

EPO yellowfin tuna  
Benchmark assessment 2020  
model: TBM.DS,  $h = 0.9$

Plots created using the 'r4ss' package in R

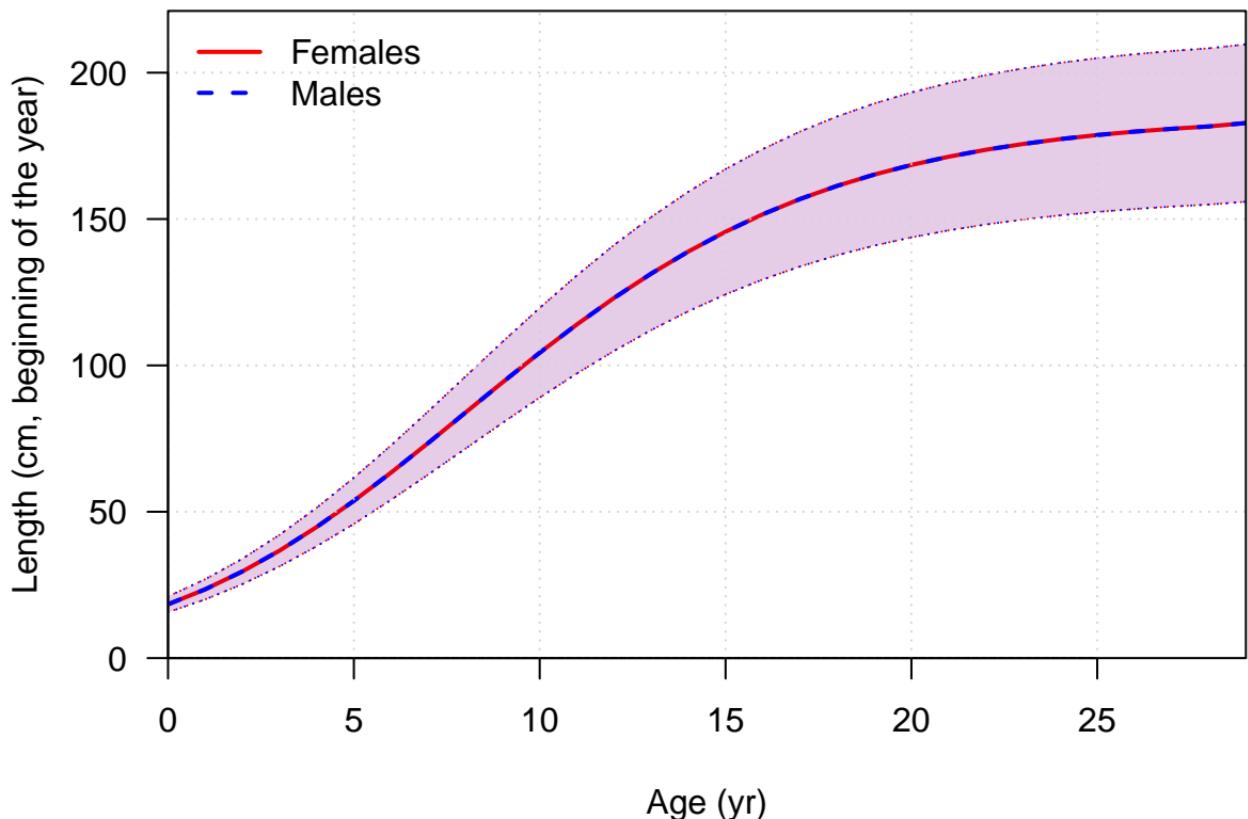
Stock Synthesis version: 3.30.15.0

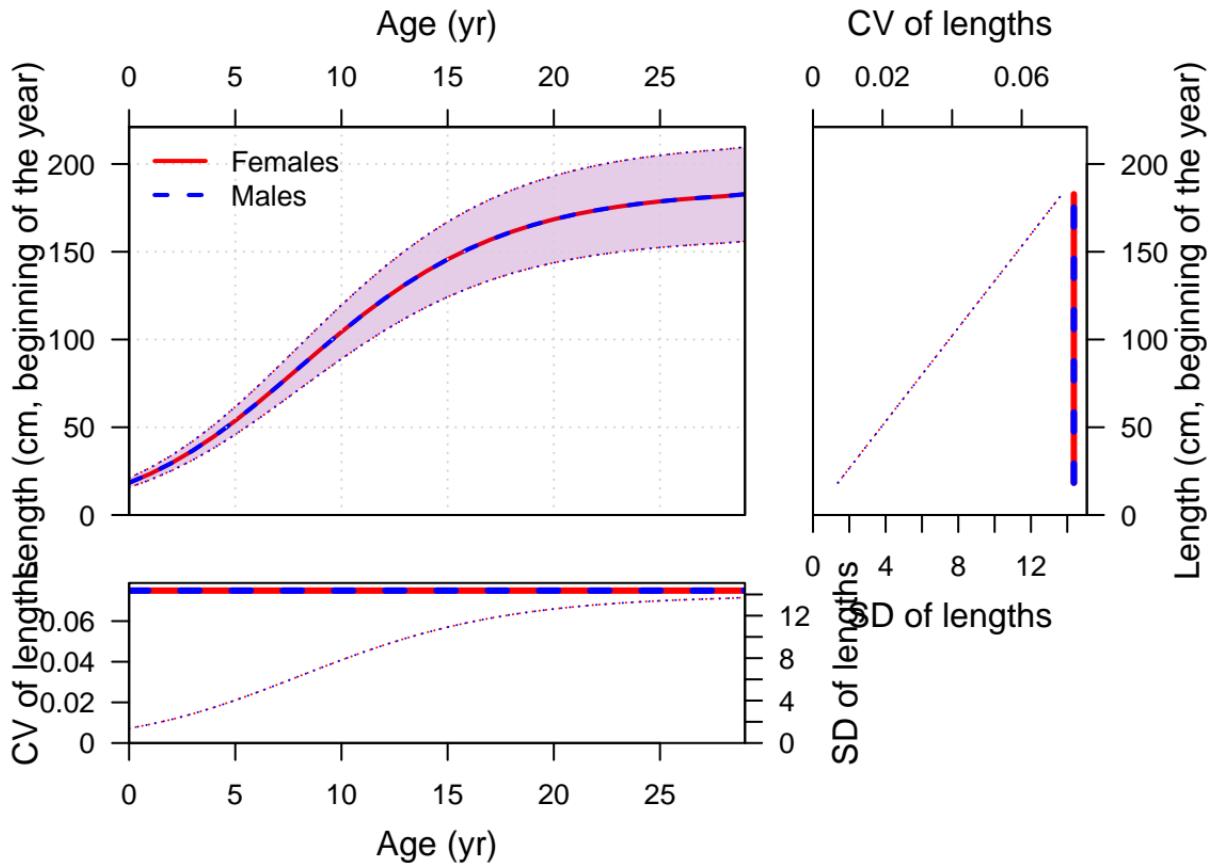
StartTime: Mon Jul 20 19:23:41 2020

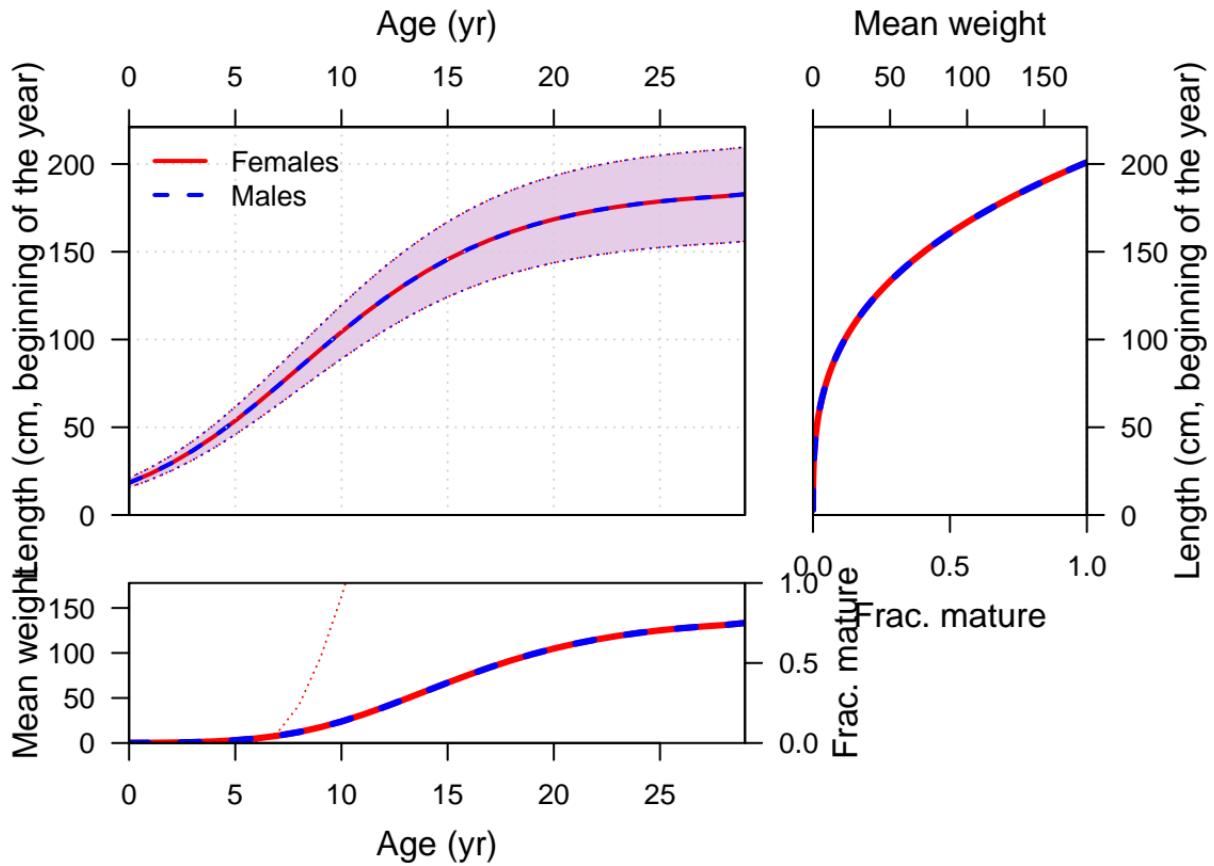
Data\_File: YFT-EPO.dat

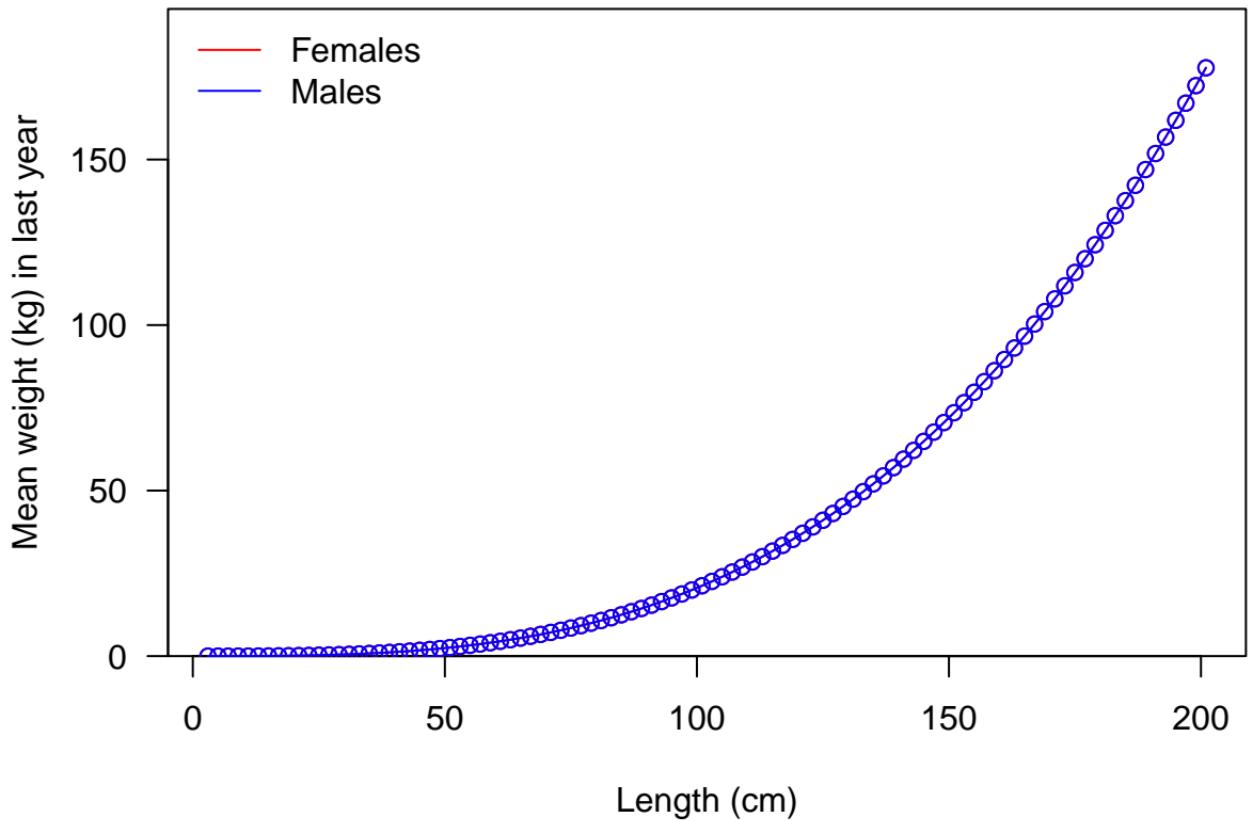
Control\_File: YFT-EPO.ctl

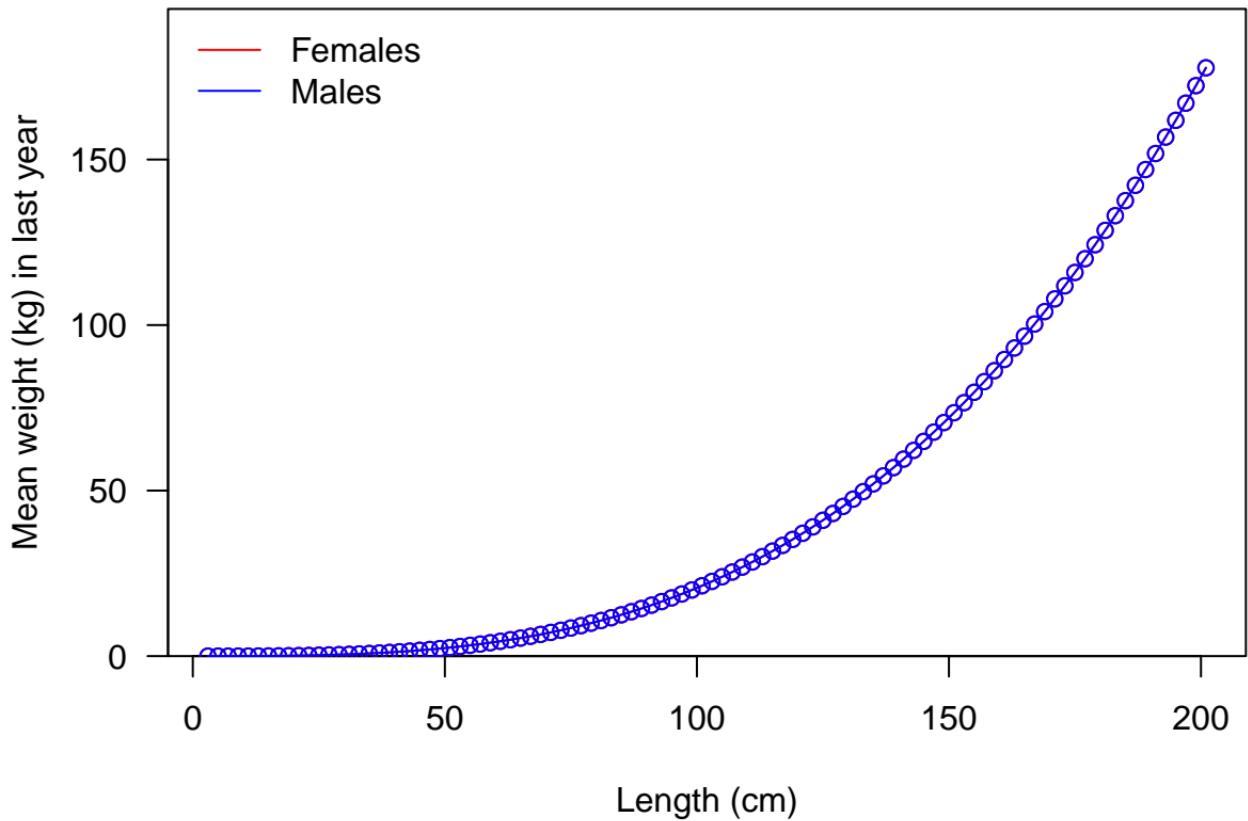
## Ending year expected growth (with 95% intervals)

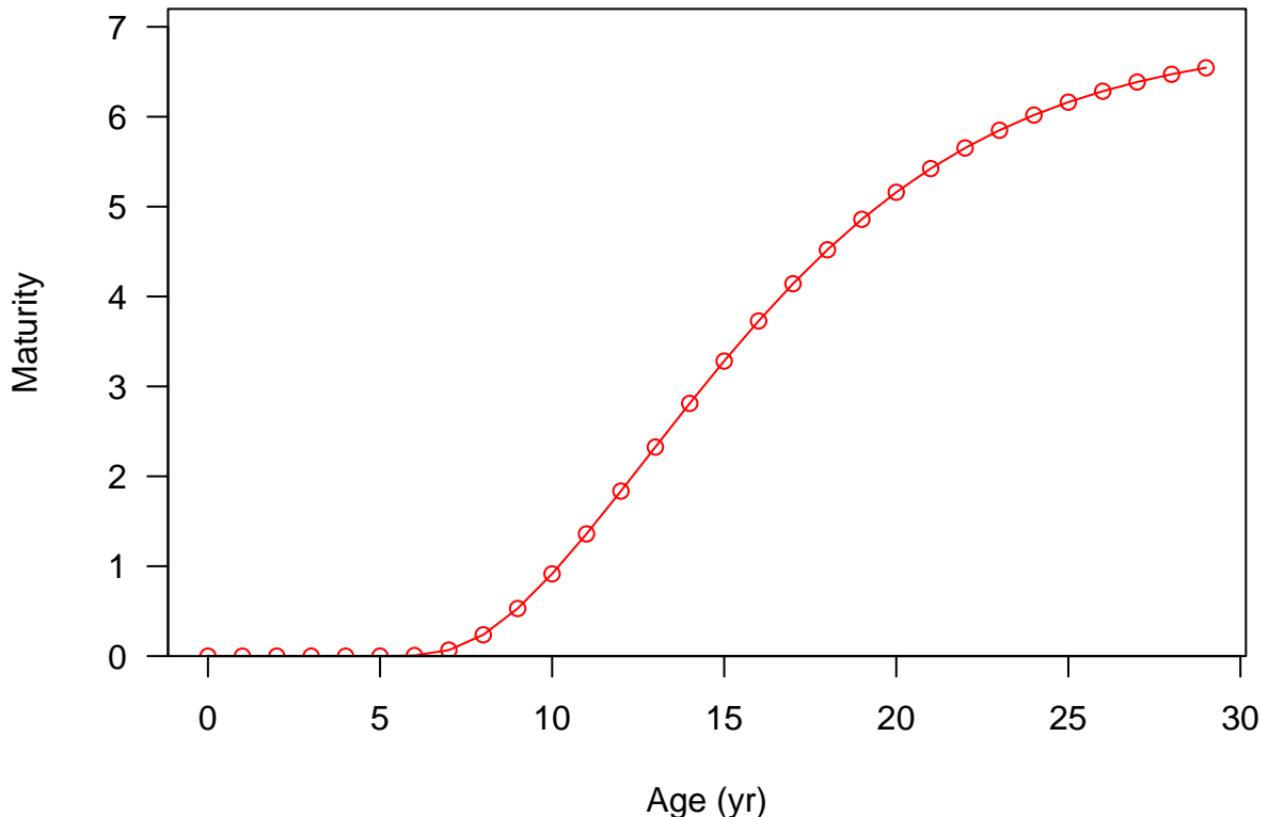


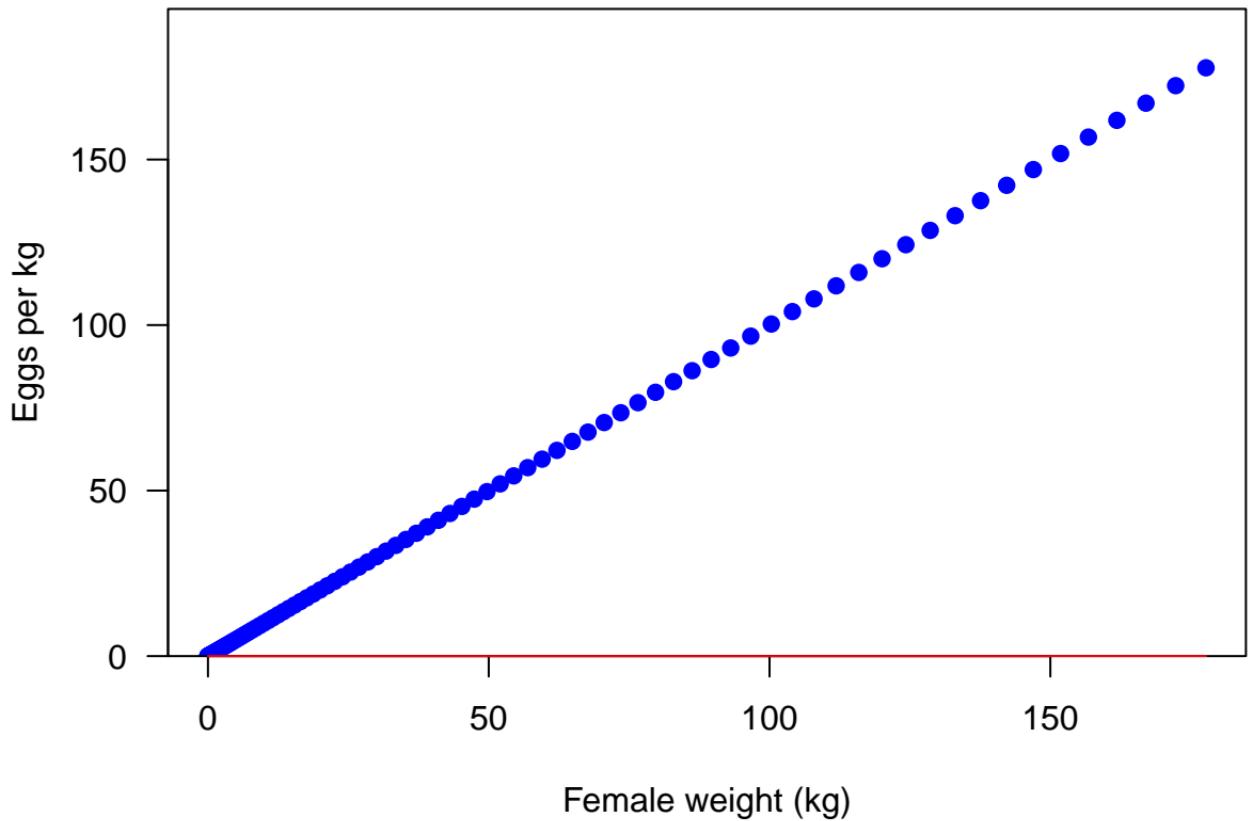


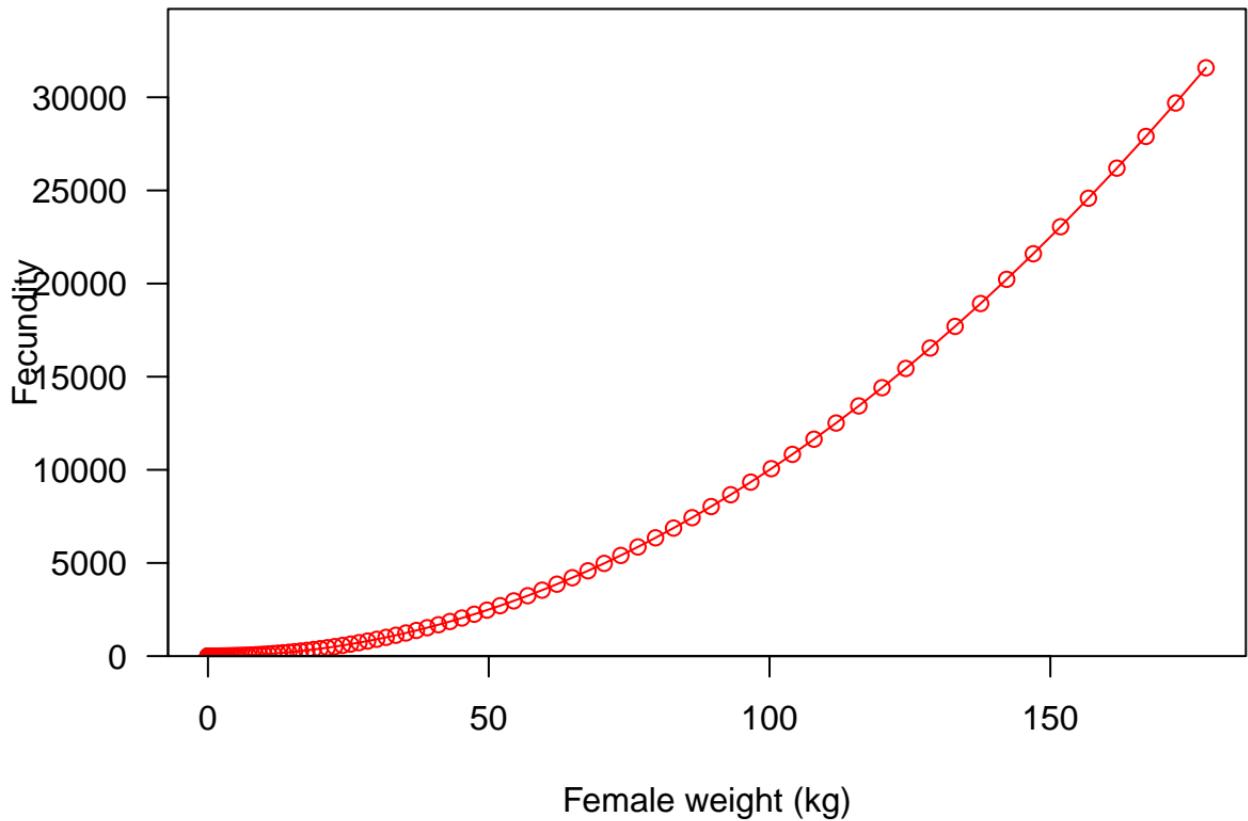


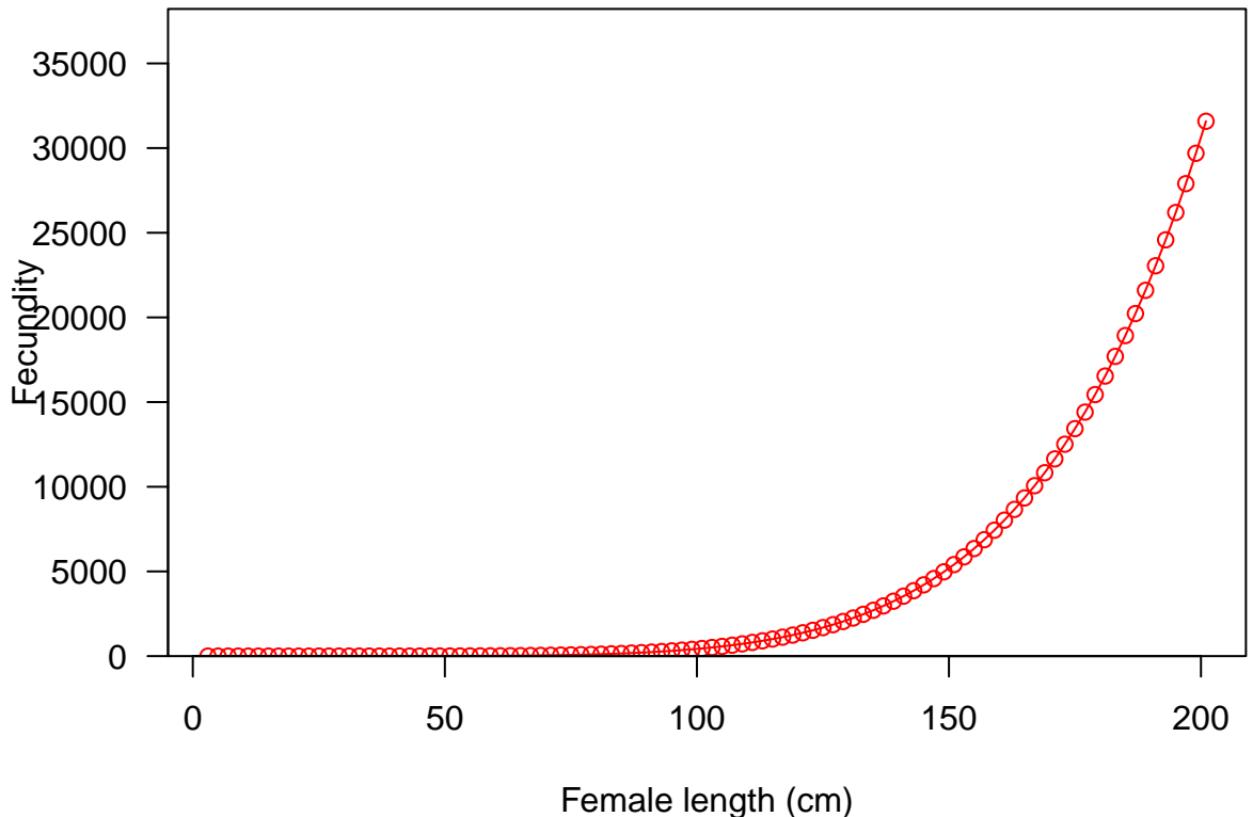


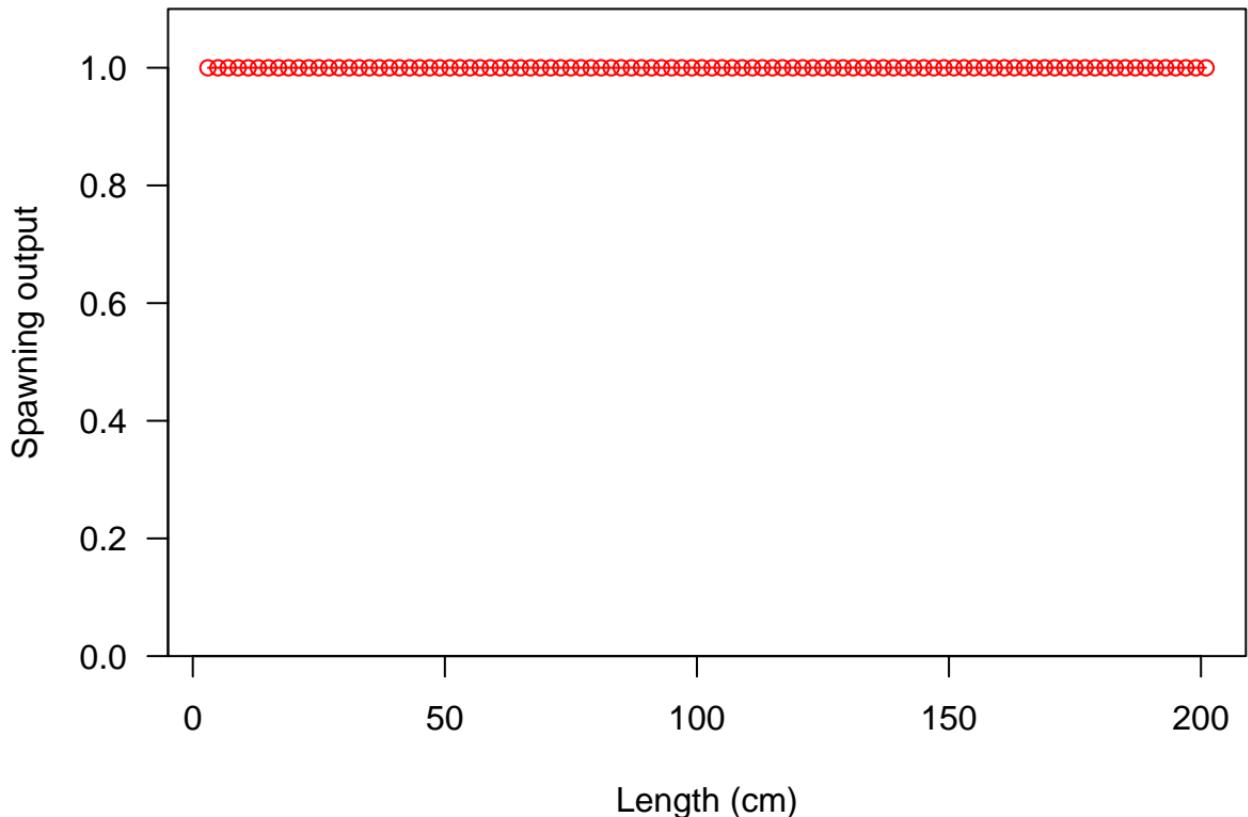


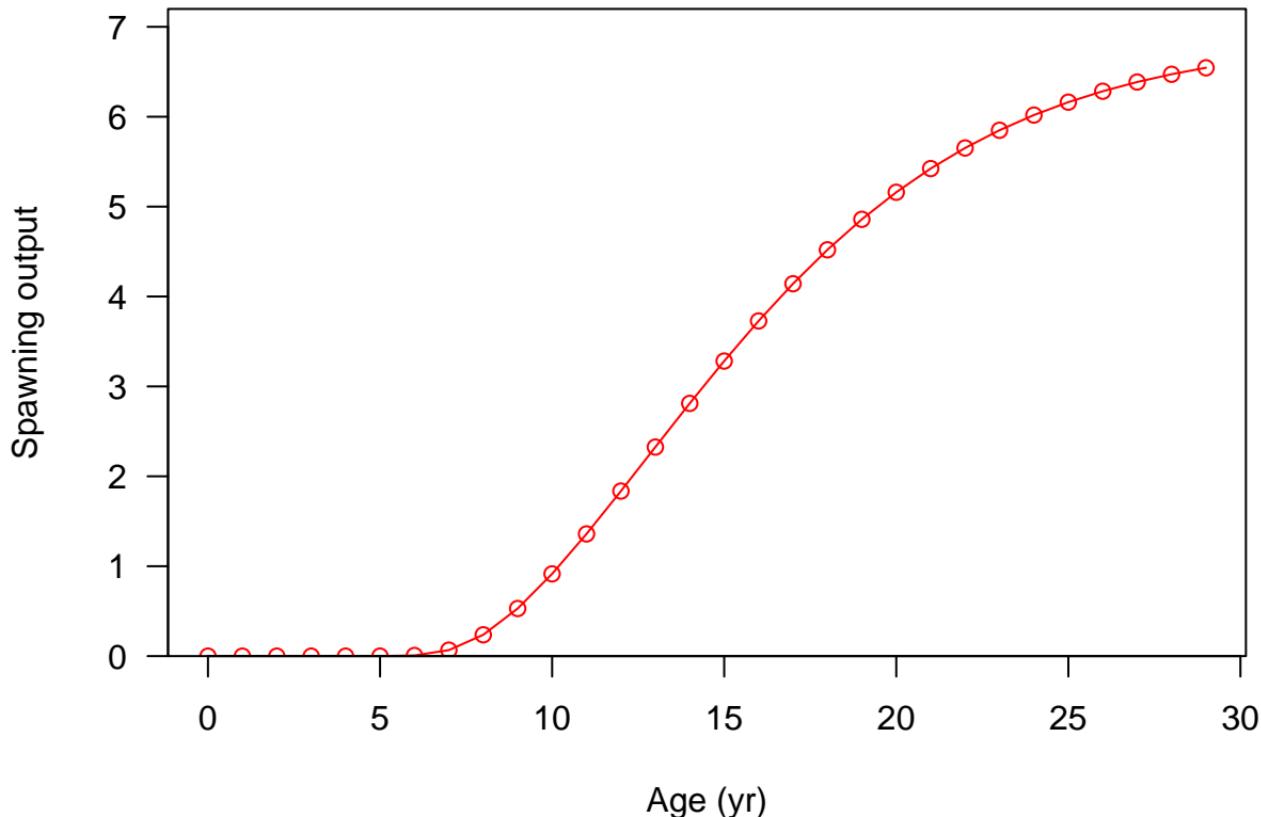




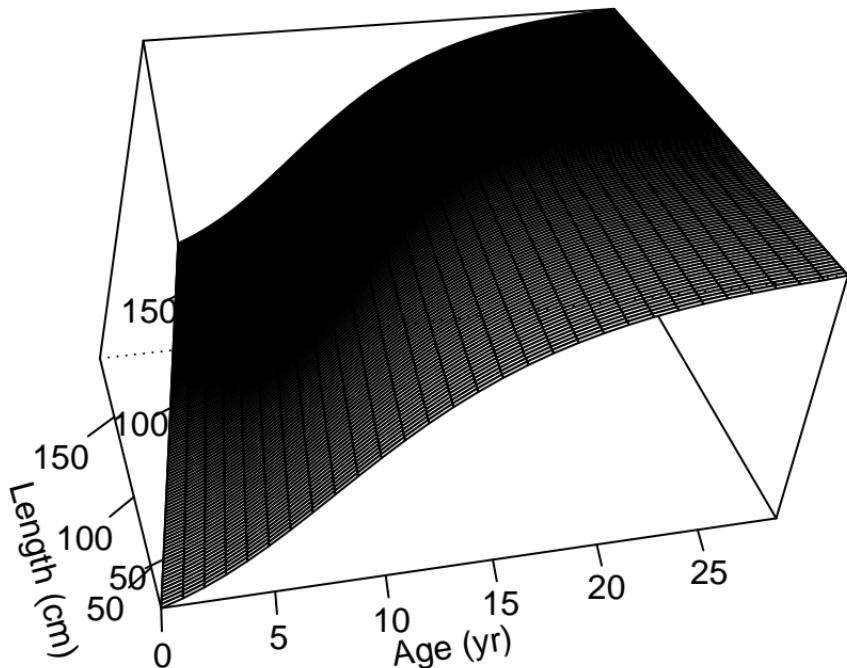




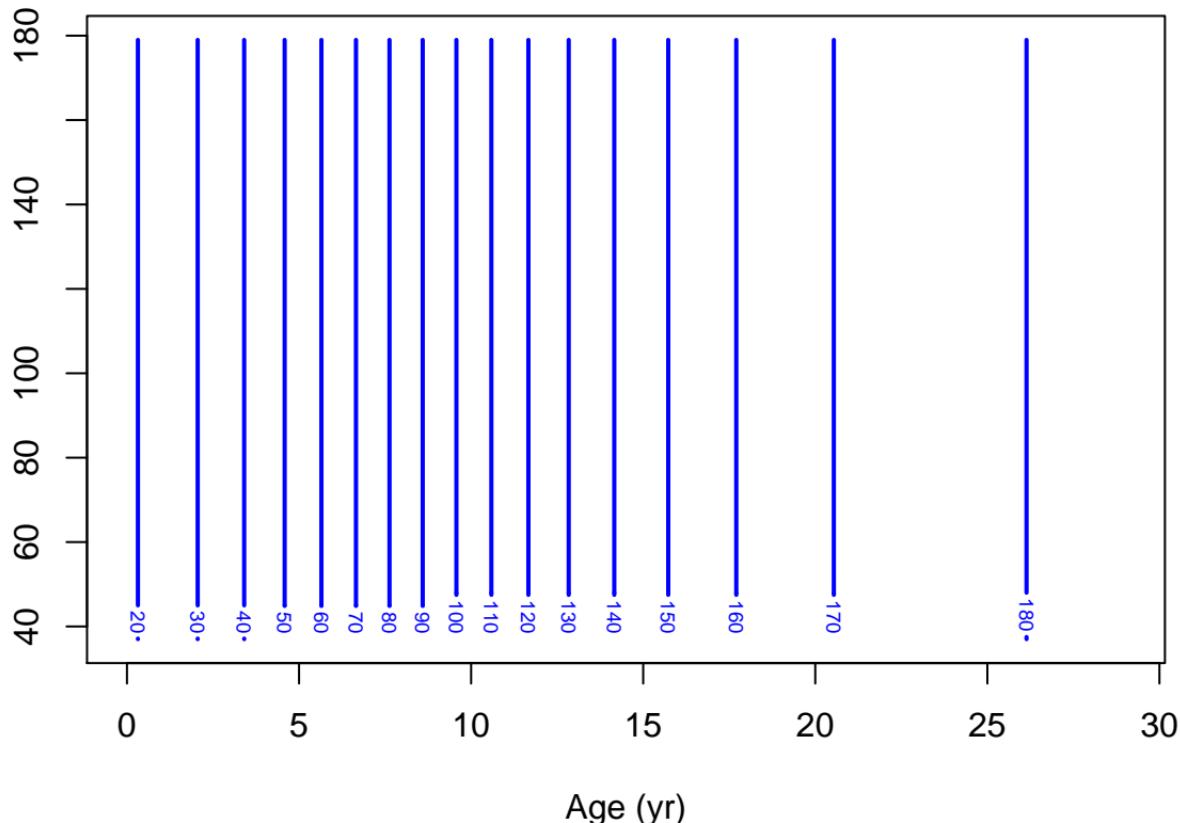




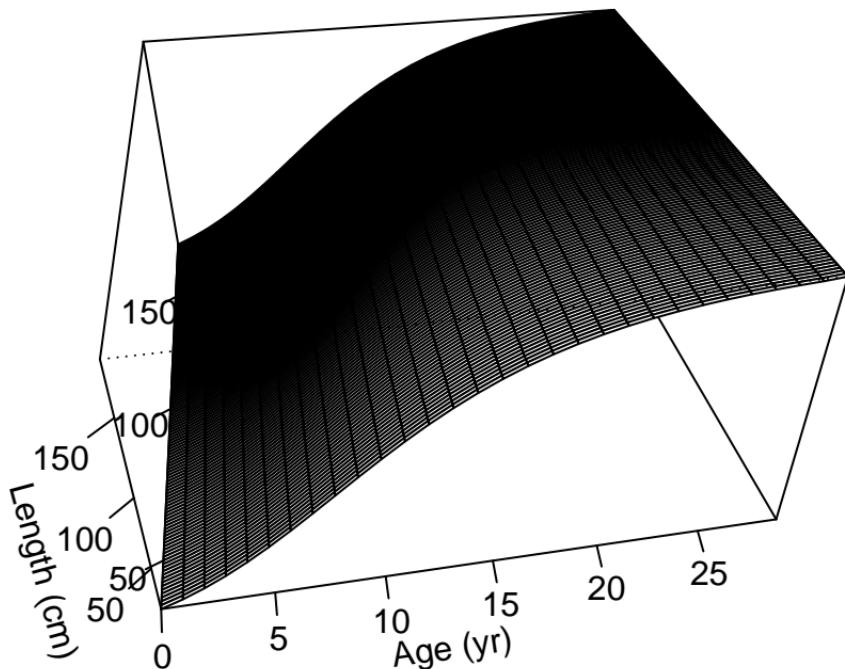
## Female time-varying growth



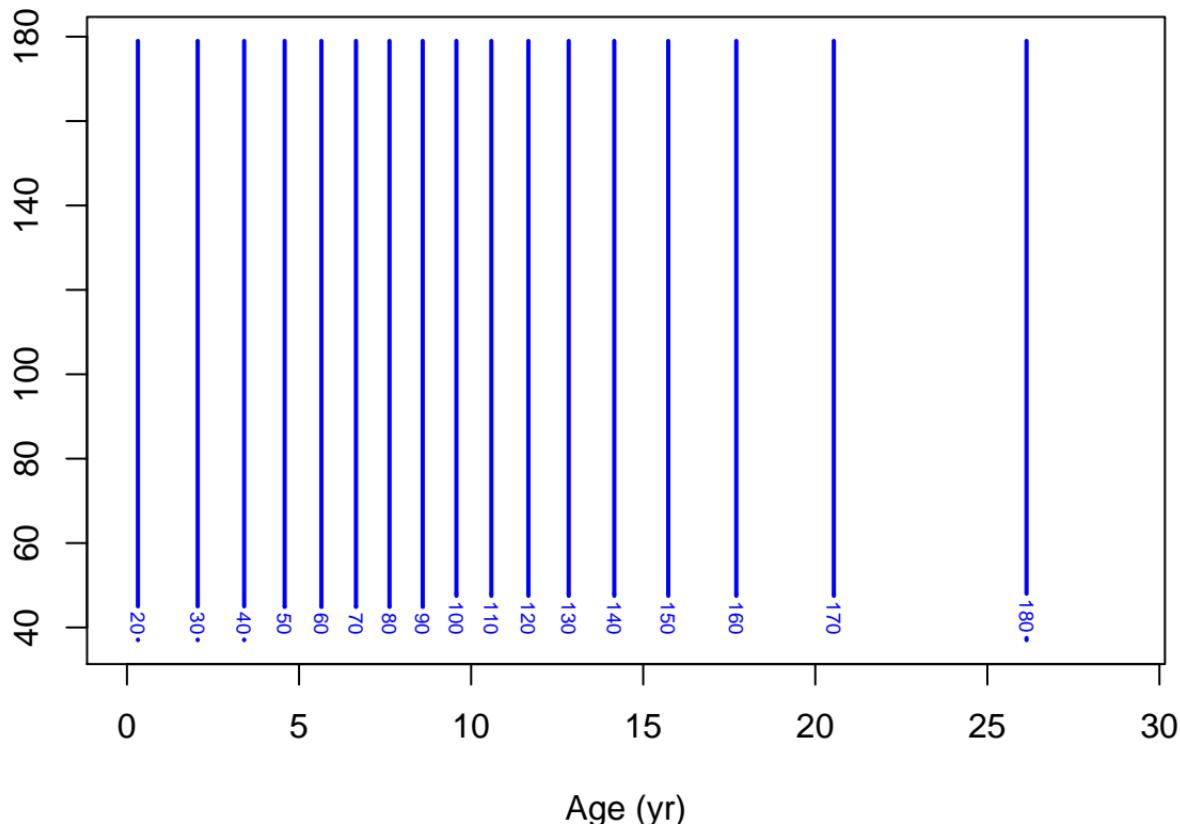
## Female time-varying growth



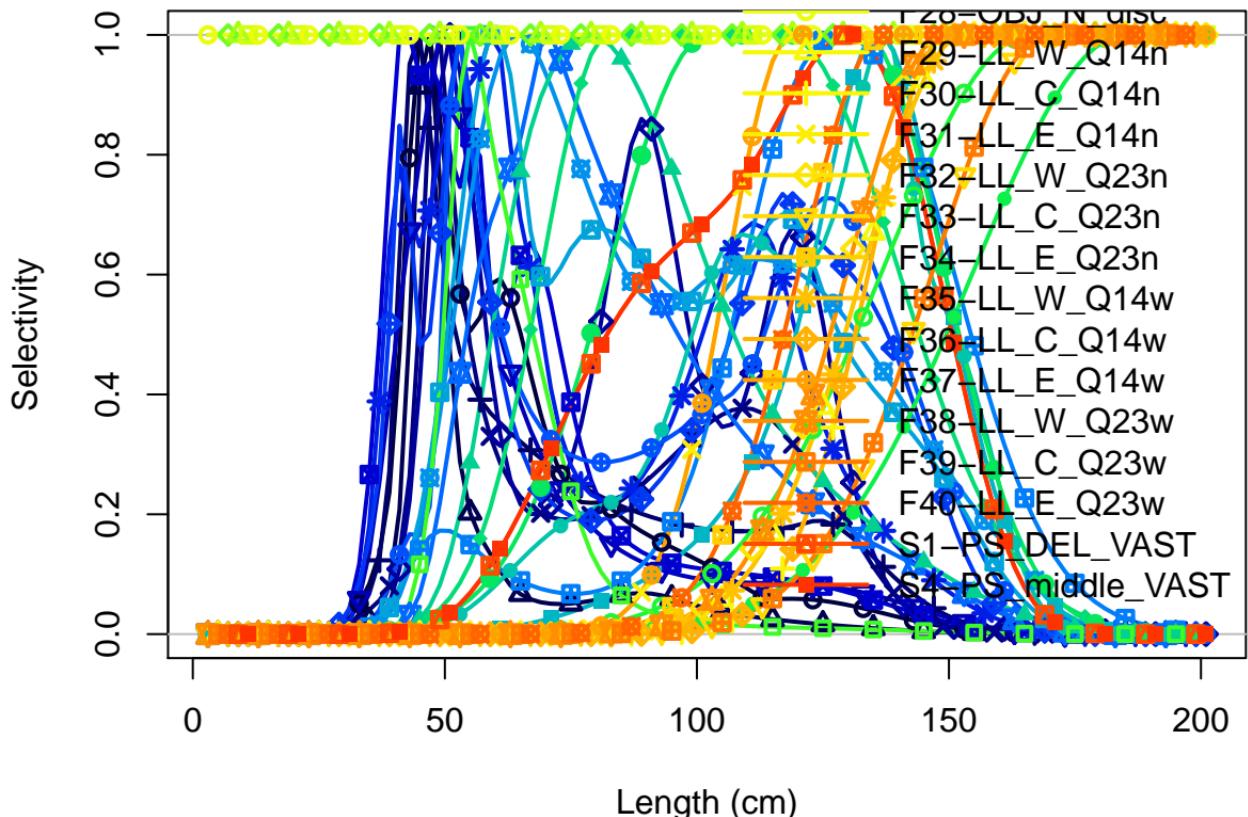
## Male time-varying growth



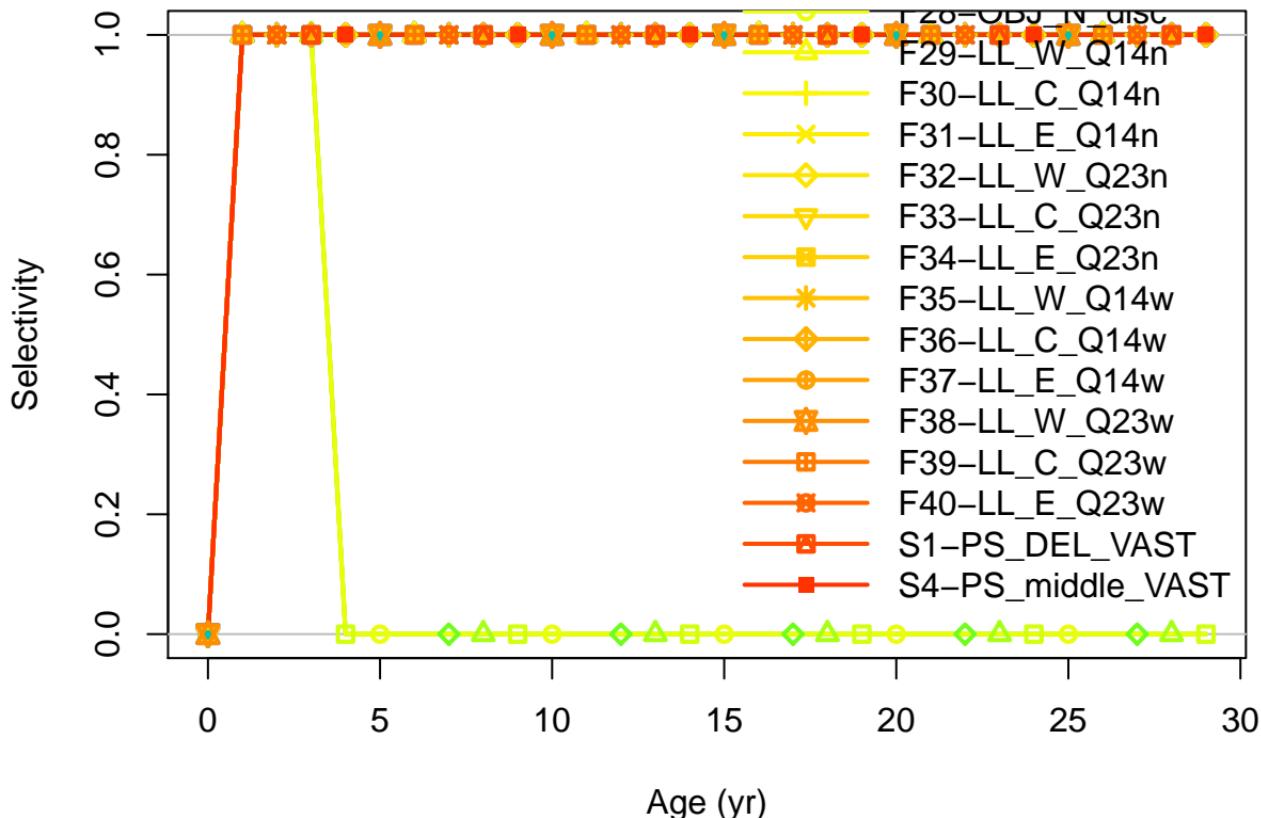
## Male time-varying growth



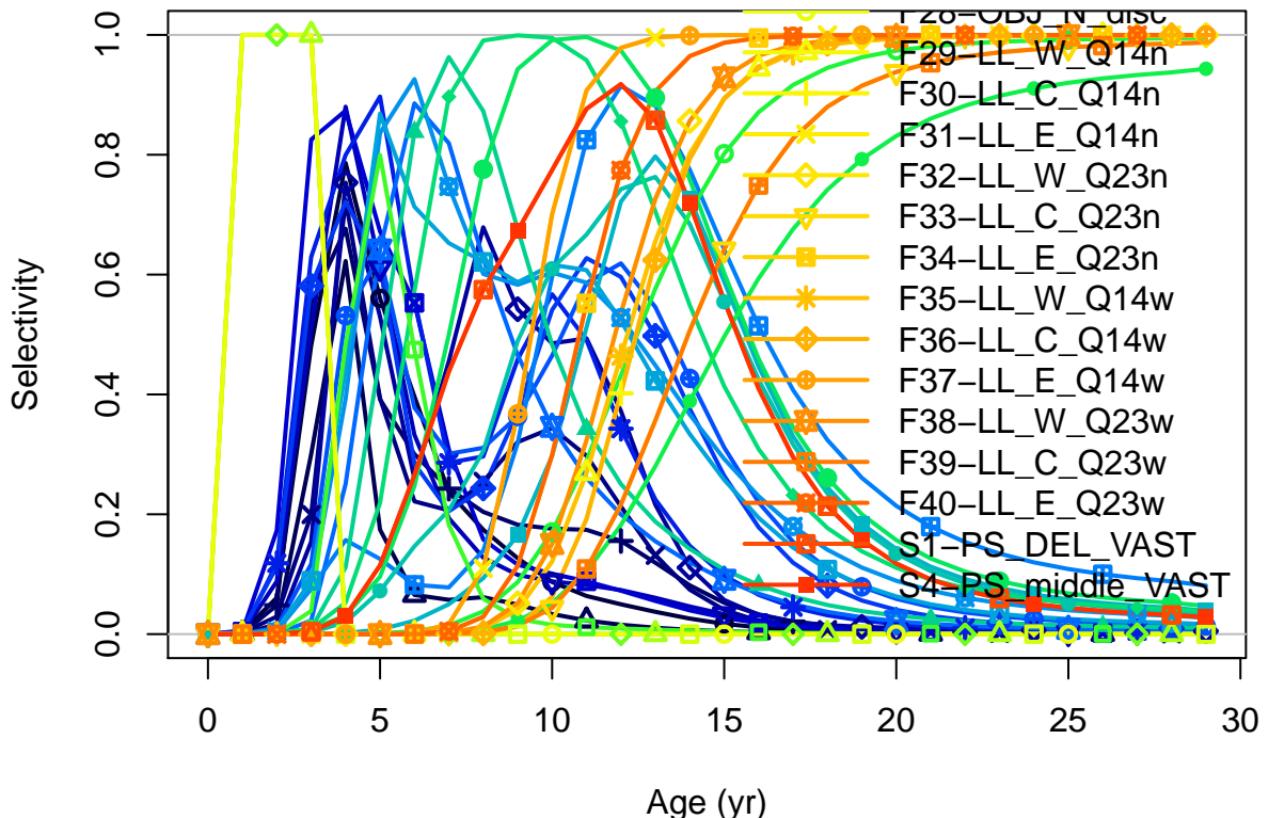
## Length-based selectivity by fleet in 180



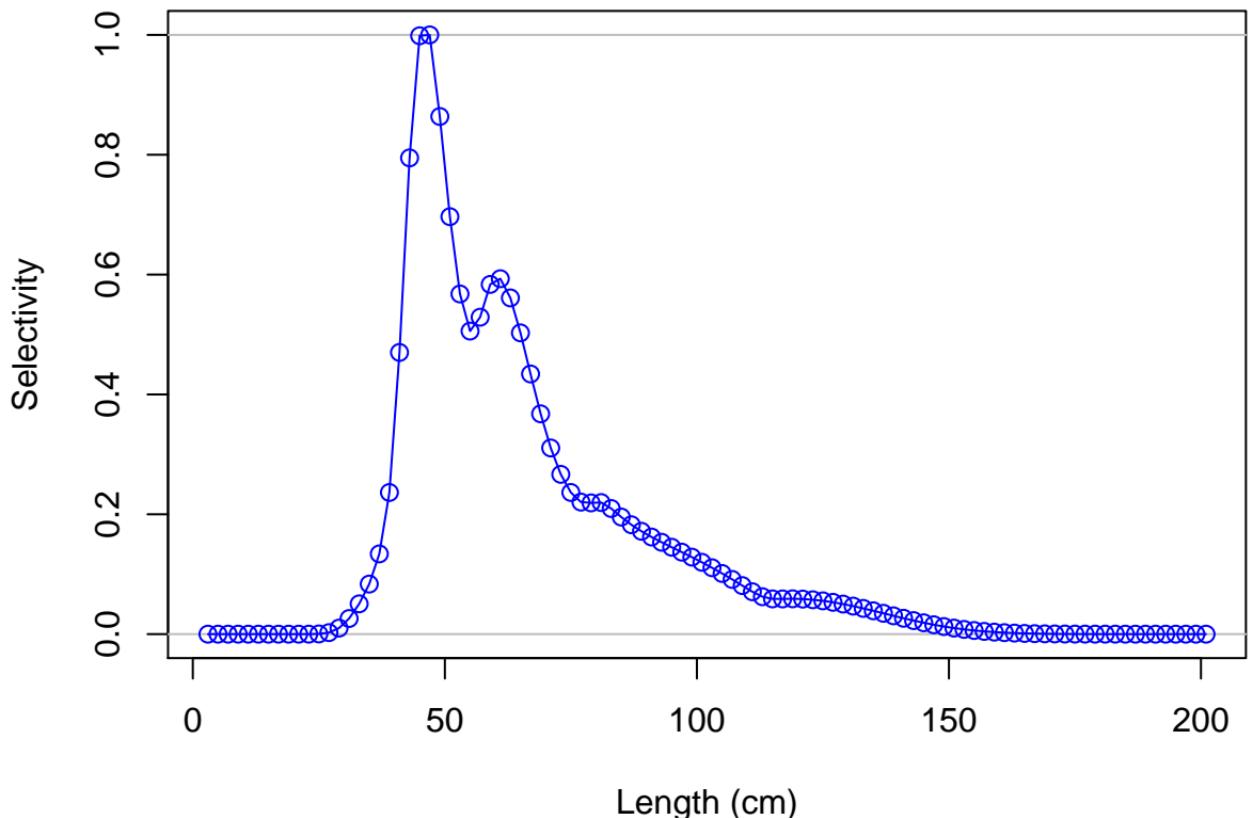
## Age-based selectivity by fleet in 180



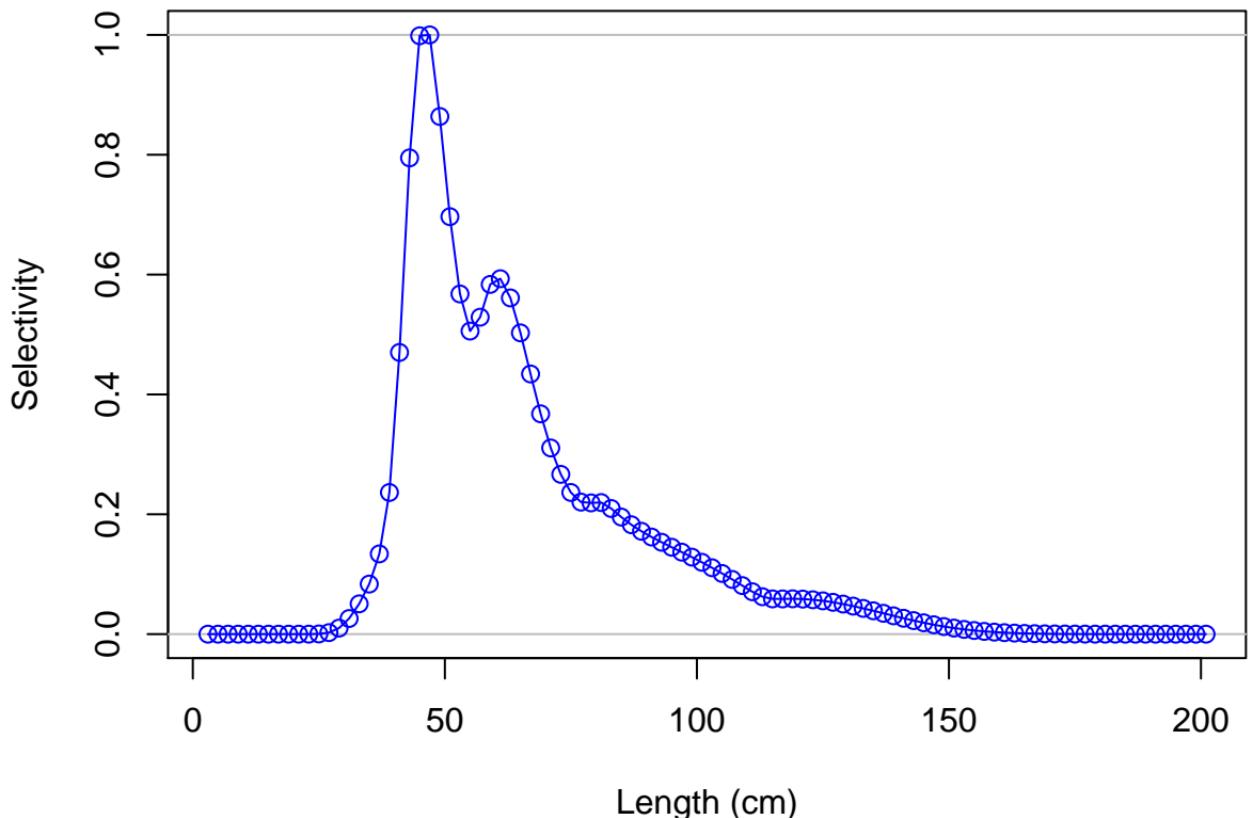
## Derived age-based from length-based selectivity by fleet in 180



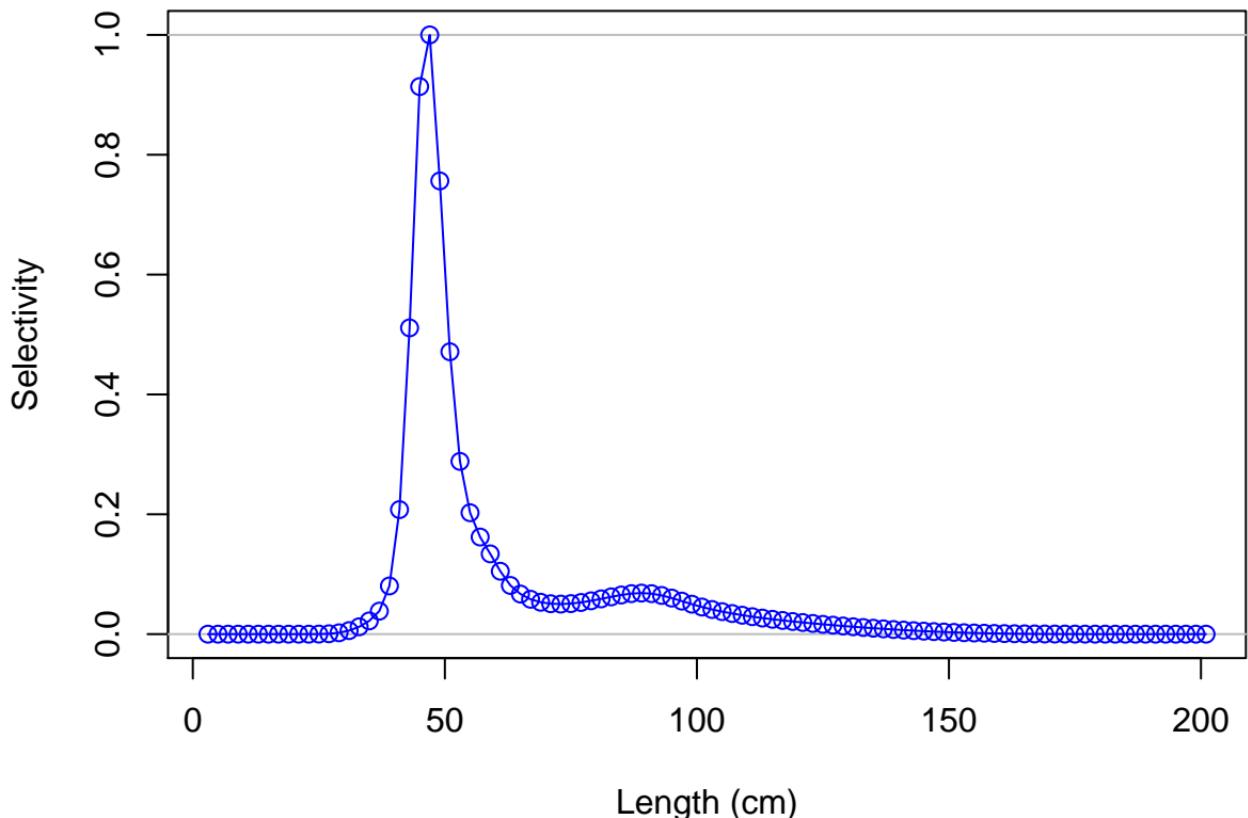
## Female ending year selectivity for F1–OBJ\_N–Q14



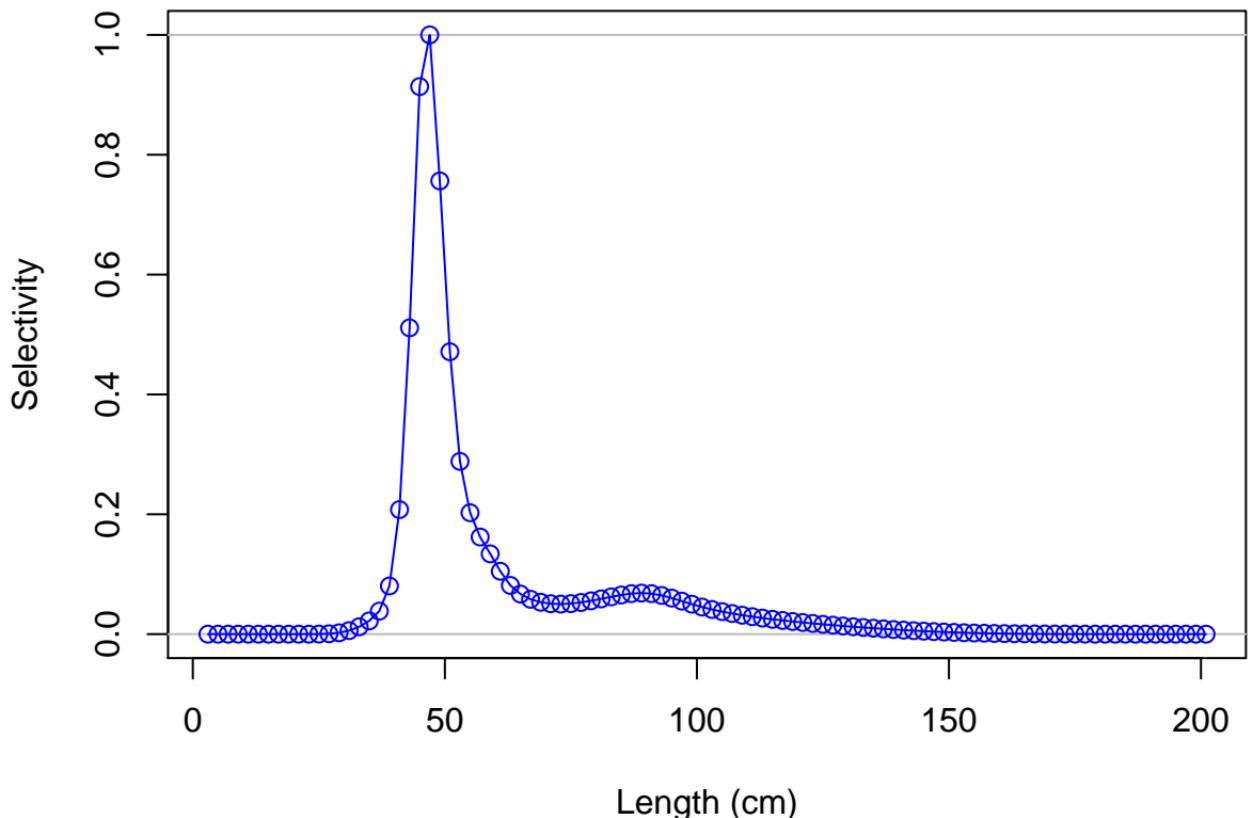
## Male ending year selectivity for F1–OBJ\_N–Q14



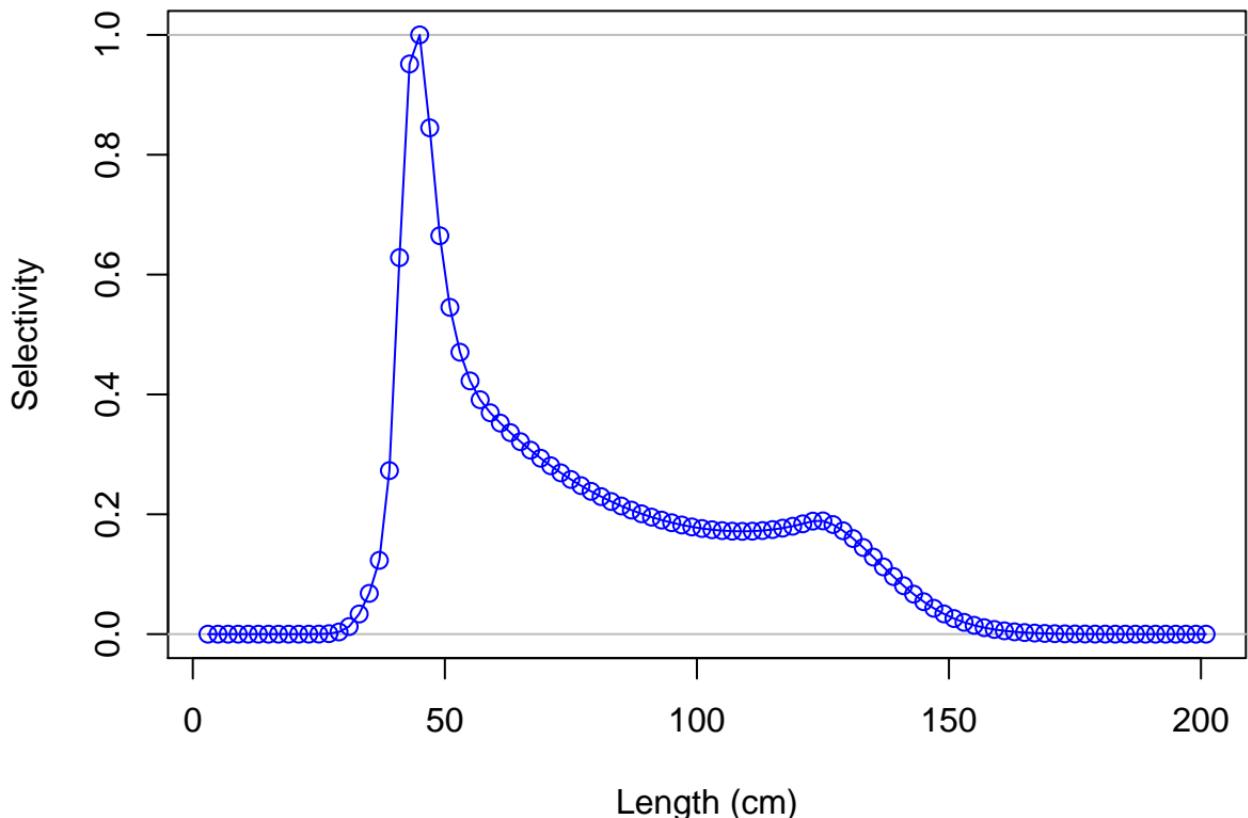
## Female ending year selectivity for F2-OBJ\_Nc\_Q14



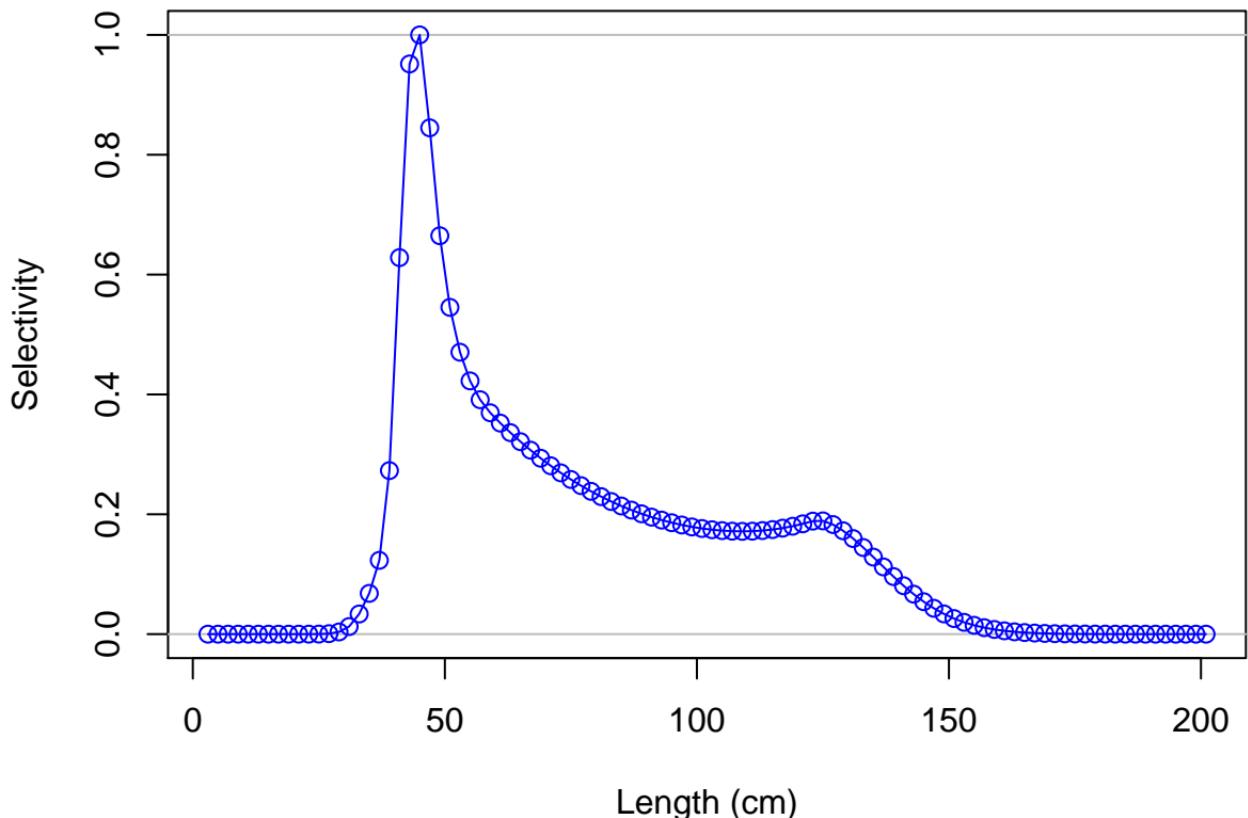
## Male ending year selectivity for F2–OBJ\_Nc\_Q14



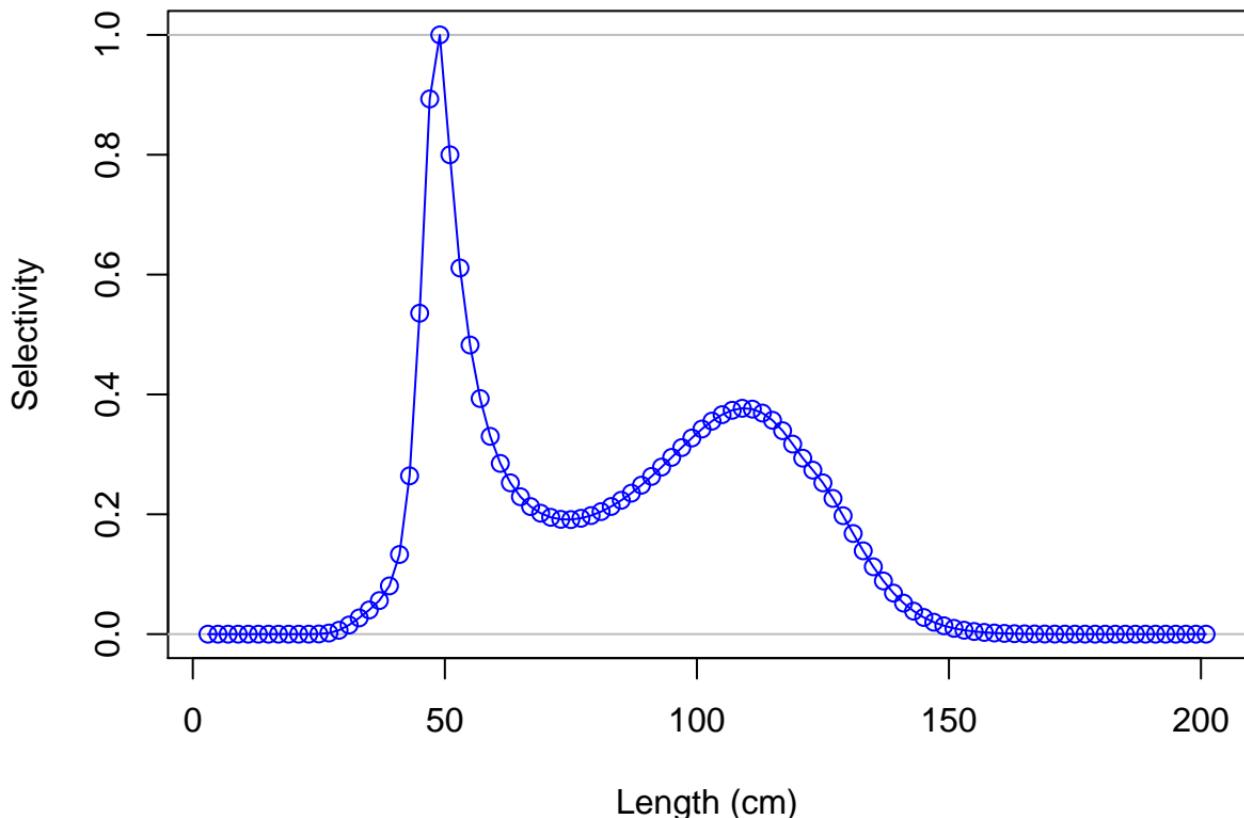
## Female ending year selectivity for F3–OBJ\_C\_Q14



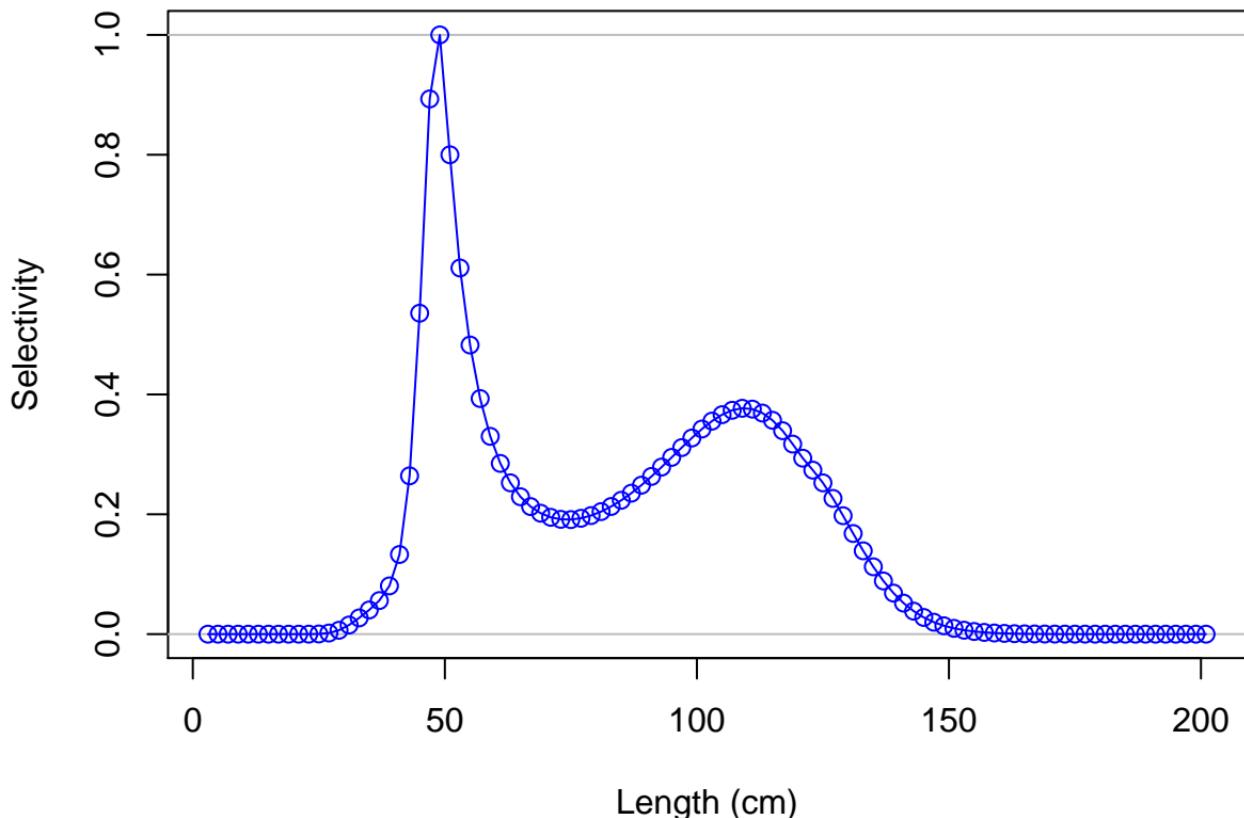
### Male ending year selectivity for F3–OBJ\_C\_Q14



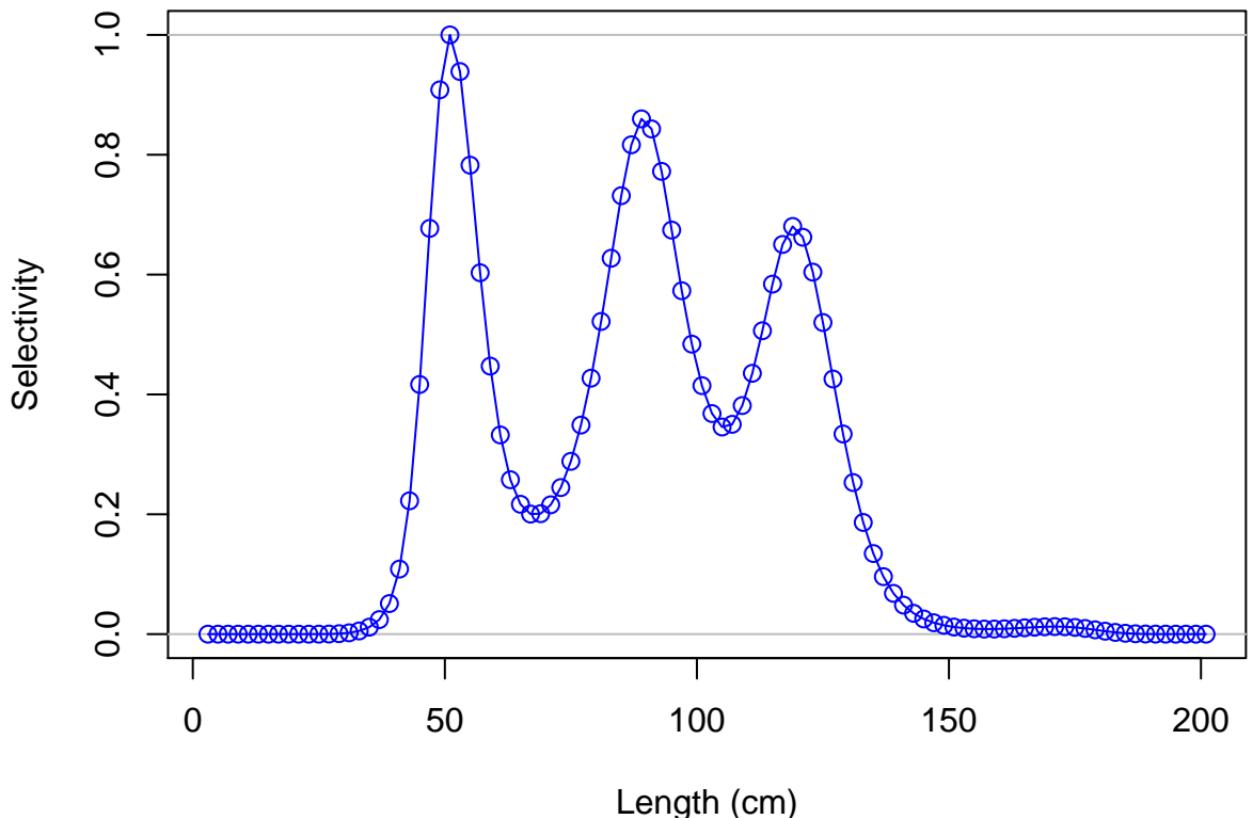
## Female ending year selectivity for F4-OBJ\_Cc\_Q14



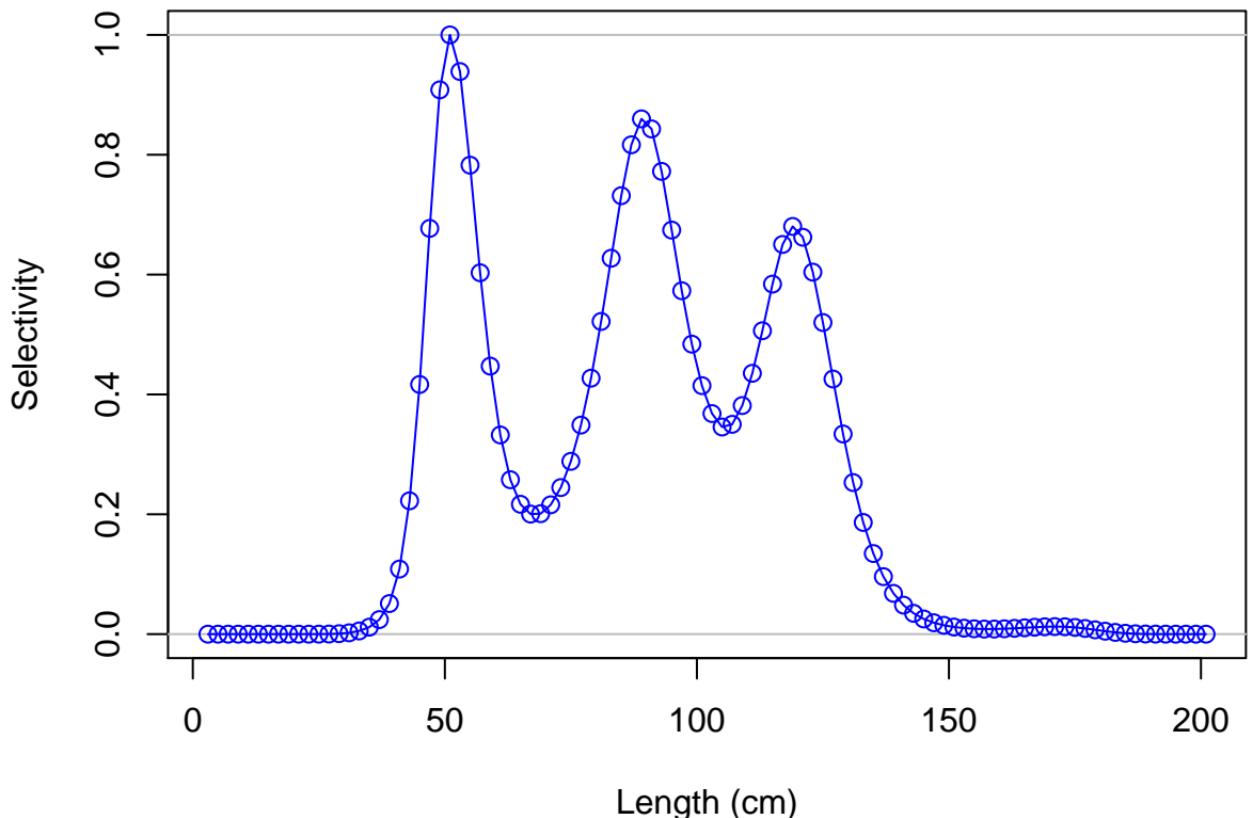
## Male ending year selectivity for F4–OBJ\_Cc\_Q14



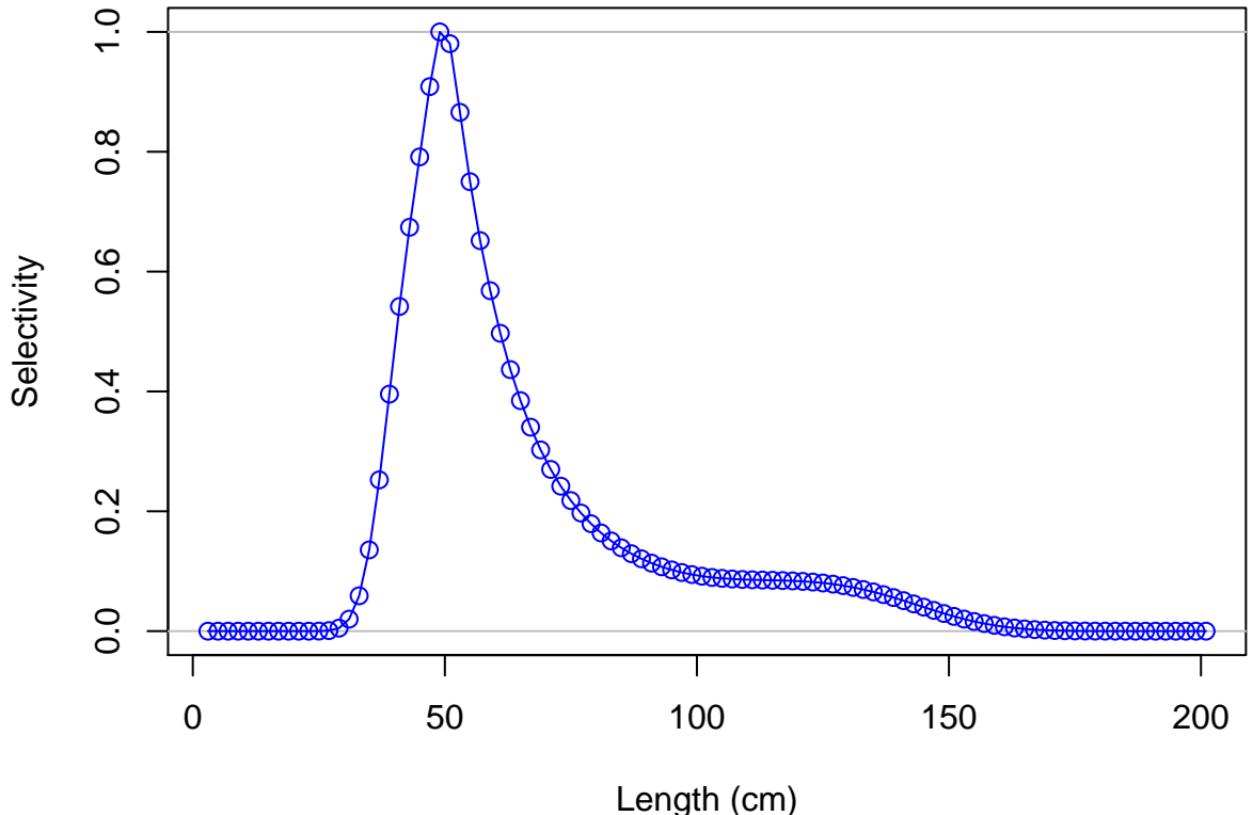
## Female ending year selectivity for F5–OBJ\_S\_Q14



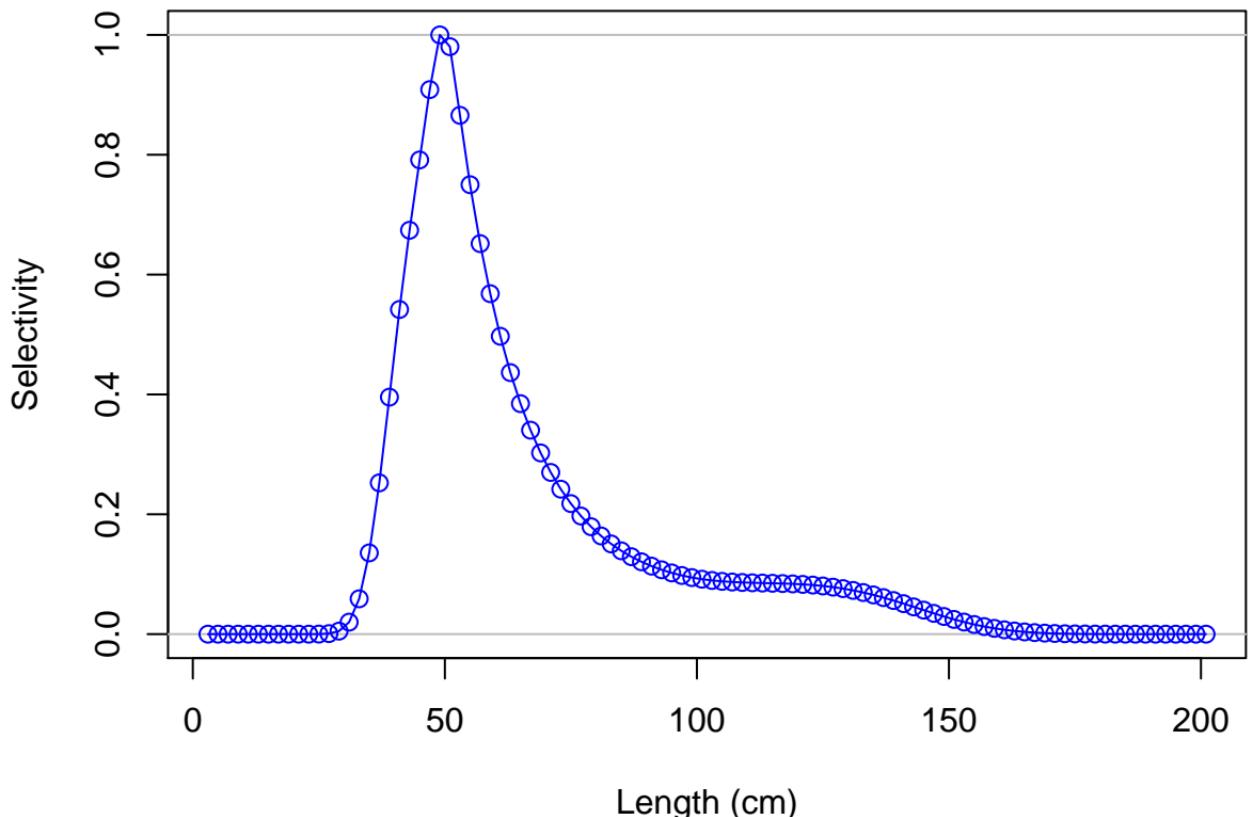
## Male ending year selectivity for F5–OBJ\_S\_Q14



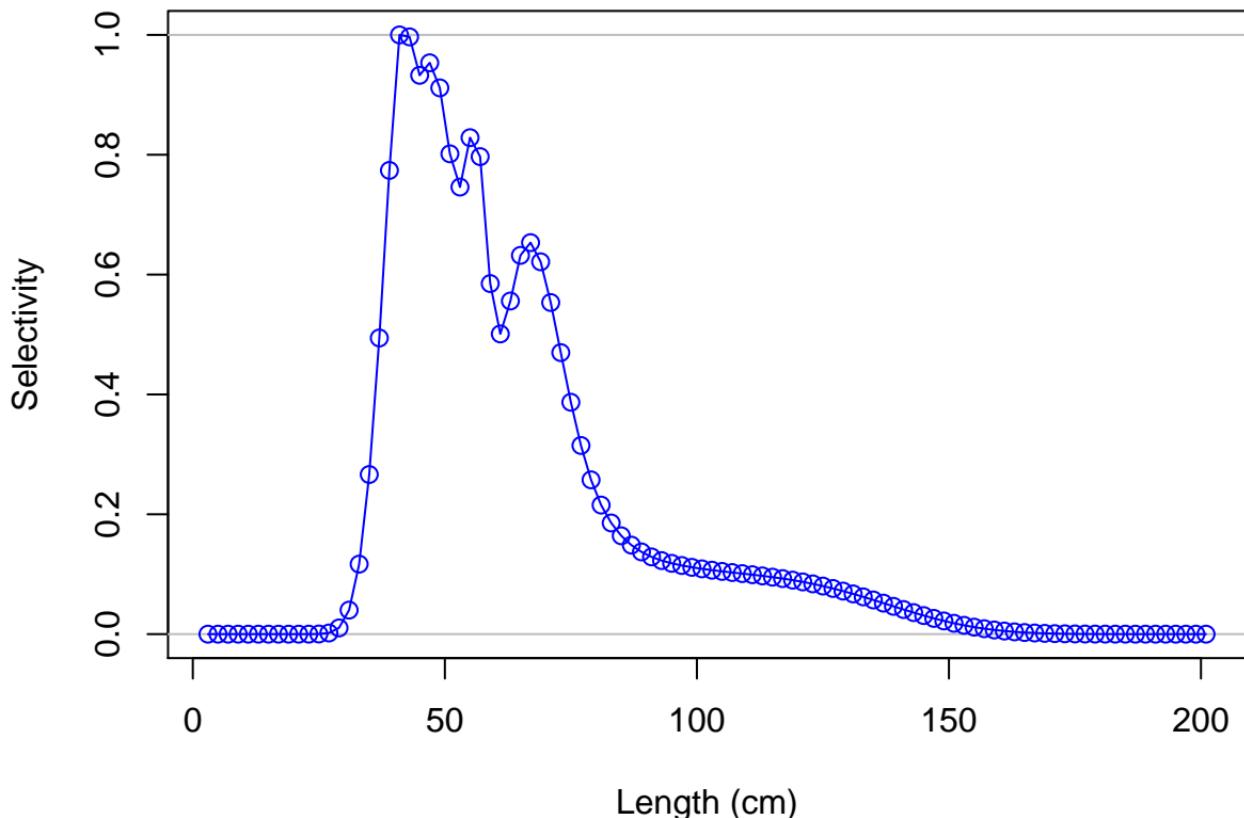
## Female ending year selectivity for F6–OBJ\_N\_Q23



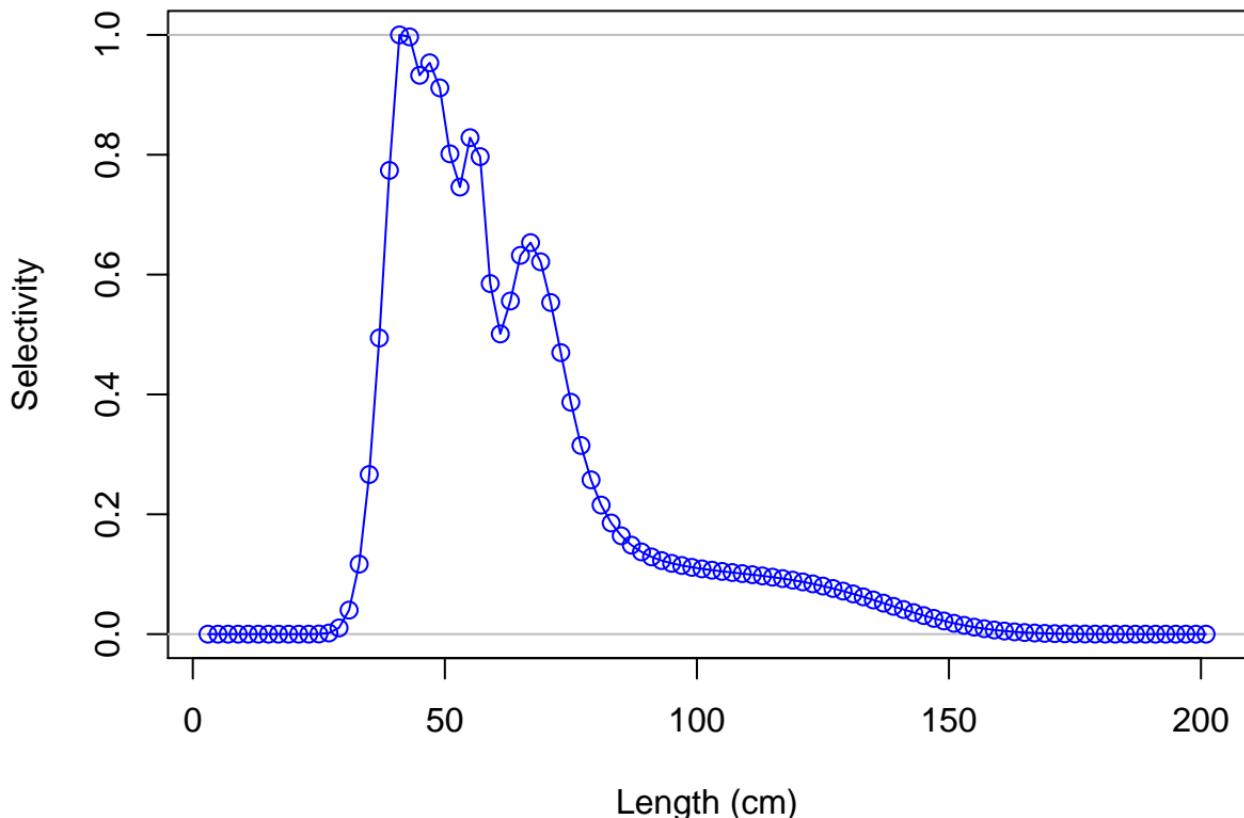
## Male ending year selectivity for F6–OBJ\_N\_Q23



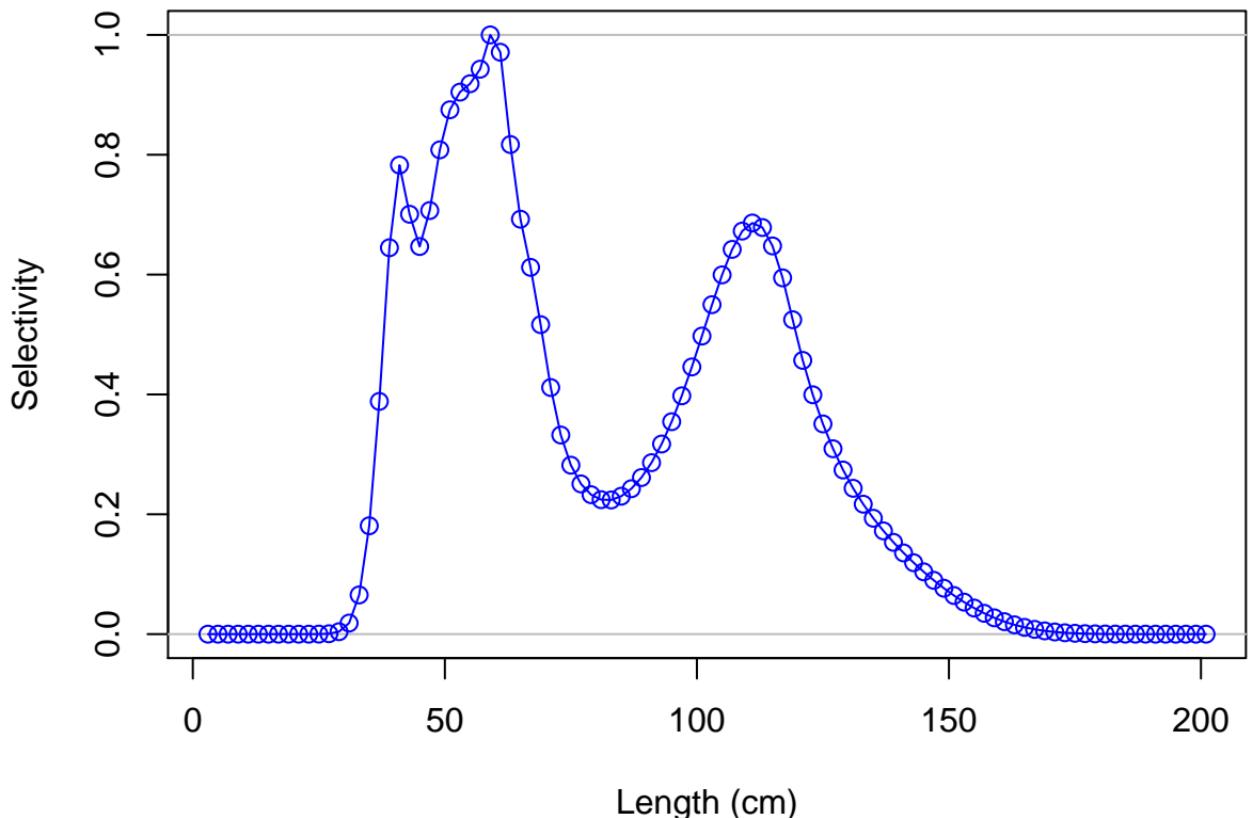
## Female ending year selectivity for F7-OBJ\_Nc\_Q23



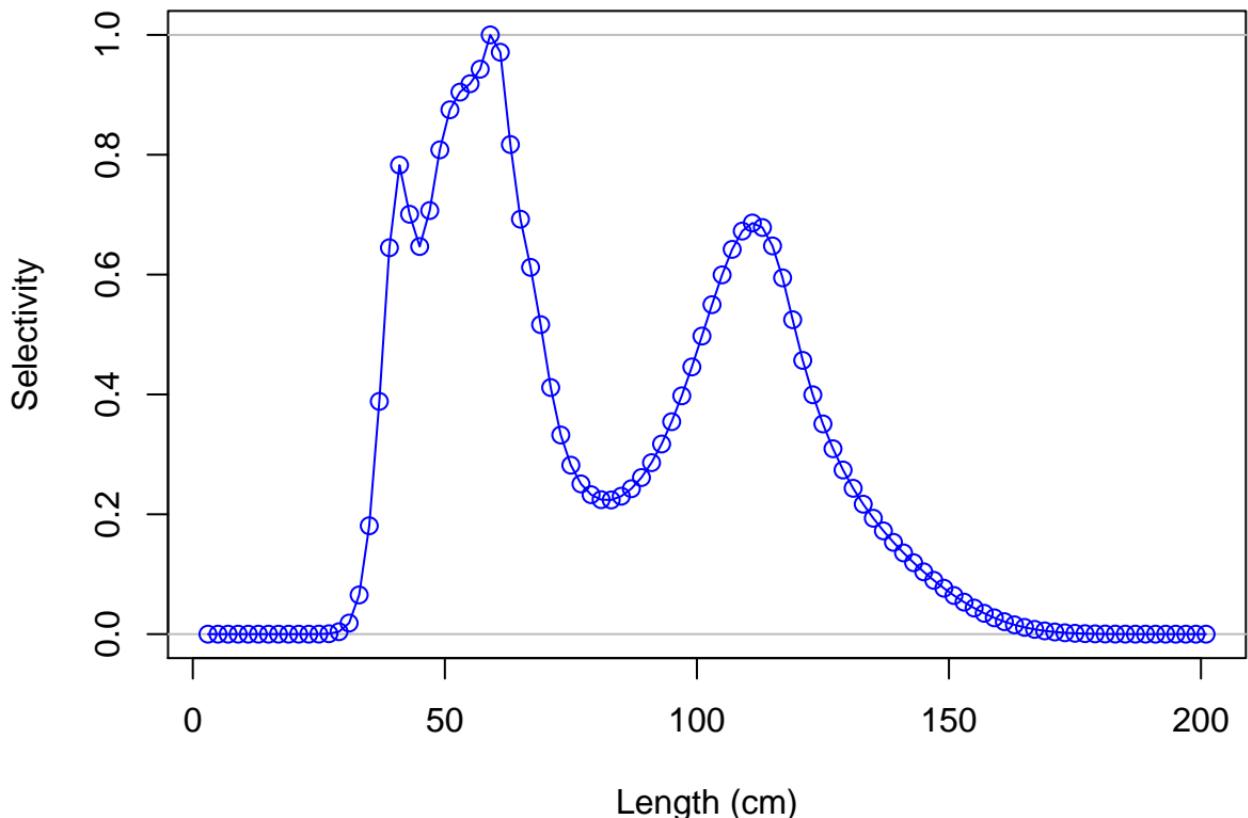
### Male ending year selectivity for F7–OBJ\_Nc\_Q23



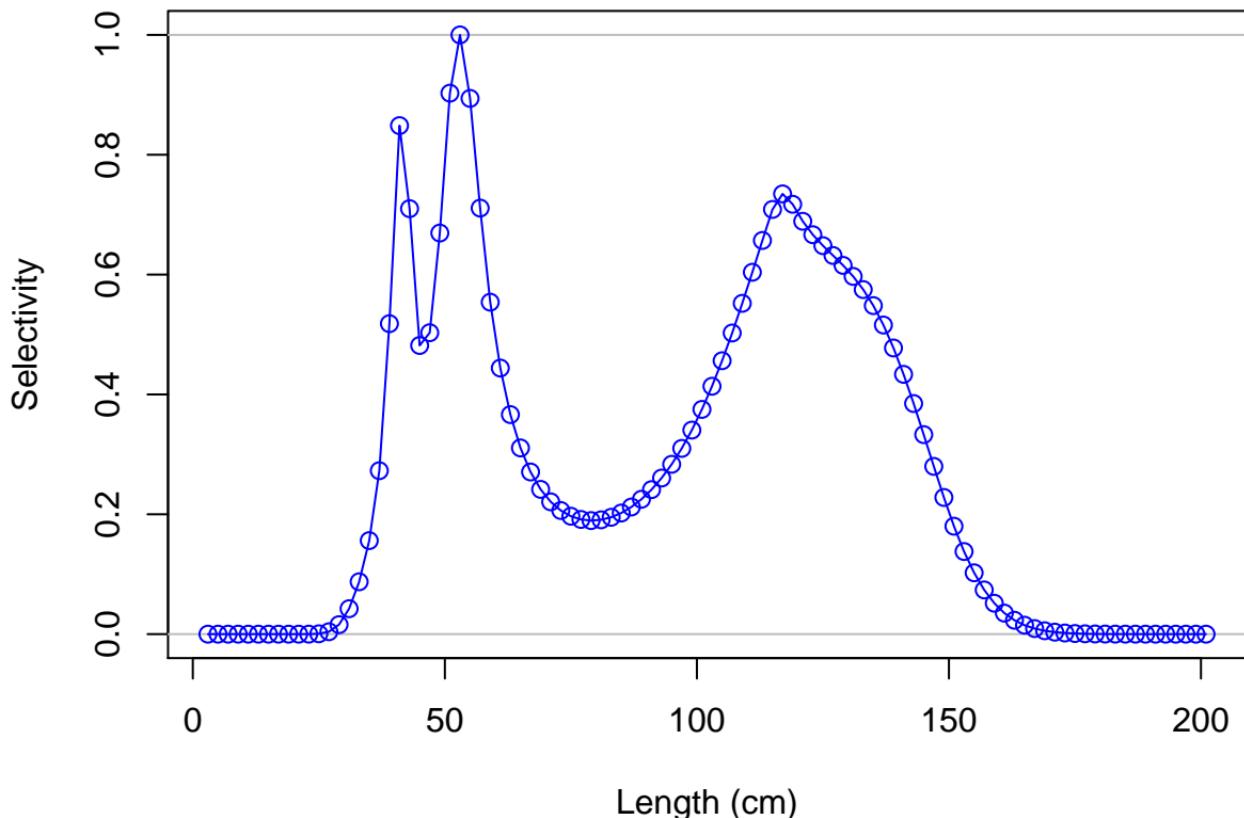
## Female ending year selectivity for F8-OBJ\_C\_Q23



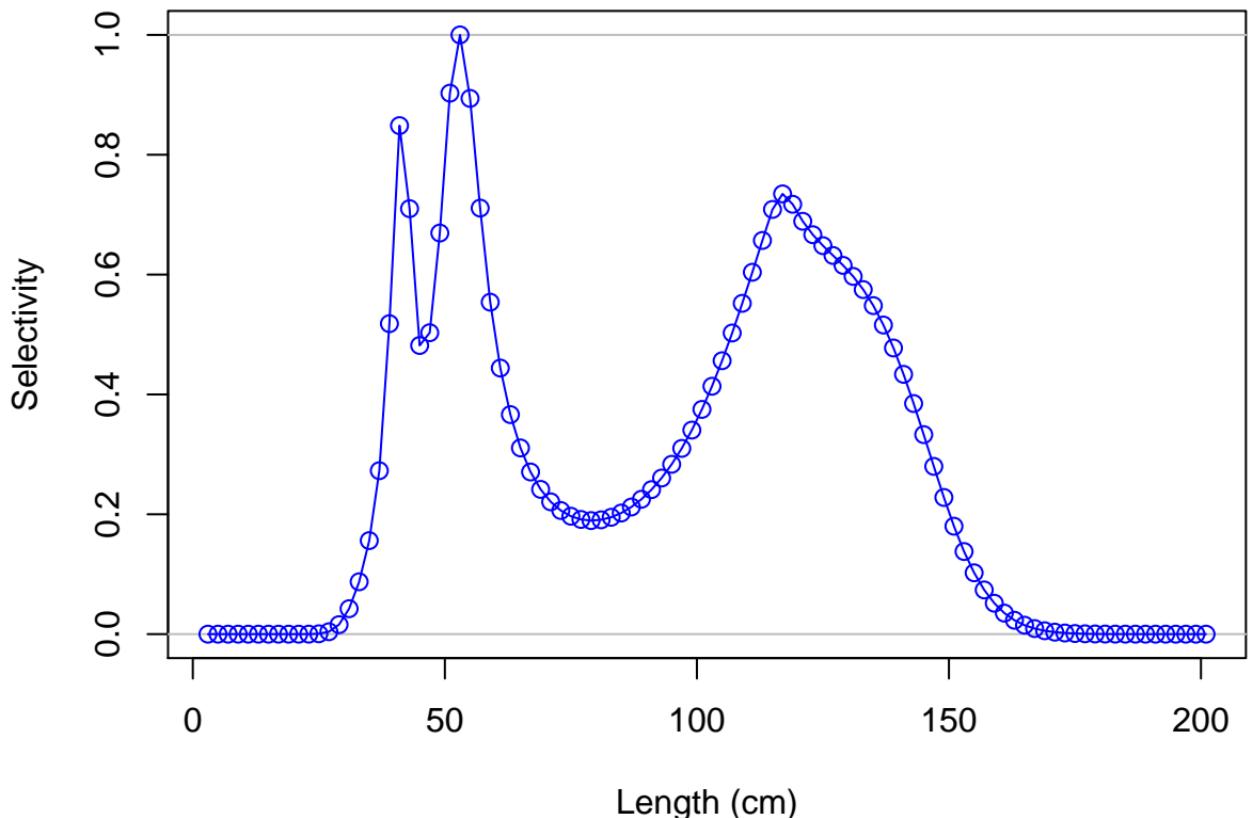
## Male ending year selectivity for F8–OBJ\_C\_Q23



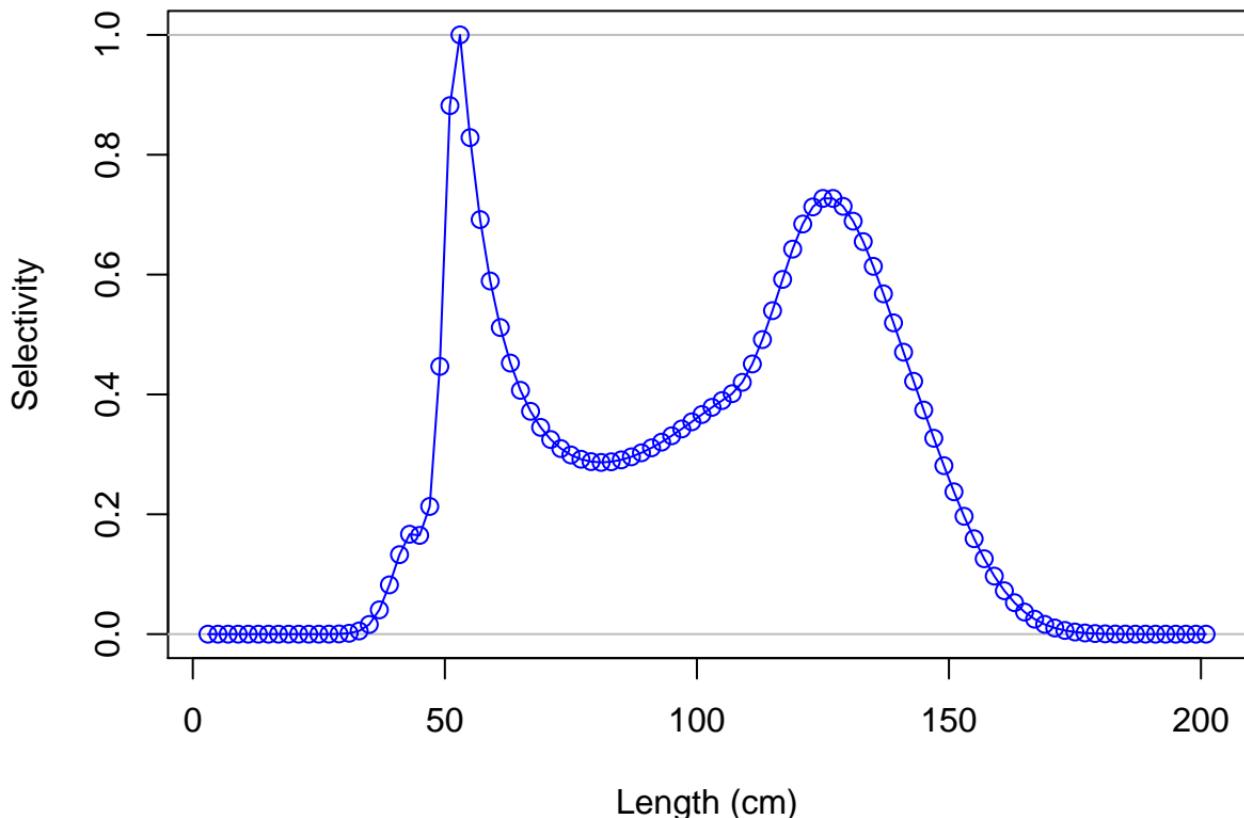
## Female ending year selectivity for F9-OBJ\_Cc\_Q23



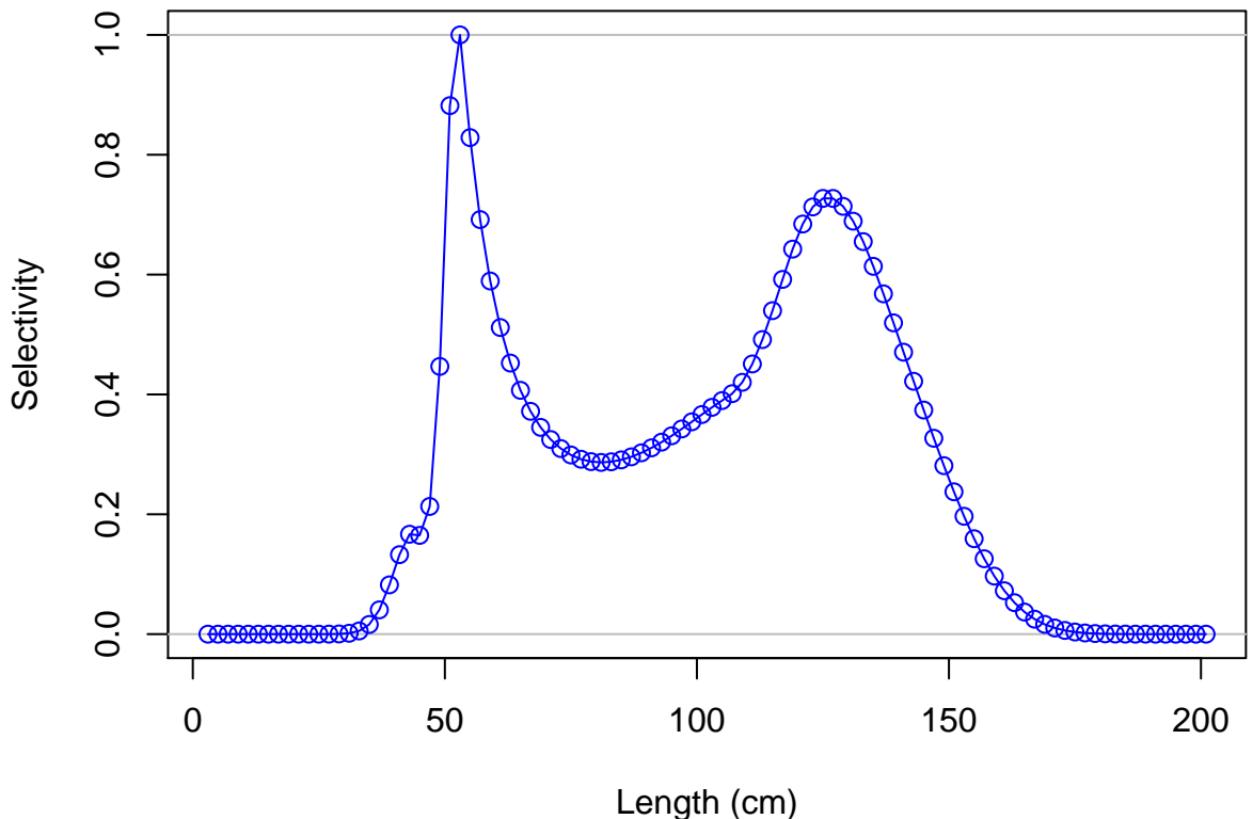
### Male ending year selectivity for F9–OBJ\_Cc\_Q23



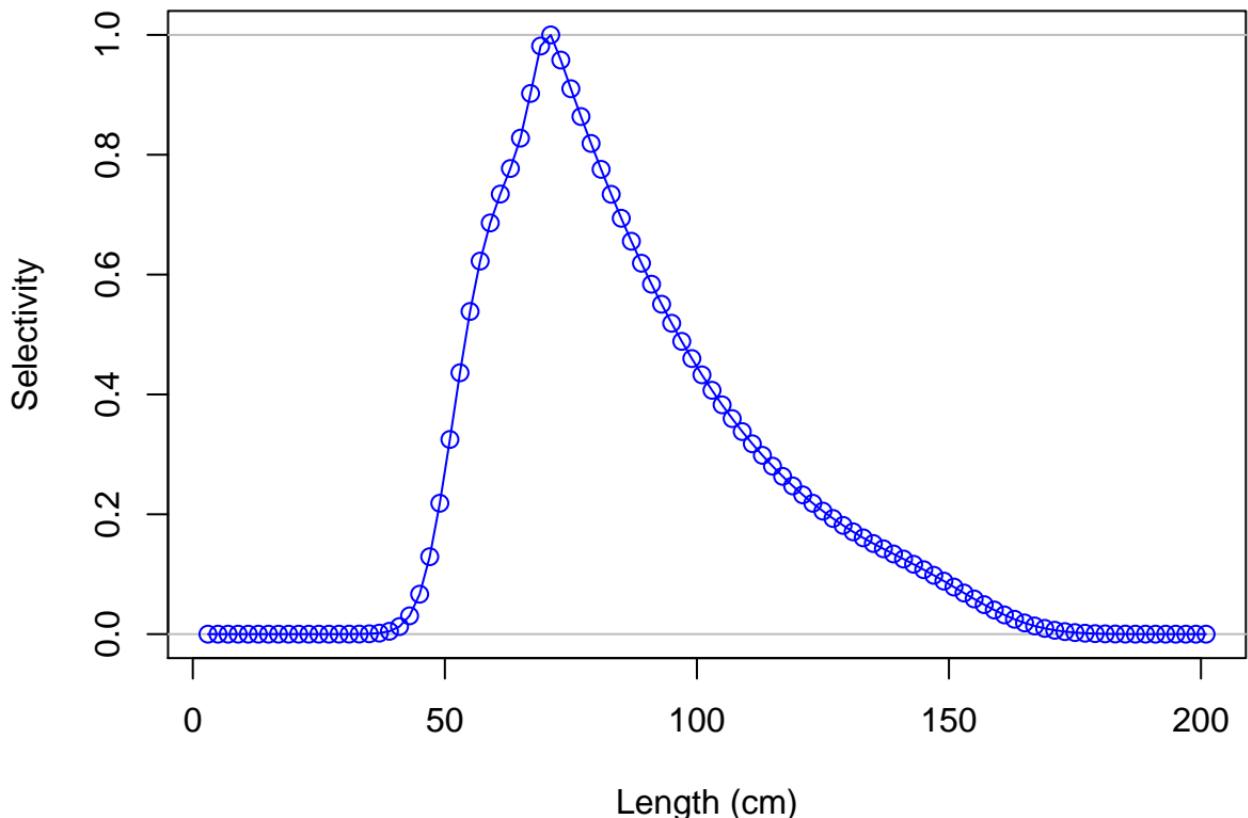
## Female ending year selectivity for F10-OBJ\_S\_Q23



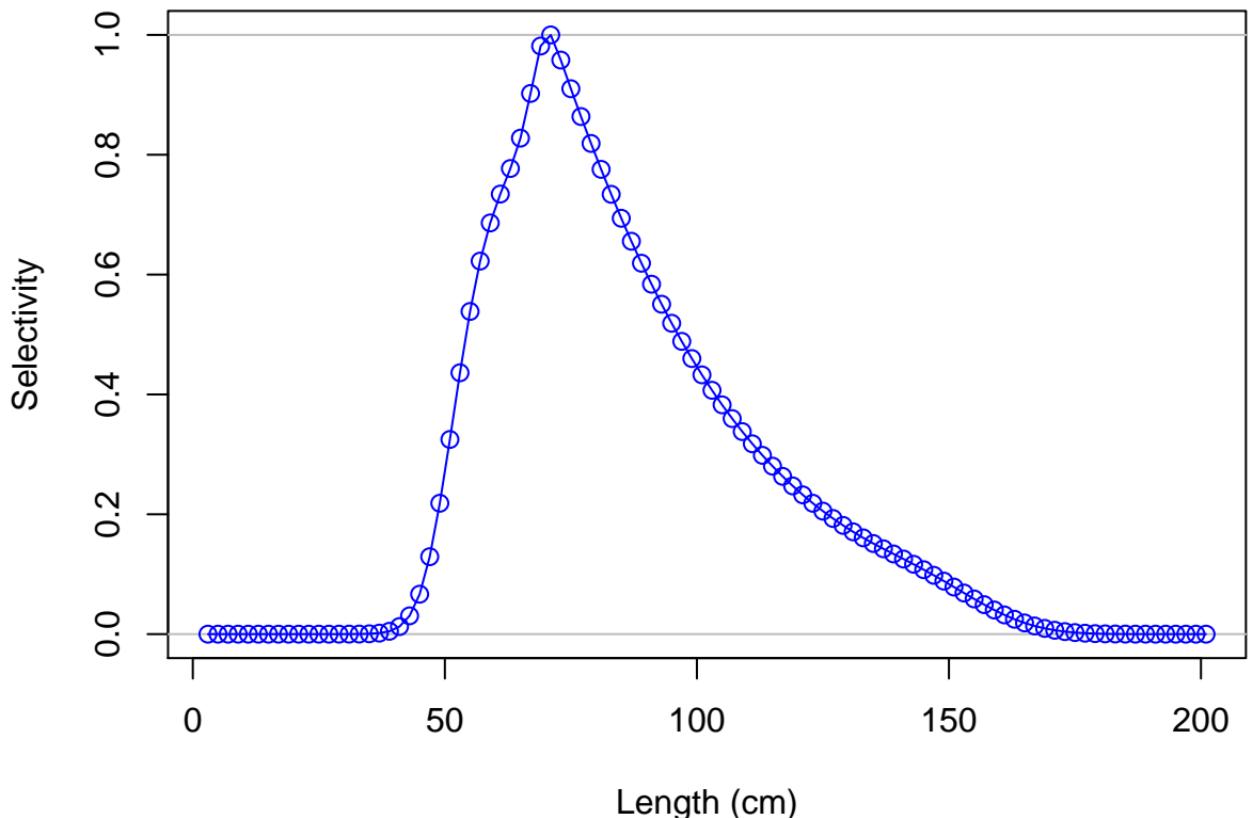
## Male ending year selectivity for F10–OBJ\_S\_Q23



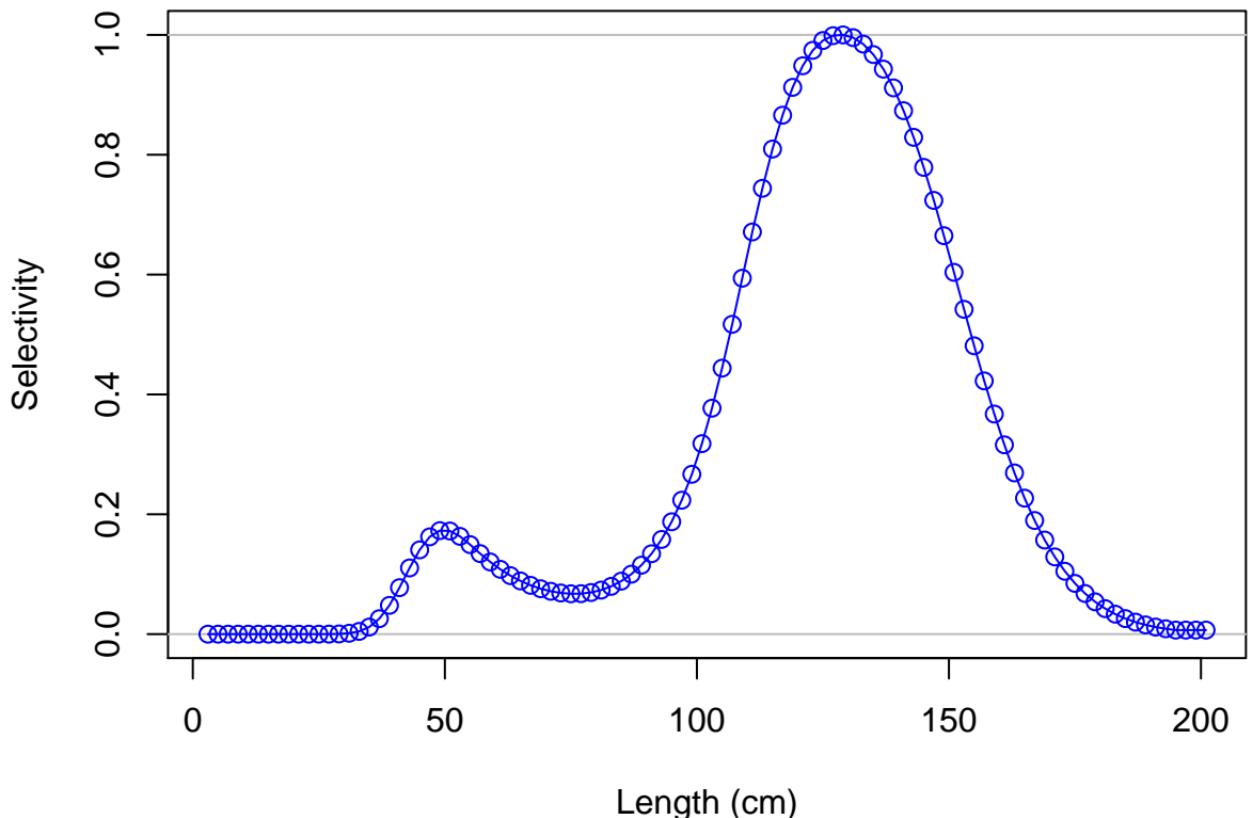
## Female ending year selectivity for F11-NOA\_N



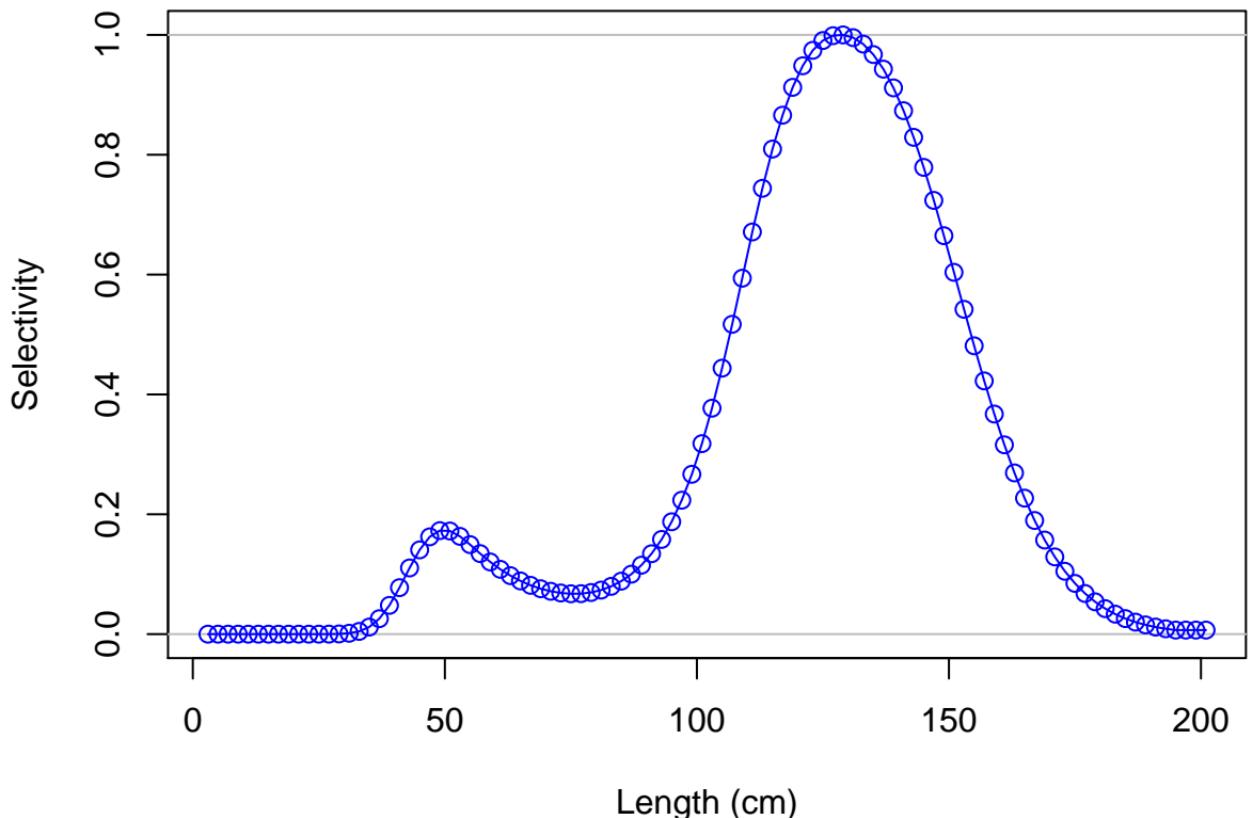
## Male ending year selectivity for F11–NOA\_N



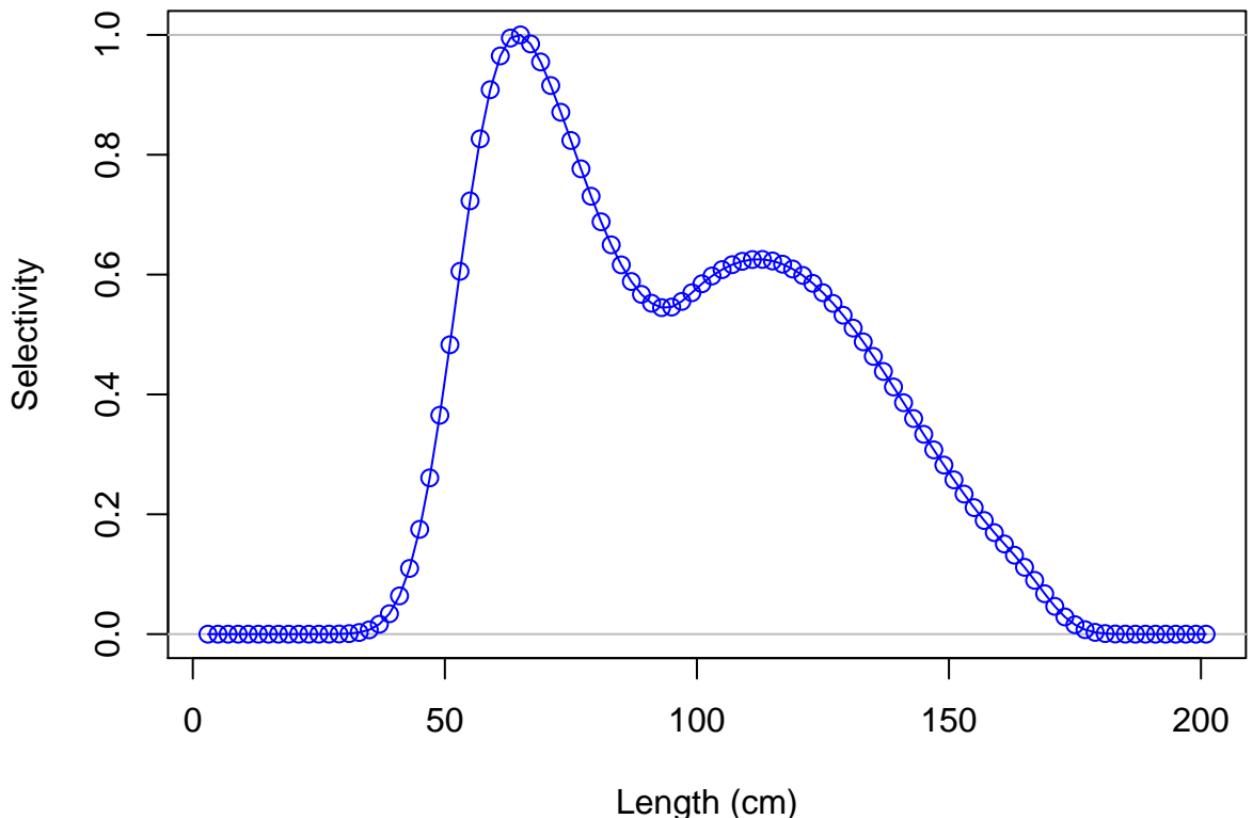
## Female ending year selectivity for F12-NOA\_C



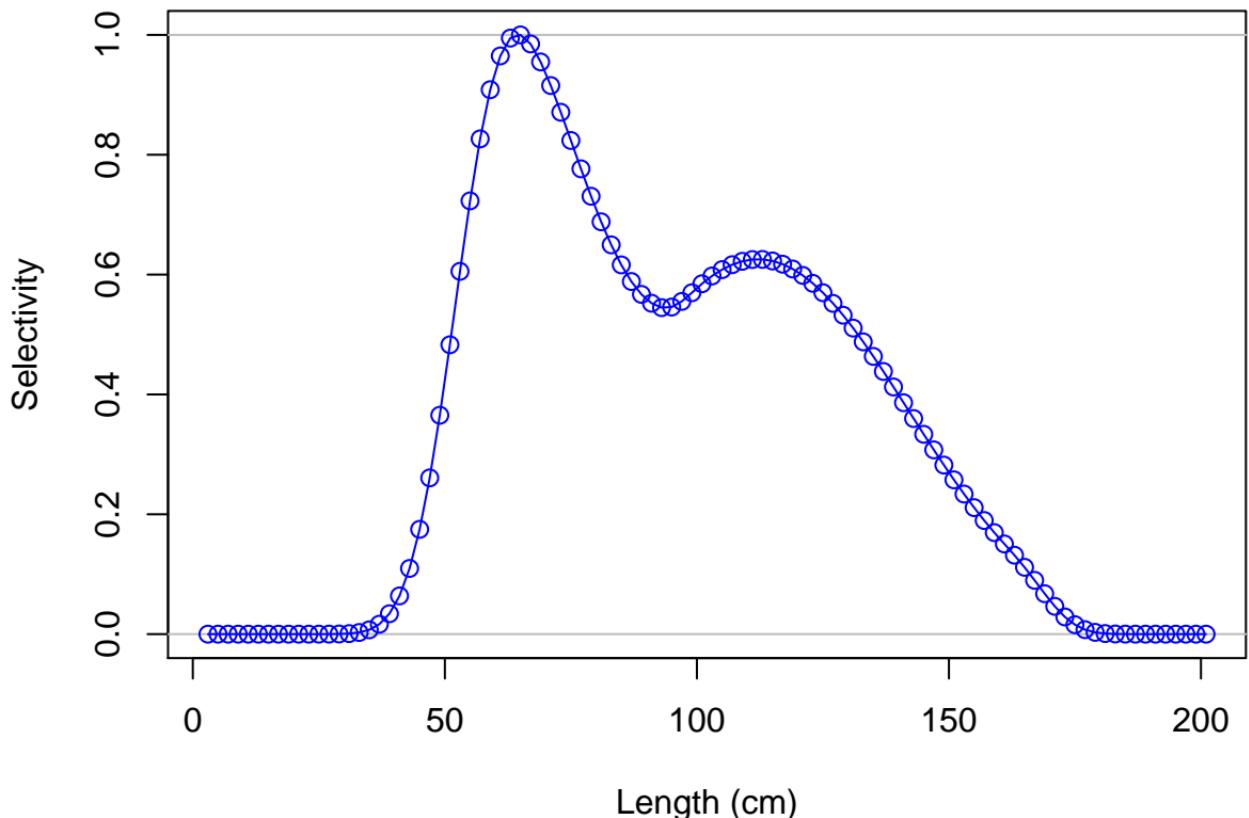
## Male ending year selectivity for F12–NOA\_C



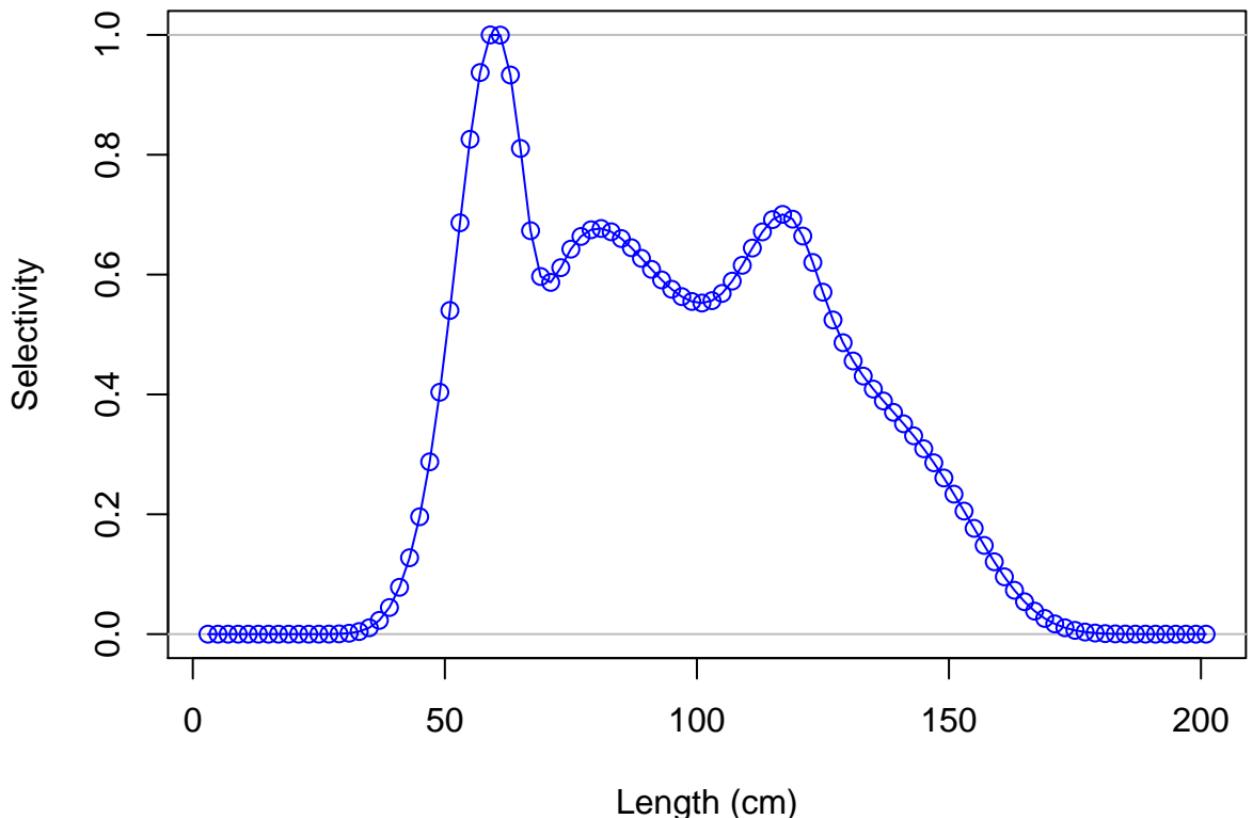
## Female ending year selectivity for F13–NOA\_I



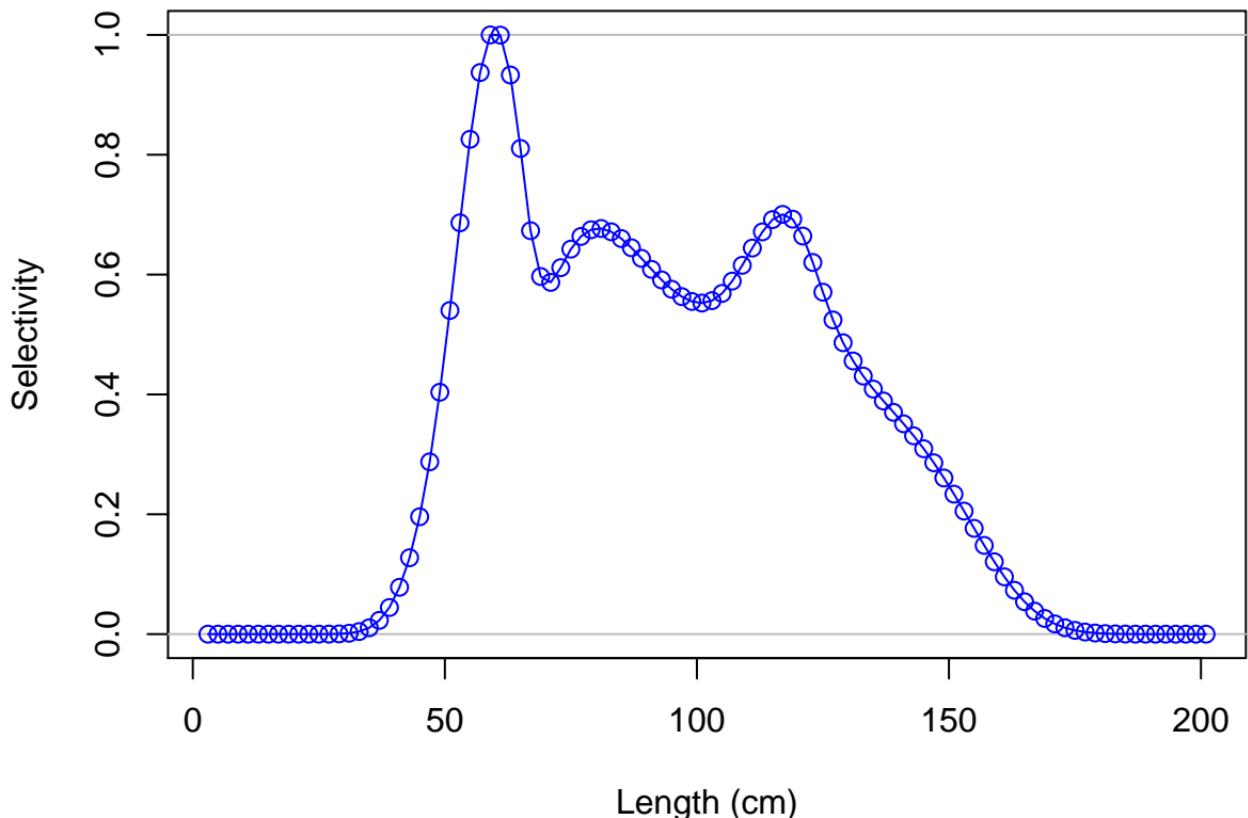
## Male ending year selectivity for F13–NOA\_I



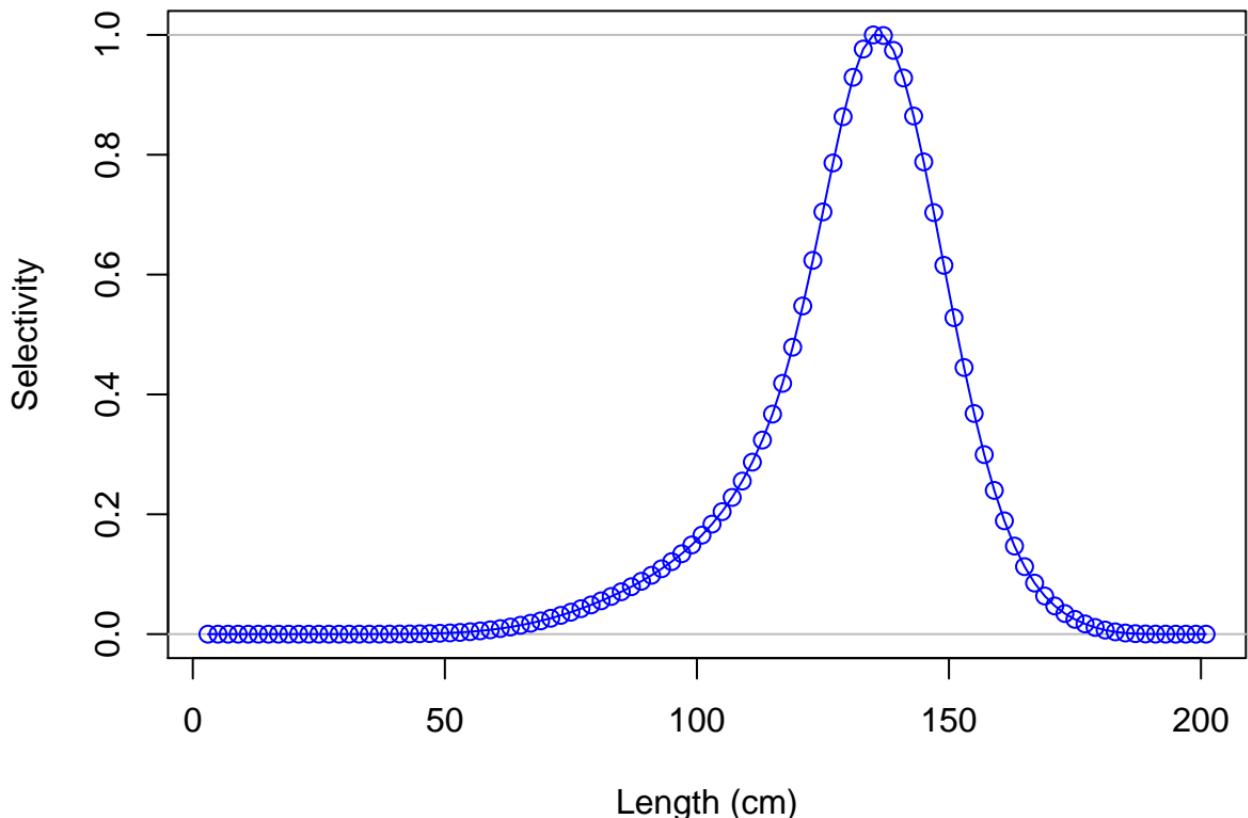
## Female ending year selectivity for F14–NOA\_S



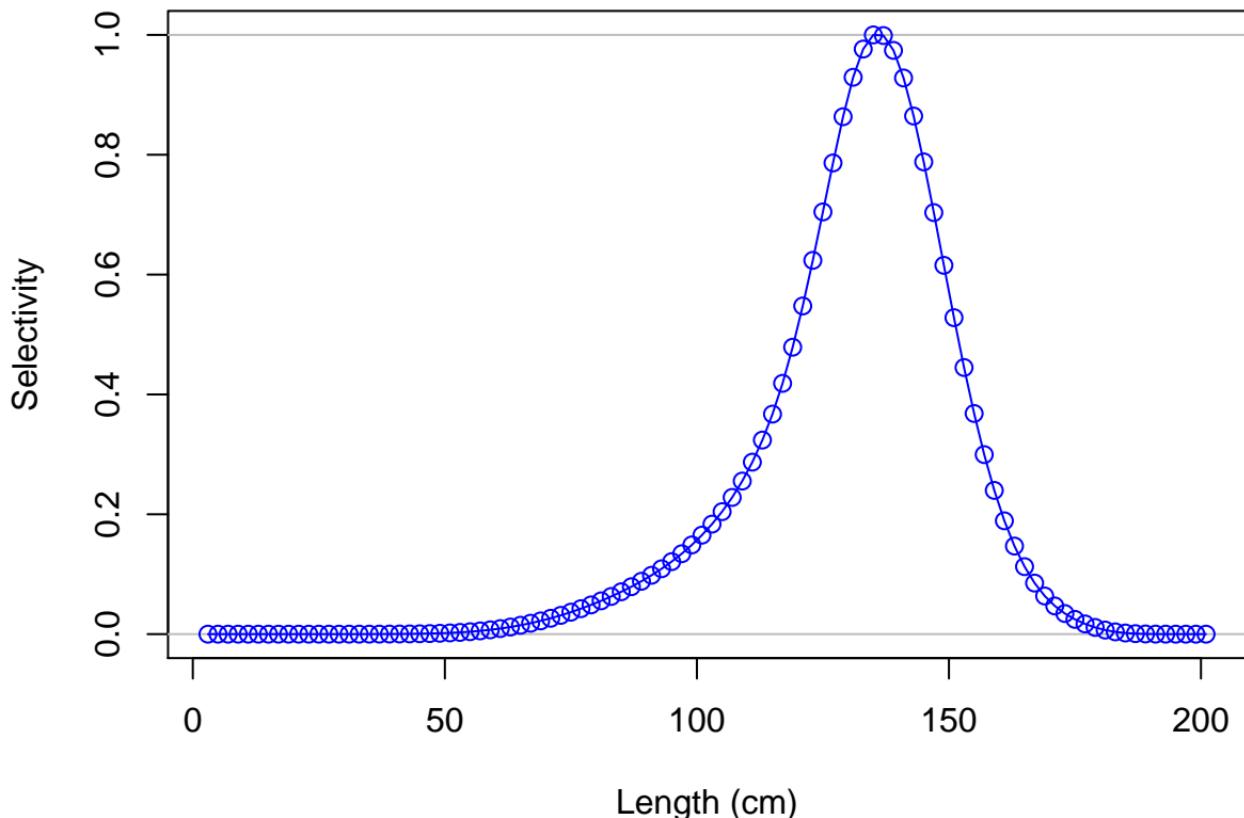
## Male ending year selectivity for F14–NOA\_S



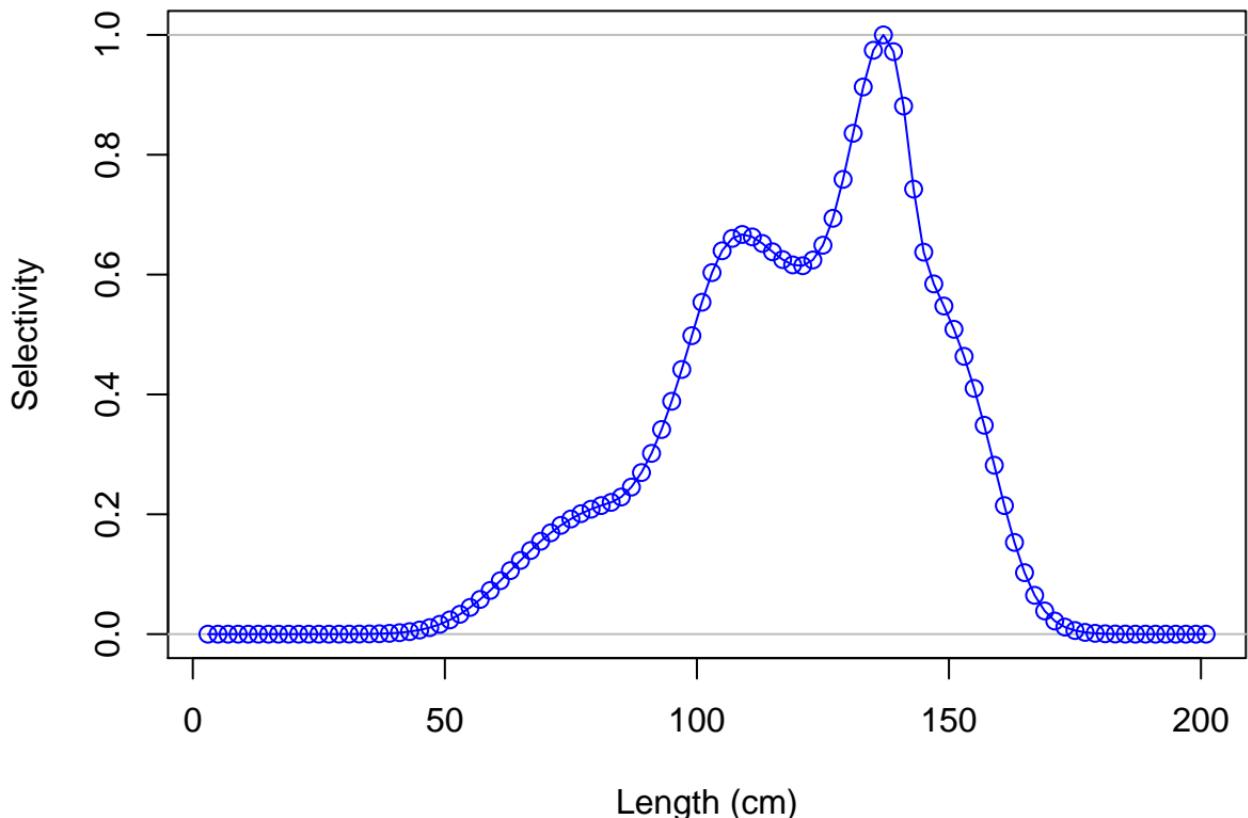
## Female ending year selectivity for F15-DEL\_N



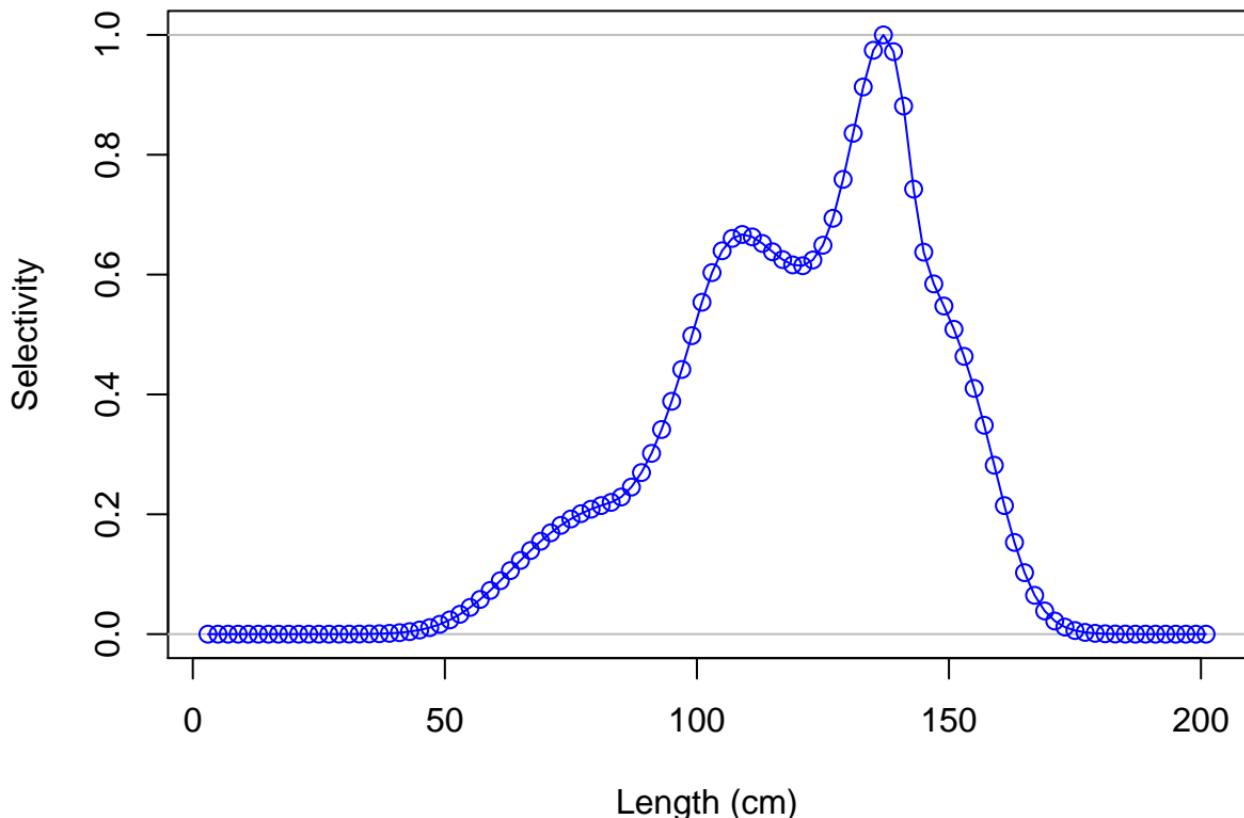
## Male ending year selectivity for F15-DEL\_N



