

EPO yellowfin tuna  
Benchmark assessment 2020  
model: DDQ,  $h = 0.9$

Plots created using the 'r4ss' package in R

Stock Synthesis version: 3.30.15.0

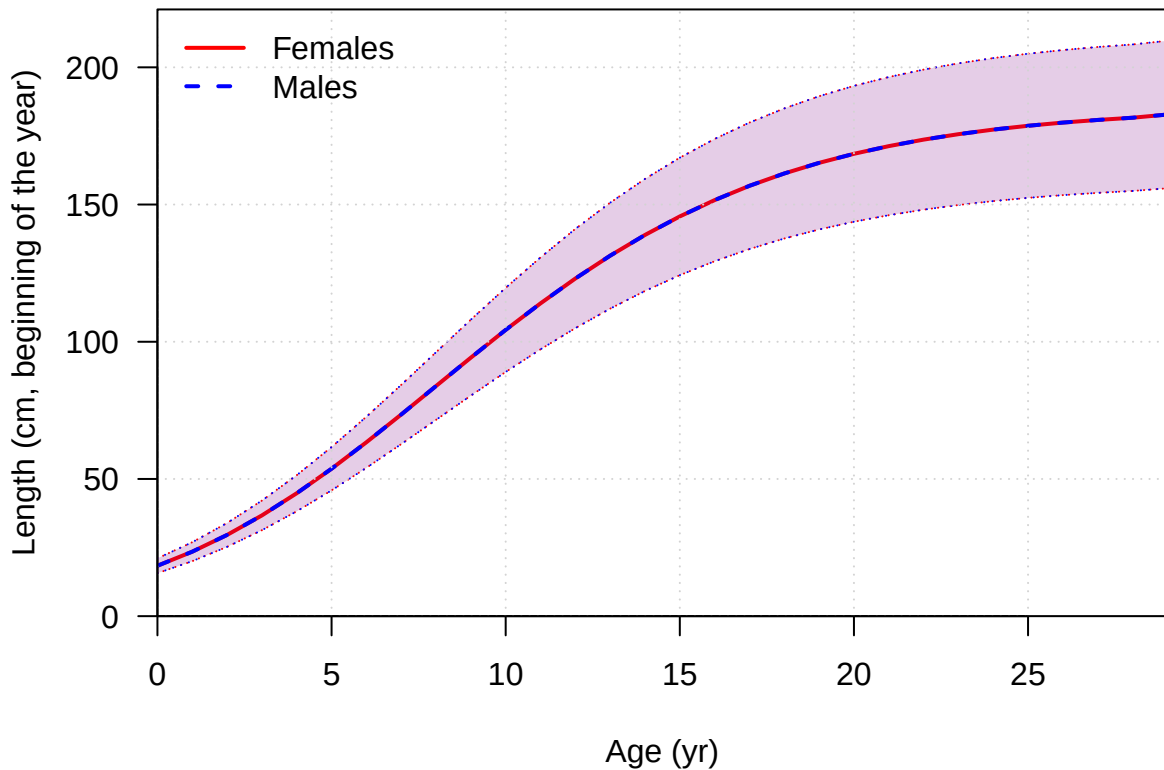
StartTime: Mon Jul 20 17:06:23 2020

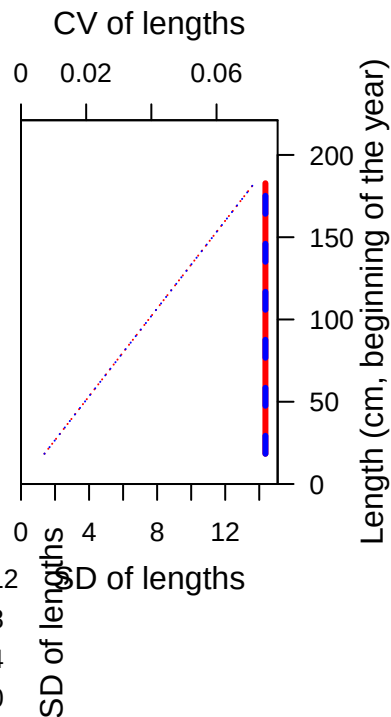
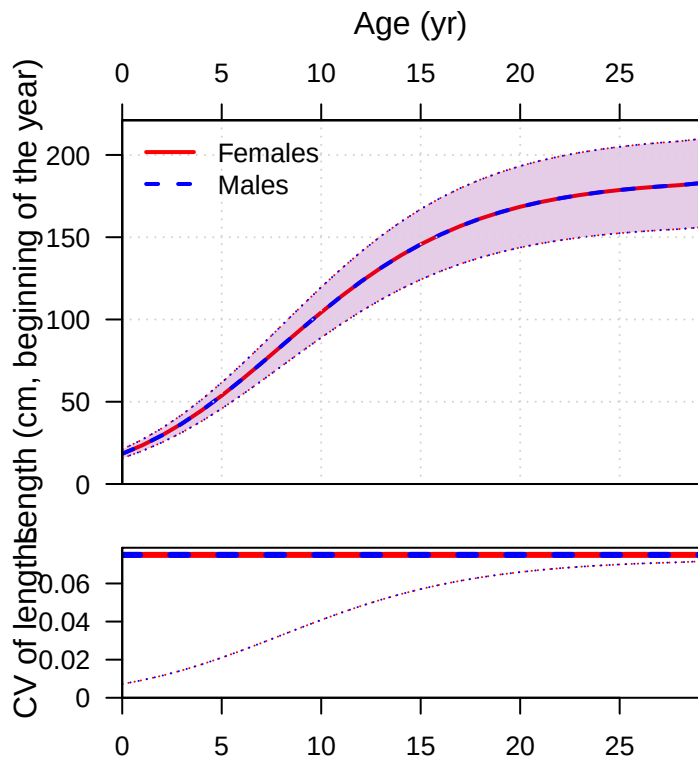
Data\_File: YFT-EPO.dat

Control\_File: YFT-EPO.ctl

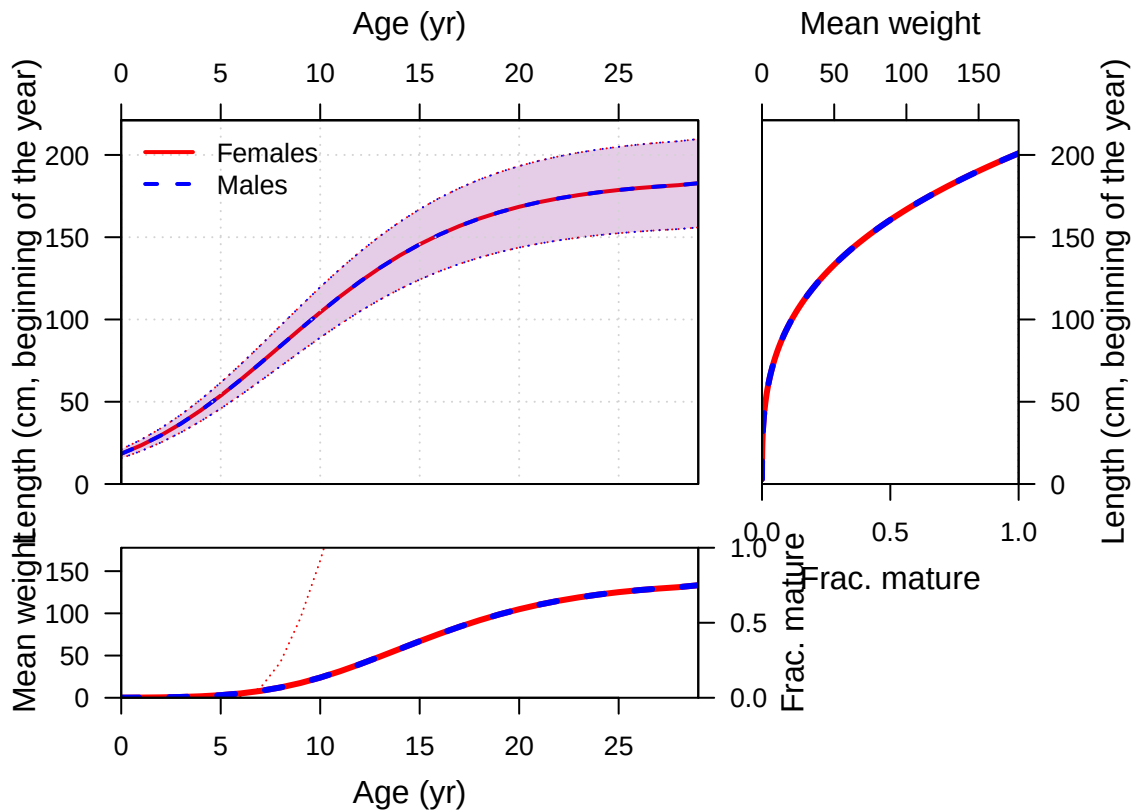


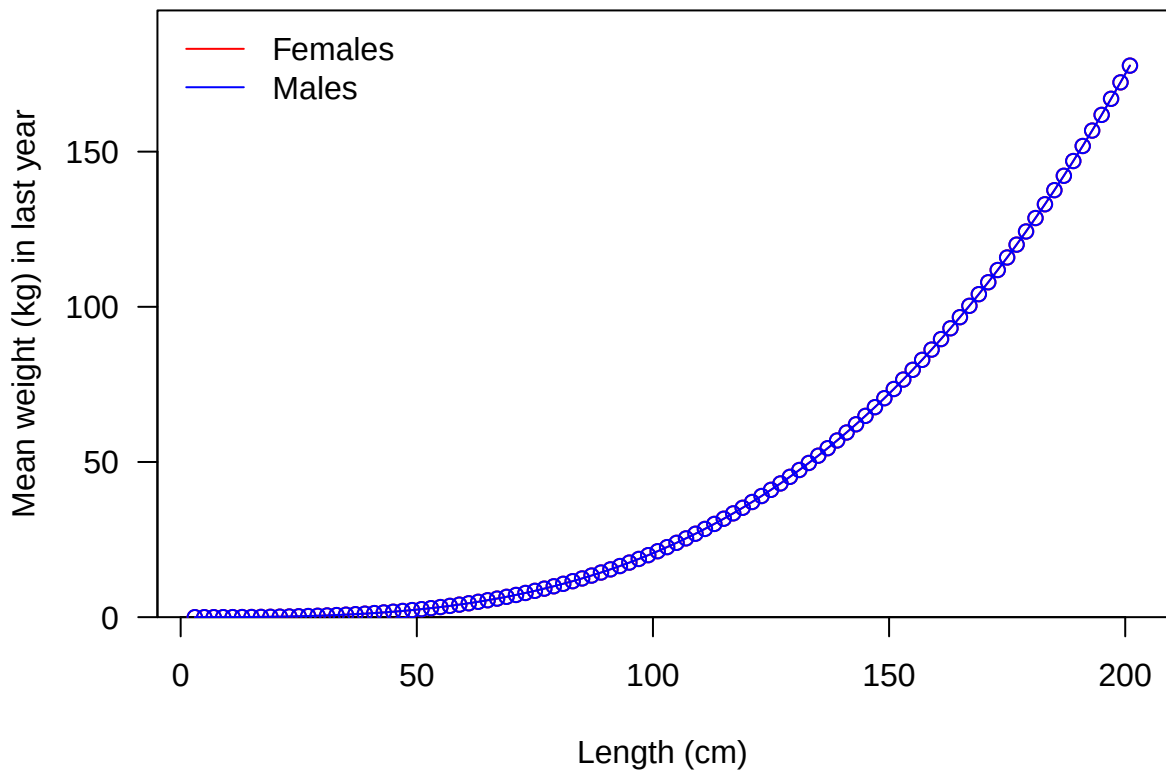
## Ending year expected growth (with 95% intervals)

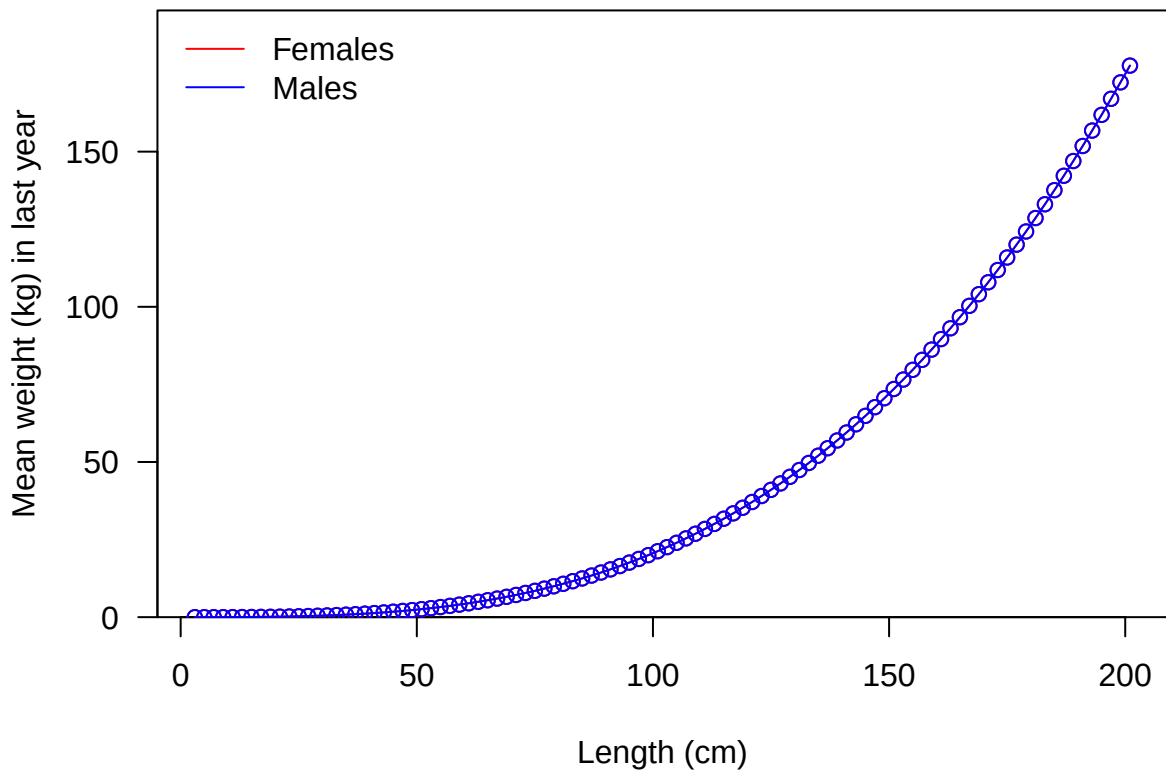


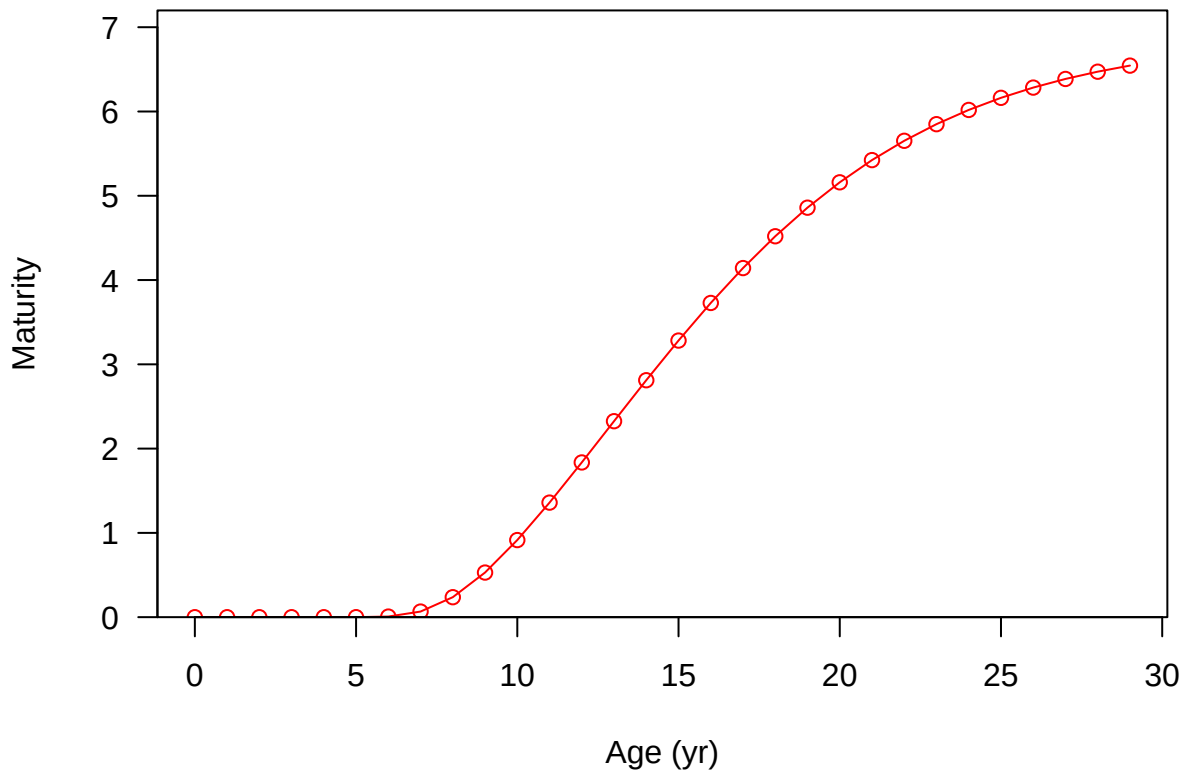


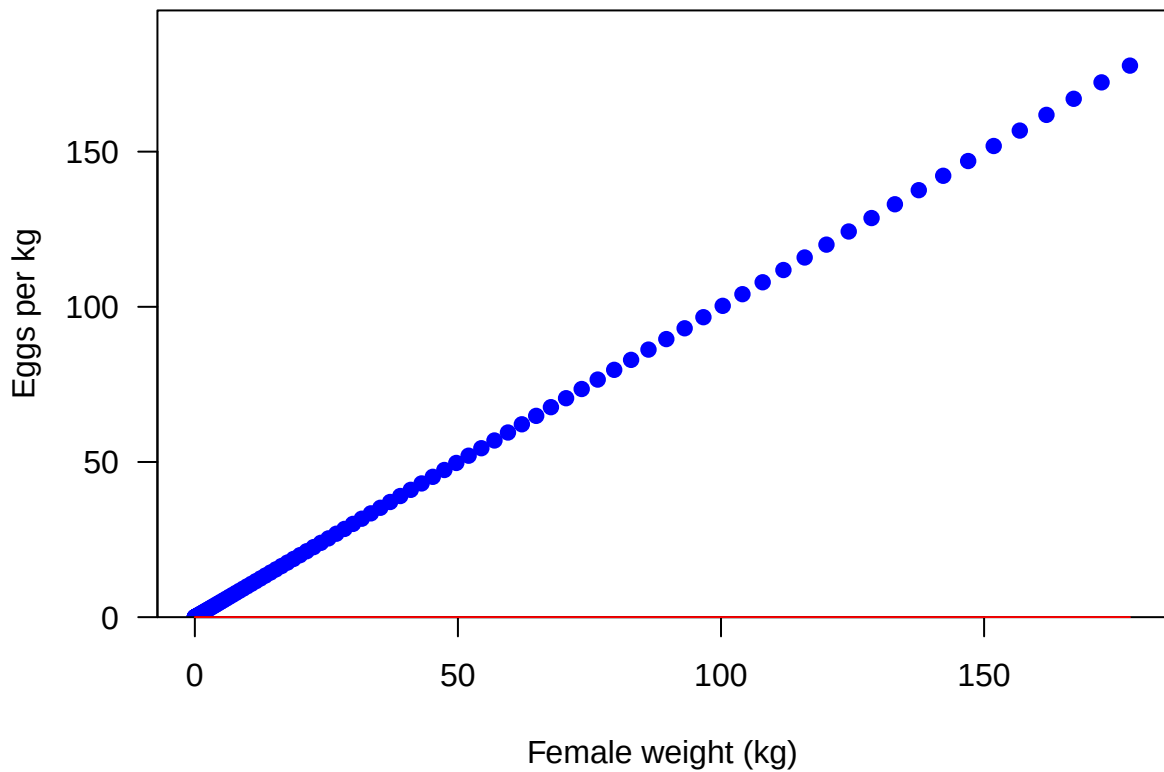
Age (yr)

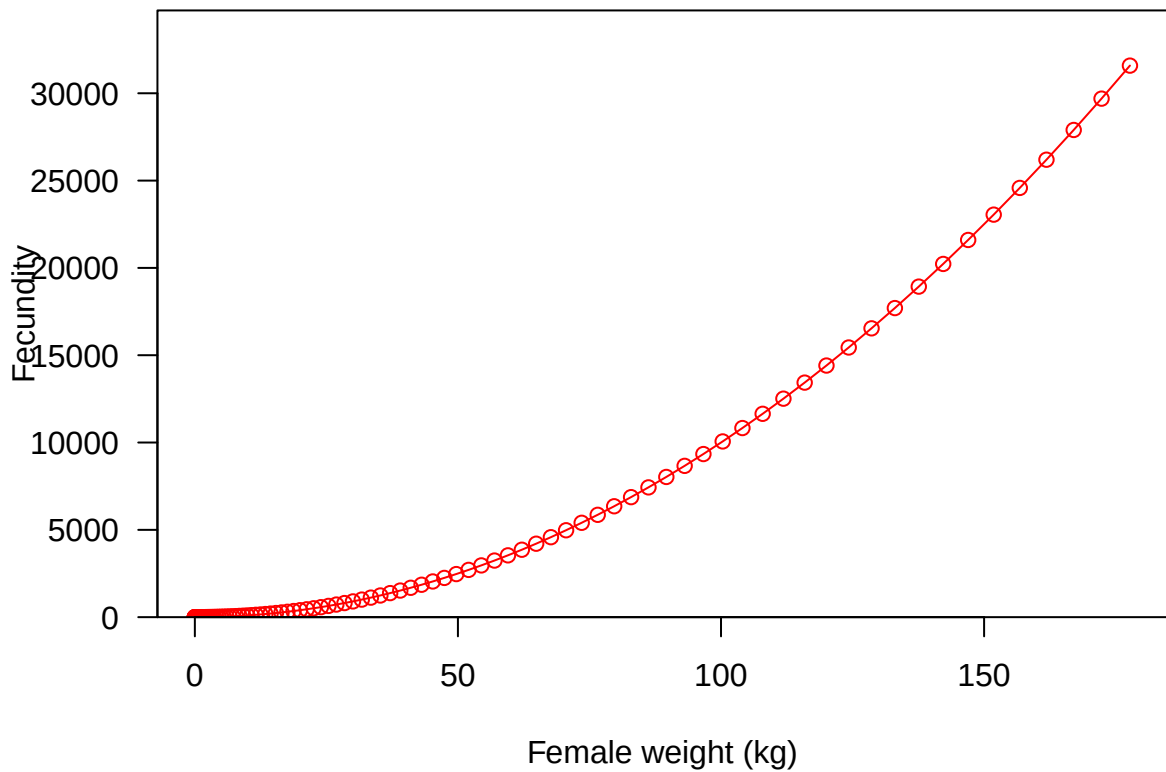




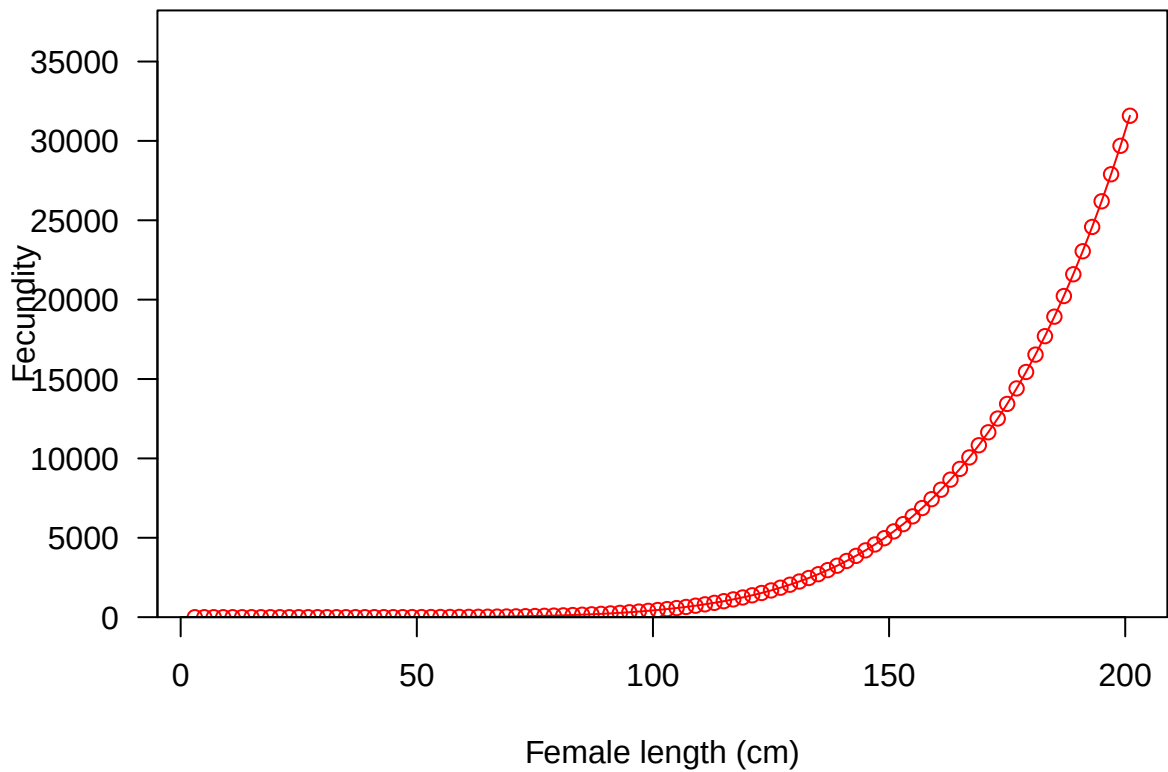


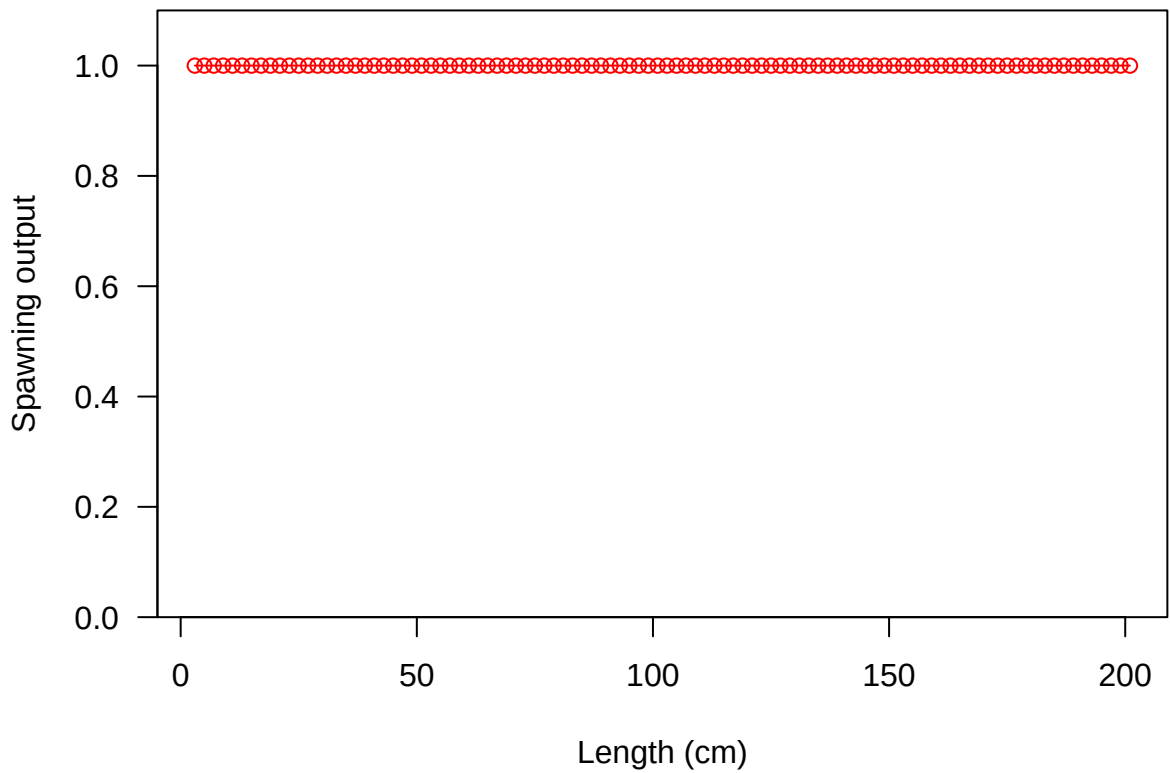


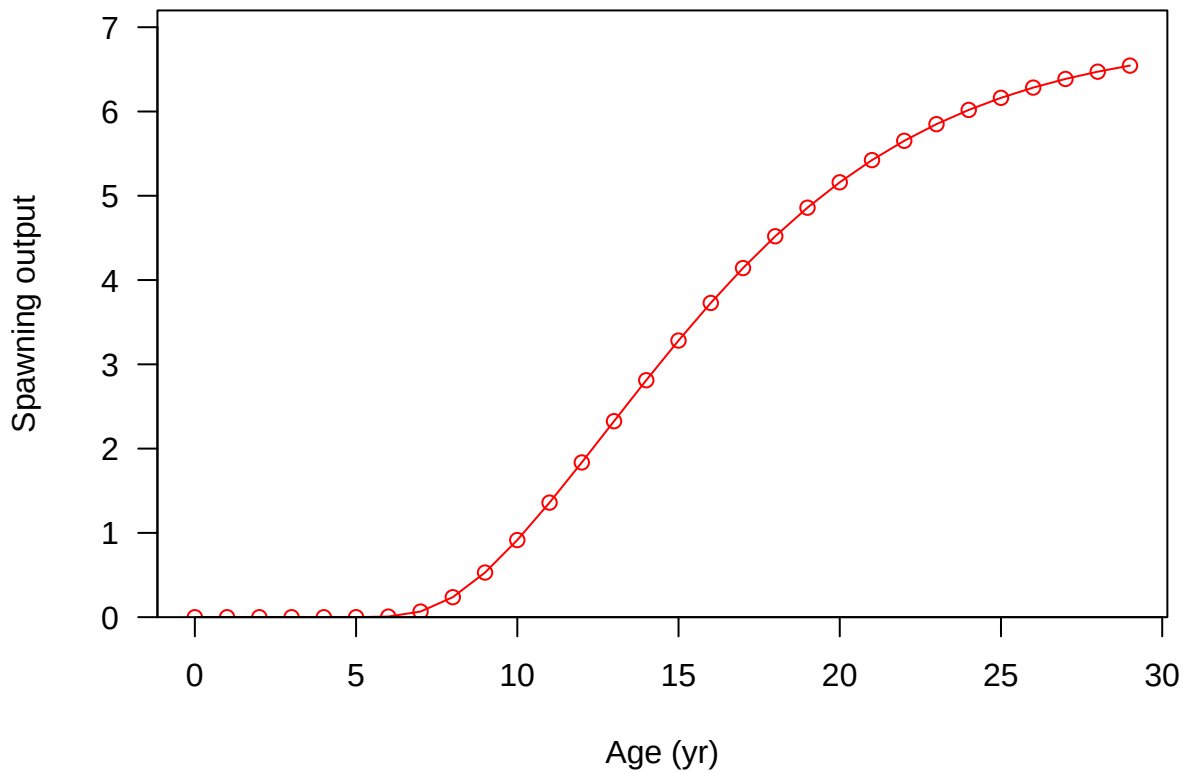




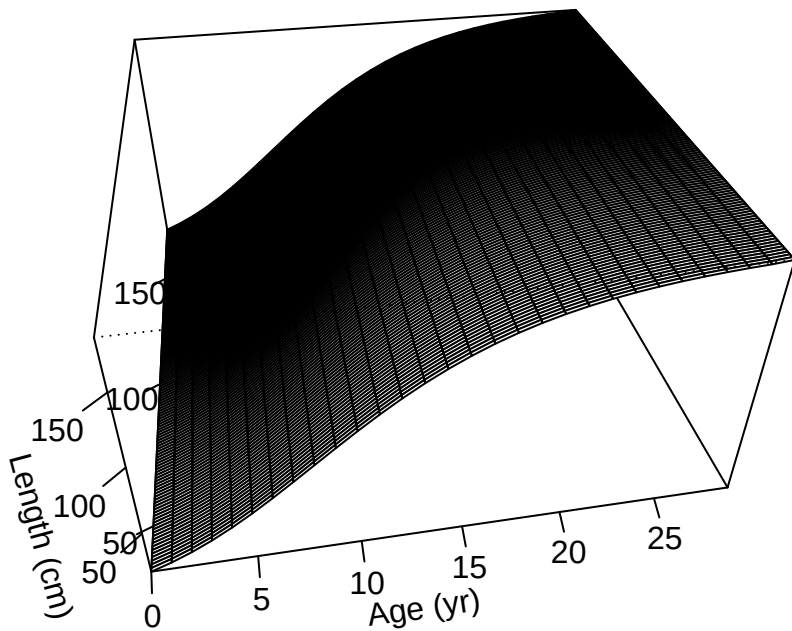




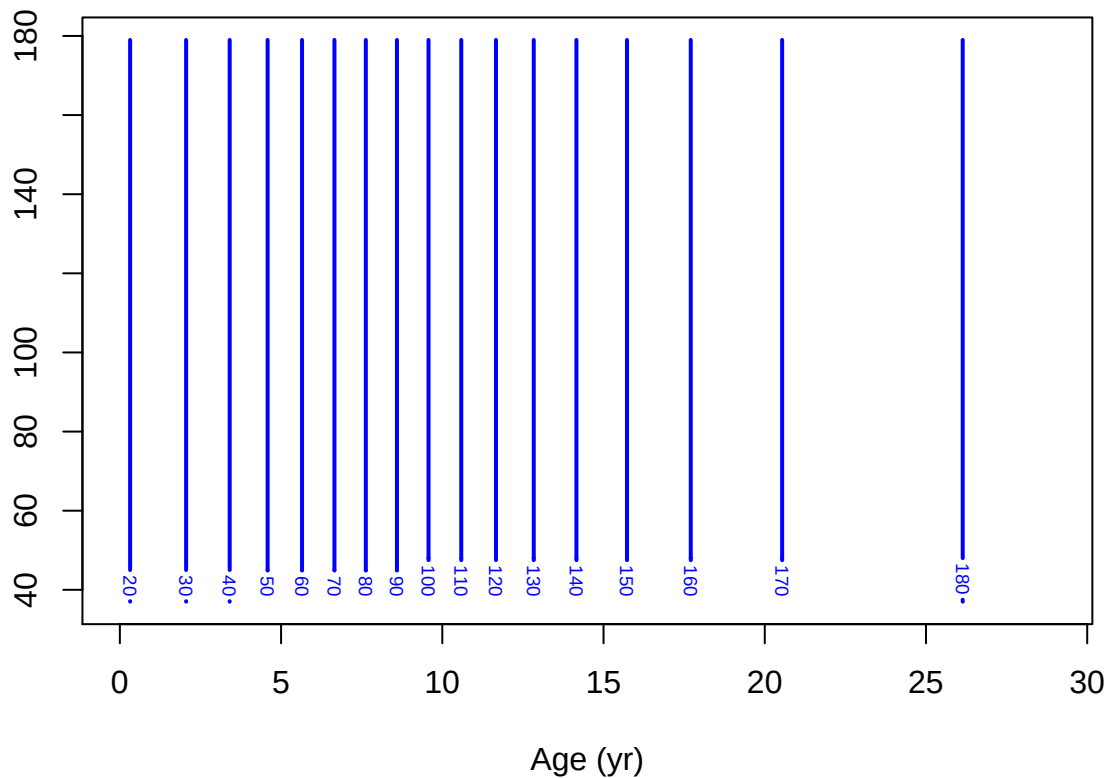




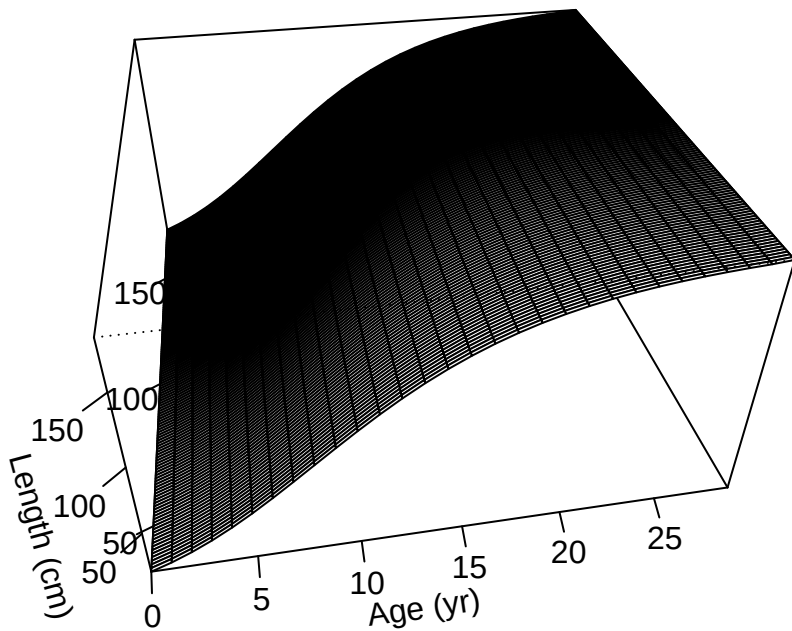
## Female time-varying growth



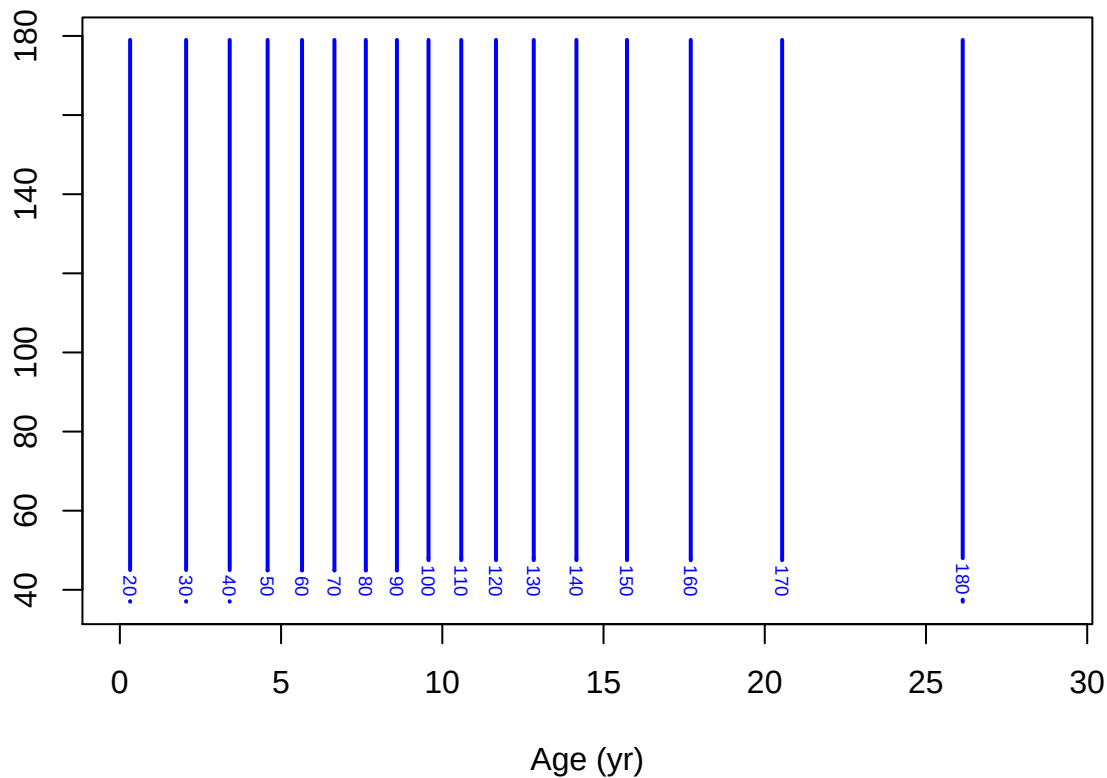
## Female time-varying growth



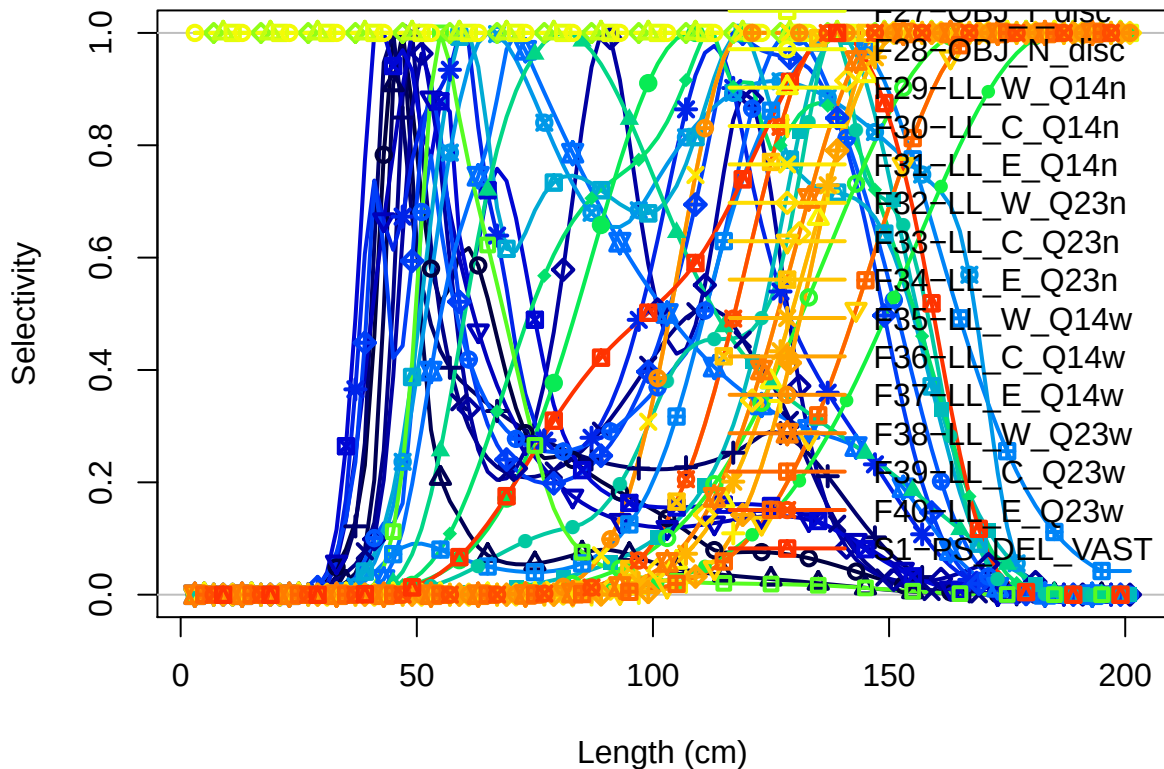
## Male time-varying growth



## Male time-varying growth

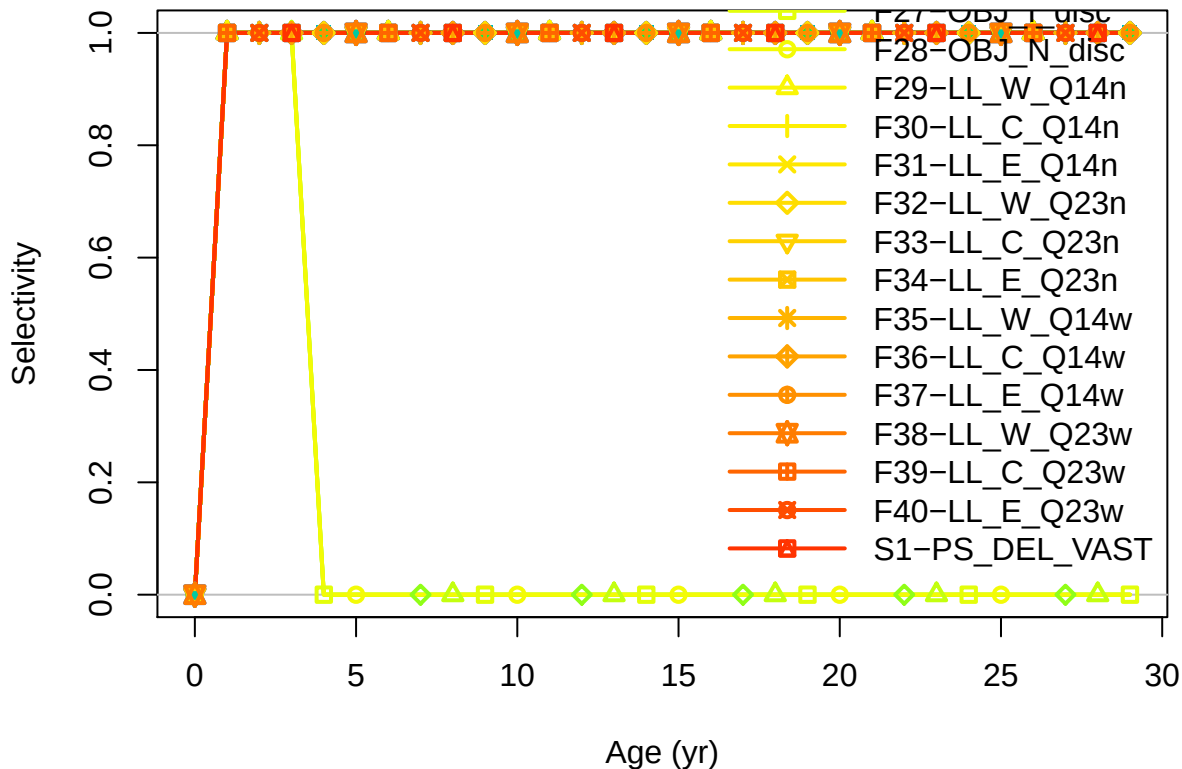


## Length-based selectivity by fleet in 180

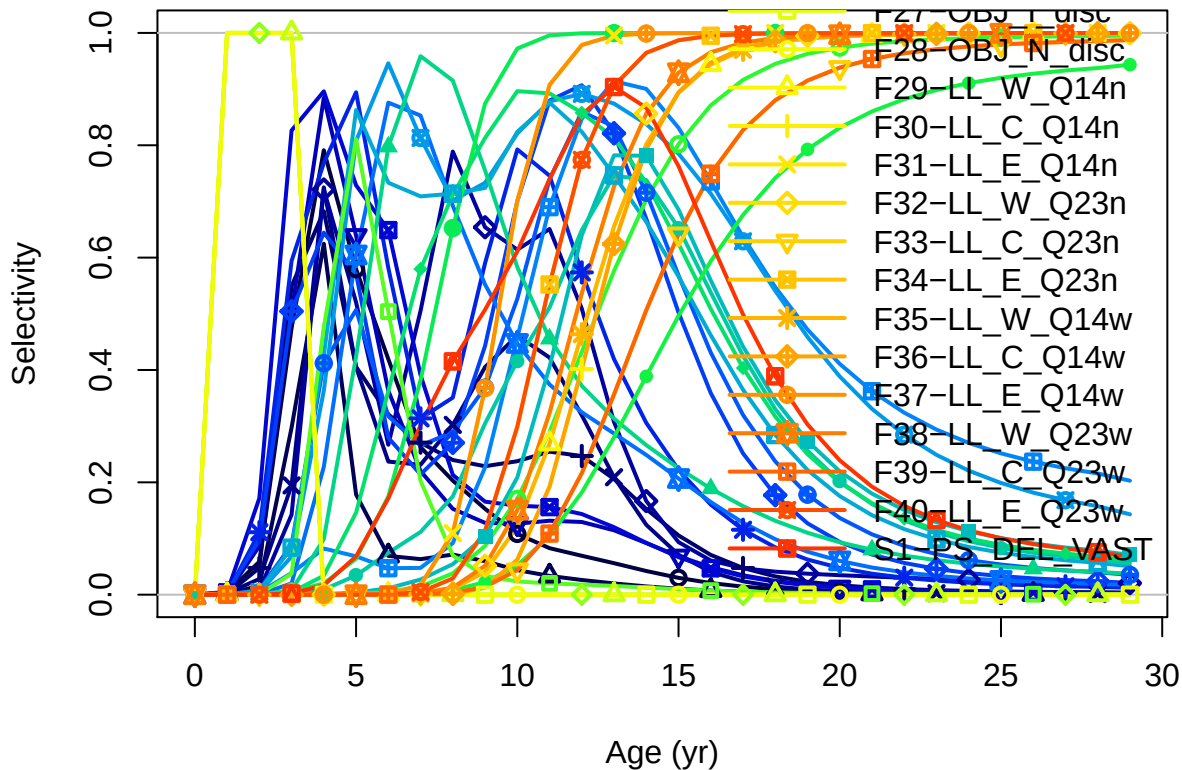




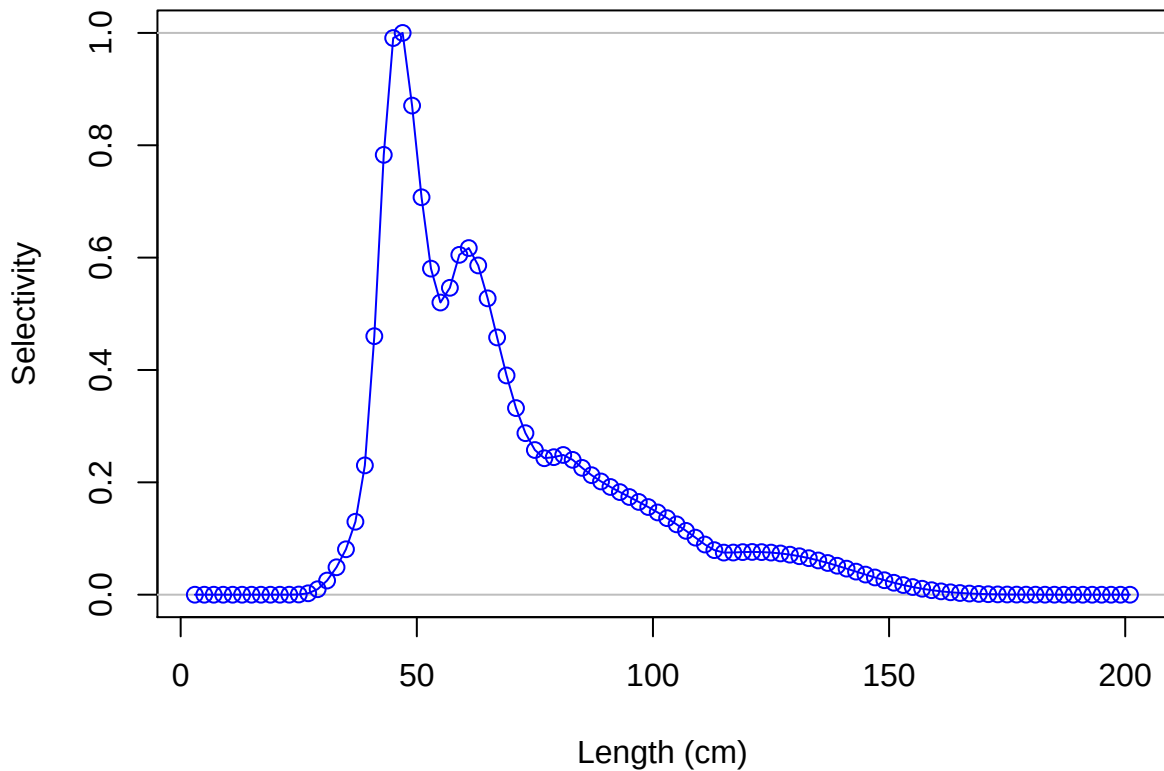
## Age-based selectivity by fleet in 180



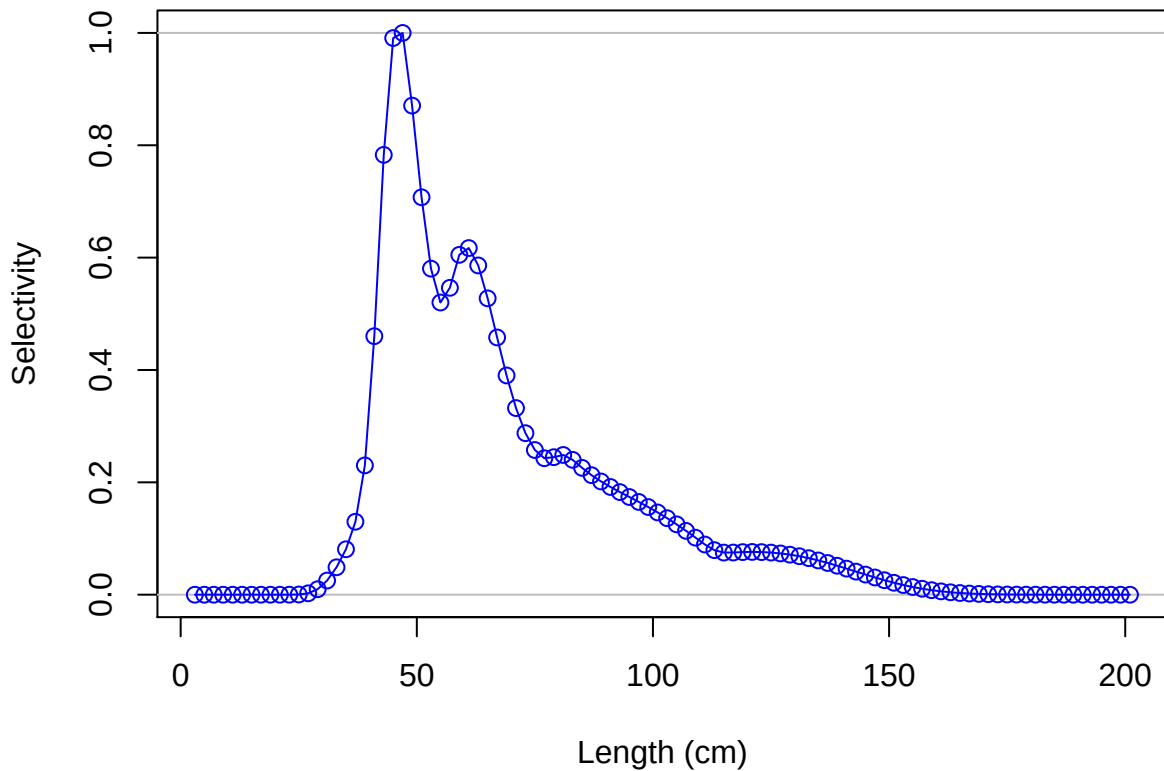
# Derived age-based from length-based selectivity by fleet in 180



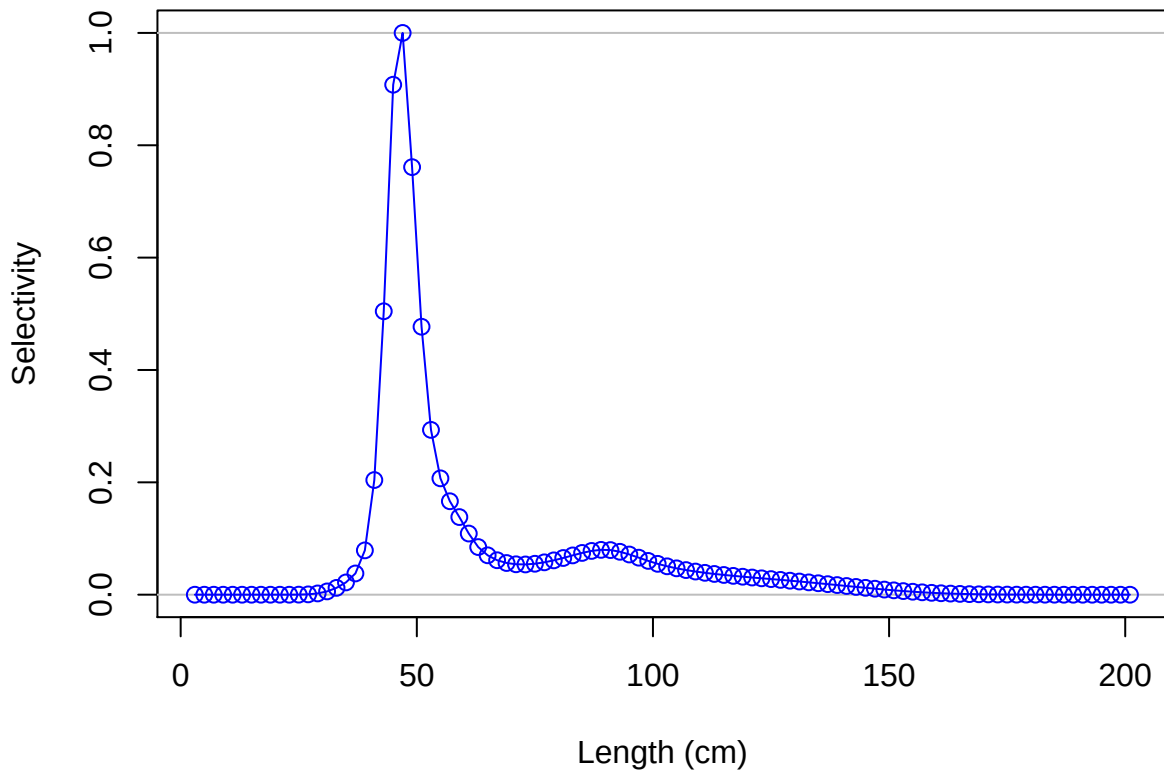
## Female ending year selectivity for F1-OBJ\_N-Q14



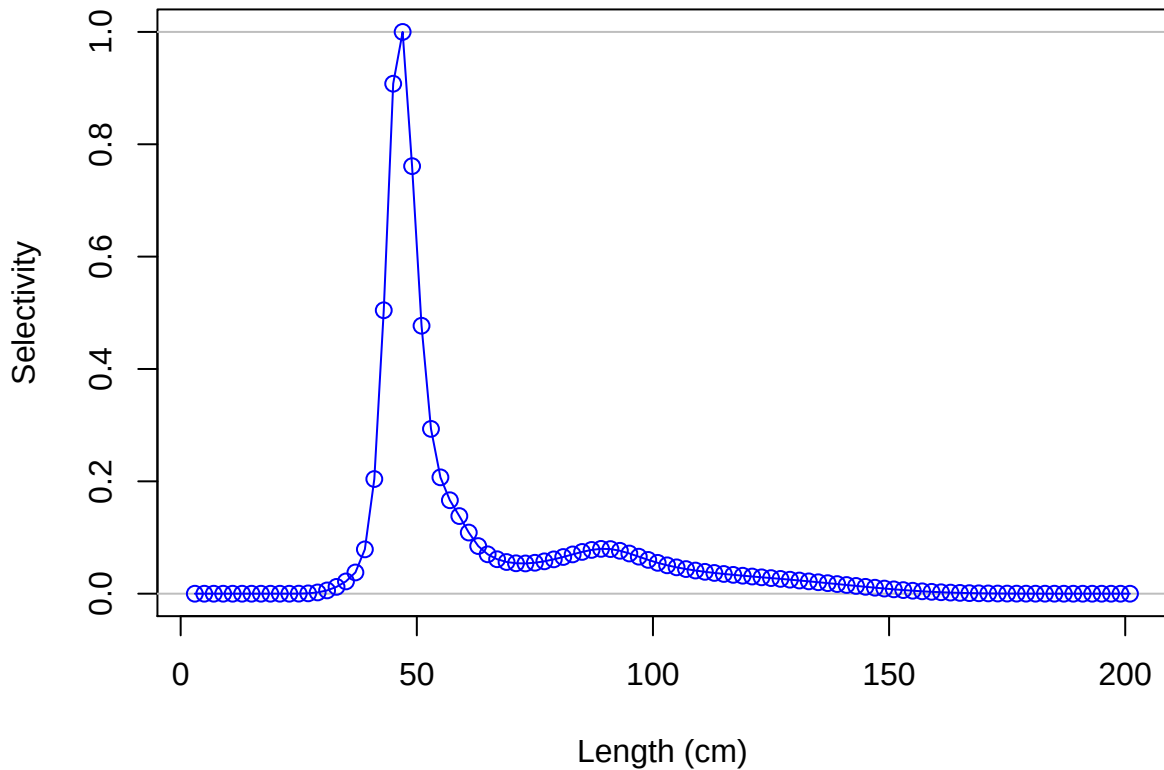
# Male ending year selectivity for F1-OBJ\_N-Q14



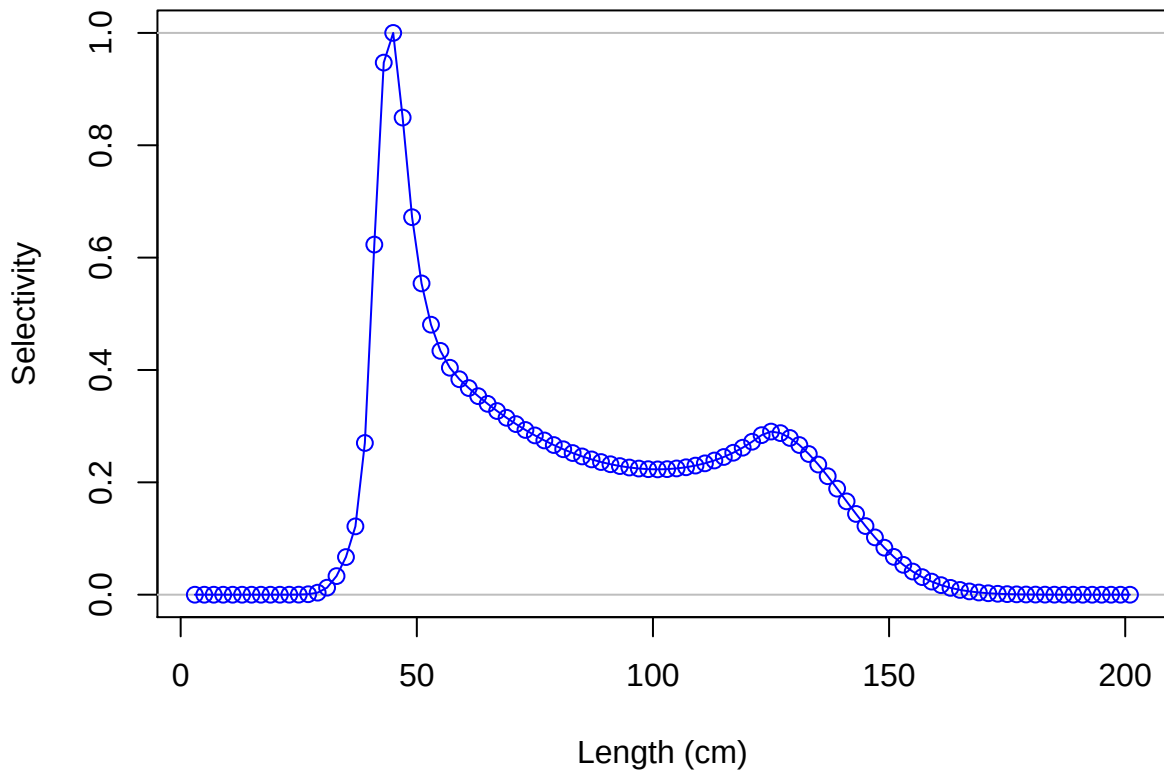
## Female ending year selectivity for F2-OBJ\_Nc\_Q14



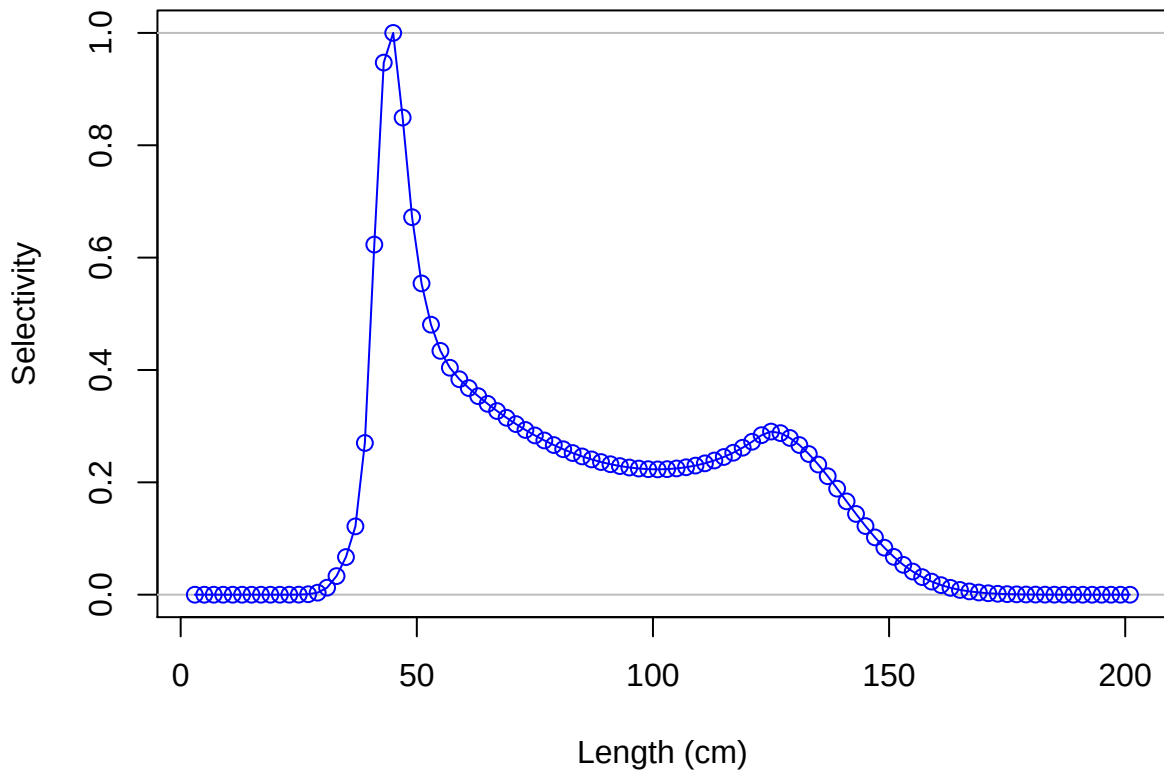
# Male ending year selectivity for F2-OBJ\_Nc\_Q14



**Female ending year selectivity for F3-OBJ\_C\_Q14**

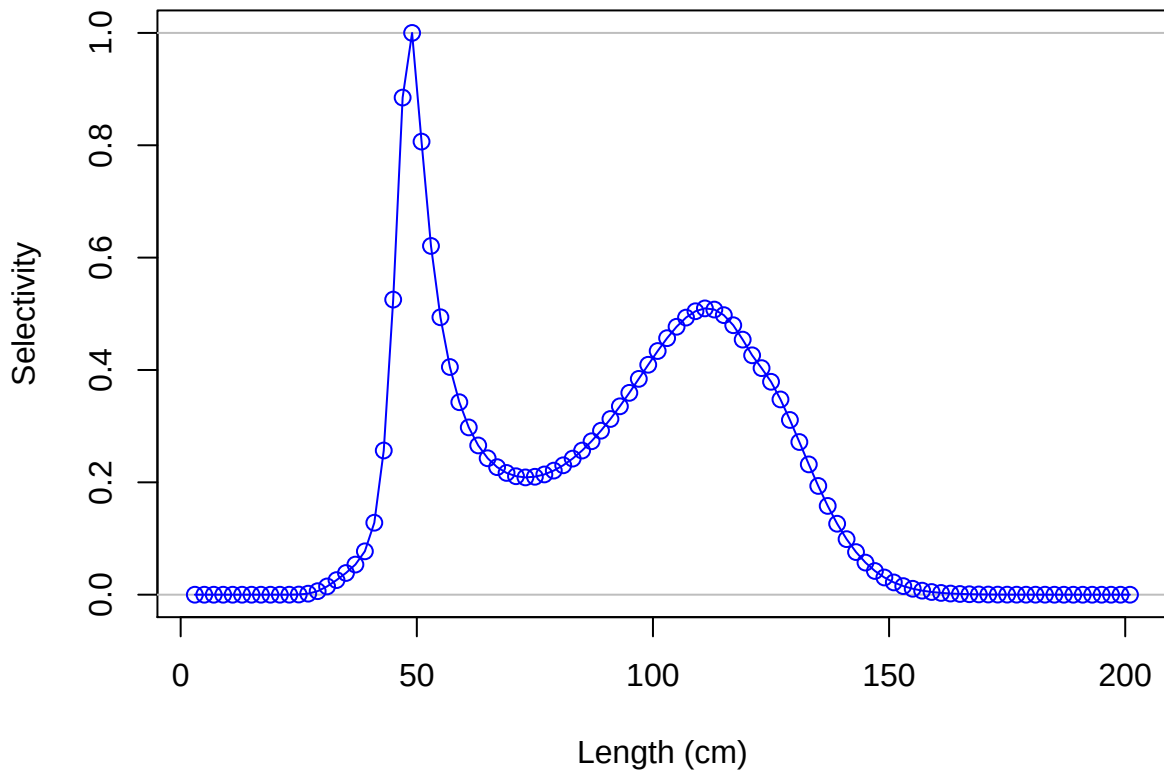


Male ending year selectivity for F3-OBJ\_C\_Q14

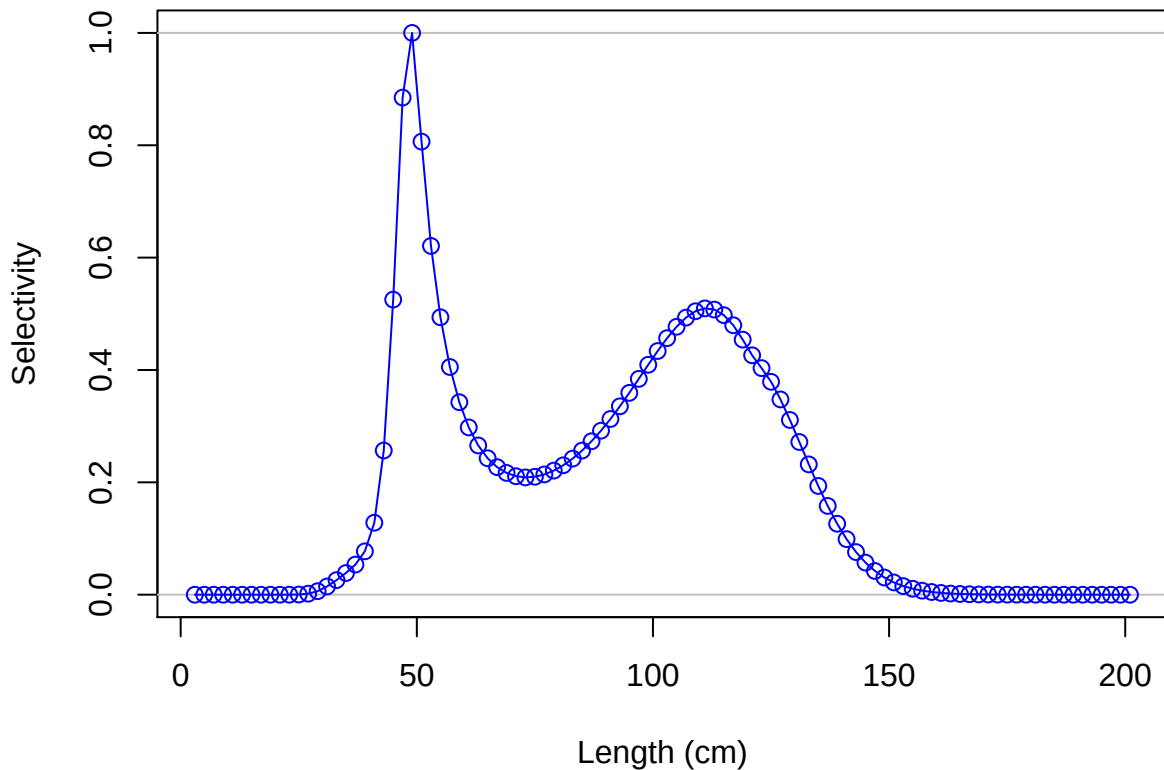




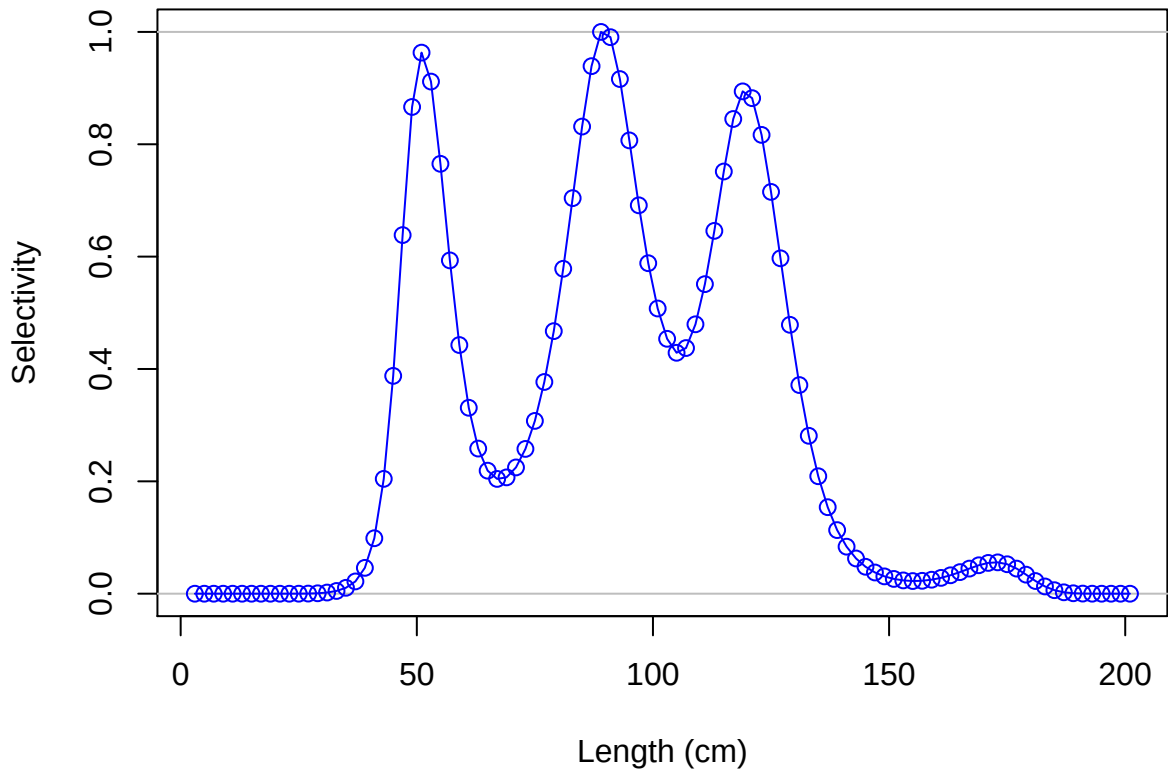
**Female ending year selectivity for F4-OBJ\_Cc\_Q14**



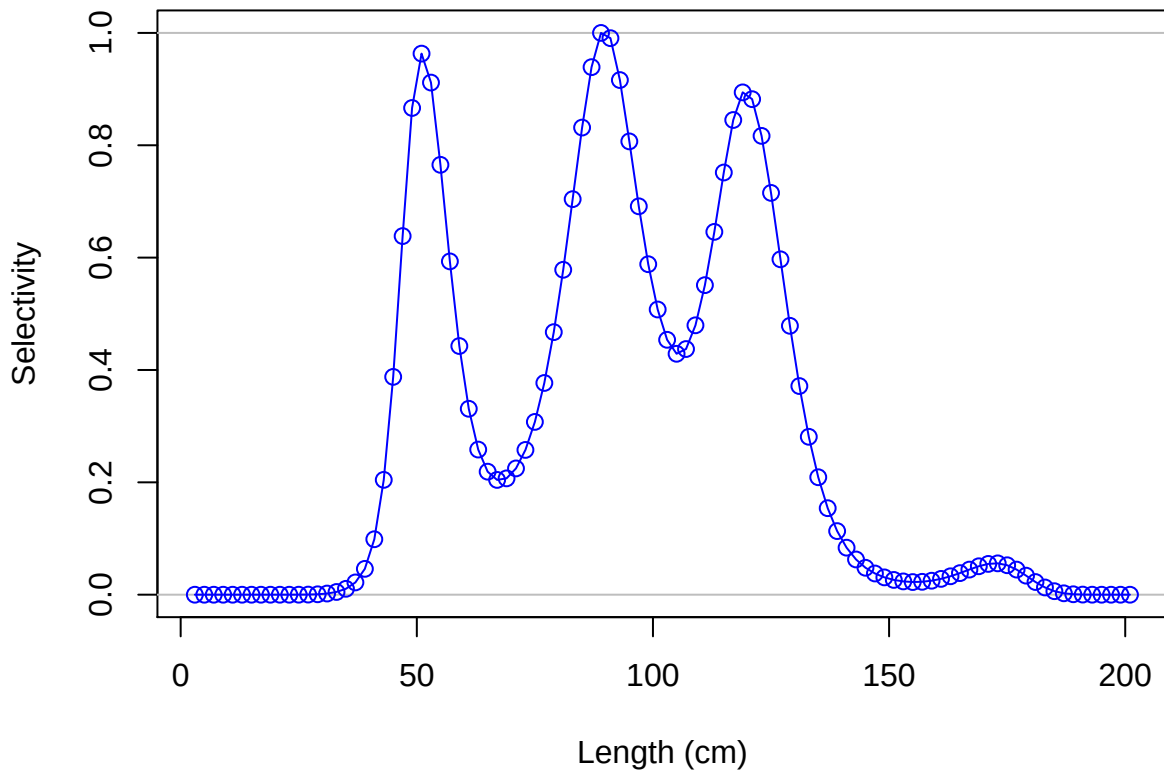
**Male ending year selectivity for F4-OBJ\_Cc\_Q14**



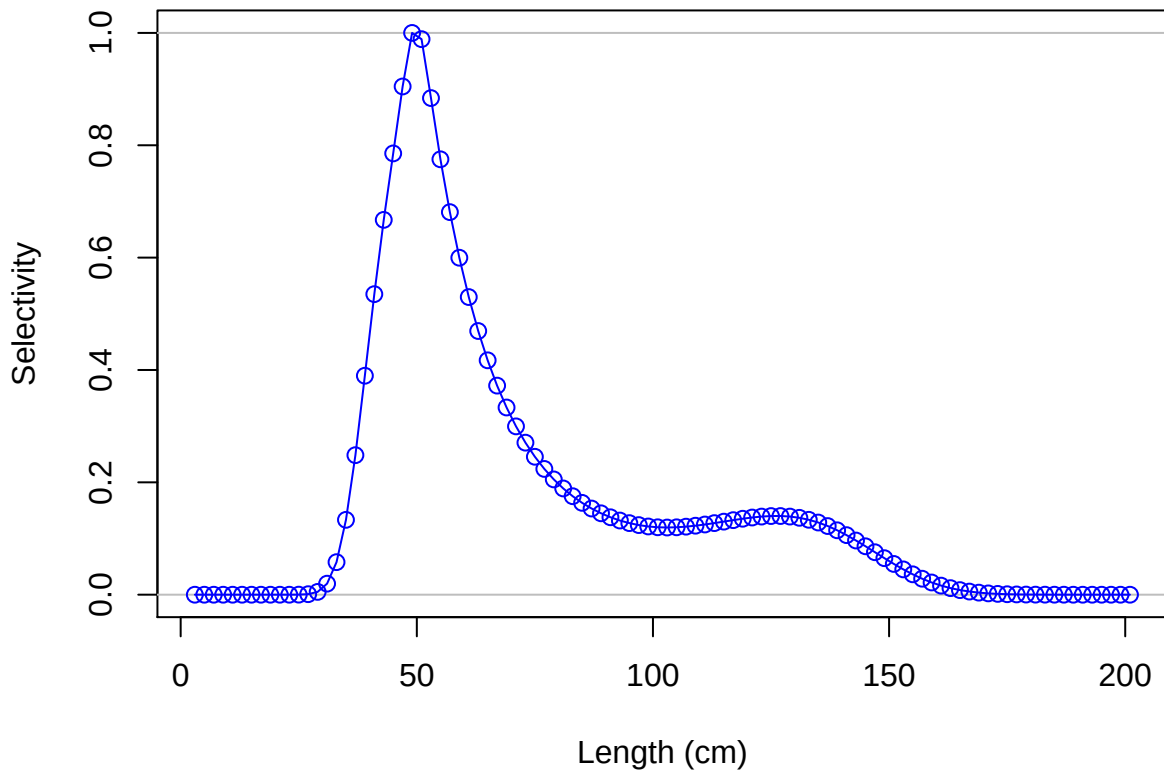
## Female ending year selectivity for F5-OBJ\_S\_Q14



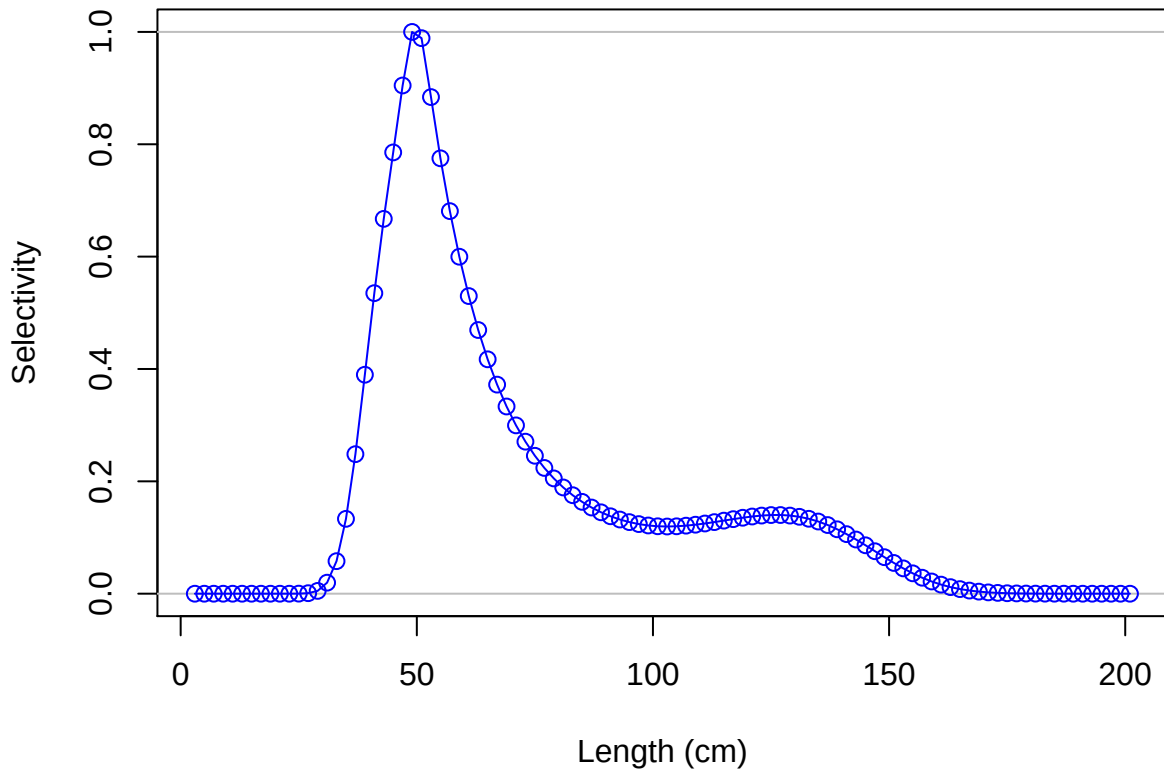
# Male ending year selectivity for F5-OBJ\_S\_Q14



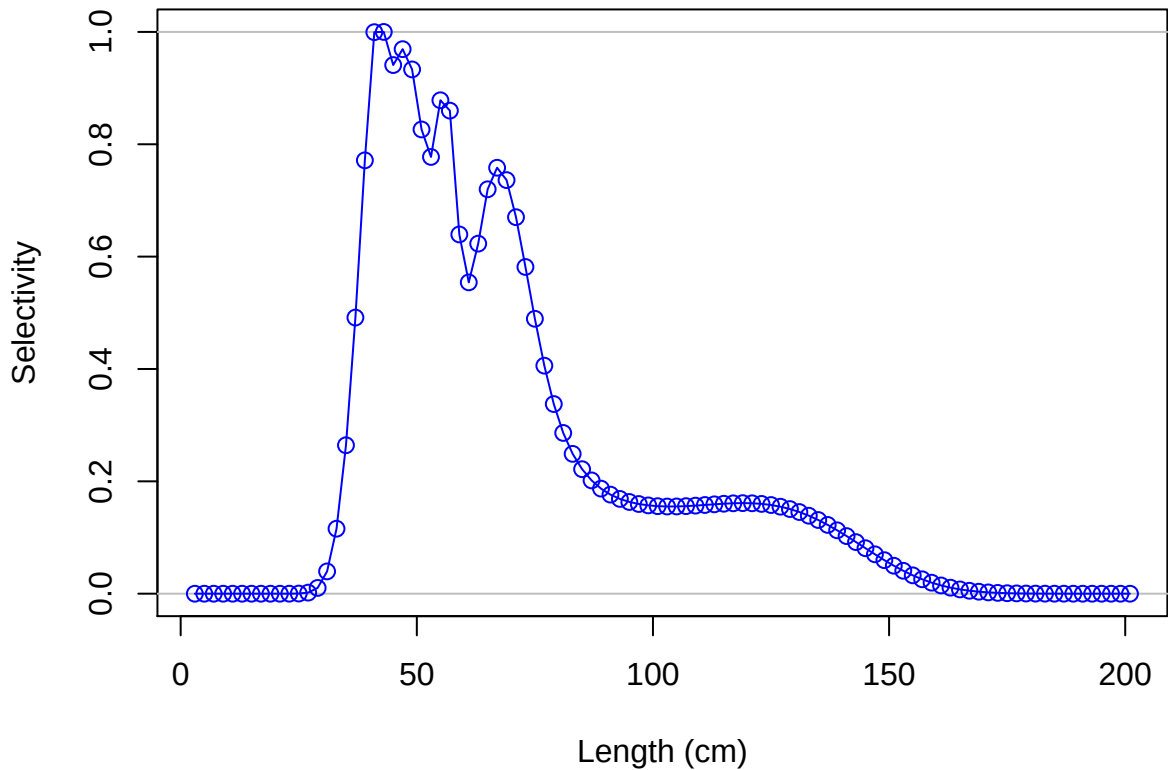
## Female ending year selectivity for F6-OBJ\_N\_Q23



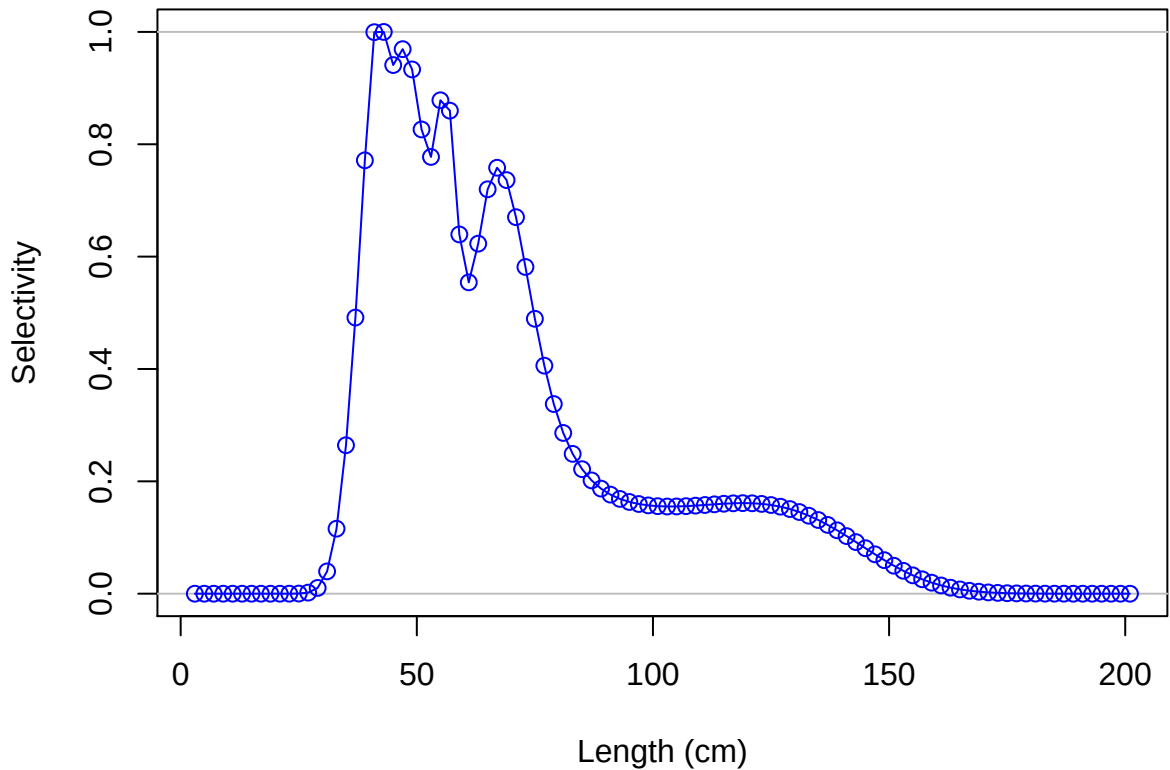
# Male ending year selectivity for F6-OBJ\_N\_Q23



## Female ending year selectivity for F7-OBJ\_Nc\_Q23

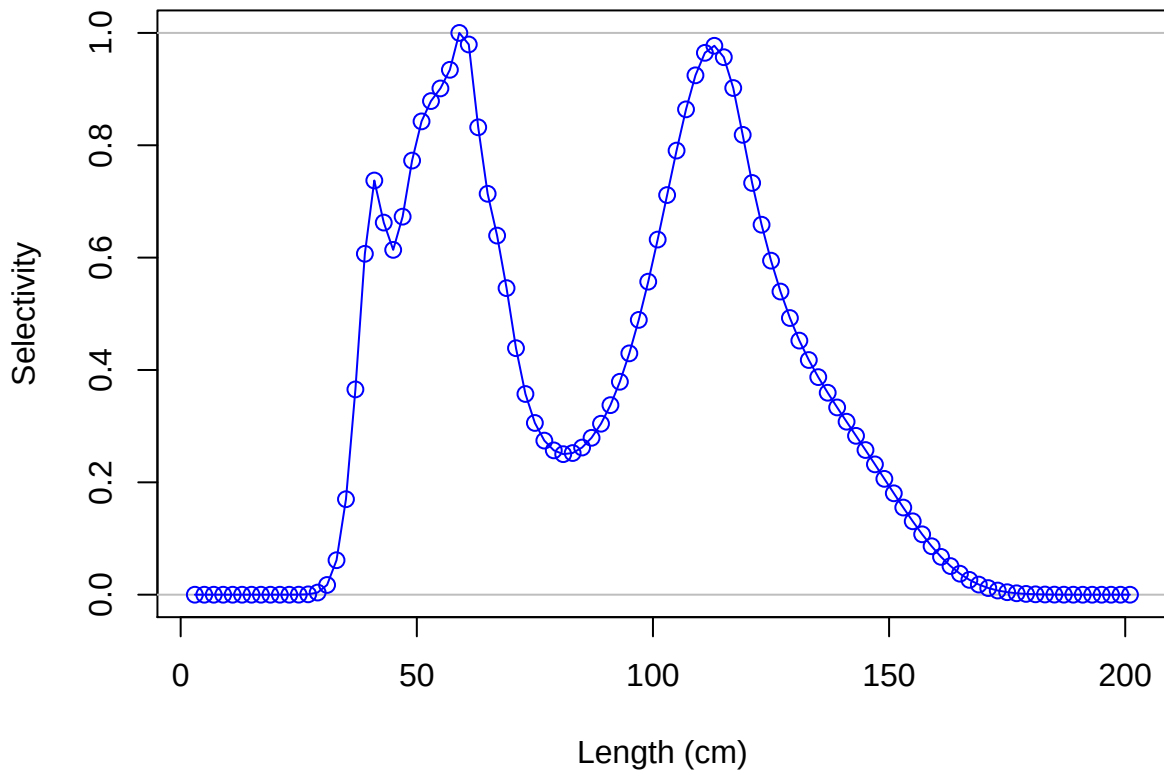


# Male ending year selectivity for F7-OBJ\_Nc\_Q23

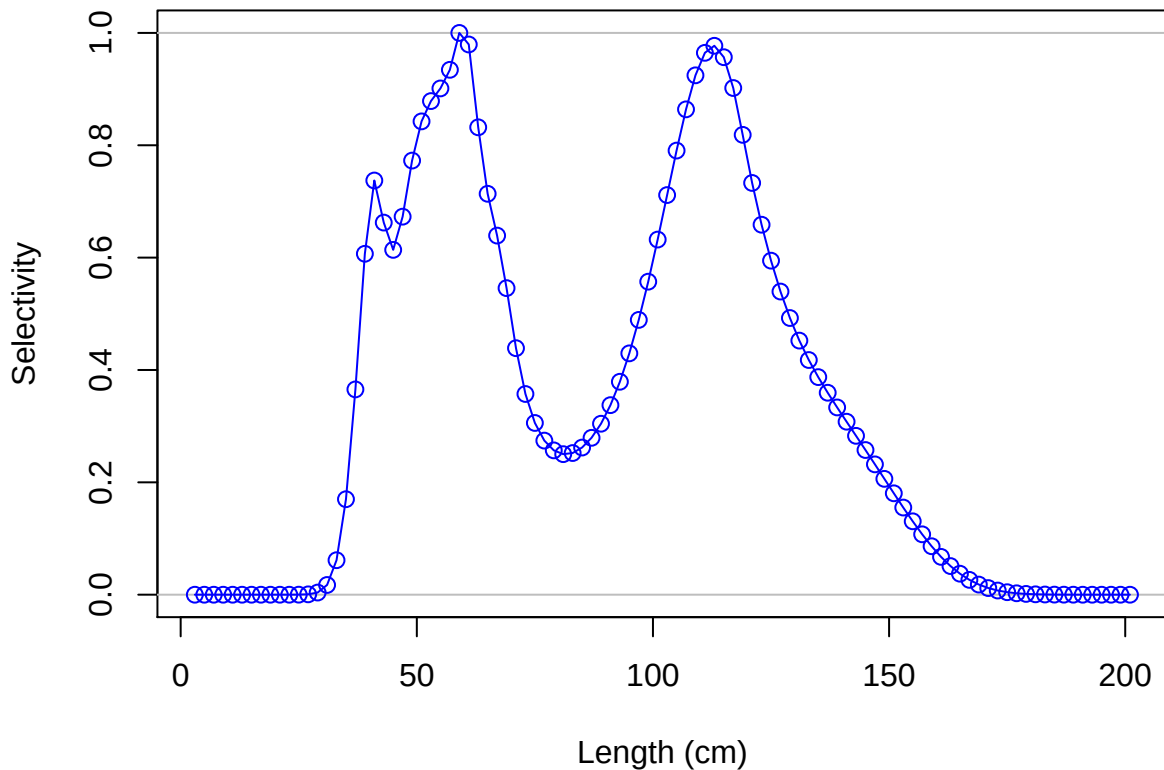




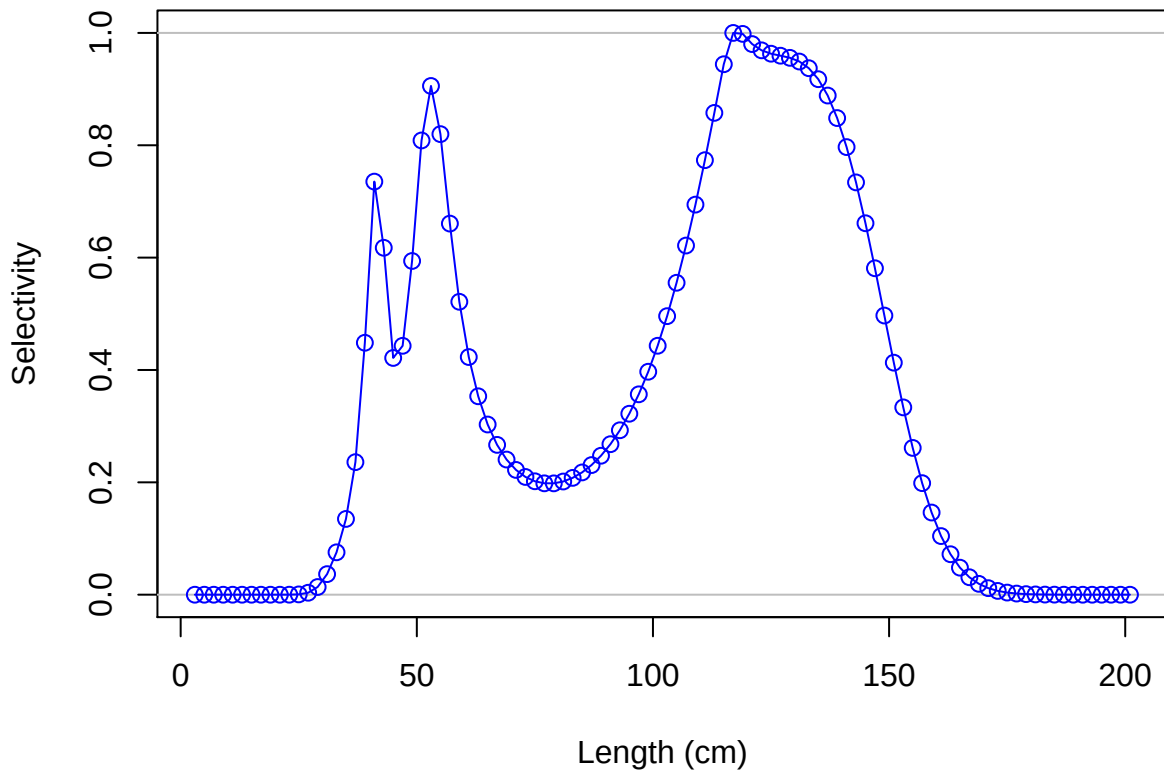
## Female ending year selectivity for F8-OBJ\_C\_Q23



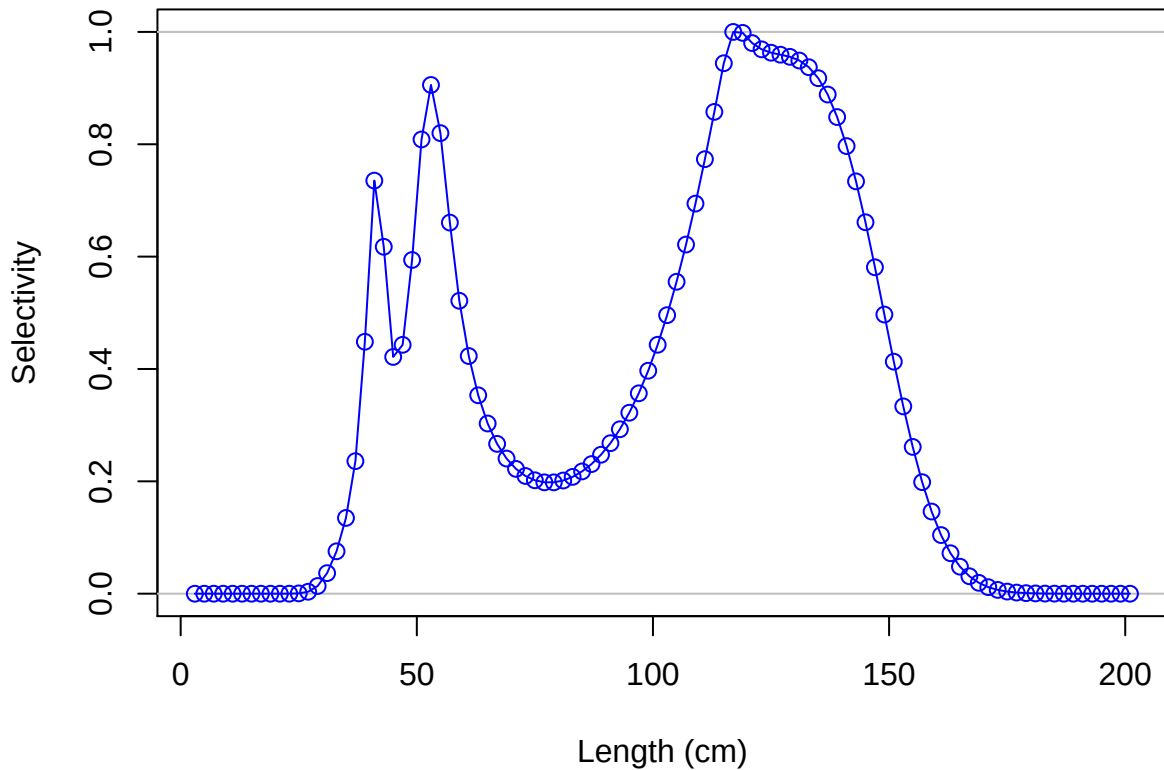
# Male ending year selectivity for F8-OBJ\_C\_Q23



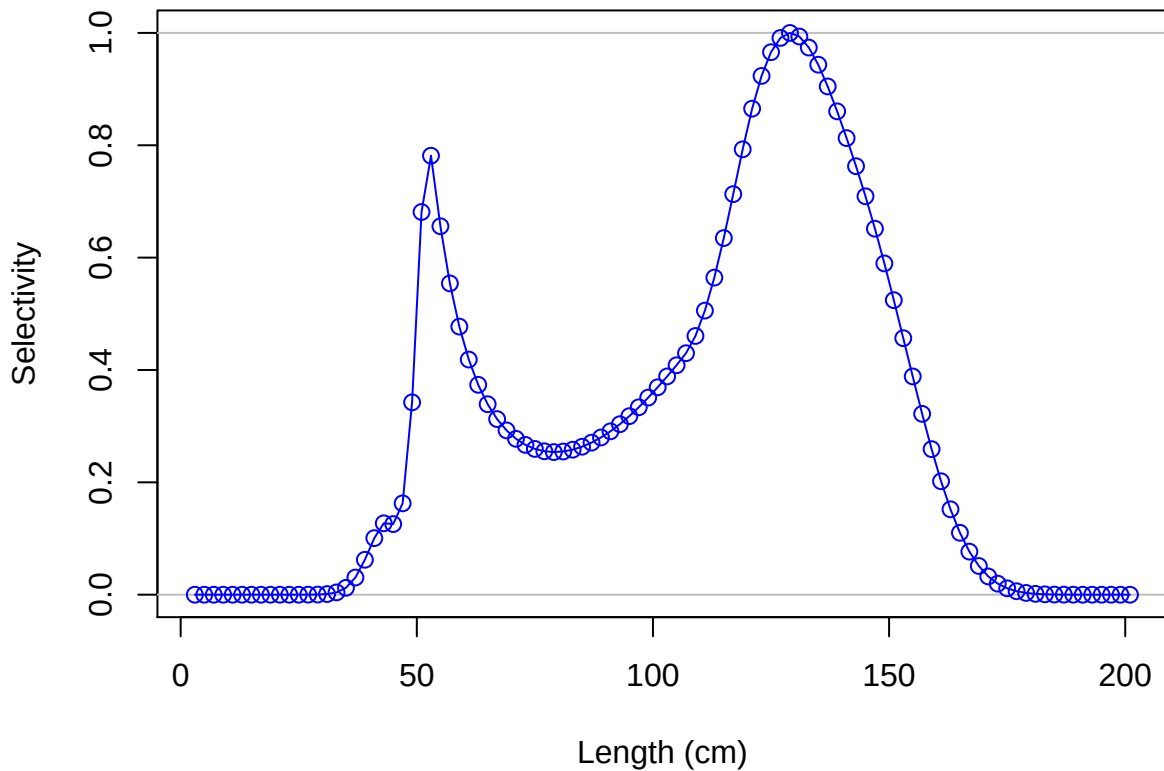
## Female ending year selectivity for F9-OBJ\_Cc\_Q23



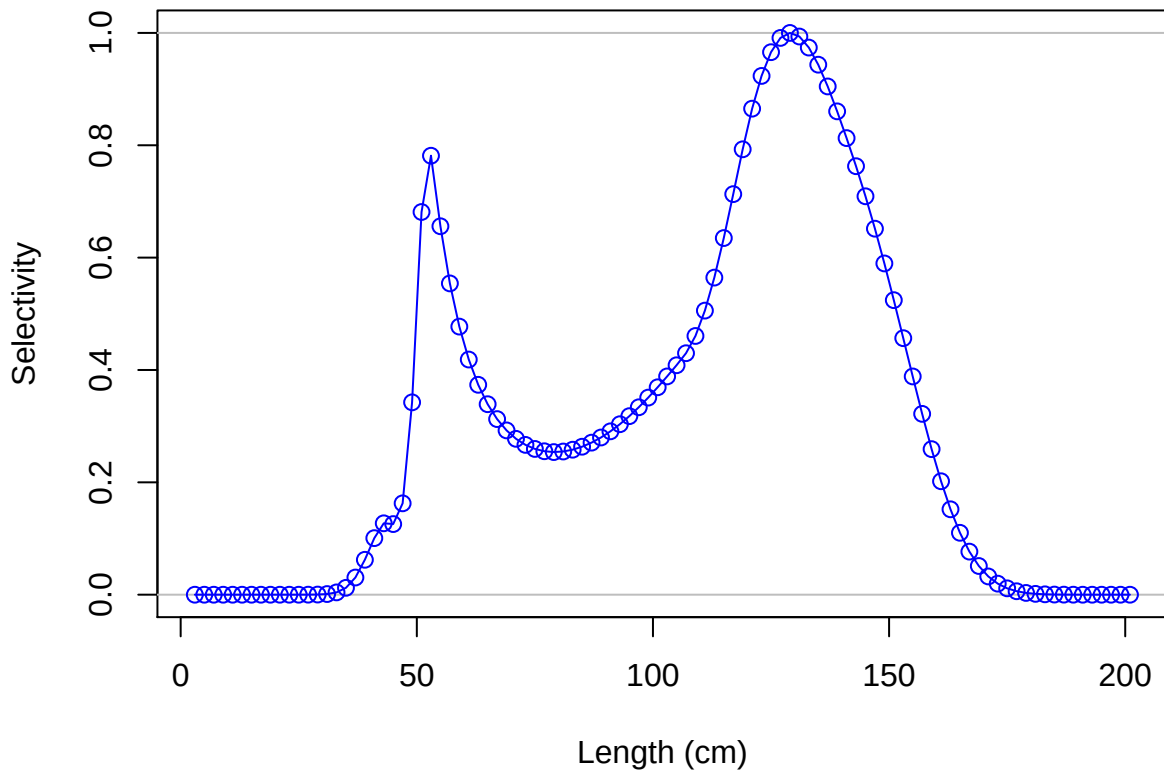
# Male ending year selectivity for F9-OBJ\_Cc\_Q23



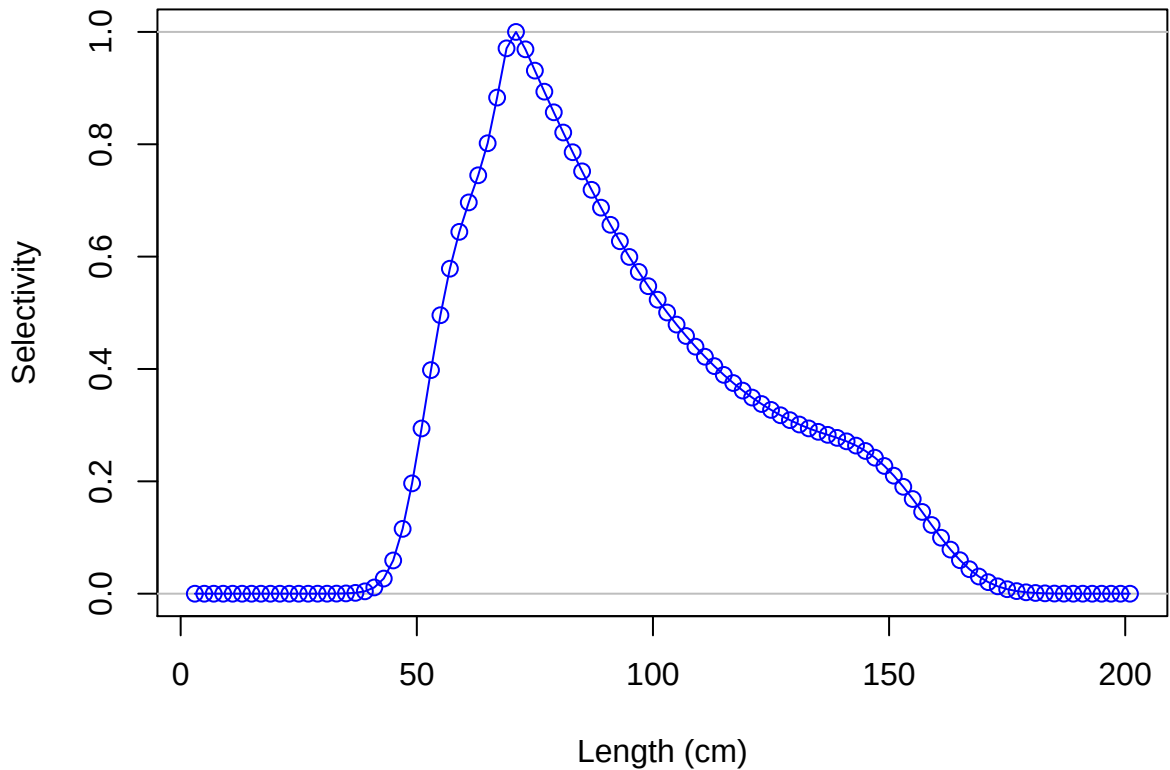
## Female ending year selectivity for F10-OBJ\_S\_Q23



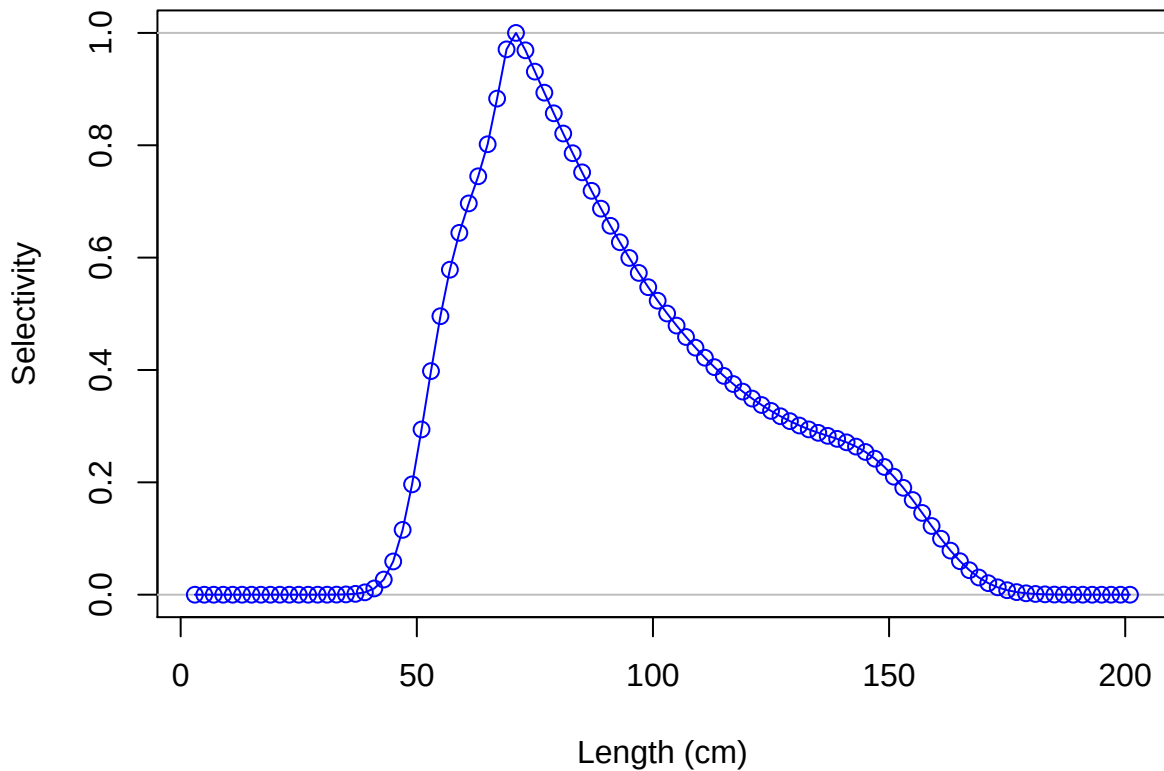
# Male ending year selectivity for F10-OBJ\_S\_Q23



## Female ending year selectivity for F11-NOA\_N

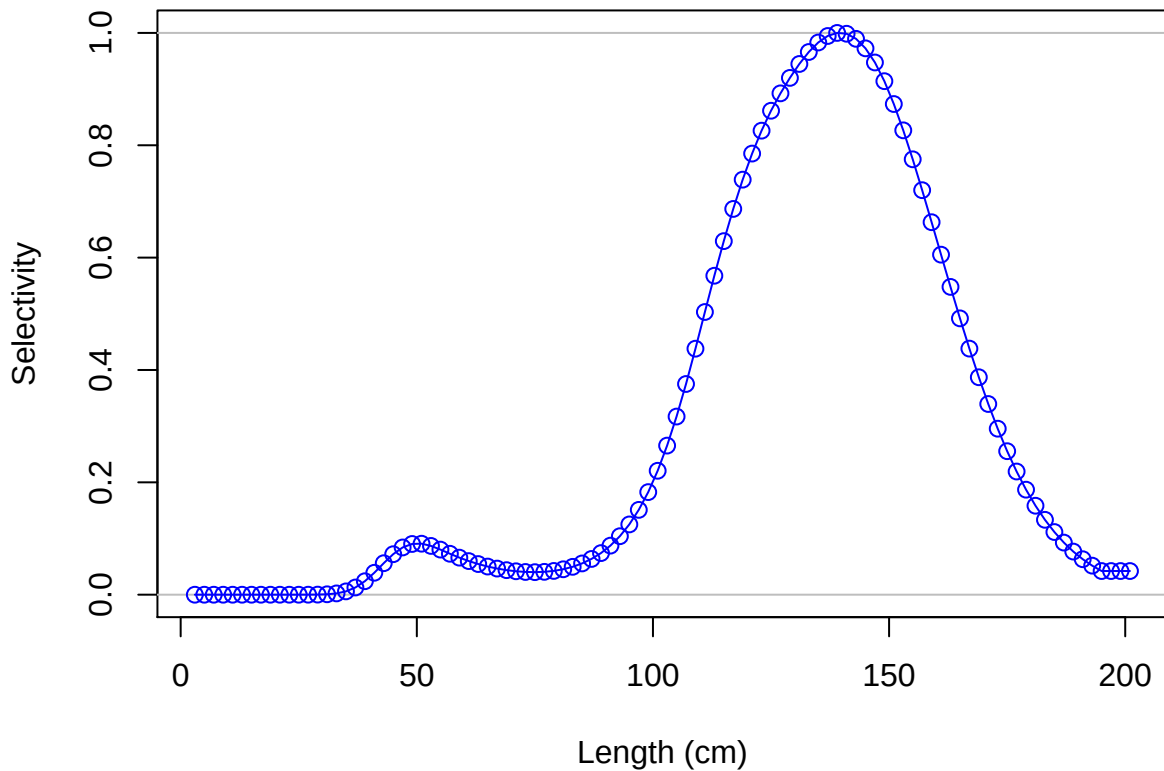


# Male ending year selectivity for F11-NOA\_N

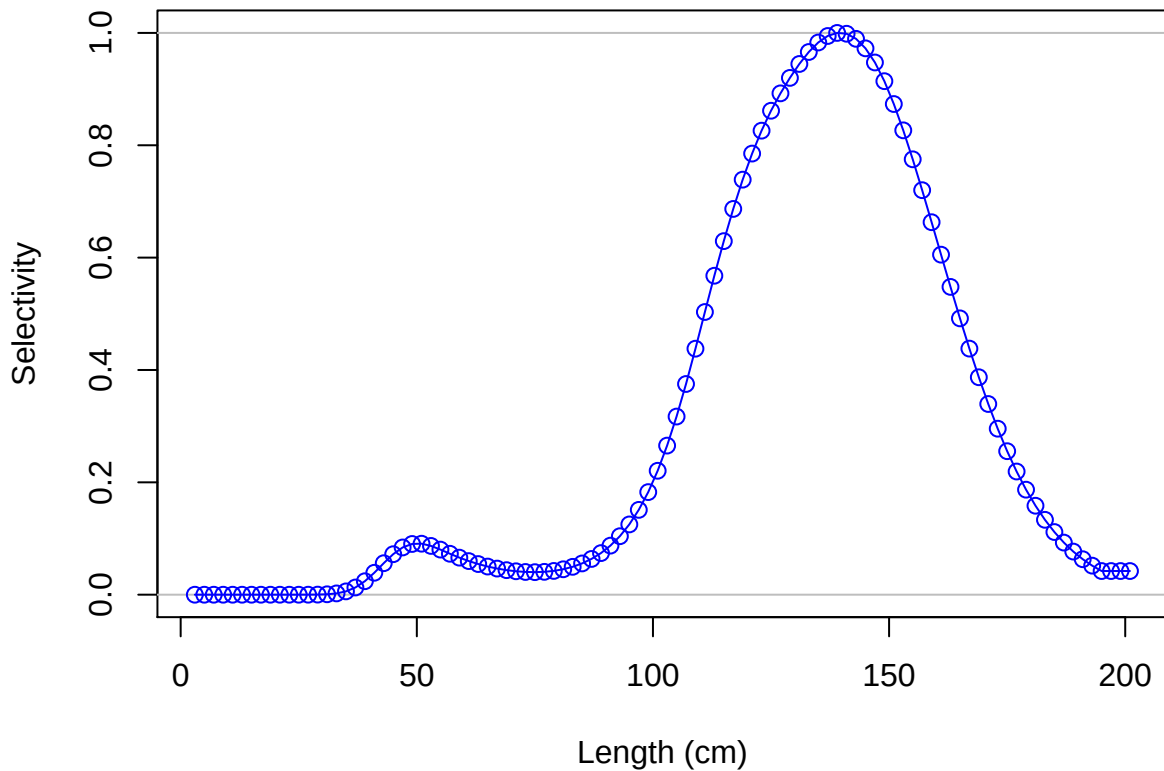




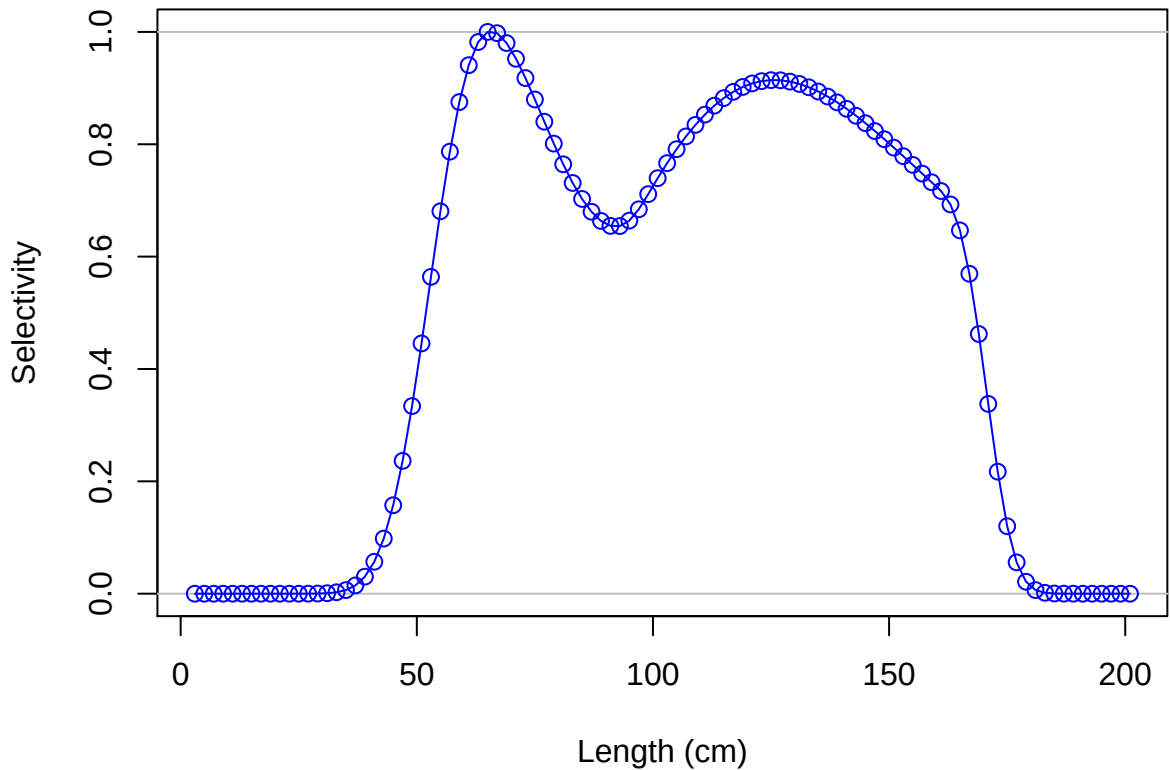
## Female ending year selectivity for F12-NOA\_C



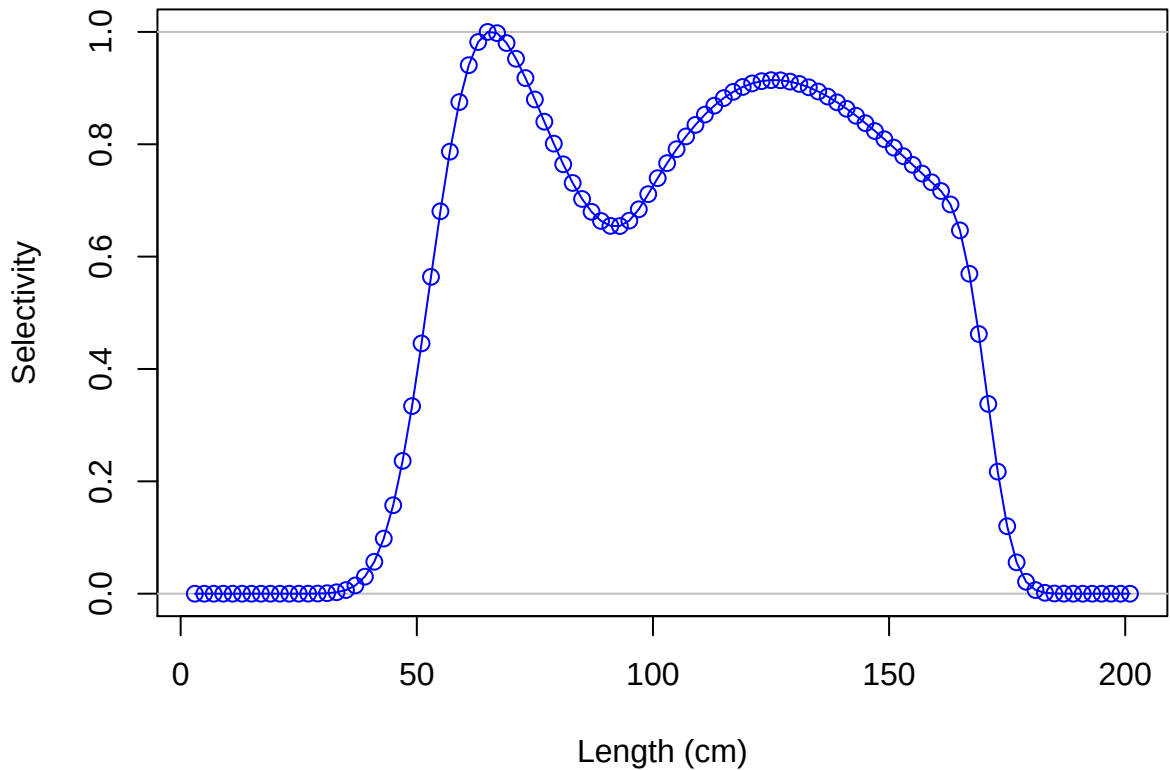
# Male ending year selectivity for F12-NOA\_C



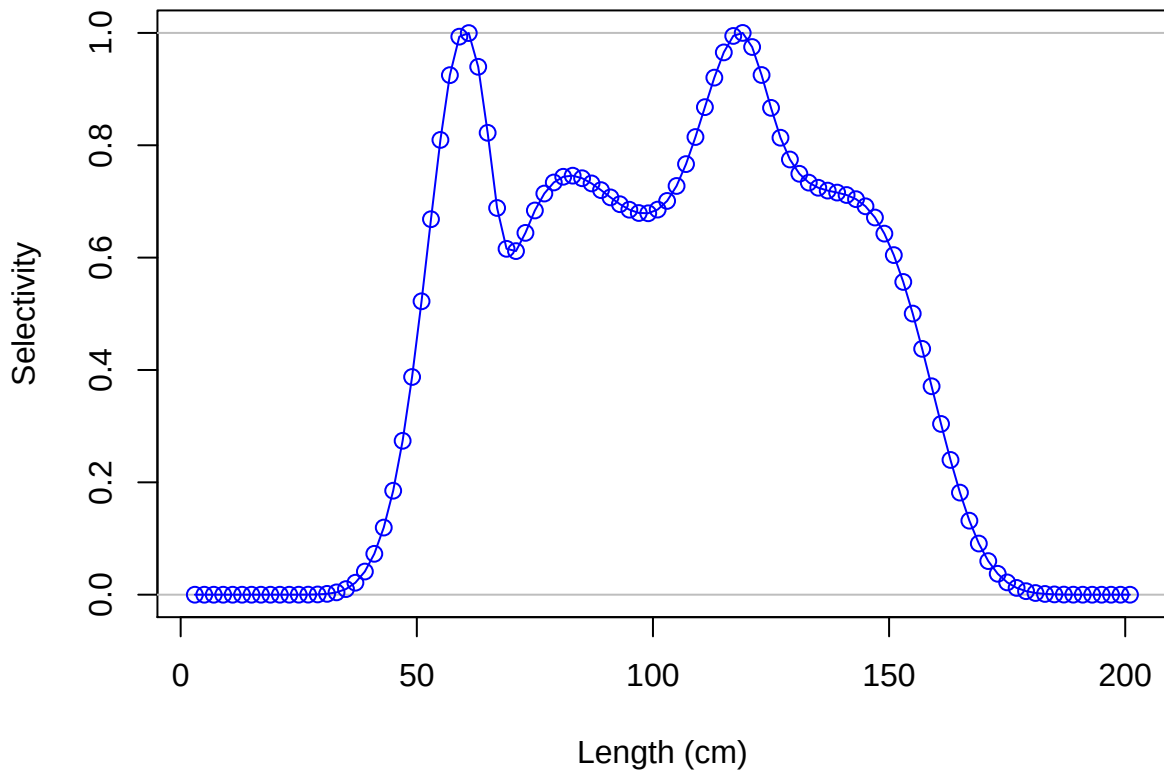
## Female ending year selectivity for F13-NOA\_I



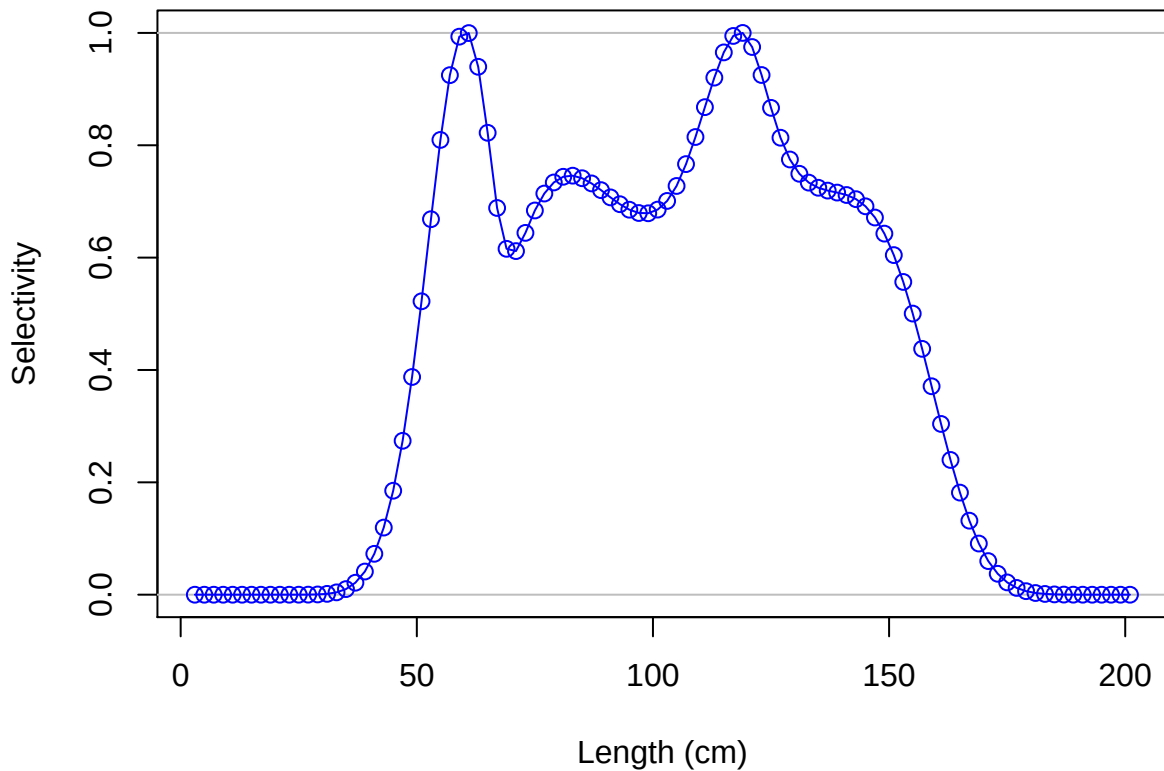
# Male ending year selectivity for F13-NOA\_I



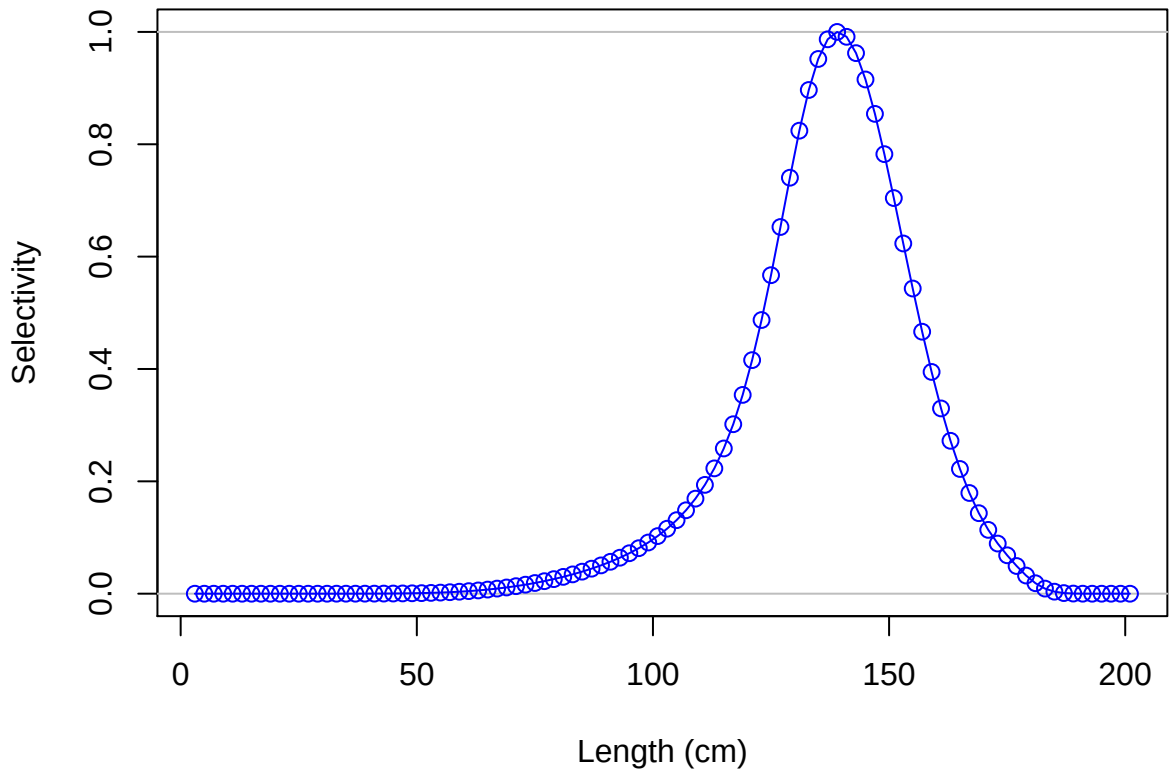
## Female ending year selectivity for F14-NOA\_S



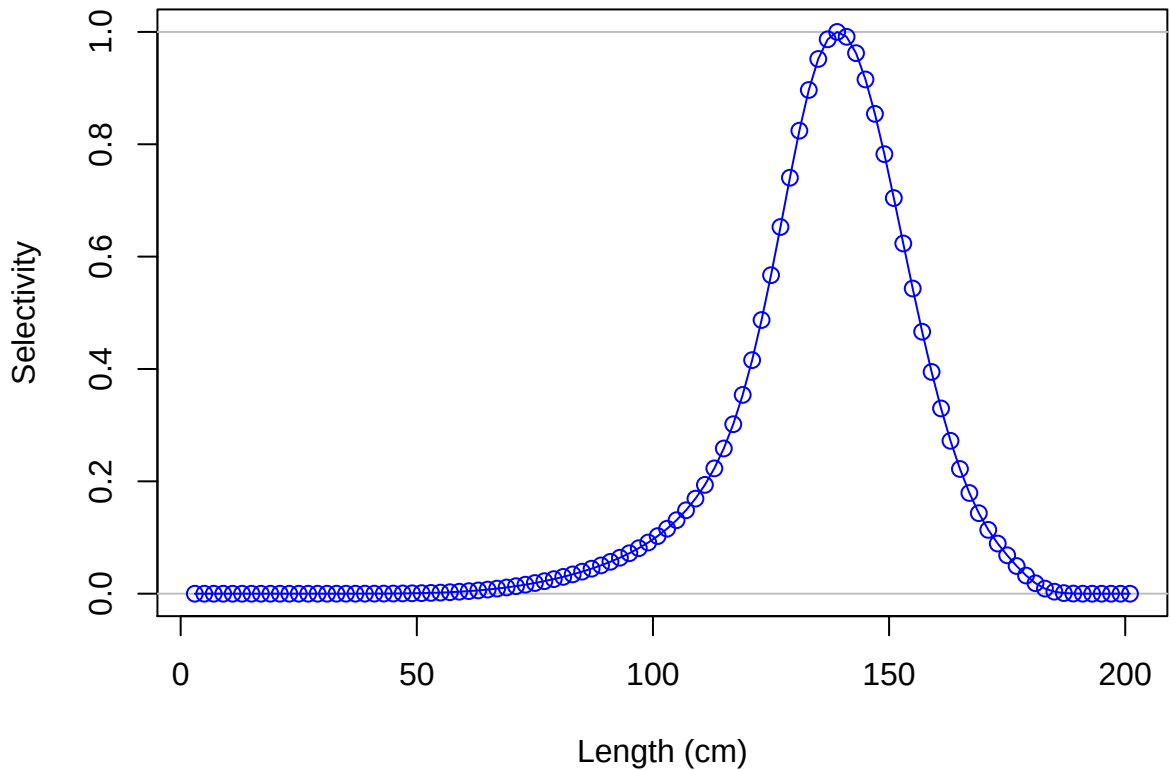
# Male ending year selectivity for F14-NOA\_S



Female ending year selectivity for F15-DEL\_N

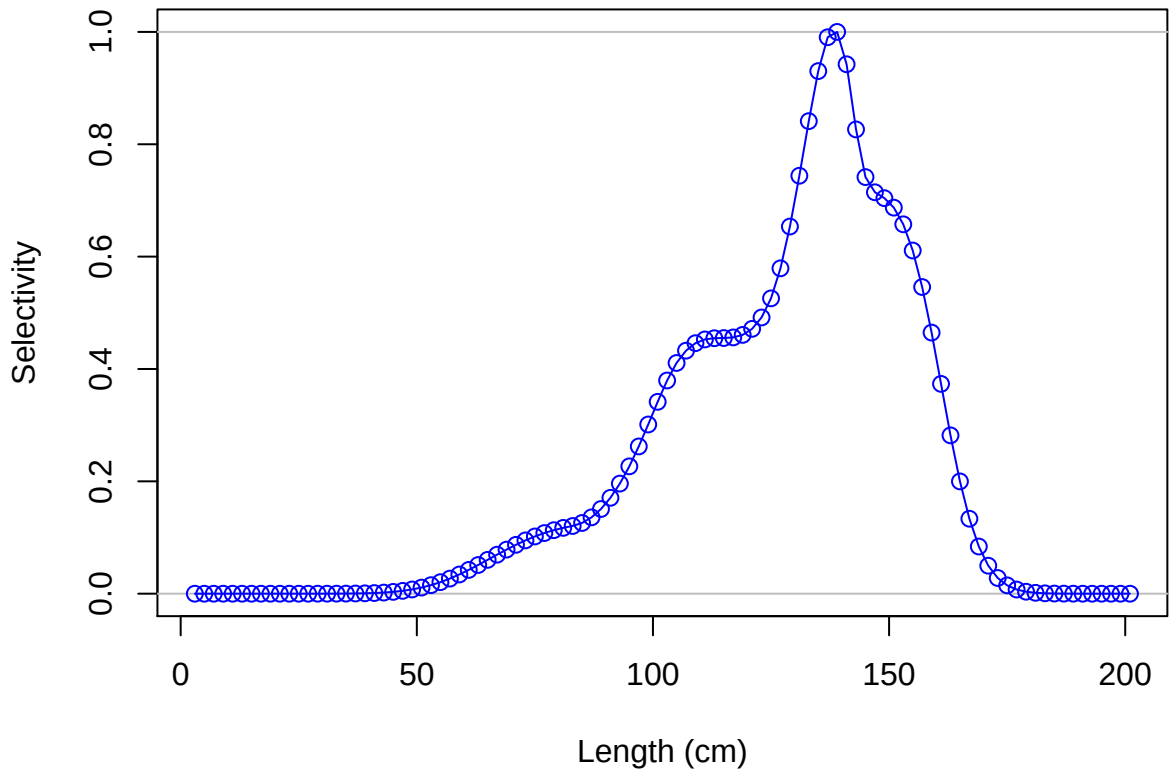


# Male ending year selectivity for F15-DEL\_N

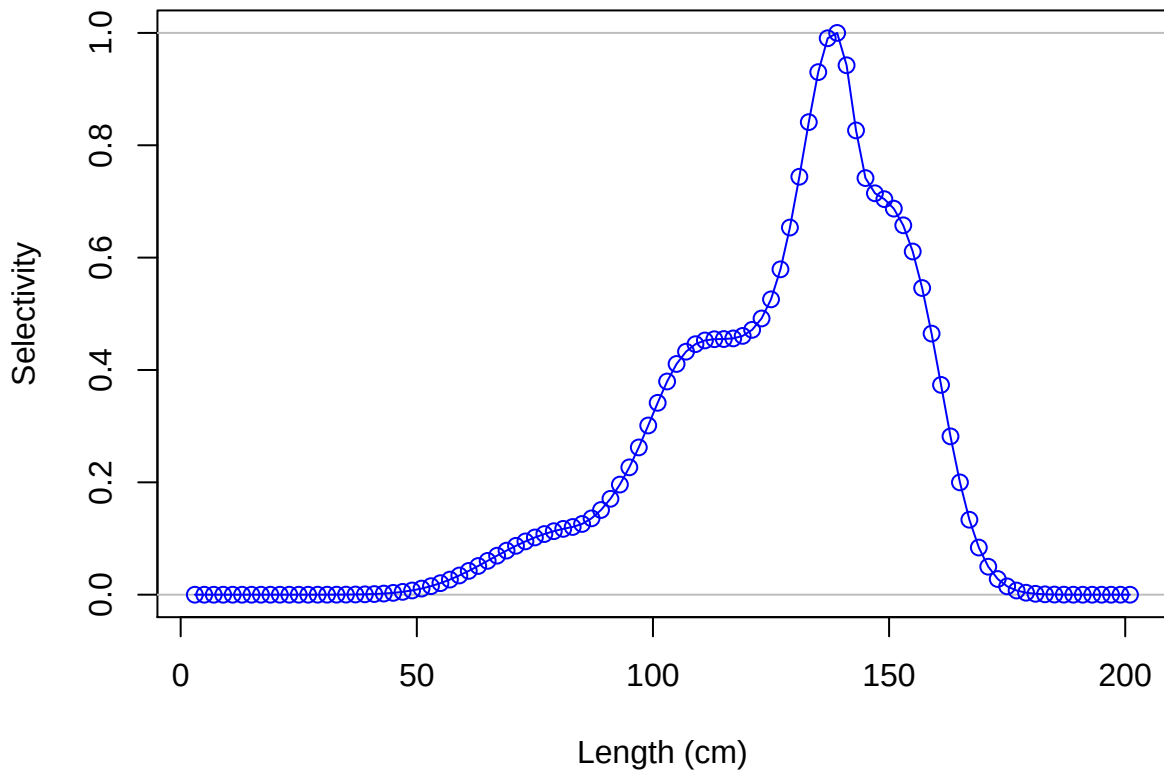




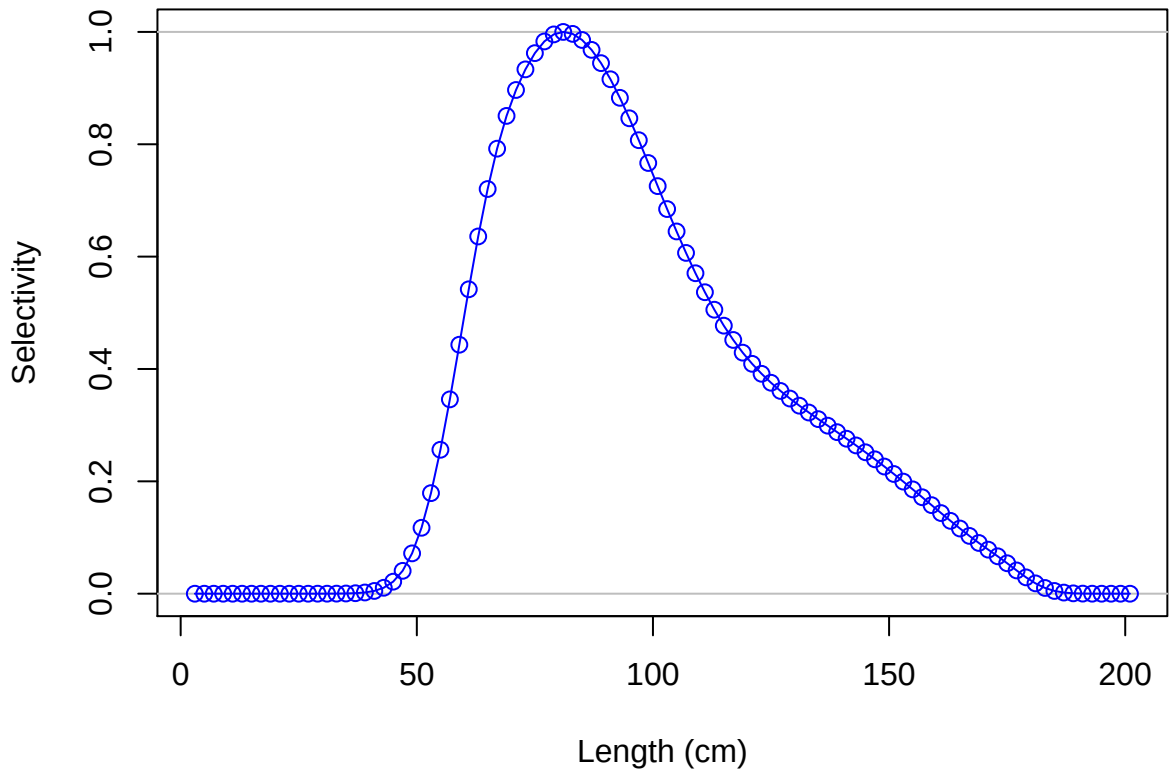
**Female ending year selectivity for F16-DEL\_NE**



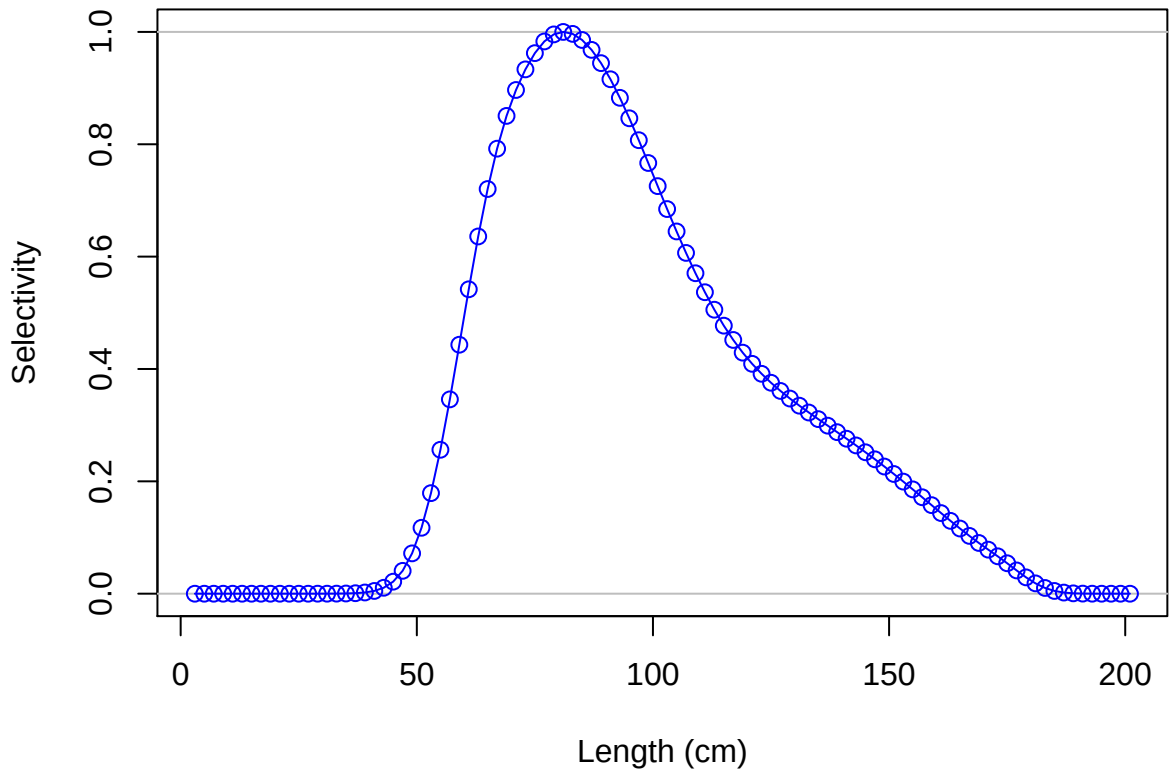
# Male ending year selectivity for F16-DEL\_NE



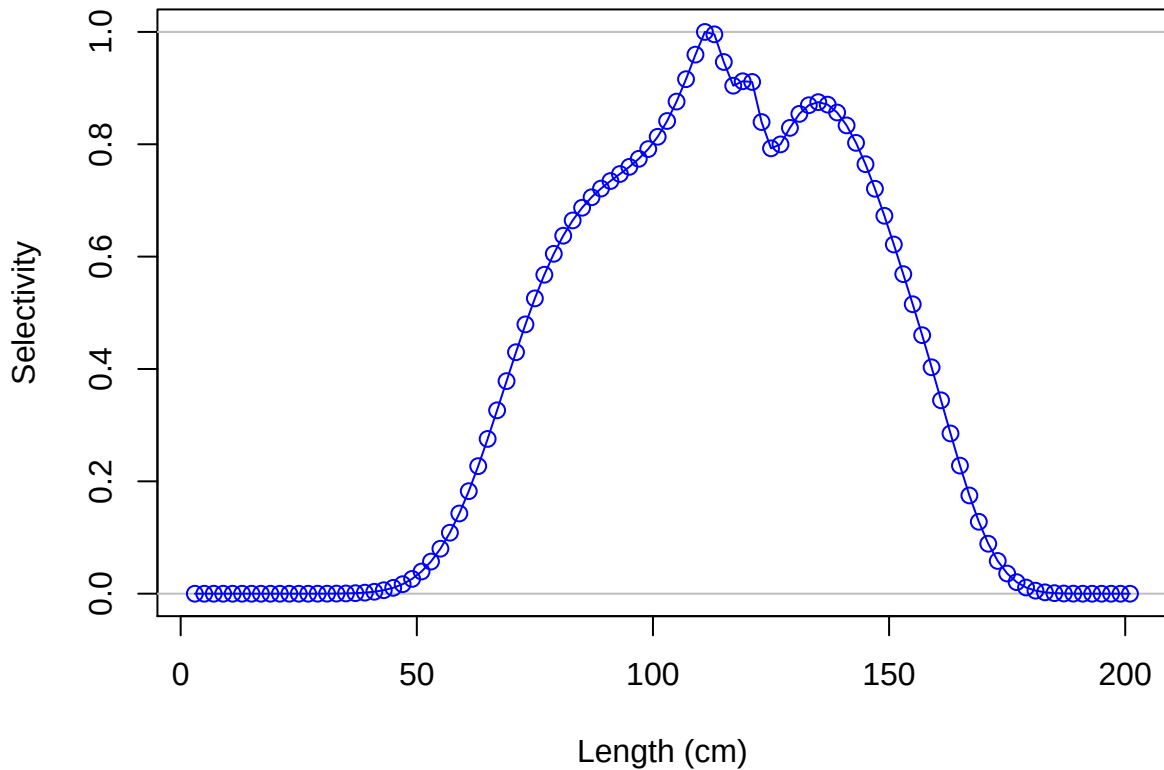
## Female ending year selectivity for F17-DEL\_M



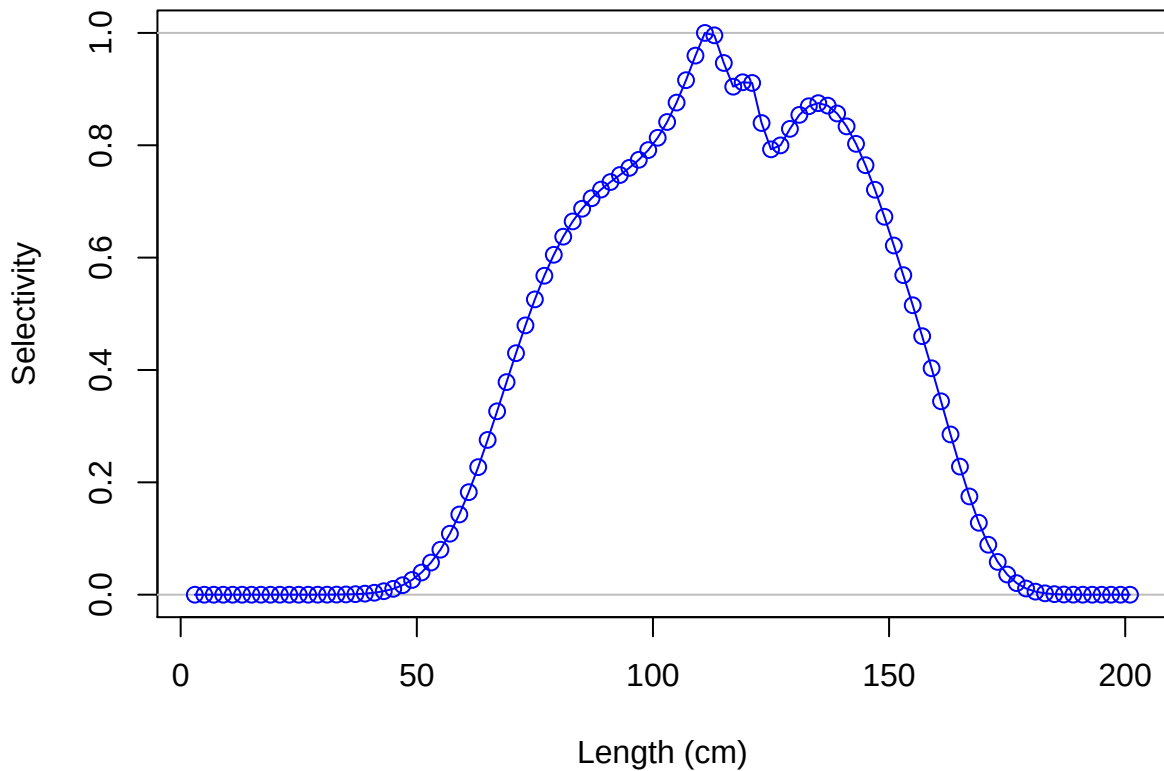
# Male ending year selectivity for F17-DEL\_M



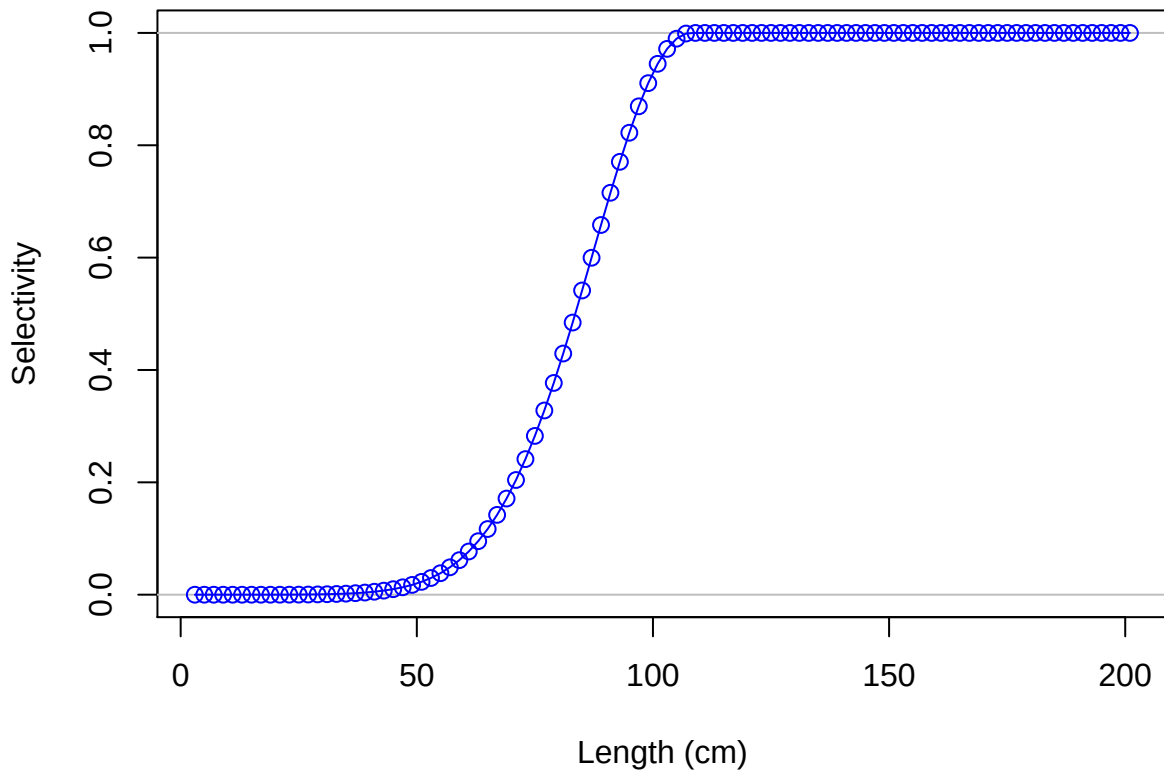
## Female ending year selectivity for F18-DEL\_C



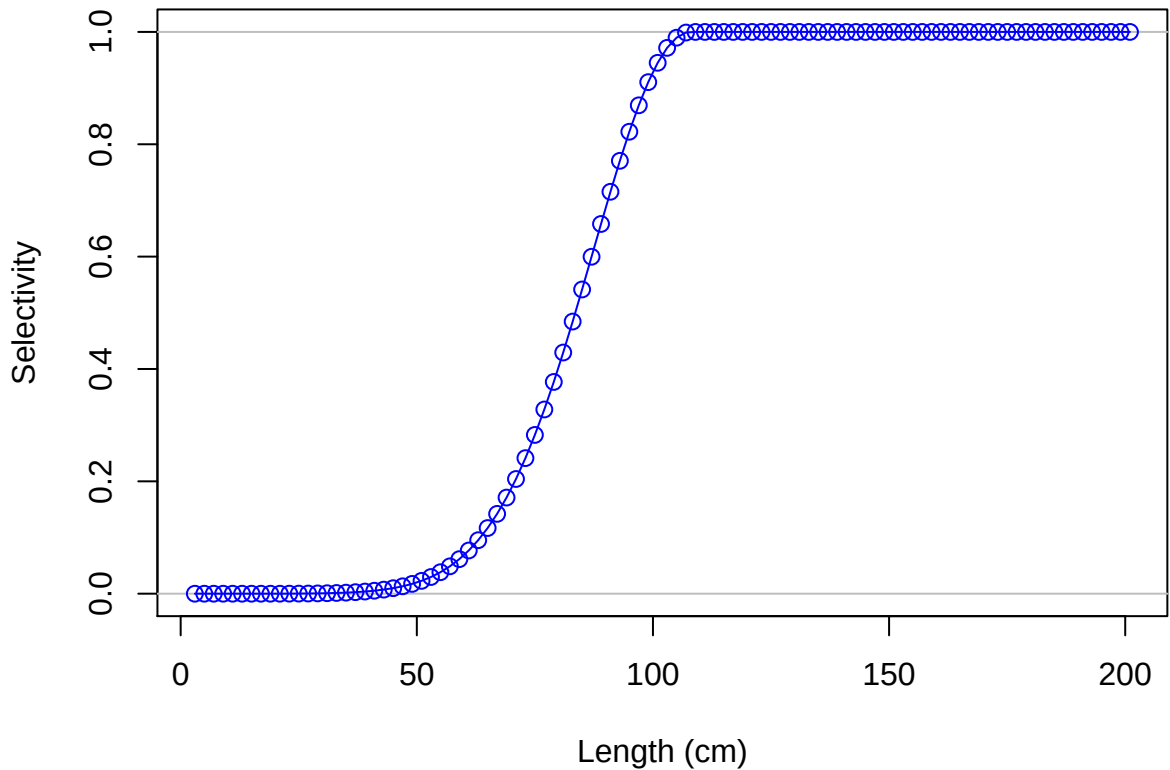
# Male ending year selectivity for F18-DEL\_C



## Female ending year selectivity for F19-DEL\_P

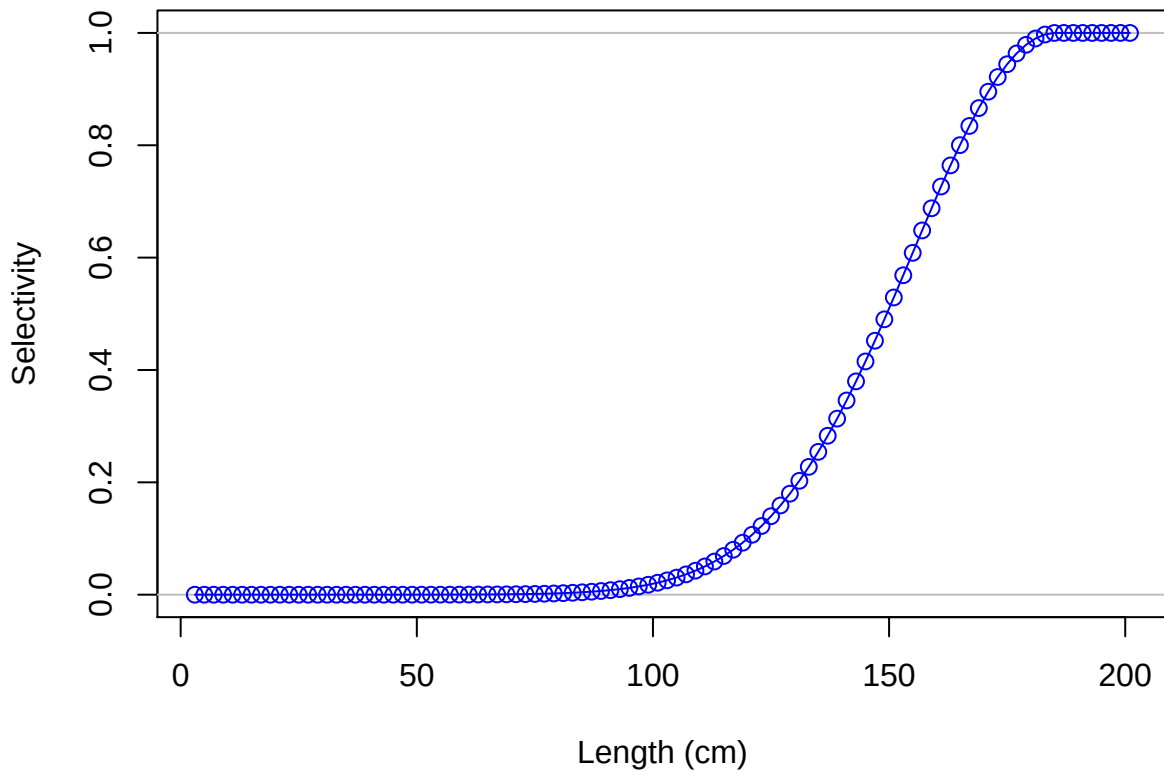


# Male ending year selectivity for F19-DEL\_P

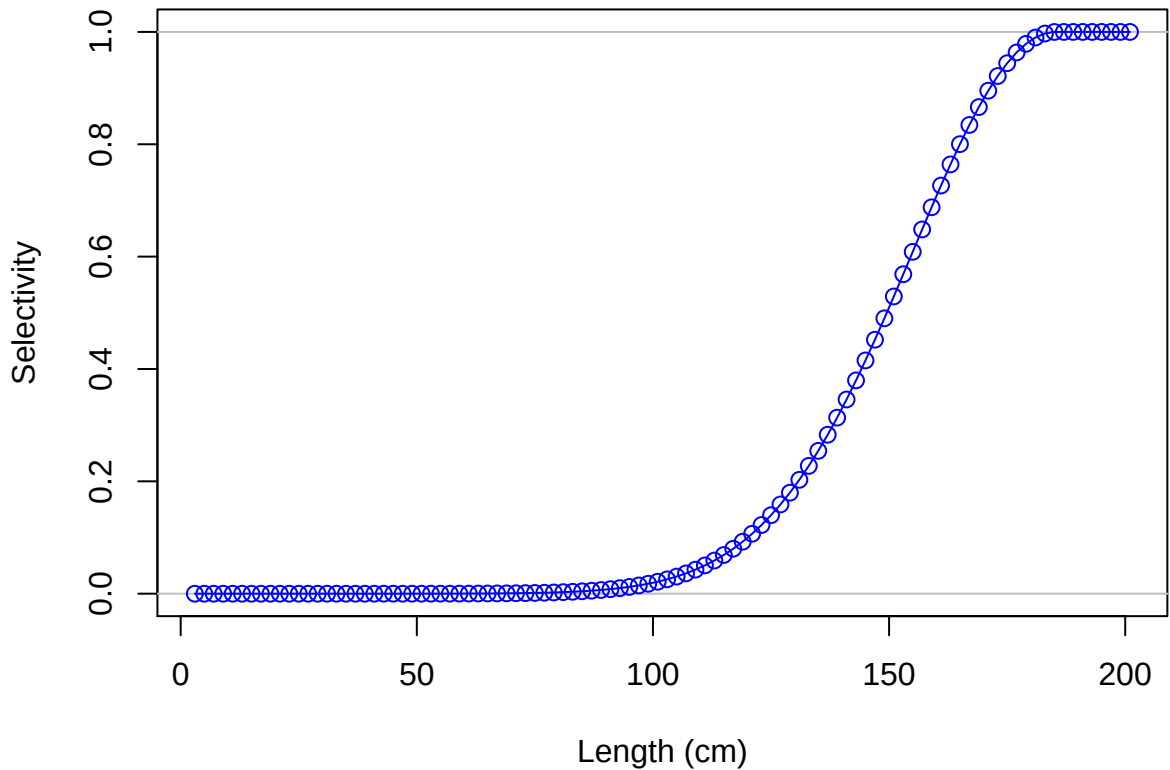




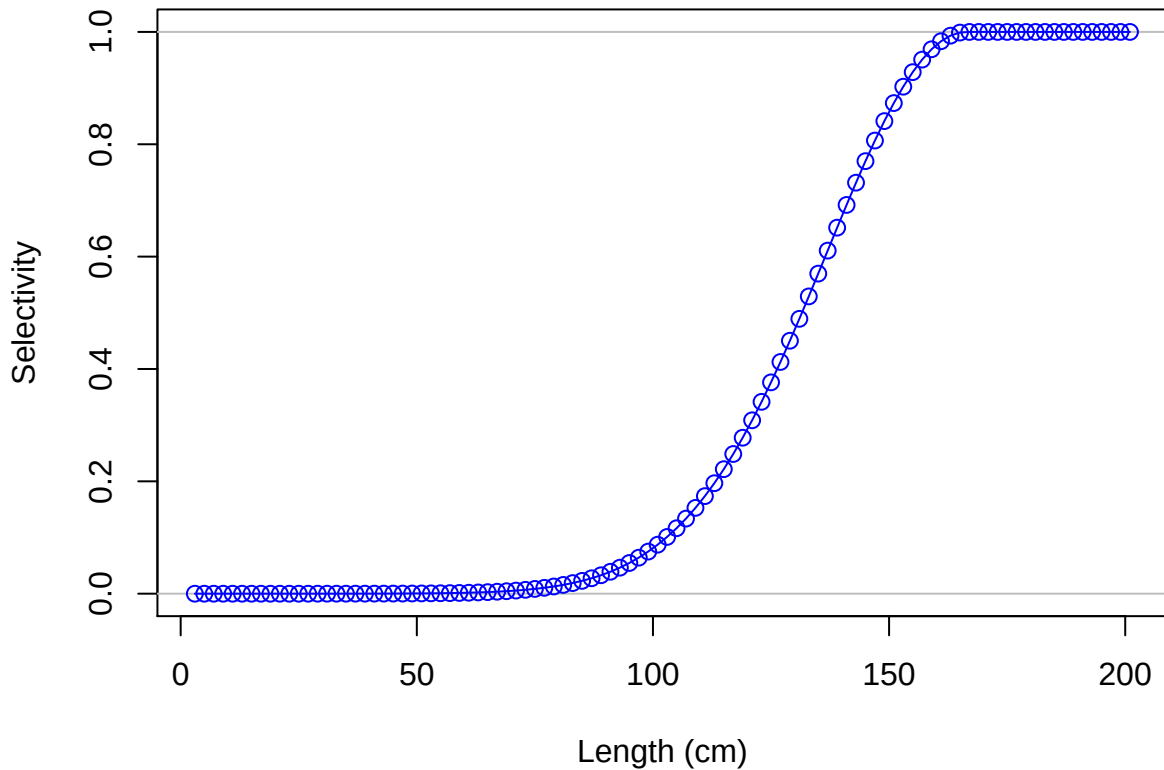
## Female ending year selectivity for F20-DEL\_S



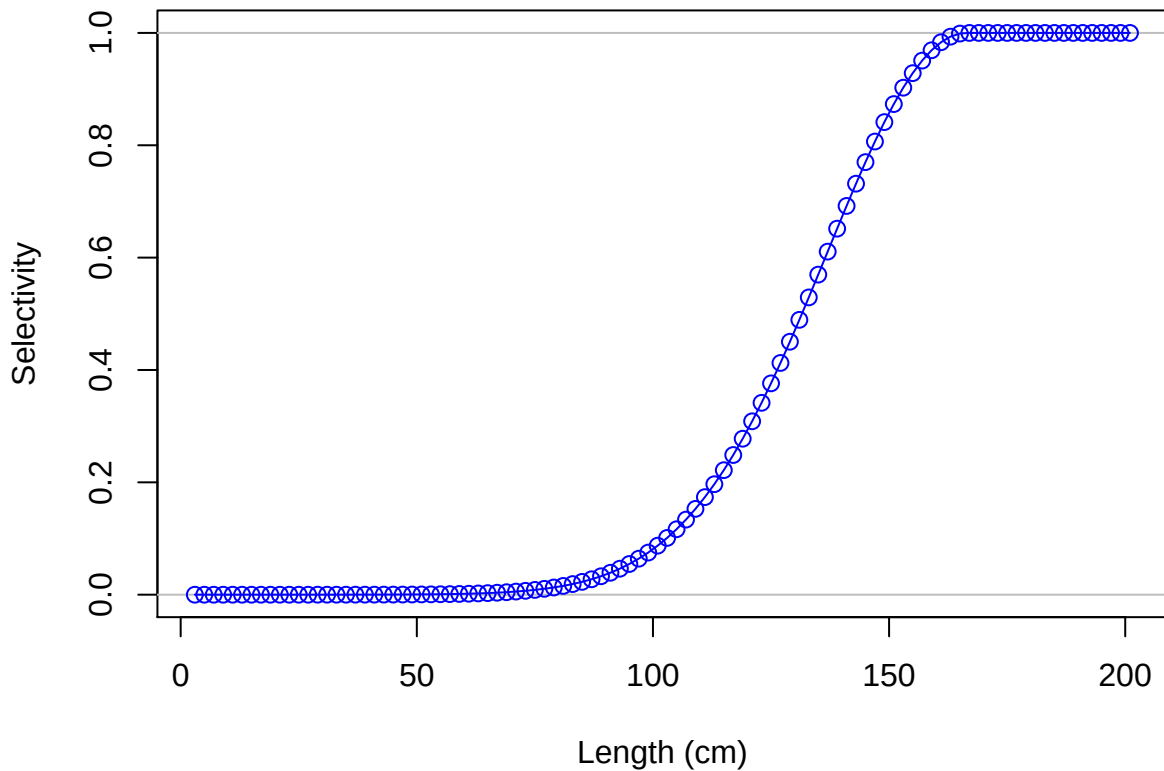
# Male ending year selectivity for F20-DEL\_S



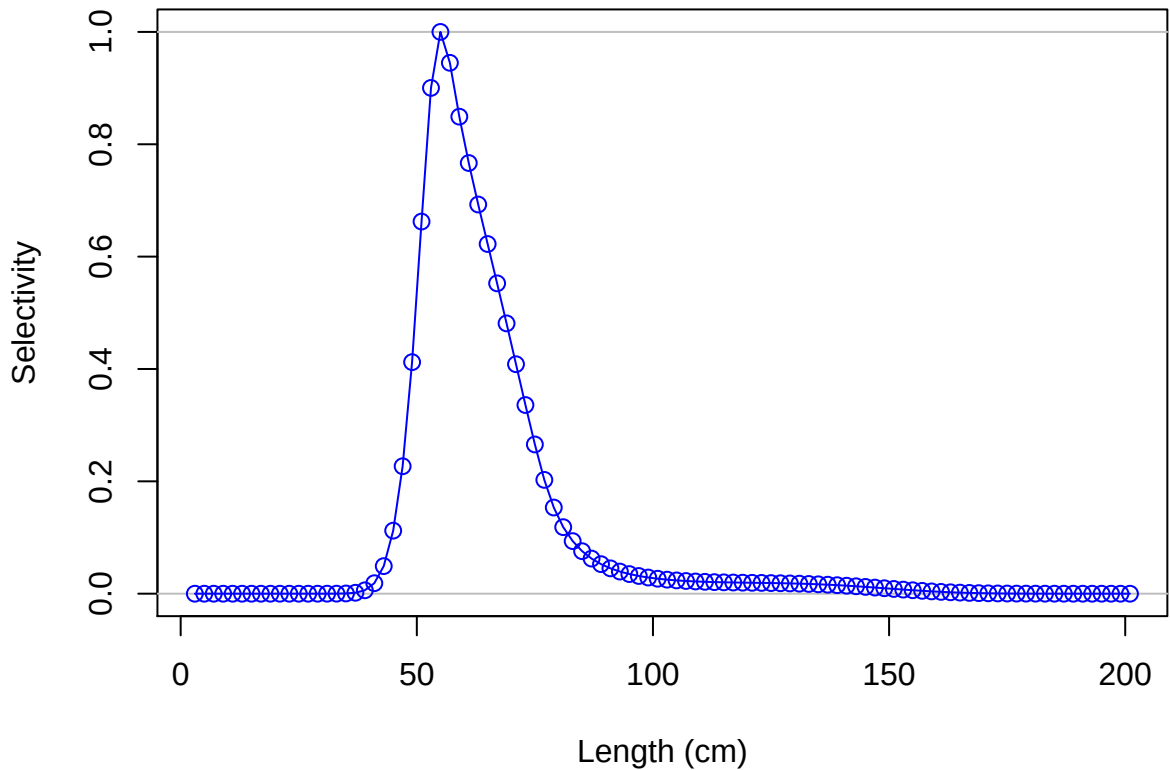
## Female ending year selectivity for F21-DEL\_I



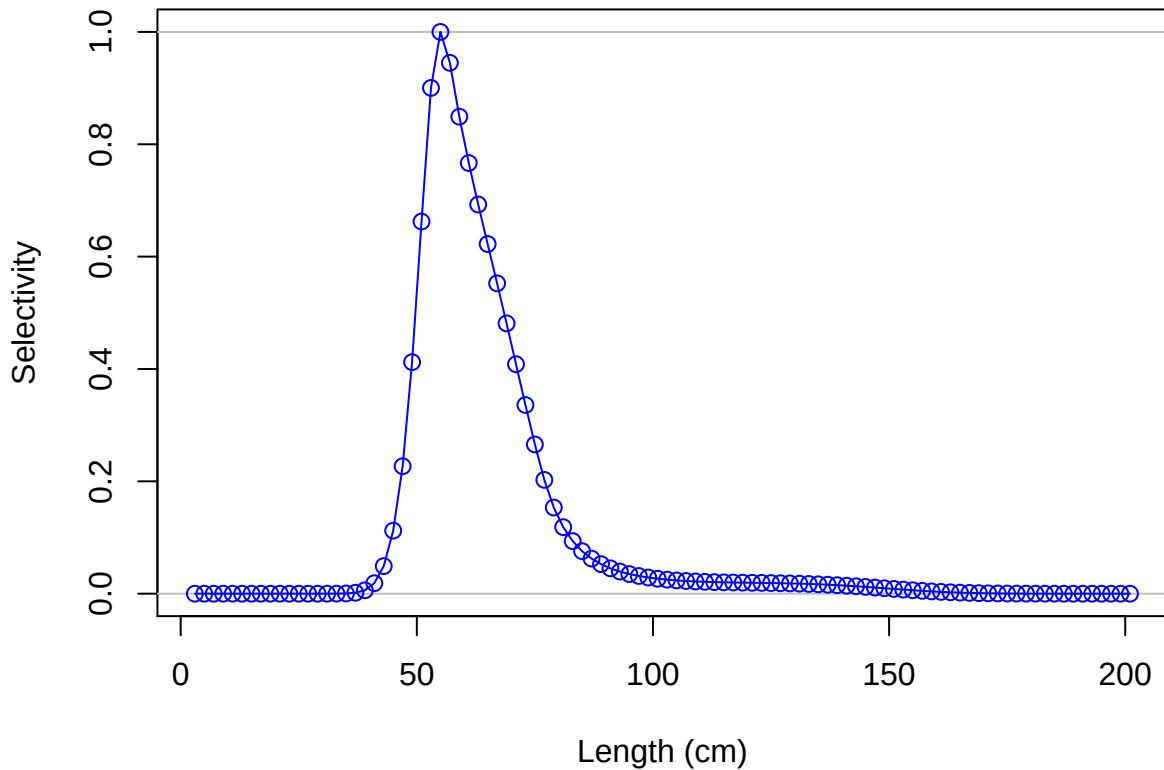
# Male ending year selectivity for F21-DEL\_I



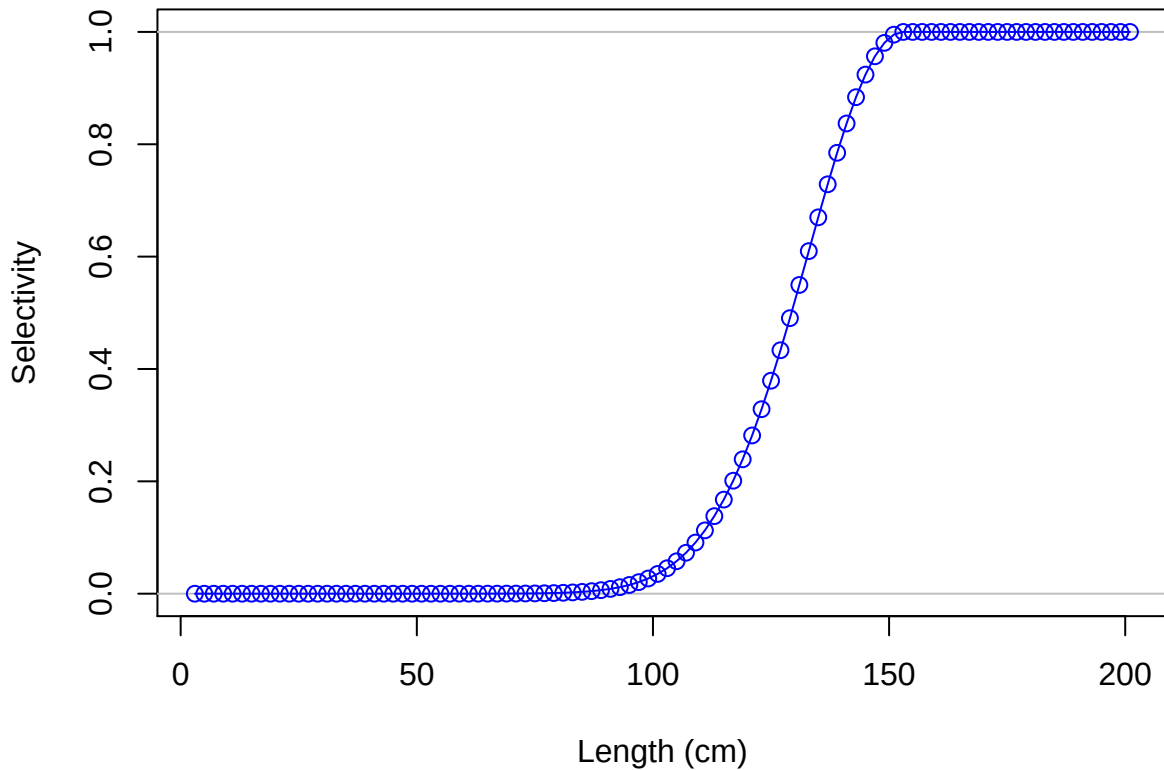
## Female ending year selectivity for F22-BB



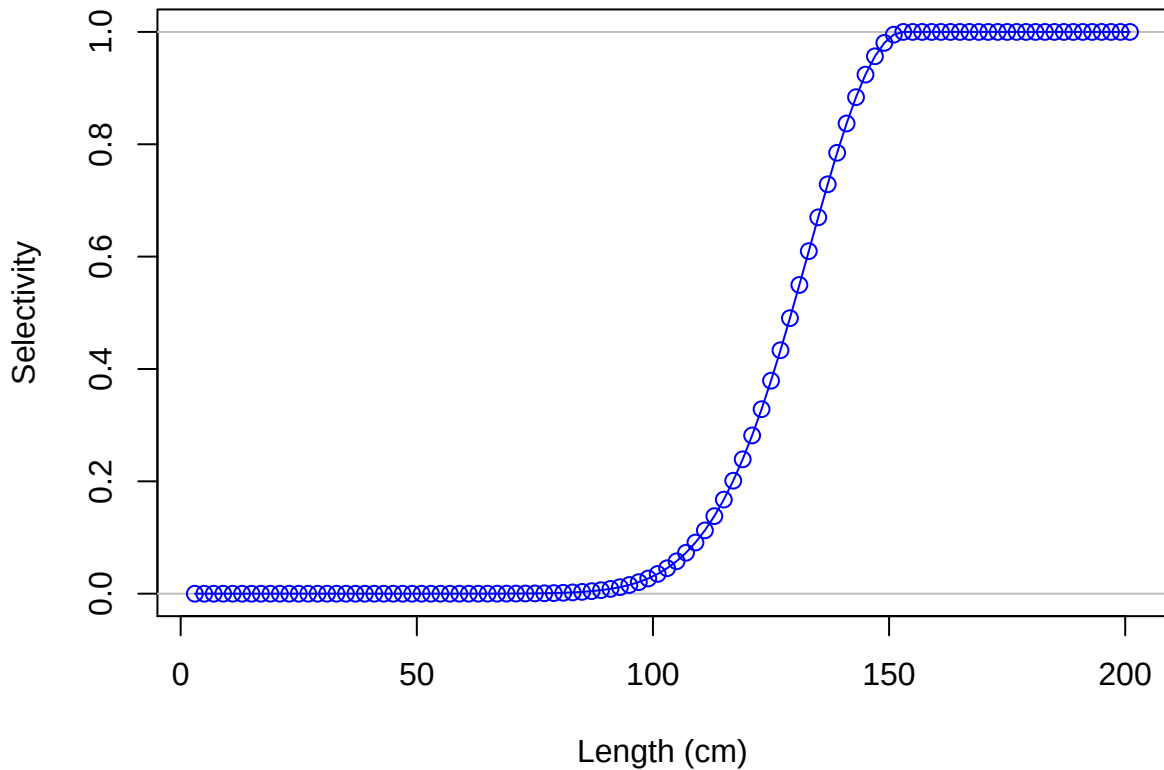
# Male ending year selectivity for F22-BB



**Female ending year selectivity for F29-LL\_W\_Q14n**

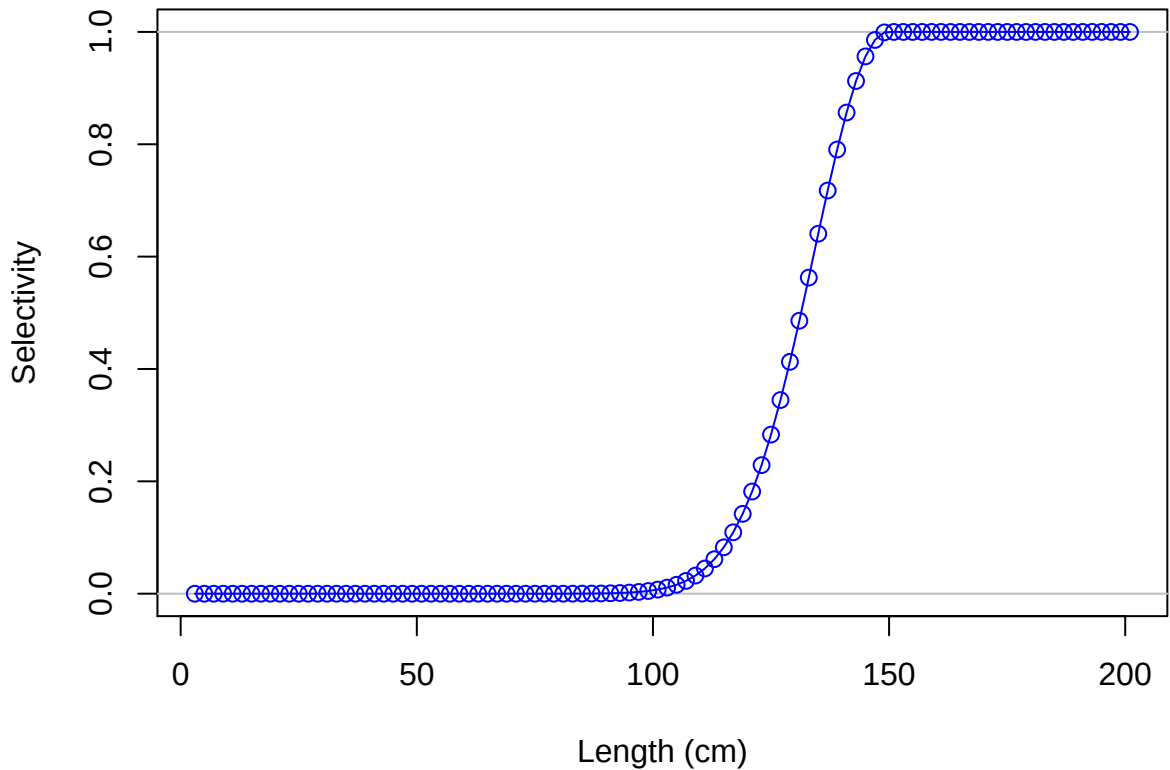


**Male ending year selectivity for F29-LL\_W\_Q14n**

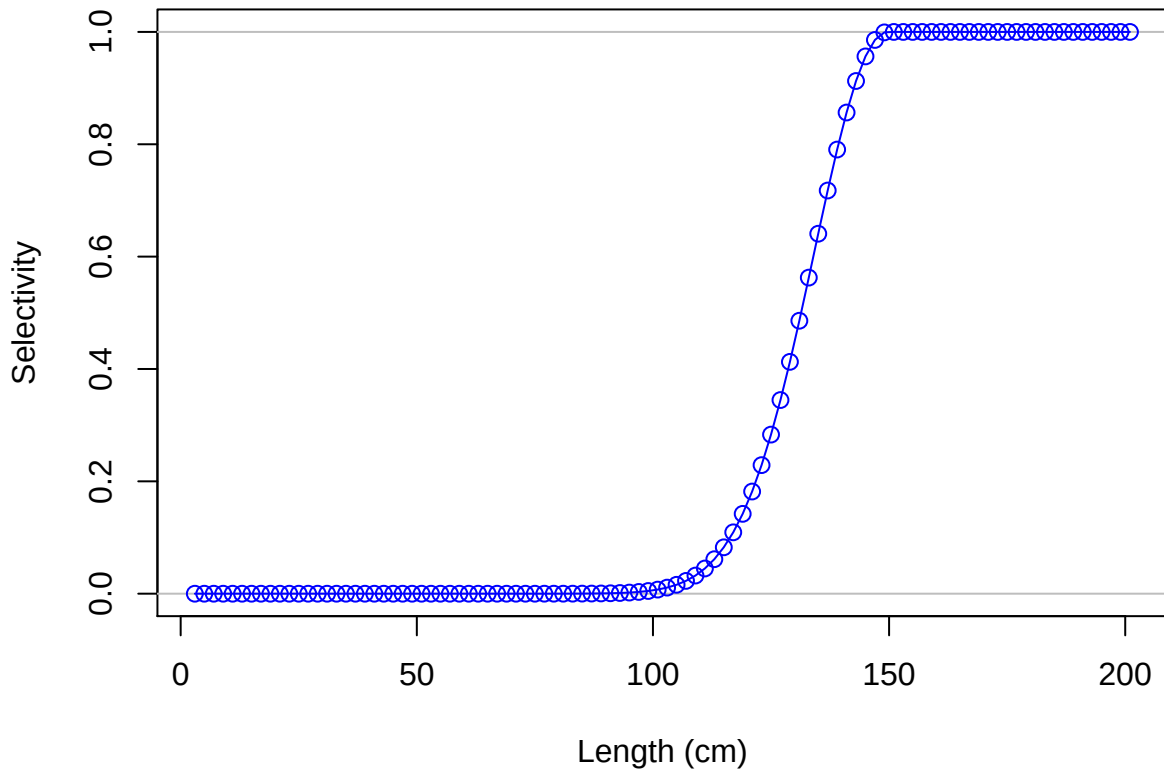




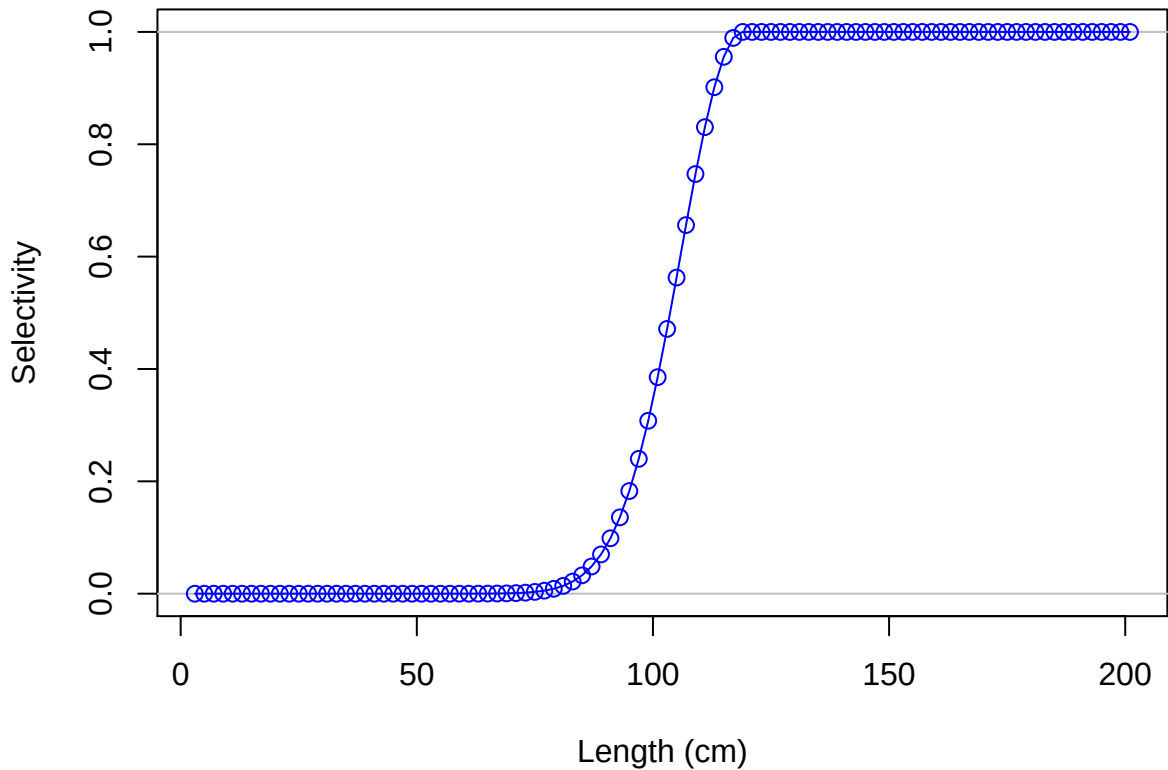
Female ending year selectivity for F30-LL\_C\_Q14n



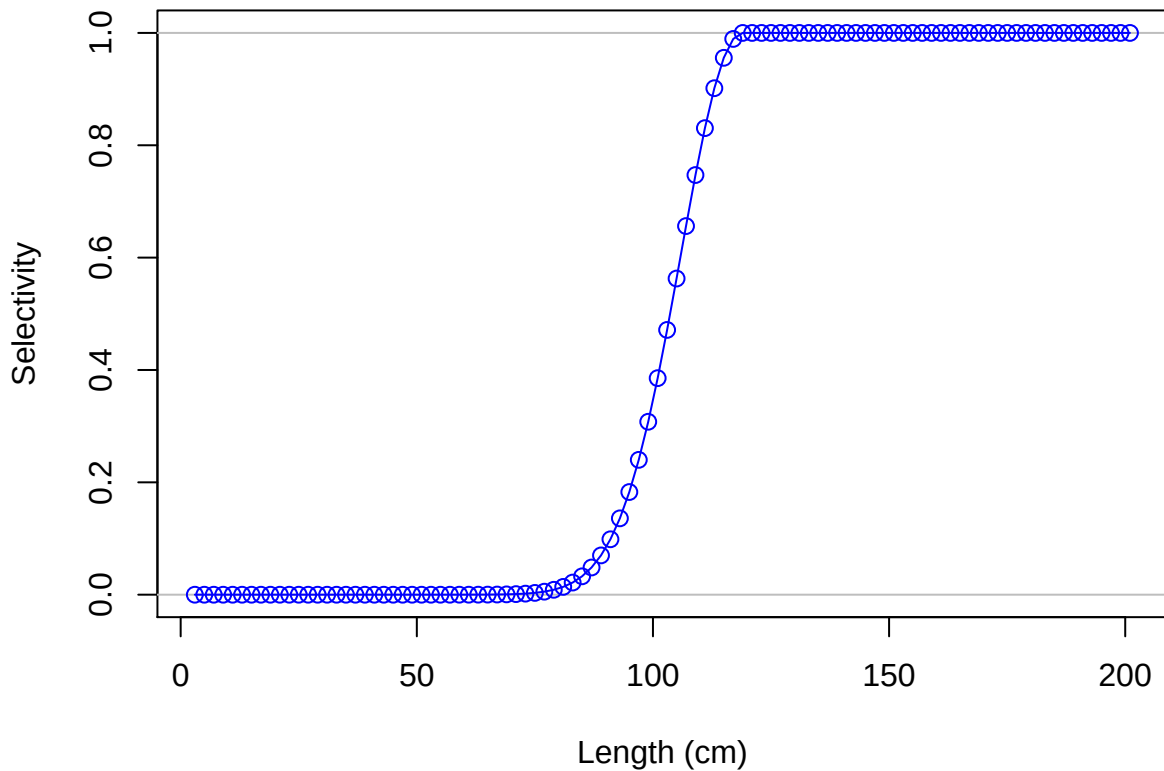
# Male ending year selectivity for F30-LL\_C\_Q14n



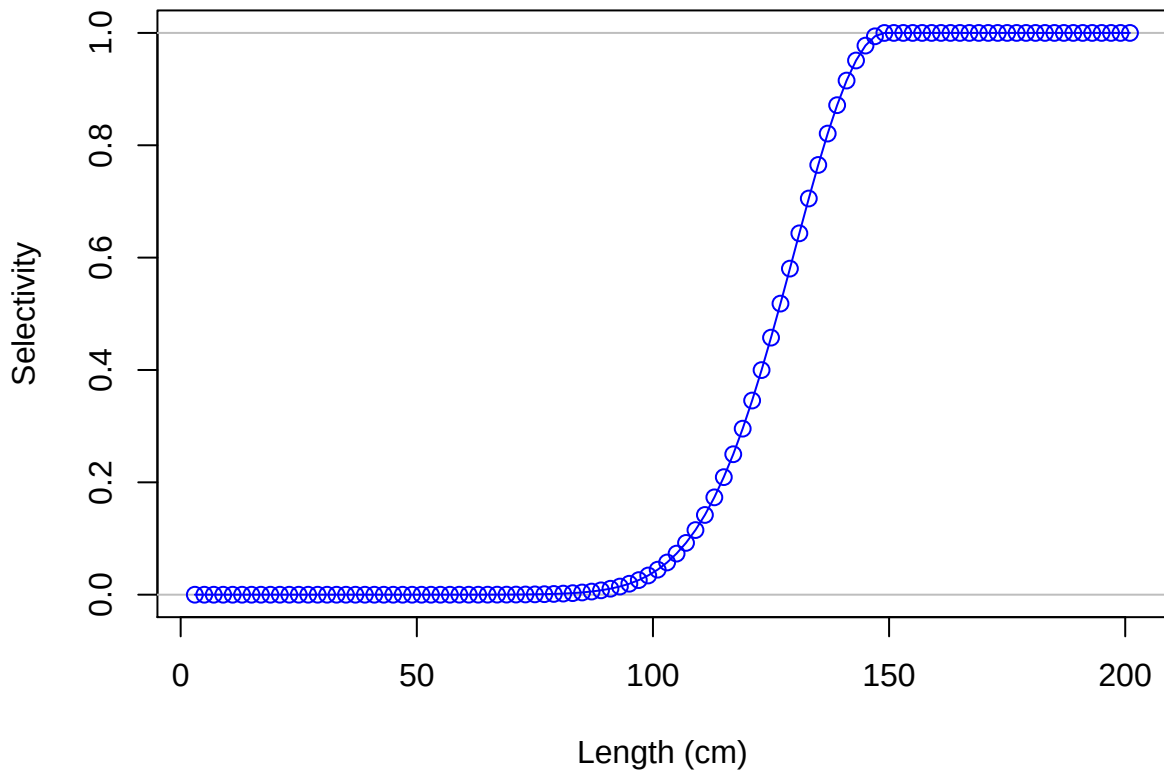
Female ending year selectivity for F31-LL\_E\_Q14n



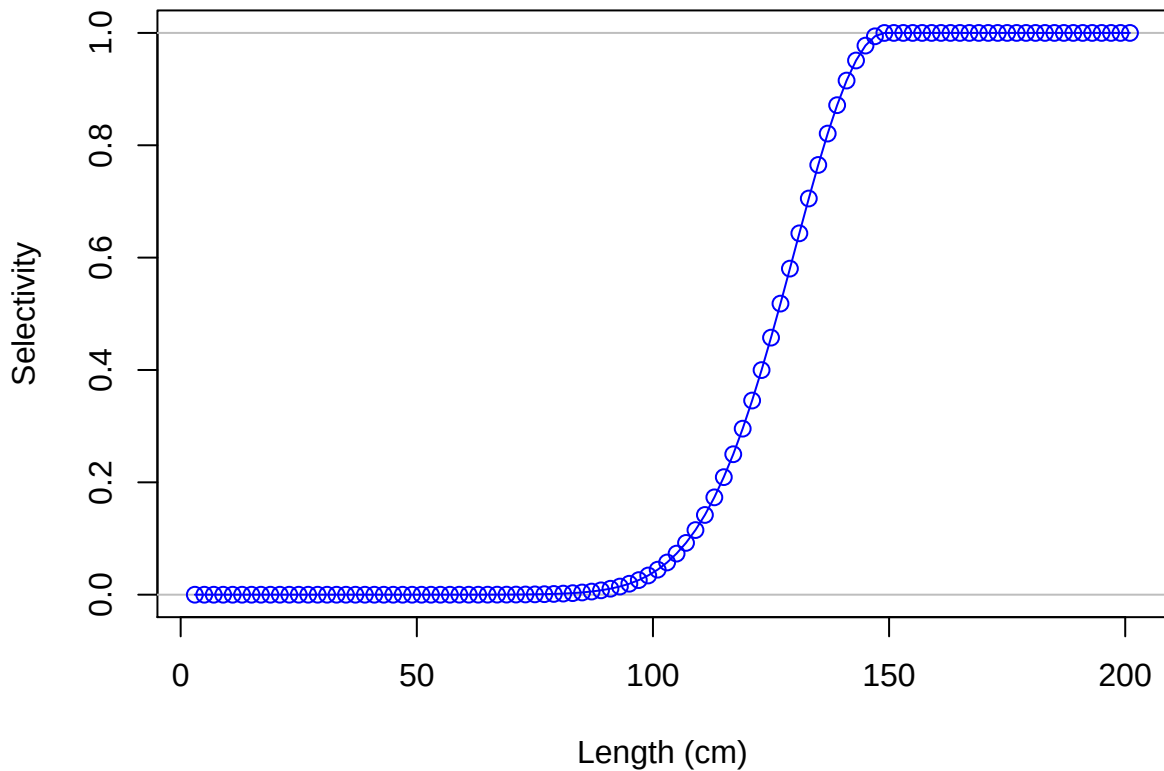
Male ending year selectivity for F31-LL\_E\_Q14n



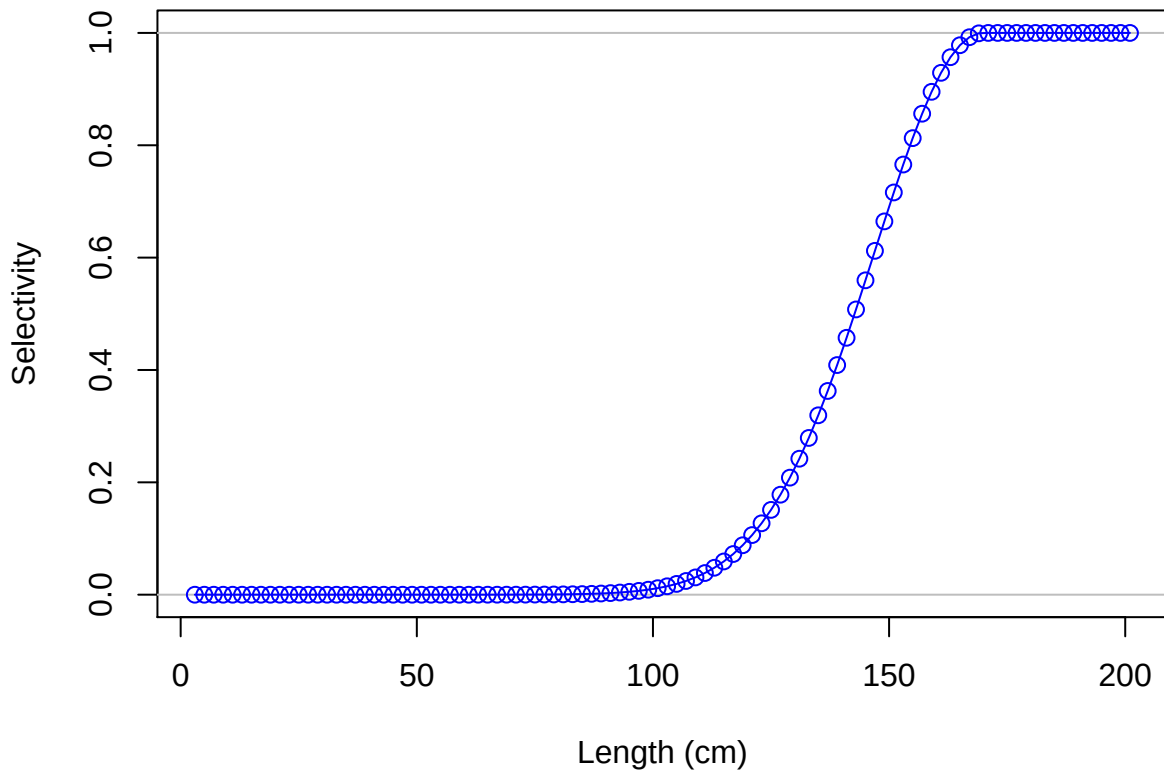
Female ending year selectivity for F32-LL\_W\_Q23n



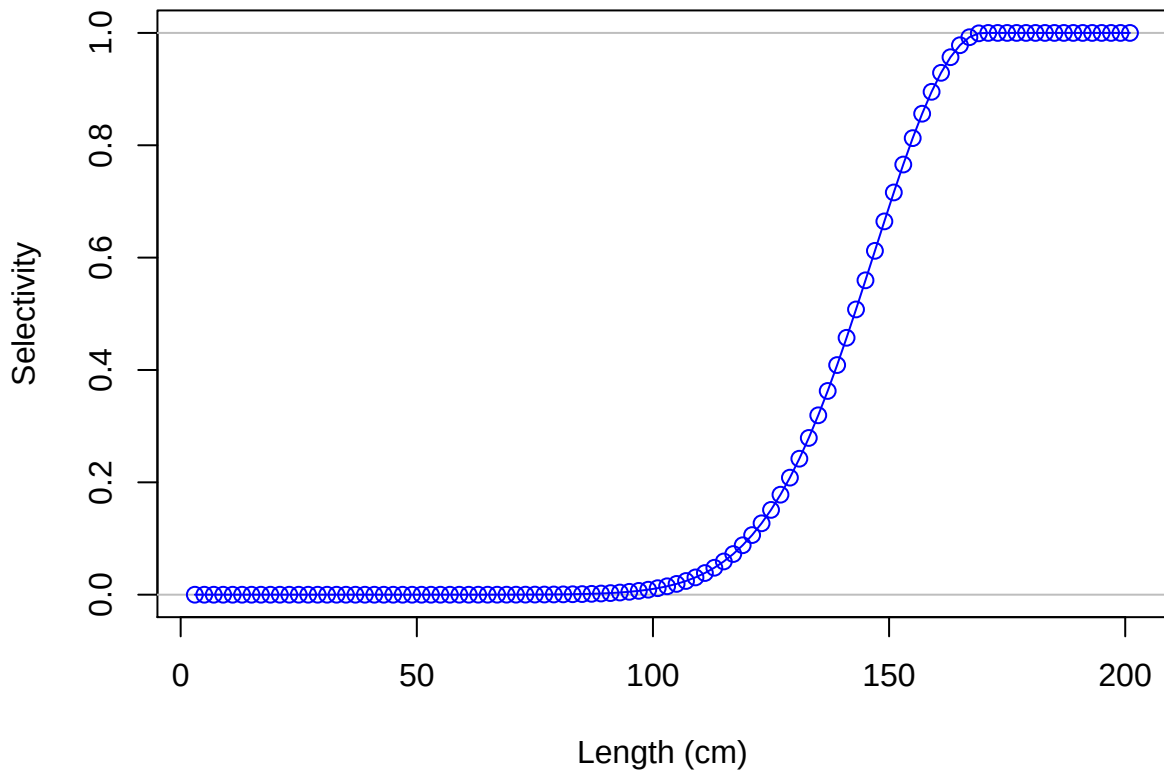
Male ending year selectivity for F32-LL\_W\_Q23n



Female ending year selectivity for F33-LL\_C\_Q23n

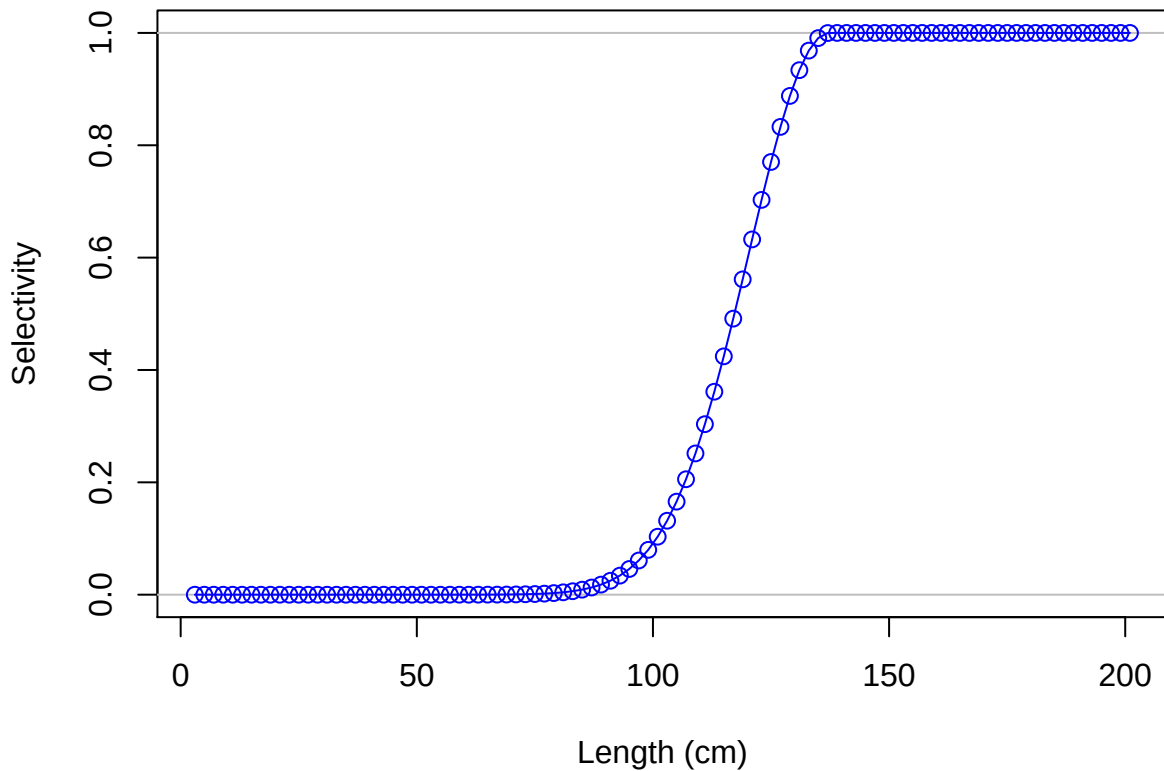


# Male ending year selectivity for F33-LL\_C\_Q23n

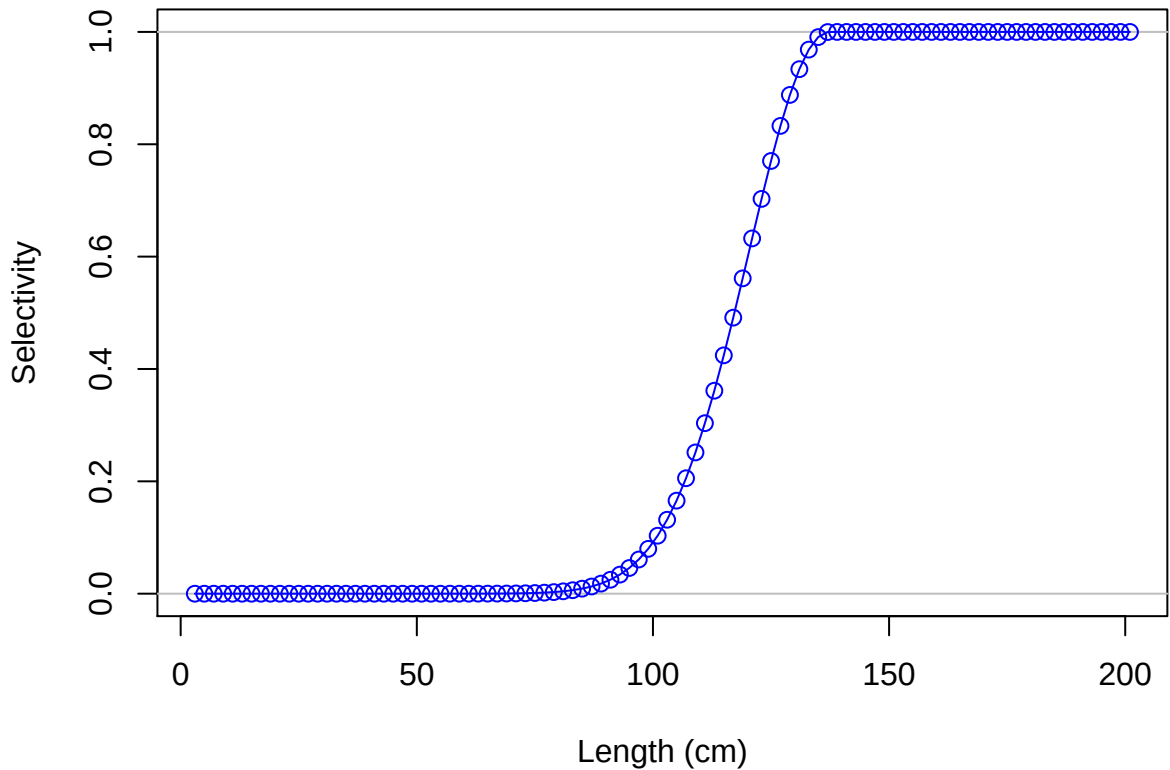




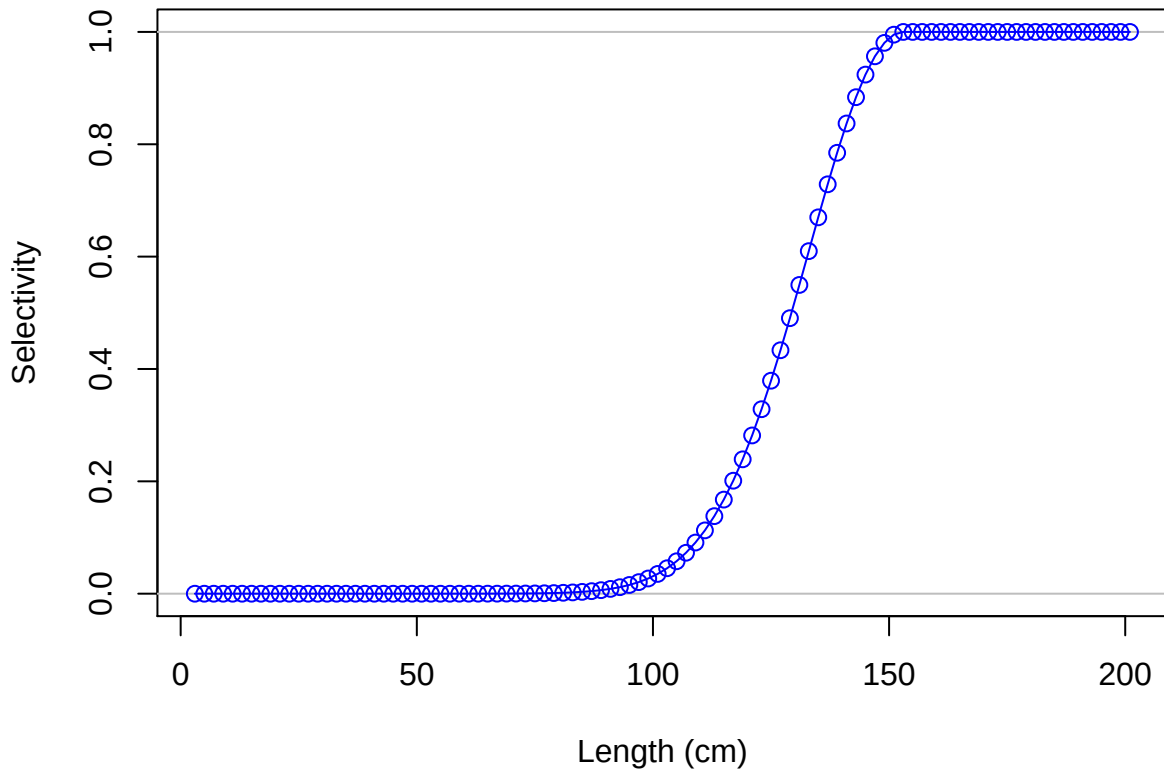
Female ending year selectivity for F34-LL\_E\_Q23n



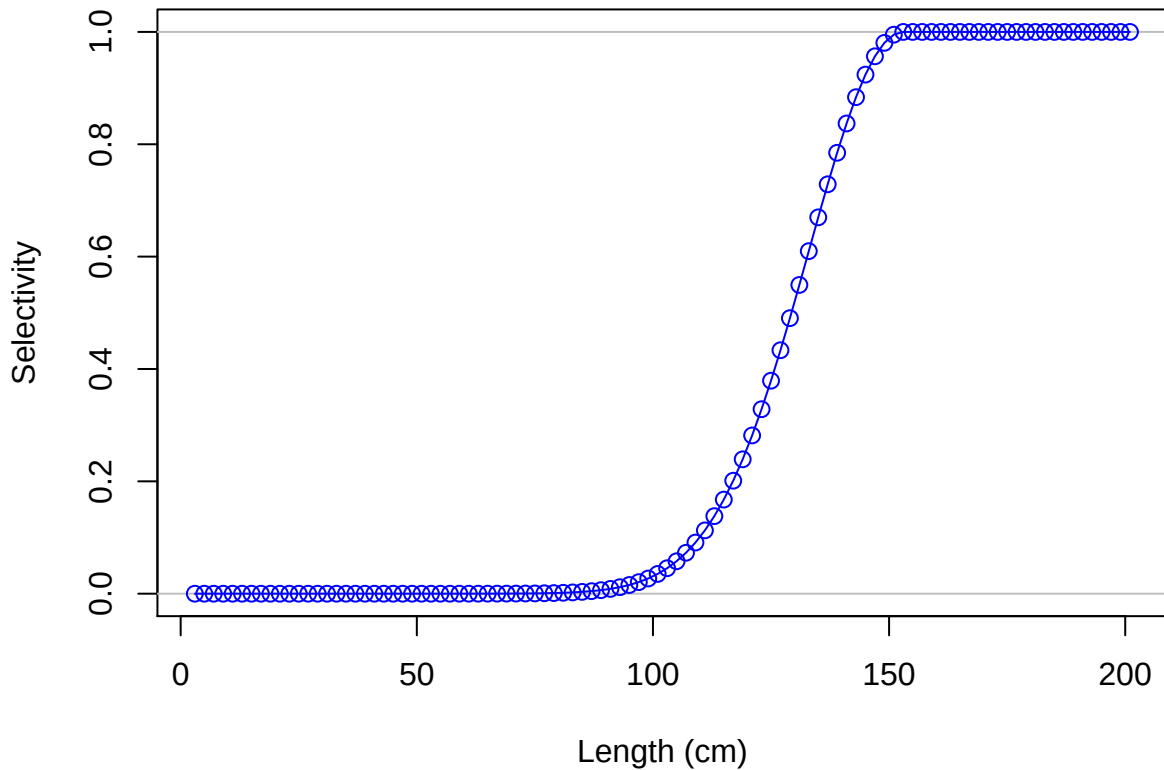
# Male ending year selectivity for F34-LL\_E\_Q23n



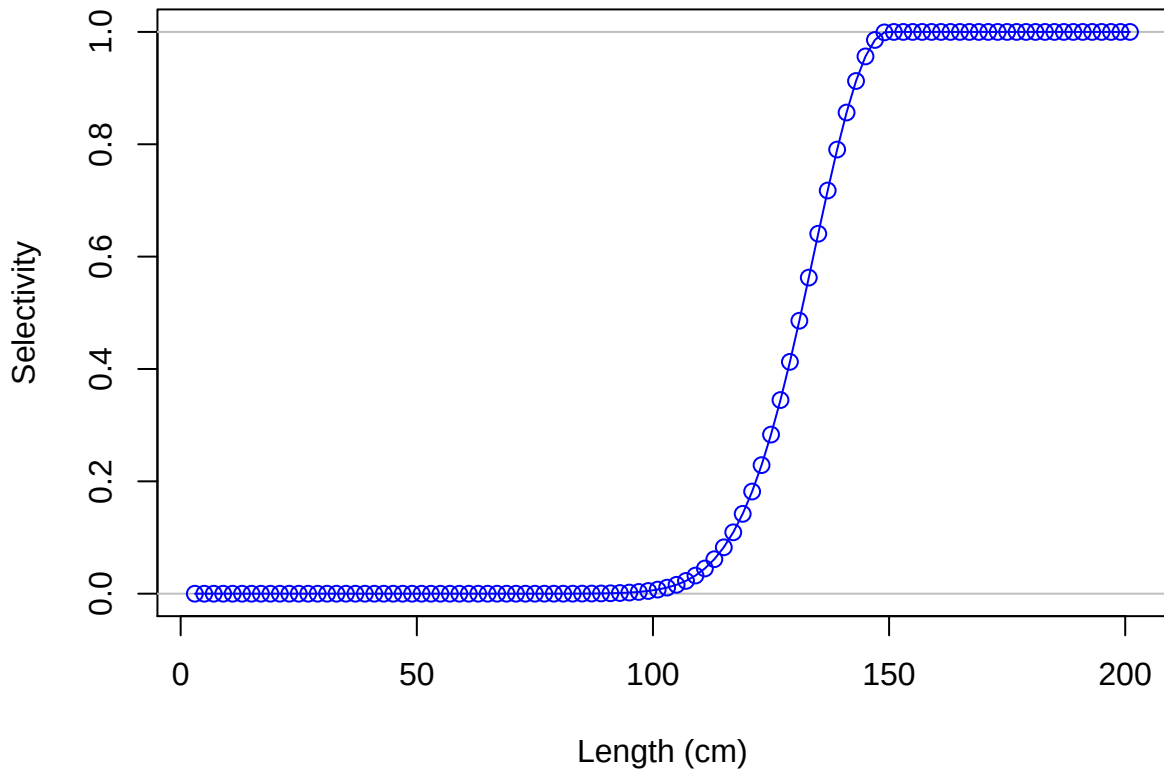
Female ending year selectivity for F35-LL\_W\_Q14w



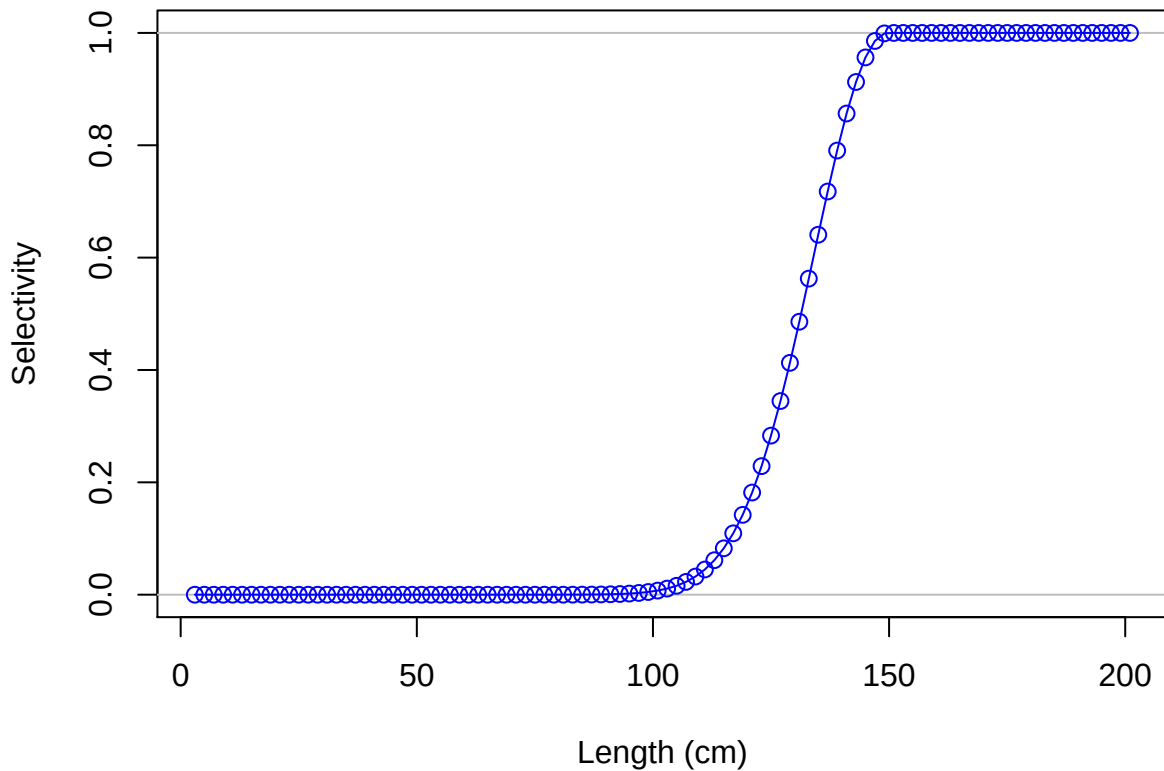
Male ending year selectivity for F35-LL\_W\_Q14w



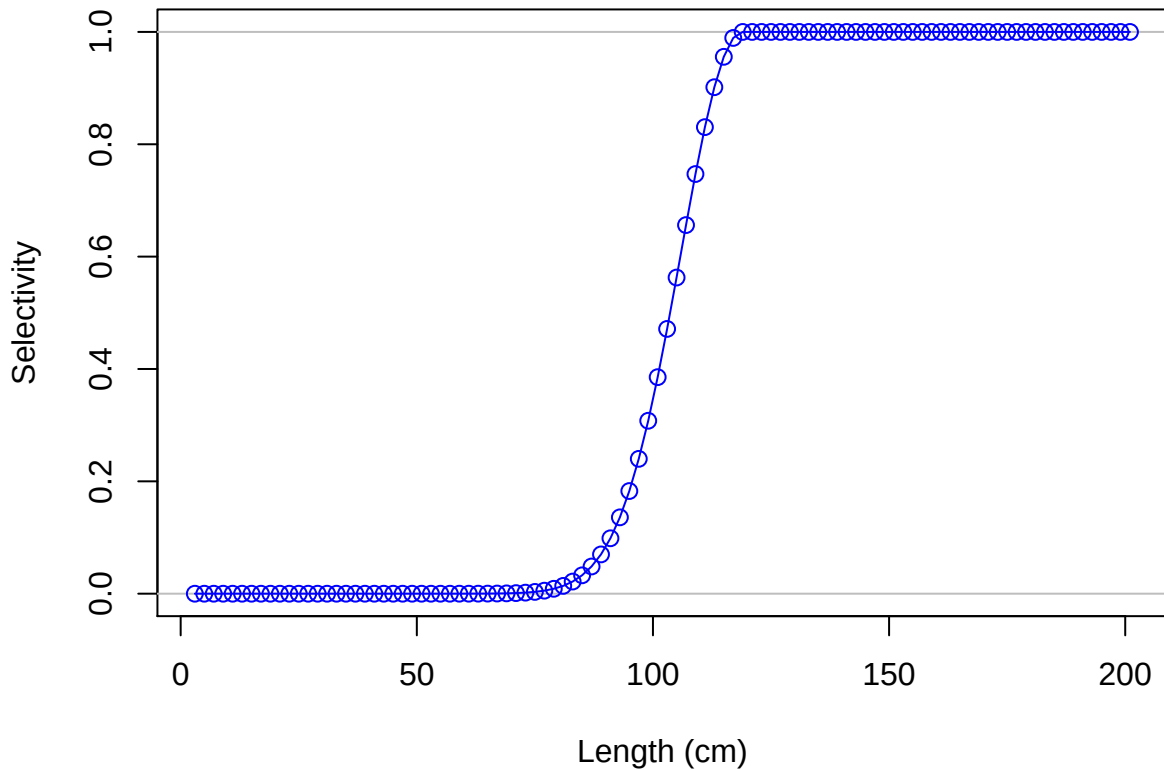
Female ending year selectivity for F36-LL\_C\_Q14w



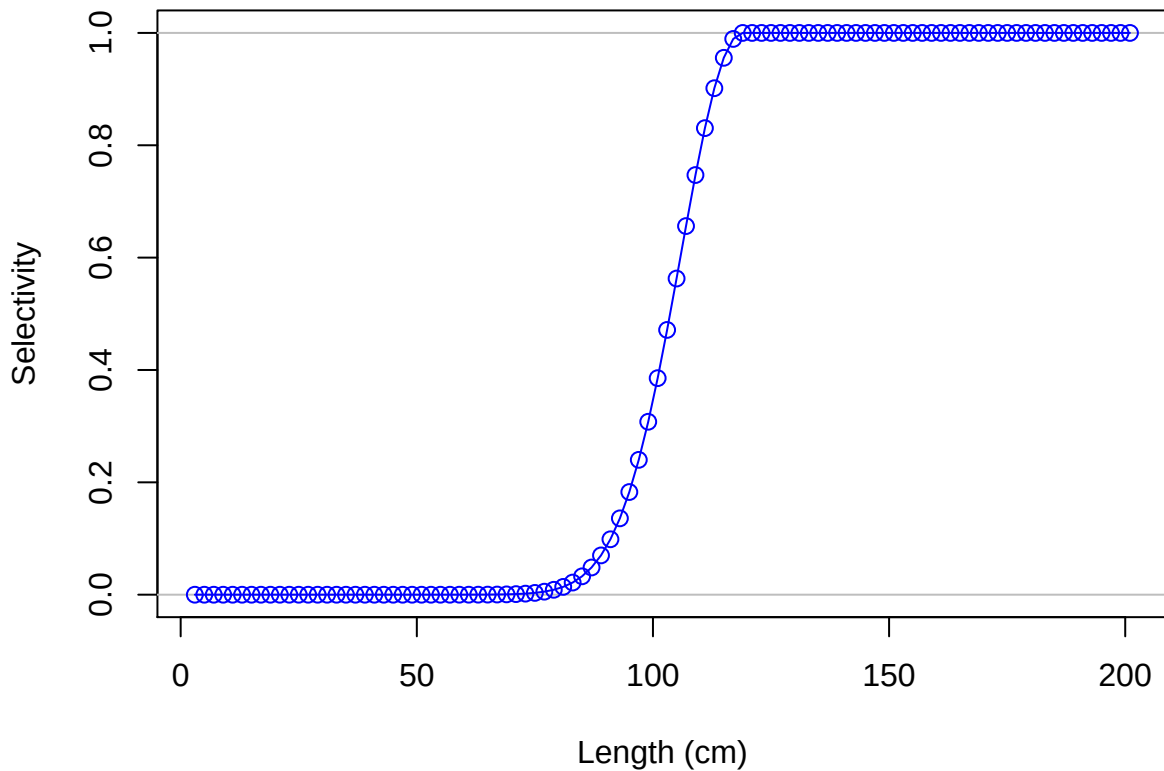
Male ending year selectivity for F36-LL\_C\_Q14w



**Female ending year selectivity for F37-LL\_E\_Q14w**

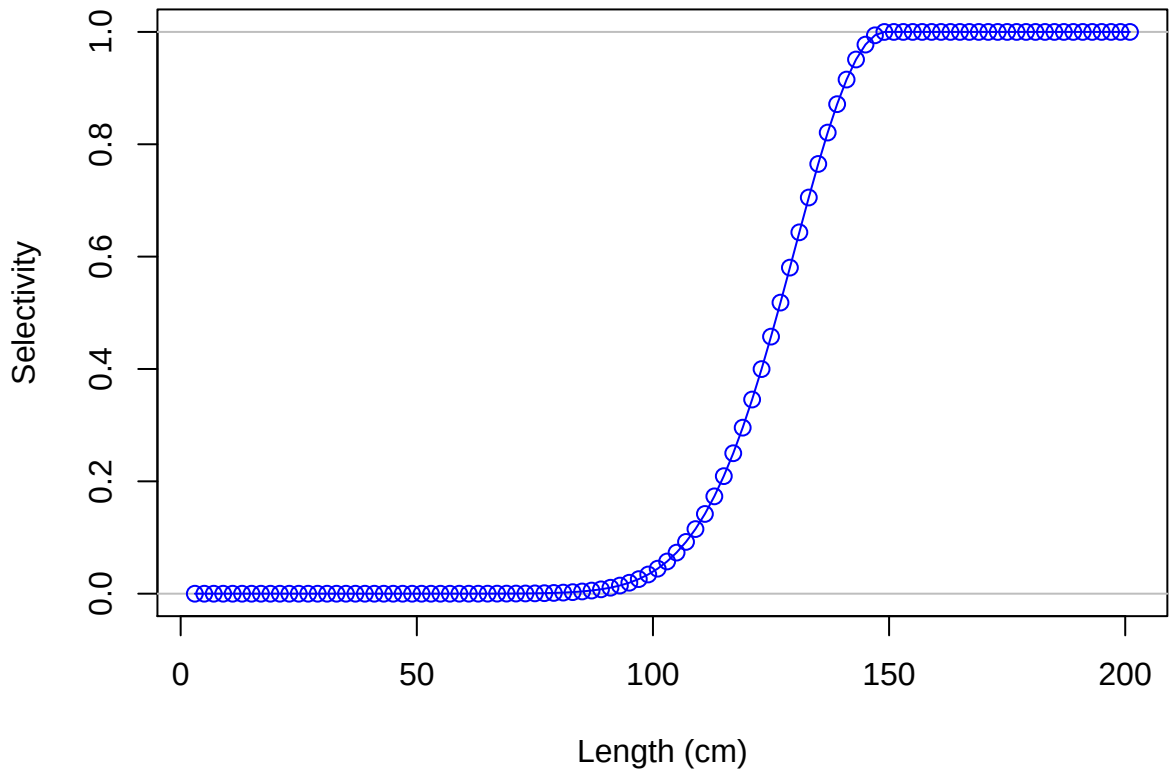


Male ending year selectivity for F37-LL\_E\_Q14w

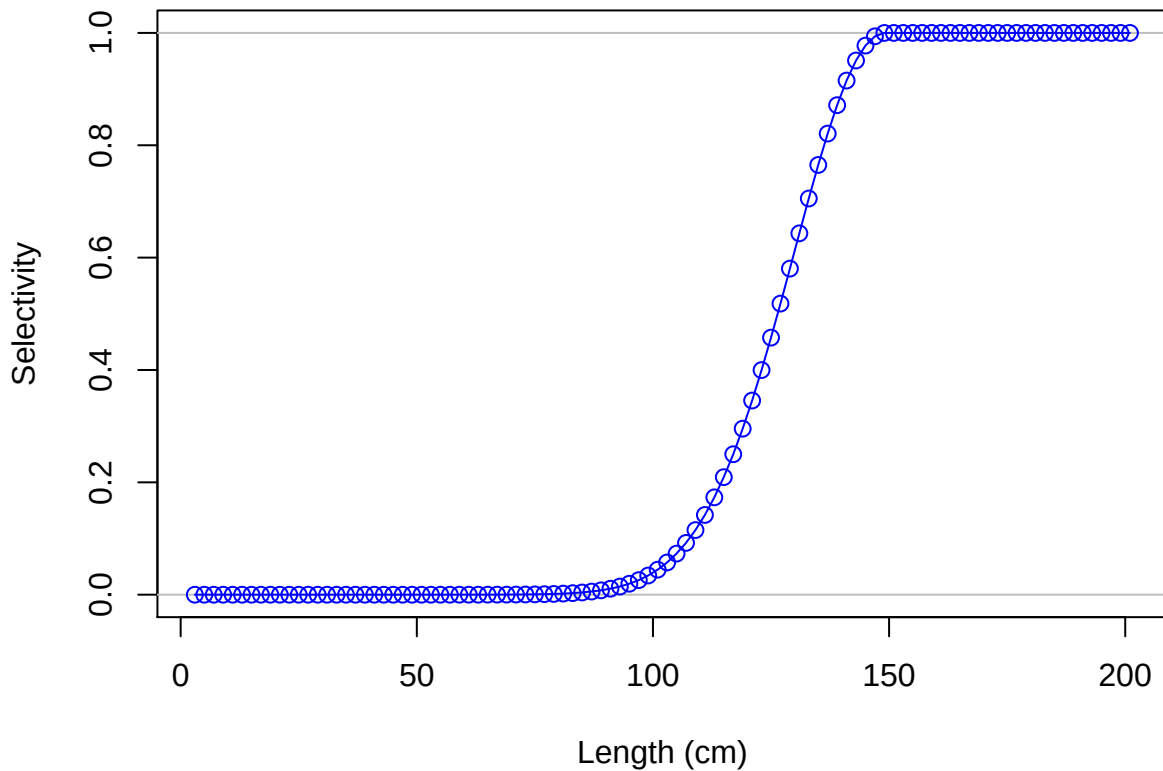




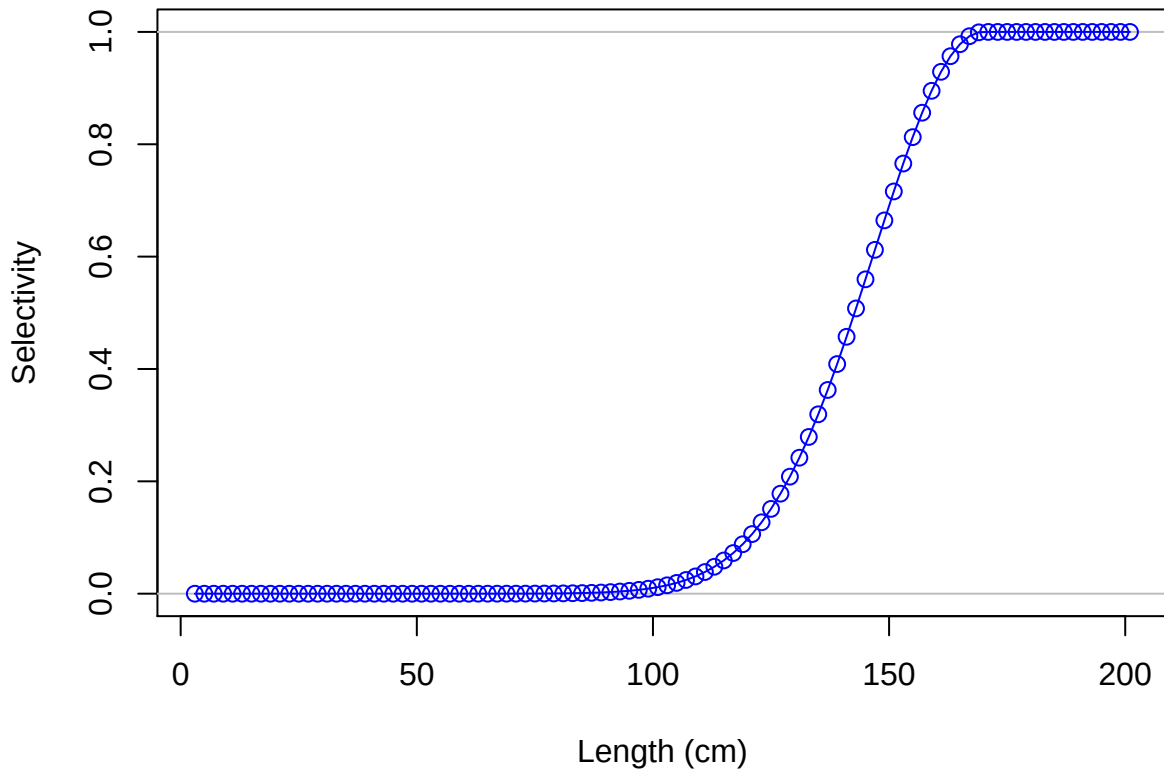
Female ending year selectivity for F38-LL\_W\_Q23w



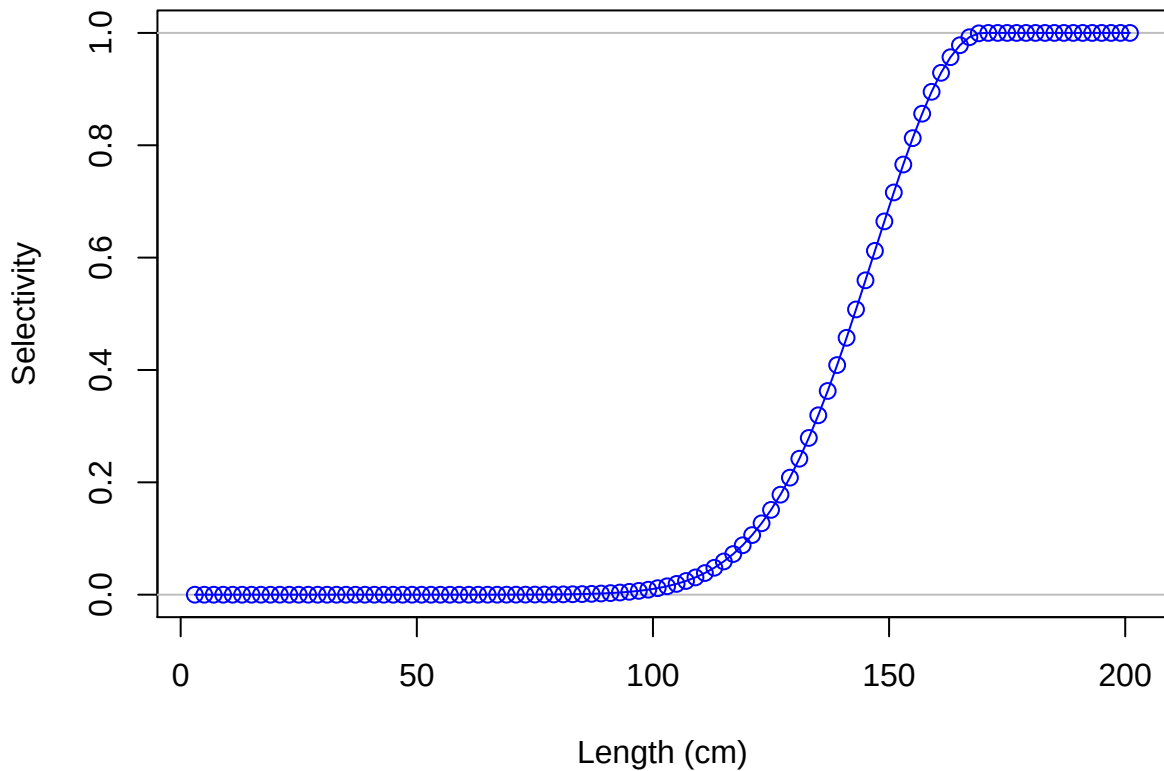
Male ending year selectivity for F38-LL\_W\_Q23w



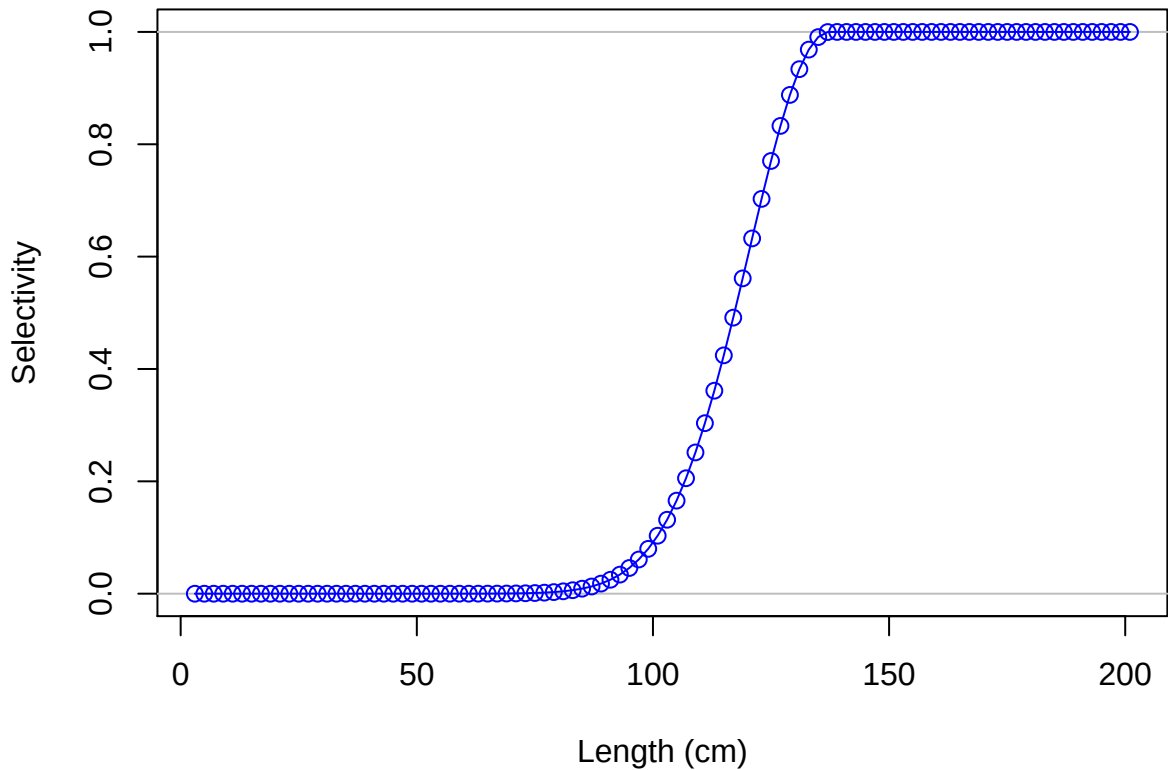
Female ending year selectivity for F39-LL\_C\_Q23w



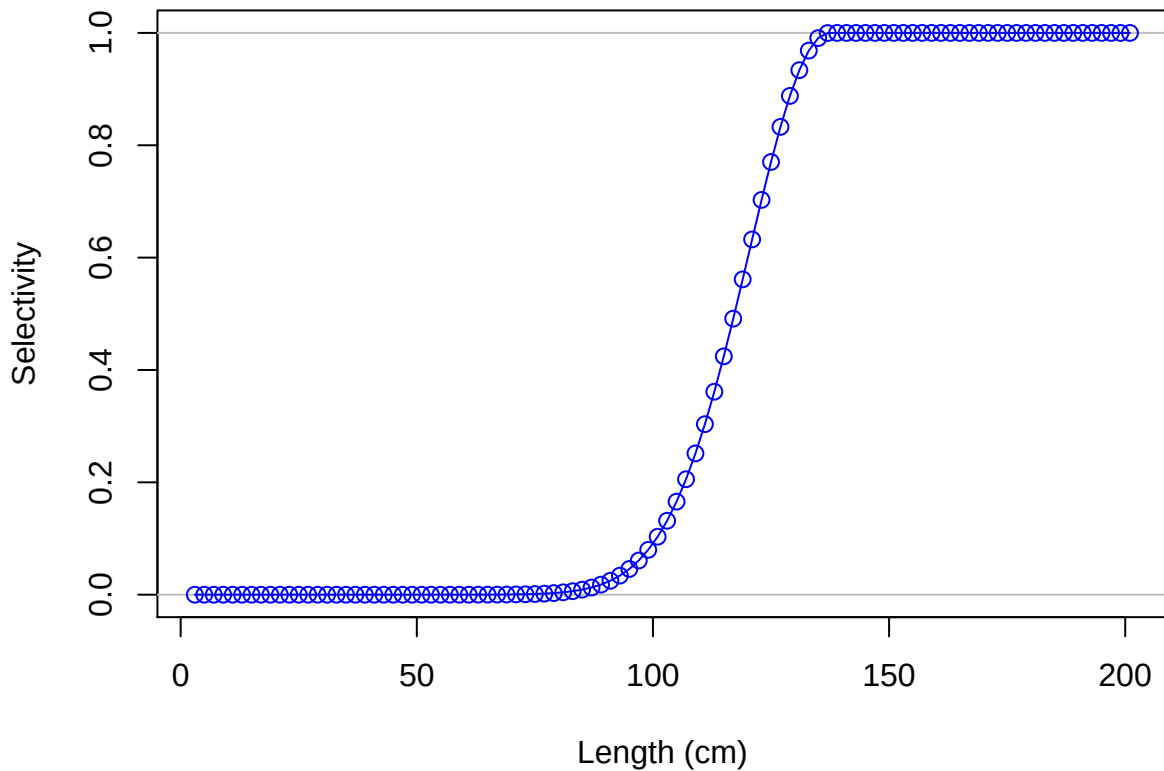
# Male ending year selectivity for F39-LL\_C\_Q23w



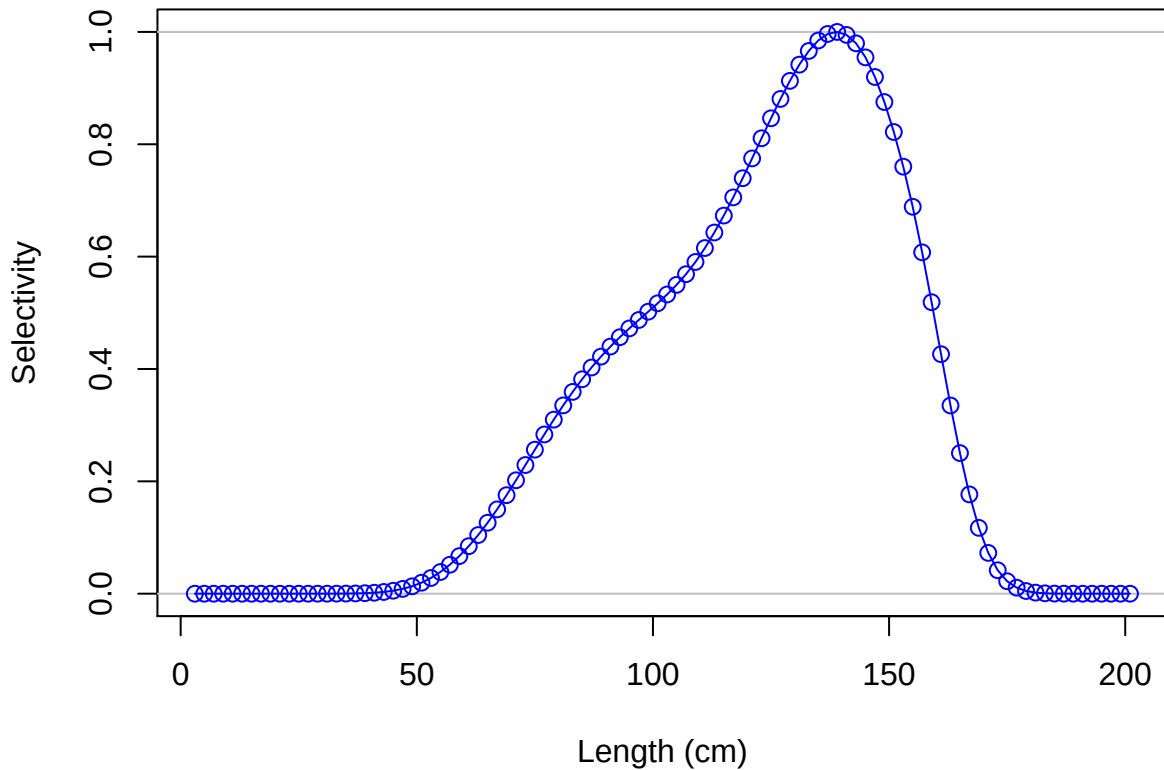
Female ending year selectivity for F40-LL\_E\_Q23w



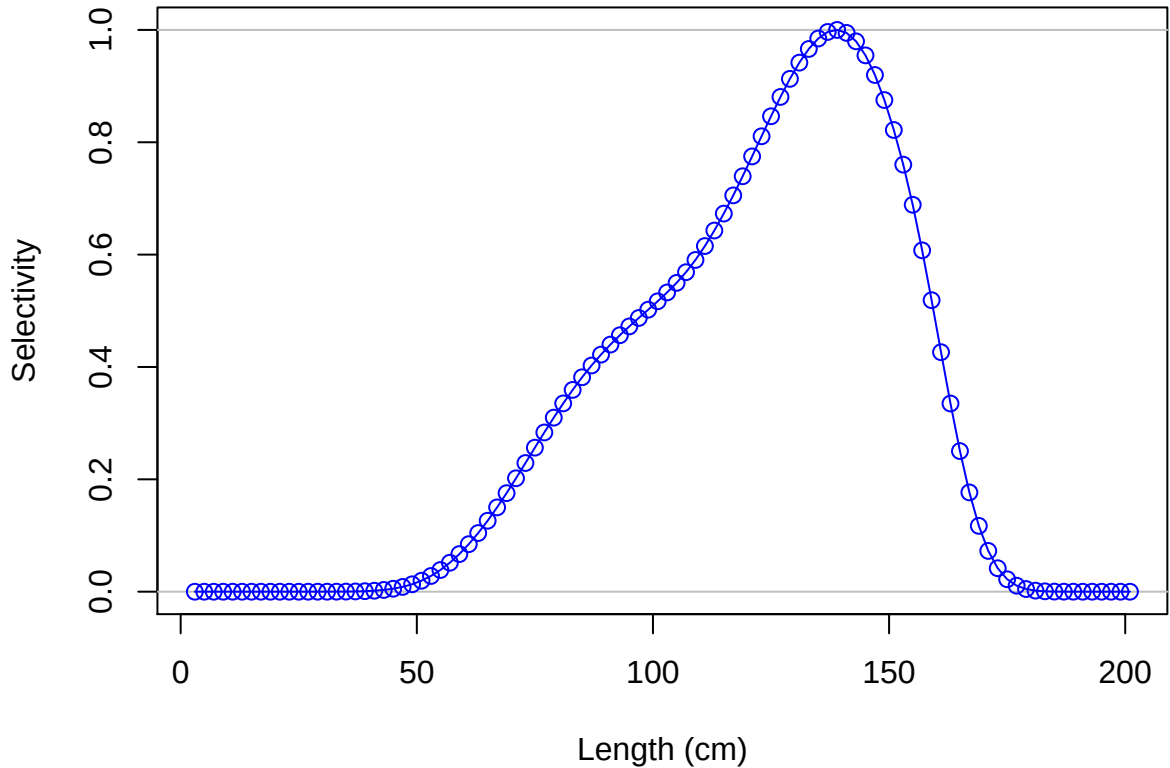
# Male ending year selectivity for F40-LL\_E\_Q23w



# Female ending year selectivity for S1-PS\_DEL\_VAST

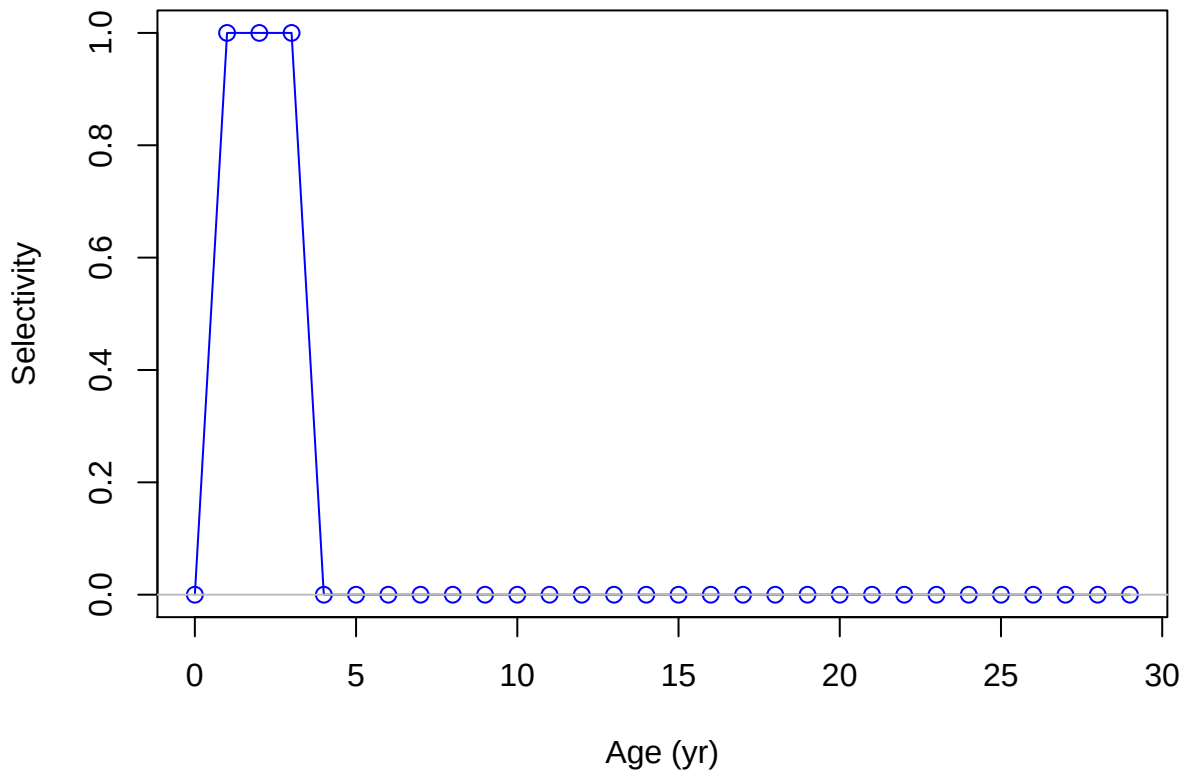


# Male ending year selectivity for S1-PS\_DEL\_VAST

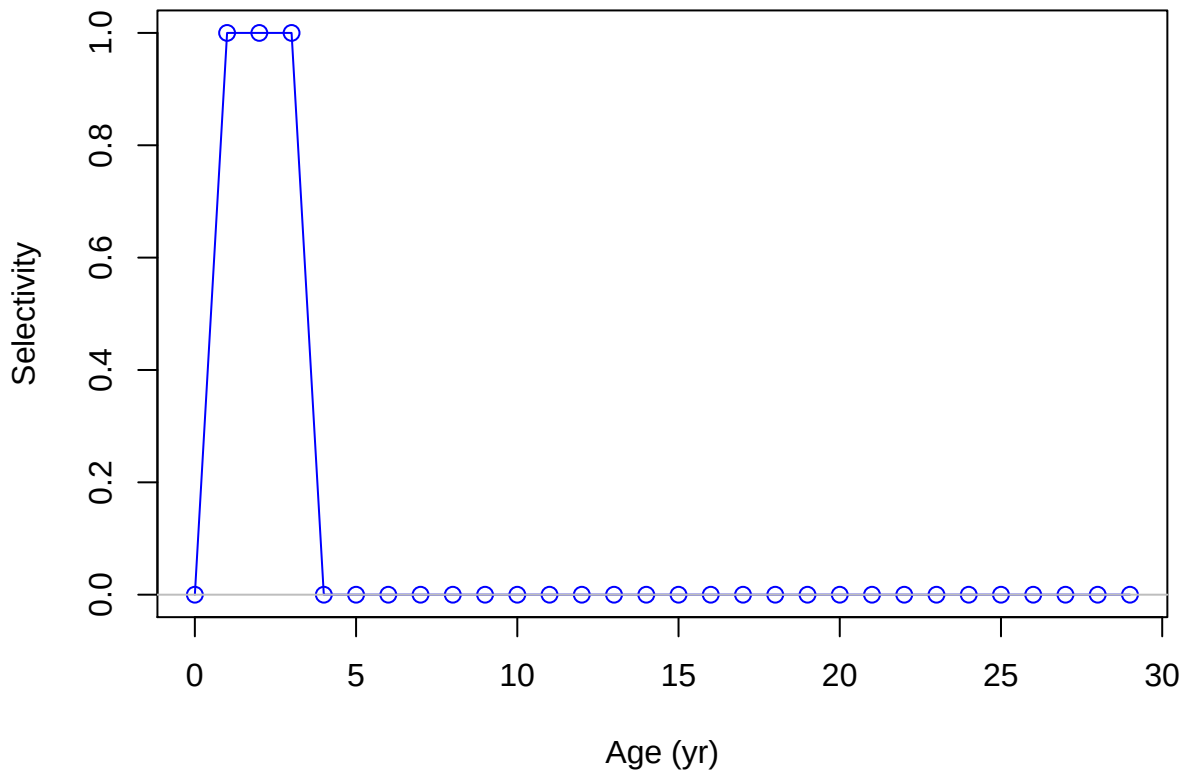




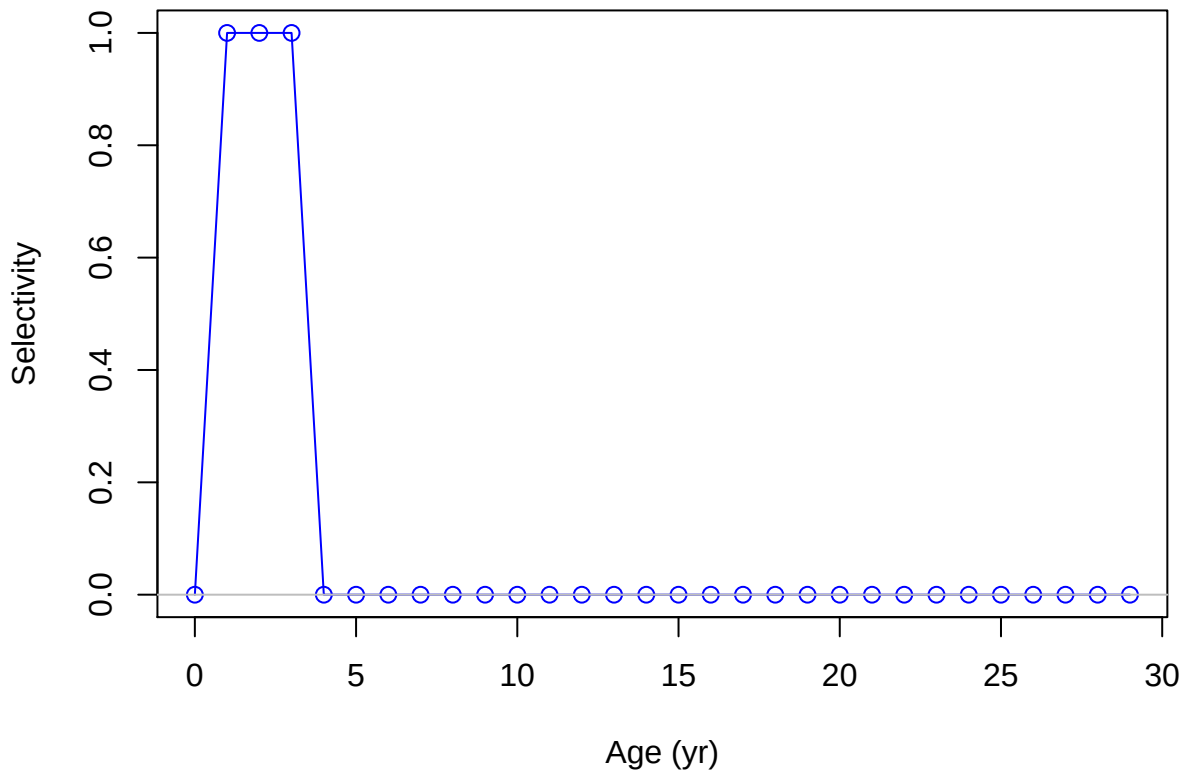
**Female ending year selectivity for F25-OBJ\_S\_disc**



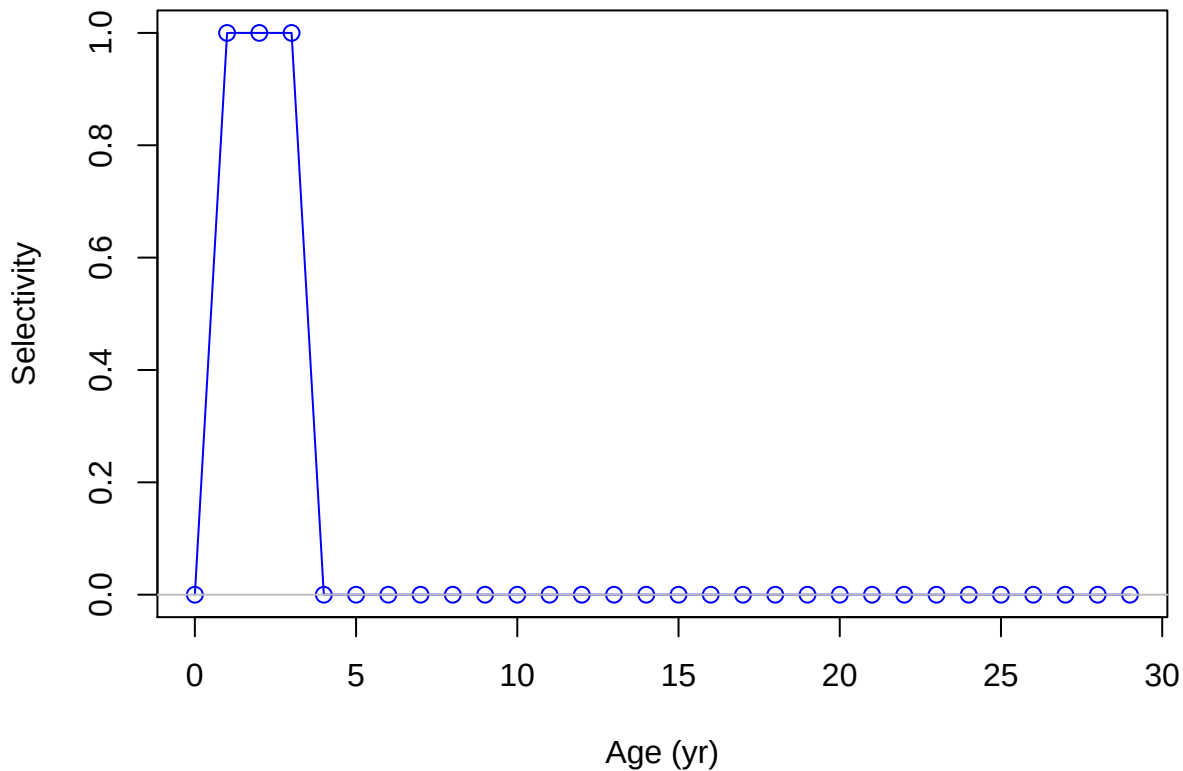
# Male ending year selectivity for F25-OBJ\_S\_disc



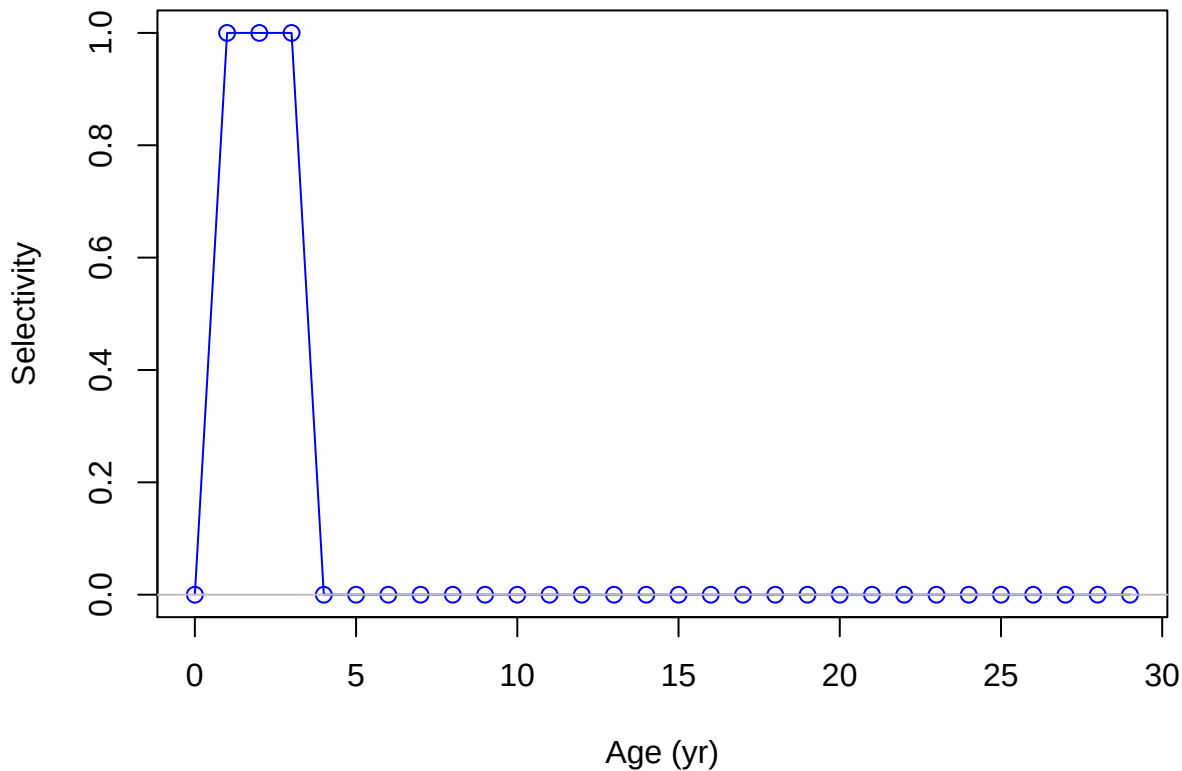
**Female ending year selectivity for F26-OBJ\_C\_disc**



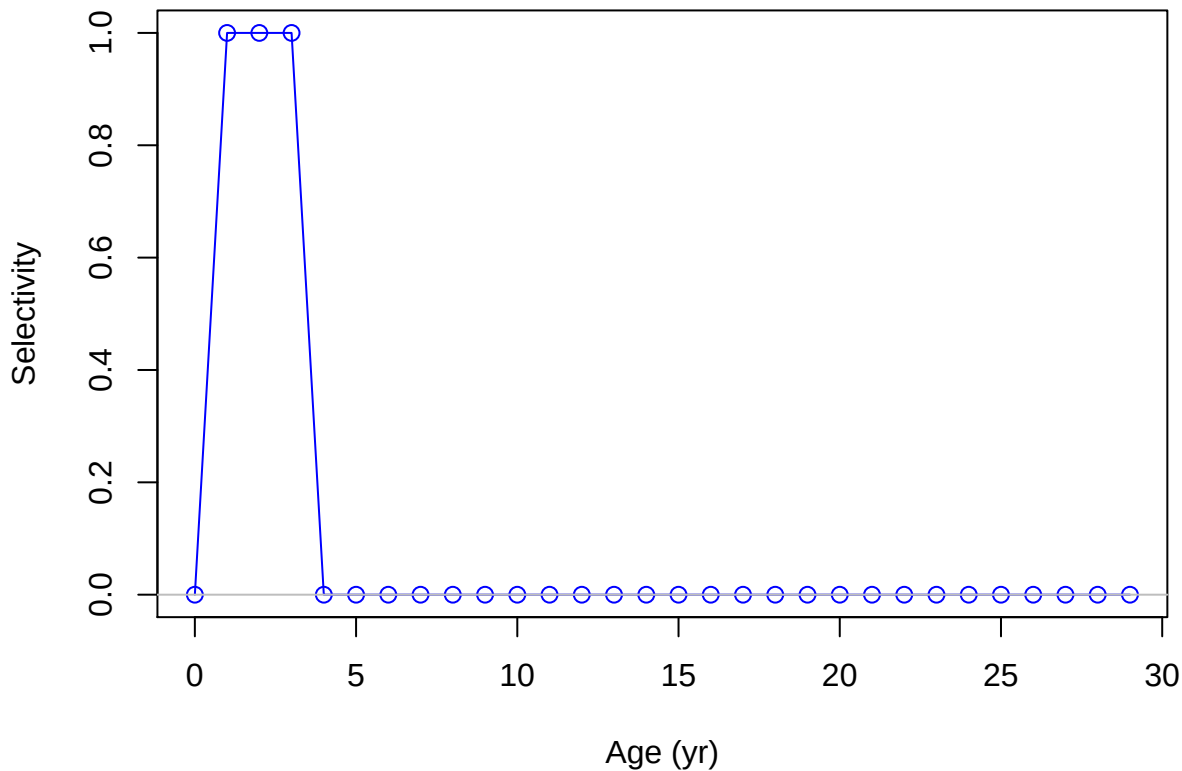
# Male ending year selectivity for F26-OBJ\_C\_disc



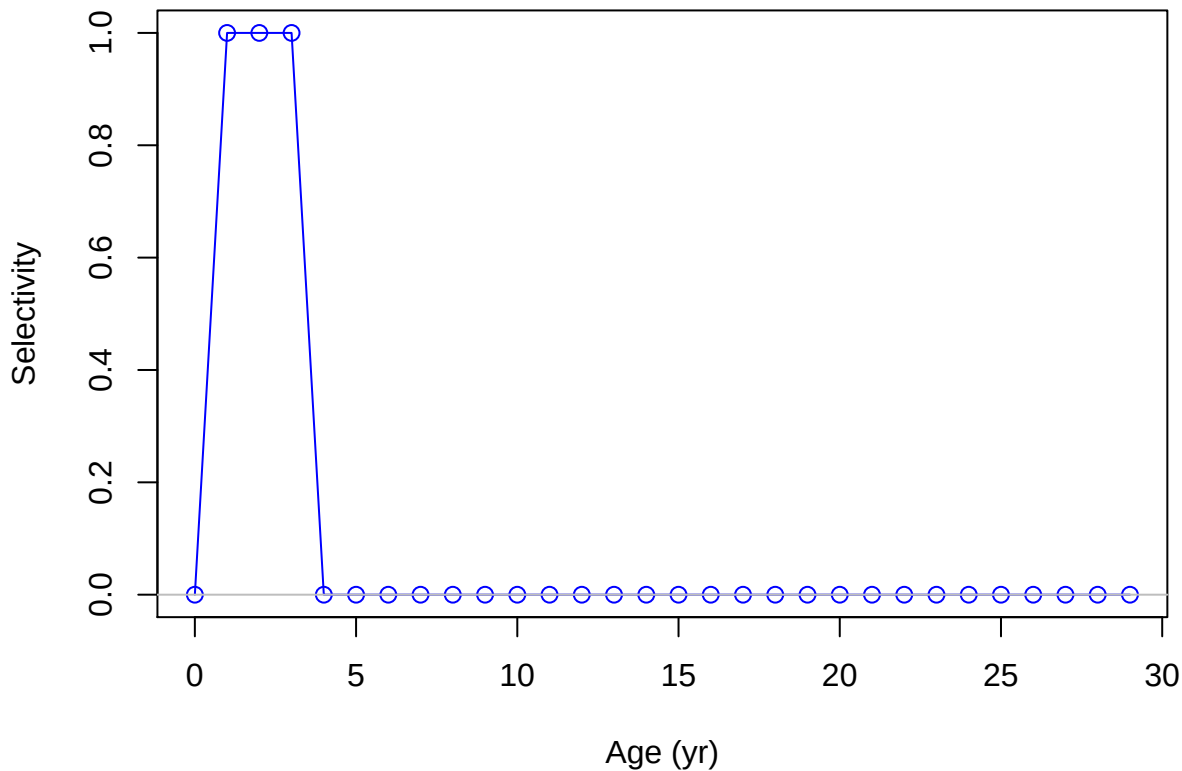
Female ending year selectivity for F27-OBJ\_I\_disc



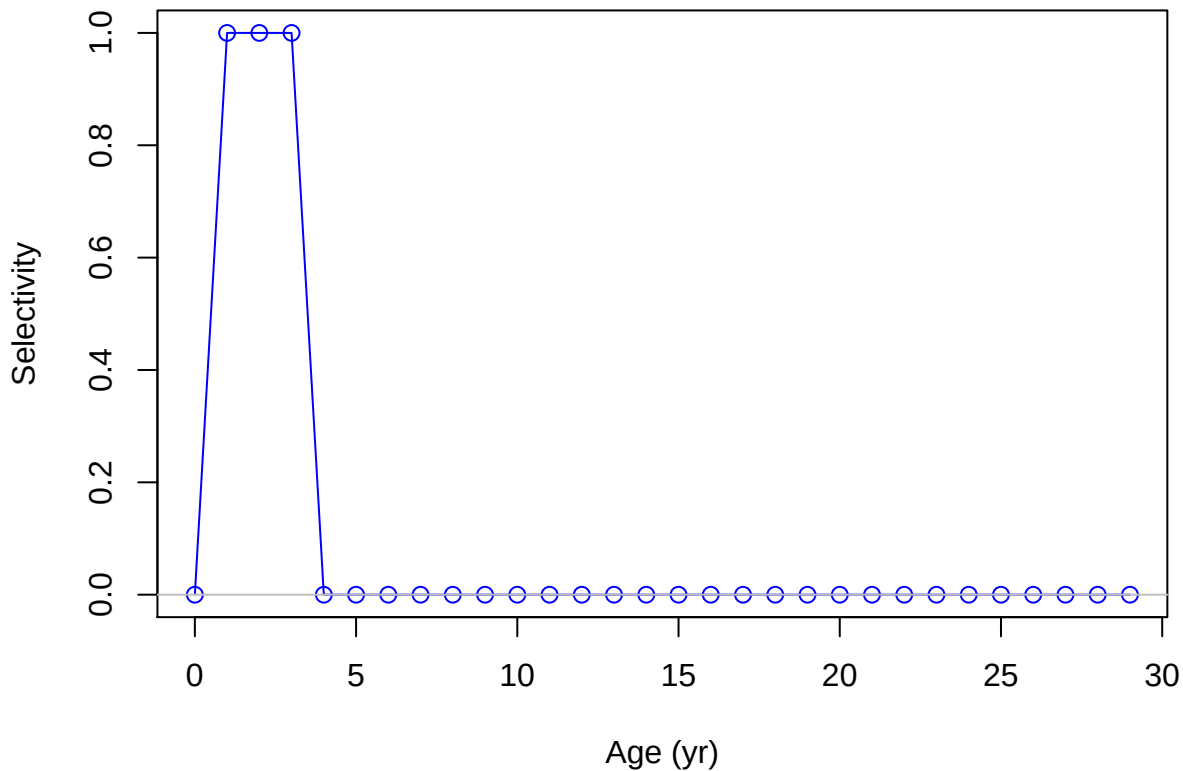
Male ending year selectivity for F27-OBJ\_I\_disc



**Female ending year selectivity for F28-OBJ\_N\_disc**

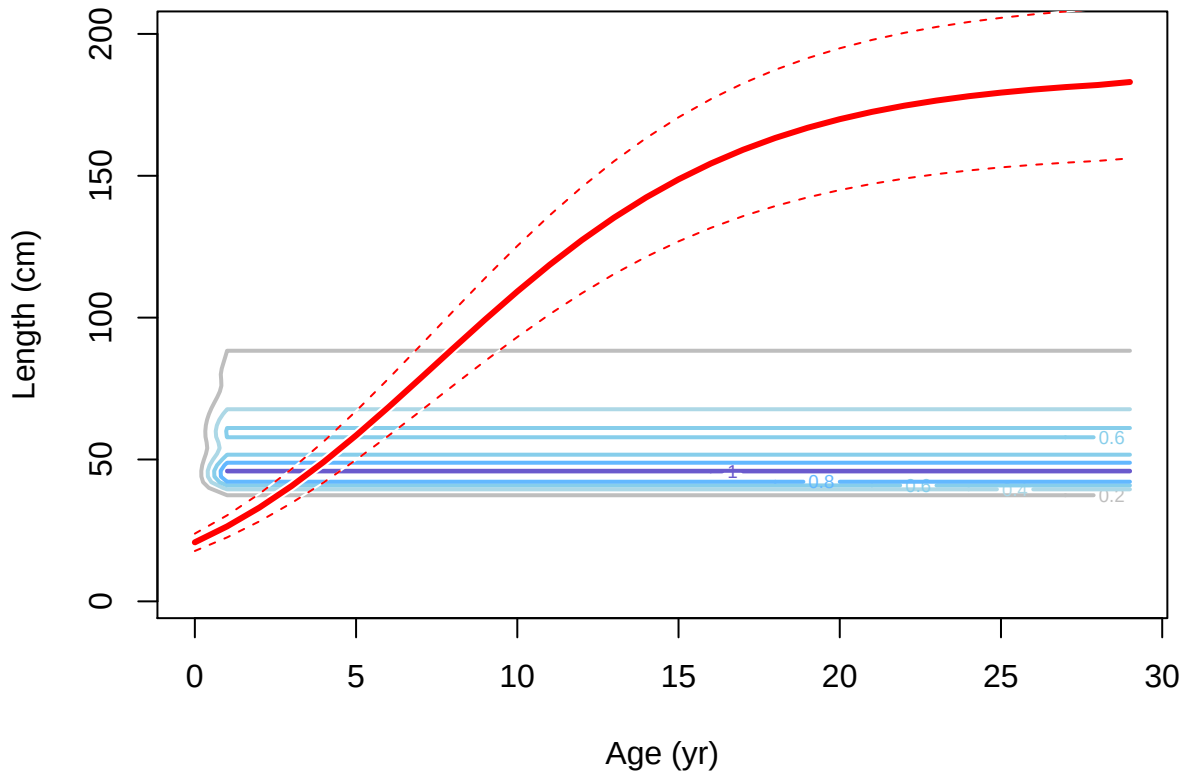


**Male ending year selectivity for F28-OBJ\_N\_disc**

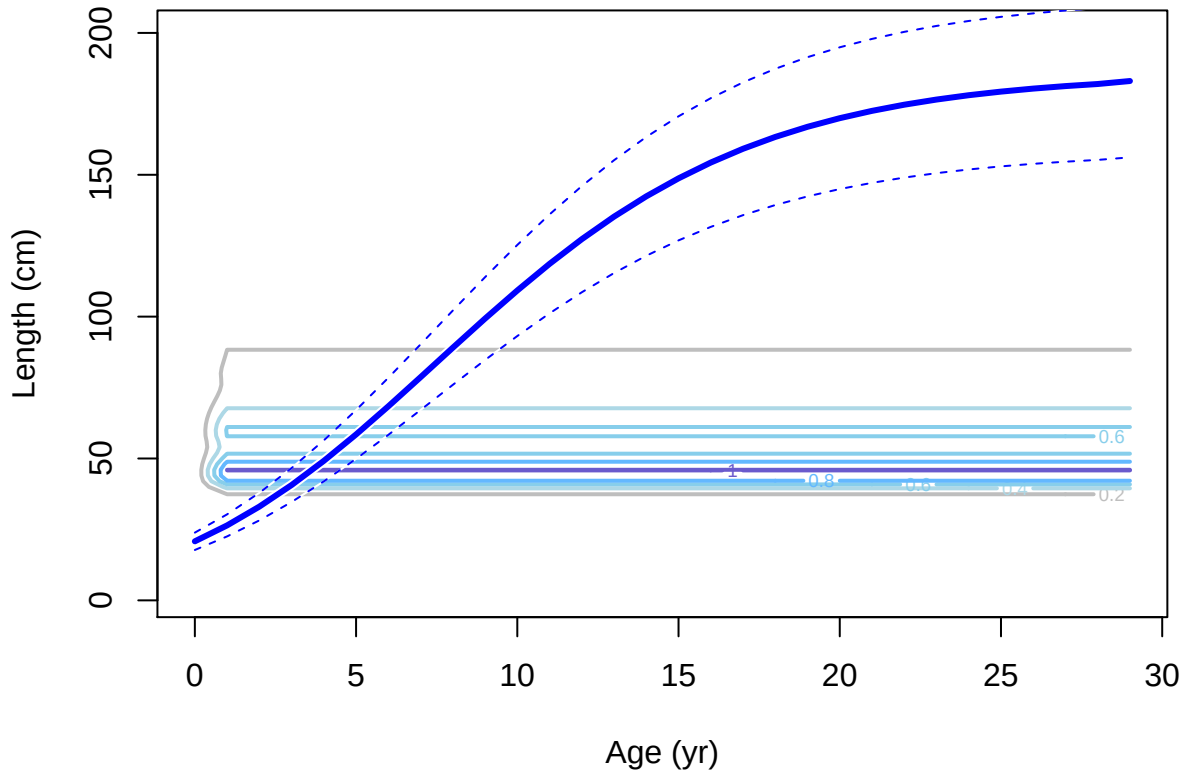




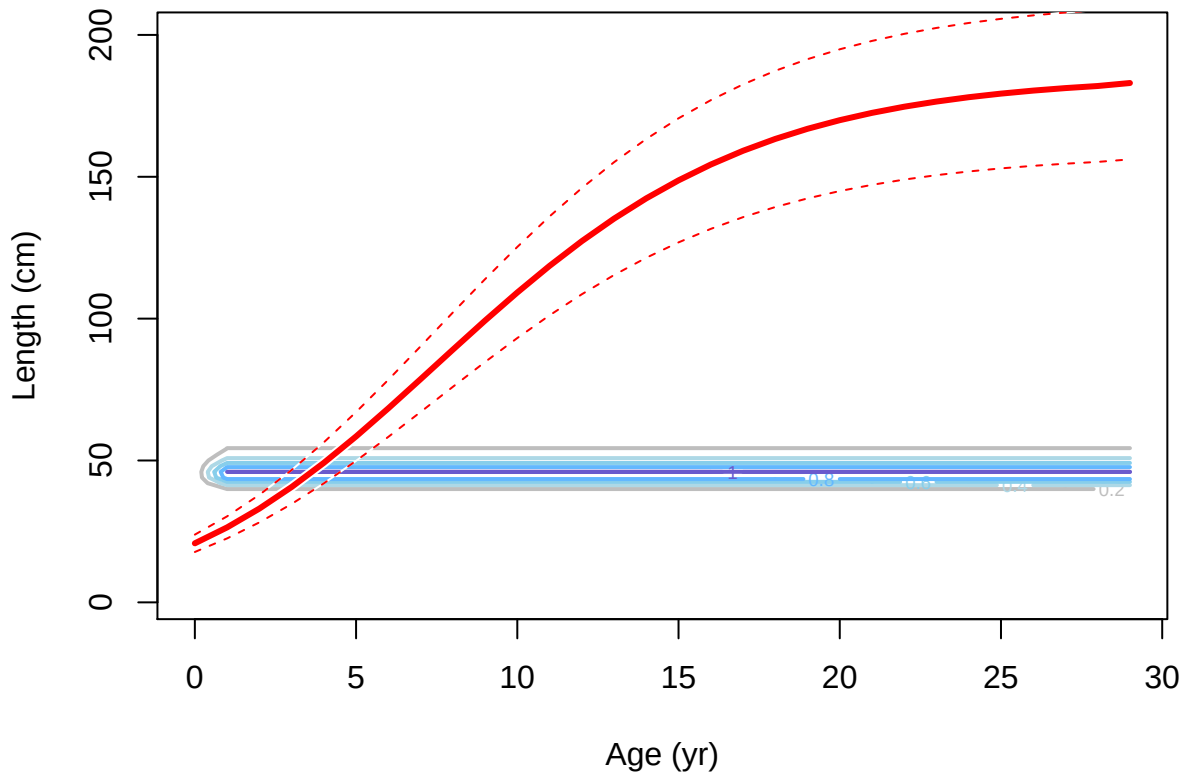
## Female ending year selectivity and growth for F1-OBJ\_N-Q14



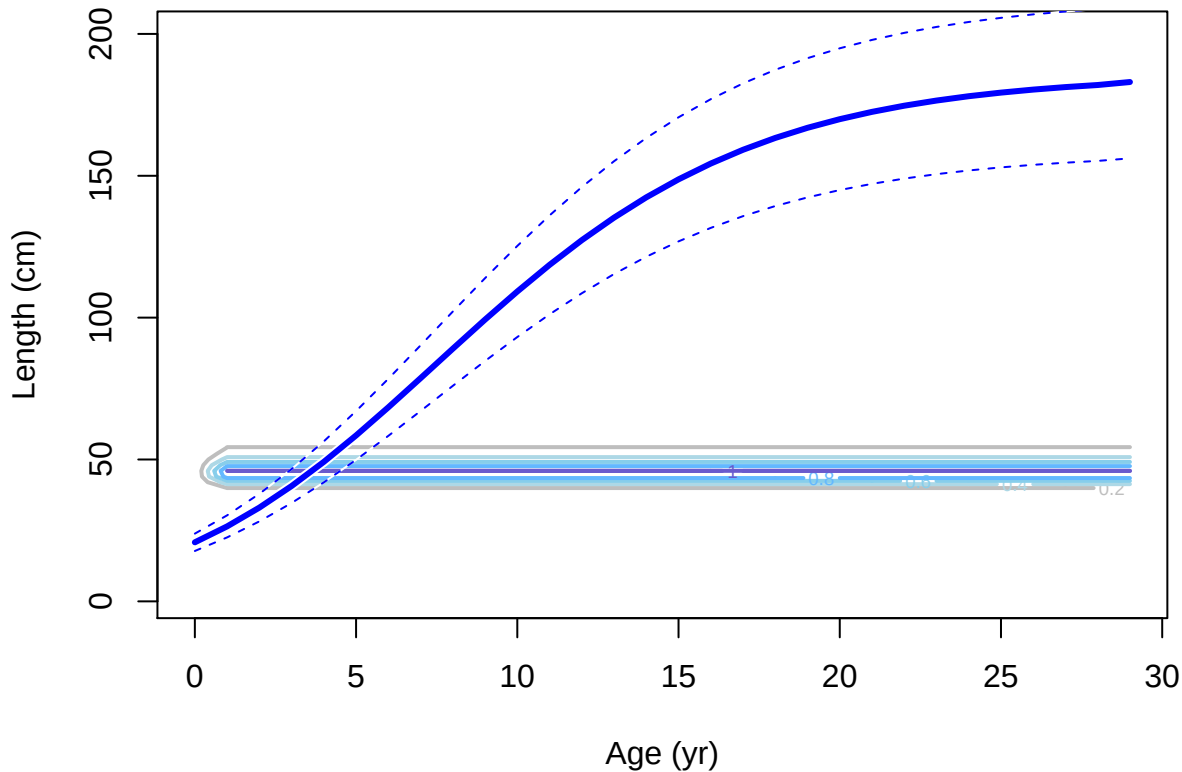
# Male ending year selectivity and growth for F1-OBJ\_N-Q14



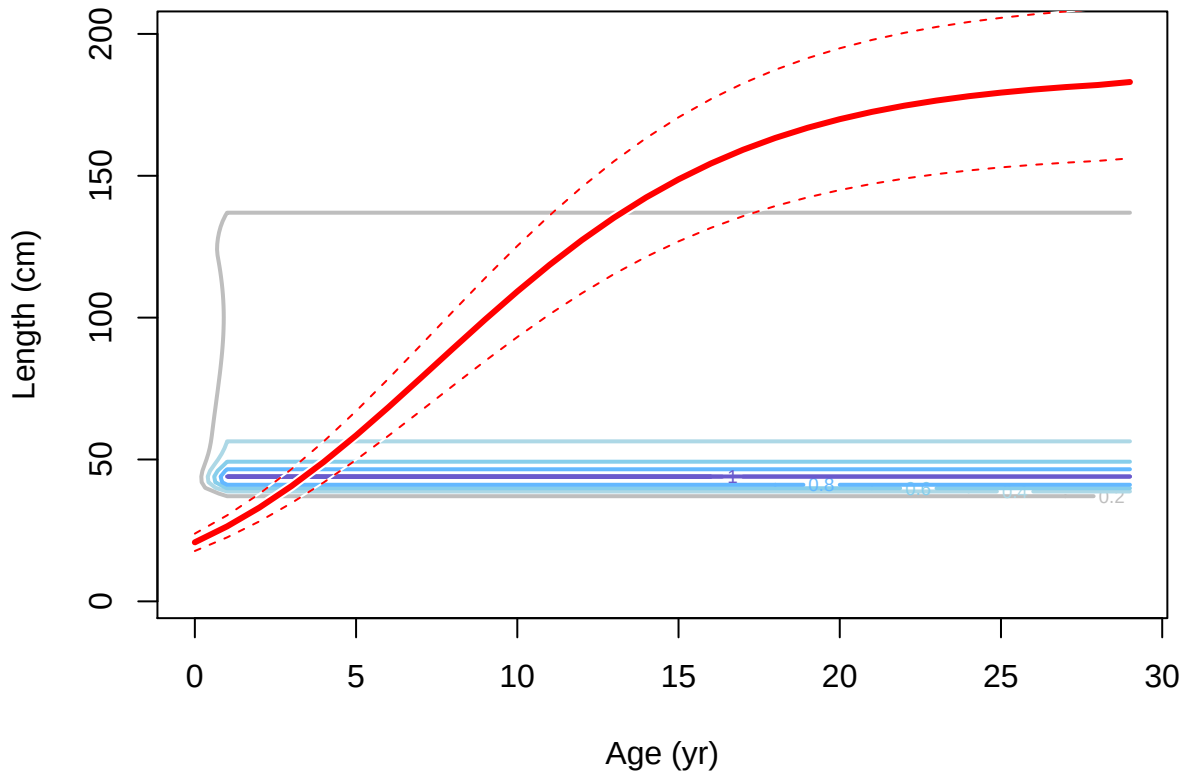
## Female ending year selectivity and growth for F2-OBJ\_Nc\_Q14



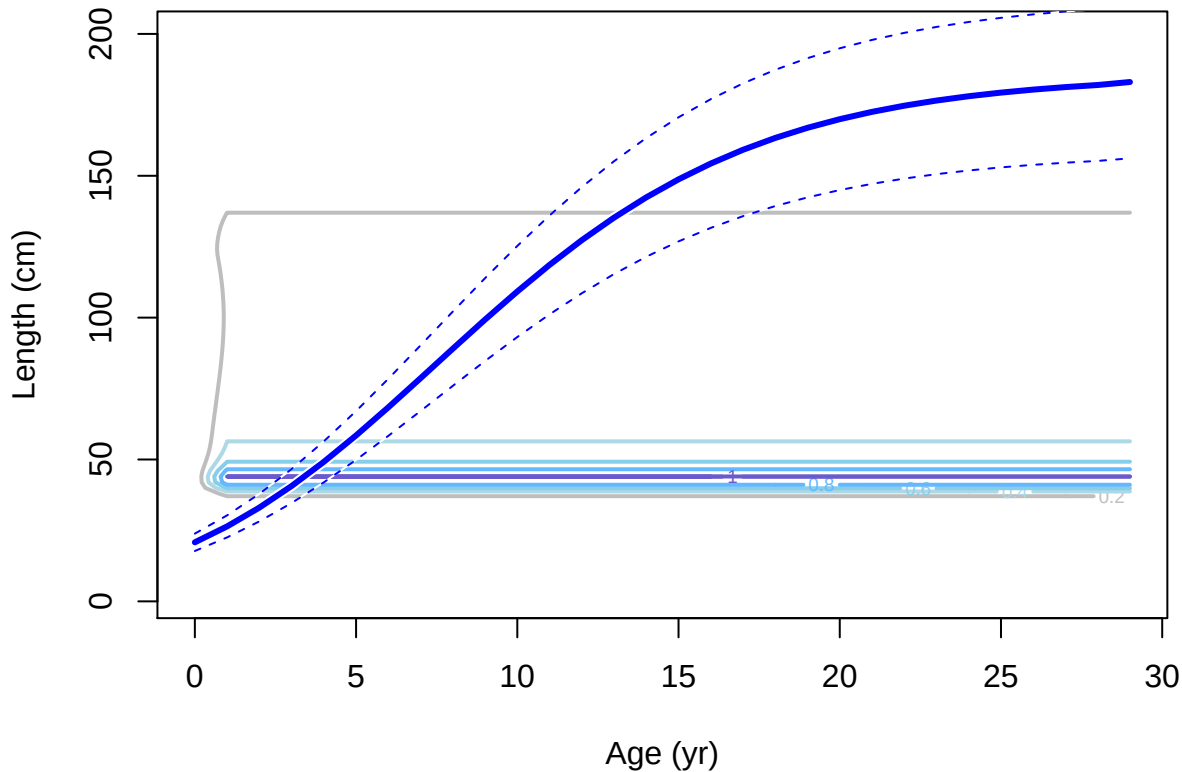
# Male ending year selectivity and growth for F2-OBJ\_Nc\_Q14



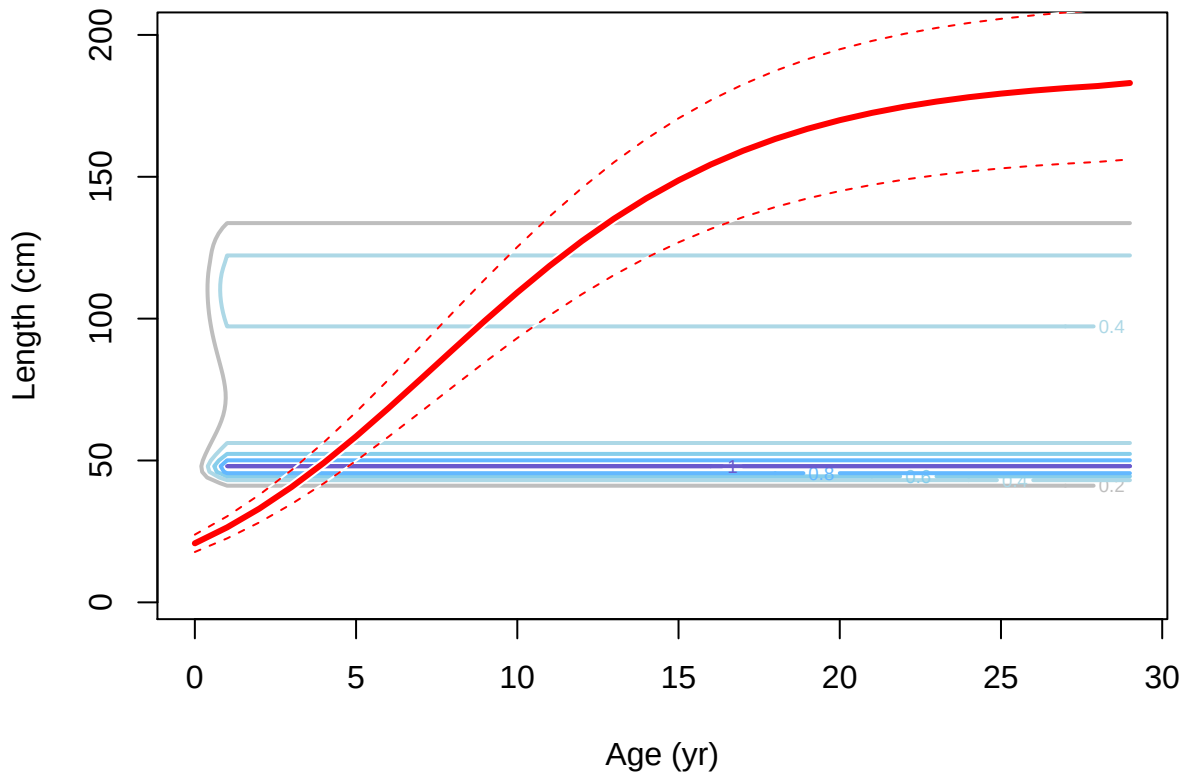
## Female ending year selectivity and growth for F3-OBJ\_C\_Q14



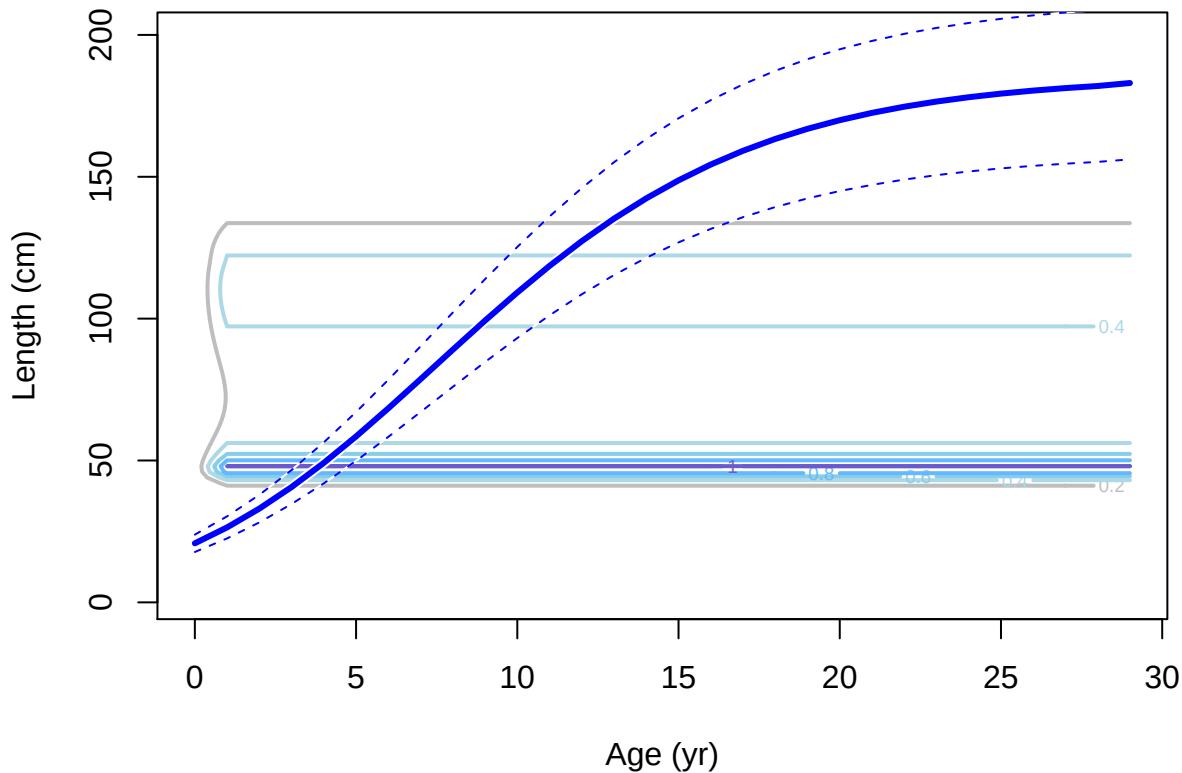
# Male ending year selectivity and growth for F3-OBJ\_C\_Q14



## Female ending year selectivity and growth for F4-OBJ\_Cc\_Q14

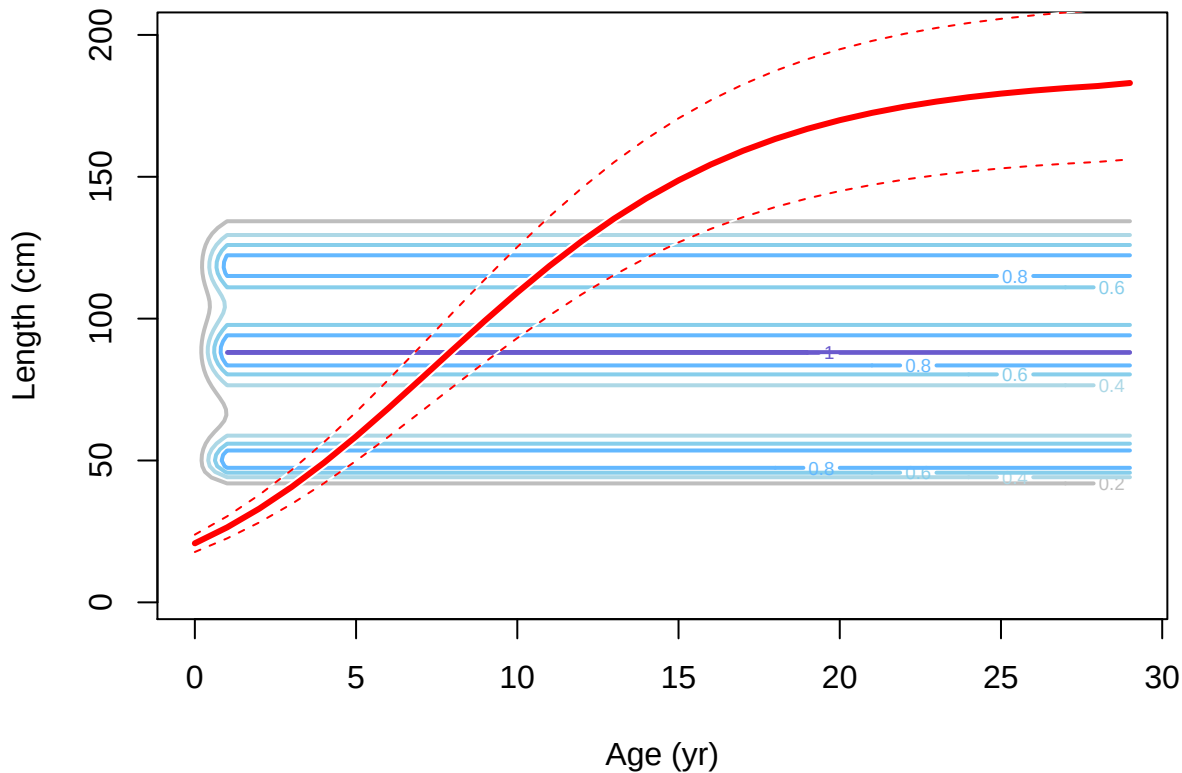


# Male ending year selectivity and growth for F4-OBJ\_Cc\_Q14

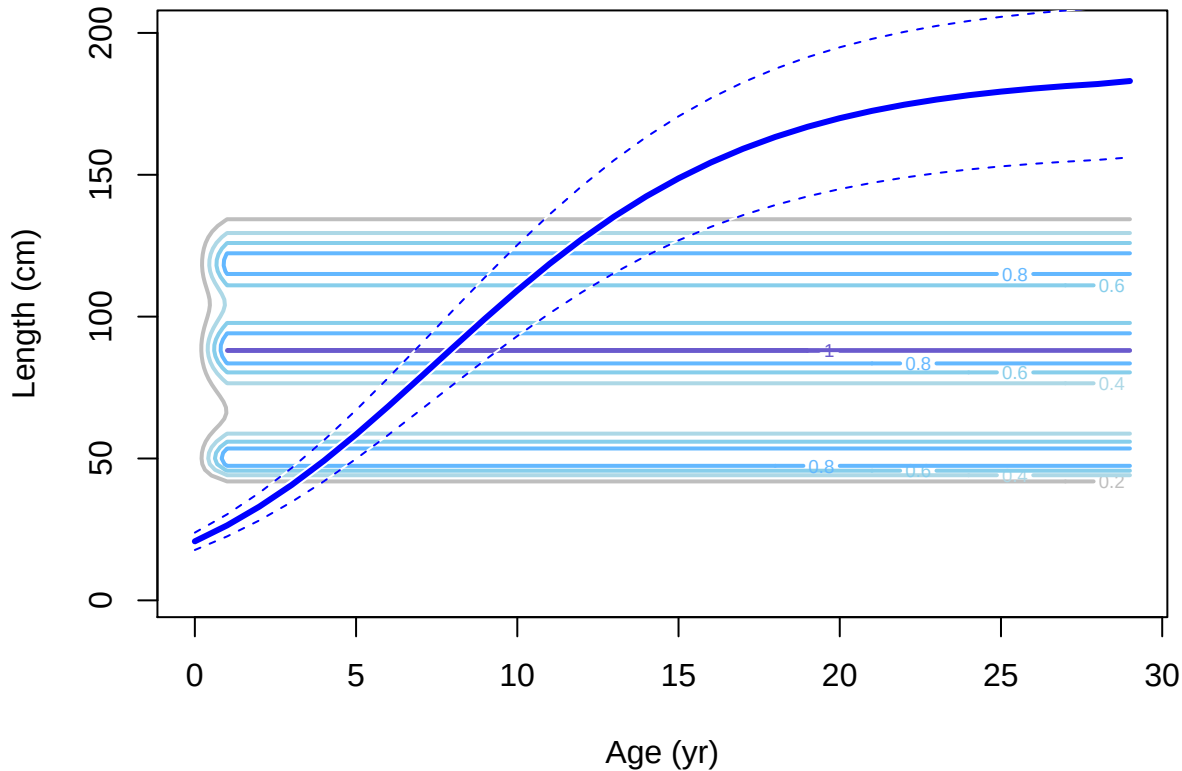




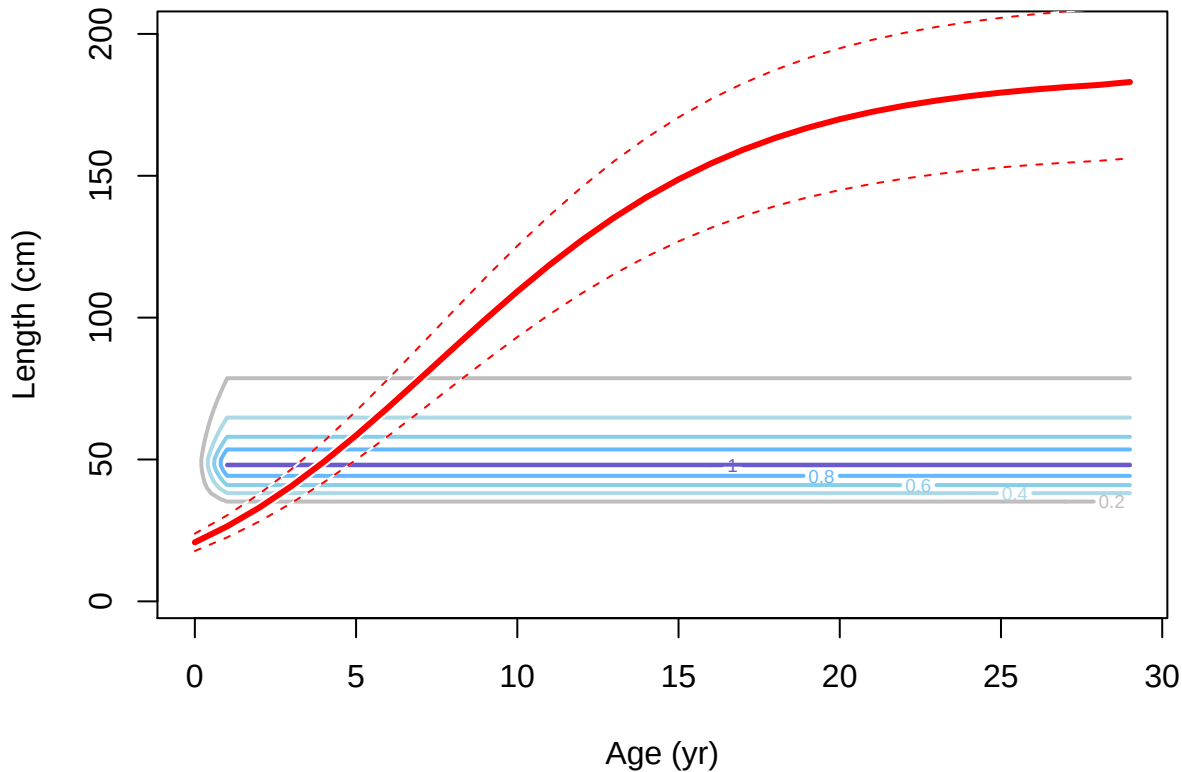
## Female ending year selectivity and growth for F5-OBJ\_S\_Q14



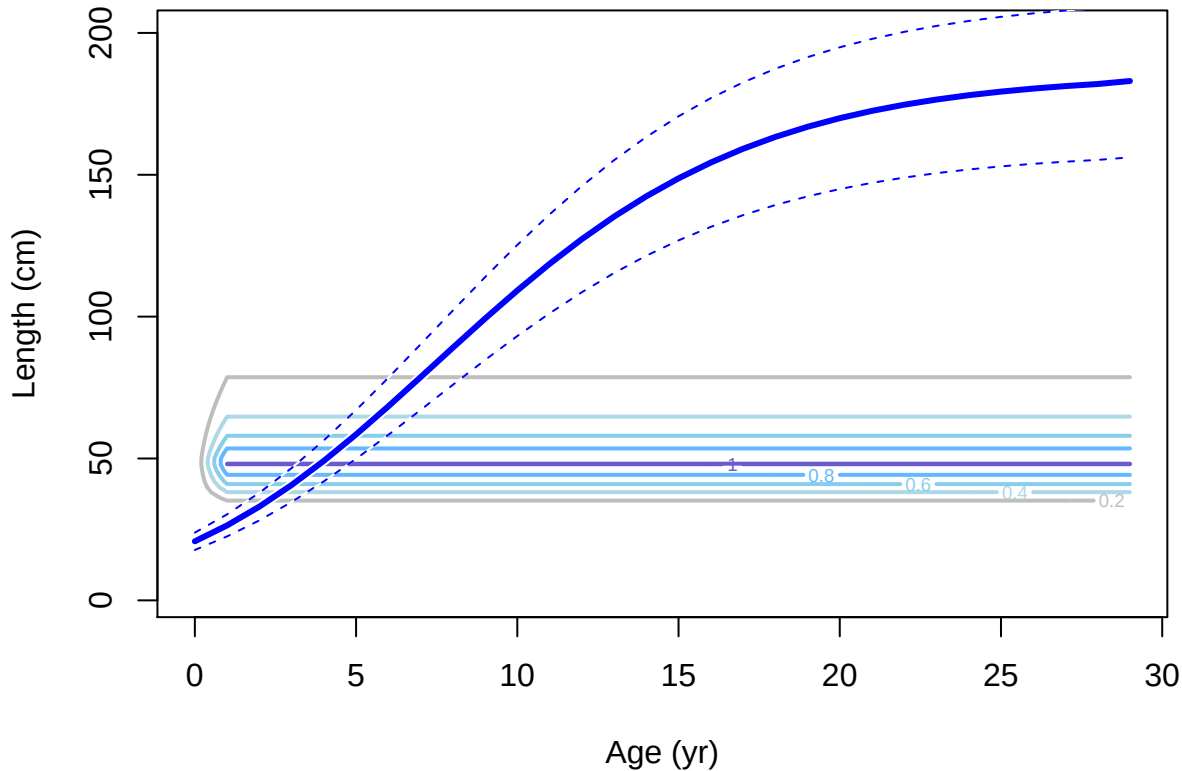
# Male ending year selectivity and growth for F5-OBJ\_S\_Q14



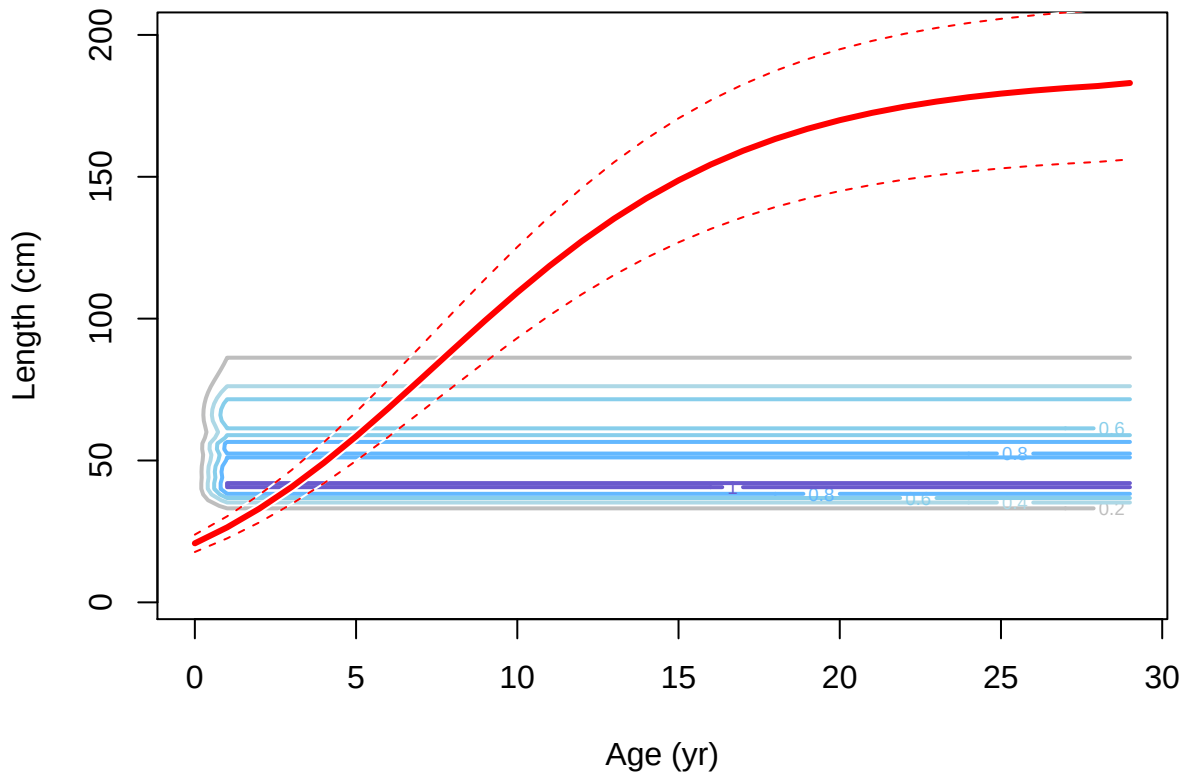
## Female ending year selectivity and growth for F6-OBJ\_N\_Q23



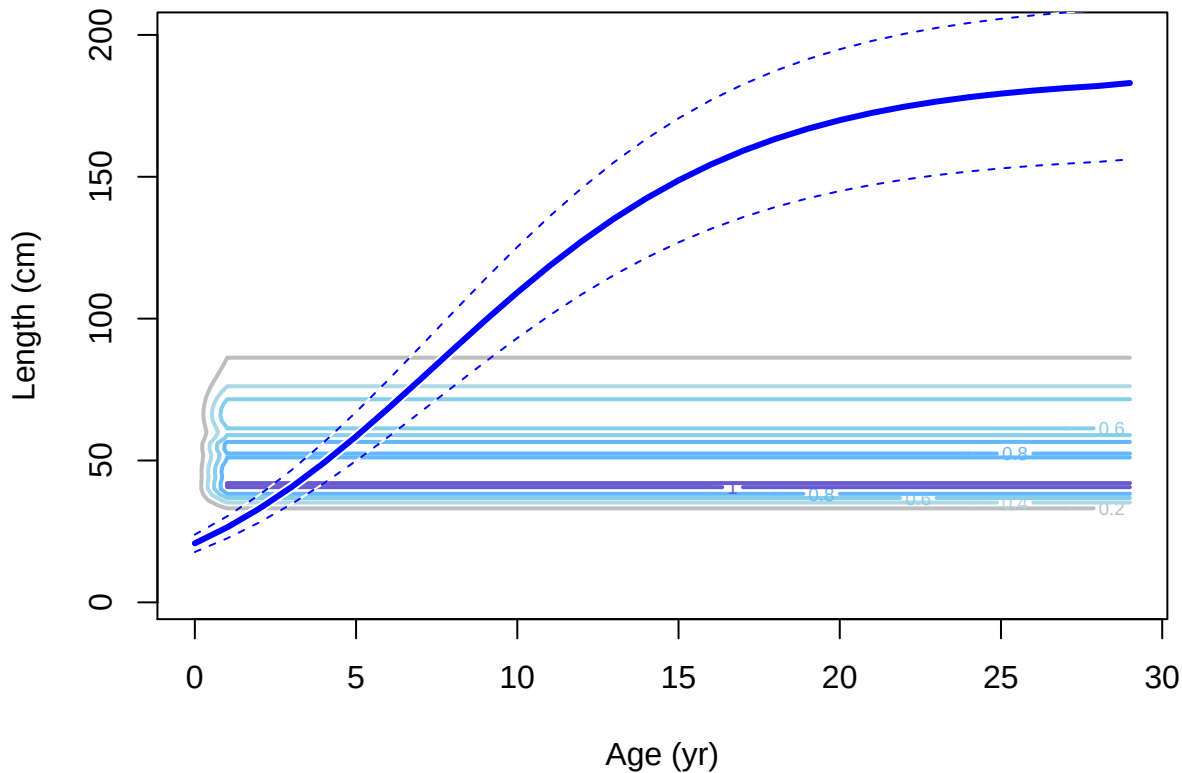
# Male ending year selectivity and growth for F6-OBJ\_N\_Q23



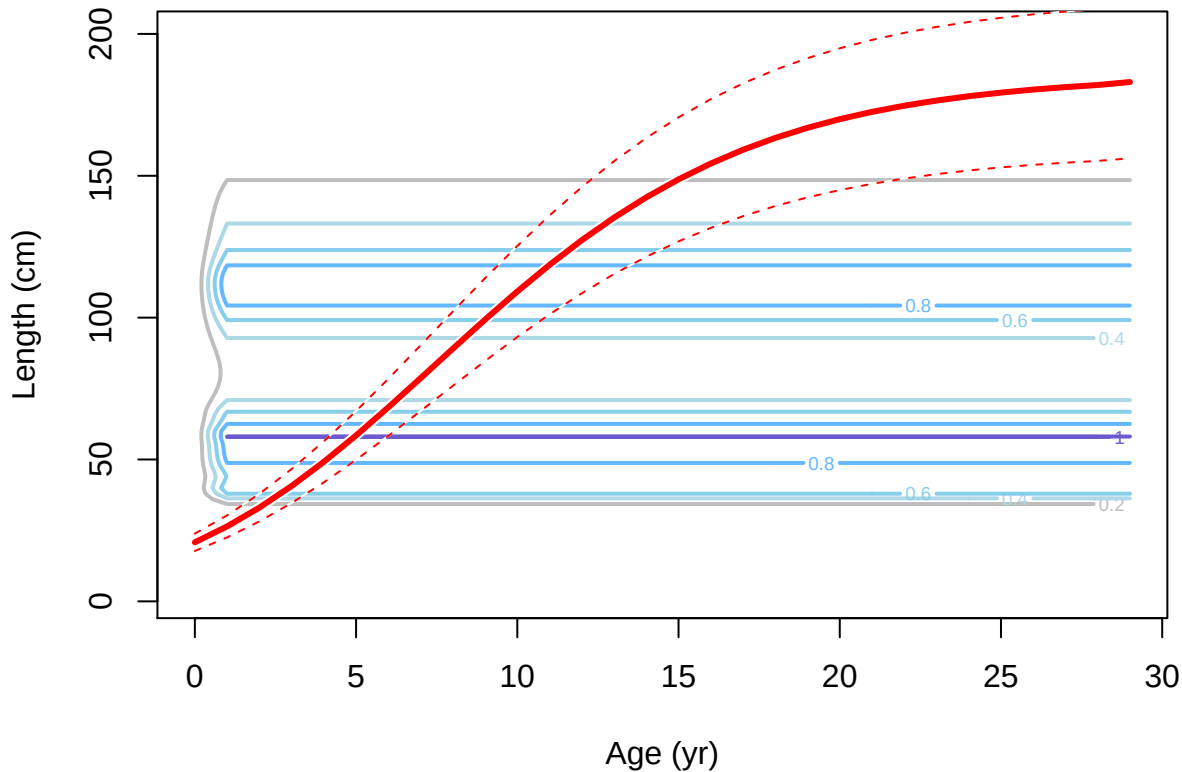
## Female ending year selectivity and growth for F7-OBJ\_Nc\_Q23



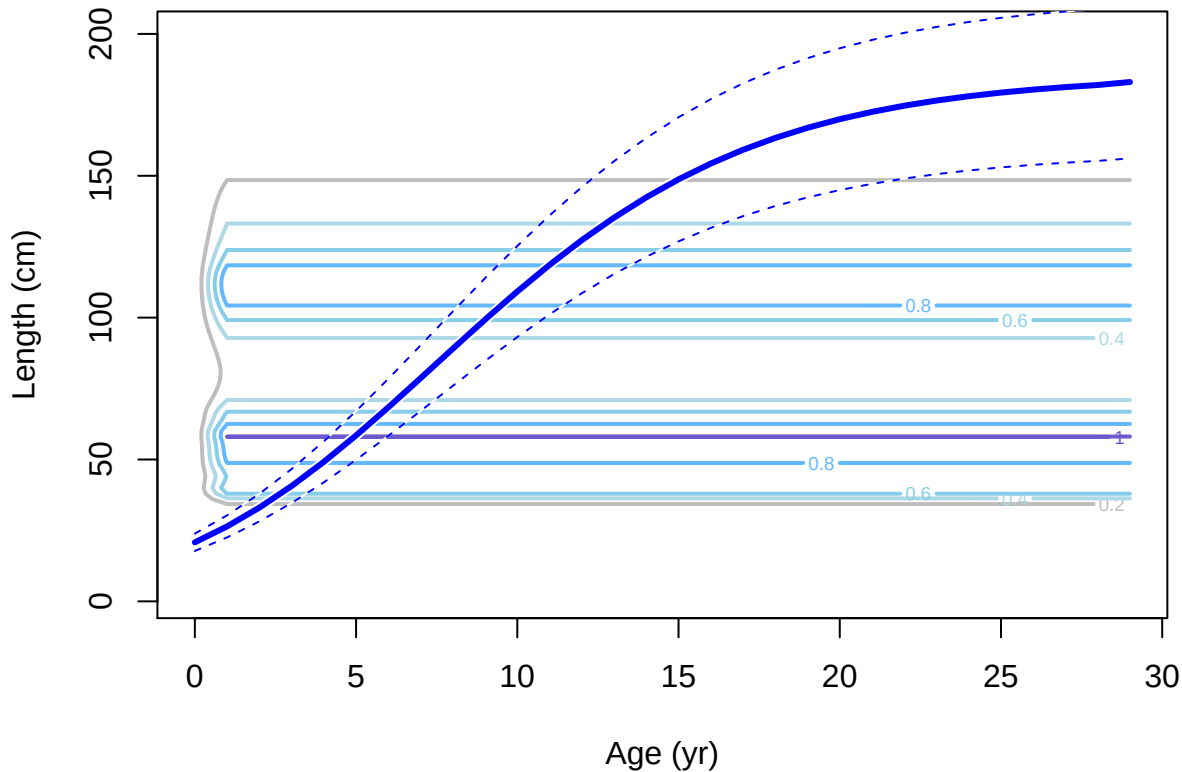
# Male ending year selectivity and growth for F7-OBJ\_Nc\_Q23



## Female ending year selectivity and growth for F8-OBJ\_C\_Q23

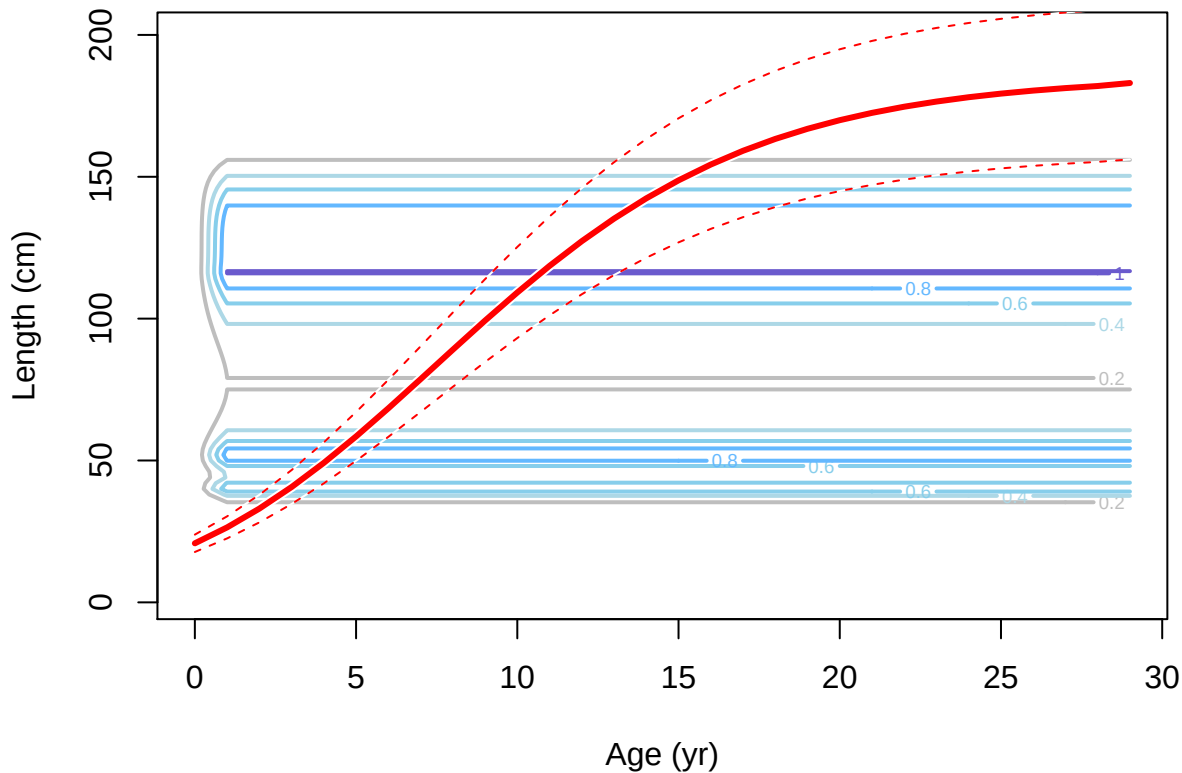


# Male ending year selectivity and growth for F8-OBJ\_C\_Q23

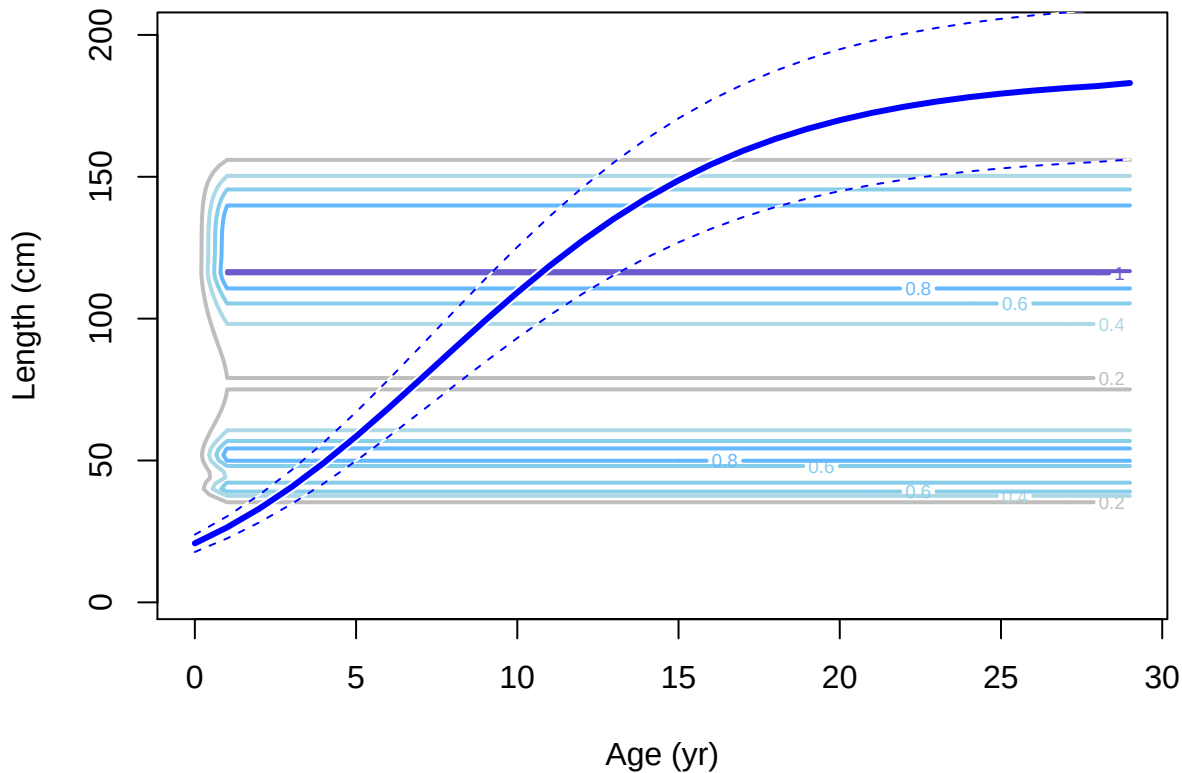




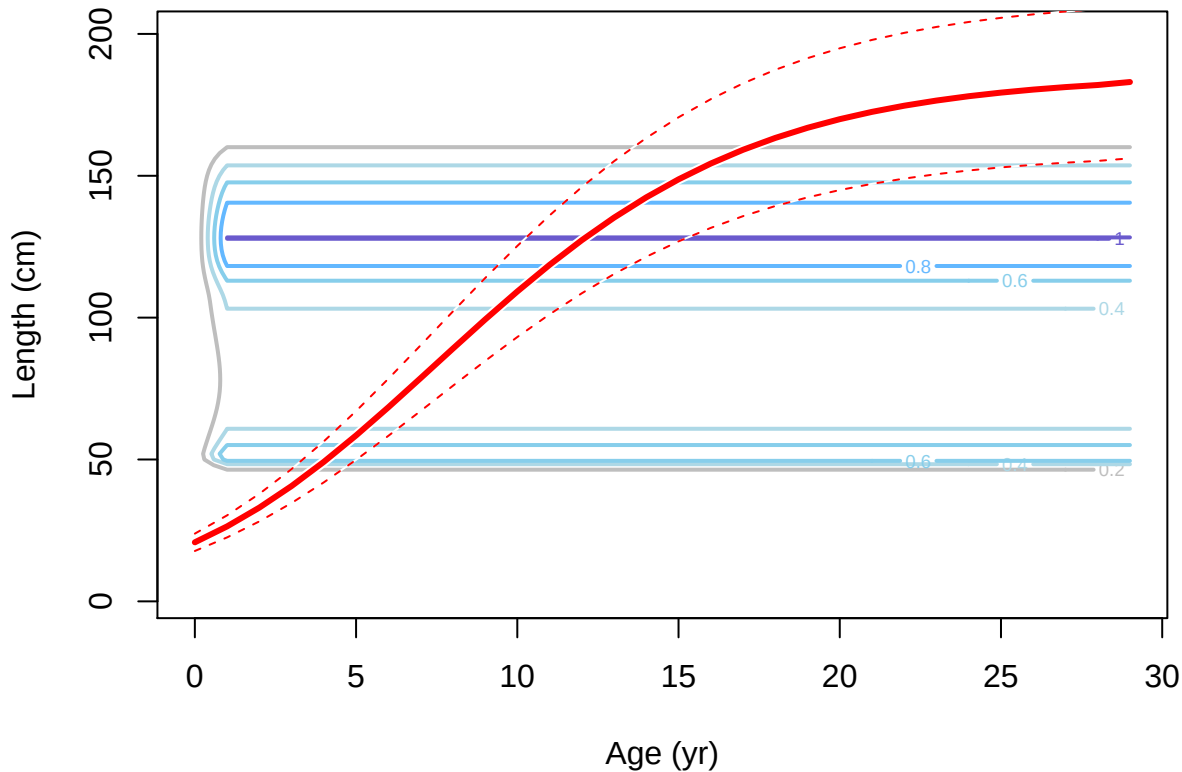
## Female ending year selectivity and growth for F9-OBJ\_Cc\_Q23



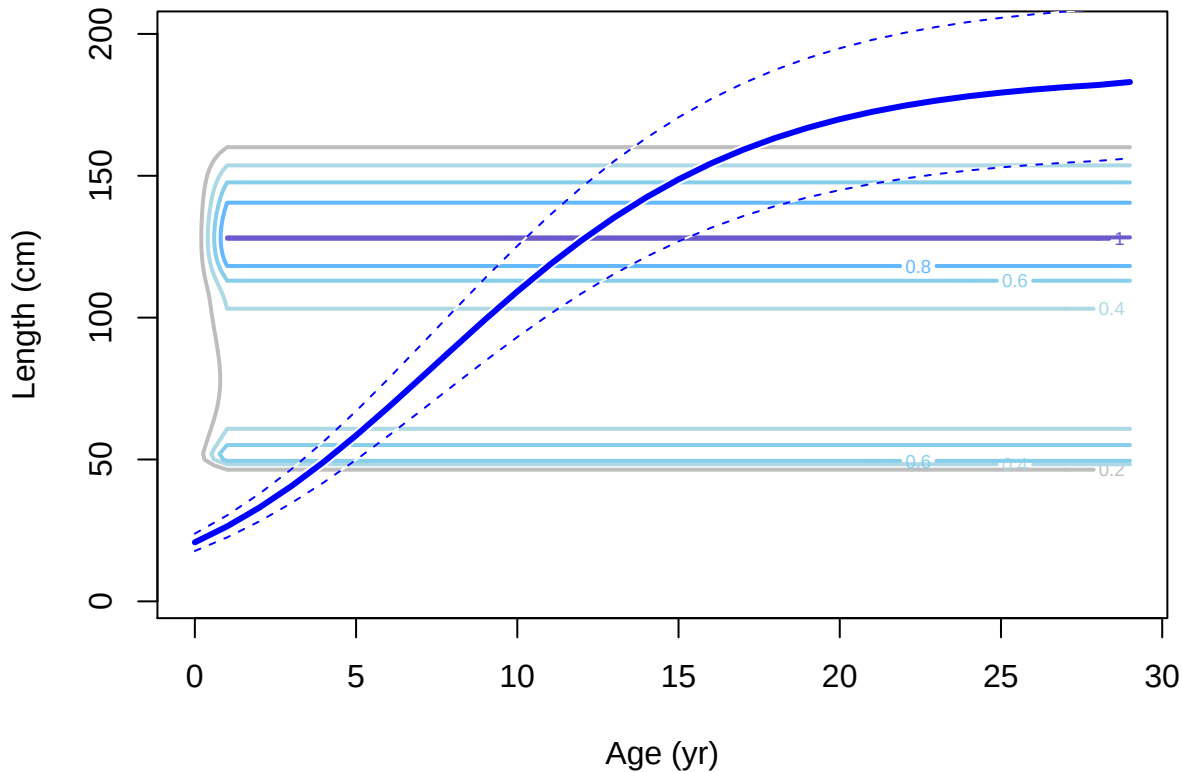
## Male ending year selectivity and growth for F9-OBJ\_Cc\_Q23



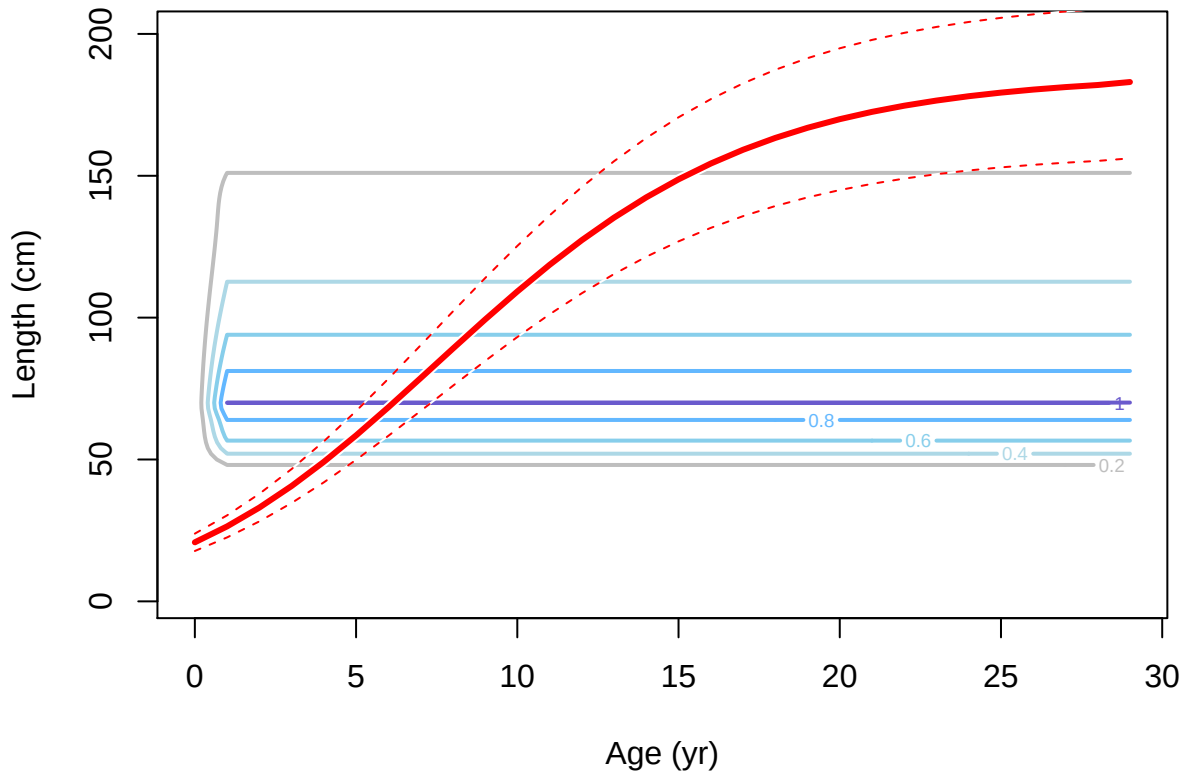
## Female ending year selectivity and growth for F10-OBJ\_S\_Q23



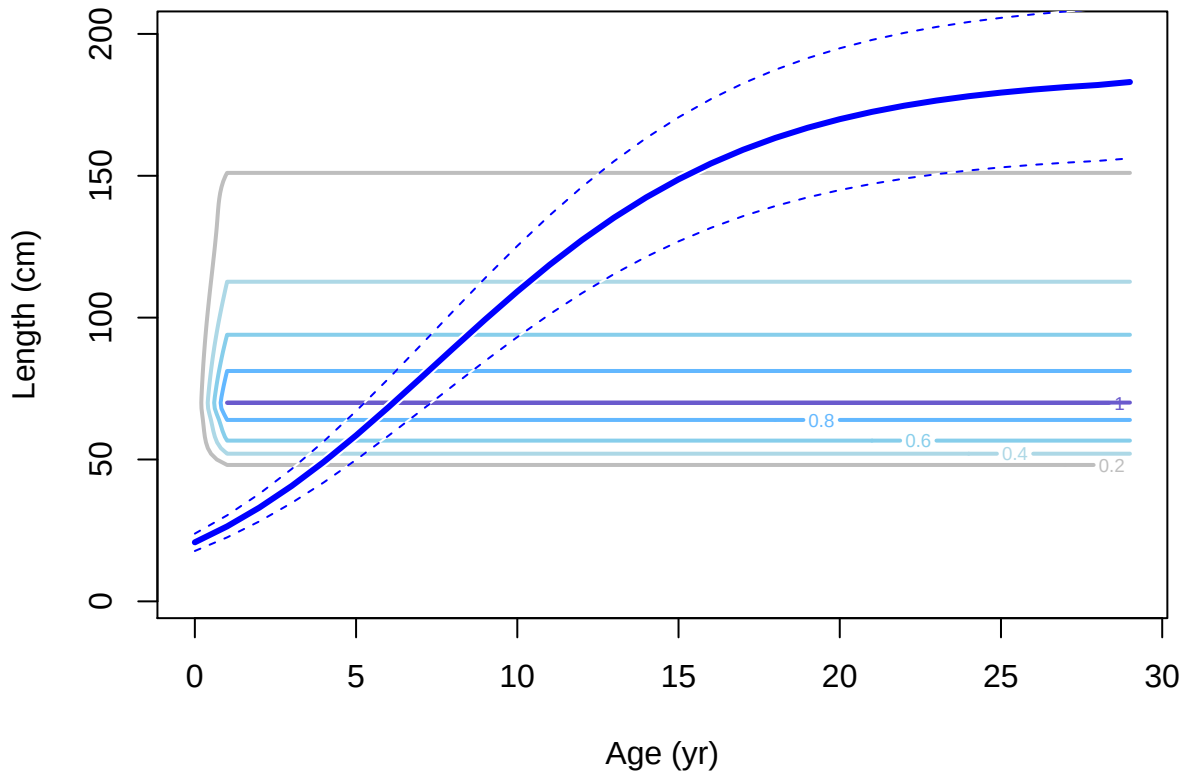
# Male ending year selectivity and growth for F10-OBJ\_S\_Q23



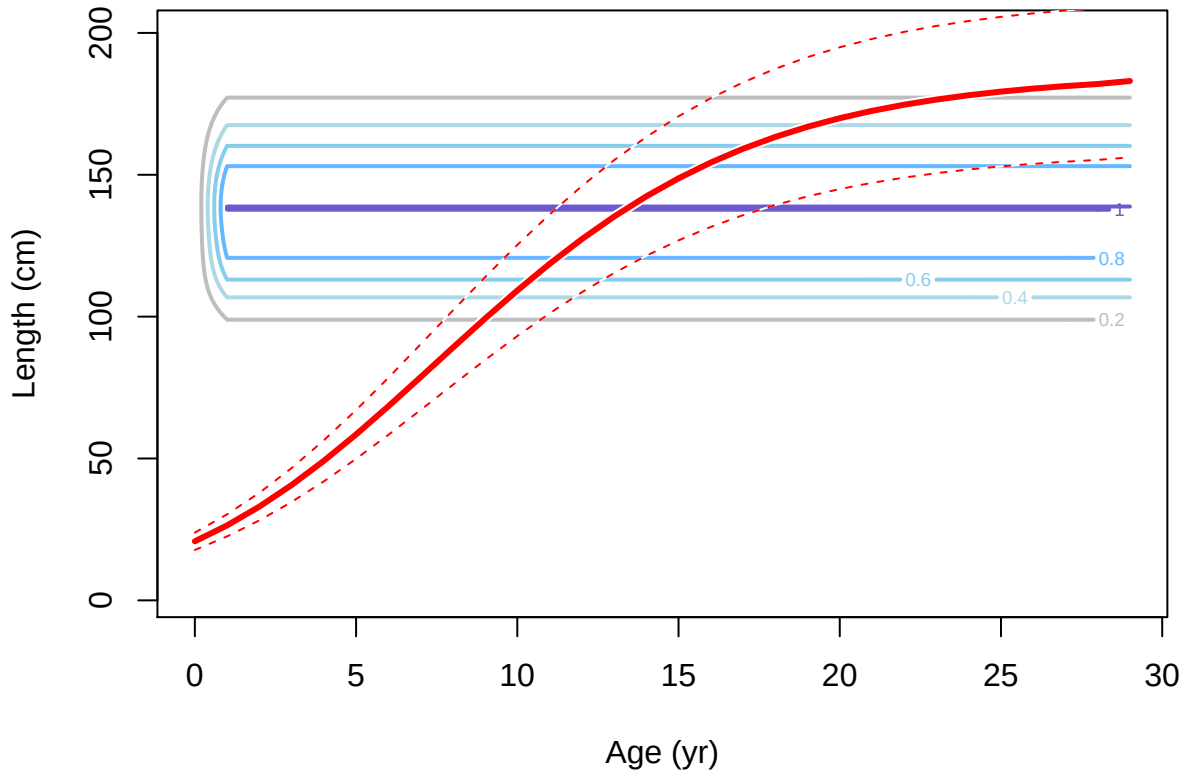
## Female ending year selectivity and growth for F11-NOA\_N



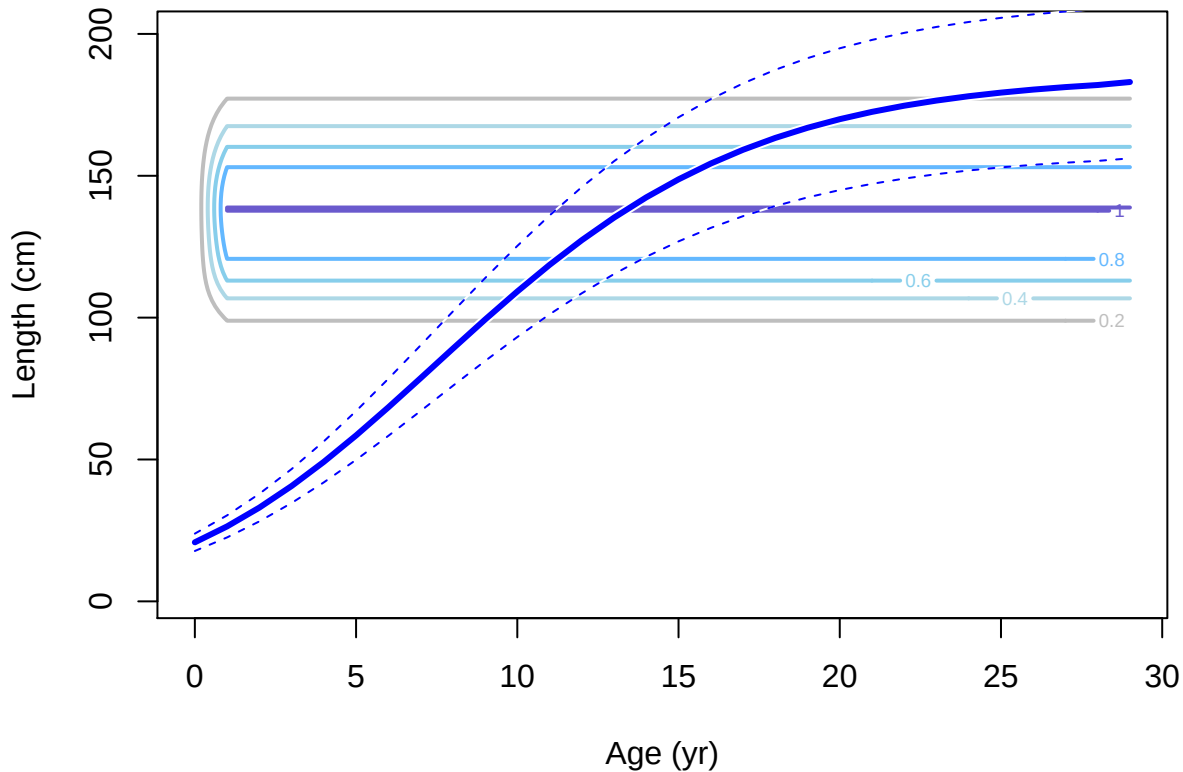
# Male ending year selectivity and growth for F11-NOA\_N



## Female ending year selectivity and growth for F12-NOA\_C

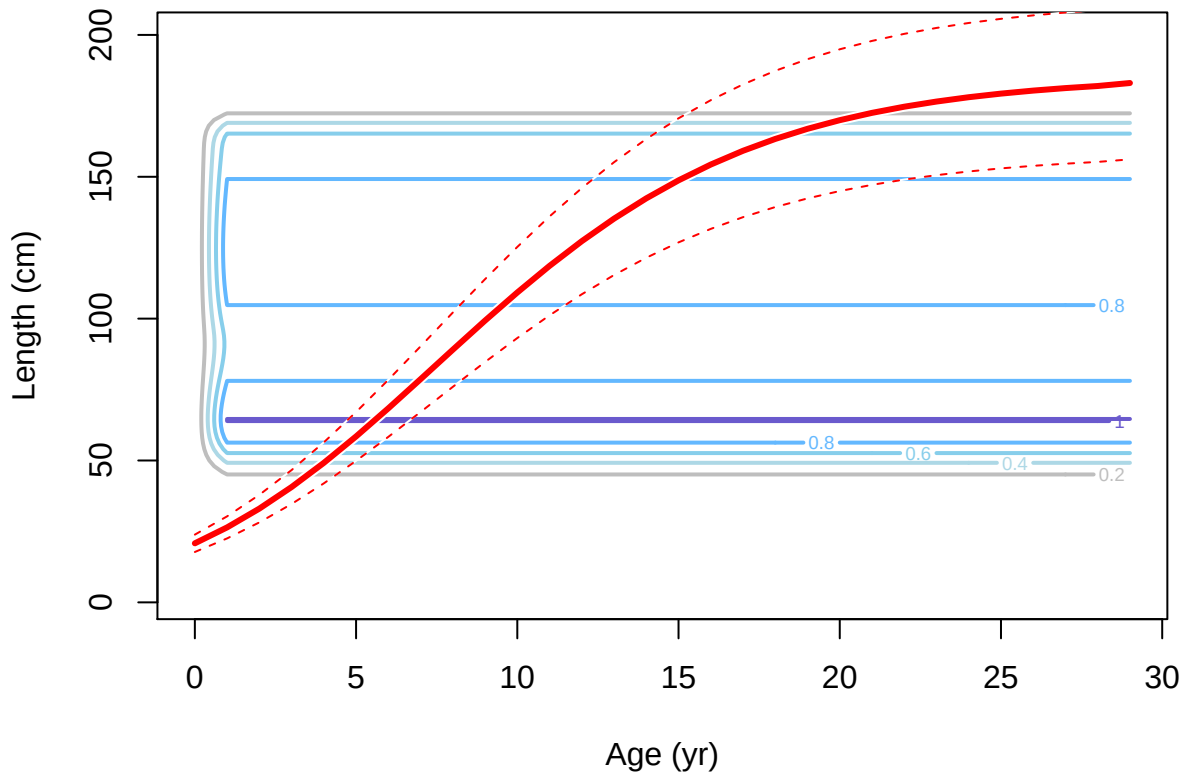


# Male ending year selectivity and growth for F12-NOA\_C

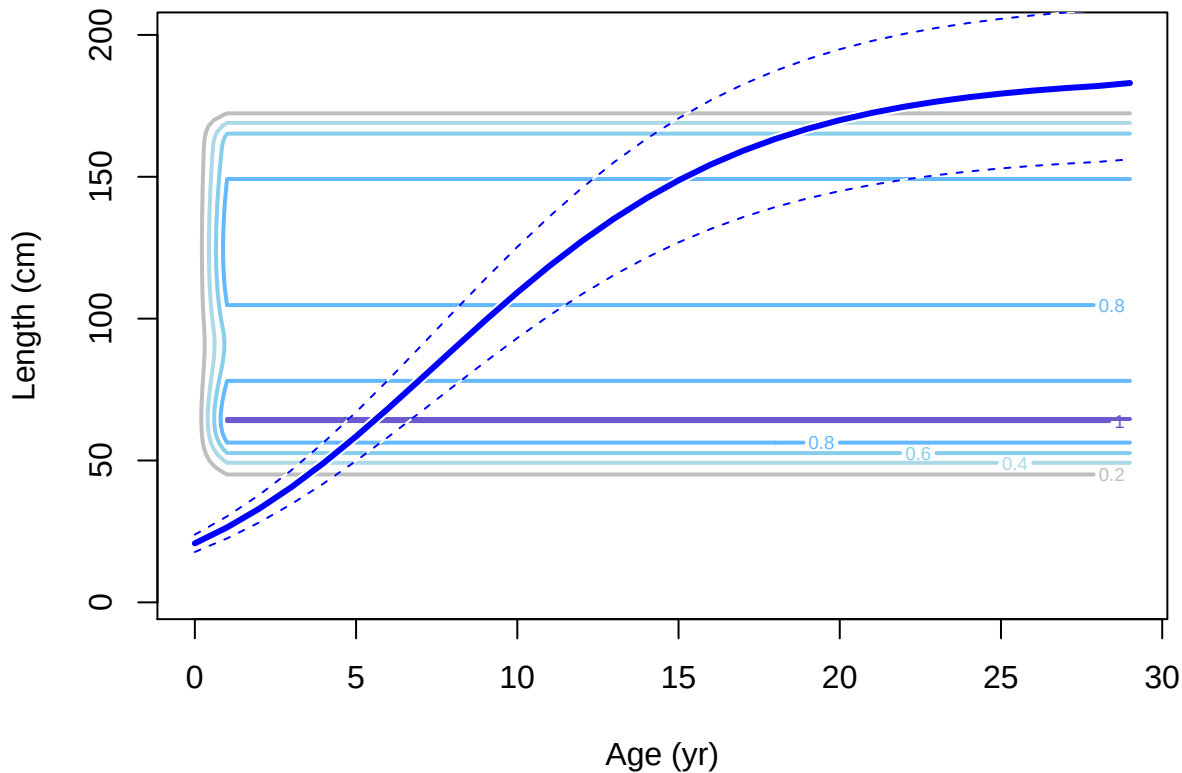




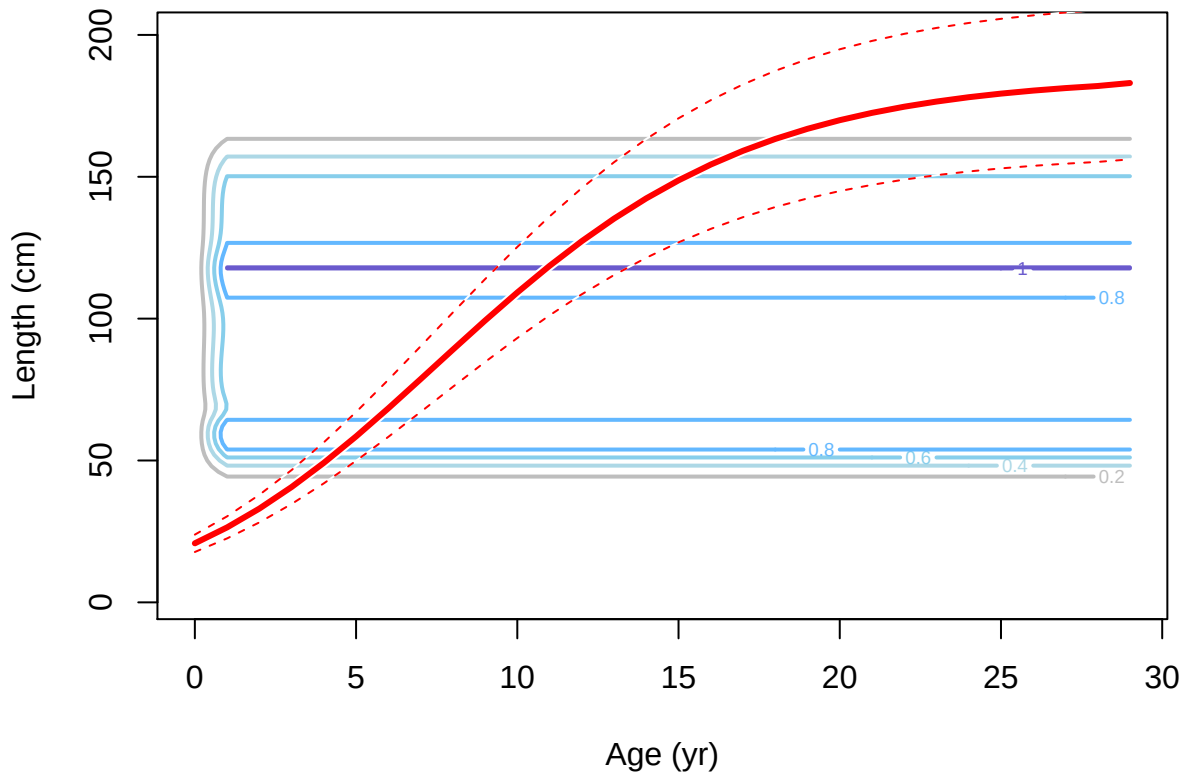
## Female ending year selectivity and growth for F13-NOA\_I



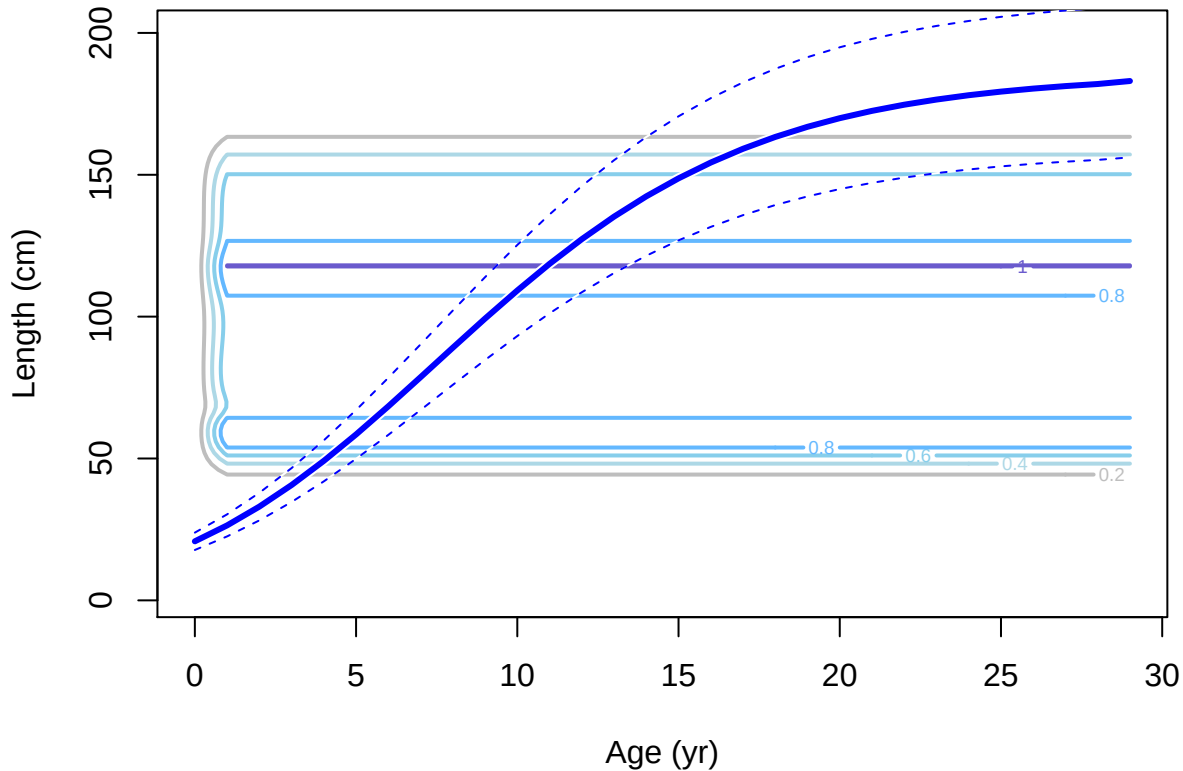
# Male ending year selectivity and growth for F13-NOA\_I



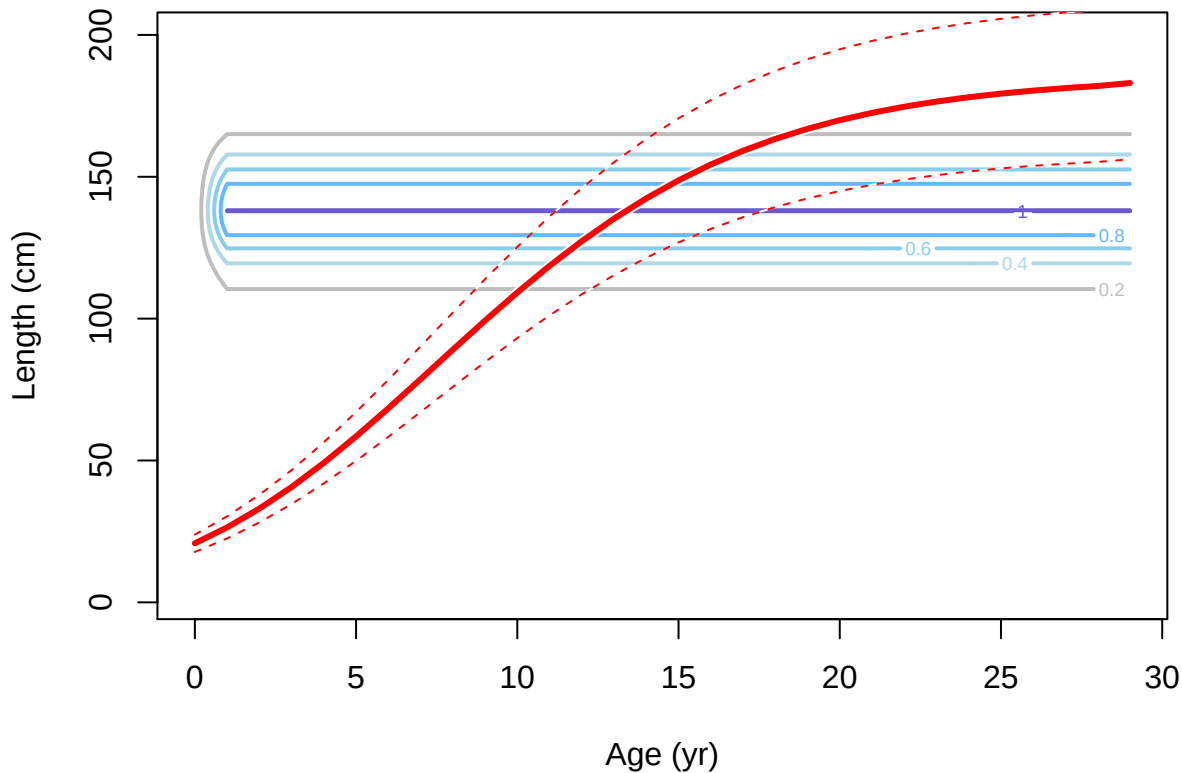
## Female ending year selectivity and growth for F14-NOA\_S



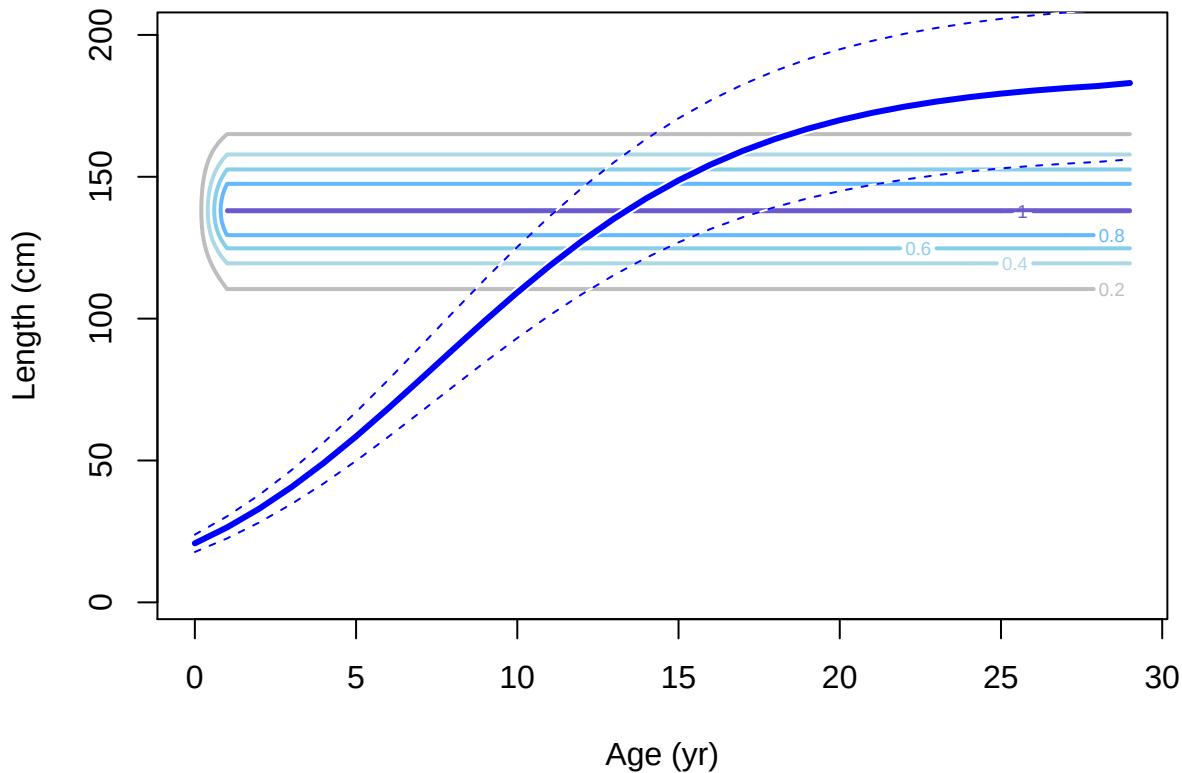
# Male ending year selectivity and growth for F14-NOA\_S



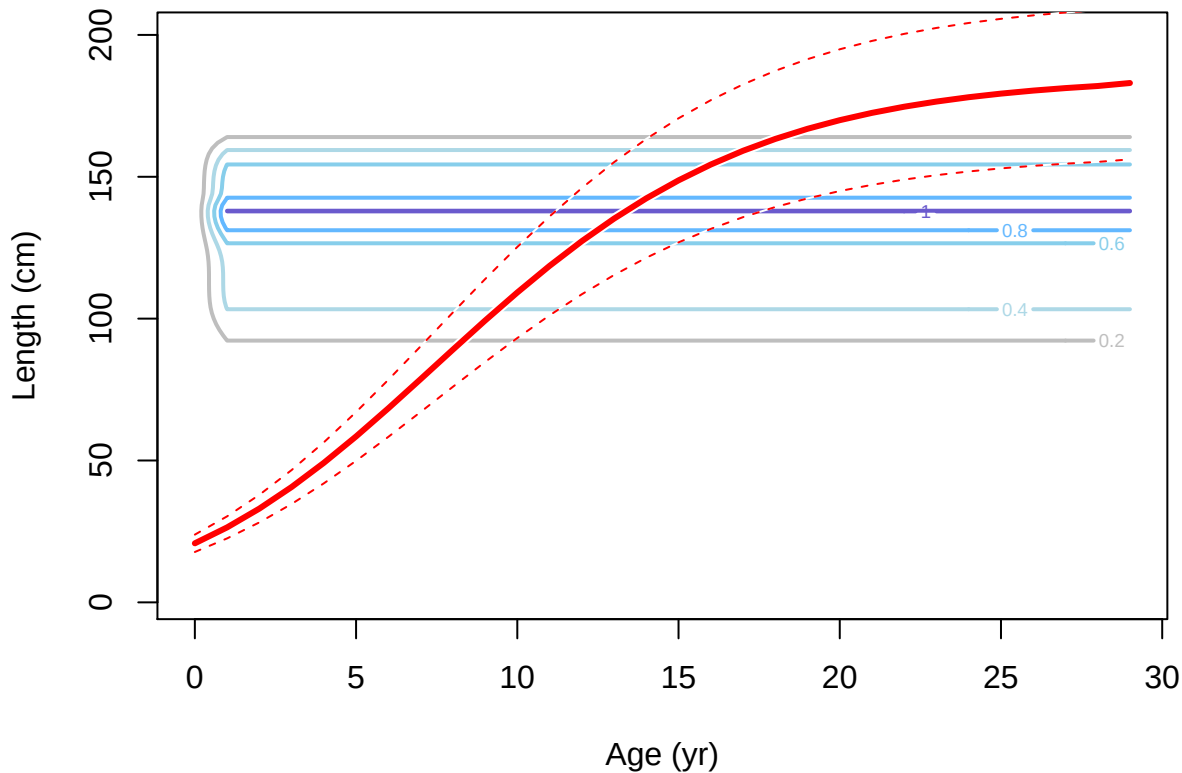
## Female ending year selectivity and growth for F15-DEL\_N



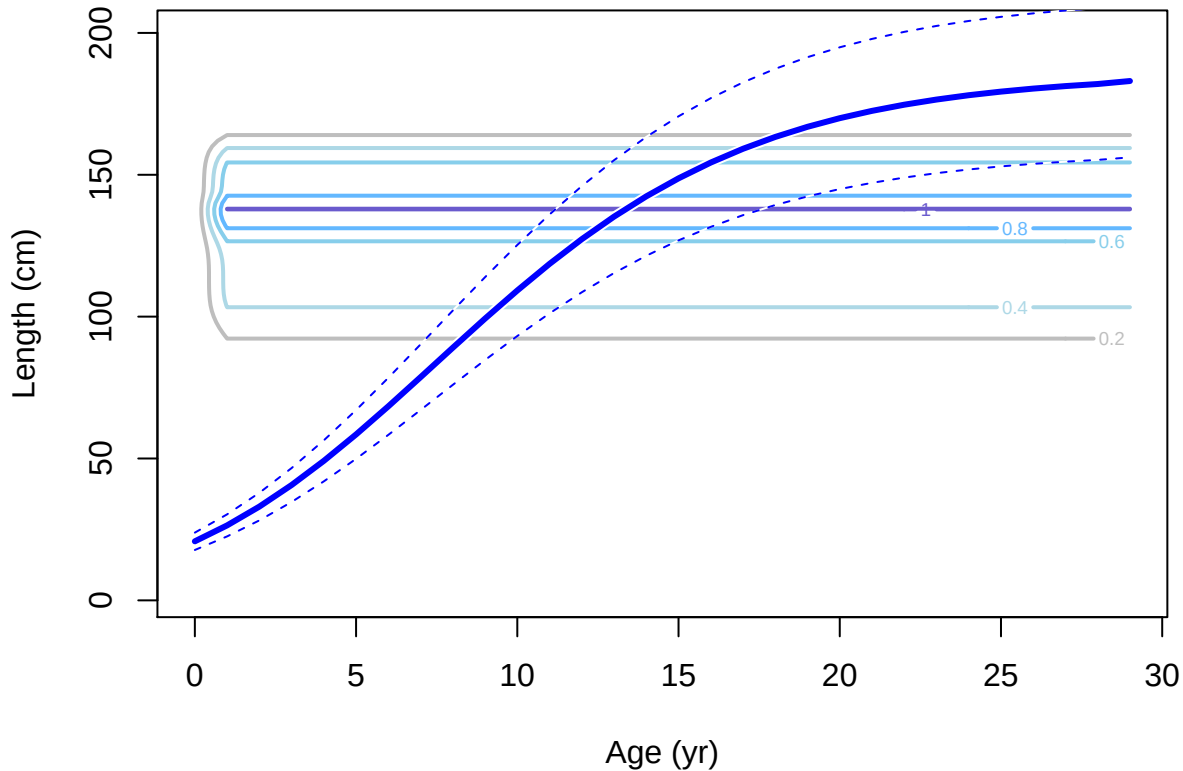
# Male ending year selectivity and growth for F15-DEL\_N



## Female ending year selectivity and growth for F16-DEL\_NE

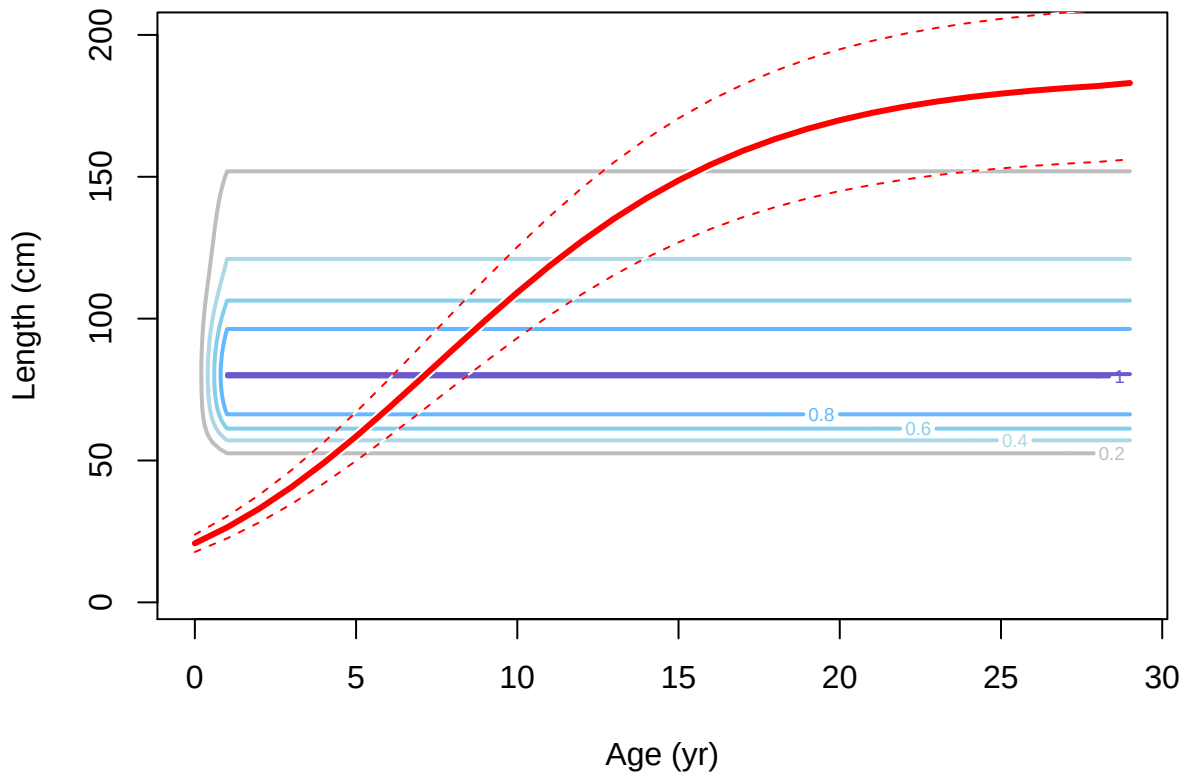


## Male ending year selectivity and growth for F16-DEL\_NE

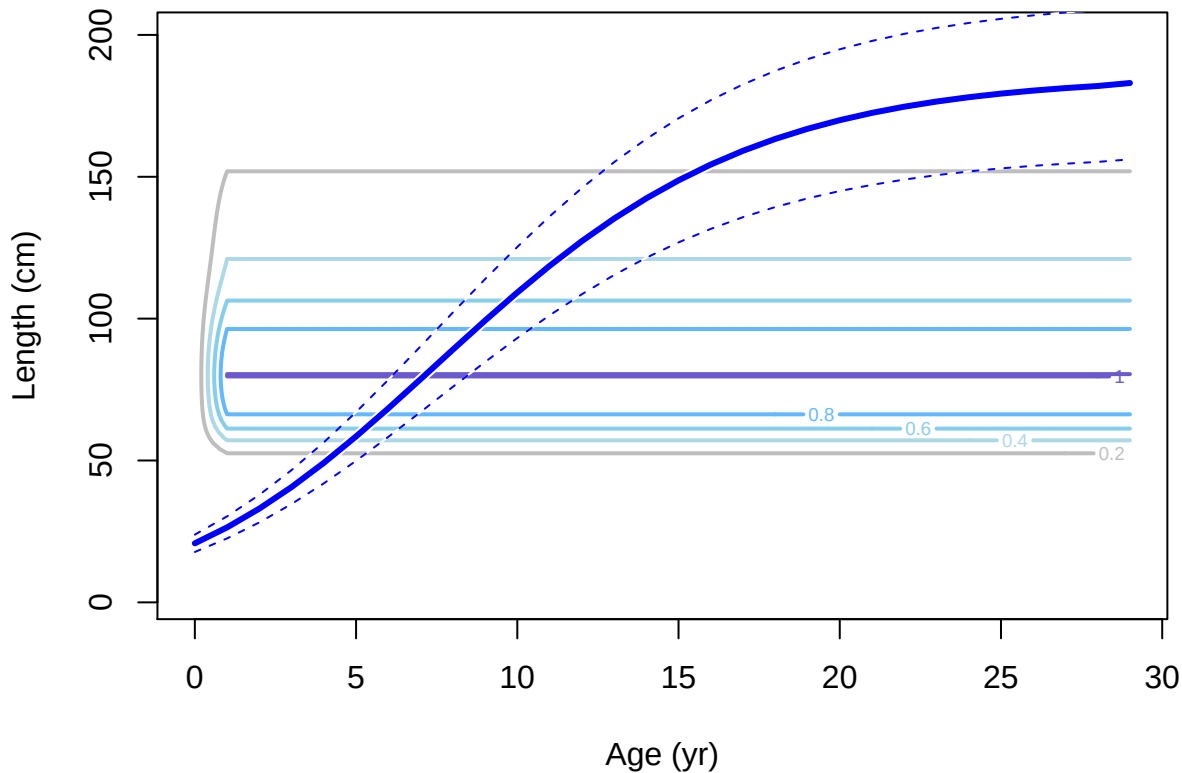




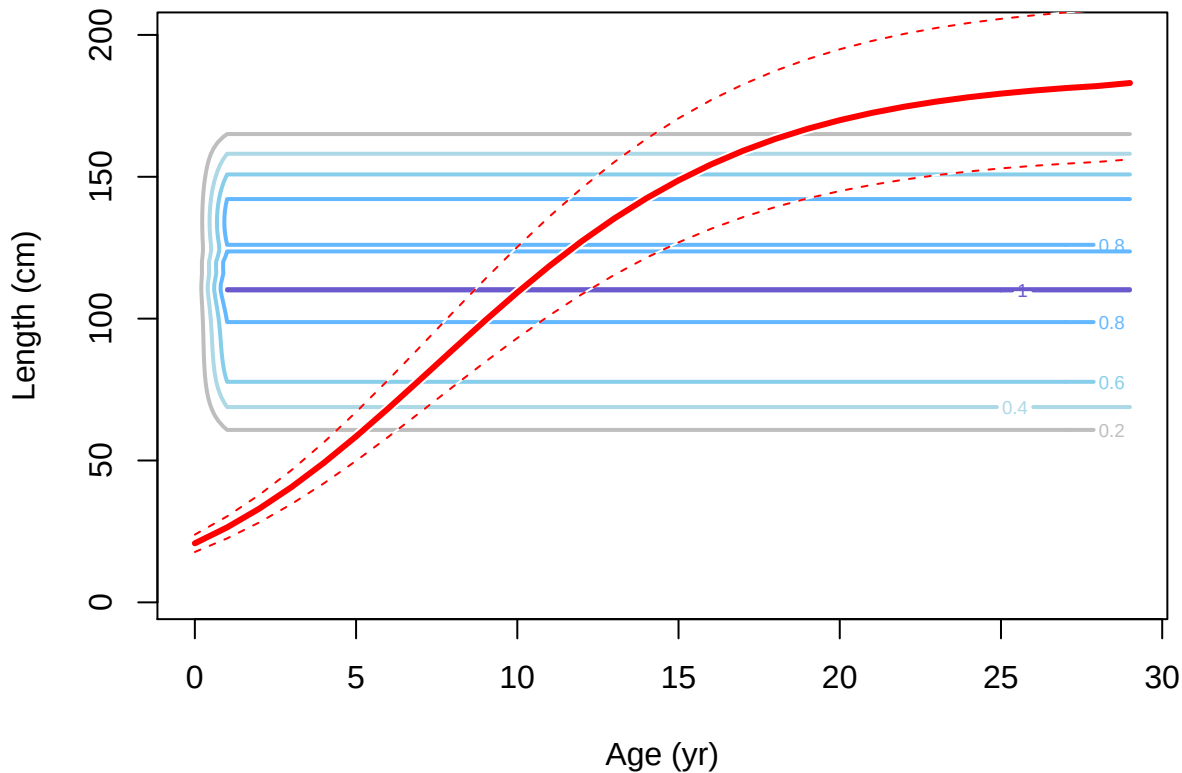
## Female ending year selectivity and growth for F17-DEL\_M



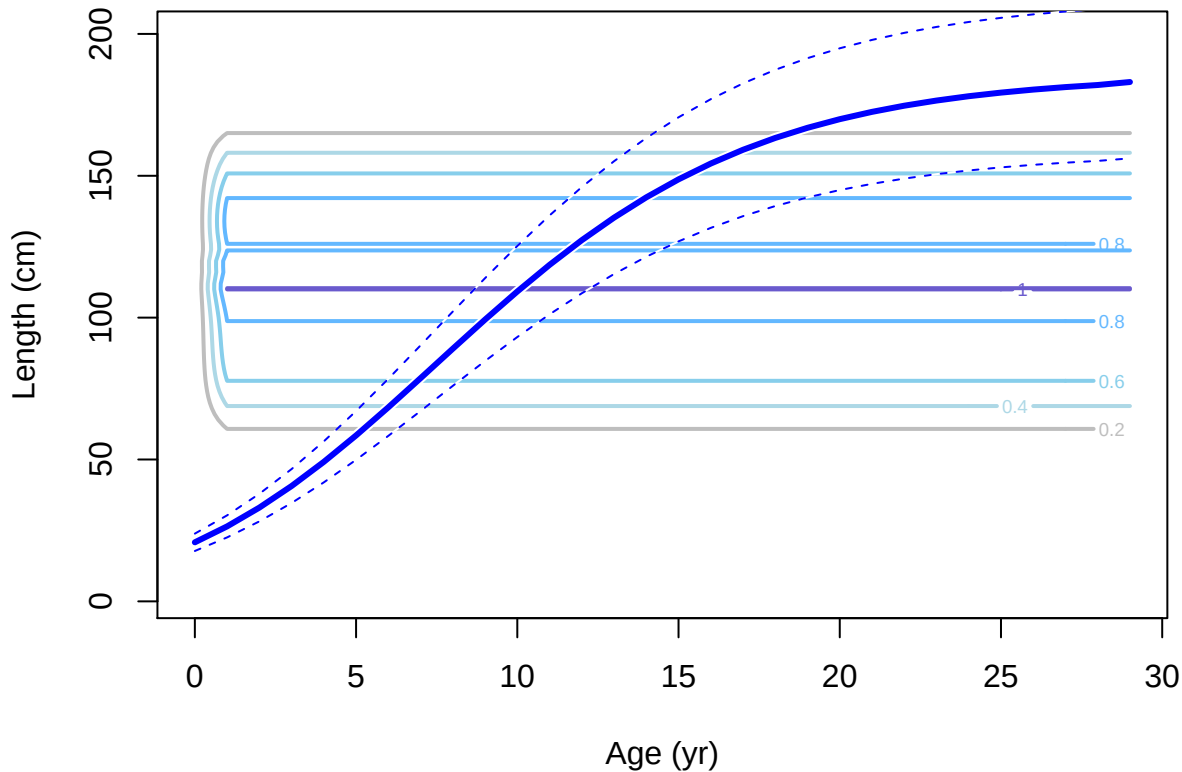
# Male ending year selectivity and growth for F17-DEL\_M



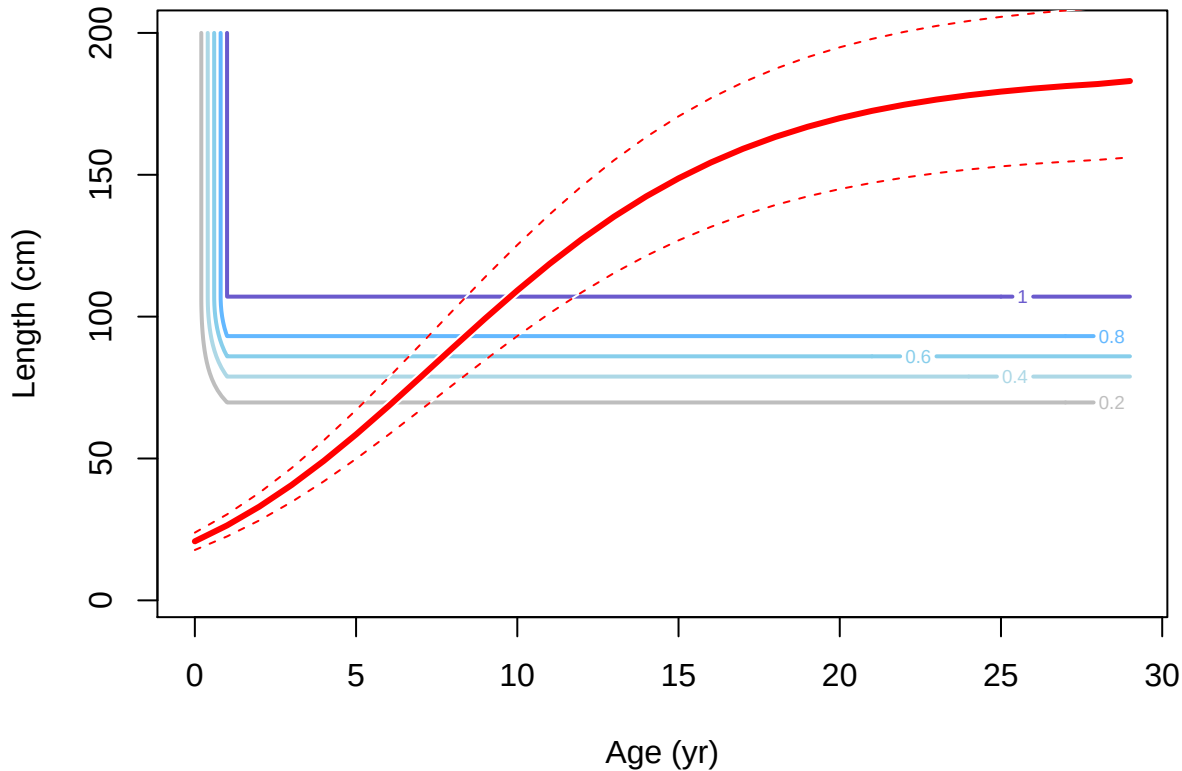
## Female ending year selectivity and growth for F18-DEL\_C



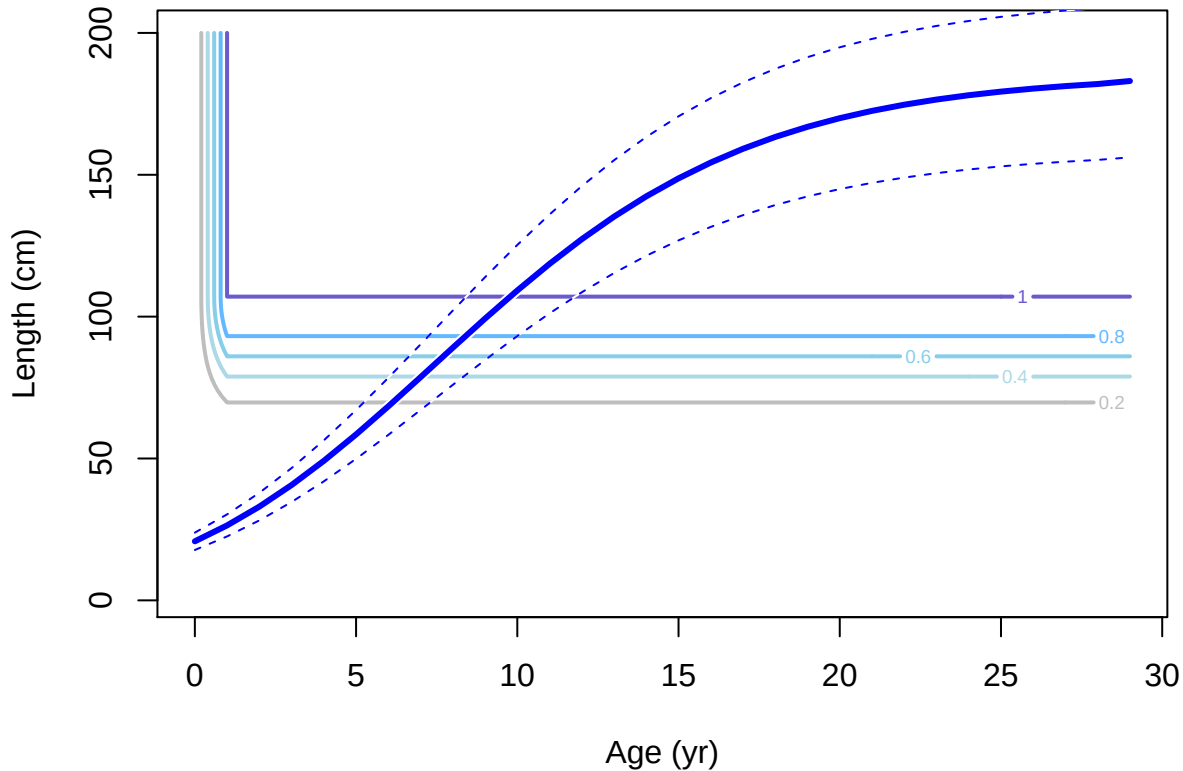
# Male ending year selectivity and growth for F18-DEL\_C



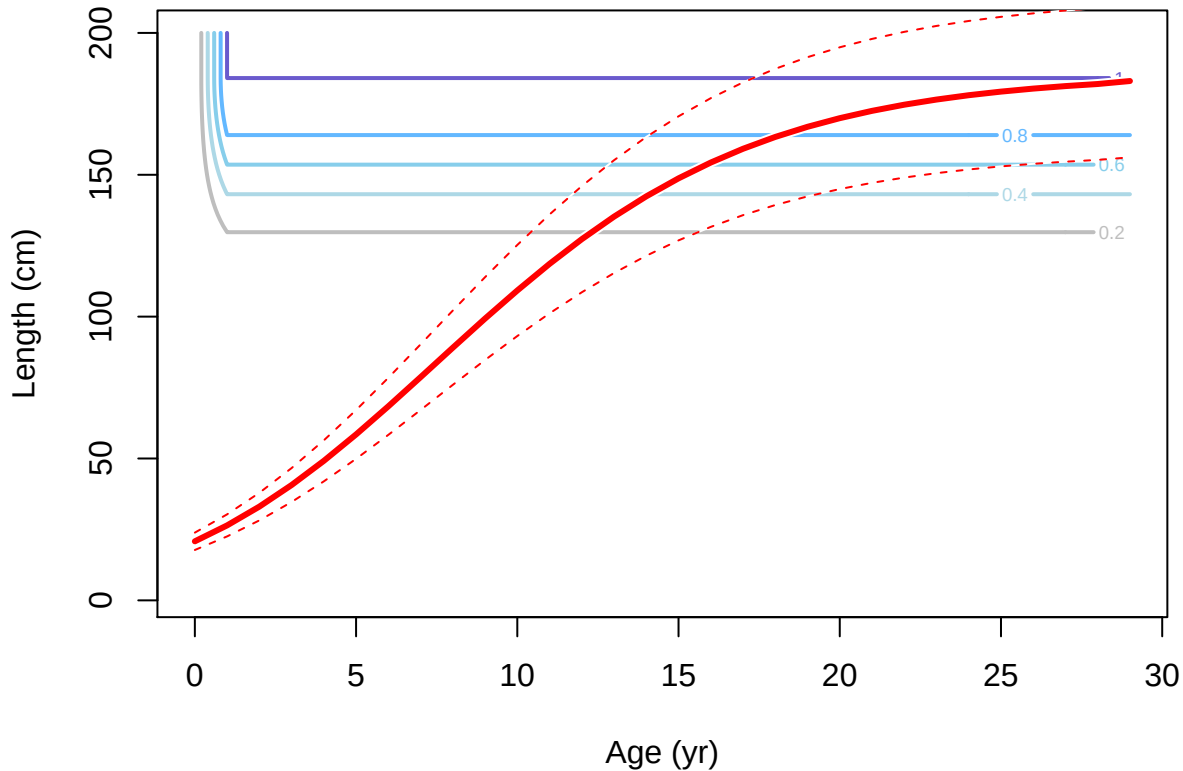
## Female ending year selectivity and growth for F19-DEL\_P



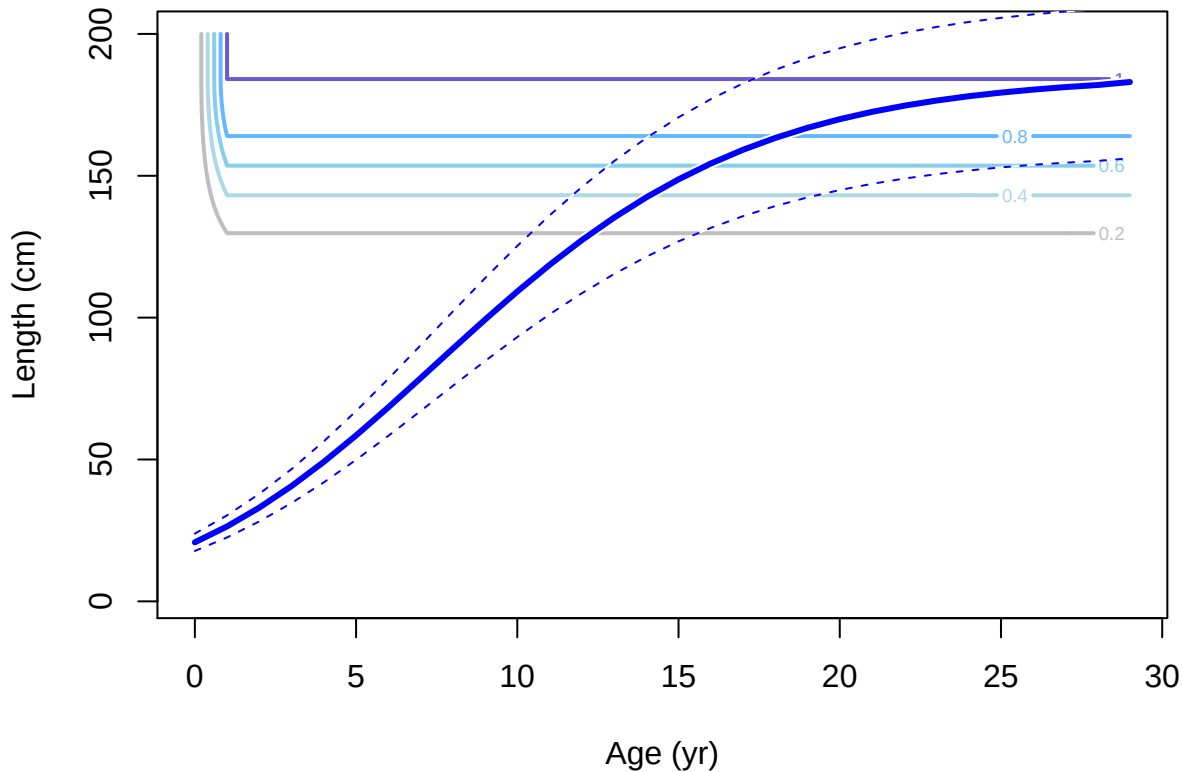
# Male ending year selectivity and growth for F19-DEL\_P



## Female ending year selectivity and growth for F20-DEL\_S

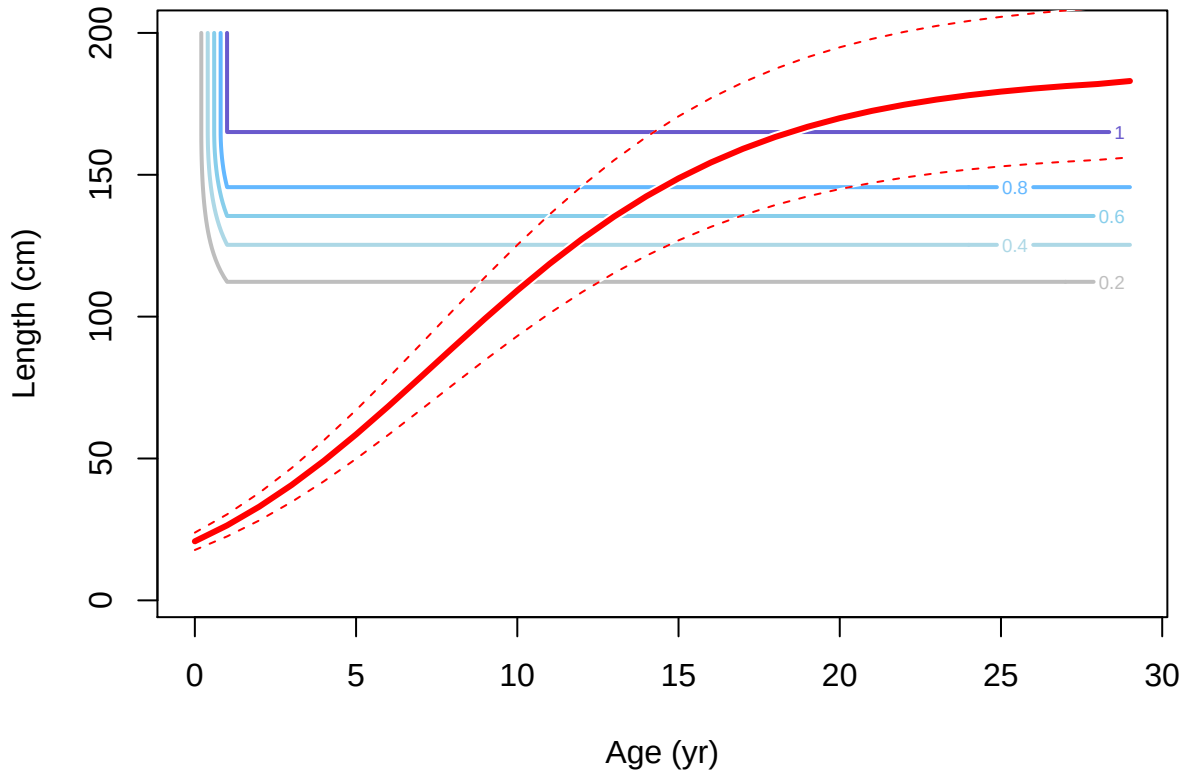


# Male ending year selectivity and growth for F20-DEL\_S

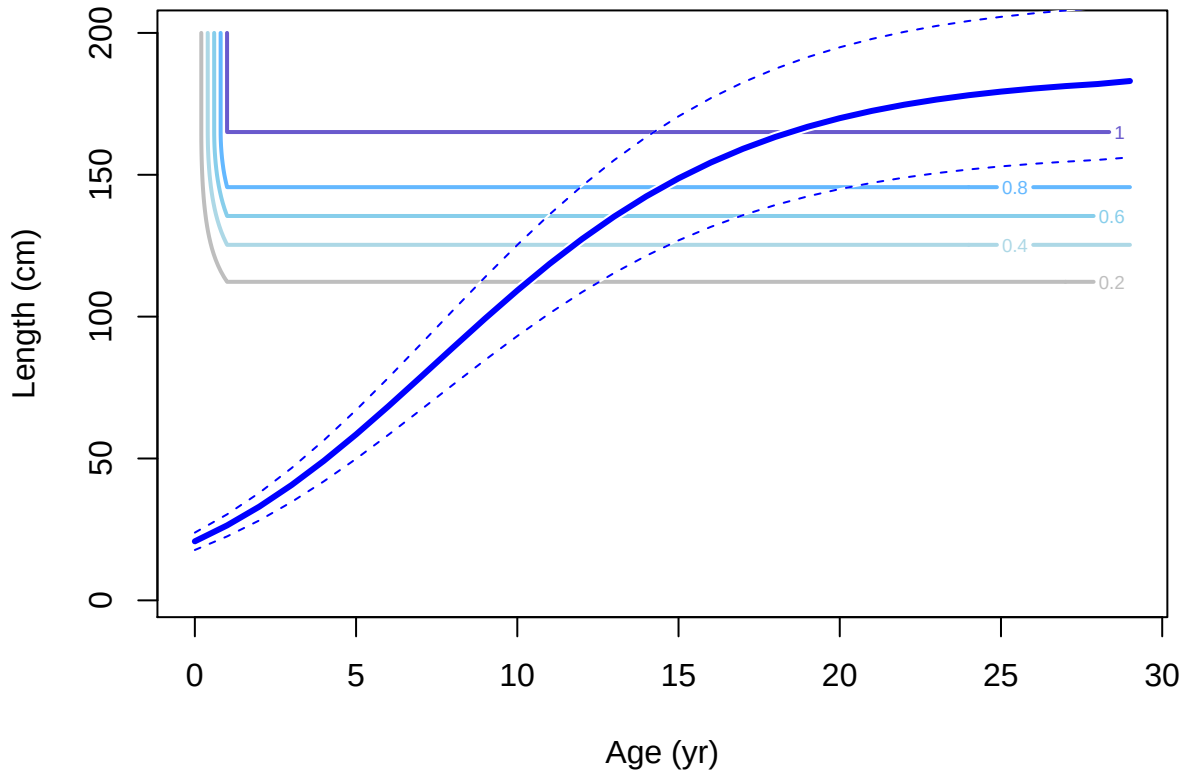




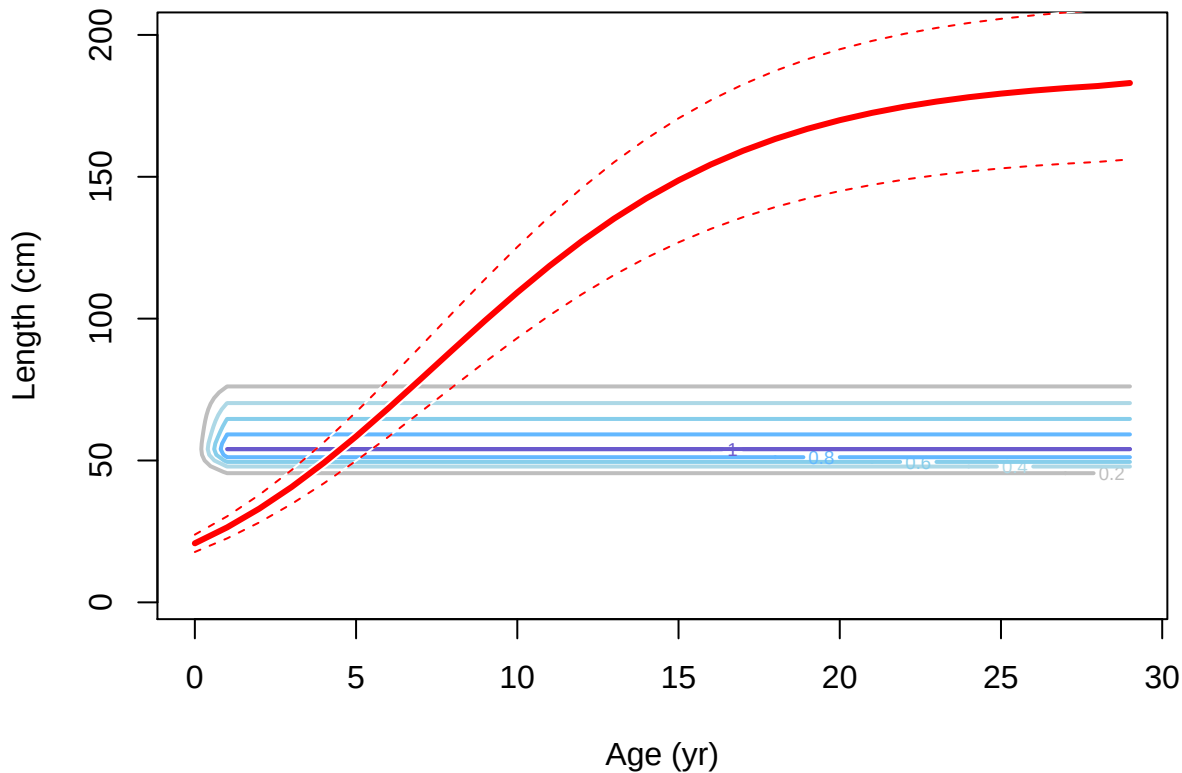
## Female ending year selectivity and growth for F21-DEL\_I



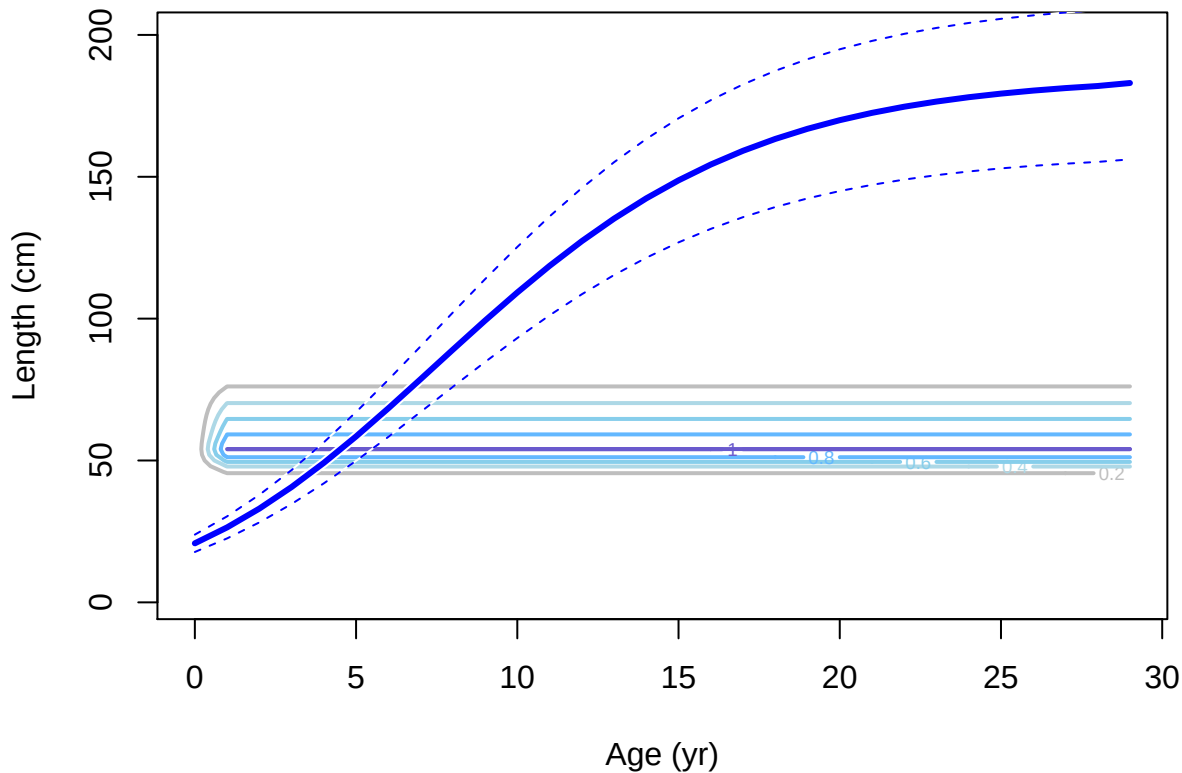
# Male ending year selectivity and growth for F21-DEL\_I



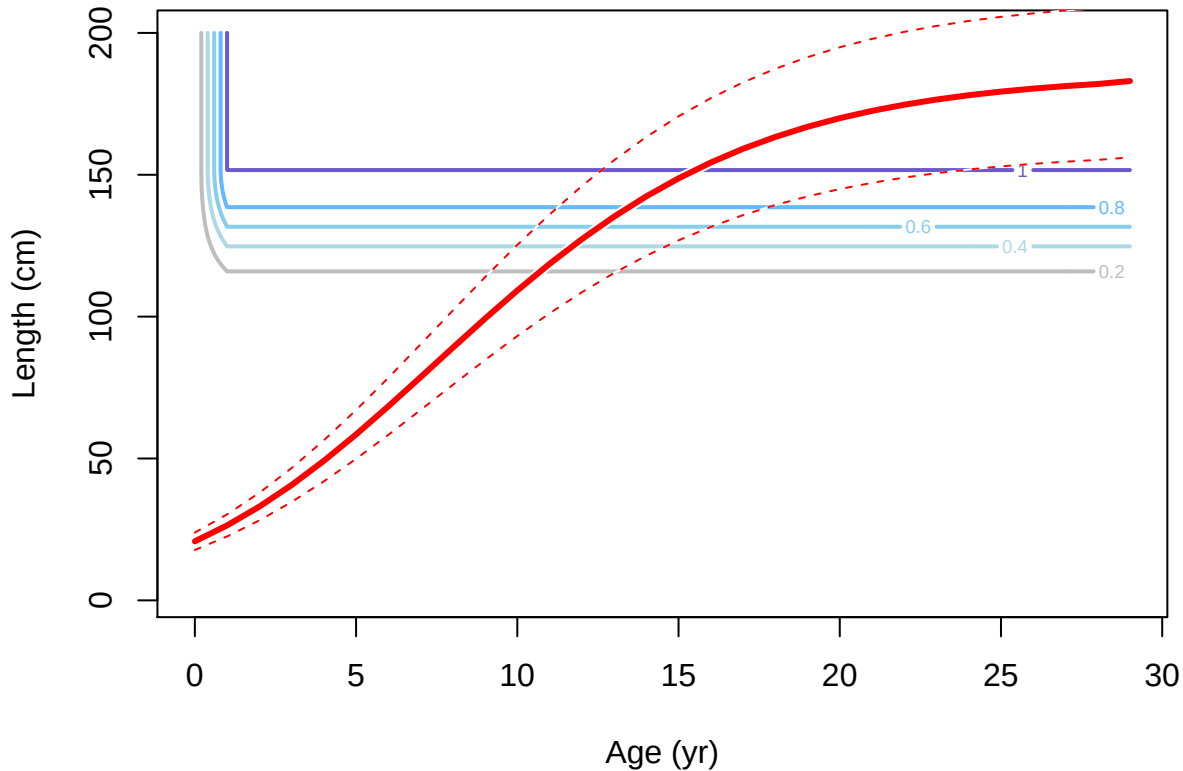
## Female ending year selectivity and growth for F22-BB



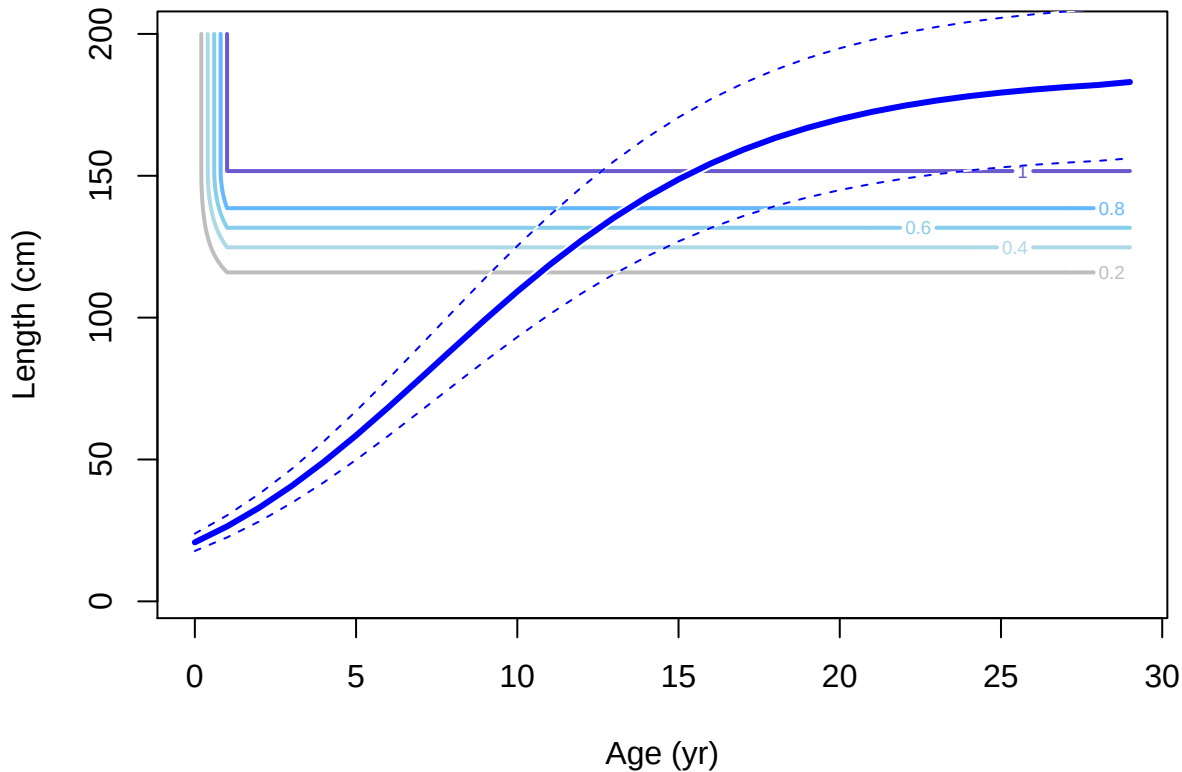
# Male ending year selectivity and growth for F22-BB



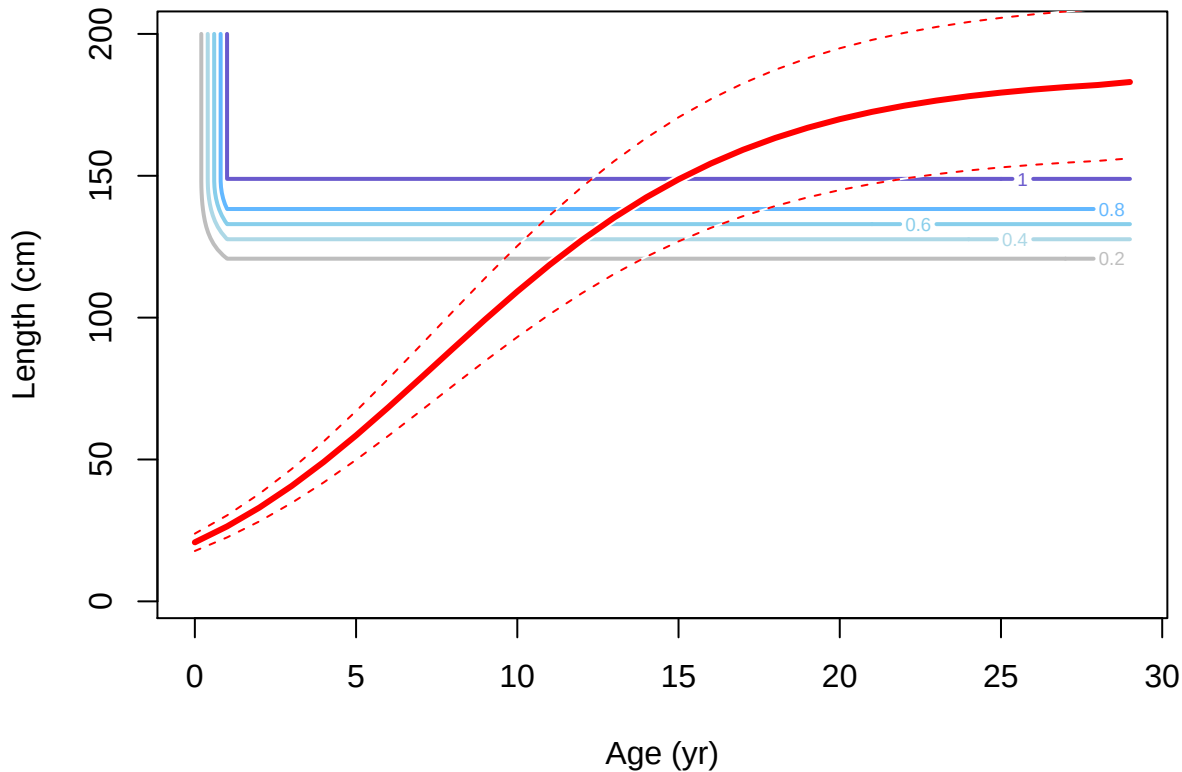
## Female ending year selectivity and growth for F29-LL\_W\_Q14n



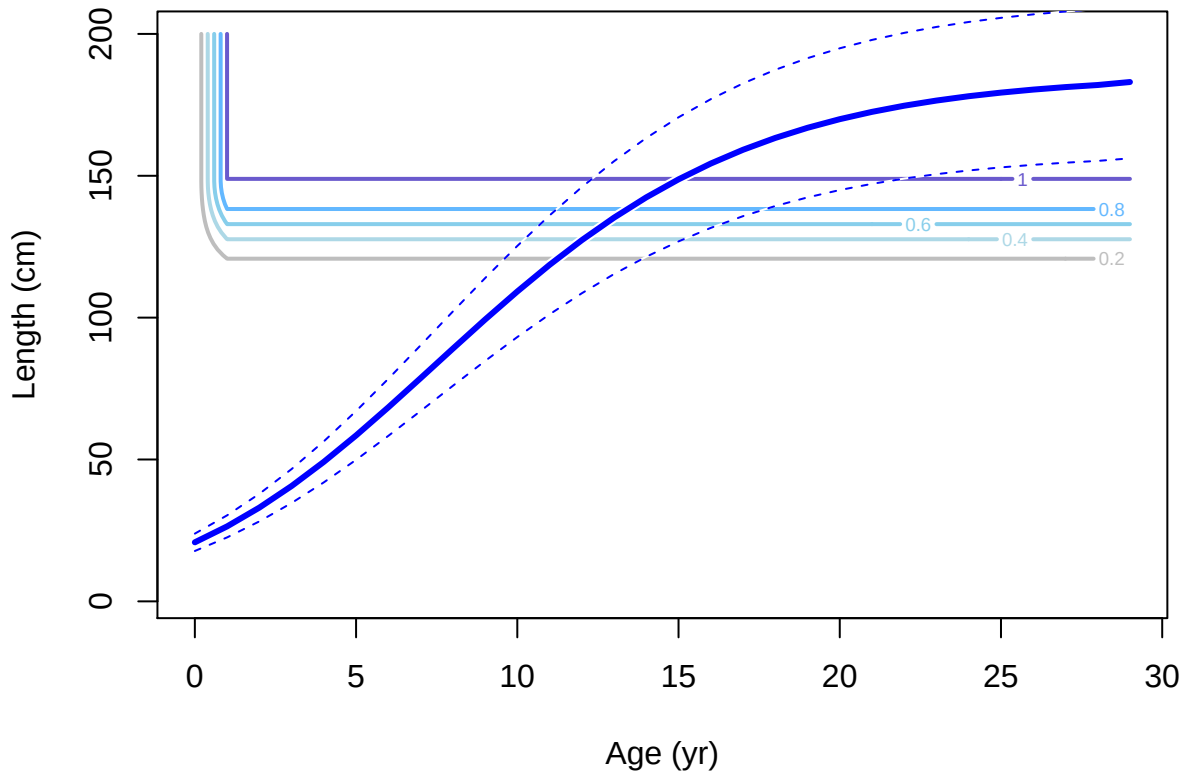
# Male ending year selectivity and growth for F29-LL\_W\_Q14n



Female ending year selectivity and growth for F30-LL\_C\_Q14n

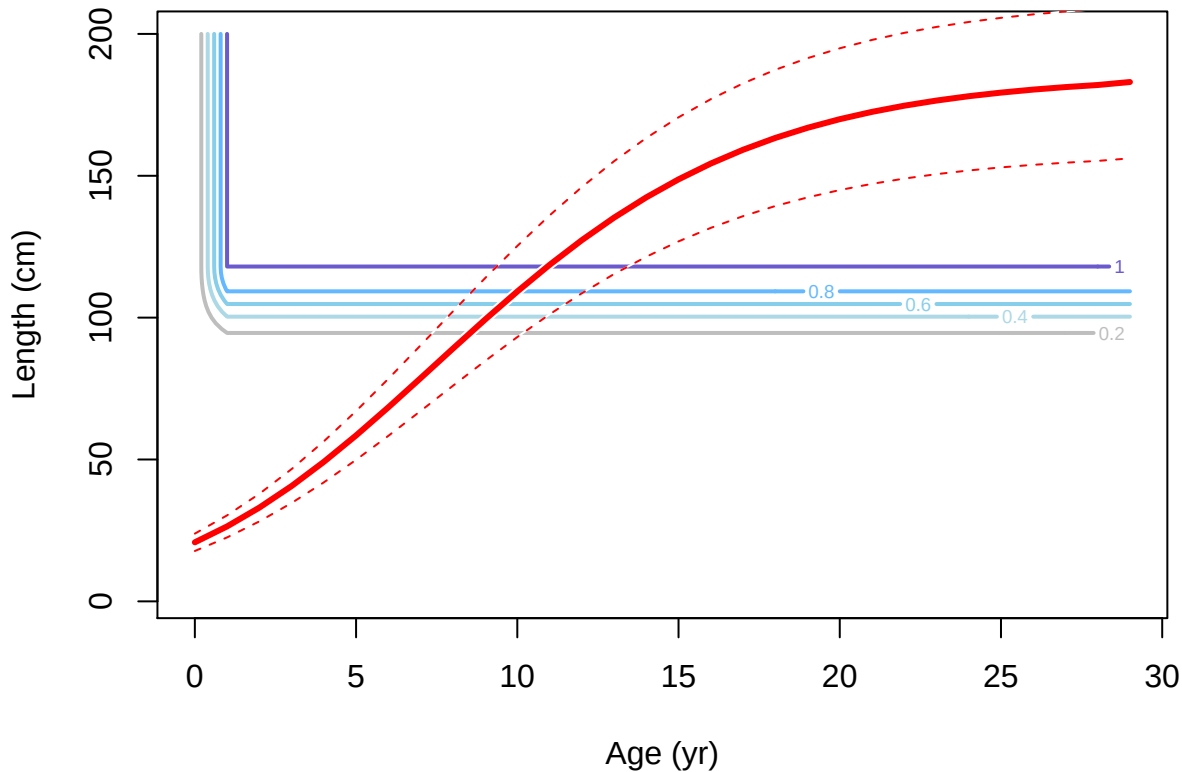


# Male ending year selectivity and growth for F30-LL\_C\_Q14n

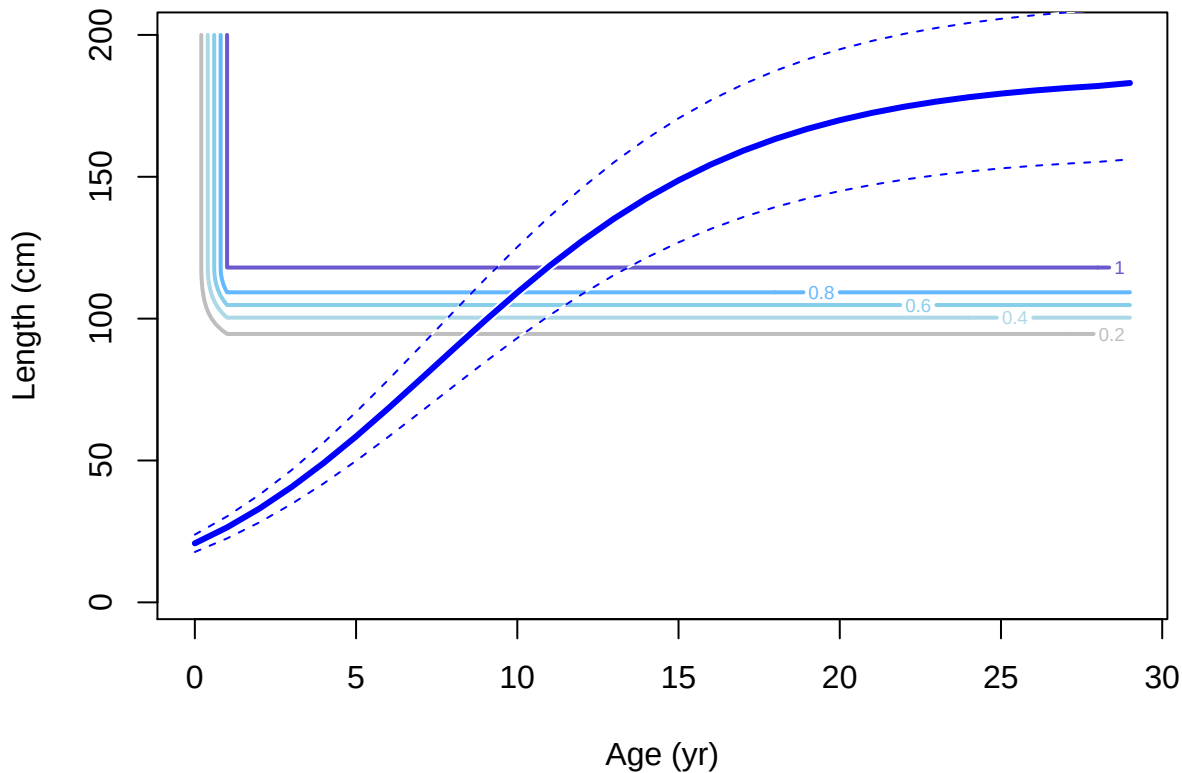




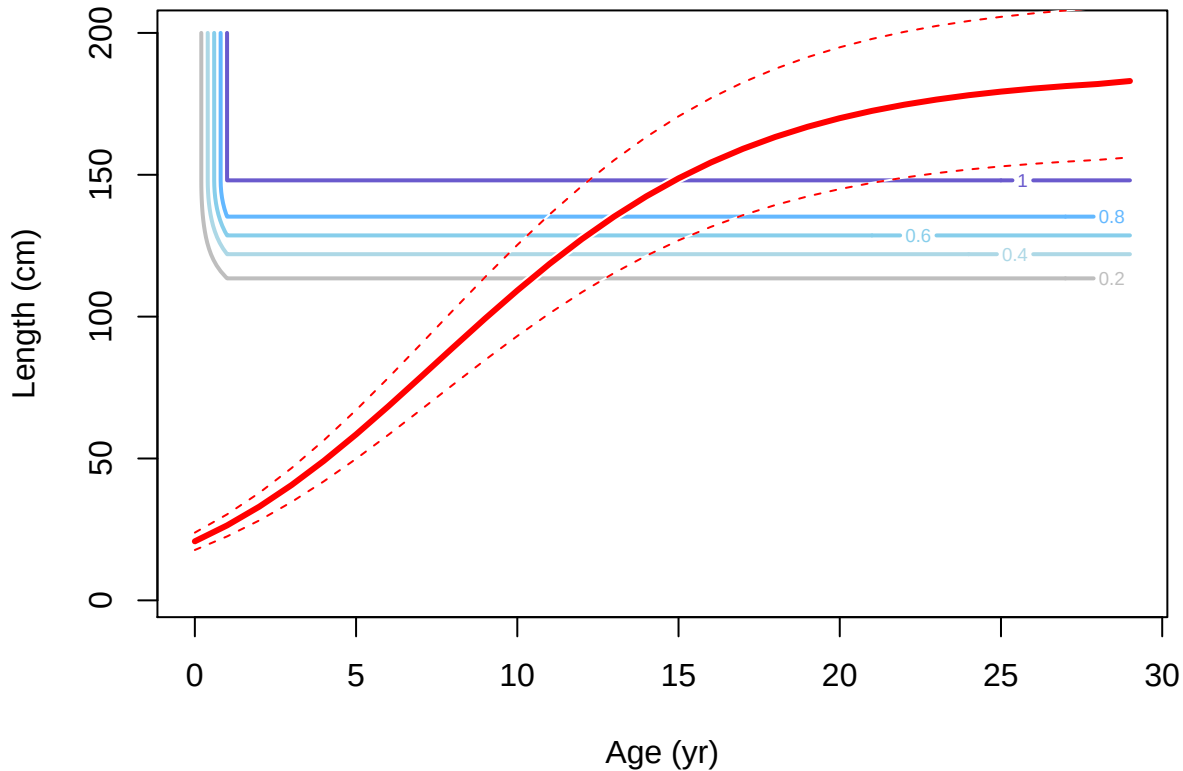
## Female ending year selectivity and growth for F31-LL\_E\_Q14n



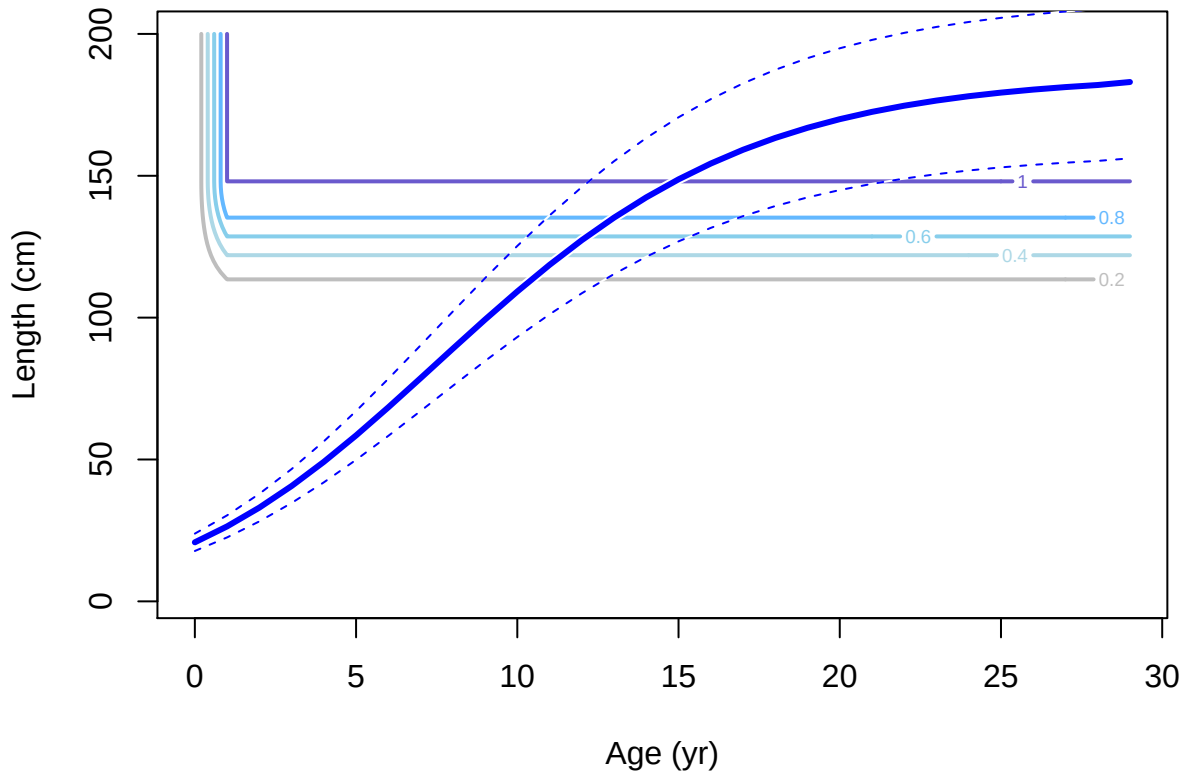
# Male ending year selectivity and growth for F31-LL\_E\_Q14n



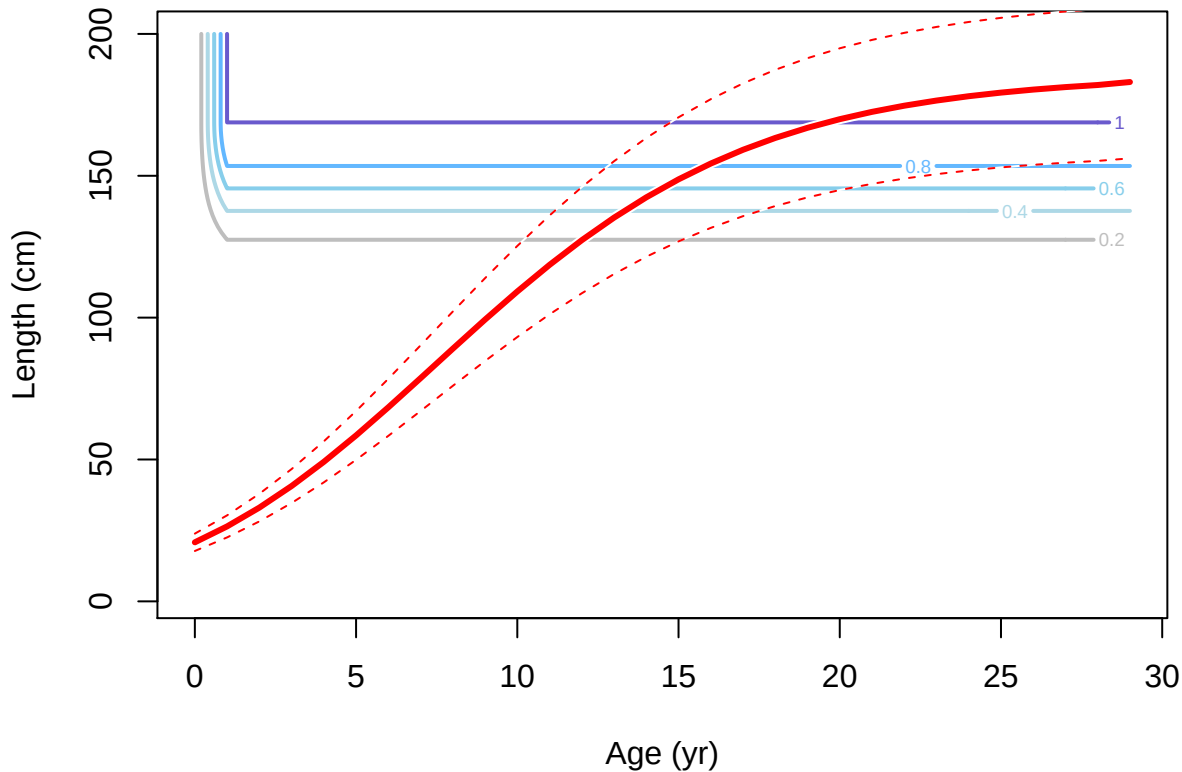
## Female ending year selectivity and growth for F32-LL\_W\_Q23n



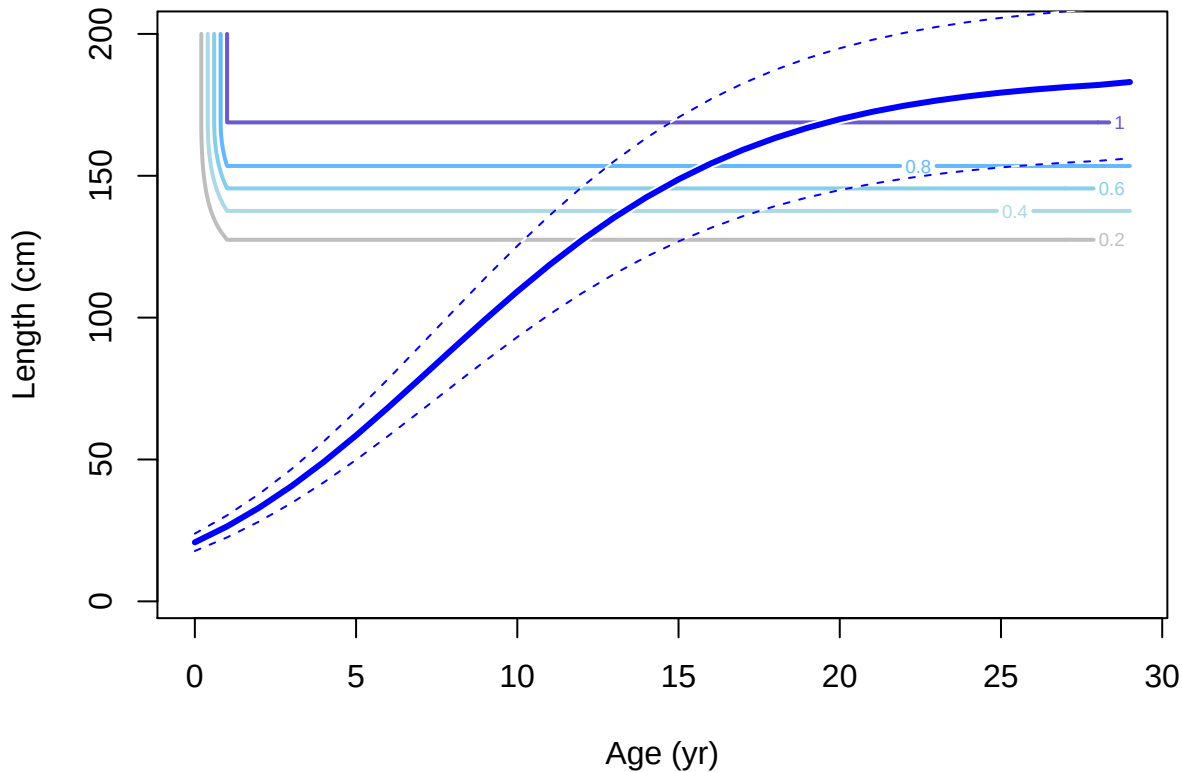
# Male ending year selectivity and growth for F32-LL\_W\_Q23n



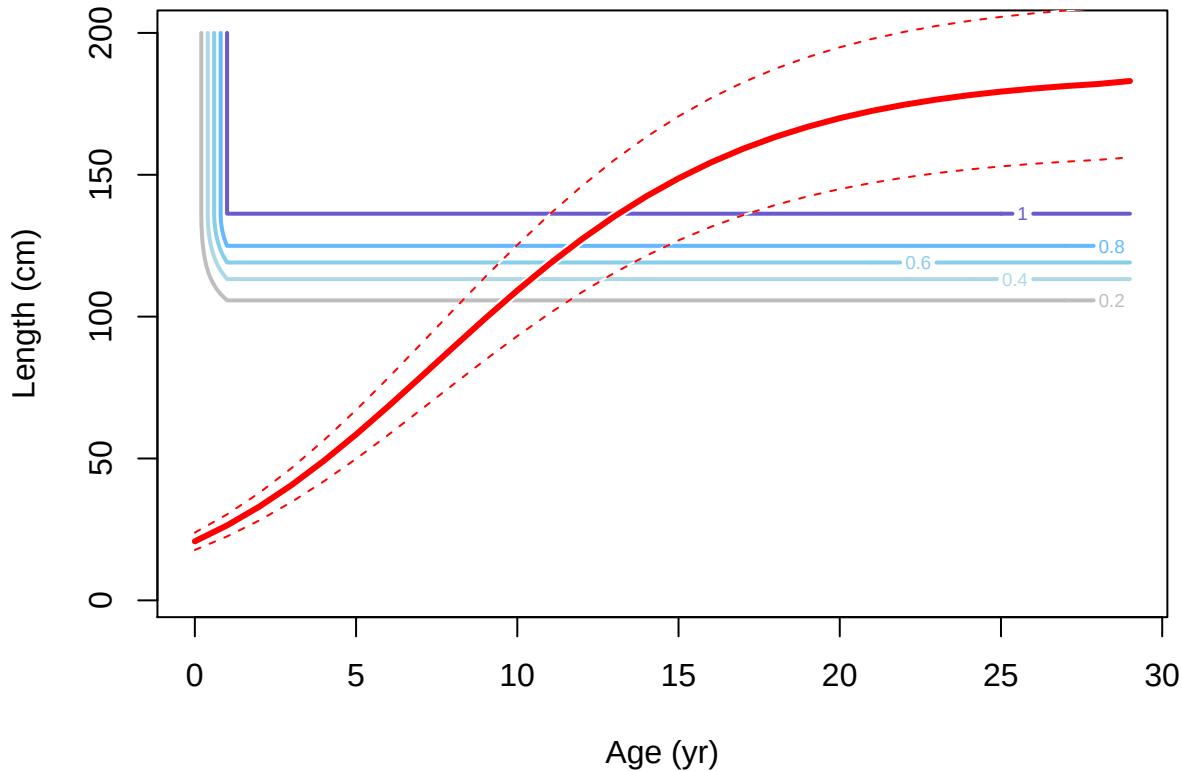
## Female ending year selectivity and growth for F33-LL\_C\_Q23n



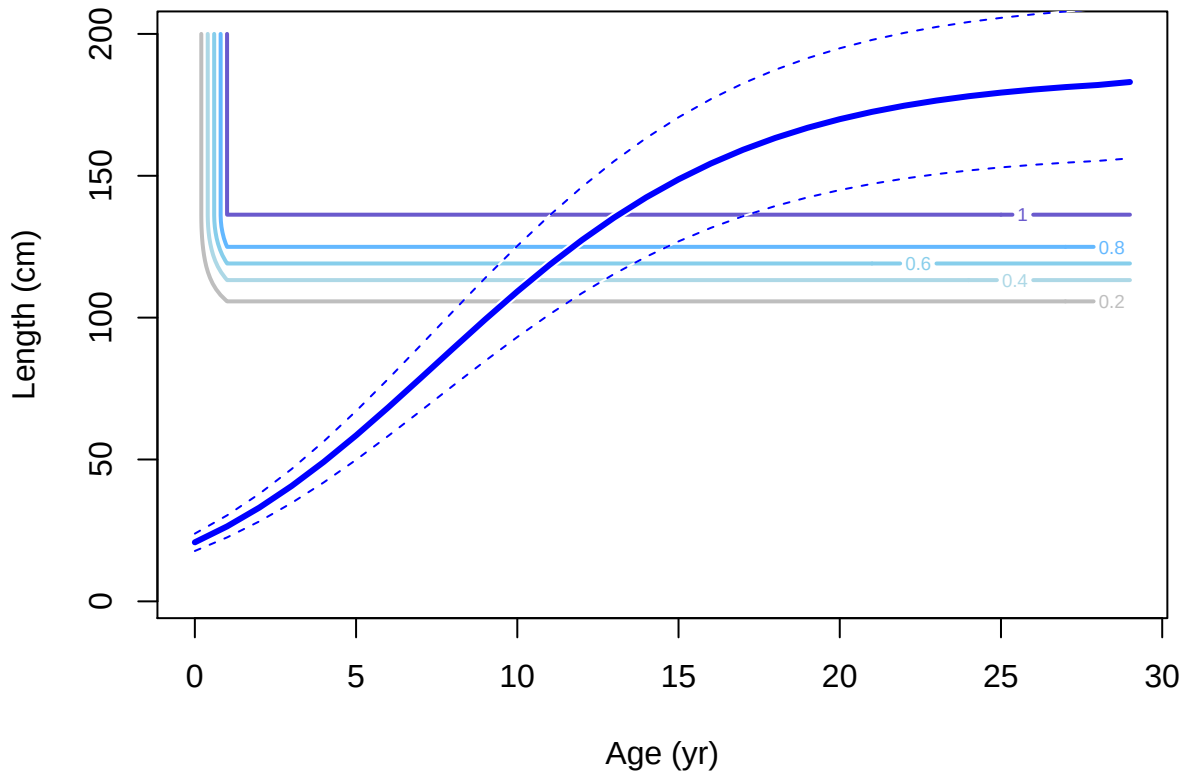
# Male ending year selectivity and growth for F33-LL\_C\_Q23n



## Female ending year selectivity and growth for F34-LL\_E\_Q23n

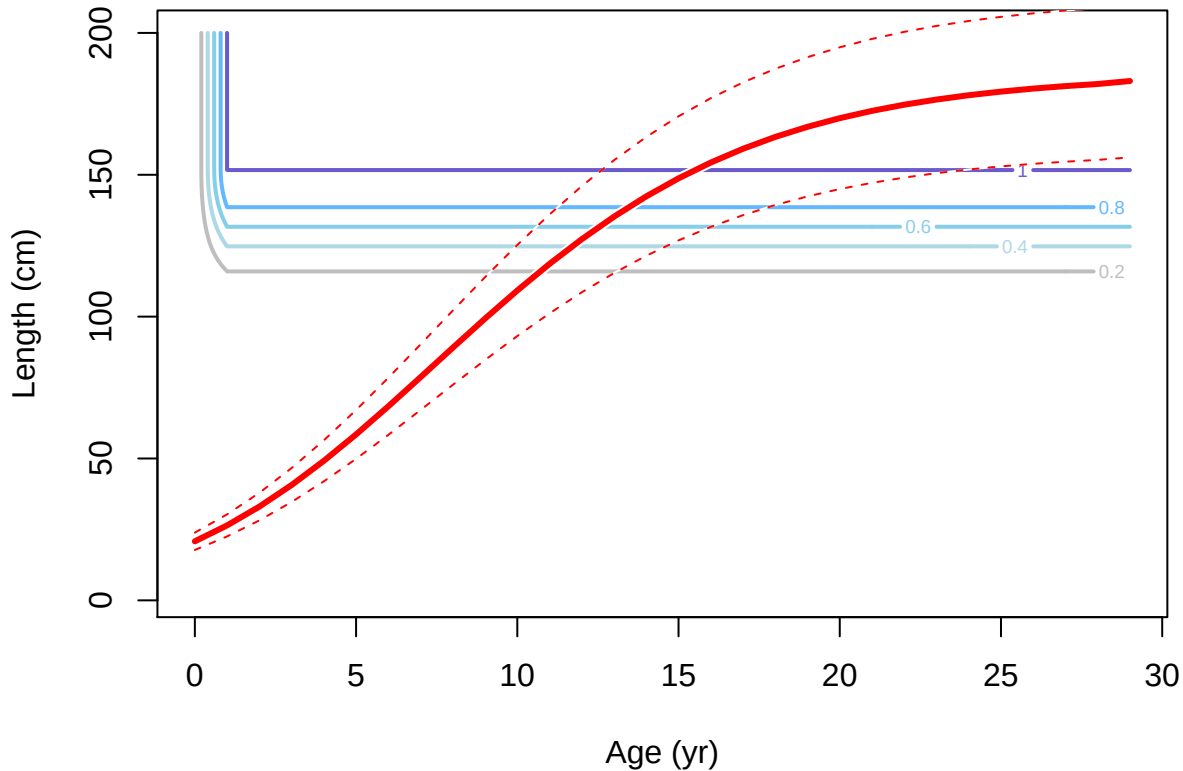


# Male ending year selectivity and growth for F34-LL\_E\_Q23n

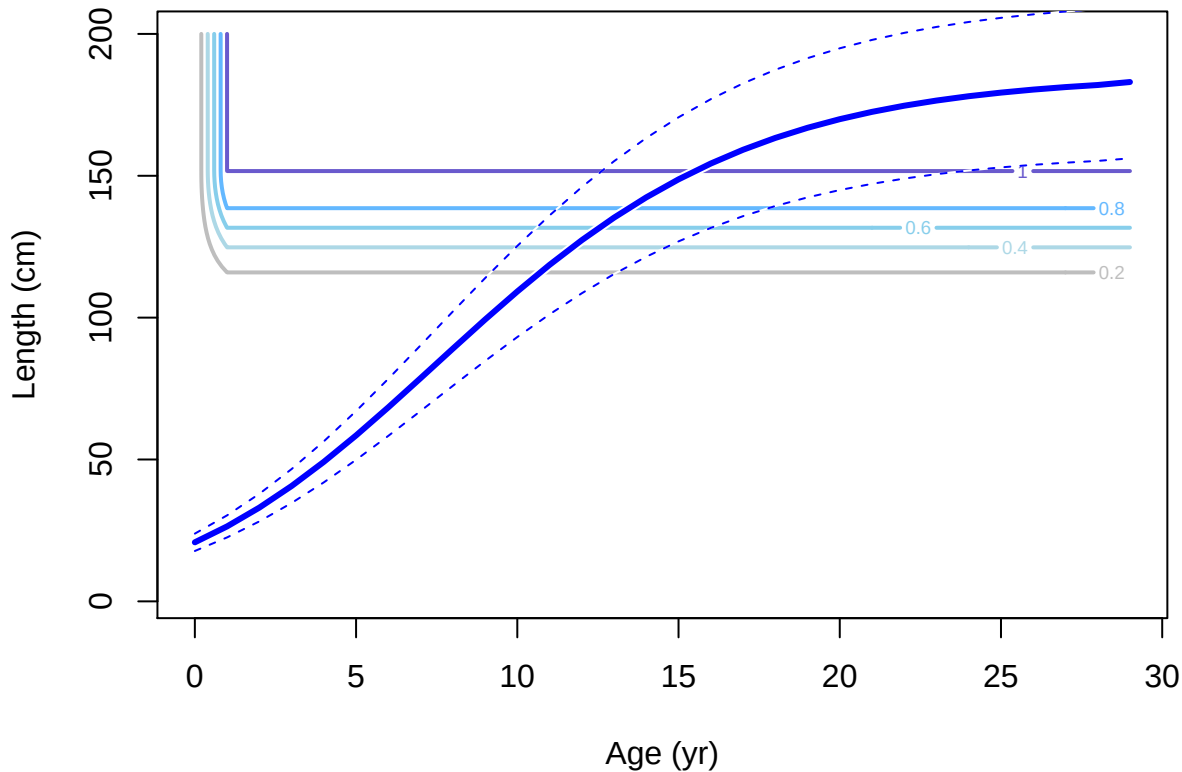




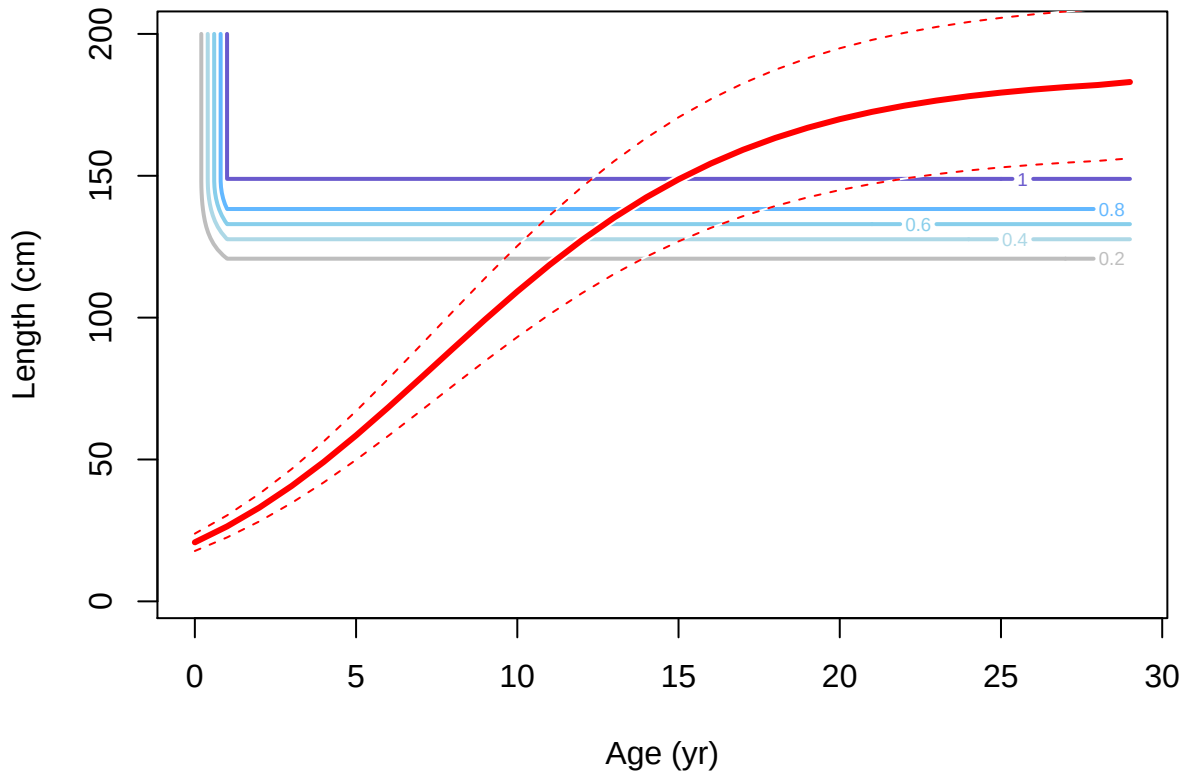
# Female ending year selectivity and growth for F35-LL\_W\_Q14w



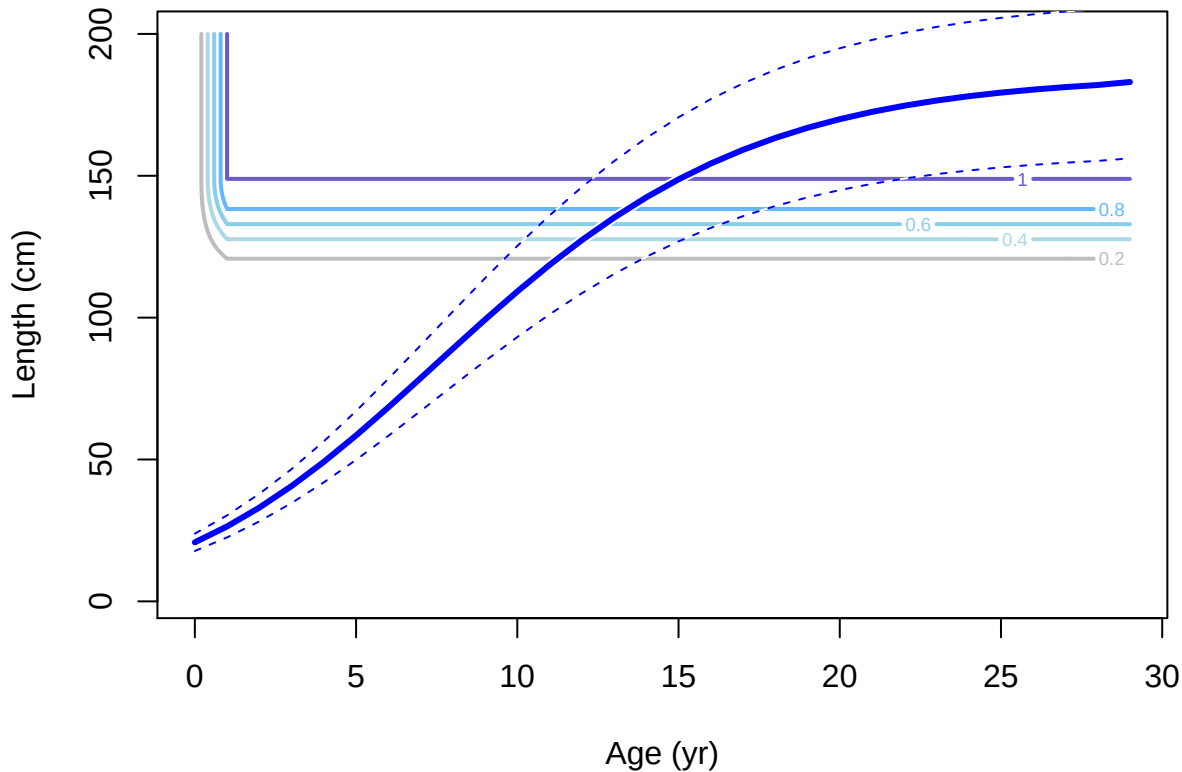
Male ending year selectivity and growth for F35-LL\_W\_Q14w



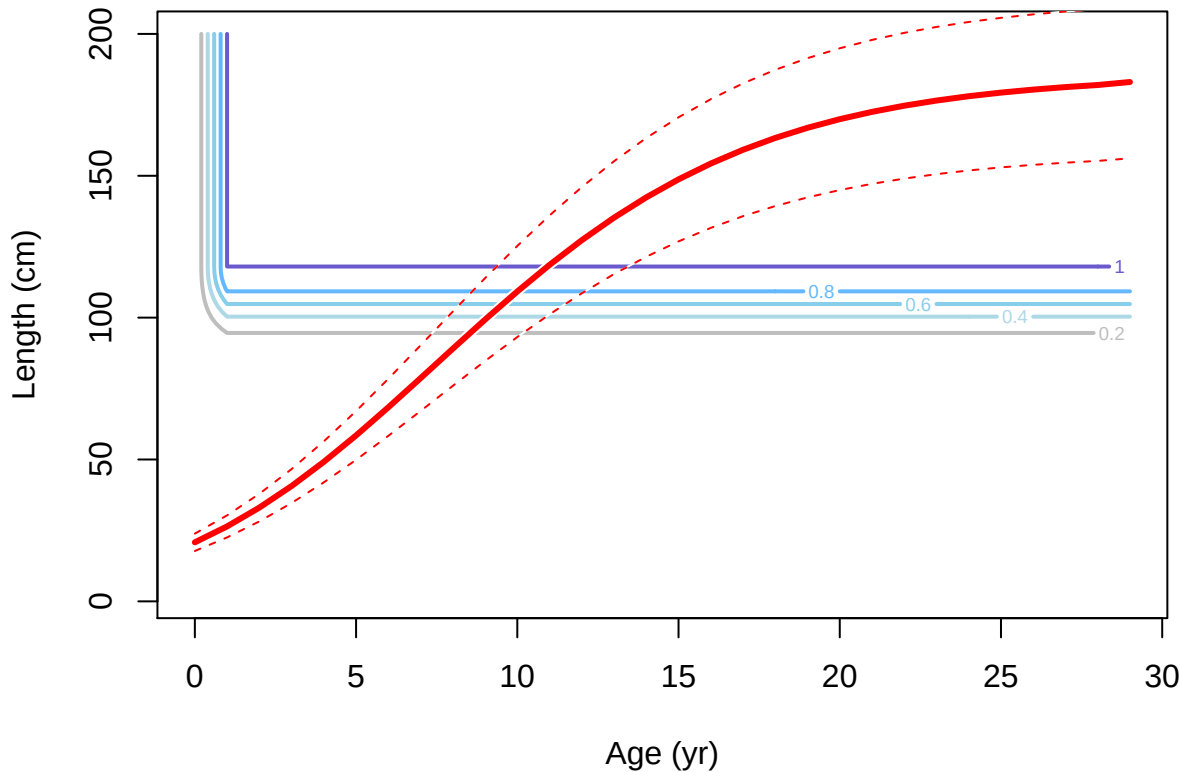
Female ending year selectivity and growth for F36-LL\_C\_Q14w



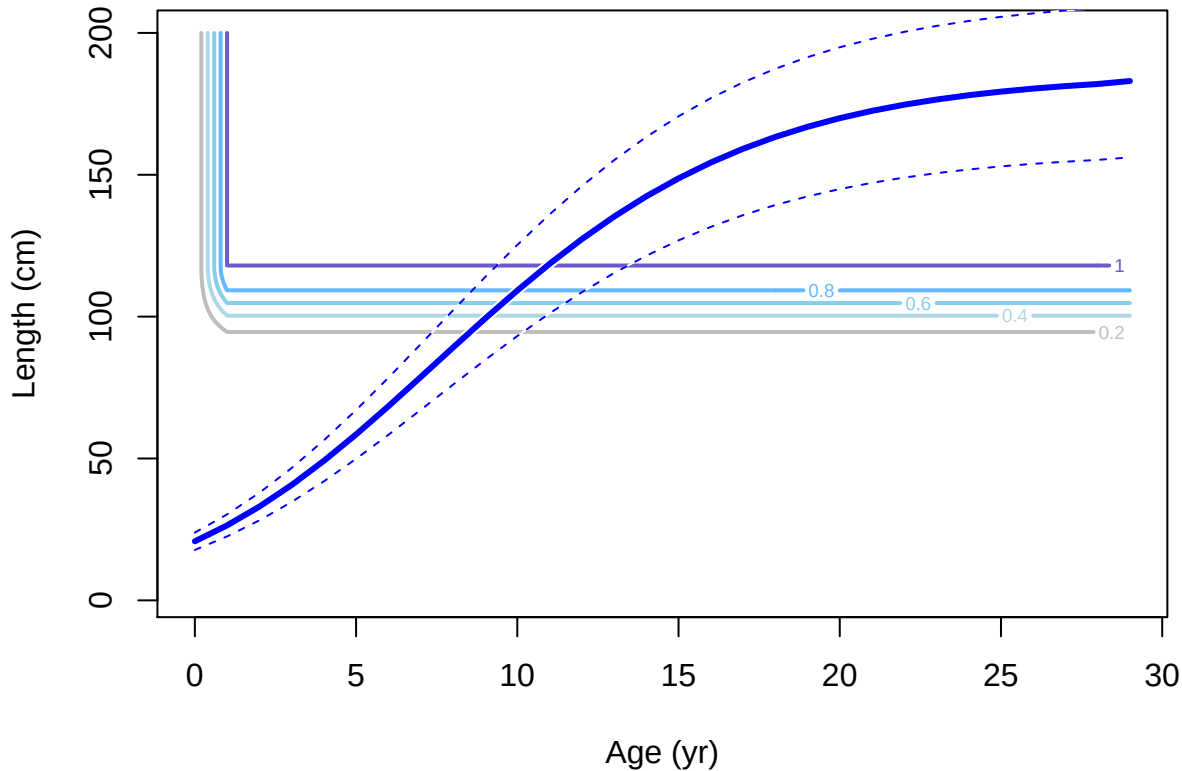
# Male ending year selectivity and growth for F36-LL\_C\_Q14w



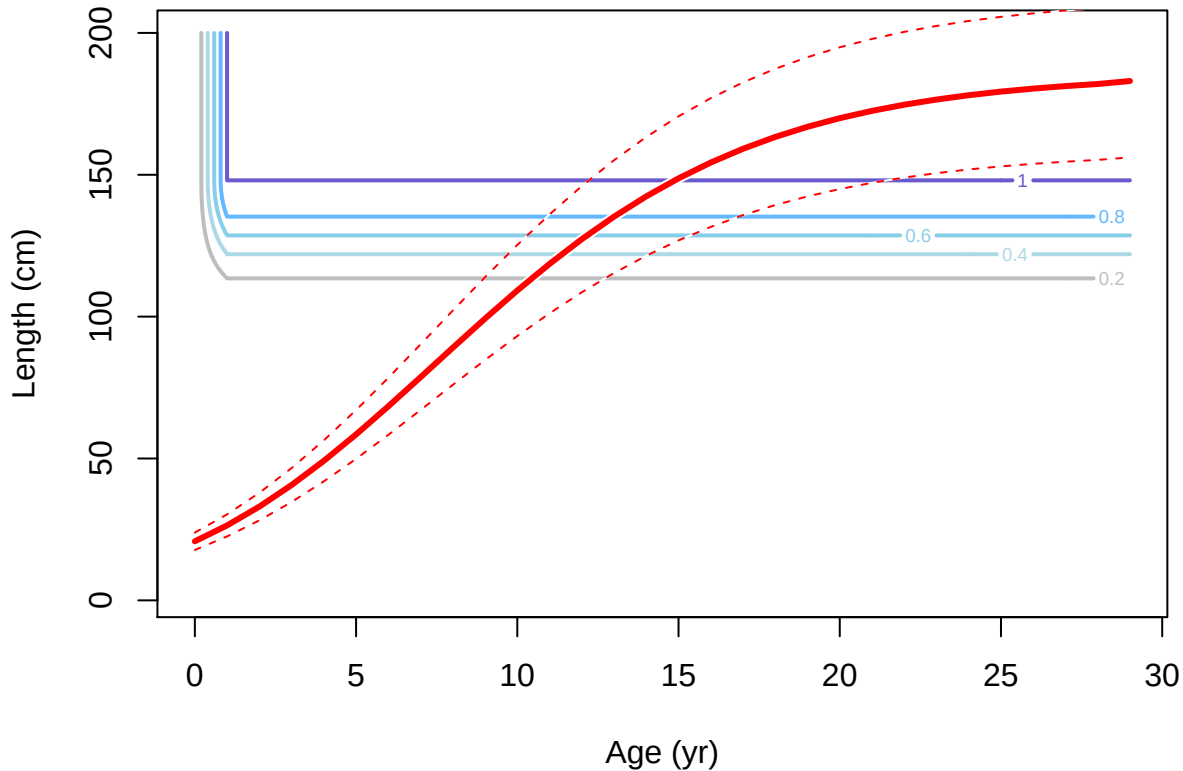
## Female ending year selectivity and growth for F37-LL\_E\_Q14w



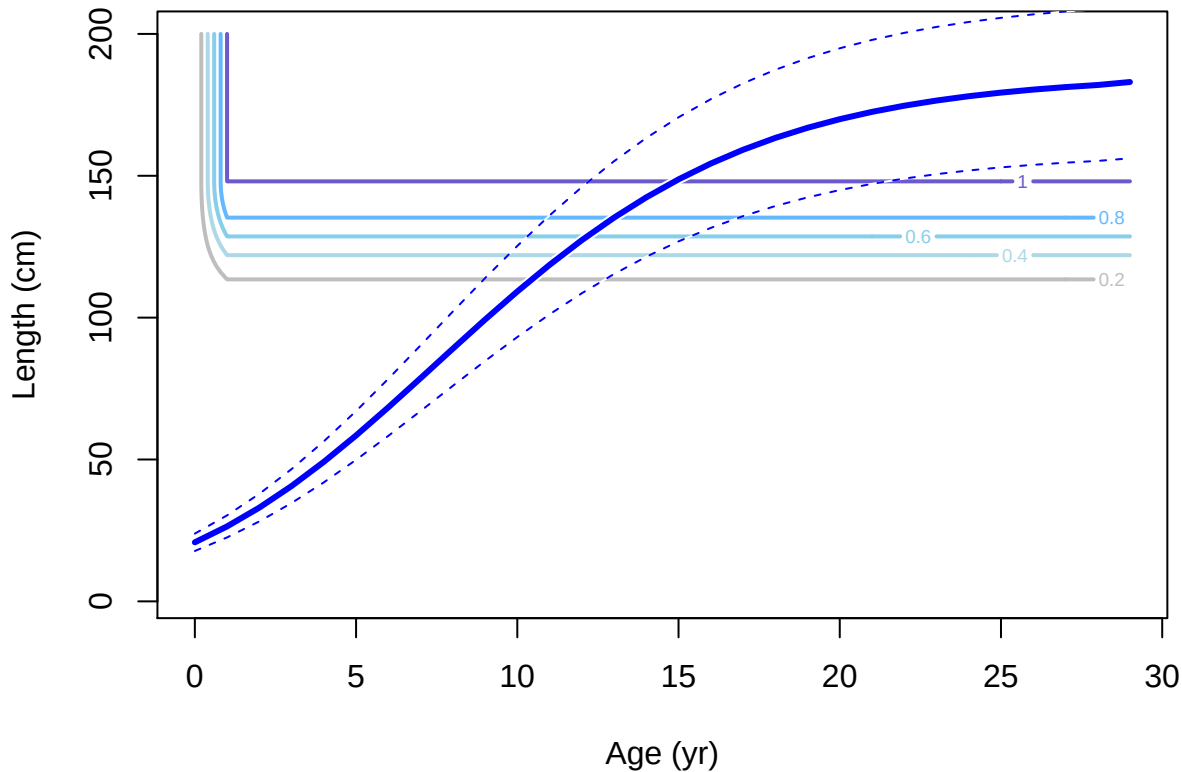
# Male ending year selectivity and growth for F37-LL\_E\_Q14w



**Female ending year selectivity and growth for F38-LL\_W\_Q23w**

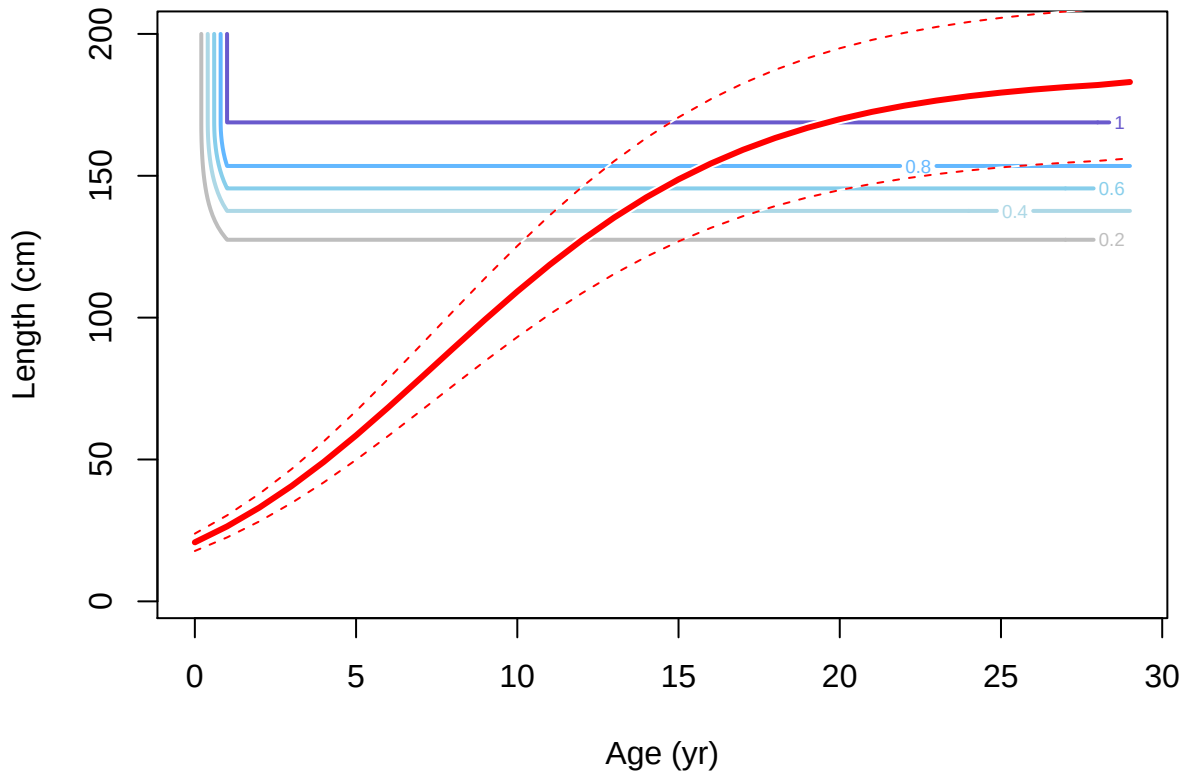


# Male ending year selectivity and growth for F38-LL\_W\_Q23w

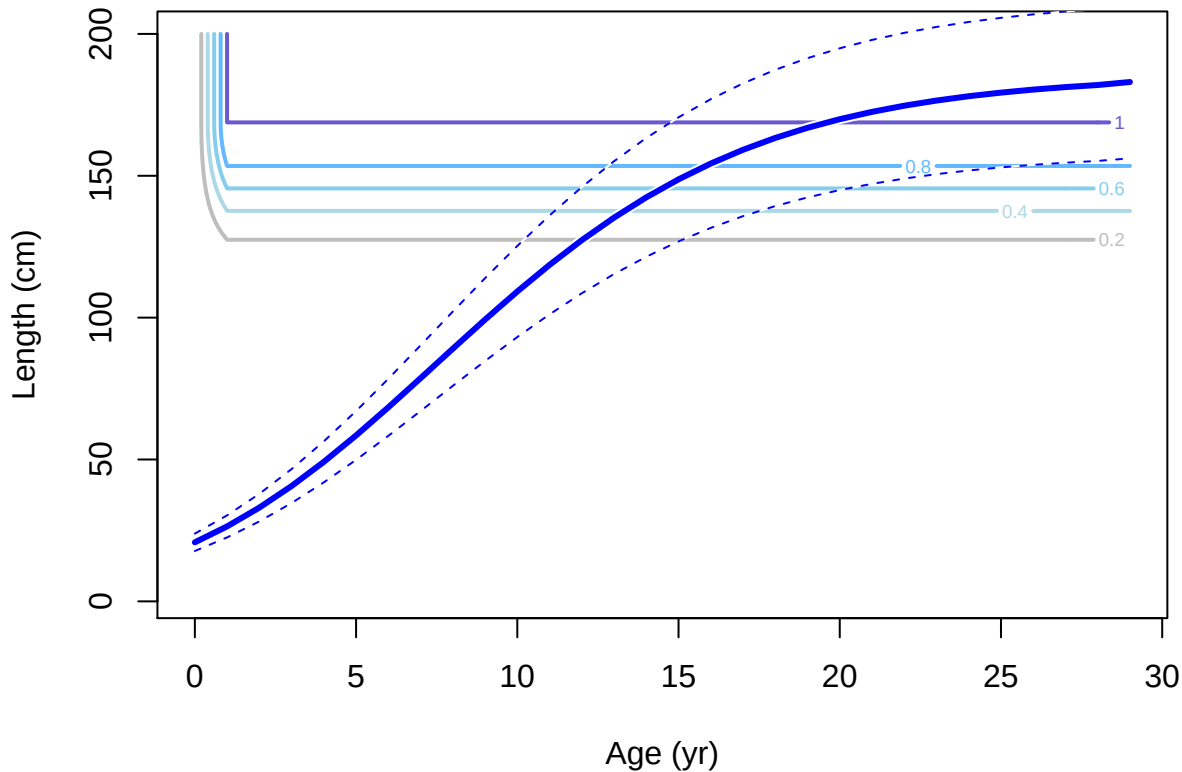




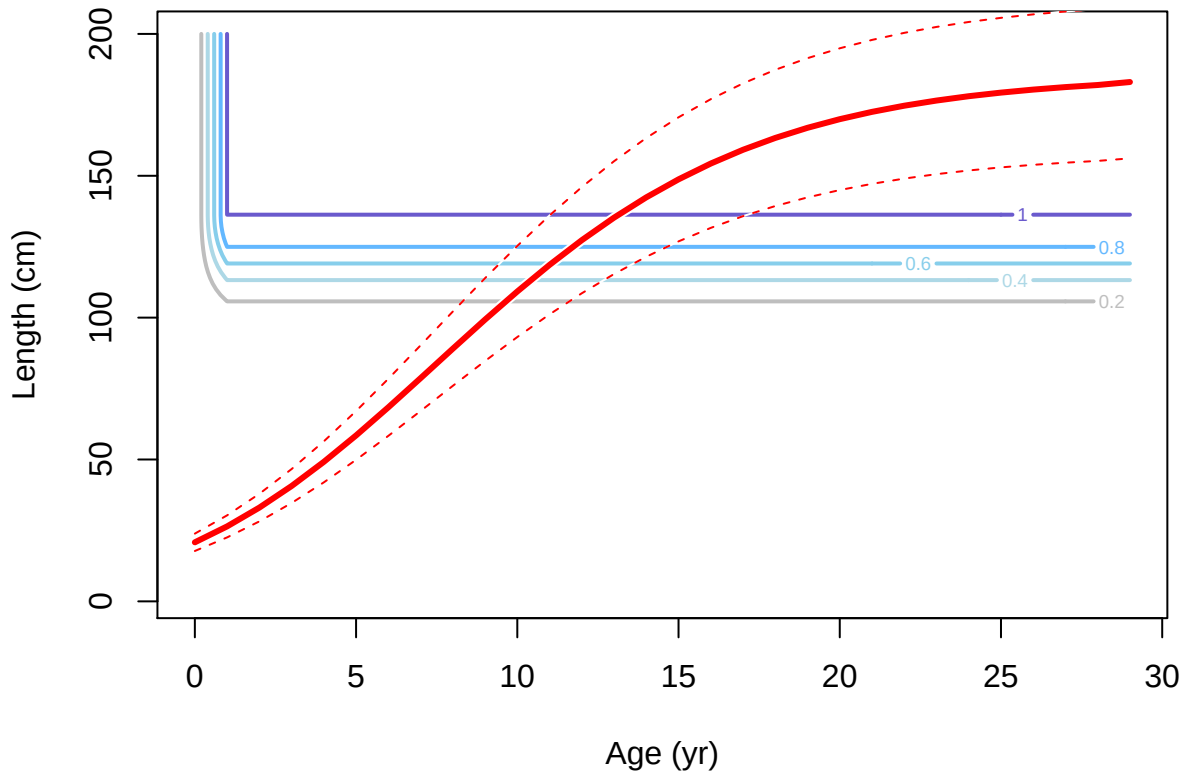
**Female ending year selectivity and growth for F39-LL\_C\_Q23w**



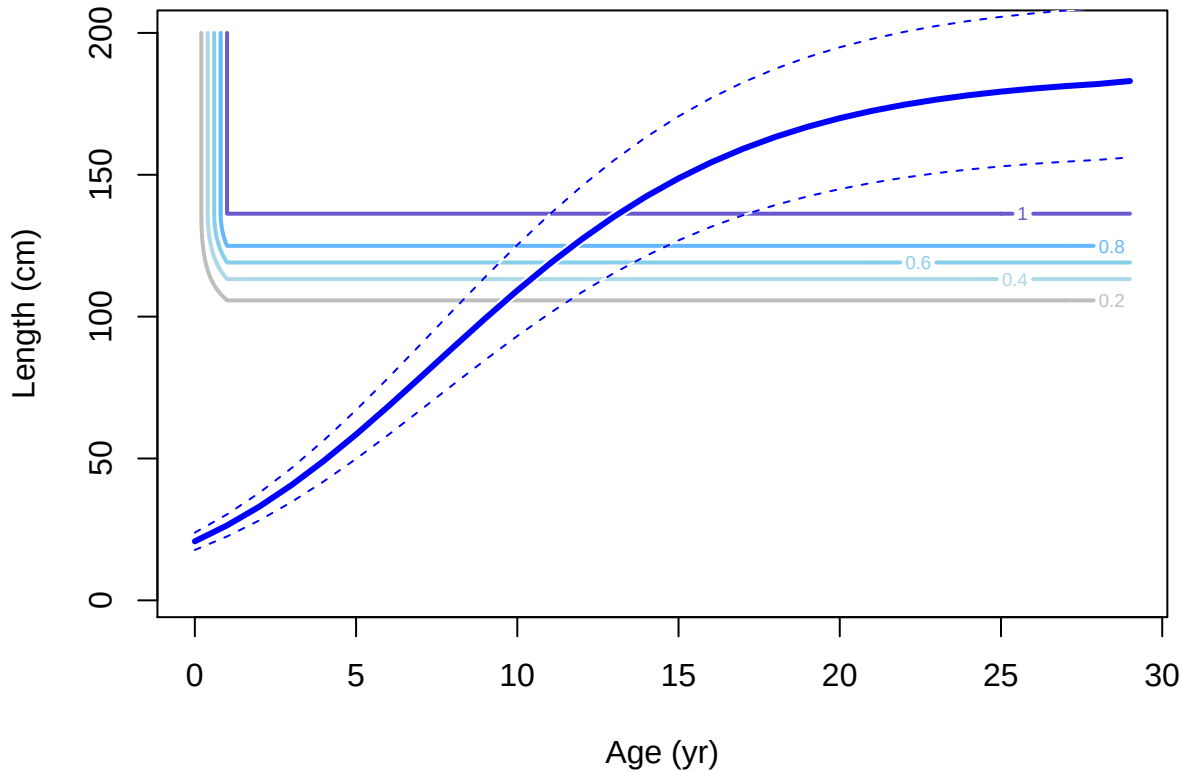
# Male ending year selectivity and growth for F39-LL\_C\_Q23w



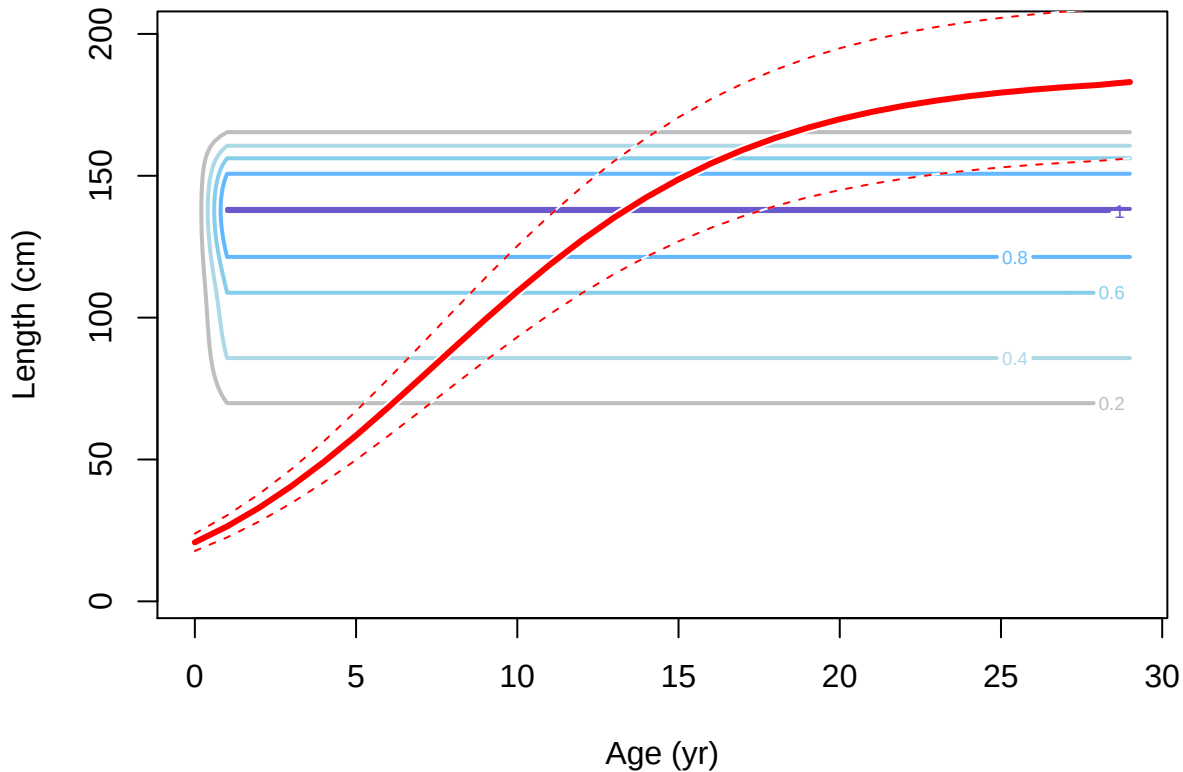
## Female ending year selectivity and growth for F40-LL\_E\_Q23w



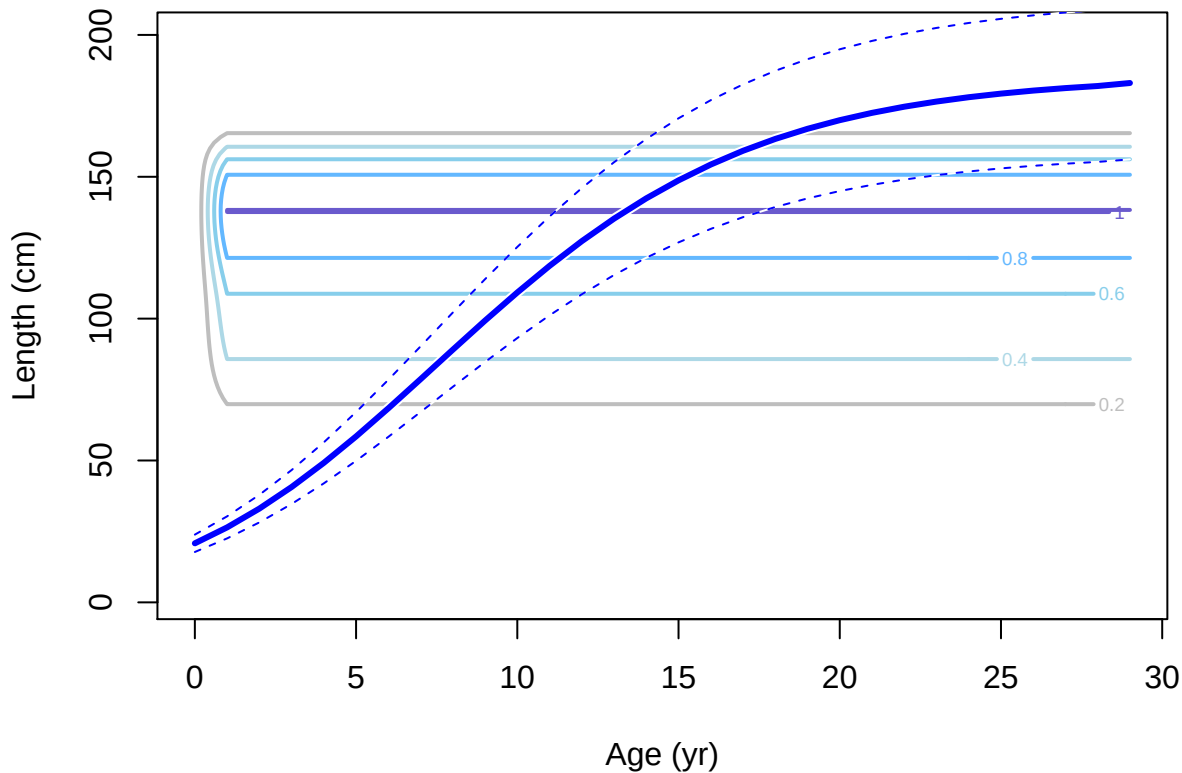
# Male ending year selectivity and growth for F40-LL\_E\_Q23w



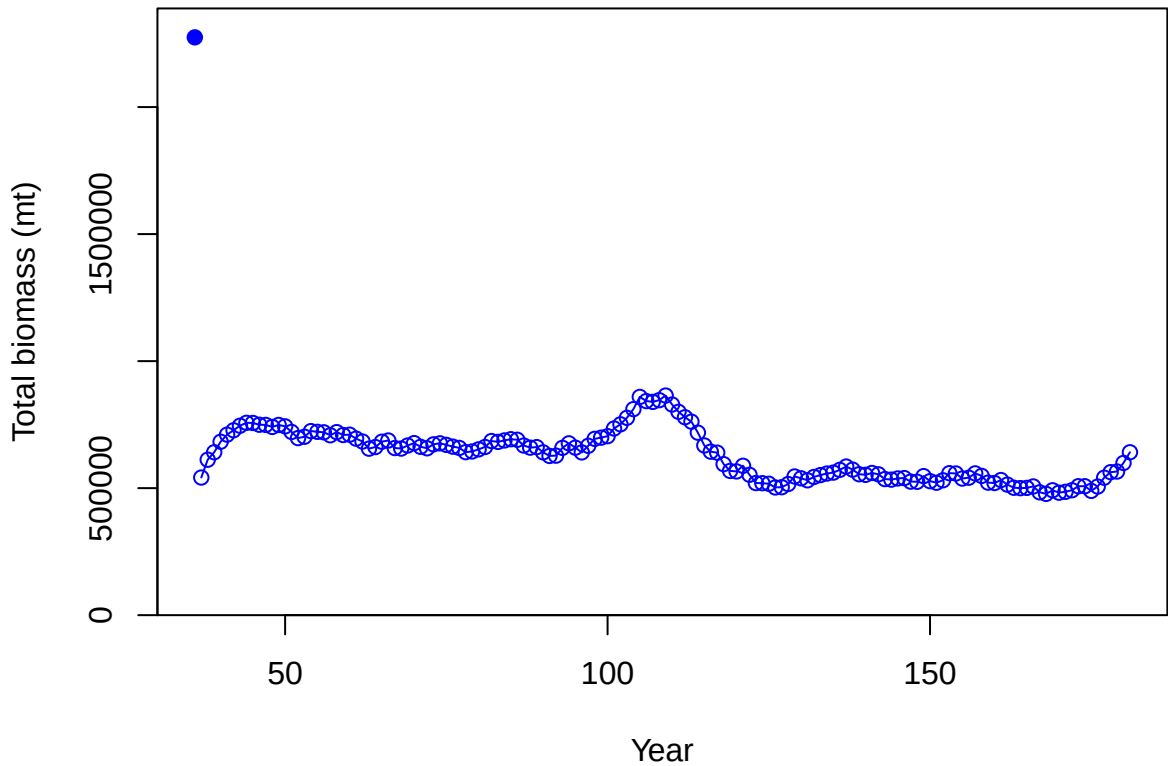
## Female ending year selectivity and growth for S1-PS\_DEL\_VAST



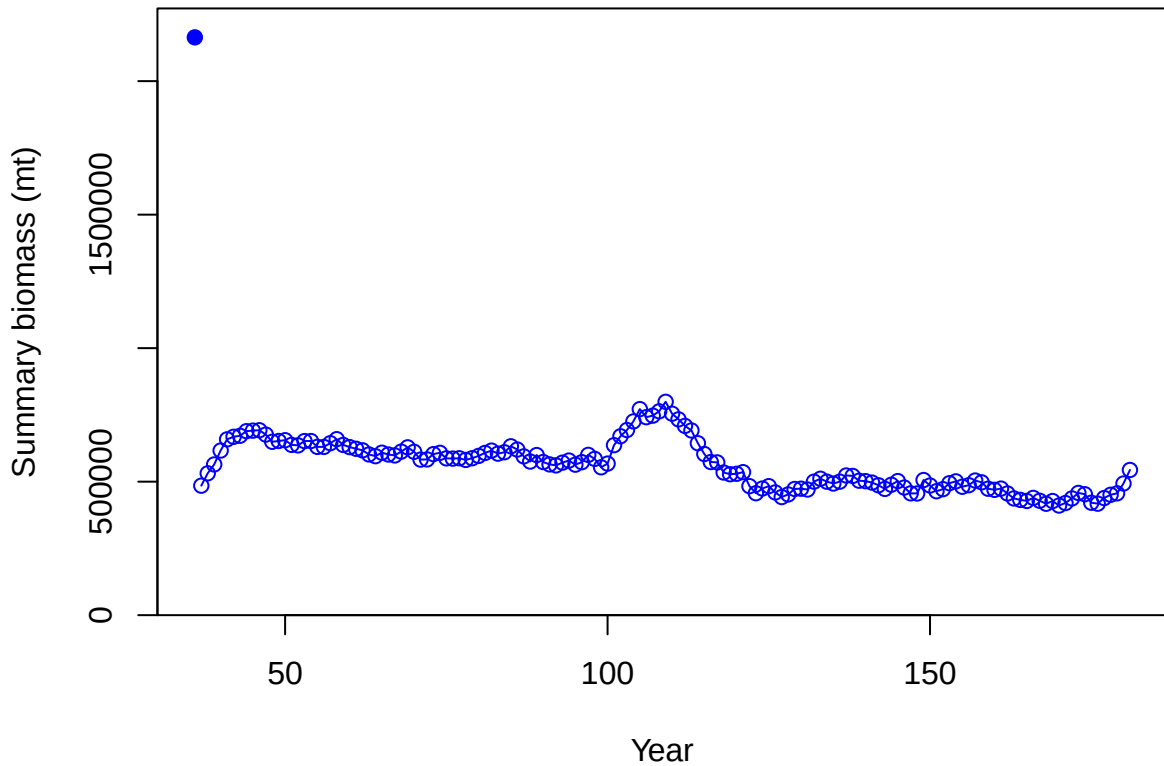
# Male ending year selectivity and growth for S1-PS\_DEL\_VAST



## Total biomass (mt)

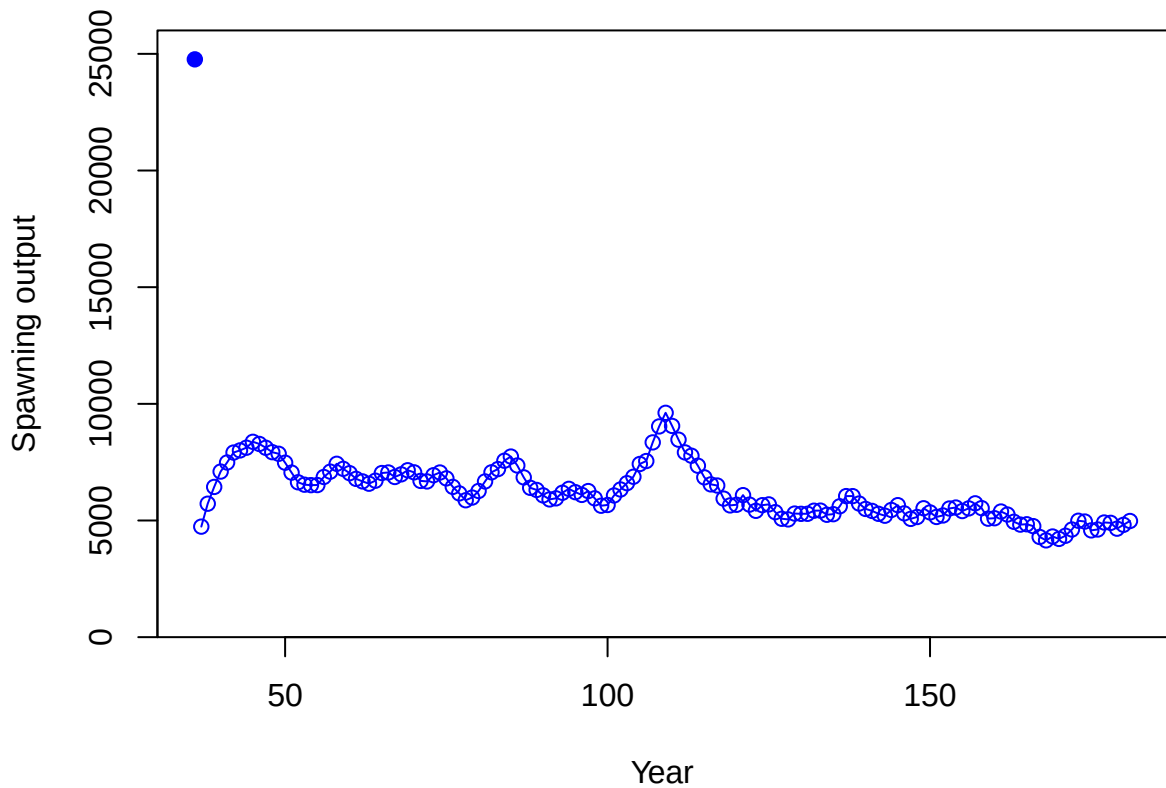


## Summary biomass (mt)

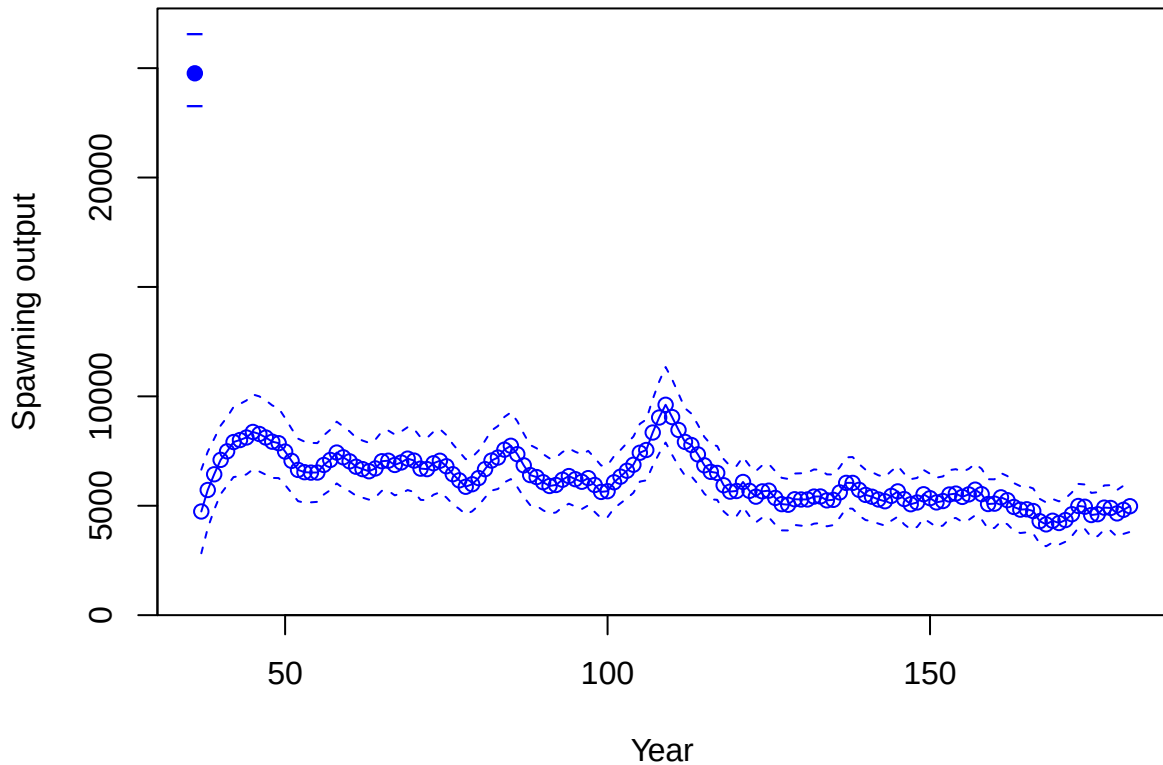




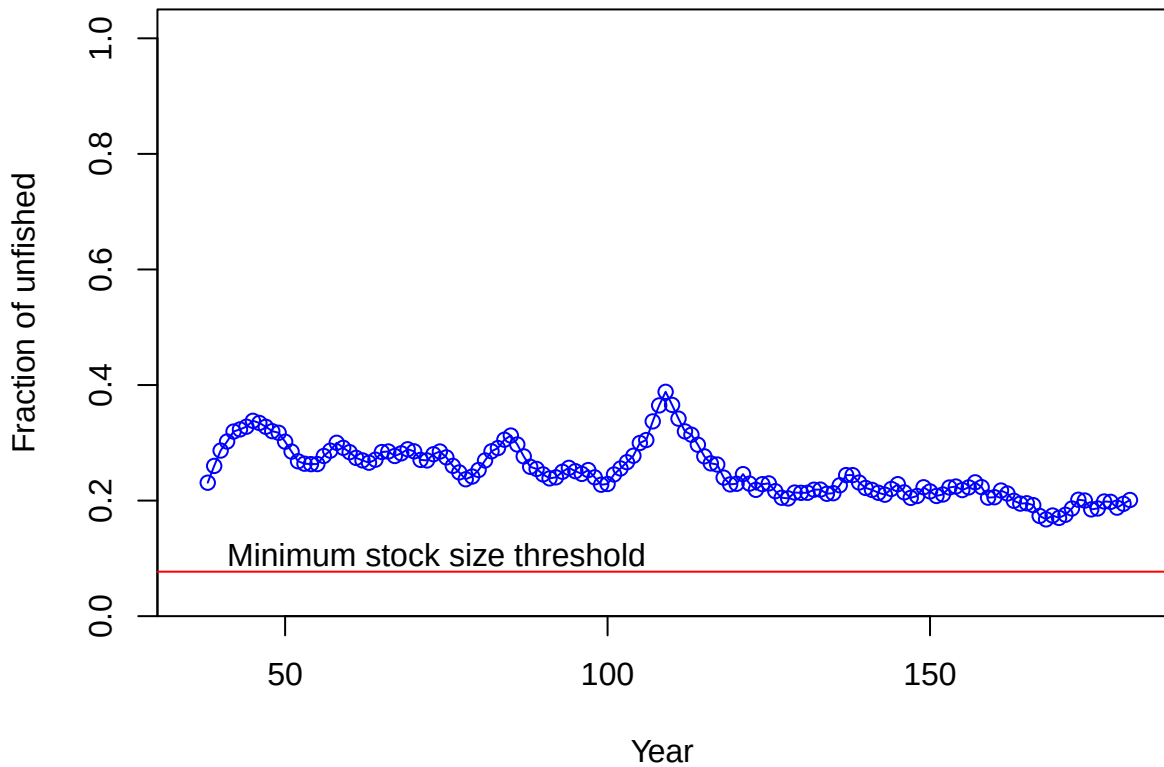
## Spawning output



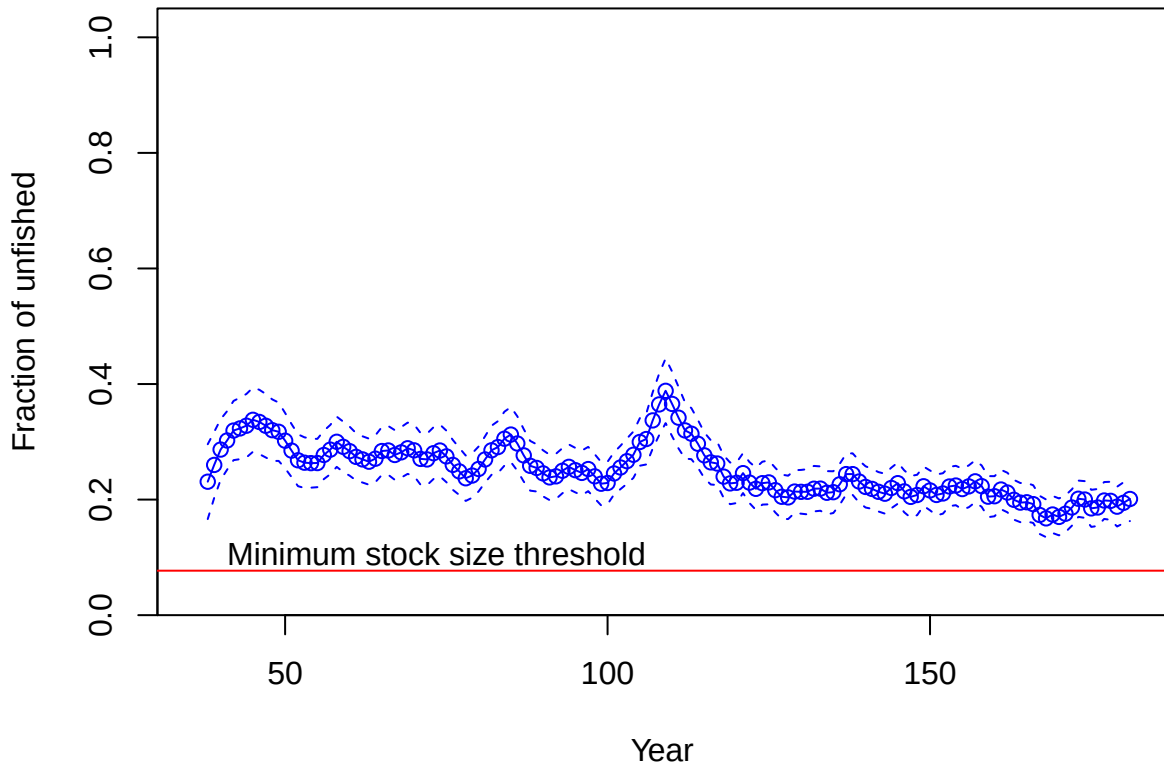
## Spawning output with ~95% asymptotic intervals



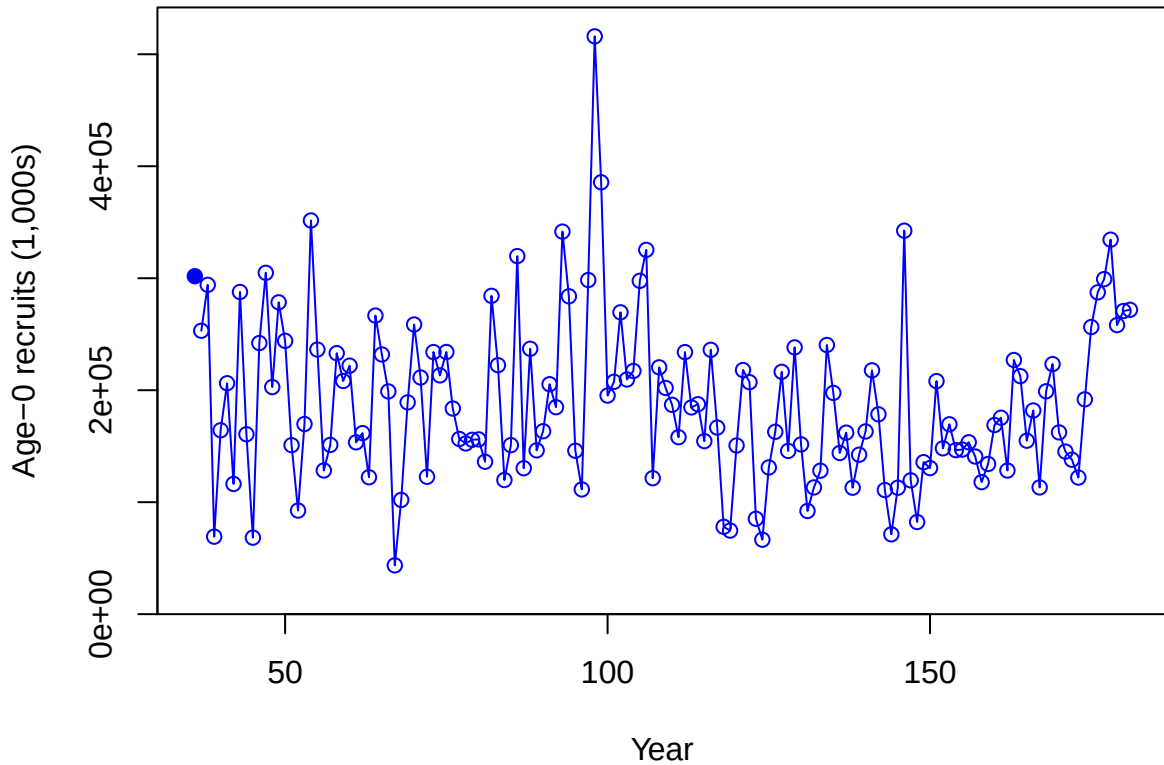
## Fraction of unfished



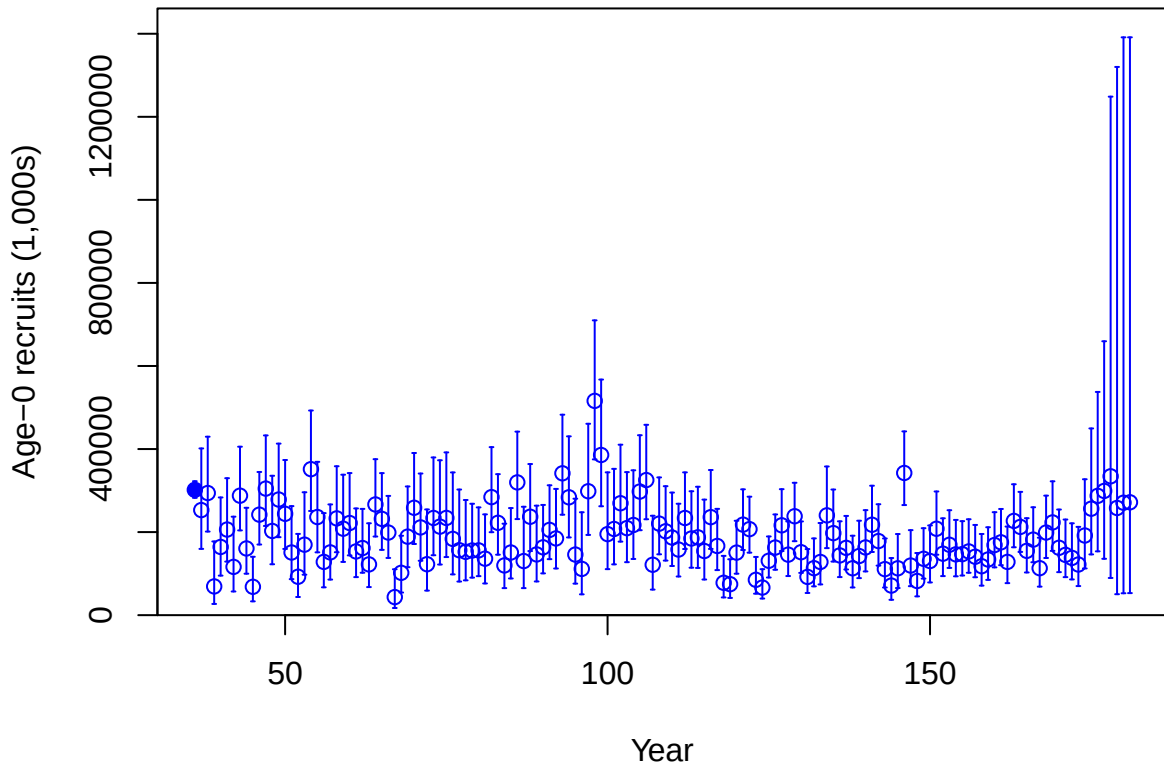
## Fraction of unfished with ~95% asymptotic intervals



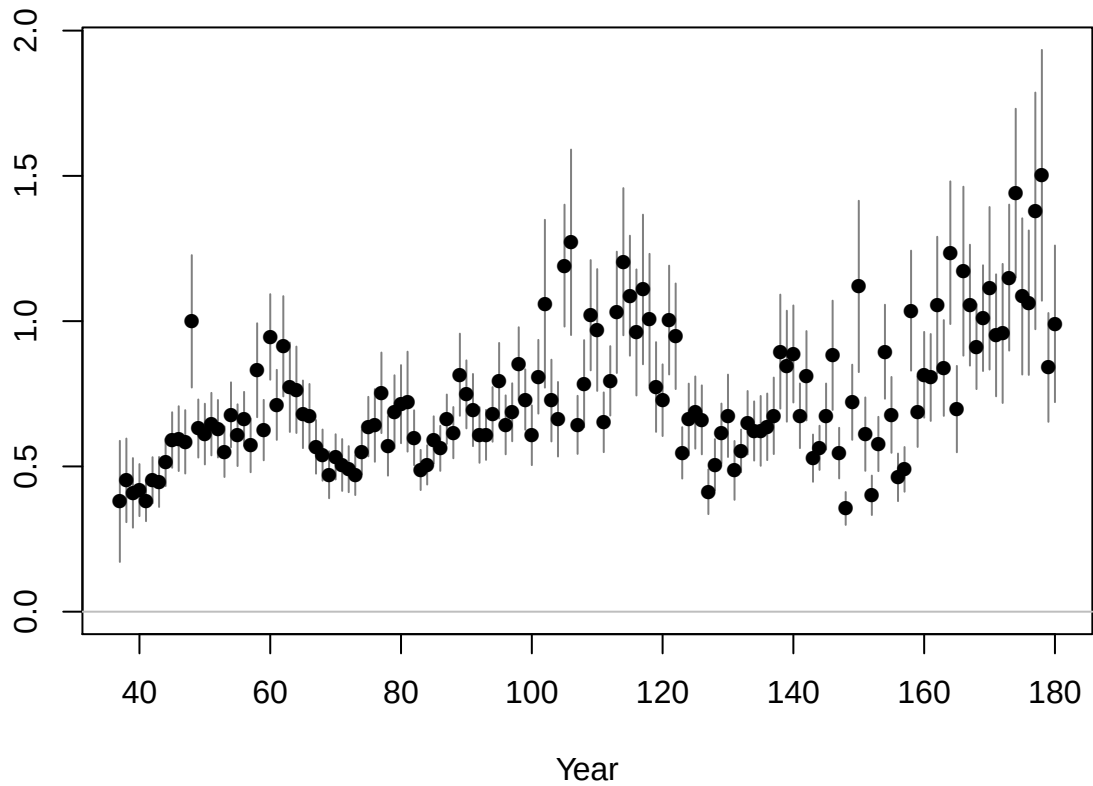
# Age-0 recruits (1,000s)

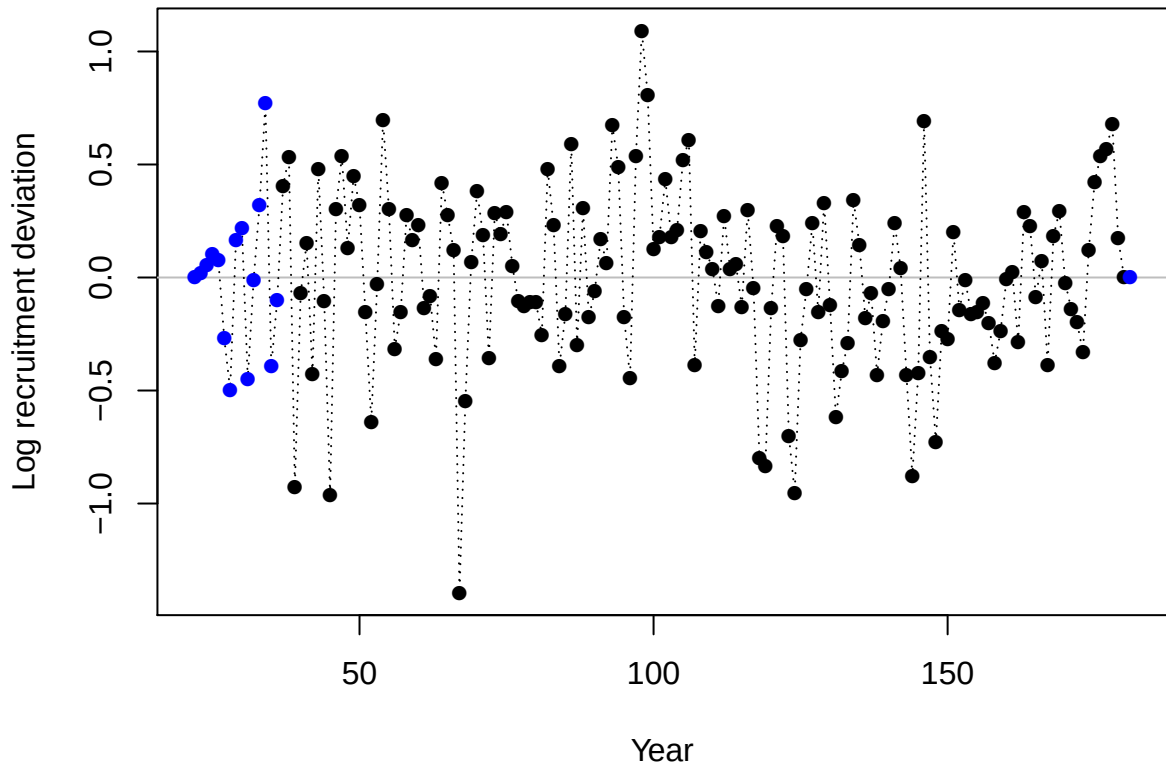


**Age-0 recruits (1,000s) with ~95% asymptotic intervals**



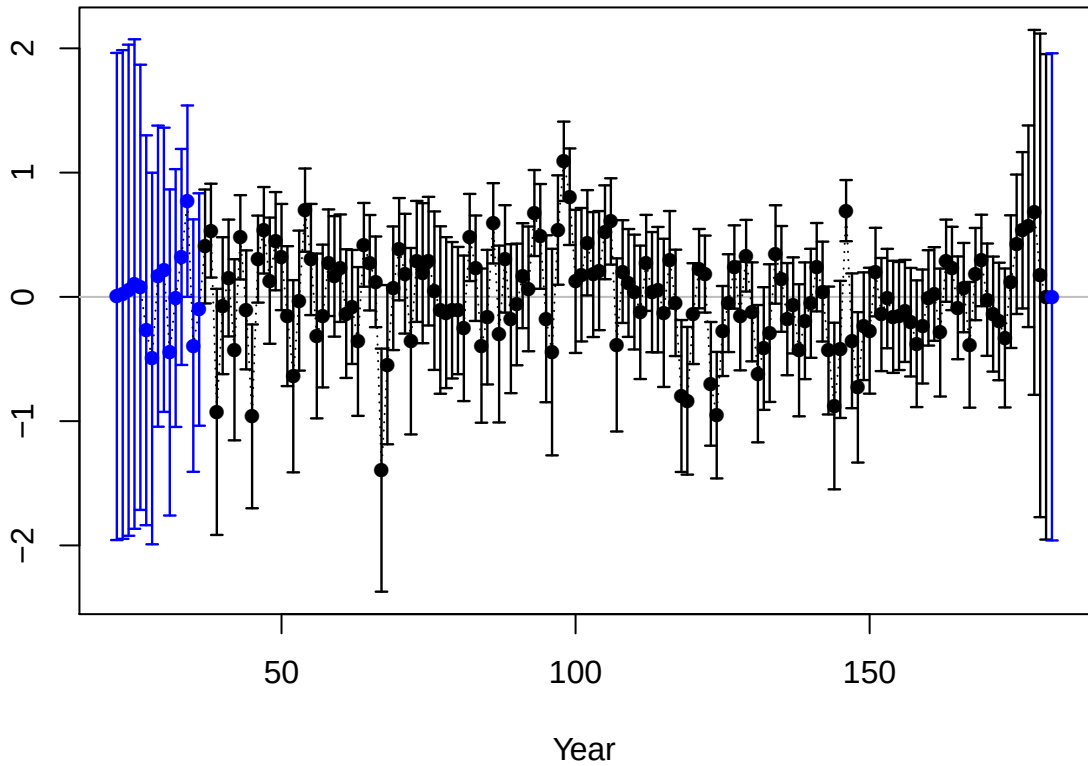
Summary Fishing Mortality



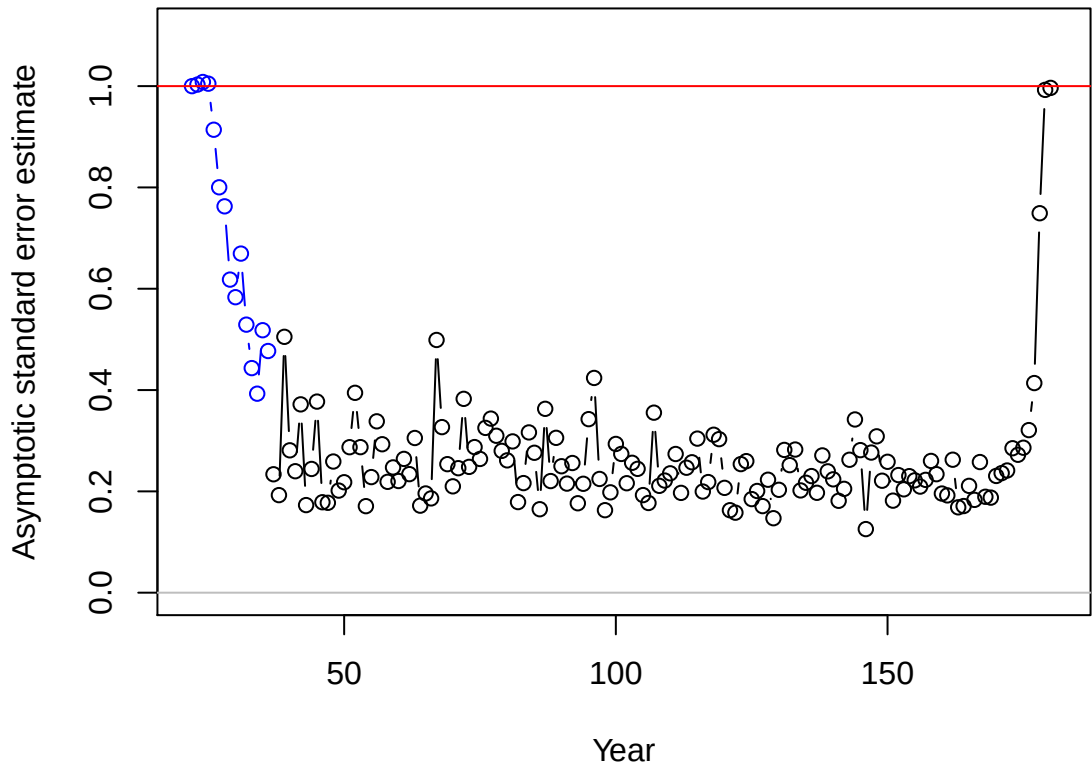


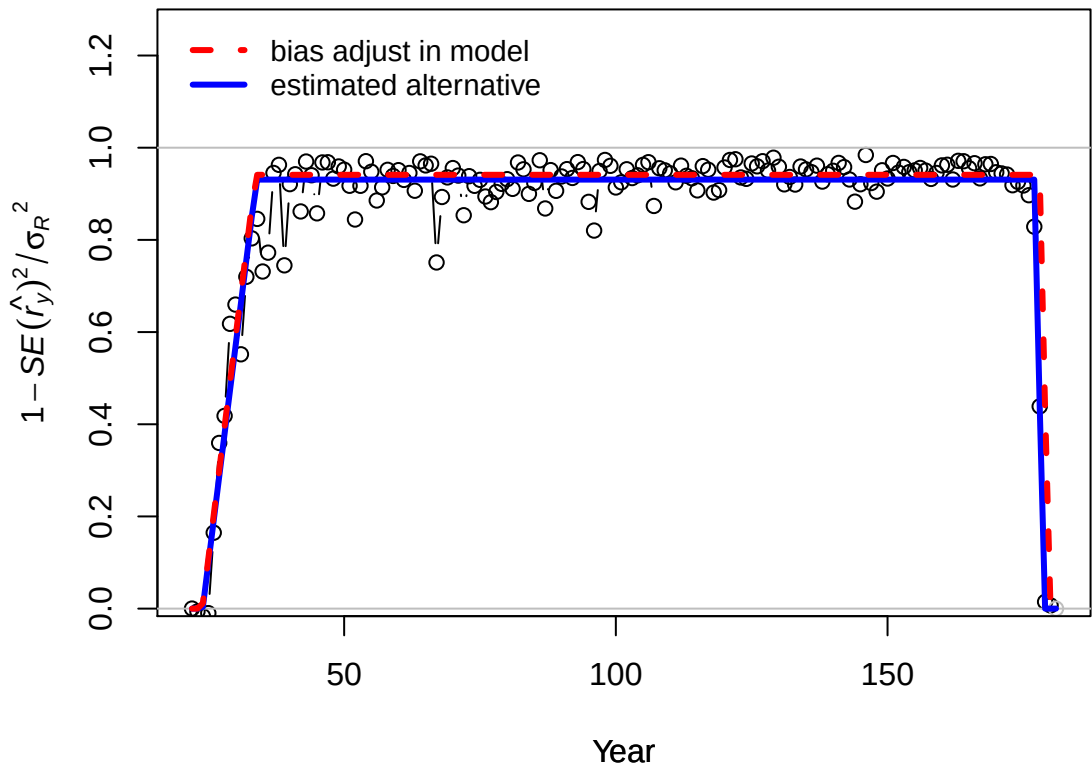


Log recruitment deviation

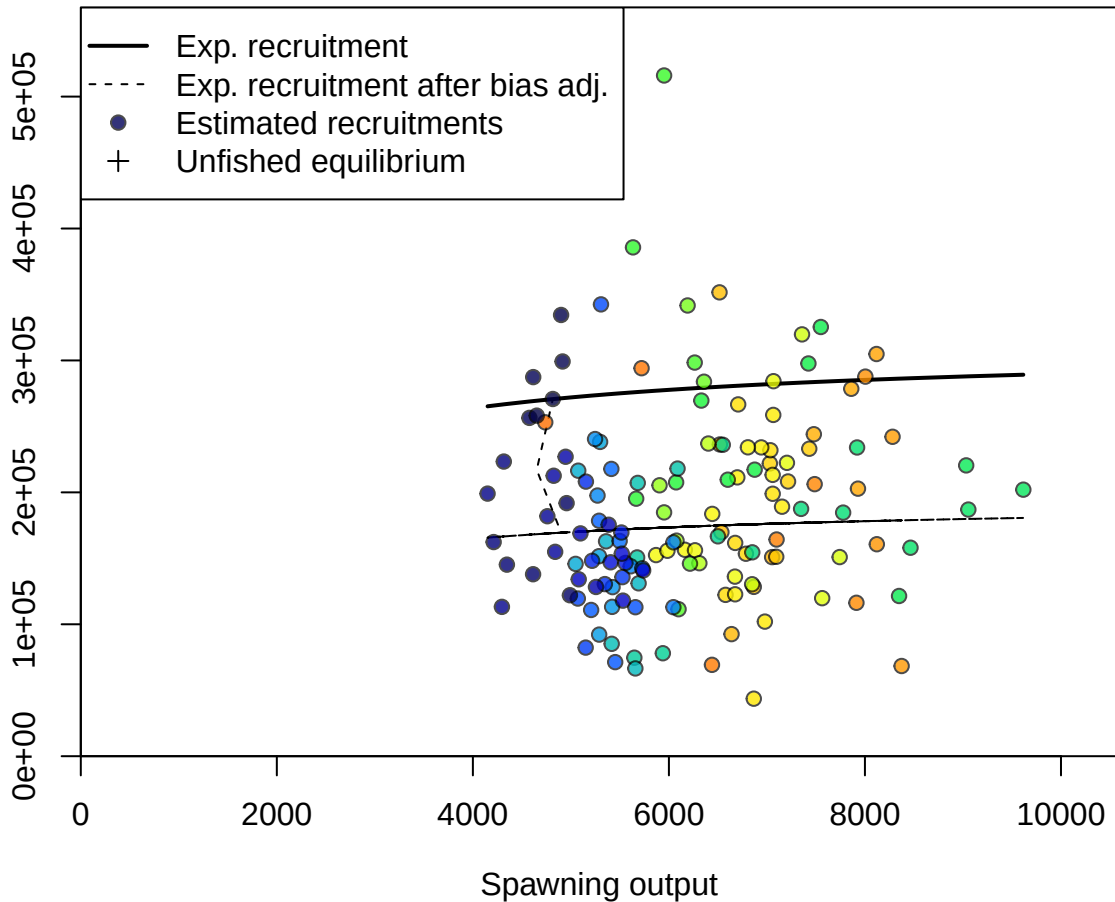


## Recruitment deviation variance

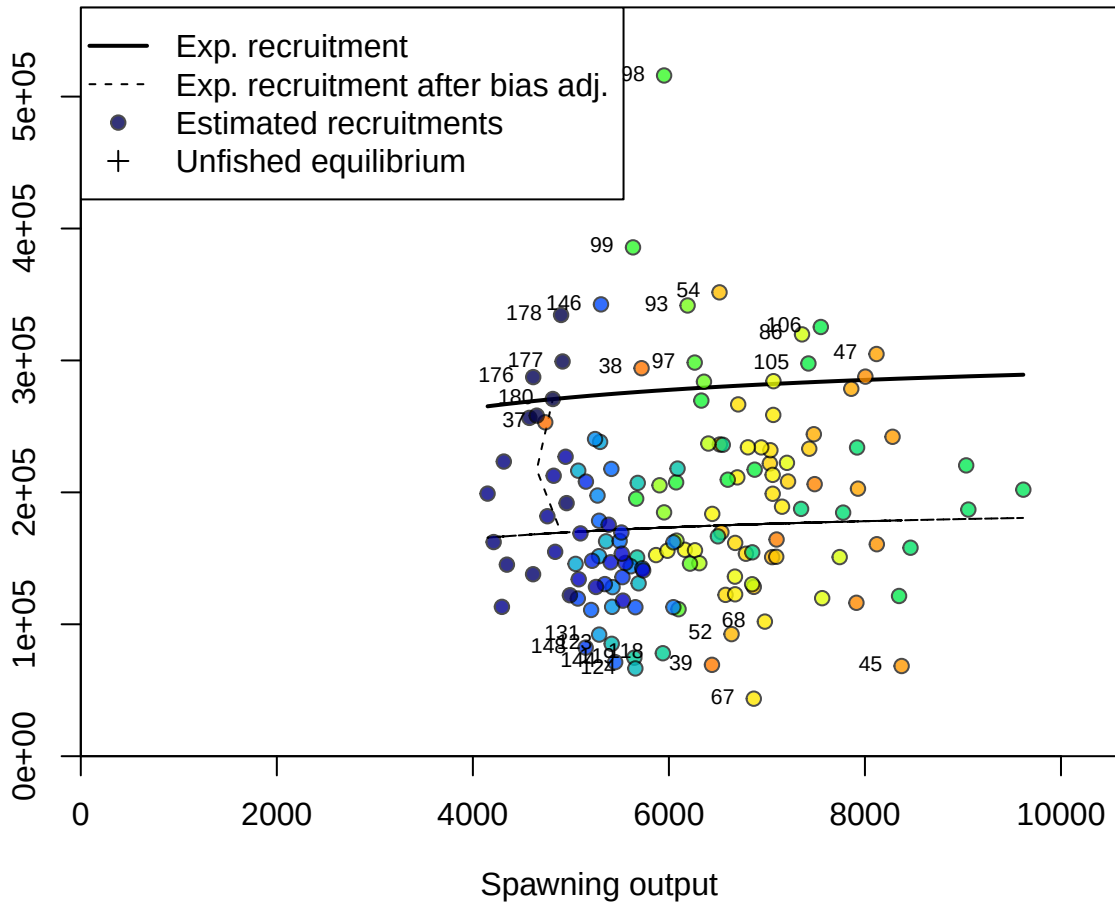




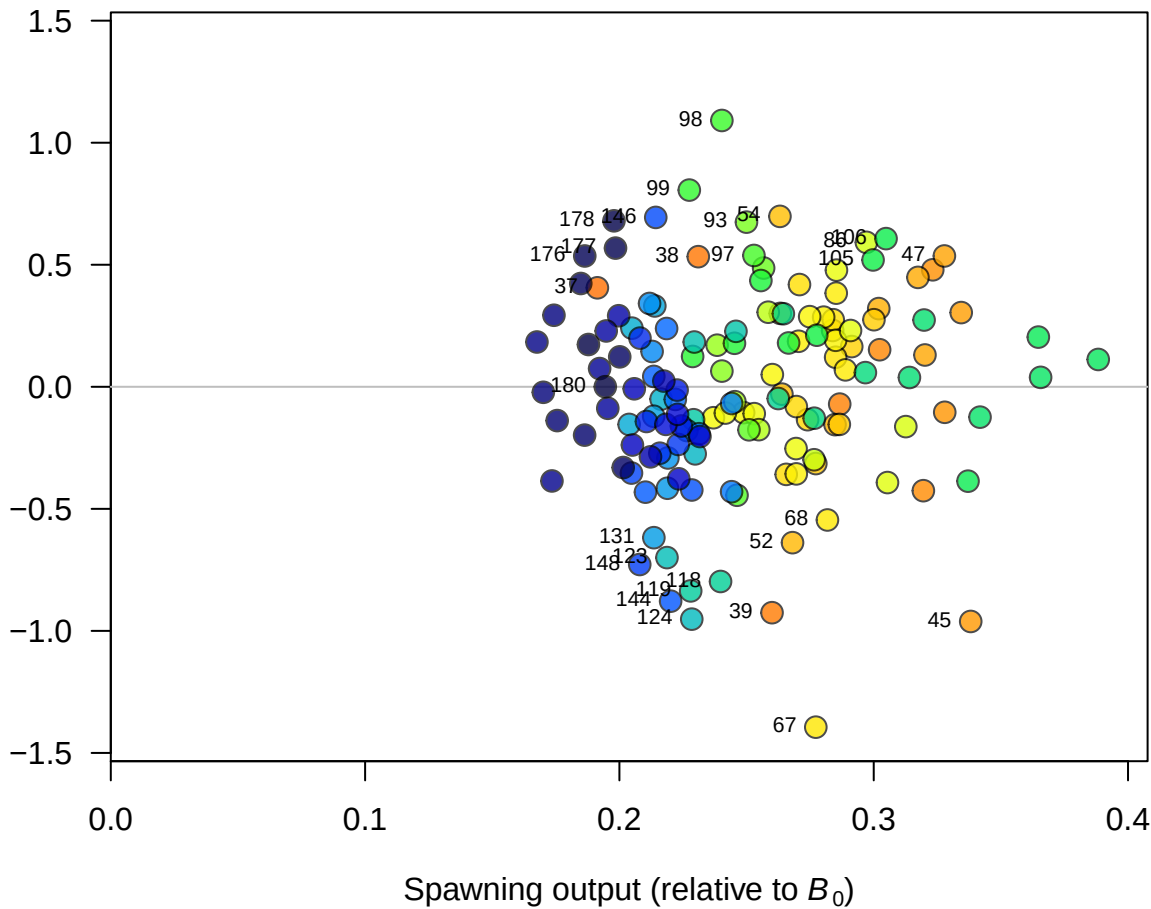
Recruitment (1,000s)

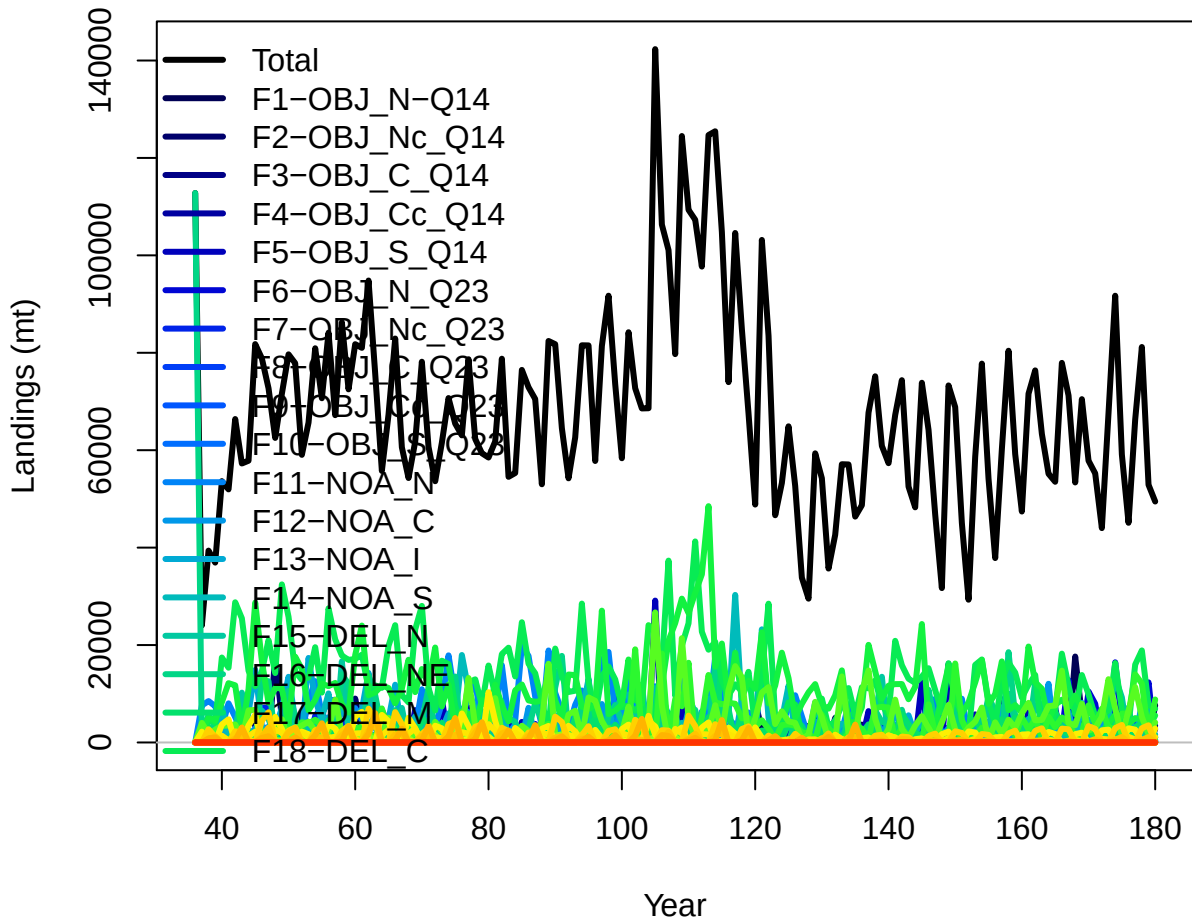


Recruitment (1,000s)

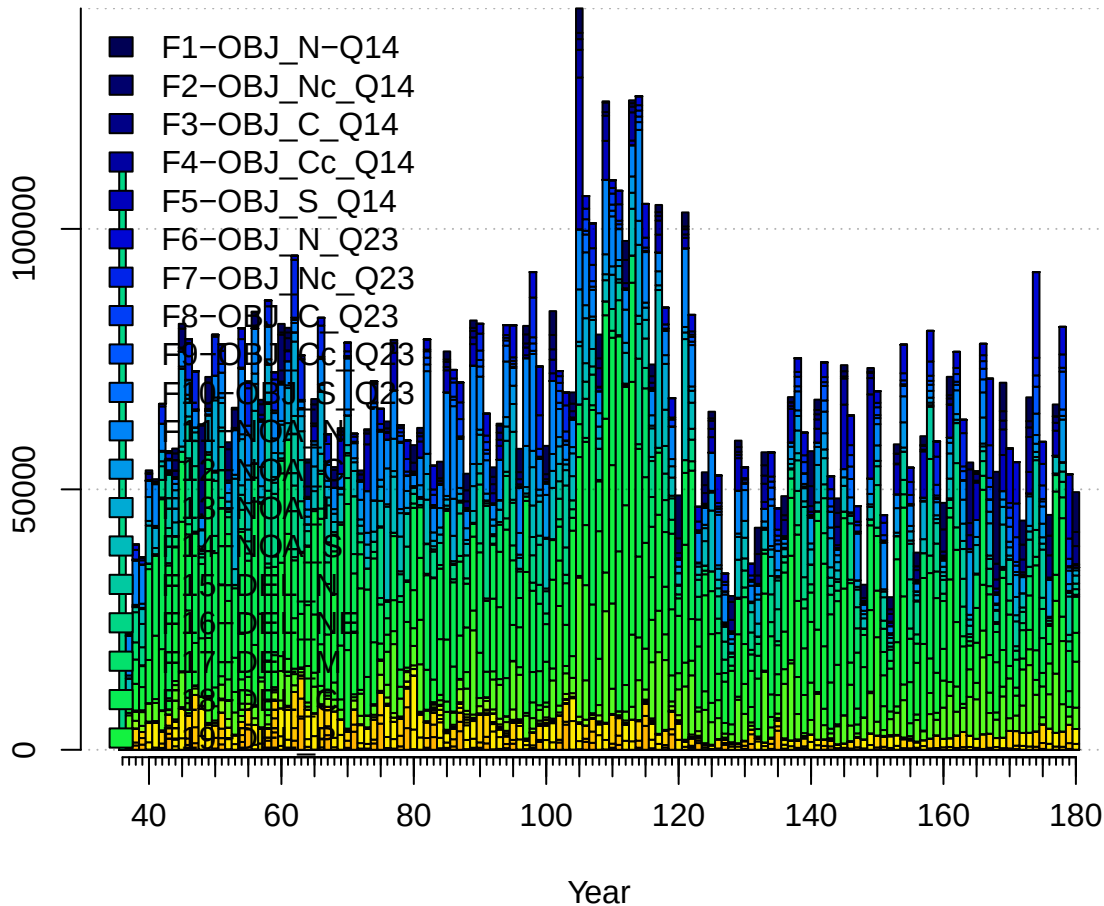


Log recruitment deviation



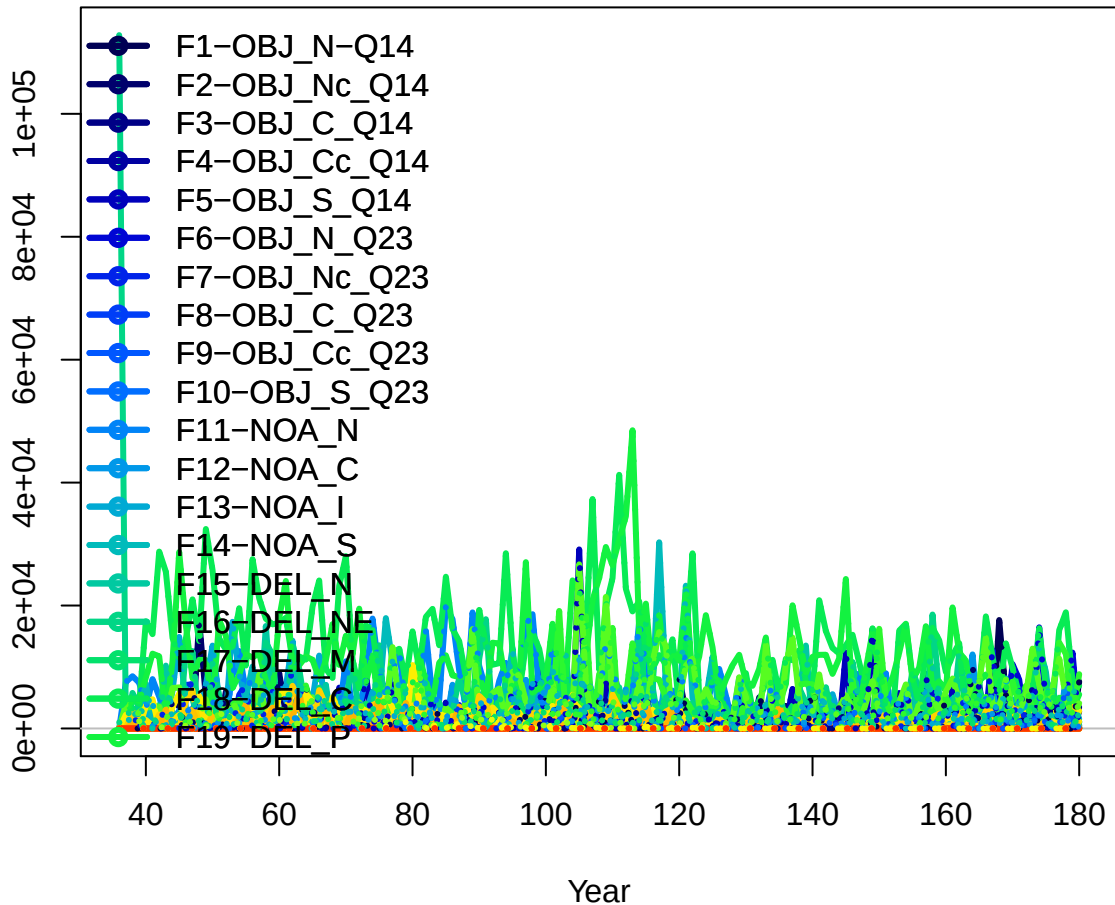


Landings (mt)

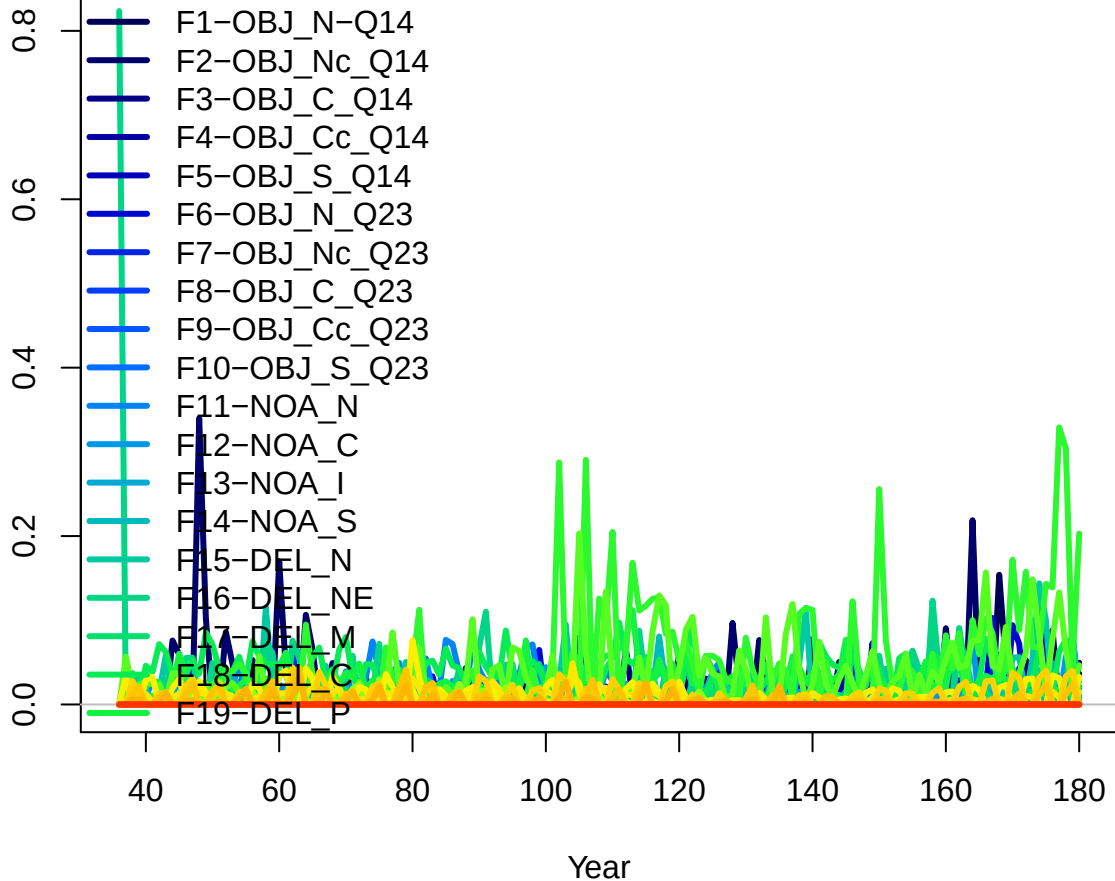




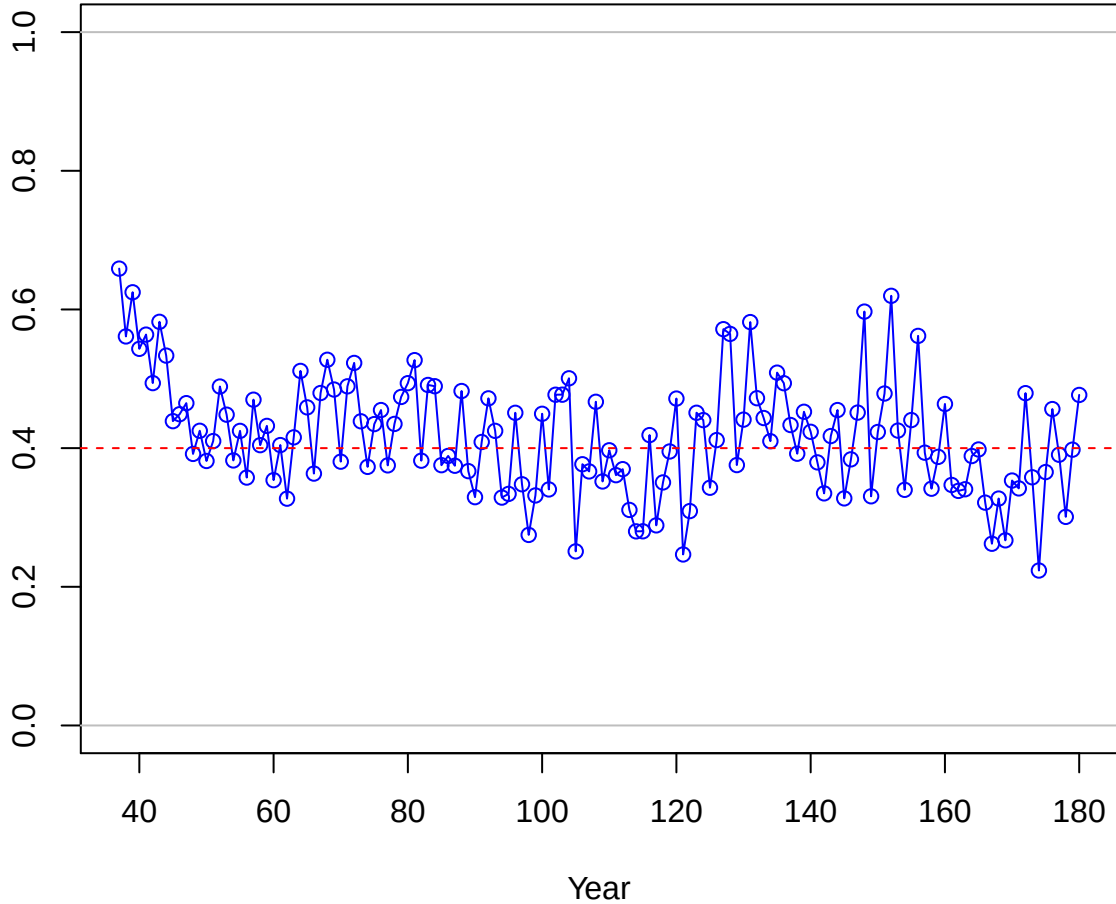
Observed and expected Landings (mt)



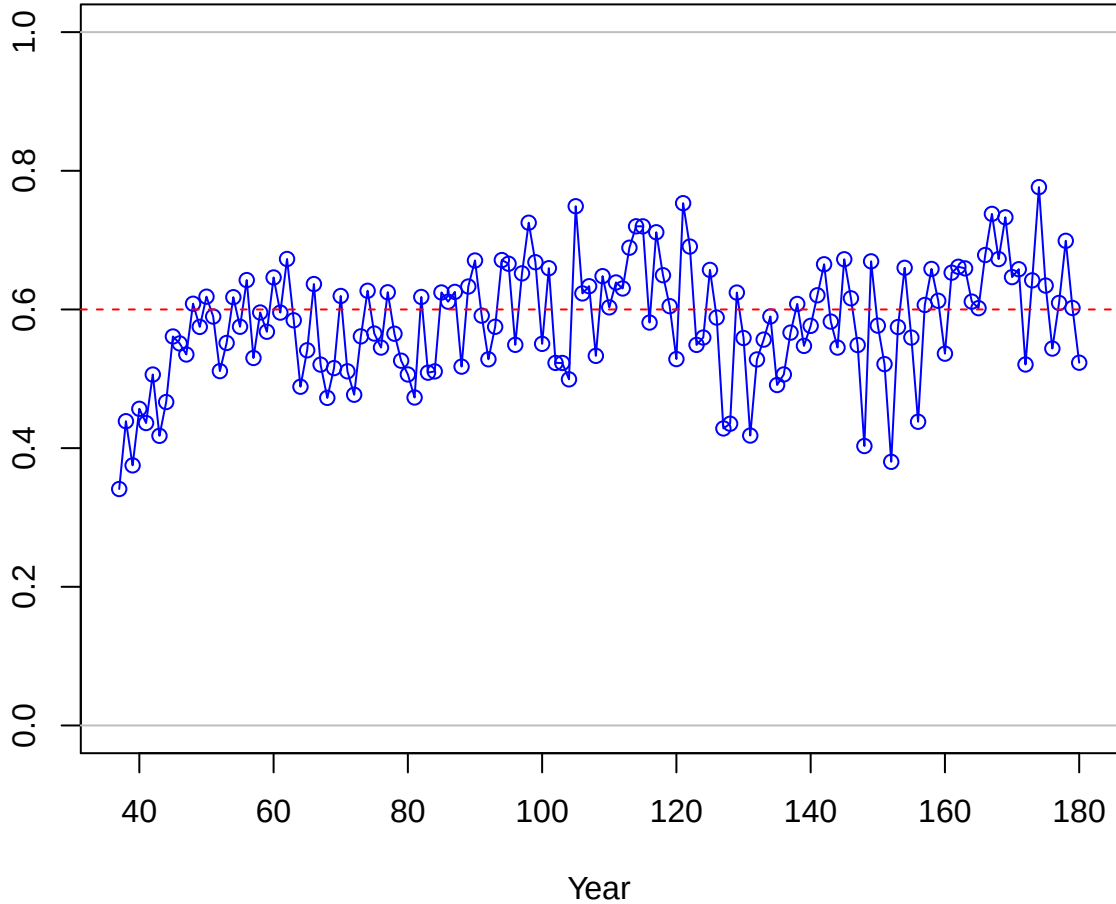
Continuous F

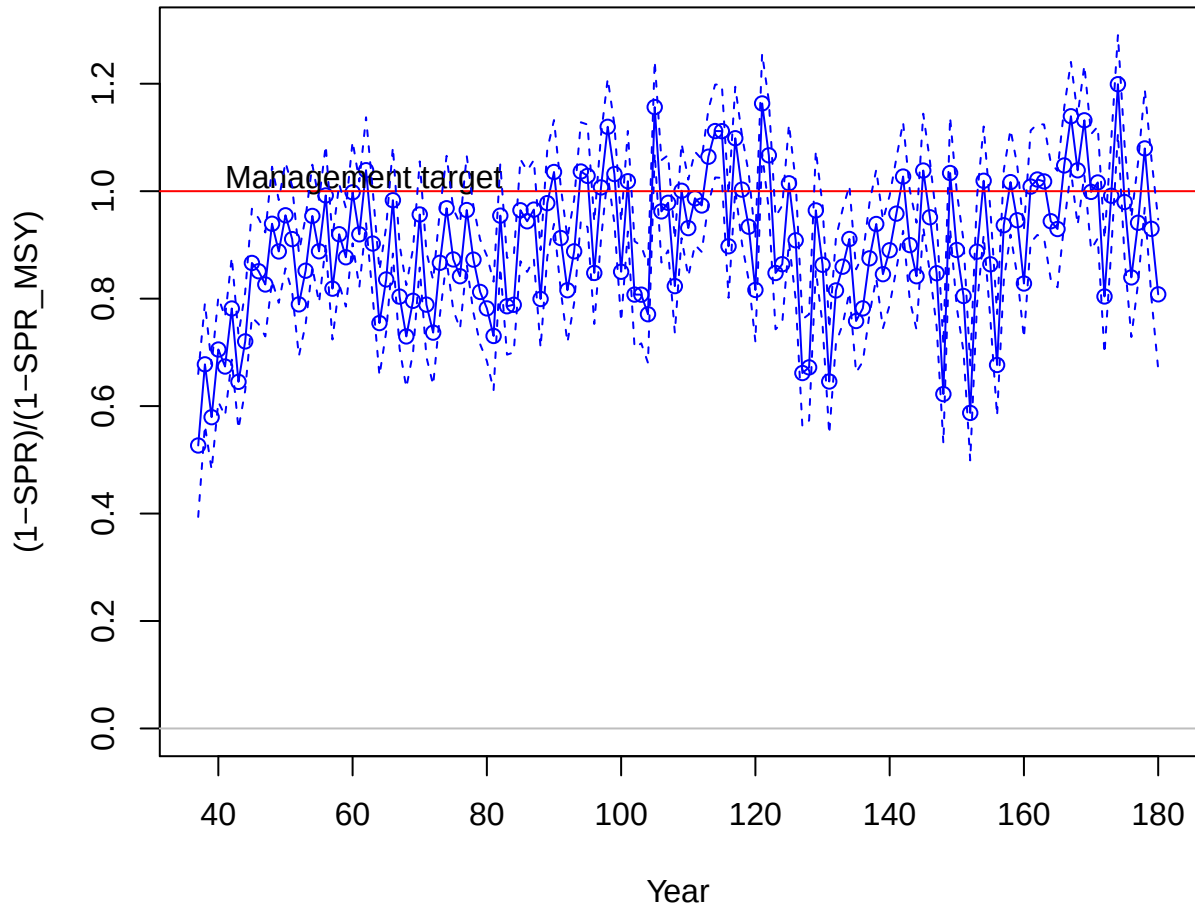


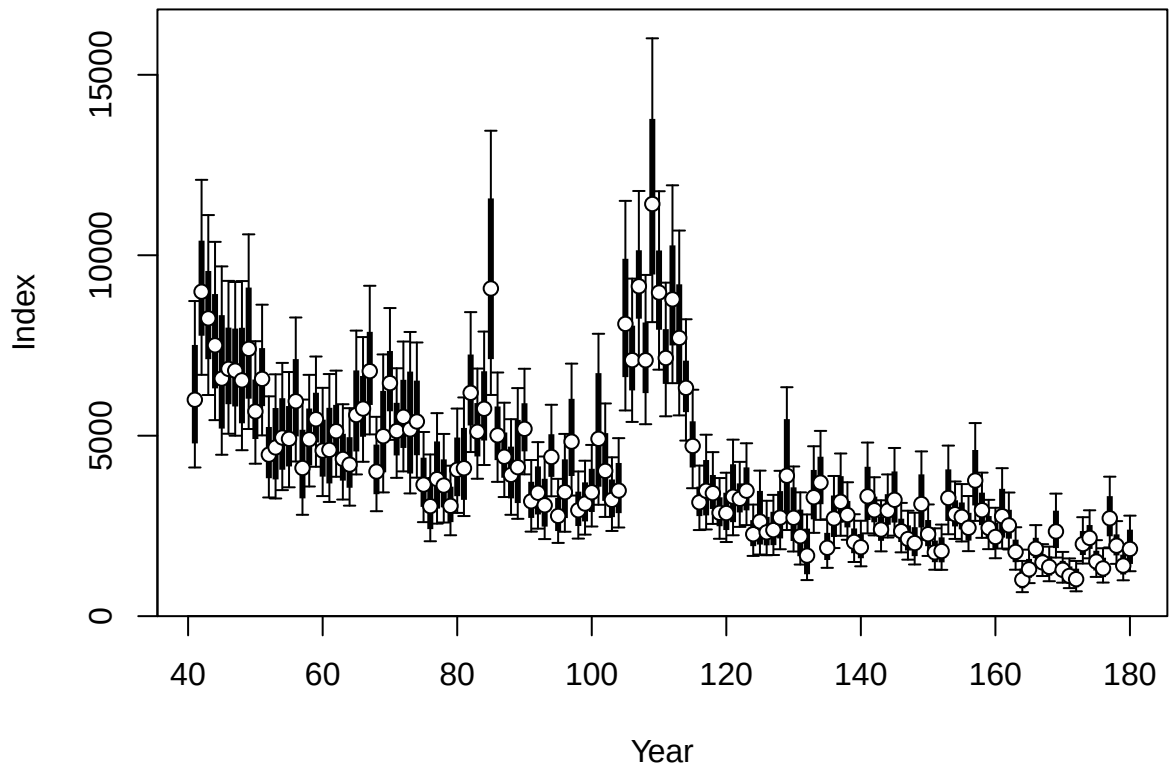
SPR

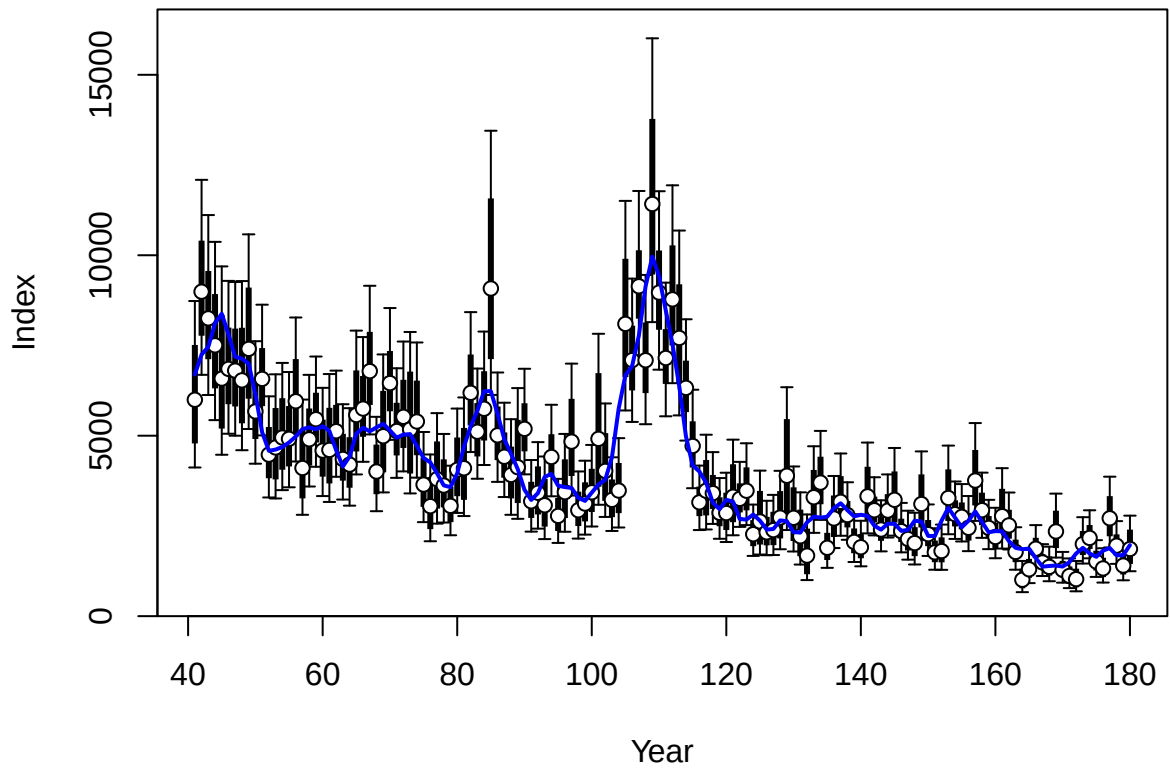


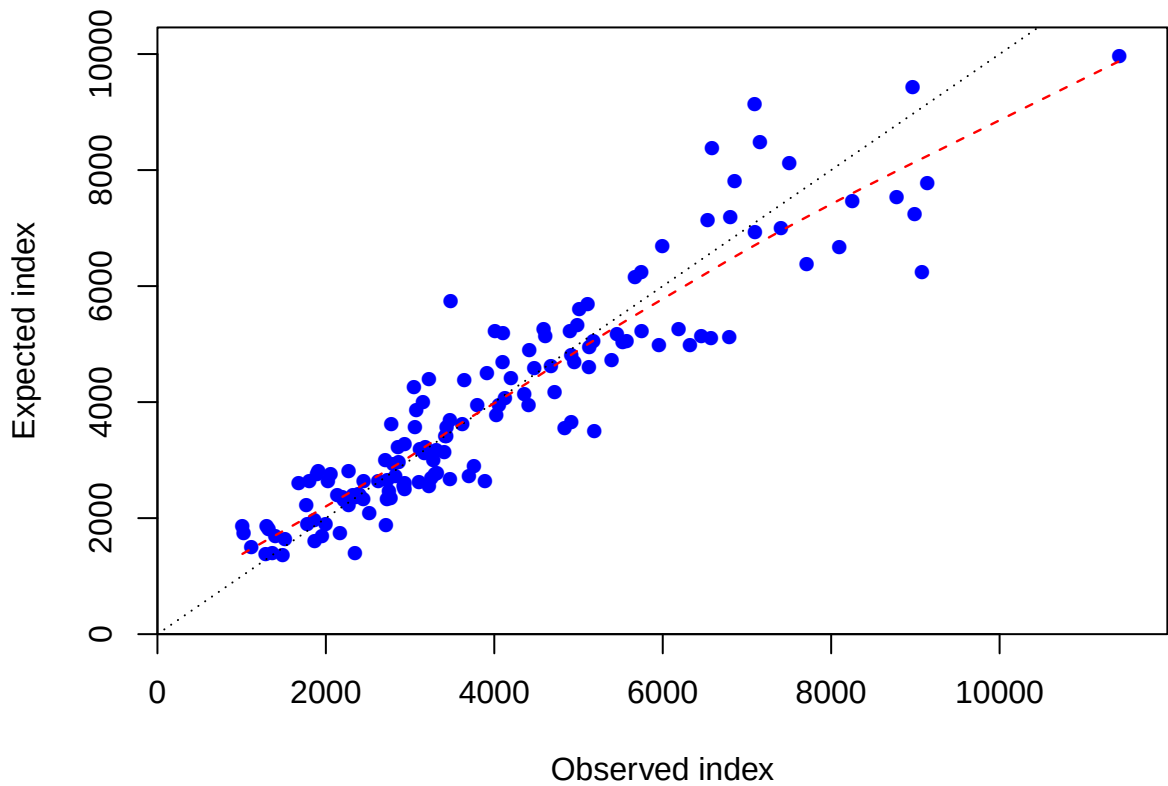
1-SPR





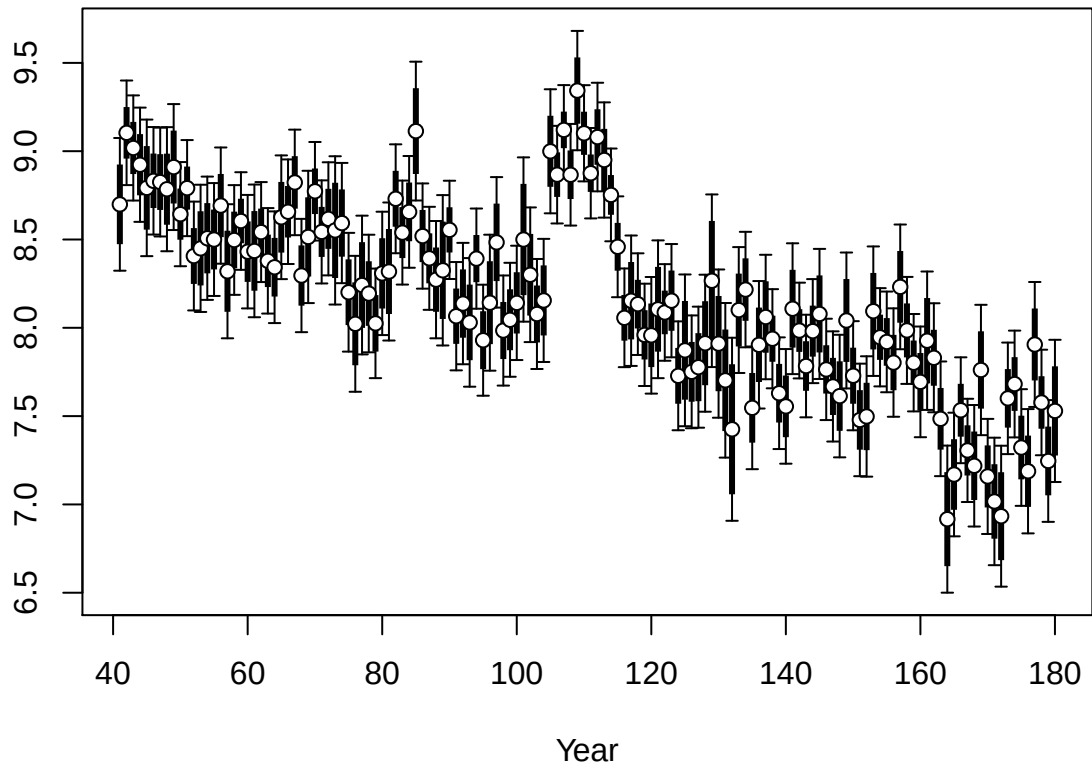




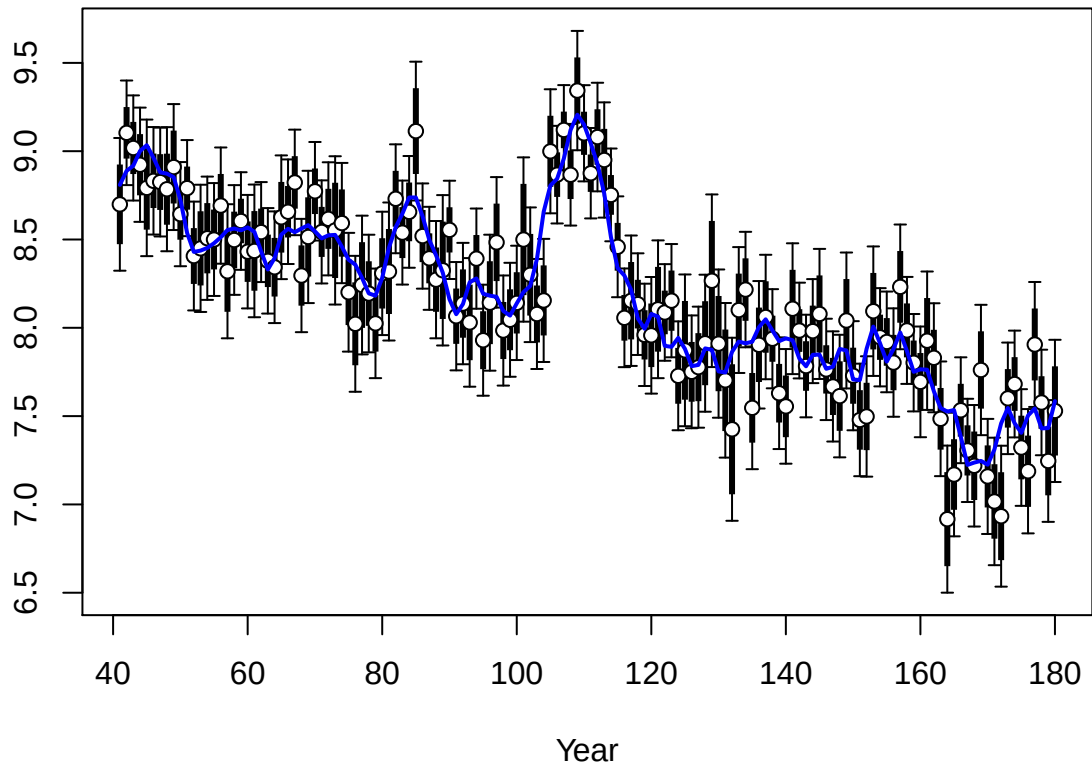


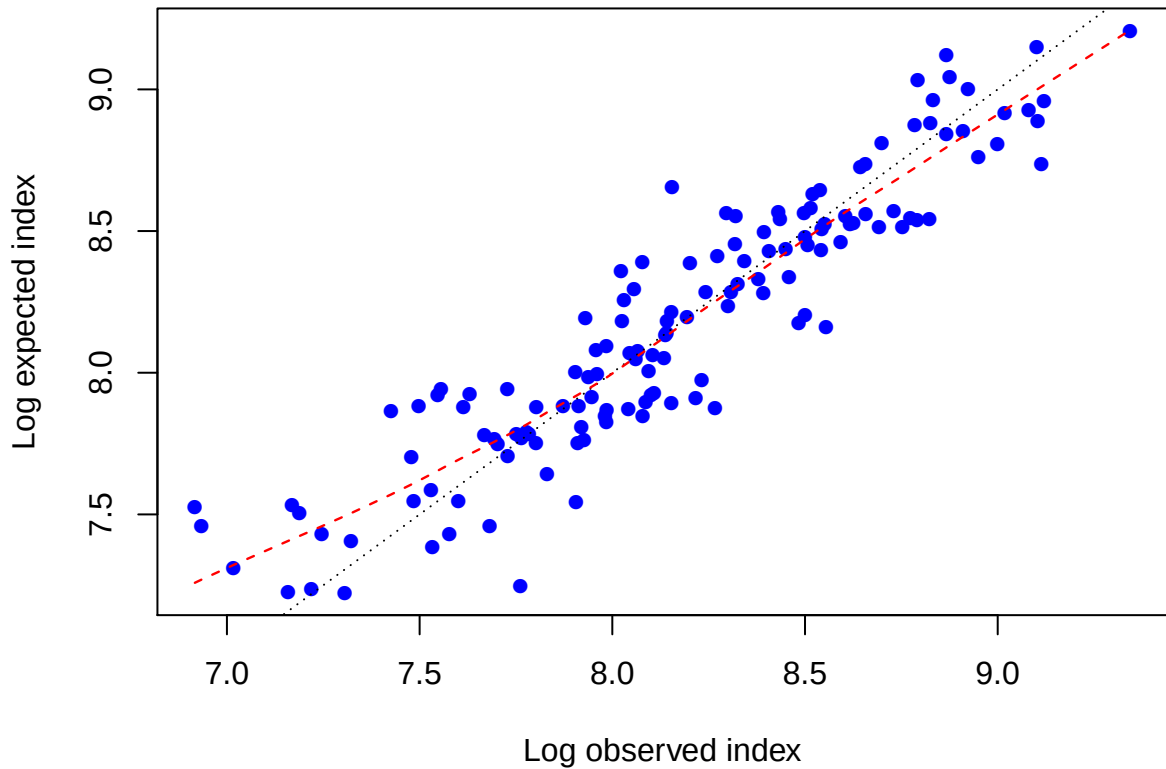


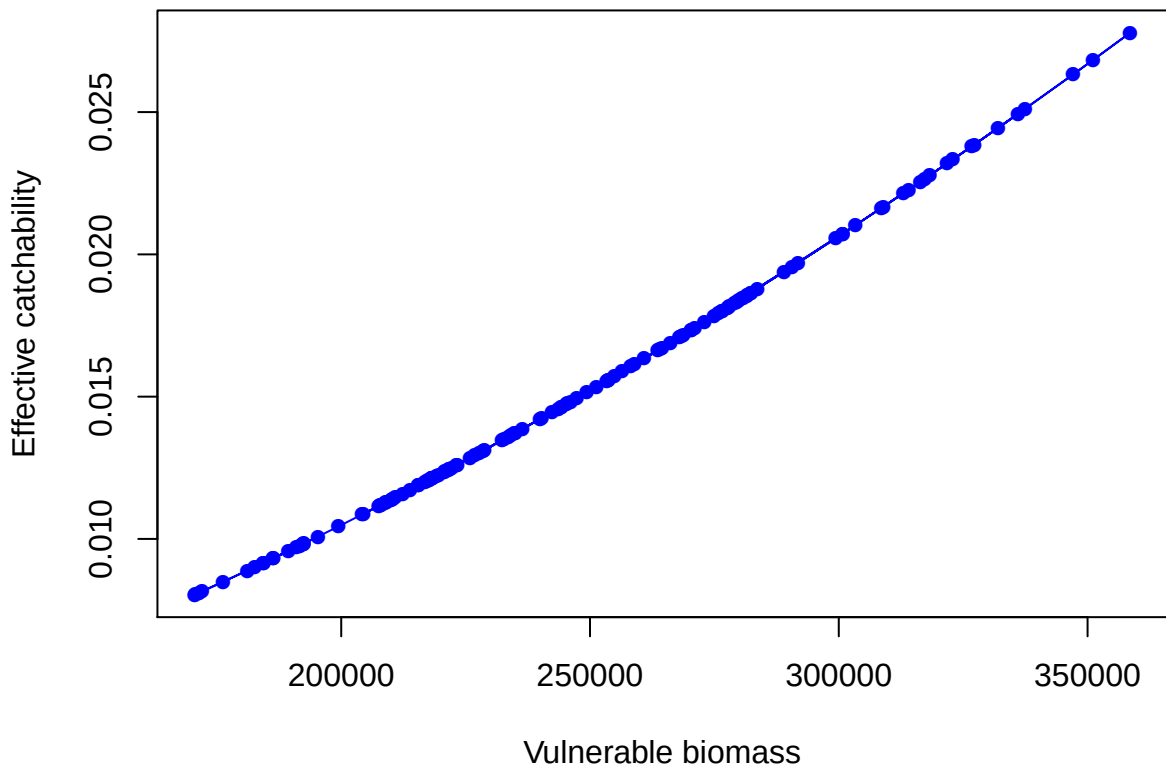
Log index

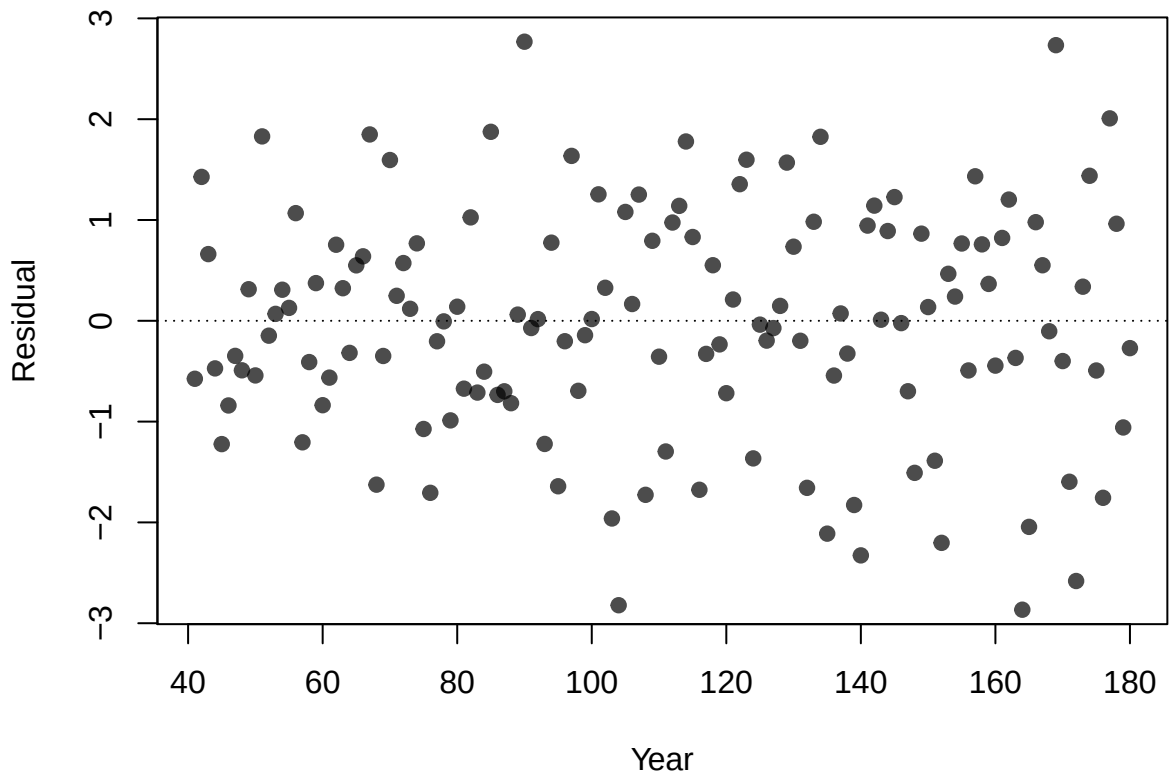


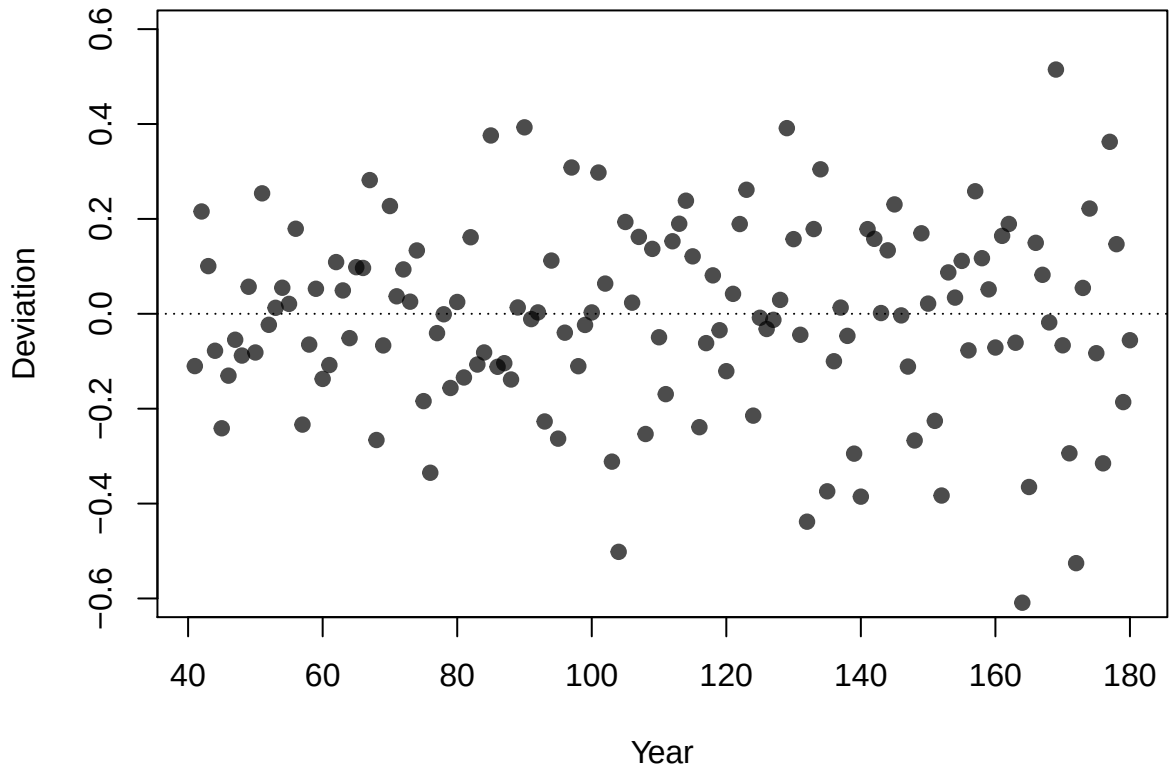
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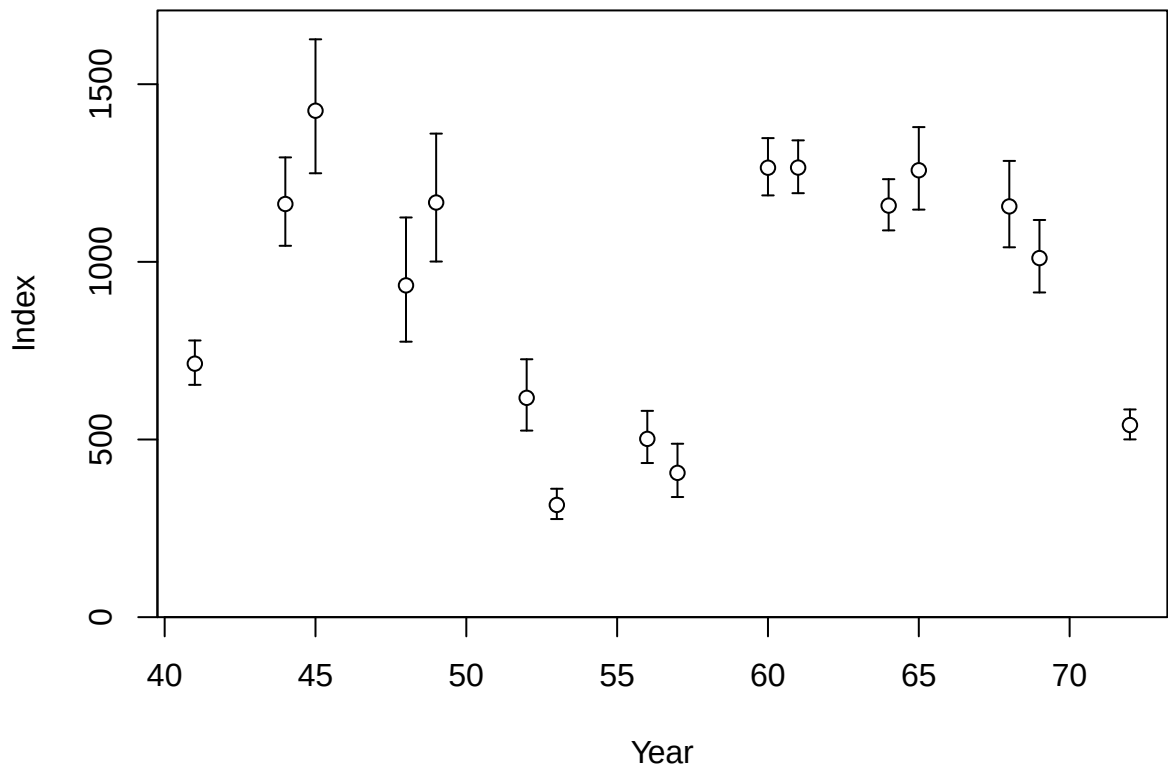