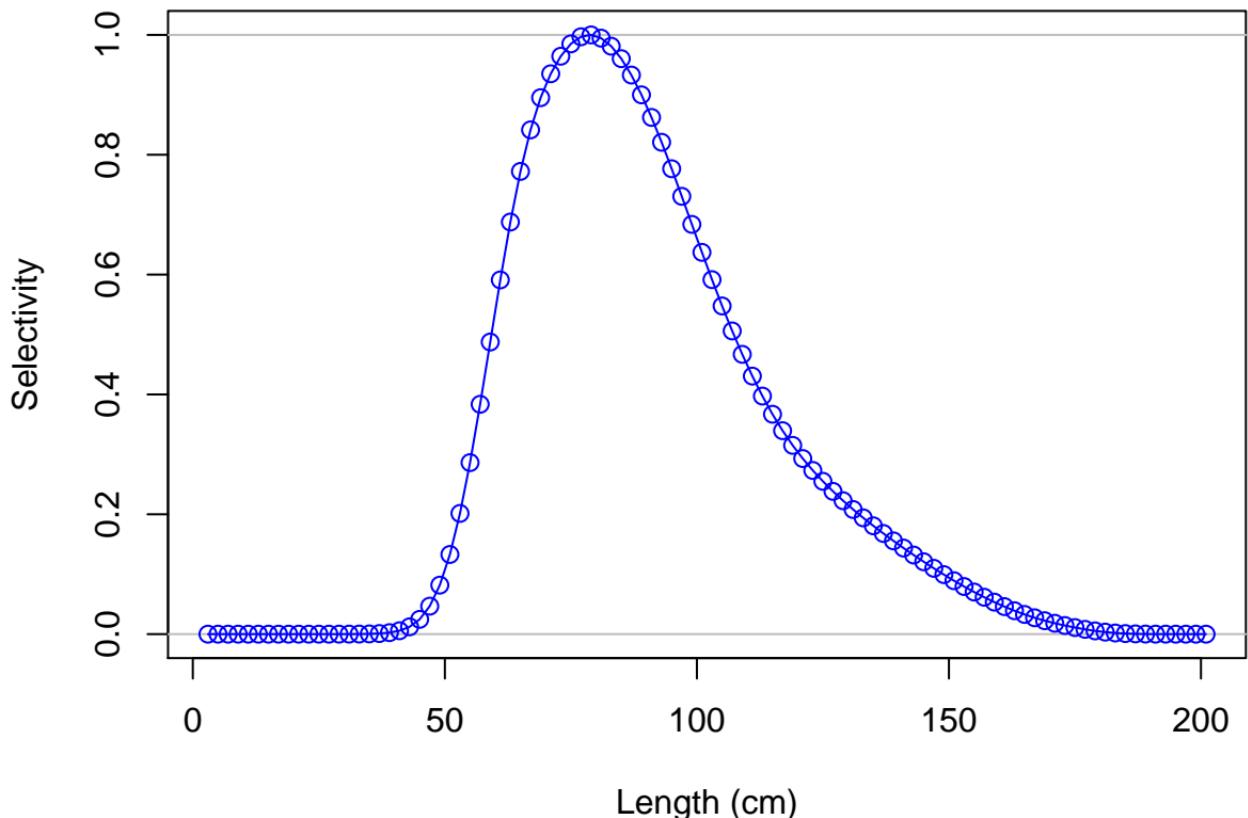
## Female ending year selectivity for F16-DEL\_NE



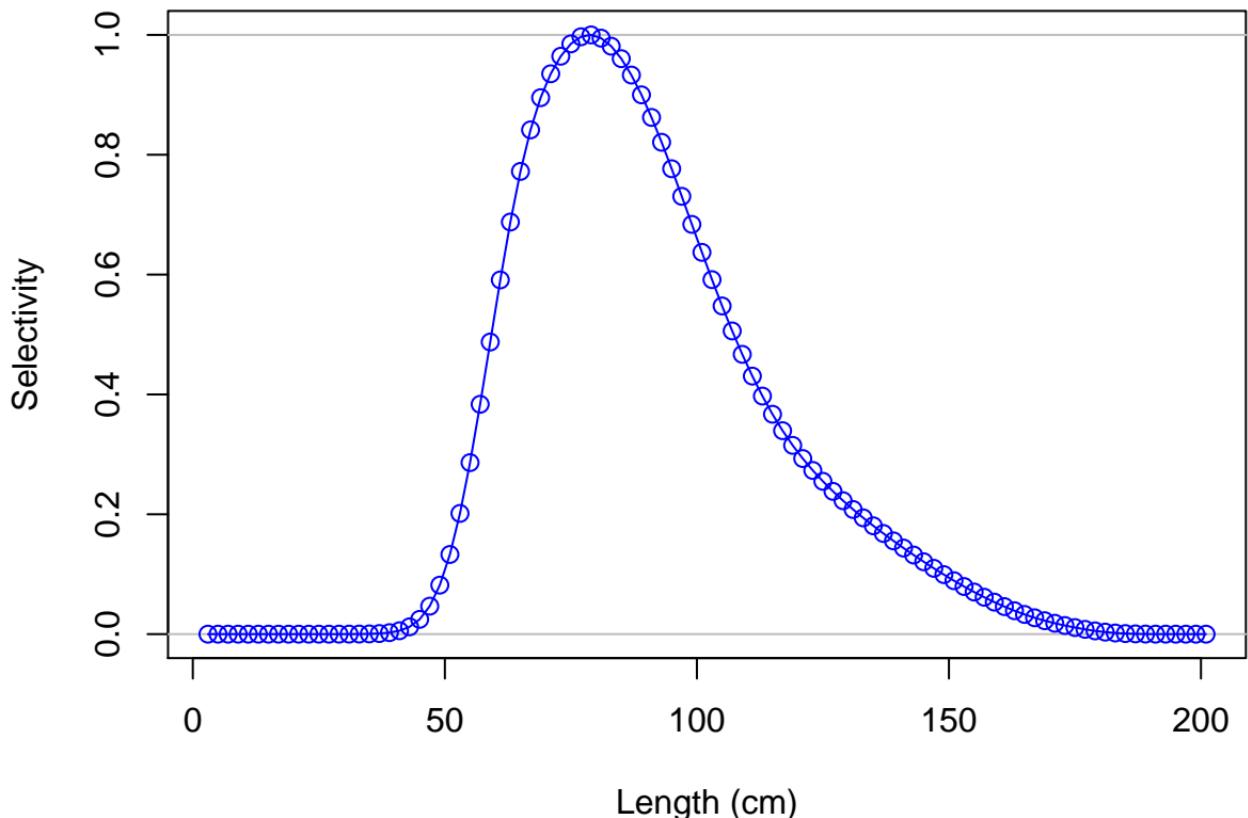
## Male ending year selectivity for F16-DEL\_NE



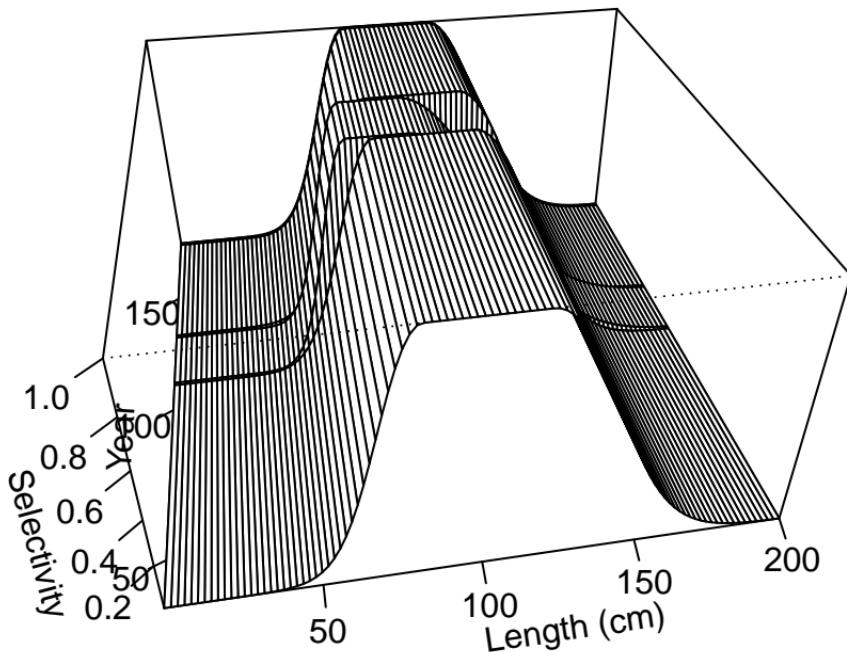
## Female ending year selectivity for F17-DEL\_M



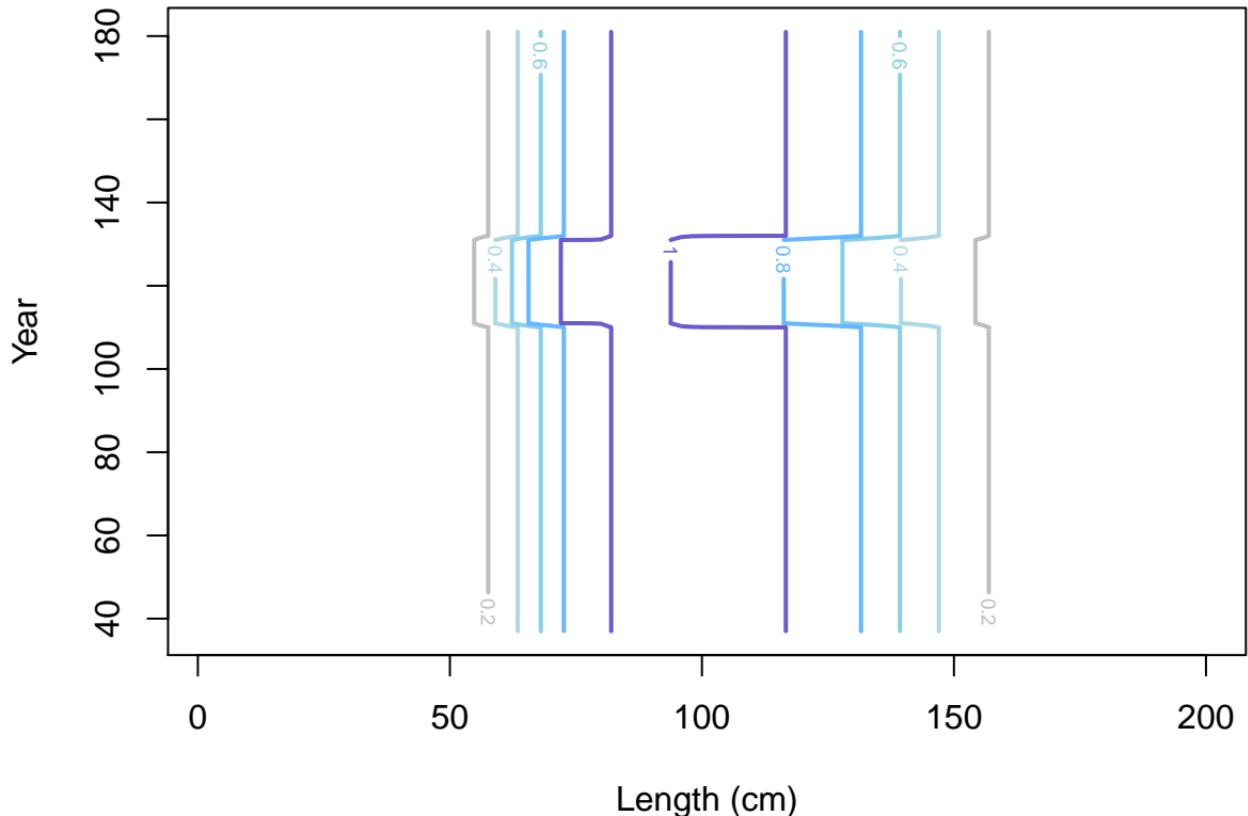
## Male ending year selectivity for F17-DEL\_M



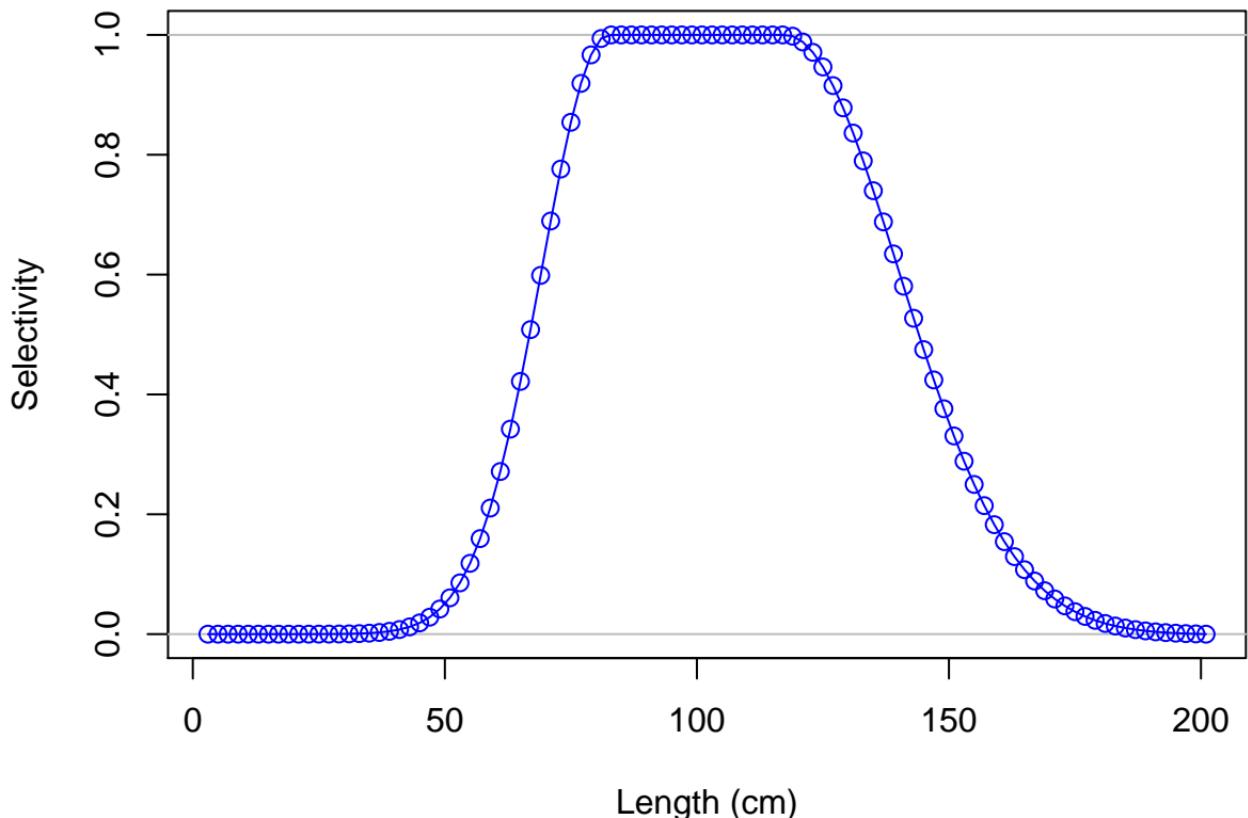
## Female time-varying selectivity for F18-DEL\_C



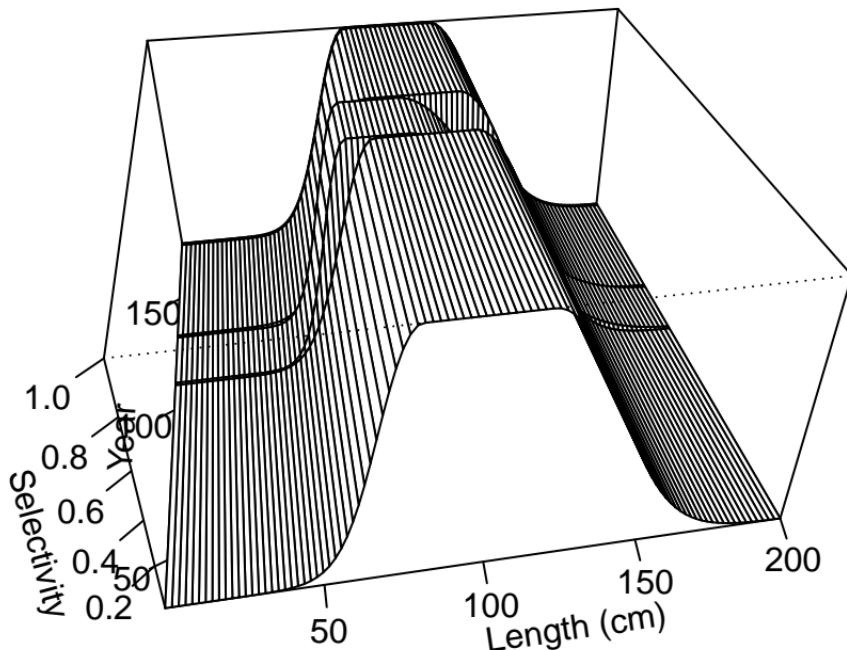
## Female time-varying selectivity for F18-DEL\_C



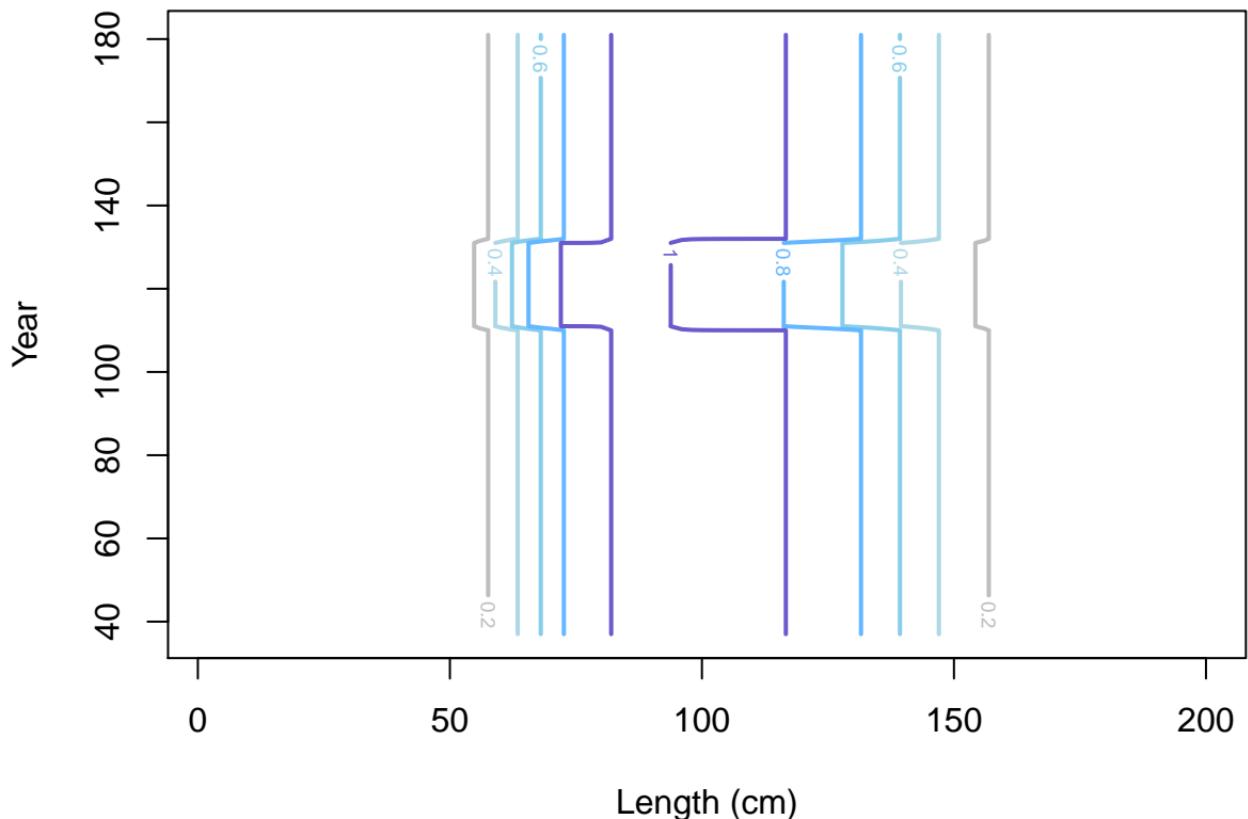
## Female ending year selectivity for F18-DEL\_C



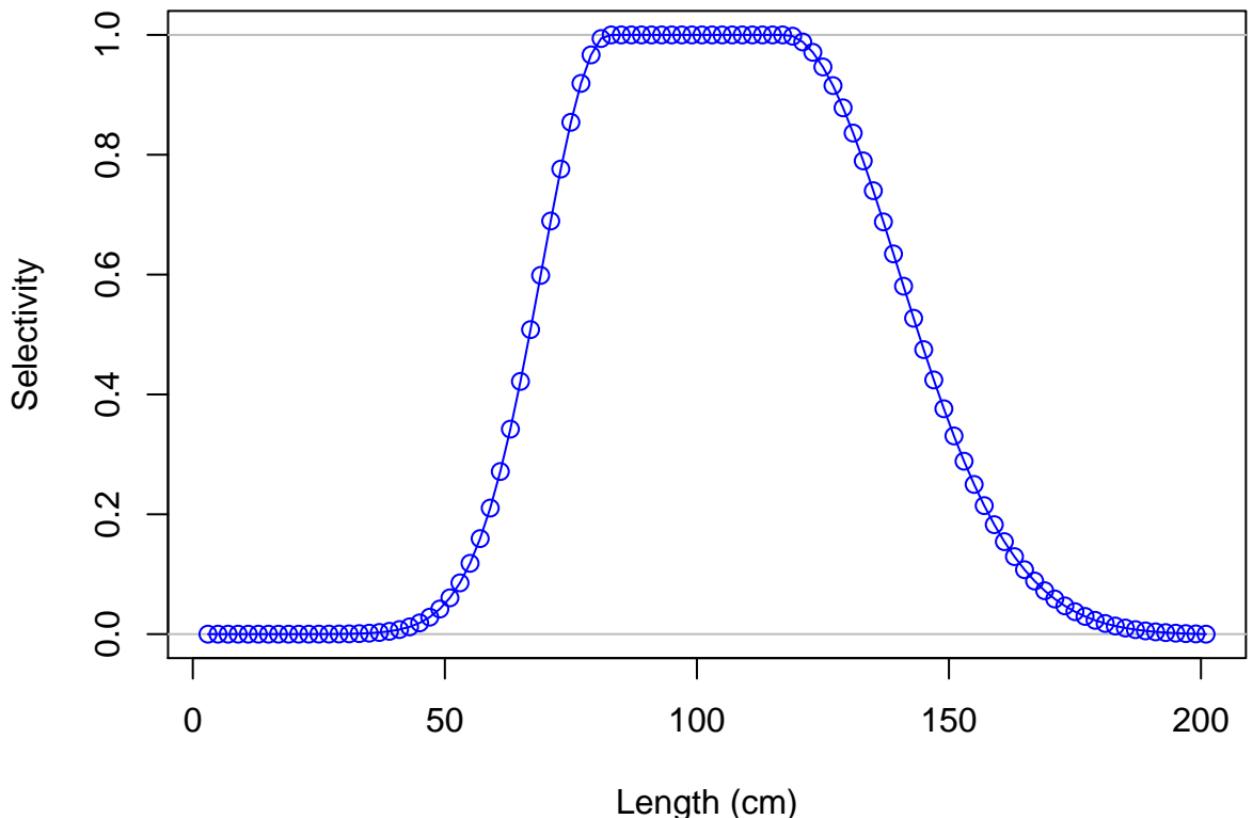
## Male time-varying selectivity for F18-DEL\_C



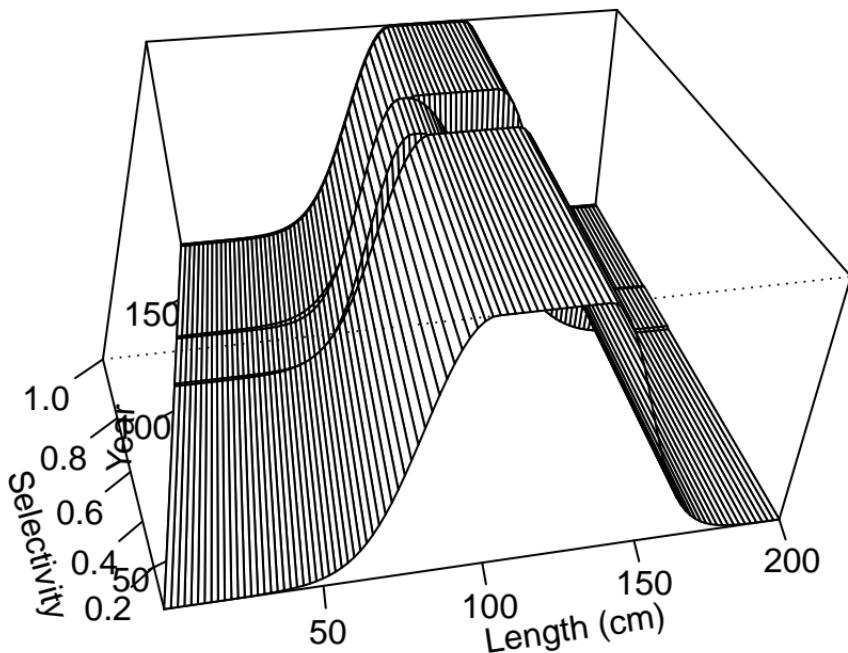
## Male time-varying selectivity for F18-DEL\_C



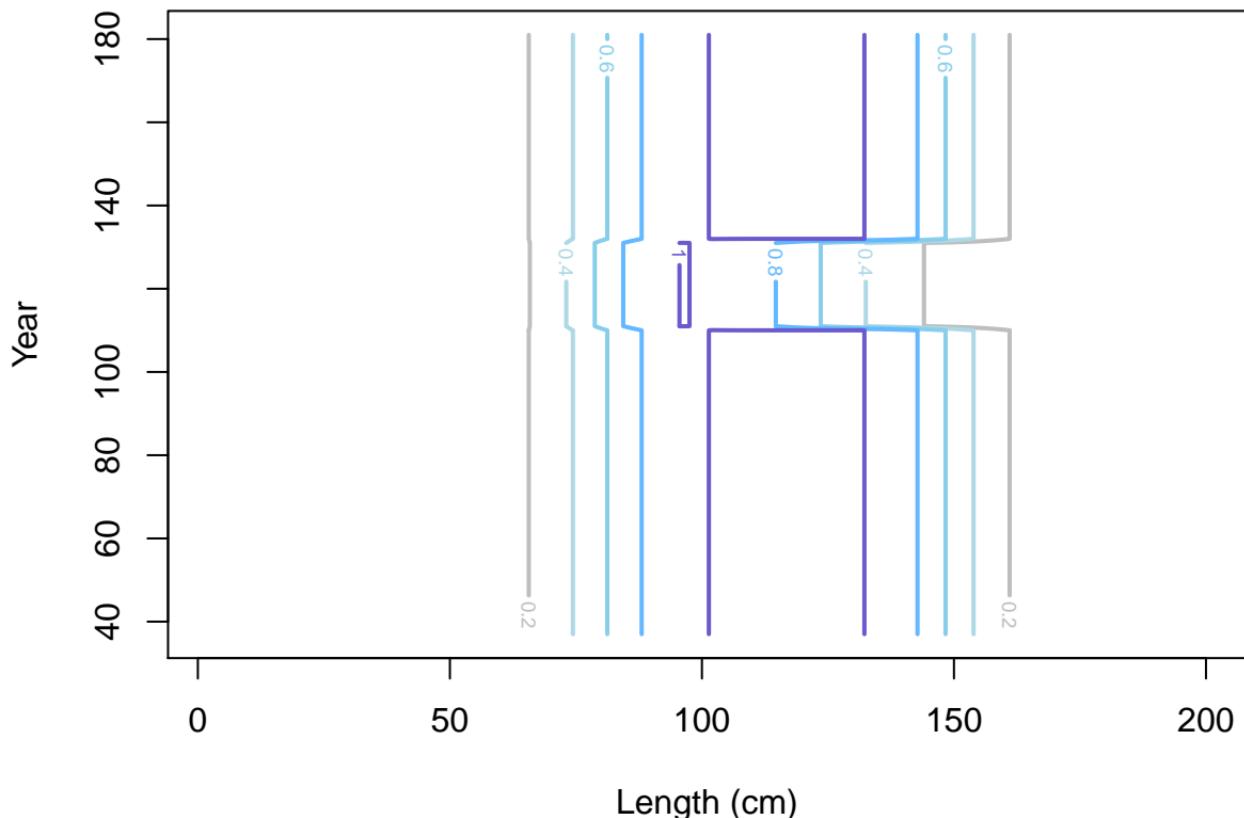
## Male ending year selectivity for F18-DEL\_C



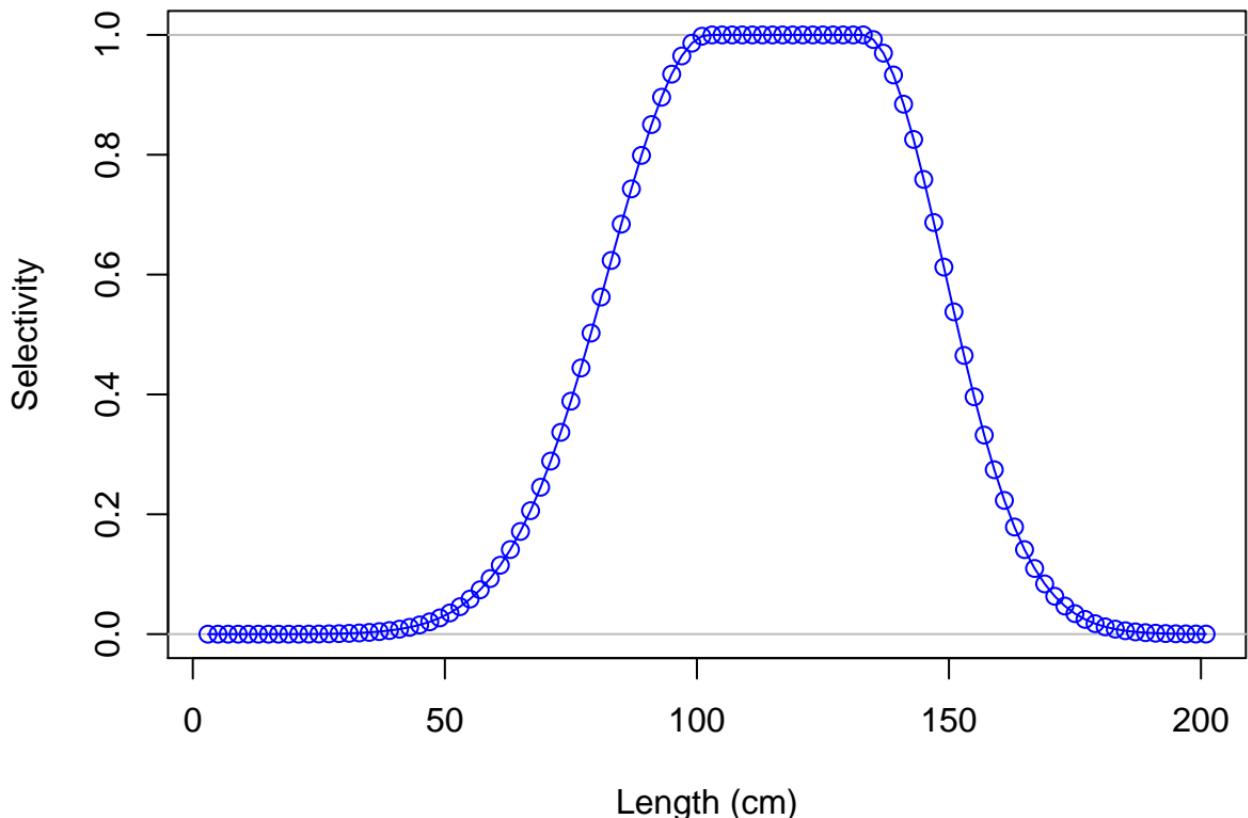
## Female time-varying selectivity for F19-DEL\_P



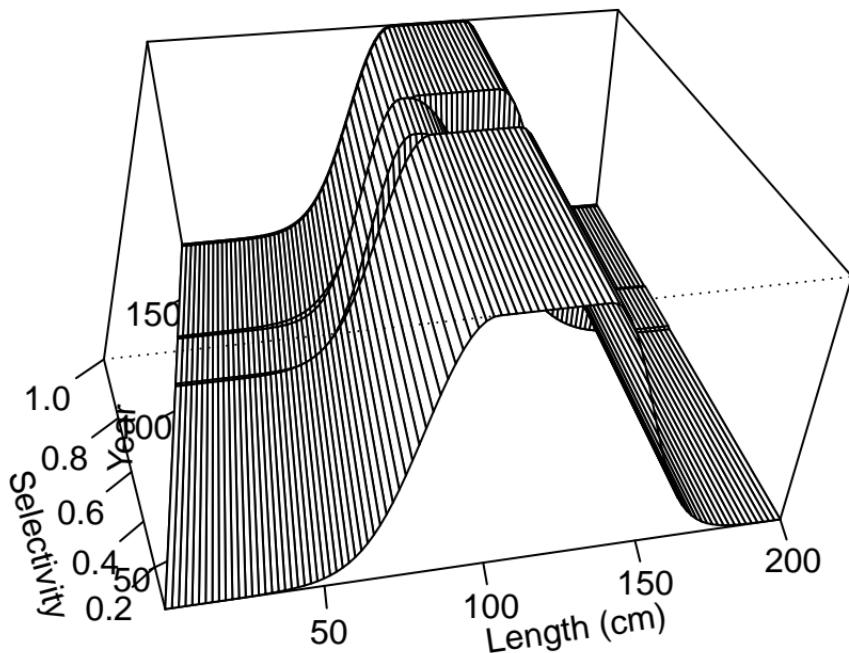
## Female time-varying selectivity for F19-DEL\_P



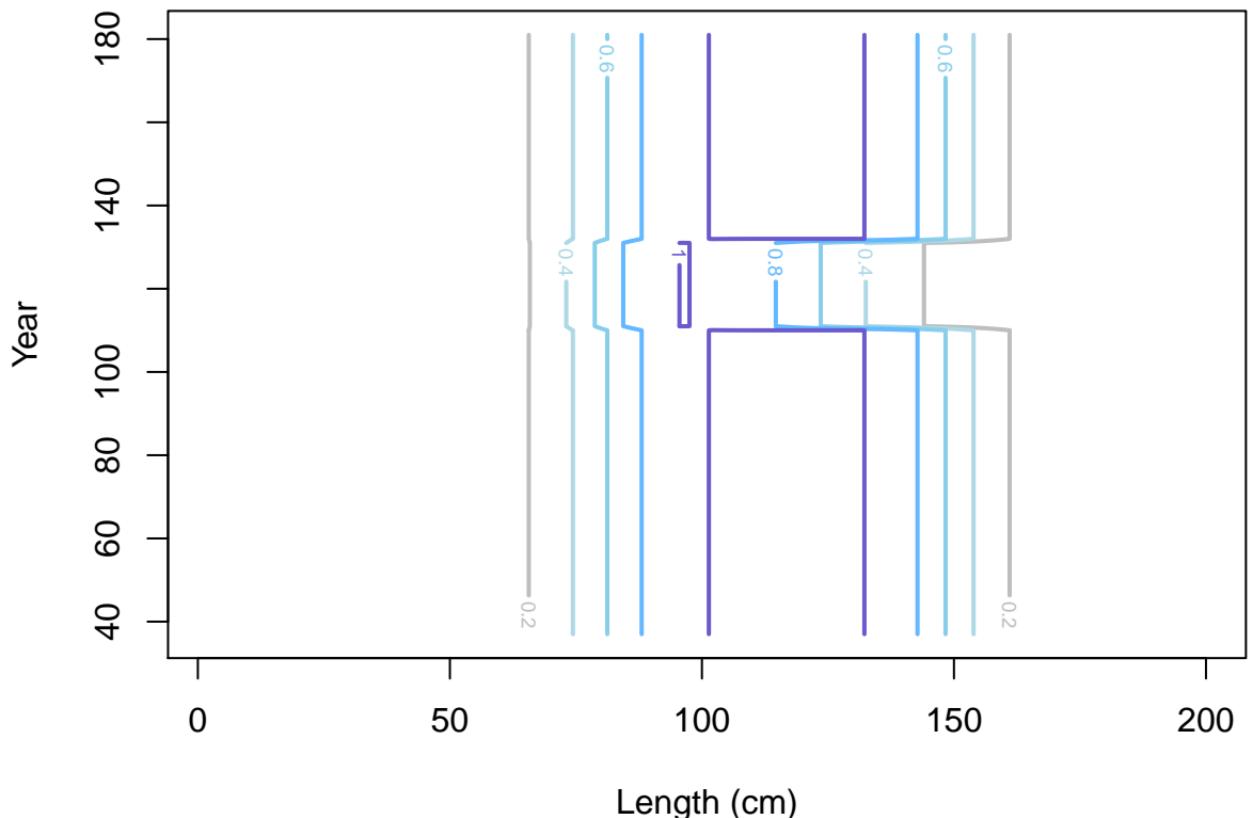
## Female ending year selectivity for F19-DEL\_P



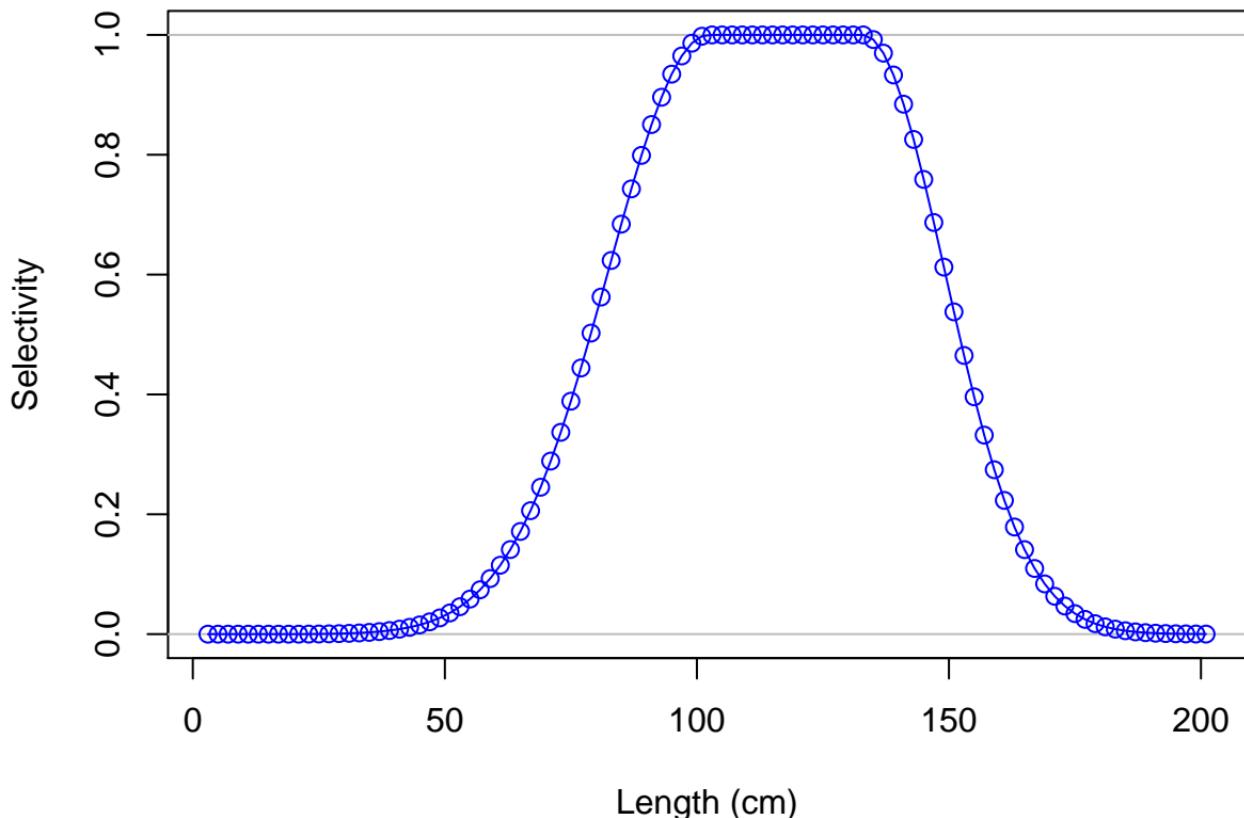
## Male time-varying selectivity for F19-DEL\_P



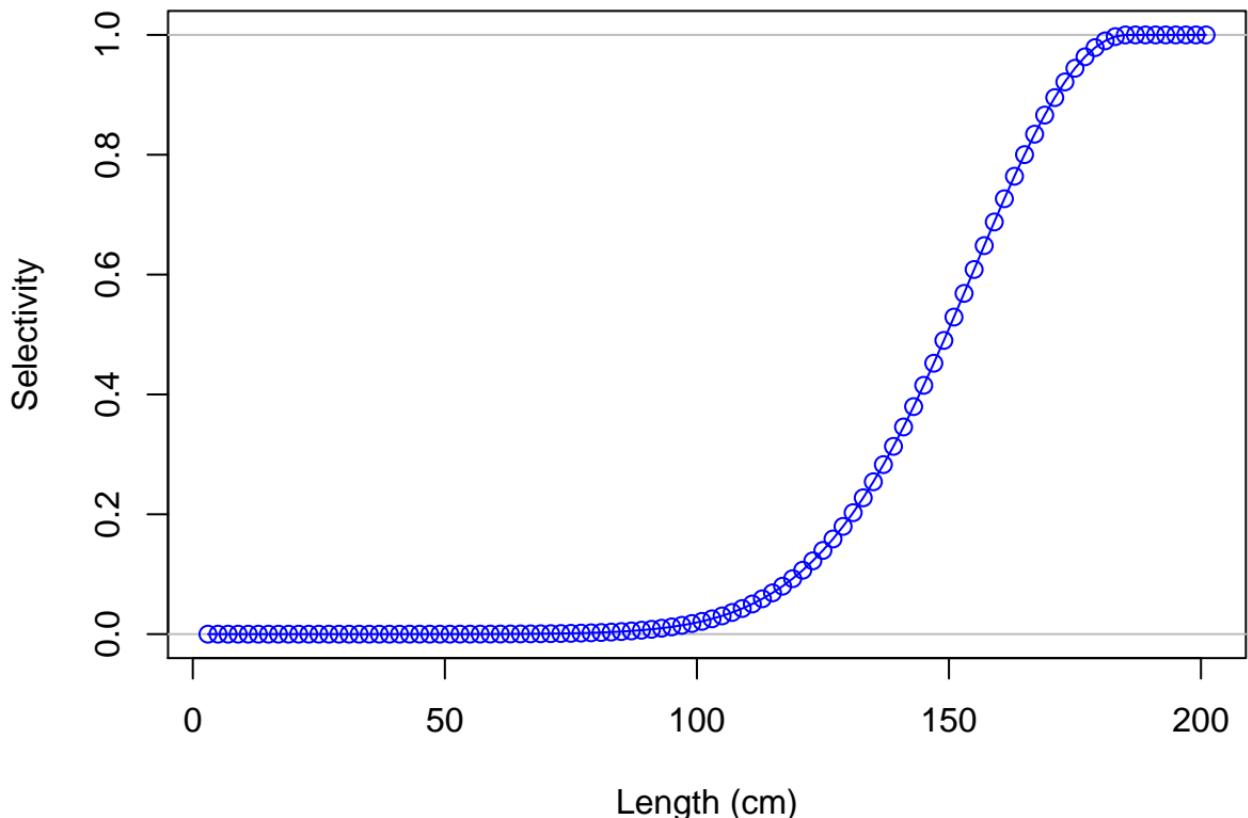
## Male time-varying selectivity for F19-DEL\_P



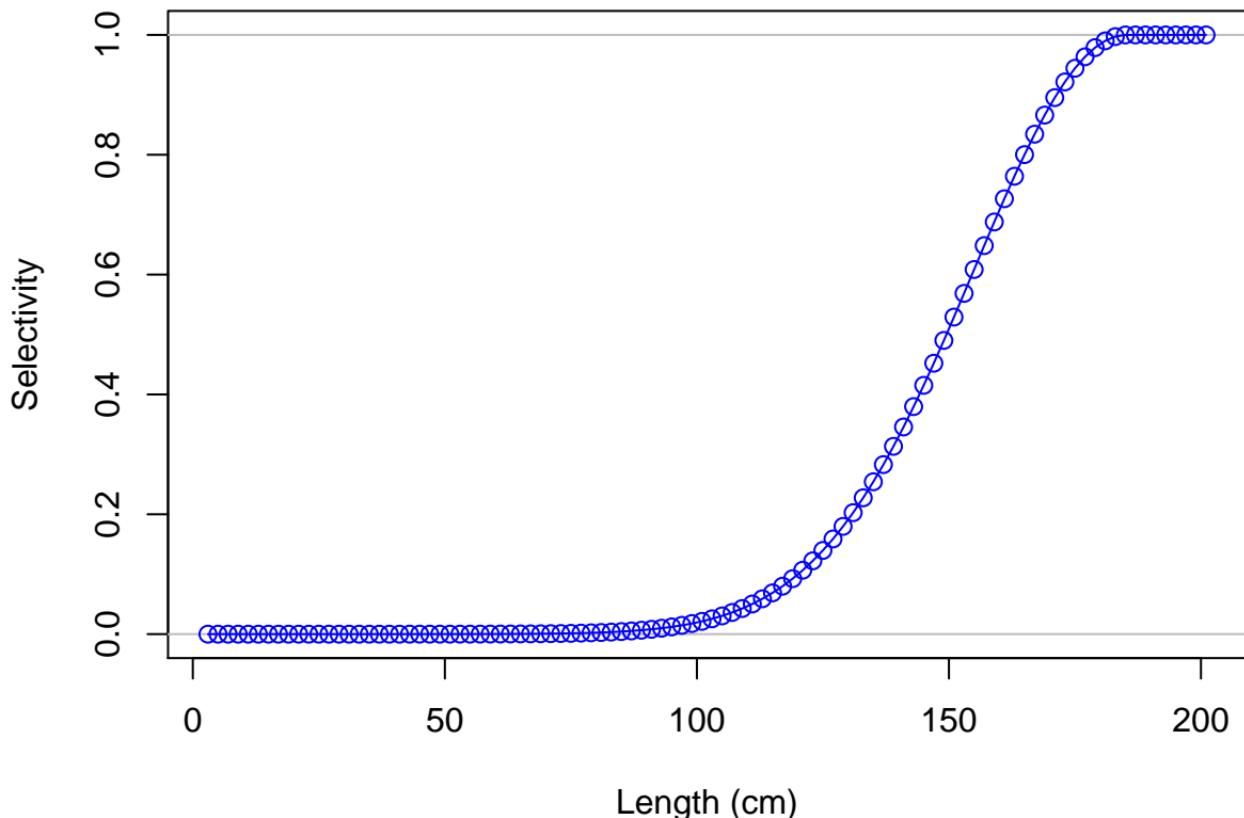
## Male ending year selectivity for F19-DEL\_P



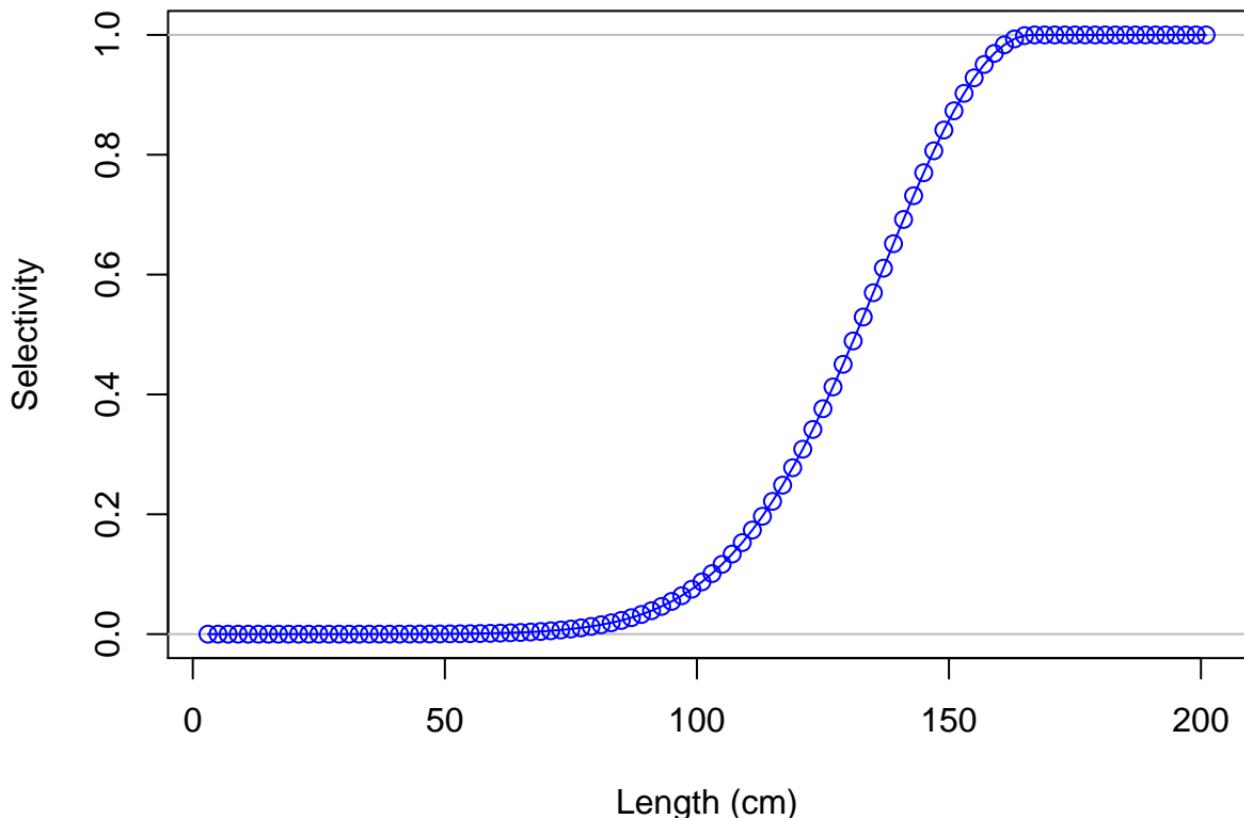
## Female ending year selectivity for F20-DEL\_S



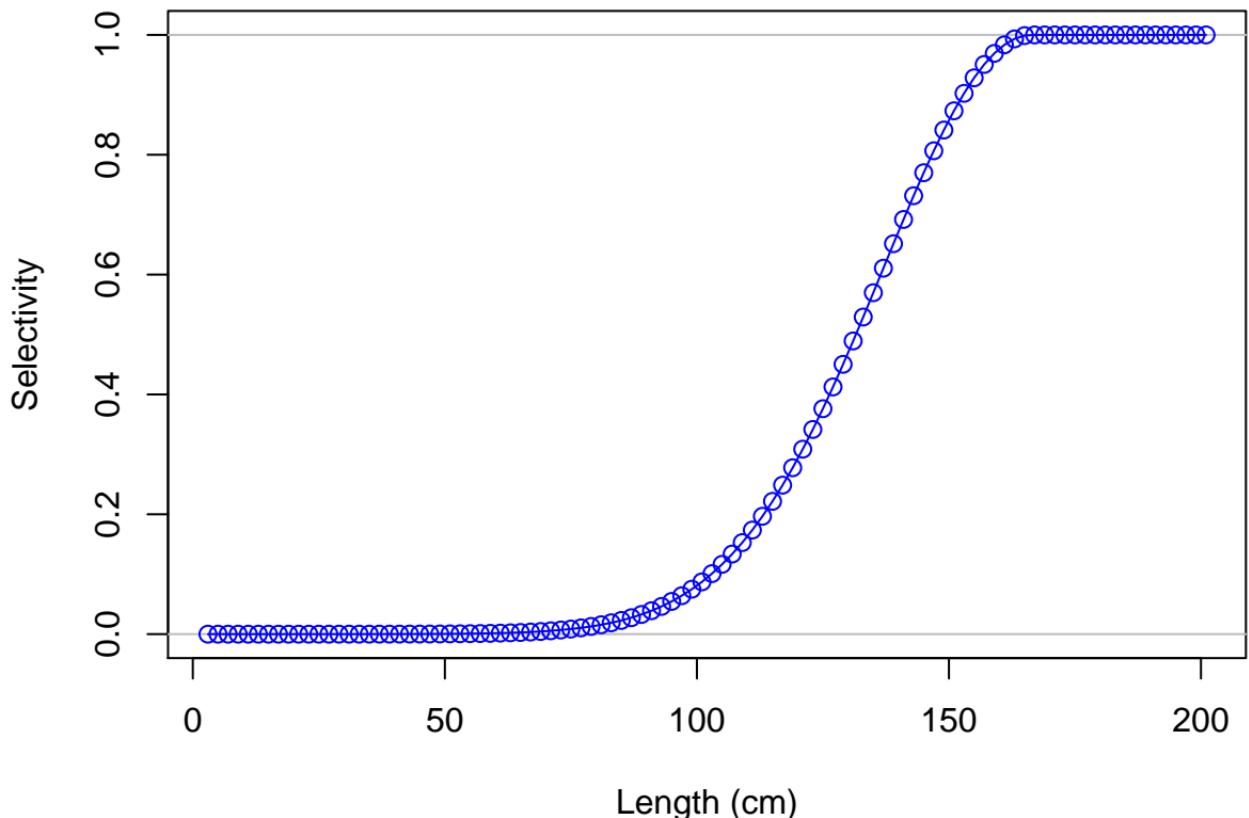
## Male ending year selectivity for F20-DEL\_S



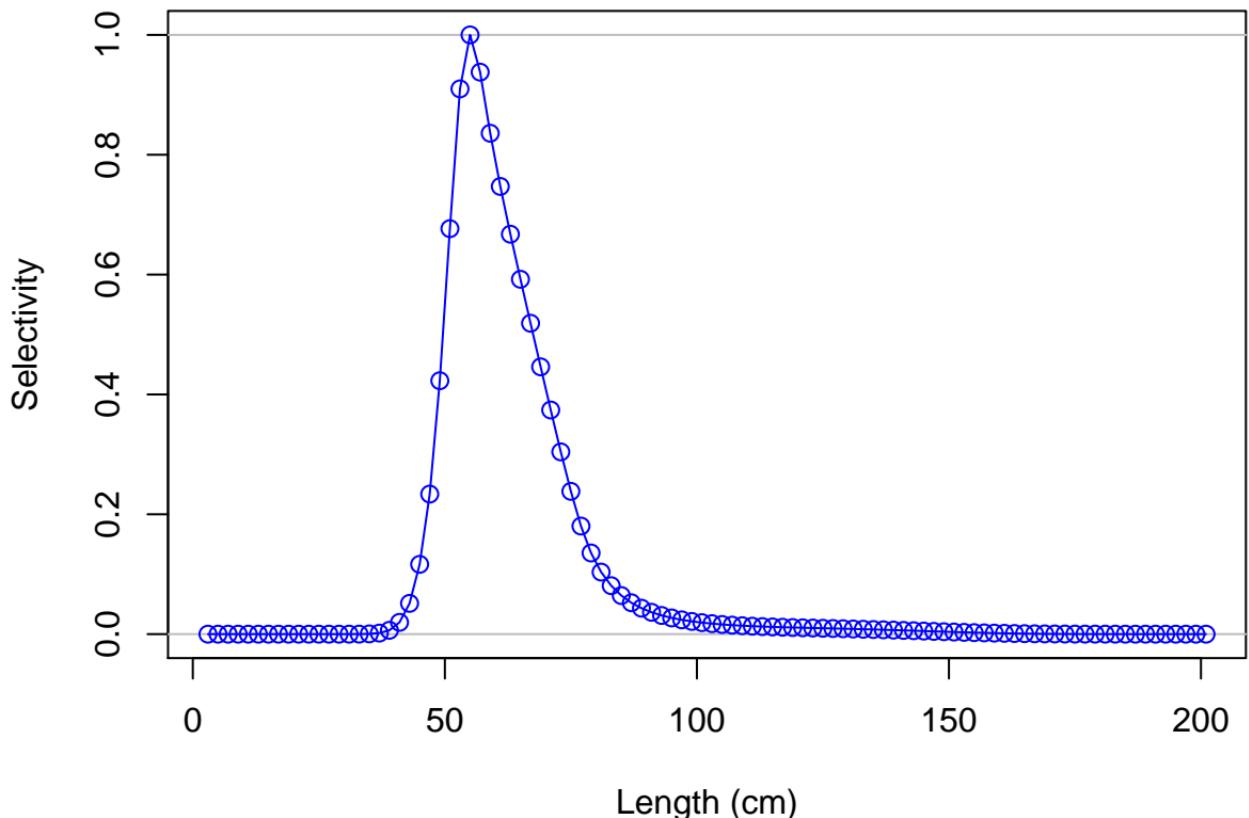
## Female ending year selectivity for F21-DEL\_I



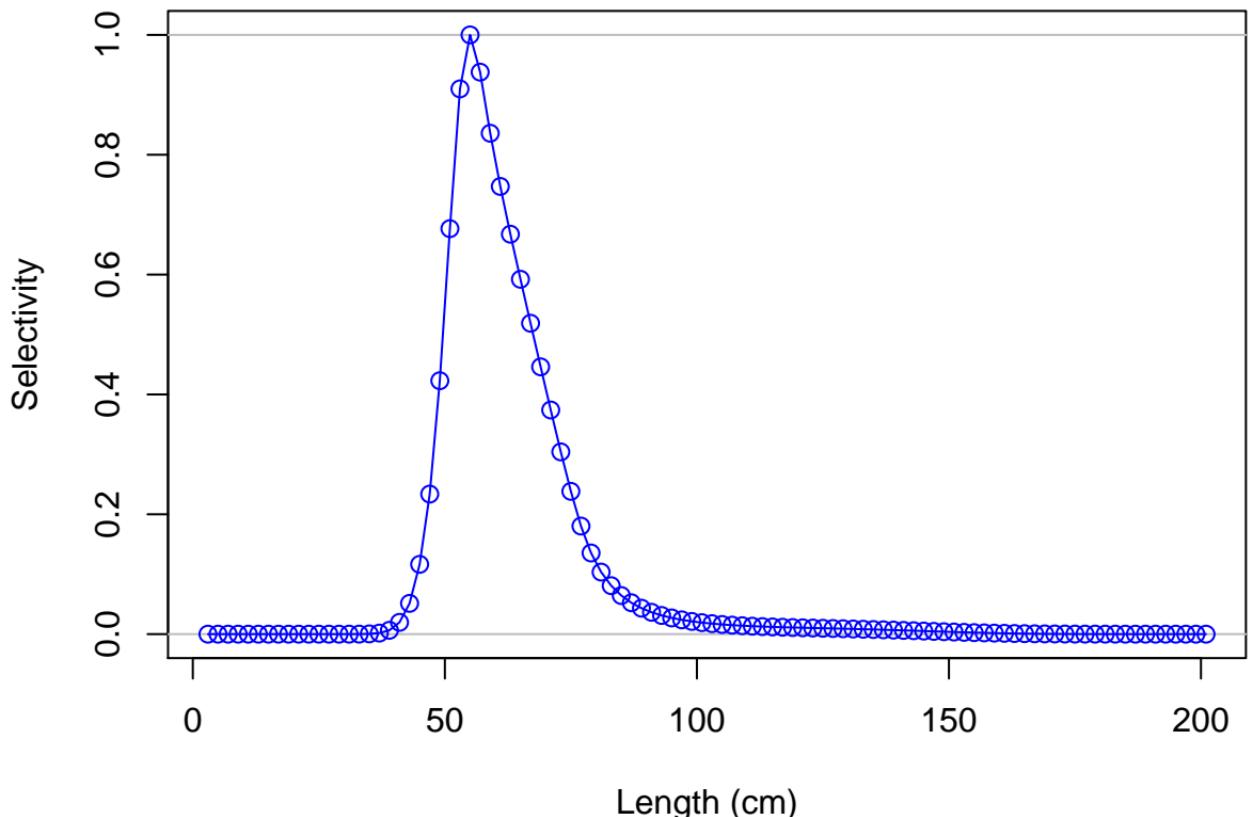
## Male ending year selectivity for F21-DEL\_I



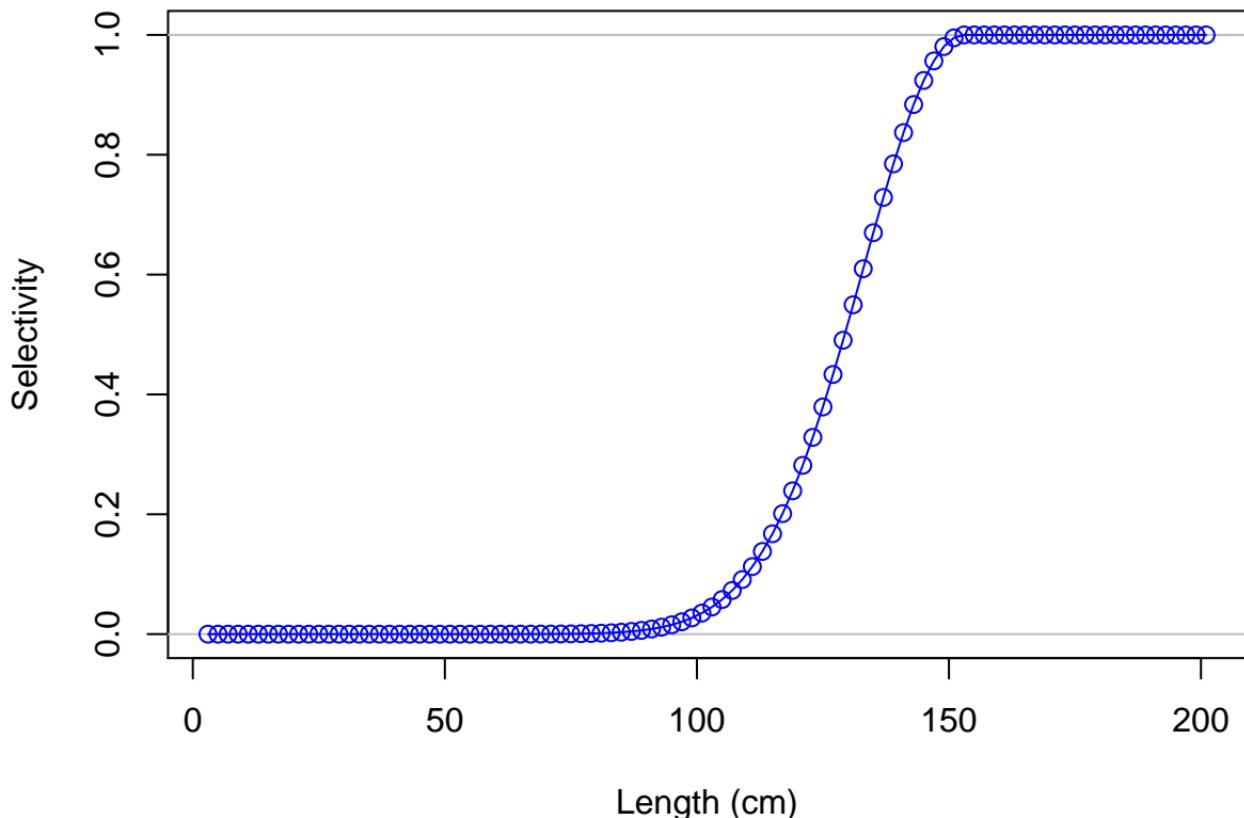
## Female ending year selectivity for F22-BB



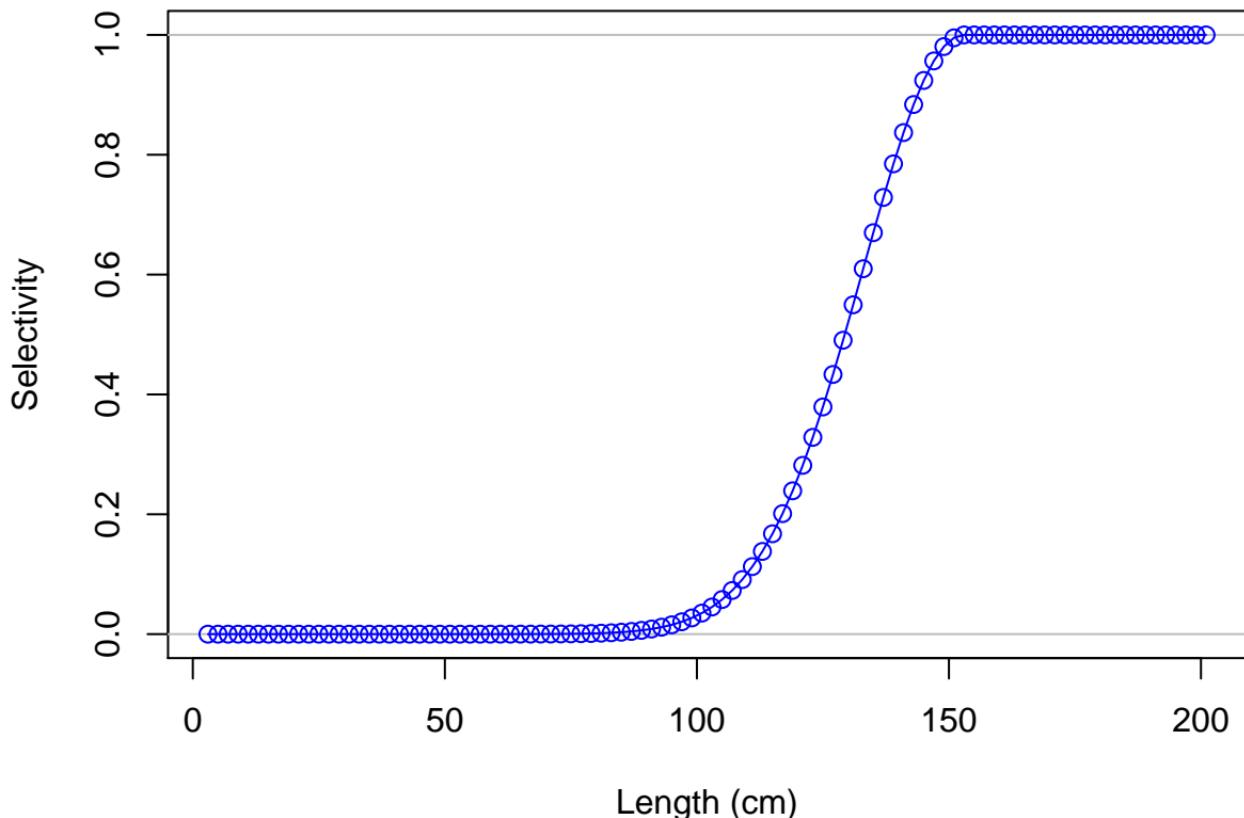
## Male ending year selectivity for F22–BB



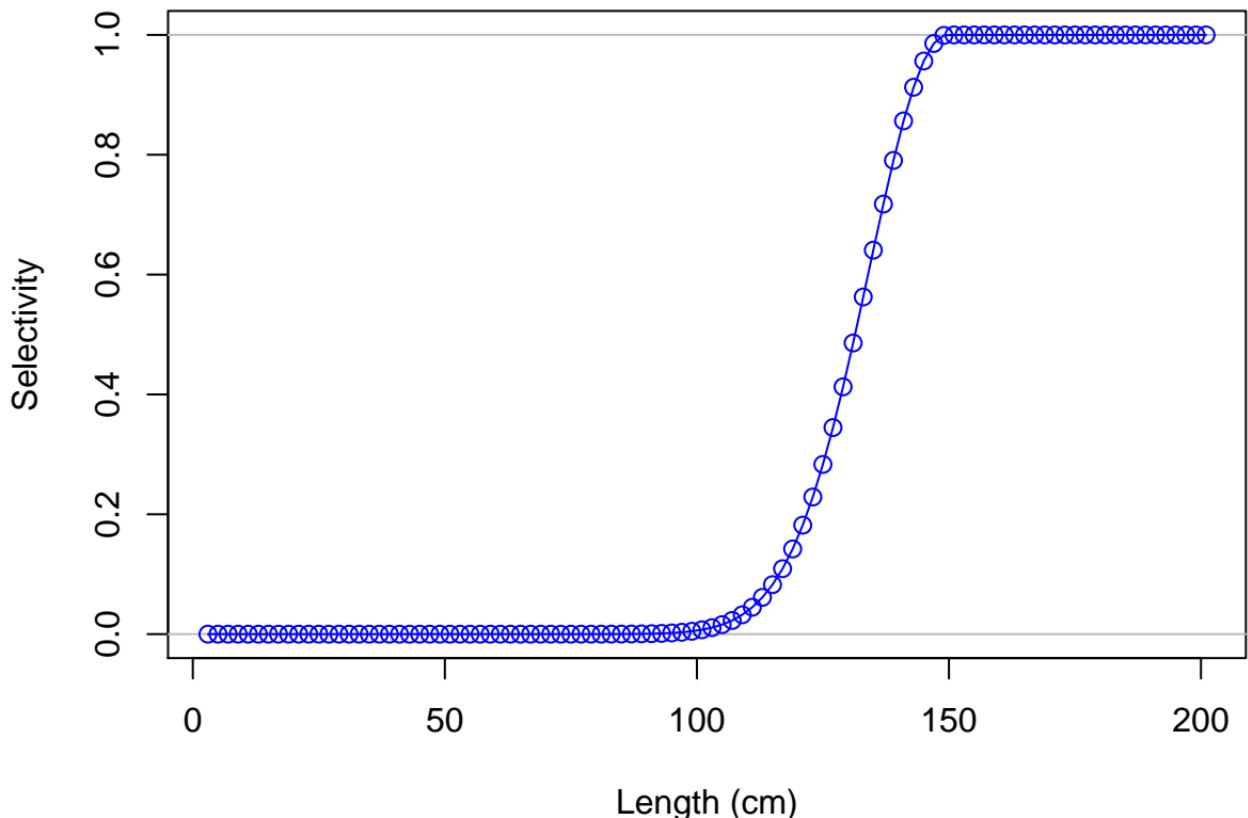
## Female ending year selectivity for F29-LL\_W\_Q14n



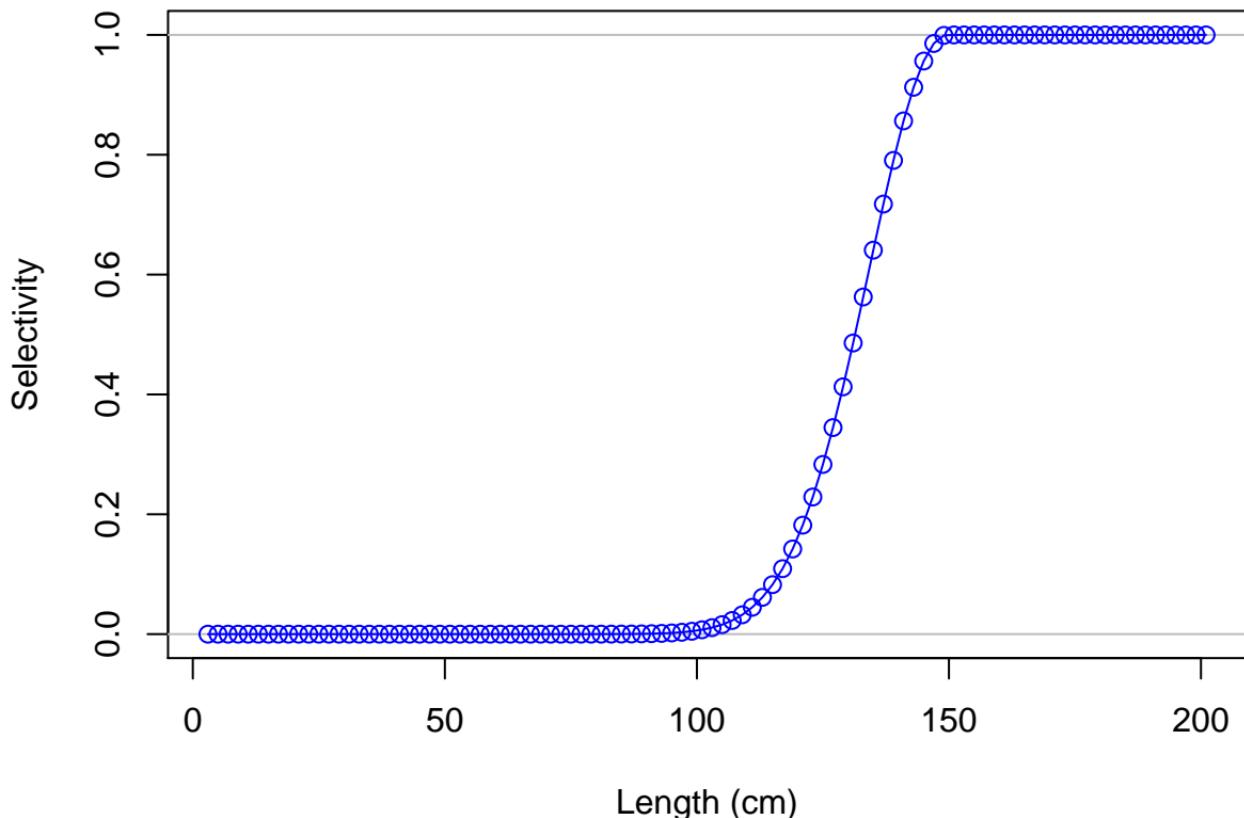
## Male ending year selectivity for F29-LL\_W\_Q14n



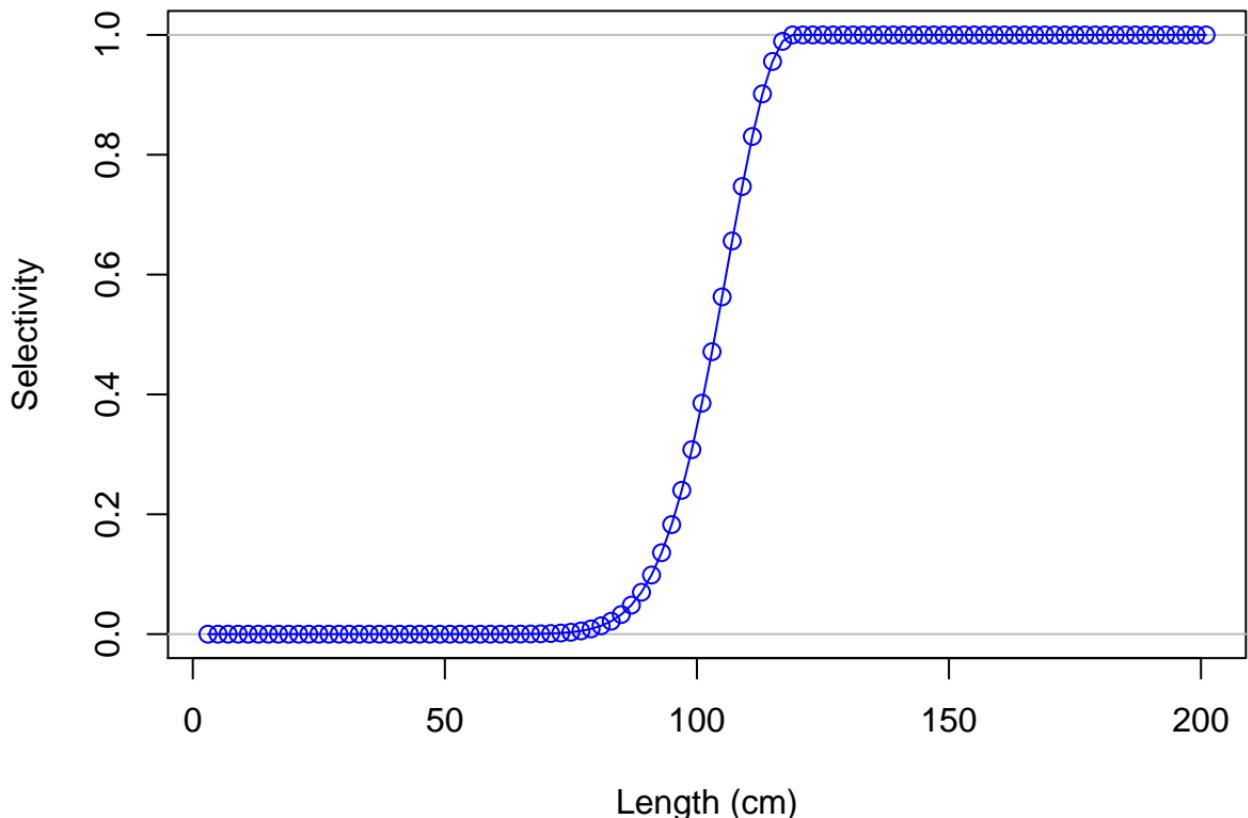
## Female ending year selectivity for F30-LL\_C\_Q14n



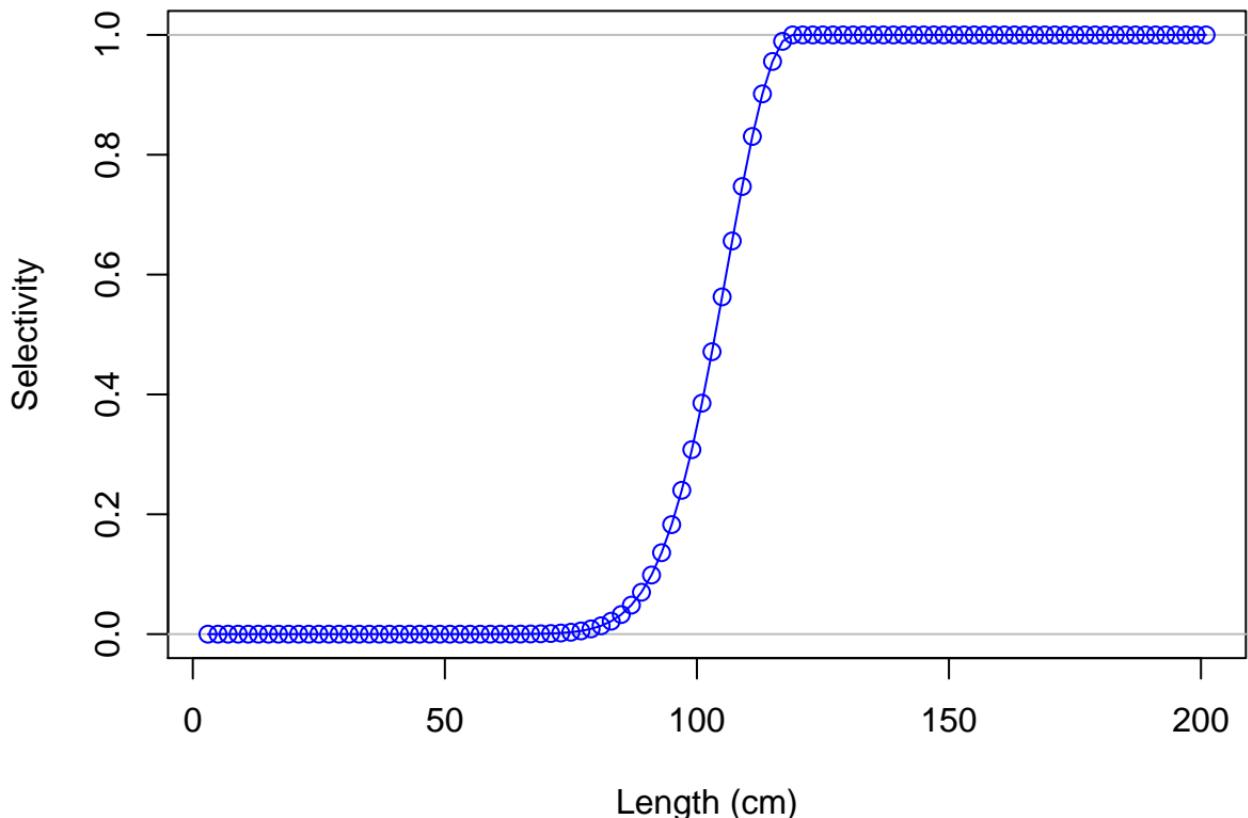
### Male ending year selectivity for F30-LL\_C\_Q14n



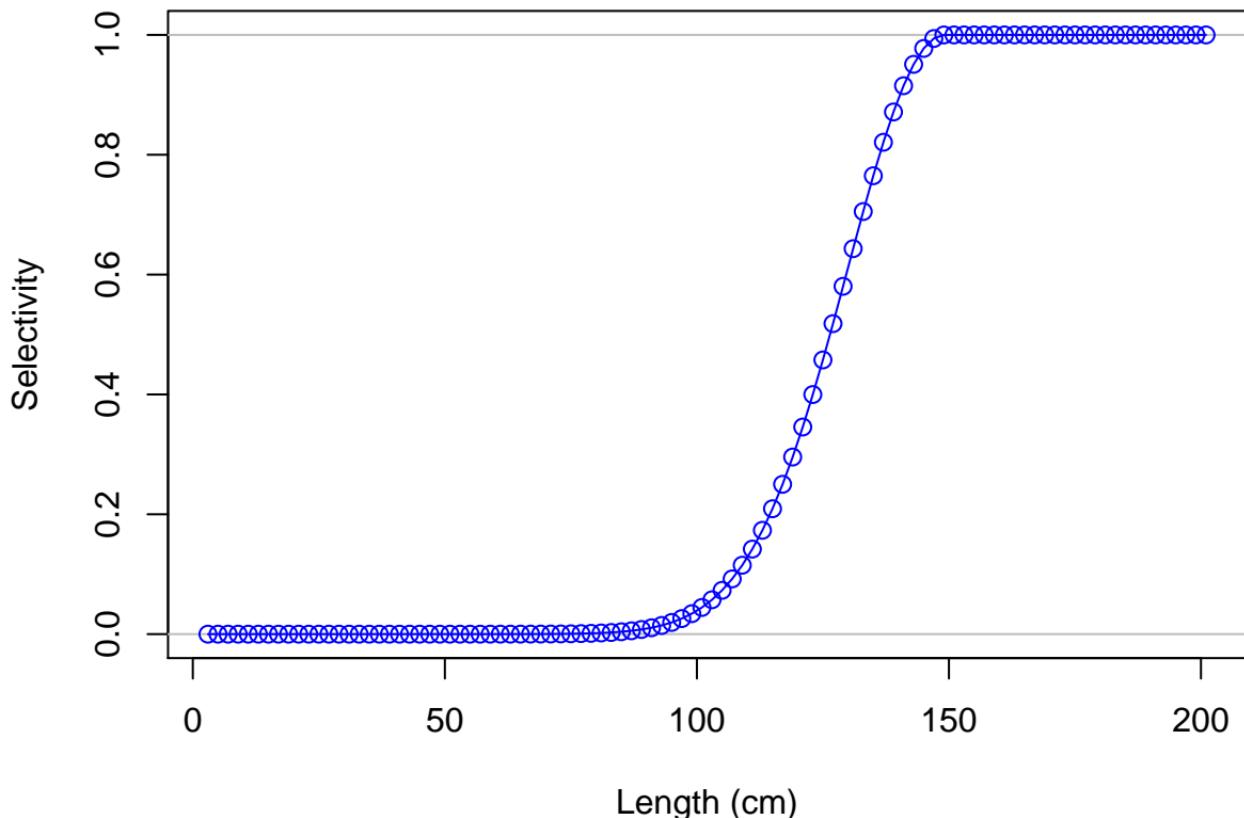
## Female ending year selectivity for F31-LL\_E\_Q14n



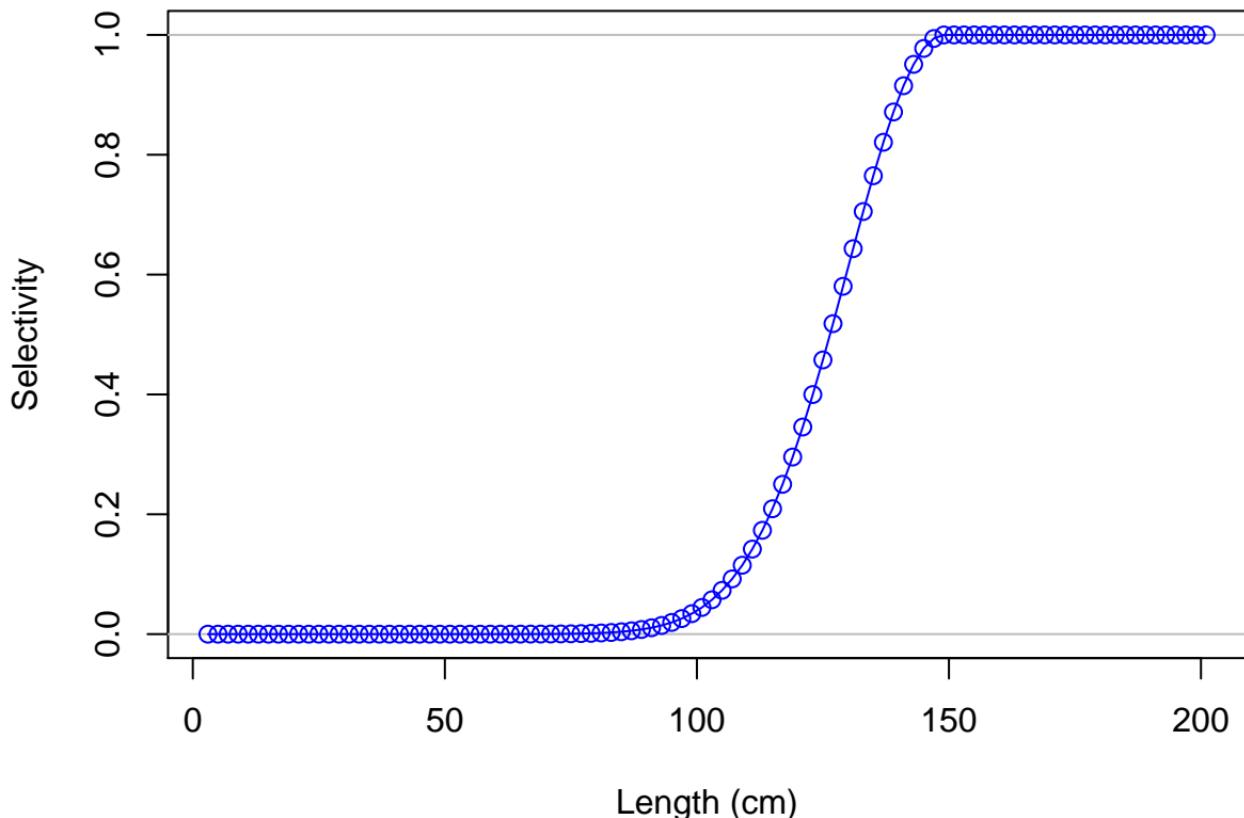
### Male ending year selectivity for F31-LL\_E\_Q14n



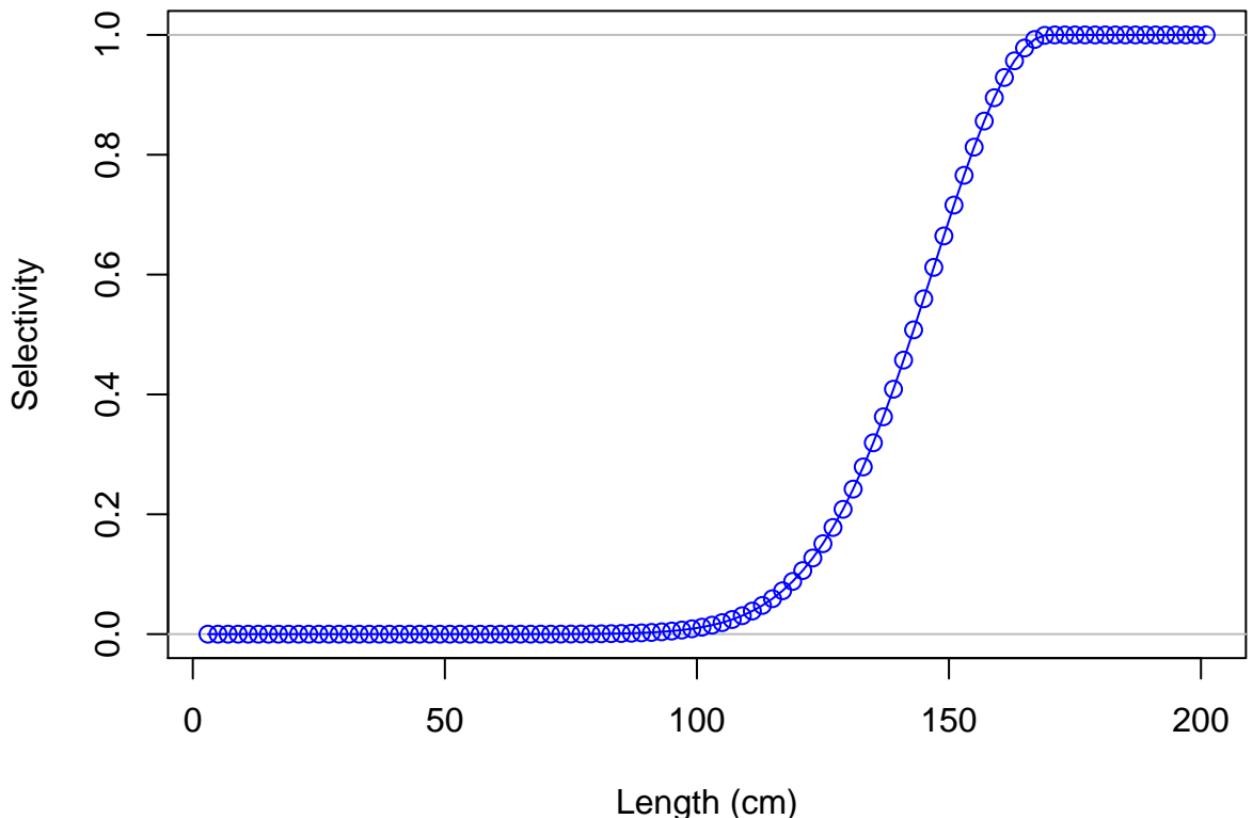
## Female ending year selectivity for F32-LL\_W\_Q23n



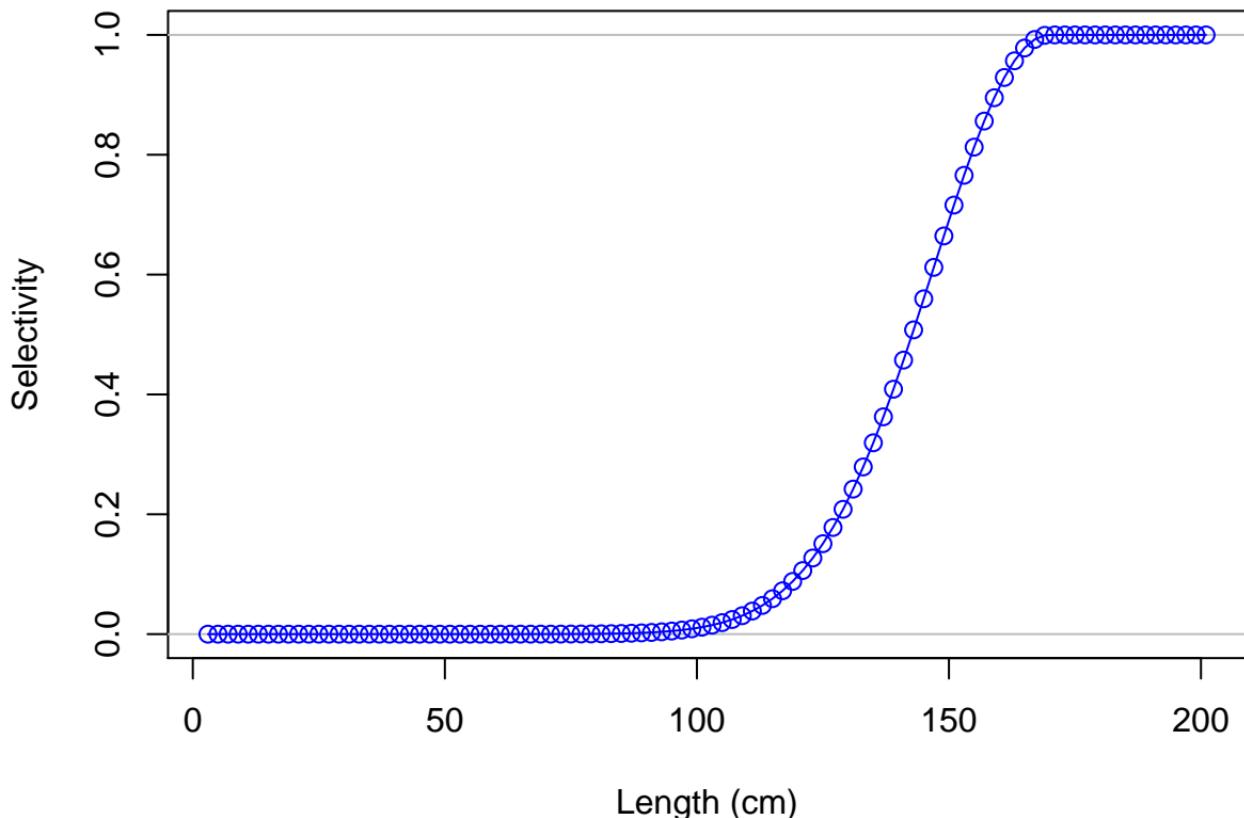
### Male ending year selectivity for F32-LL\_W\_Q23n



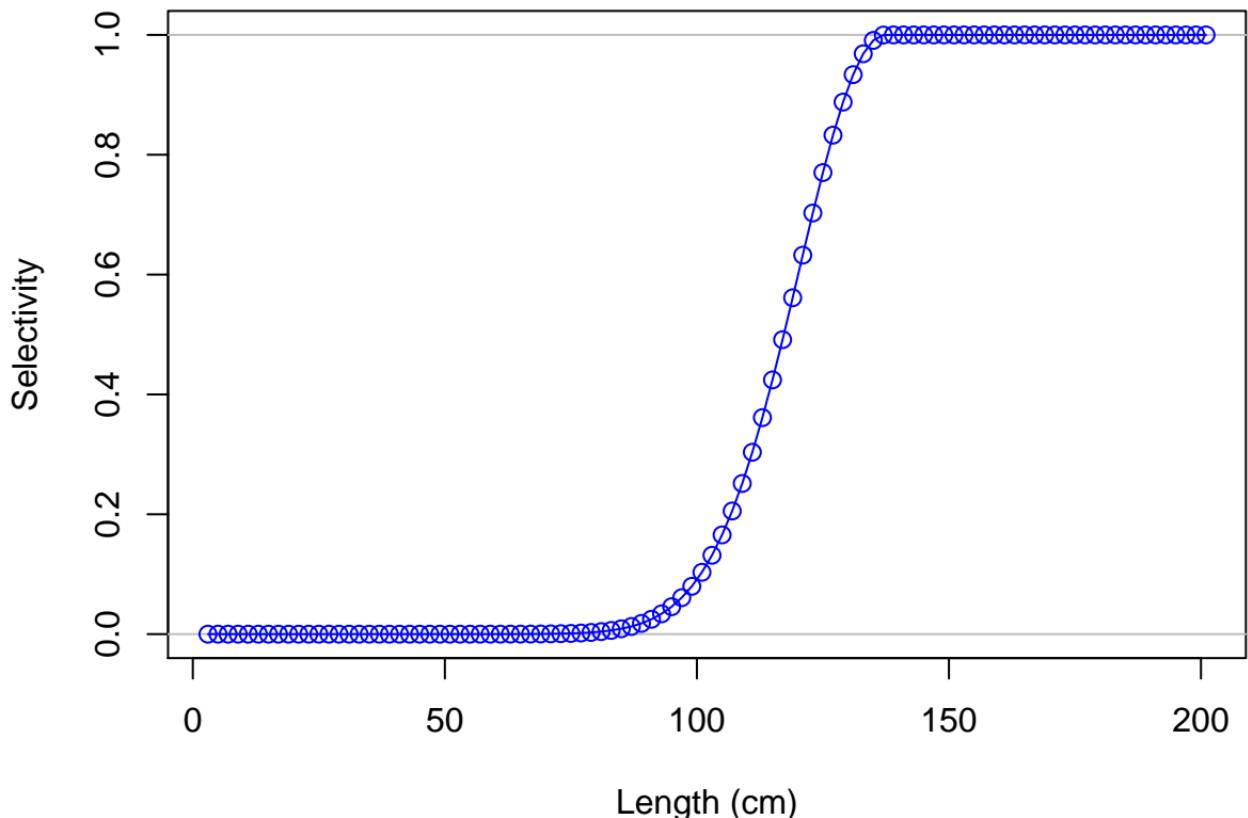
## Female ending year selectivity for F33-LL\_C\_Q23n



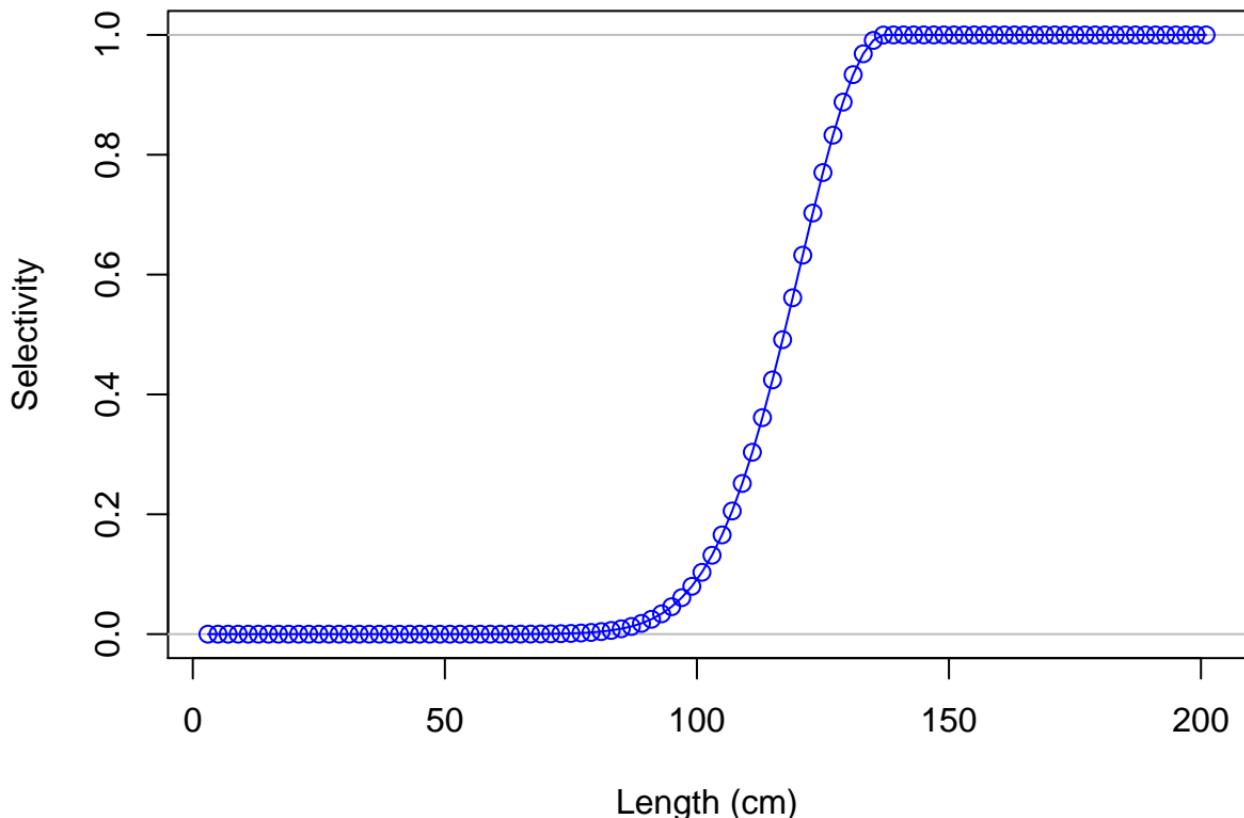
### Male ending year selectivity for F33-LL\_C\_Q23n



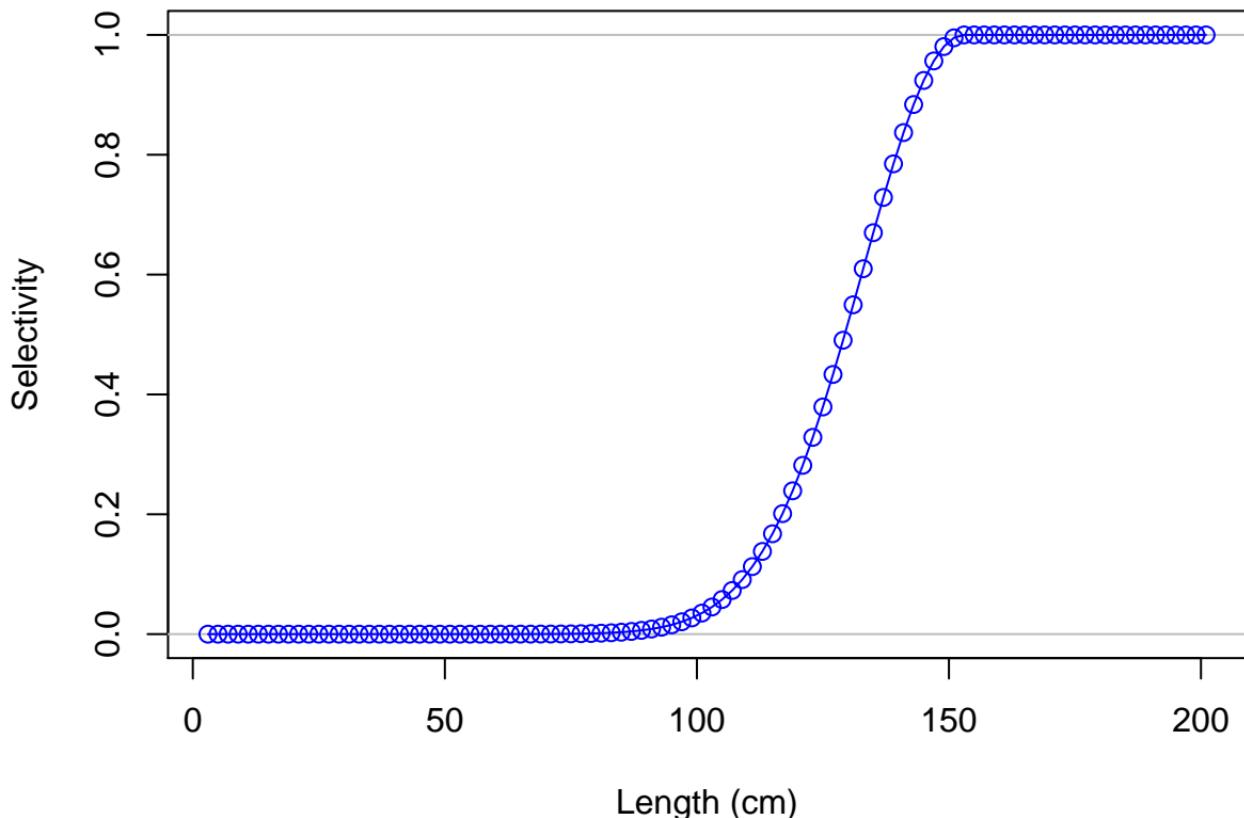
## Female ending year selectivity for F34-LL\_E\_Q23n



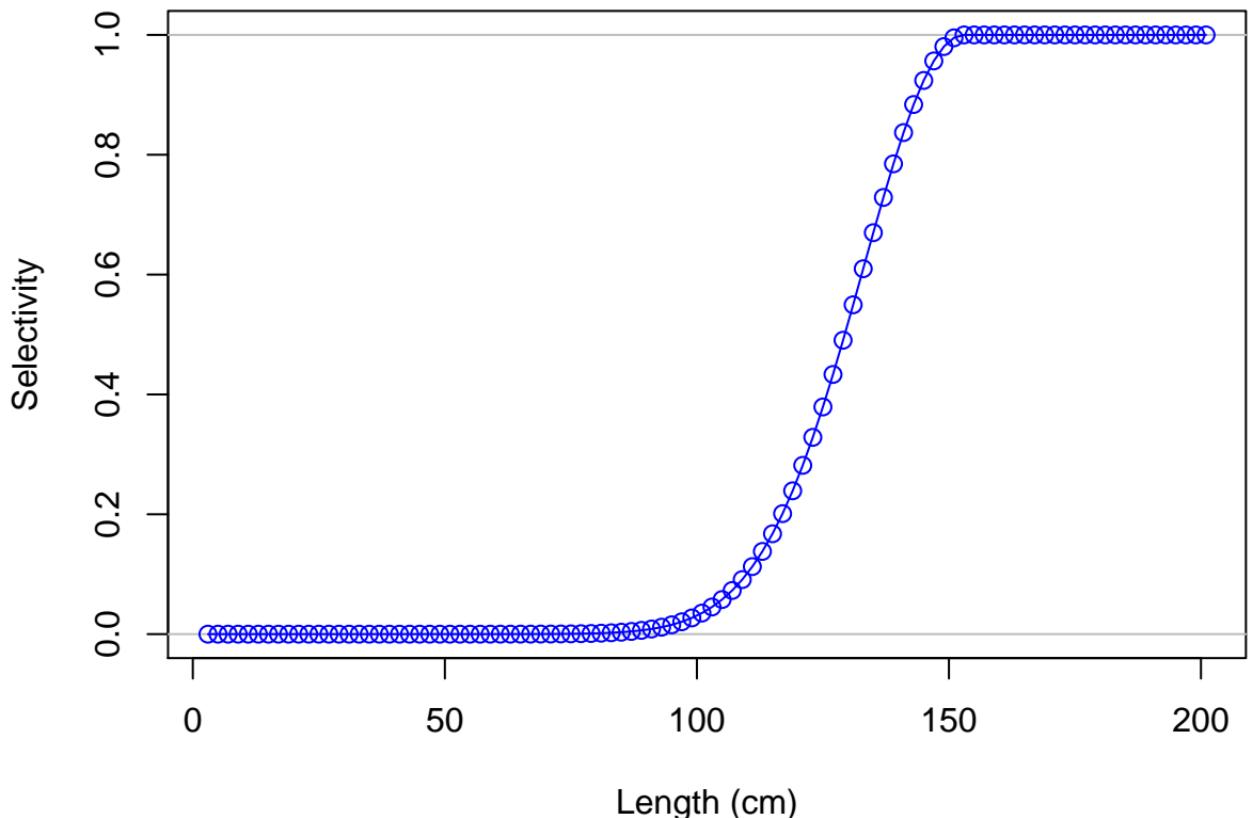
### Male ending year selectivity for F34-LL\_E\_Q23n



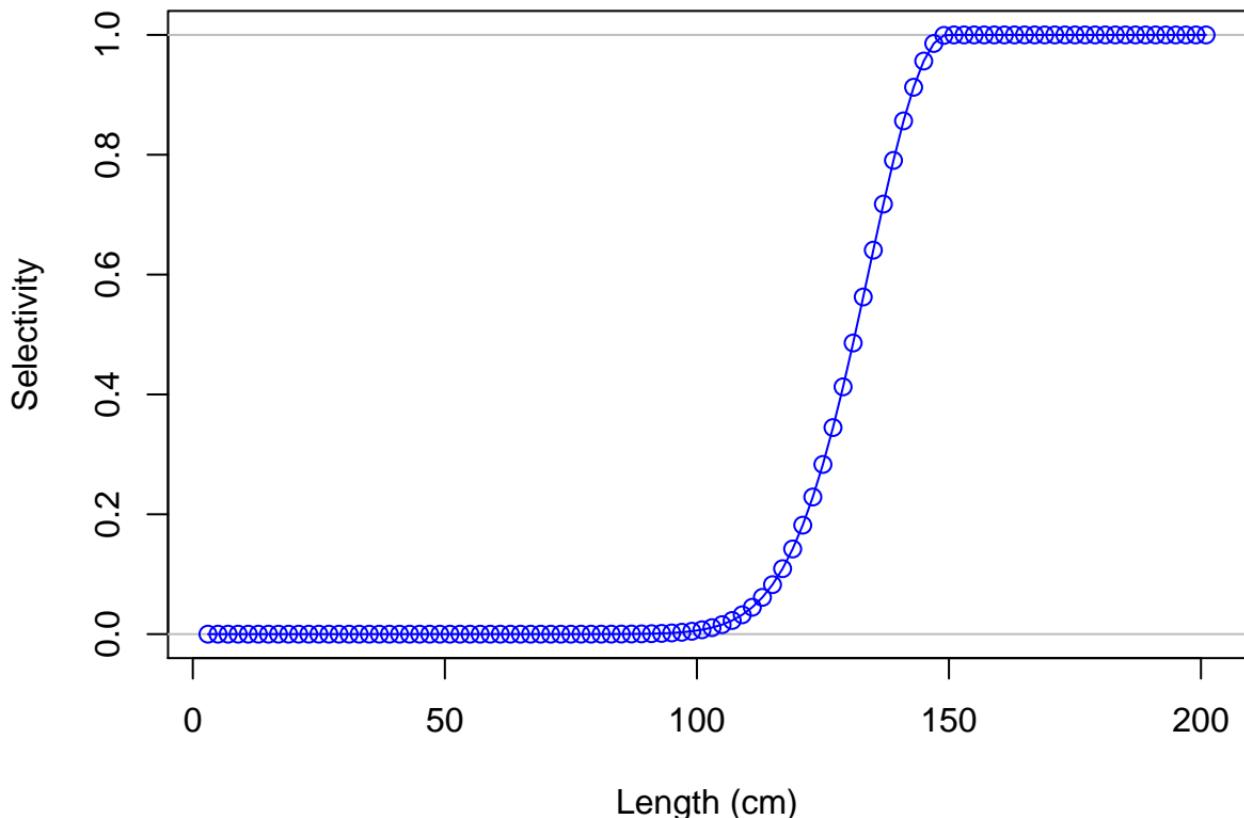
## Female ending year selectivity for F35-LL\_W\_Q14w



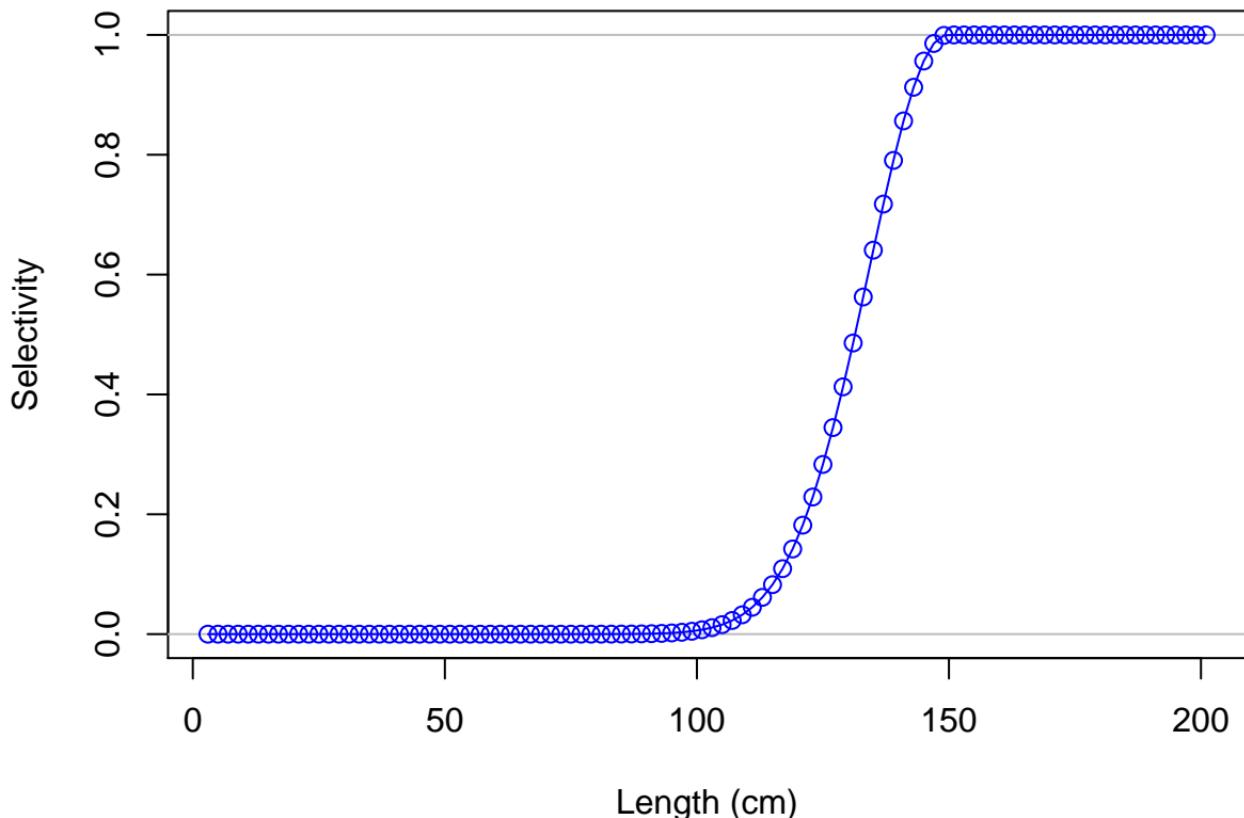
## Male ending year selectivity for F35-LL\_W\_Q14w



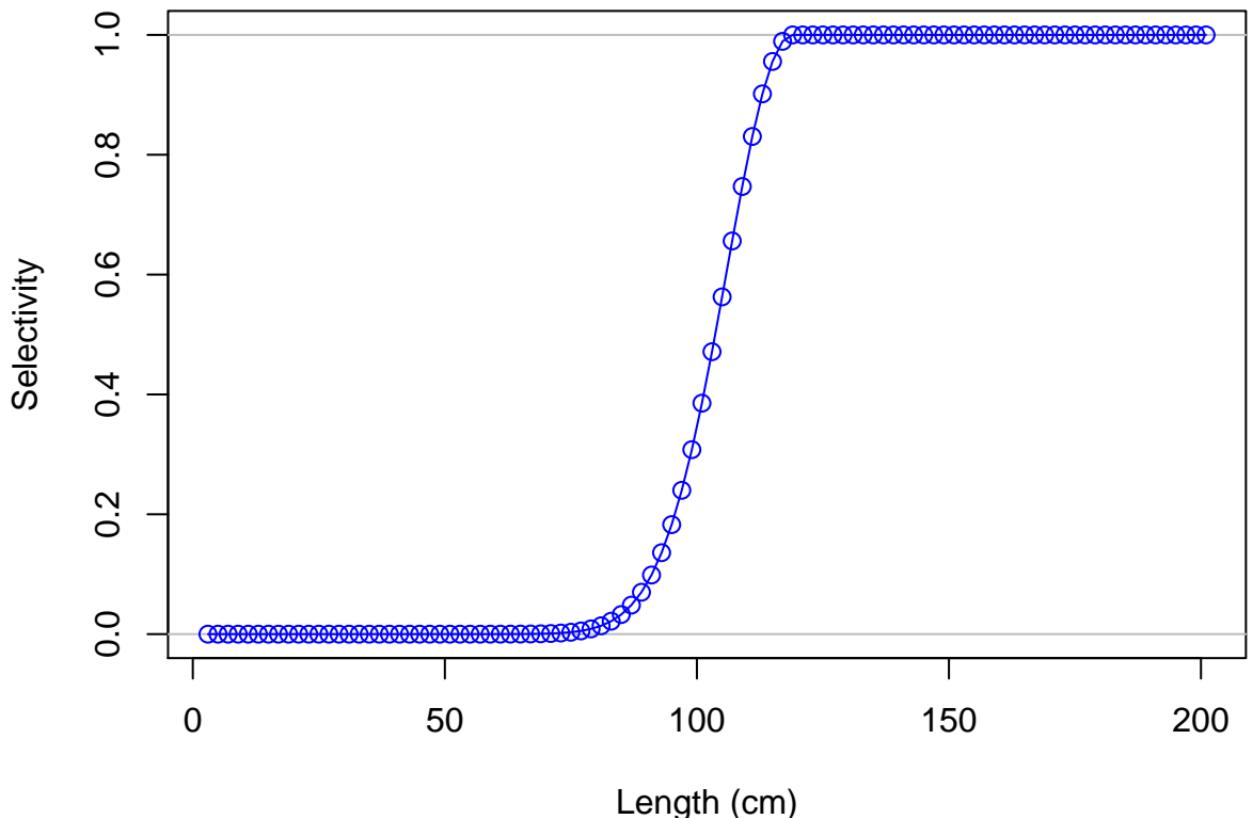
## Female ending year selectivity for F36-LL\_C\_Q14w



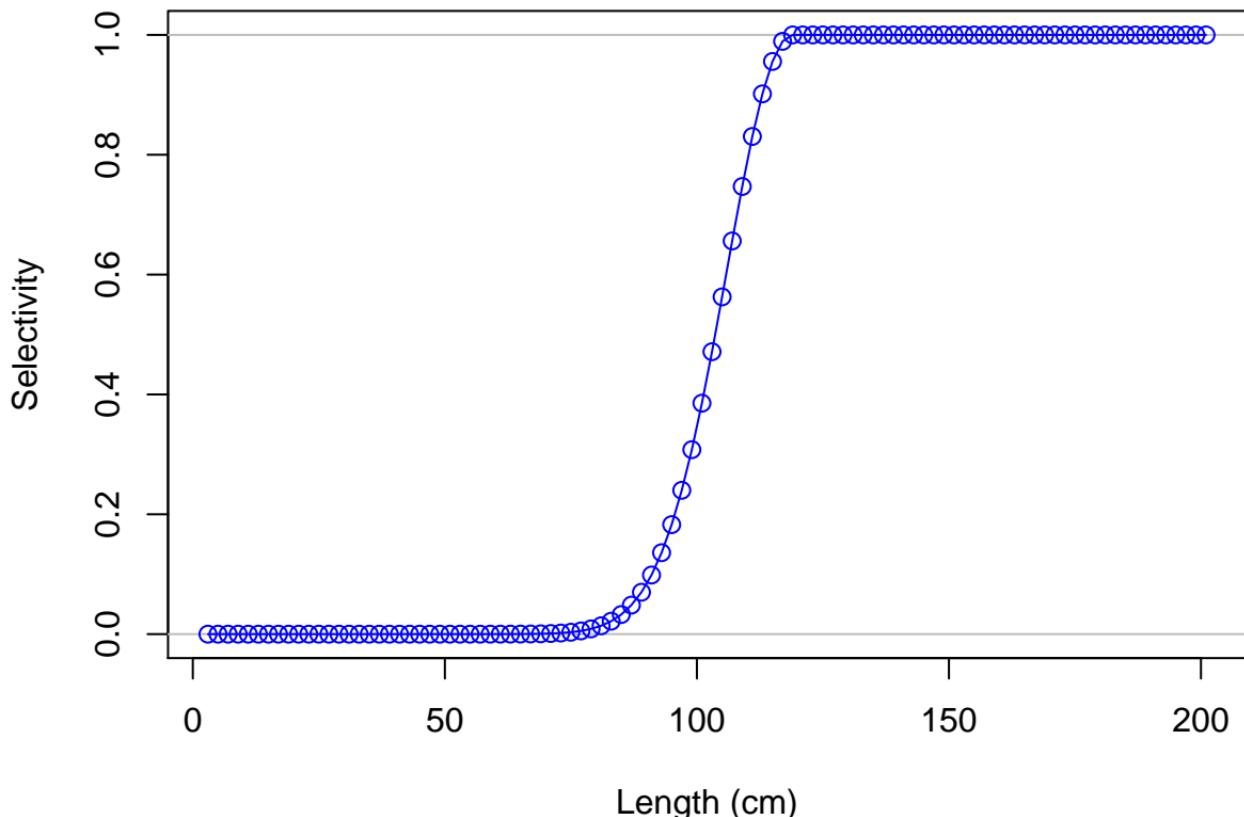
### Male ending year selectivity for F36-LL\_C\_Q14w



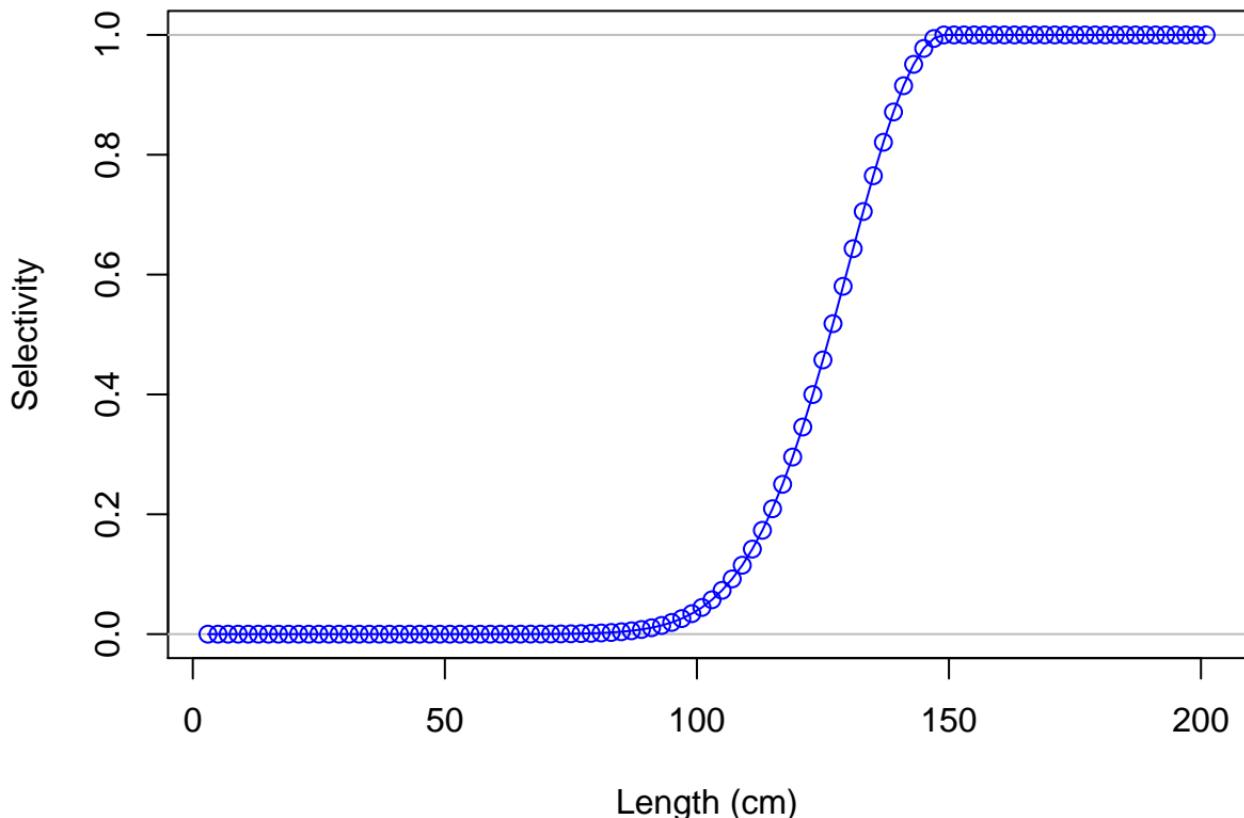
## Female ending year selectivity for F37-LL\_E\_Q14w



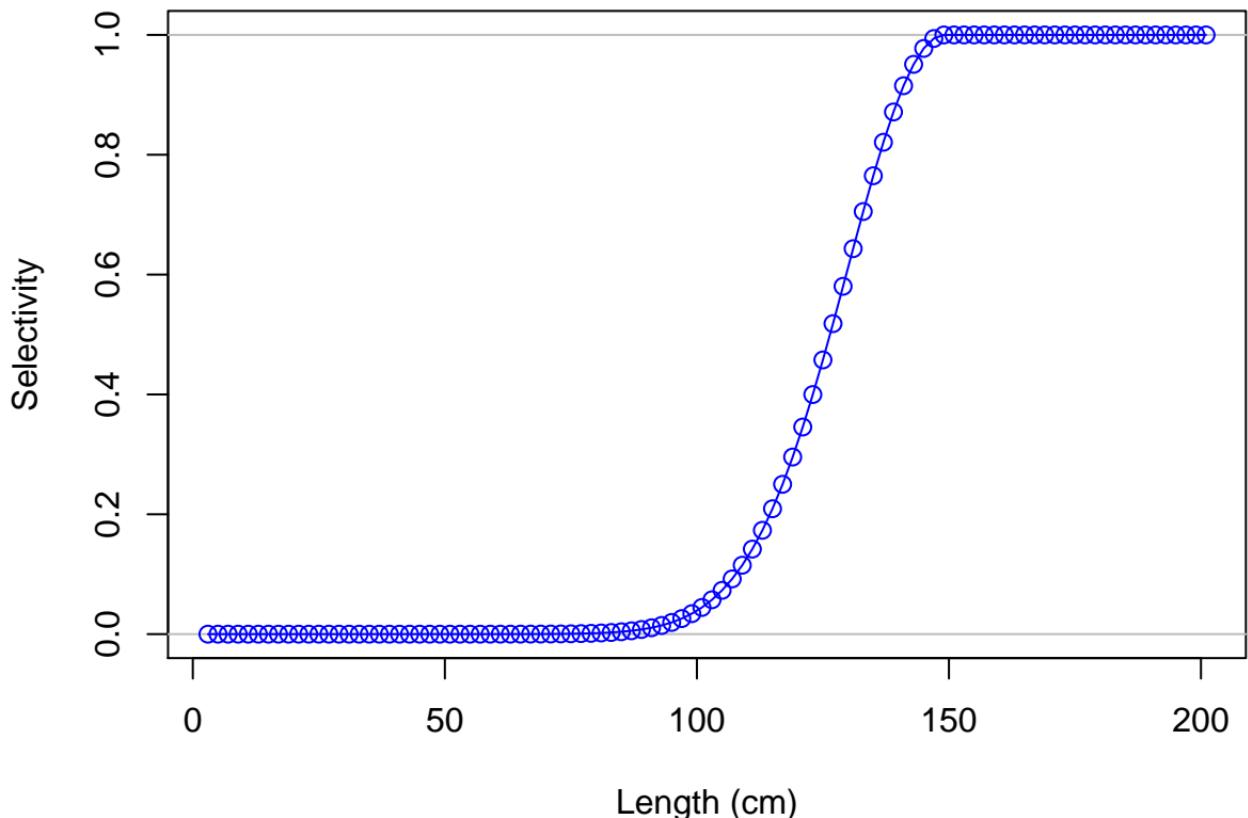
### Male ending year selectivity for F37-LL\_E\_Q14w



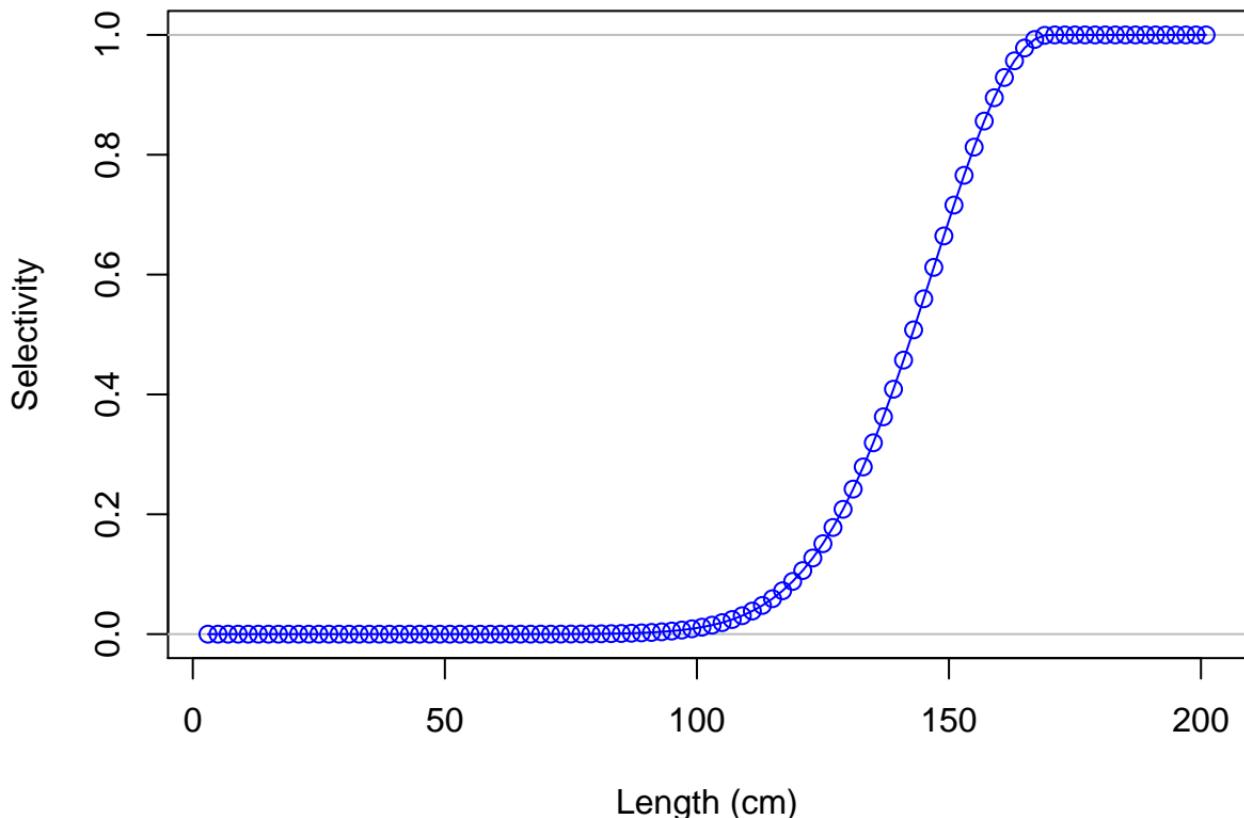
## Female ending year selectivity for F38-LL\_W\_Q23w



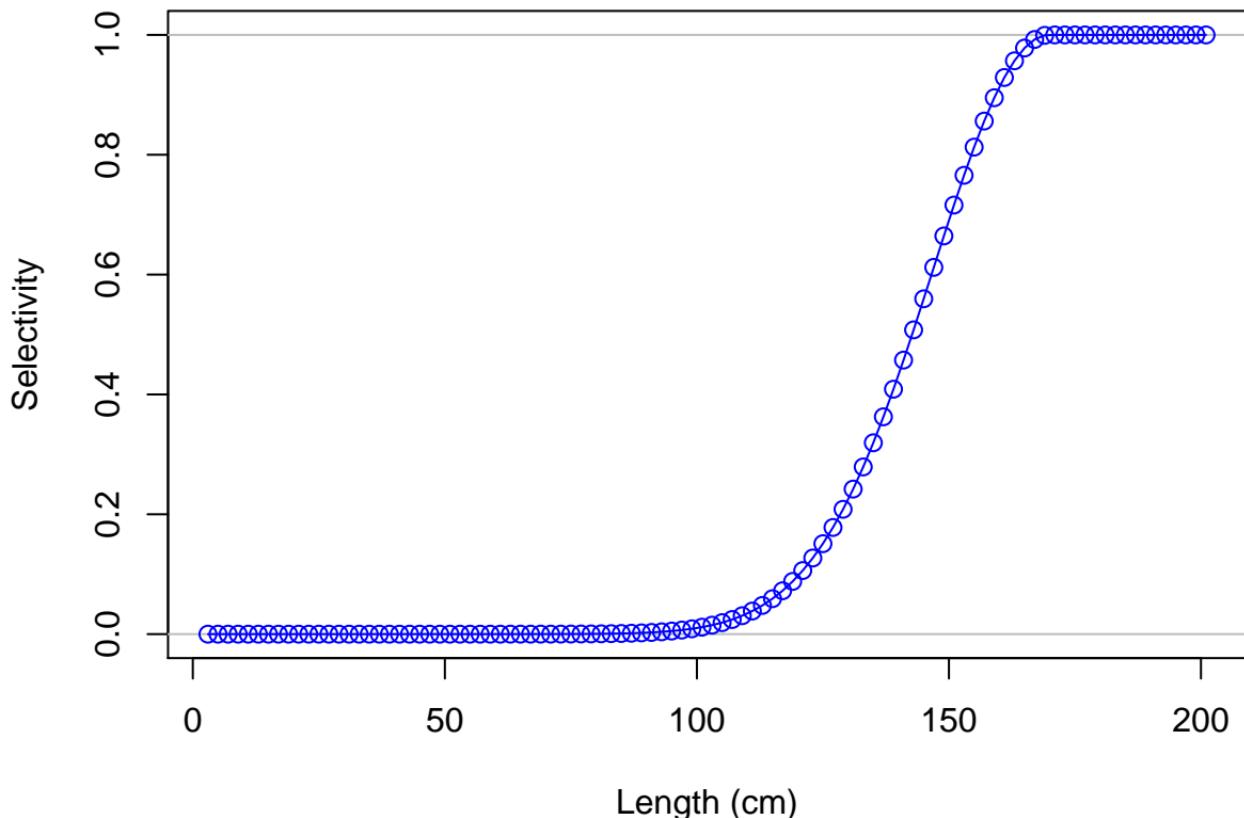
### Male ending year selectivity for F38-LL\_W\_Q23w



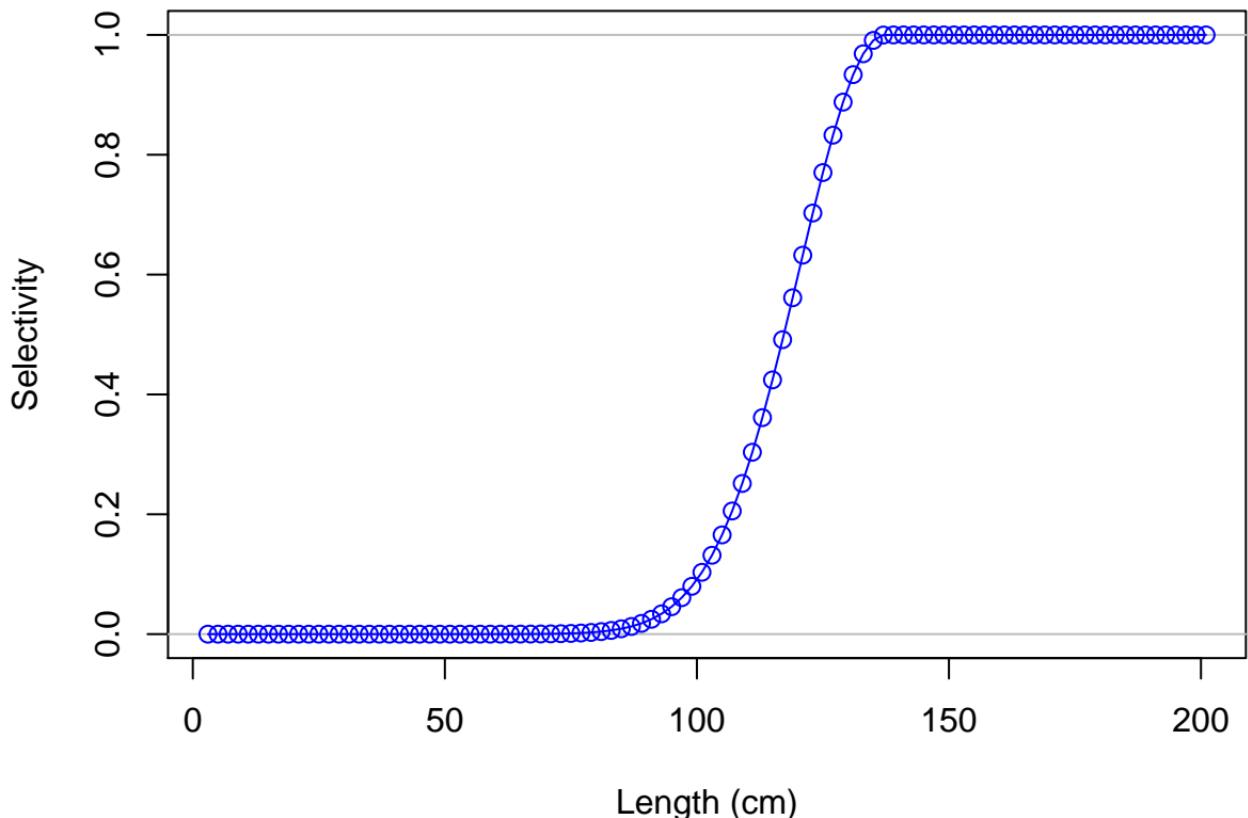
## Female ending year selectivity for F39-LL\_C\_Q23w



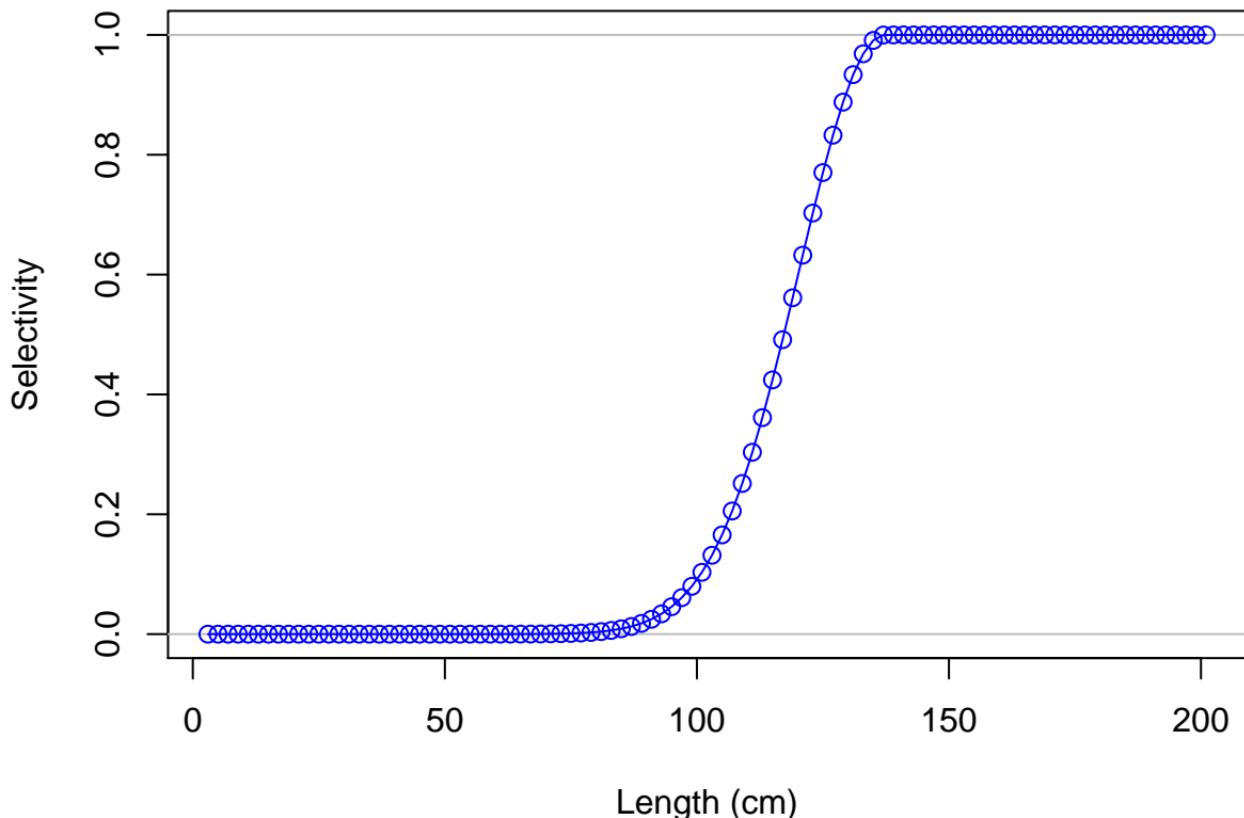
### Male ending year selectivity for F39-LL\_C\_Q23w



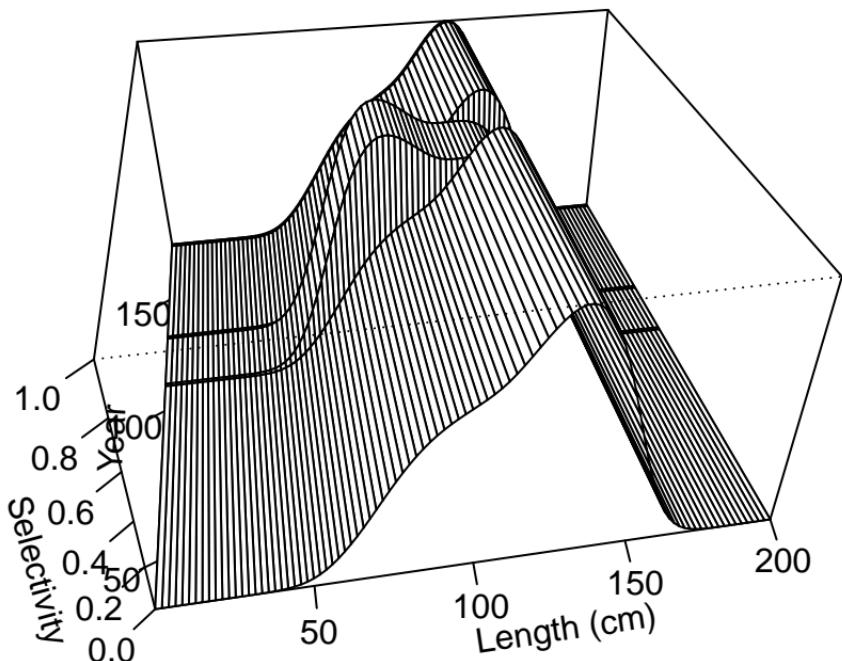
## Female ending year selectivity for F40-LL\_E\_Q23w



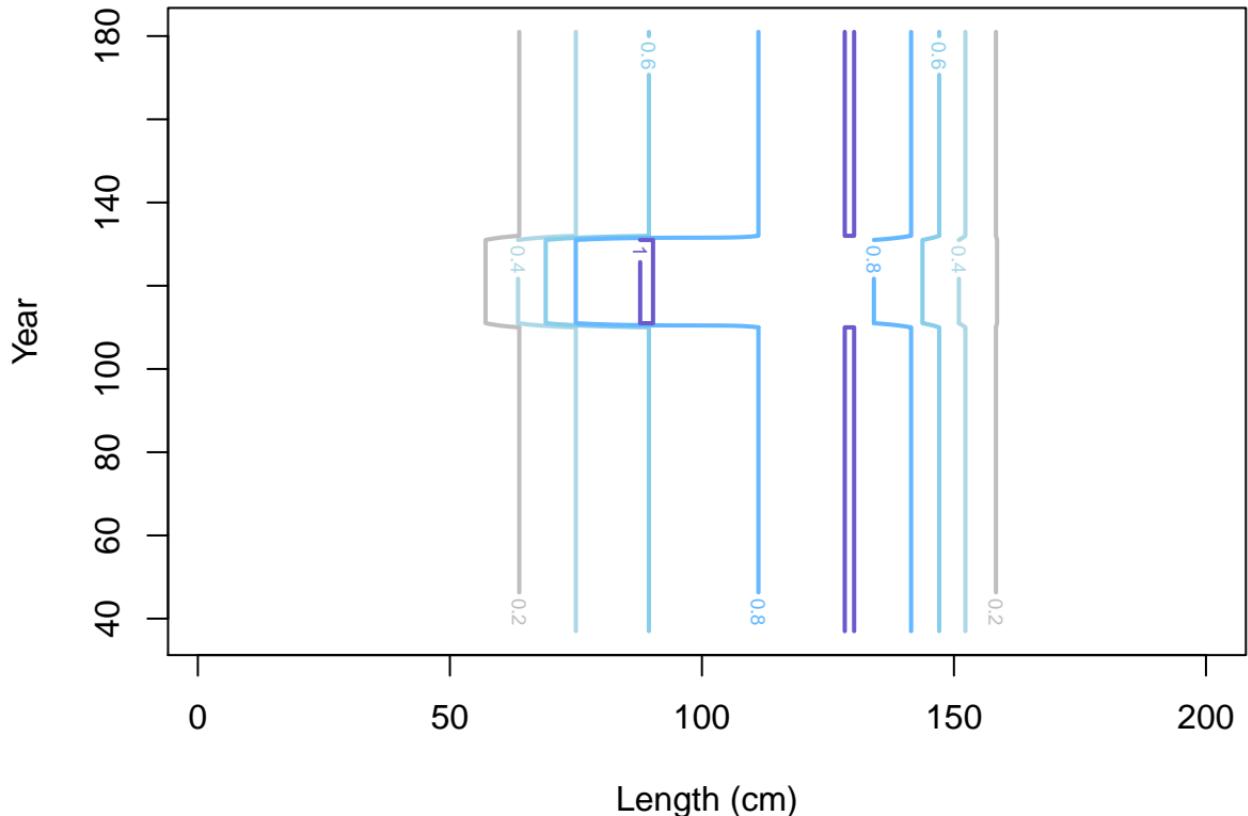
## Male ending year selectivity for F40-LL\_E\_Q23w



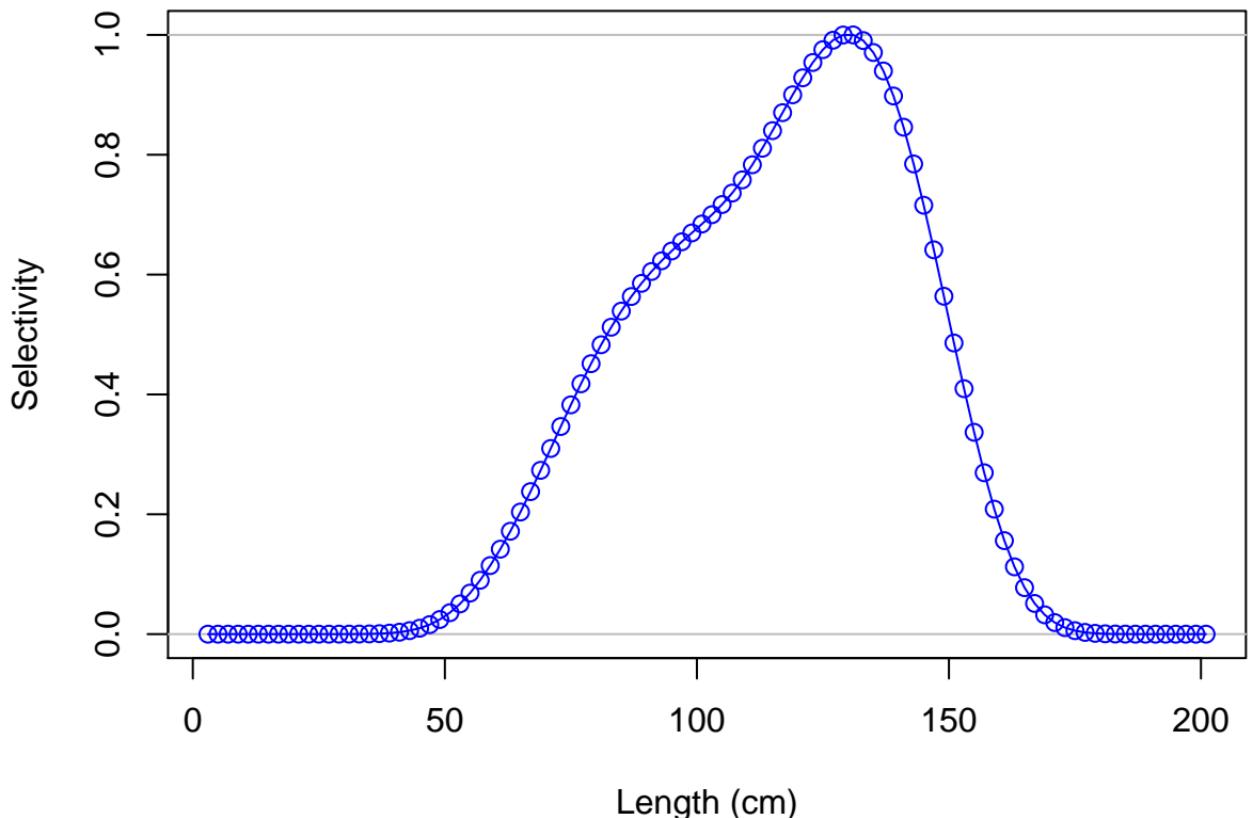
## Female time-varying selectivity for S1-PS\_DEL\_VAST



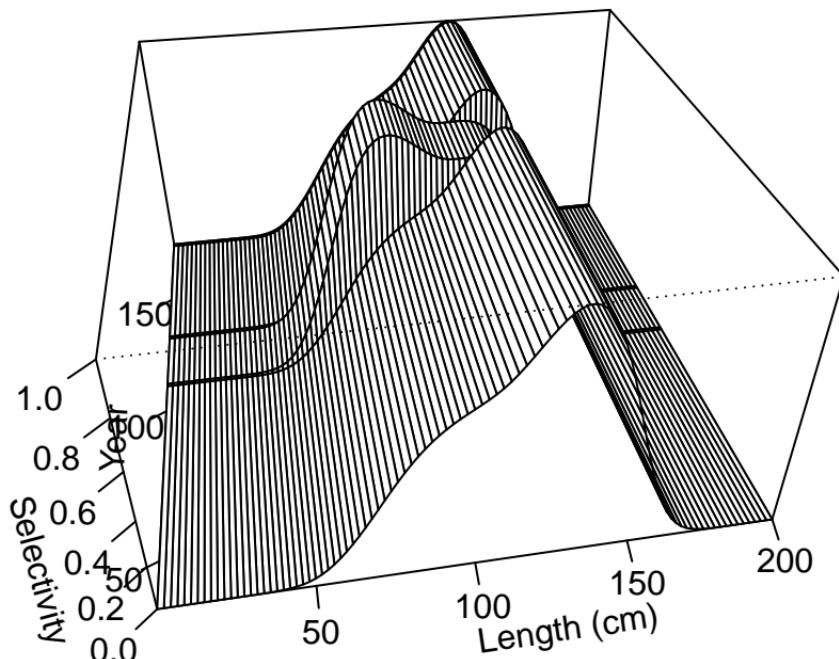
## Female time-varying selectivity for S1-PS\_DEL\_VAST



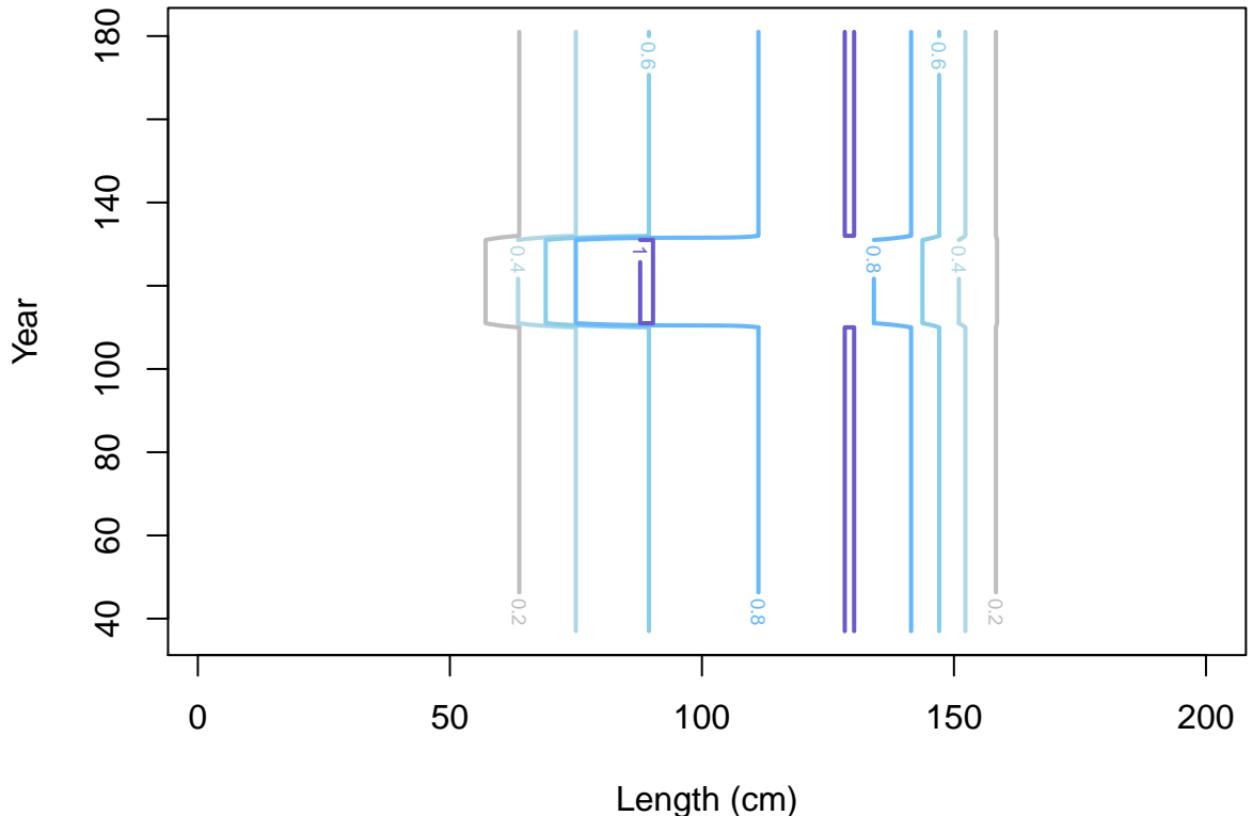
## Female ending year selectivity for S1-PS\_DEL\_VAST



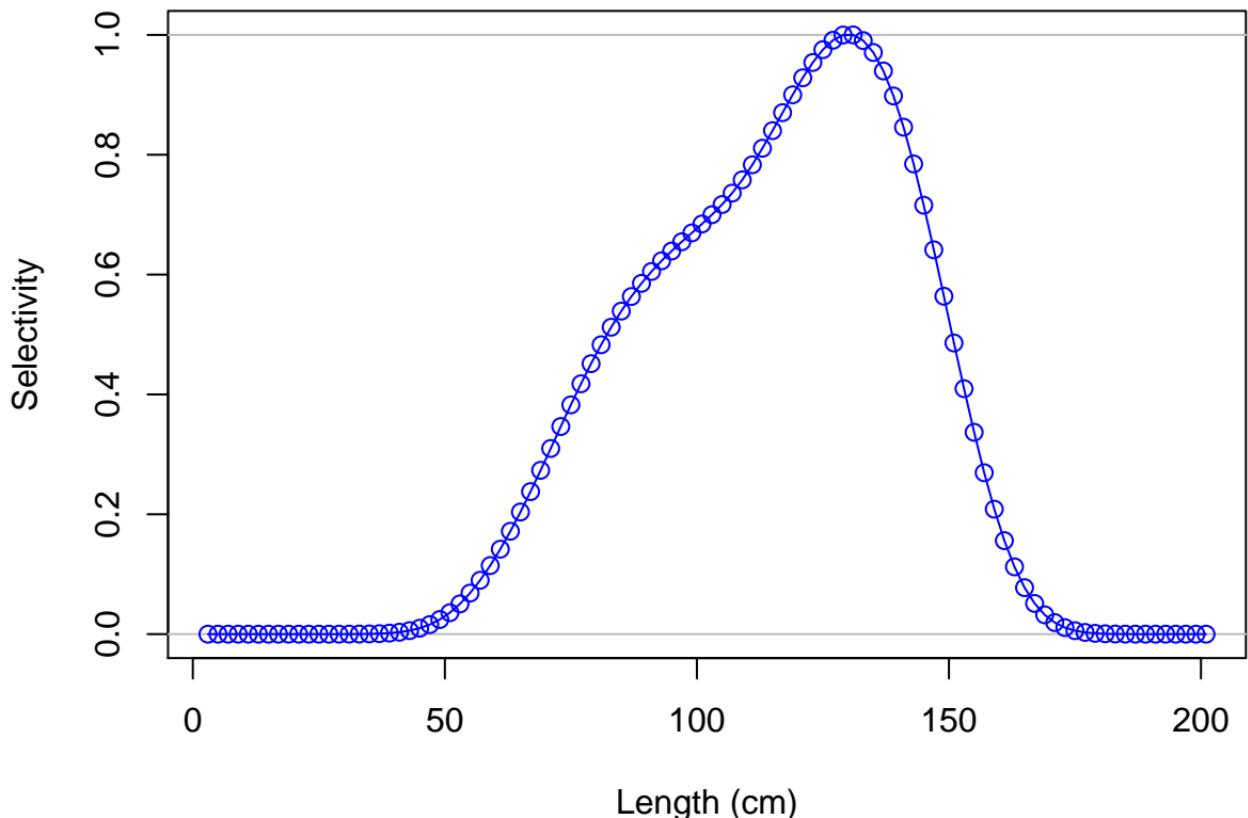
## Male time-varying selectivity for S1-PS\_DEL\_VAST



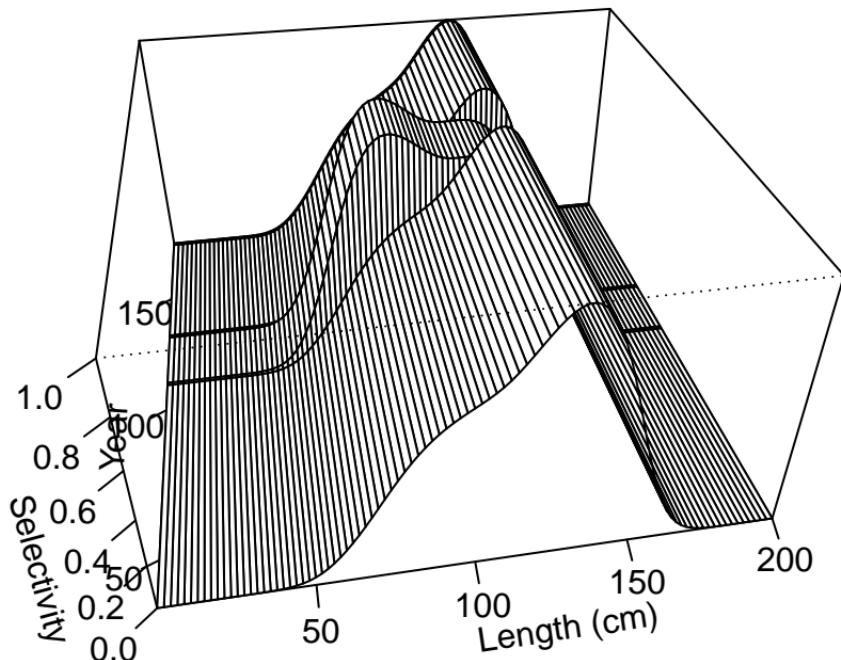
## Male time-varying selectivity for S1-PS\_DEL\_VAST



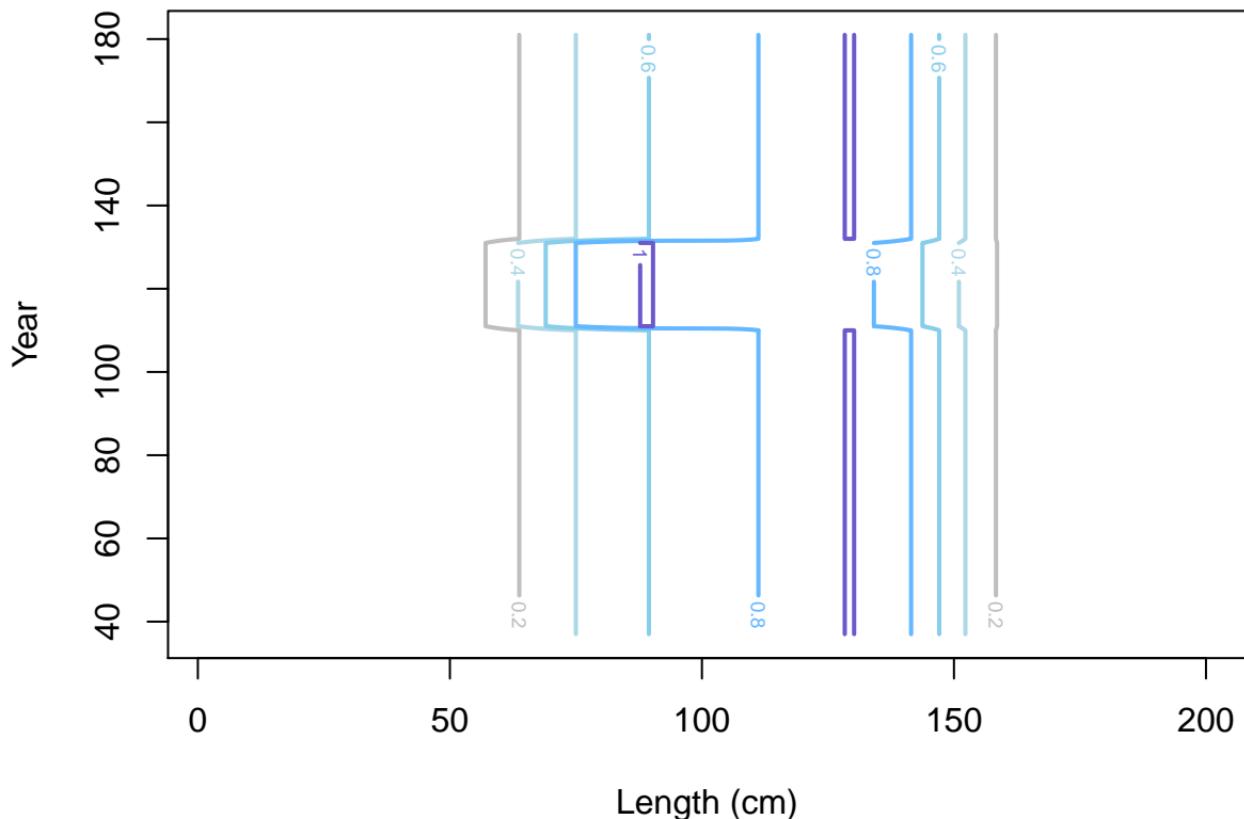
## Male ending year selectivity for S1-PS\_DEL\_VAST



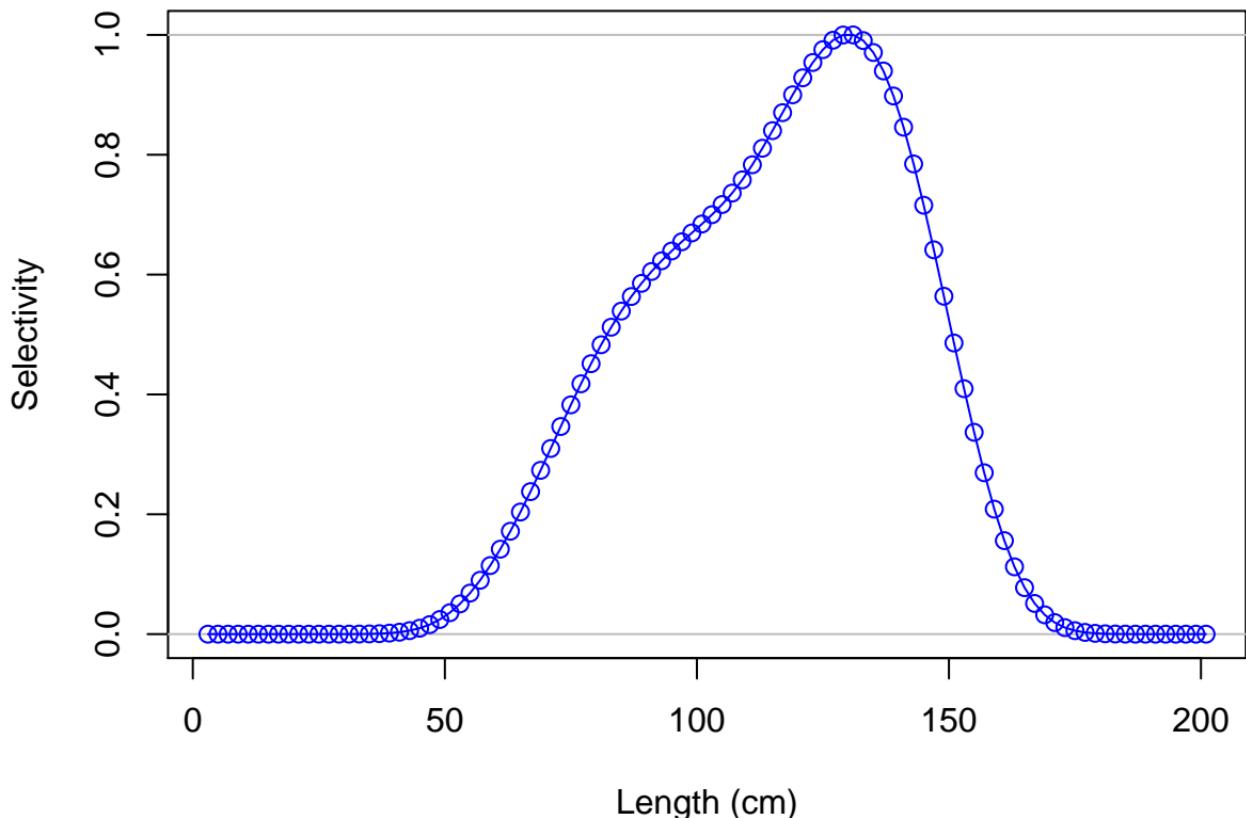
## Female time-varying selectivity for S4-PS\_middle\_VAST