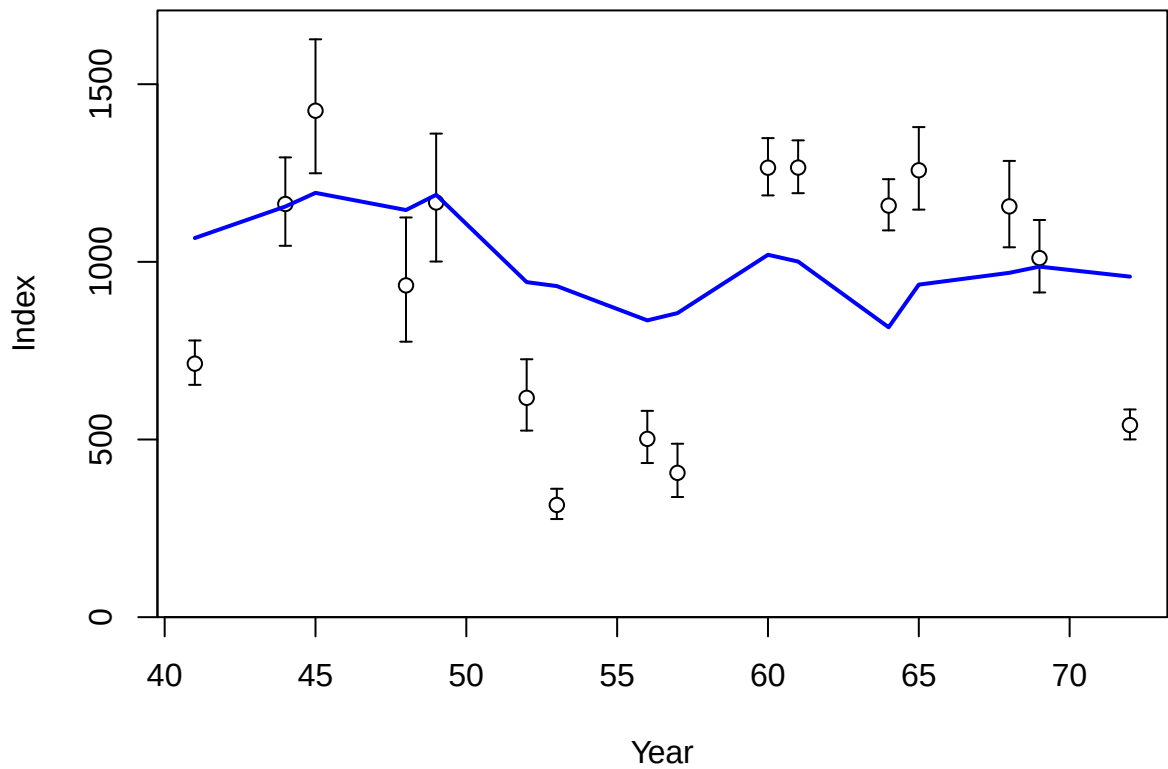




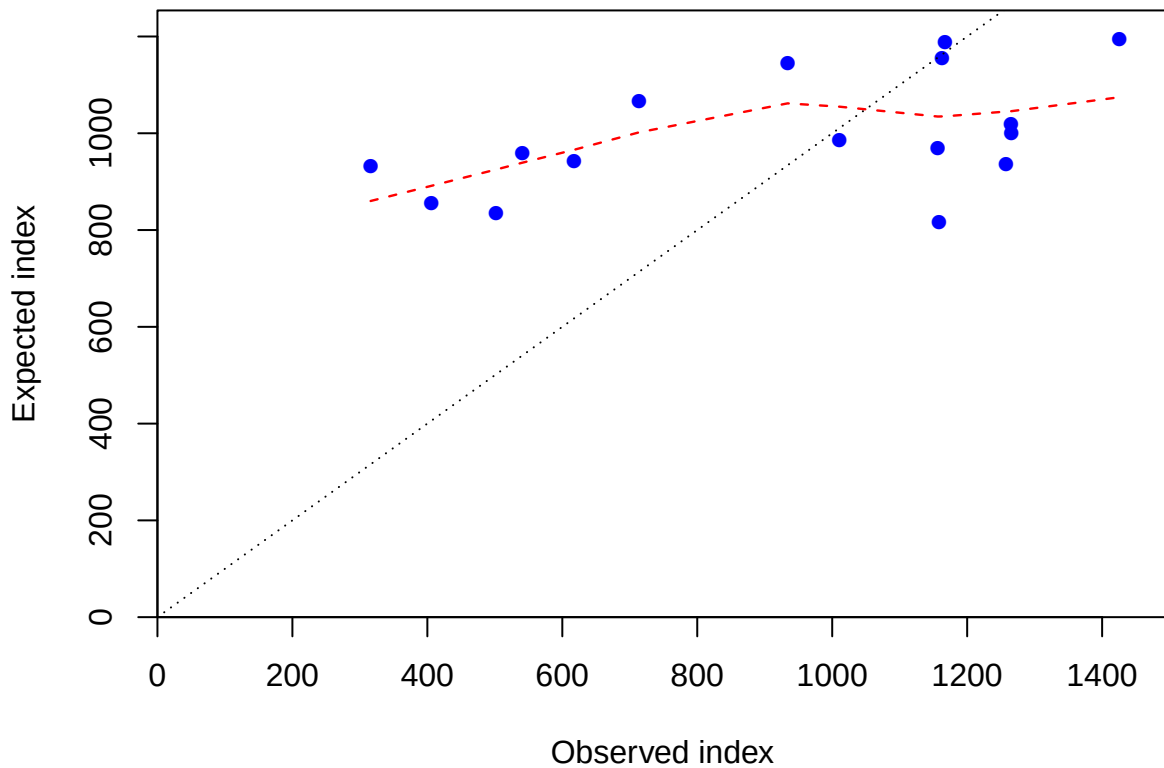


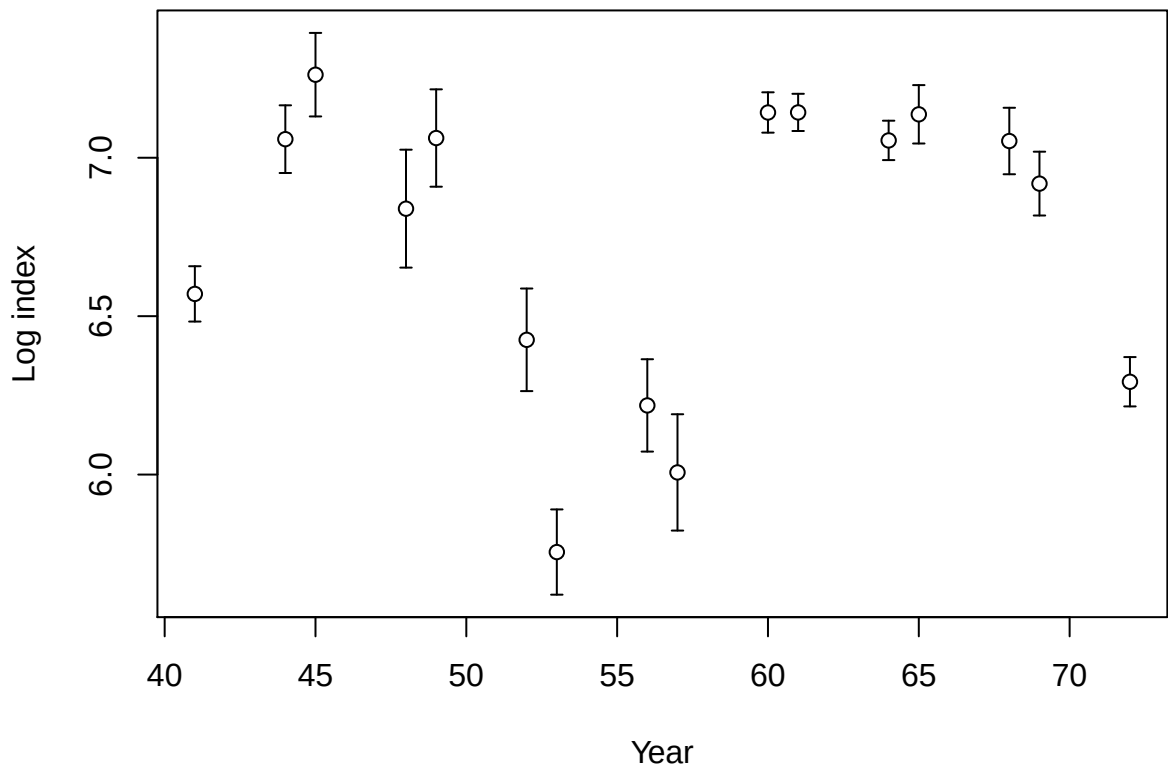




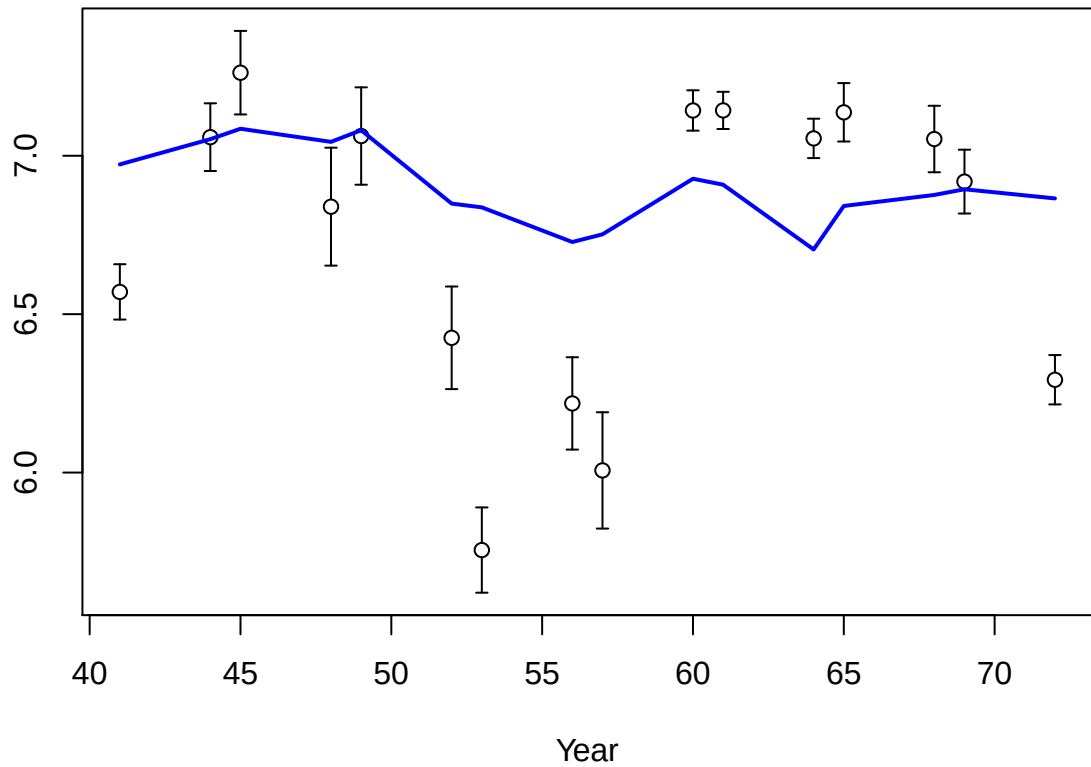


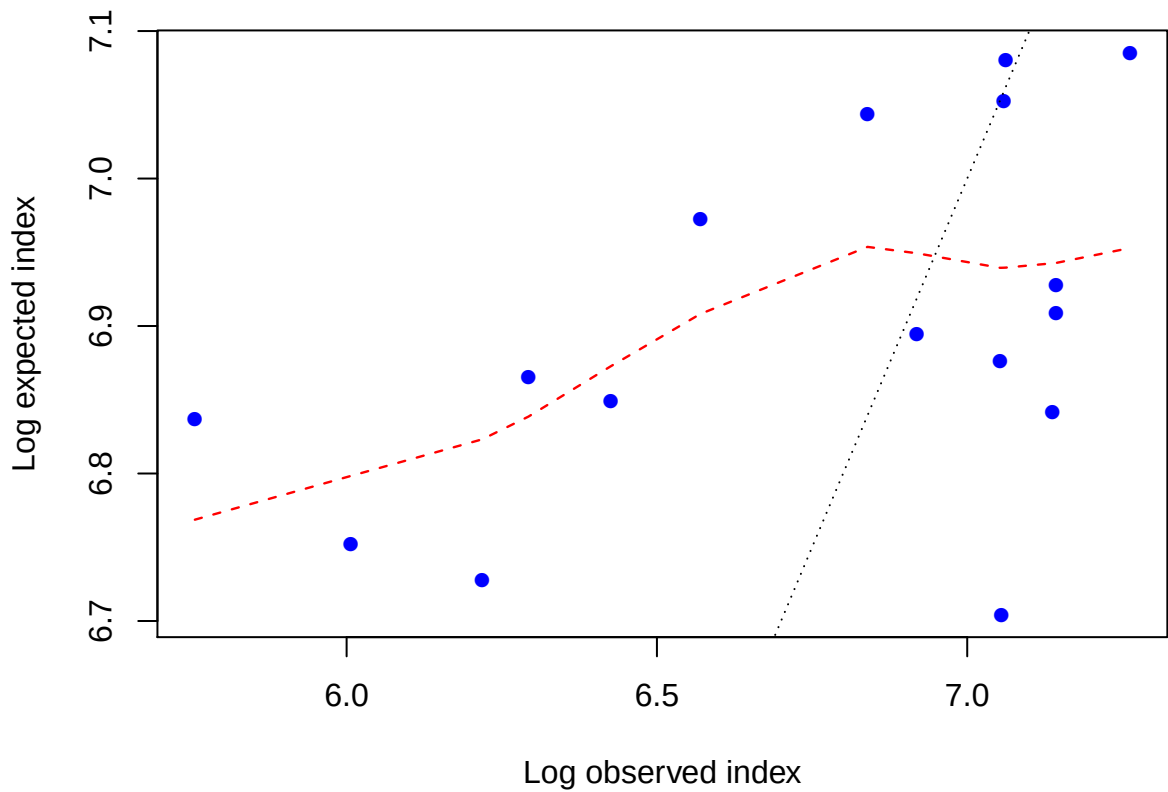


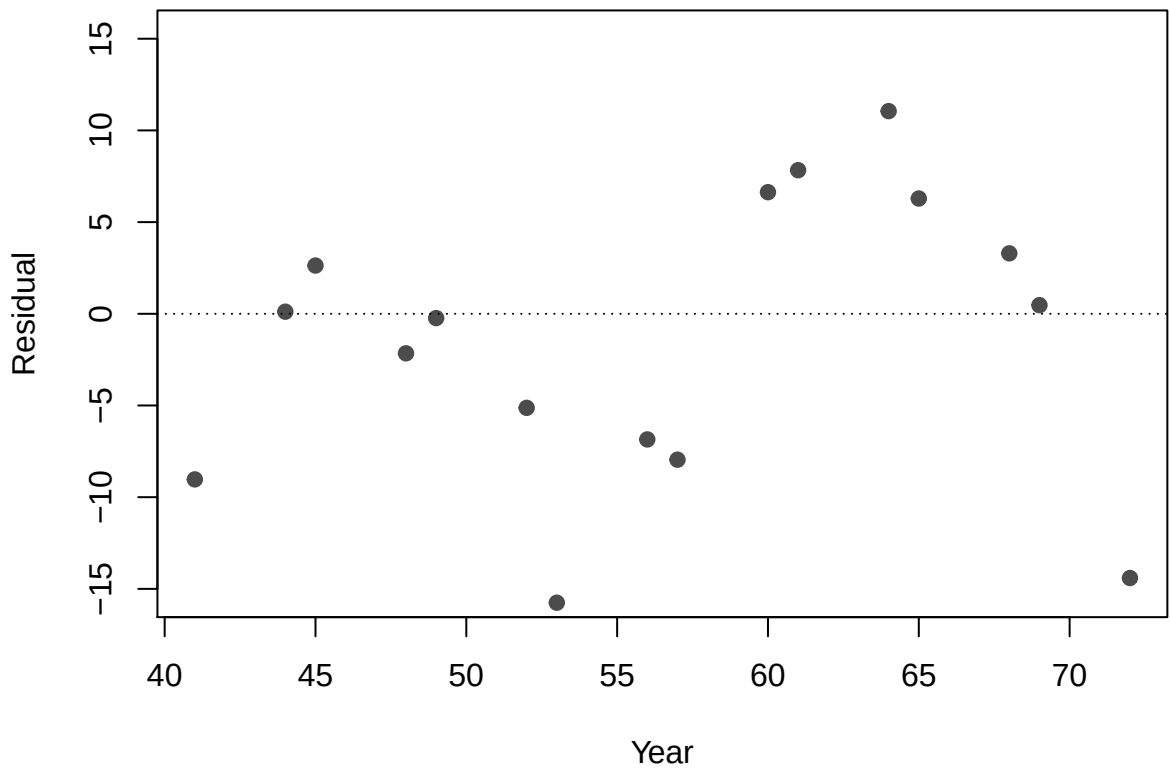


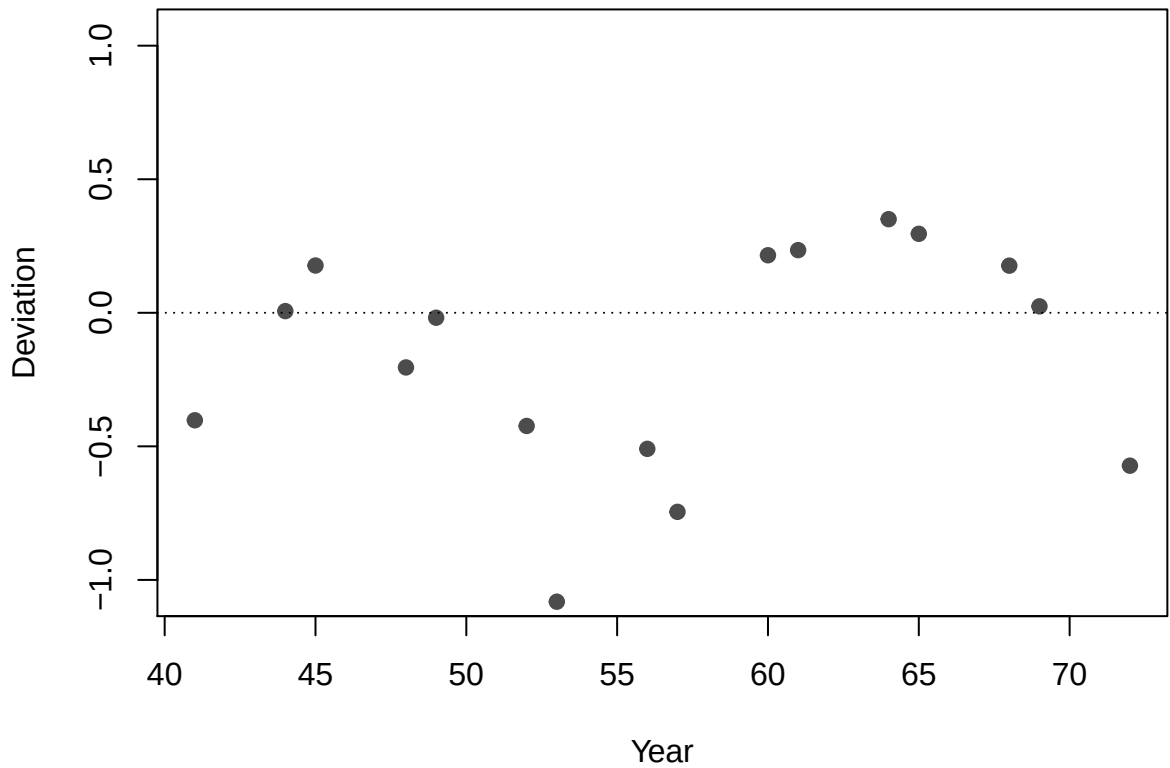


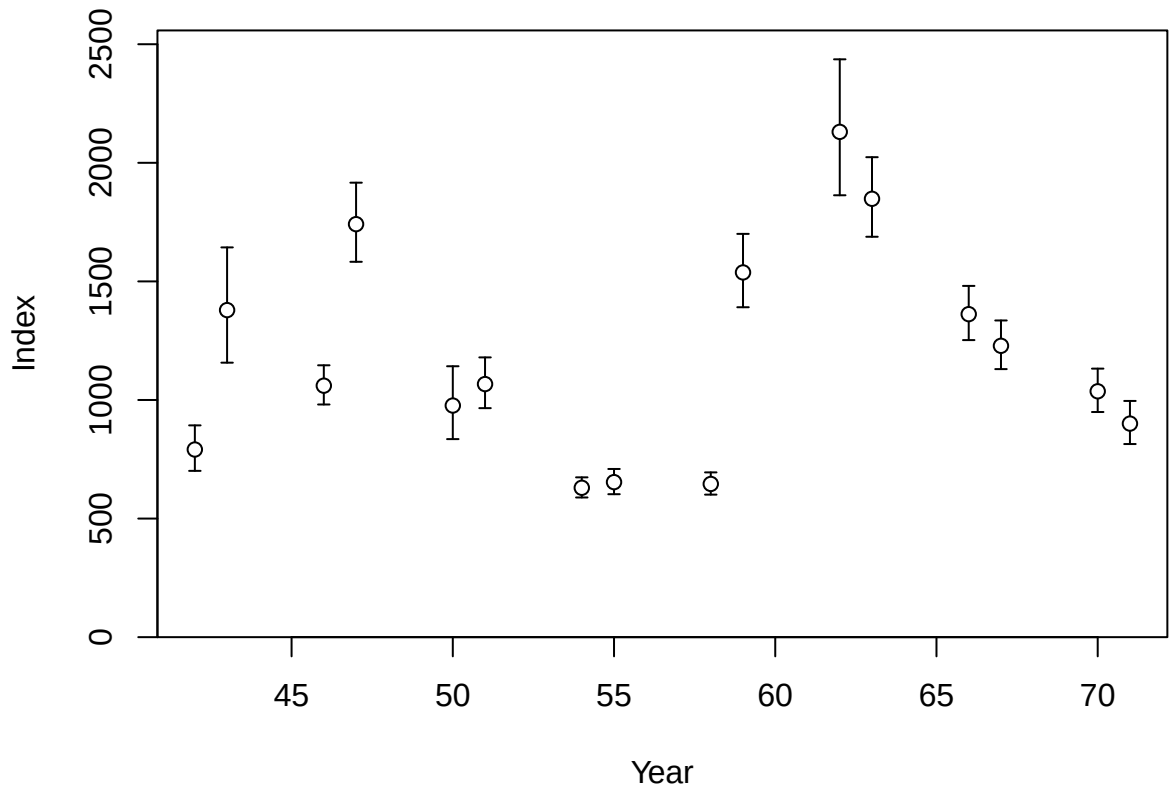
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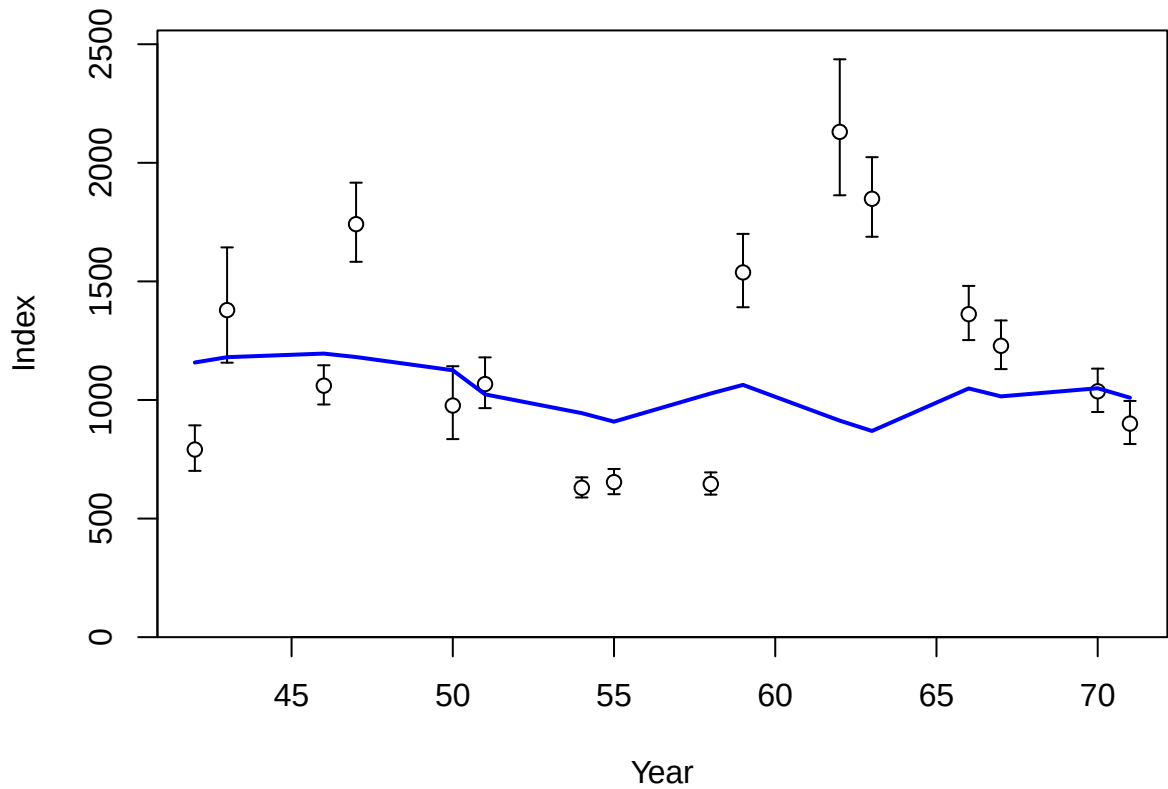




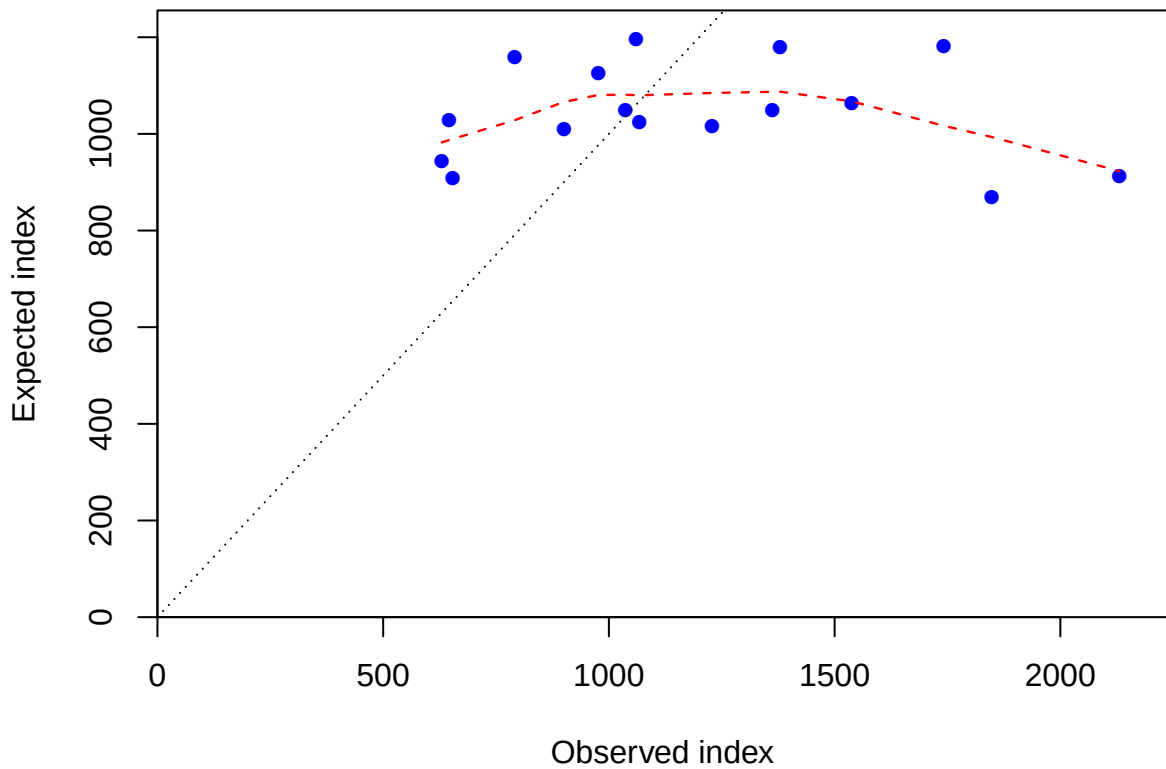


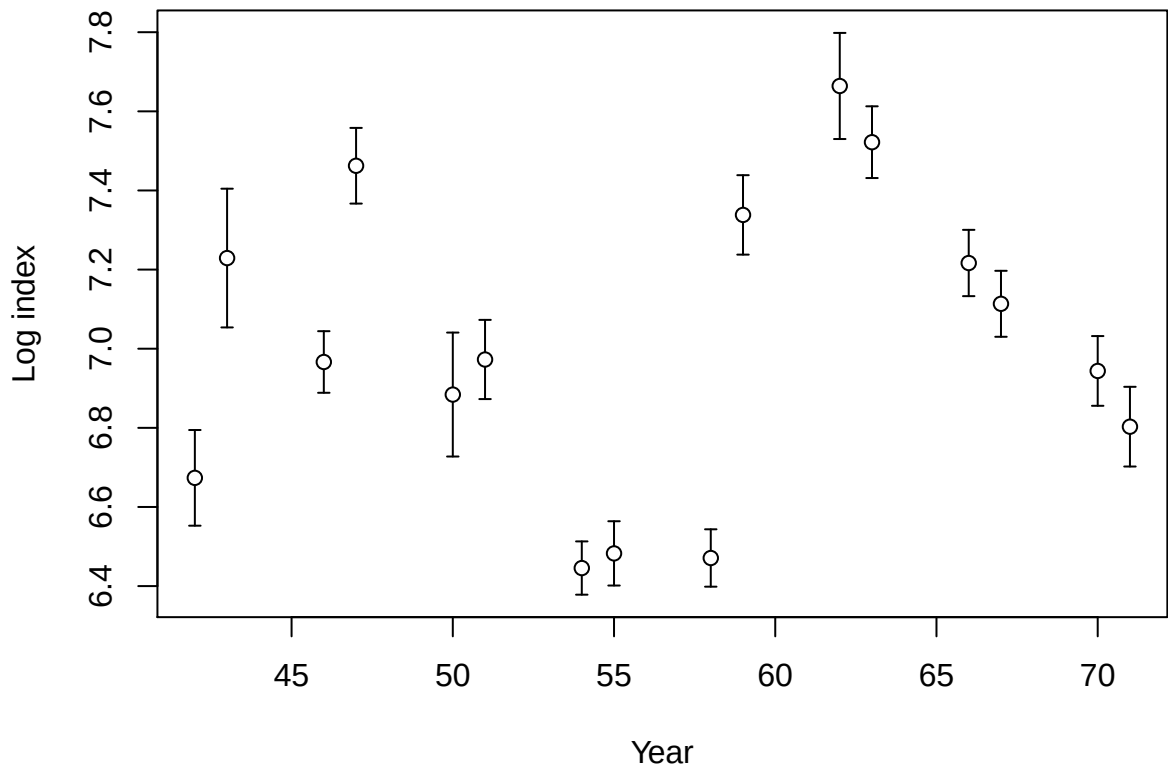


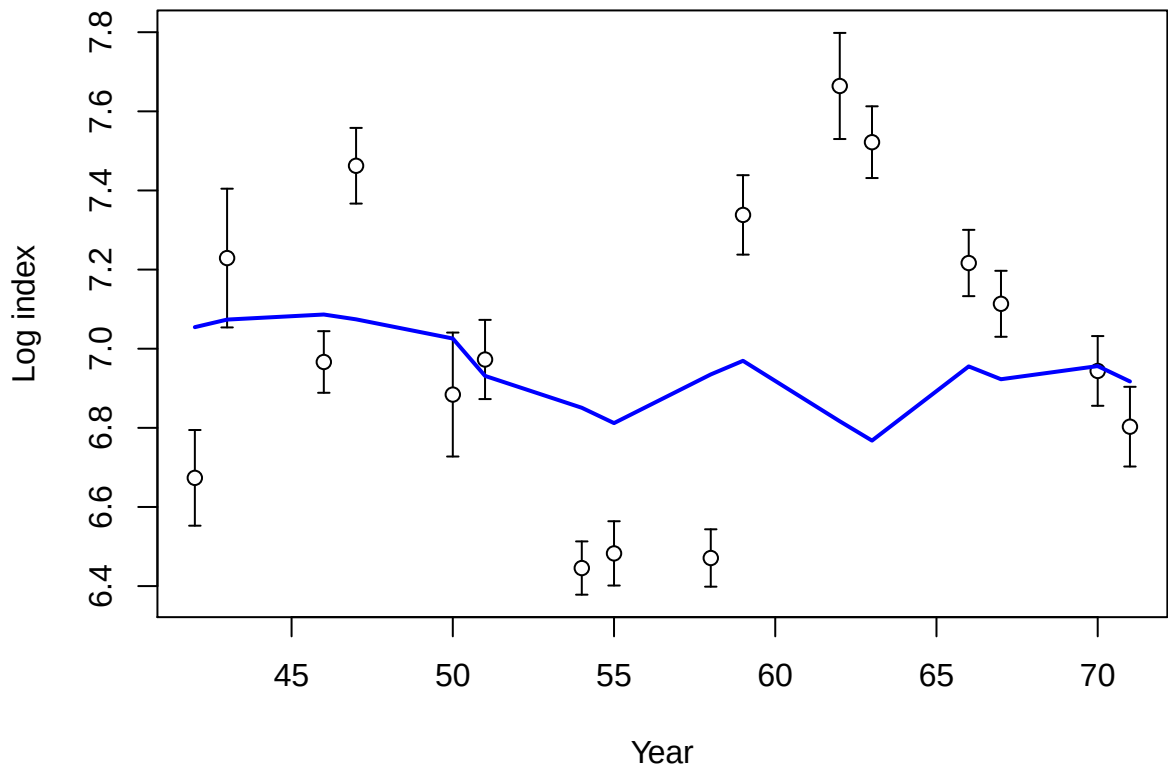


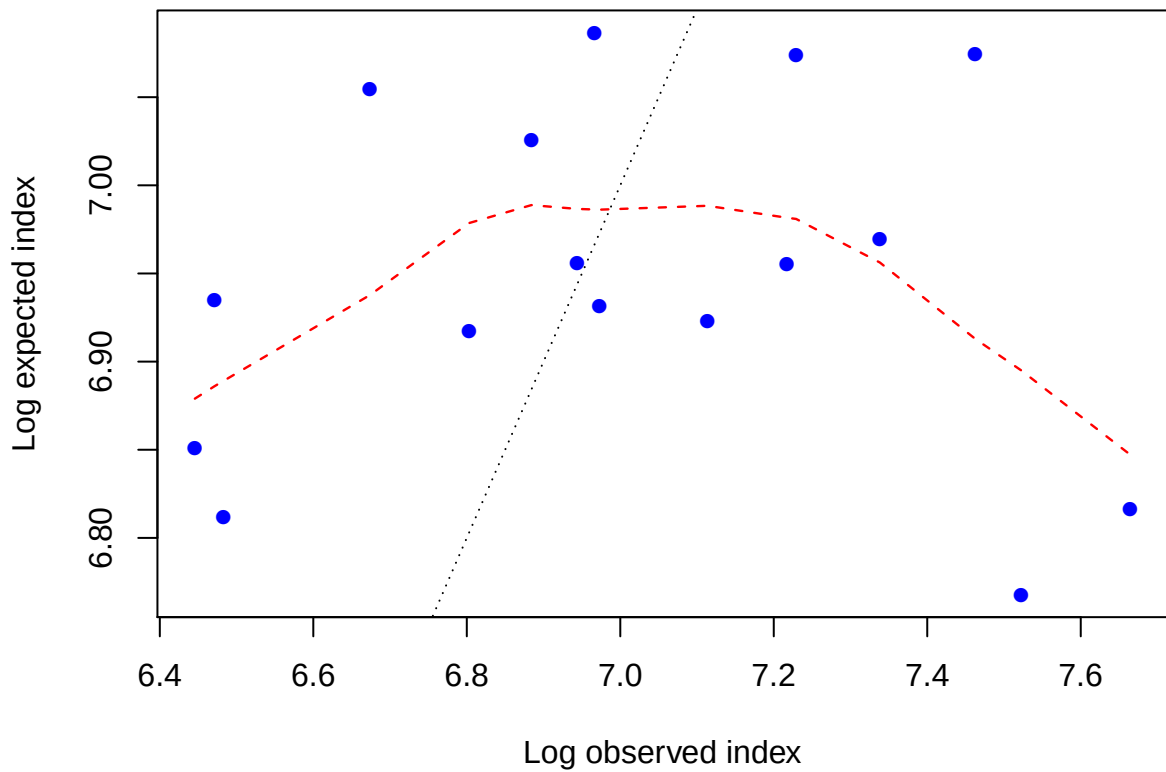


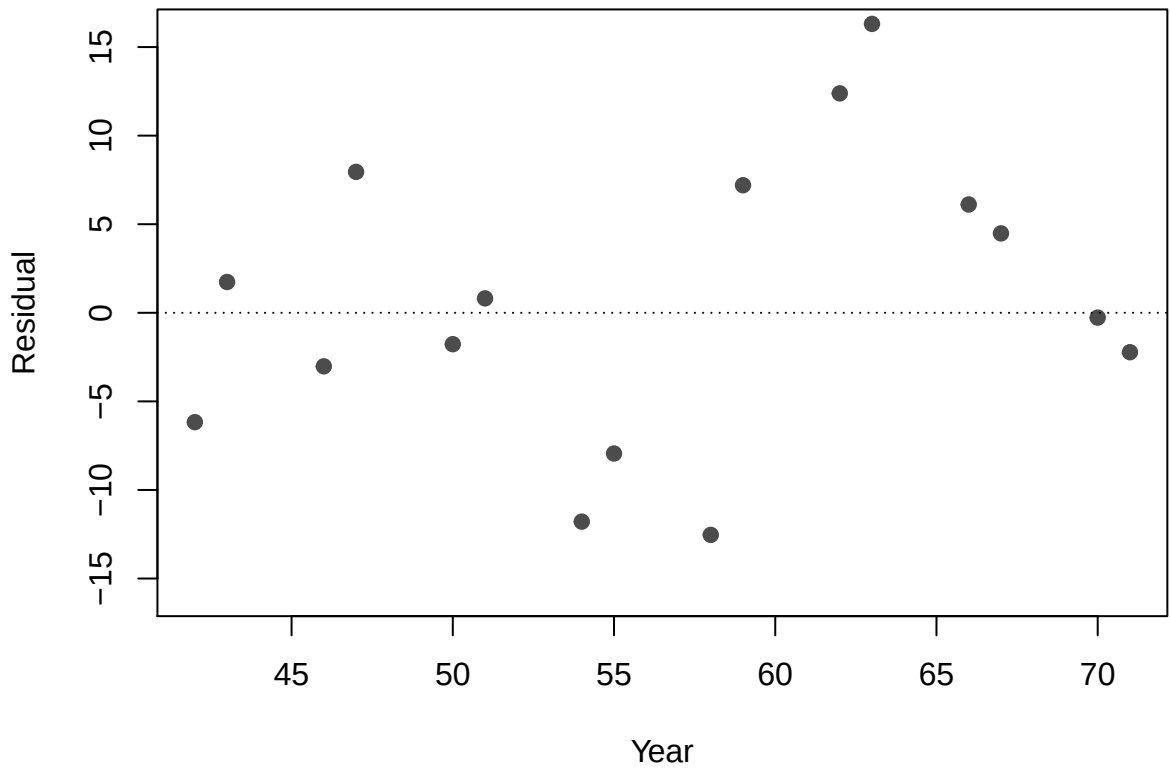


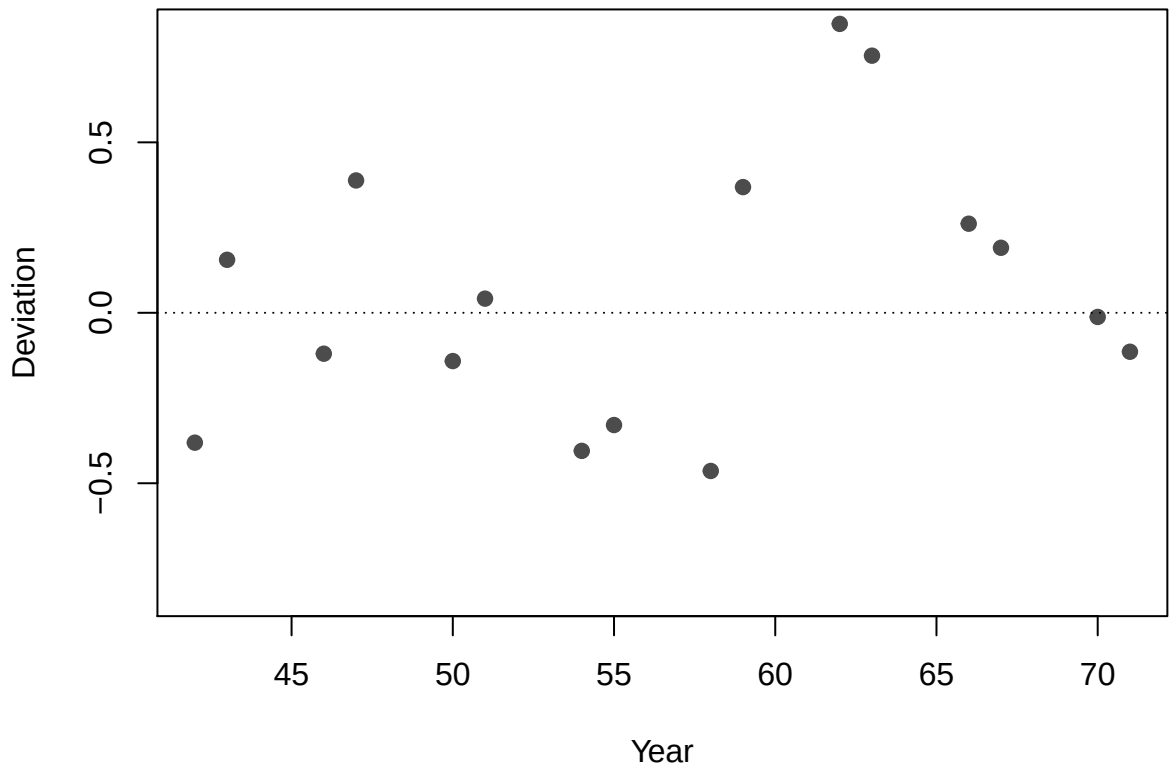


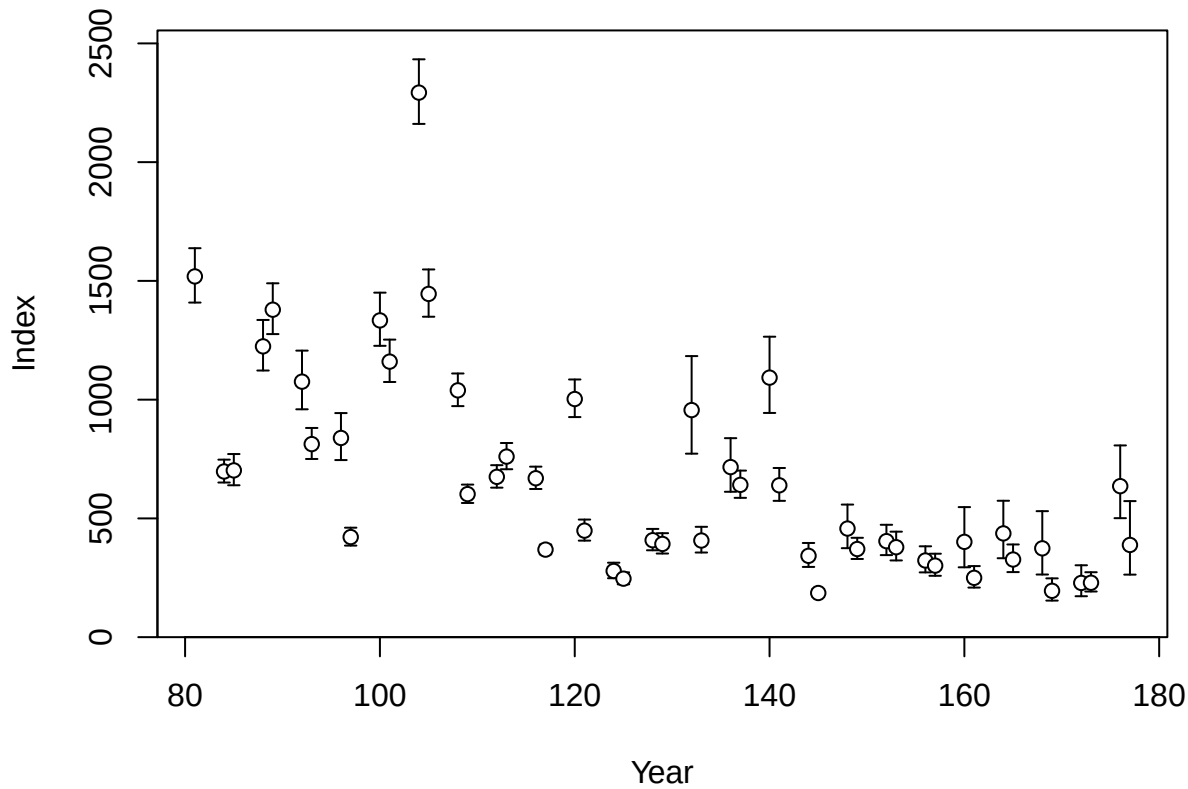


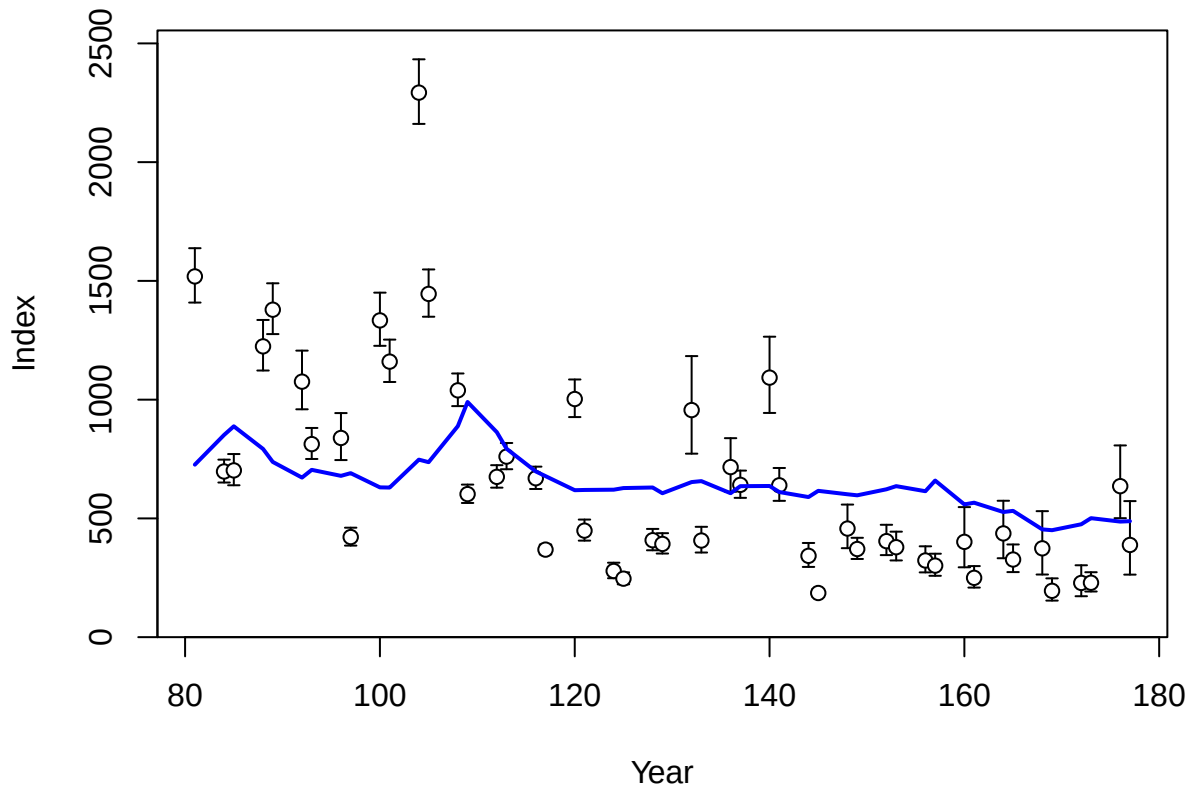




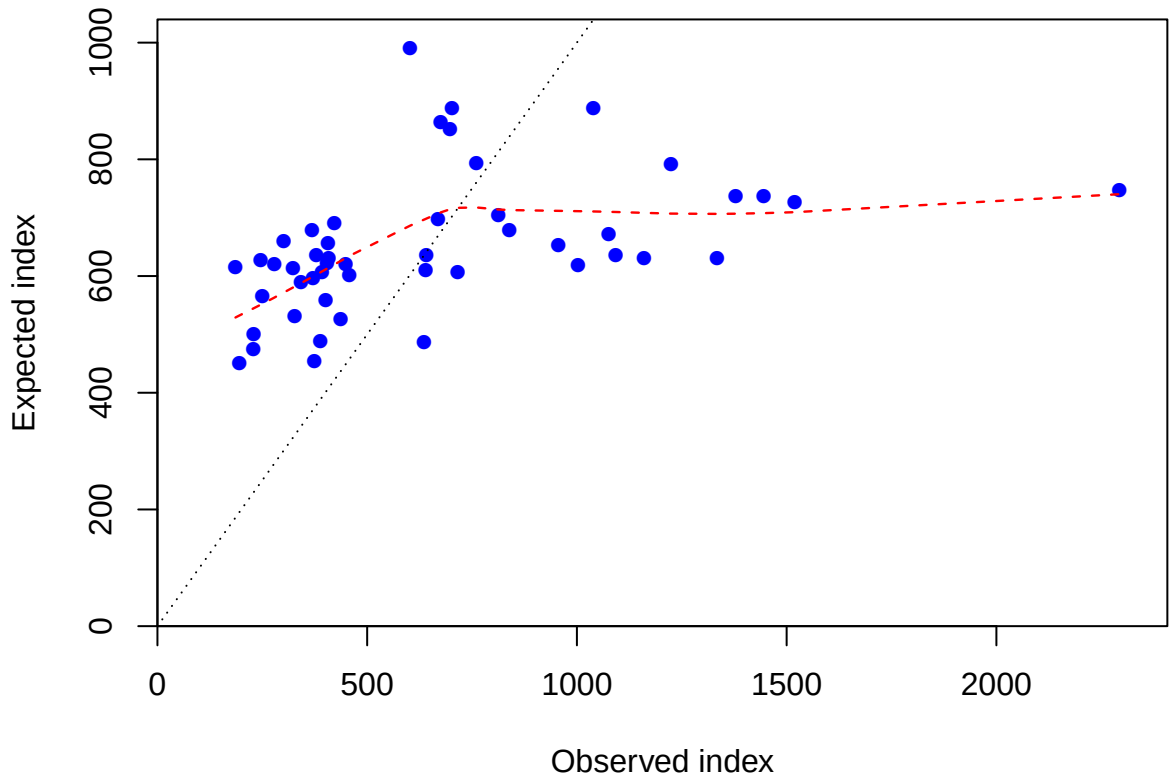


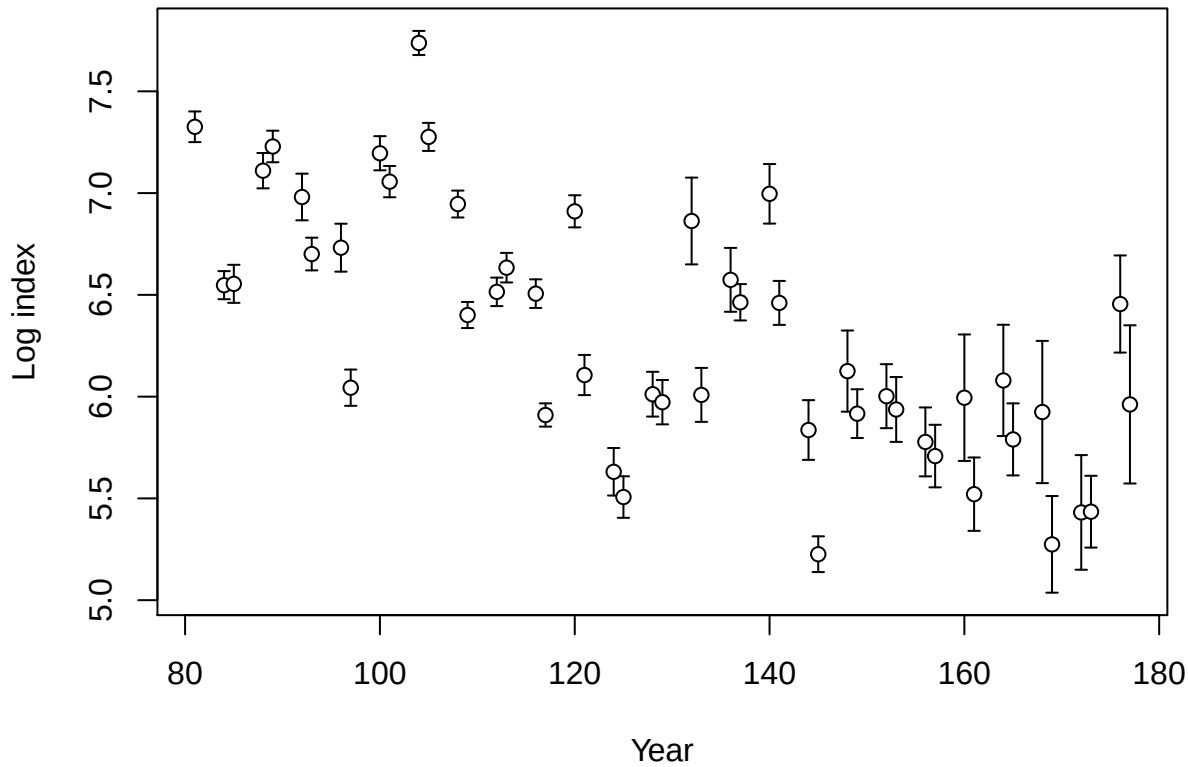


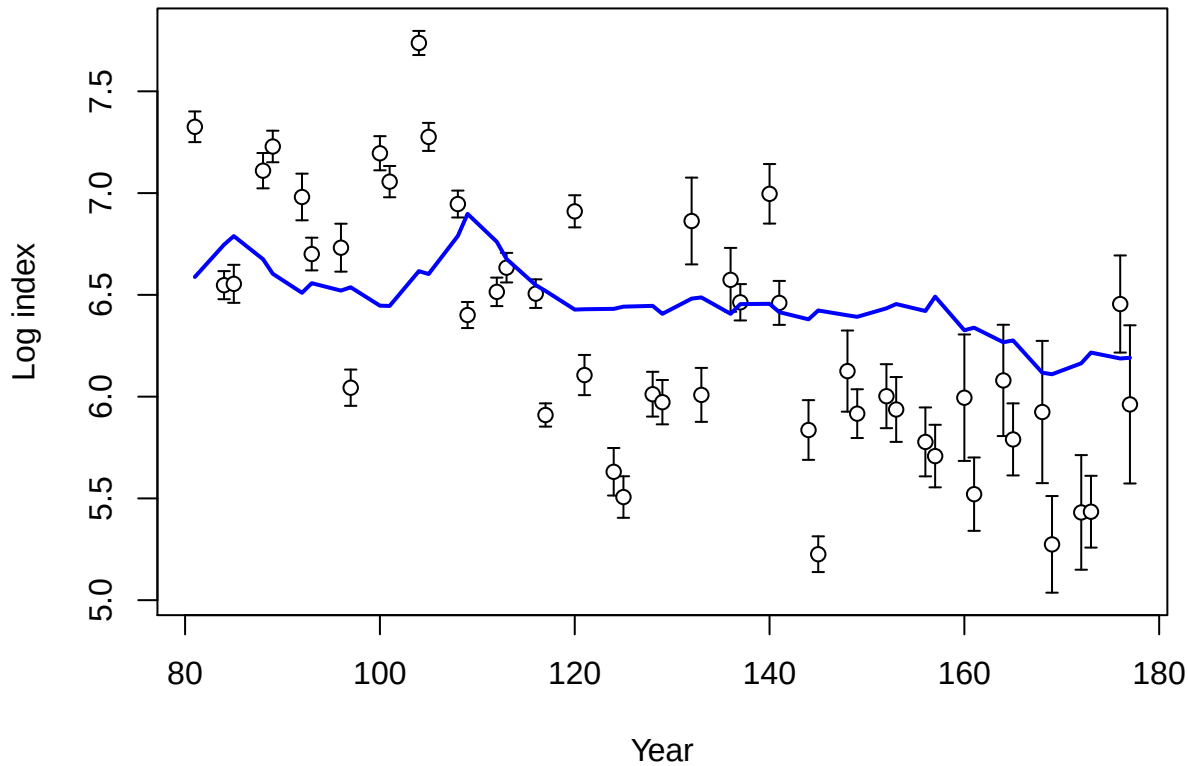


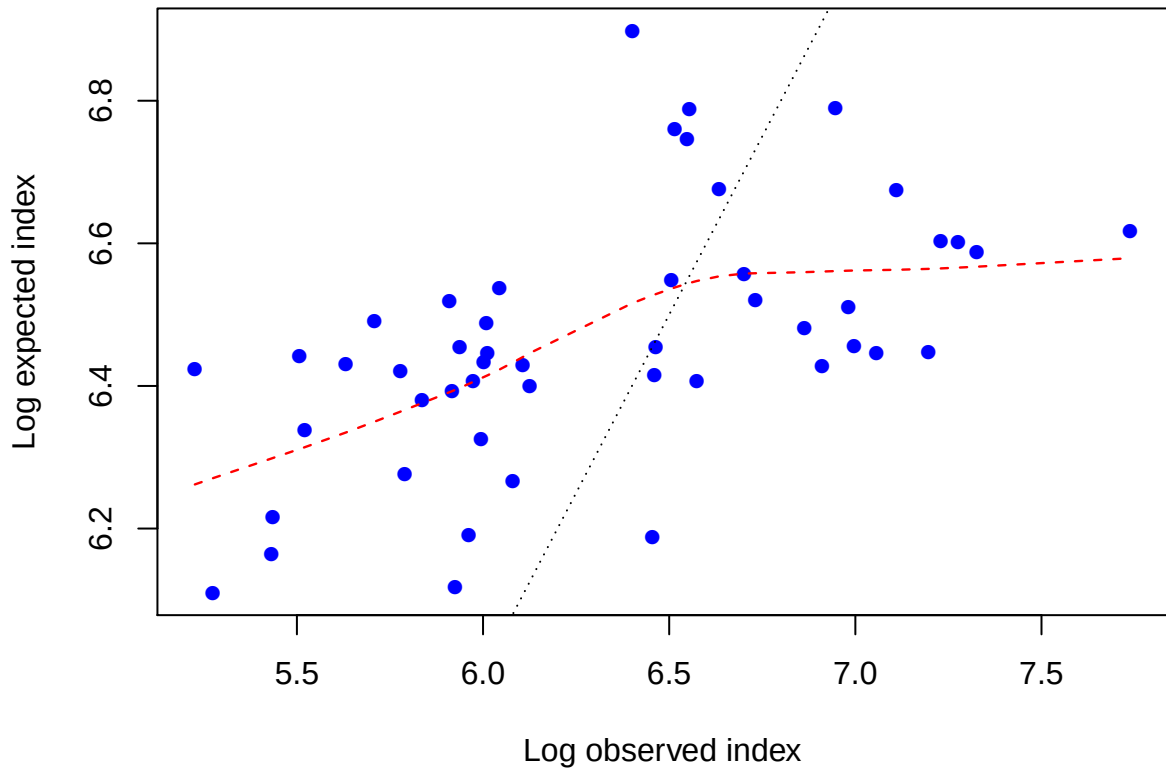


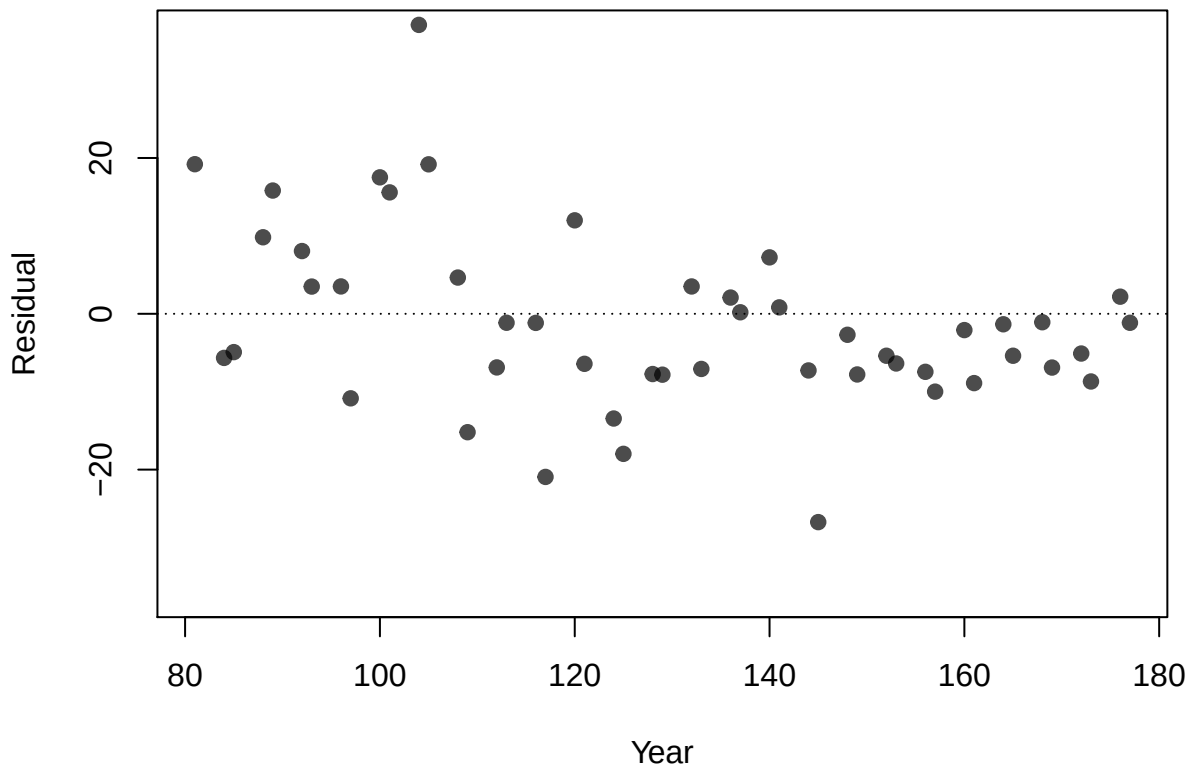


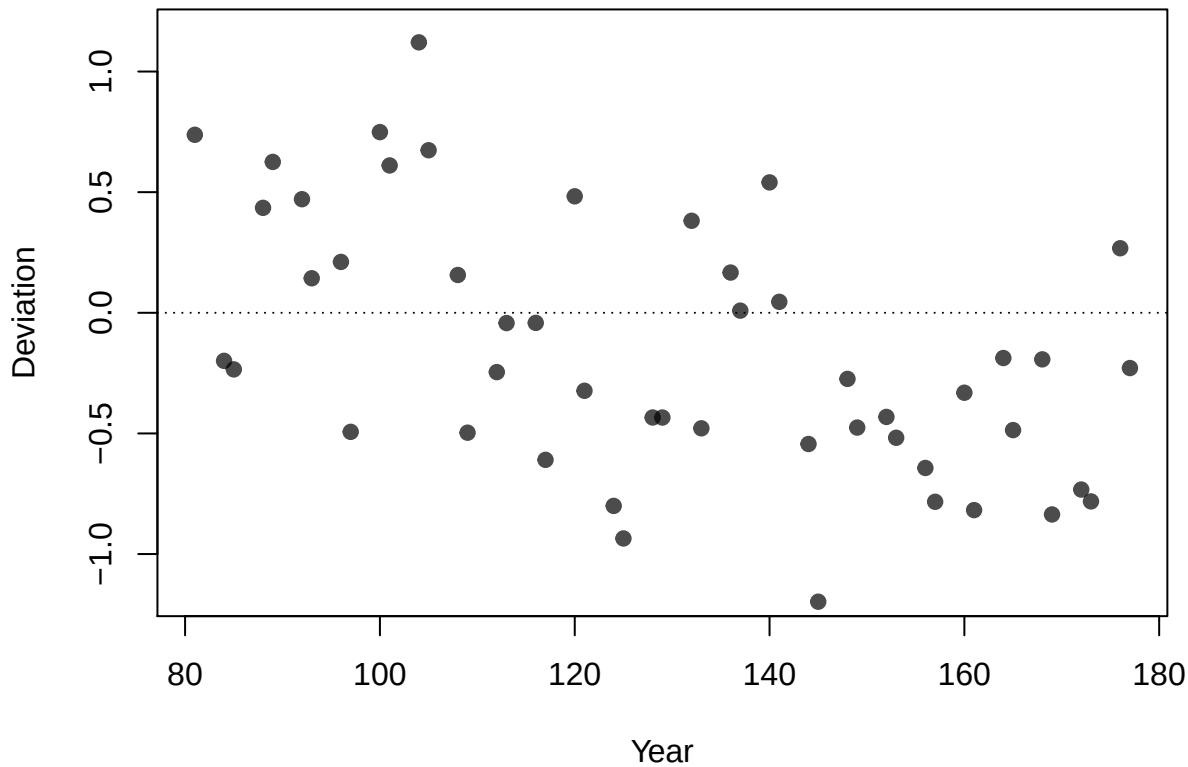


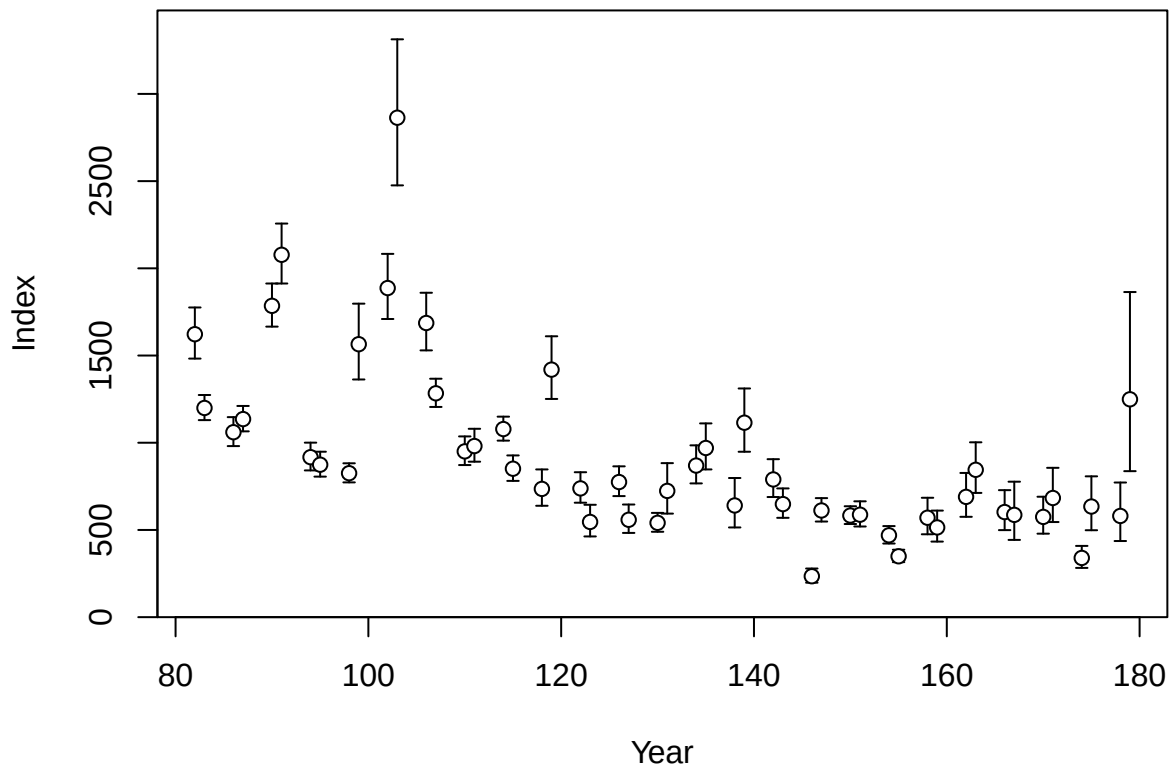


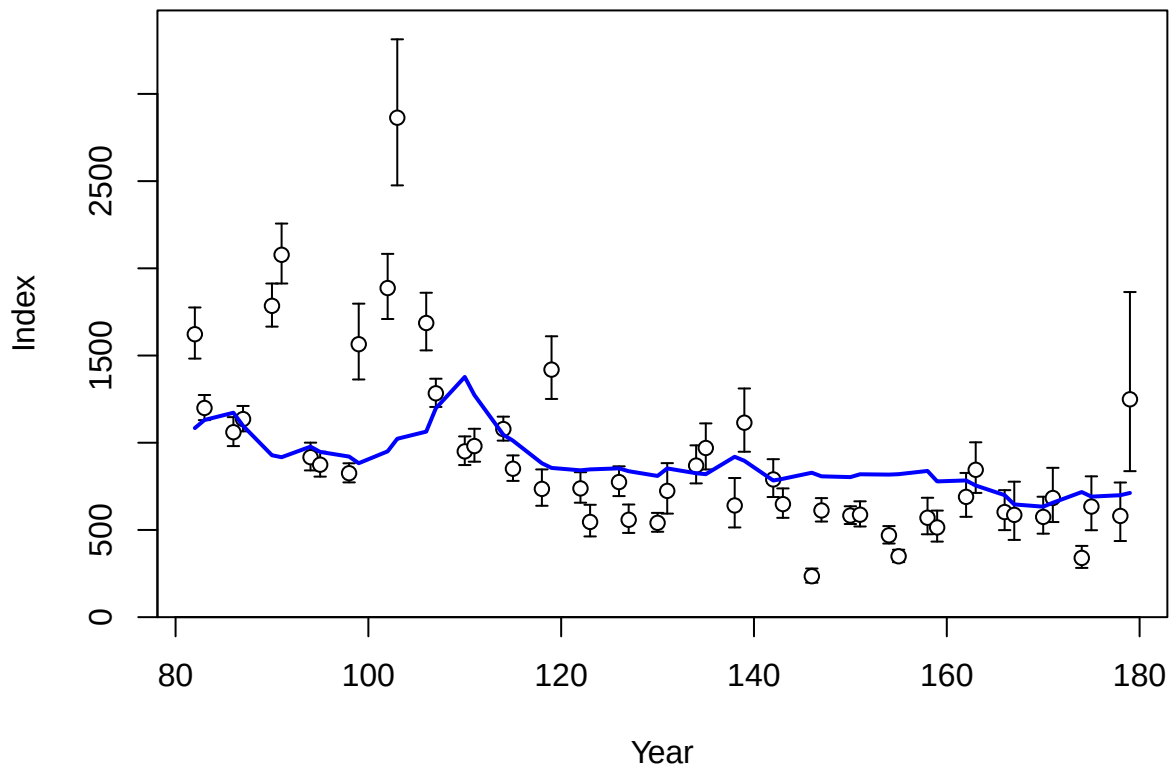




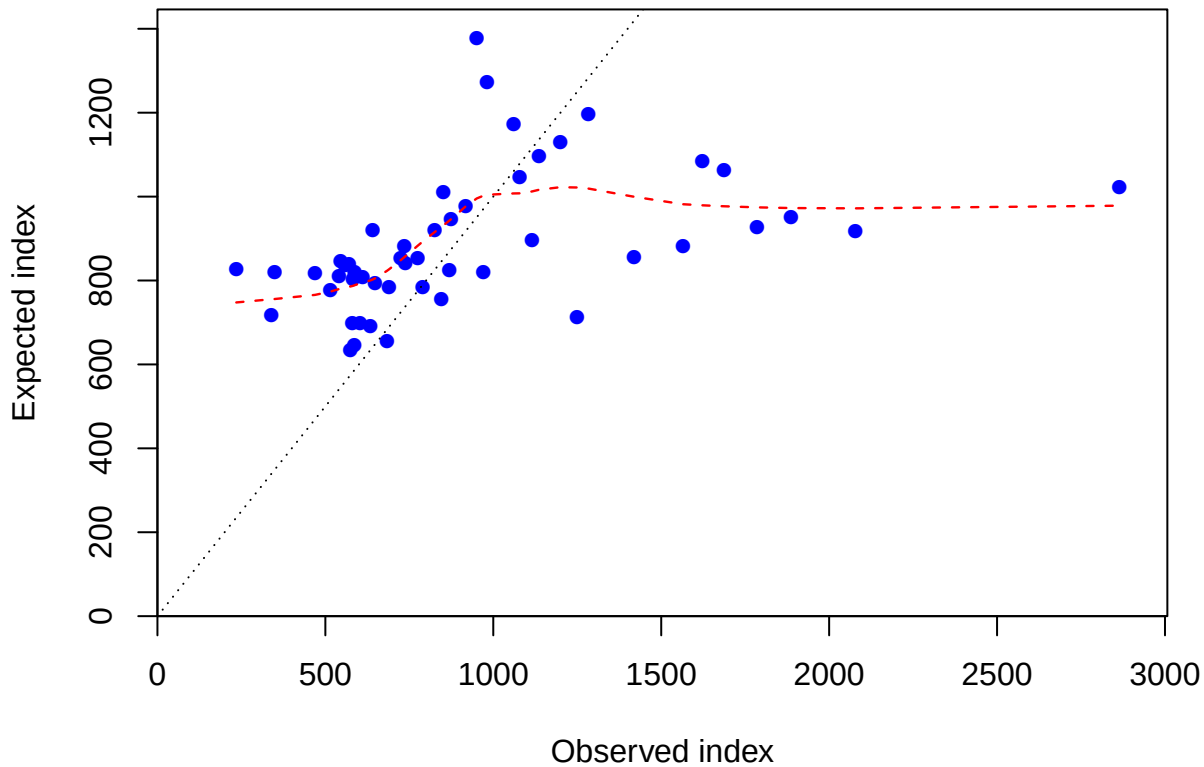




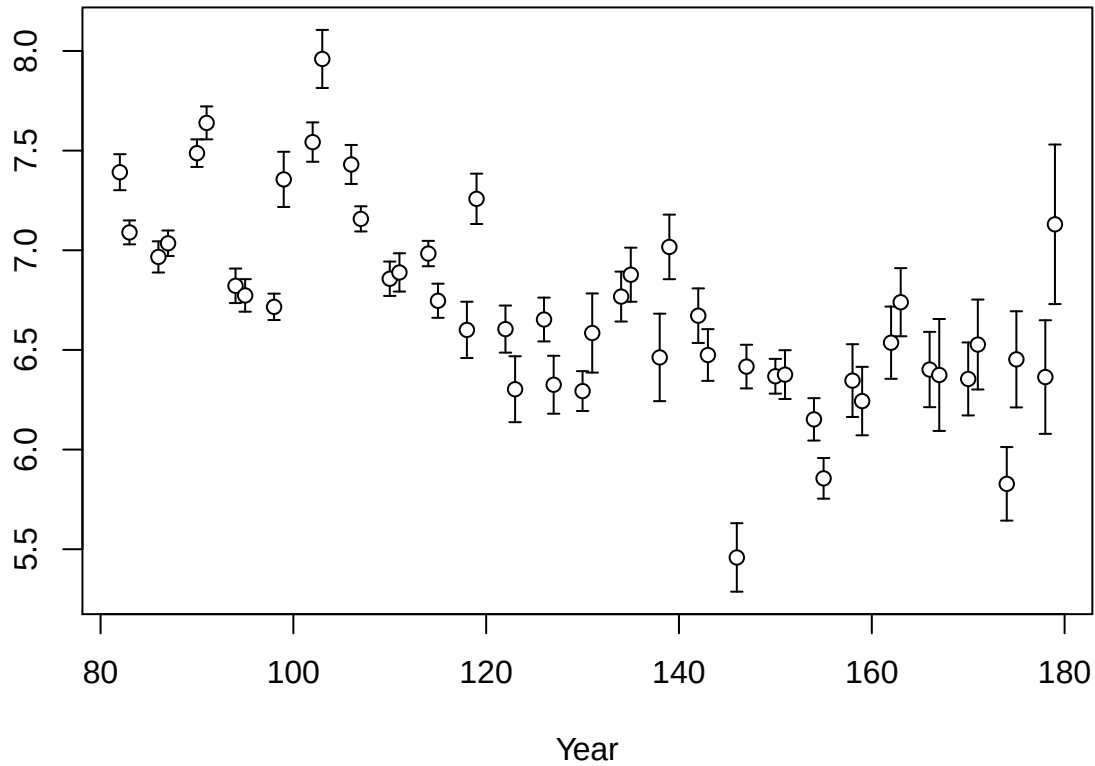


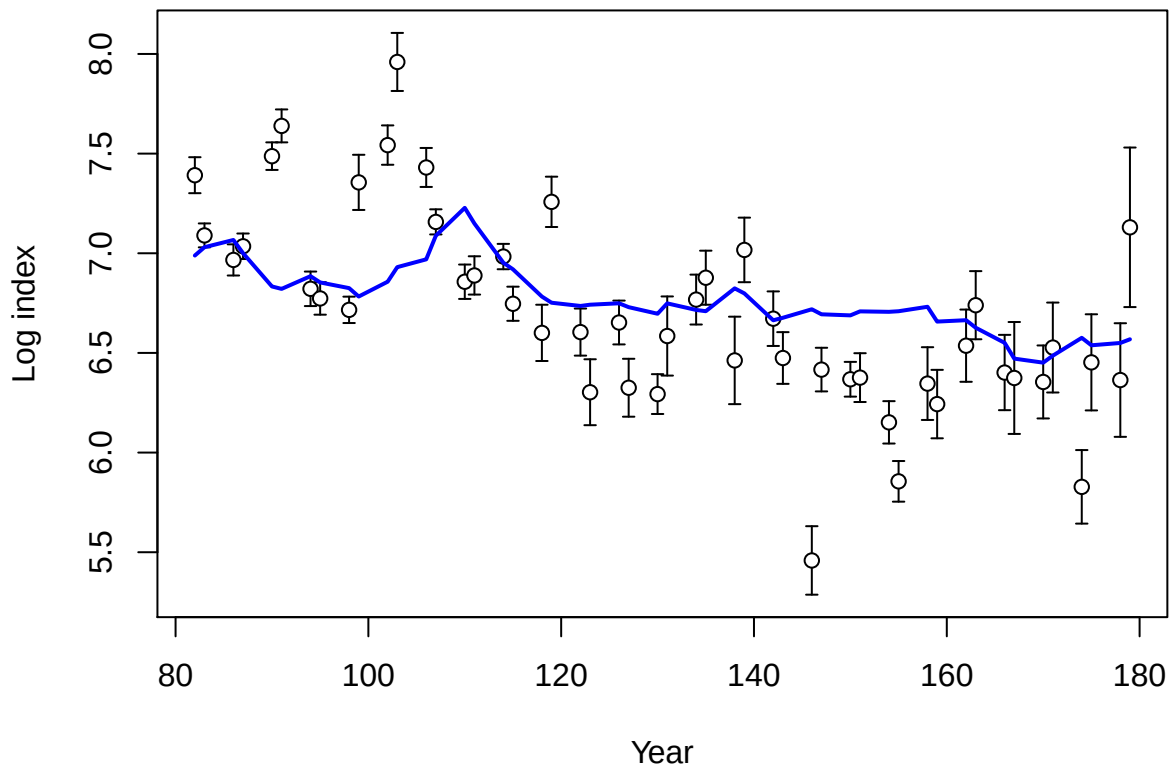


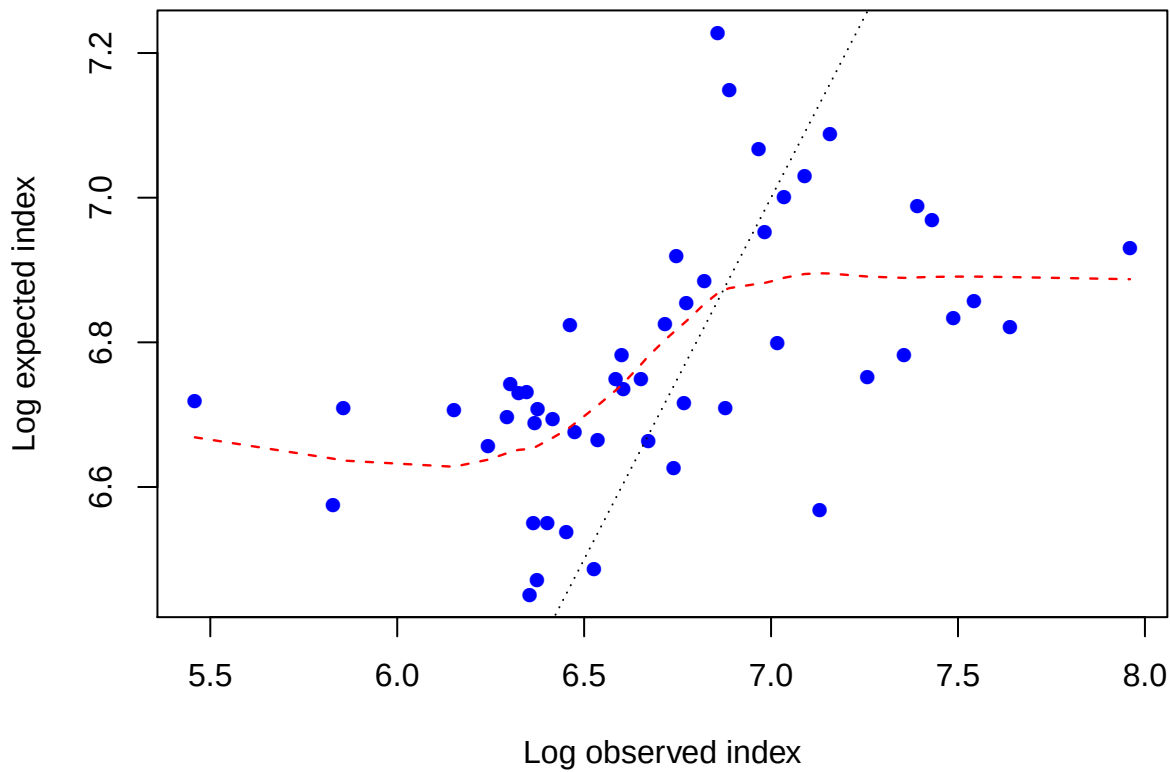


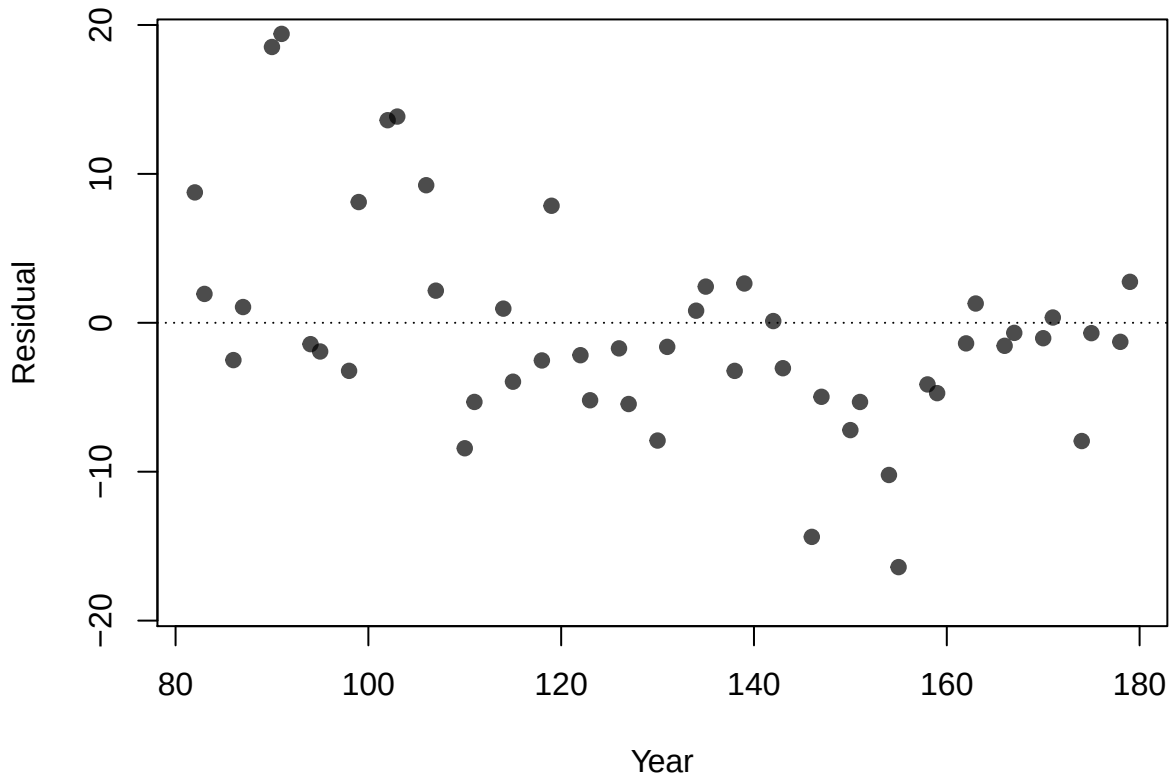


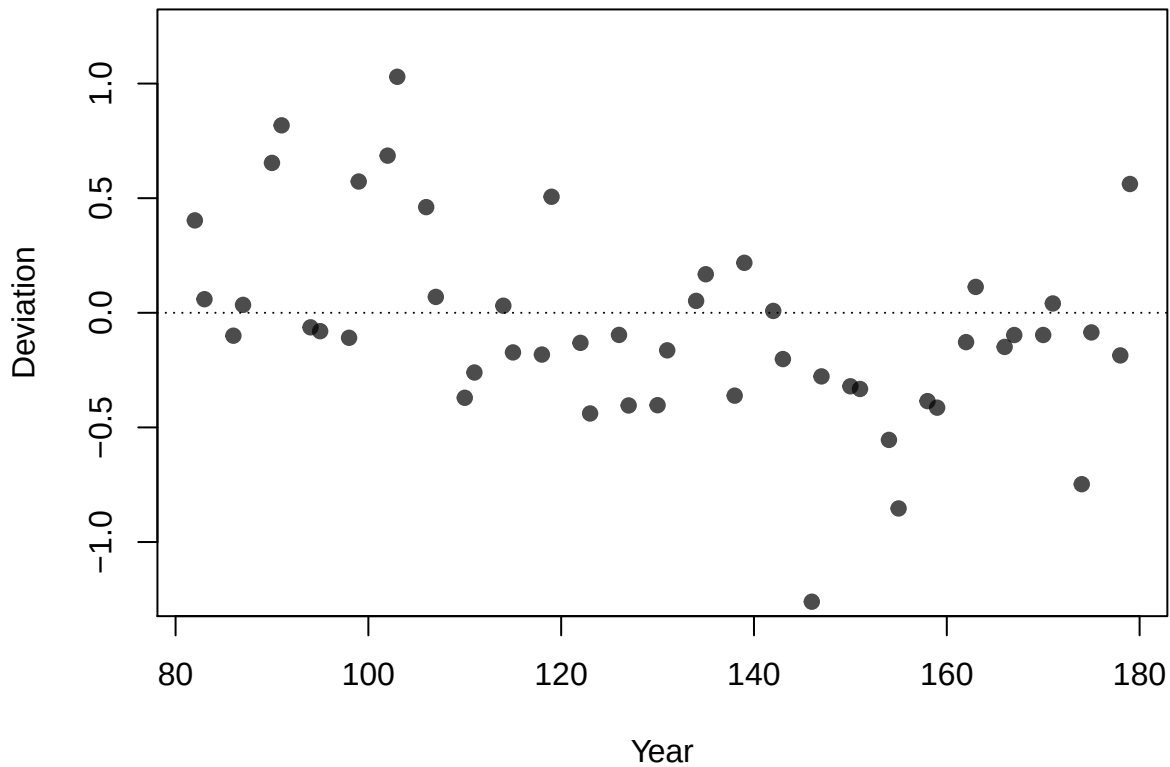
Log index

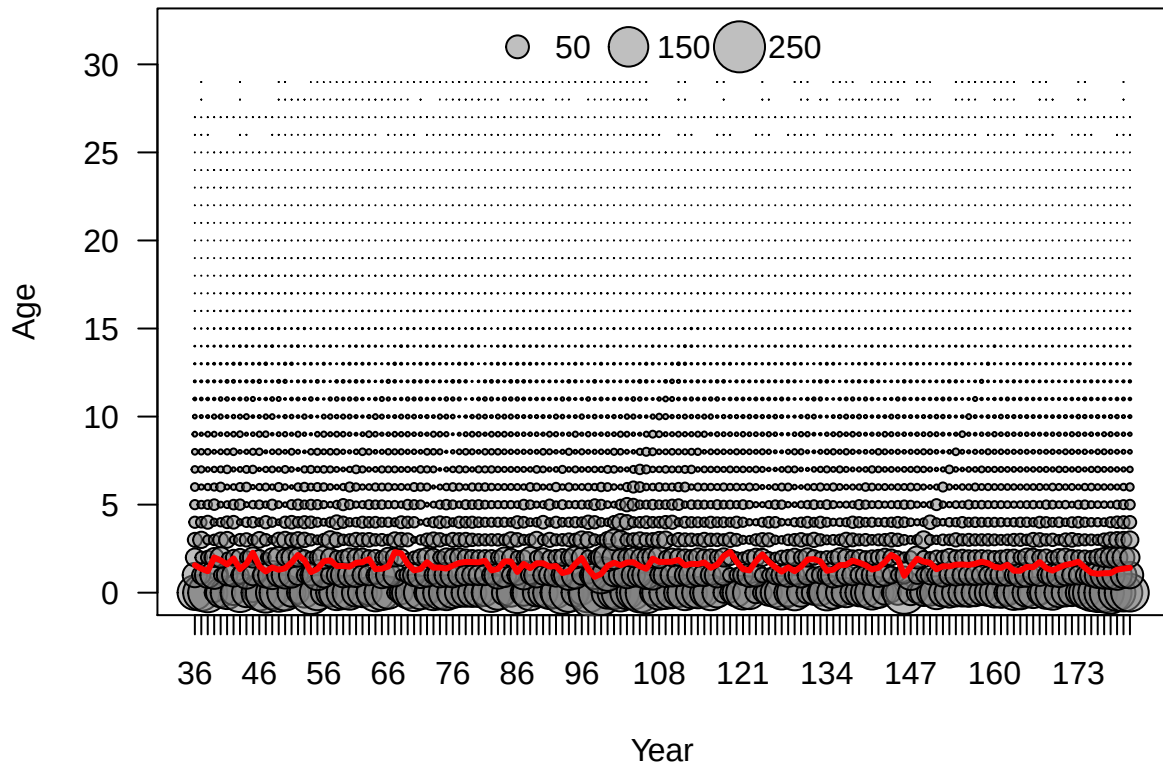


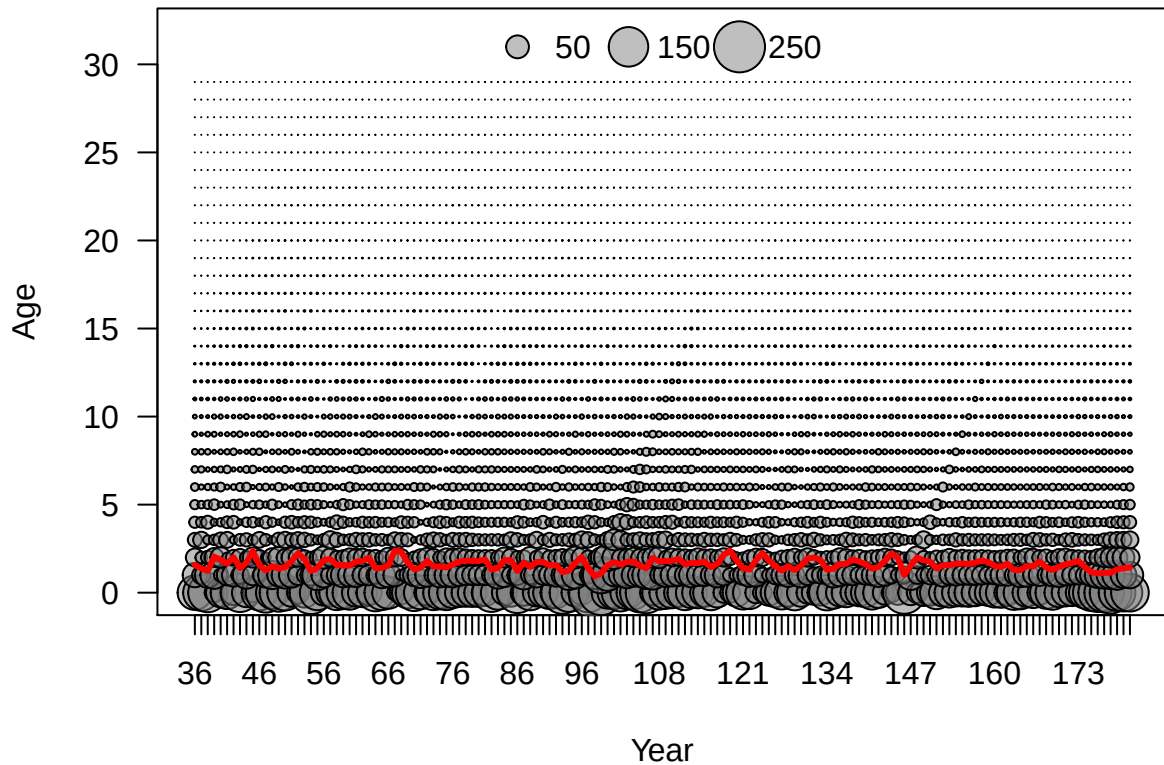




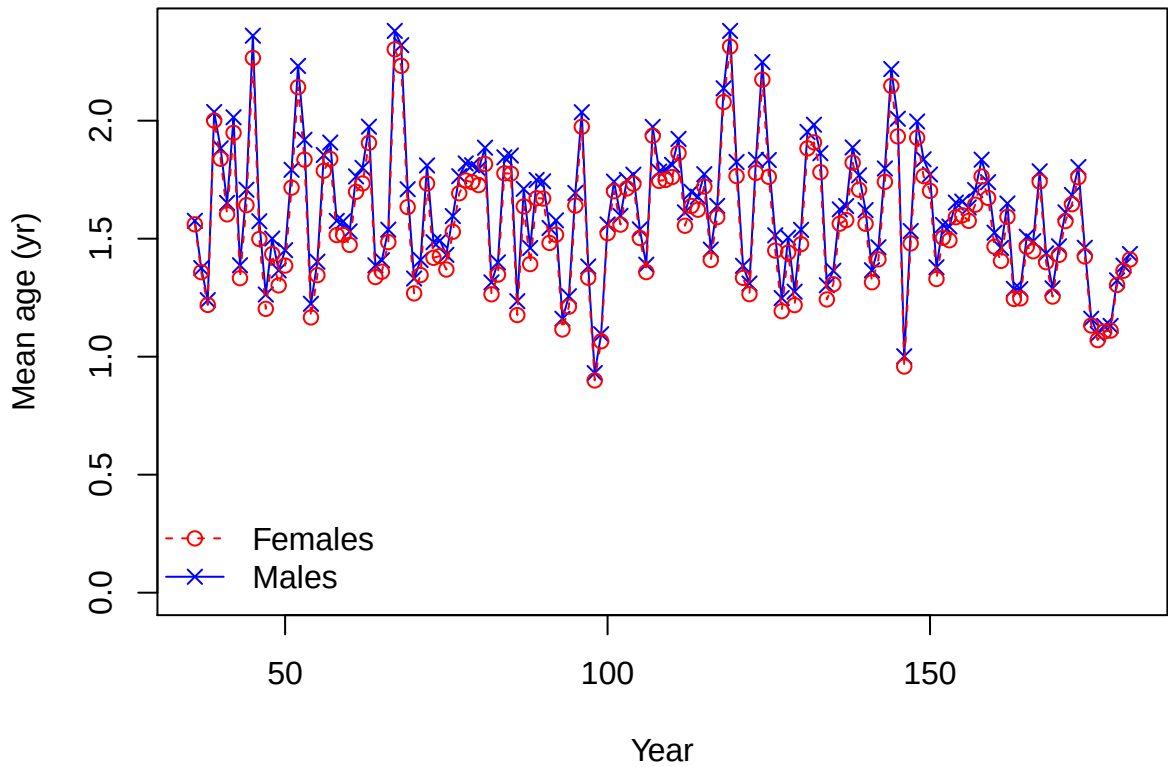


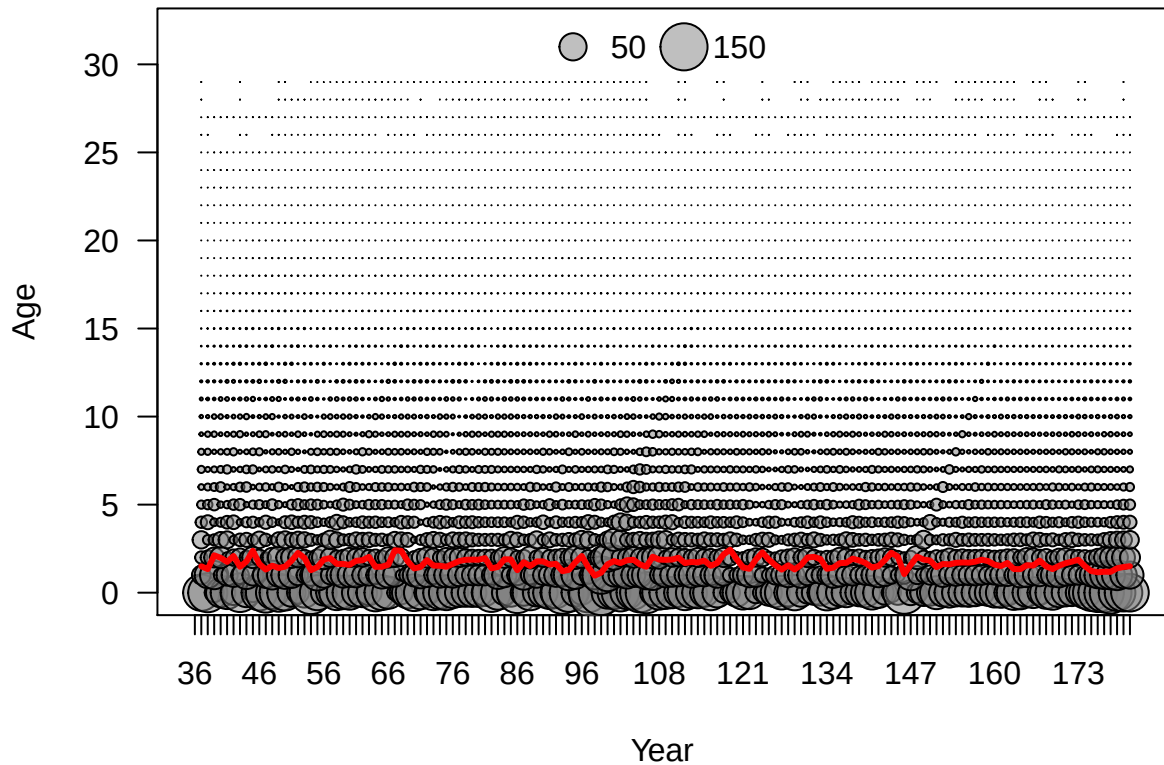


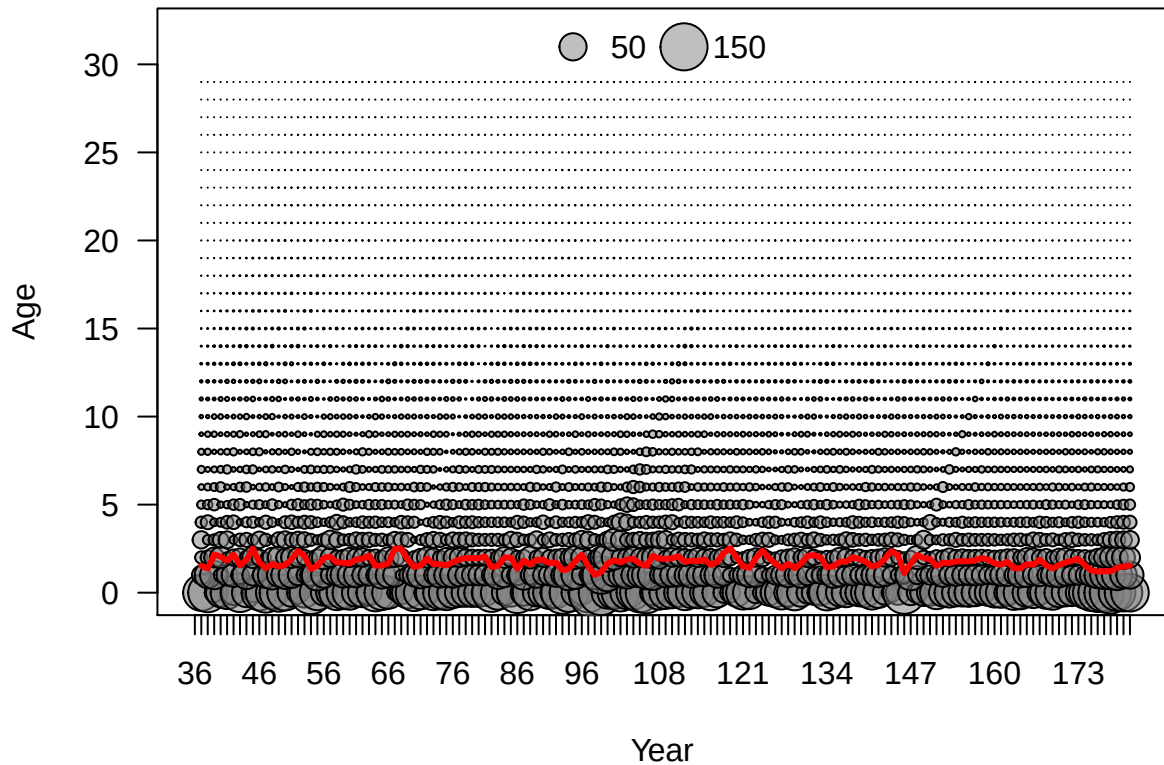


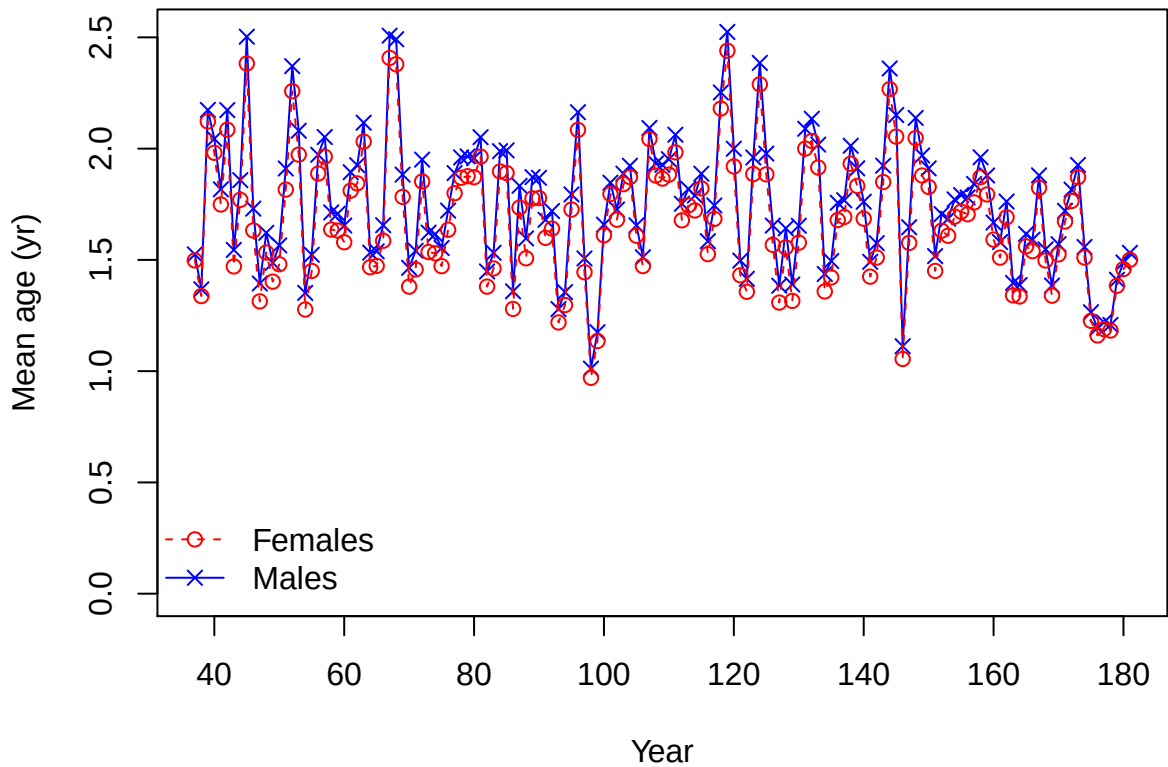


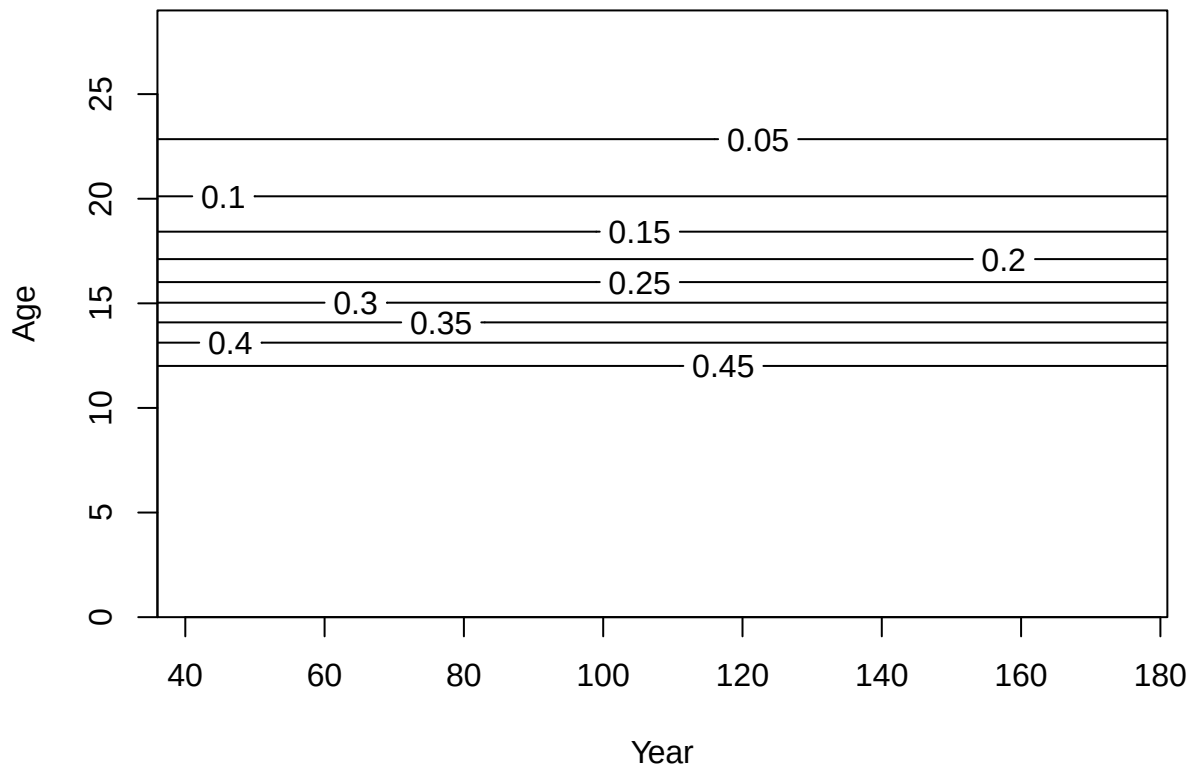


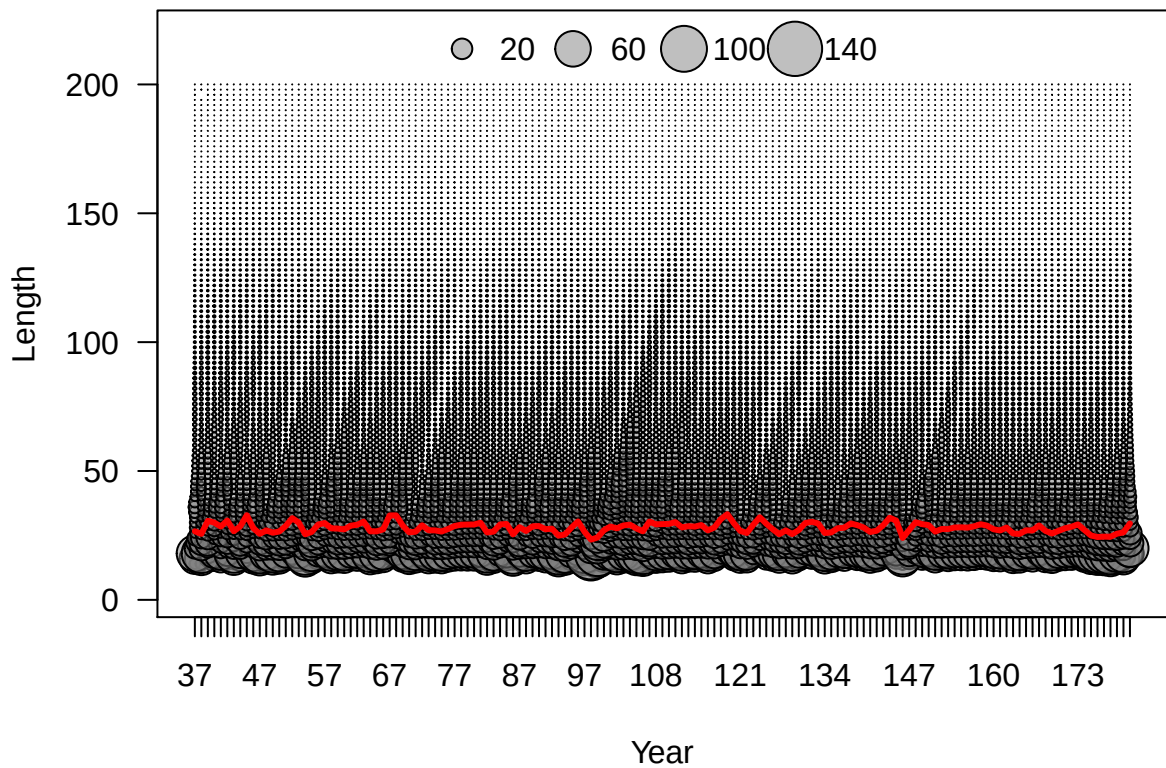


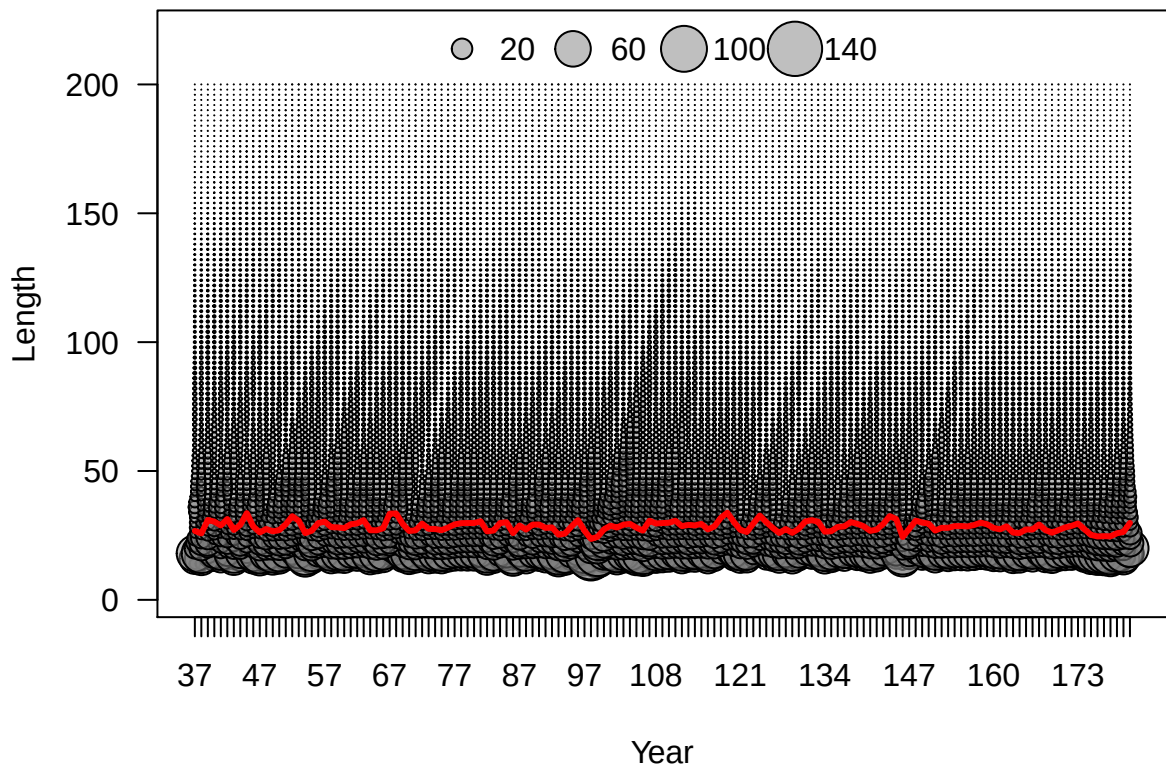


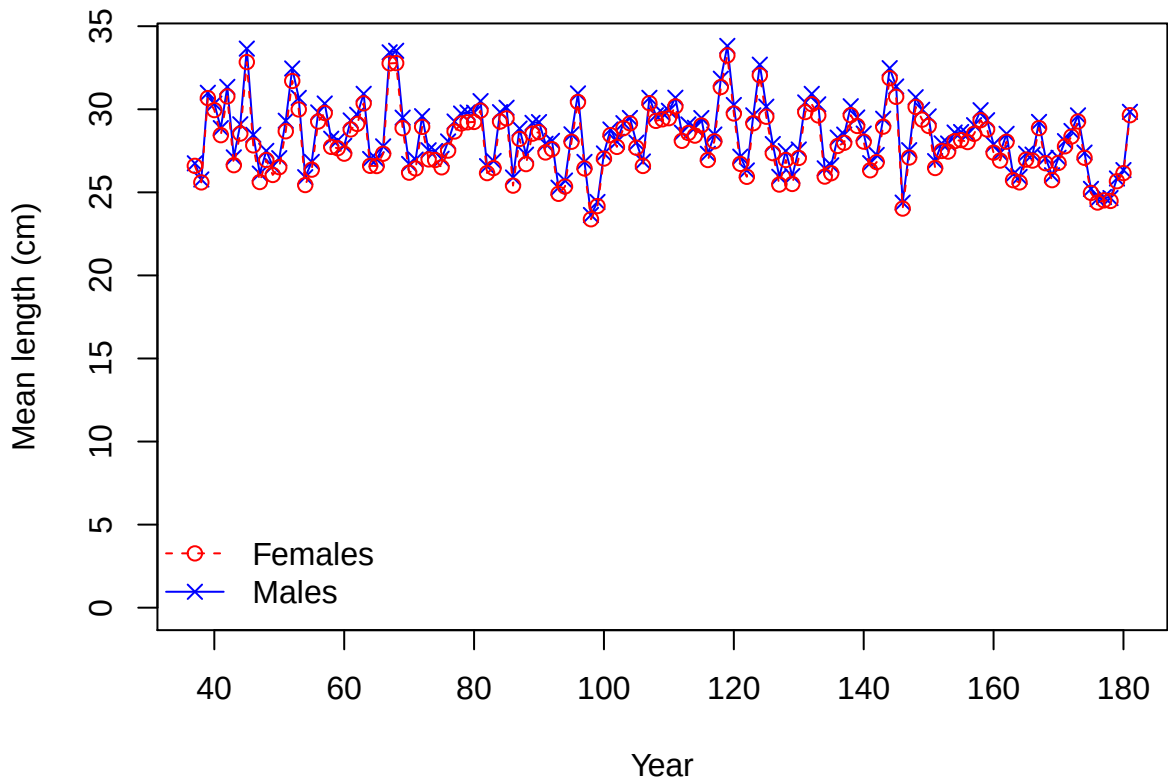




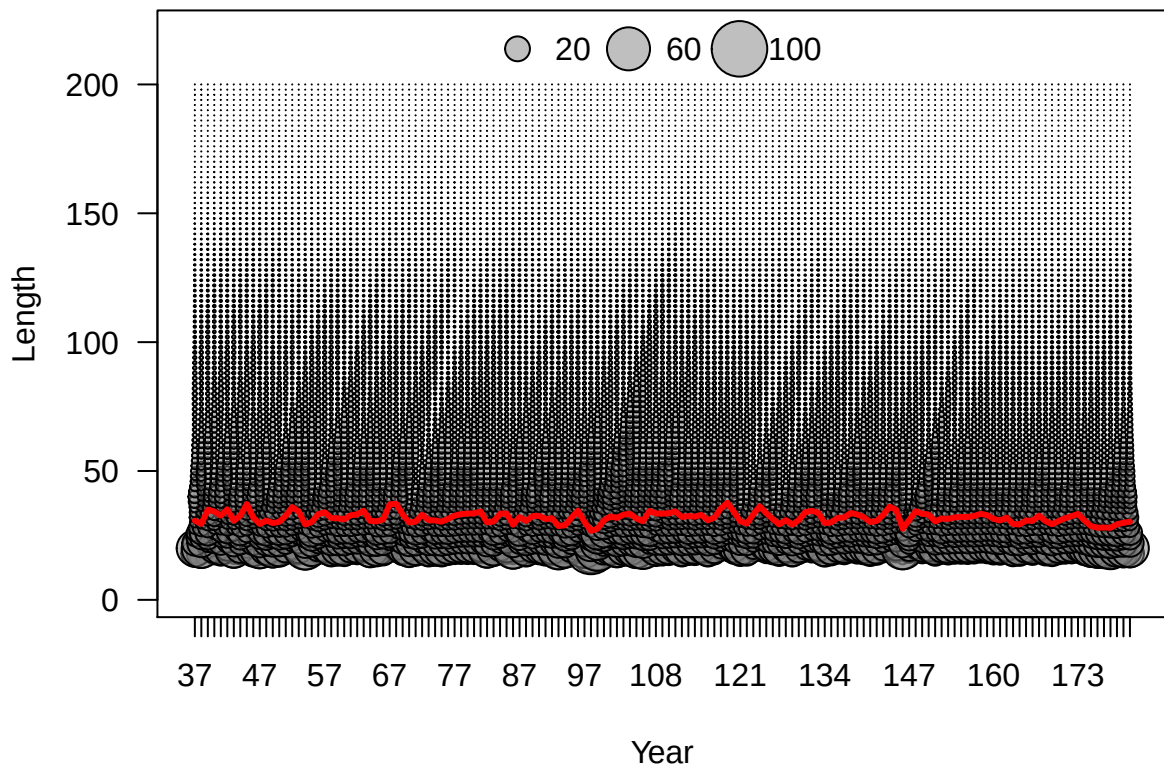


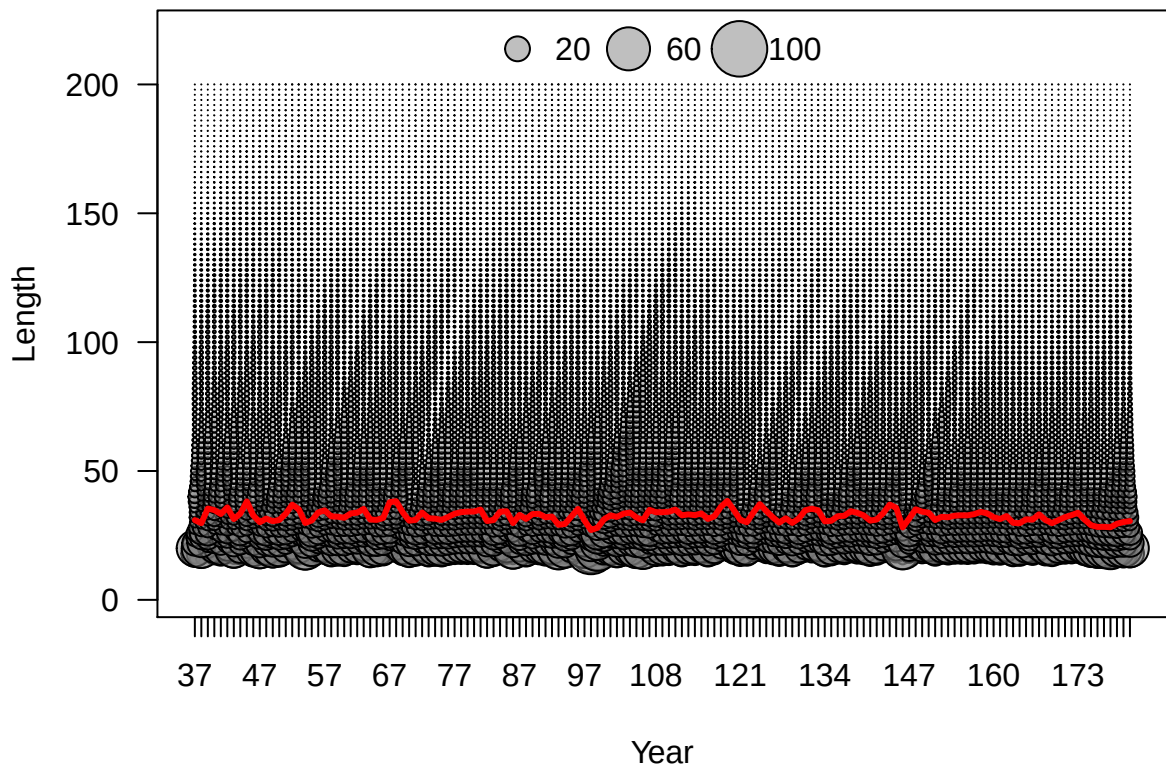


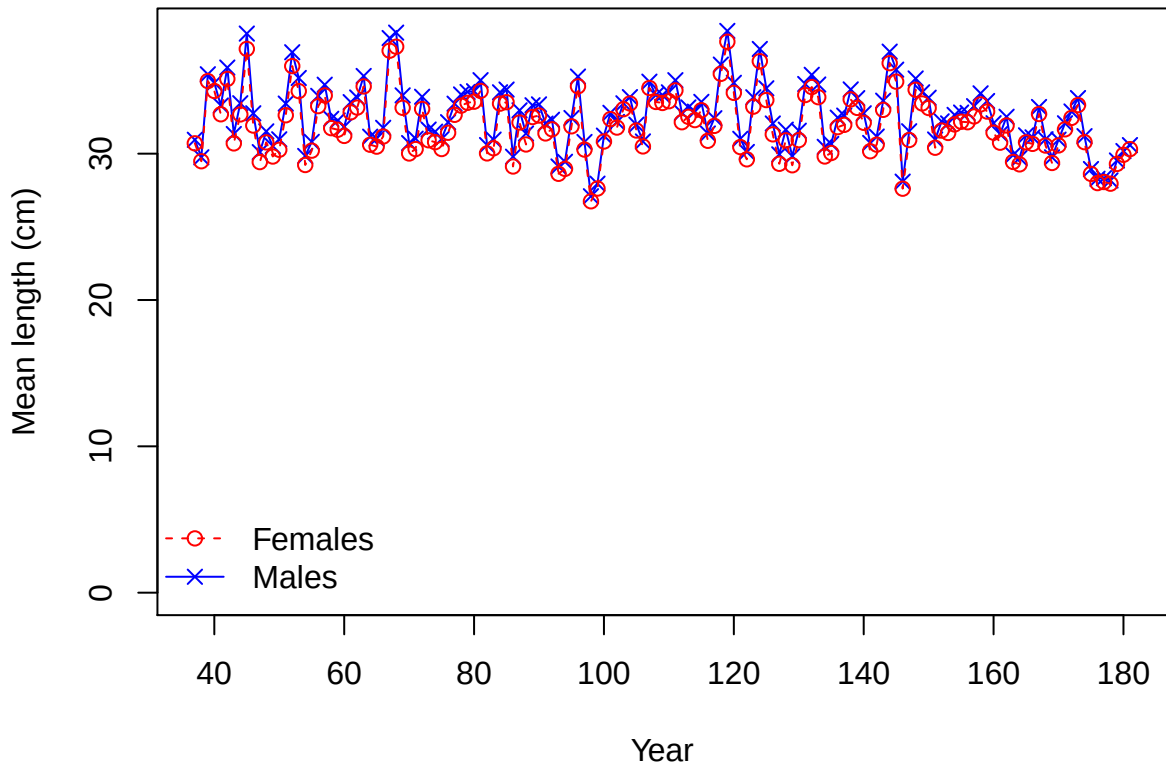


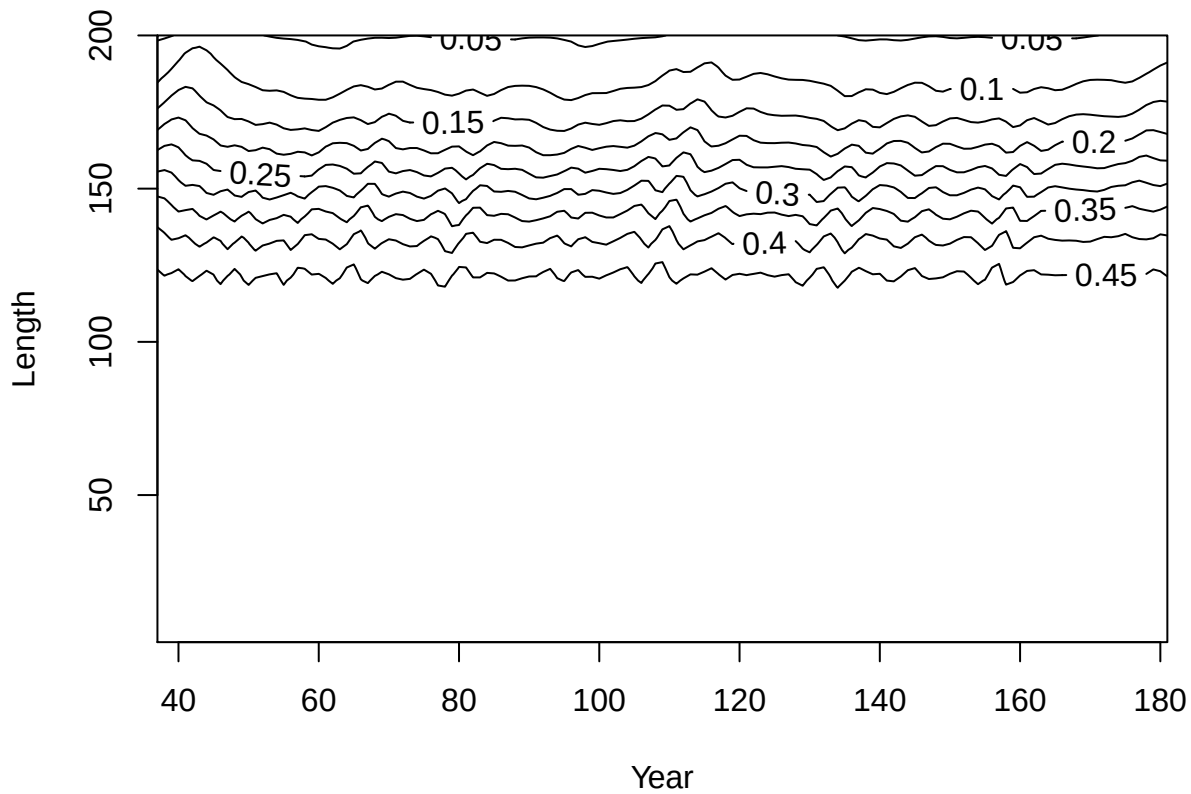


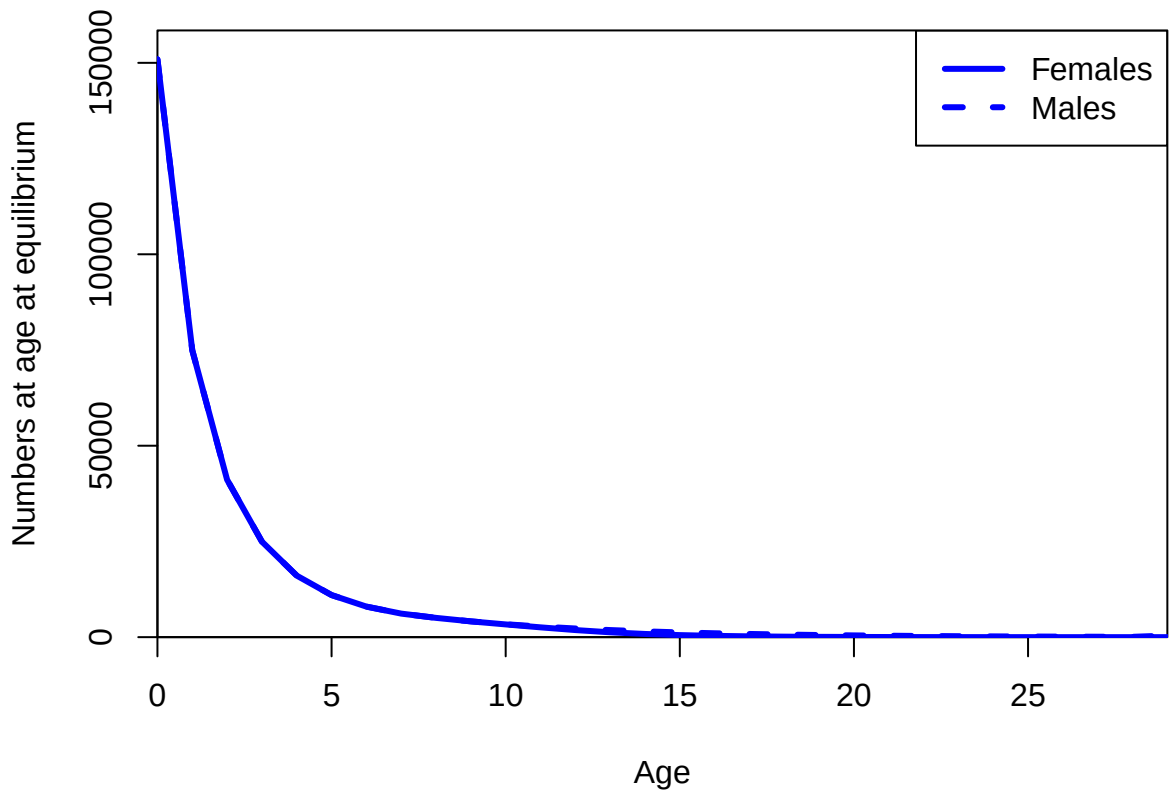


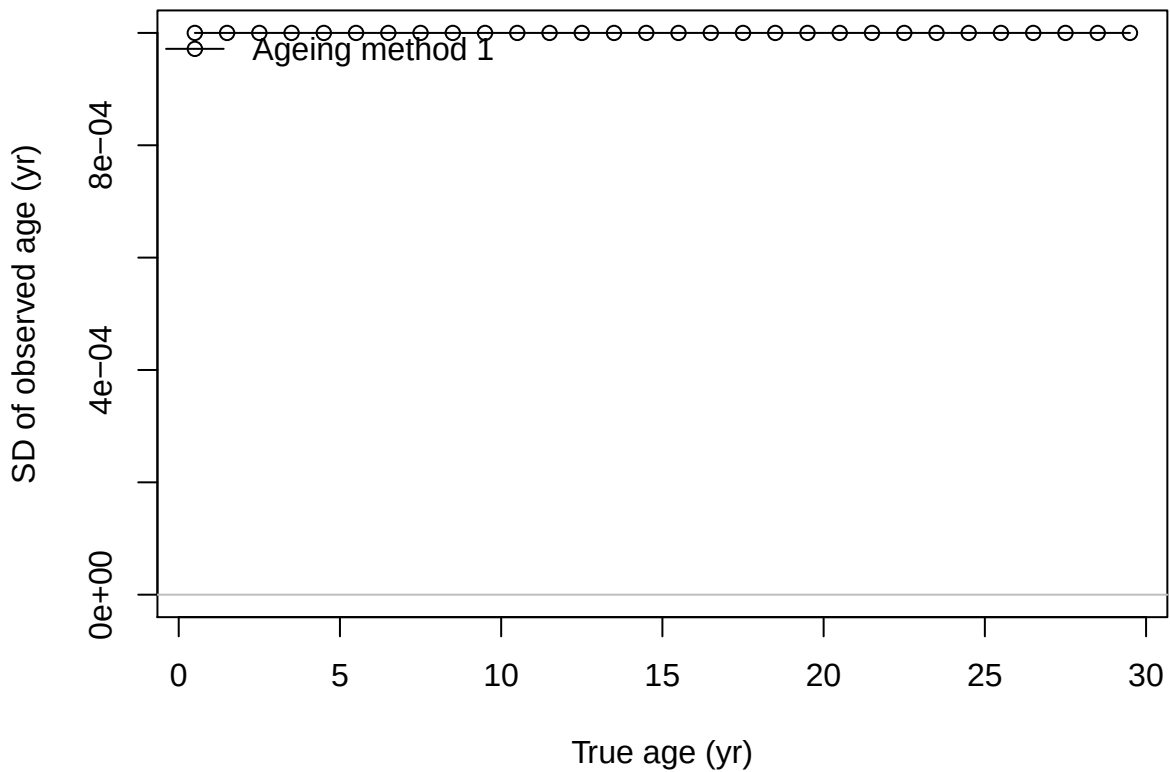


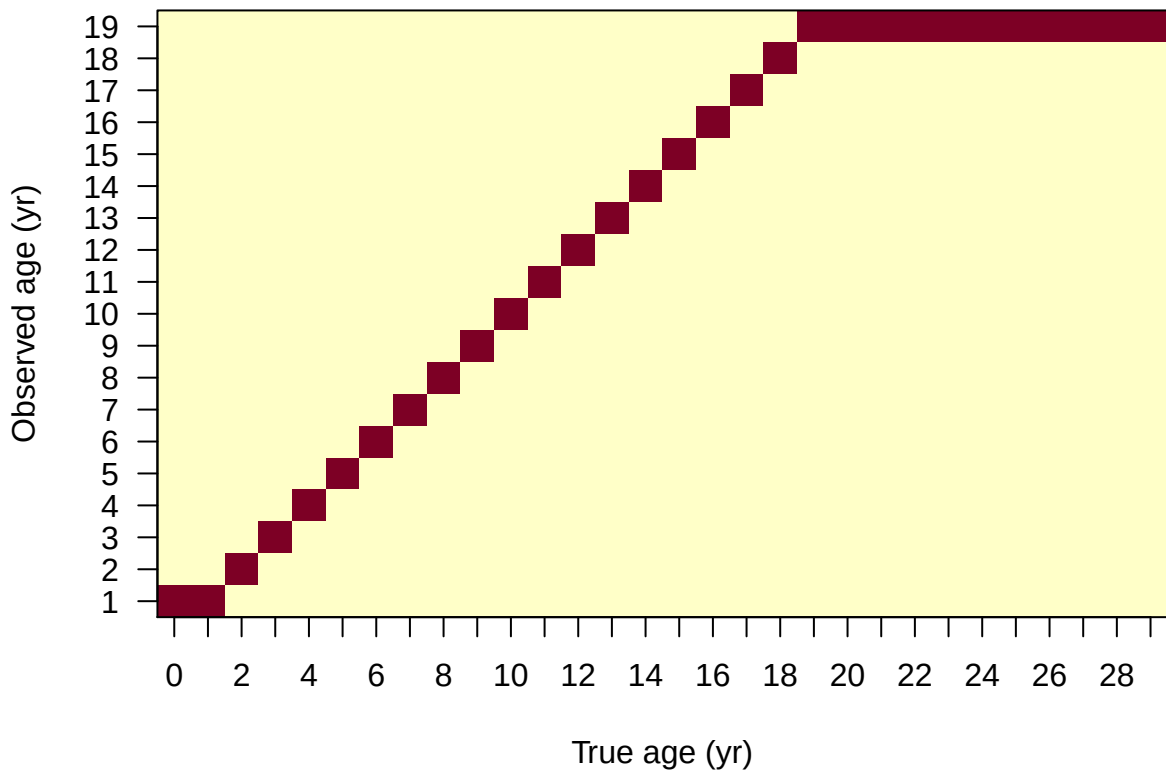




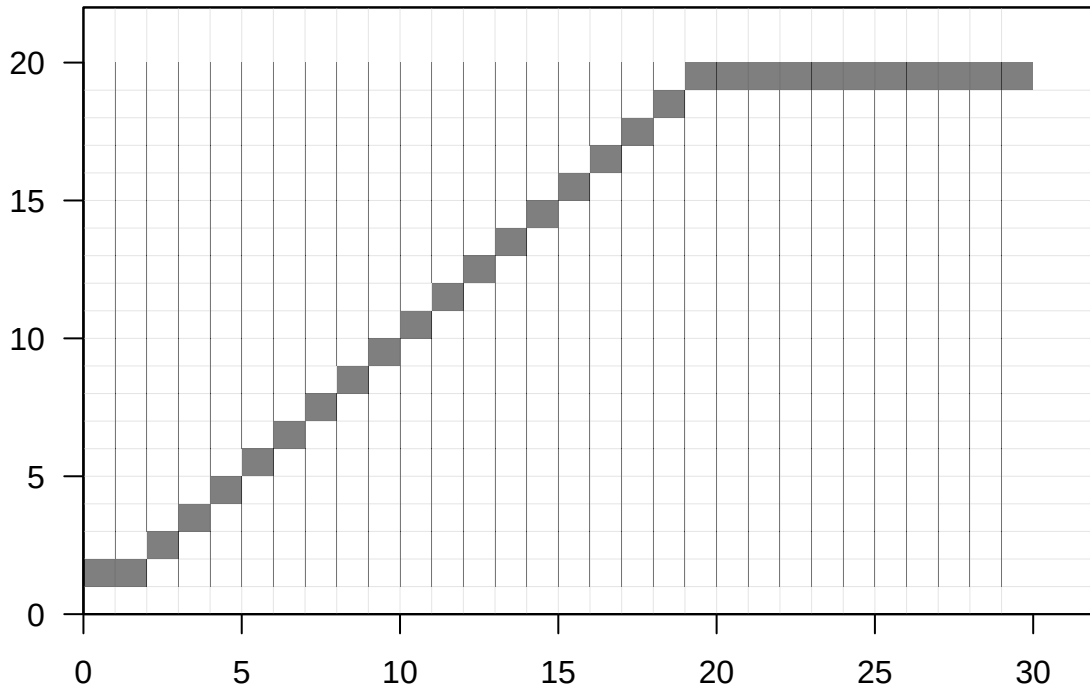








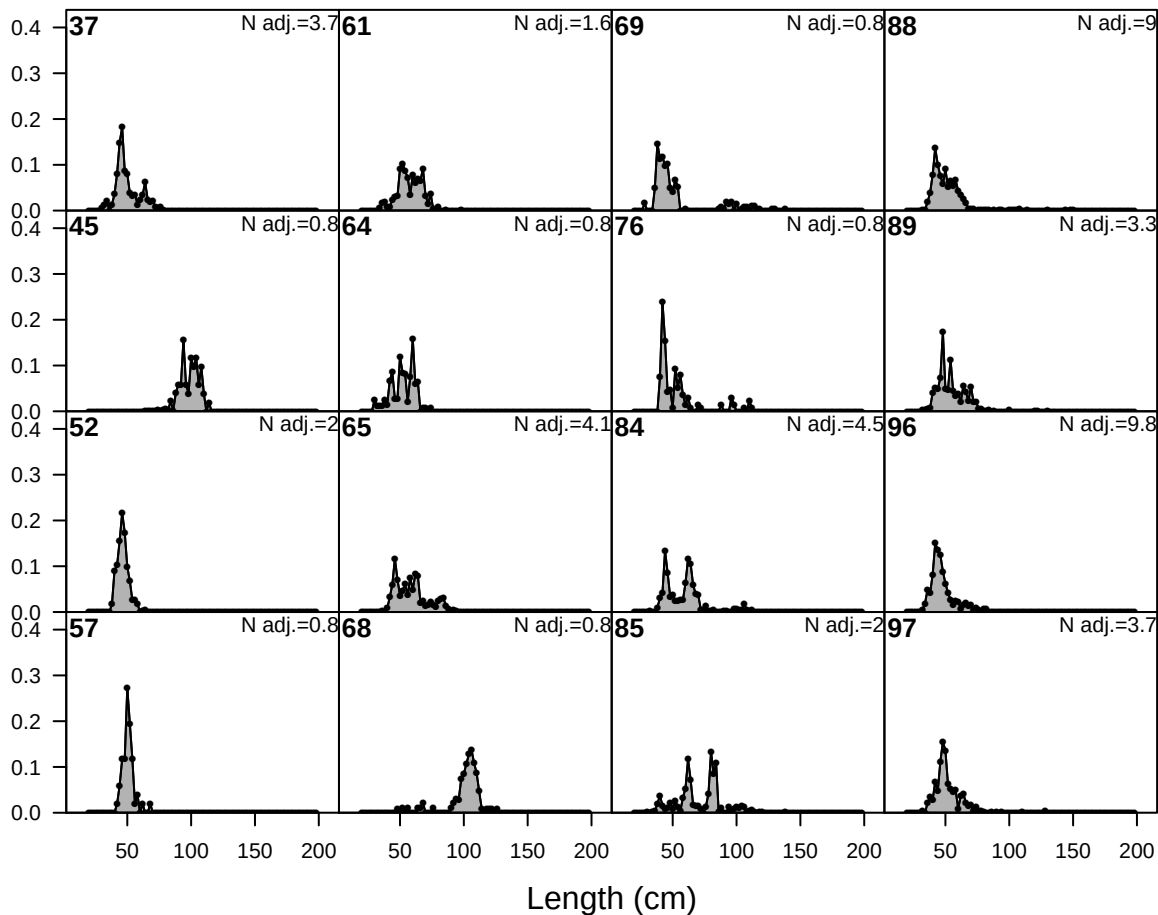
Observed age



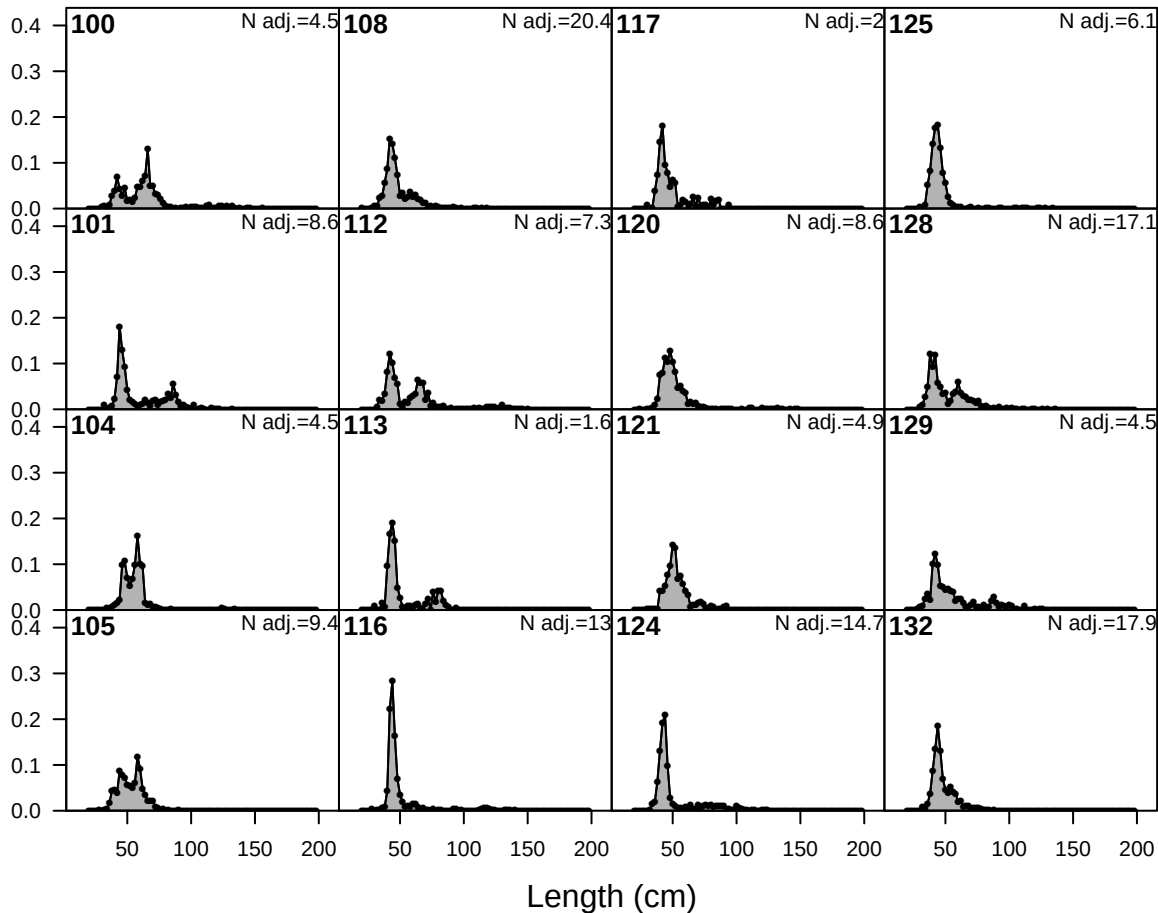
True age



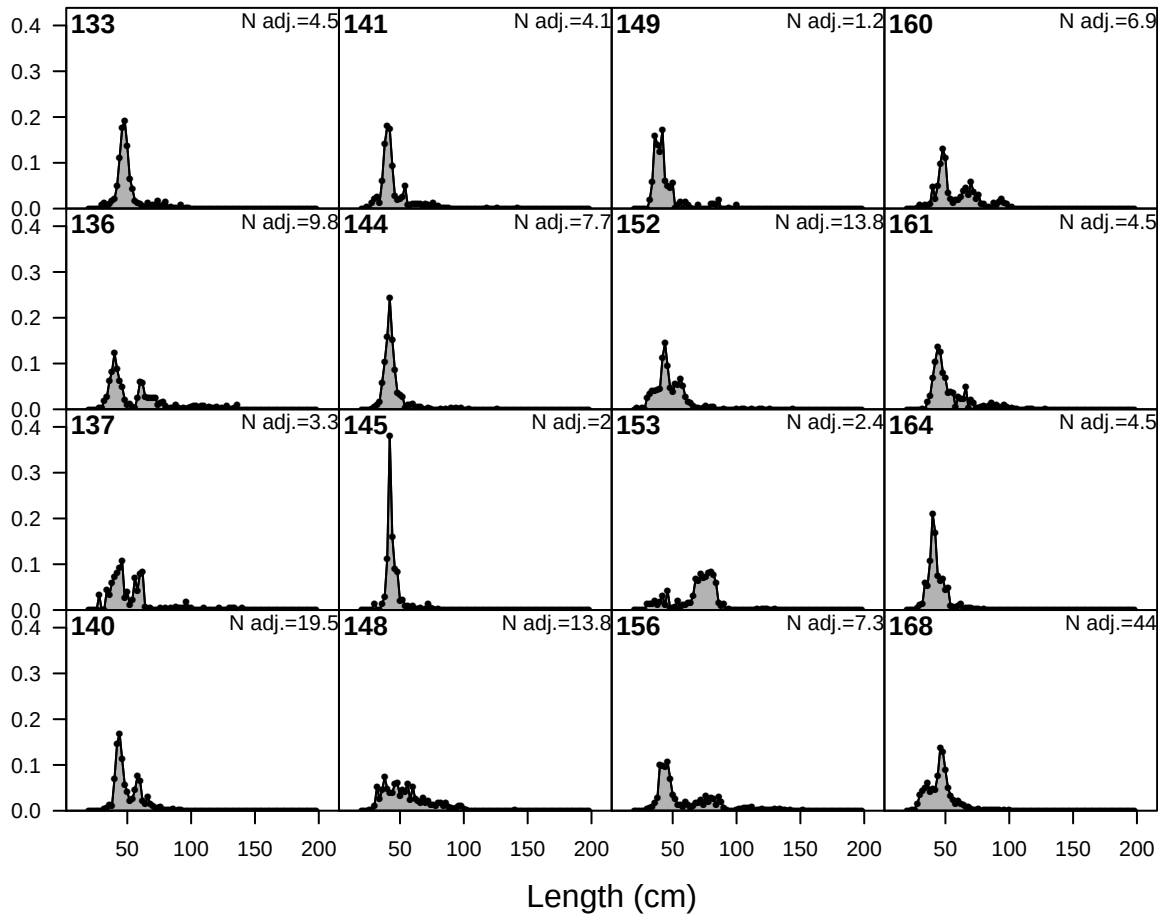
Proportion

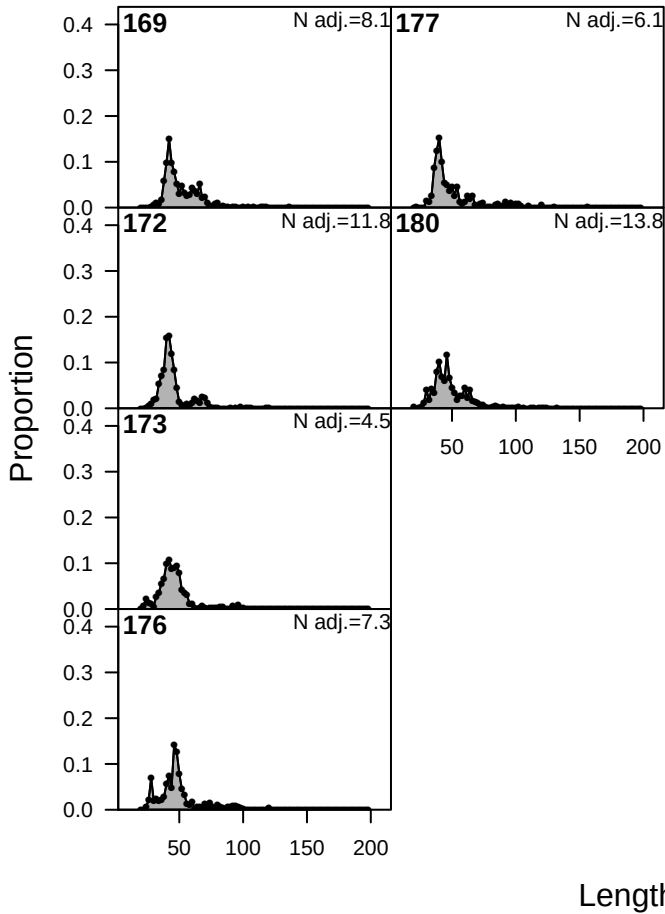


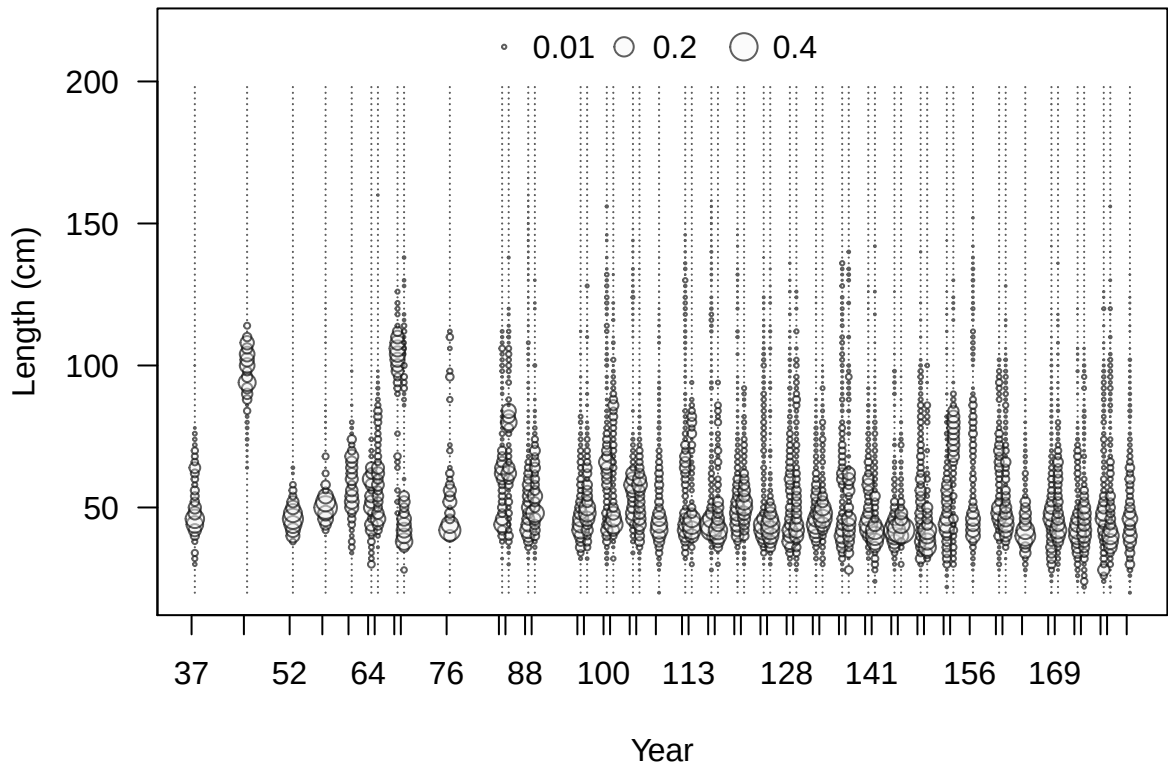
Proportion



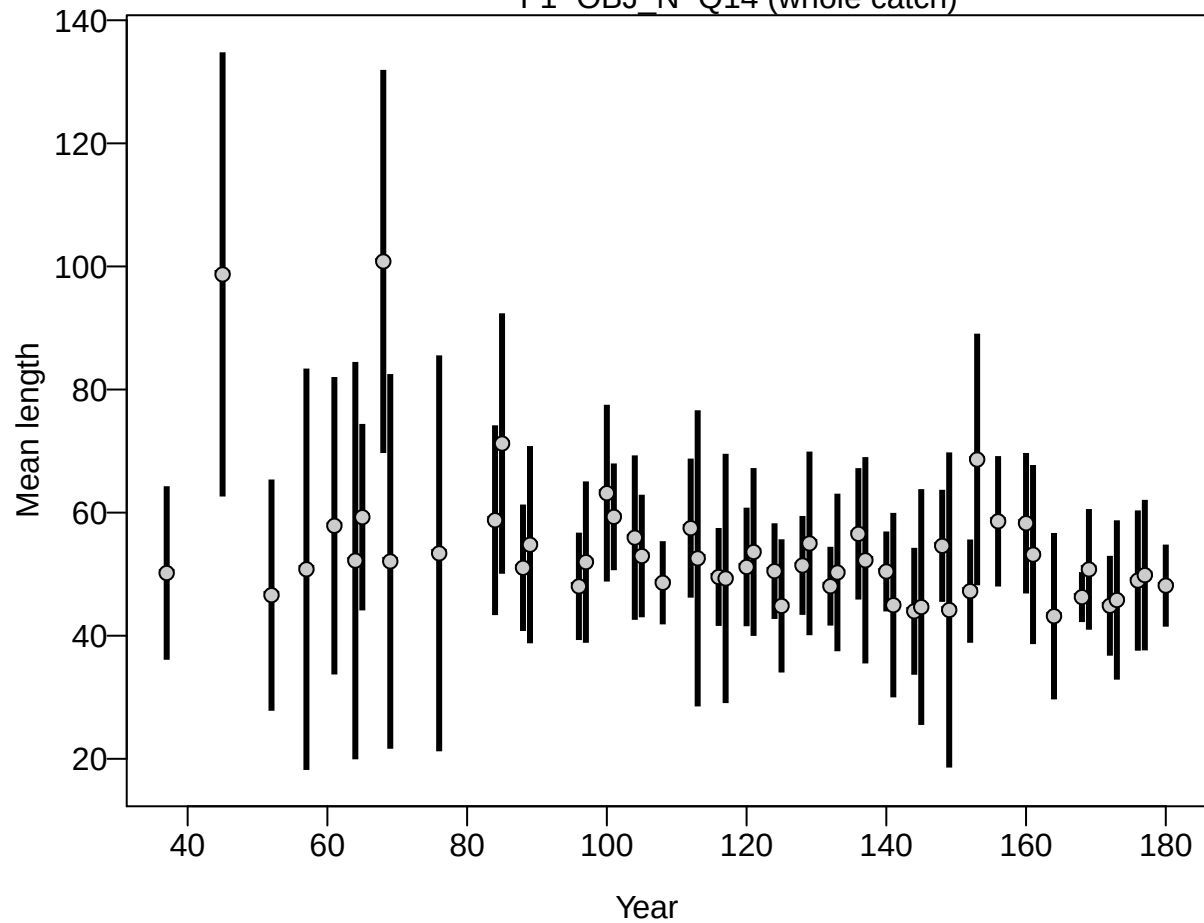
Proportion

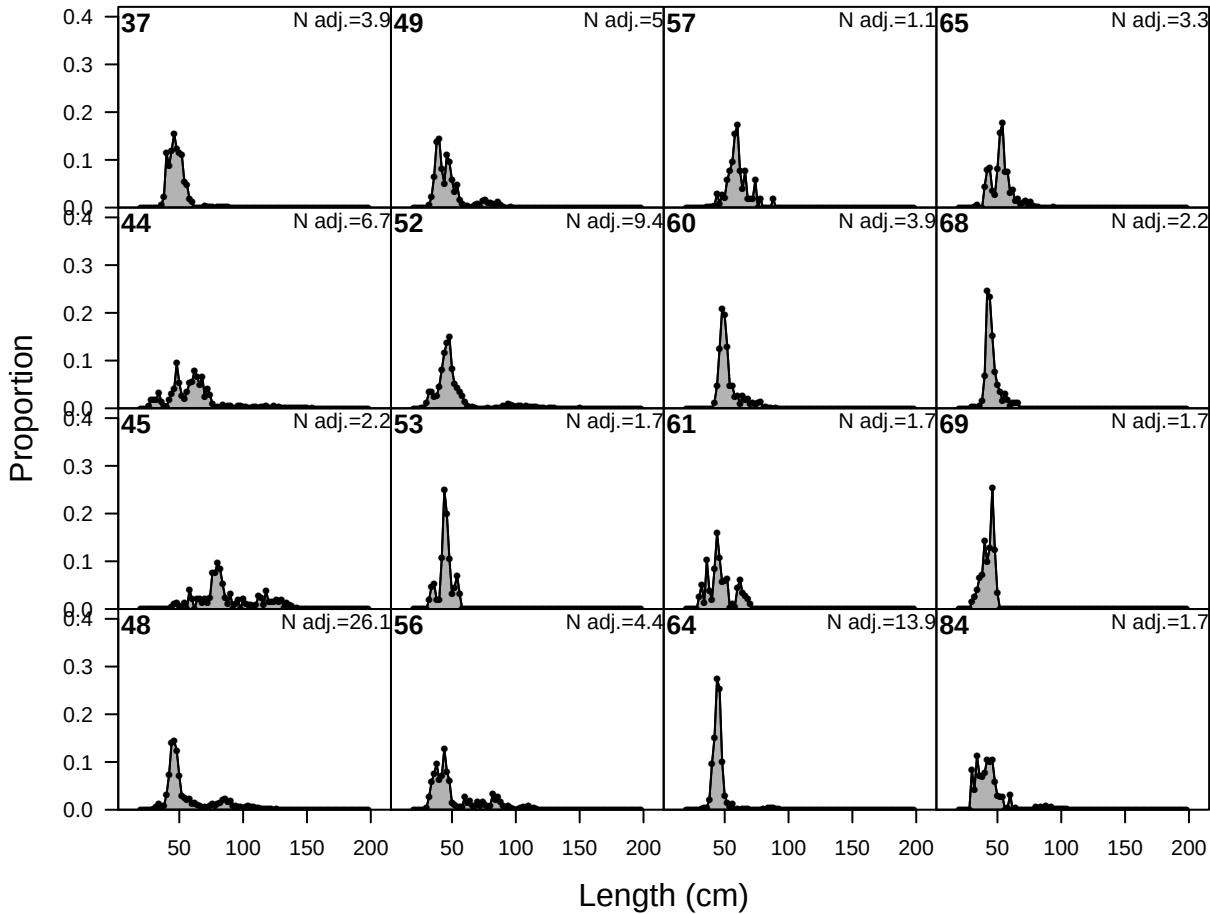




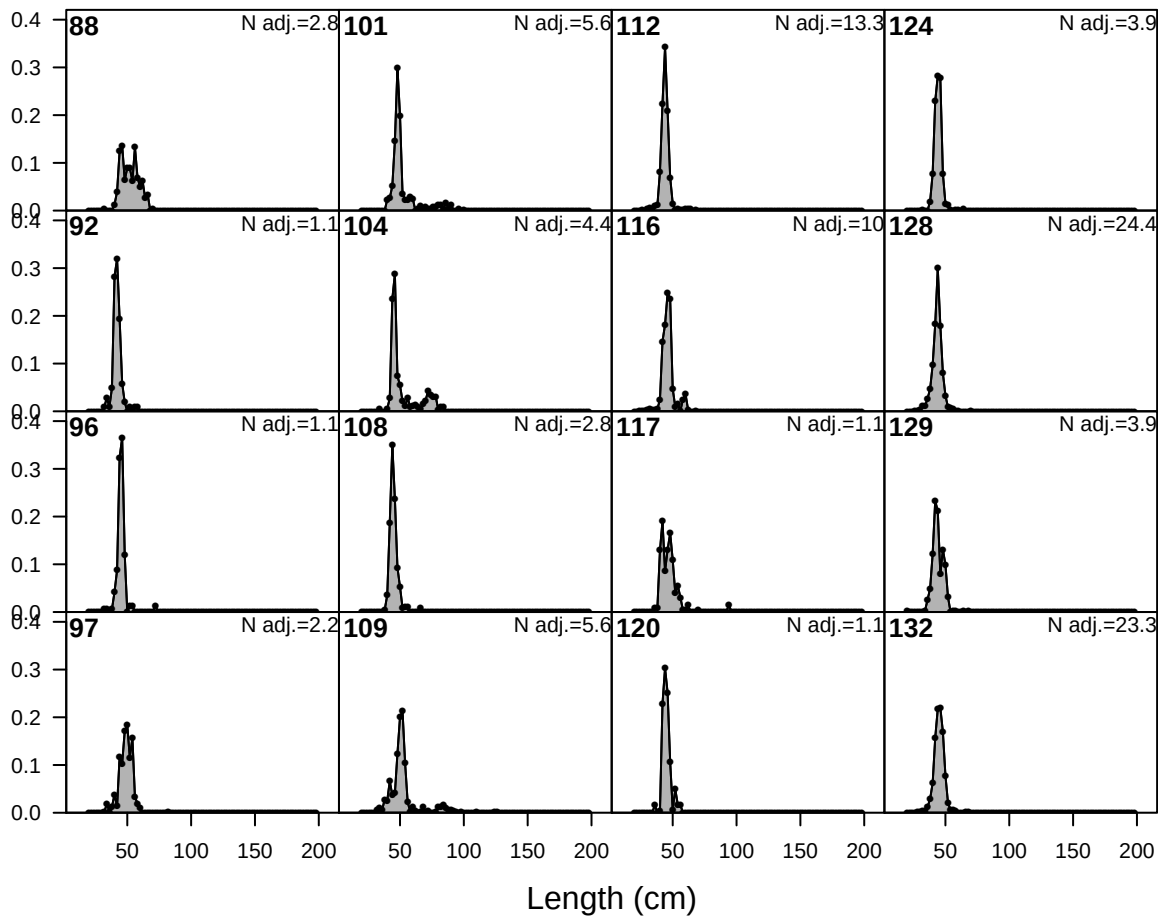


F1-OBJ\_N-Q14 (whole catch)

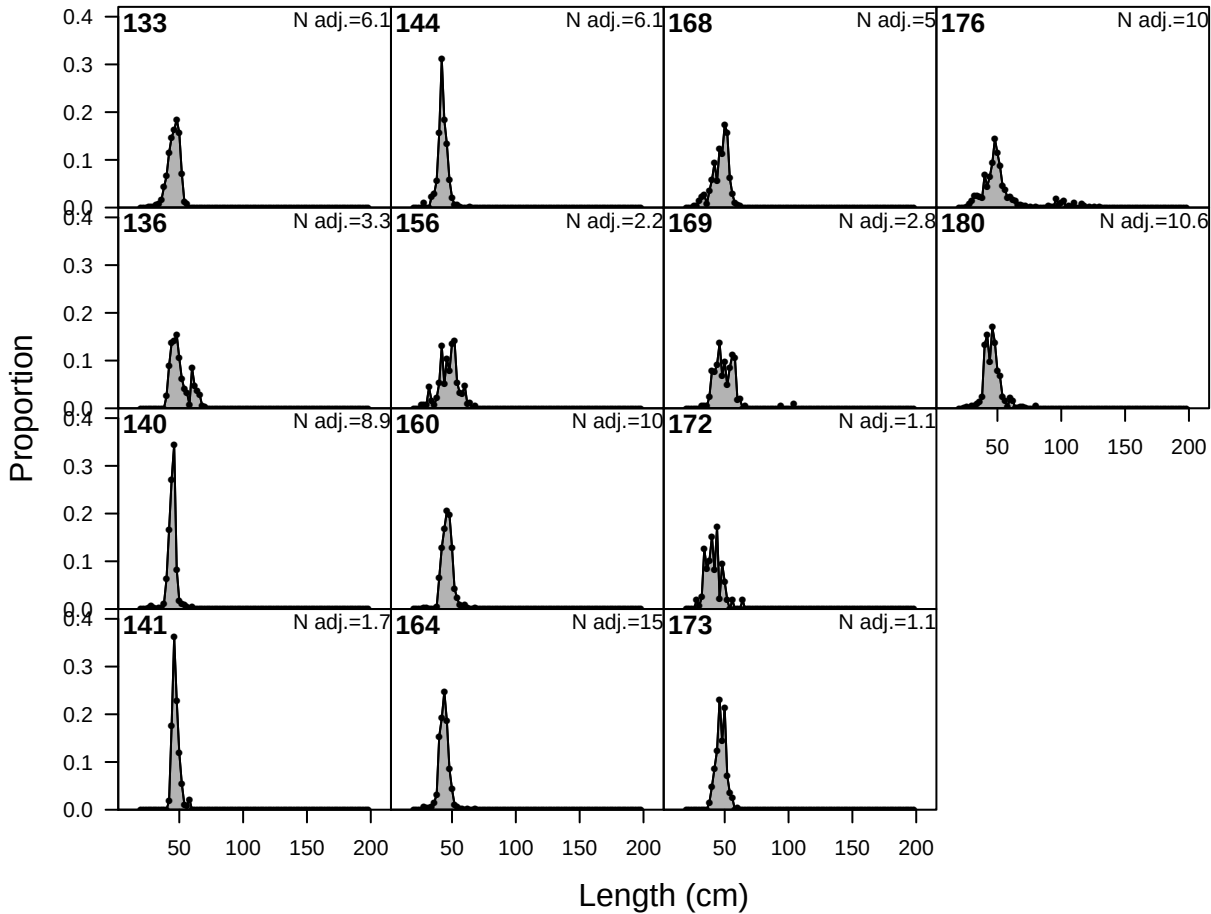


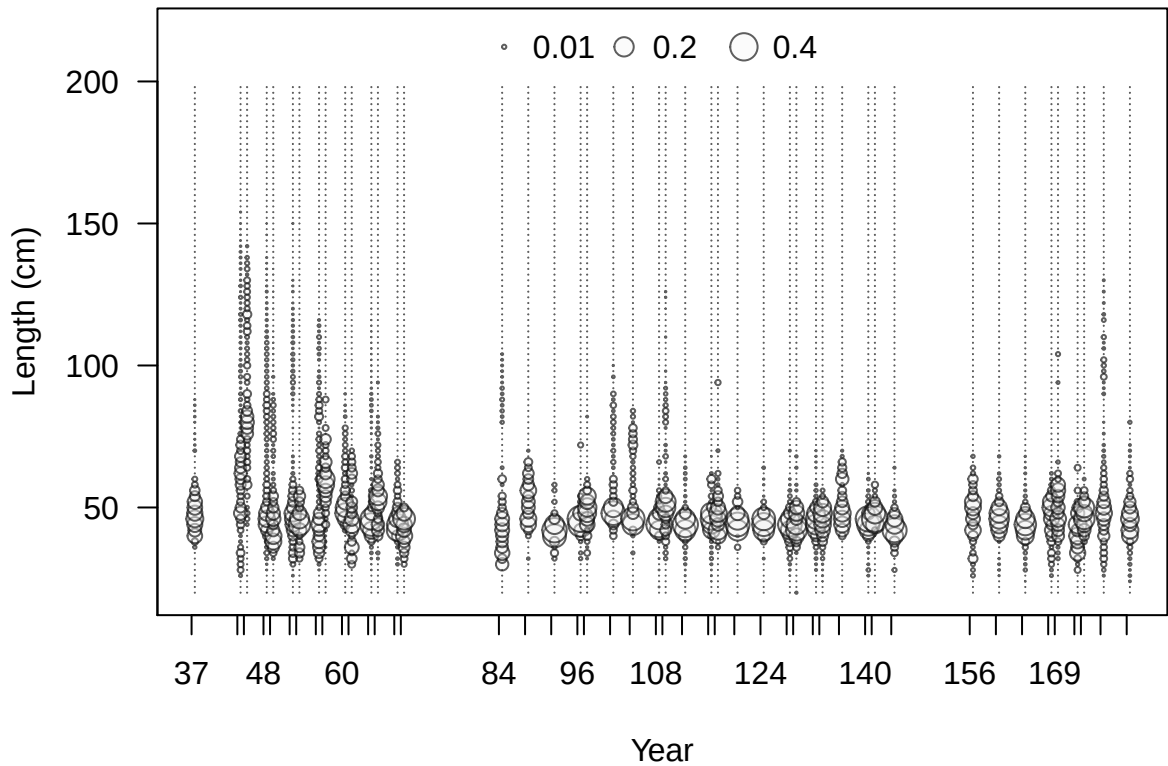


Proportion

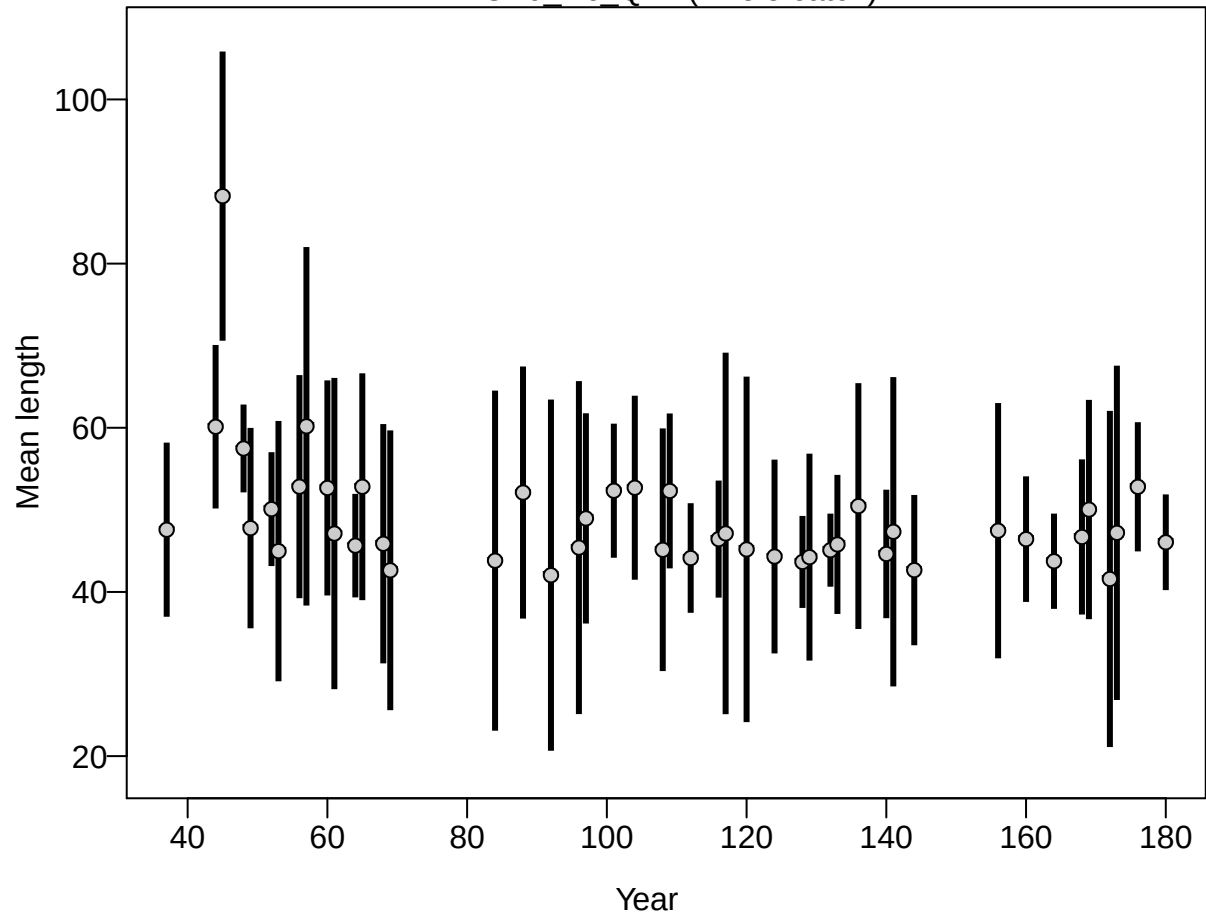




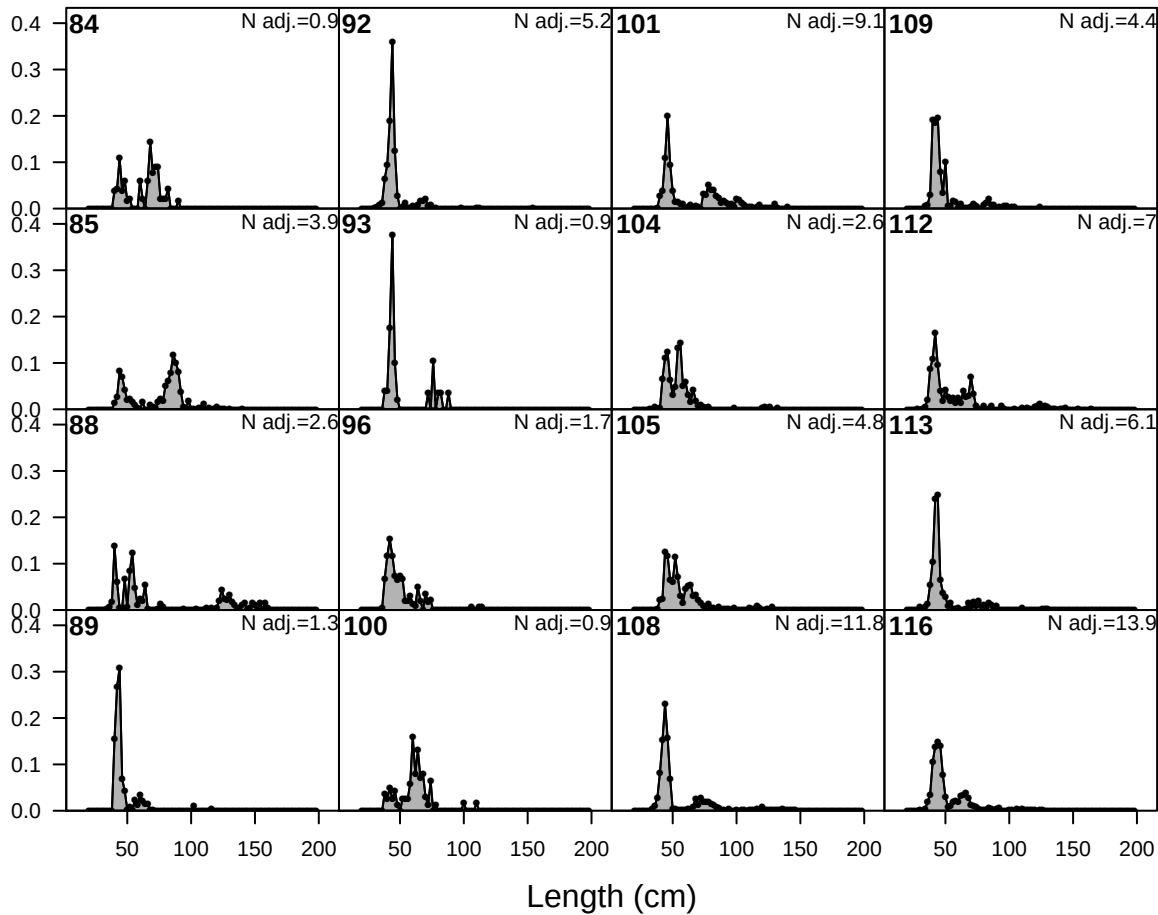




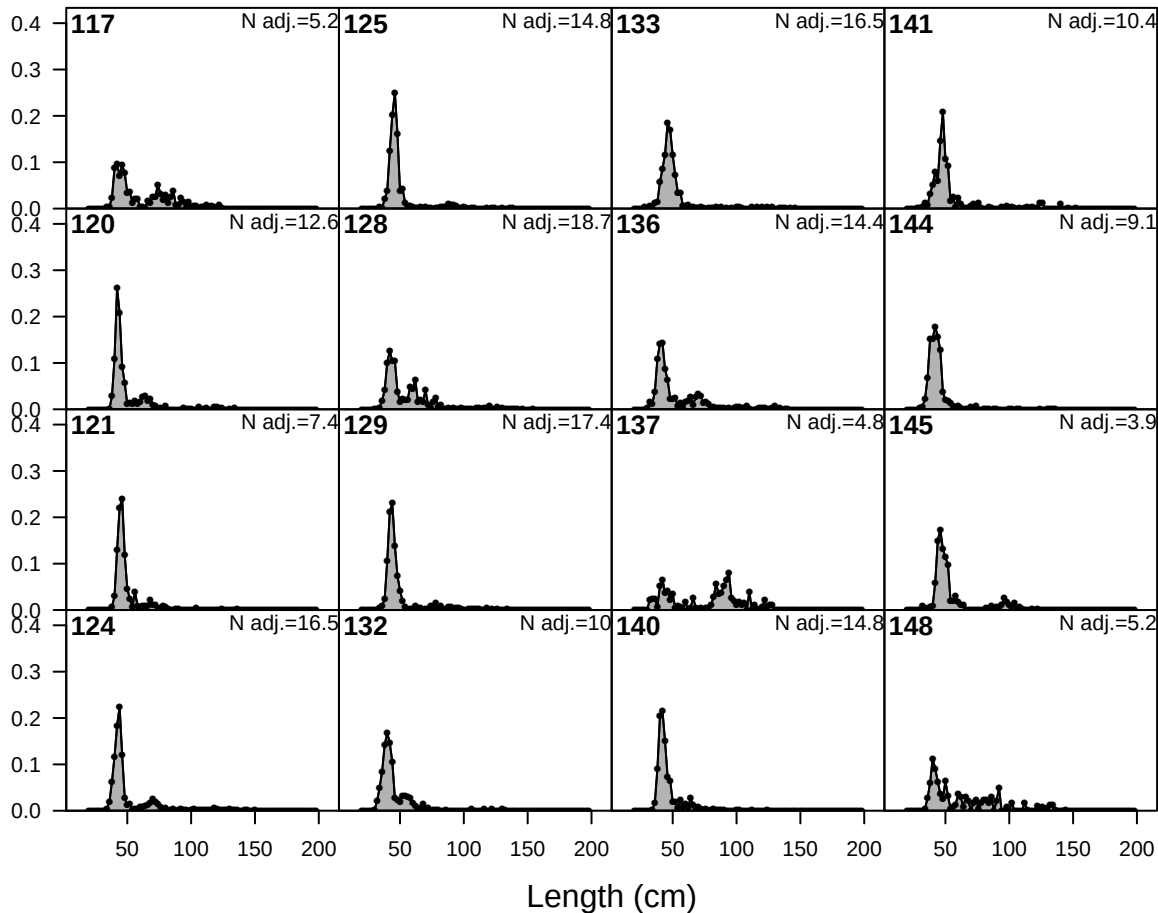
F2-OBJ\_Nc\_Q14 (whole catch)



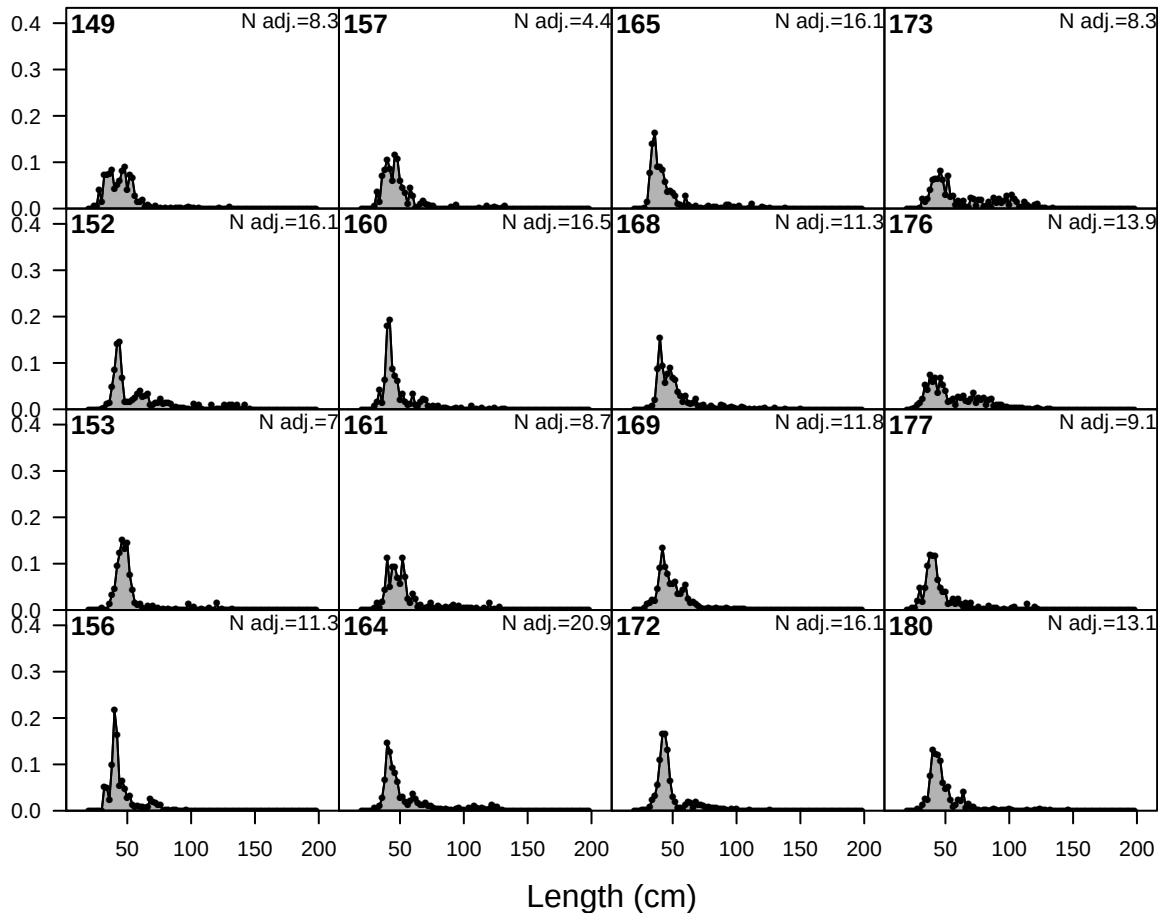
Proportion

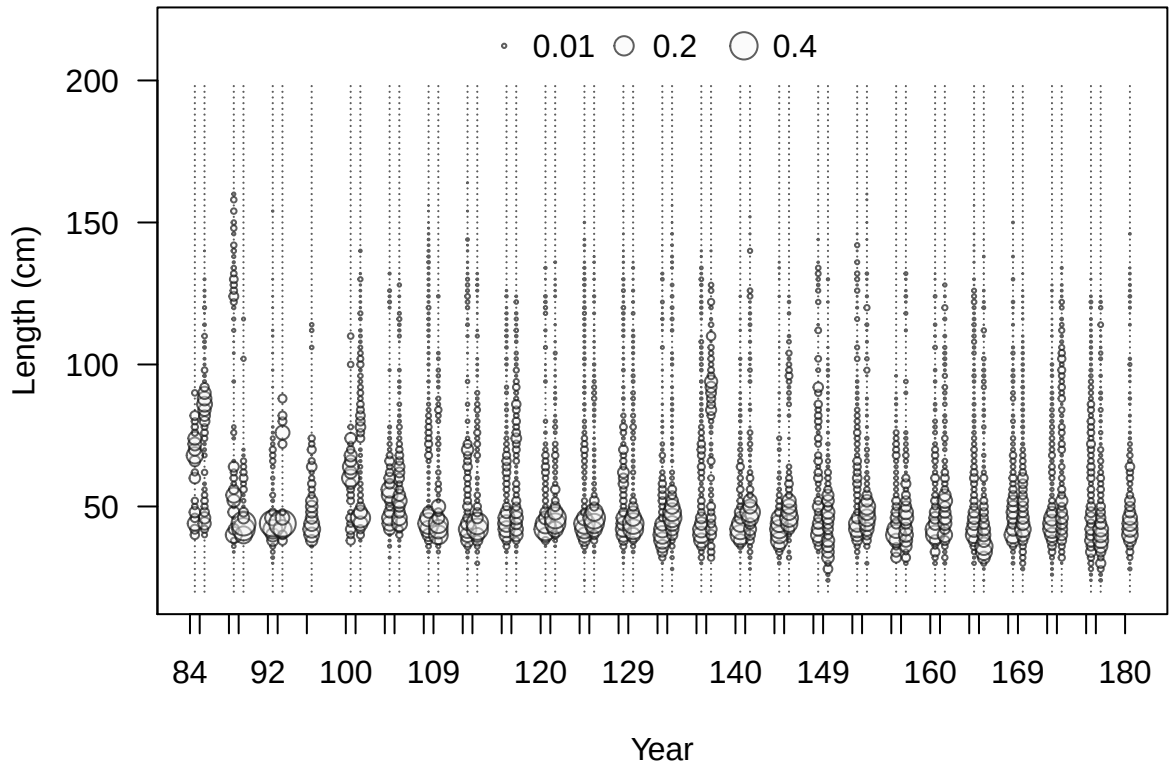


Proportion



Proportion



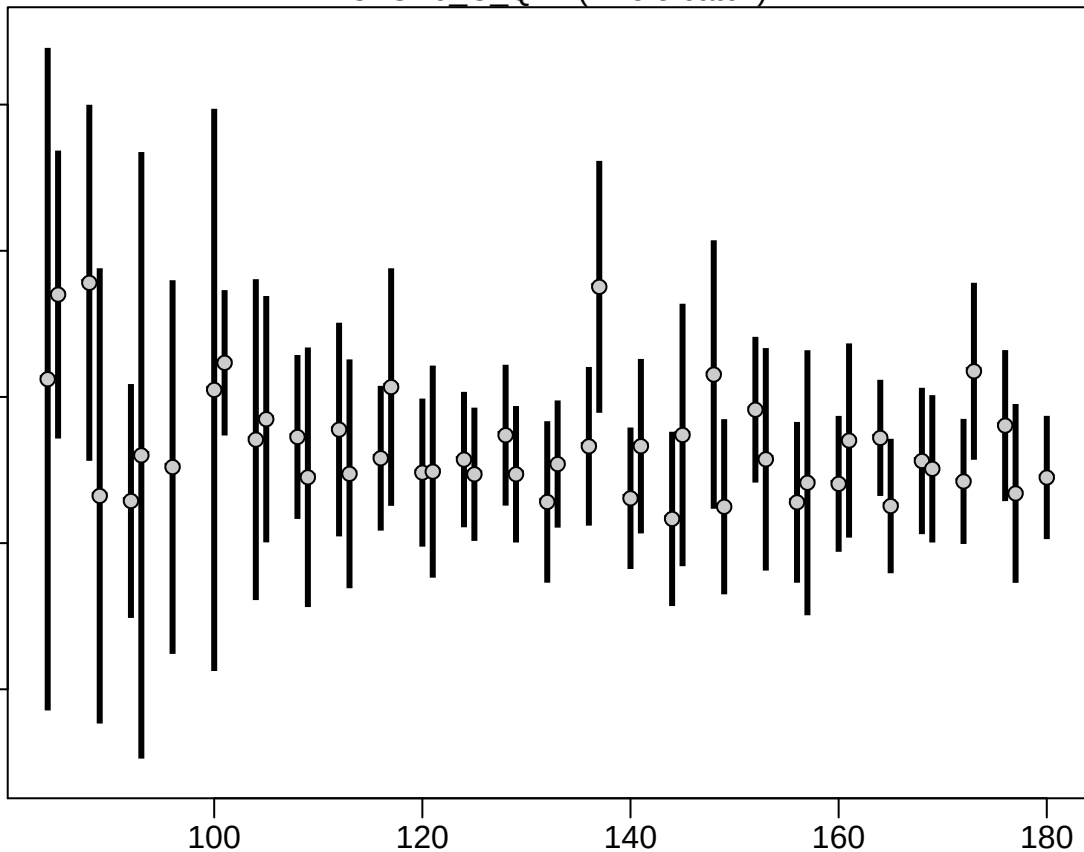


F3-OBJ\_C\_Q14 (whole catch)

Mean length

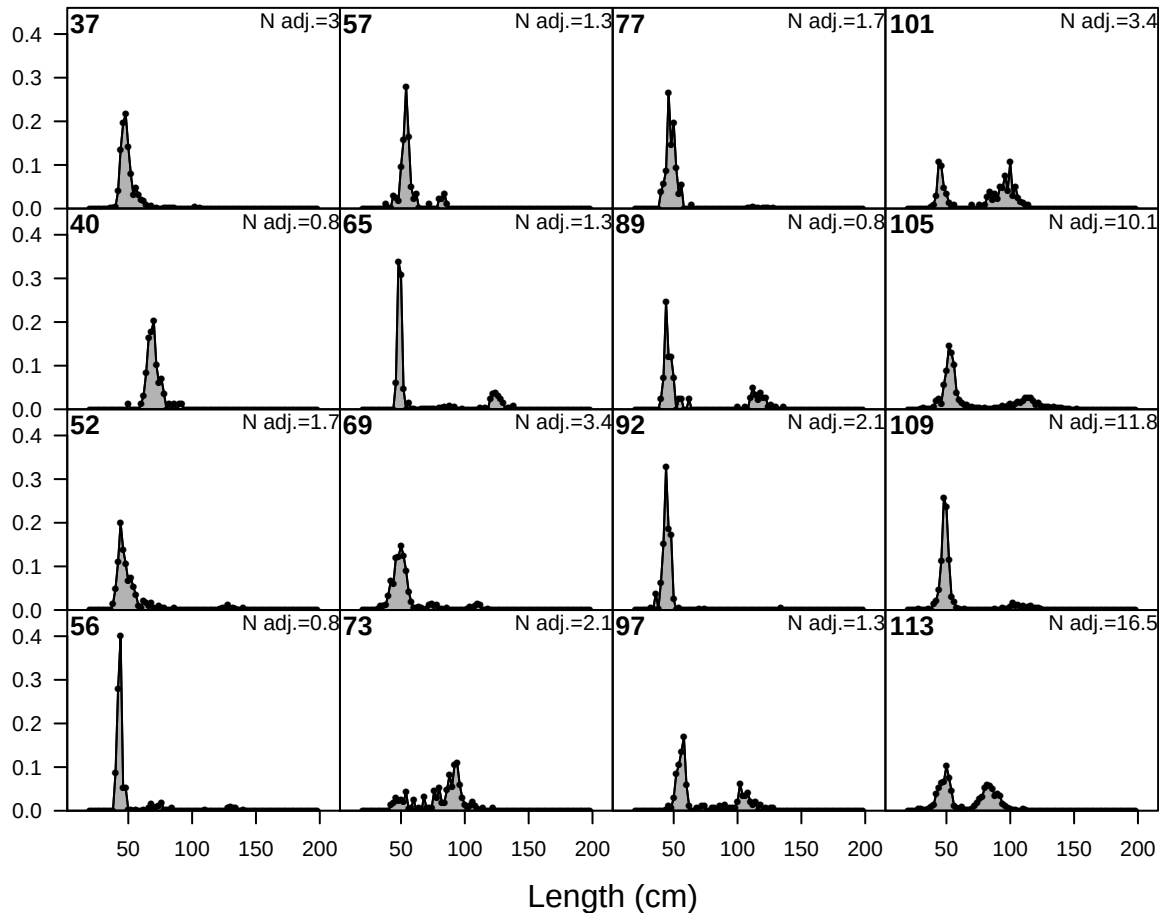
100  
80  
60  
40  
20

Year

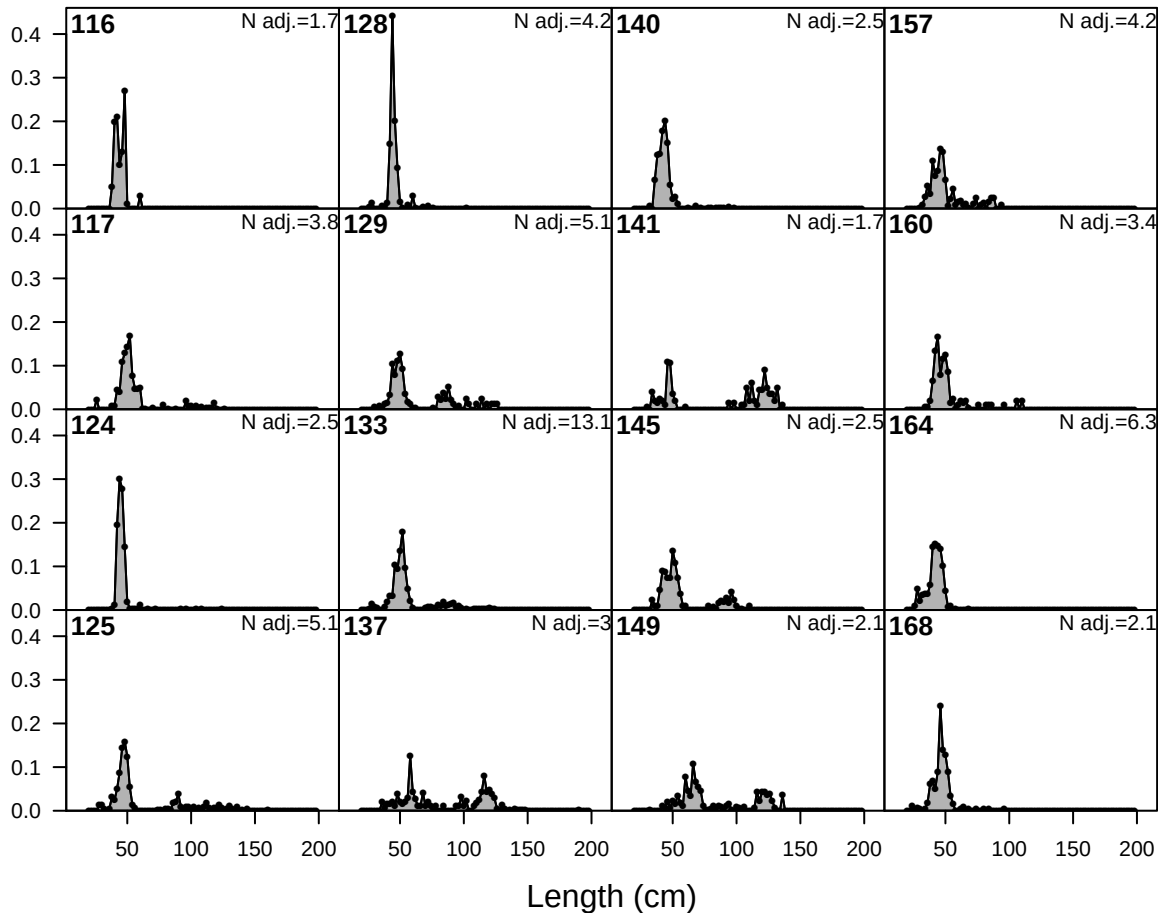




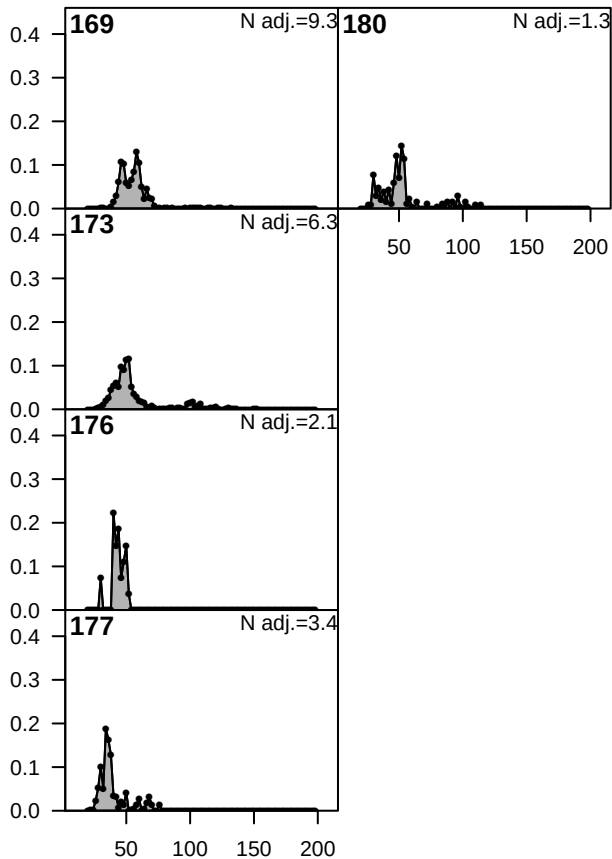
Proportion



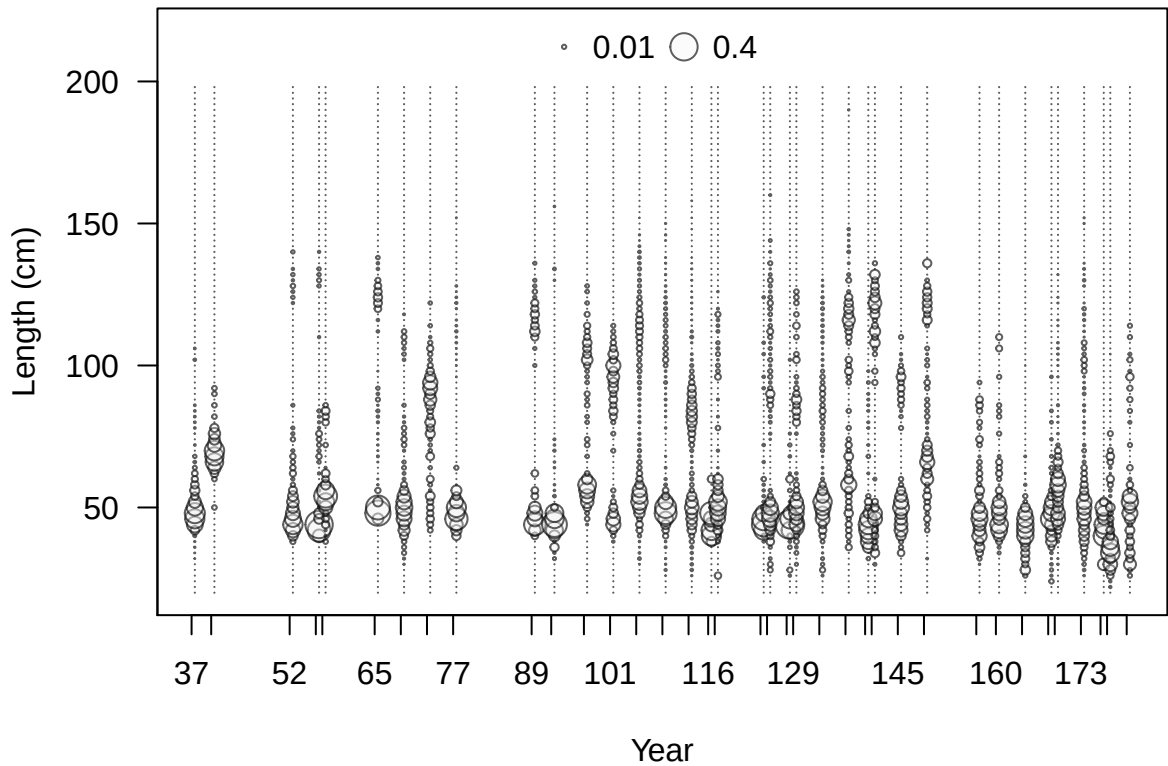
Proportion



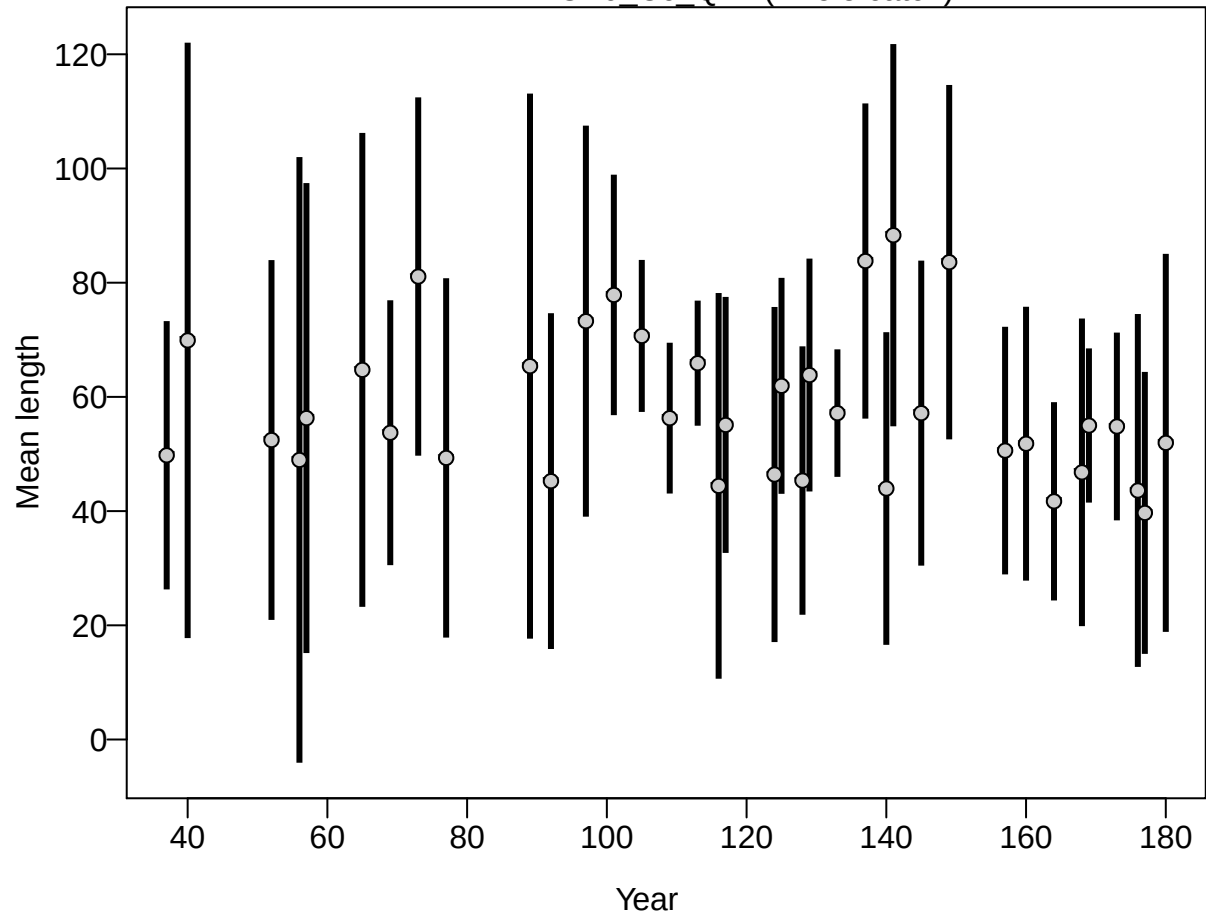
Proportion

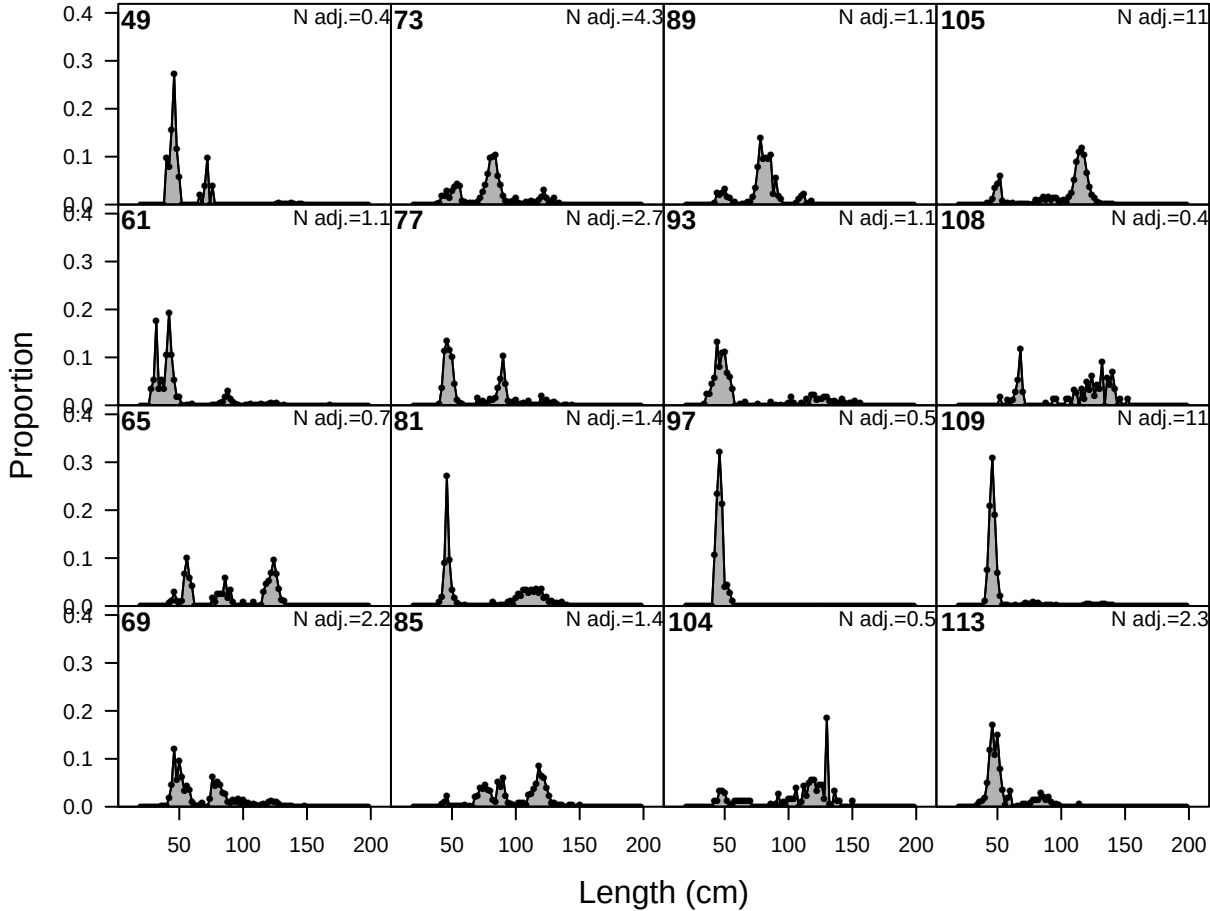


Length (cm)

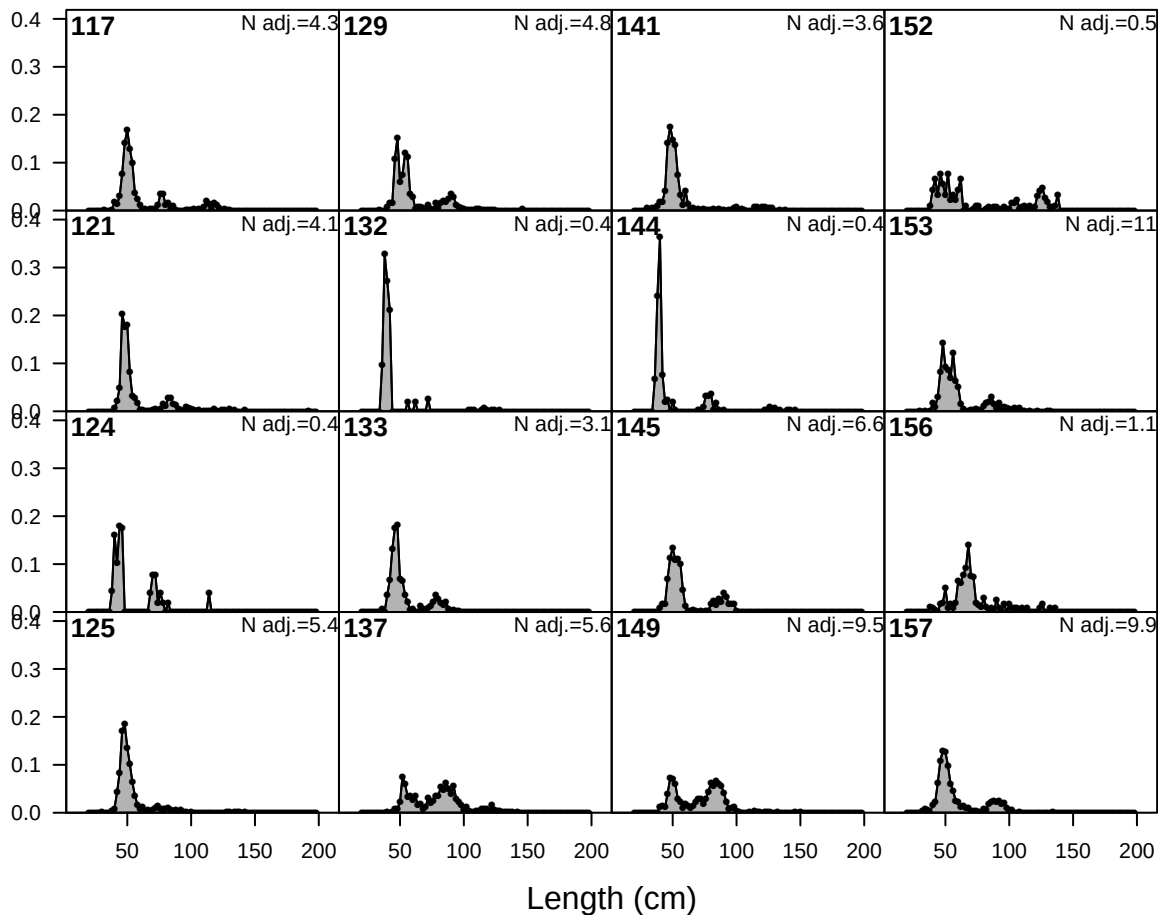


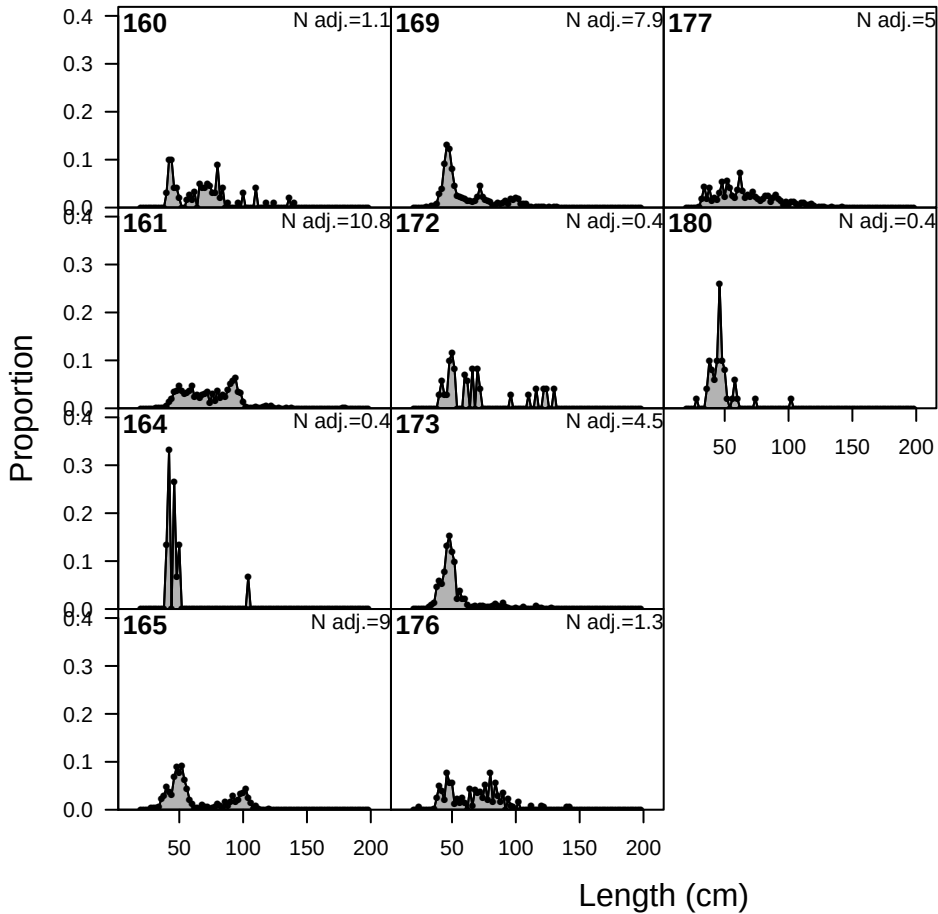
## F4-OBJ\_Cc\_Q14 (whole catch)



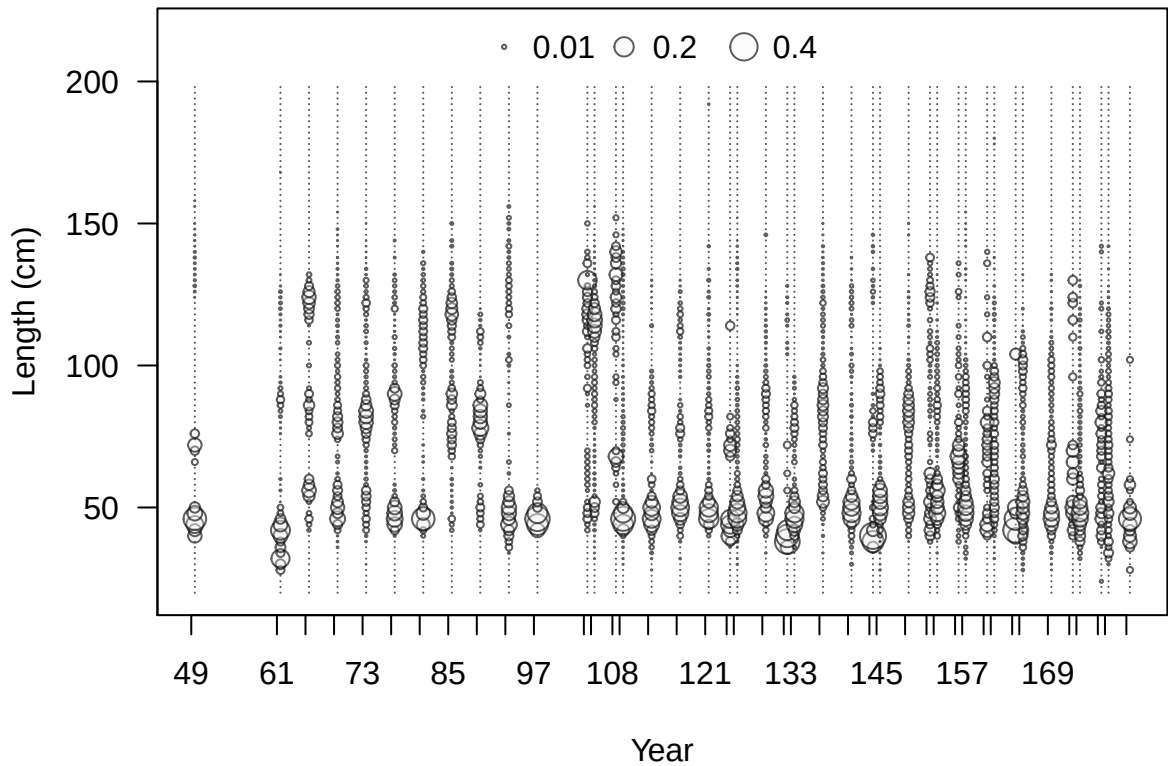


Proportion

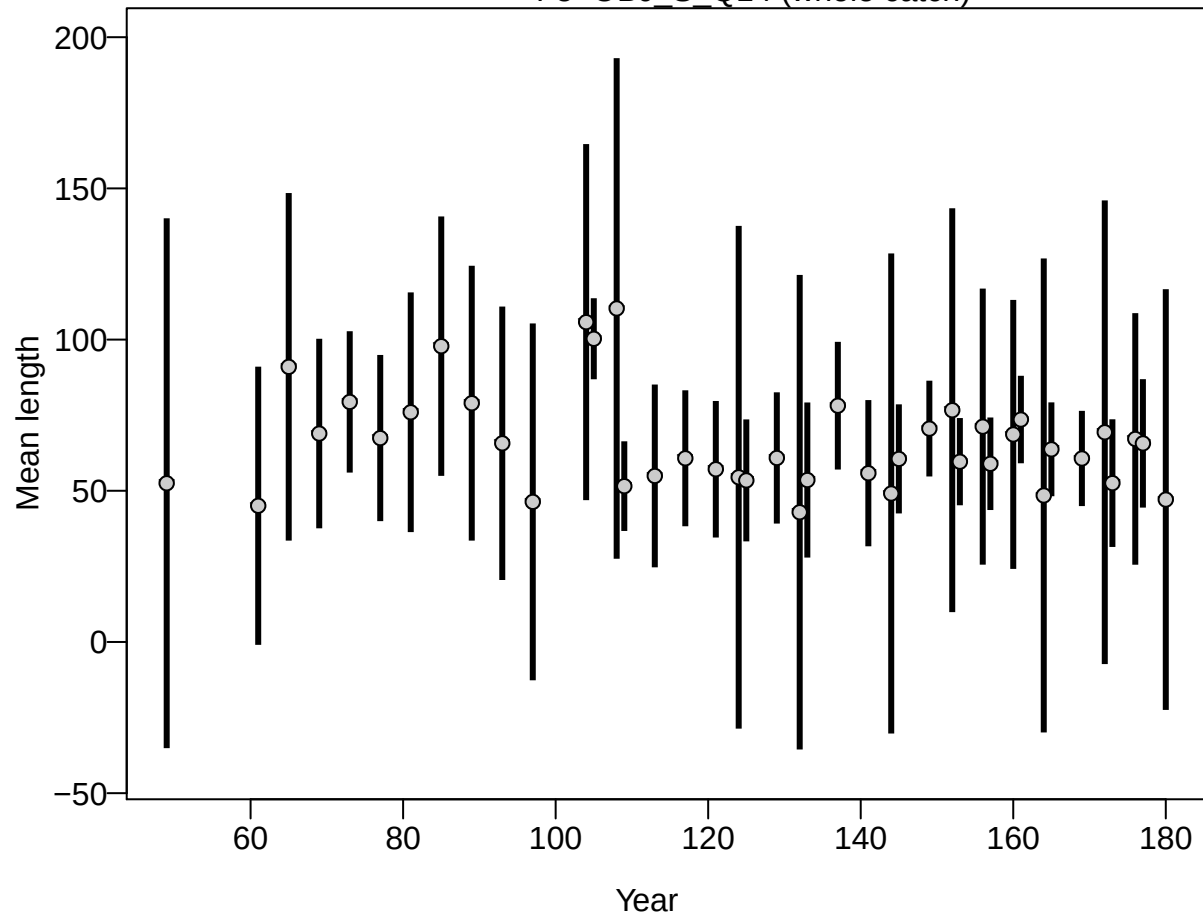




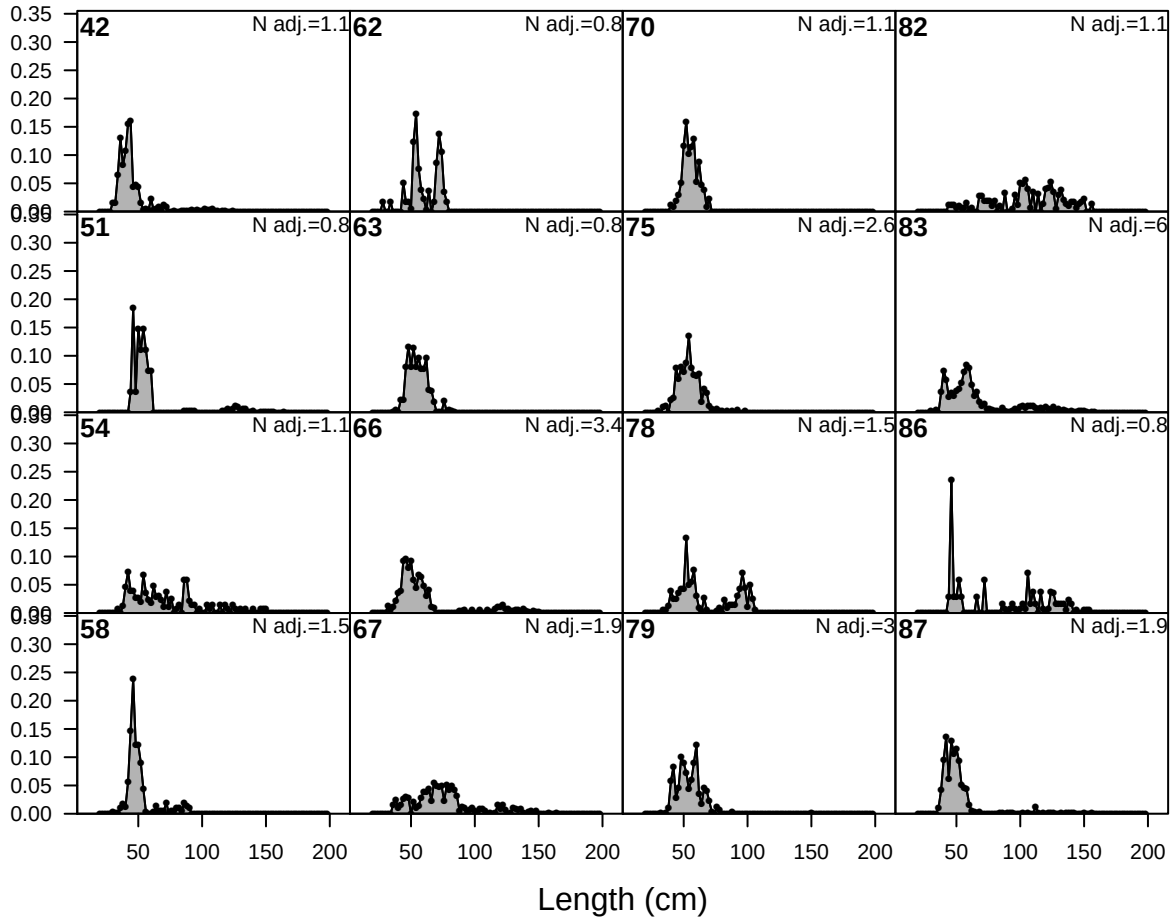


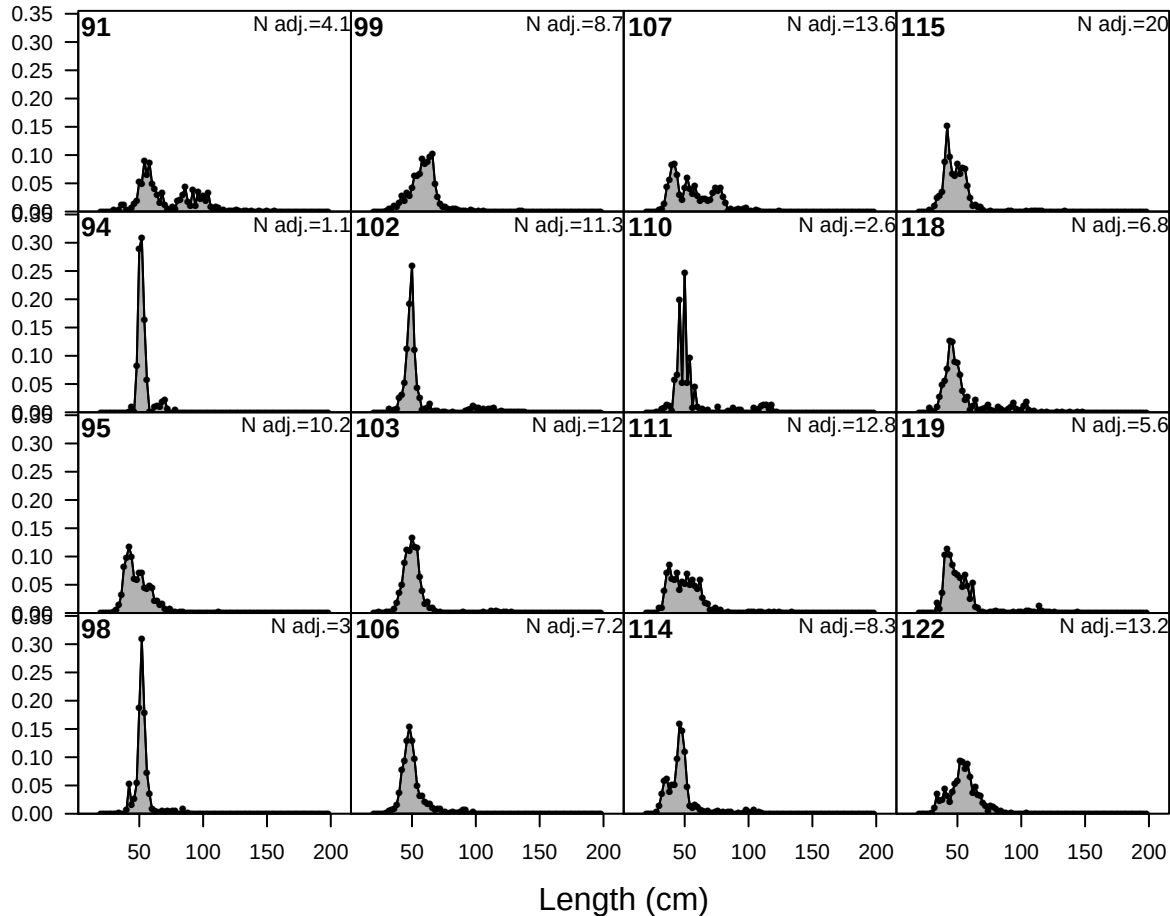


F5-OBJ S\_Q14 (whole catch)

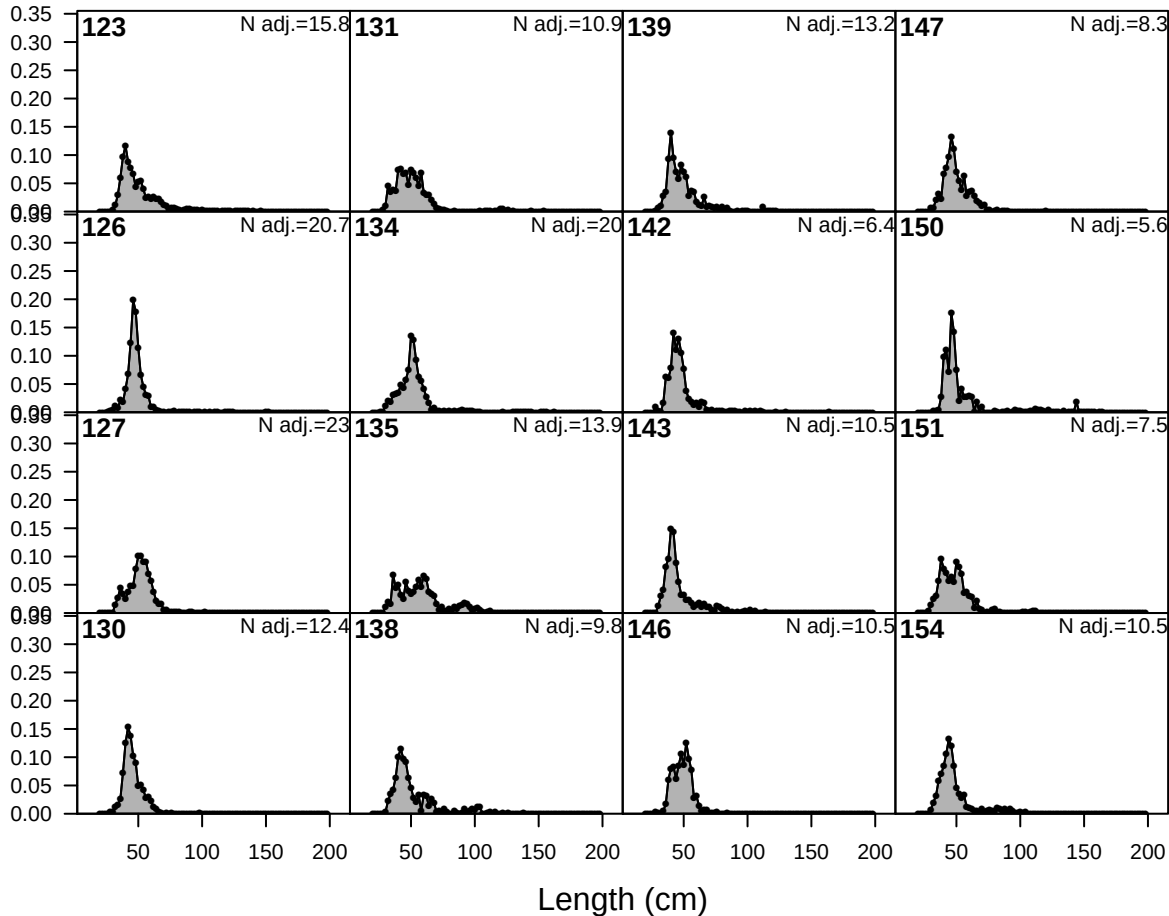


Proportion

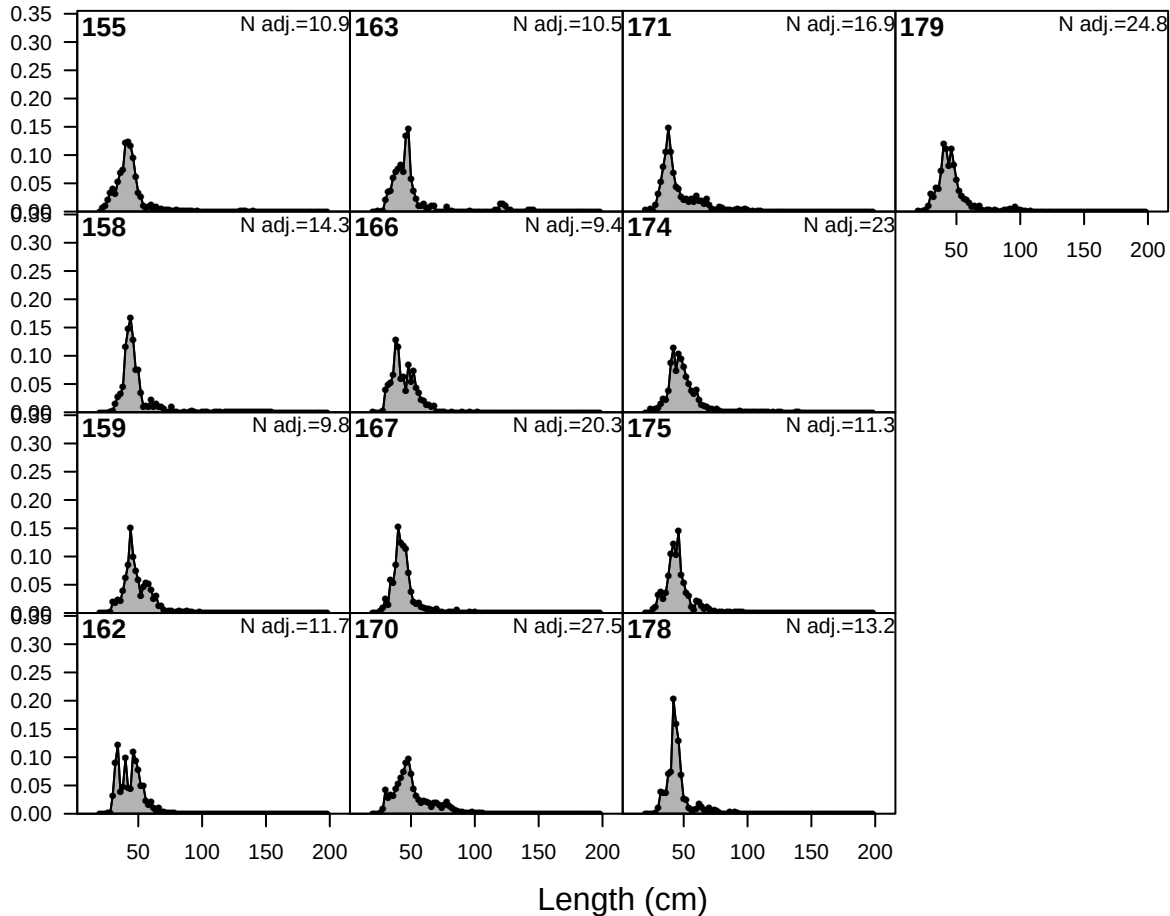


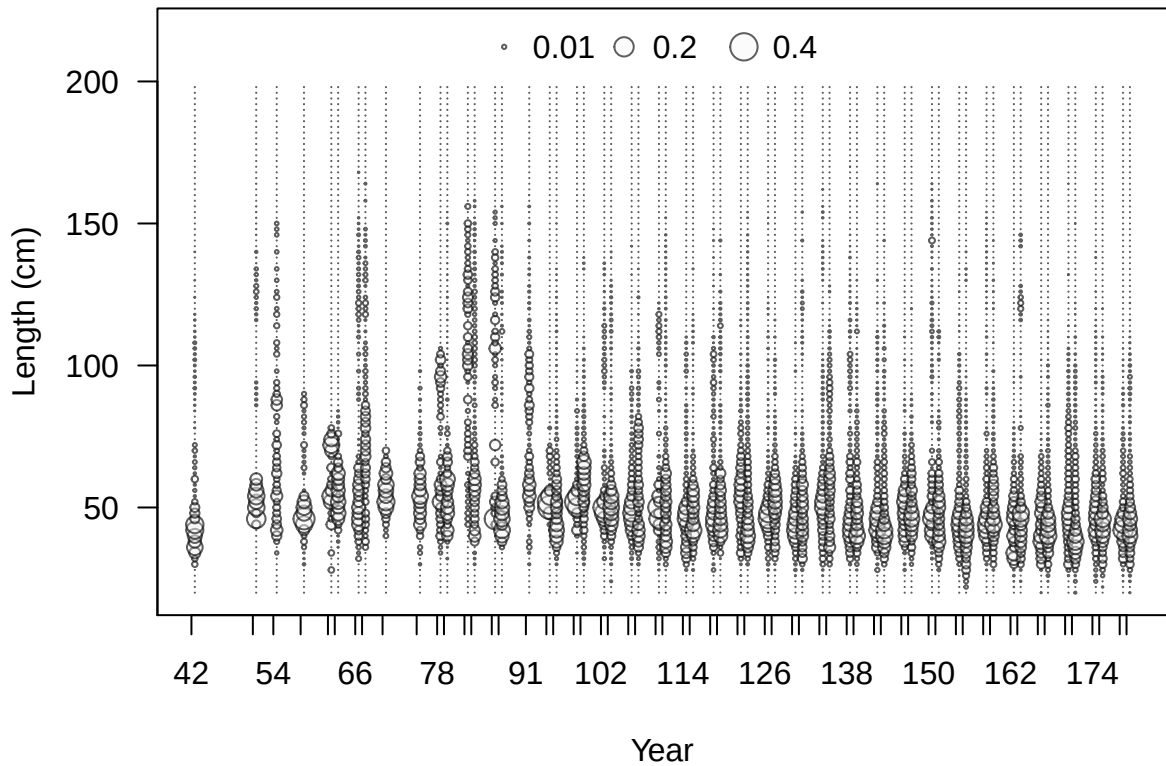


Proportion

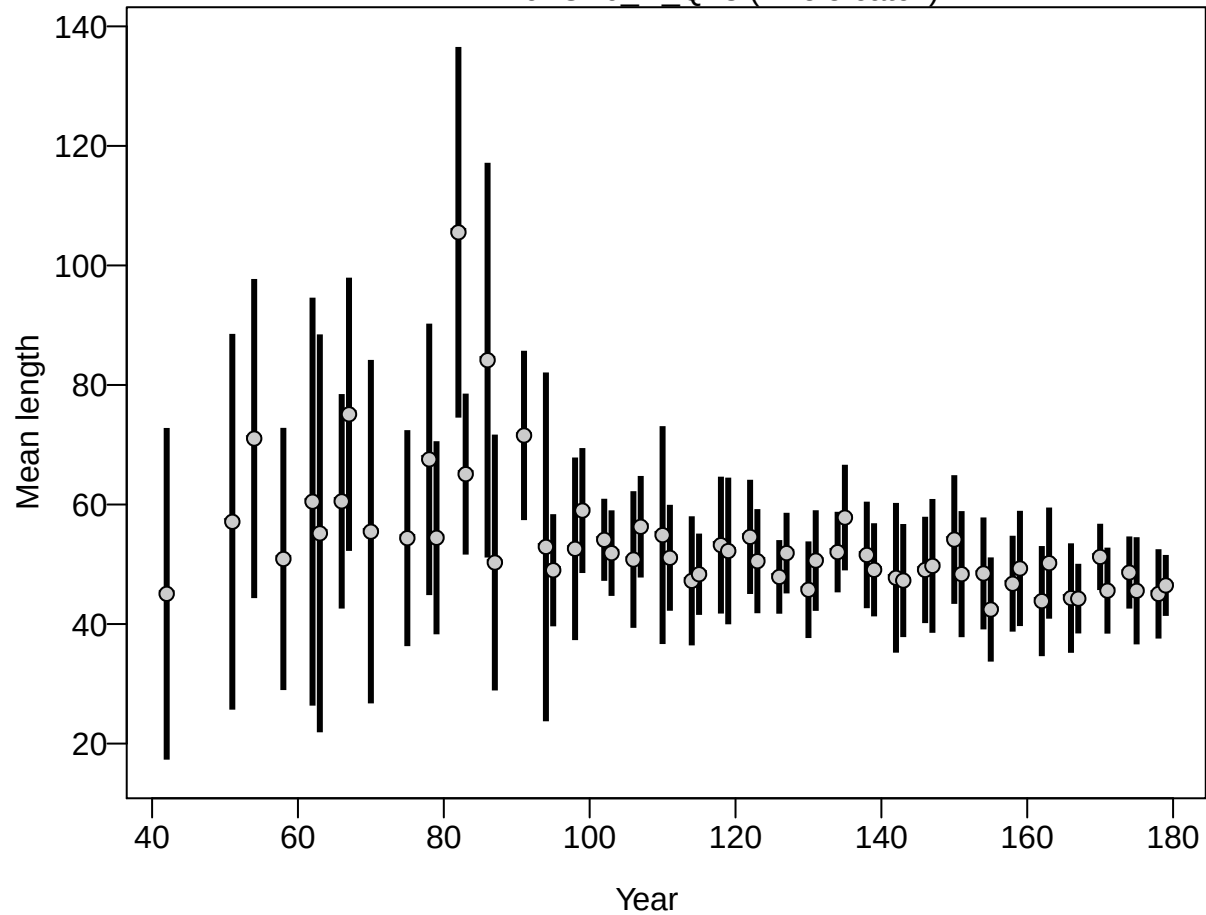


Proportion



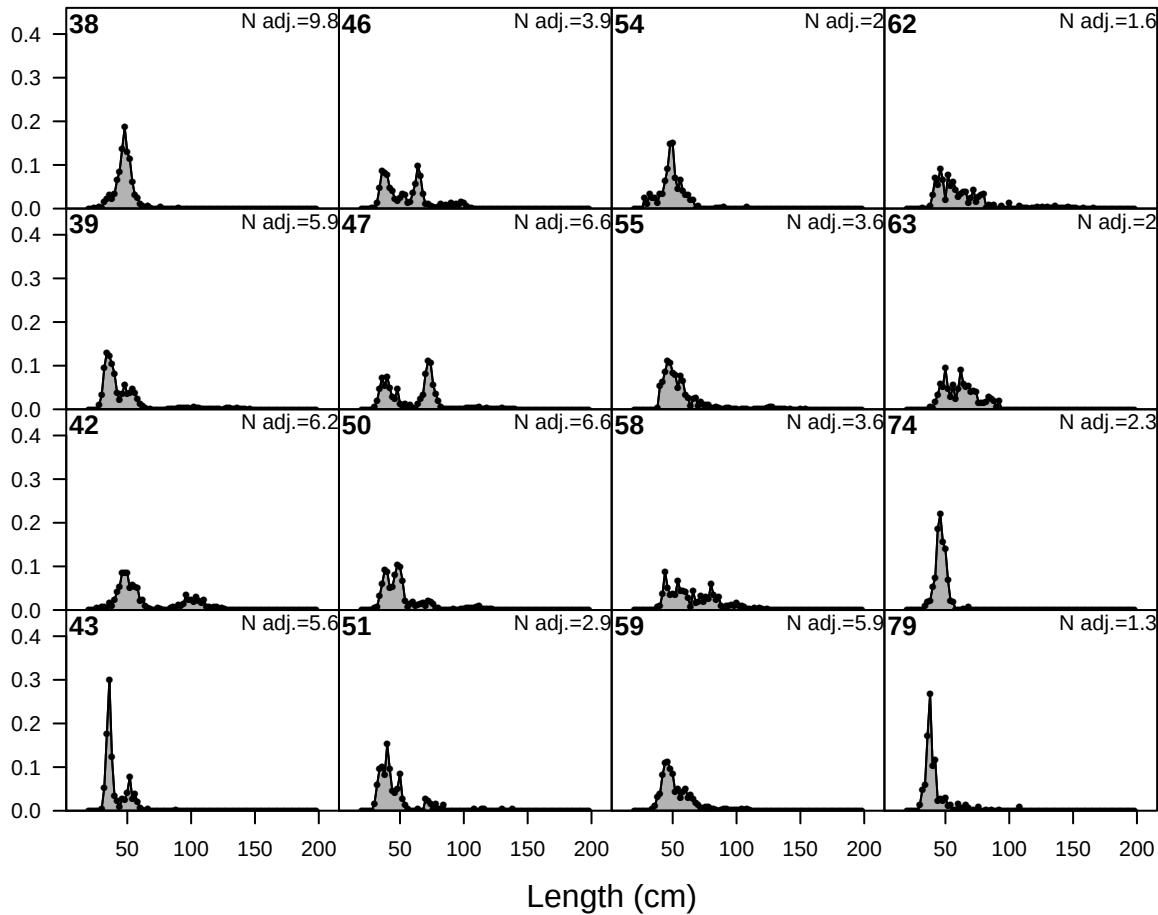


F6-OBJ\_N\_Q23 (whole catch)

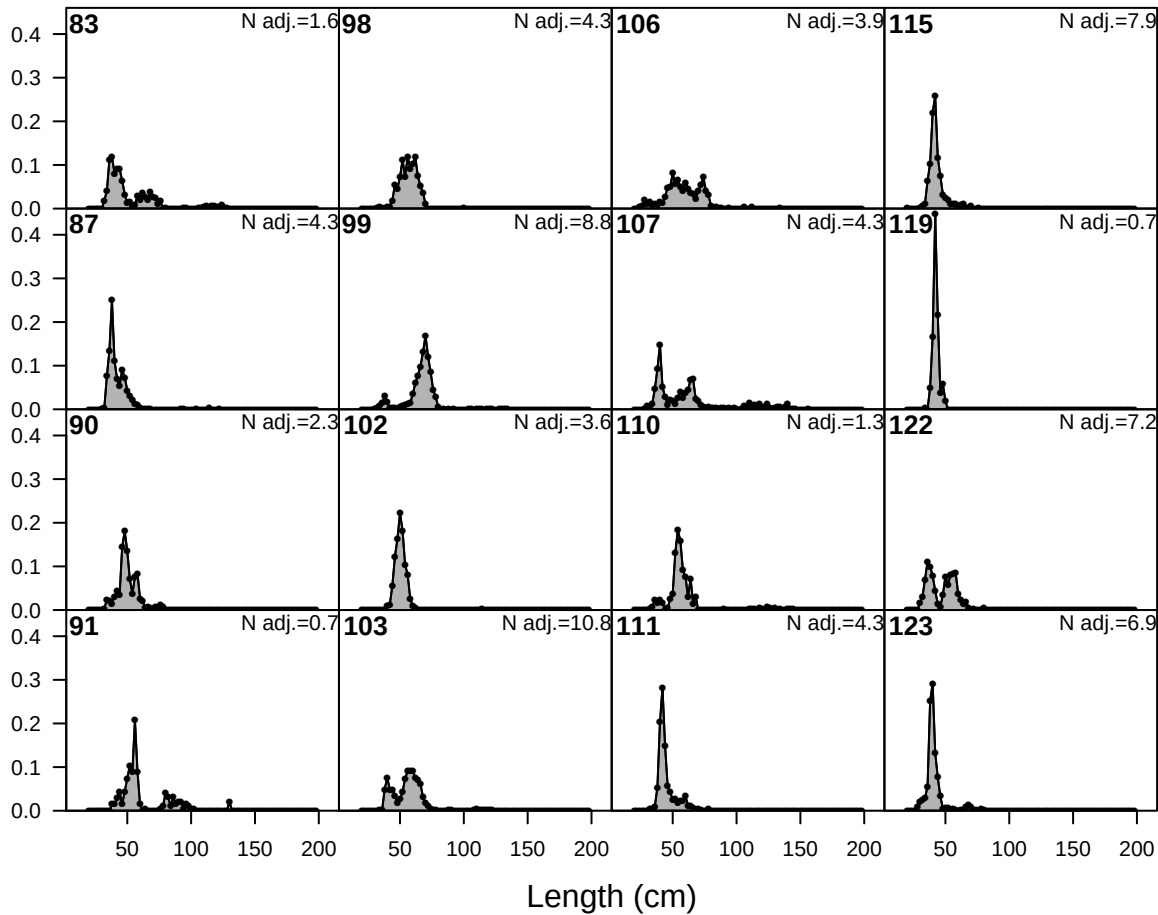




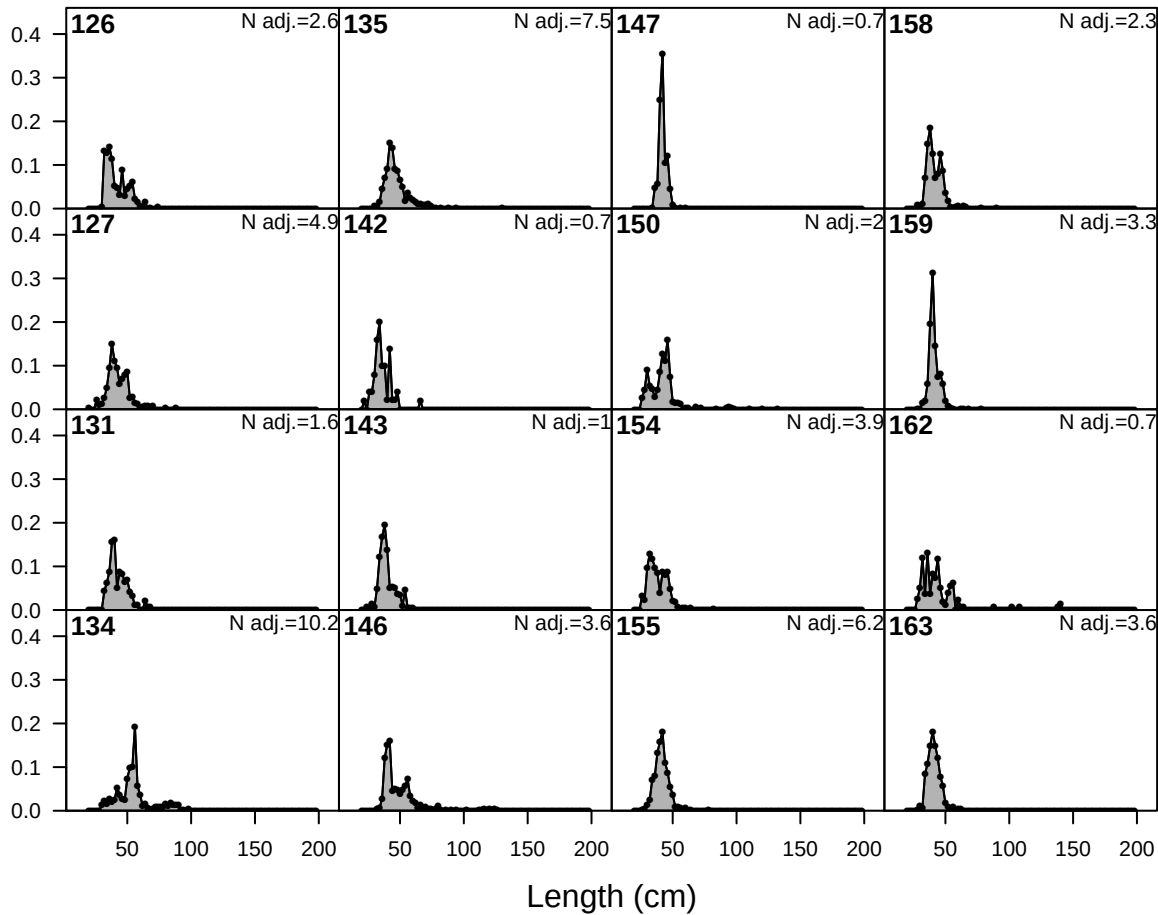
Proportion



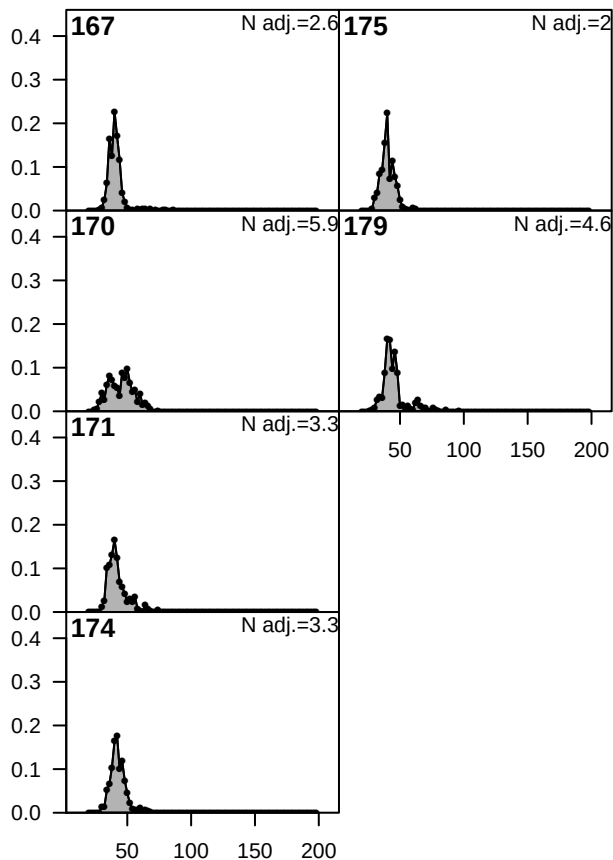
Proportion



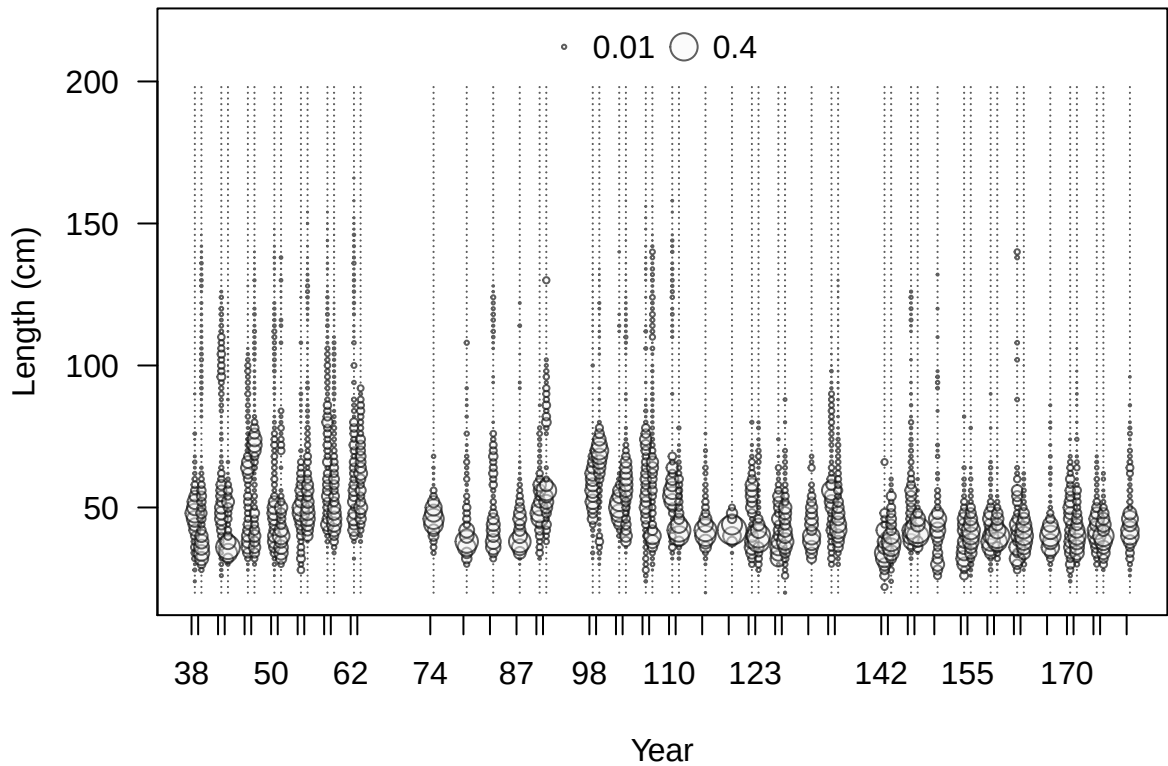
Proportion



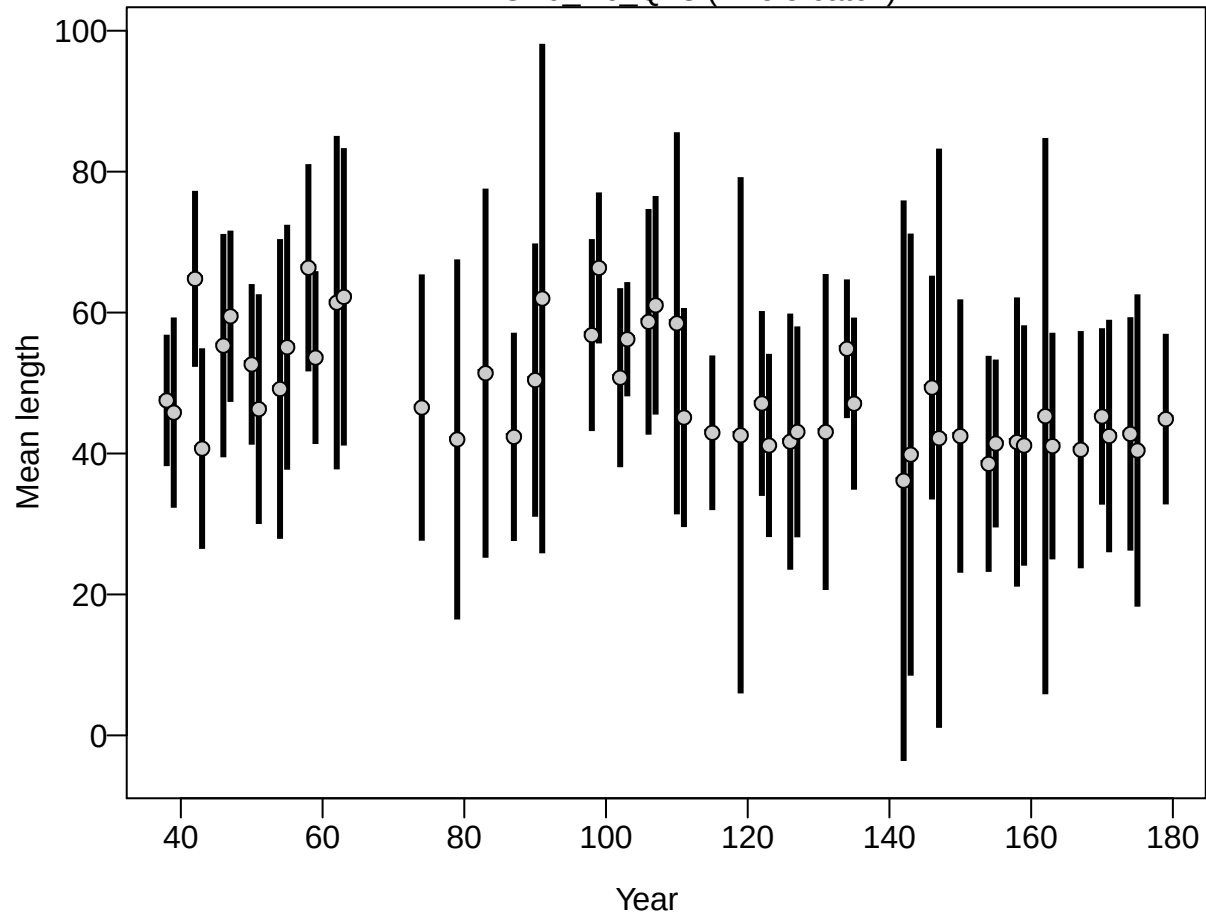
Proportion



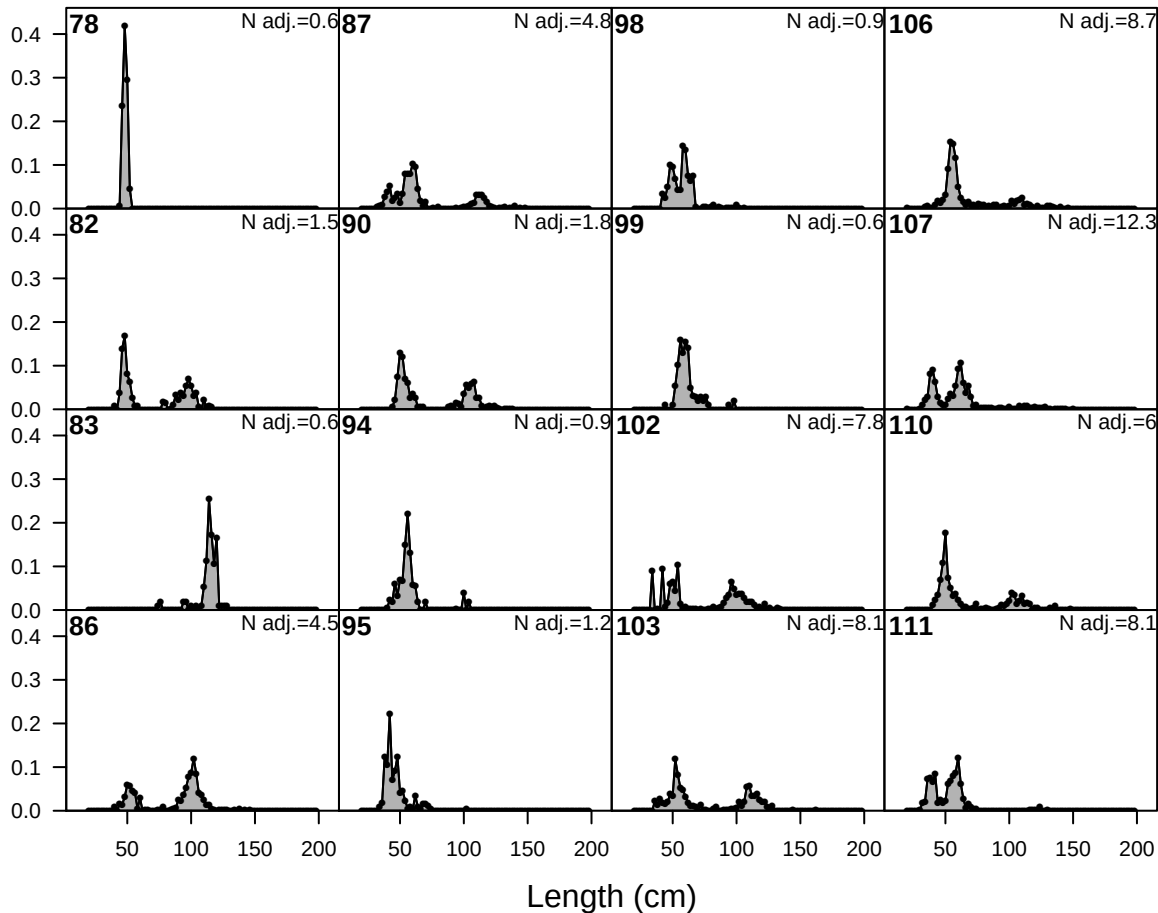
Length (cm)



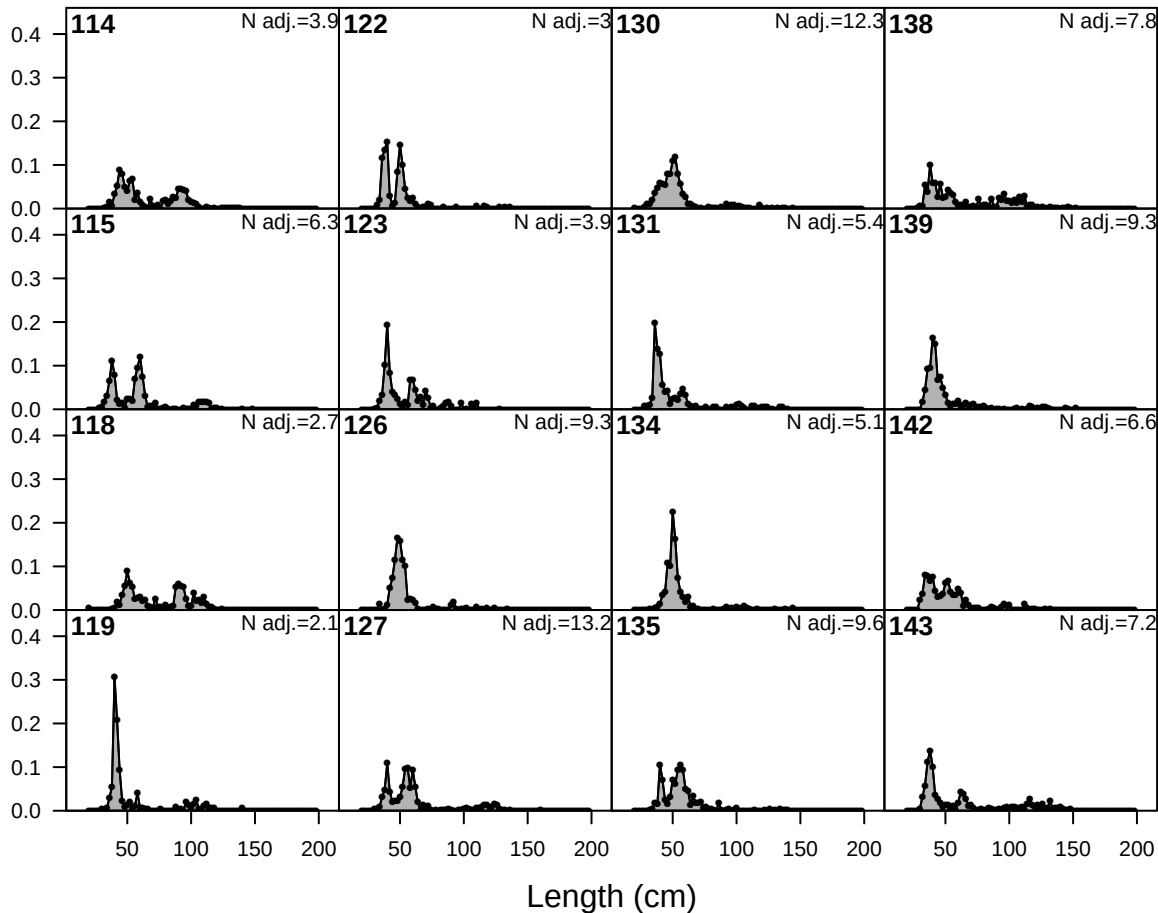
F7-OBJ Nc Q23 (whole catch)



Proportion

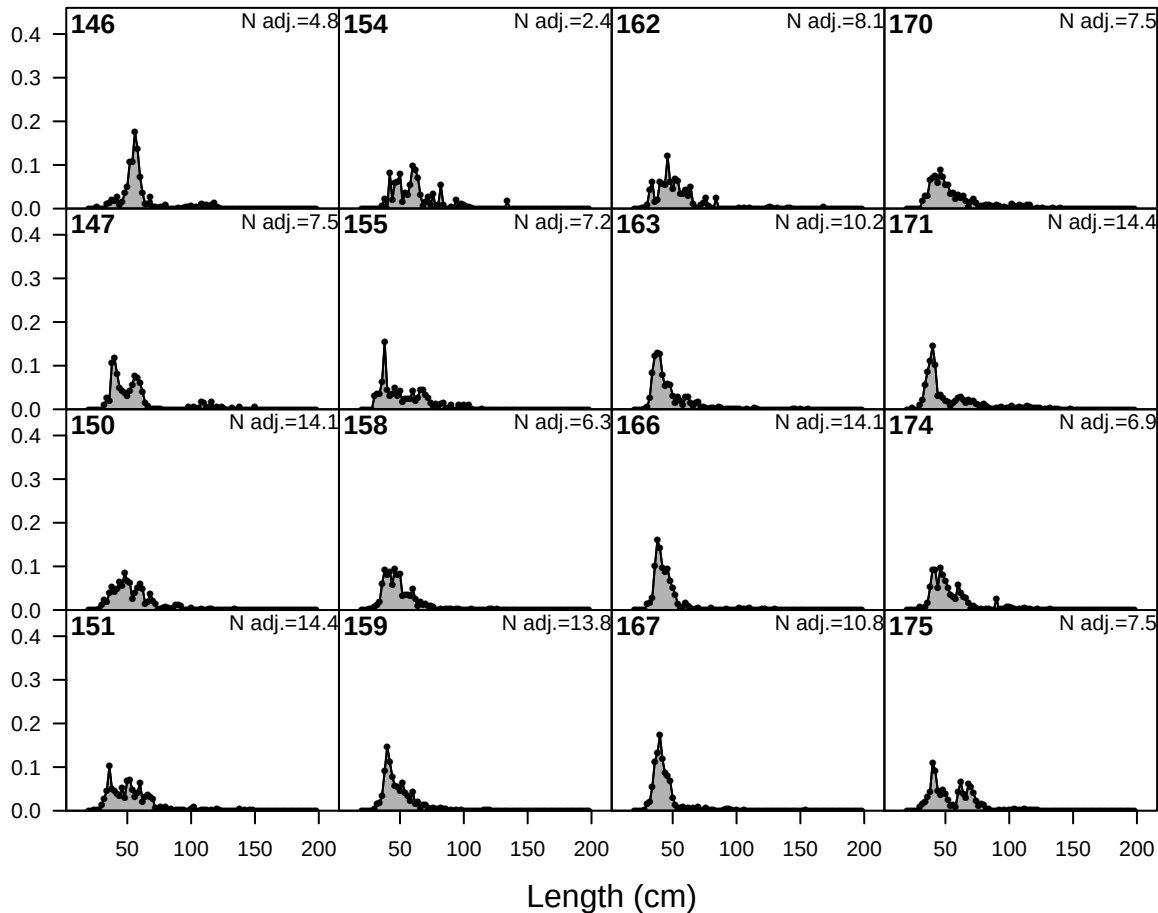


Proportion

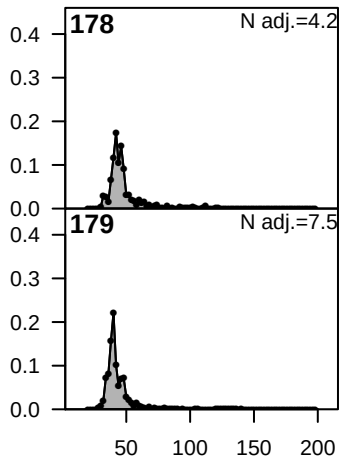




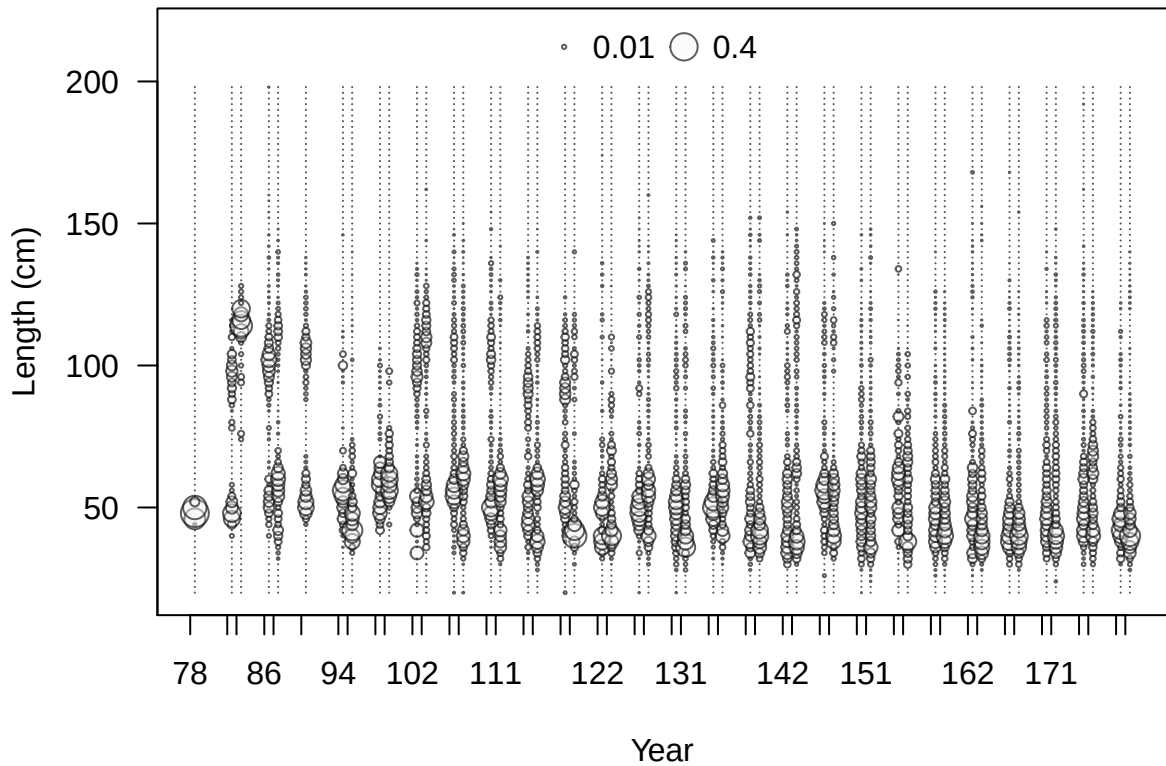
Proportion



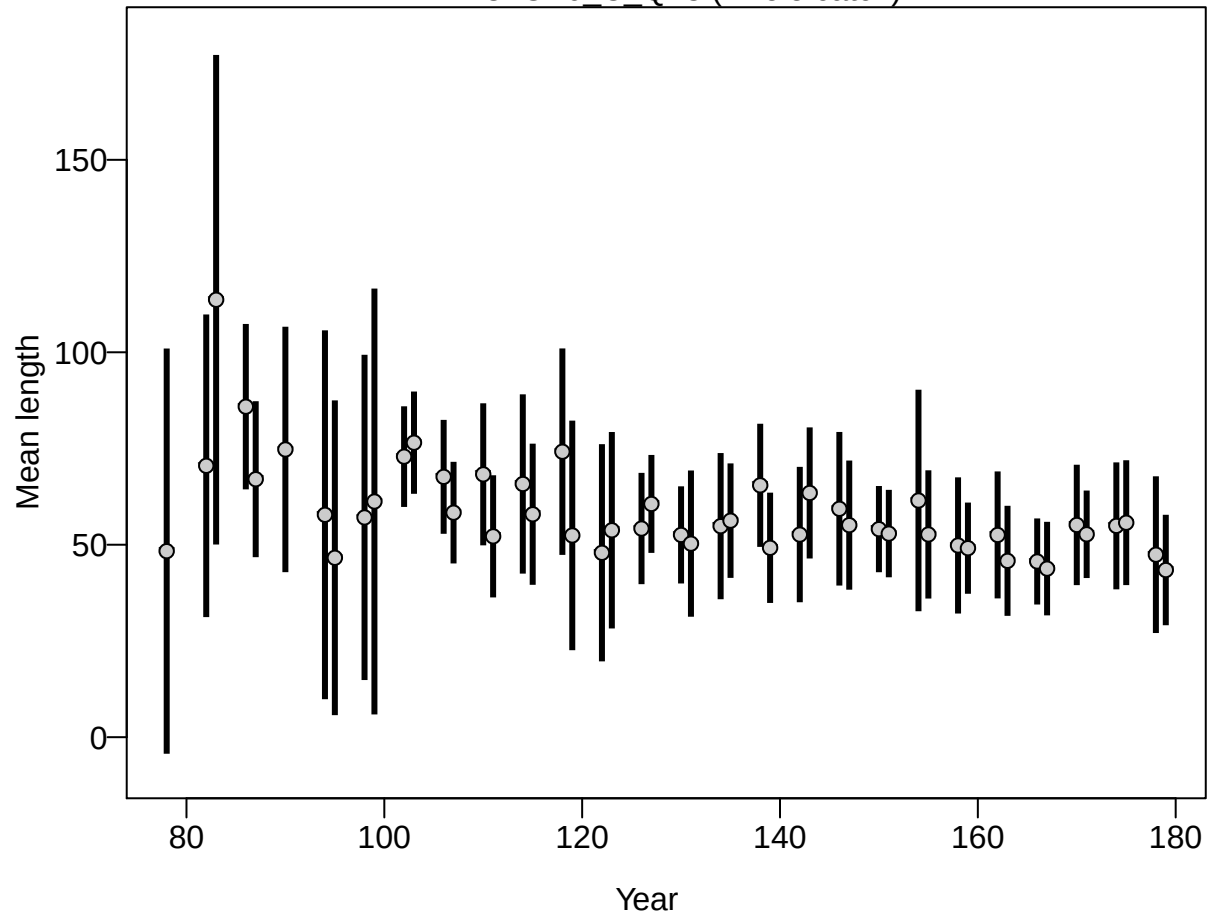
Proportion

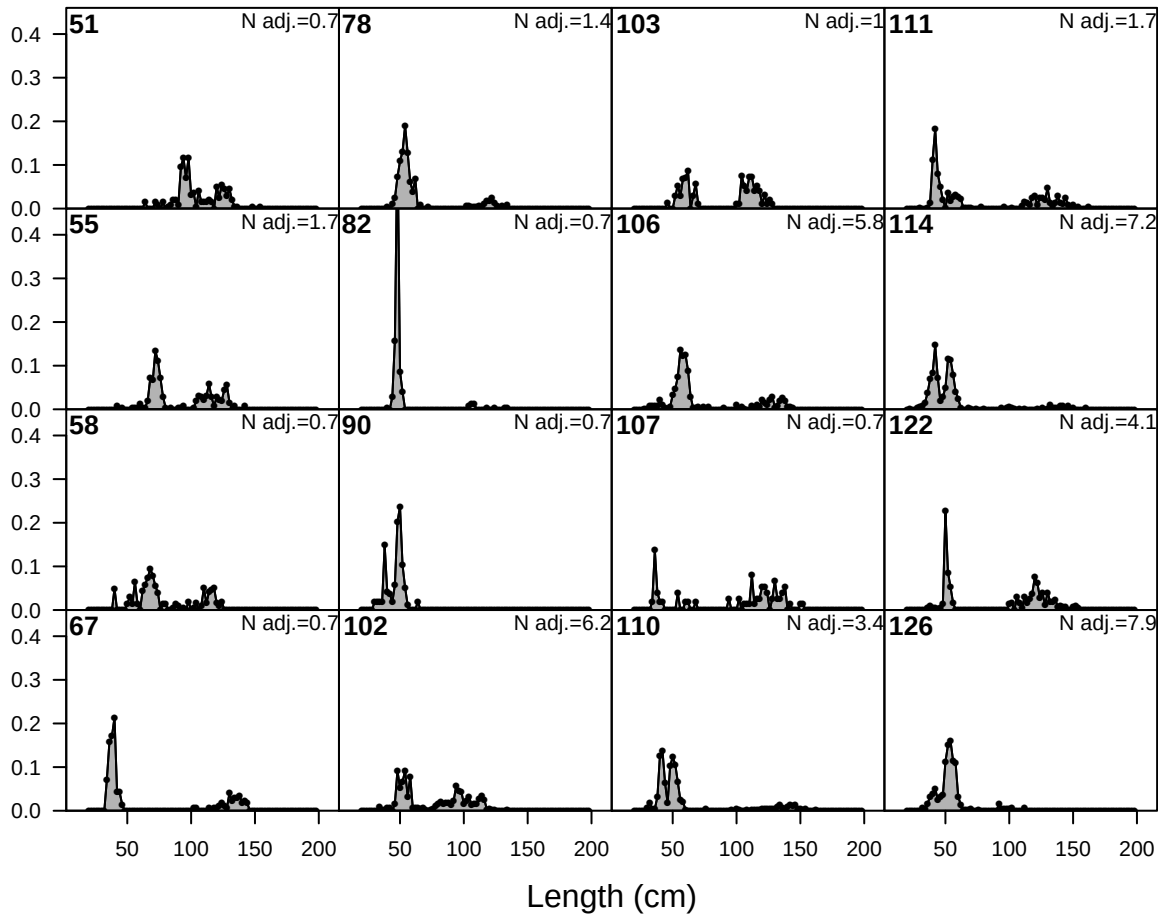


Length (cm)

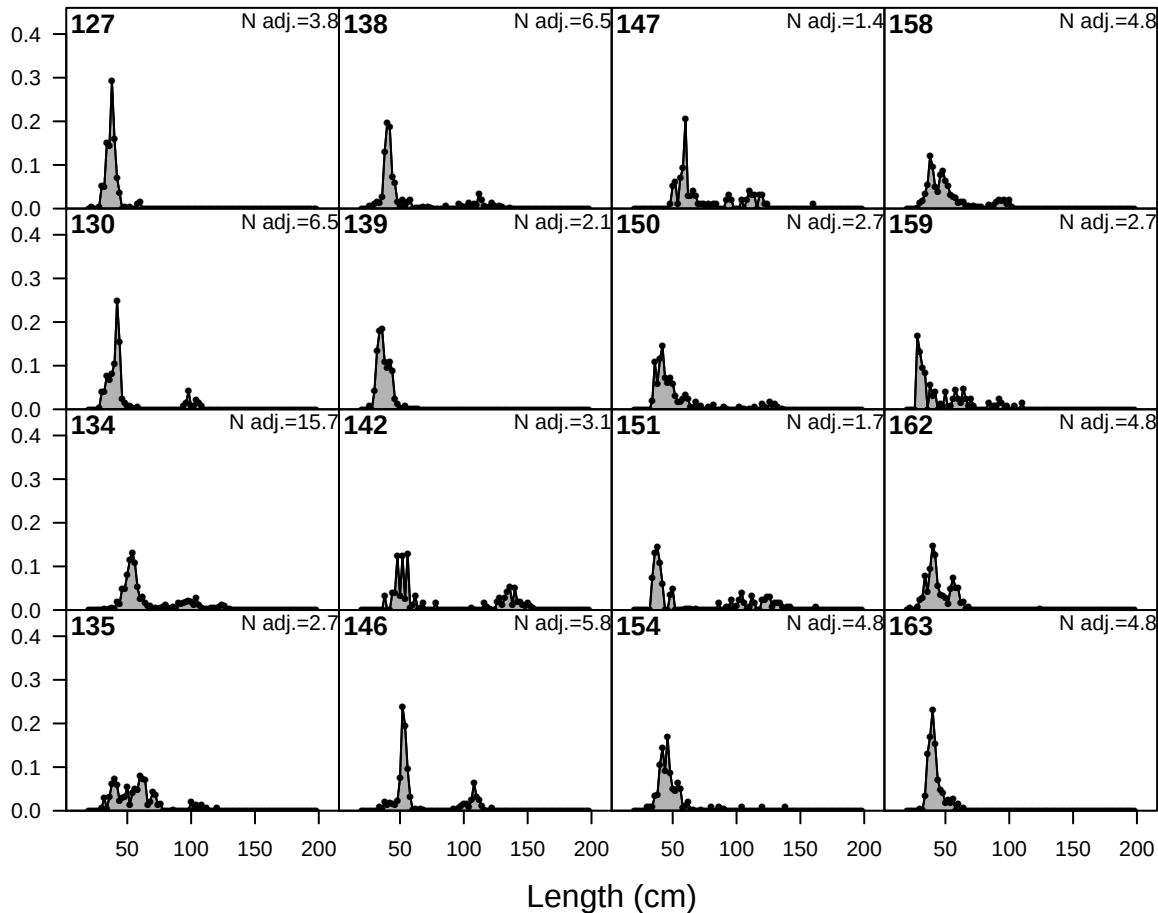


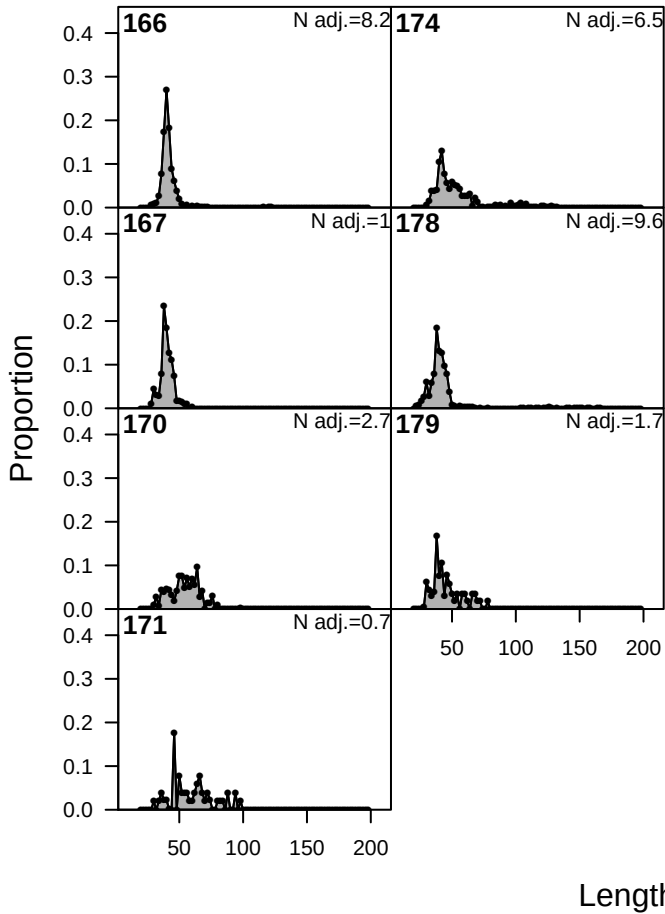
F8-OBJ\_C\_Q23 (whole catch)

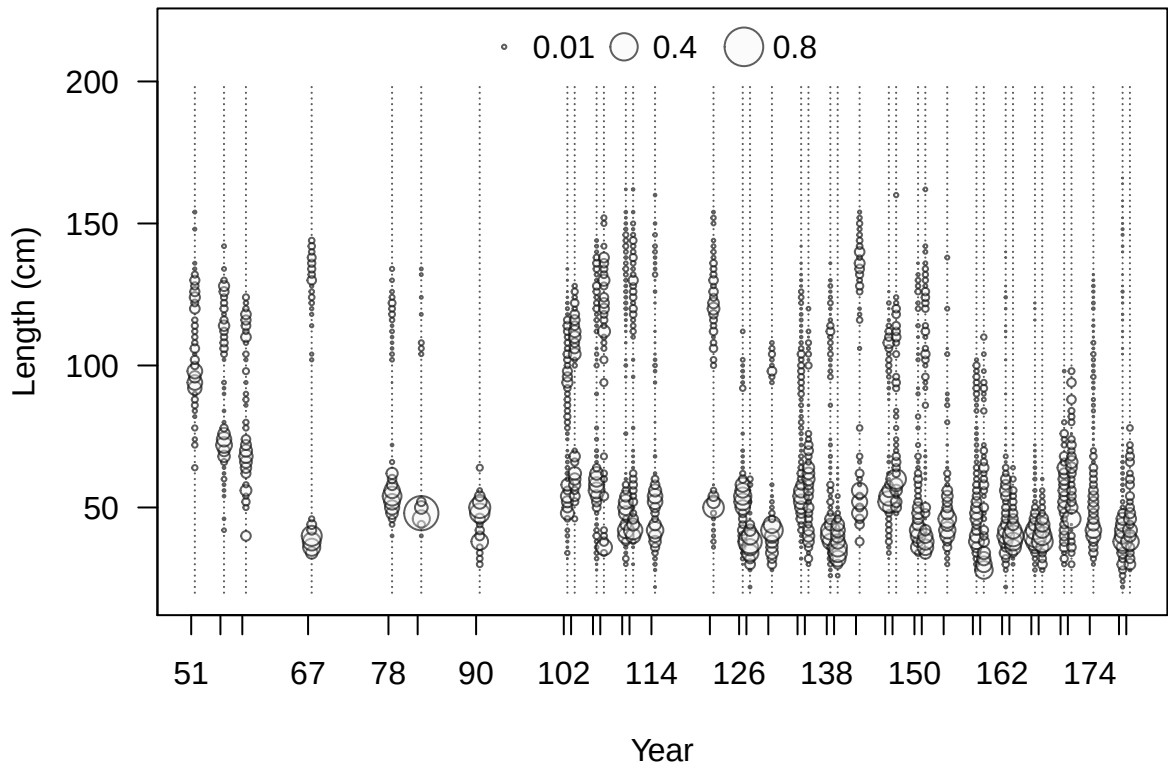




Proportion

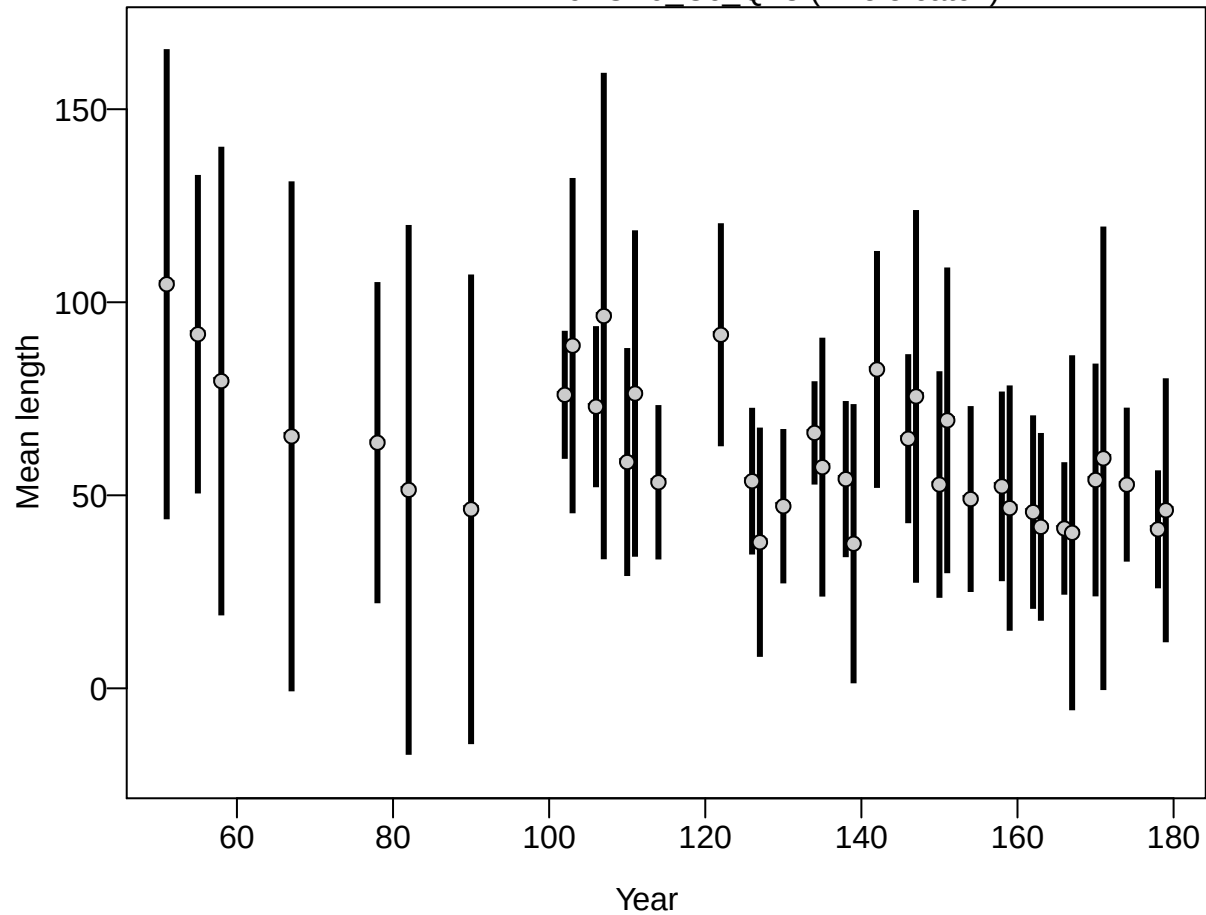




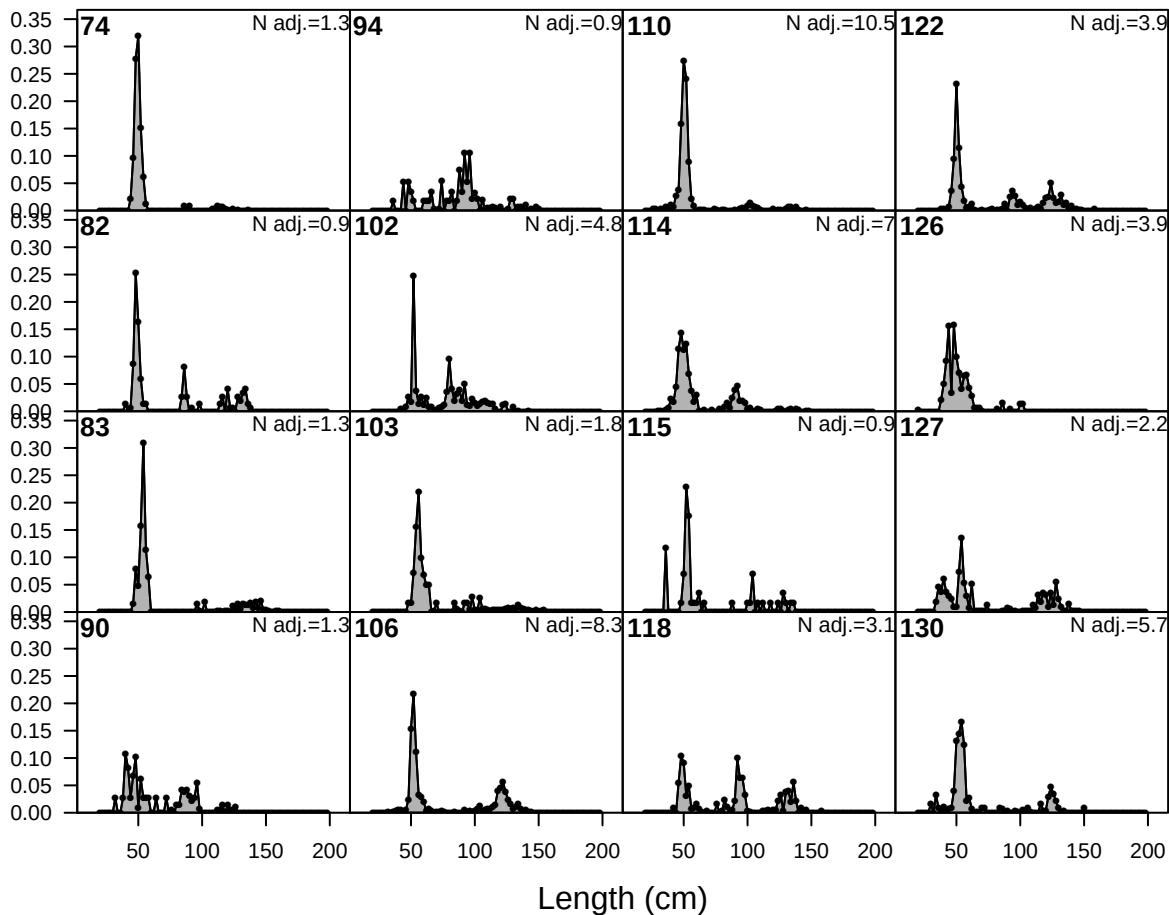




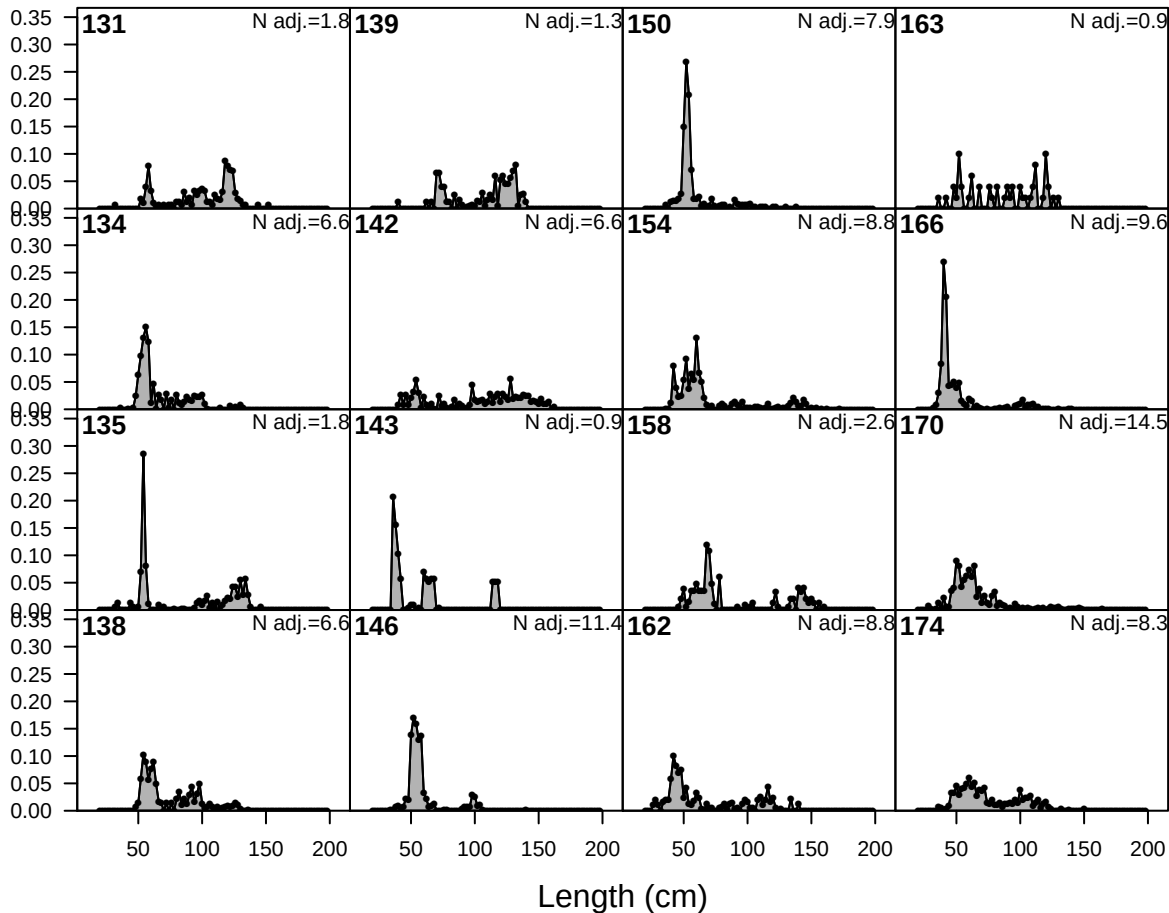
F9-OBJ Cc Q23 (whole catch)



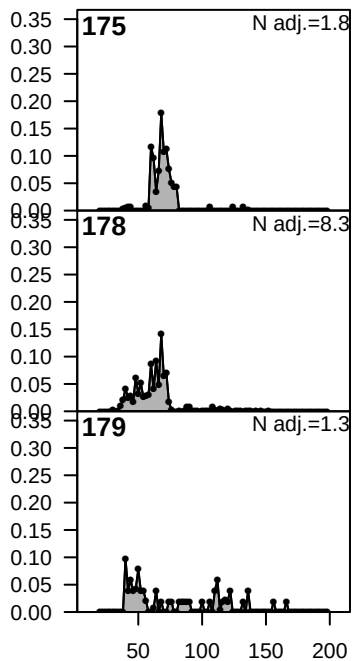
Proportion

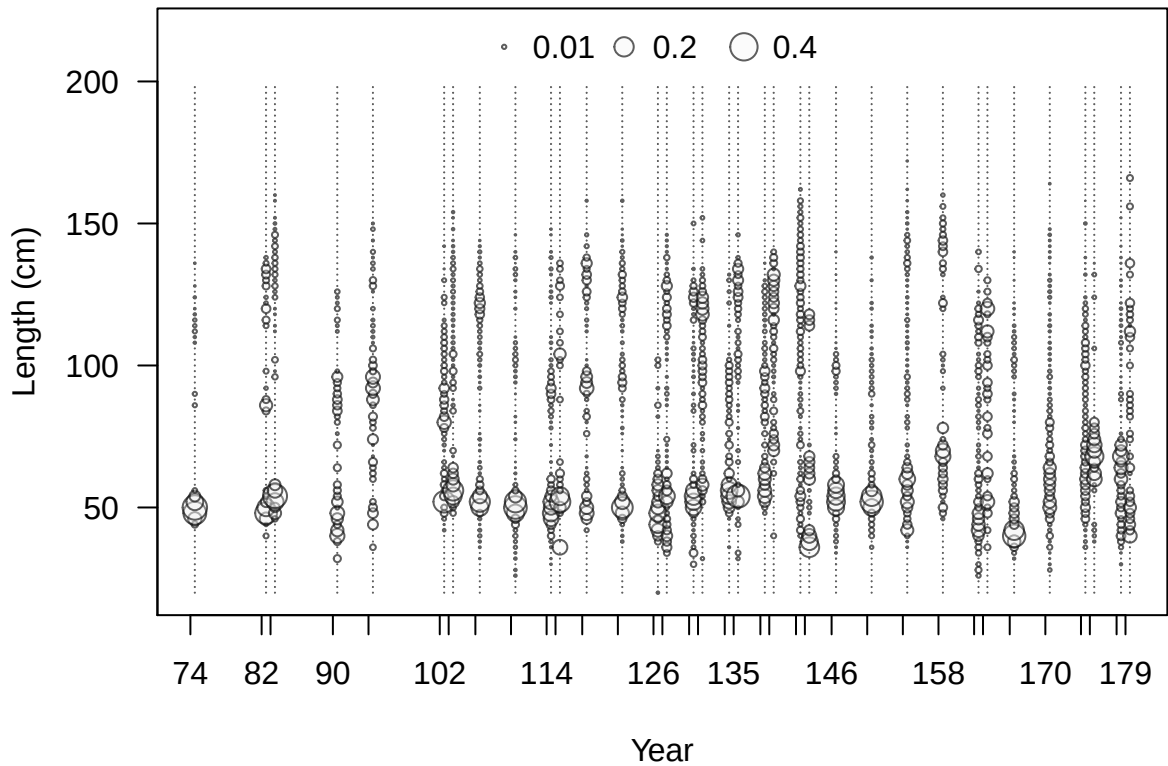


Proportion

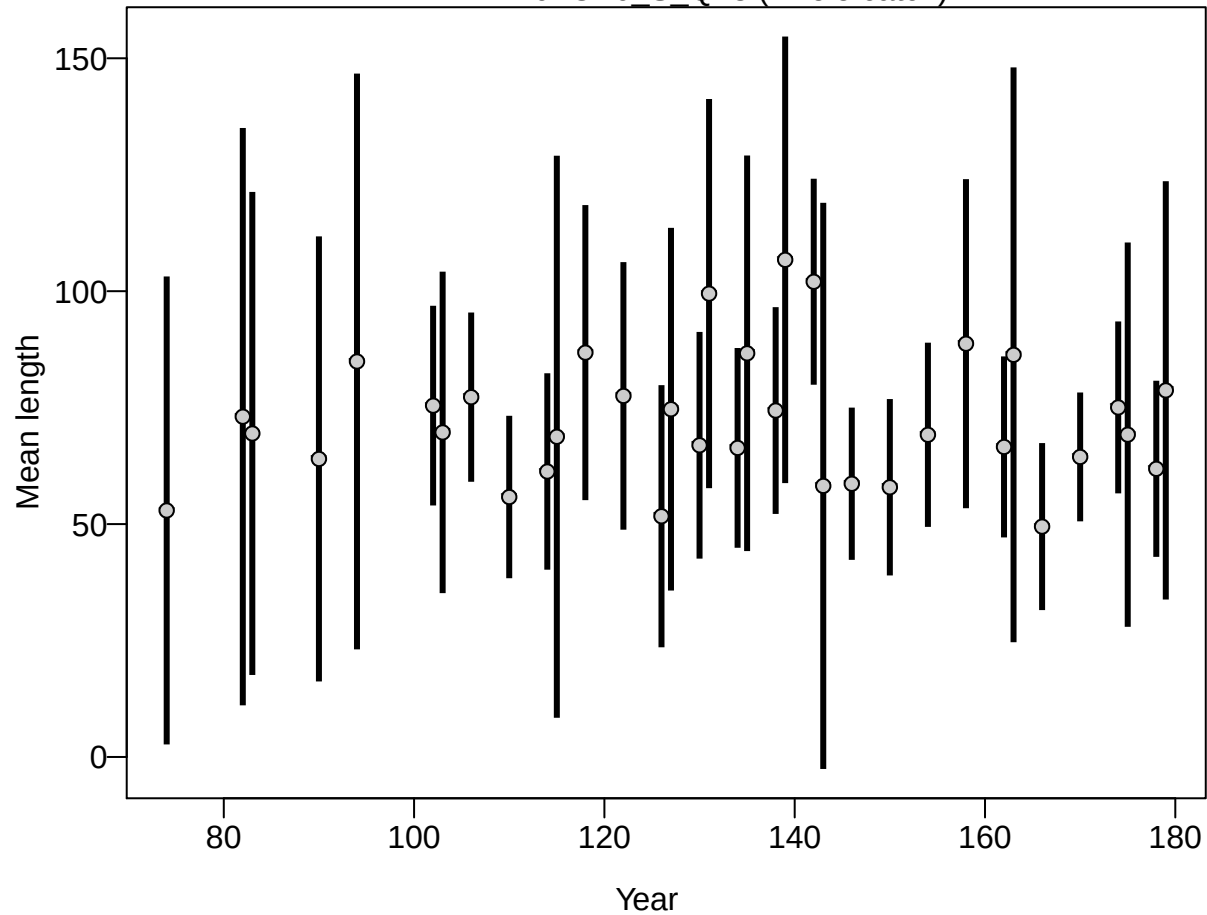


Proportion

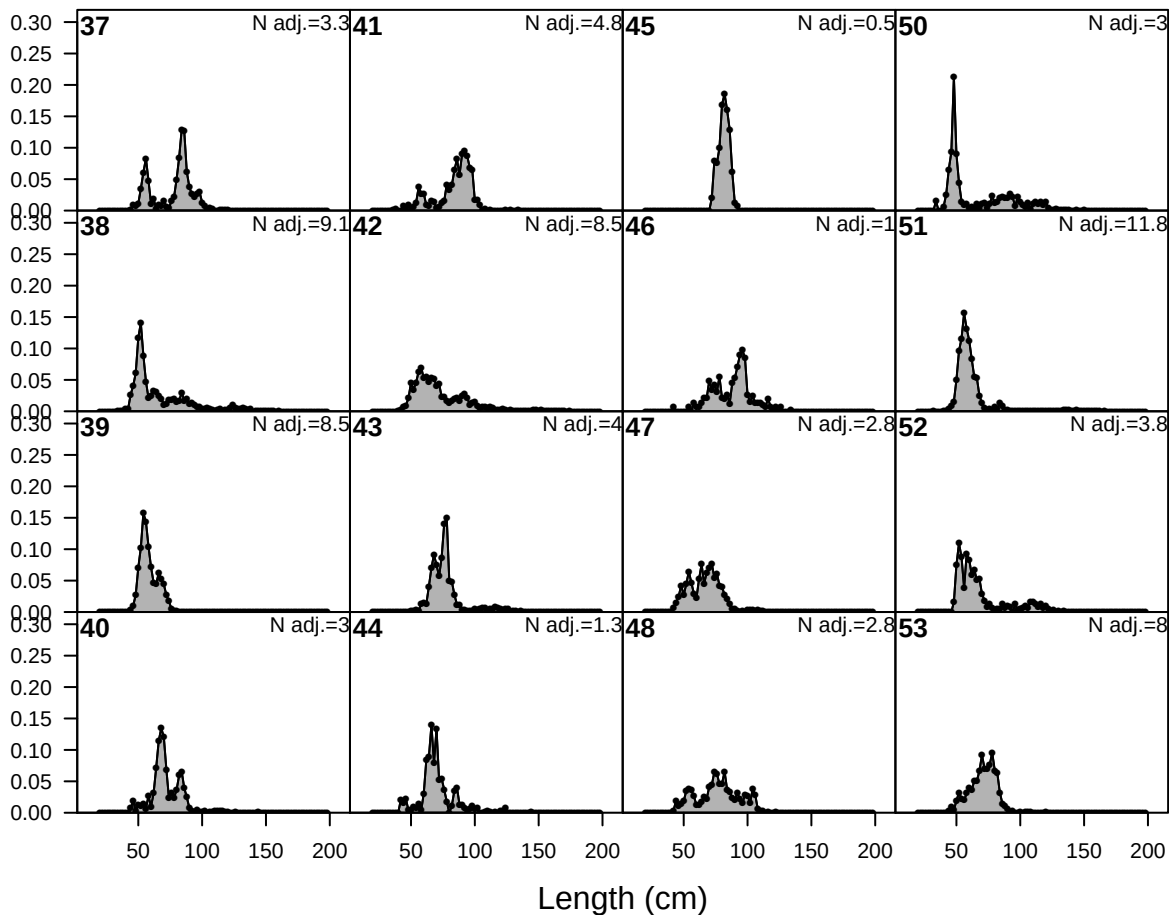




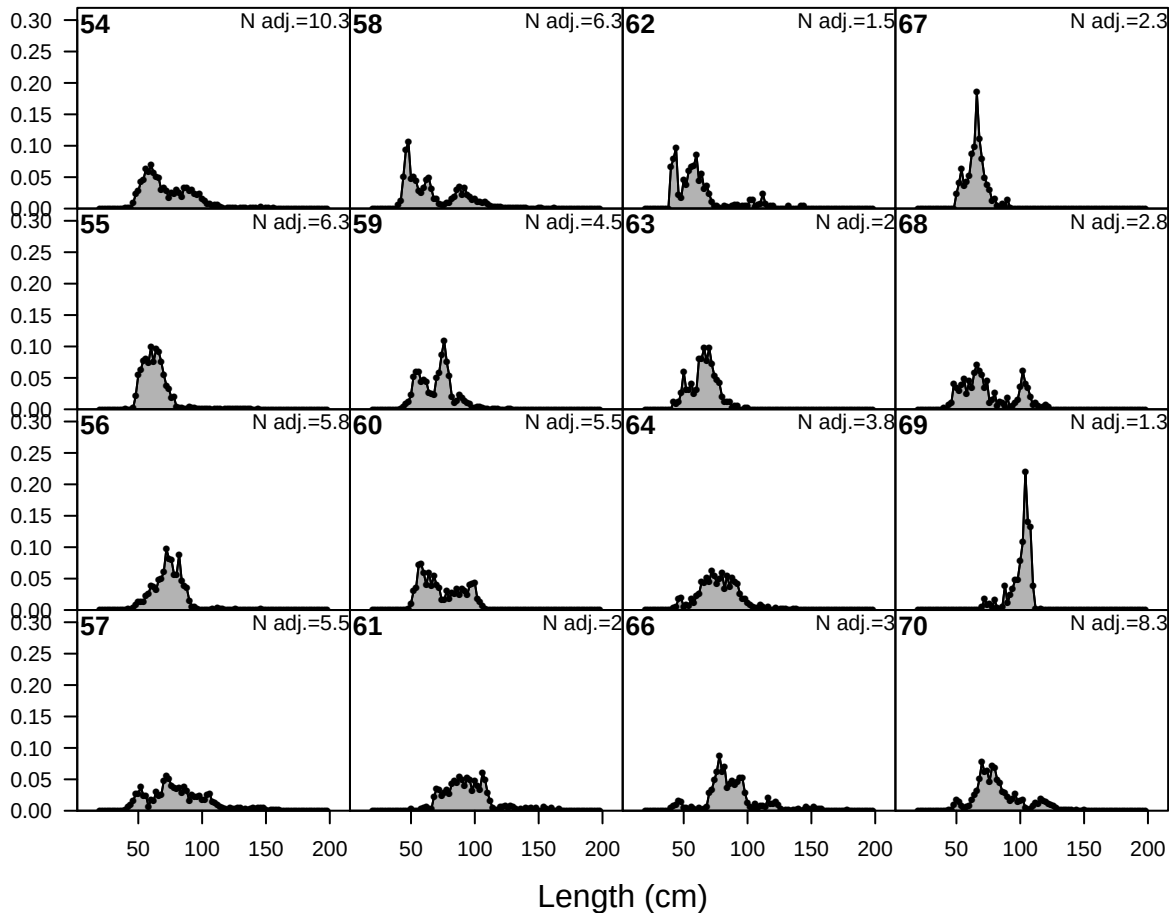
F10-OBJ\_S\_Q23 (whole catch)



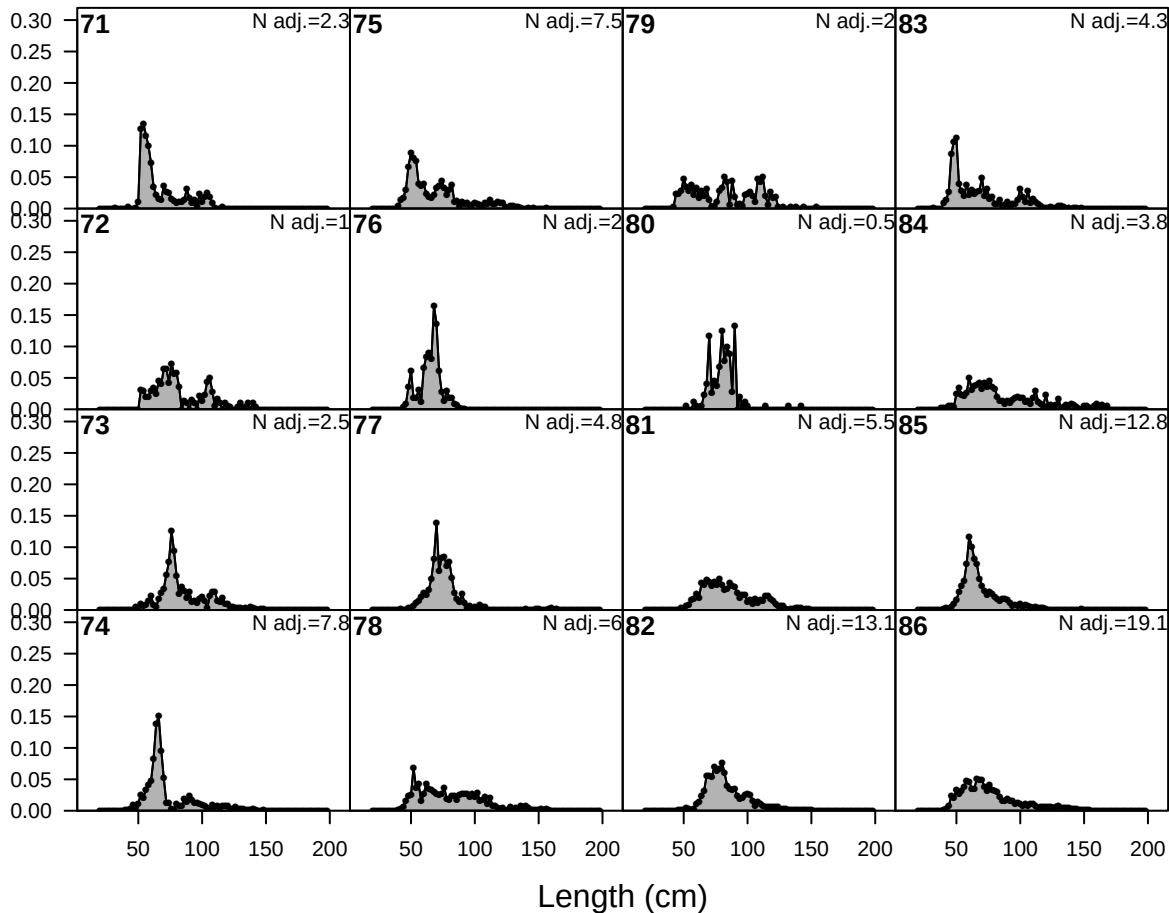
Proportion

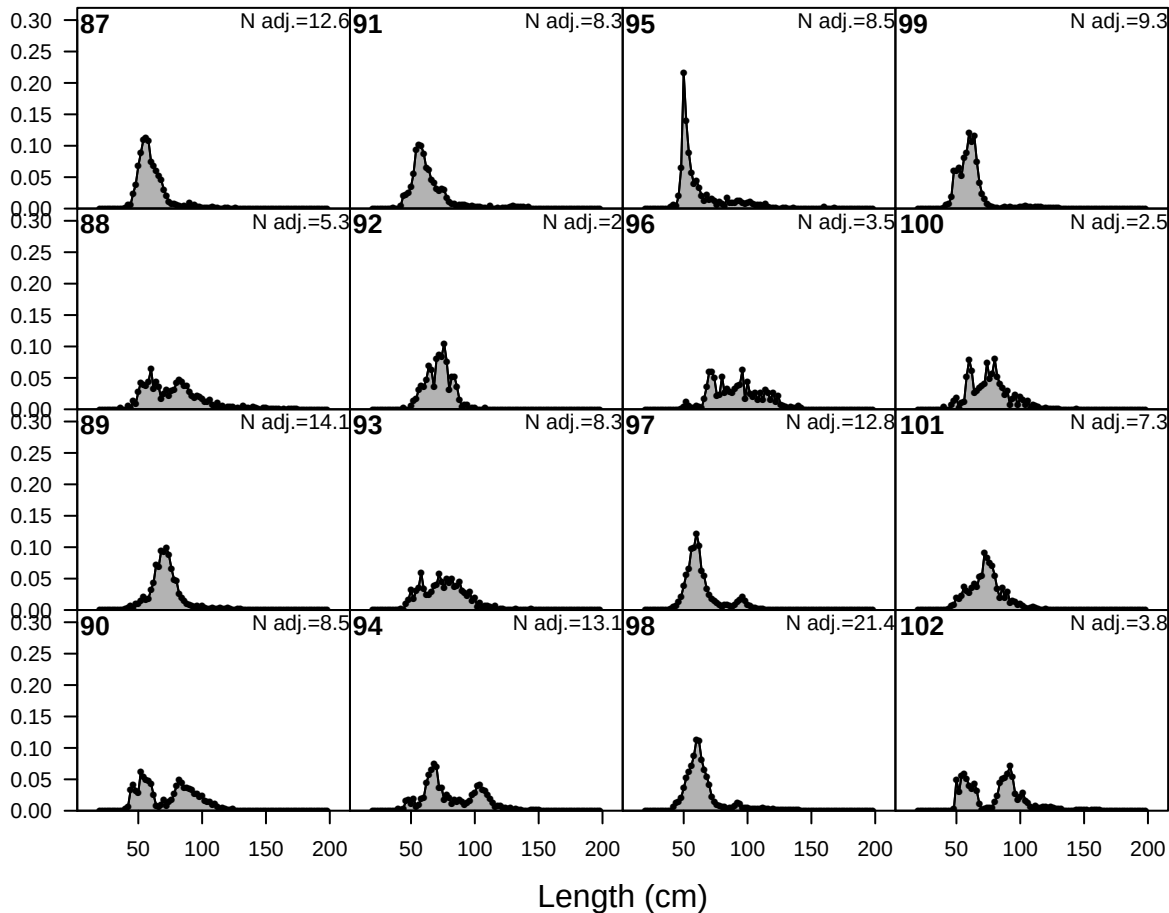


Proportion

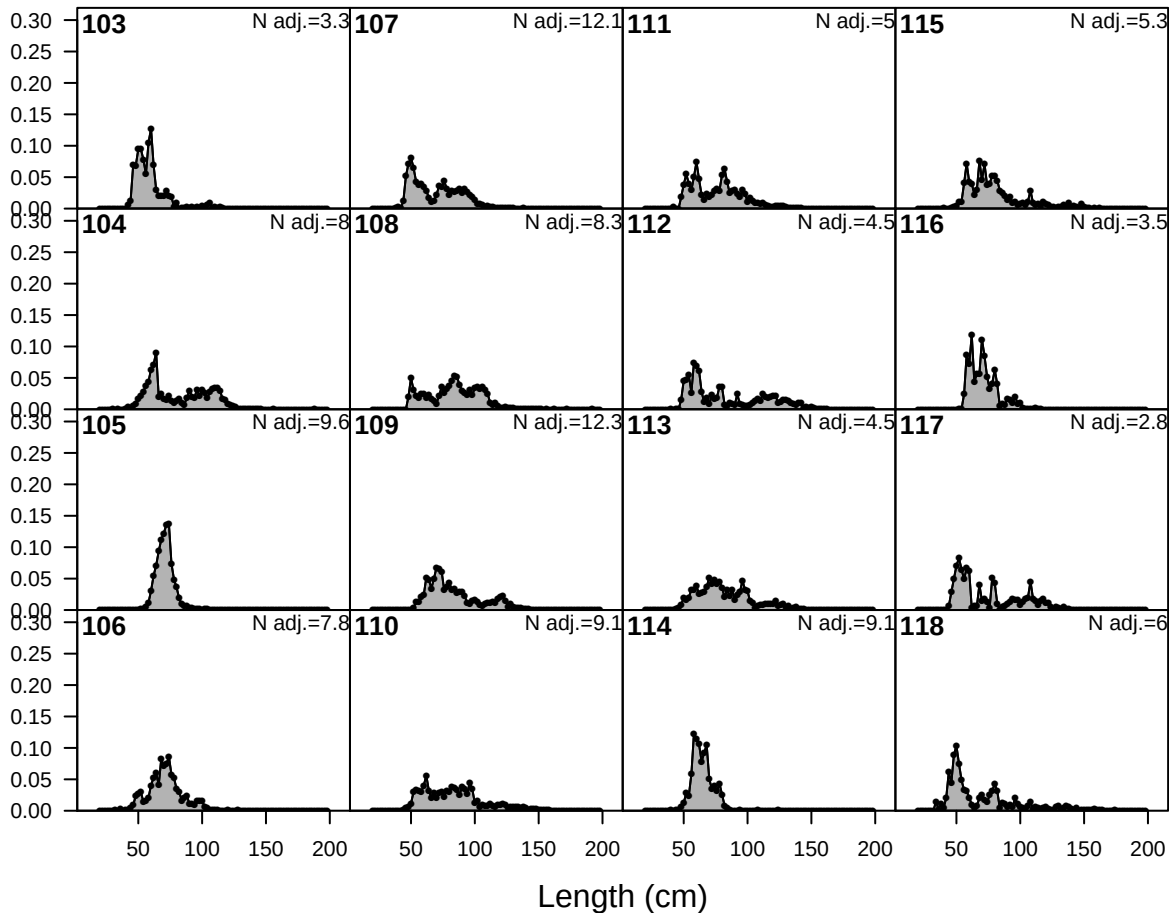


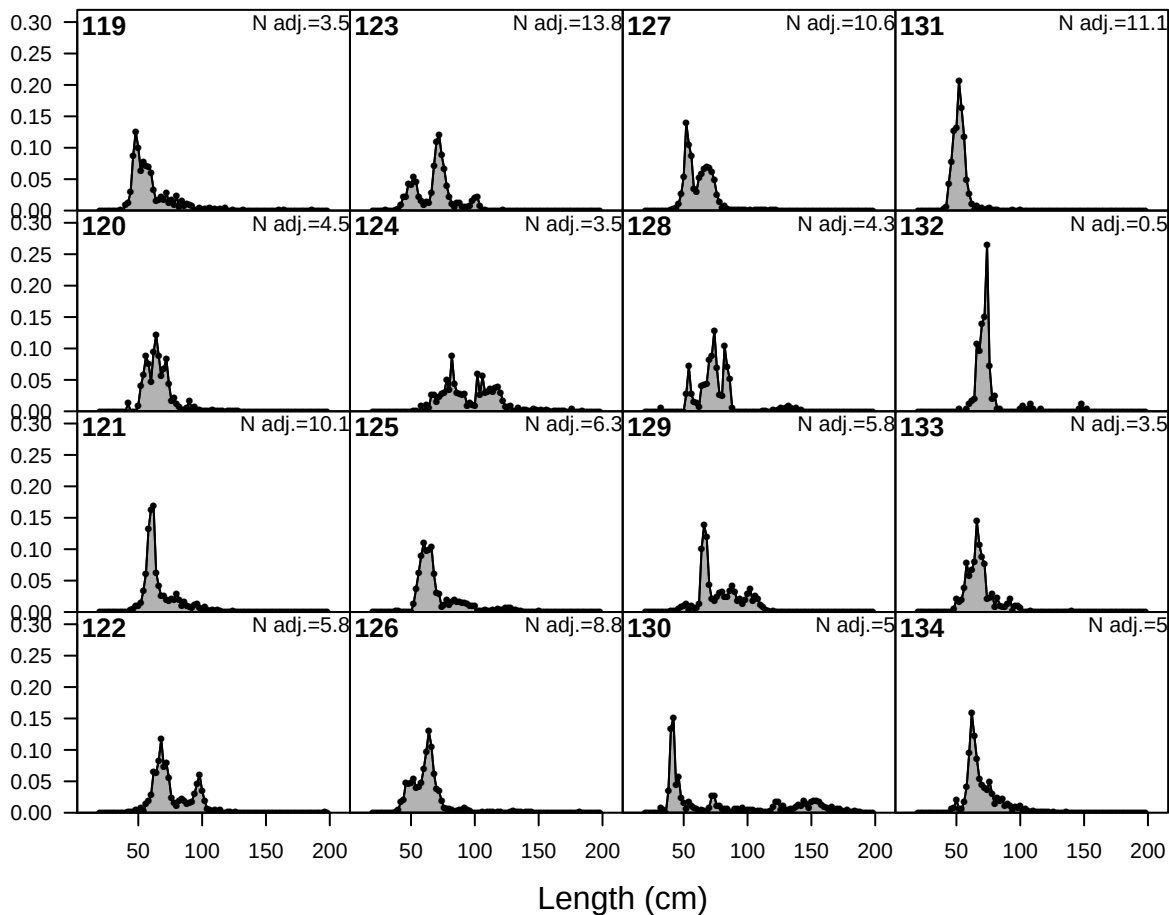


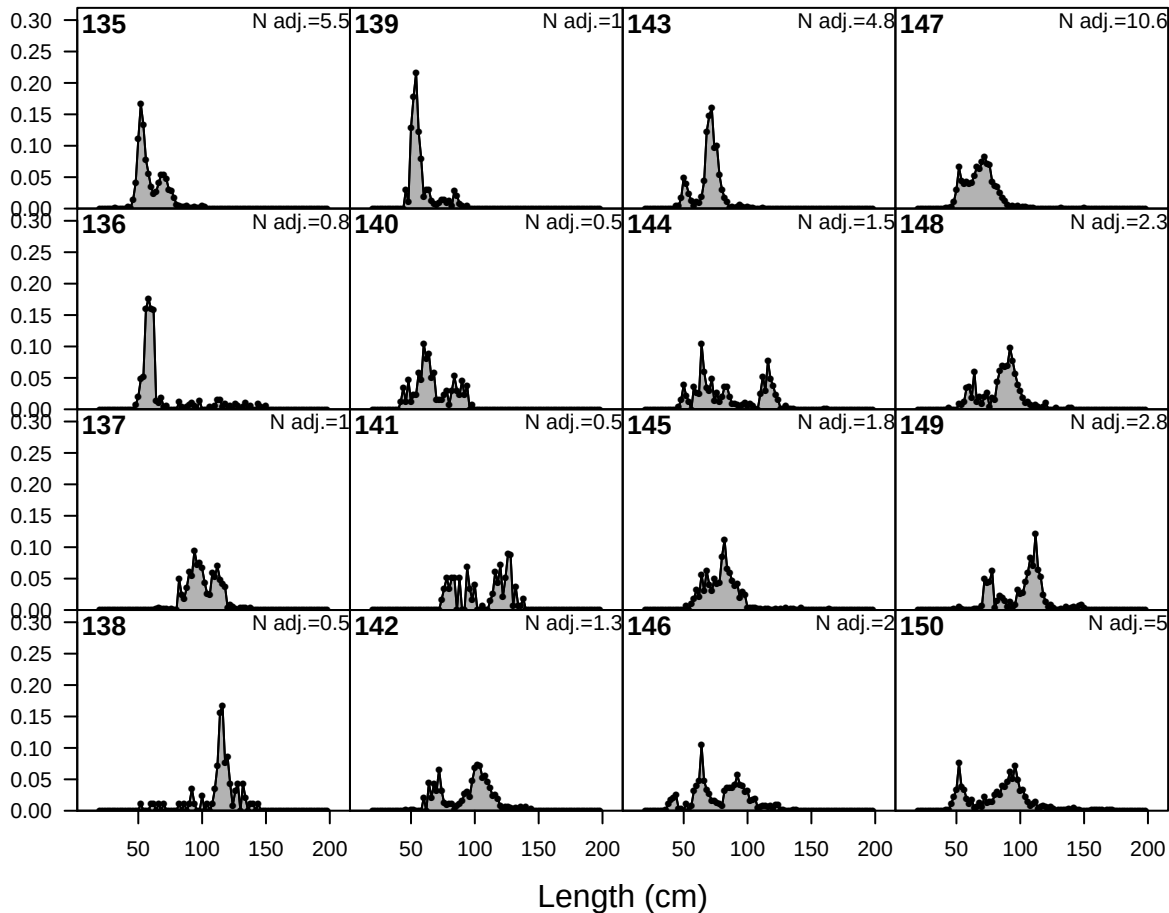


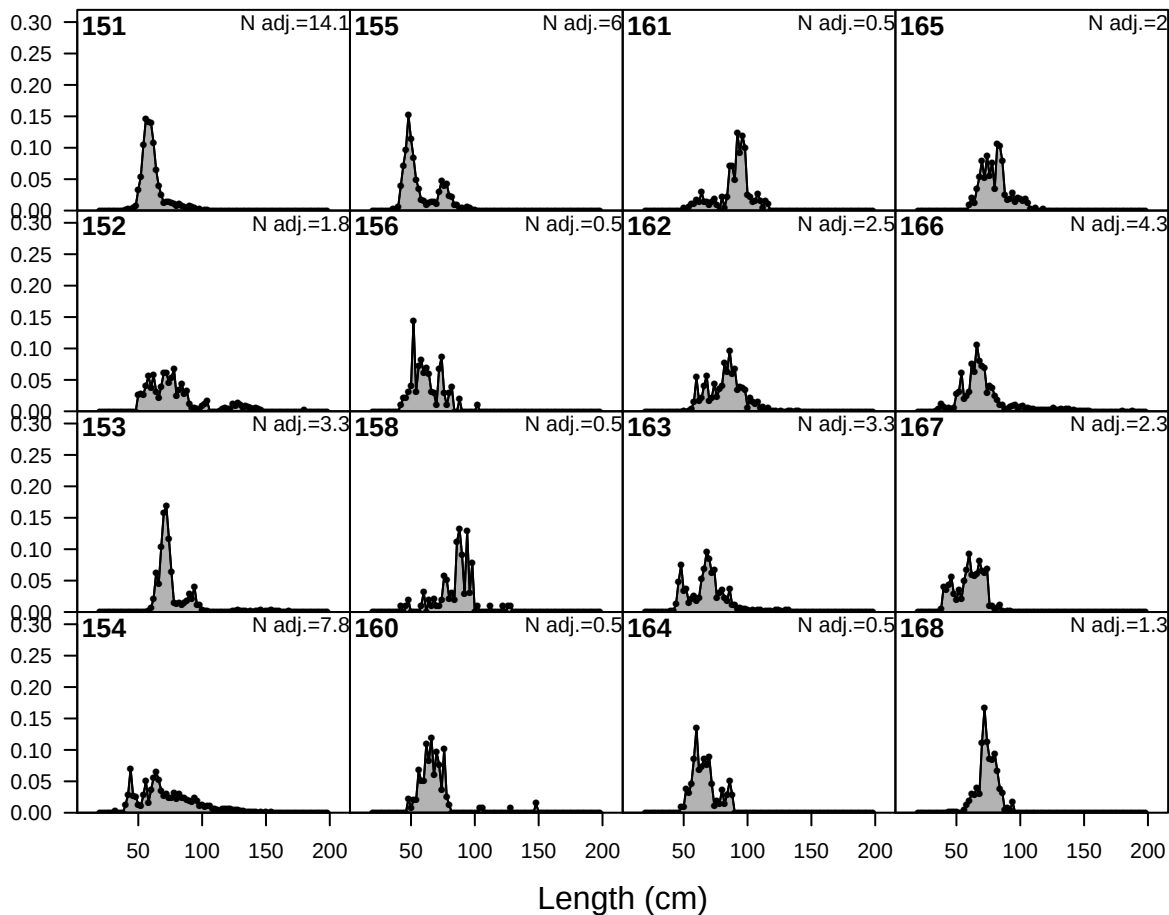


Proportion

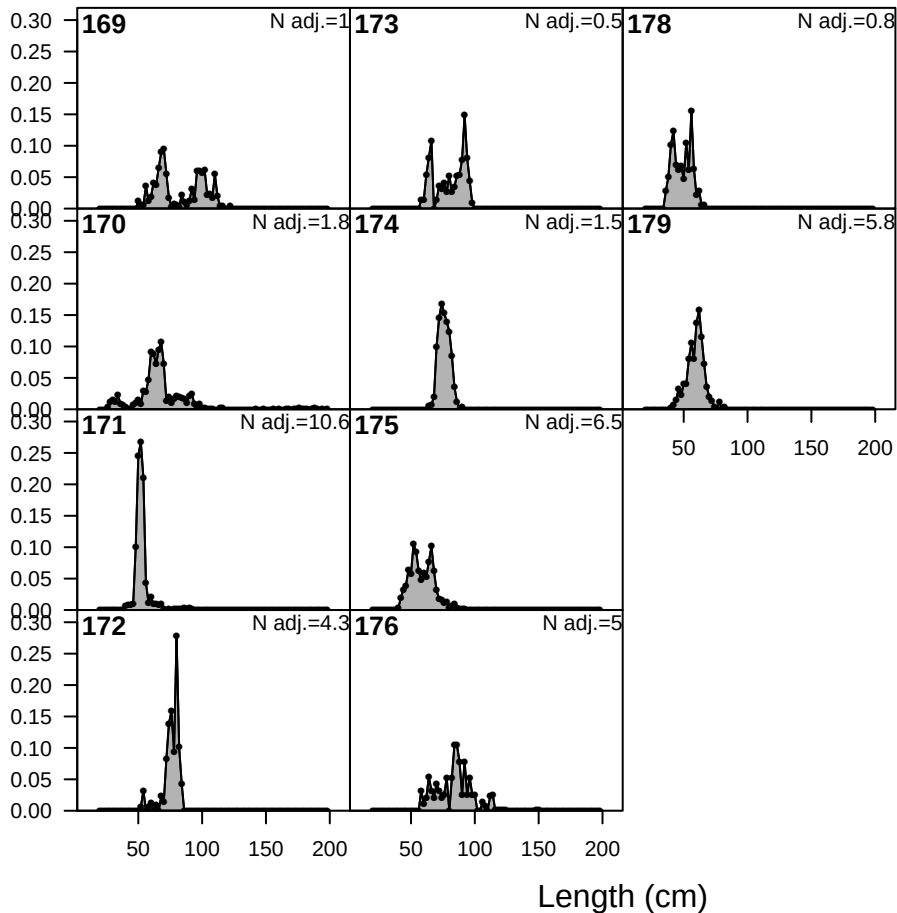


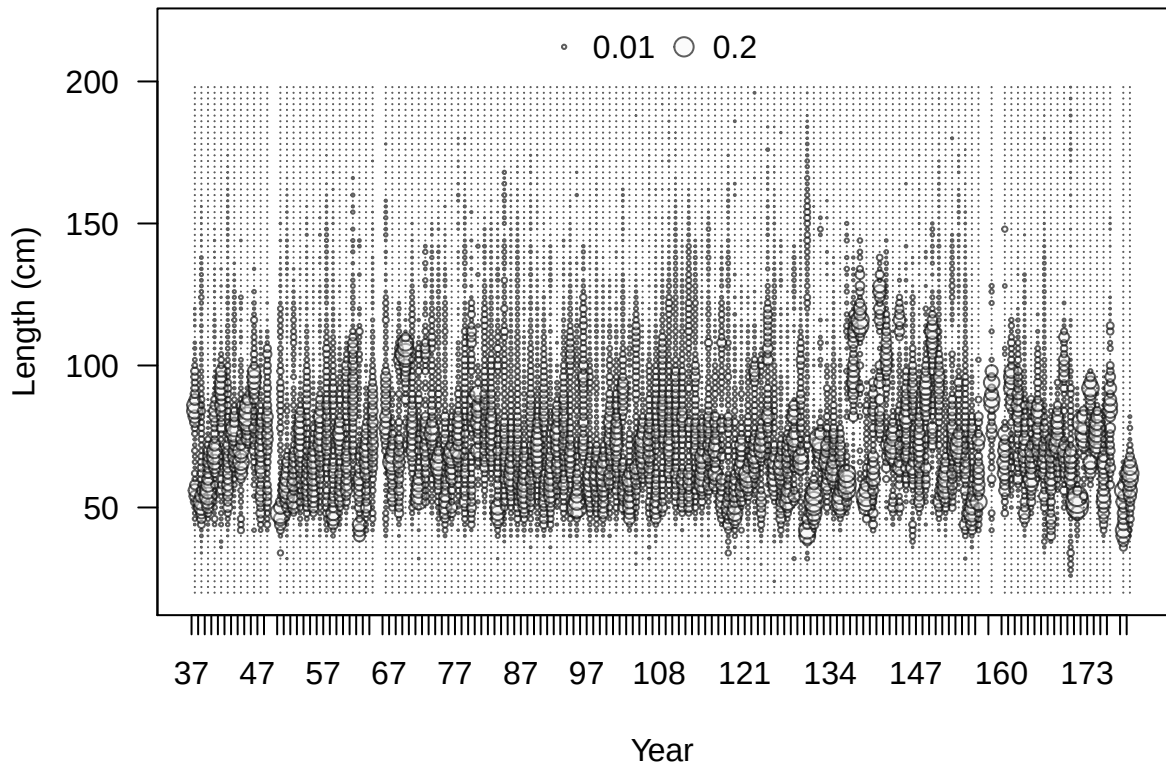






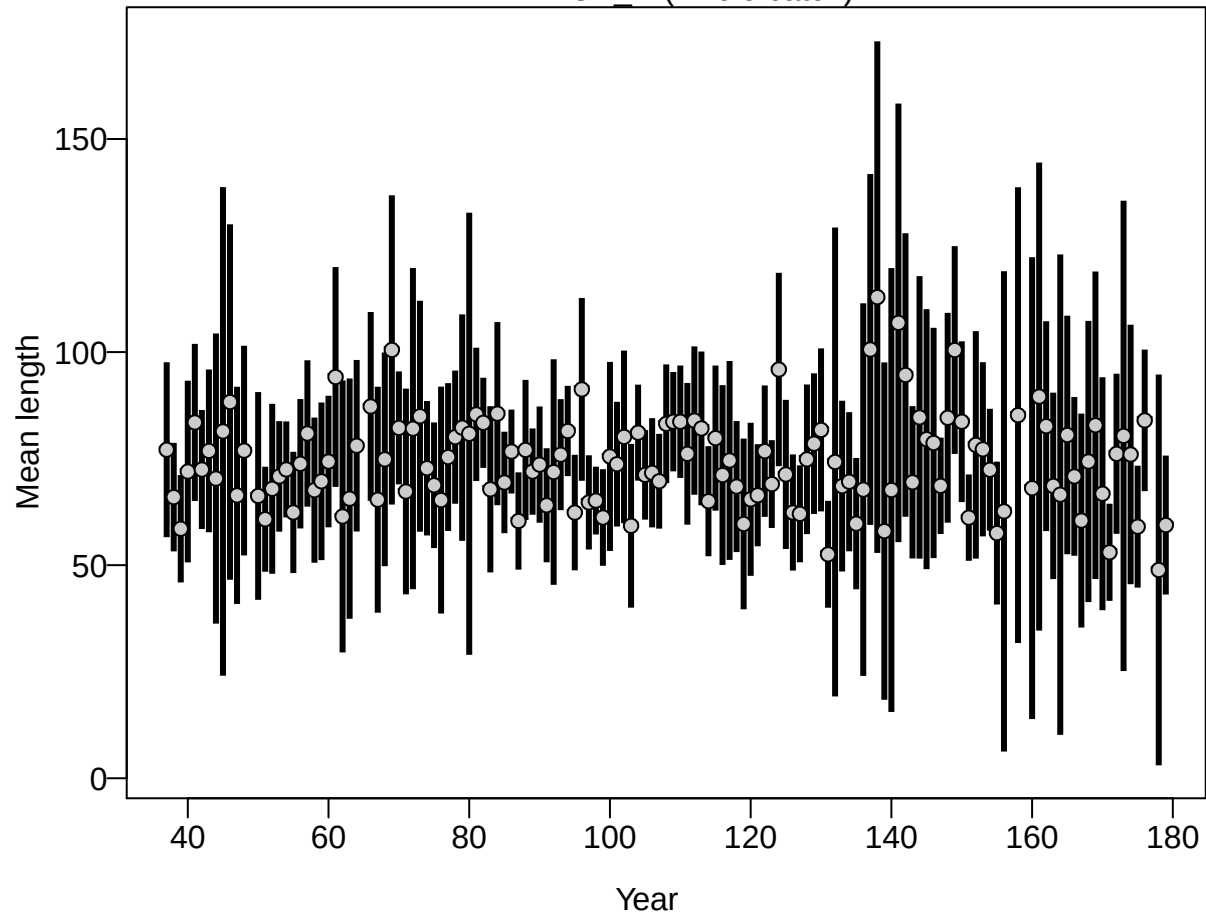
Proportion



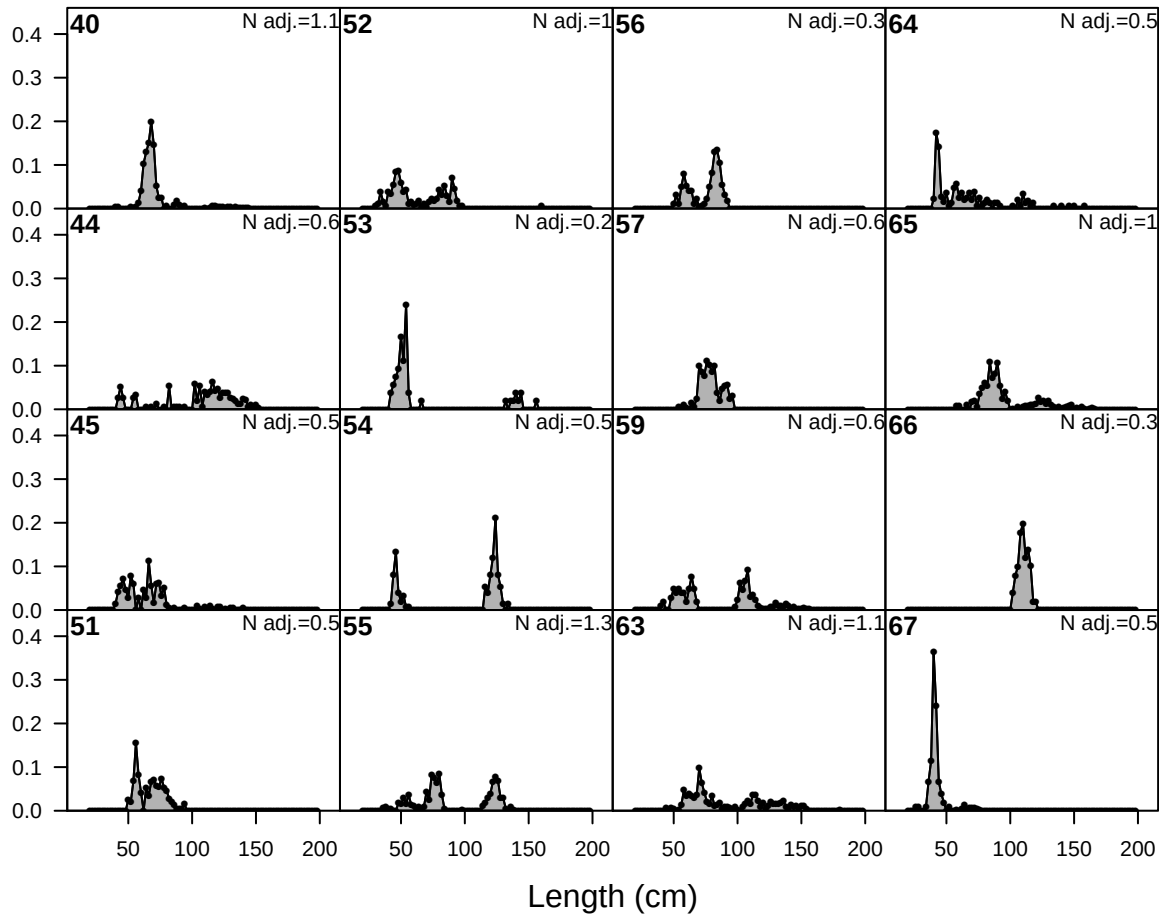




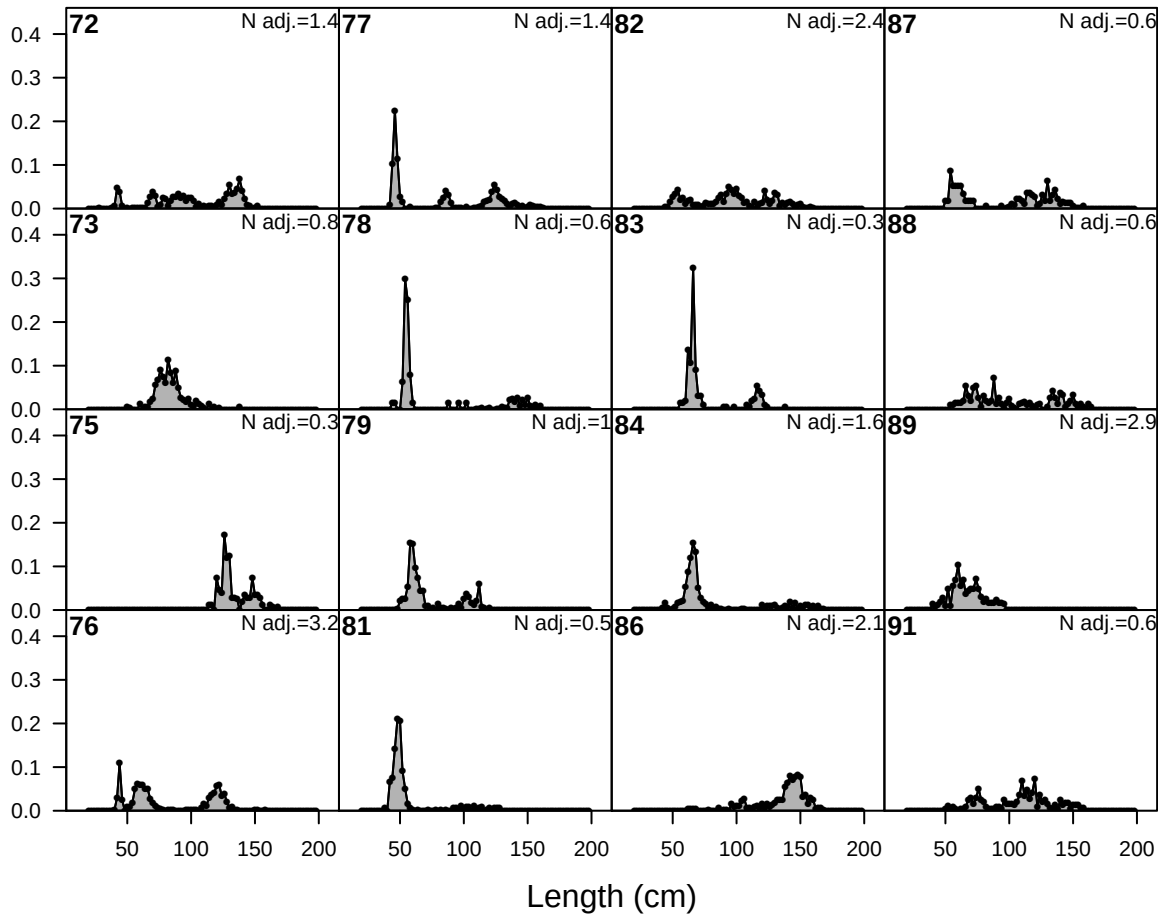
F11-NOA\_N (whole catch)



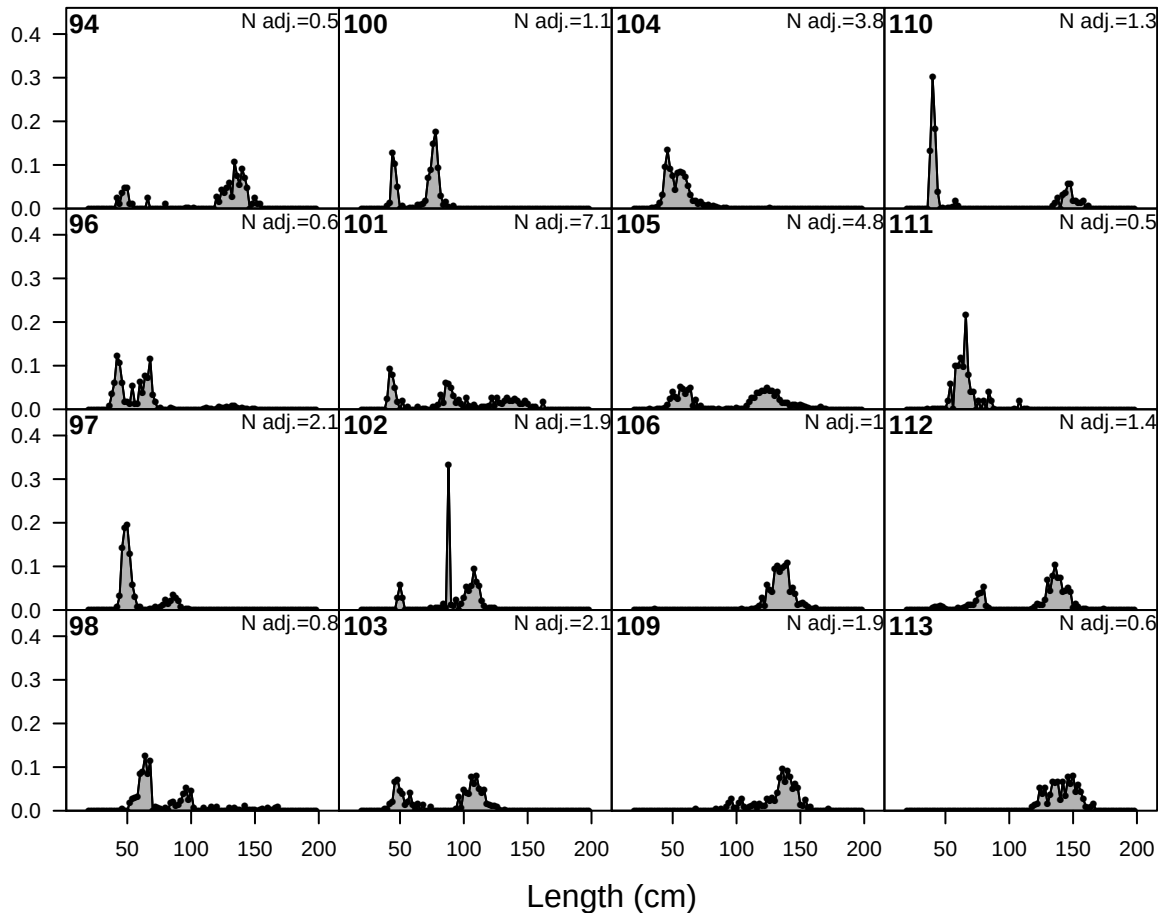
Proportion



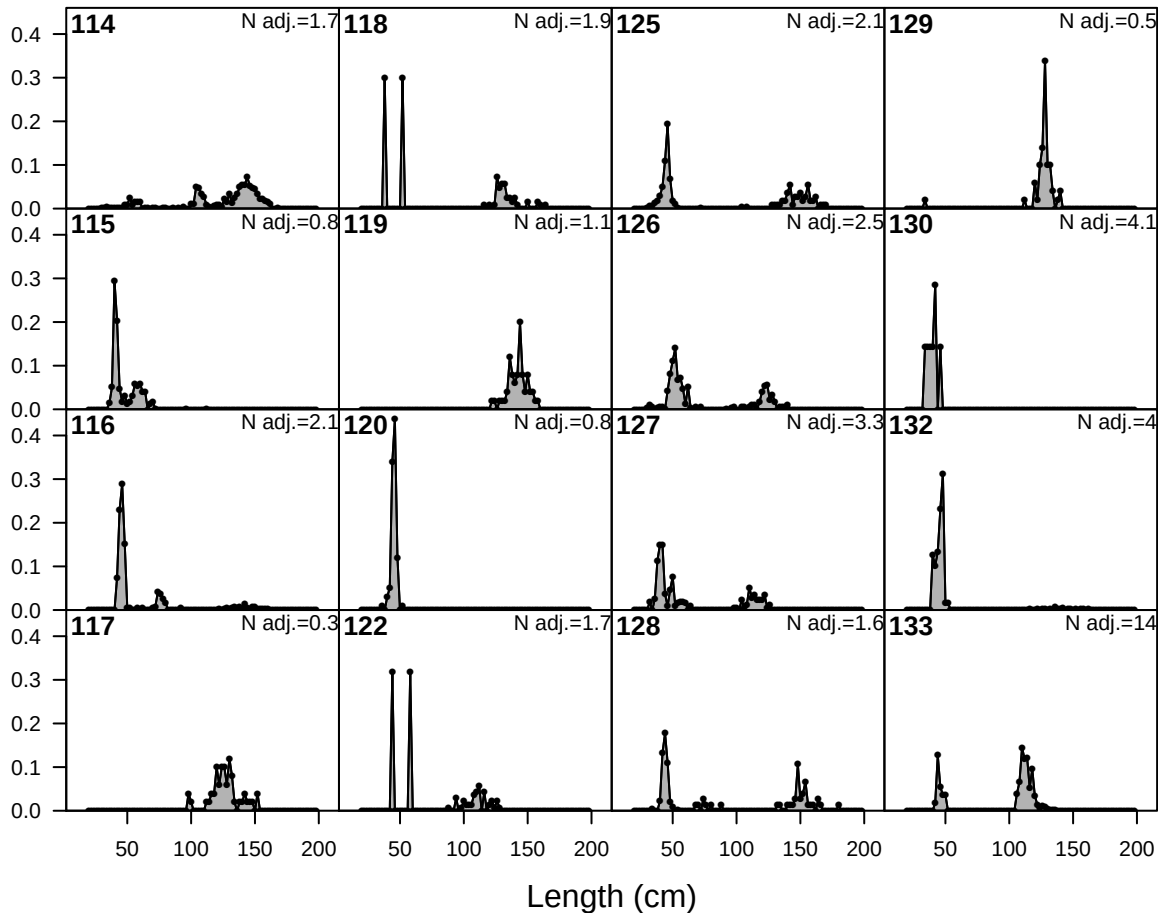
Proportion



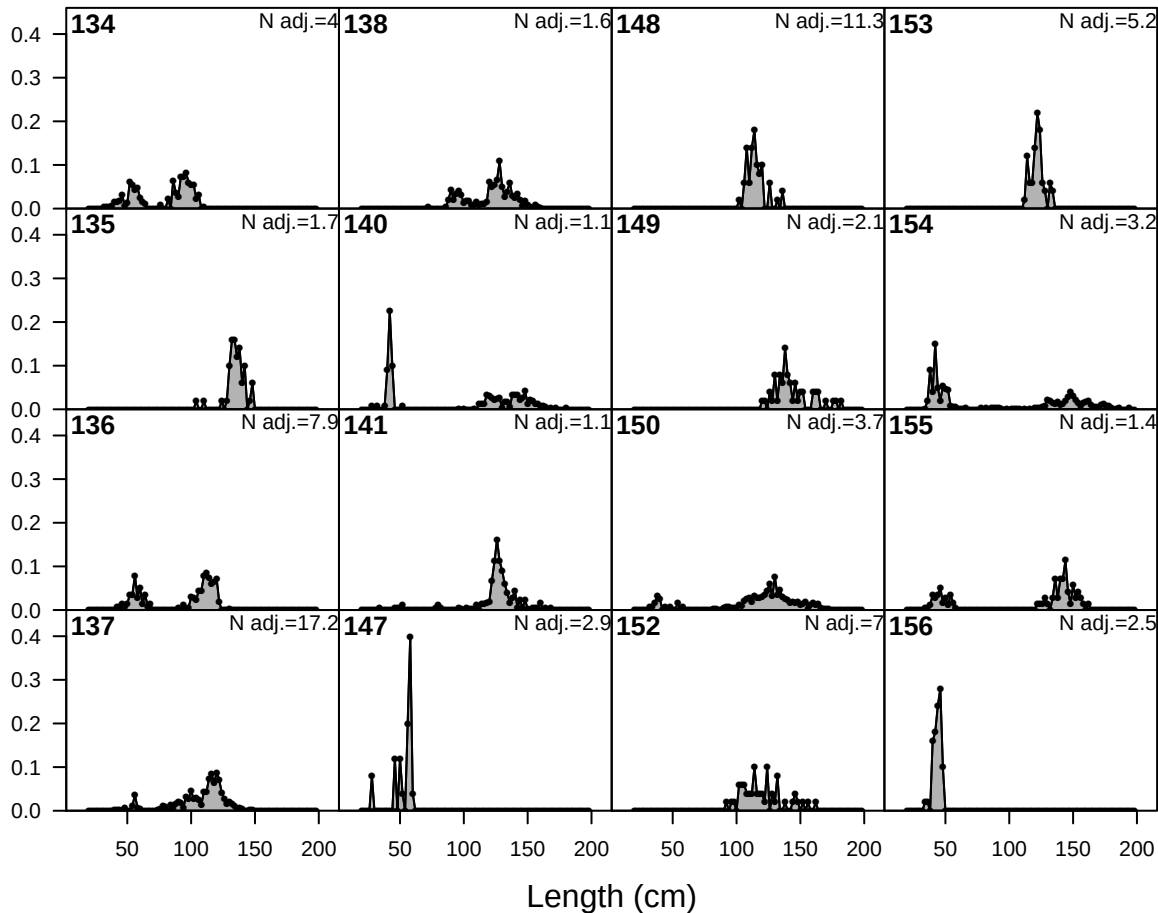
Proportion



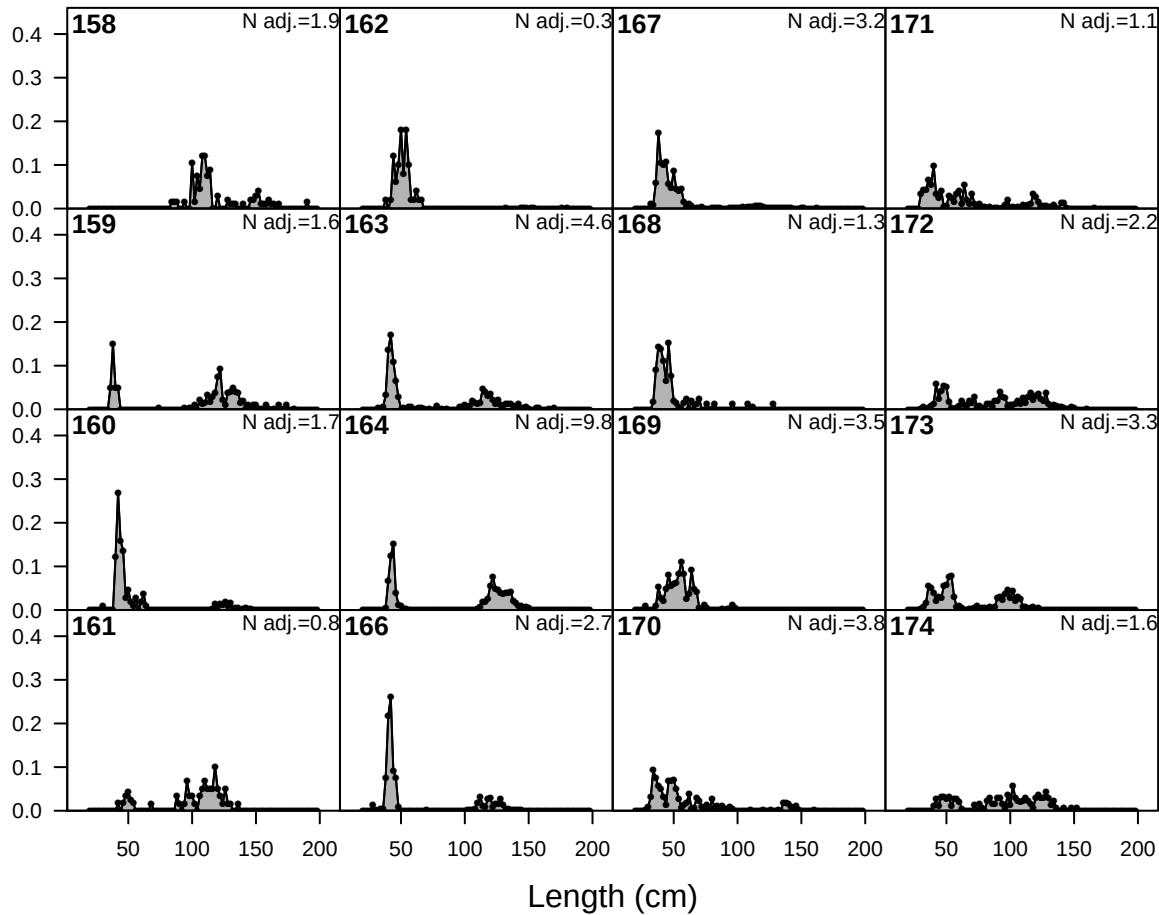
Proportion



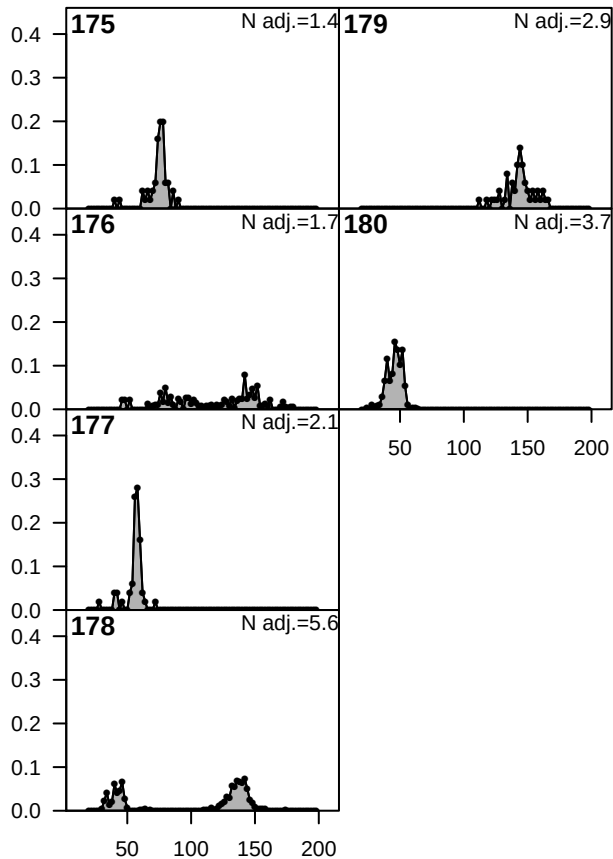
Proportion



Proportion

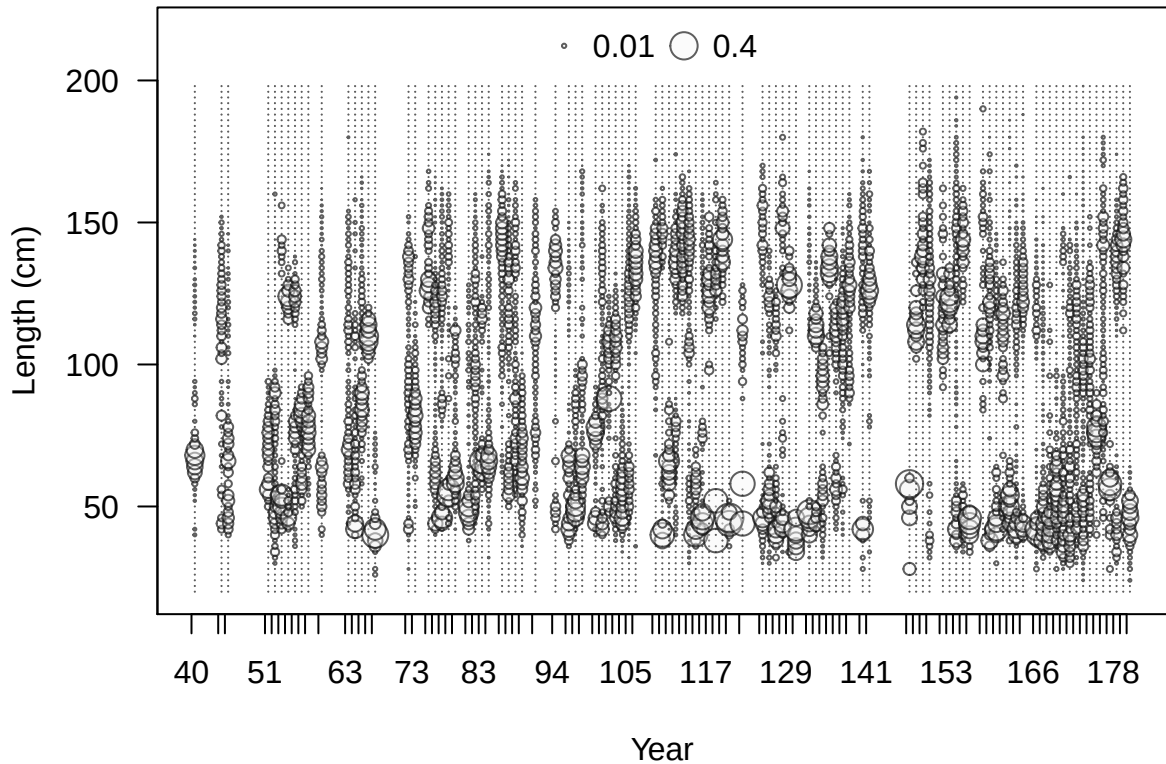


Proportion

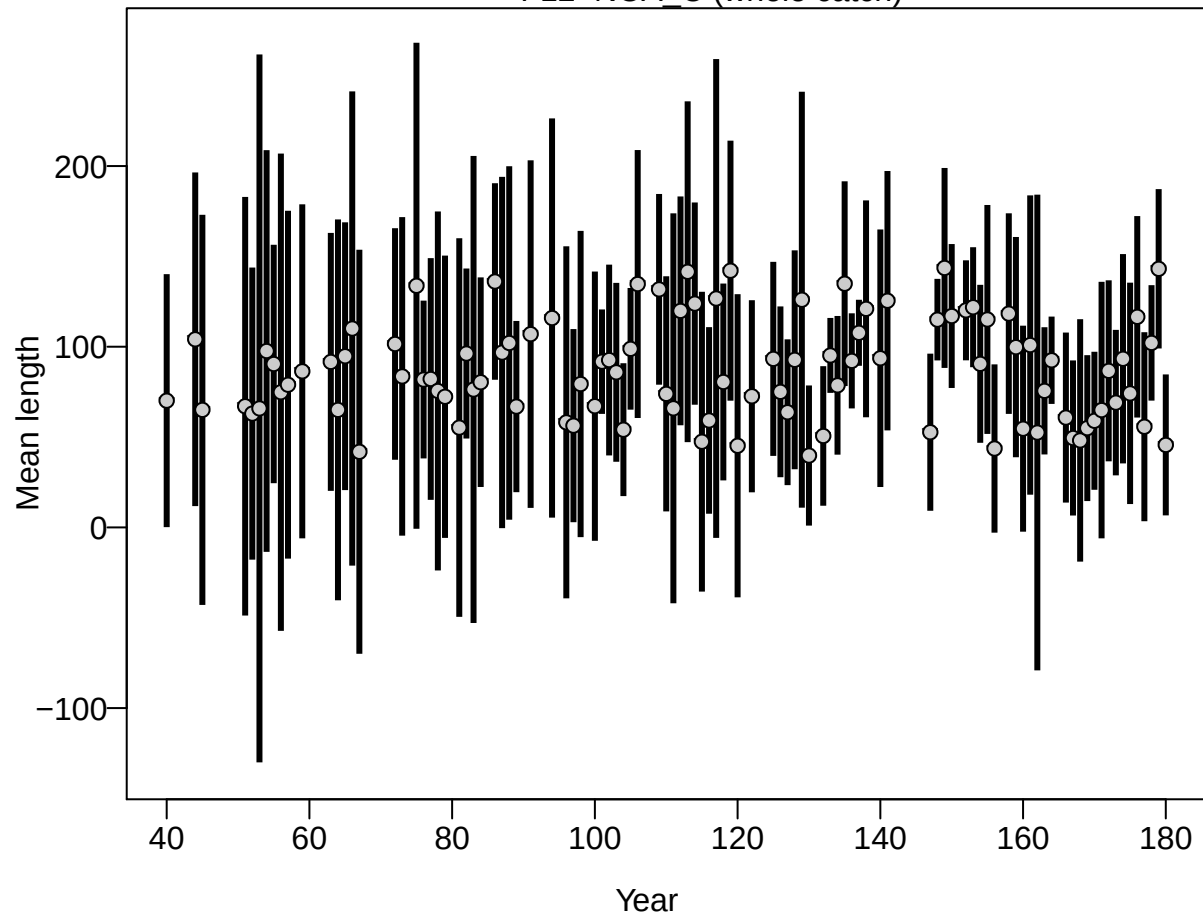


Length (cm)

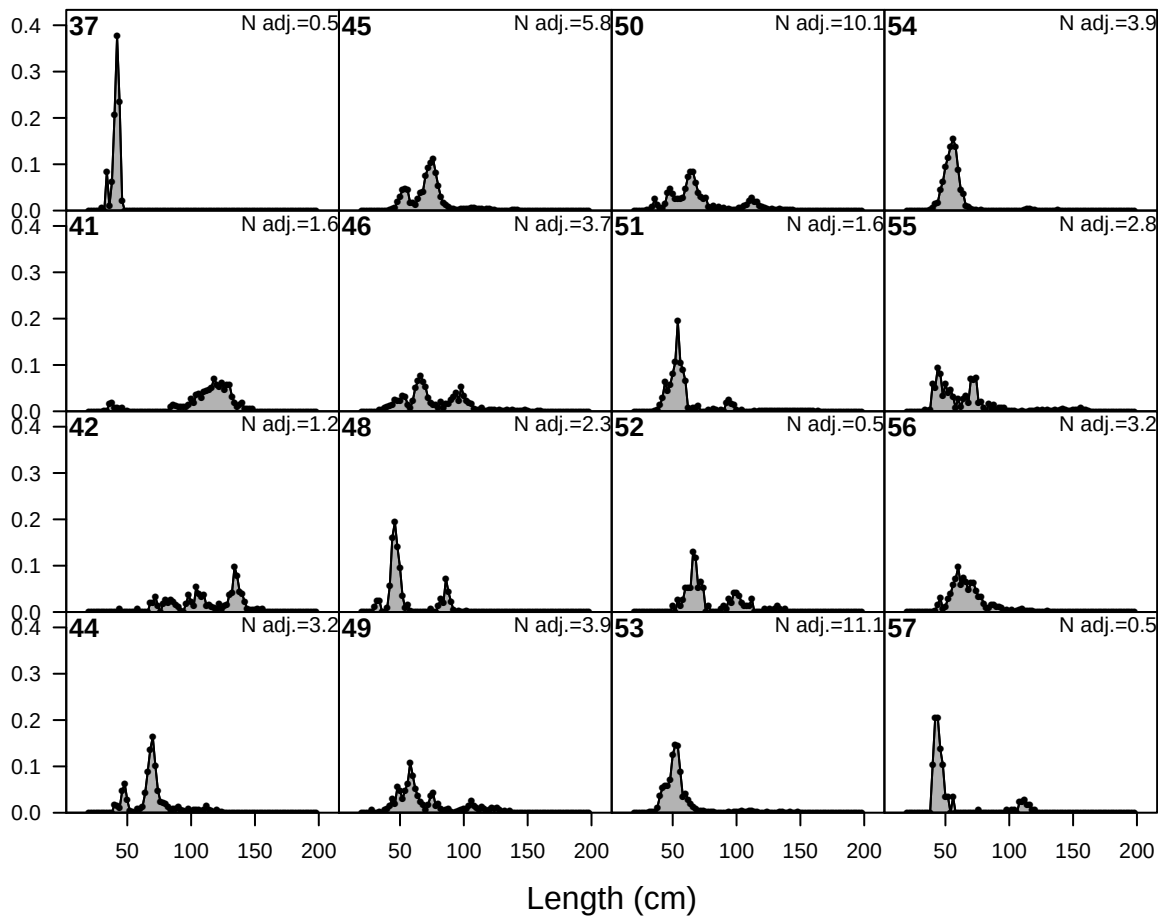




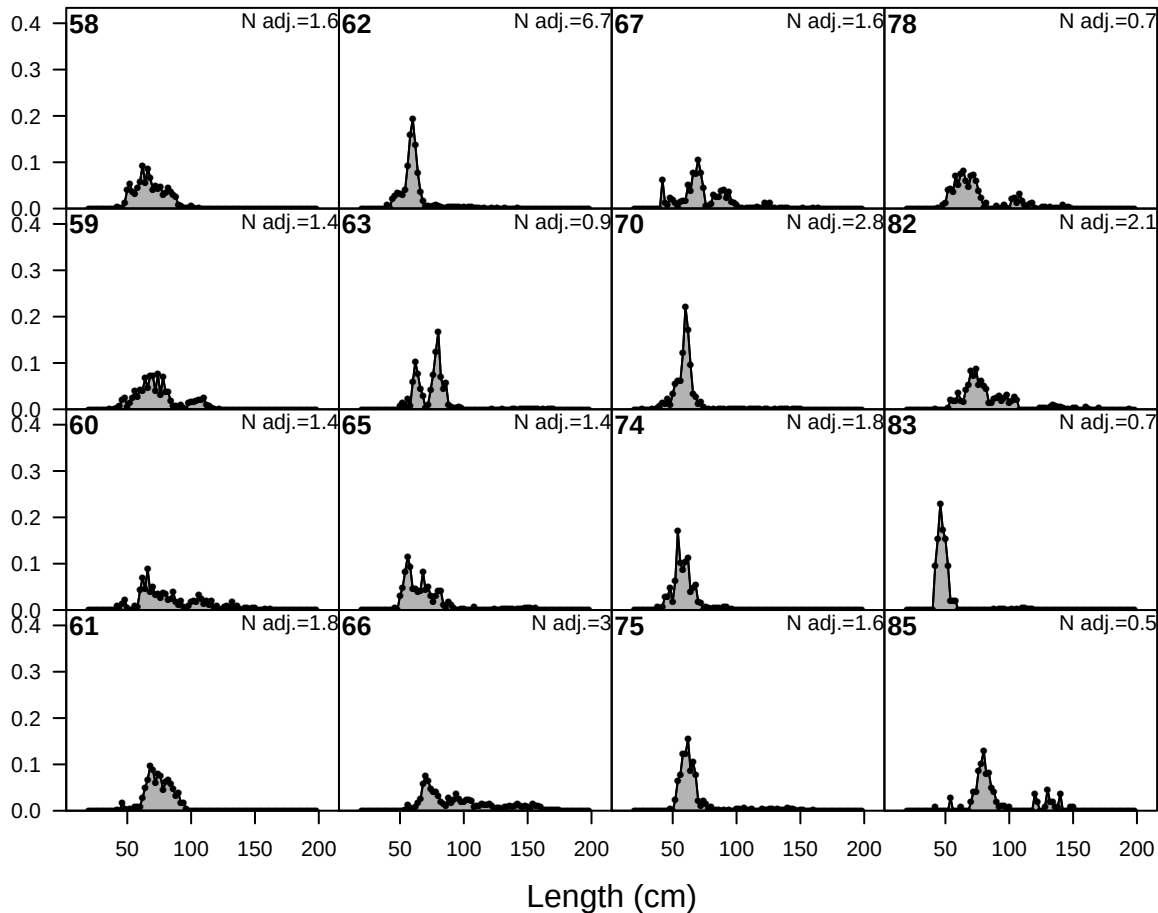
F12-NOA\_C (whole catch)

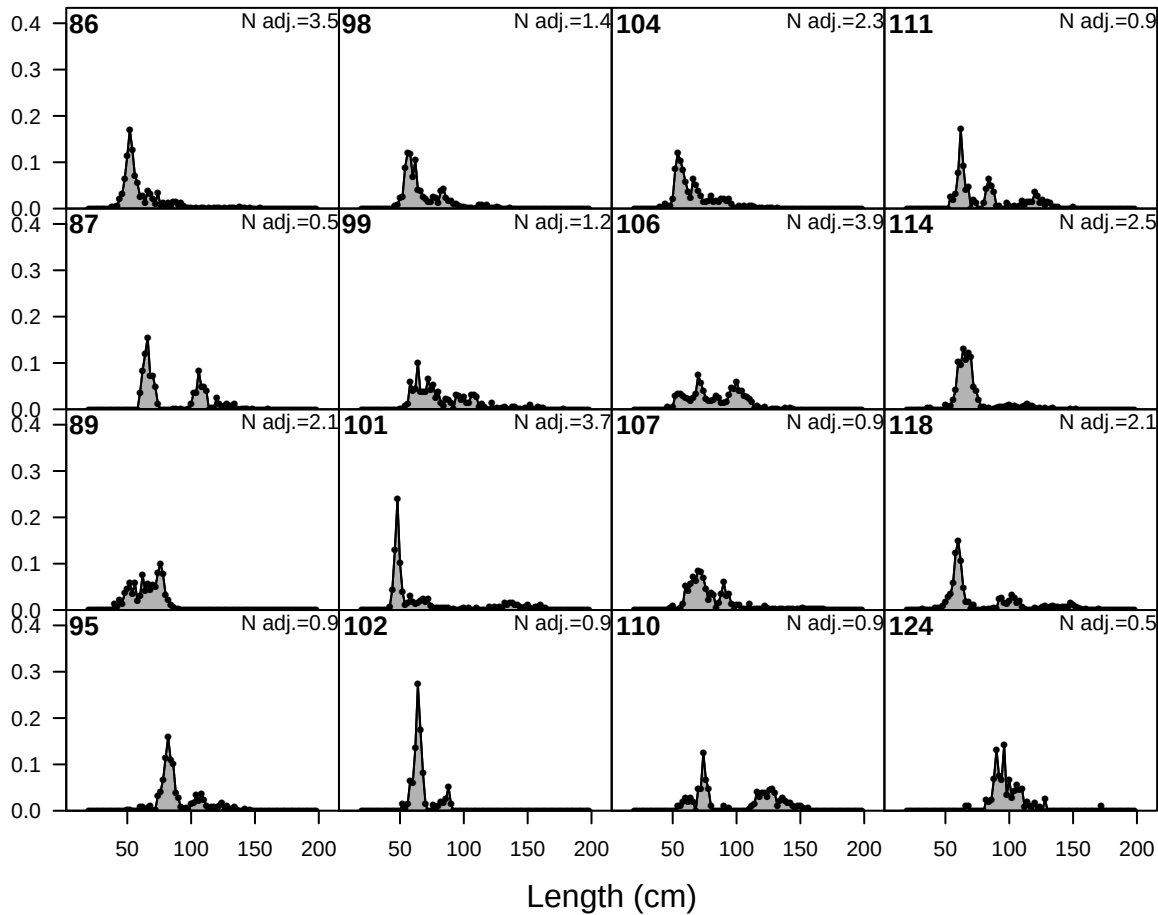


Proportion

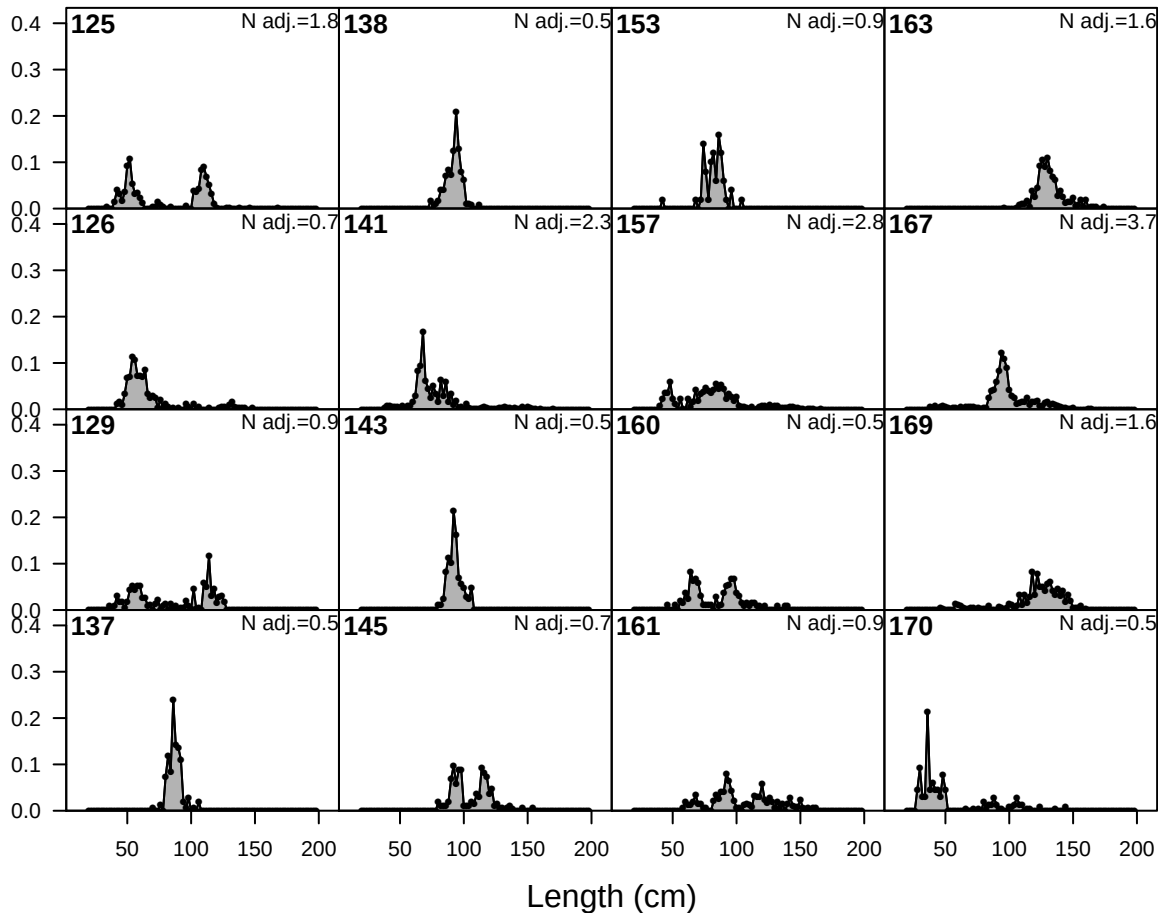


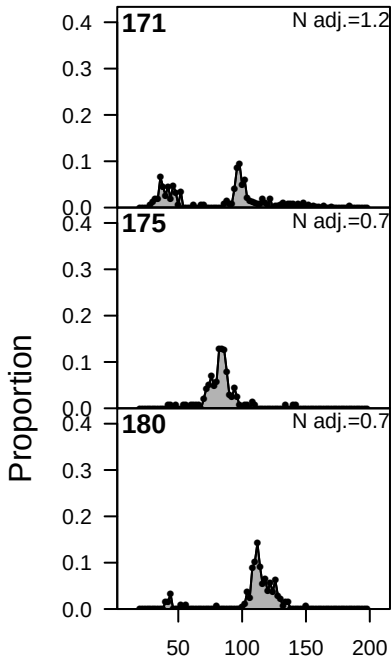
Proportion



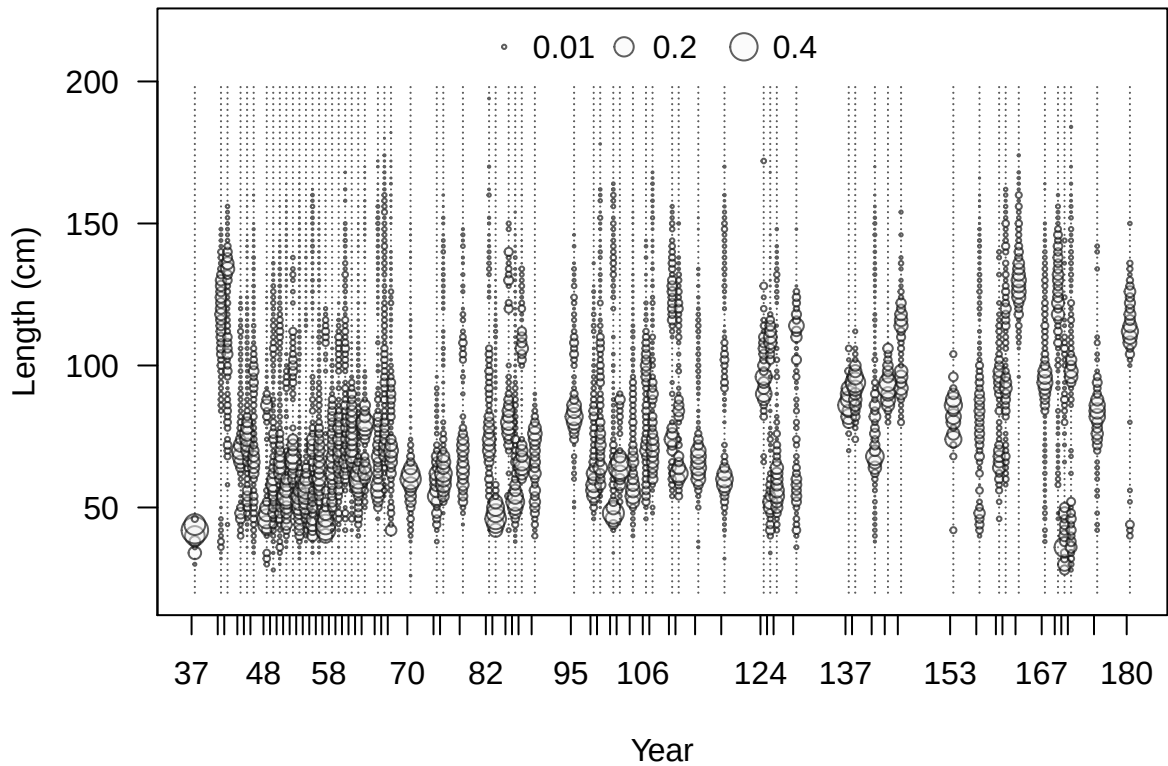


Proportion



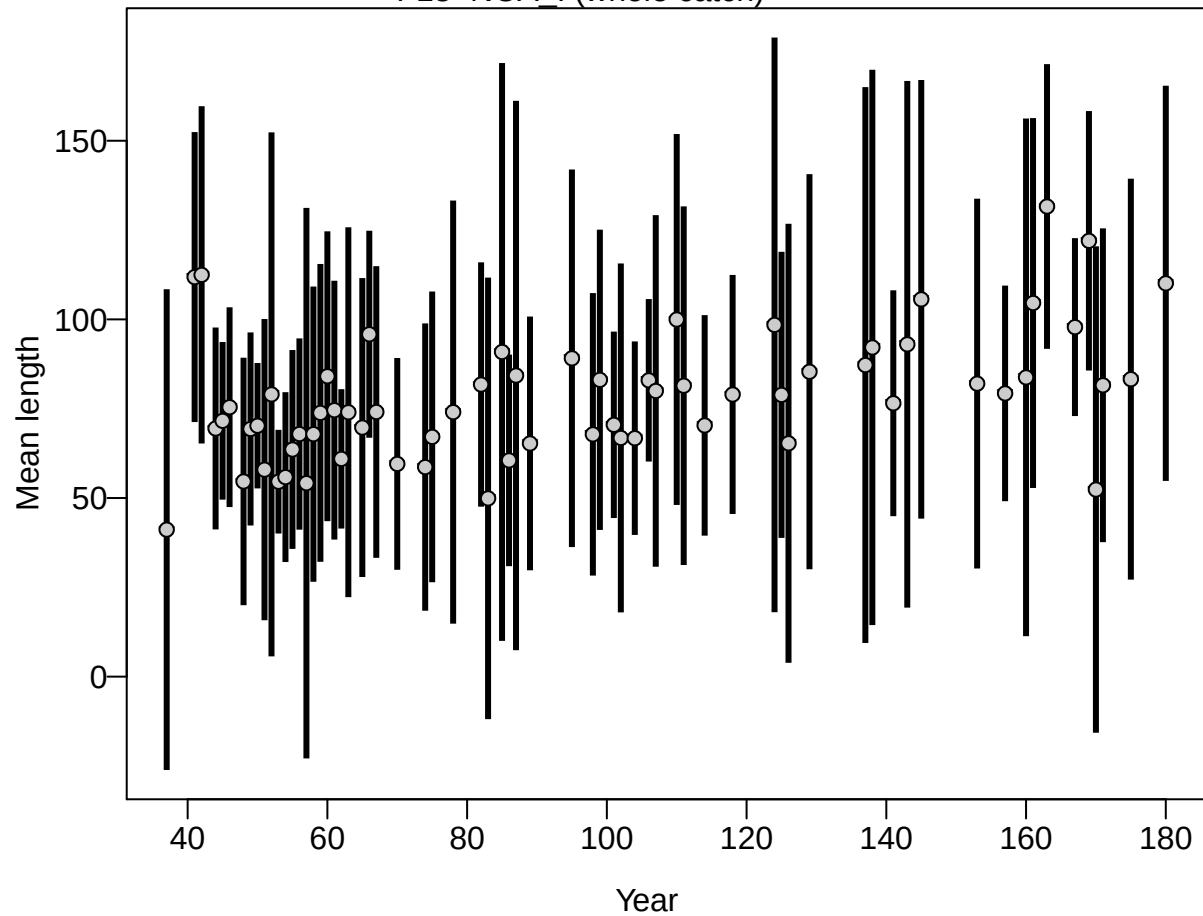


Length (cm)

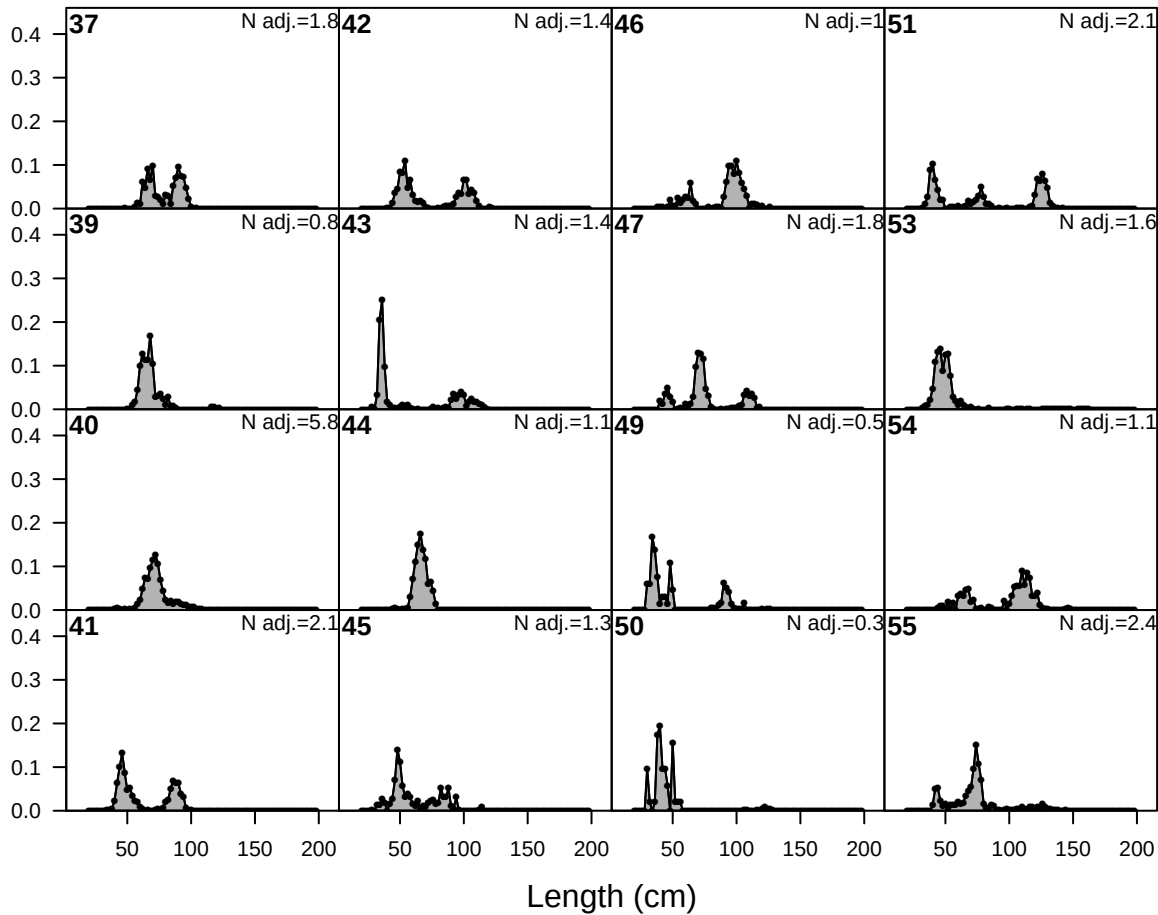




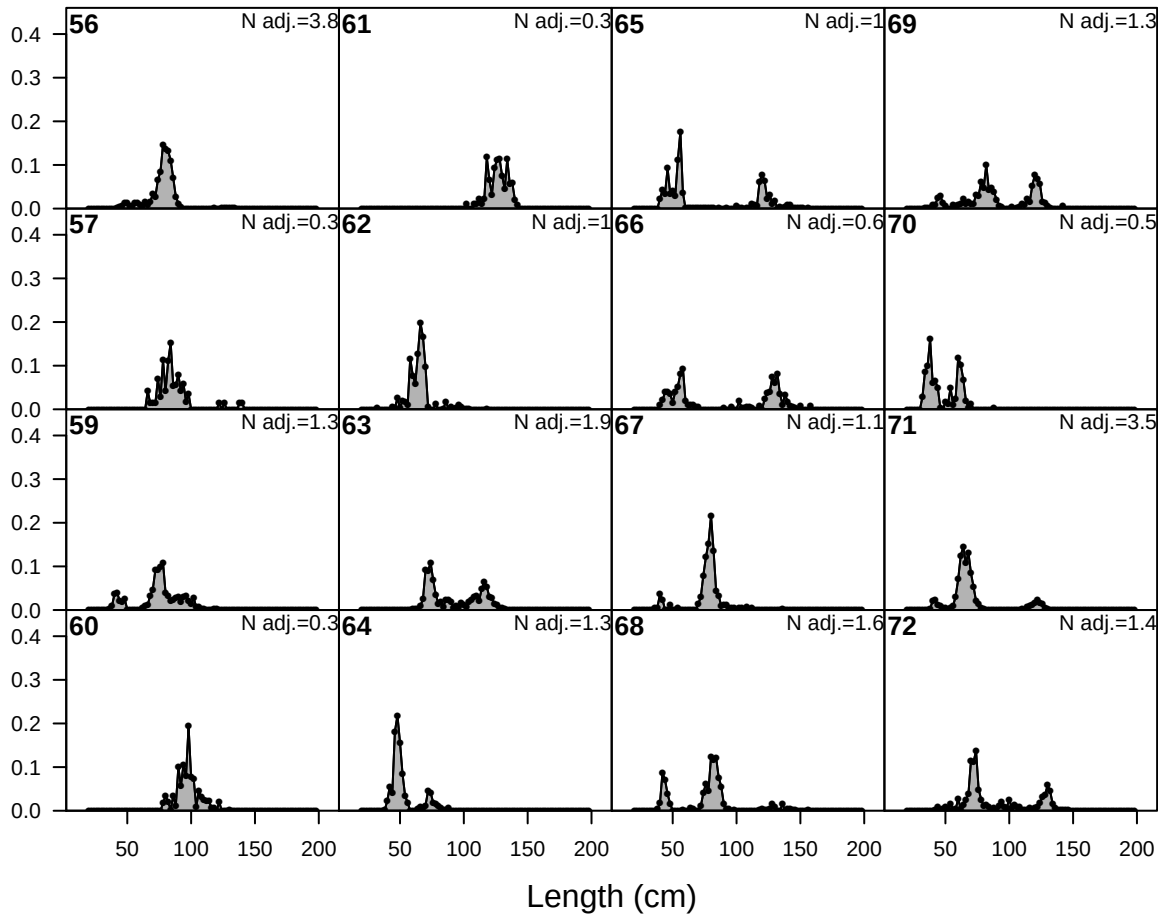
F13-NOA\_I (whole catch)



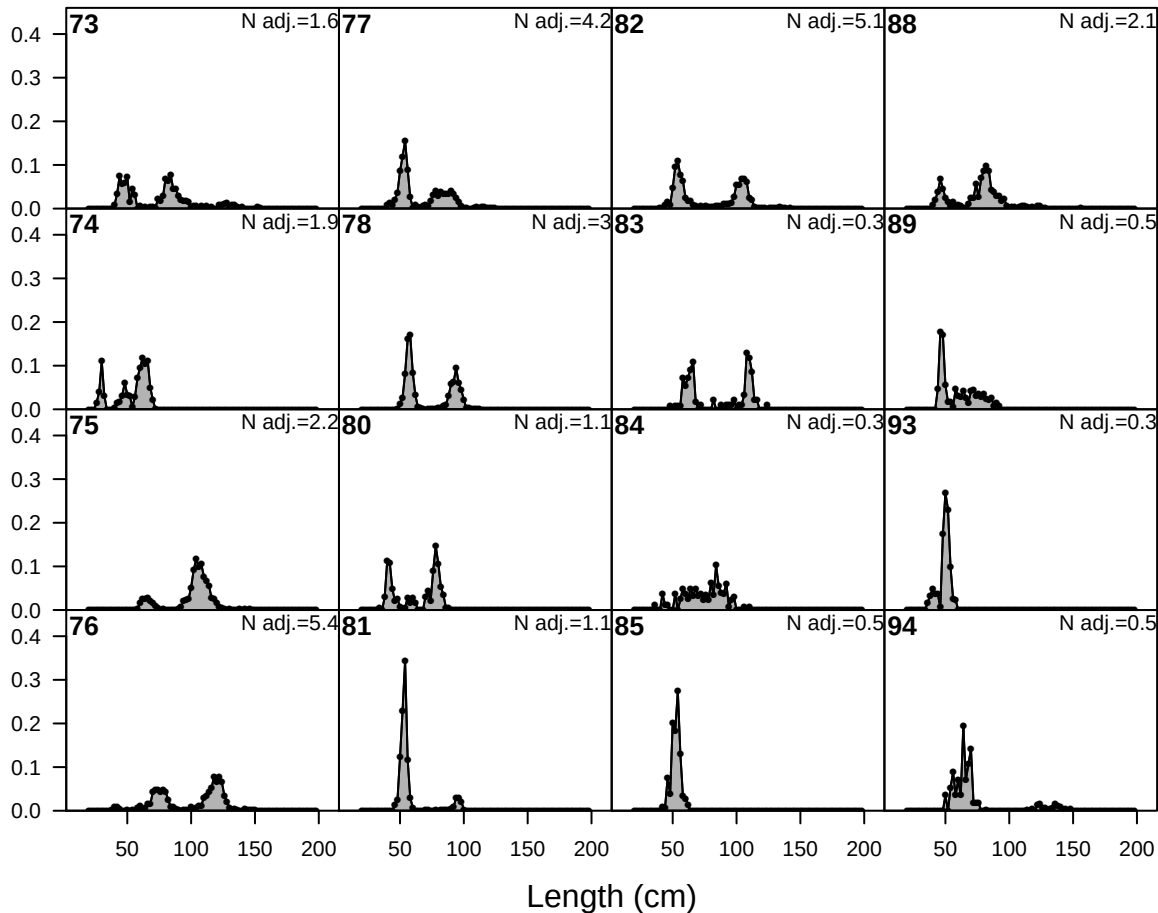
Proportion

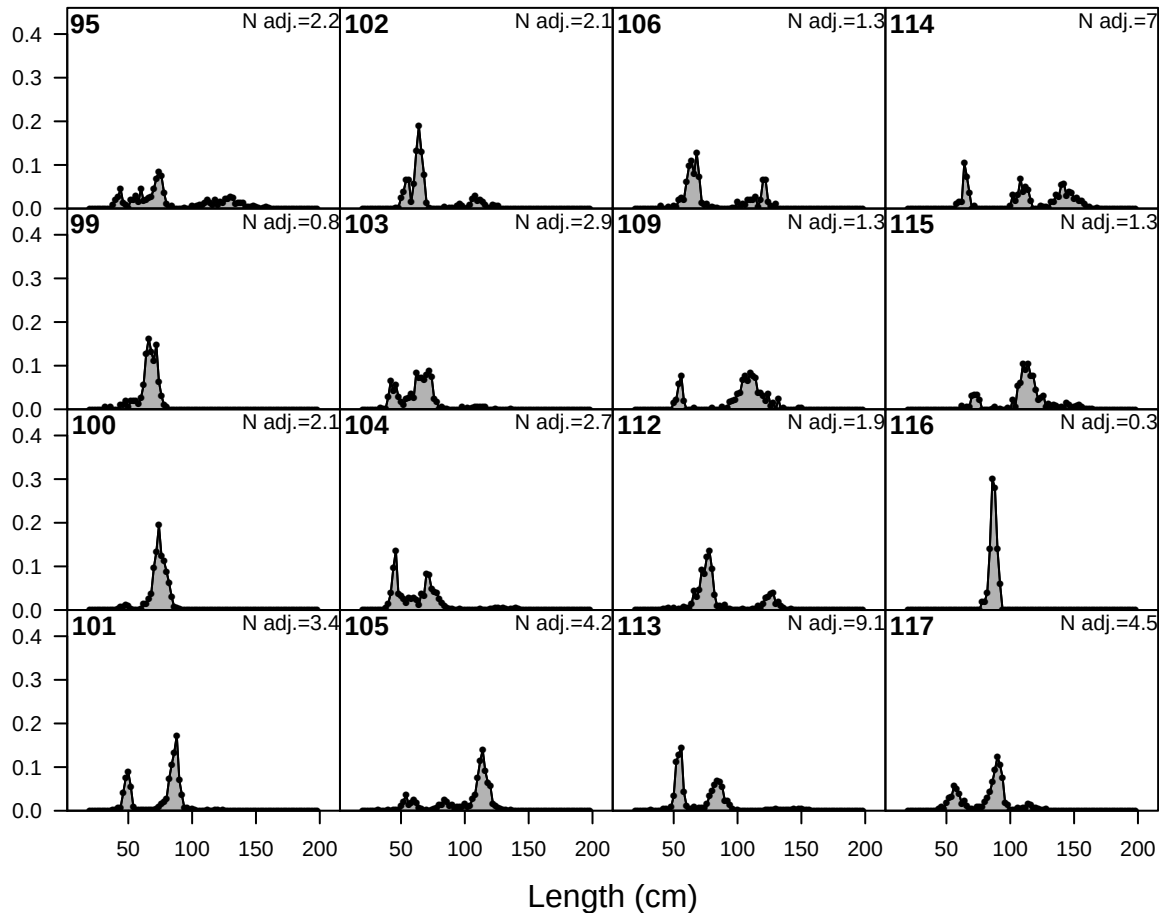


Proportion

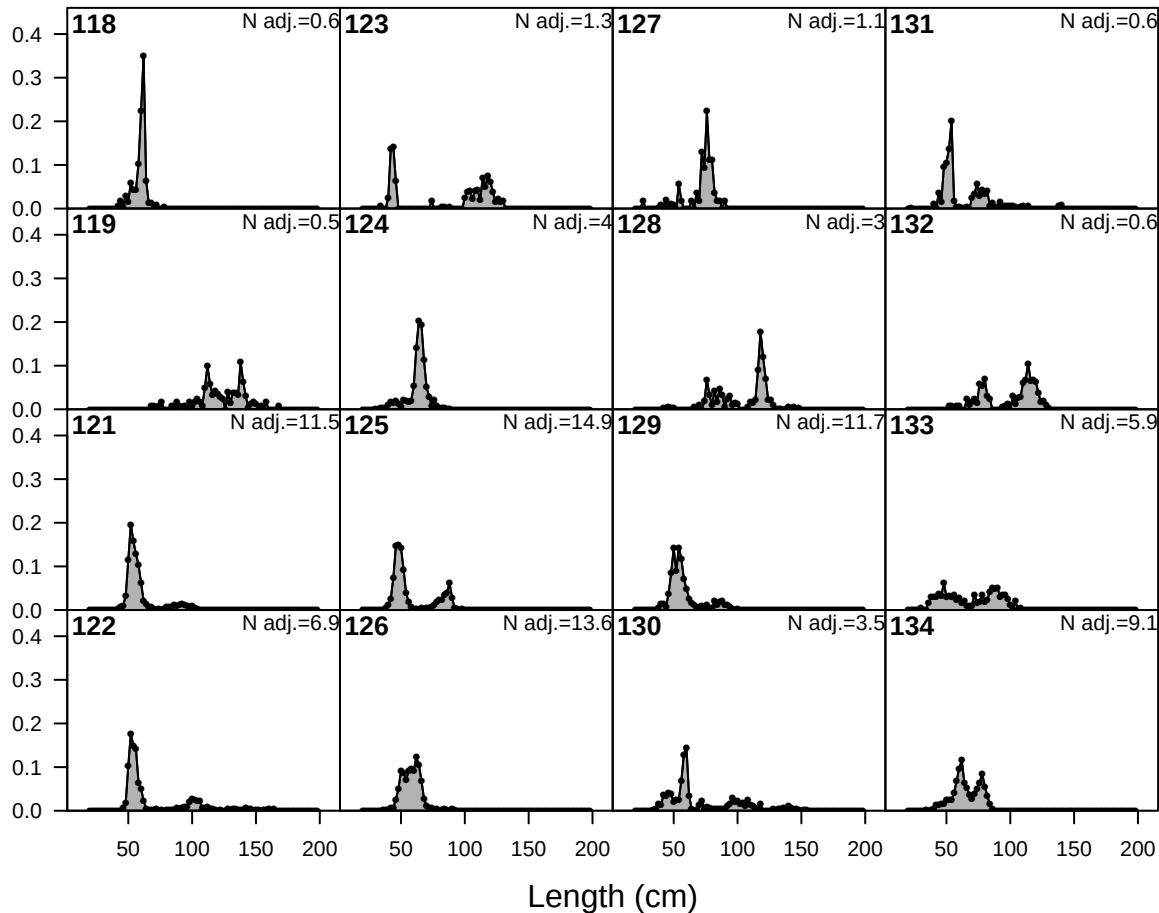


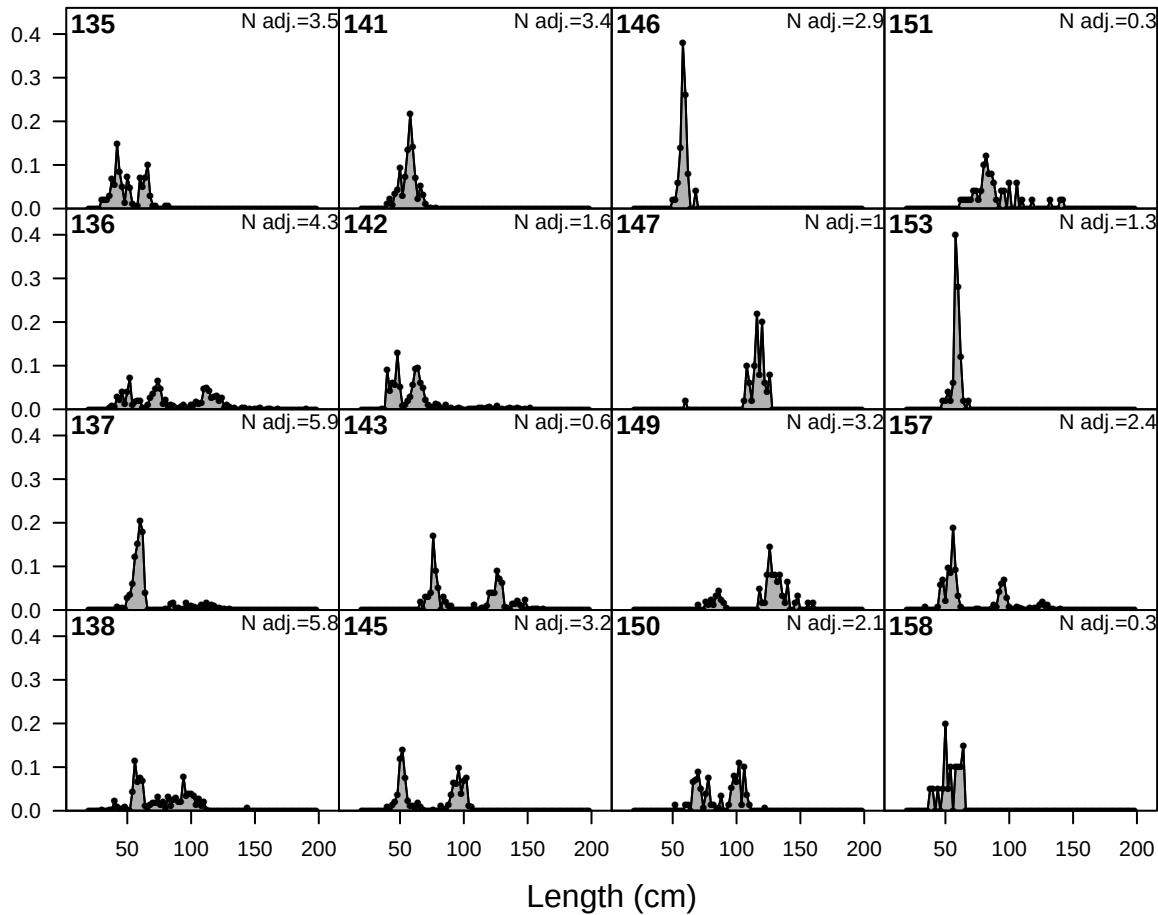
Proportion



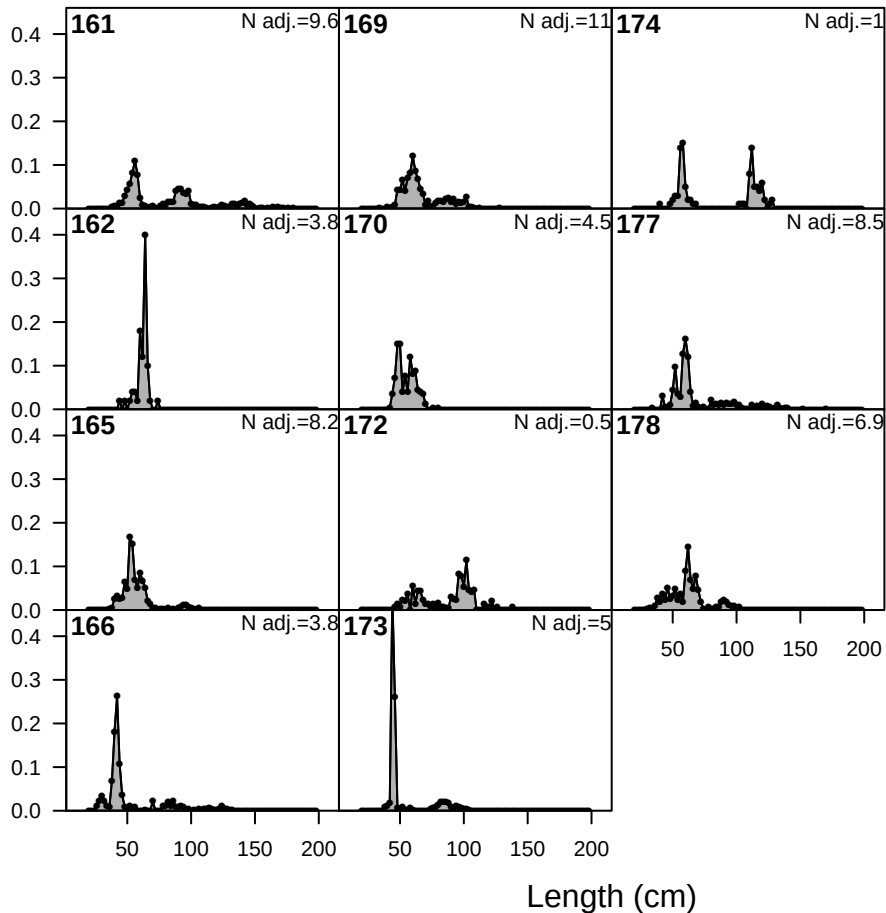


Proportion

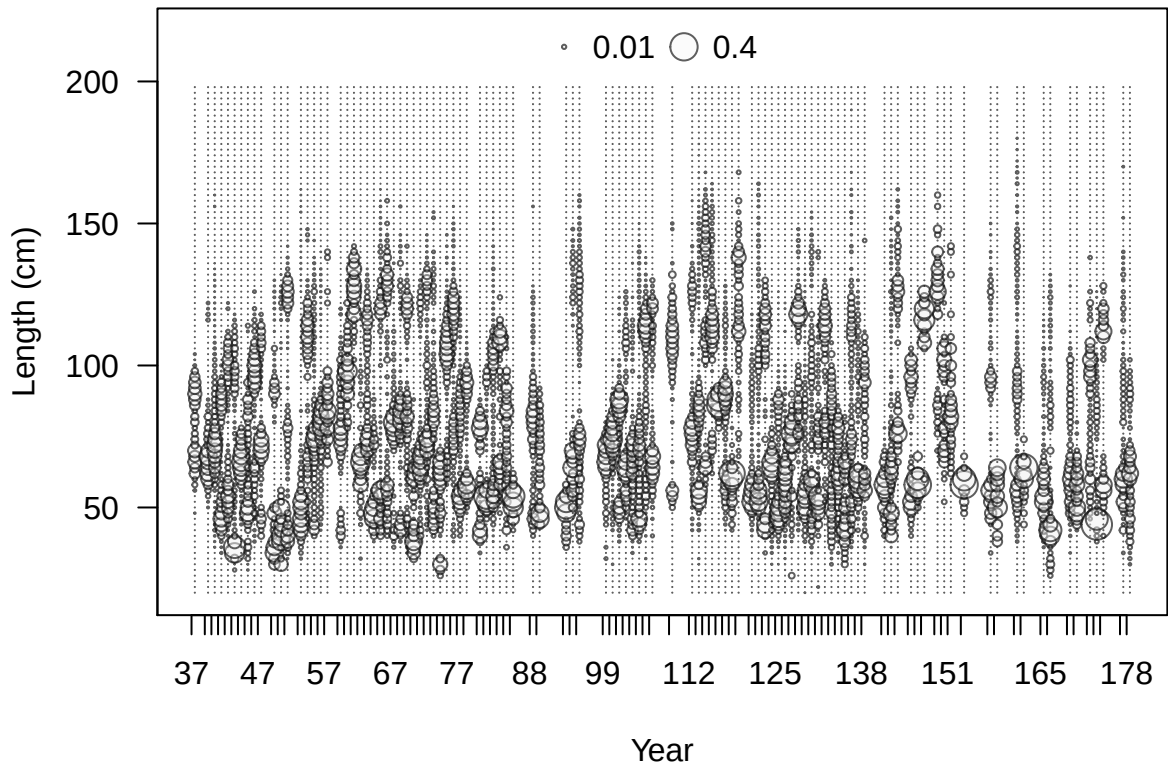




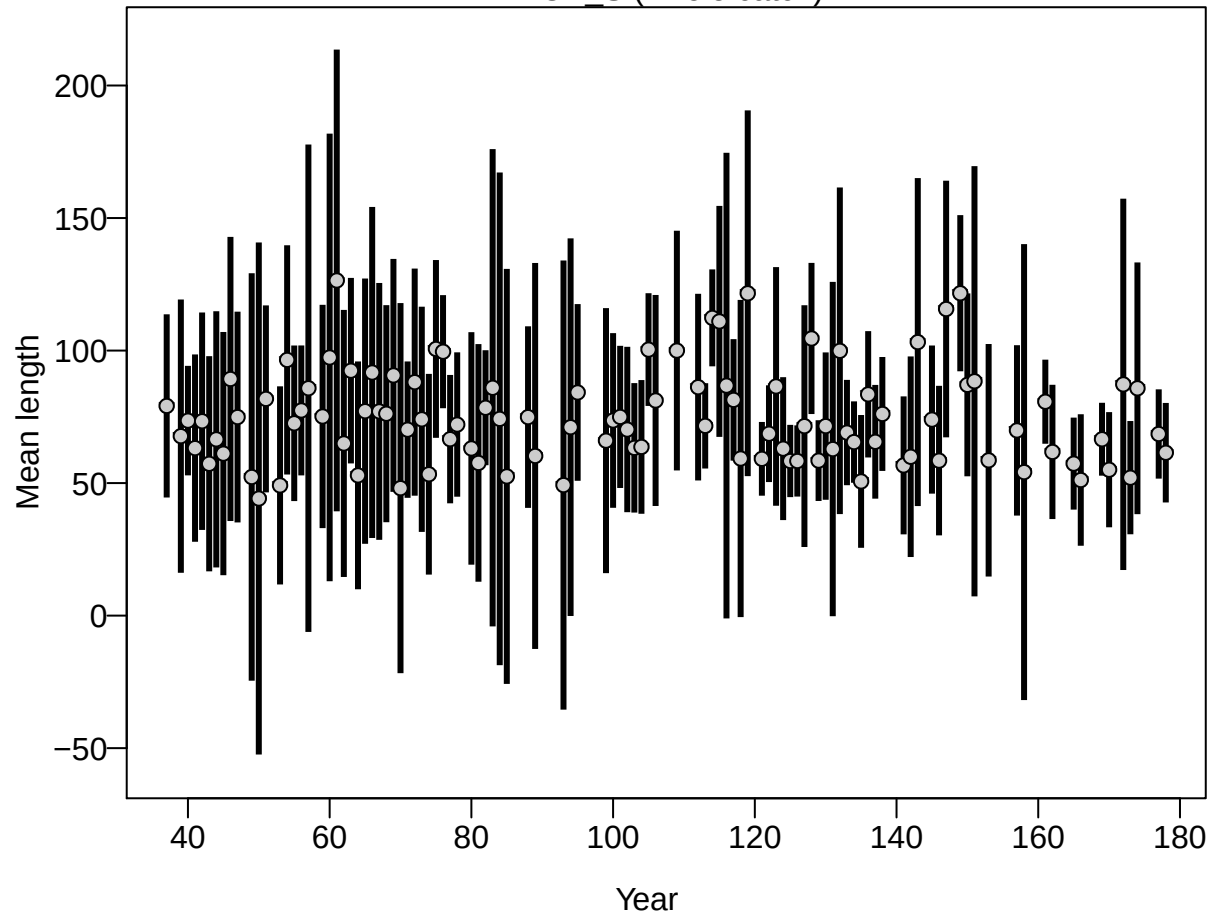
Proportion

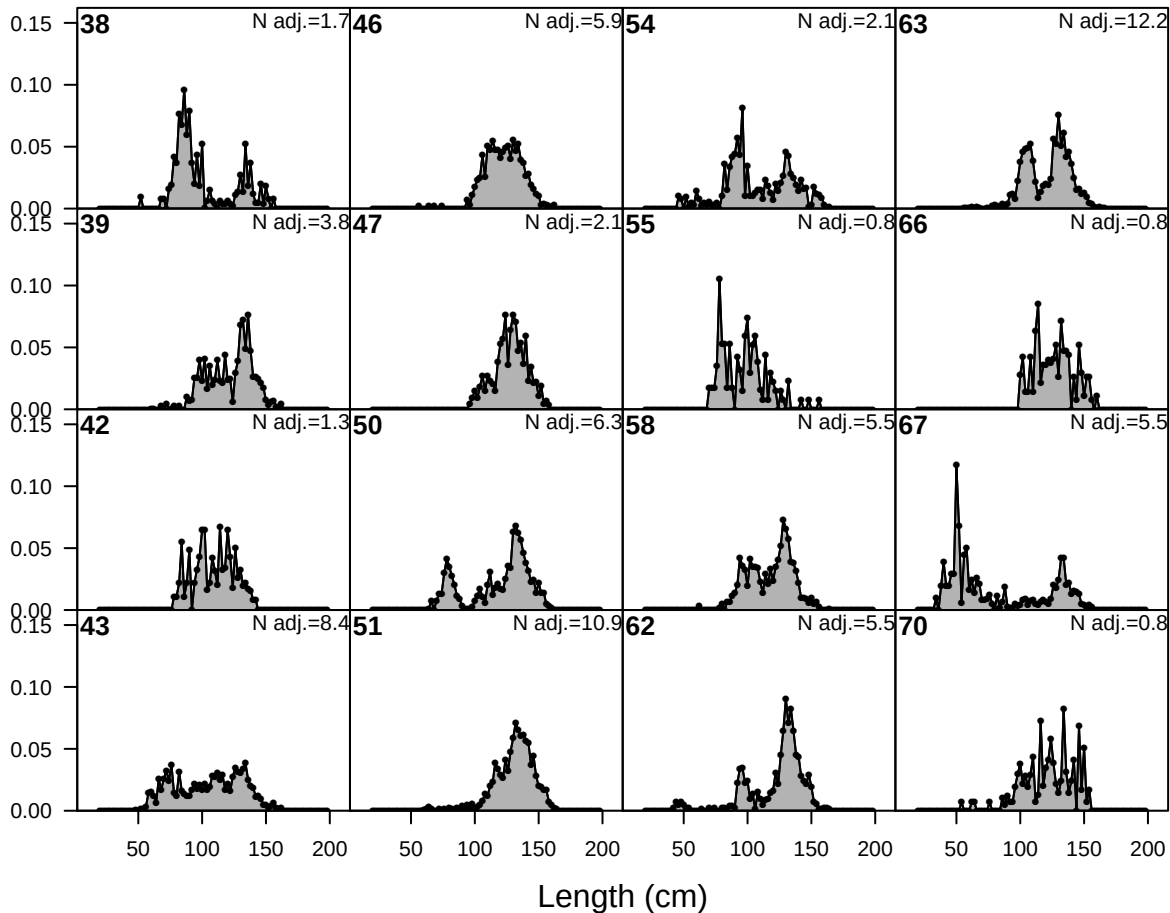




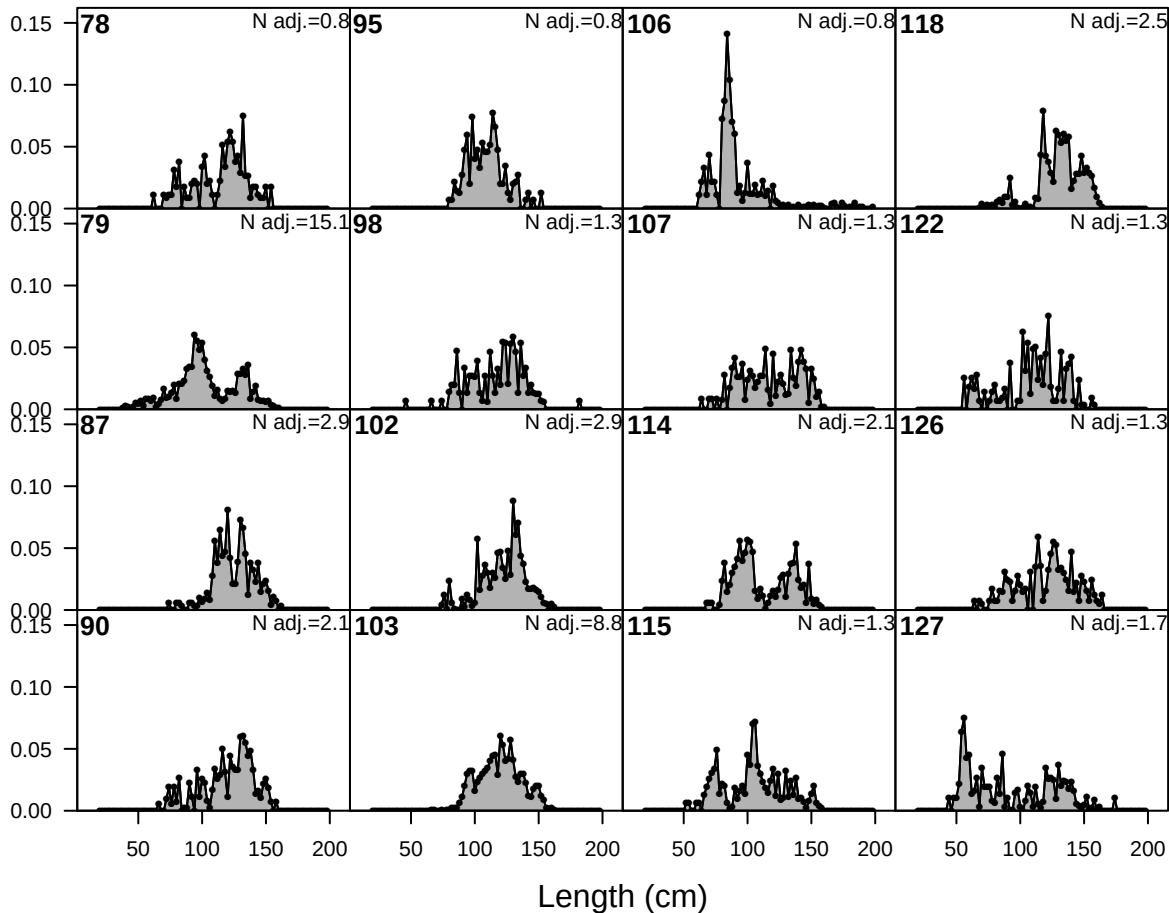


F14-NOA\_S (whole catch)

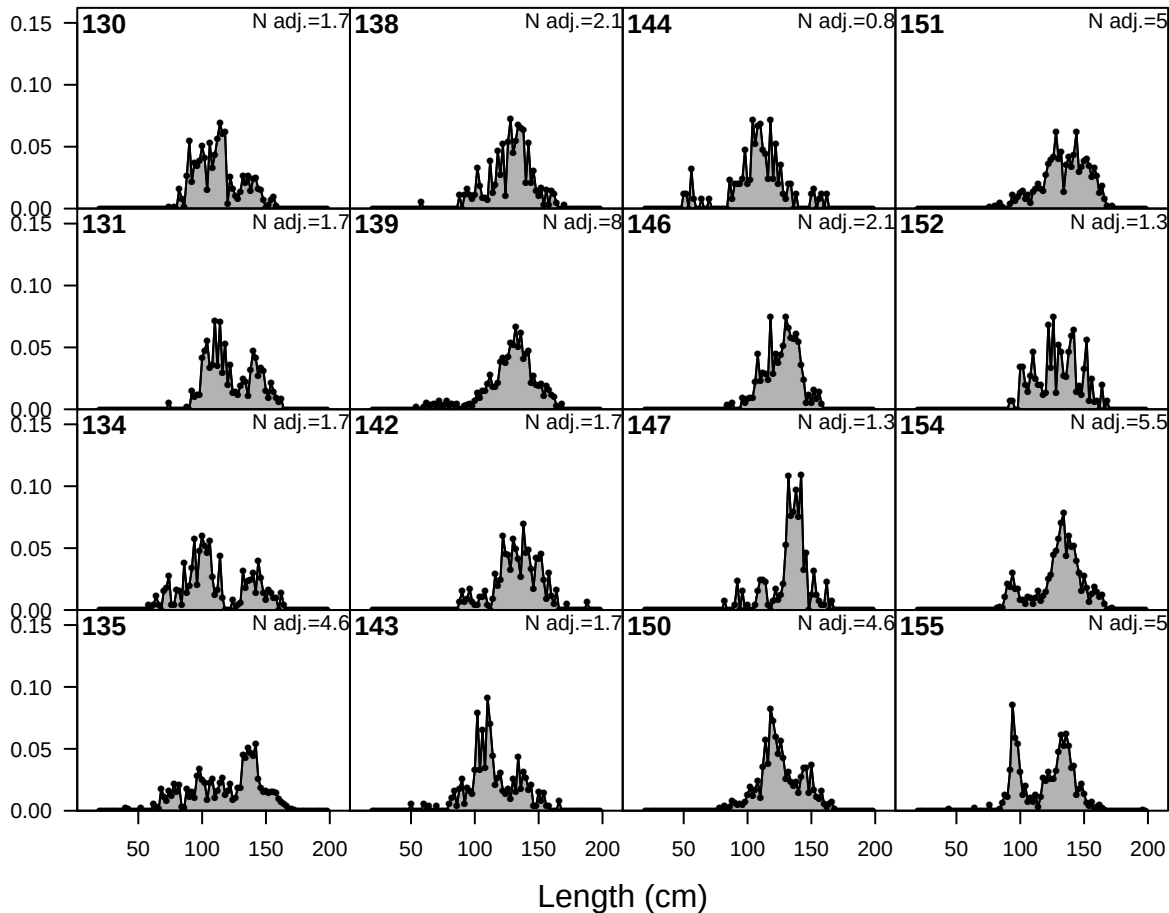




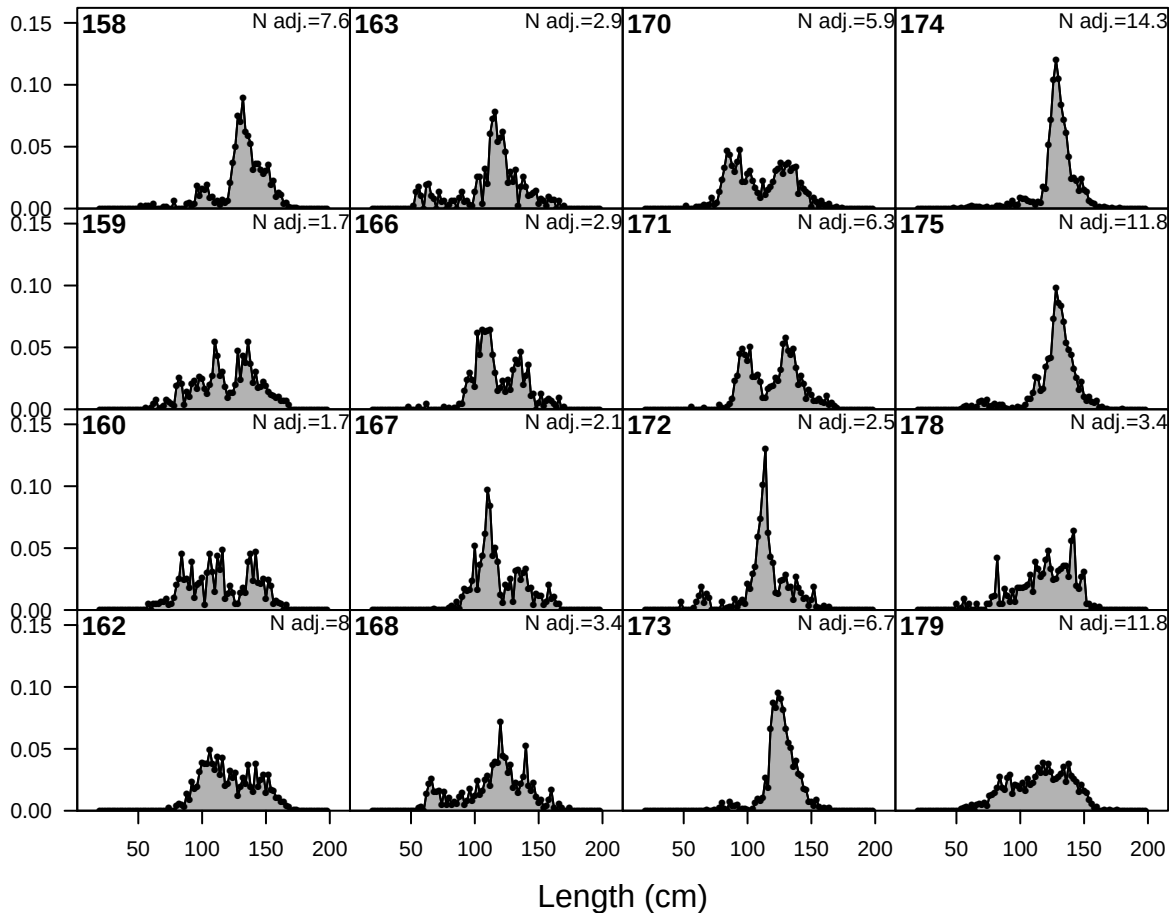
Proportion

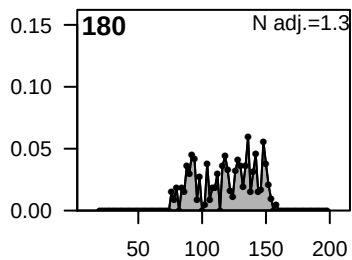


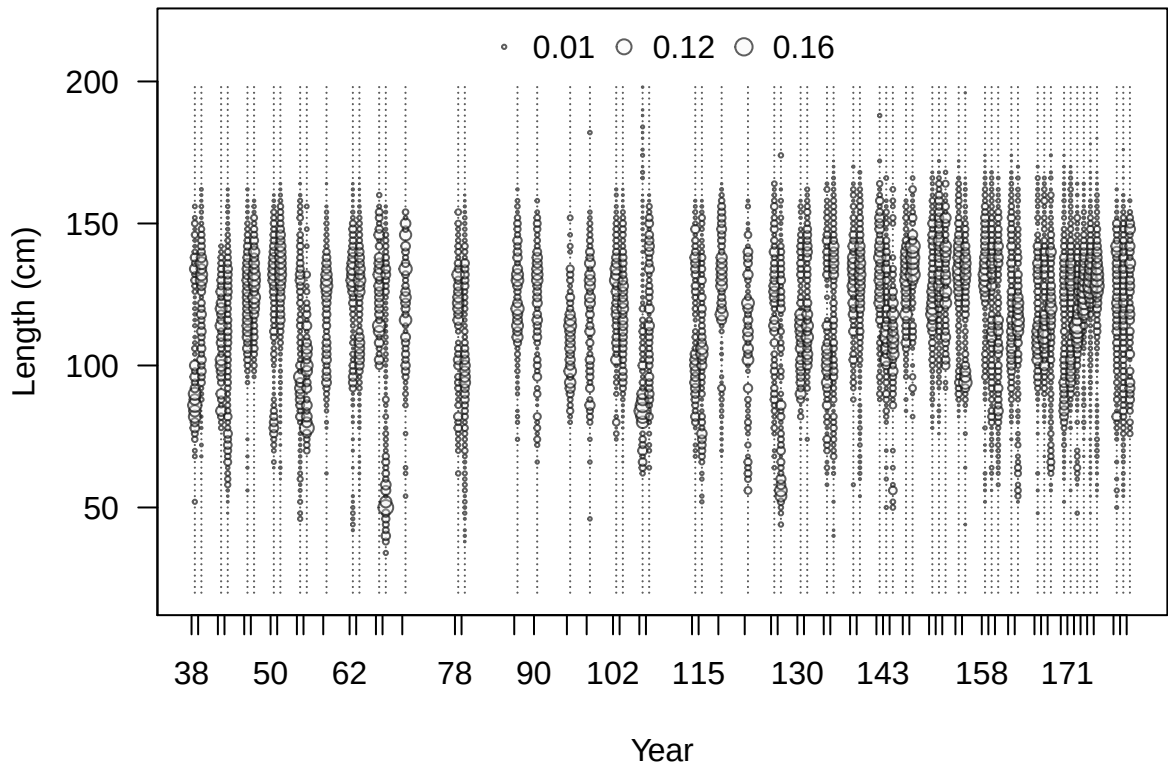
Proportion



Proportion

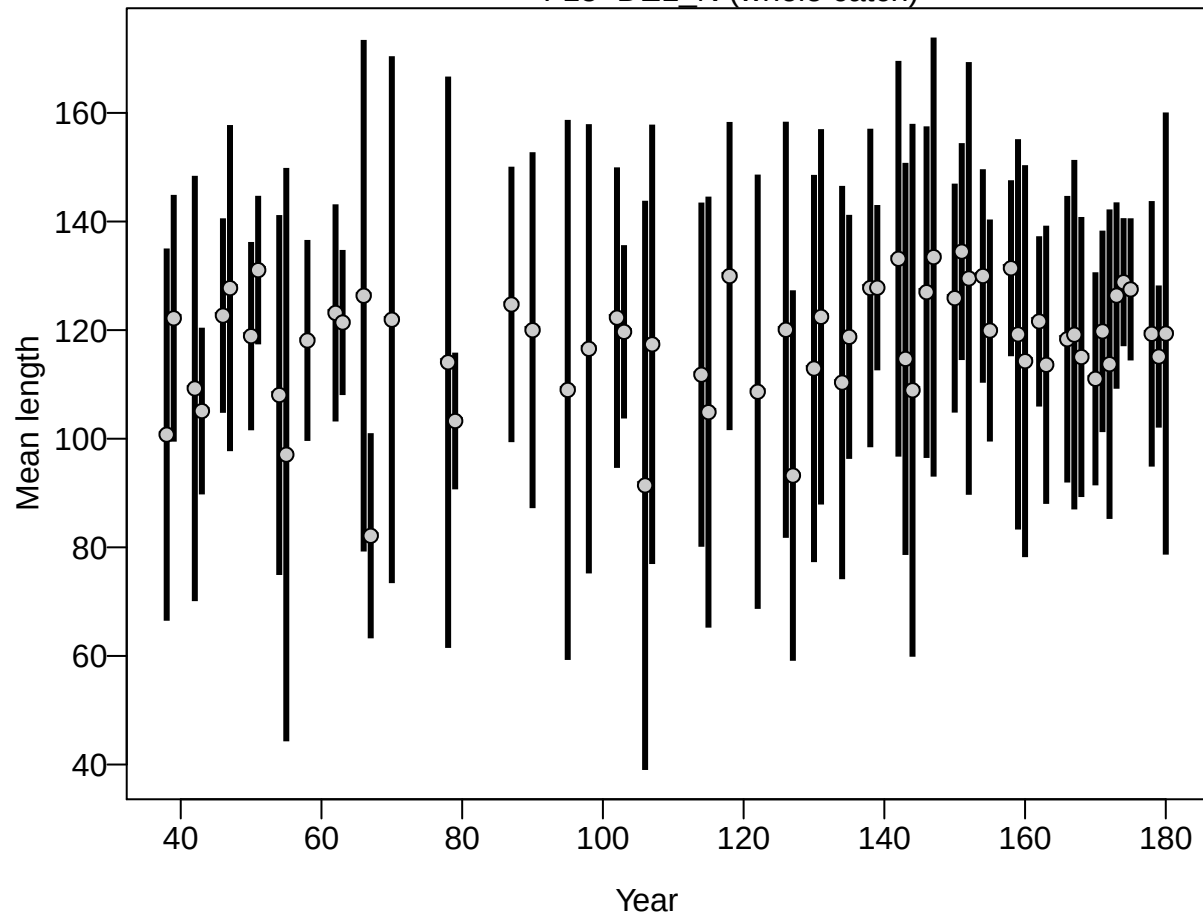


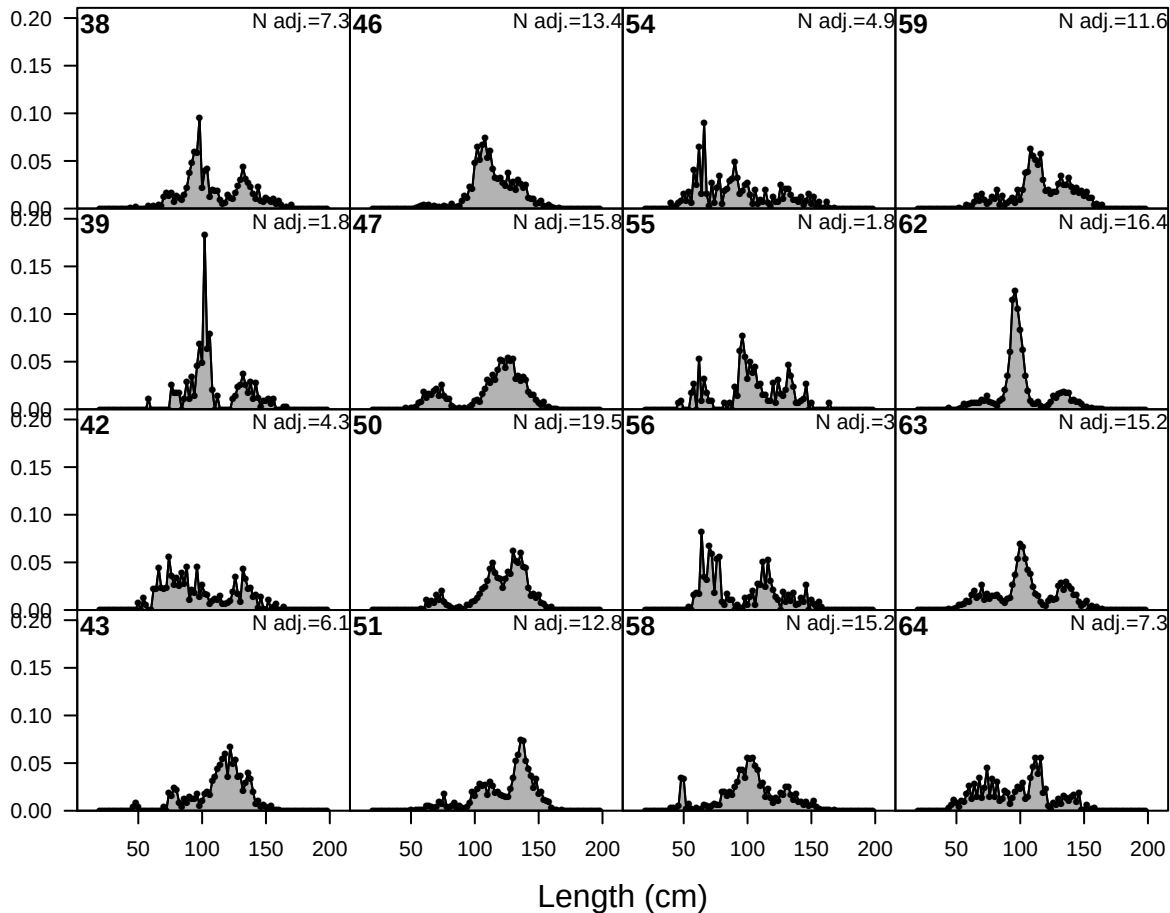




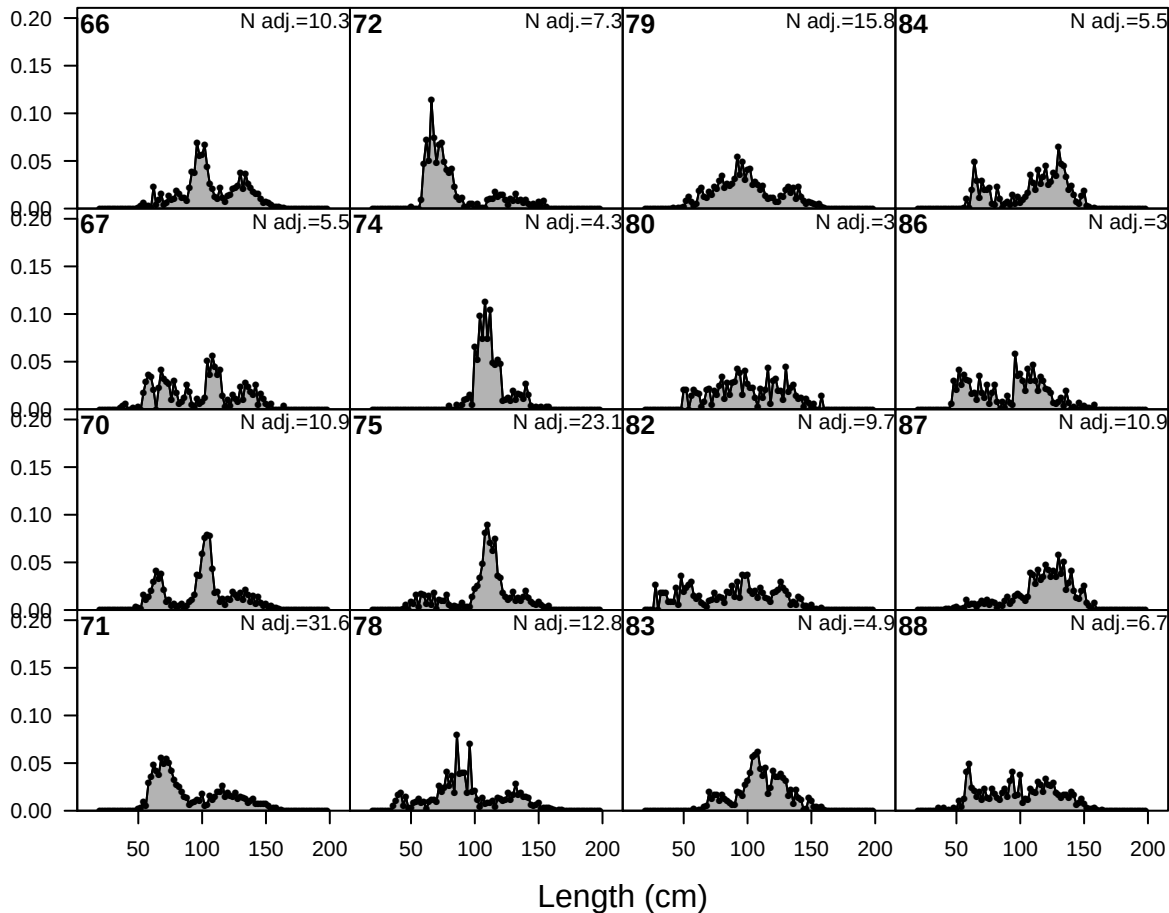


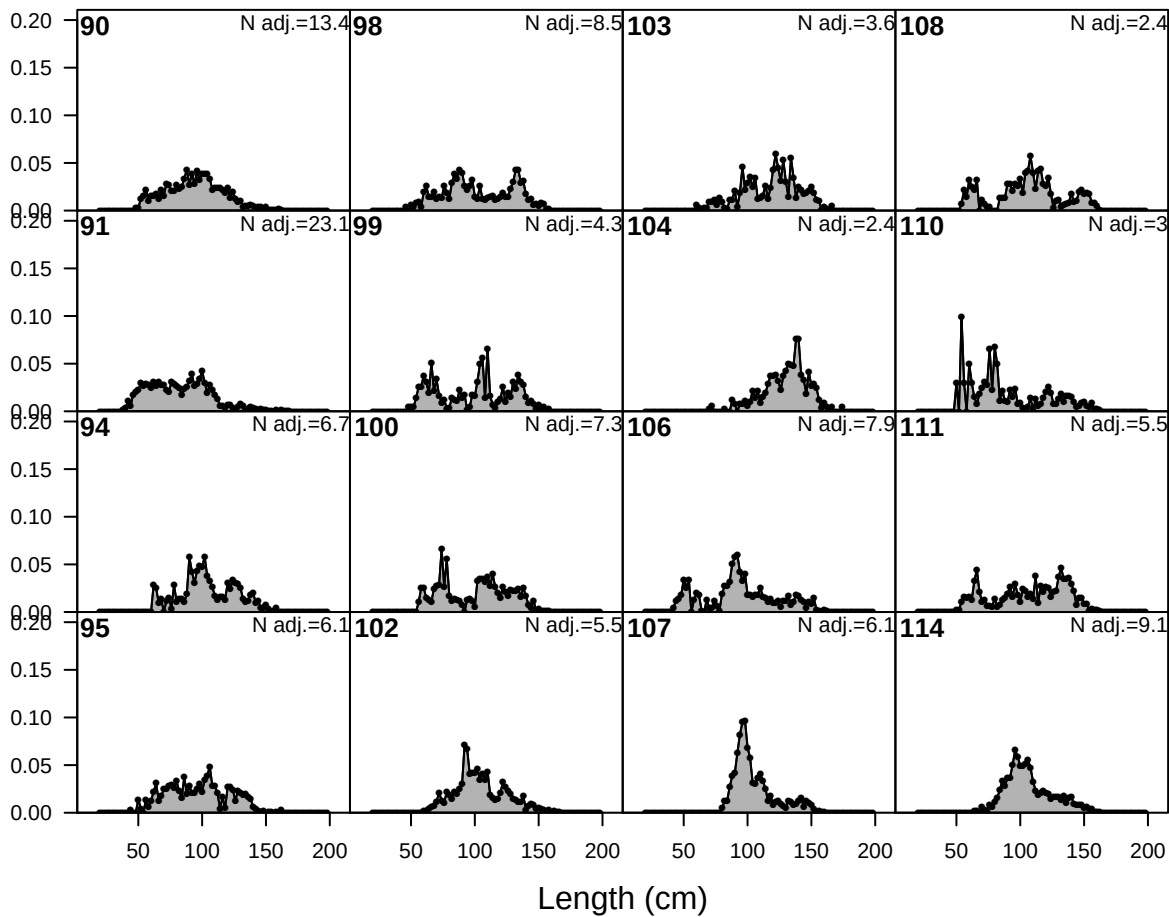
F15-DEL\_N (whole catch)



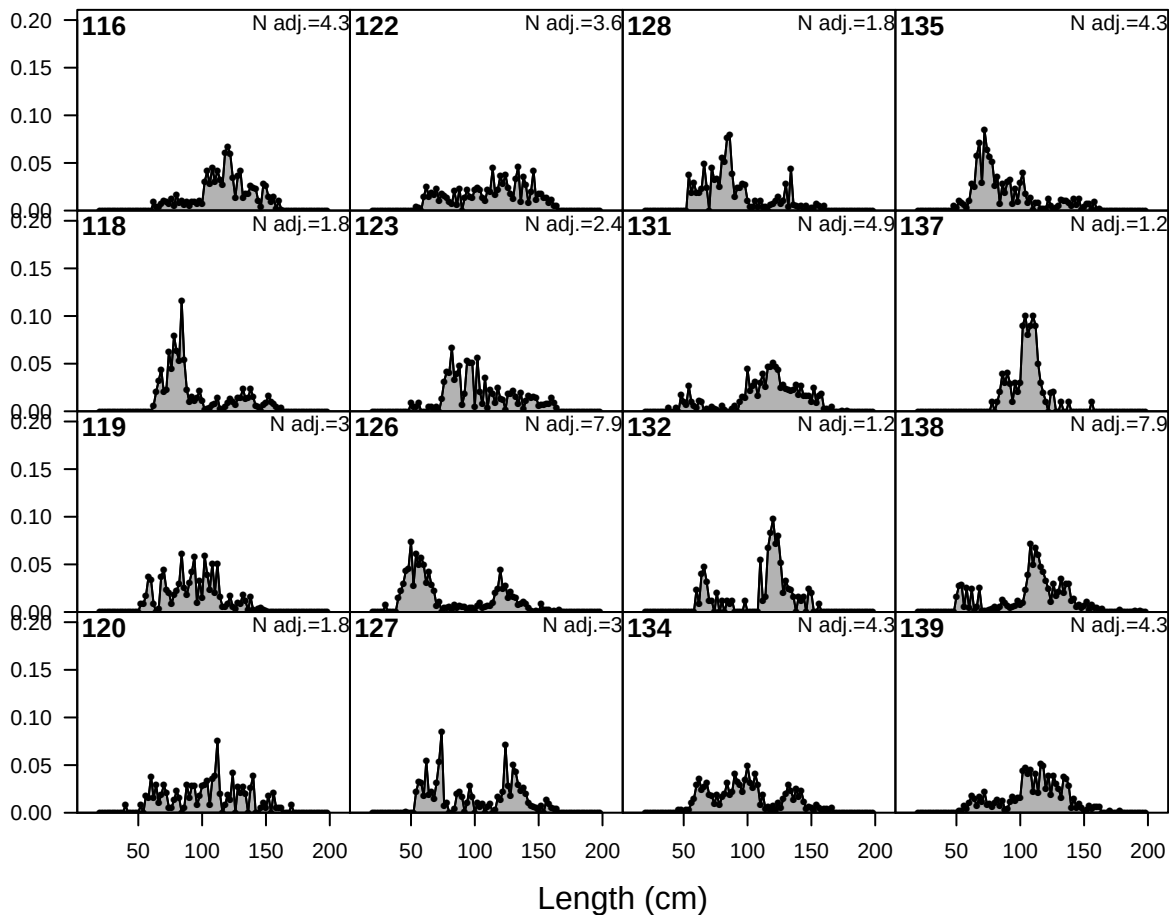


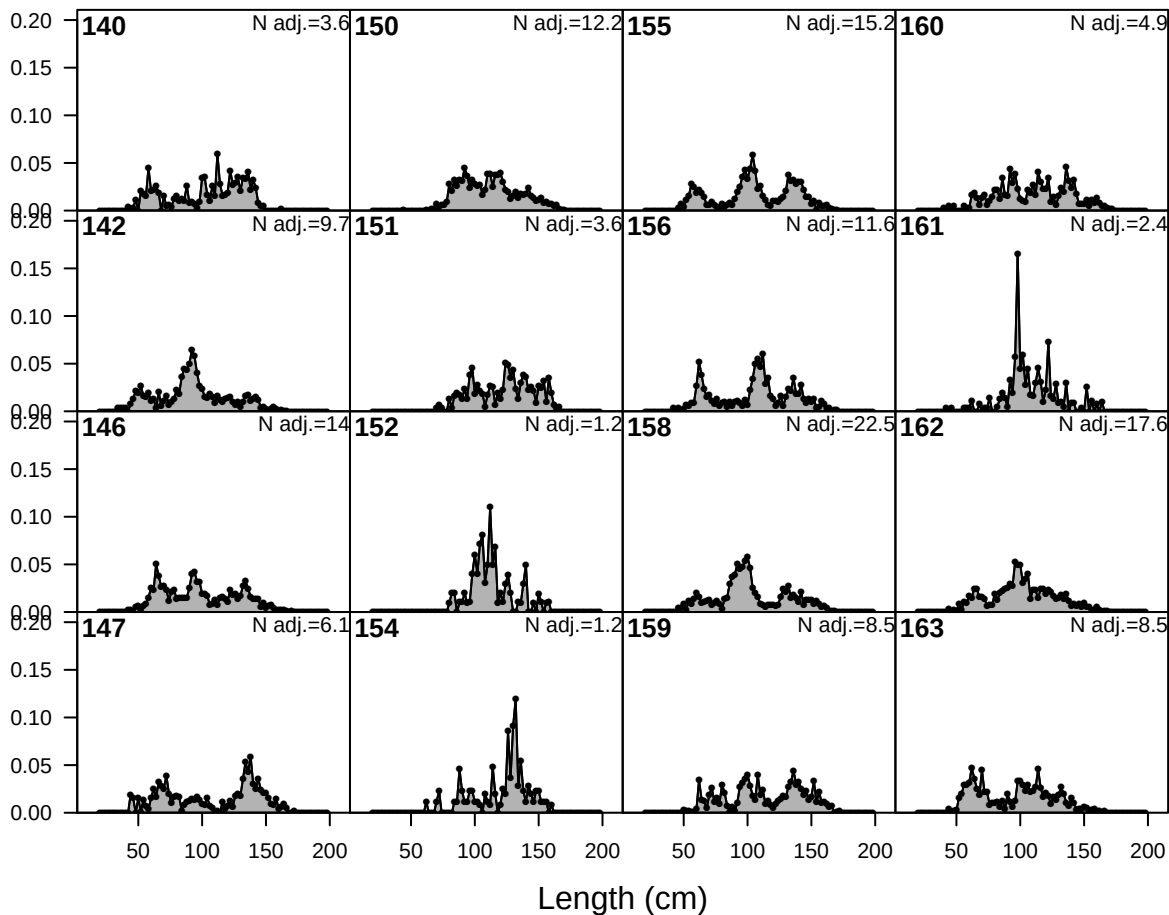
Proportion



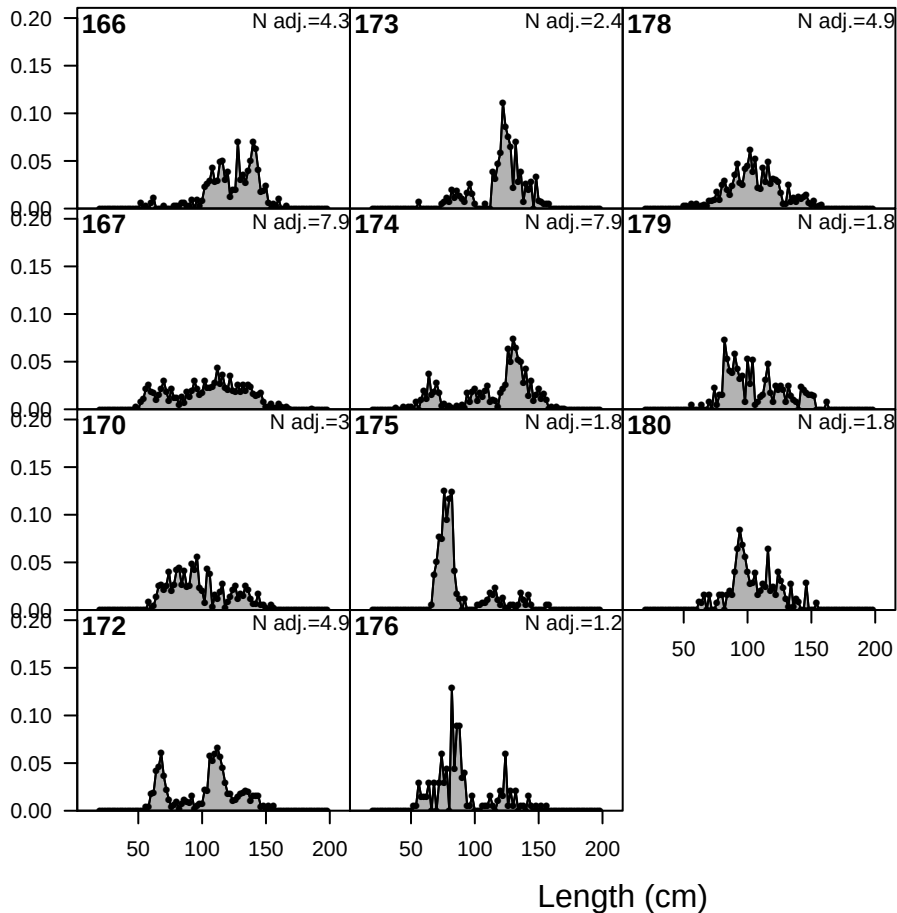


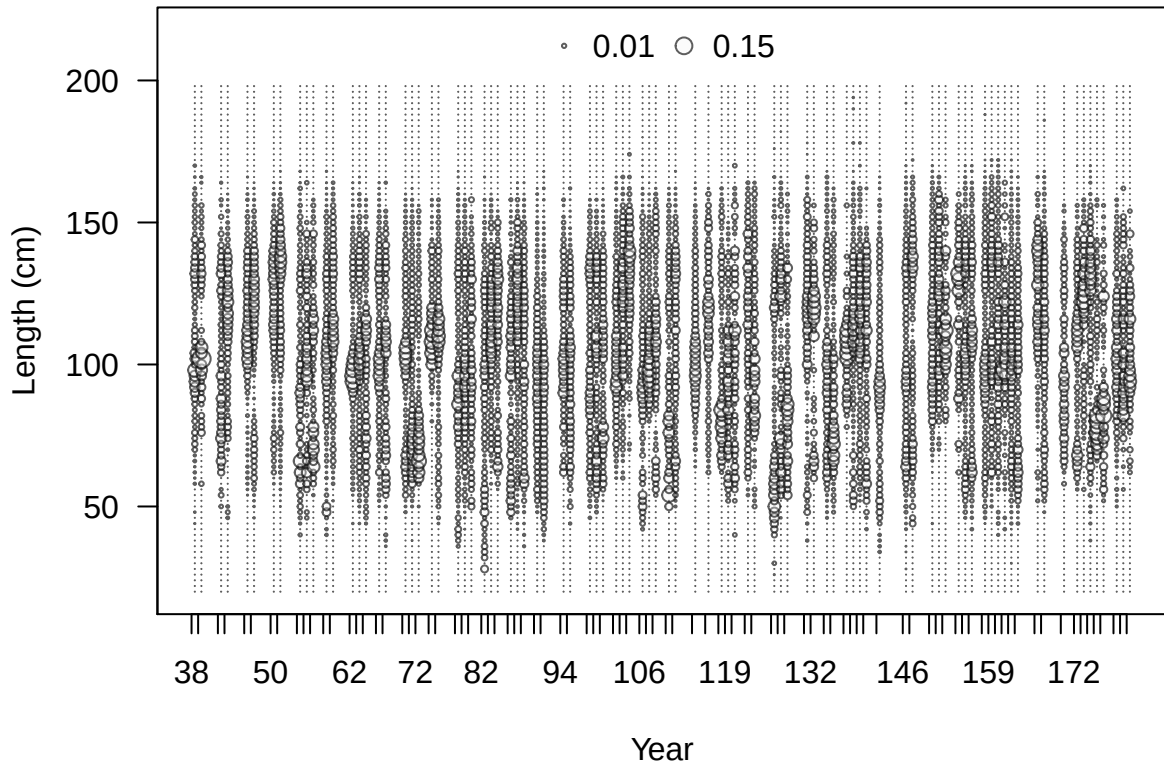
Proportion





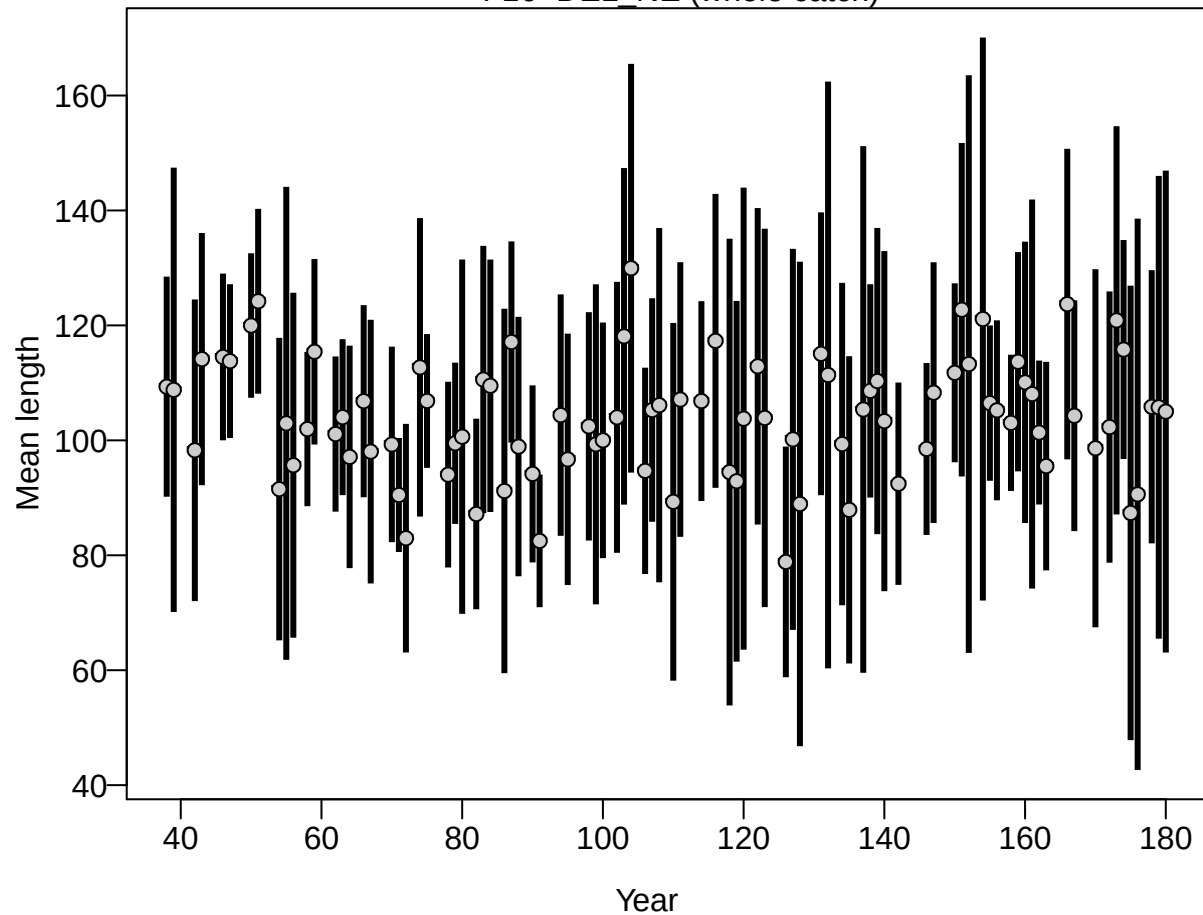
Proportion



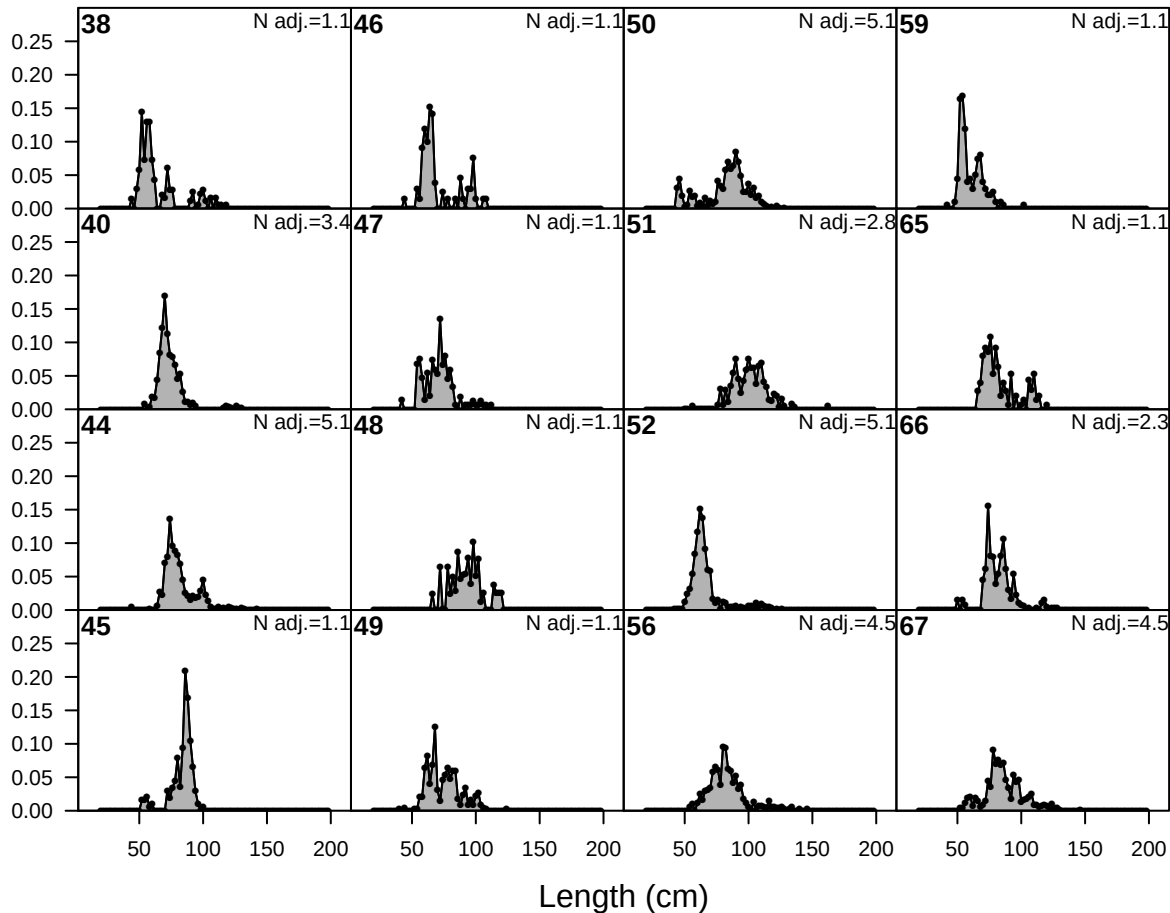




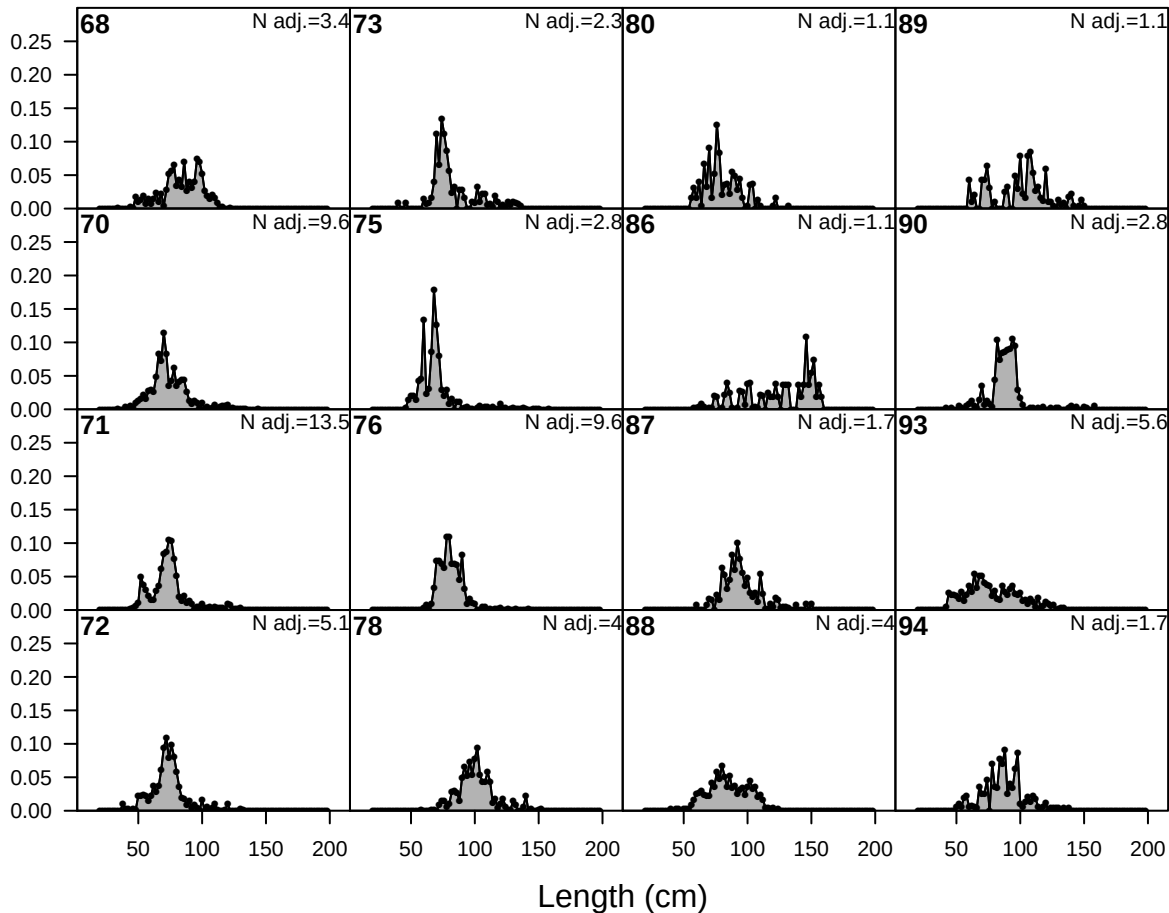
F16-DEL\_NE (whole catch)

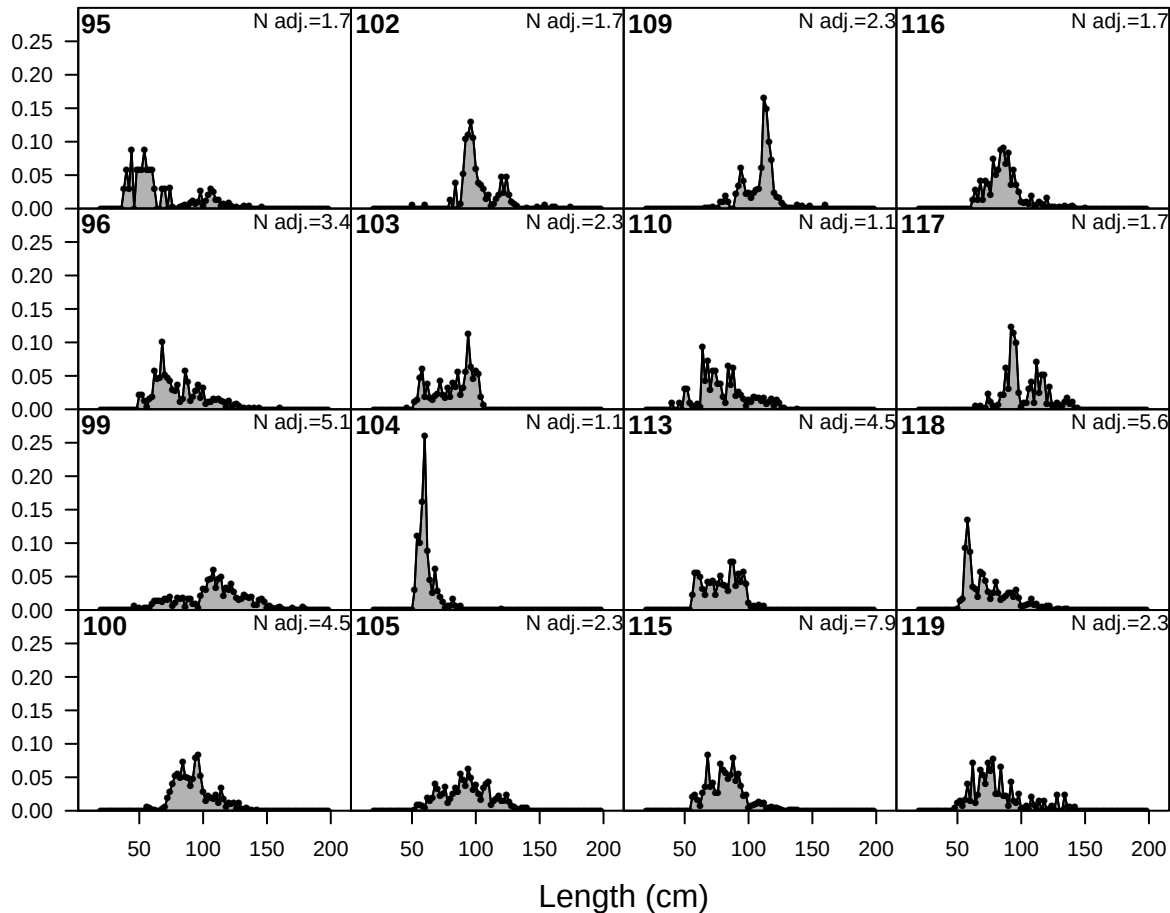


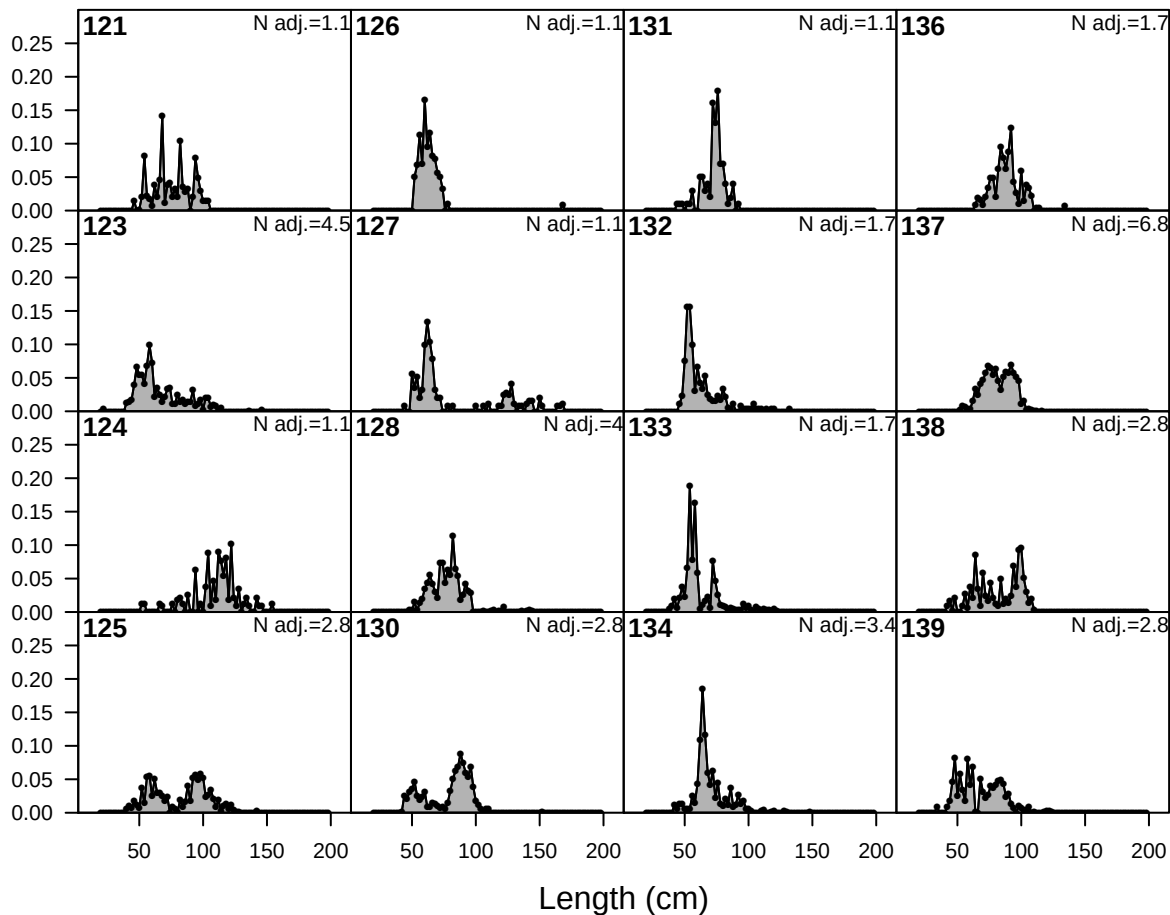
Proportion

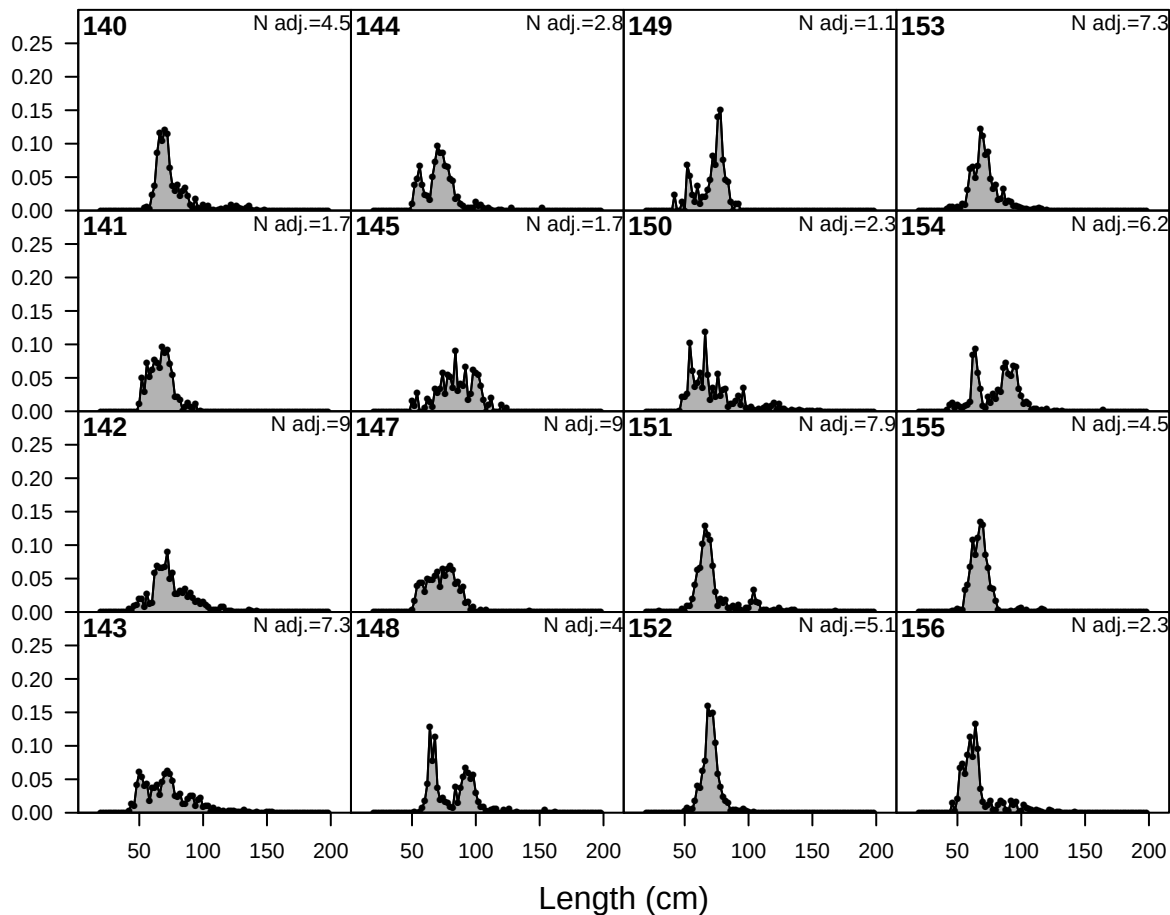


Proportion

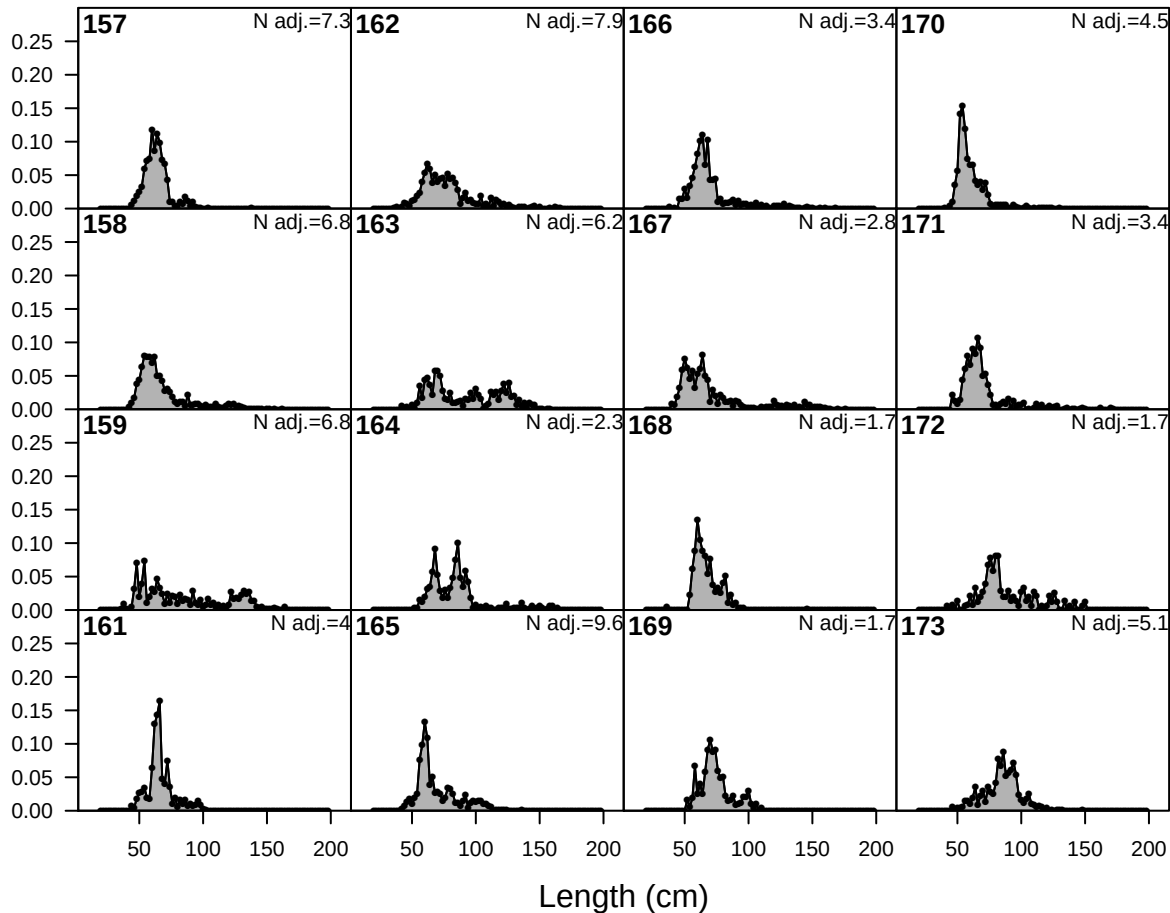




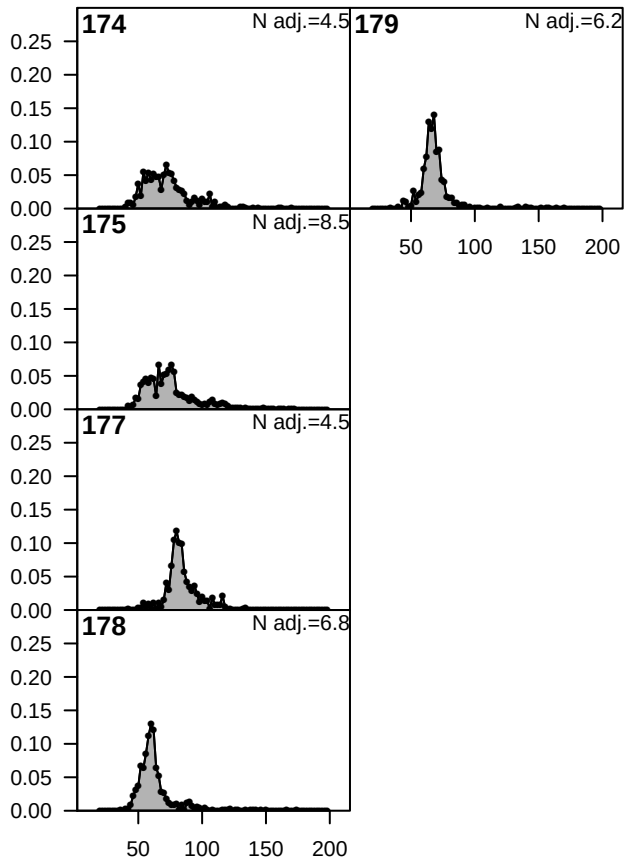




Proportion

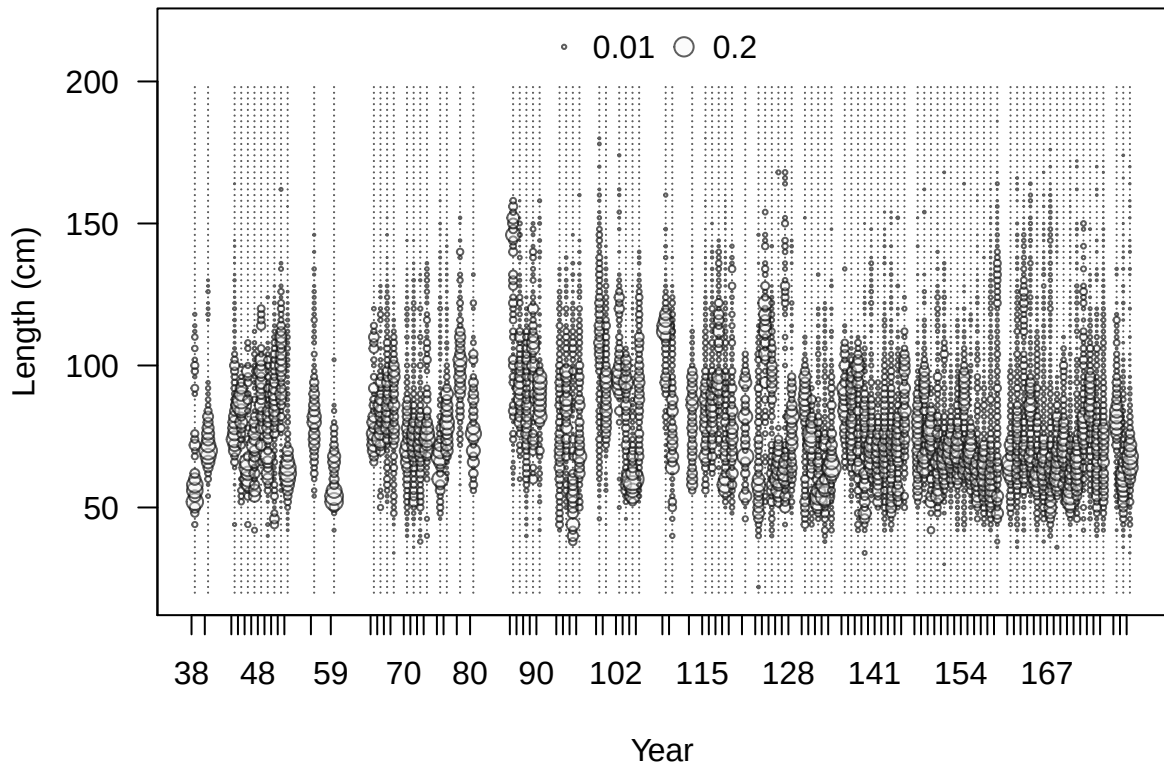


Proportion

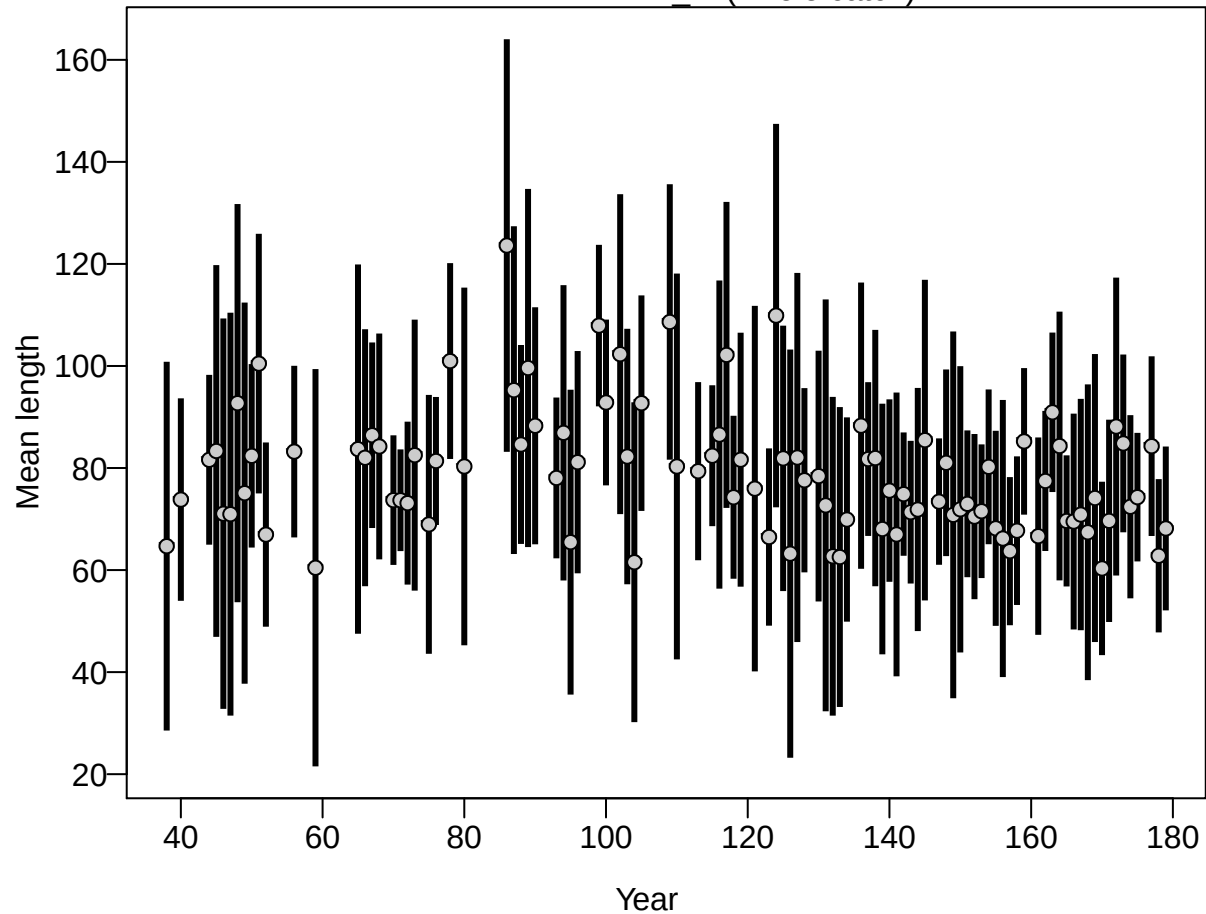


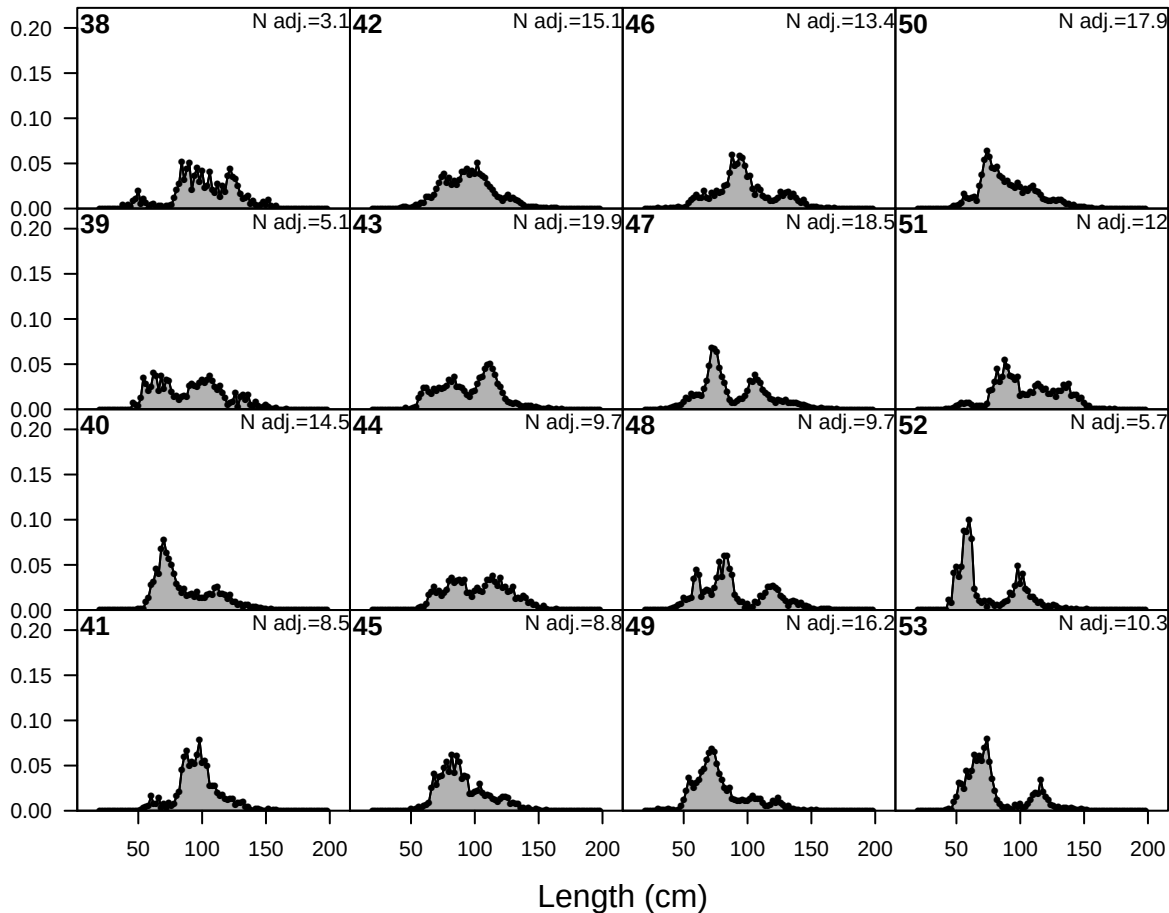
Length (cm)

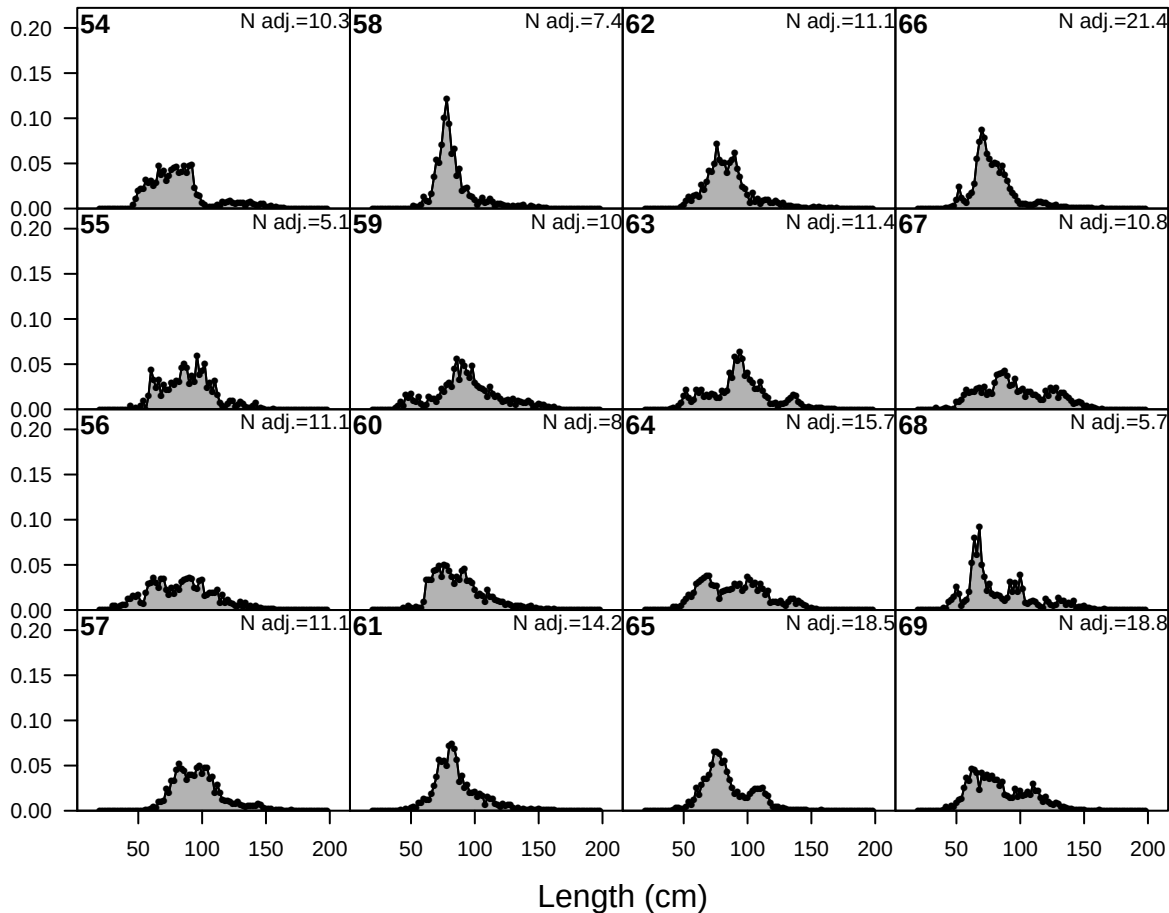


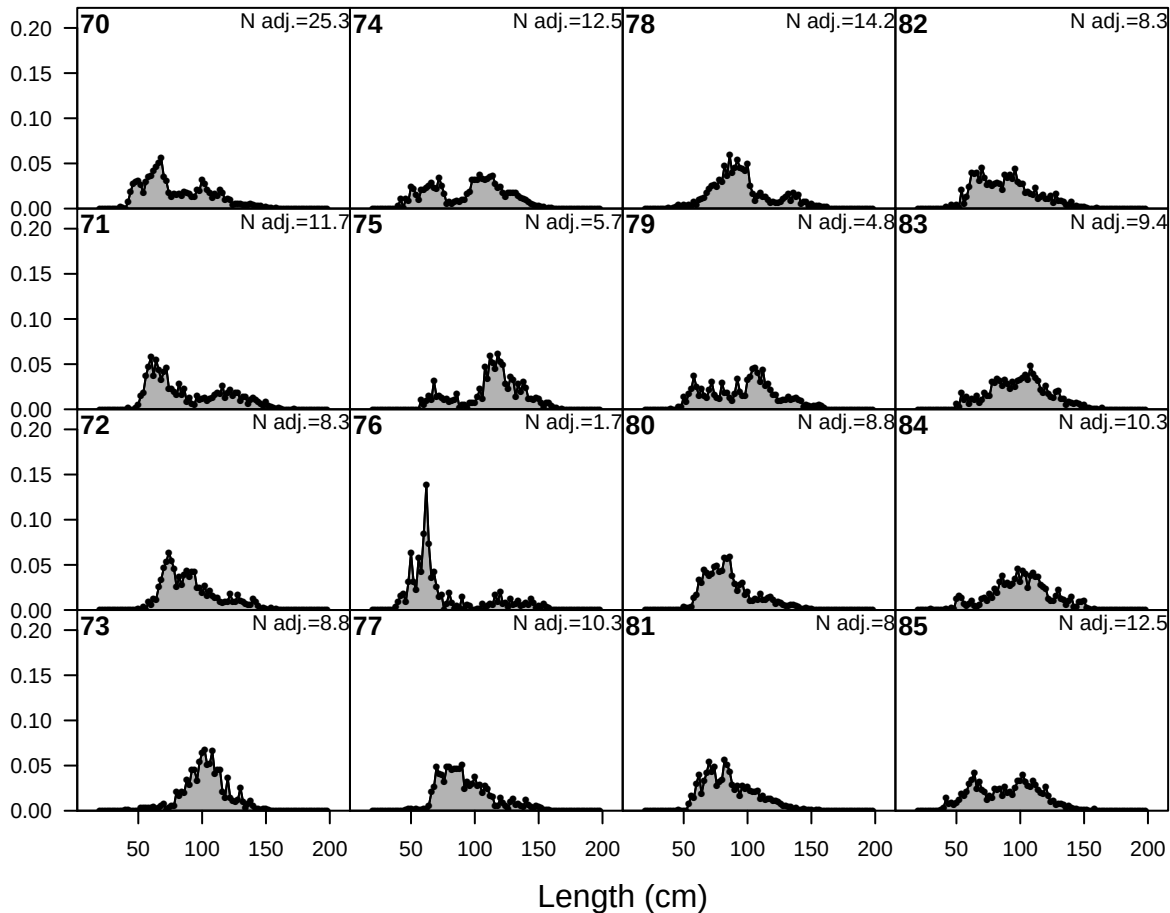


F17-DEL\_M (whole catch)

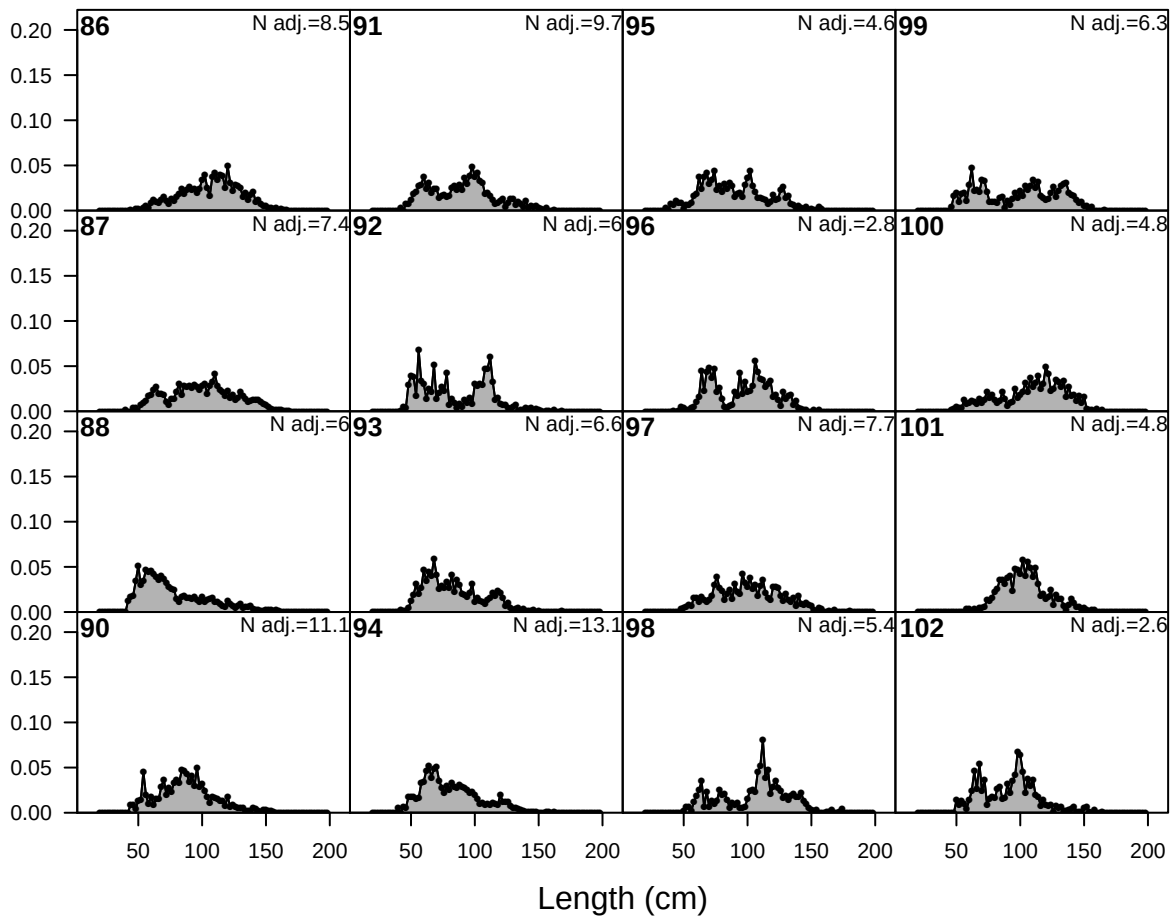


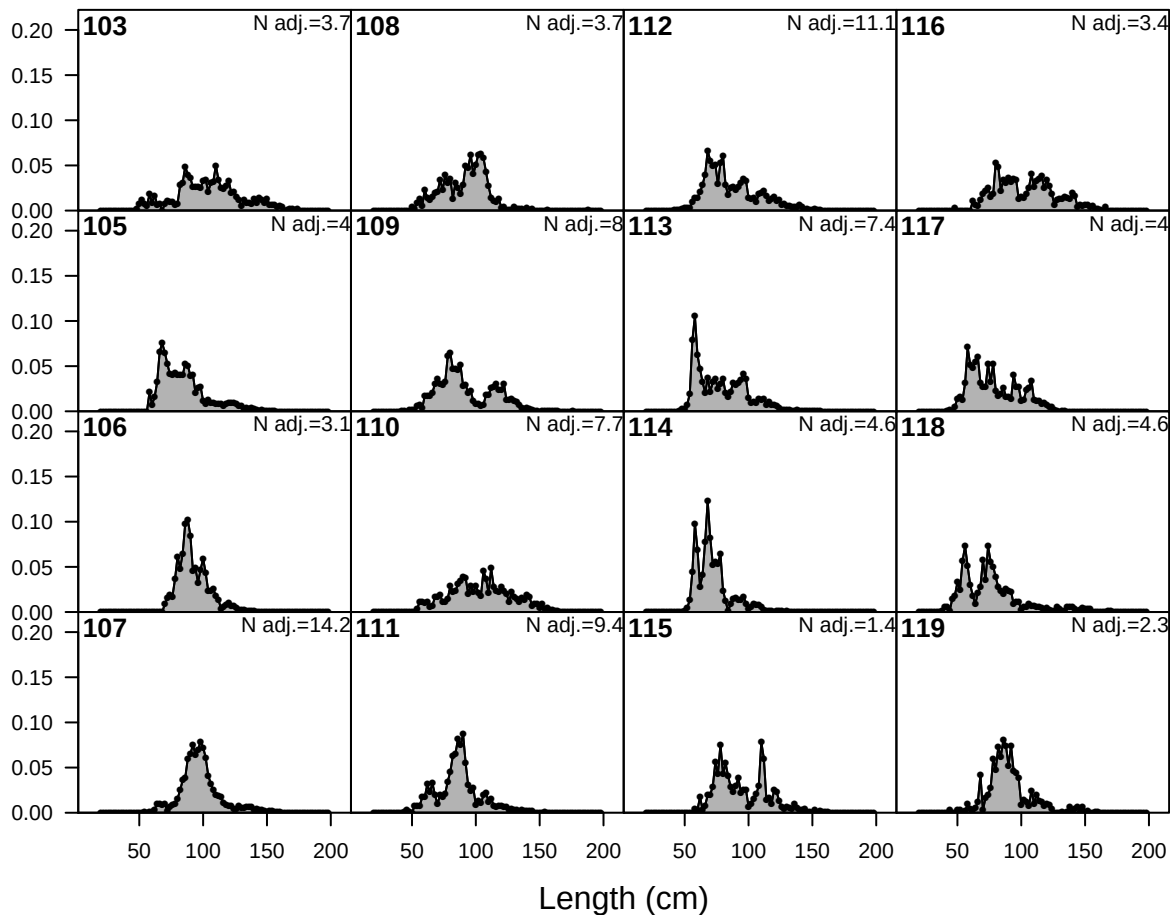


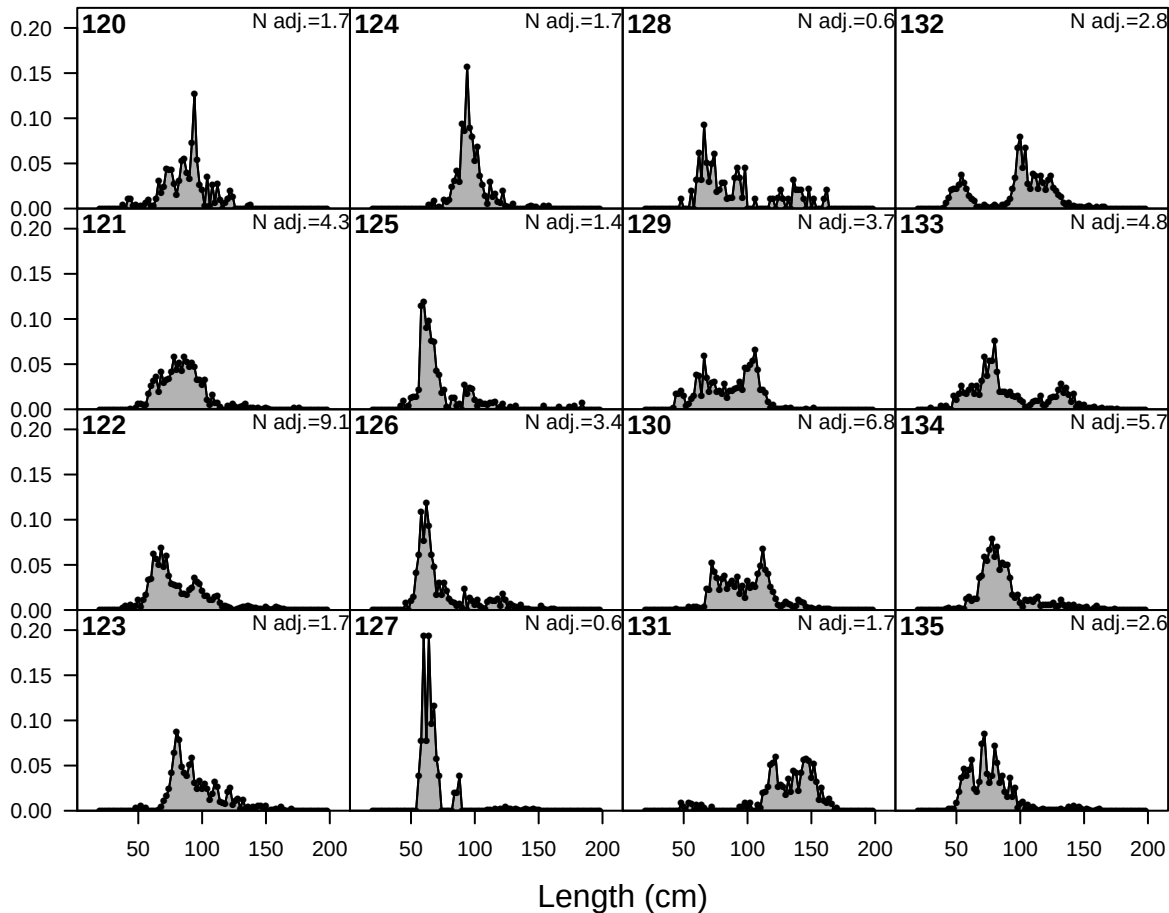




Proportion

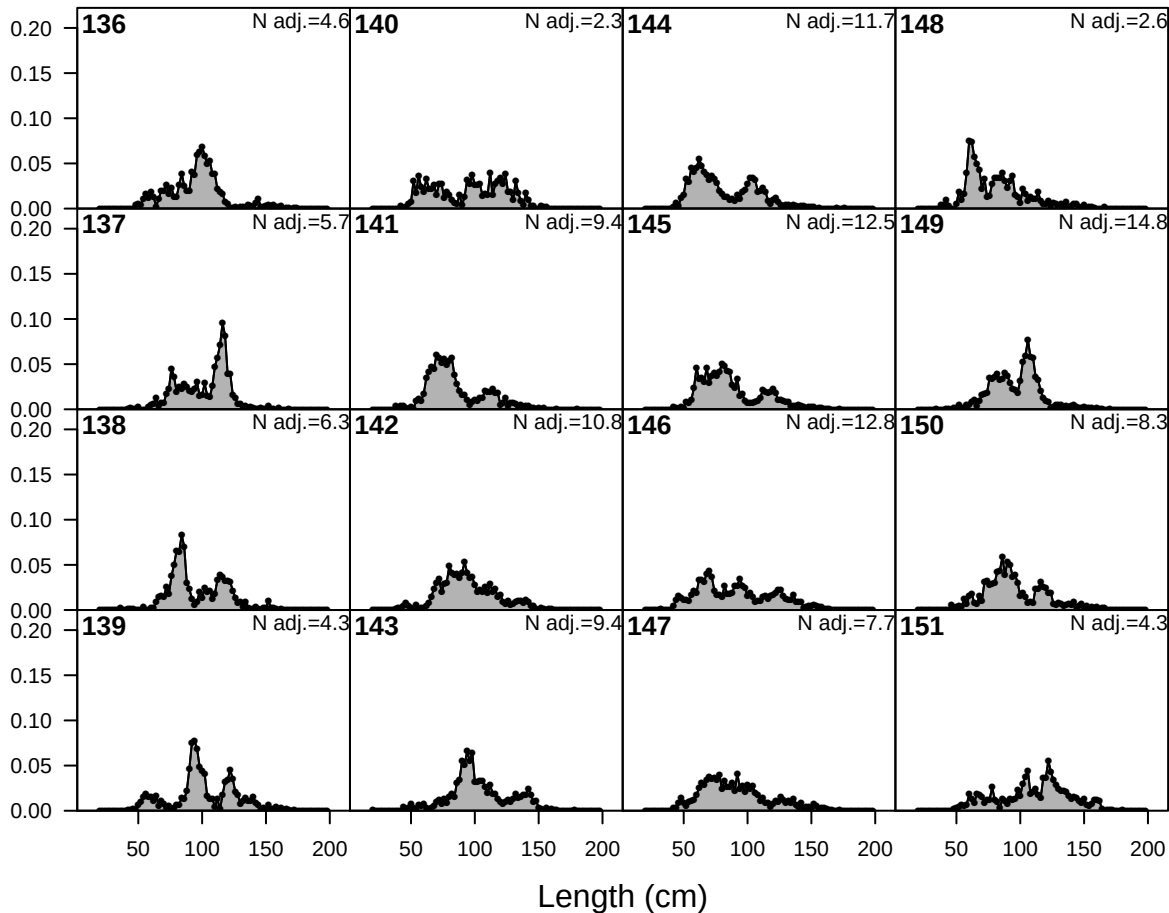


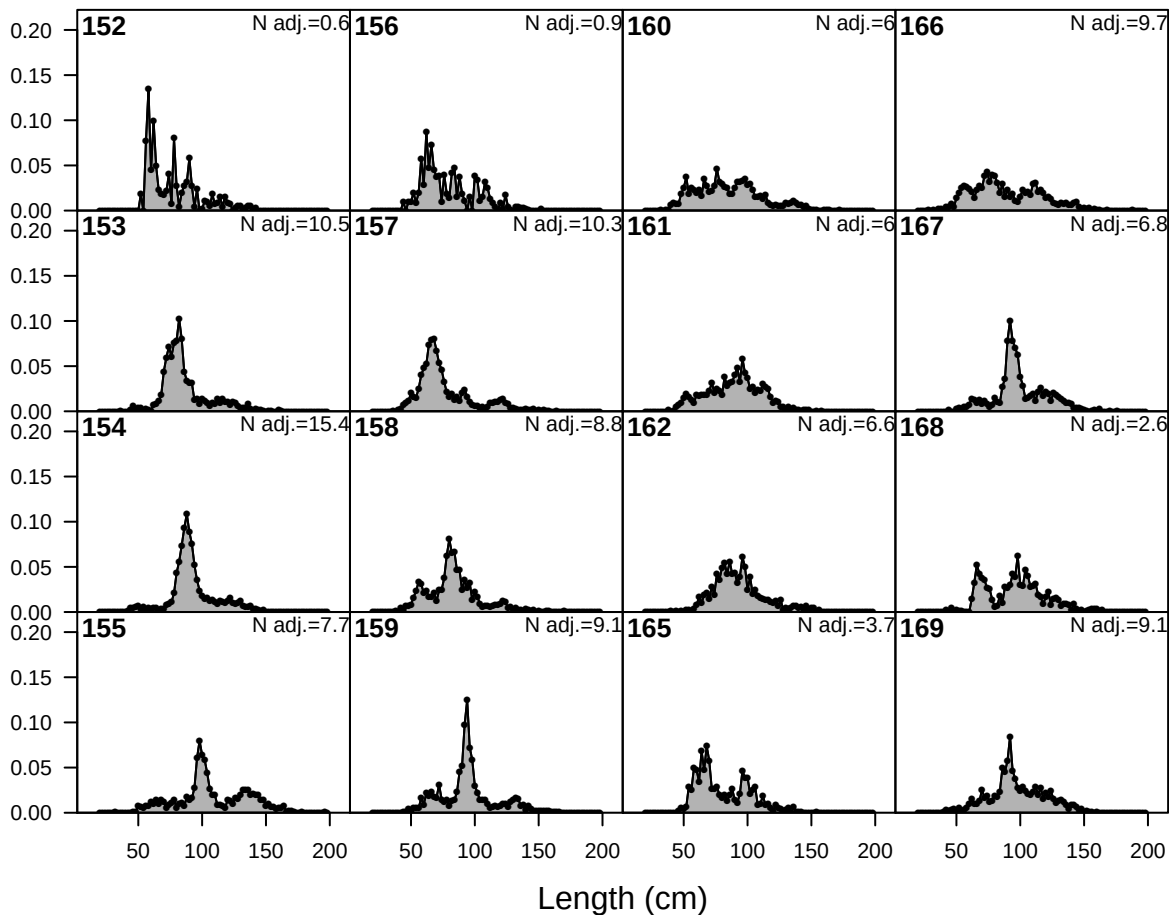




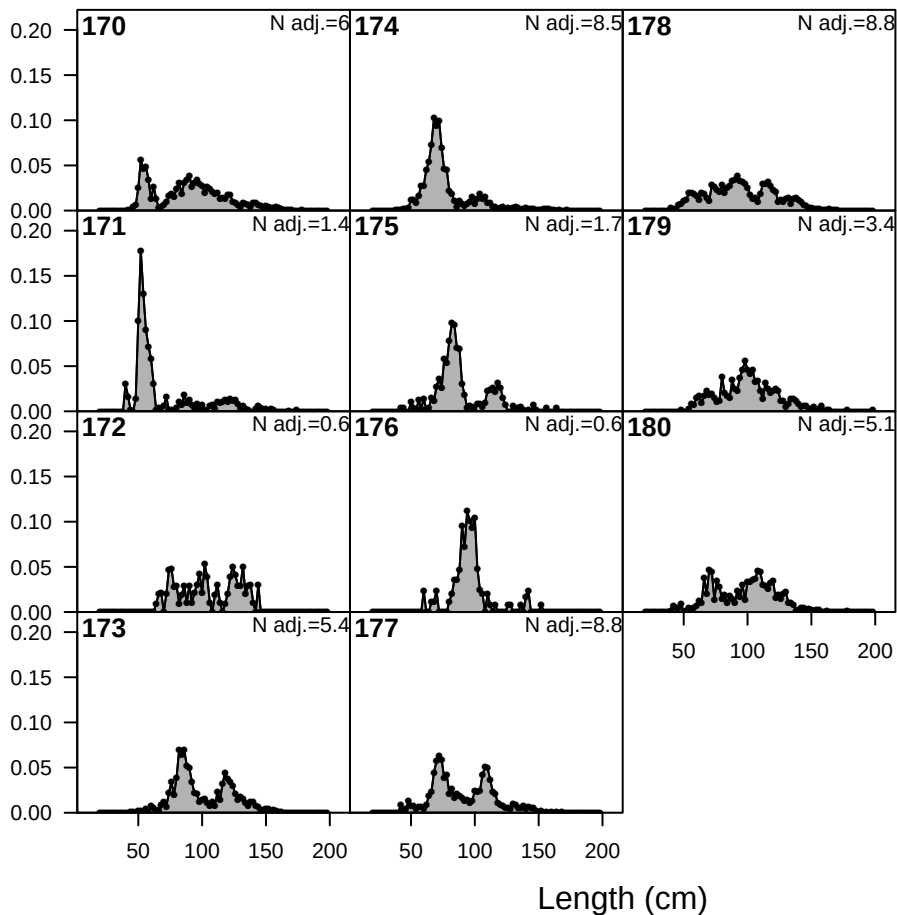


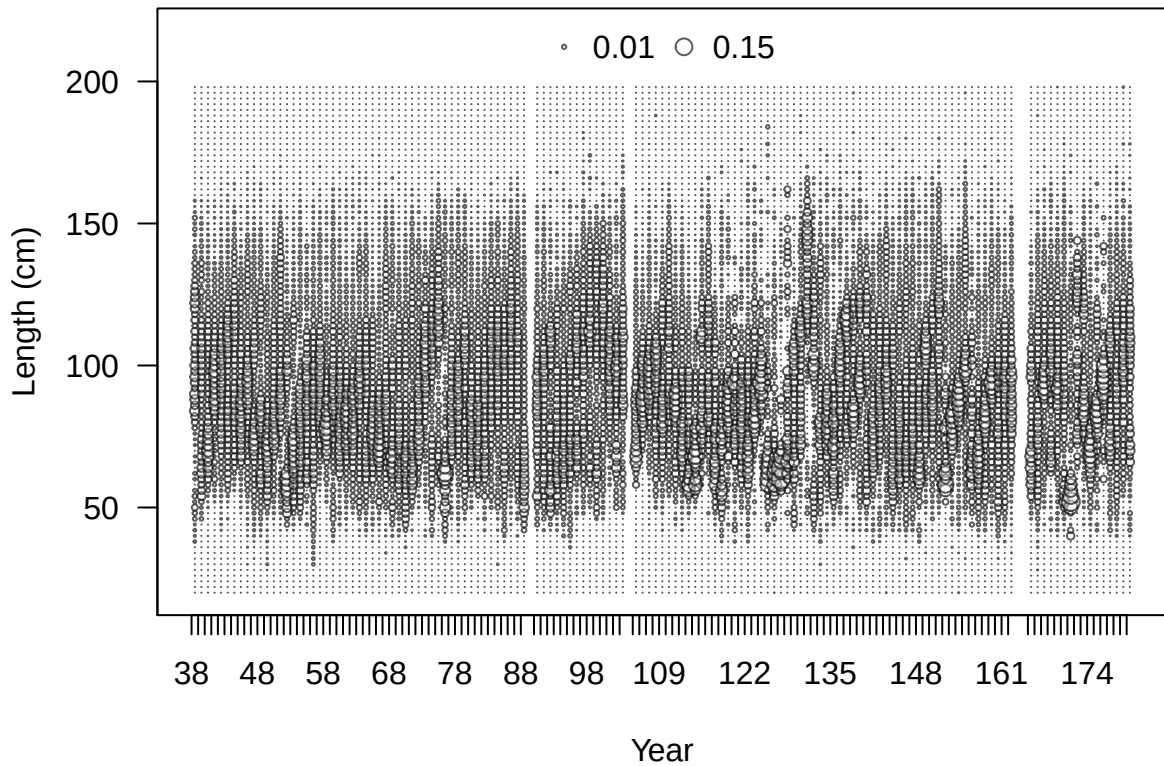
Proportion



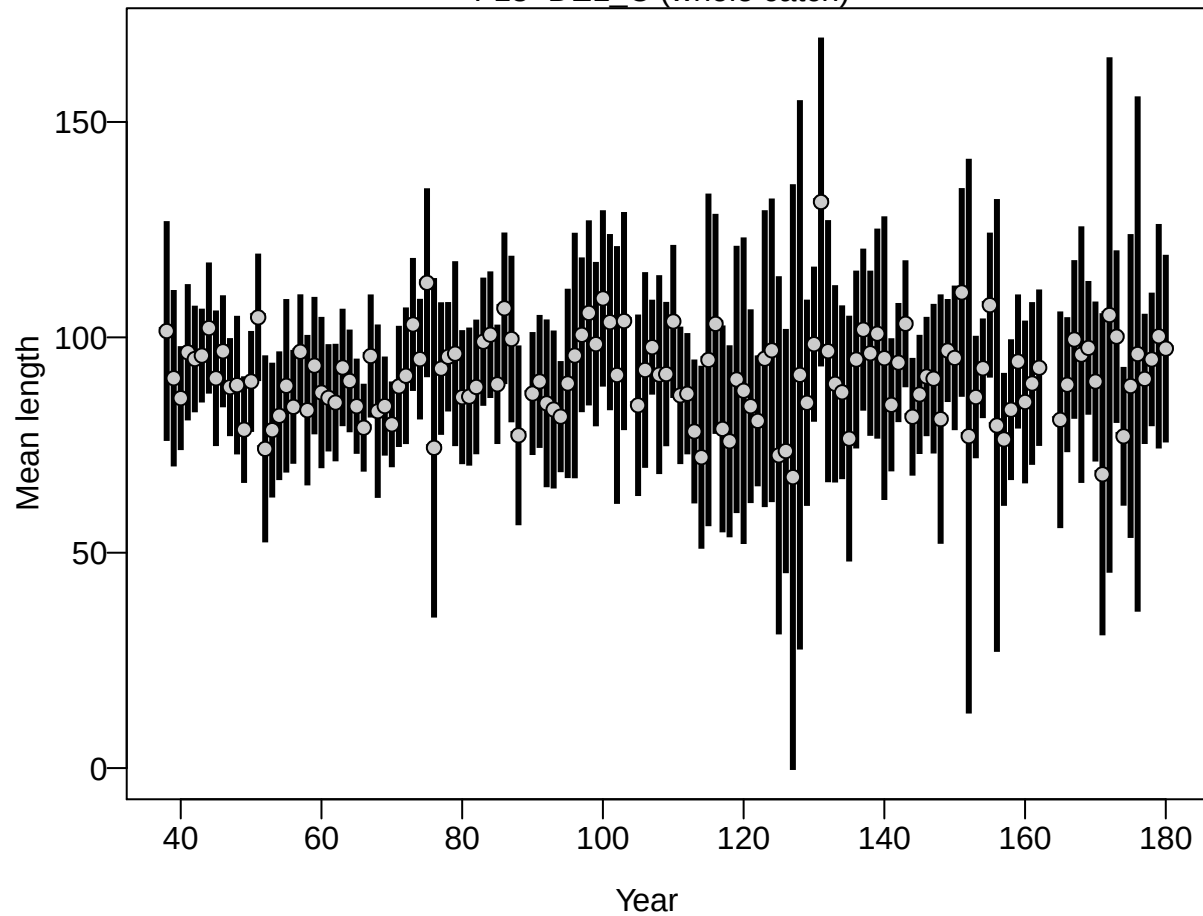


Proportion

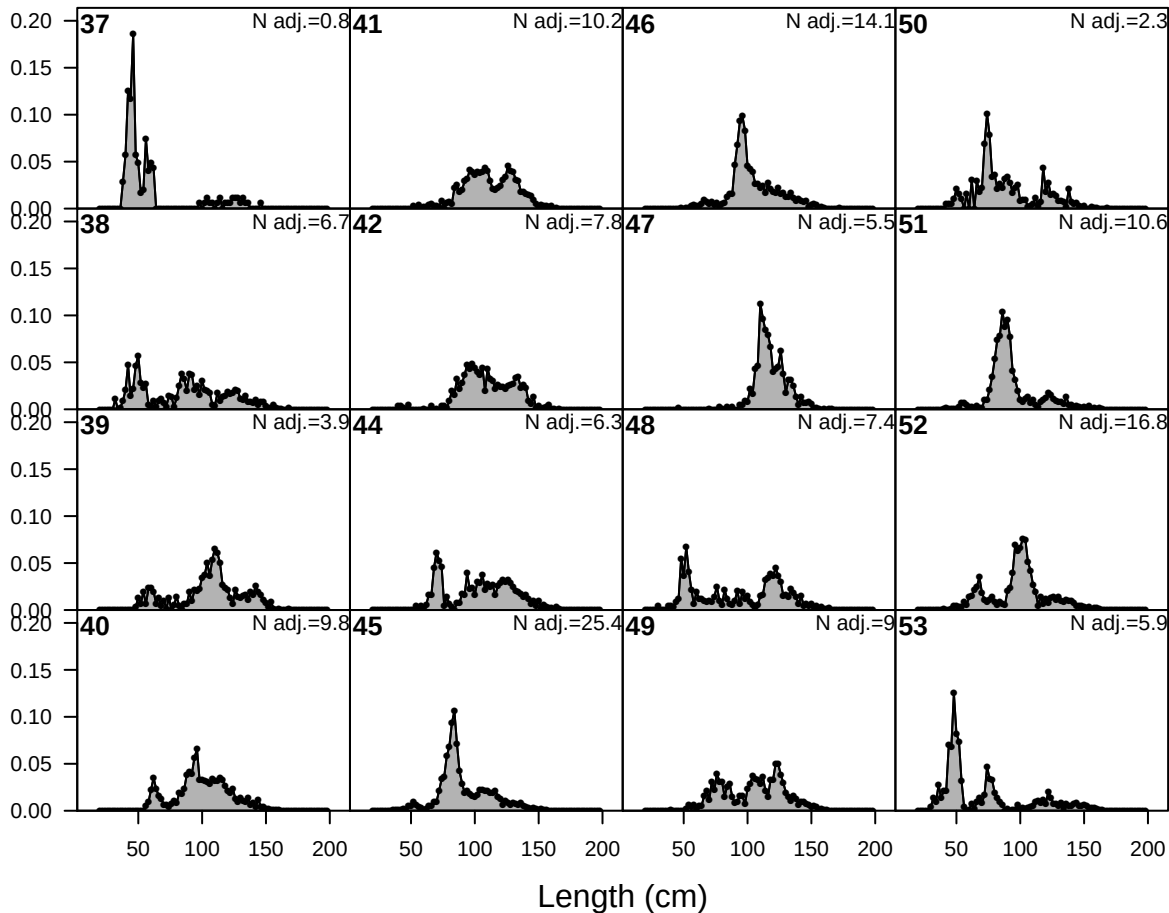




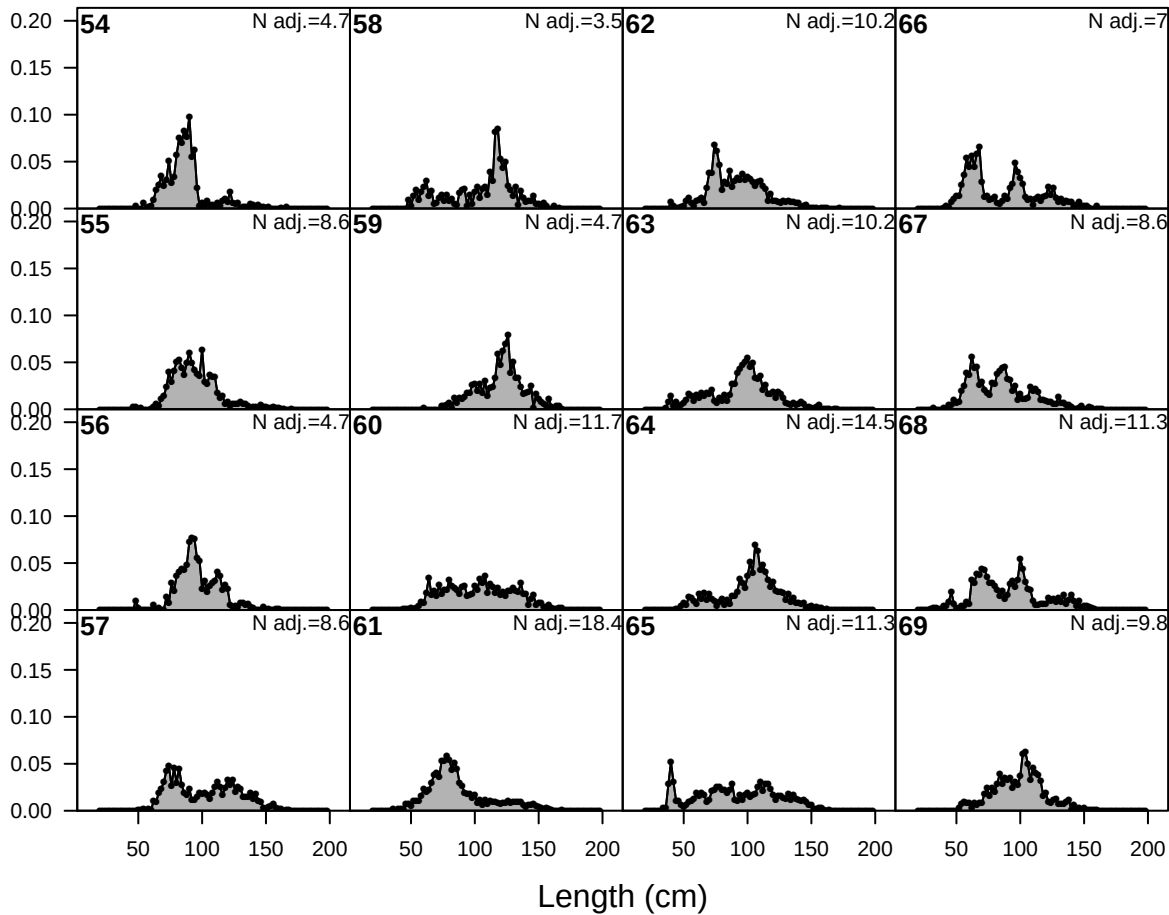
F18-DEL\_C (whole catch)



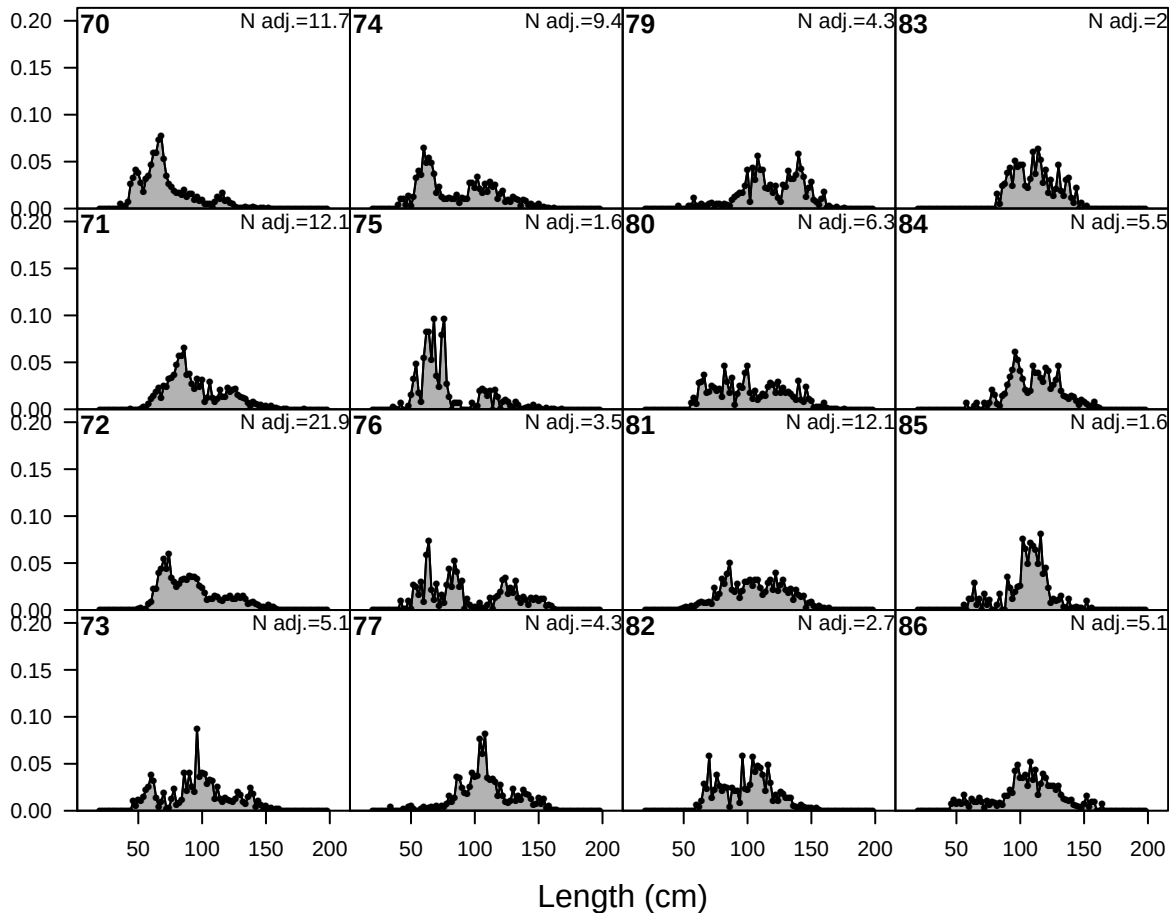
Proportion



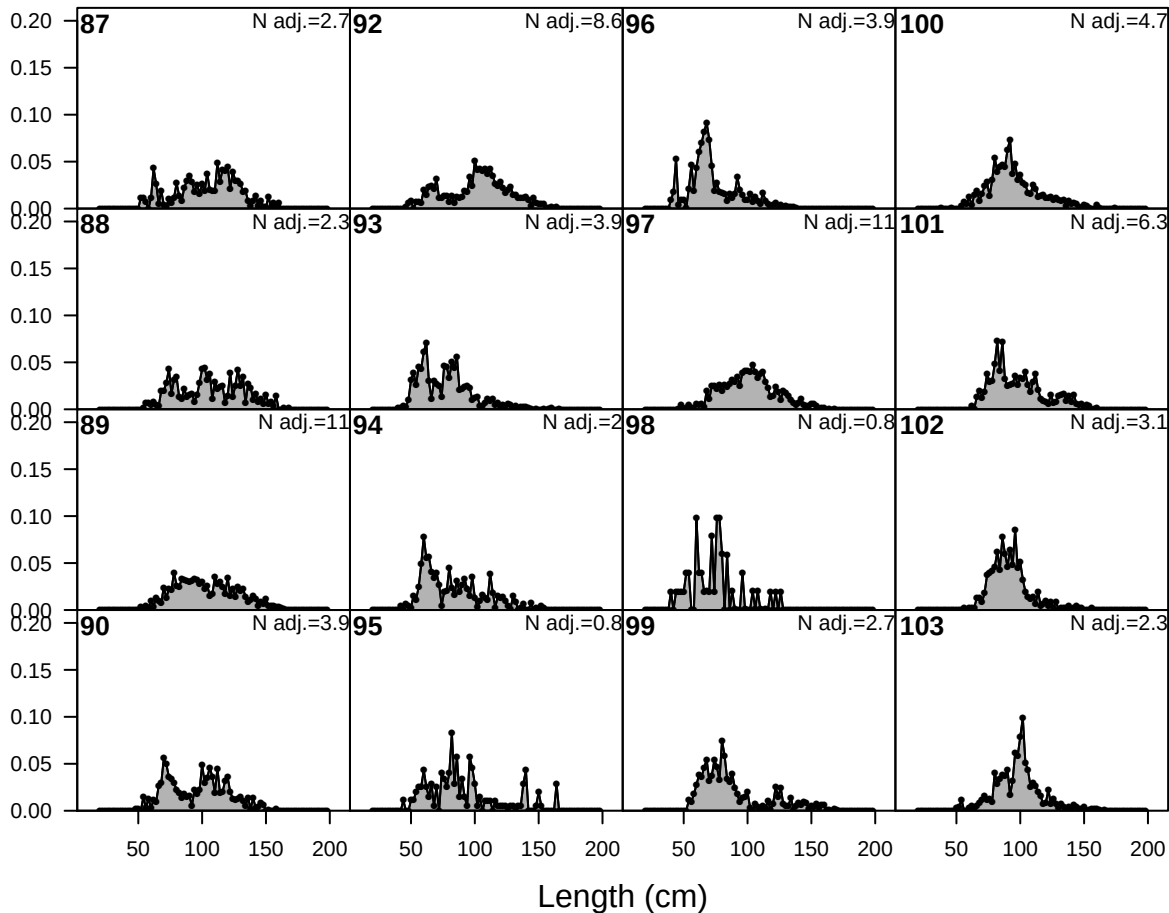
Proportion



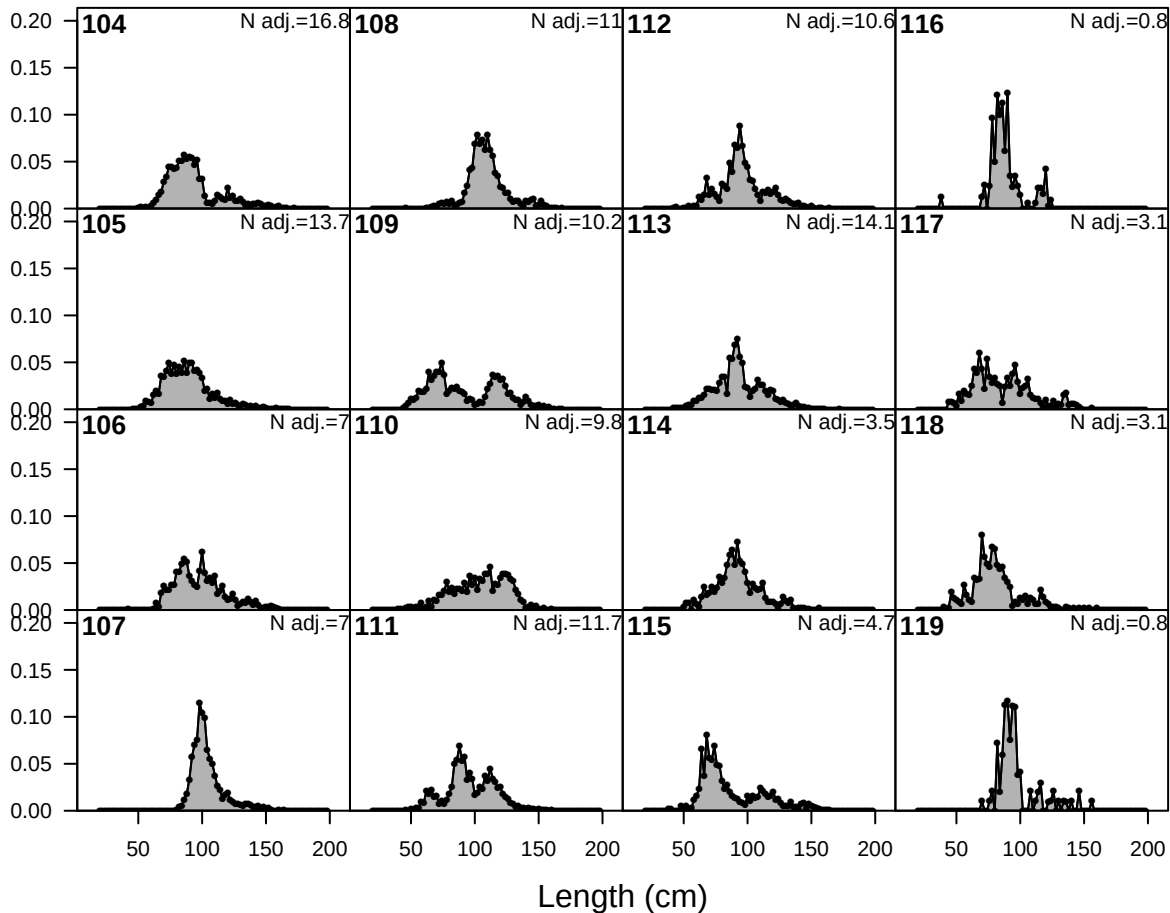
Proportion

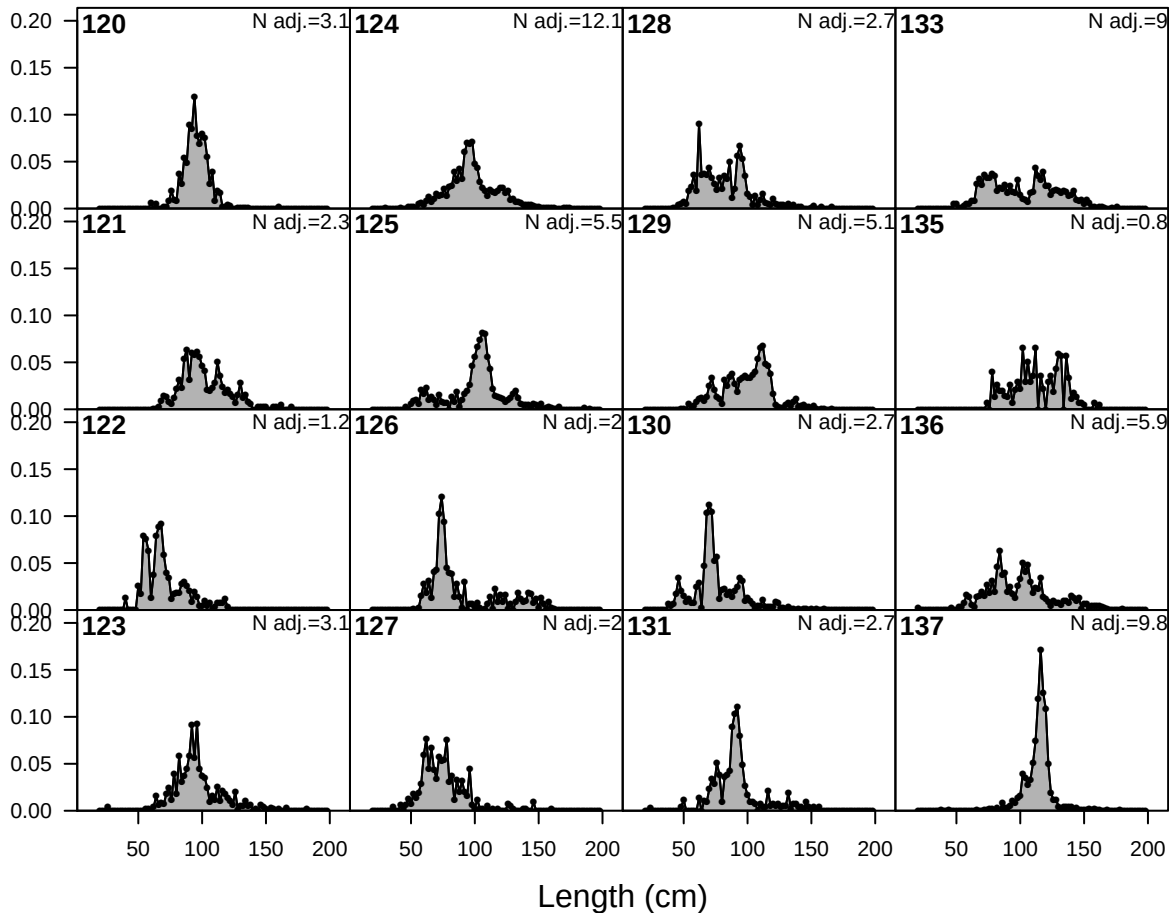


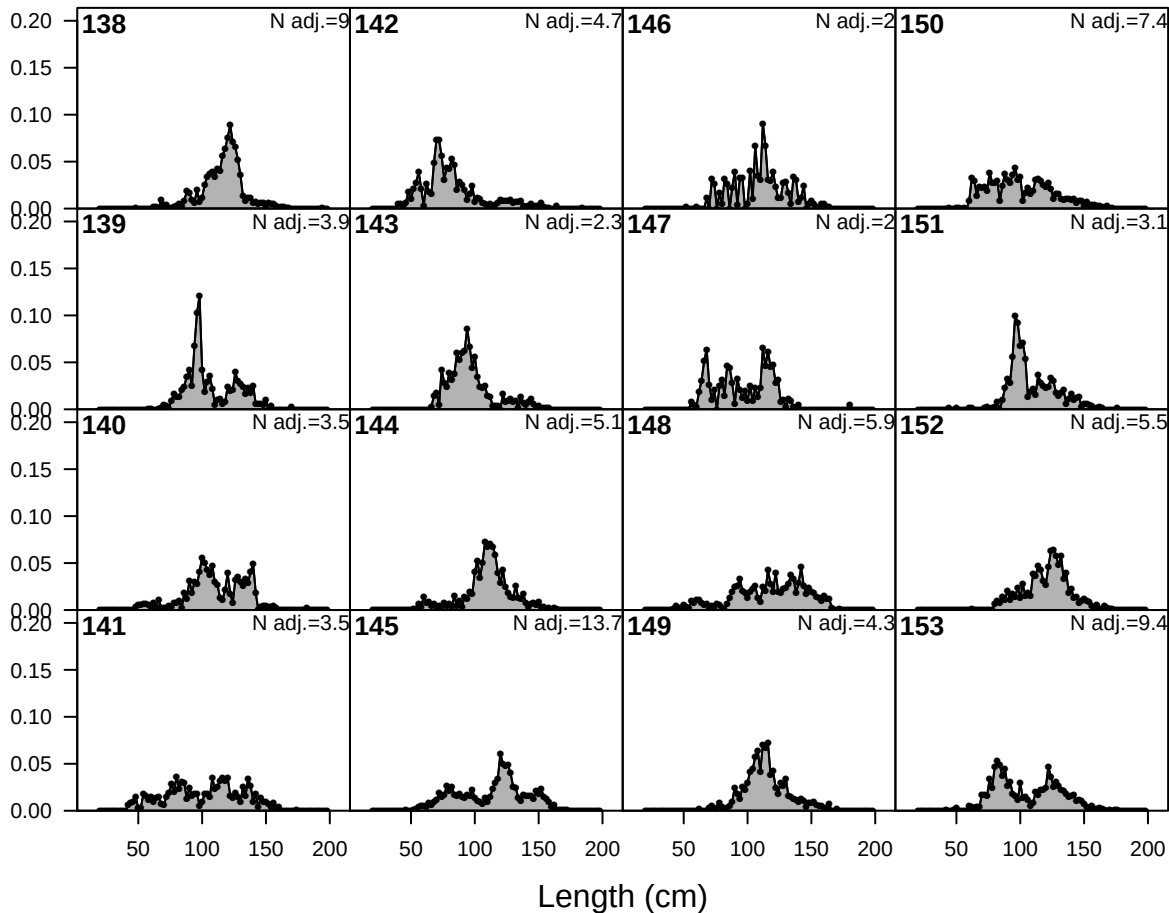




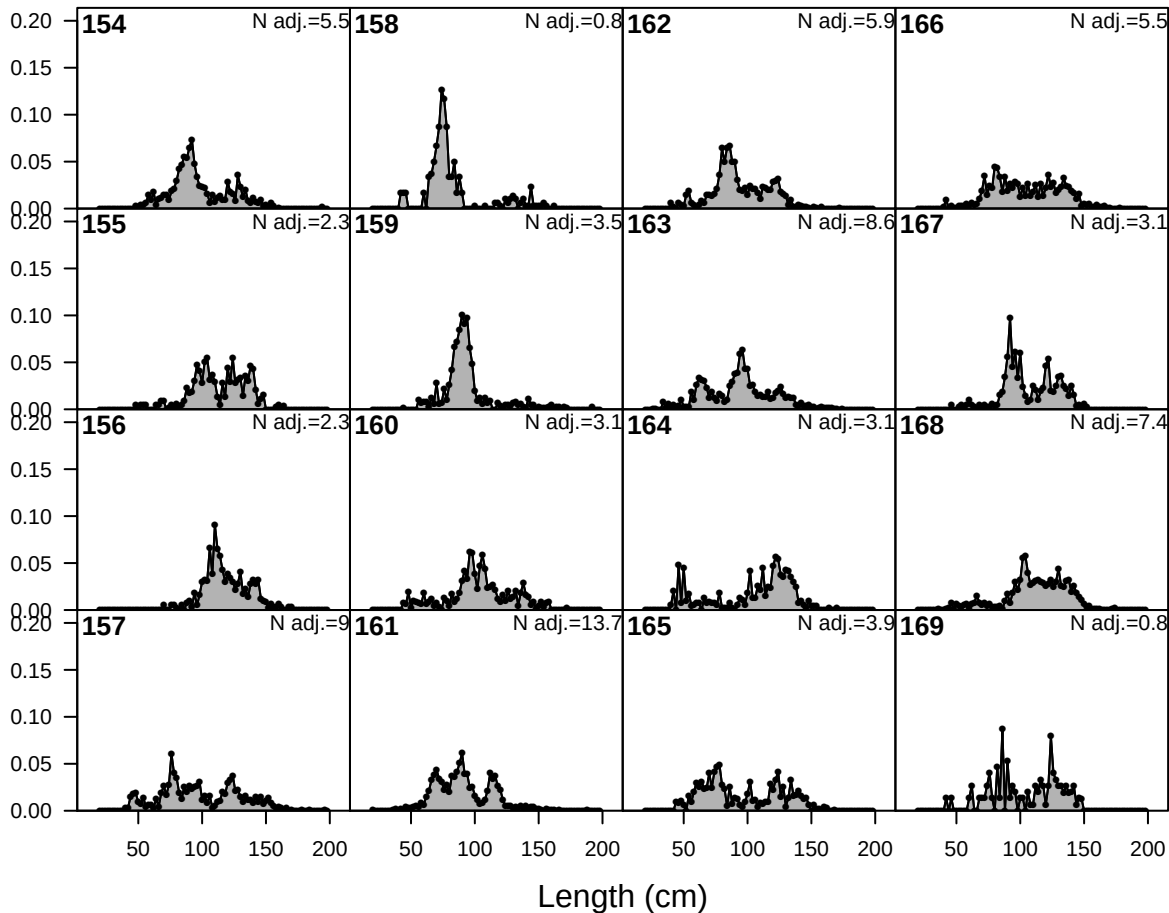
Proportion



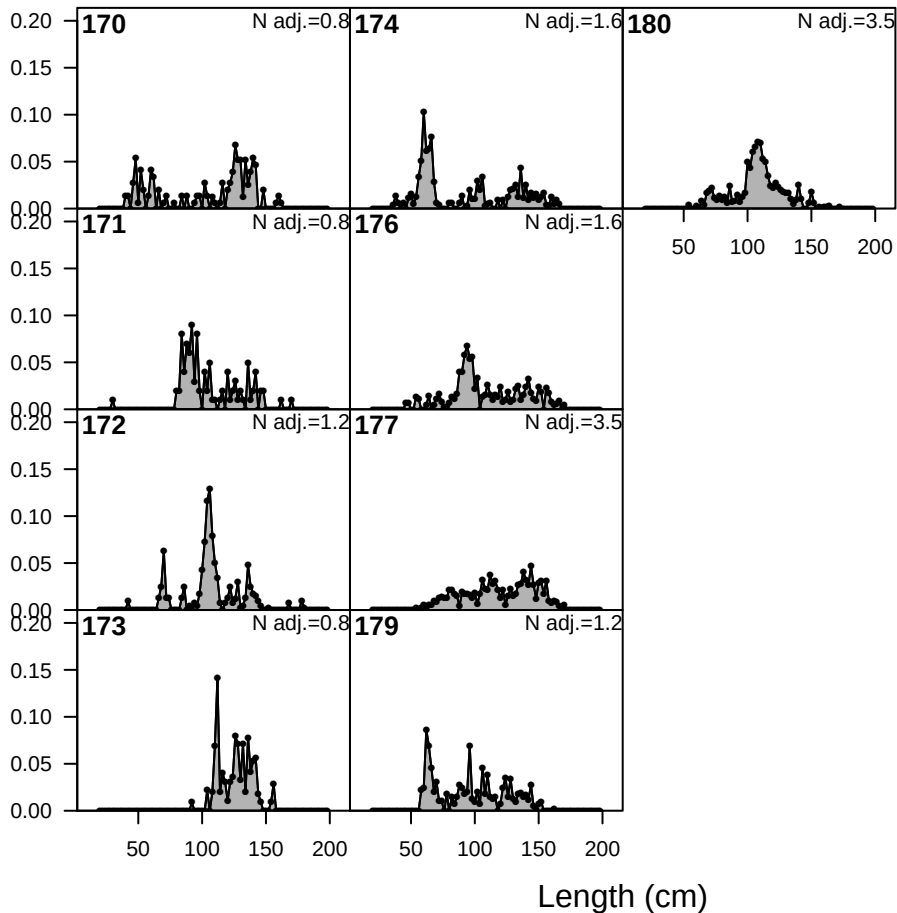


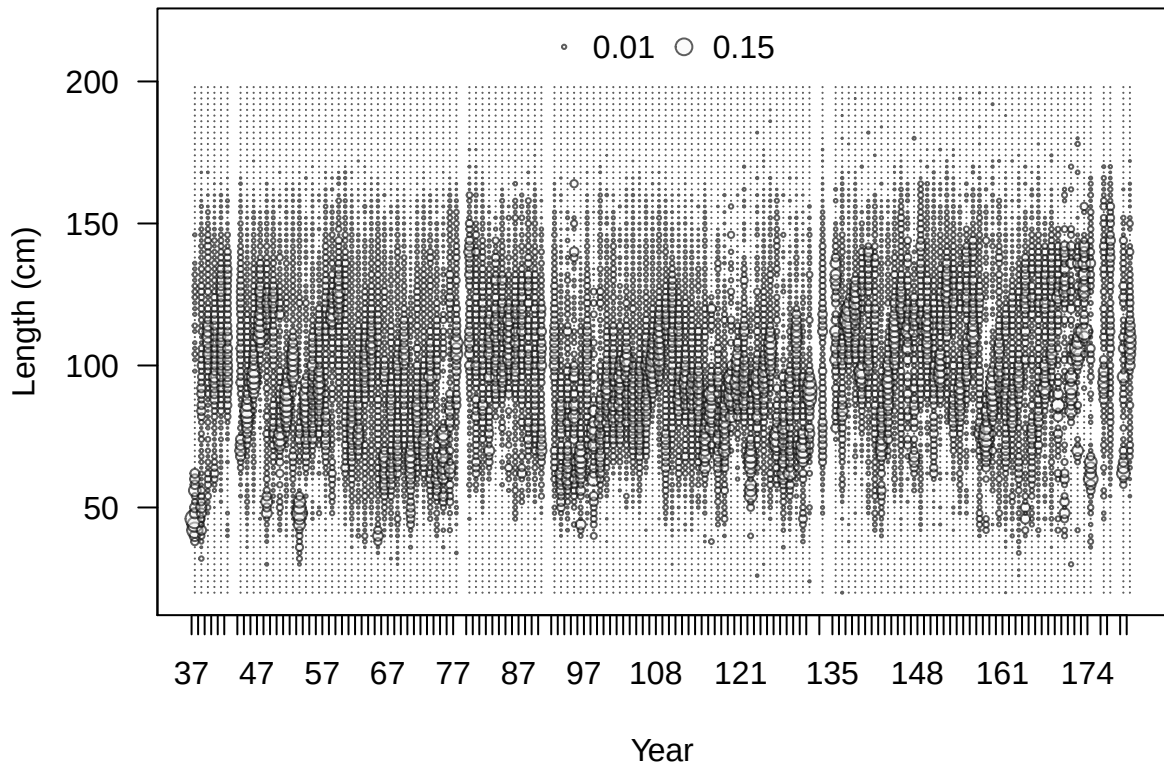


Proportion

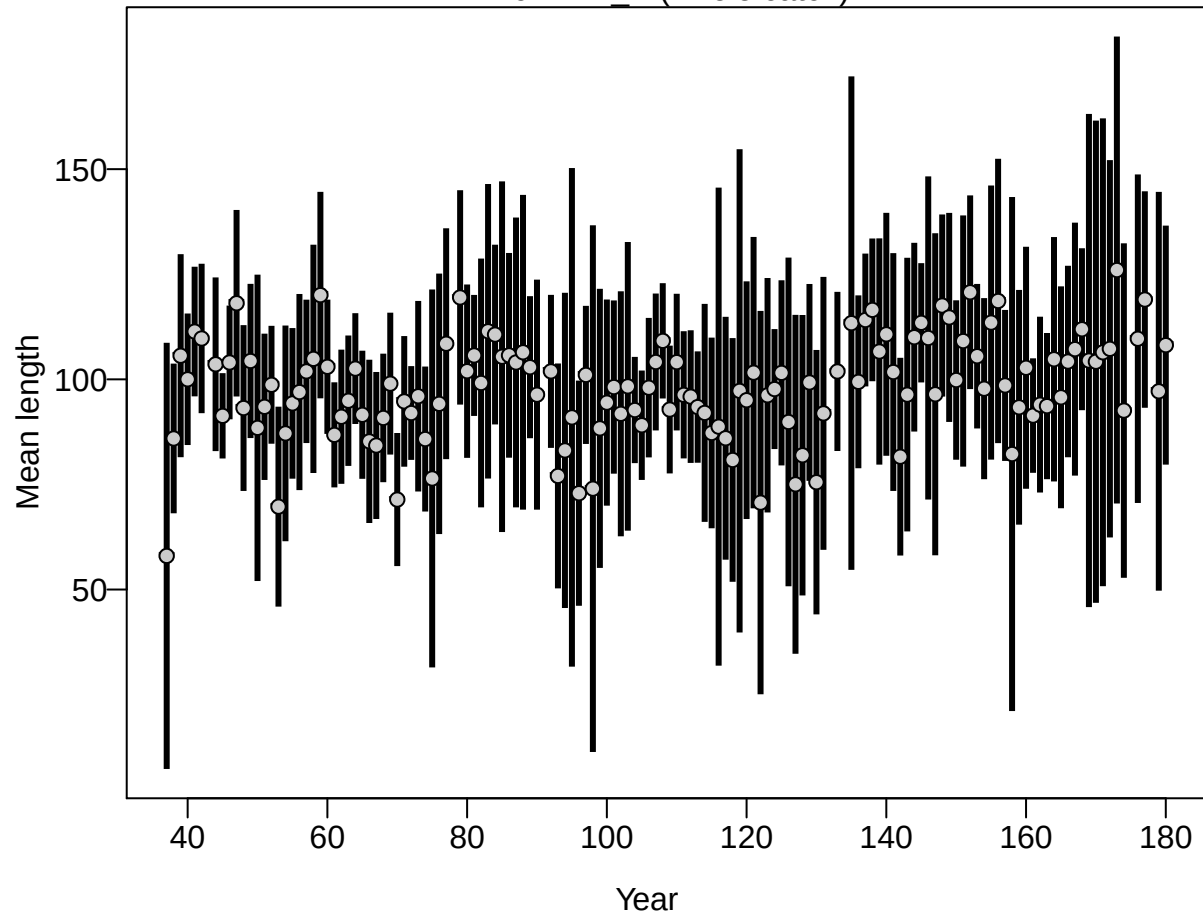


Proportion



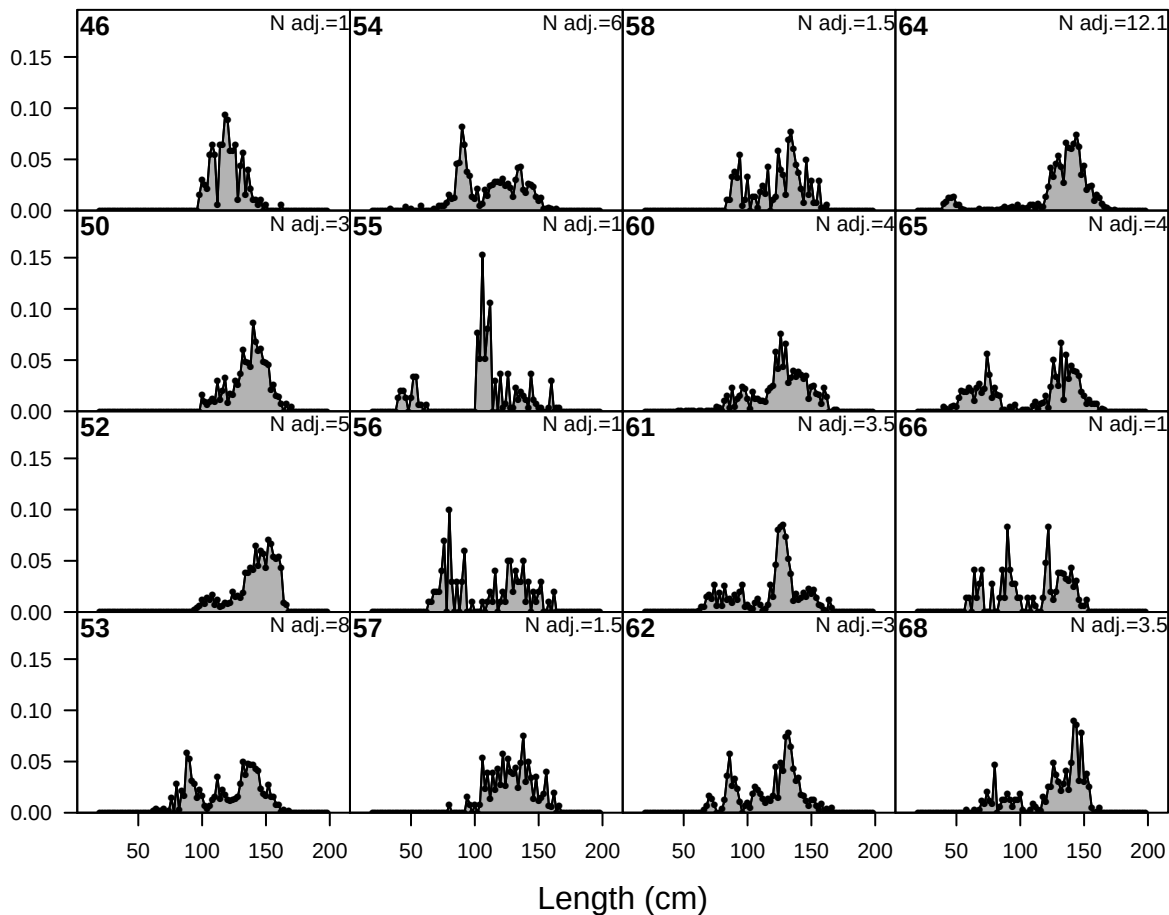


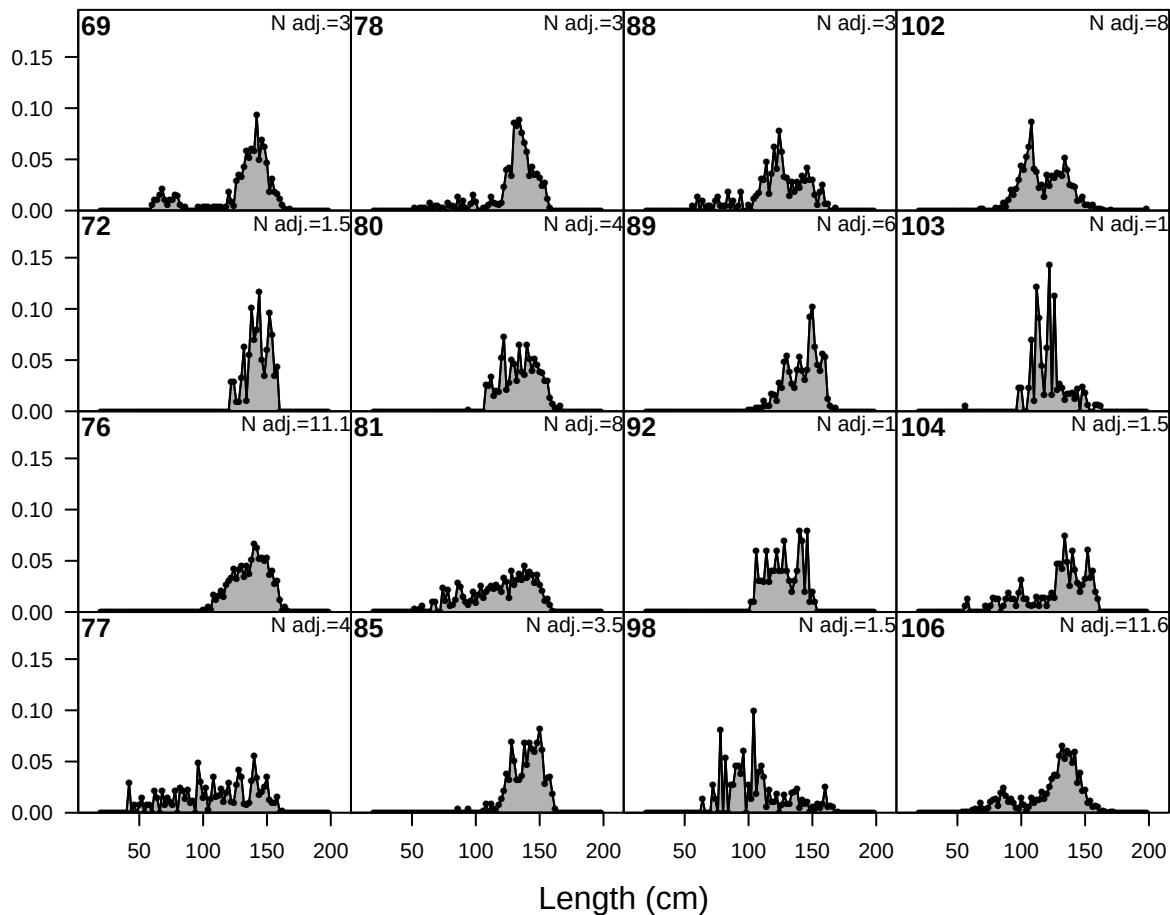
F19-DEL P (whole catch)