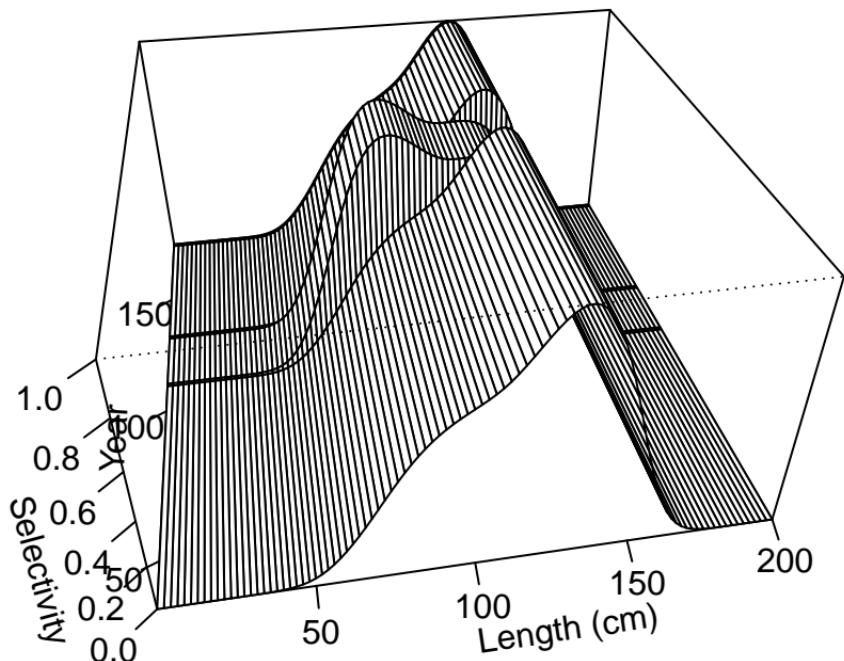
## Female time-varying selectivity for S4-PS\_middle\_VAST



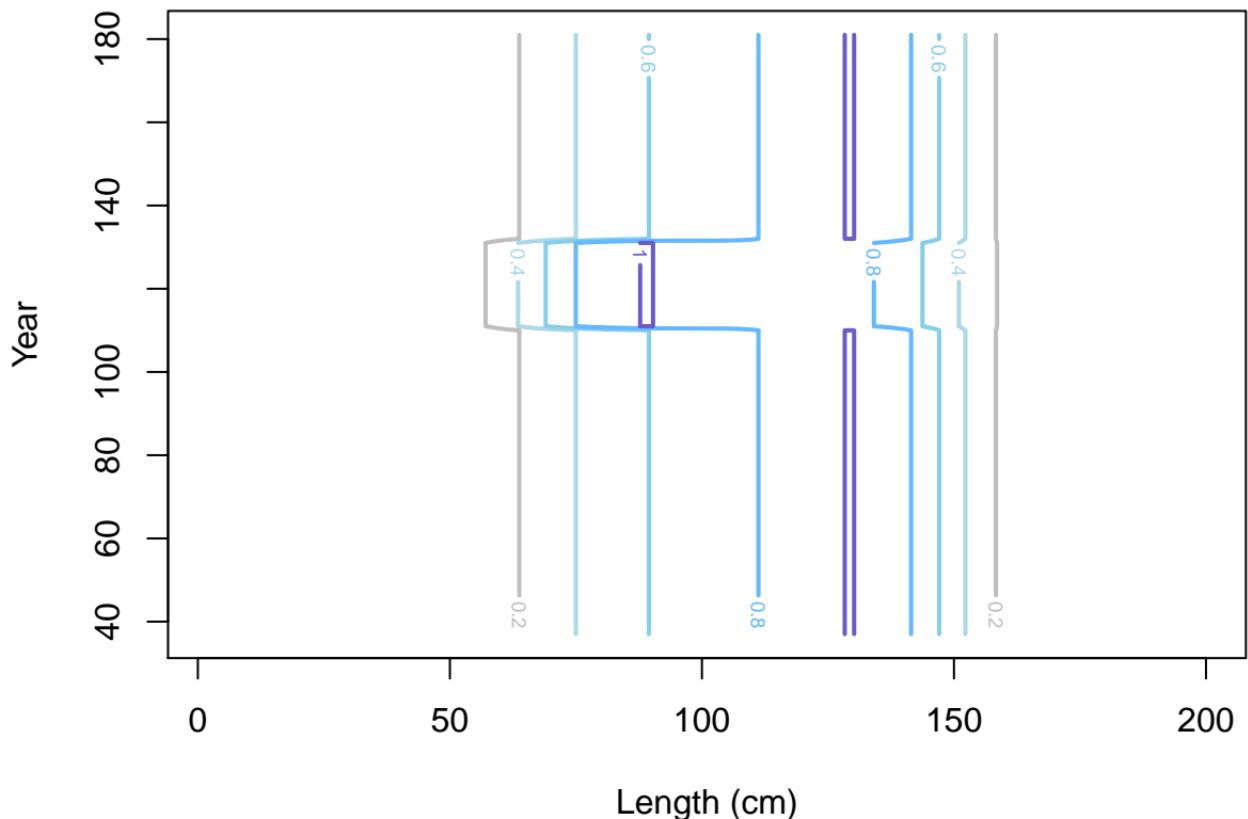
## Female ending year selectivity for S4-PS\_middle\_VAST



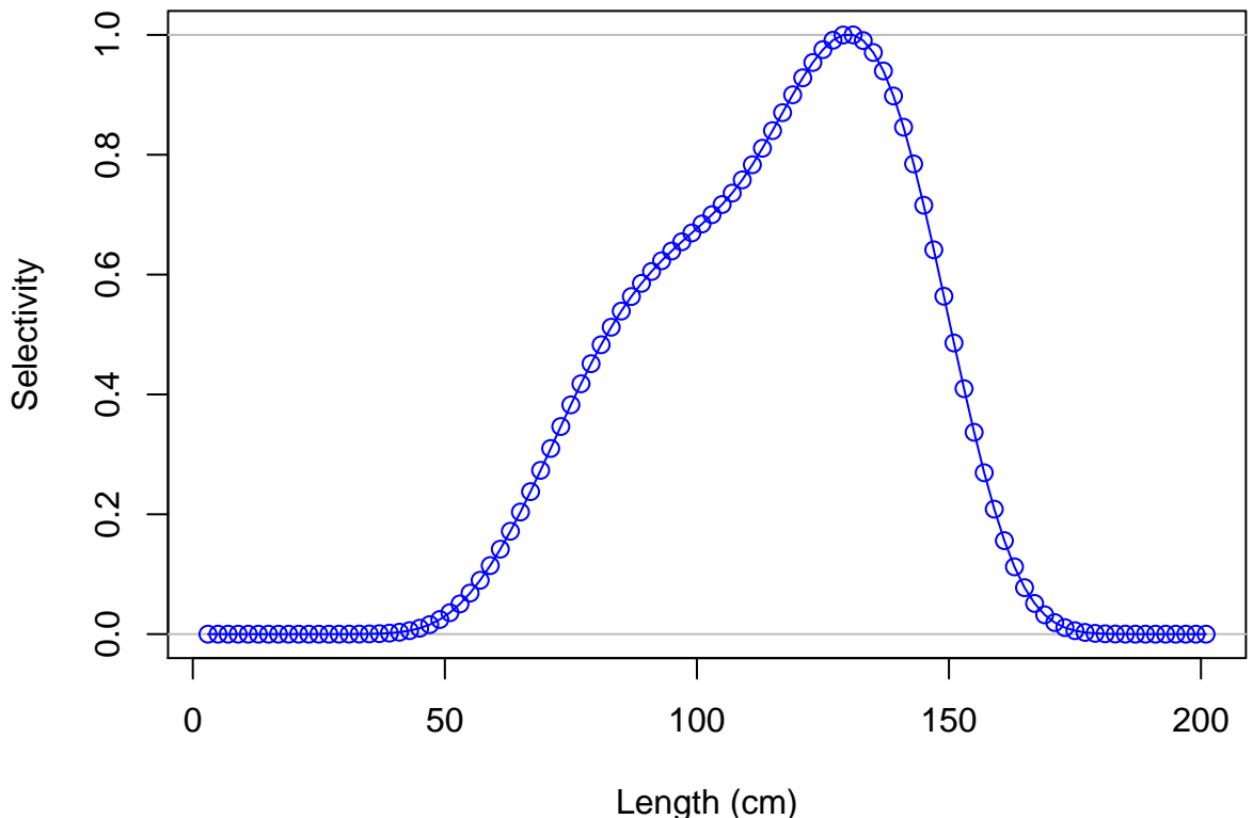
## Male time-varying selectivity for S4-PS\_middle\_VAST



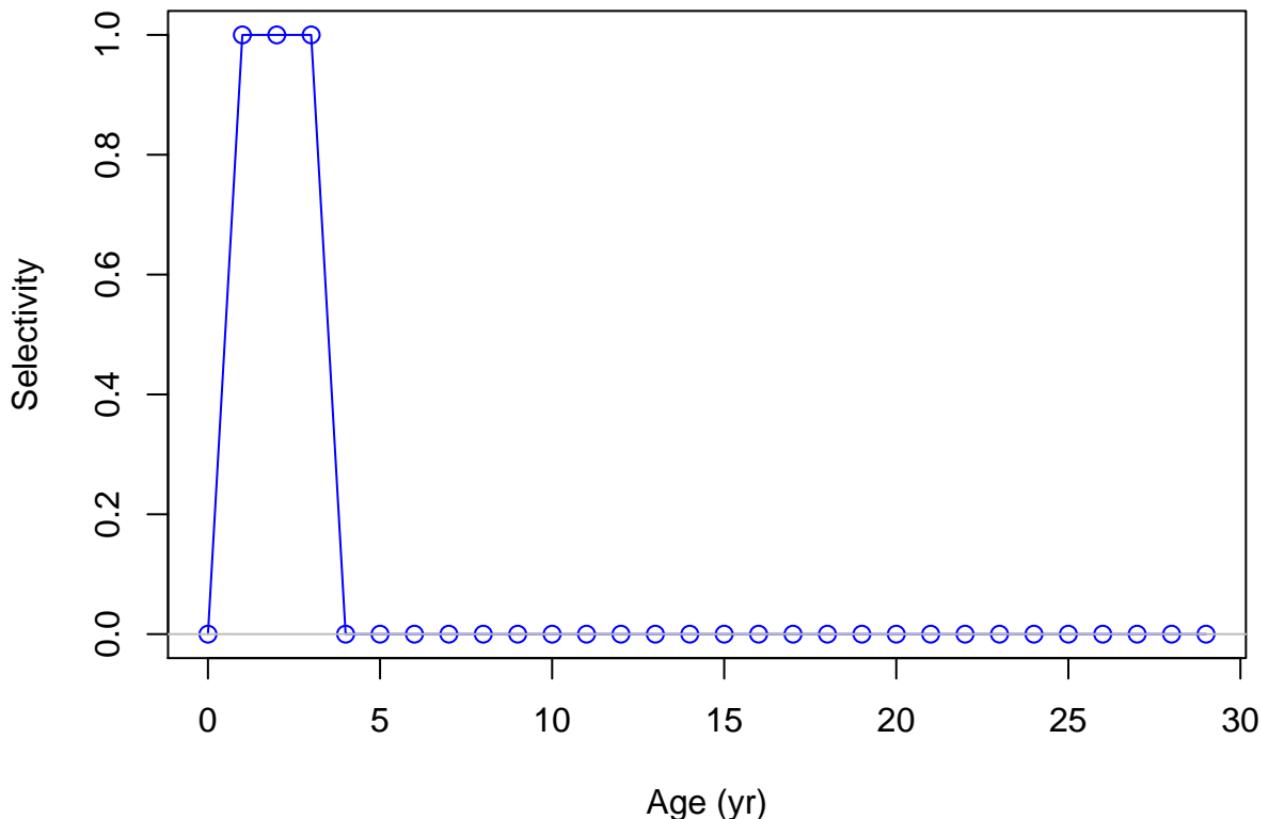
## Male time-varying selectivity for S4-PS\_middle\_VAST



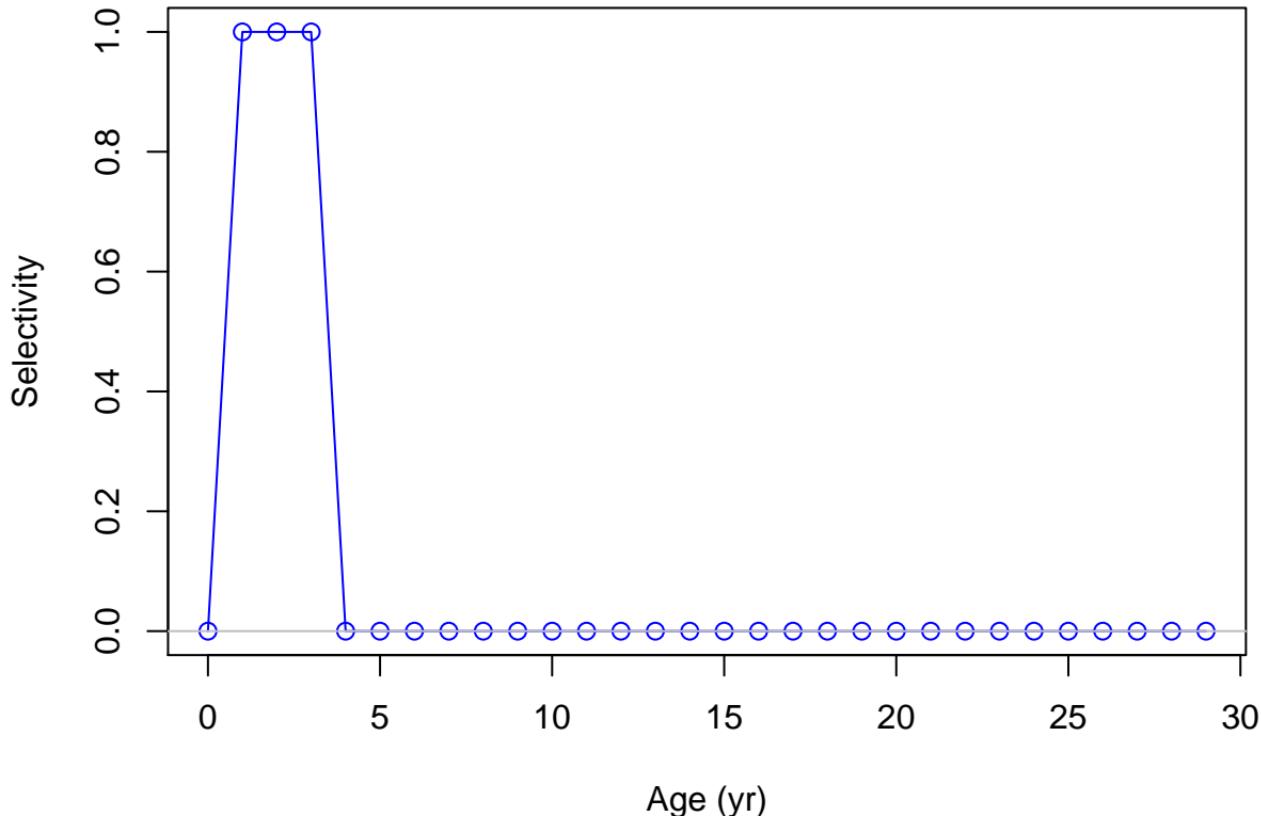
## Male ending year selectivity for S4-PS\_middle\_VAST



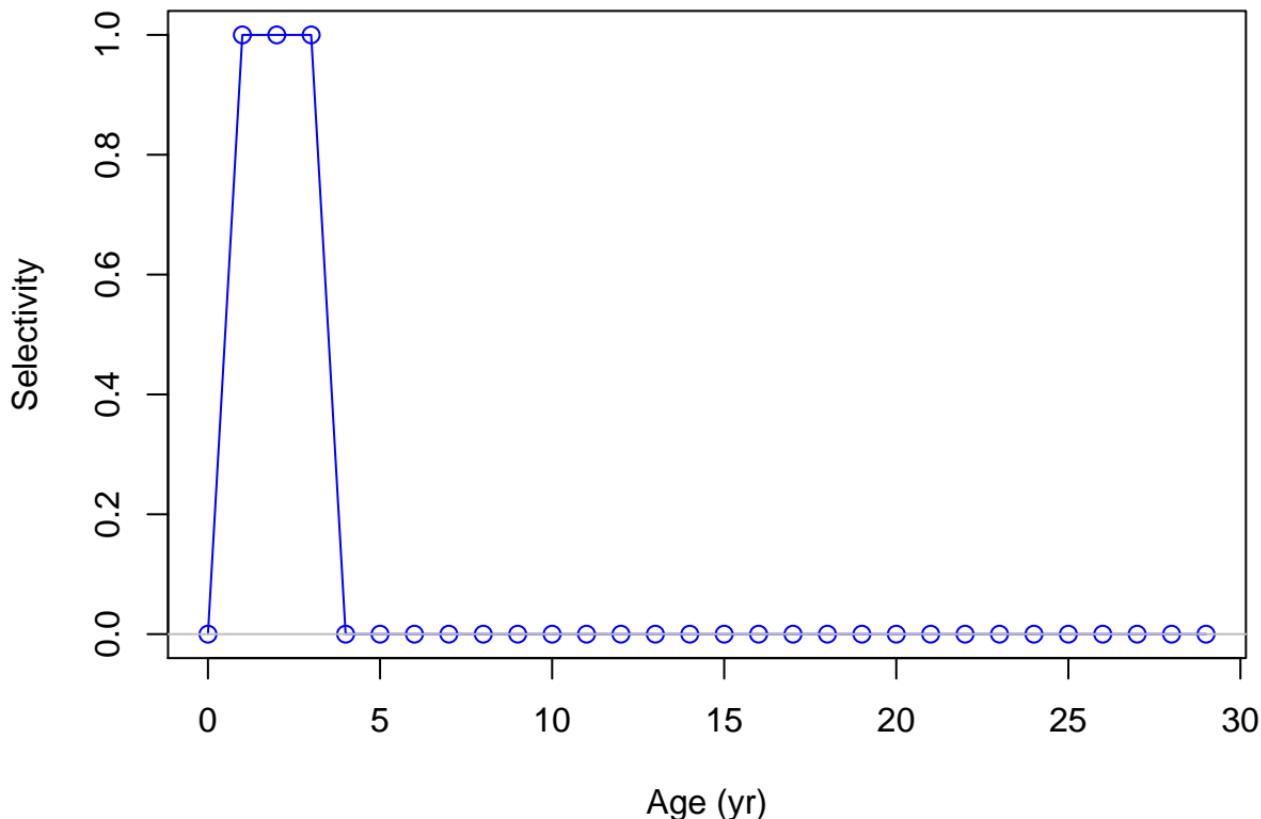
## Female ending year selectivity for F25–OBJ\_S\_disc



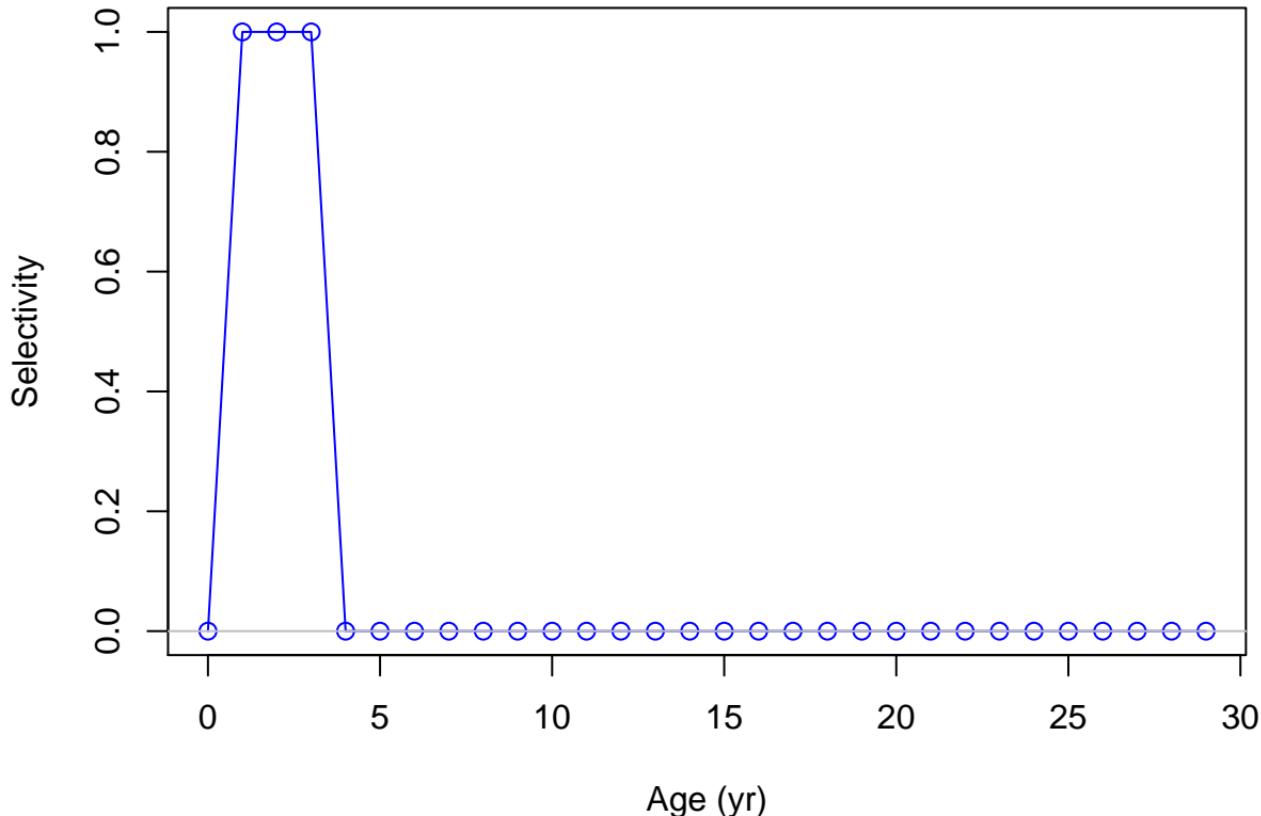
### Male ending year selectivity for F25–OBJ\_S\_disc



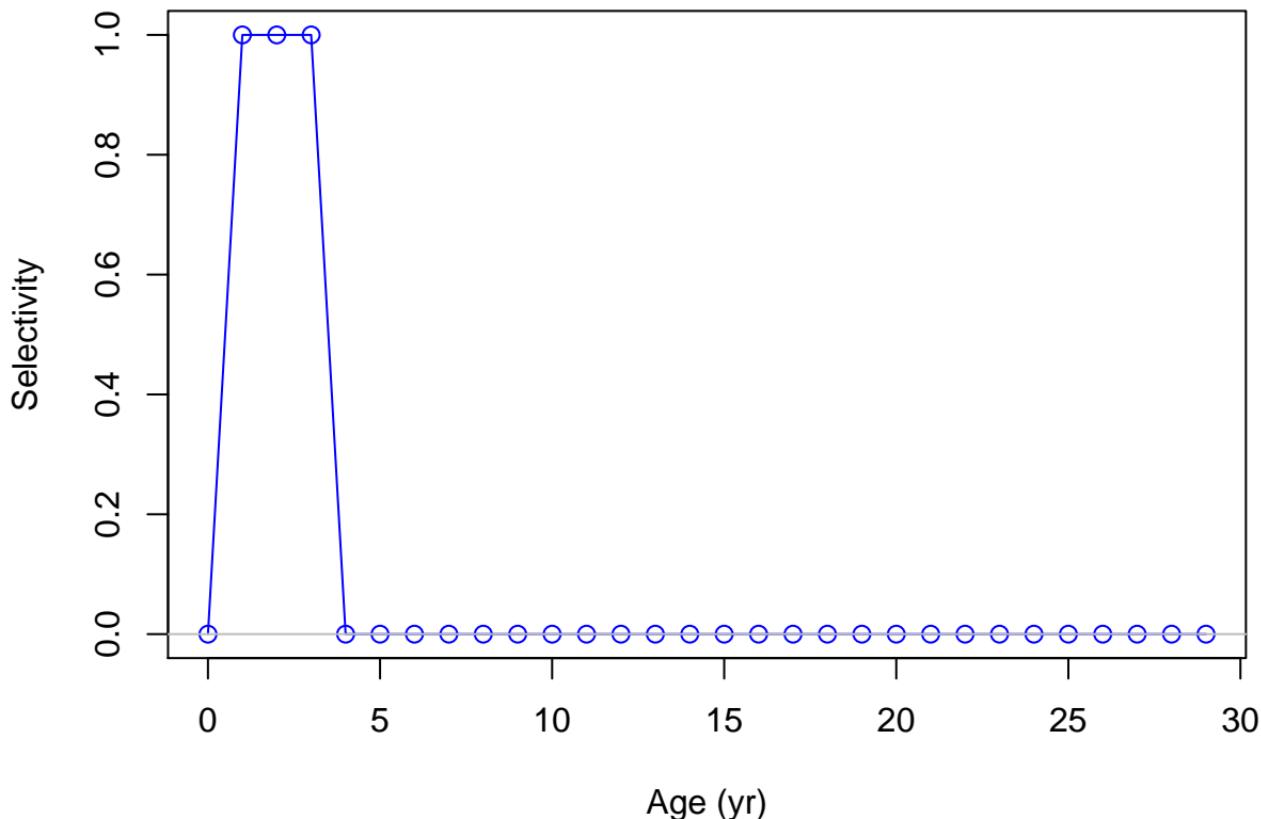
## Female ending year selectivity for F26-OBJ\_C\_disc



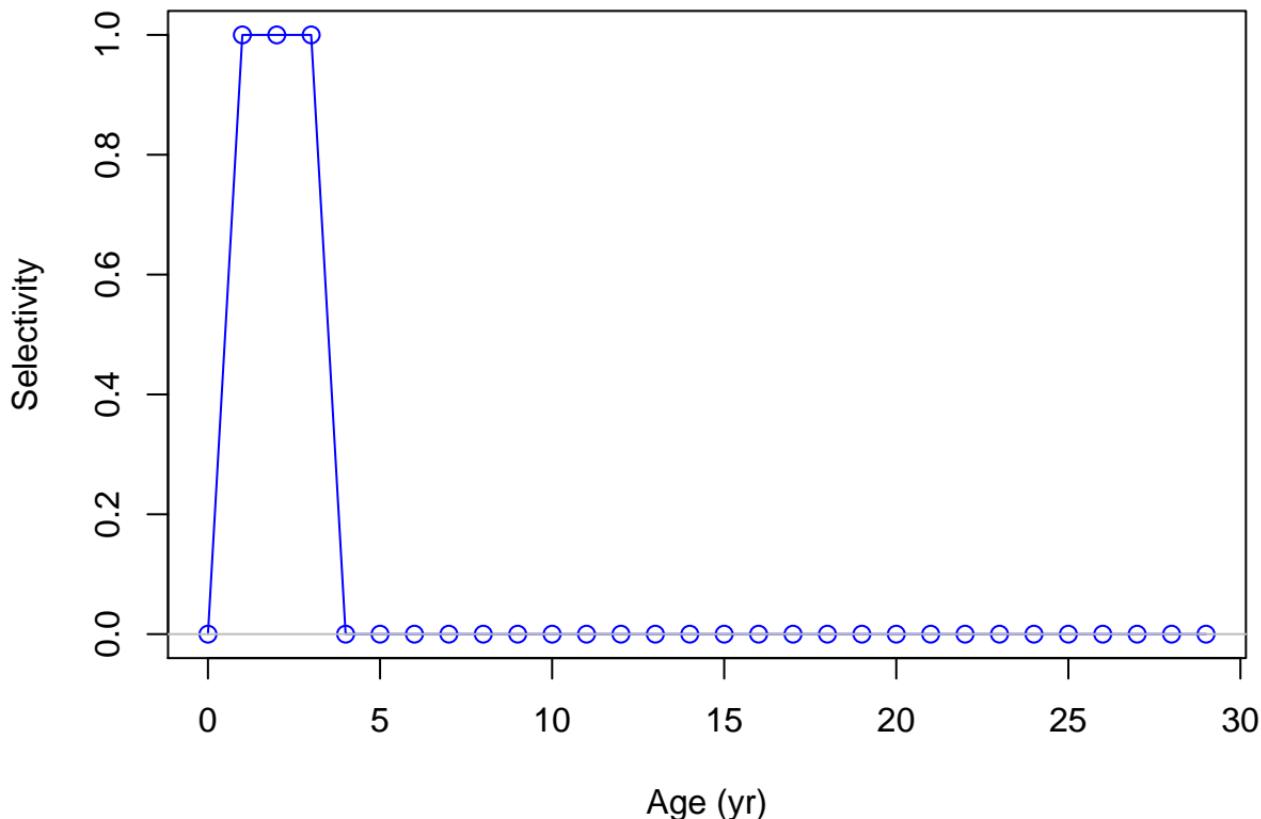
### Male ending year selectivity for F26–OBJ\_C\_disc



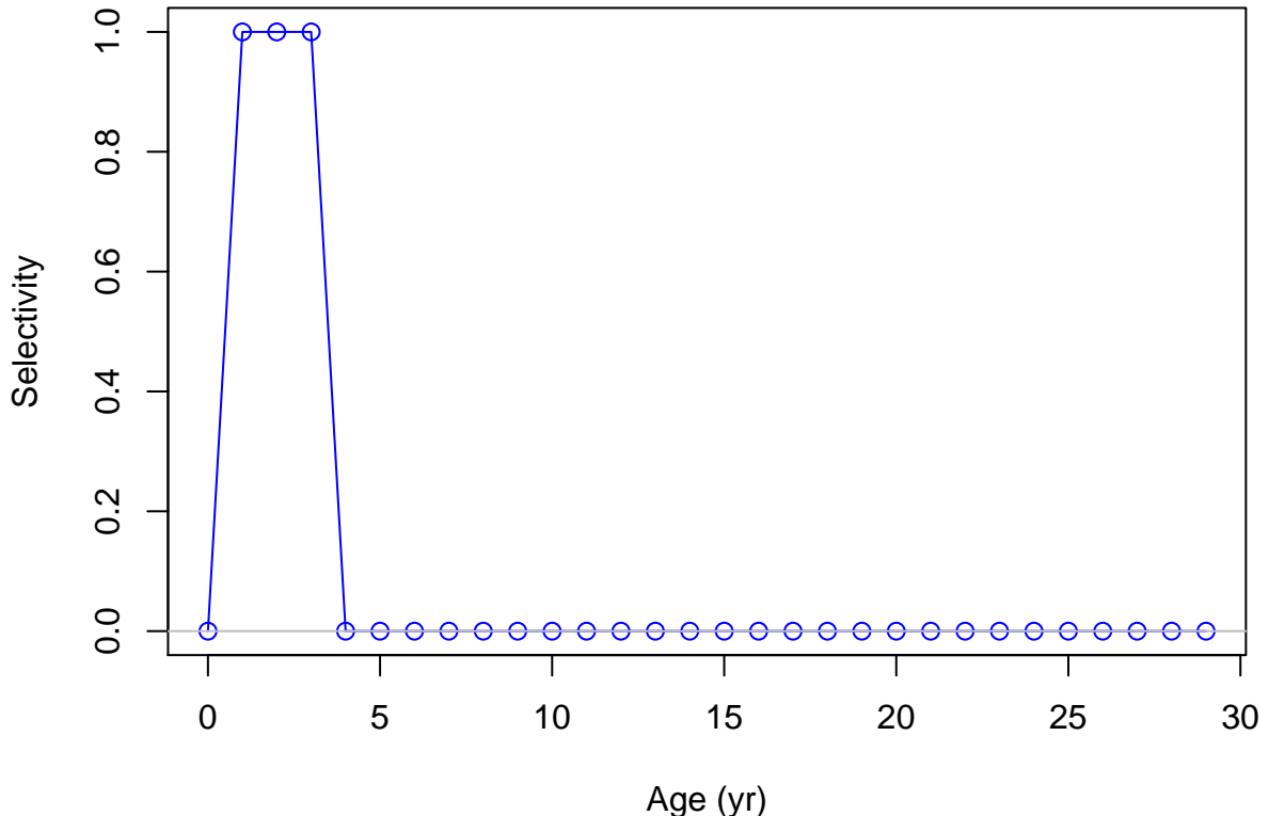
### Female ending year selectivity for F27–OBJ\_I\_disc



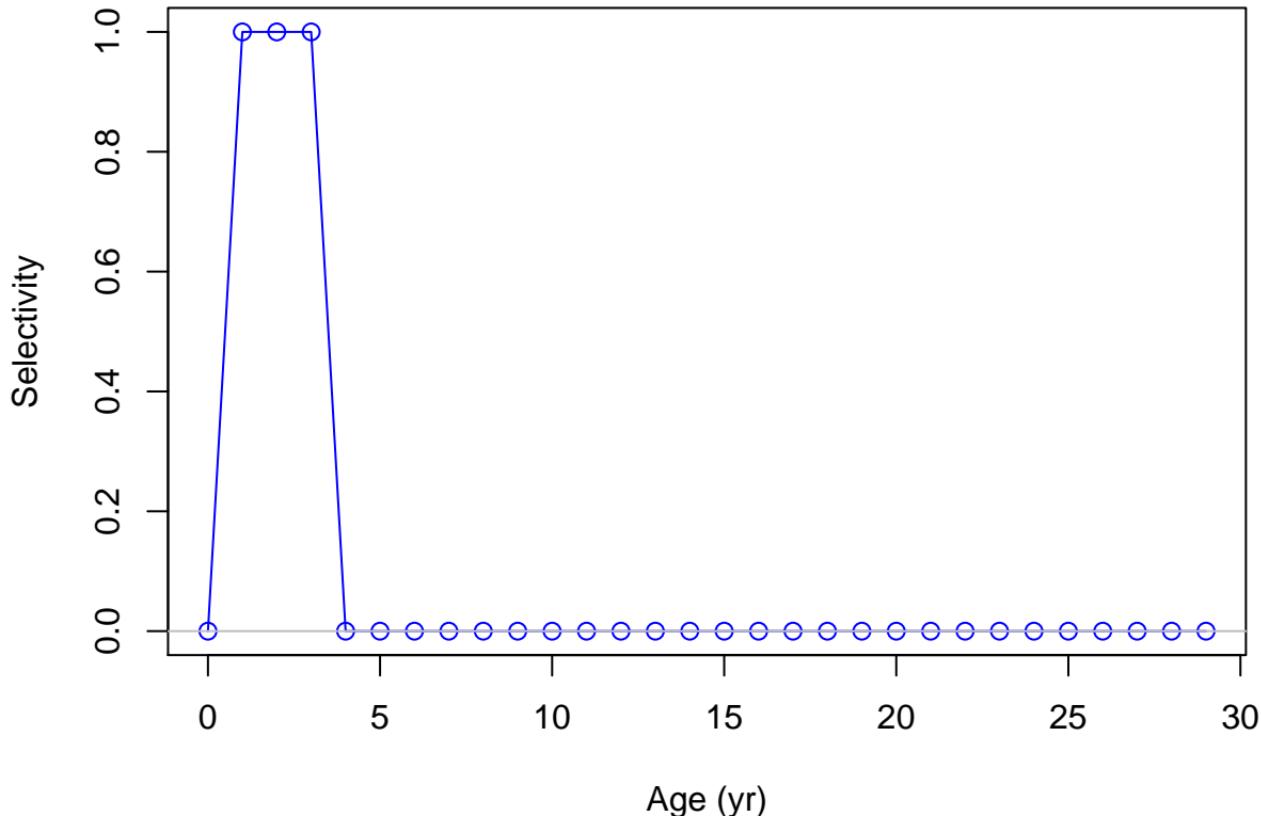
### Male ending year selectivity for F27-OBJ\_I\_disc



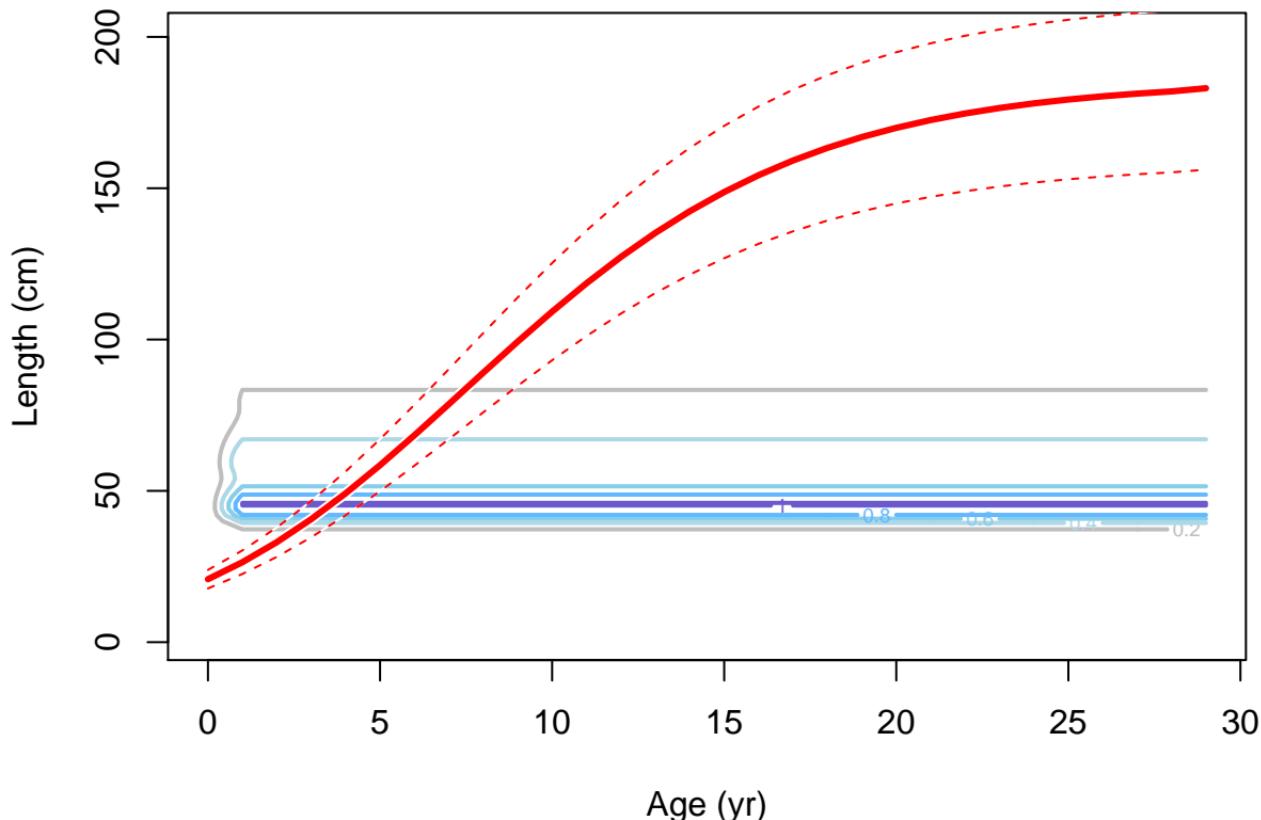
### Female ending year selectivity for F28–OBJ\_N\_disc



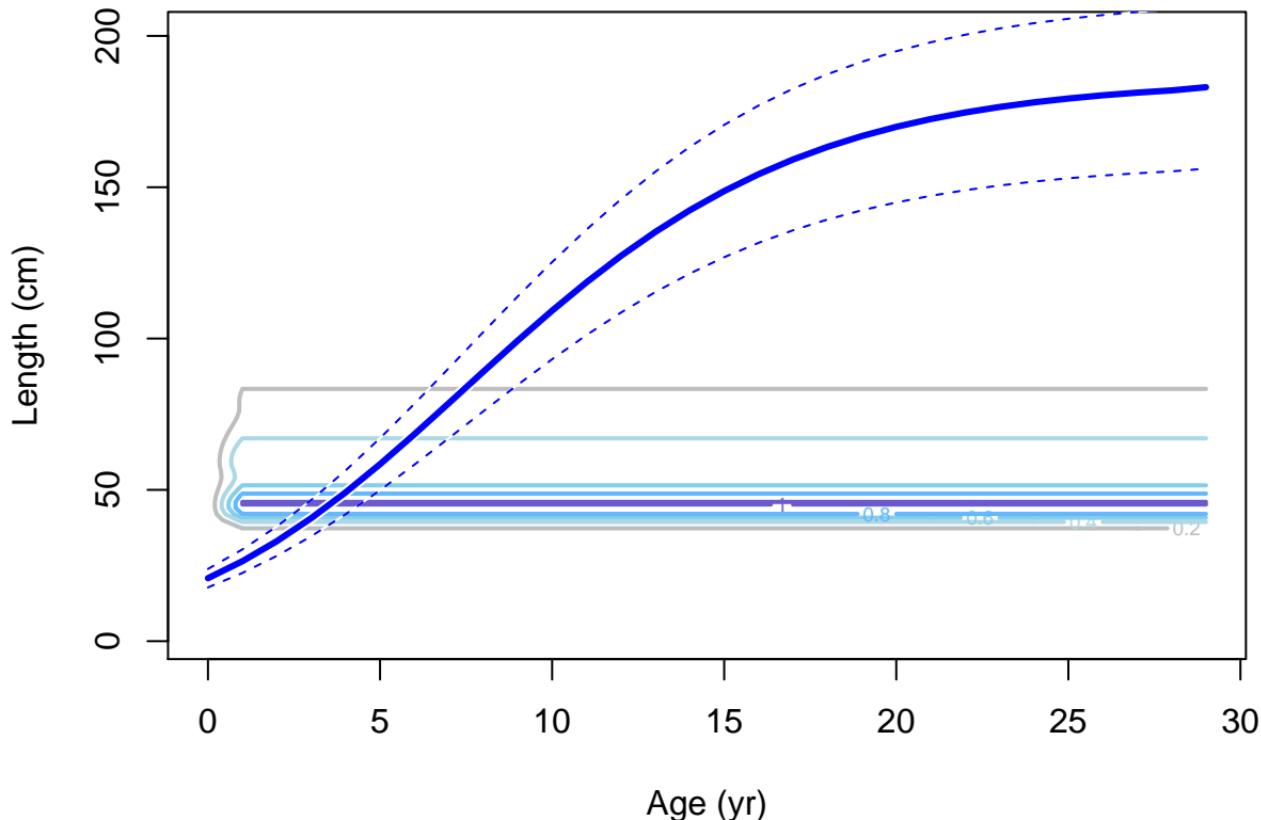
### Male ending year selectivity for F28–OBJ\_N\_disc



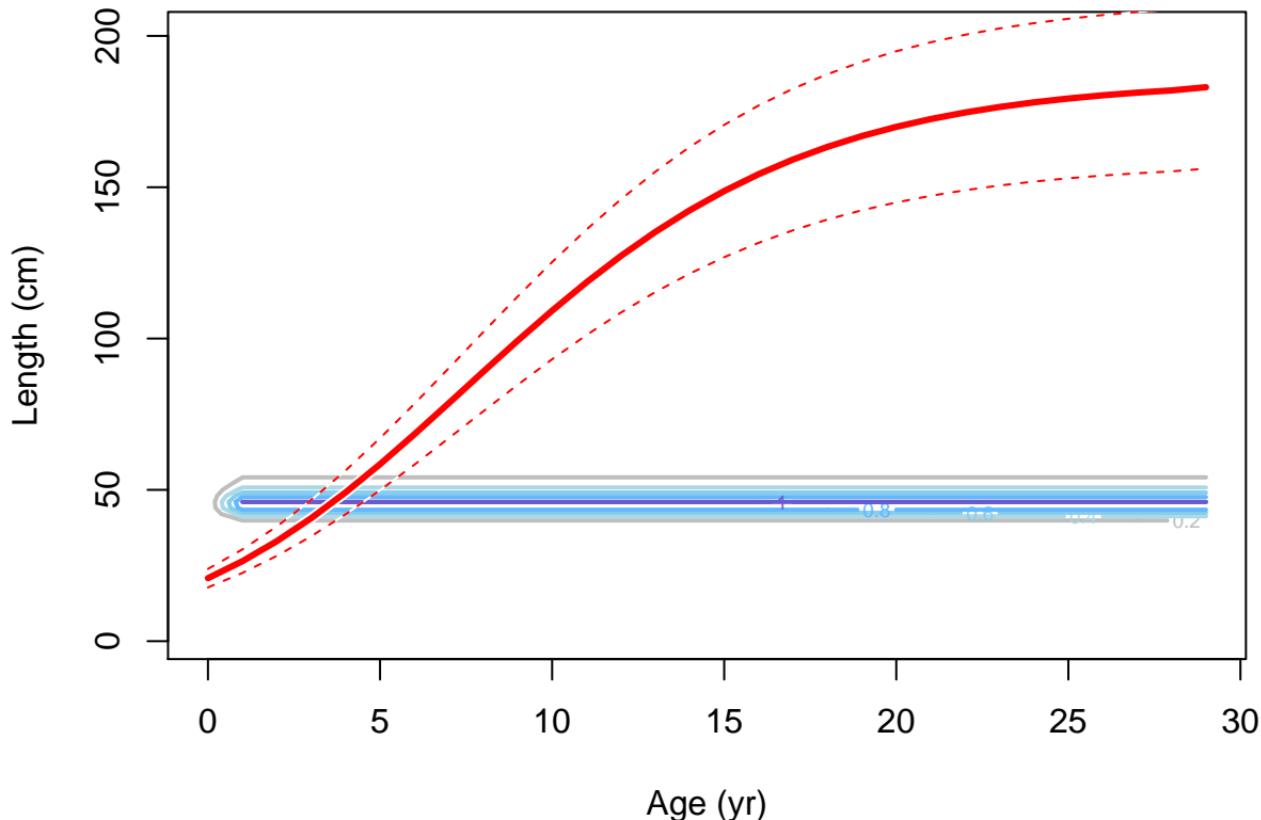
## Female ending year selectivity and growth for F1–OBJ\_N–Q14



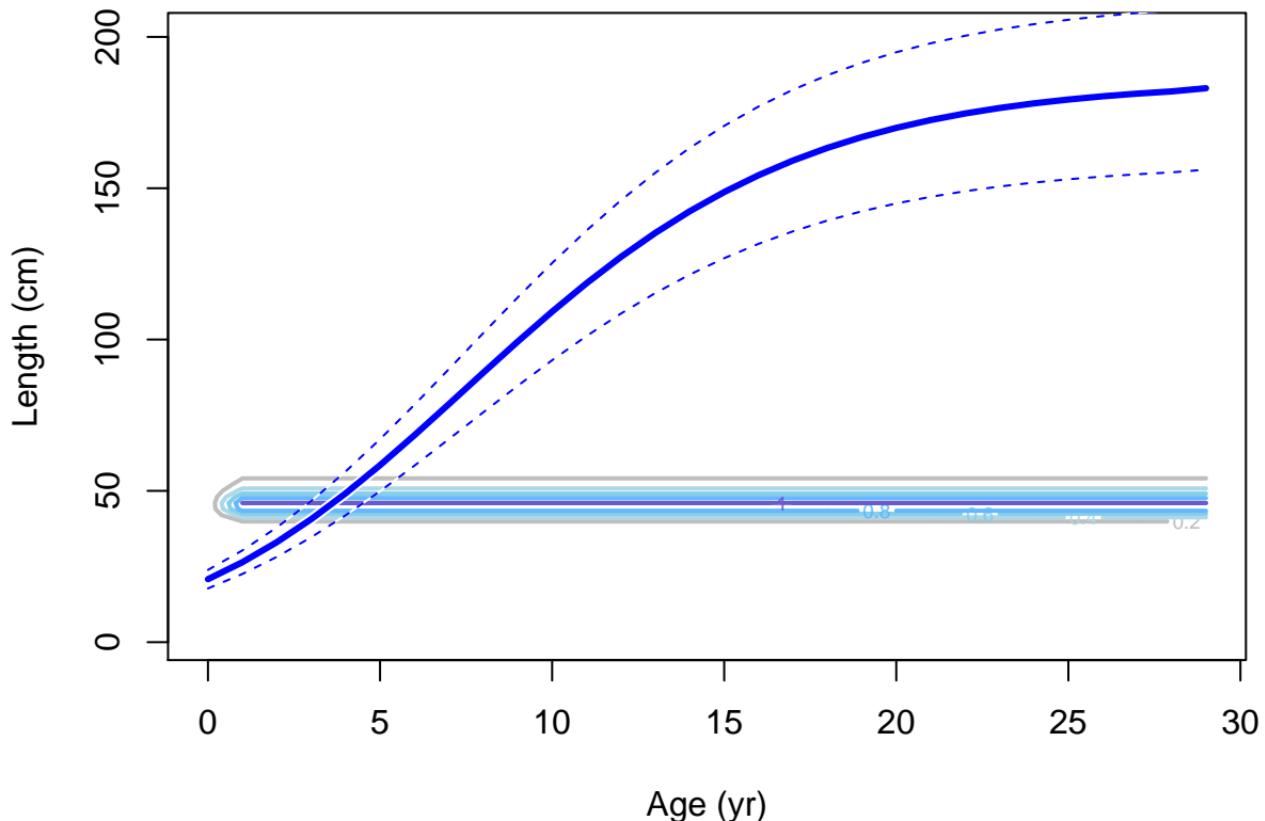
## Male ending year selectivity and growth for F1–OBJ\_N–Q14



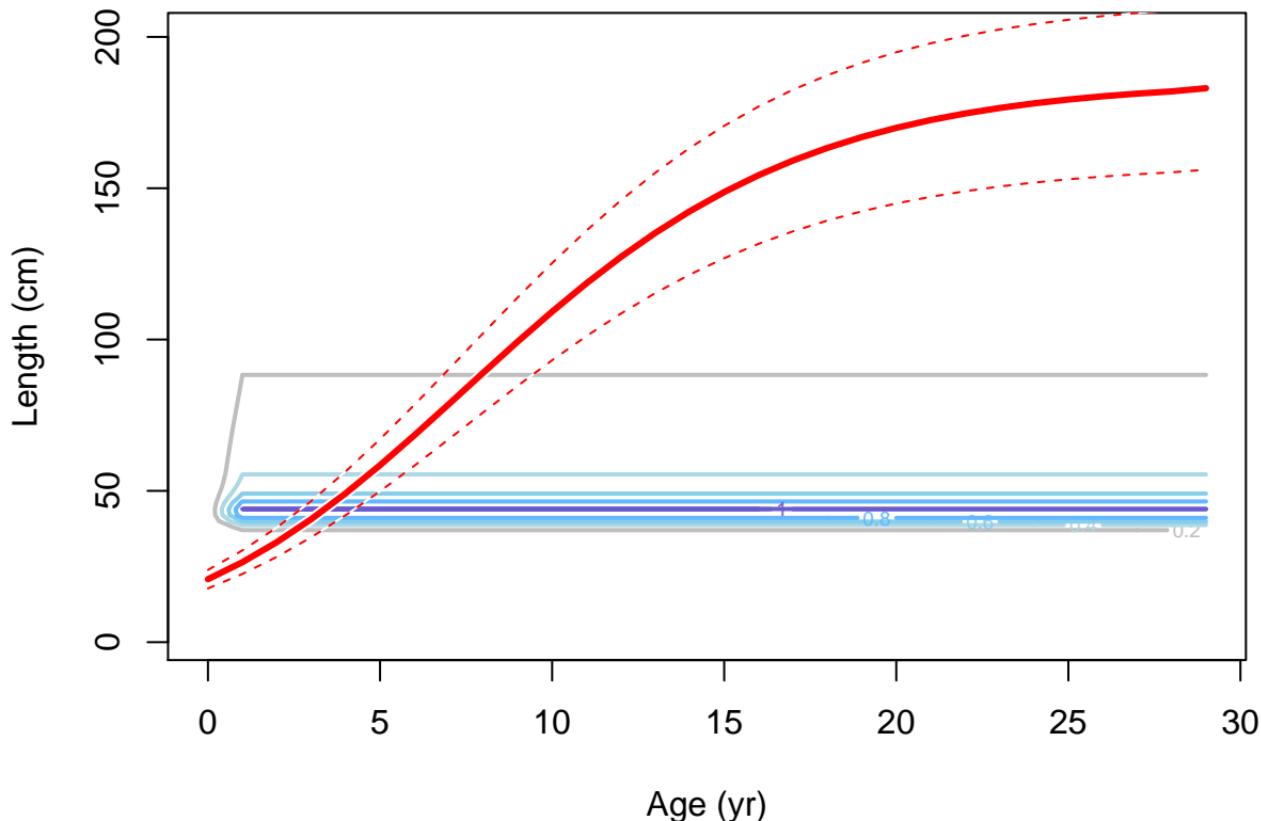
## Female ending year selectivity and growth for F2–OBJ\_Nc\_Q14



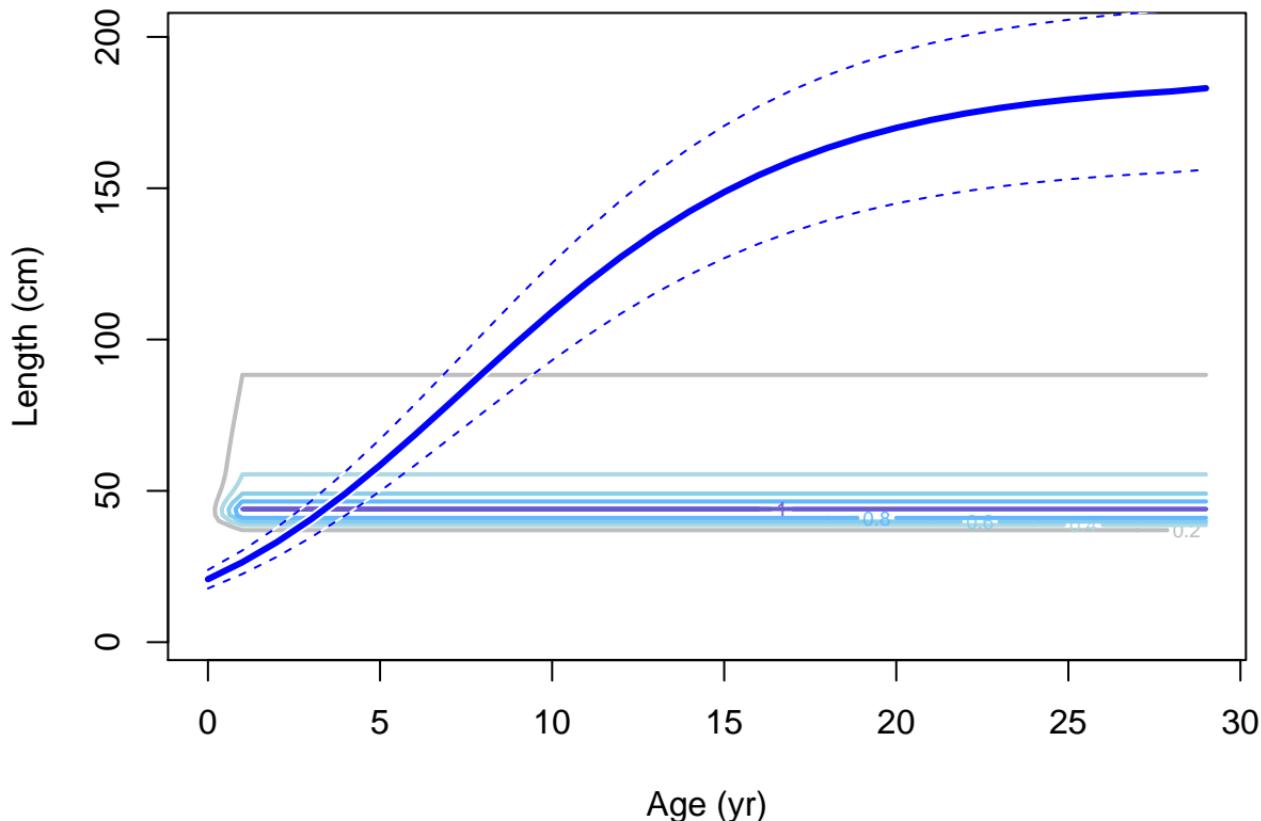
## Male ending year selectivity and growth for F2-OBJ\_Nc\_Q14



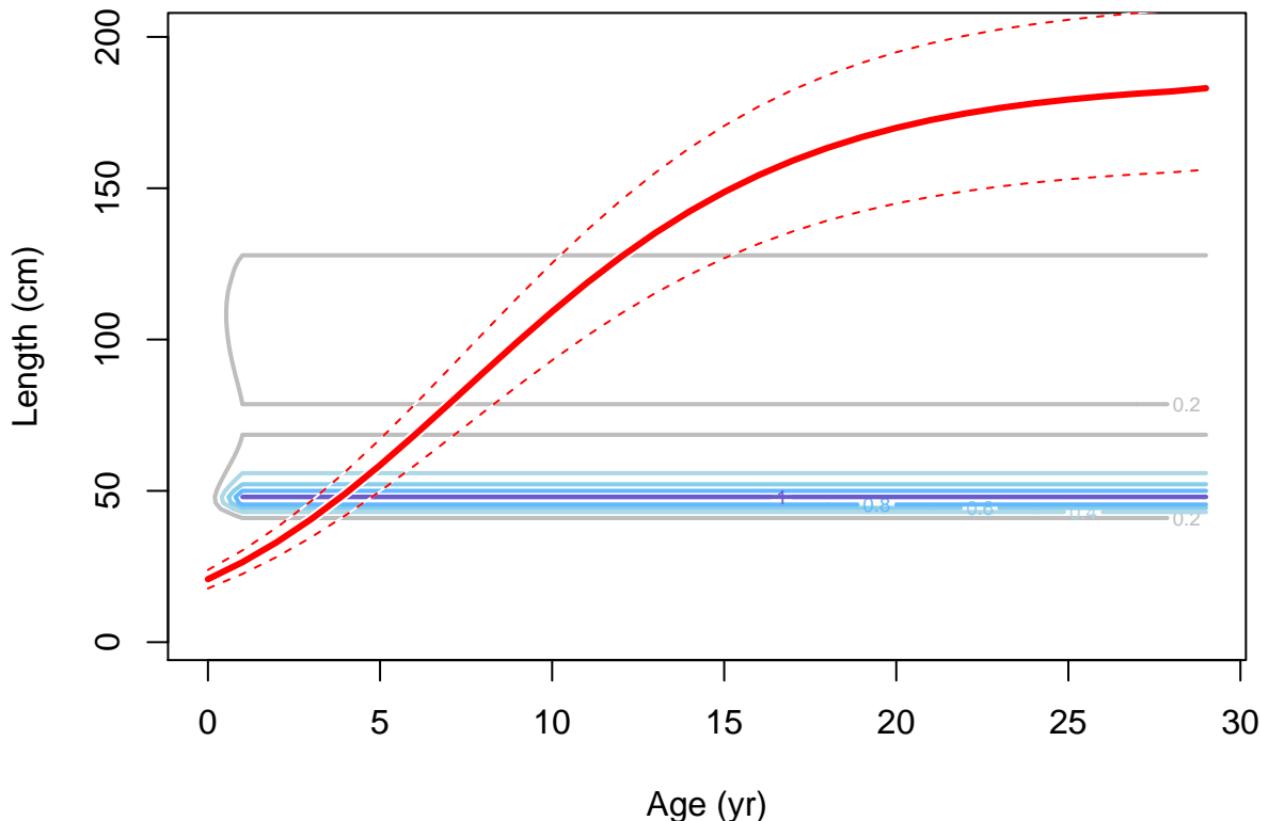
## Female ending year selectivity and growth for F3–OBJ\_C\_Q14



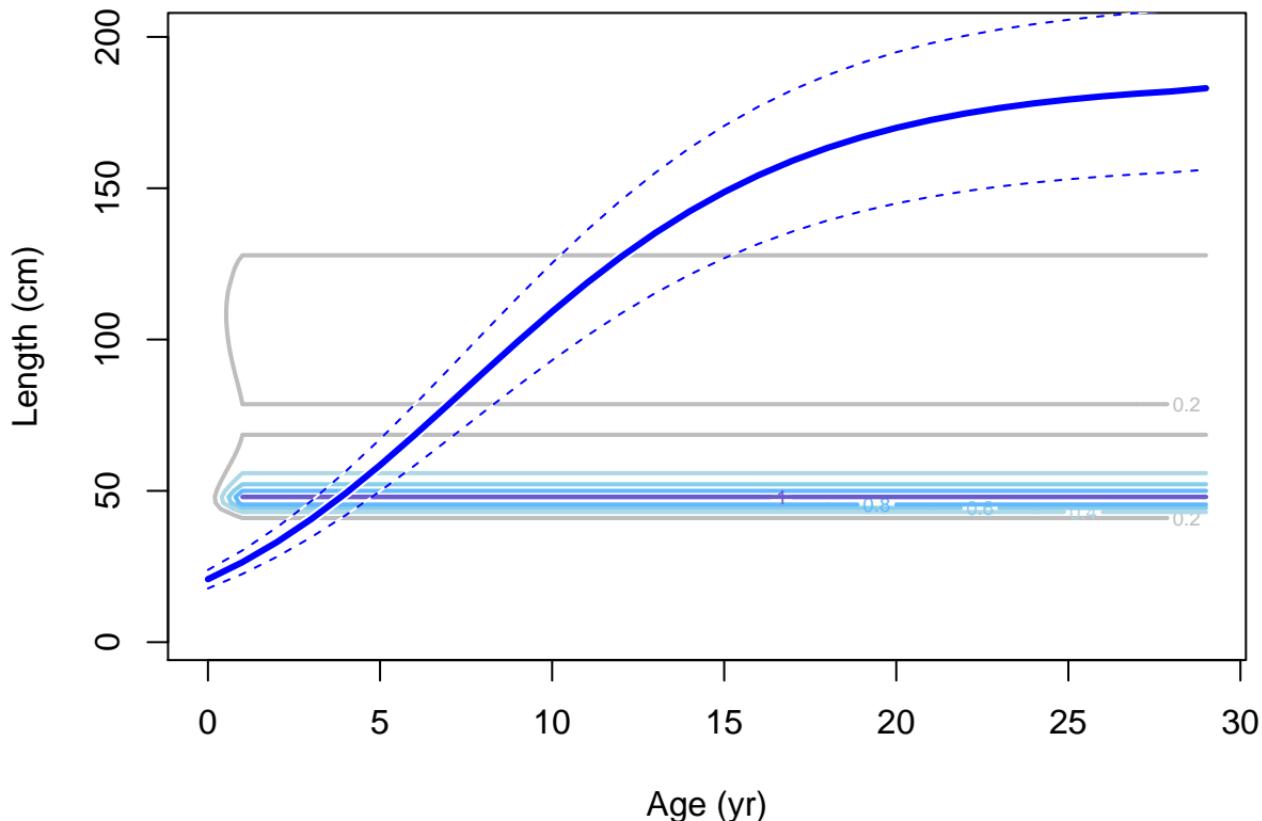
## Male ending year selectivity and growth for F3–OBJ\_C\_Q14



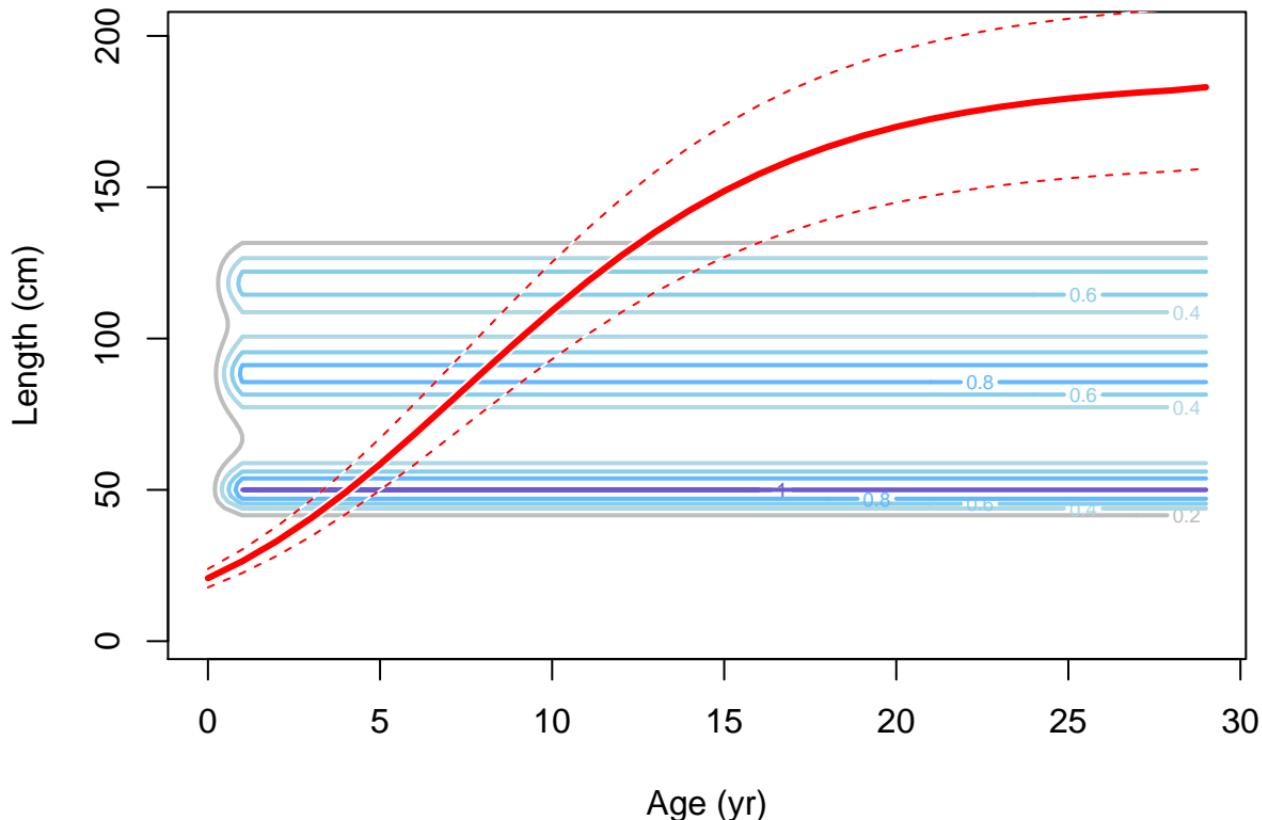
## Female ending year selectivity and growth for F4-OBJ\_Cc\_Q14



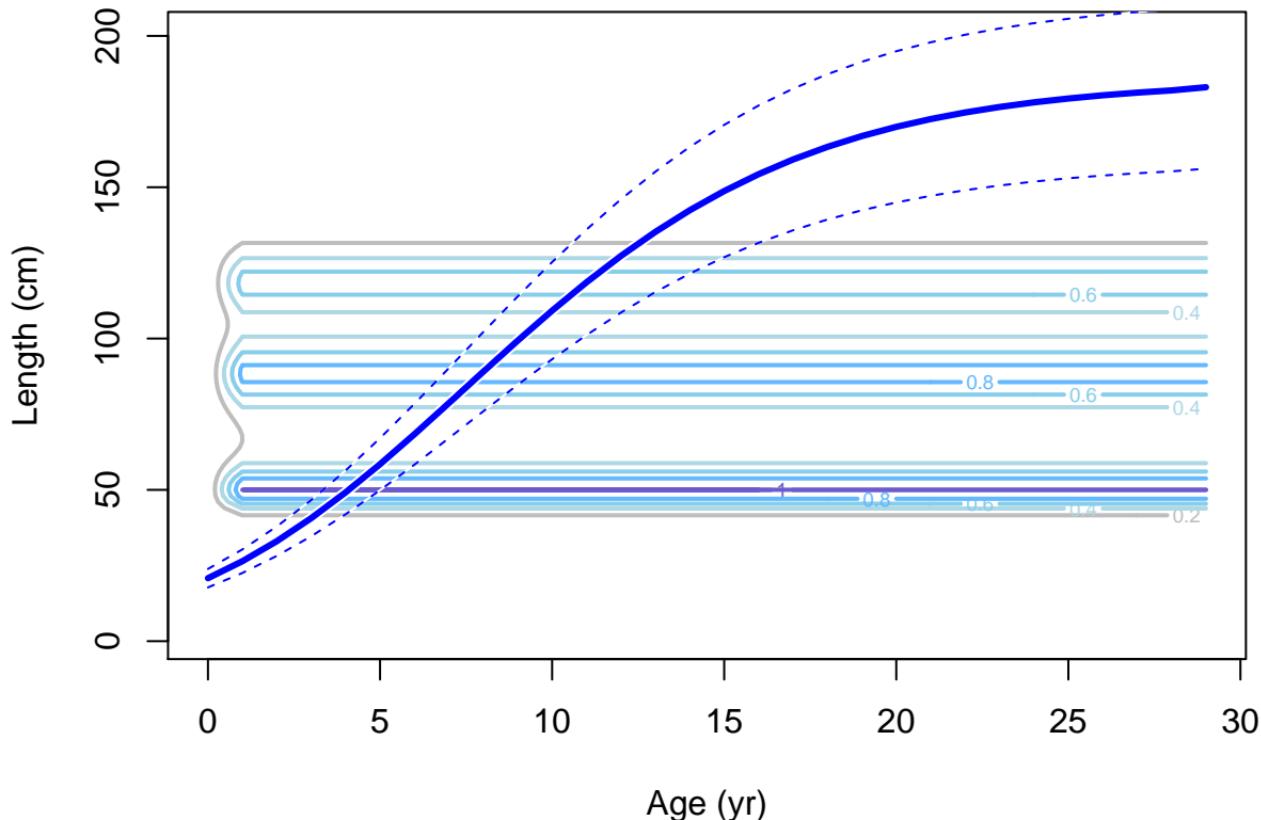
## Male ending year selectivity and growth for F4-OBJ\_Cc\_Q14



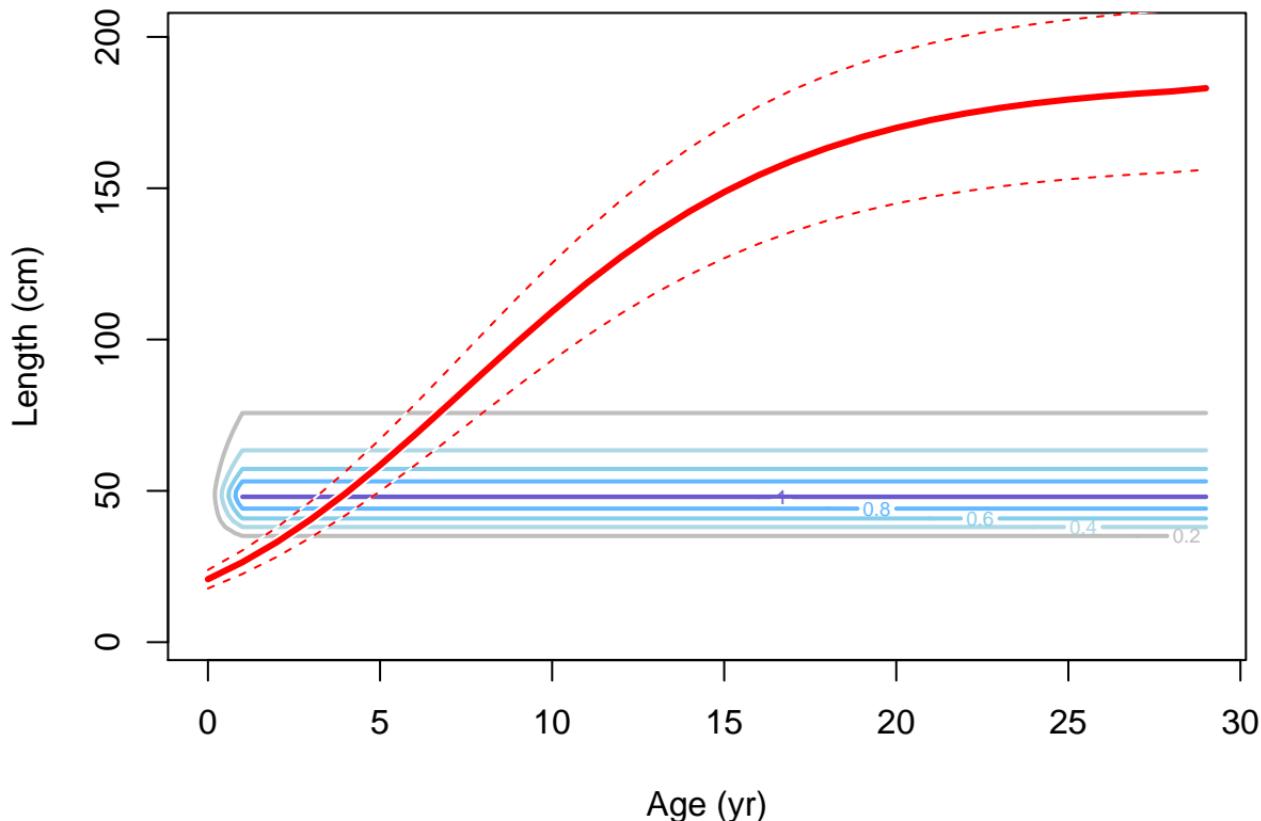
## Female ending year selectivity and growth for F5-OBJ\_S\_Q14



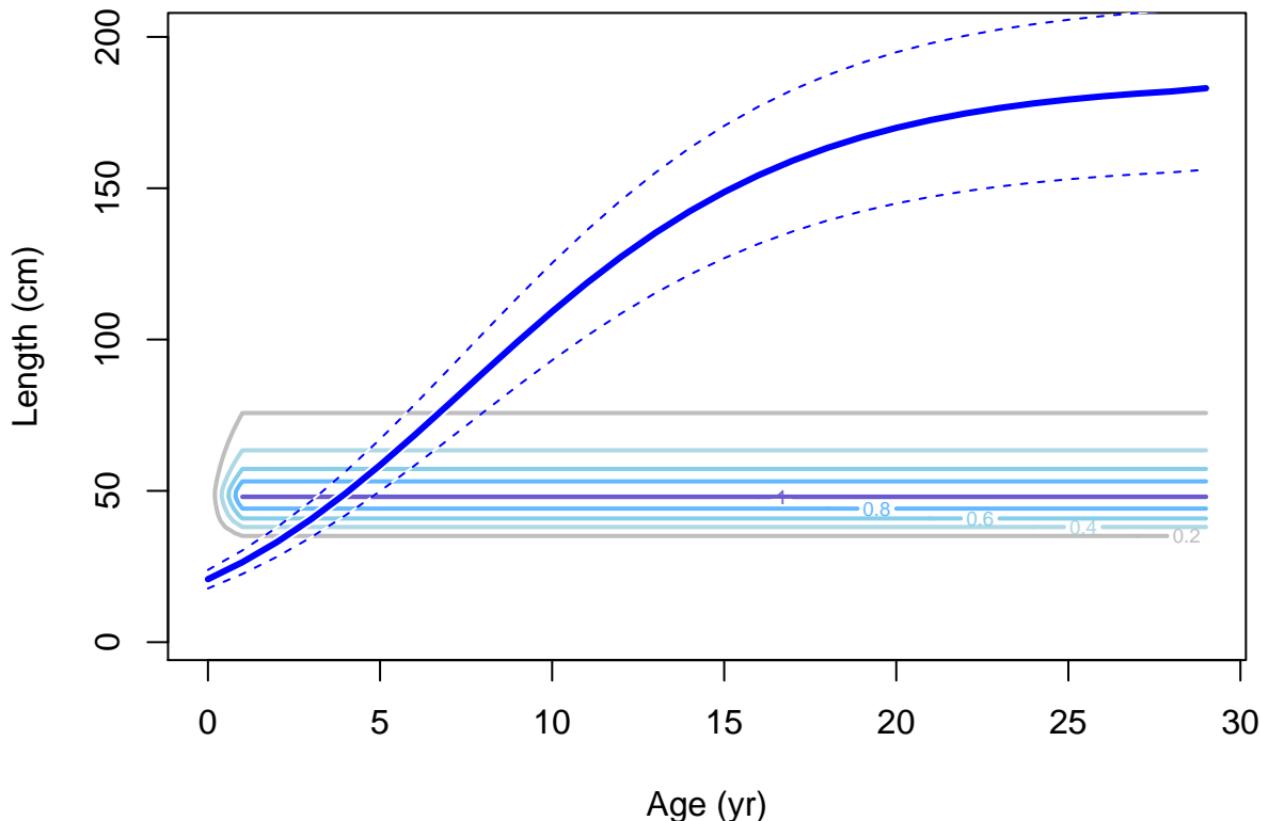
## Male ending year selectivity and growth for F5-OBJ\_S\_Q14



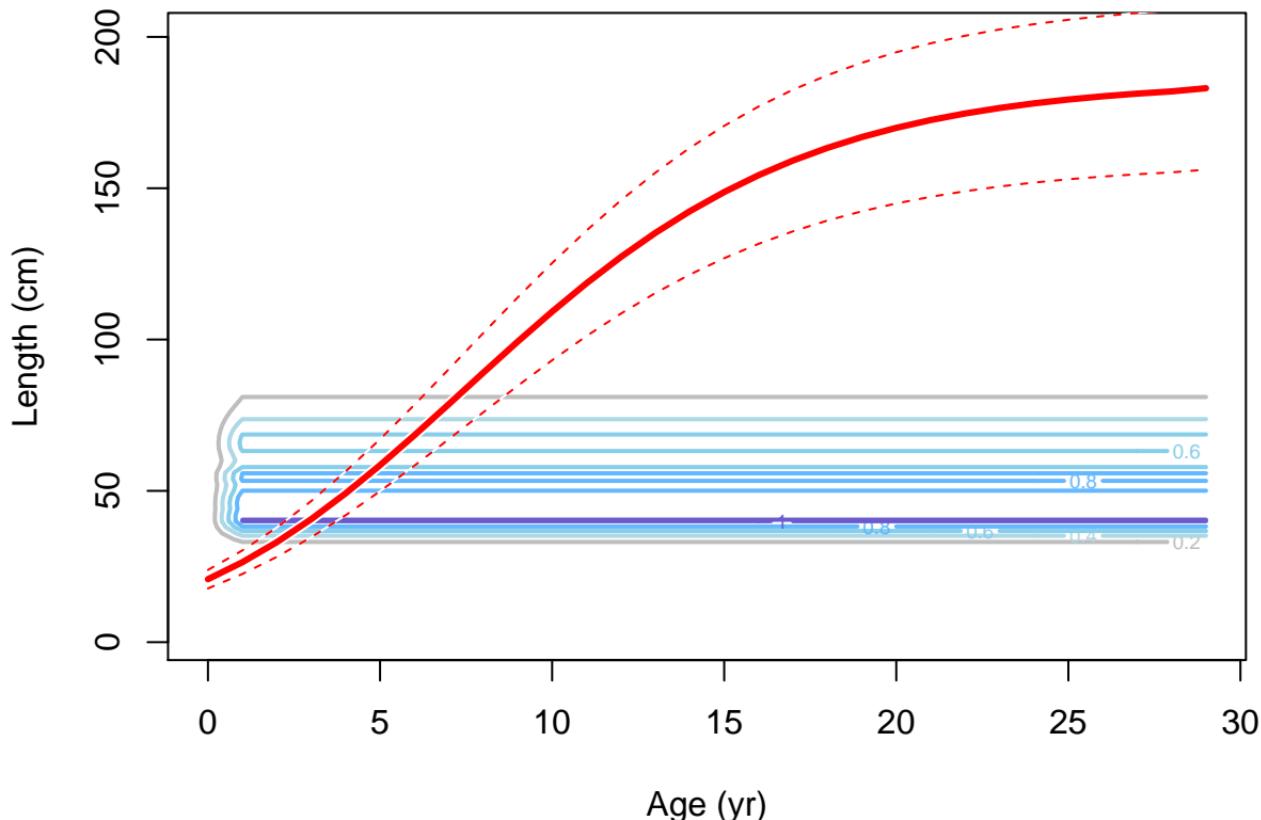
## Female ending year selectivity and growth for F6-OBJ\_N\_Q23



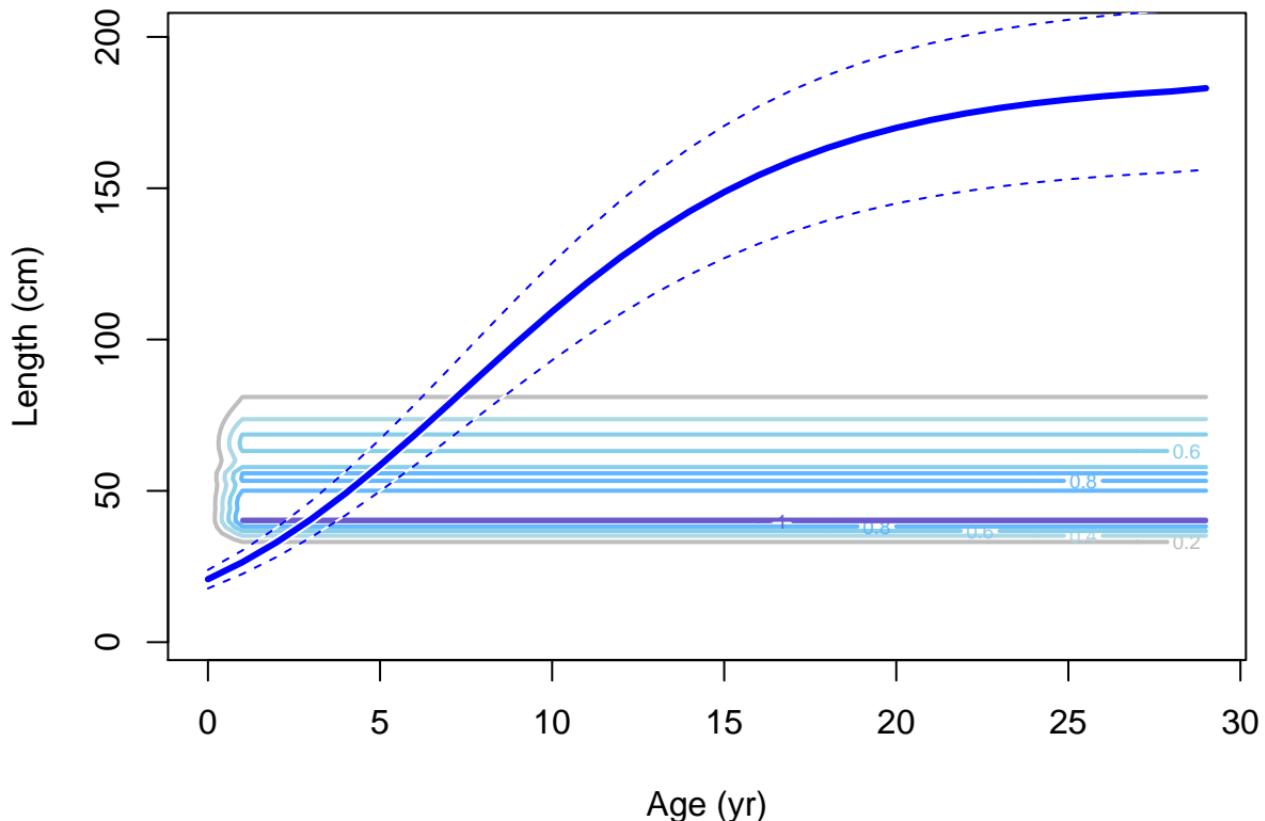
## Male ending year selectivity and growth for F6-OBJ\_N\_Q23



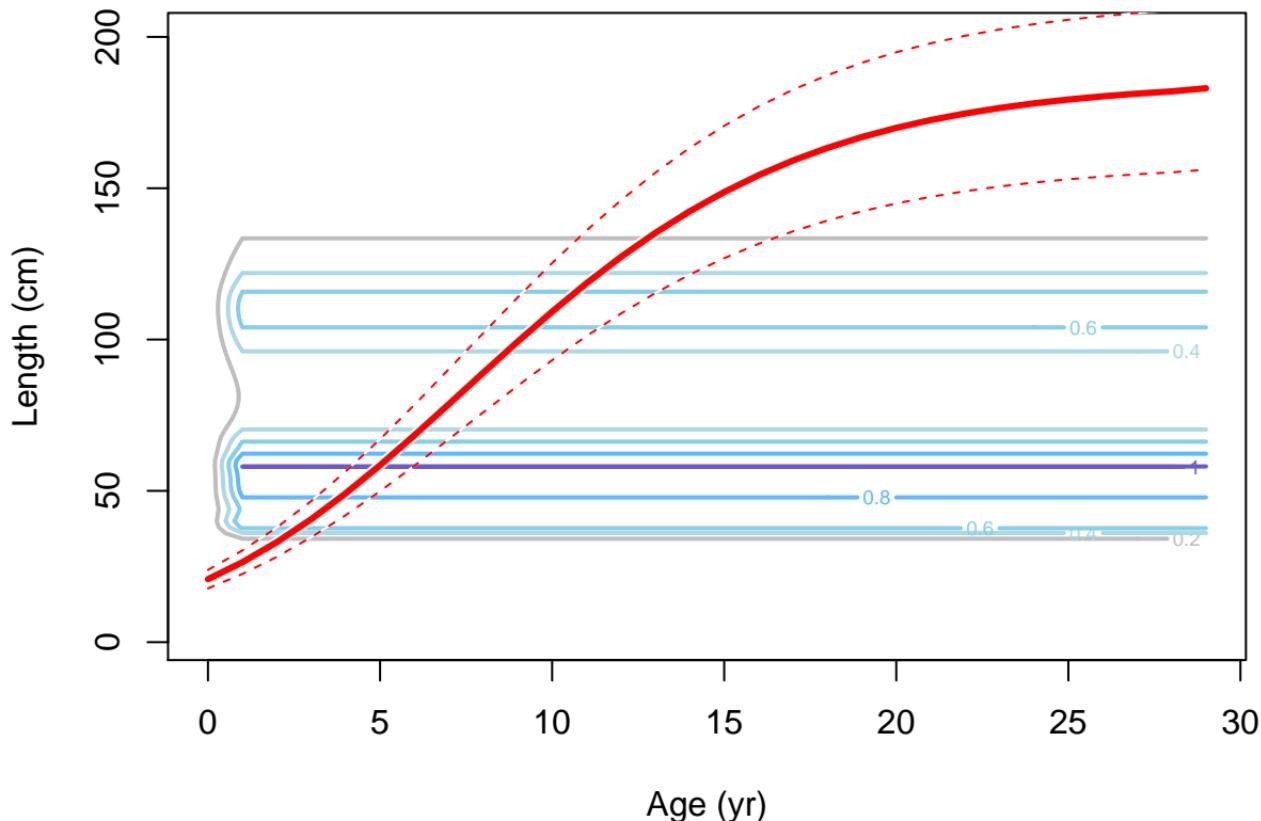
## Female ending year selectivity and growth for F7–OBJ\_Nc\_Q23



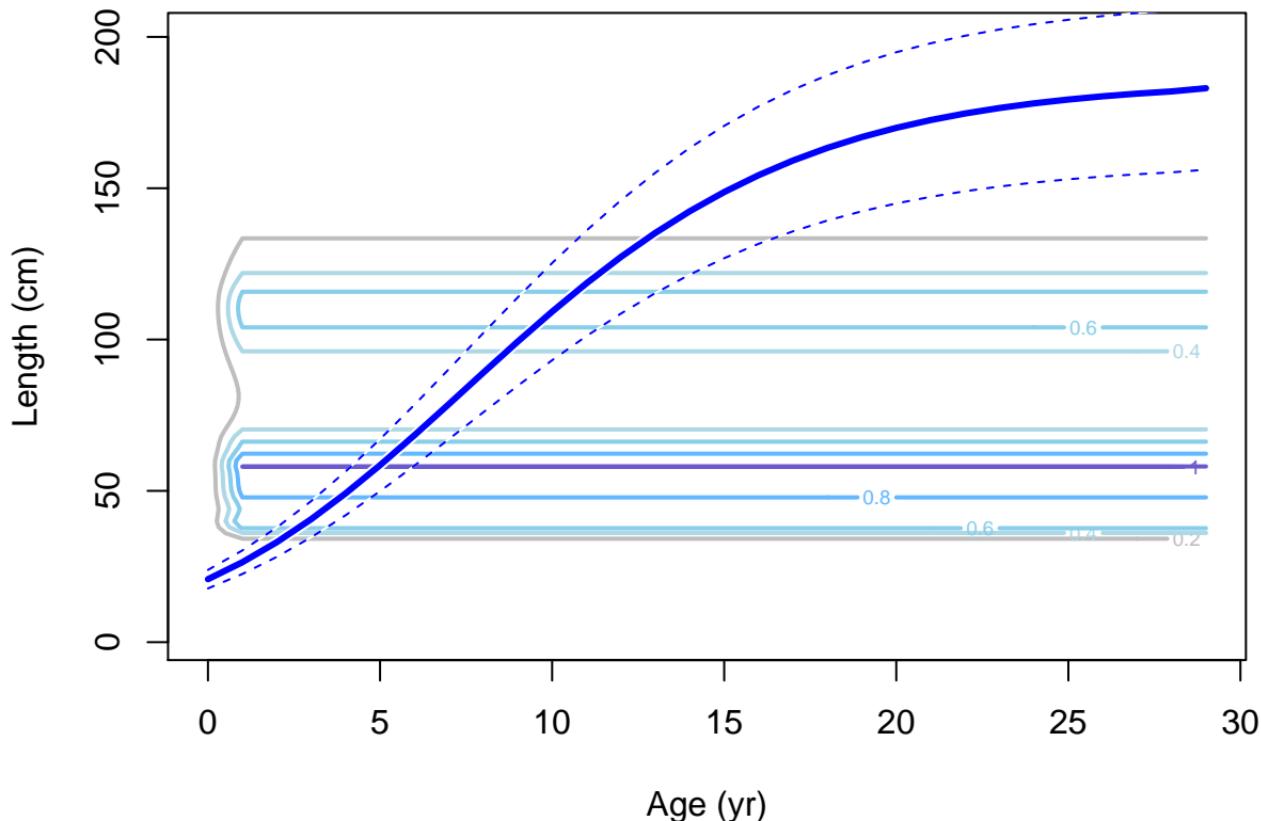
## Male ending year selectivity and growth for F7-OBJ\_Nc\_Q23



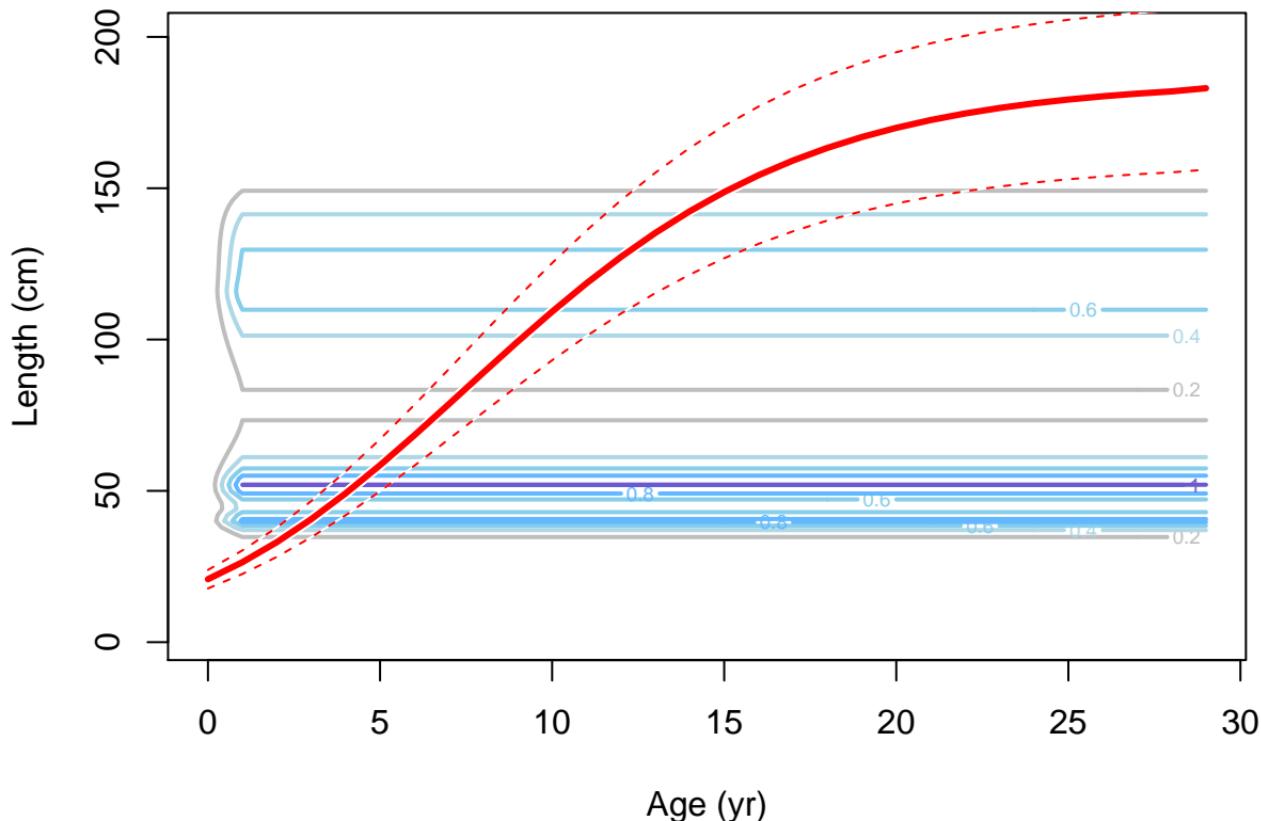
## Female ending year selectivity and growth for F8-OBJ\_C\_Q23



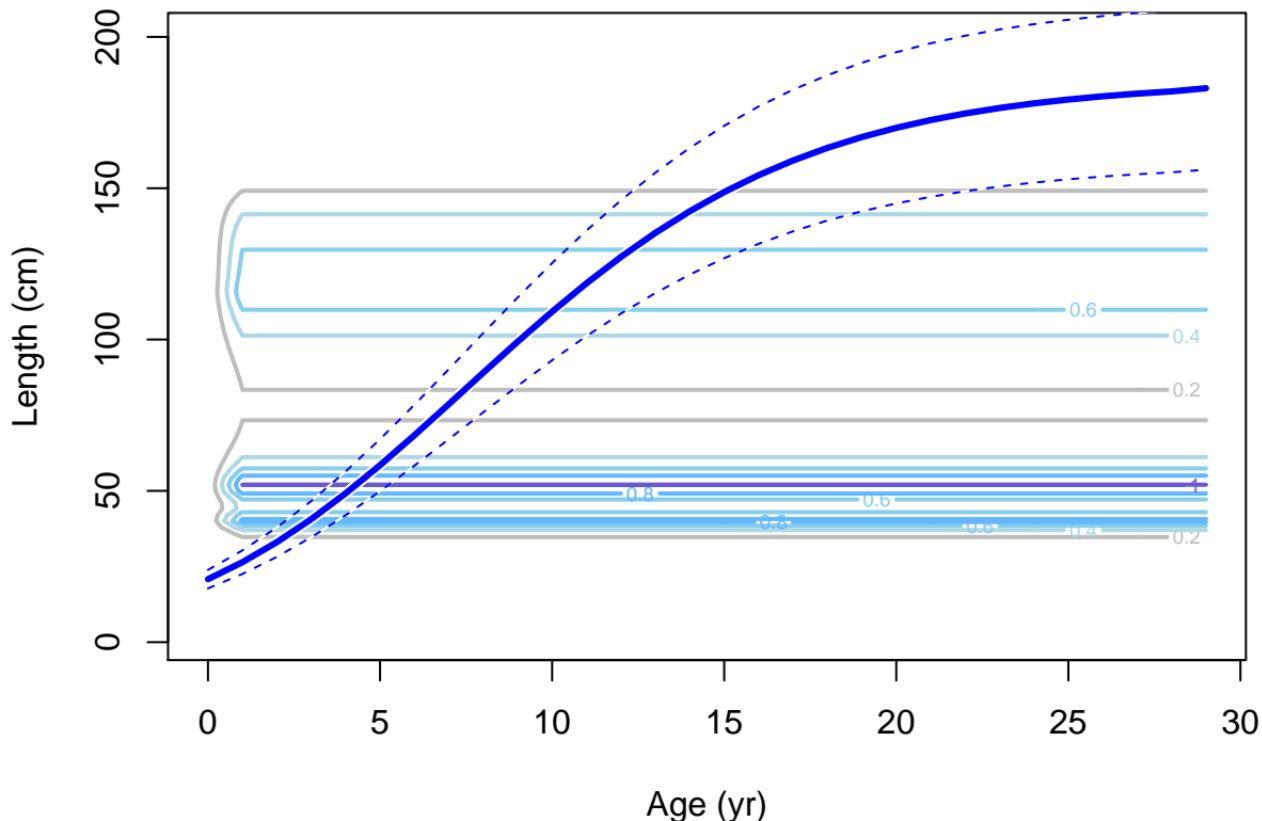
## Male ending year selectivity and growth for F8-OBJ\_C\_Q23



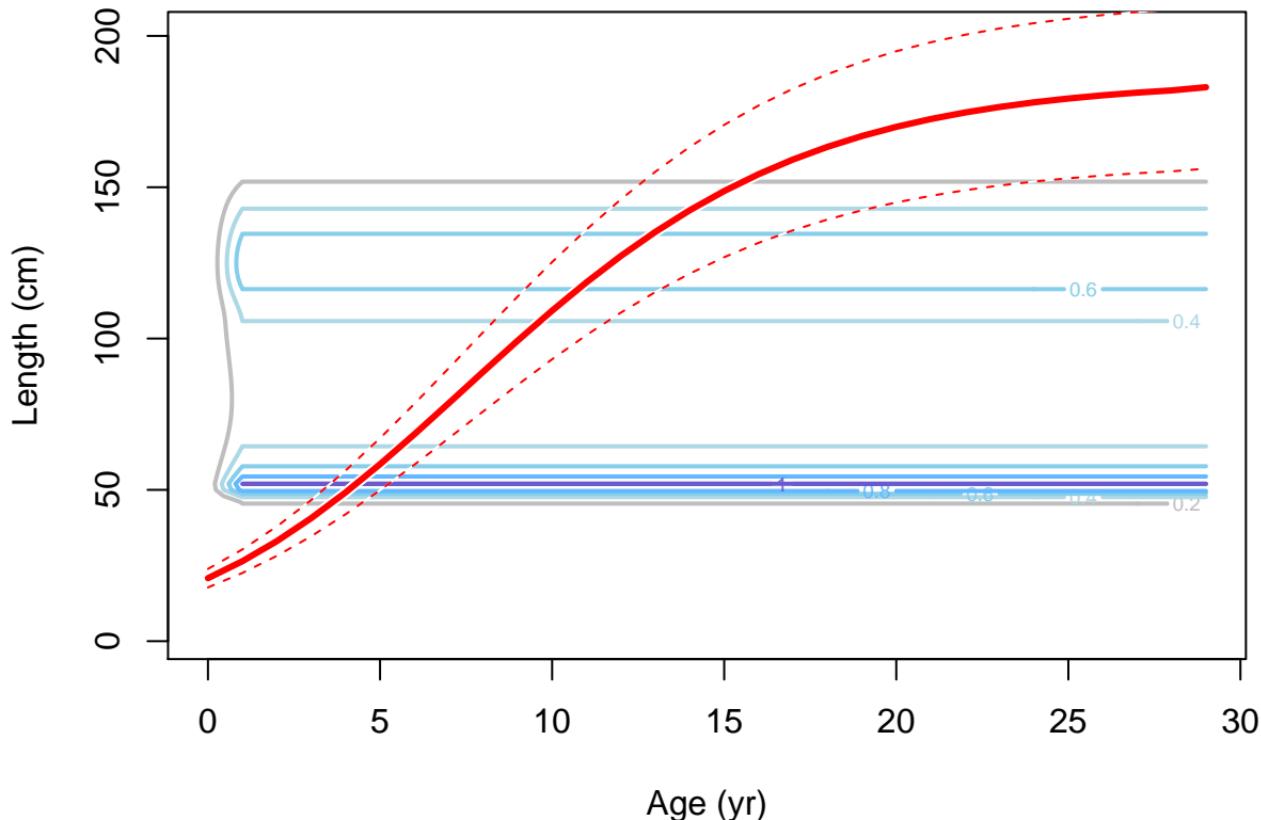
## Female ending year selectivity and growth for F9–OBJ\_Cc\_Q23



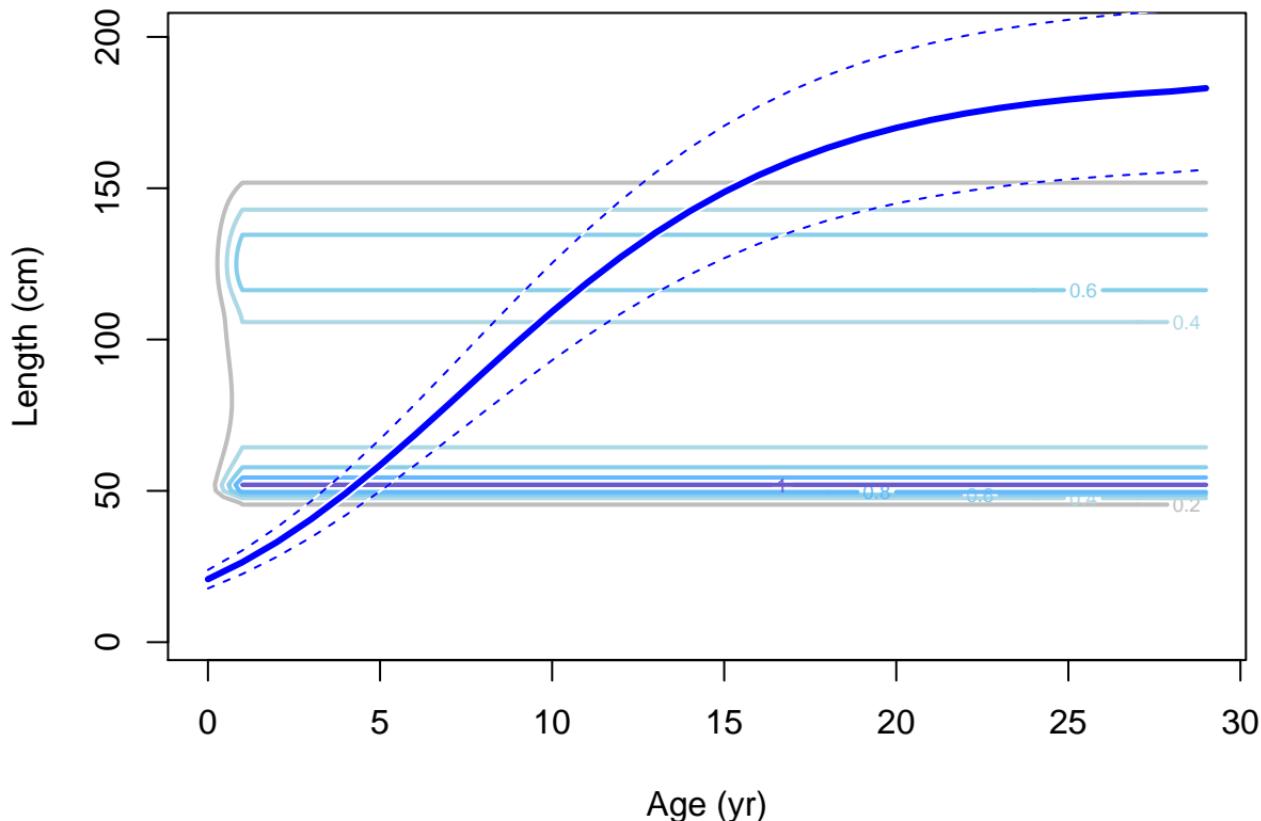
## Male ending year selectivity and growth for F9–OBJ\_Cc\_Q23



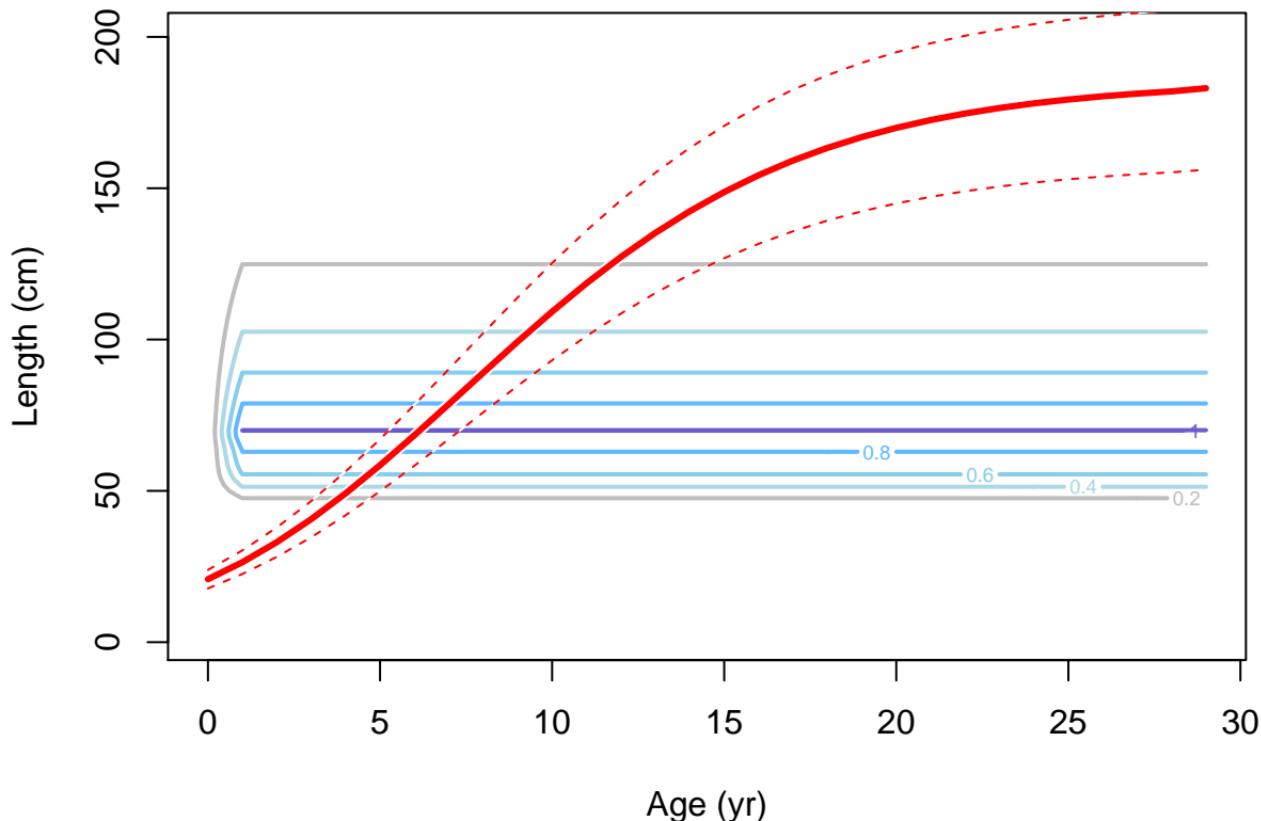
## Female ending year selectivity and growth for F10-OBJ\_S\_Q23



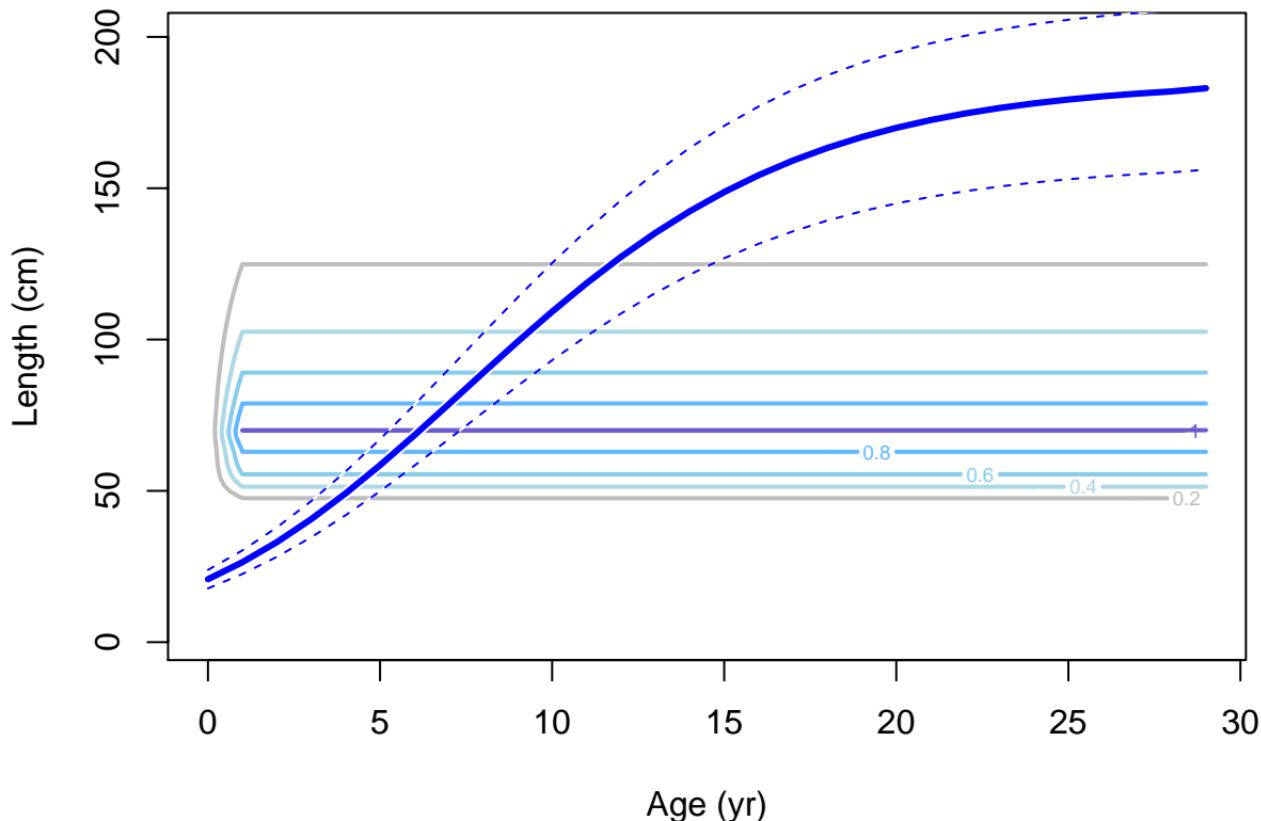
## Male ending year selectivity and growth for F10-OBJ\_S\_Q23



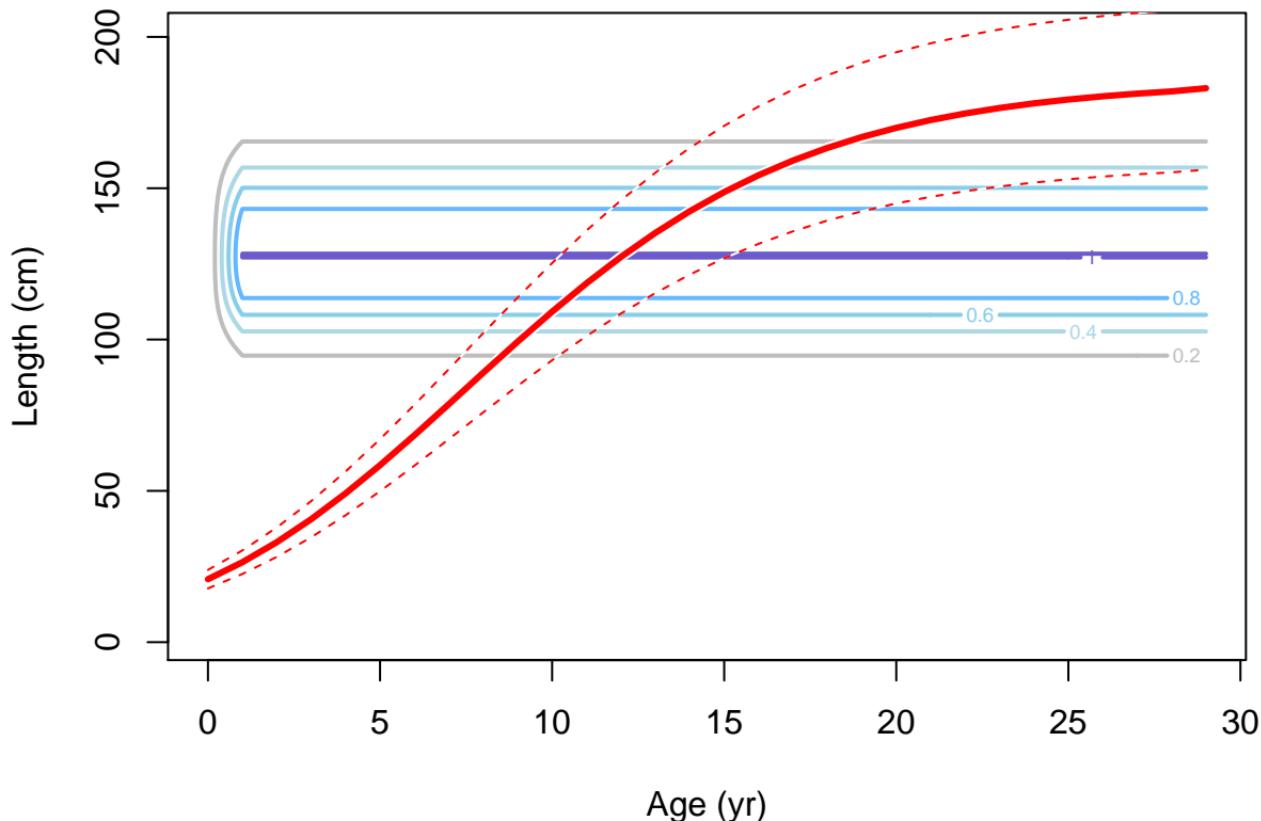
## Female ending year selectivity and growth for F11–NOA\_N



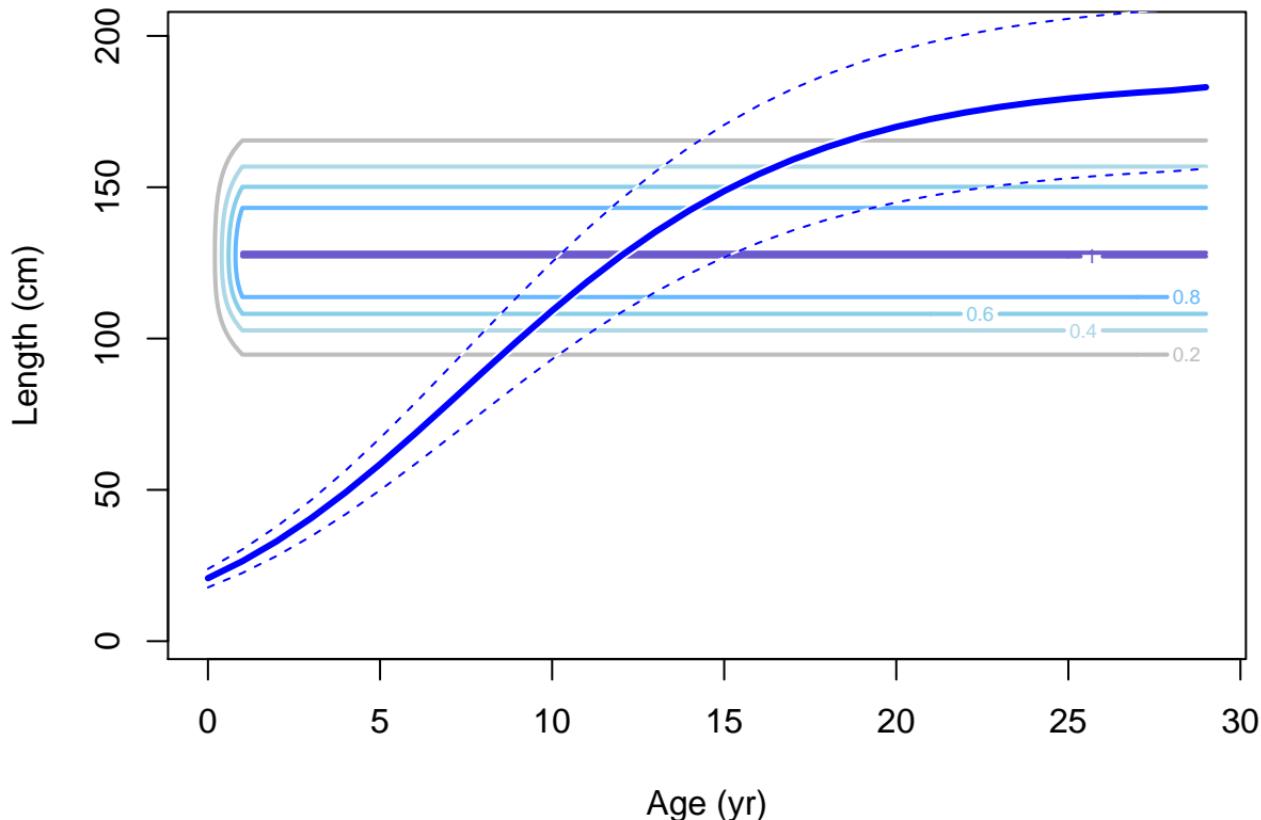
## Male ending year selectivity and growth for F11-NOA\_N



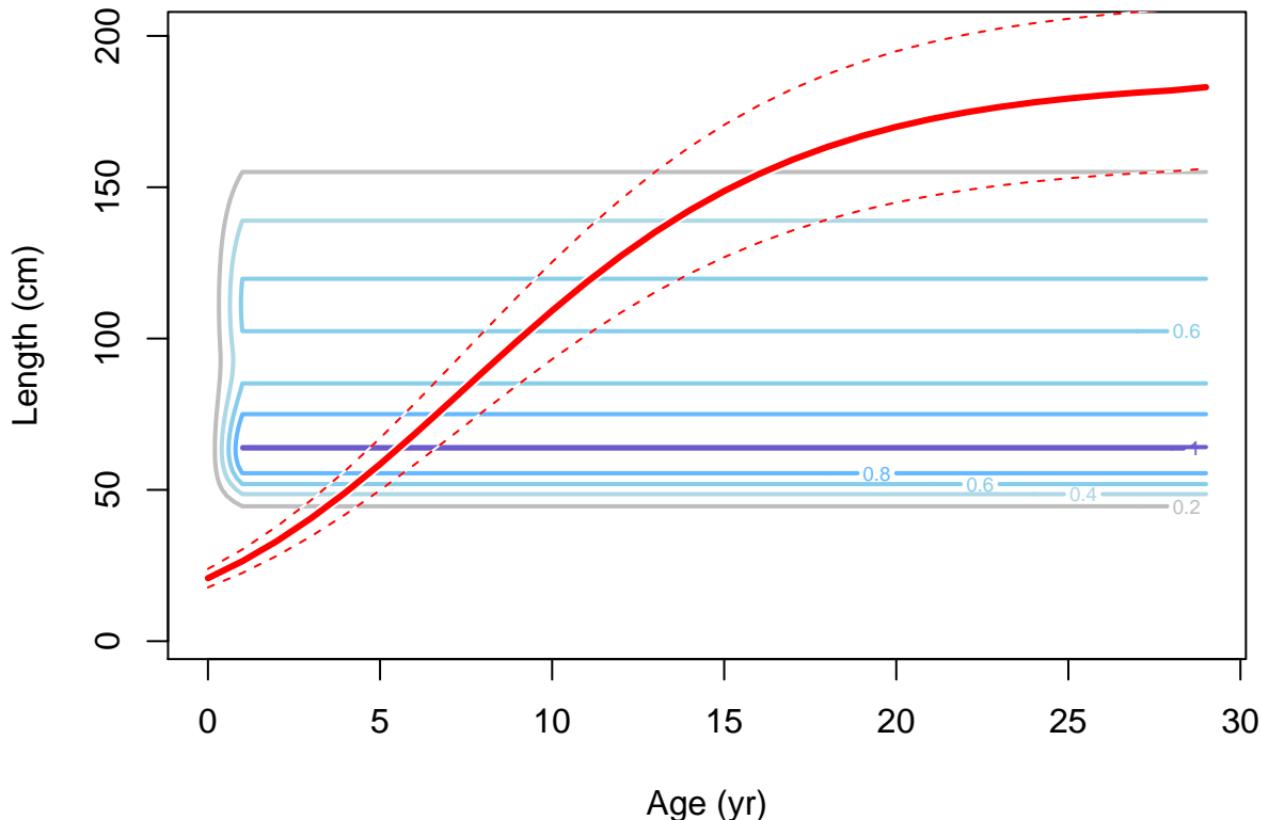
## Female ending year selectivity and growth for F12–NOA\_C



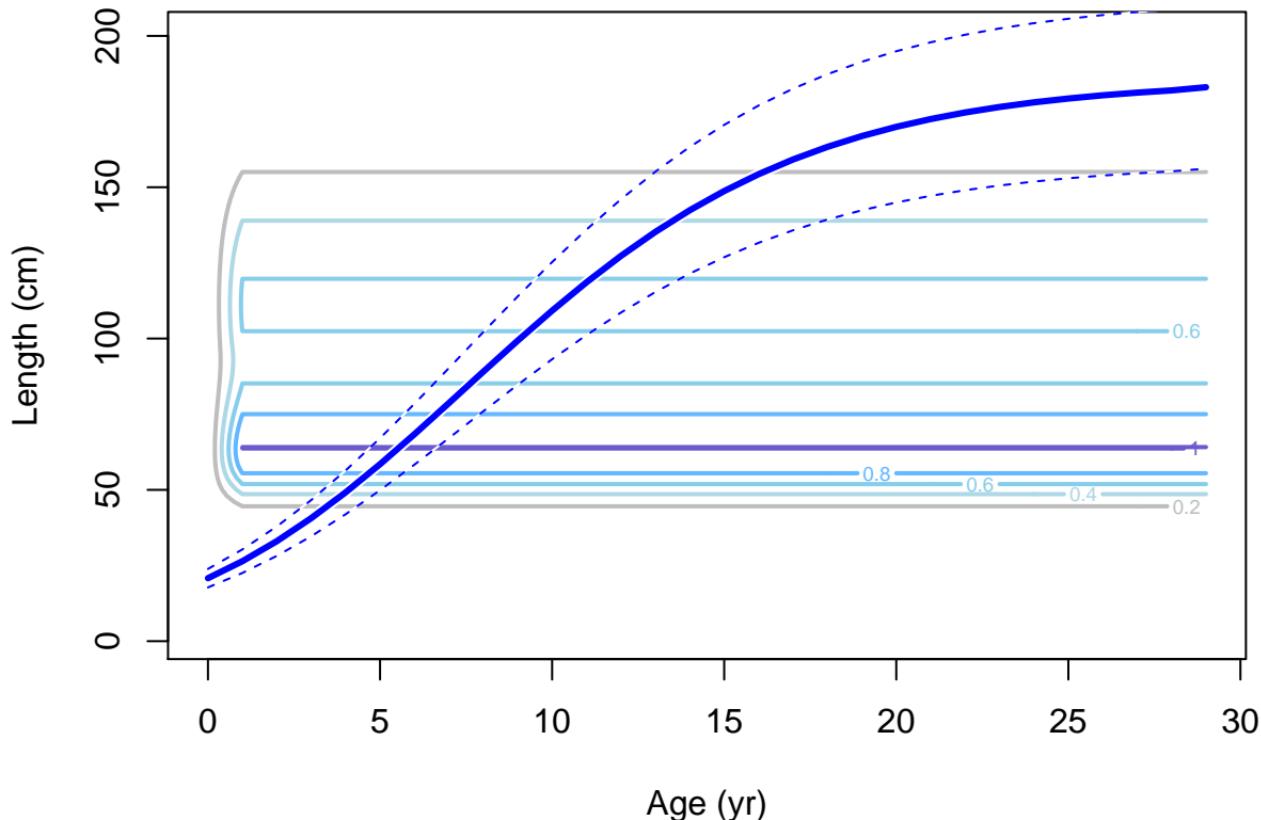
## Male ending year selectivity and growth for F12-NOA\_C



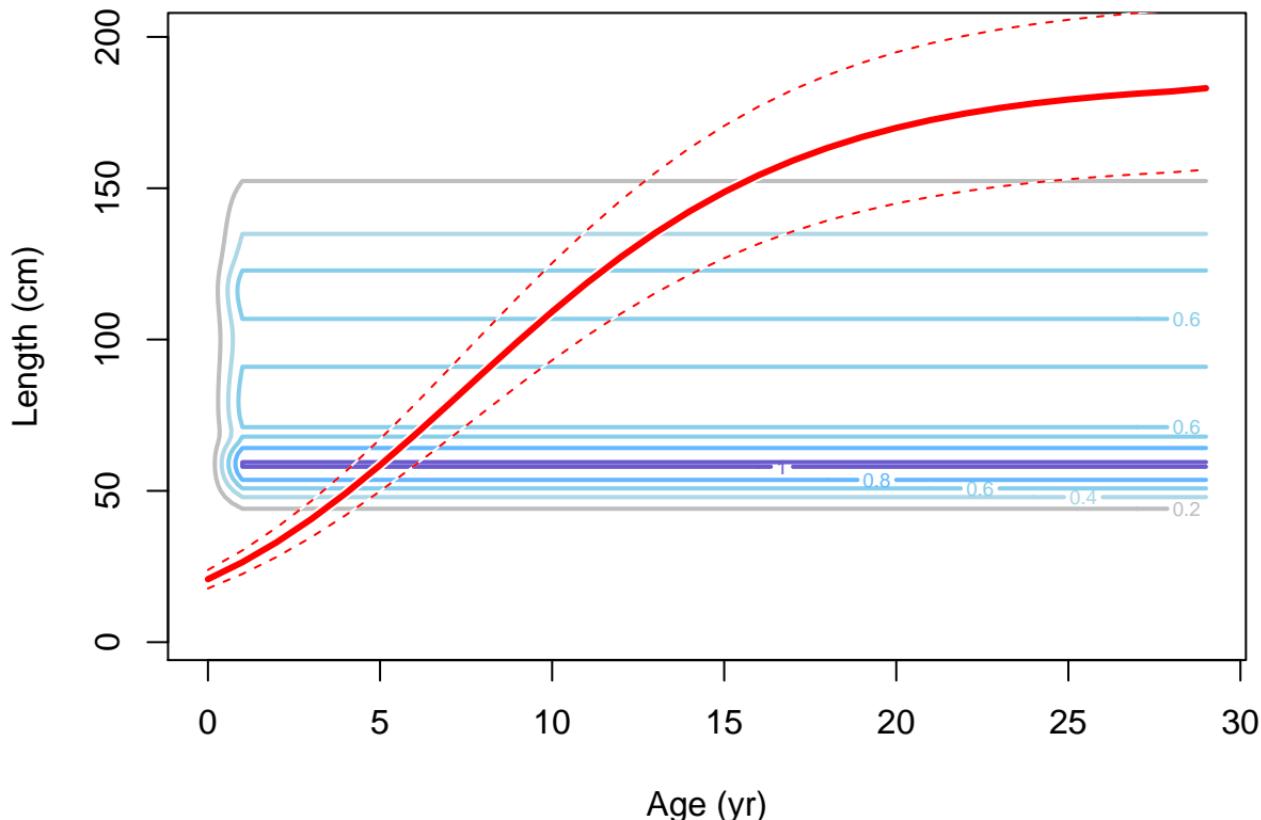
## Female ending year selectivity and growth for F13–NOA\_I



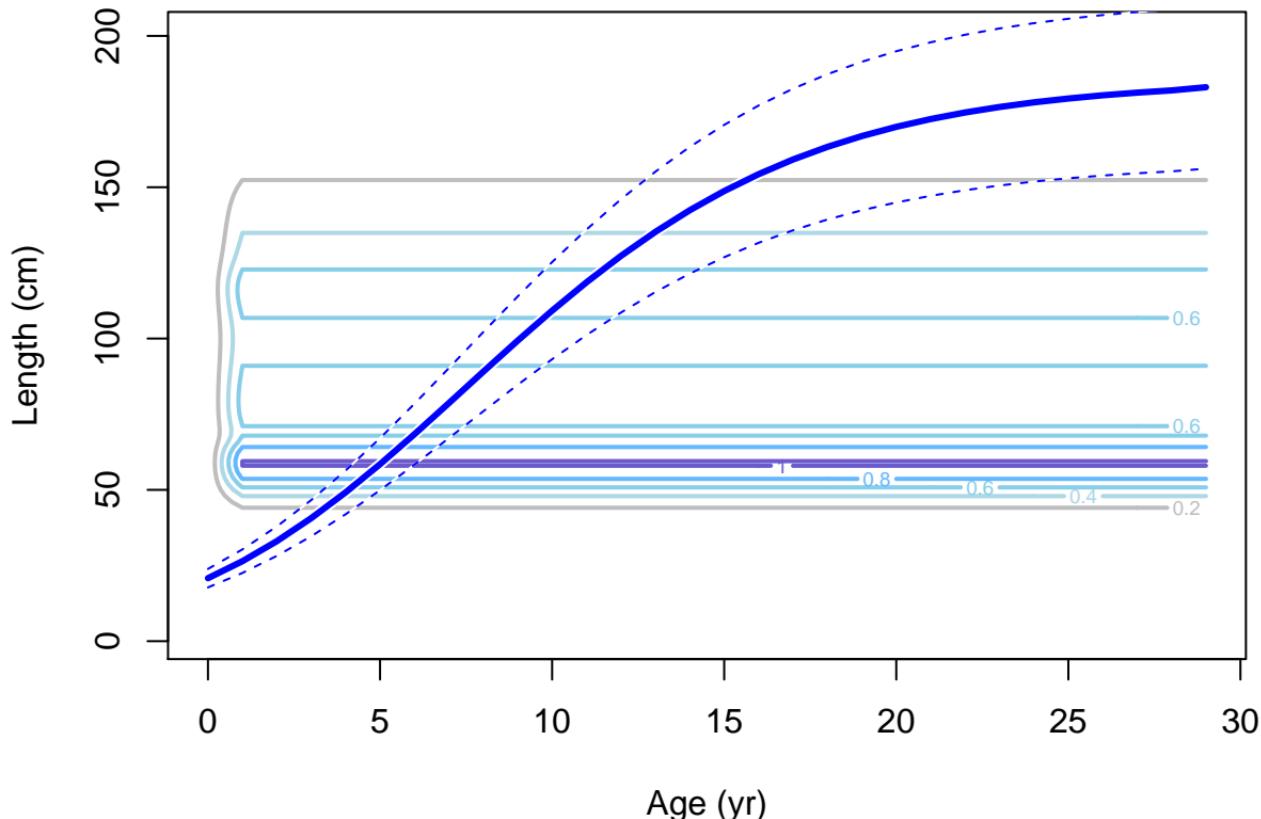
## Male ending year selectivity and growth for F13–NOA\_I



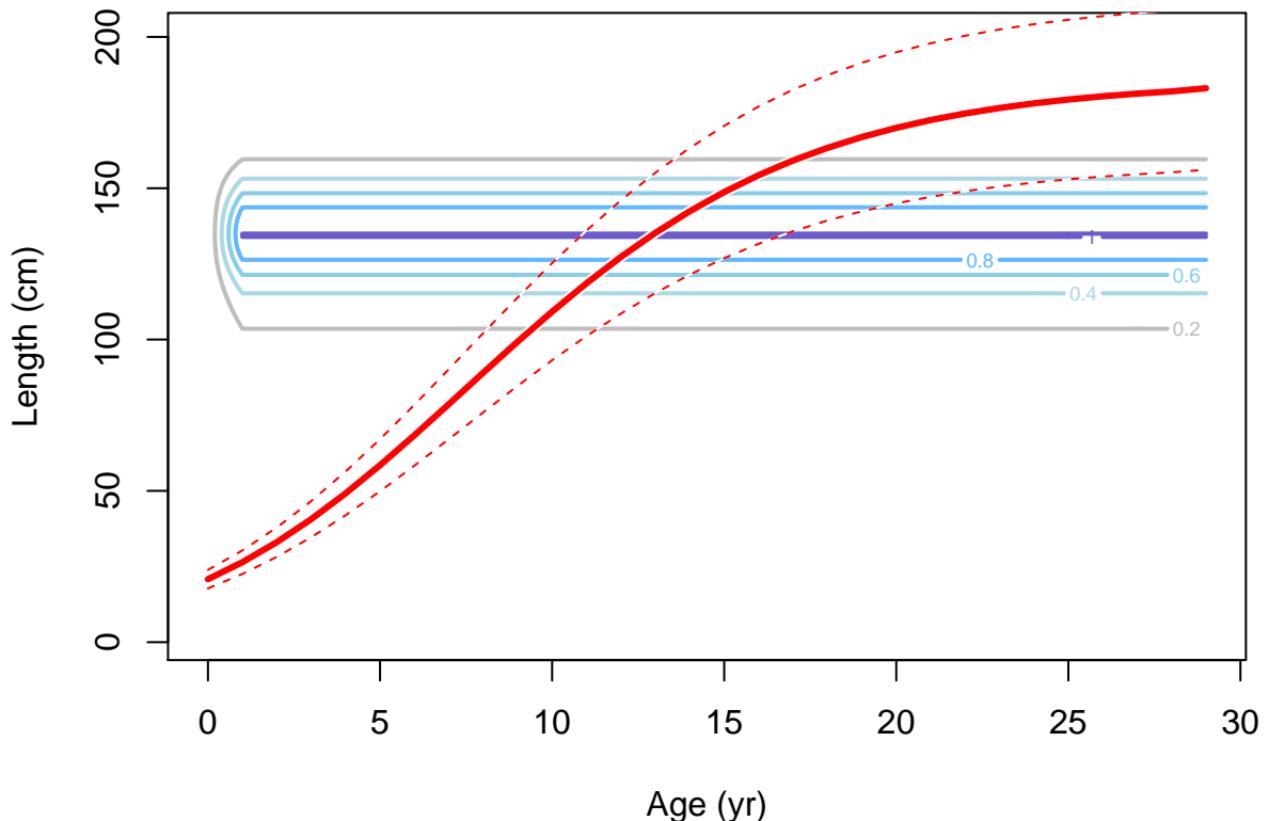
## Female ending year selectivity and growth for F14–NOA\_S



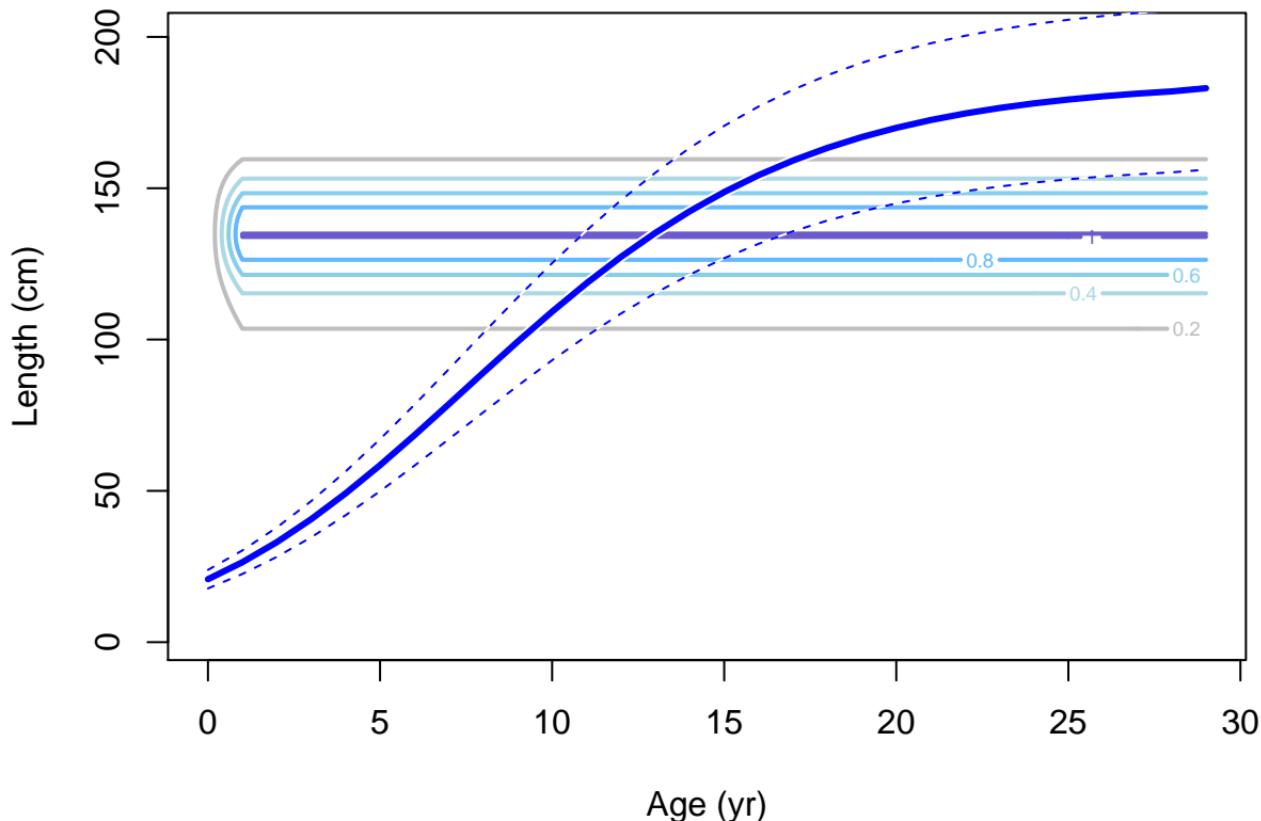
## Male ending year selectivity and growth for F14-NOA\_S



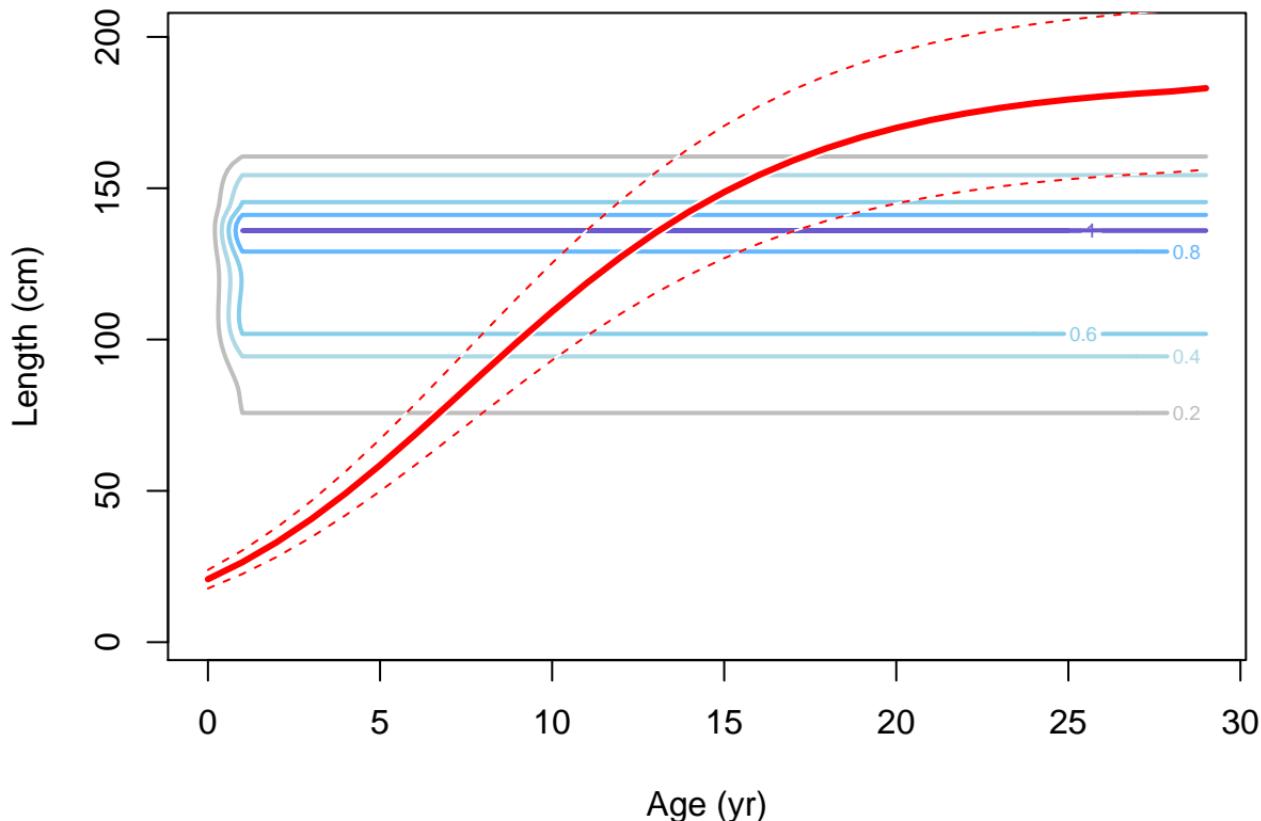
## Female ending year selectivity and growth for F15-DEL\_N



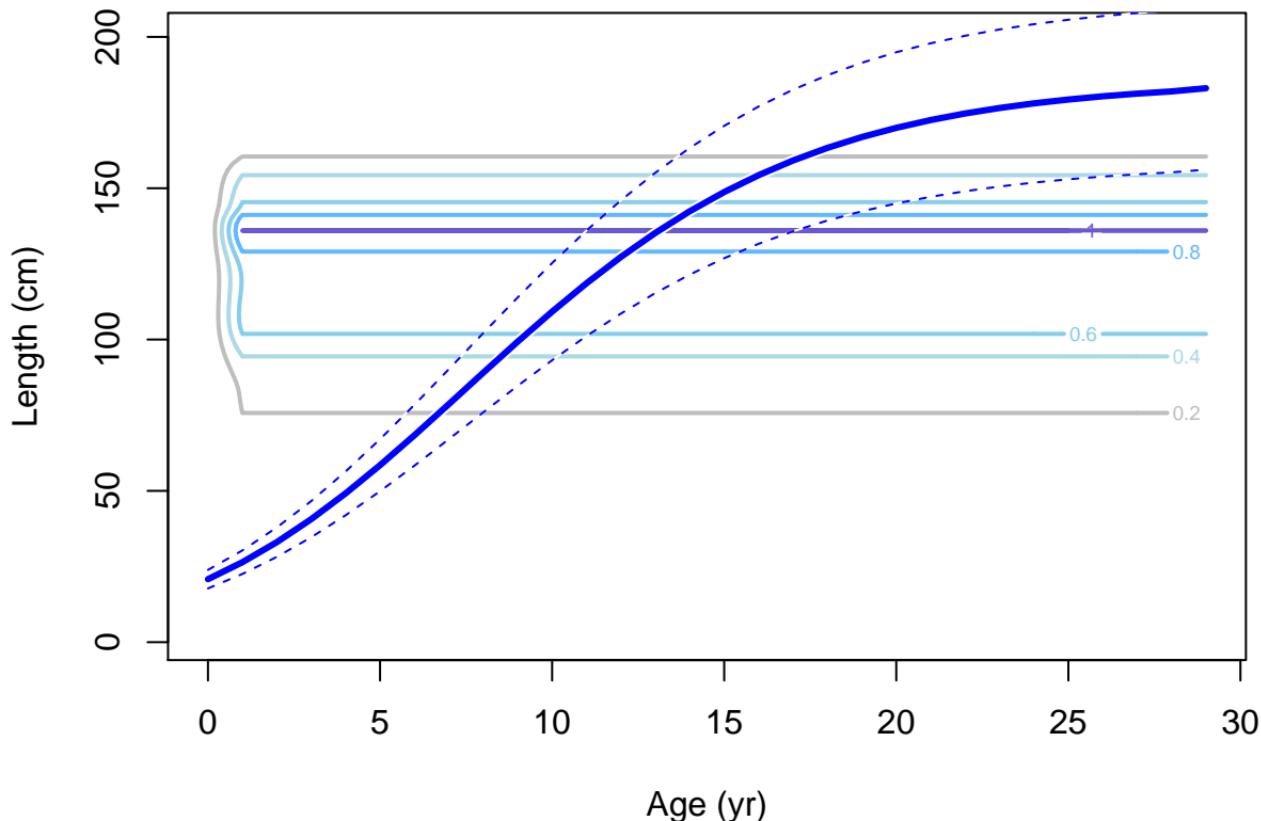
## Male ending year selectivity and growth for F15-DEL\_N



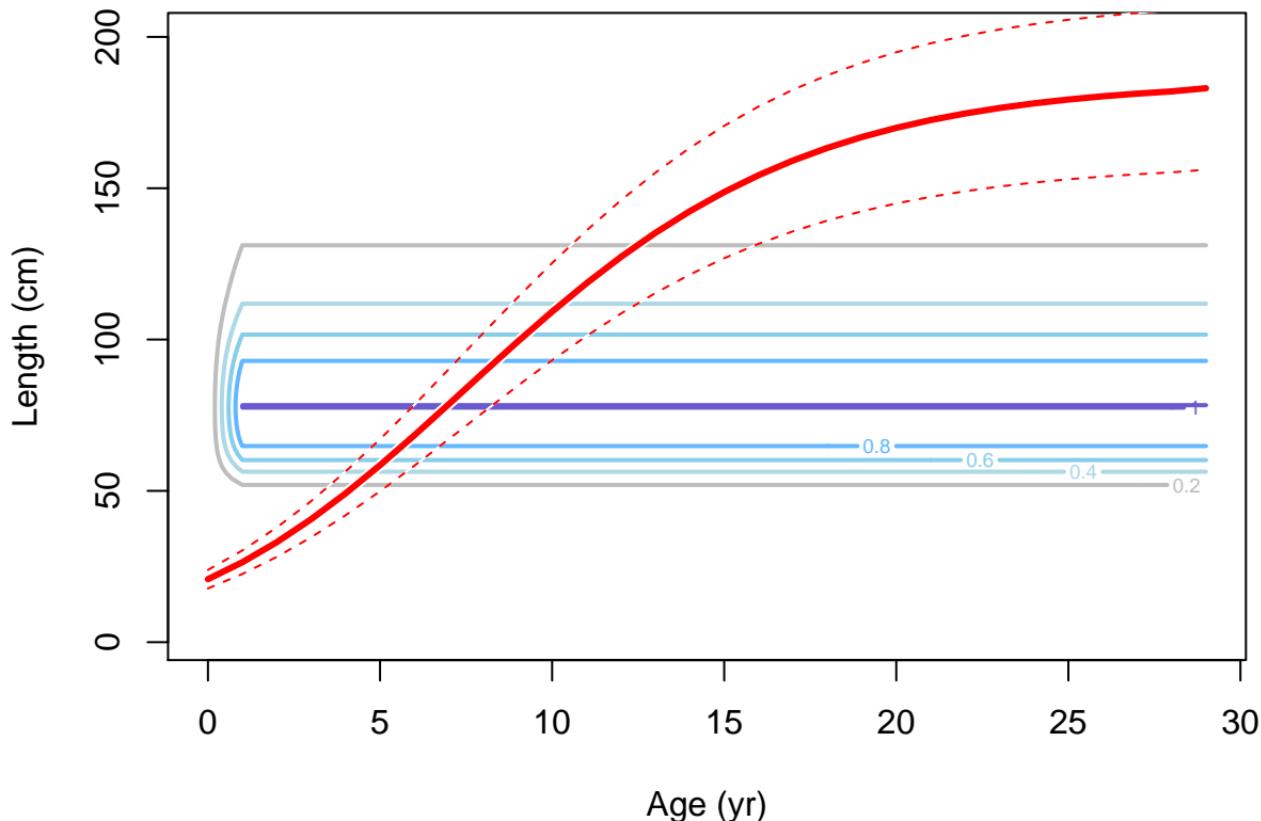
## Female ending year selectivity and growth for F16-DEL\_NE



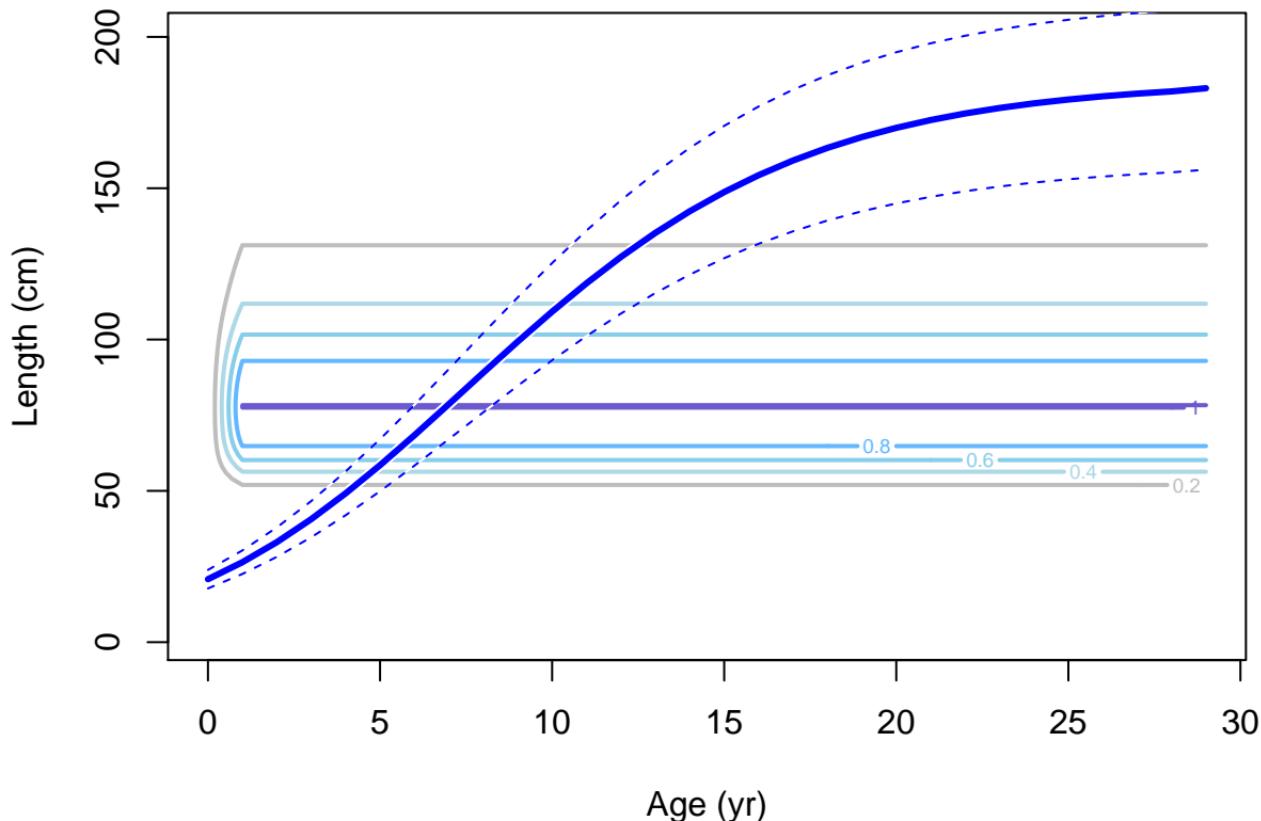
## Male ending year selectivity and growth for F16-DEL\_NE



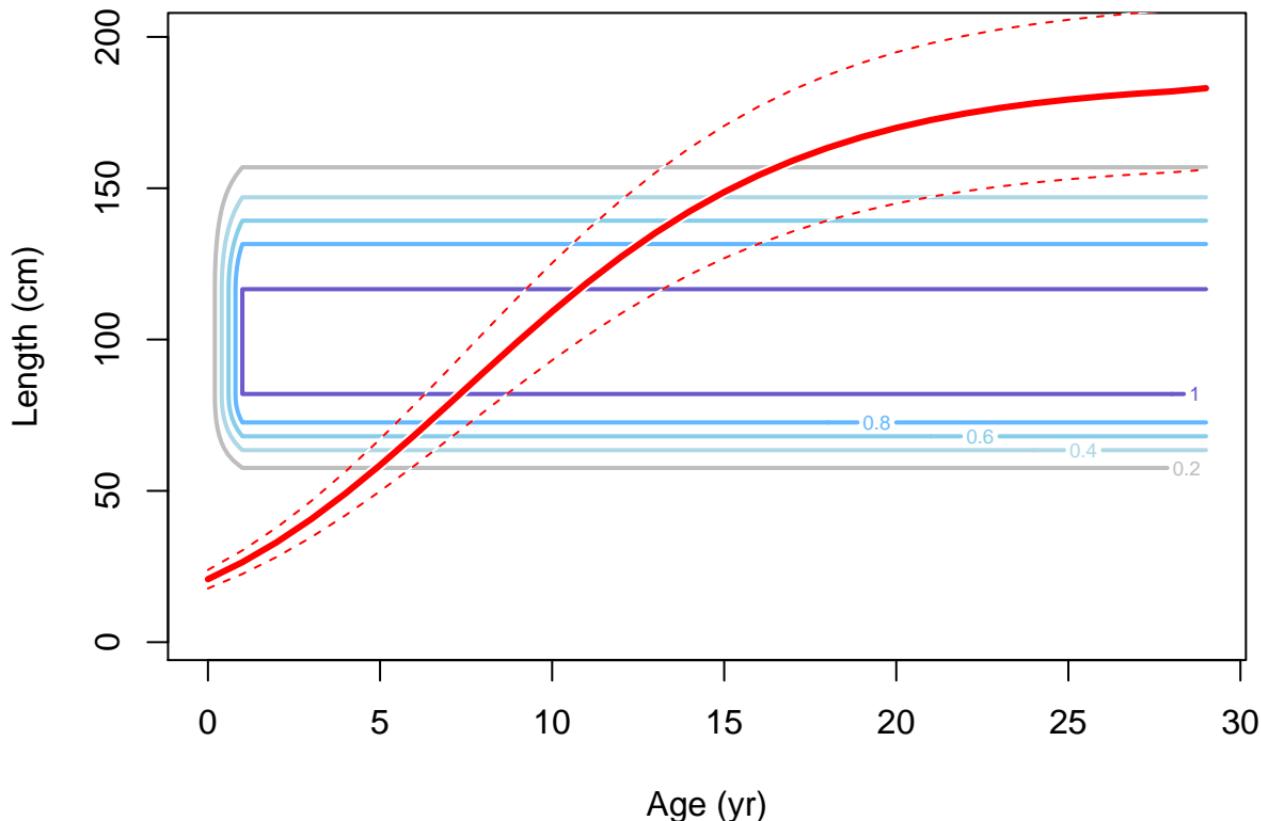
## Female ending year selectivity and growth for F17-DEL\_M



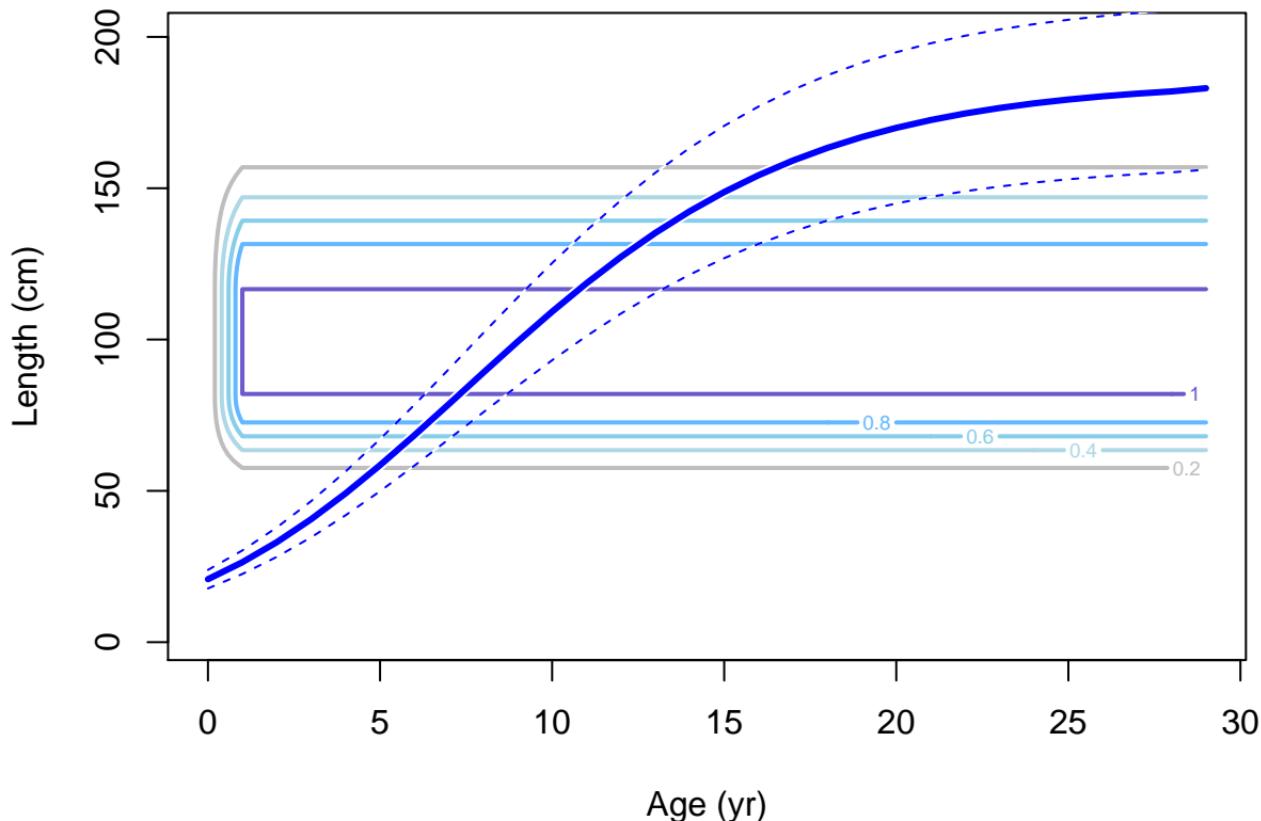
## Male ending year selectivity and growth for F17-DEL\_M



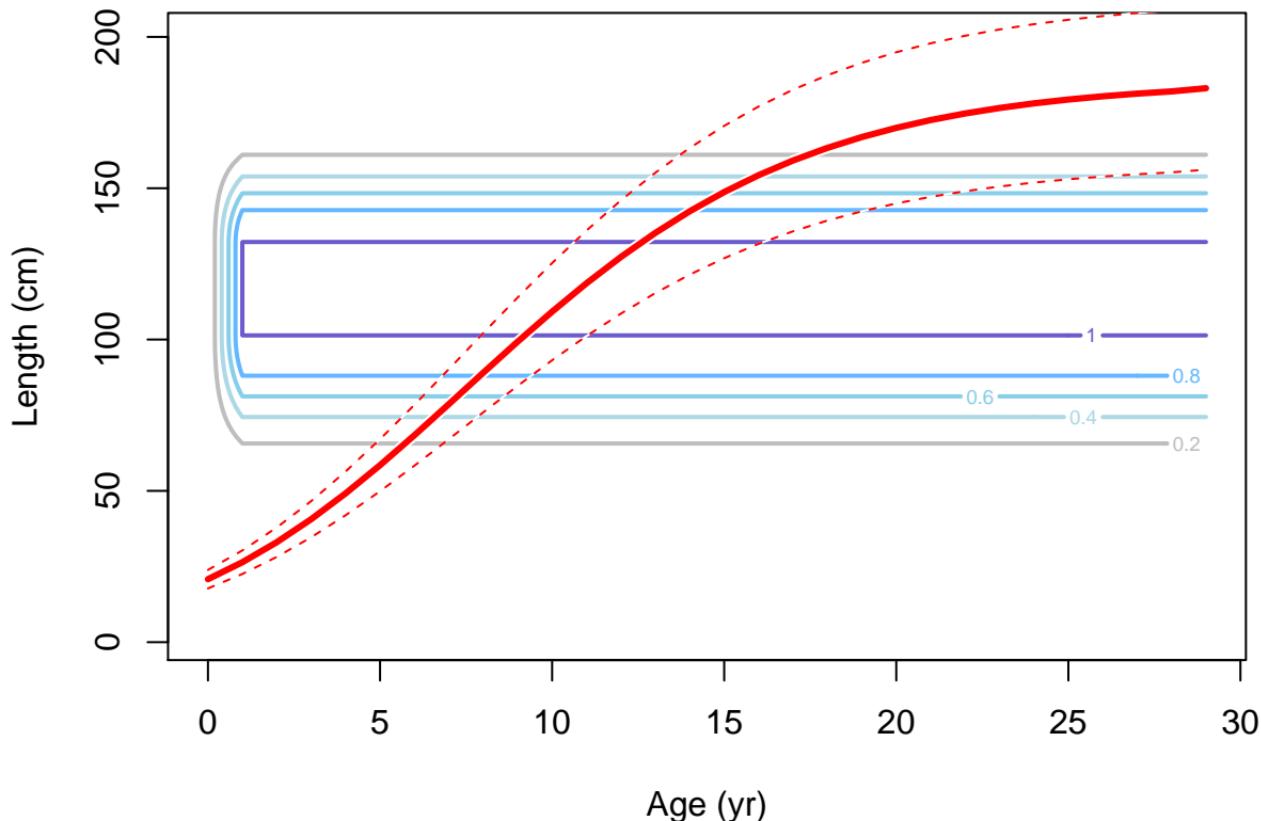
## Female ending year selectivity and growth for F18-DEL\_C