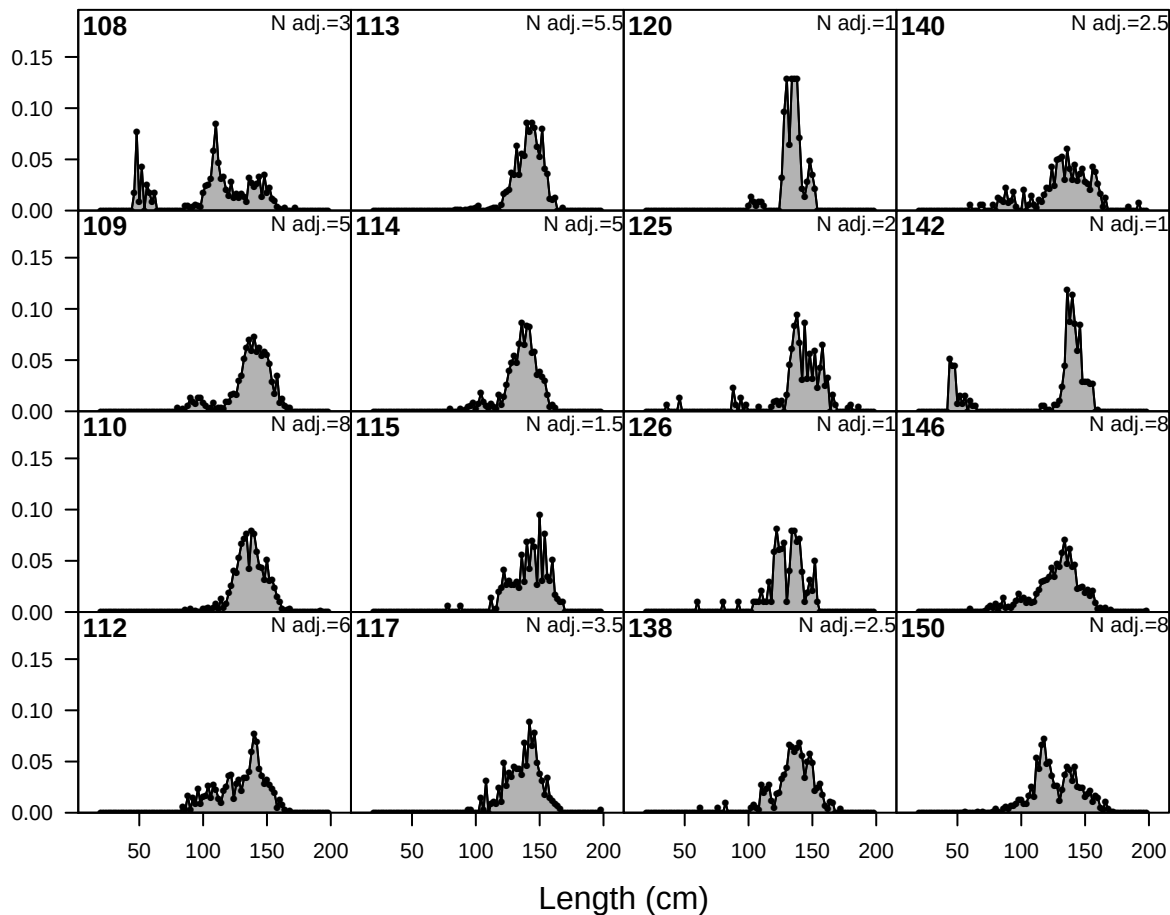


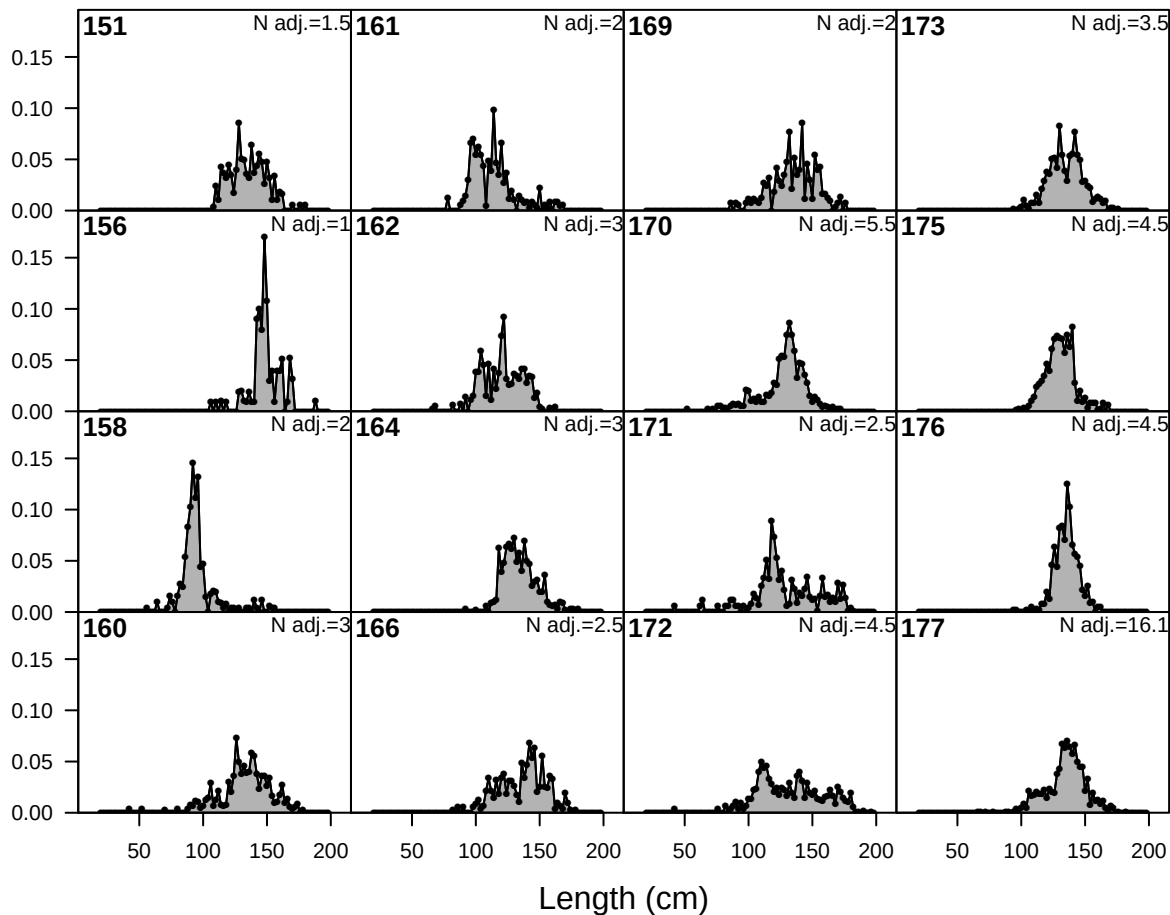
Proportion

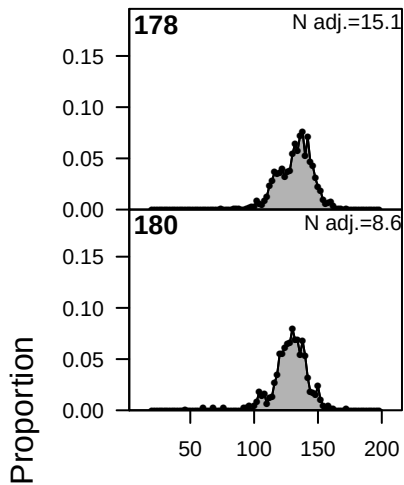




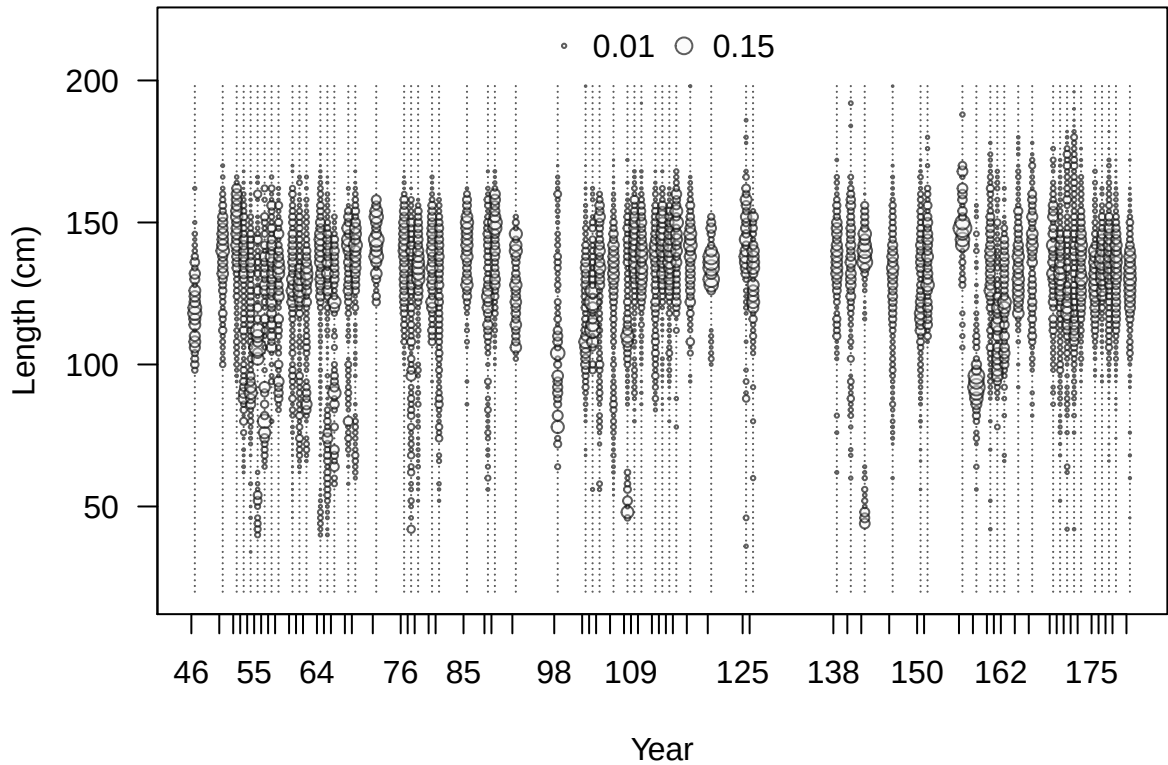
Proportion



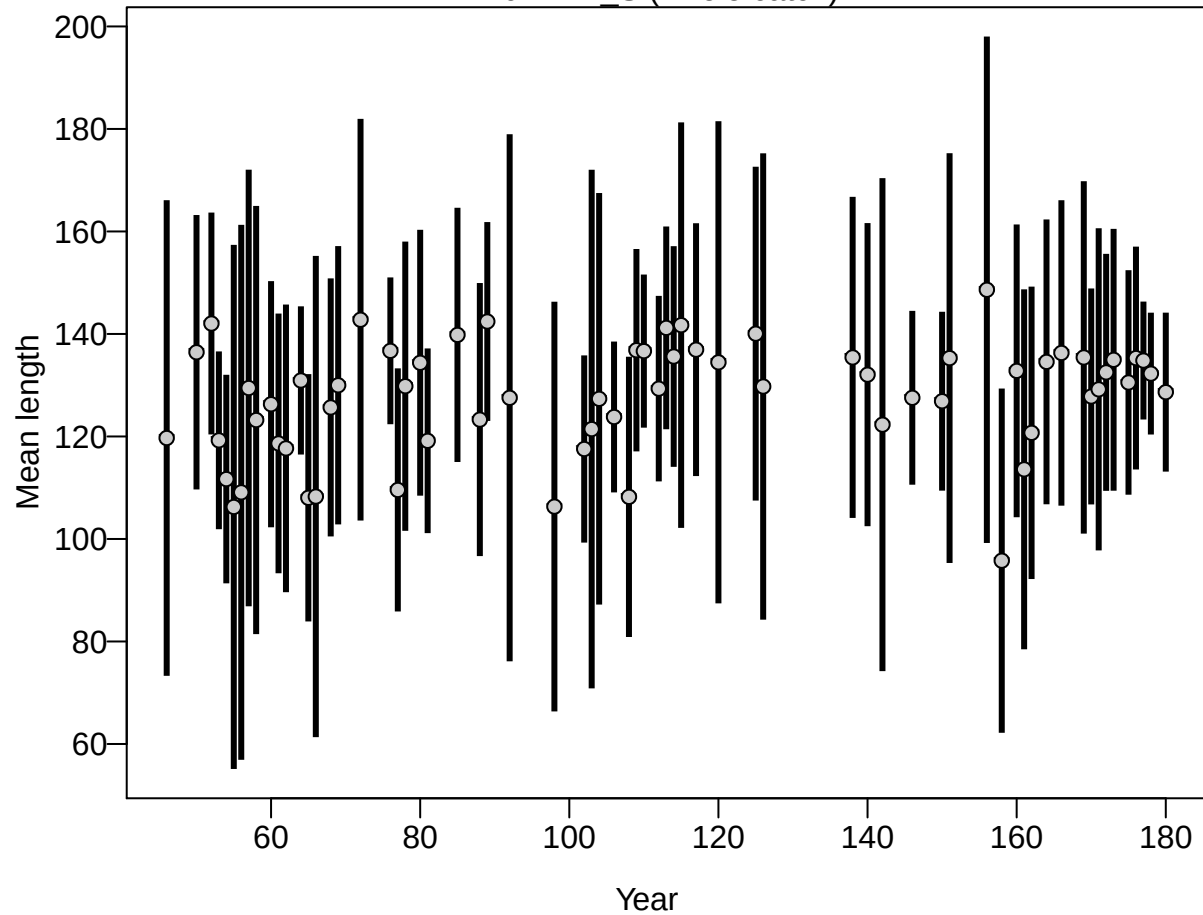


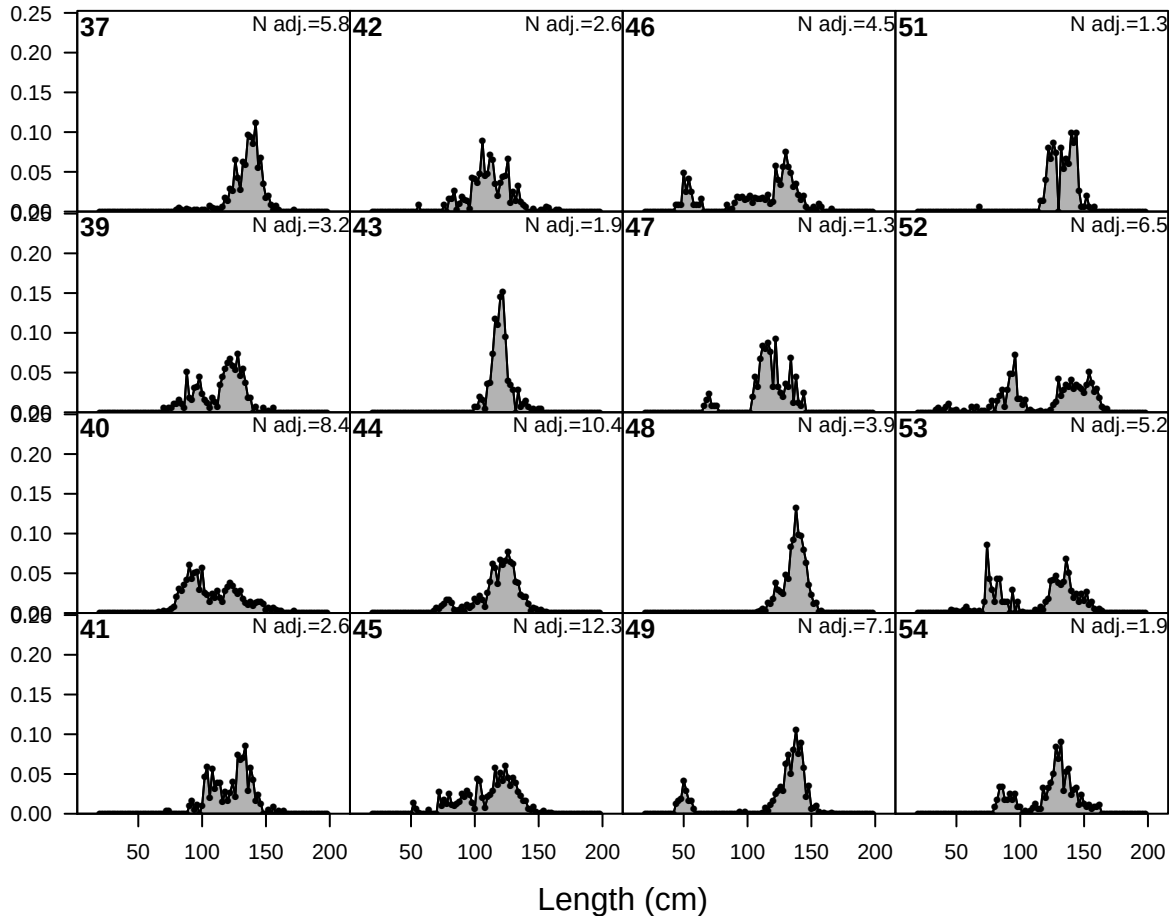


Length (cm)

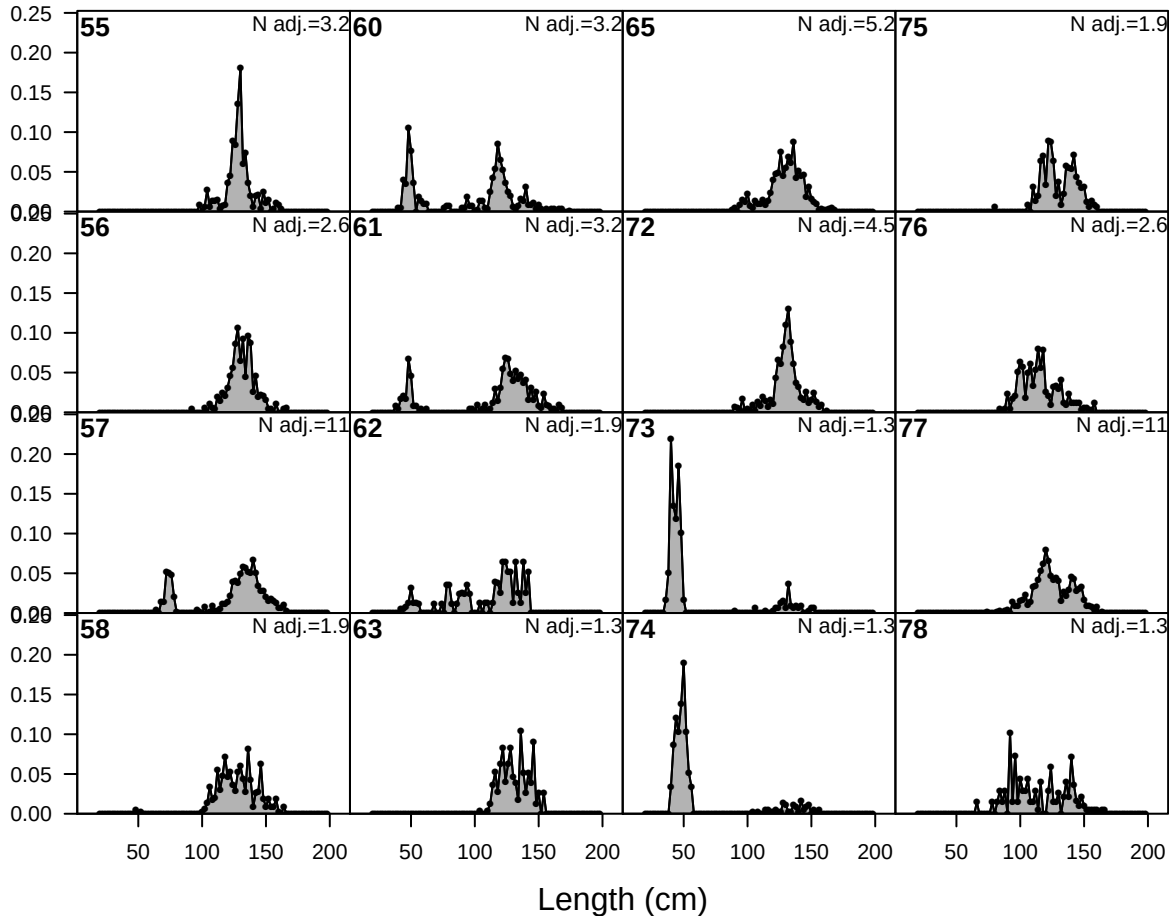


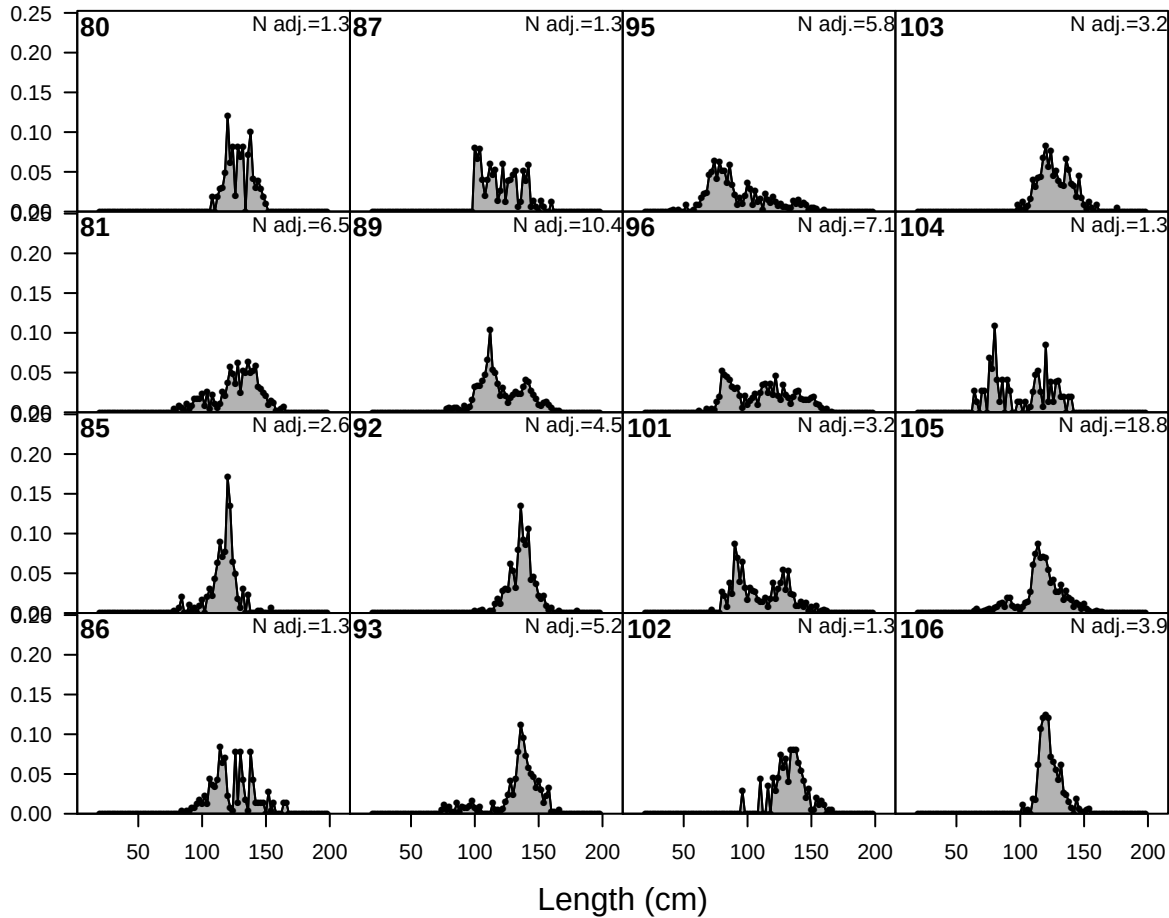
F20-DEL\_S (whole catch)



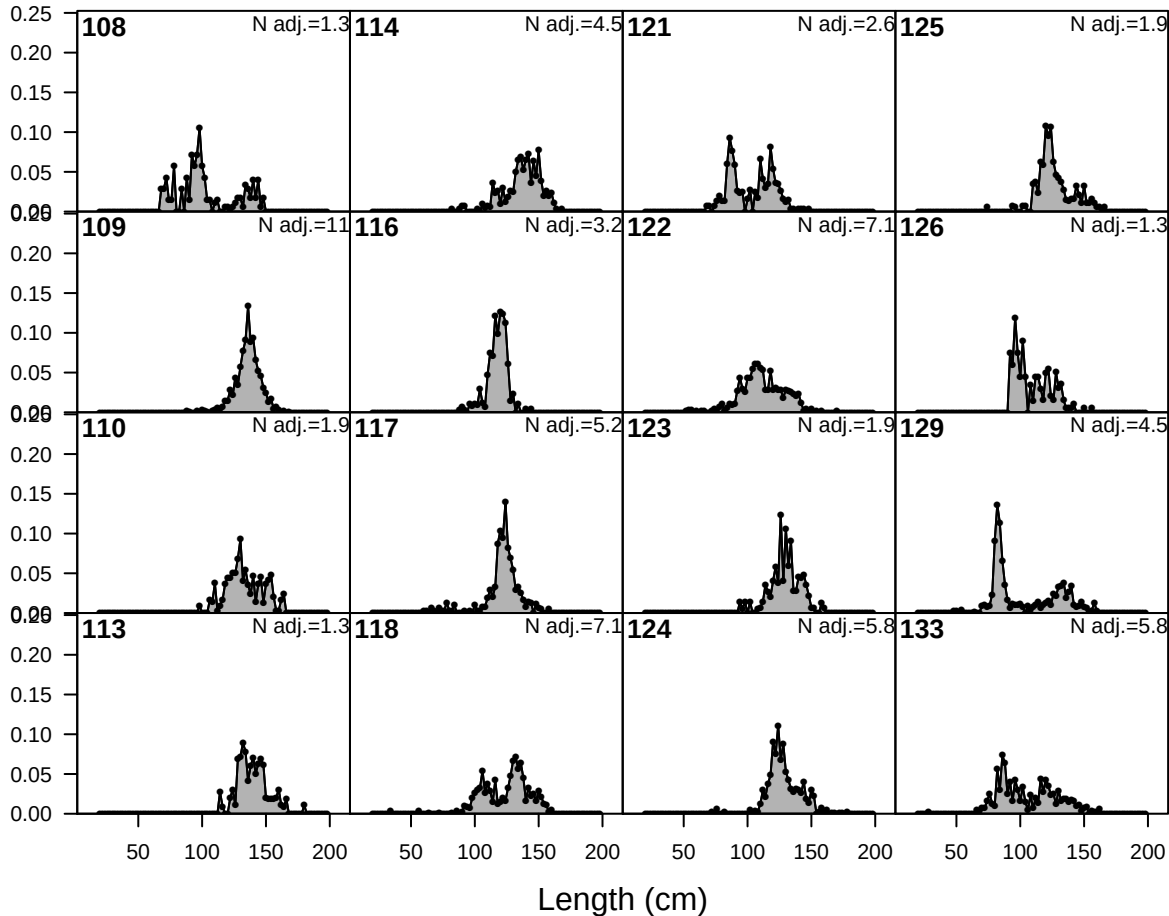




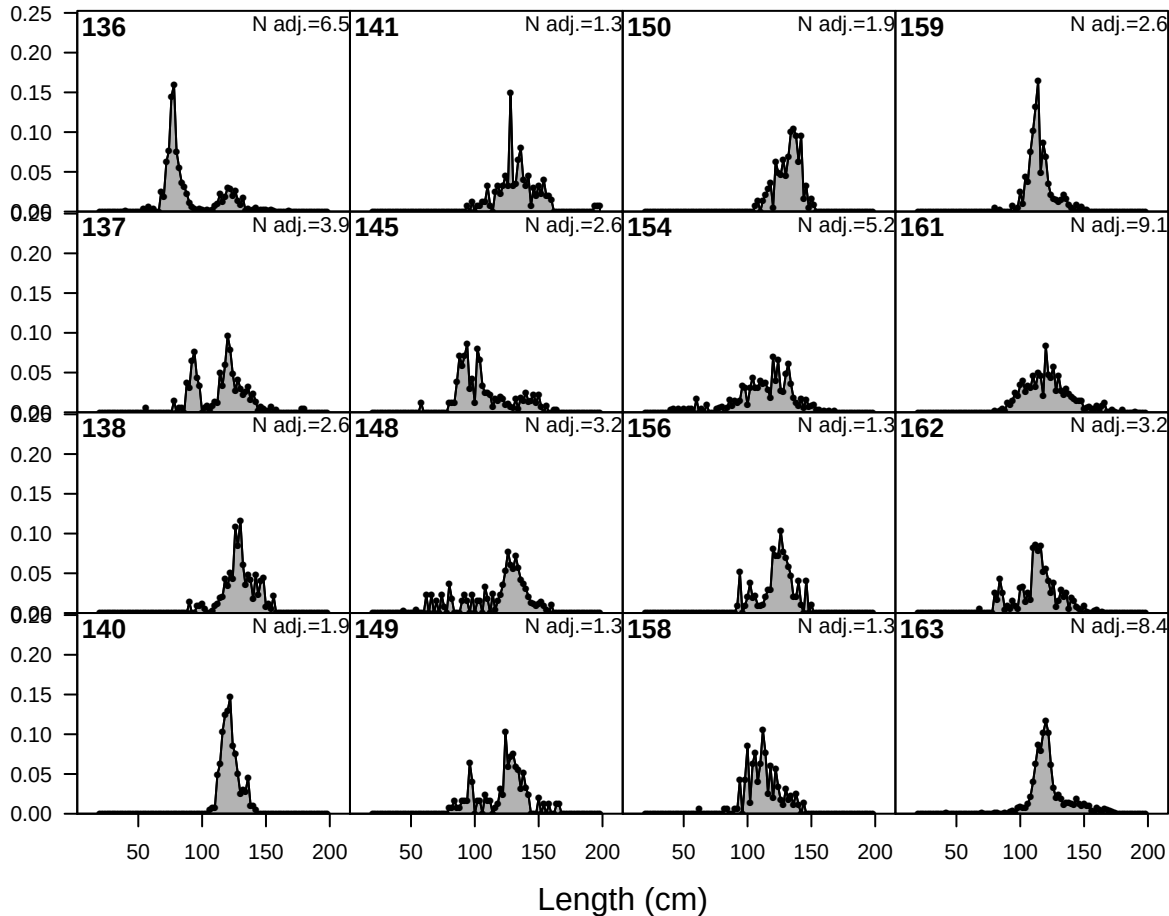


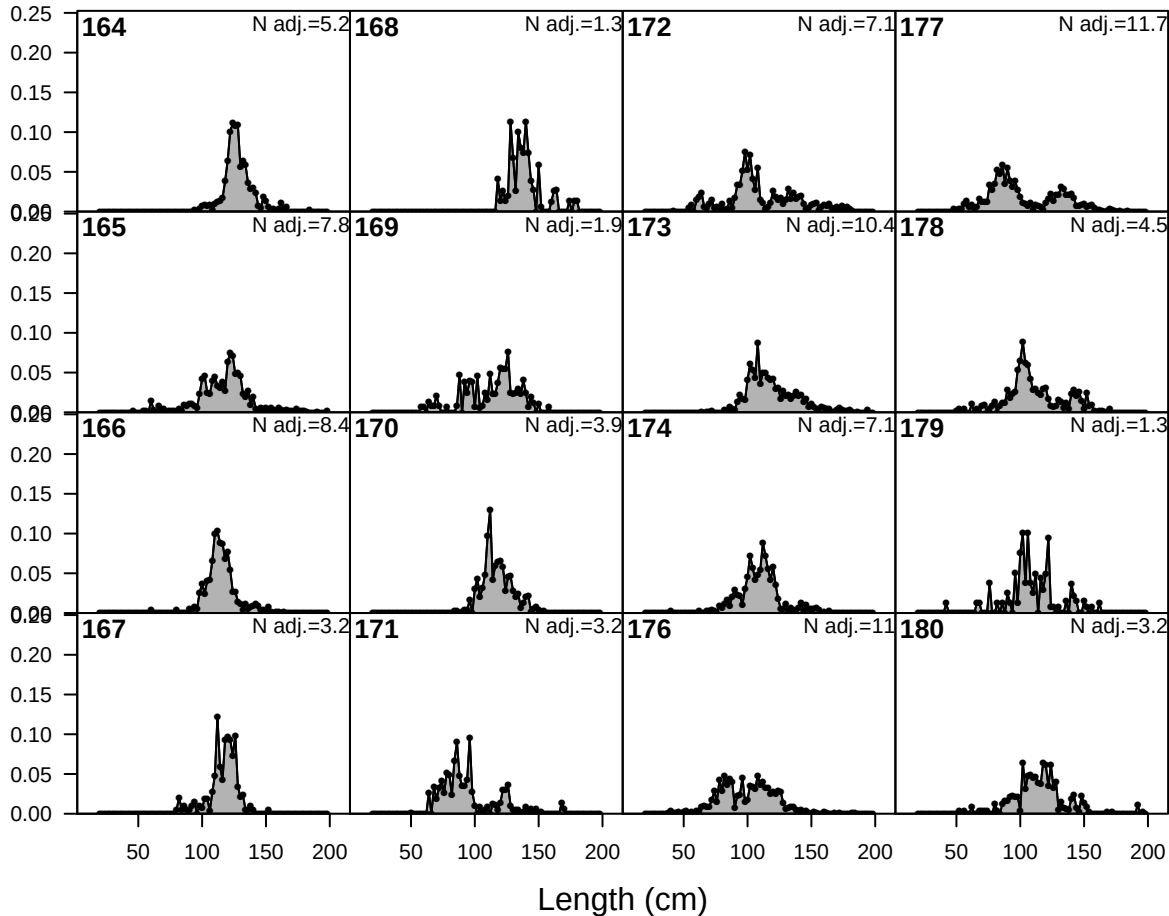


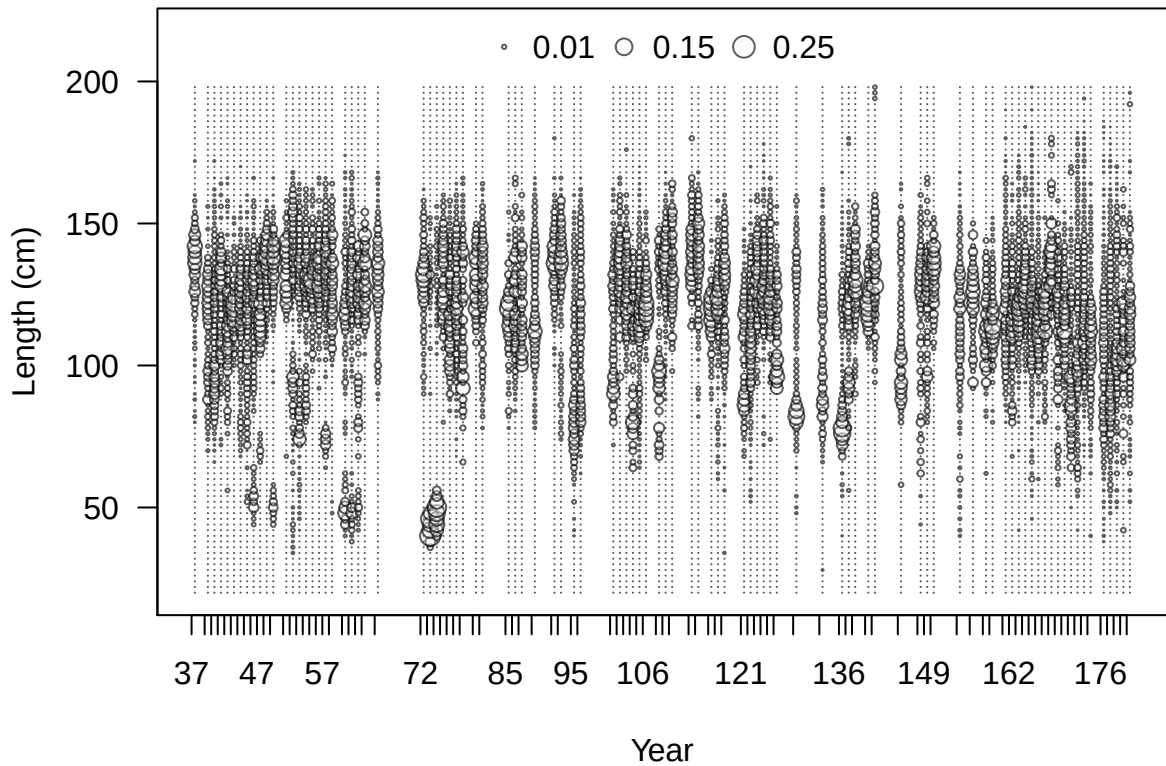
Proportion



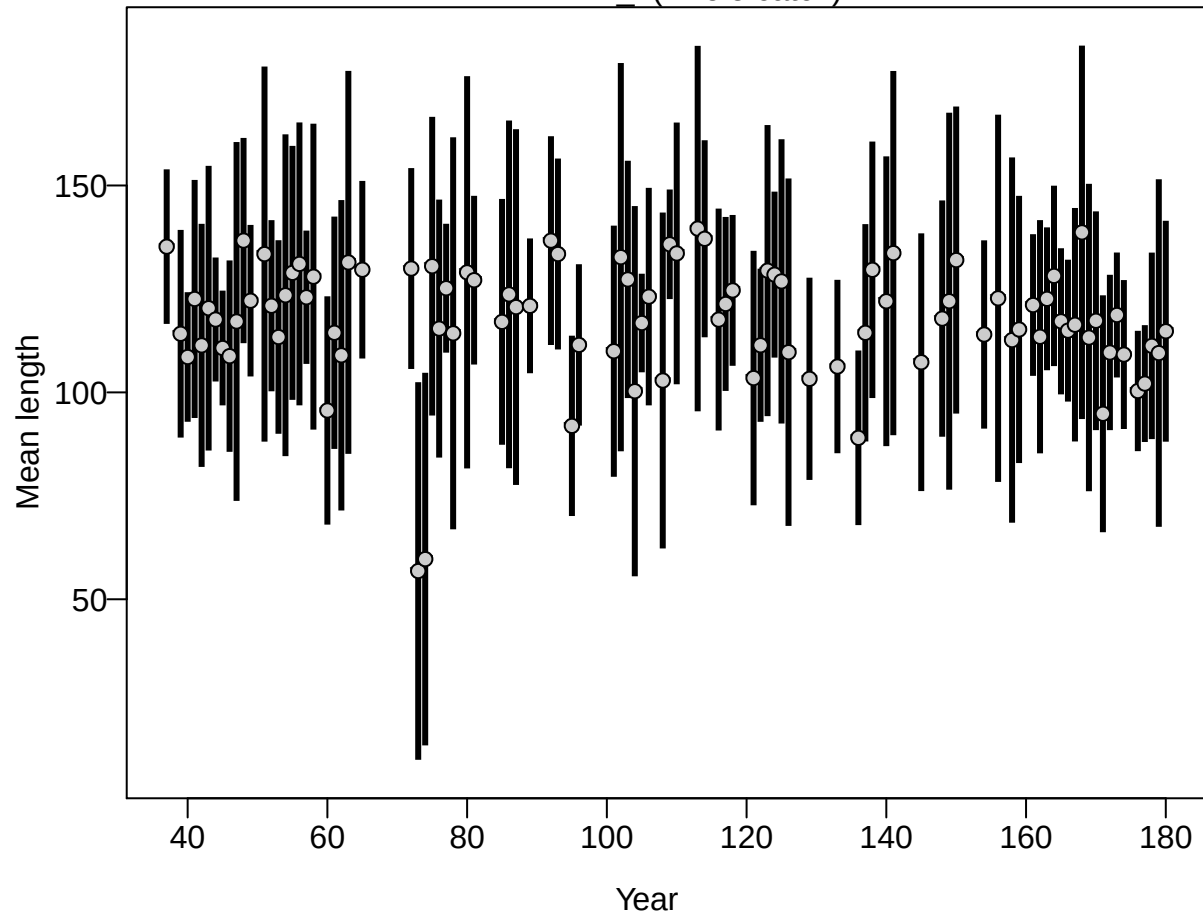
Proportion

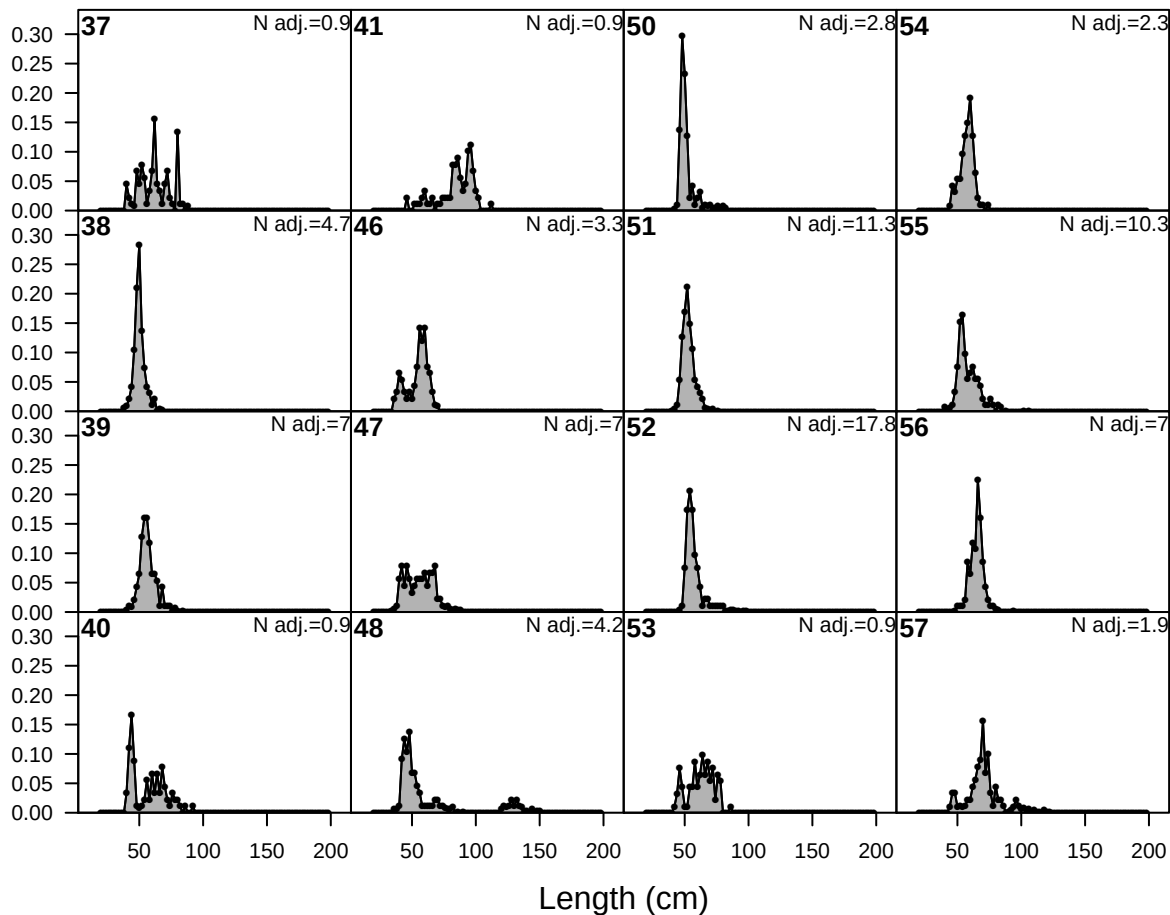




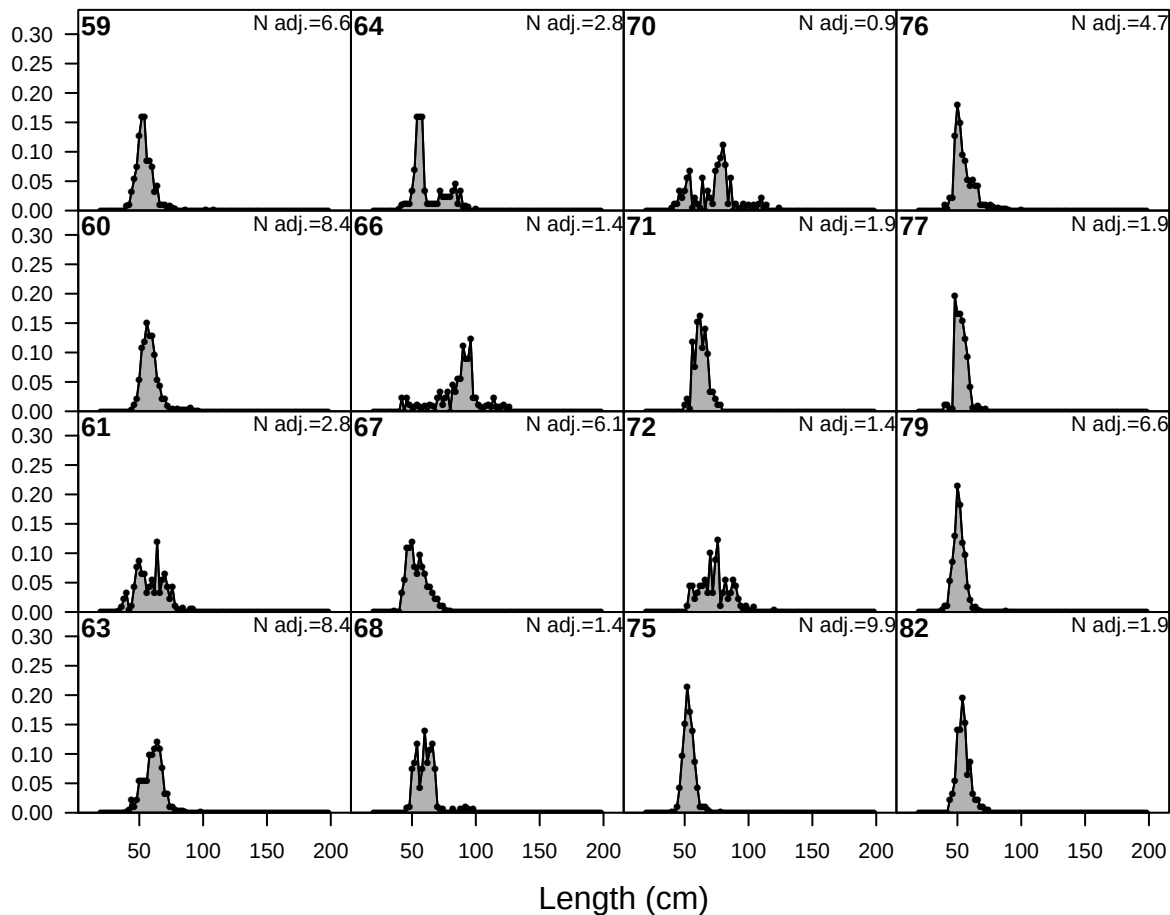


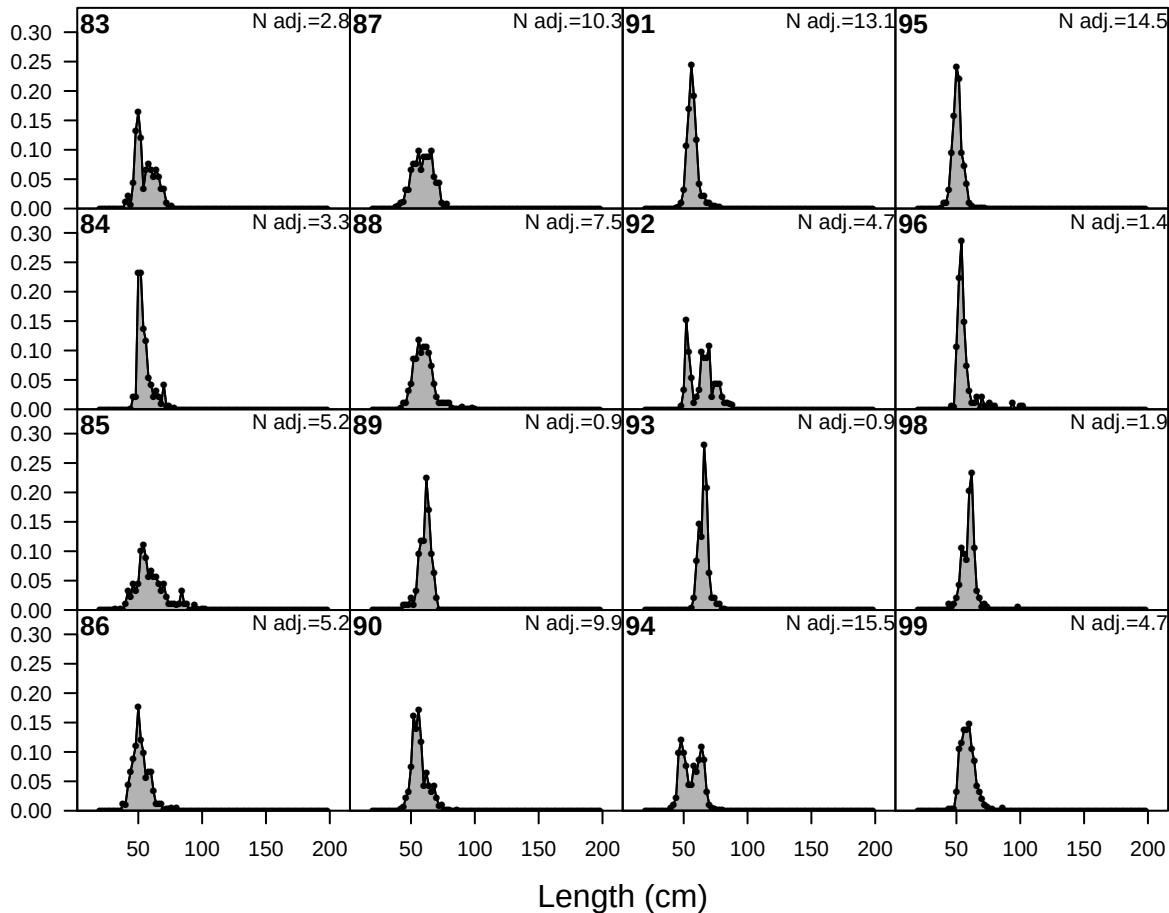
F21-DEL\_I (whole catch)

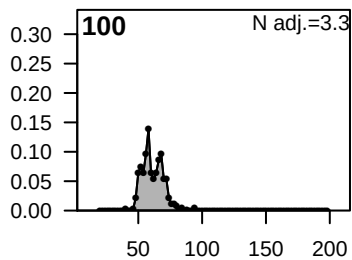






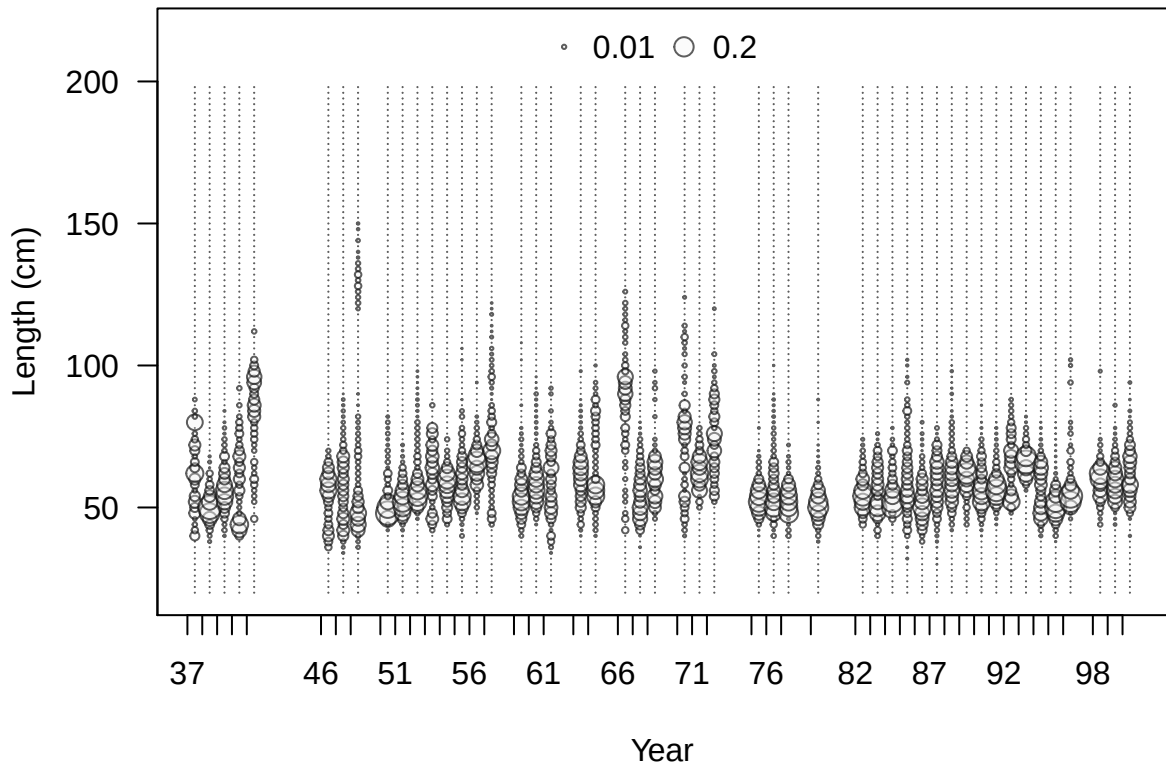




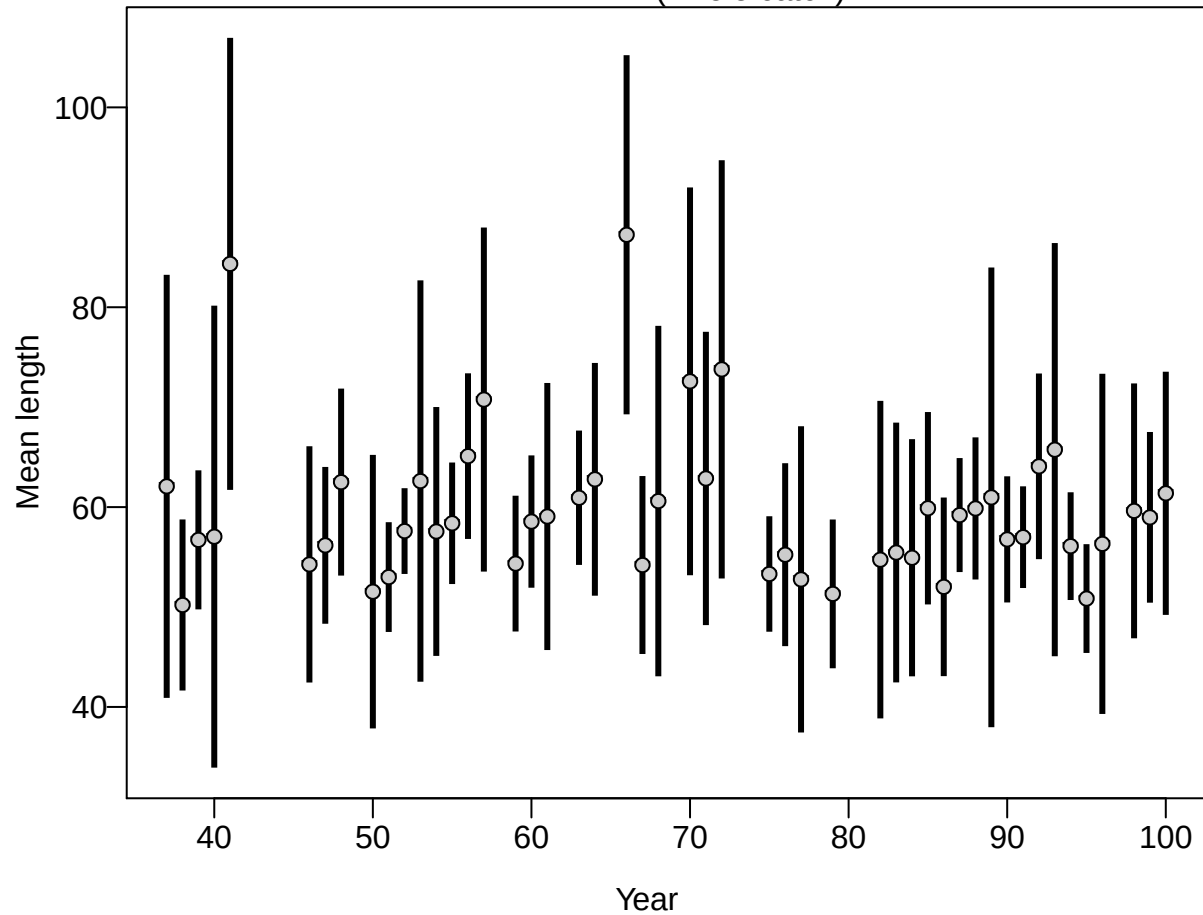


Proportion

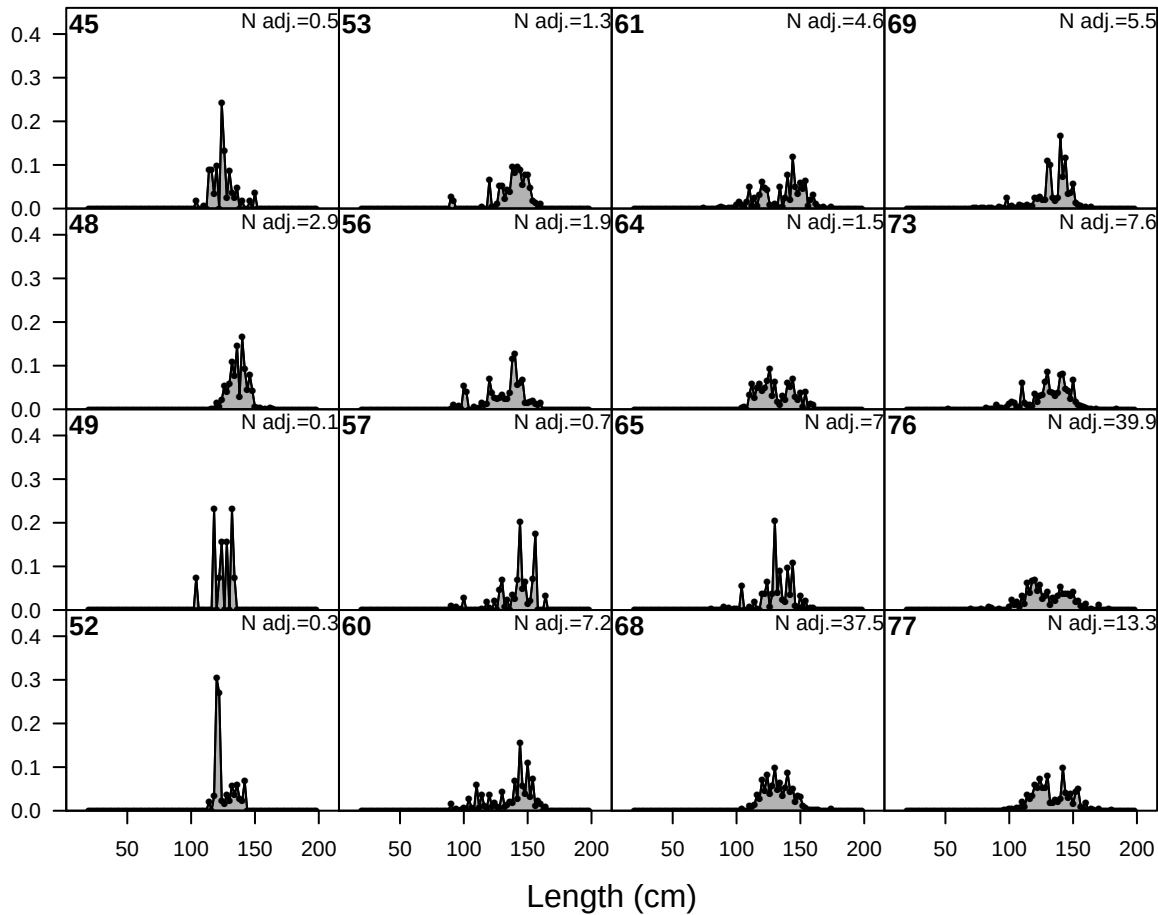
Length (cm)



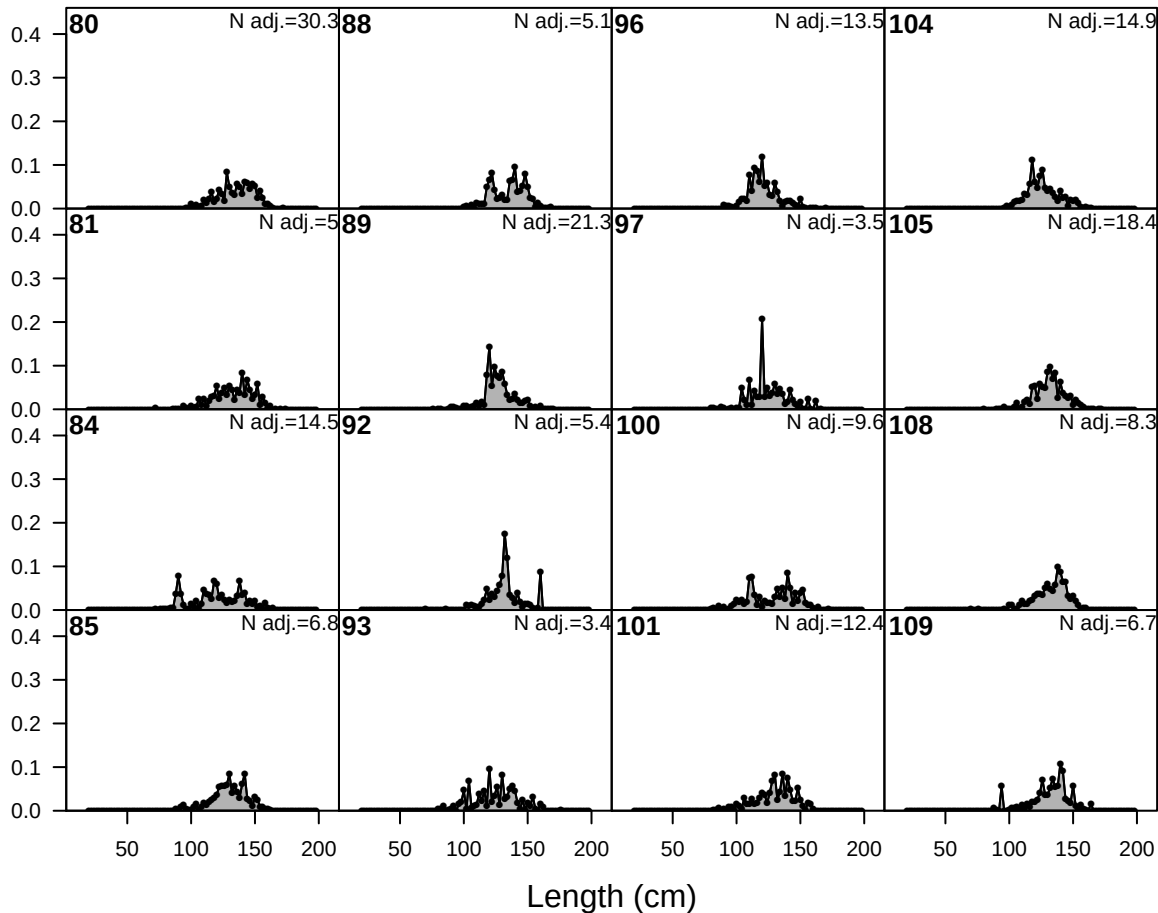
F22-BB (whole catch)



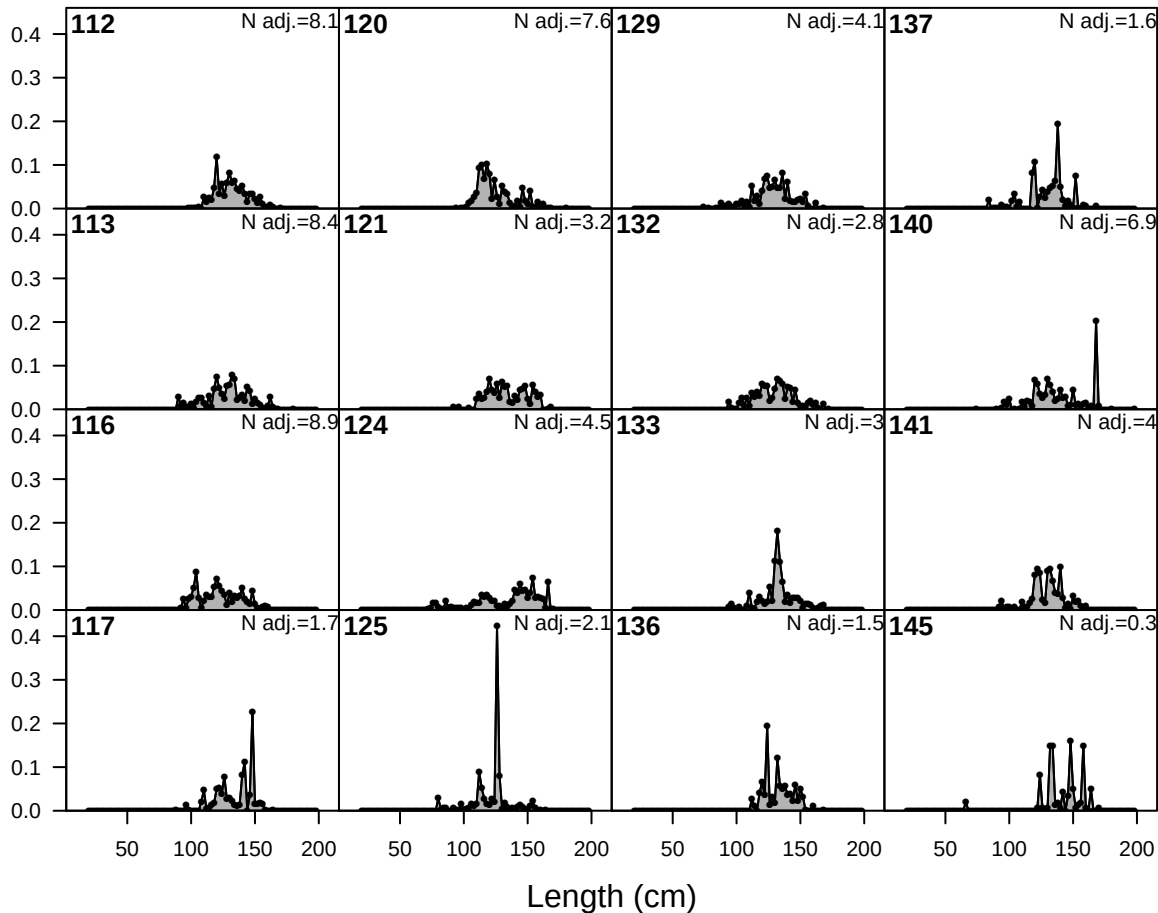
Proportion



Proportion

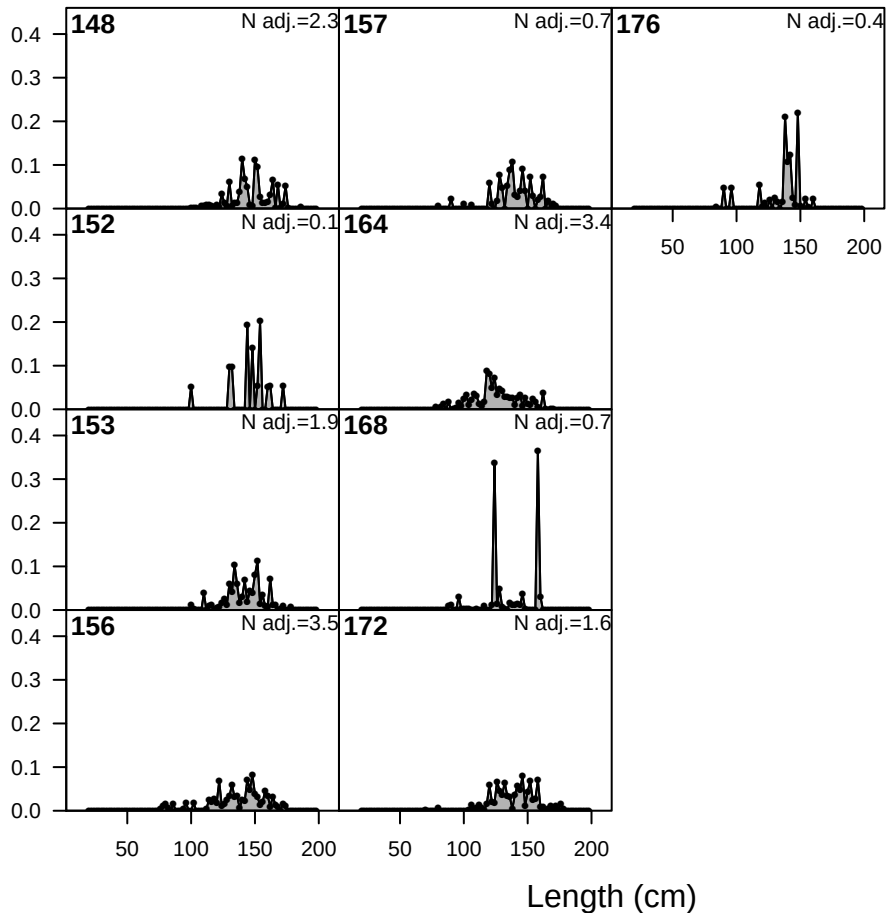


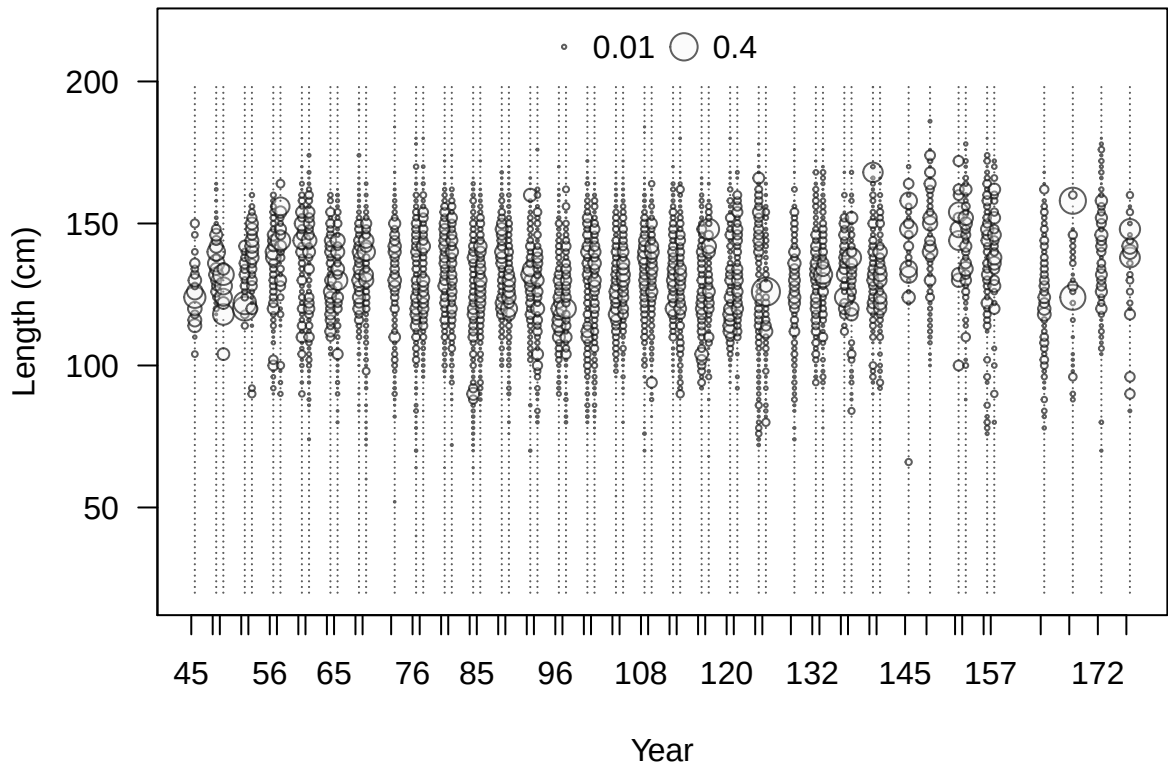
Proportion



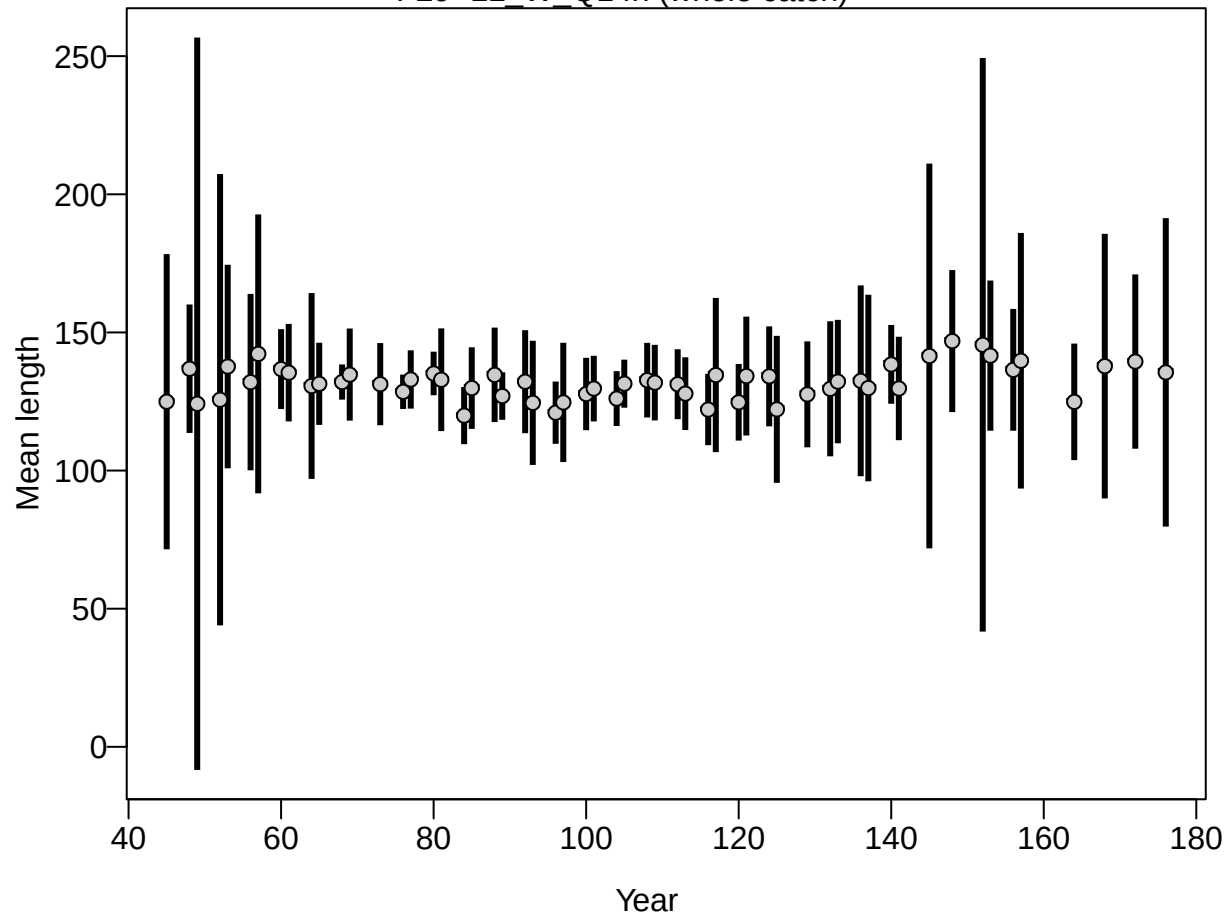


Proportion

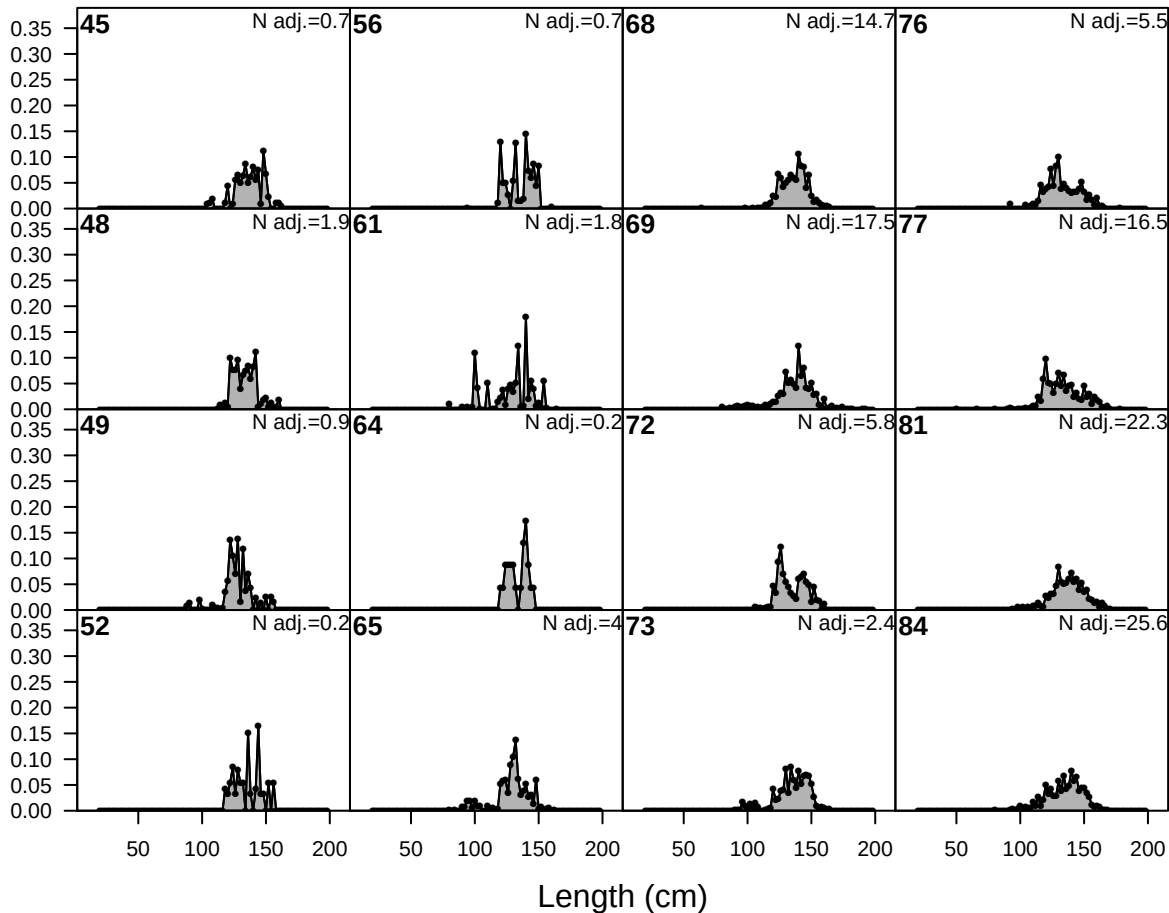


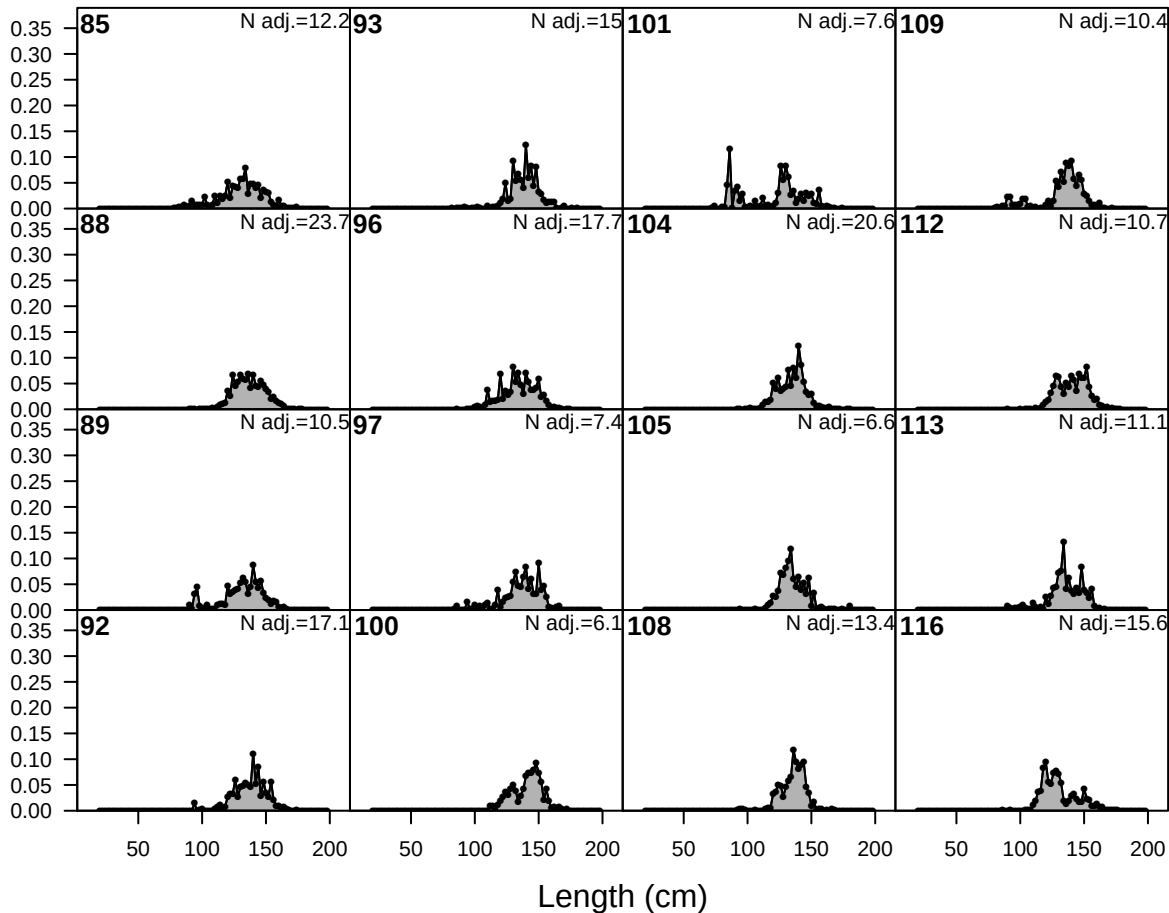


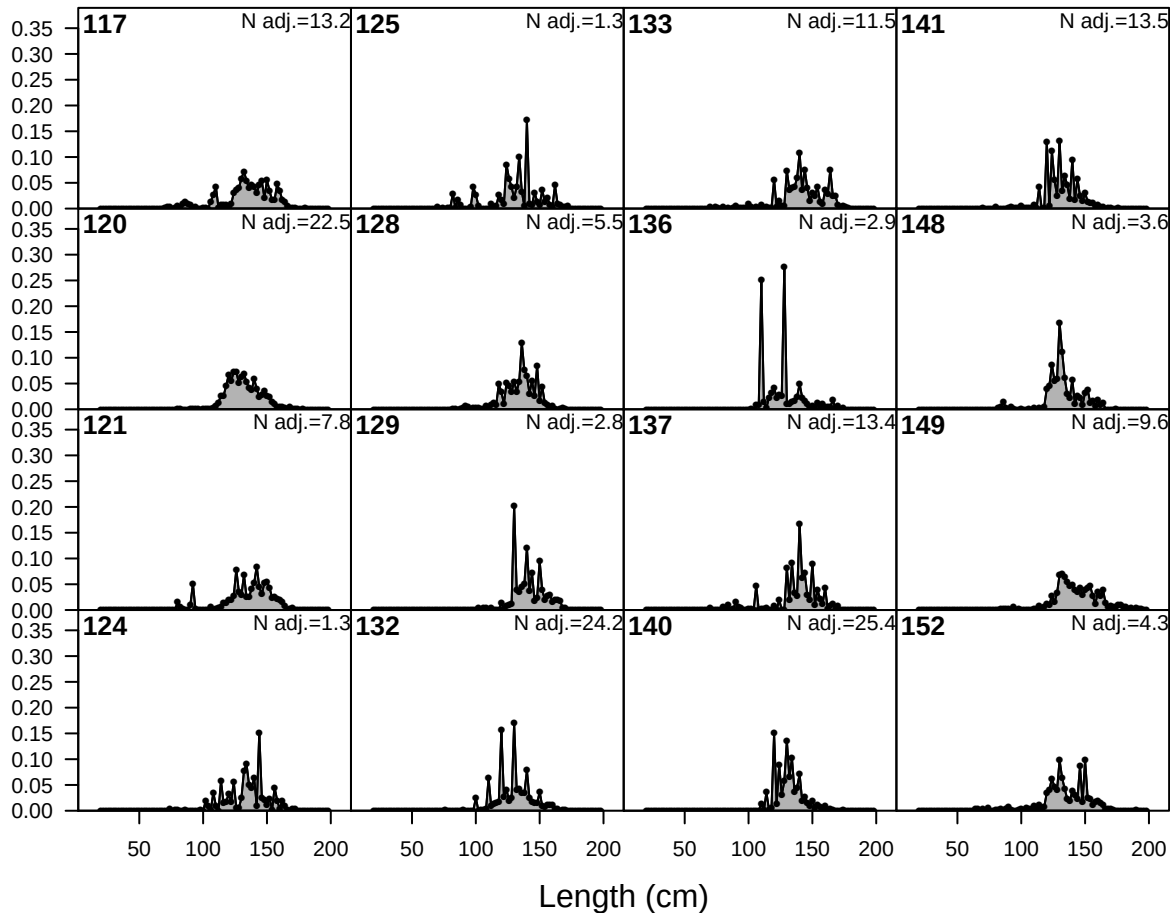
F29-LL W\_Q14n (whole catch)



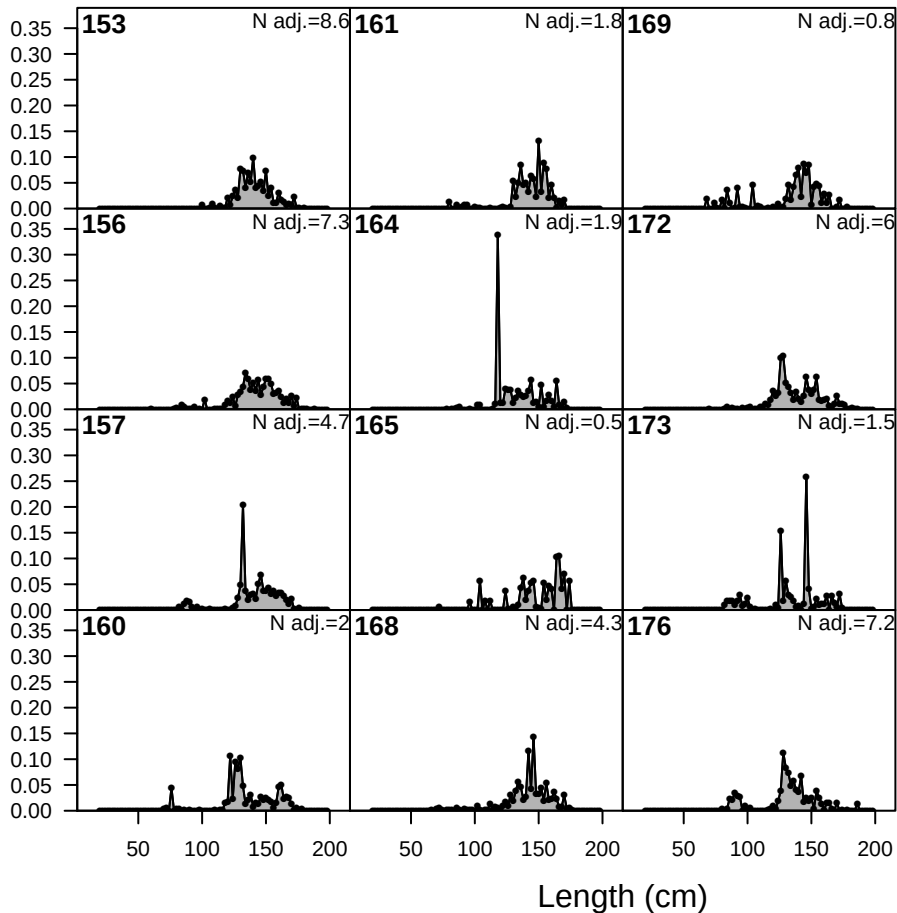
Proportion

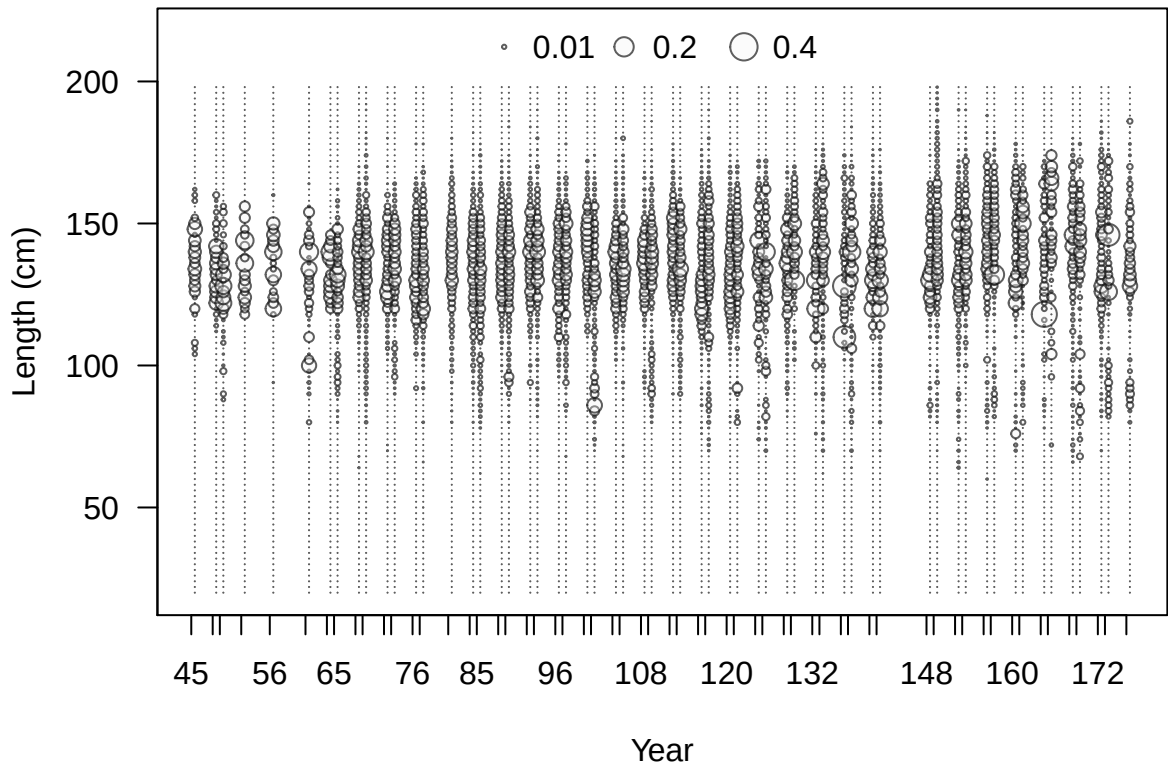






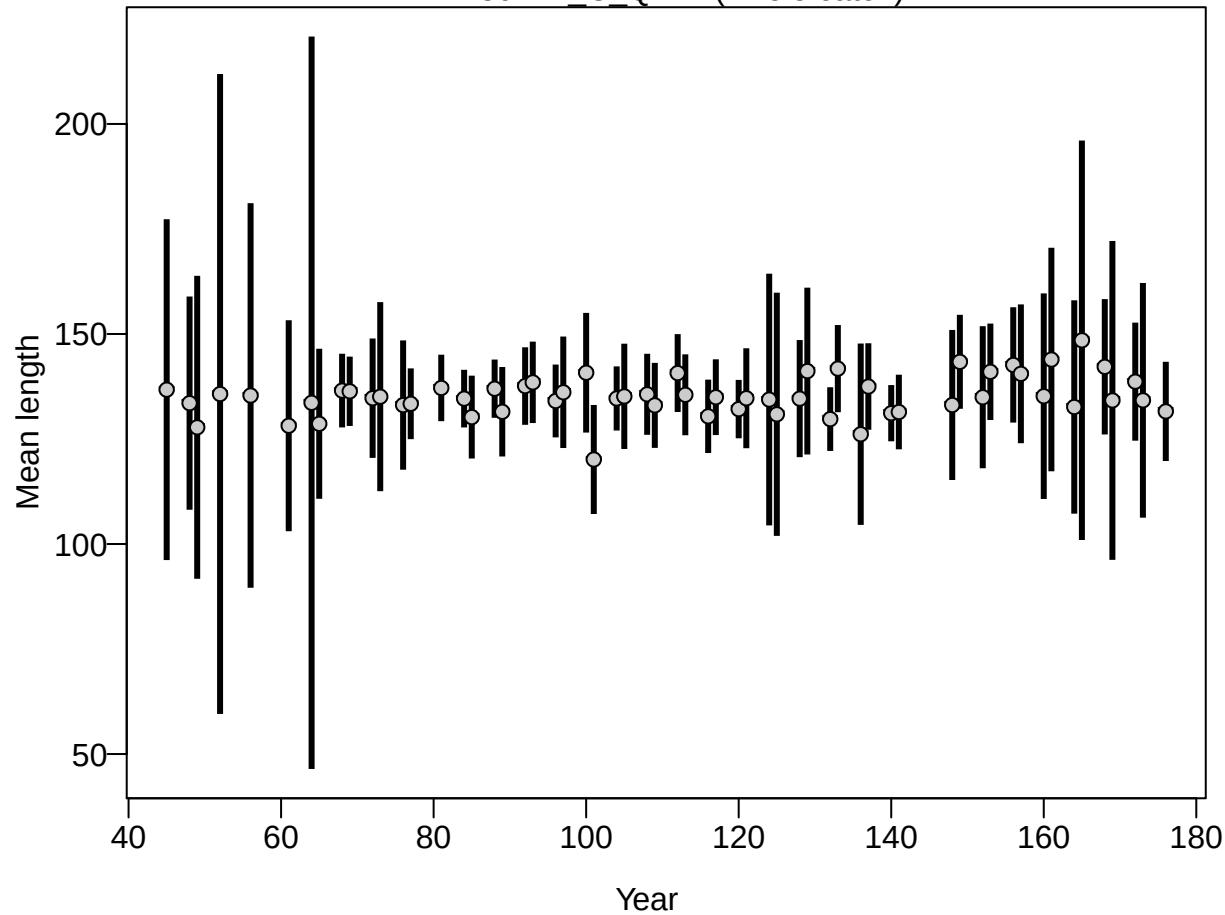
Proportion



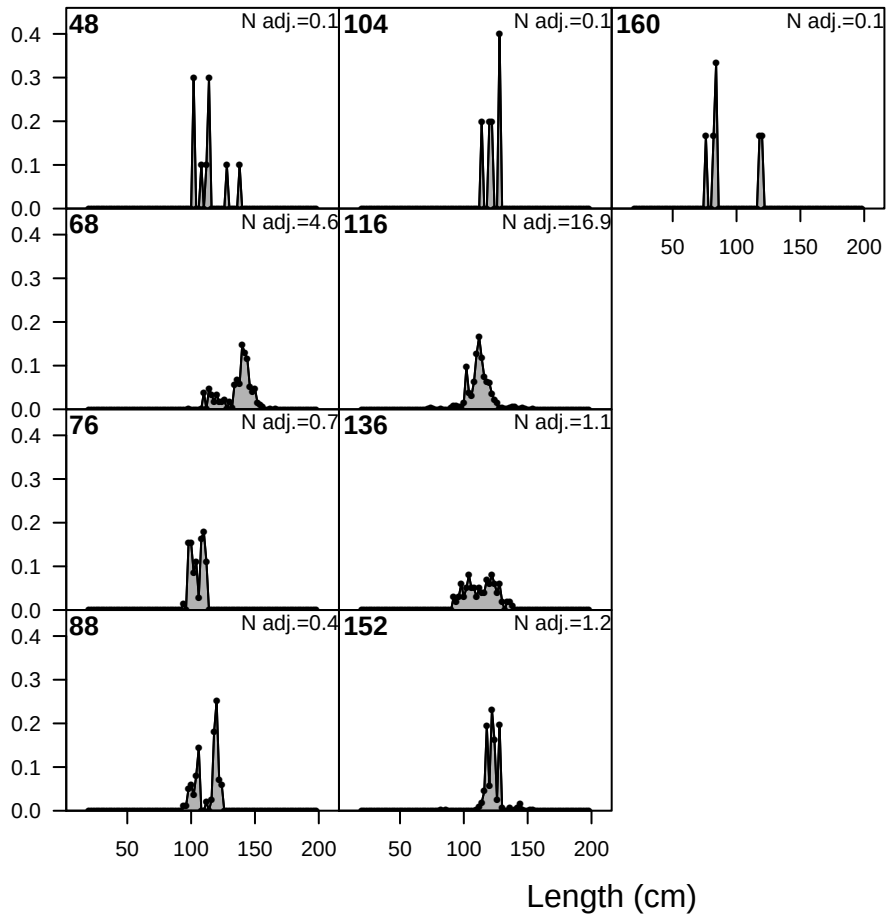


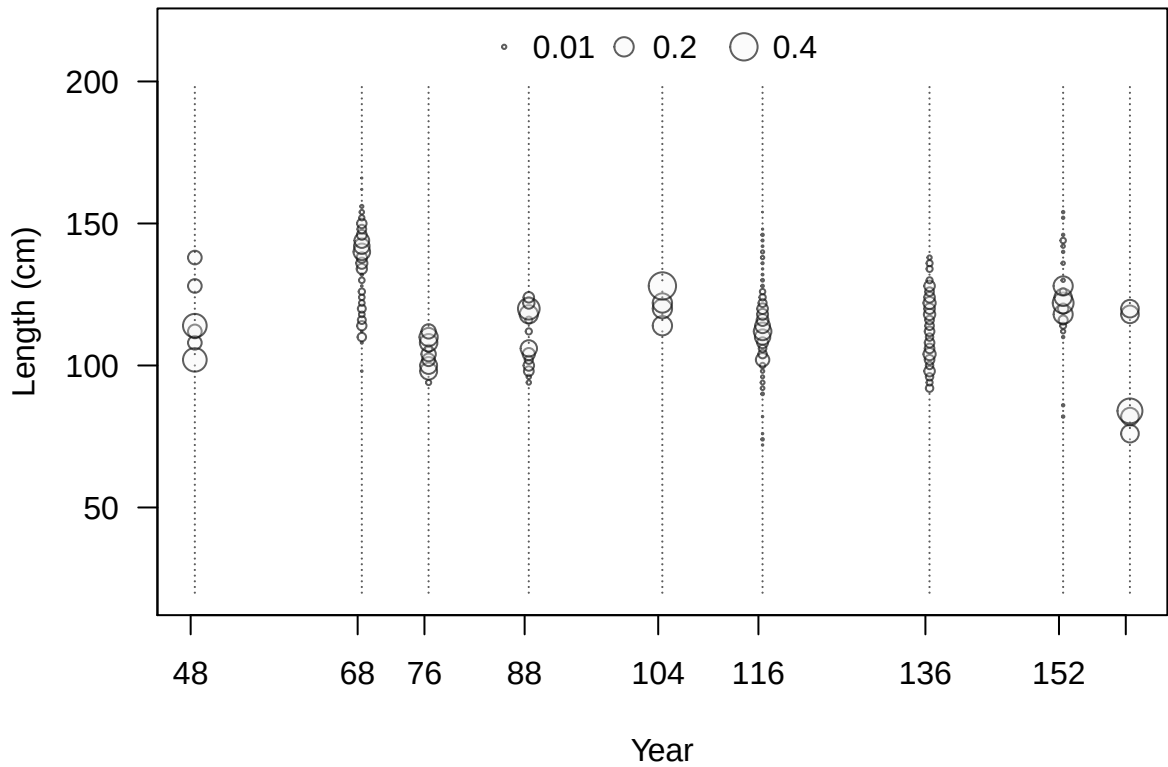


F30-LL\_C\_Q14n (whole catch)

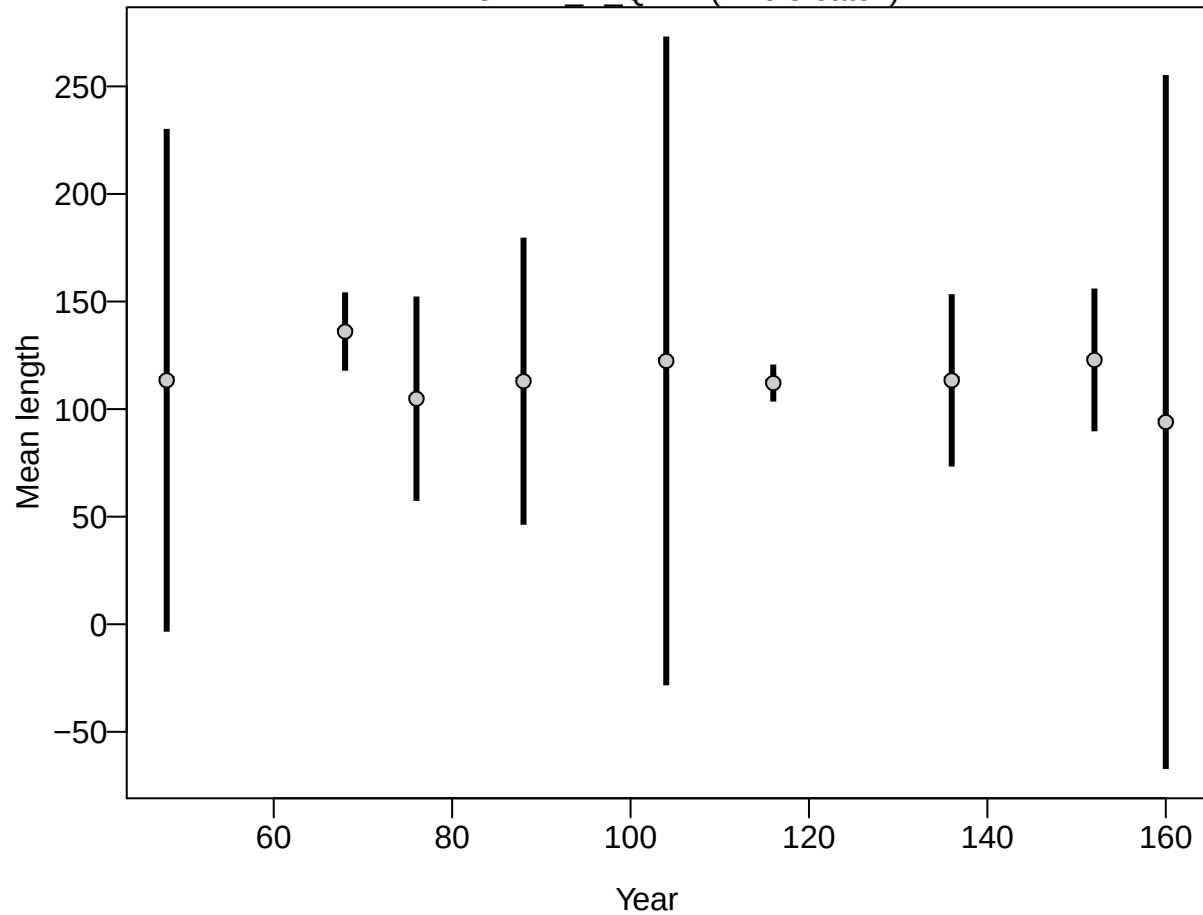


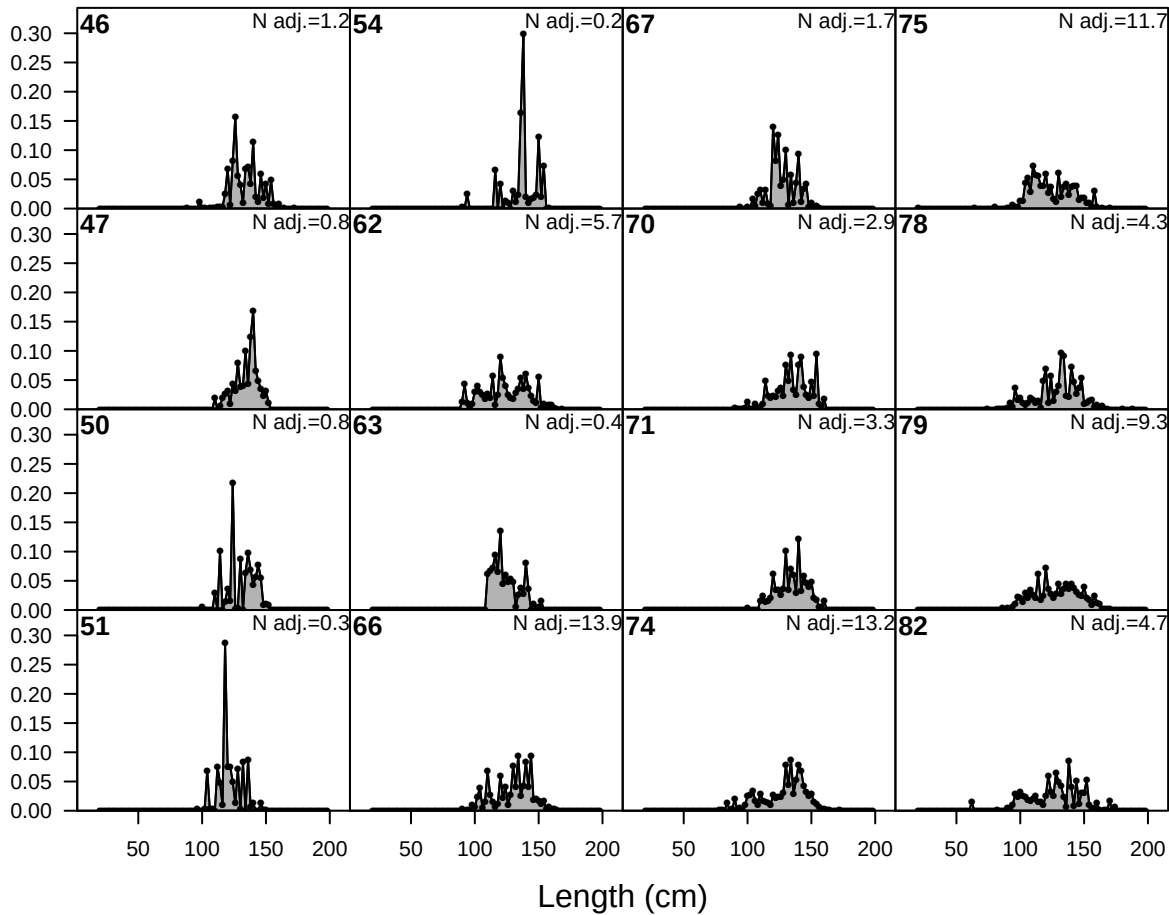
Proportion



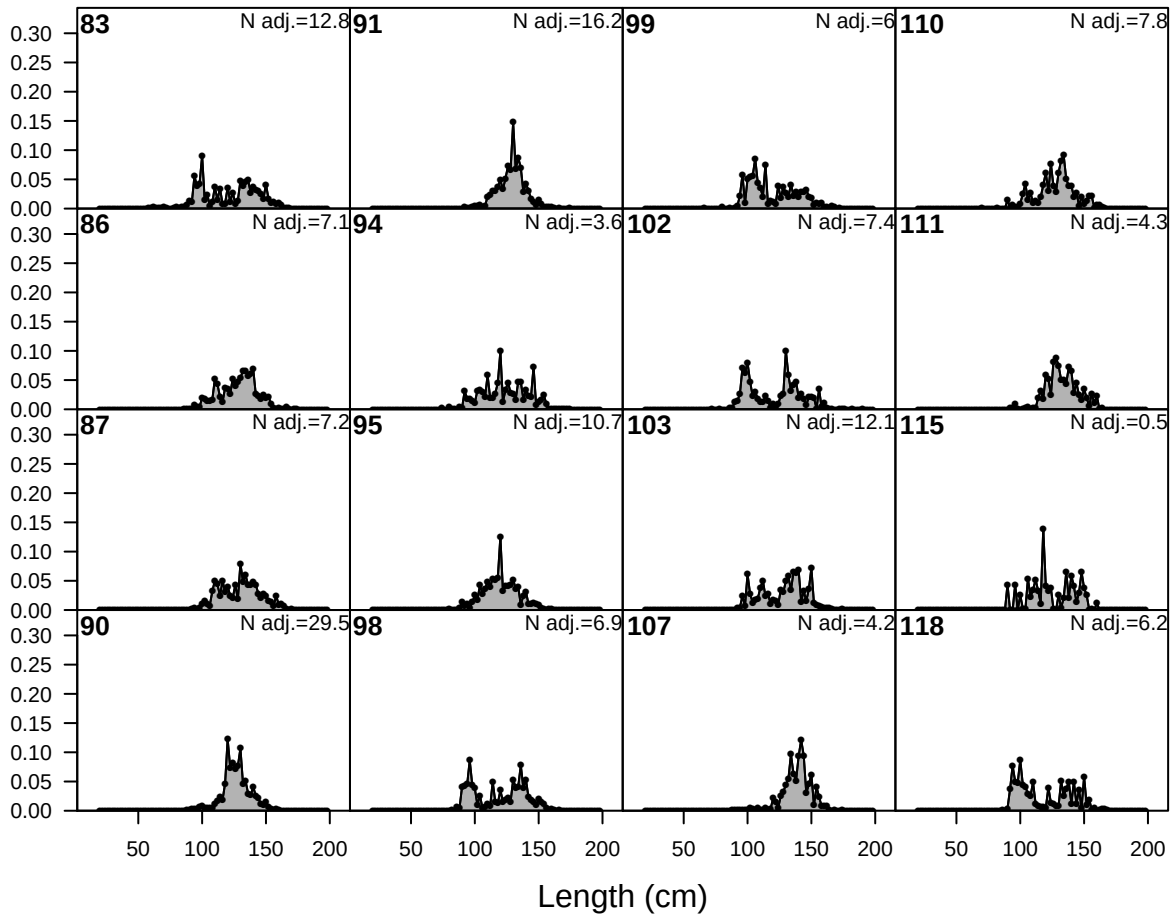


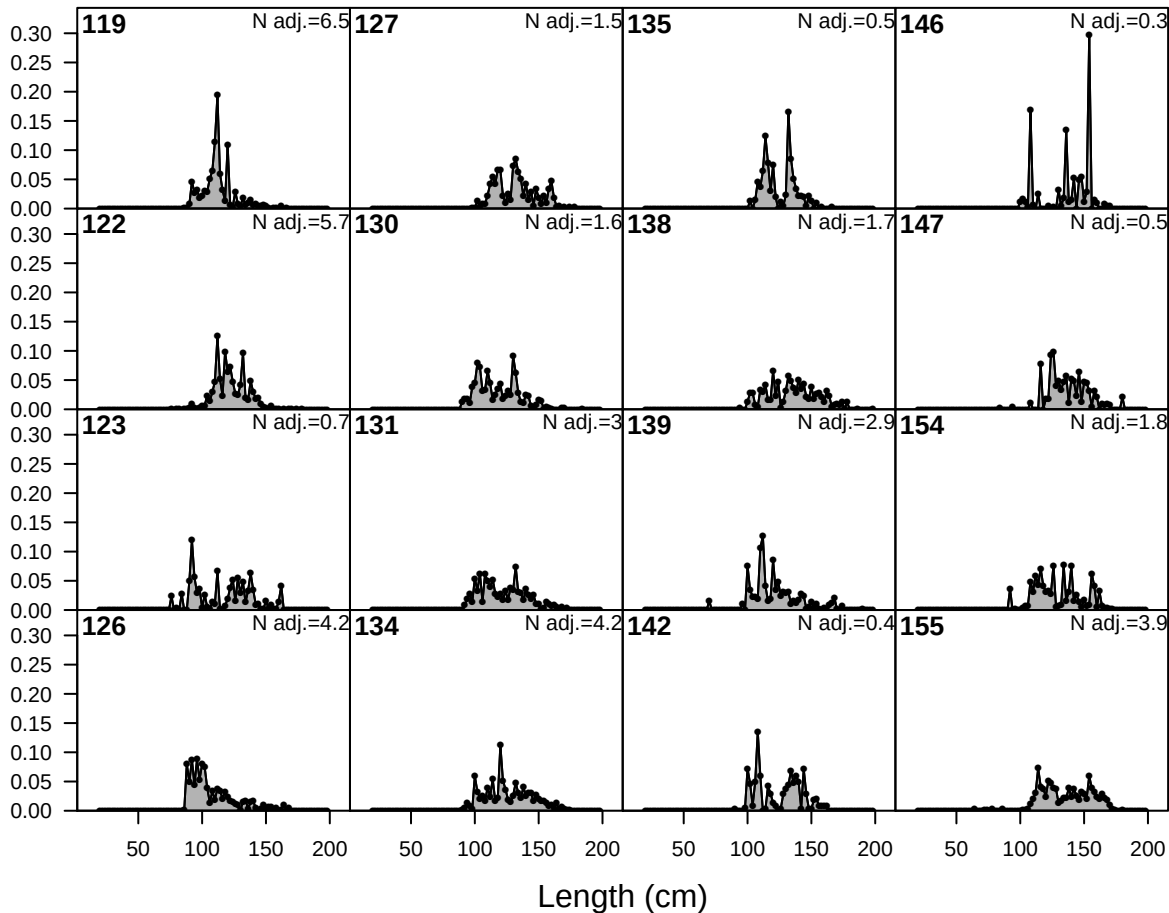
F31-LL E\_Q14n (whole catch)



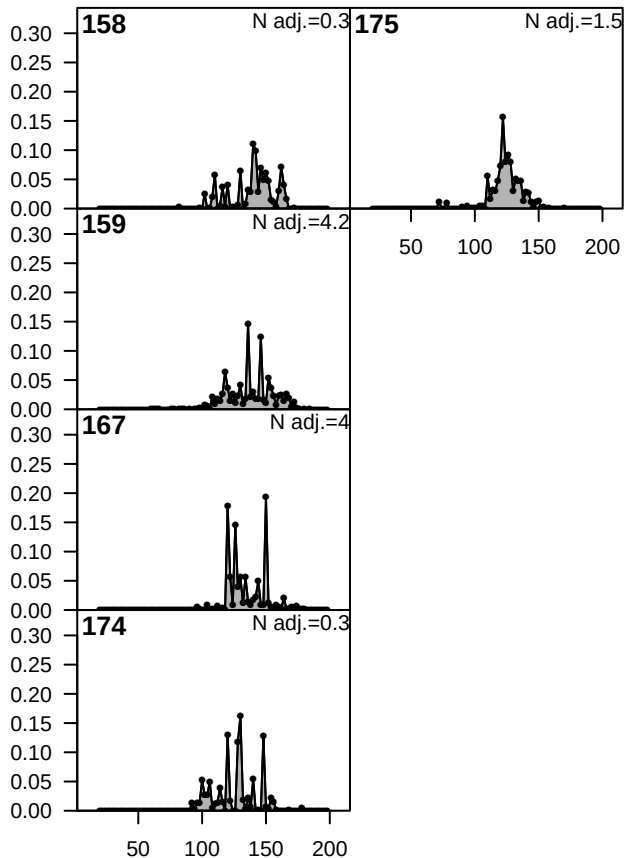


Proportion



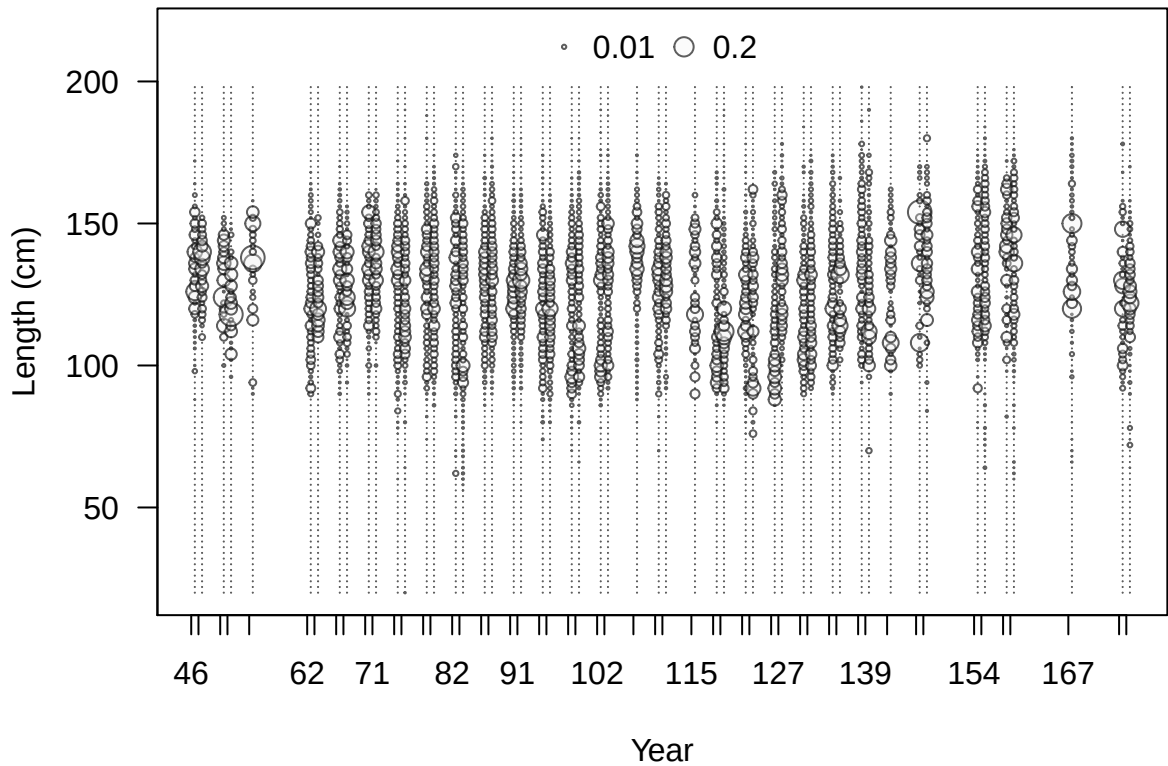


Proportion

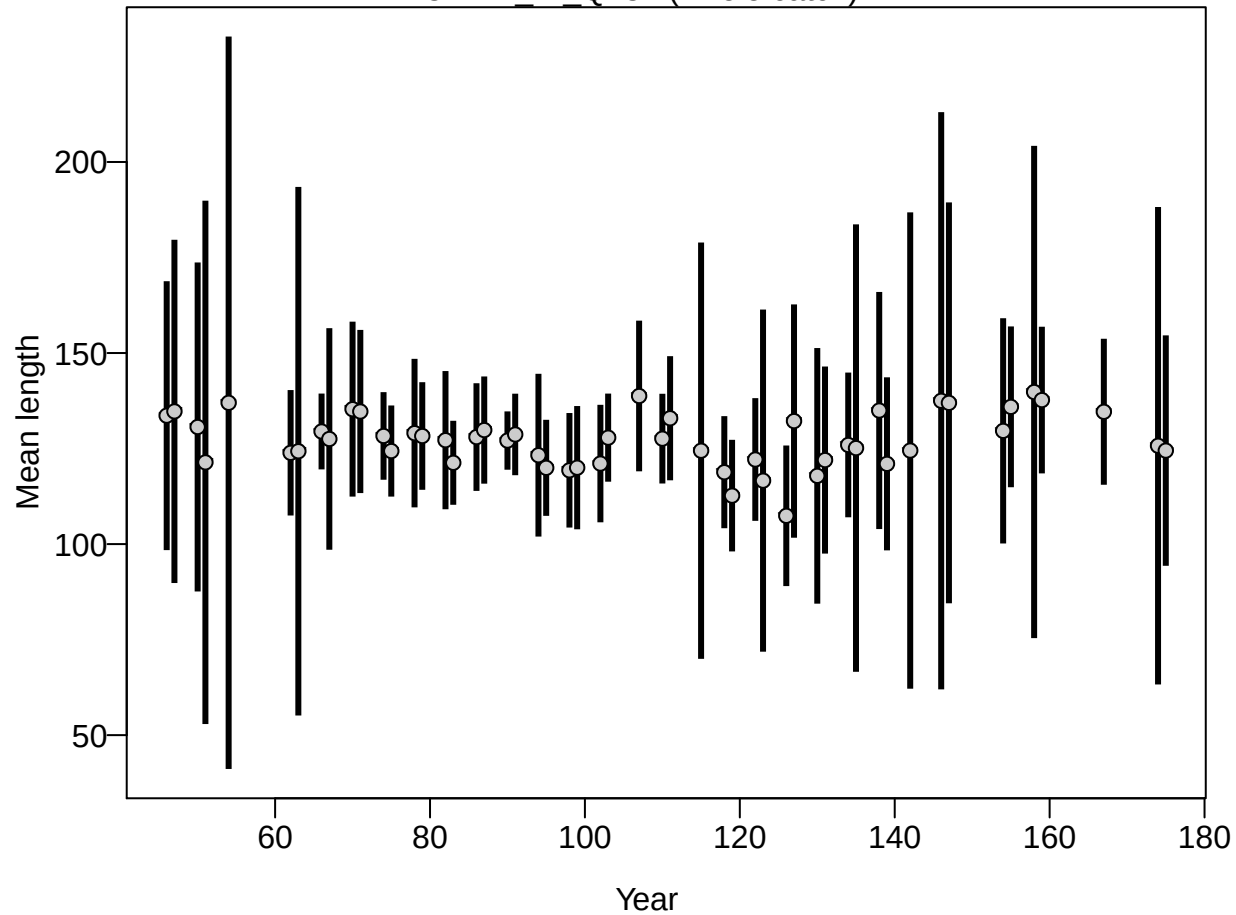


Length (cm)

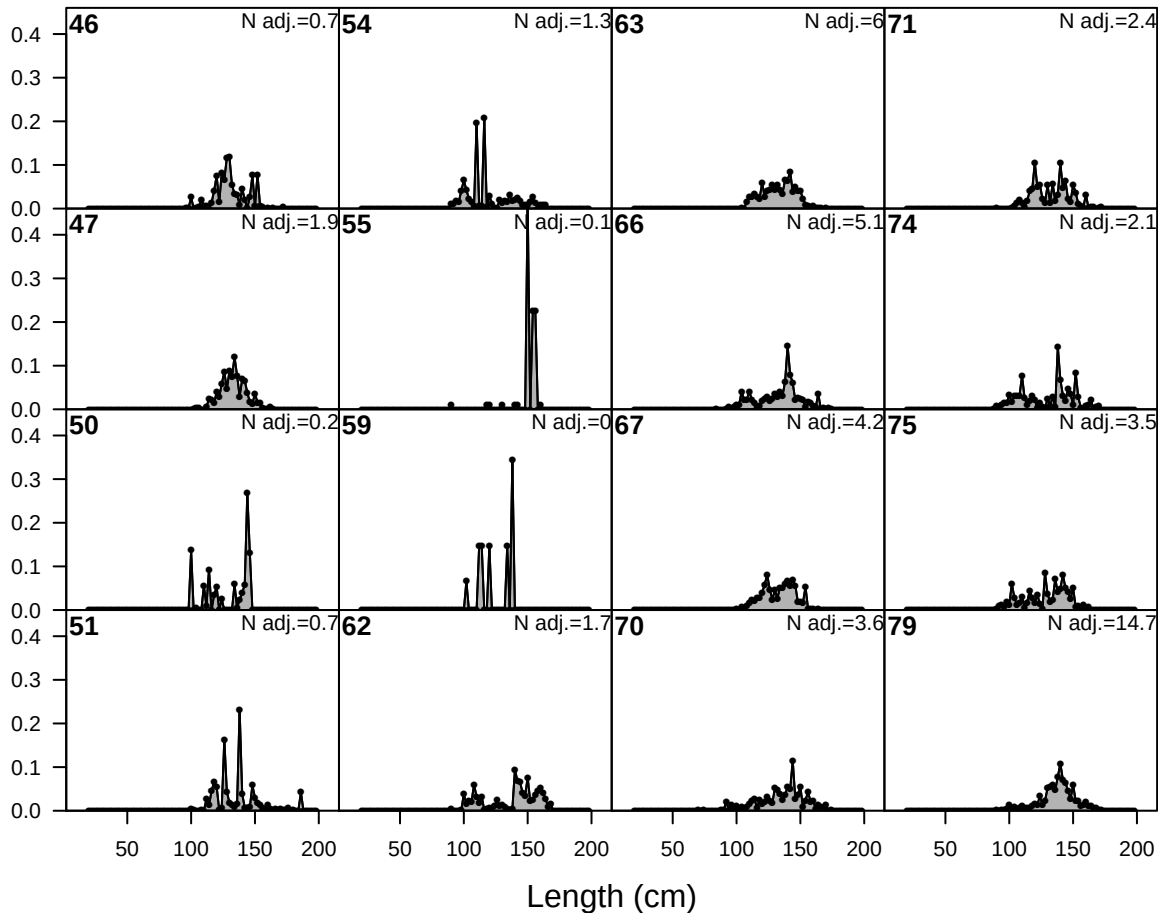




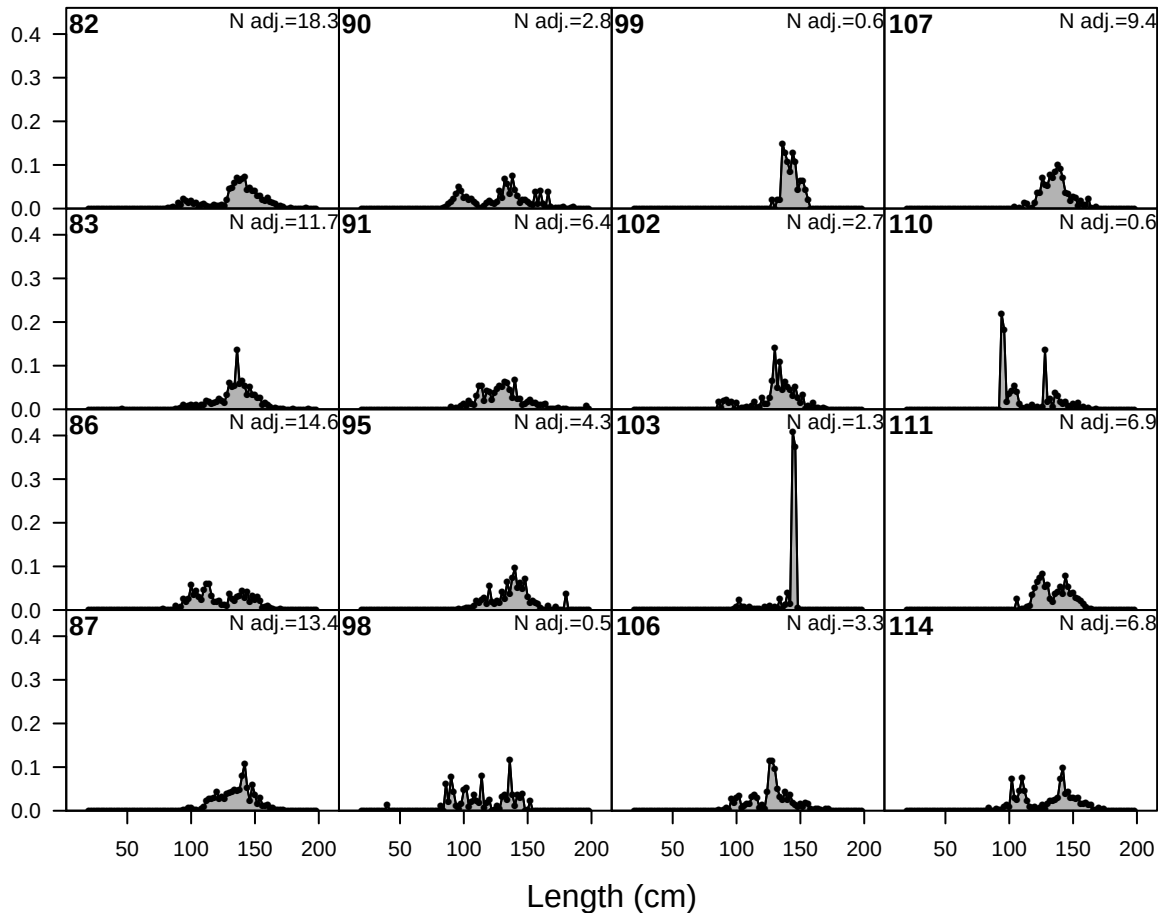
F32-LL\_W\_Q23n (whole catch)



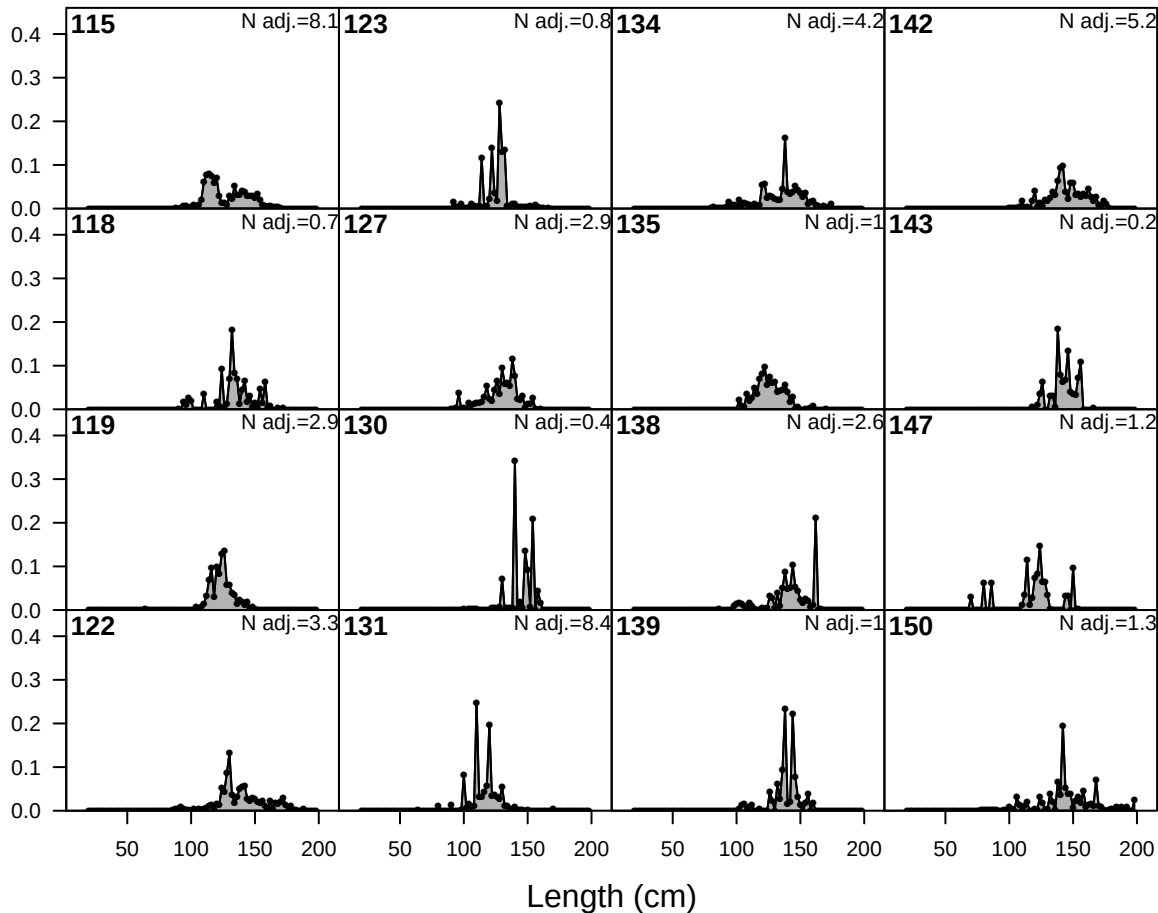
Proportion



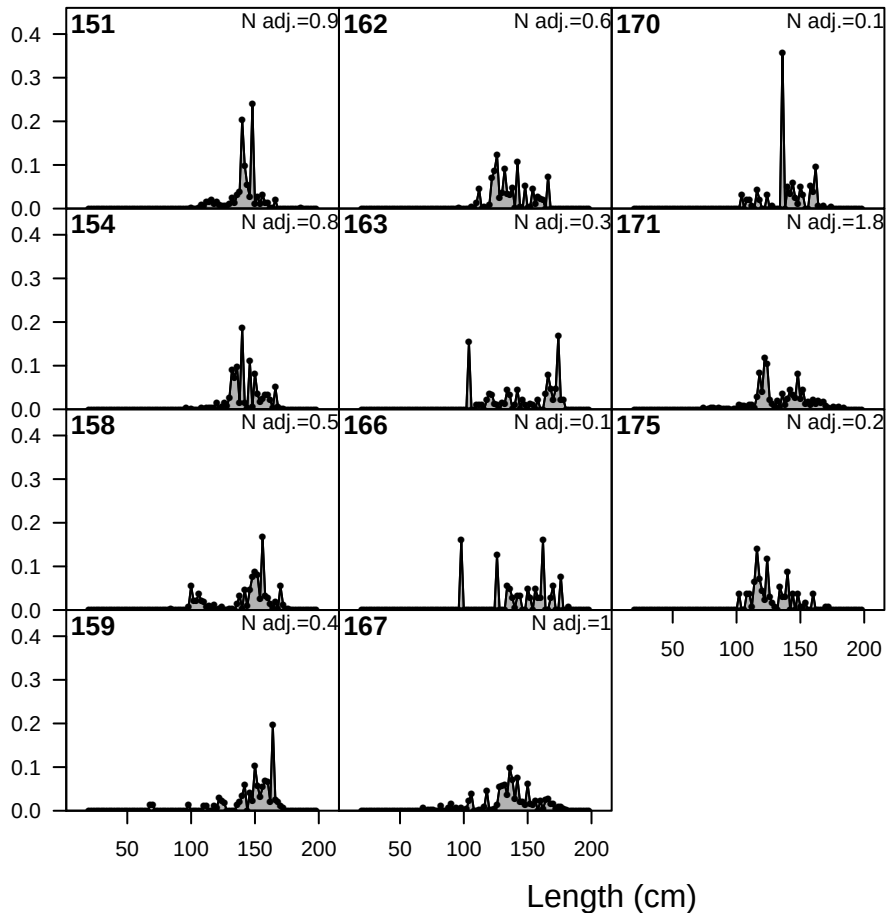
Proportion

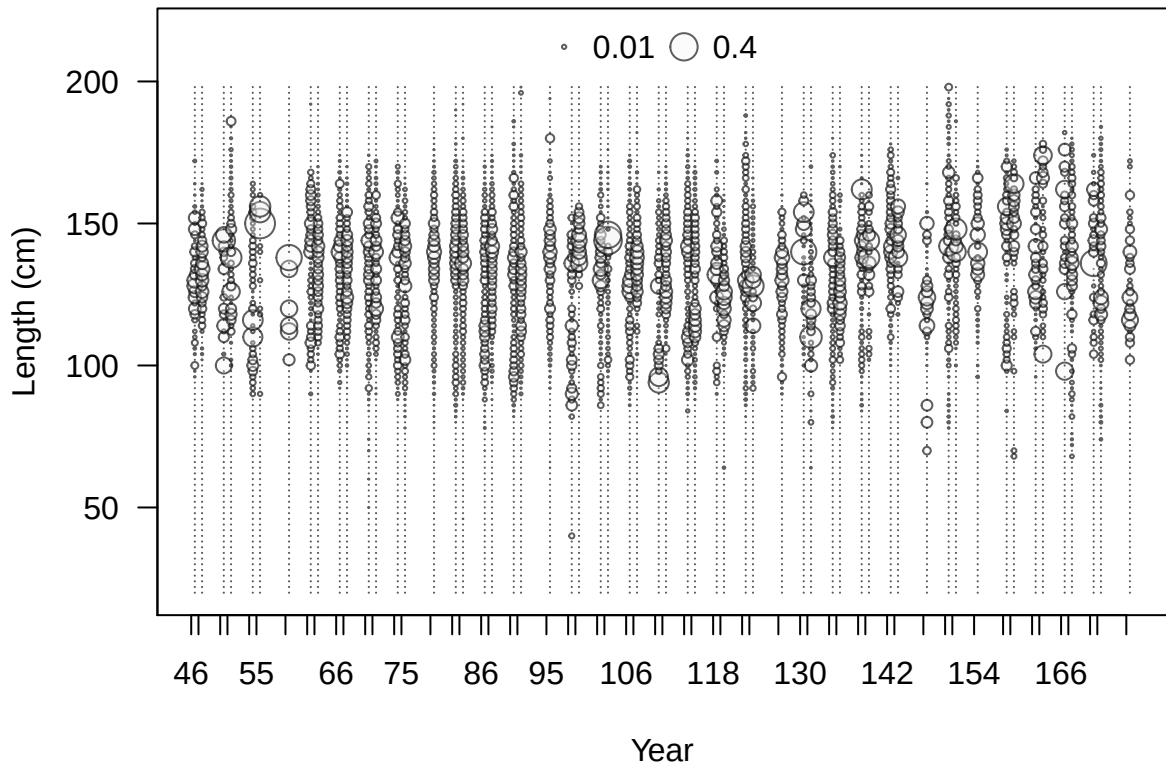


Proportion

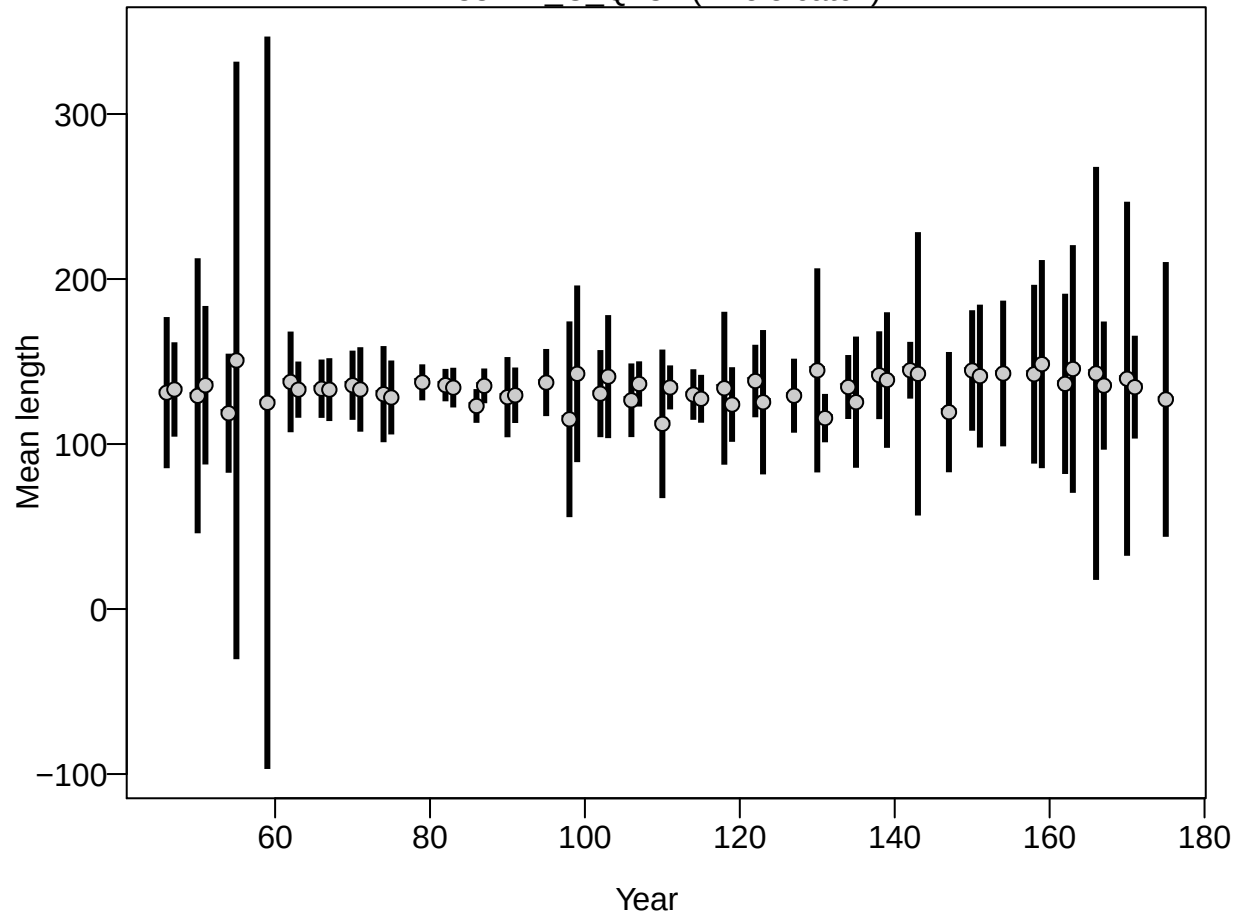


Proportion



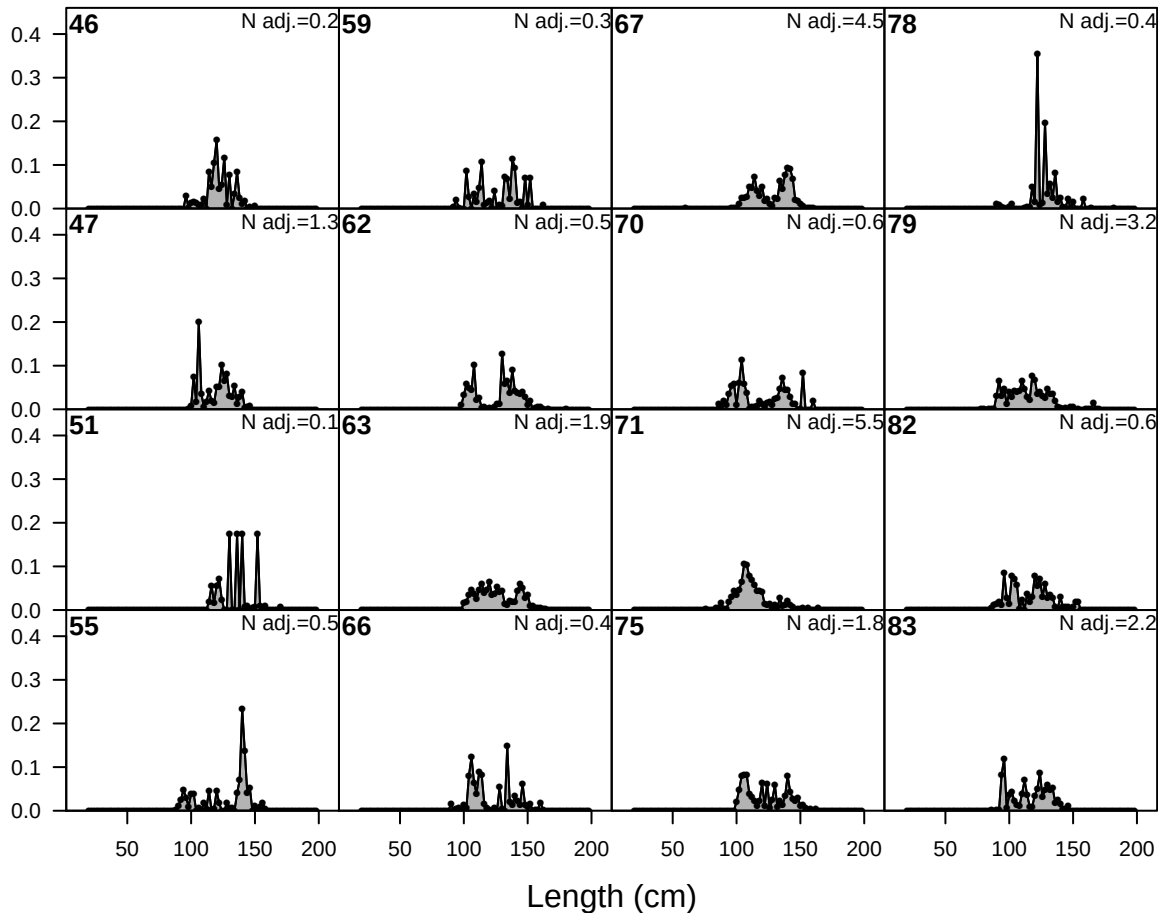


F33-LL\_C\_Q23n (whole catch)

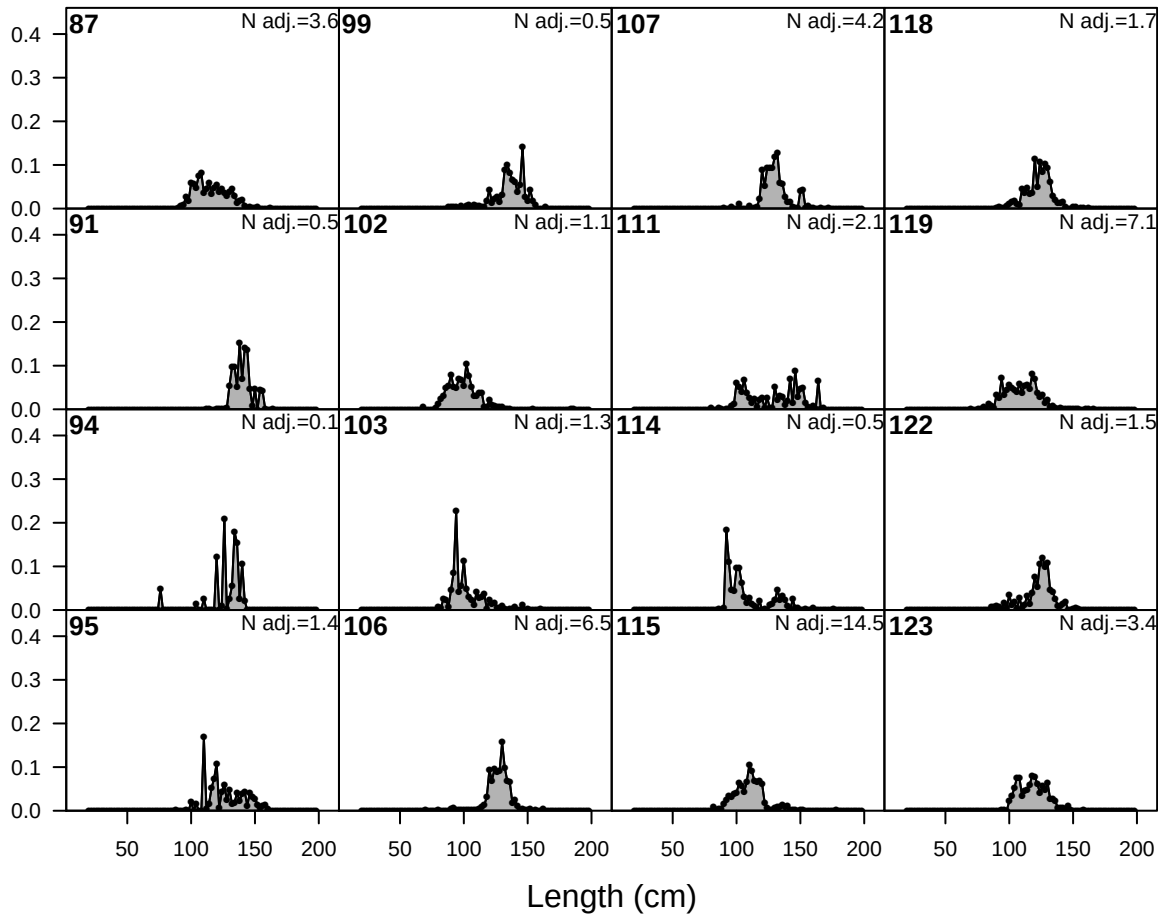




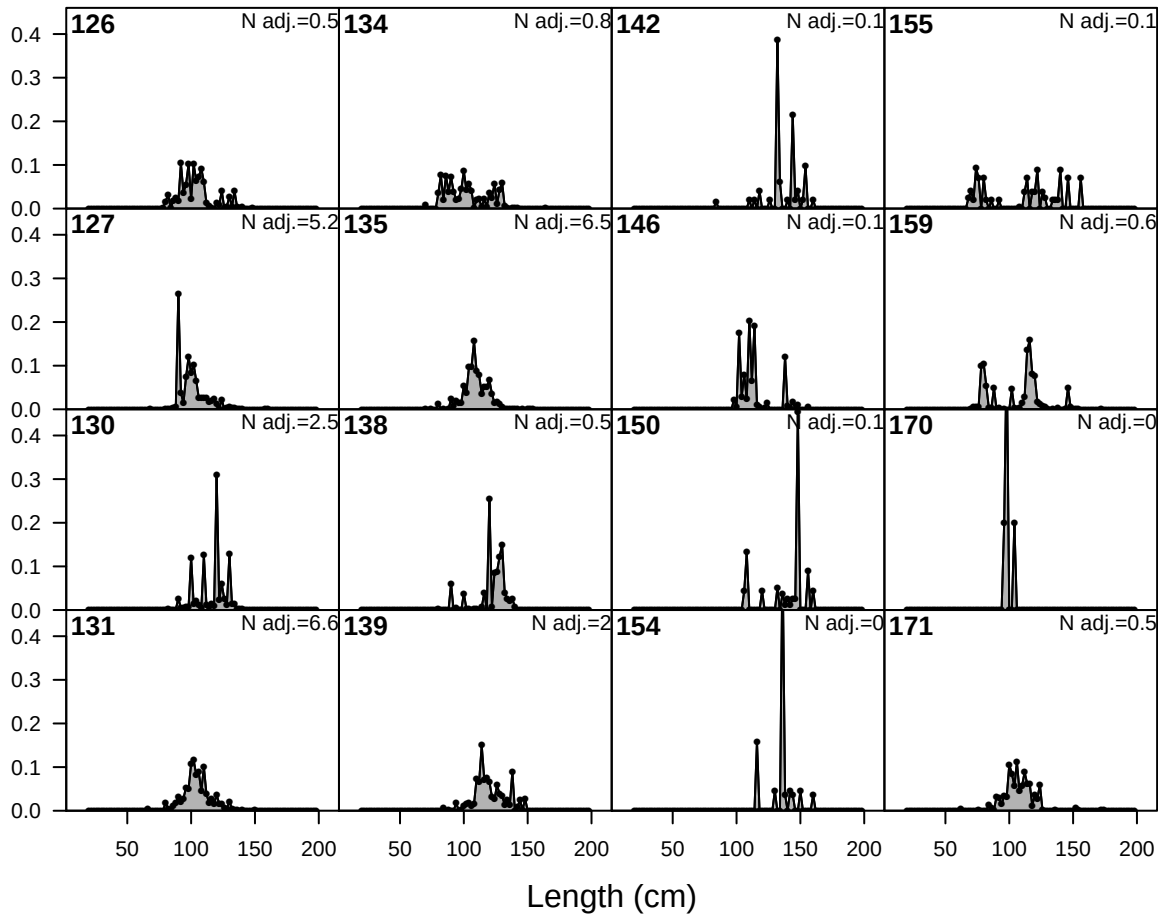
Proportion

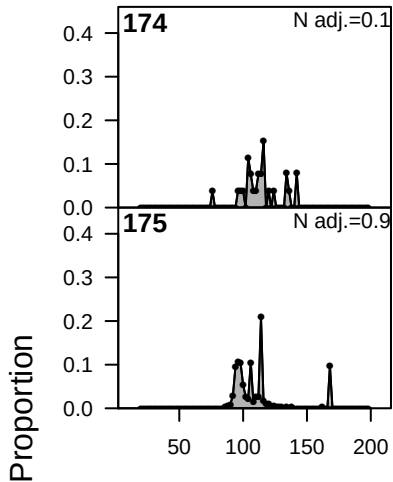


Proportion

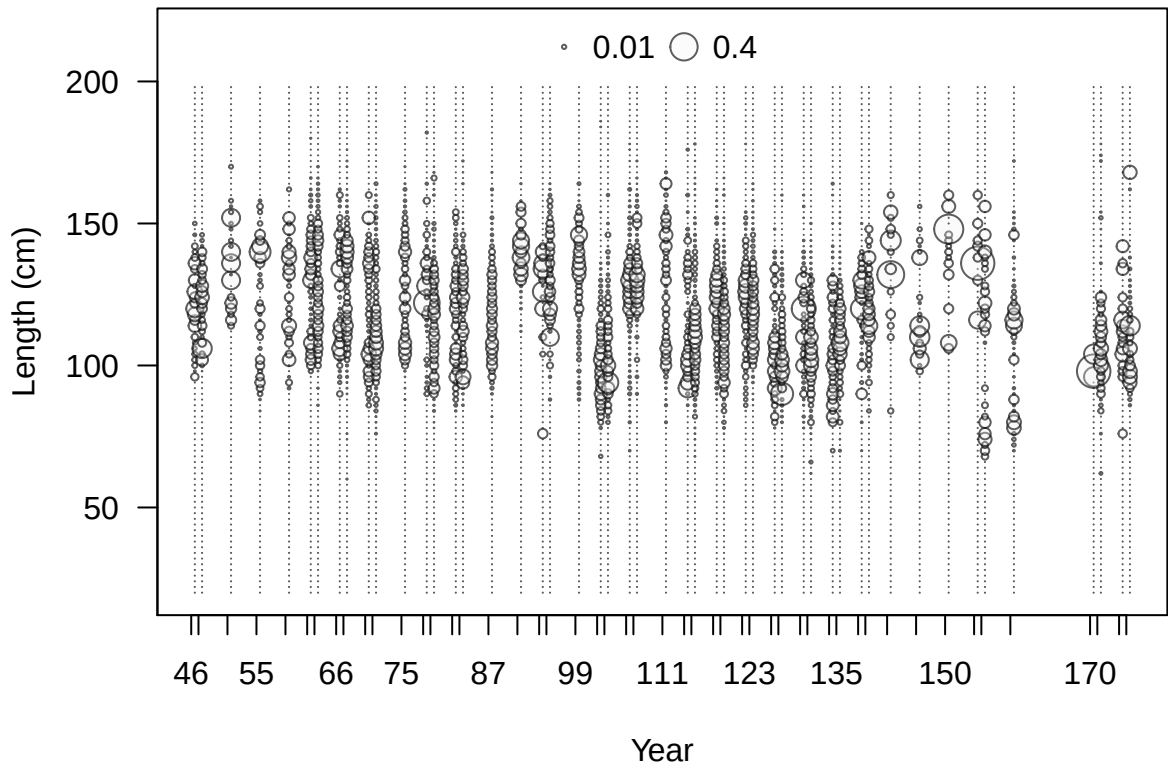


Proportion

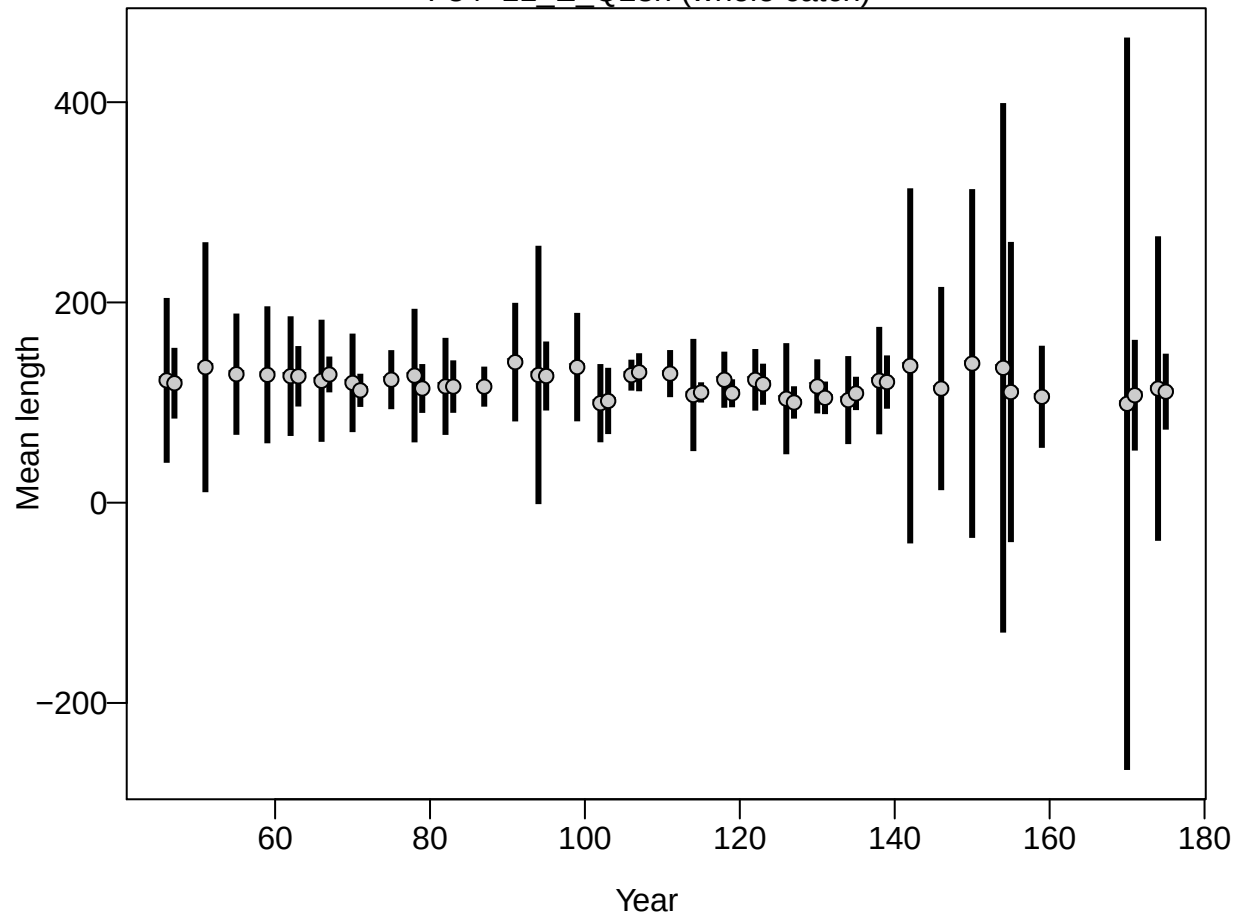




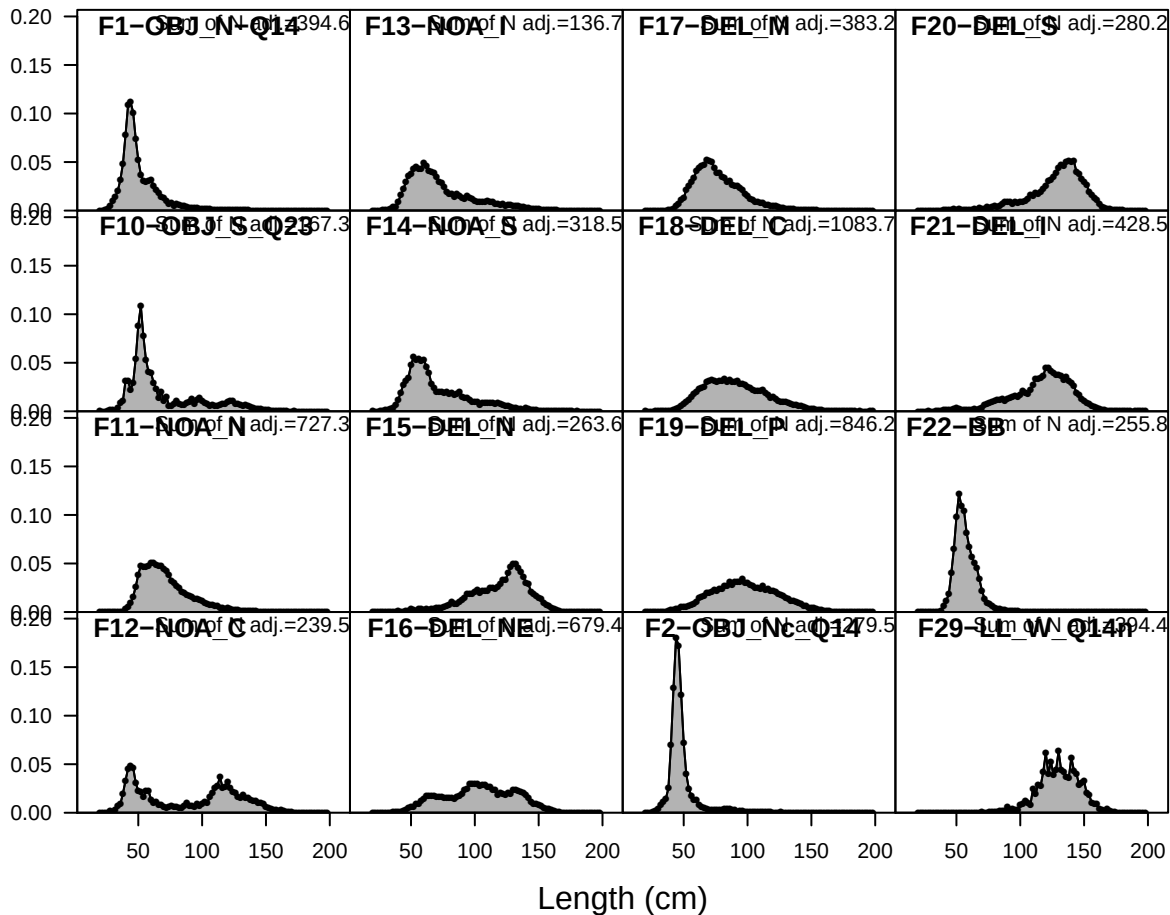
Length (cm)



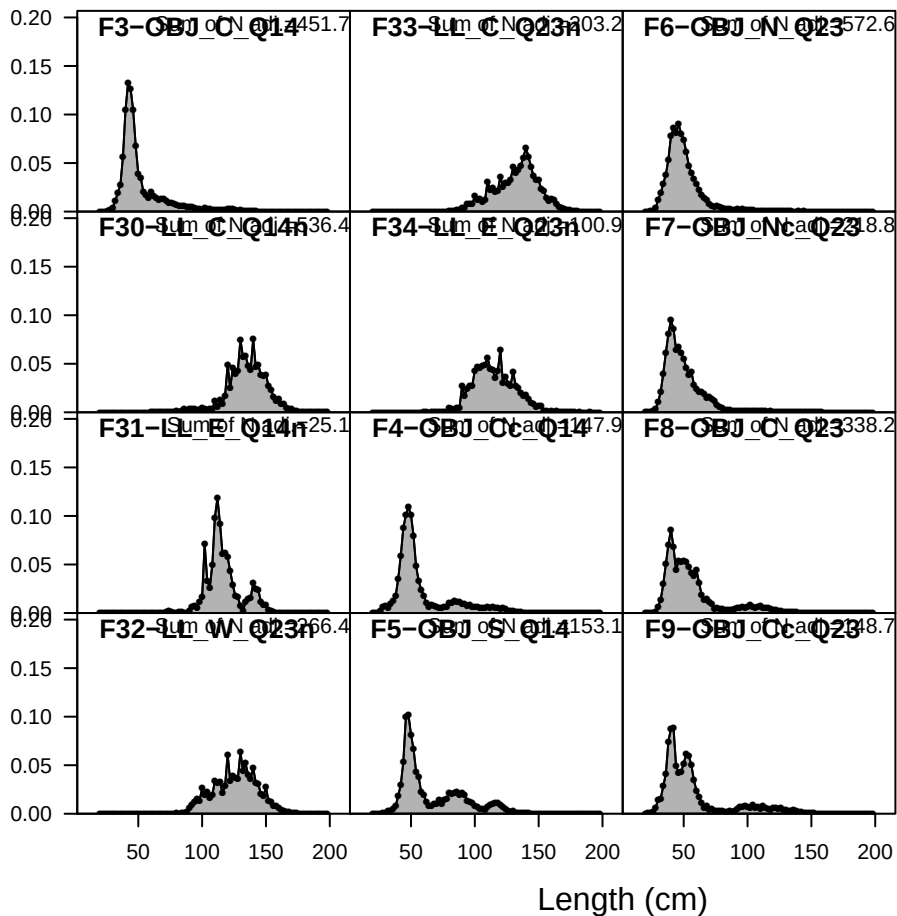
F34-LL E\_Q23n (whole catch)



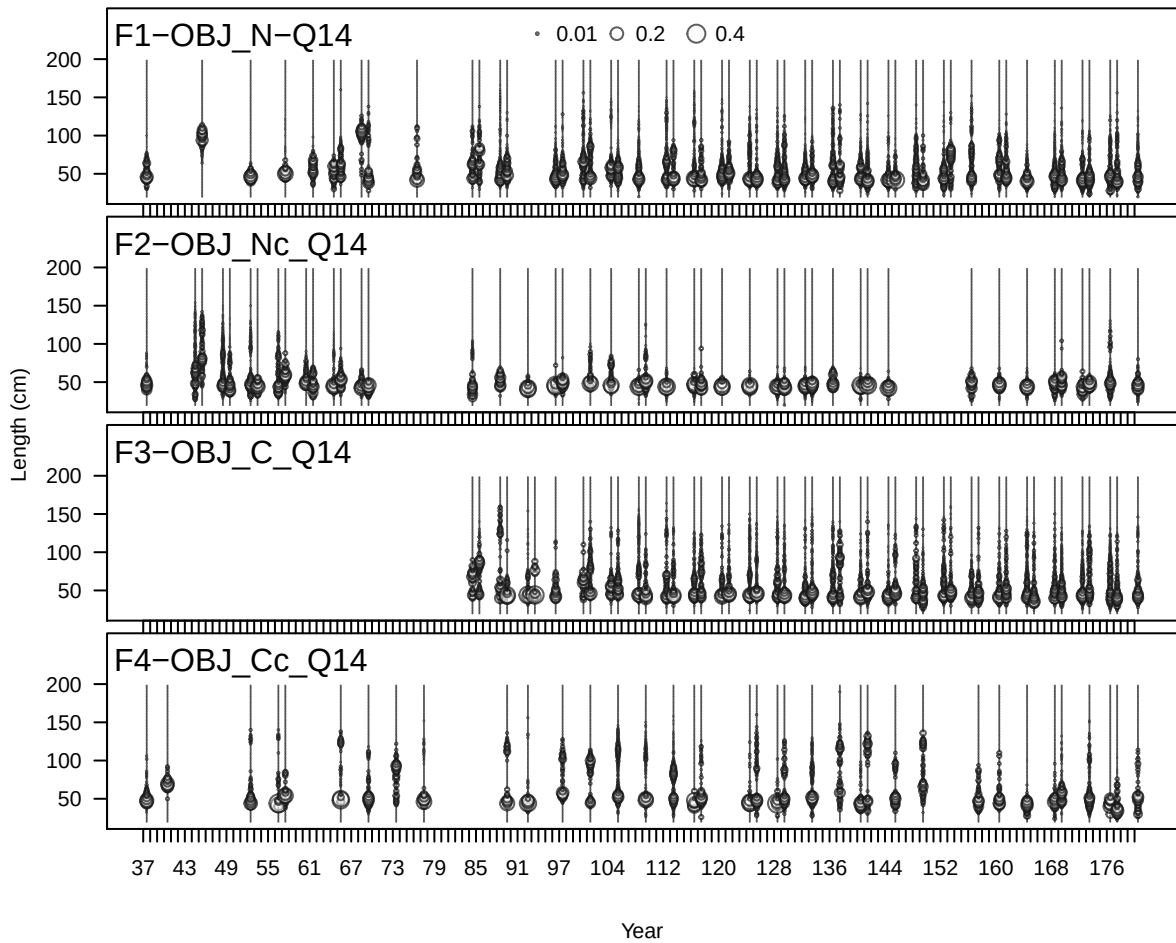
Proportion

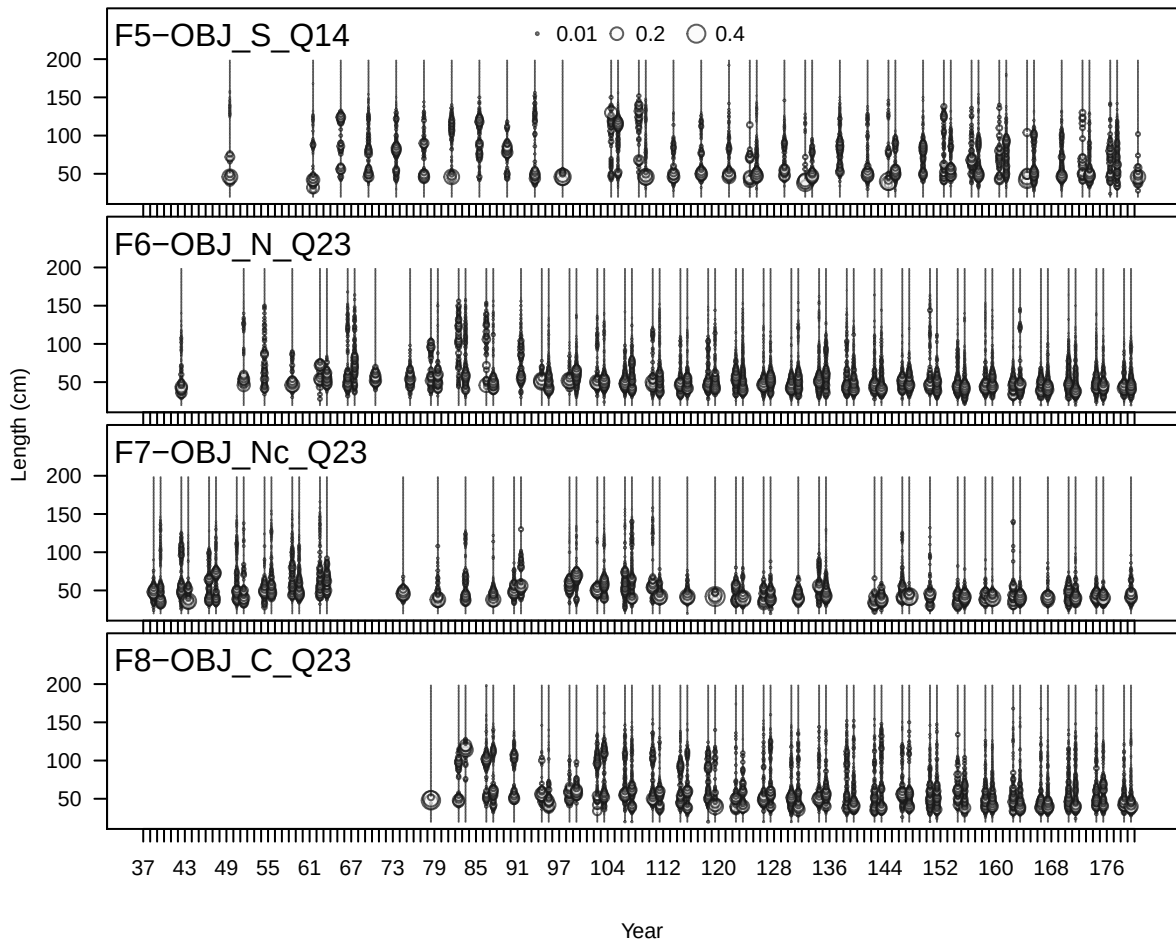


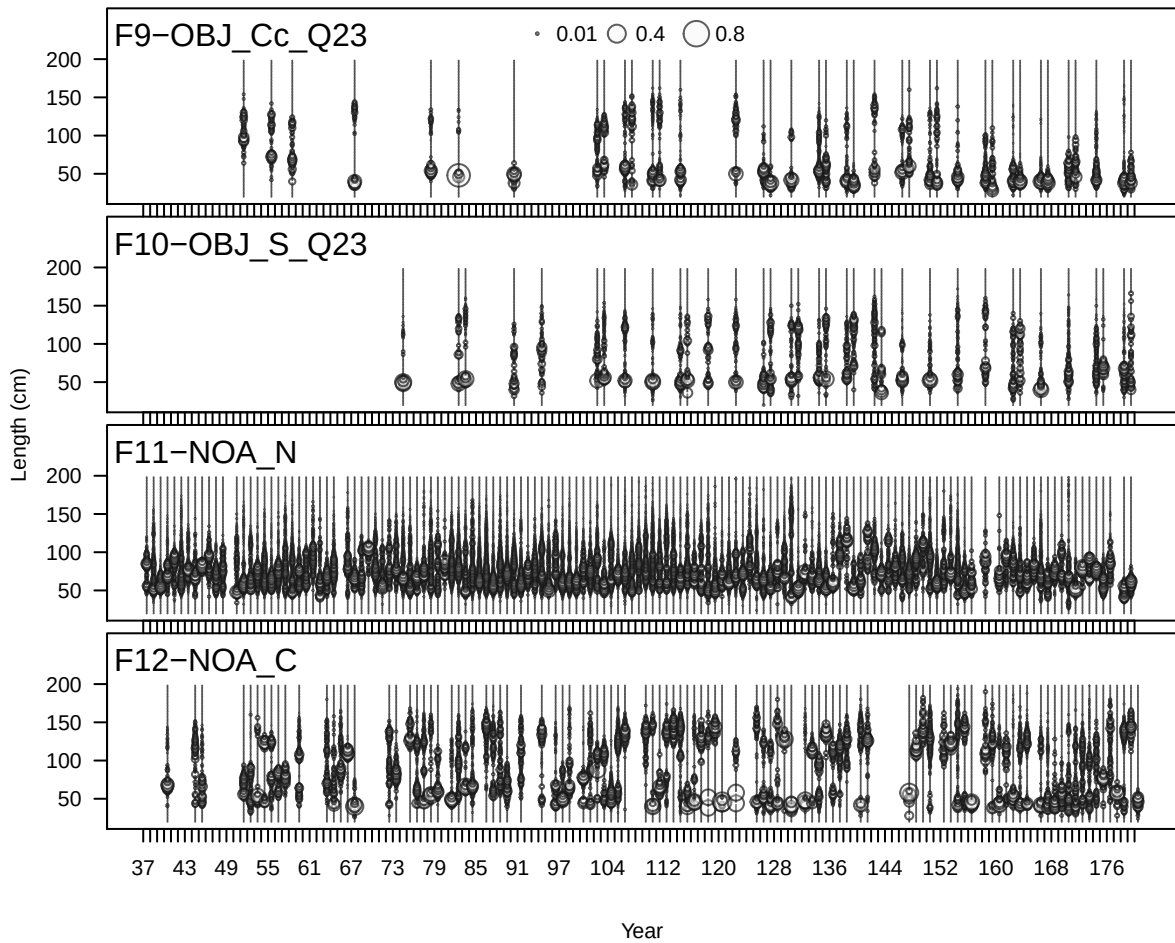
Proportion

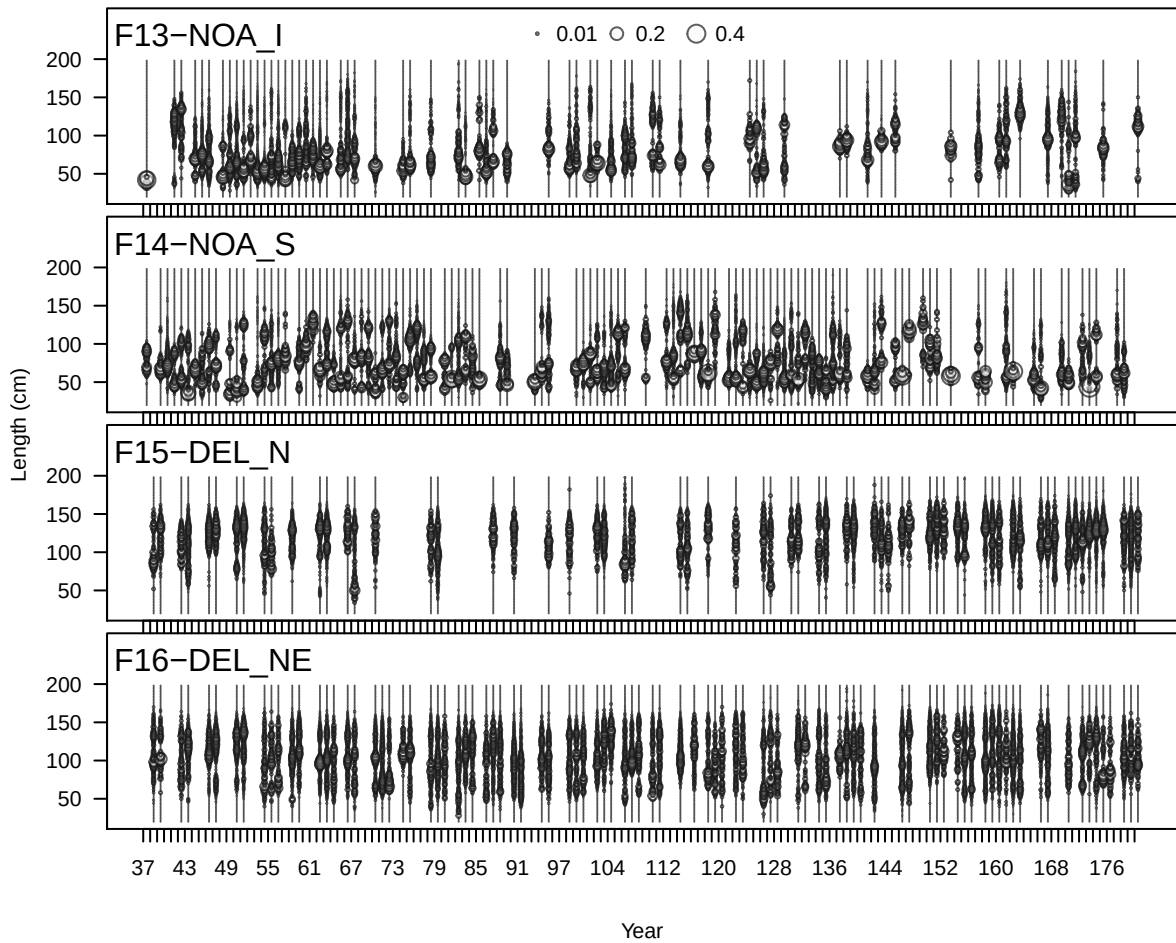


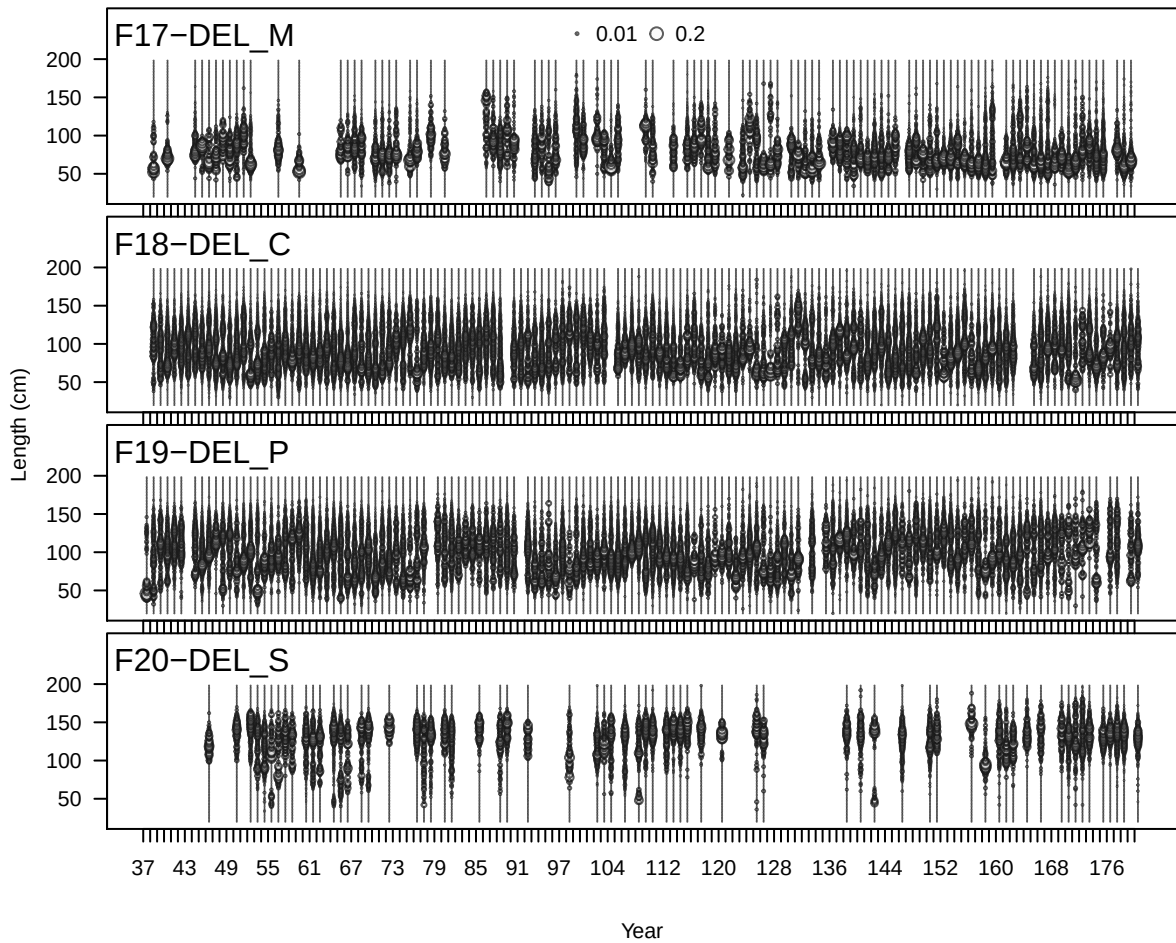


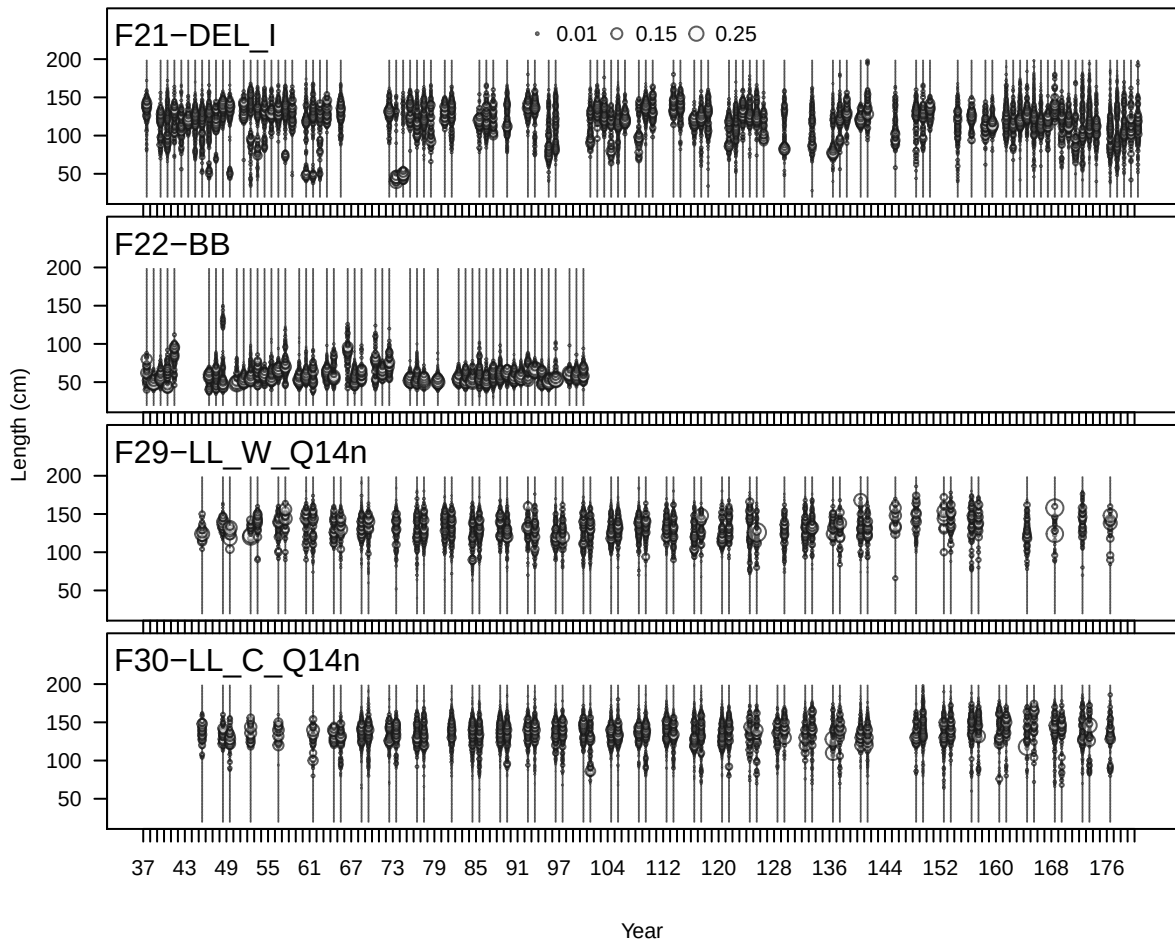


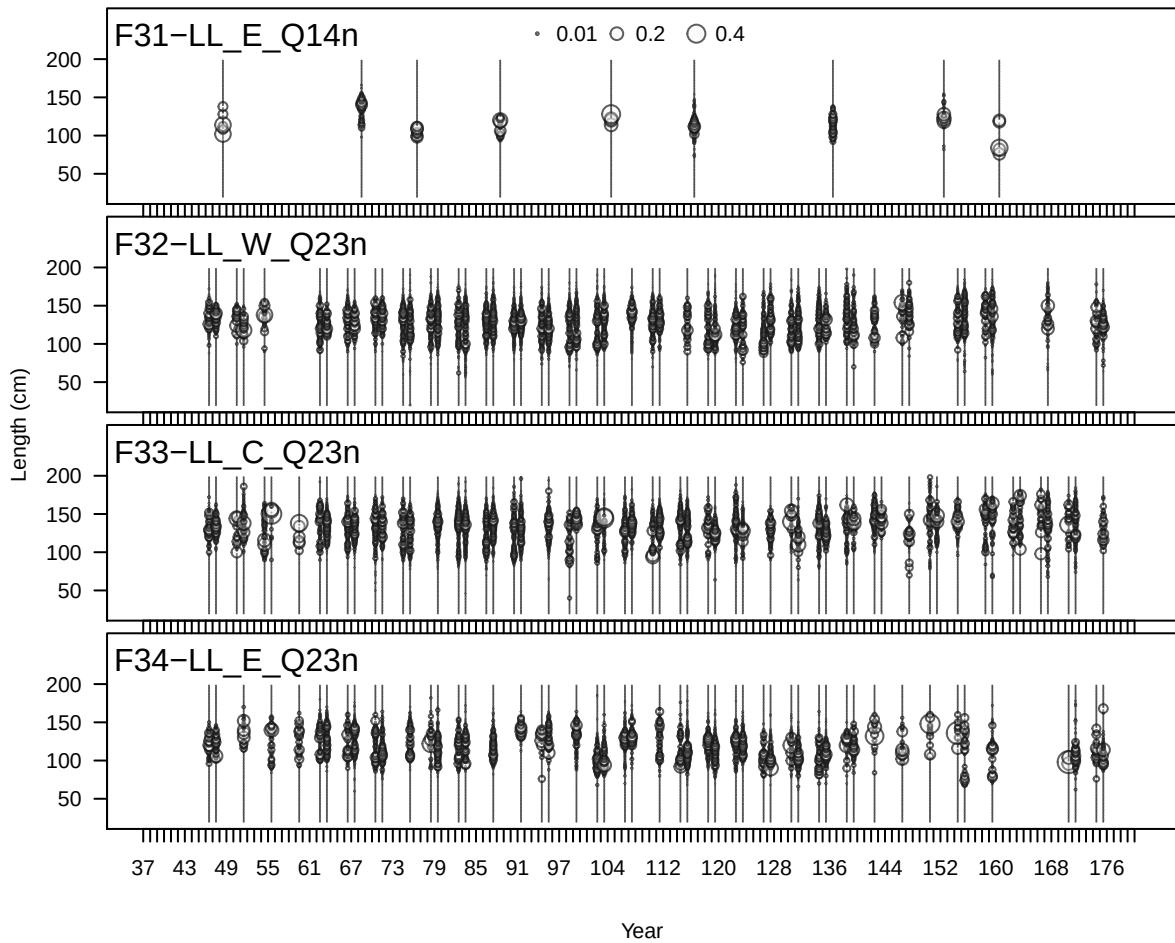


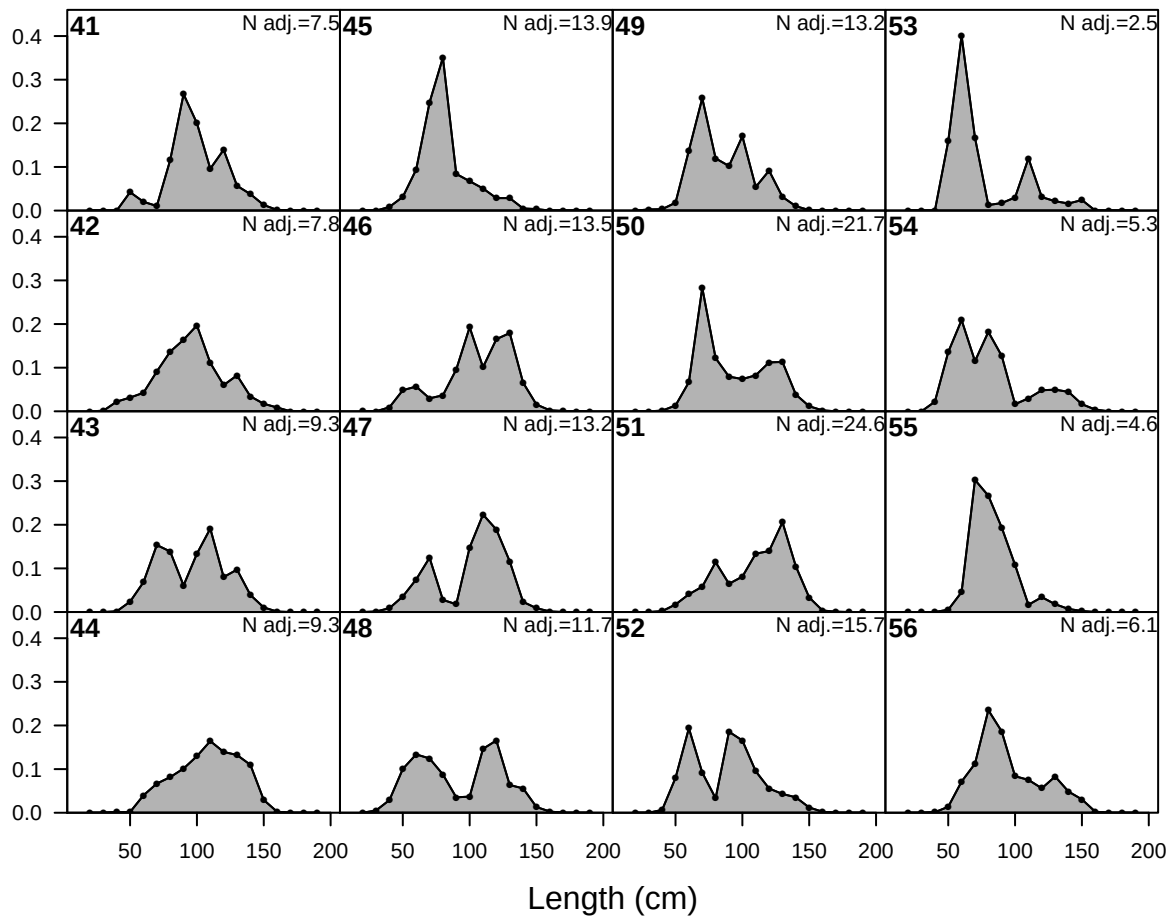




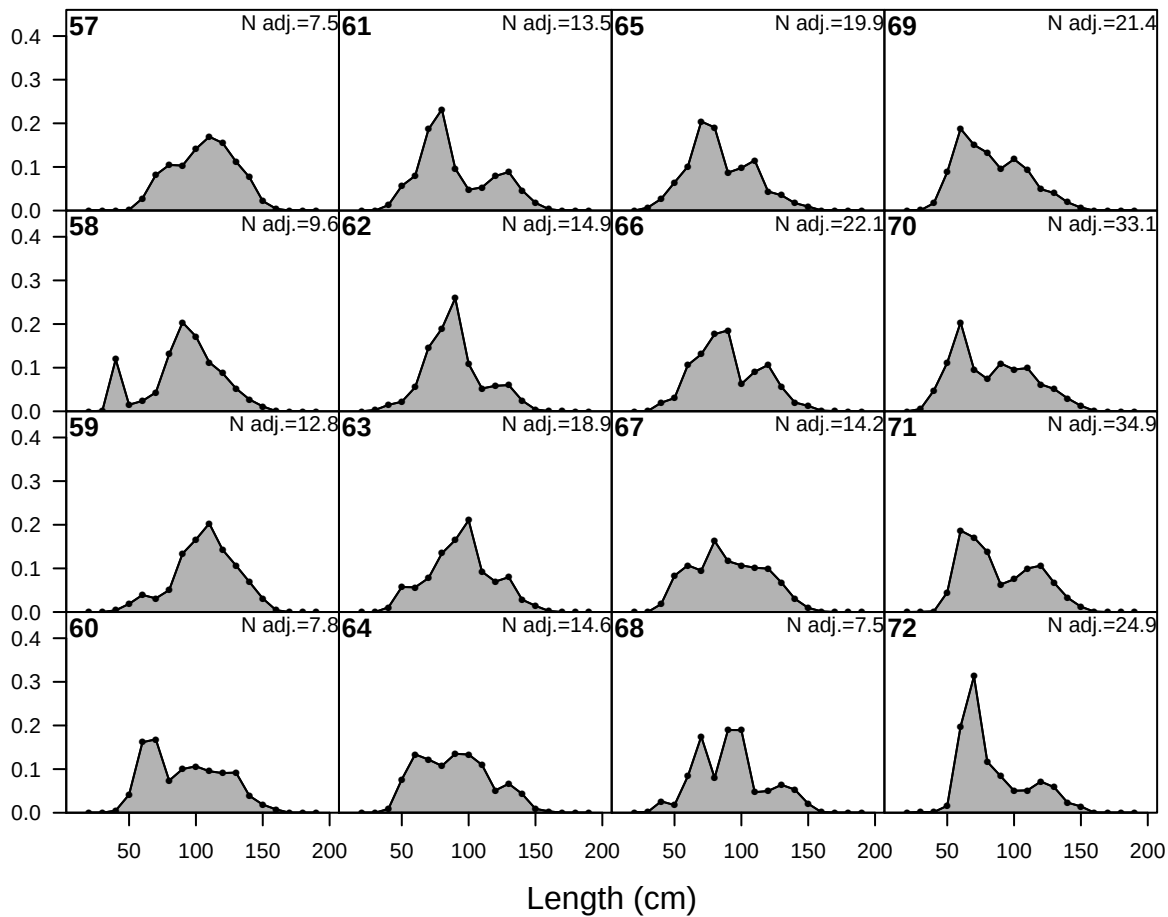


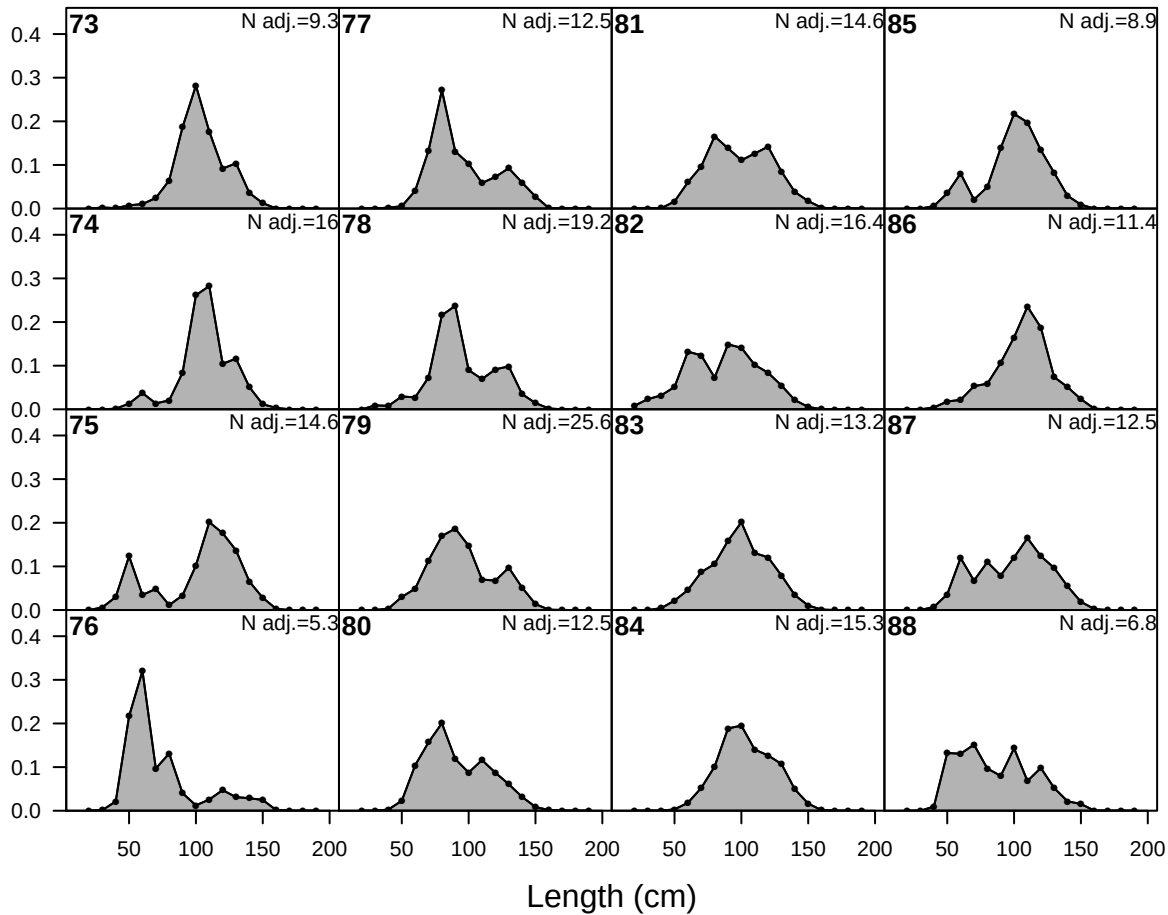


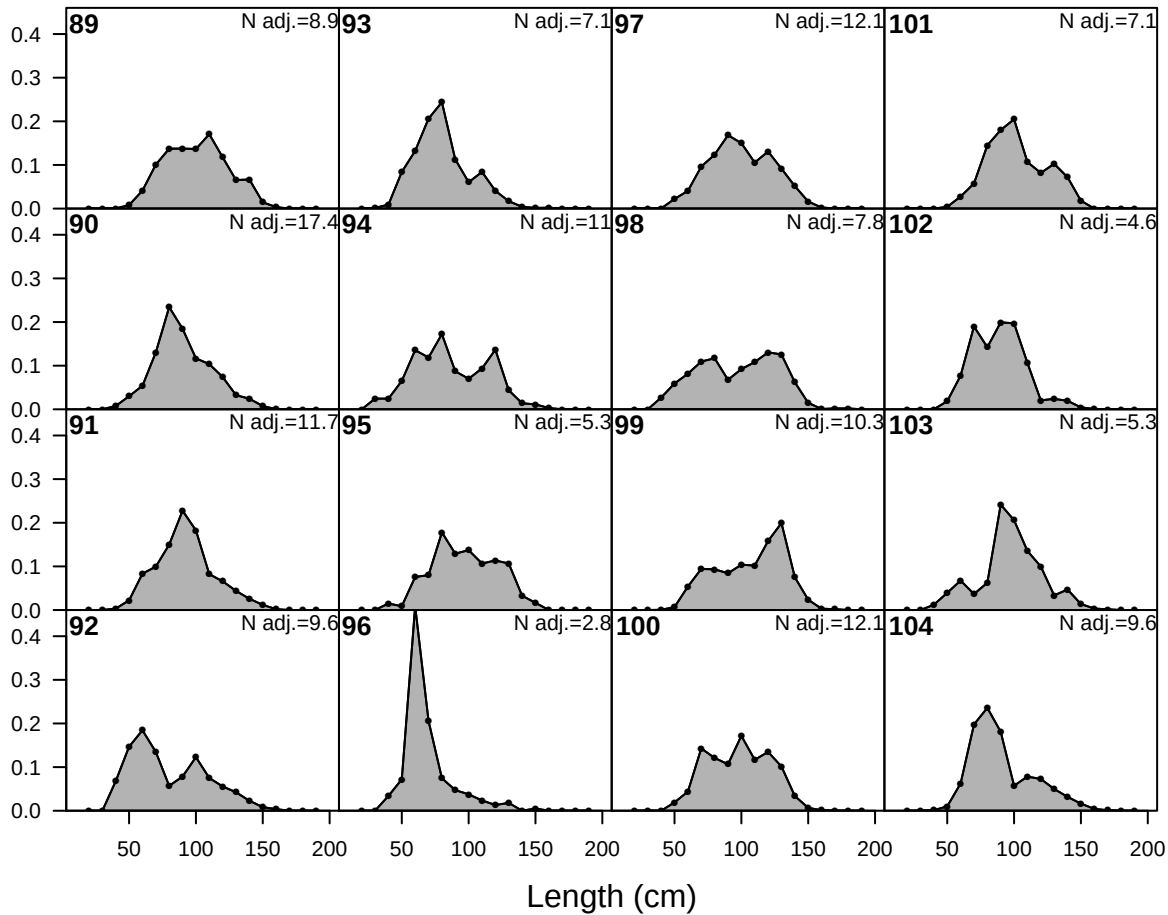


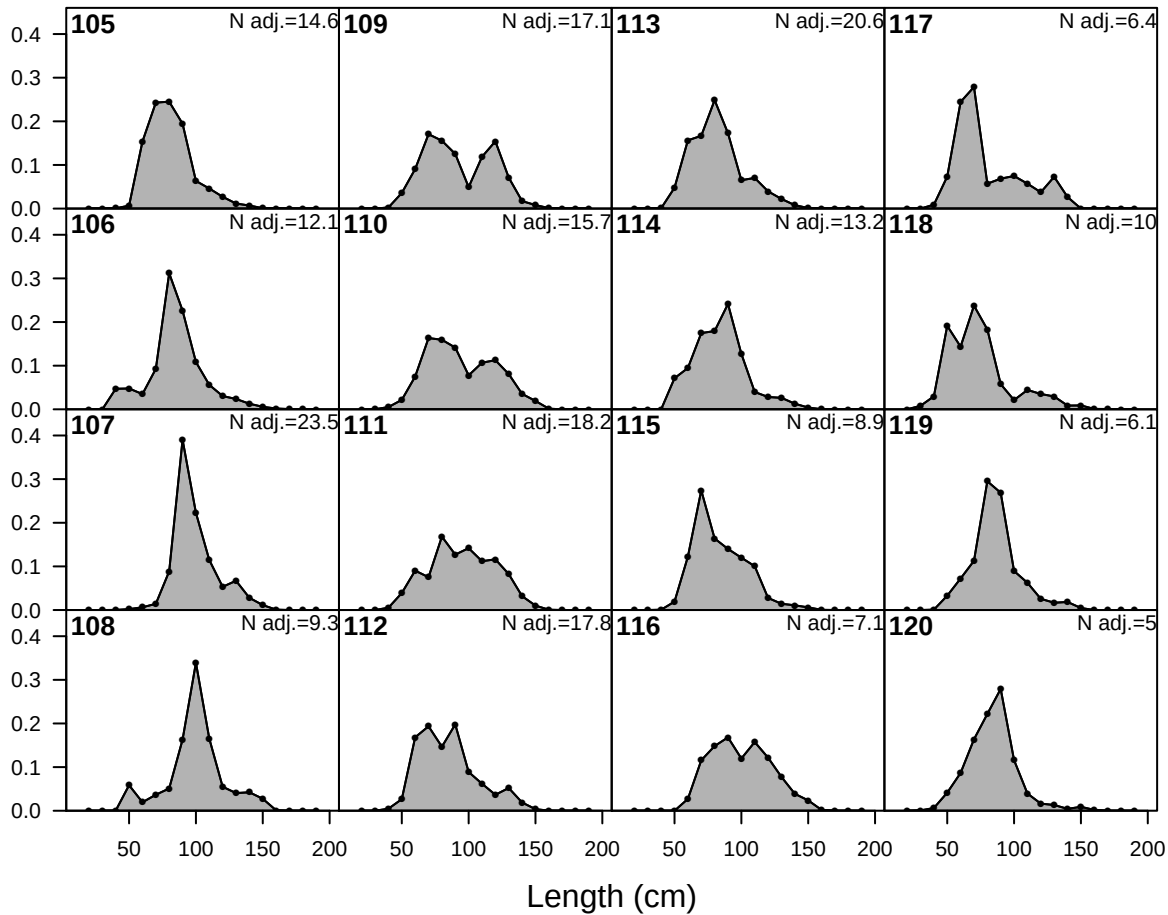


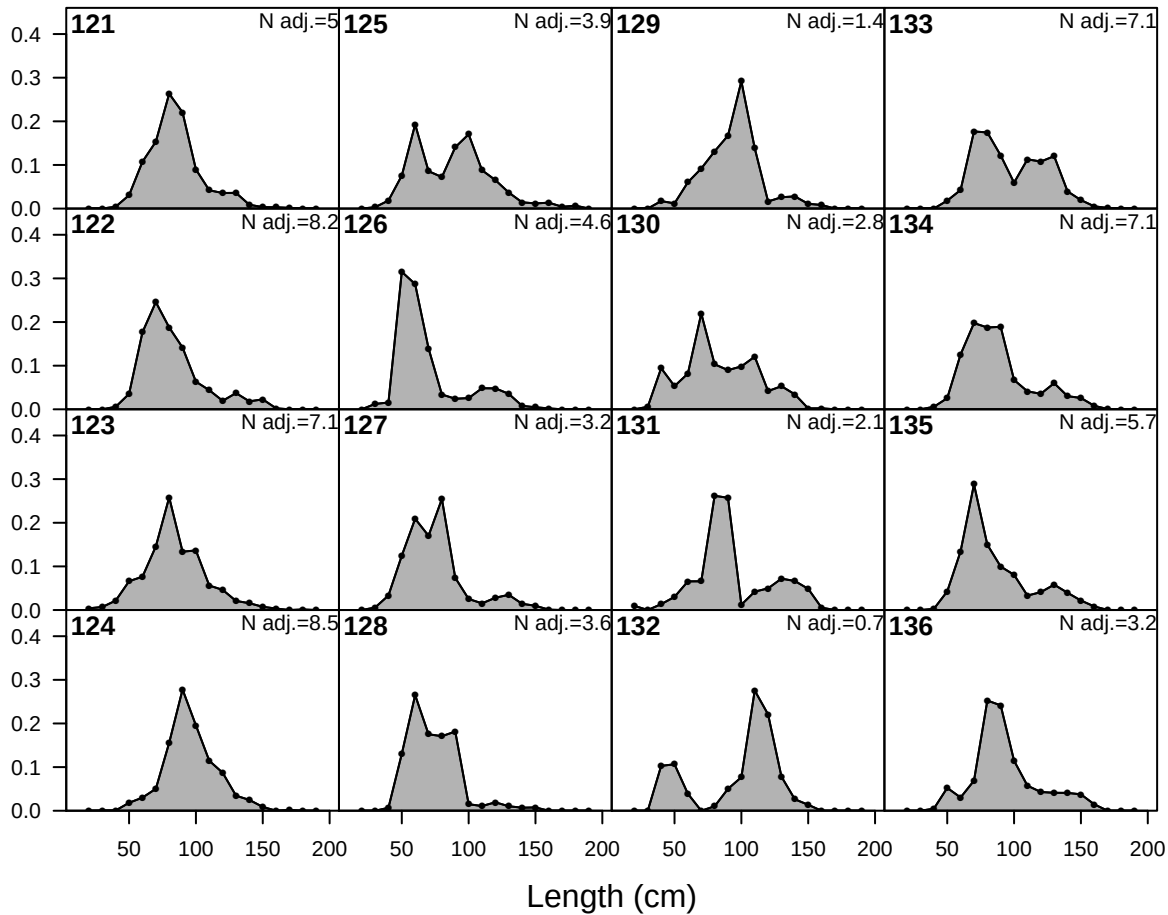


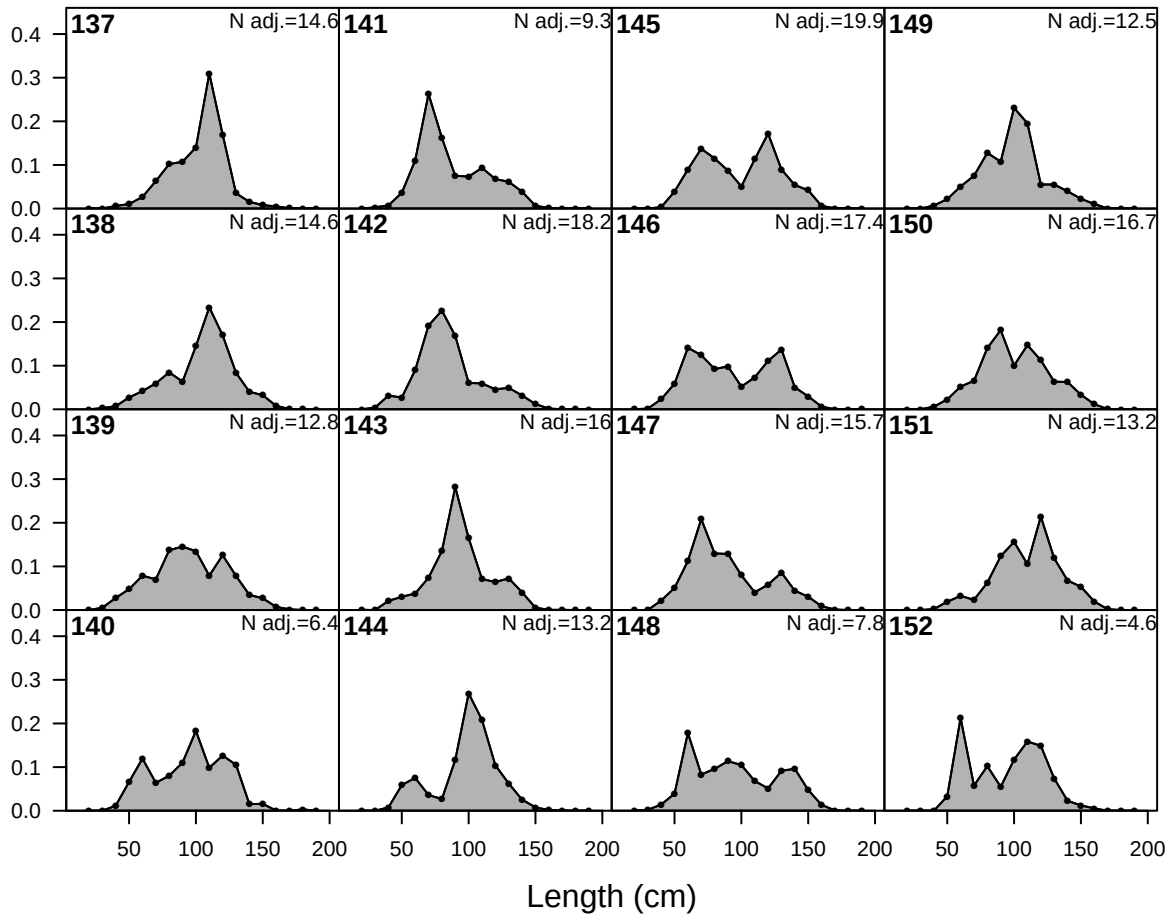


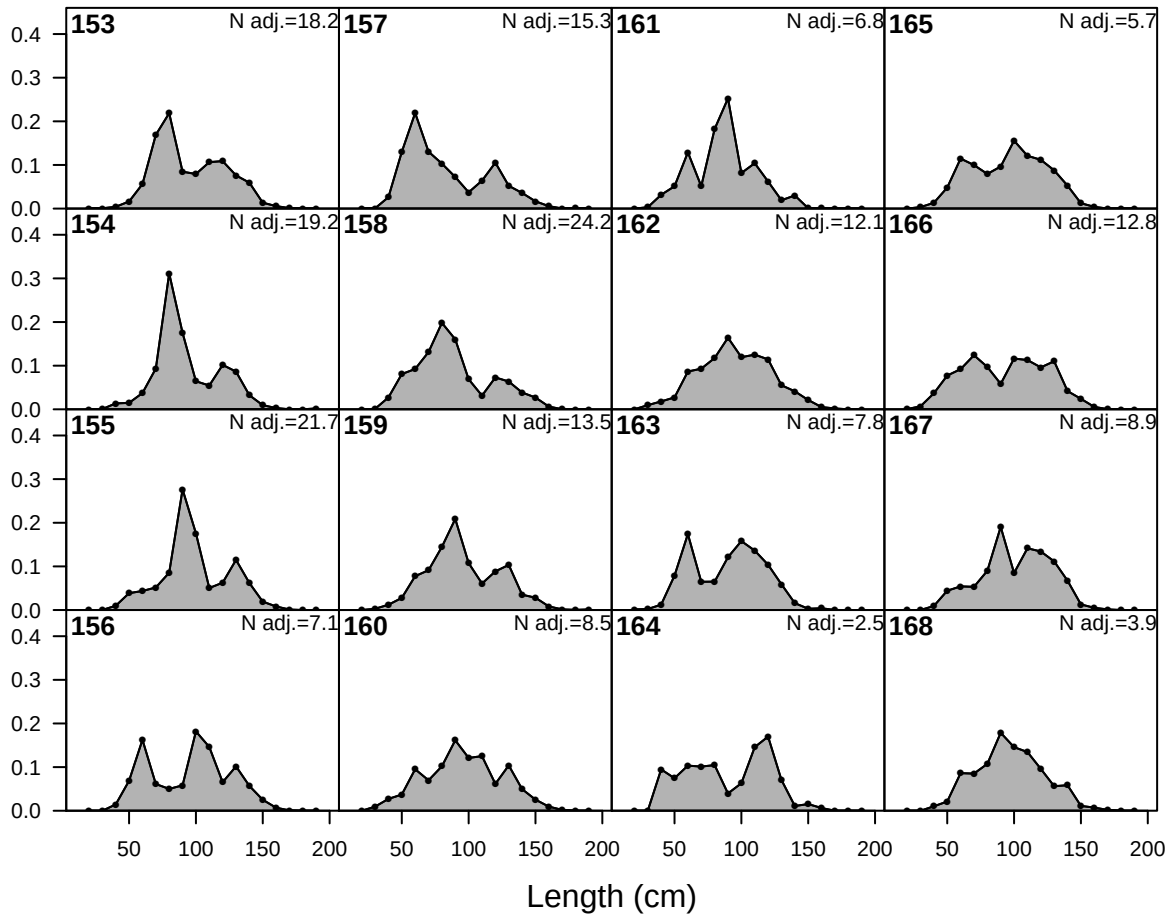


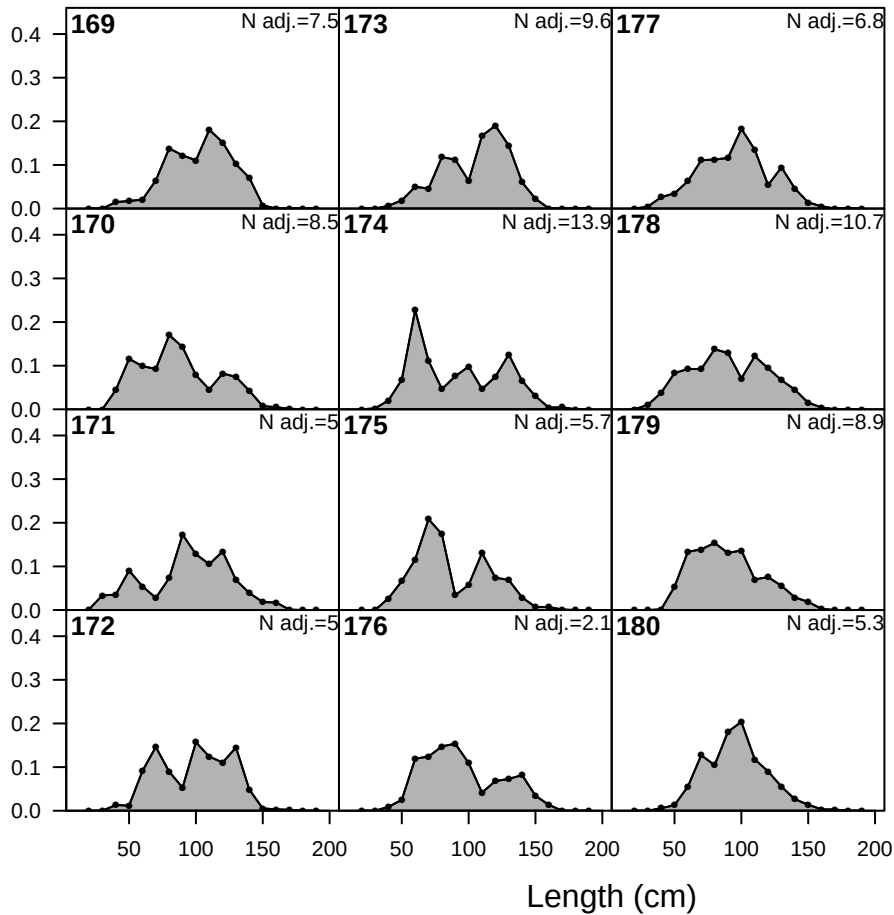




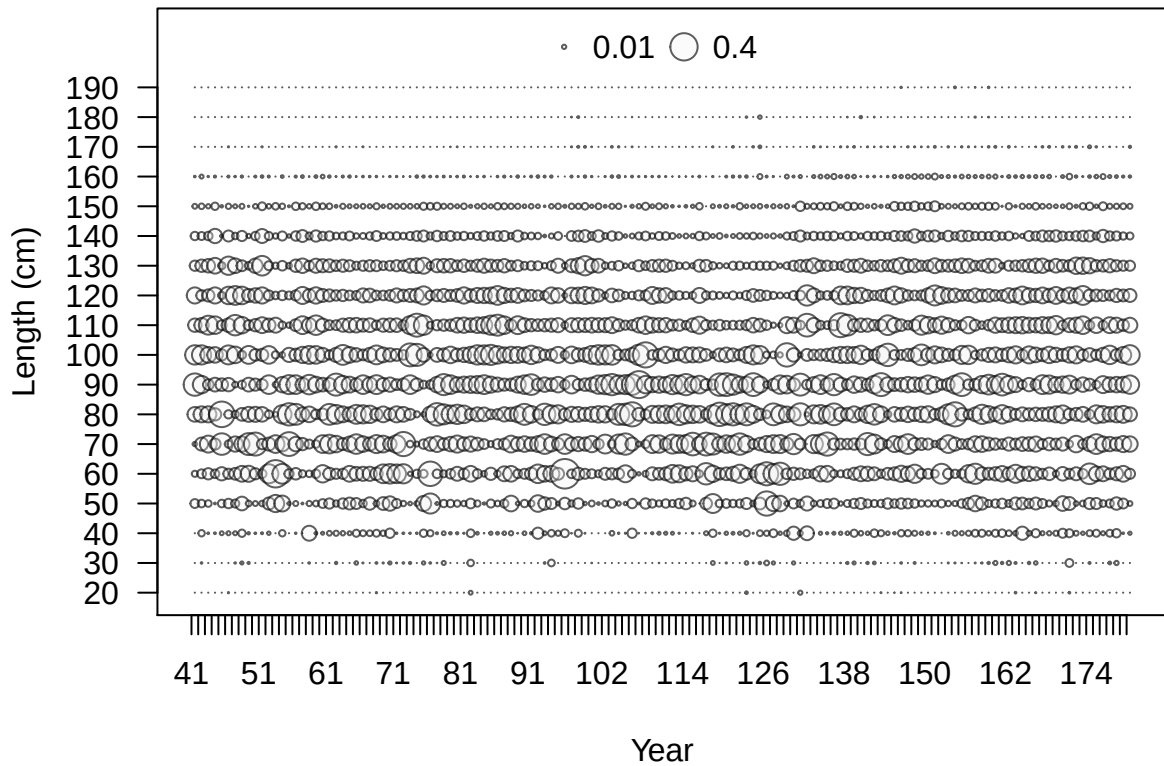




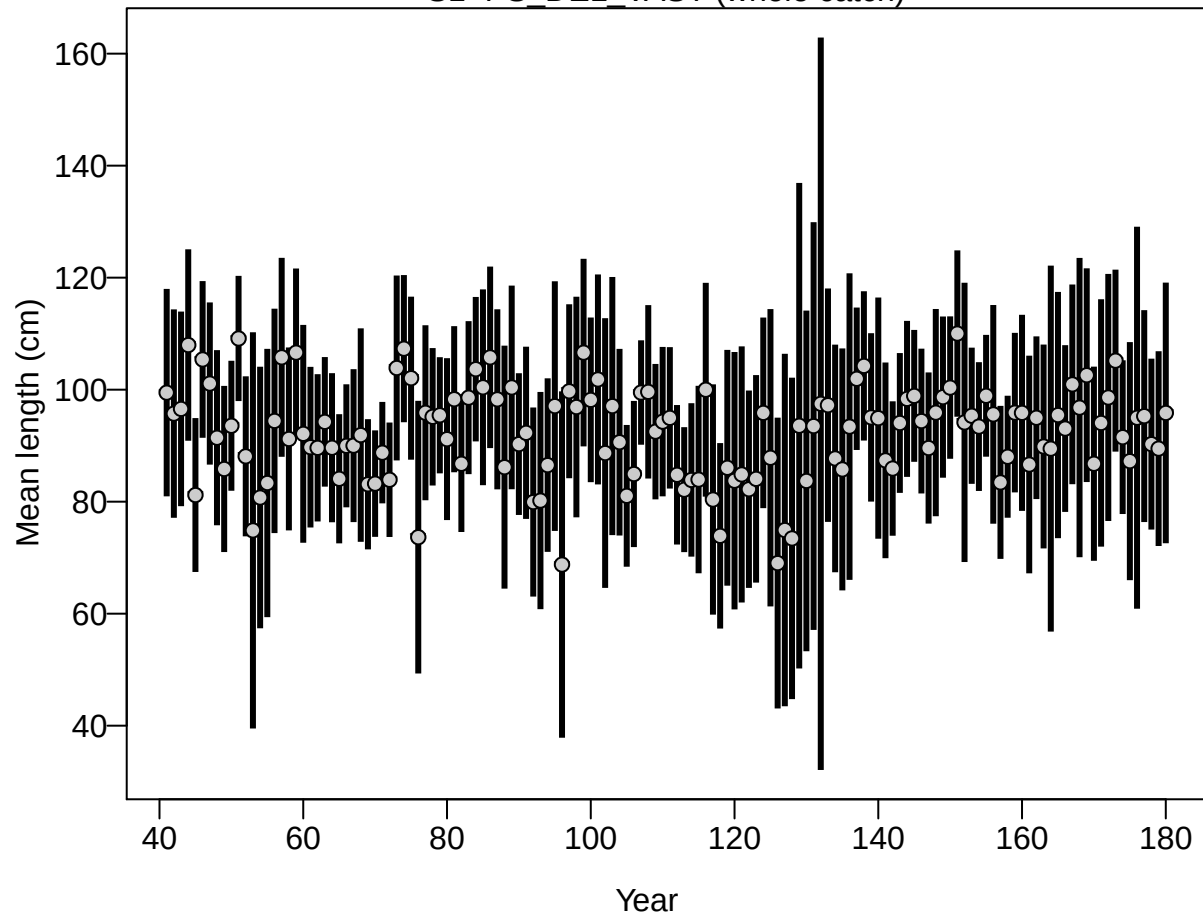






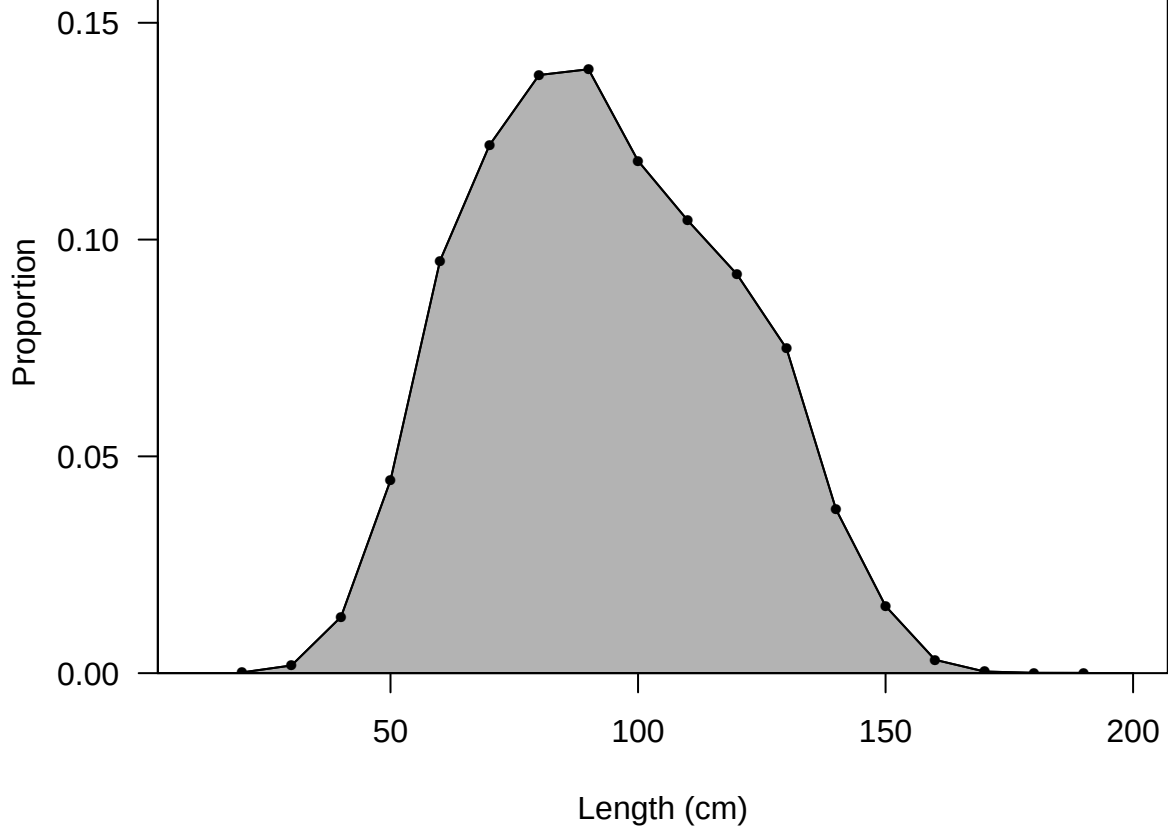


S1-PS\_DEL\_VAST (whole catch)

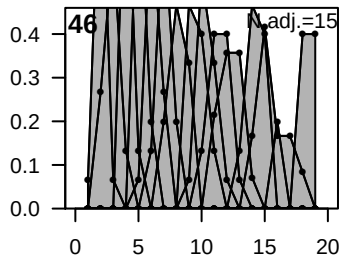


**S1-PS\_DEL\_VAST**

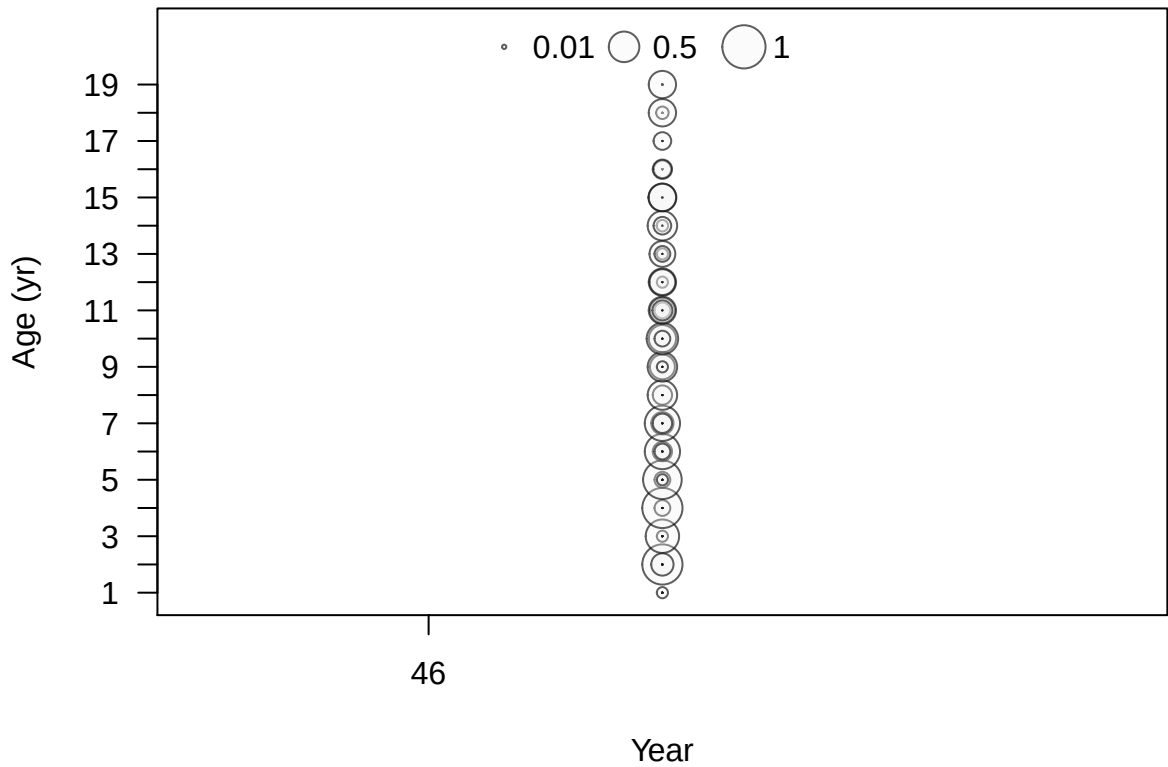
Sum of N adj.=1584.1



Proportion

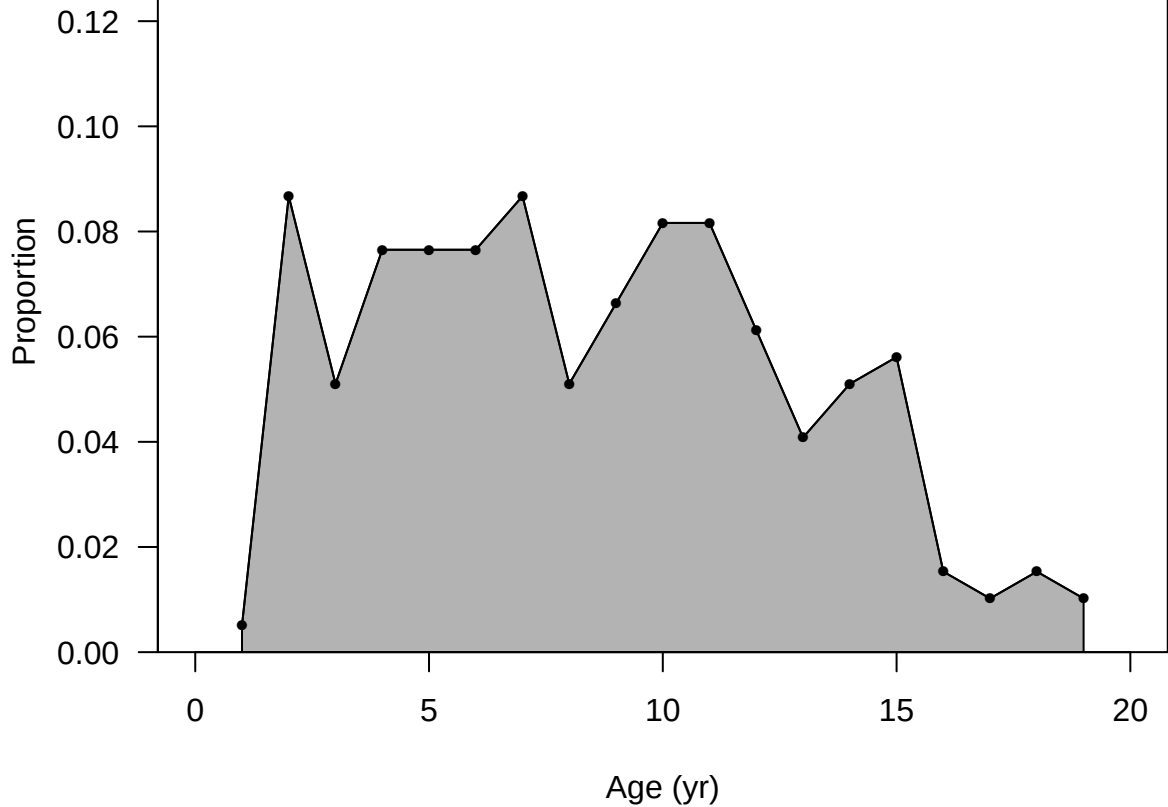


Age (yr)



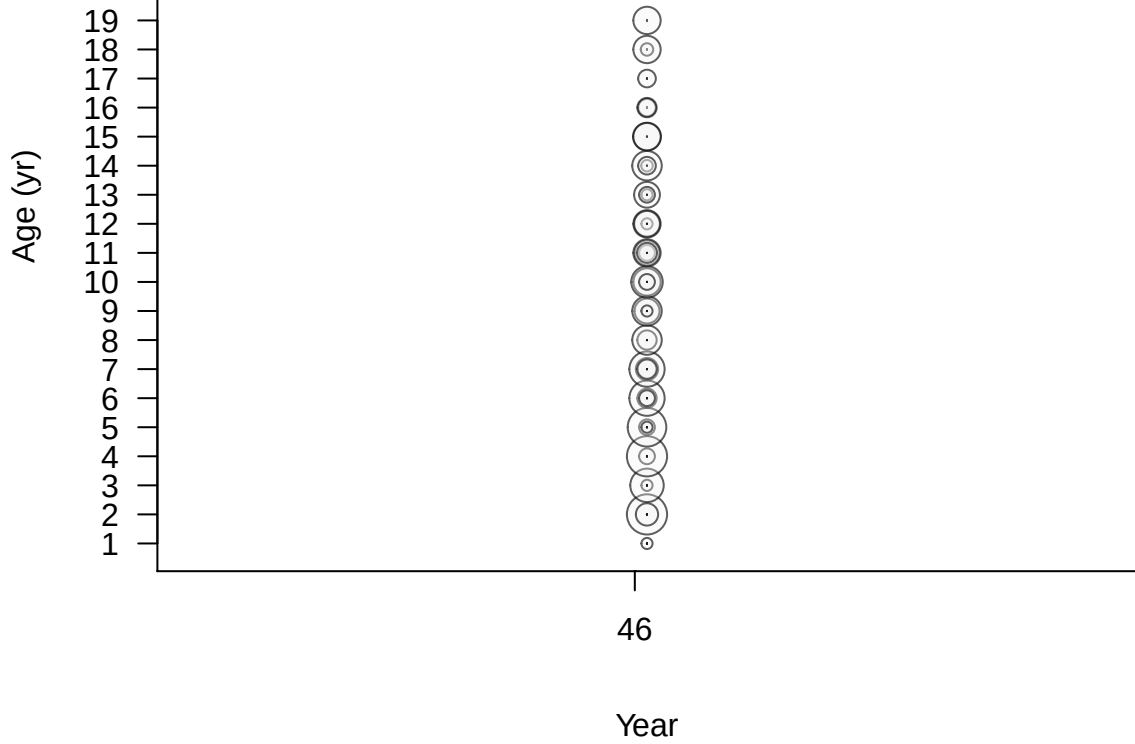
**F18-DEL\_C**

Sum of N adj.=196

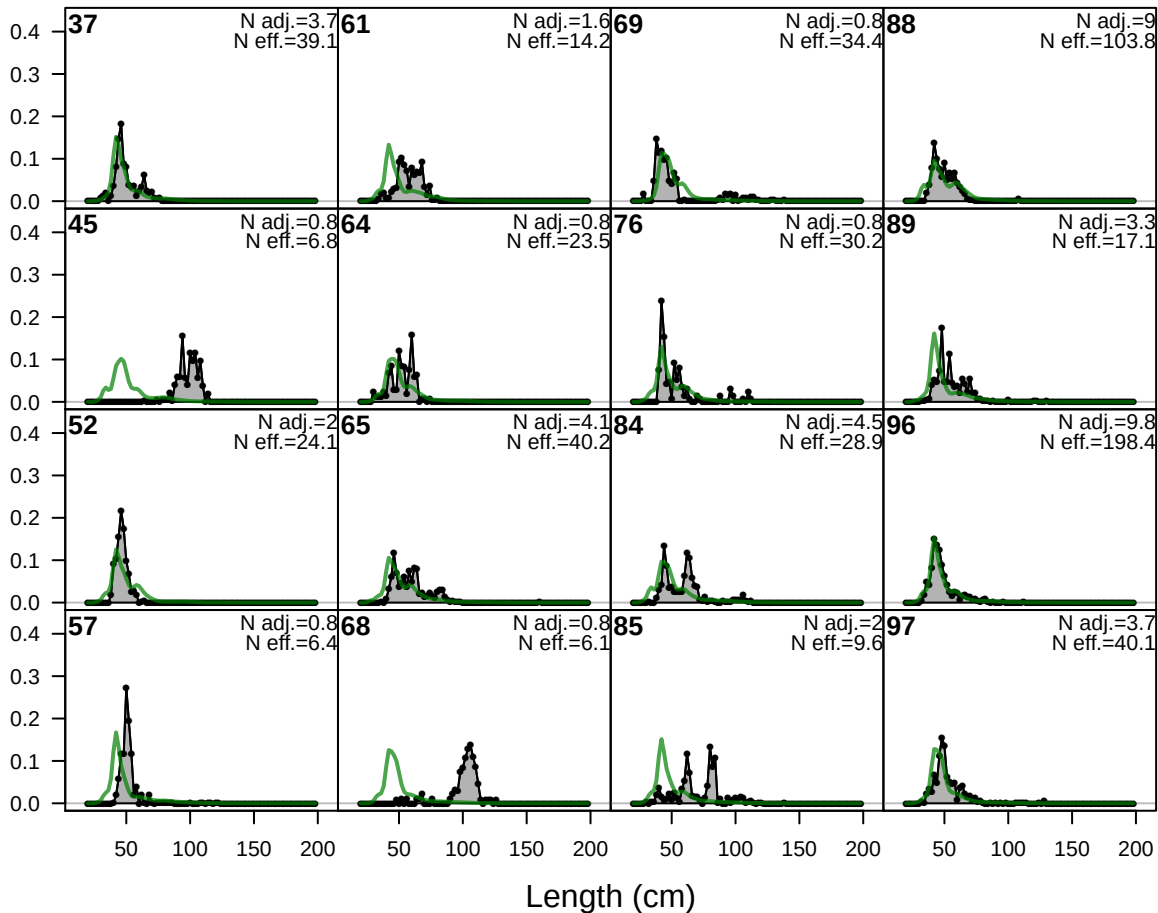


F18-DEL\_C

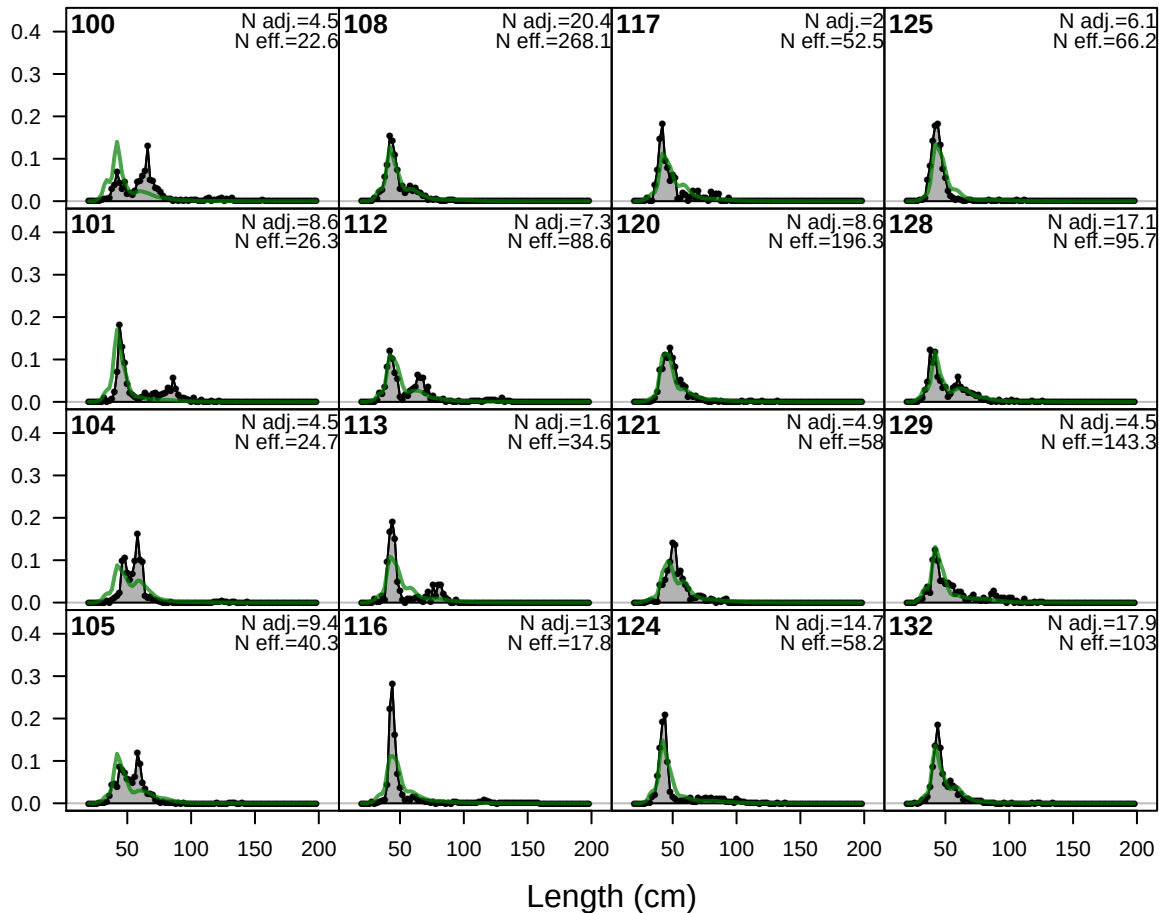
◦ 0.01 ○ 0.5 ○ 1

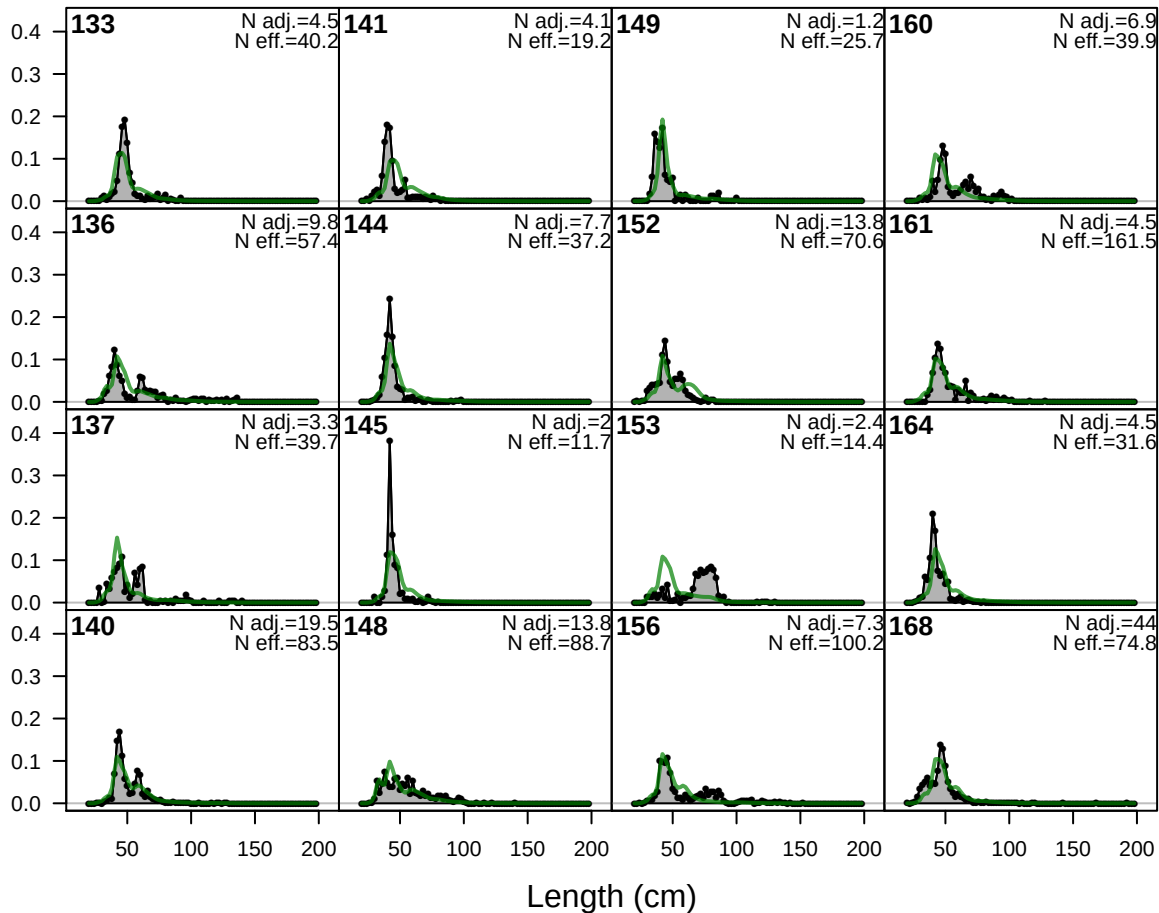


Proportion

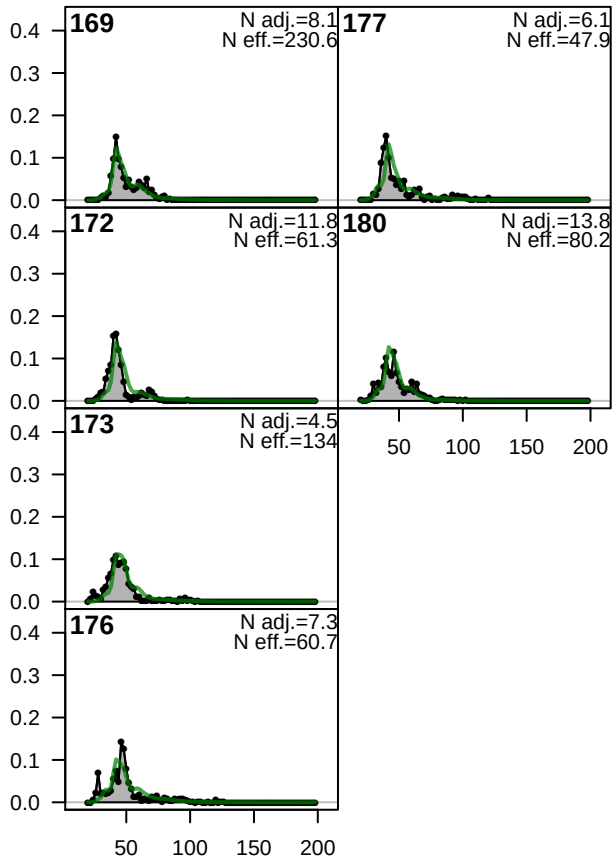


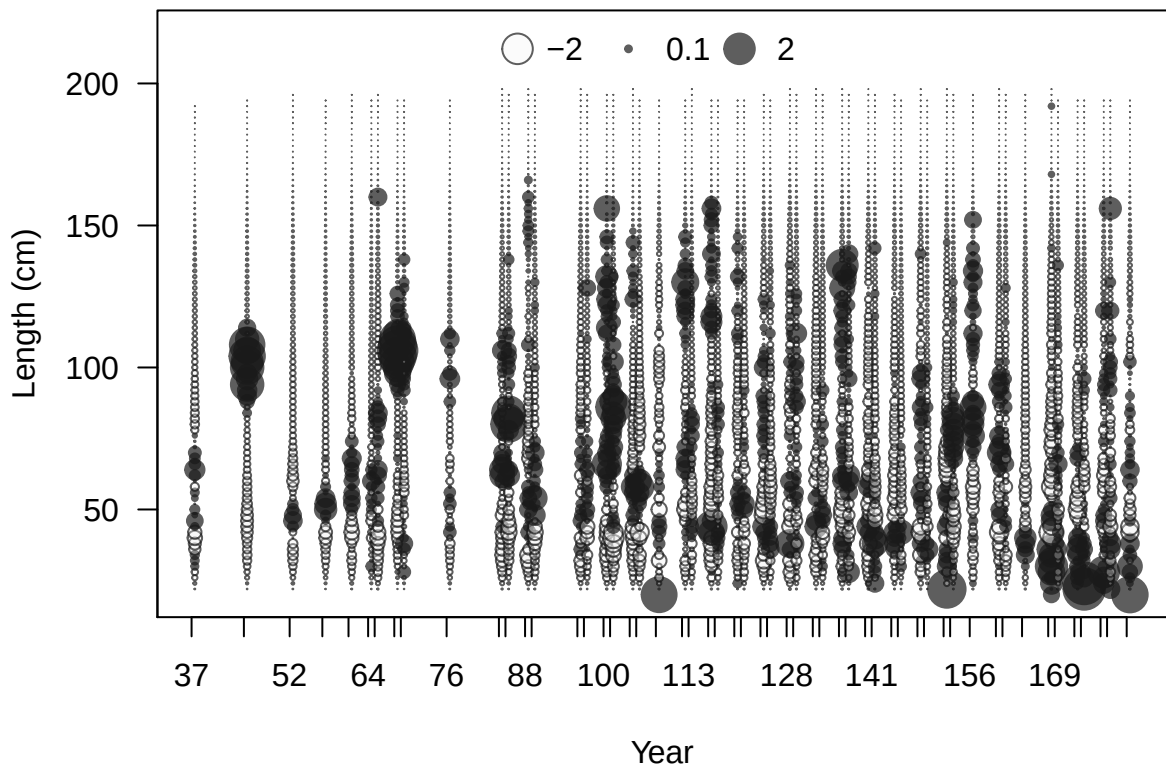




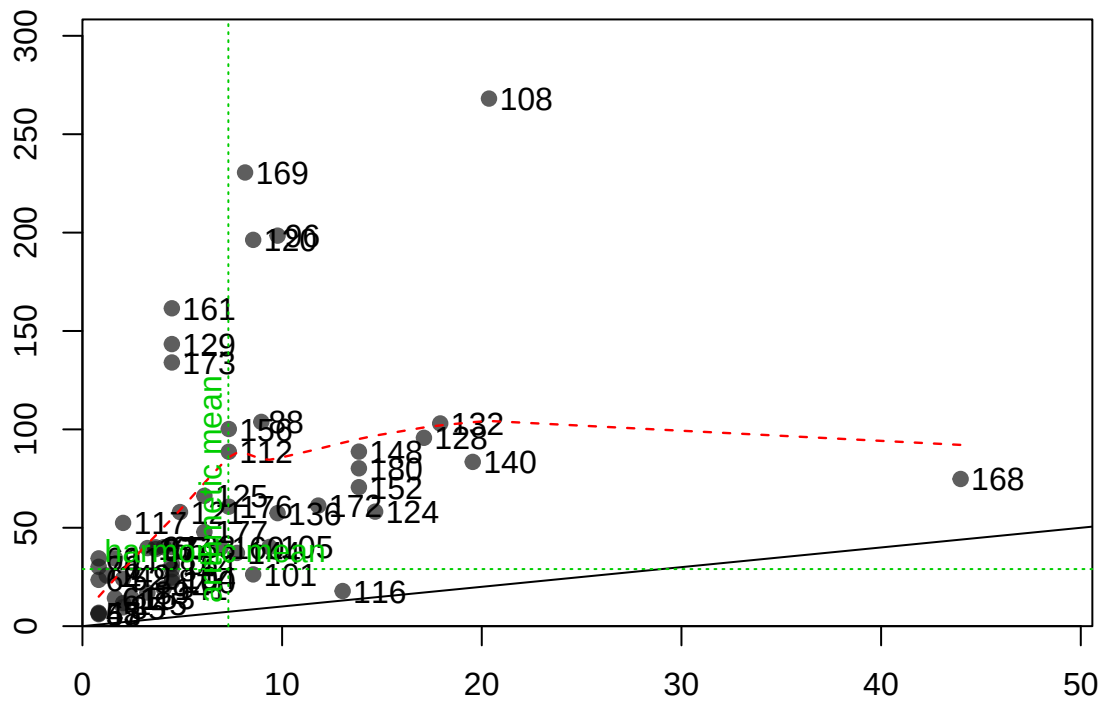


Proportion



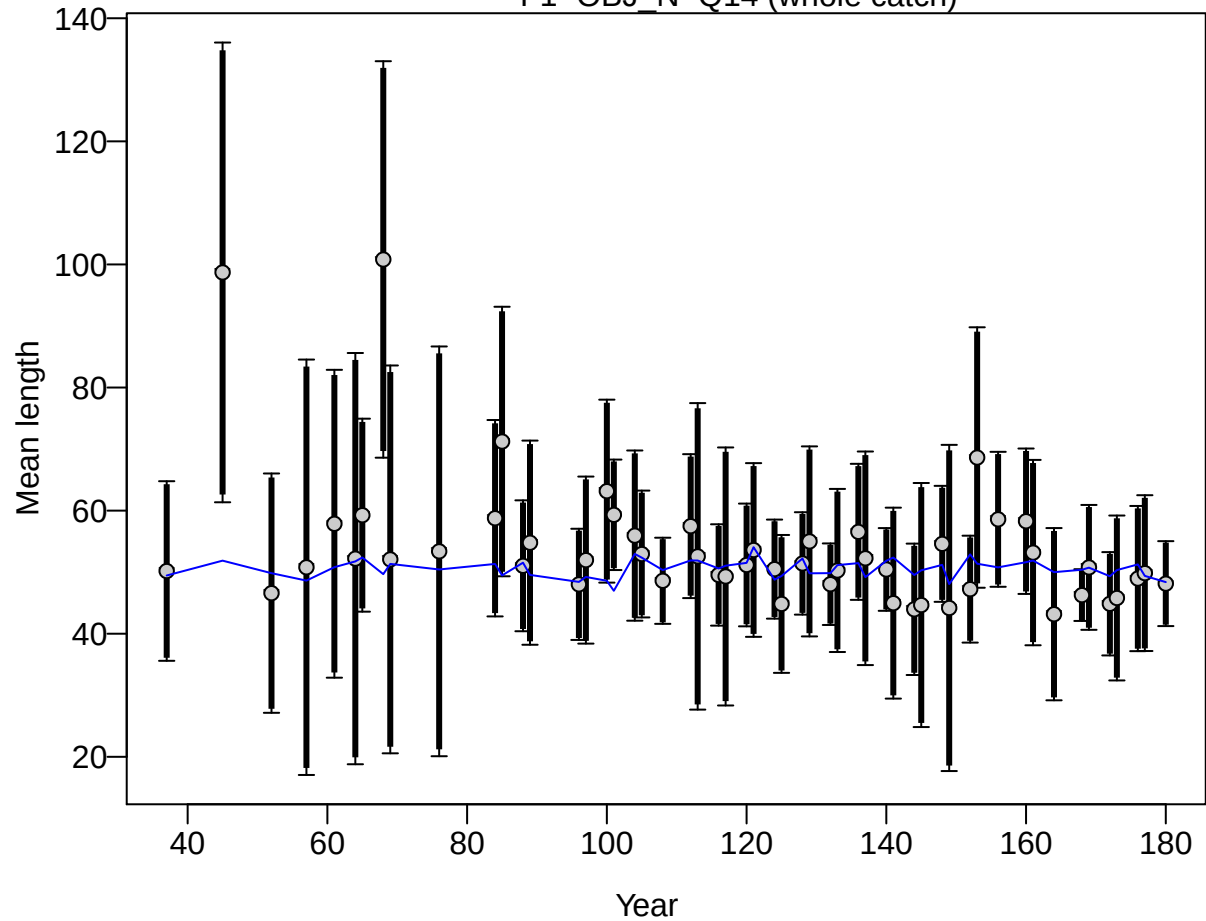


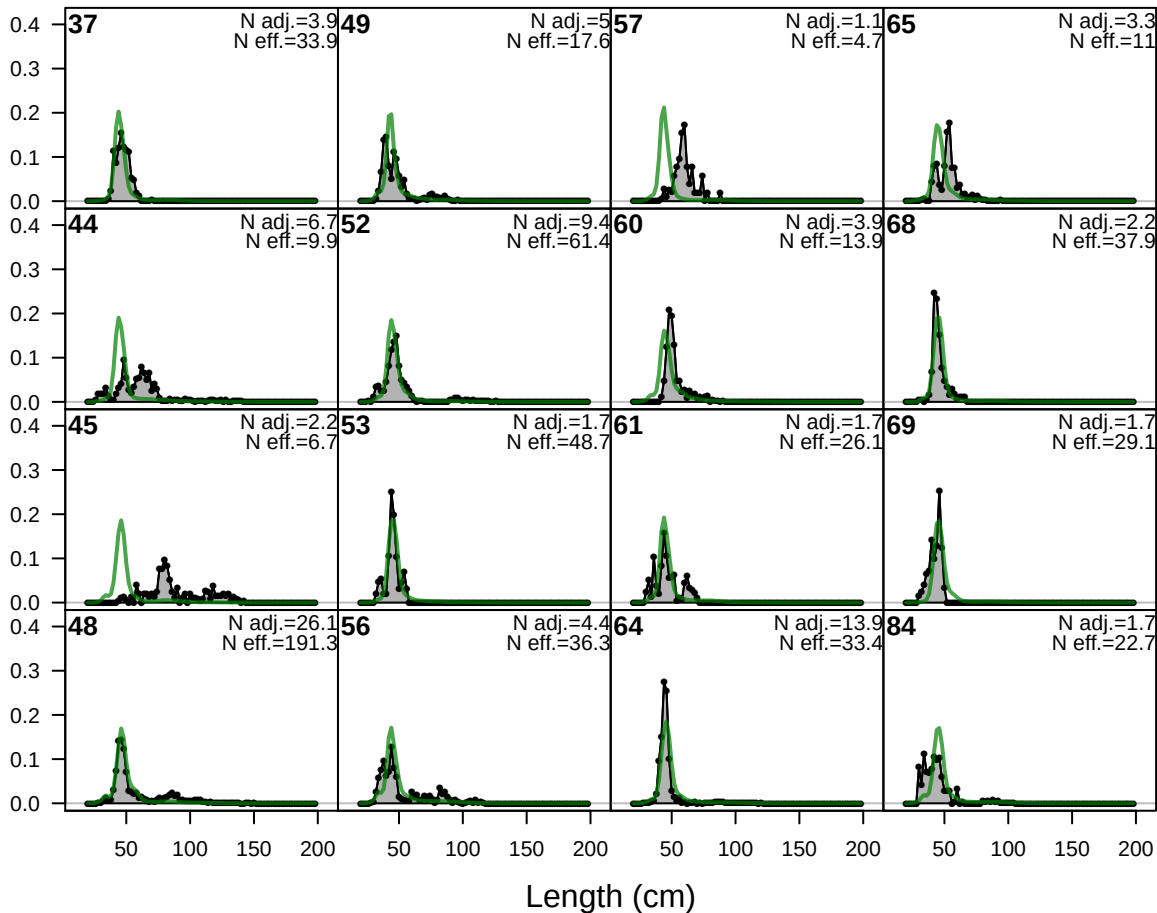
Effective sample size

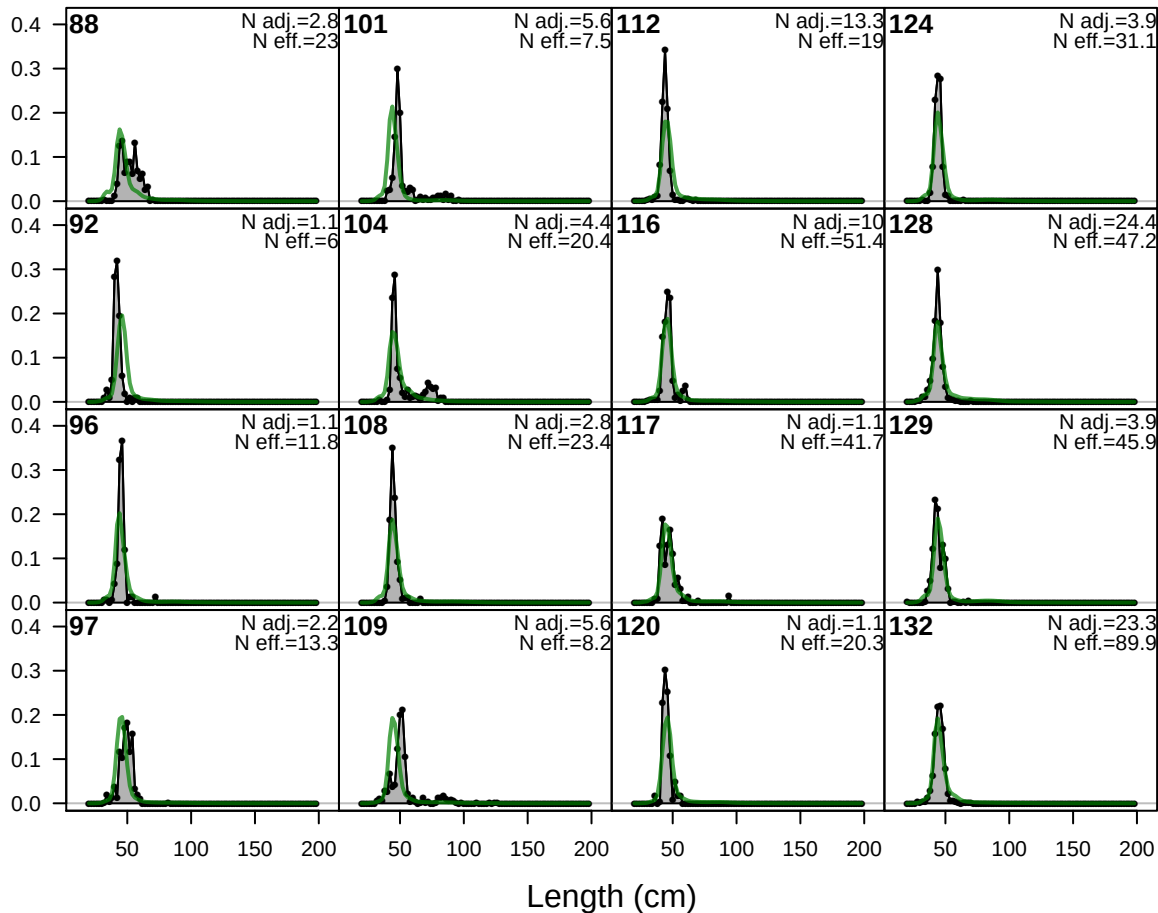


Observed sample size

F1-OBJ\_N-Q14 (whole catch)