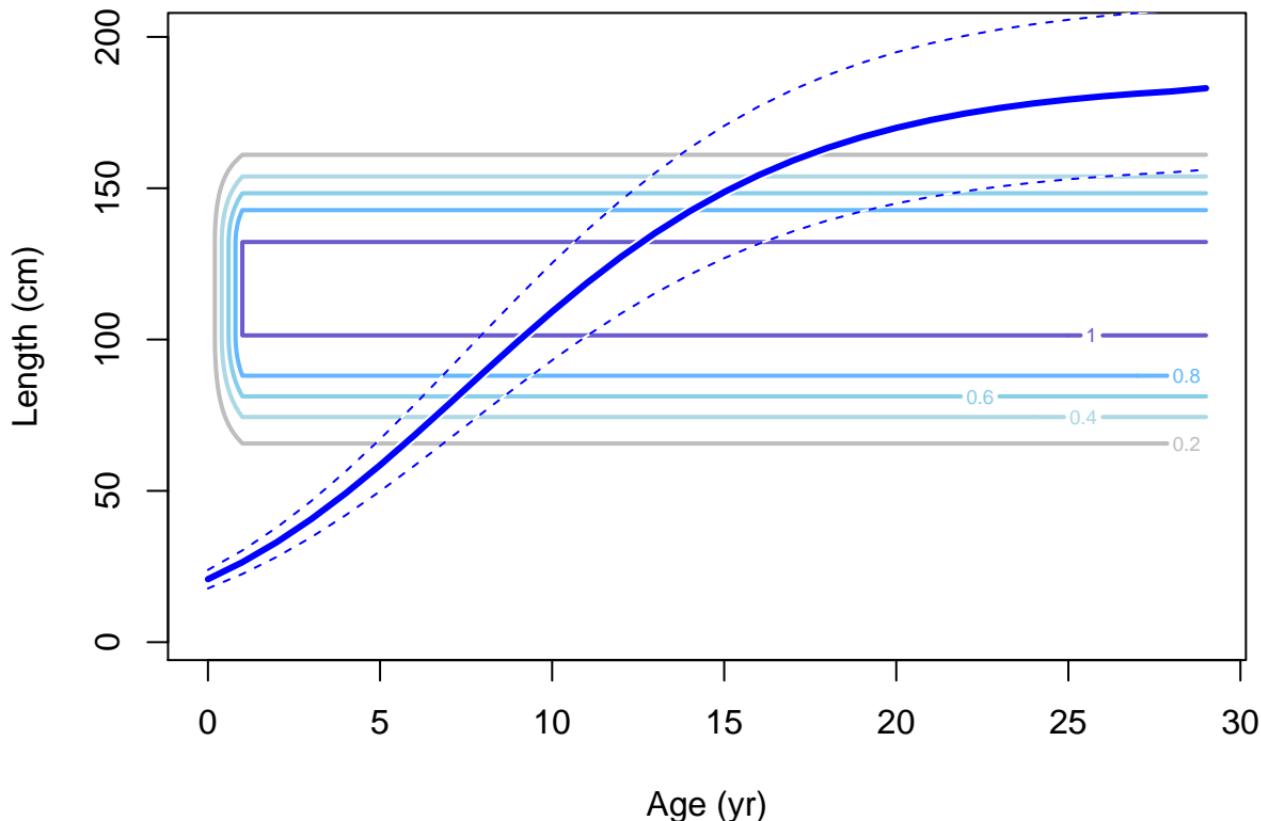
## Male ending year selectivity and growth for F18-DEL\_C



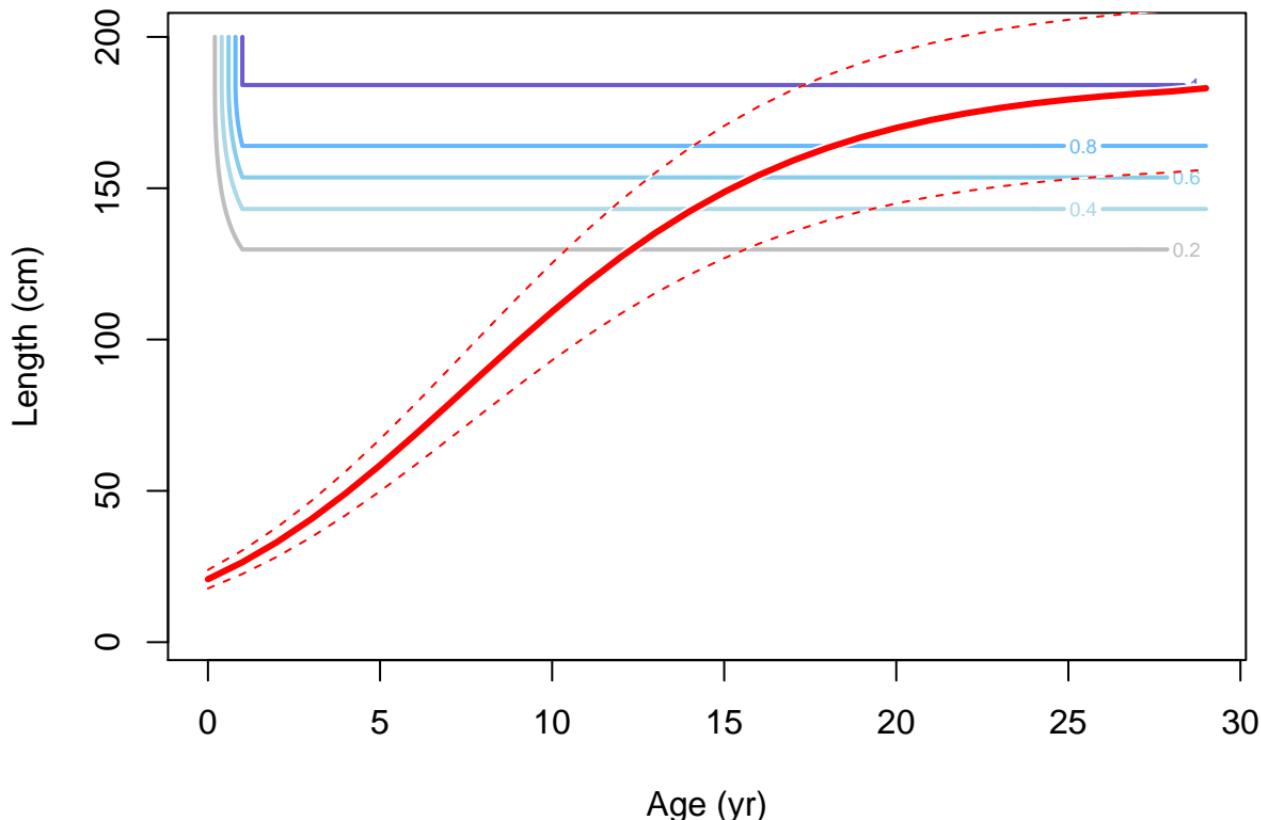
## Female ending year selectivity and growth for F19-DEL\_P



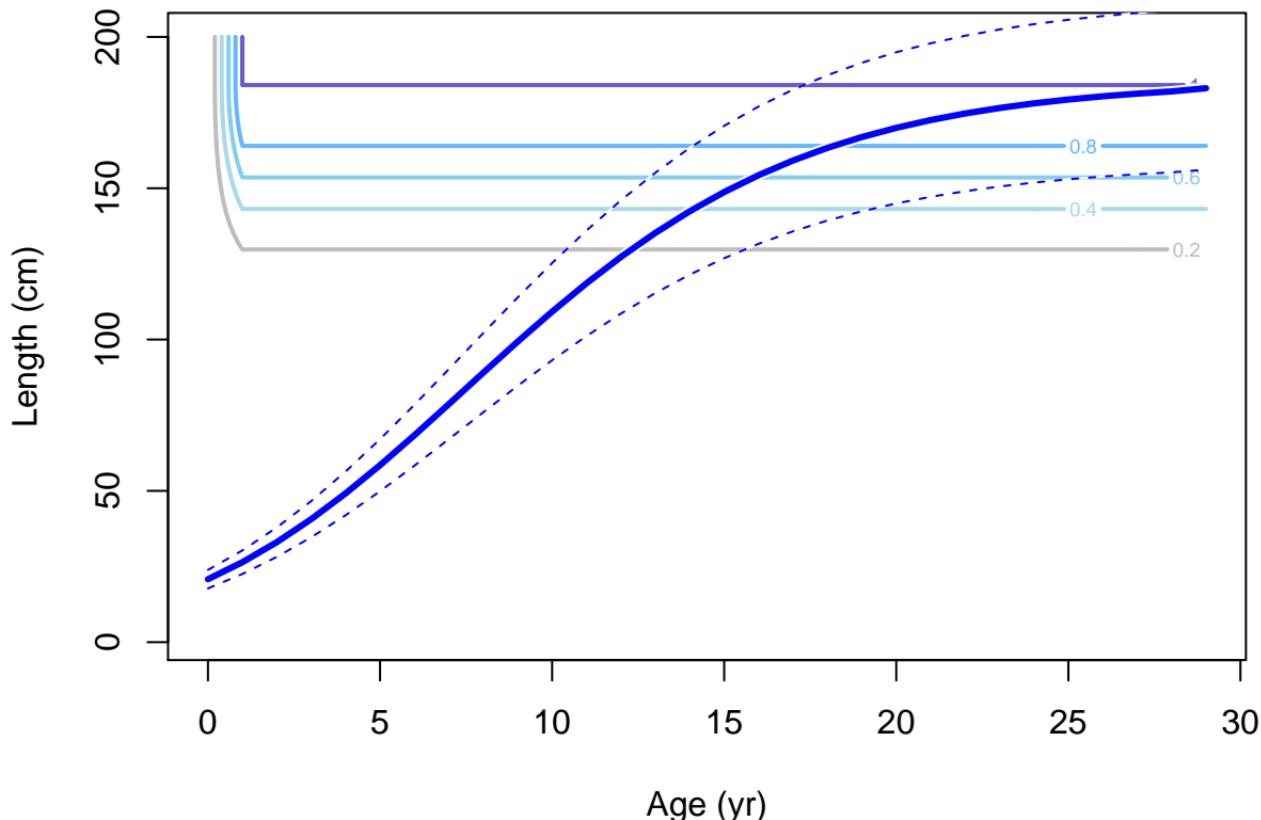
## Male ending year selectivity and growth for F19-DEL\_P



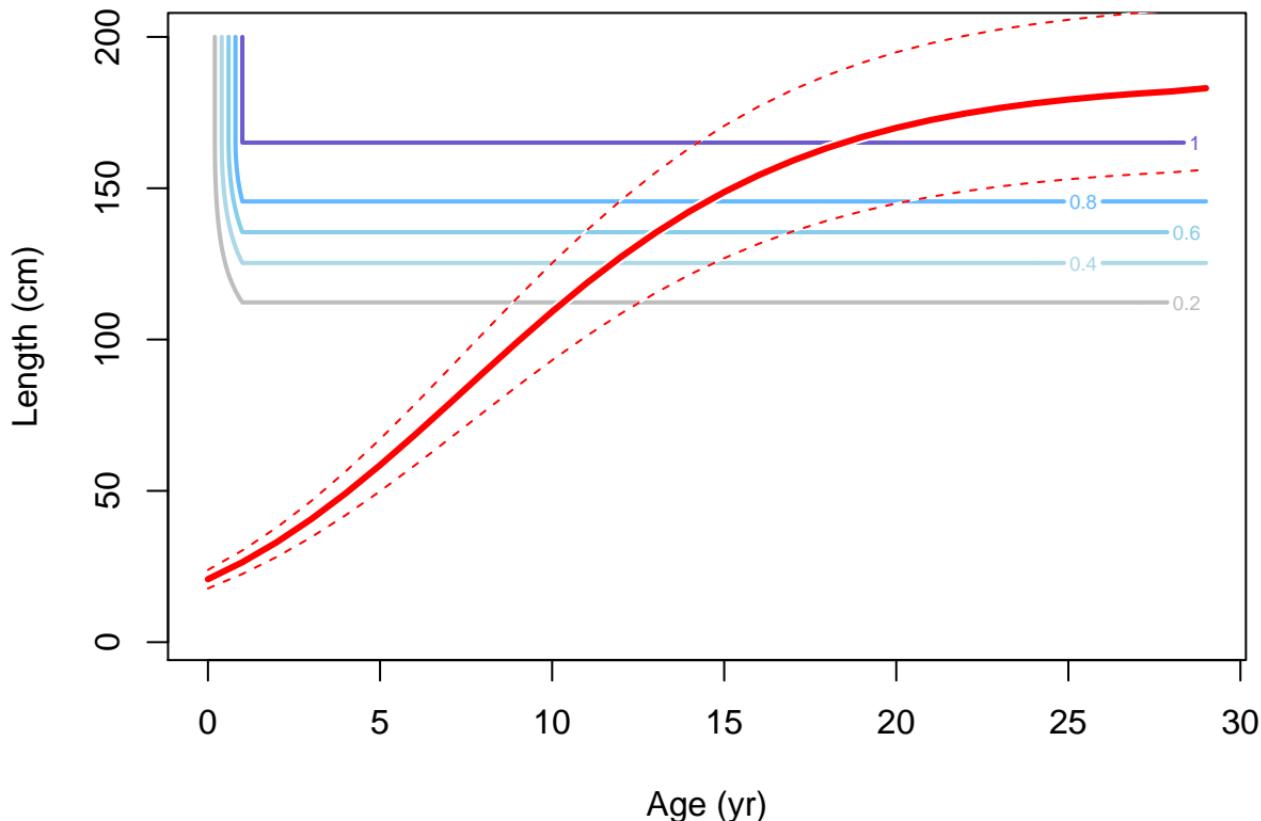
## Female ending year selectivity and growth for F20-DEL\_S



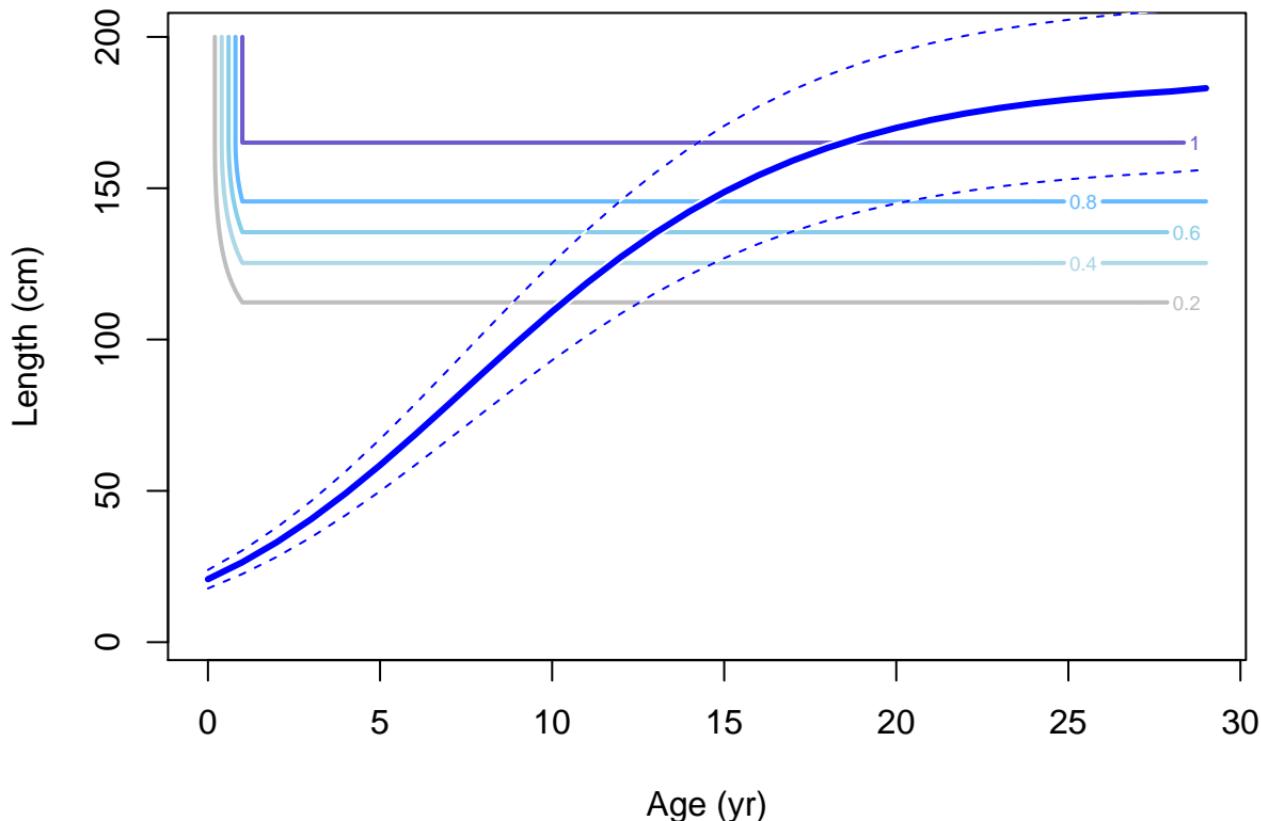
## Male ending year selectivity and growth for F20-DEL\_S



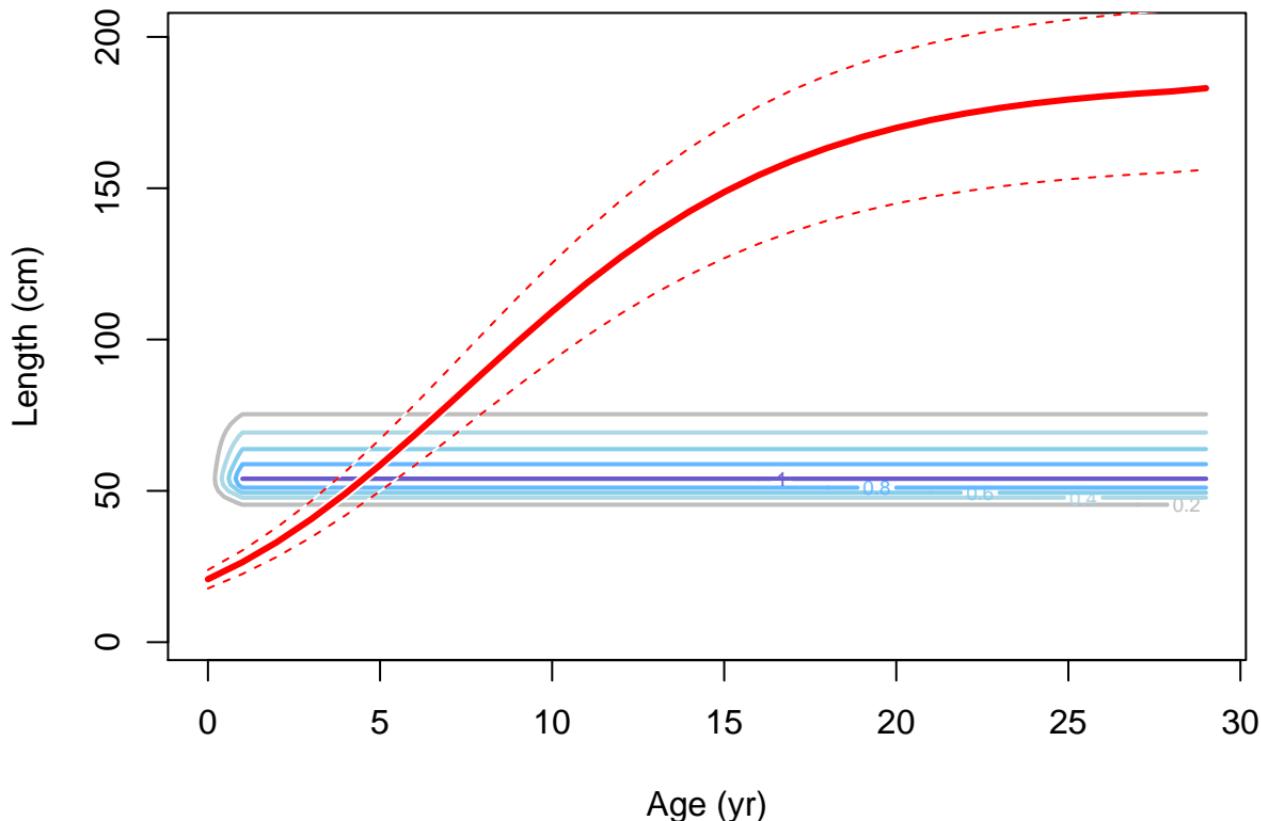
## Female ending year selectivity and growth for F21-DEL\_I



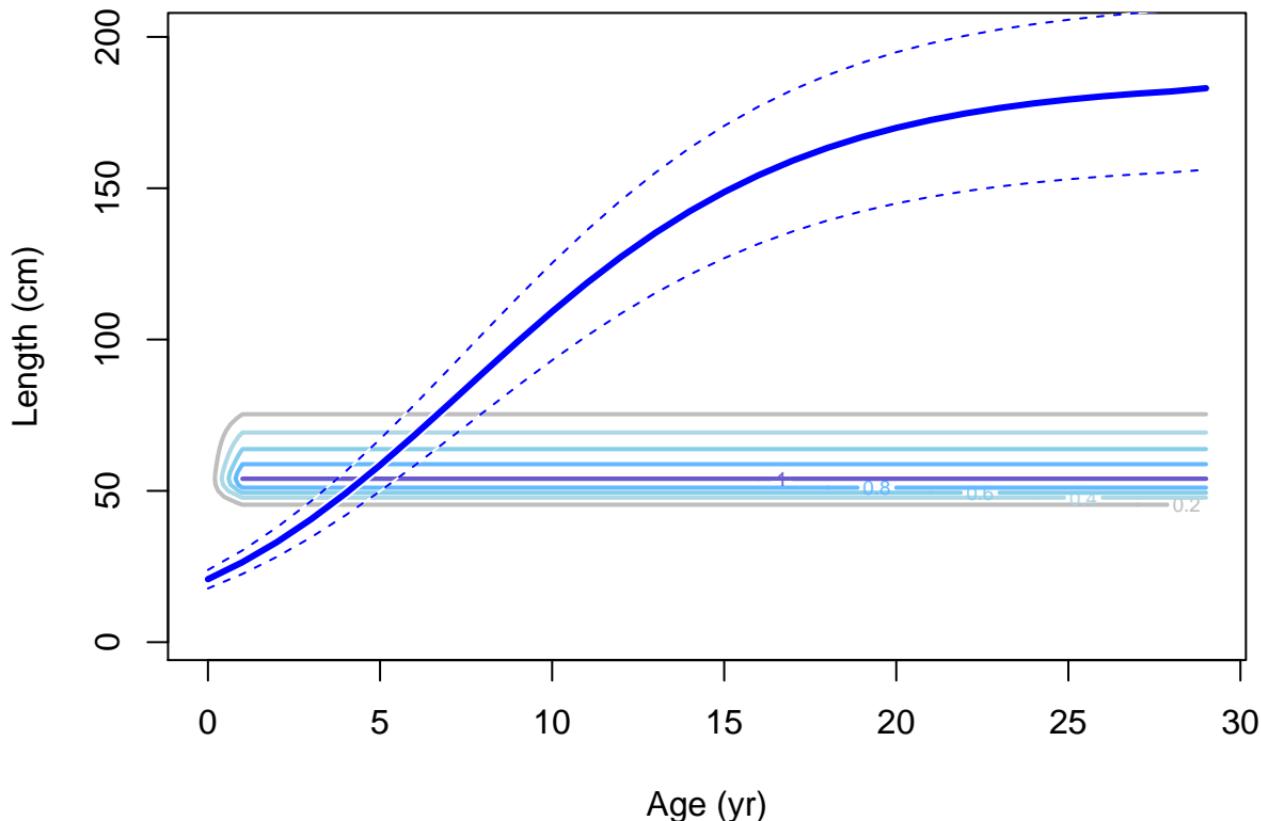
## Male ending year selectivity and growth for F21-DEL\_I



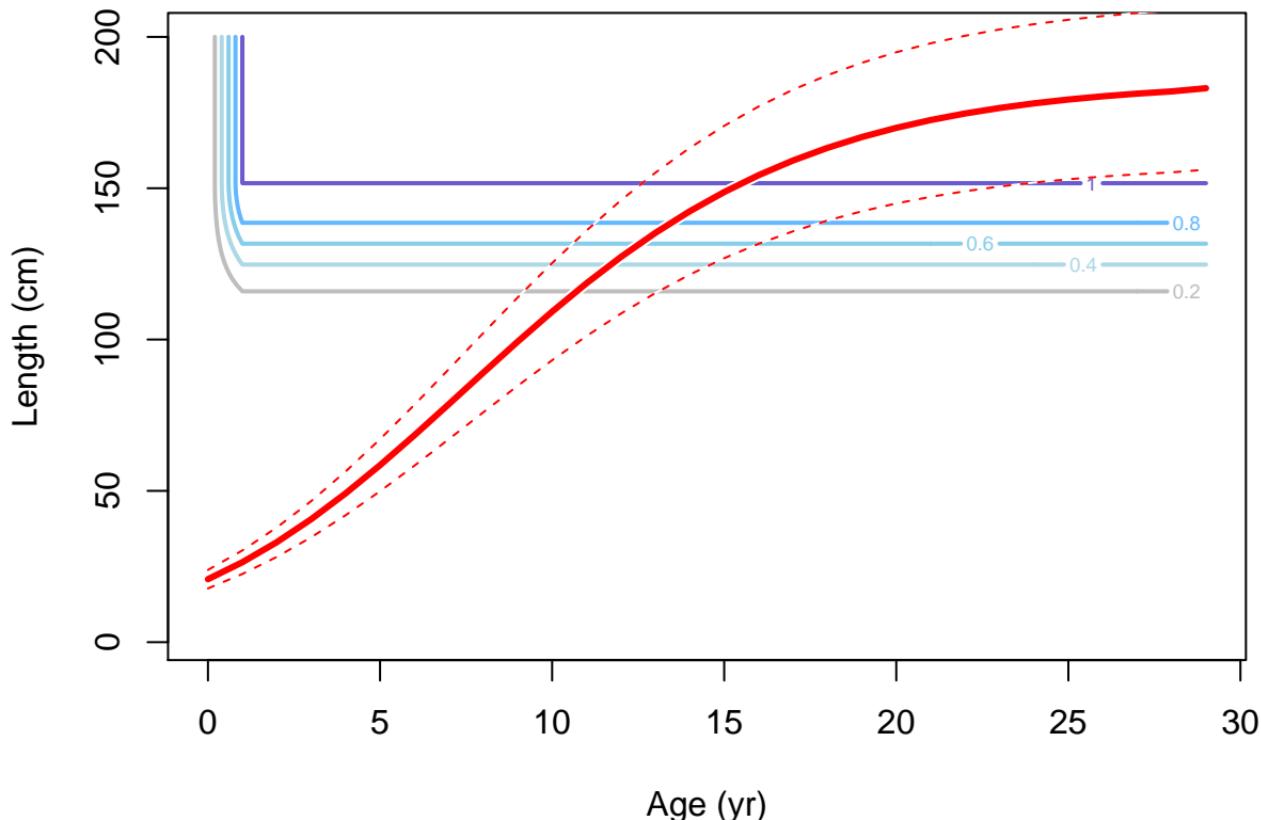
## Female ending year selectivity and growth for F22-BB



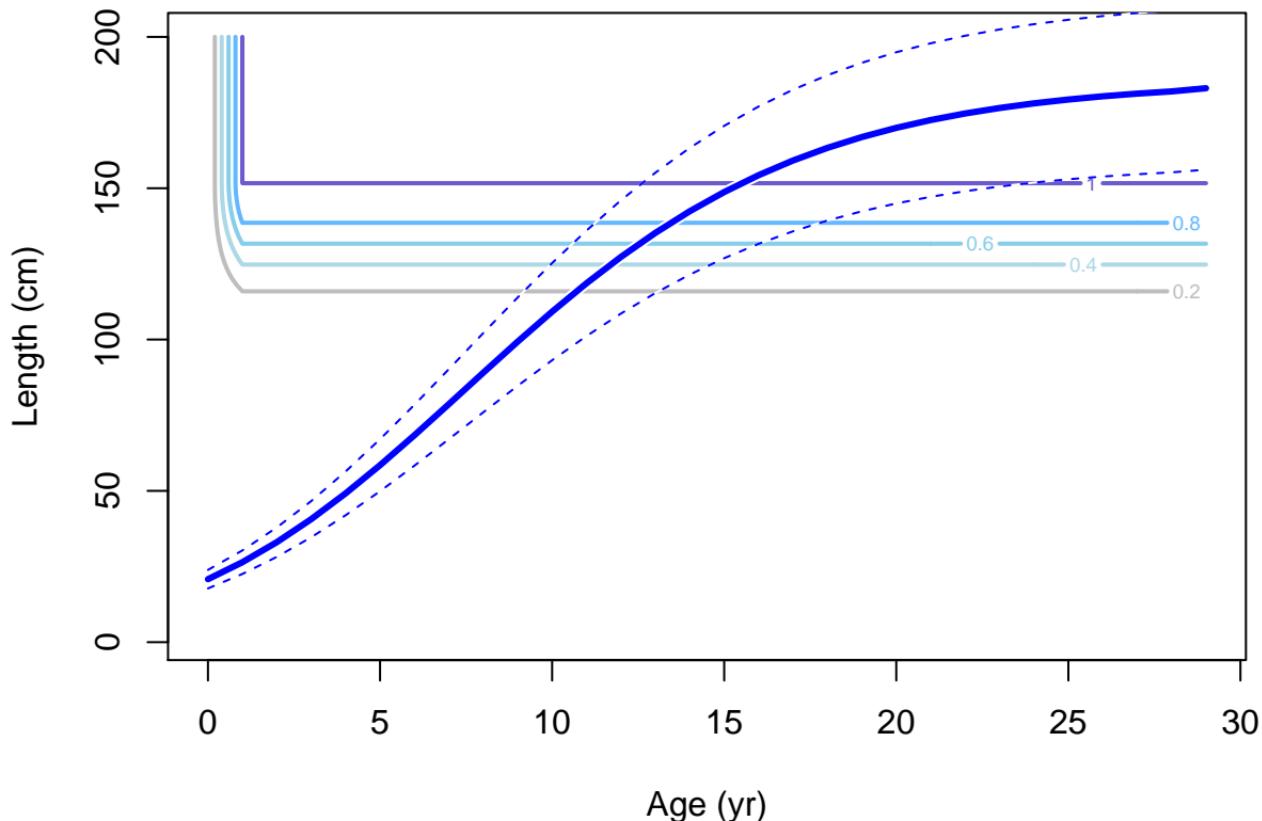
## Male ending year selectivity and growth for F22-BB



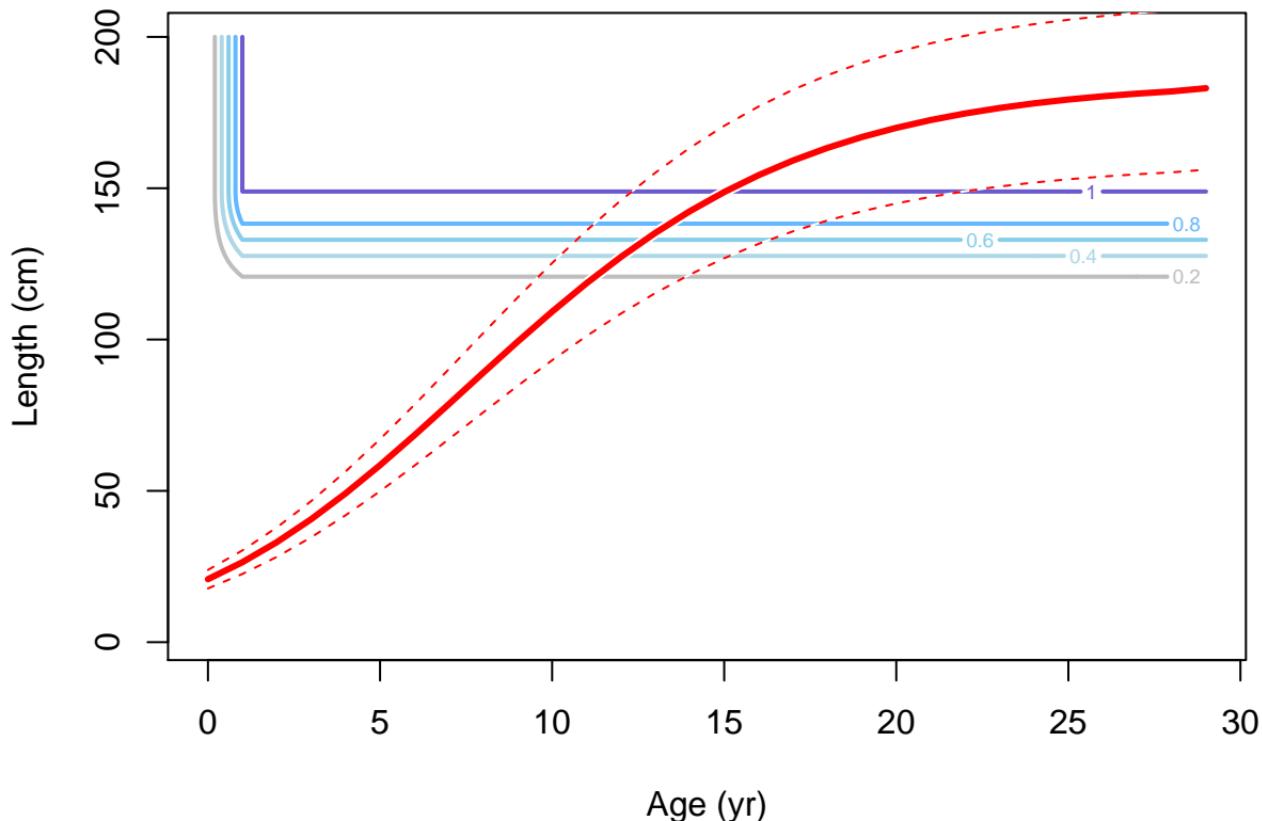
## Female ending year selectivity and growth for F29-LL\_W\_Q14n



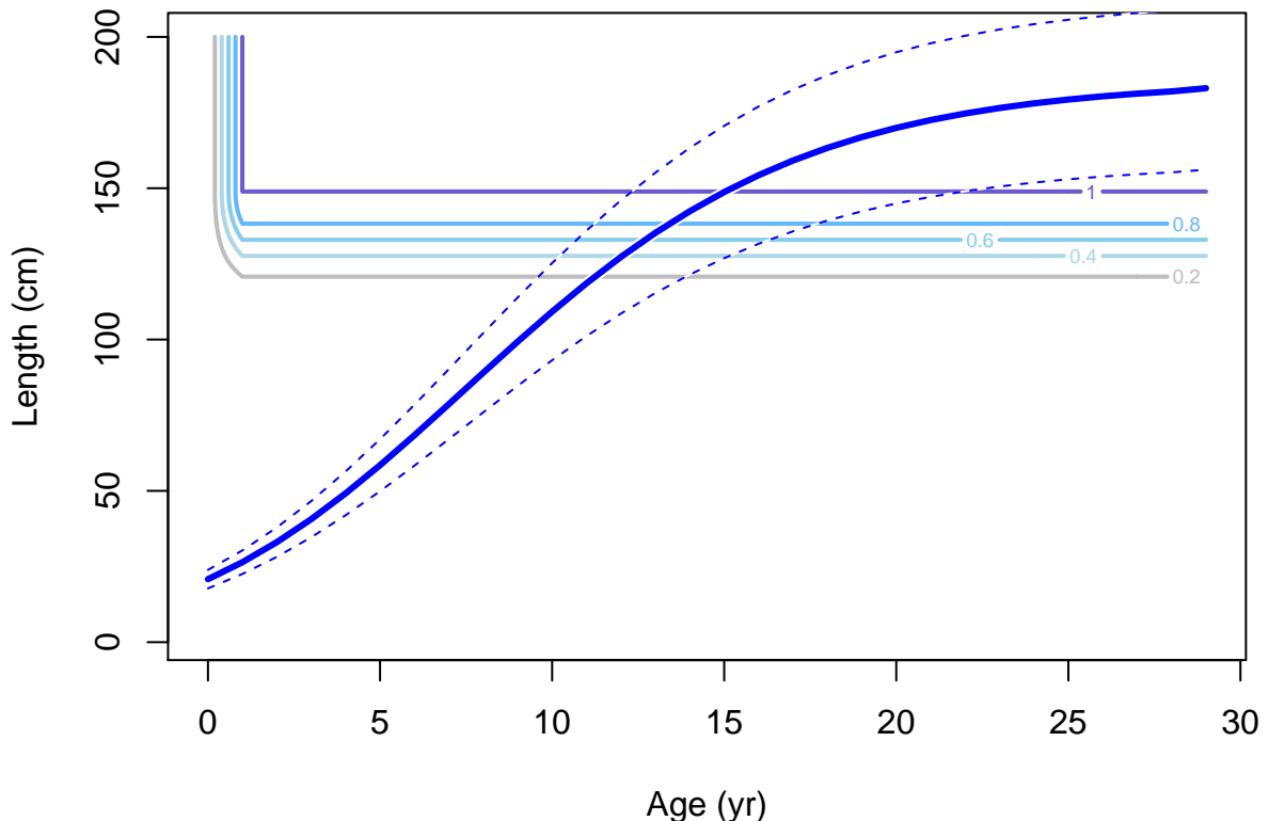
## Male ending year selectivity and growth for F29–LL\_W\_Q14n



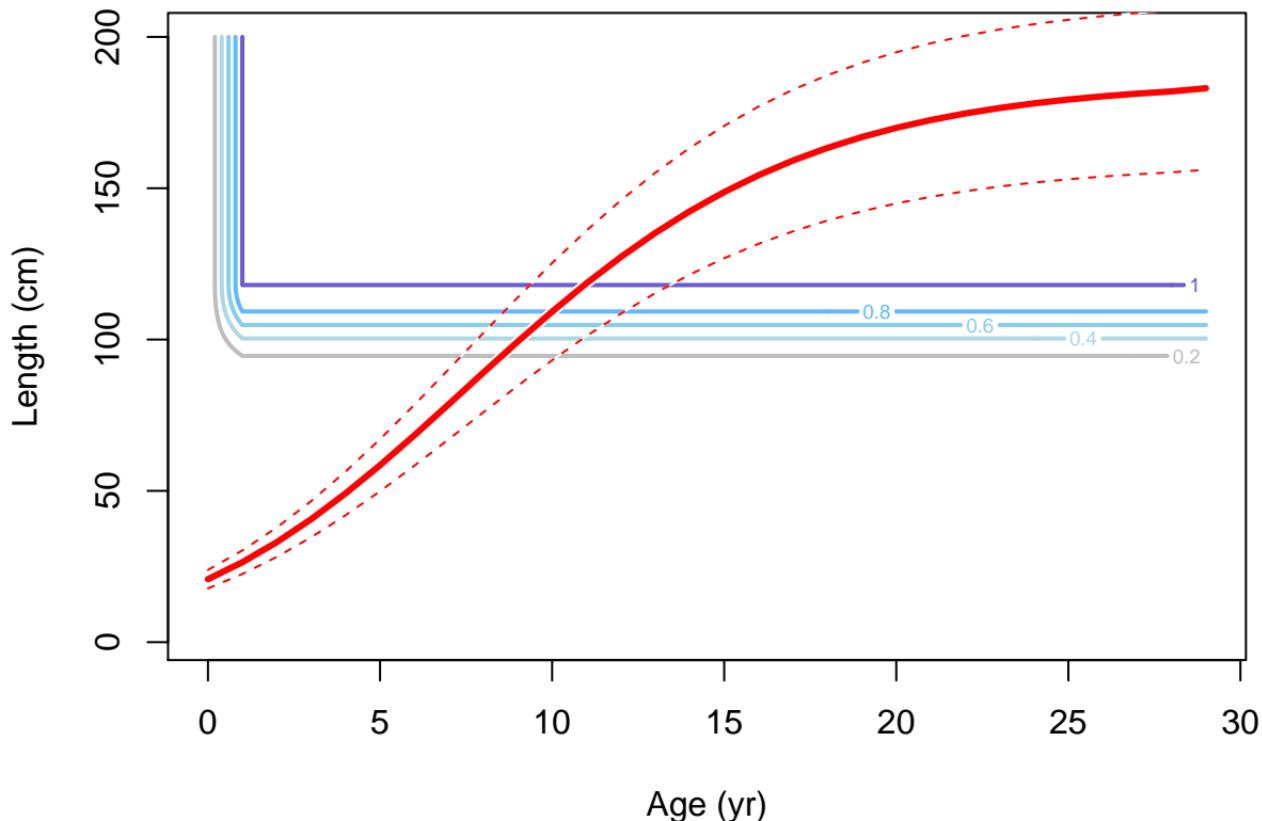
## Female ending year selectivity and growth for F30-LL\_C\_Q14n



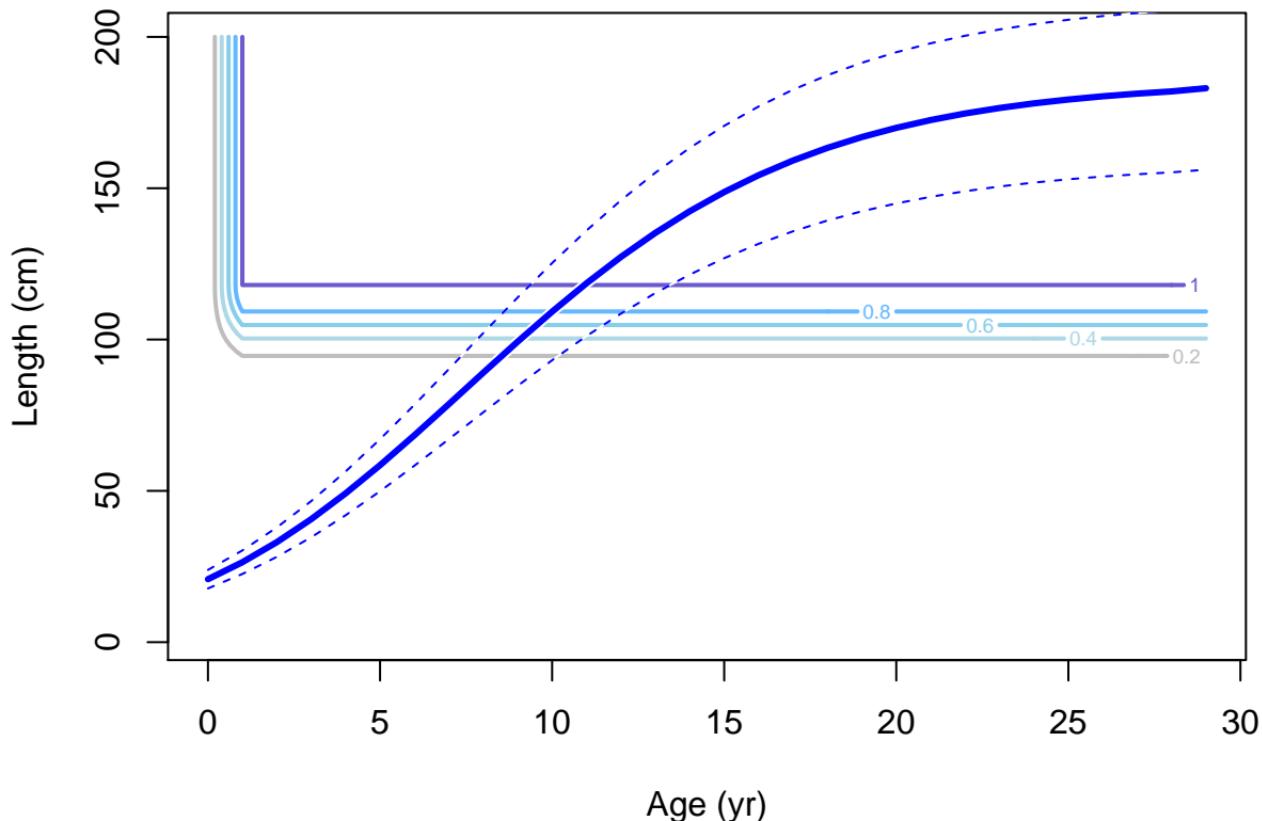
## Male ending year selectivity and growth for F30-LL\_C\_Q14n



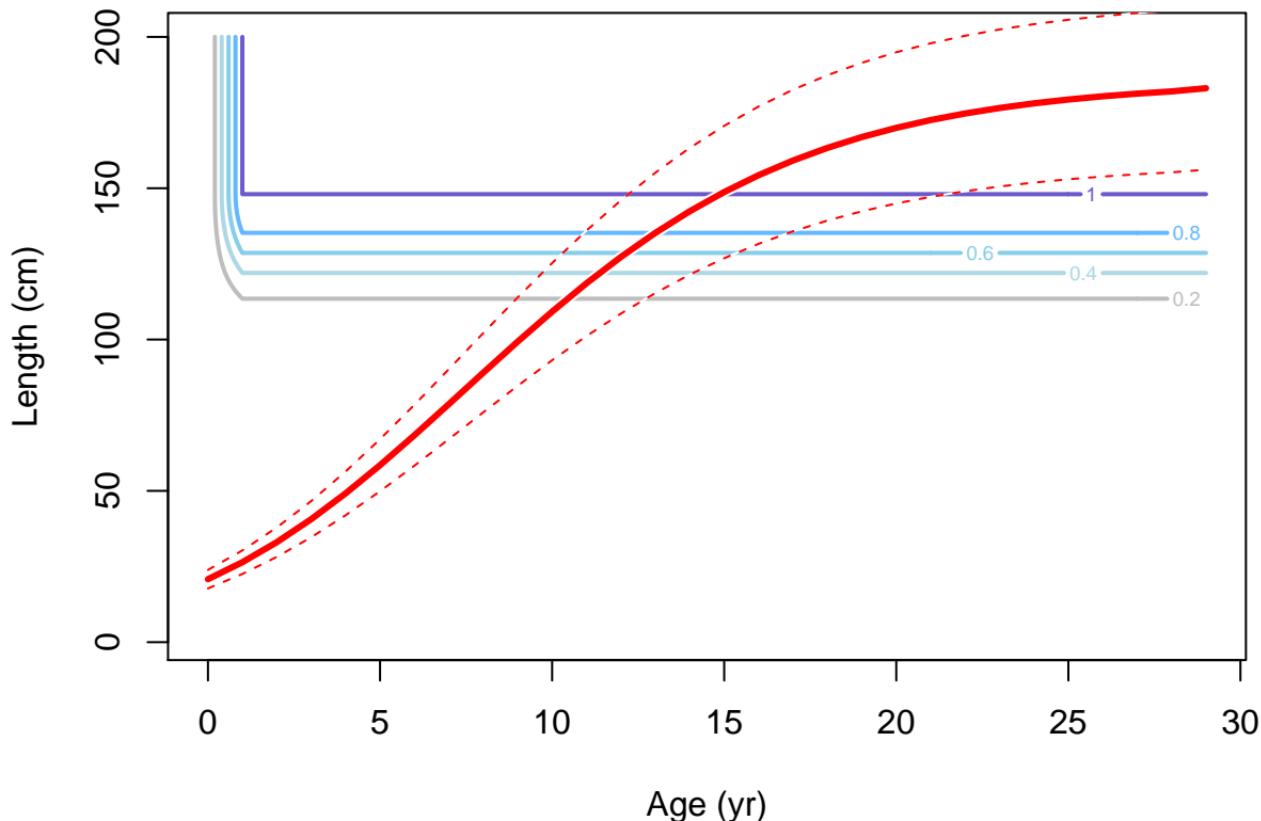
## Female ending year selectivity and growth for F31-LL\_E\_Q14n



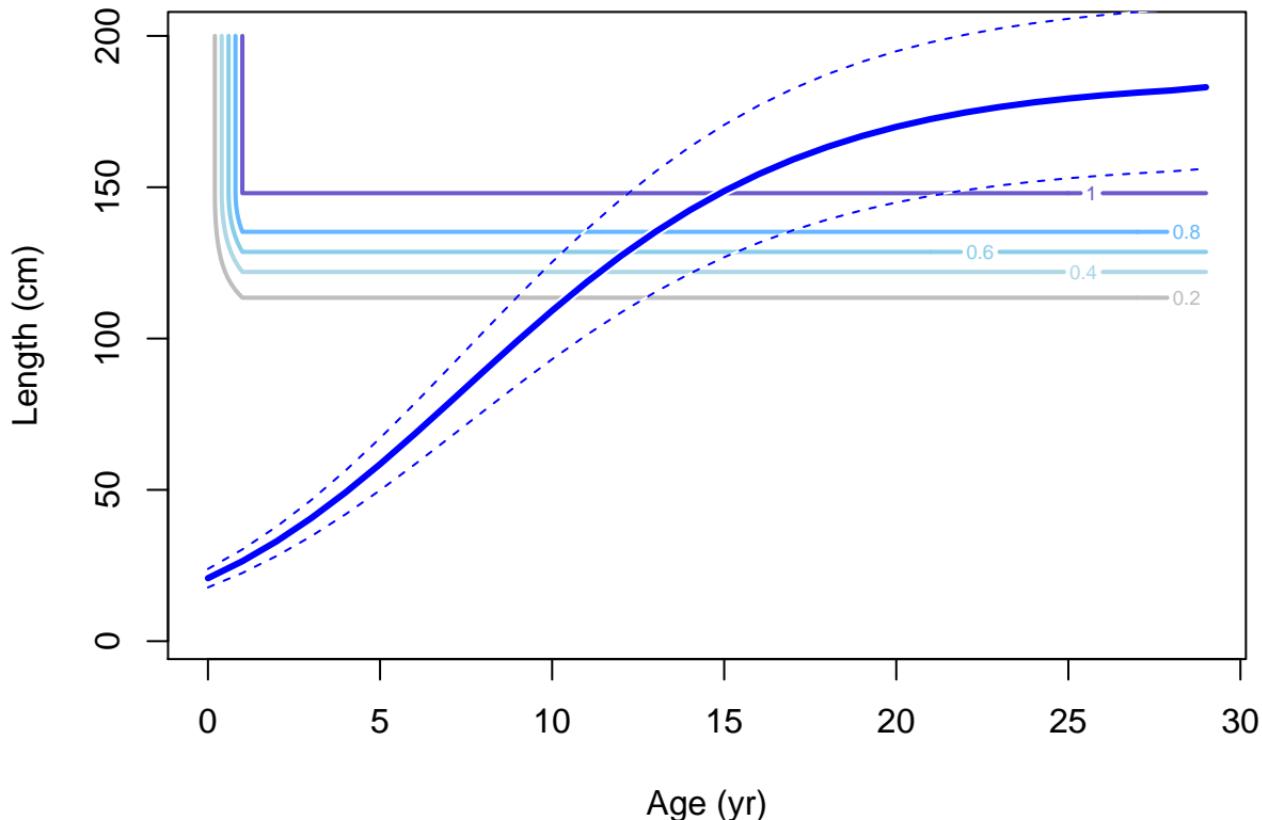
## Male ending year selectivity and growth for F31-LL\_E\_Q14n



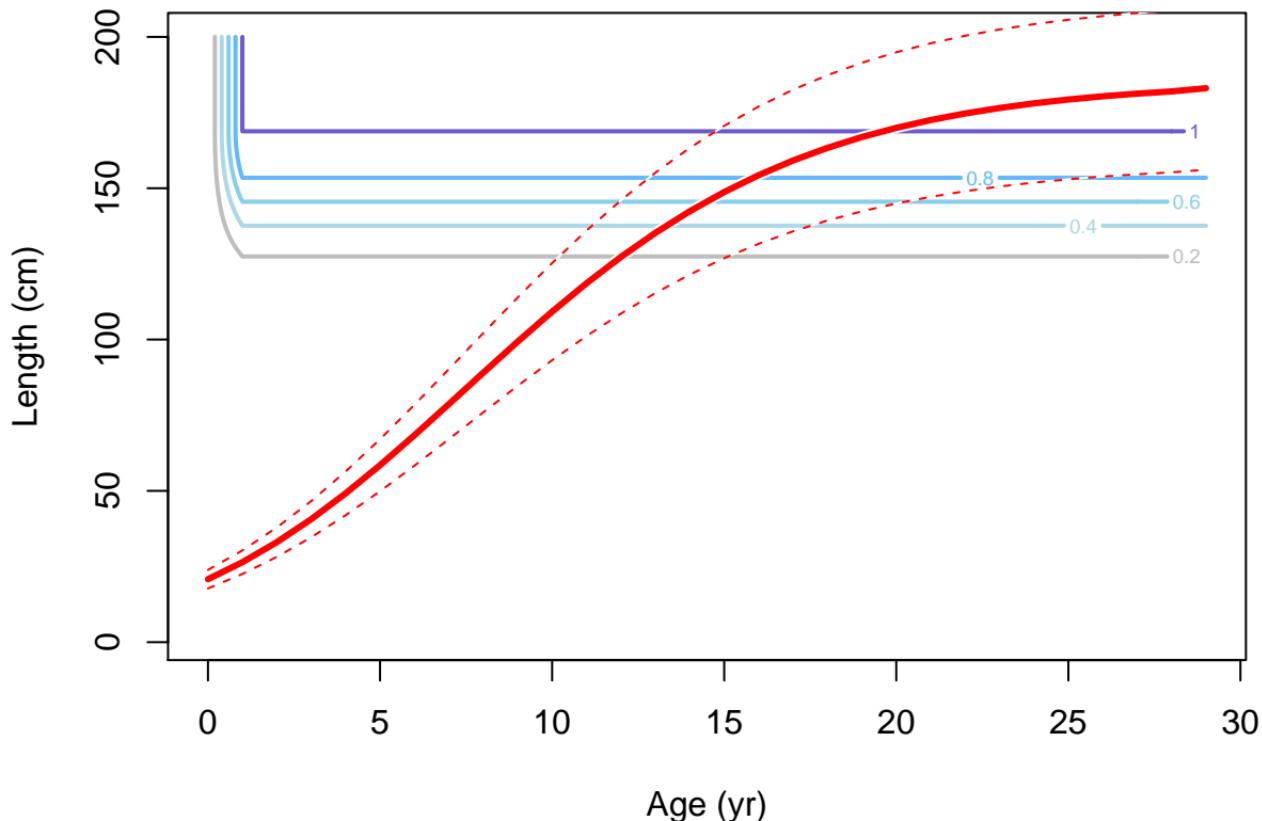
## Female ending year selectivity and growth for F32-LL\_W\_Q23n



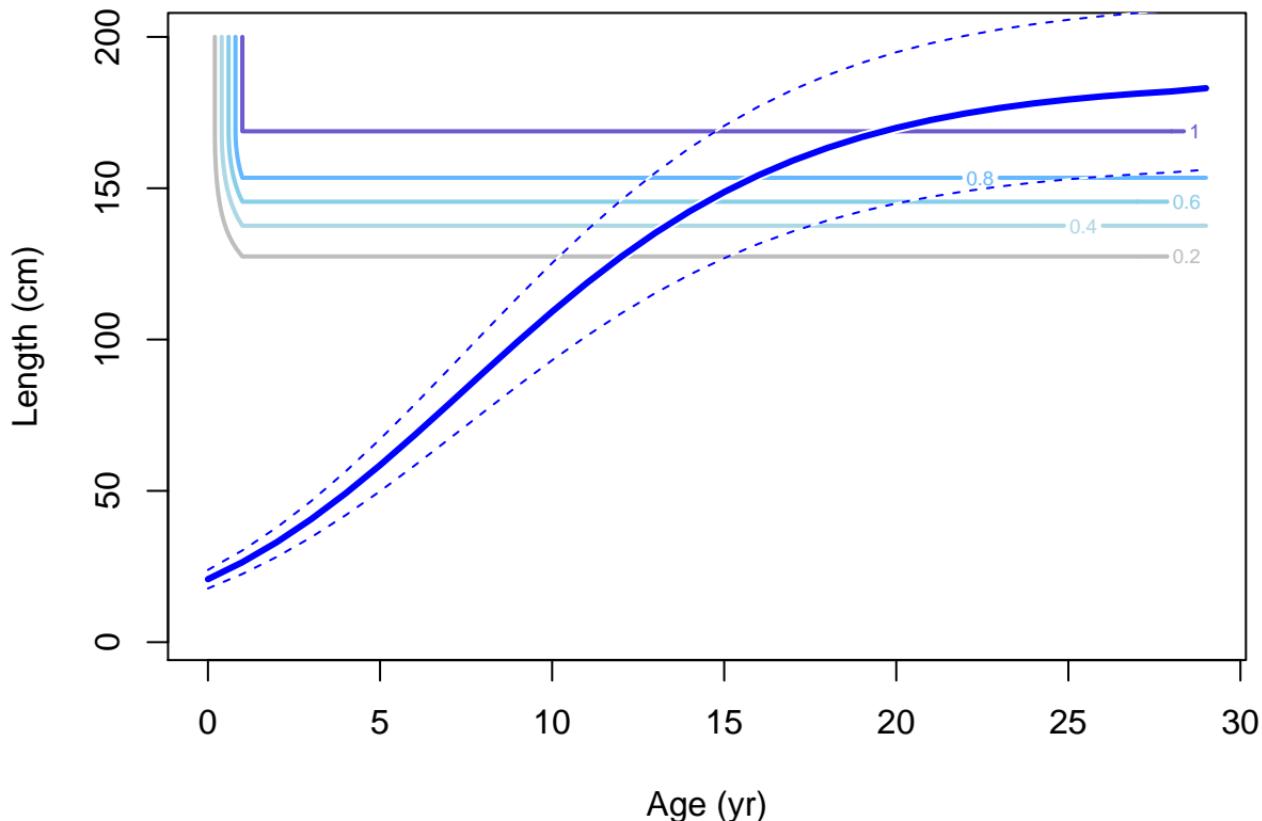
## Male ending year selectivity and growth for F32-LL\_W\_Q23n



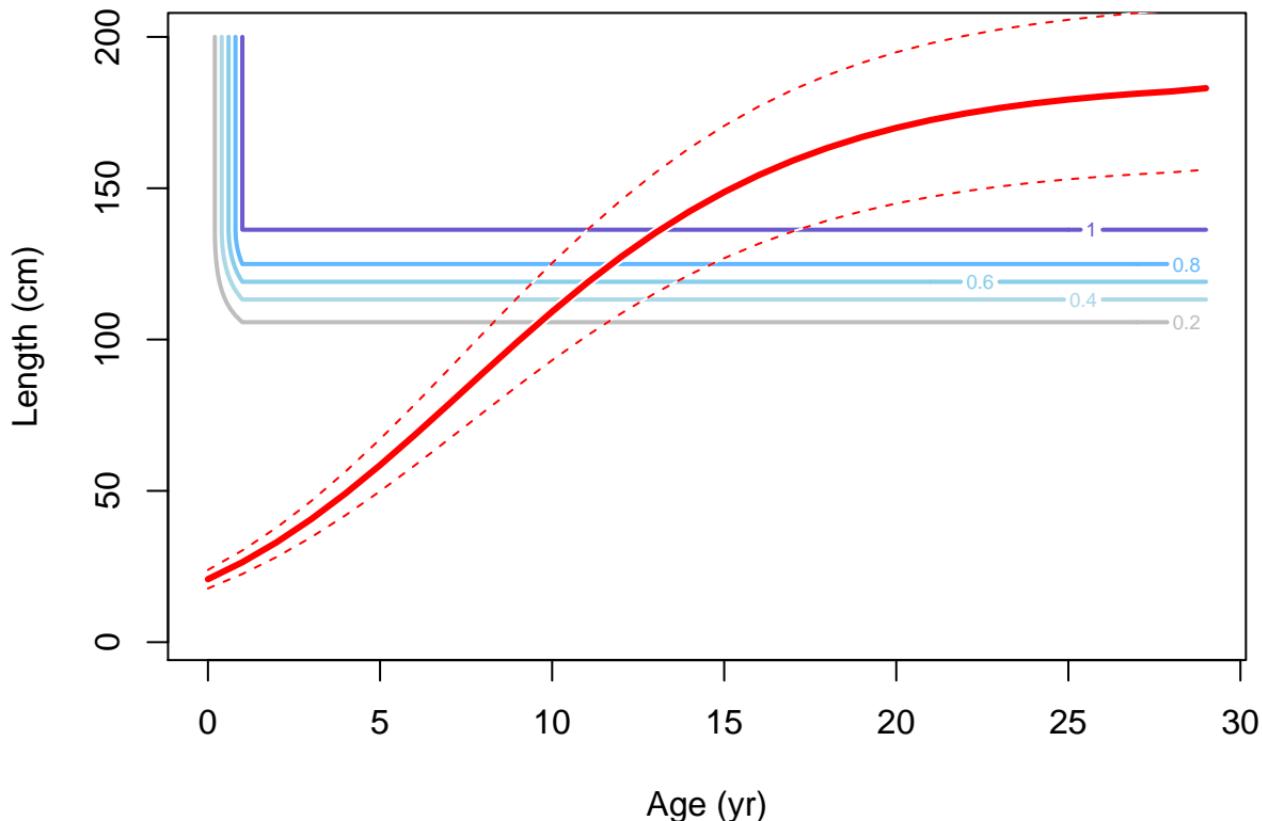
## Female ending year selectivity and growth for F33-LL\_C\_Q23n



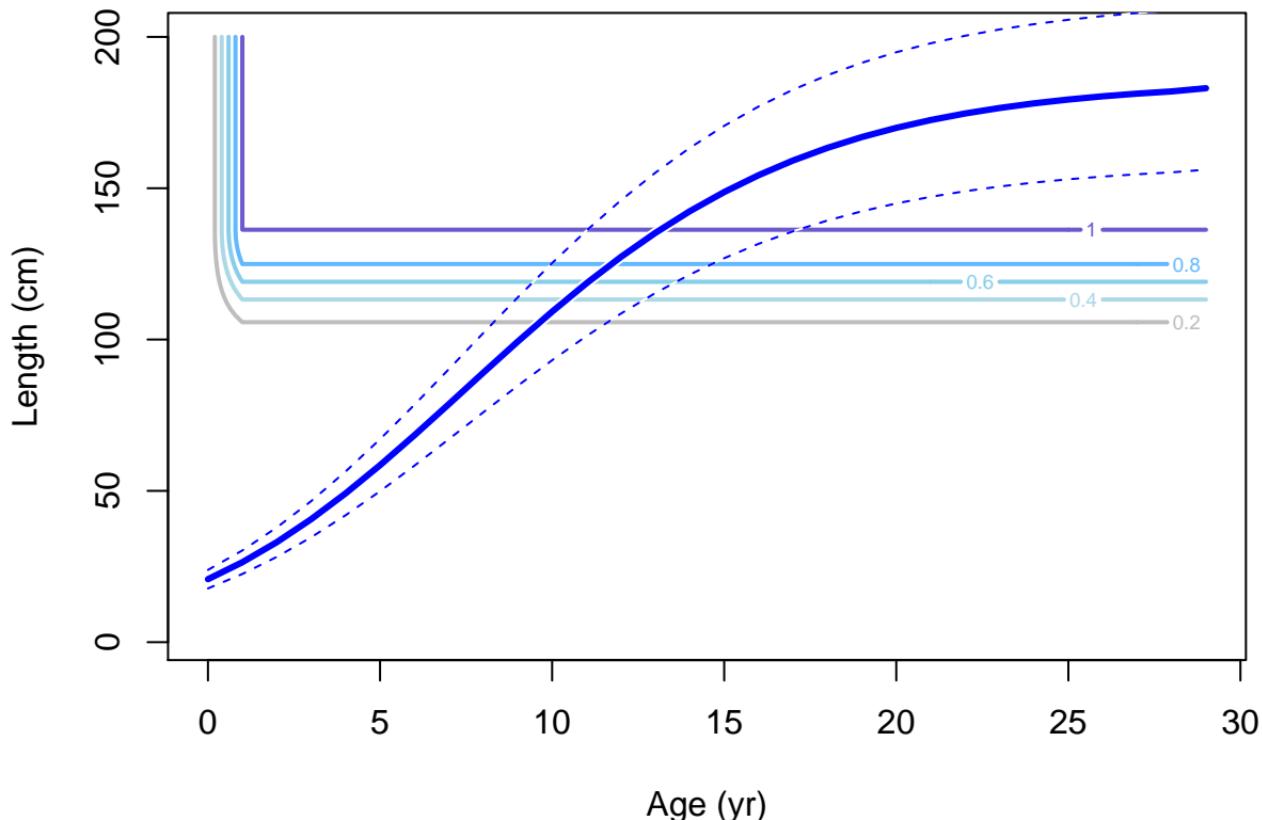
## Male ending year selectivity and growth for F33-LL\_C\_Q23n



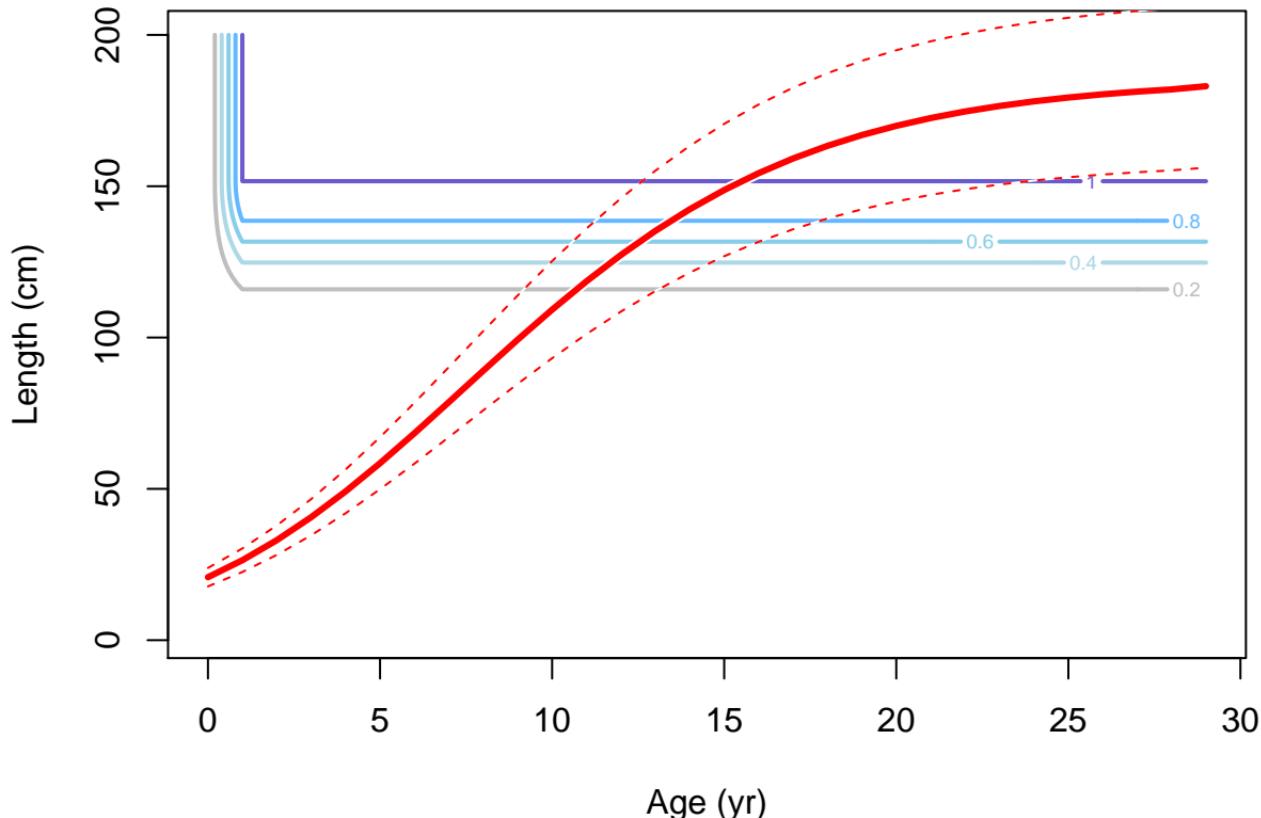
## Female ending year selectivity and growth for F34-LL\_E\_Q23n



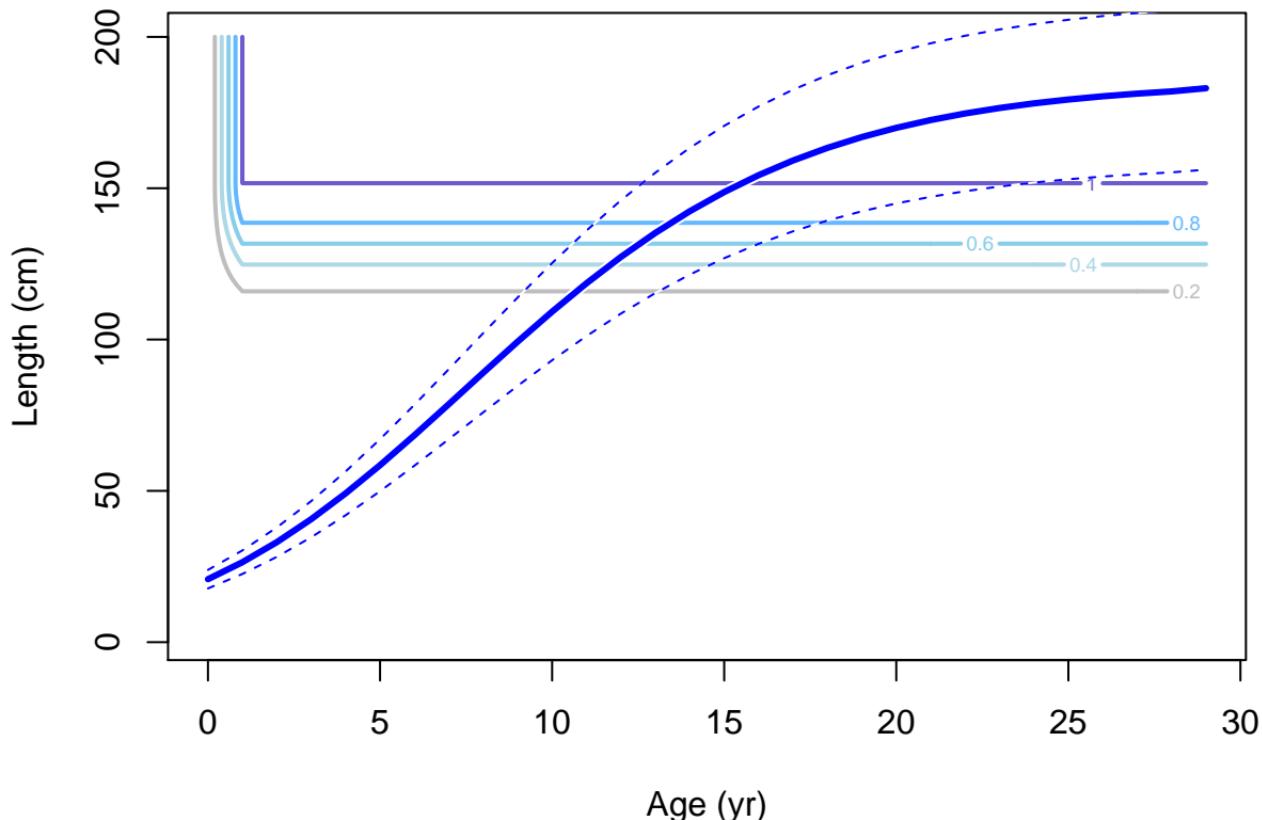
## Male ending year selectivity and growth for F34-LL\_E\_Q23n



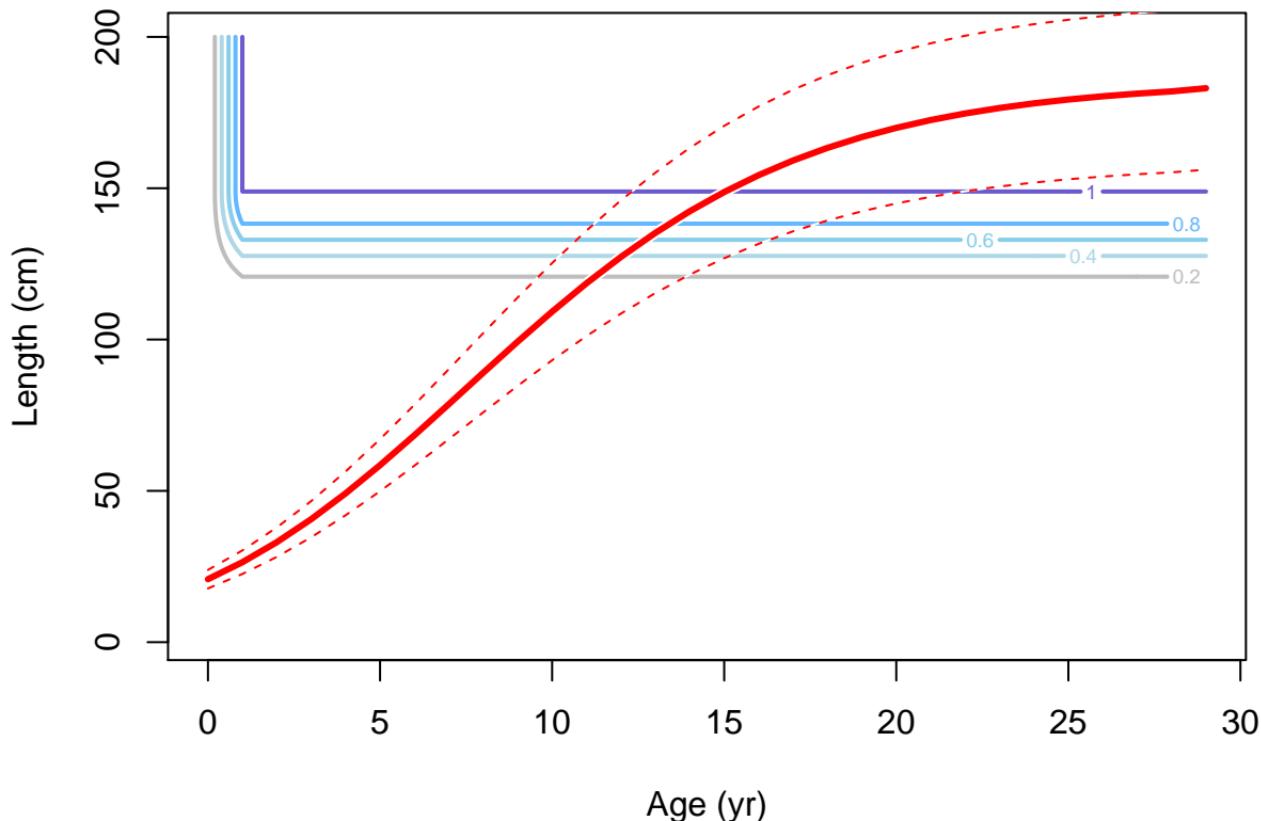
## Female ending year selectivity and growth for F35-LL\_W\_Q14w



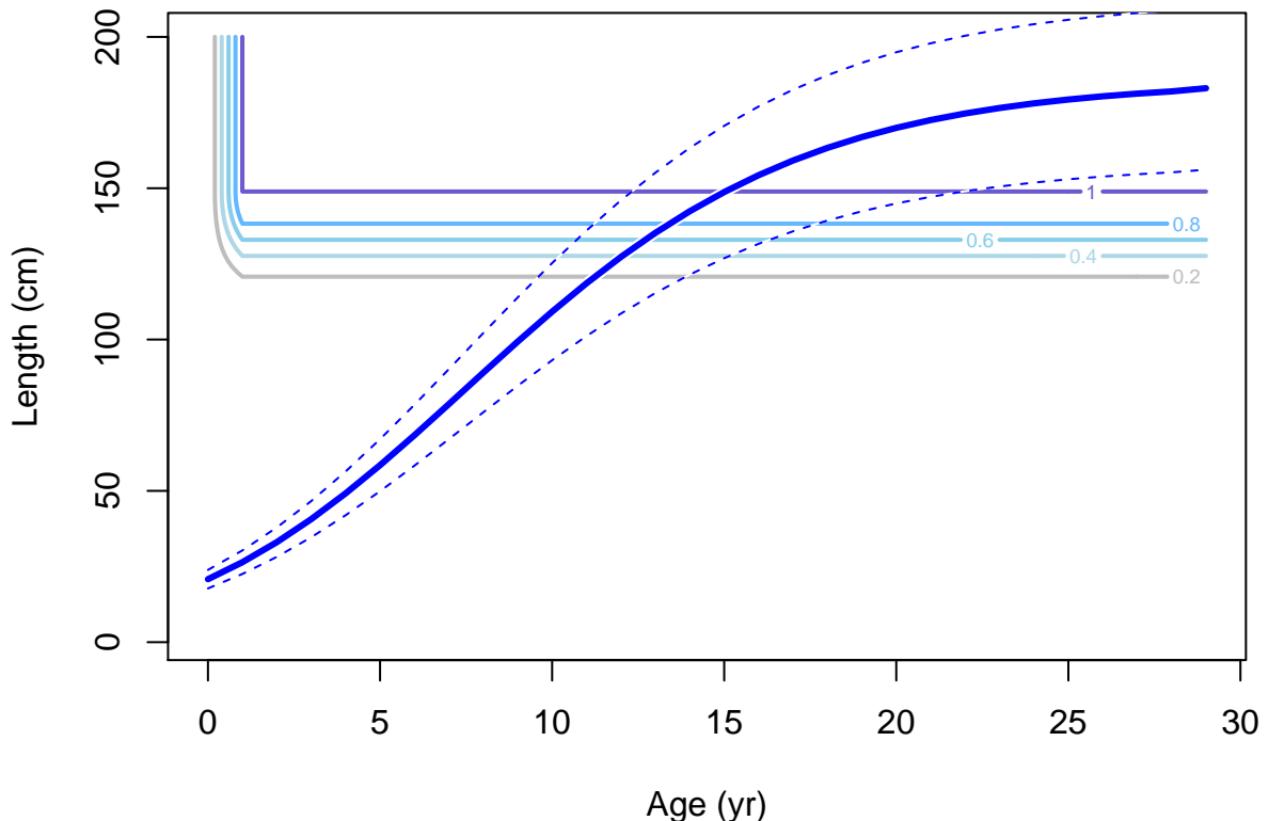
## Male ending year selectivity and growth for F35-LL\_W\_Q14w



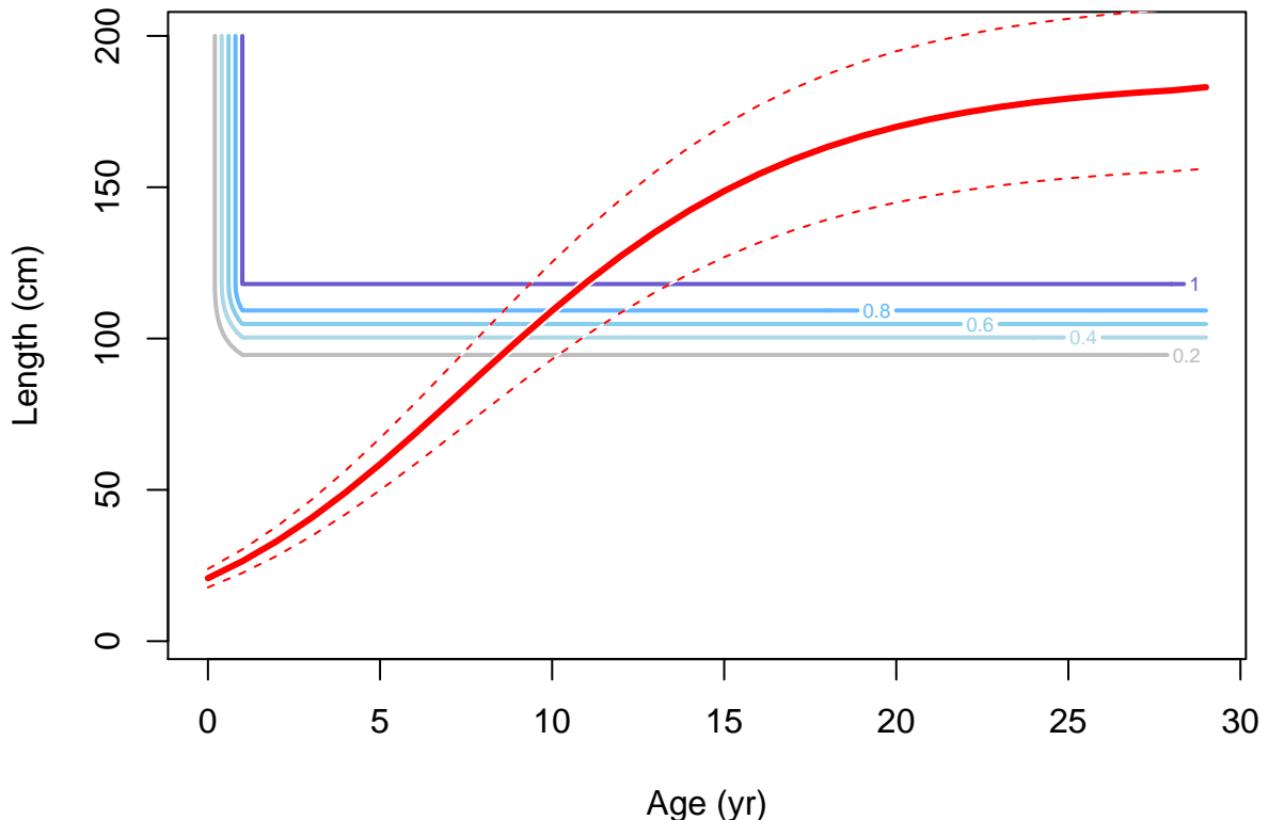
## Female ending year selectivity and growth for F36-LL\_C\_Q14w



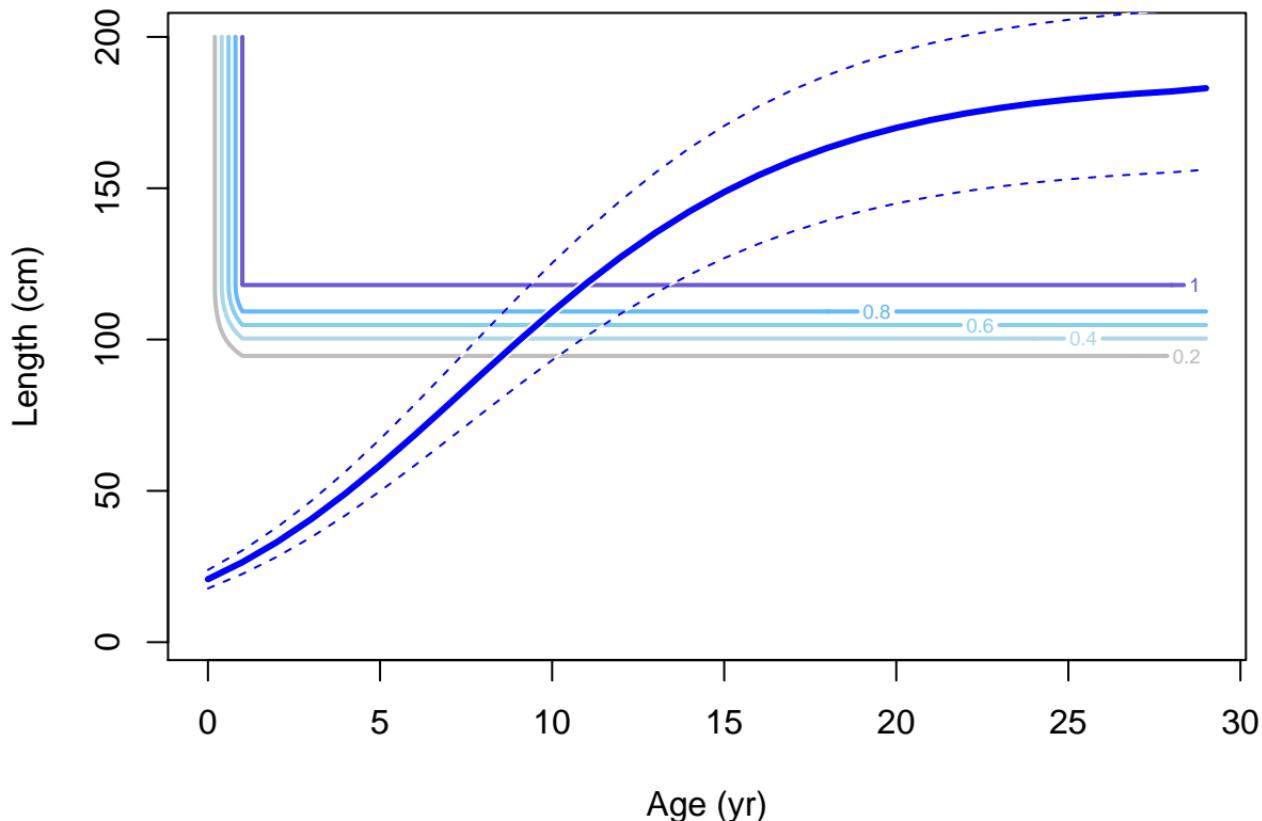
## Male ending year selectivity and growth for F36-LL\_C\_Q14w



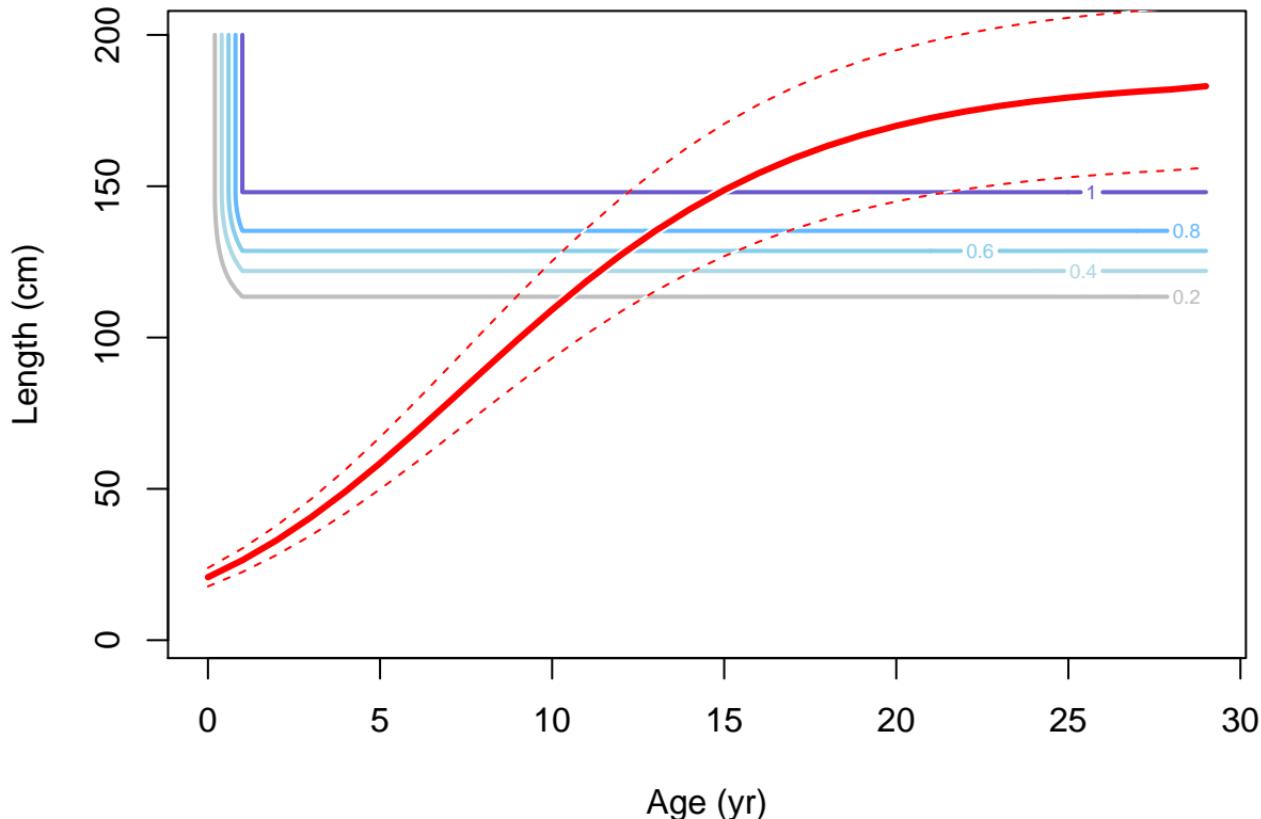
## Female ending year selectivity and growth for F37-LL\_E\_Q14w



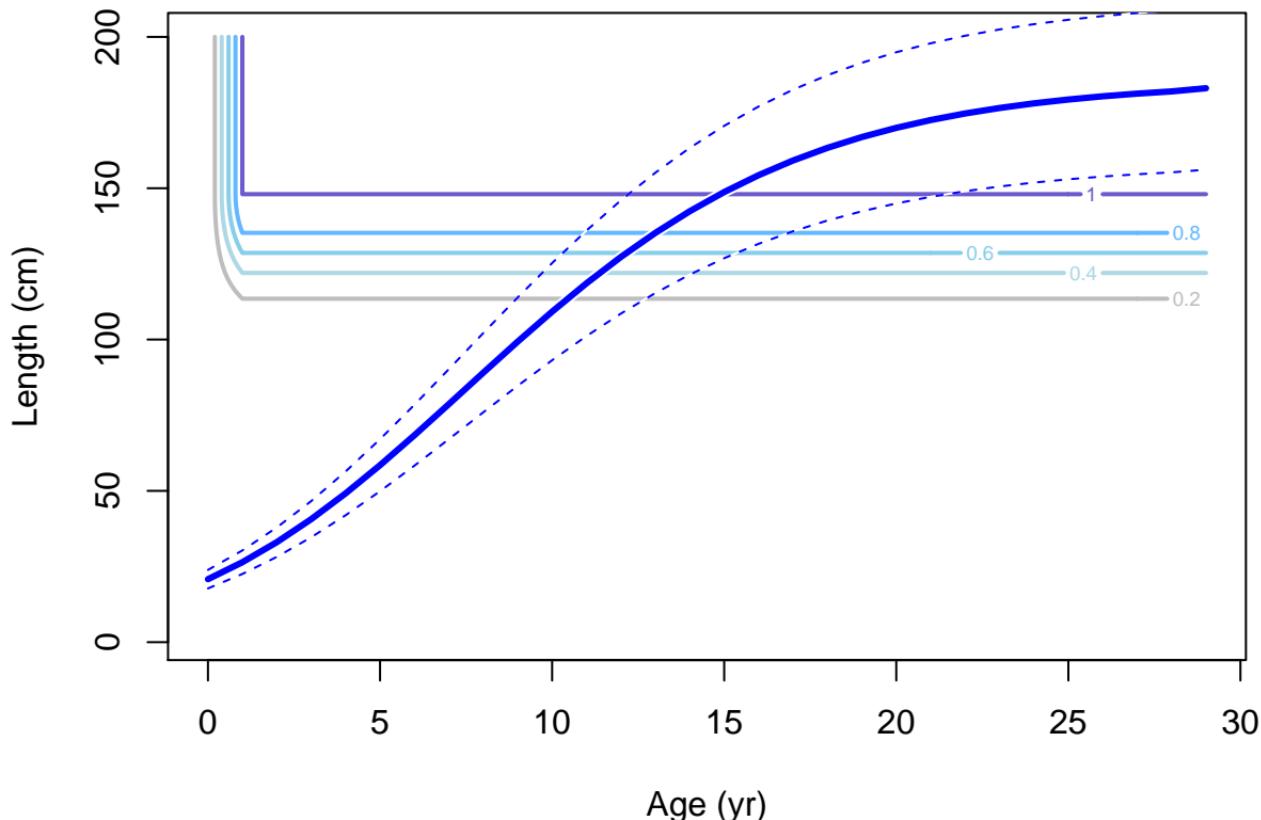
## Male ending year selectivity and growth for F37-LL\_E\_Q14w



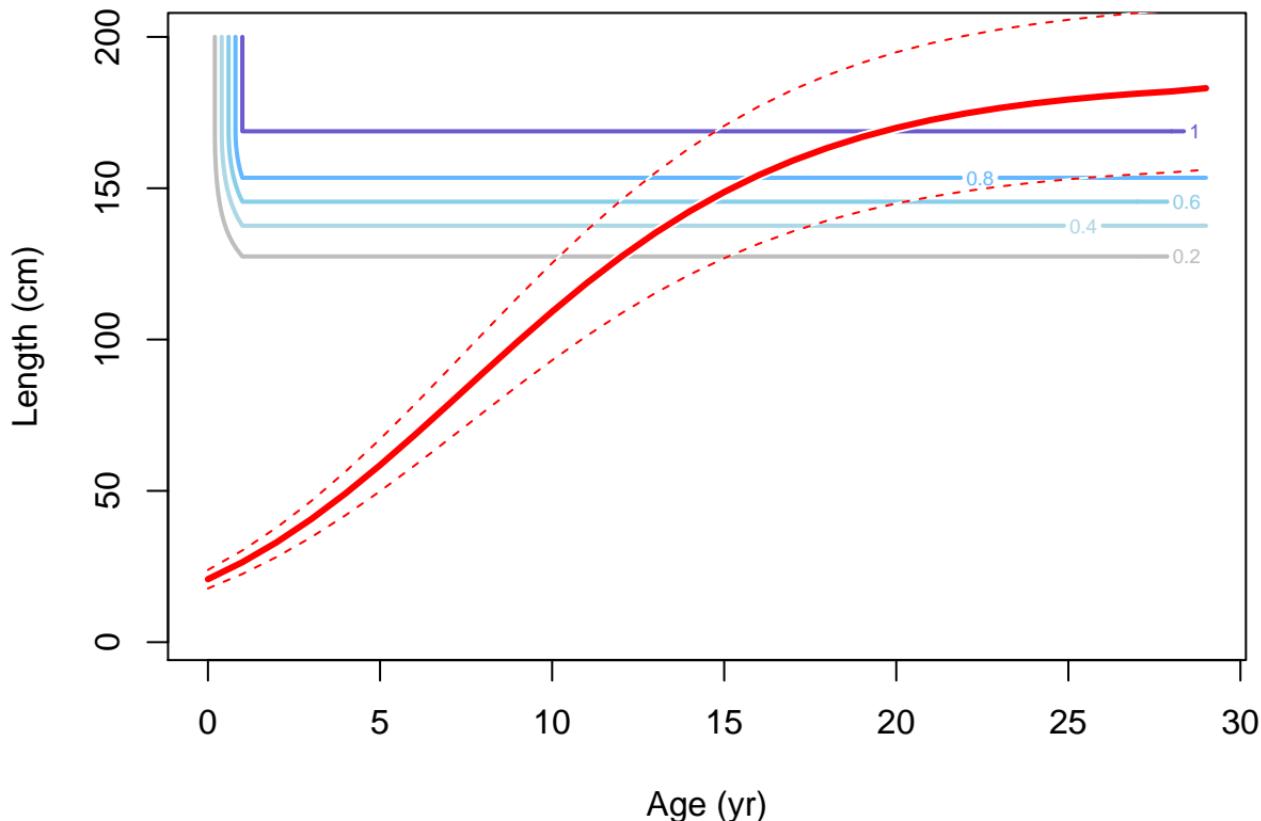
## Female ending year selectivity and growth for F38-LL\_W\_Q23w



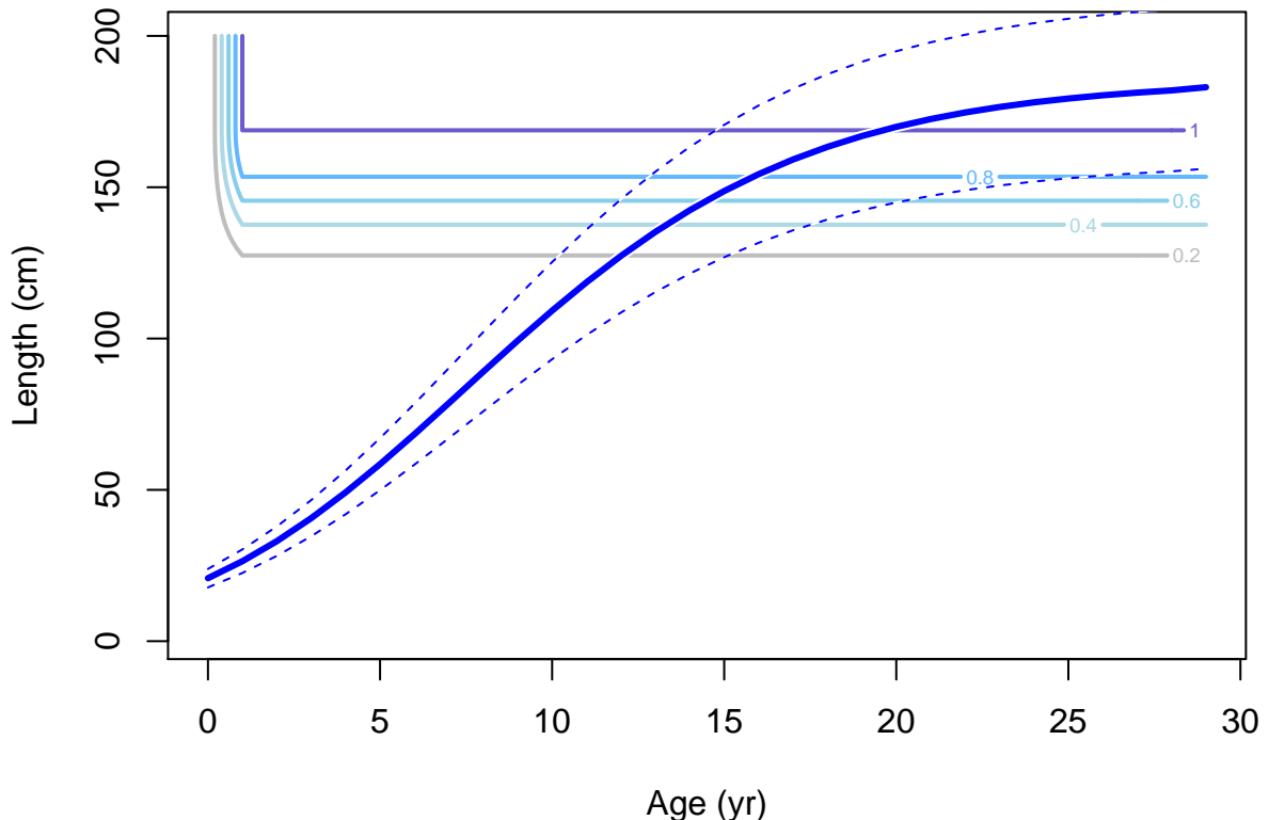
## Male ending year selectivity and growth for F38-LL\_W\_Q23w



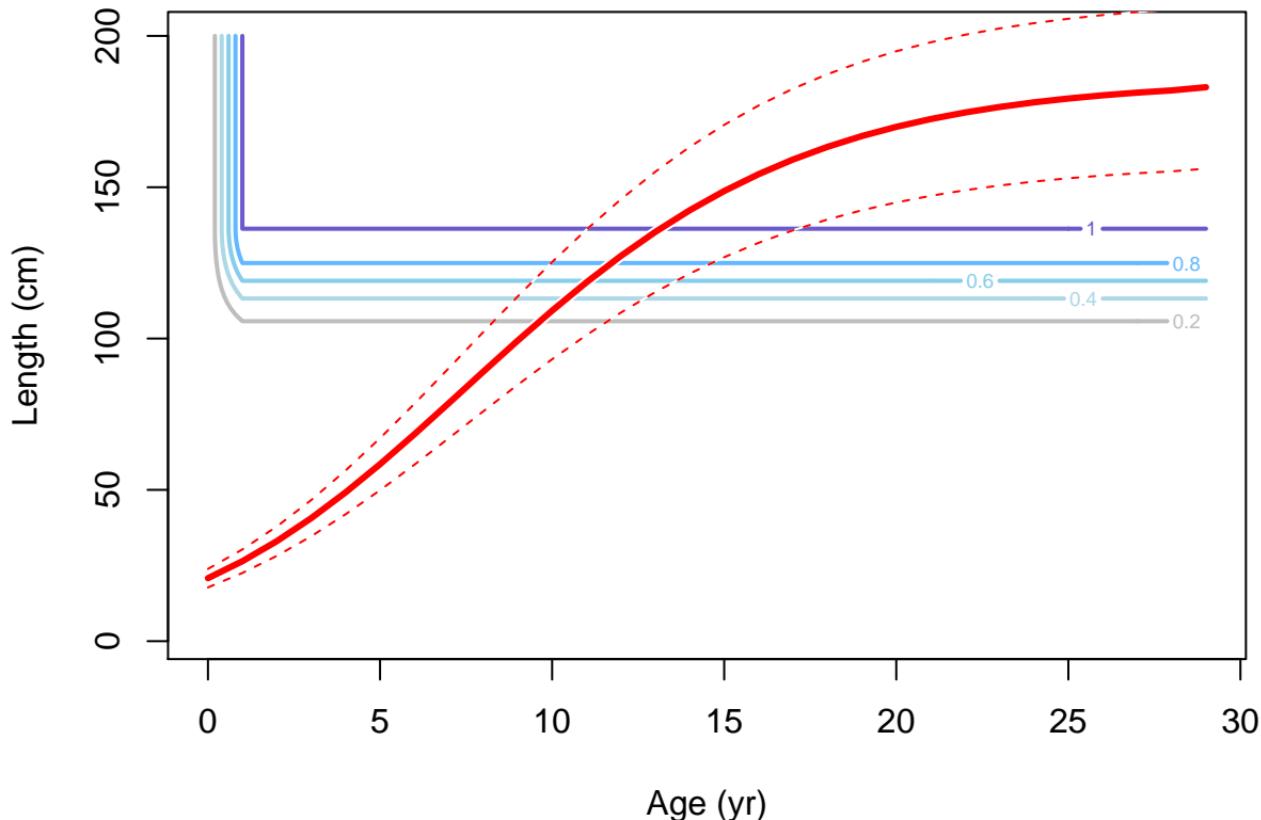
## Female ending year selectivity and growth for F39-LL\_C\_Q23w



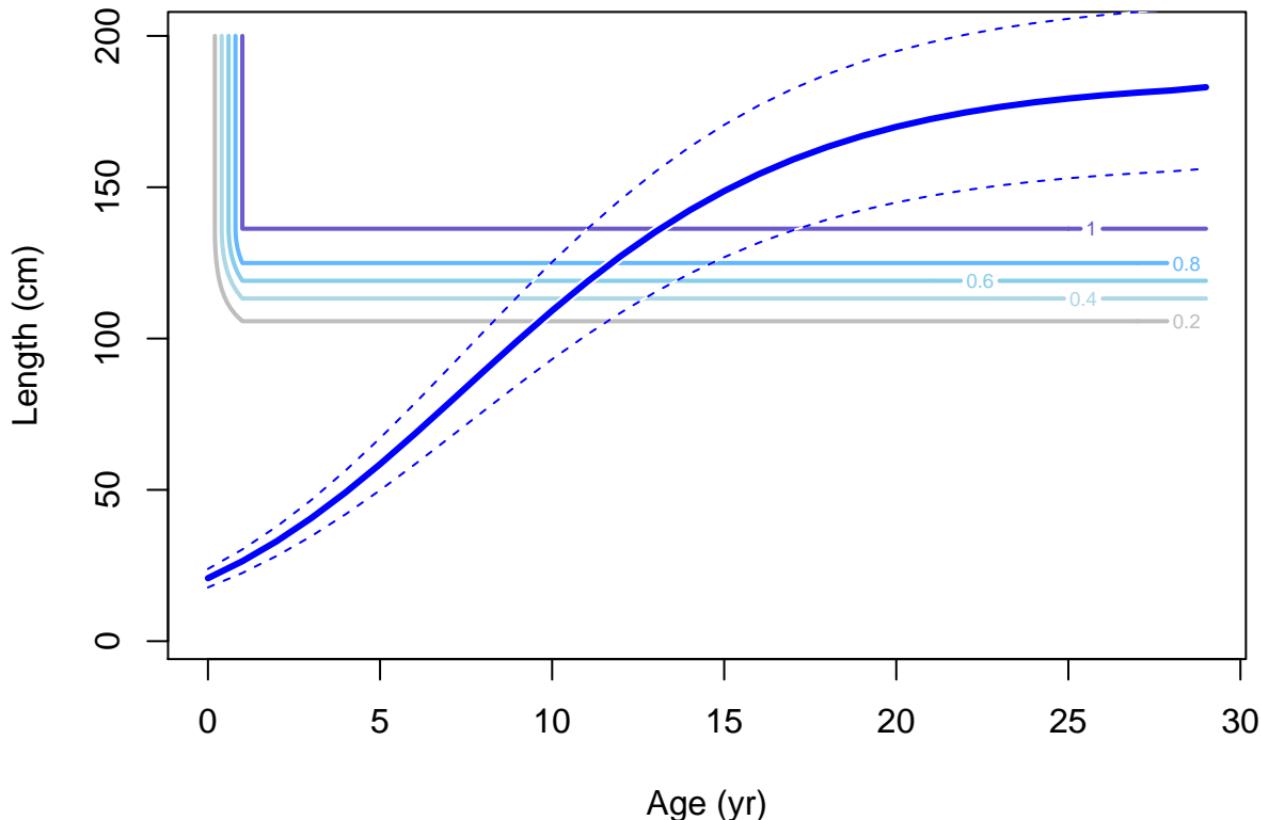
## Male ending year selectivity and growth for F39-LL\_C\_Q23w



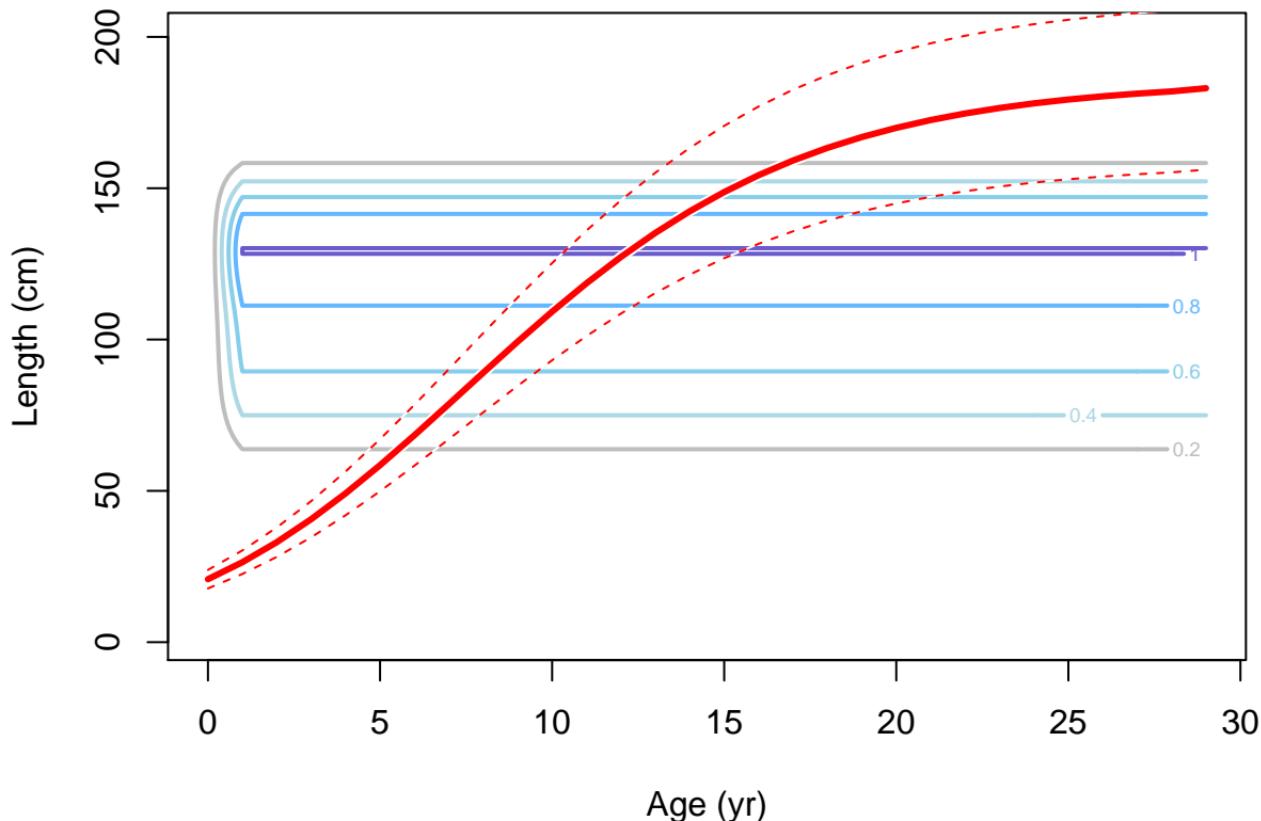
## Female ending year selectivity and growth for F40-LL\_E\_Q23w



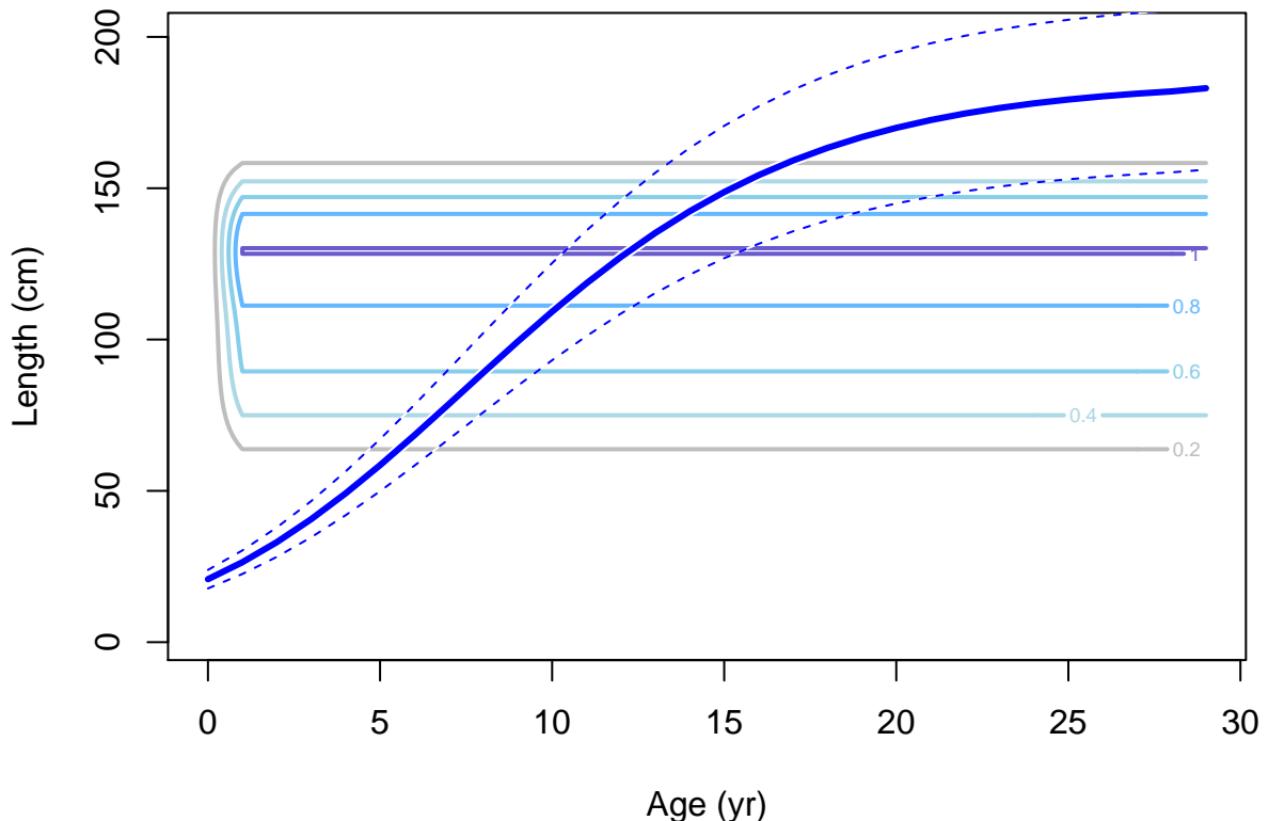
## Male ending year selectivity and growth for F40-LL\_E\_Q23w



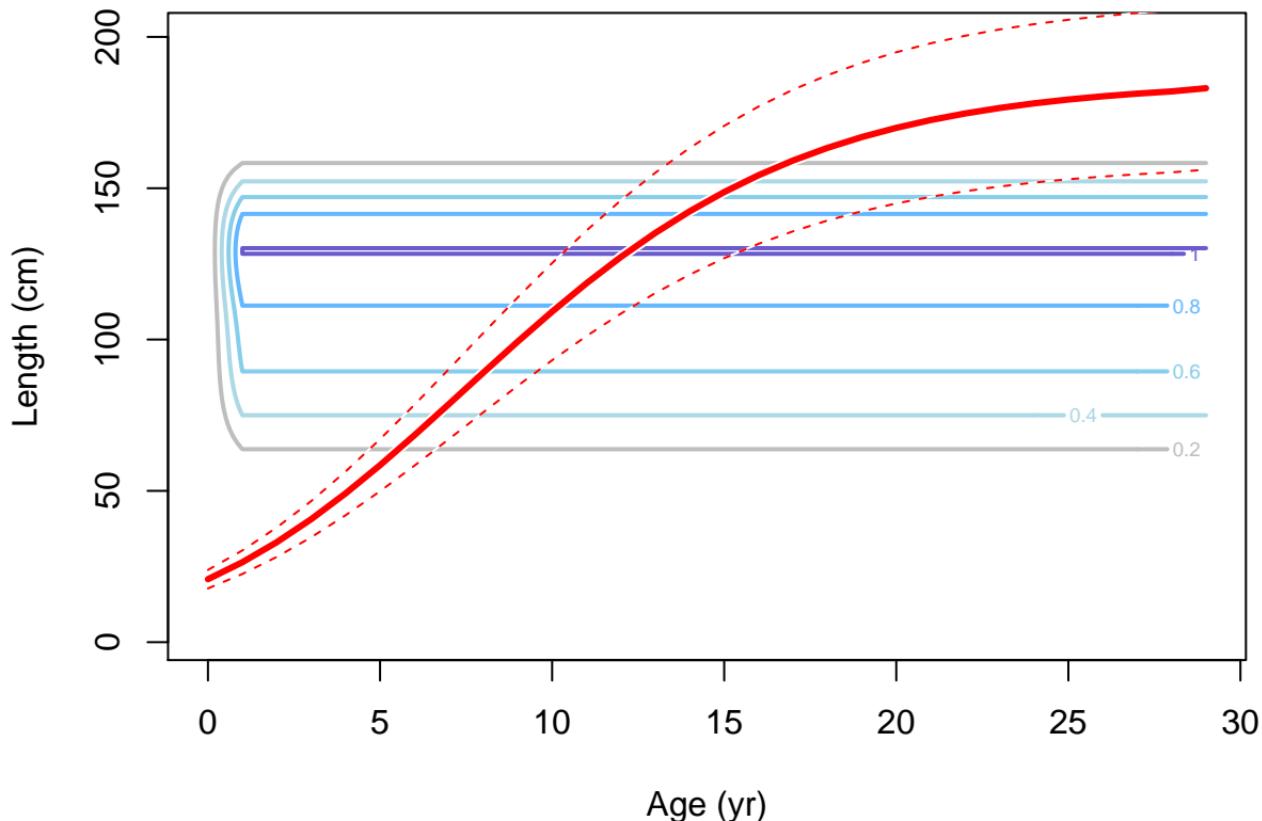
## Female ending year selectivity and growth for S1-PS\_DEL\_VAST



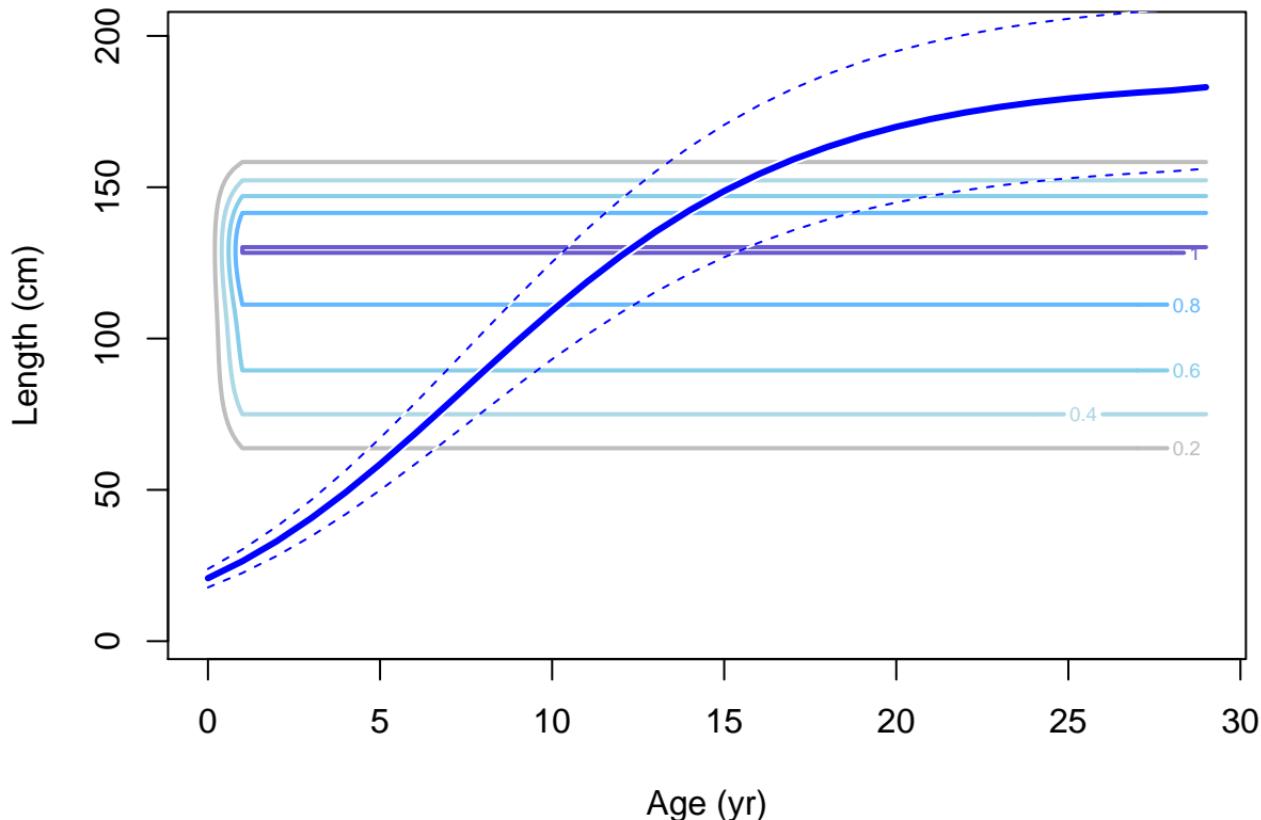
## Male ending year selectivity and growth for S1-PS\_DEL\_VAST



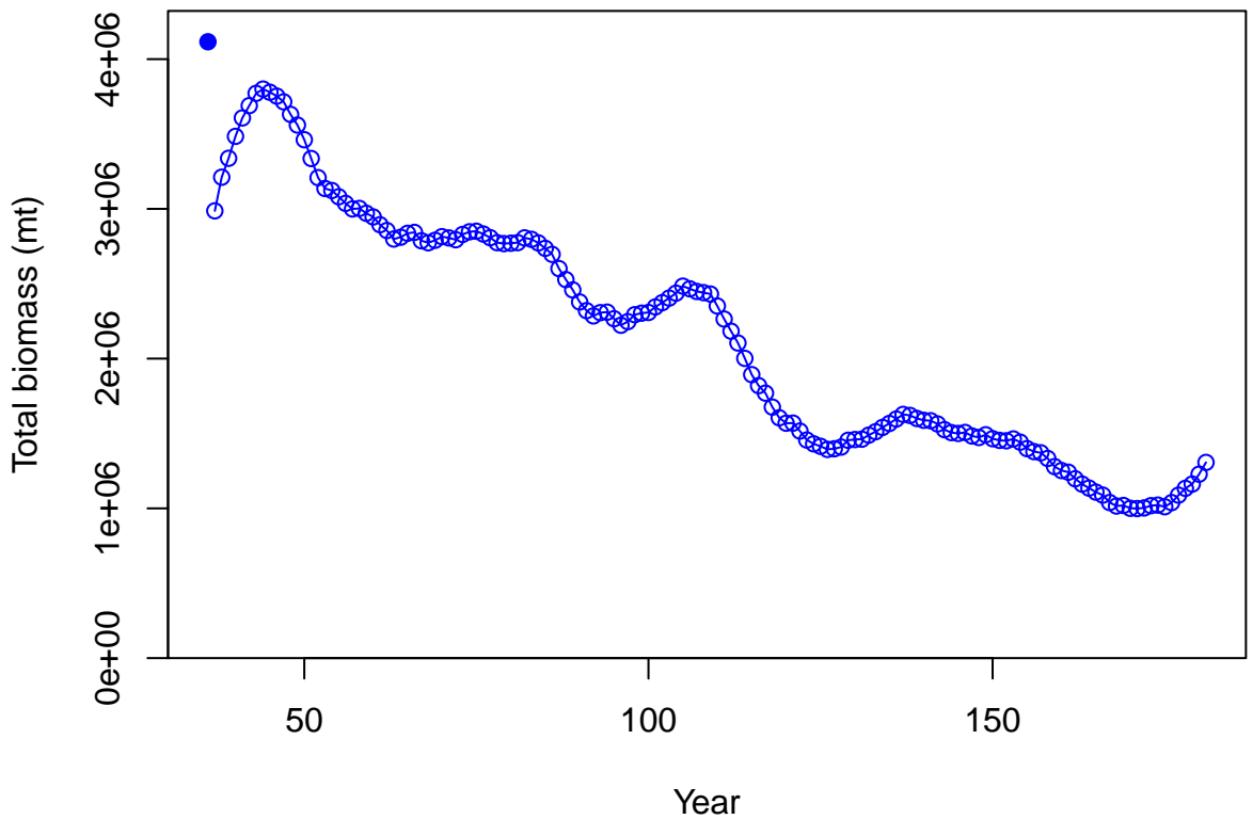
## Female ending year selectivity and growth for S4-PS\_middle\_VAST



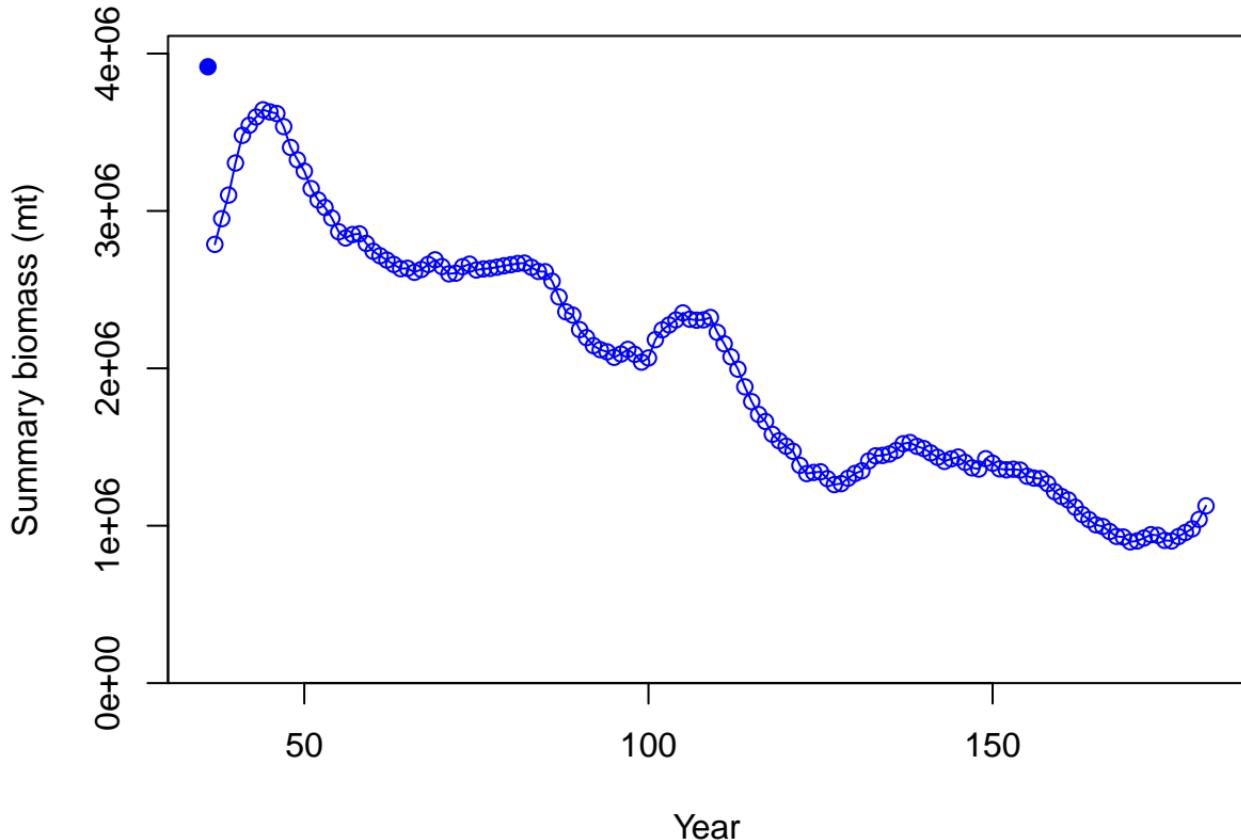
## Male ending year selectivity and growth for S4-PS\_middle\_VAST



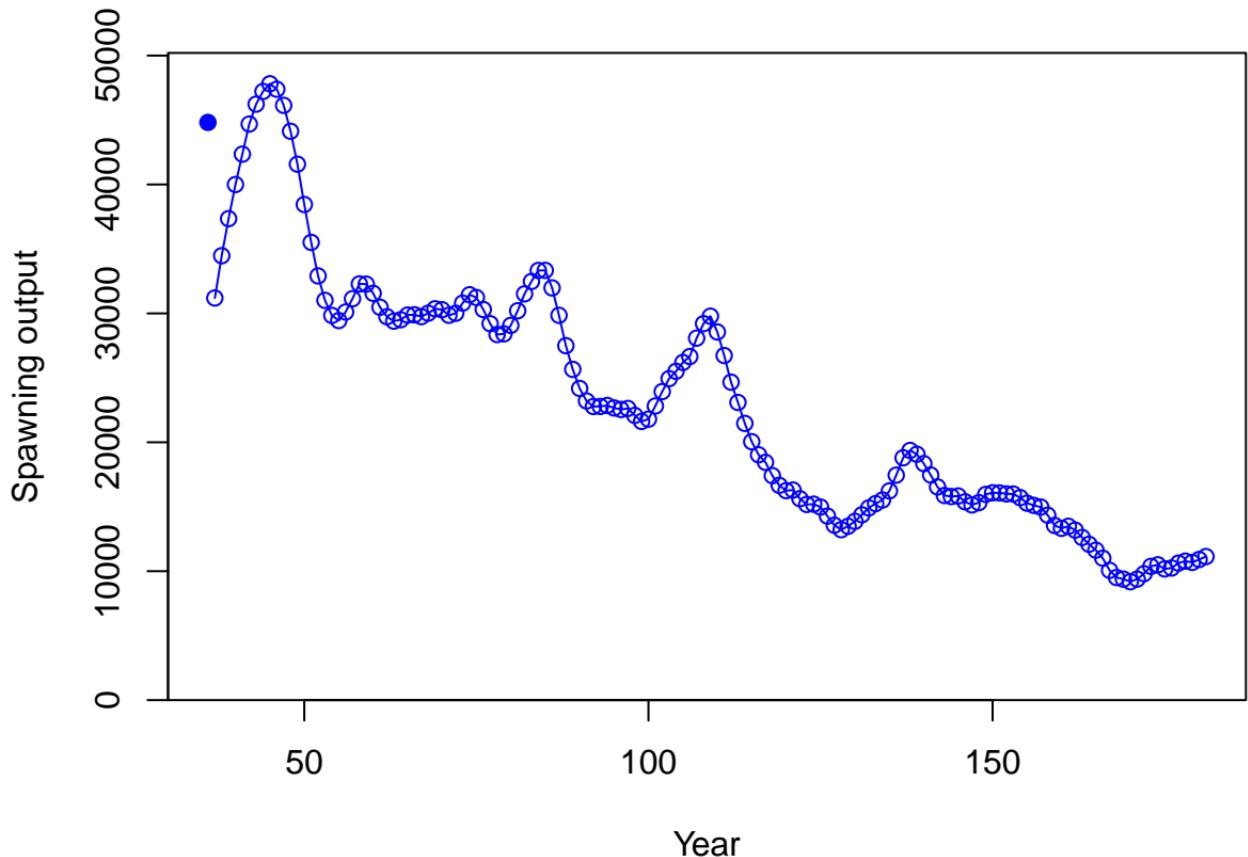
### Total biomass (mt)



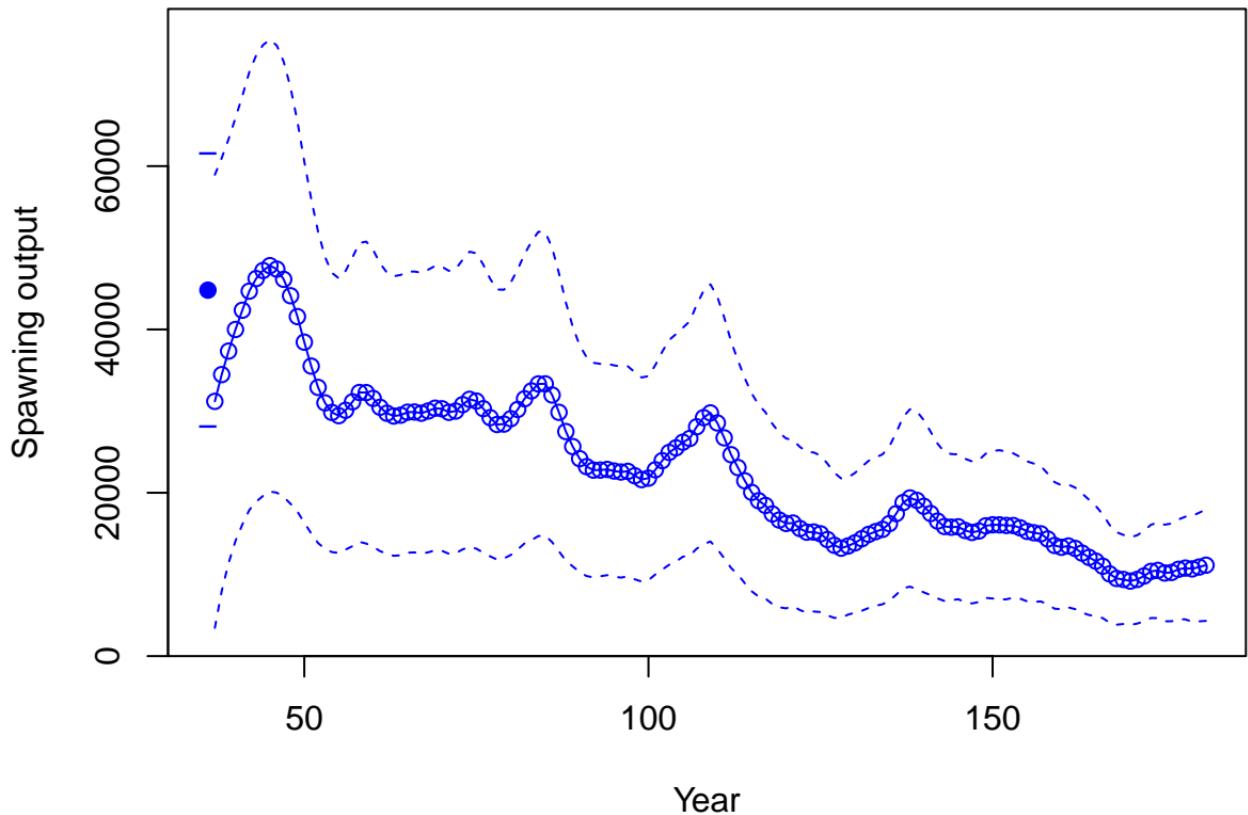
## Summary biomass (mt)



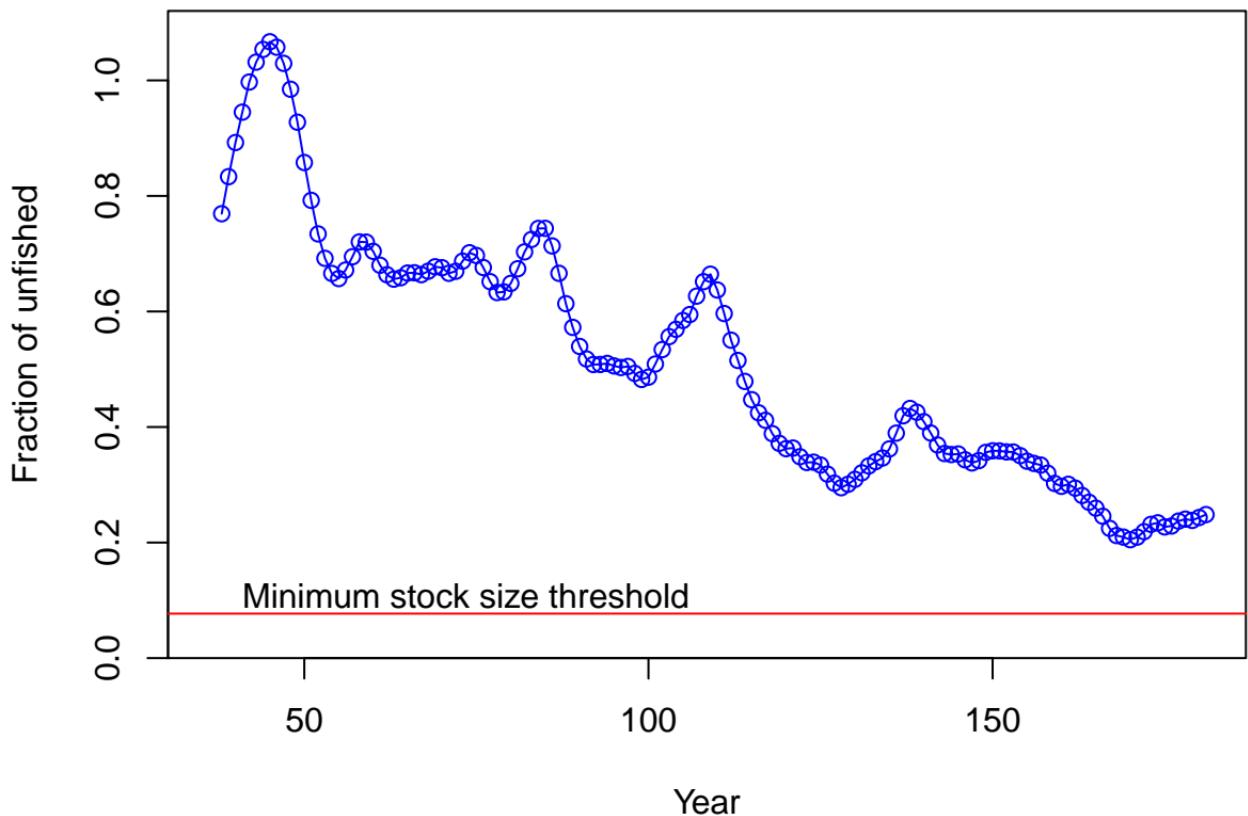
## Spawning output



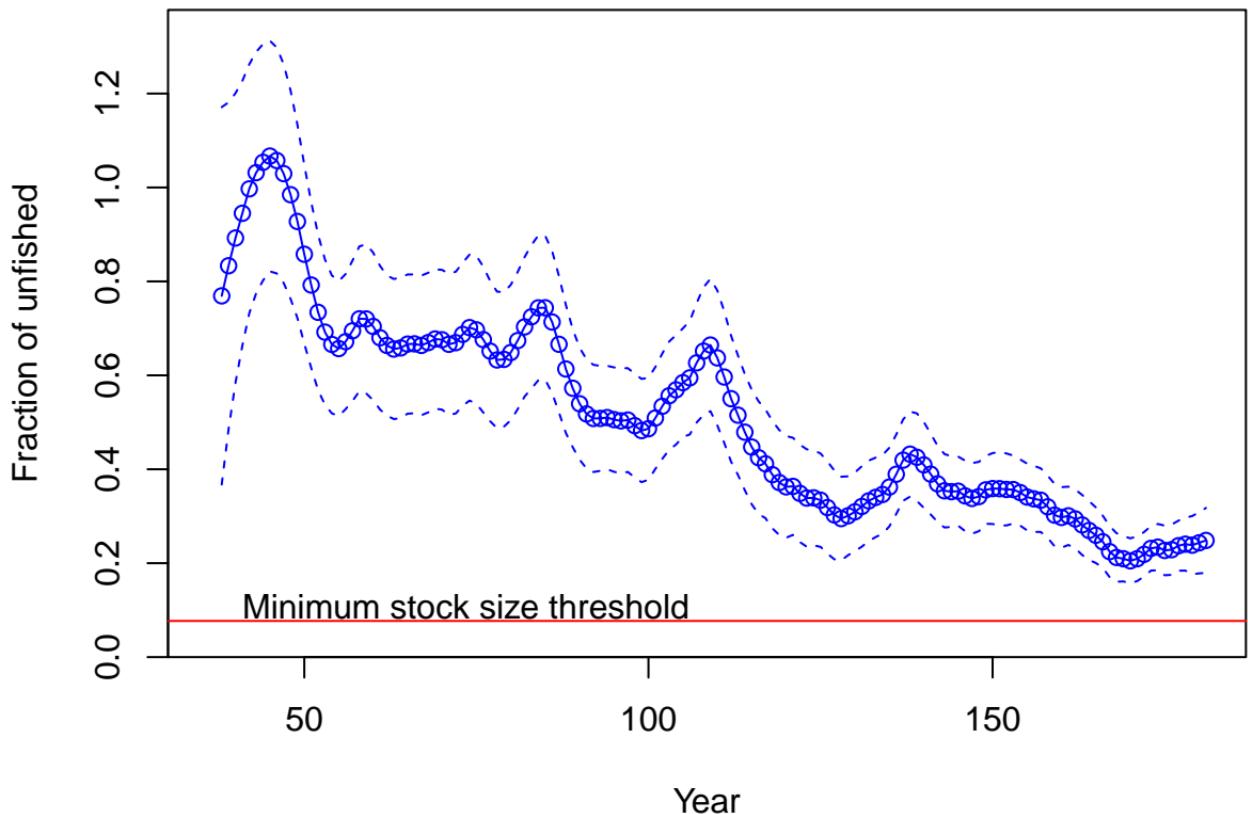
## Spawning output with ~95% asymptotic intervals



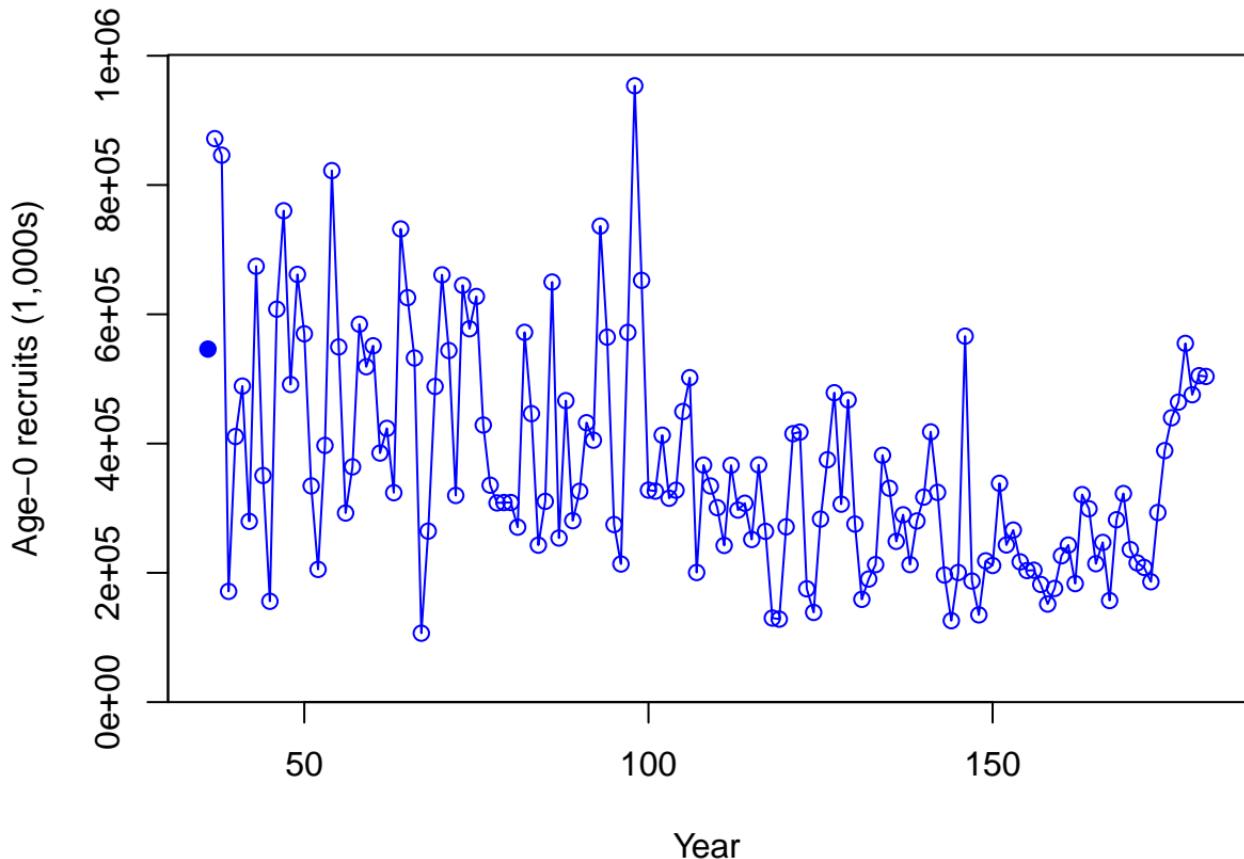
## Fraction of unfished



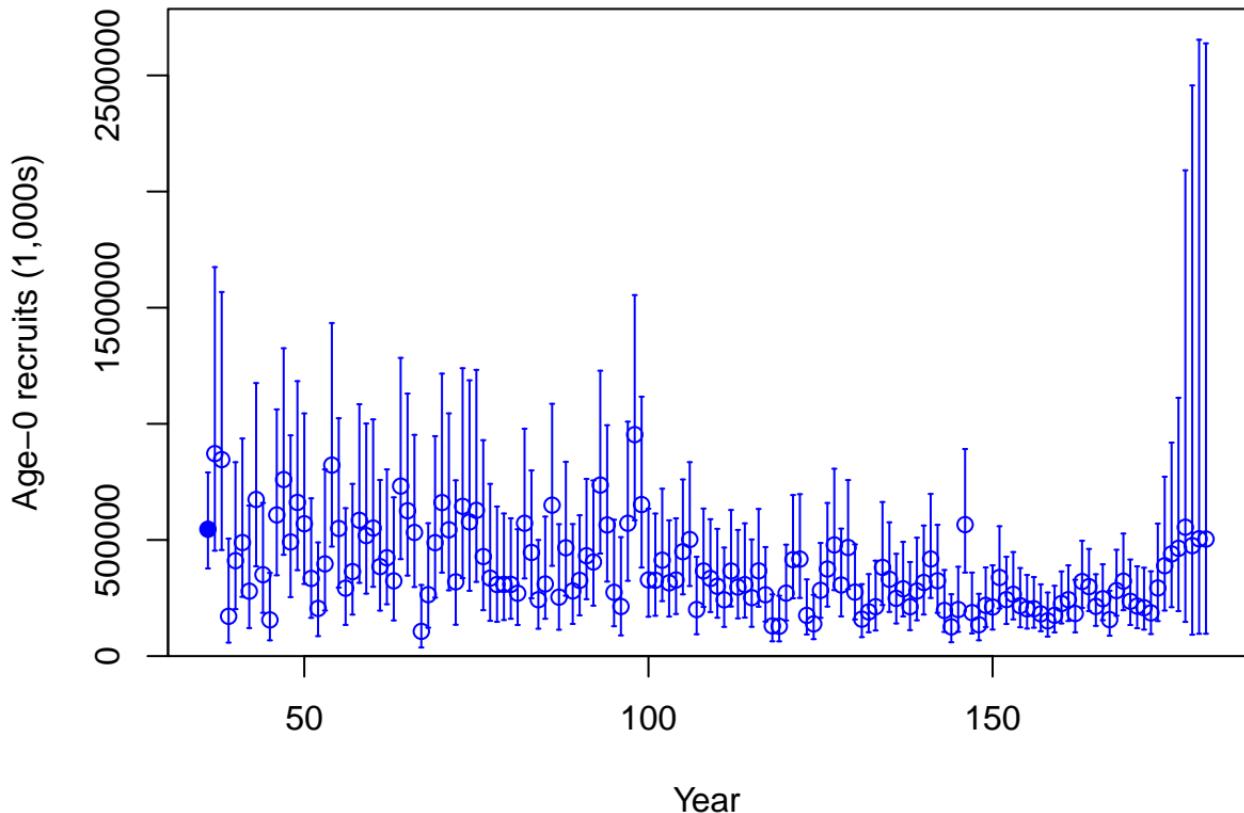
## Fraction of unfished with ~95% asymptotic intervals



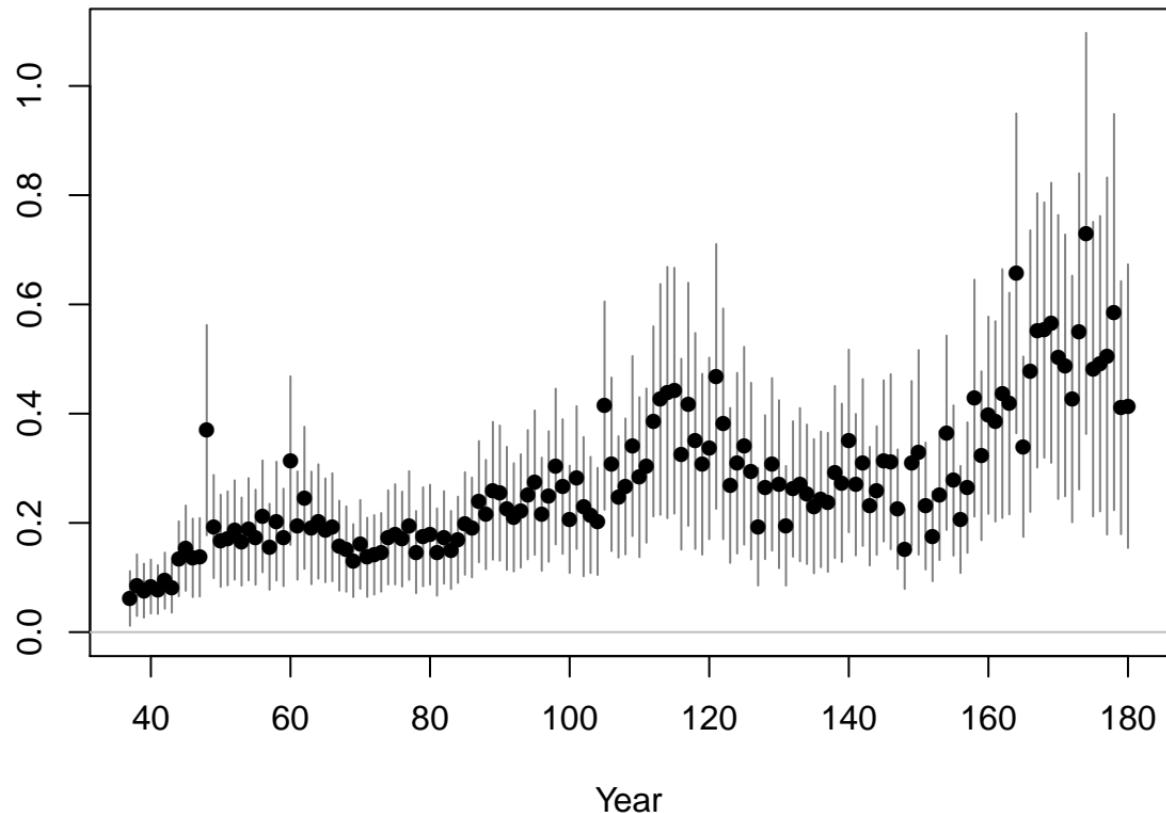
## Age-0 recruits (1,000s)

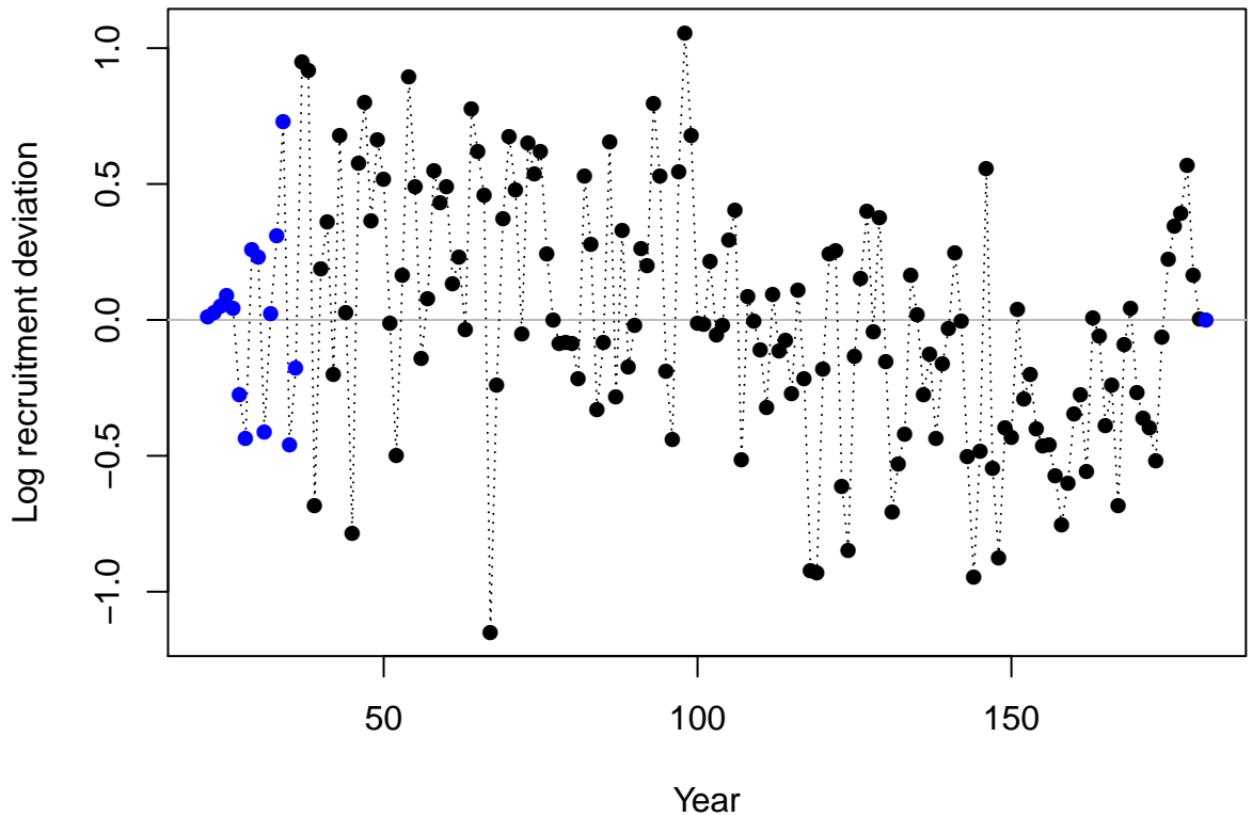


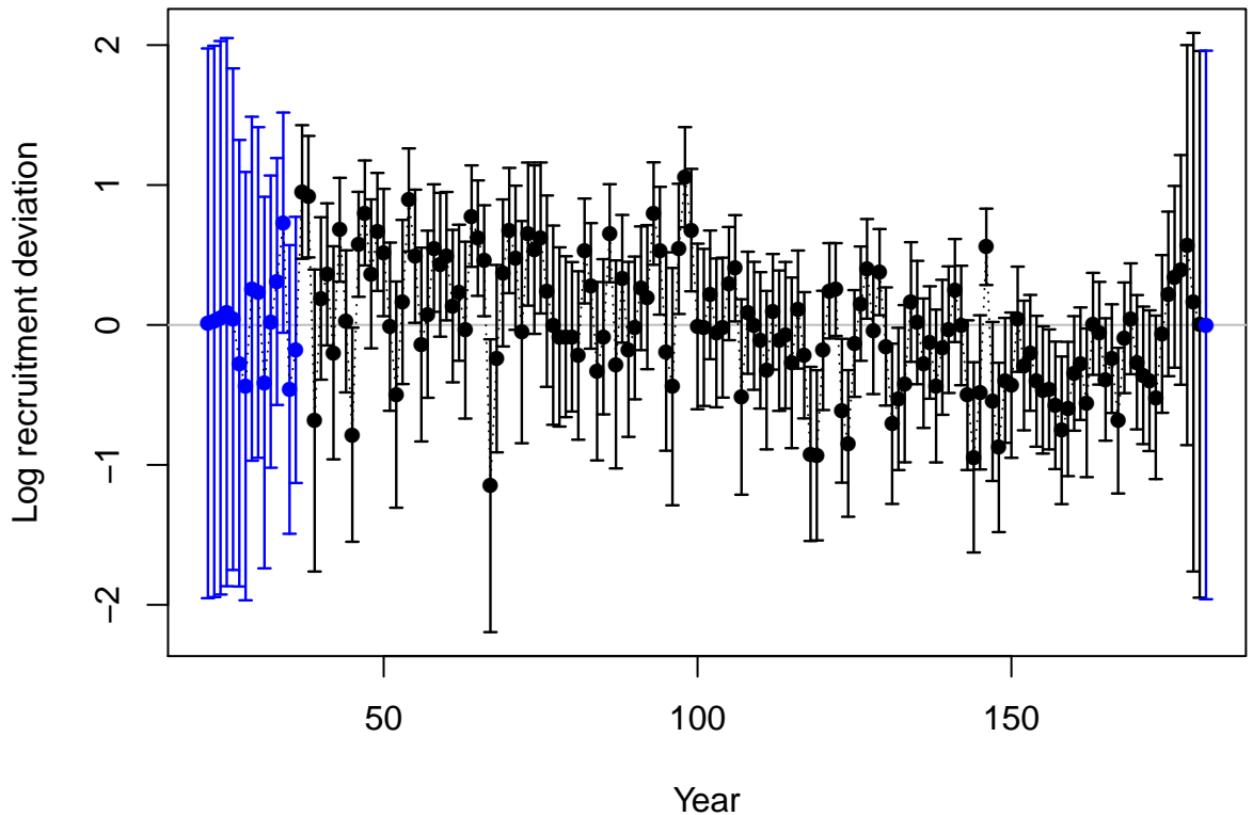
## Age-0 recruits (1,000s) with ~95% asymptotic intervals