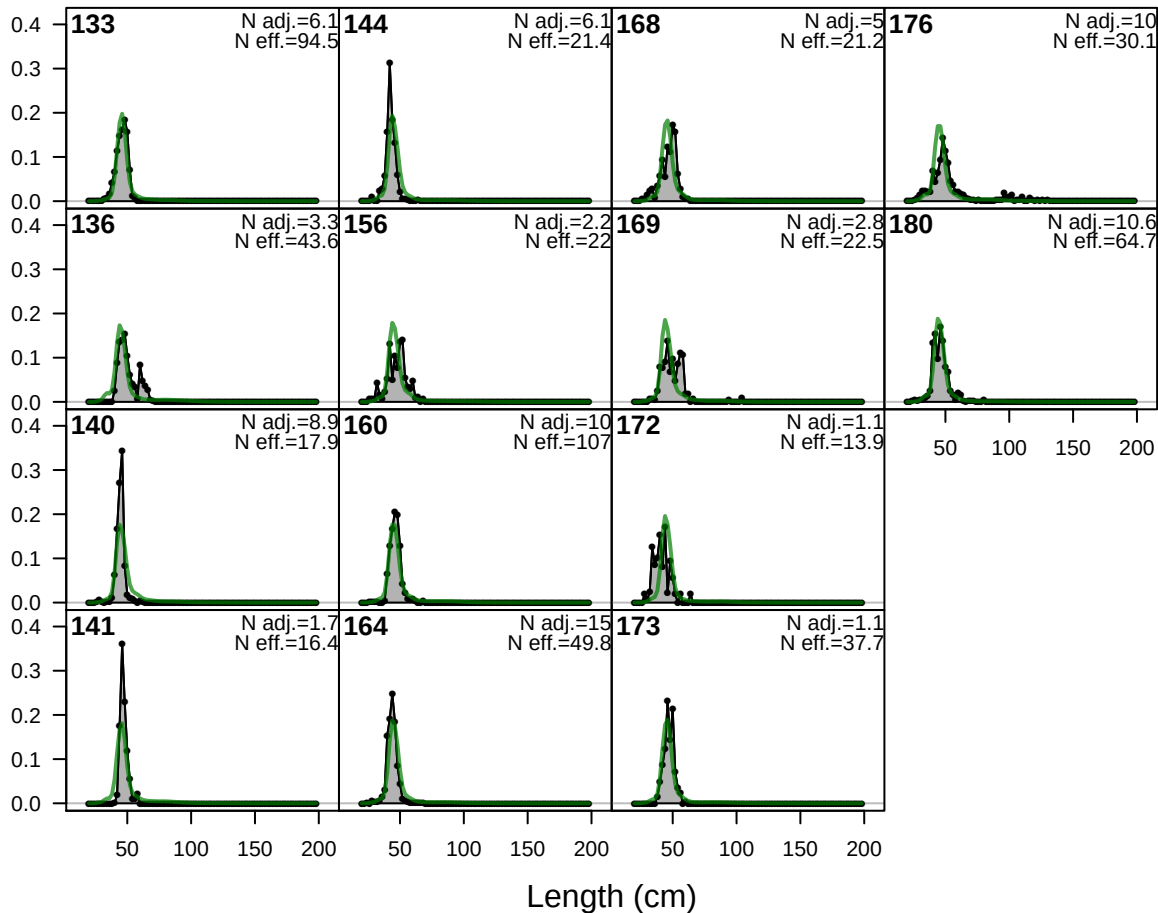


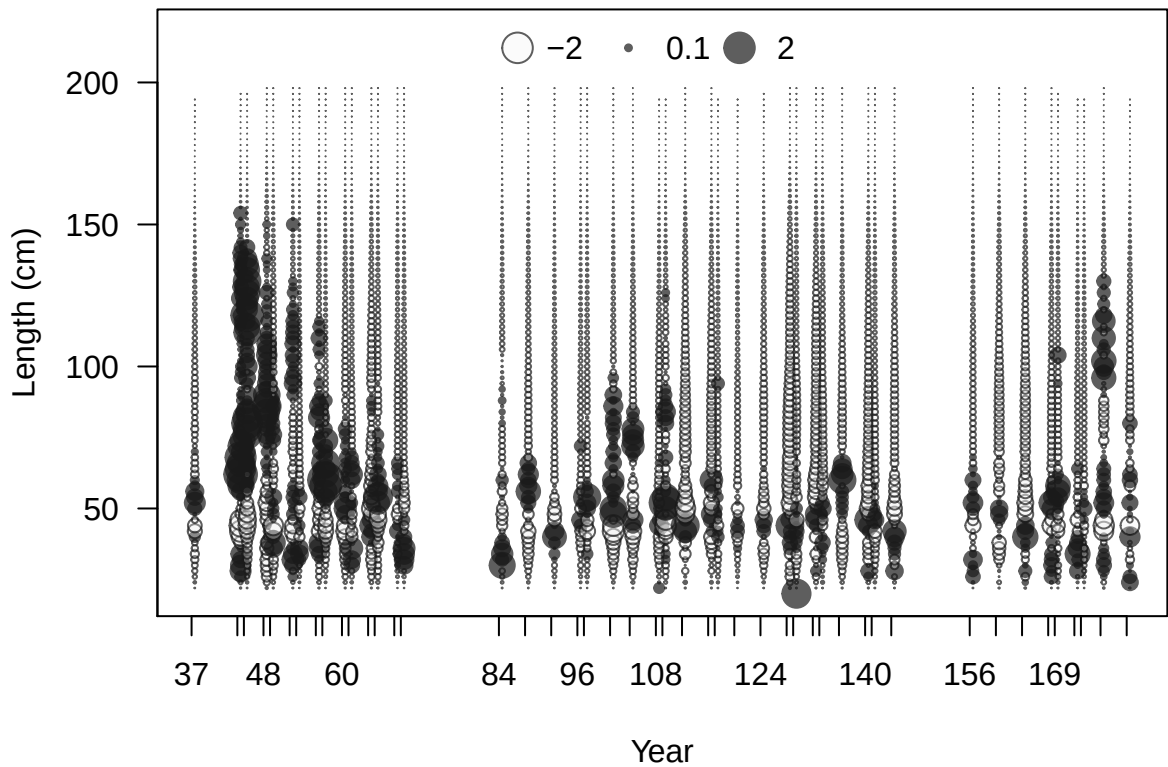




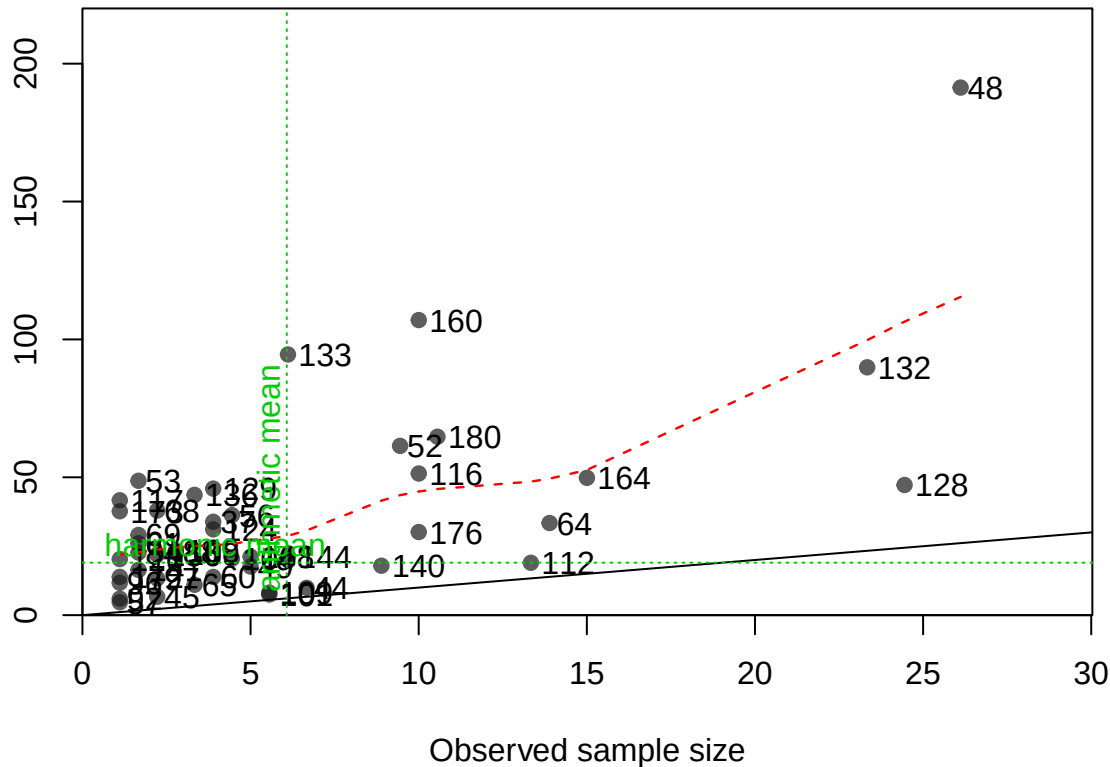


Proportion

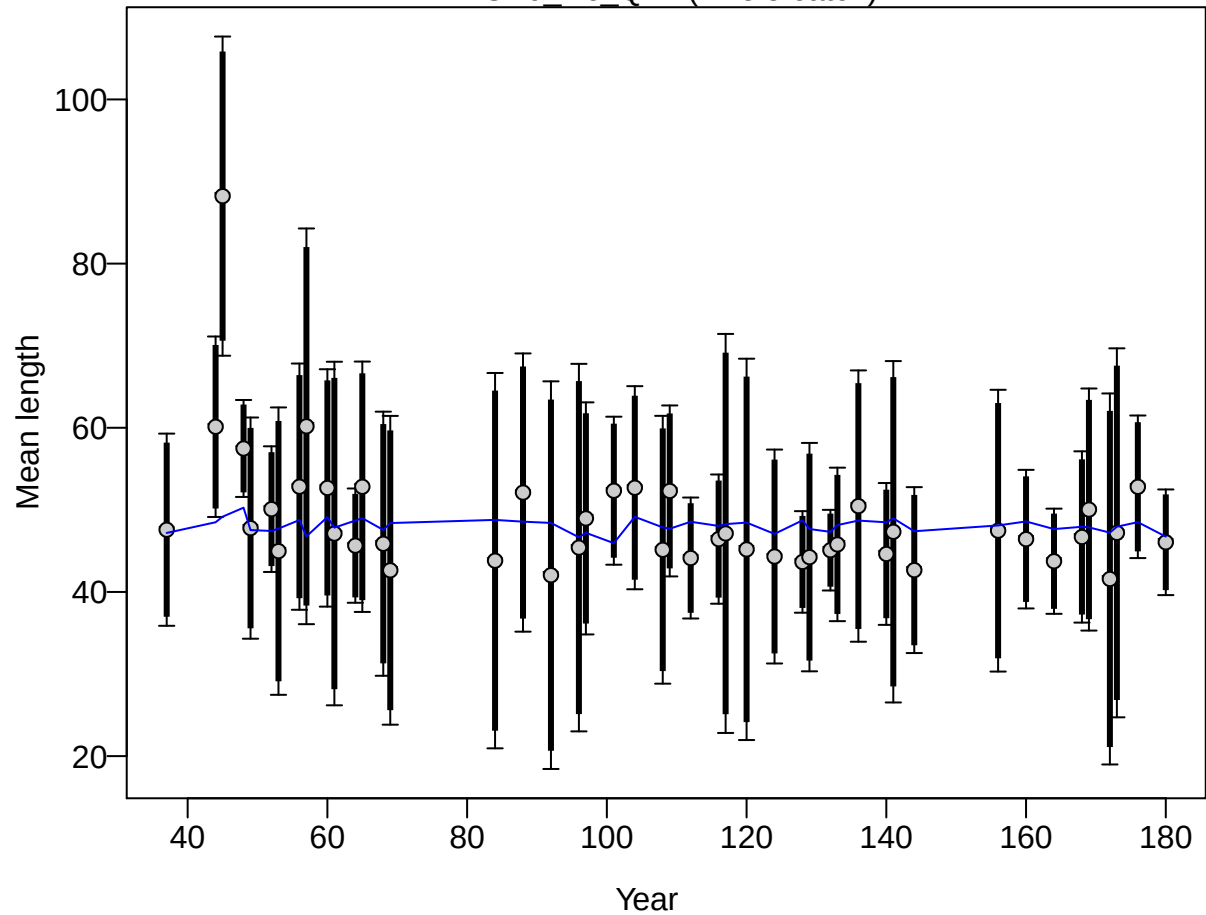


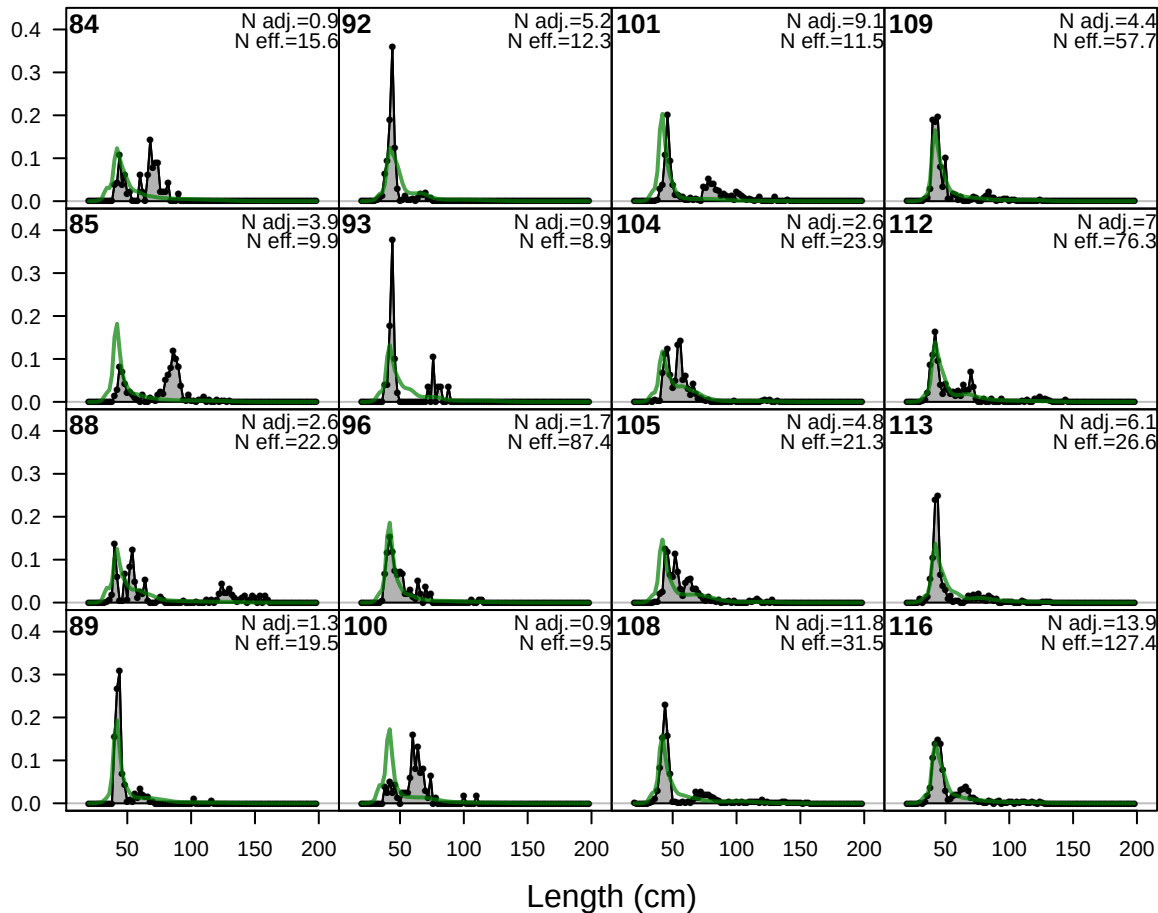


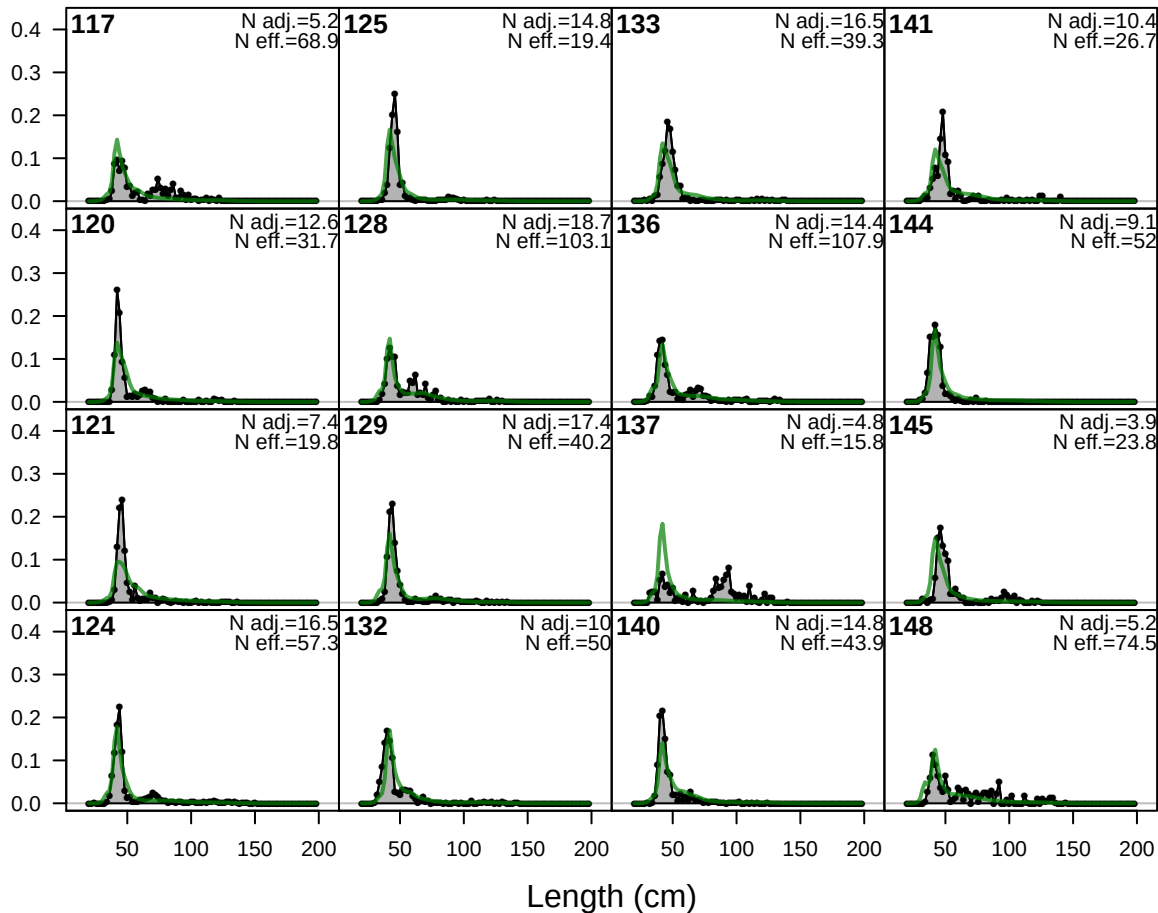
Effective sample size



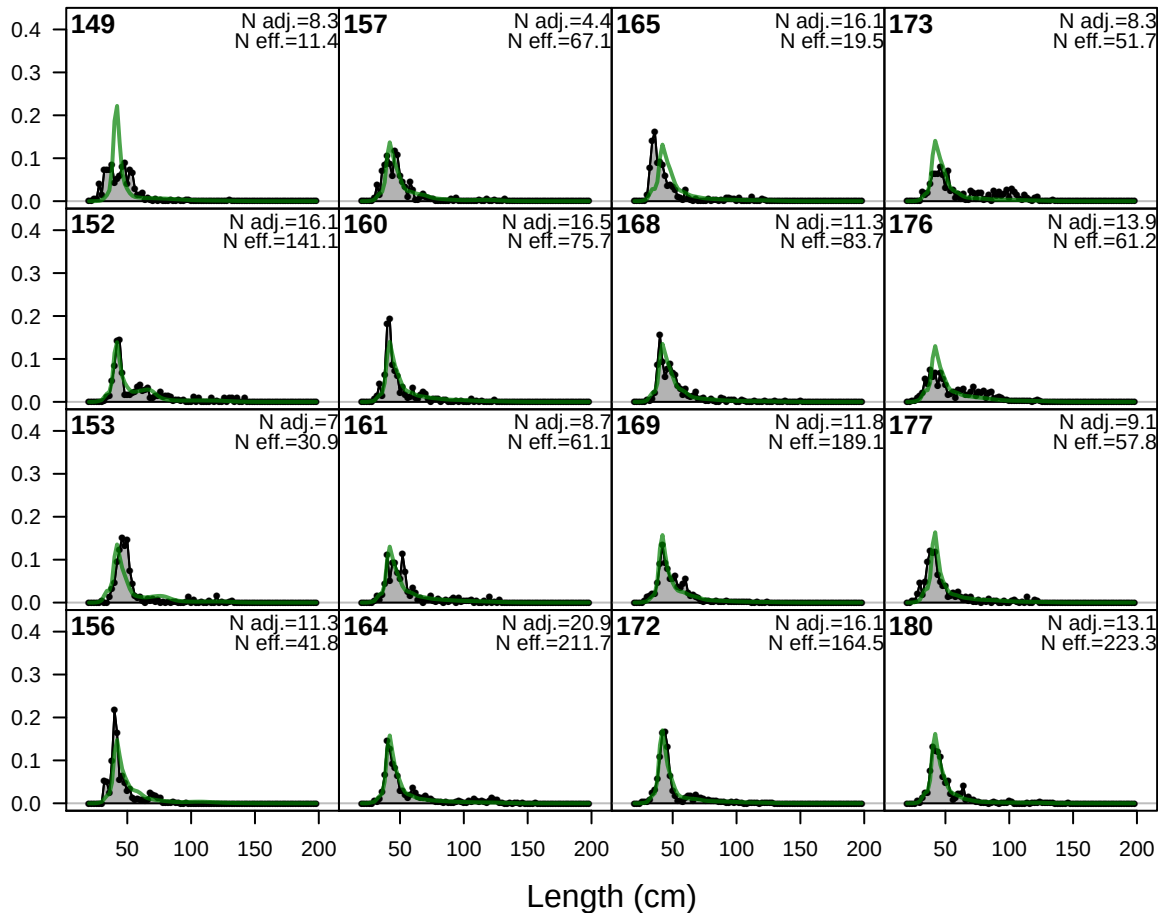
F2-OBJ\_Nc\_Q14 (whole catch)

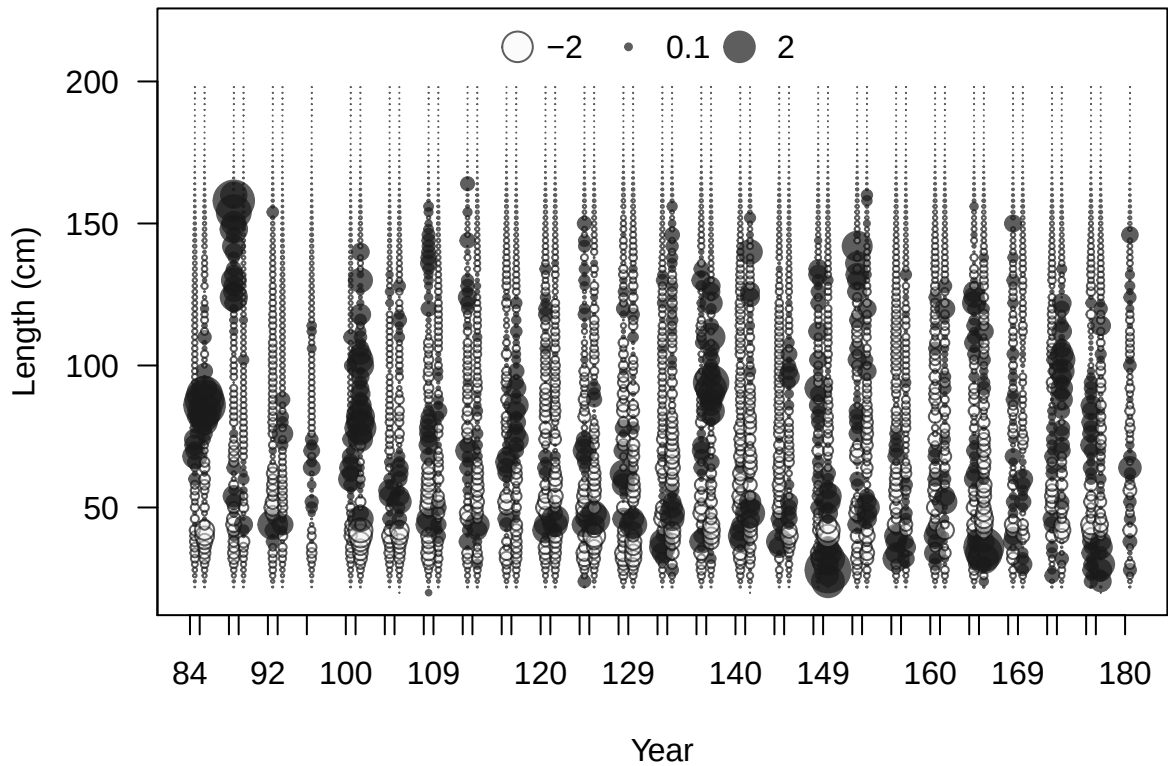




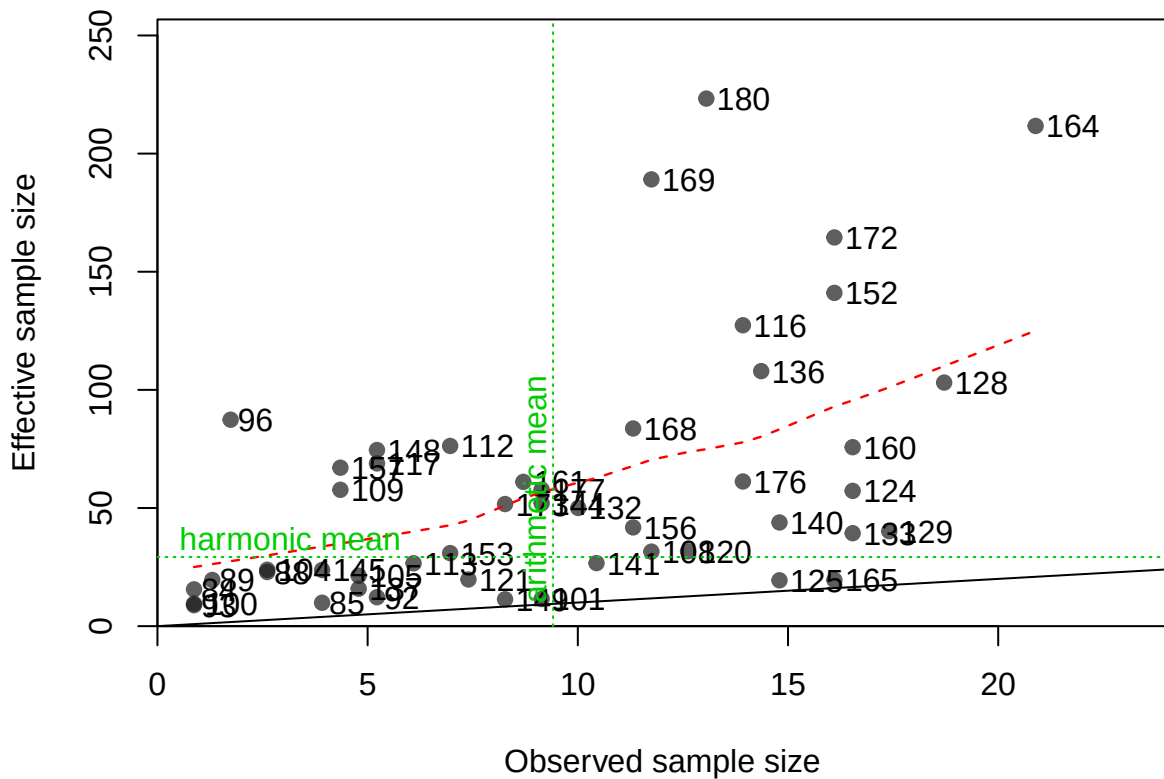


Proportion









F3-OBJ\_C\_Q14 (whole catch)

Mean length

100  
80  
60  
40  
20

Year

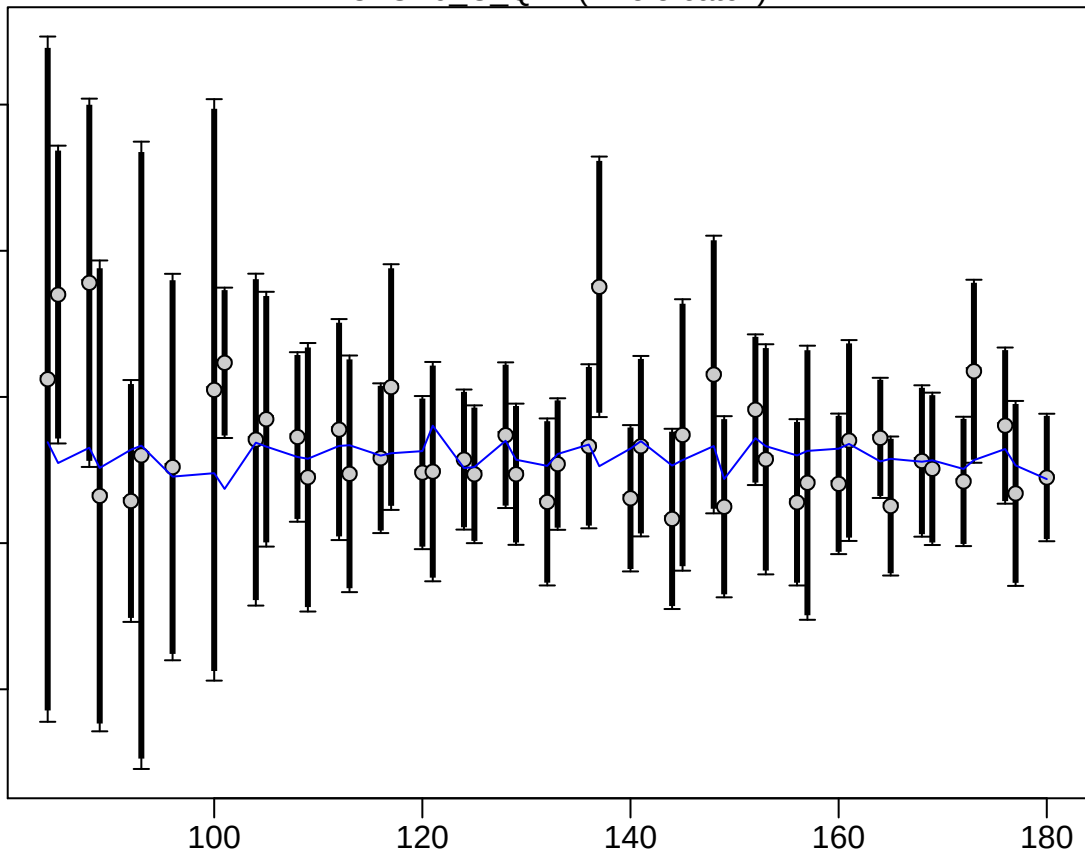
100

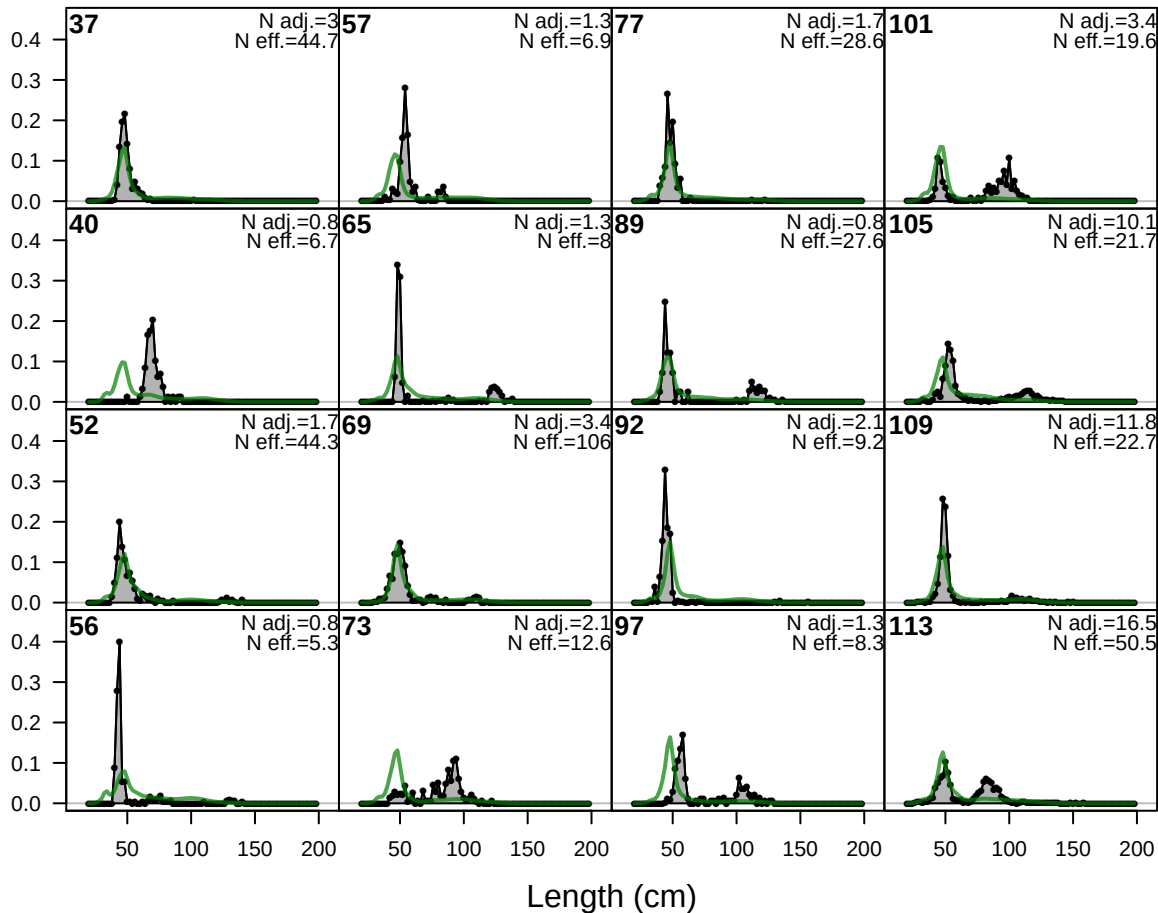
120

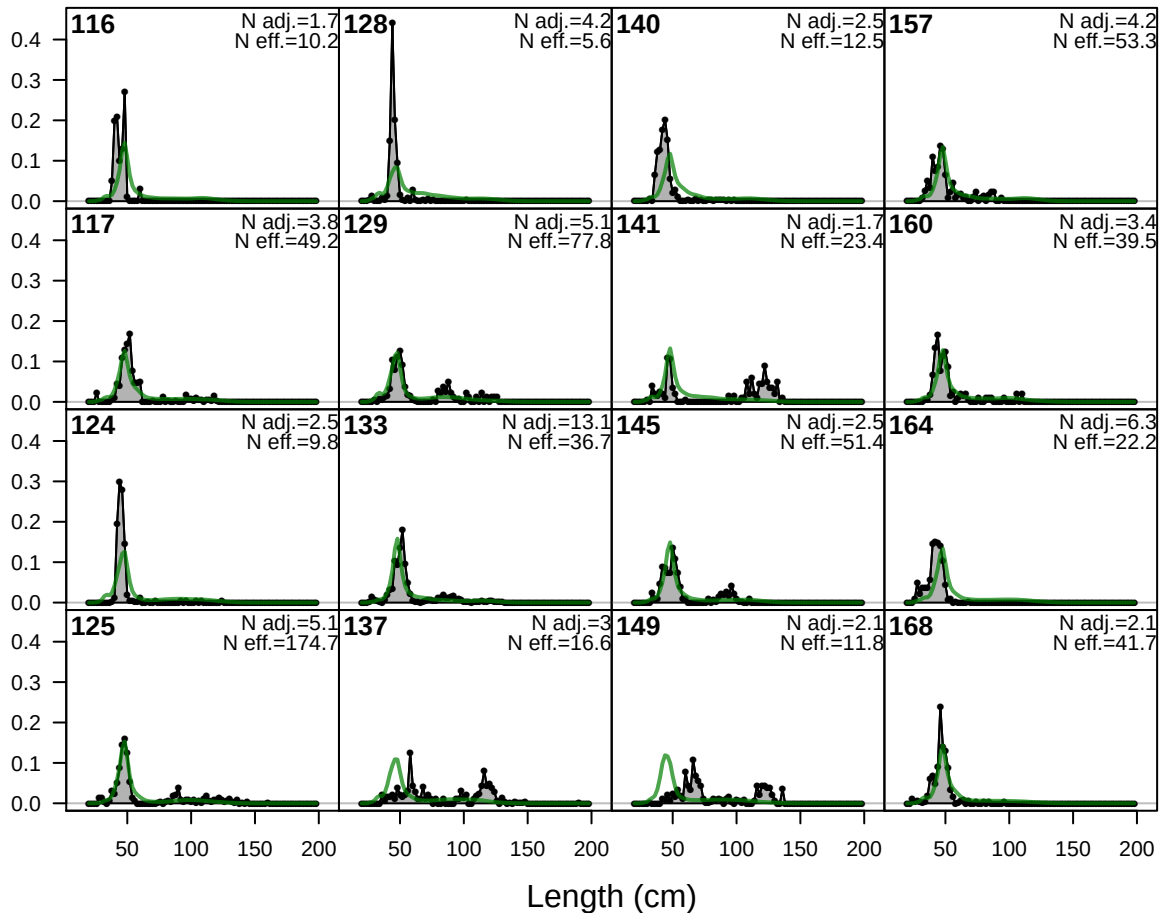
140

160

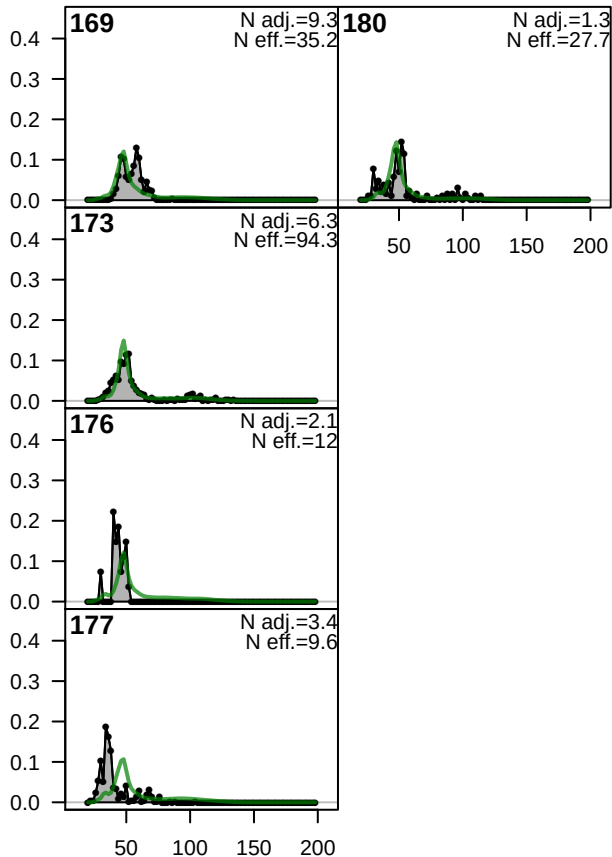
180



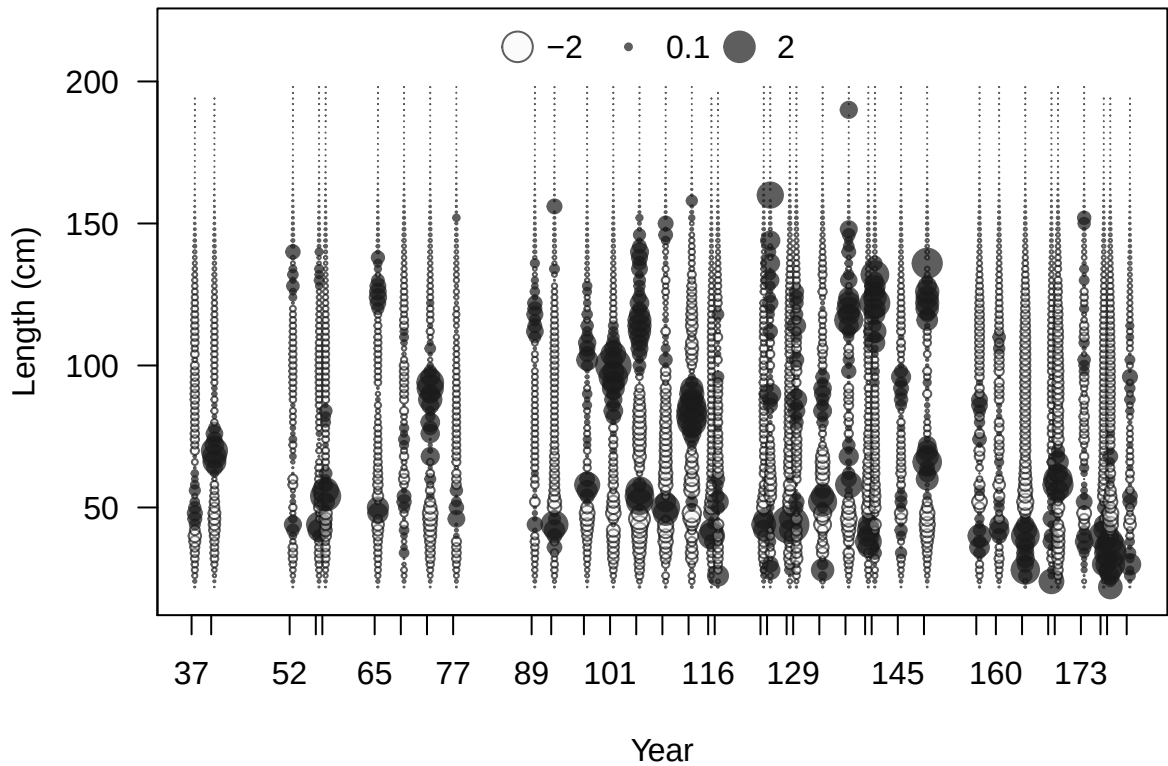


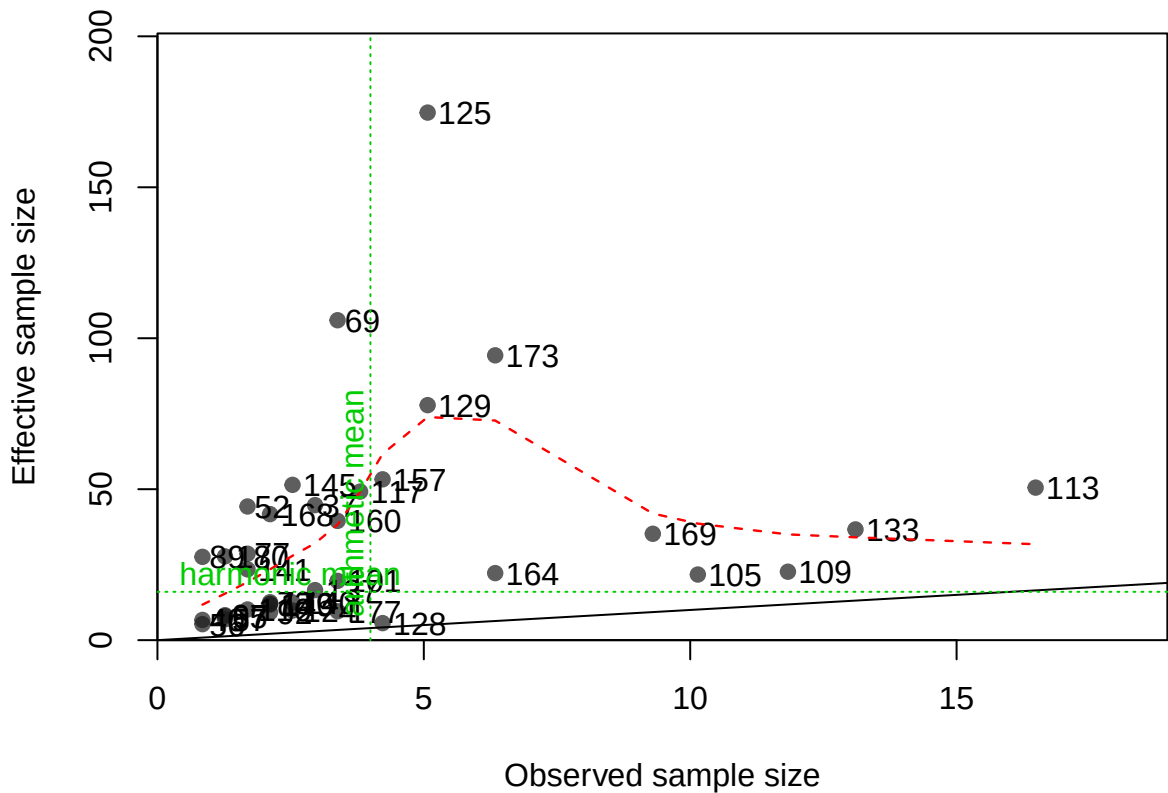


Proportion



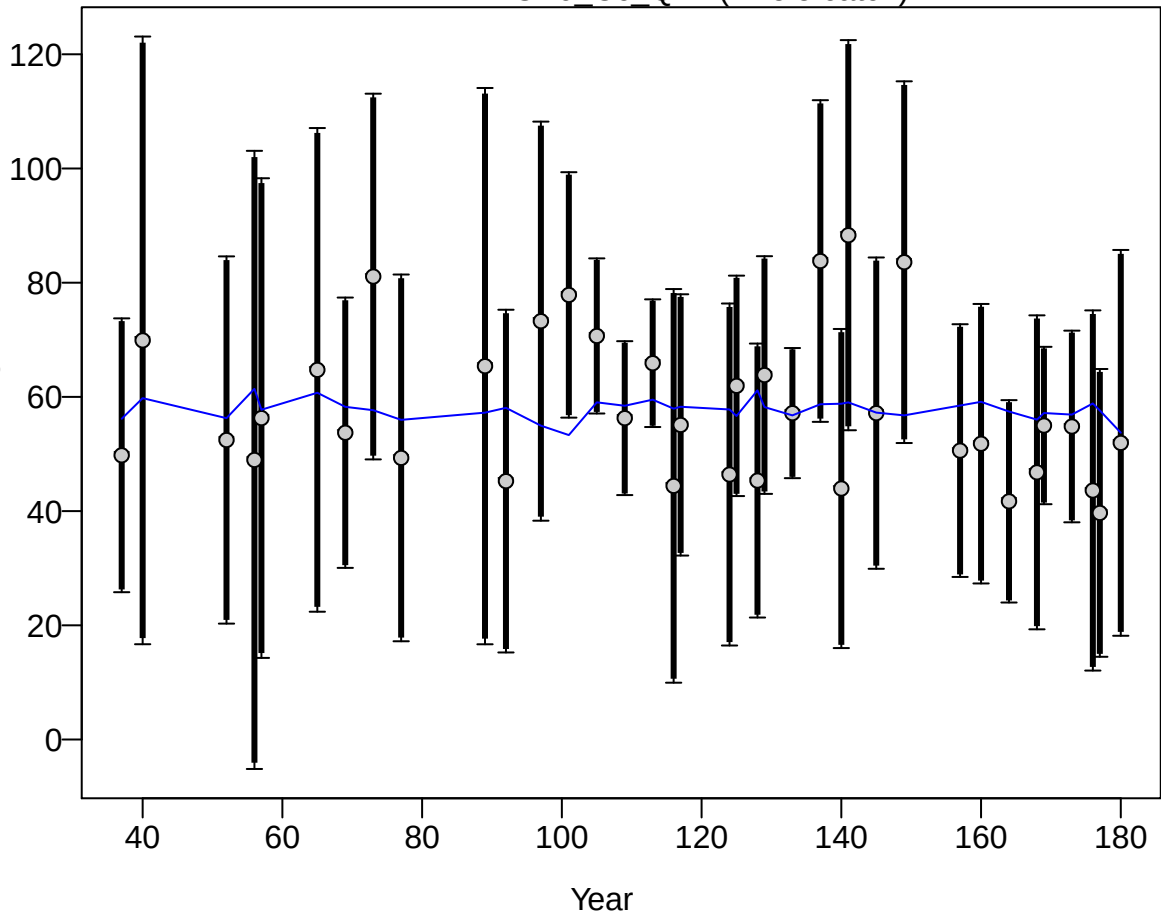
Length (cm)



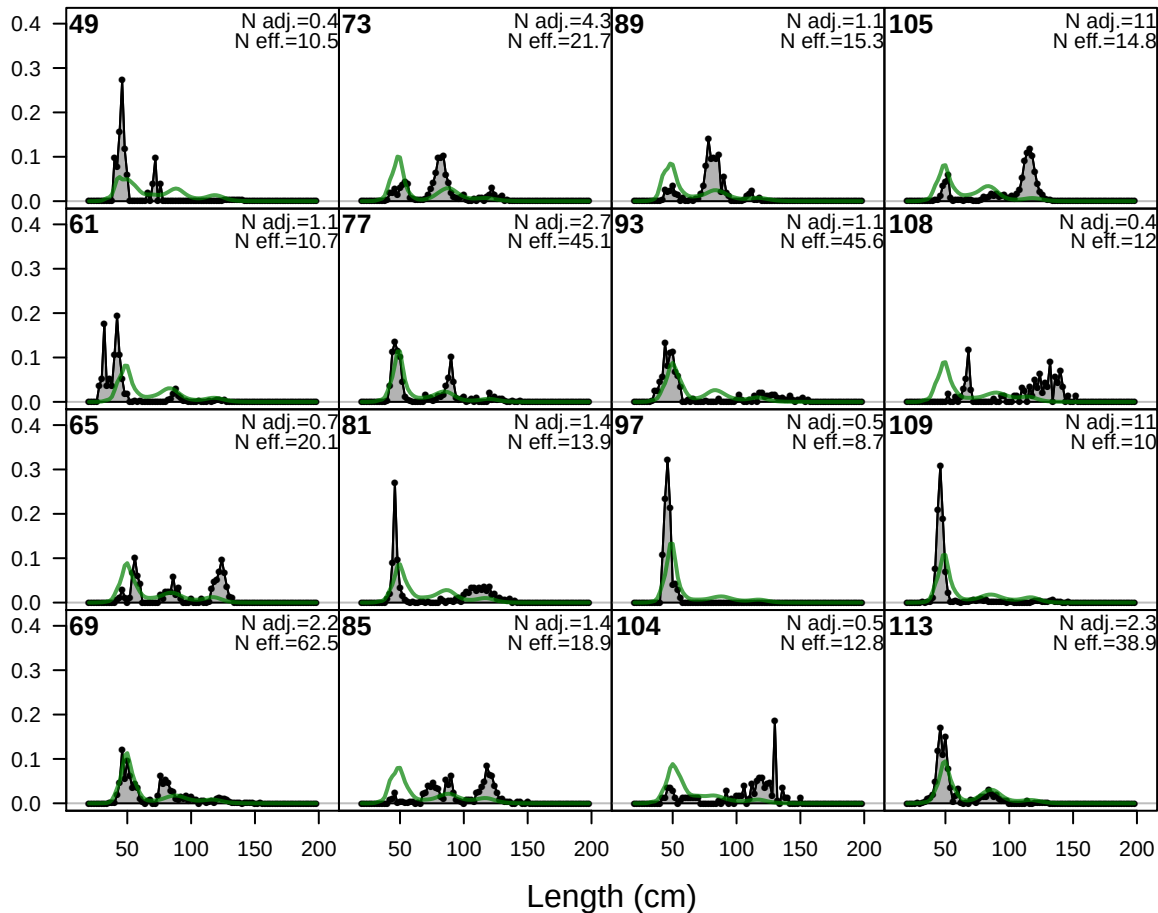


## F4-OBJ\_Cc\_Q14 (whole catch)

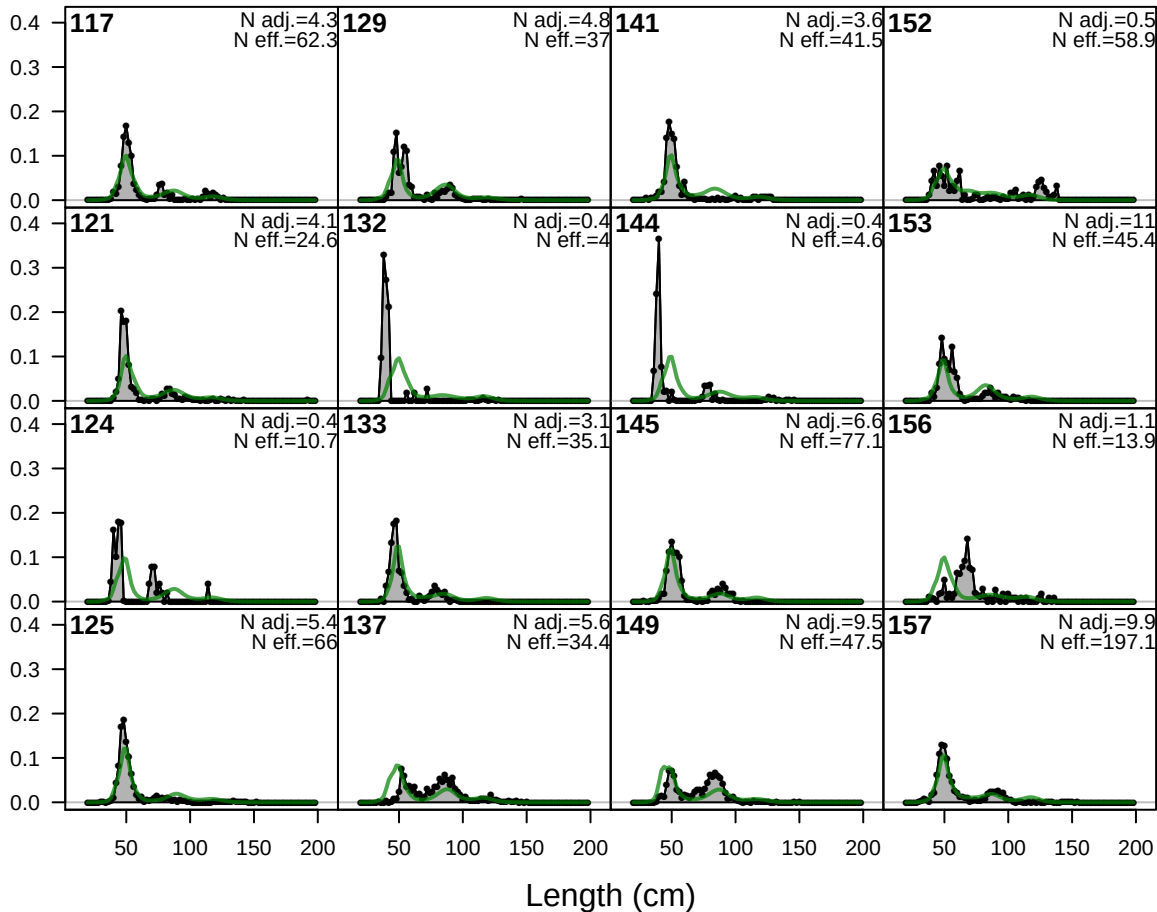
Mean length



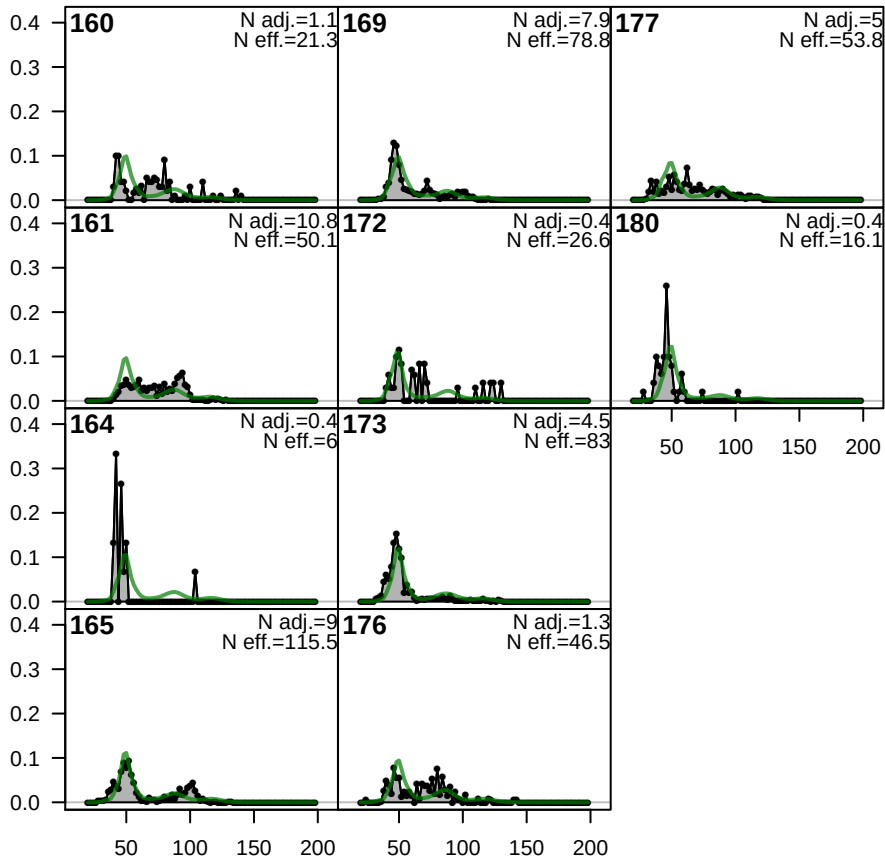




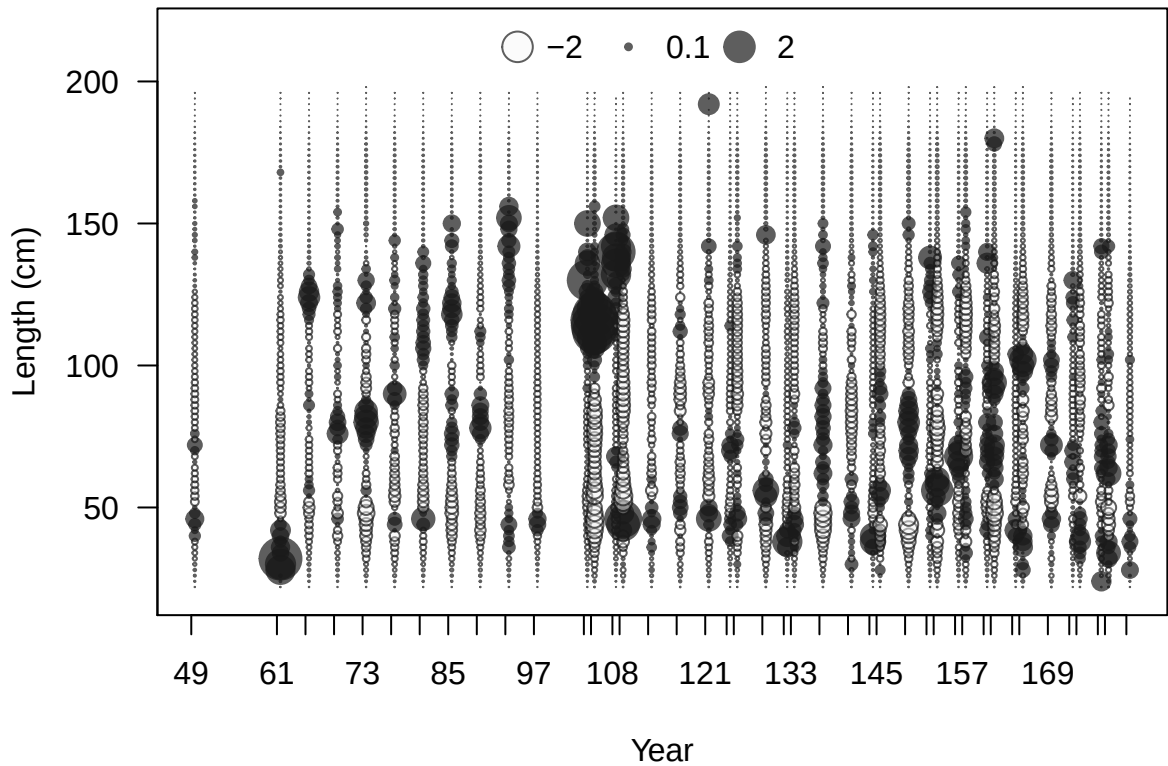
Proportion



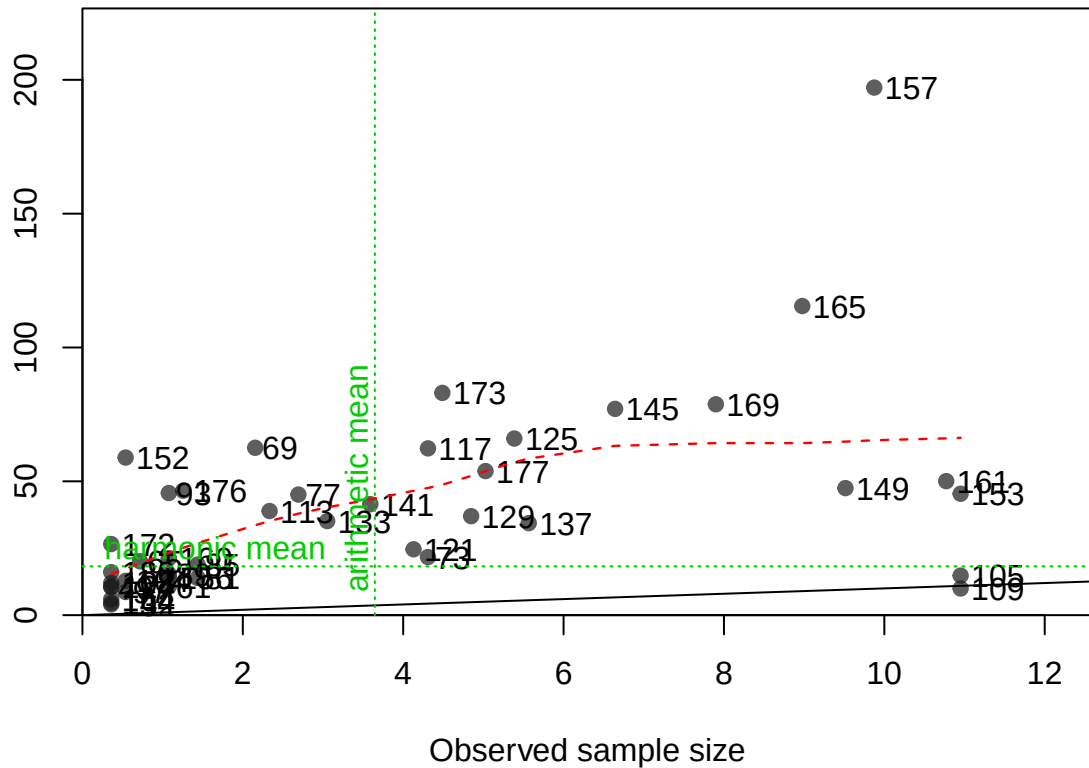
Proportion



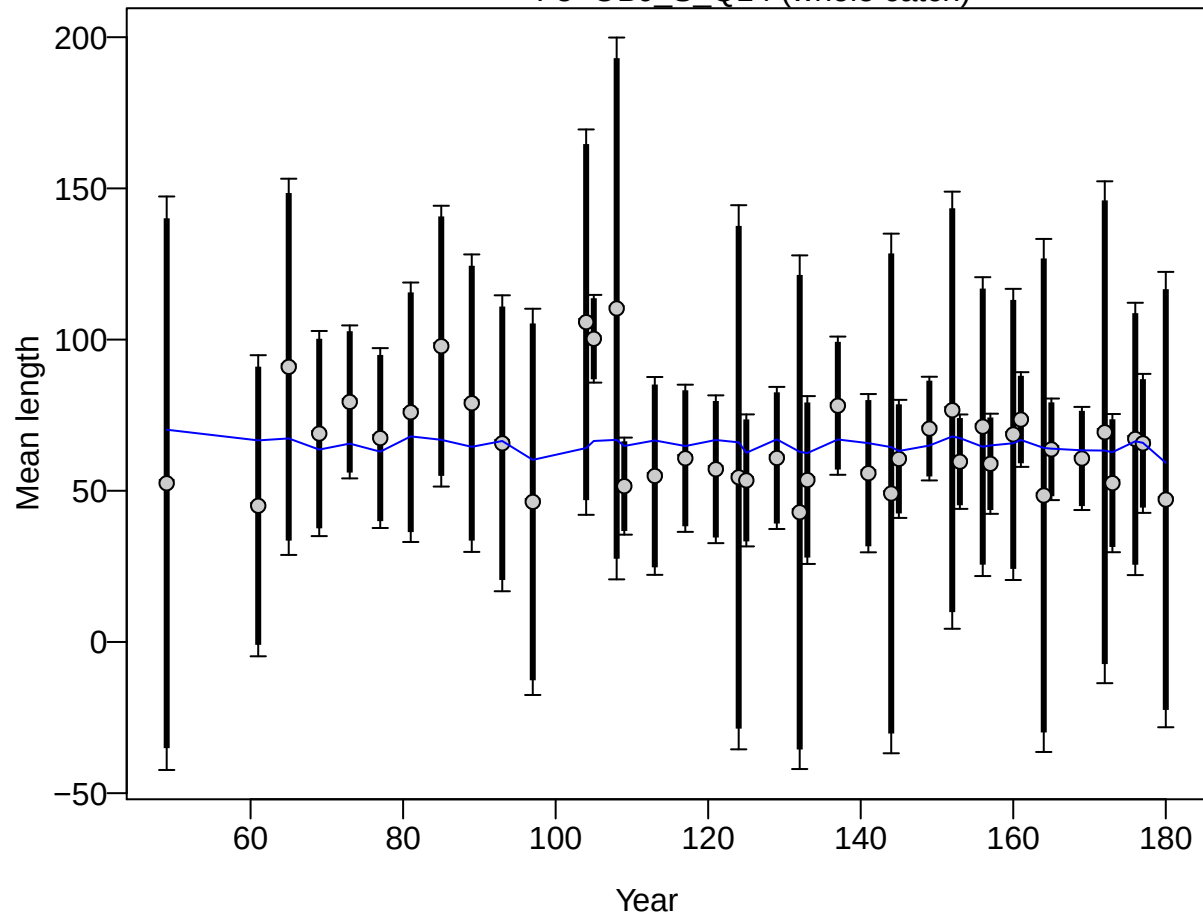
Length (cm)

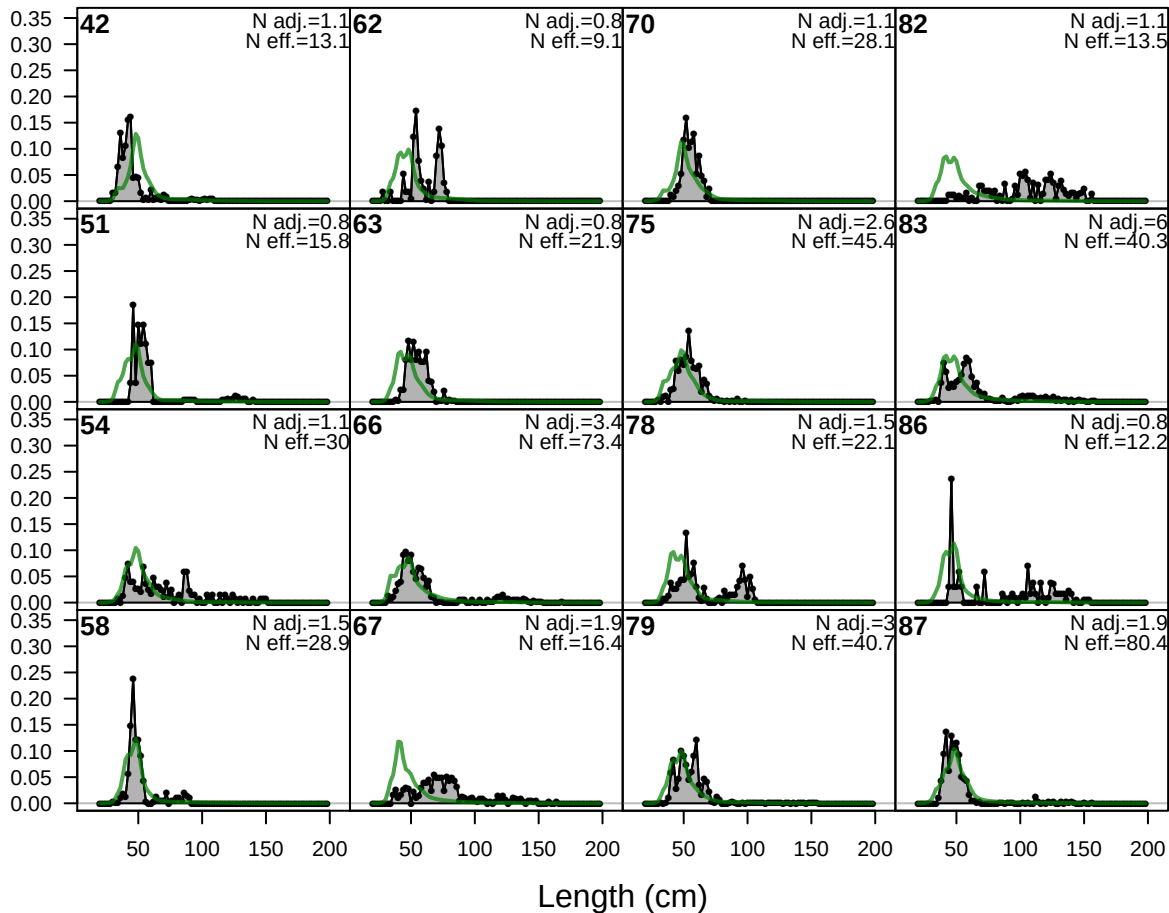


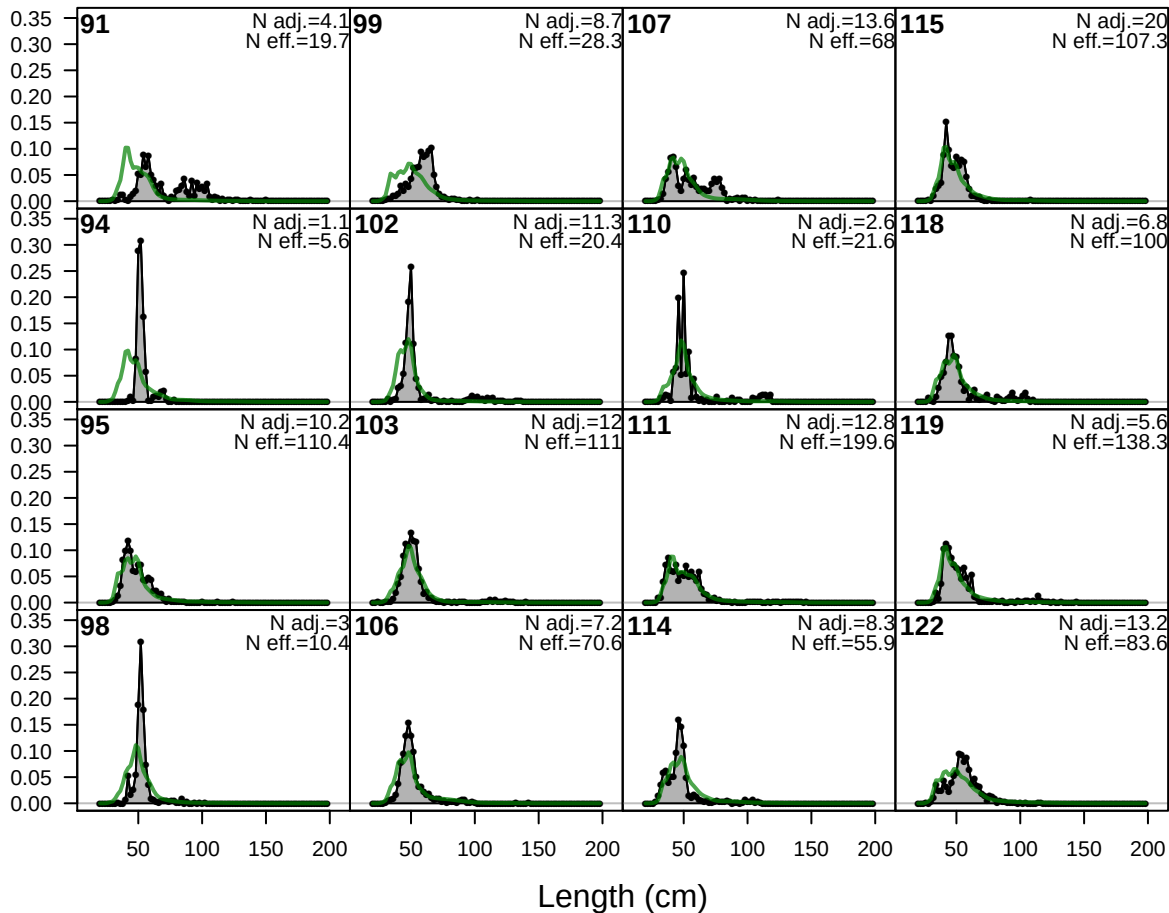
Effective sample size



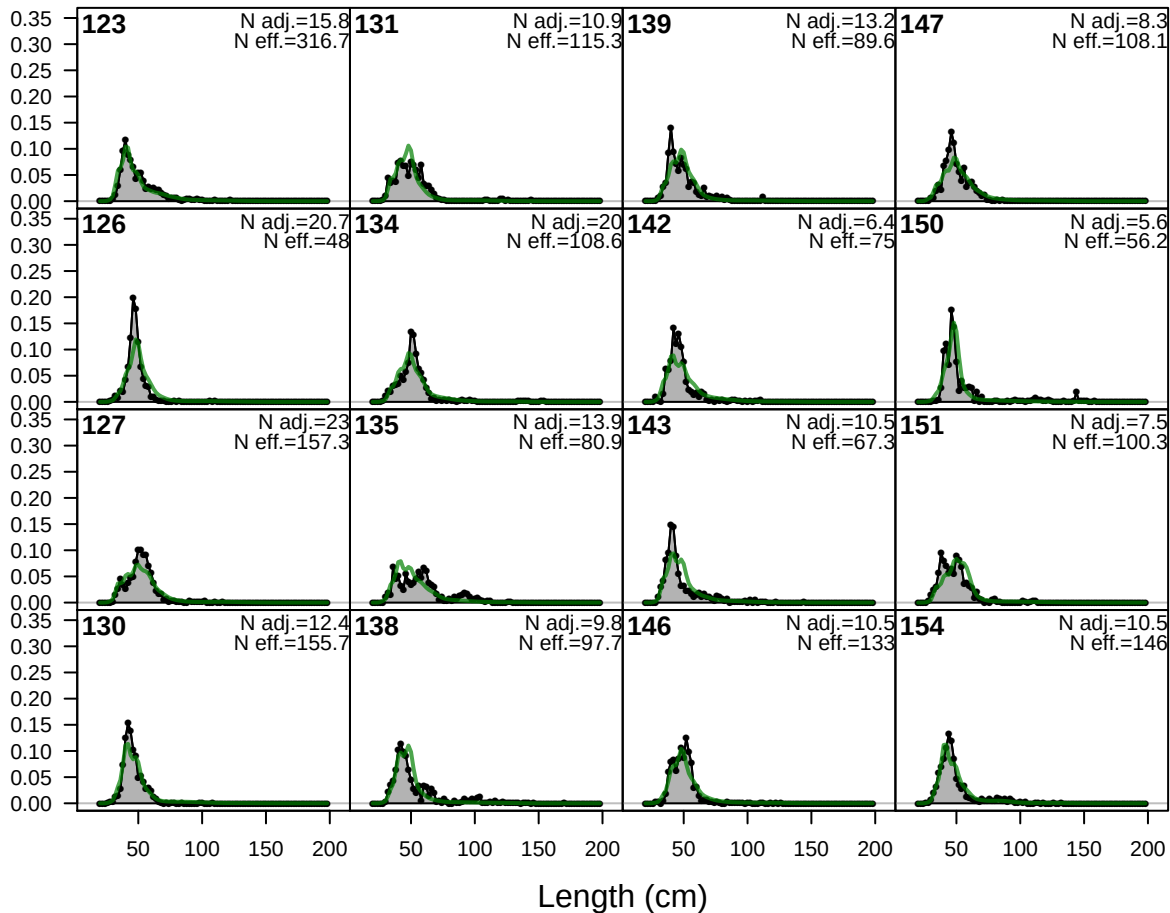
F5-OBJ S\_Q14 (whole catch)

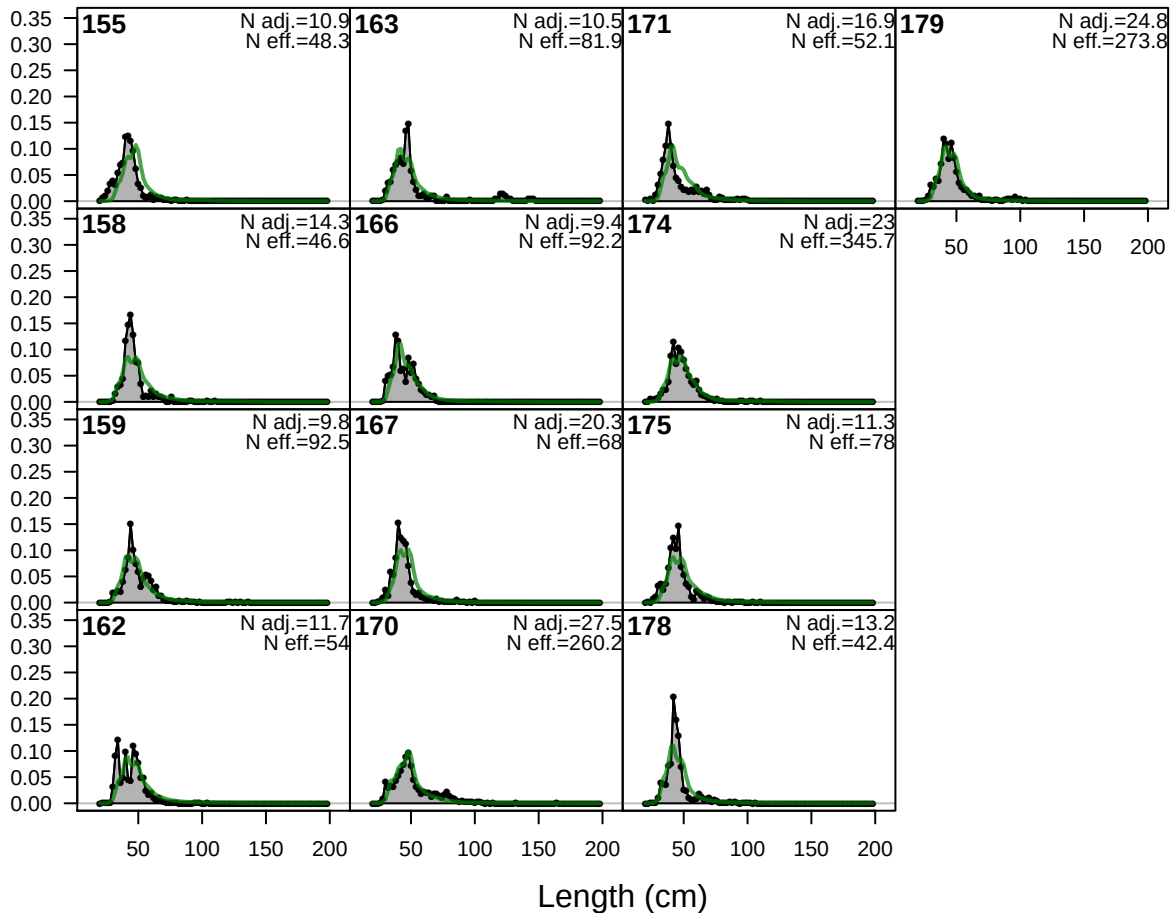


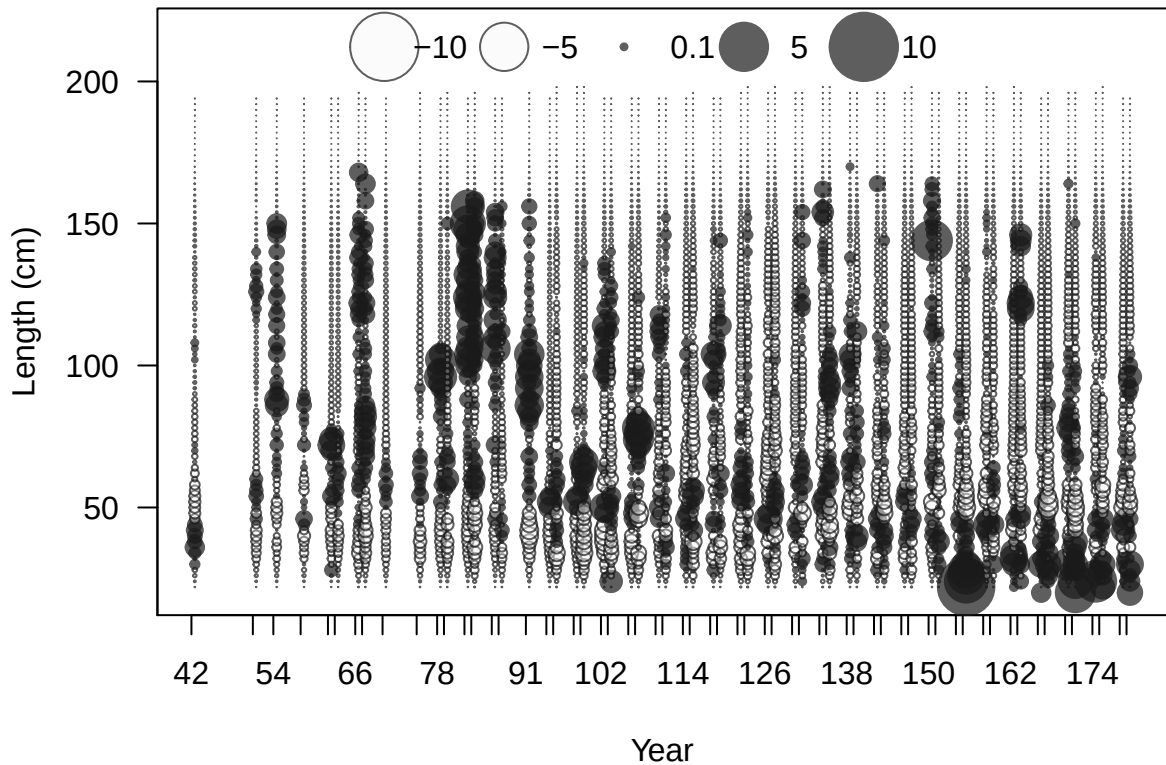




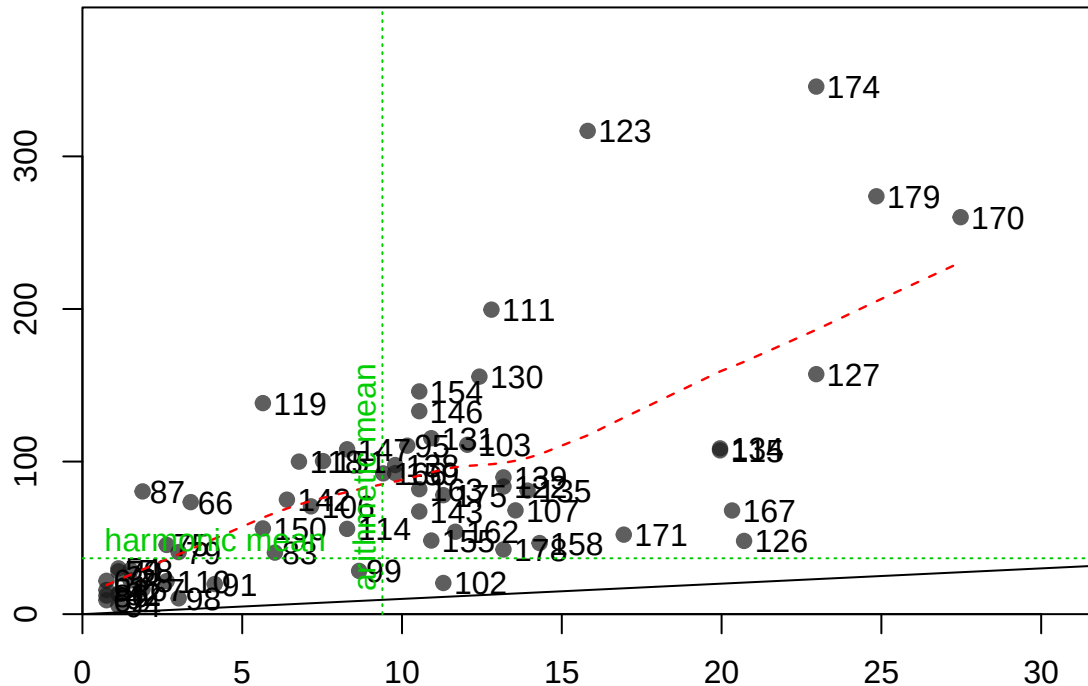




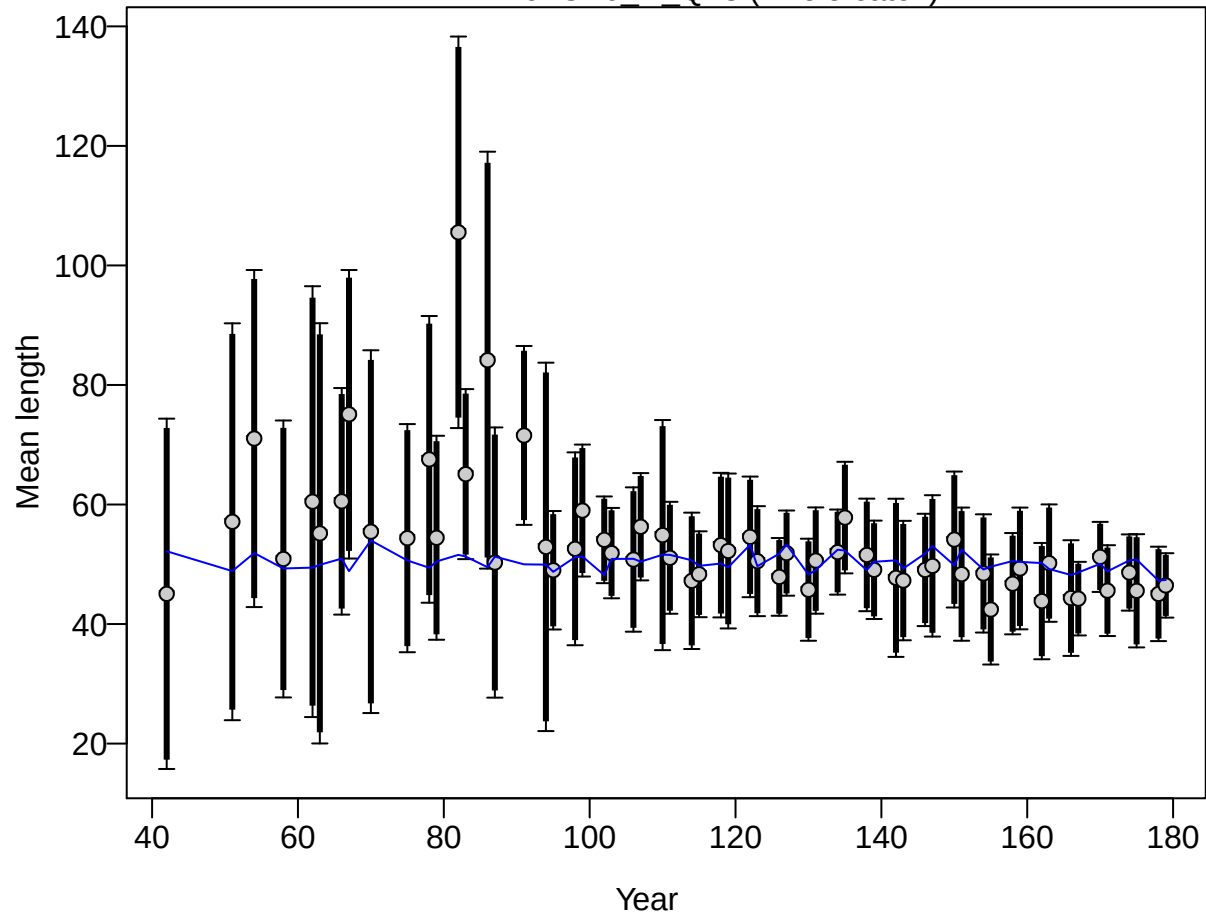




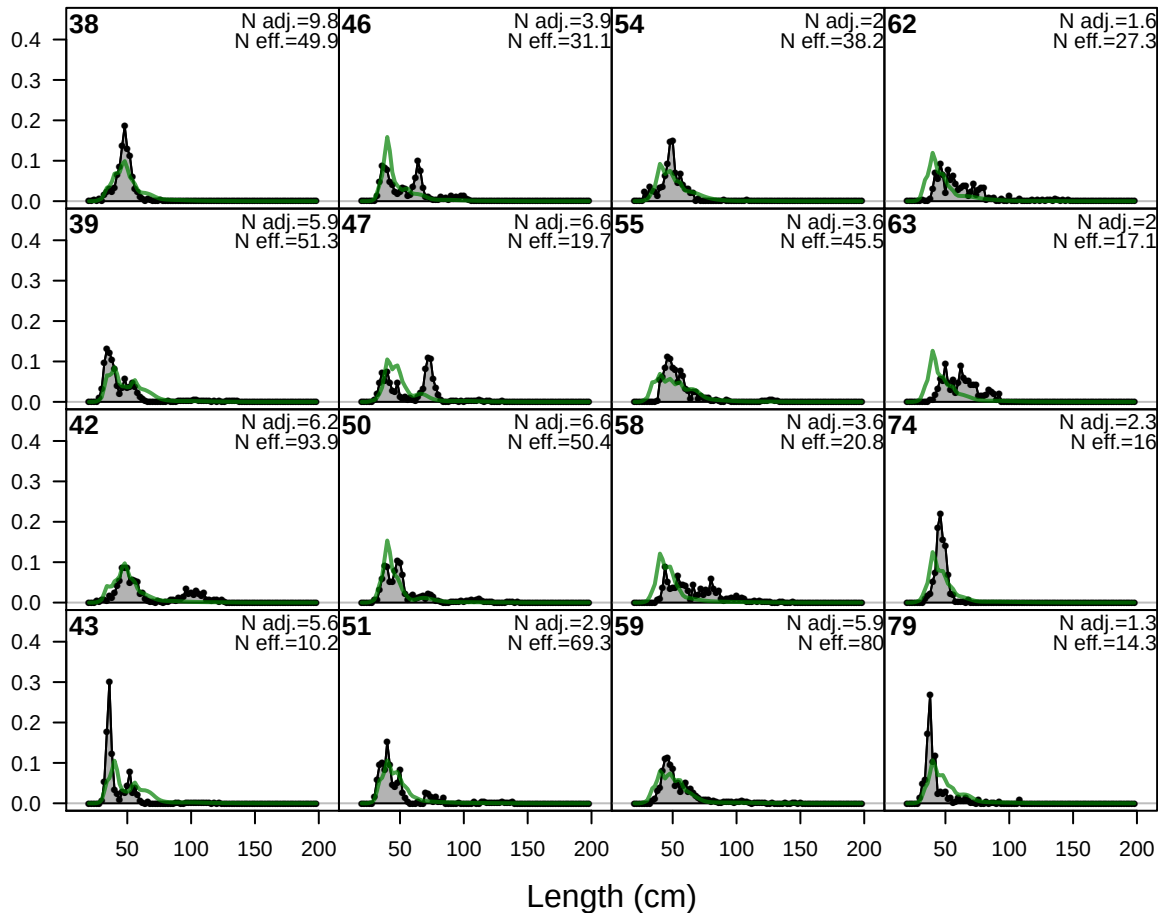
Effective sample size

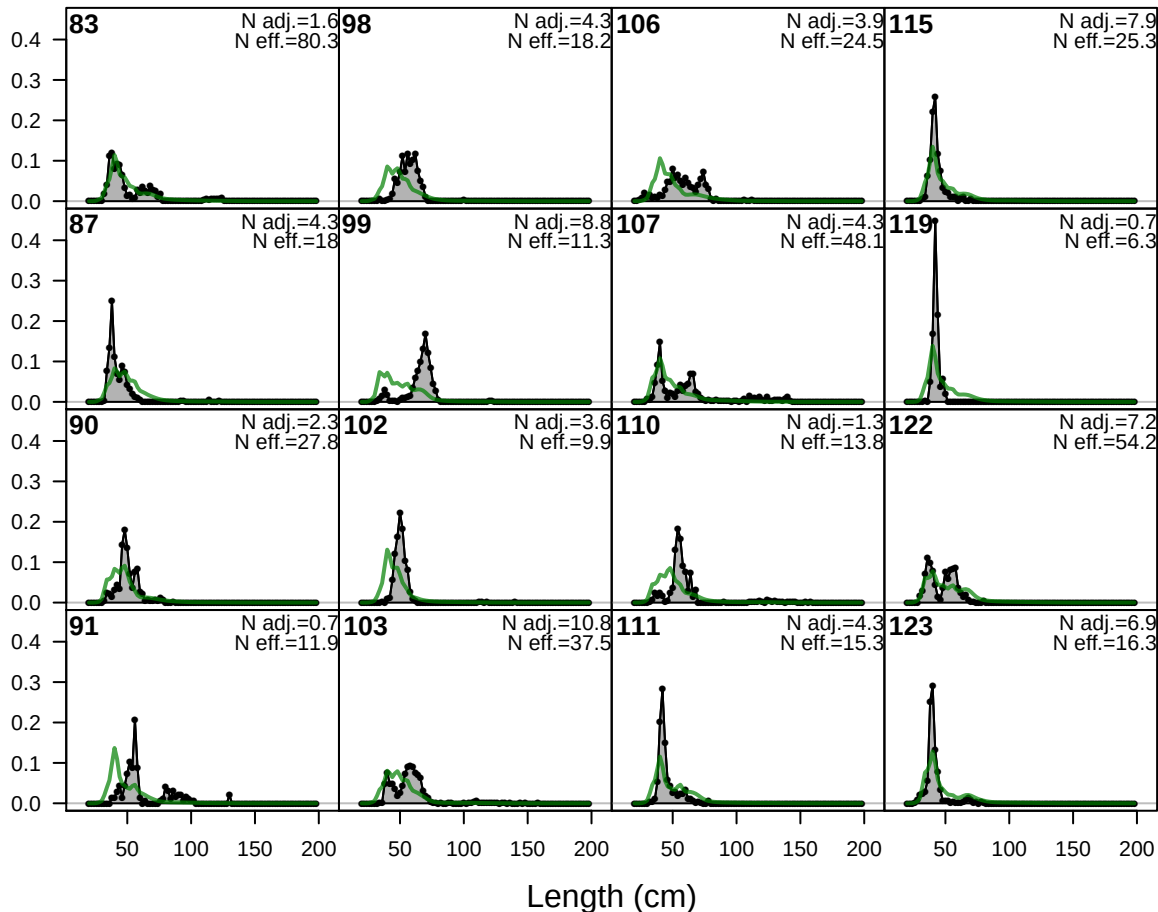


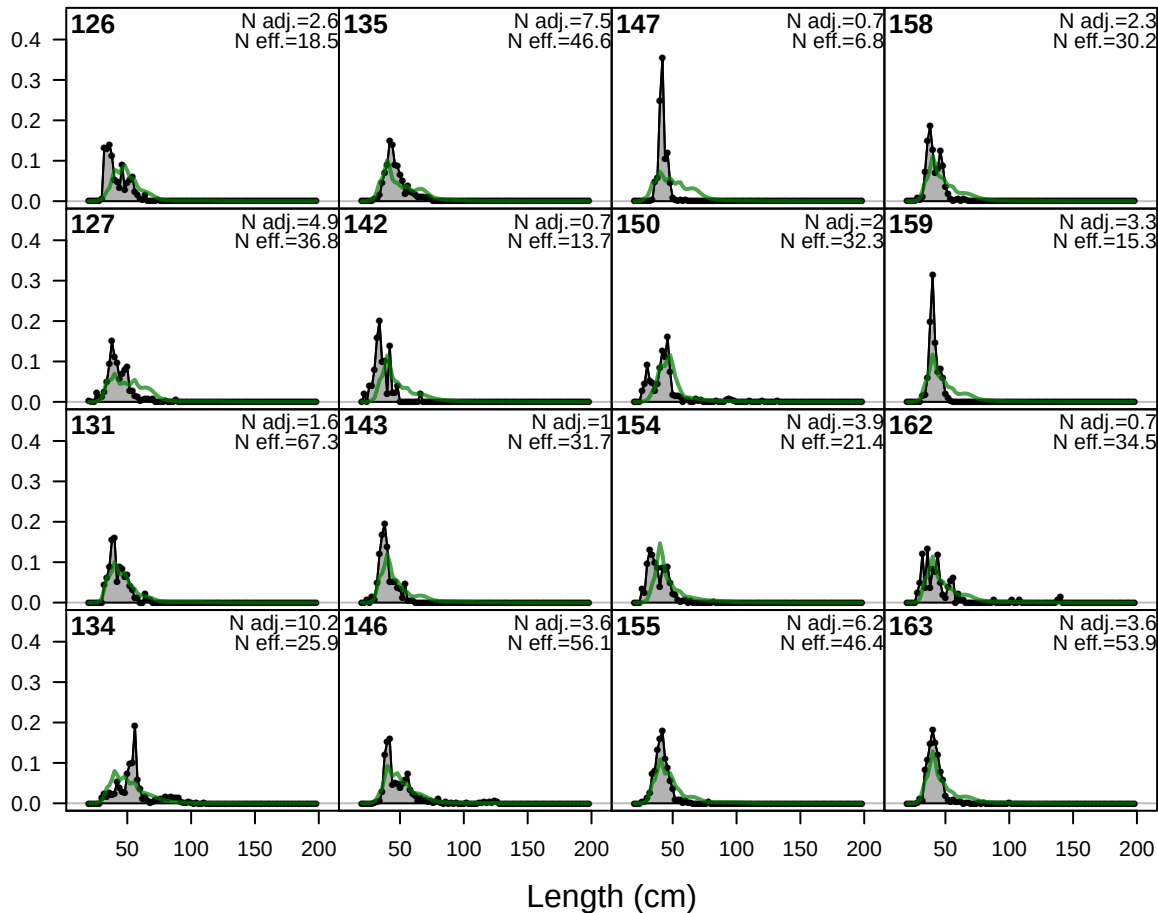
F6-OBJ\_N\_Q23 (whole catch)



Proportion

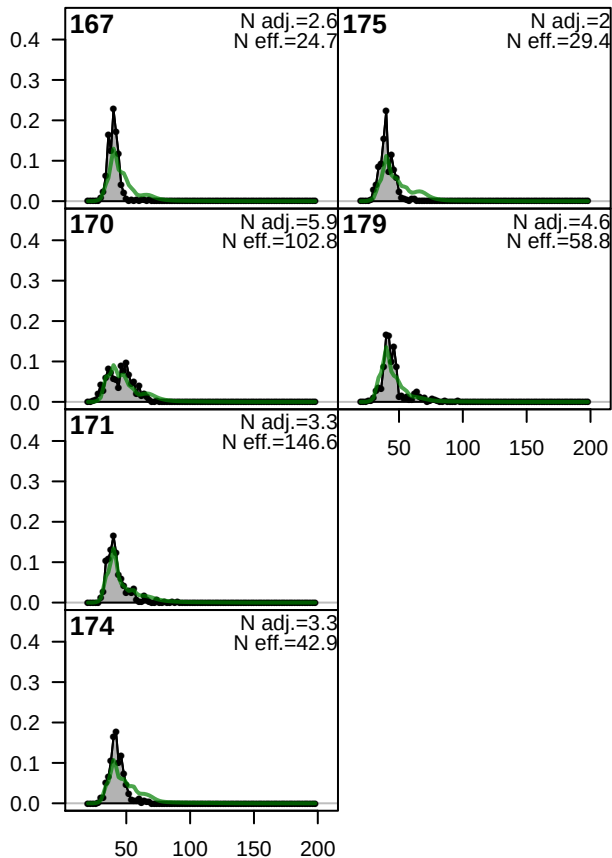




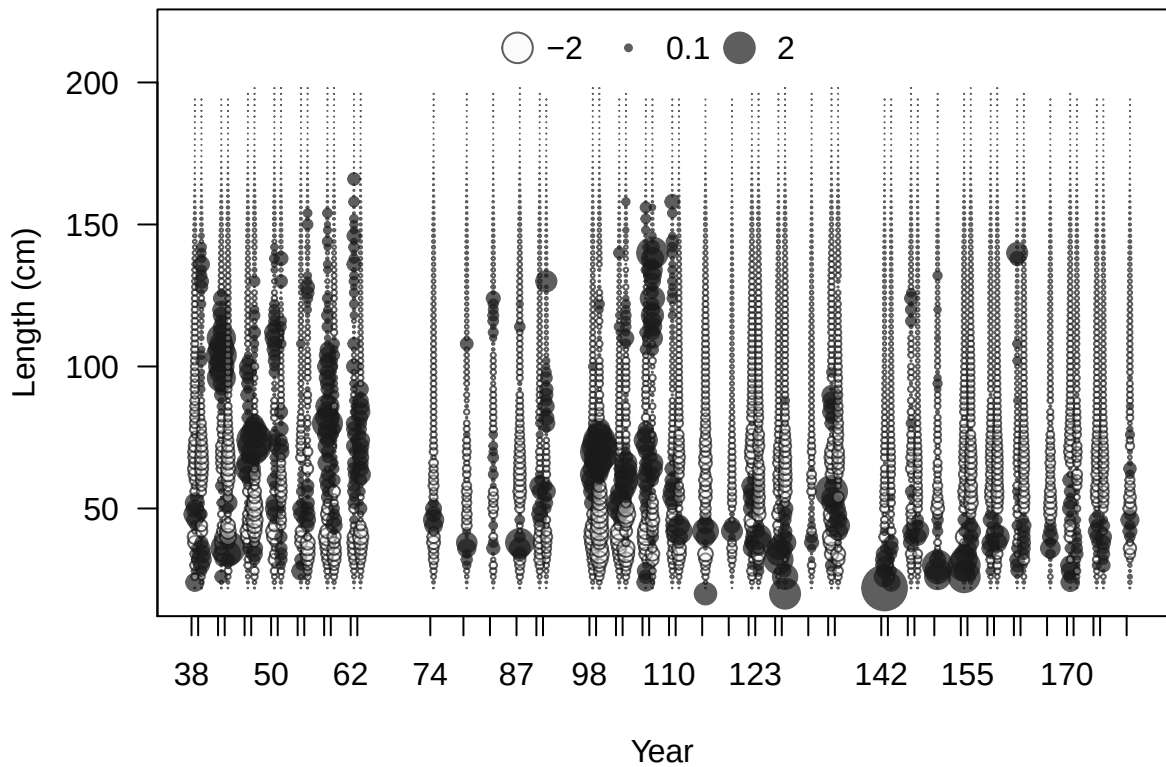




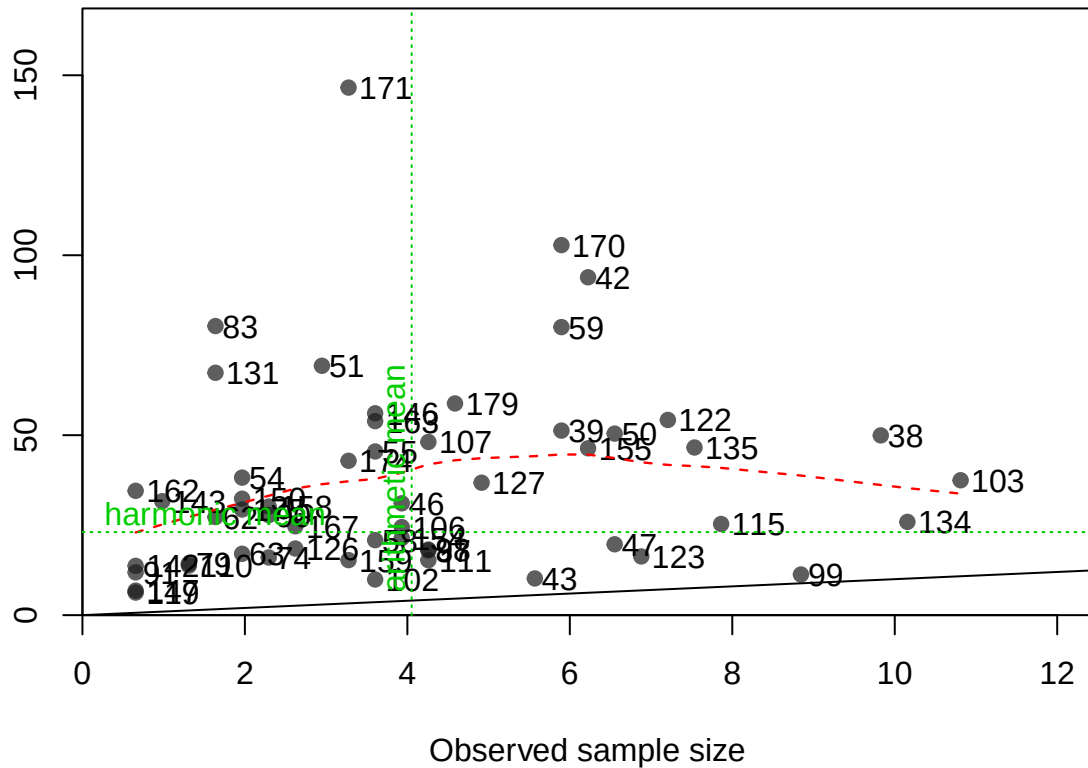
Proportion



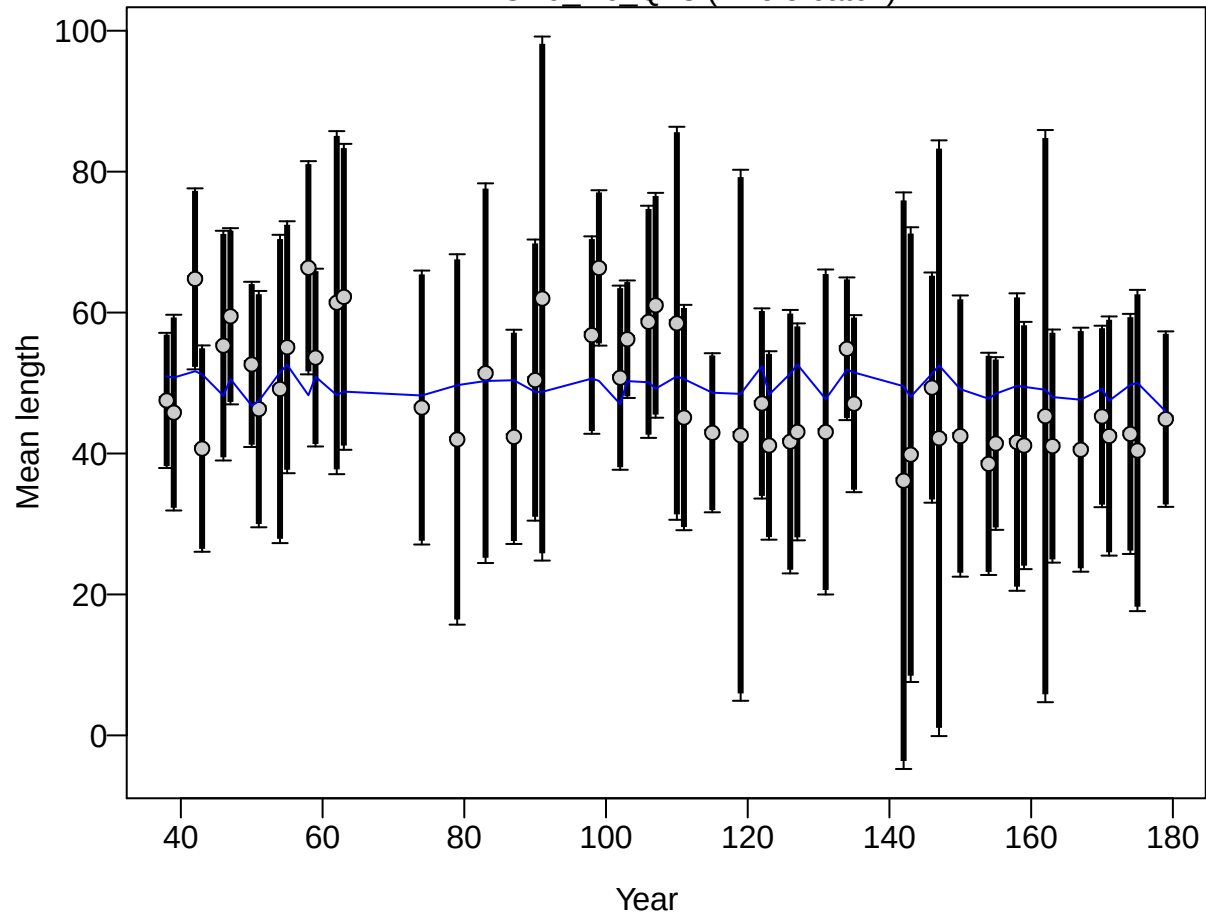
Length (cm)

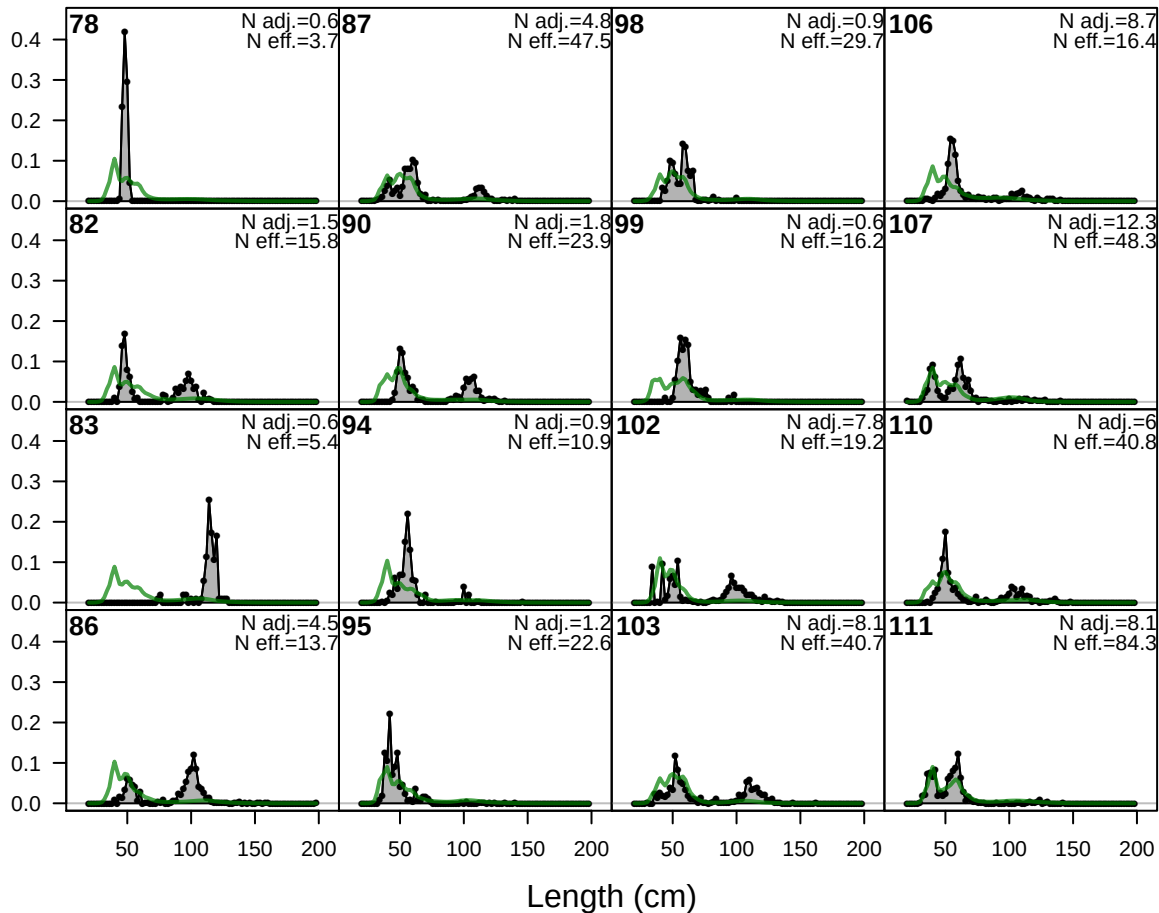


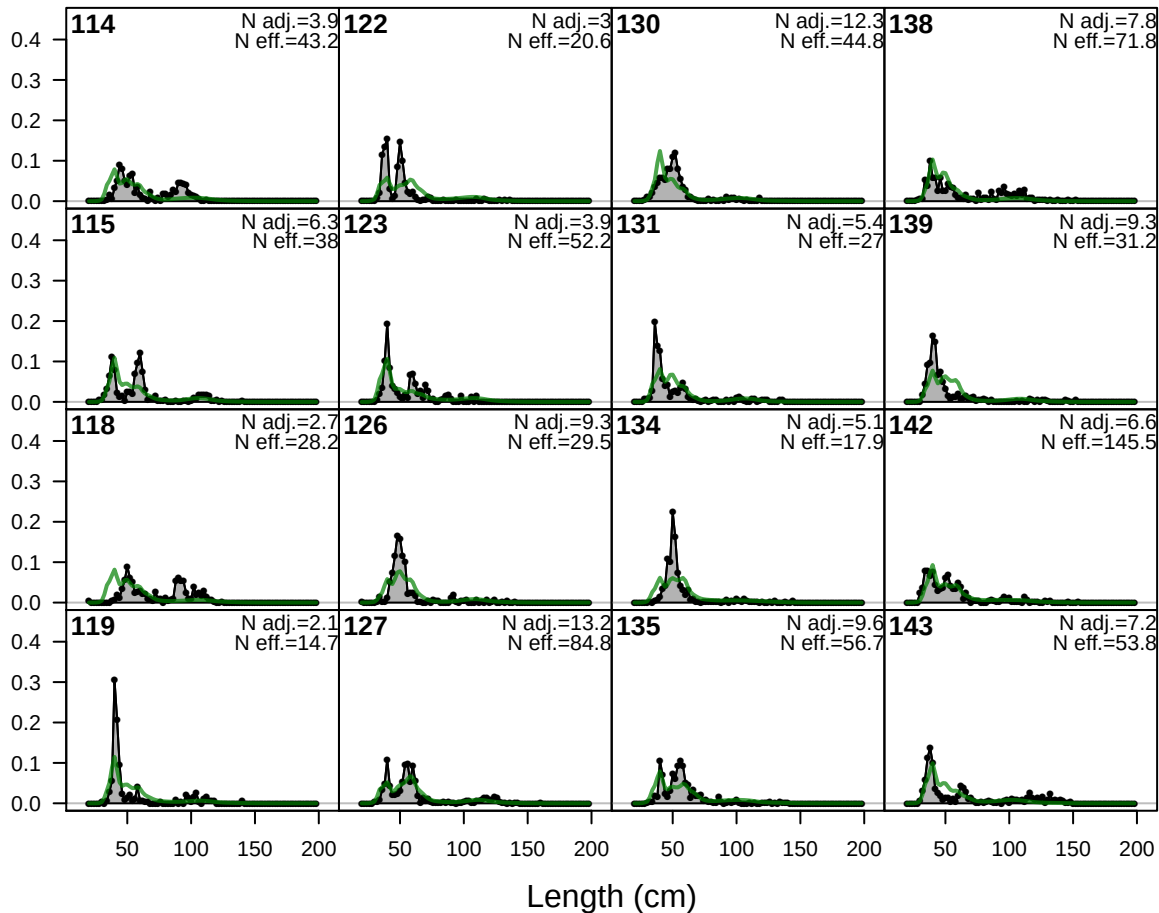
Effective sample size

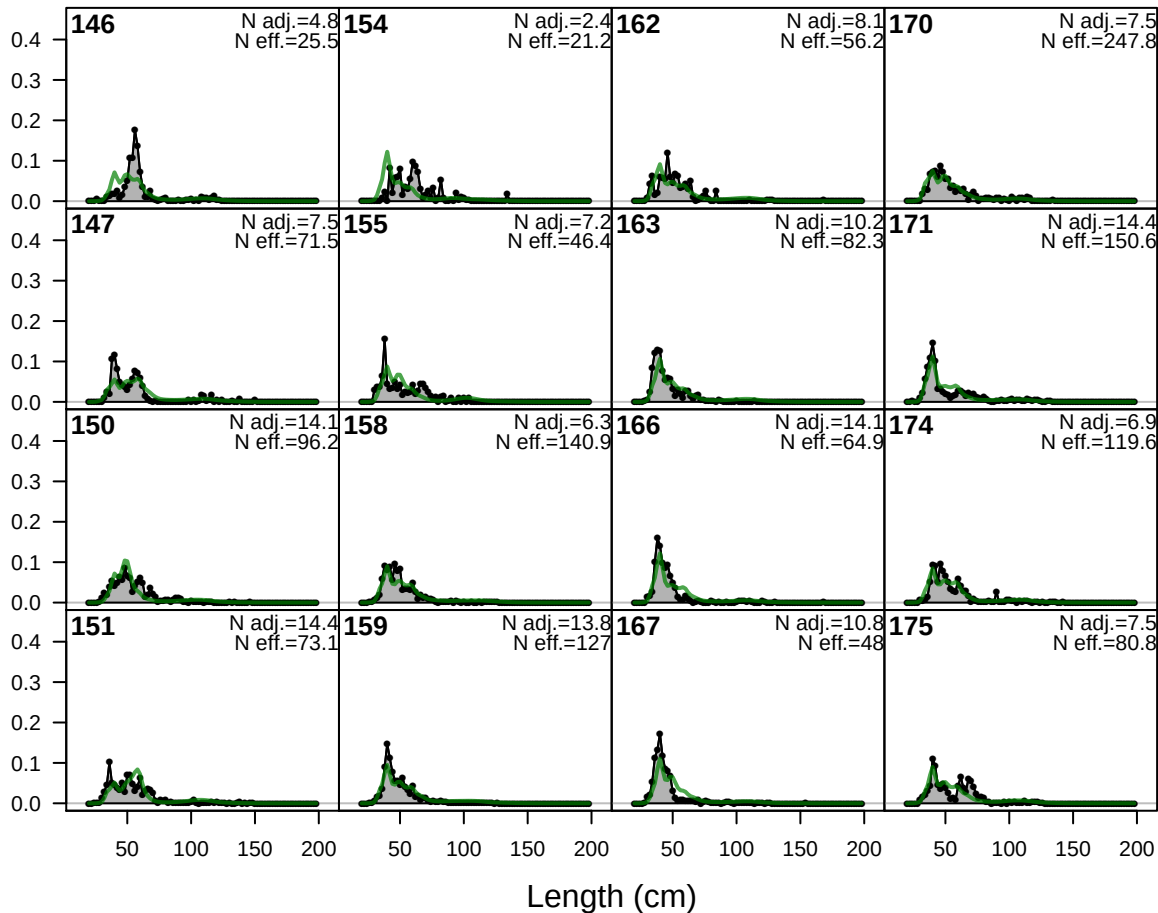


F7-OBJ Nc Q23 (whole catch)

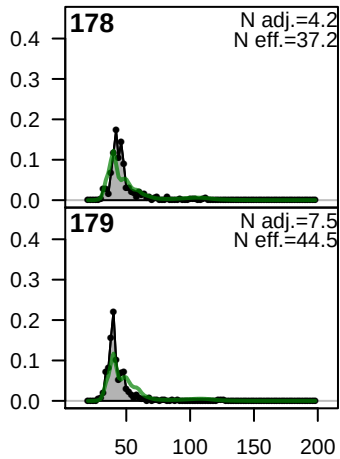






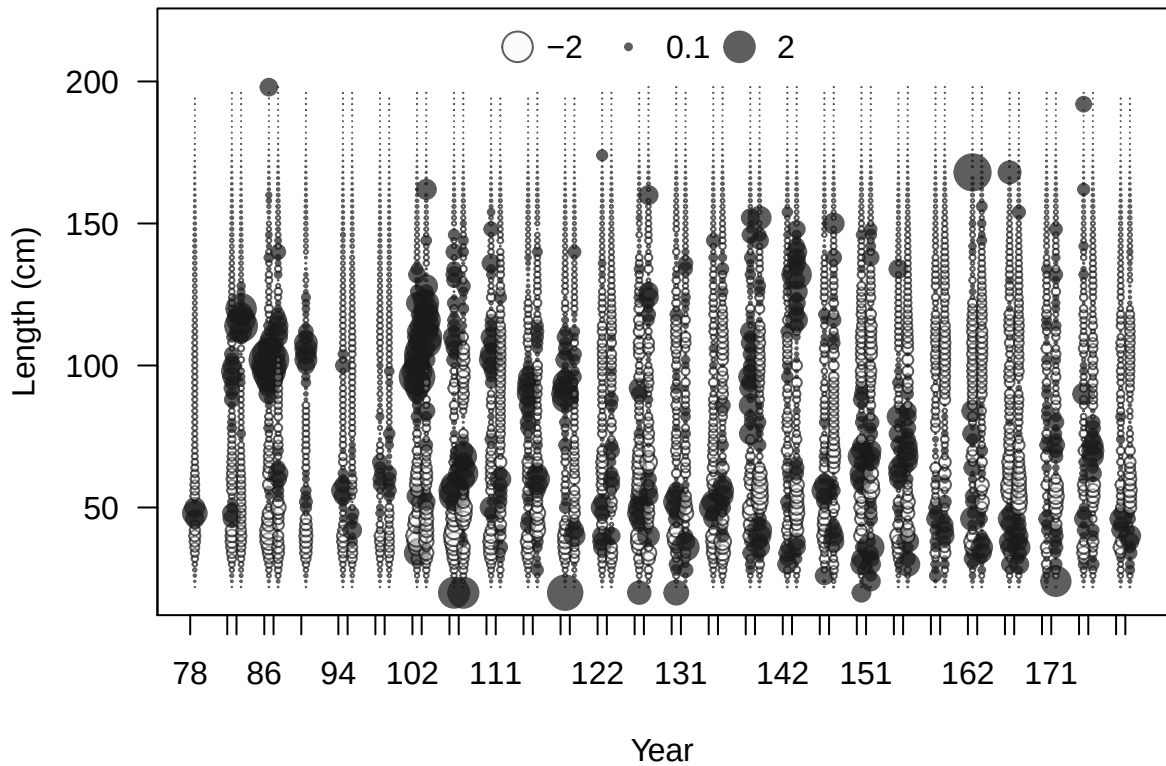


Proportion

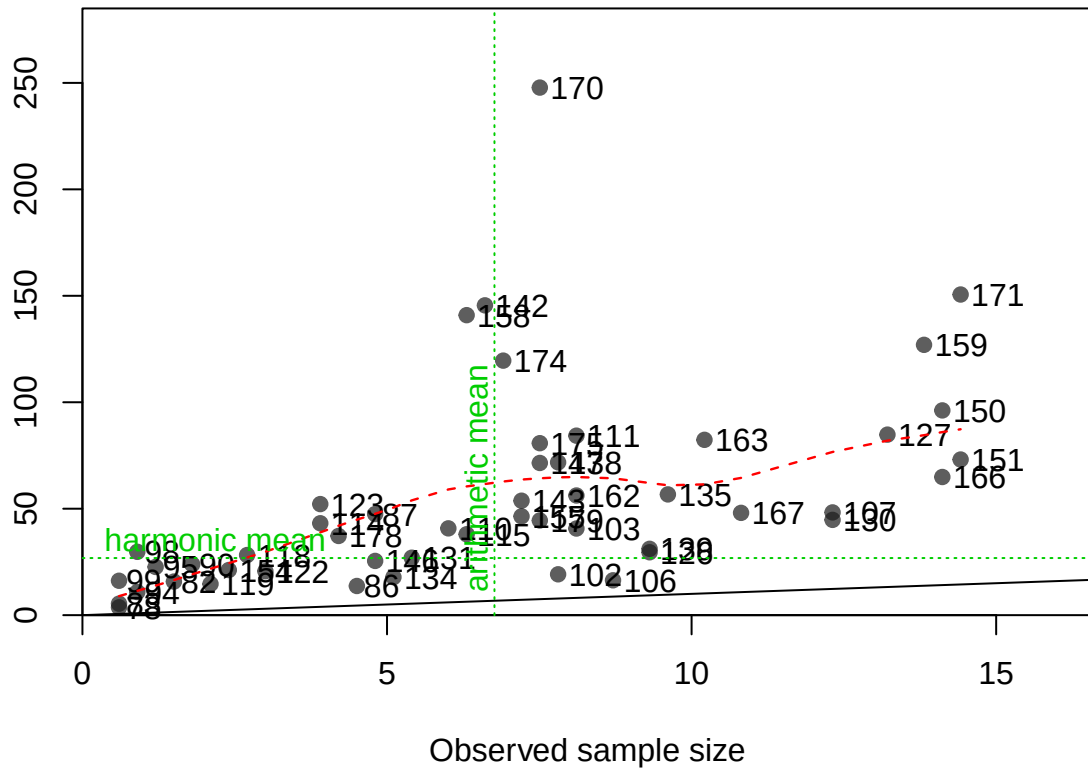


Length (cm)

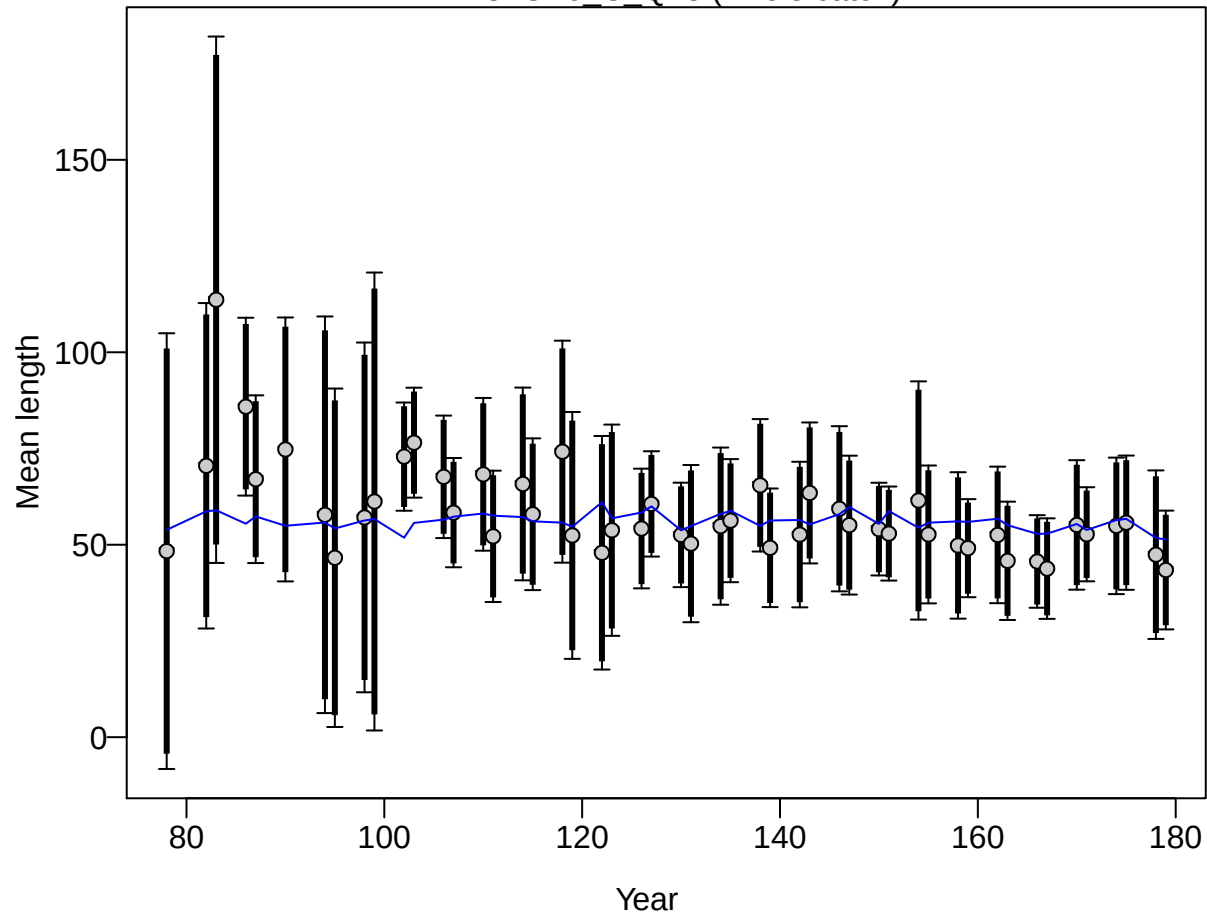


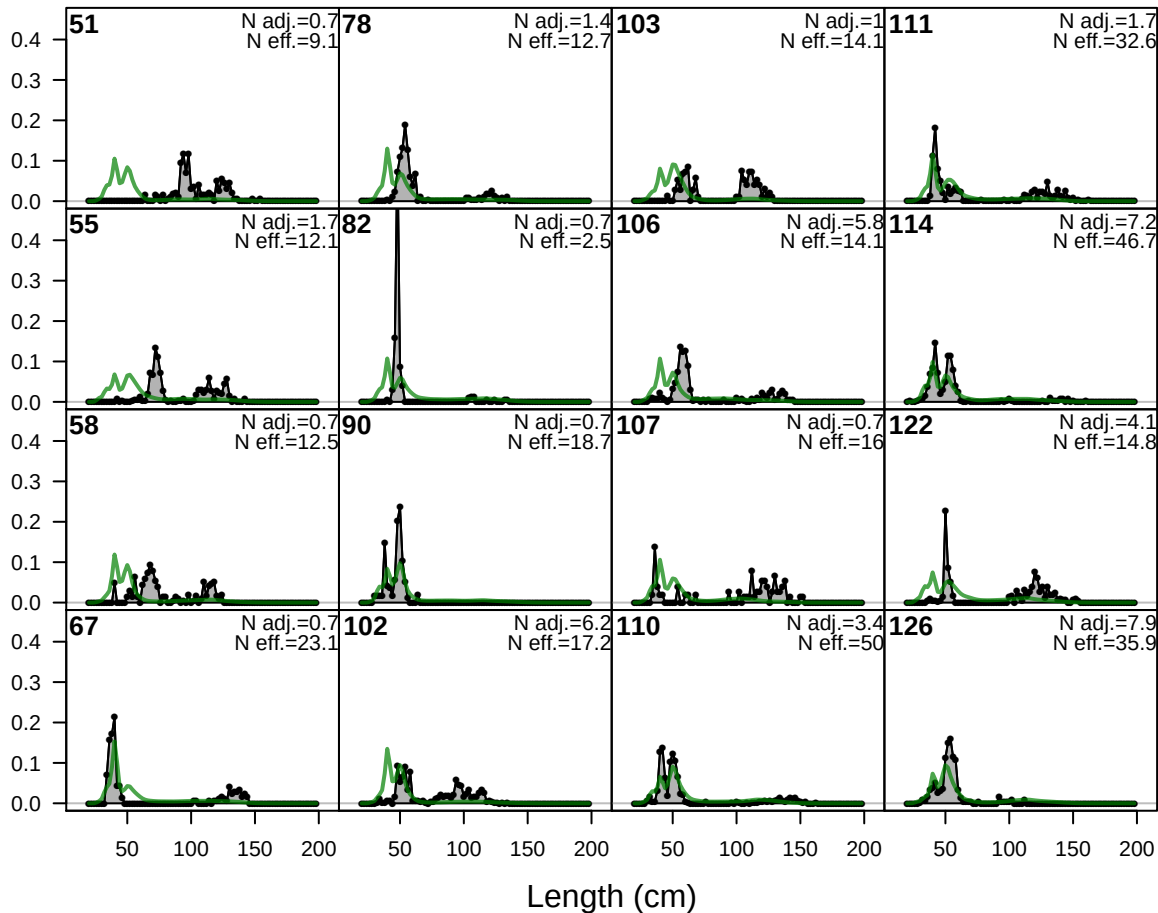


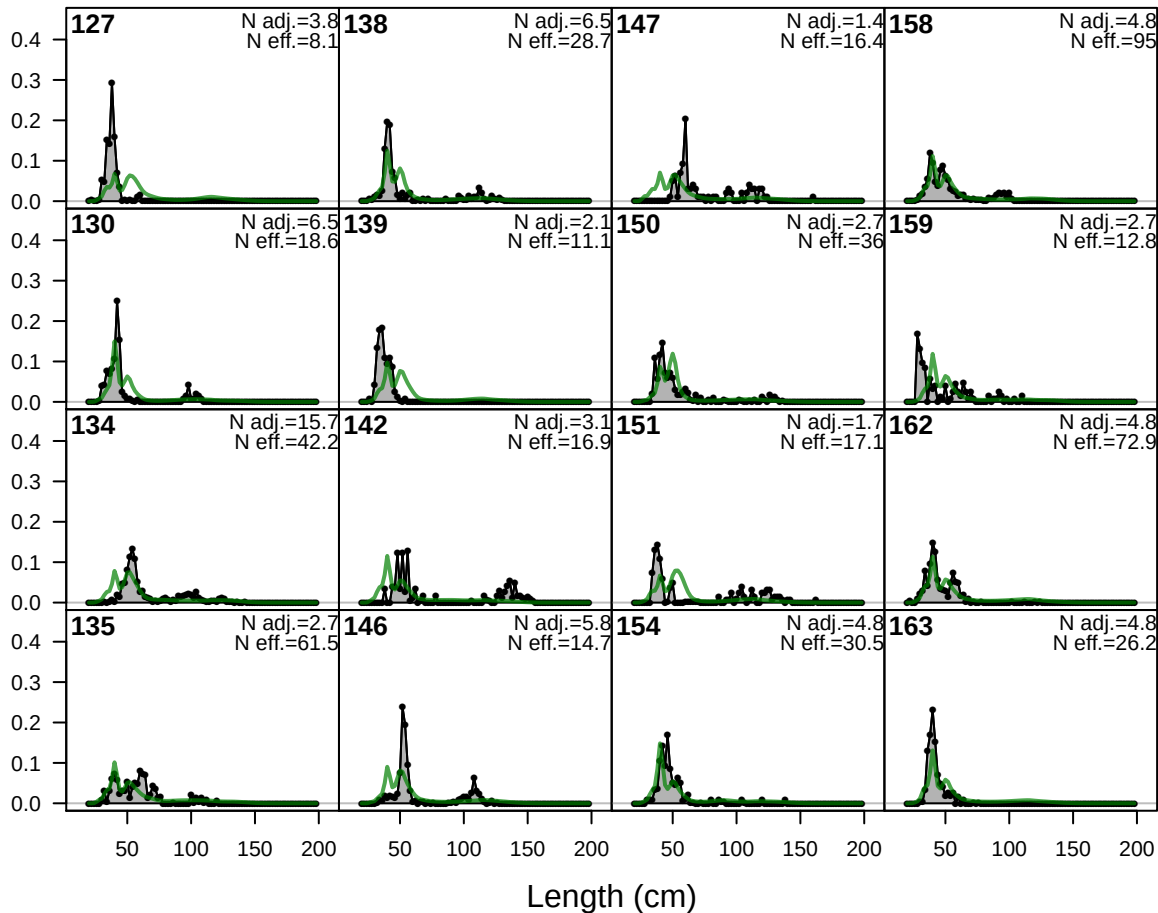
Effective sample size



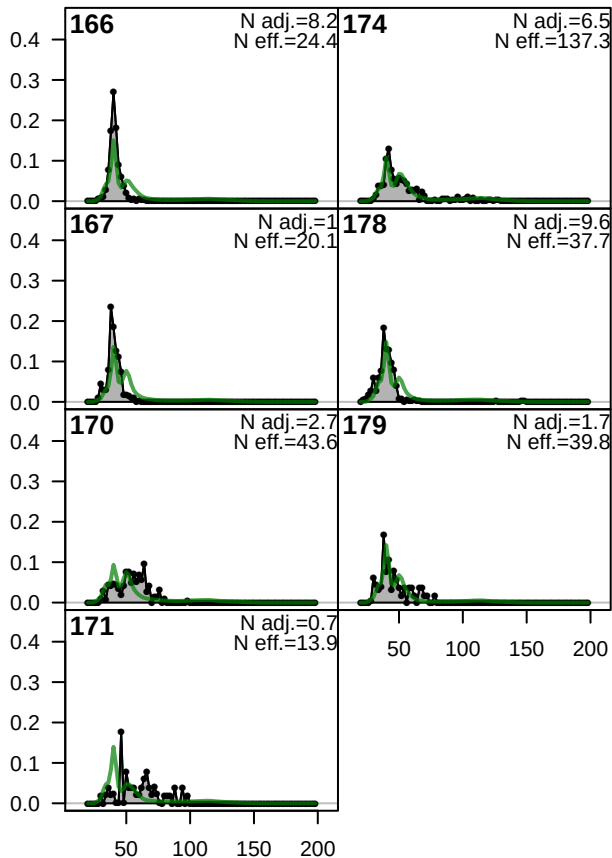
F8-OBJ\_C\_Q23 (whole catch)



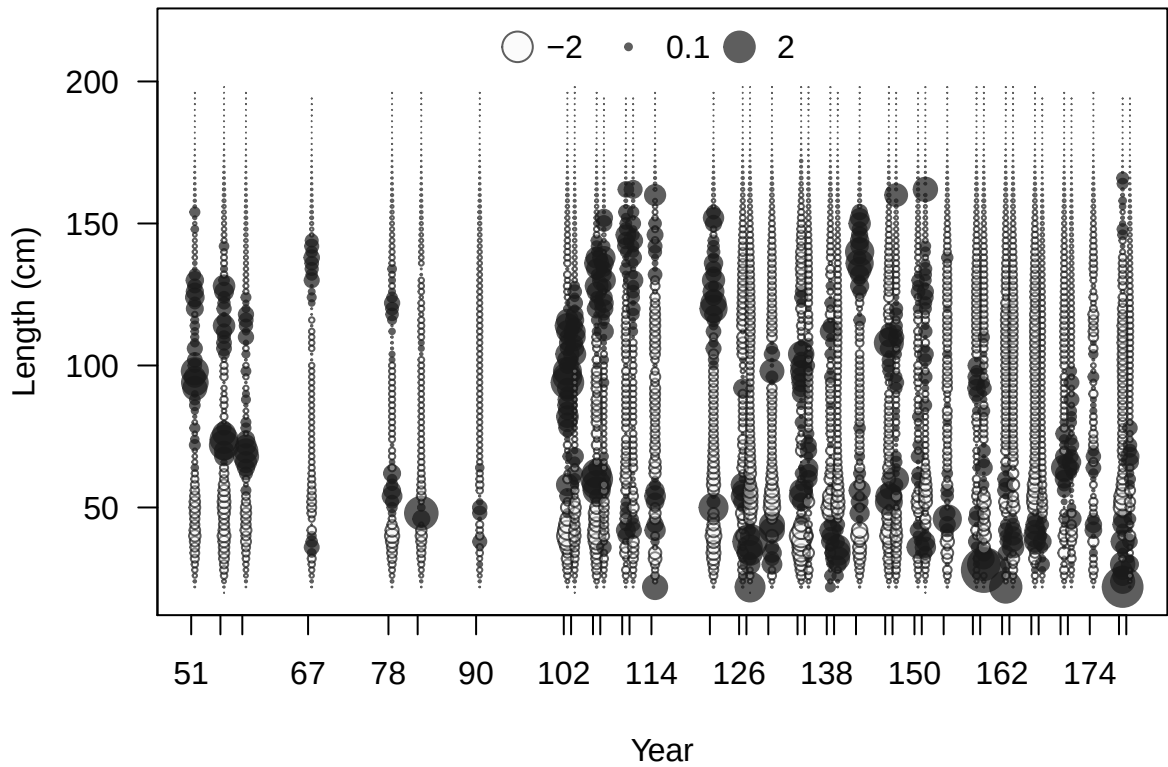




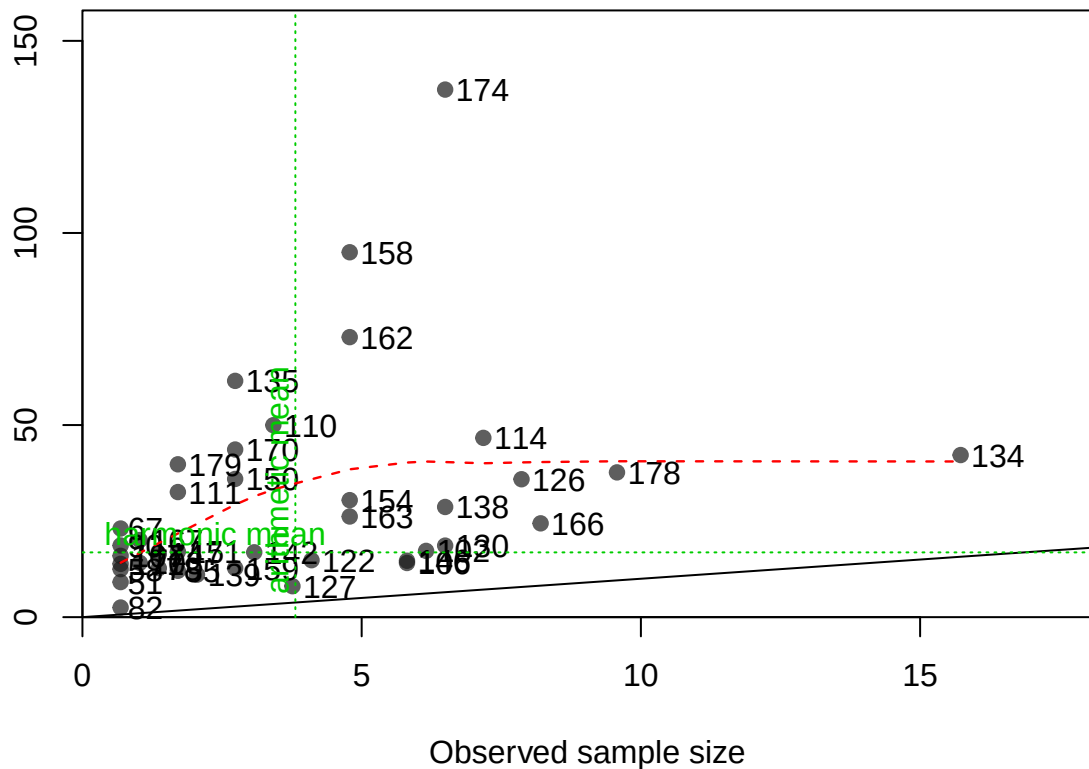
Proportion



Length (cm)

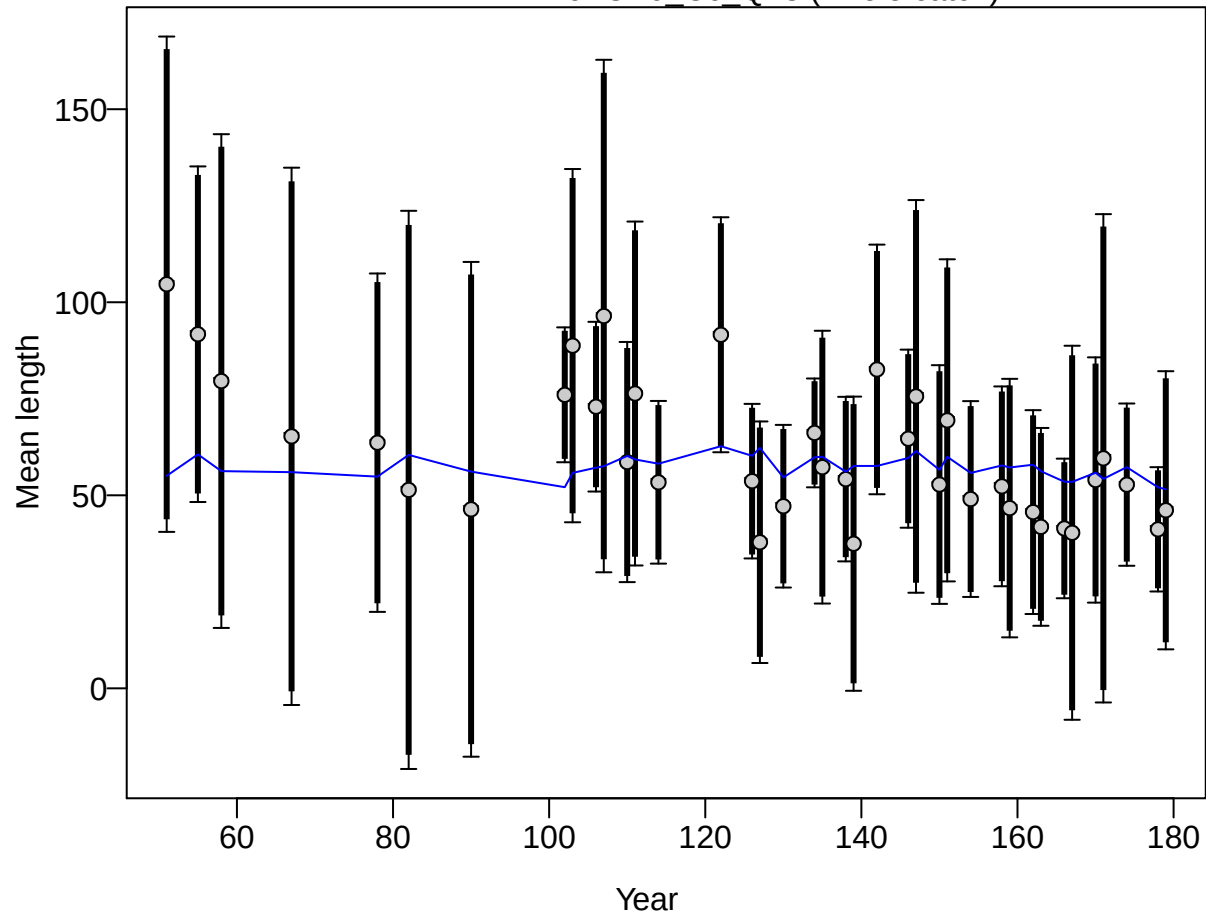


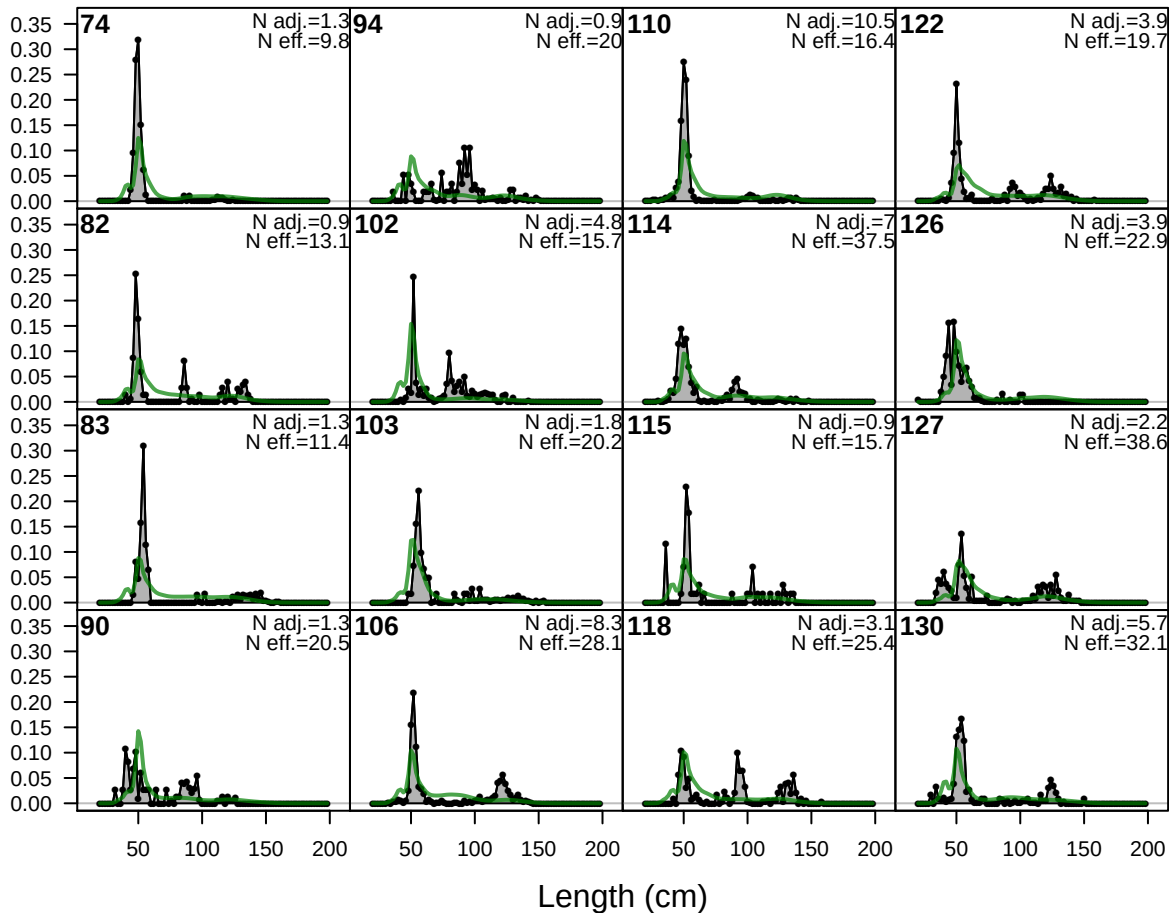
Effective sample size

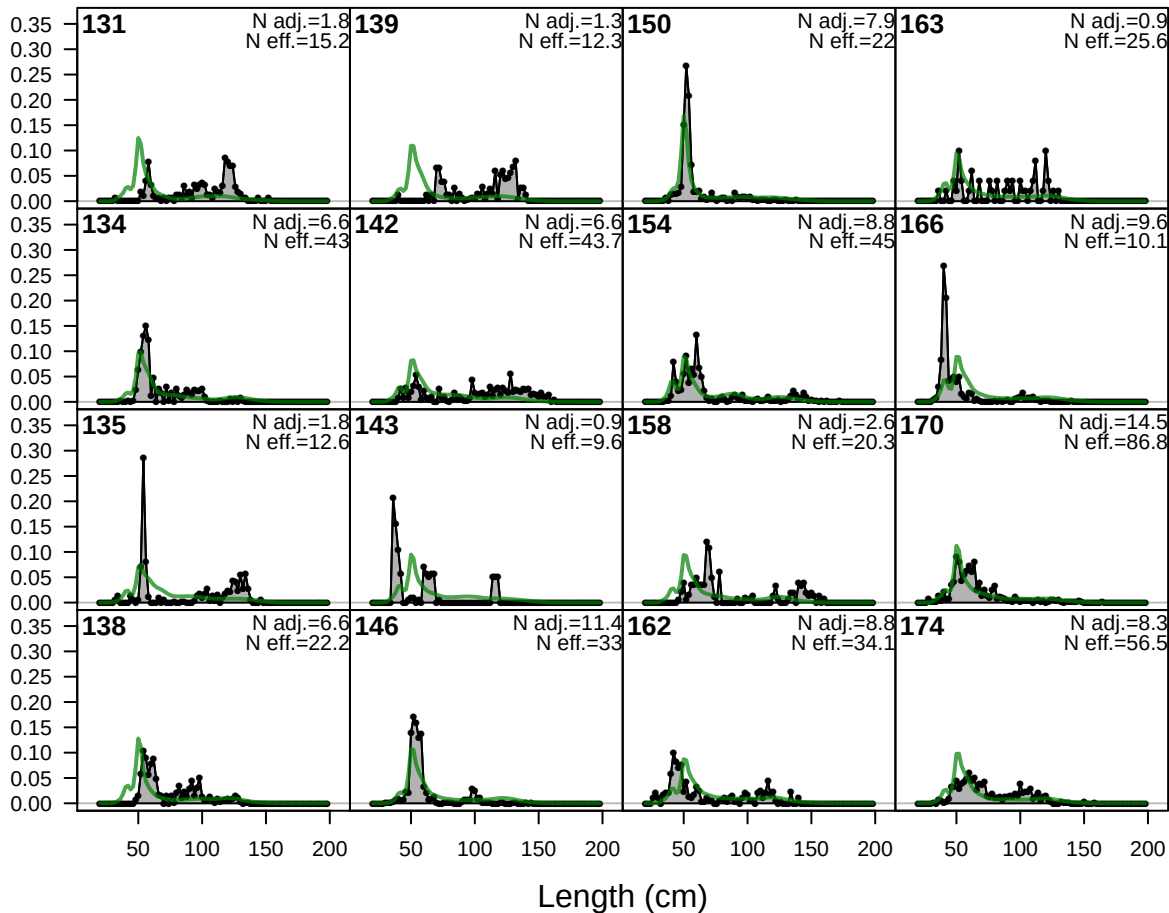




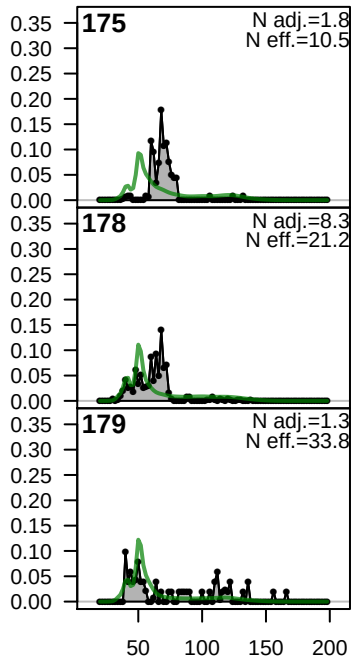
F9-OBJ Cc Q23 (whole catch)



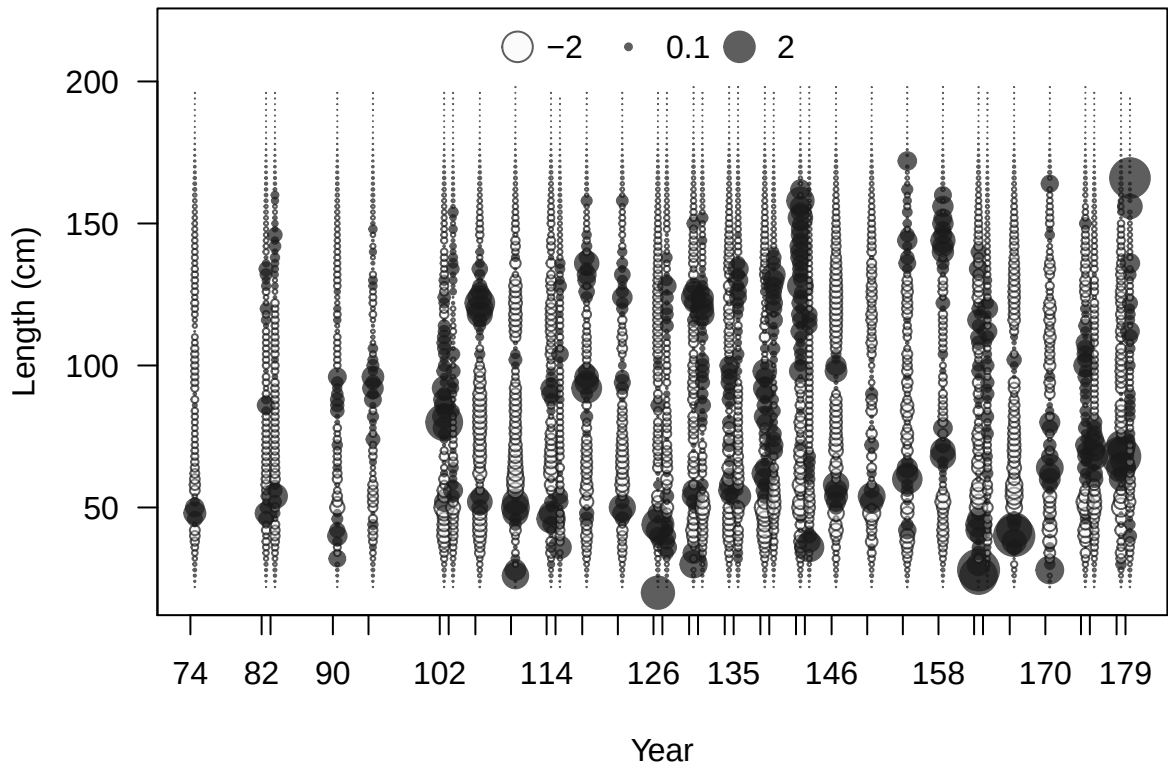




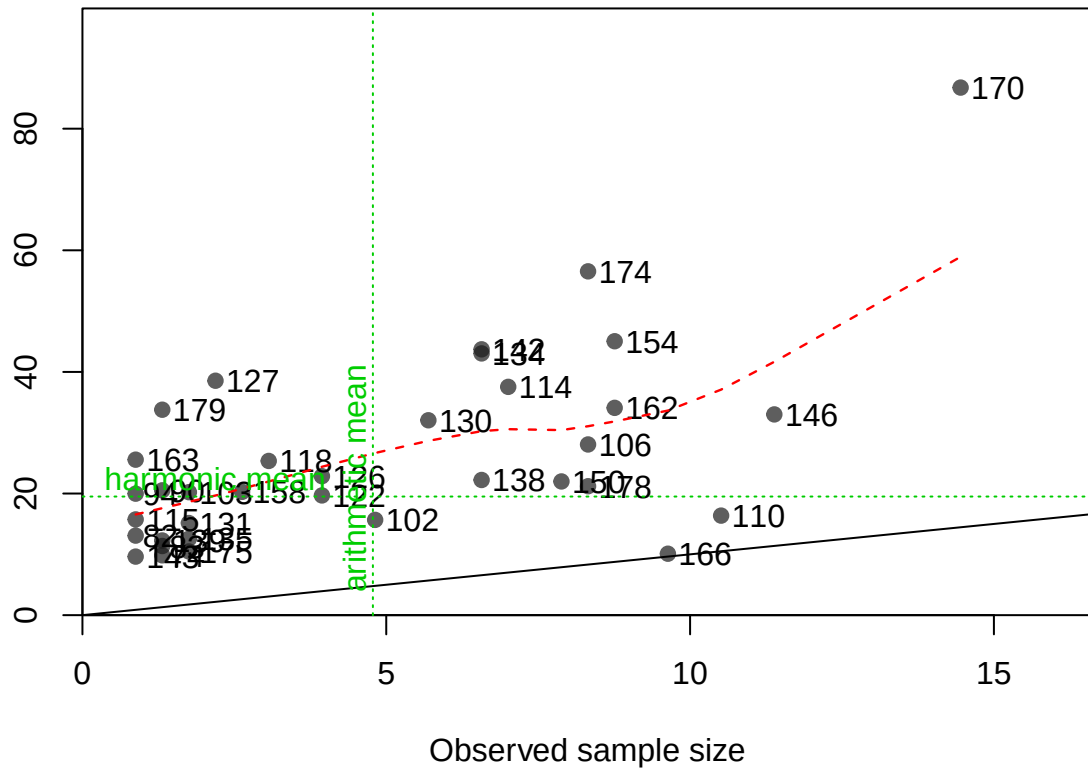
Proportion



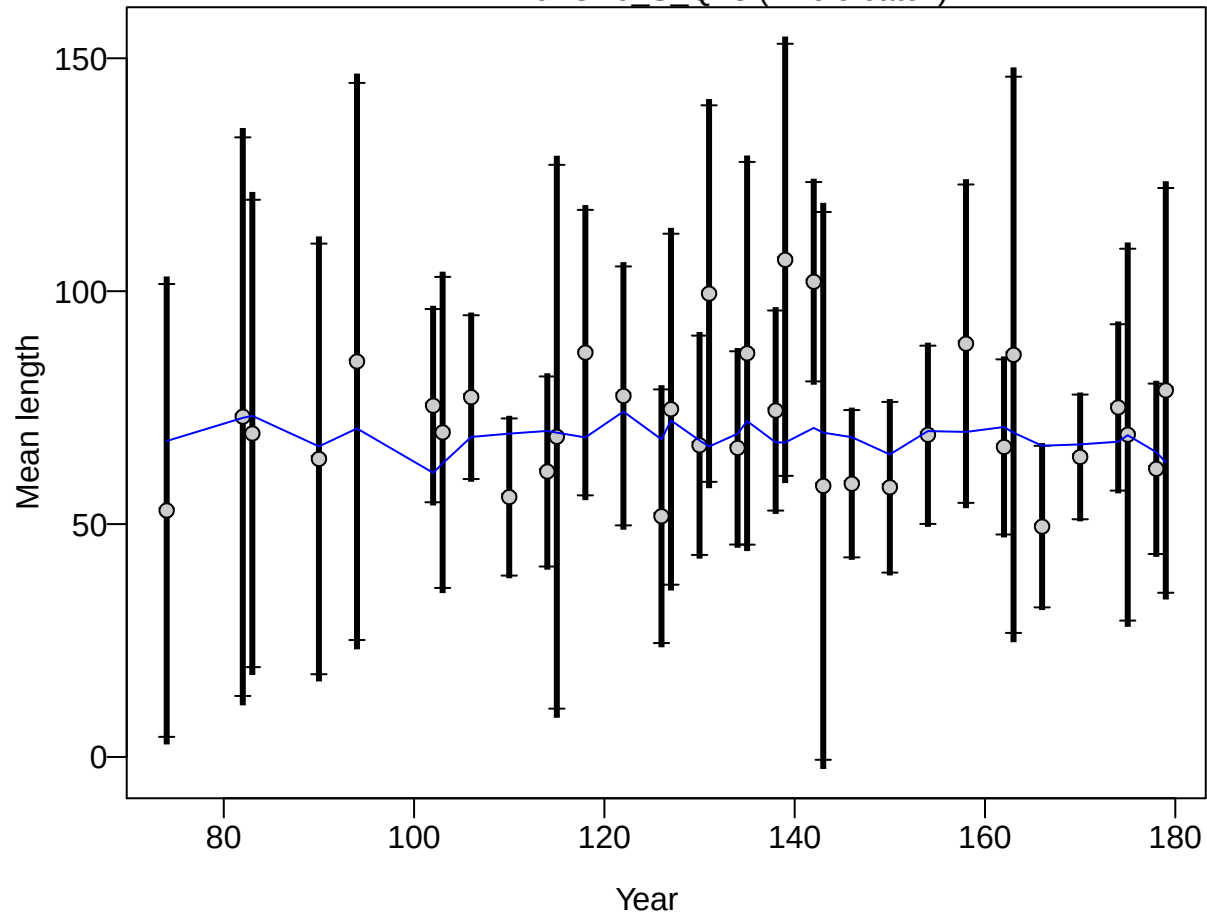
Length (cm)

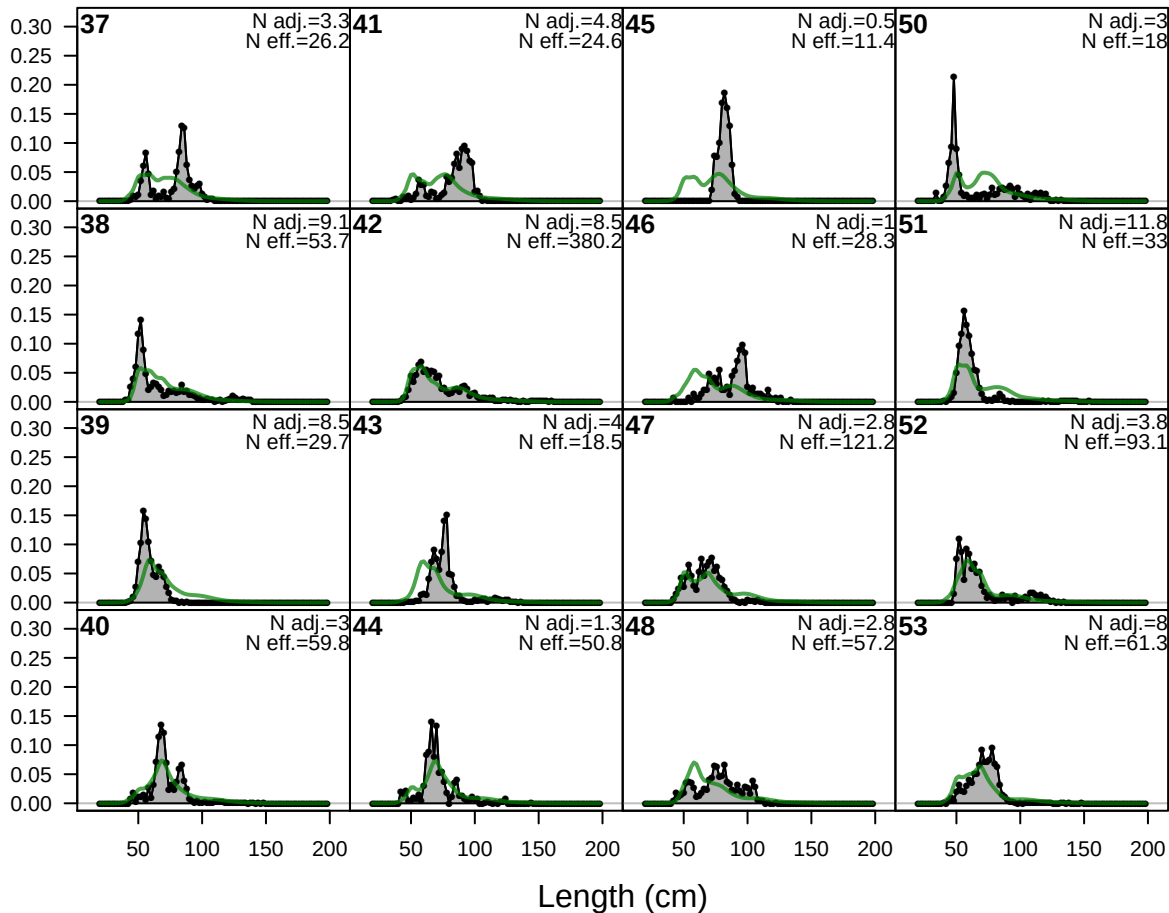


Effective sample size

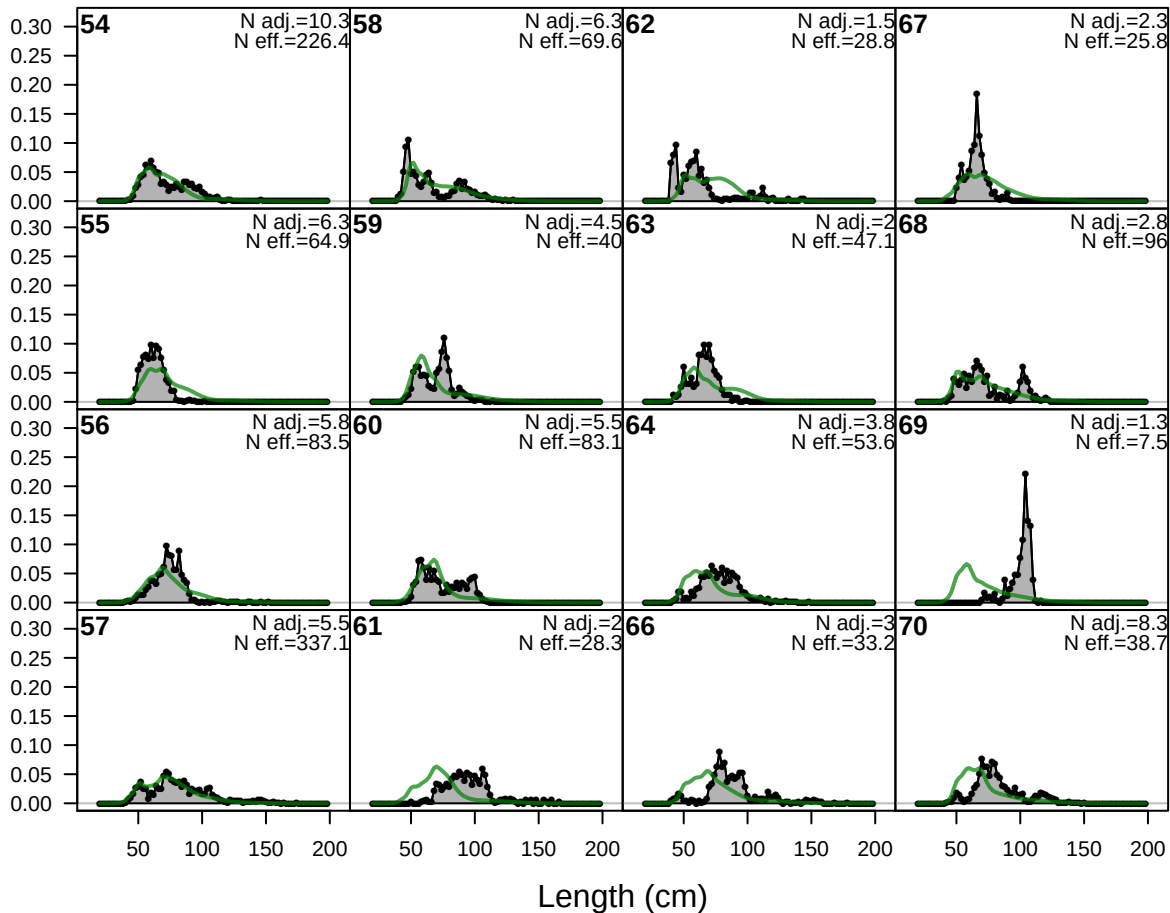


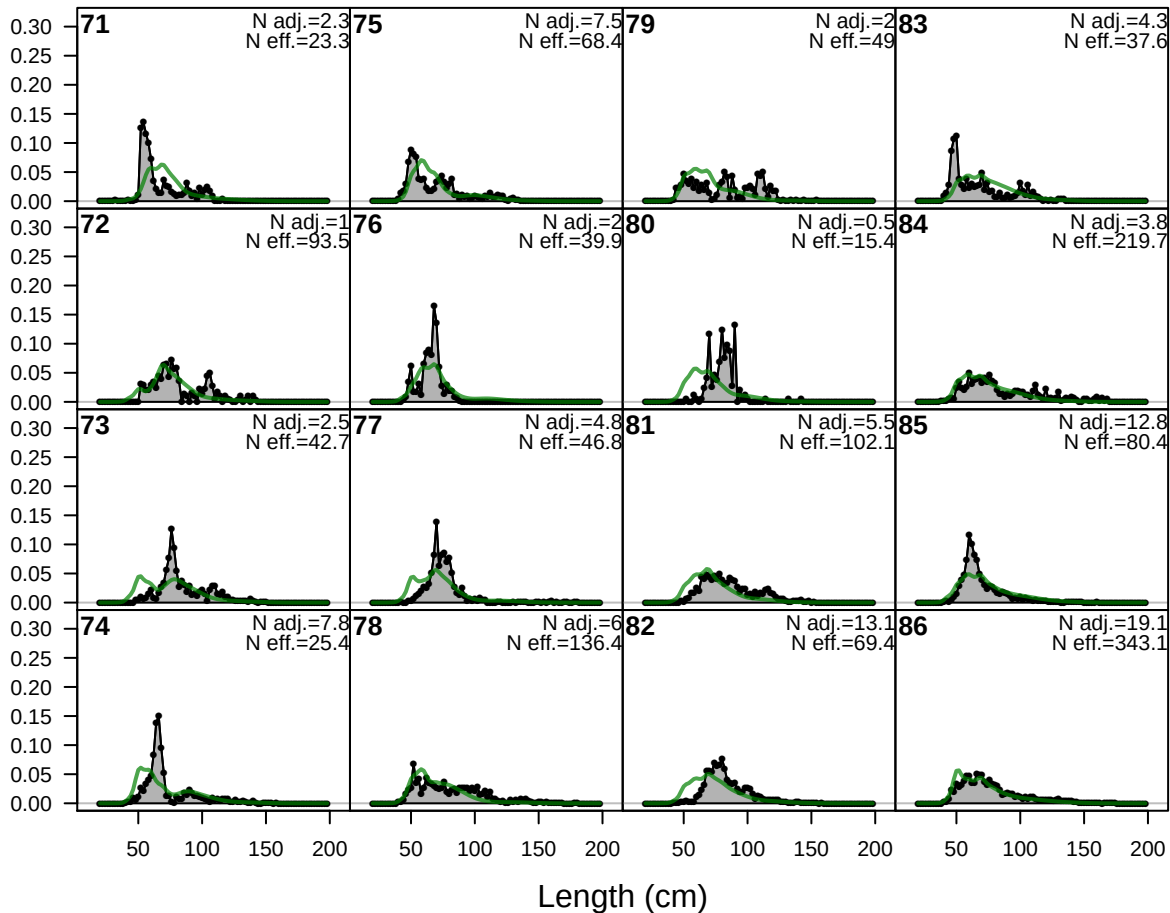
F10-OBJ\_S\_Q23 (whole catch)

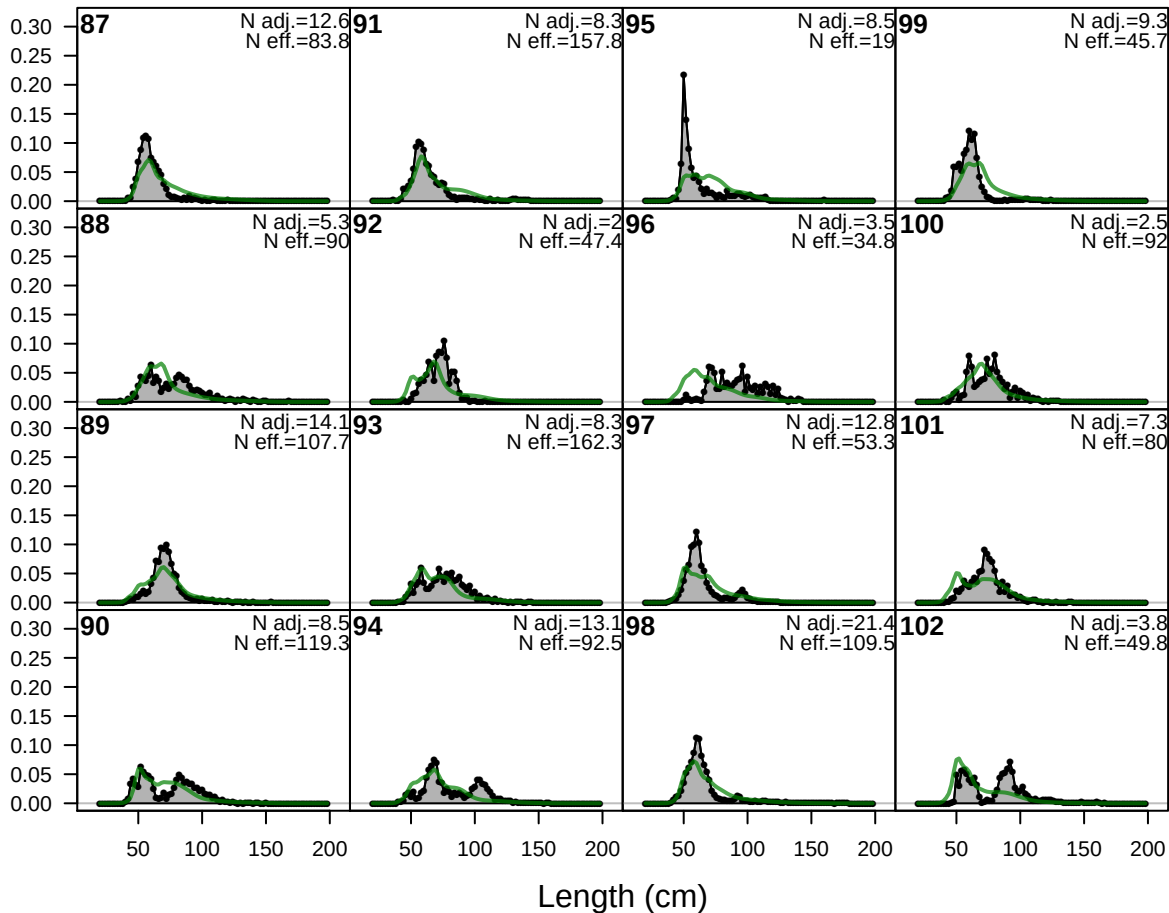


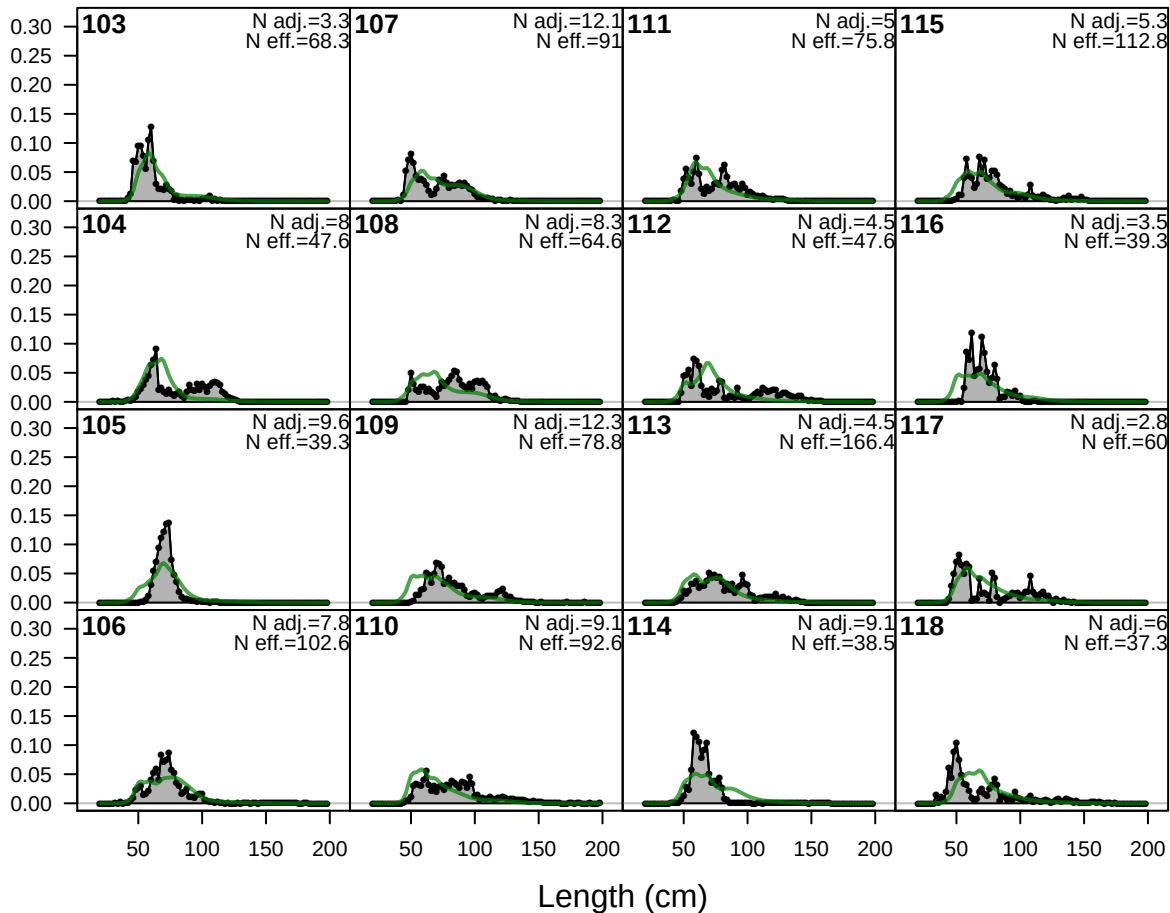


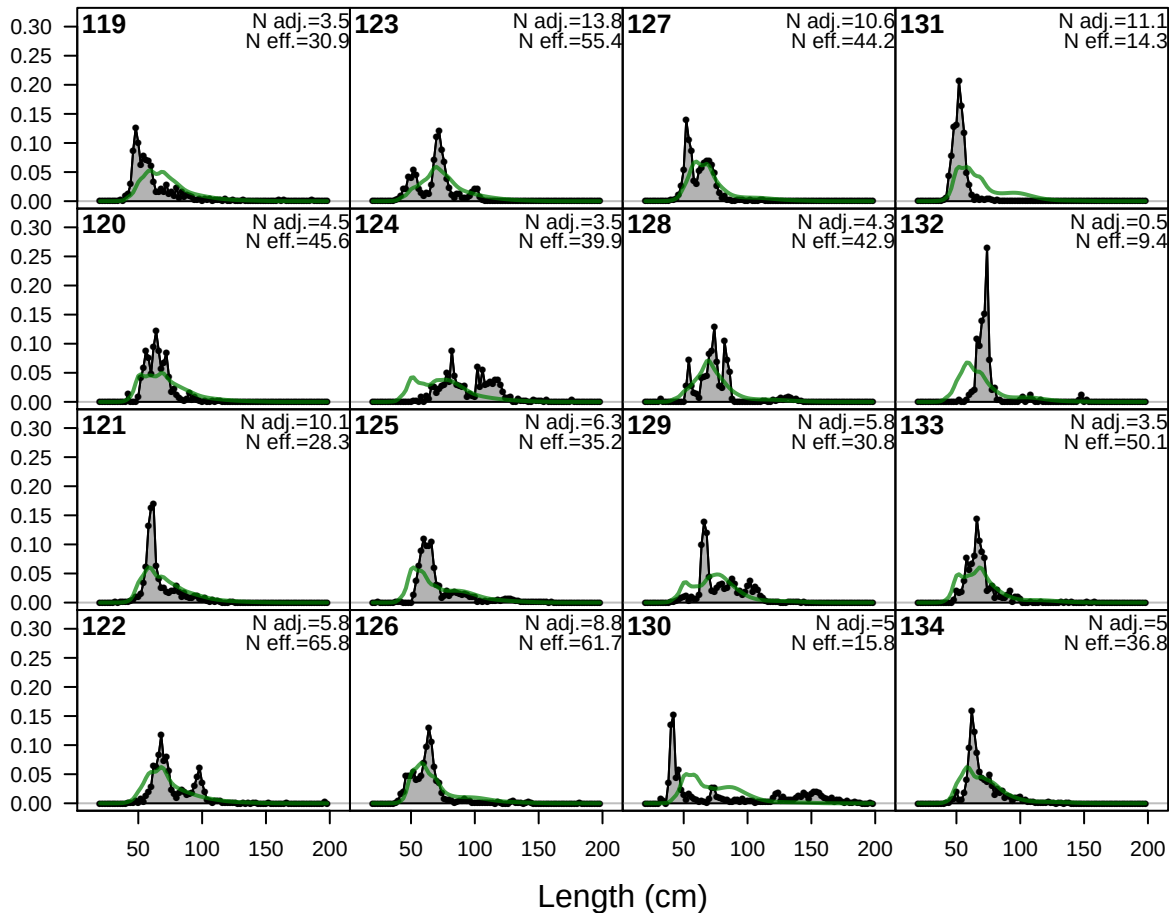


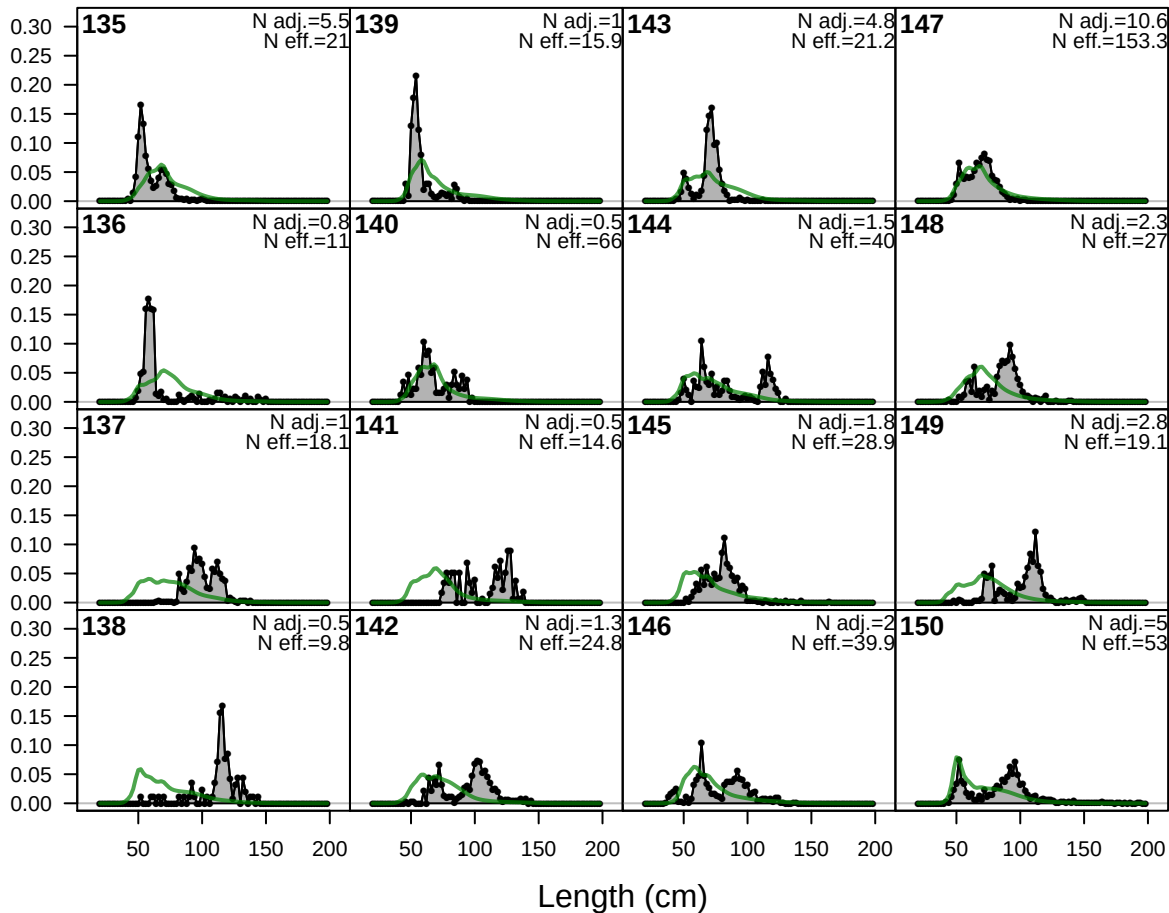


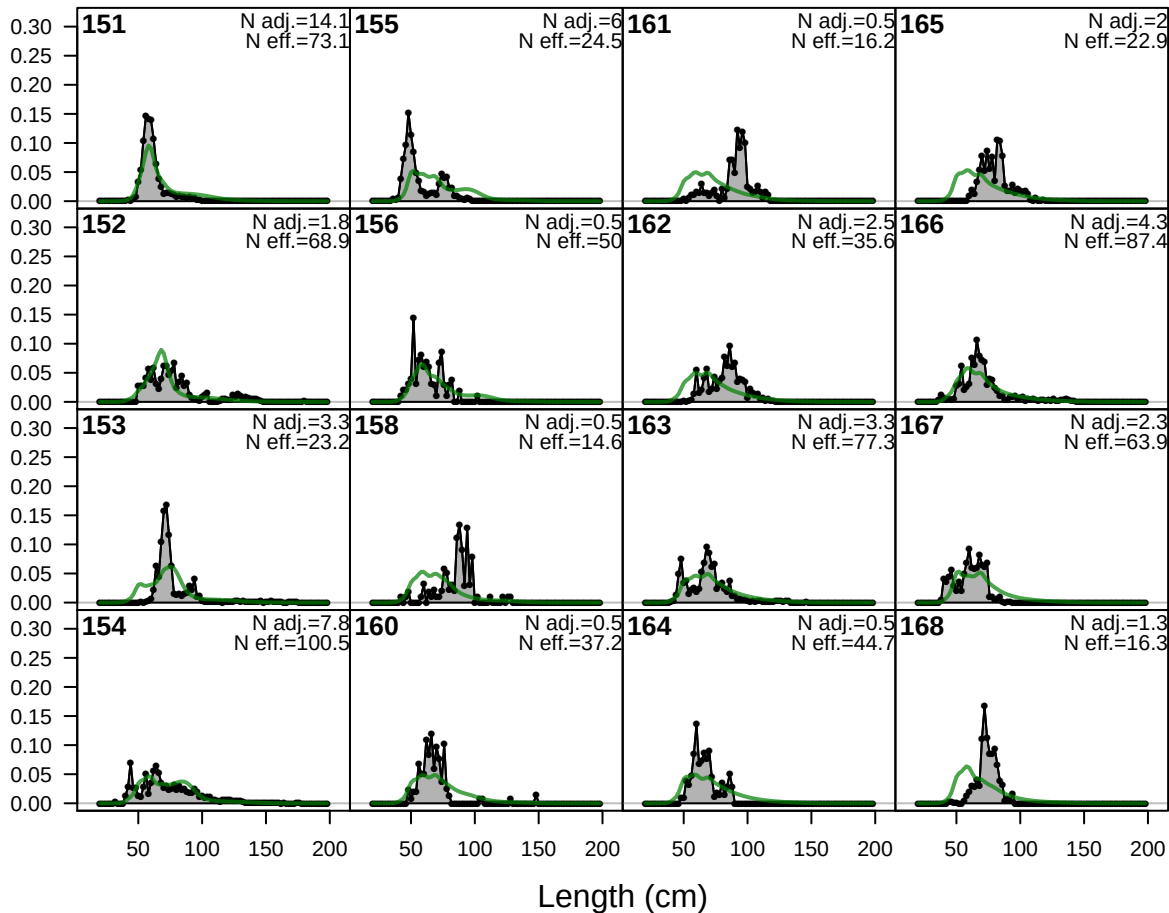




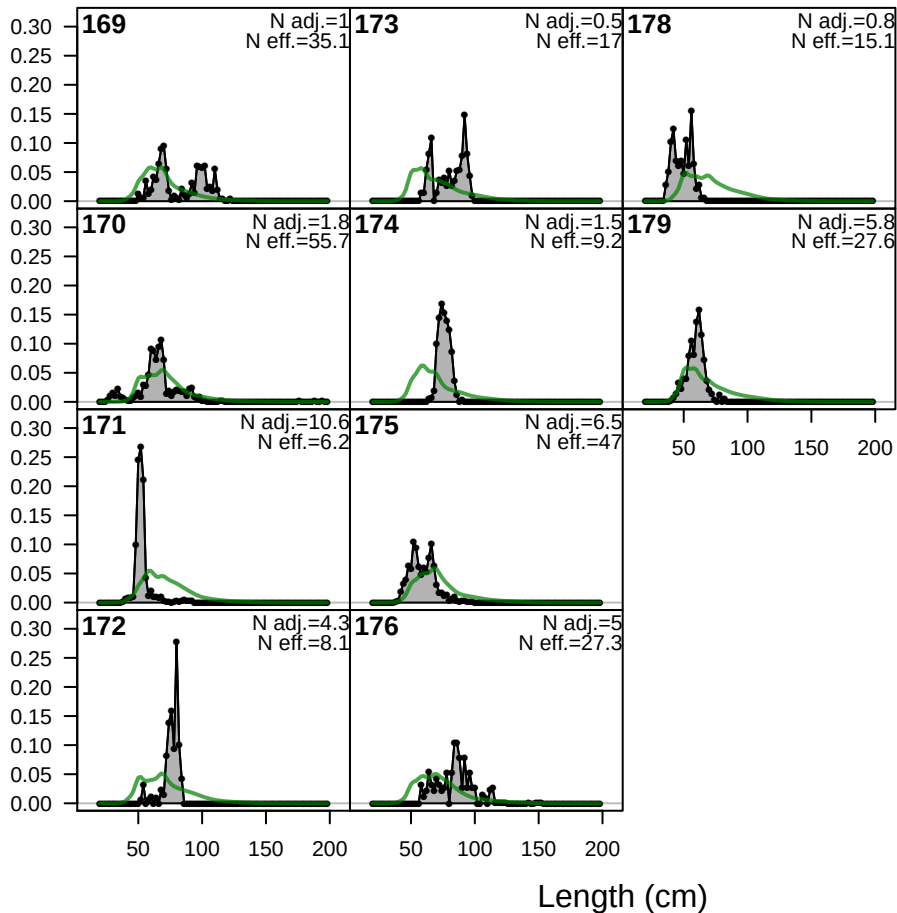




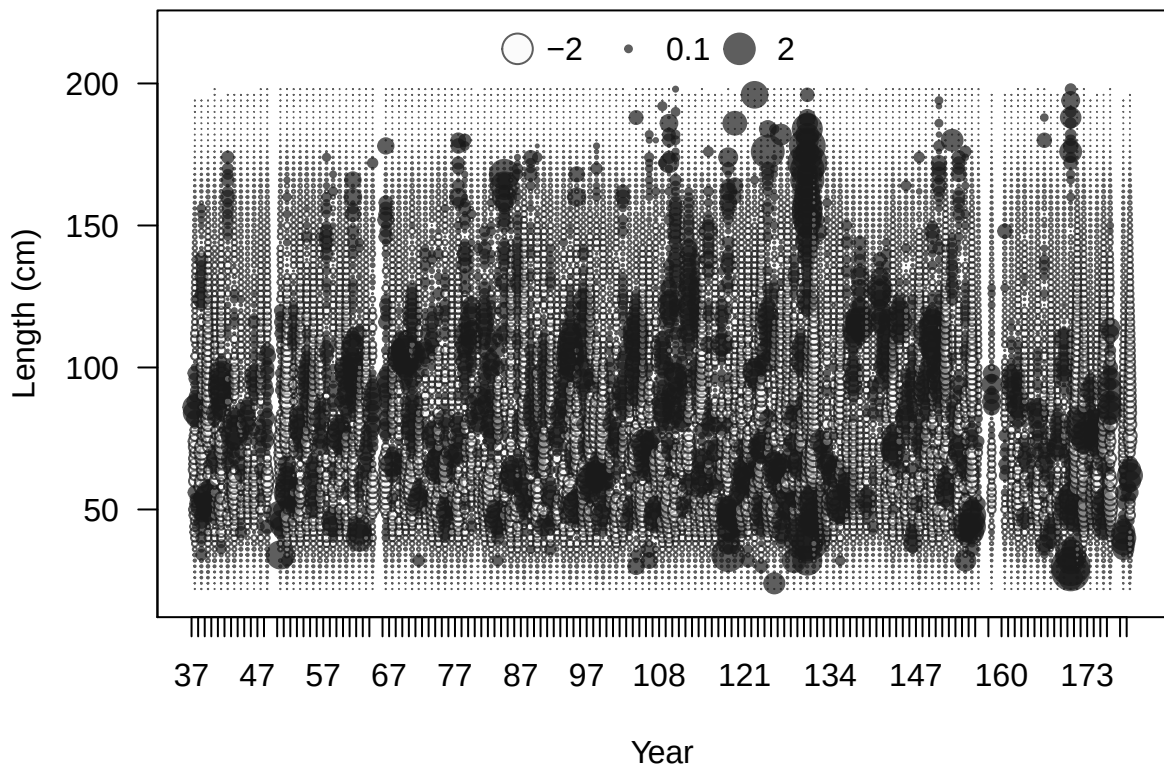




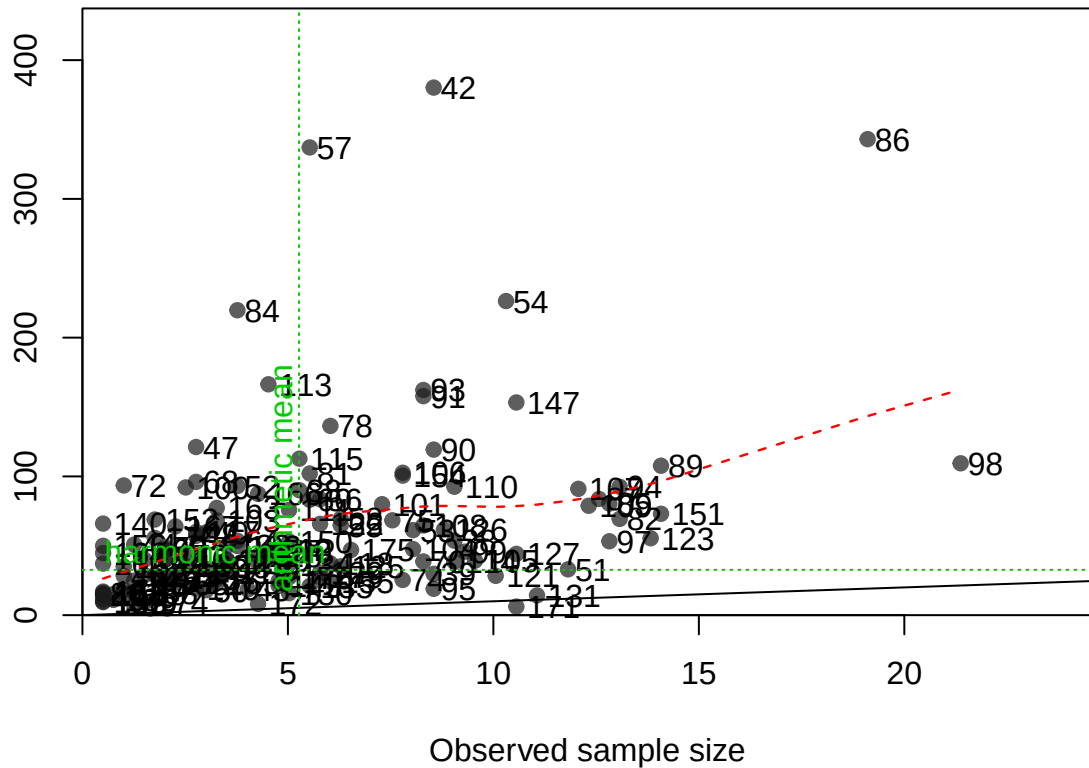
Proportion



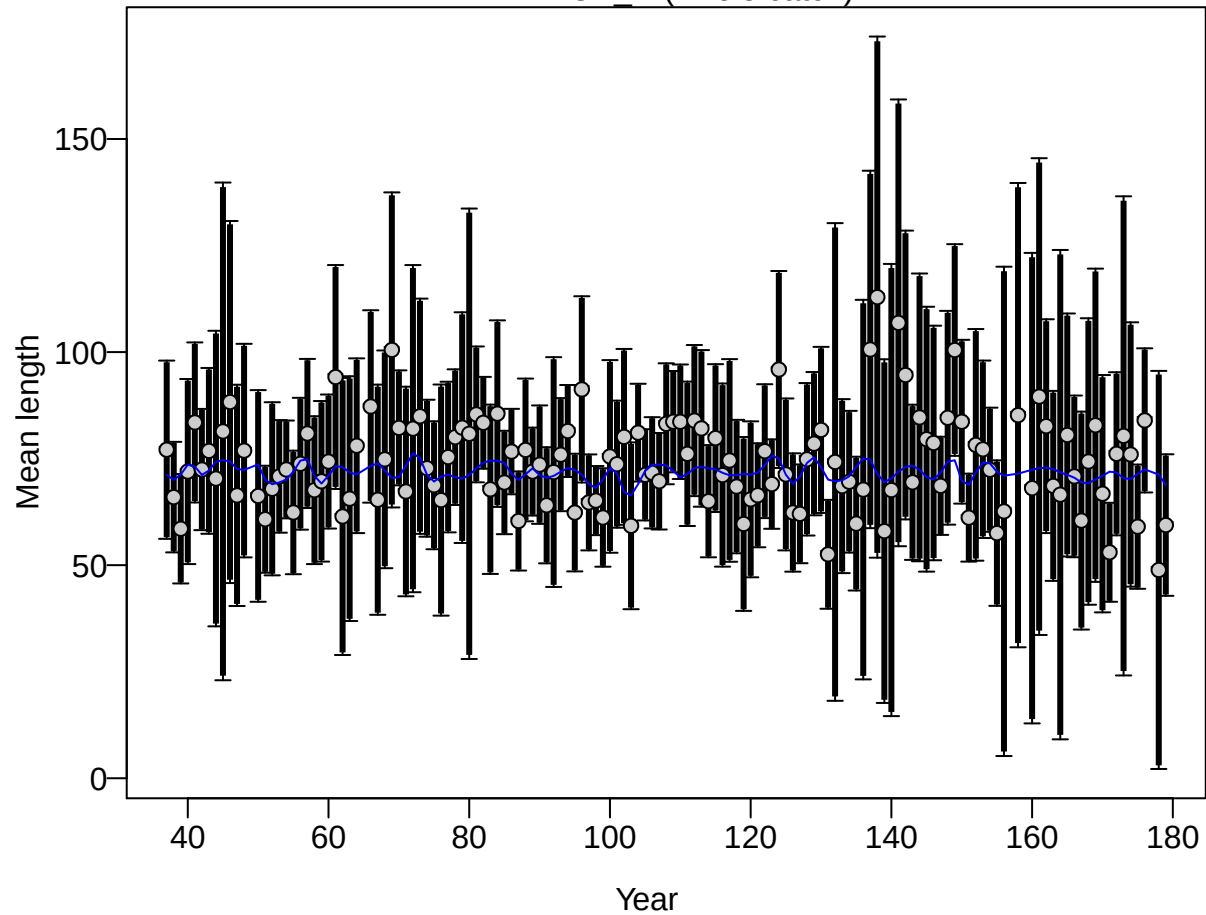


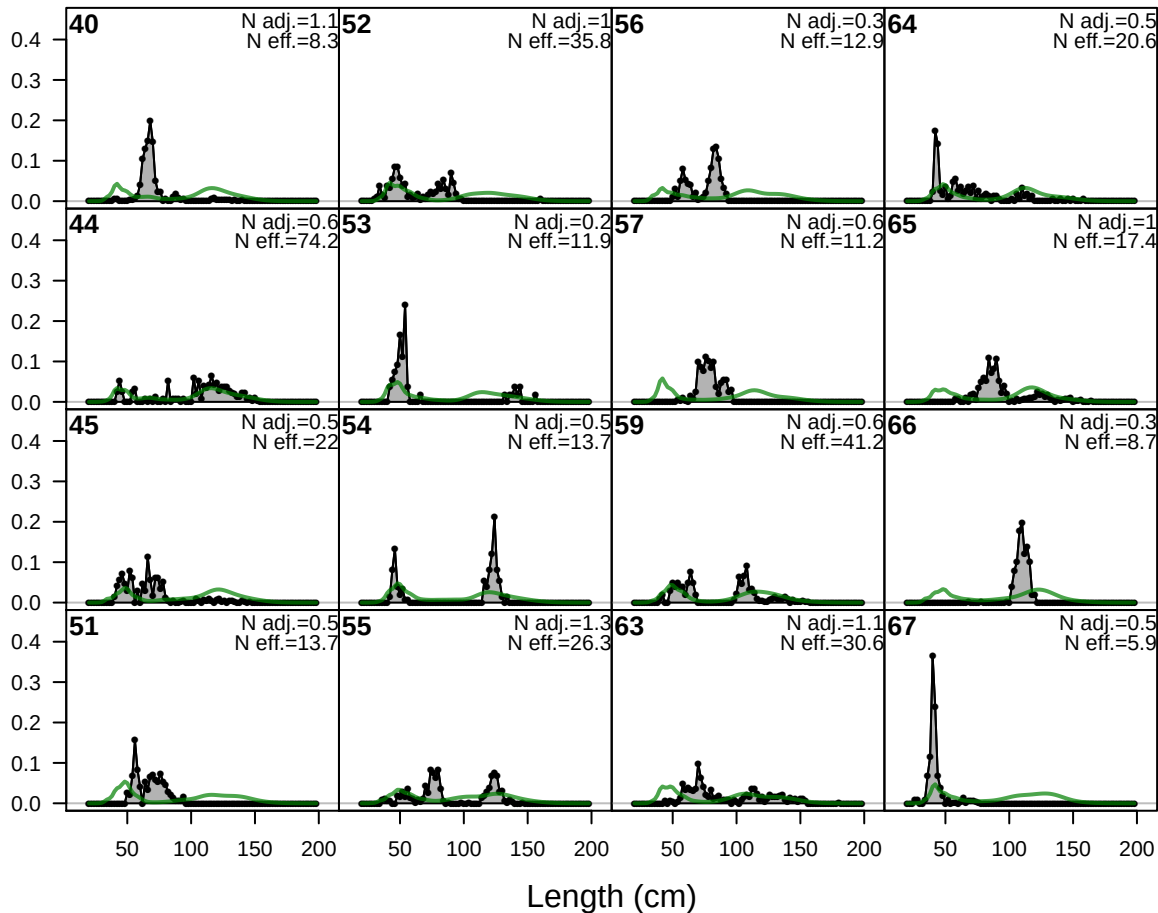


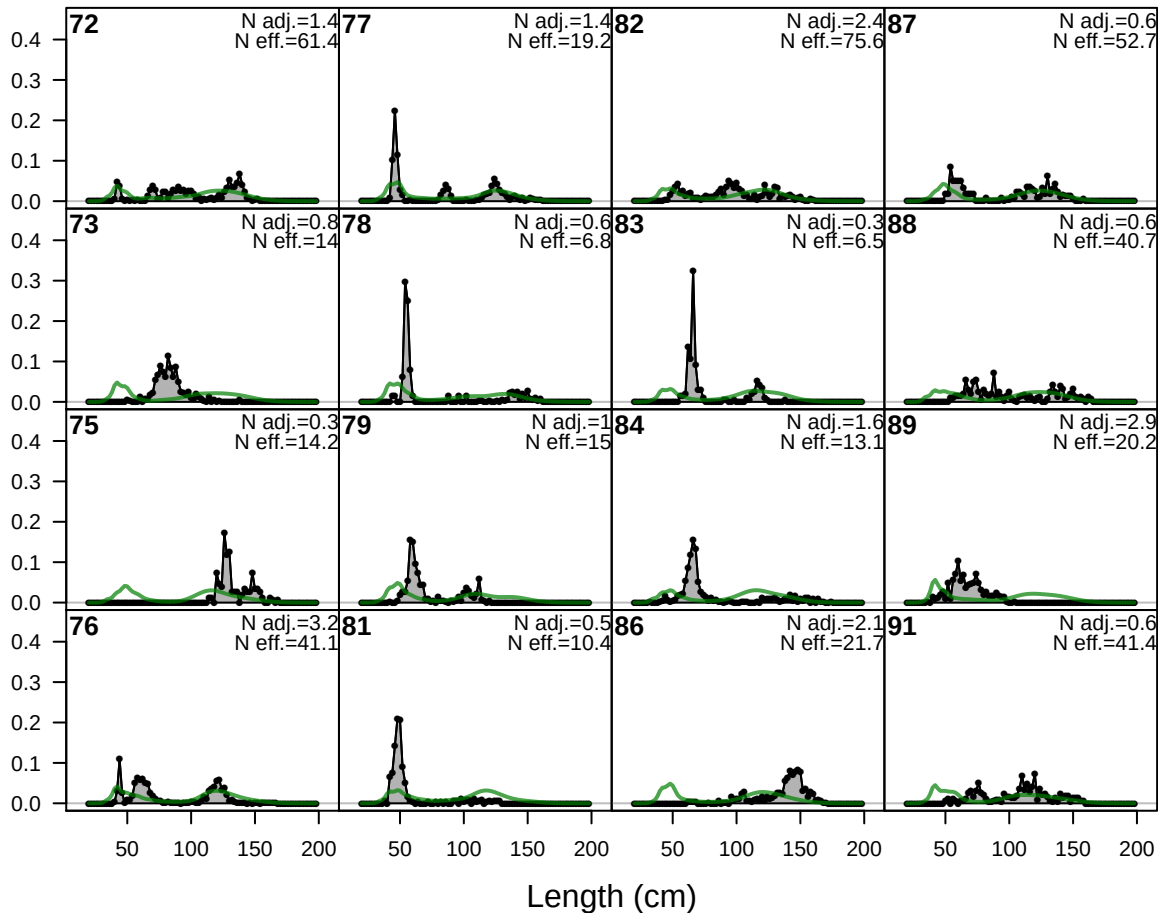
Effective sample size

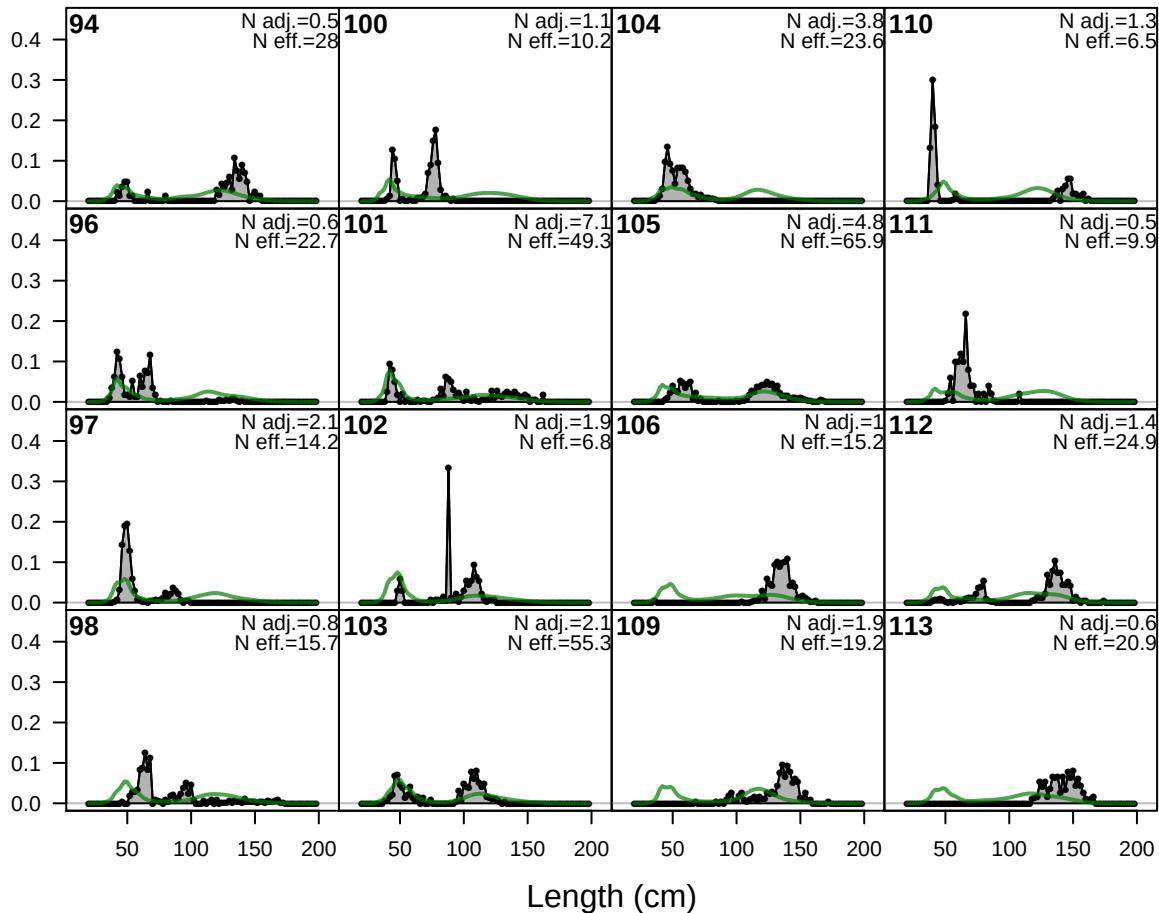


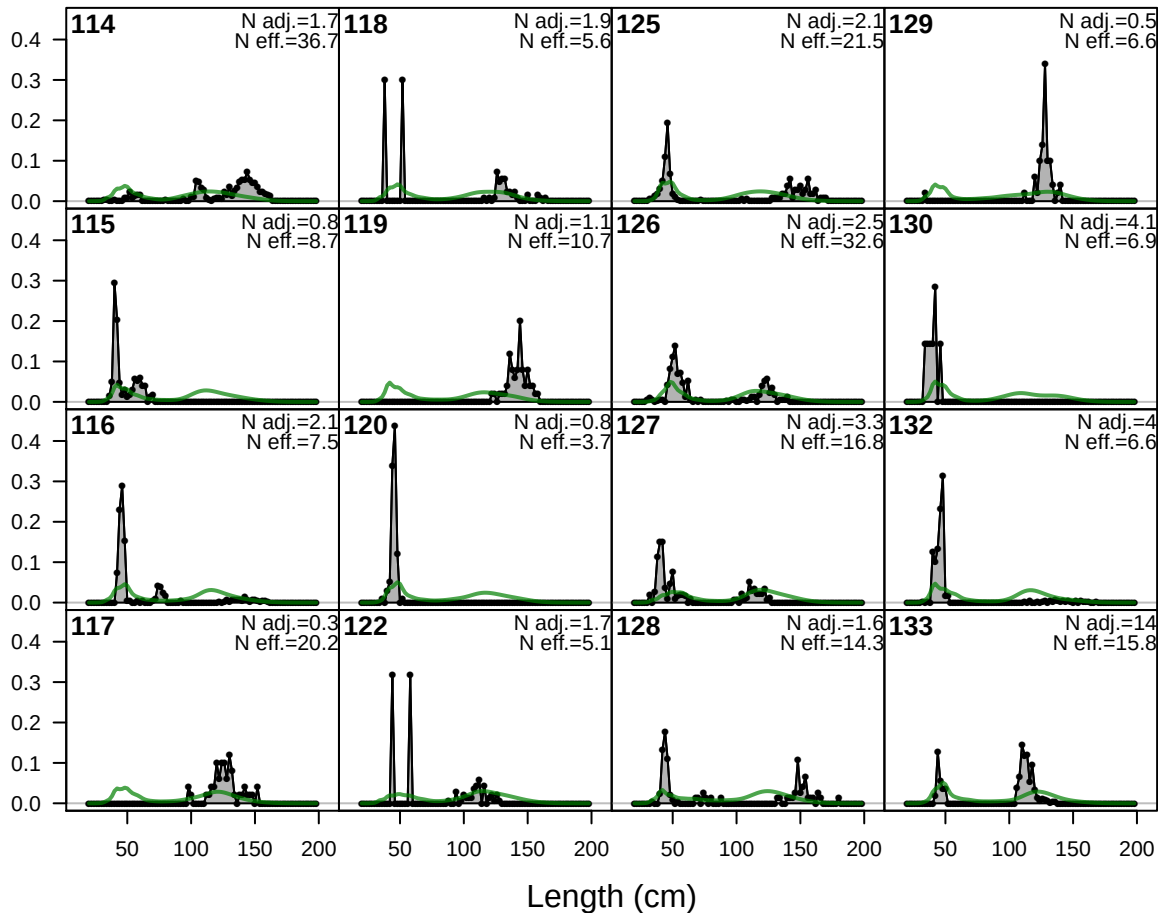
F11-NOA\_N (whole catch)

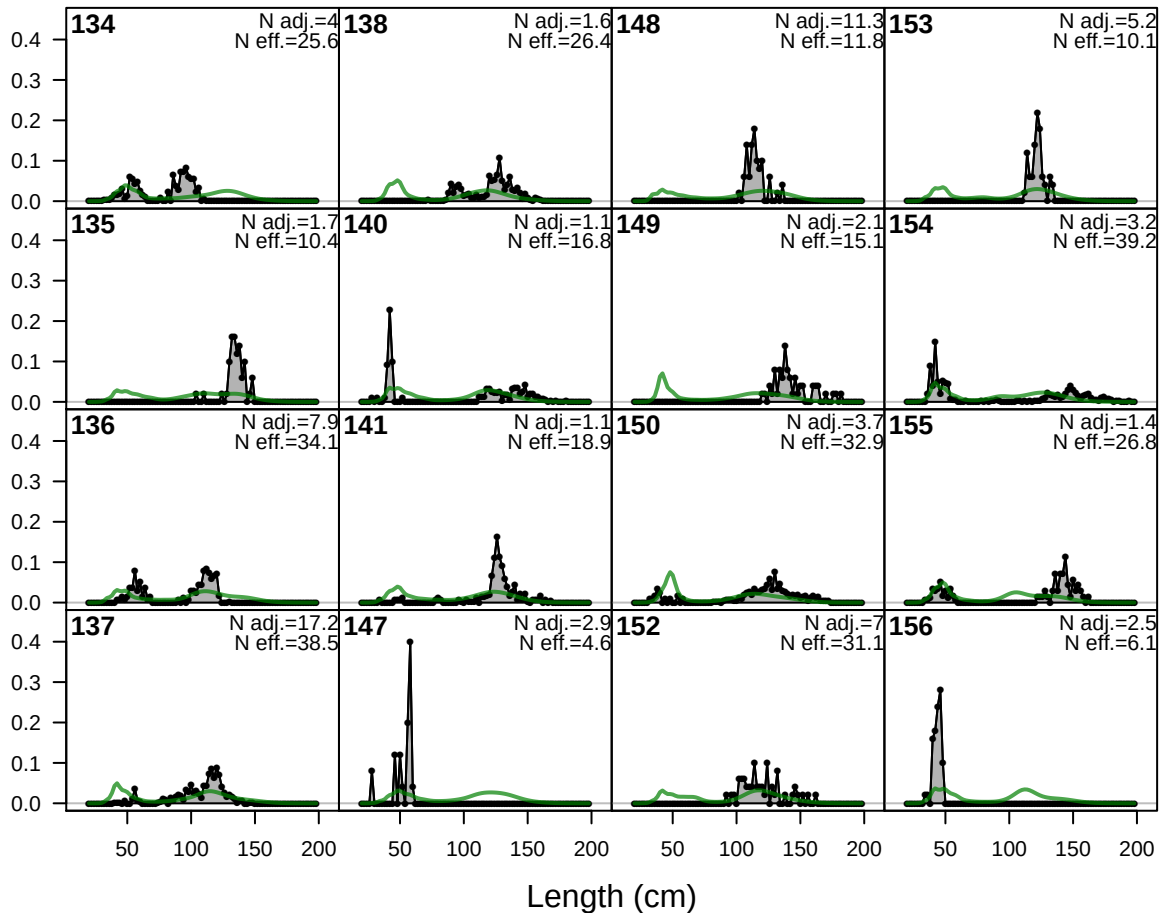




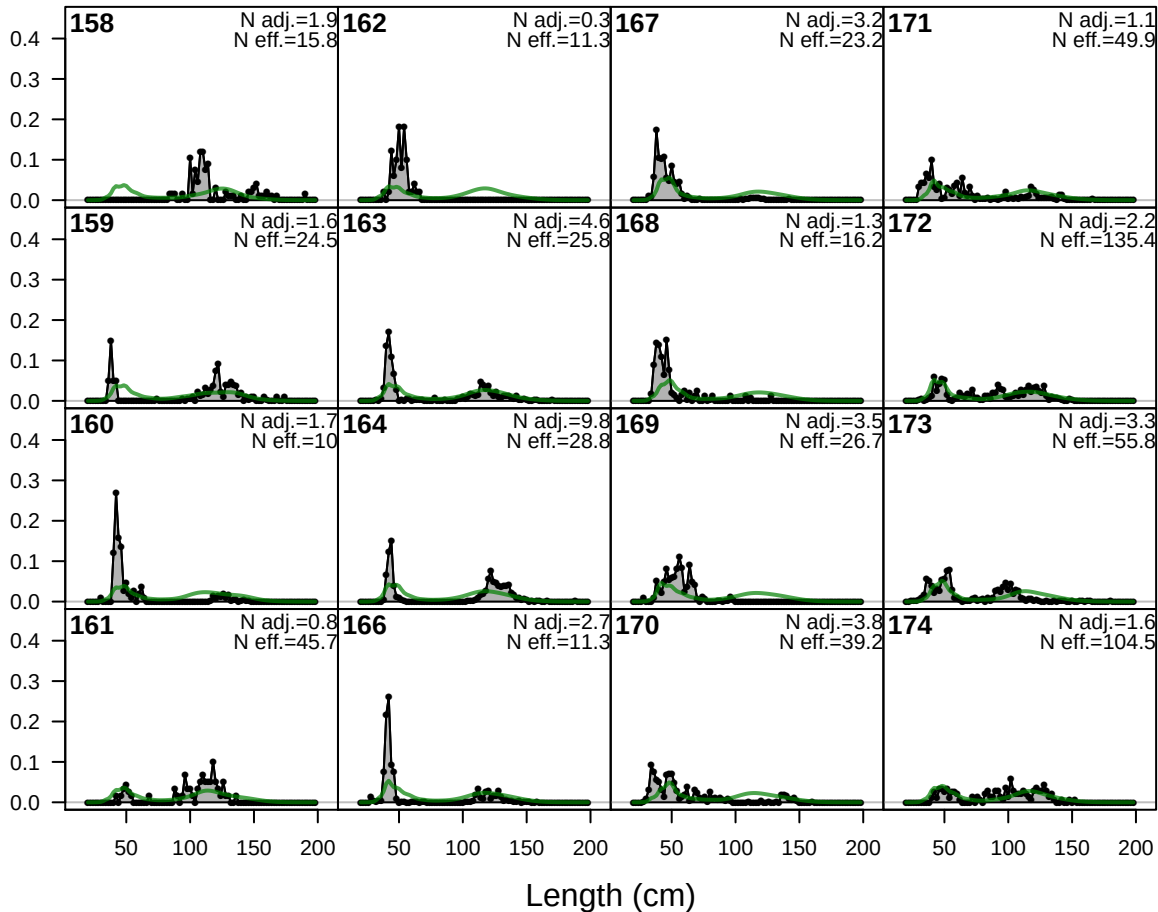




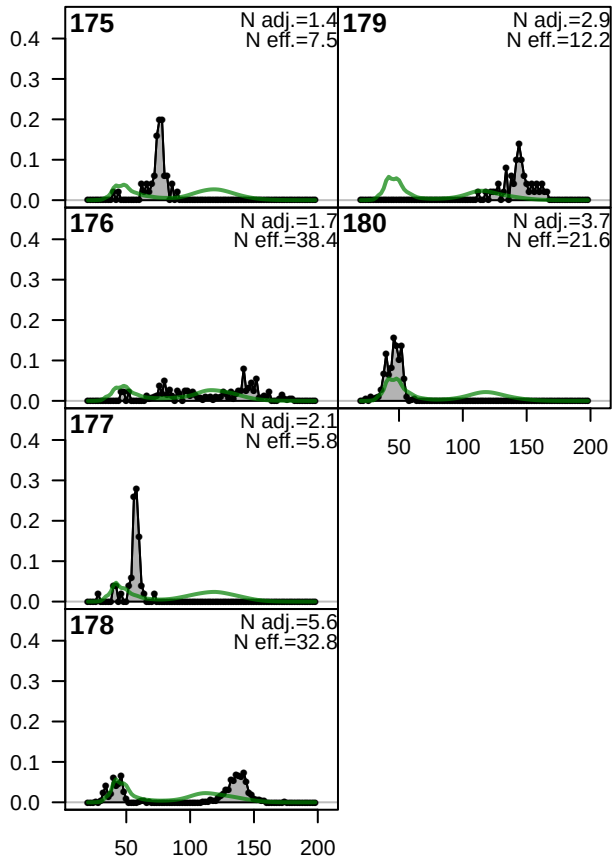




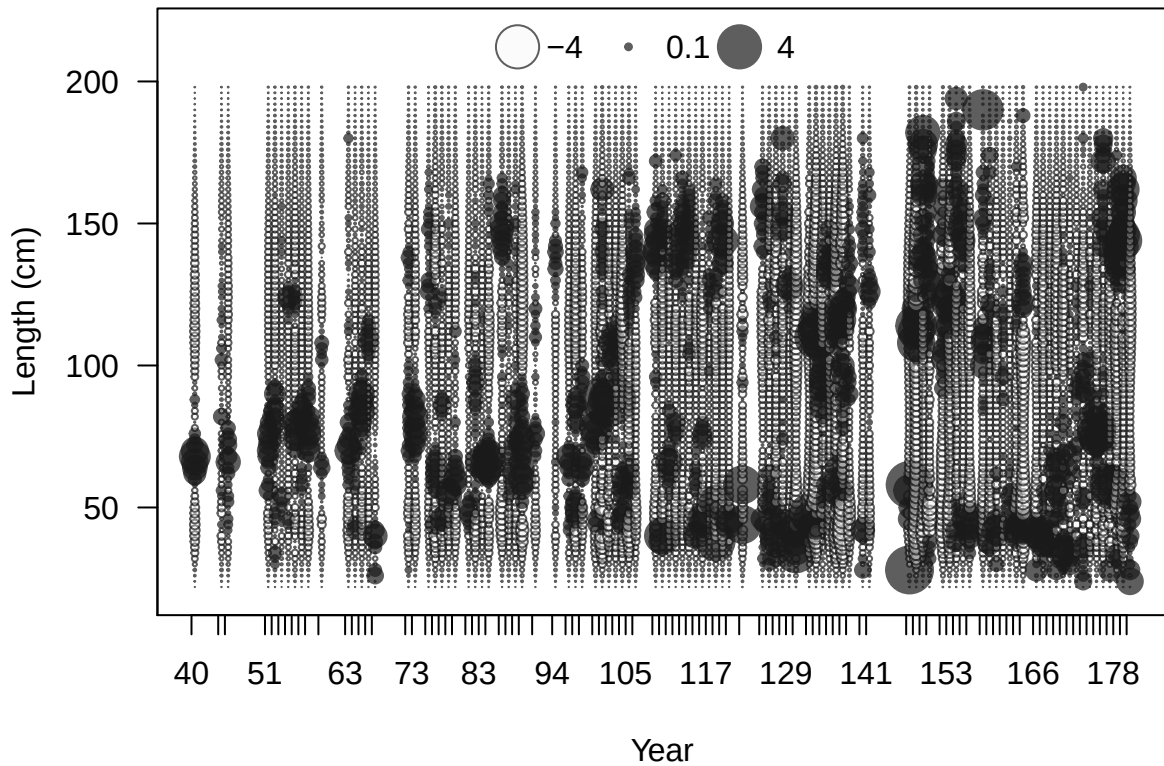




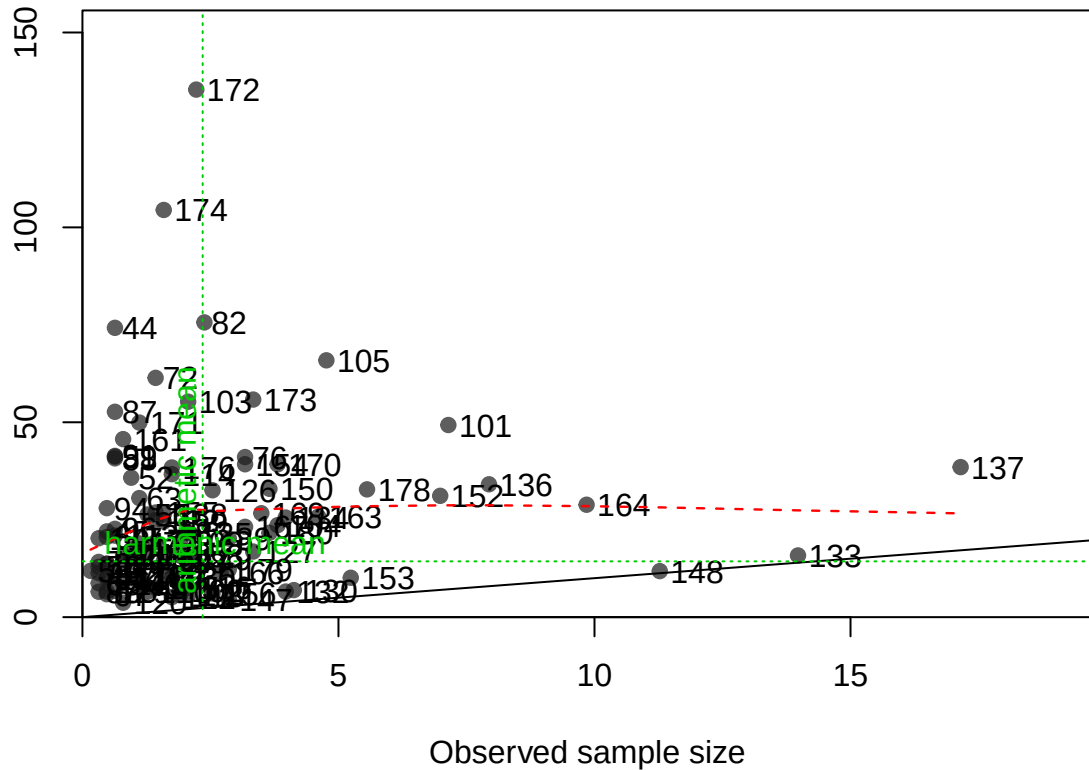
Proportion



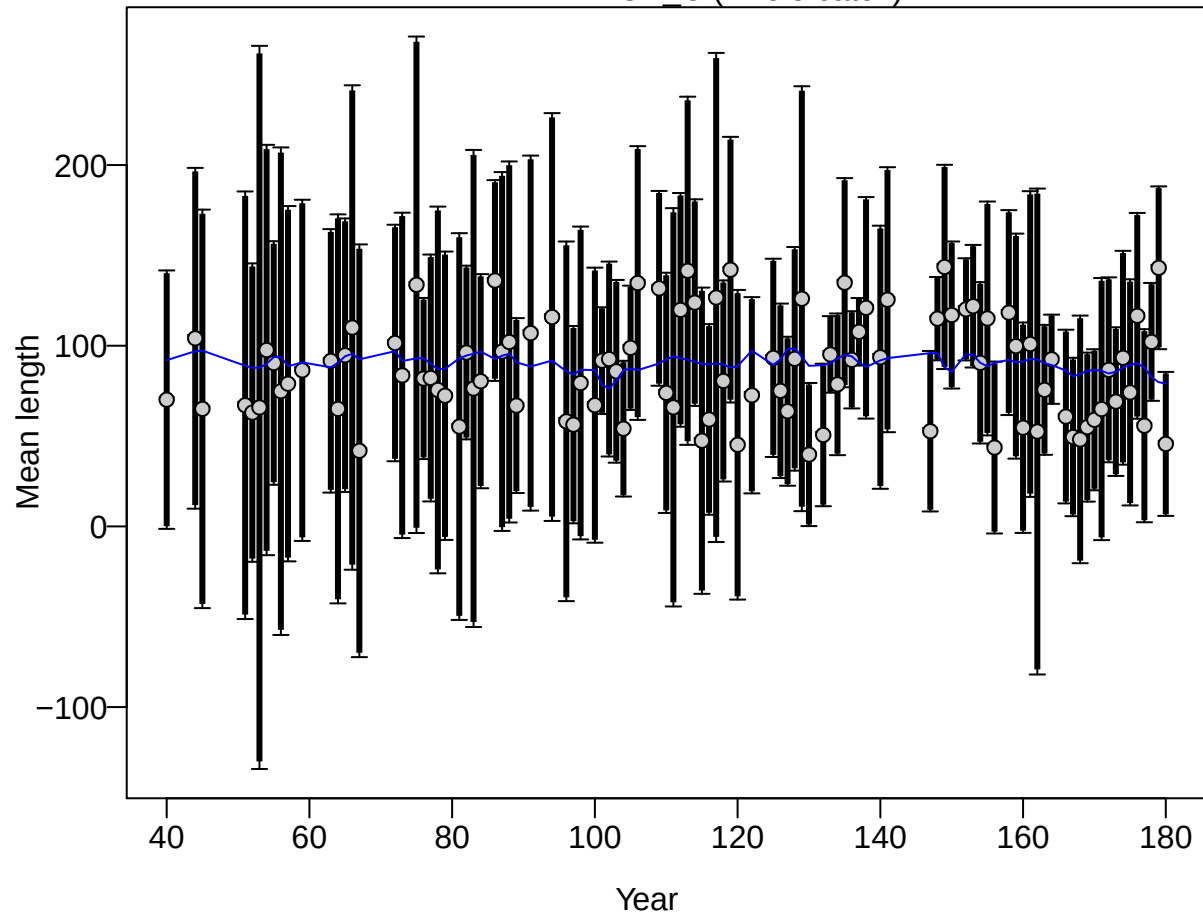
Length (cm)

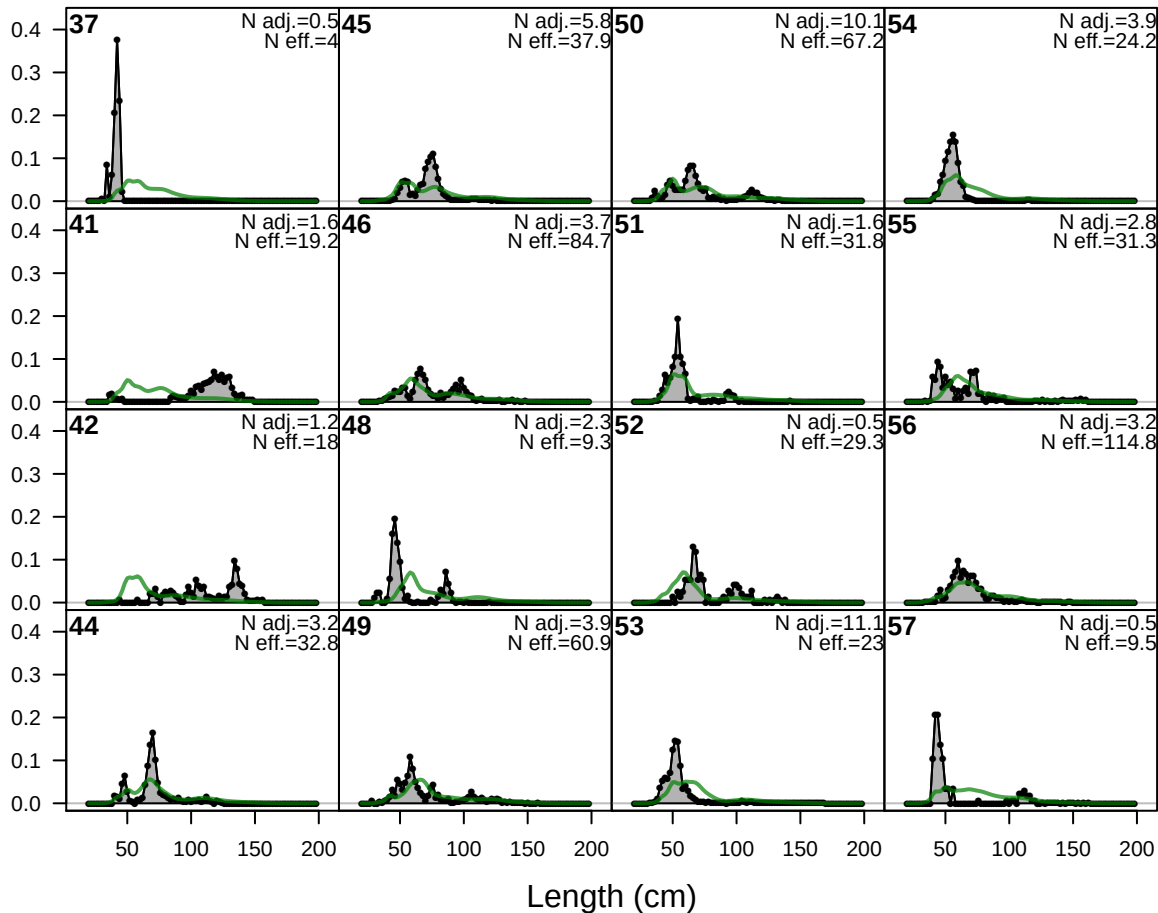


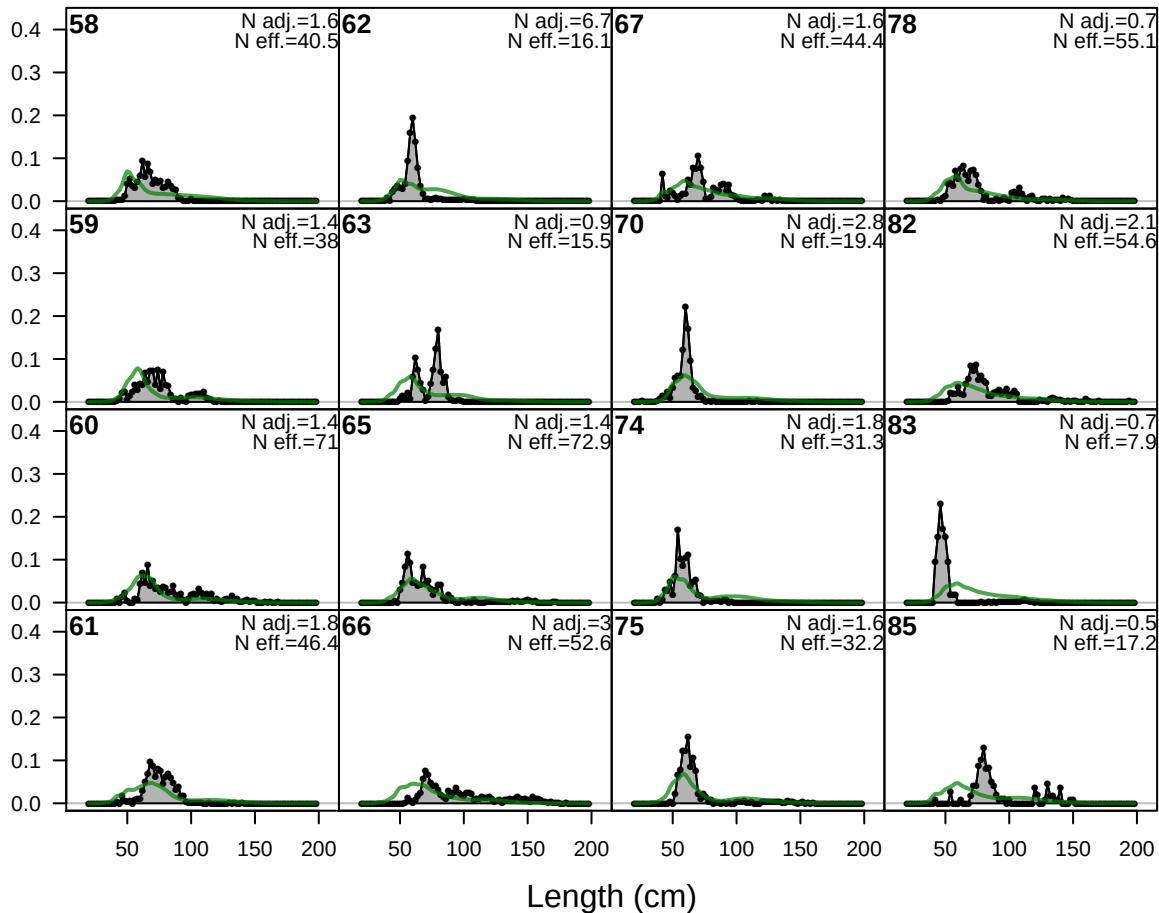
Effective sample size

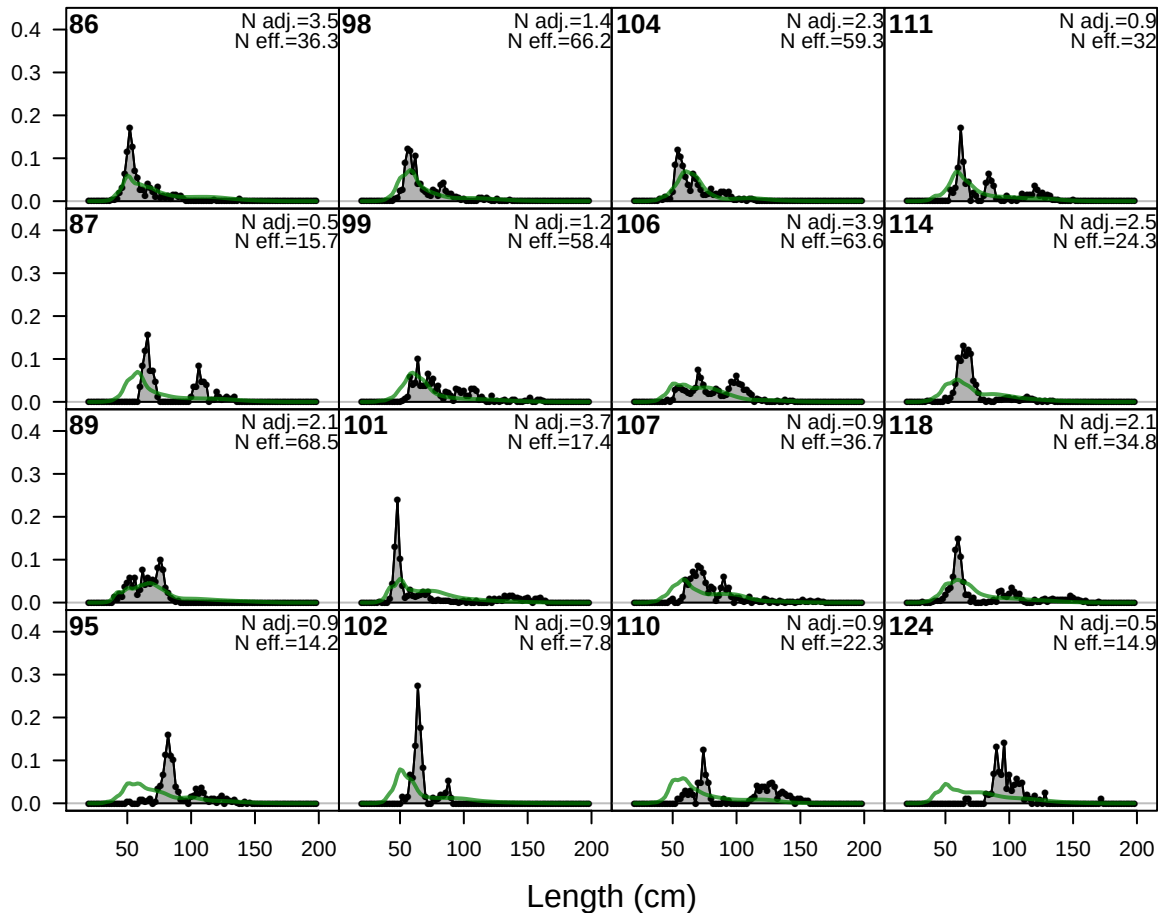


F12-NOA\_C (whole catch)

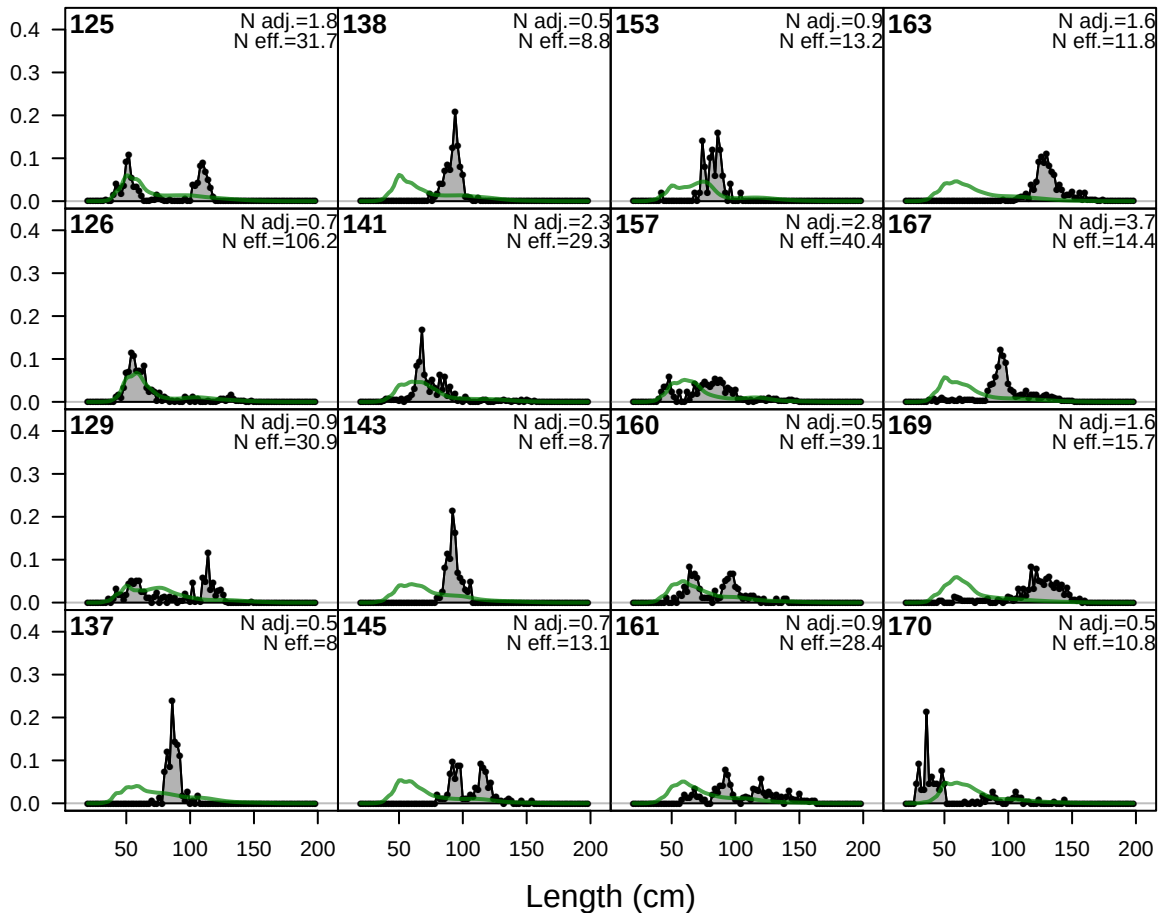


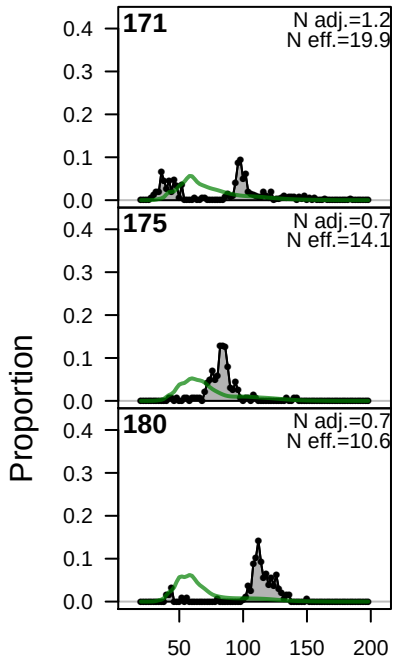




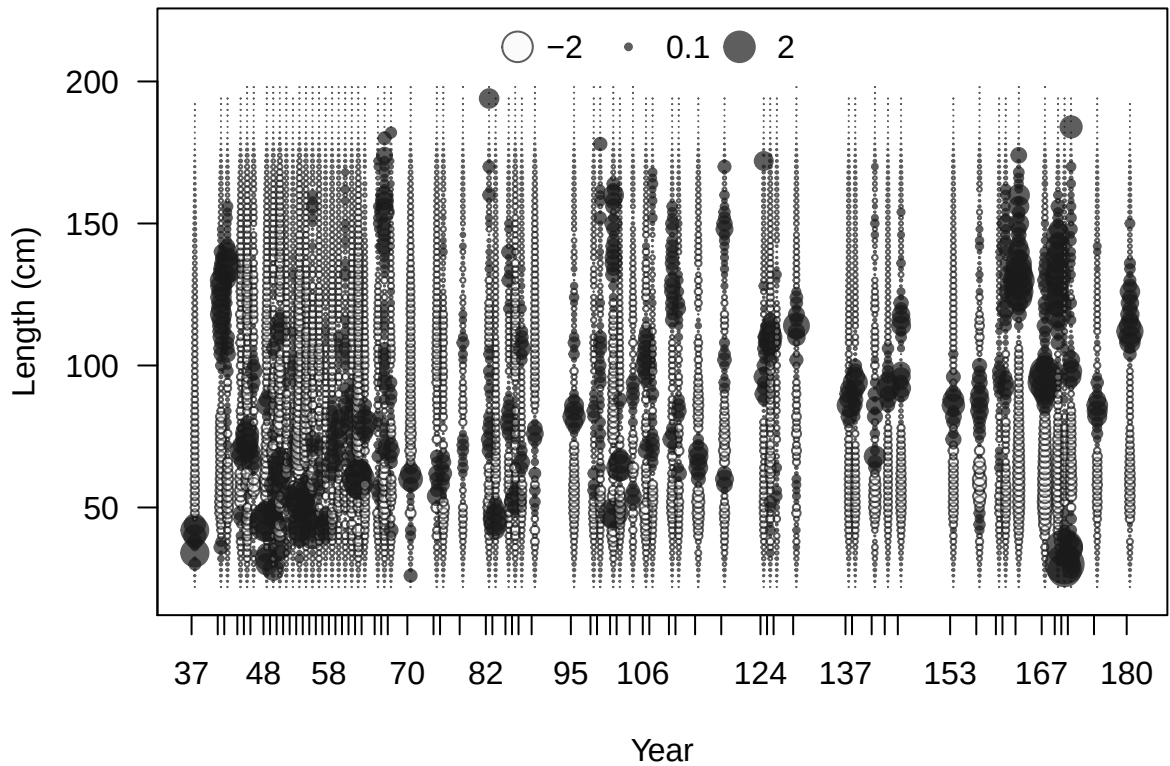




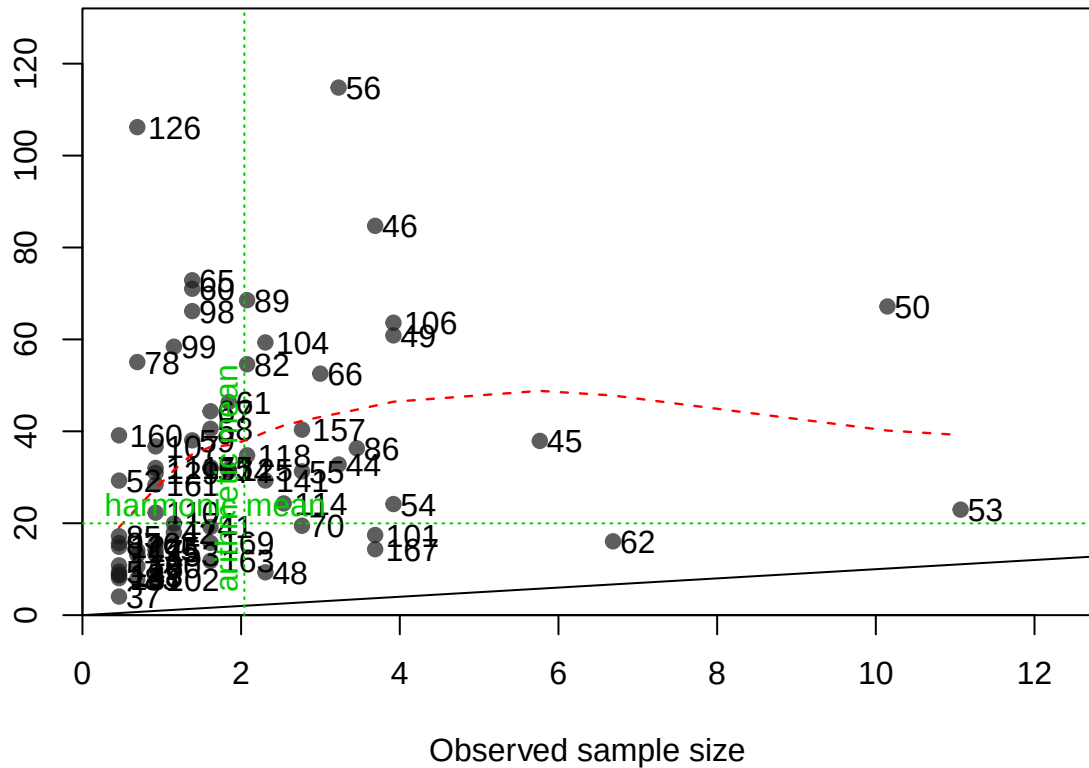




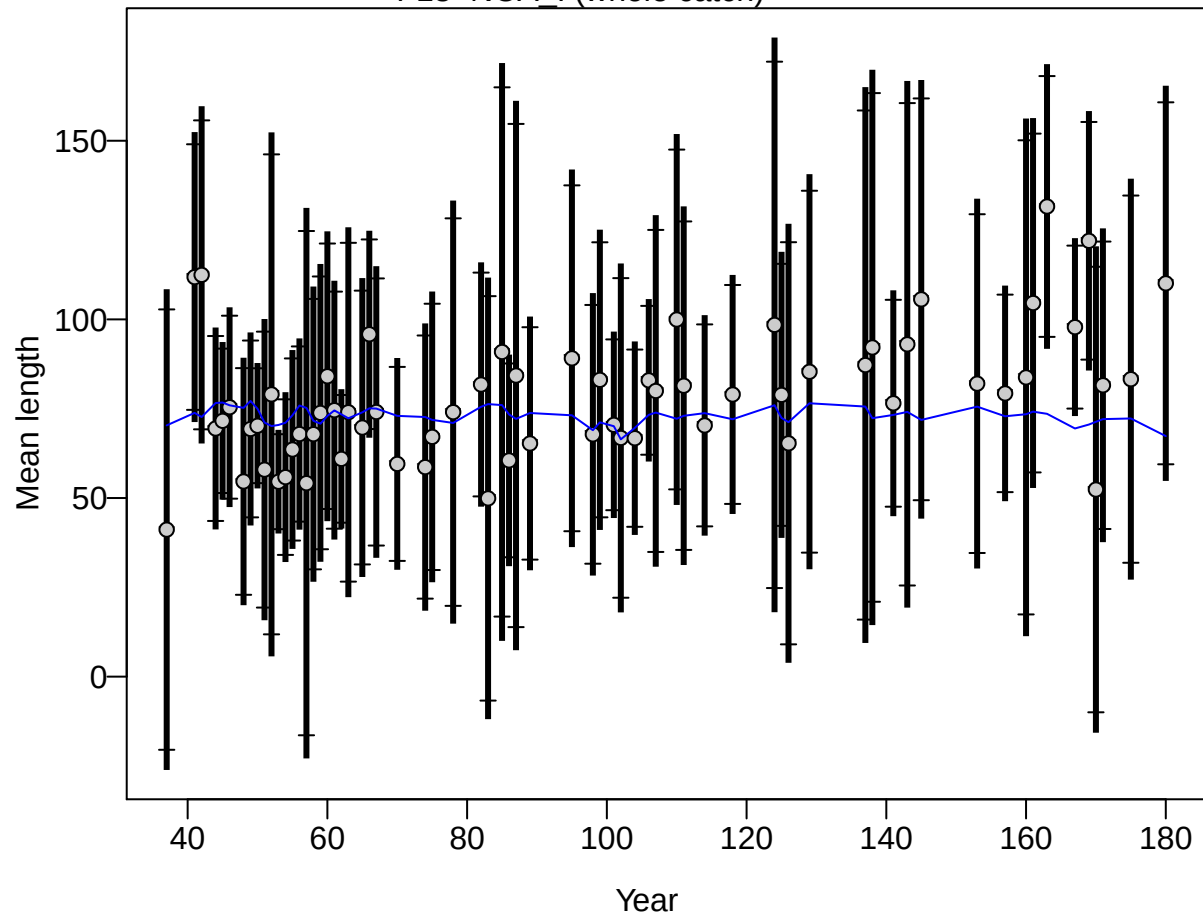
Length (cm)

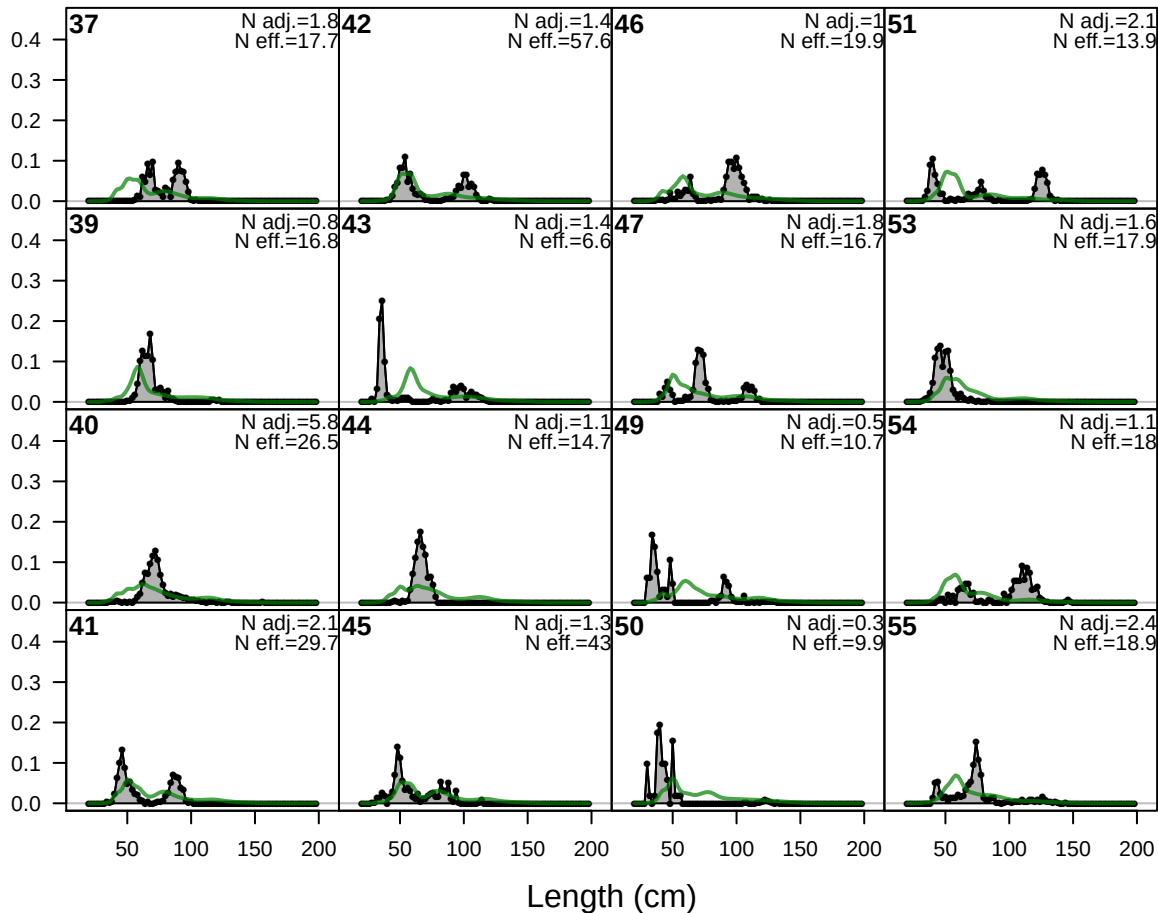


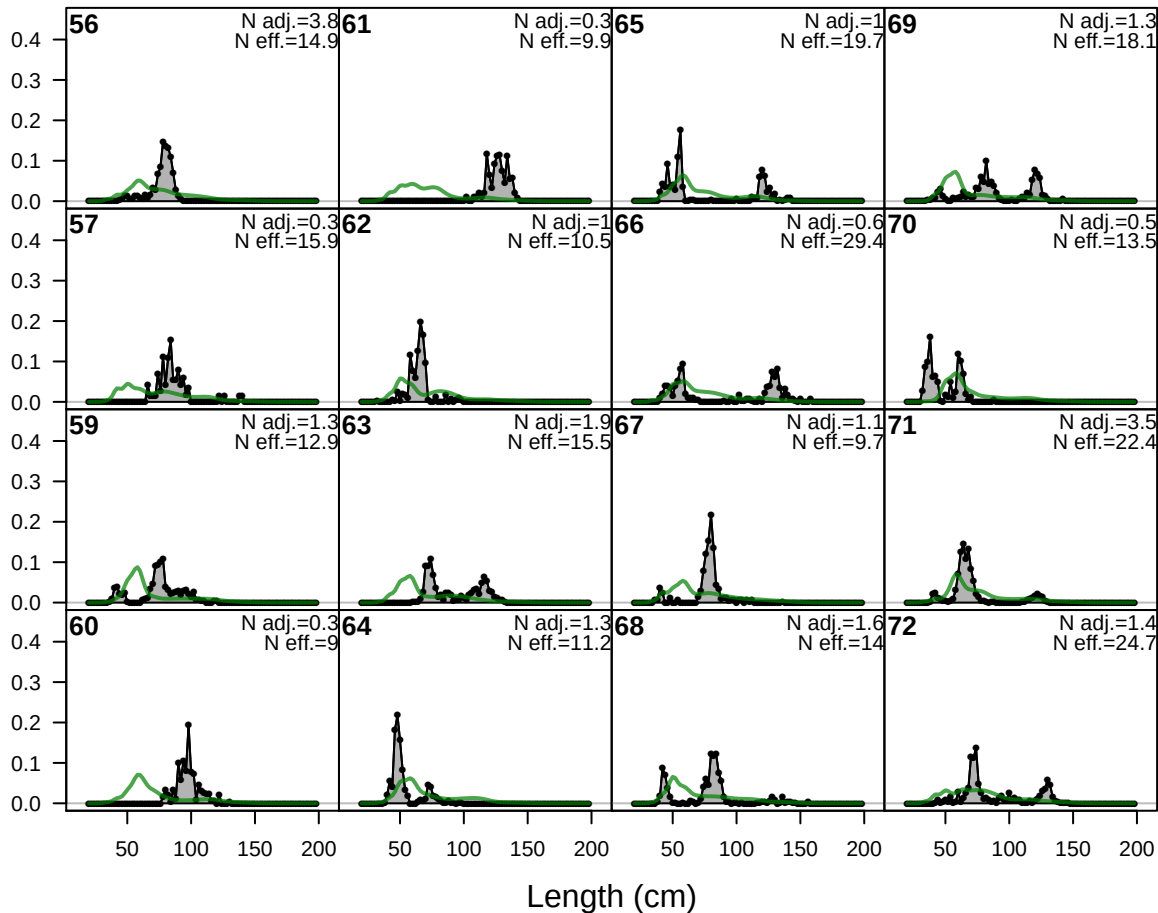
Effective sample size

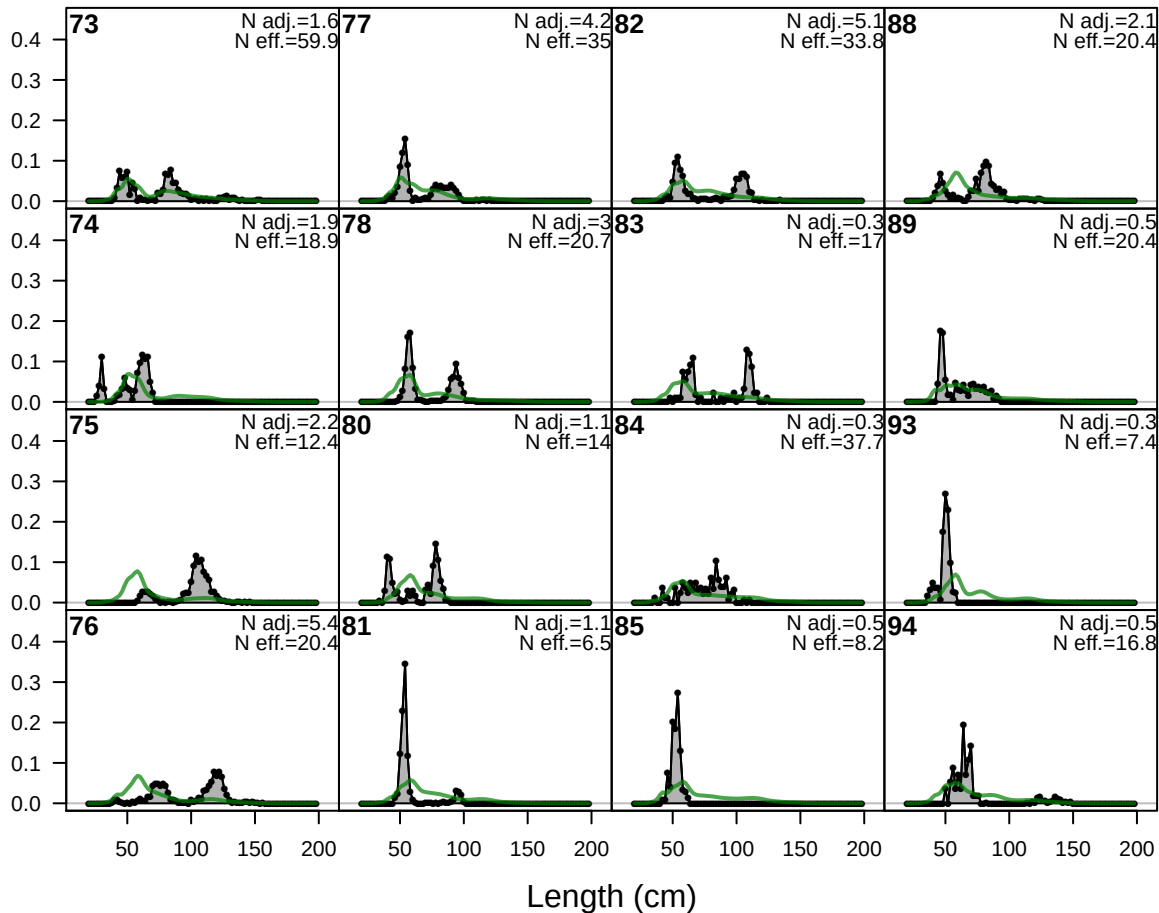


F13-NOA\_I (whole catch)

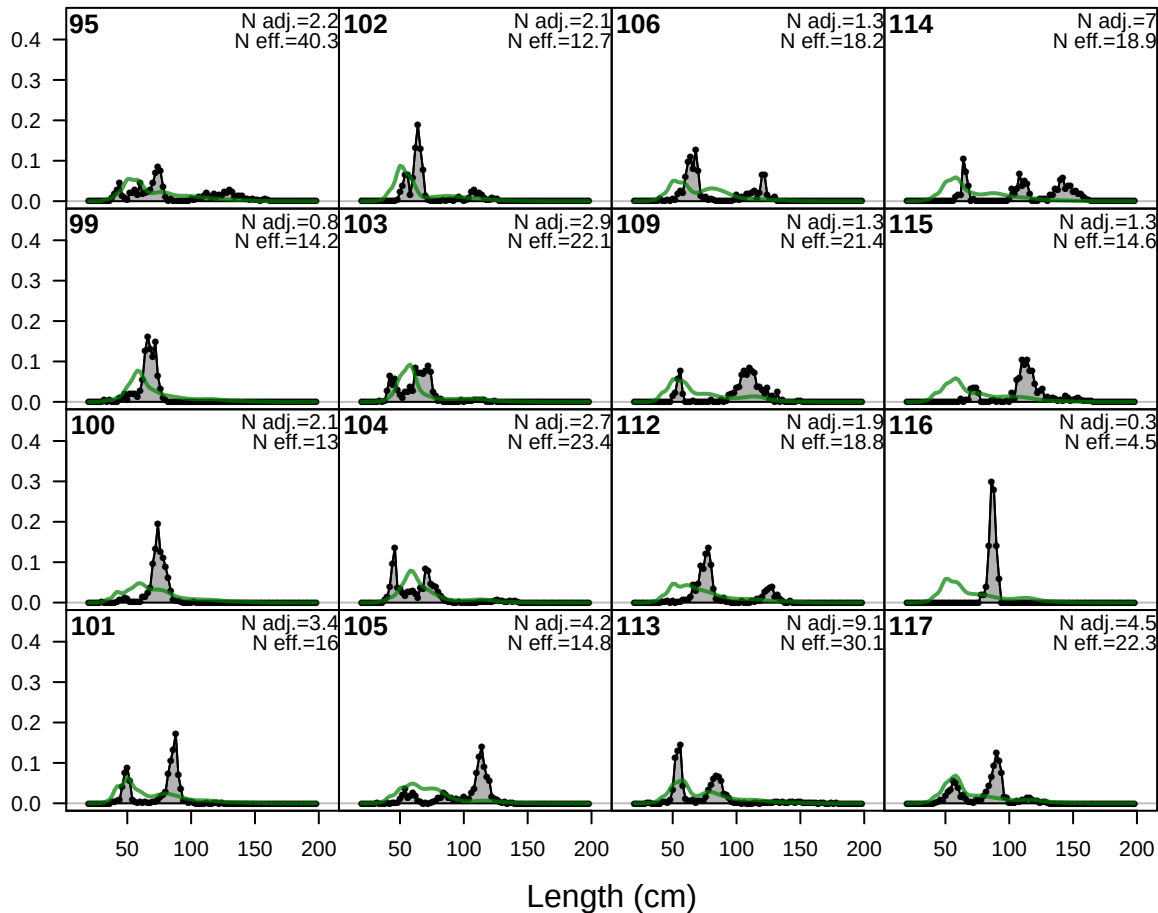


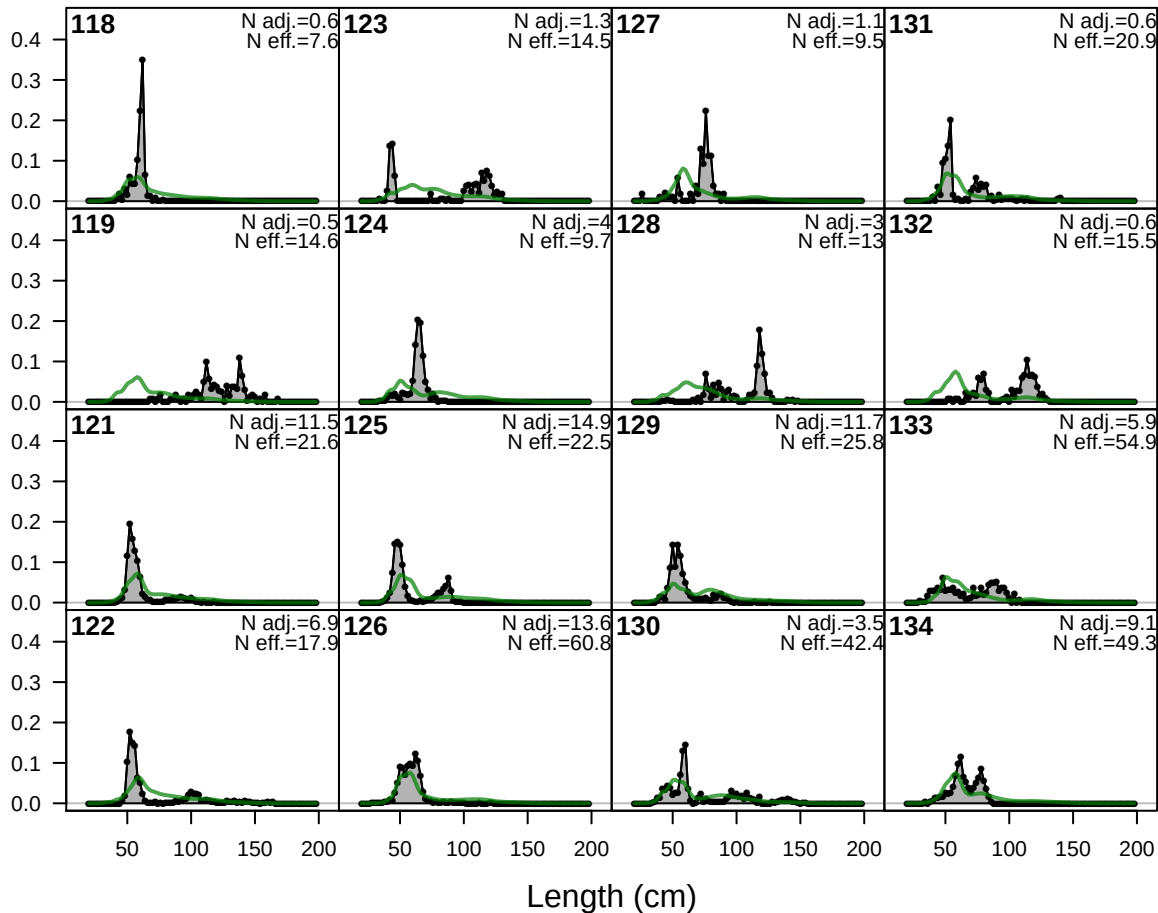


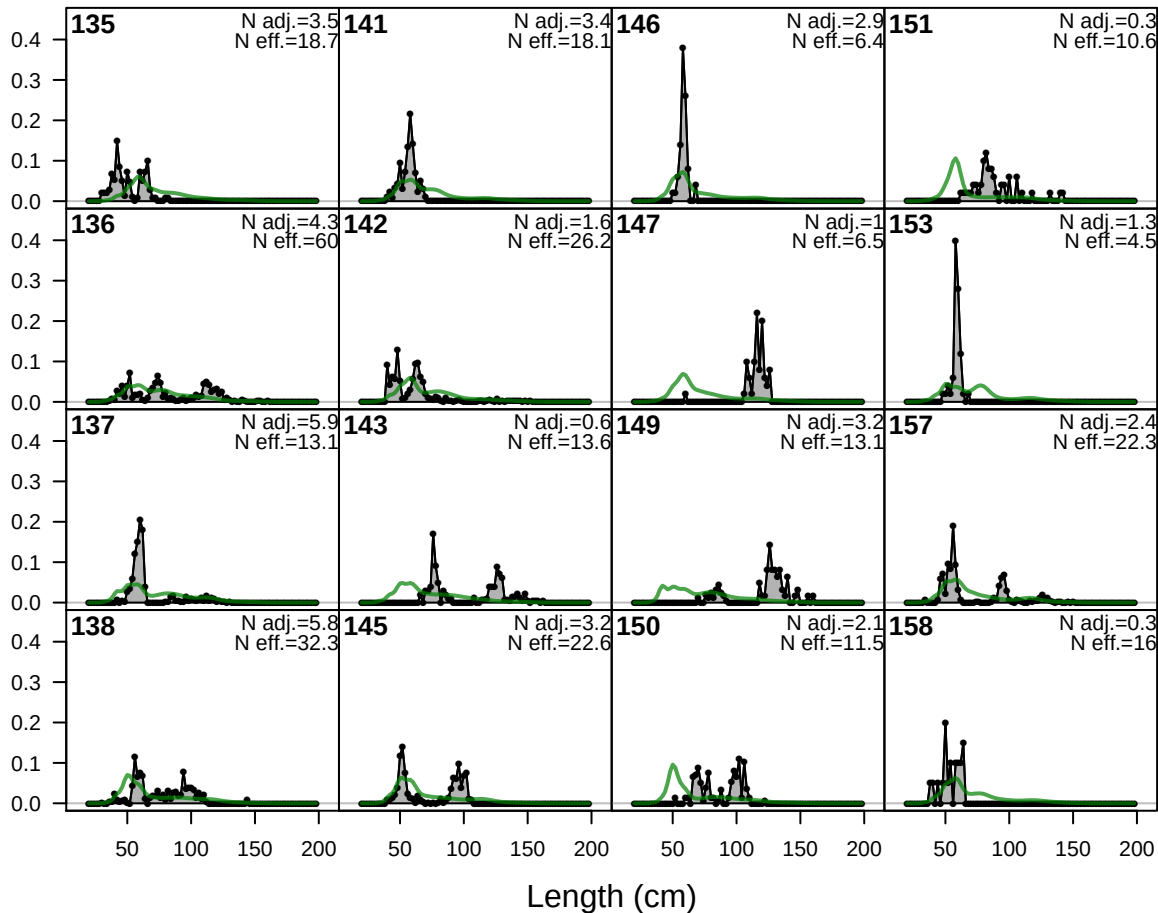




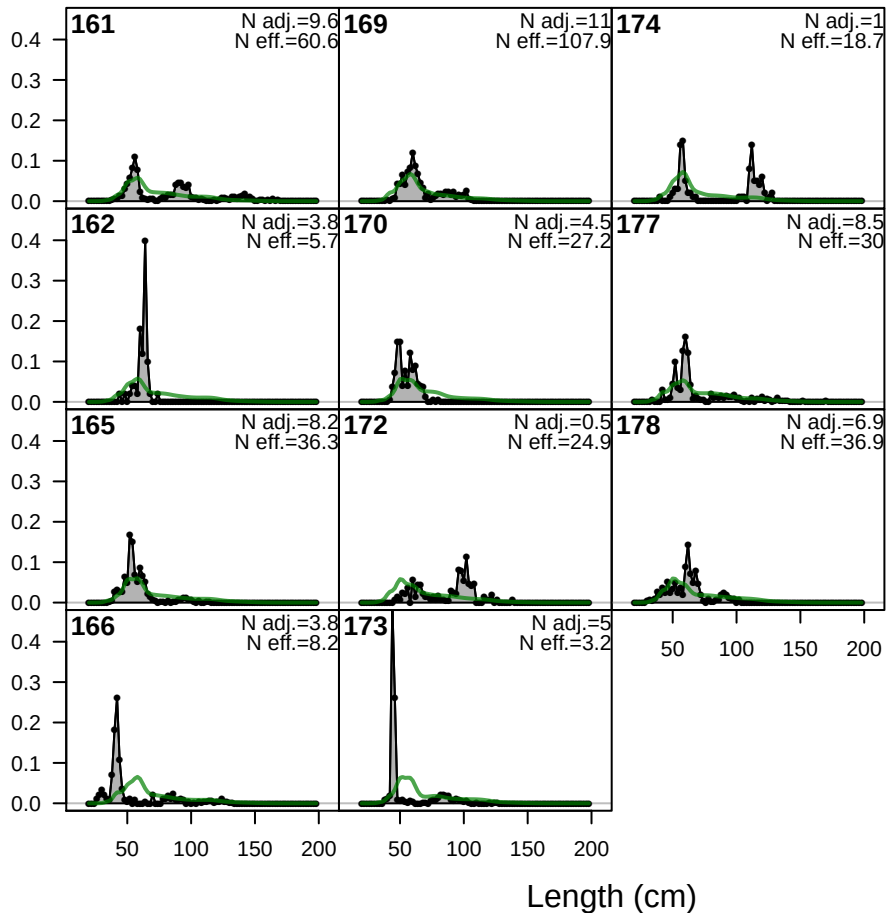


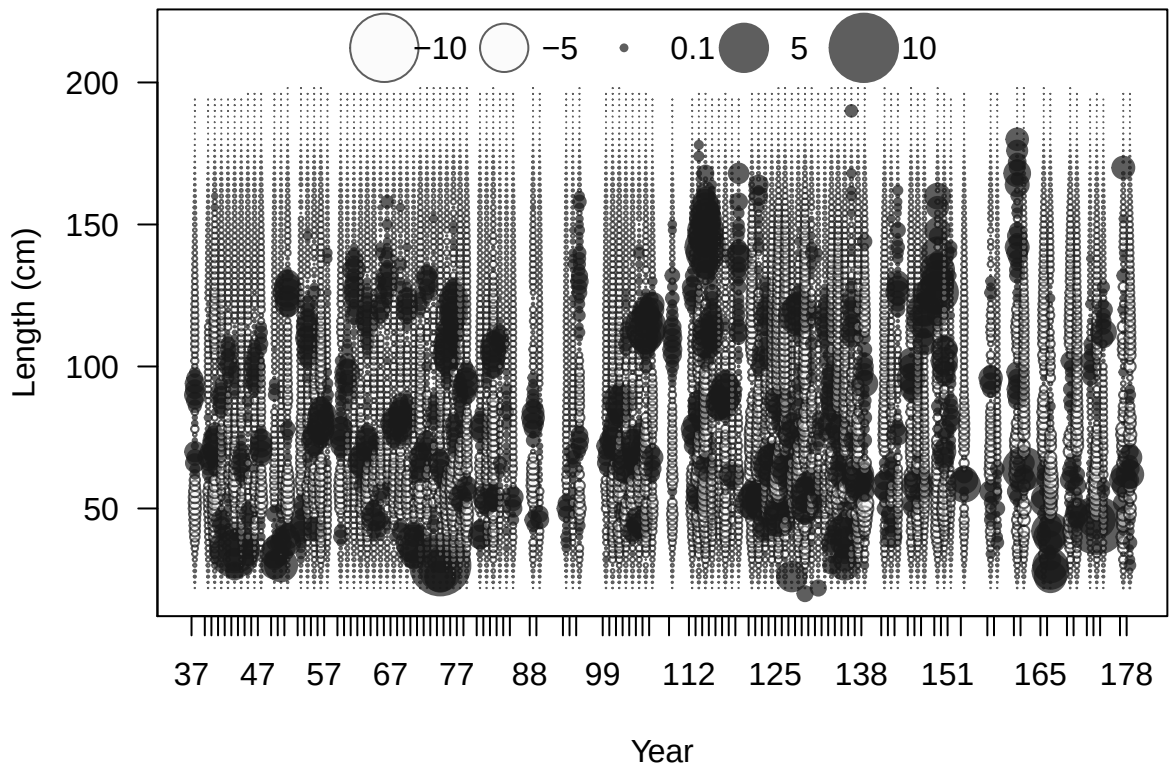




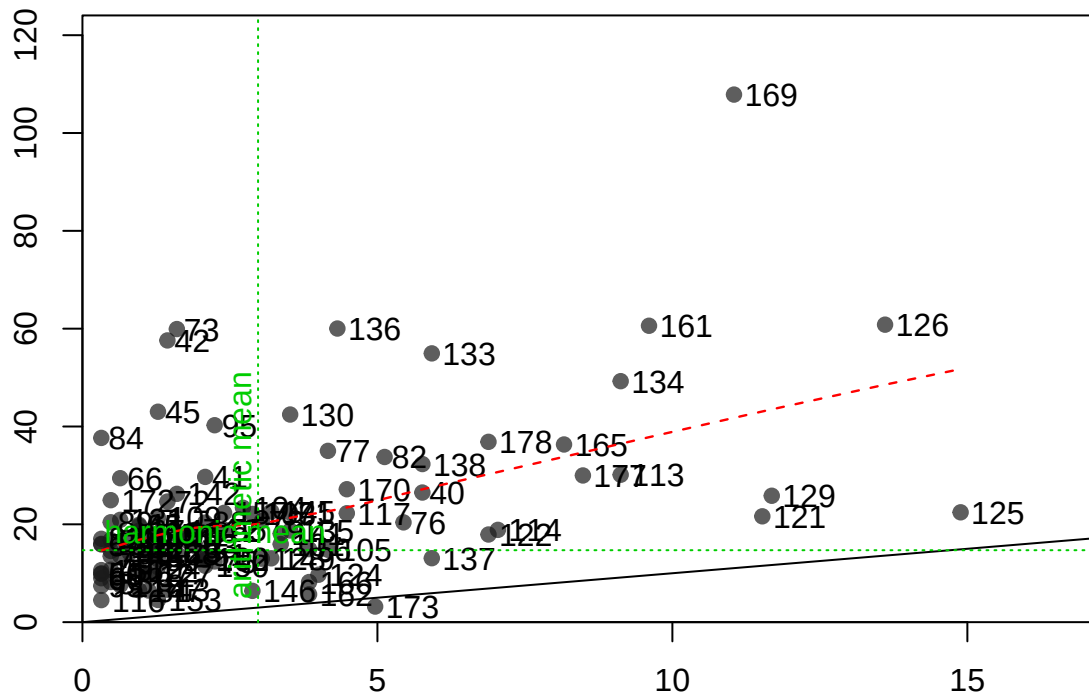


Proportion



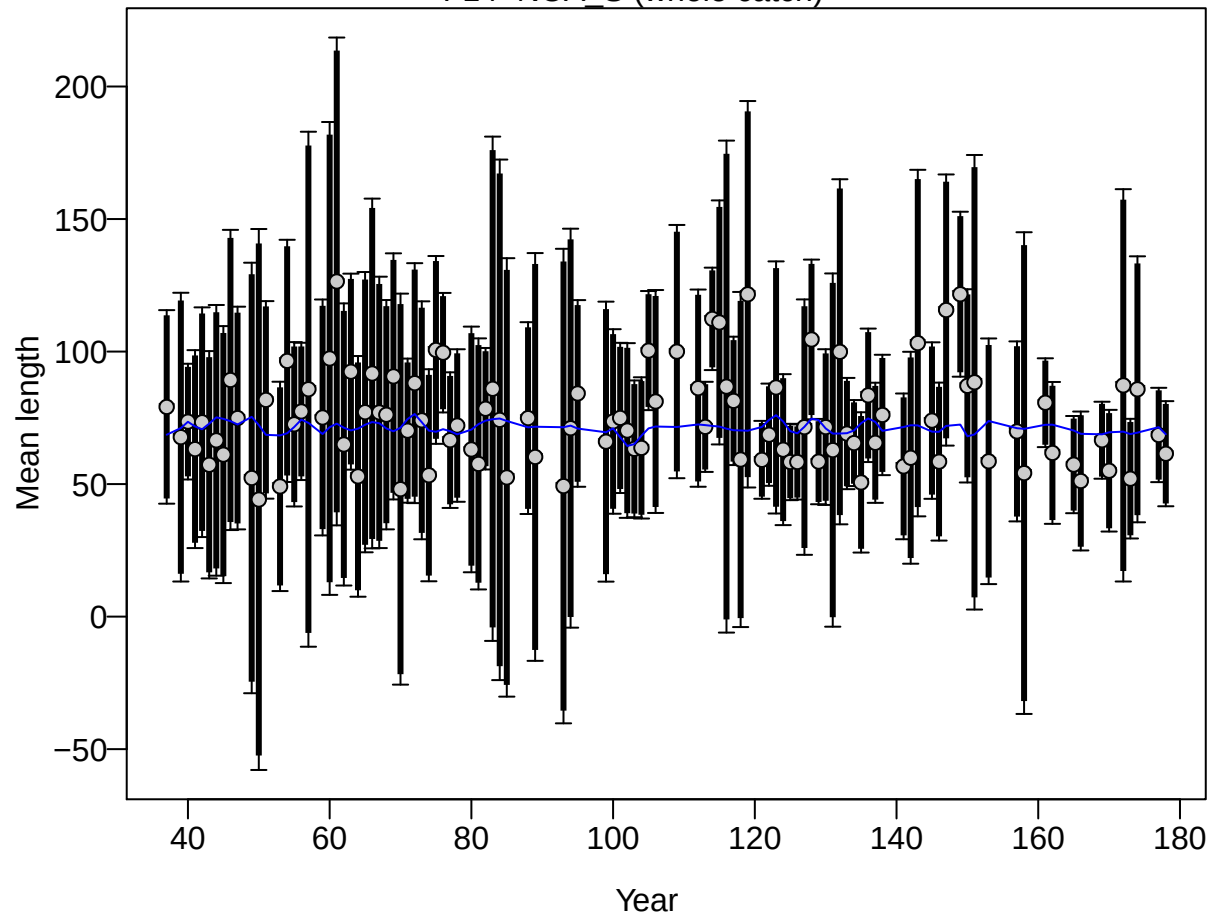


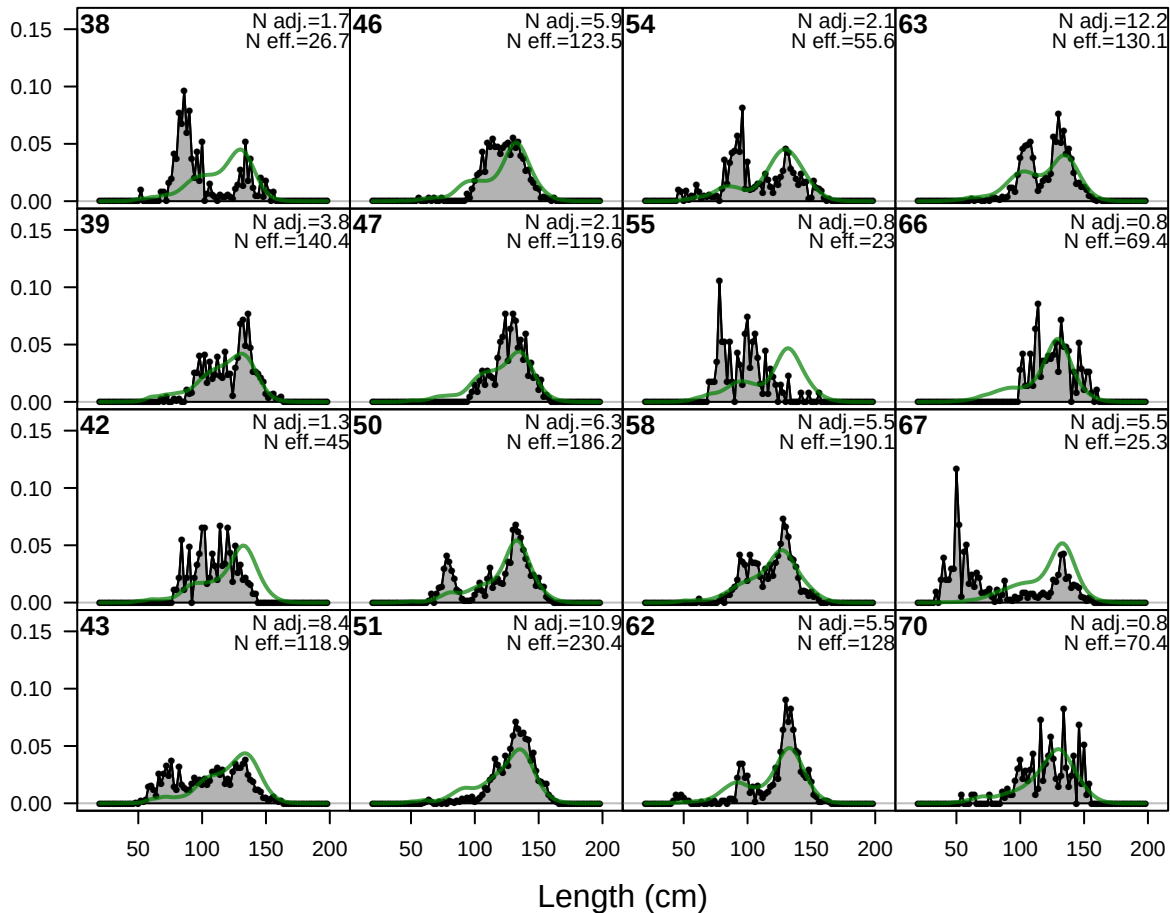
Effective sample size



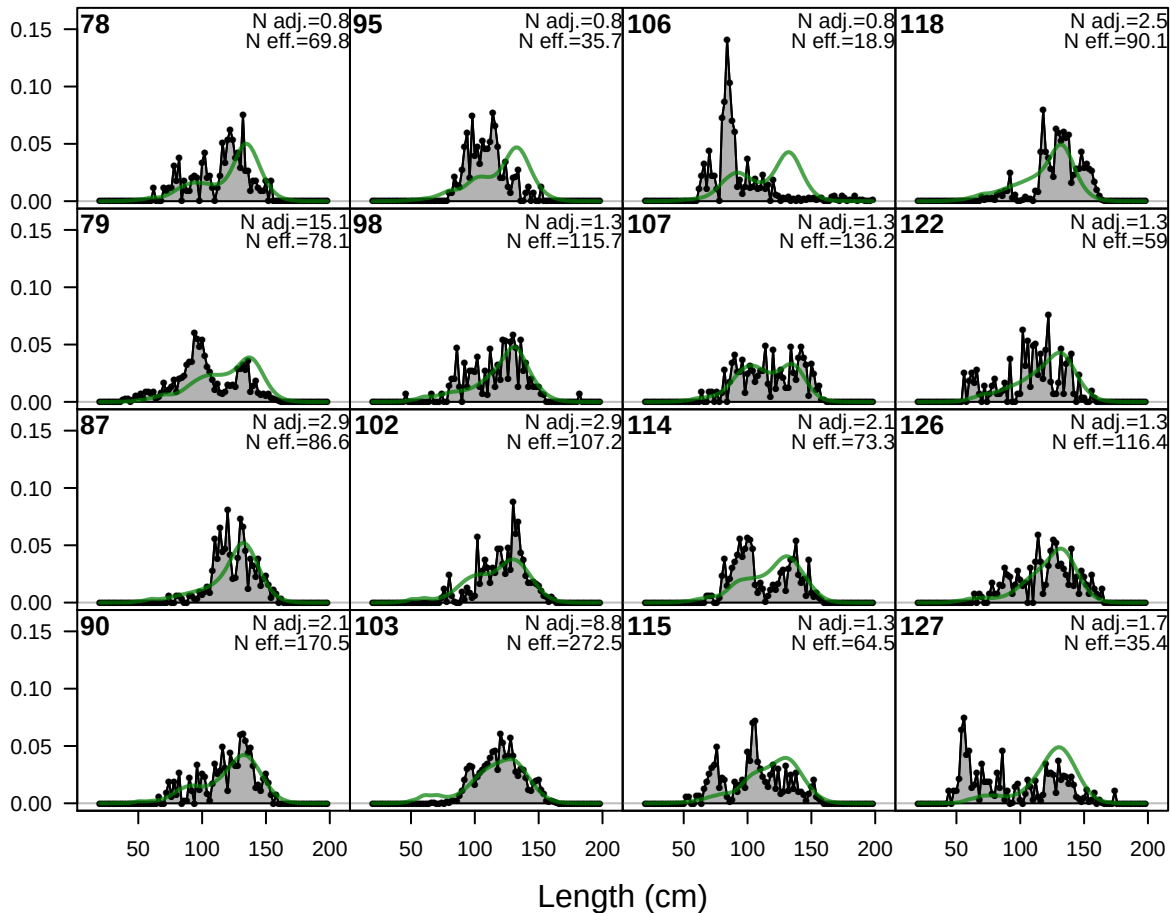
Observed sample size

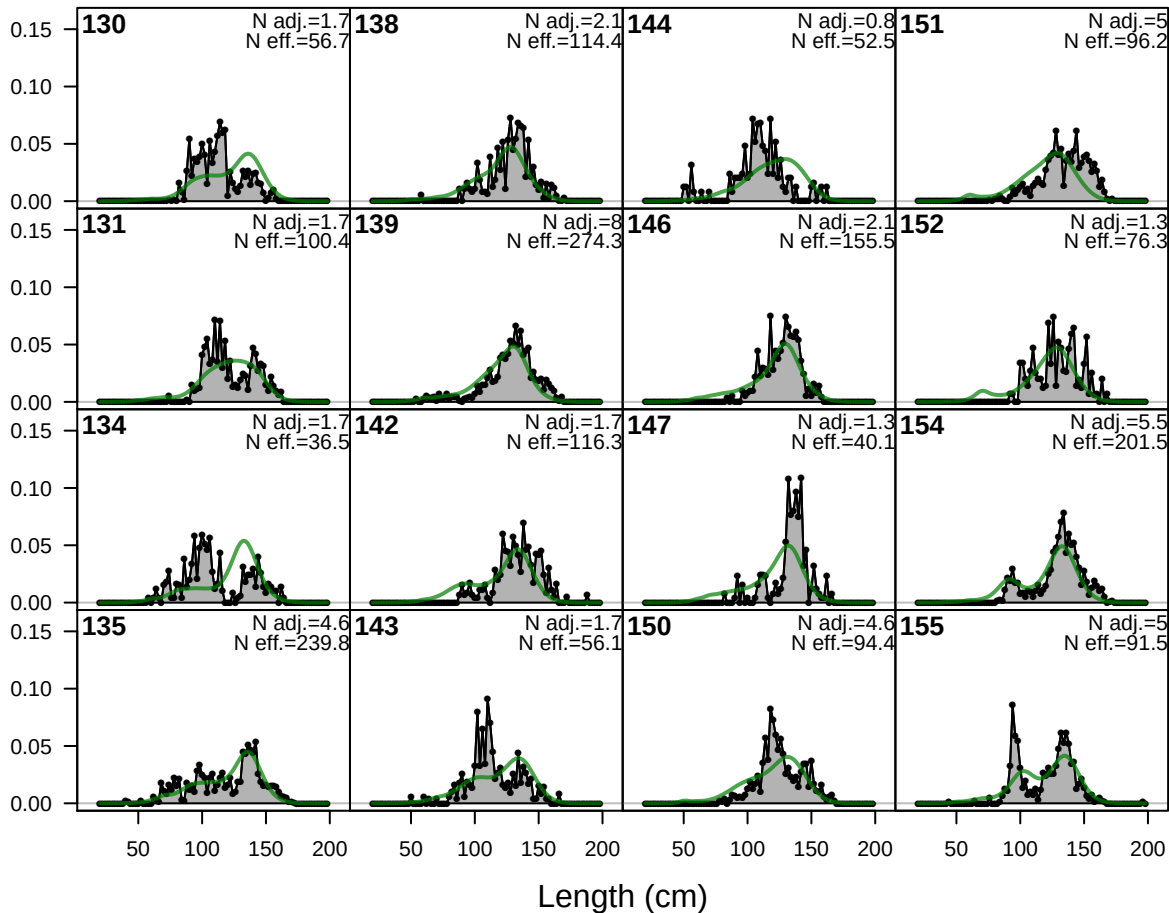
F14-NOA\_S (whole catch)