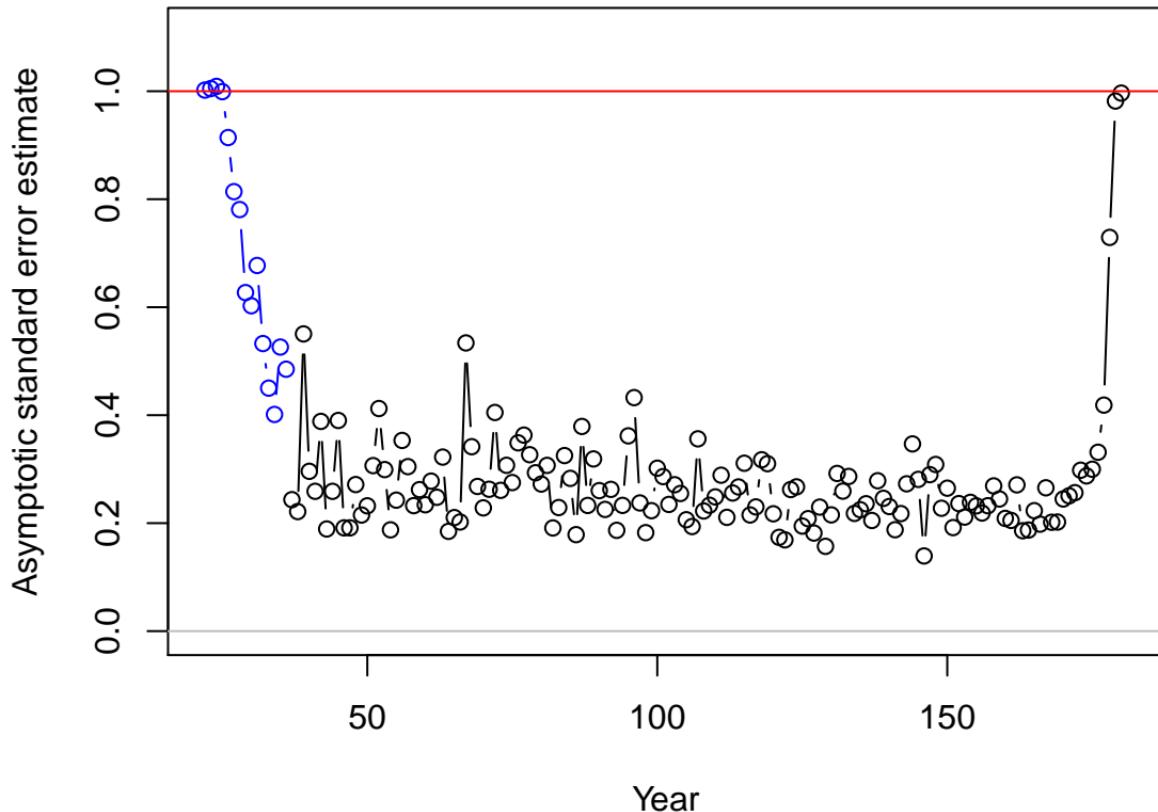
Summary Fishing Mortality

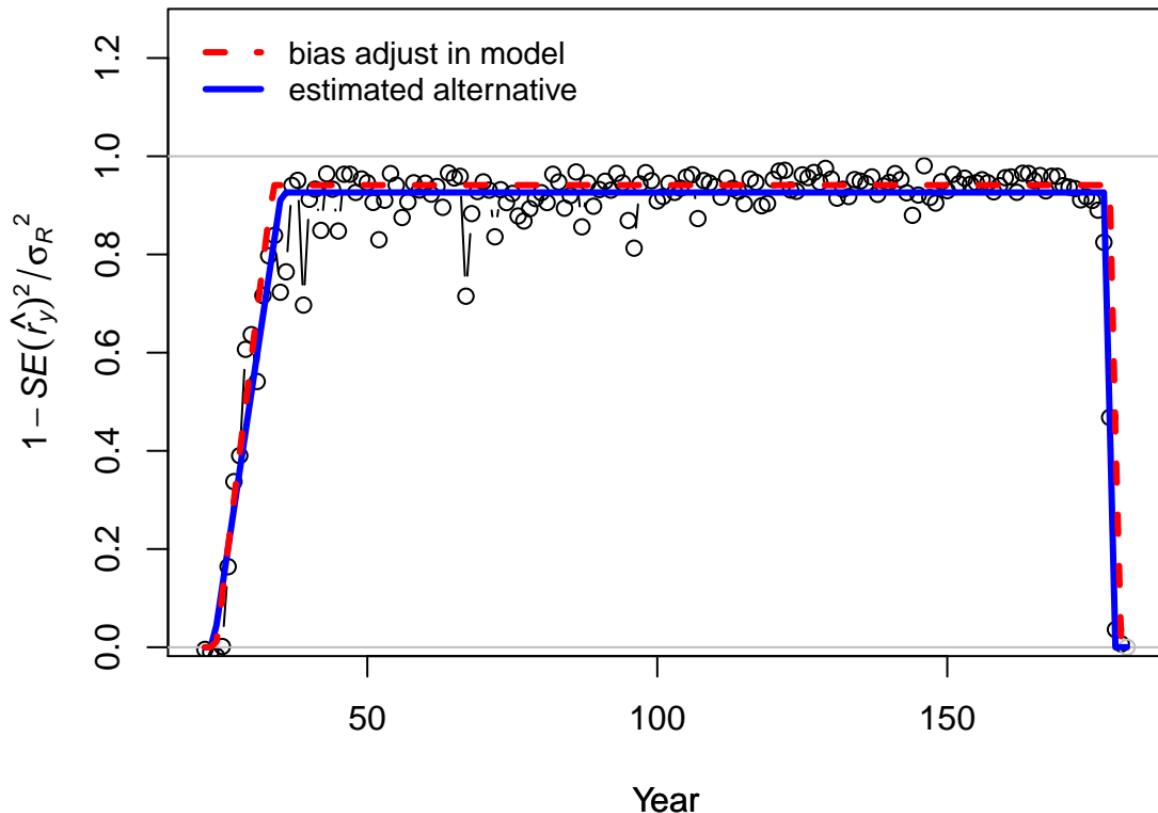


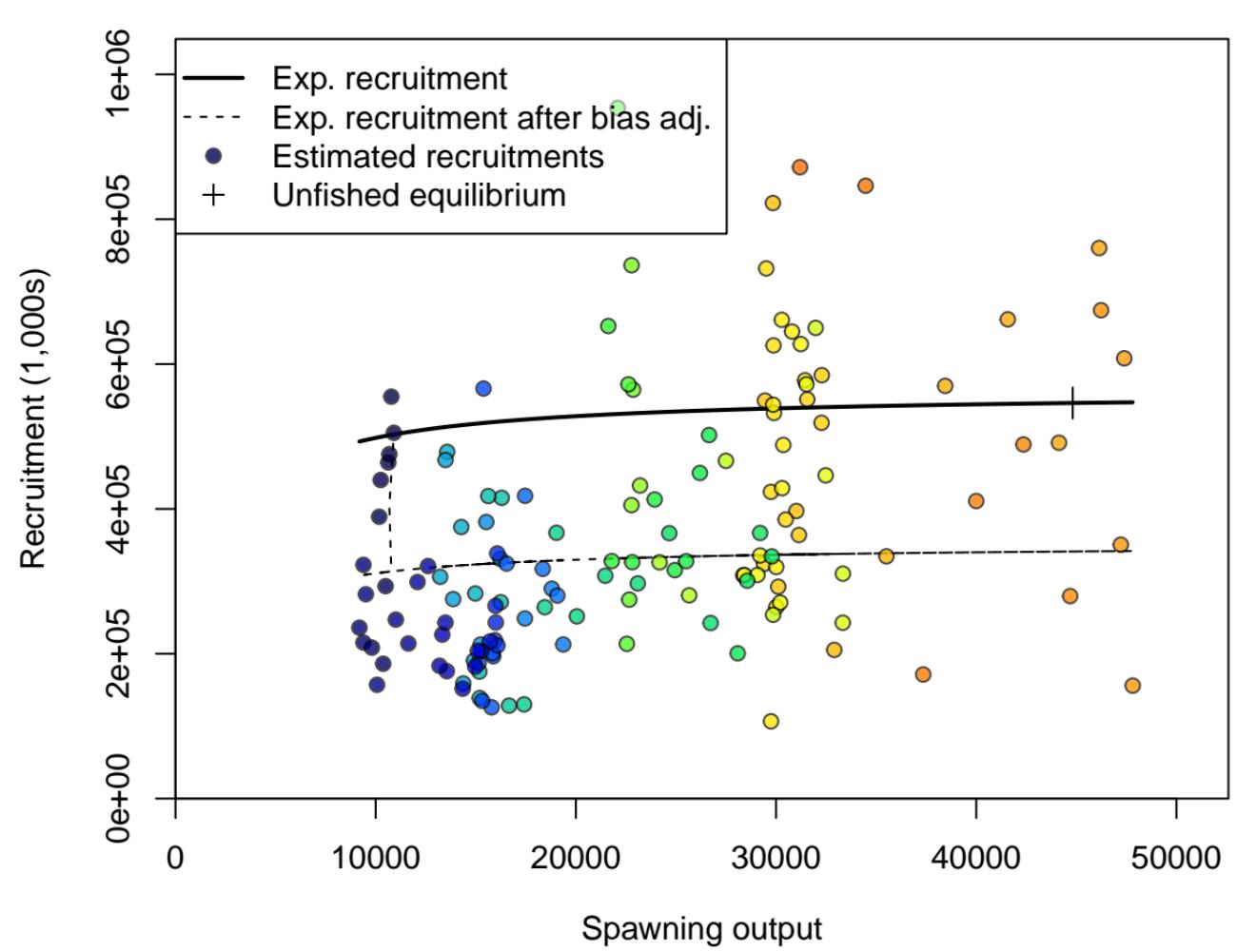


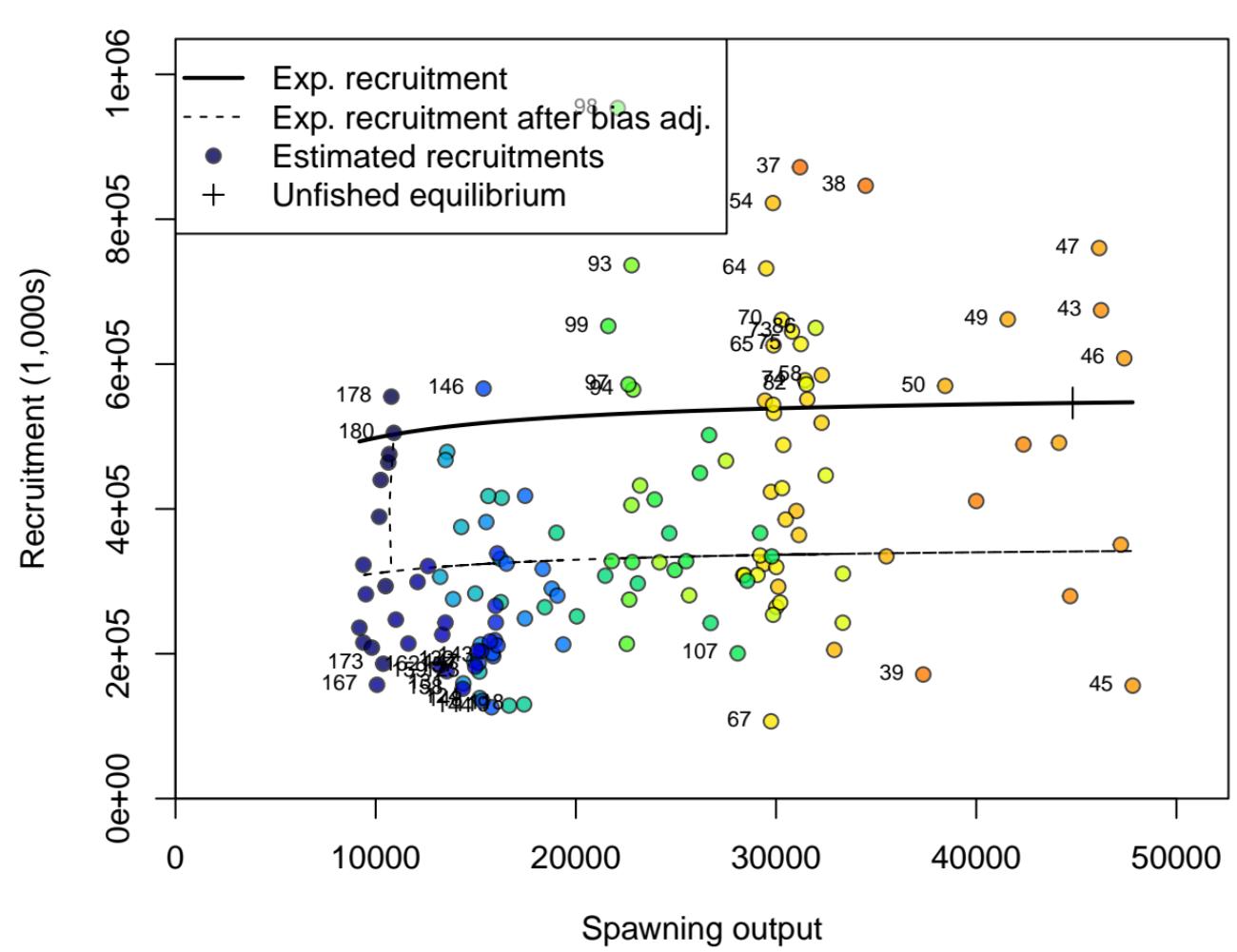


## Recruitment deviation variance

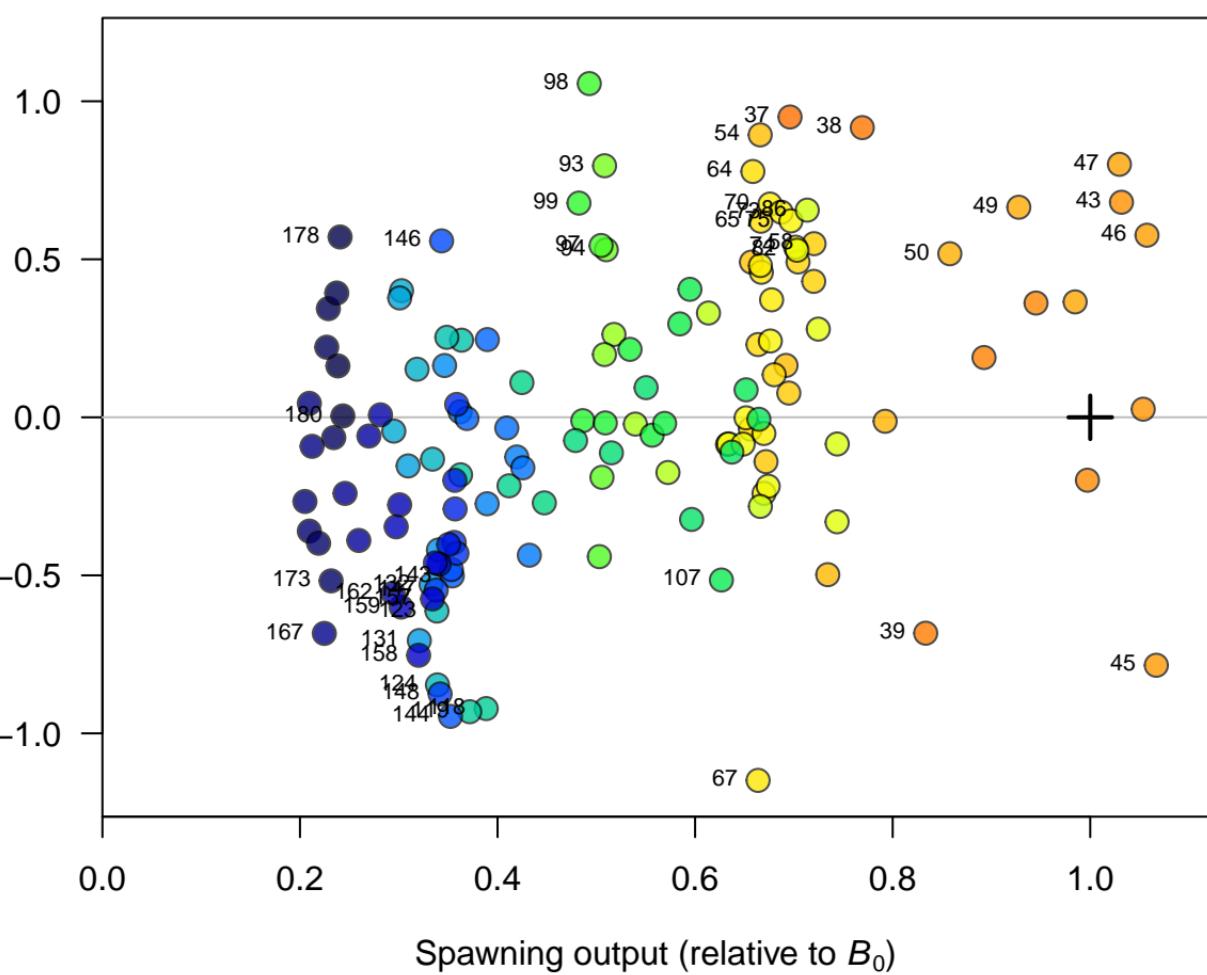


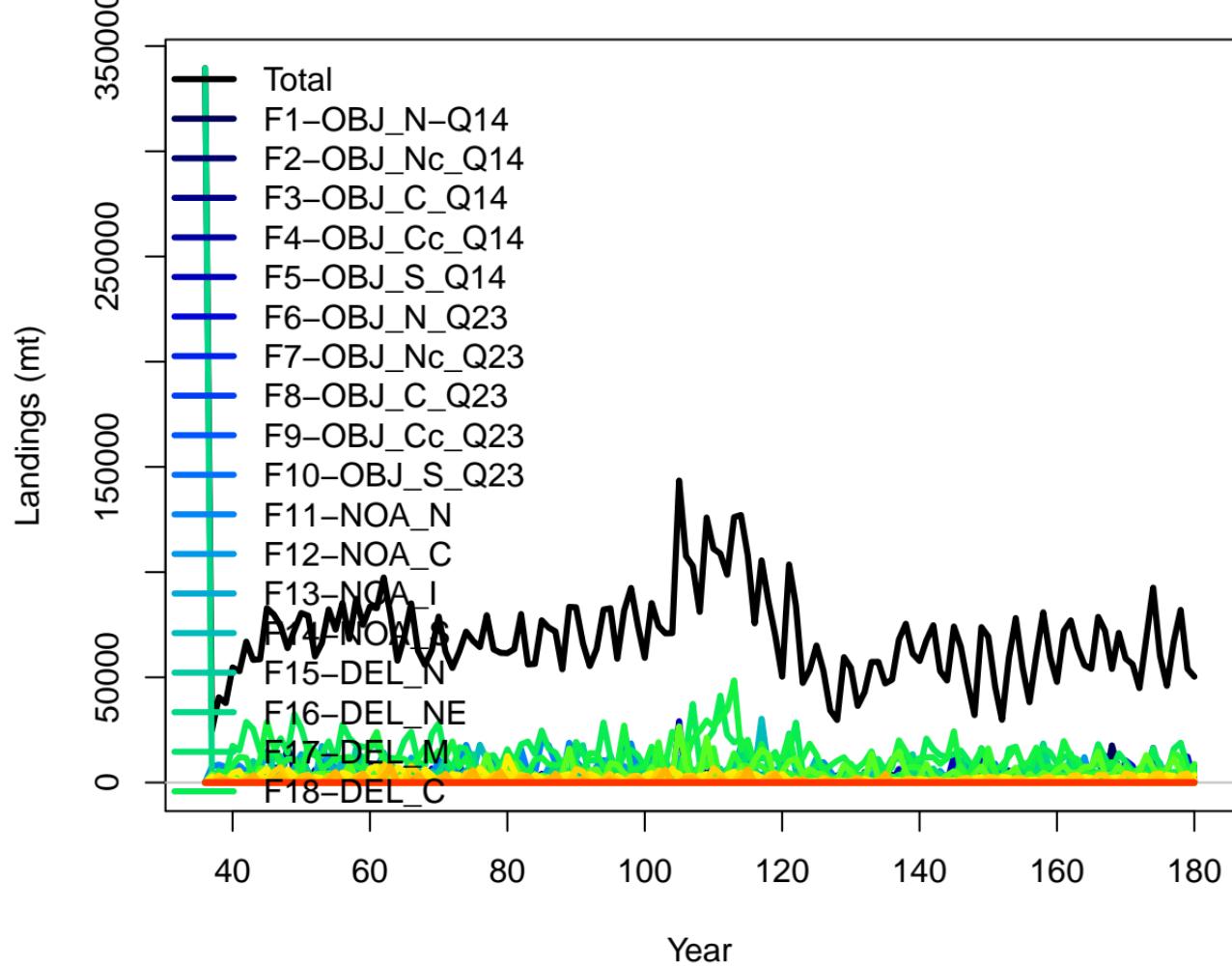


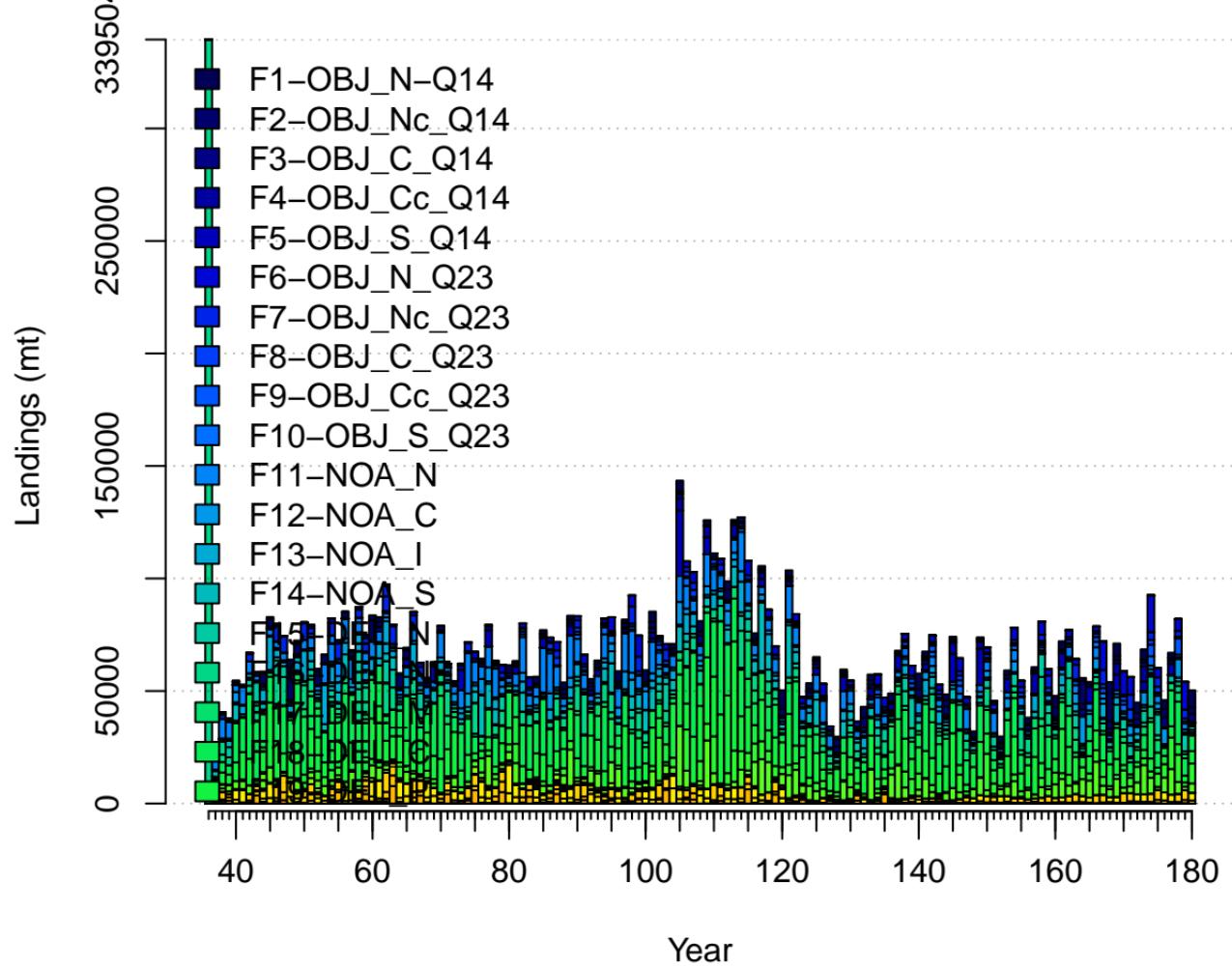




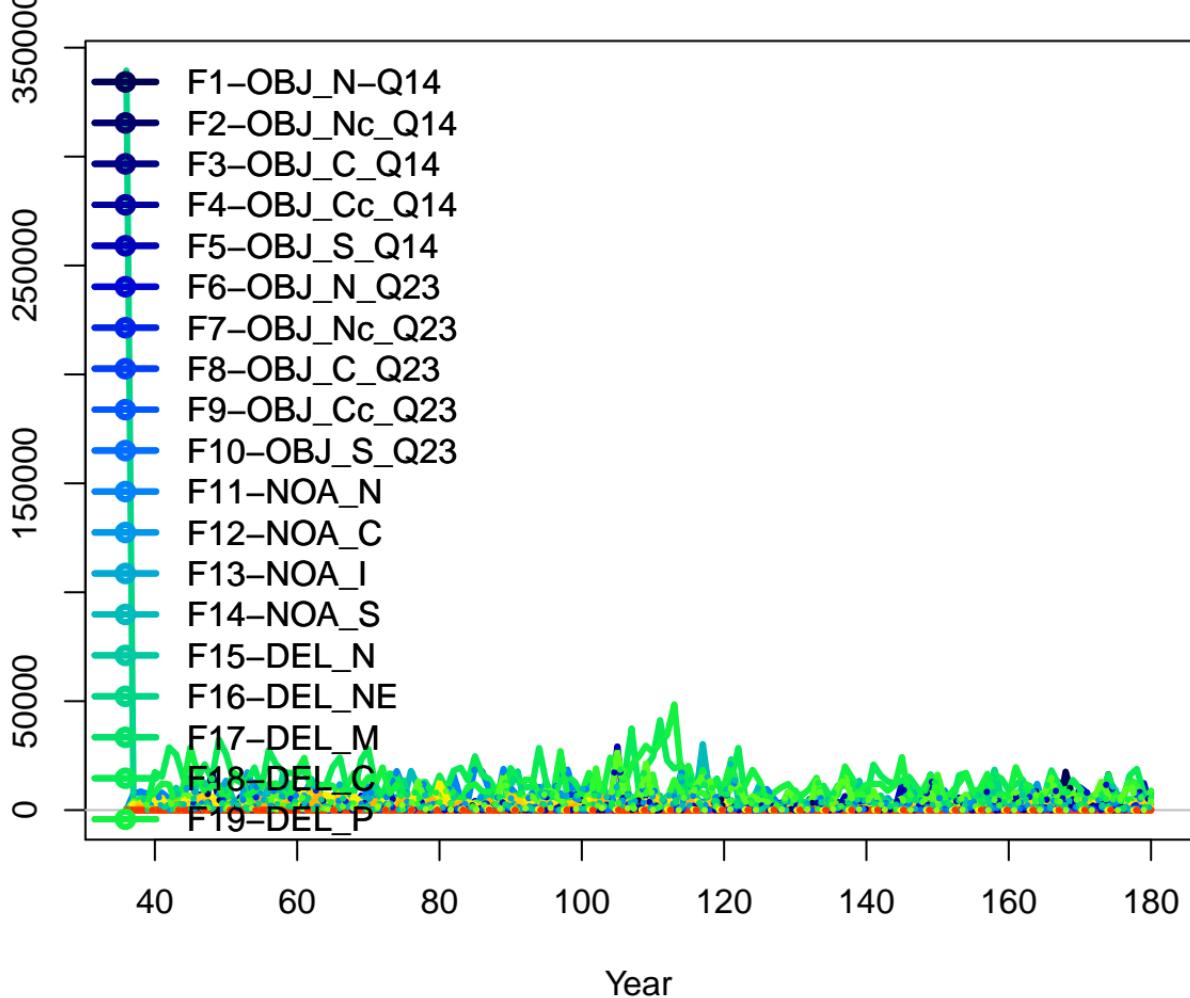
Log recruitment deviation



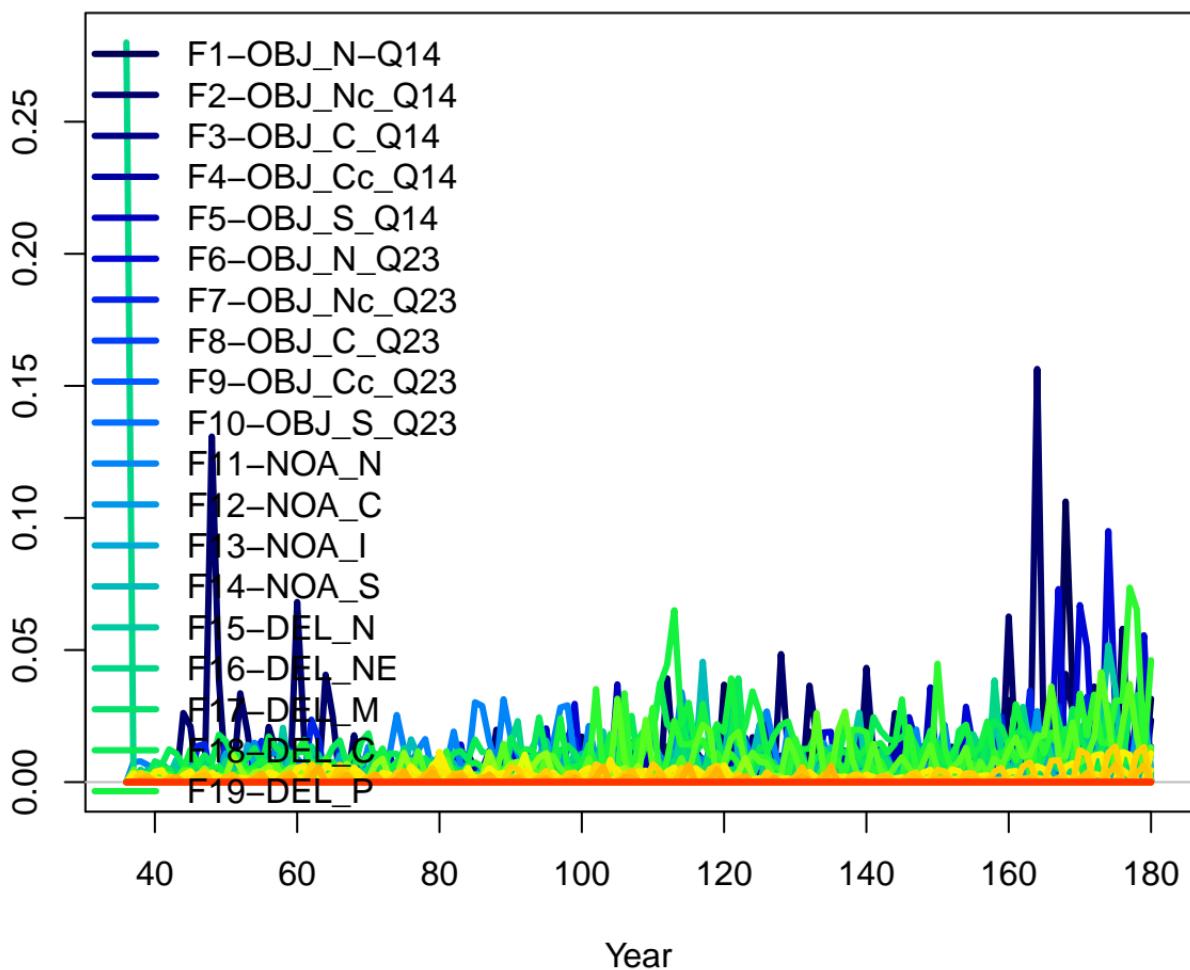


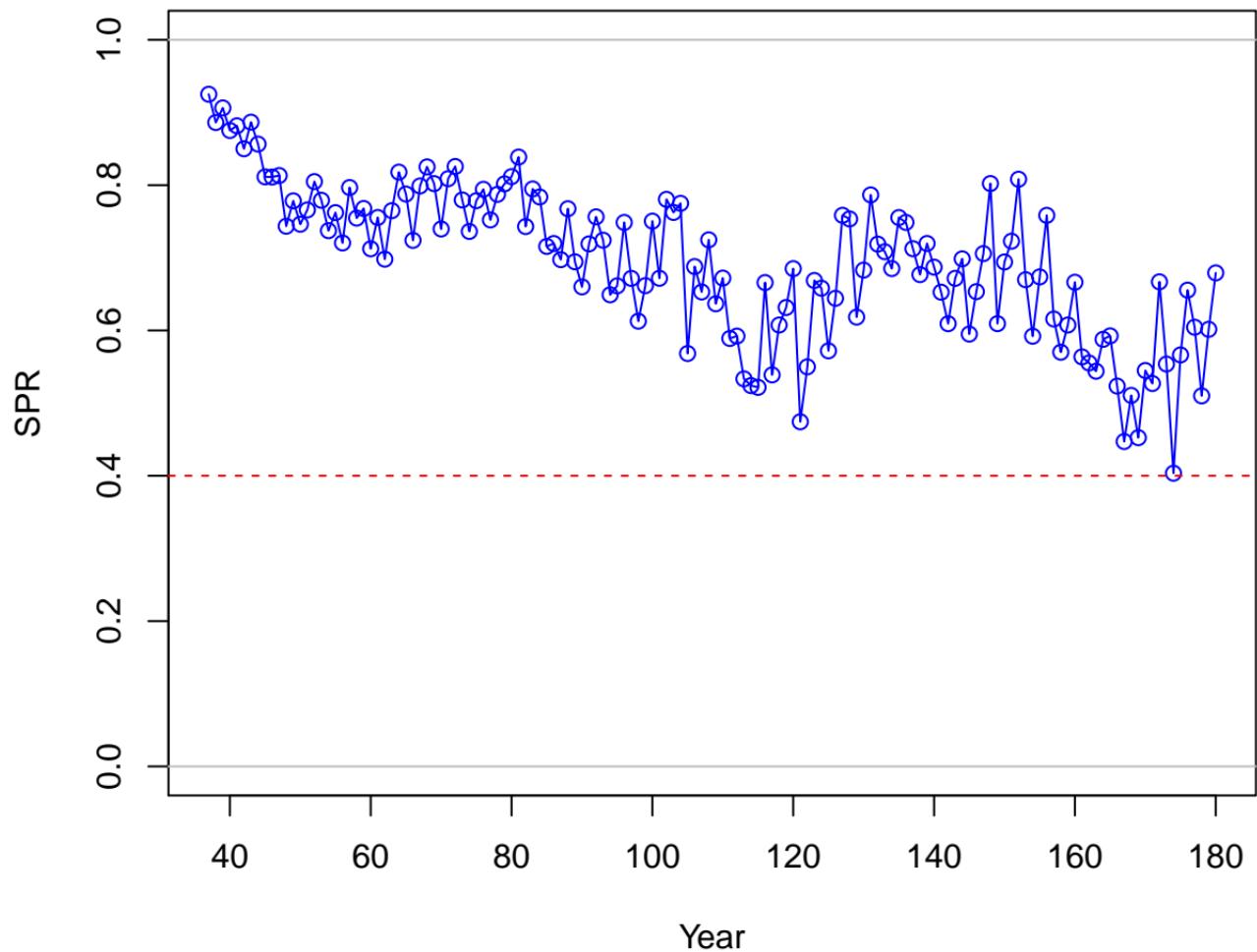


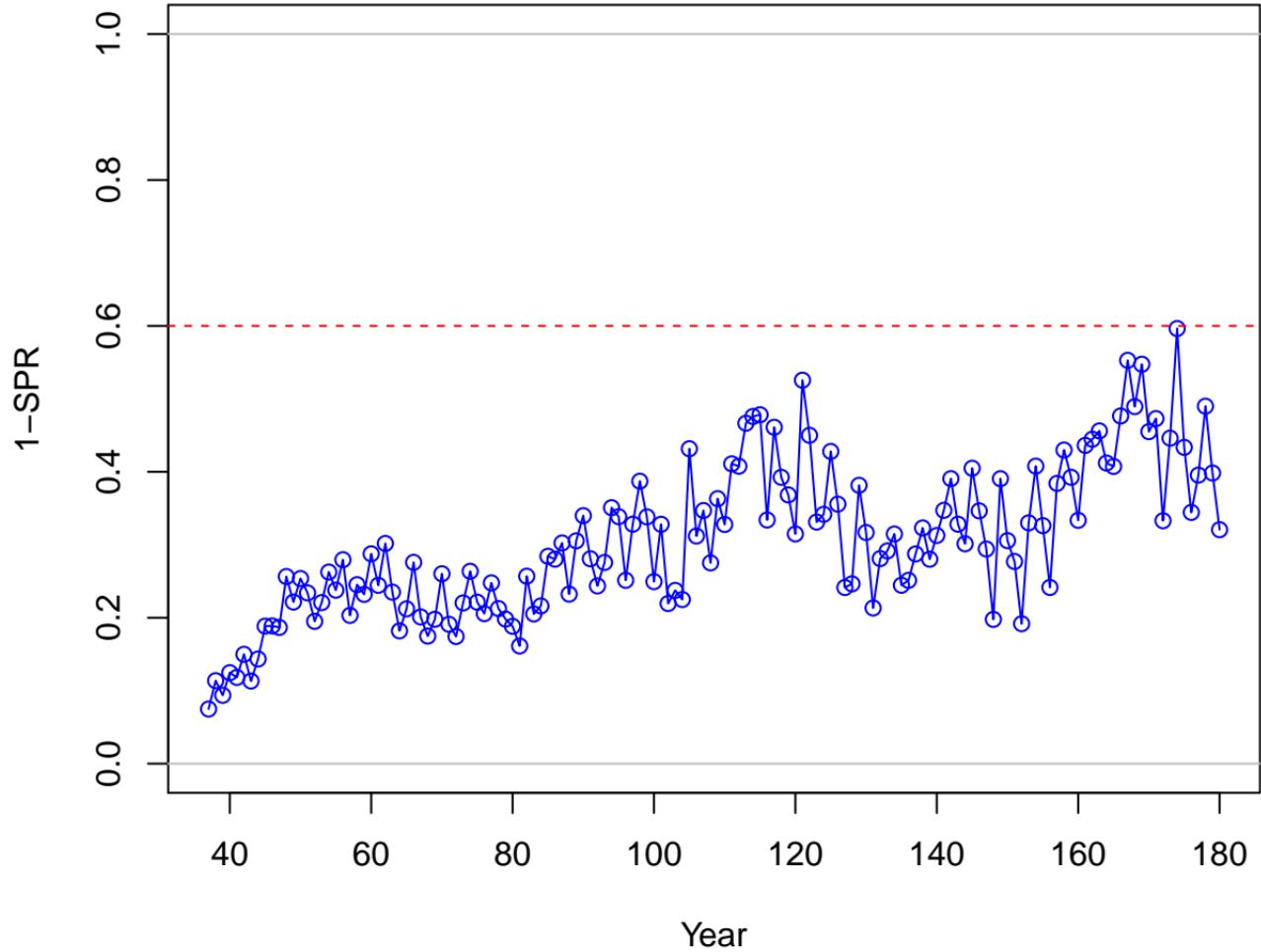
Observed and expected Landings (mt)

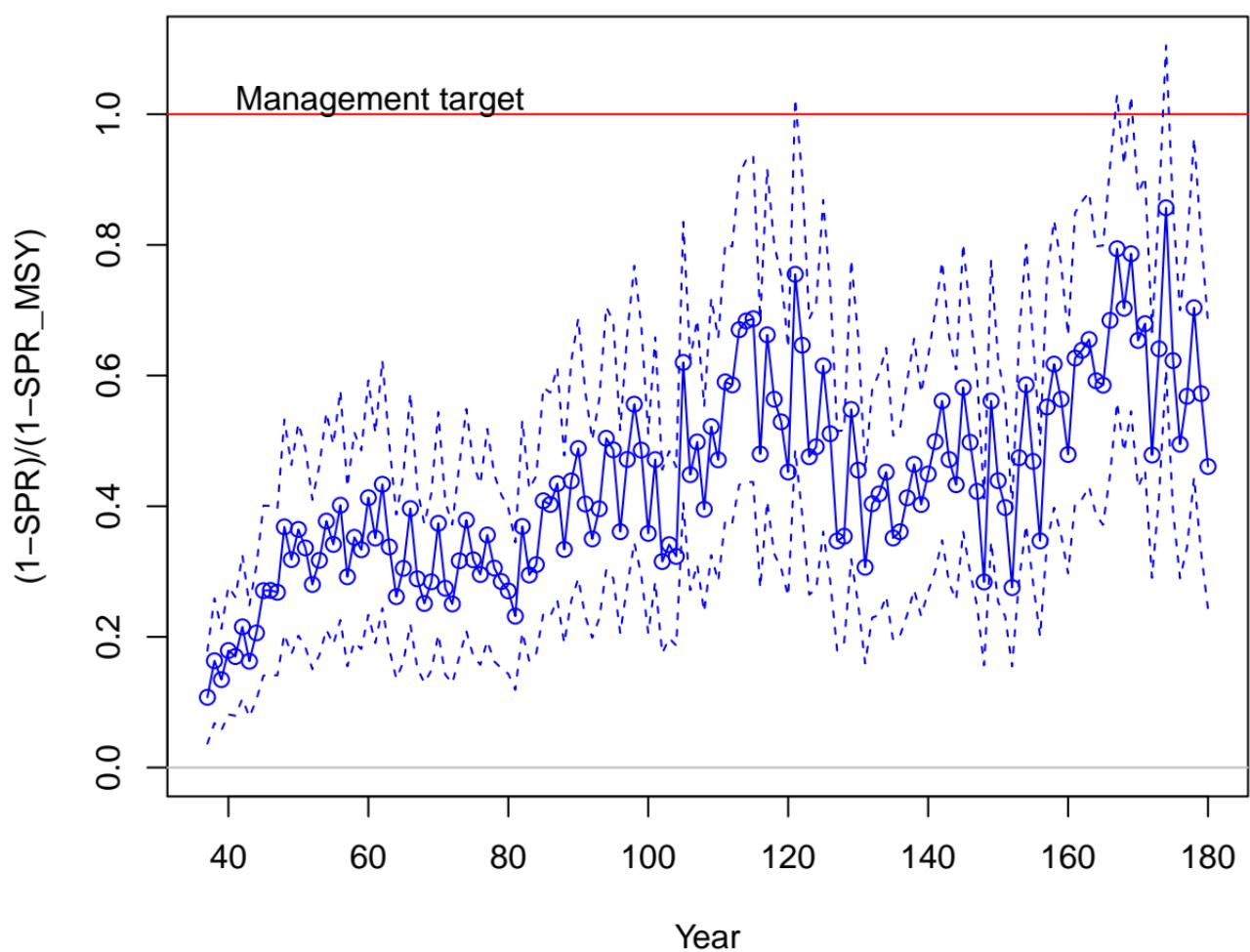


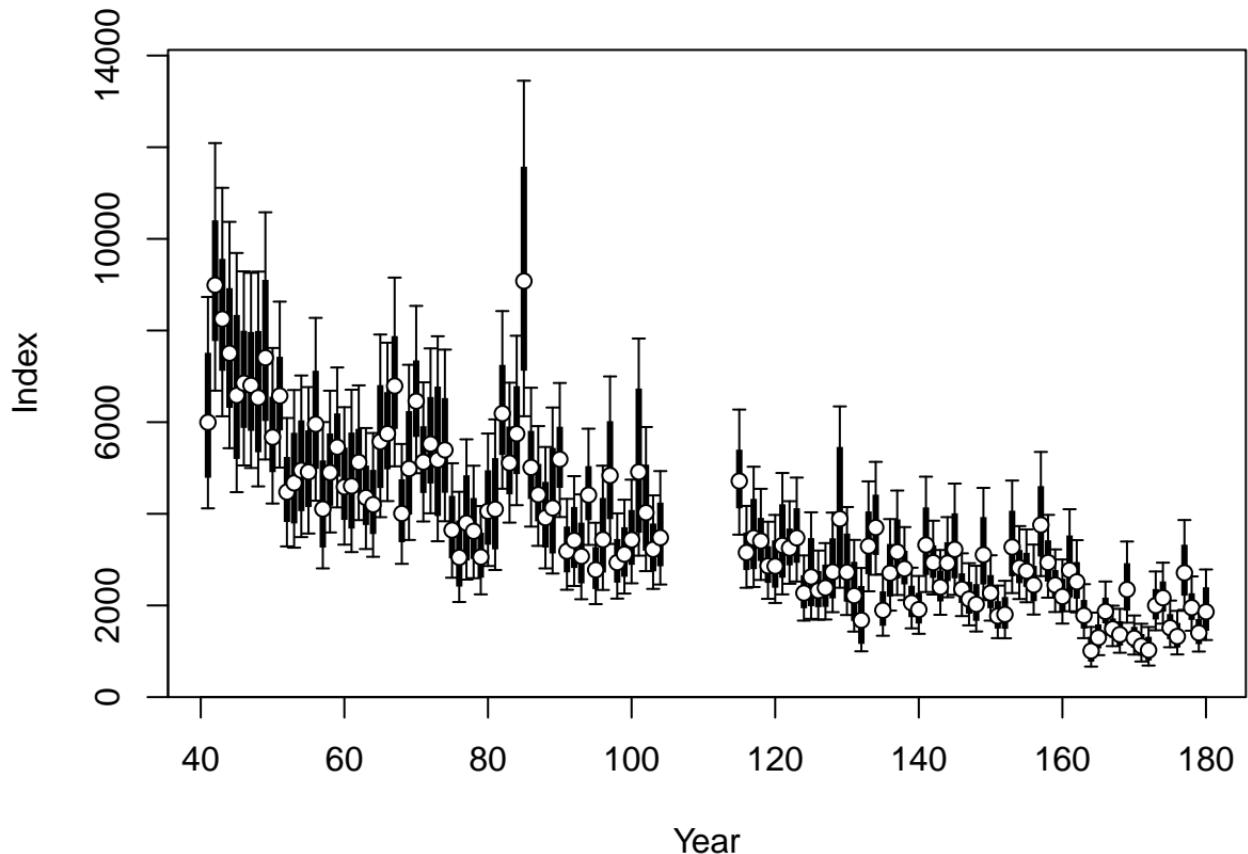
Continuous F

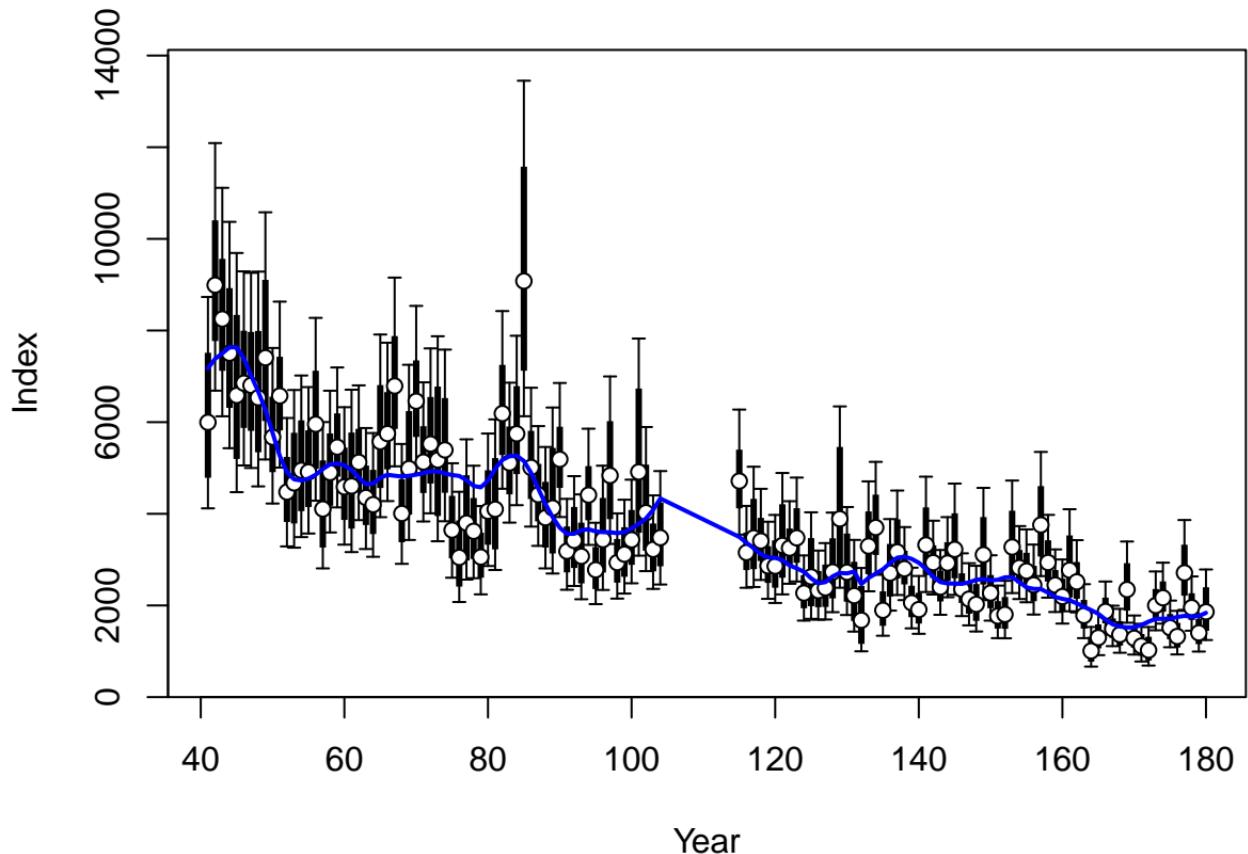


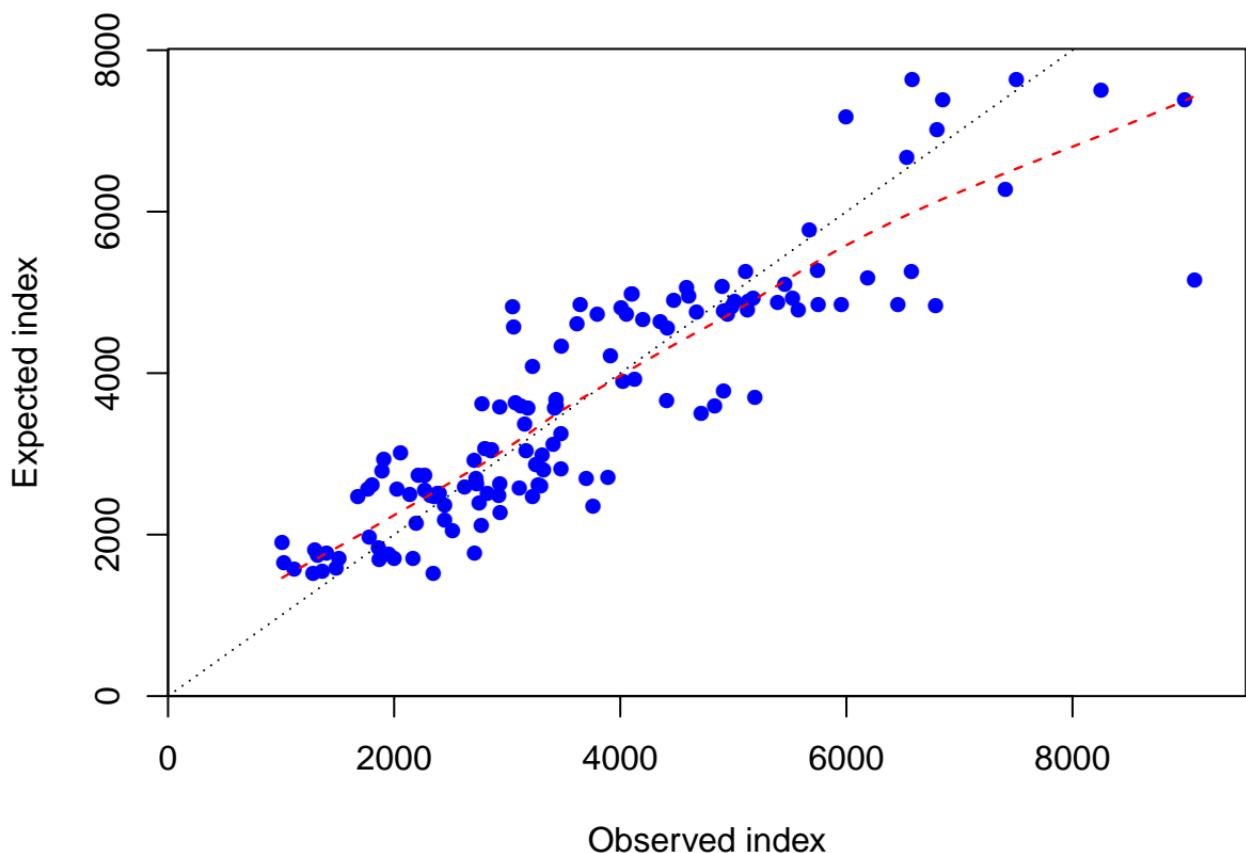


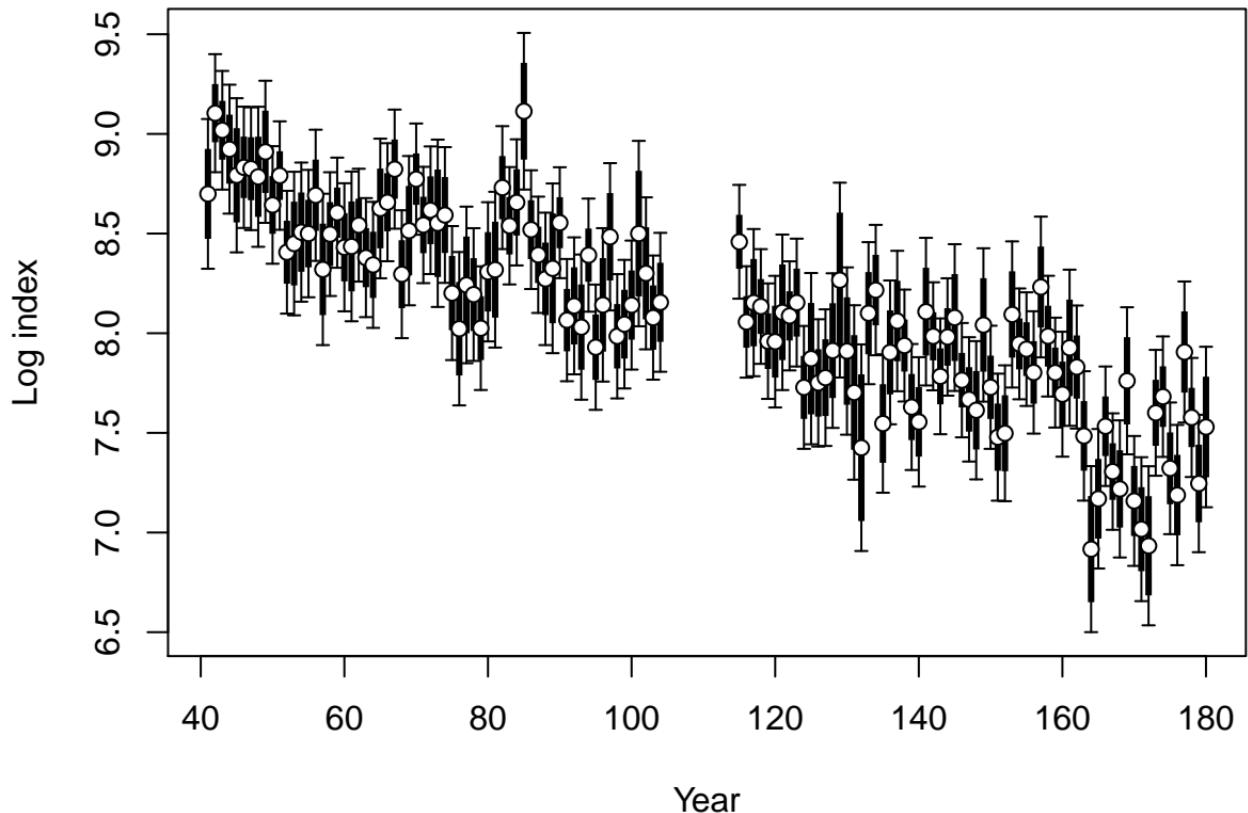


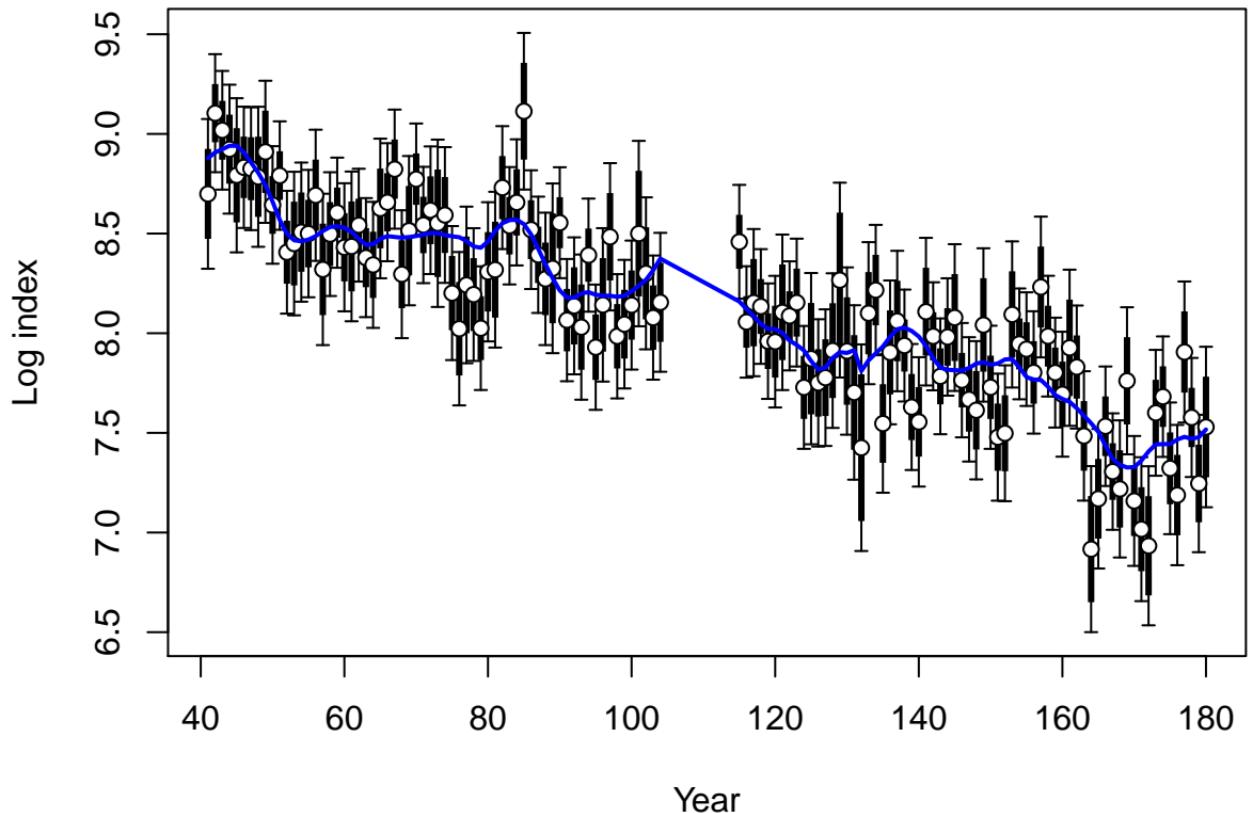


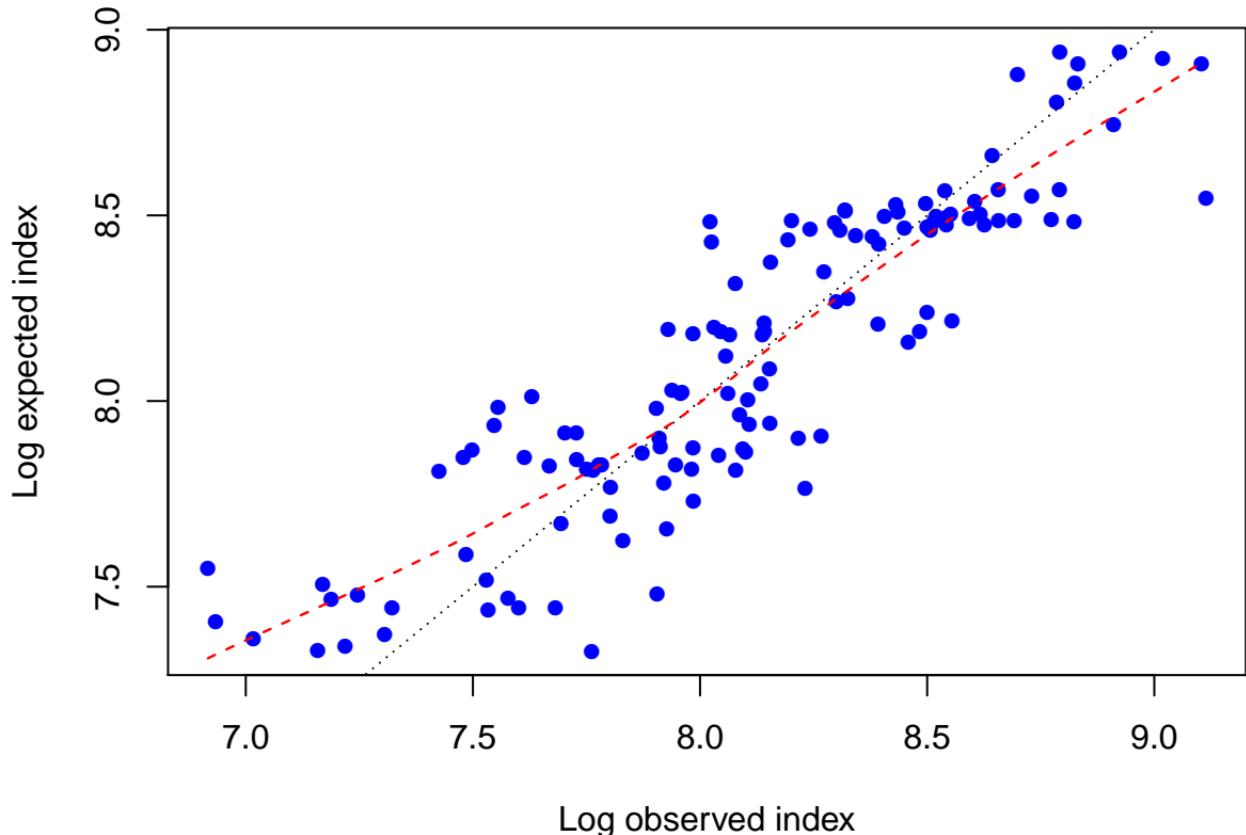


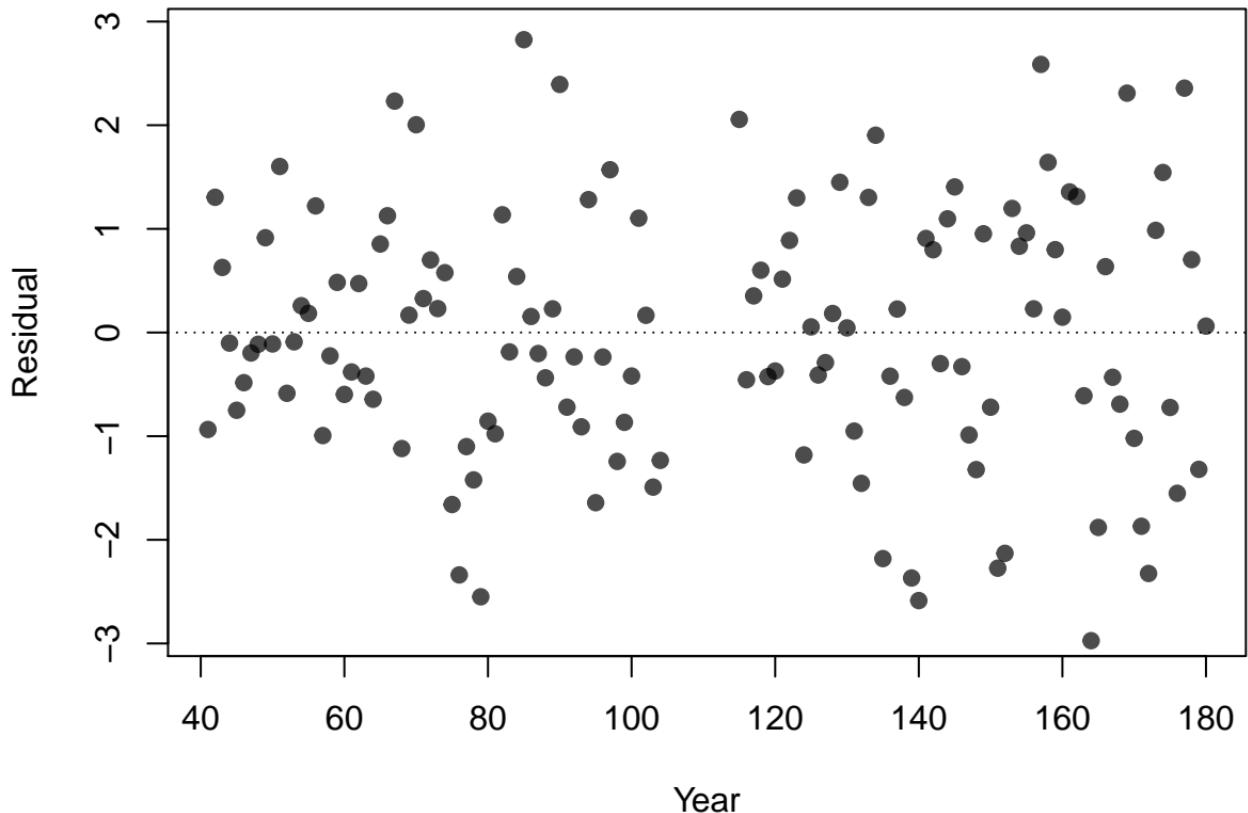


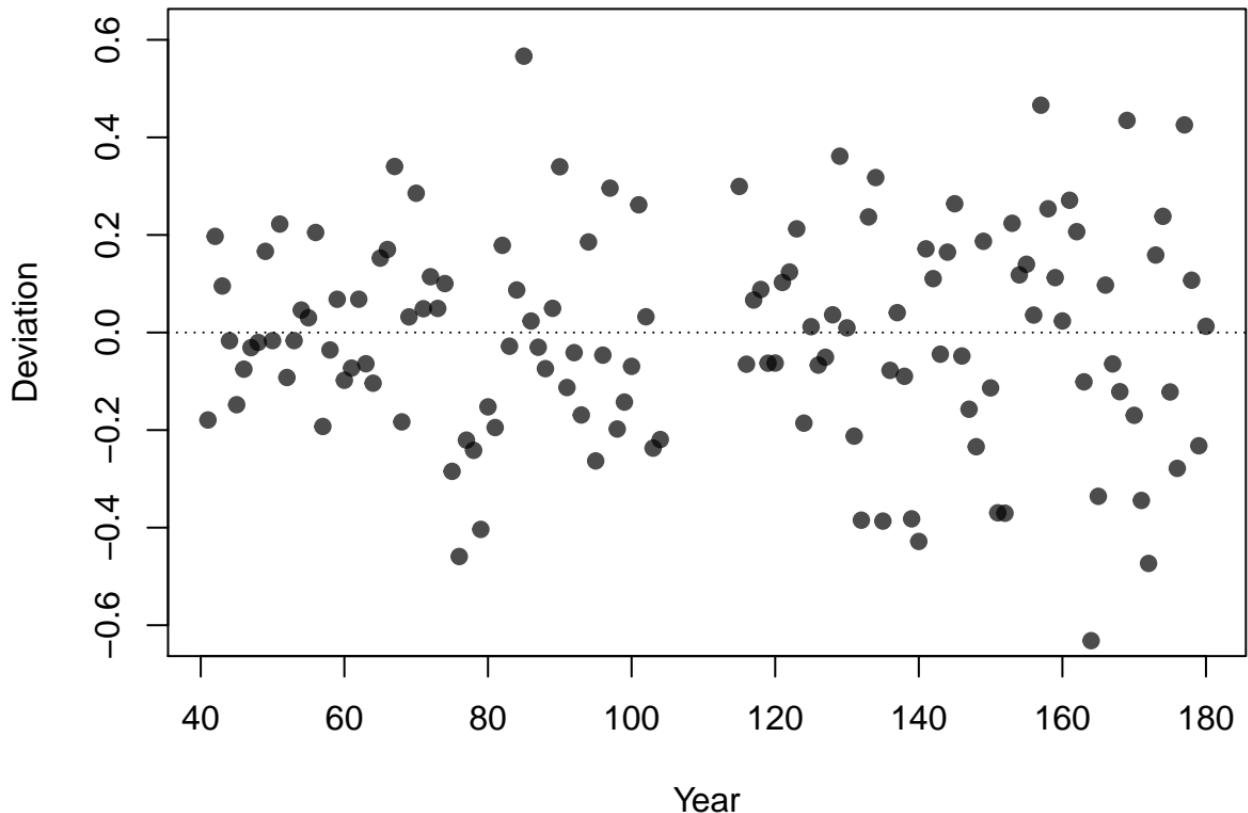


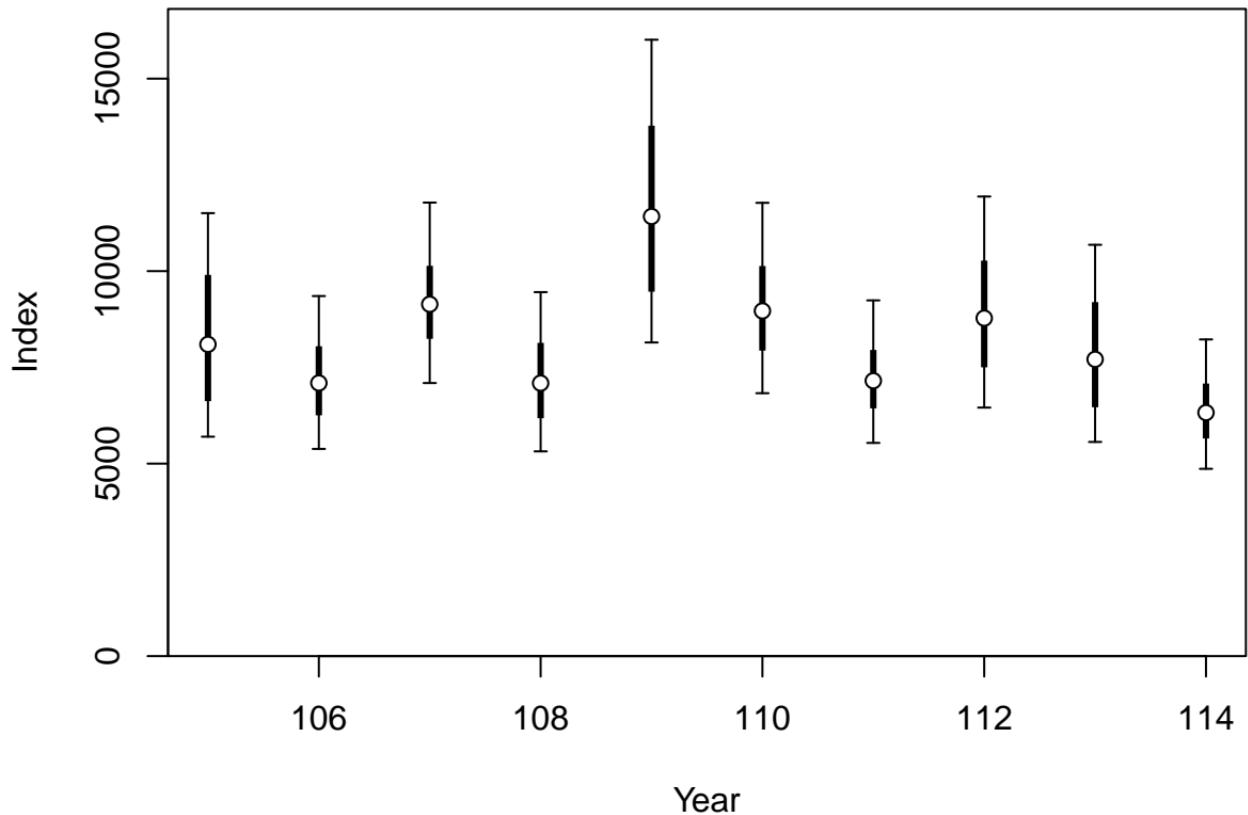


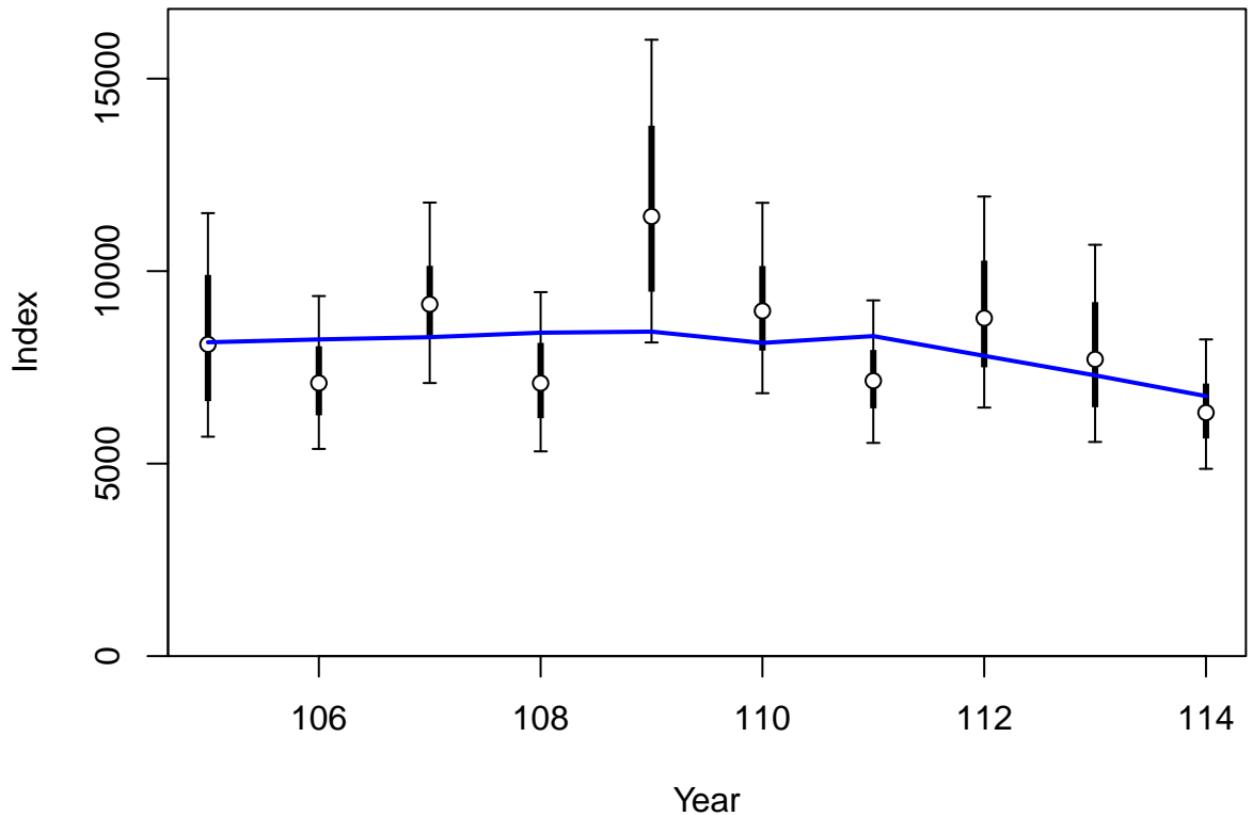


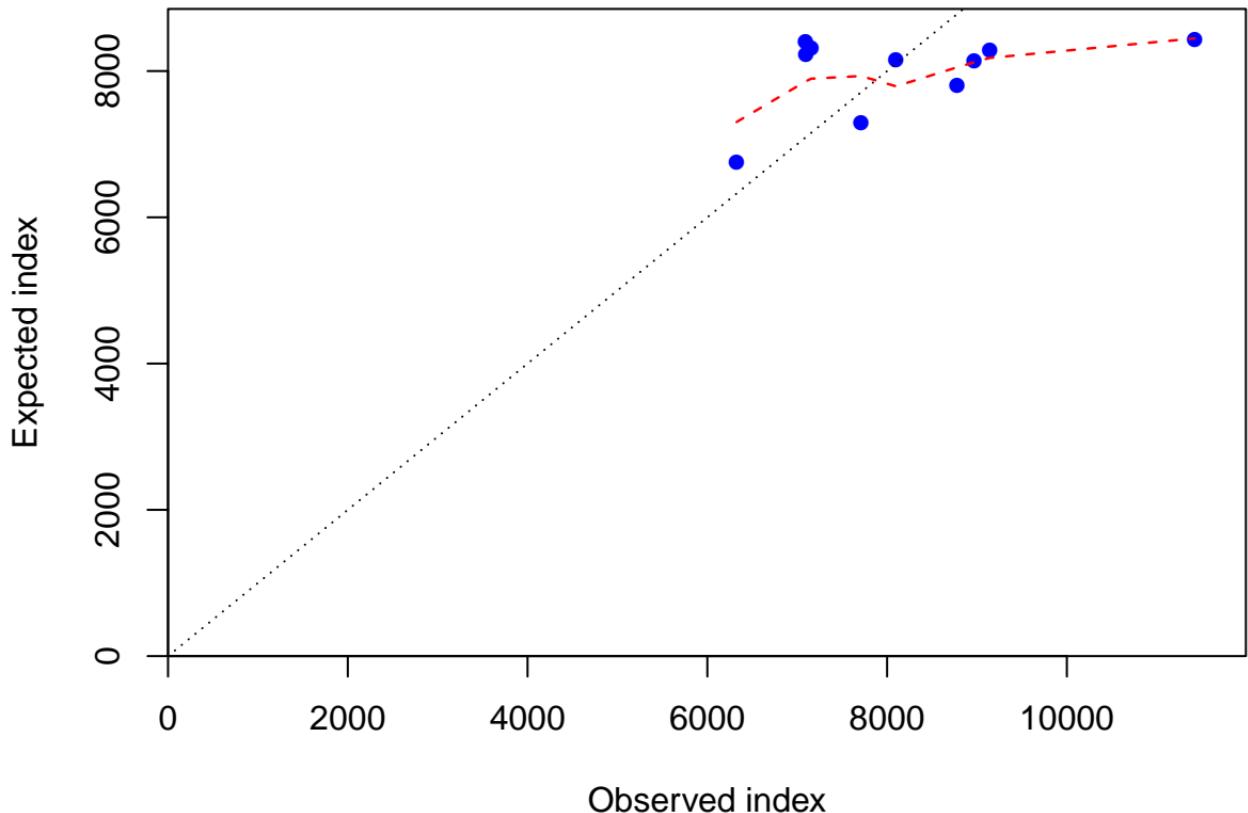


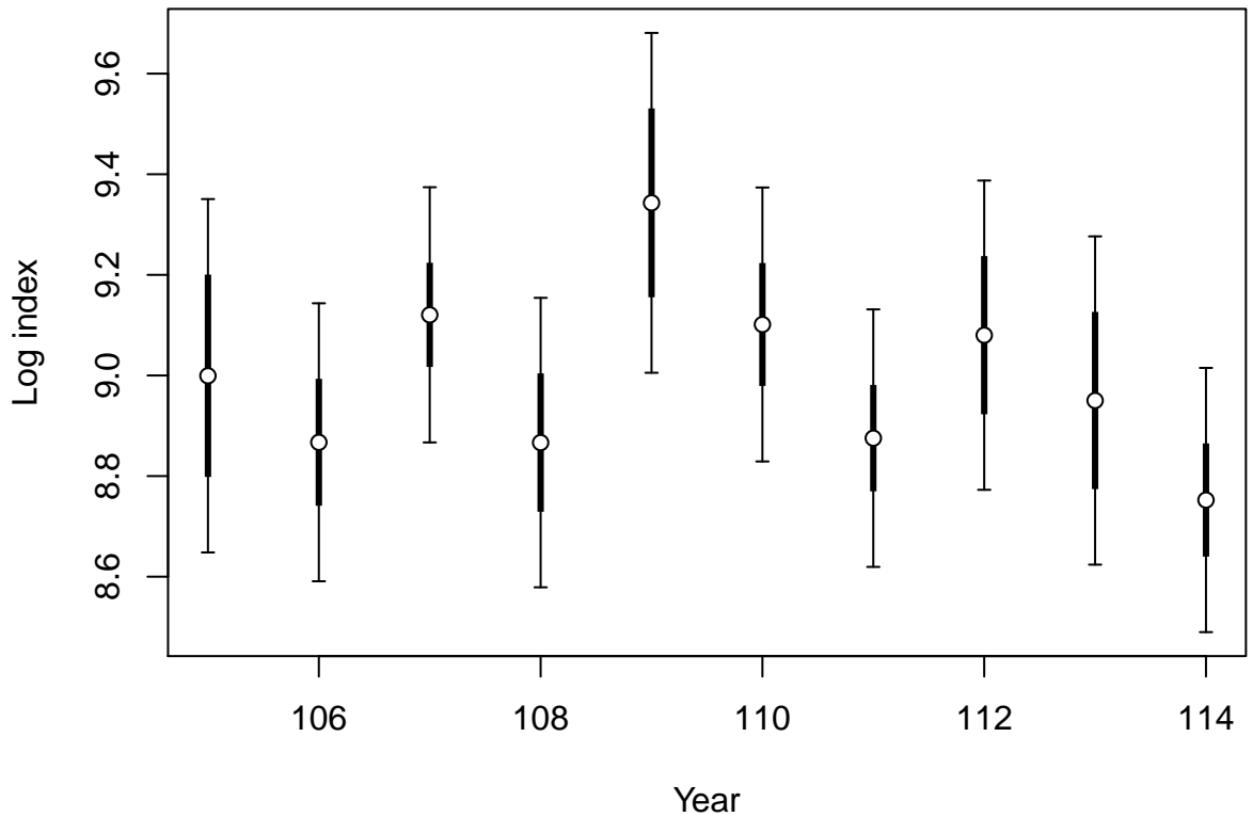


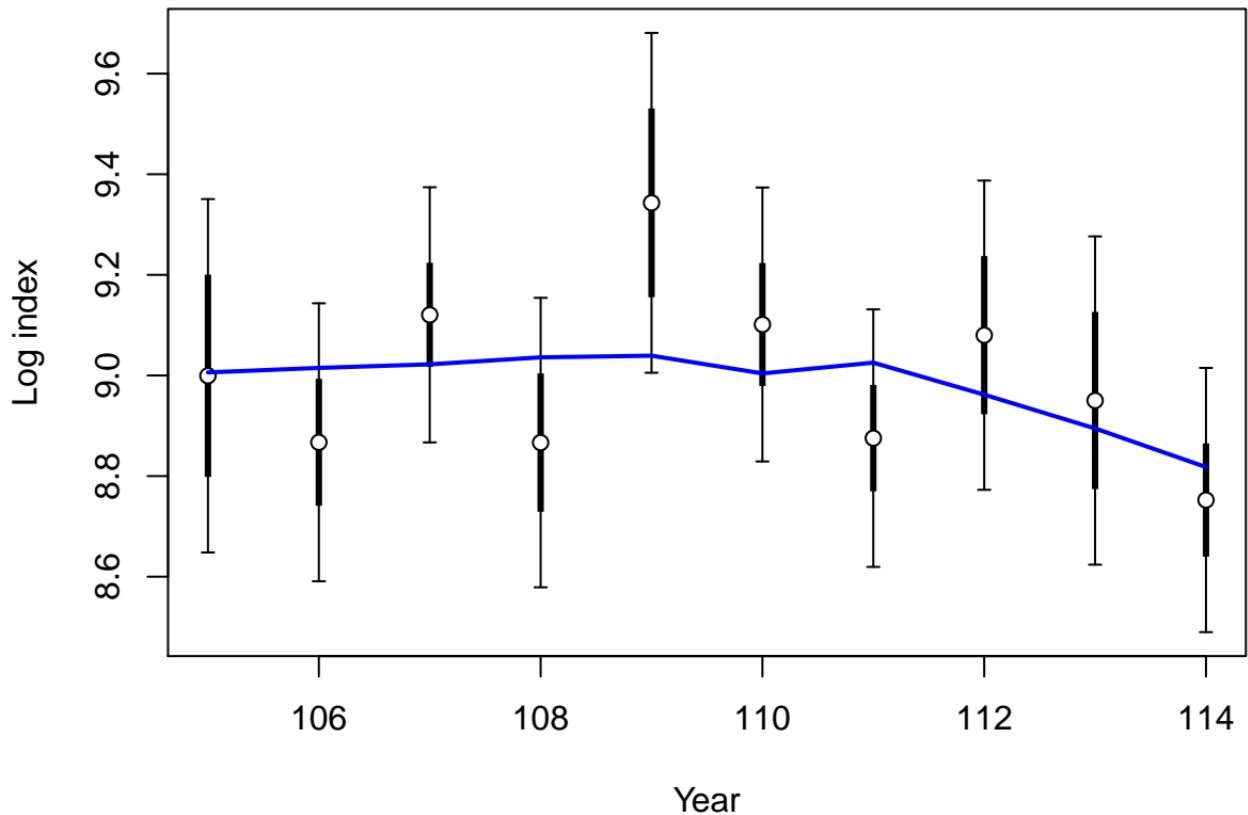


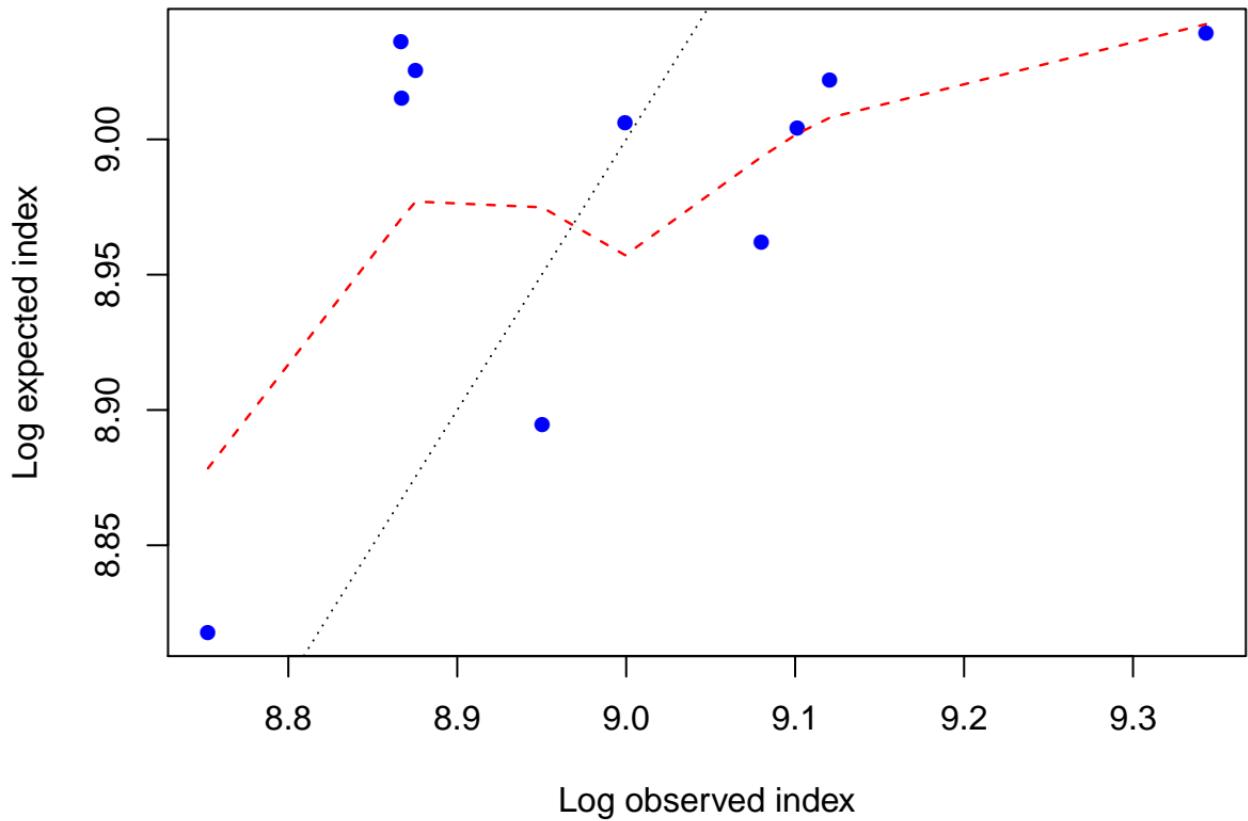


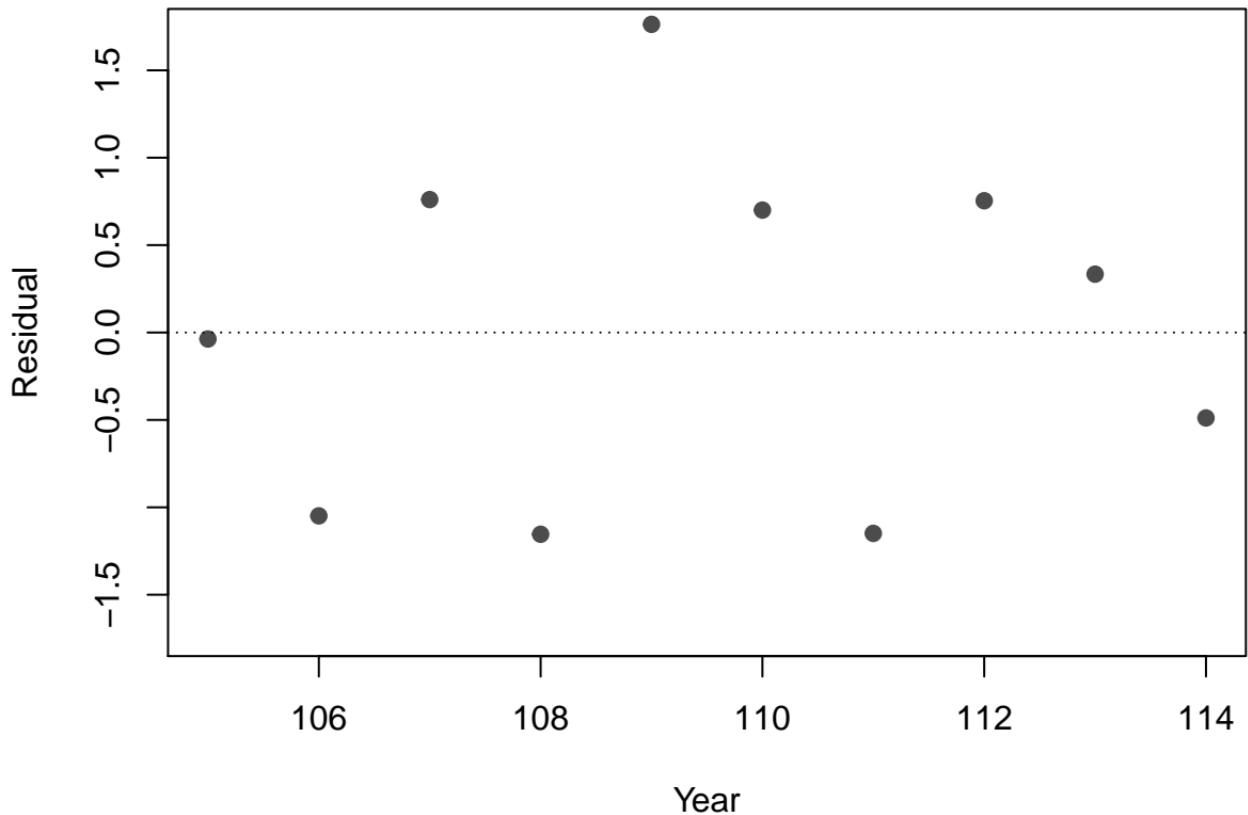


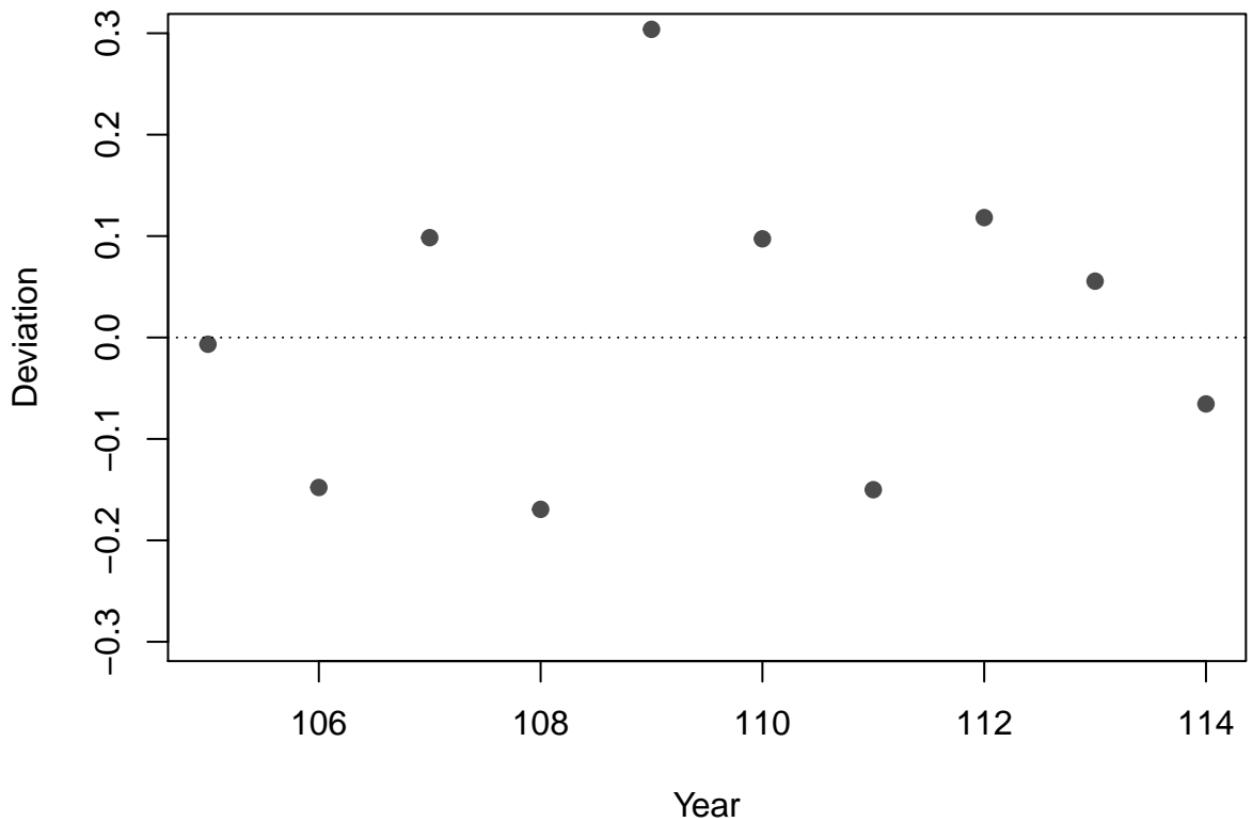


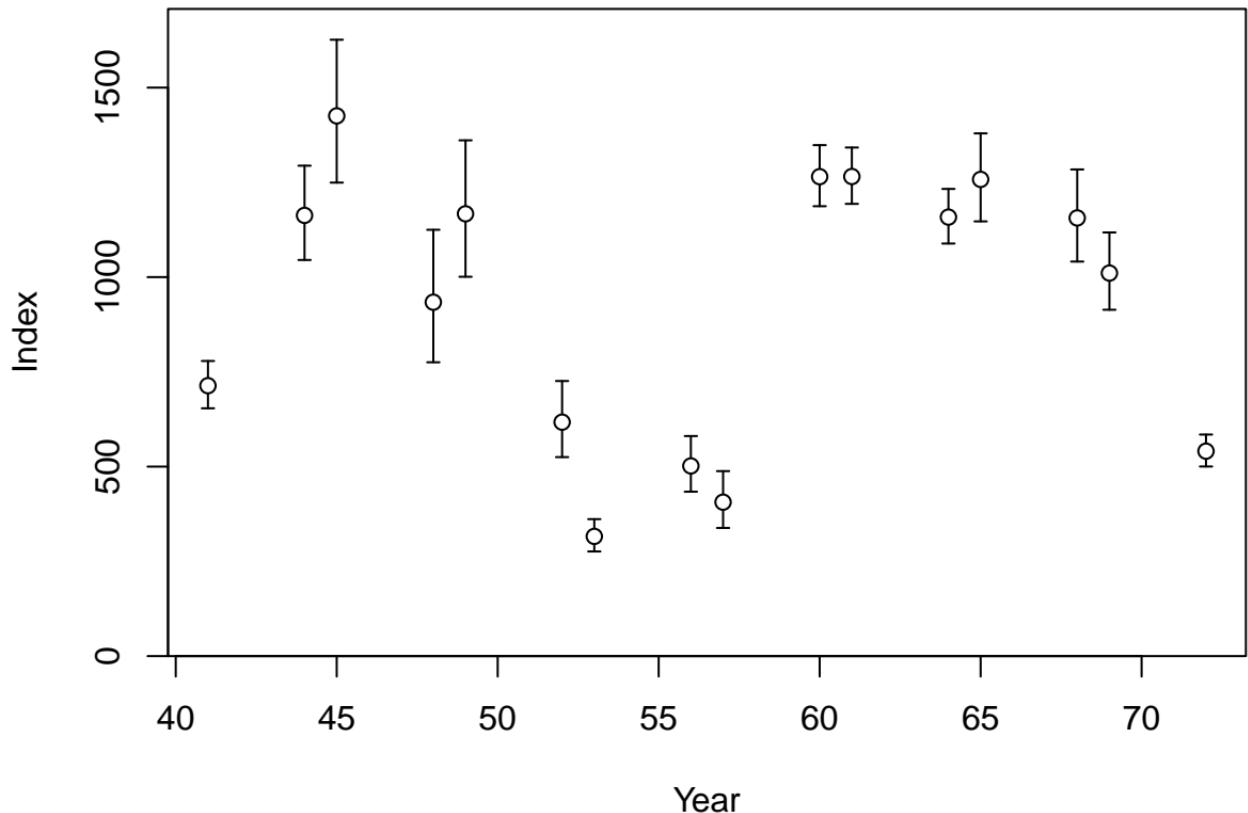


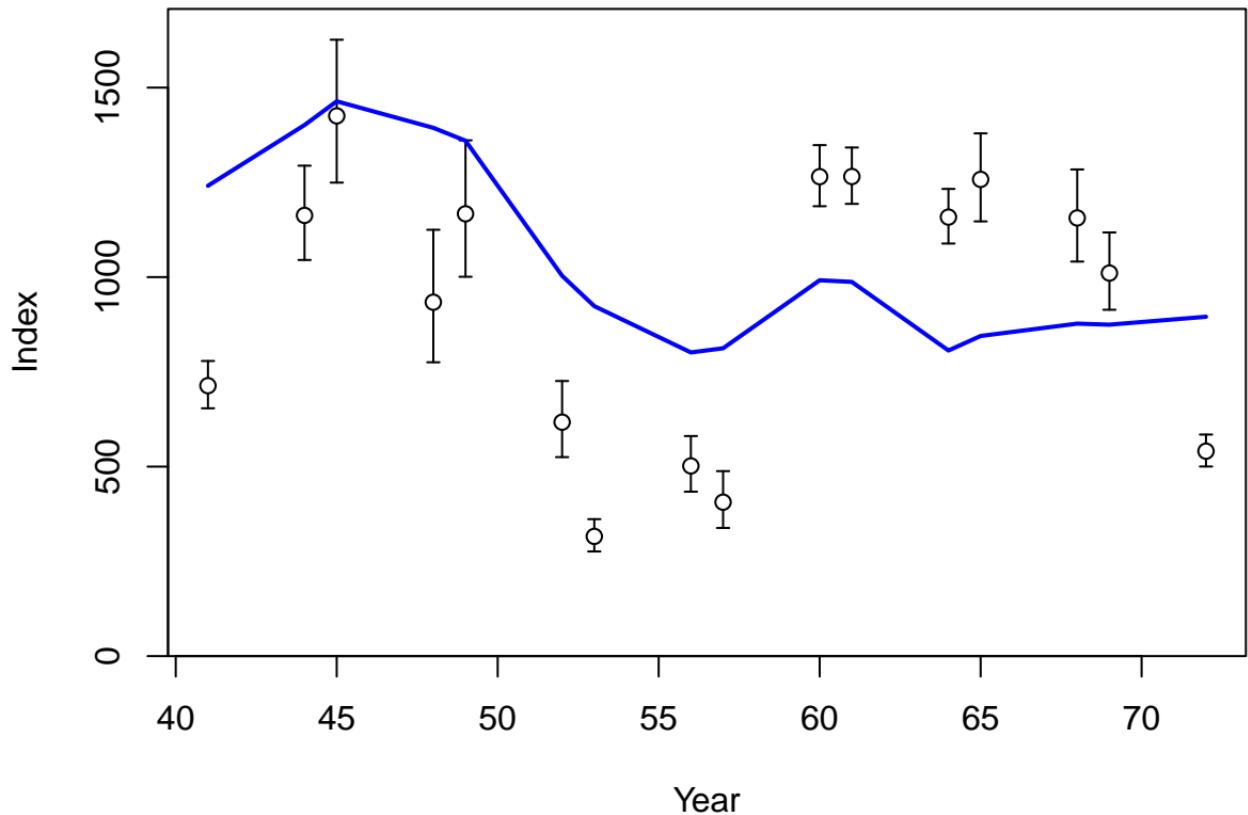


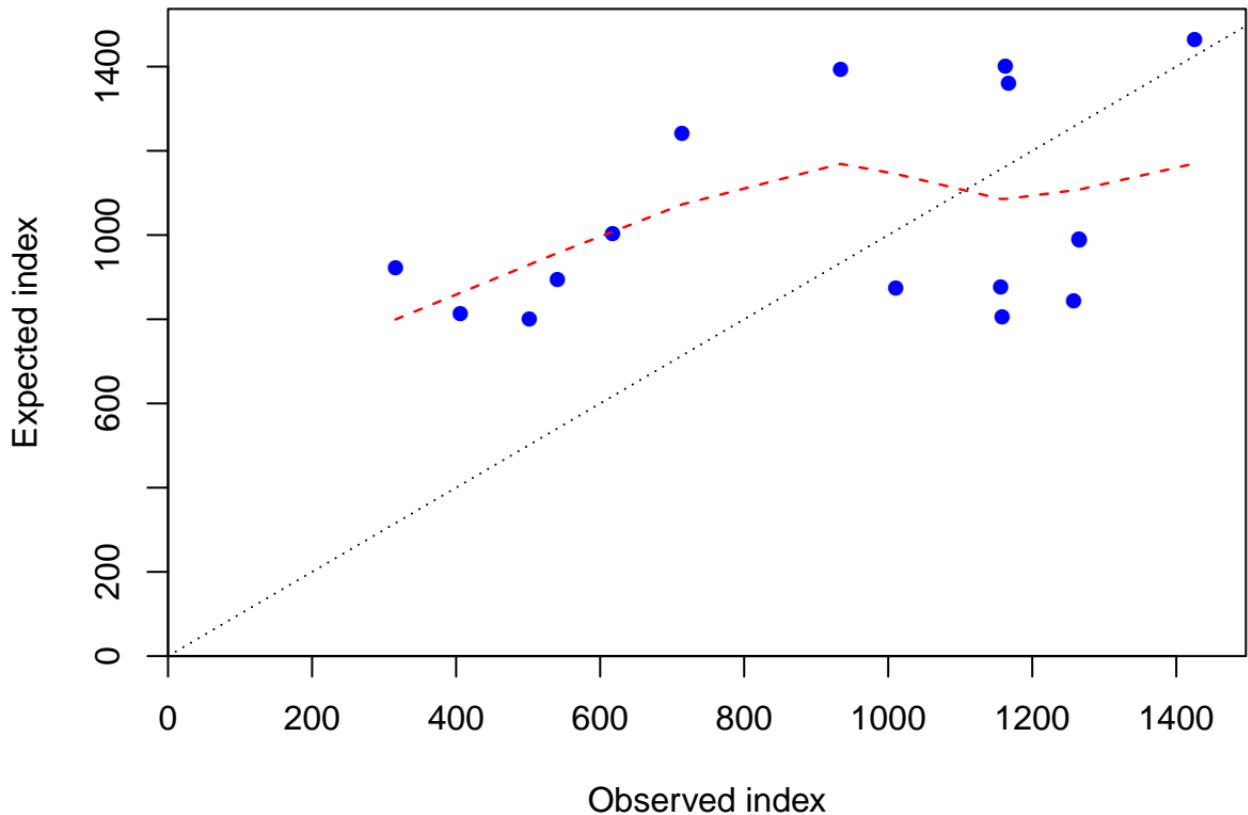


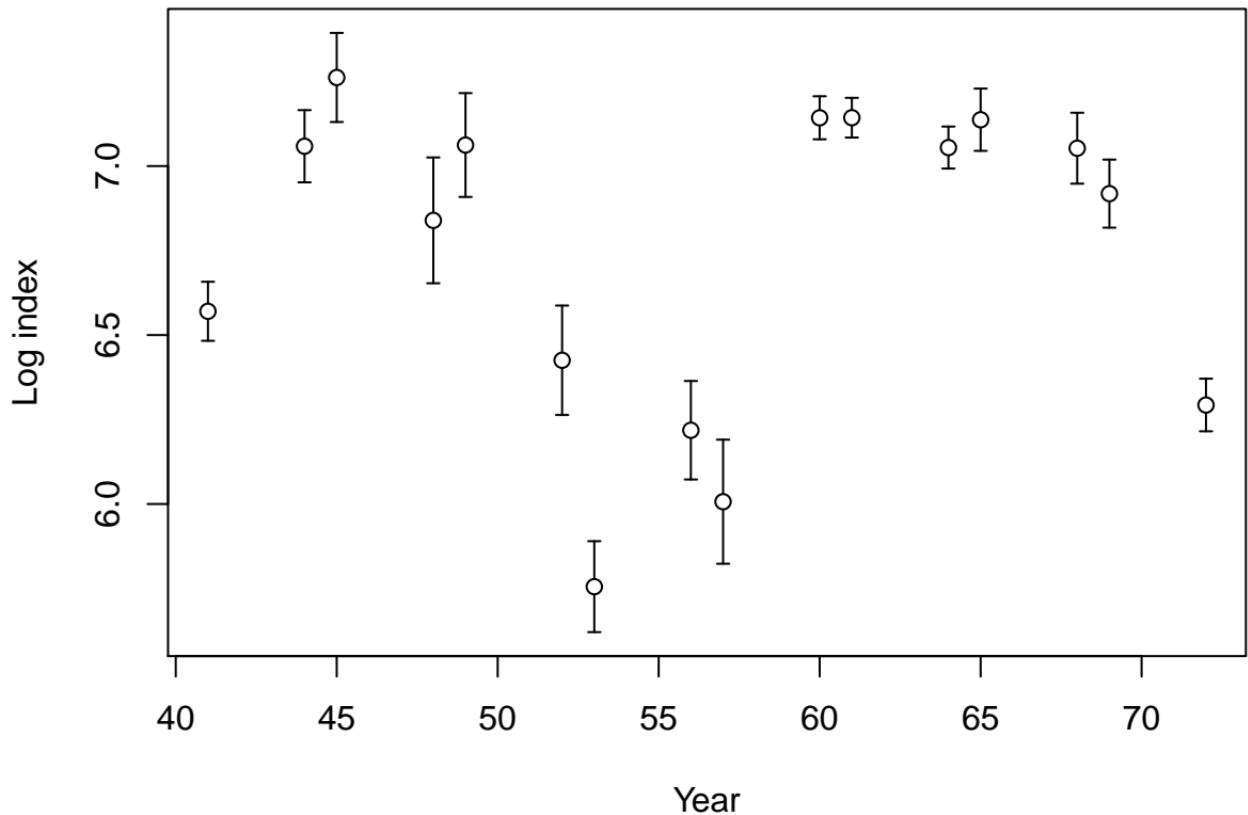


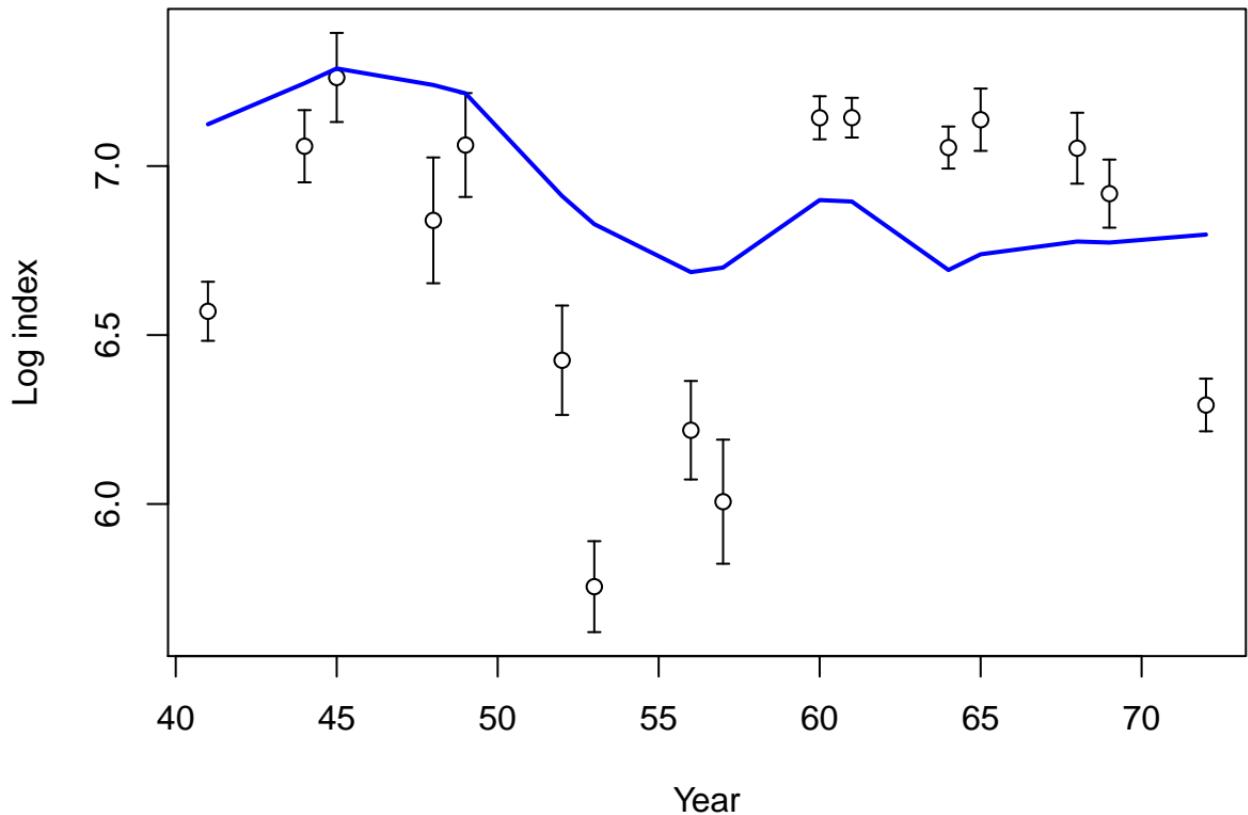


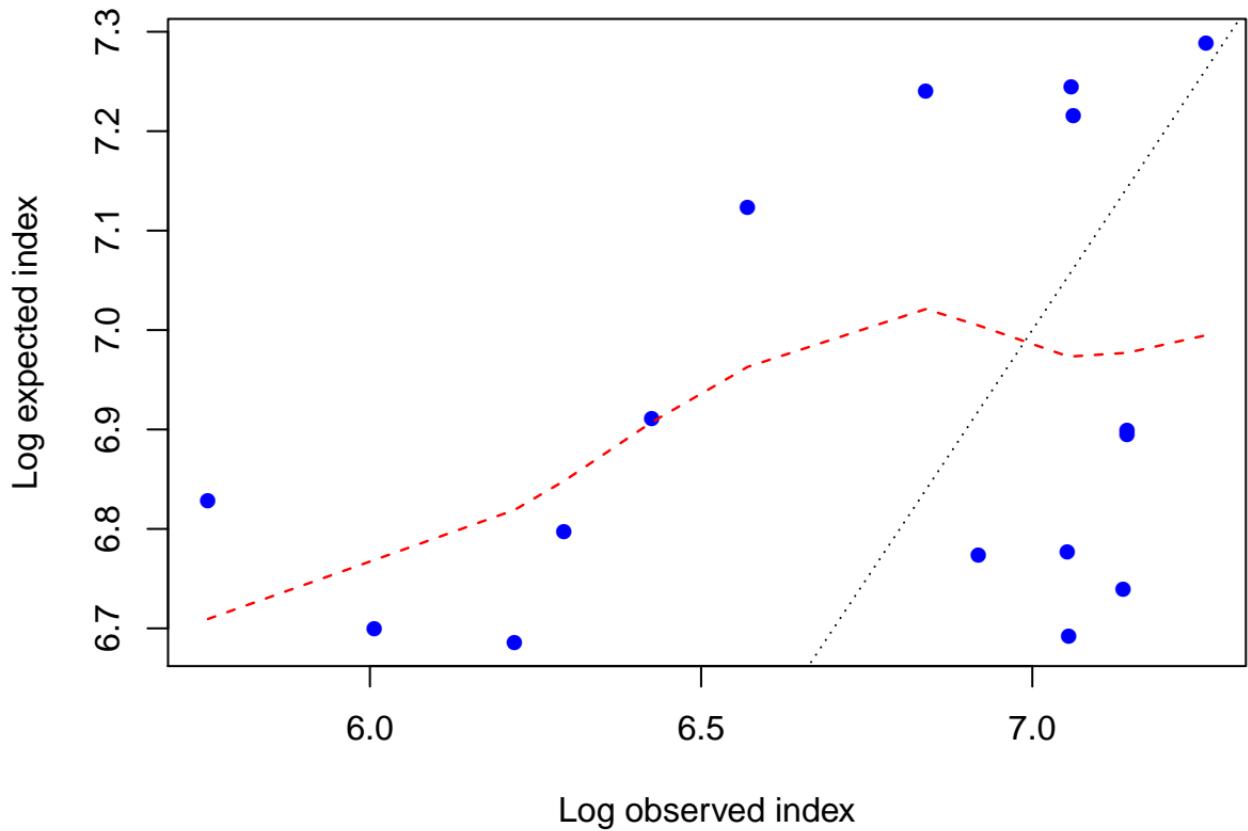


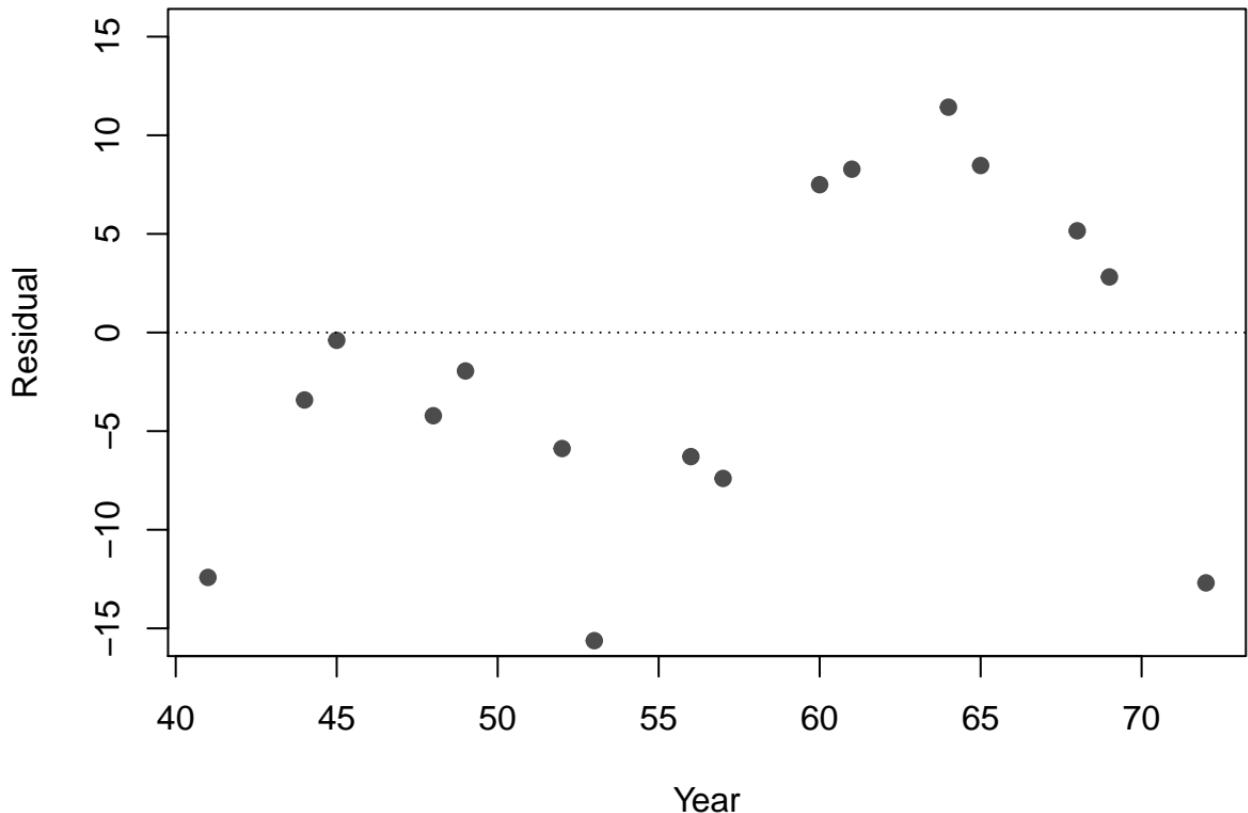


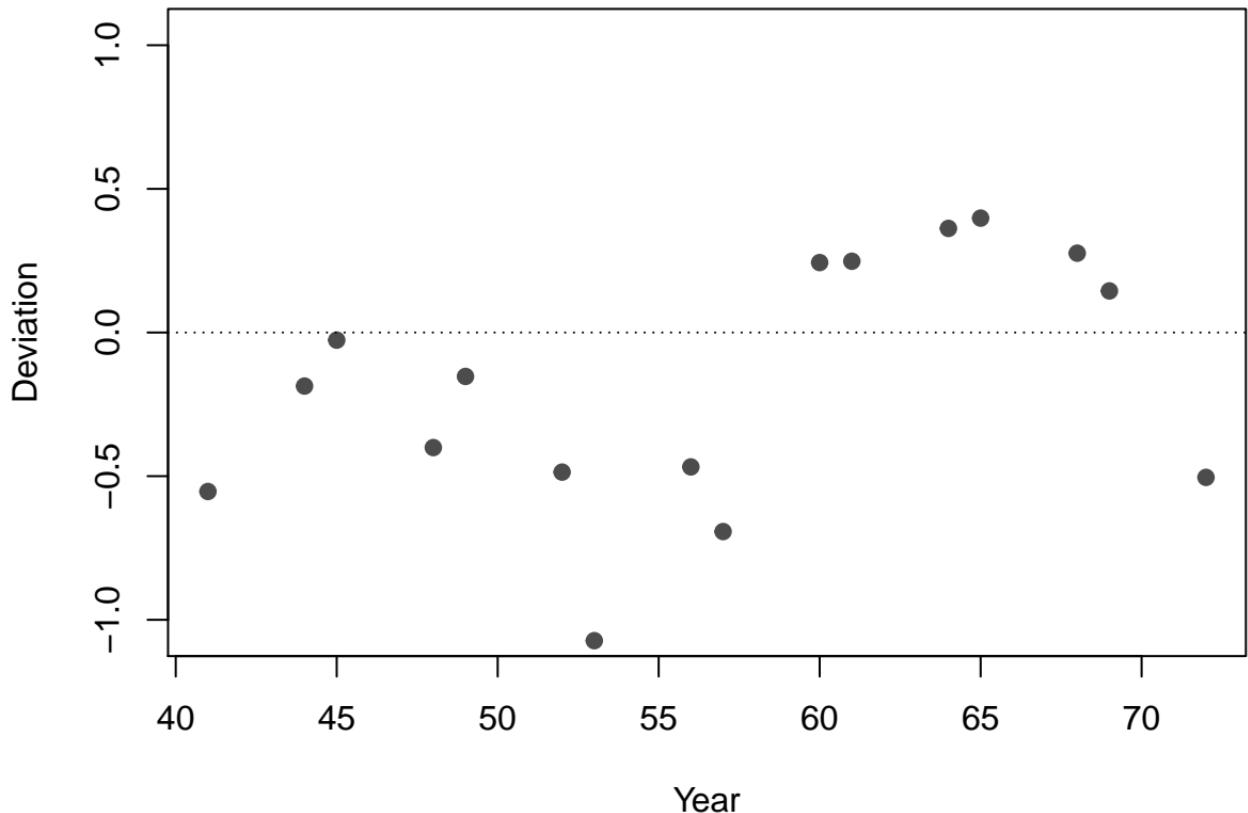


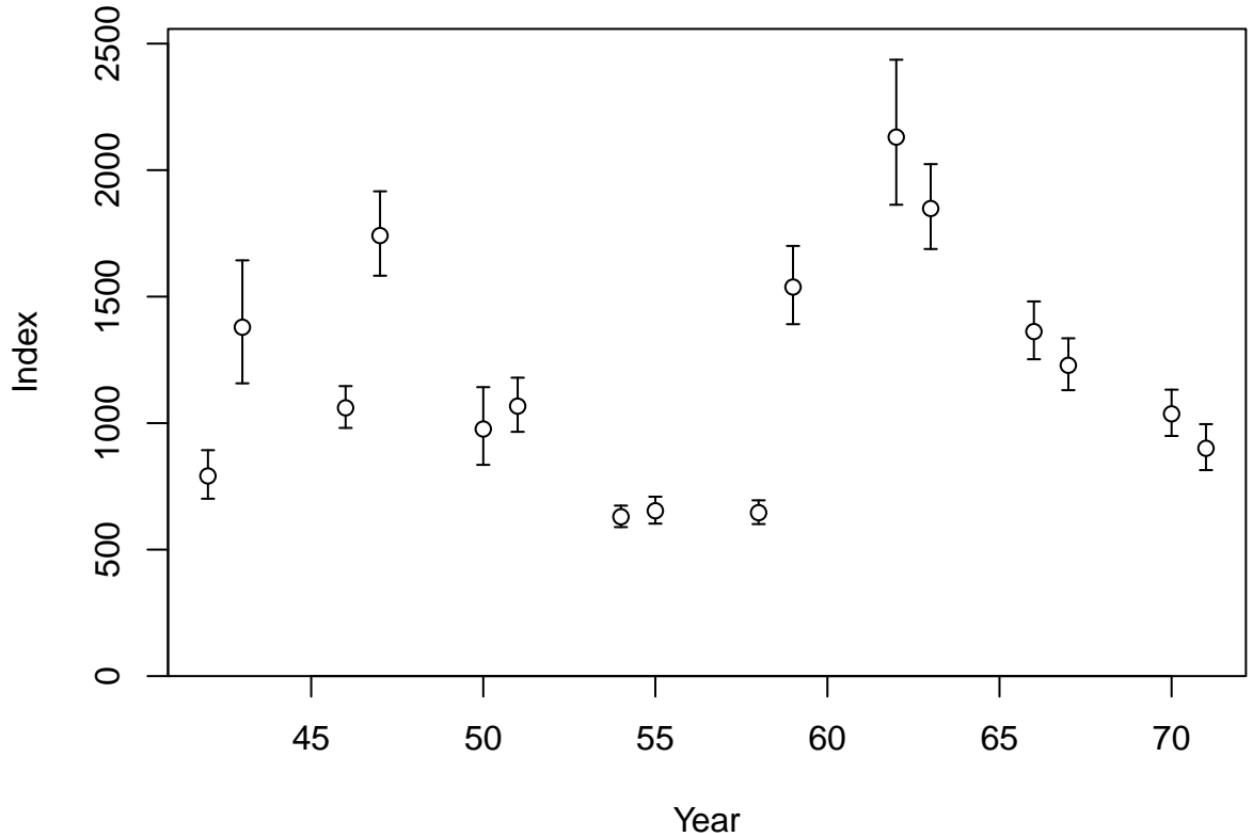


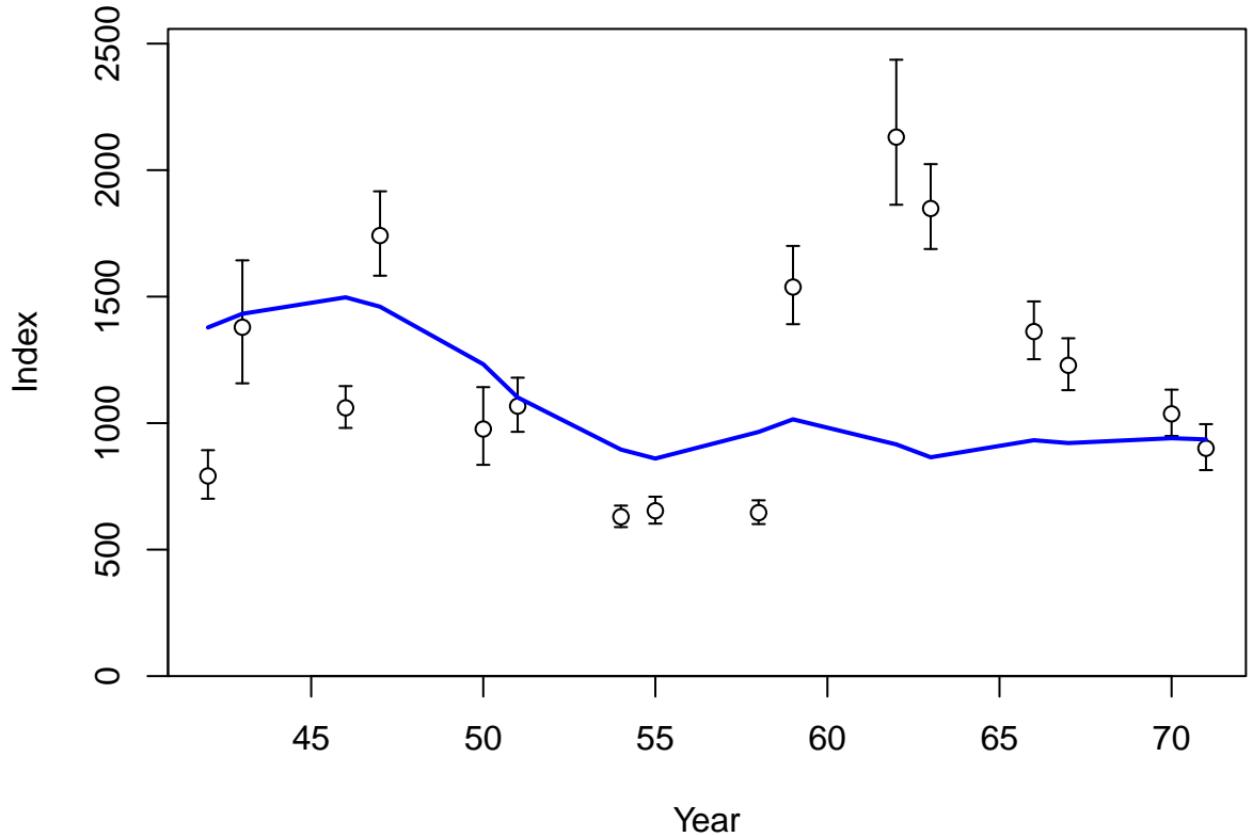


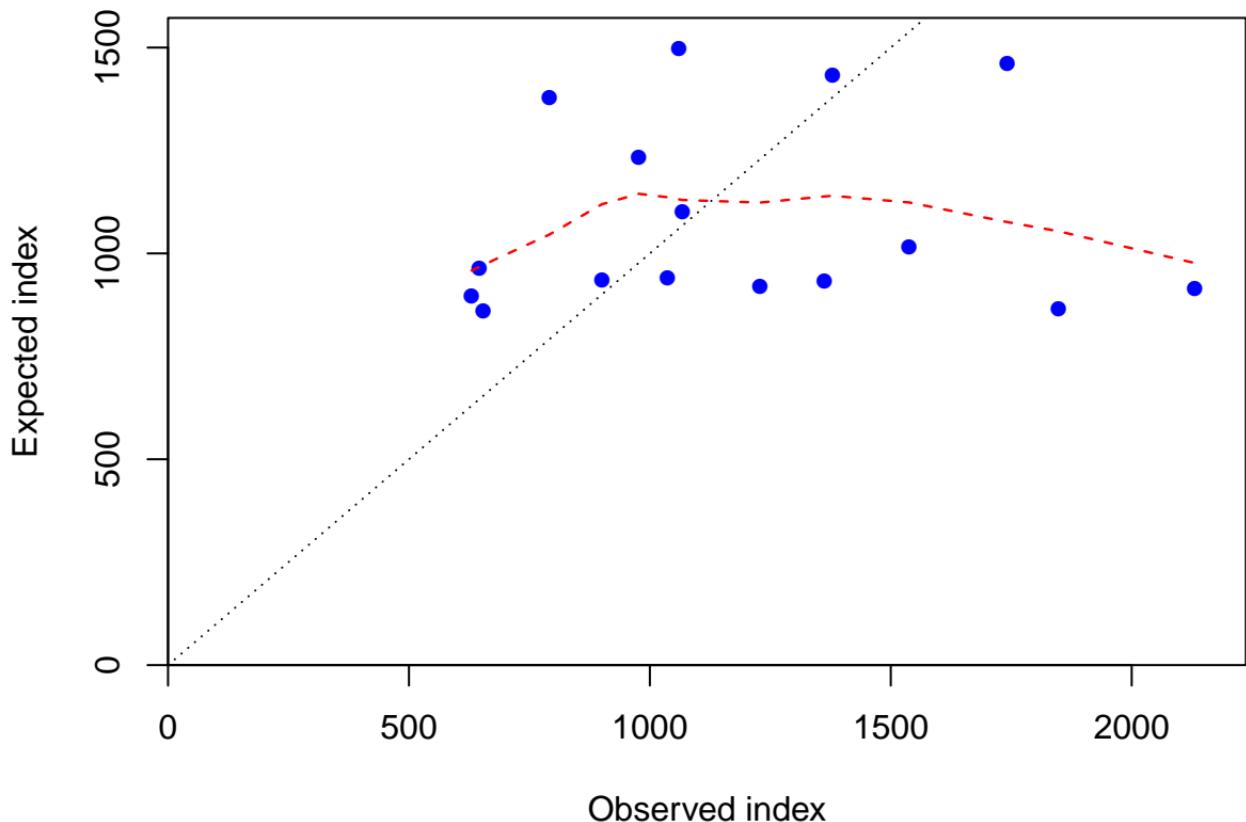


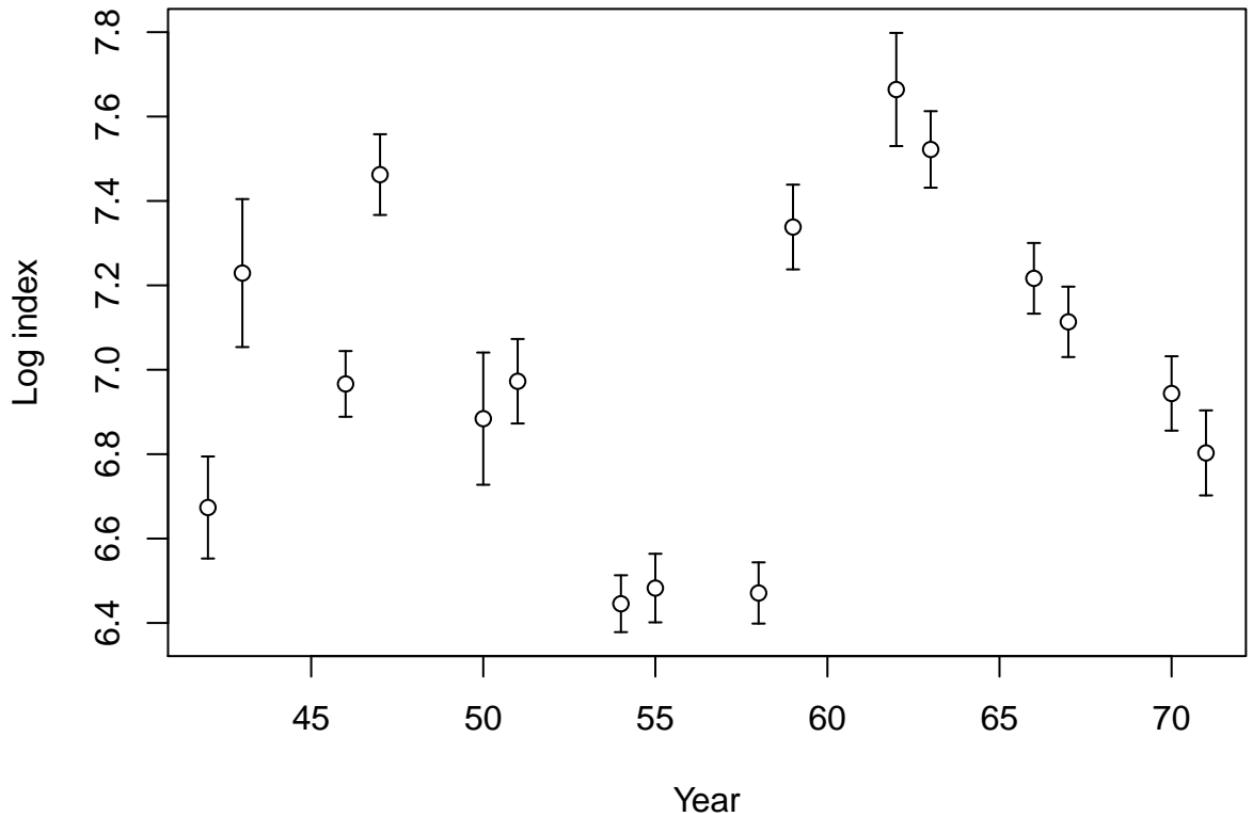


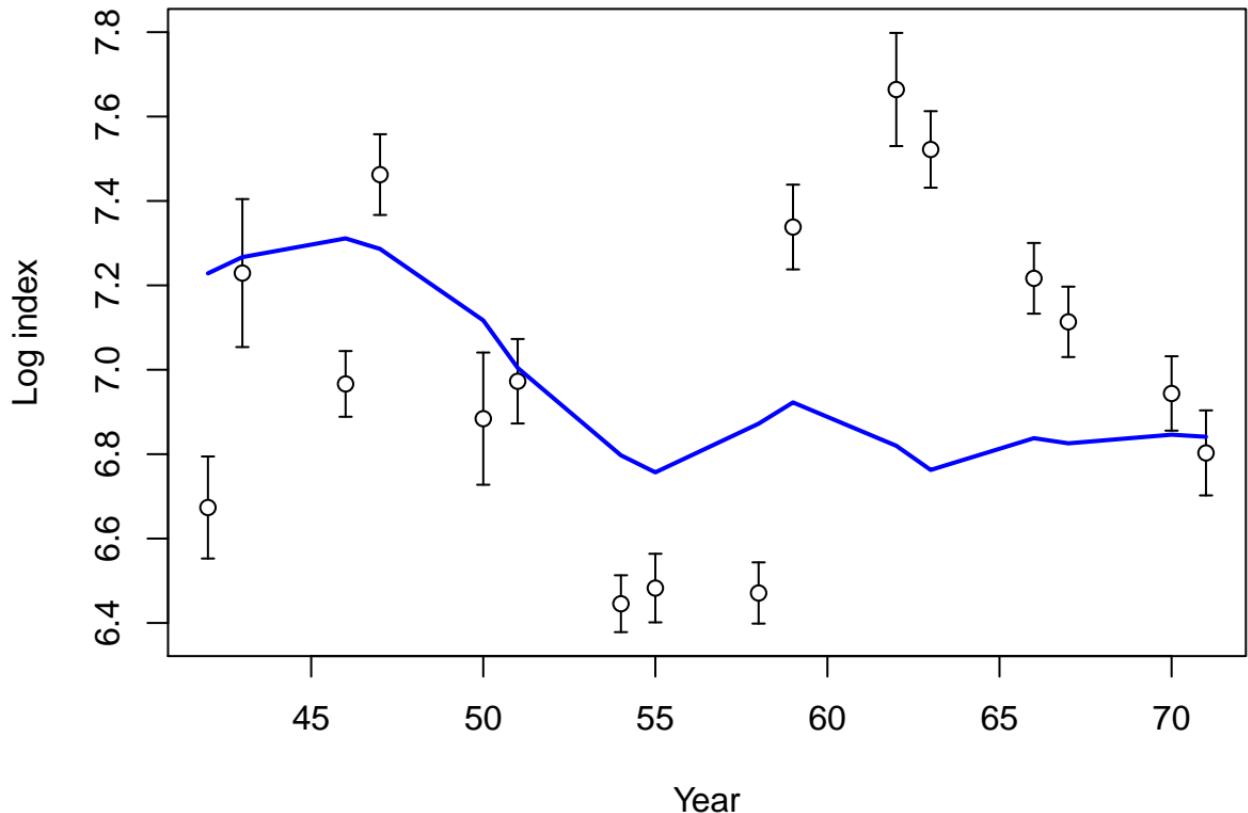


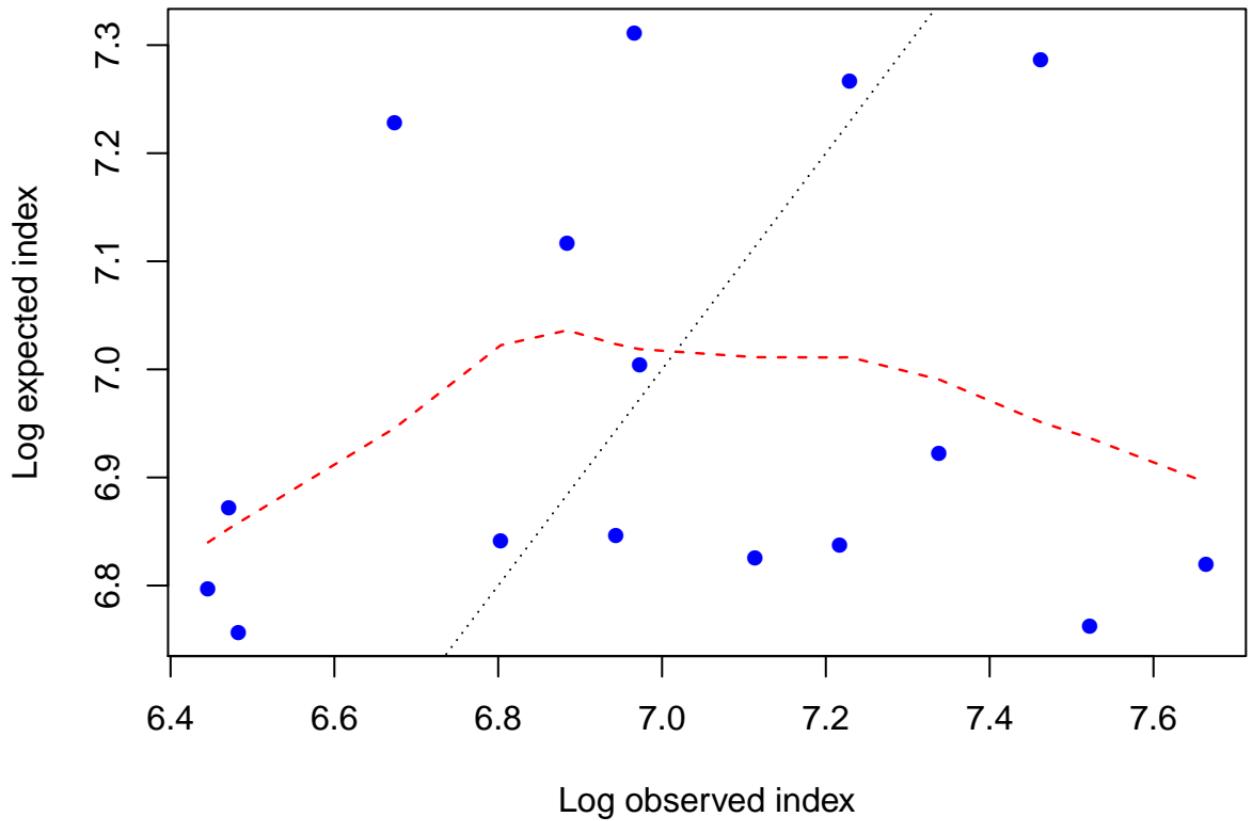


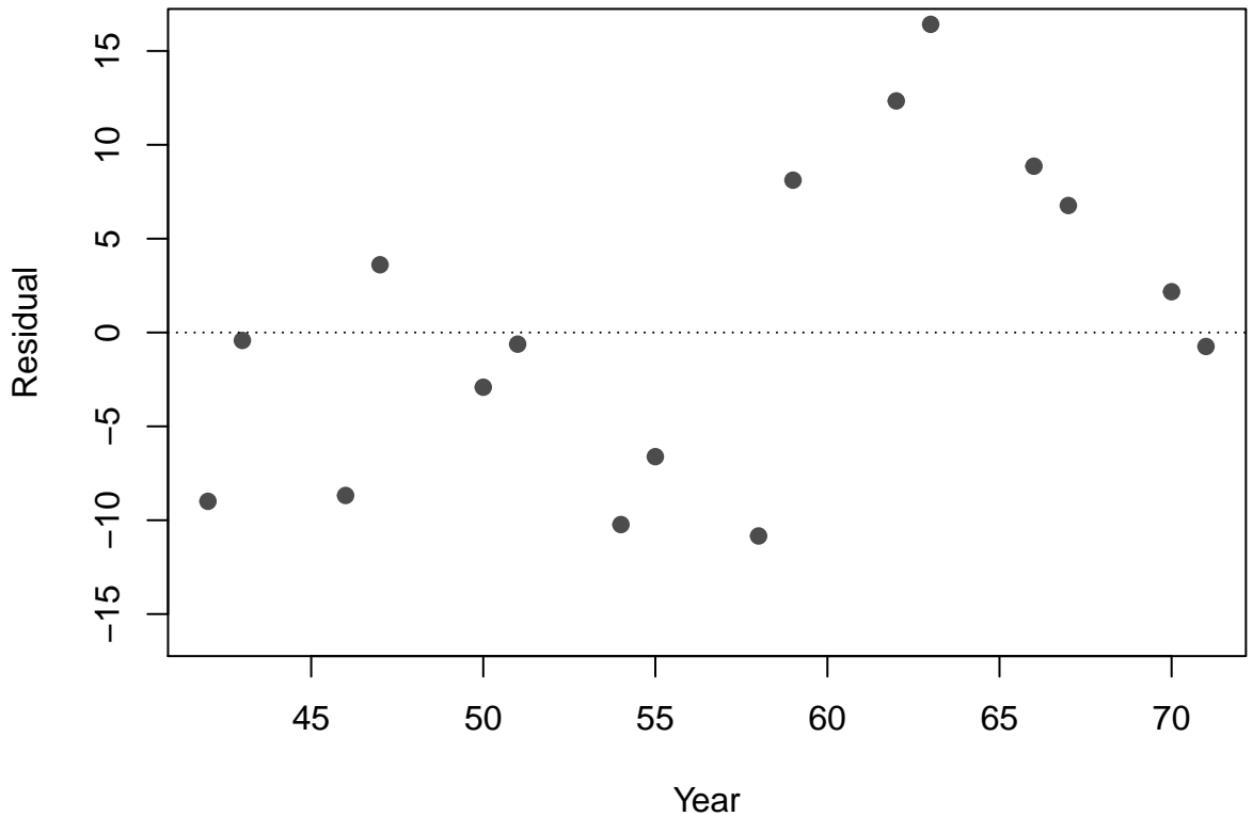


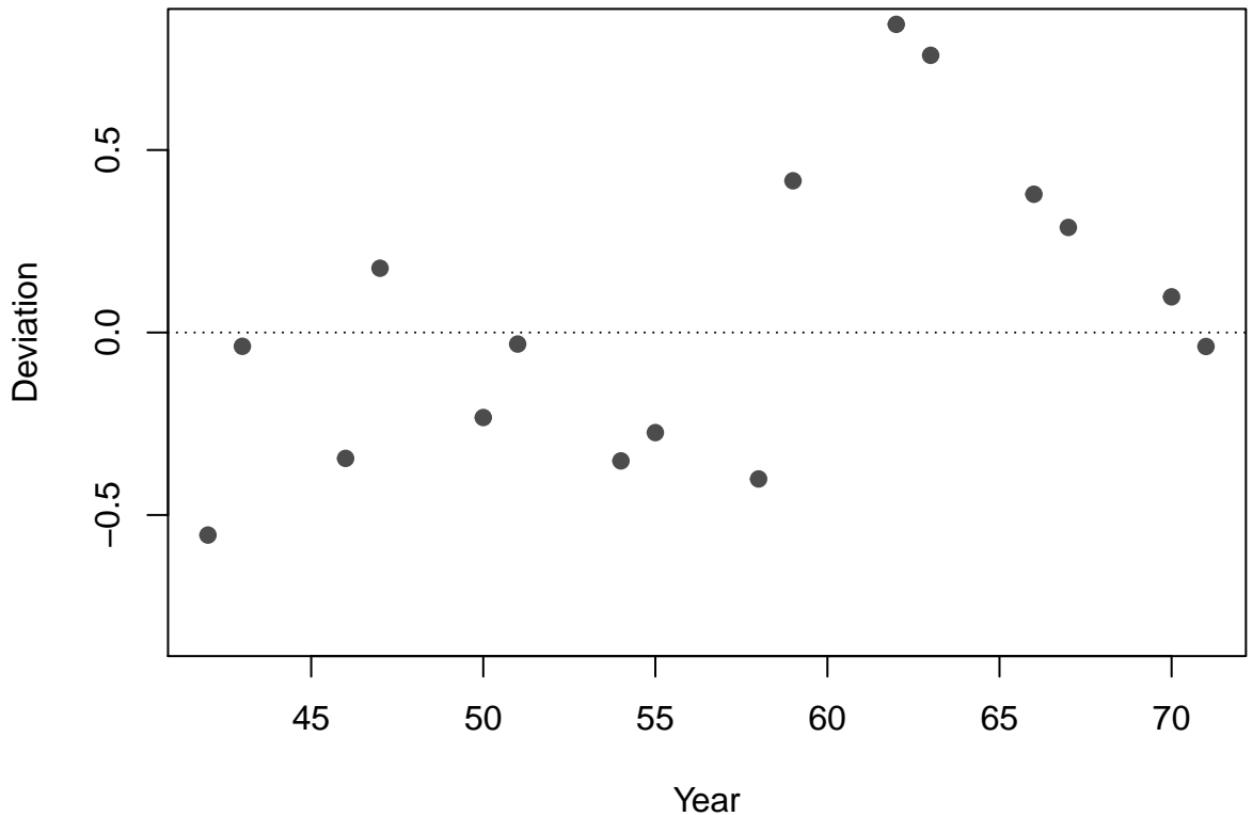


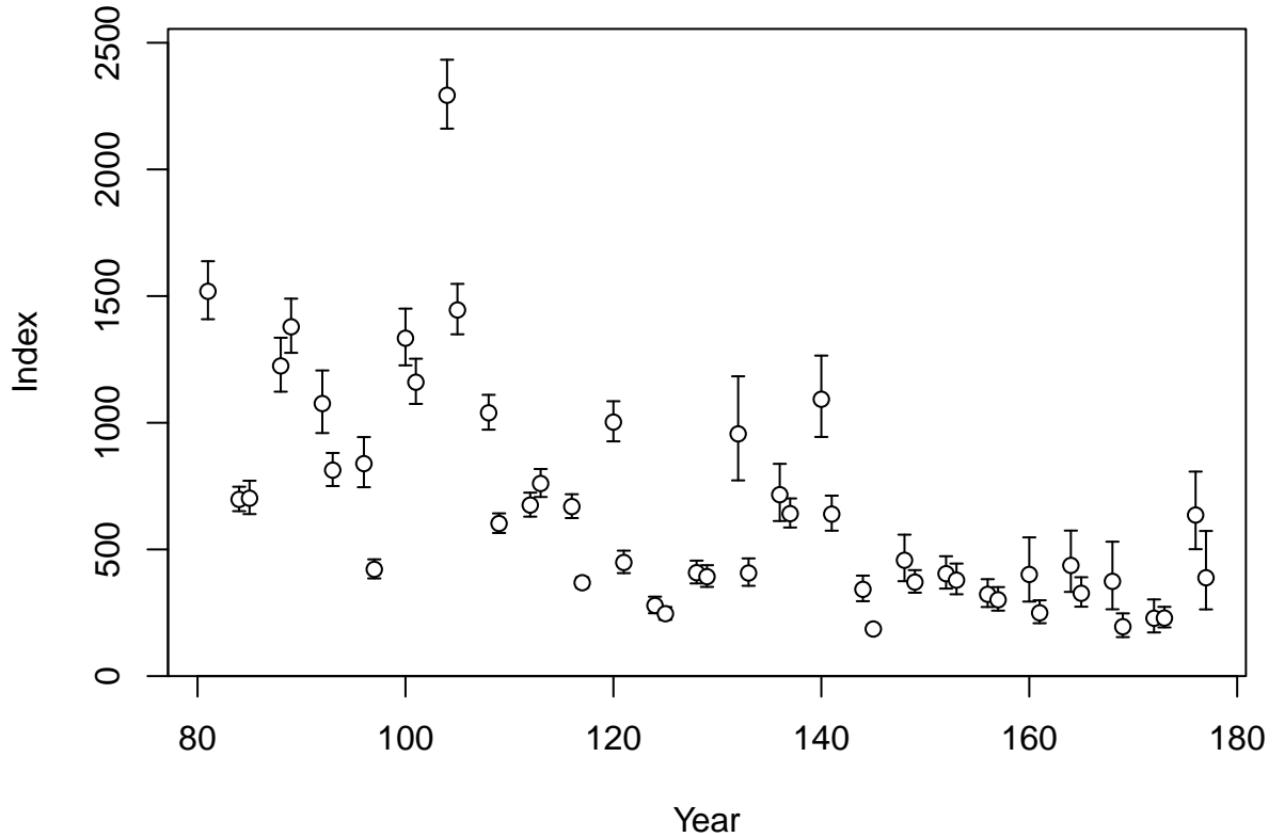


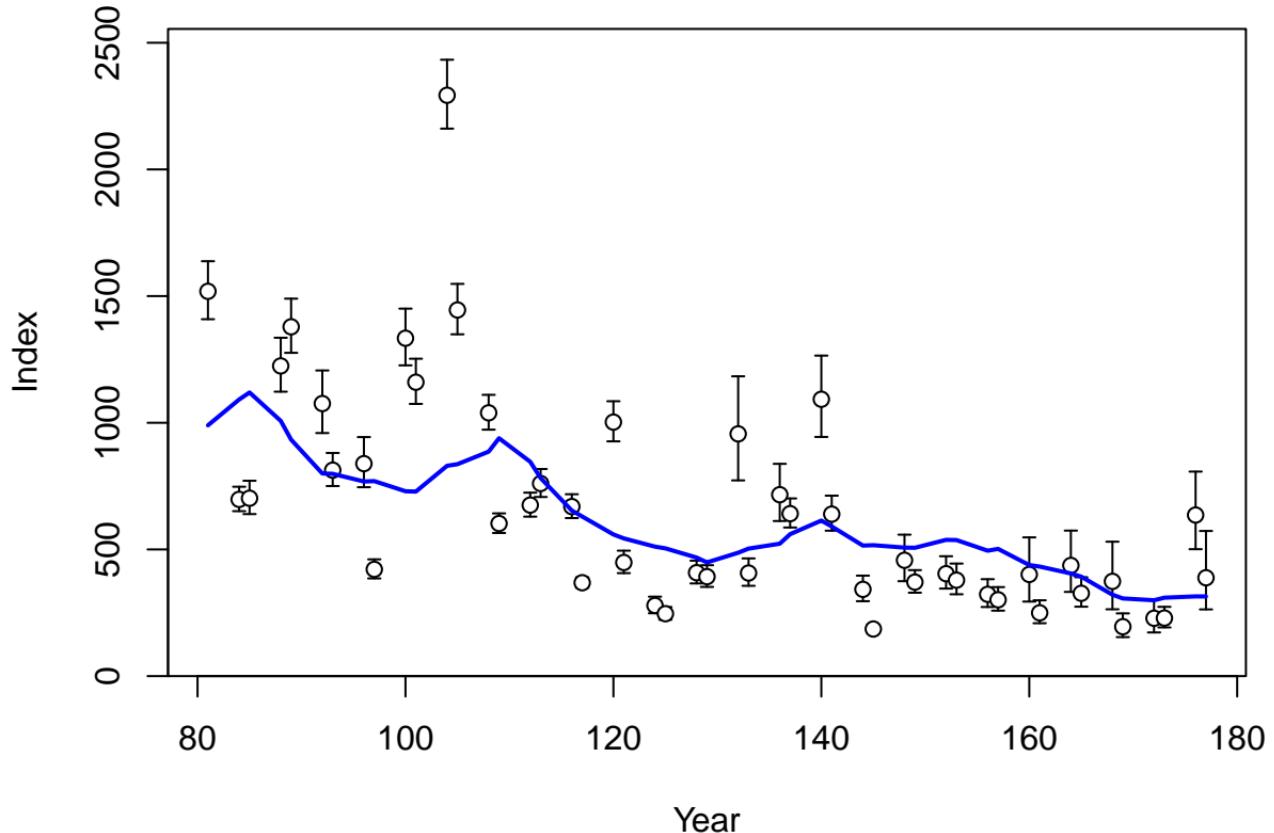


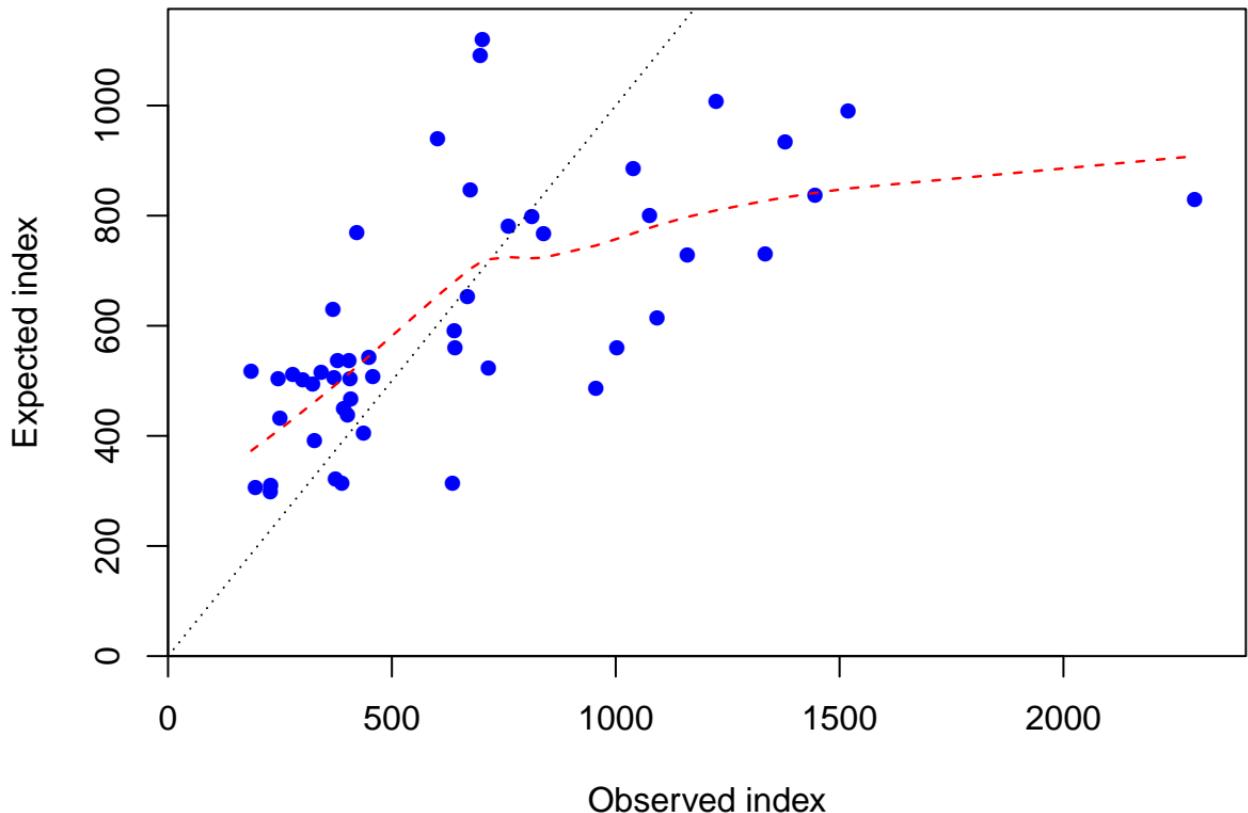


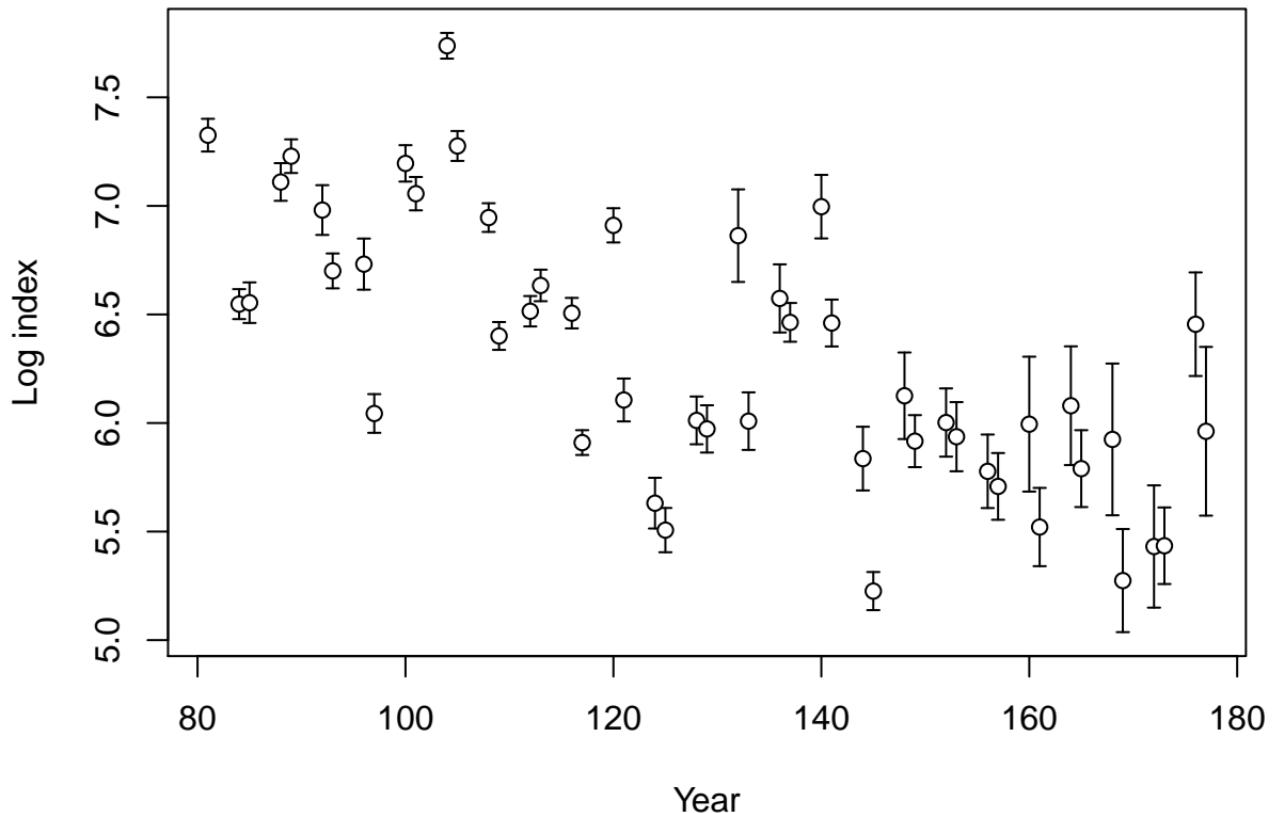


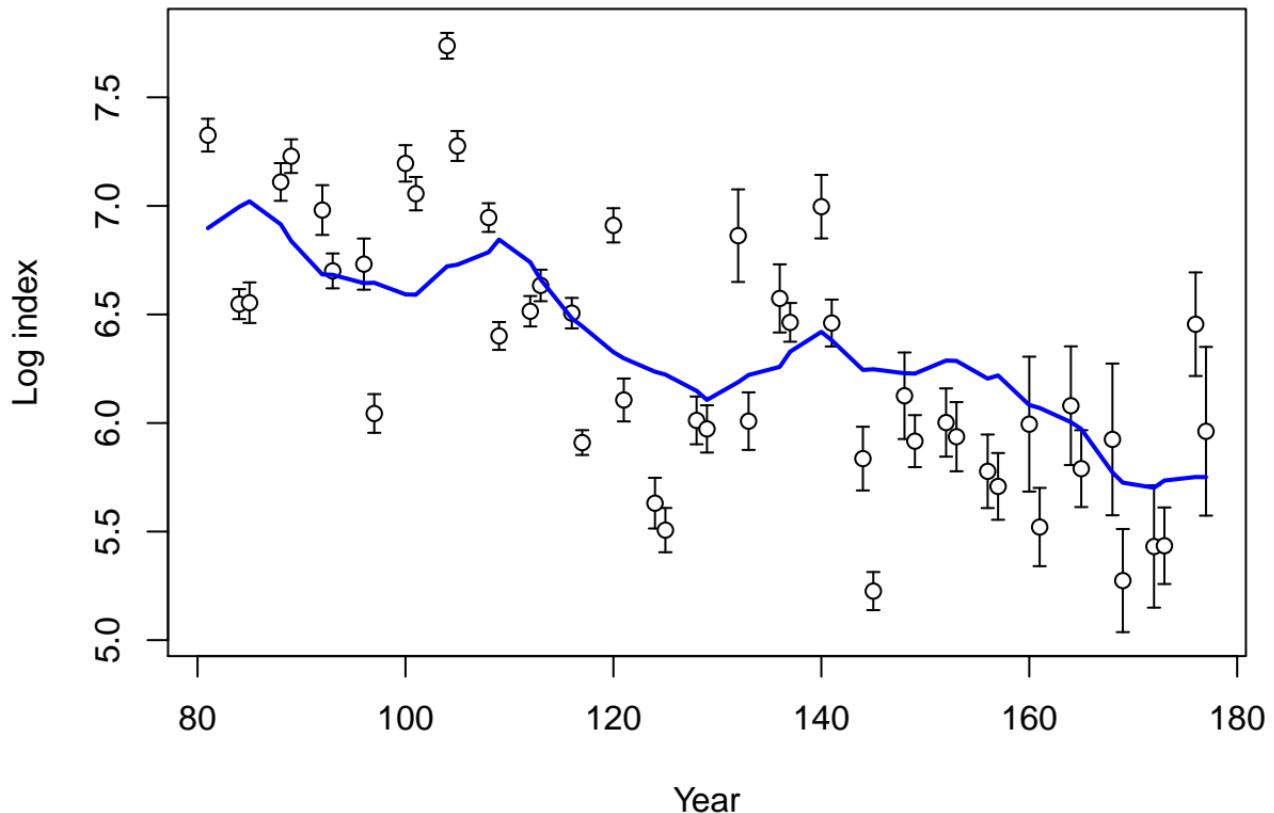


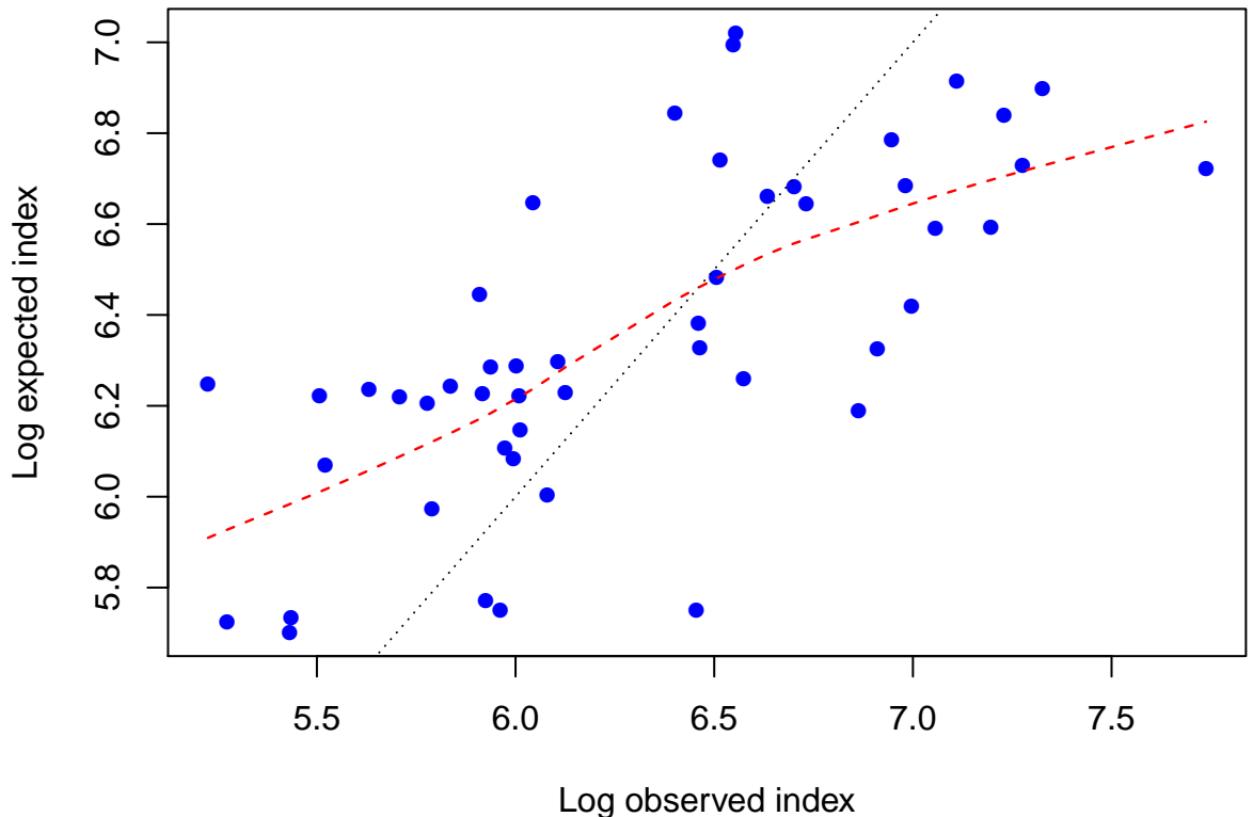


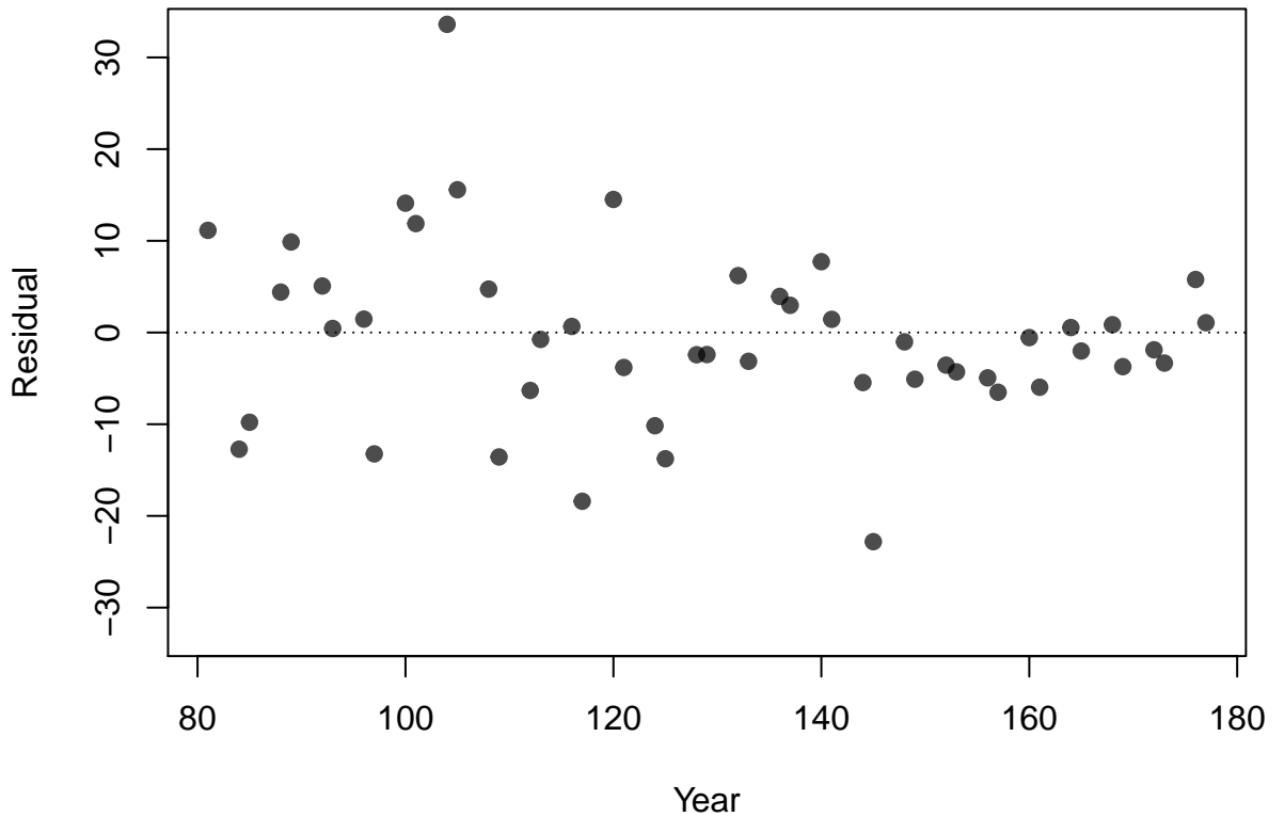


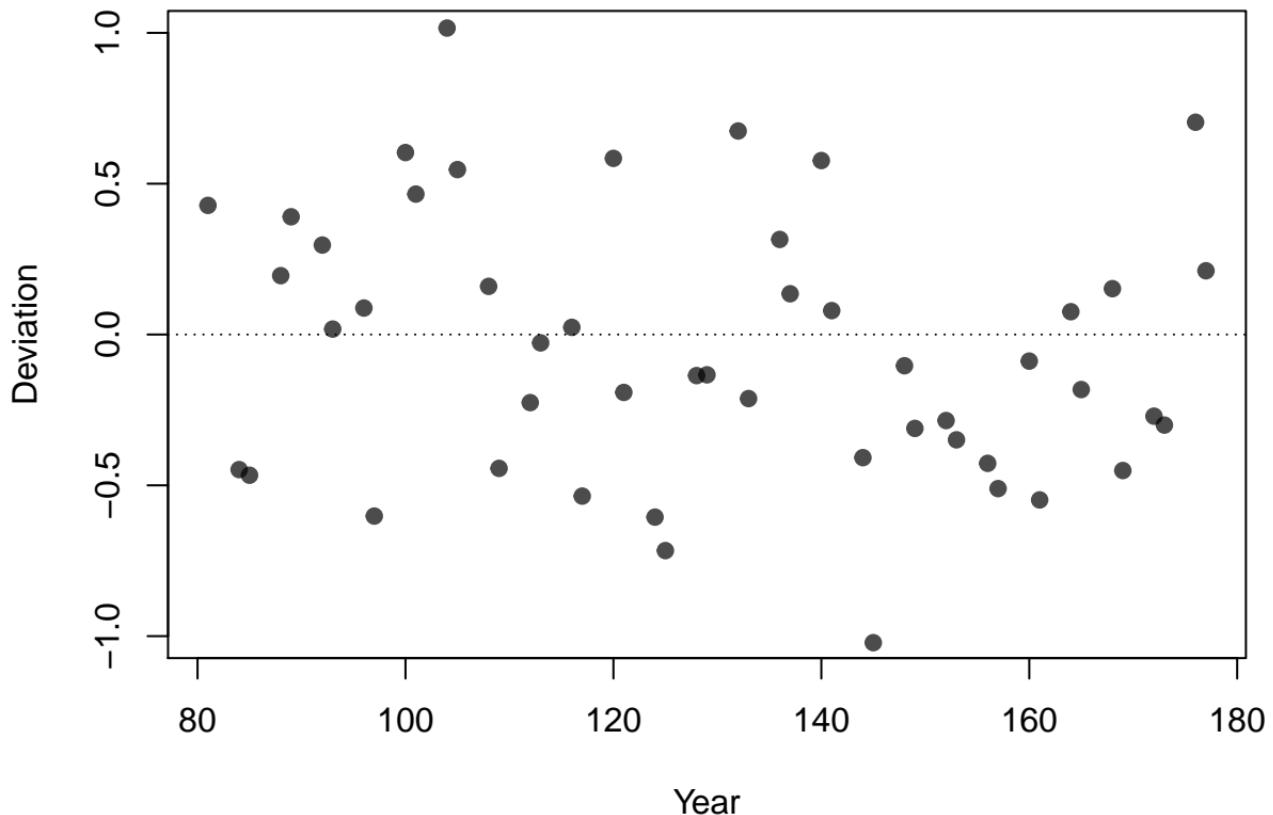


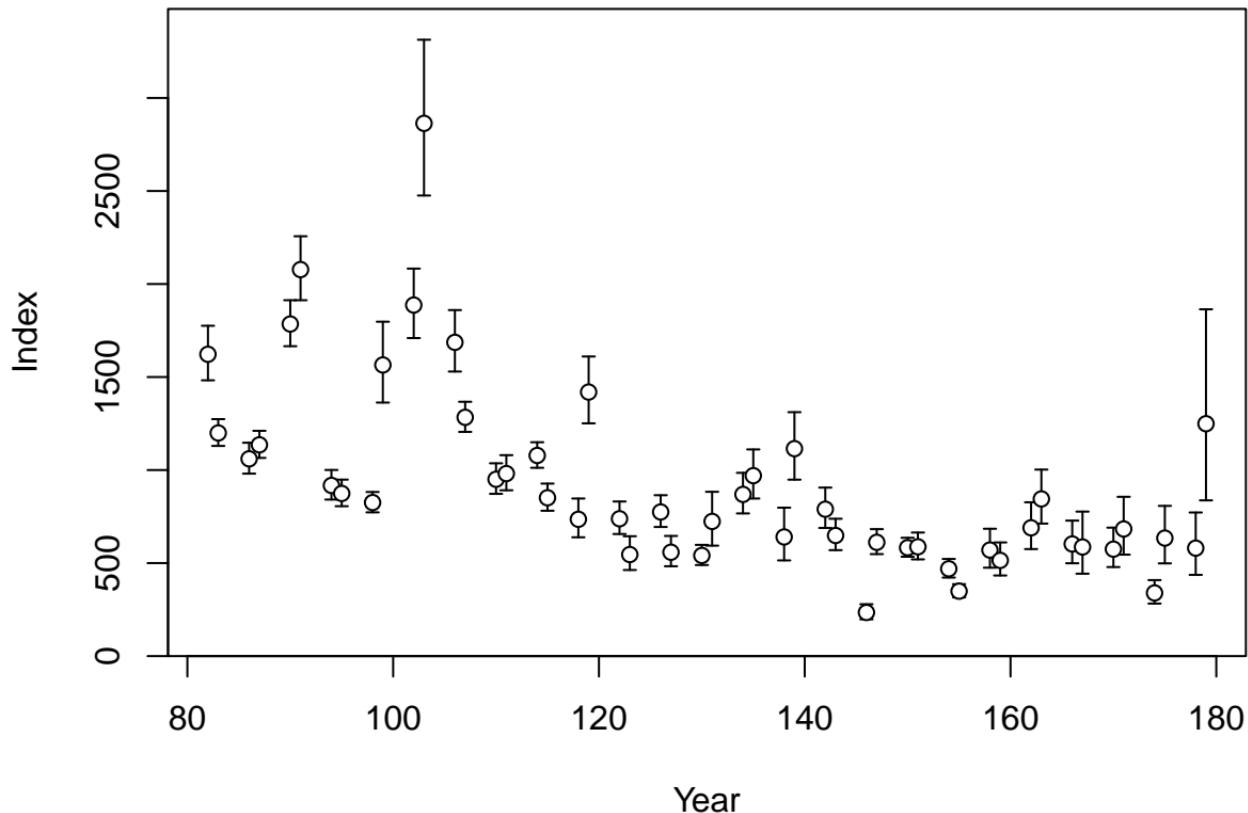


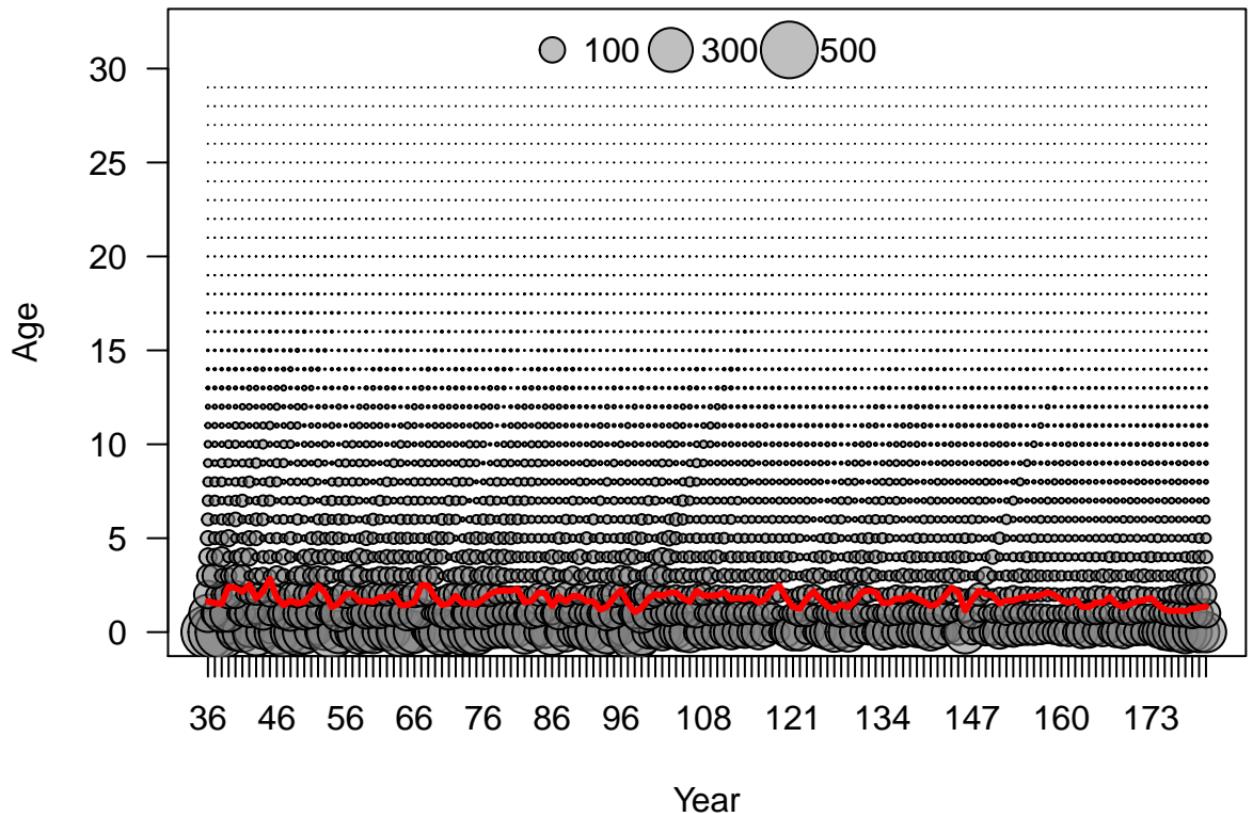


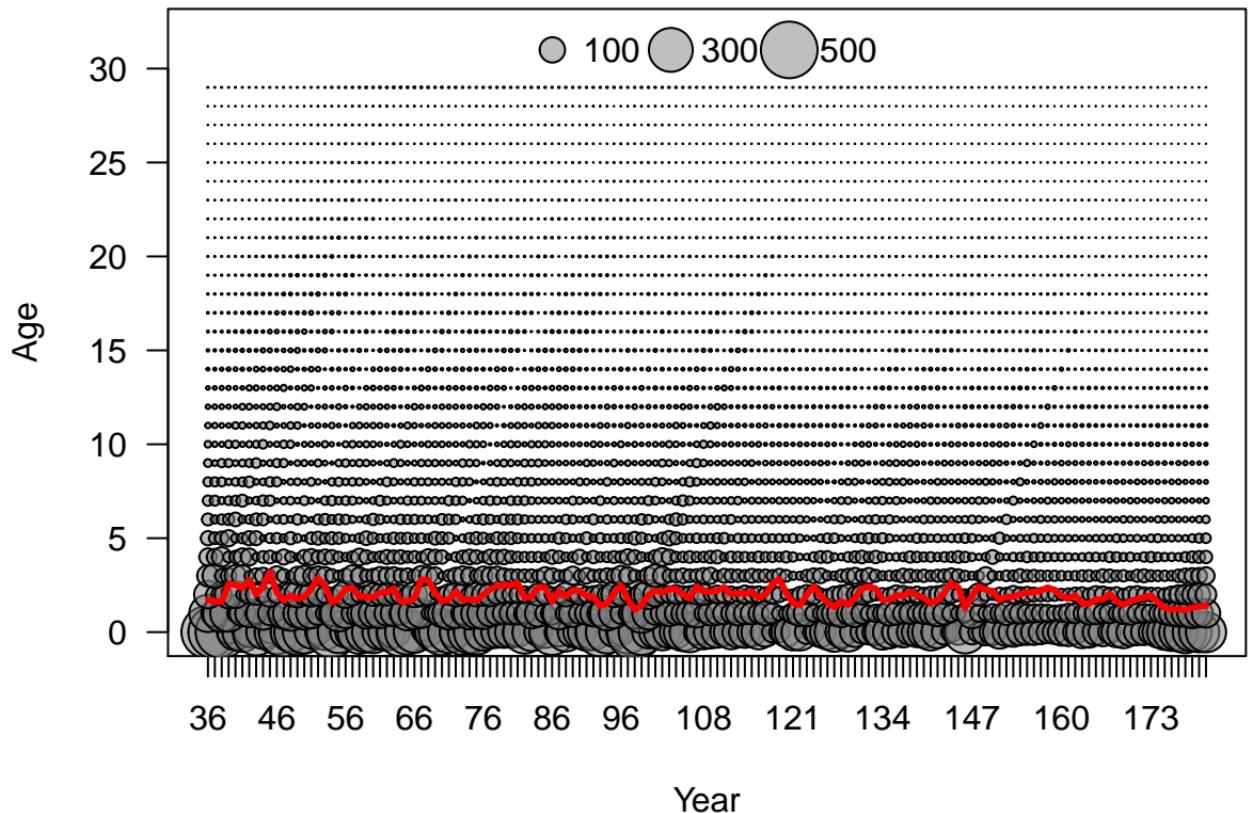


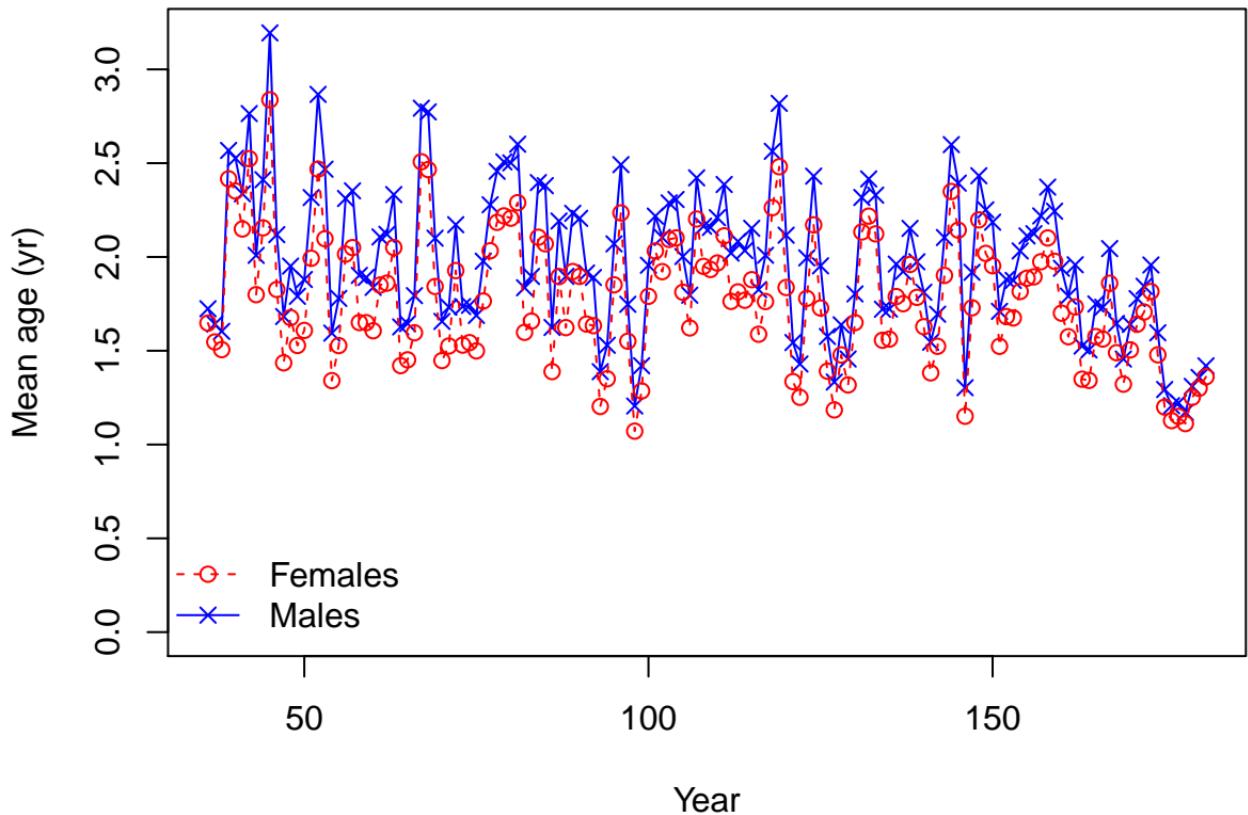


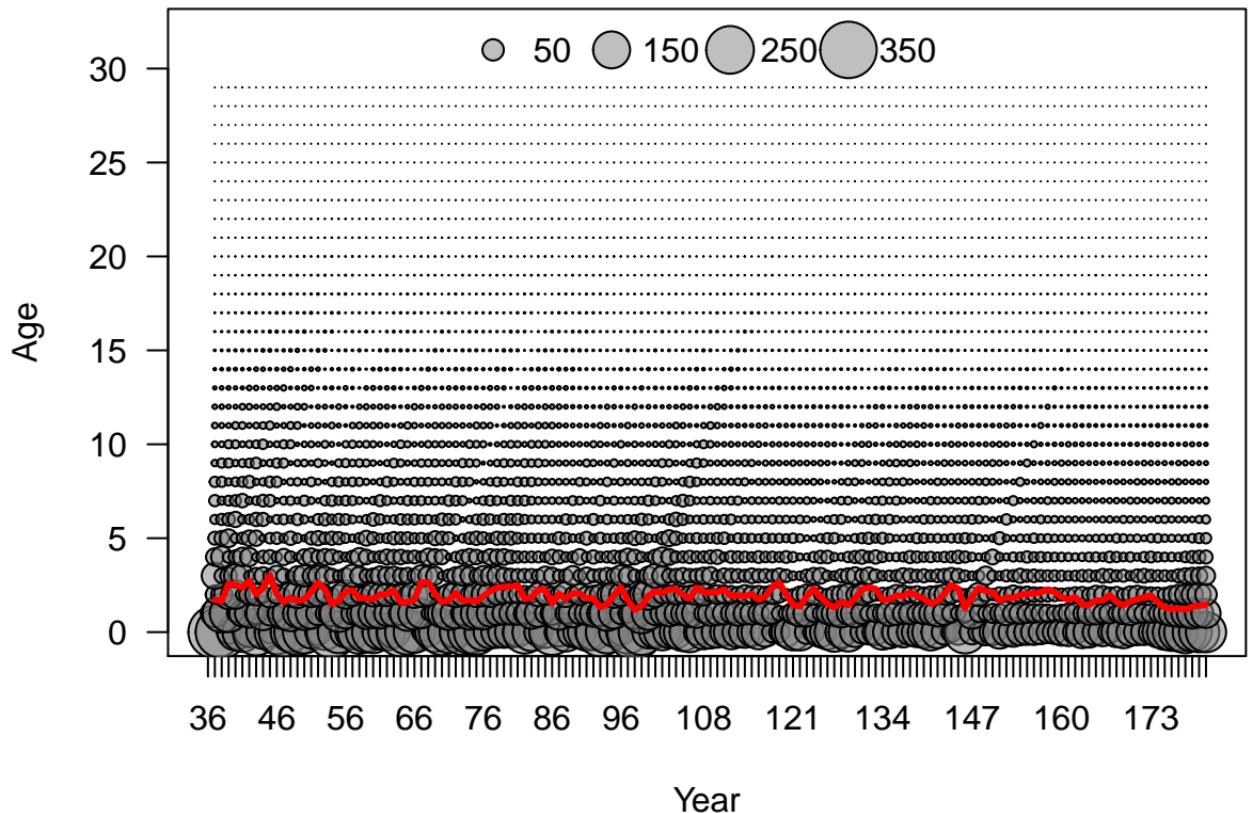


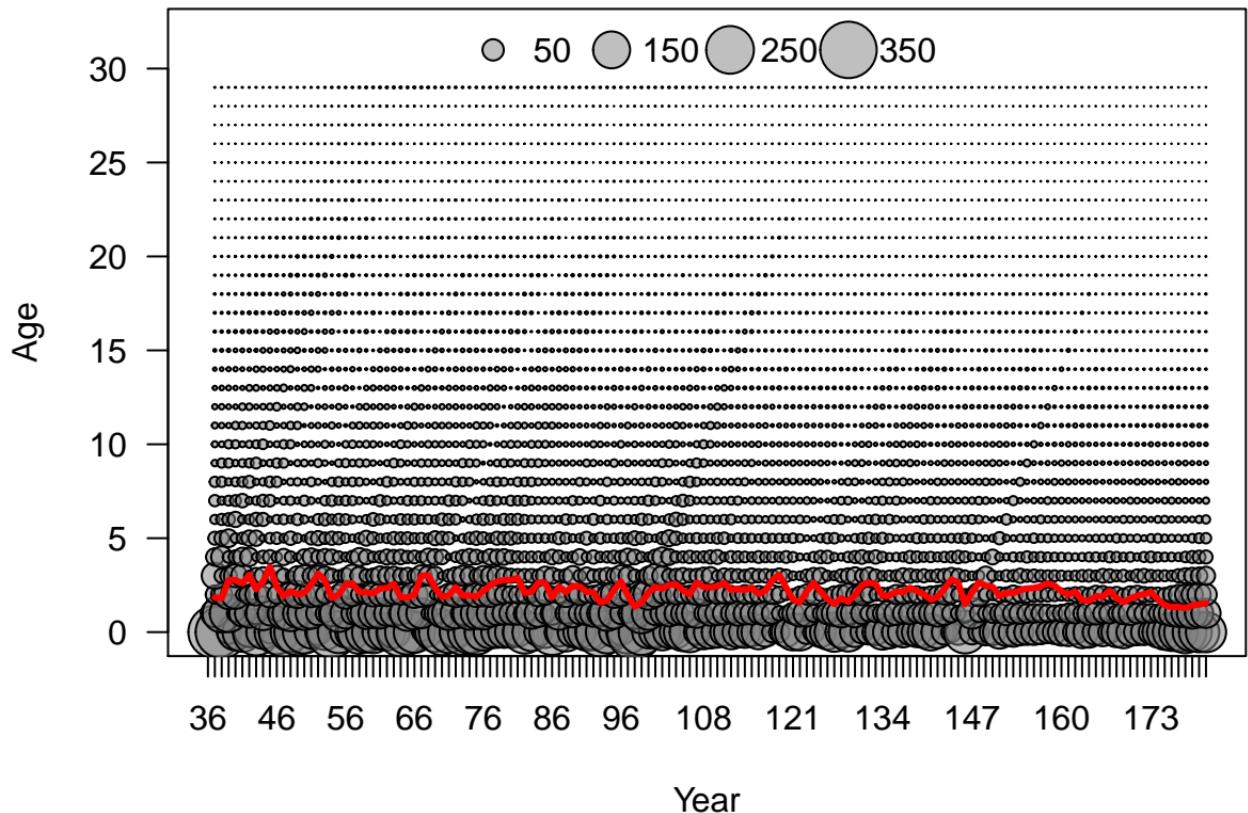


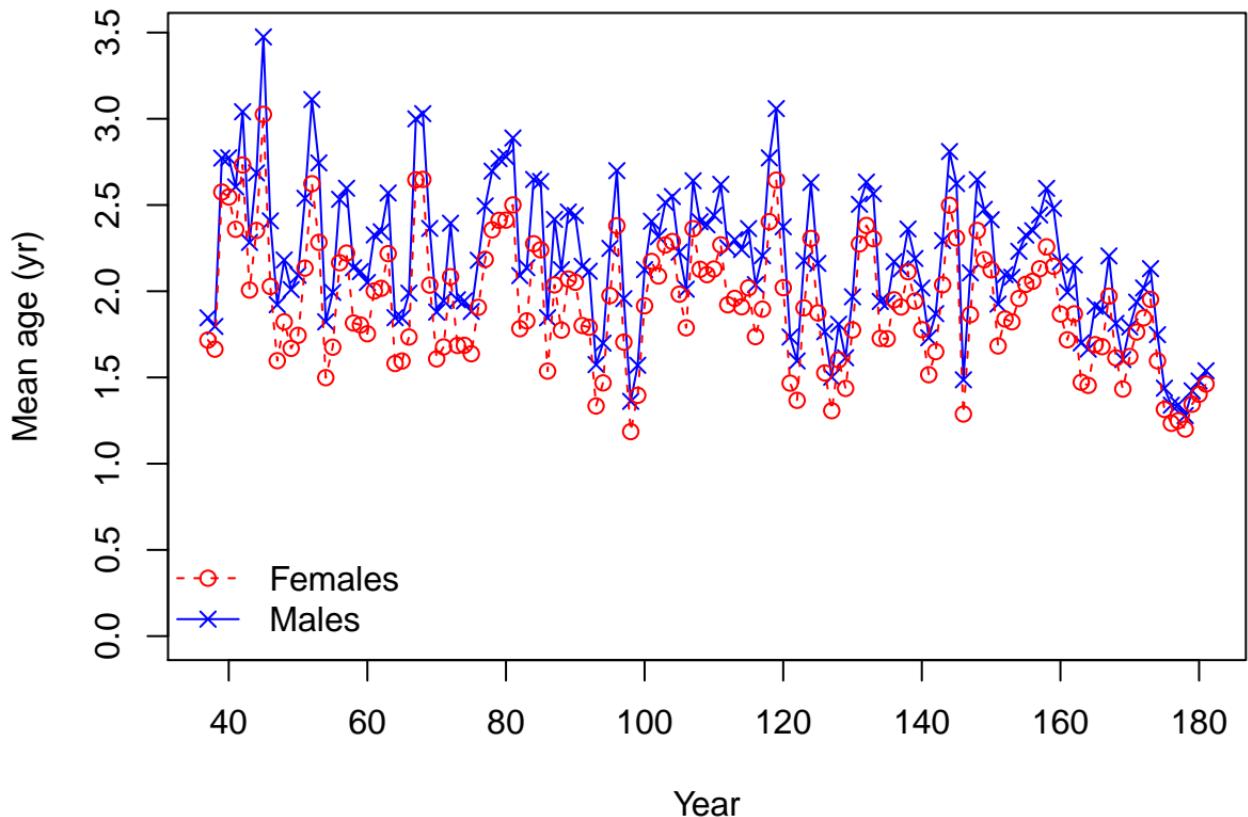


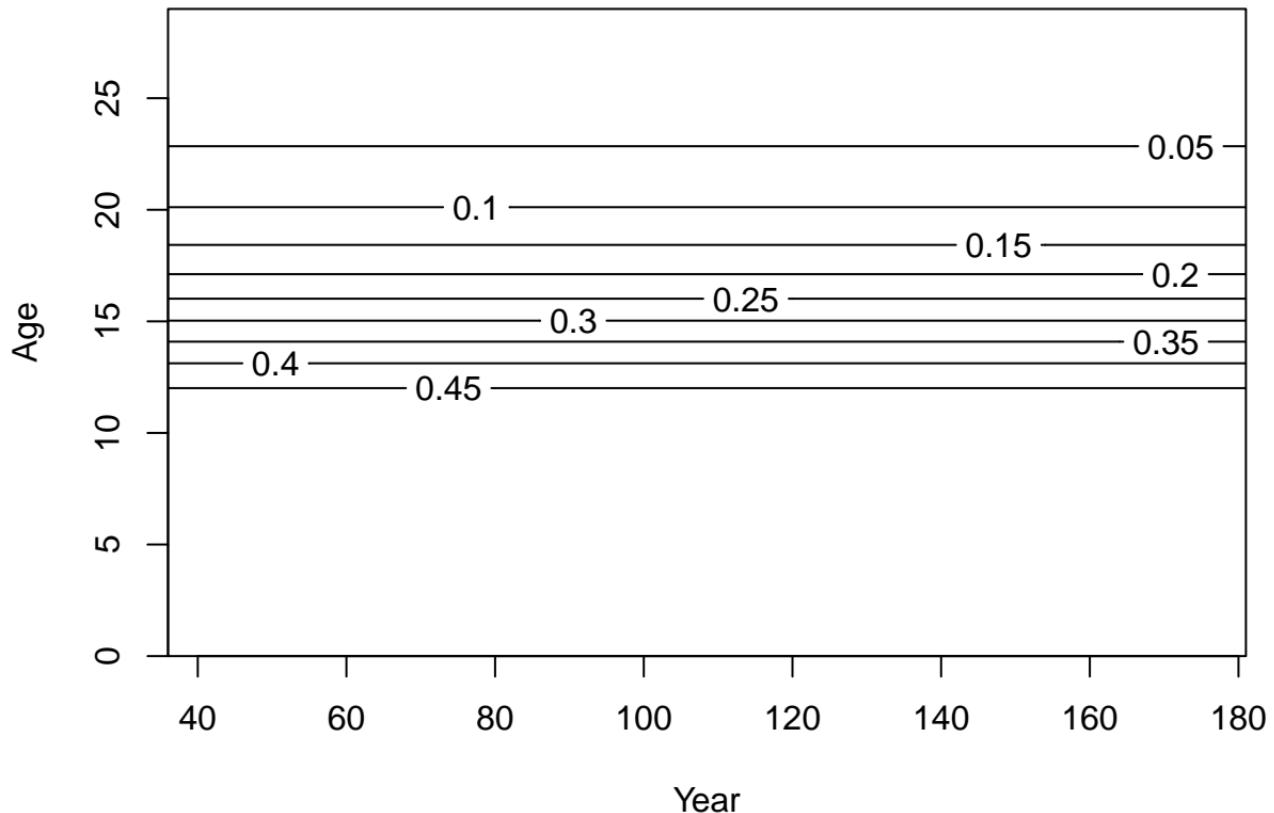


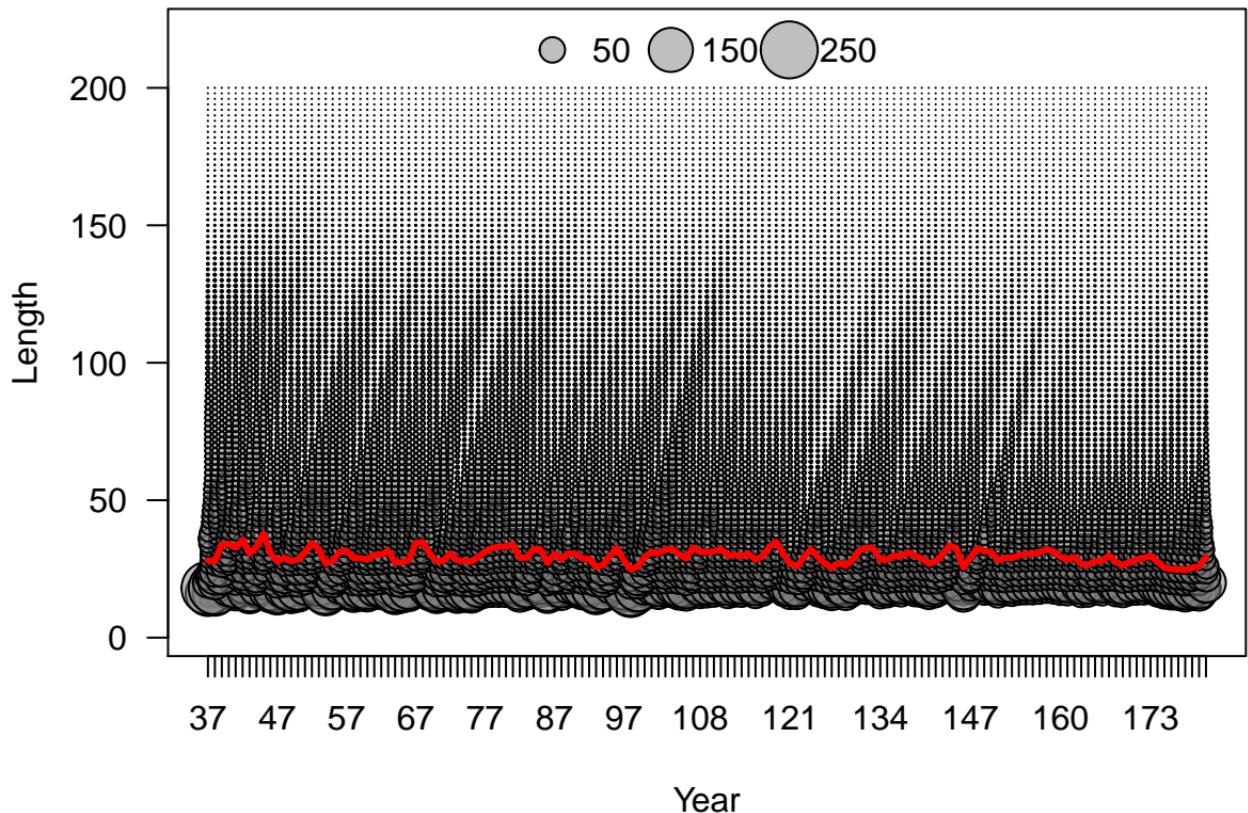


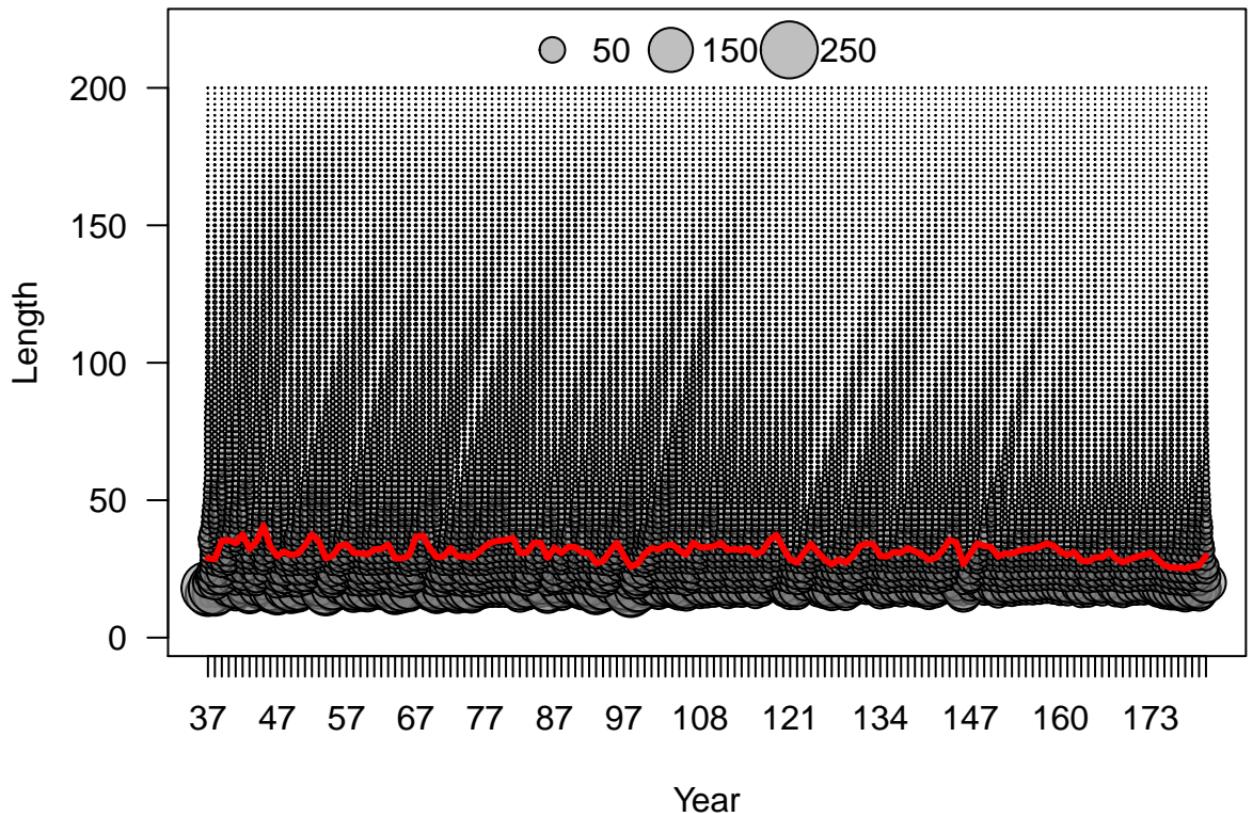


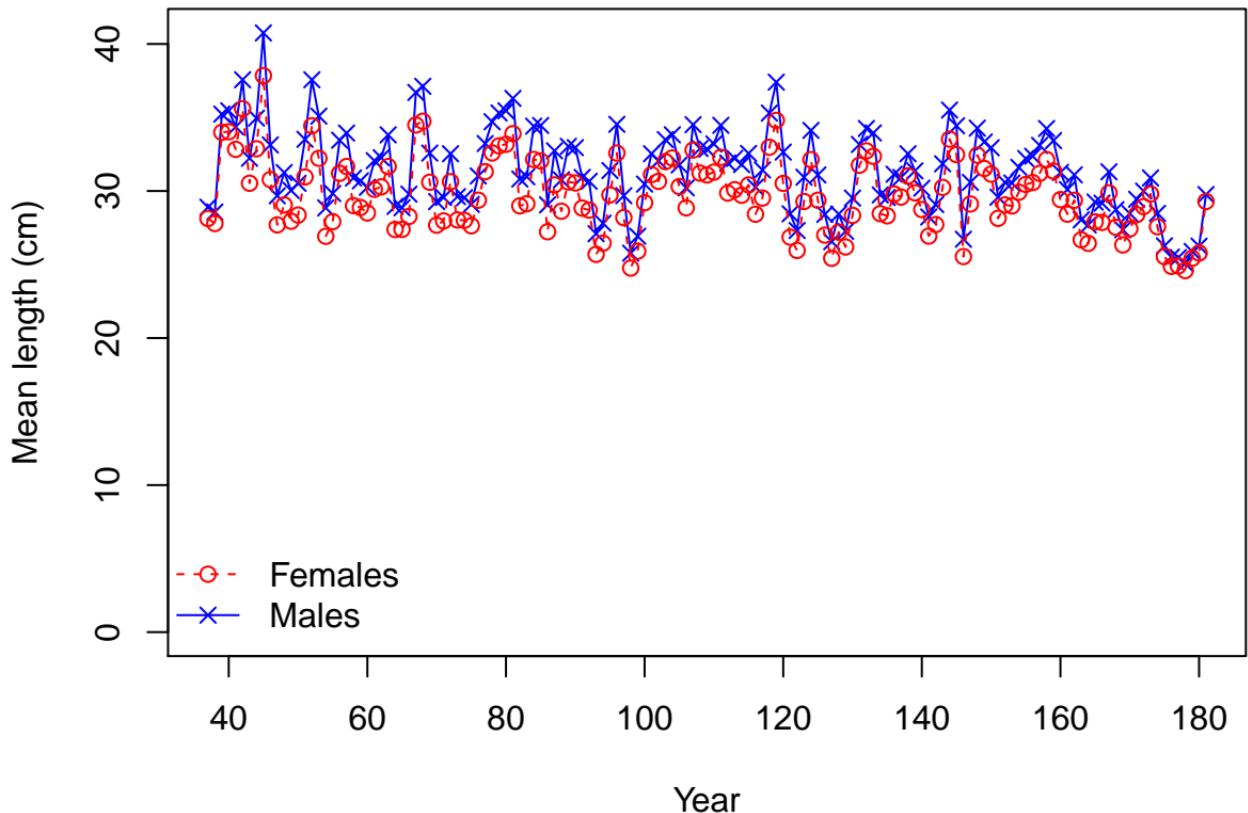


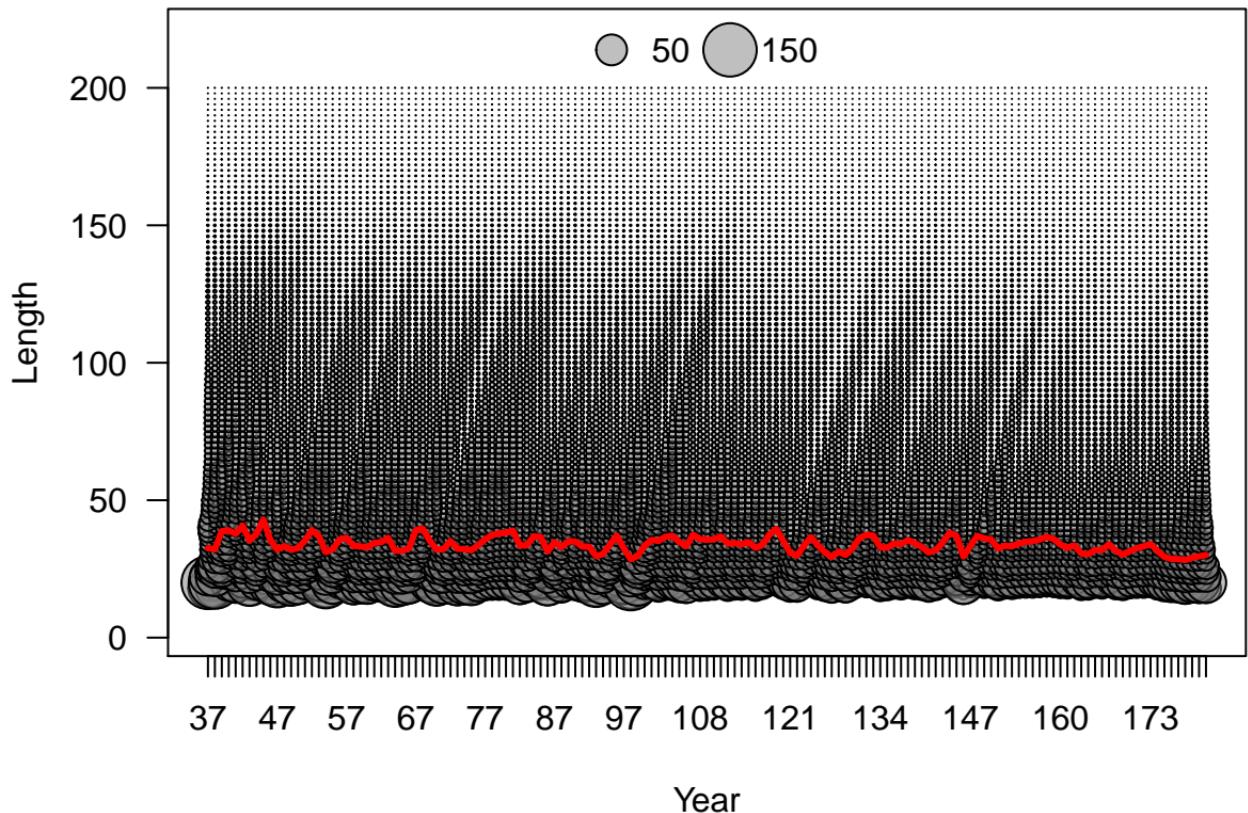


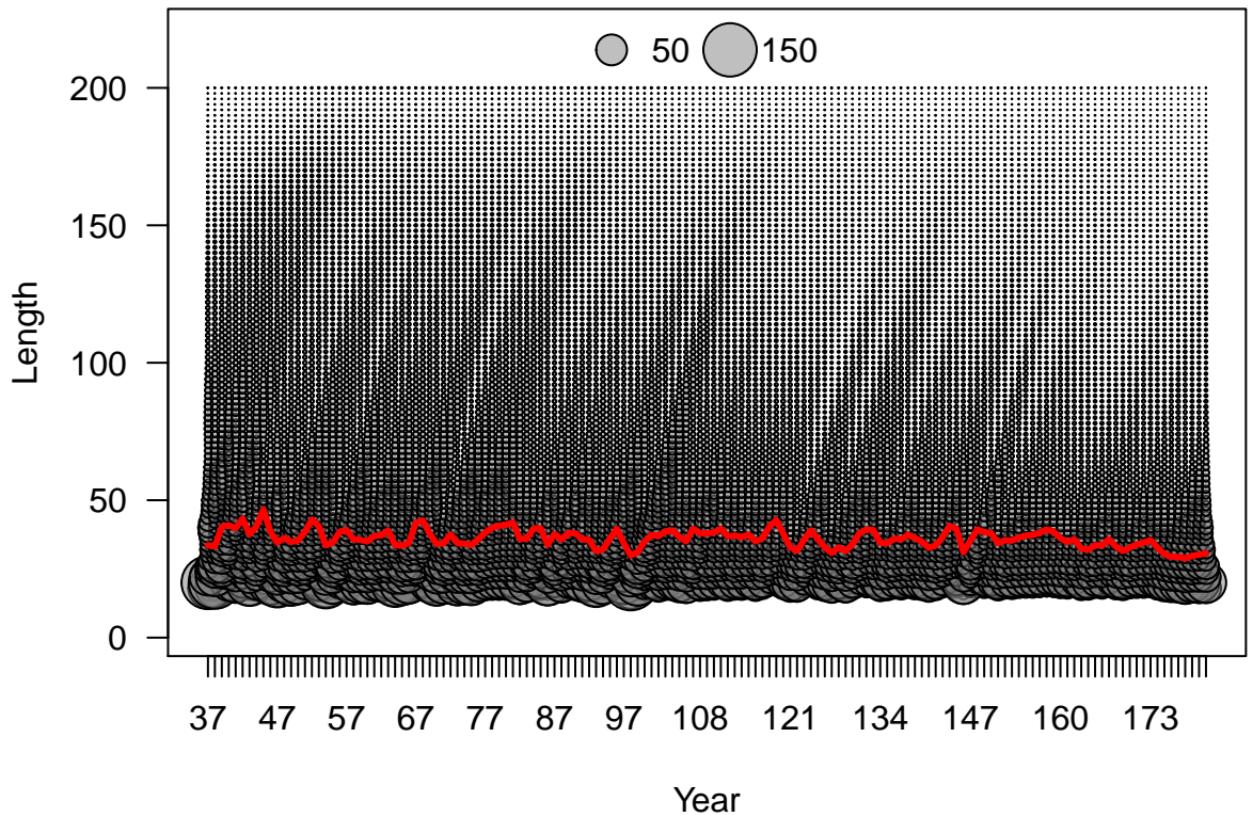


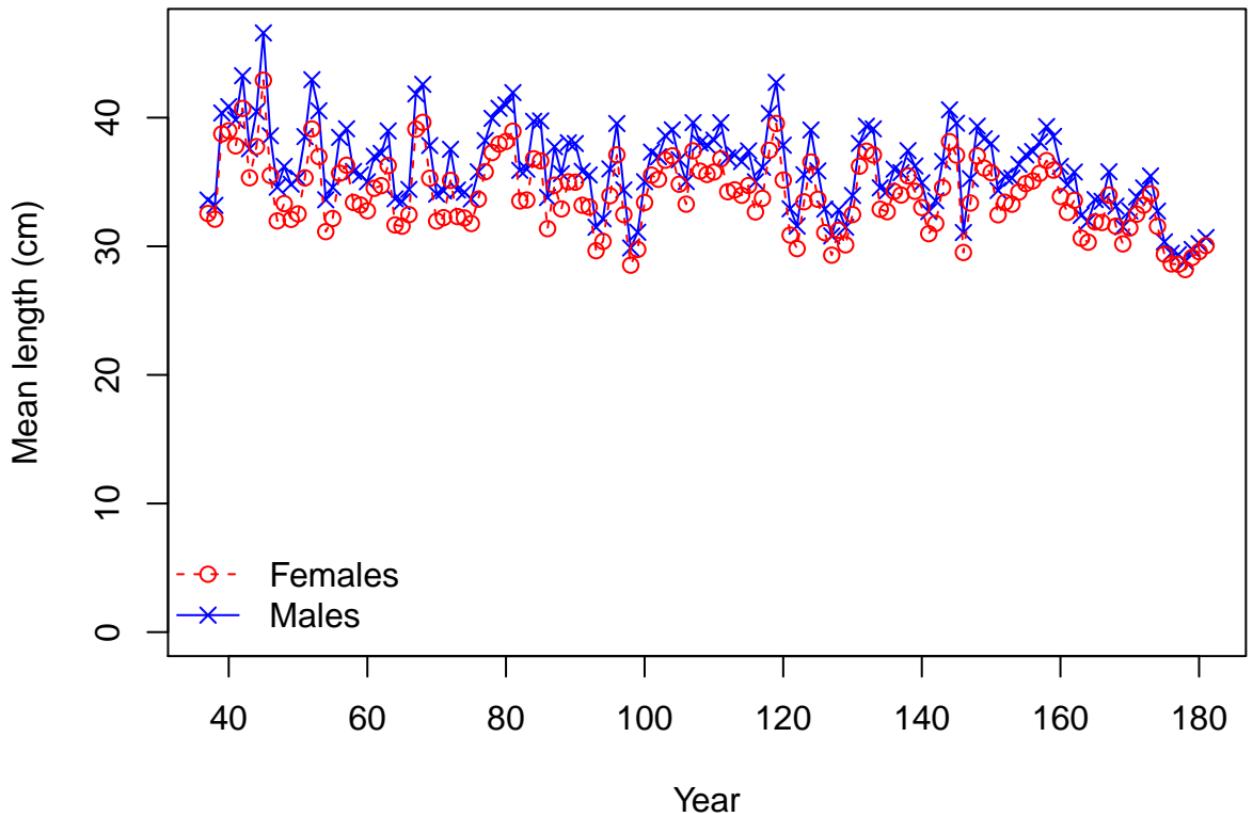


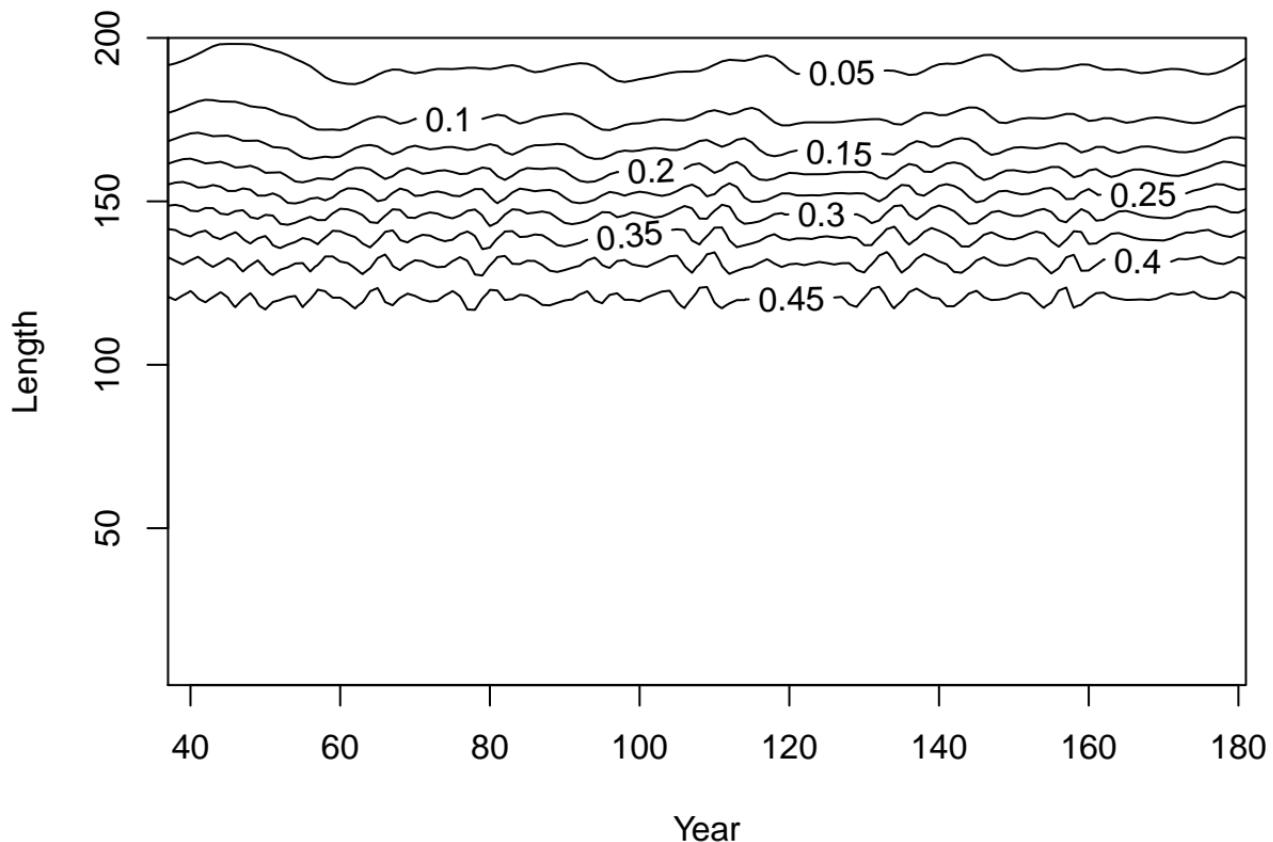




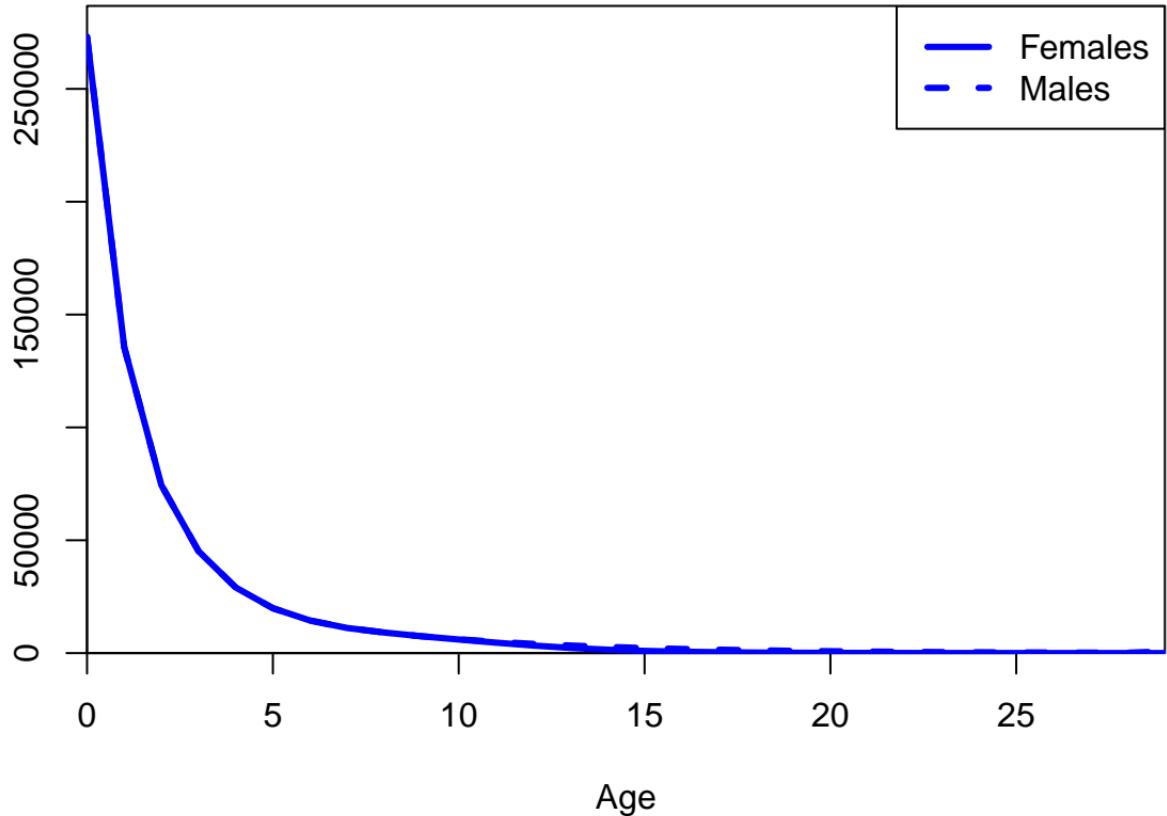


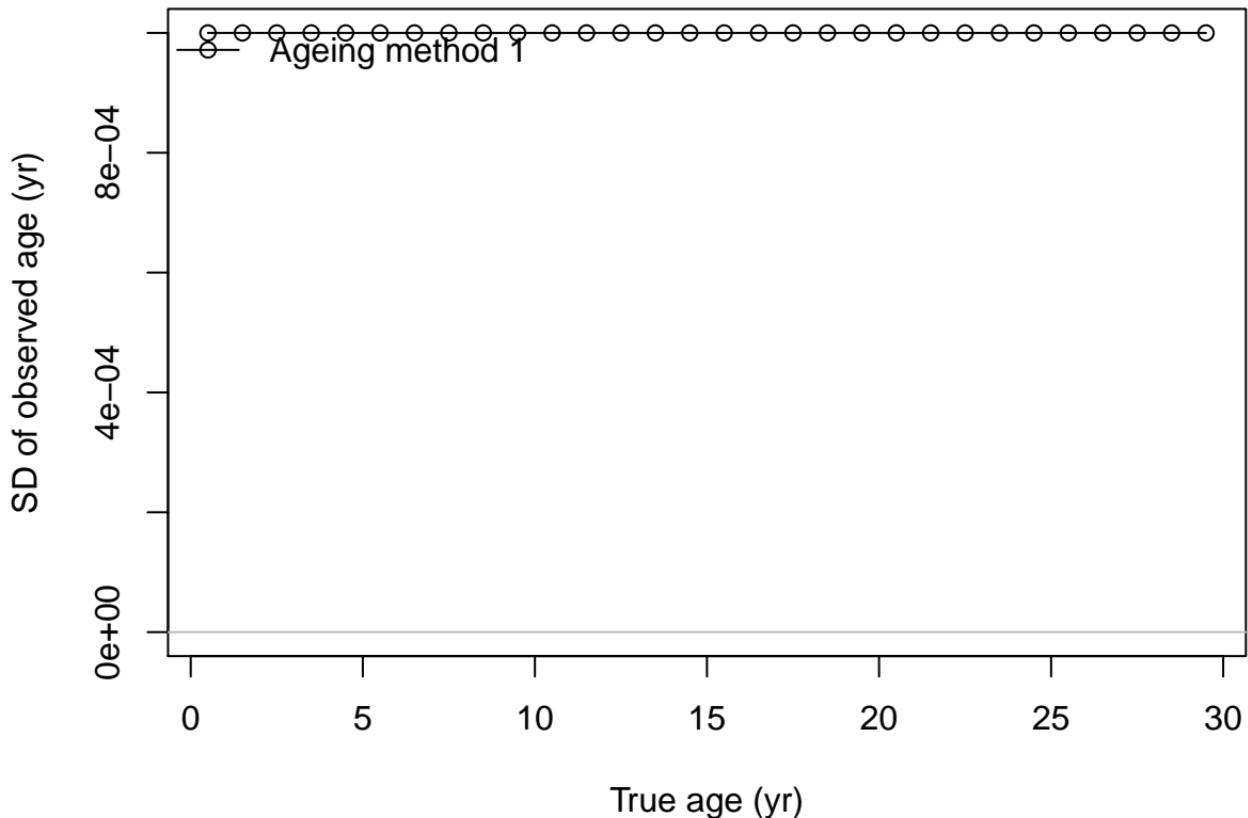


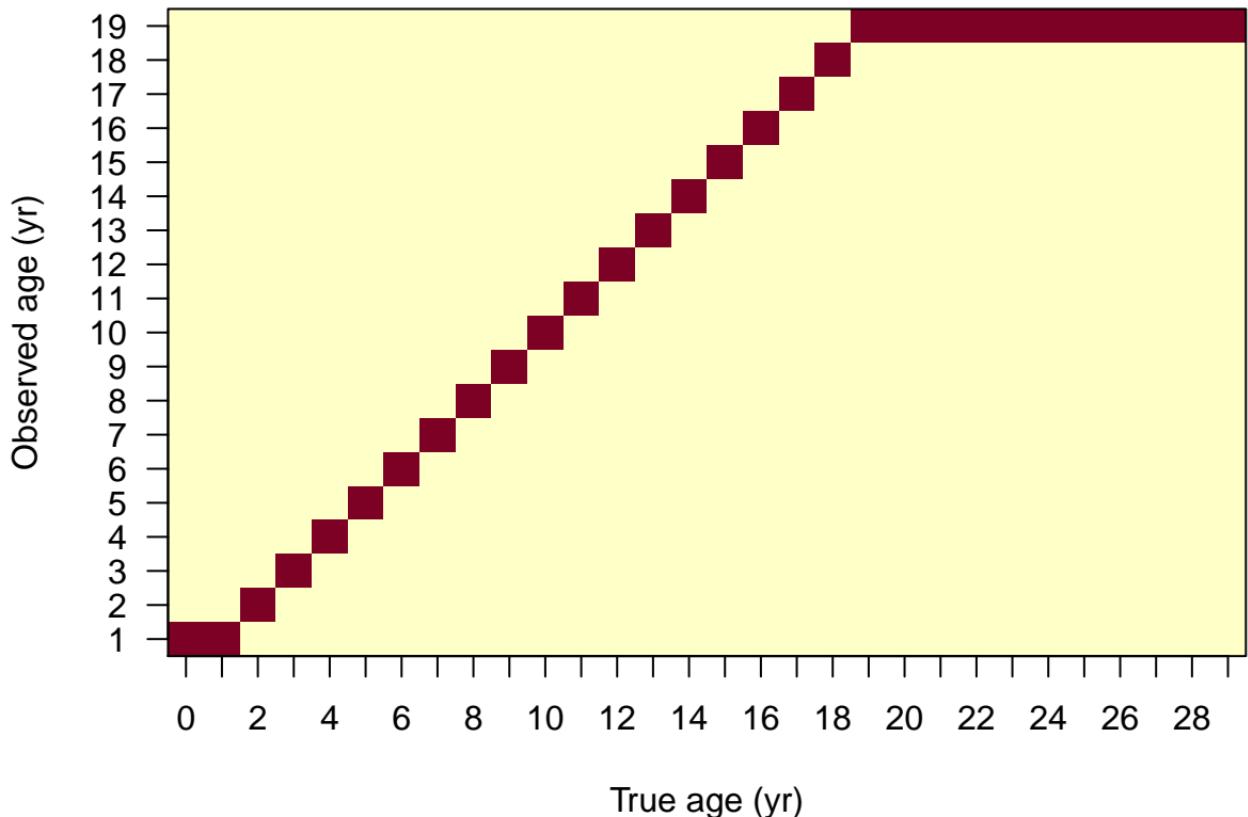


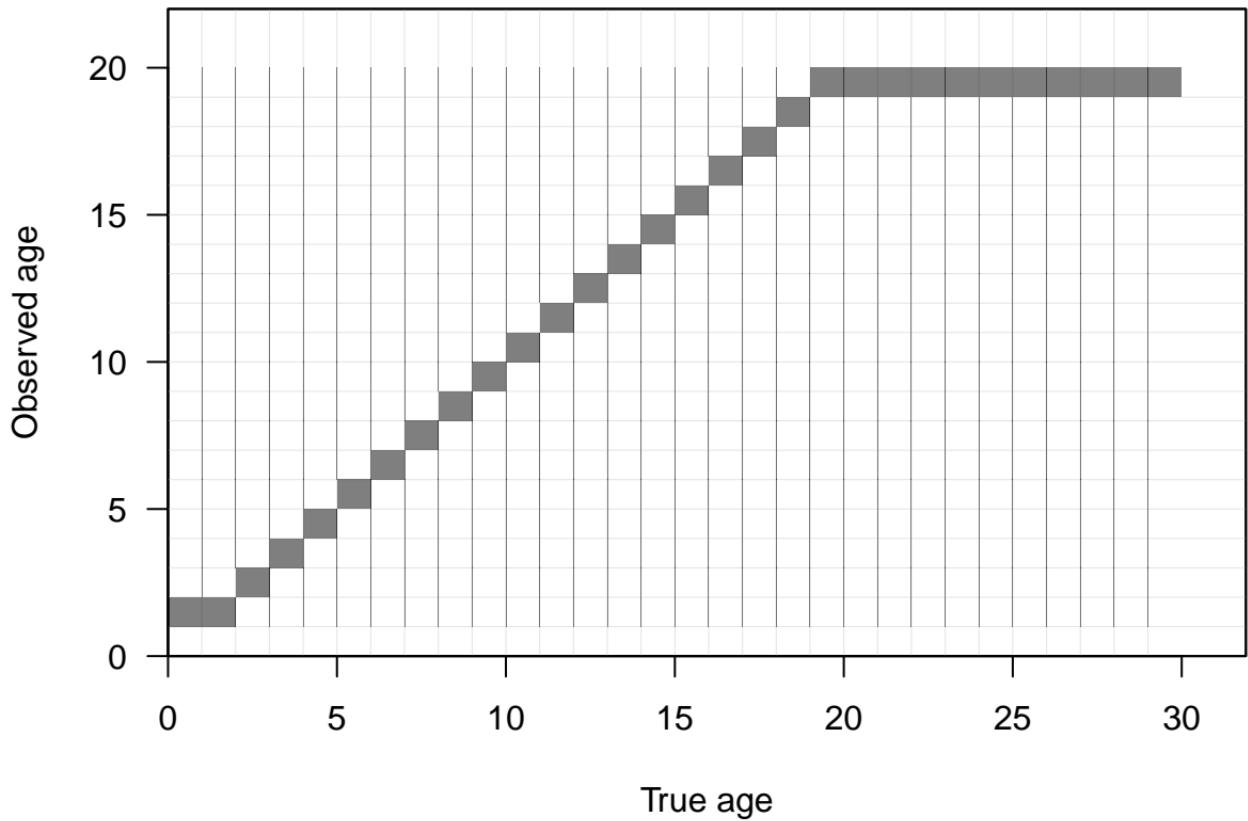


Numbers at age at equilibrium

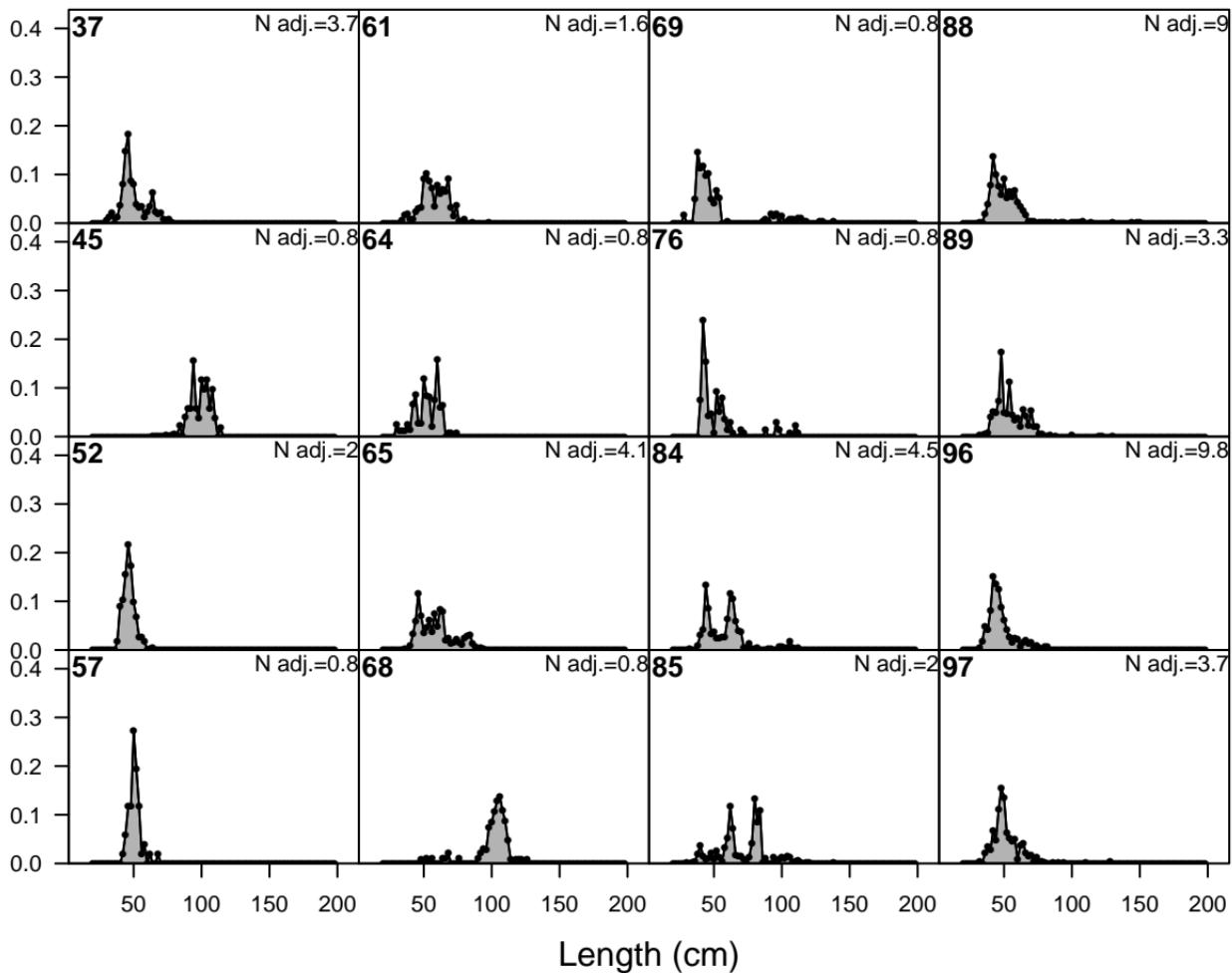




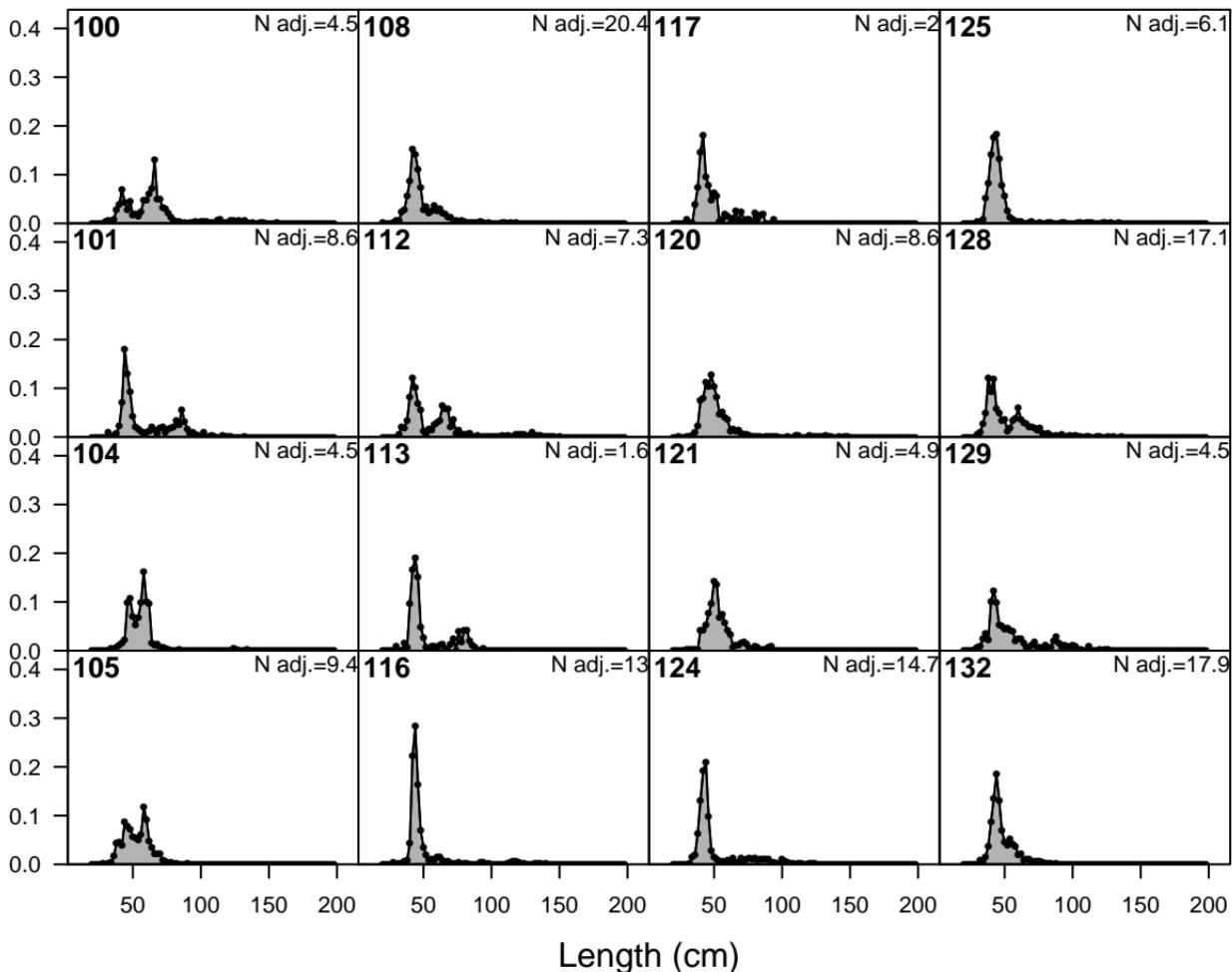




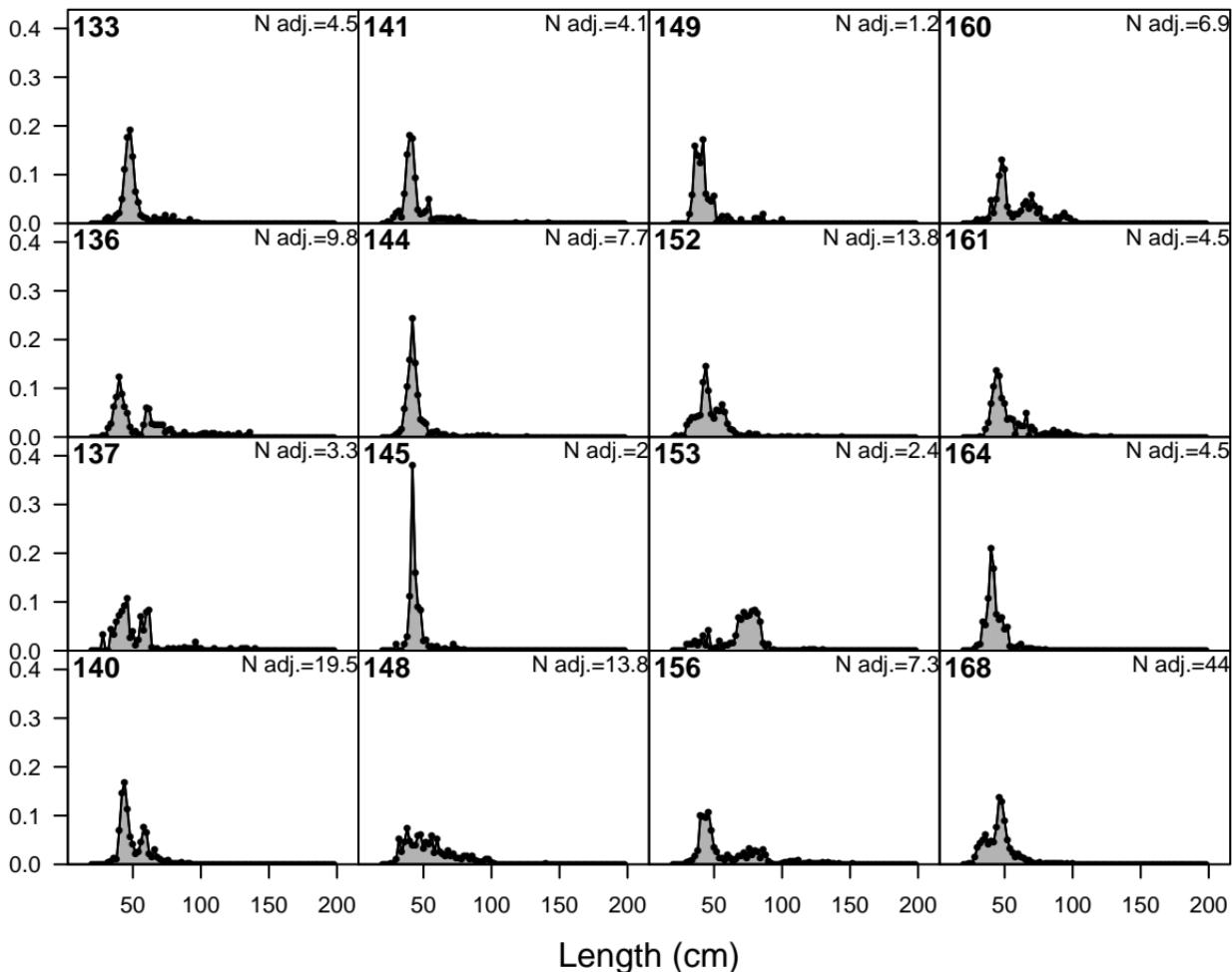
Proportion

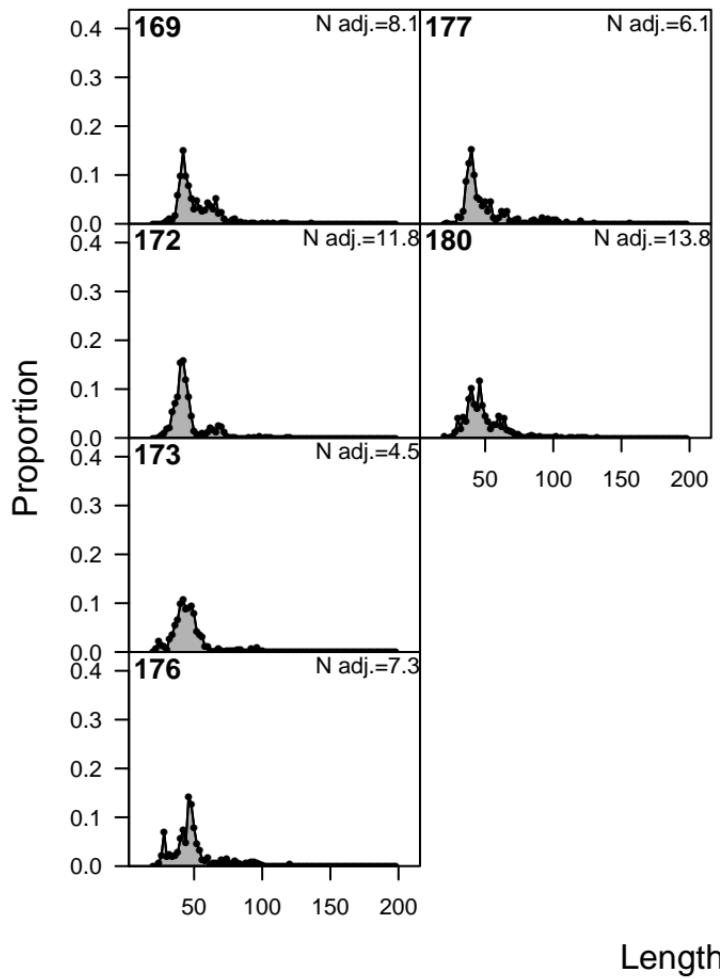


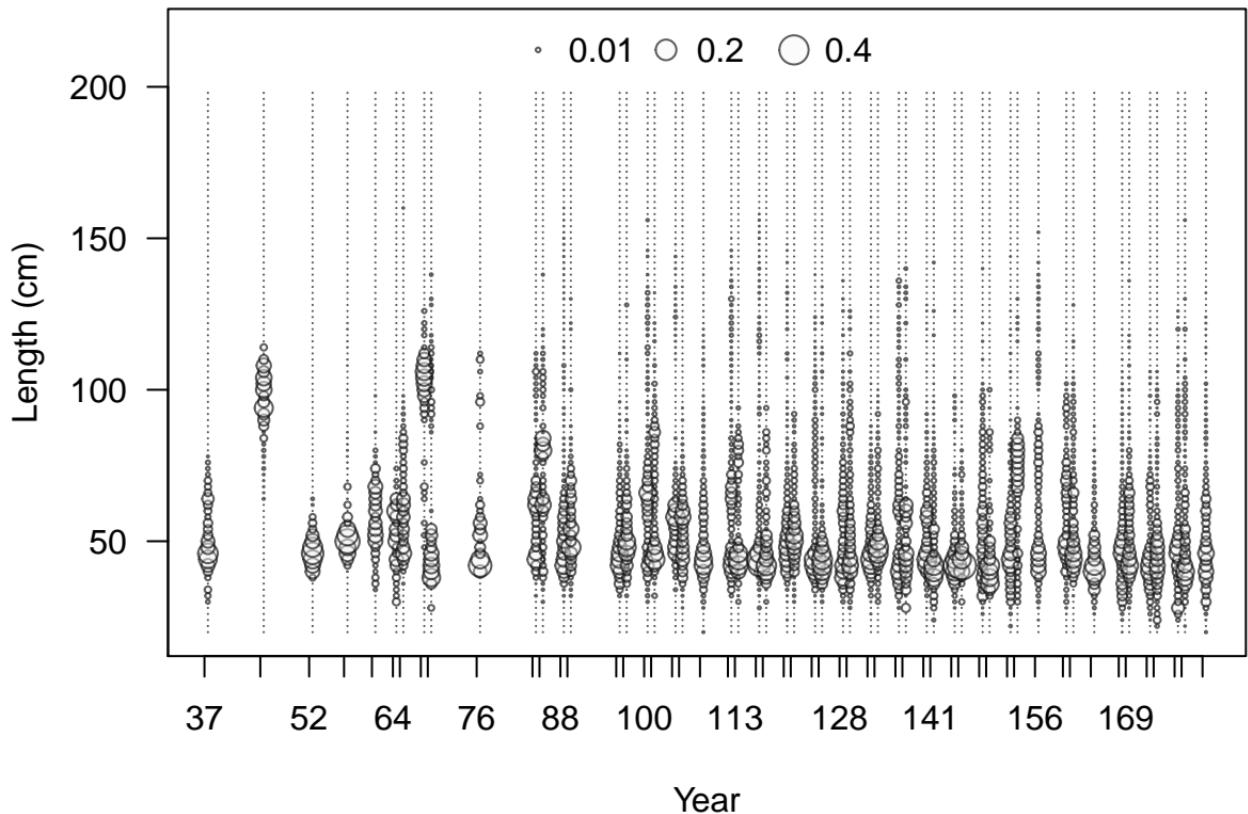
Proportion



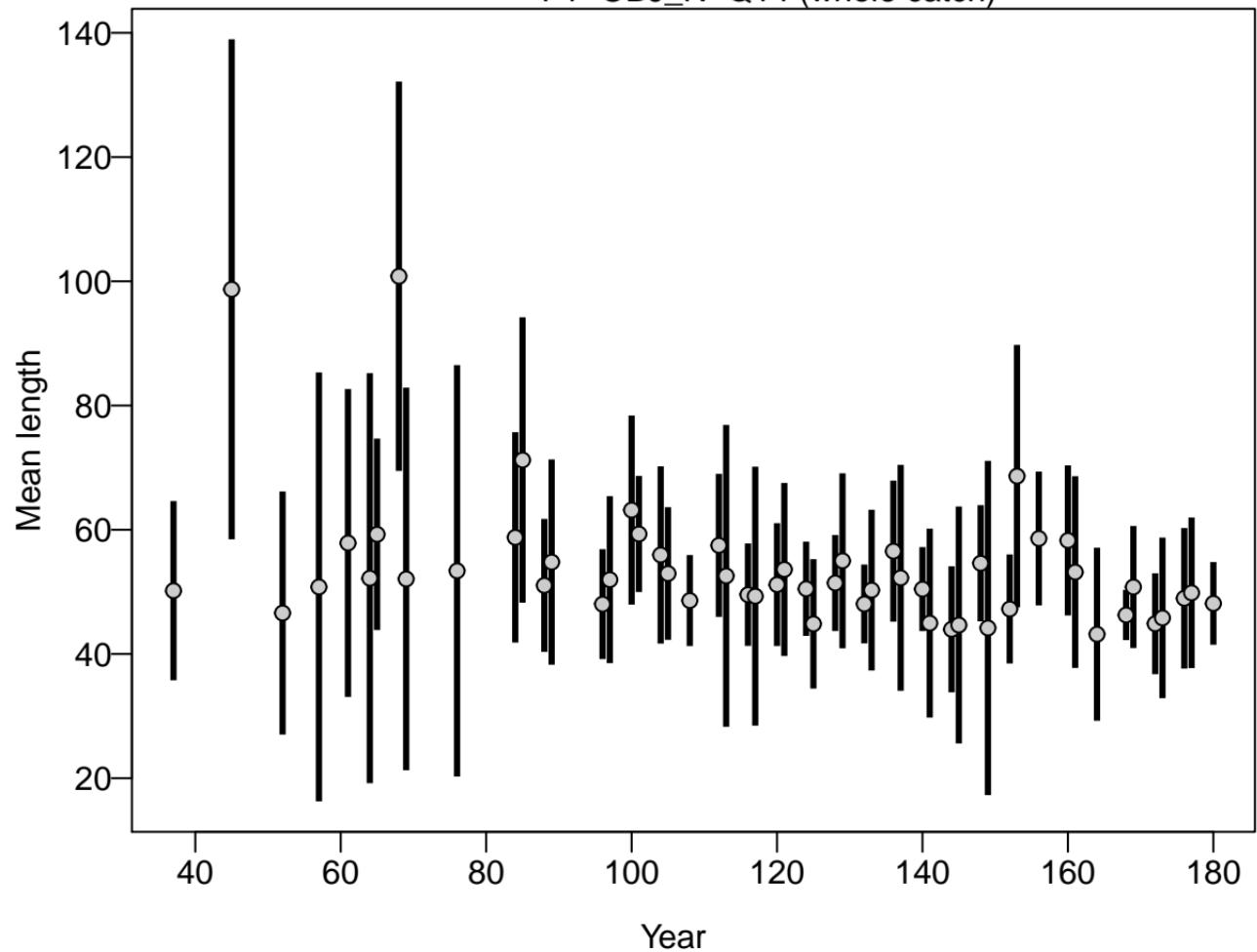
Proportion

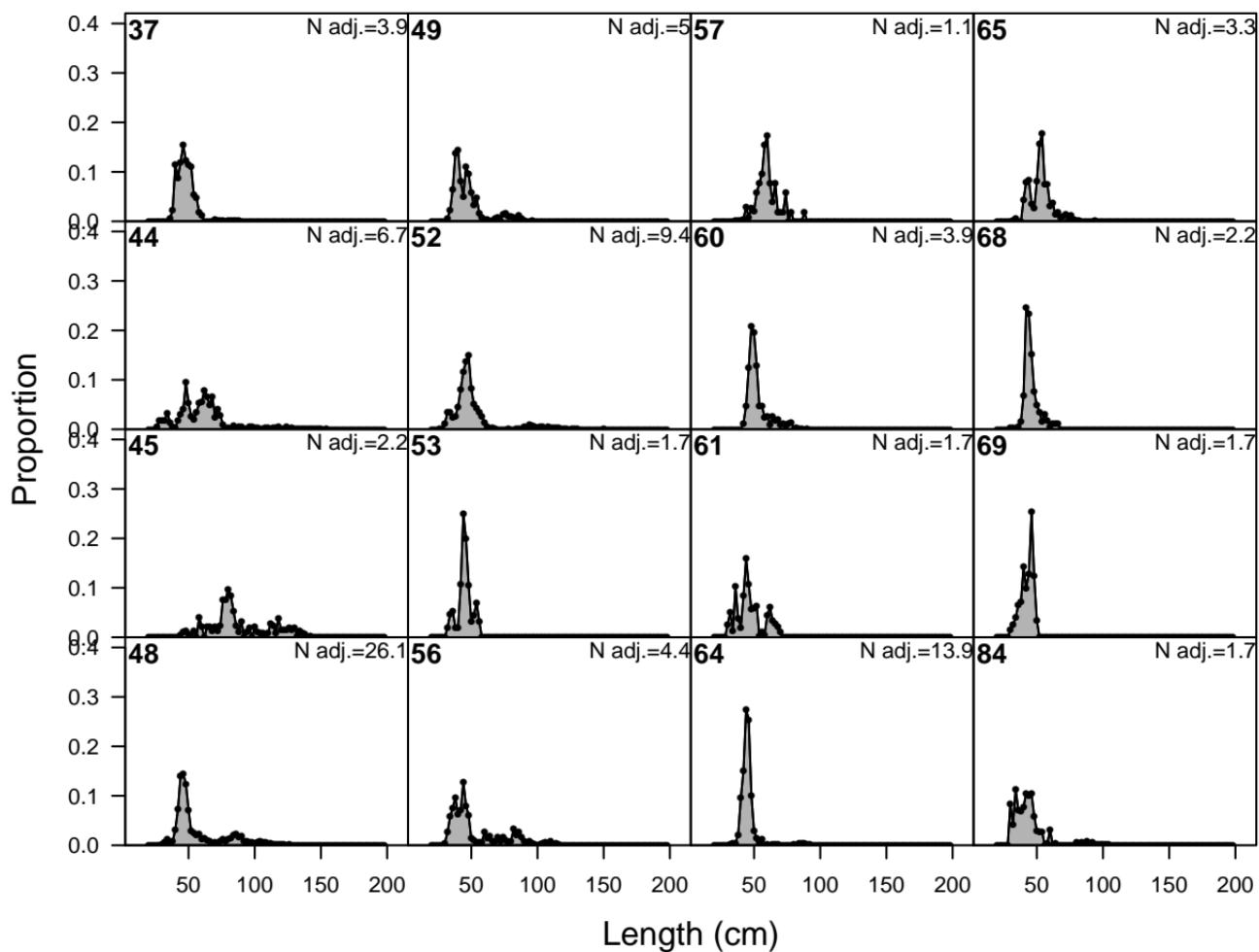




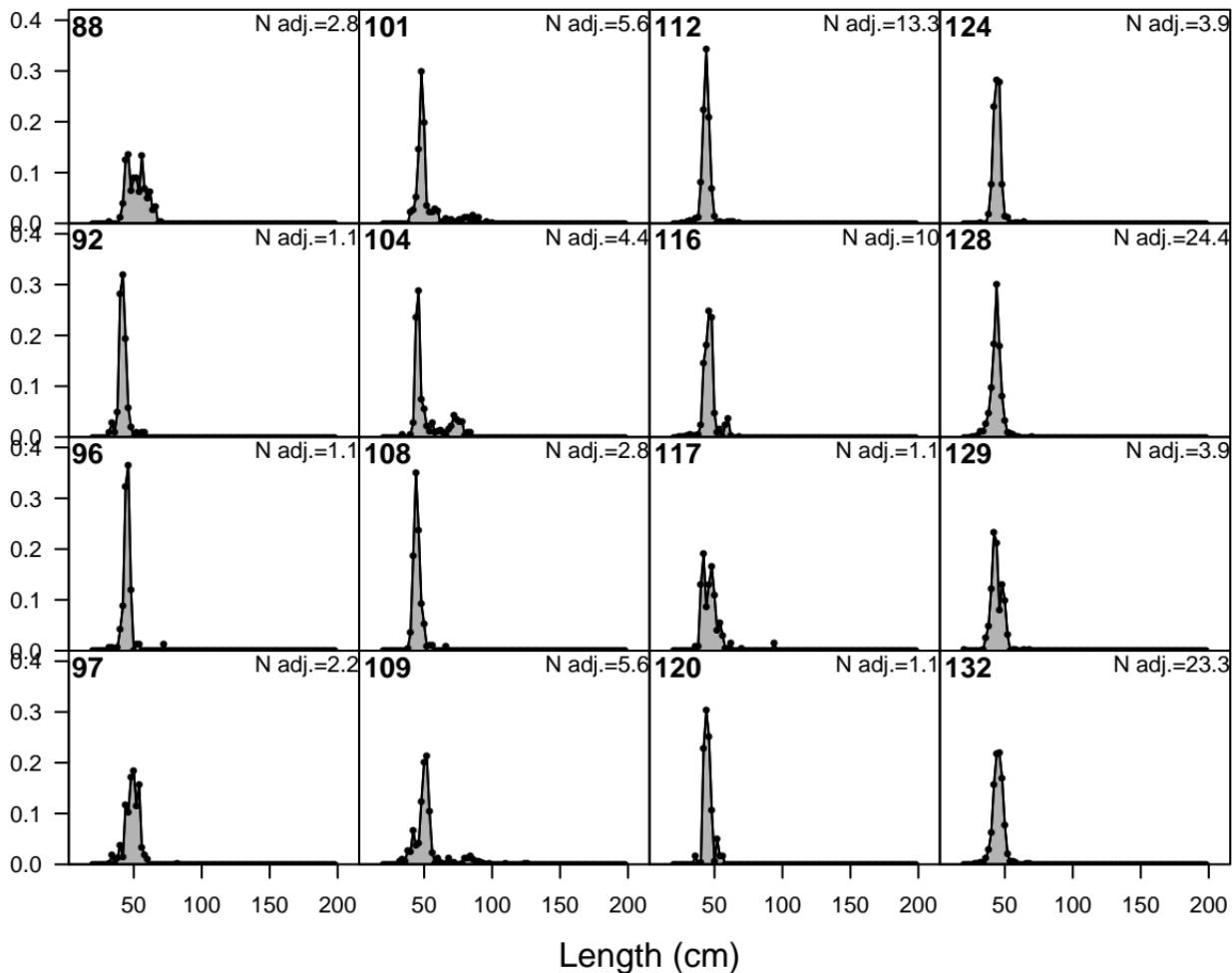


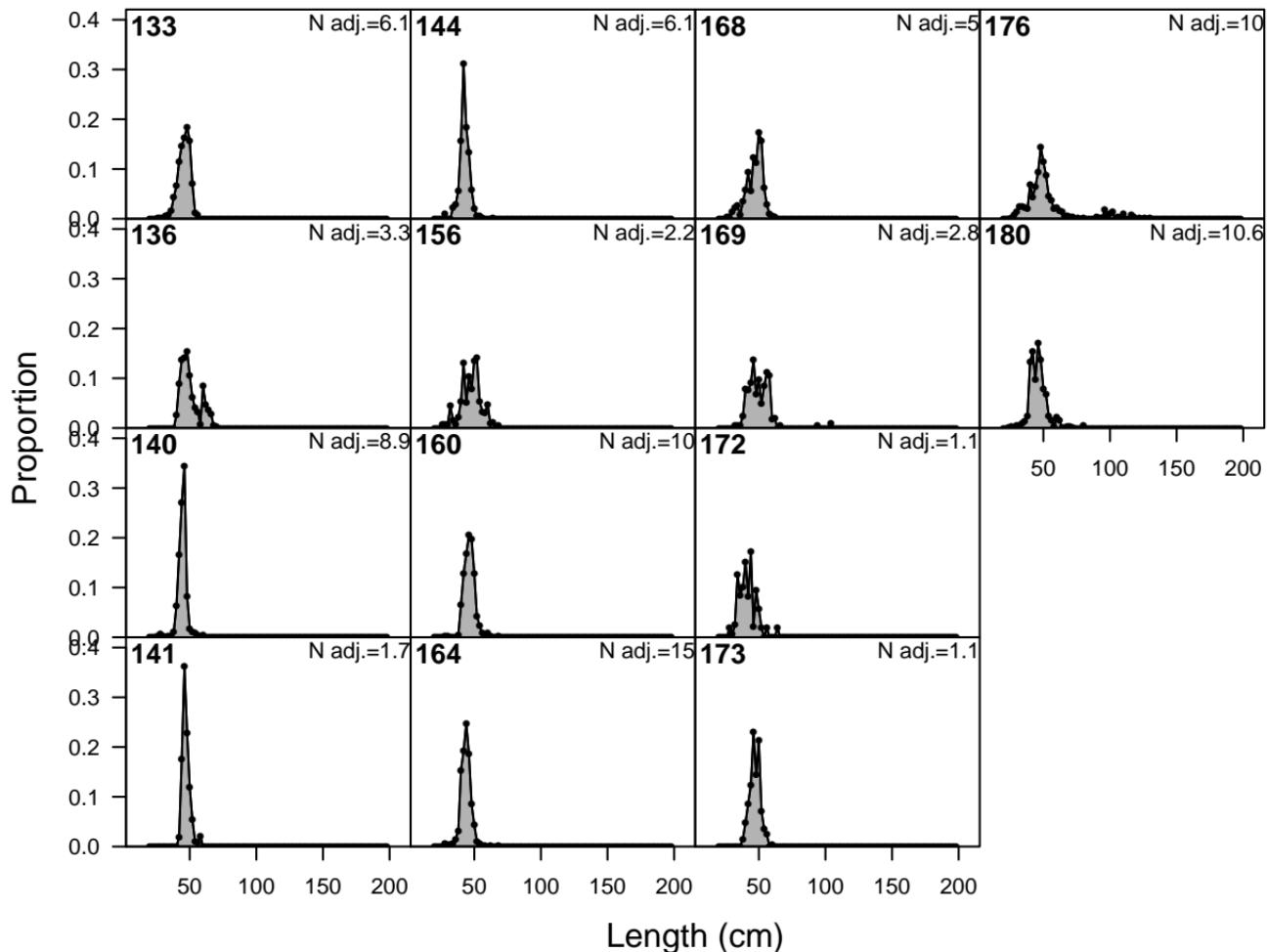
# F1-OBJ\_N-Q14 (whole catch)

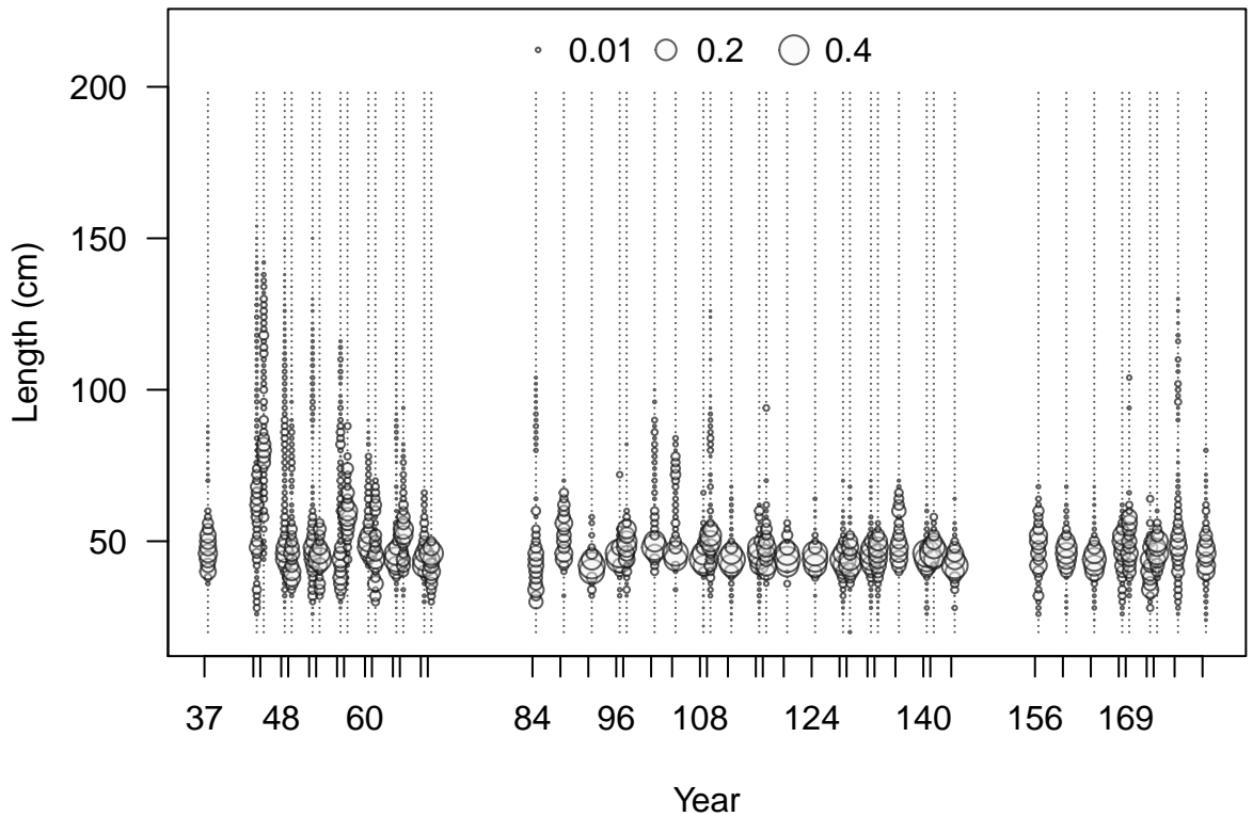




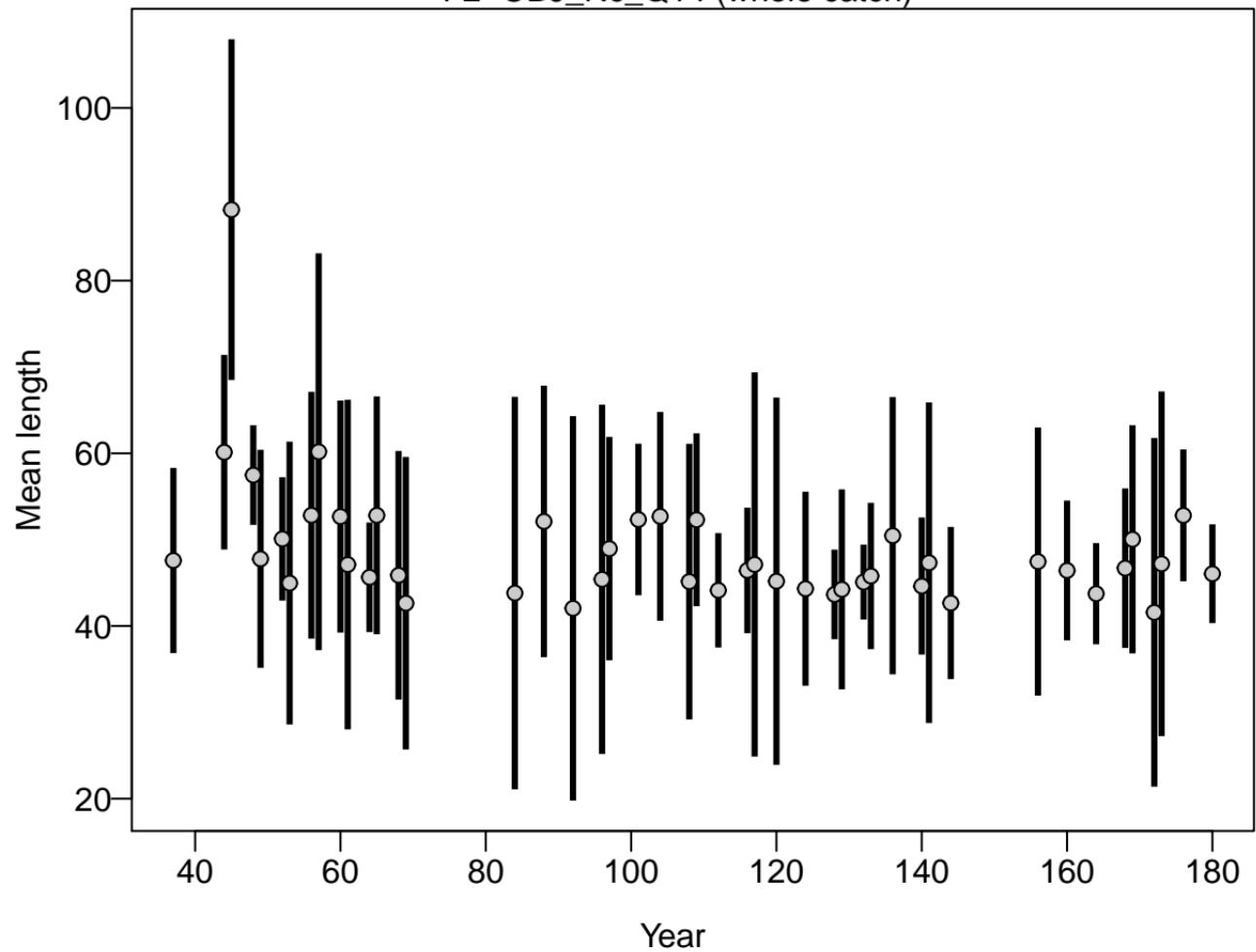
Proportion



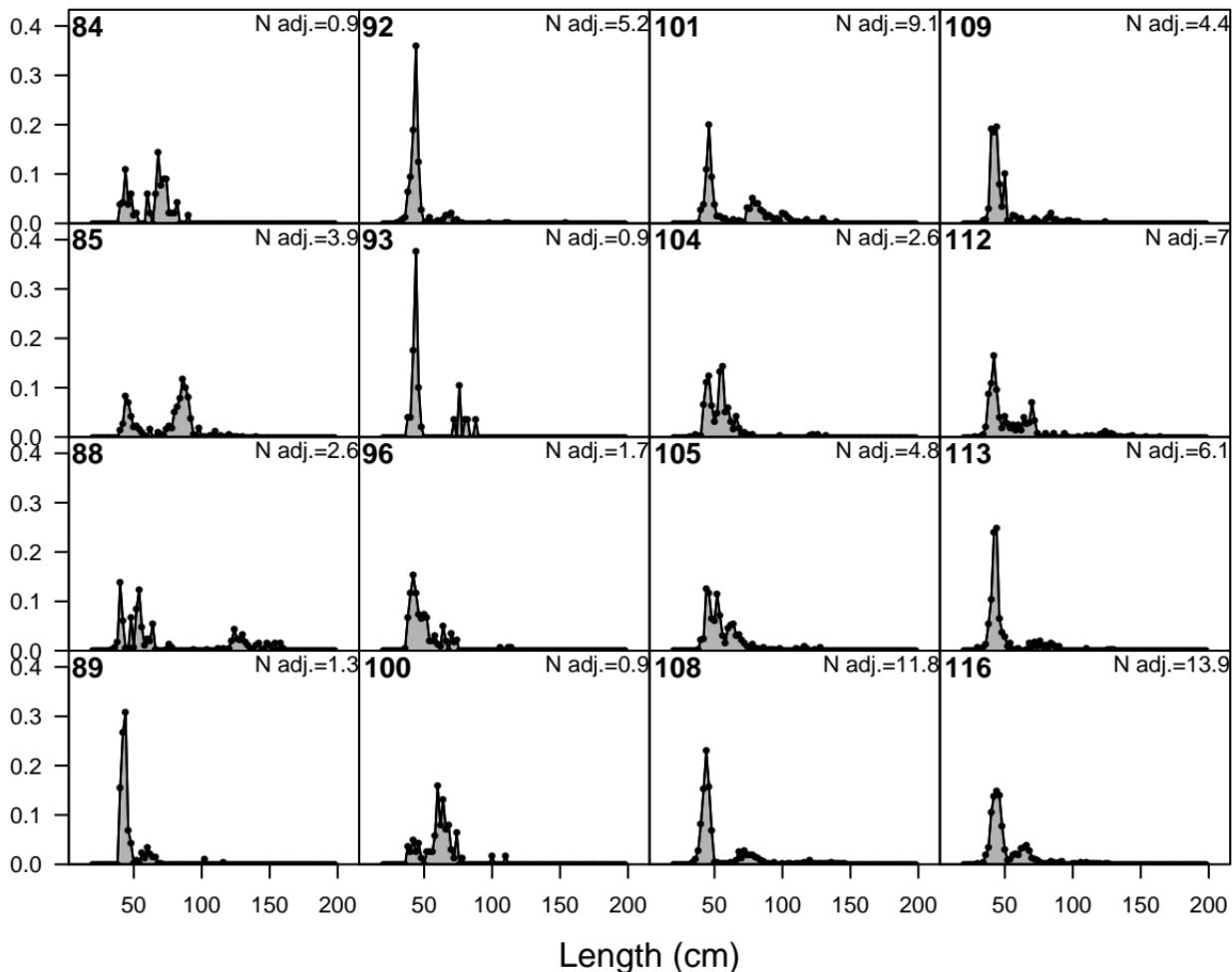




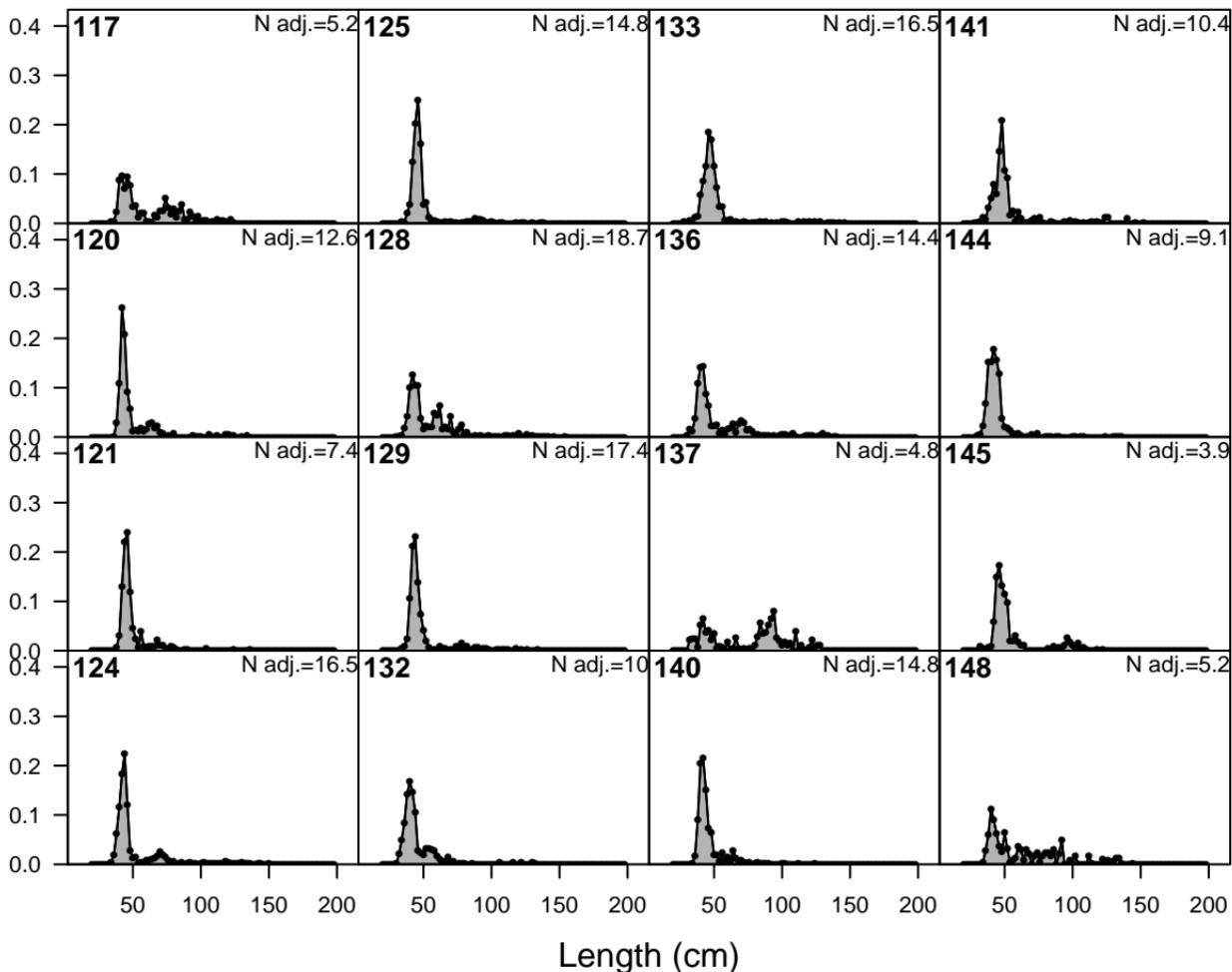
F2-OBJ\_Nc\_Q14 (whole catch)



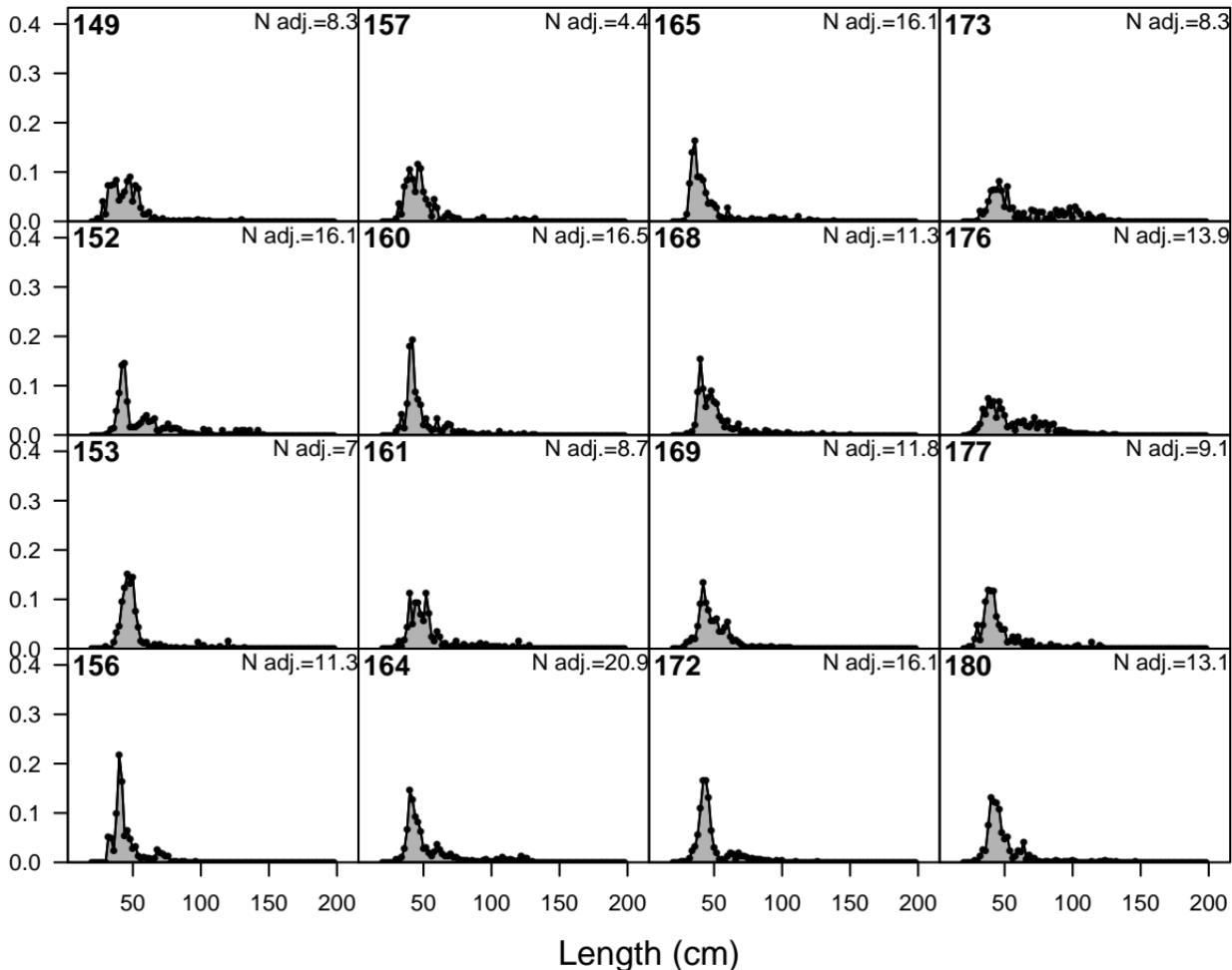
Proportion

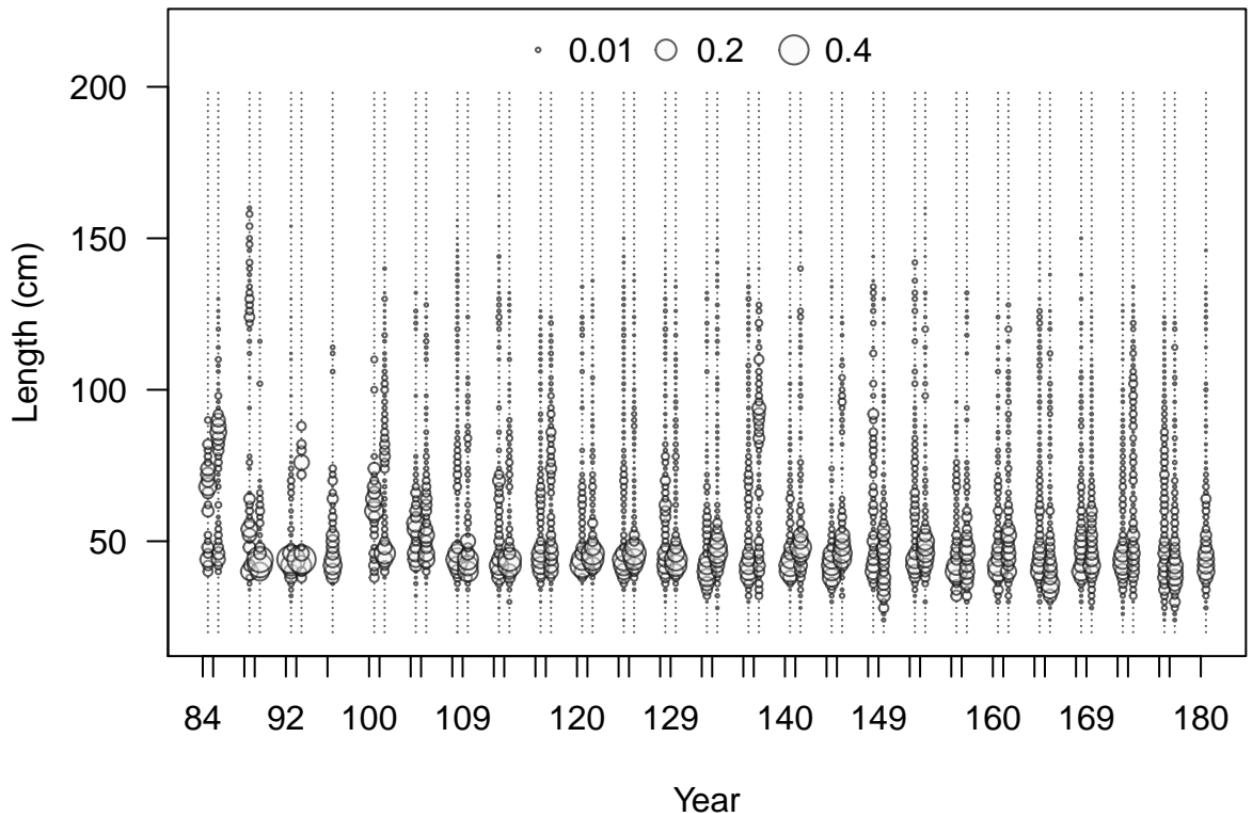


Proportion

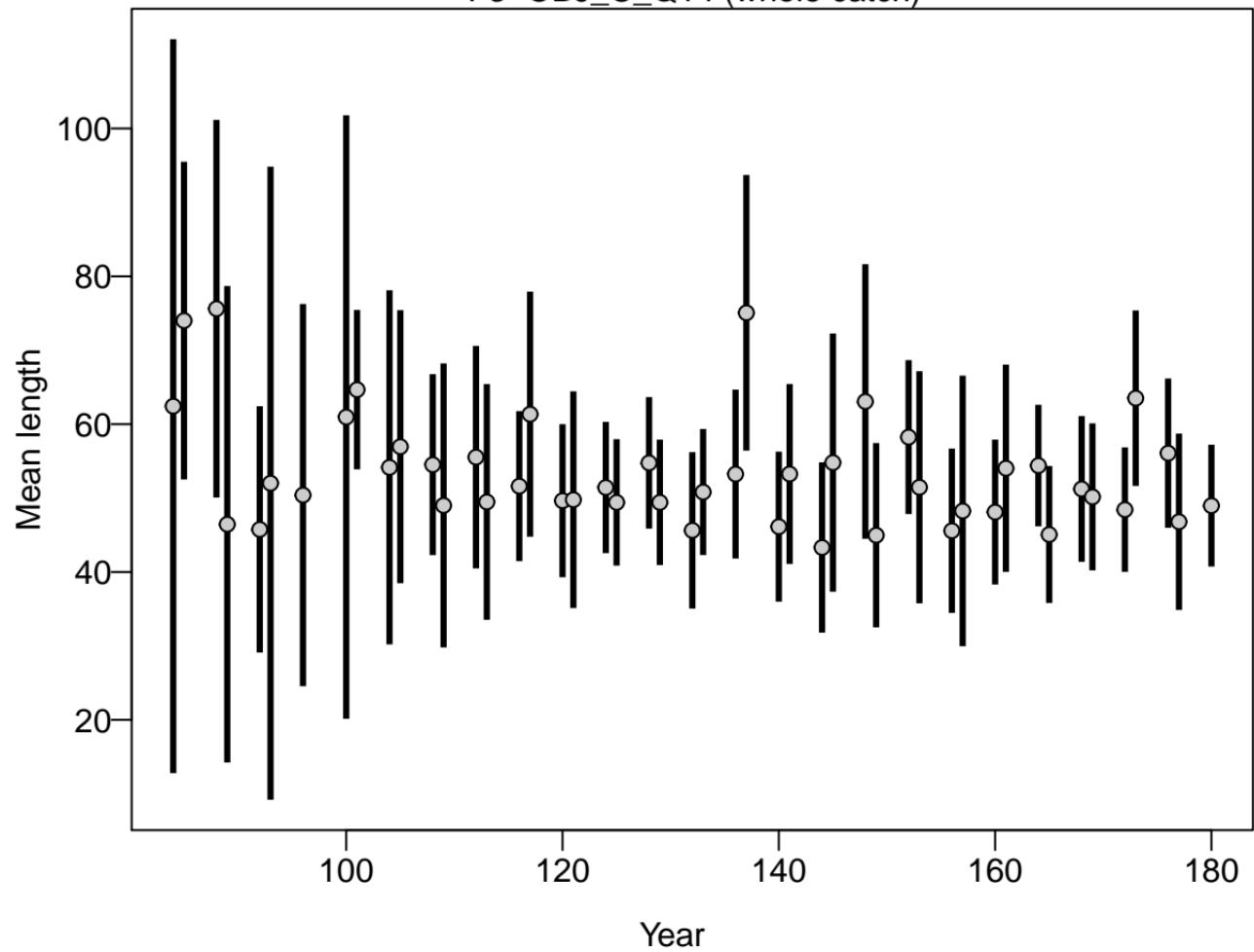


Proportion

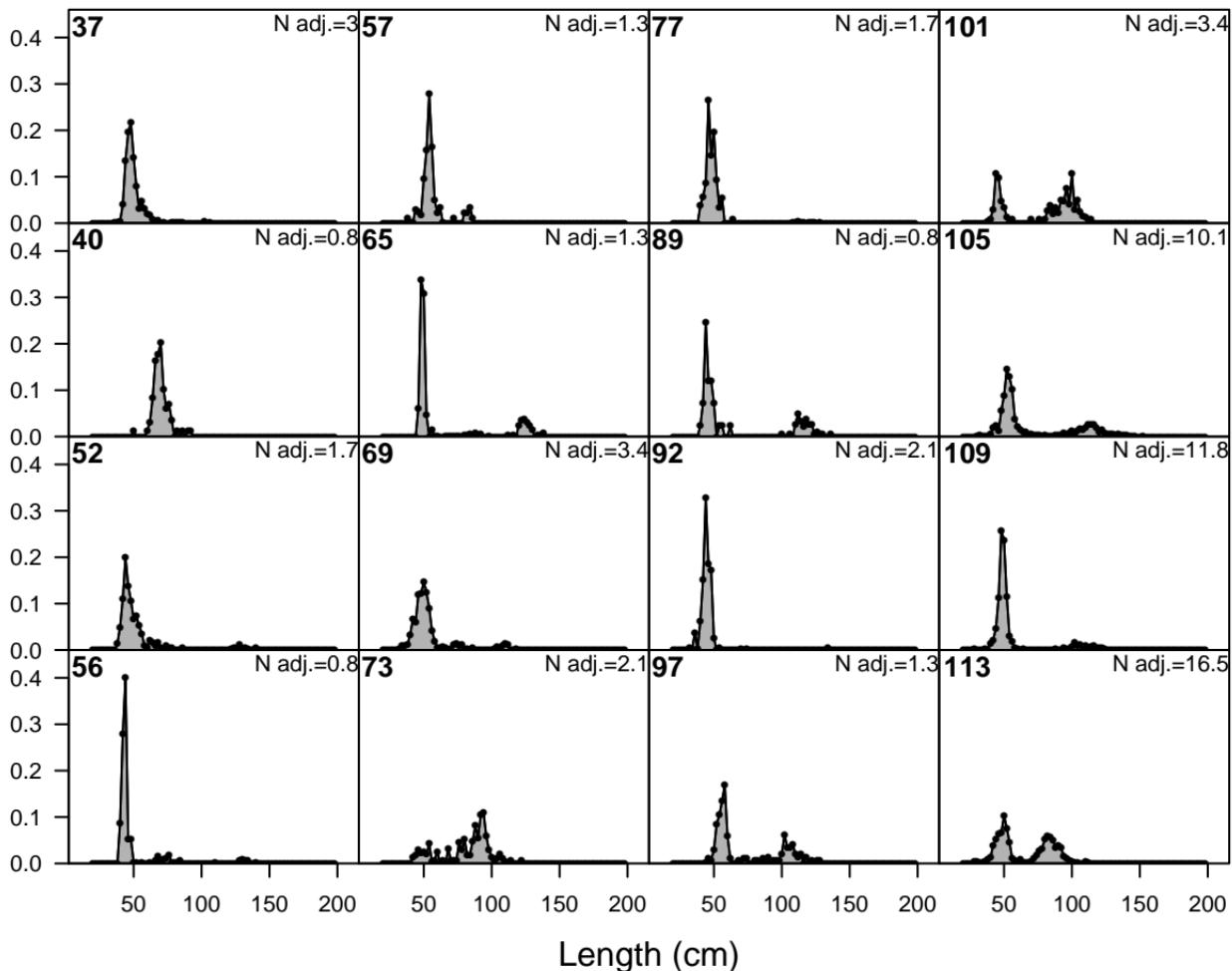




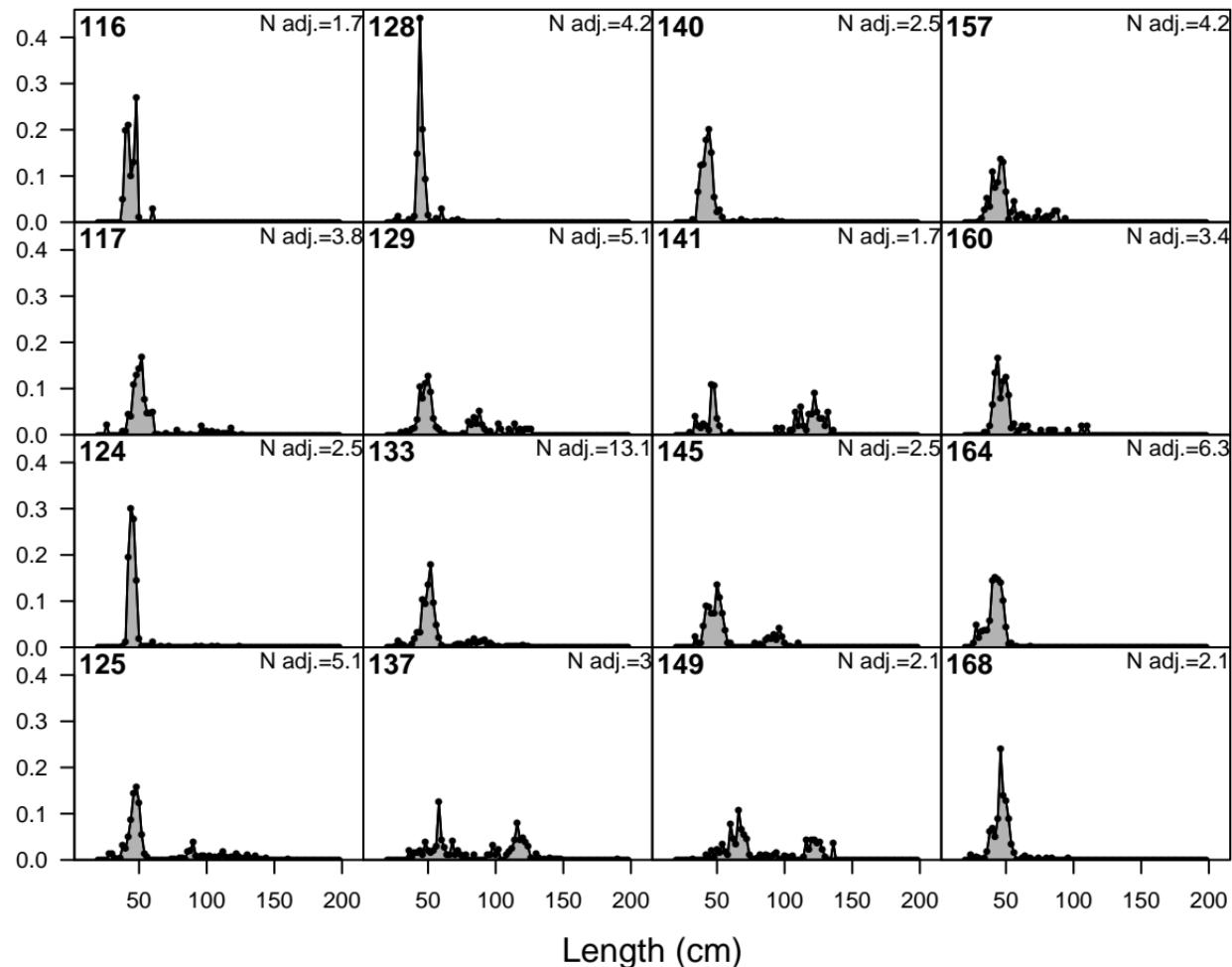
### F3-OBJ\_C\_Q14 (whole catch)

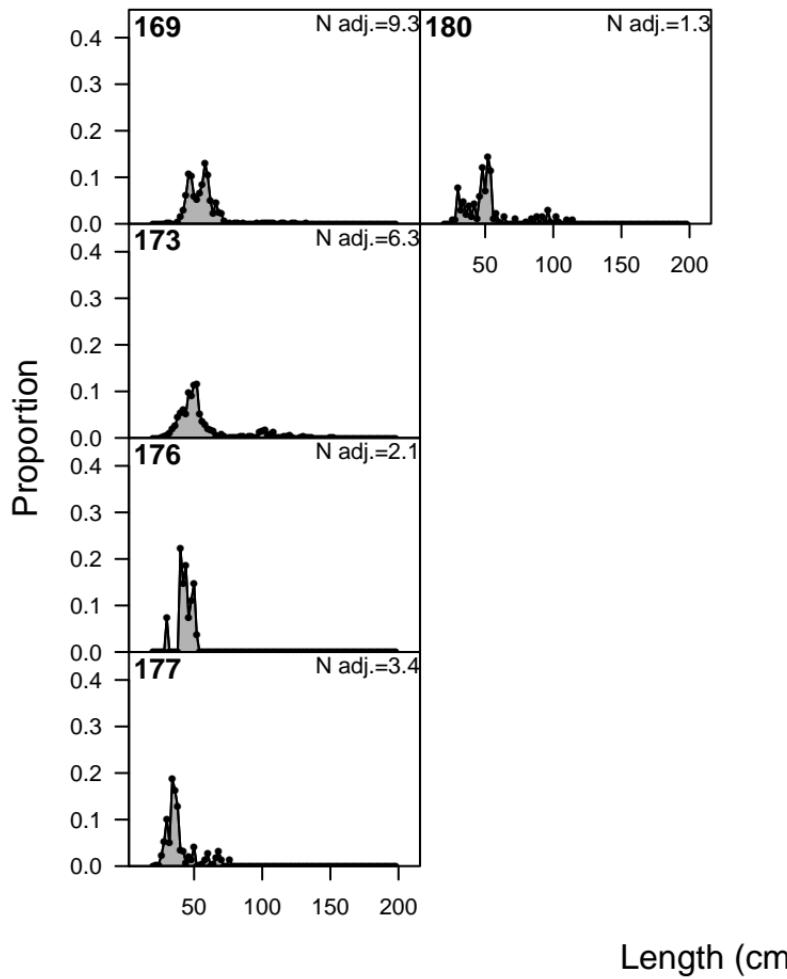


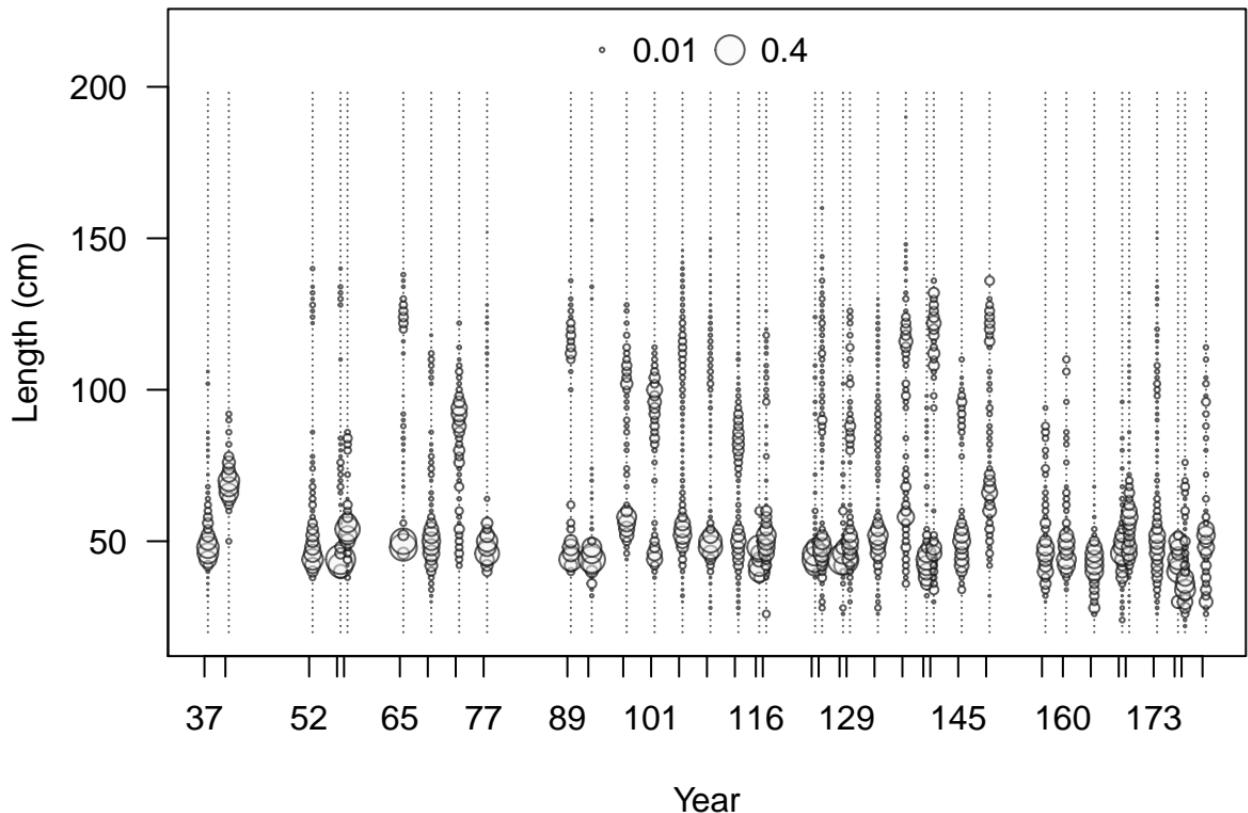
Proportion



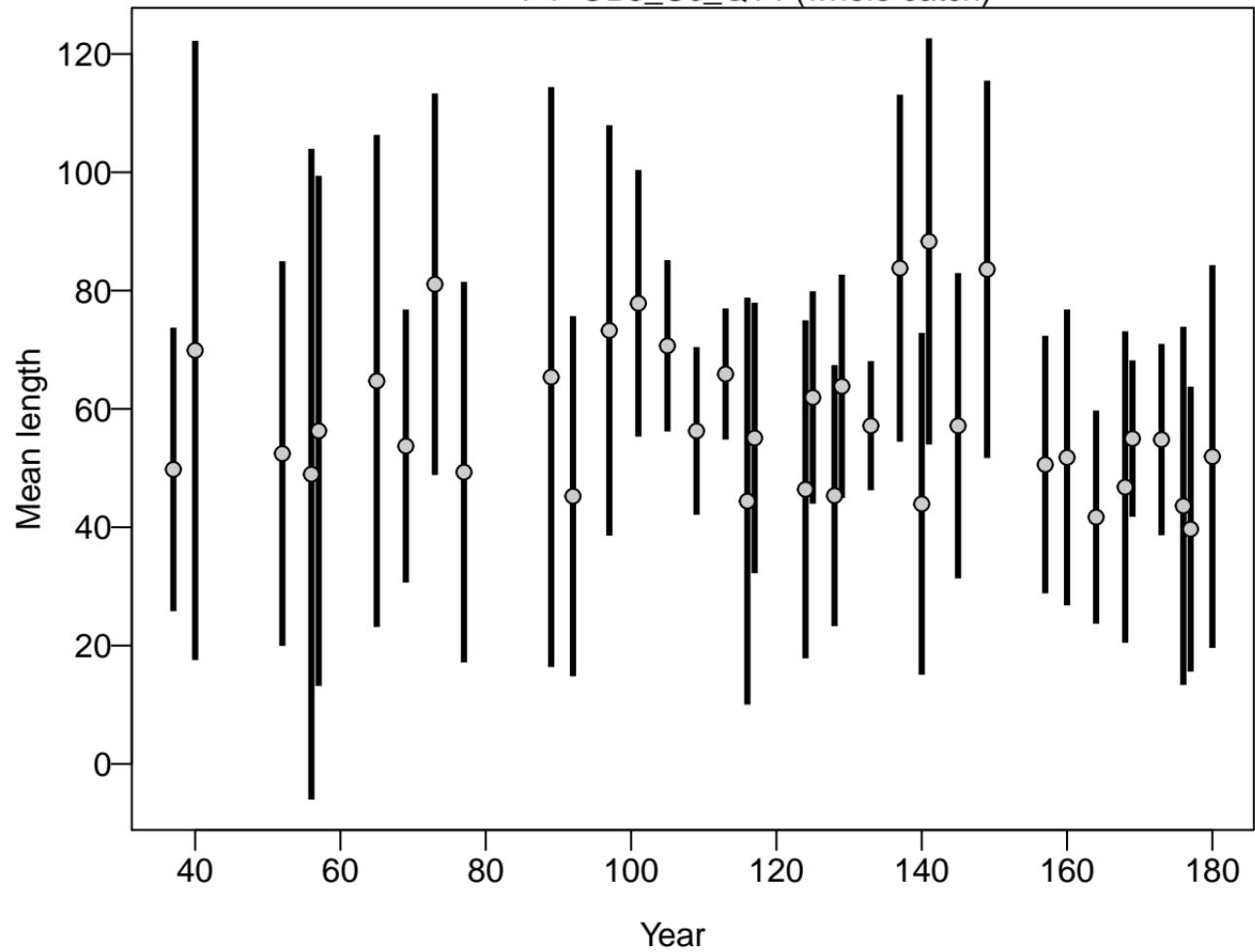
Proportion

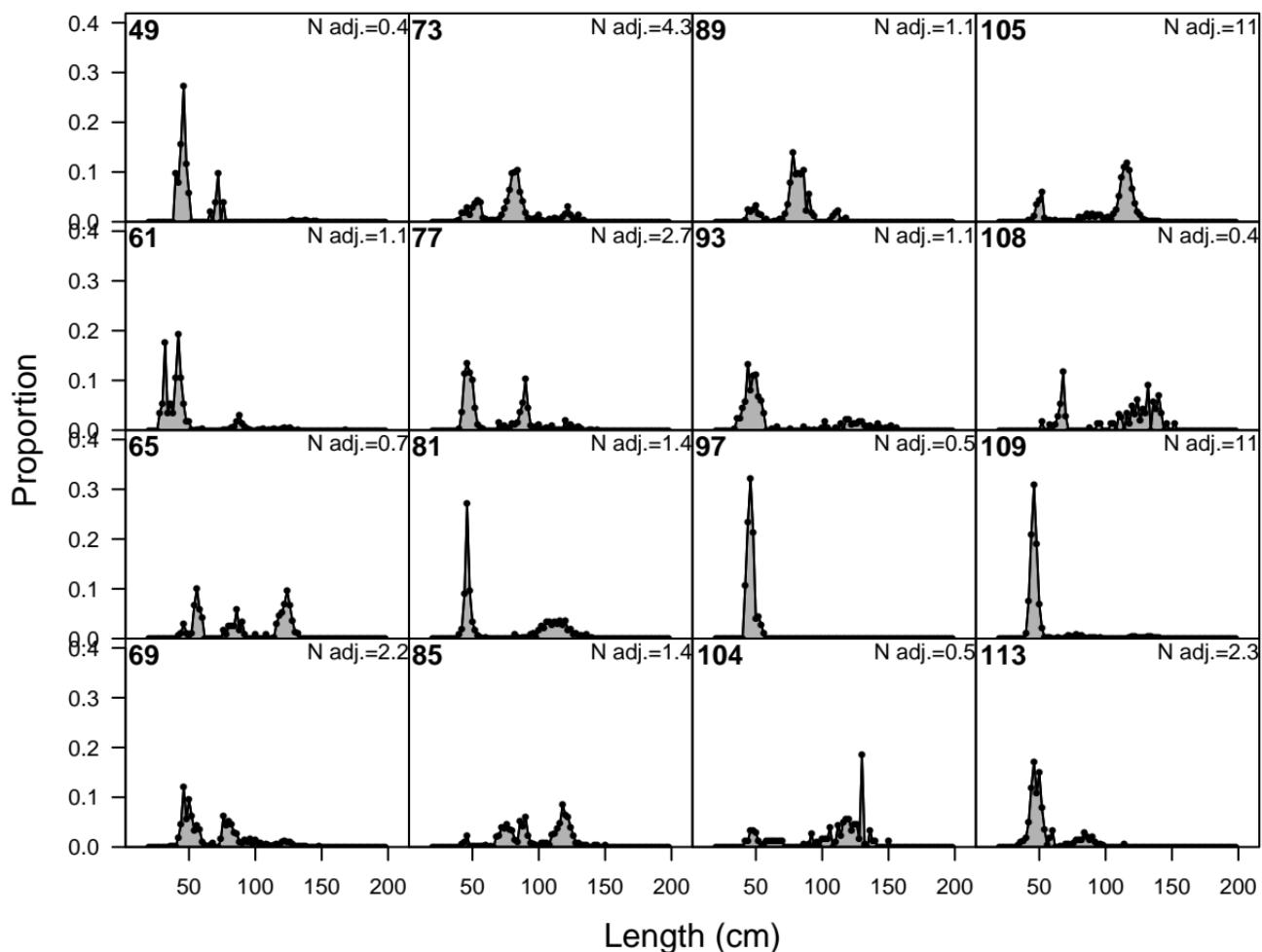


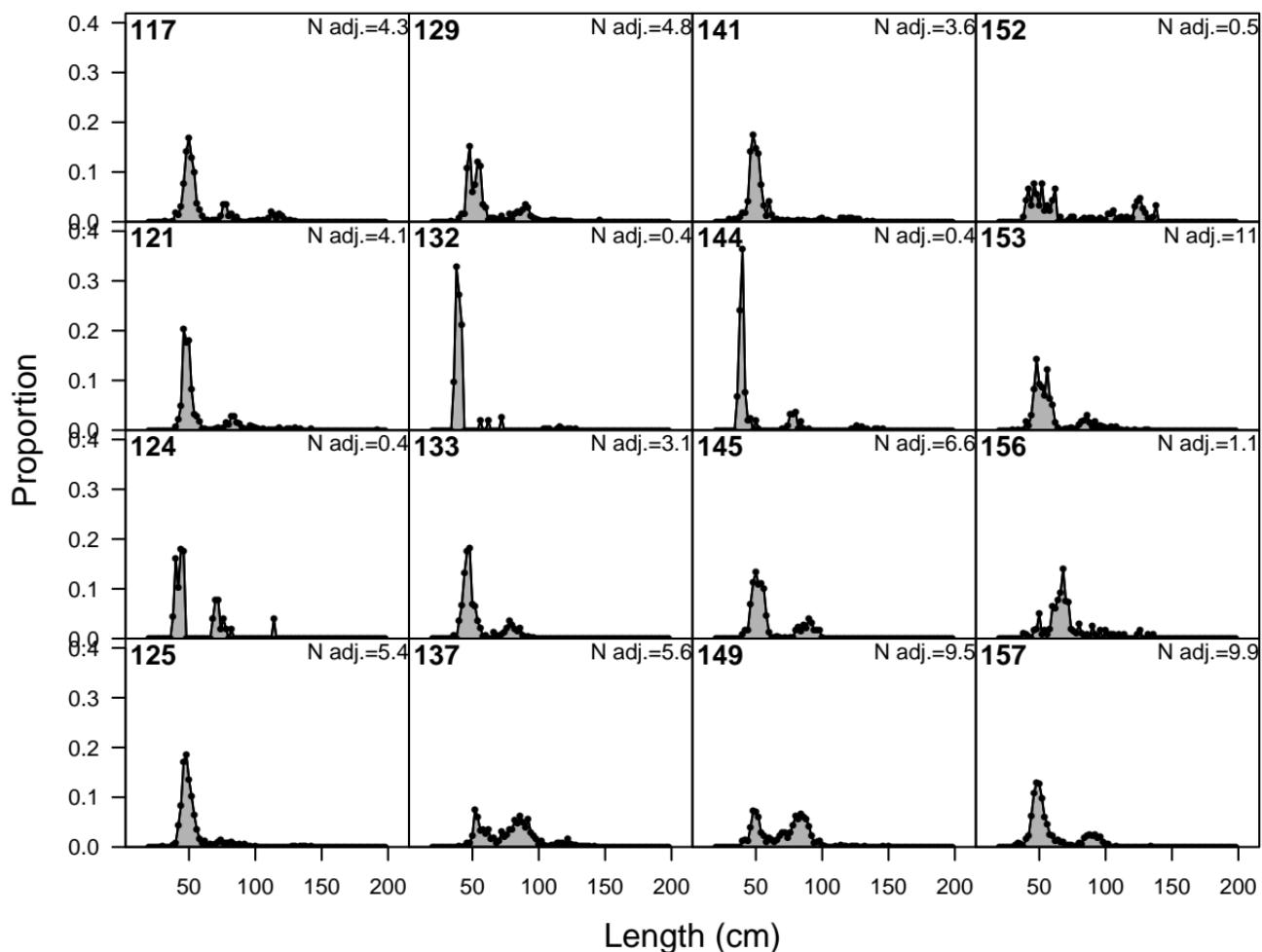


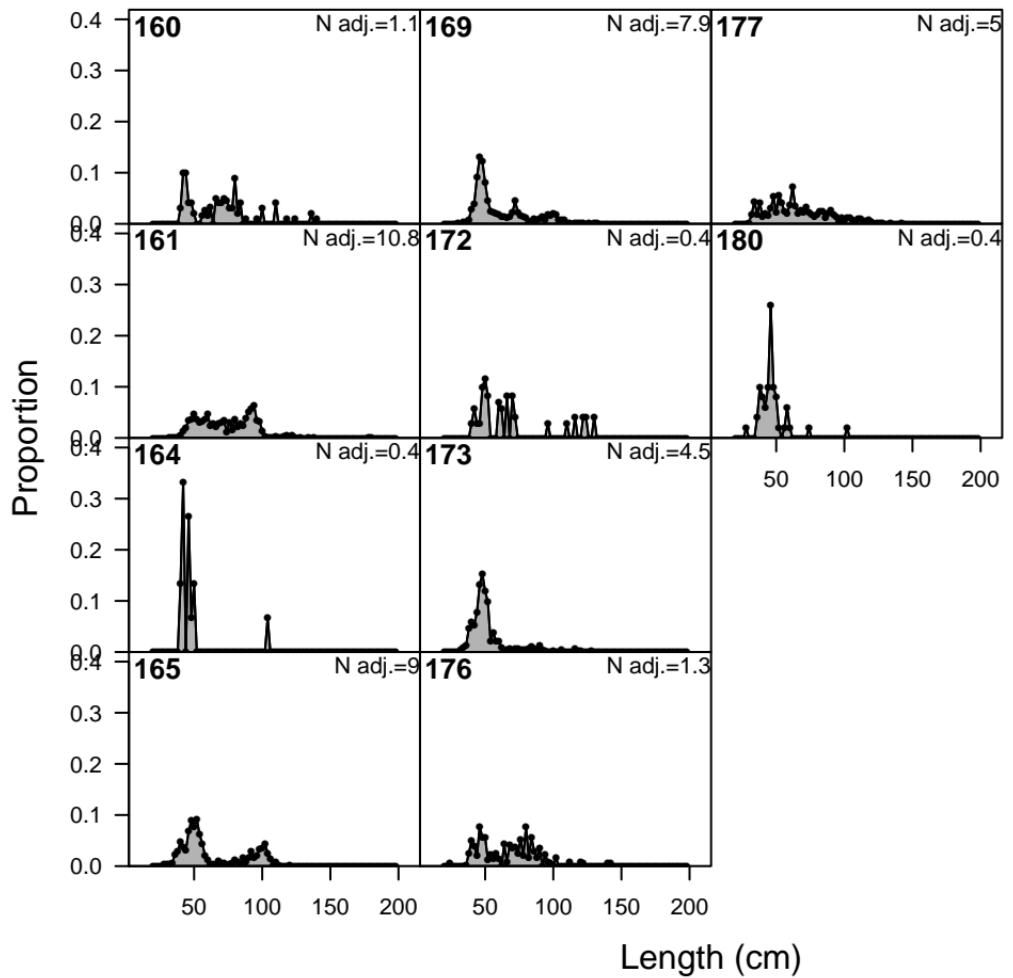


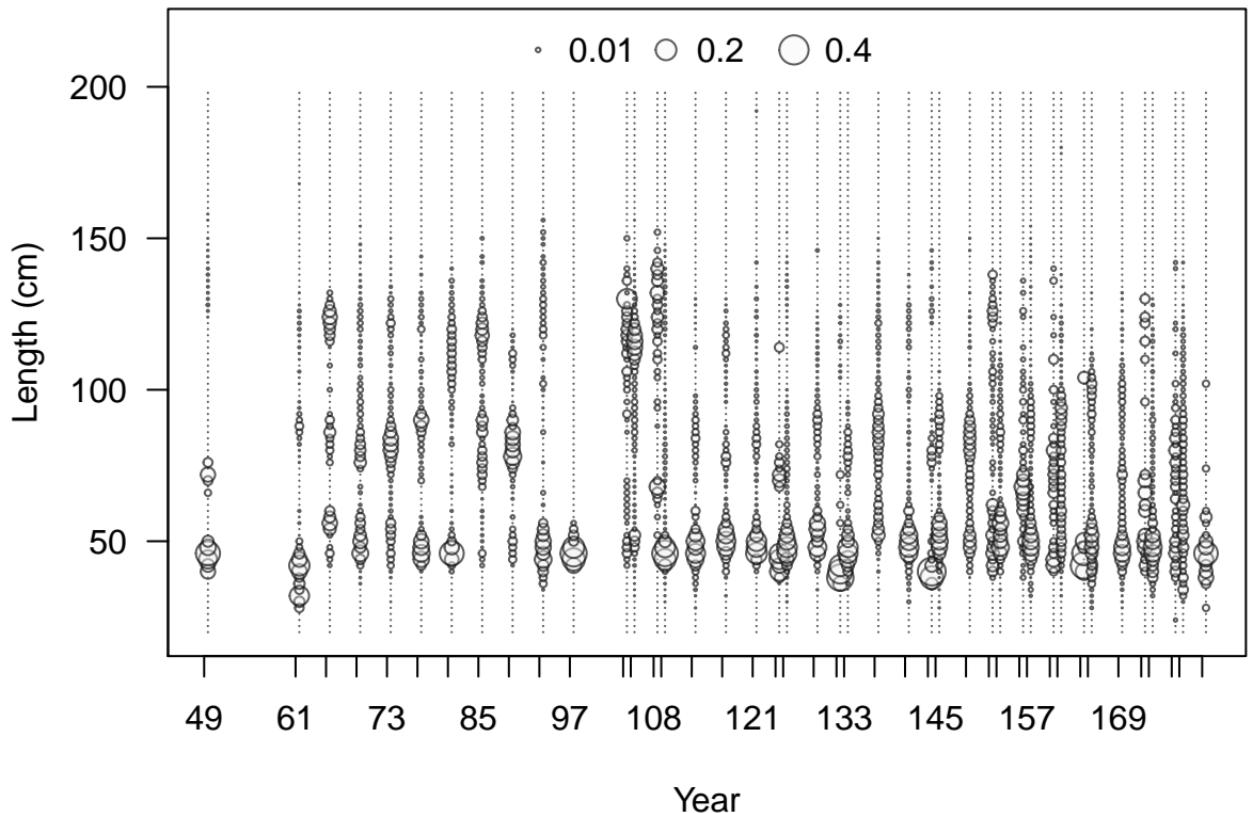
# F4-OBJ\_Cc\_Q14 (whole catch)



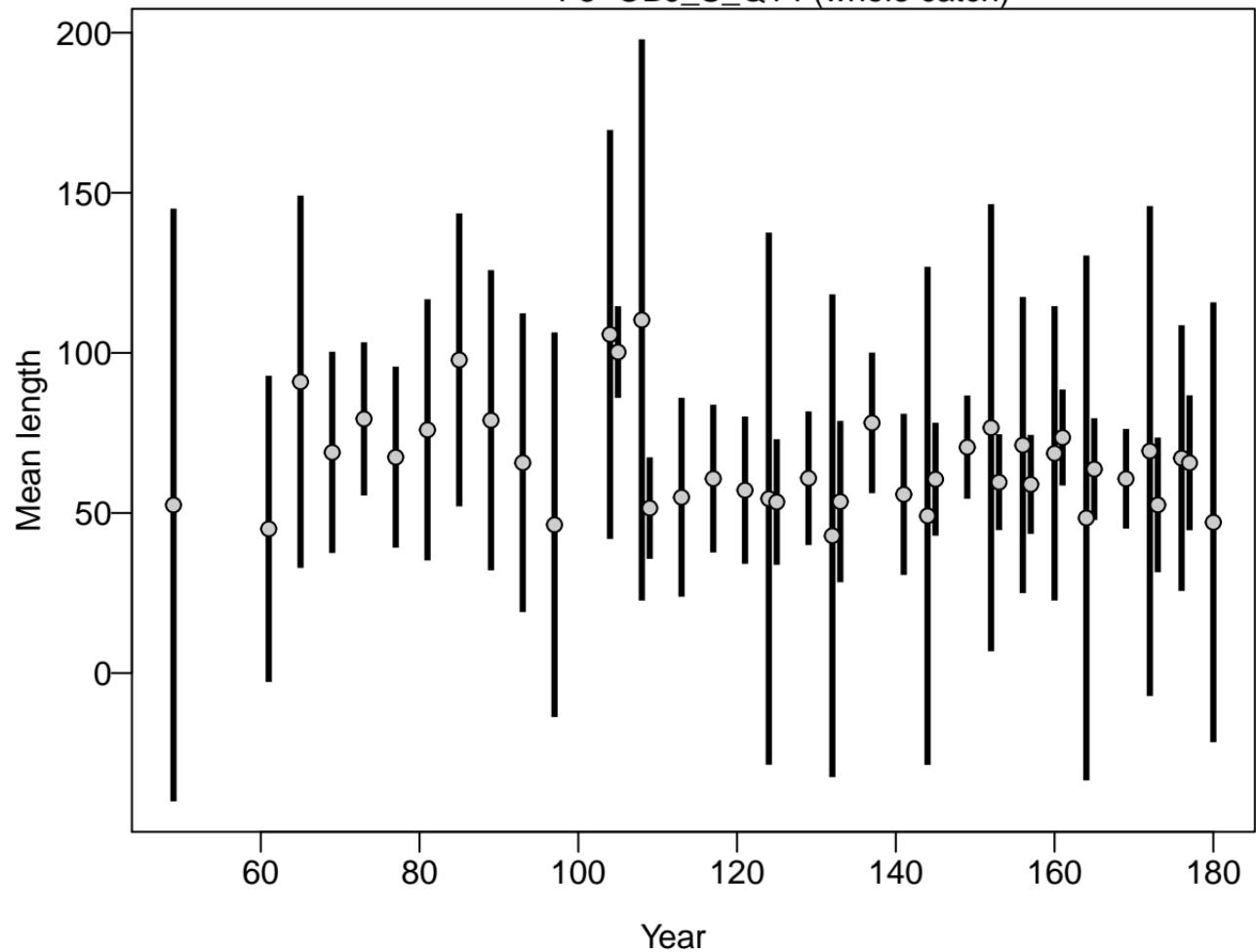


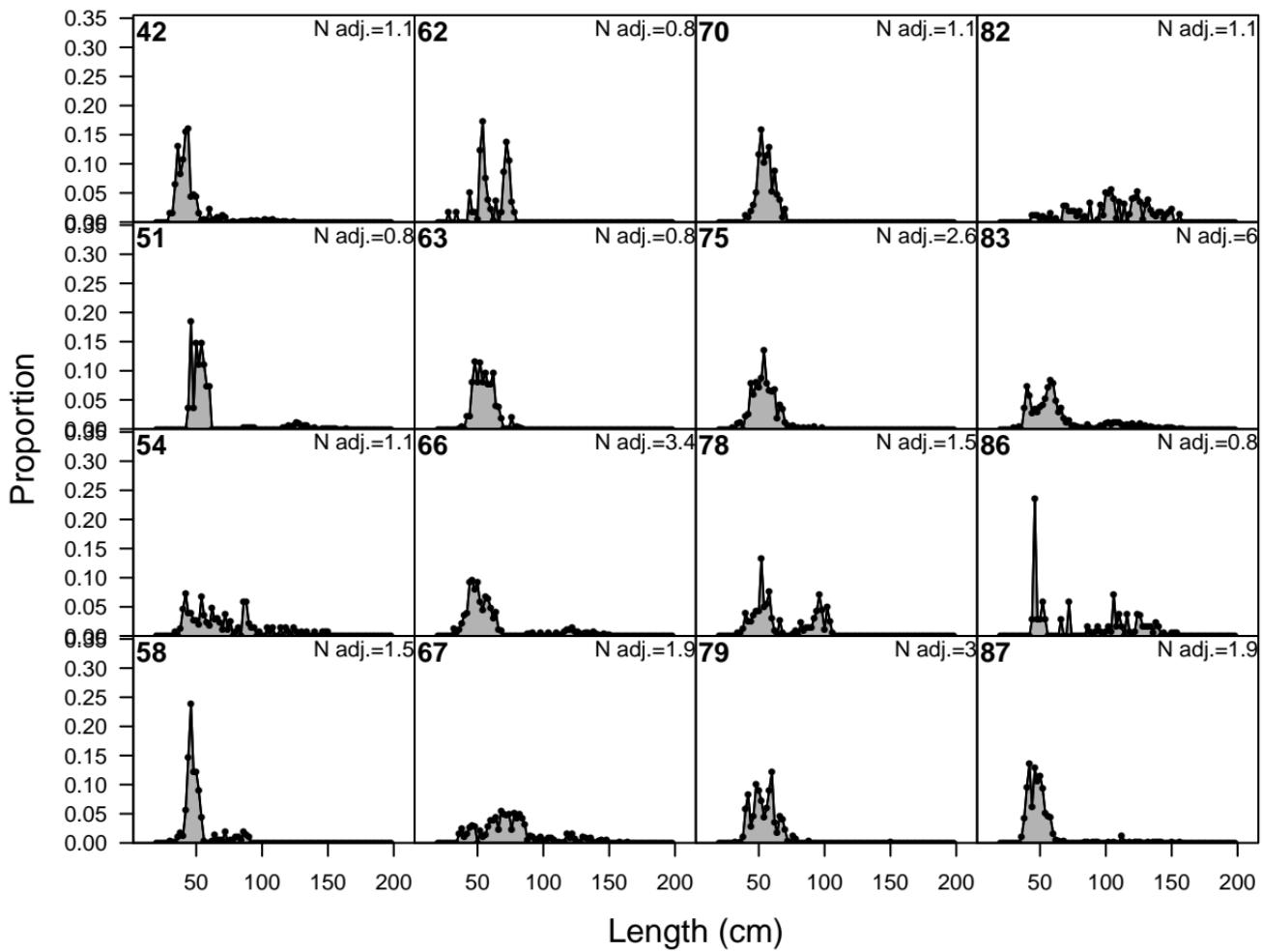


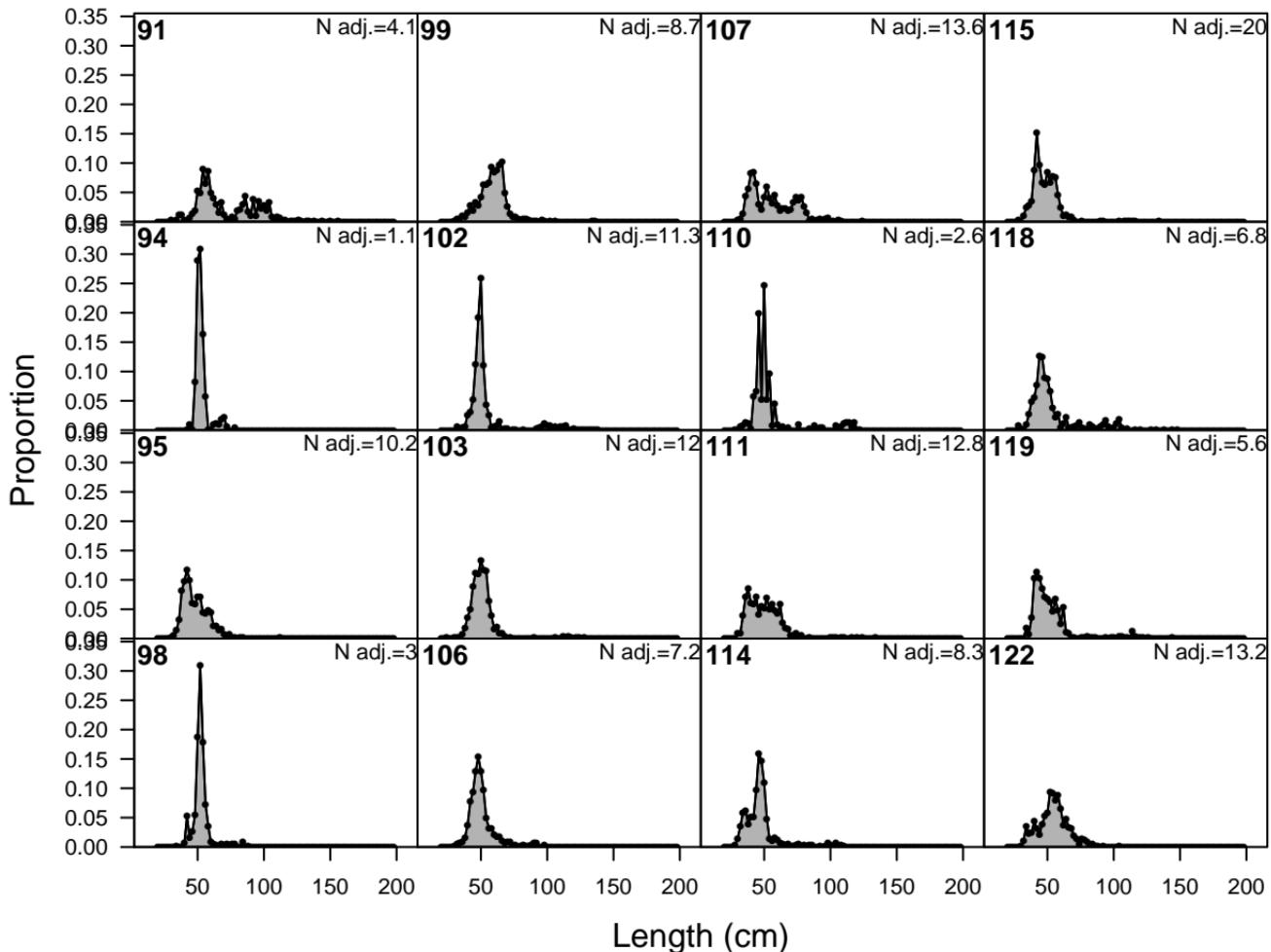


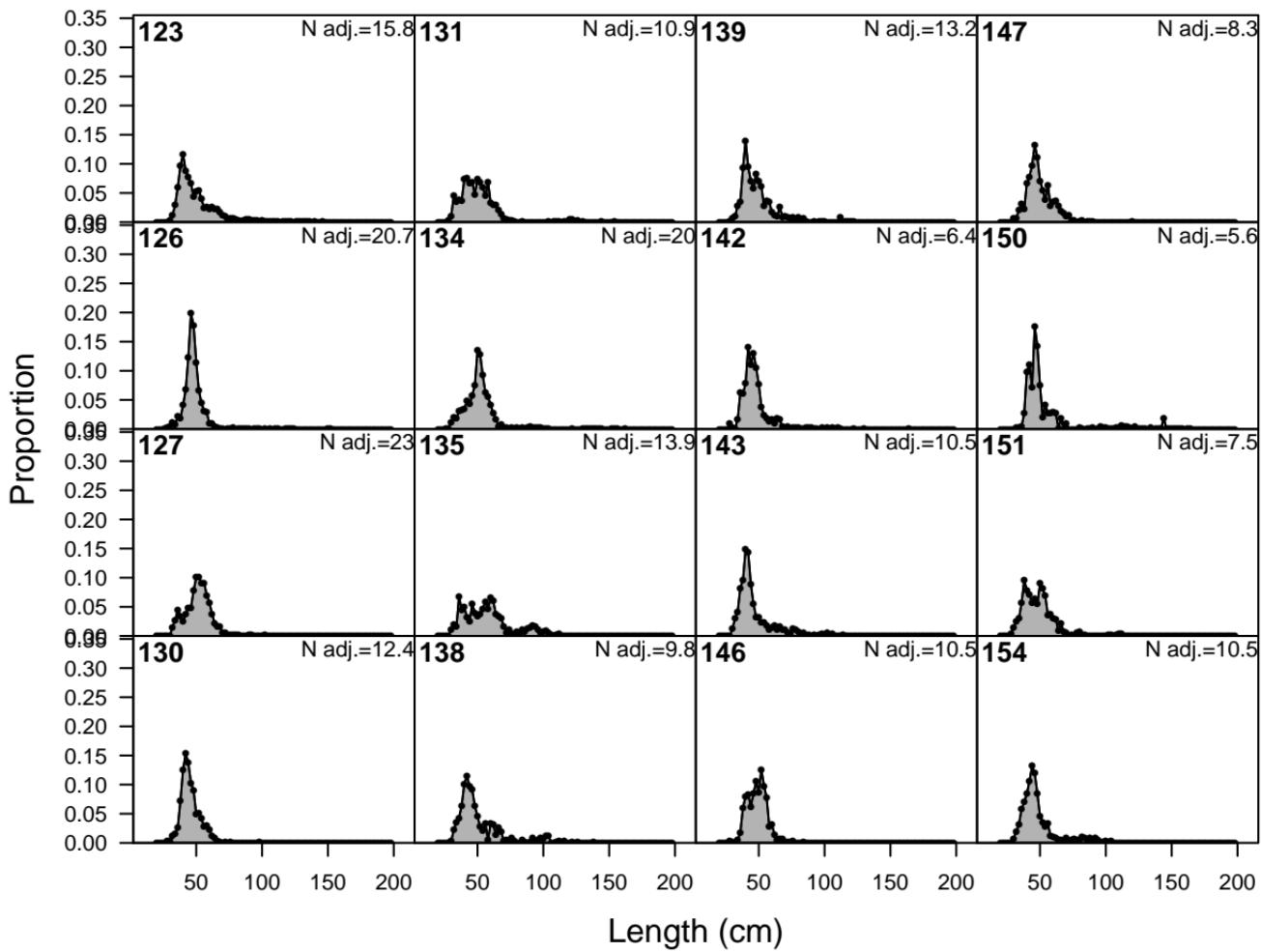


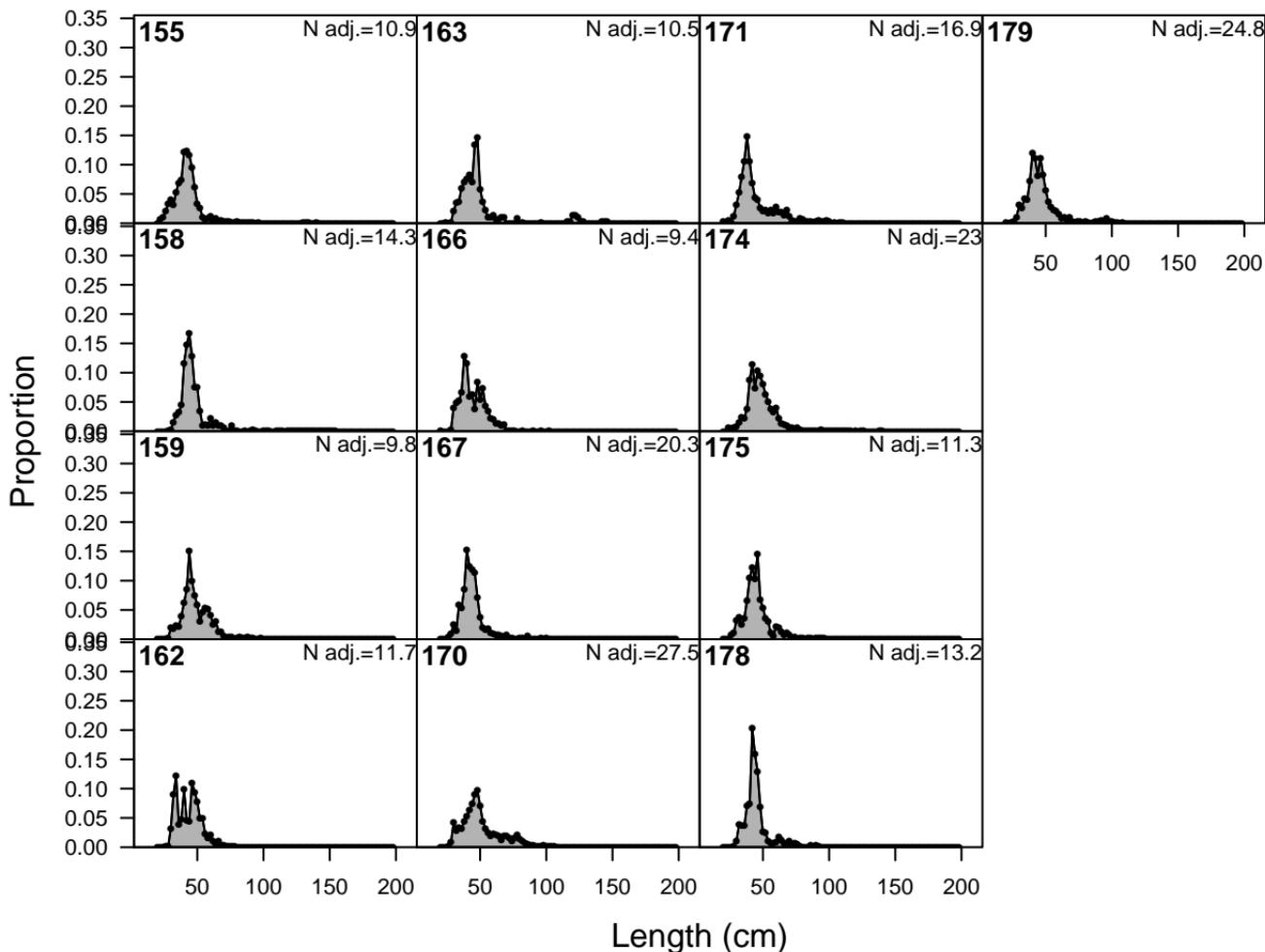
# F5-OBJ\_S\_Q14 (whole catch)