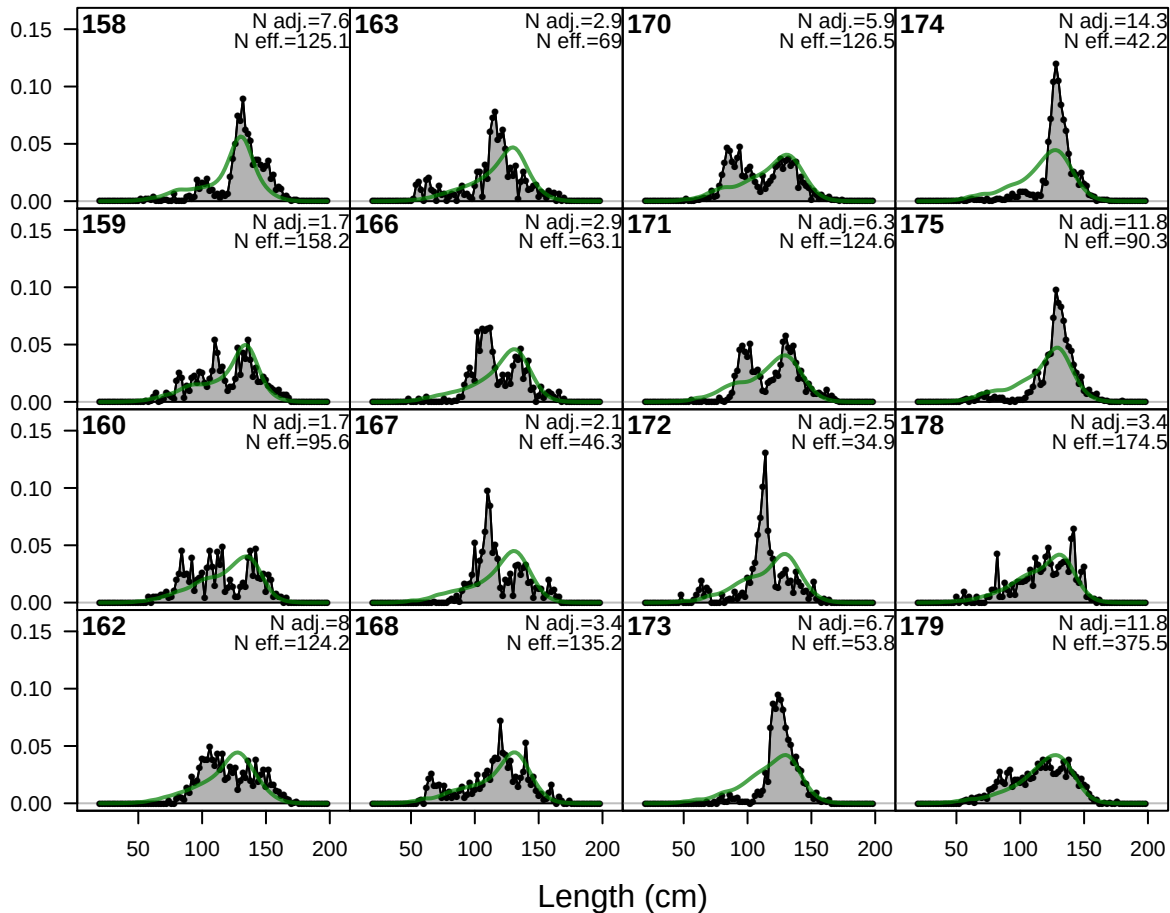


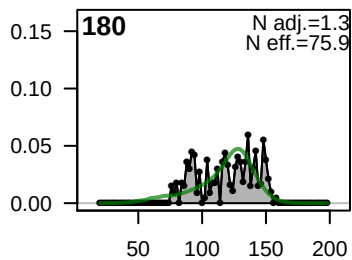






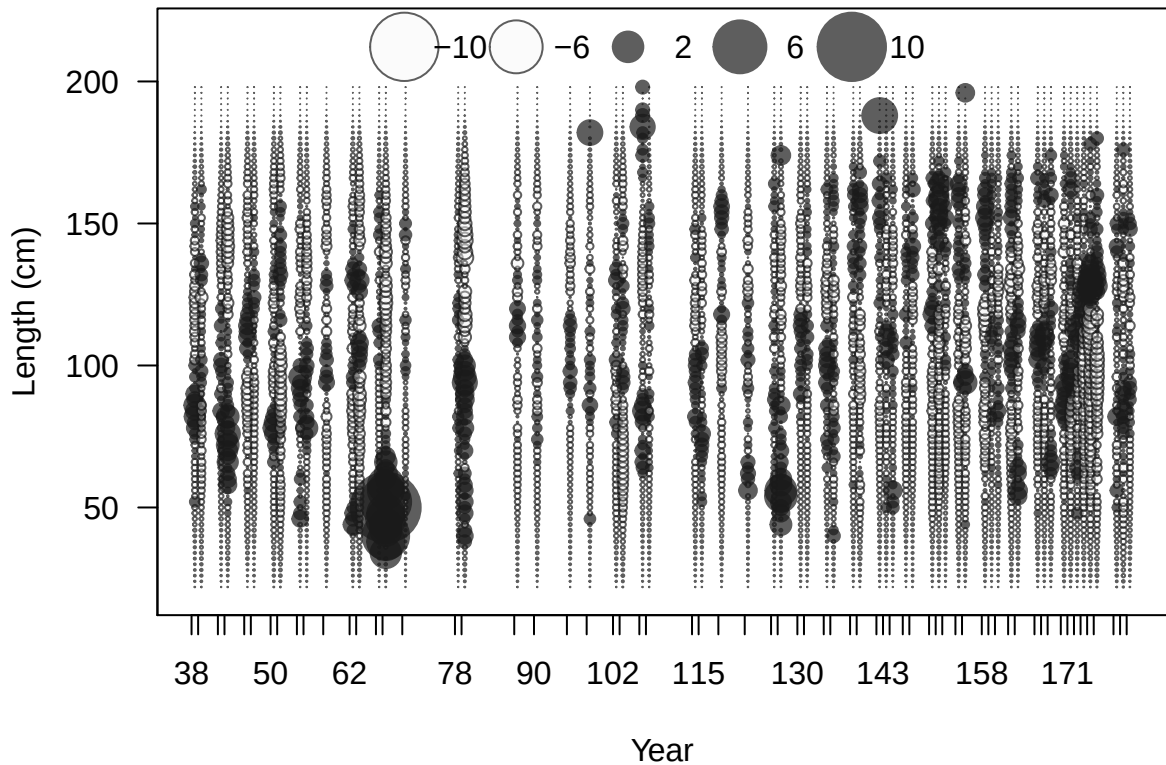




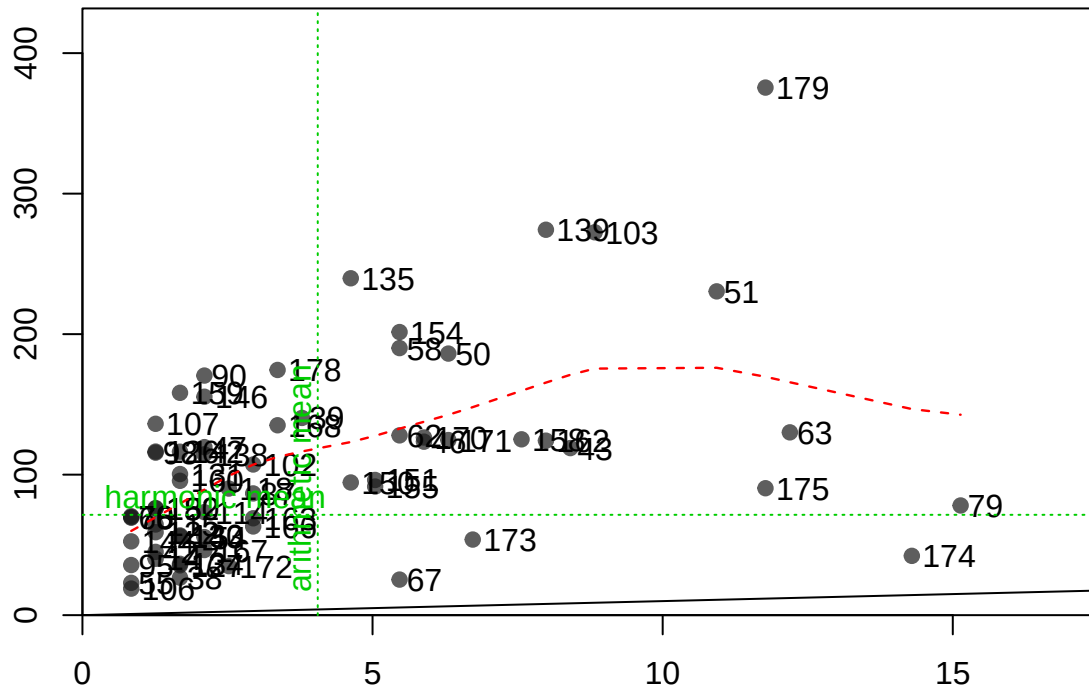


Proportion

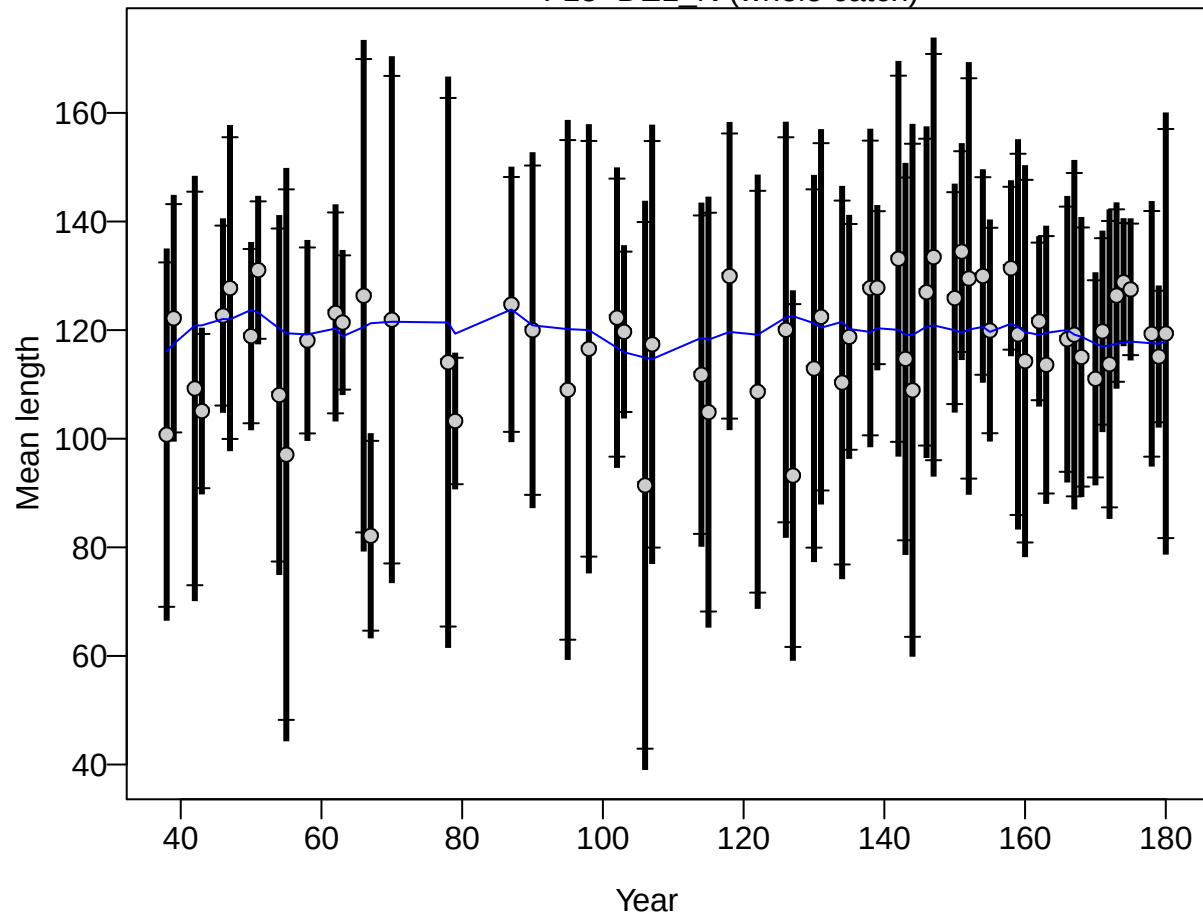
Length (cm)

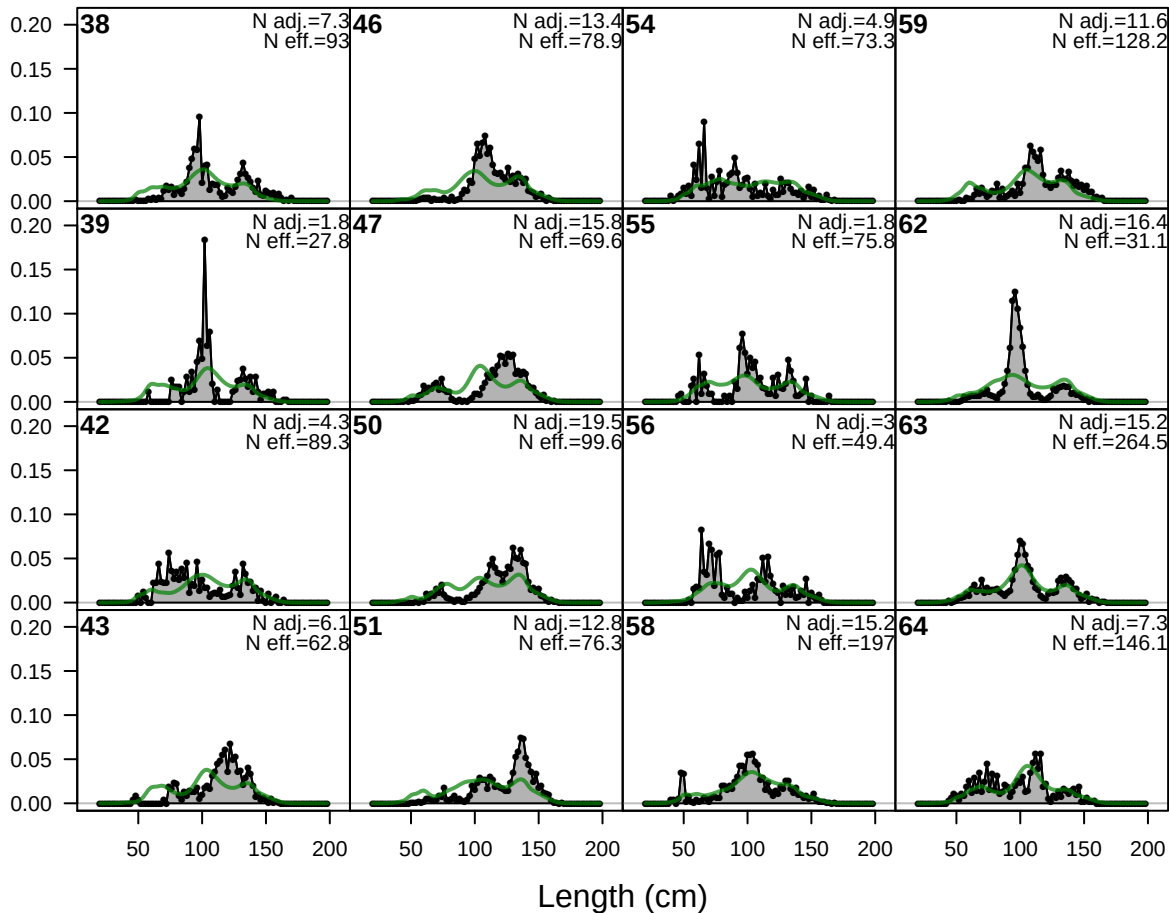


Effective sample size

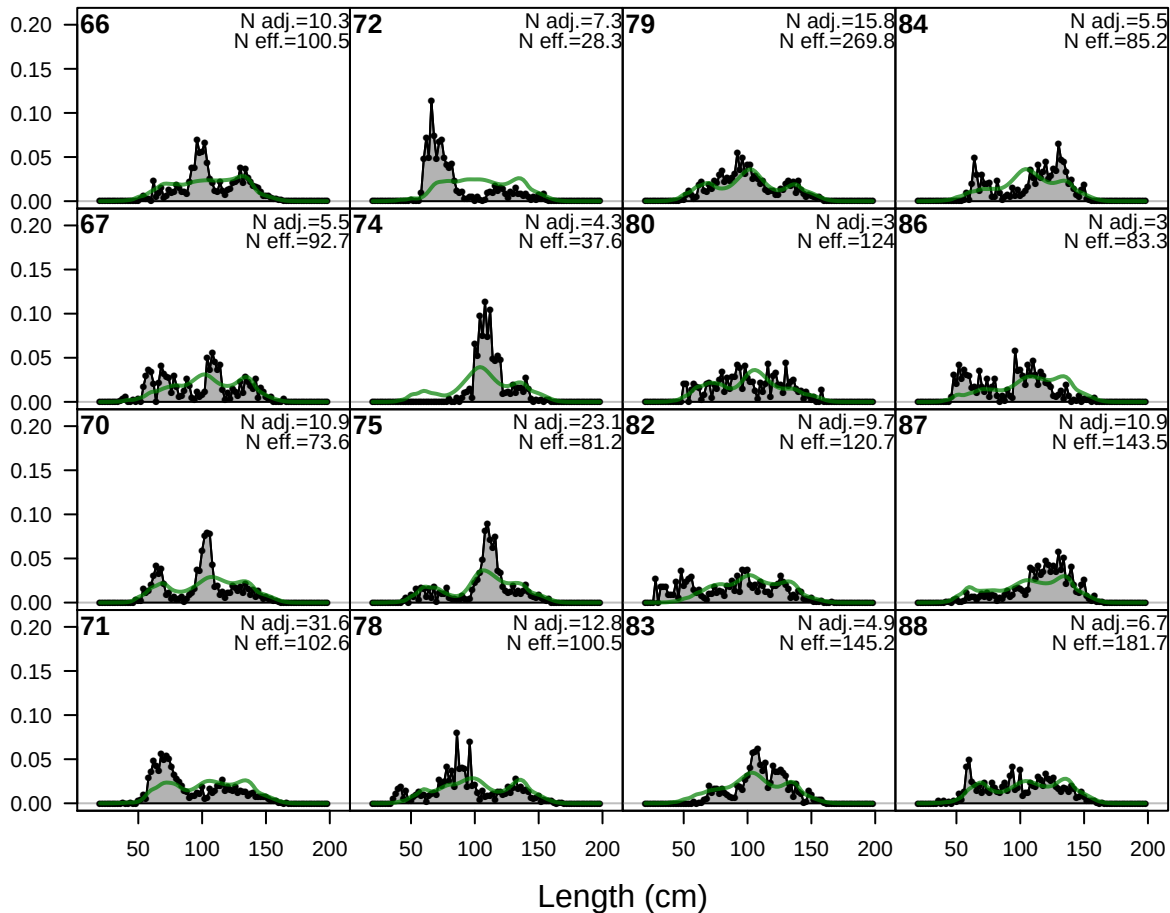


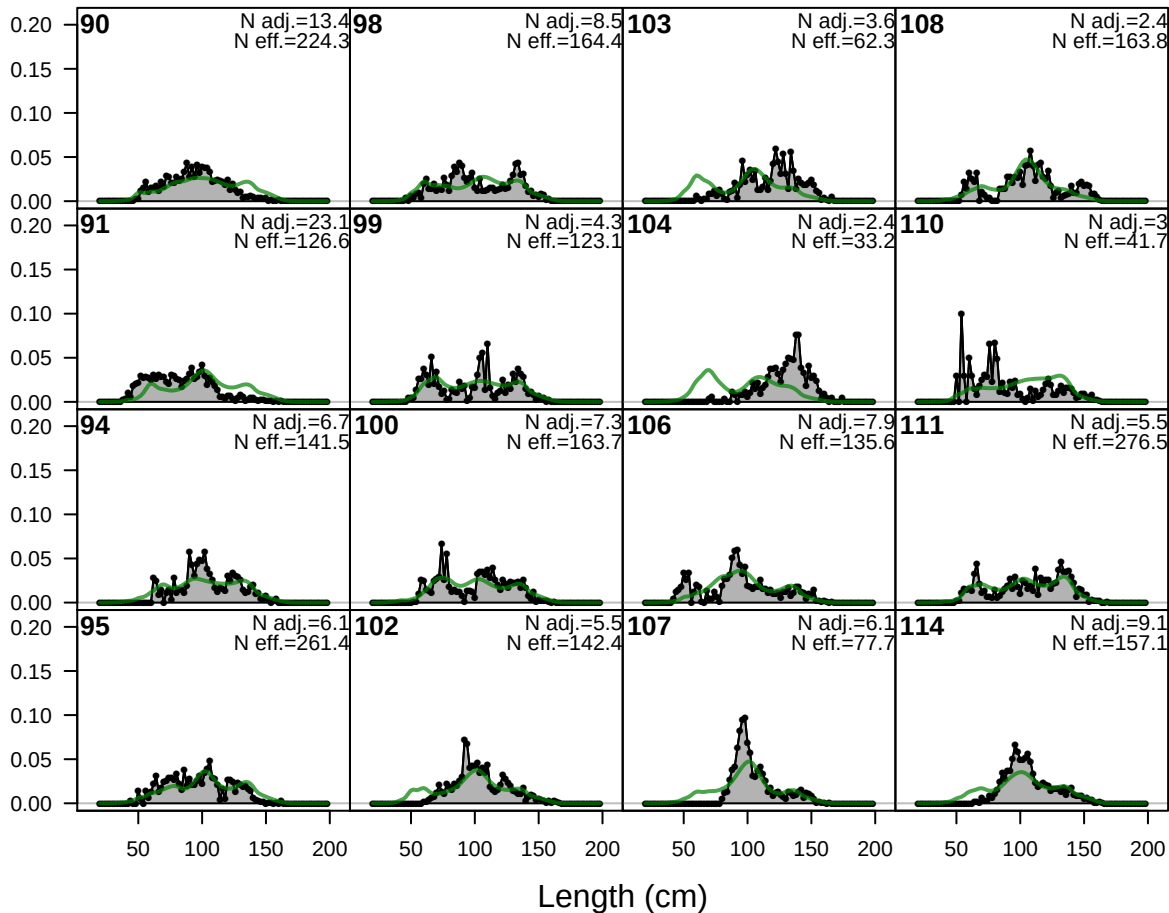
F15-DEL\_N (whole catch)

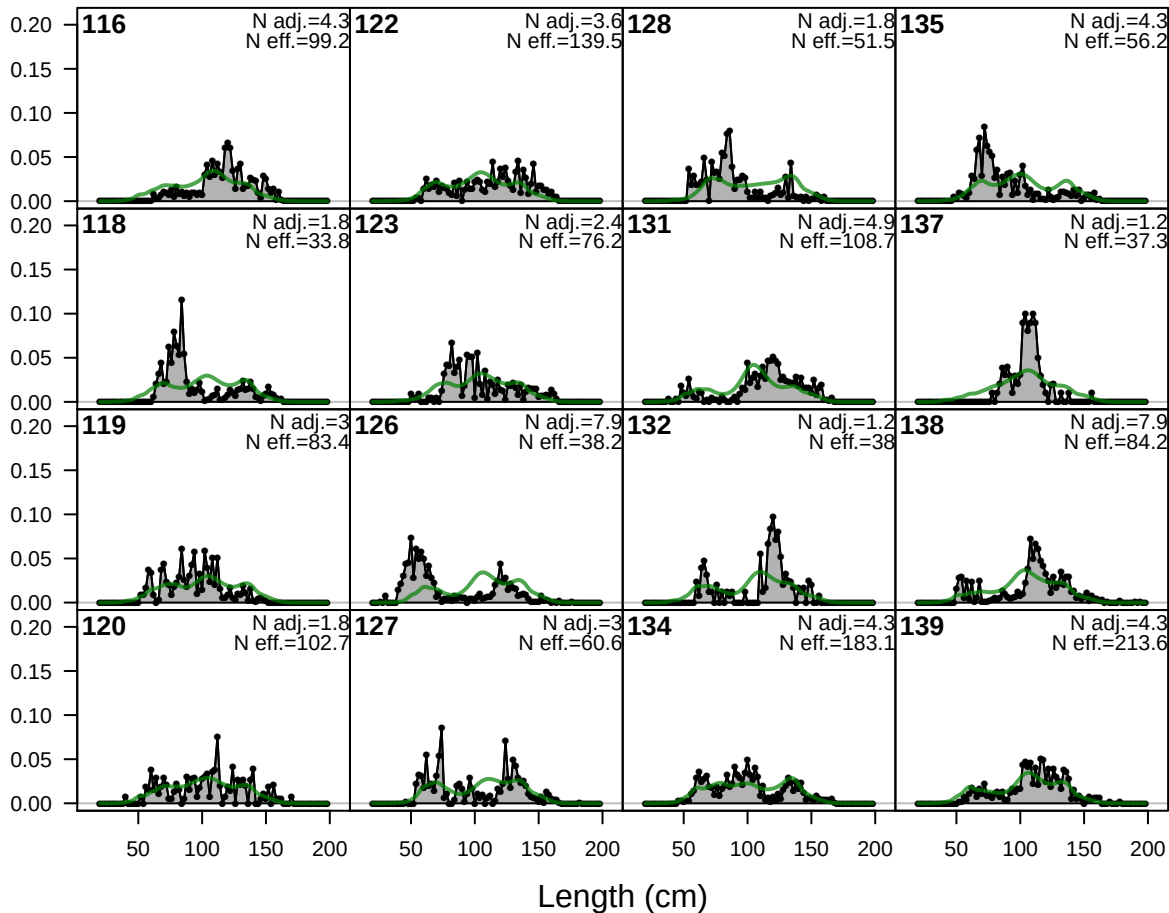


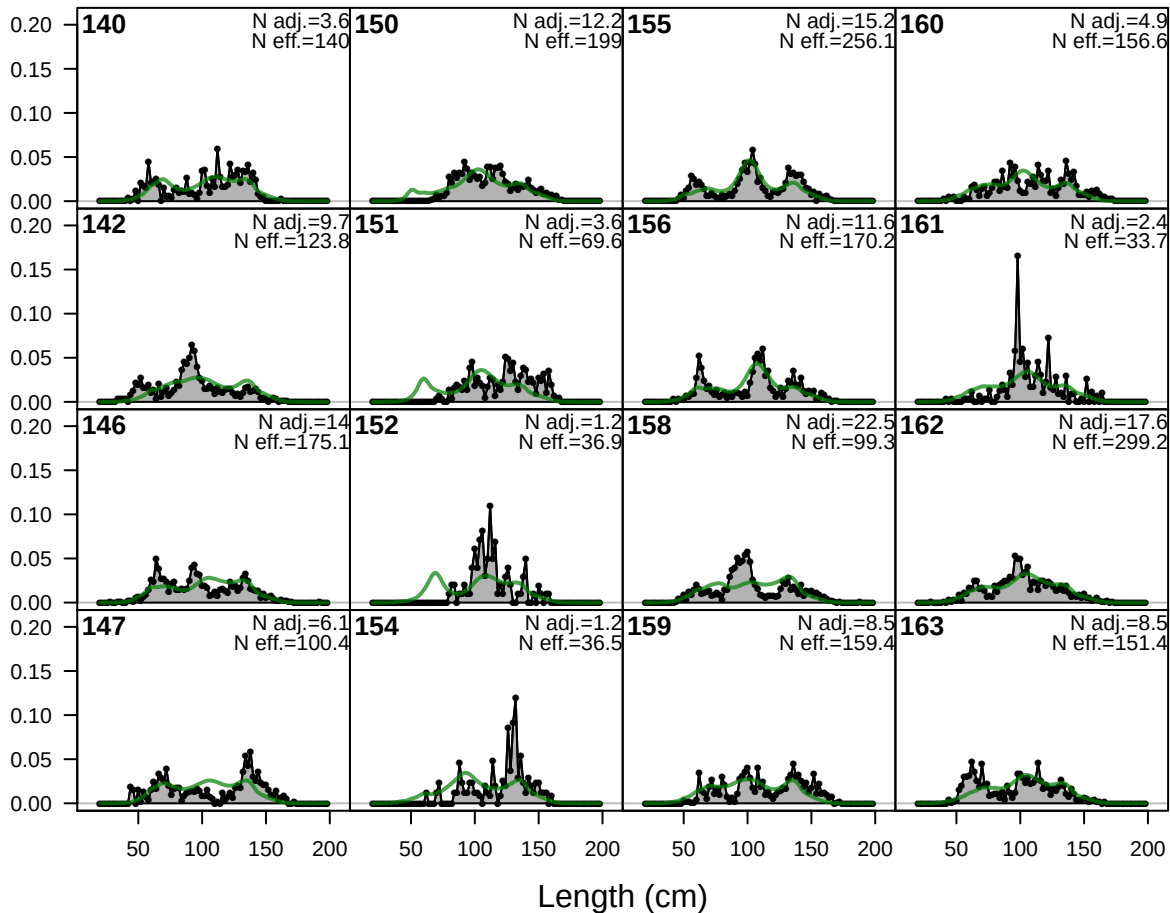




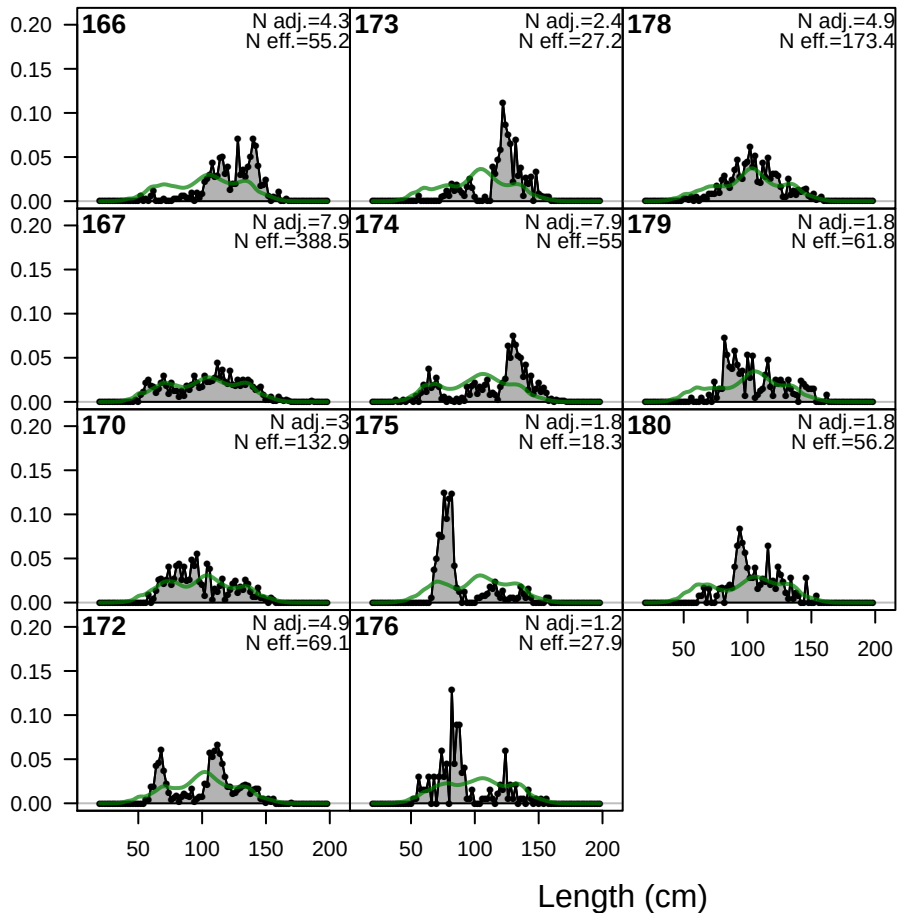


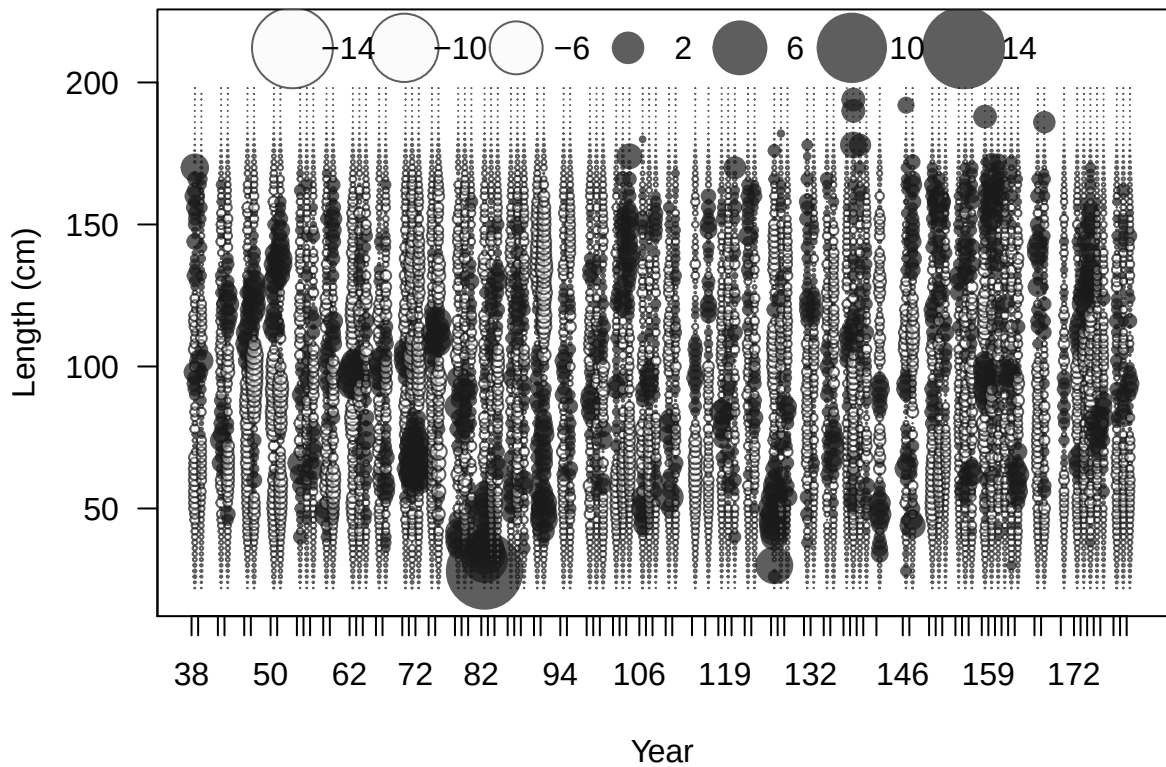




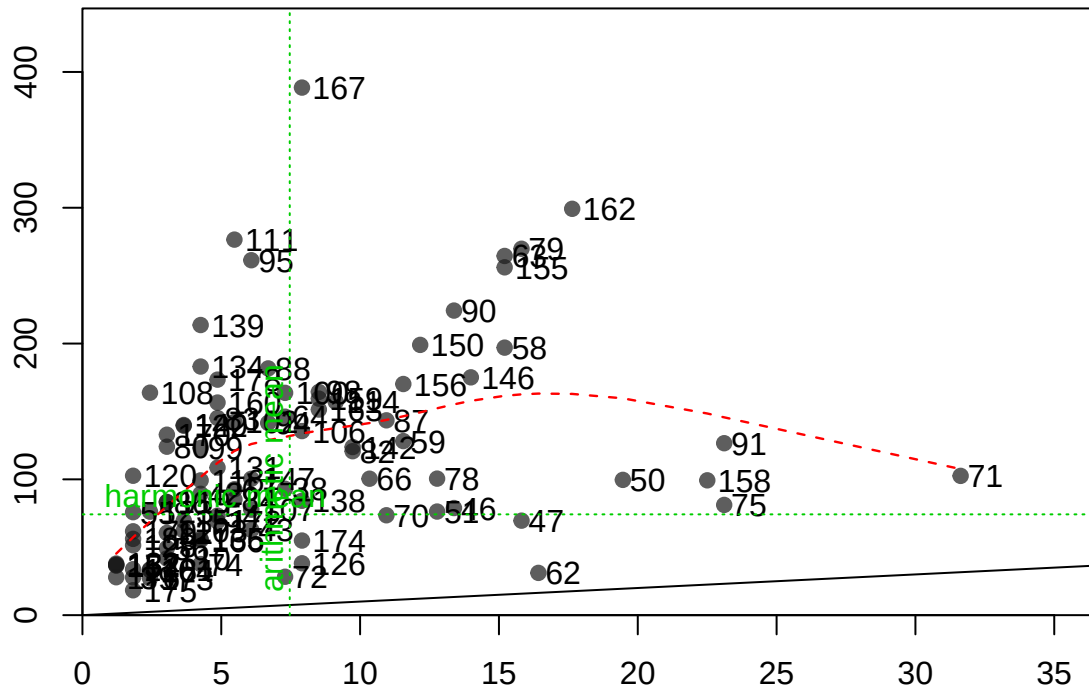


Proportion

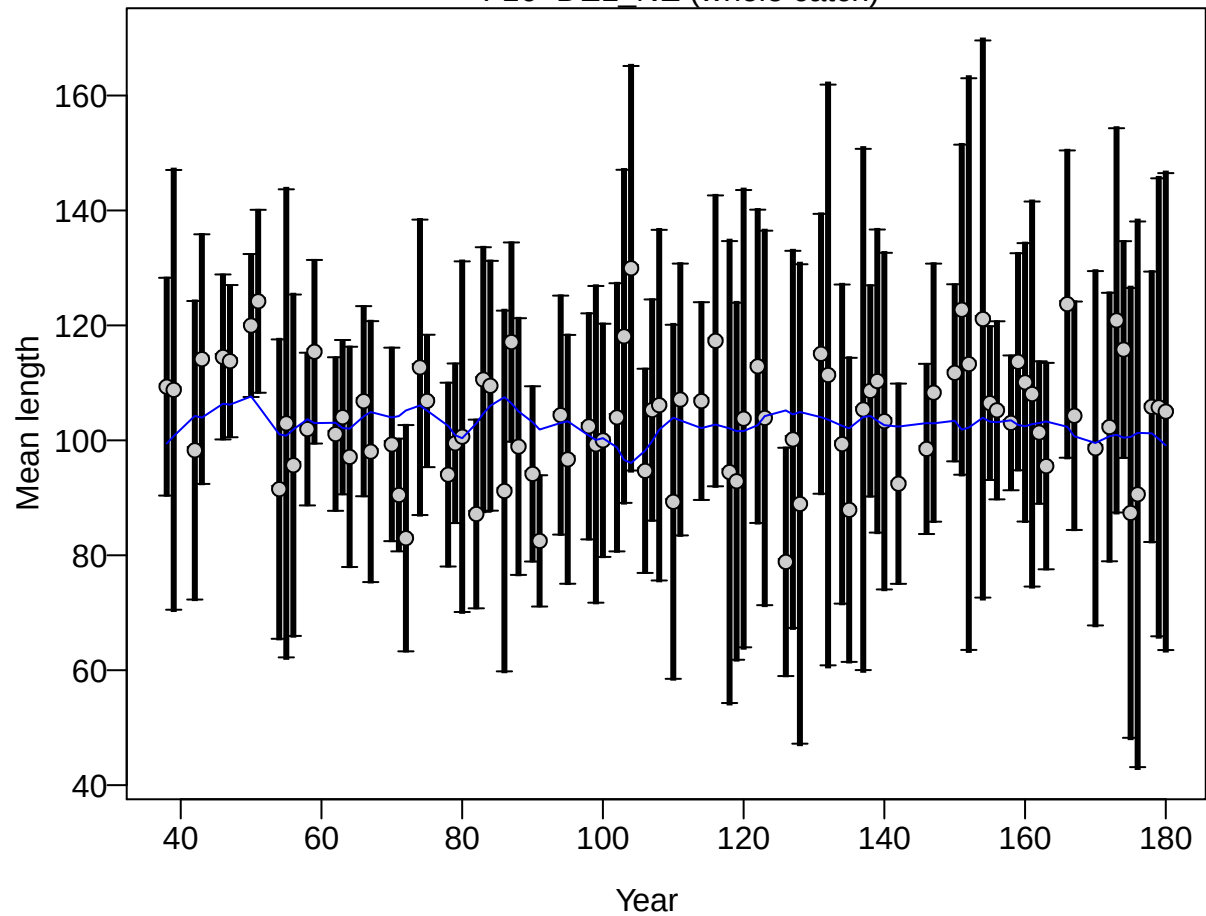




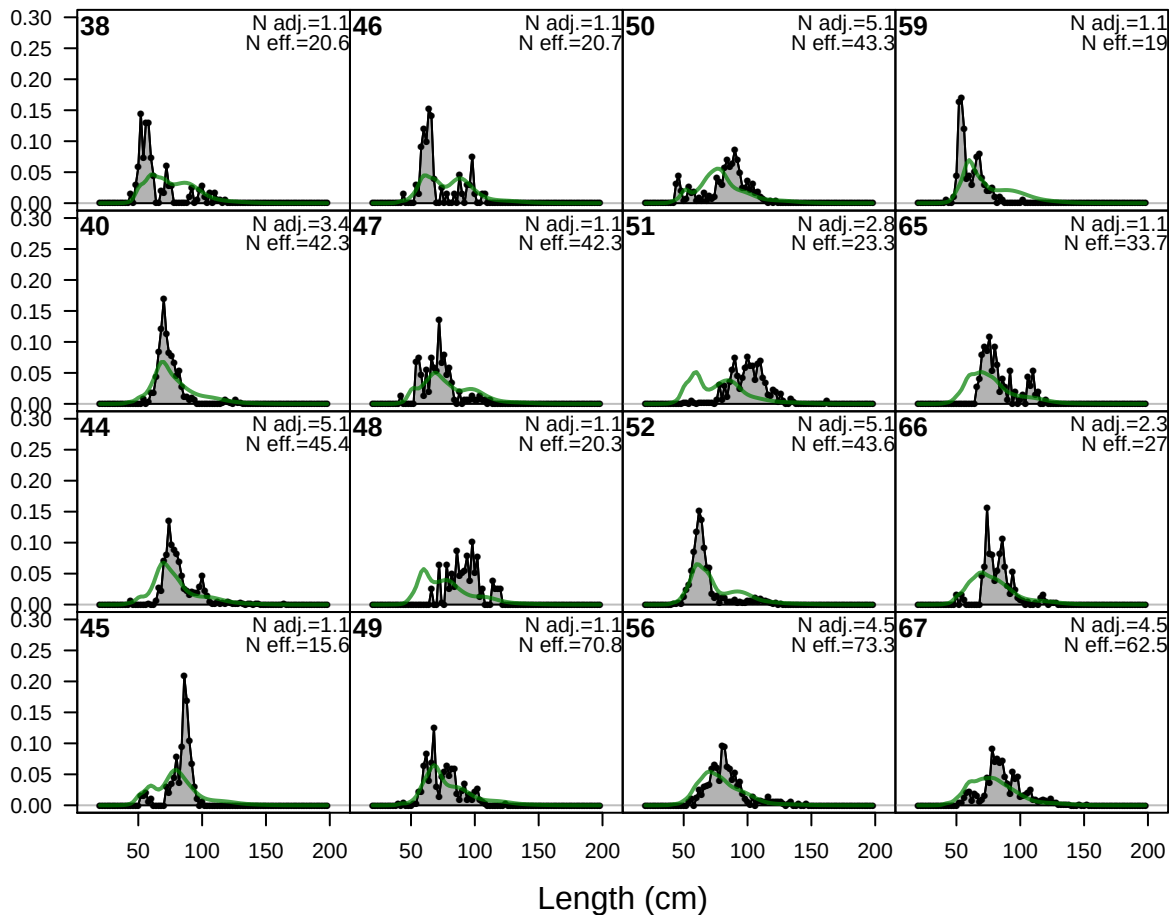
Effective sample size



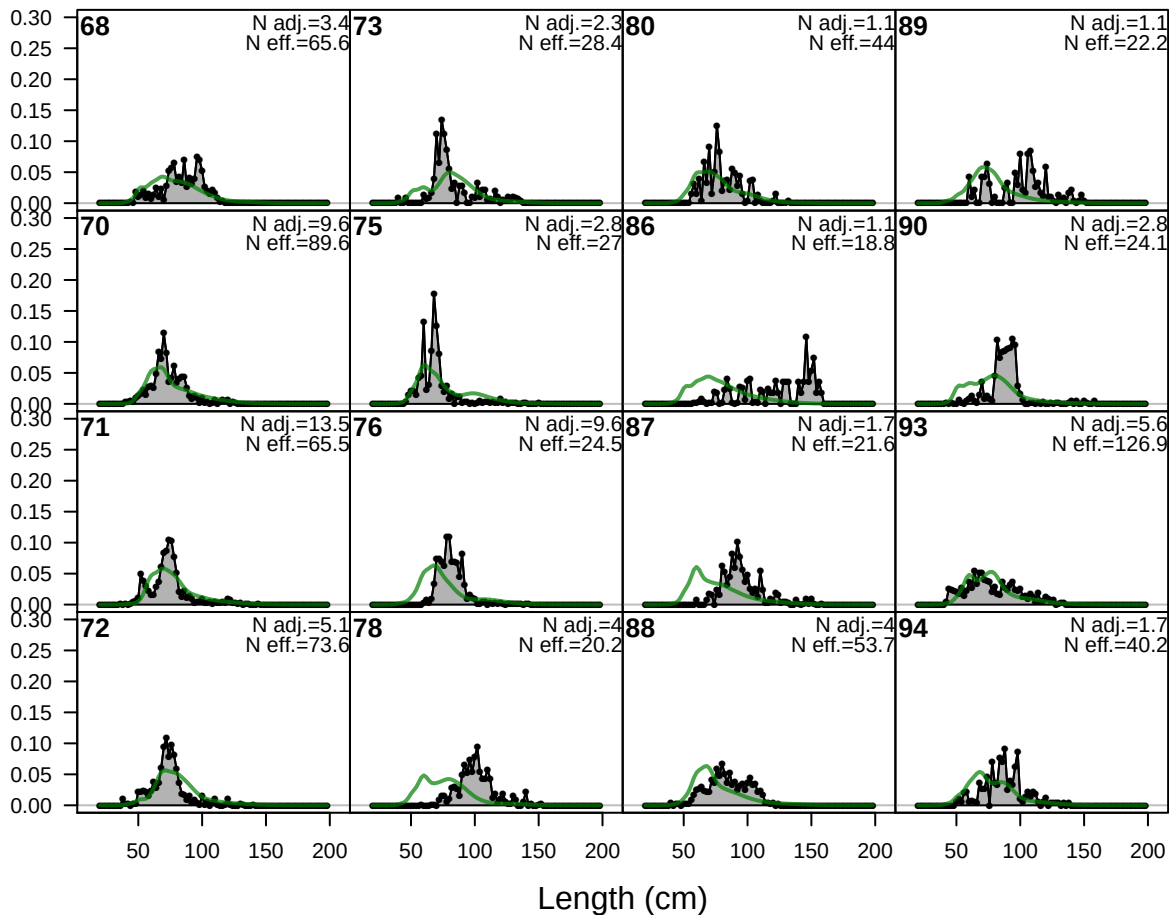
F16-DEL\_NE (whole catch)

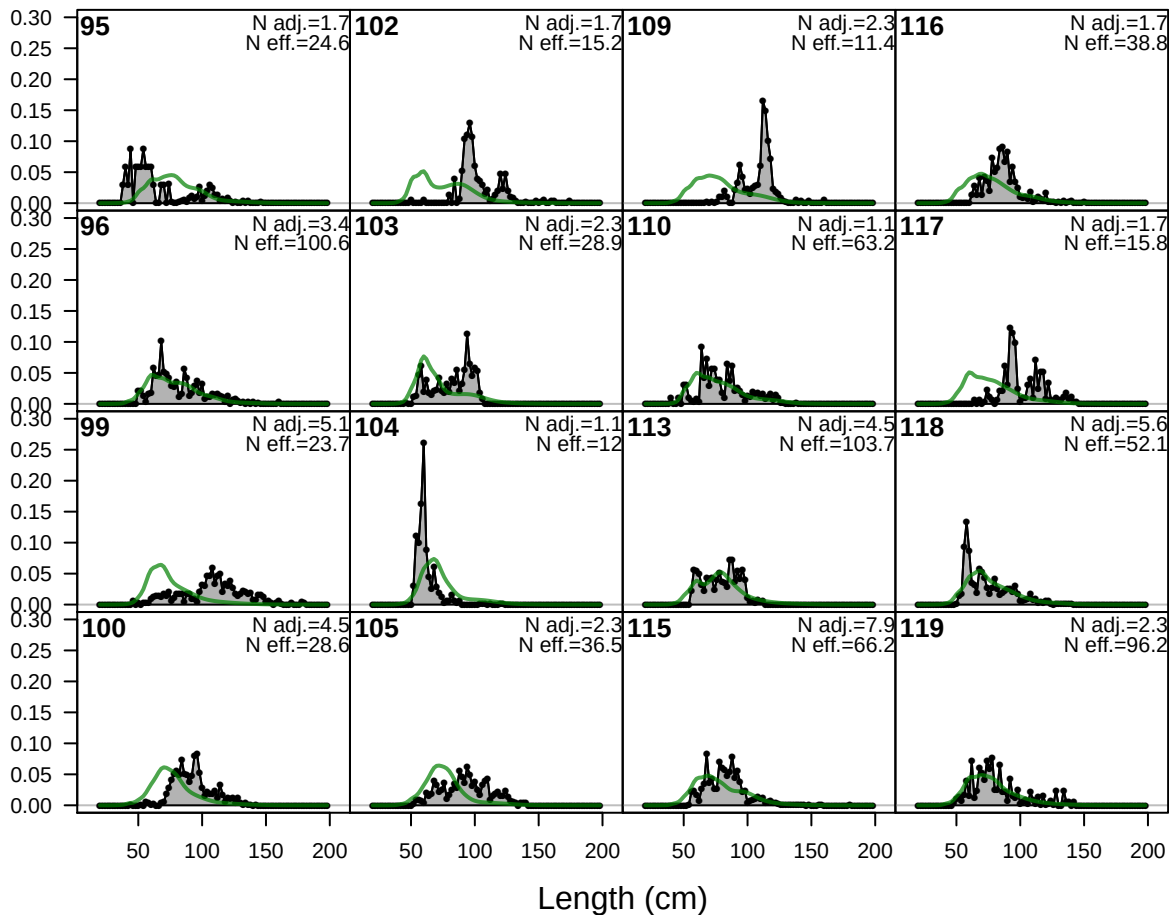


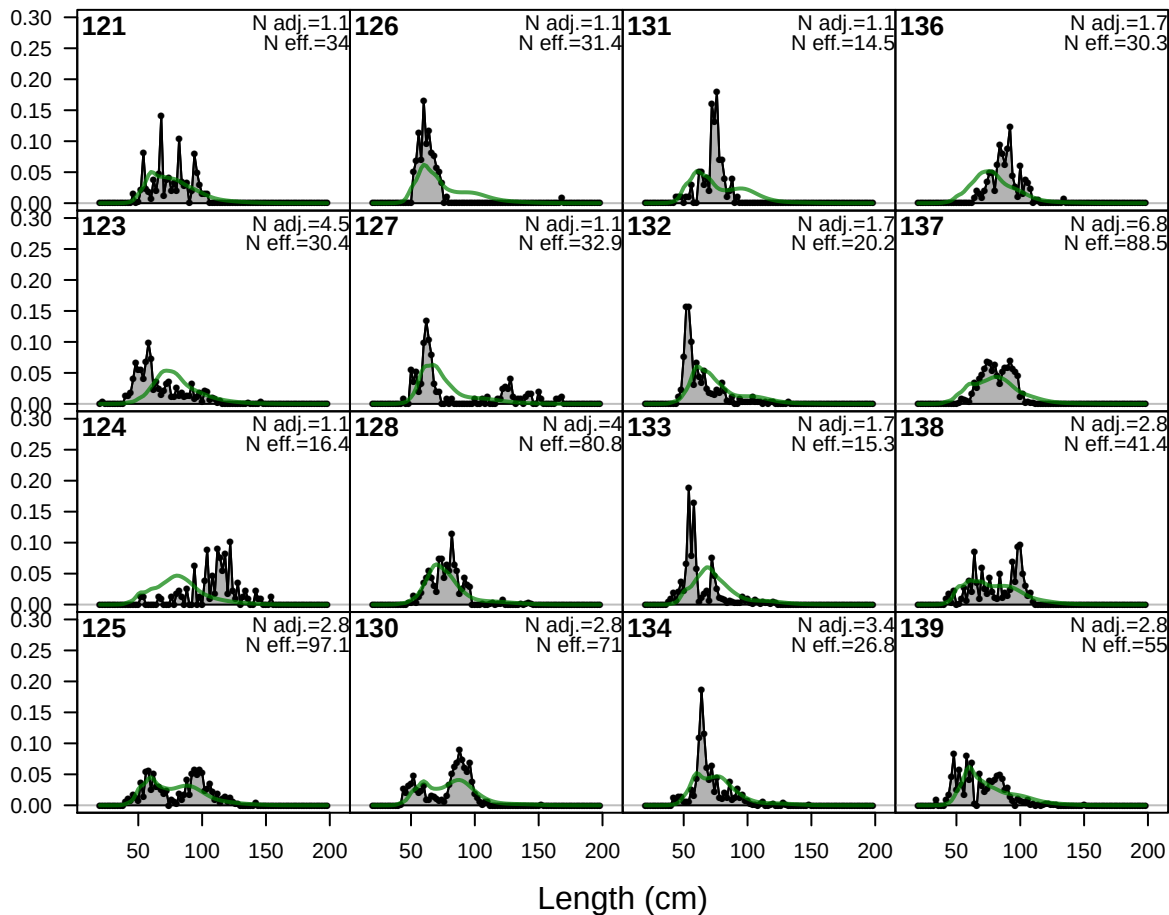


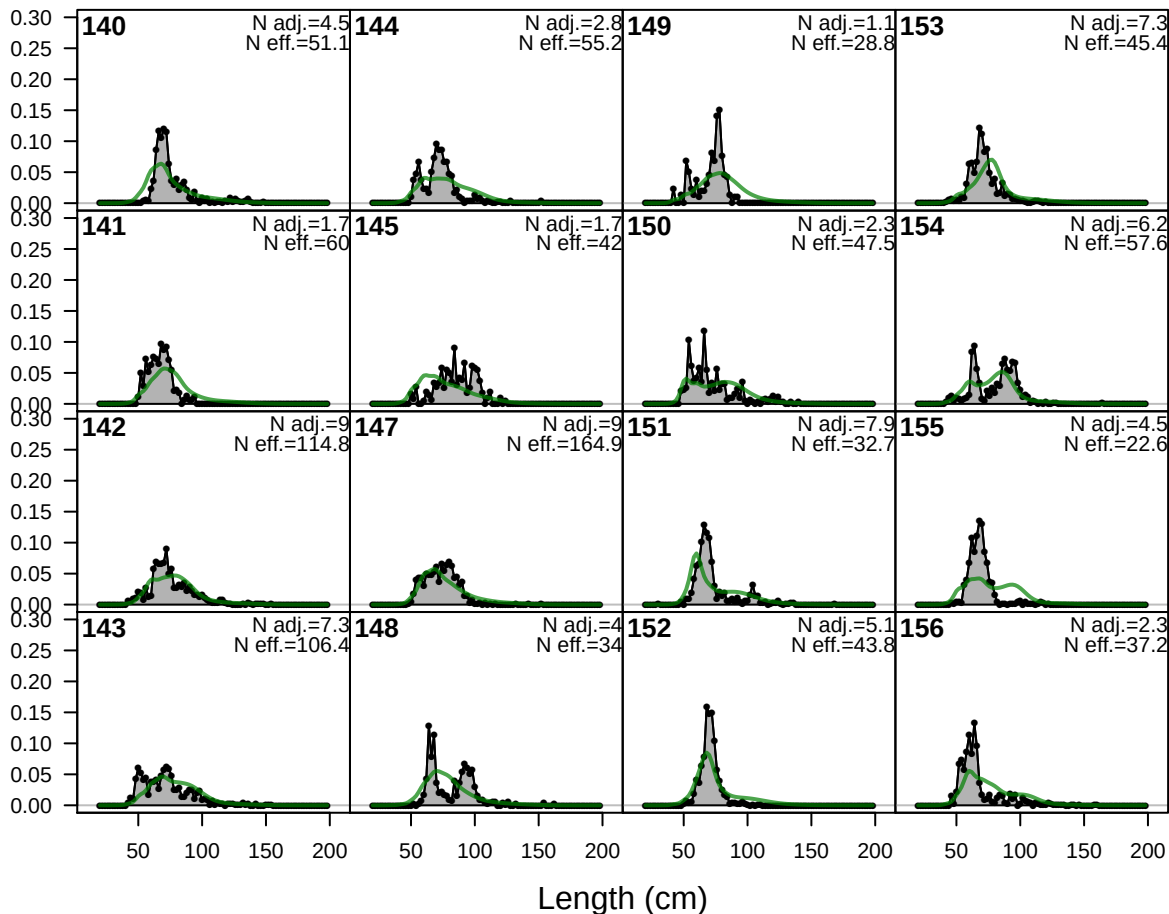


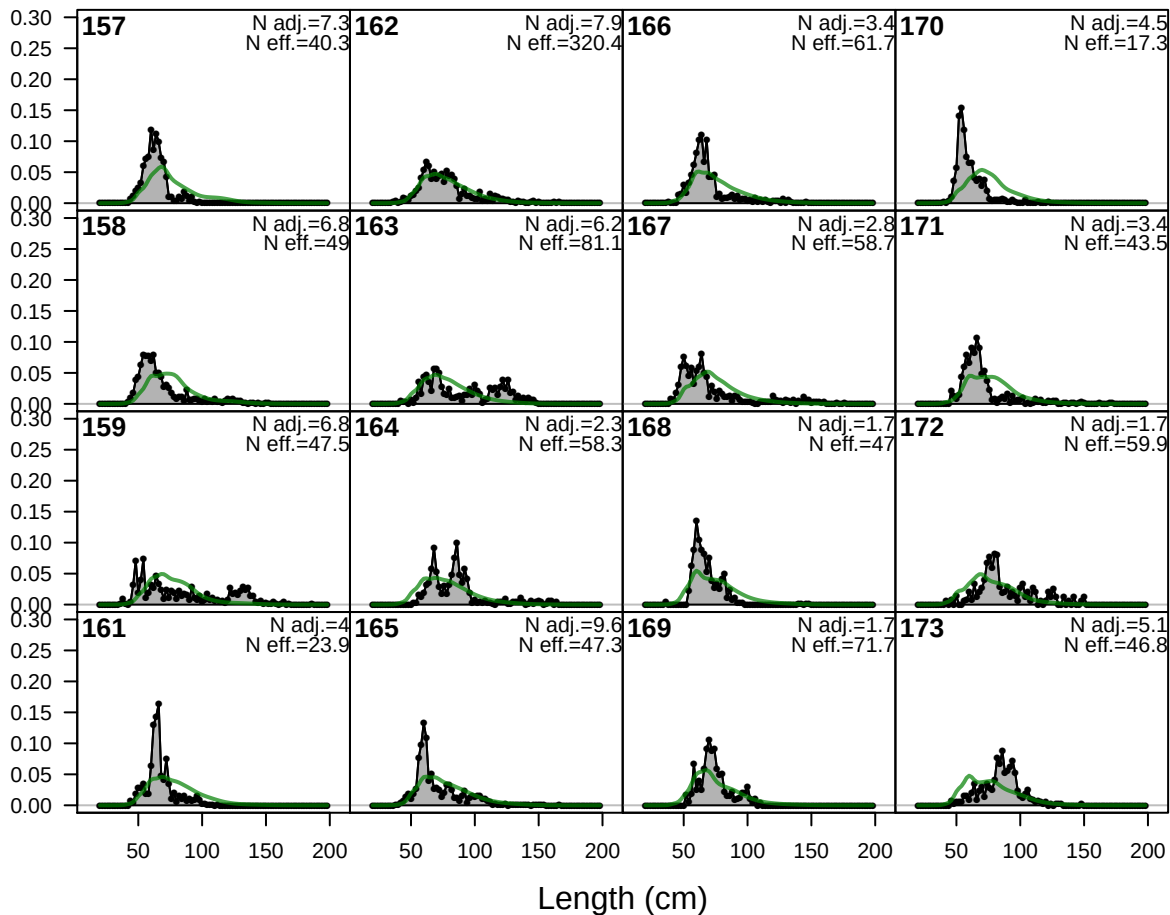
Proportion



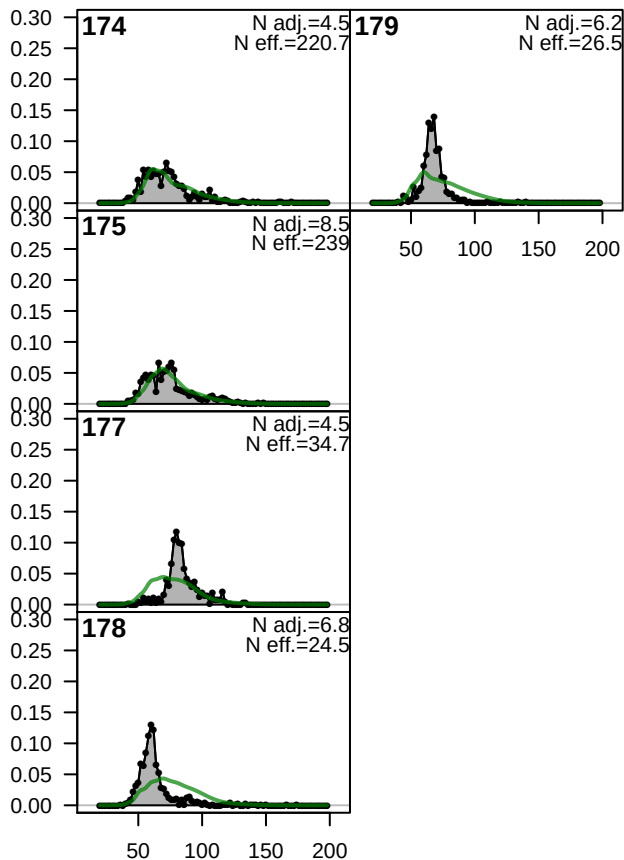




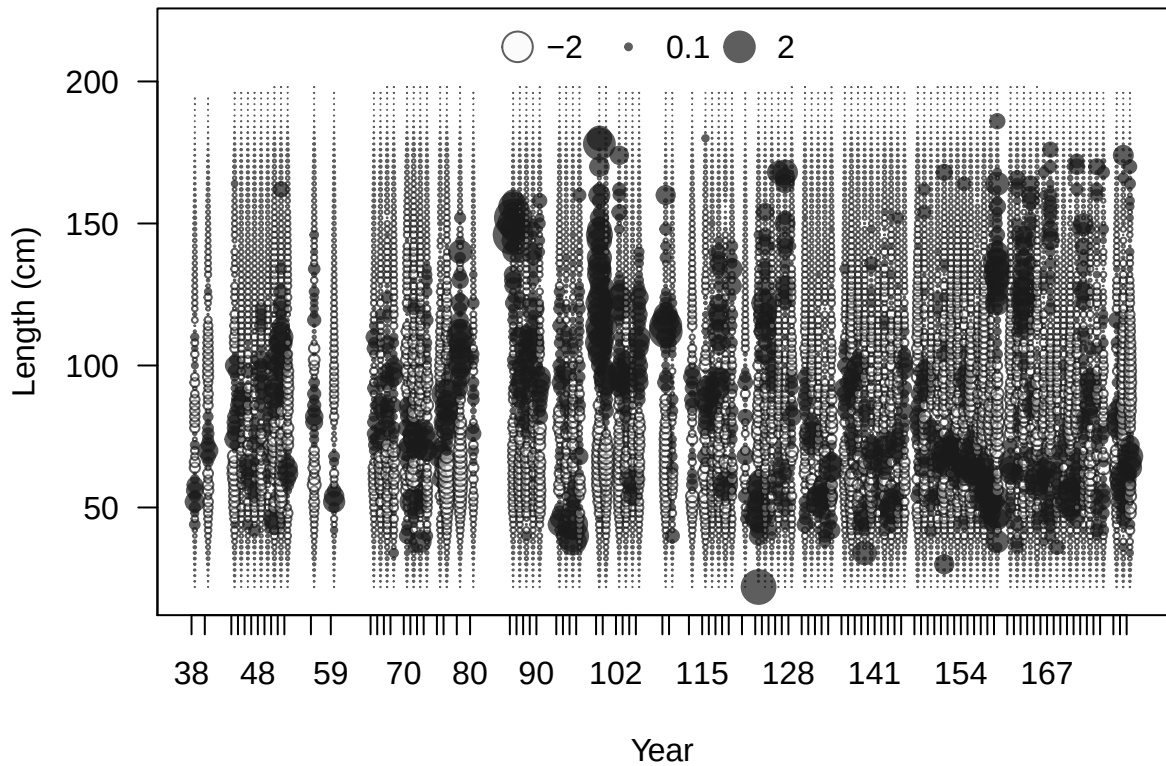




Proportion

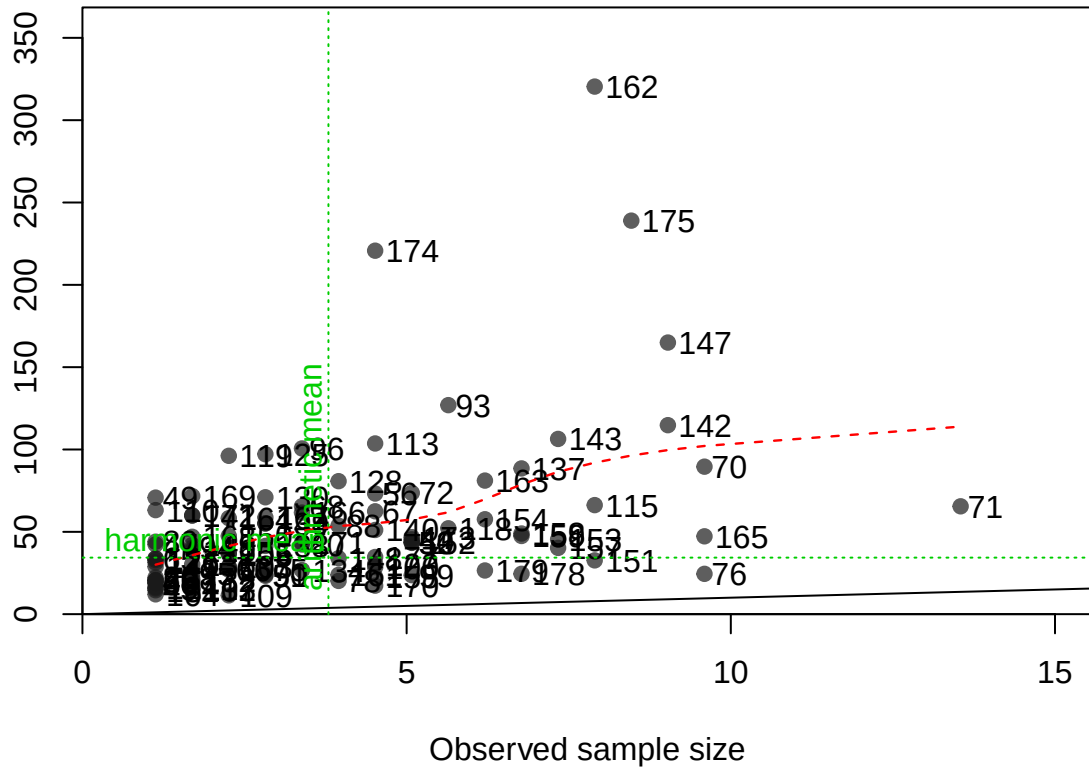


Length (cm)

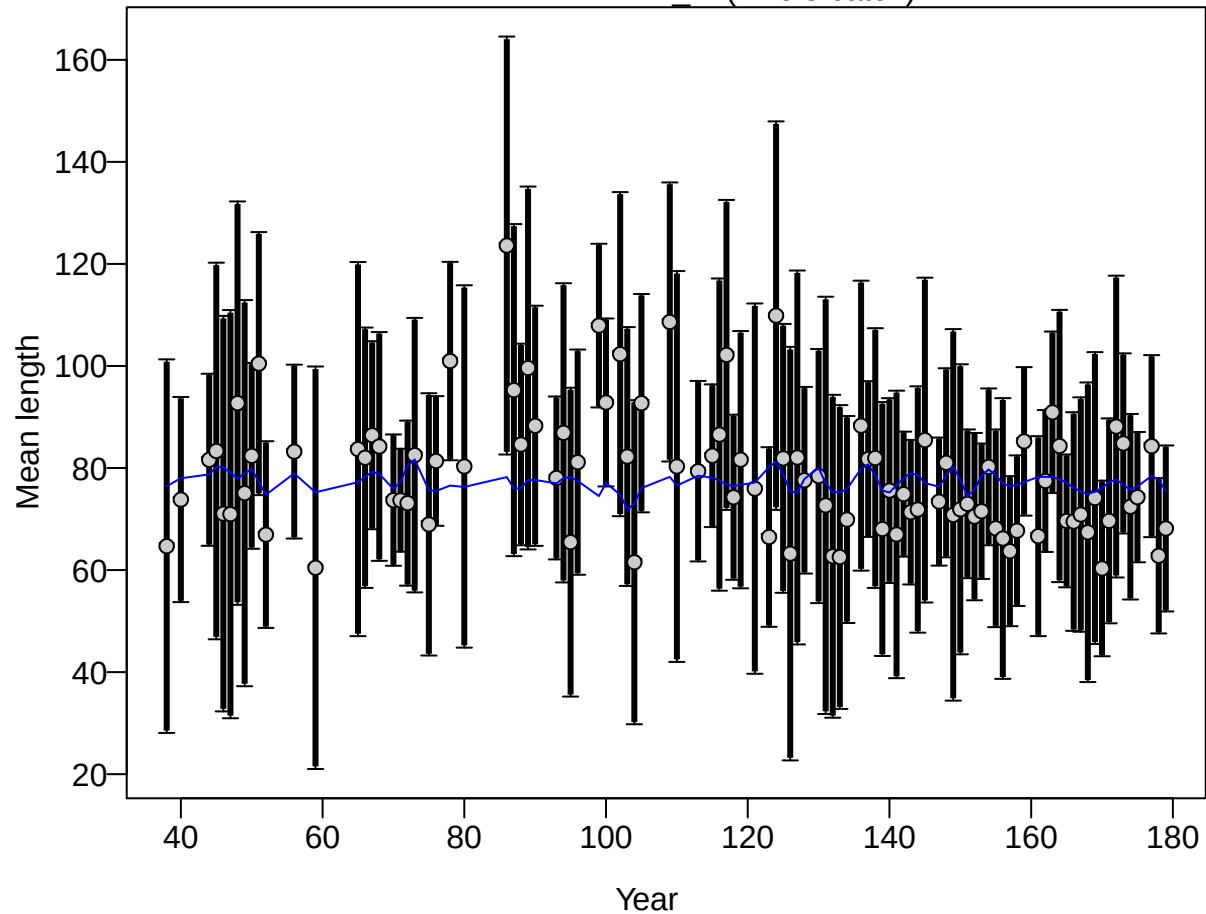


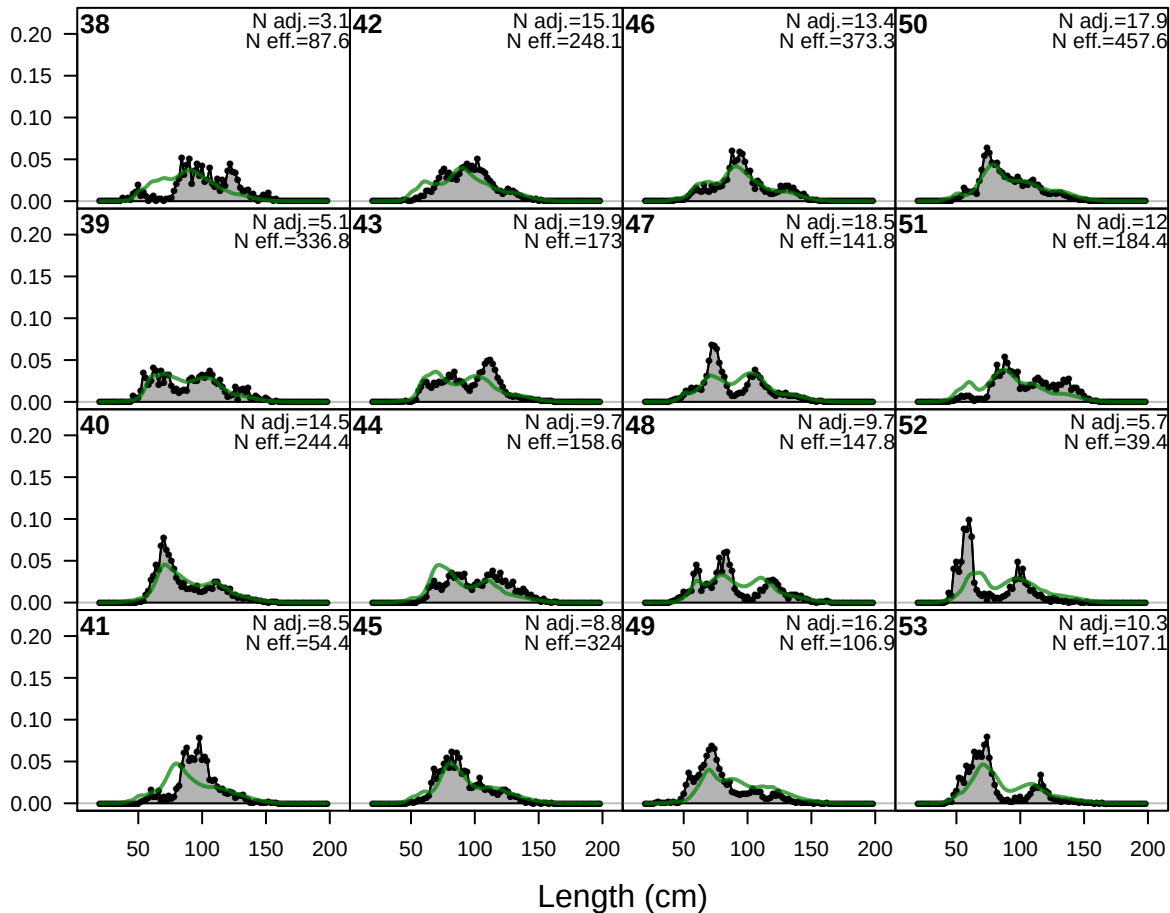


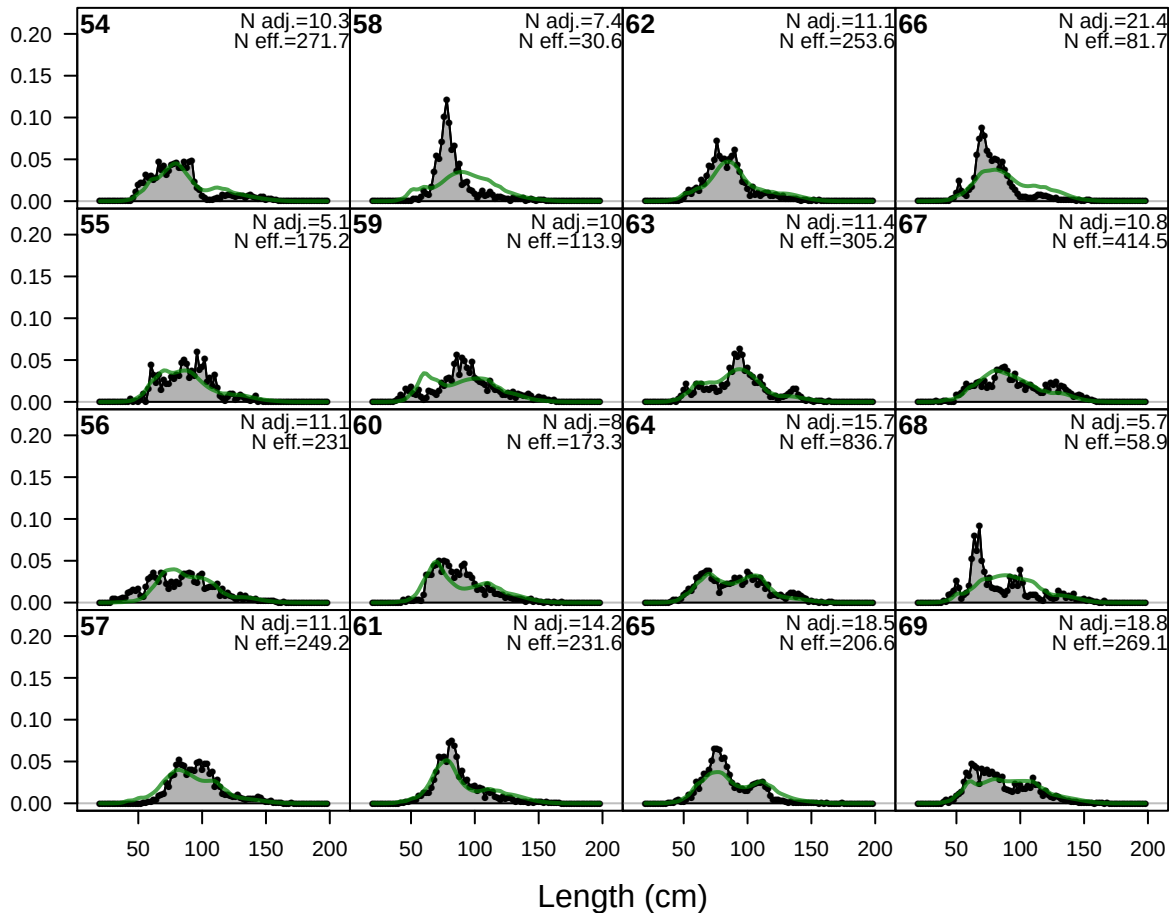
Effective sample size

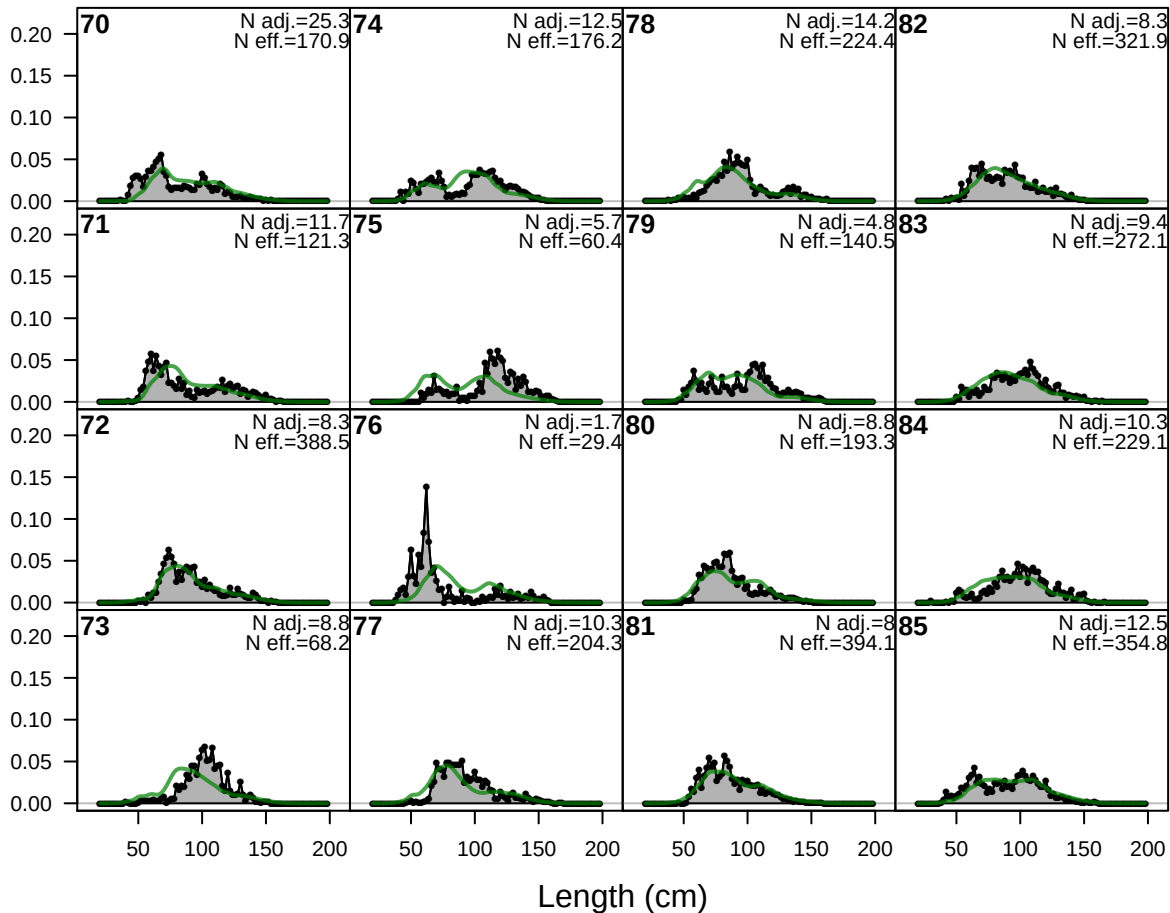


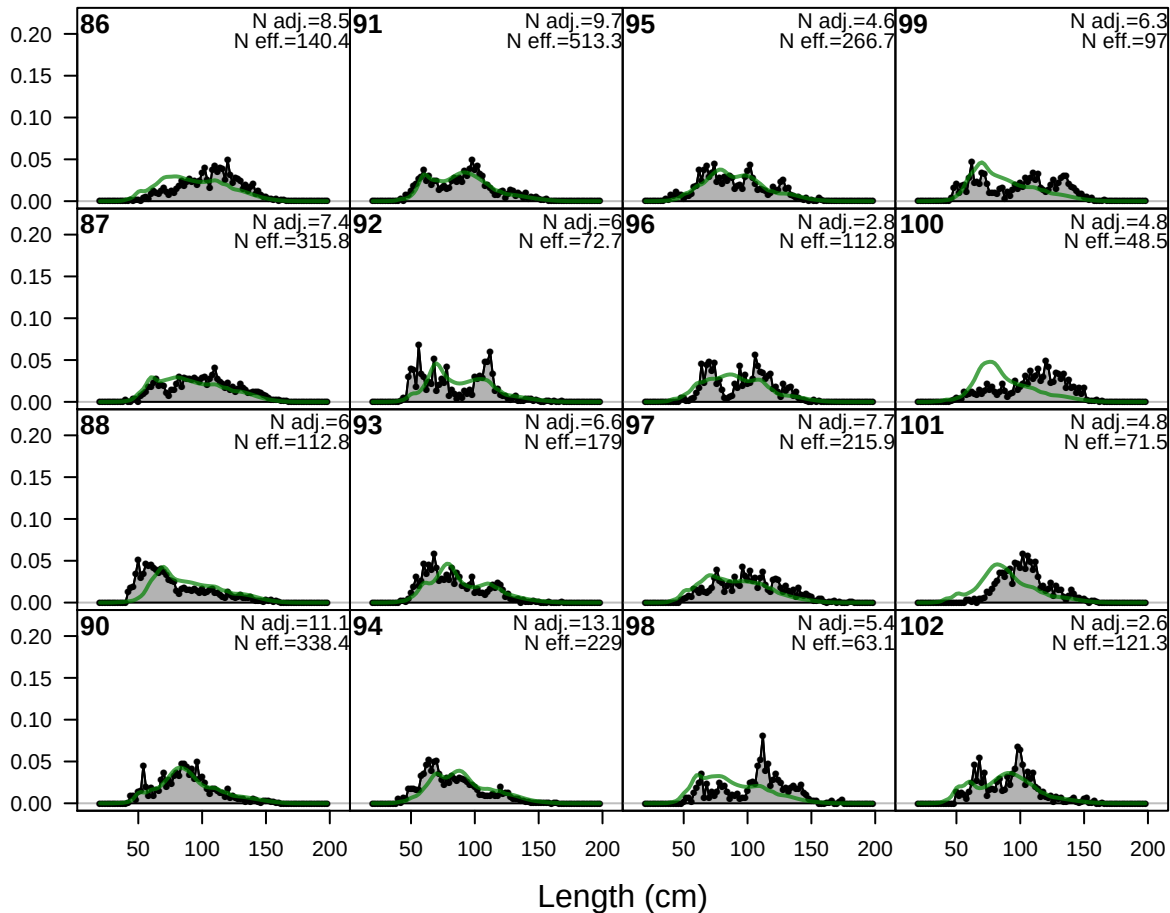
F17-DEL\_M (whole catch)

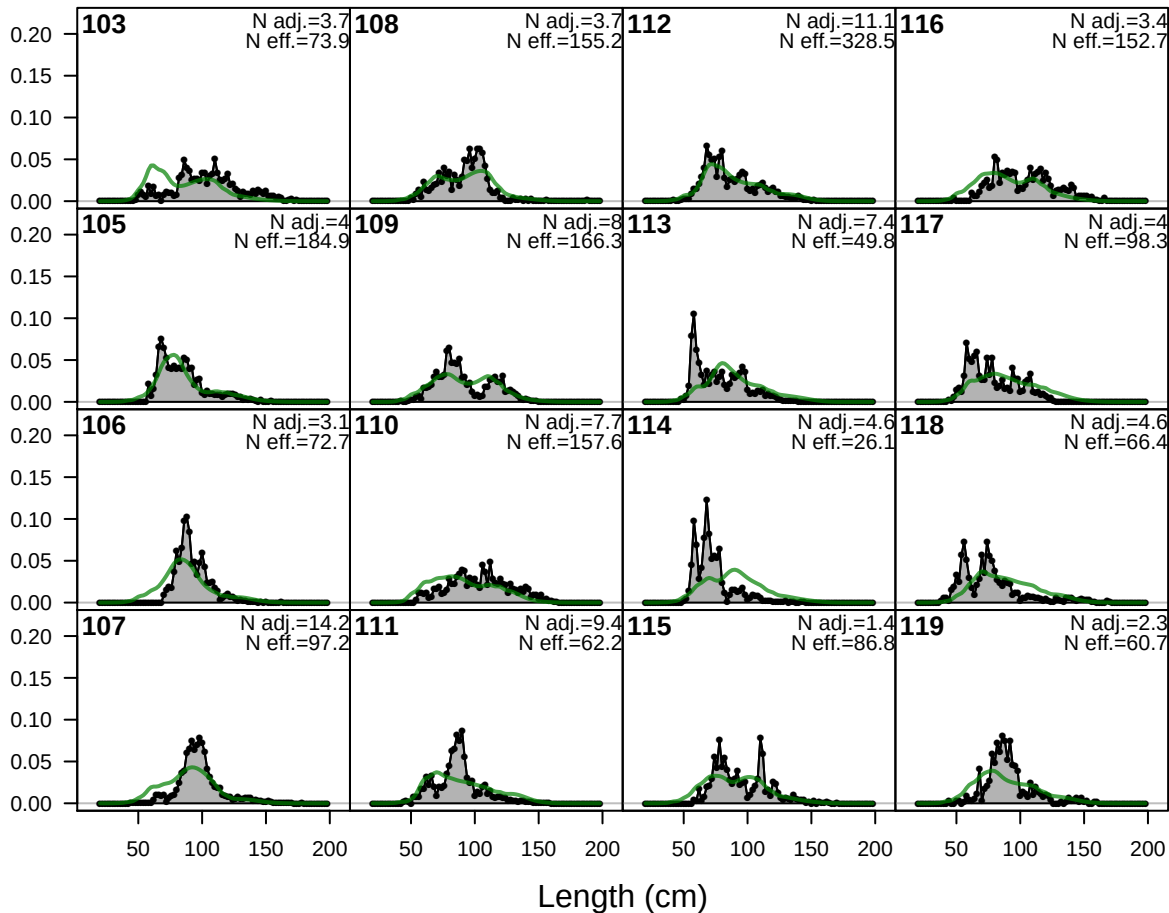


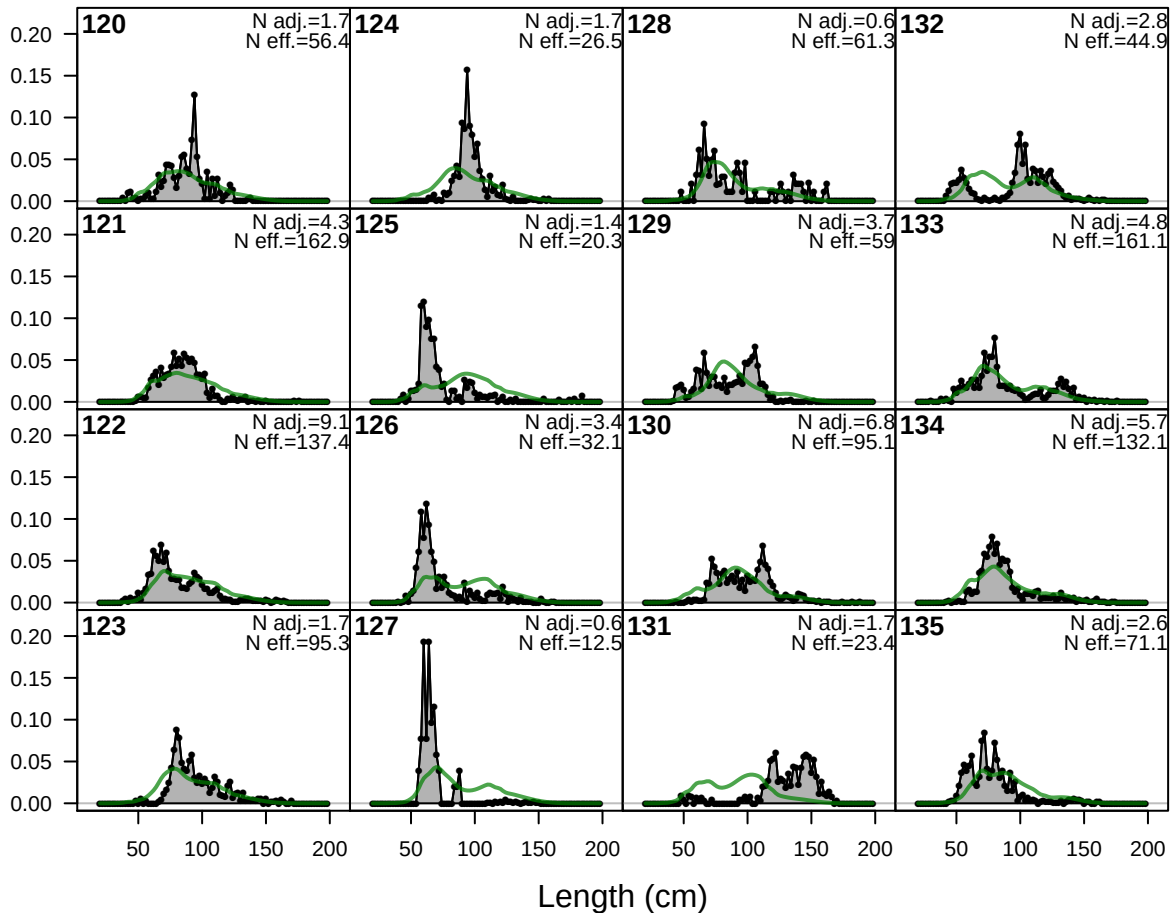




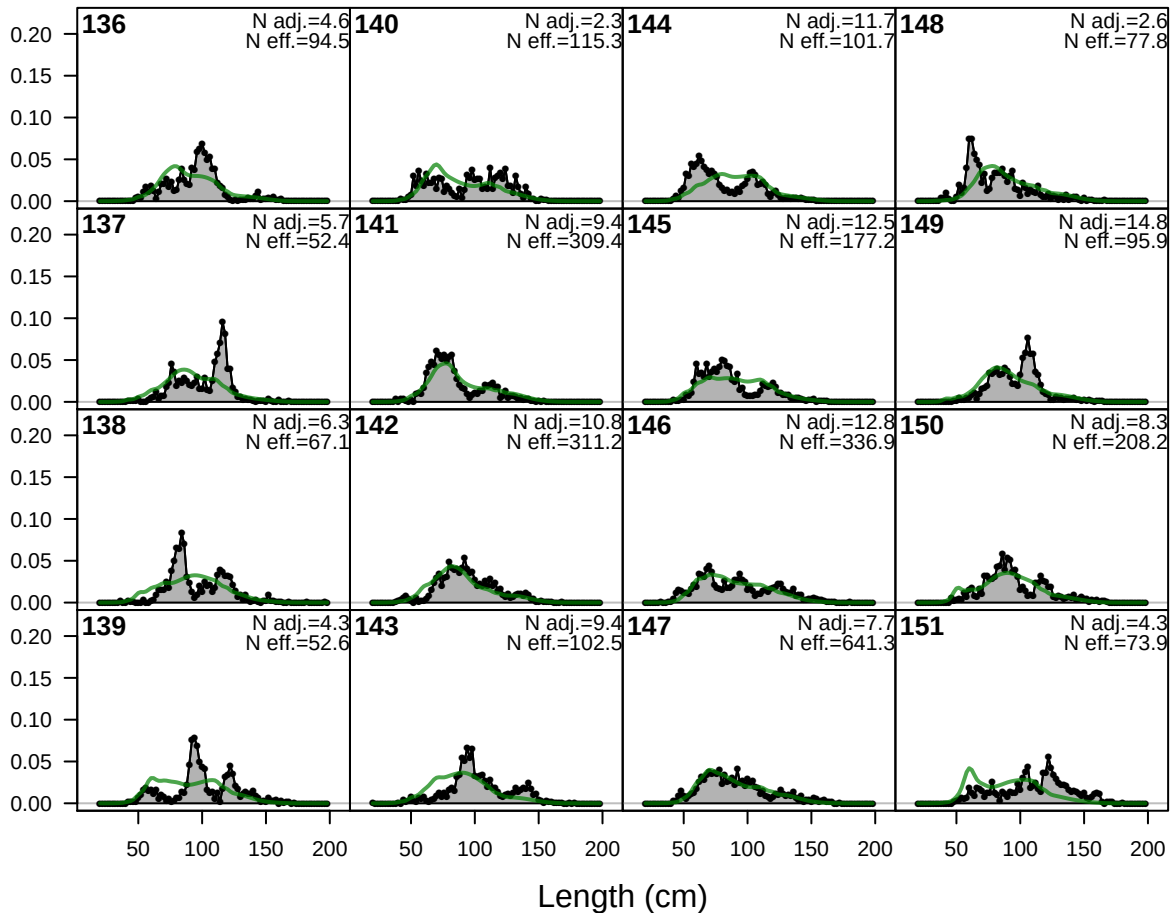


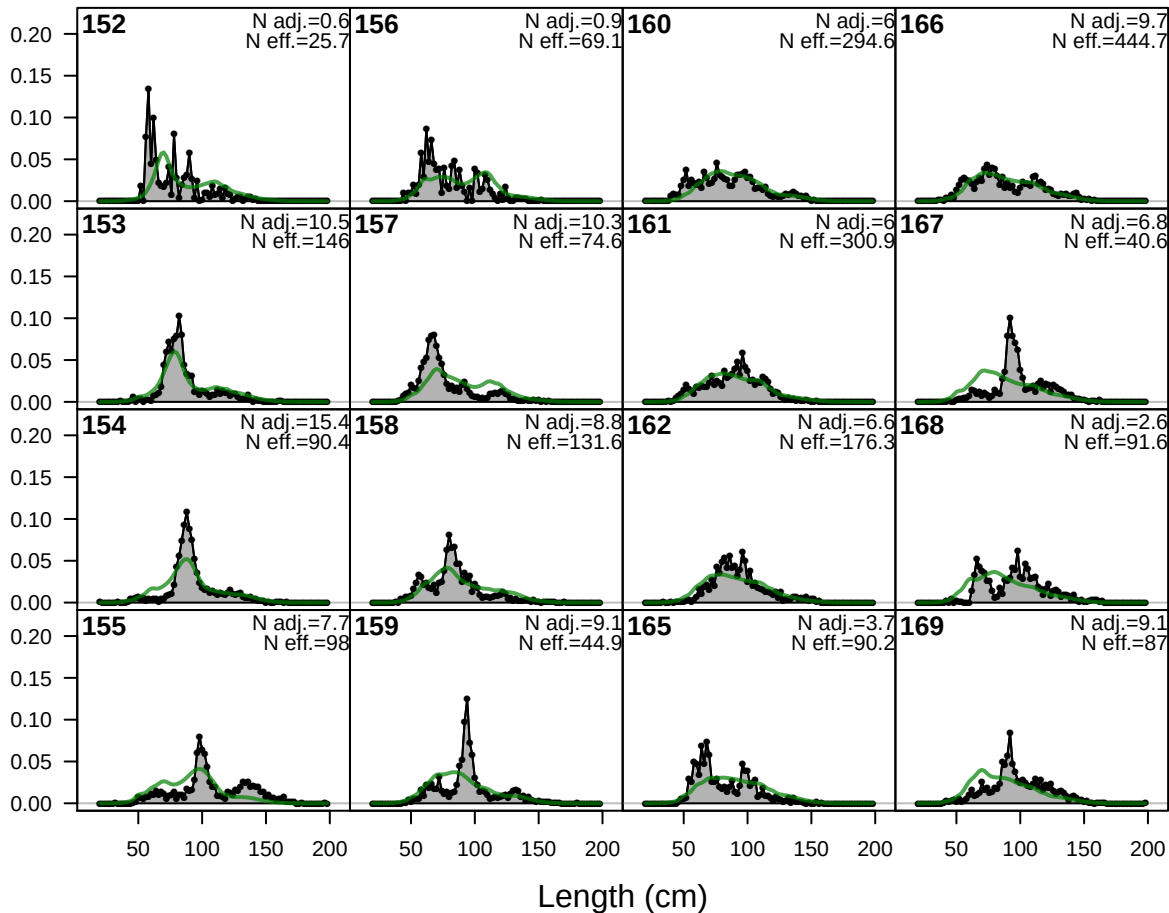




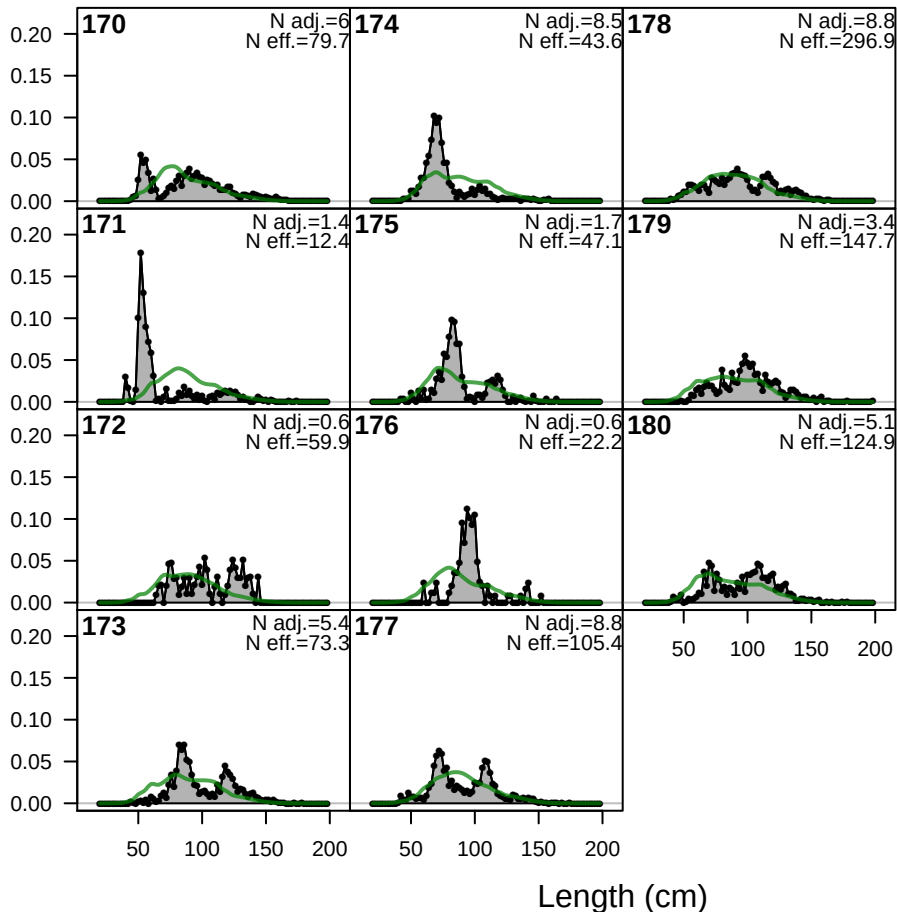




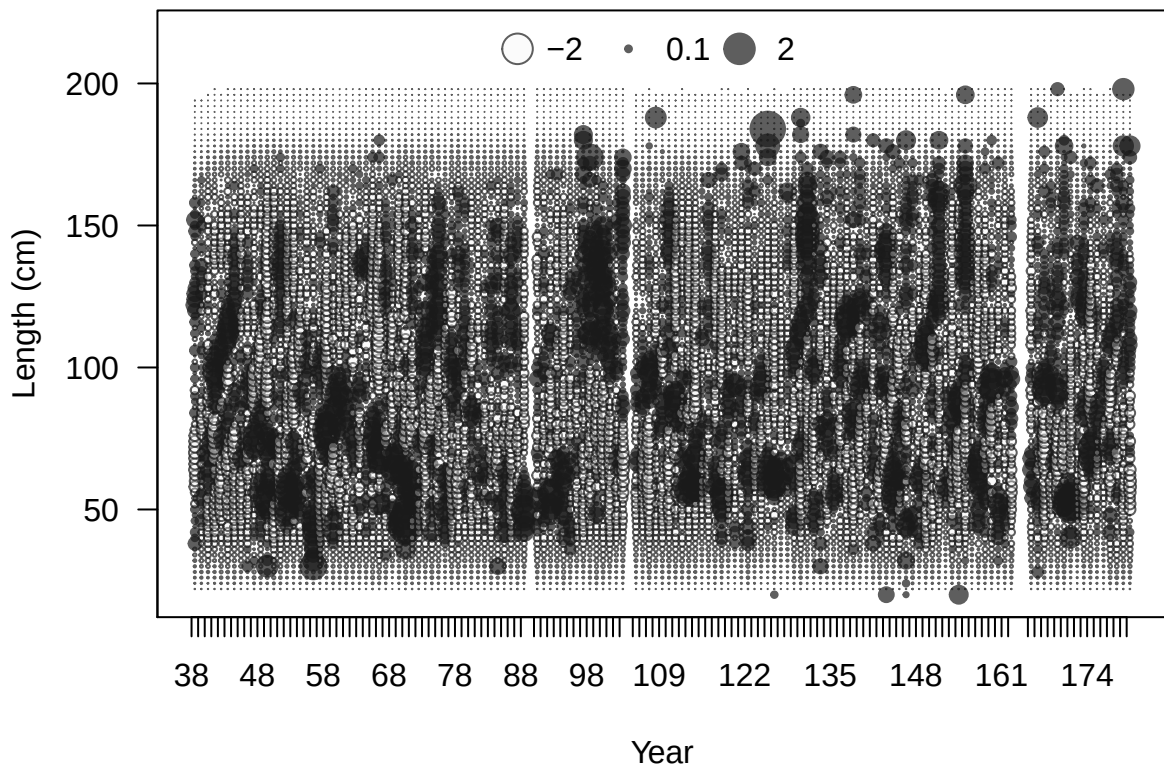




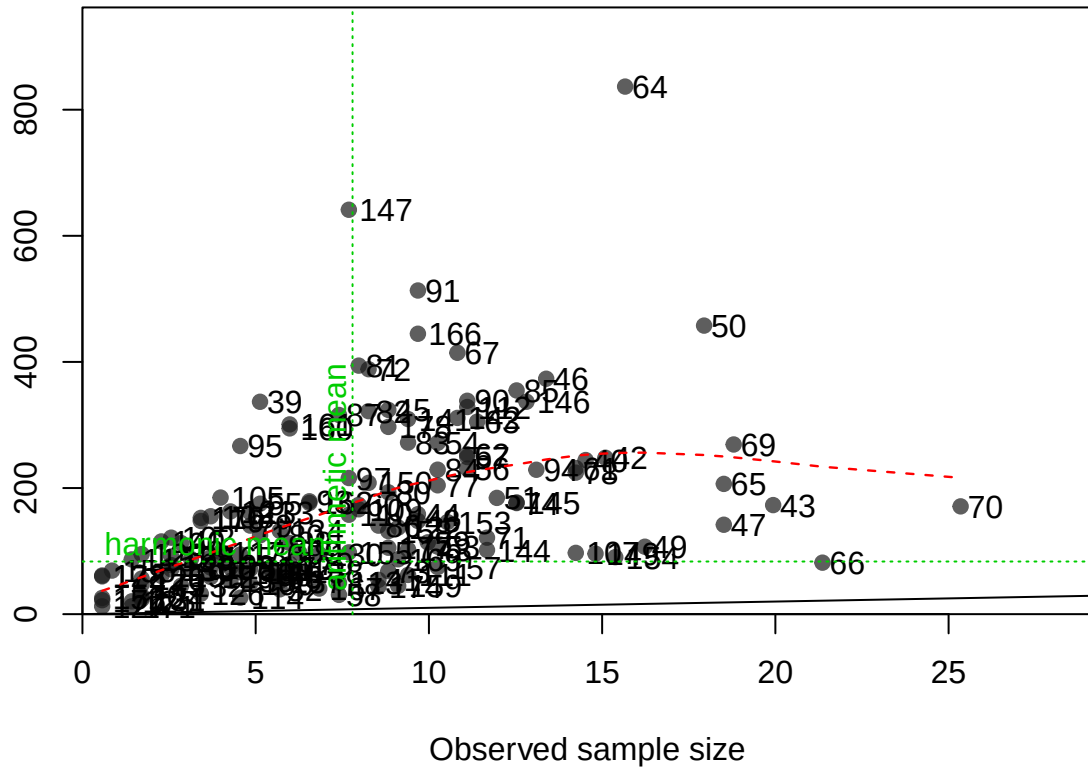
Proportion



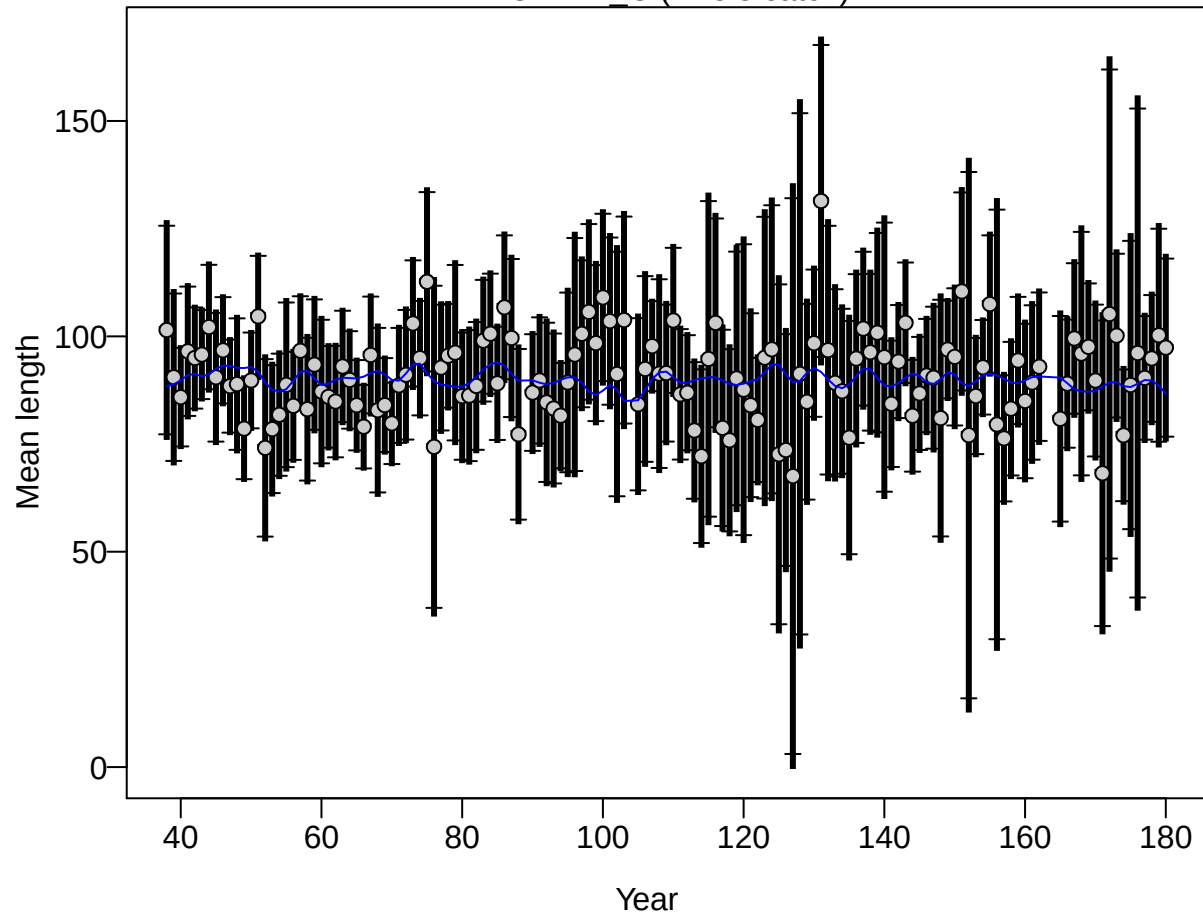
Length (cm)

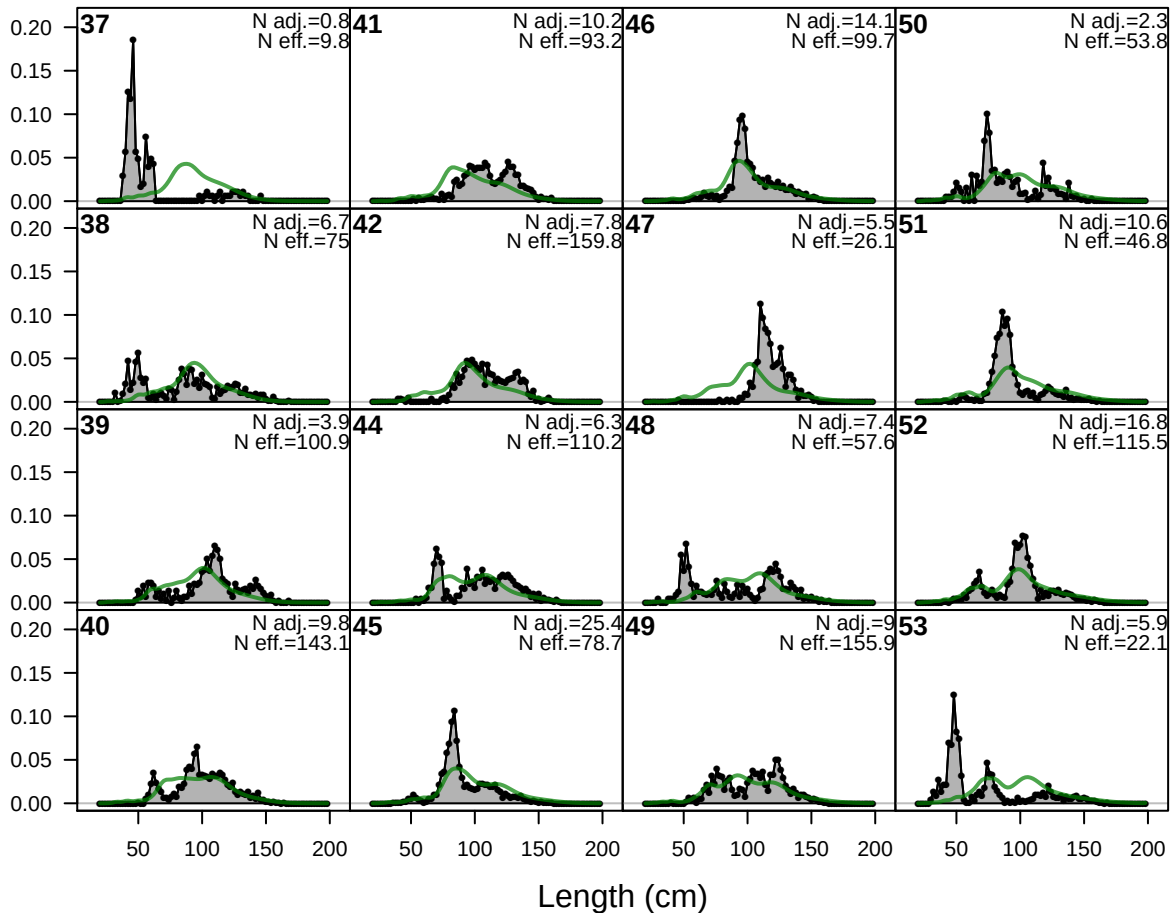


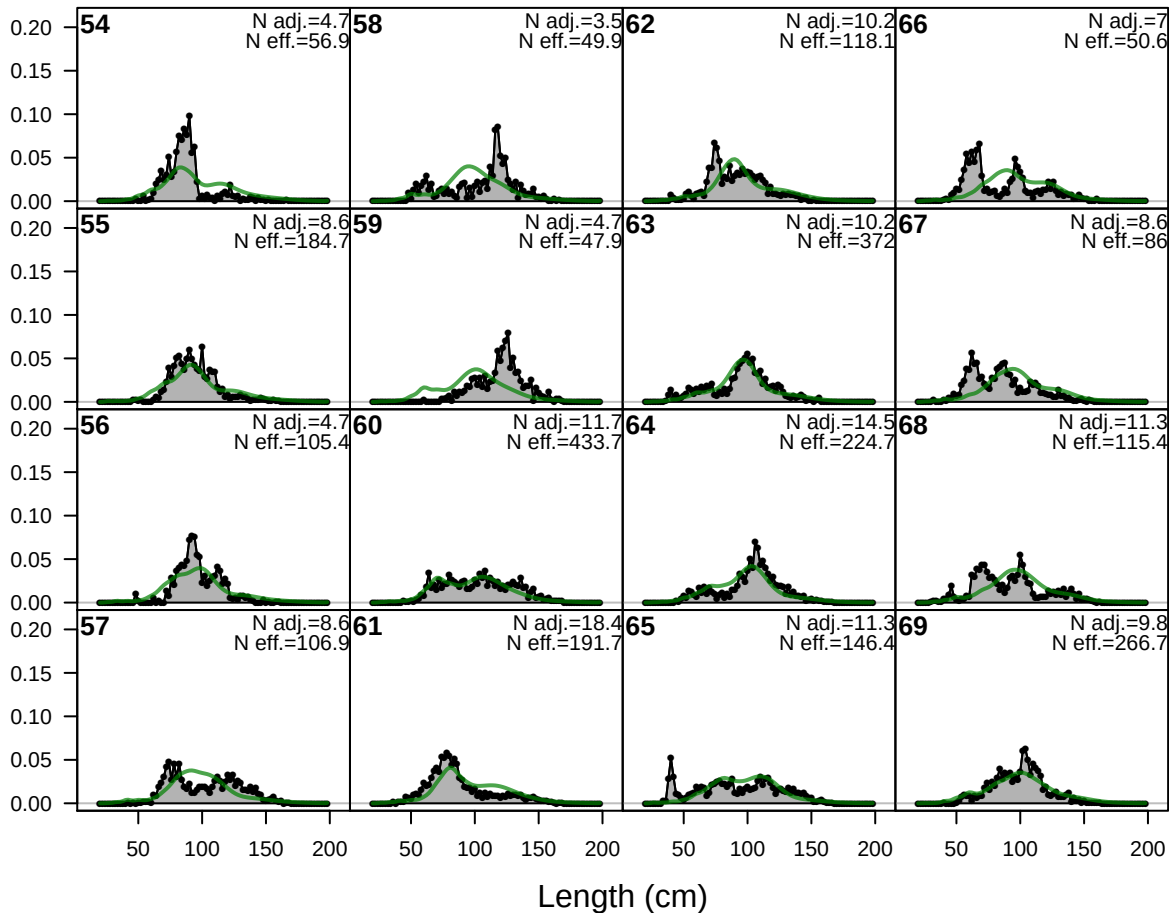
Effective sample size



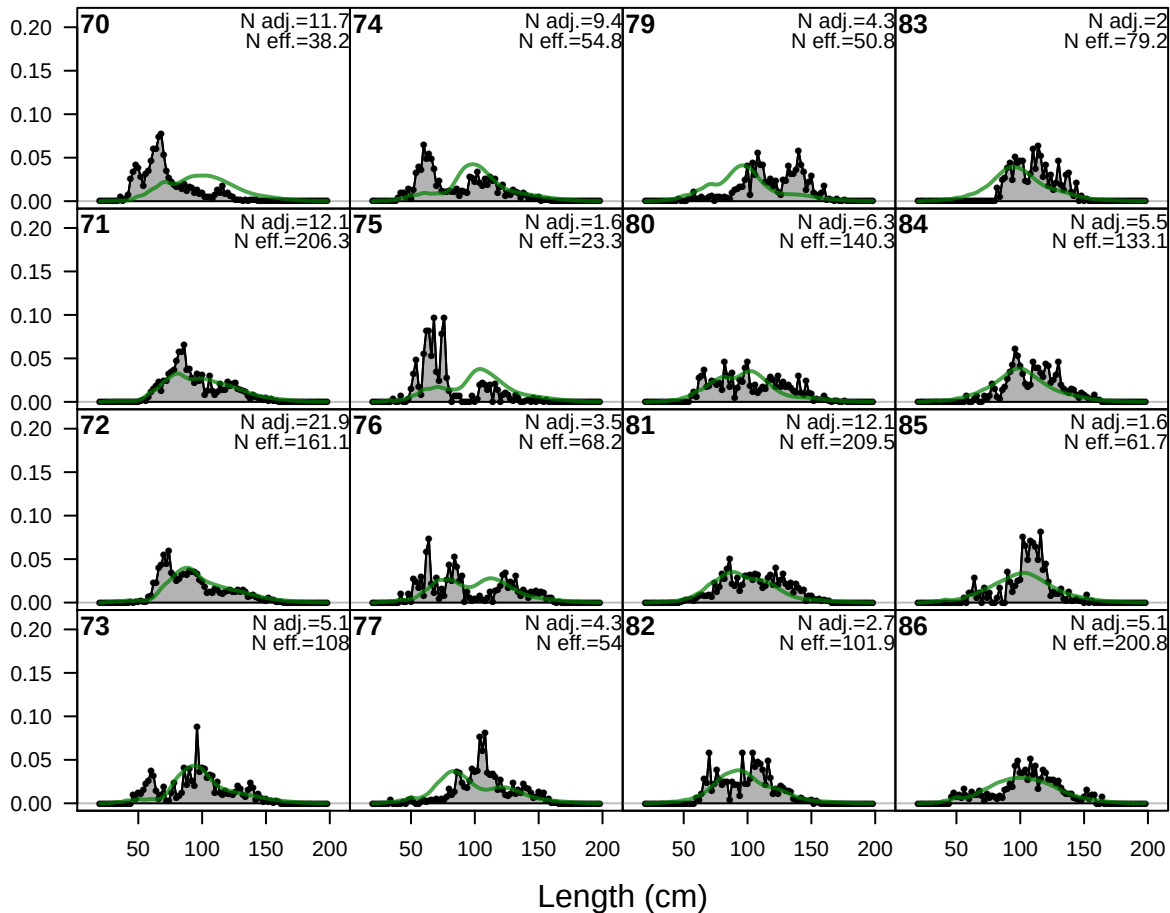
F18-DEL\_C (whole catch)

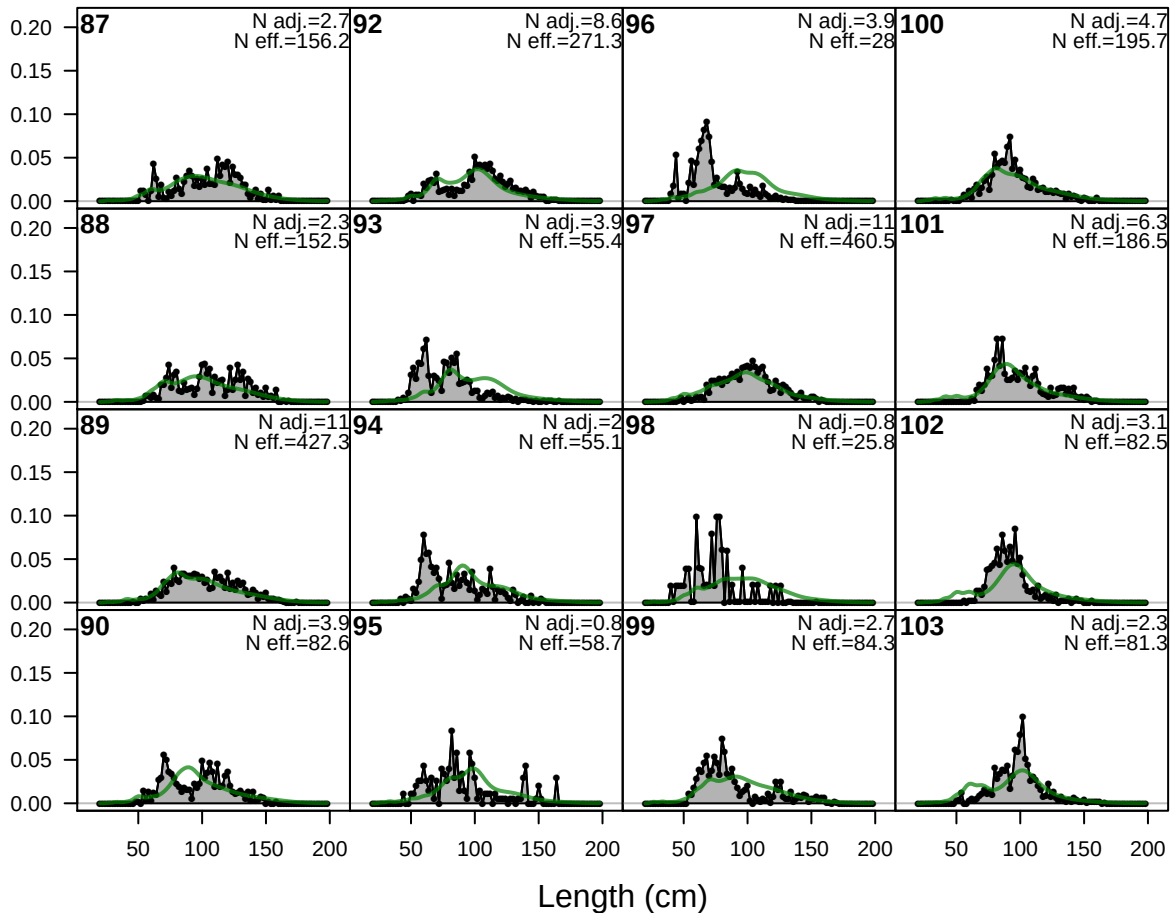


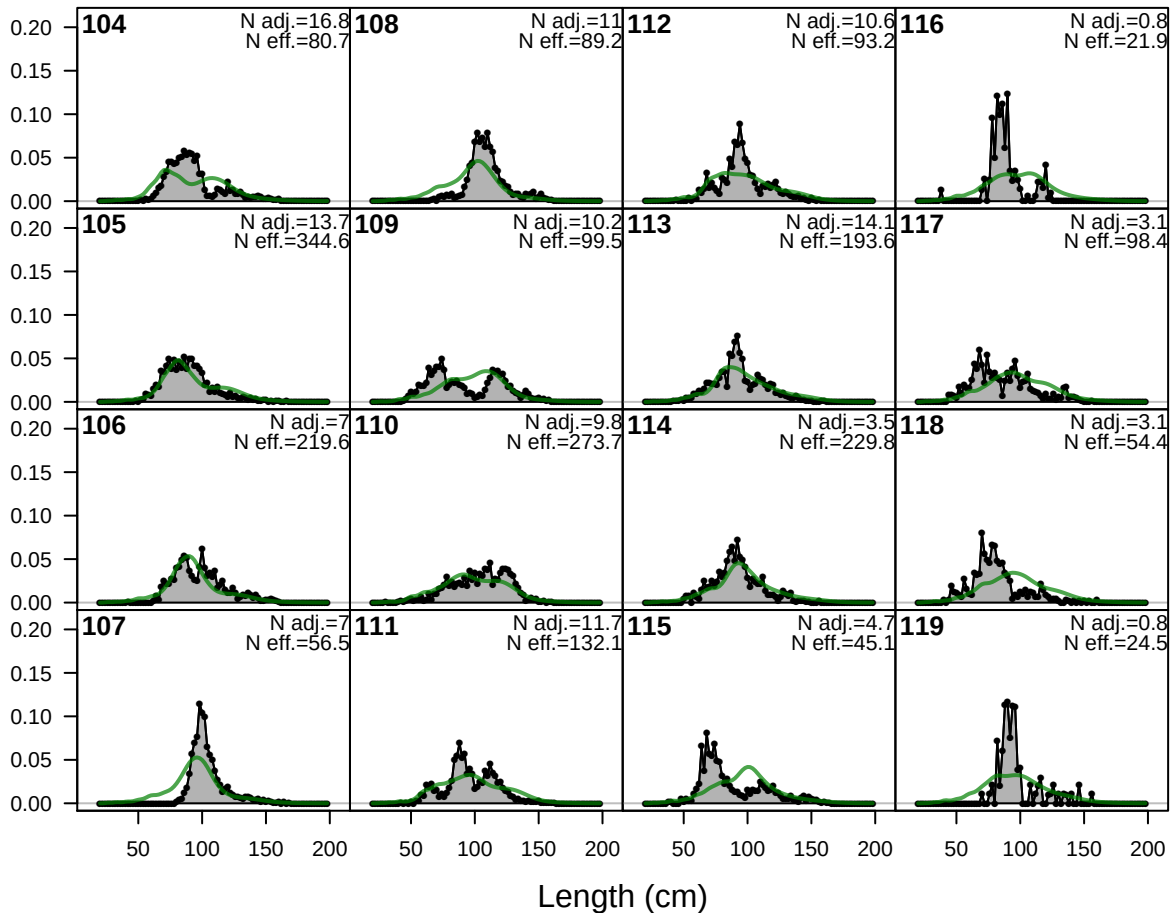


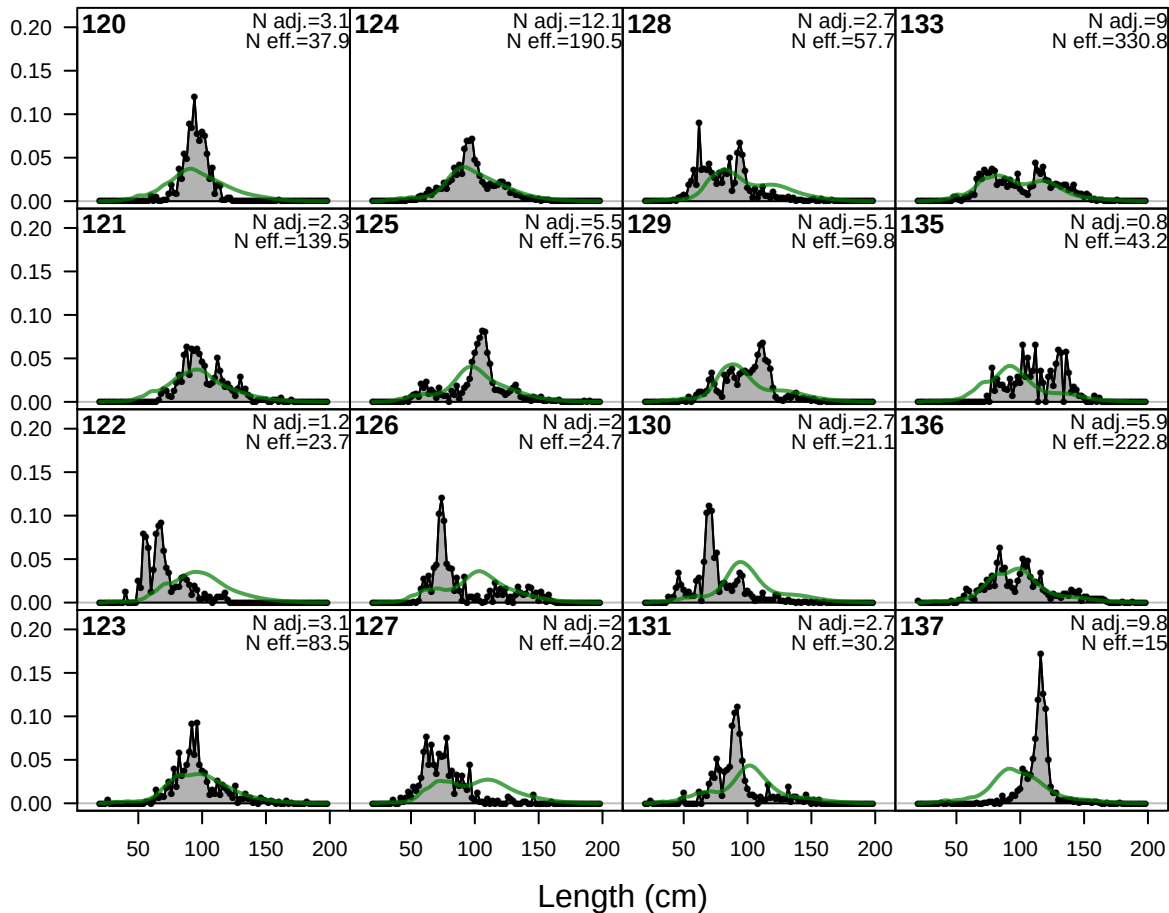


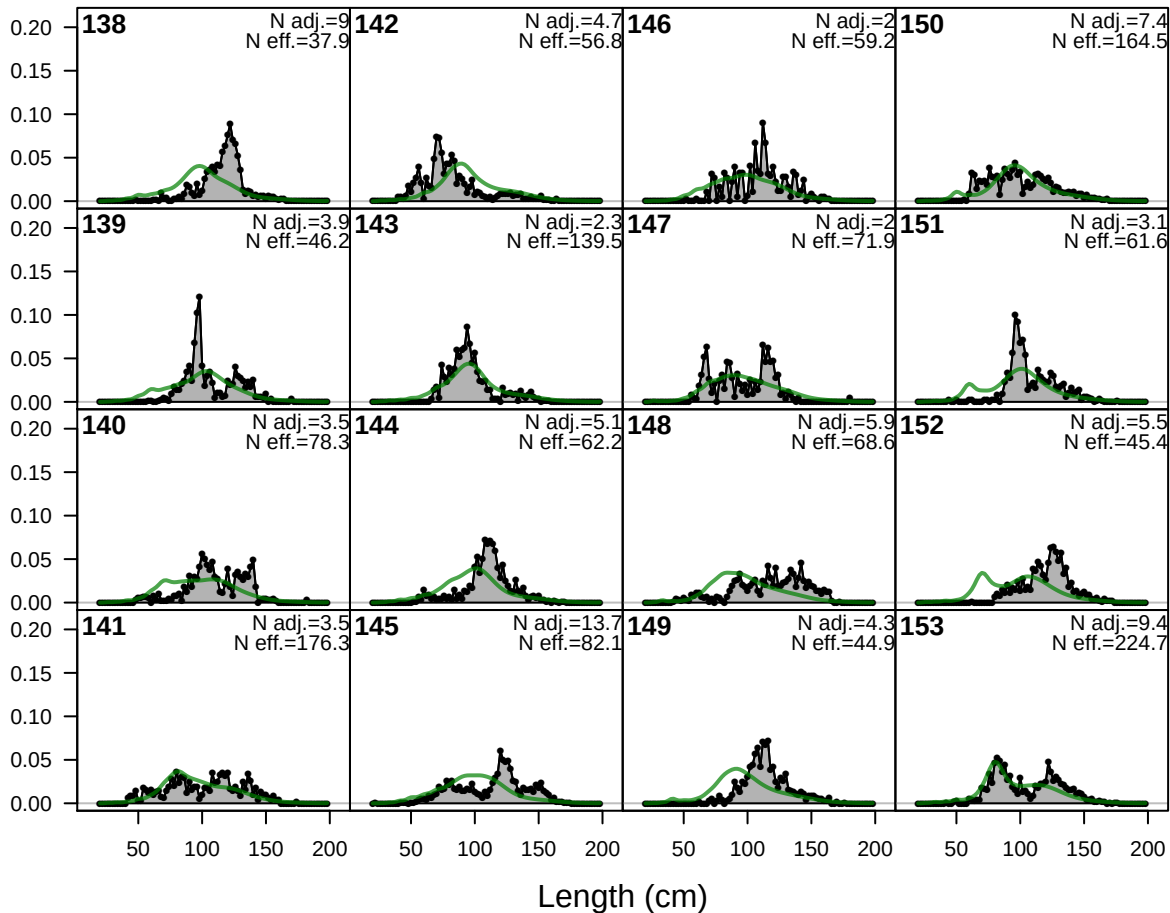


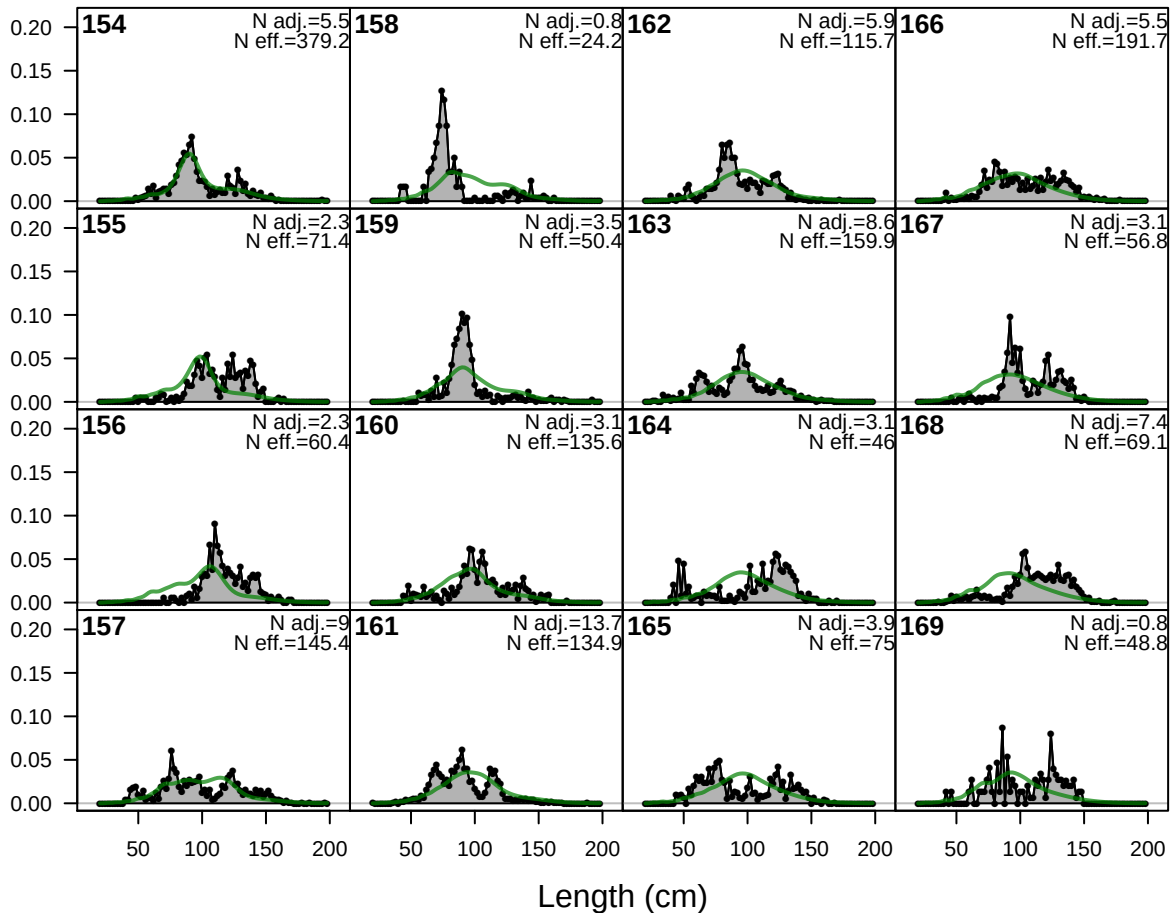




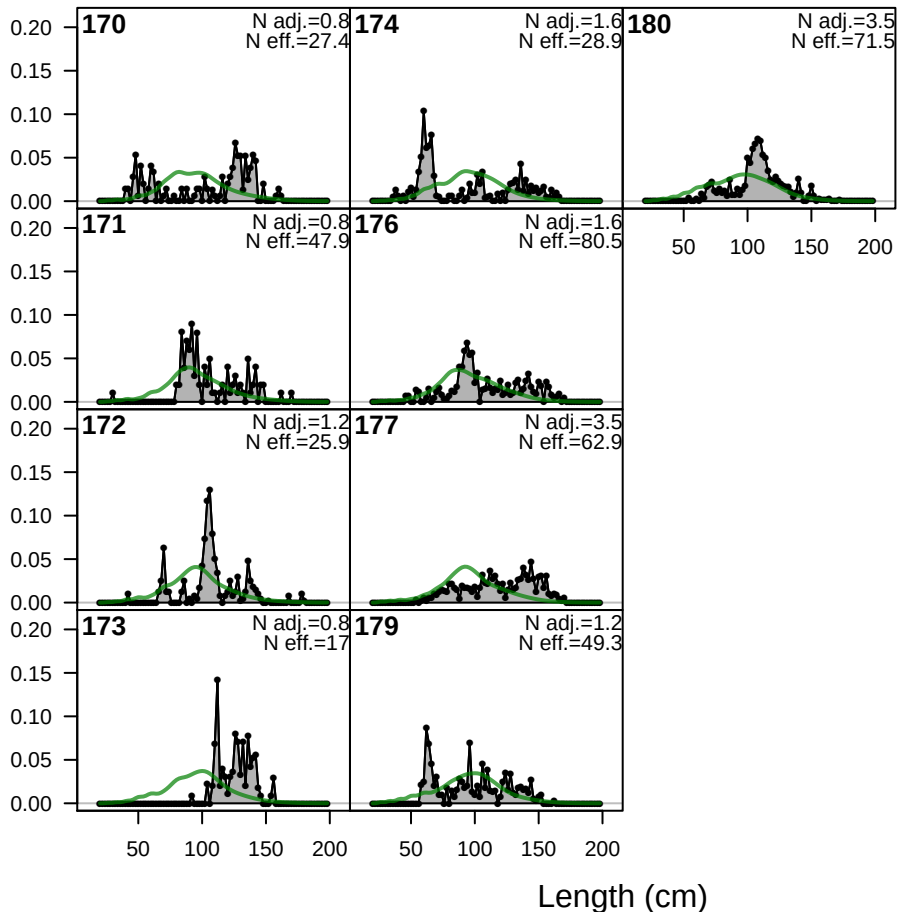


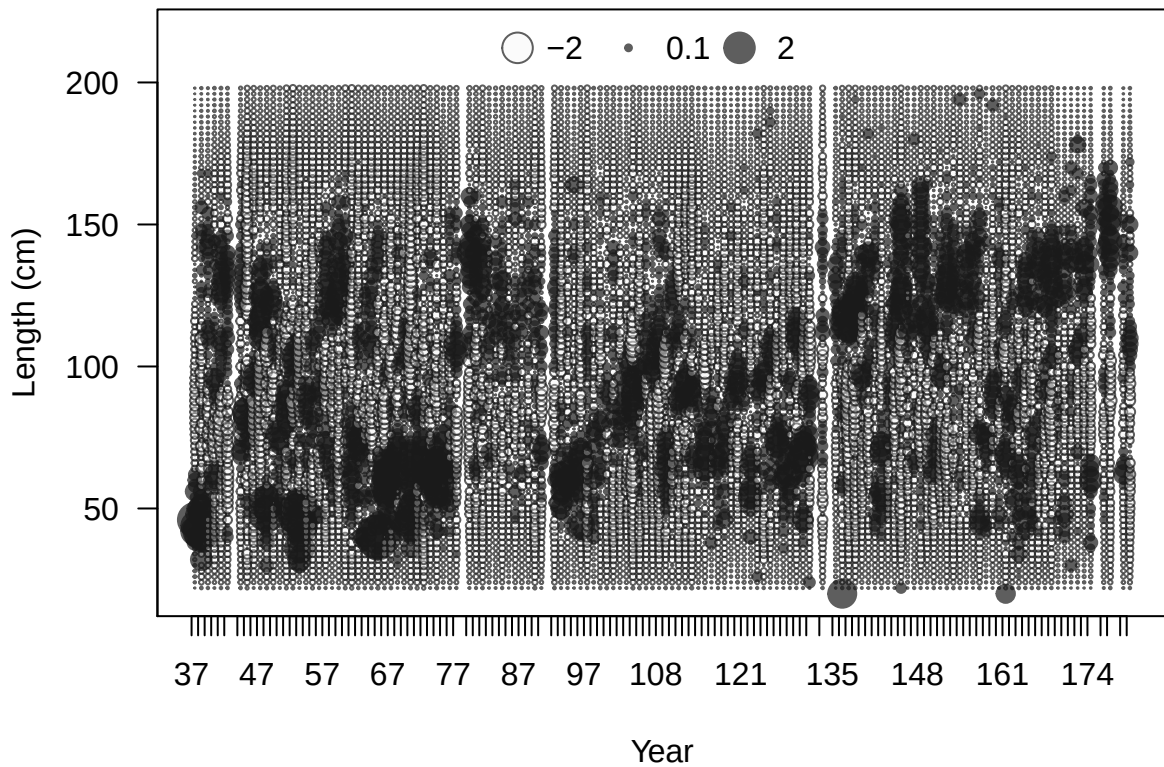






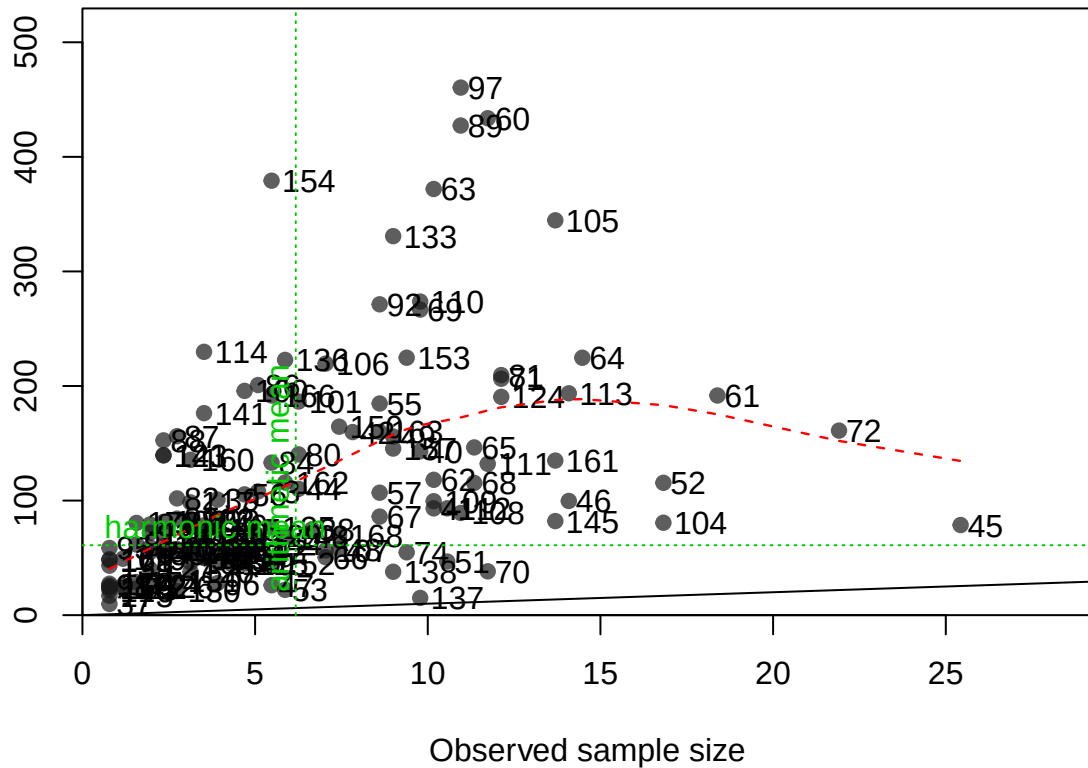
Proportion



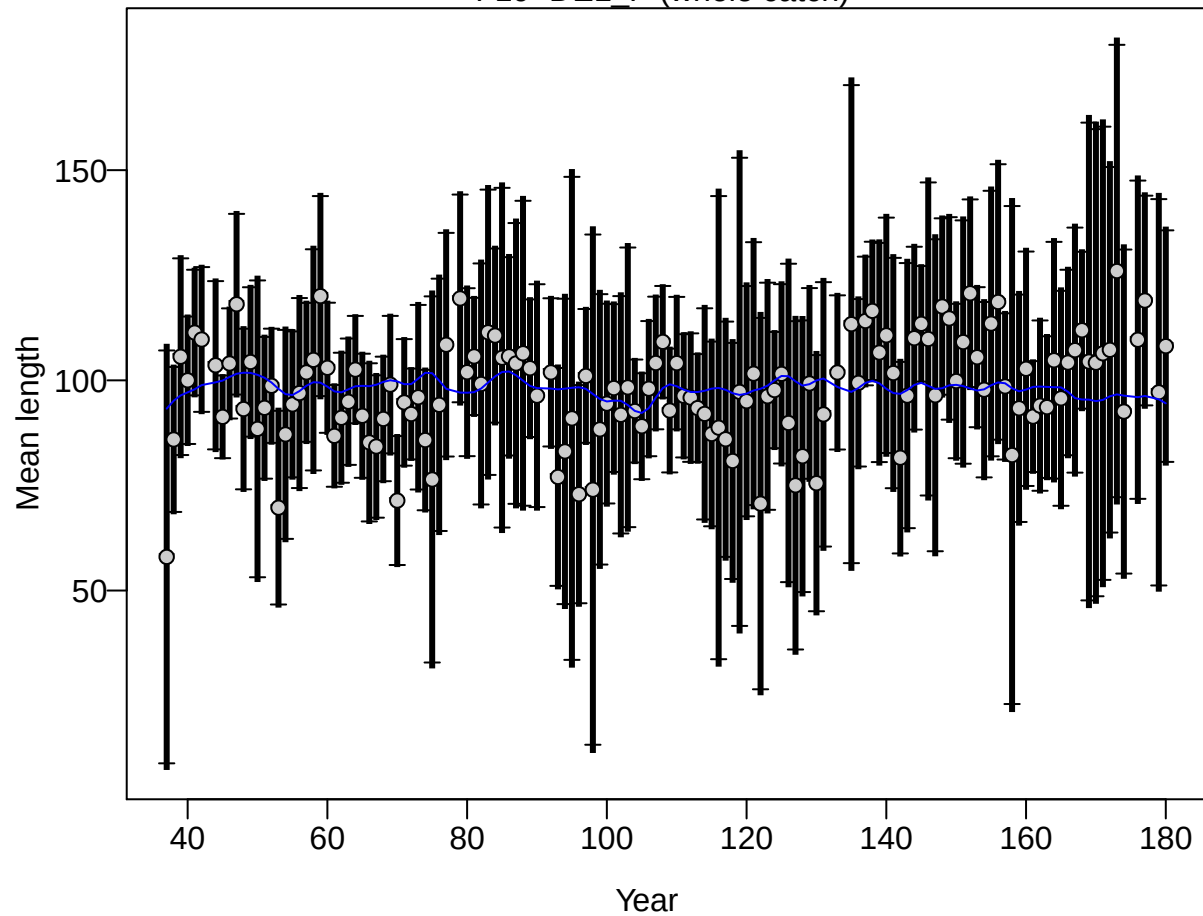


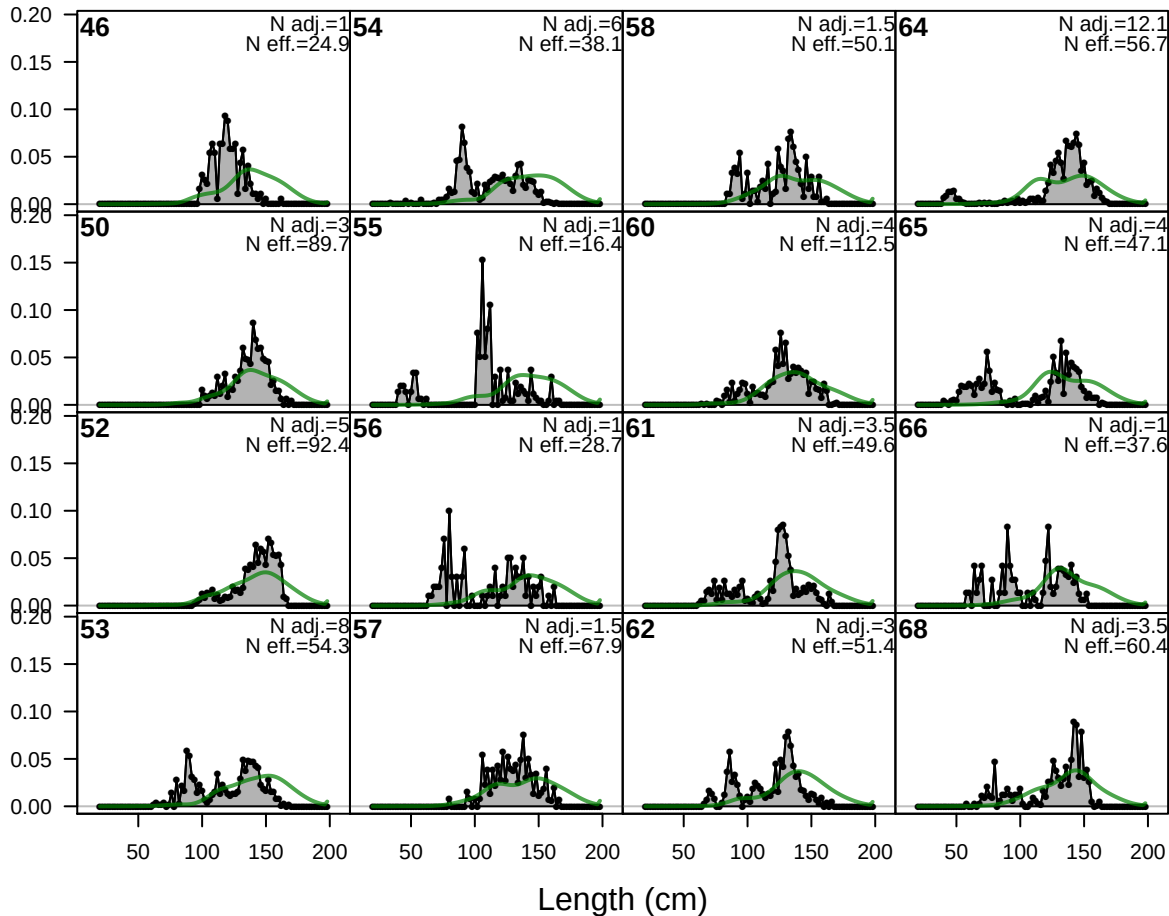


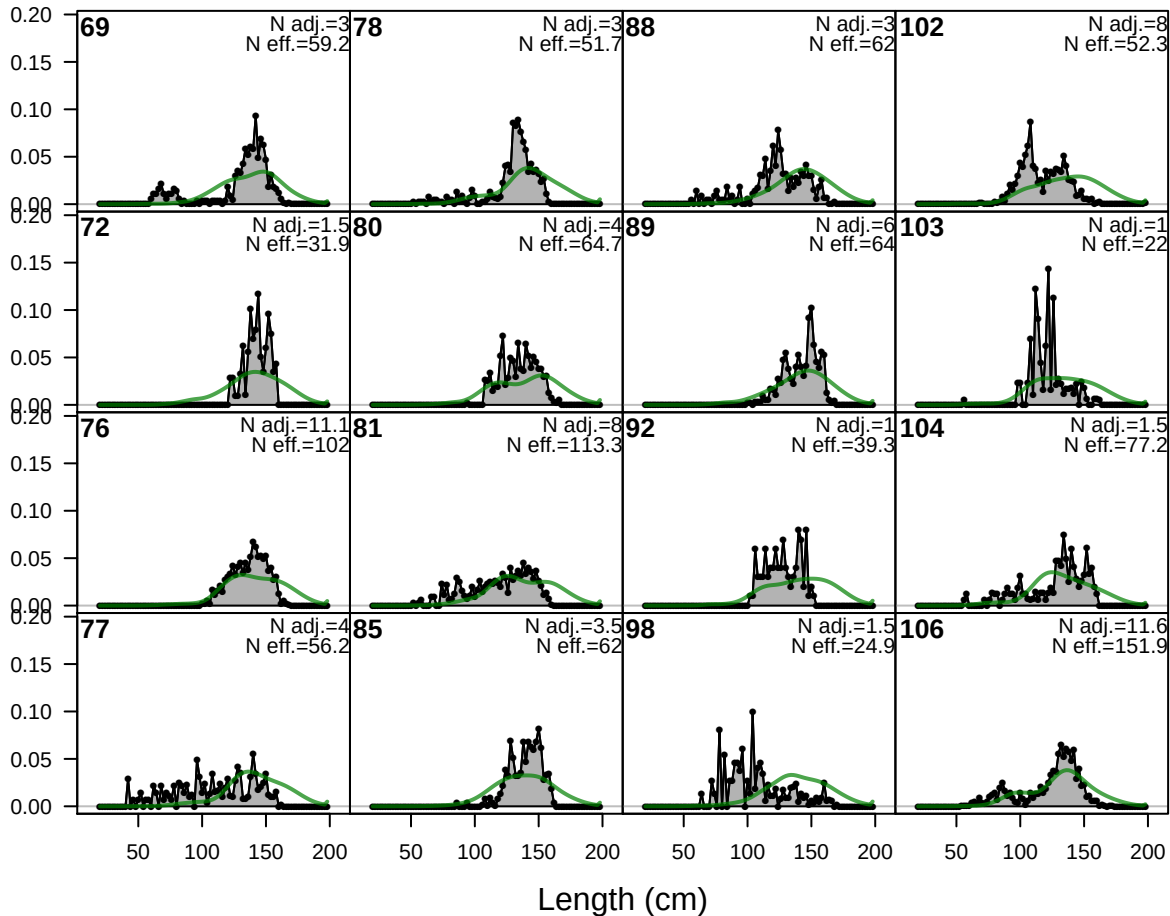
Effective sample size

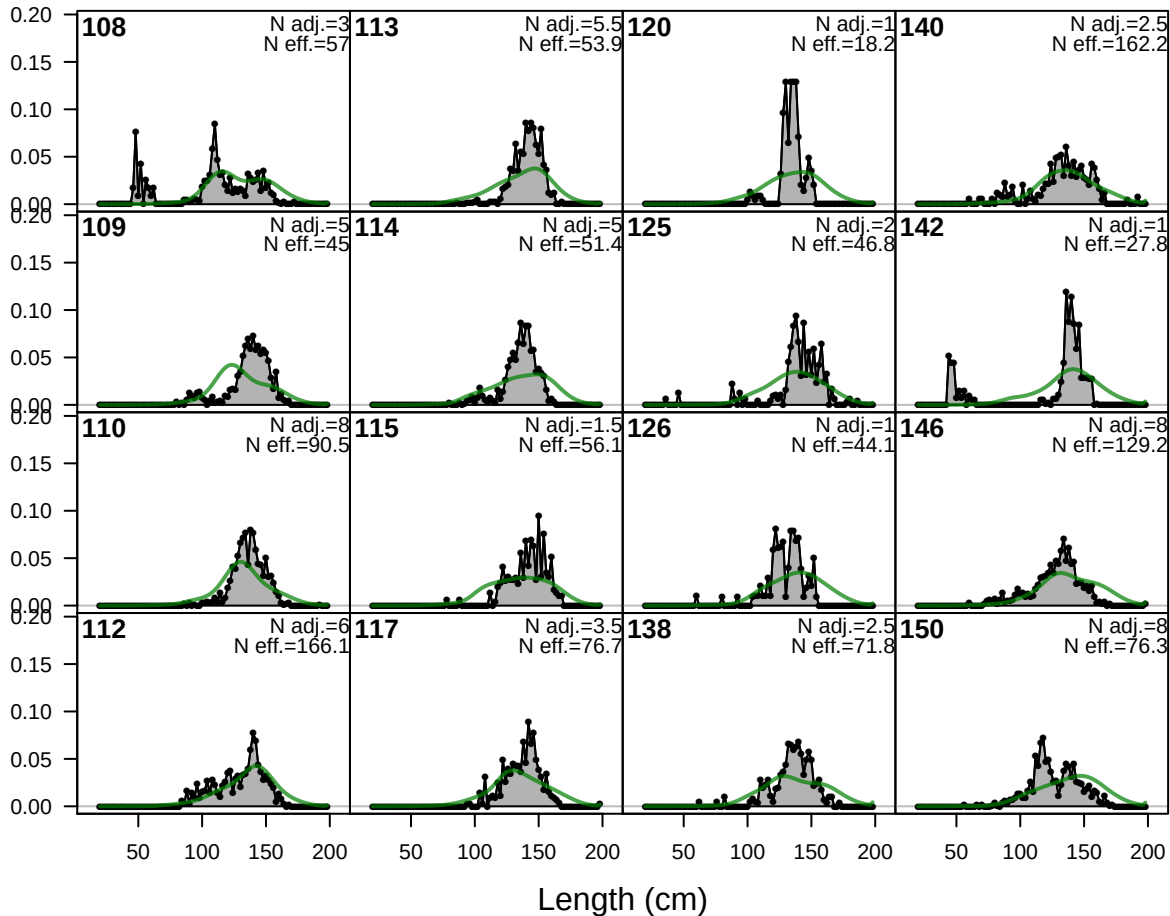


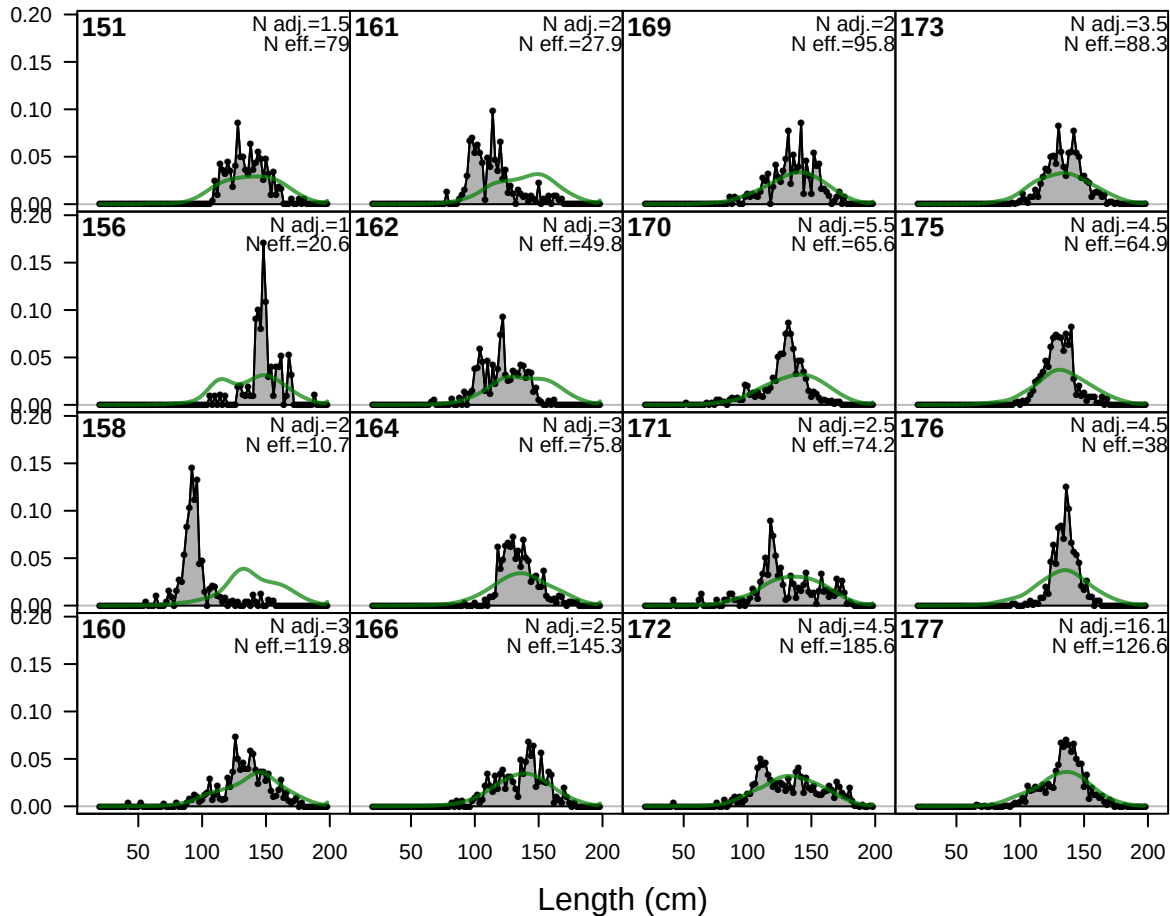
F19-DEL P (whole catch)



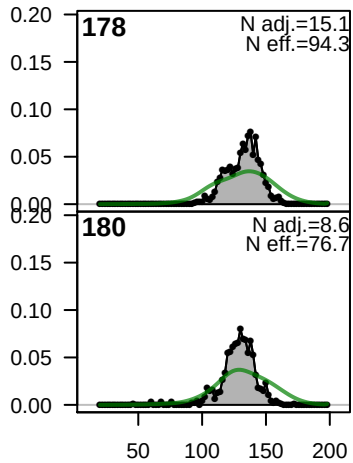




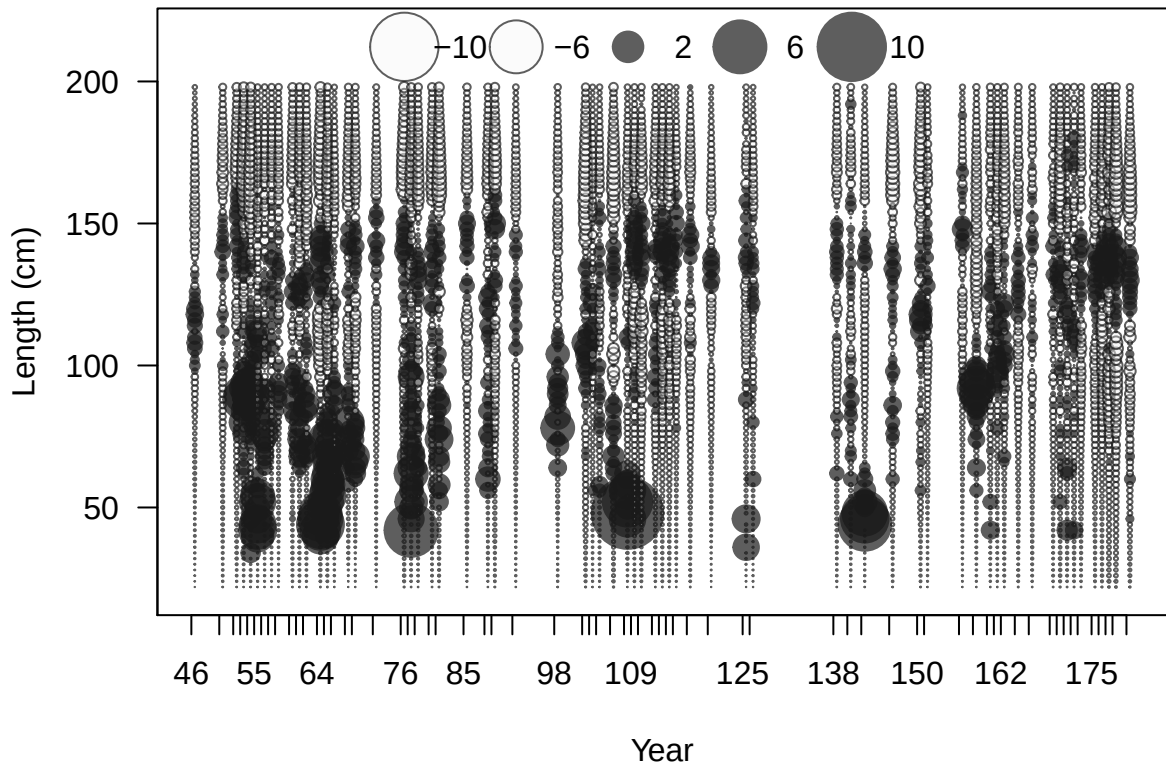




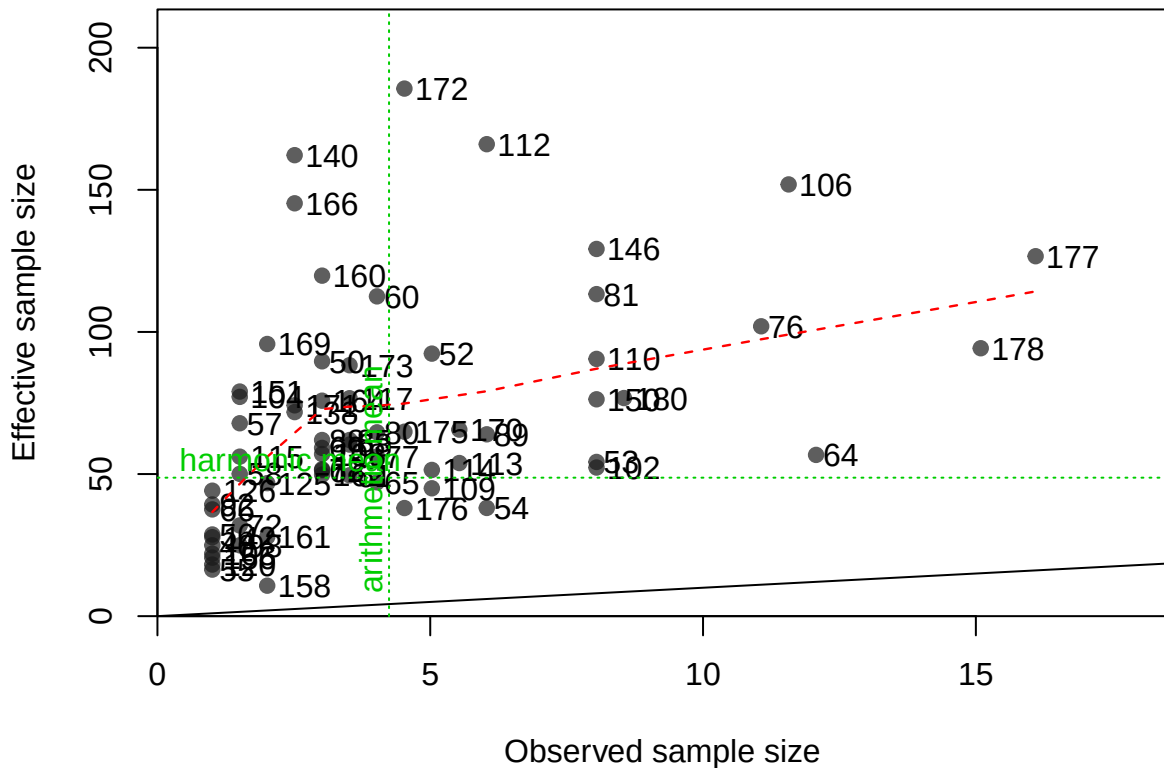
Proportion



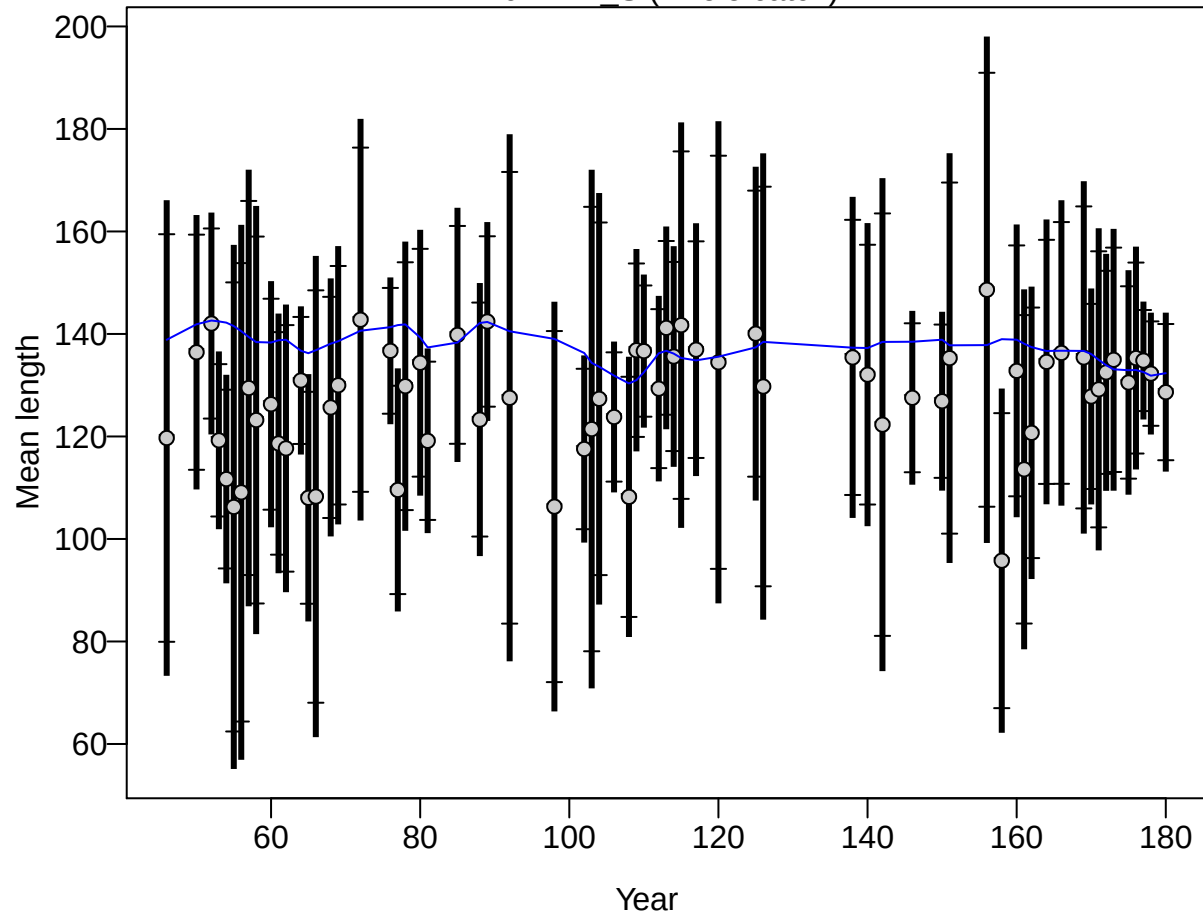
Length (cm)

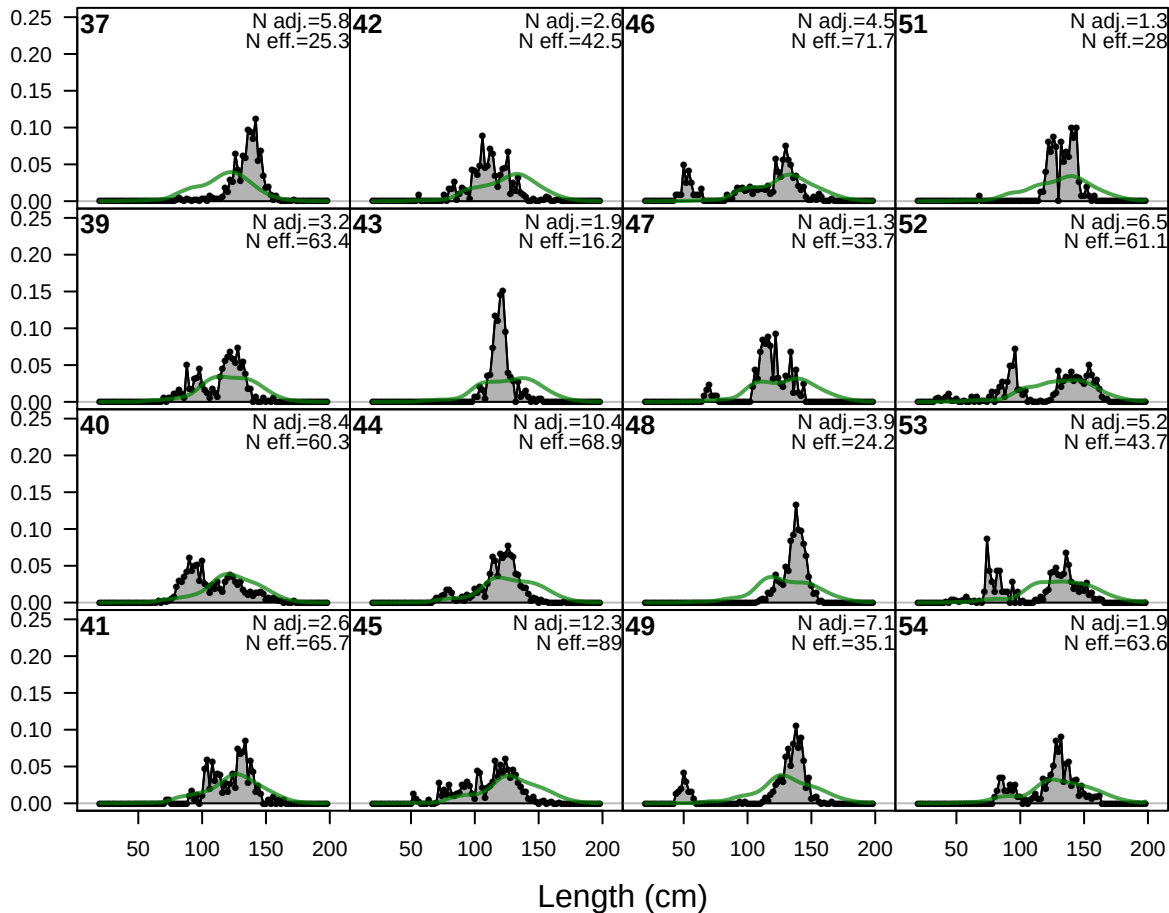


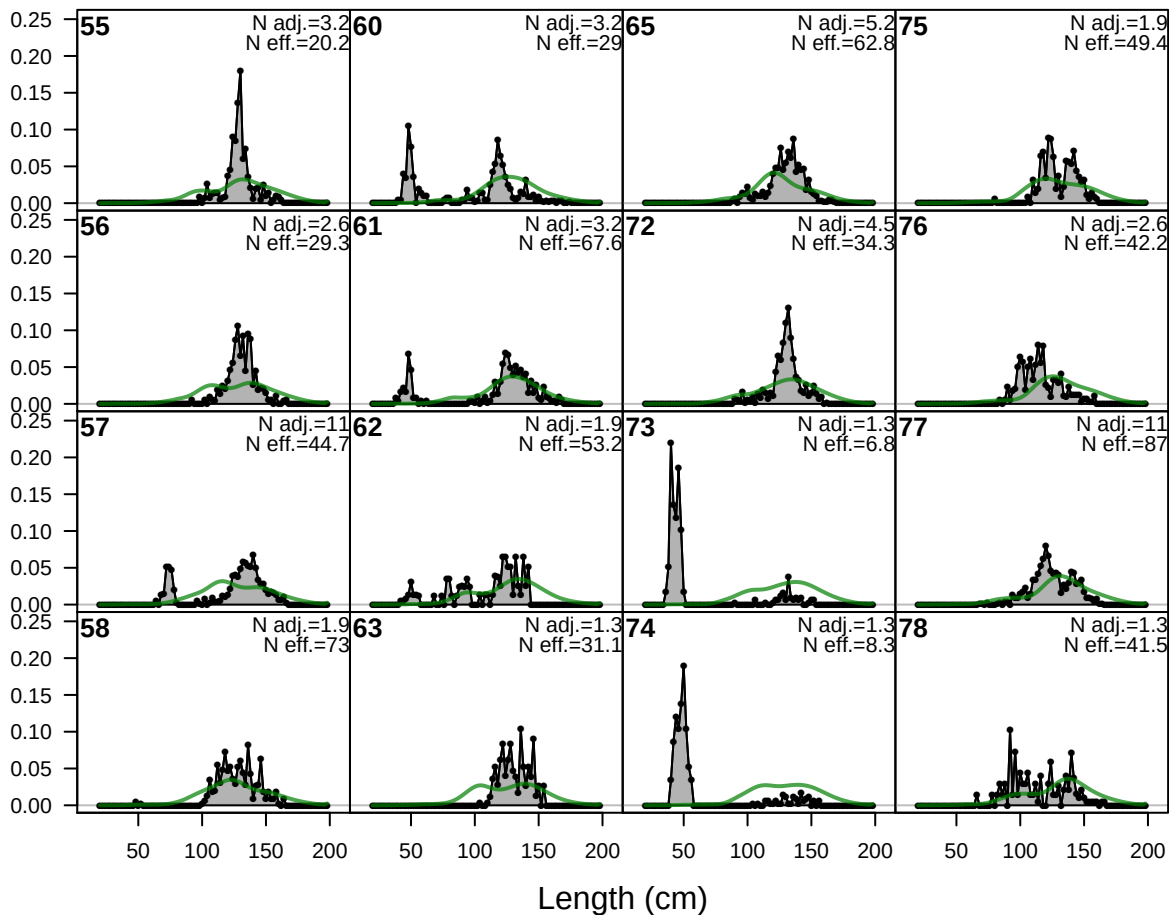


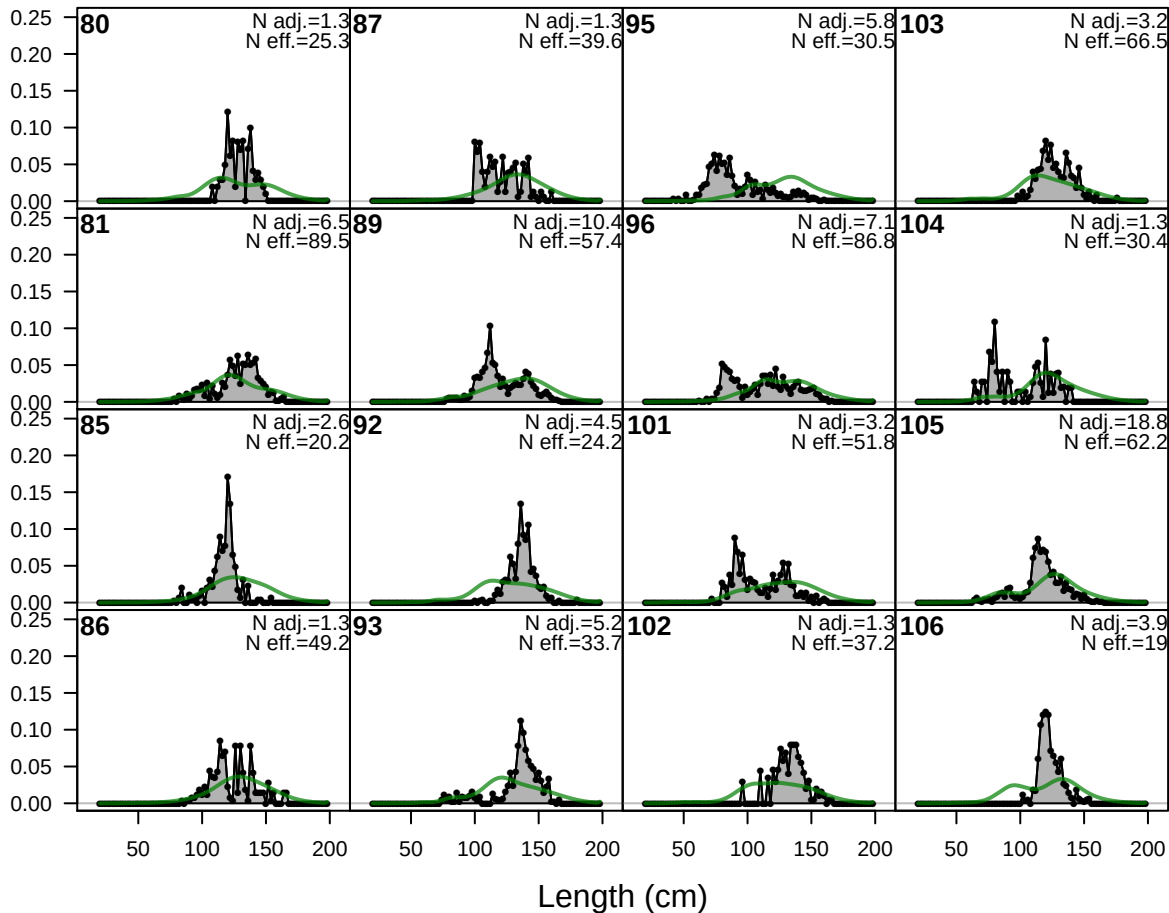


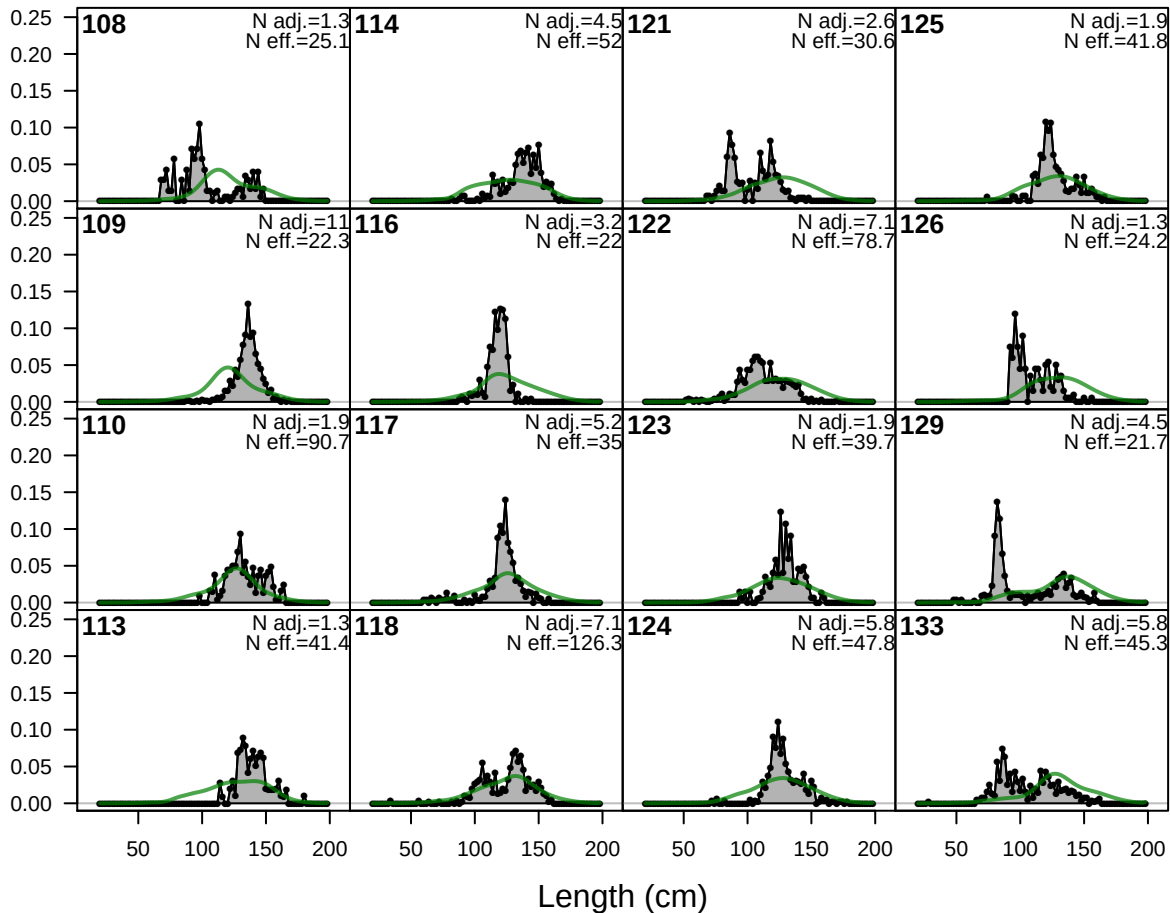
F20-DEL\_S (whole catch)

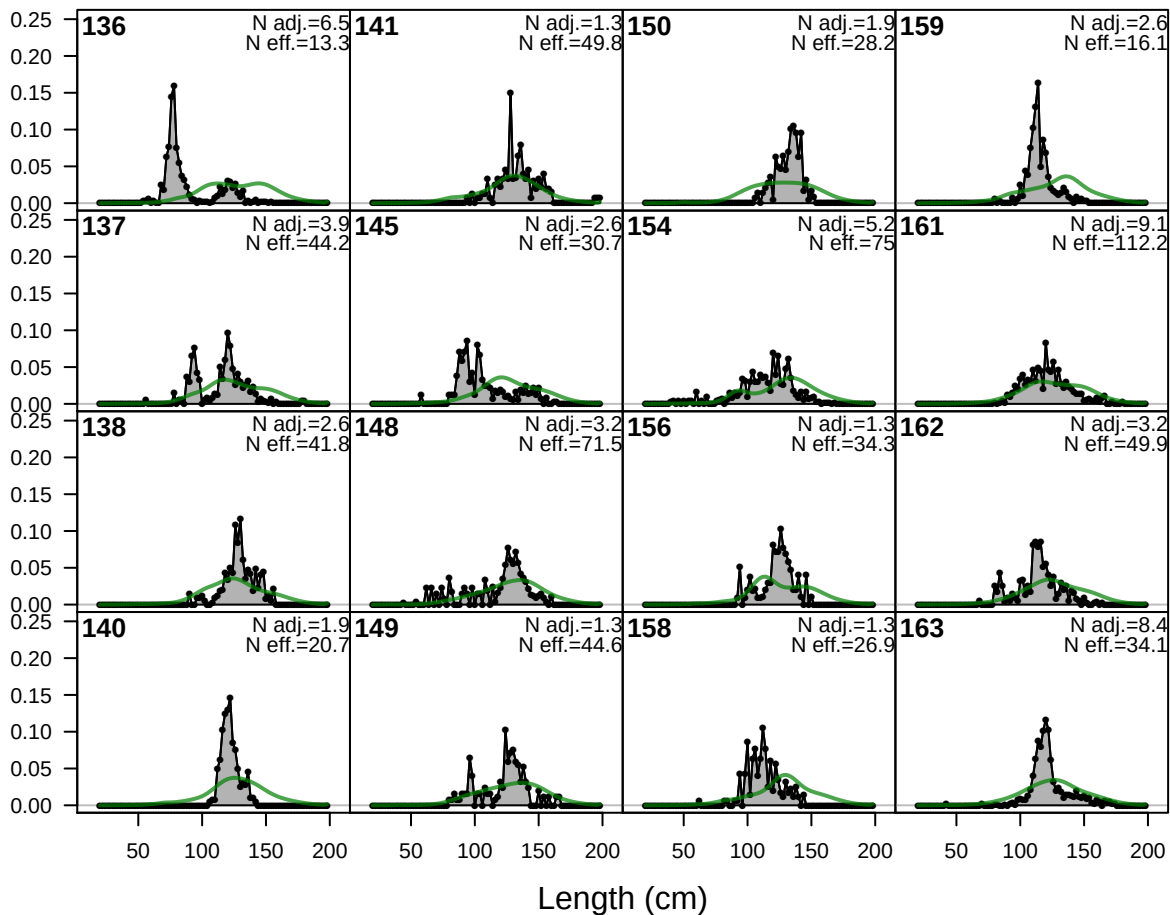


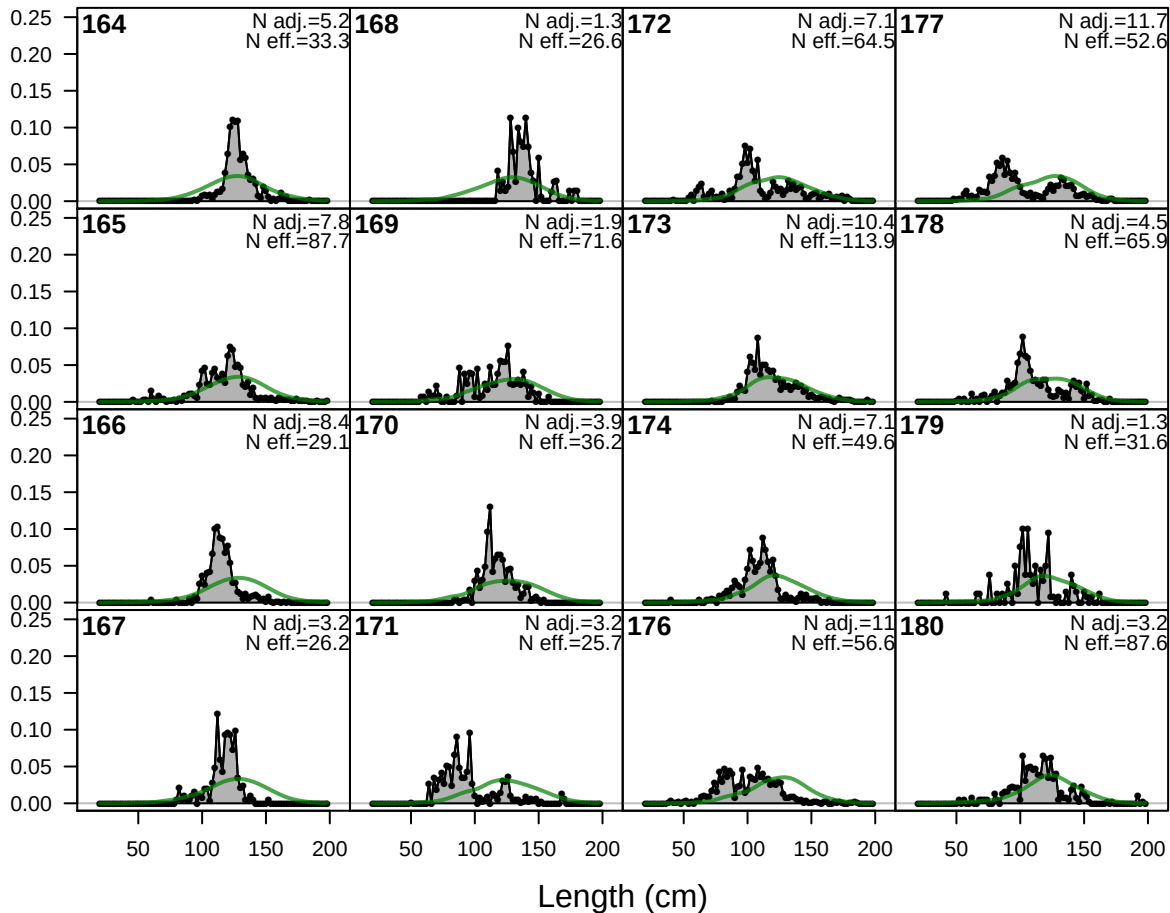




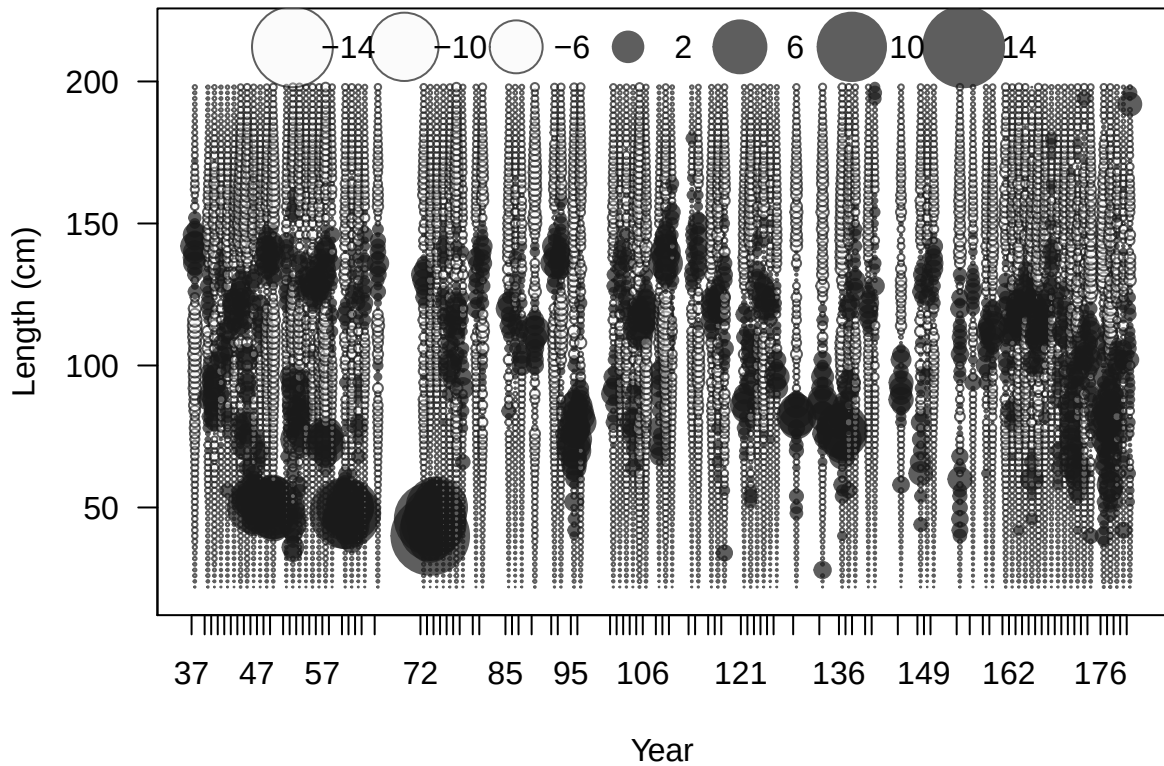




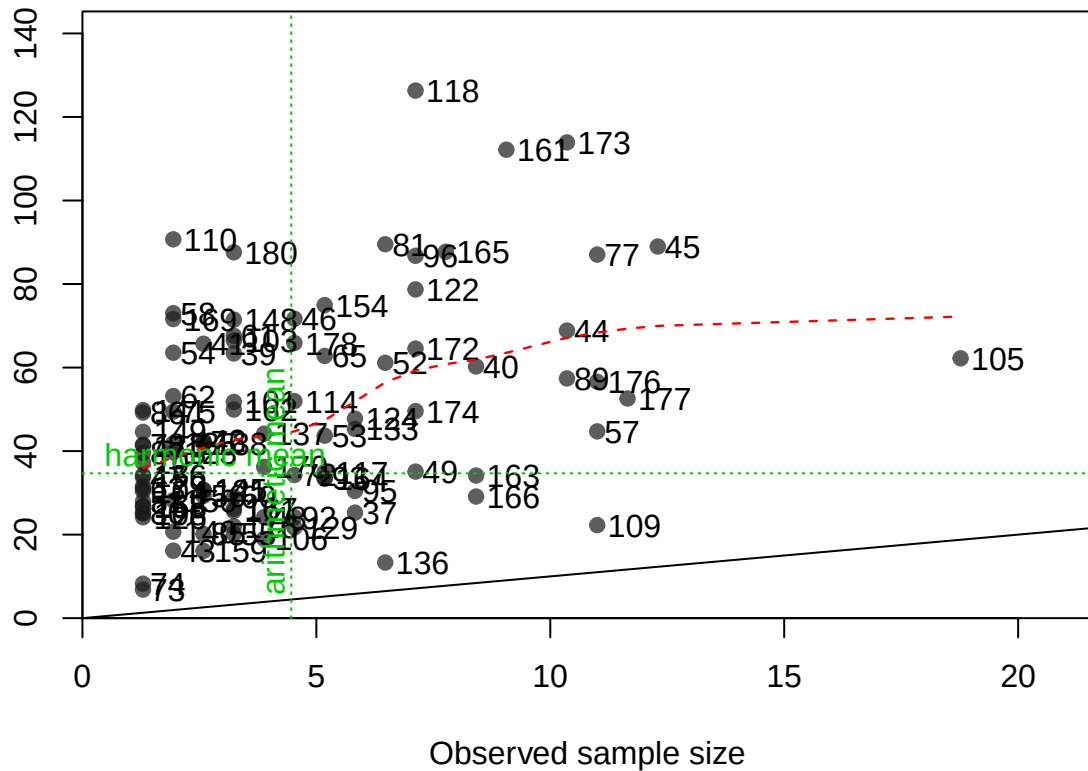




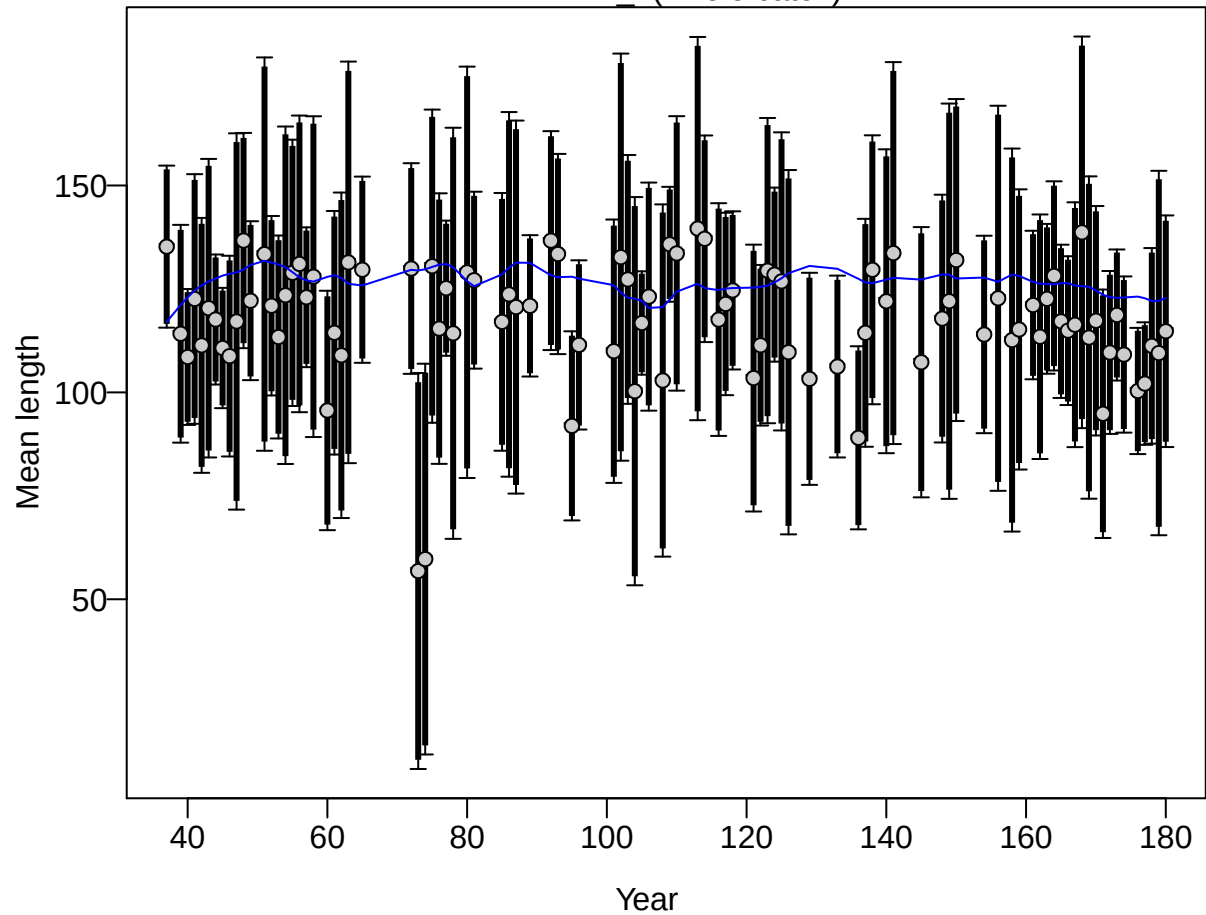


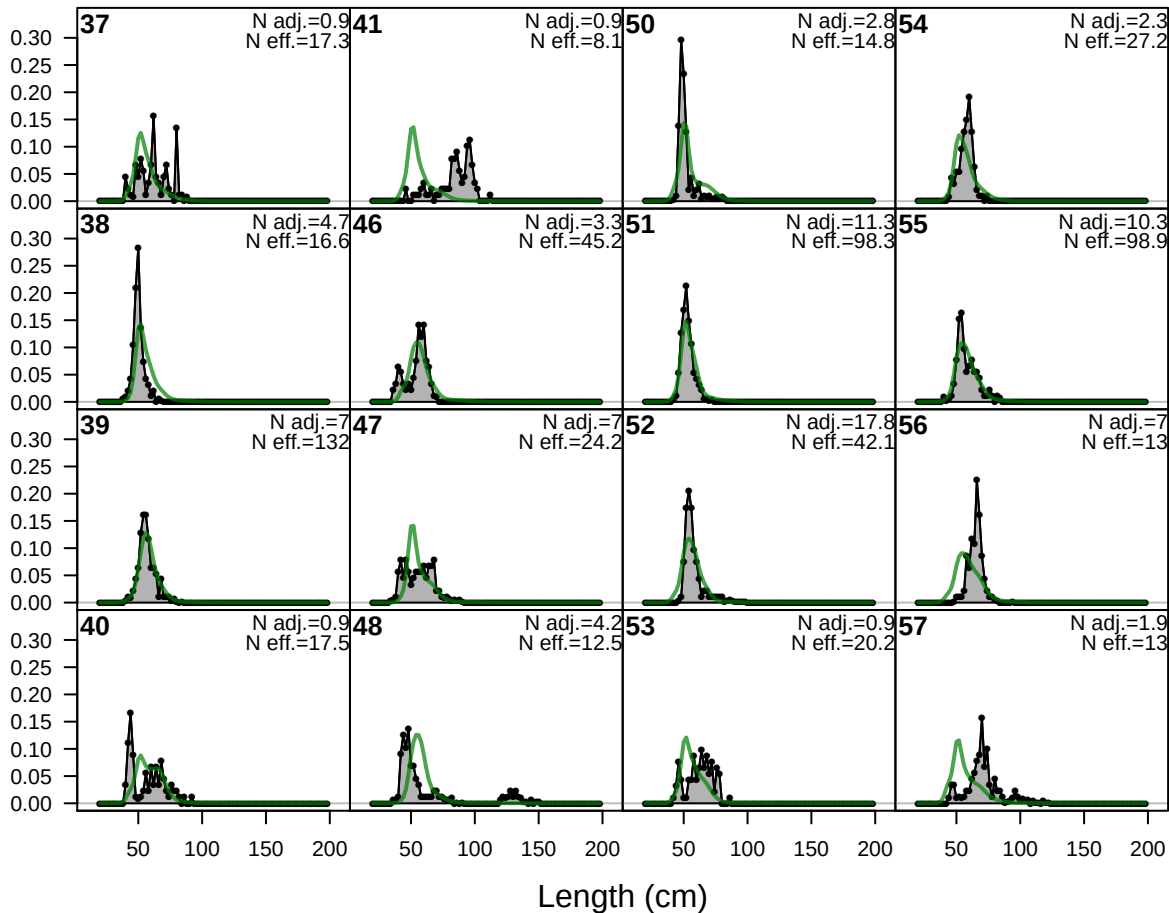


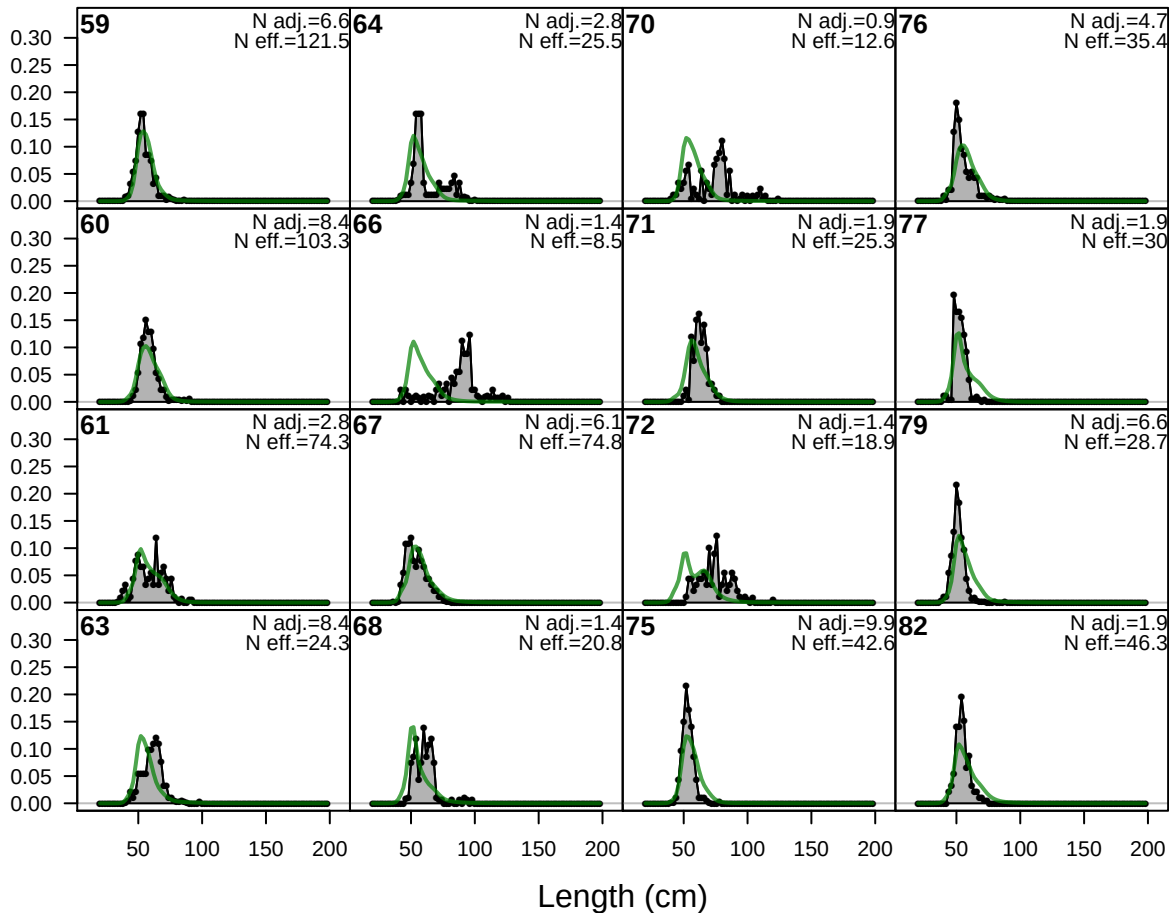
Effective sample size

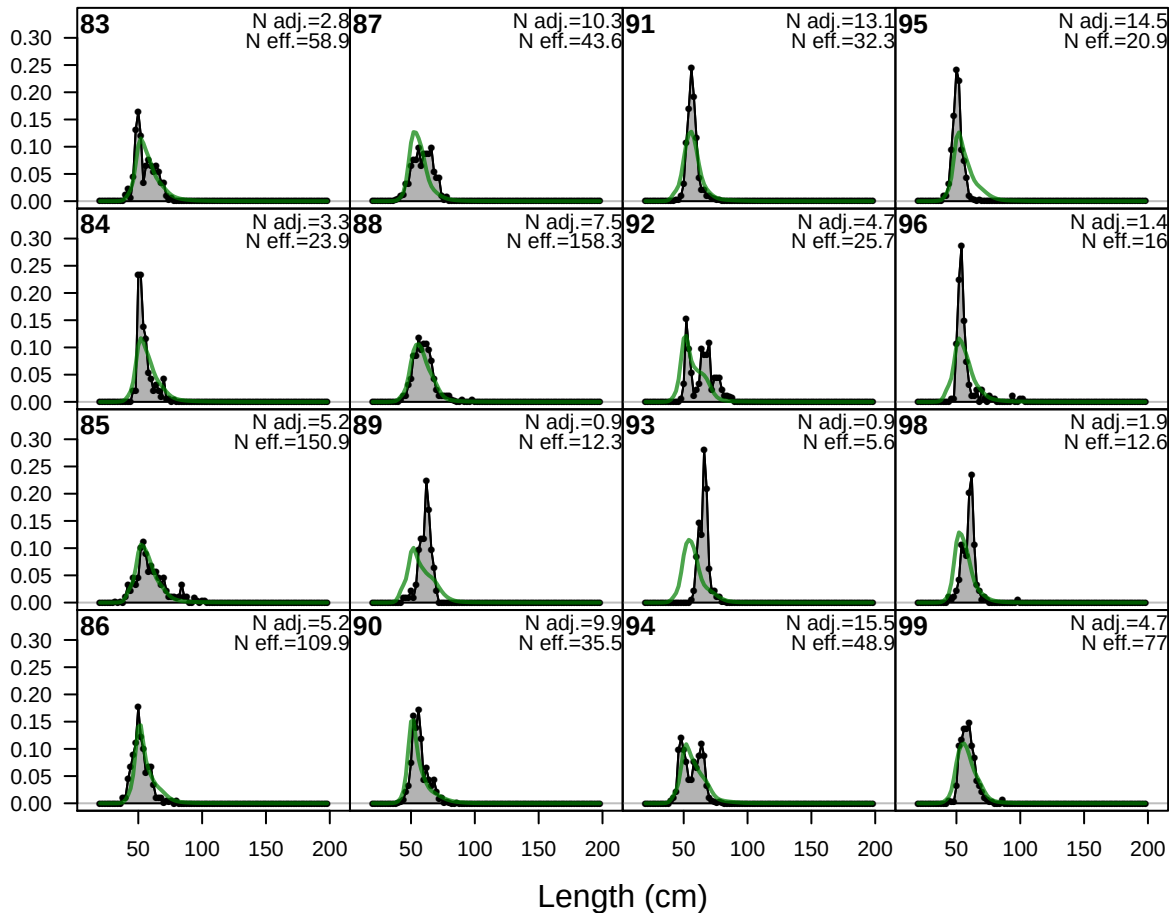


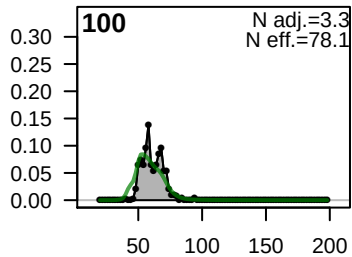
F21-DEL\_I (whole catch)





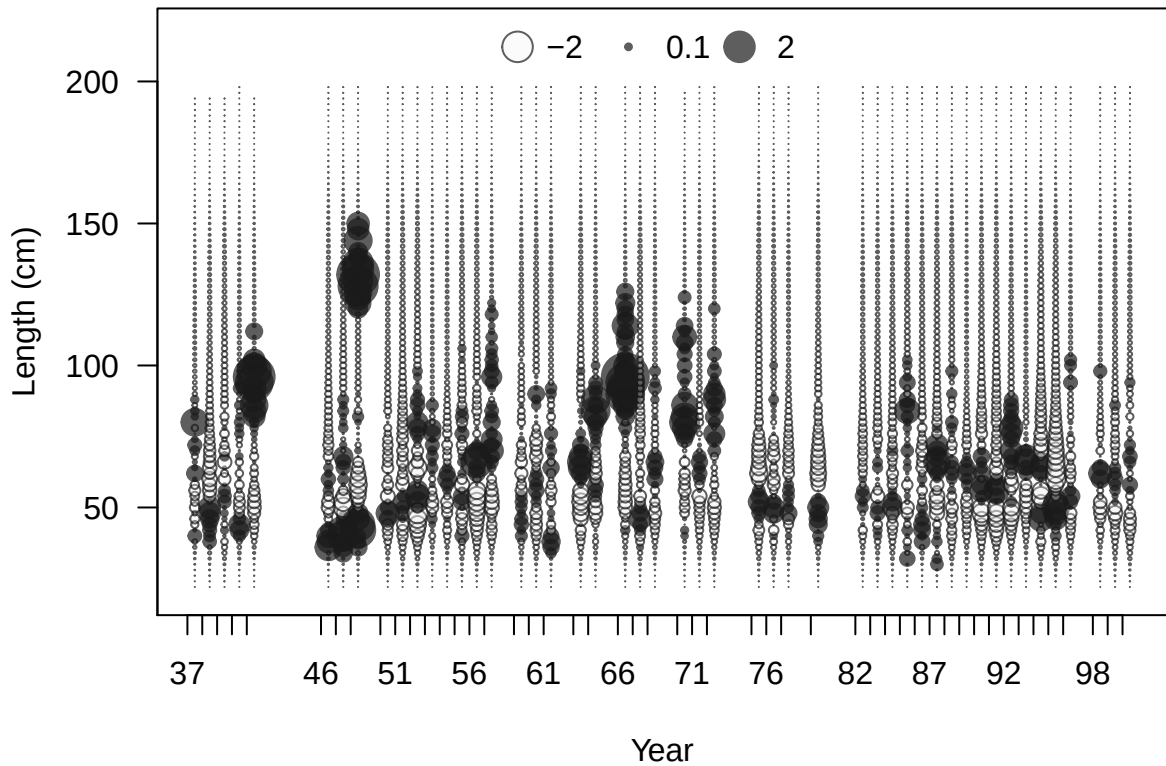






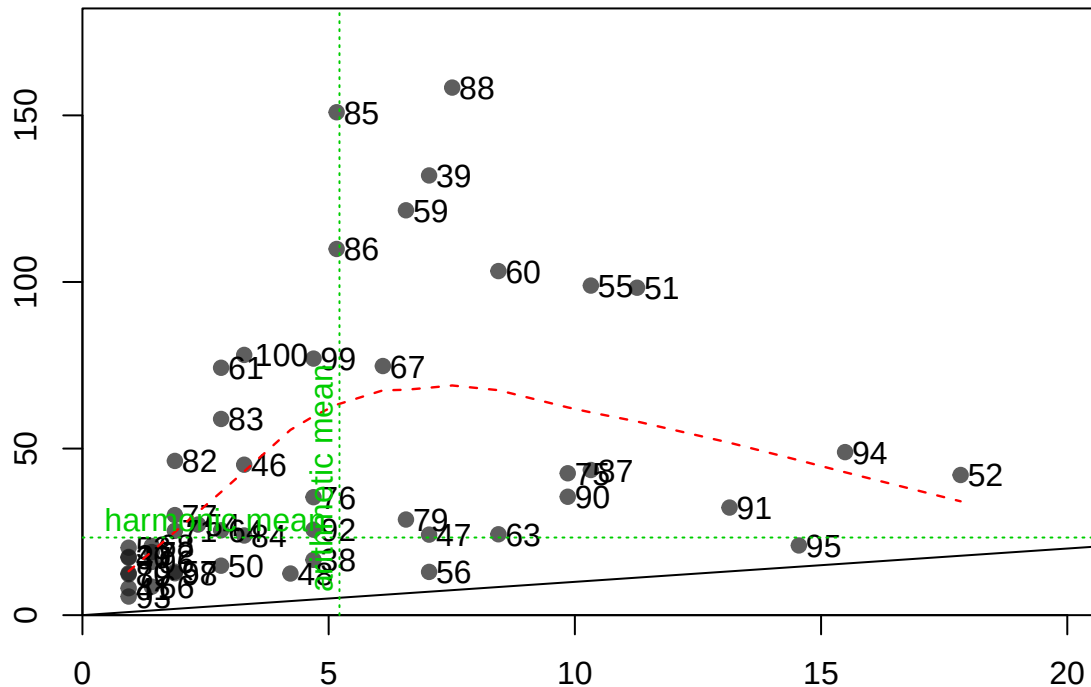
Proportion

Length (cm)



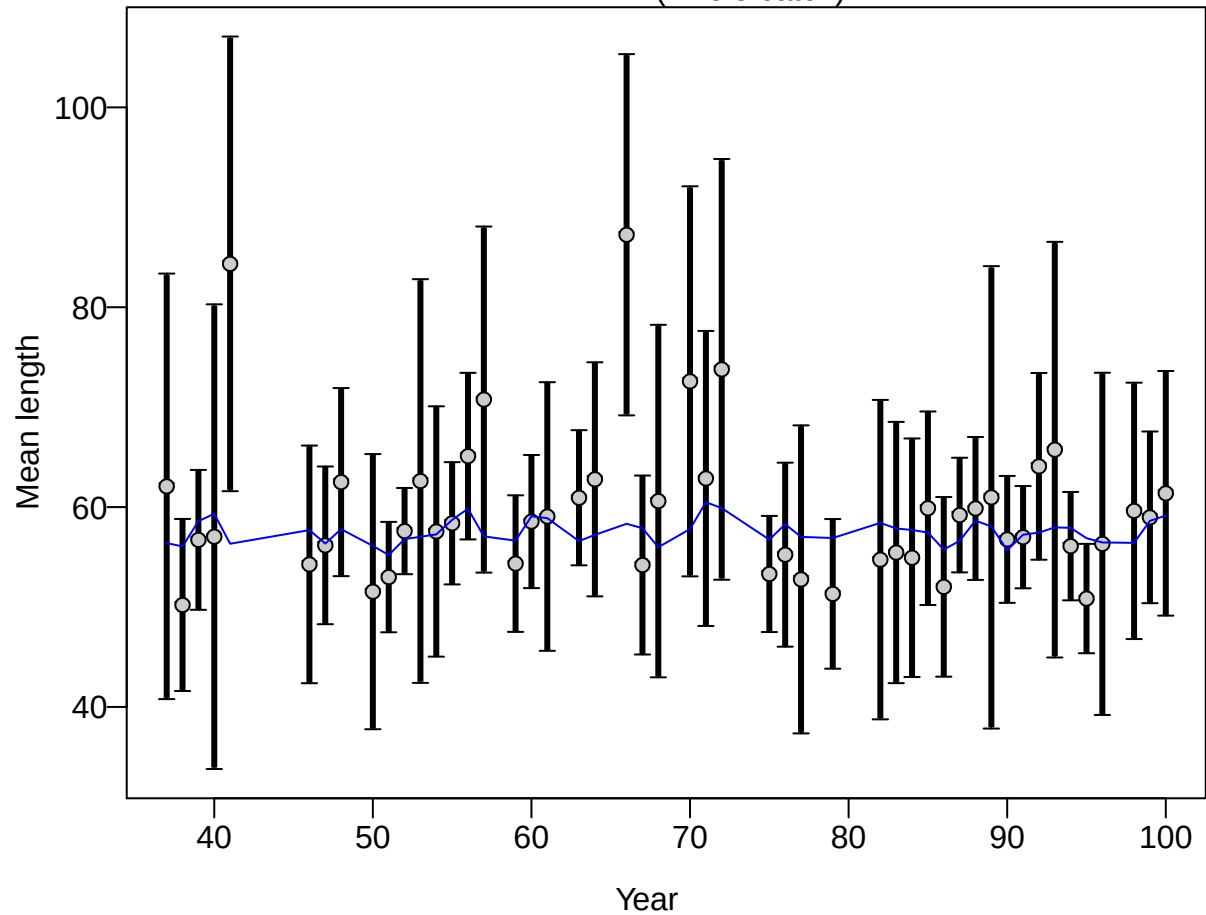


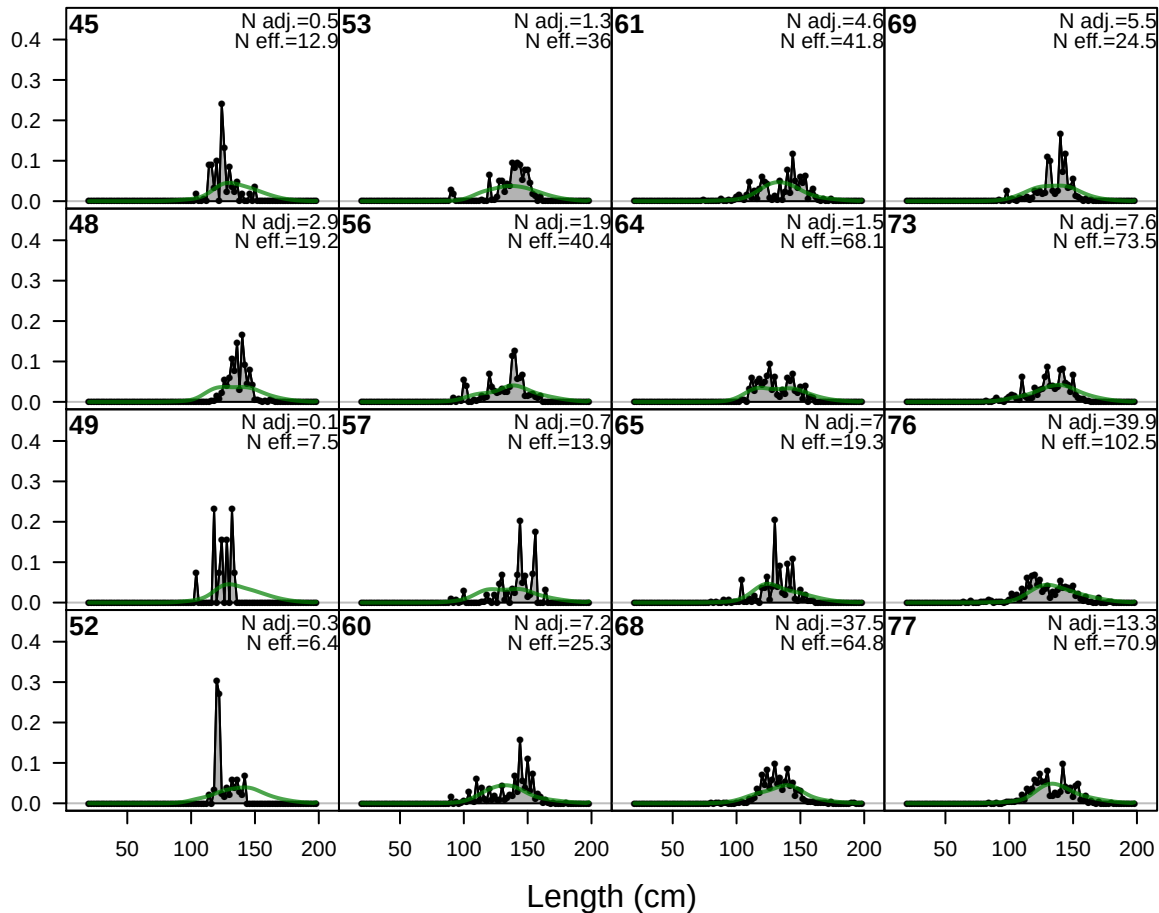
Effective sample size

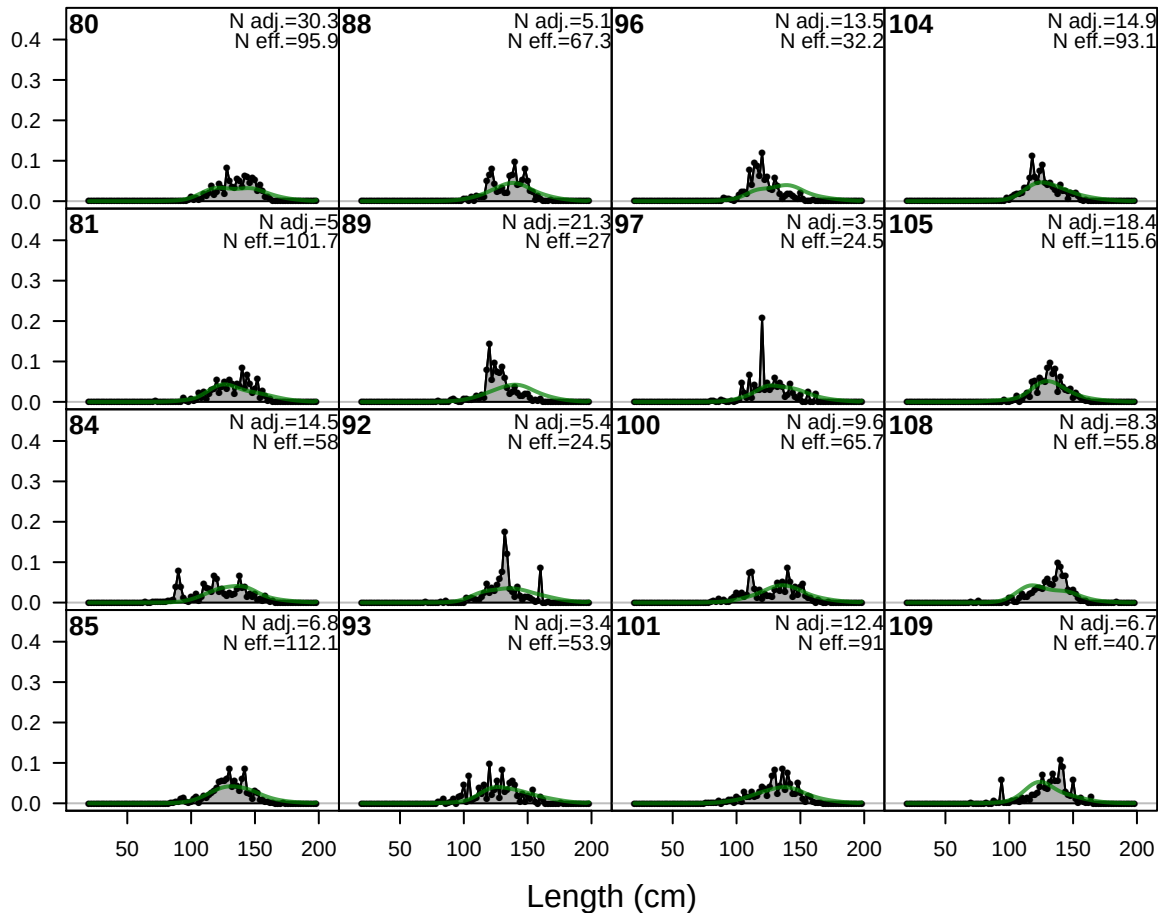


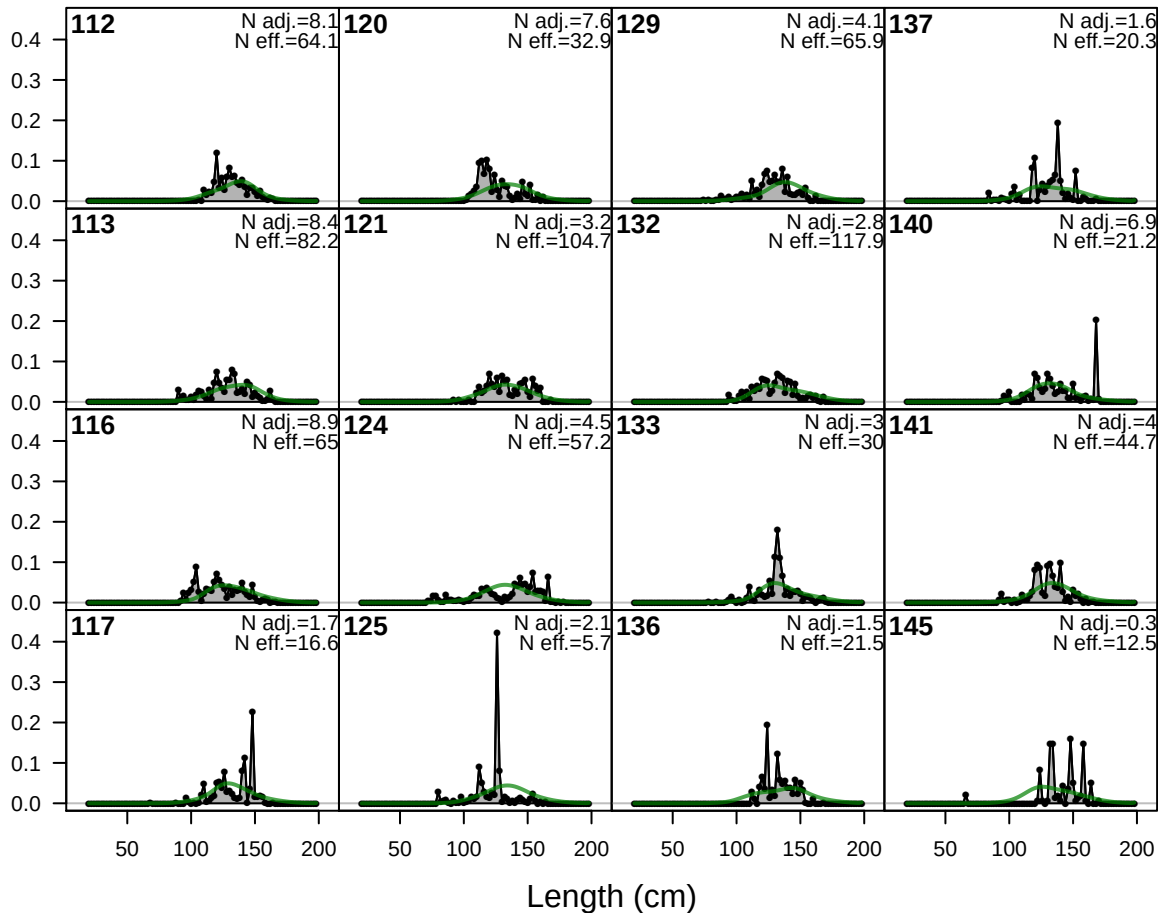
Observed sample size

F22-BB (whole catch)

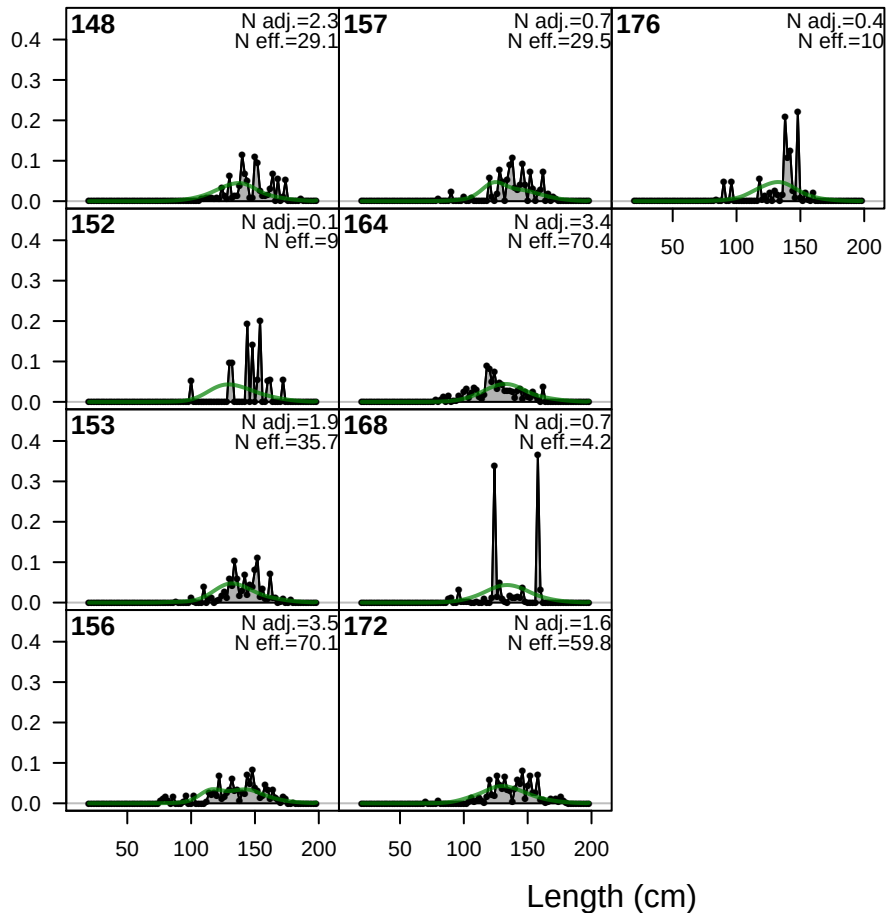


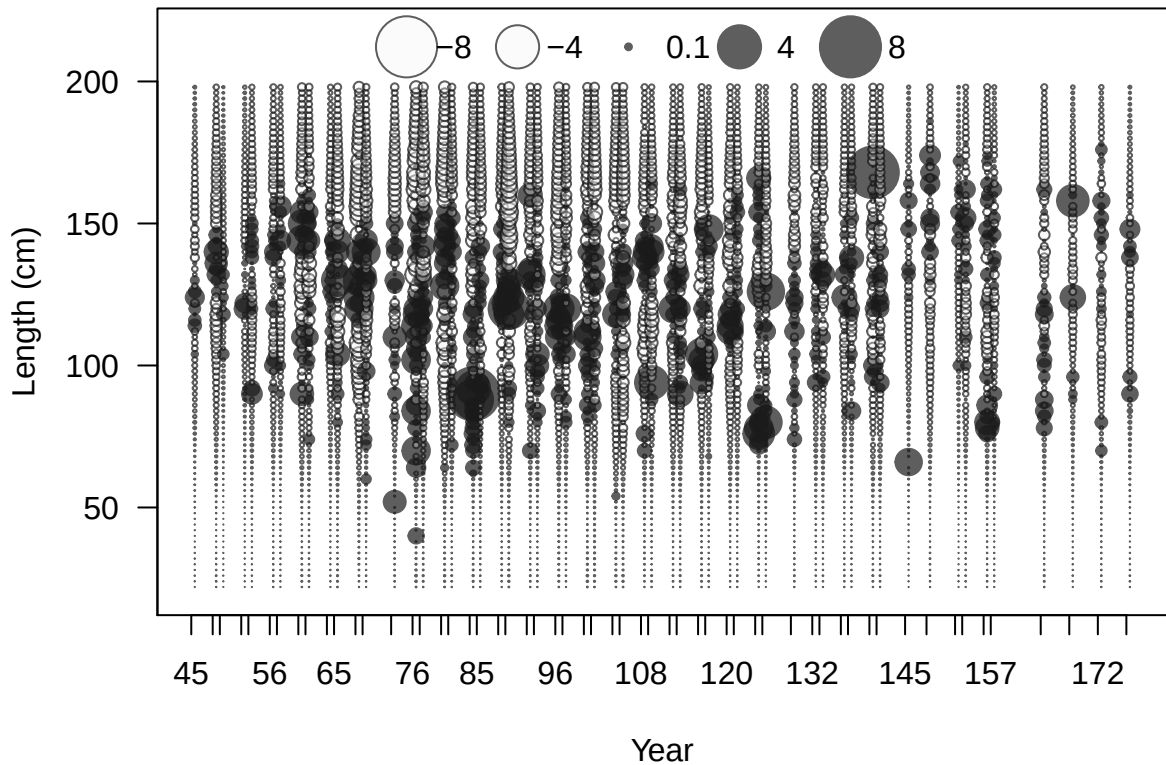




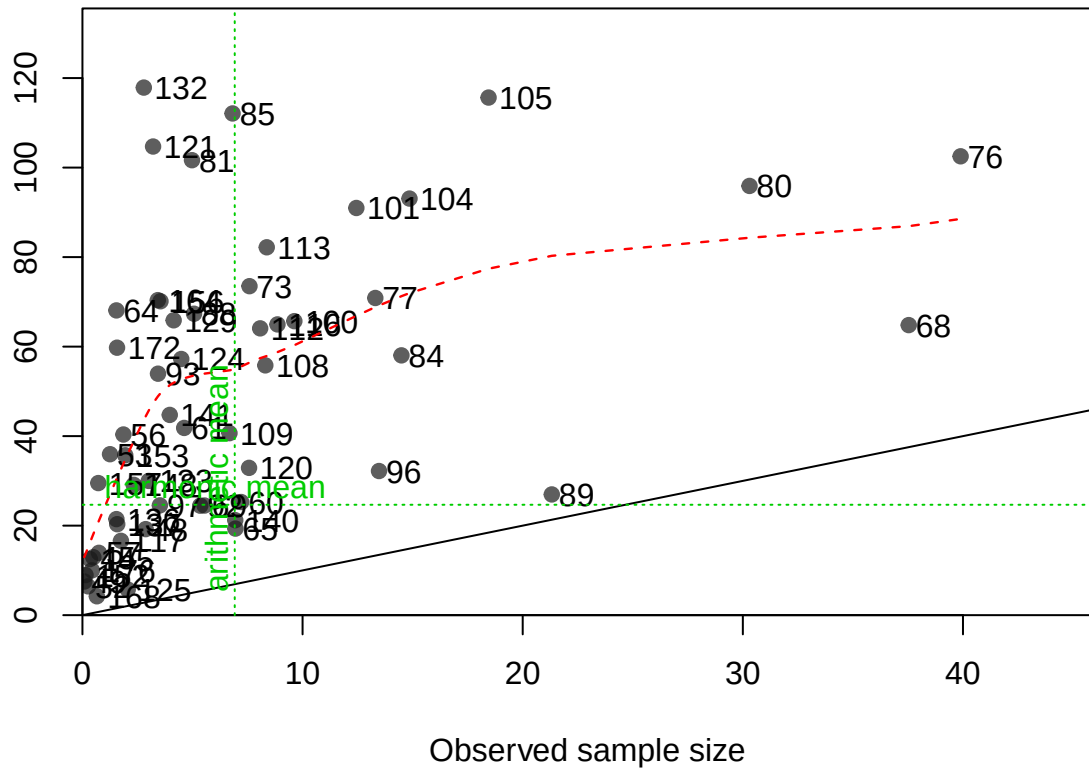


Proportion



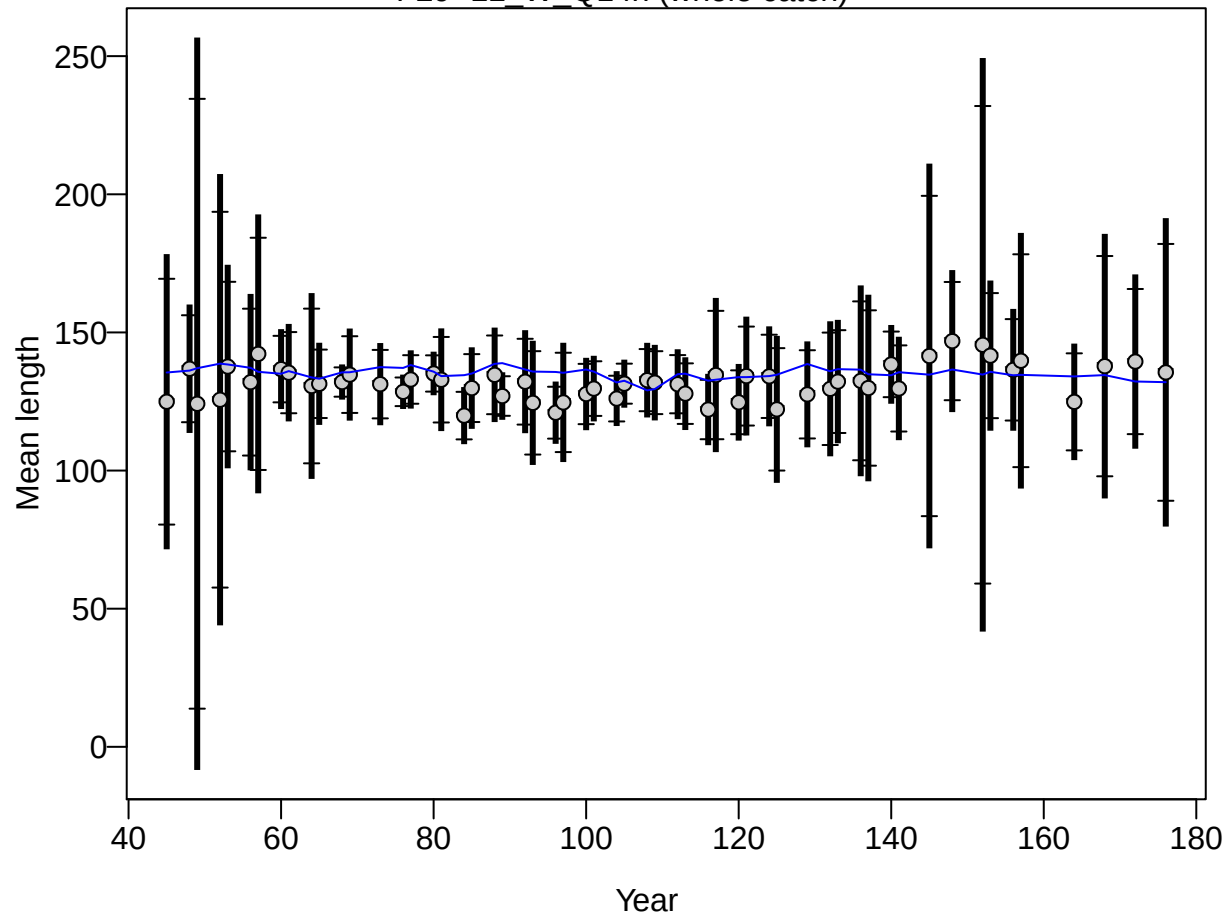


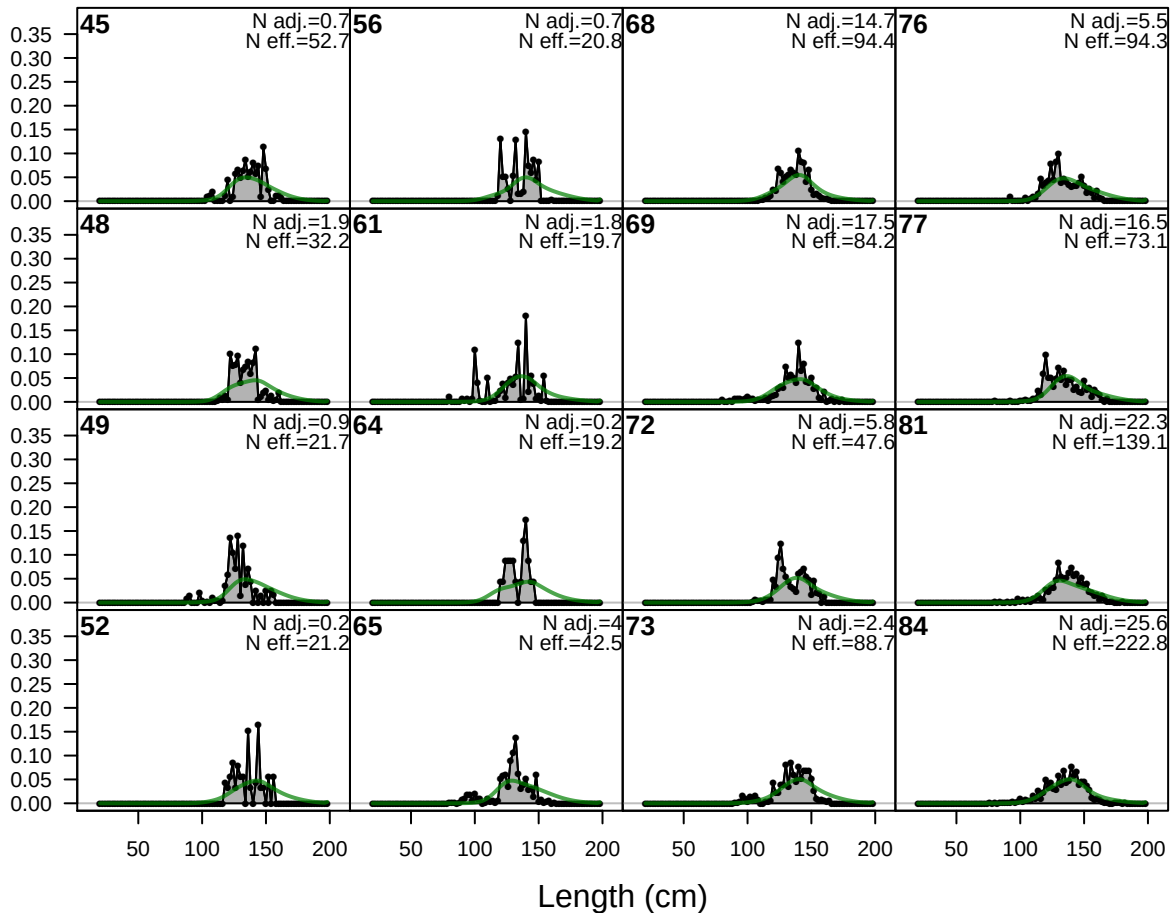
Effective sample size

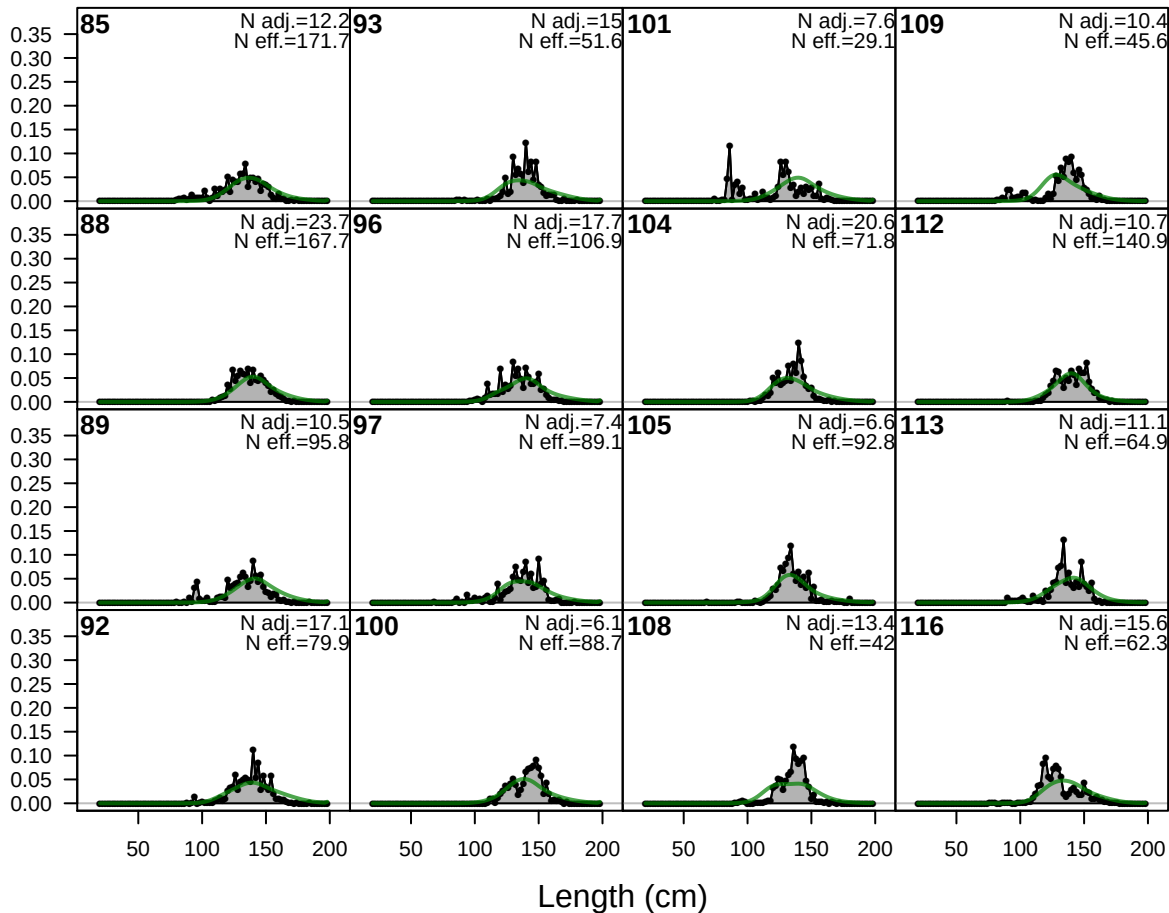


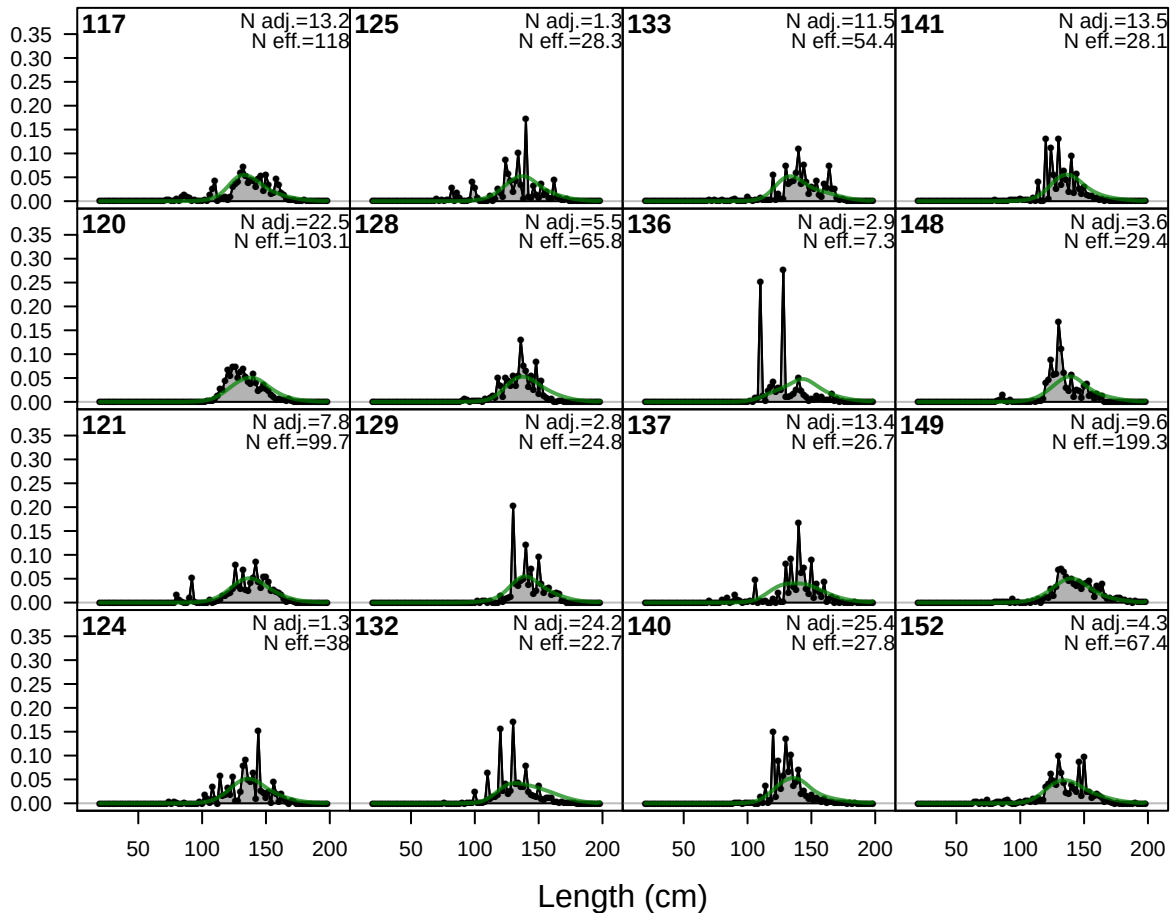


F29-LL W Q14n (whole catch)

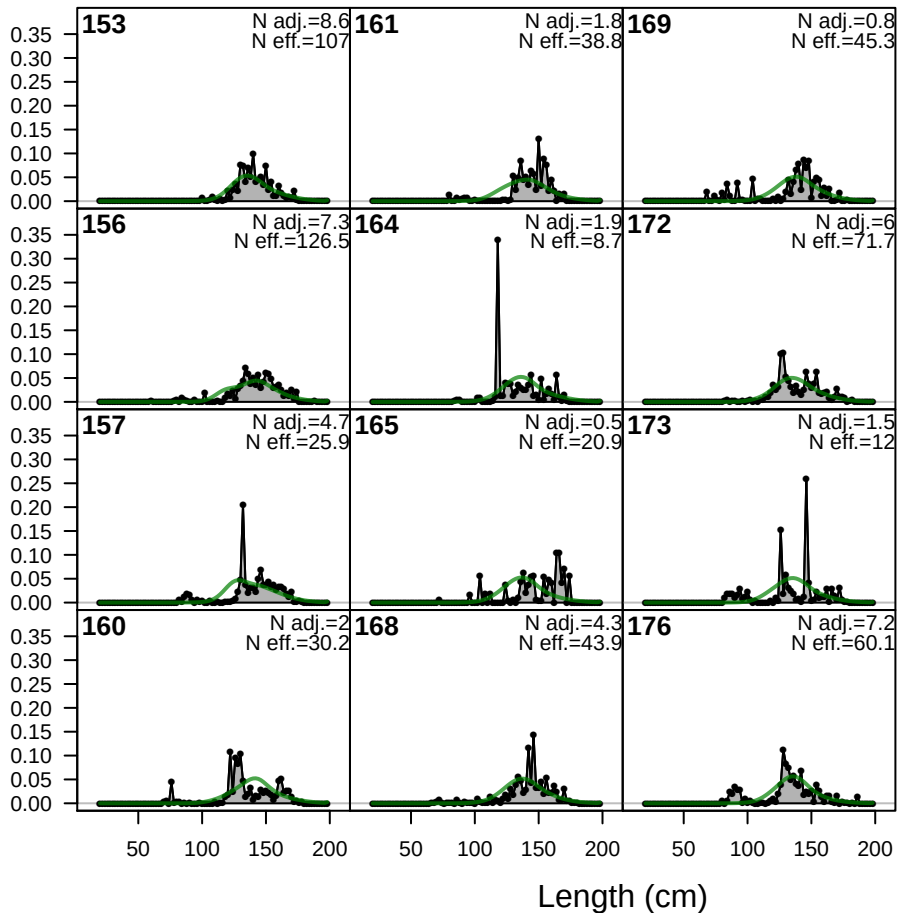


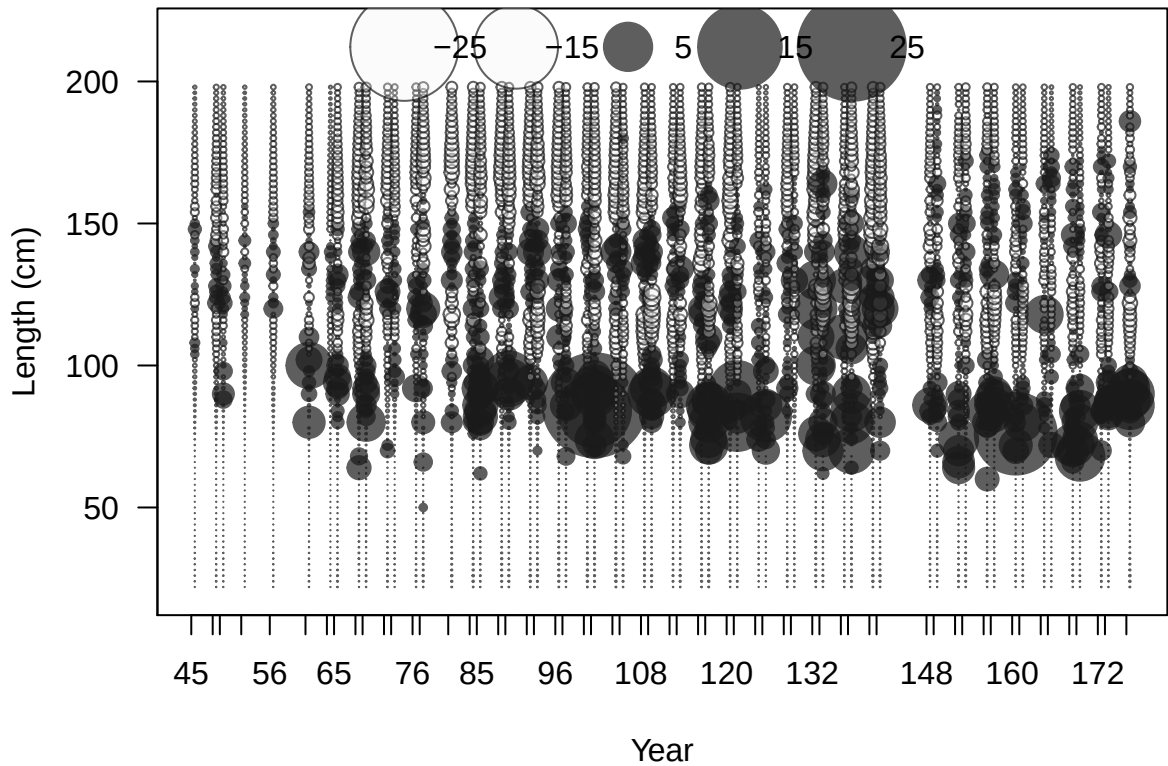


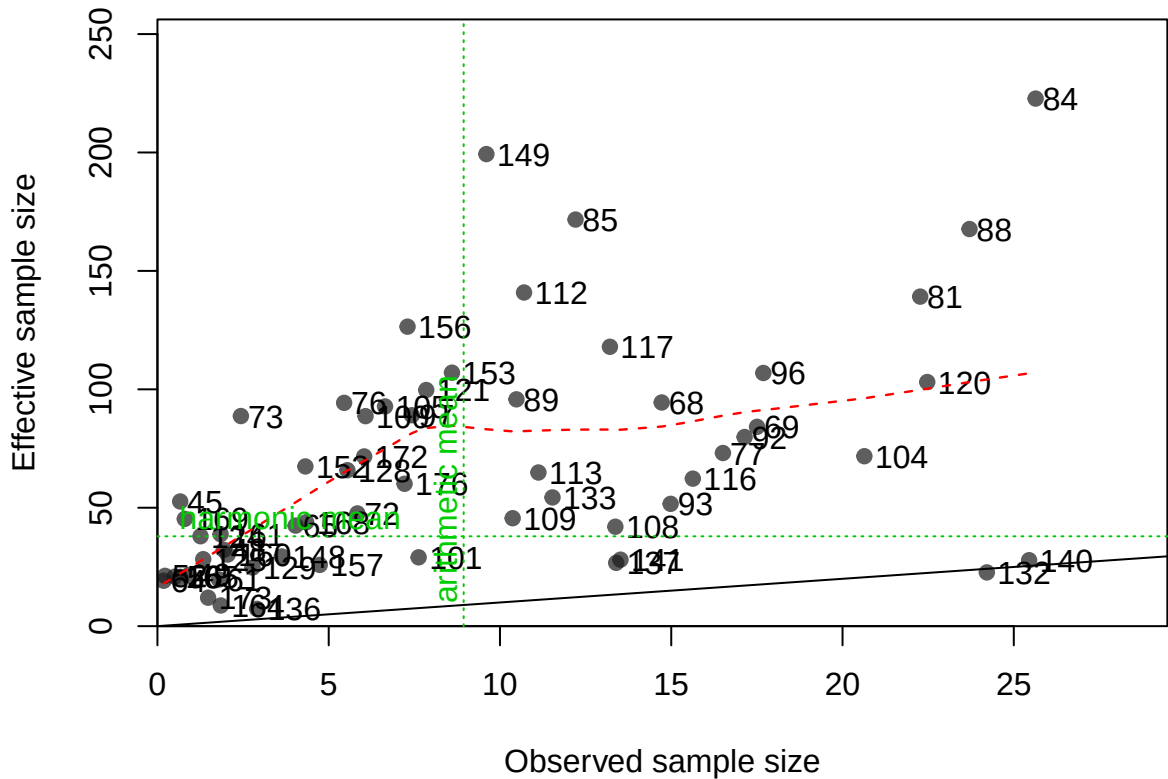




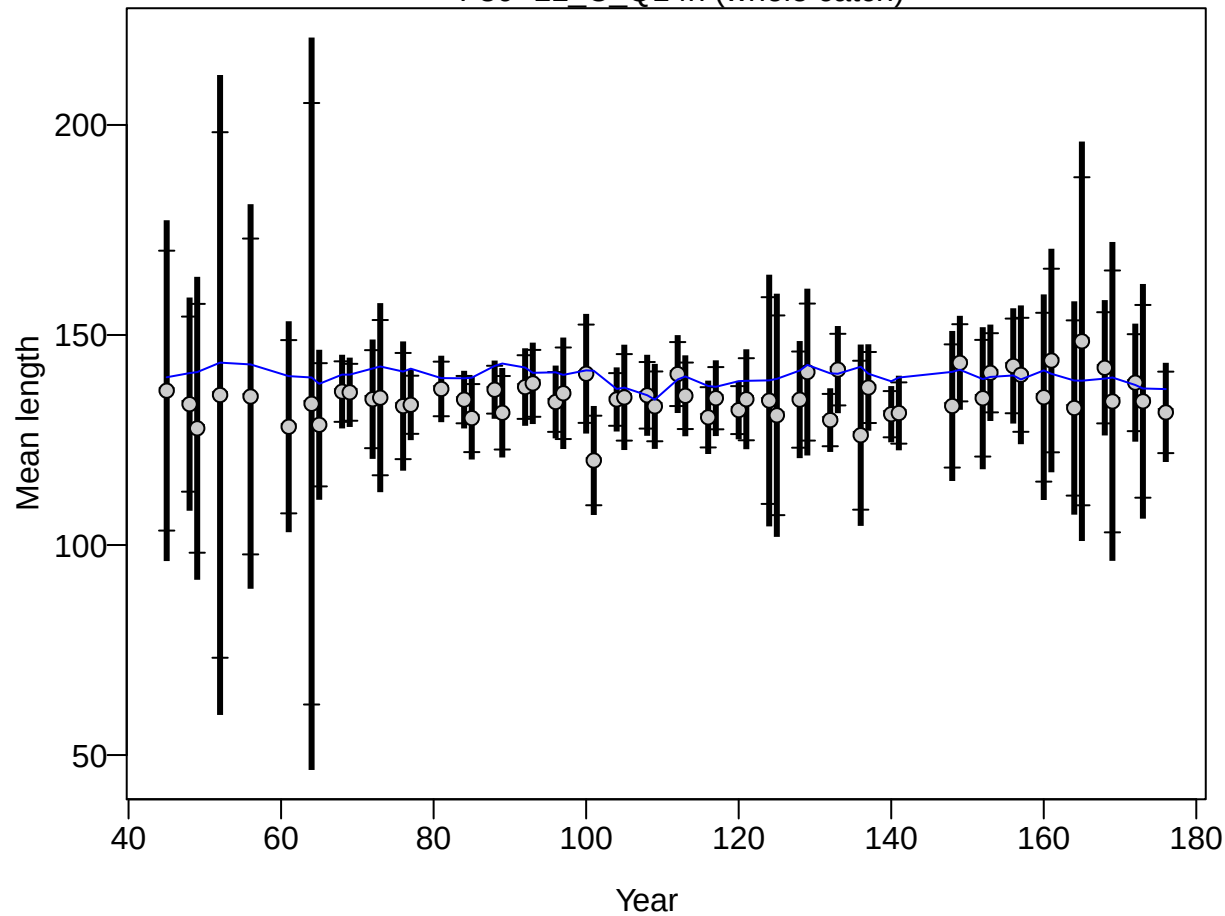
Proportion





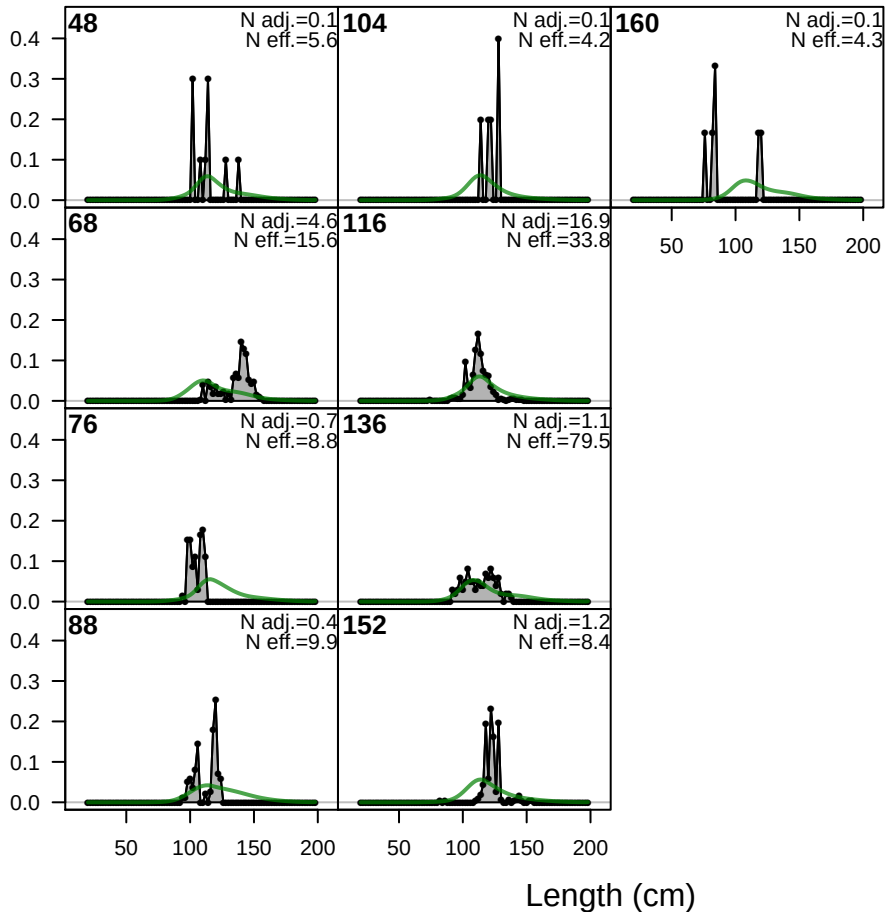


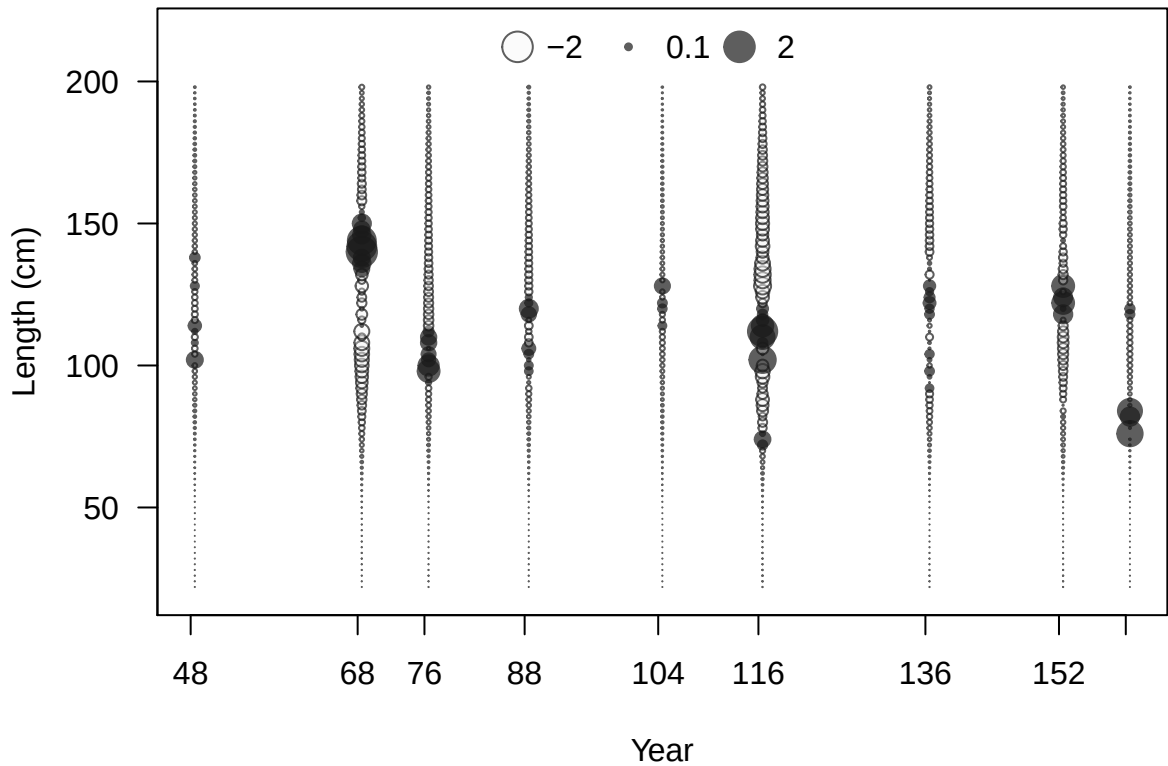
F30-LL\_C\_Q14n (whole catch)