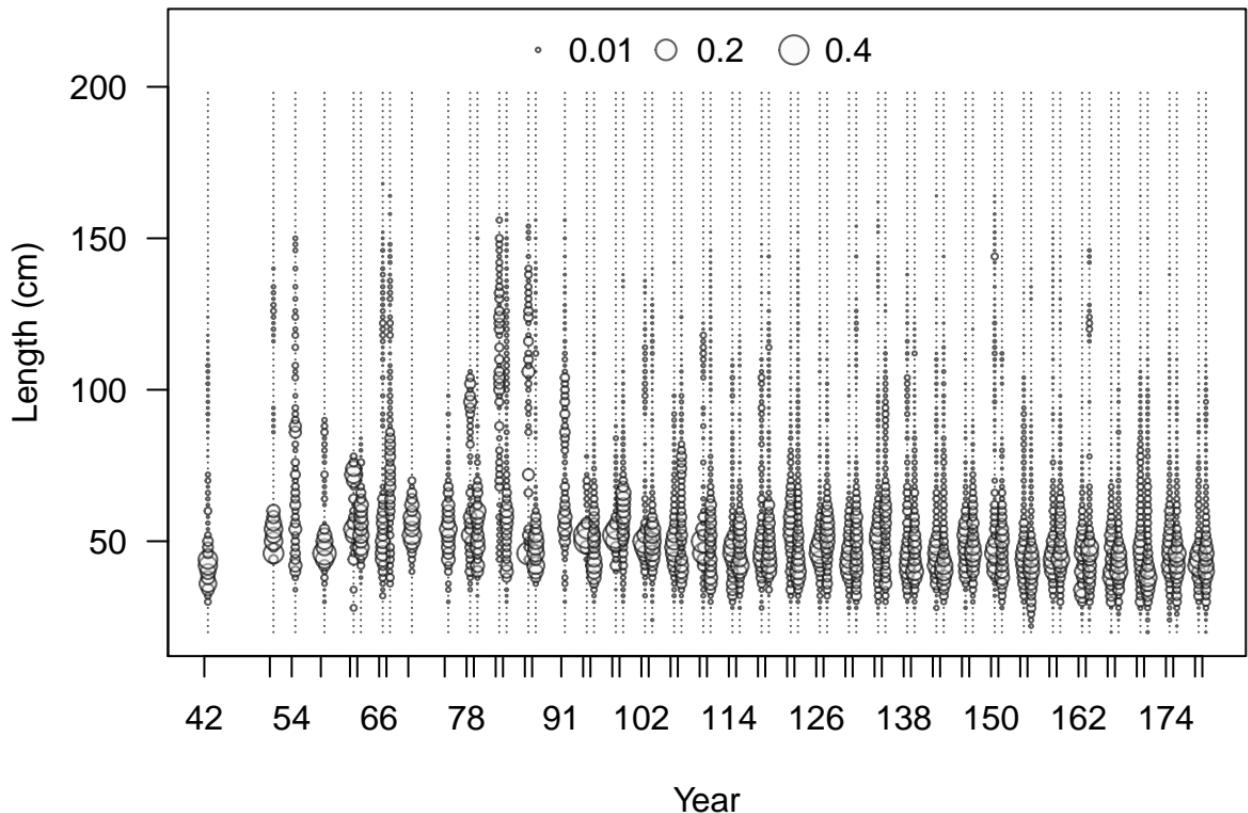




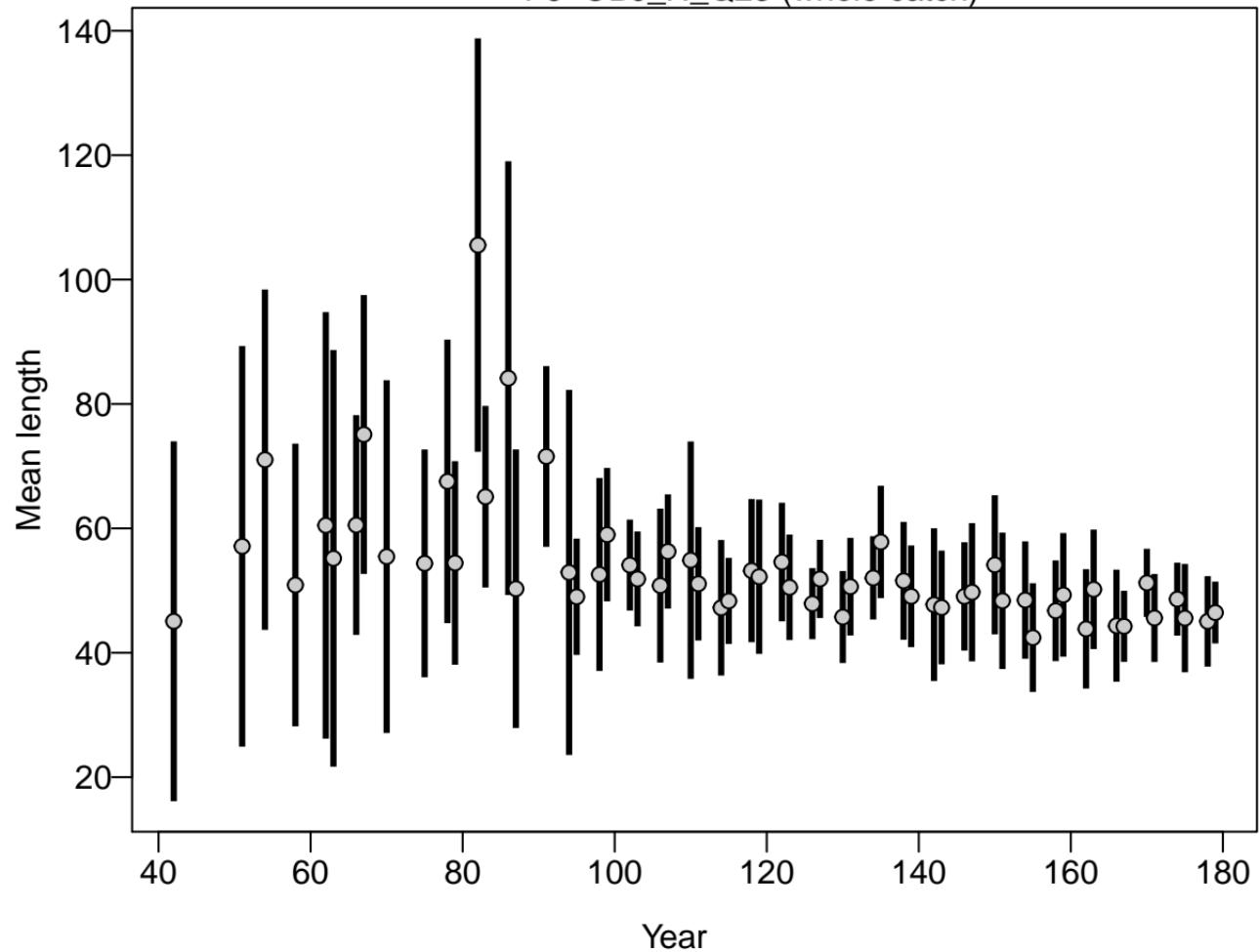




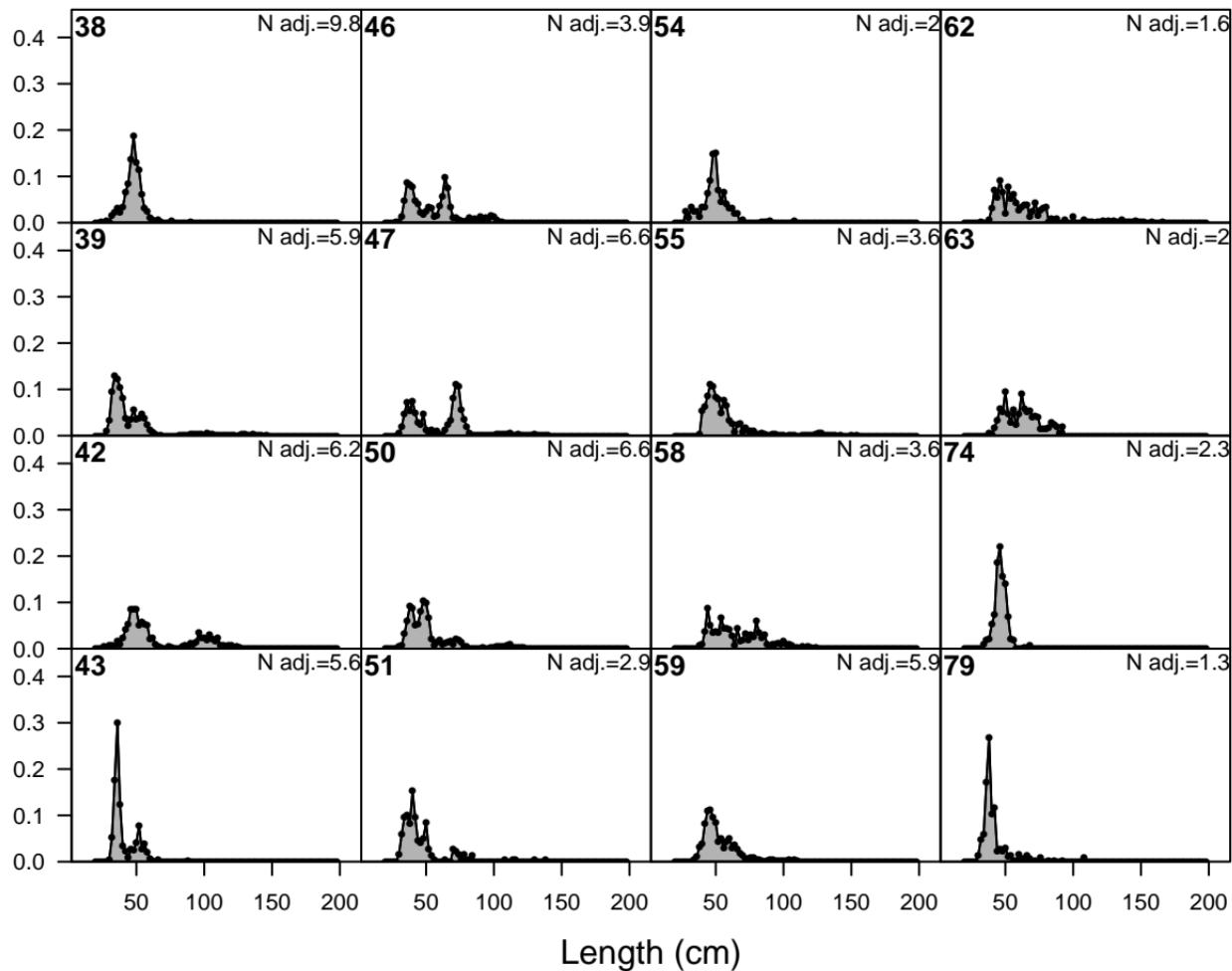




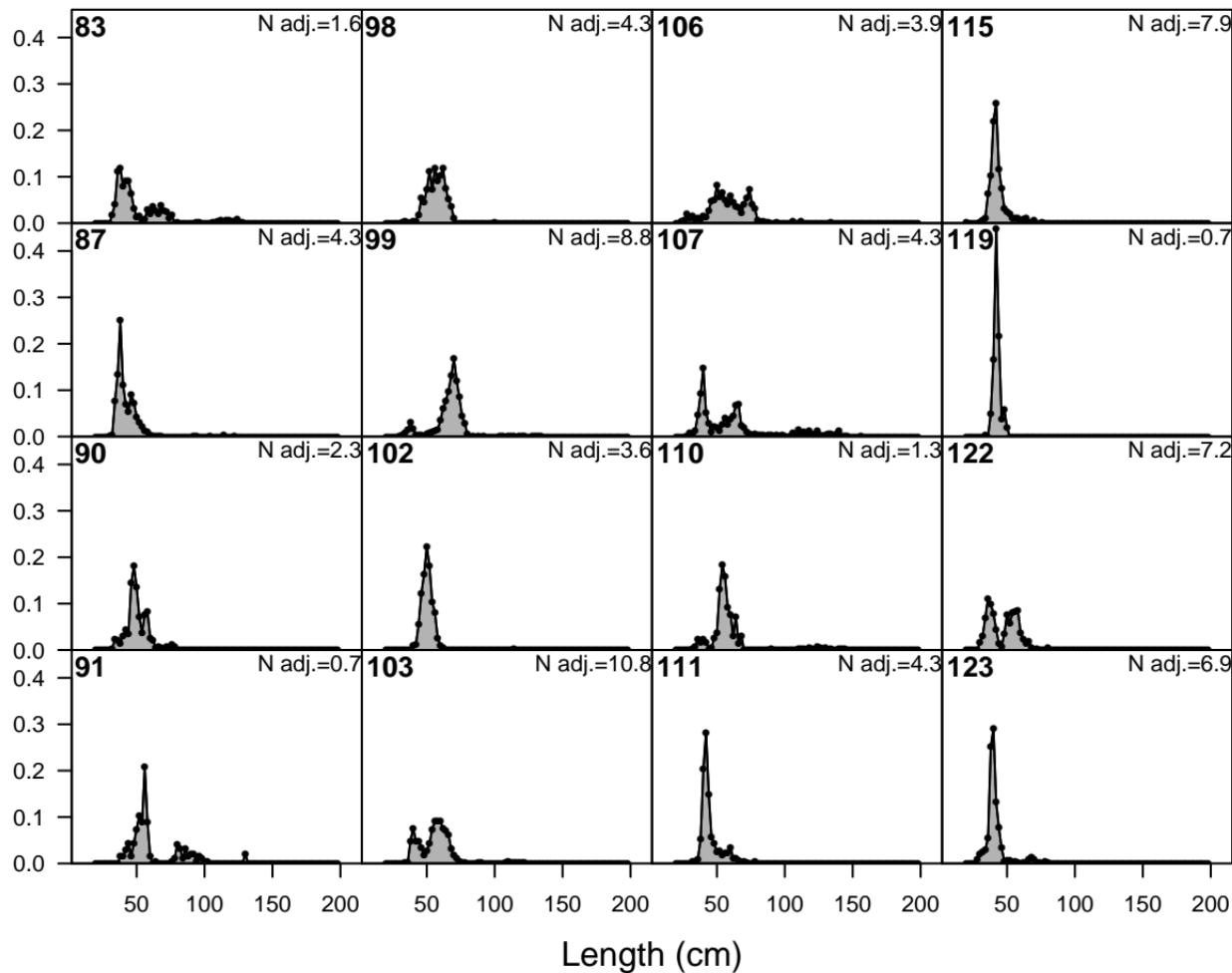
# F6-OBJ\_N\_Q23 (whole catch)



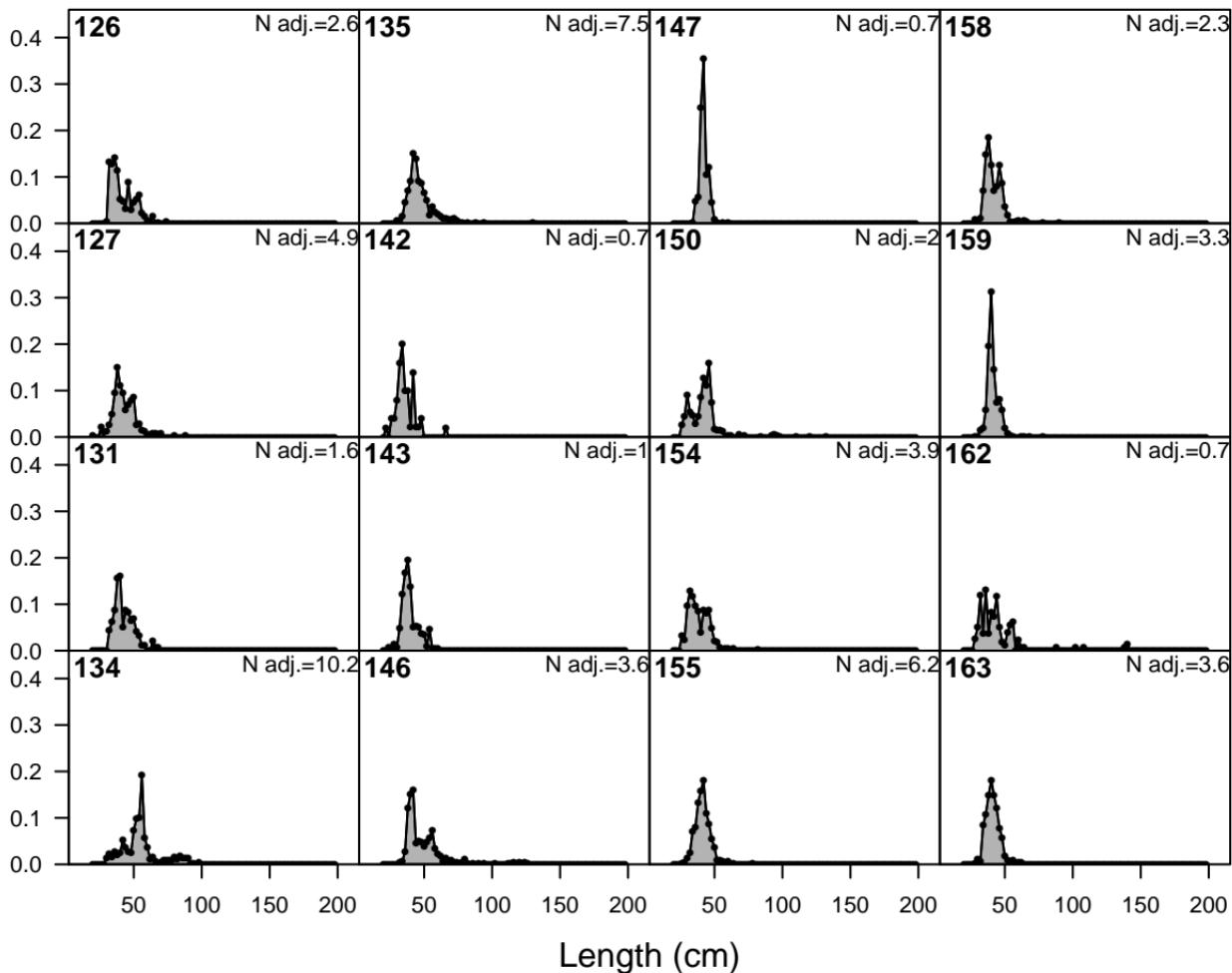
Proportion

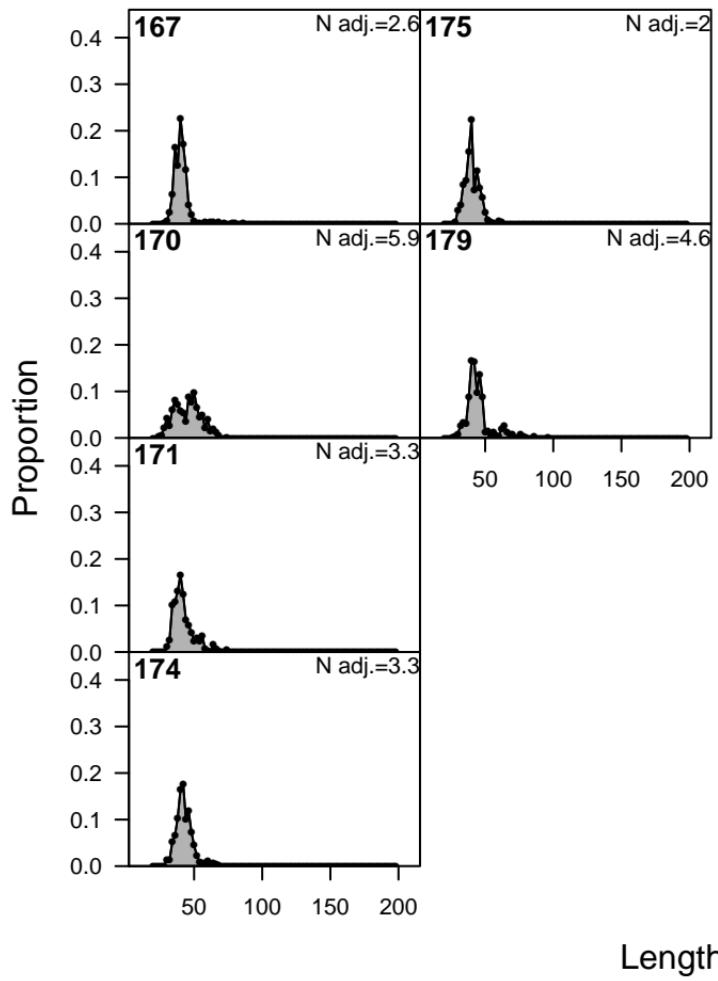


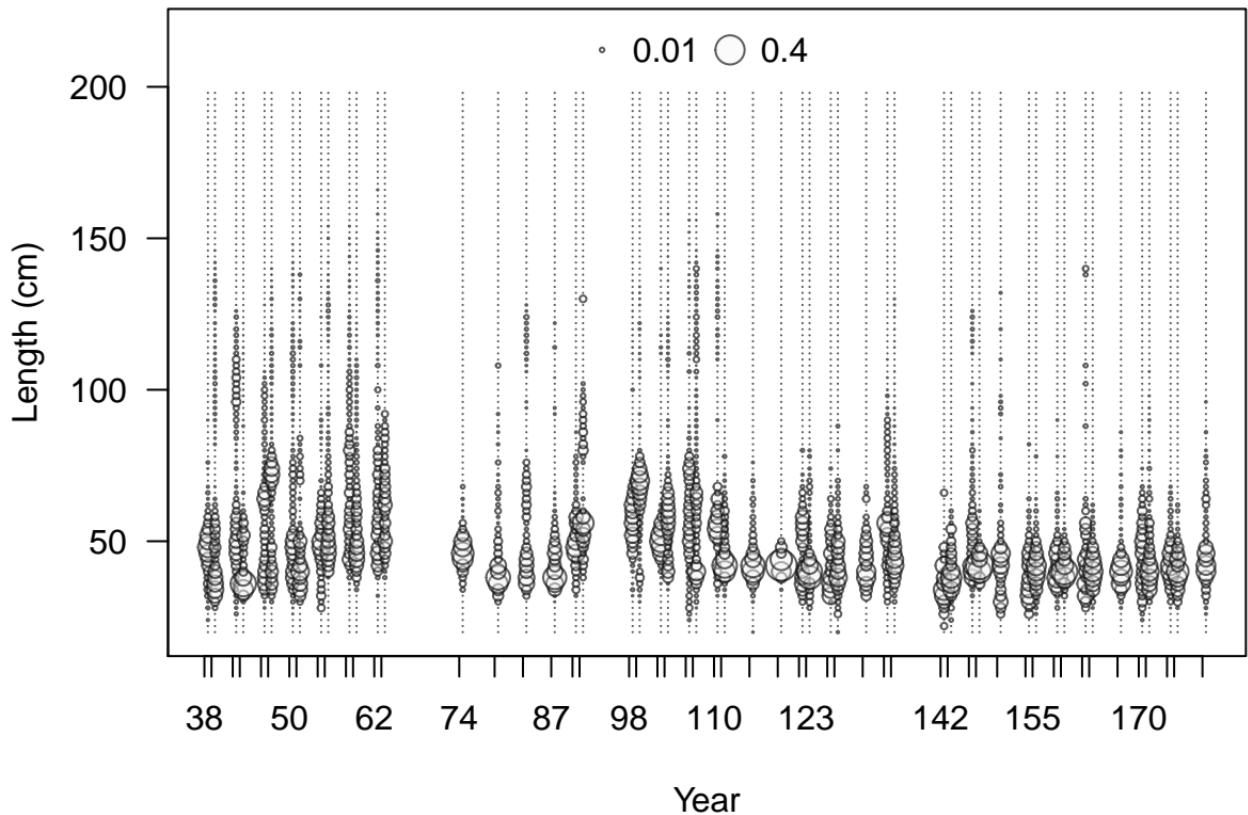
Proportion



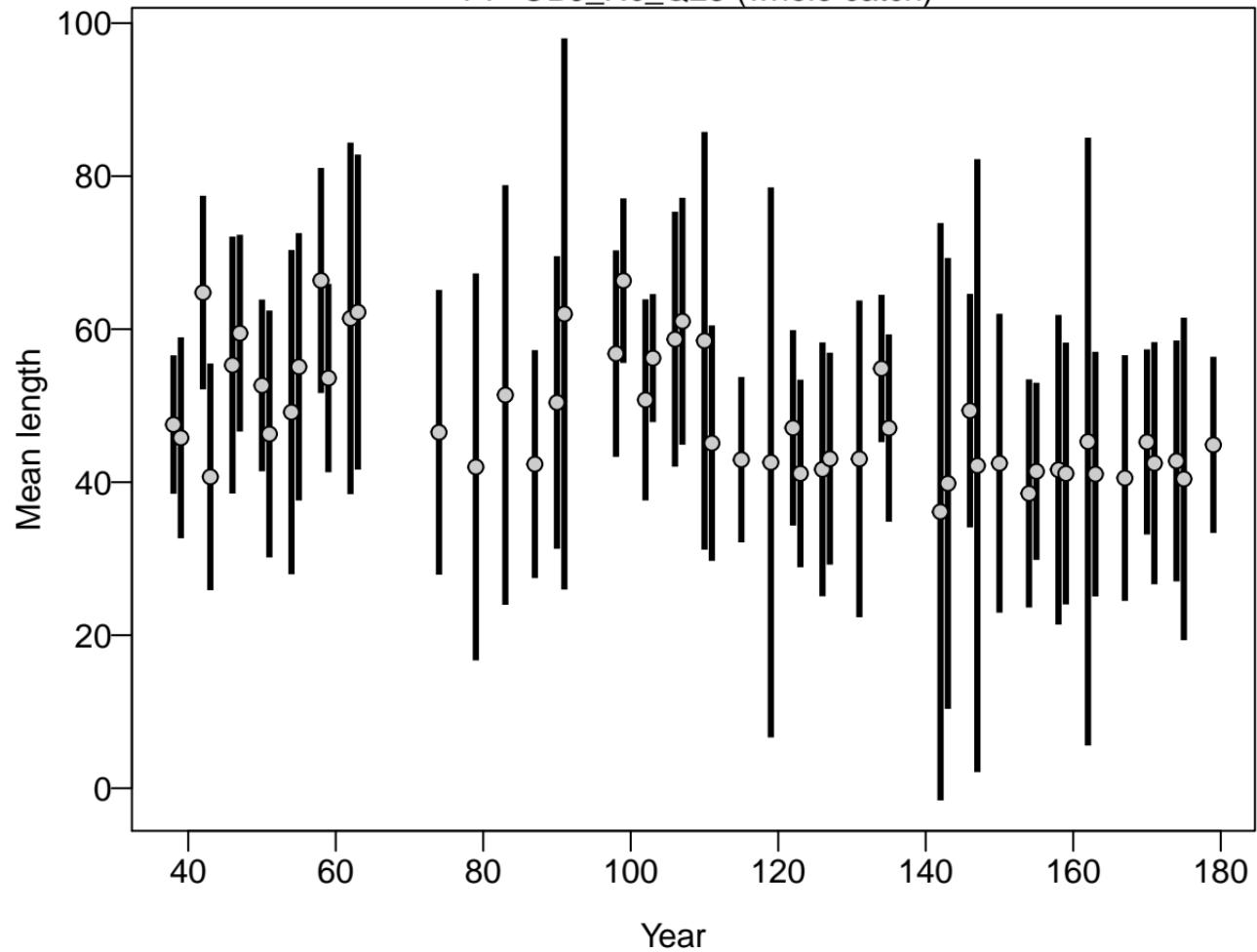
Proportion



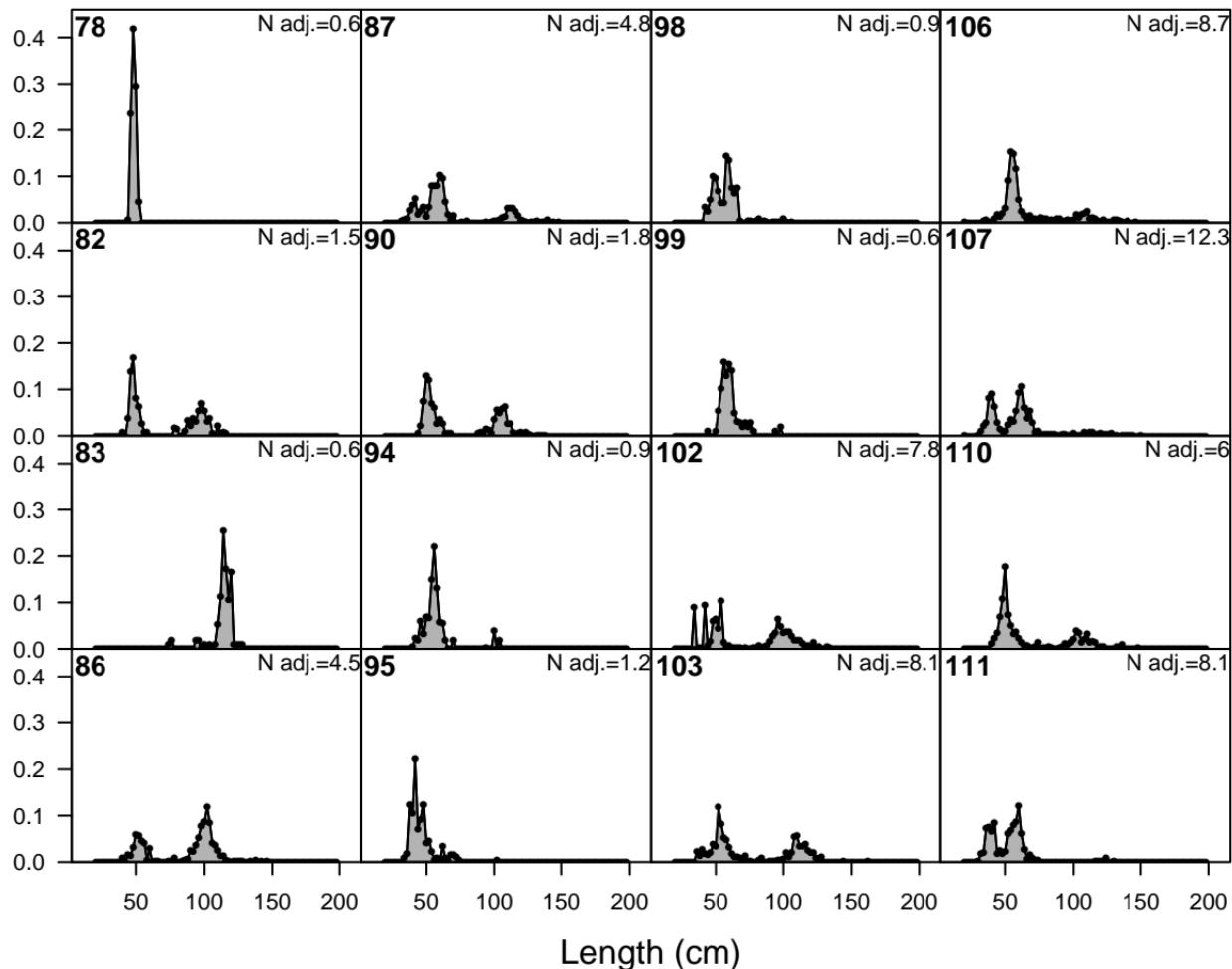




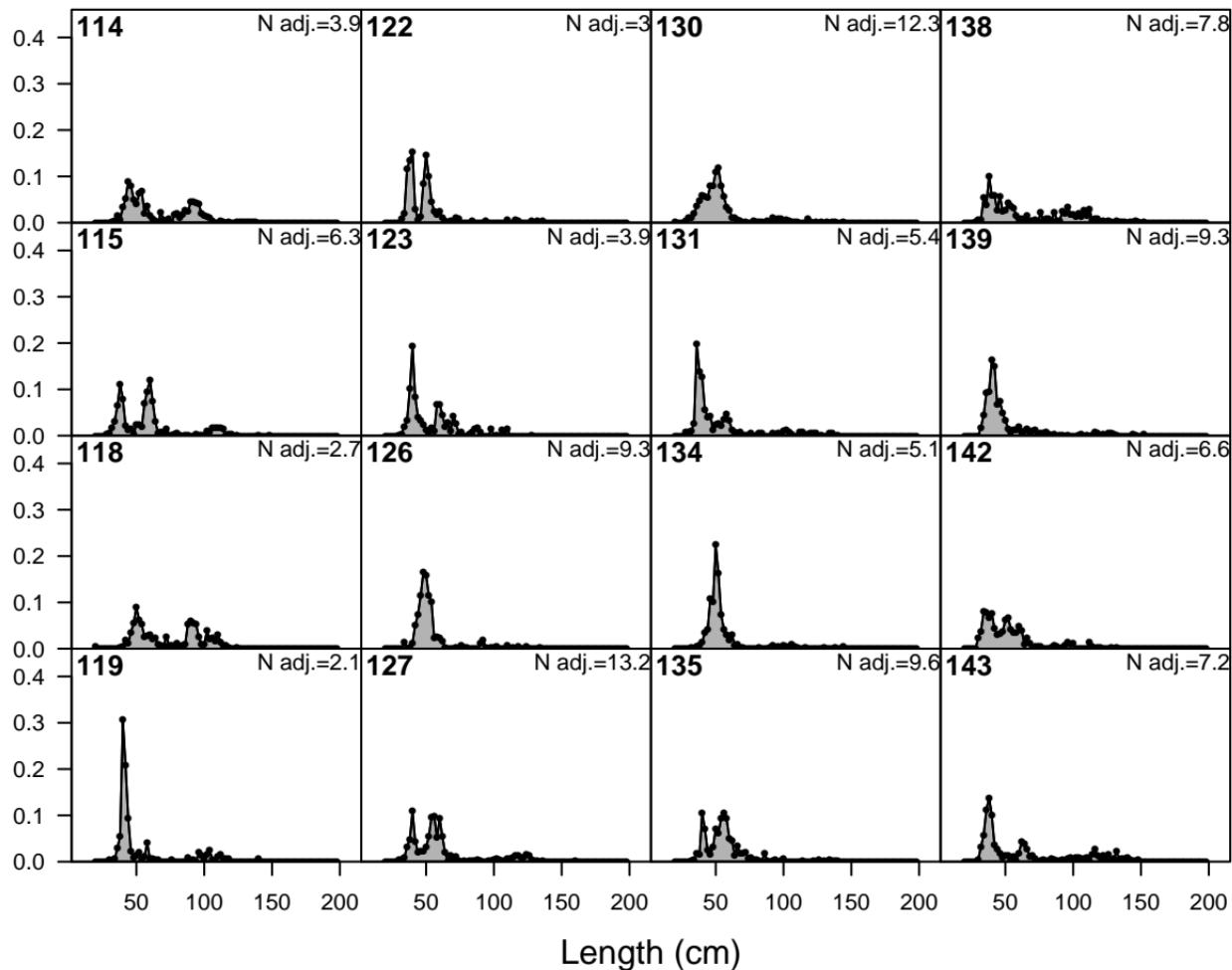
# F7-OBJ\_Nc\_Q23 (whole catch)



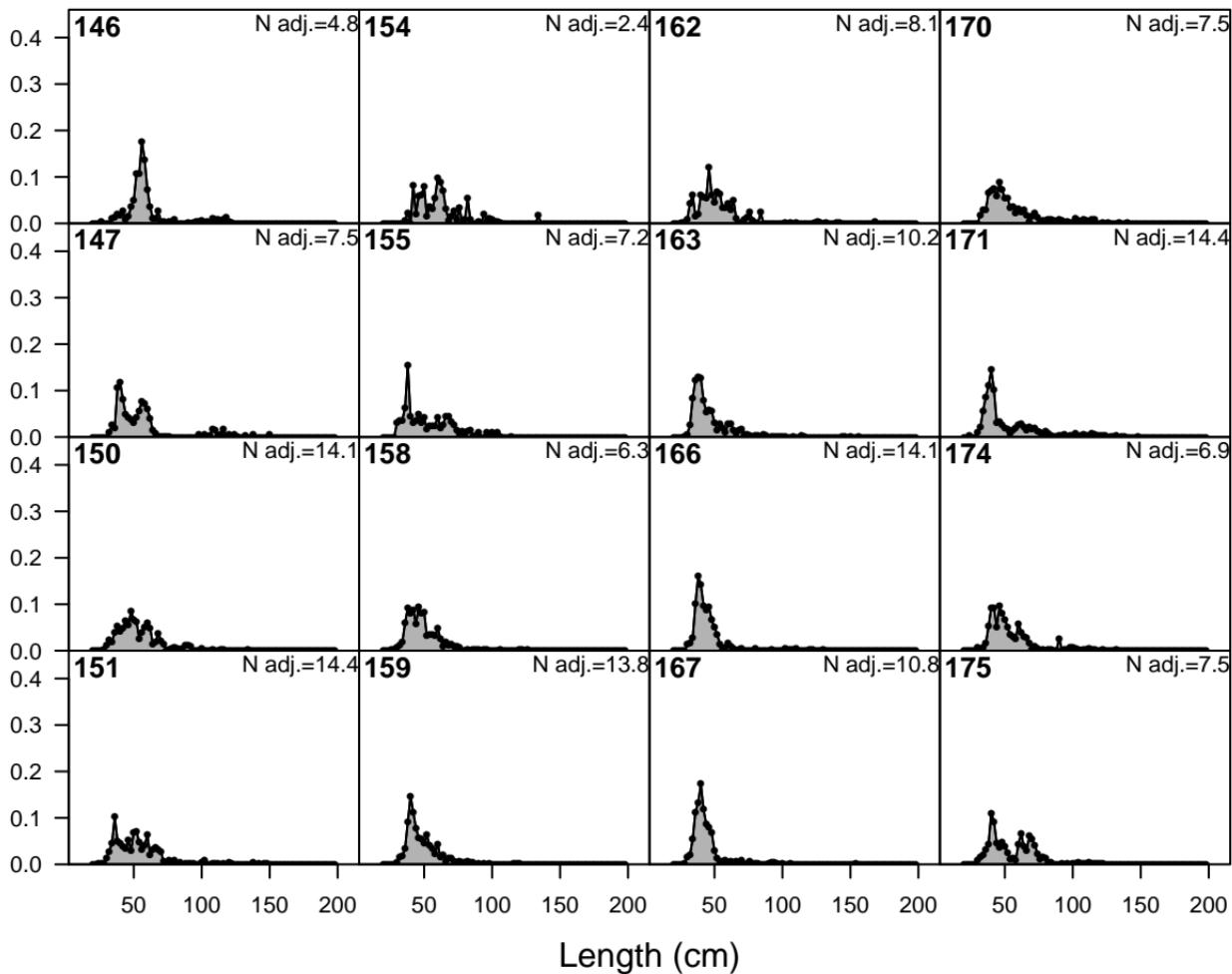
Proportion



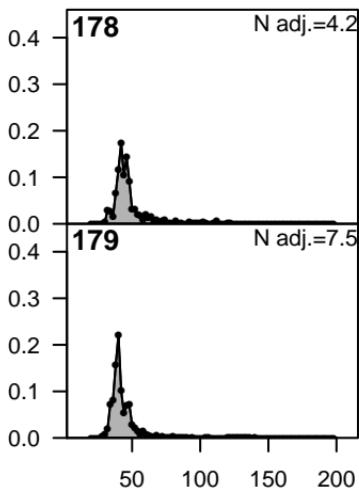
Proportion



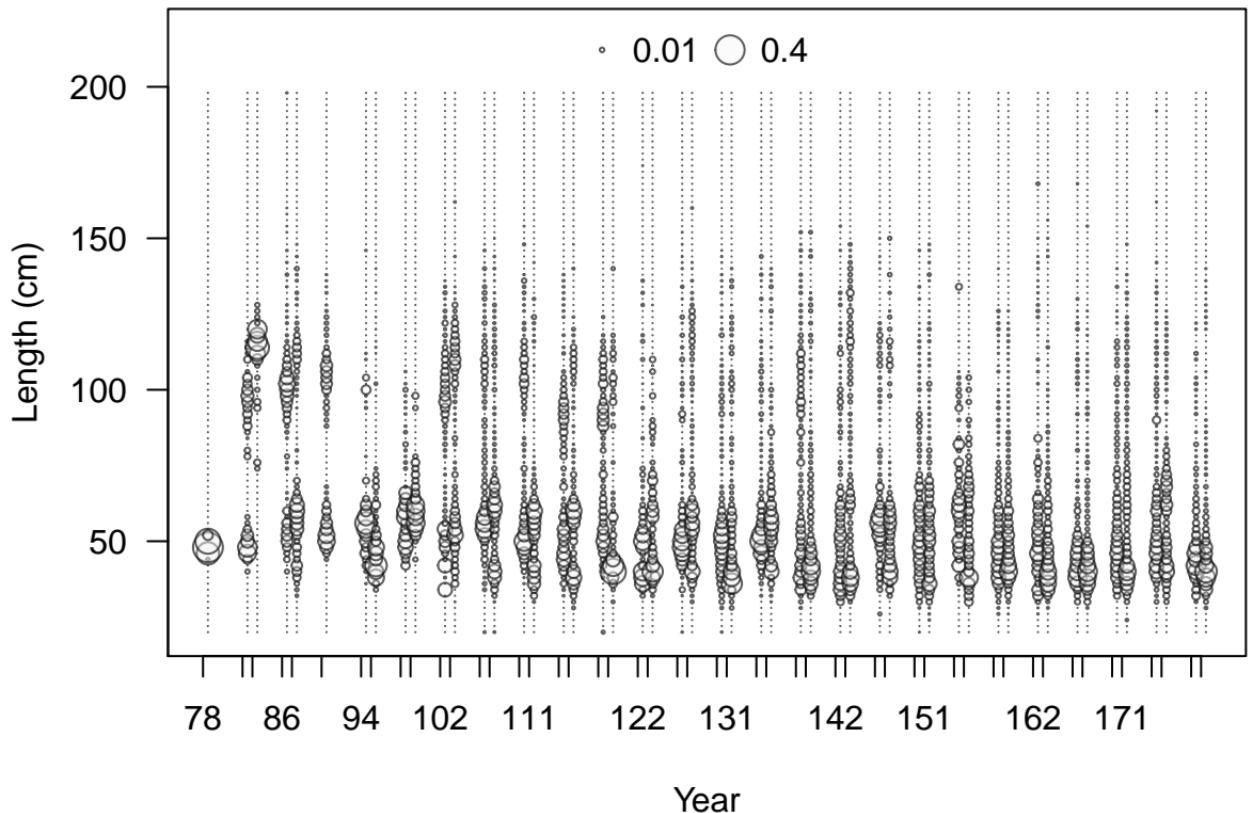
Proportion



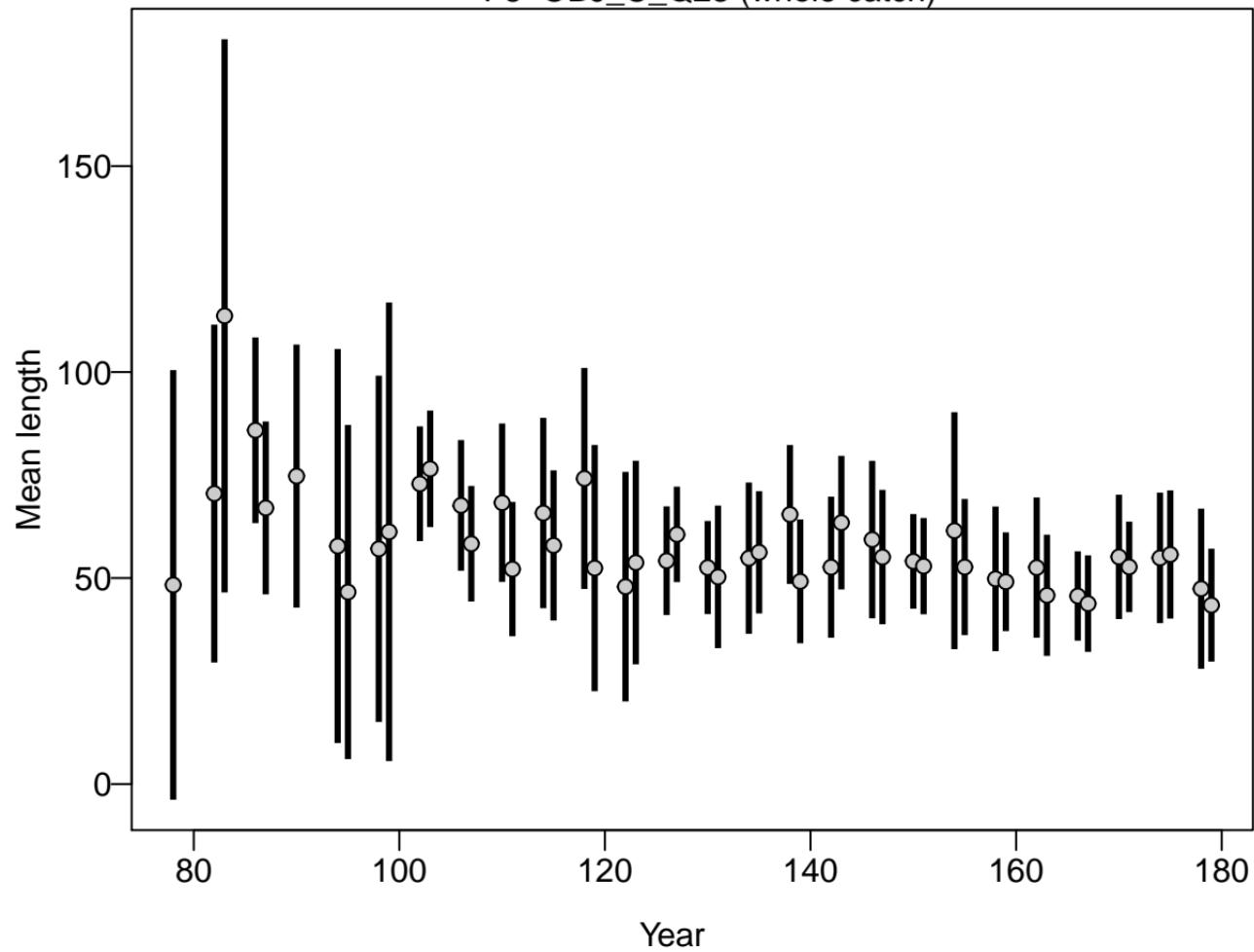
Proportion



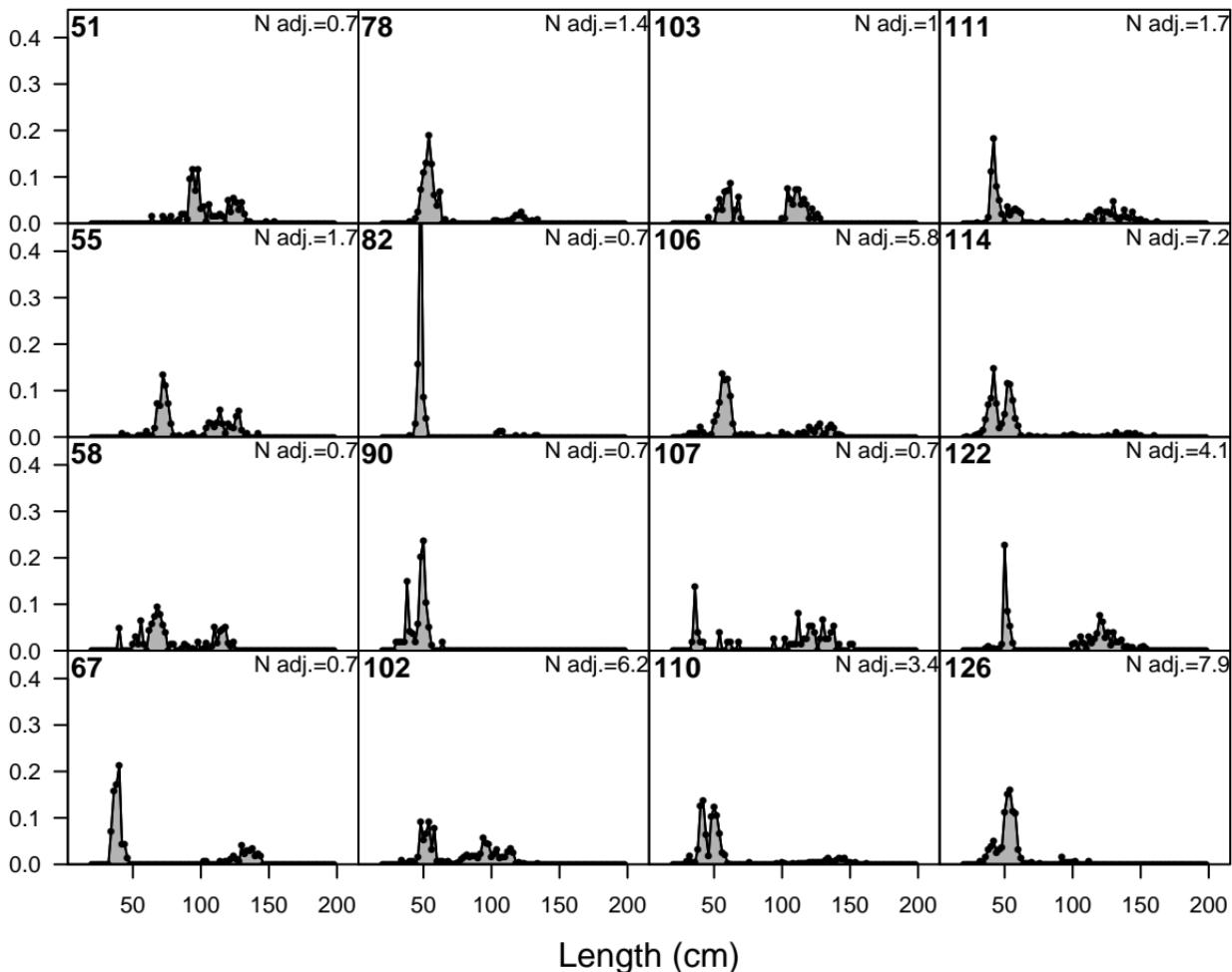
Length (cm)



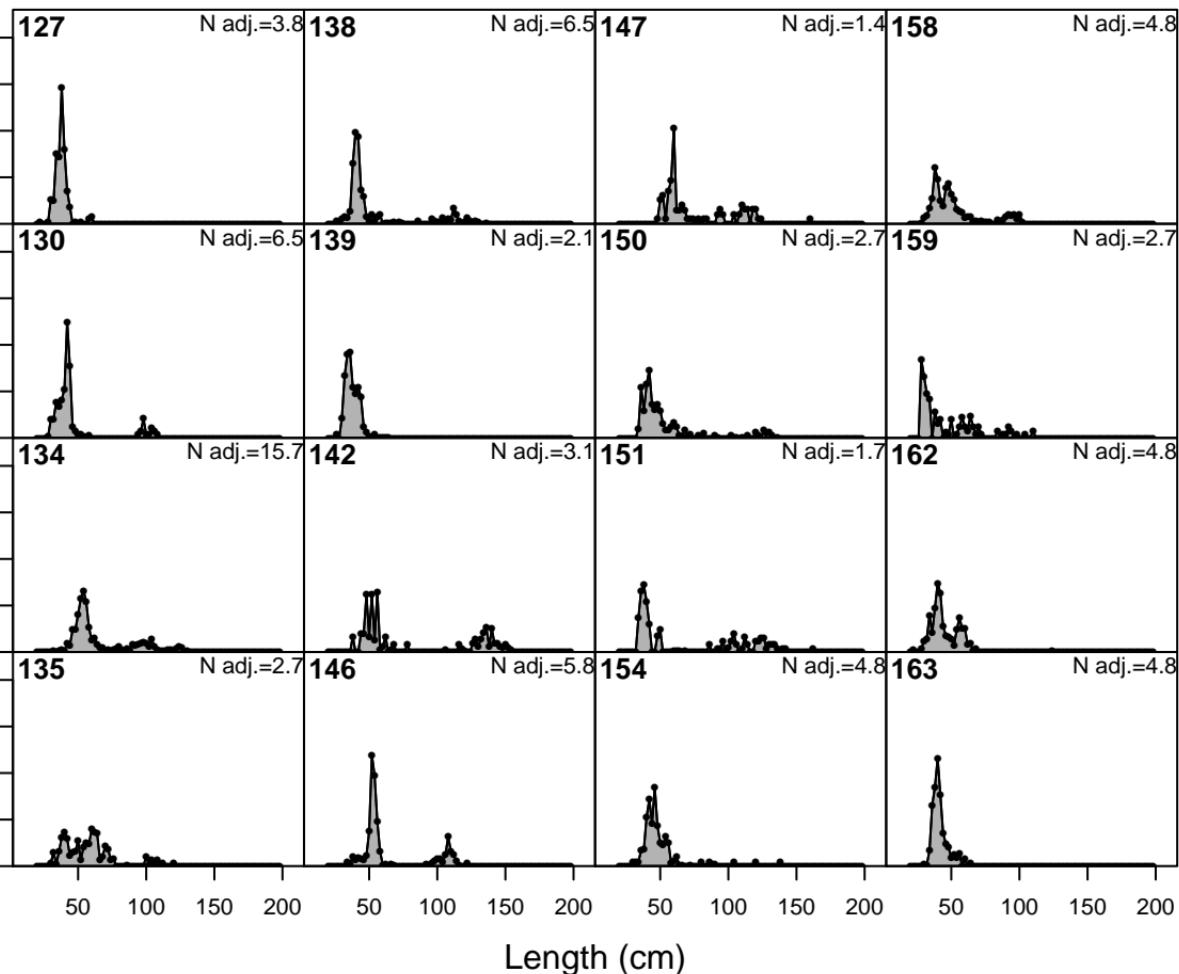
### F8-OBJ\_C\_Q23 (whole catch)

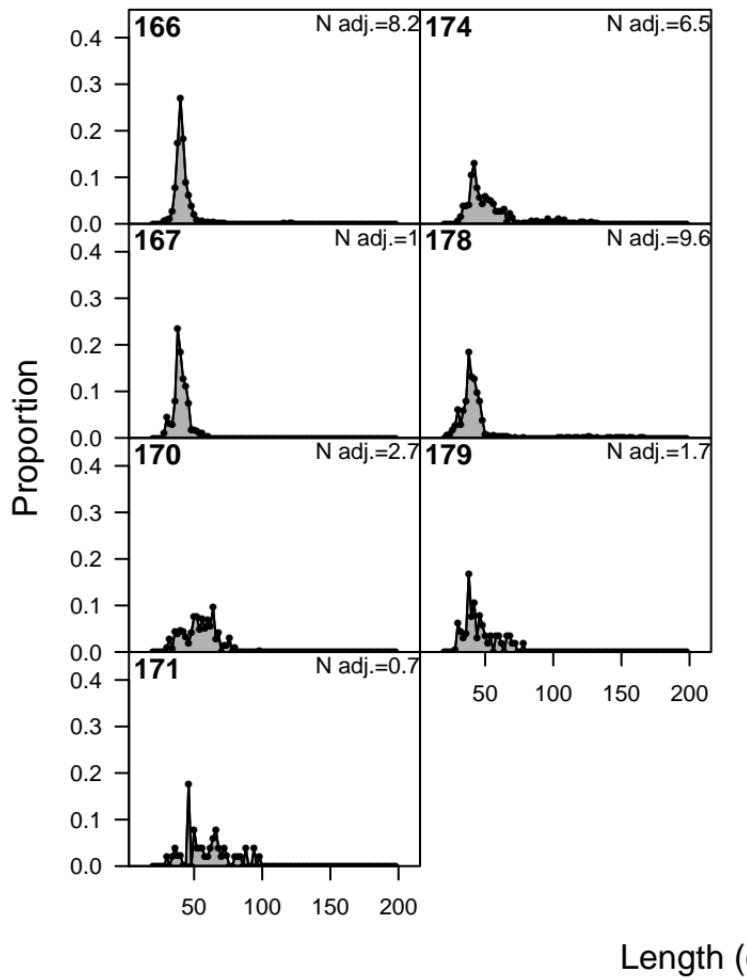


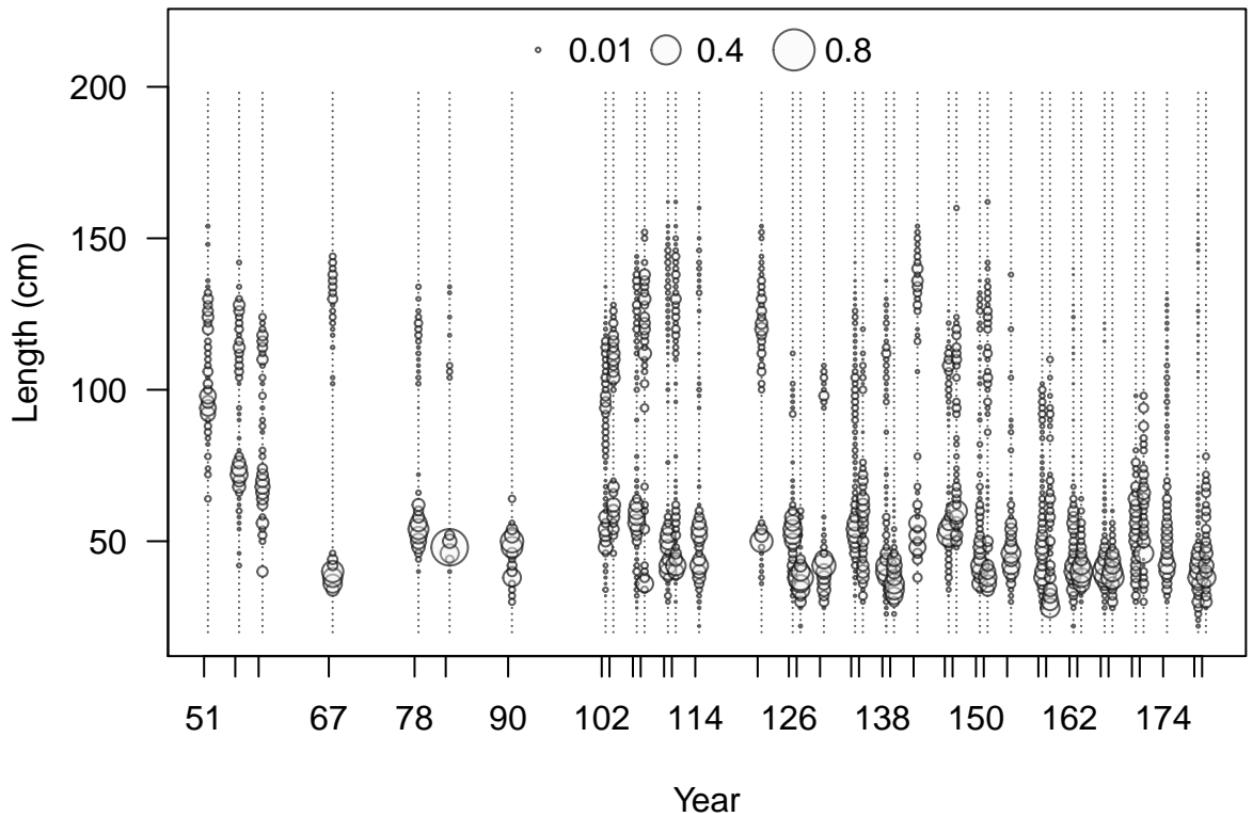
Proportion



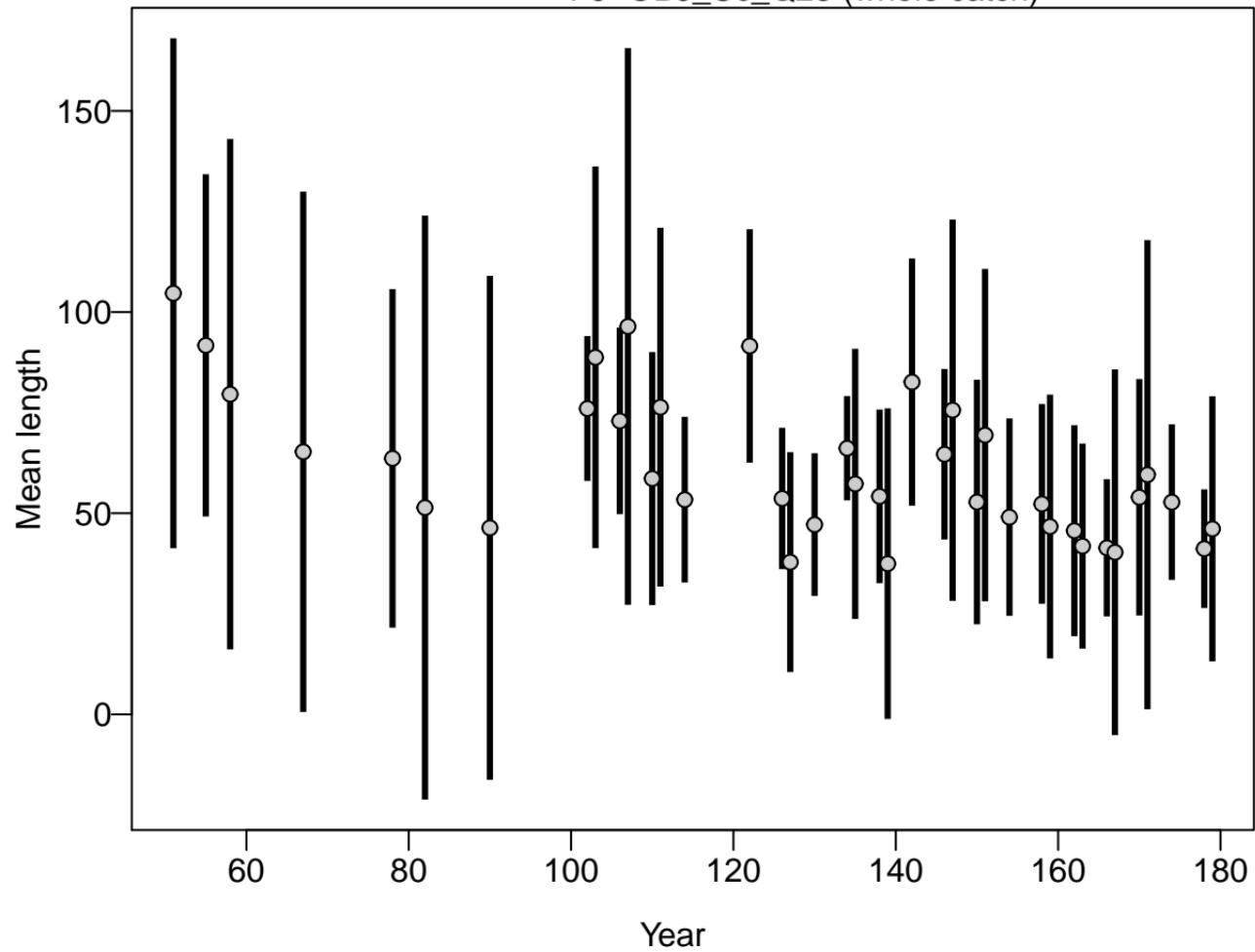
Proportion

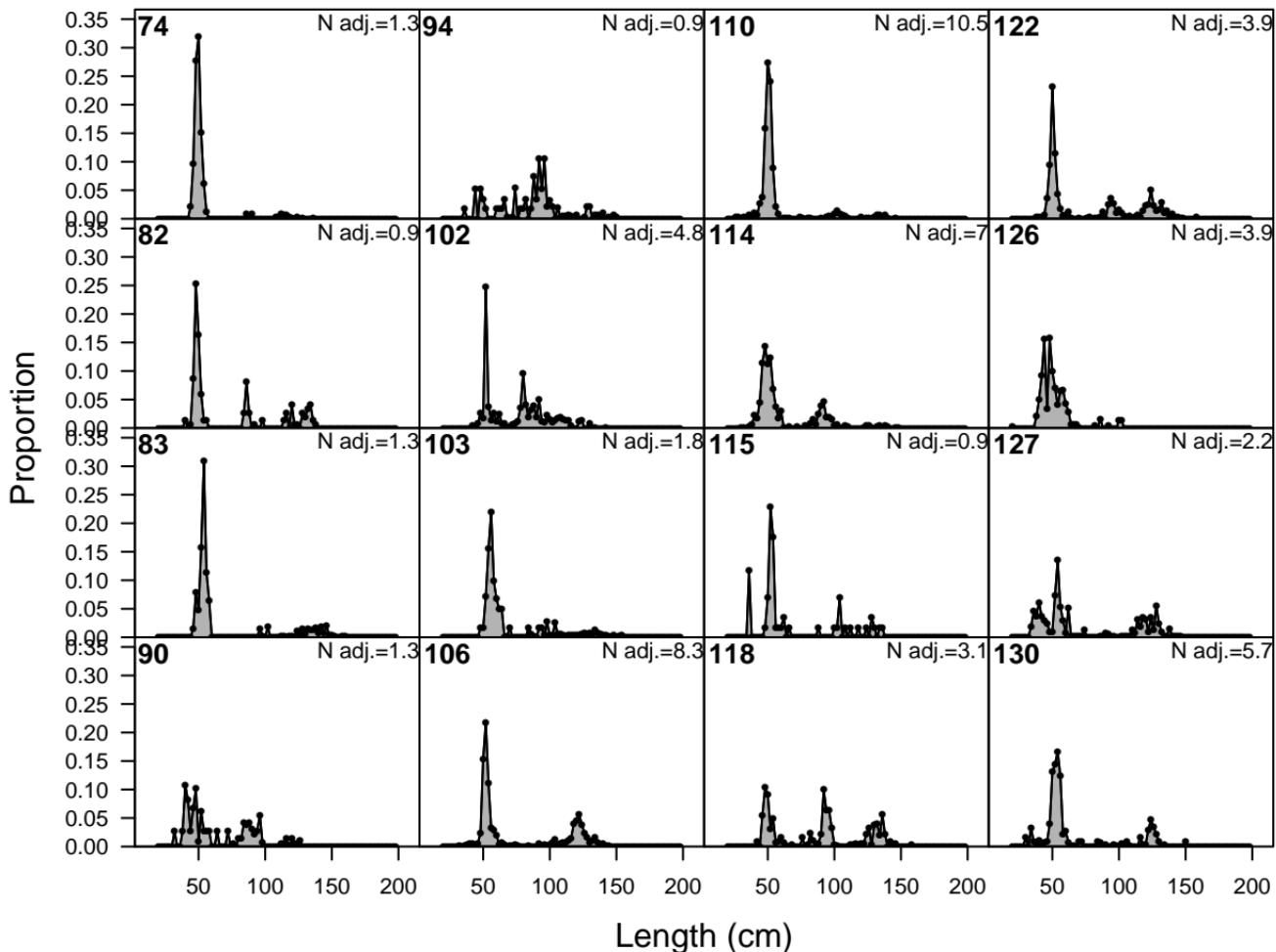


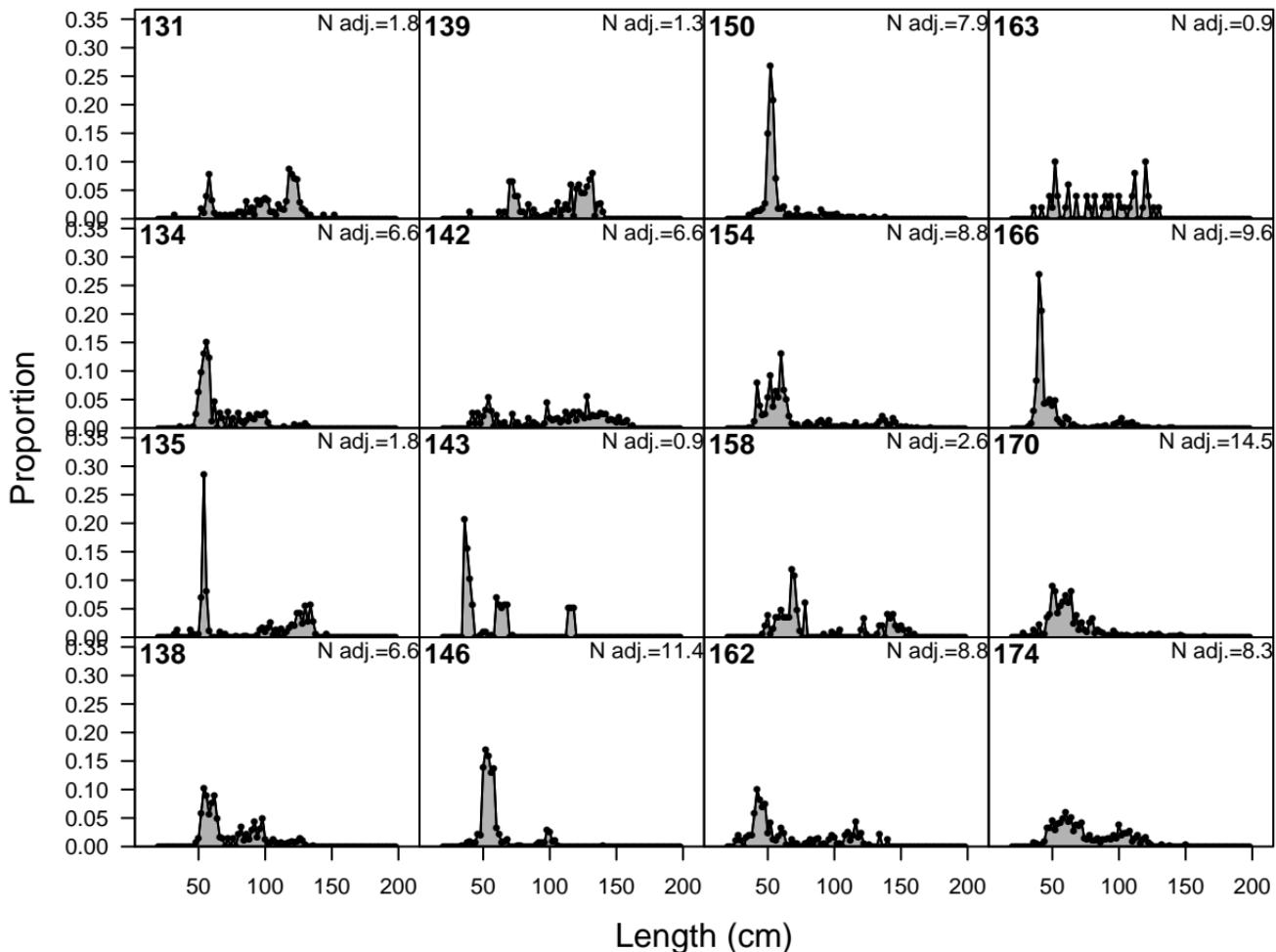


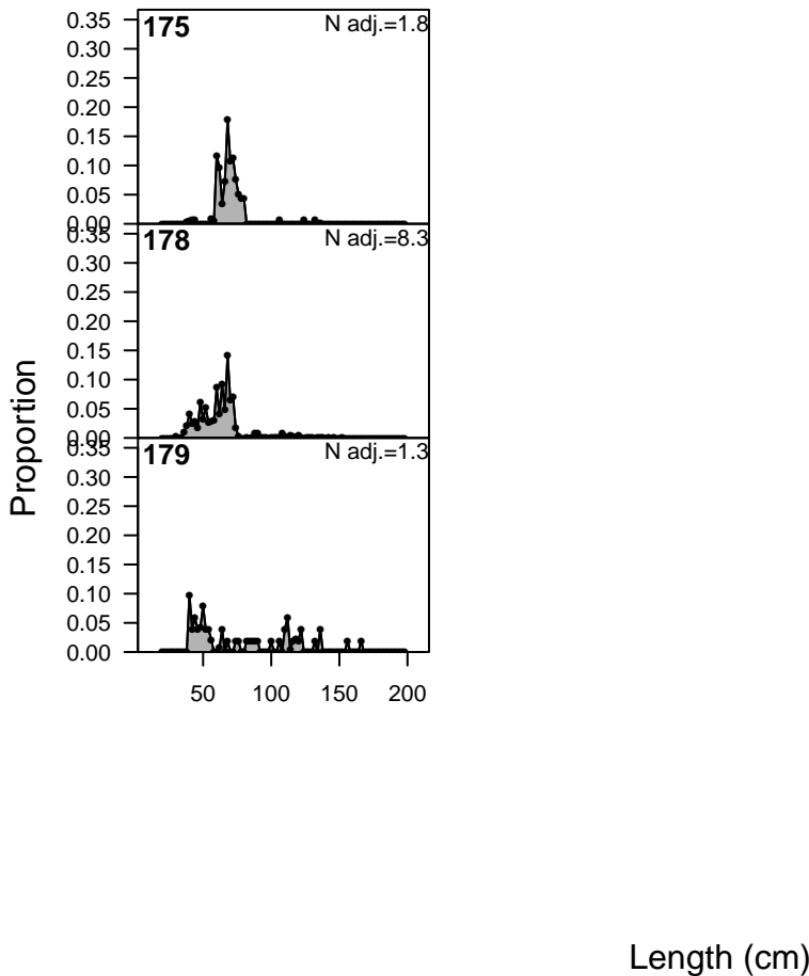


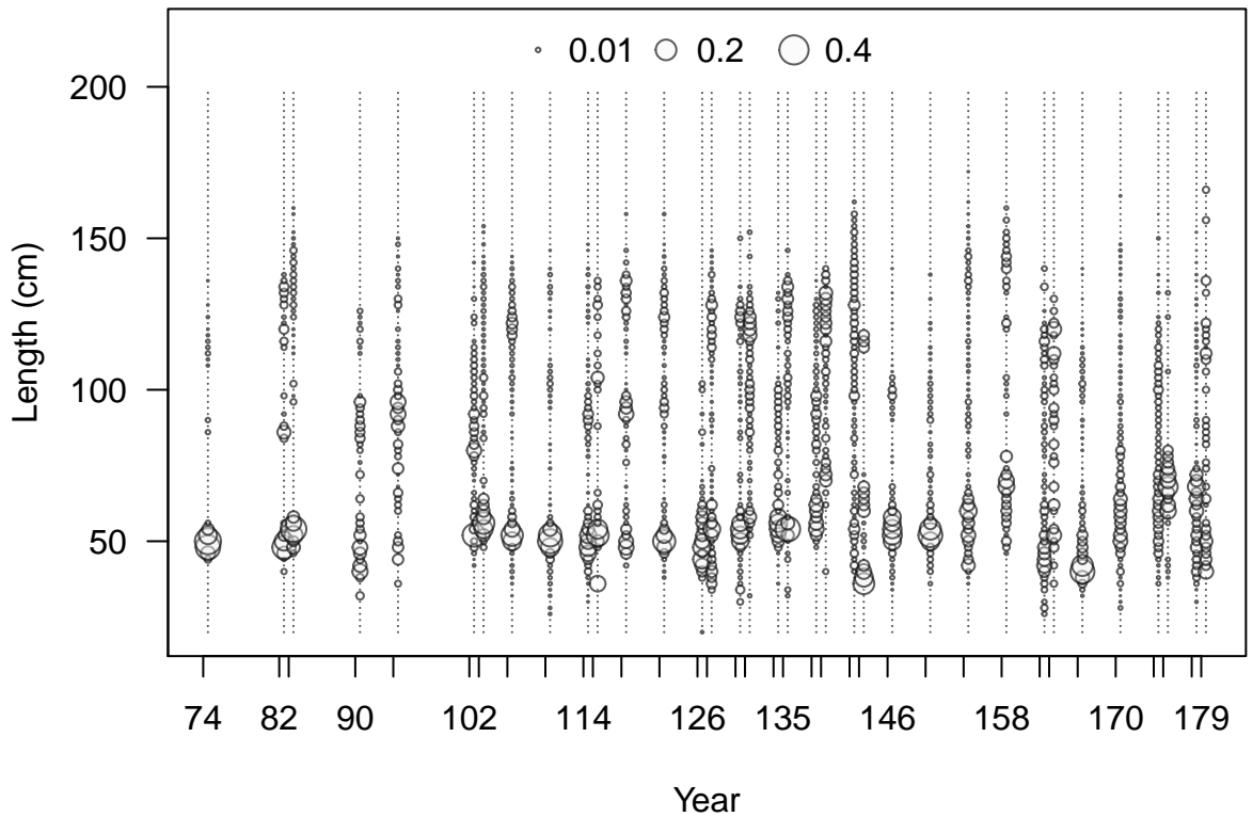
# F9-OBJ\_Cc\_Q23 (whole catch)



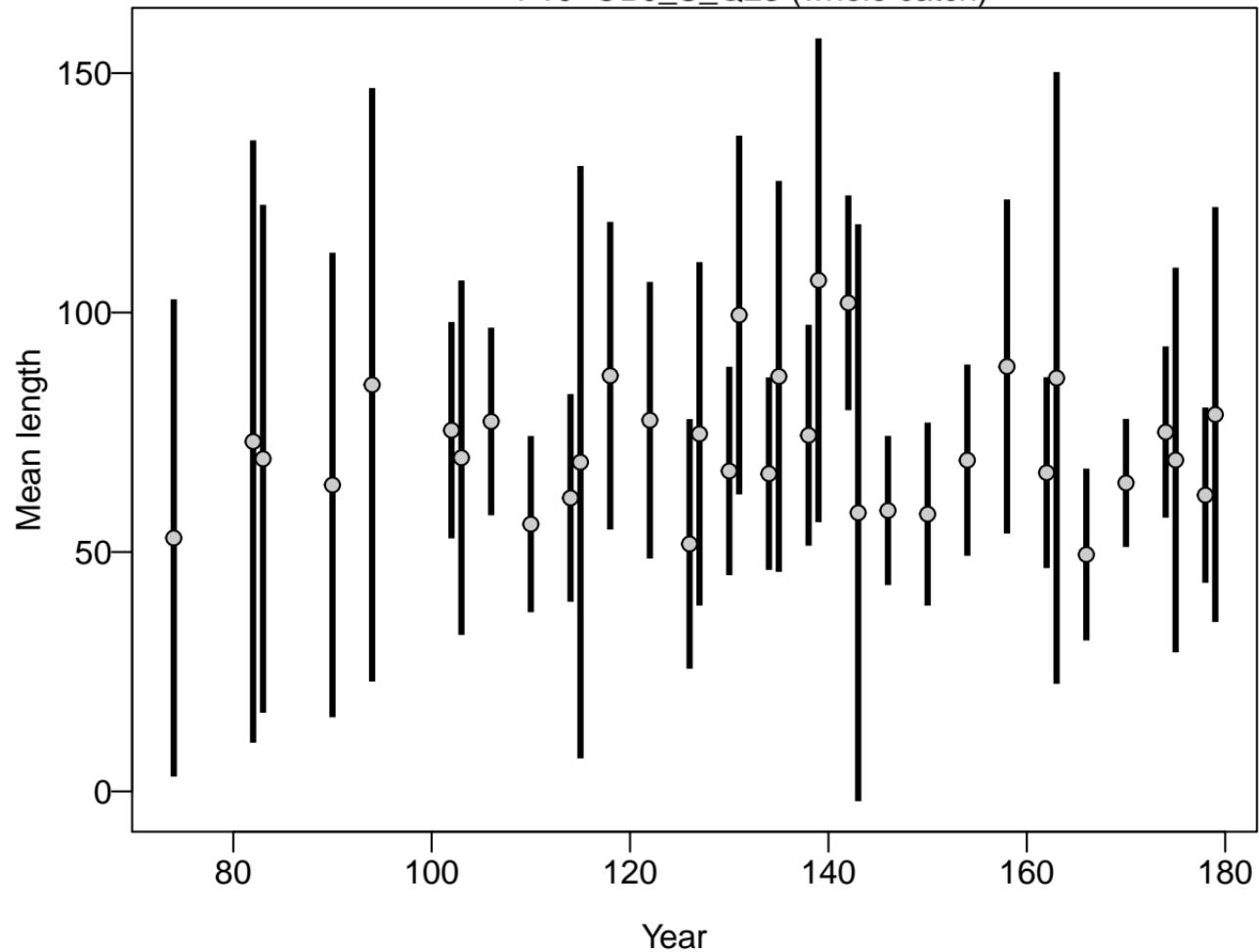


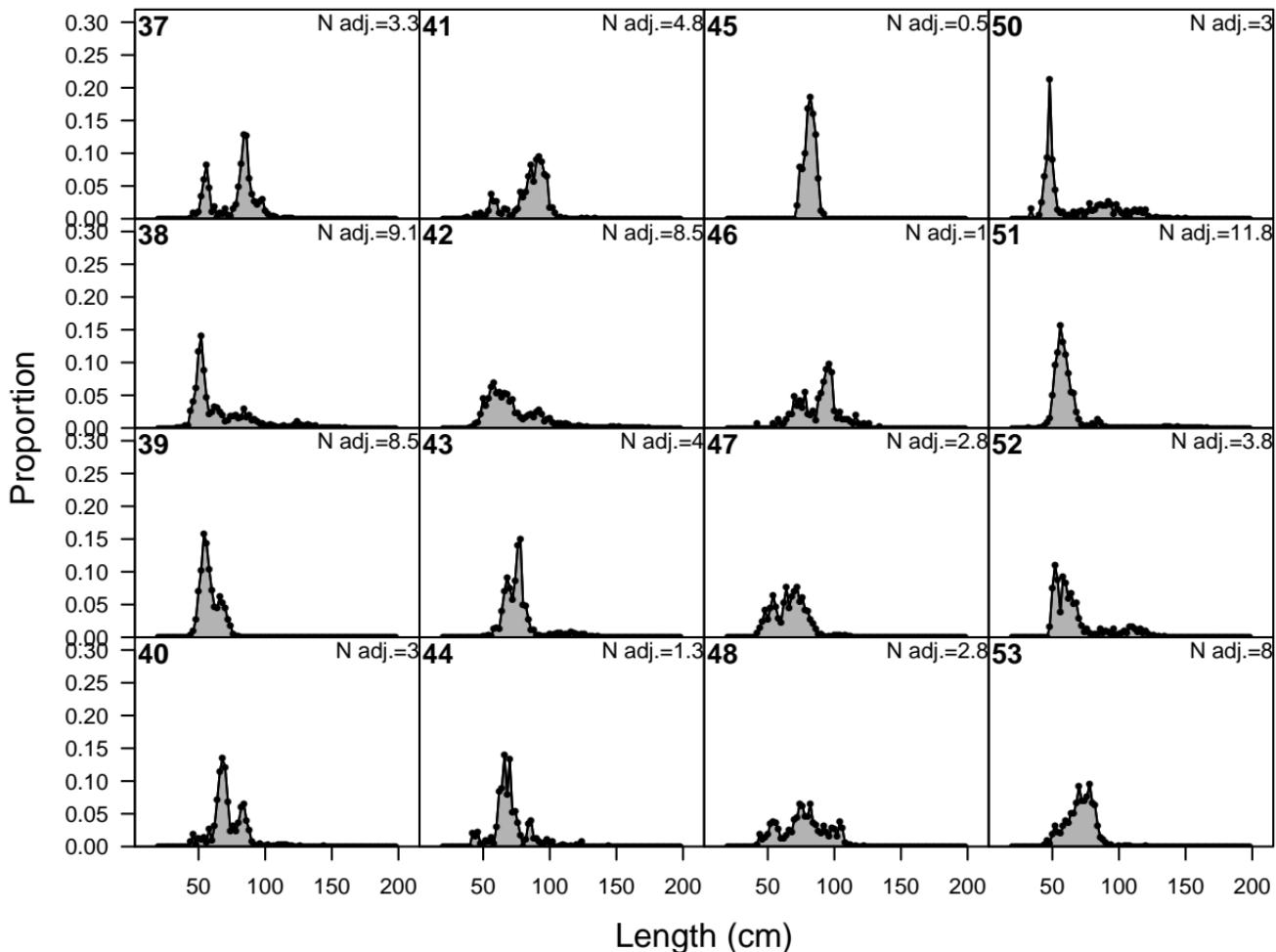


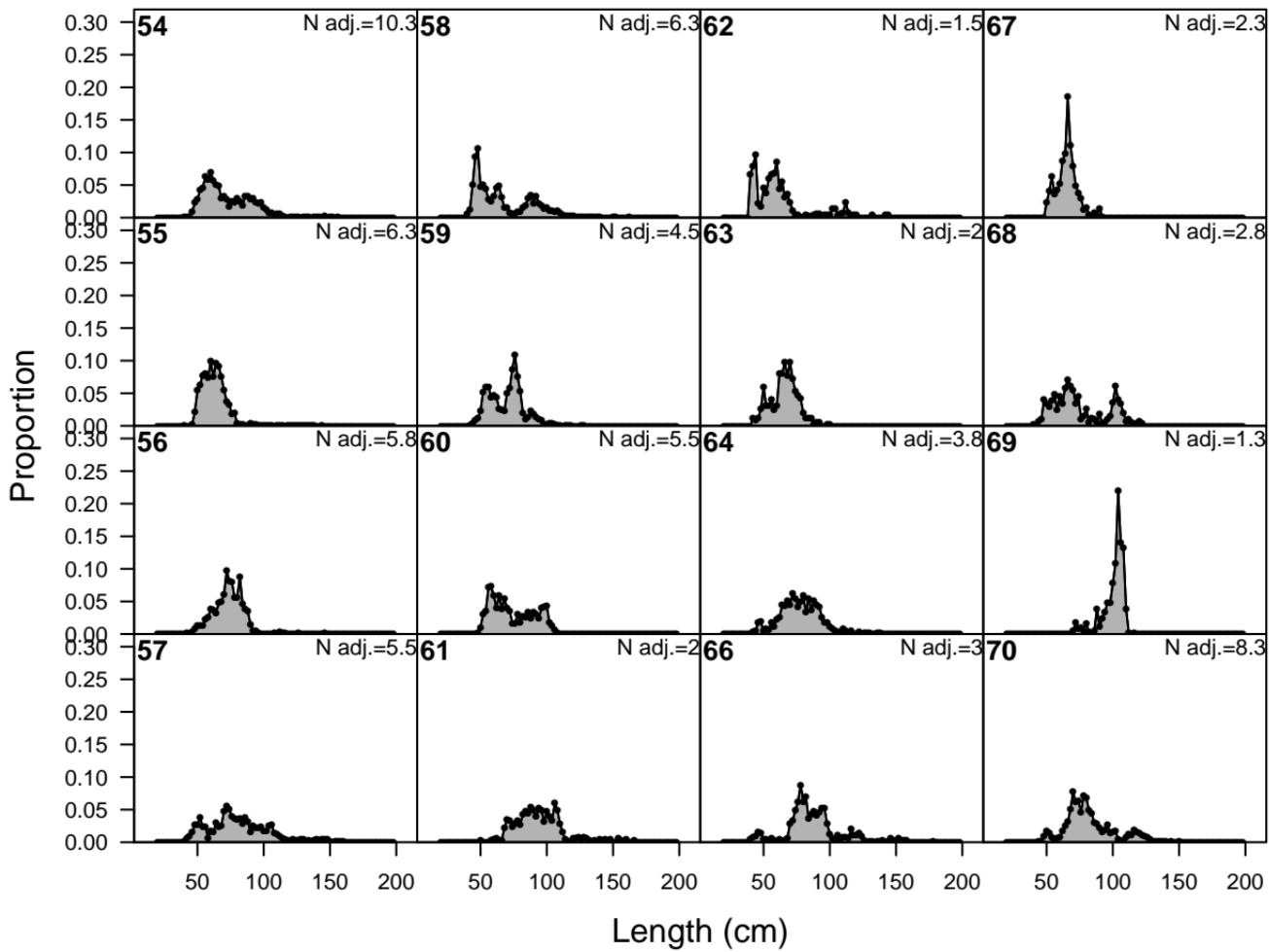


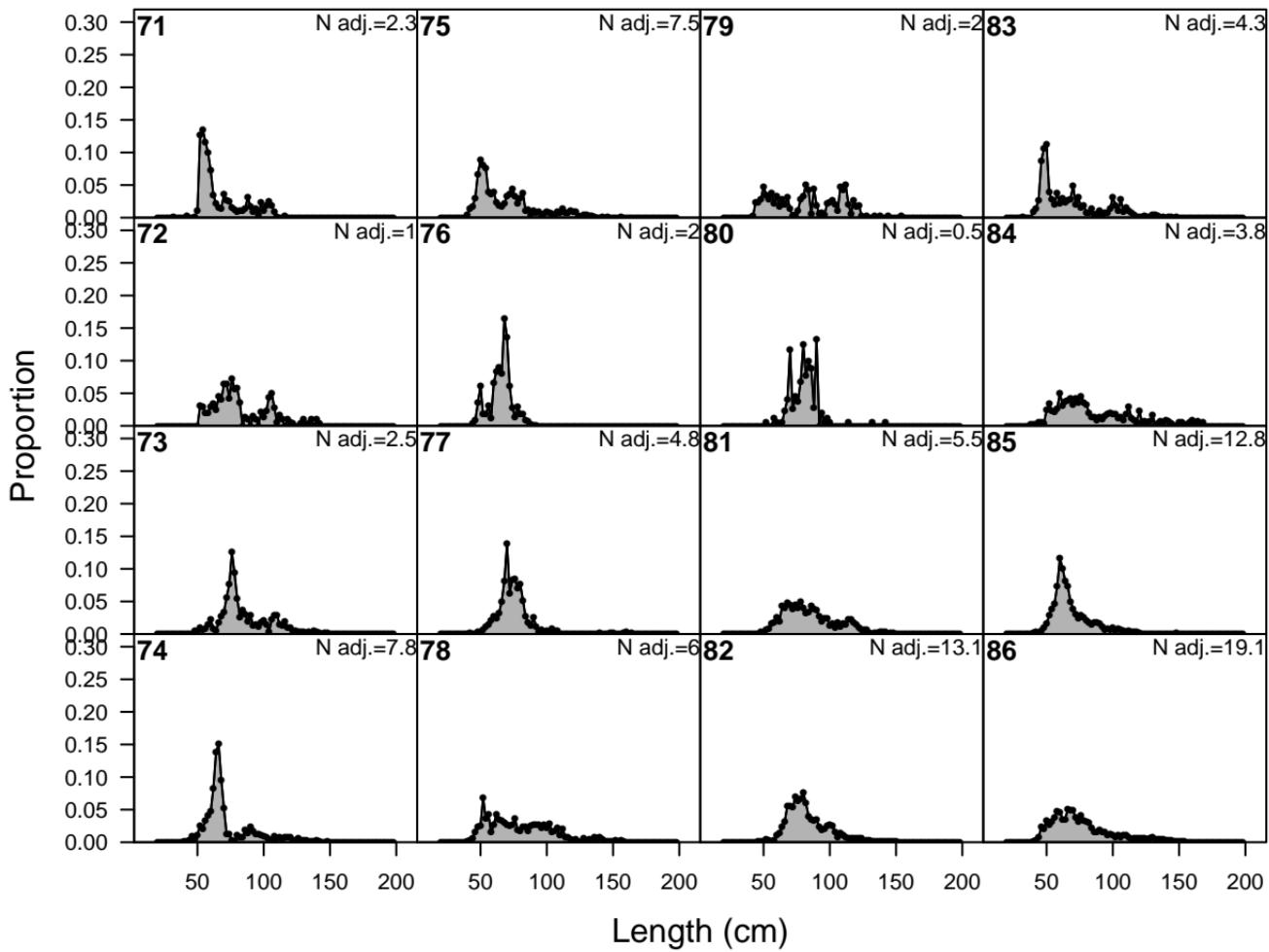


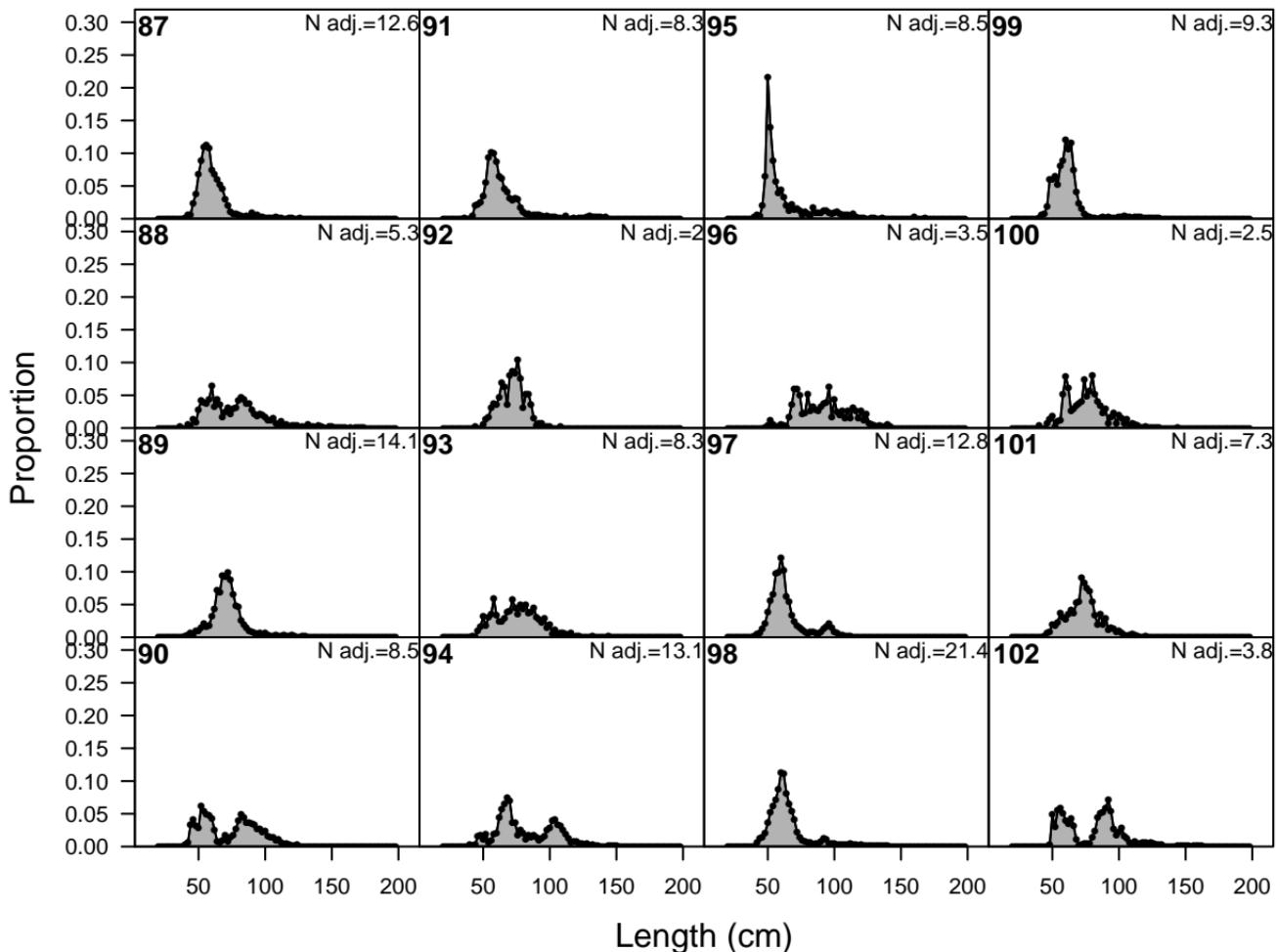
# F10-OBJ\_S\_Q23 (whole catch)

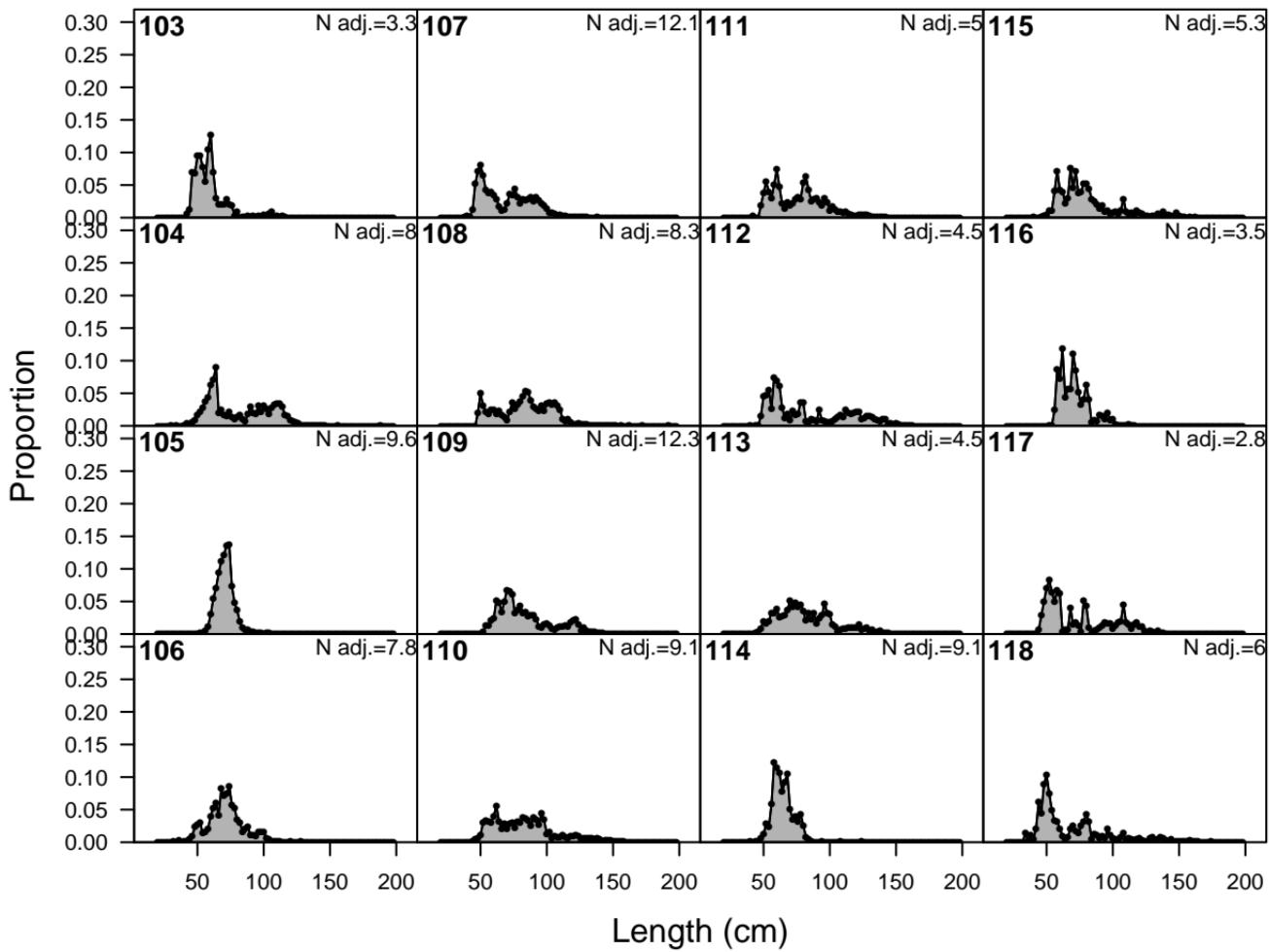


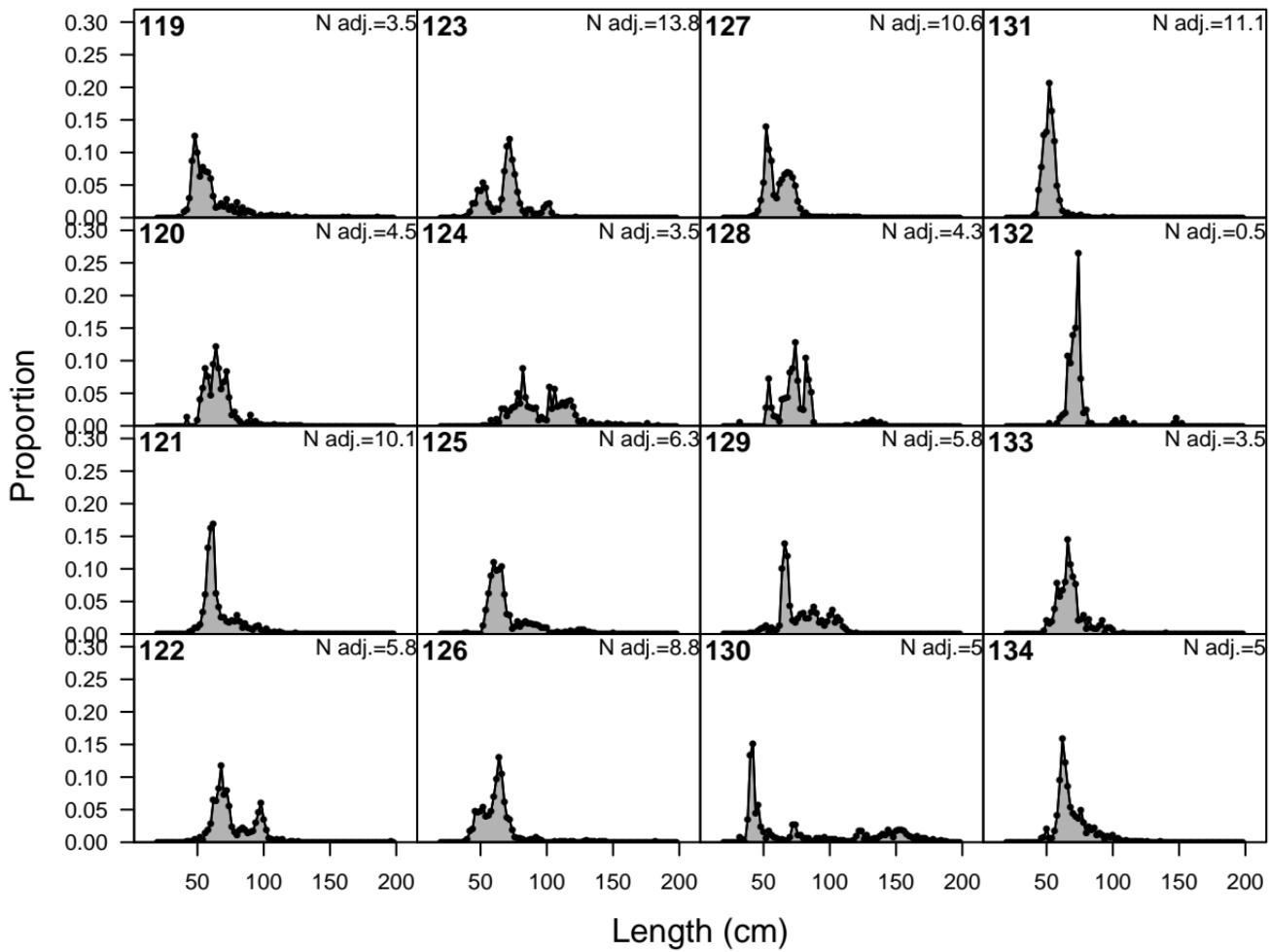


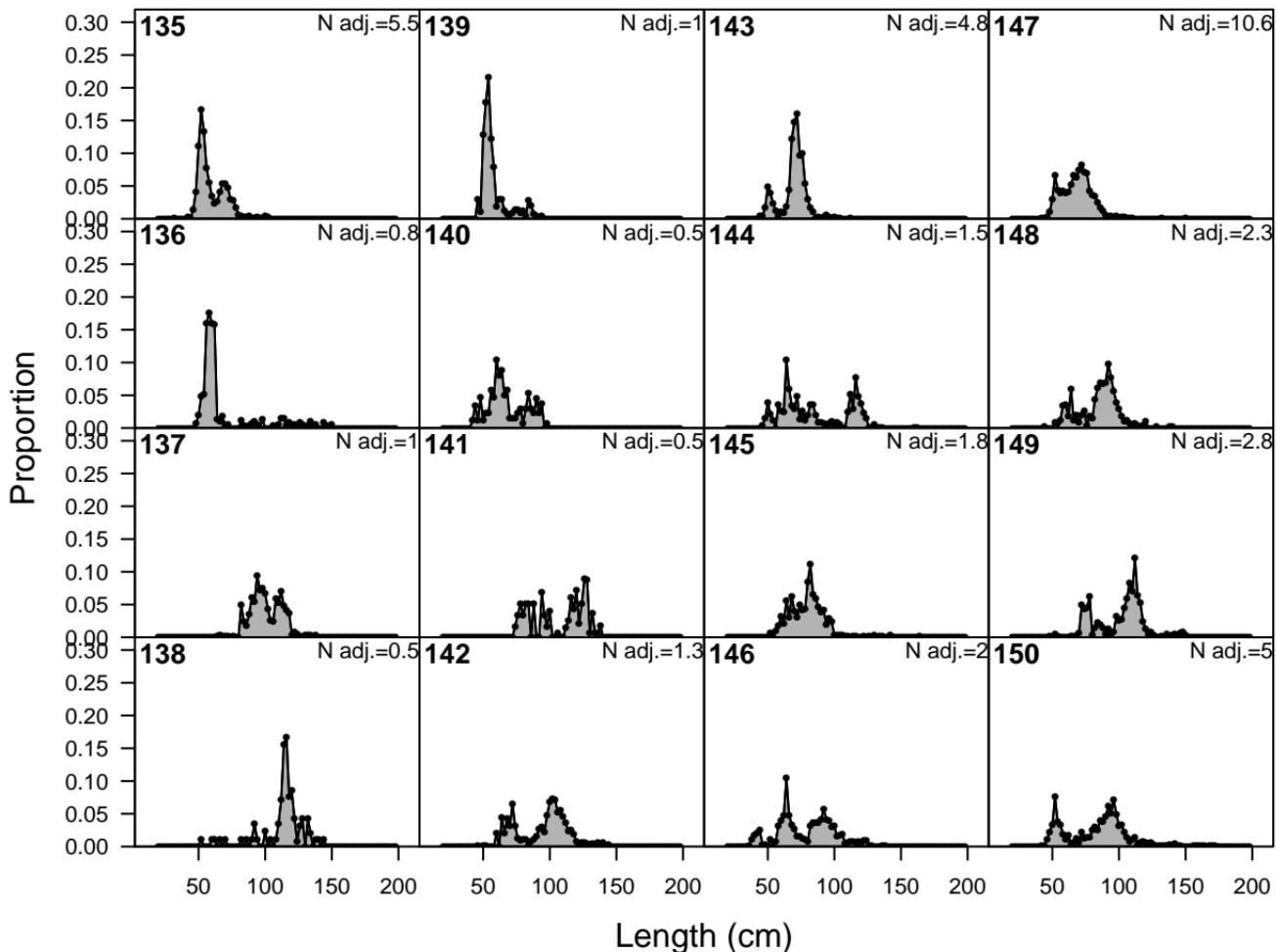


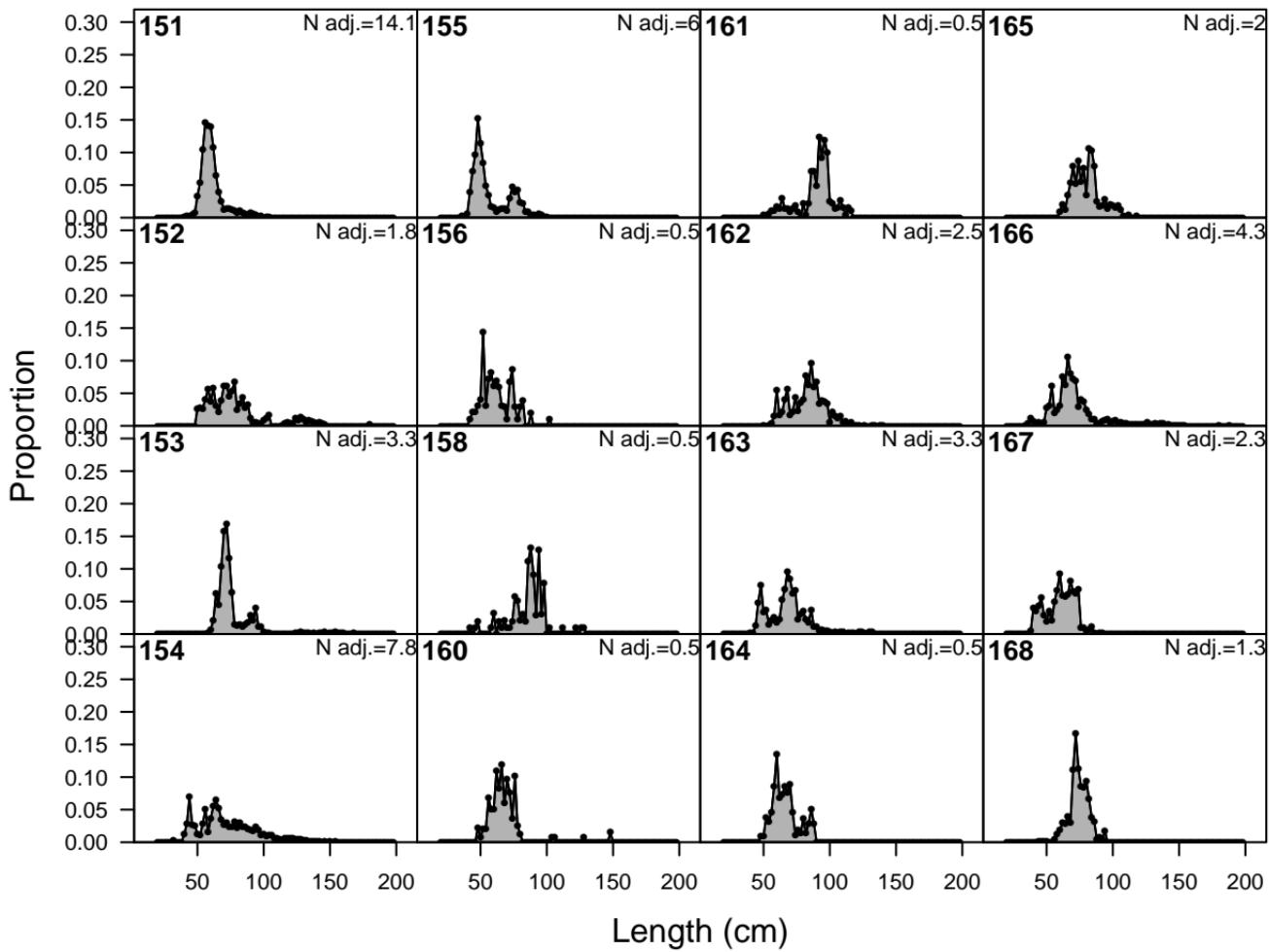


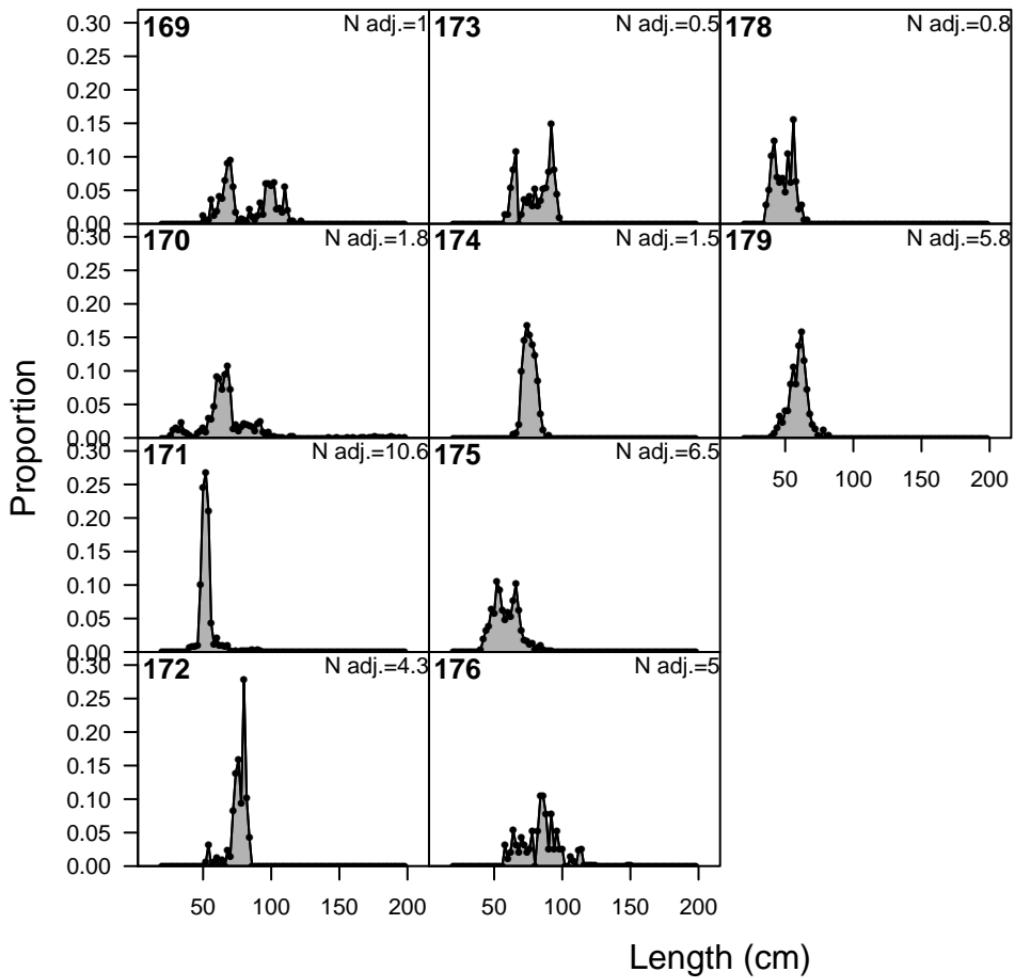


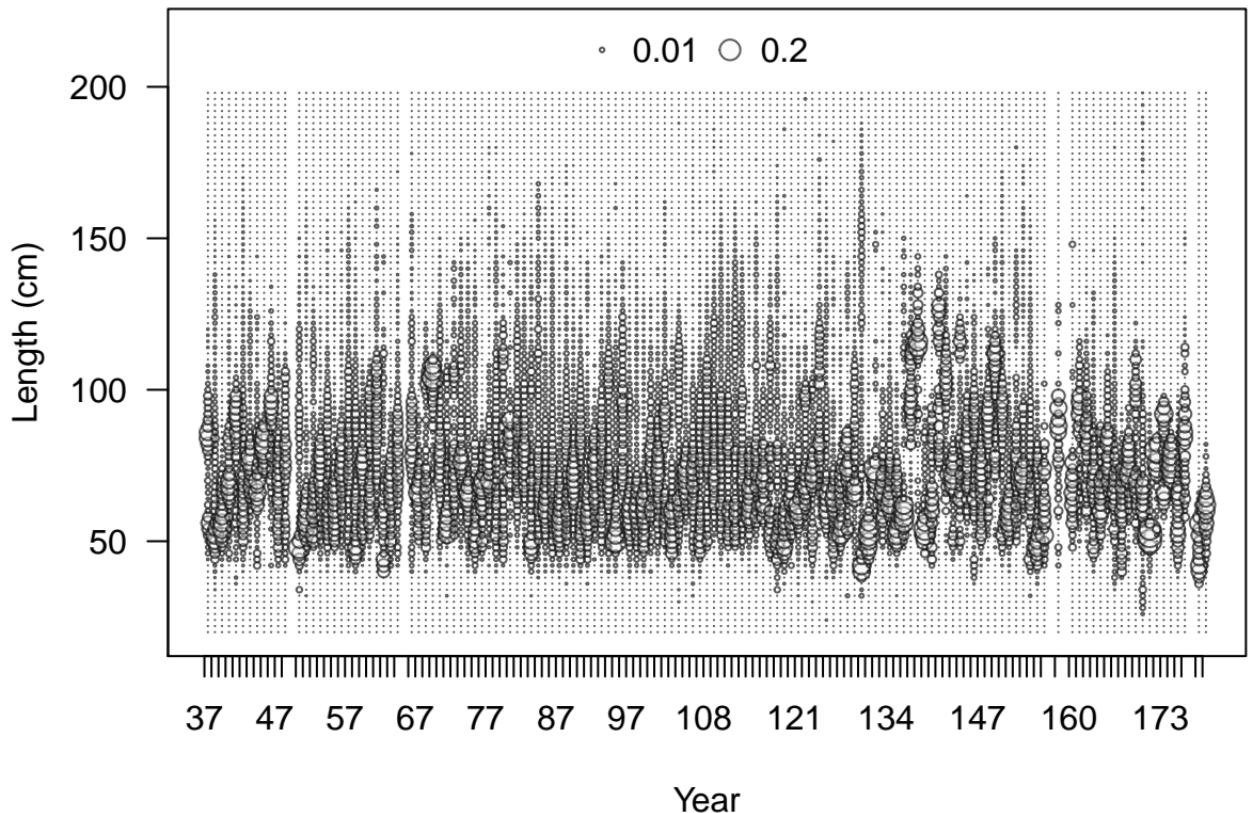




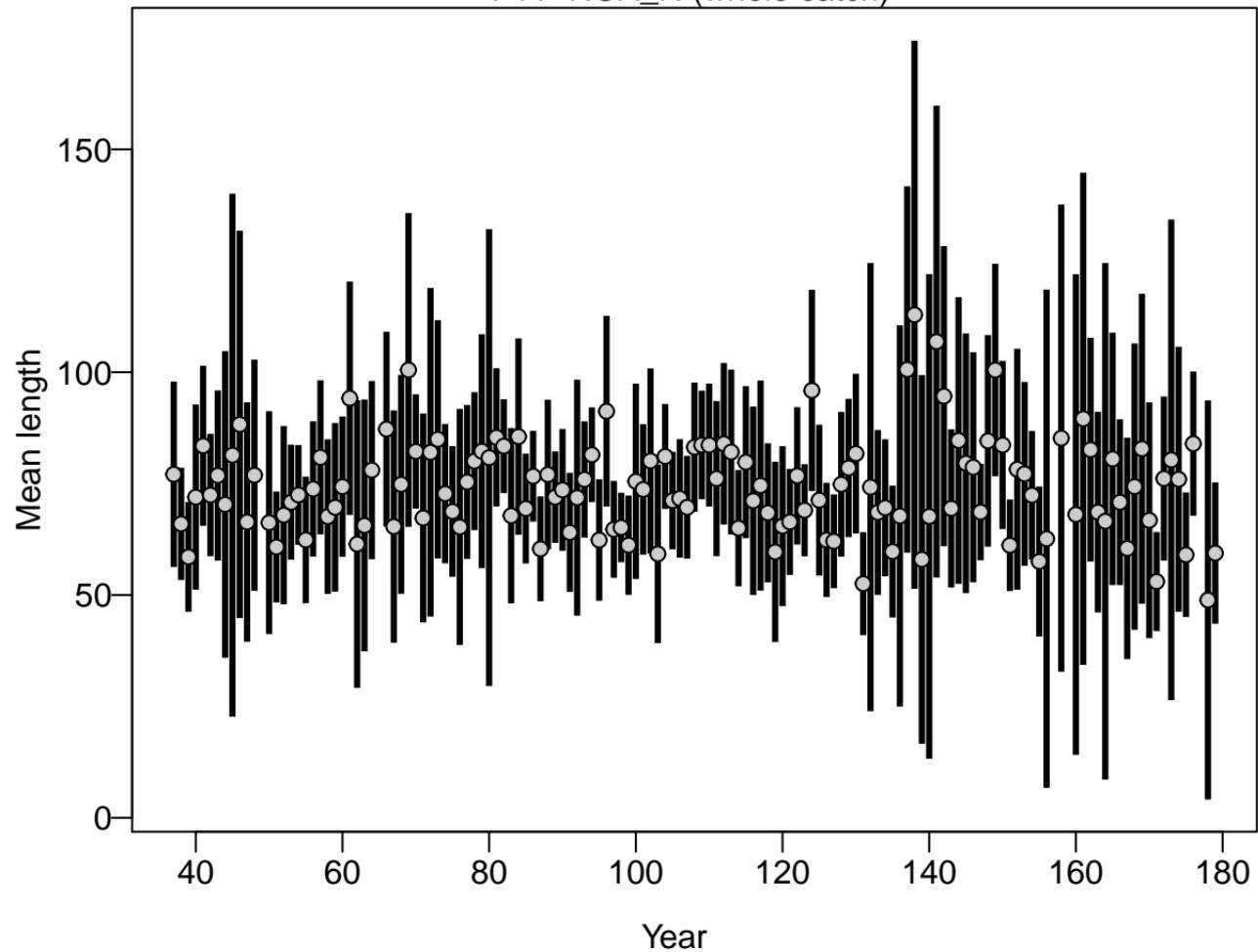




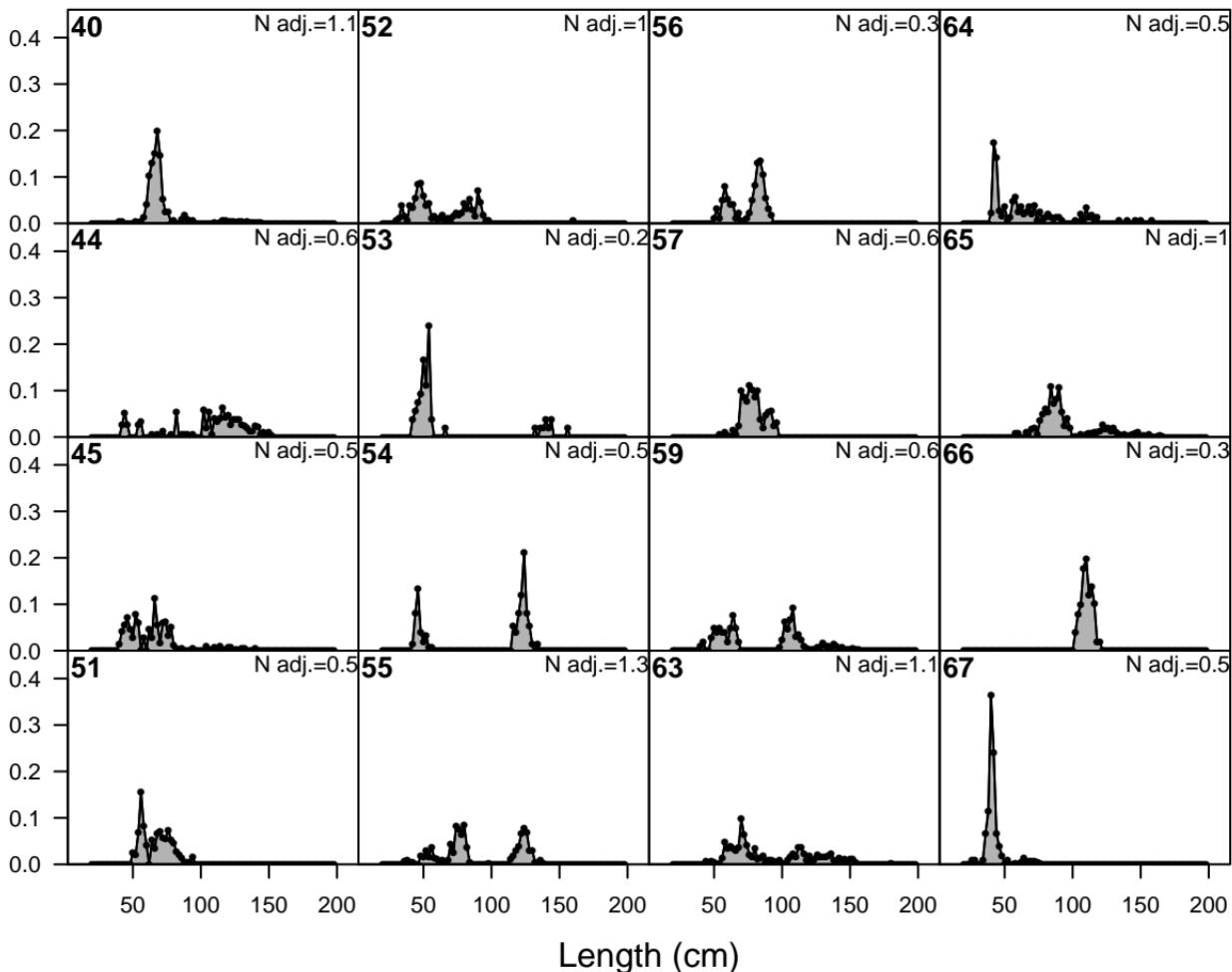


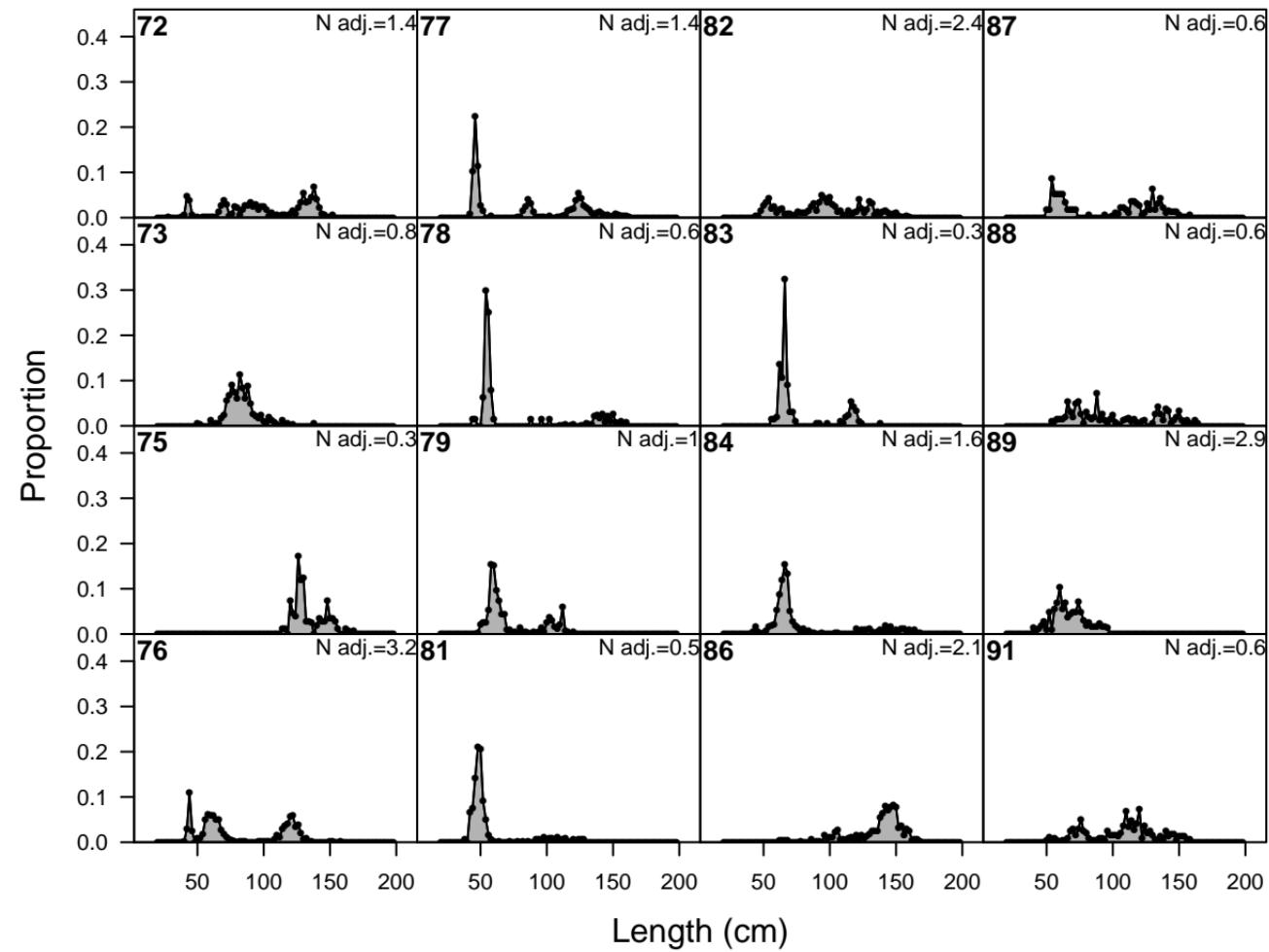


F11–NOA\_N (whole catch)

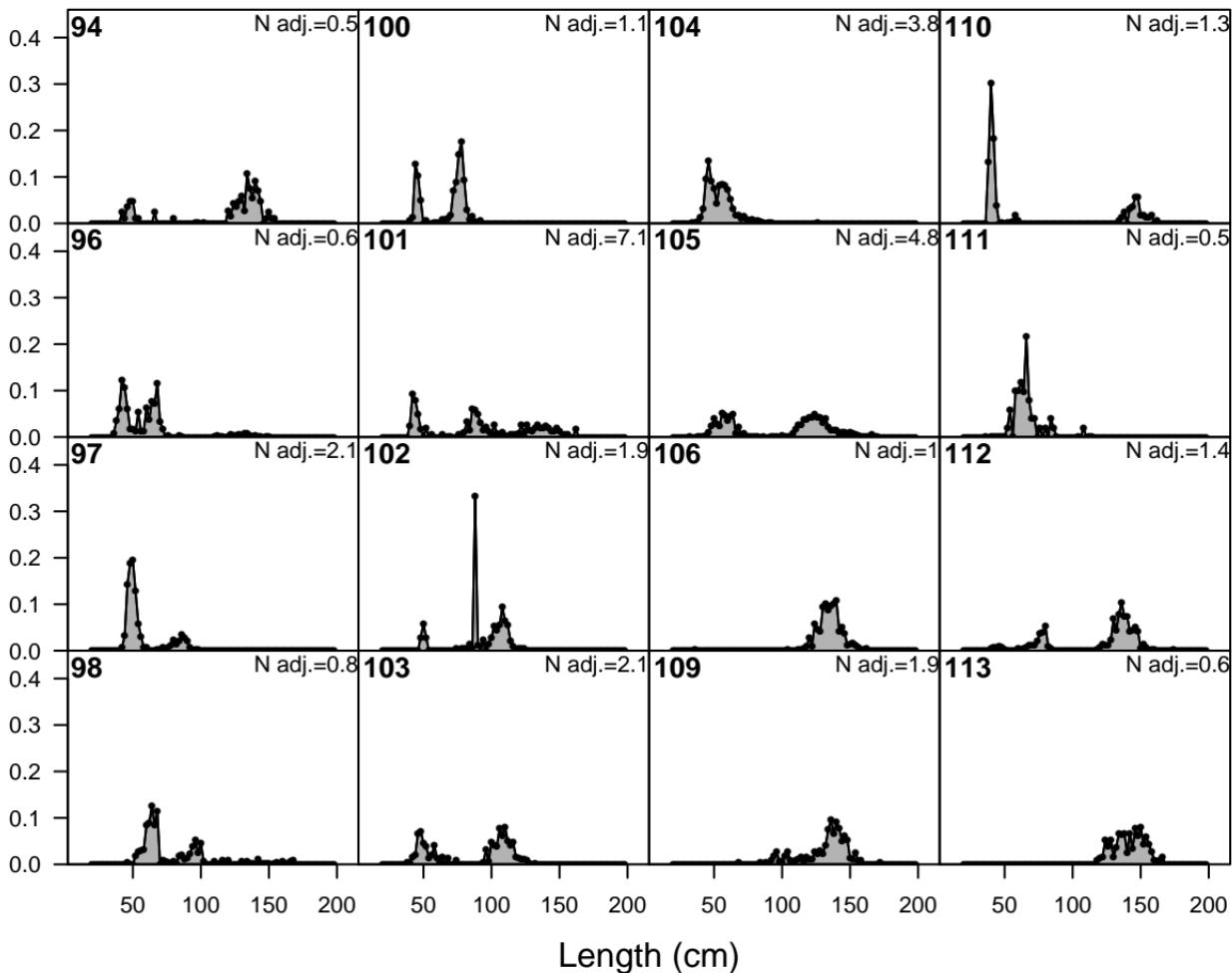


Proportion

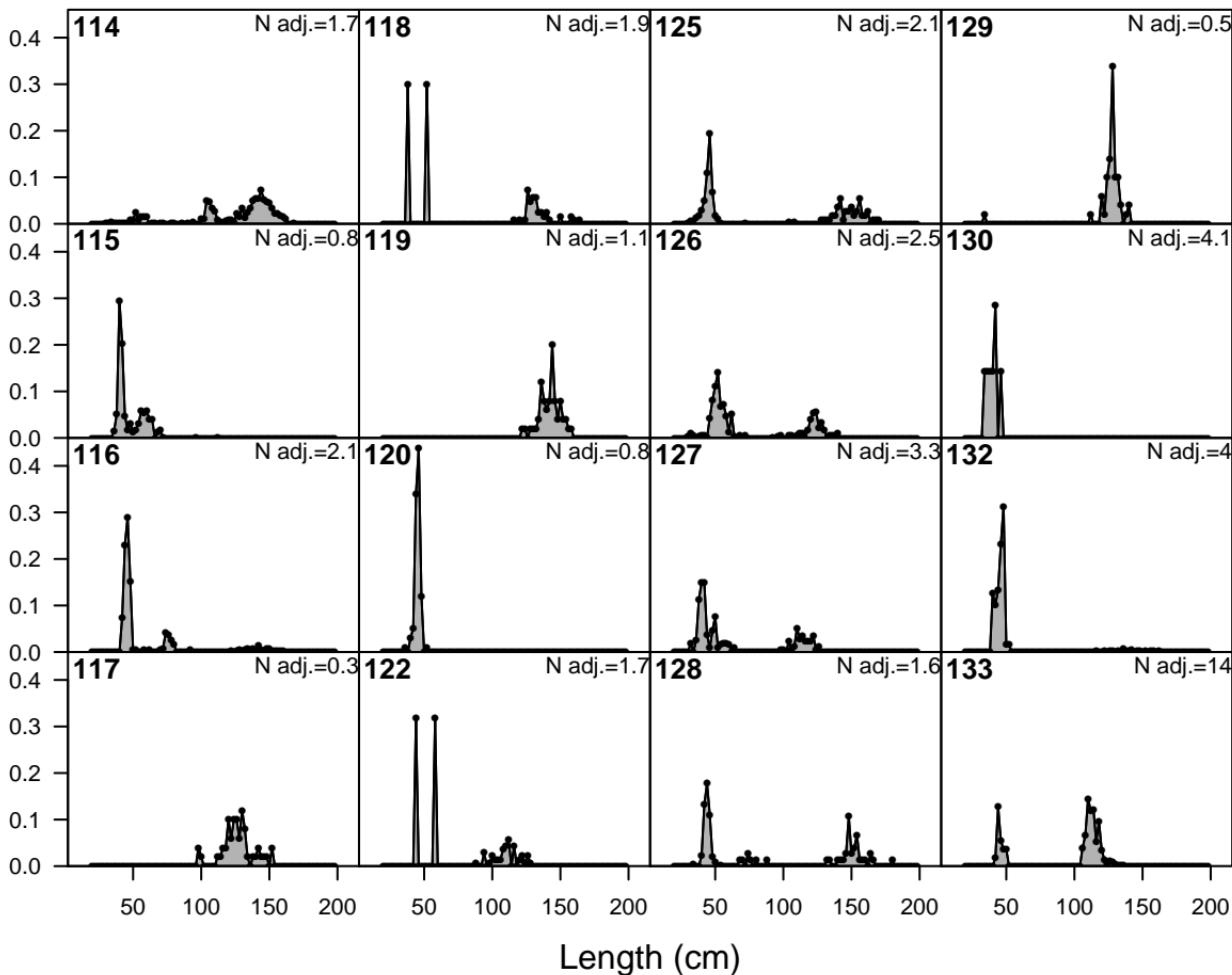




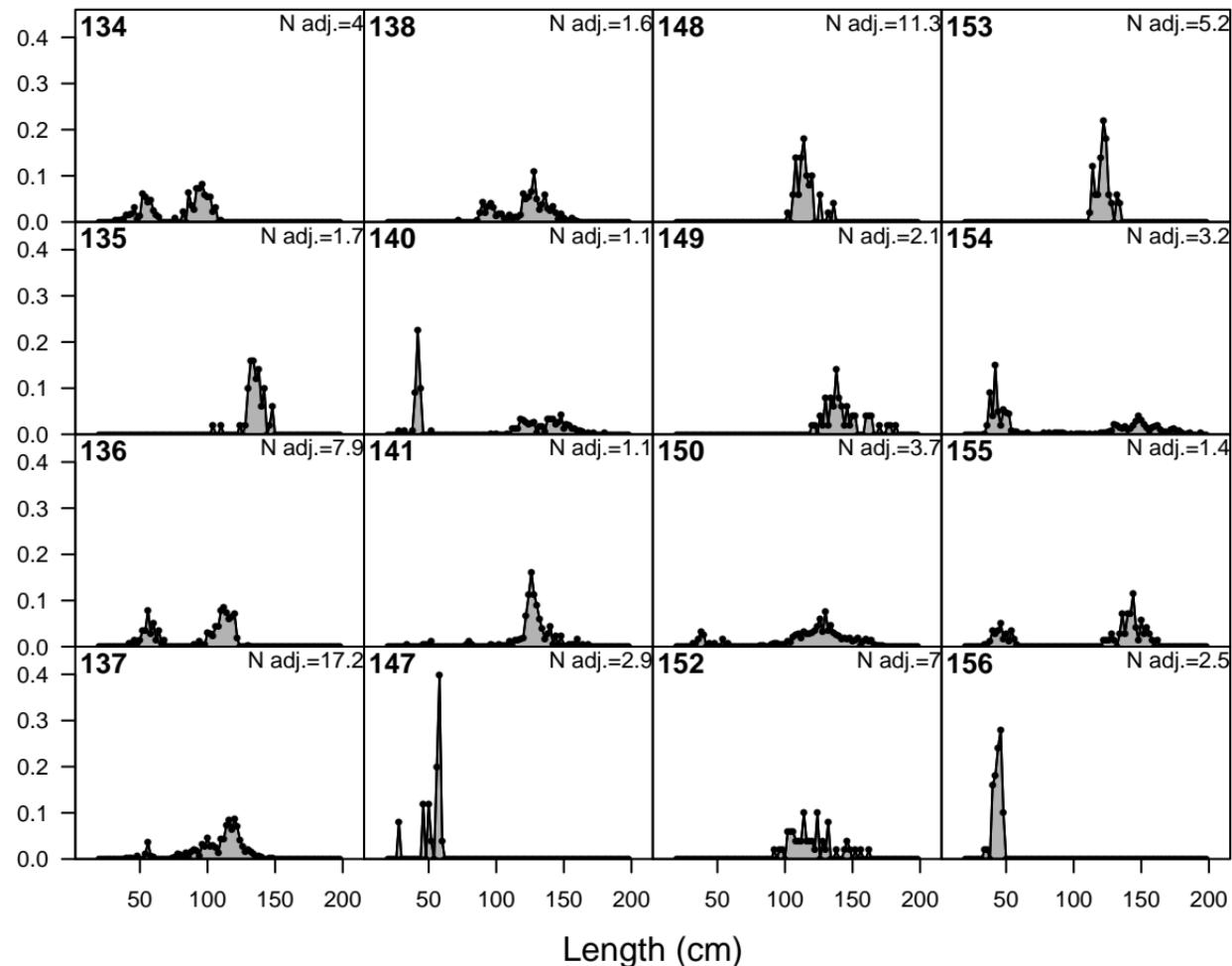
Proportion



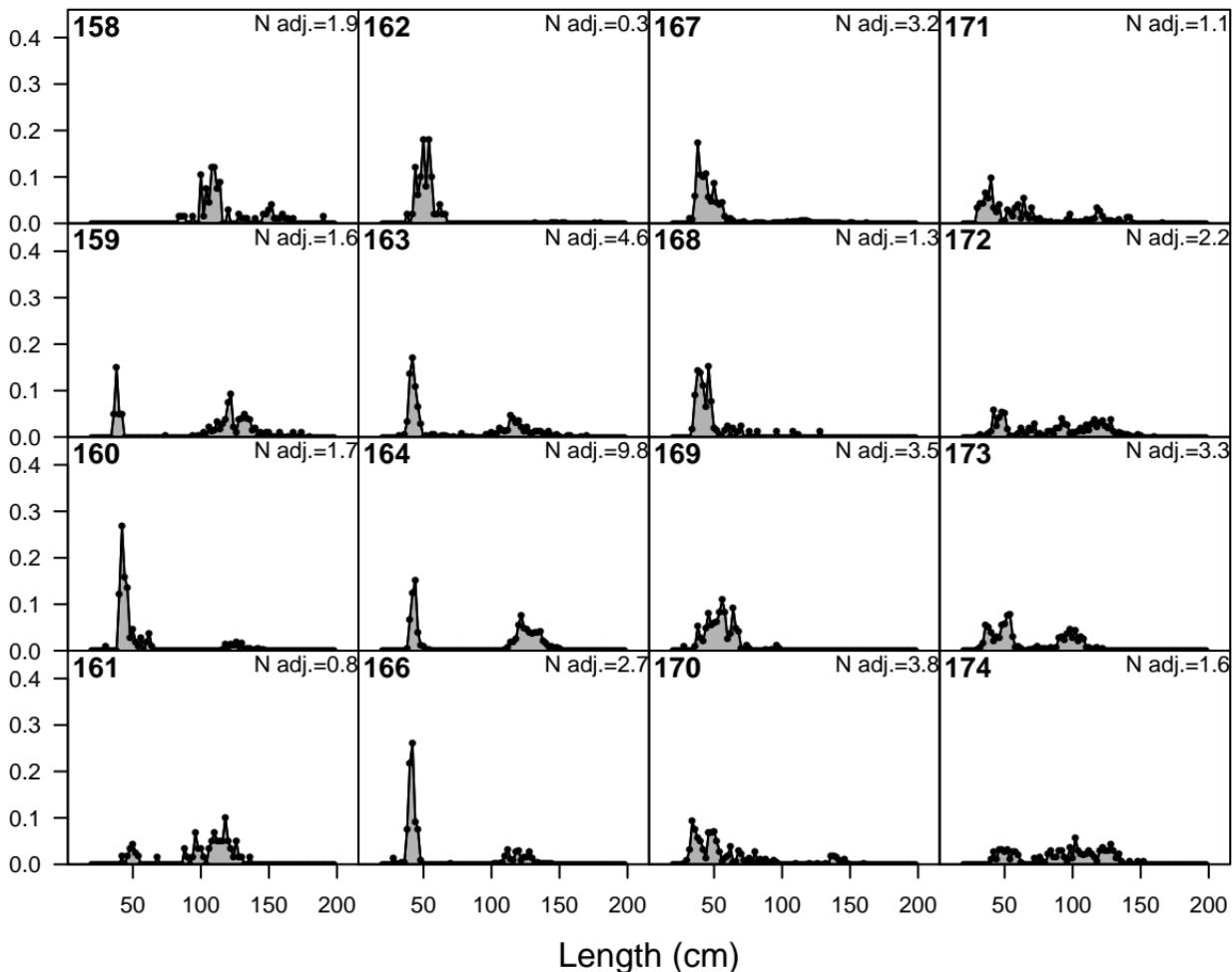
Proportion

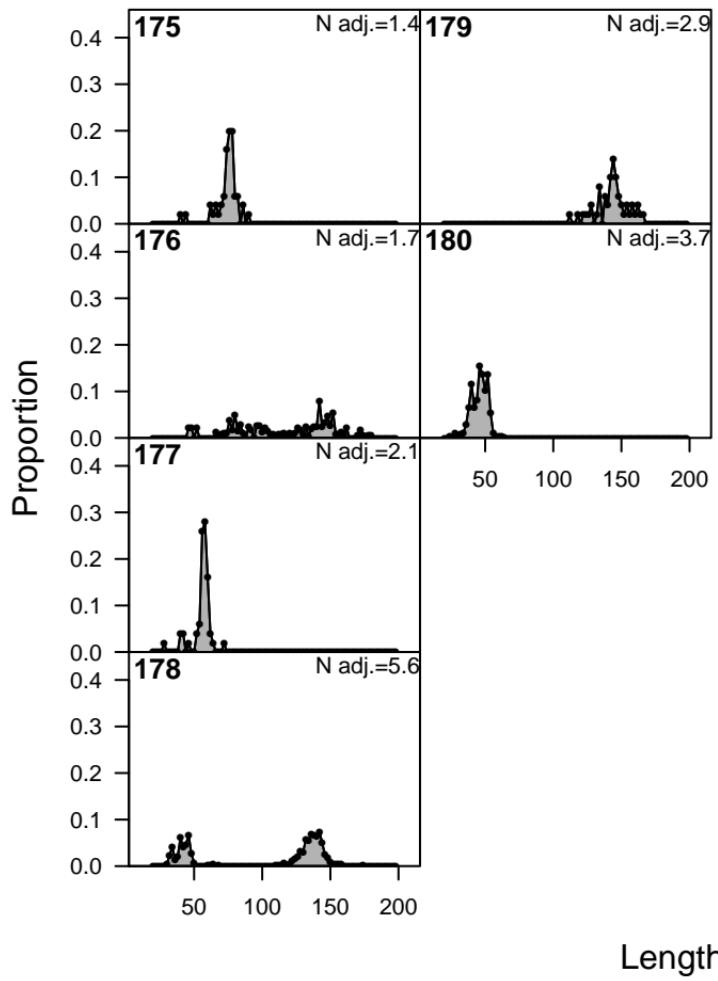


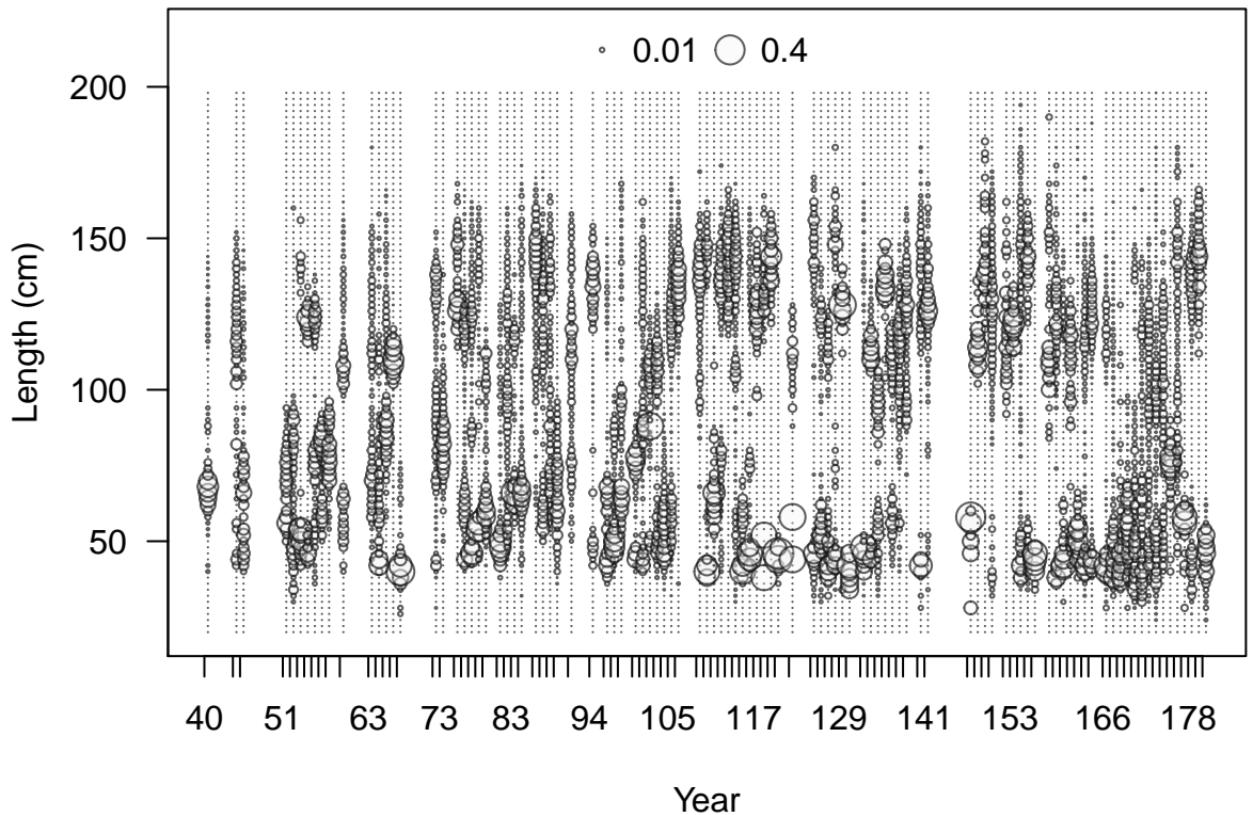
Proportion



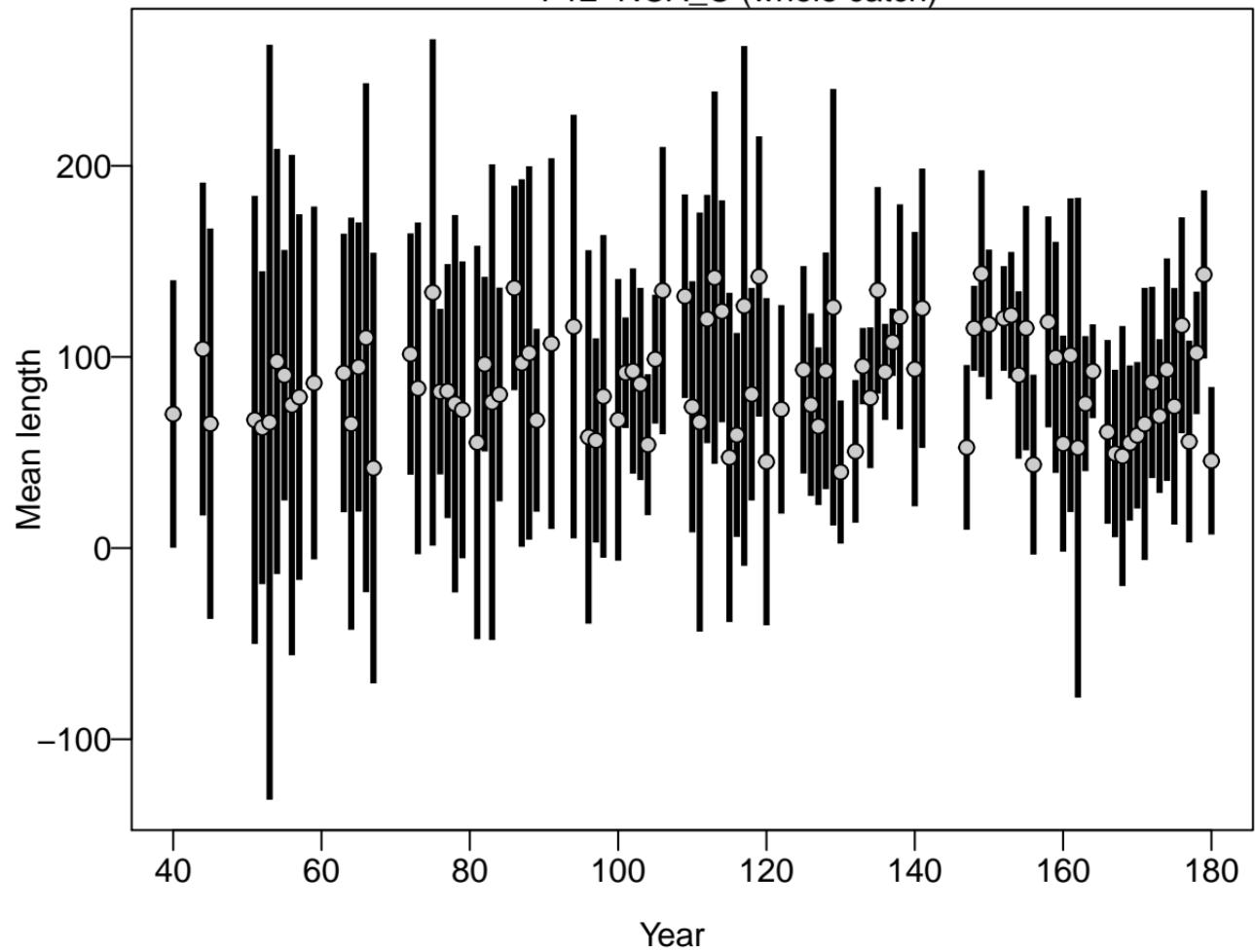
Proportion



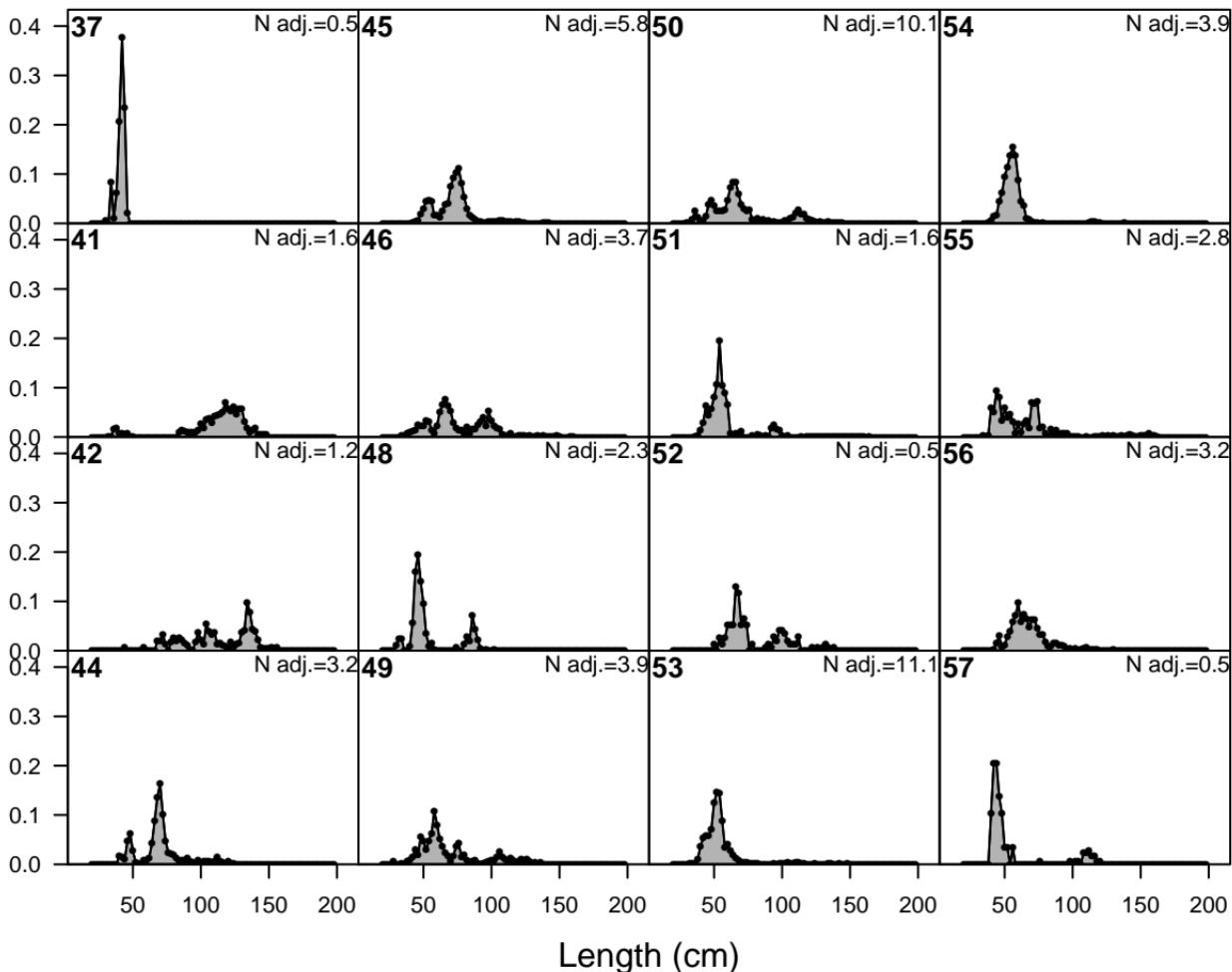




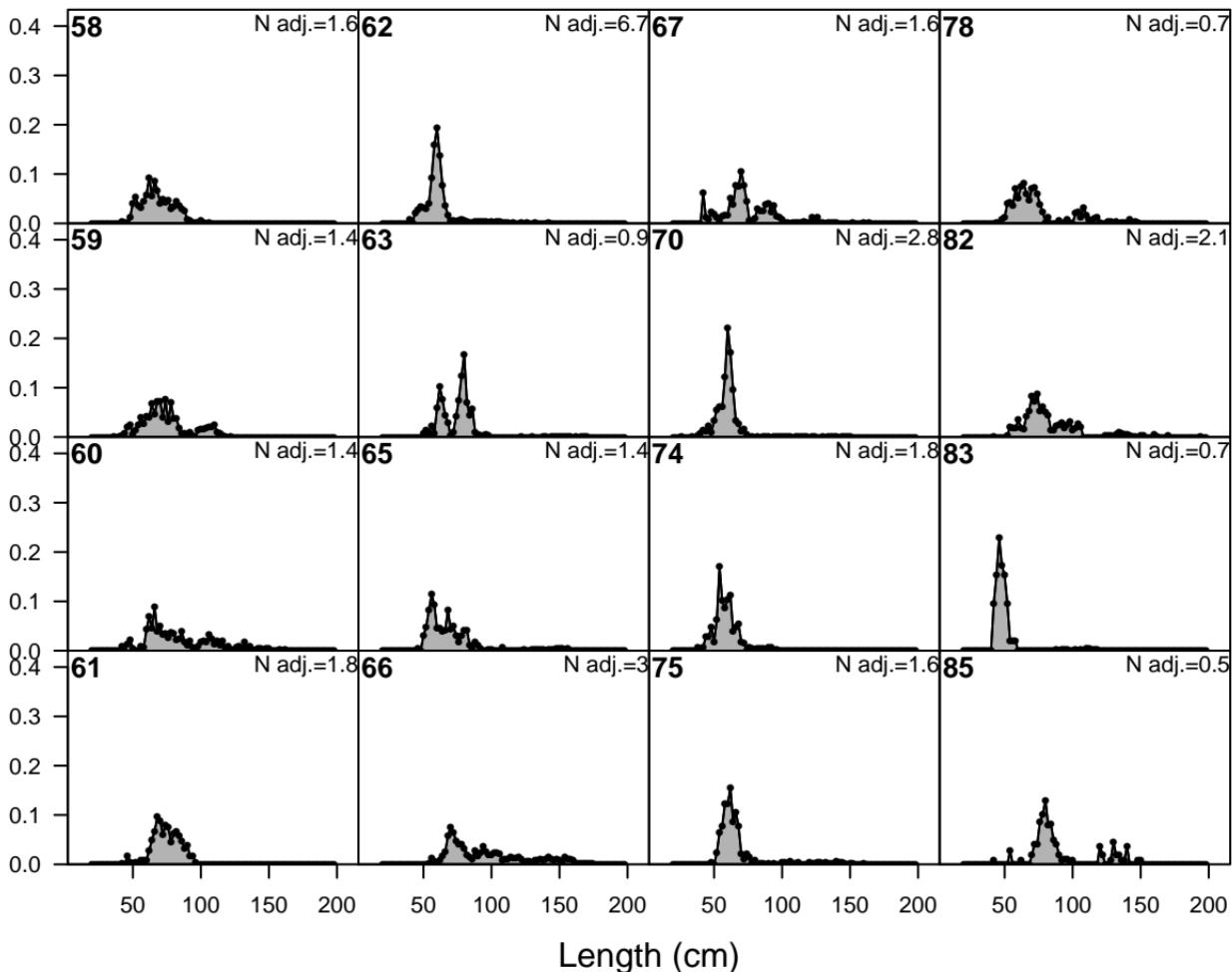
# F12-NOA\_C (whole catch)