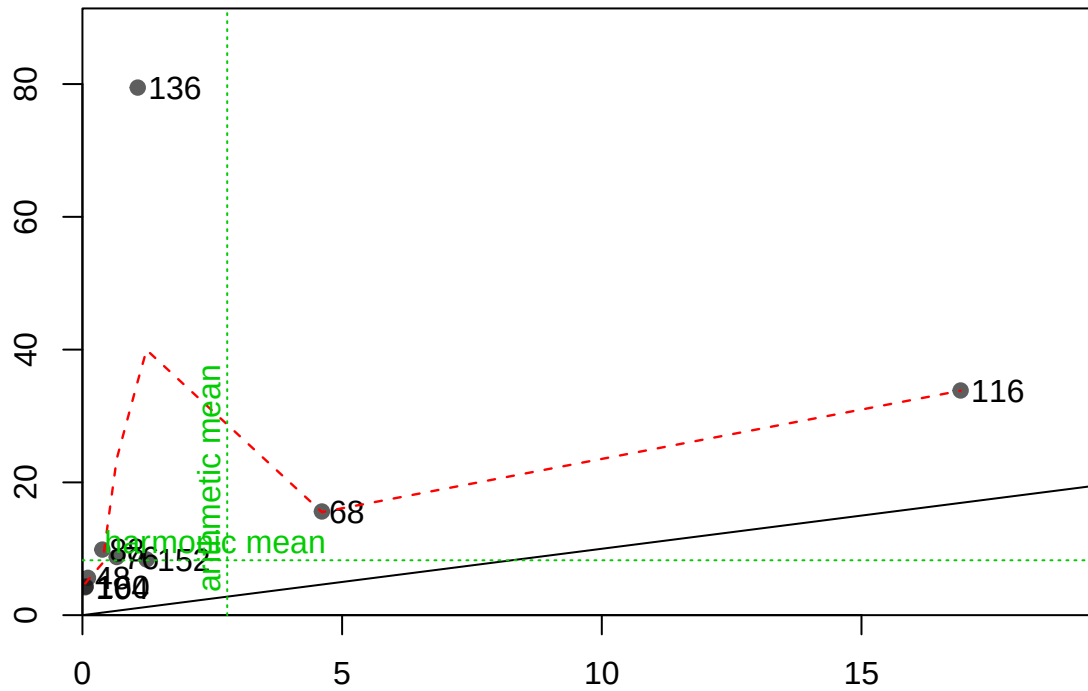


Proportion



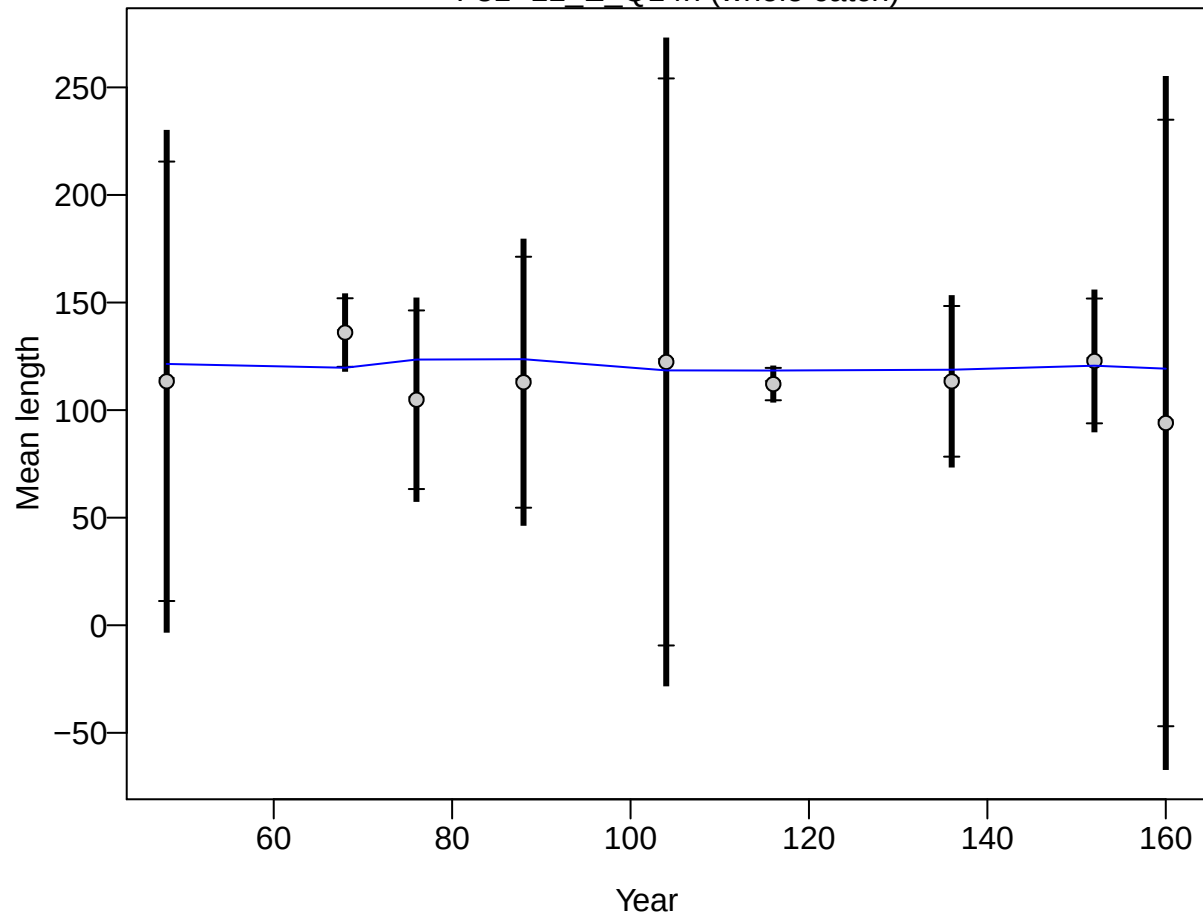


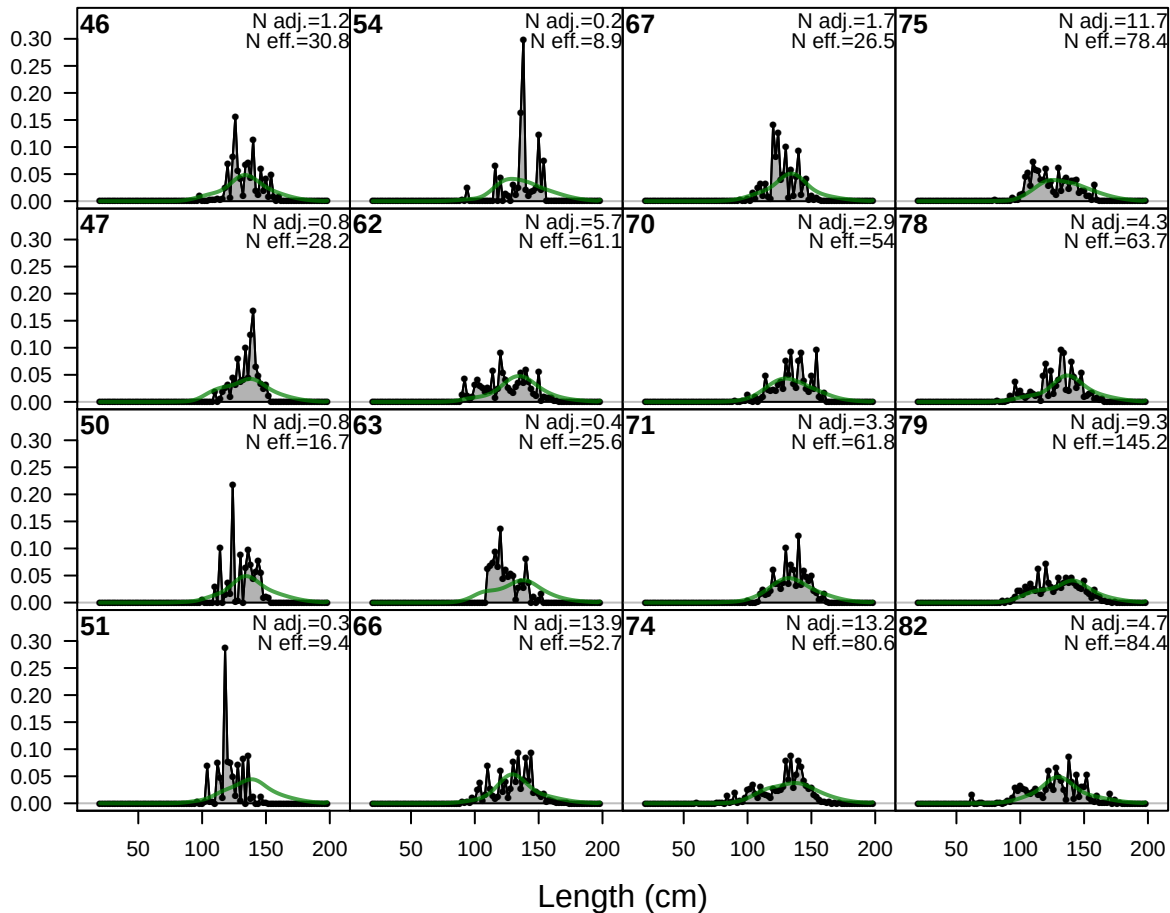
Effective sample size

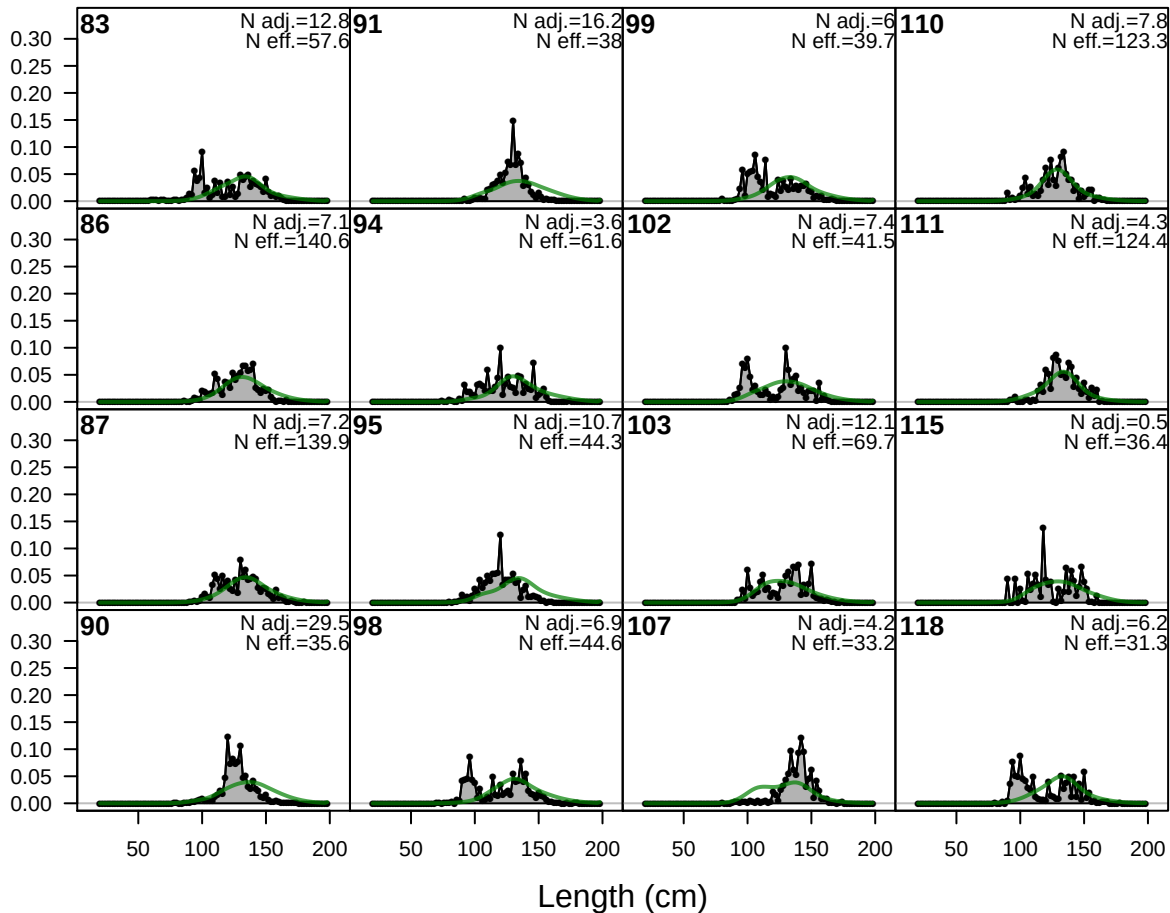


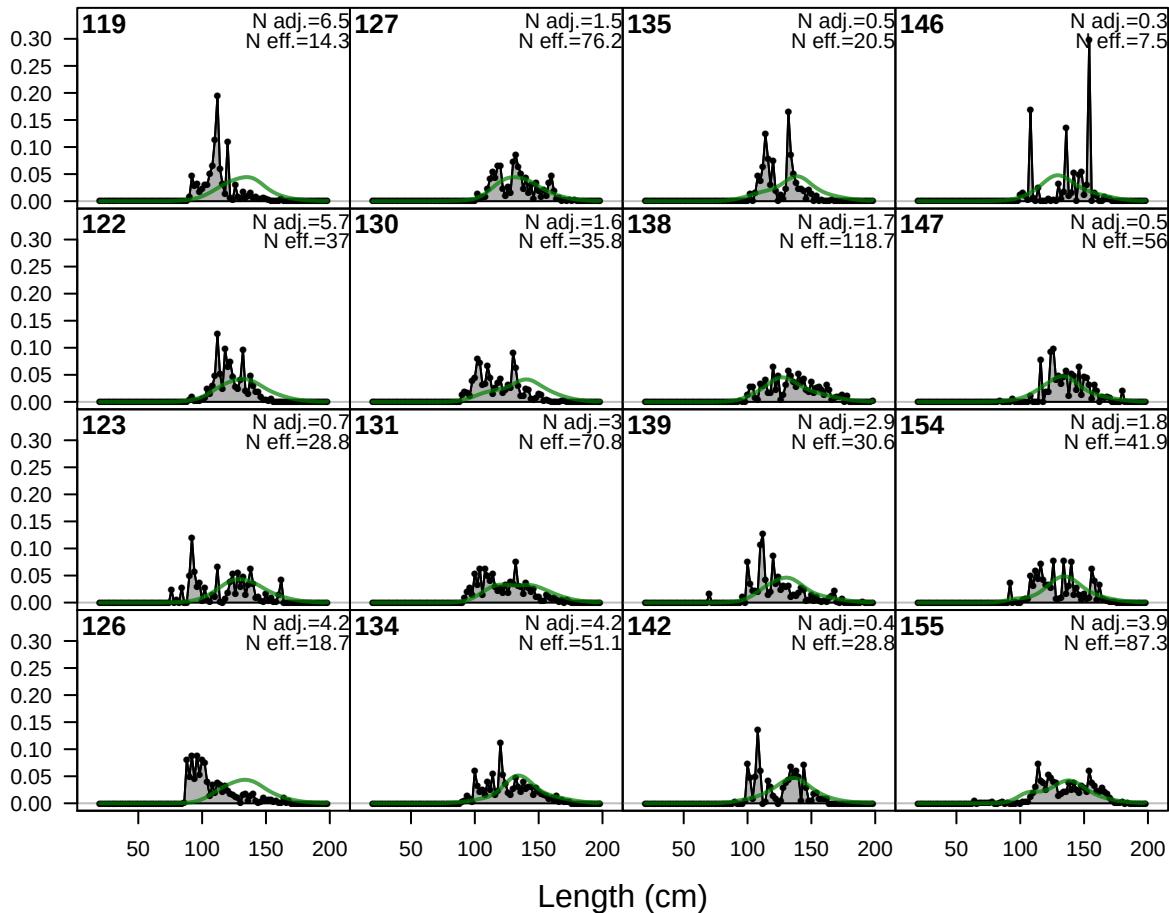
Observed sample size

F31-LL E\_Q14n (whole catch)

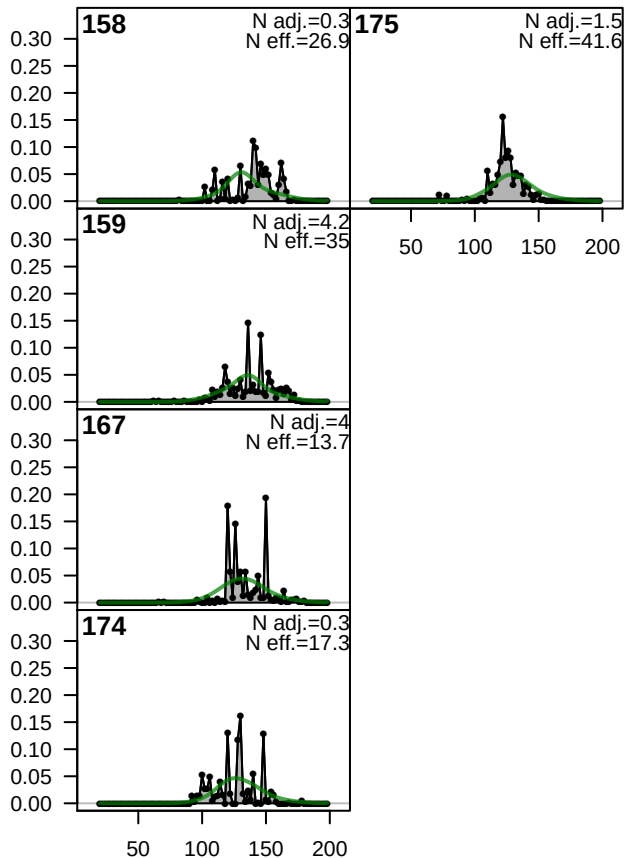






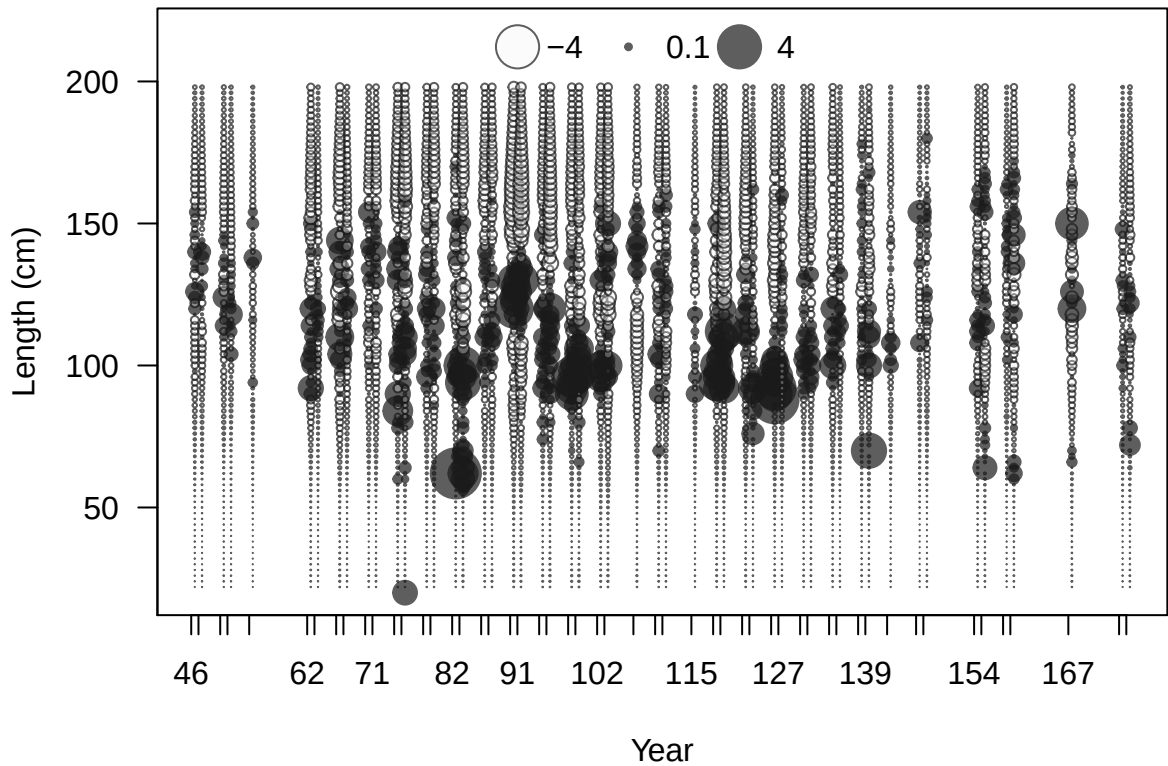


Proportion

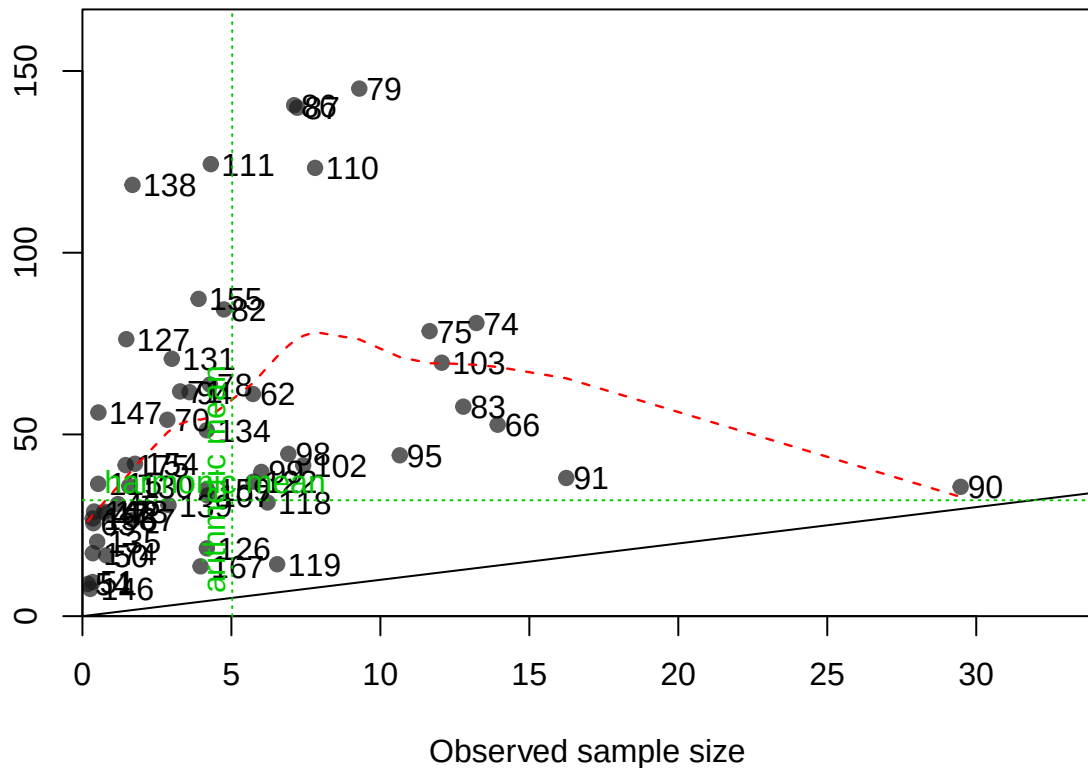


Length (cm)

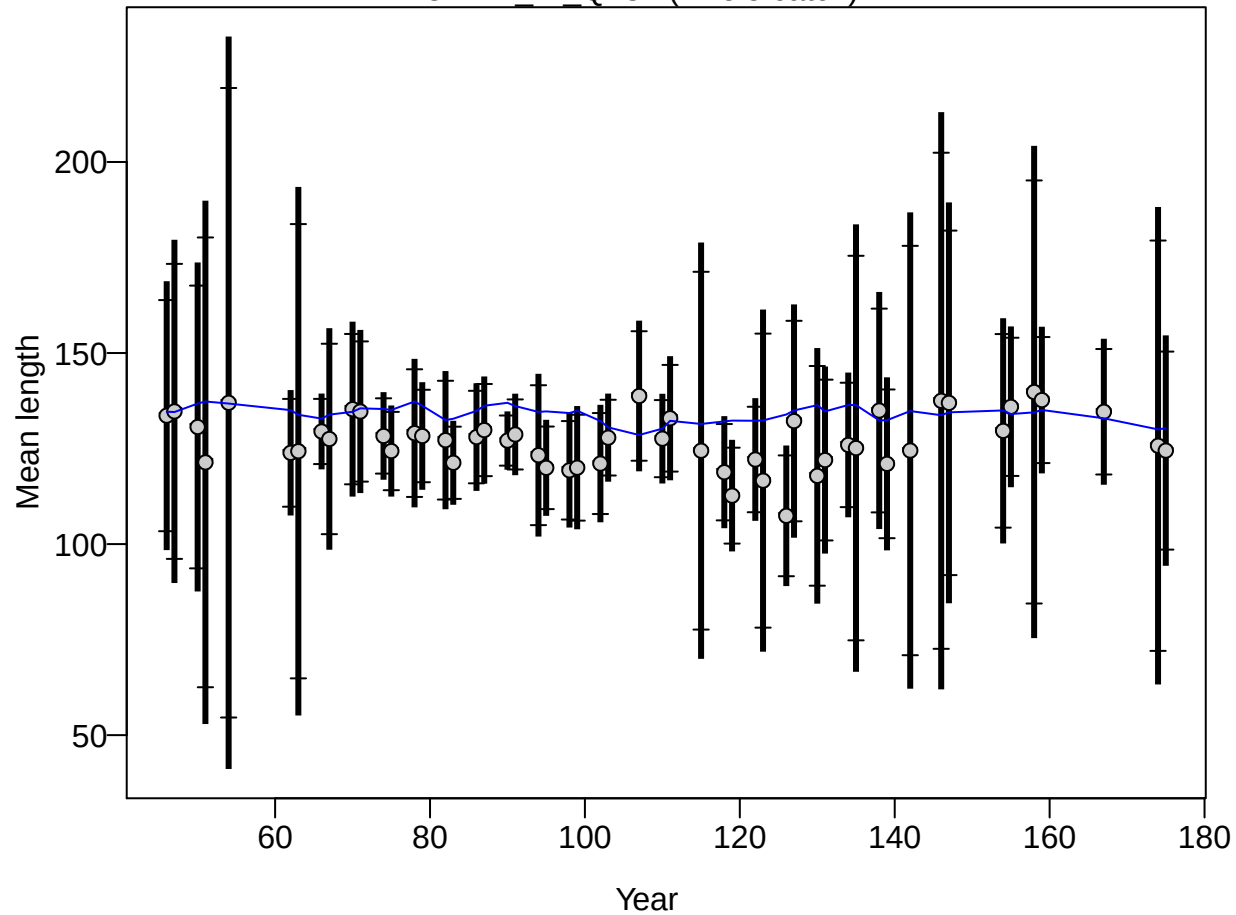


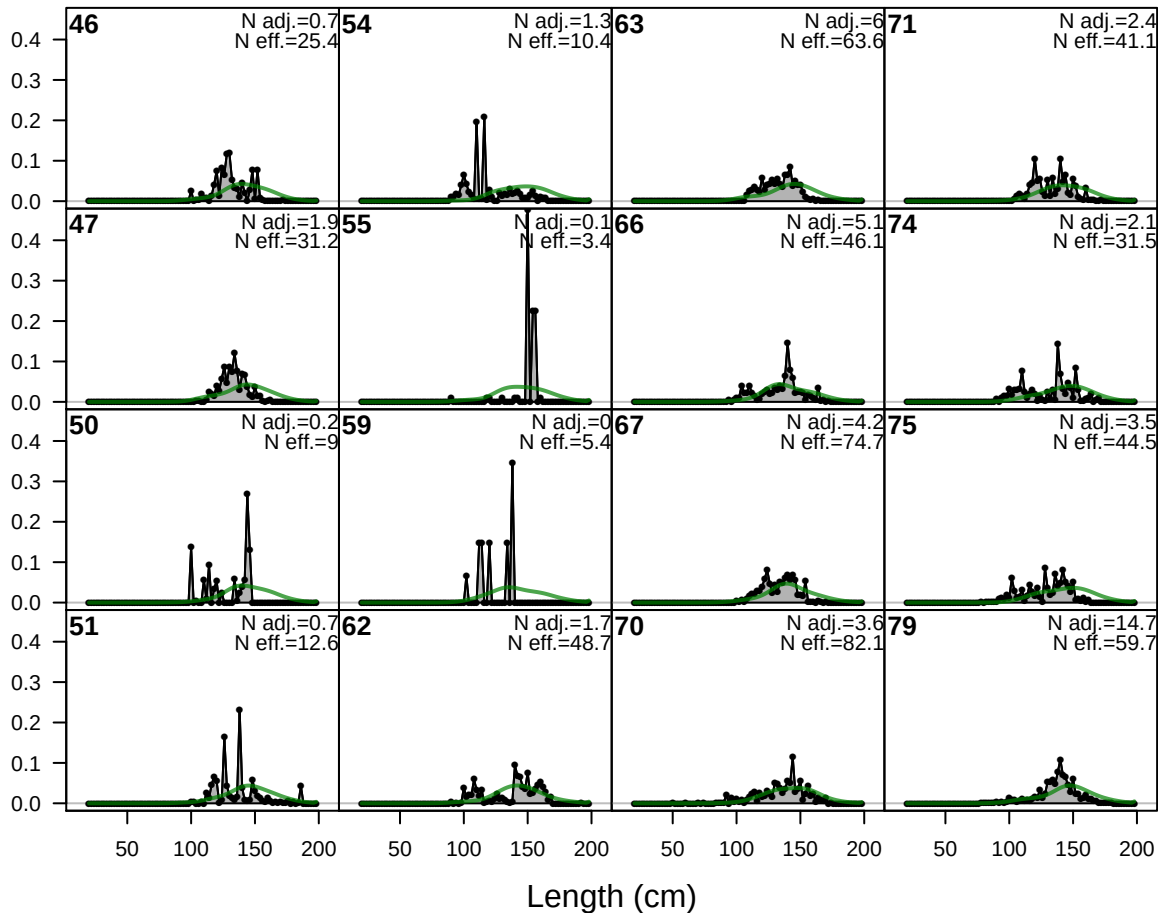


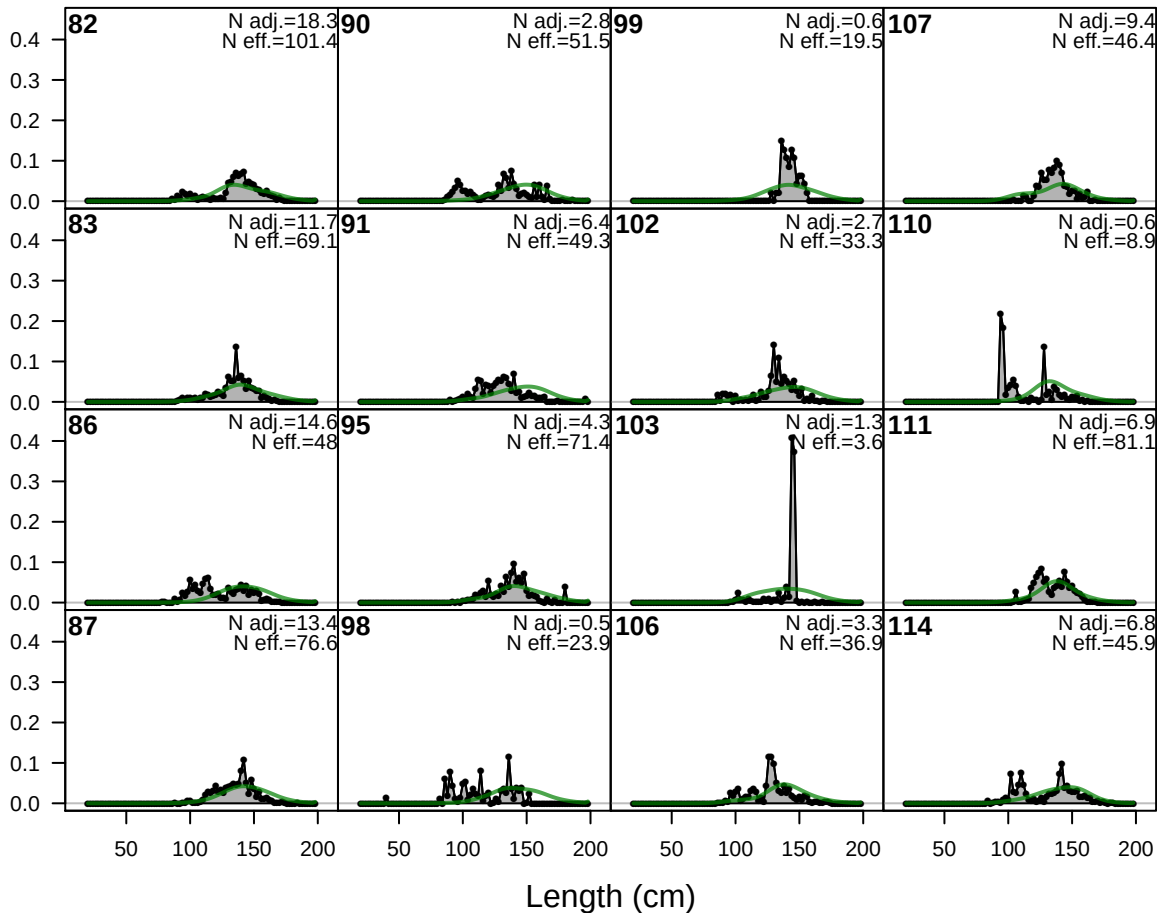
Effective sample size

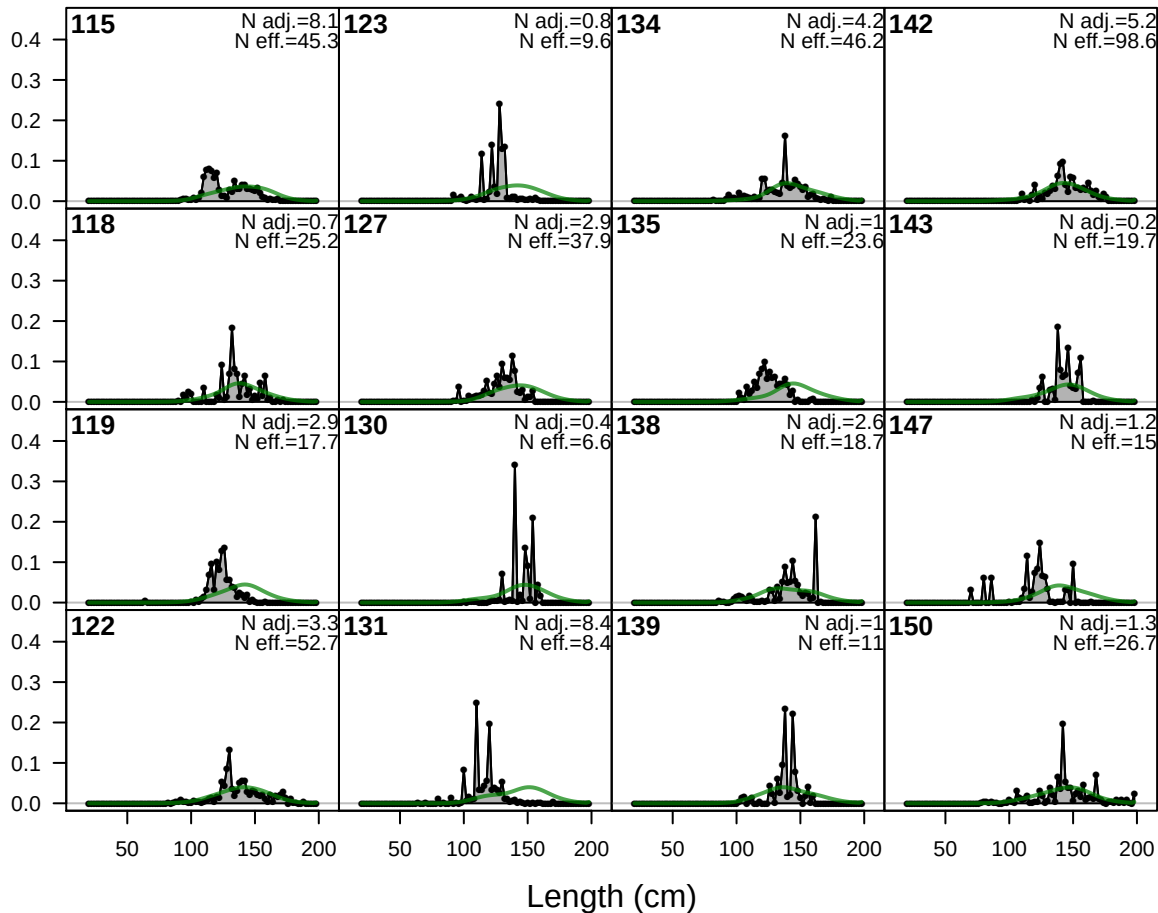


F32-LL\_W\_Q23n (whole catch)

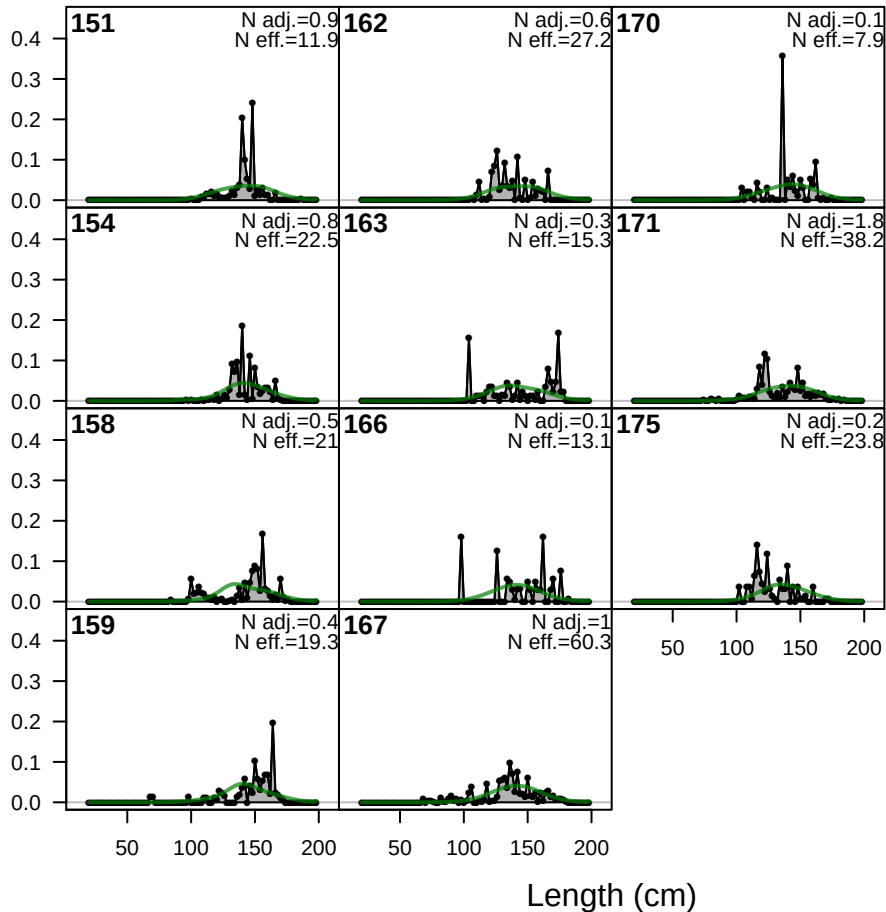


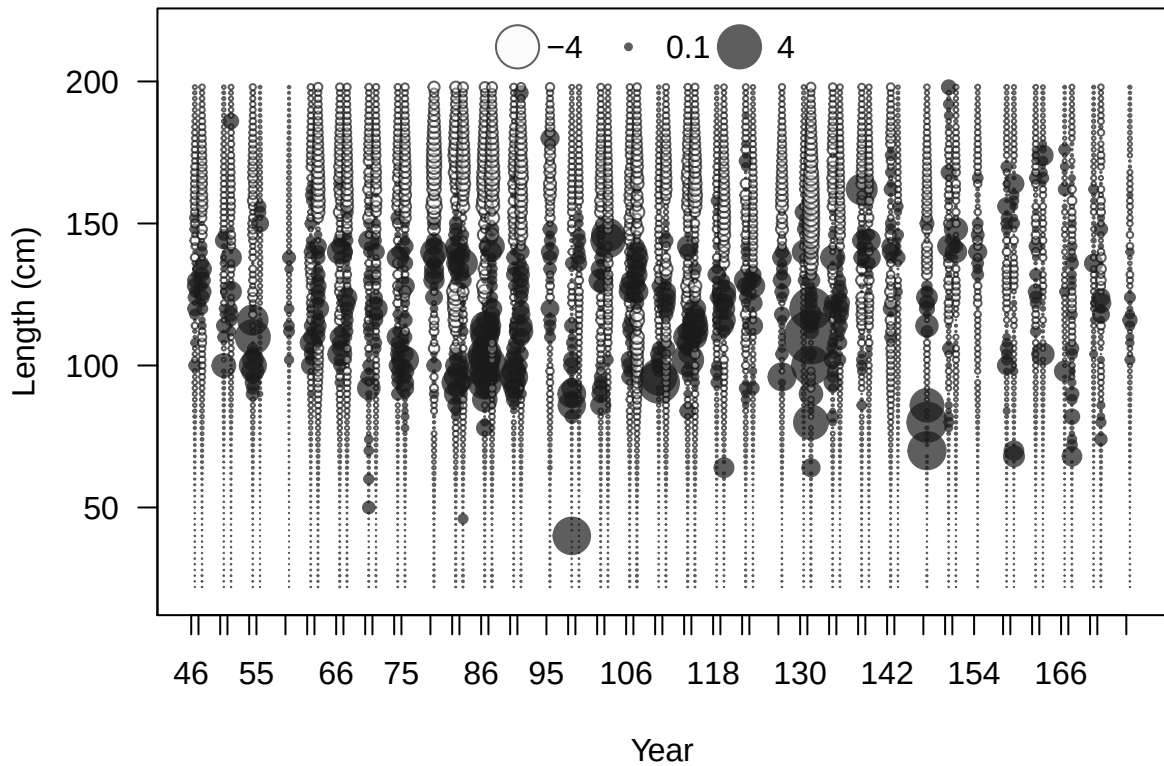






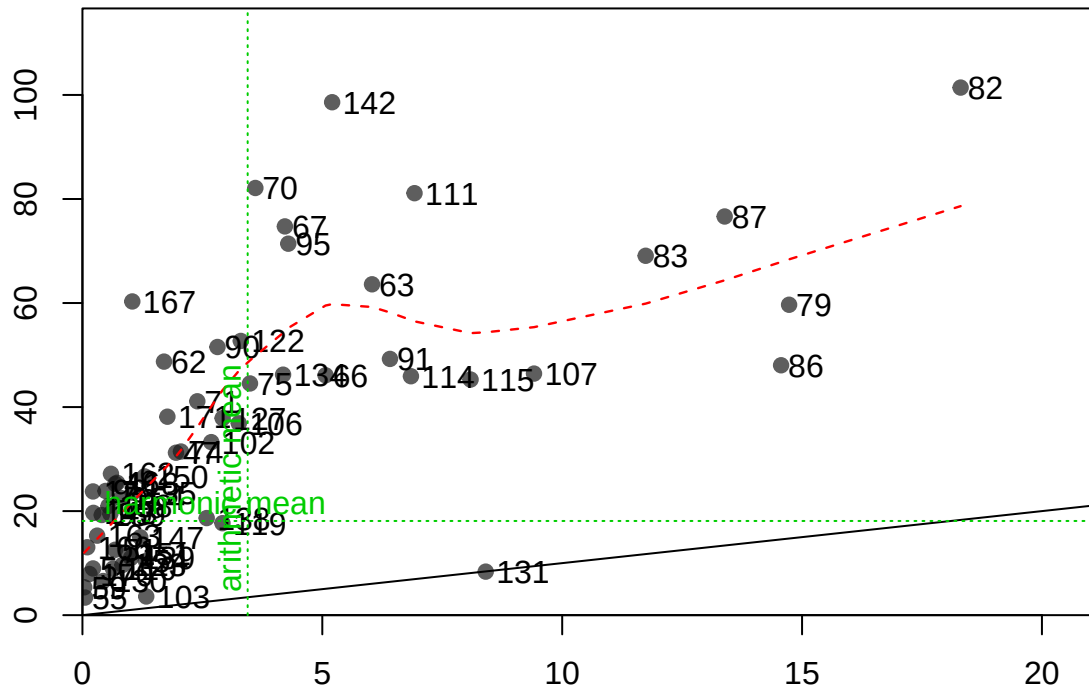
Proportion





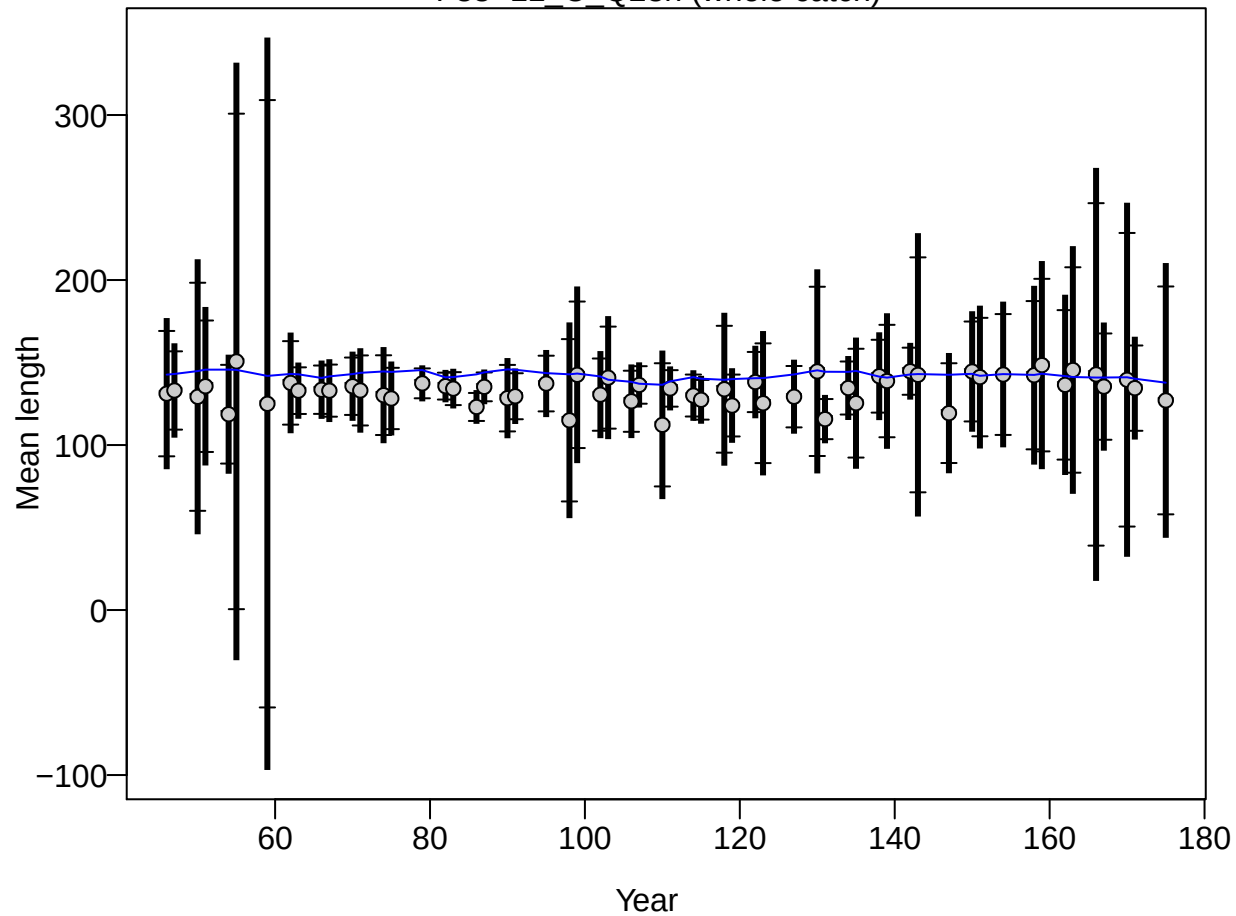


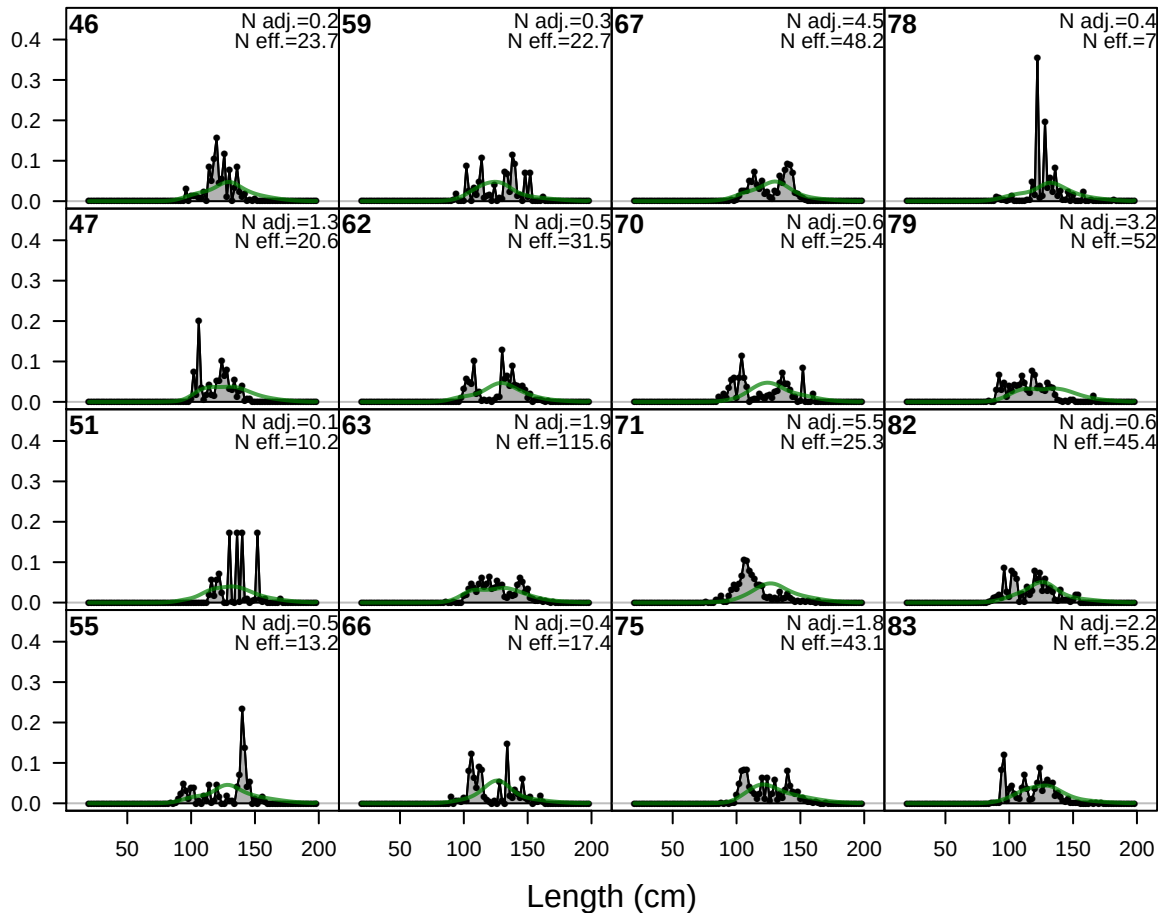
Effective sample size

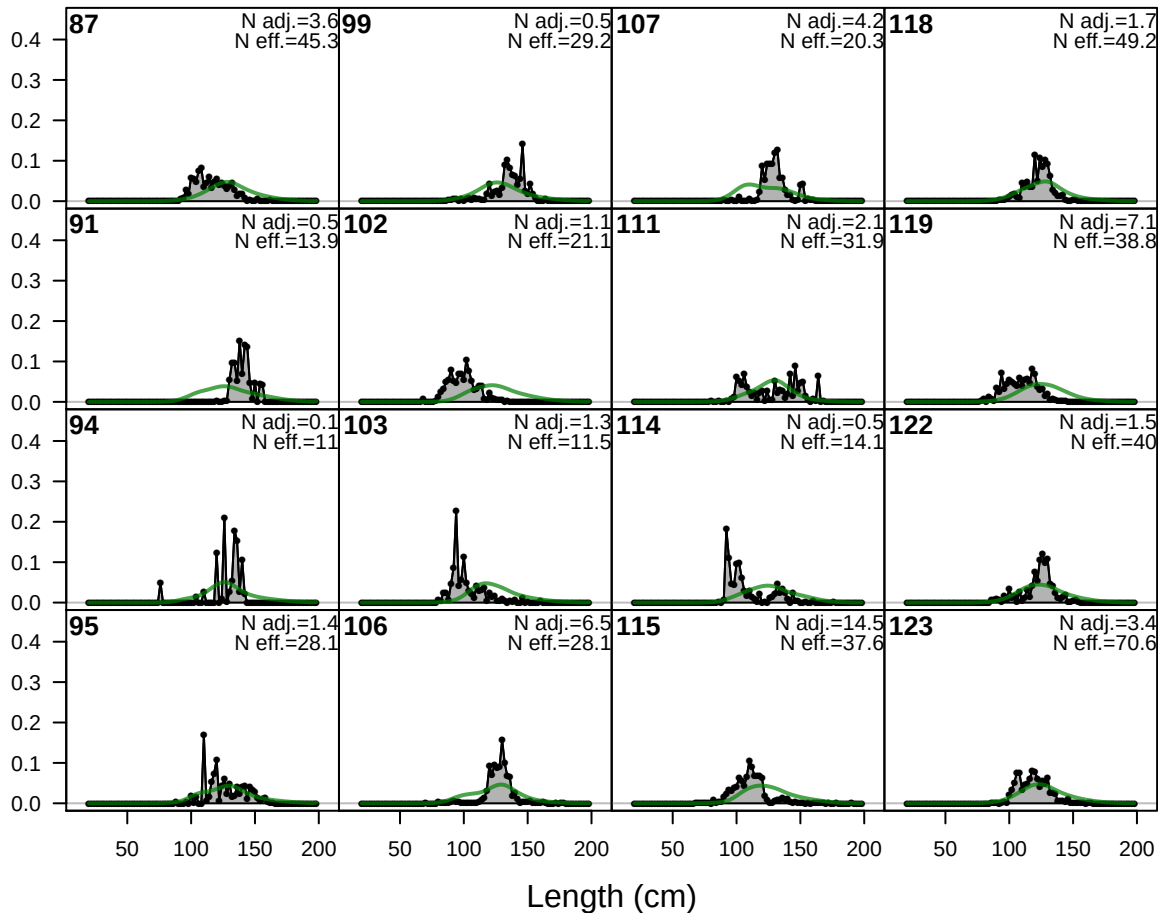


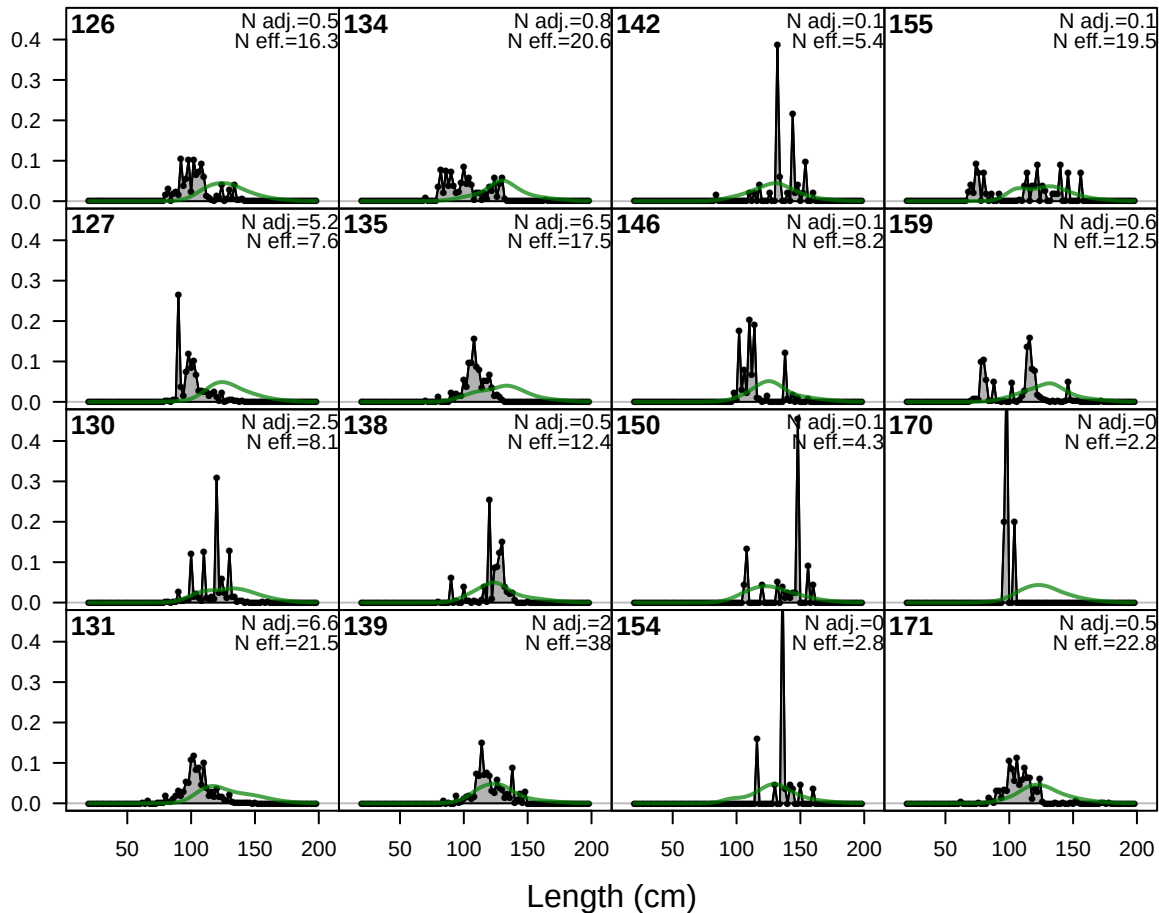
Observed sample size

F33-LL\_C\_Q23n (whole catch)

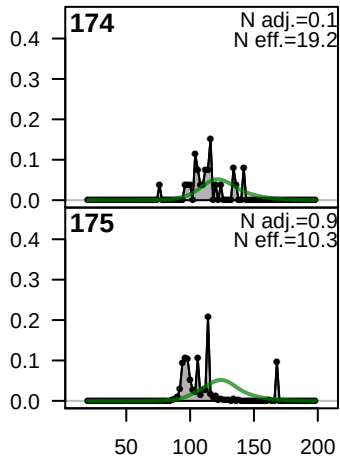




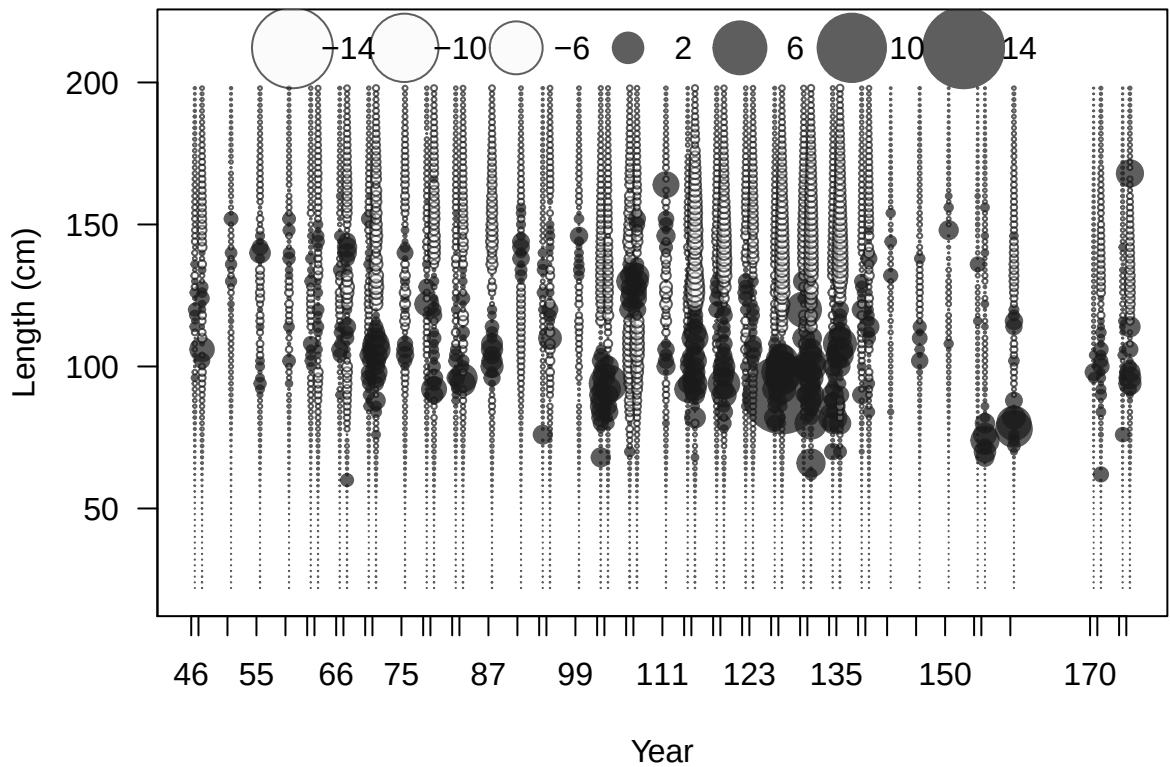


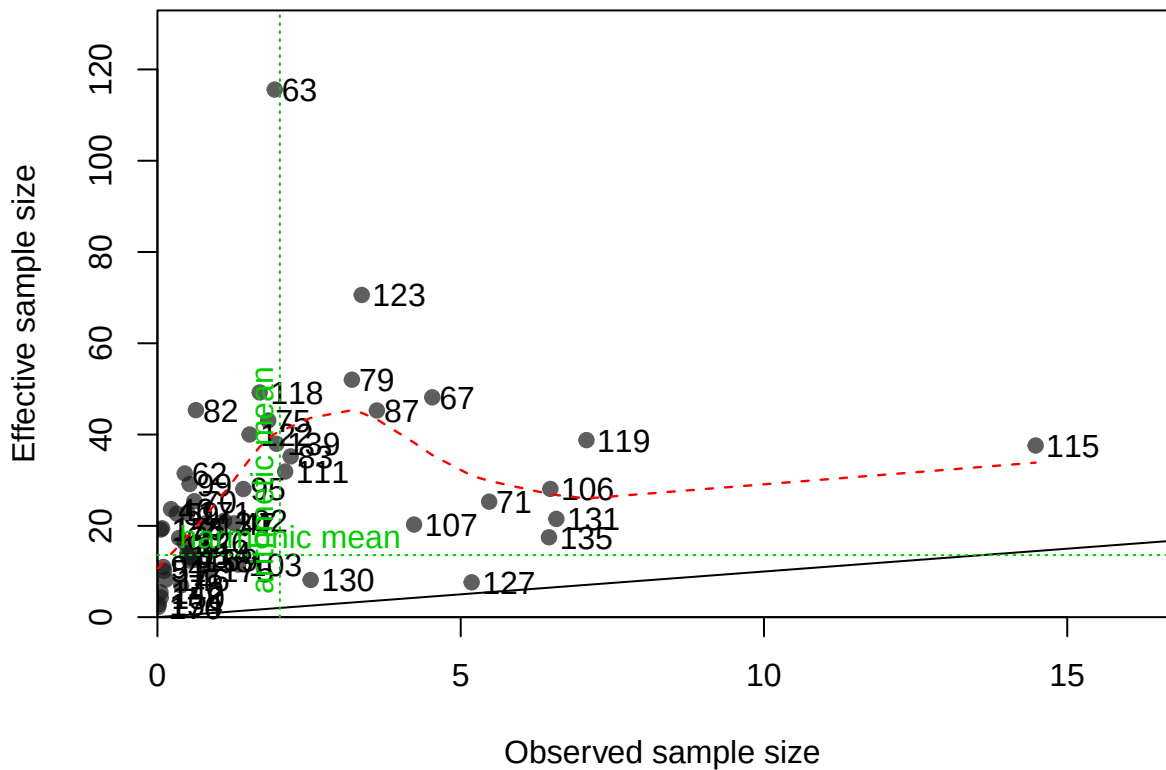


Proportion



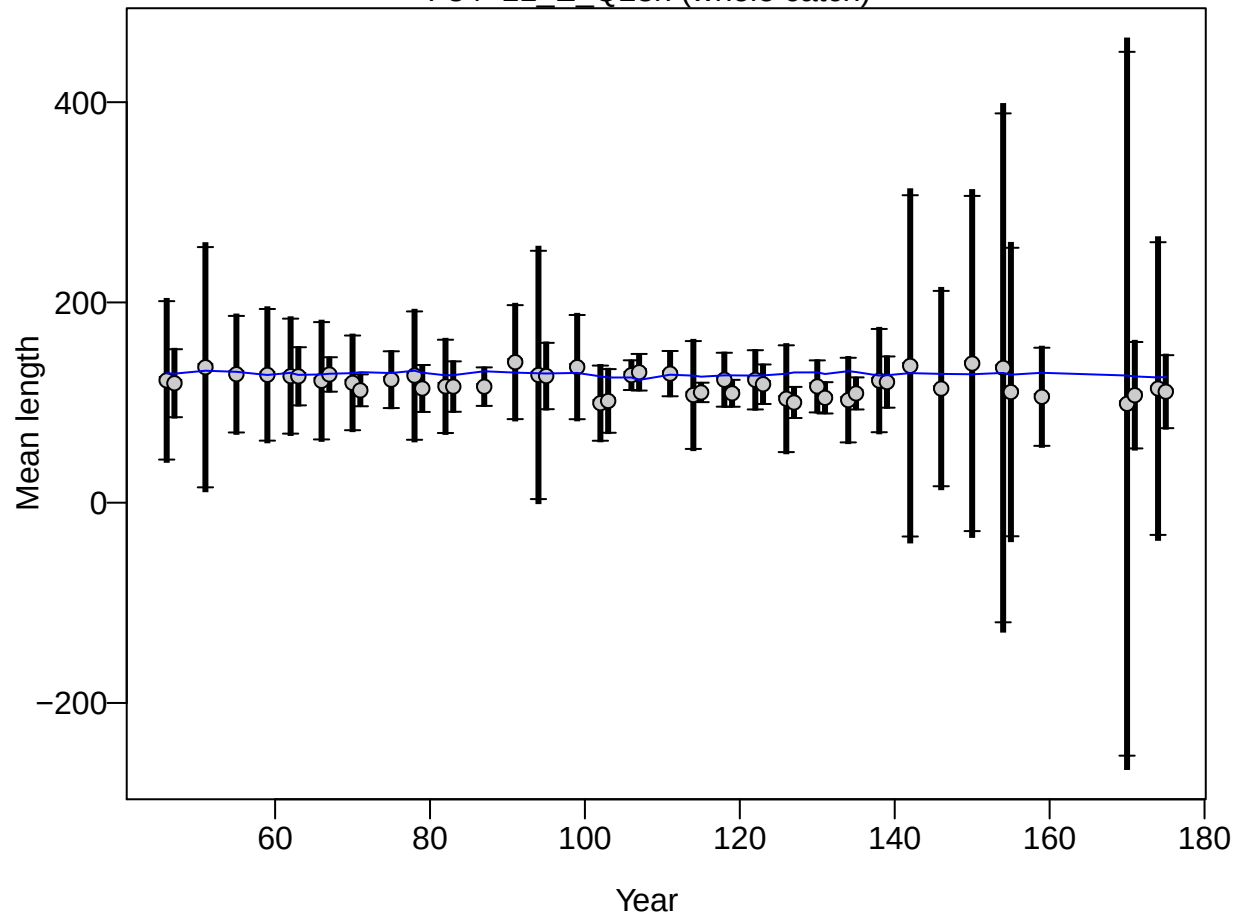
Length (cm)

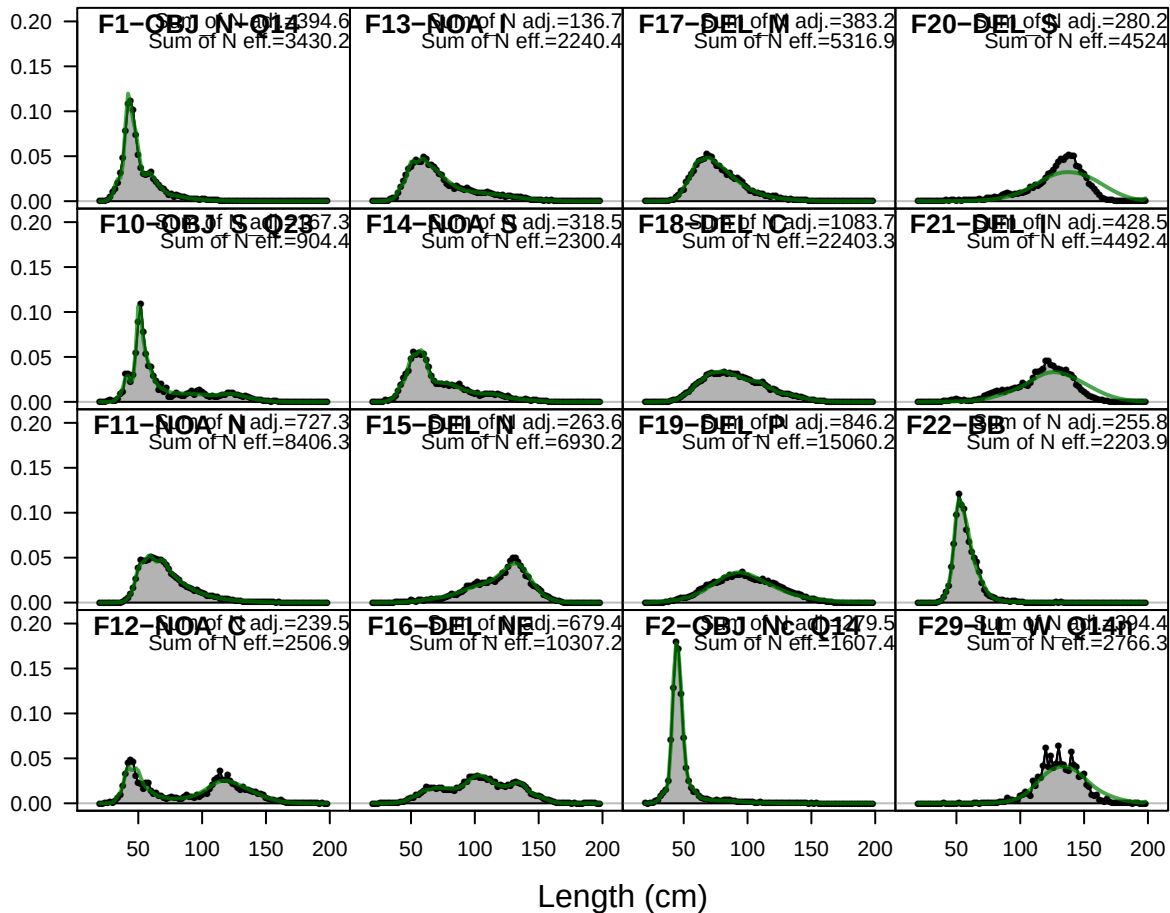


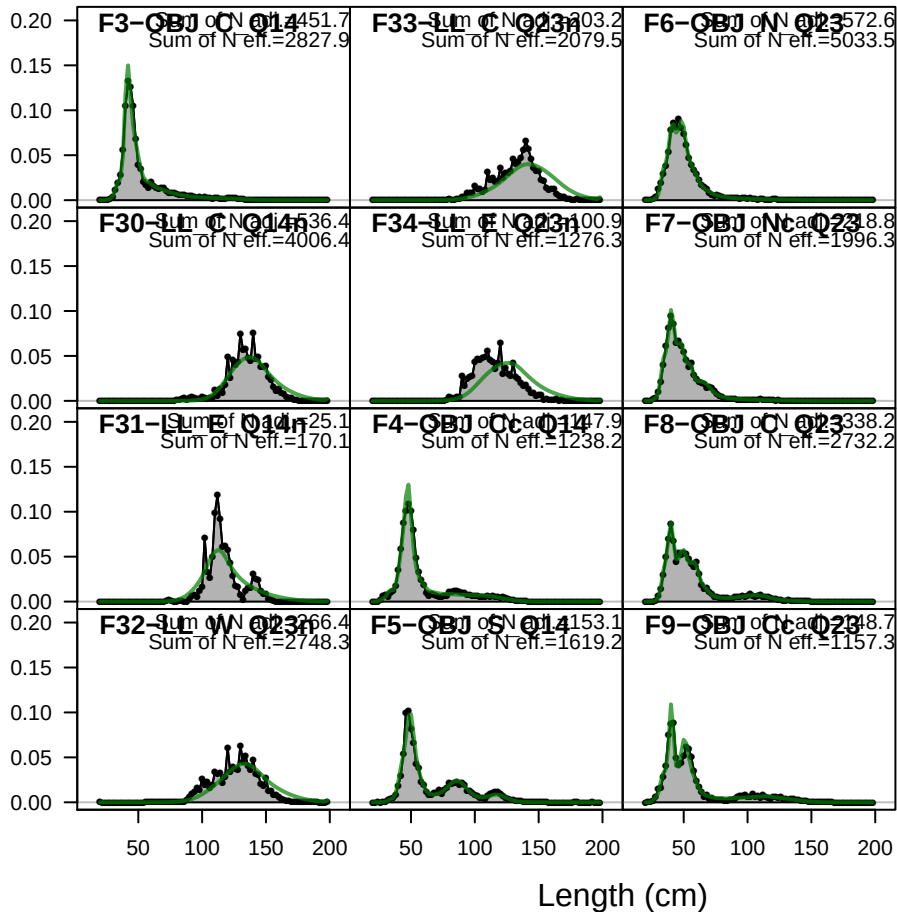


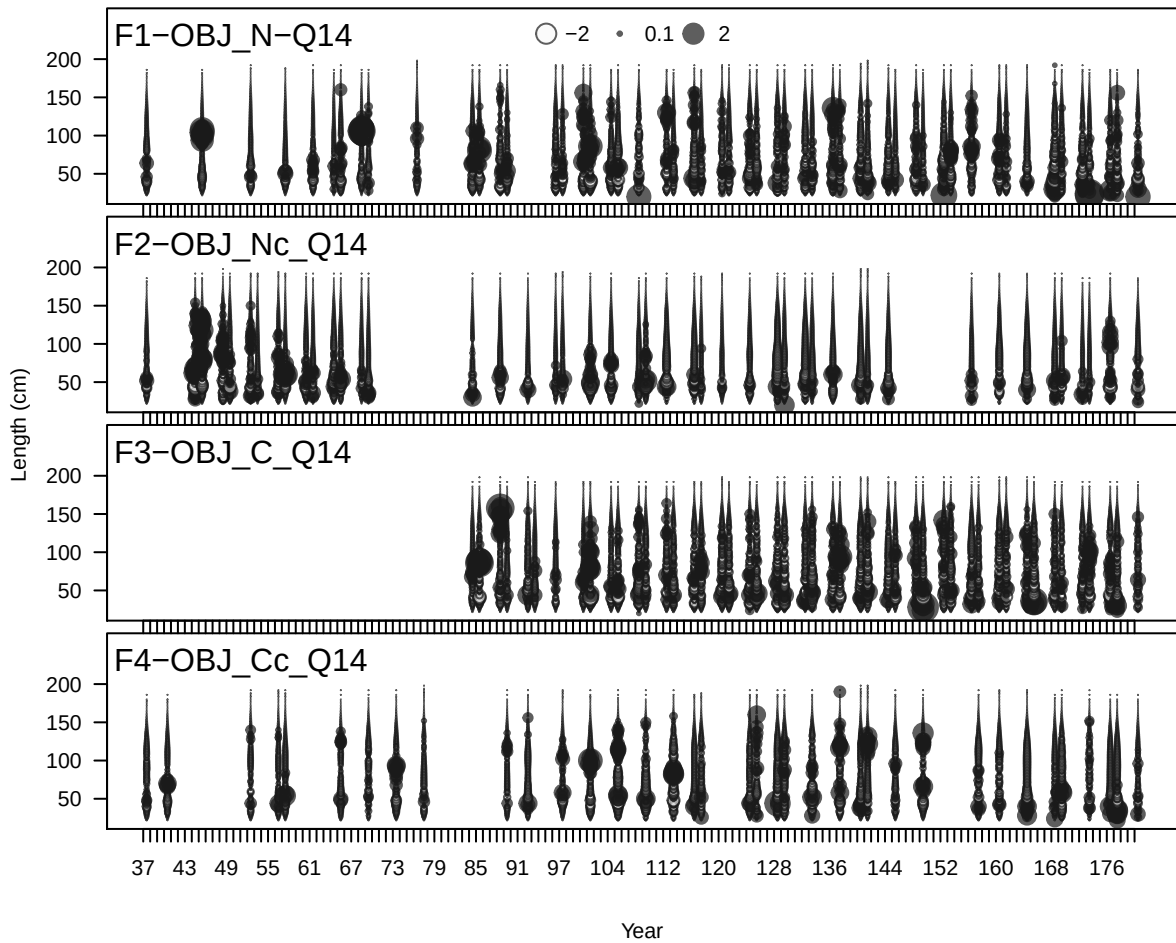


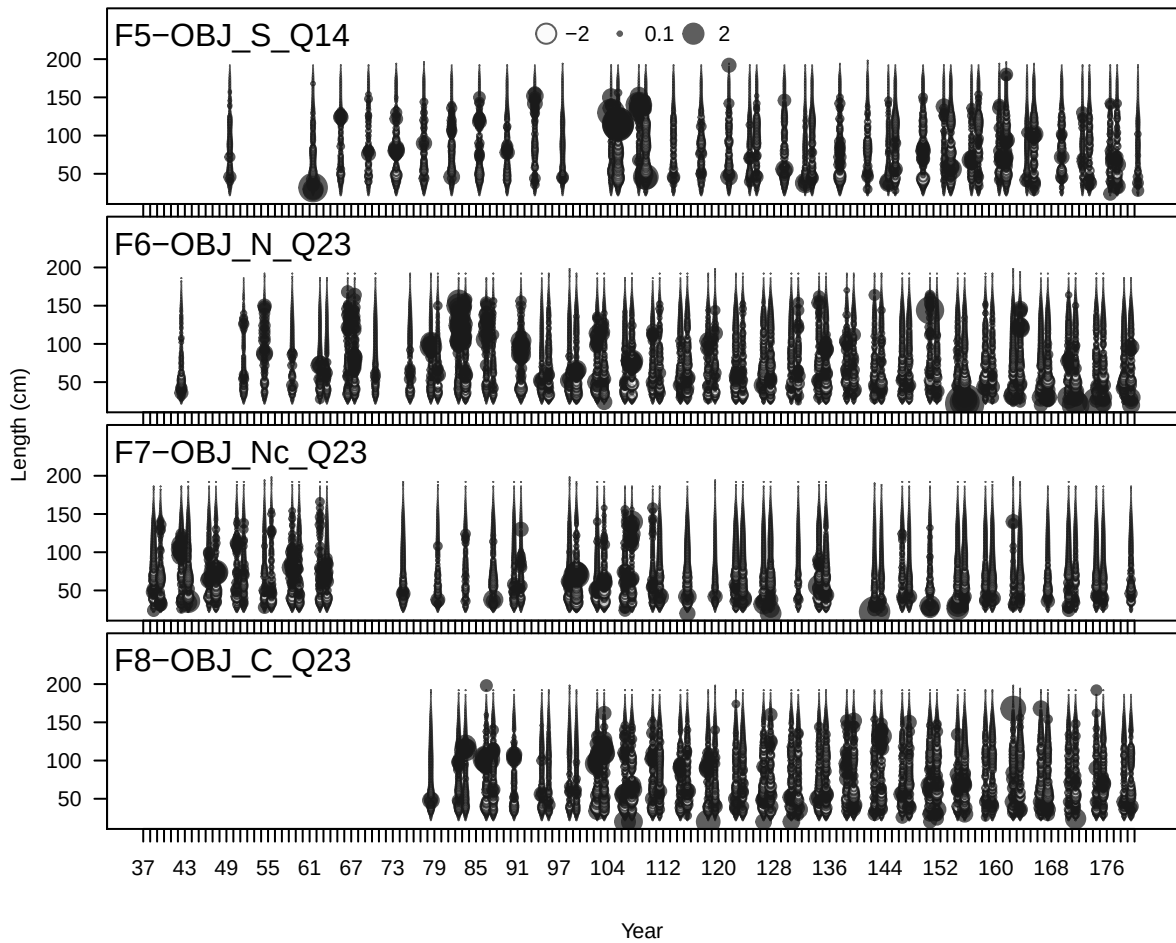
F34-LL E\_Q23n (whole catch)

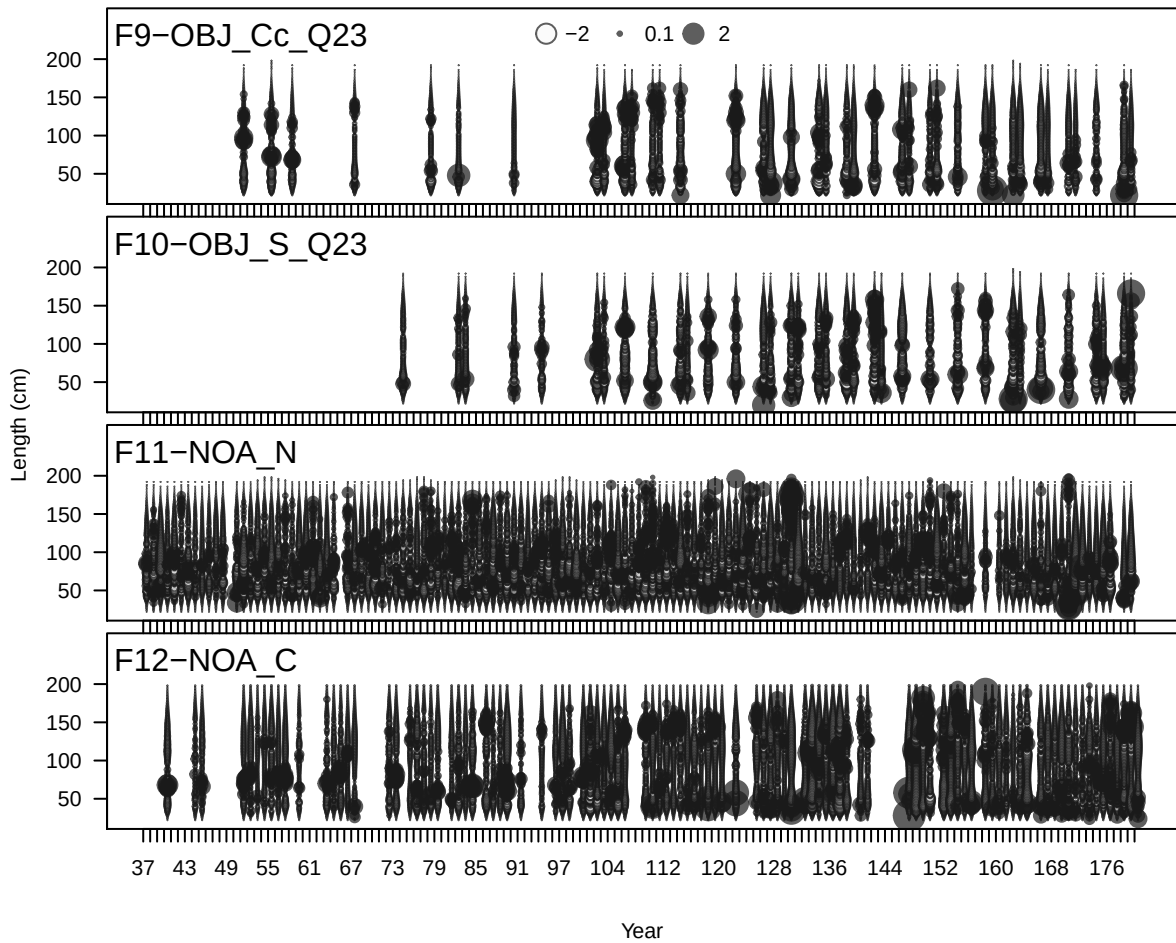


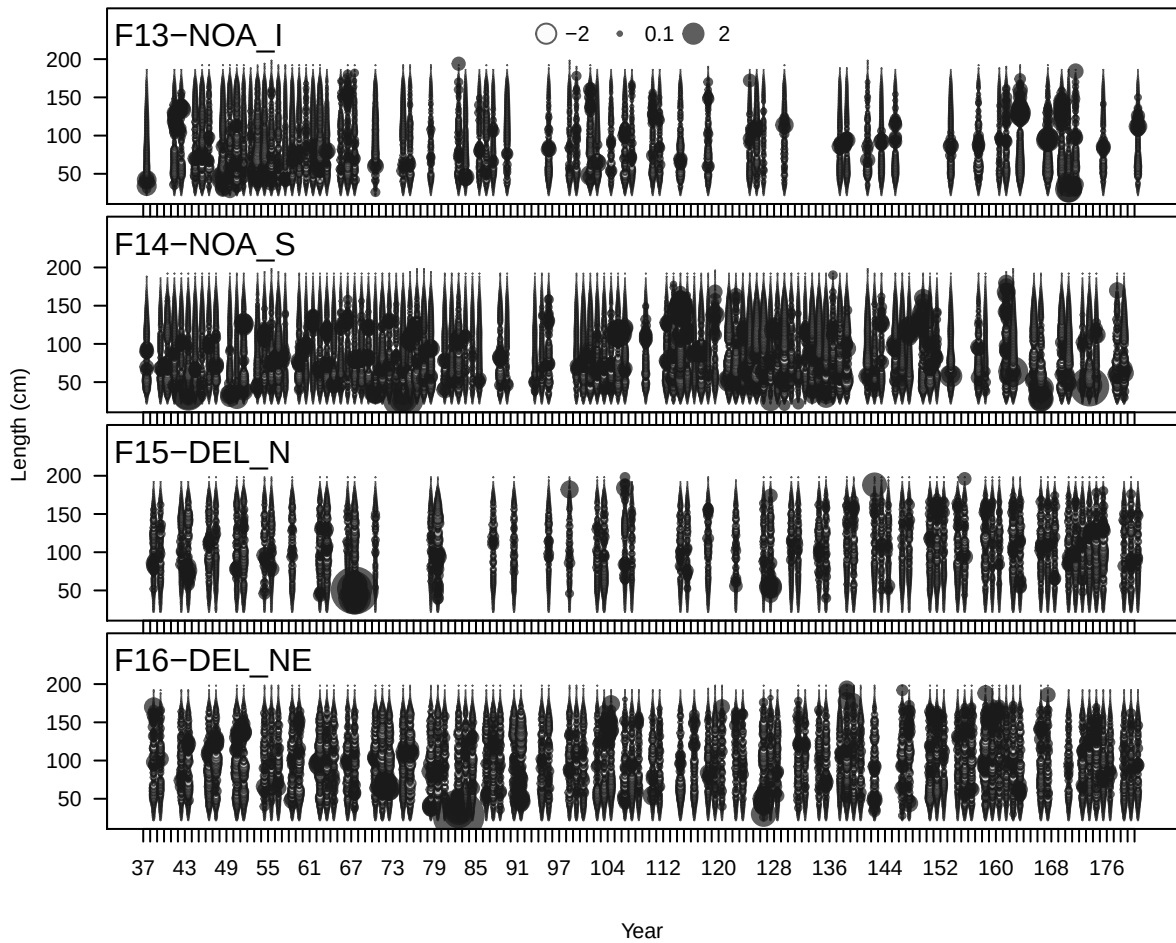


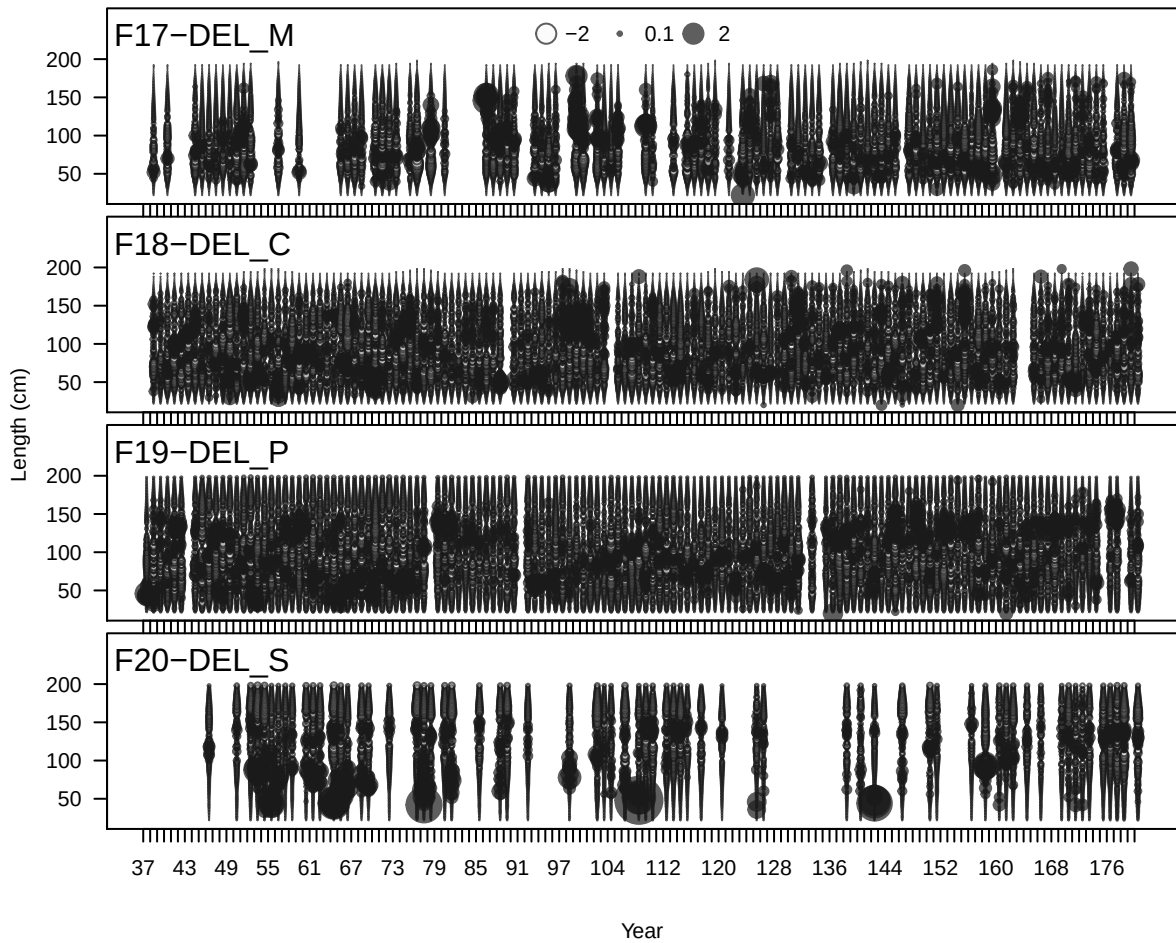




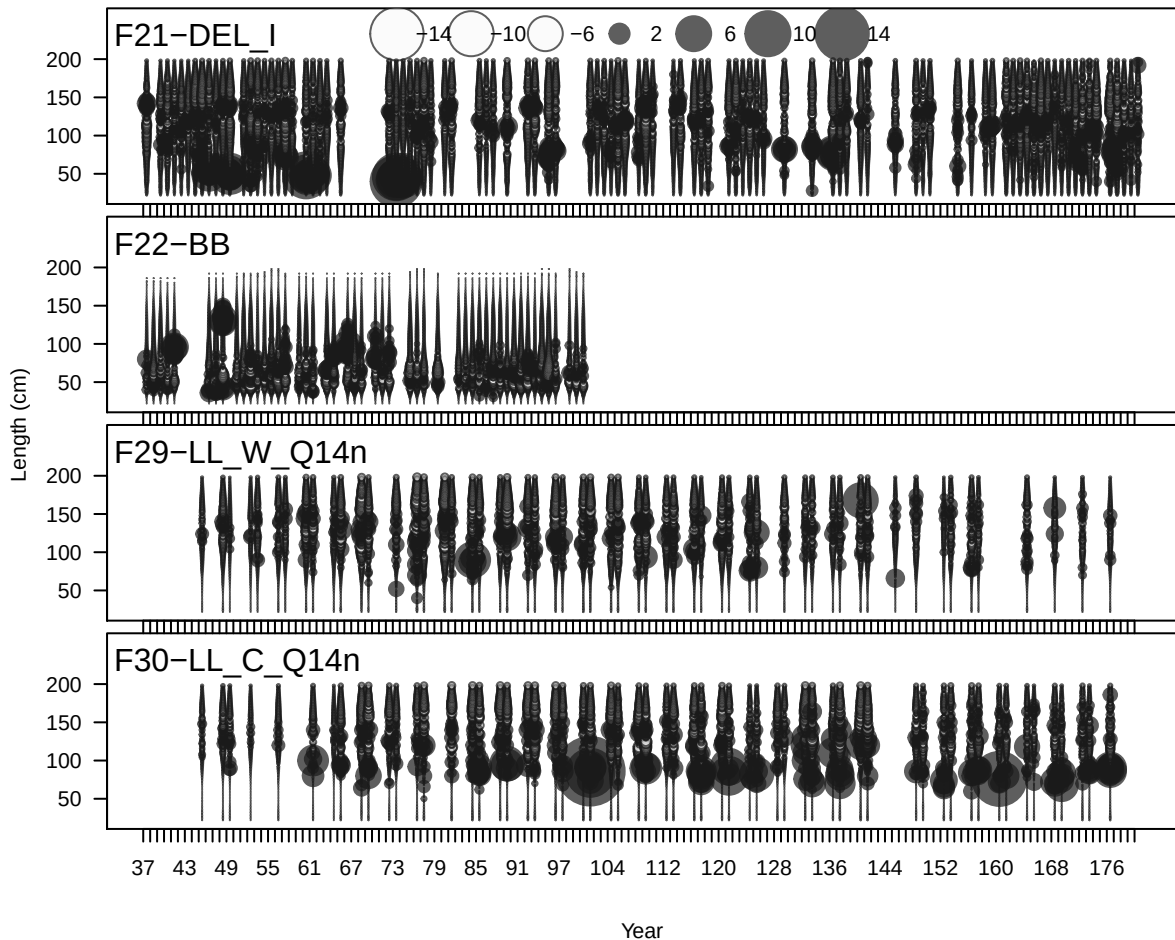


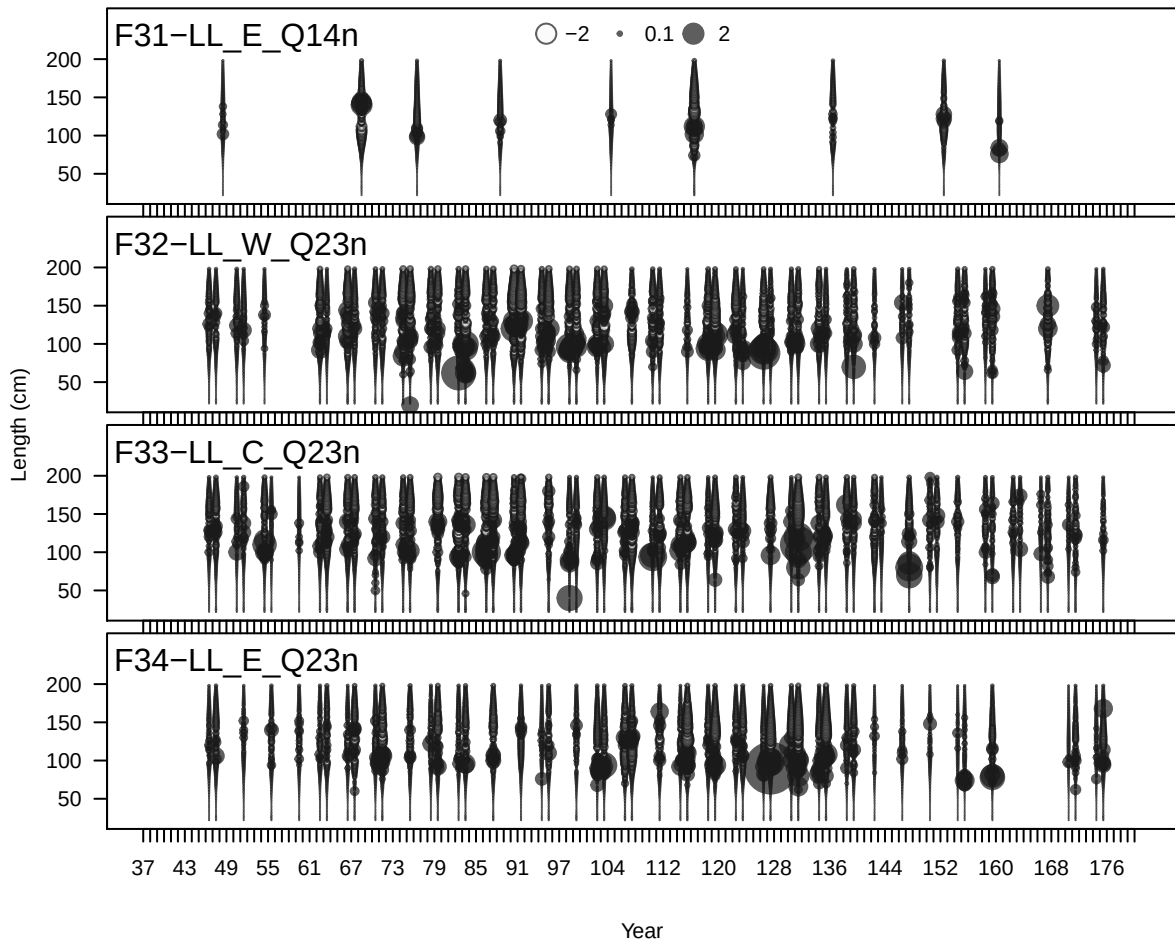


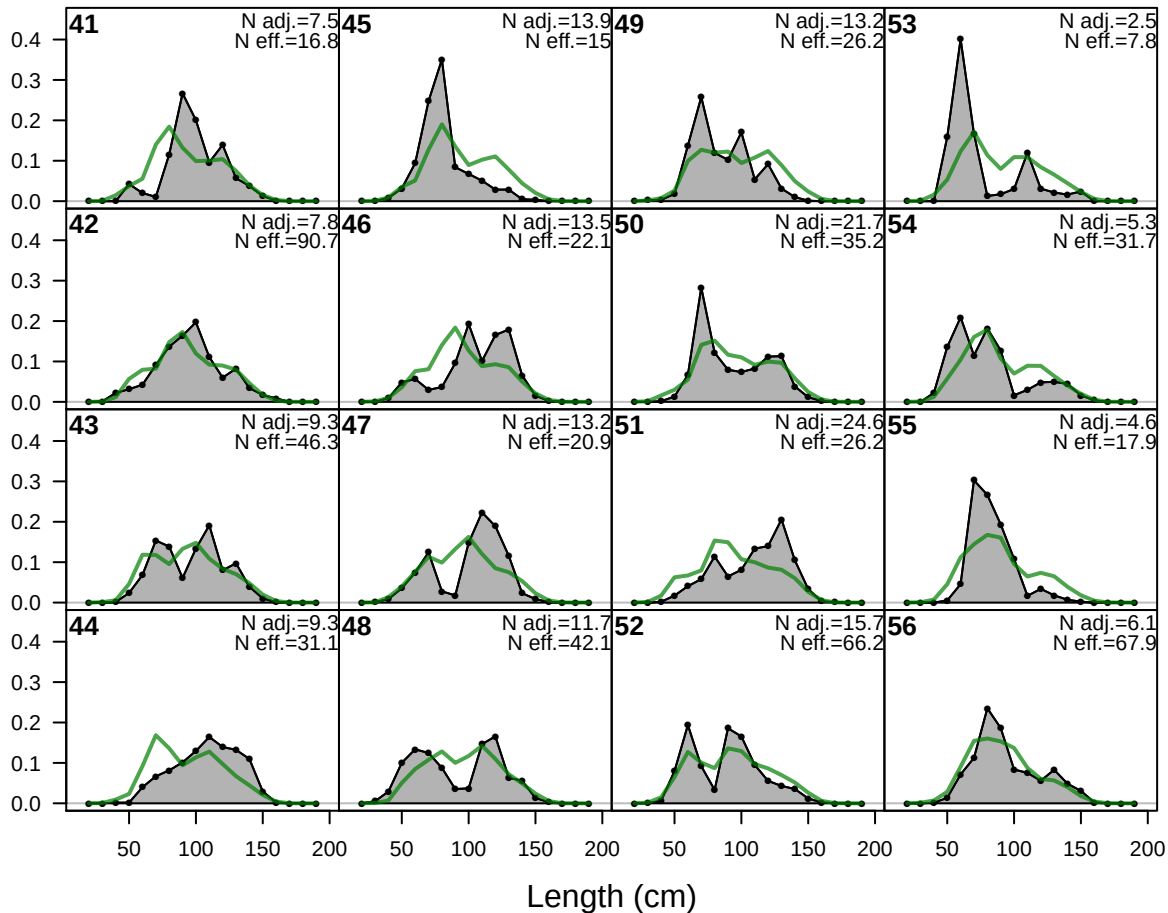


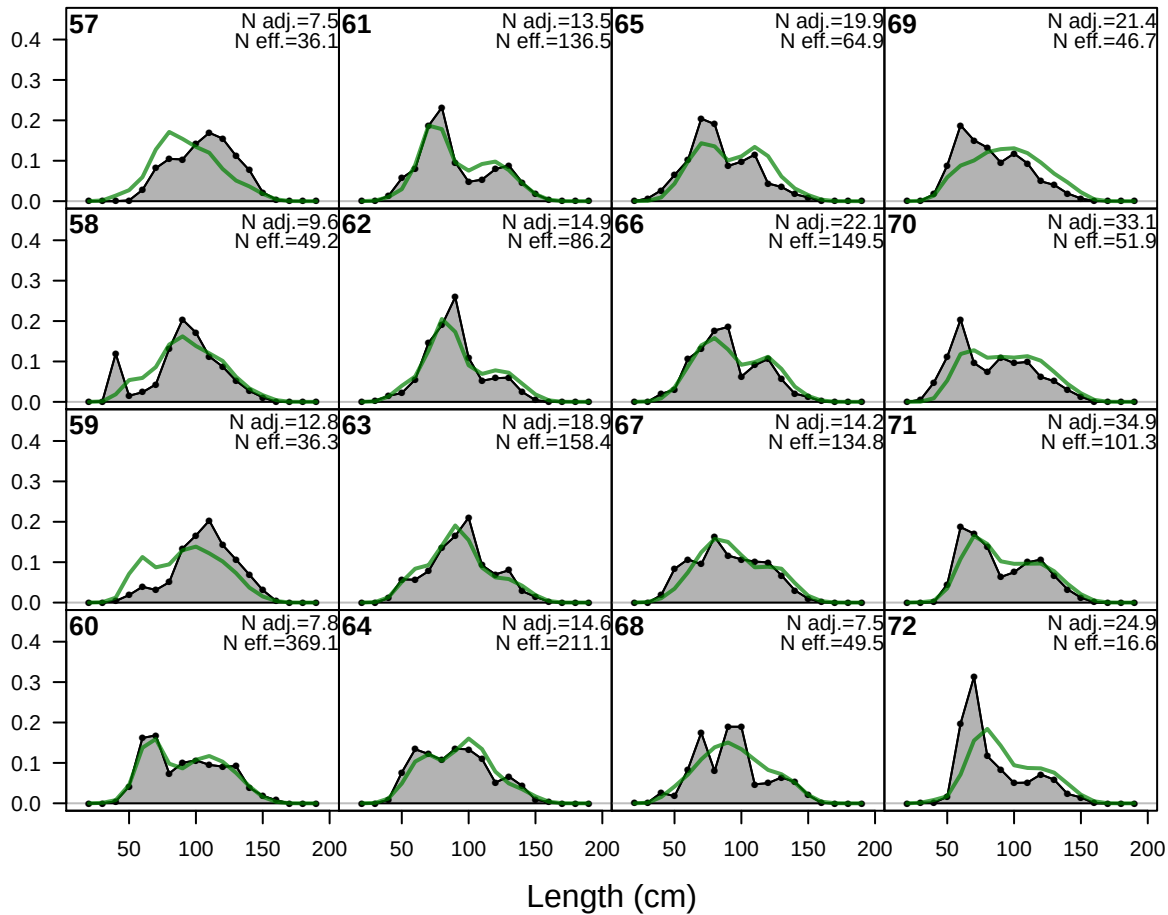


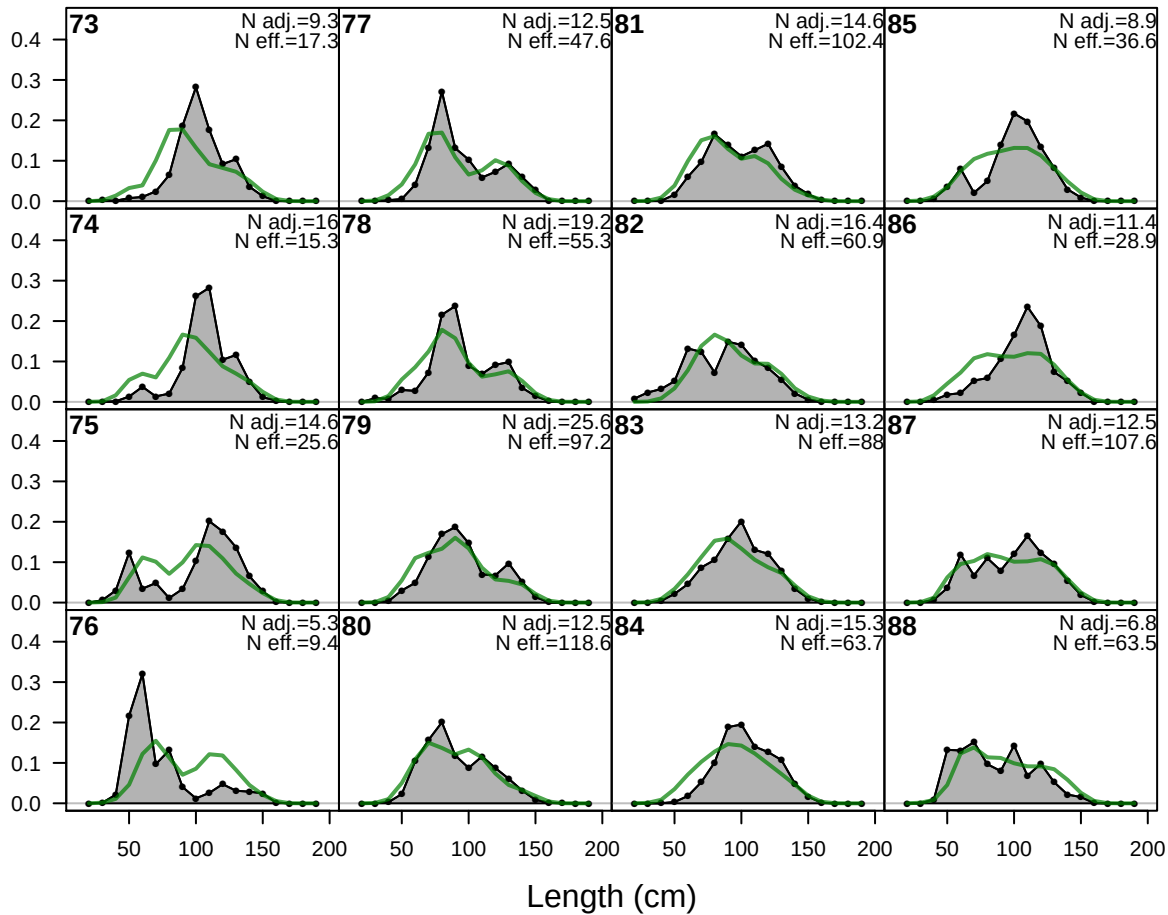


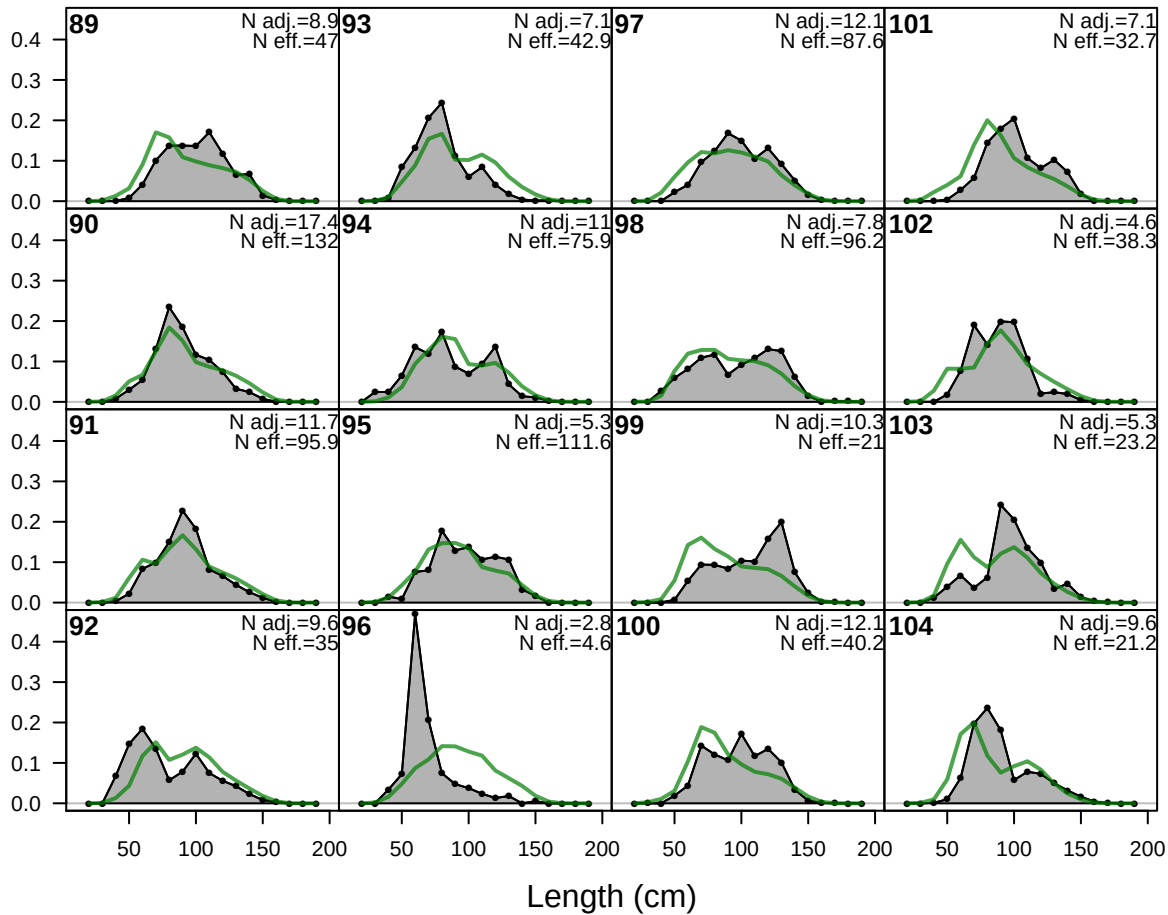


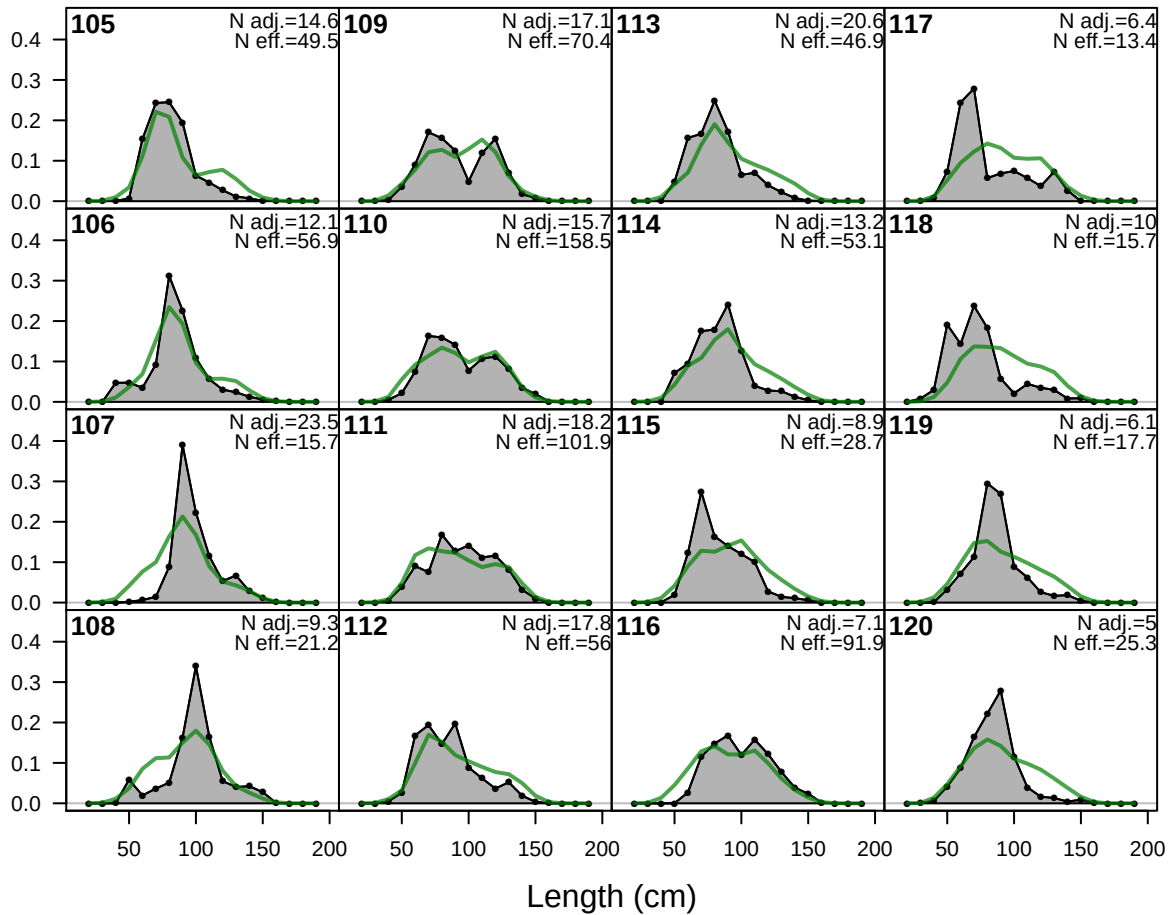


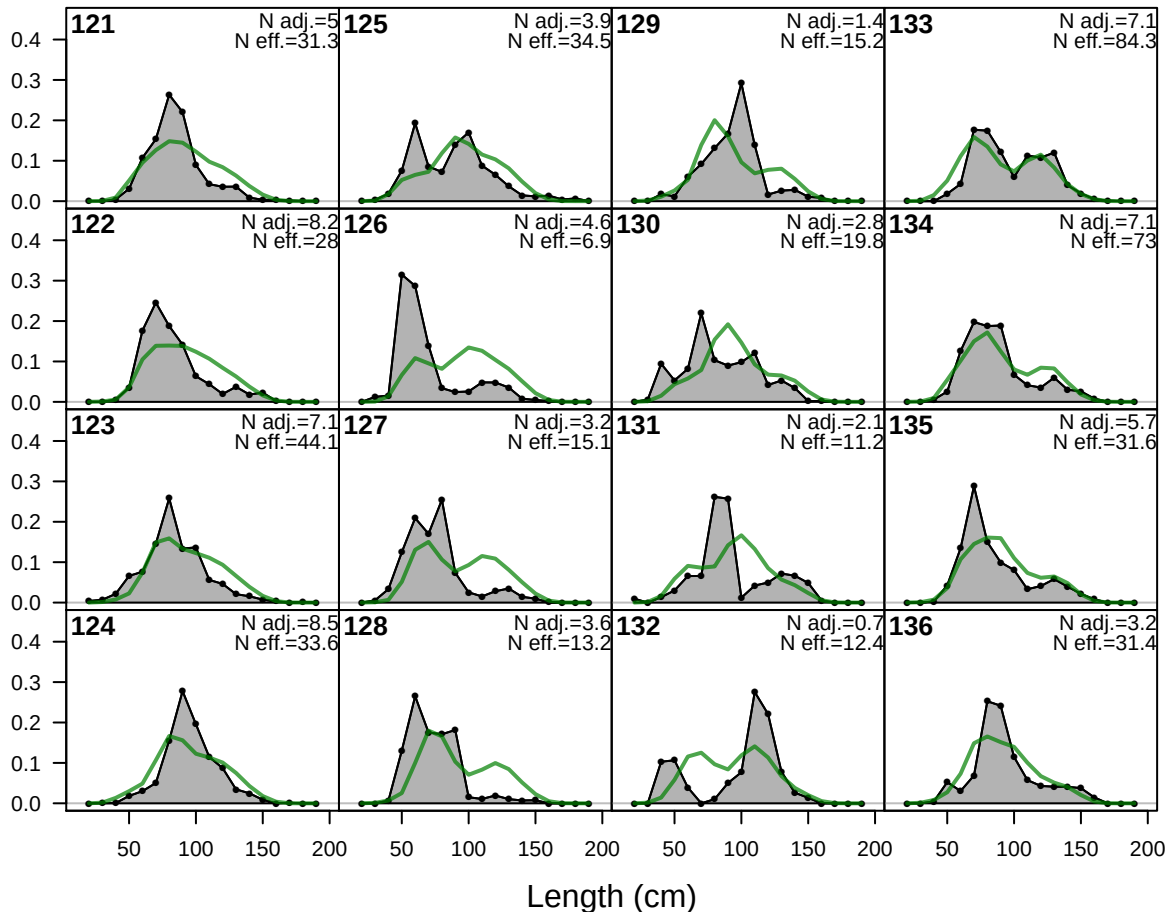




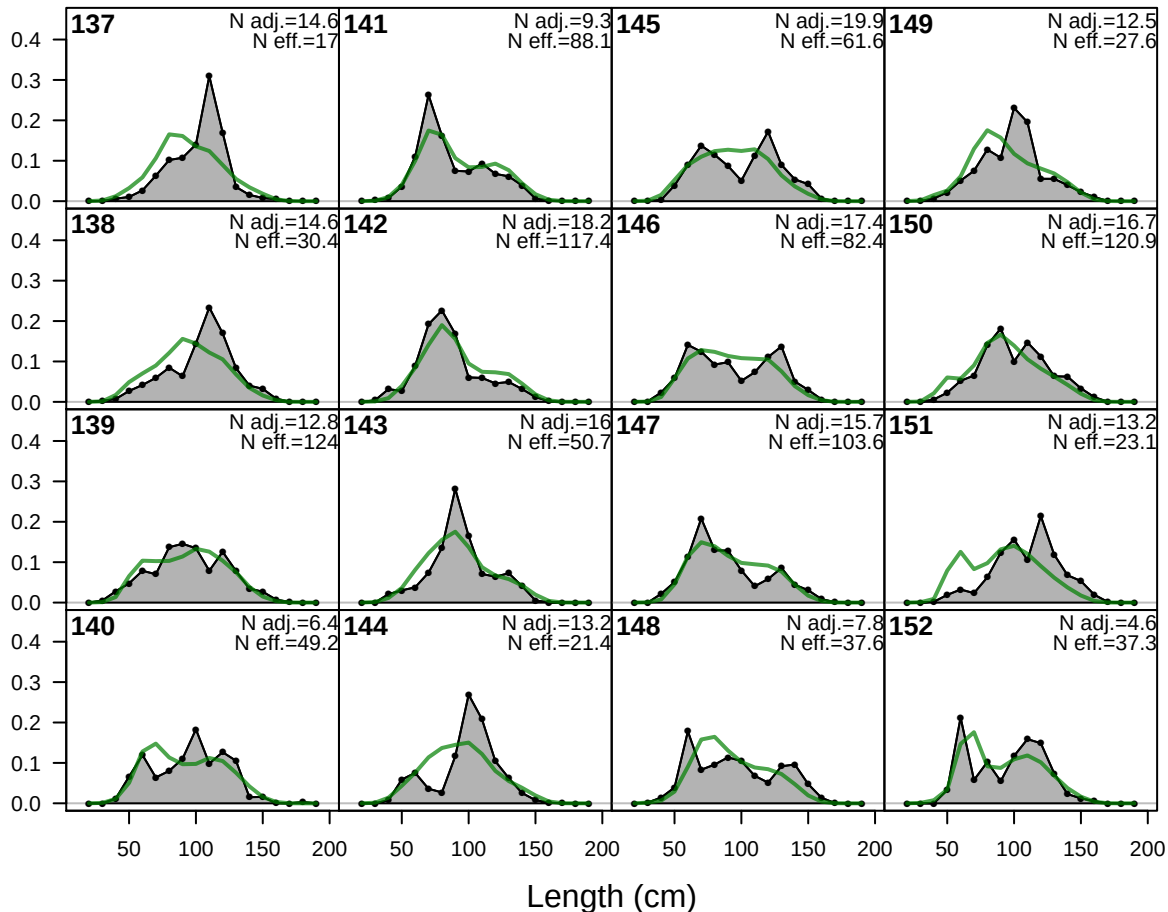


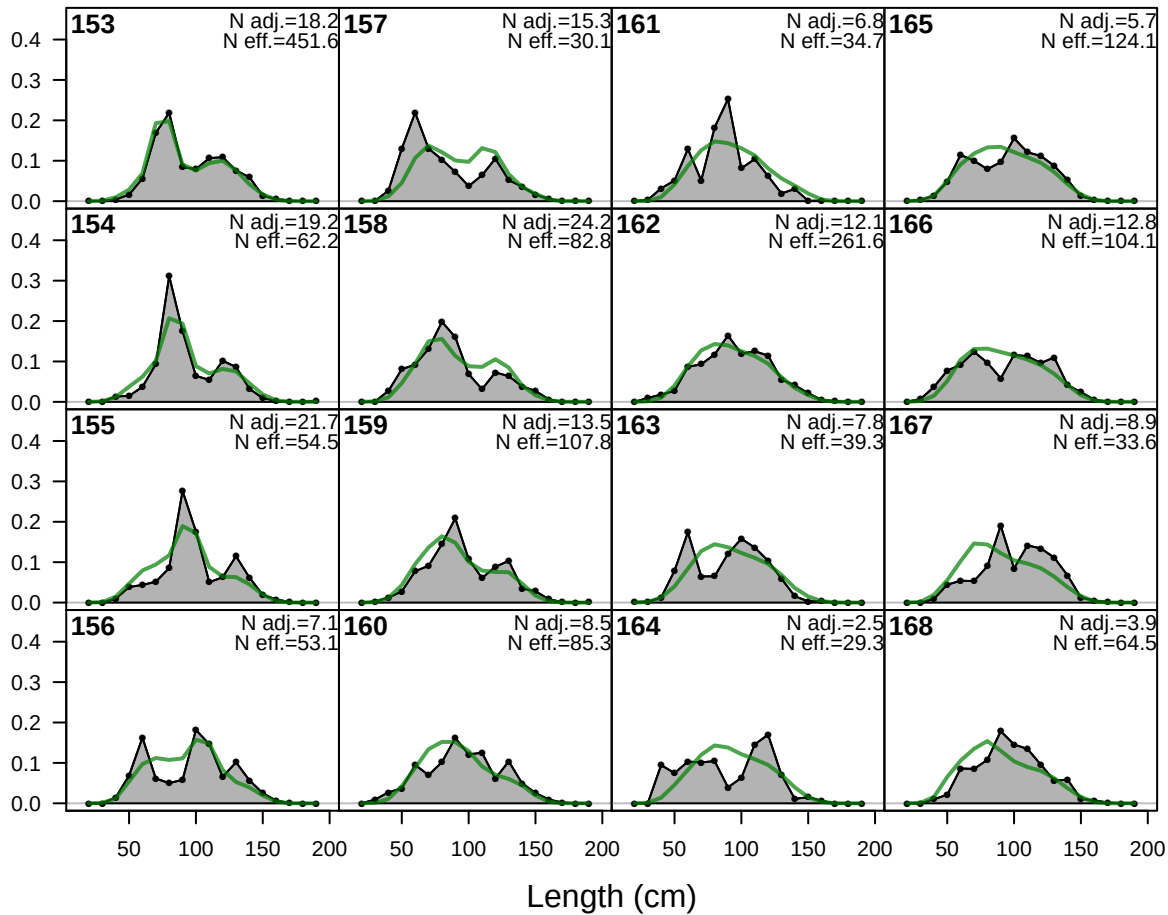


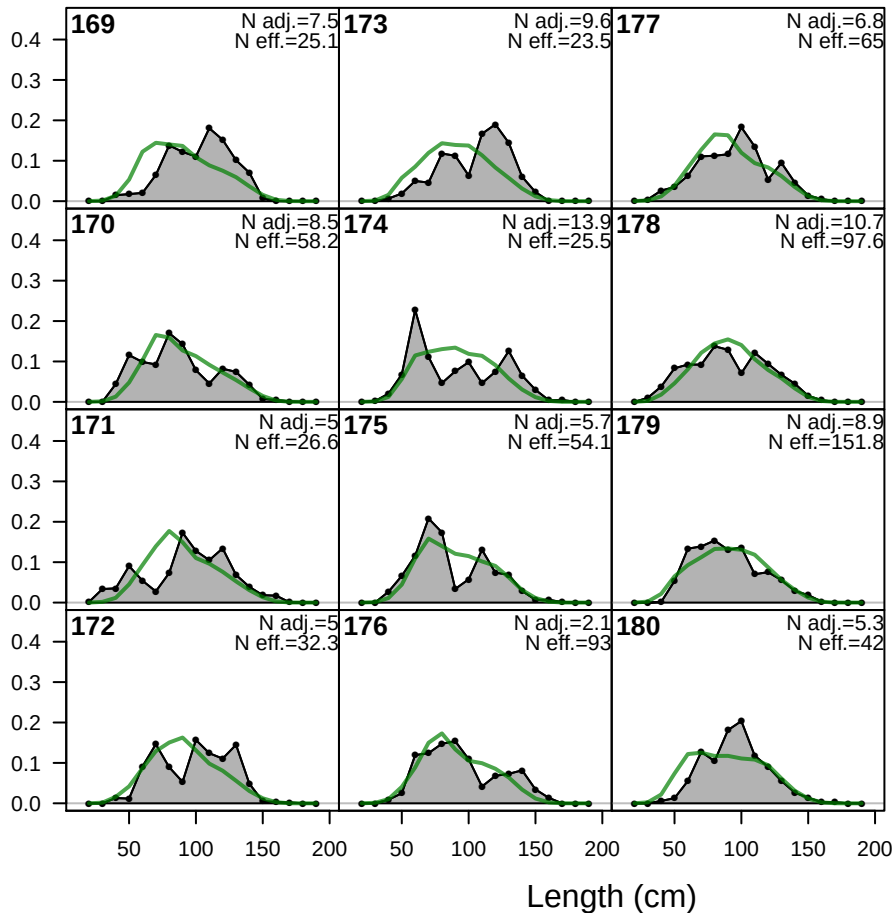


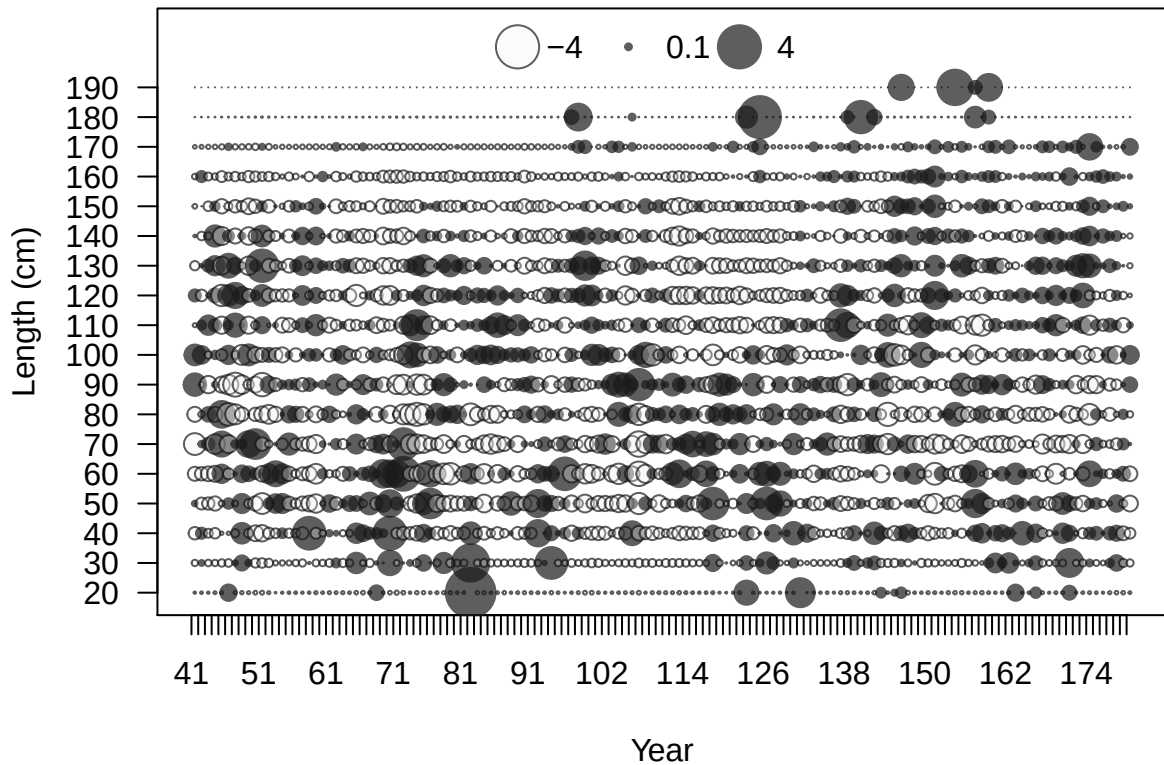




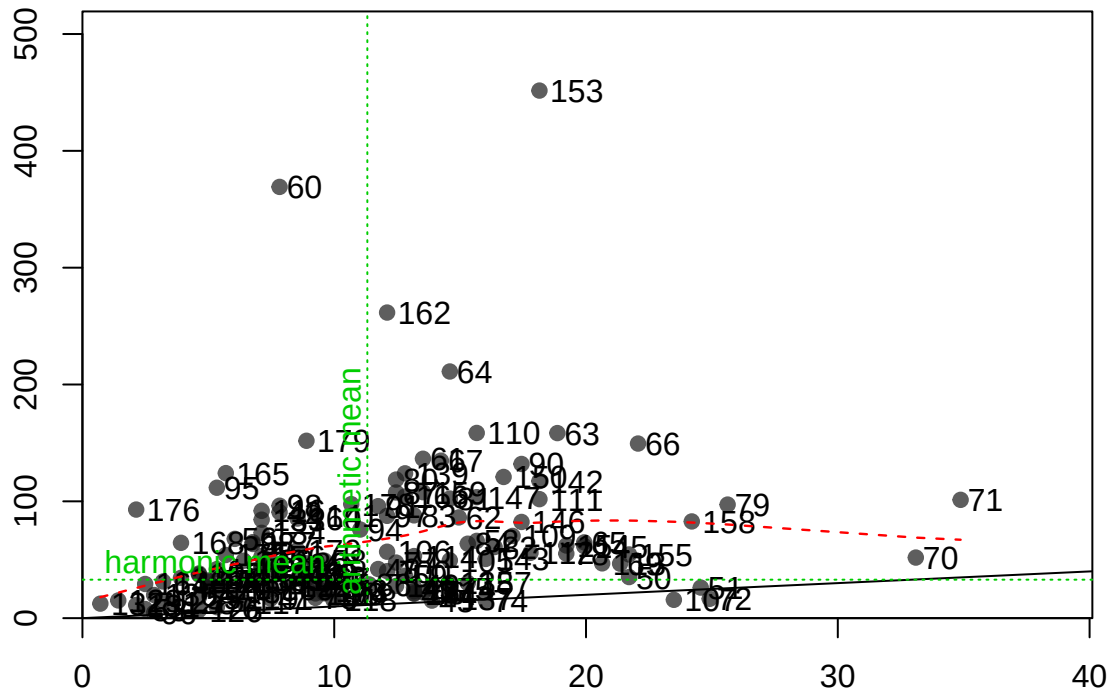






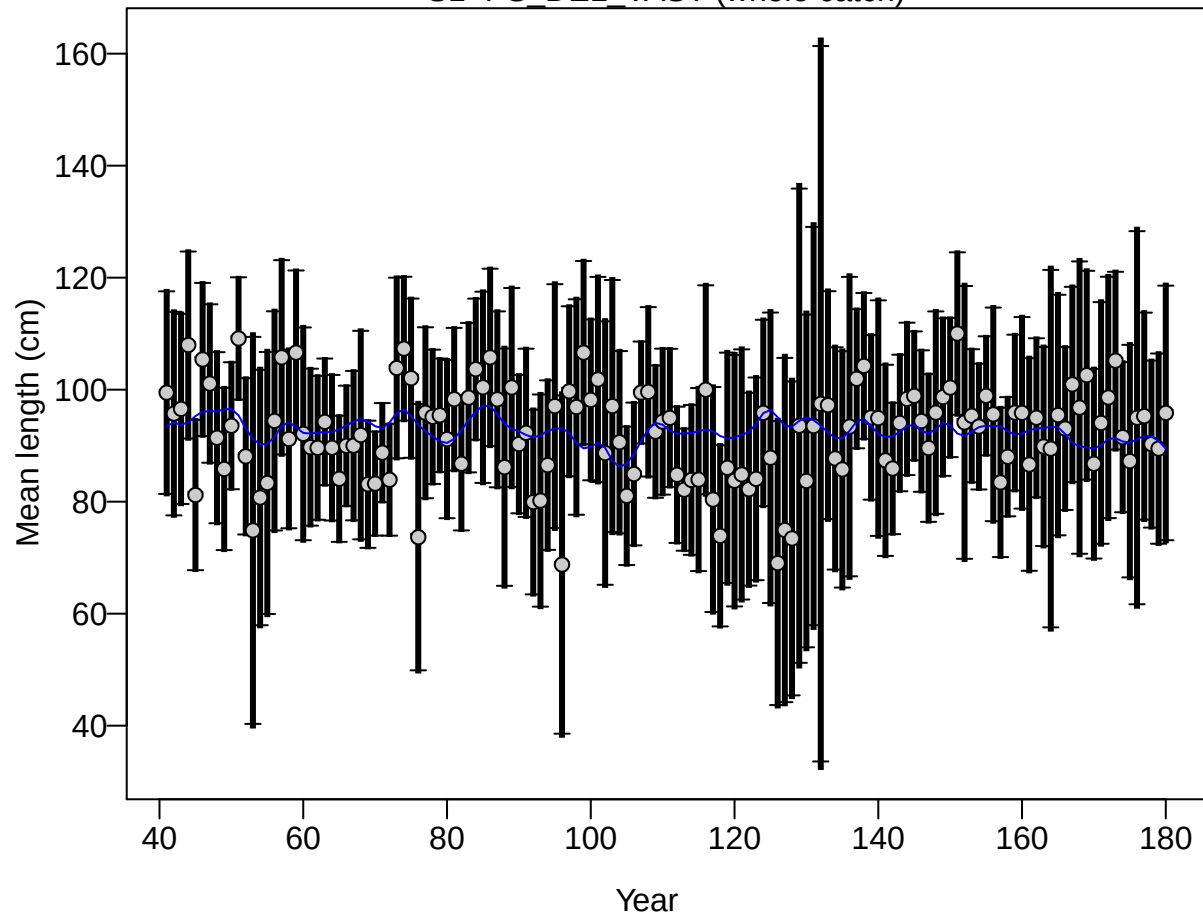


Effective sample size



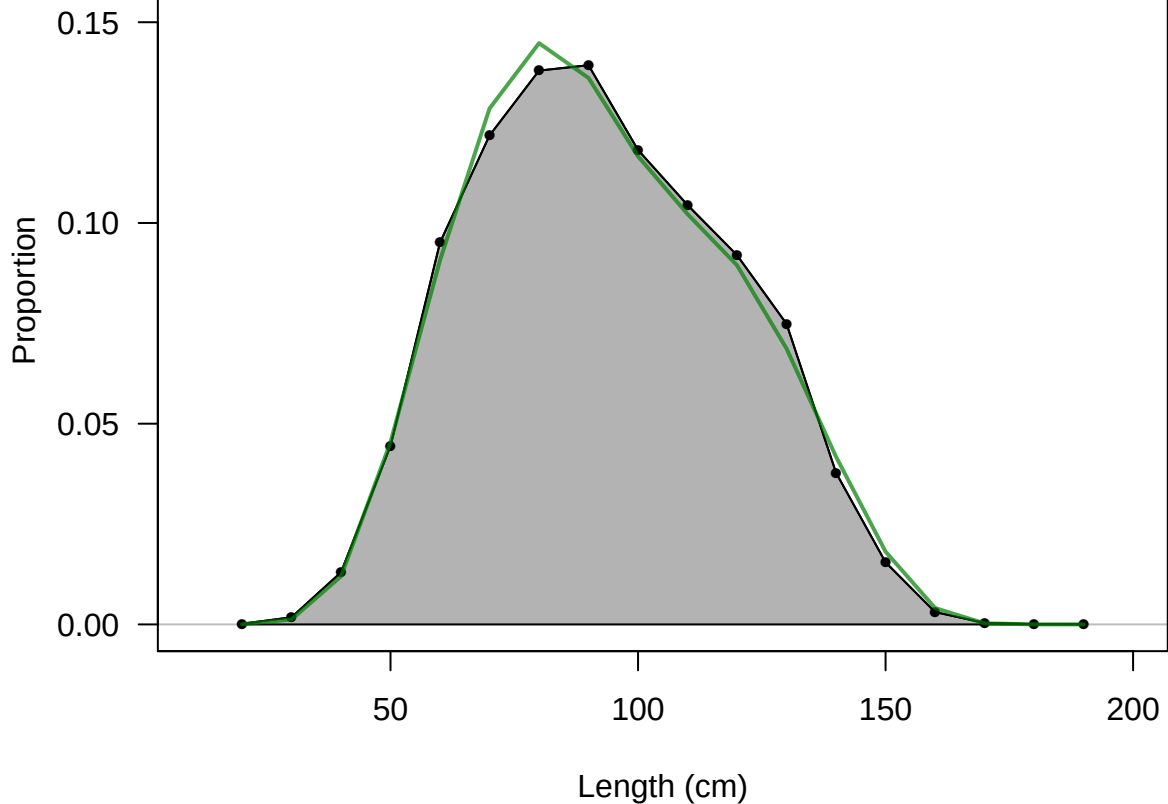
Observed sample size

S1-PS\_DEL\_VAST (whole catch)

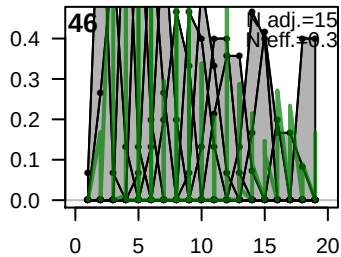


**S1-PS\_DEL\_VAST**

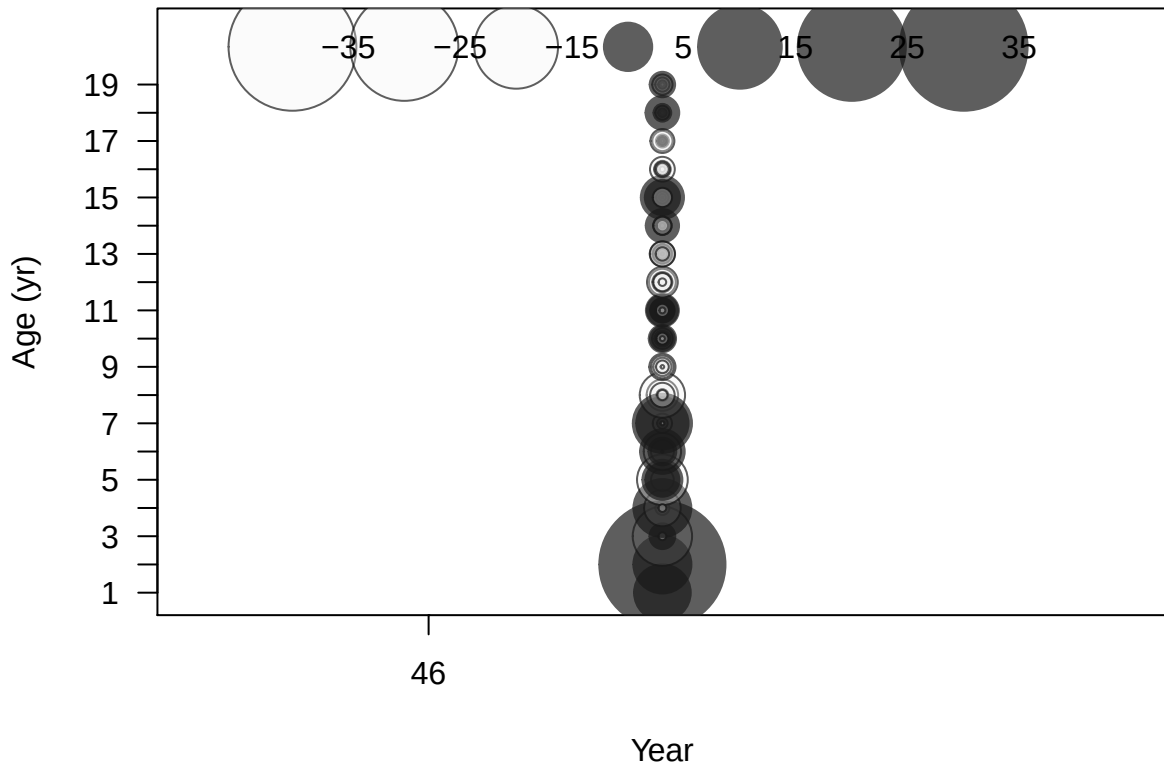
Sum of N adj.=1584.1  
Sum of N eff.=8718.7

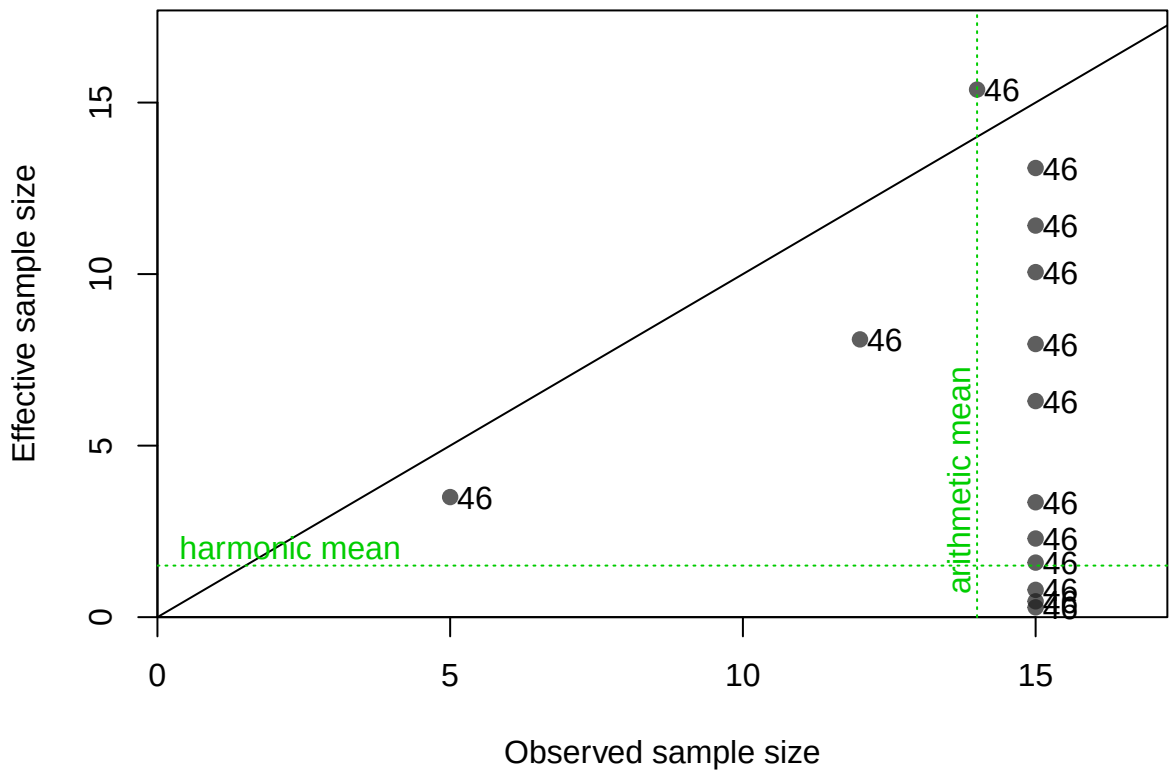


Proportion



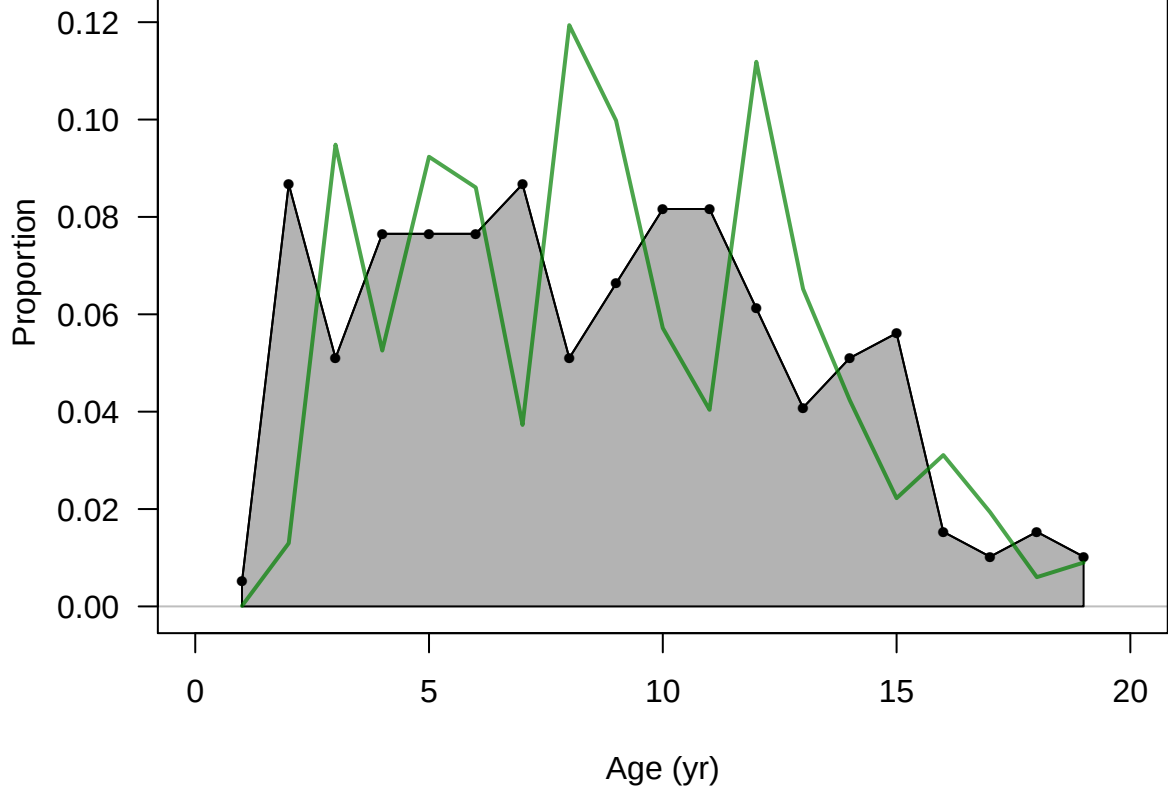






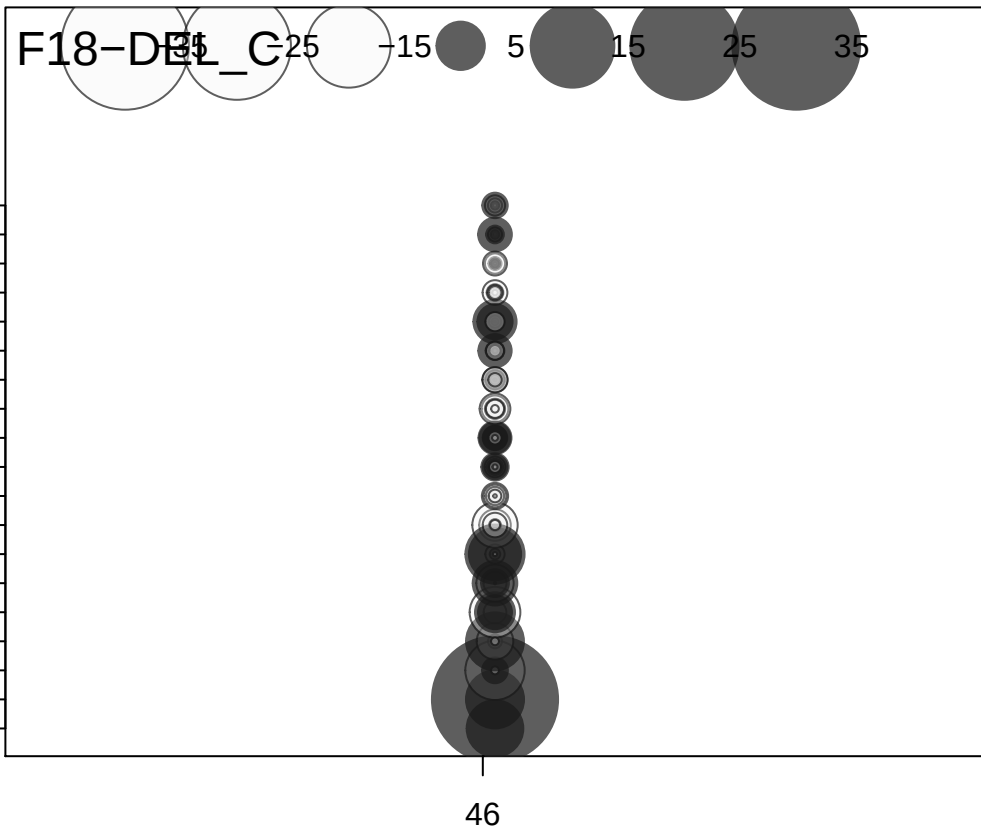
**F18-DEL\_C**

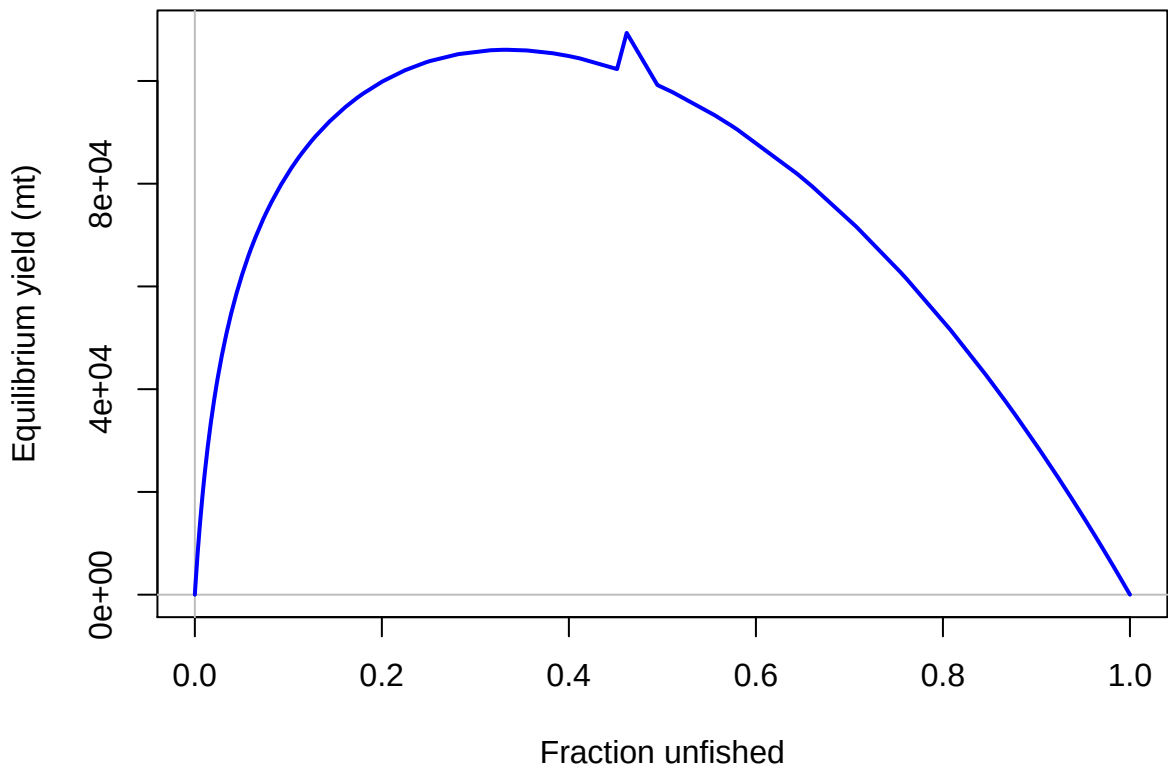
Sum of N adj.=196  
Sum of N eff.=84.6

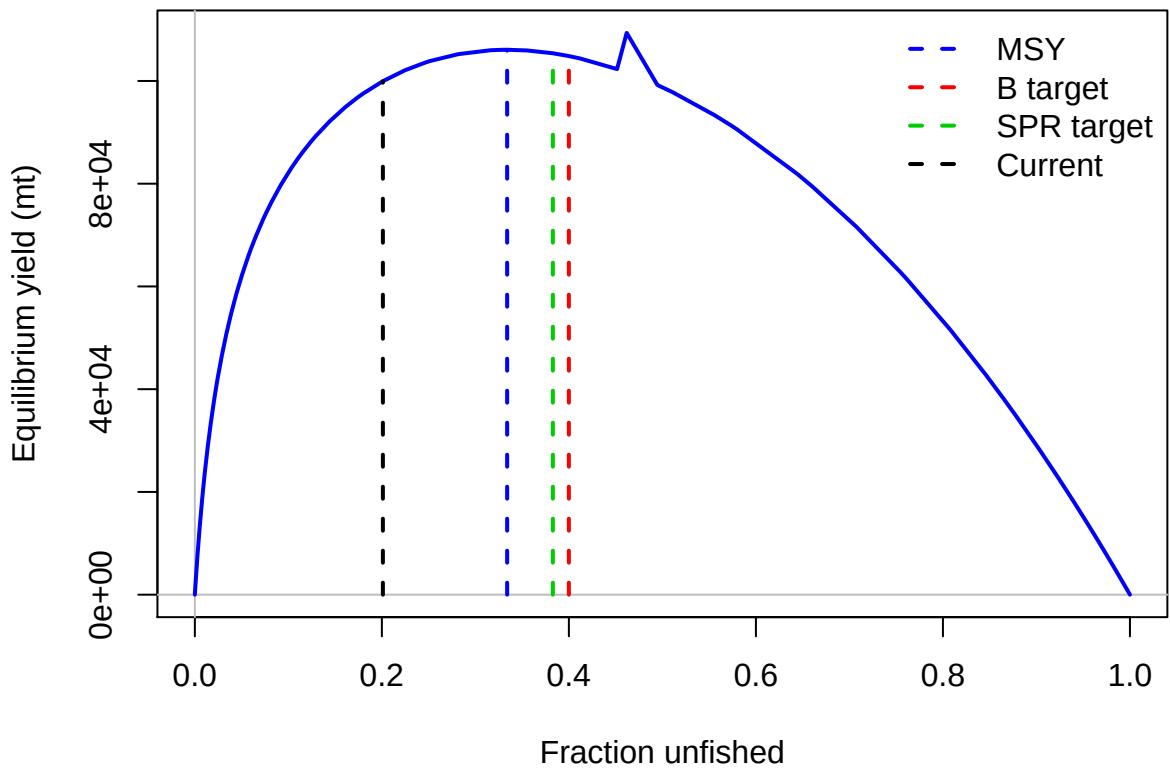


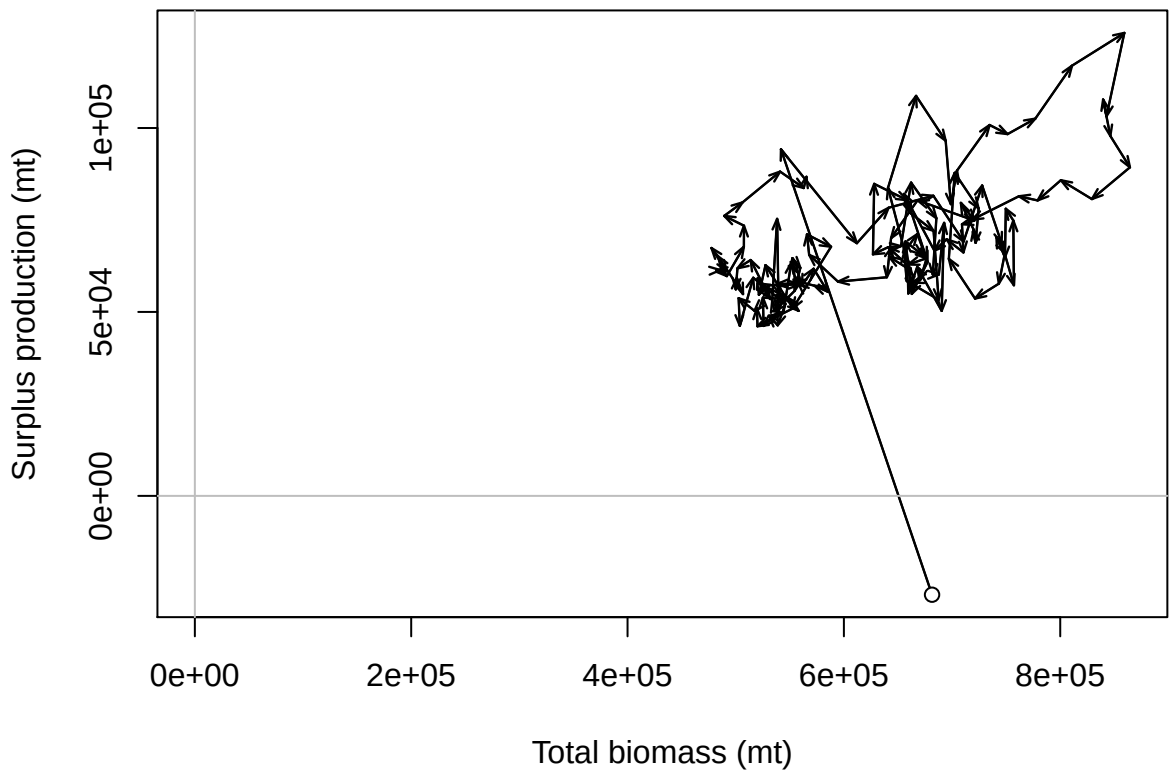
Age (yr)

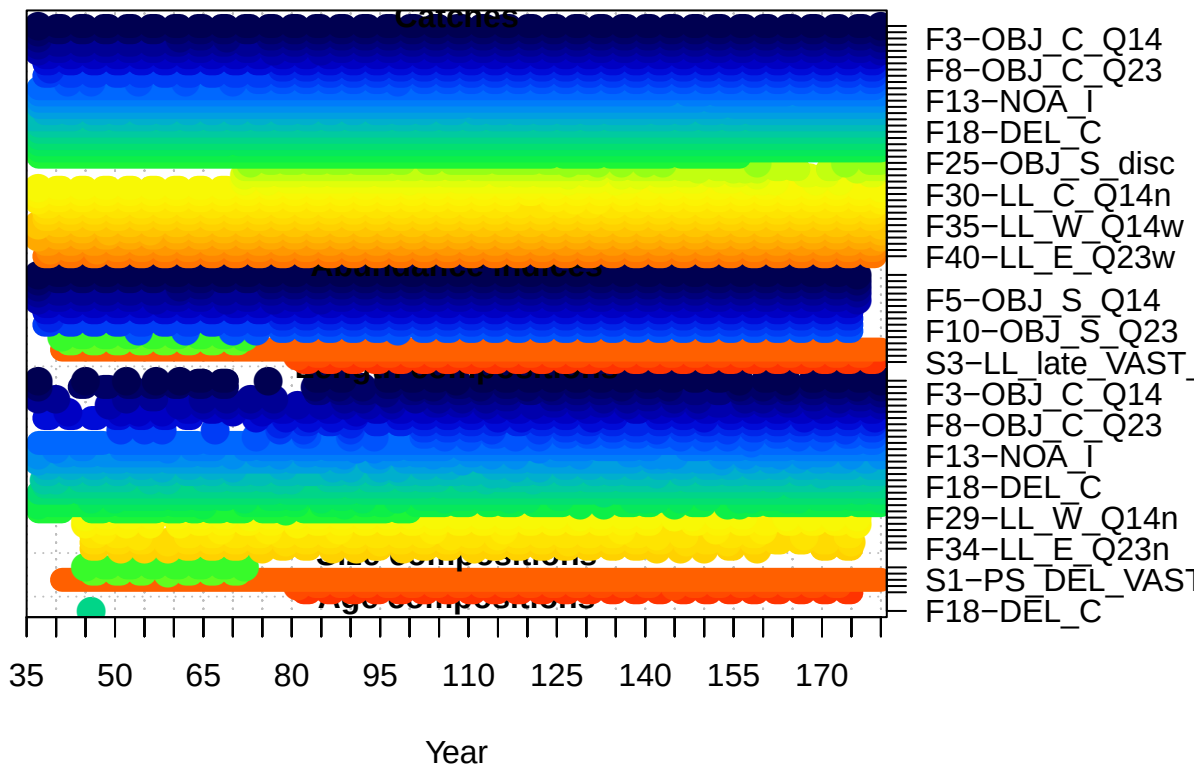
19  
18  
17  
16  
15  
14  
13  
12  
11  
10  
9  
8  
7  
6  
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1



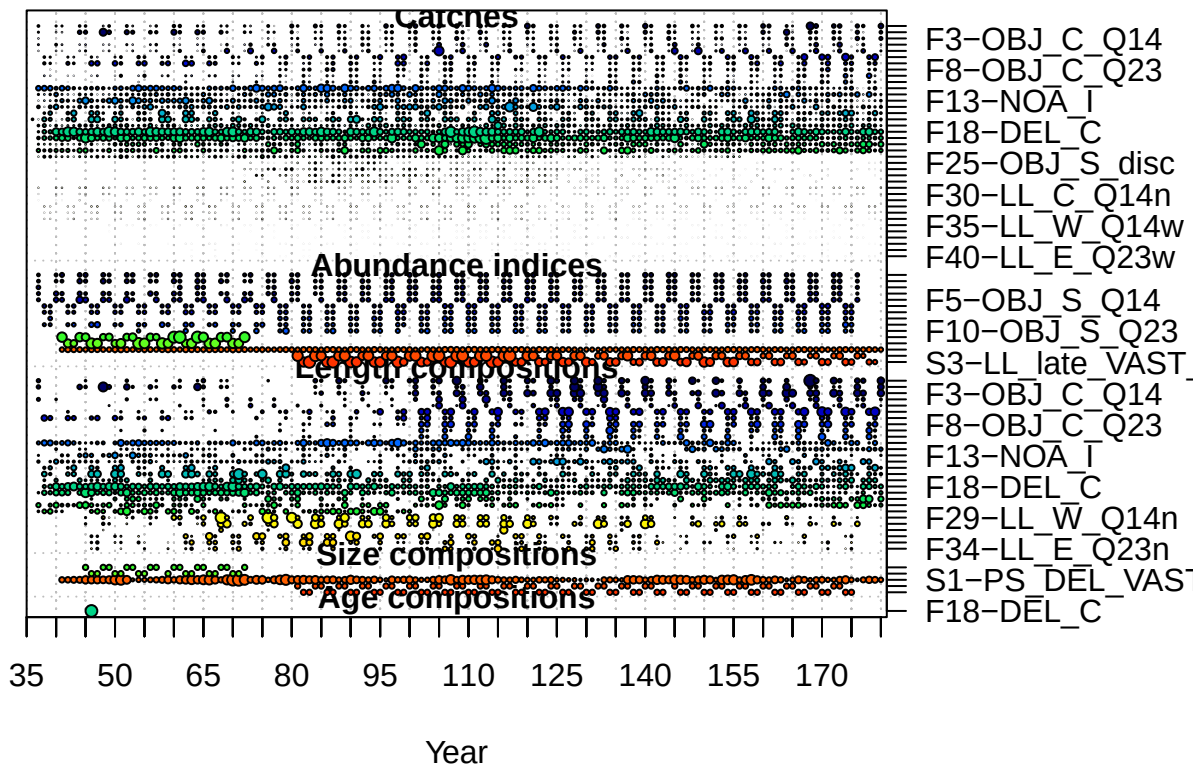




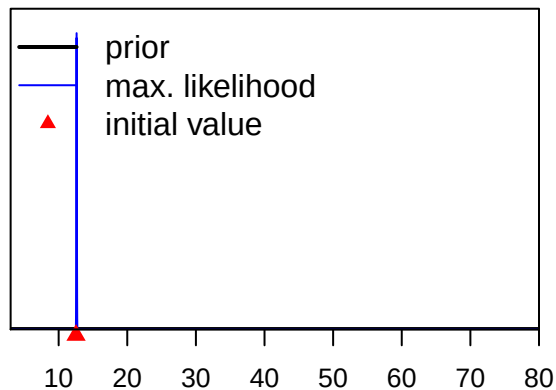




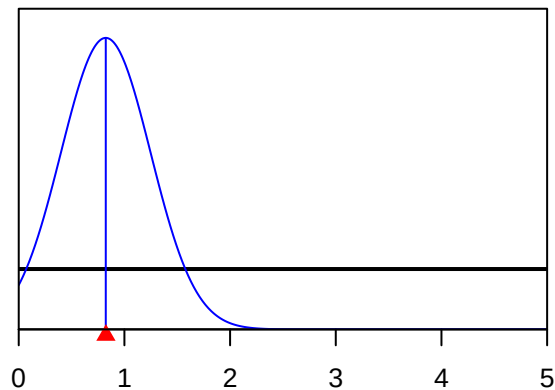




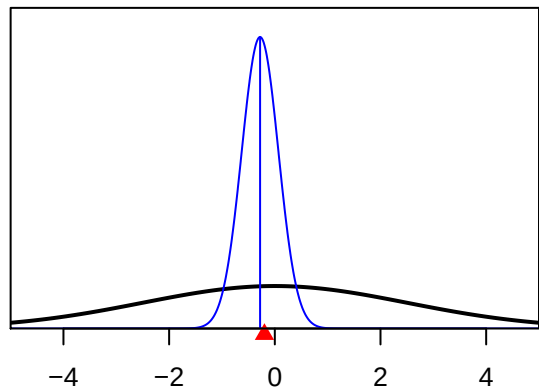
SR\_LN(R0)



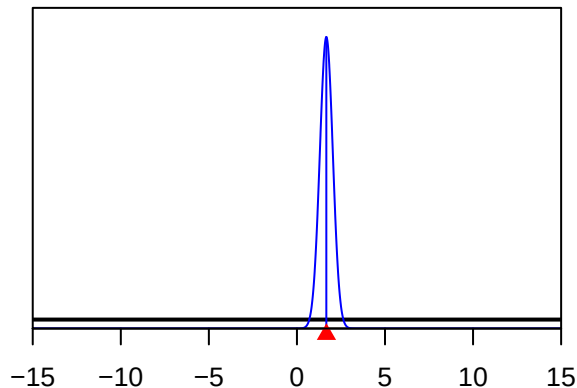
InitF\_seas\_1 flt\_16F16-DEL\_NE



SR\_regime\_BLK1add\_36

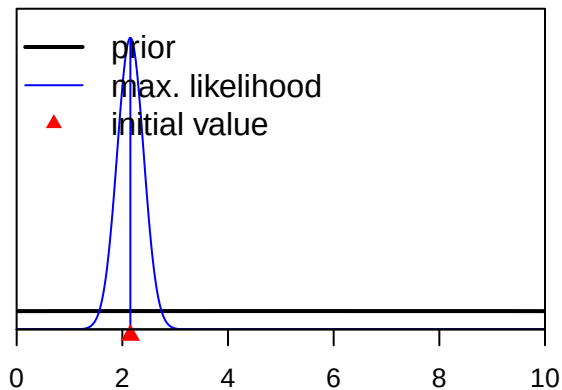


Q\_power\_S1-PS\_DEL\_VAST(41)

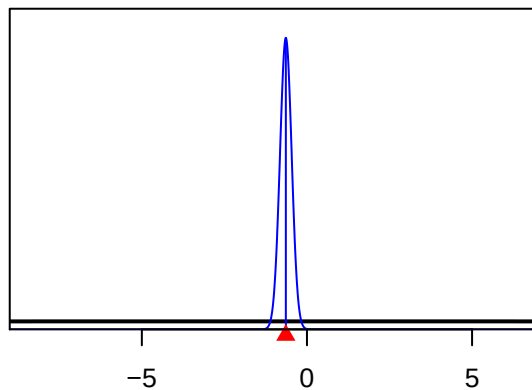


Parameter value

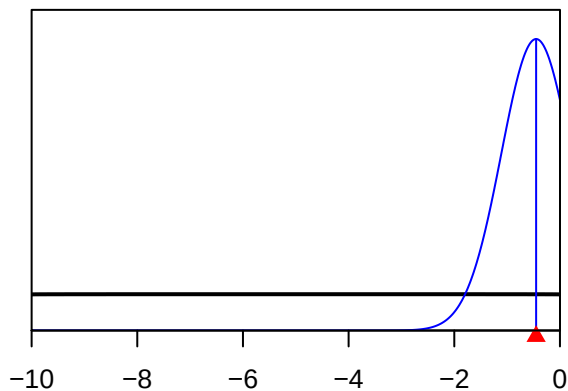
SizeSpline\_GradLo\_F1-OBJ\_N-Q14(1)



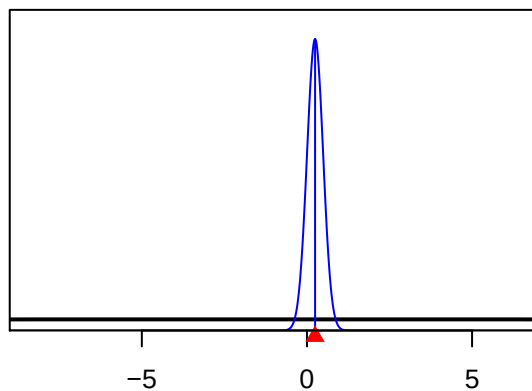
SizeSpline\_Val 2\_F1-OBJ\_N-Q14(1)



SizeSpline\_GradHi\_F1-OBJ\_N-Q14(1)

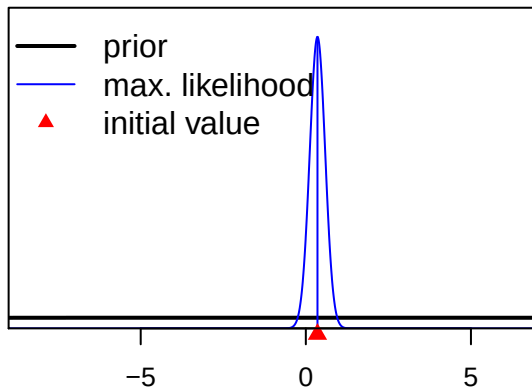


SizeSpline\_Val 4\_F1-OBJ\_N-Q14(1)

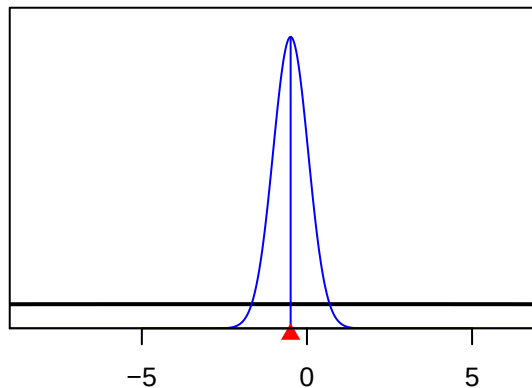


Parameter value

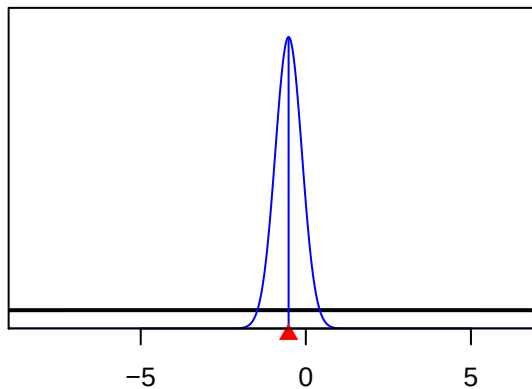
SizeSpline\_Val\_5 F1-OBJ\_N-Q14(1)



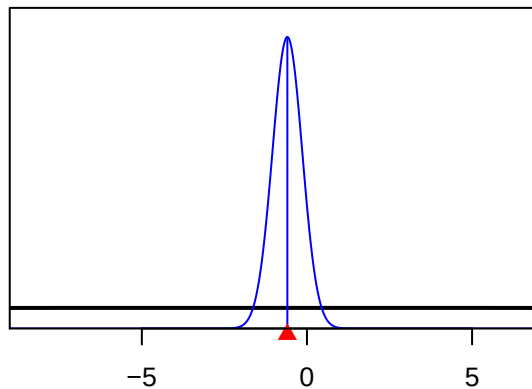
SizeSpline\_Val\_7 F1-OBJ\_N-Q14(1)



SizeSpline\_Val\_6 F1-OBJ\_N-Q14(1)

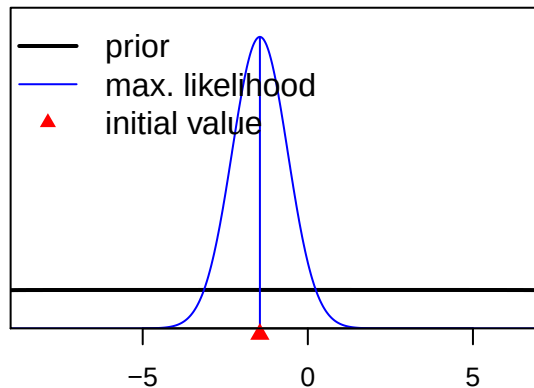


SizeSpline\_Val\_8 F1-OBJ\_N-Q14(1)

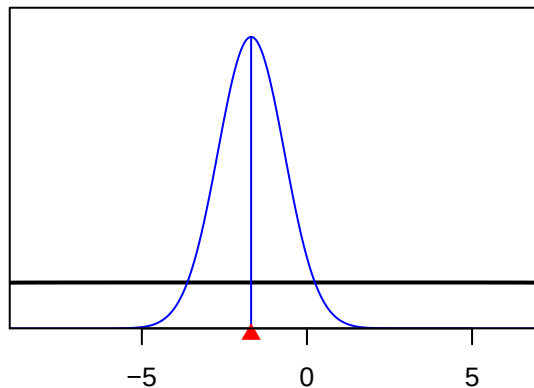


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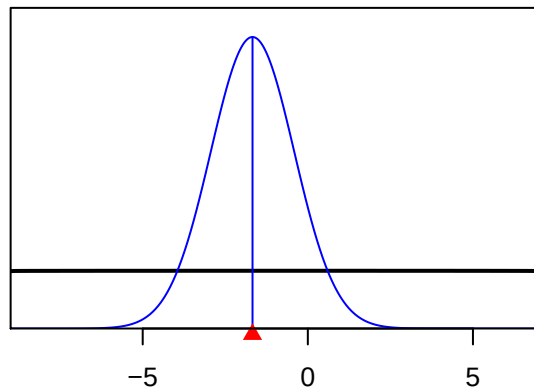
SizeSpline\_Val\_9\_F1-OBJ\_N-Q14(1)



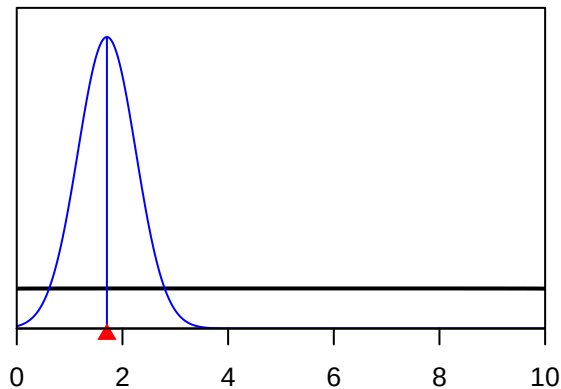
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SizeSpline\_Val\_10\_F1-OBJ\_N-Q14(1)

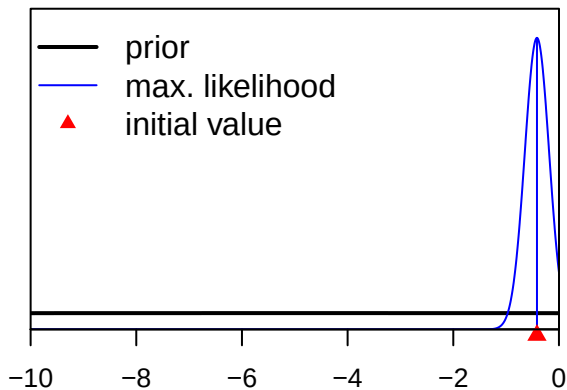


SizeSpline\_GradLo\_F2-OBJ\_Nc\_Q14(2)

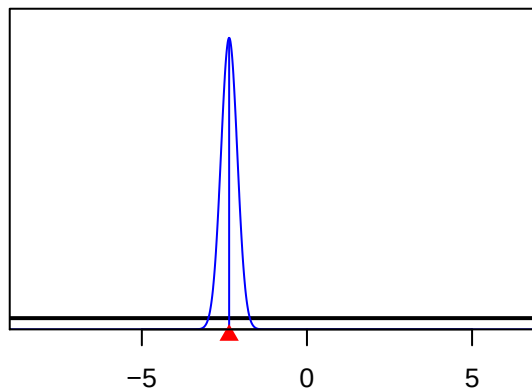


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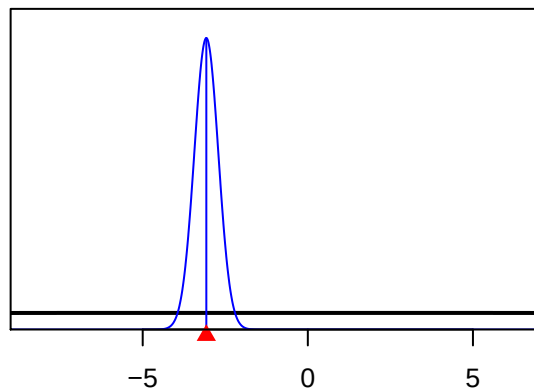
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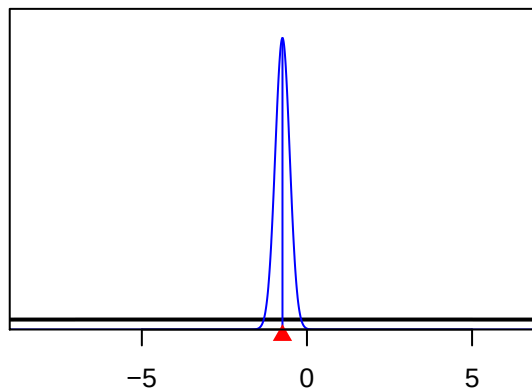
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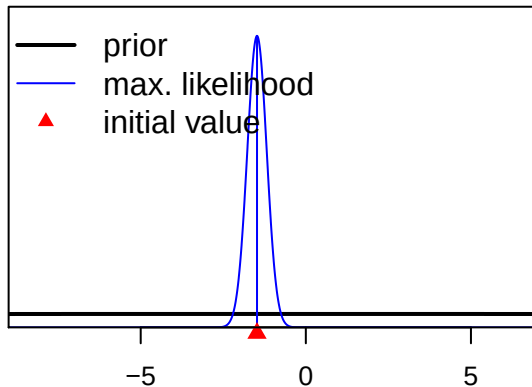


SizeSpline\_Val\_5\_F2-OBJ\_Nc\_Q14(2)

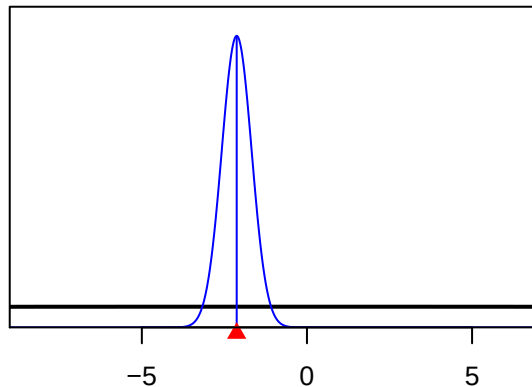


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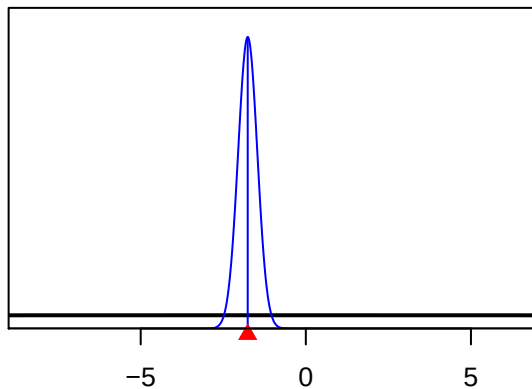
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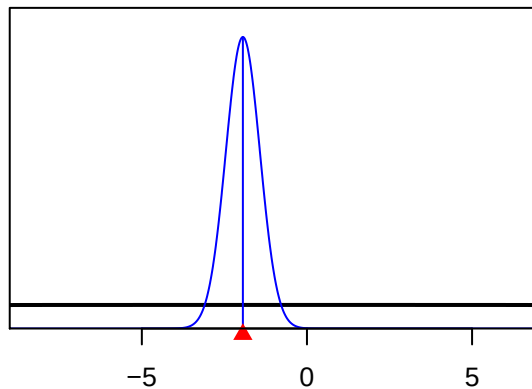
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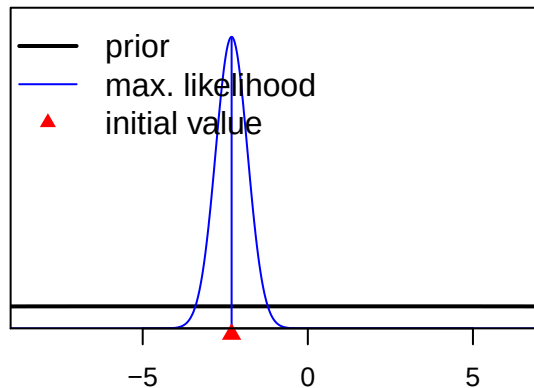


SizeSpline\_Val\_9\_F2-OBJ\_Nc\_Q14(2)

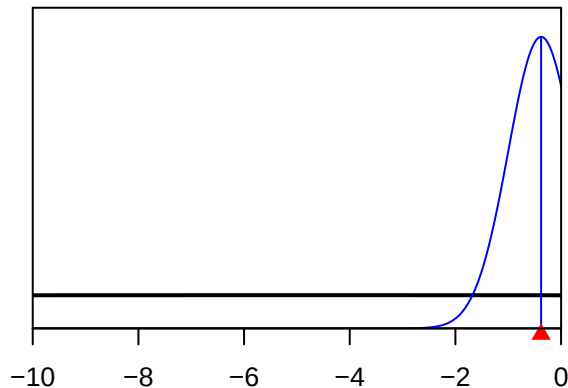


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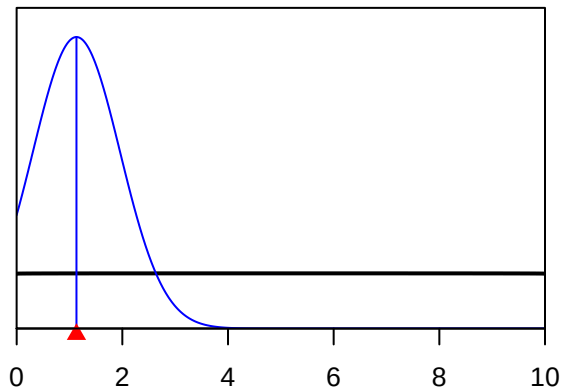
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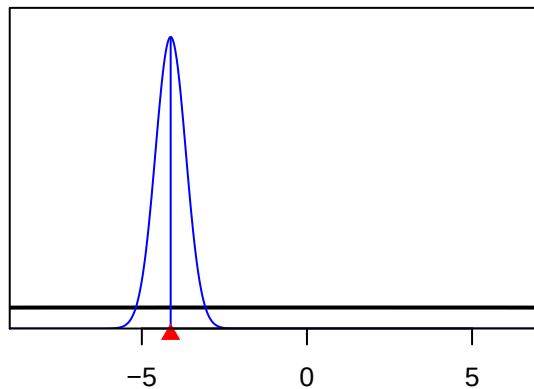
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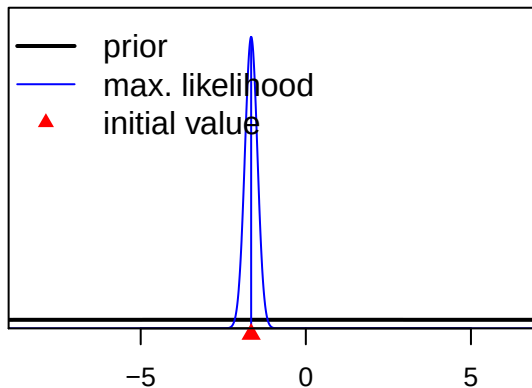
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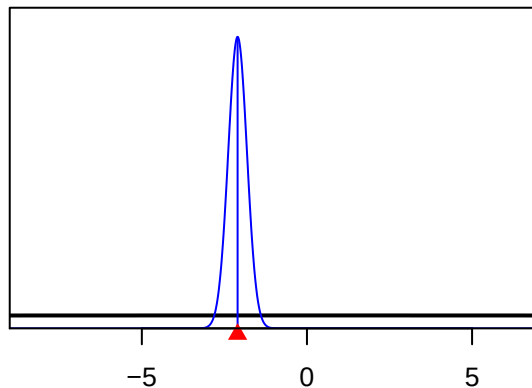
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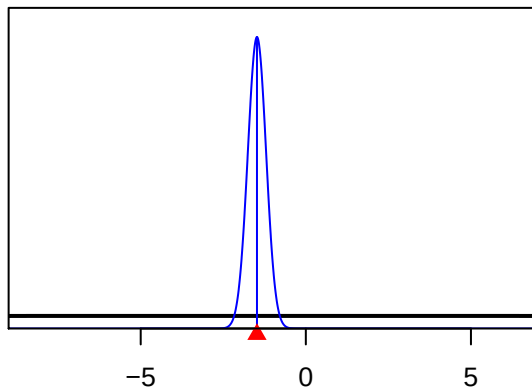
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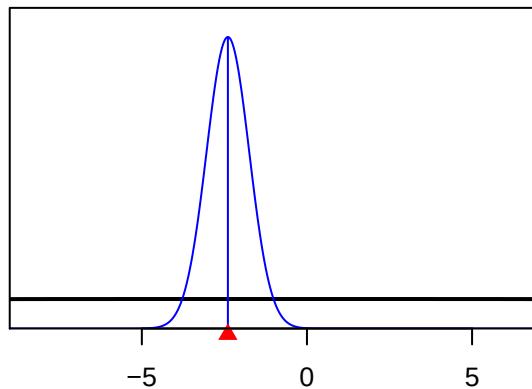
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SizeSpline\_Val\_5\_F3-OBJ\_C\_Q14(3)

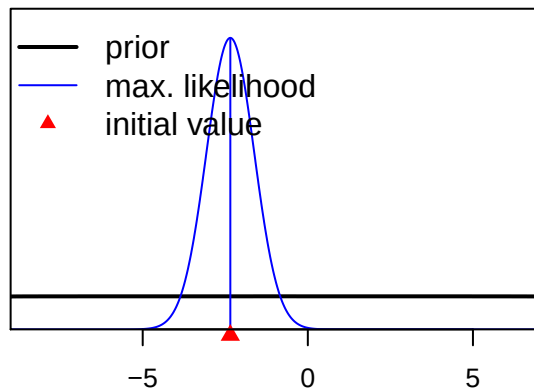


SizeSpline\_Val\_7\_F3-OBJ\_C\_Q14(3)

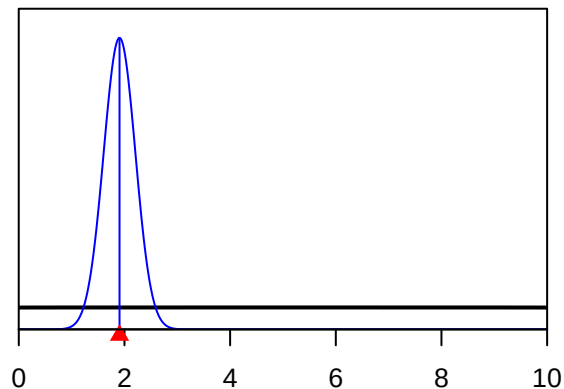


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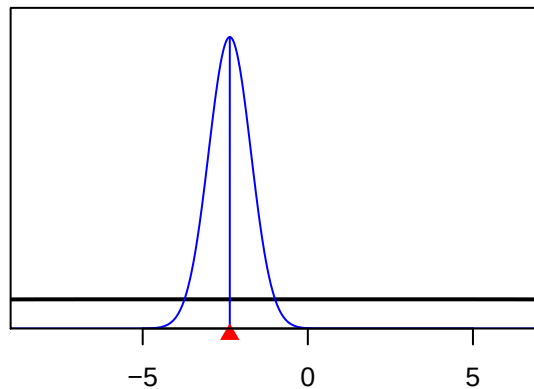
SizeSpline\_Val\_8\_F3-OBJ\_C\_Q14(3)



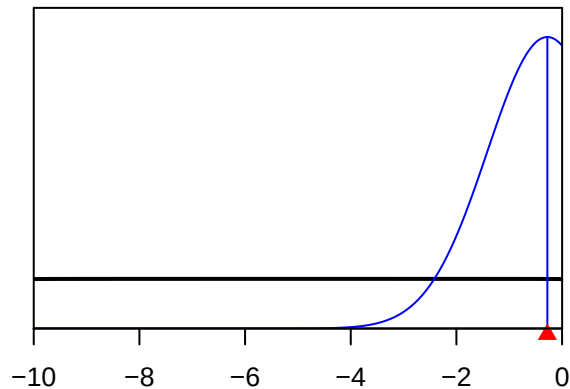
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SizeSpline\_Val\_9\_F3-OBJ\_C\_Q14(3)

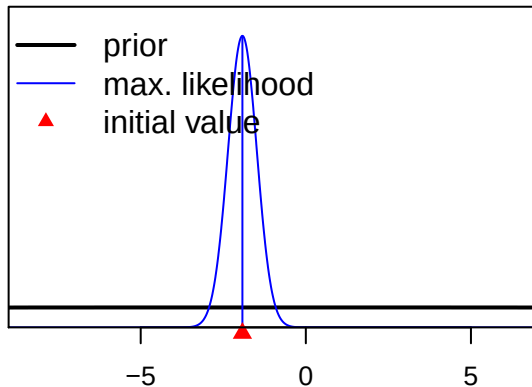


SizeSpline\_GradHi\_F4-OBJ\_Cc\_Q14(4)

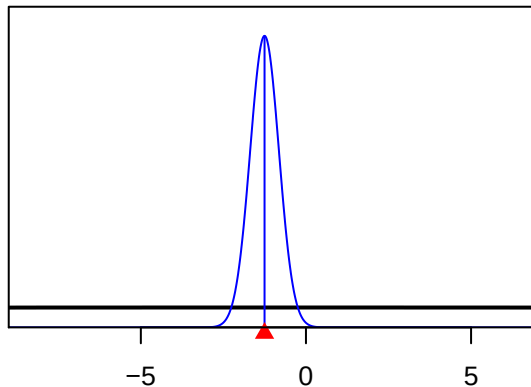


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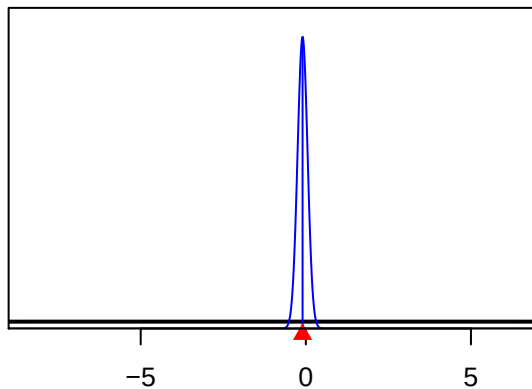
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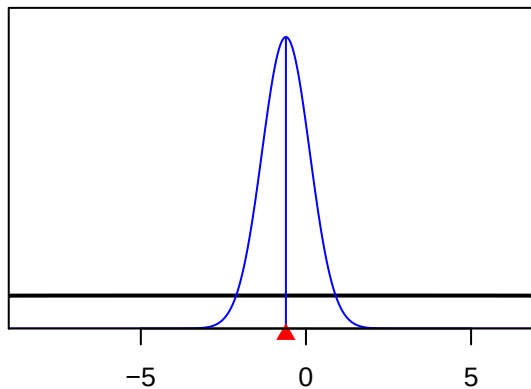
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SizeSpline\_Val\_4\_F4-OBJ\_Cc\_Q14(4)

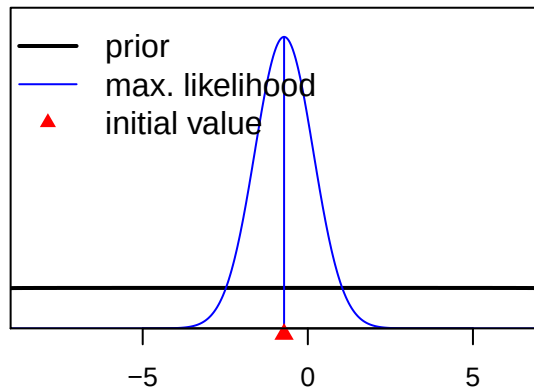


SizeSpline\_Val\_6\_F4-OBJ\_Cc\_Q14(4)

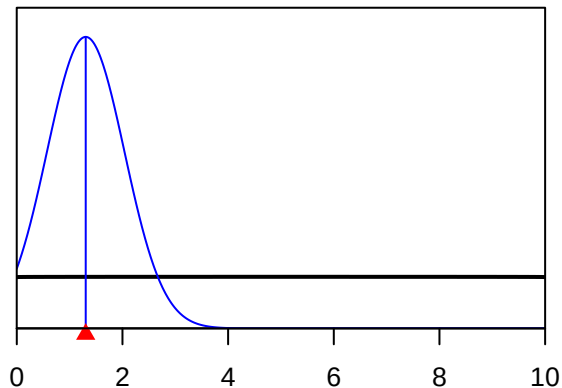


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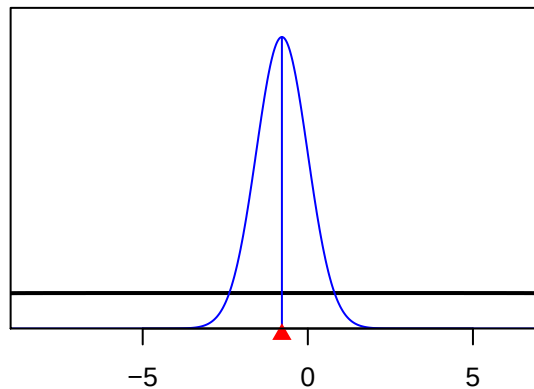
SizeSpline\_Val\_7\_F4-OBJ\_Cc\_Q14(4)



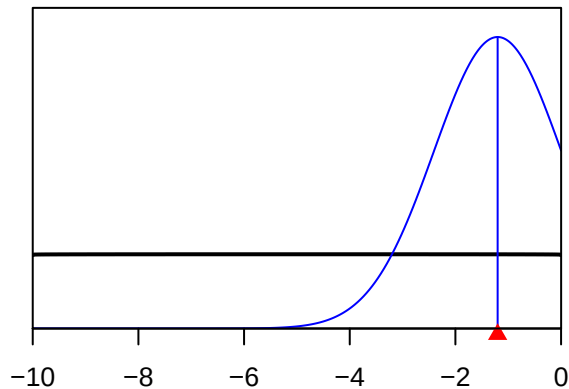
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SizeSpline\_Val\_8\_F4-OBJ\_Cc\_Q14(4)

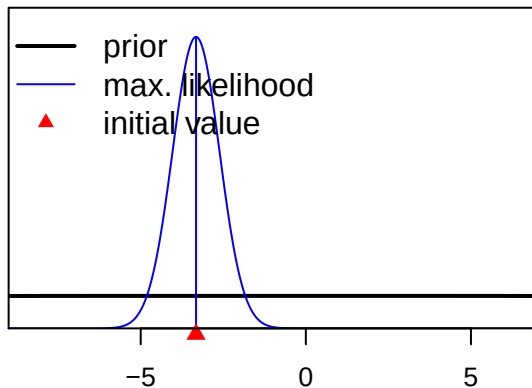


SizeSpline\_GradHi\_F5-OBJ\_S\_Q14(5)

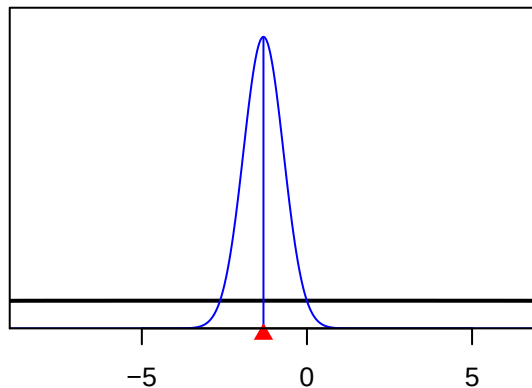


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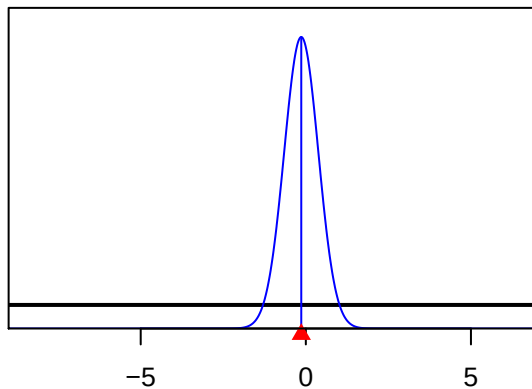
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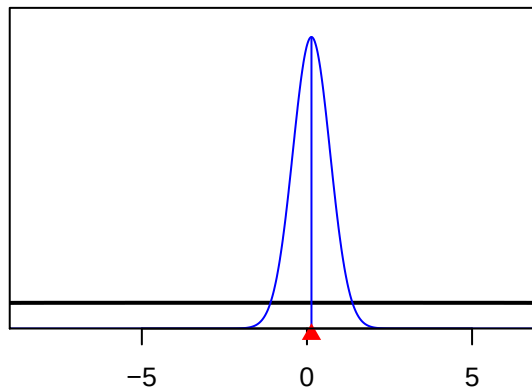
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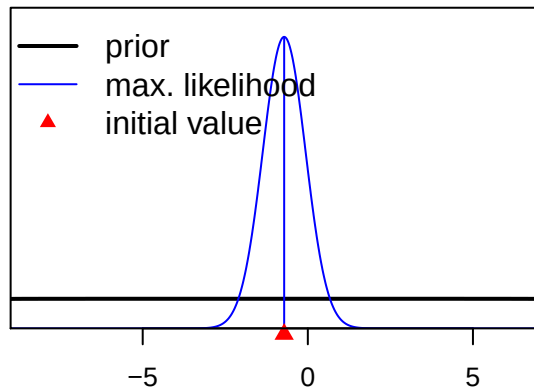


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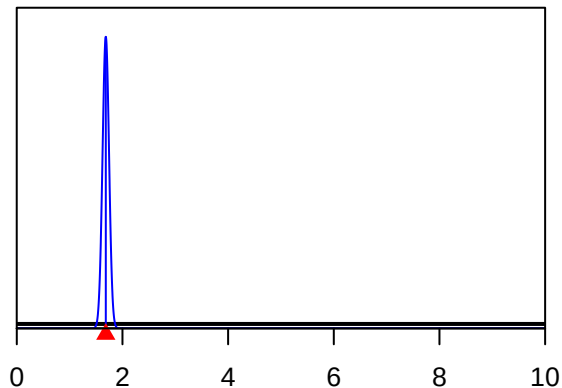


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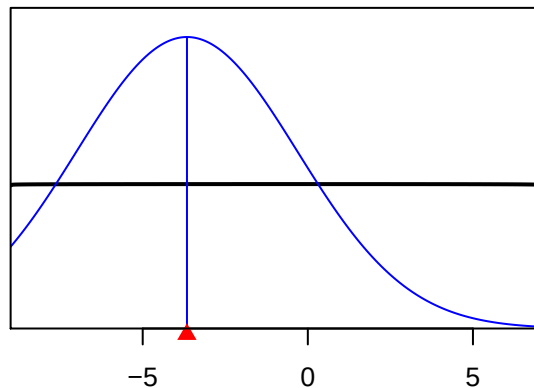
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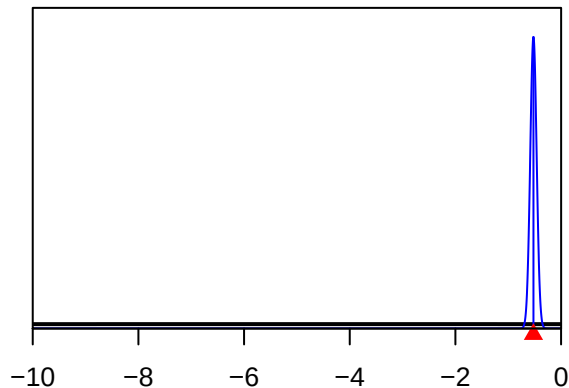
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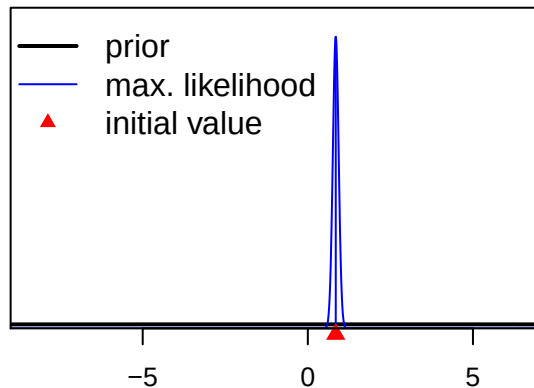


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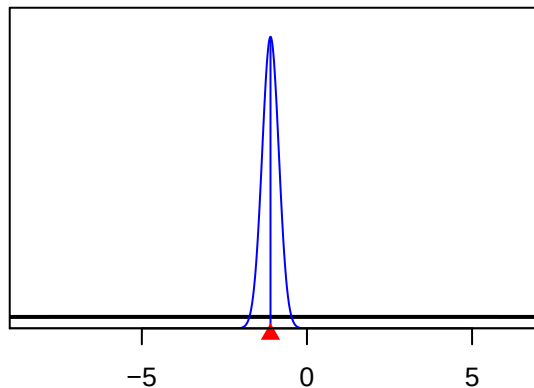


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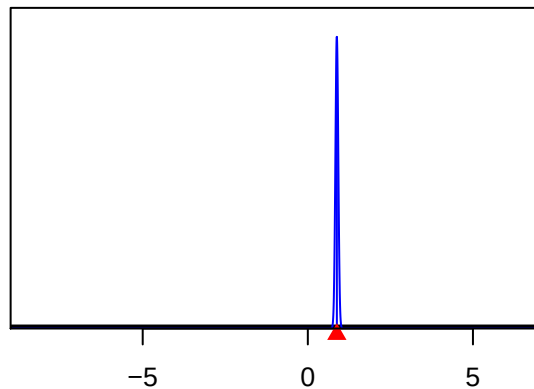
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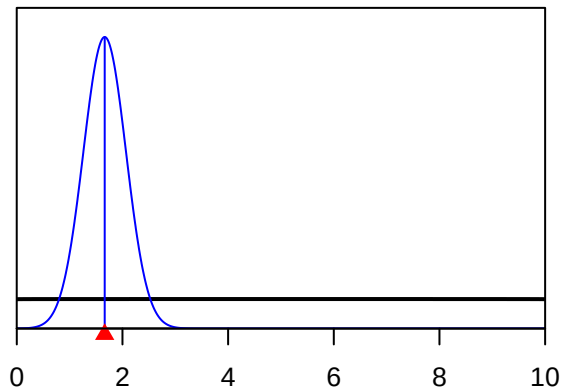
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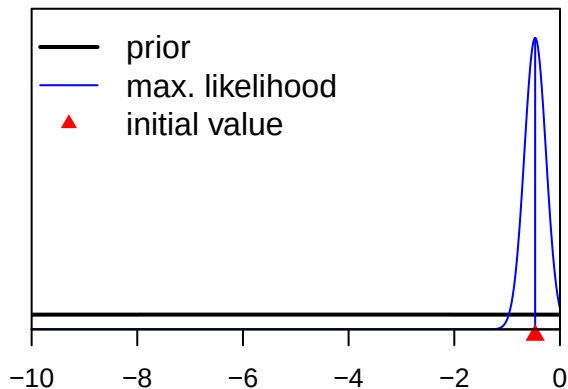


SizeSpline\_GradLo\_F7-OBJ\_Nc\_Q23(7)

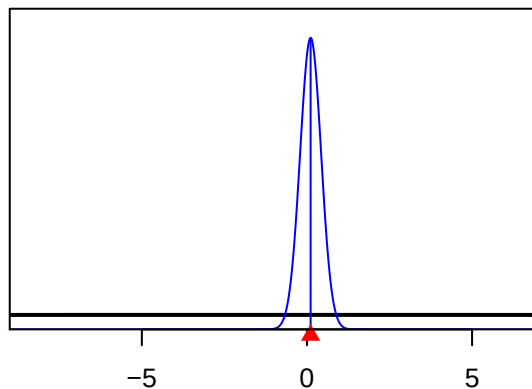


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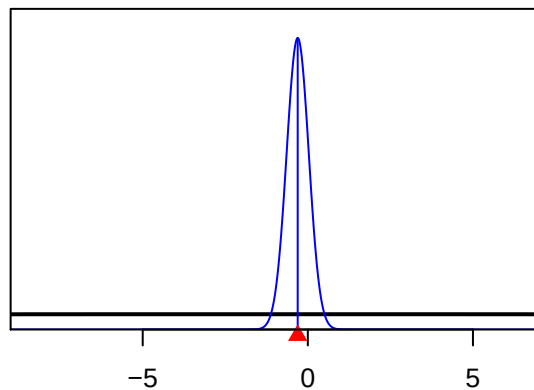
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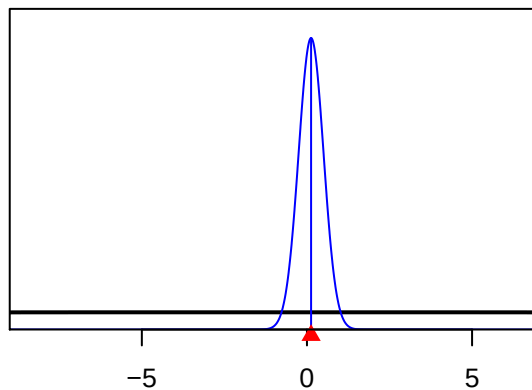
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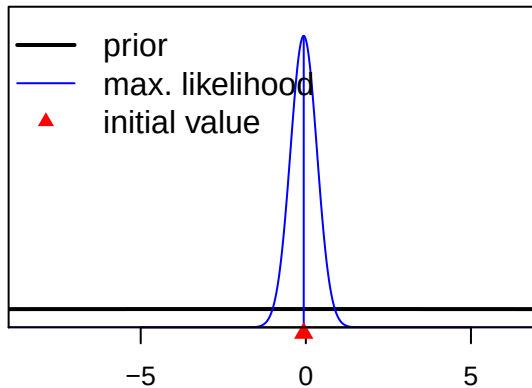
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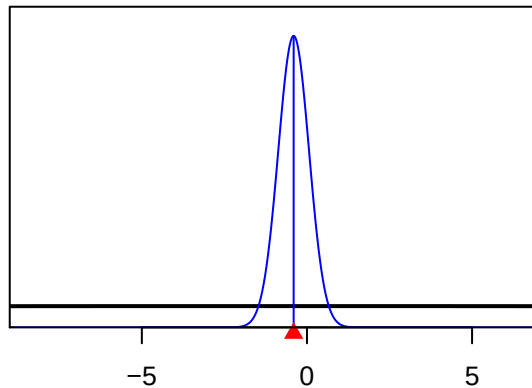
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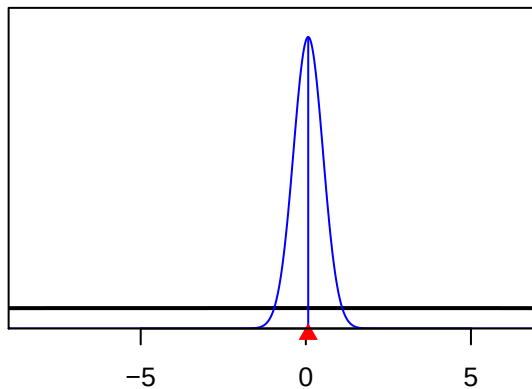
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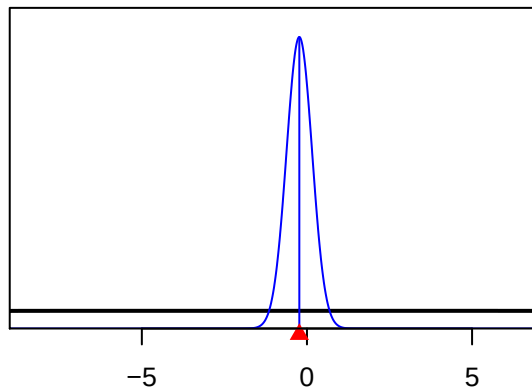
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SizeSpline\_Val\_7\_F7-OBJ\_Nc\_Q23(7)

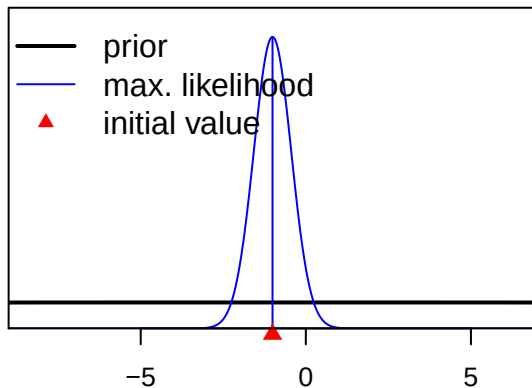


SizeSpline\_Val\_9\_F7-OBJ\_Nc\_Q23(7)

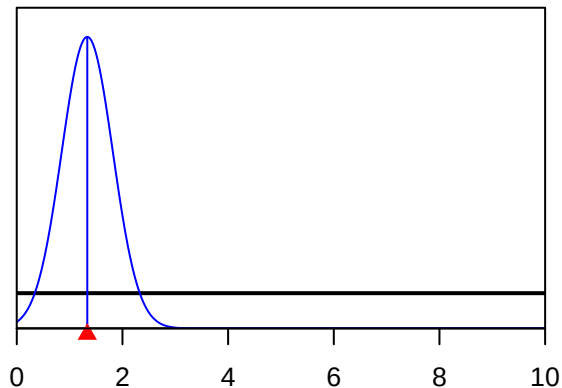


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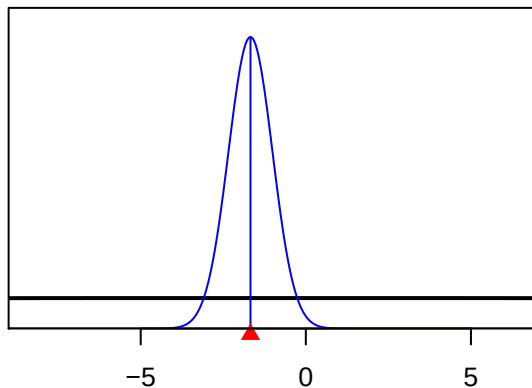
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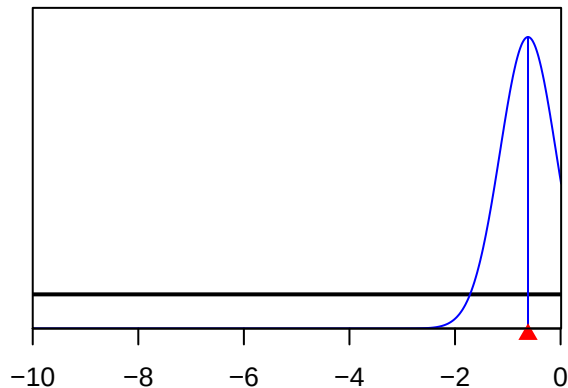
SizeSpline\_GradLo\_F8-OBJ\_C\_Q23(8)



SizeSpline\_Val\_11\_F7-OBJ\_Nc\_Q23(7)

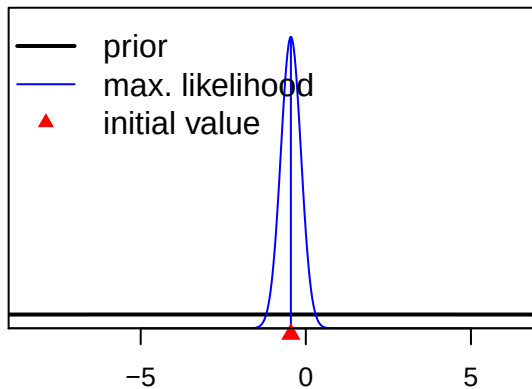


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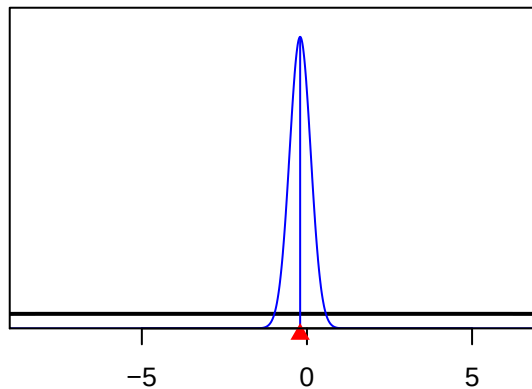


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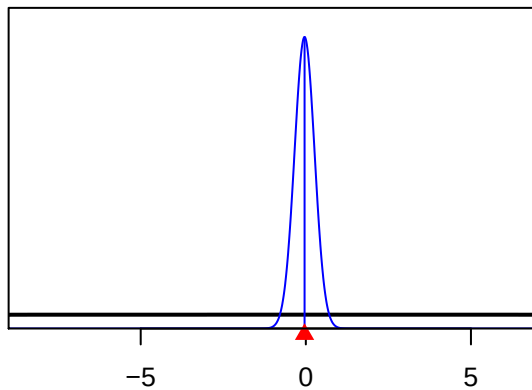
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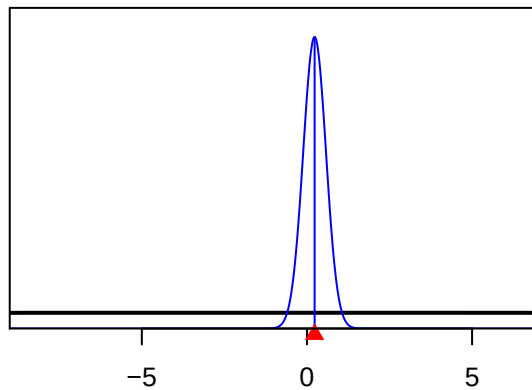
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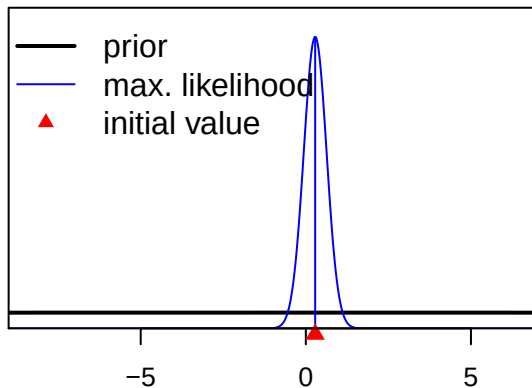


SizeSpline\_Val\_6 F8-OBJ\_C\_Q23(8)

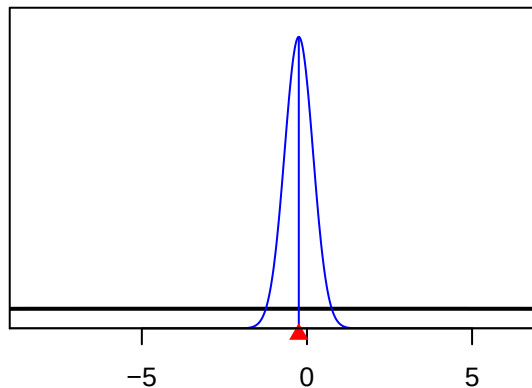


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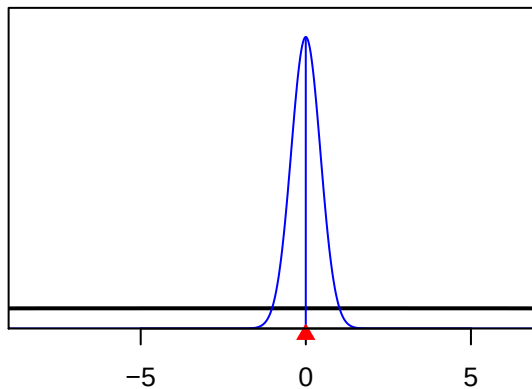
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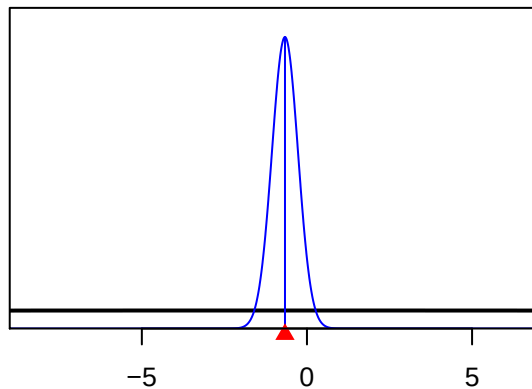
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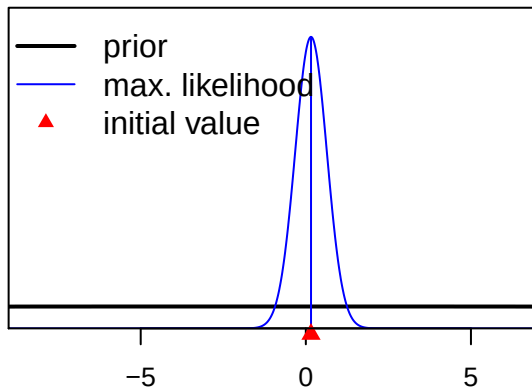


SizeSpline\_Val\_10\_F8-OBJ\_C\_Q23(8)

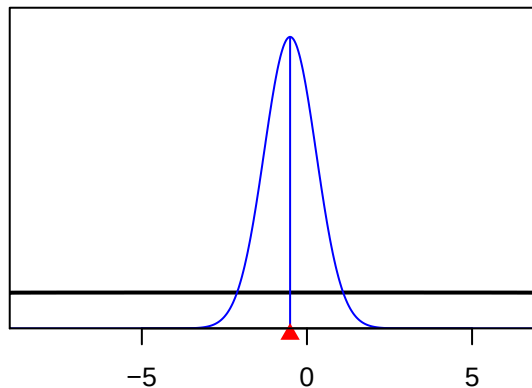


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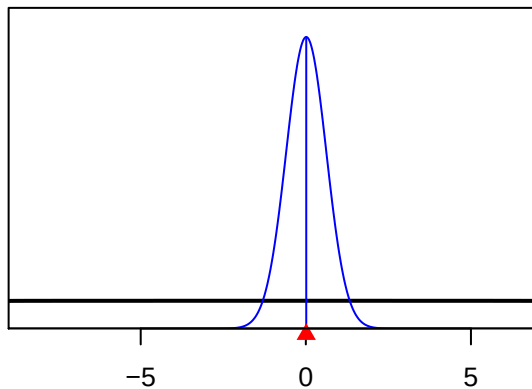
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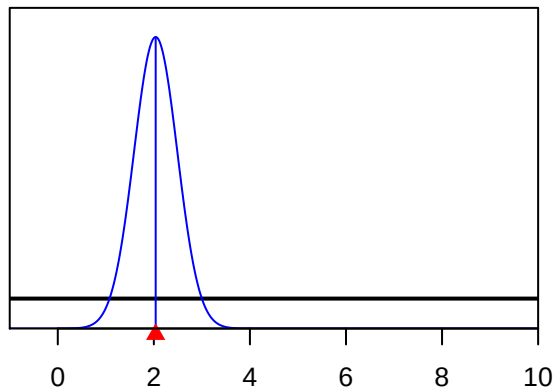
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SizeSpline\_Val\_12\_F8-OBJ\_C\_Q23(8)

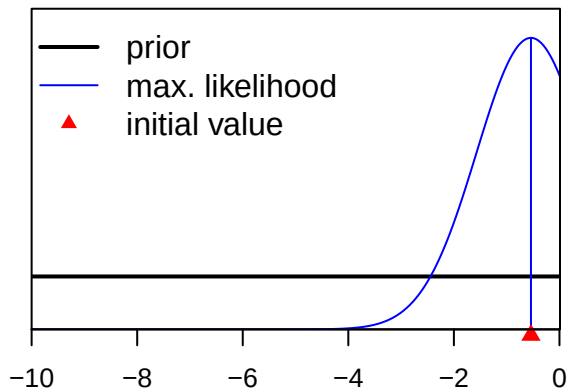


SizeSpline\_GradLo\_F9-OBJ\_Cc\_Q23(9)

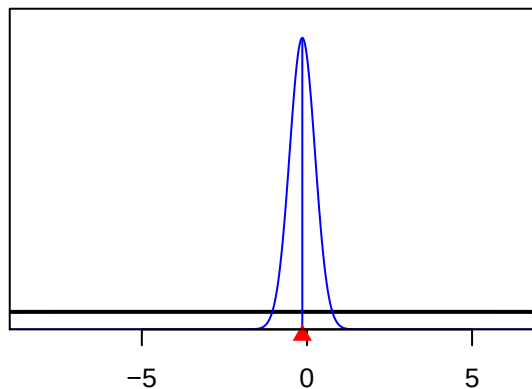


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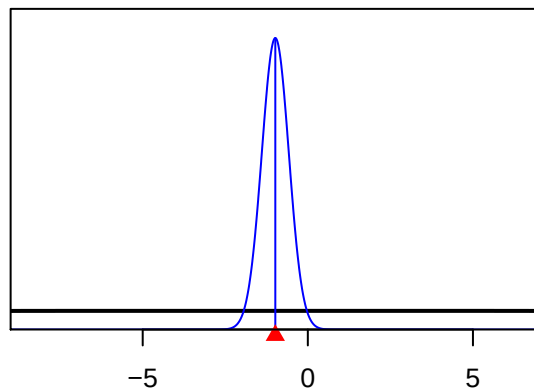
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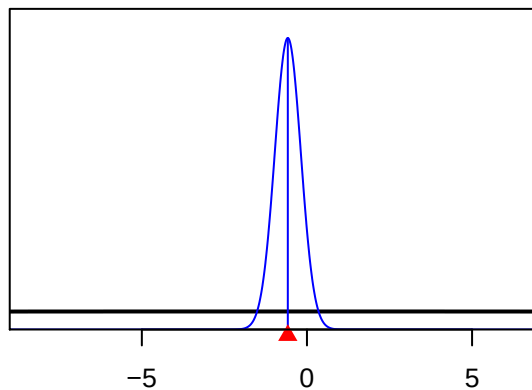
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SizeSpline\_Val\_2\_F9-OBJ\_Cc\_Q23(9)

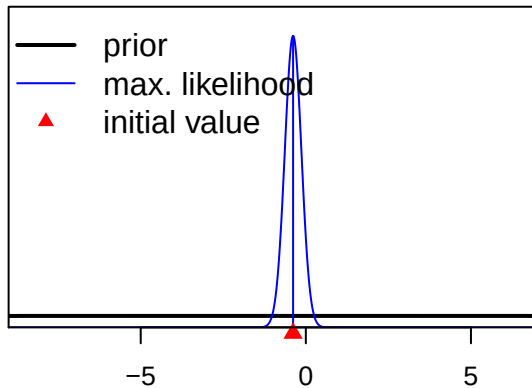


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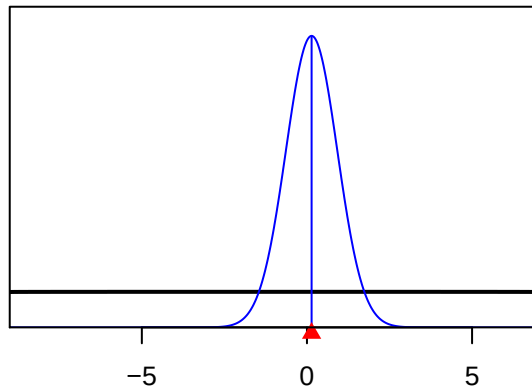


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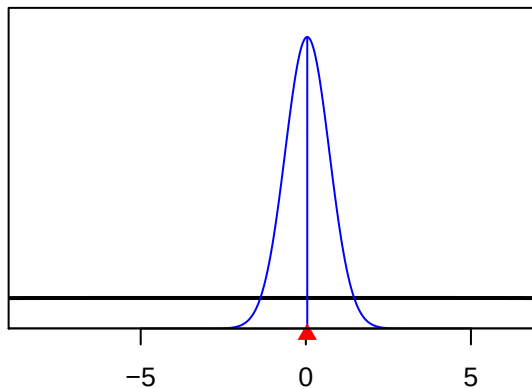
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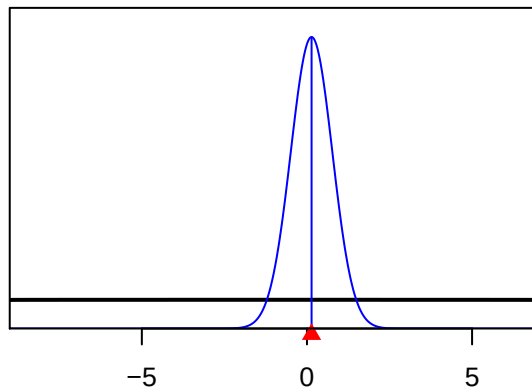
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SizeSpline\_Val\_7\_F9-OBJ\_Cc\_Q23(9)

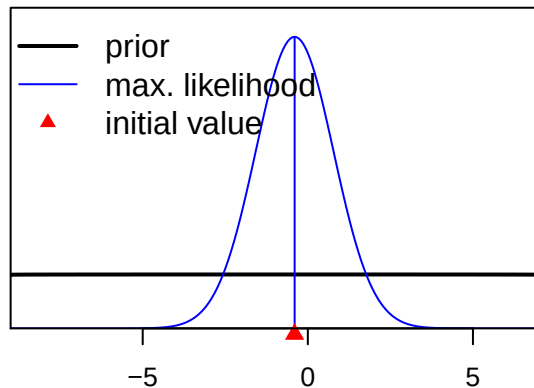


SizeSpline\_Val\_9\_F9-OBJ\_Cc\_Q23(9)

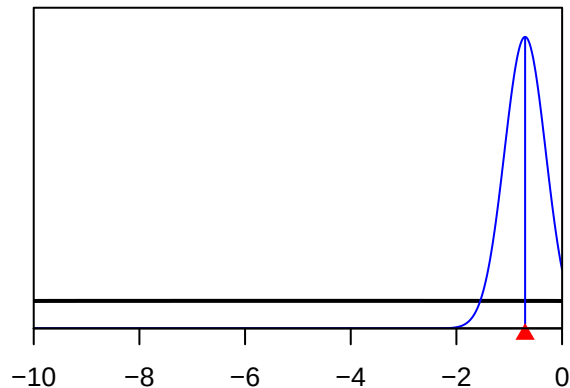


Parameter value

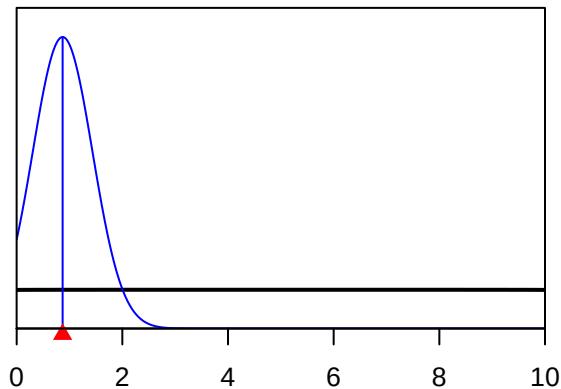
SizeSpline\_Val\_10\_F9-OBJ\_Cc\_Q23(9)



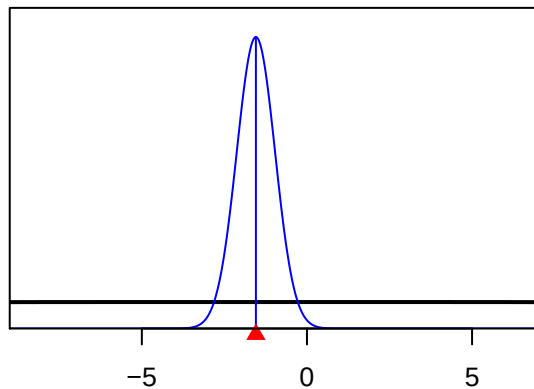
SizeSpline\_GradHi\_F10-OBJ\_S\_Q23(10)



SizeSpline\_GradLo\_F10-OBJ\_S\_Q23(10)



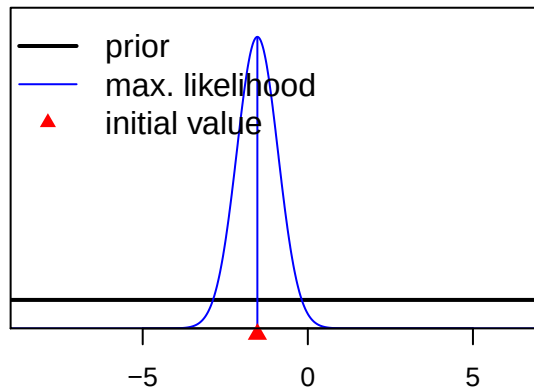
SizeSpline\_Val\_2\_F10-OBJ\_S\_Q23(10)



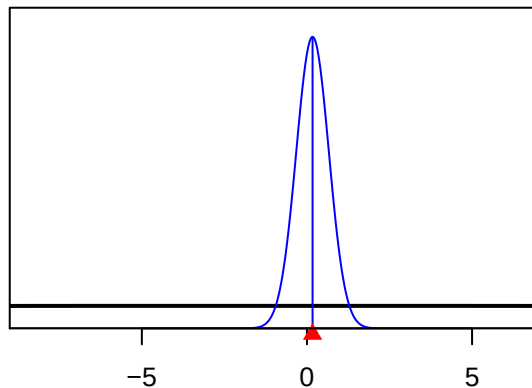
Parameter value



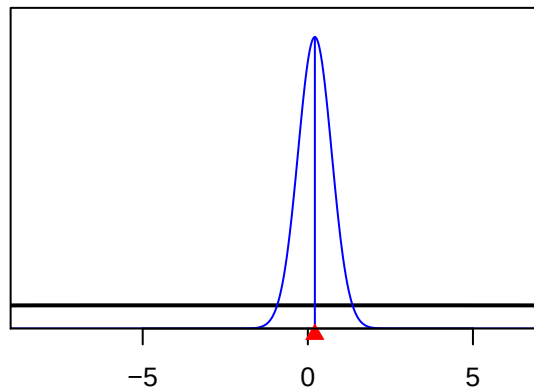
SizeSpline\_Val\_3\_F10-OBJ\_S\_Q23(10)



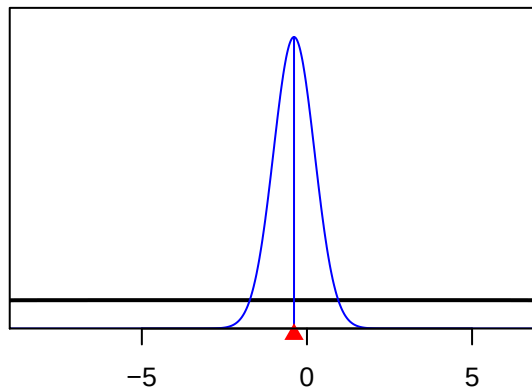
SizeSpline\_Val\_5\_F10-OBJ\_S\_Q23(10)



SizeSpline\_Val\_4\_F10-OBJ\_S\_Q23(10)

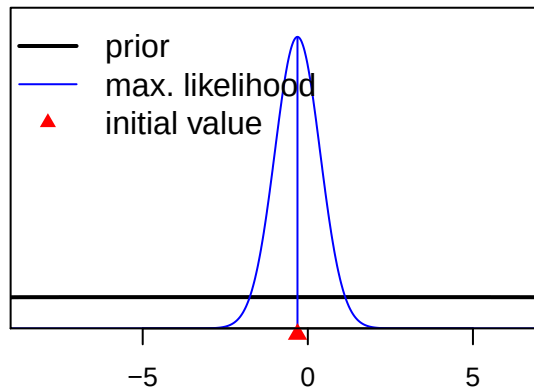


SizeSpline\_Val\_6\_F10-OBJ\_S\_Q23(10)

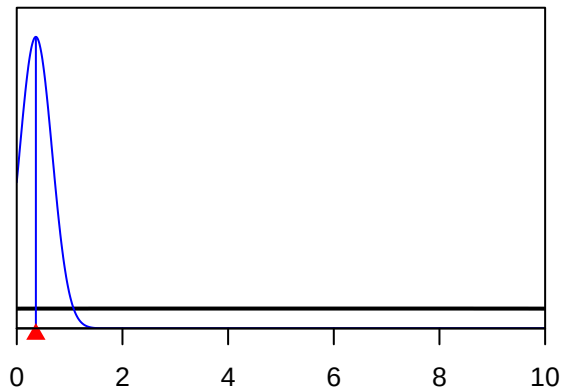


Parameter value

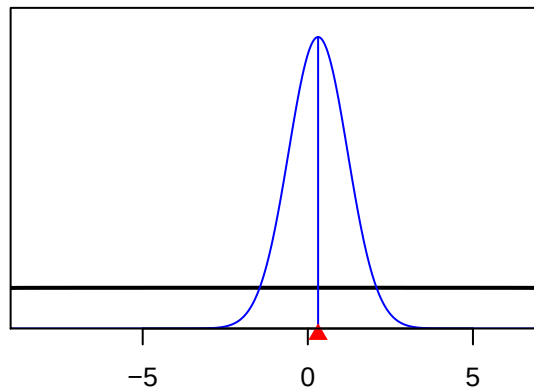
SizeSpline\_Val\_7\_F10-OBJ\_S\_Q23(10)



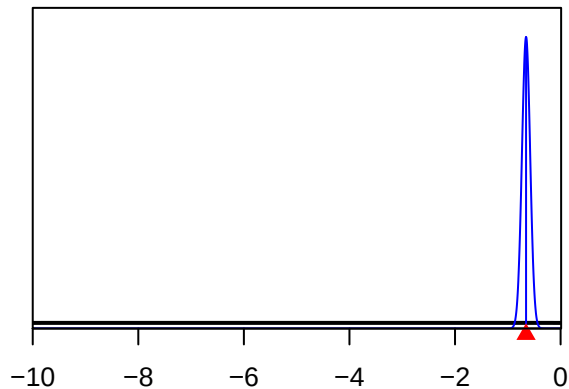
SizeSpline\_GradLo\_F11-NOA\_N(11)



SizeSpline\_Val\_9\_F10-OBJ\_S\_Q23(10)

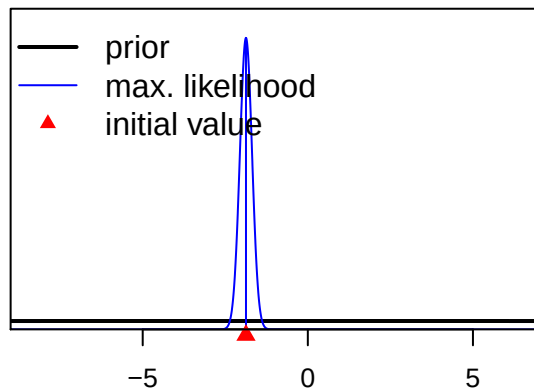


SizeSpline\_GradHi\_F11-NOA\_N(11)

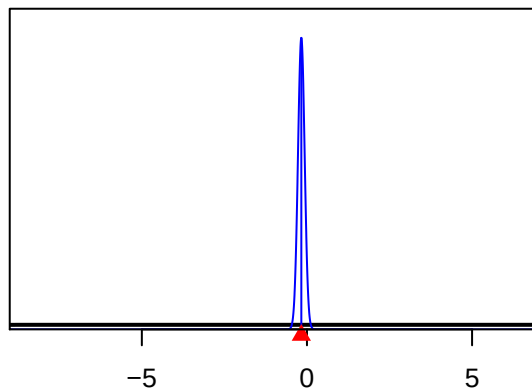


Parameter value

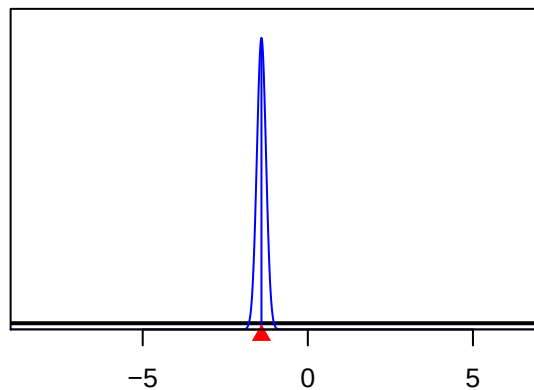
SizeSpline\_Val\_2\_F11-NOA\_N(11)



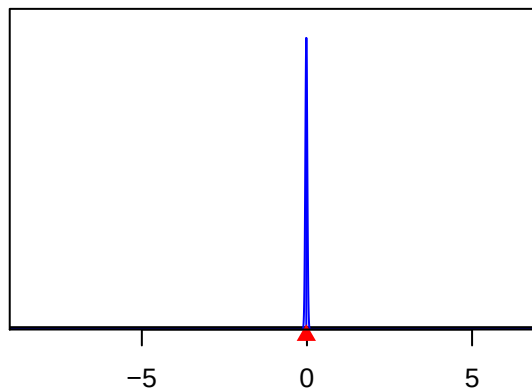
SizeSpline\_Val\_4\_F11-NOA\_N(11)



SizeSpline\_Val\_3\_F11-NOA\_N(11)

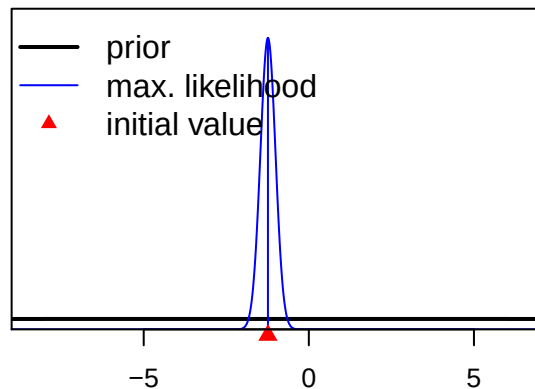


SizeSpline\_Val\_6\_F11-NOA\_N(11)

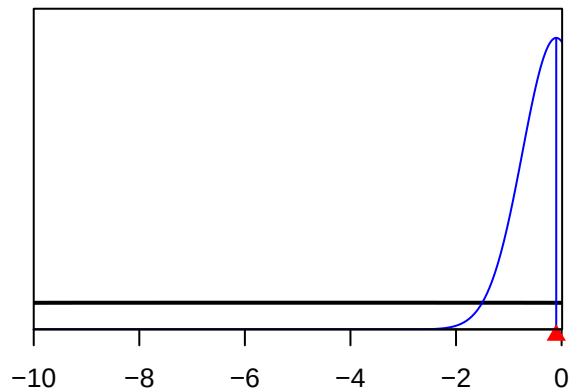


Parameter value

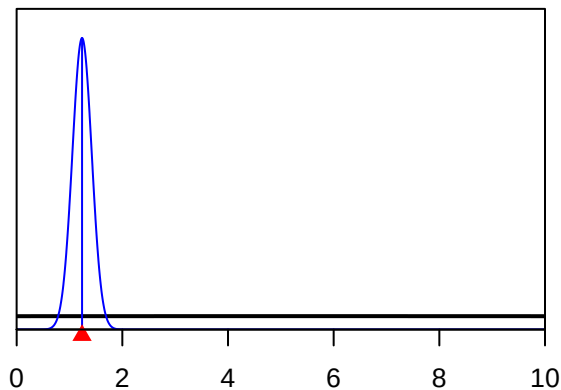
SizeSpline\_Val\_7\_F11-NOA\_N(11)



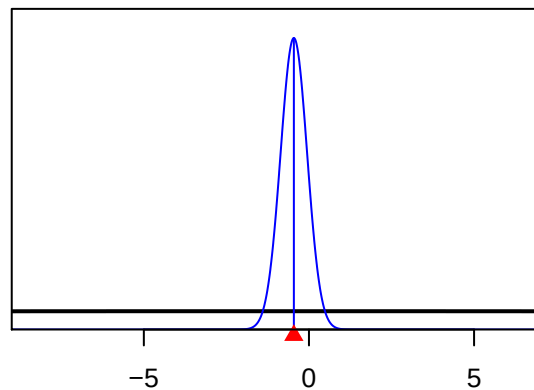
SizeSpline\_GradHi\_F12-NOA\_C(12)



SizeSpline\_GradLo\_F12-NOA\_C(12)

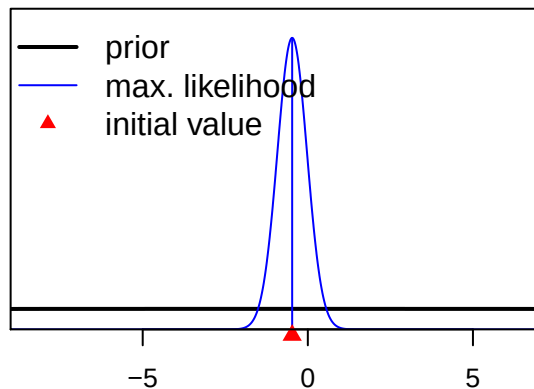


SizeSpline\_Val\_2\_F12-NOA\_C(12)

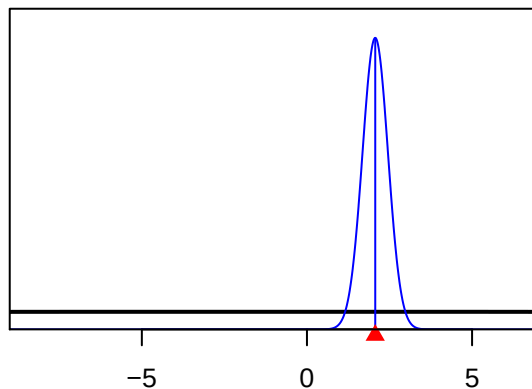


Parameter value

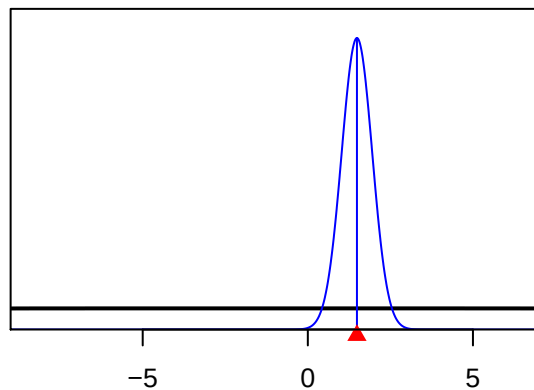
SizeSpline\_Val\_3\_F12-NOA\_C(12)



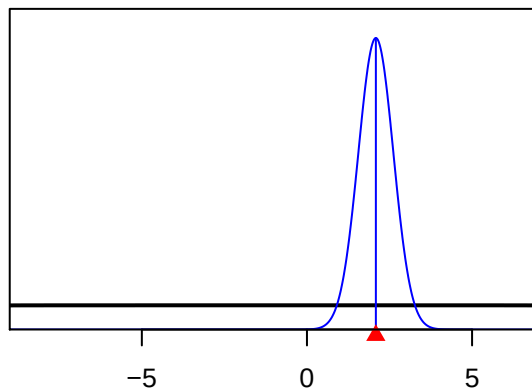
SizeSpline\_Val\_6\_F12-NOA\_C(12)



SizeSpline\_Val\_5\_F12-NOA\_C(12)

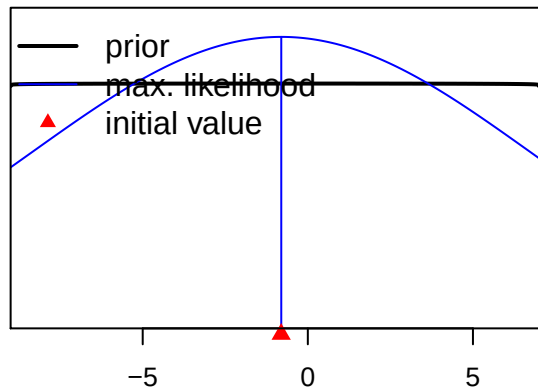


SizeSpline\_Val\_7\_F12-NOA\_C(12)

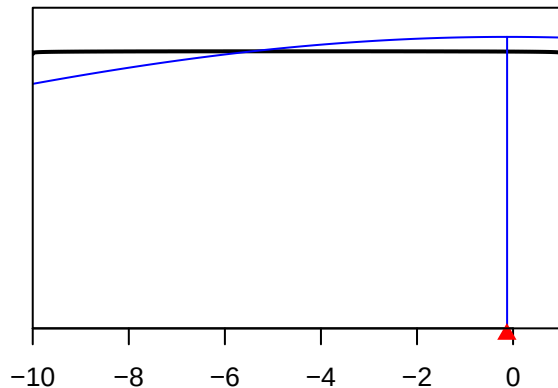


Parameter value

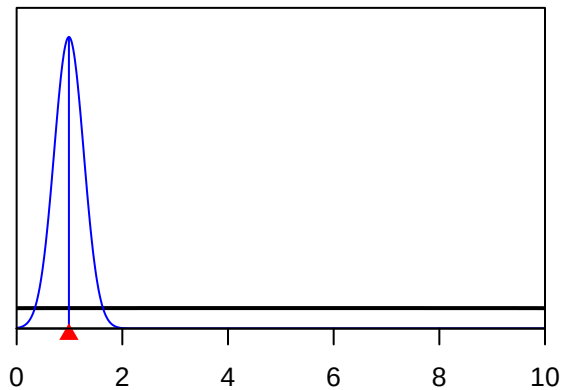
SizeSpline\_Val\_8\_F12-NOA\_C(12)



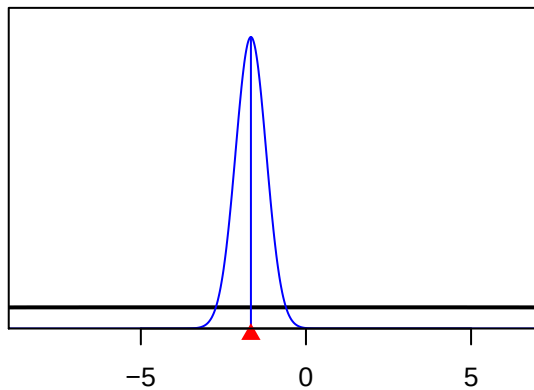
SizeSpline\_GradHi\_F13-NOA\_I(13)



SizeSpline\_GradLo\_F13-NOA\_I(13)

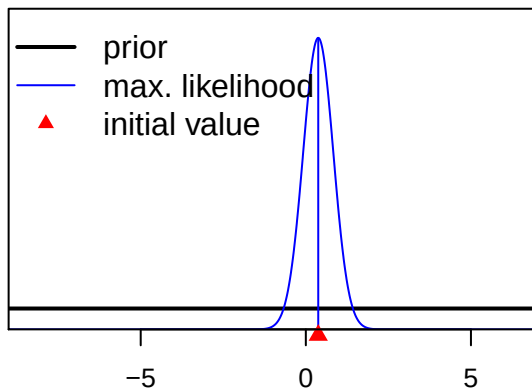


SizeSpline\_Val\_2\_F13-NOA\_I(13)

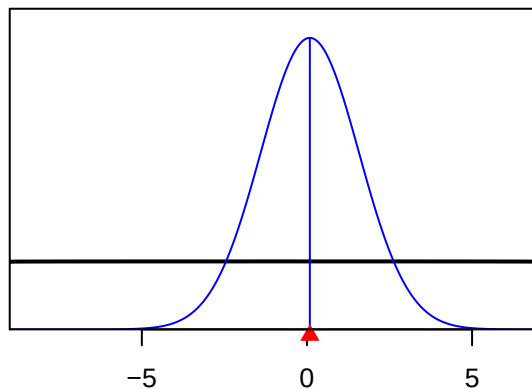


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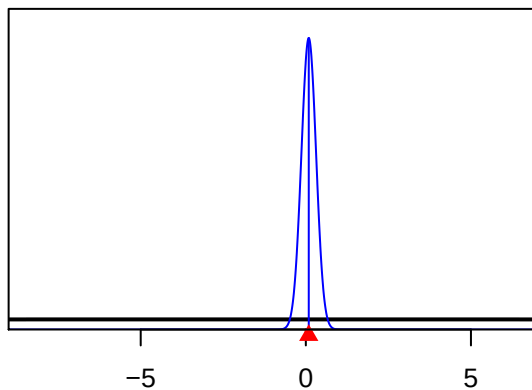
SizeSpline\_Val\_3\_F13-NOA\_I(13)



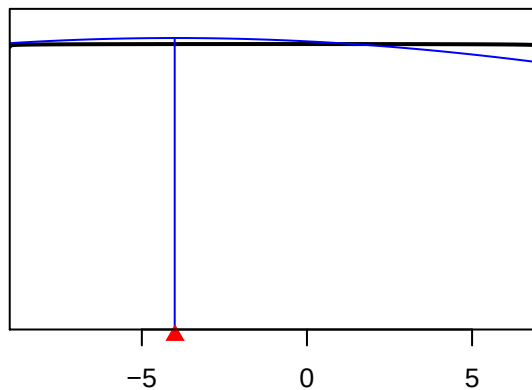
SizeSpline\_Val\_6\_F13-NOA\_I(13)



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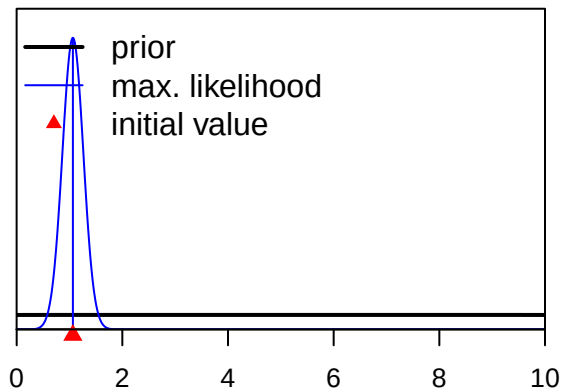


SizeSpline\_Val\_7\_F13-NOA\_I(13)

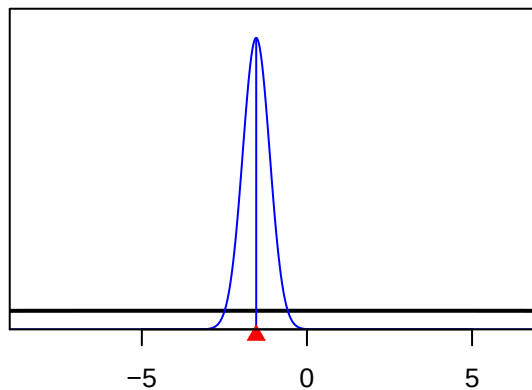


Parameter value

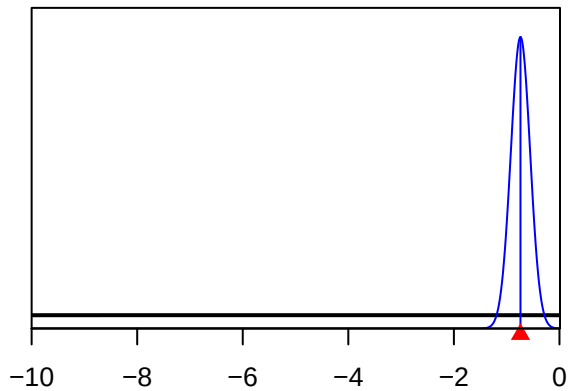
SizeSpline\_GradLo\_F14-NOA\_S(14)



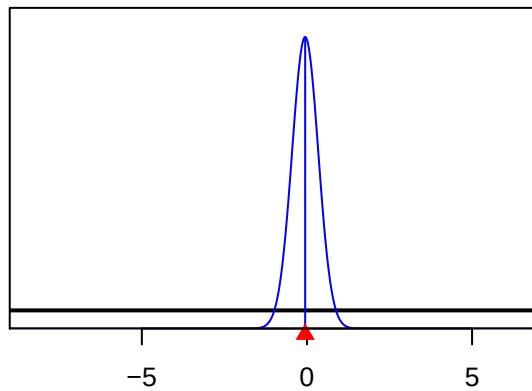
SizeSpline\_Val\_2\_F14-NOA\_S(14)



SizeSpline\_GradHi\_F14-NOA\_S(14)



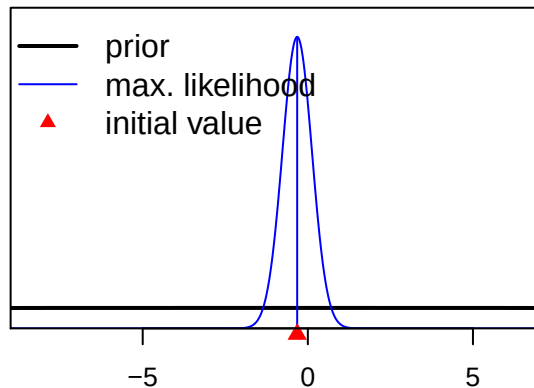
SizeSpline\_Val\_3\_F14-NOA\_S(14)



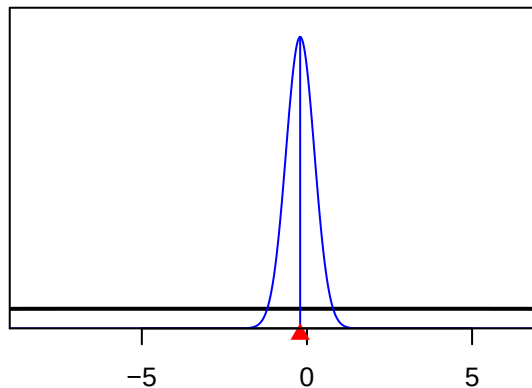
Parameter value



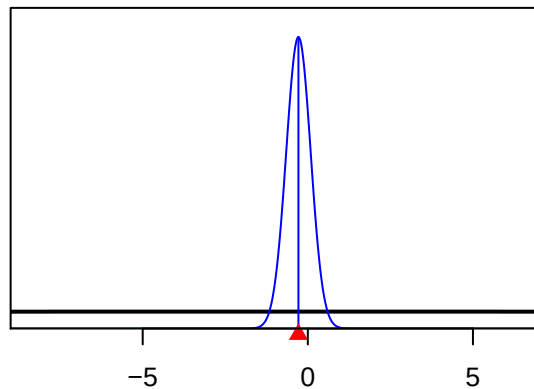
SizeSpline\_Val\_4\_F14-NOA\_S(14)



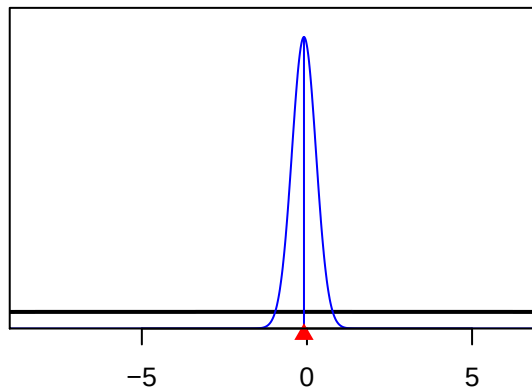
SizeSpline\_Val\_6\_F14-NOA\_S(14)



SizeSpline\_Val\_5\_F14-NOA\_S(14)

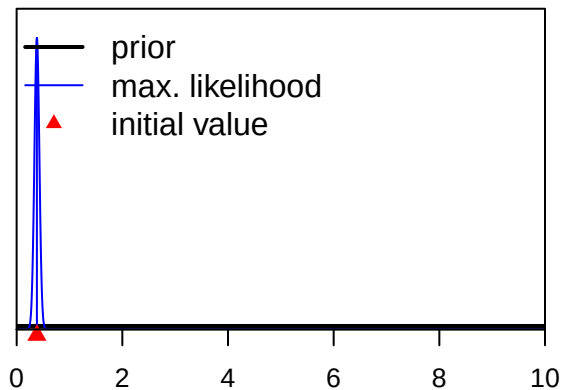


SizeSpline\_Val\_8\_F14-NOA\_S(14)

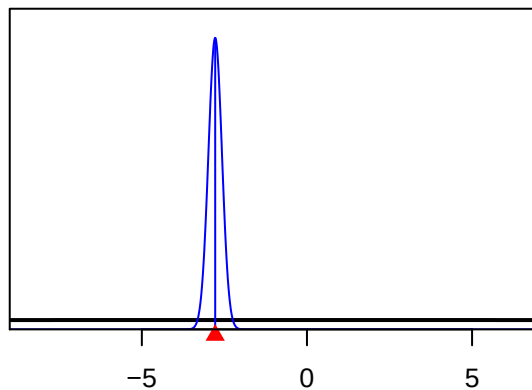


Parameter value

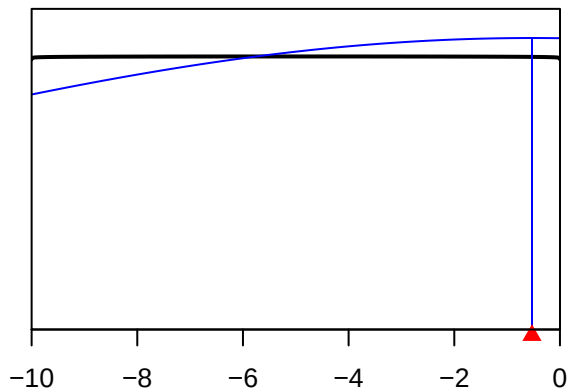
SizeSpline\_GradLo\_F15-DEL\_N(15)



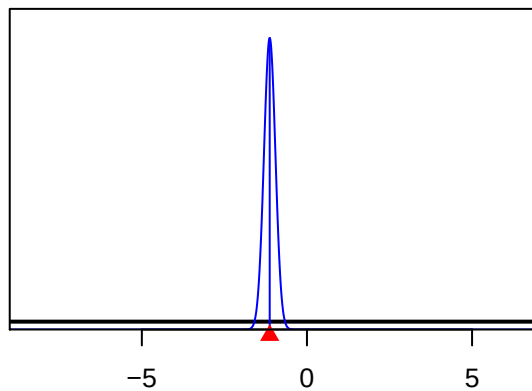
SizeSpline\_Val\_2\_F15-DEL\_N(15)



SizeSpline\_GradHi\_F15-DEL\_N(15)

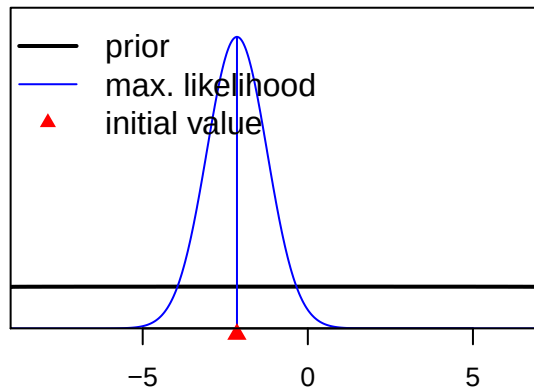


SizeSpline\_Val\_3\_F15-DEL\_N(15)

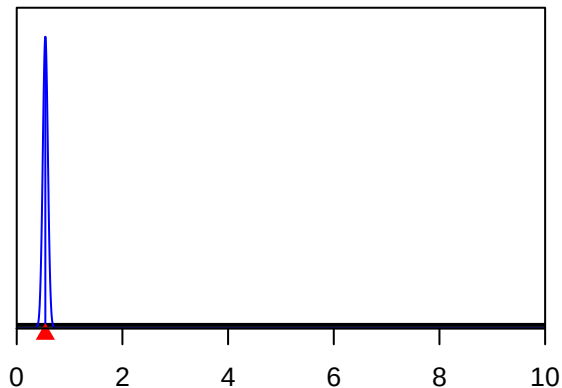


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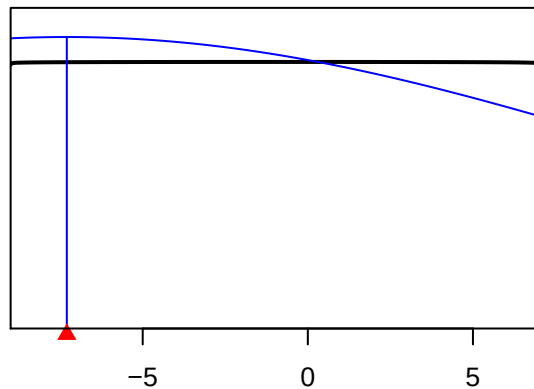
SizeSpline\_Val\_5\_F15-DEL\_N(15)



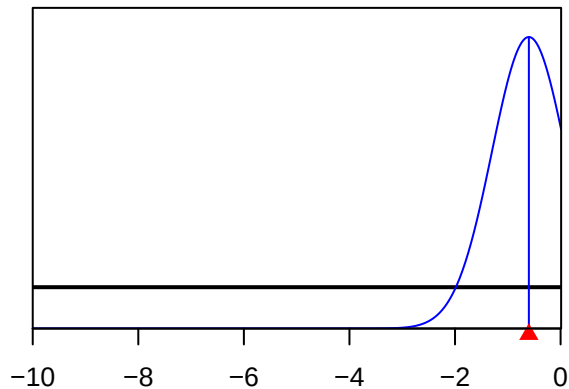
SizeSpline\_GradLo\_F16-DEL\_NE(16)



SizeSpline\_Val\_6\_F15-DEL\_N(15)

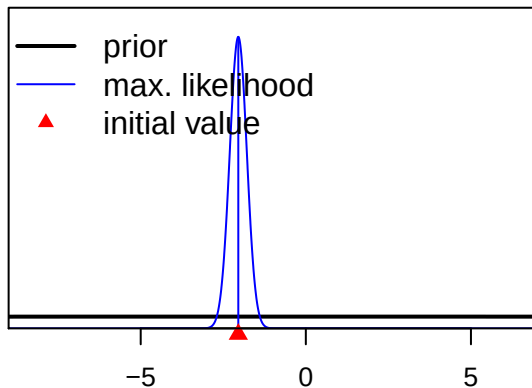


SizeSpline\_GradHi\_F16-DEL\_NE(16)

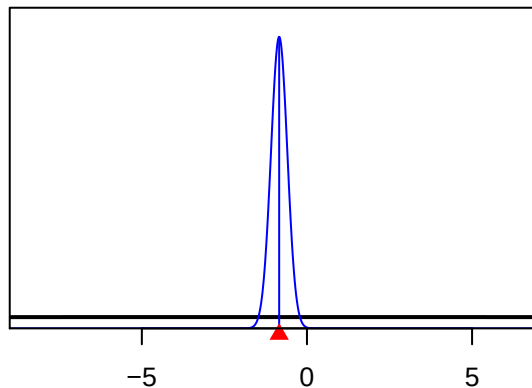


Parameter value

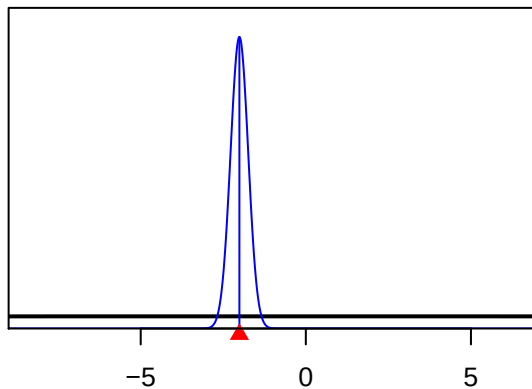
SizeSpline\_Val\_2\_F16-DEL\_NE(16)



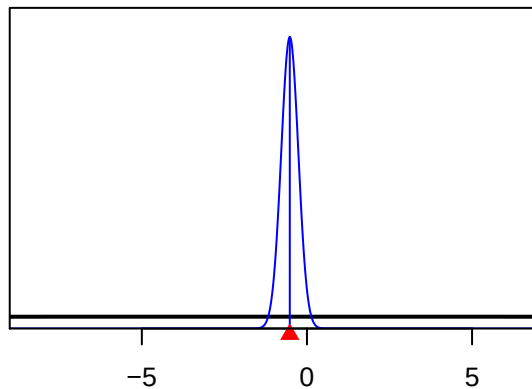
SizeSpline\_Val\_4\_F16-DEL\_NE(16)



SizeSpline\_Val\_3\_F16-DEL\_NE(16)

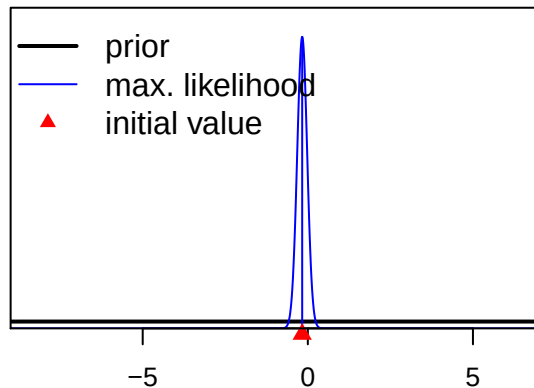


SizeSpline\_Val\_5\_F16-DEL\_NE(16)

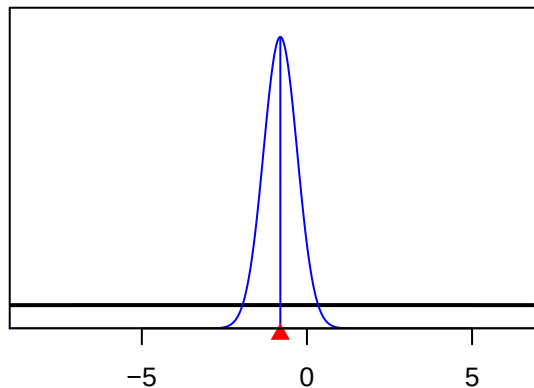


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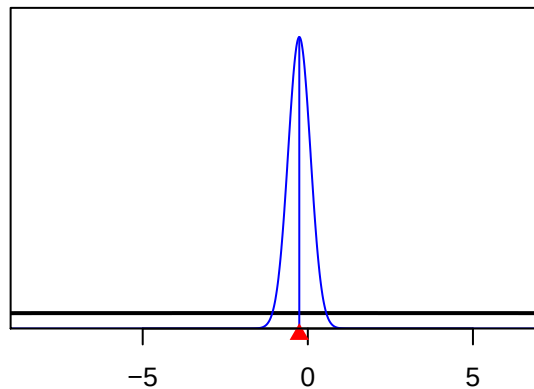
SizeSpline\_Val\_7\_F16-DEL\_NE(16)



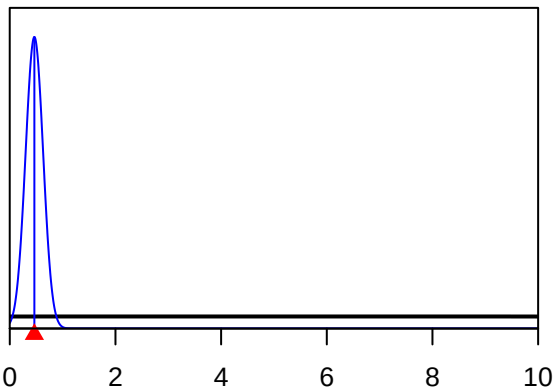
SizeSpline\_Val\_9\_F16-DEL\_NE(16)



SizeSpline\_Val\_8\_F16-DEL\_NE(16)

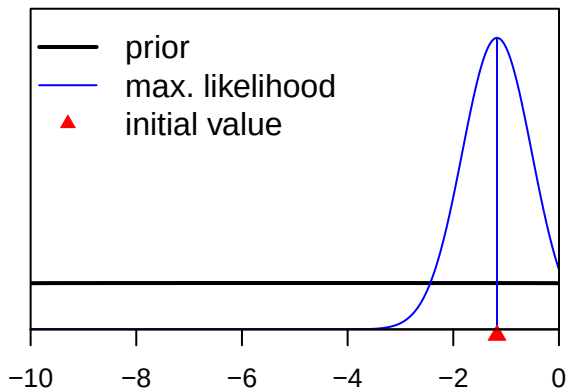


SizeSpline\_GradLo\_F17-DEL\_M(17)

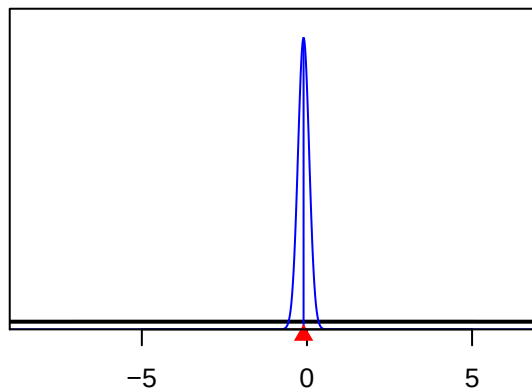


Parameter value

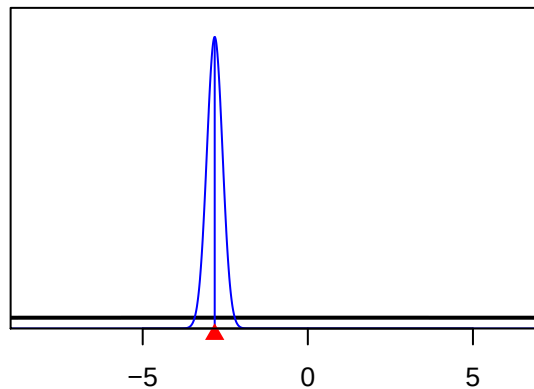
SizeSpline\_GradHi\_F17-DEL\_M(17)



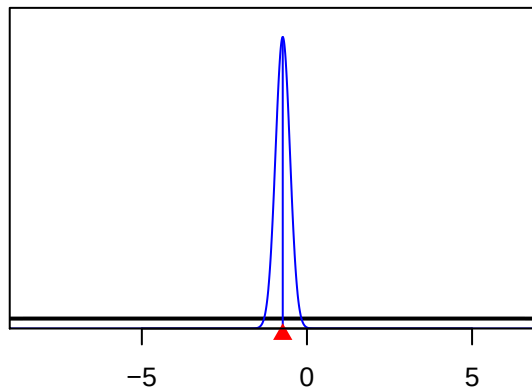
SizeSpline\_Val\_4\_F17-DEL\_M(17)



SizeSpline\_Val\_2\_F17-DEL\_M(17)

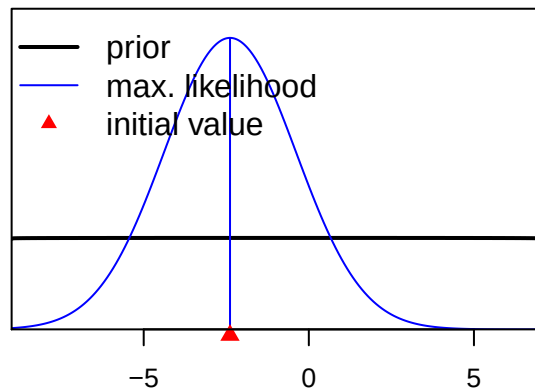


SizeSpline\_Val\_5\_F17-DEL\_M(17)

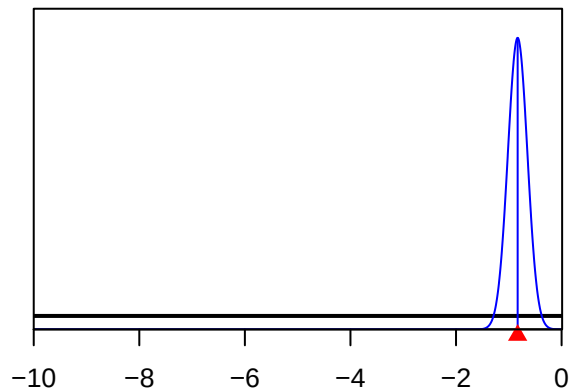


Parameter value

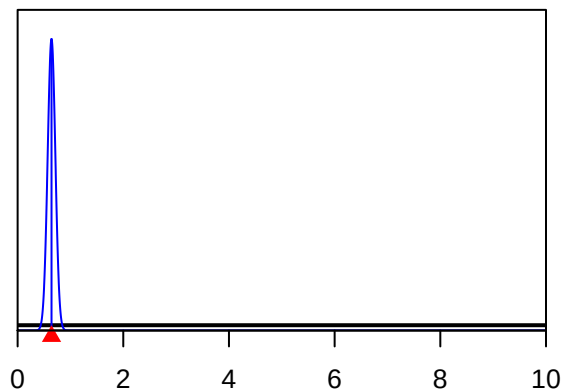
SizeSpline\_Val\_6\_F17-DEL\_M(17)



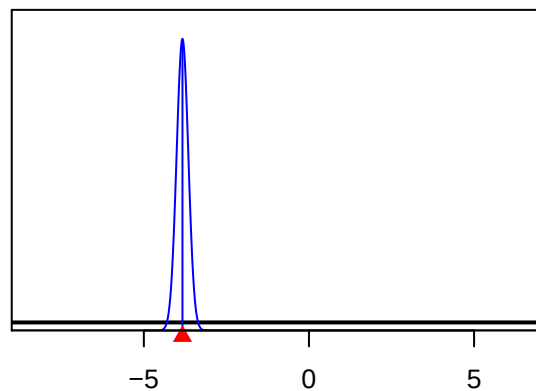
SizeSpline\_GradHi\_F18-DEL\_C(18)



SizeSpline\_GradLo\_F18-DEL\_C(18)

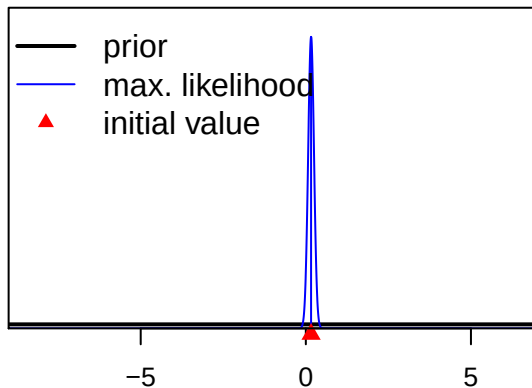


SizeSpline\_Val\_2\_F18-DEL\_C(18)

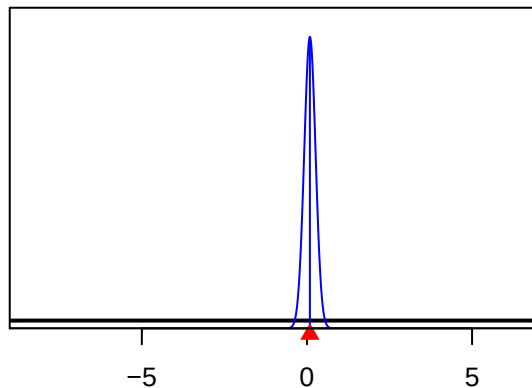


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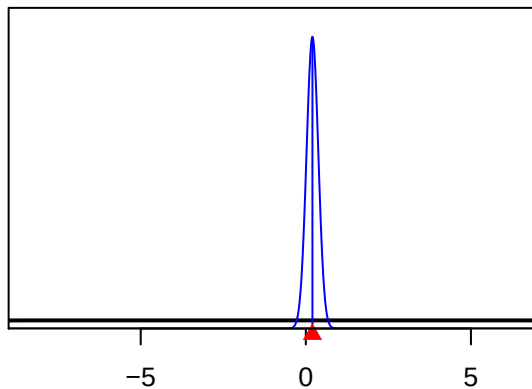
SizeSpline\_Val\_4\_F18-DEL\_C(18)



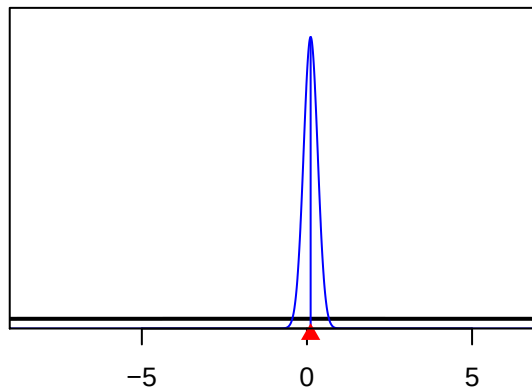
SizeSpline\_Val\_6\_F18-DEL\_C(18)



SizeSpline\_Val\_5\_F18-DEL\_C(18)



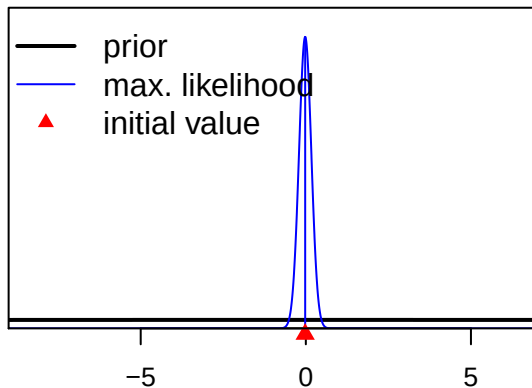
SizeSpline\_Val\_7\_F18-DEL\_C(18)



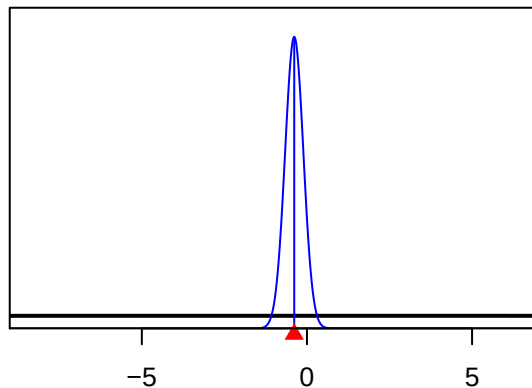
Parameter value



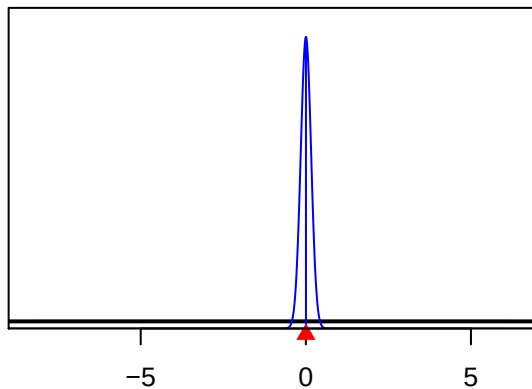
SizeSpline\_Val\_8\_F18-DEL\_C(18)



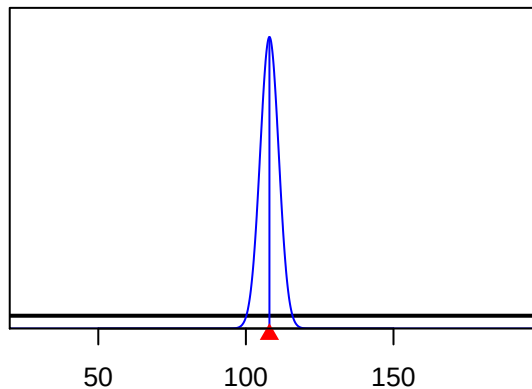
SizeSpline\_Val\_10\_F18-DEL\_C(18)



SizeSpline\_Val\_9\_F18-DEL\_C(18)

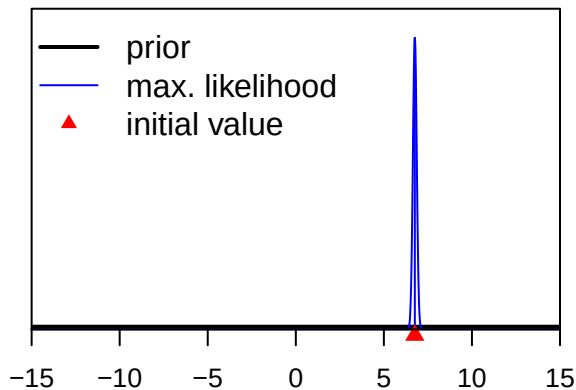


Size\_DbIN\_peak\_F19-DEL\_P(19)

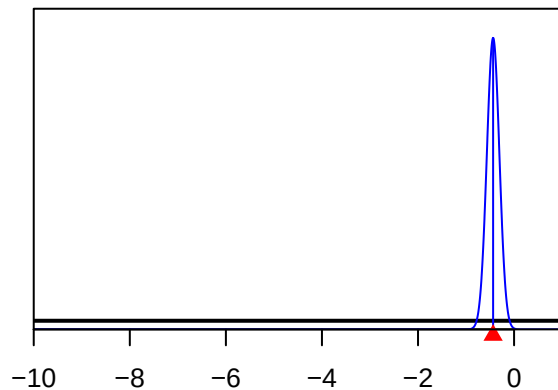


Parameter value

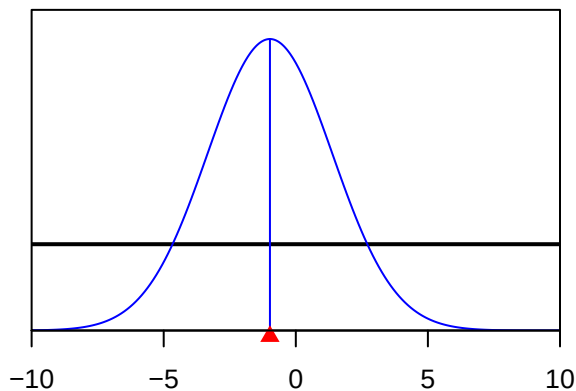
Size\_DblN\_ascend\_se\_F19-DEL\_P(19)



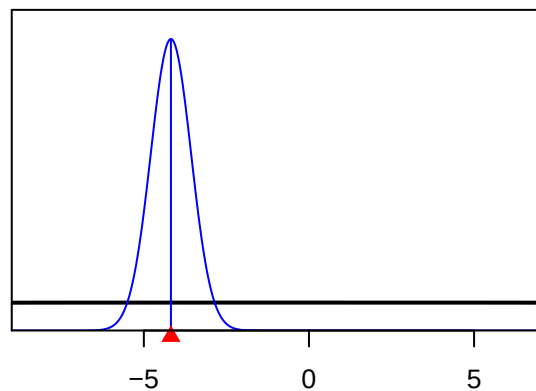
SizeSpline\_GradHi\_F22-BB(22)



SizeSpline\_GradLo\_F22-BB(22)

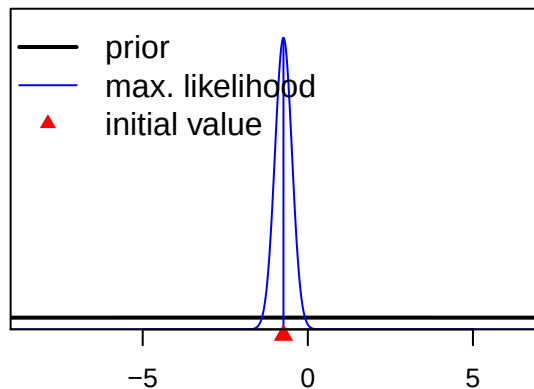


SizeSpline\_Val 2\_F22-BB(22)

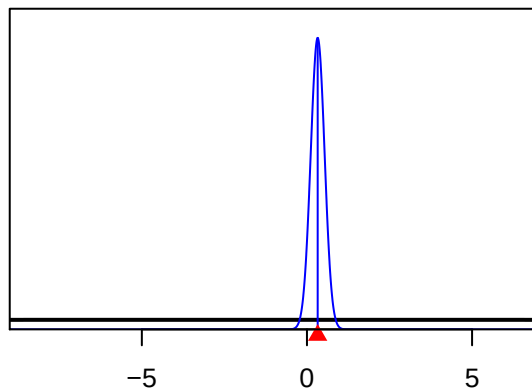


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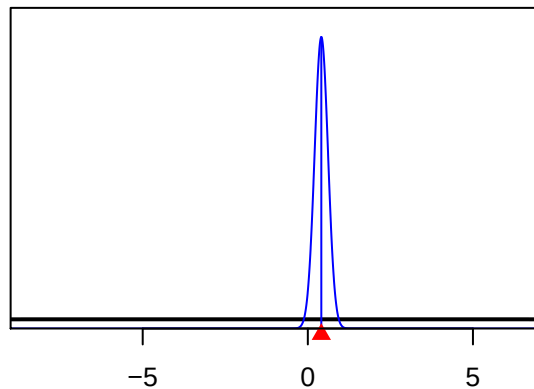
SizeSpline\_Val\_3\_F22-BB(22)



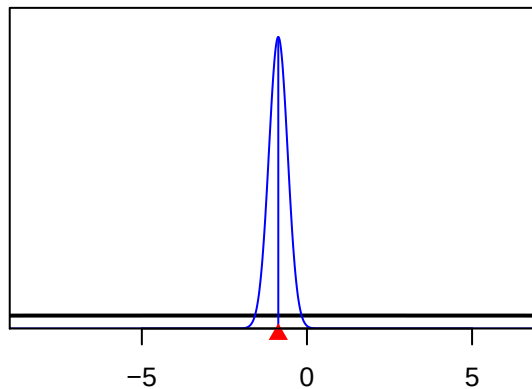
SizeSpline\_Val\_6\_F22-BB(22)



SizeSpline\_Val\_5\_F22-BB(22)

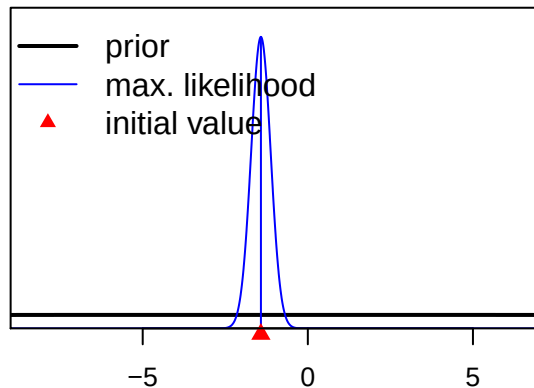


SizeSpline\_Val\_7\_F22-BB(22)

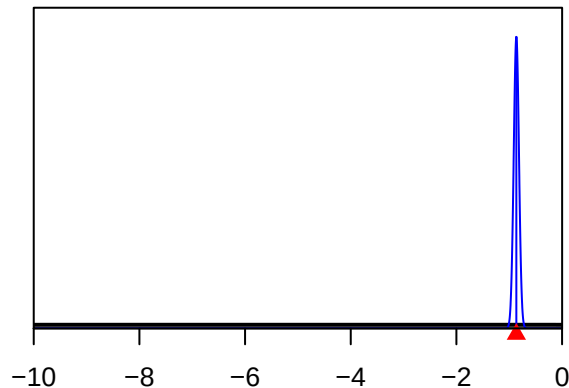


Parameter value

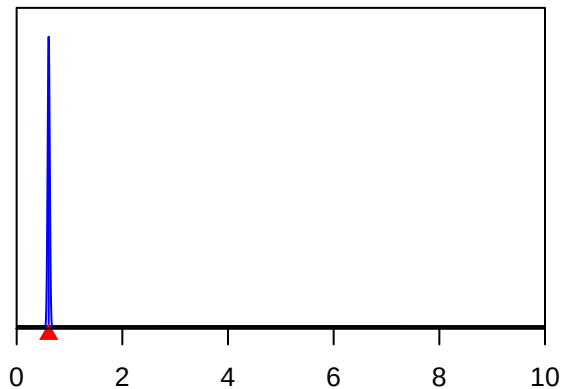
SizeSpline\_Val\_8\_F22-BB(22)



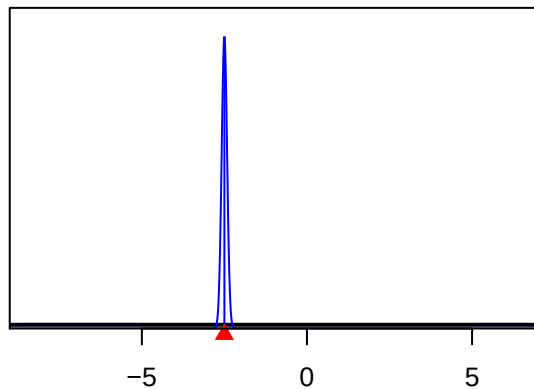
SizeSpline\_GradHi\_S1-PS\_DEL\_VAST(41)



SizeSpline\_GradLo\_S1-PS\_DEL\_VAST(41)



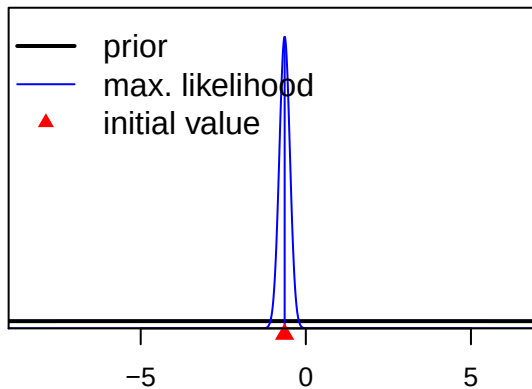
SizeSpline\_Val\_2\_S1-PS\_DEL\_VAST(41)



Parameter value

SizeSpline\_Val\_4\_S1-PS\_DEL\_VAST(41)

Density



Parameter value