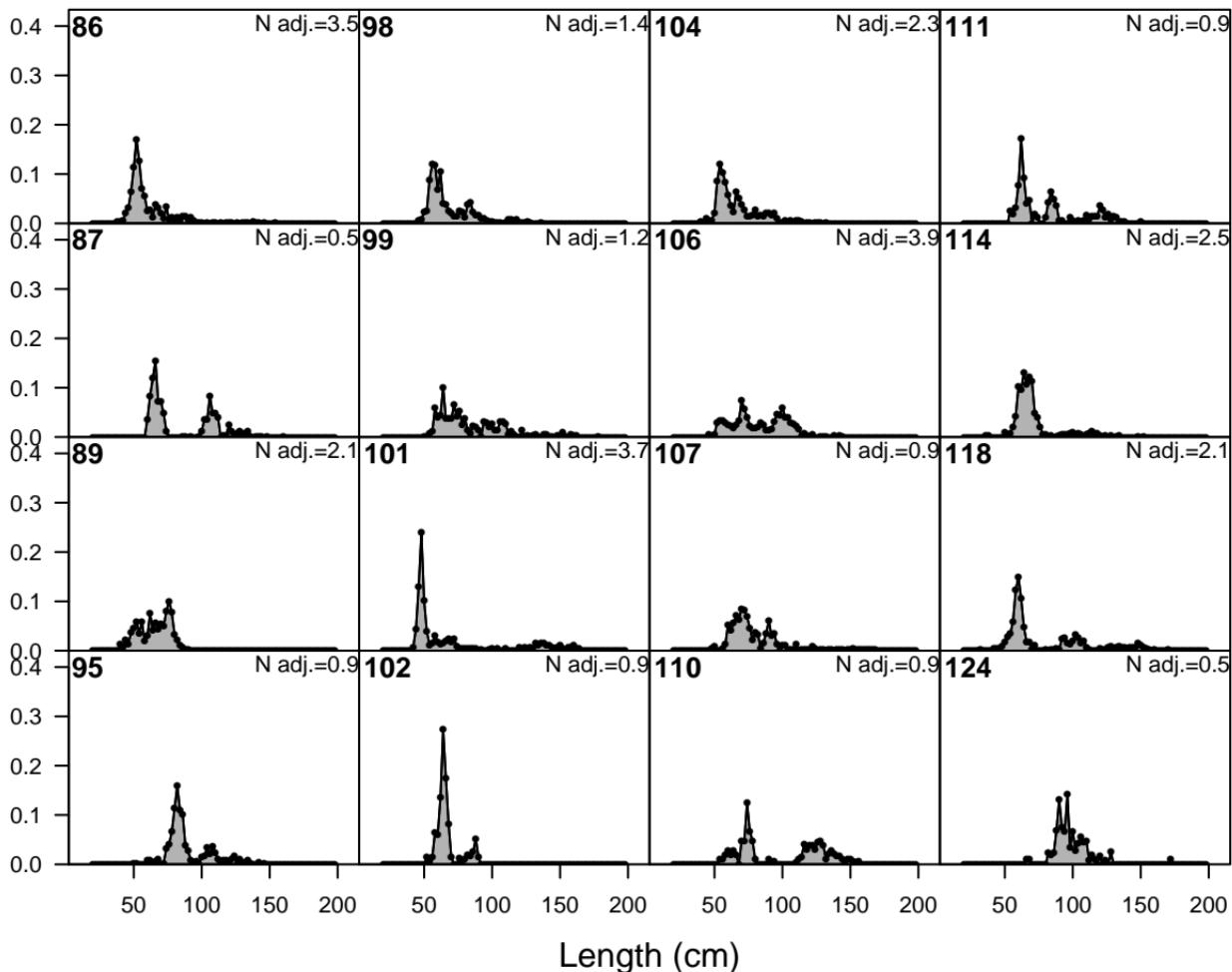
Proportion



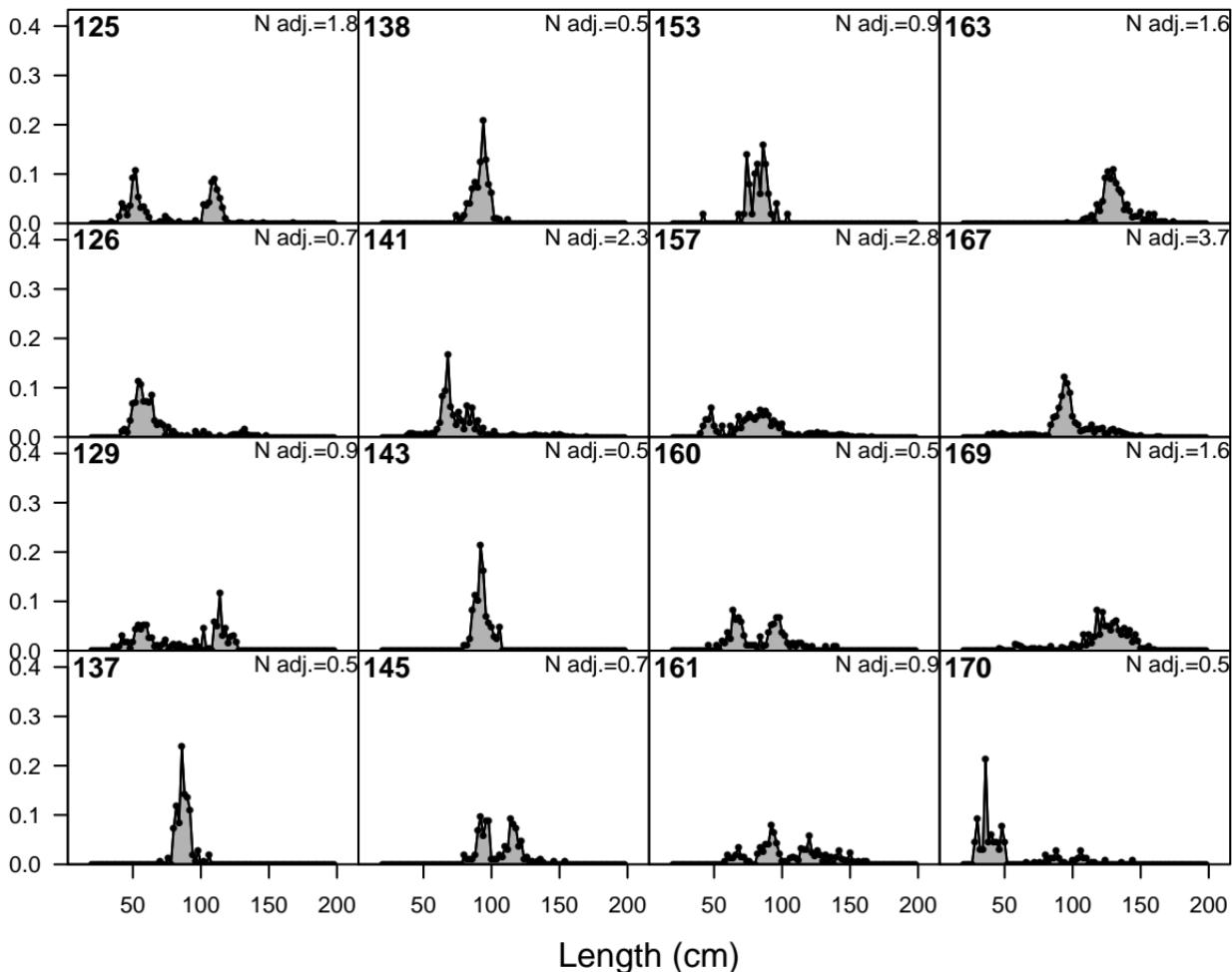
Proportion

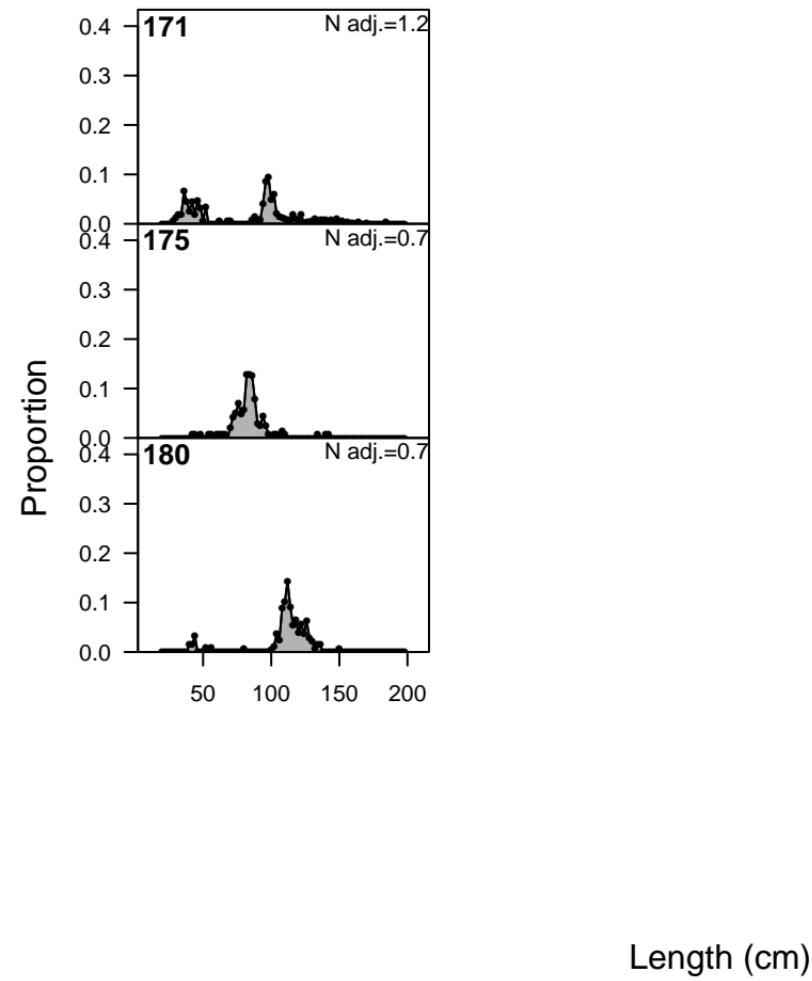


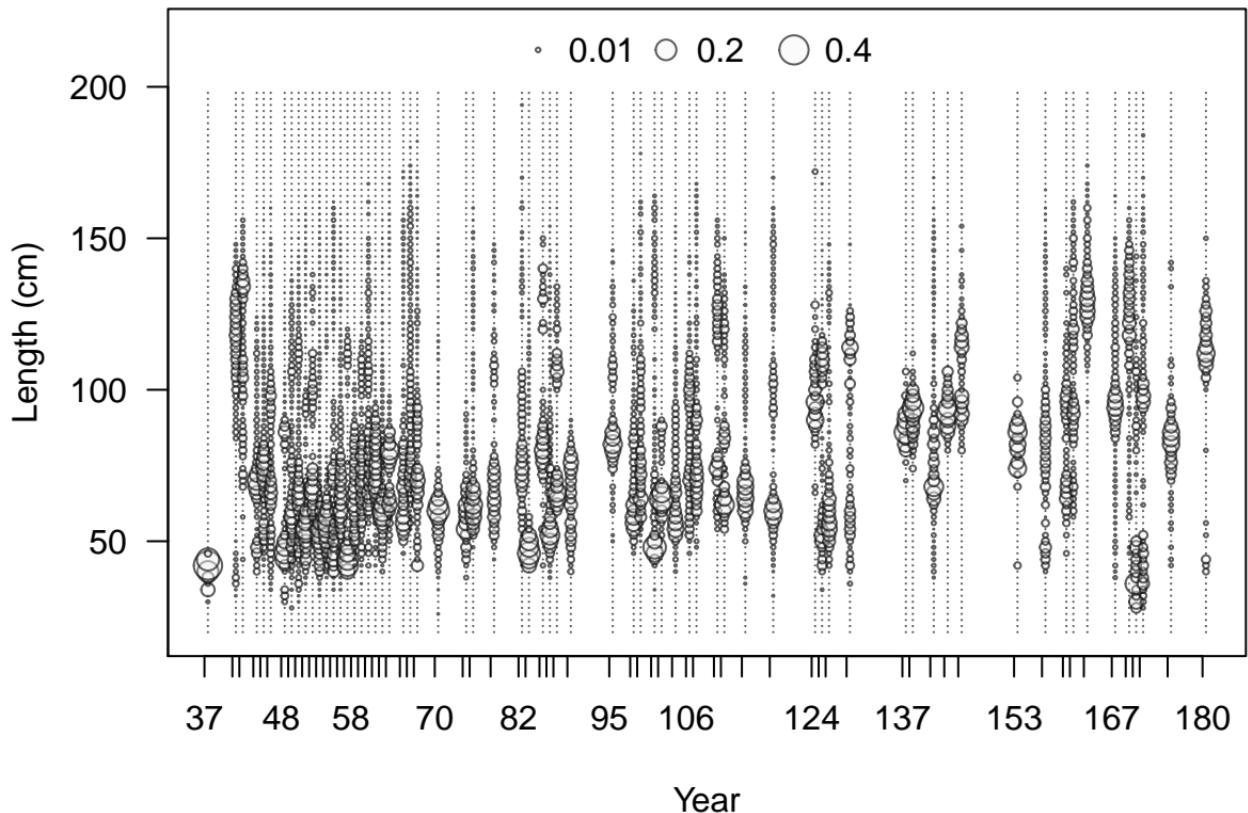
Proportion



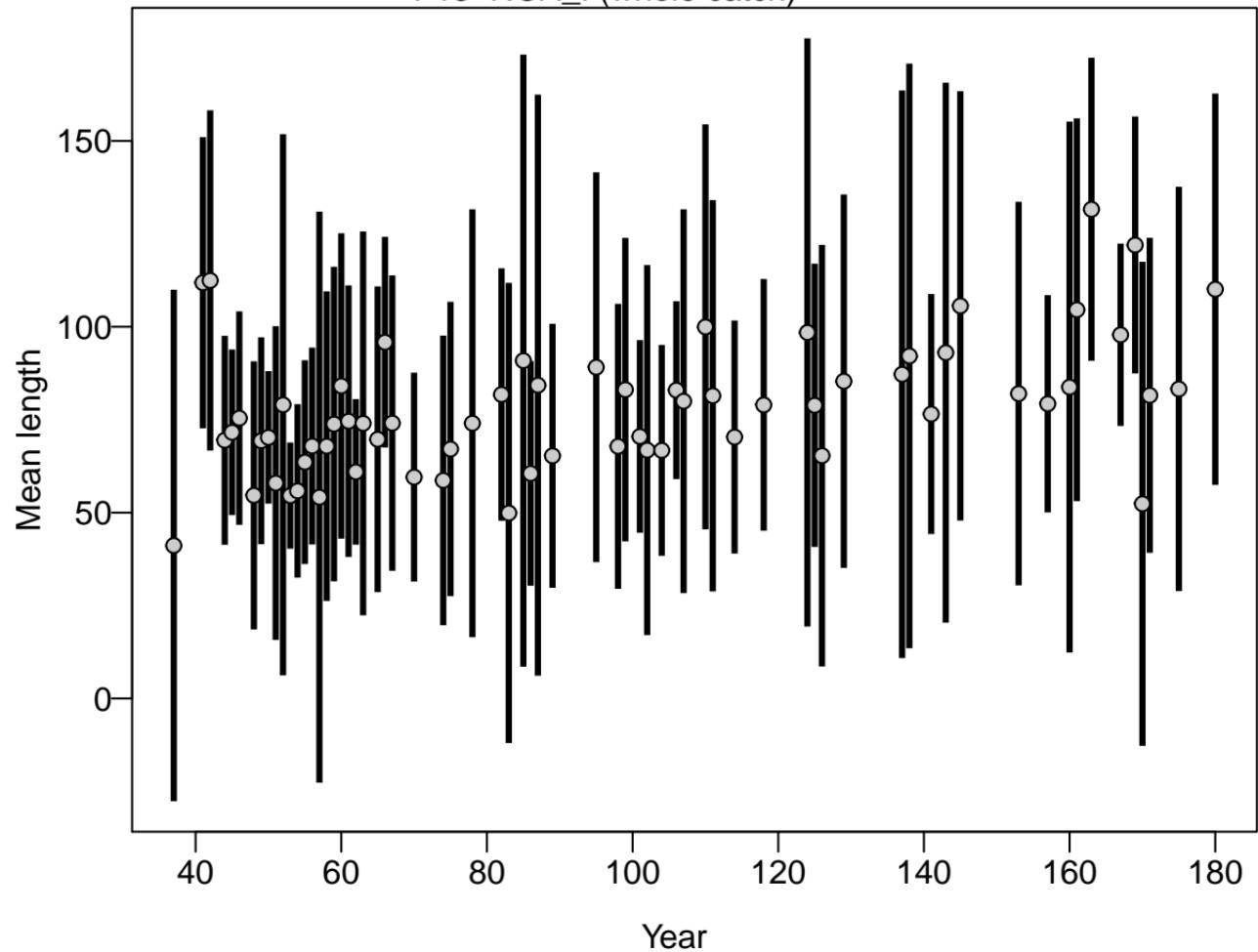
Proportion



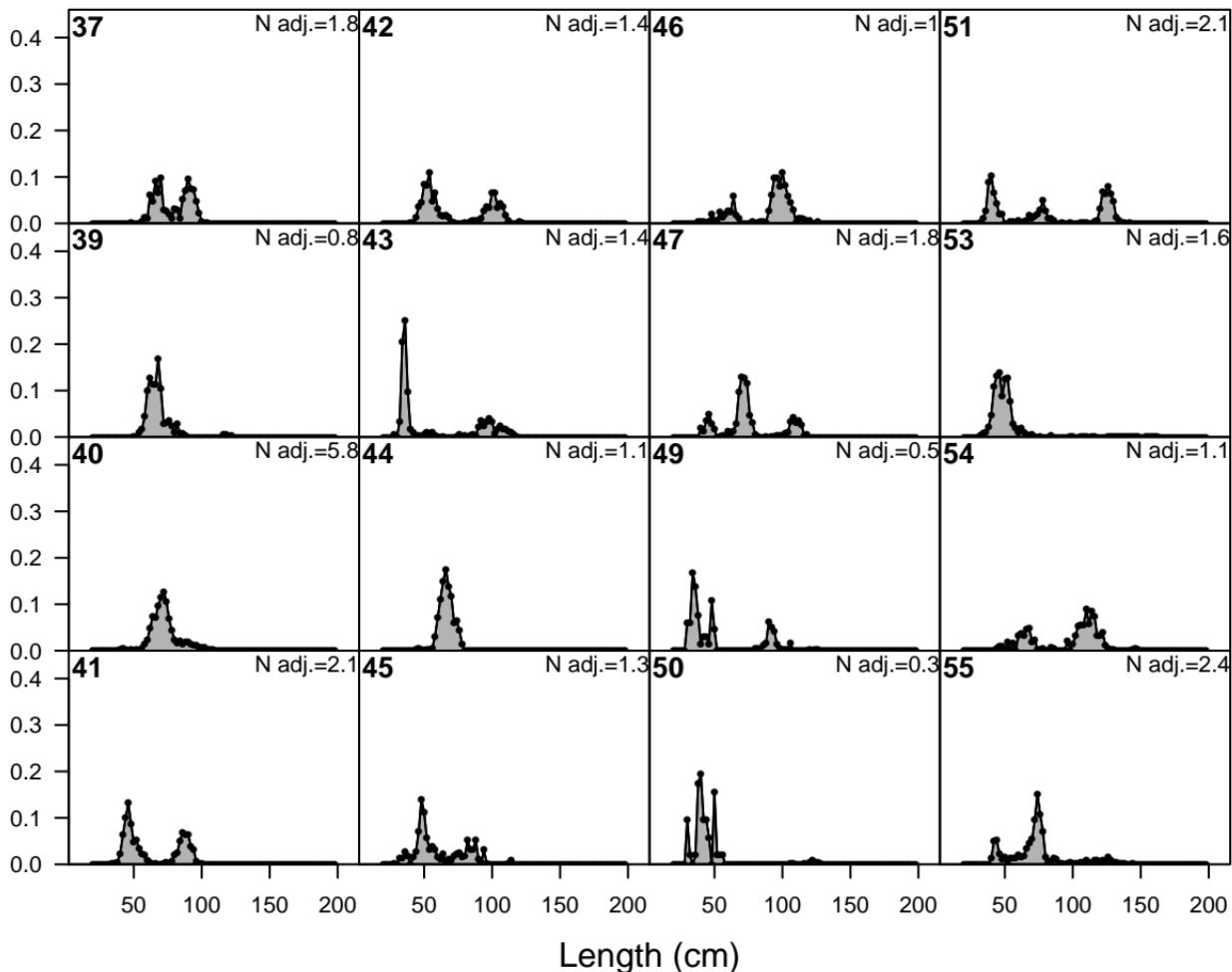




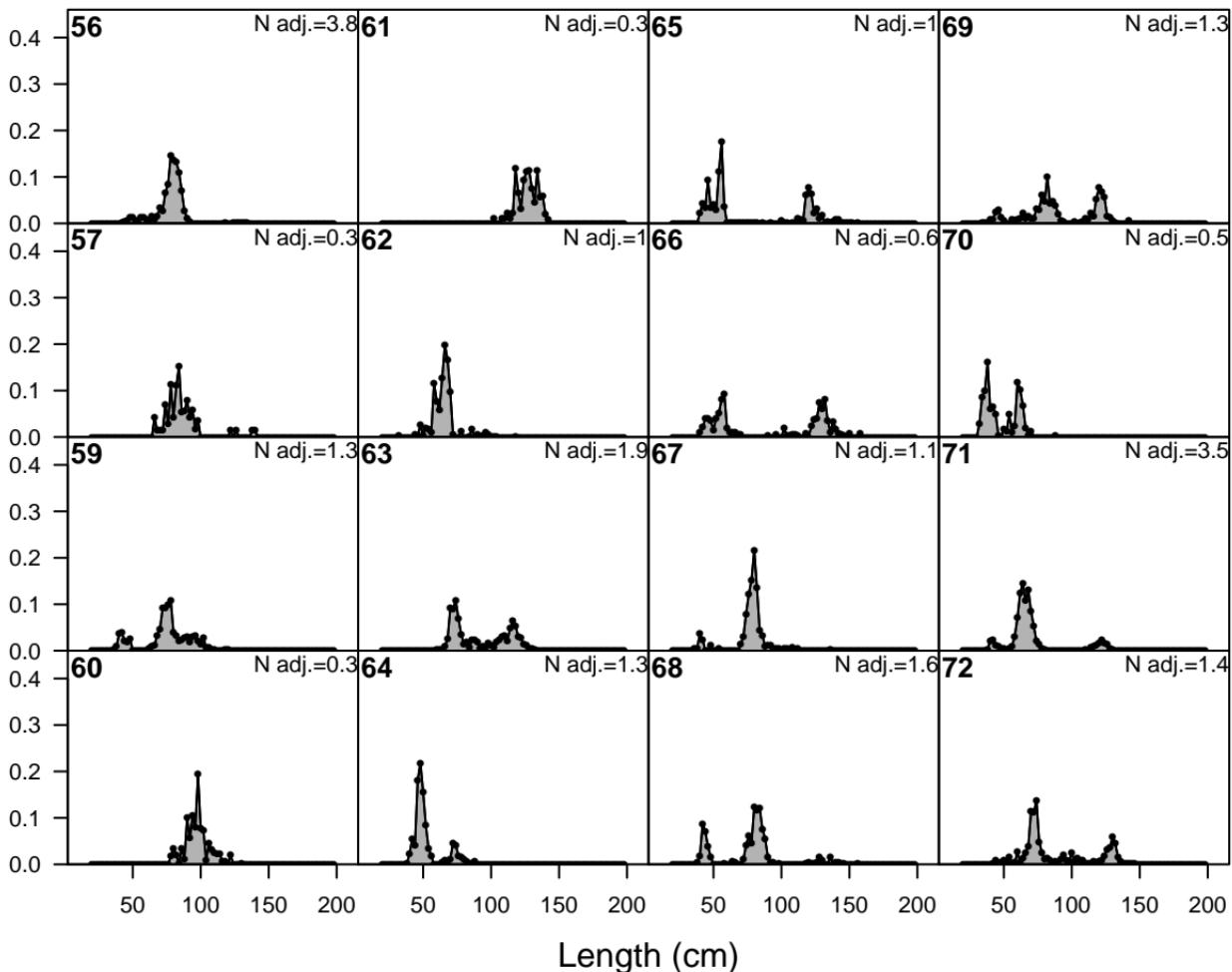
### F13–NOA\_I (whole catch)



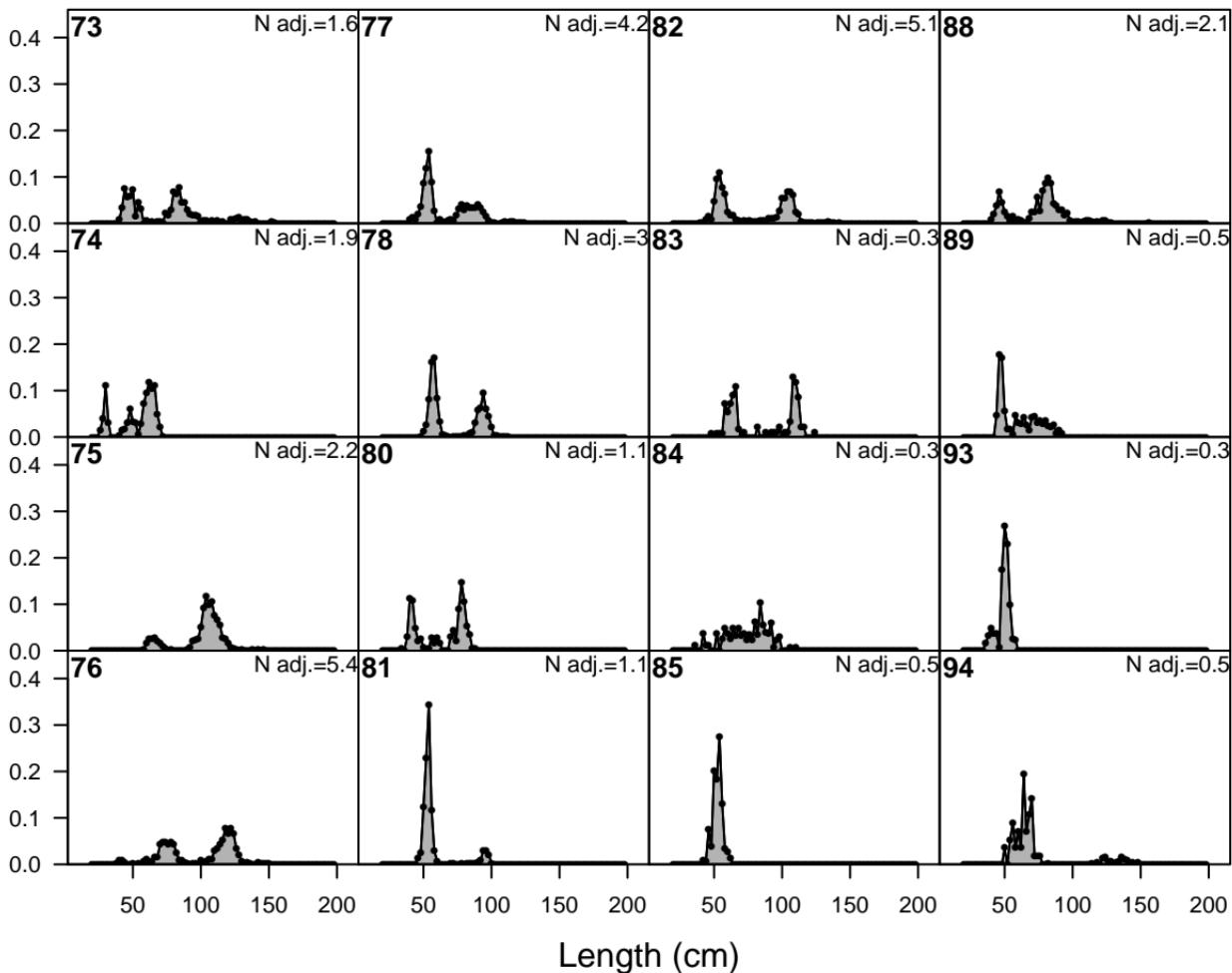
Proportion

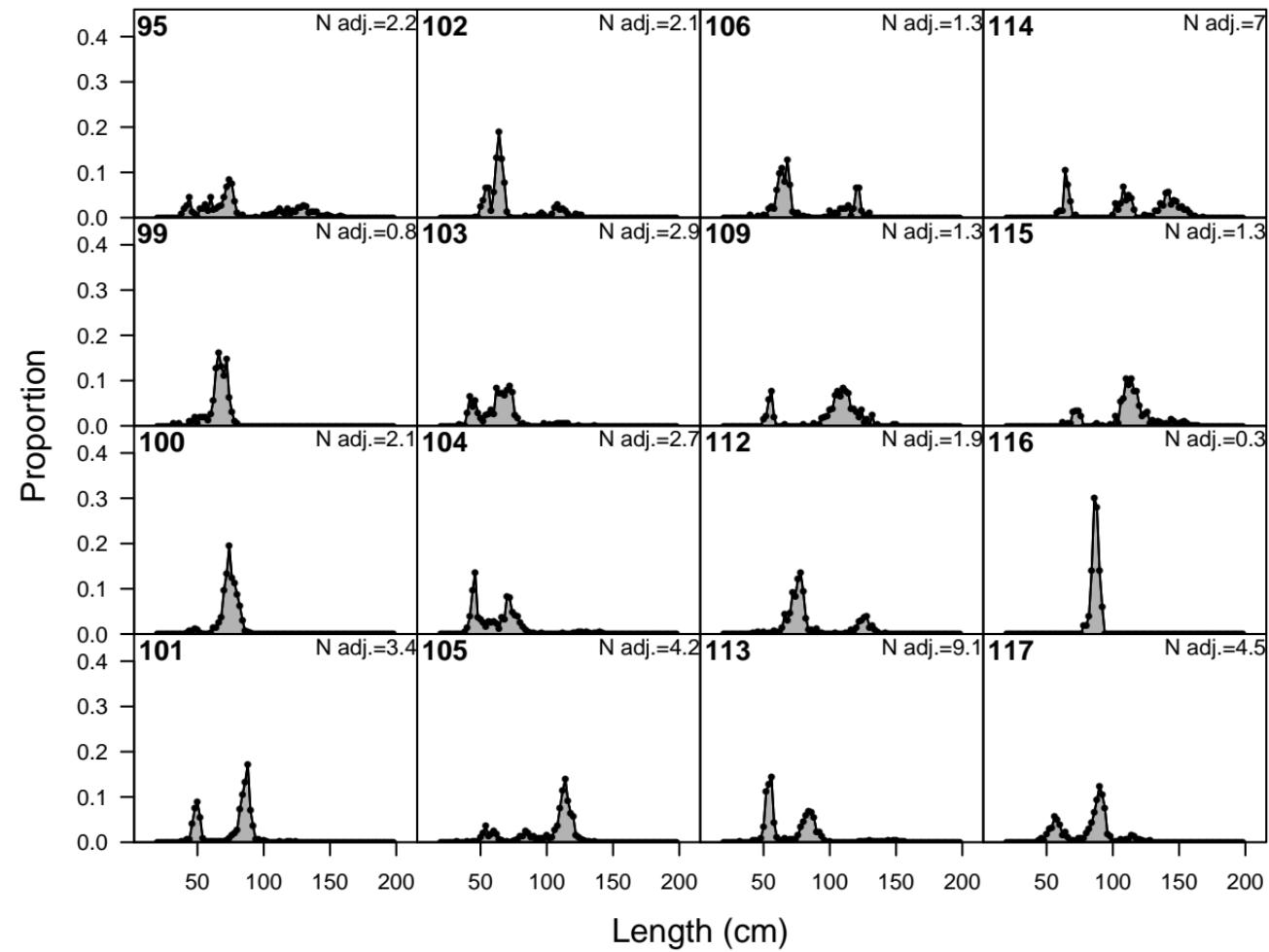


Proportion

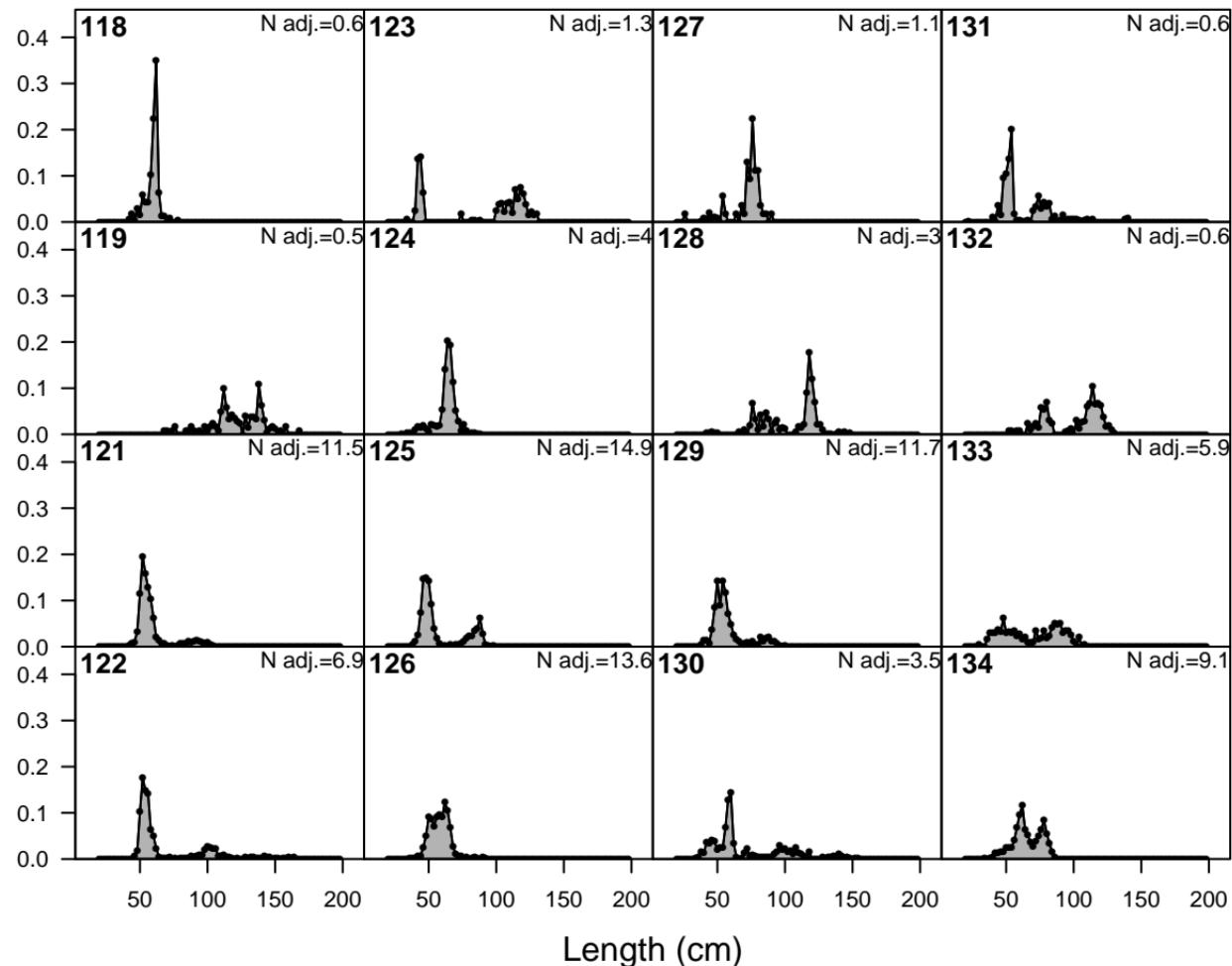


Proportion

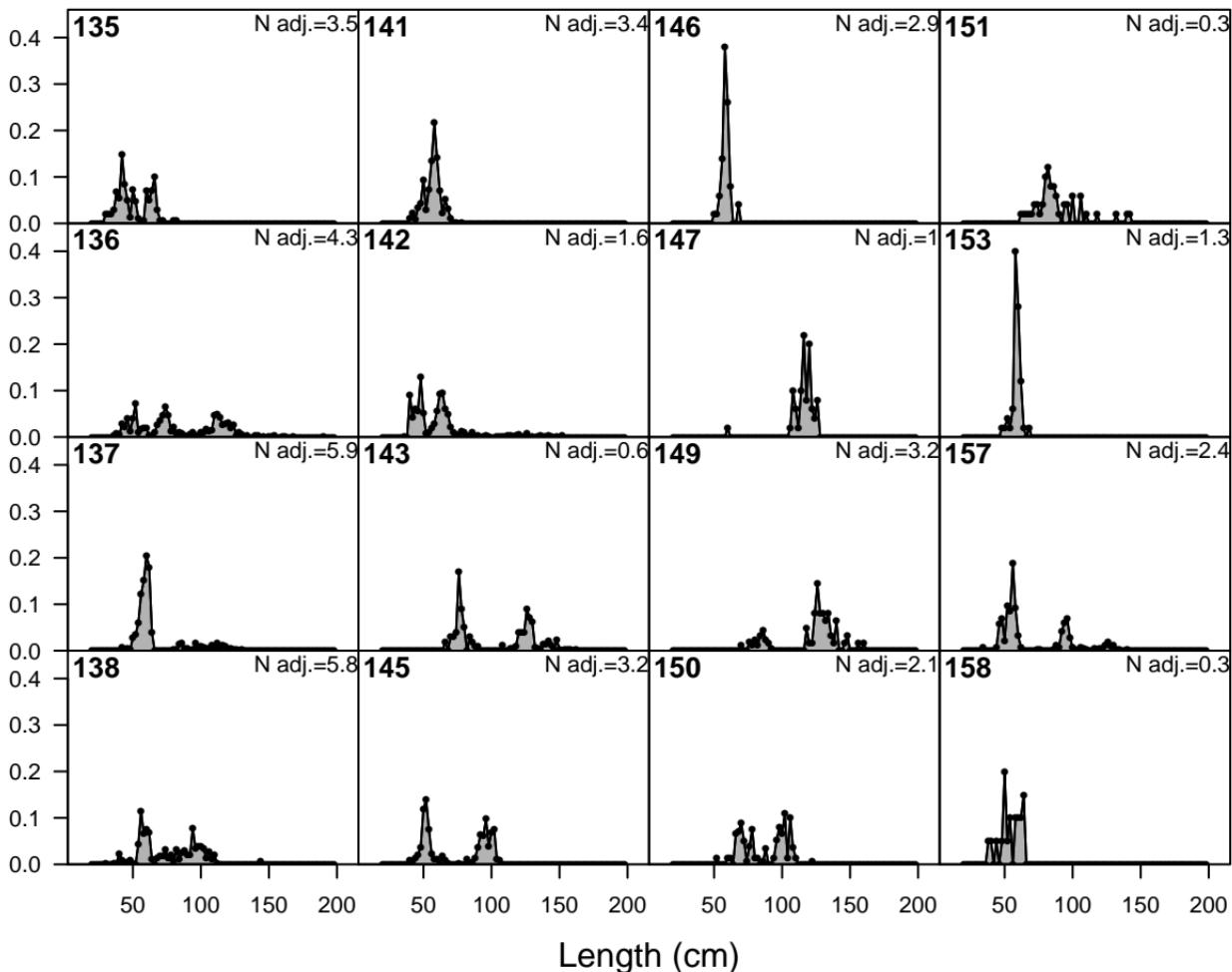




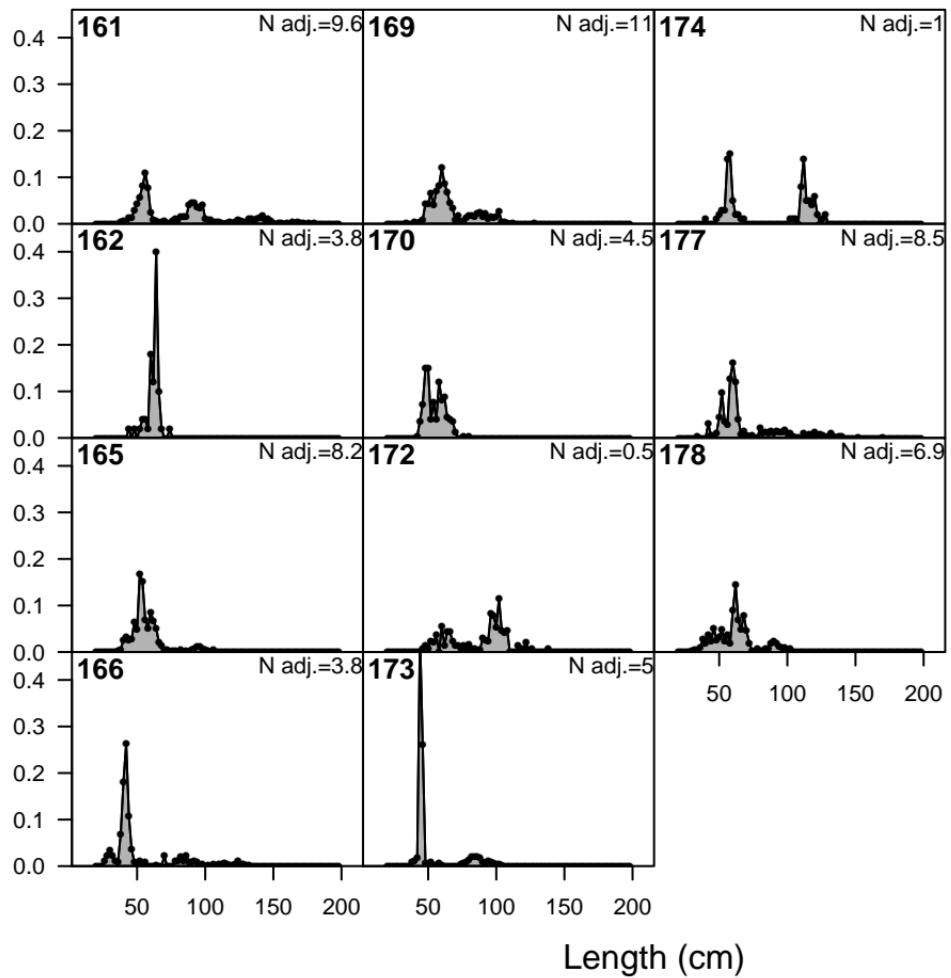
Proportion

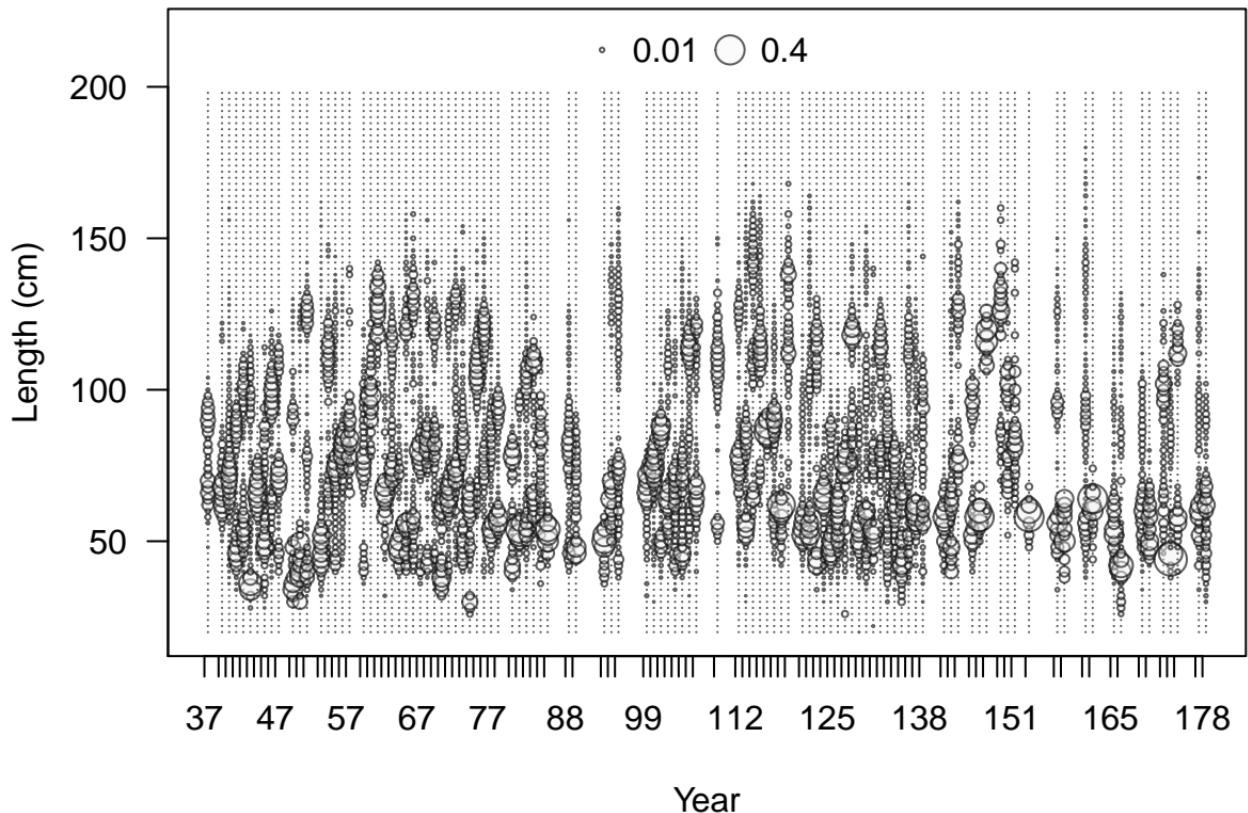


Proportion

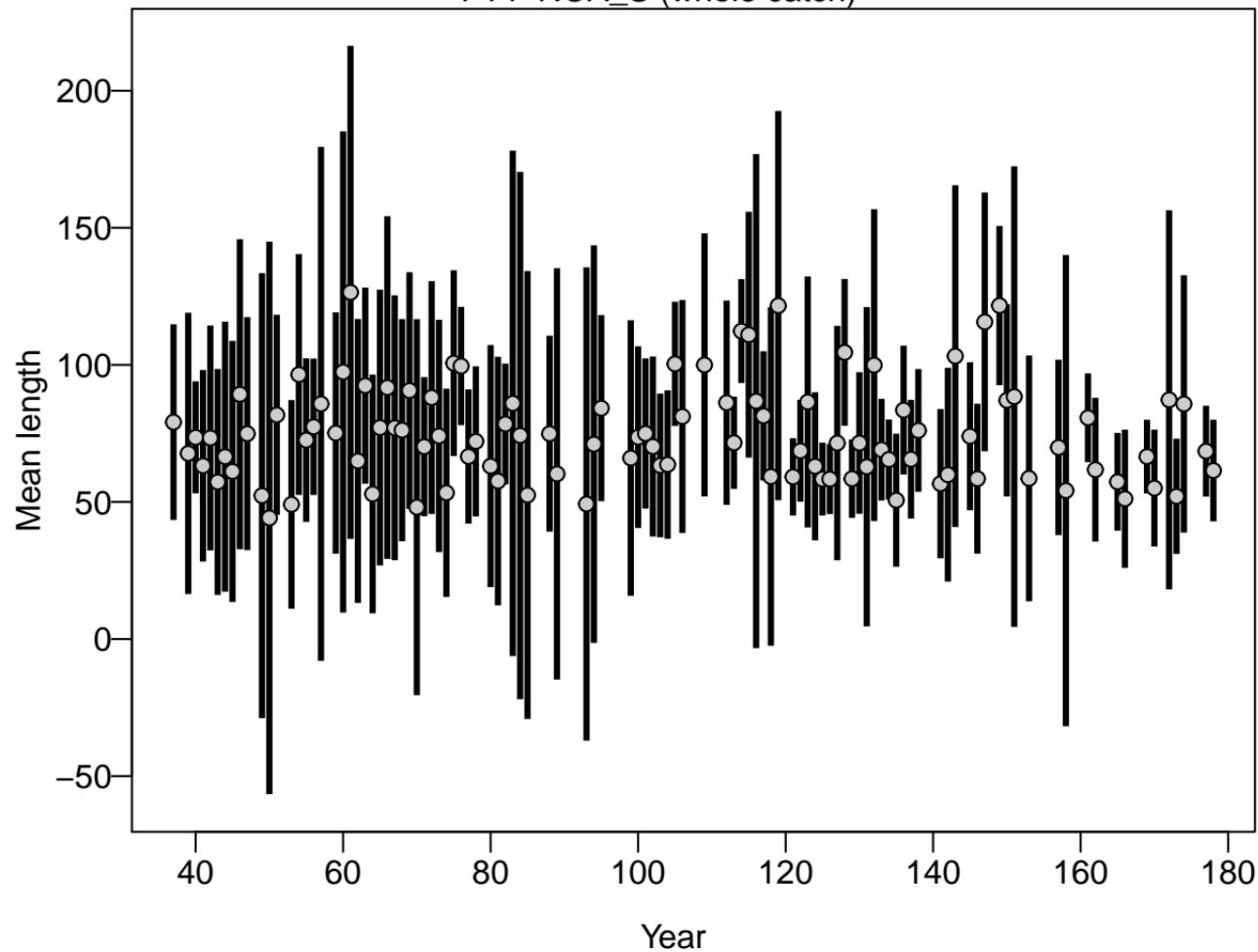


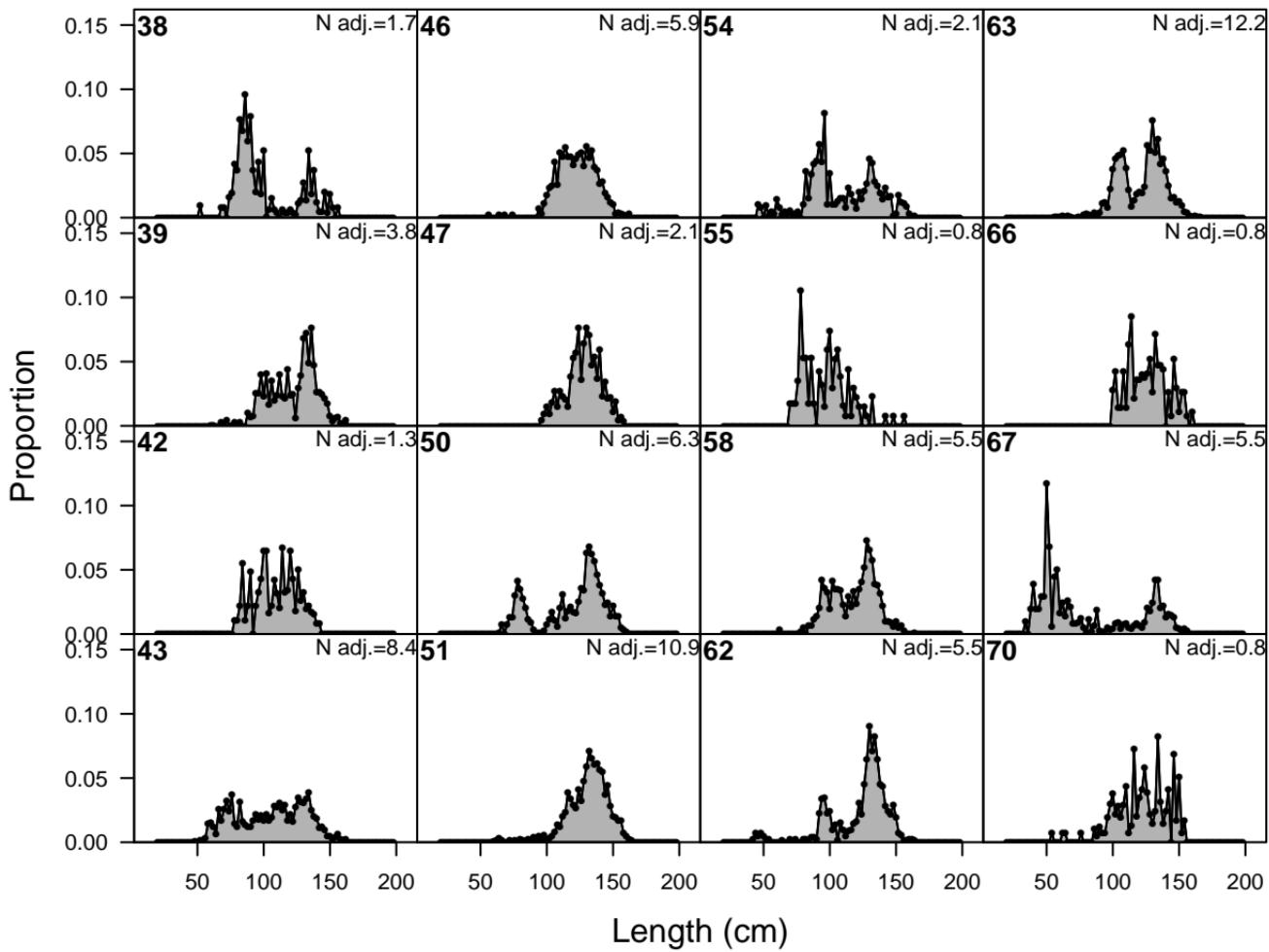
Proportion

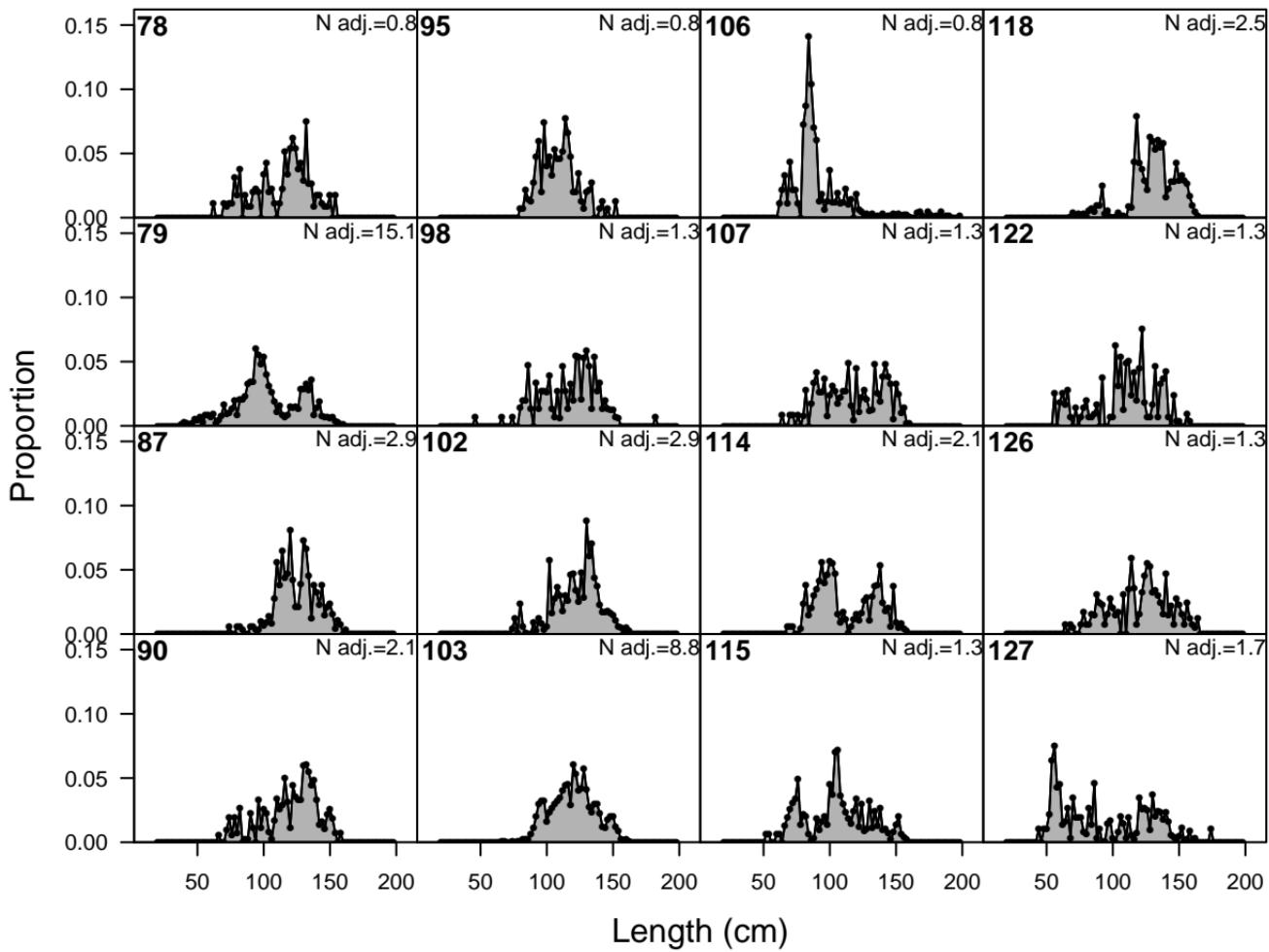


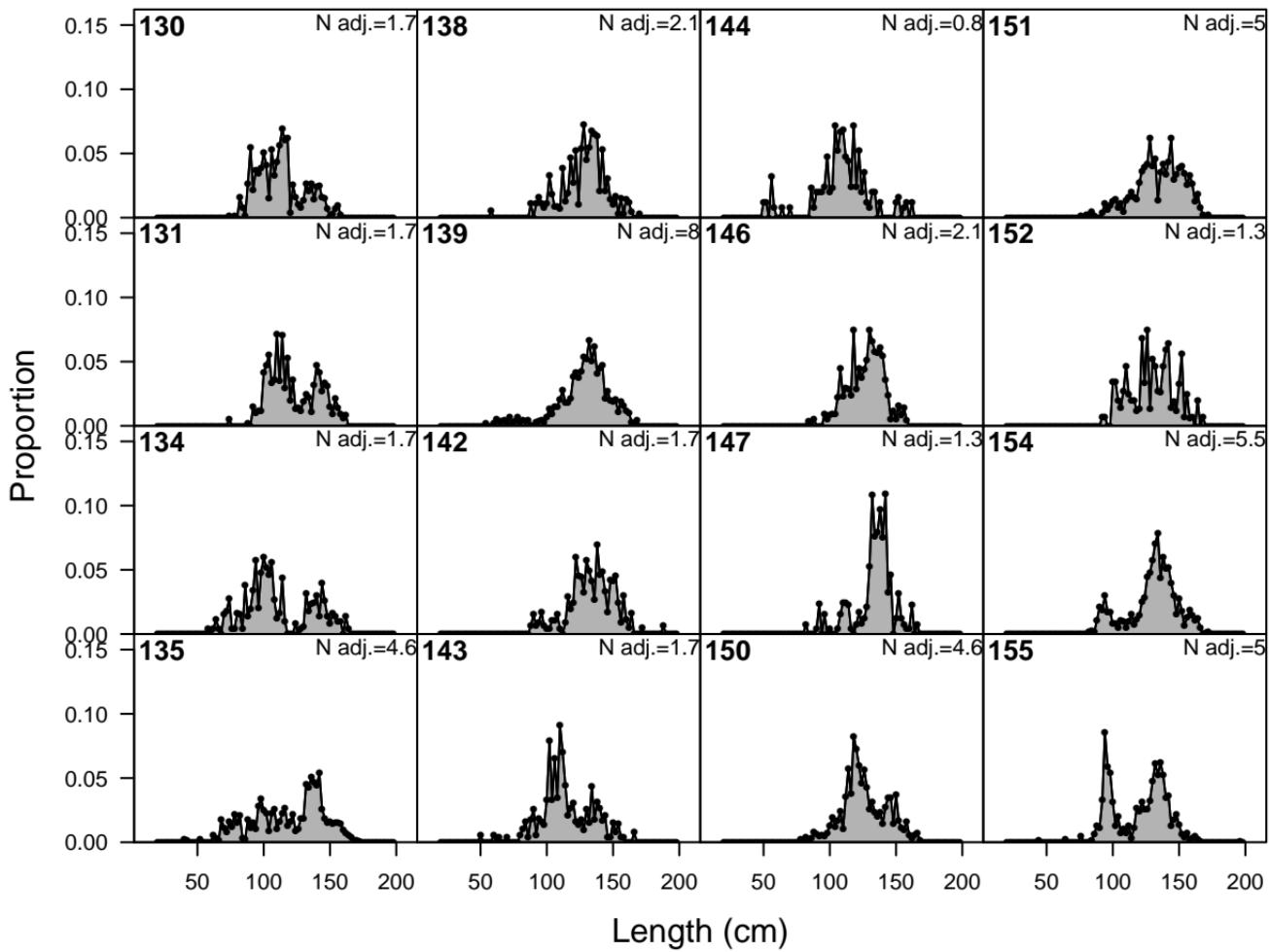


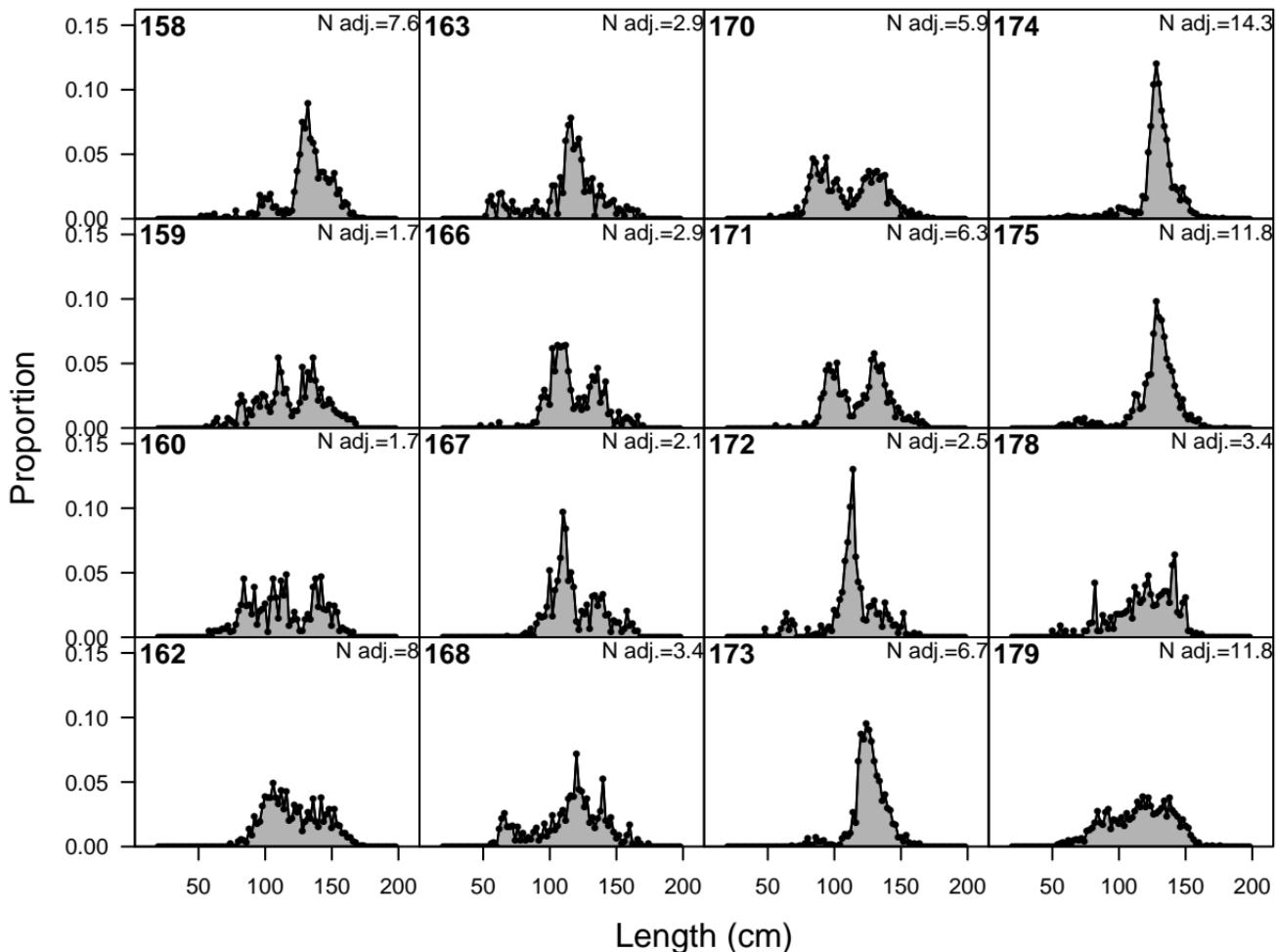
# F14–NOA\_S (whole catch)



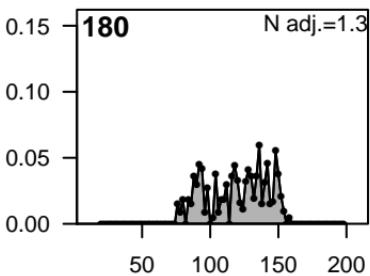




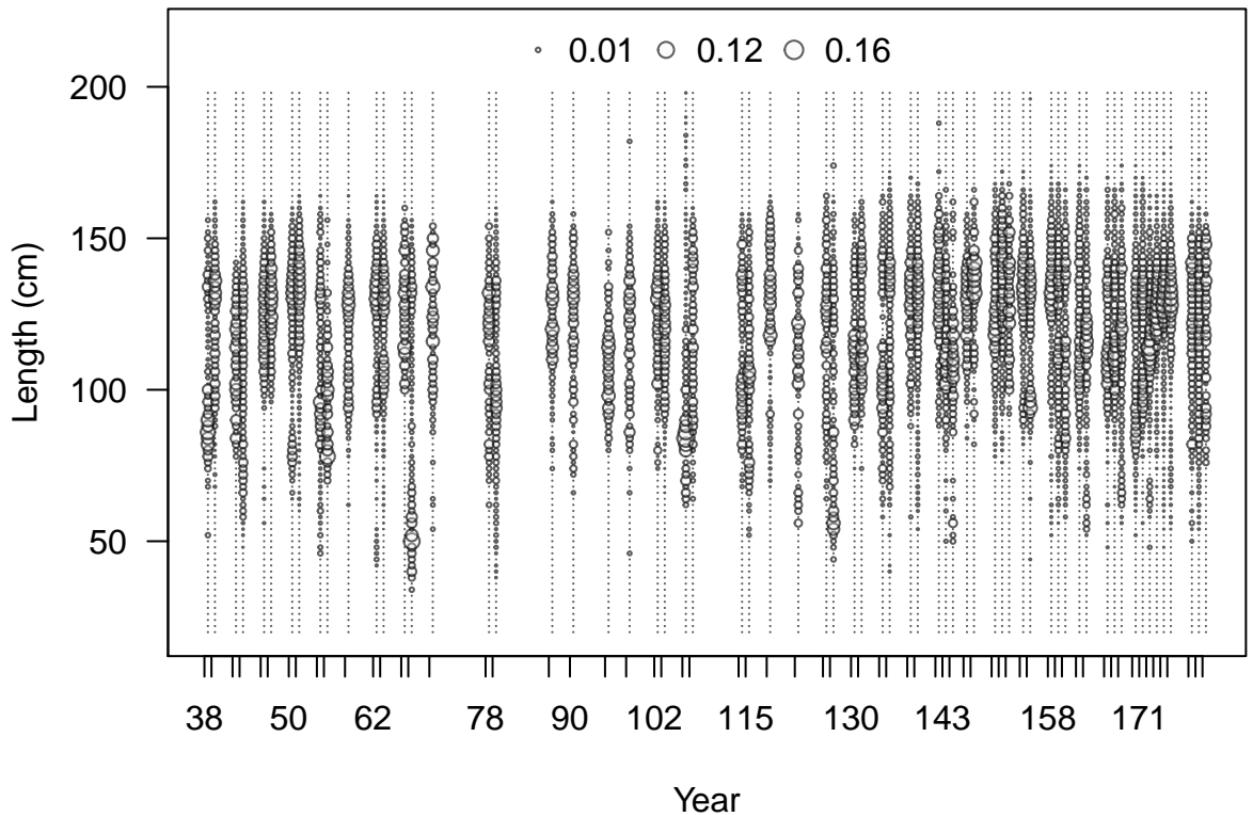




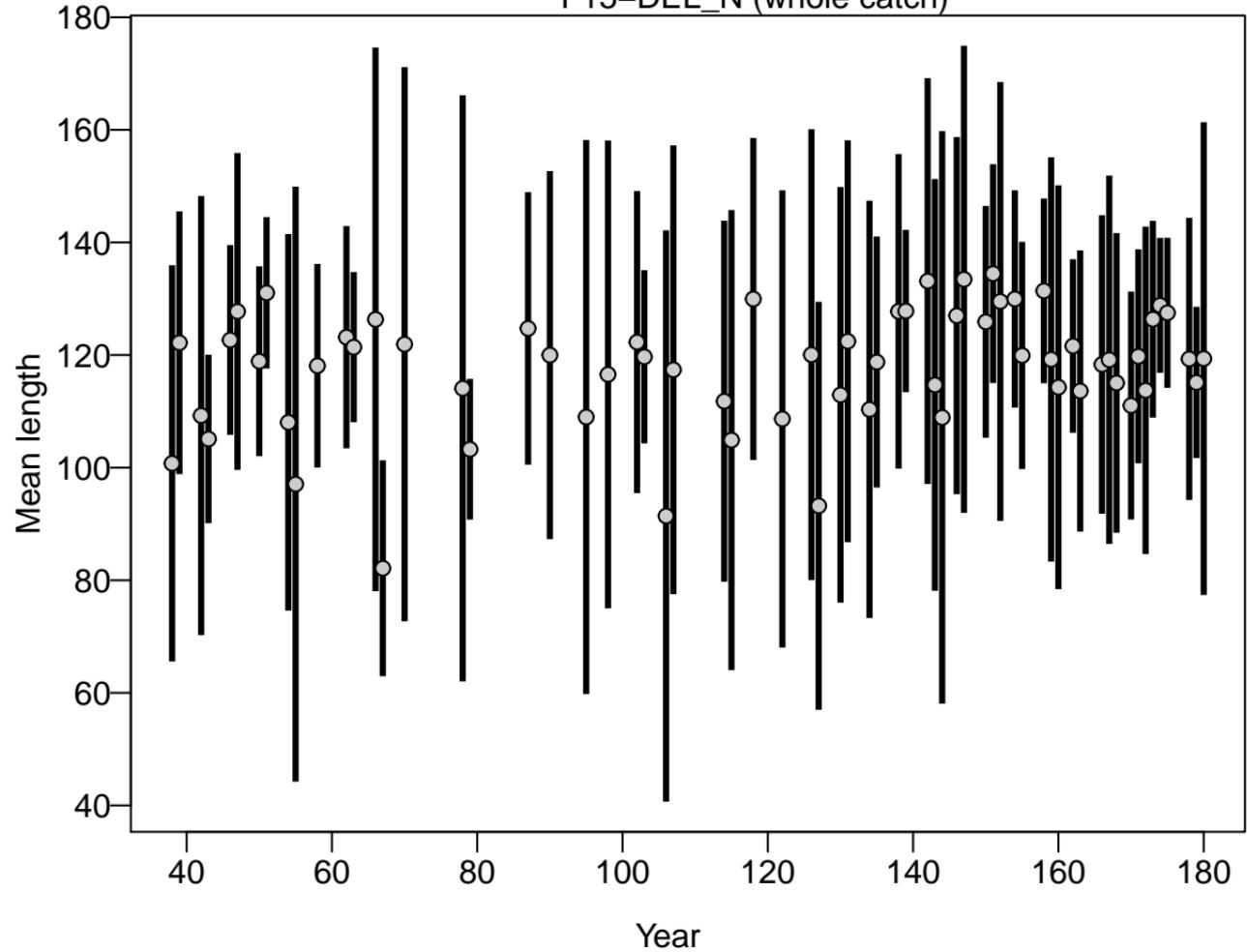
Proportion

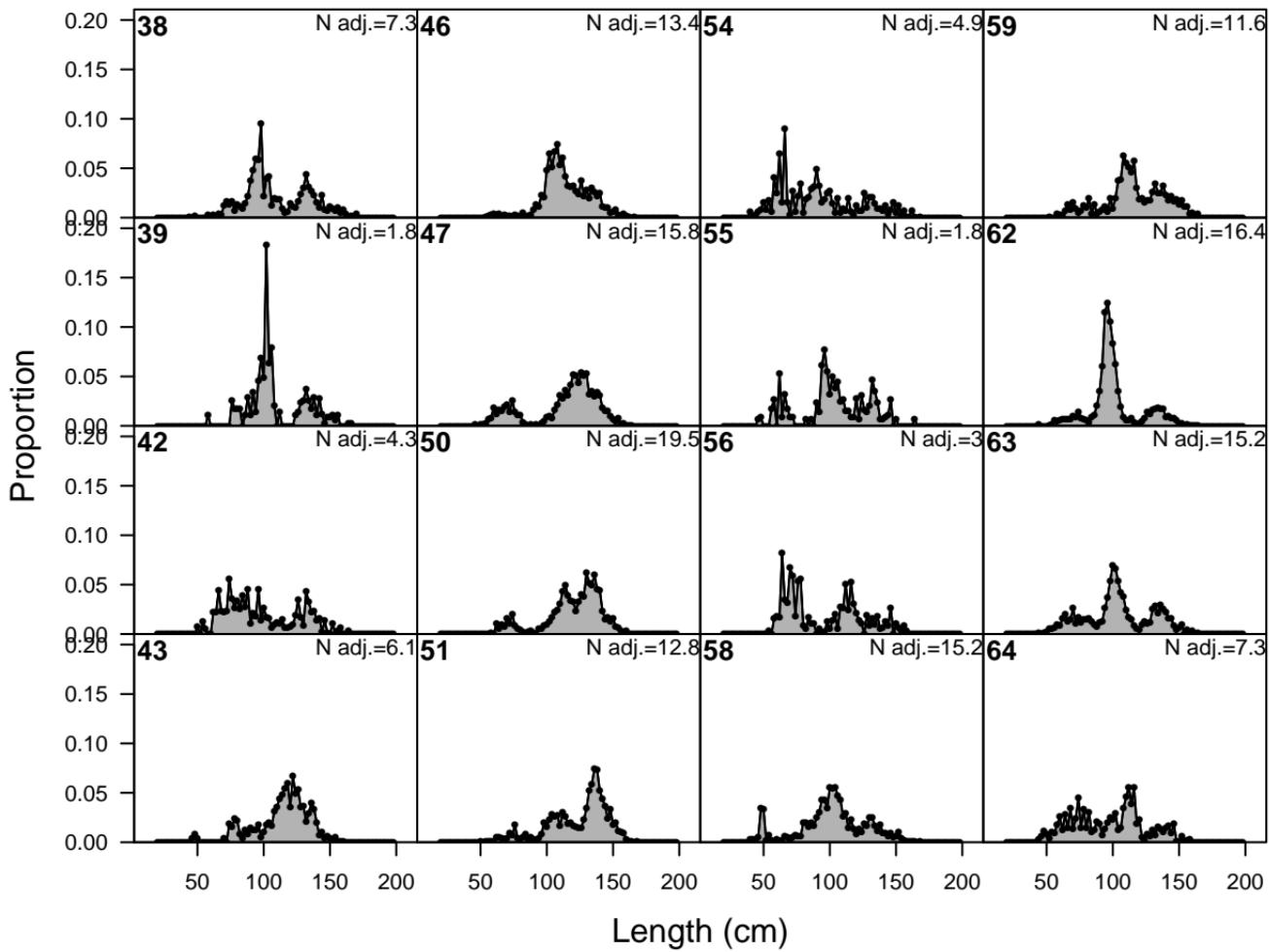


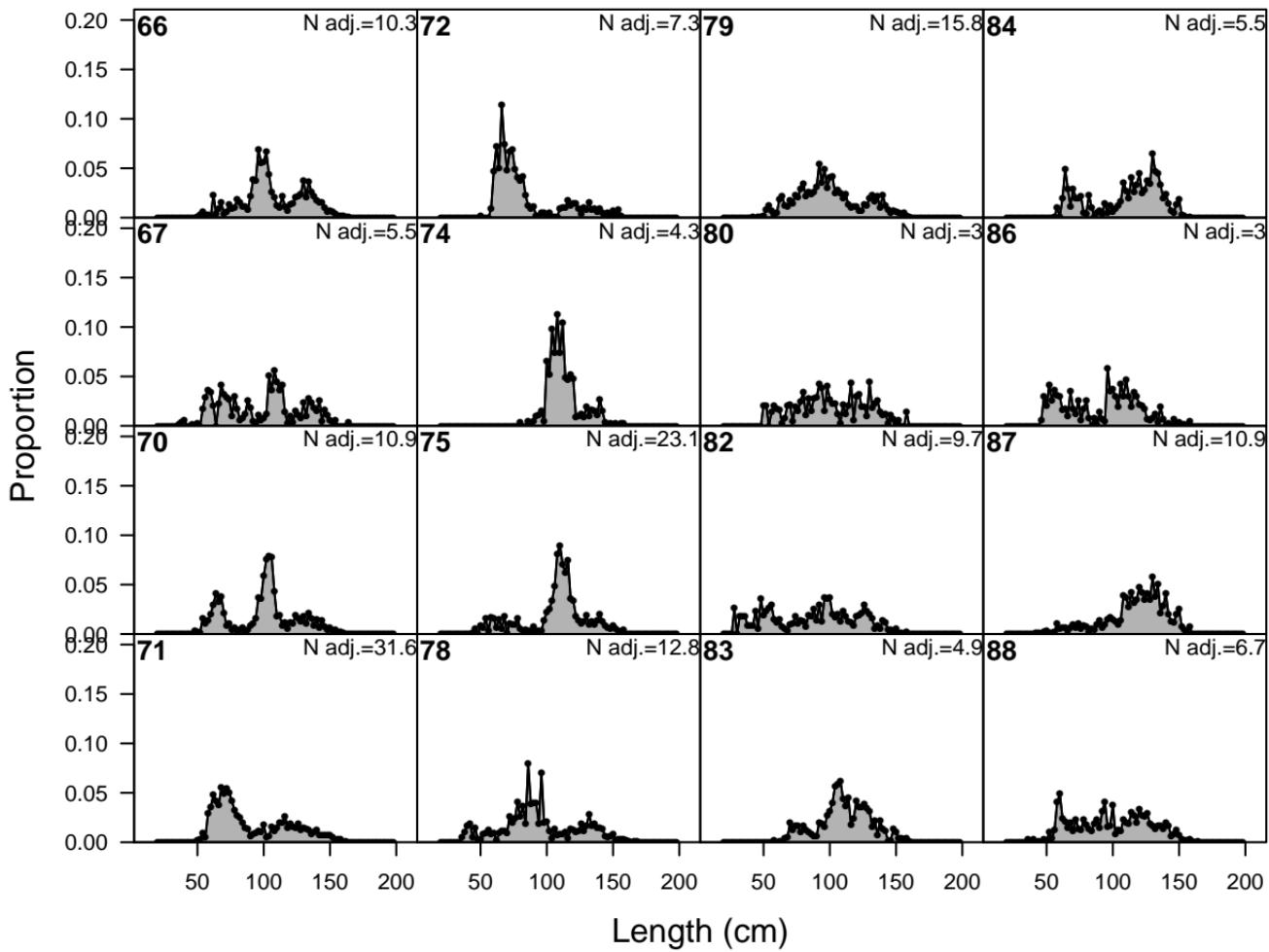
Length (cm)

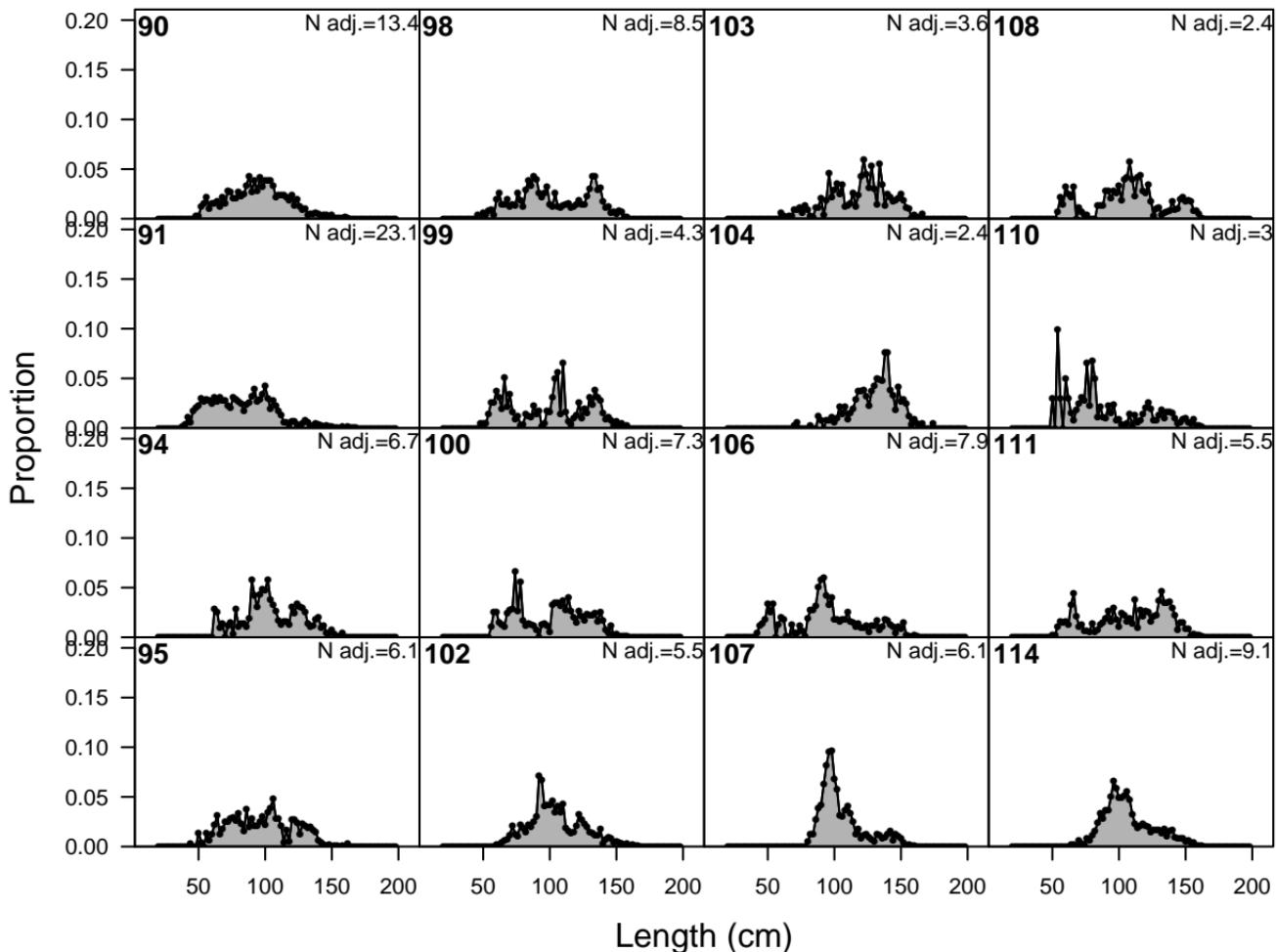


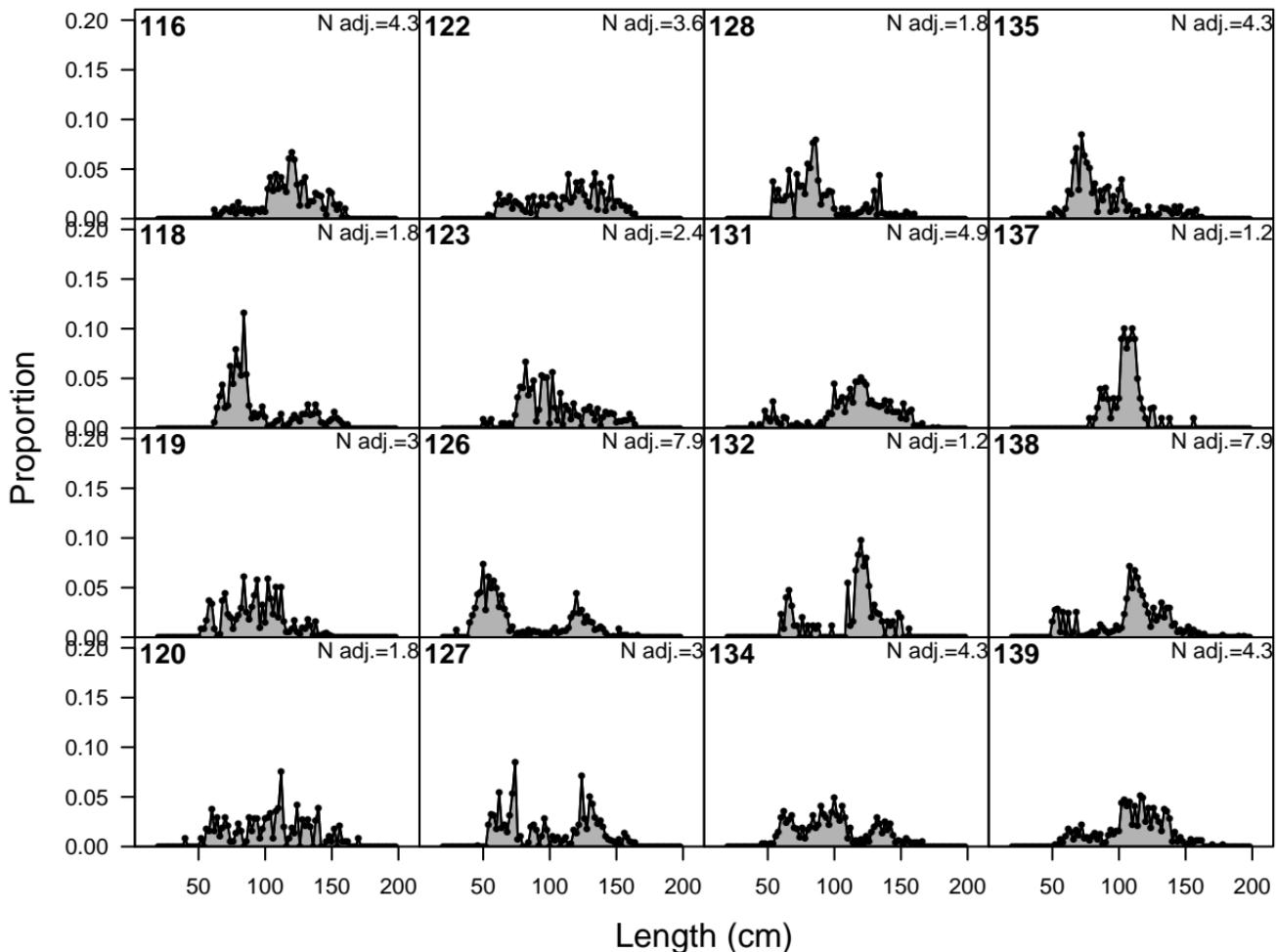
# F15-DEL\_N (whole catch)

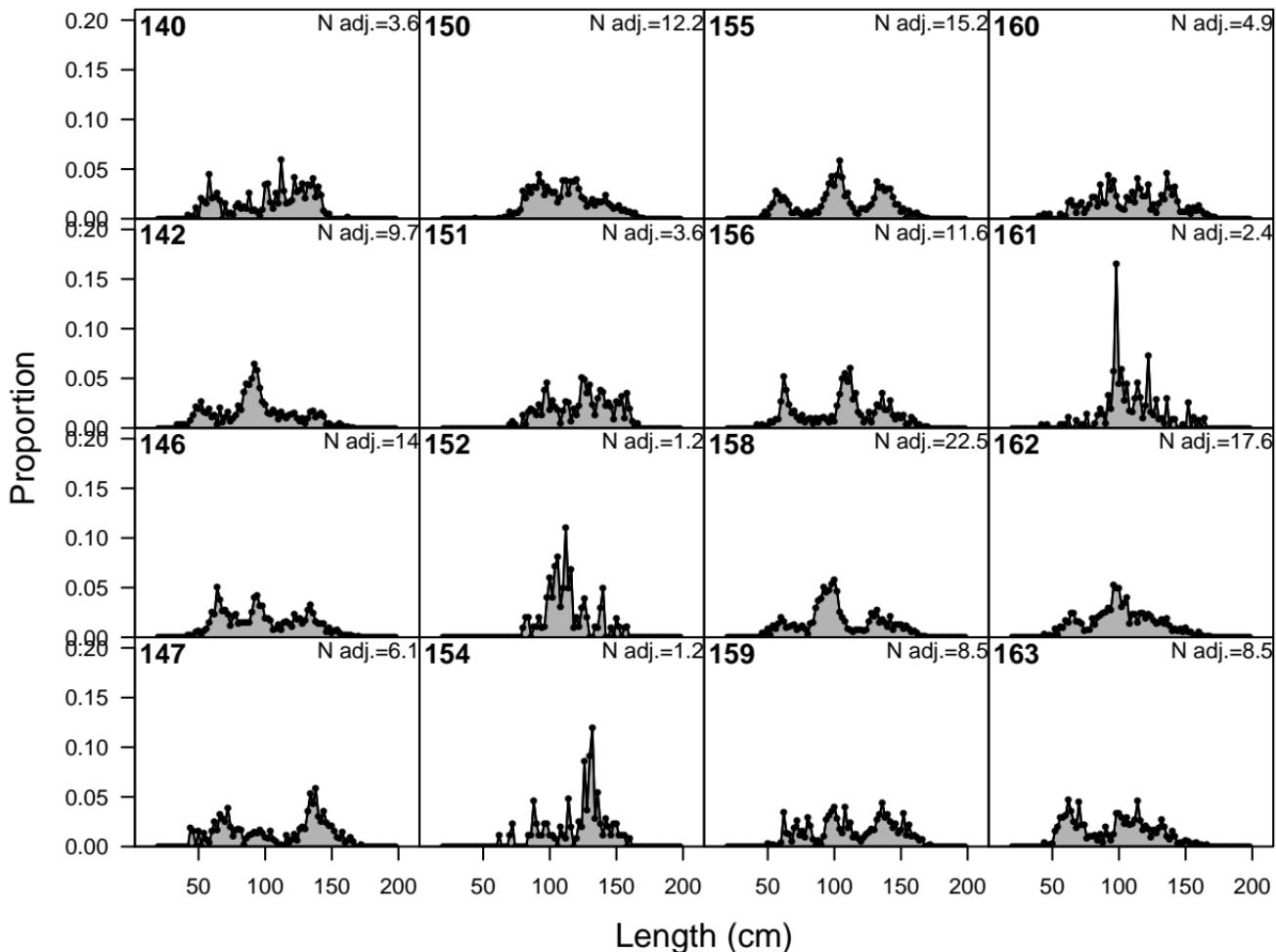


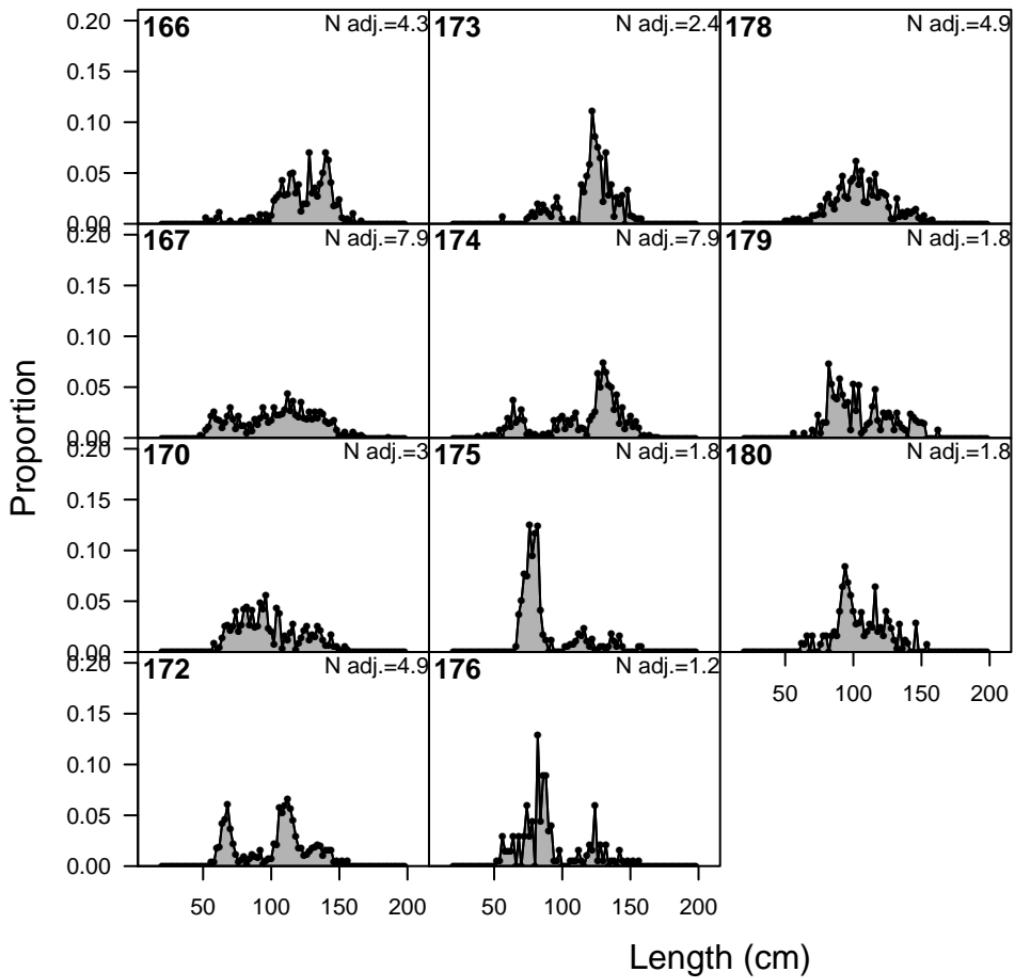


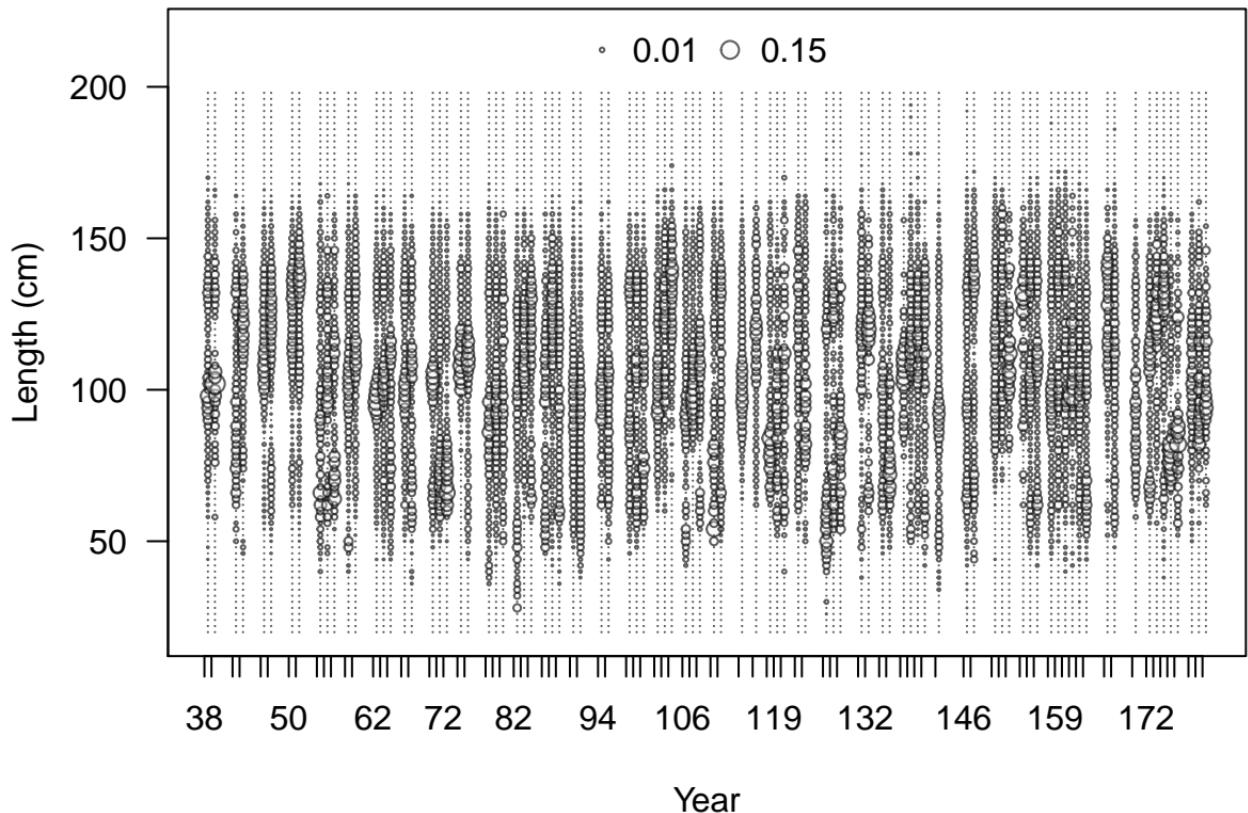




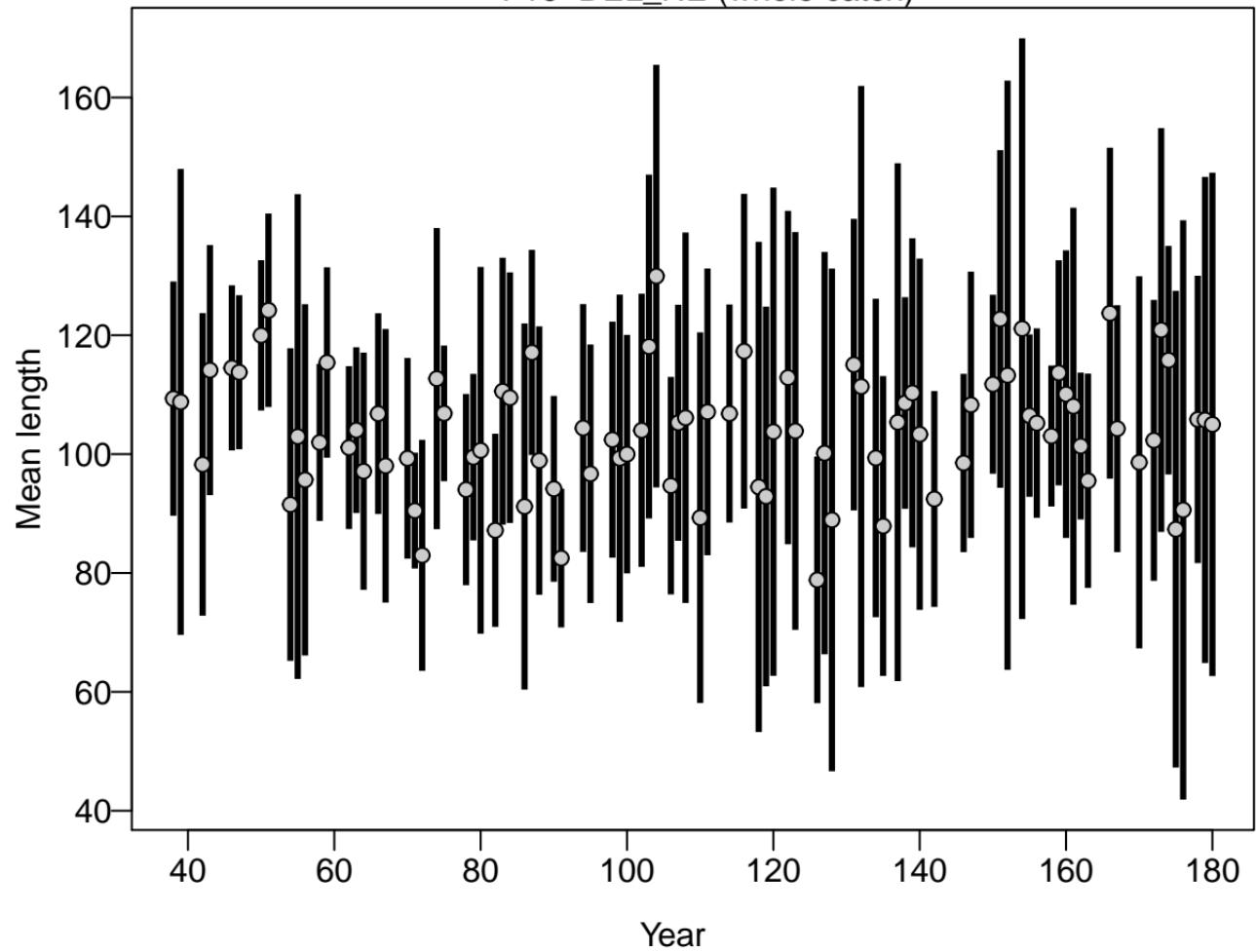




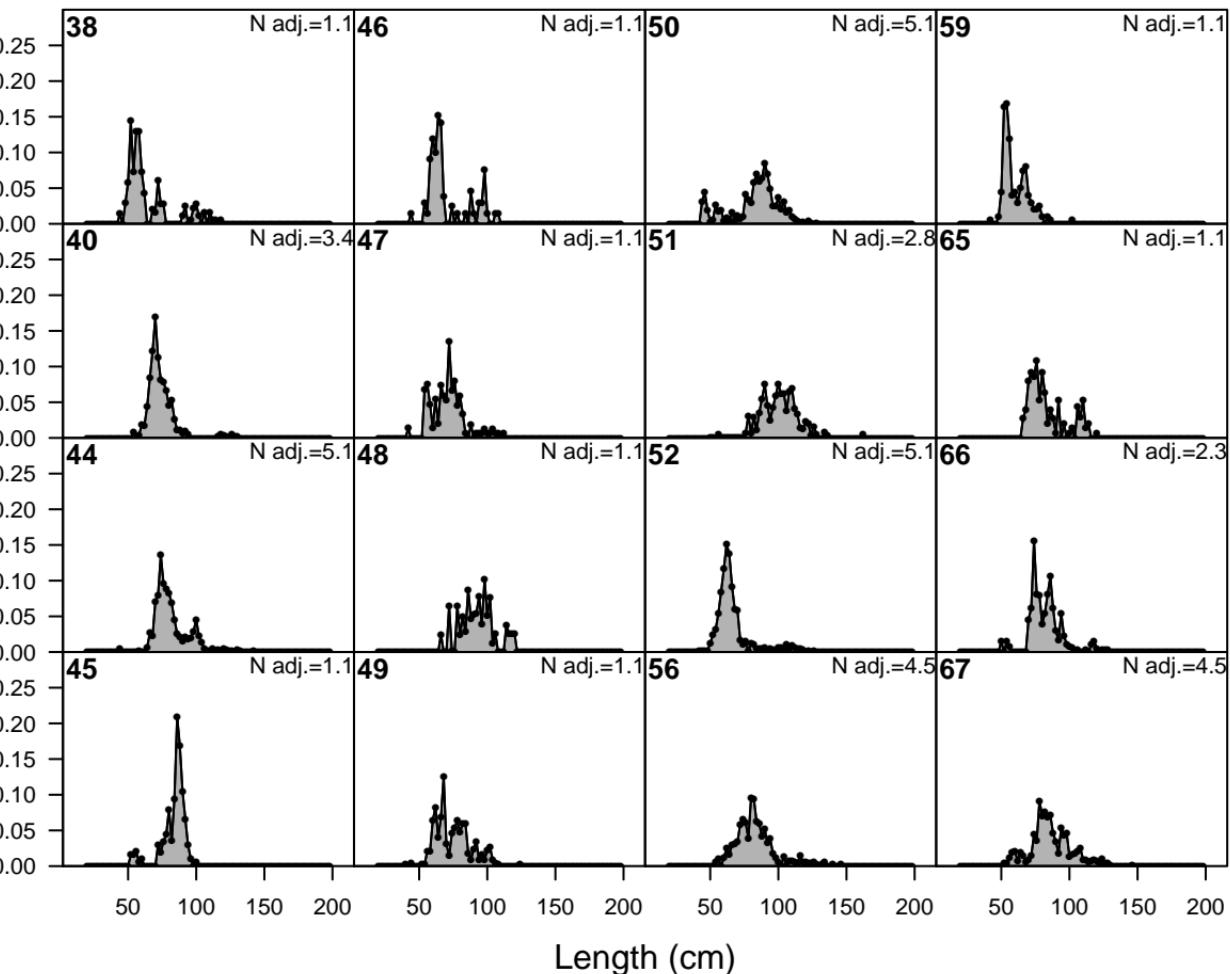


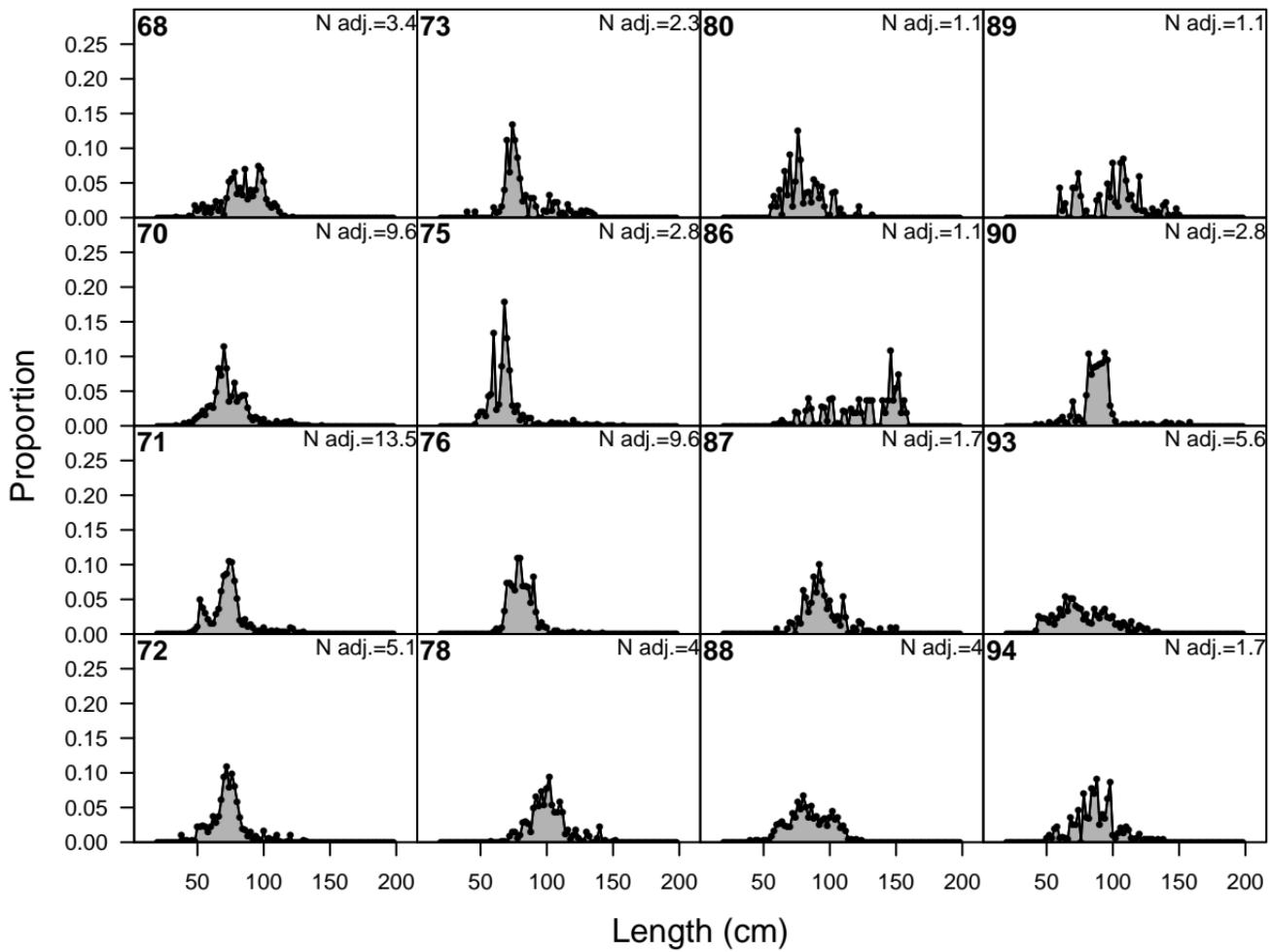


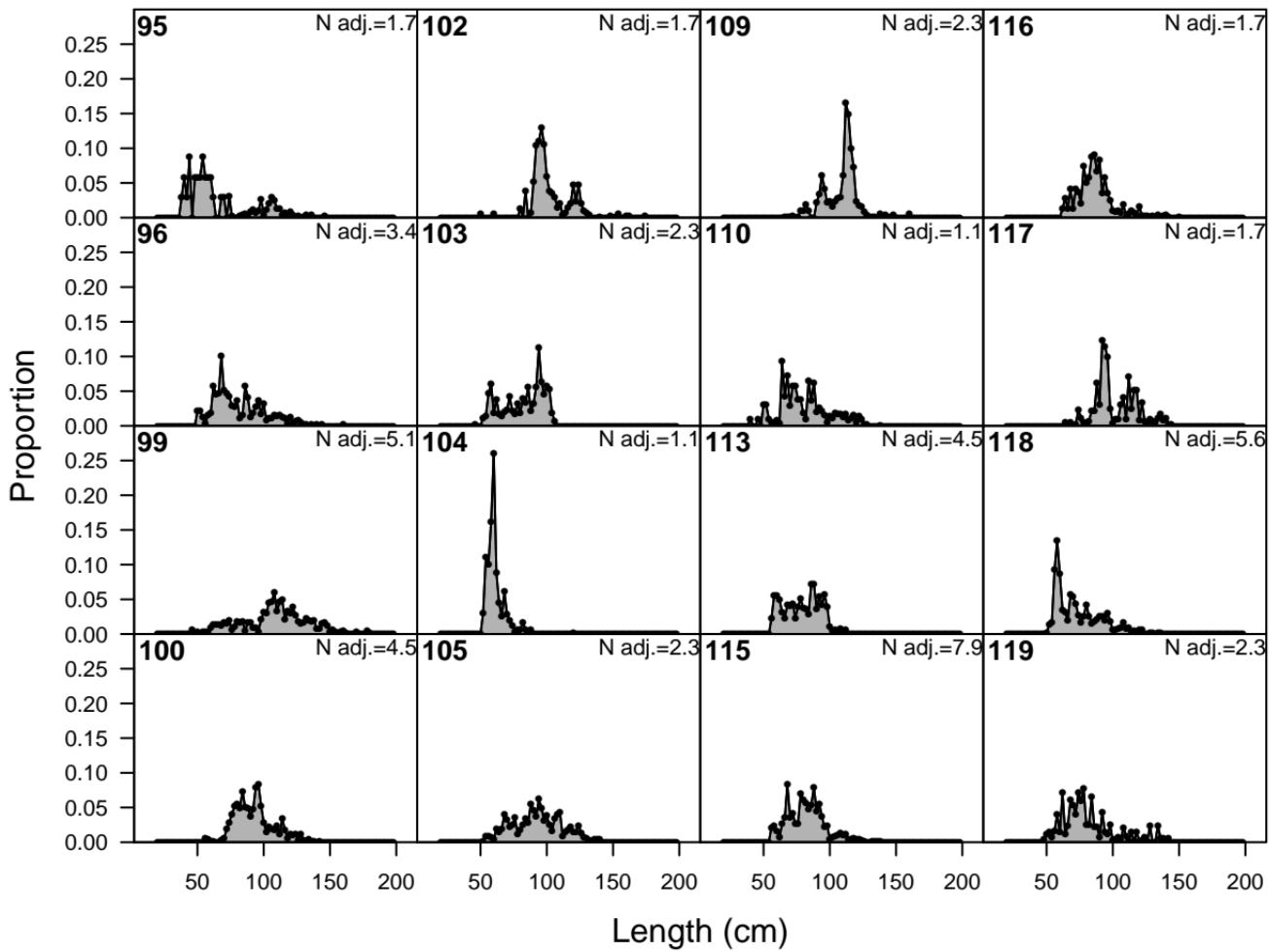
# F16-DEL\_NE (whole catch)

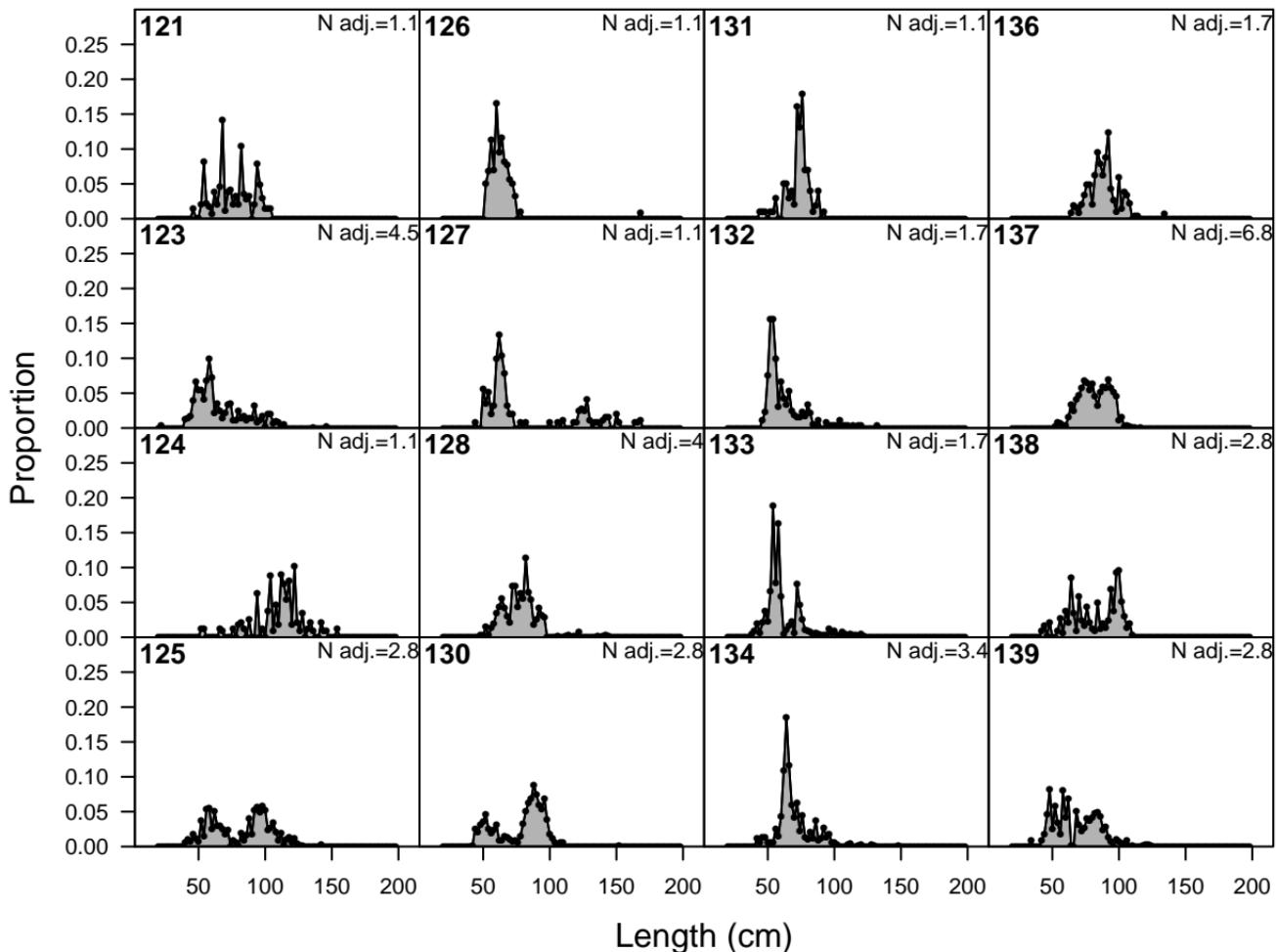


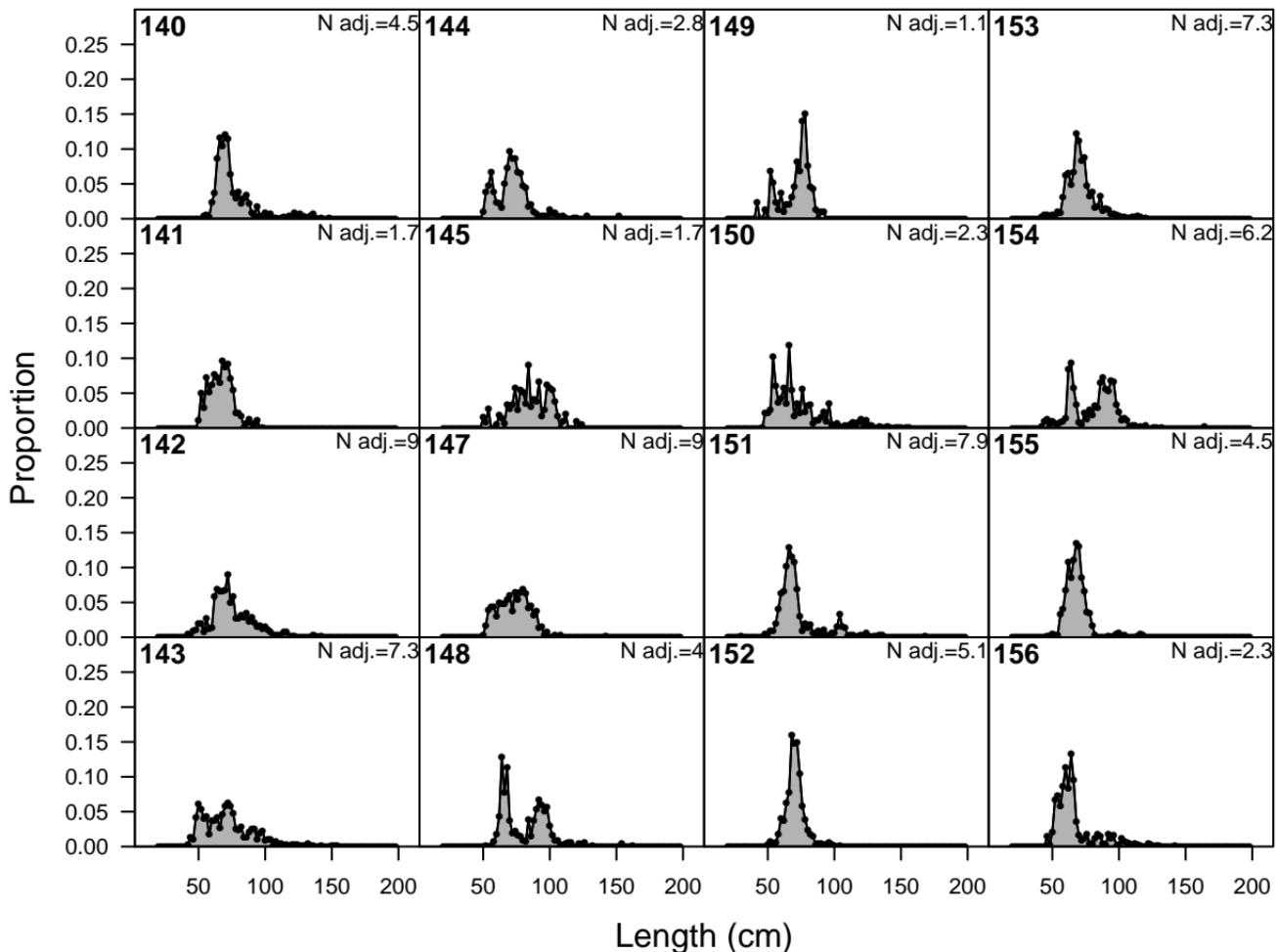
Proportion

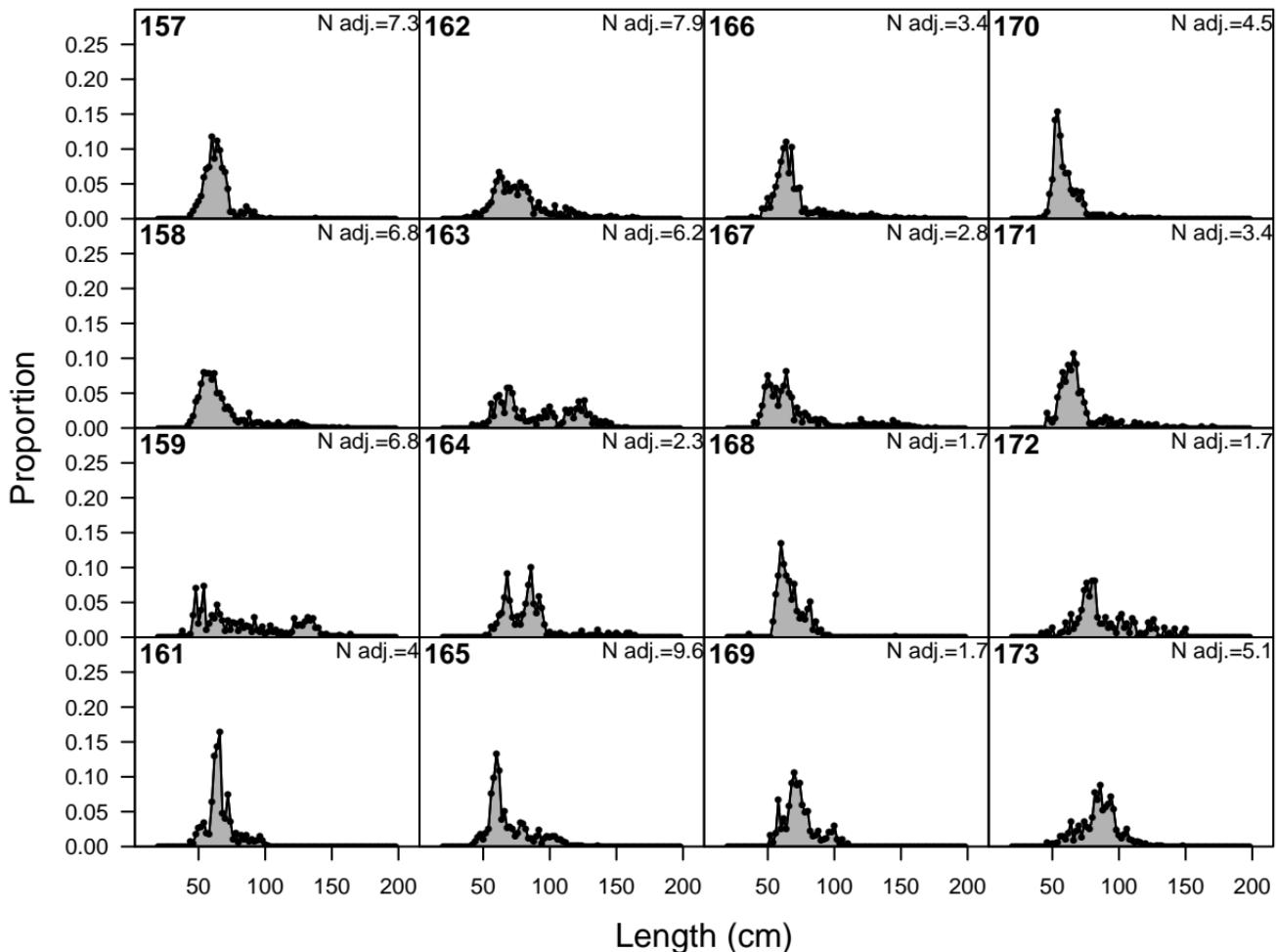


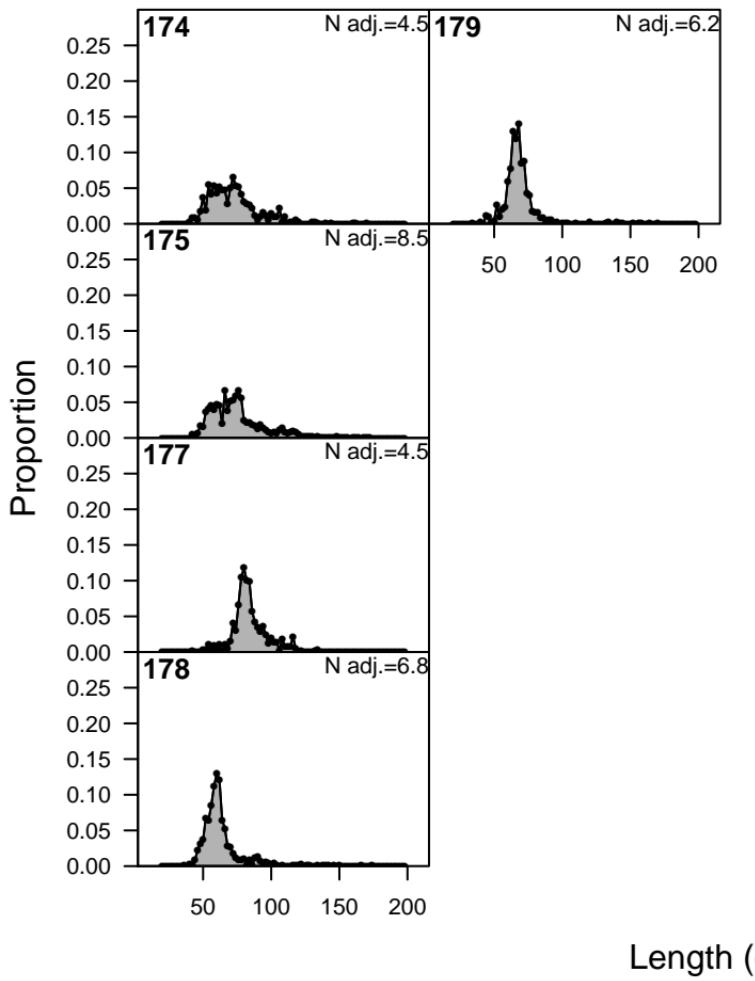


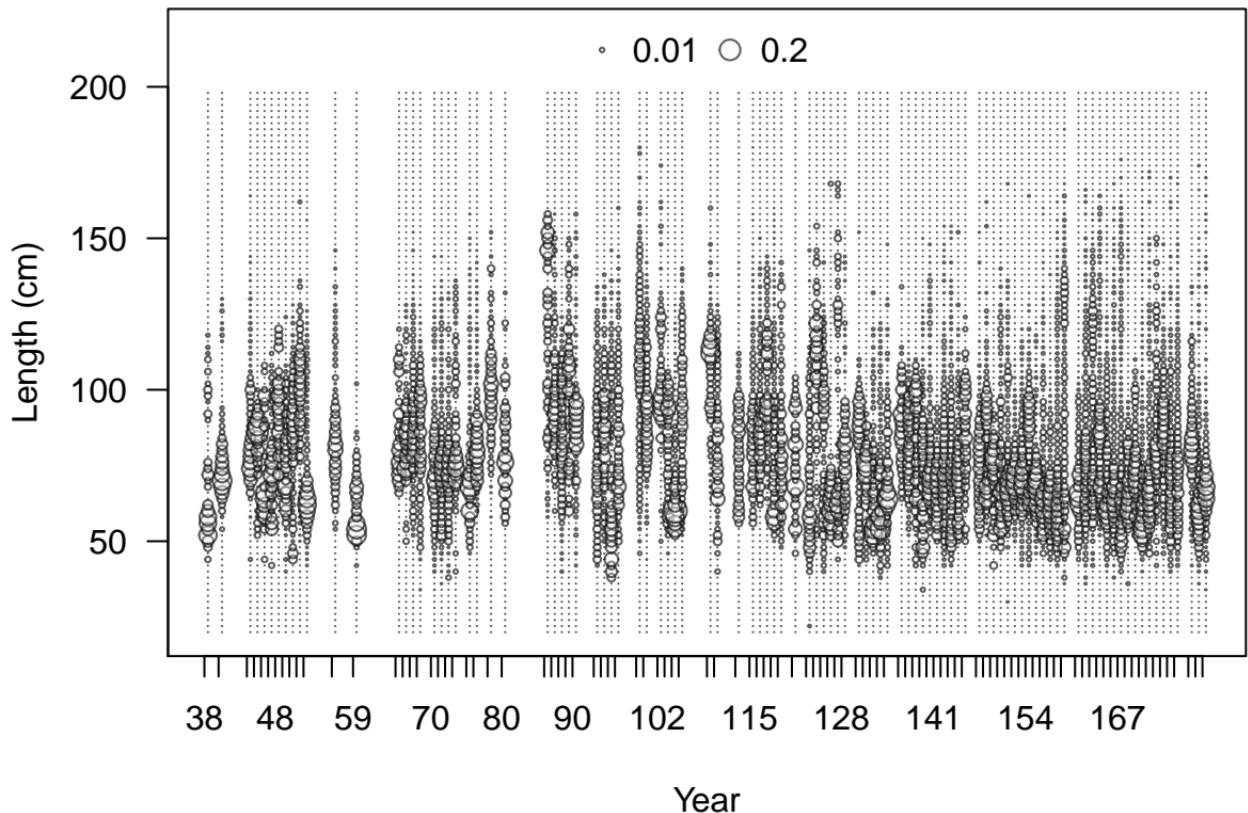




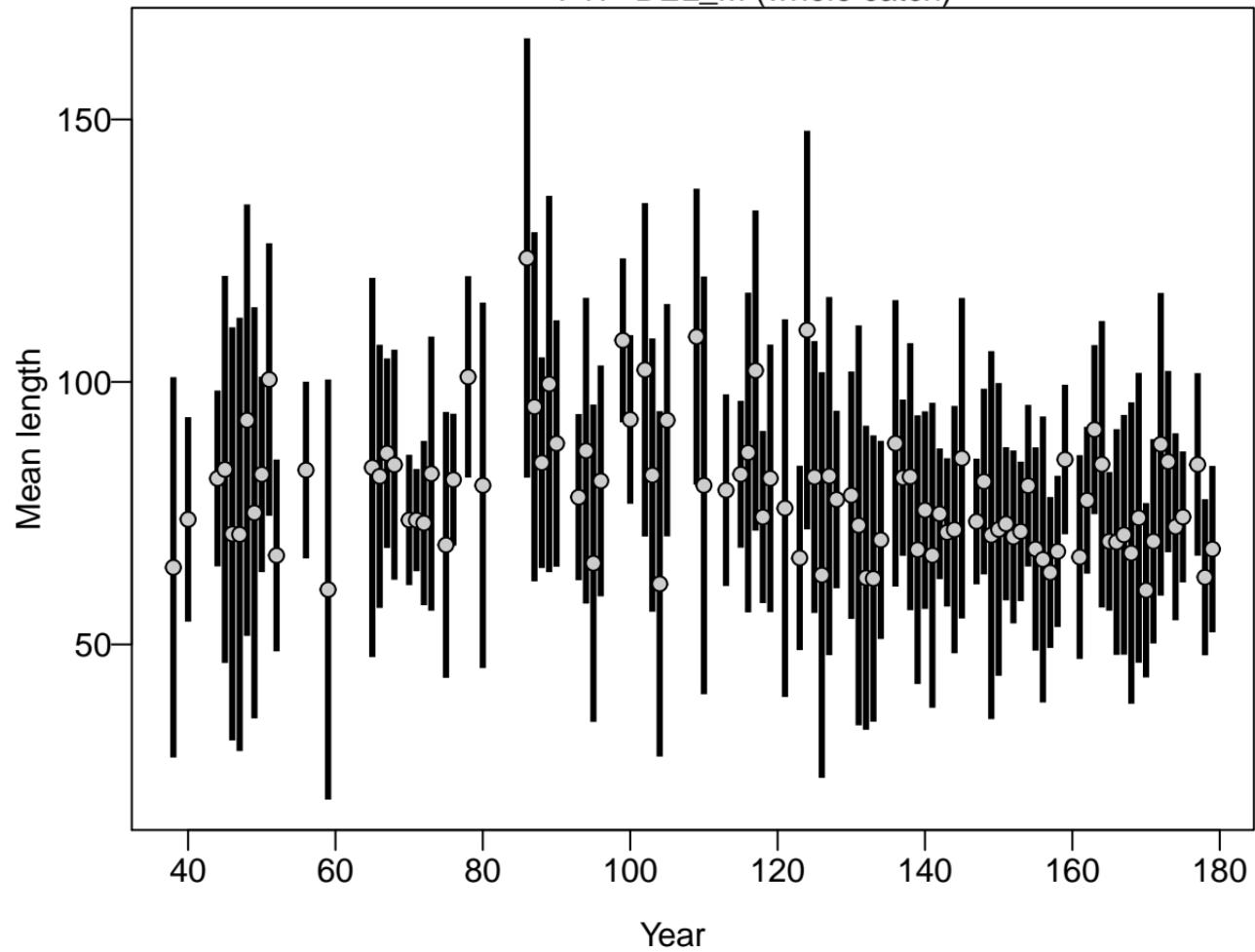


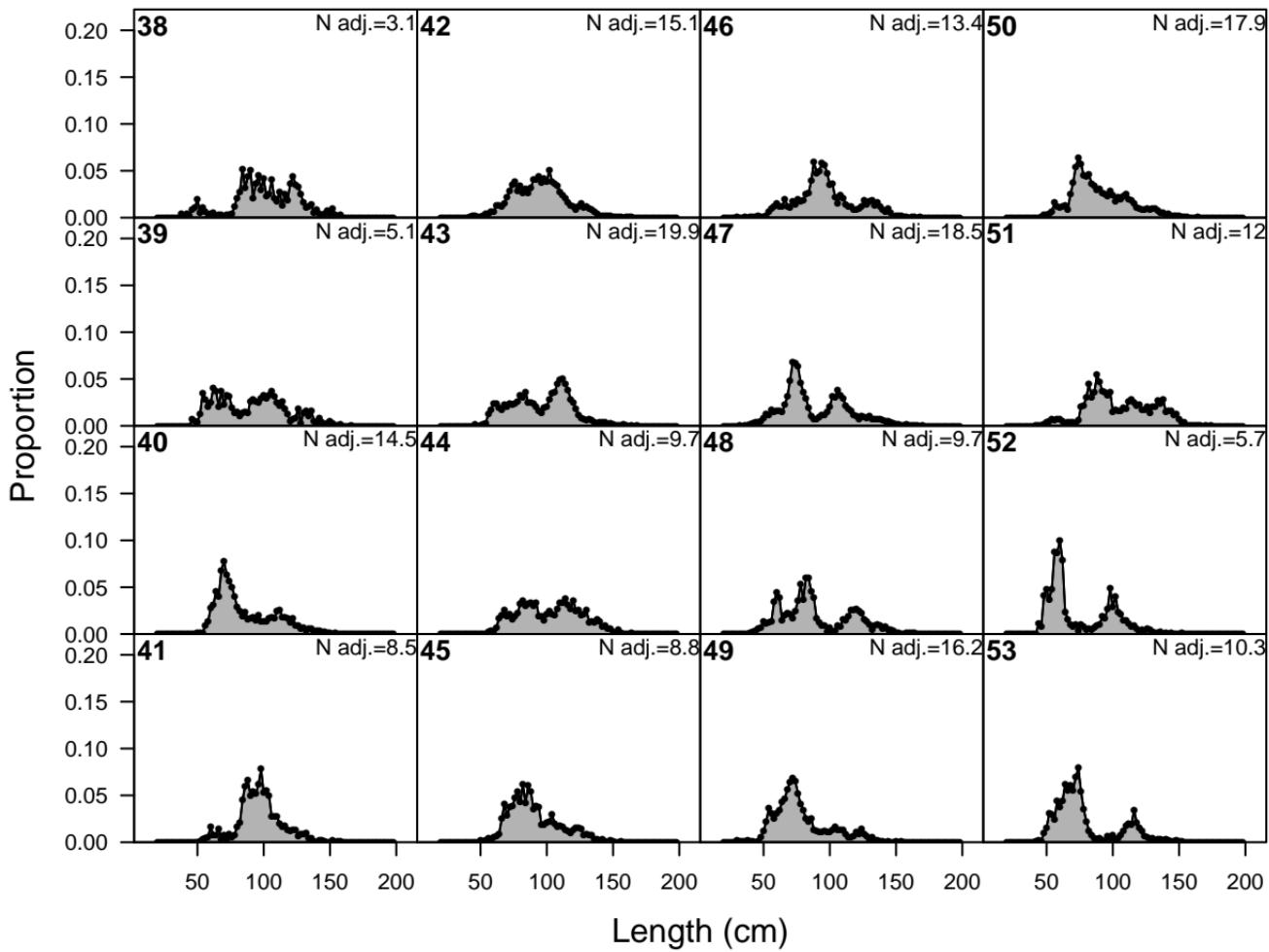


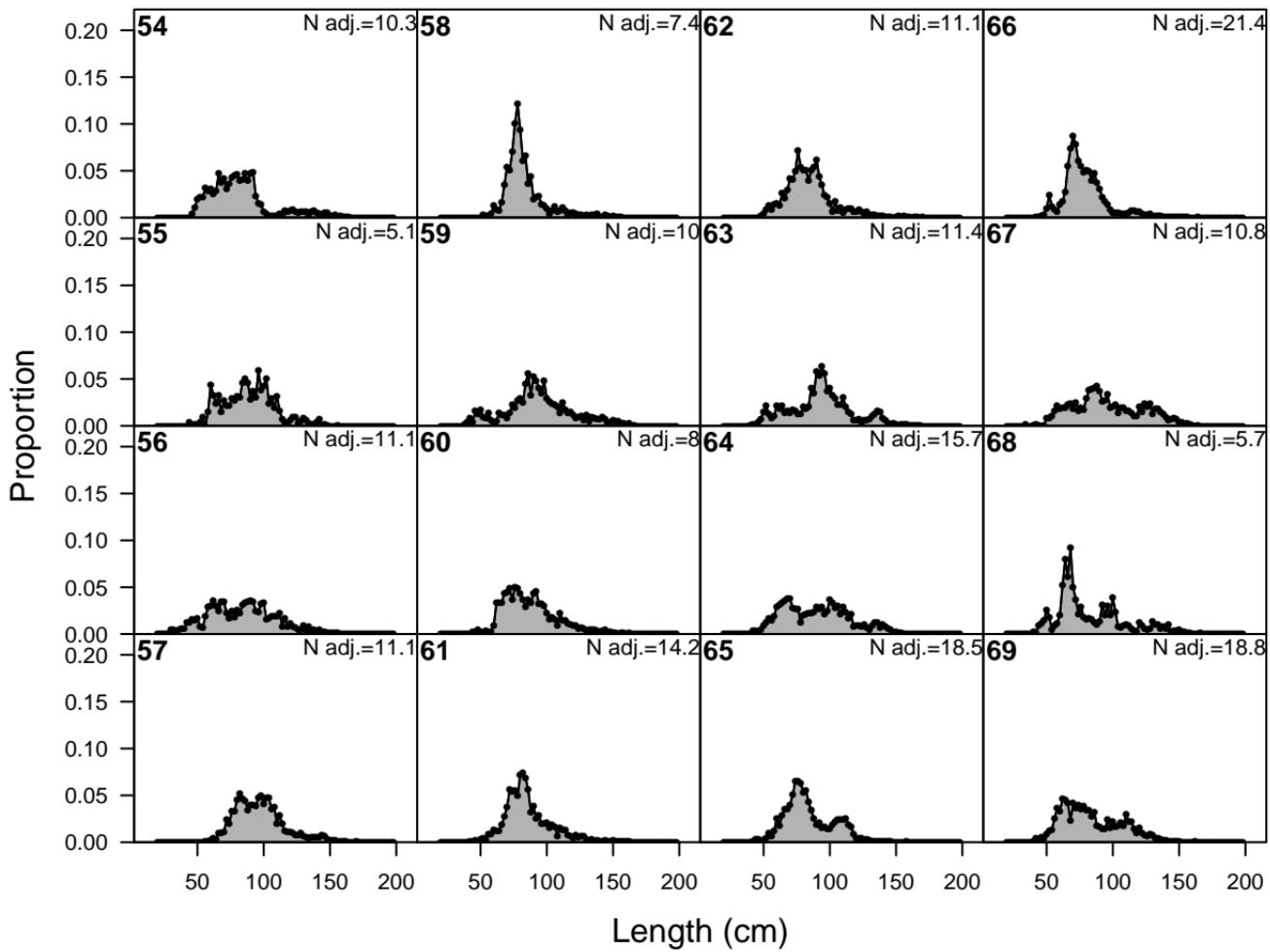


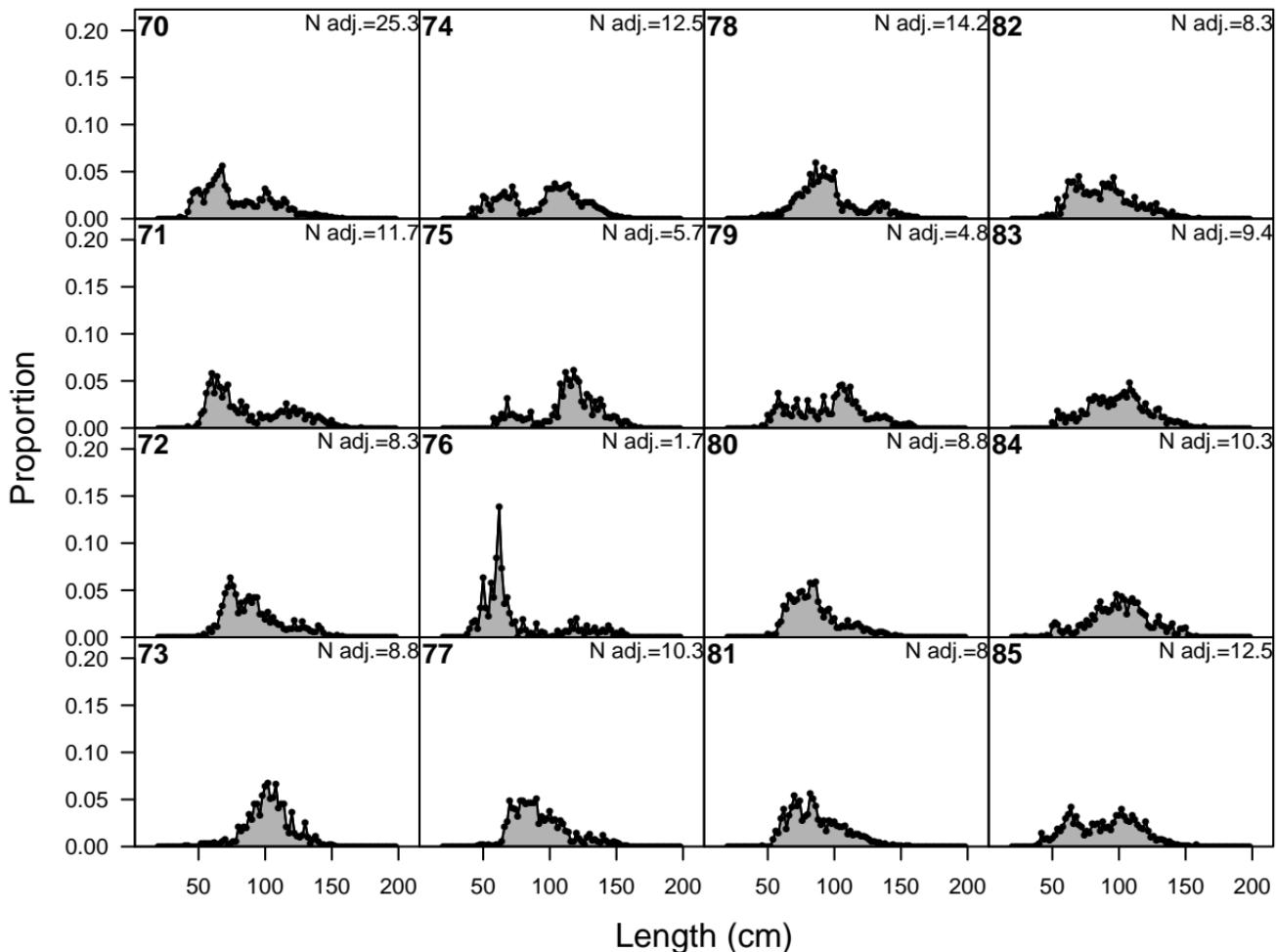


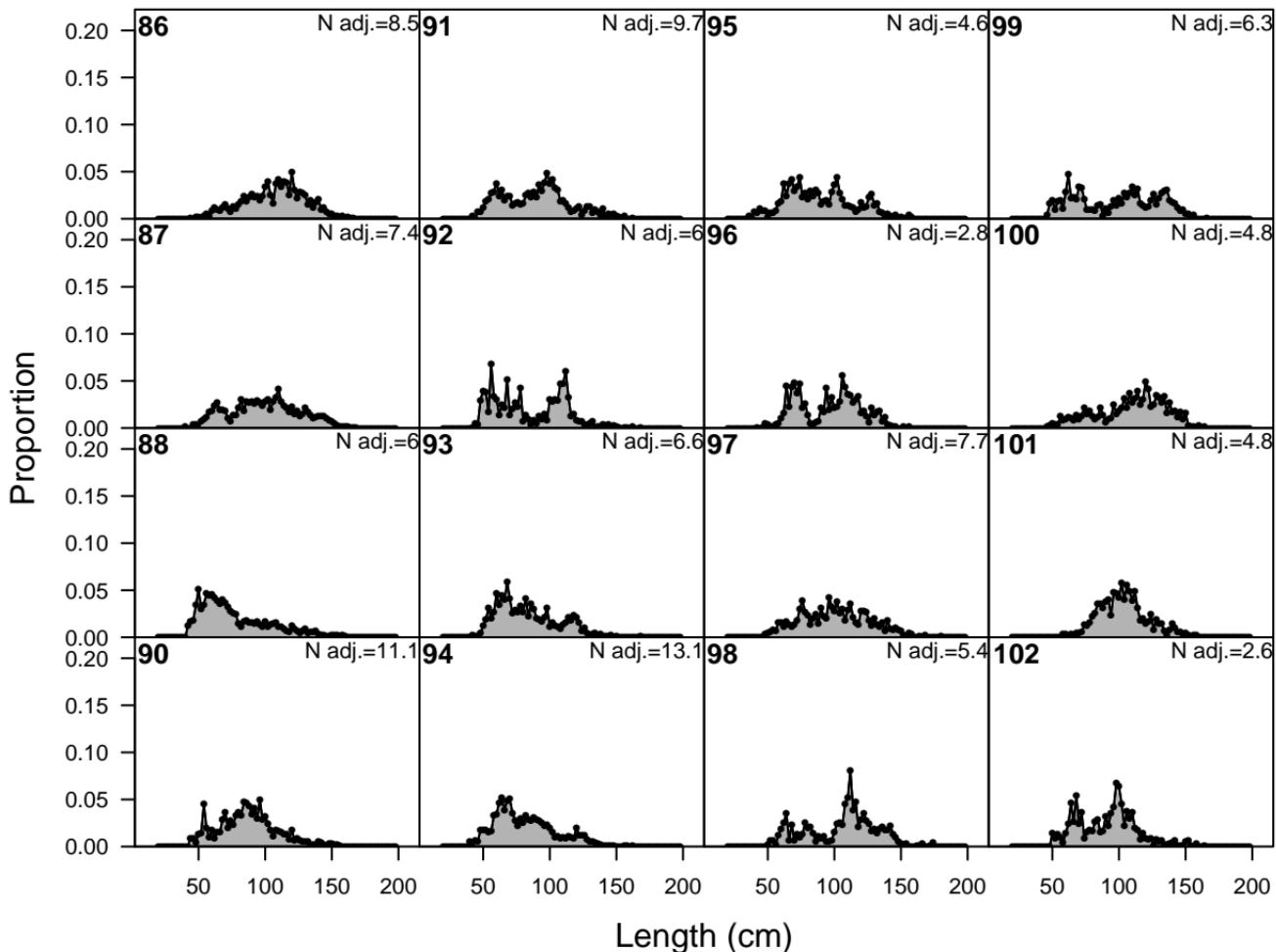
# F17-DEL\_M (whole catch)

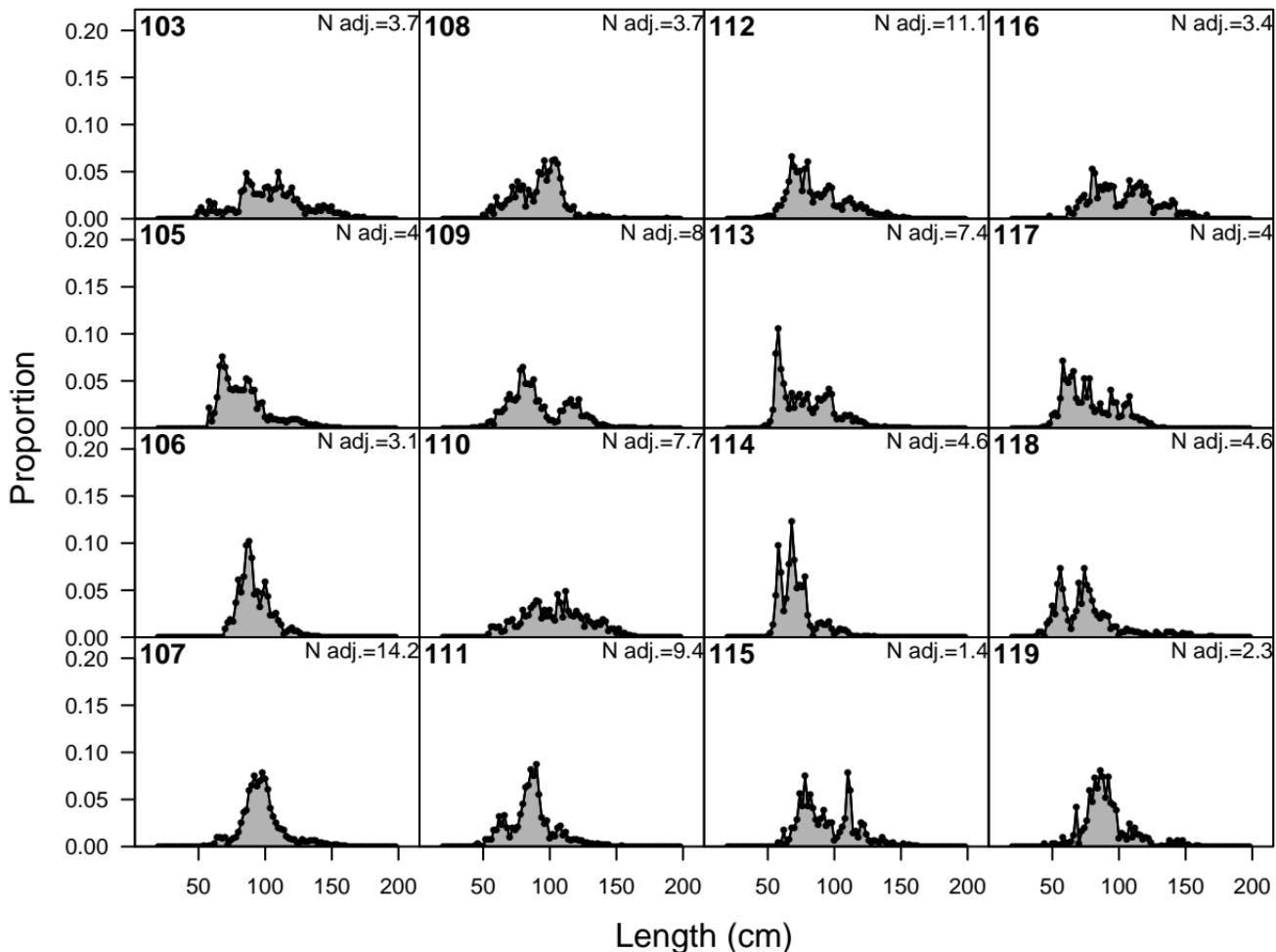


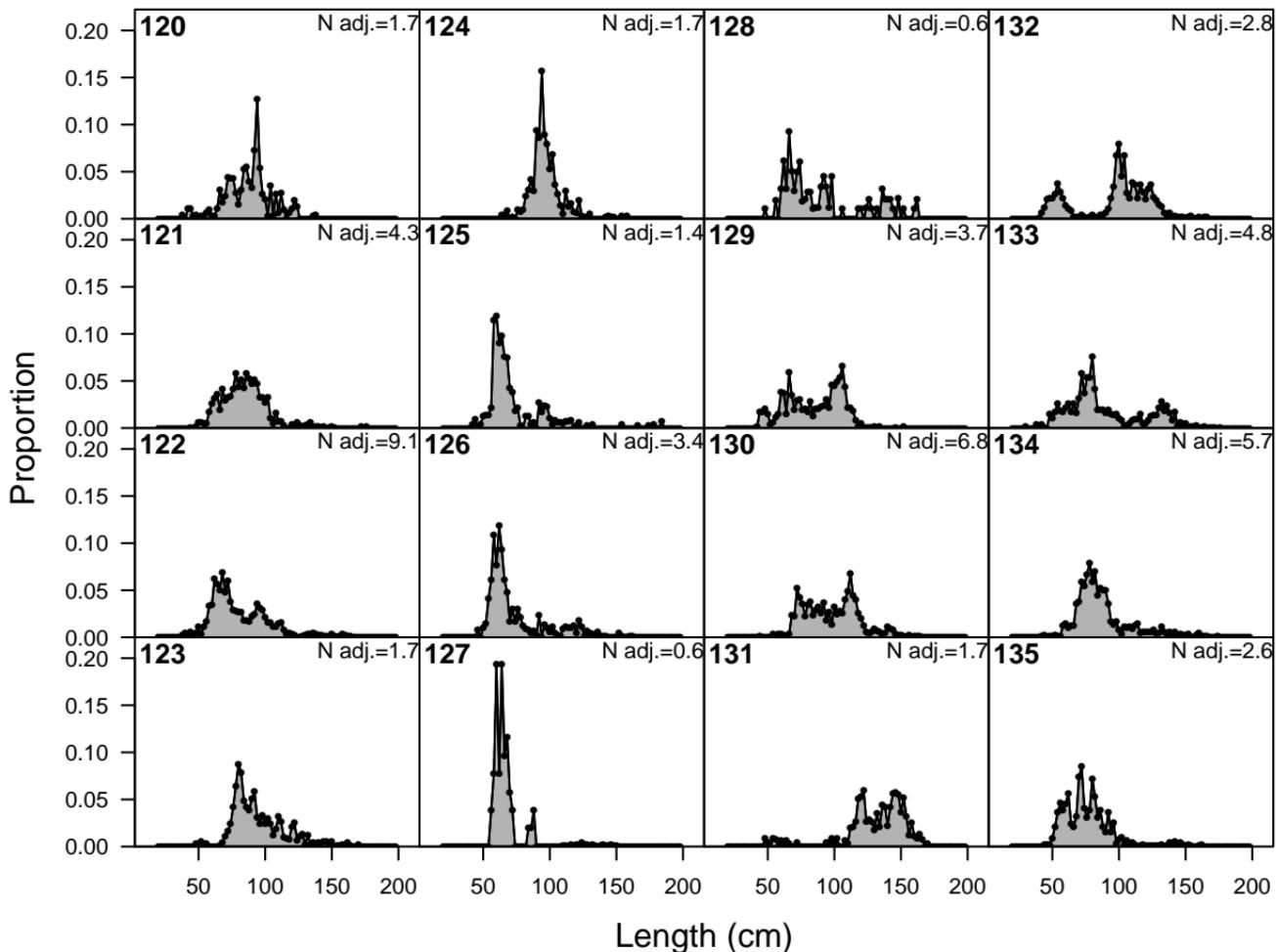


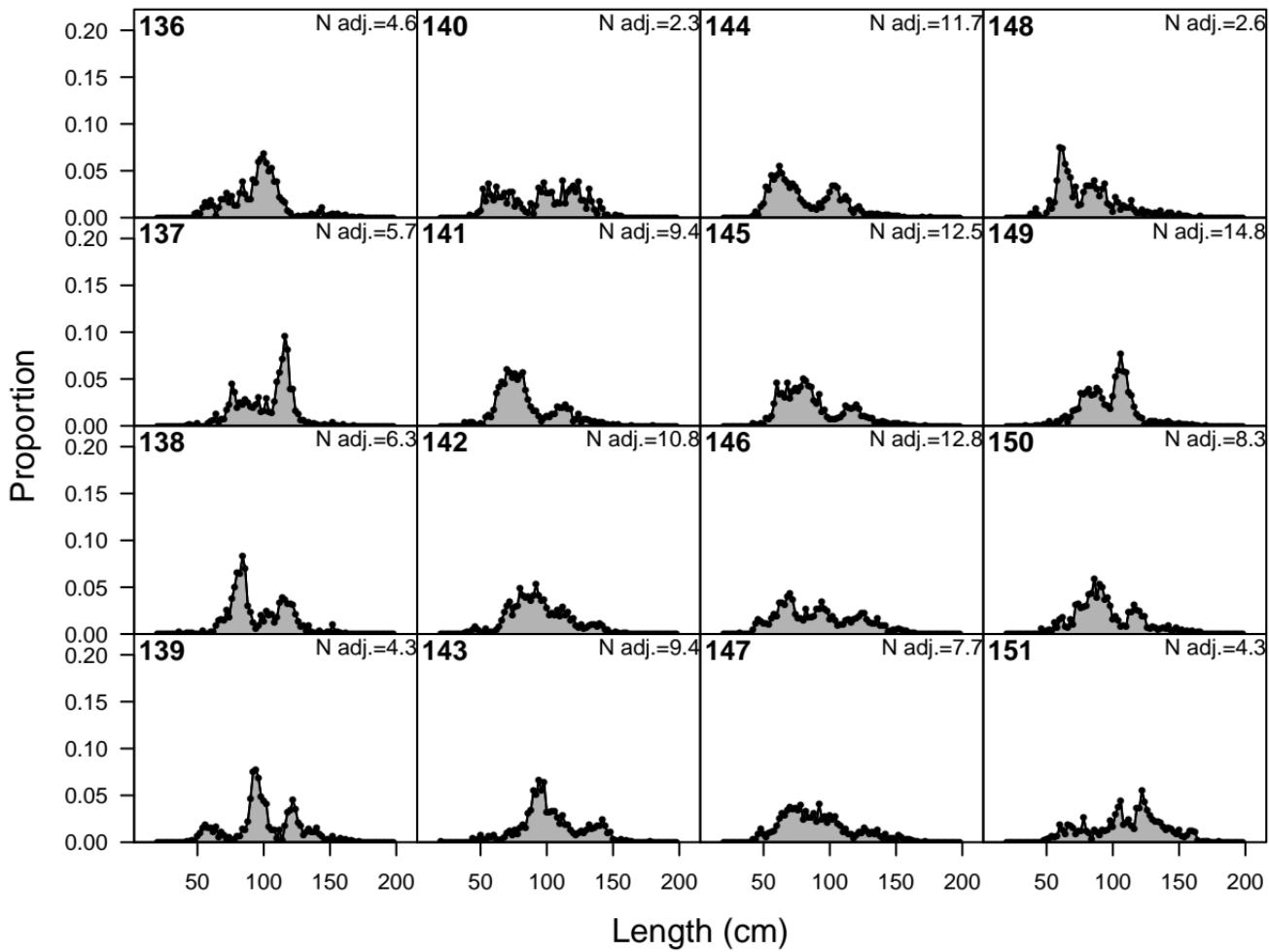


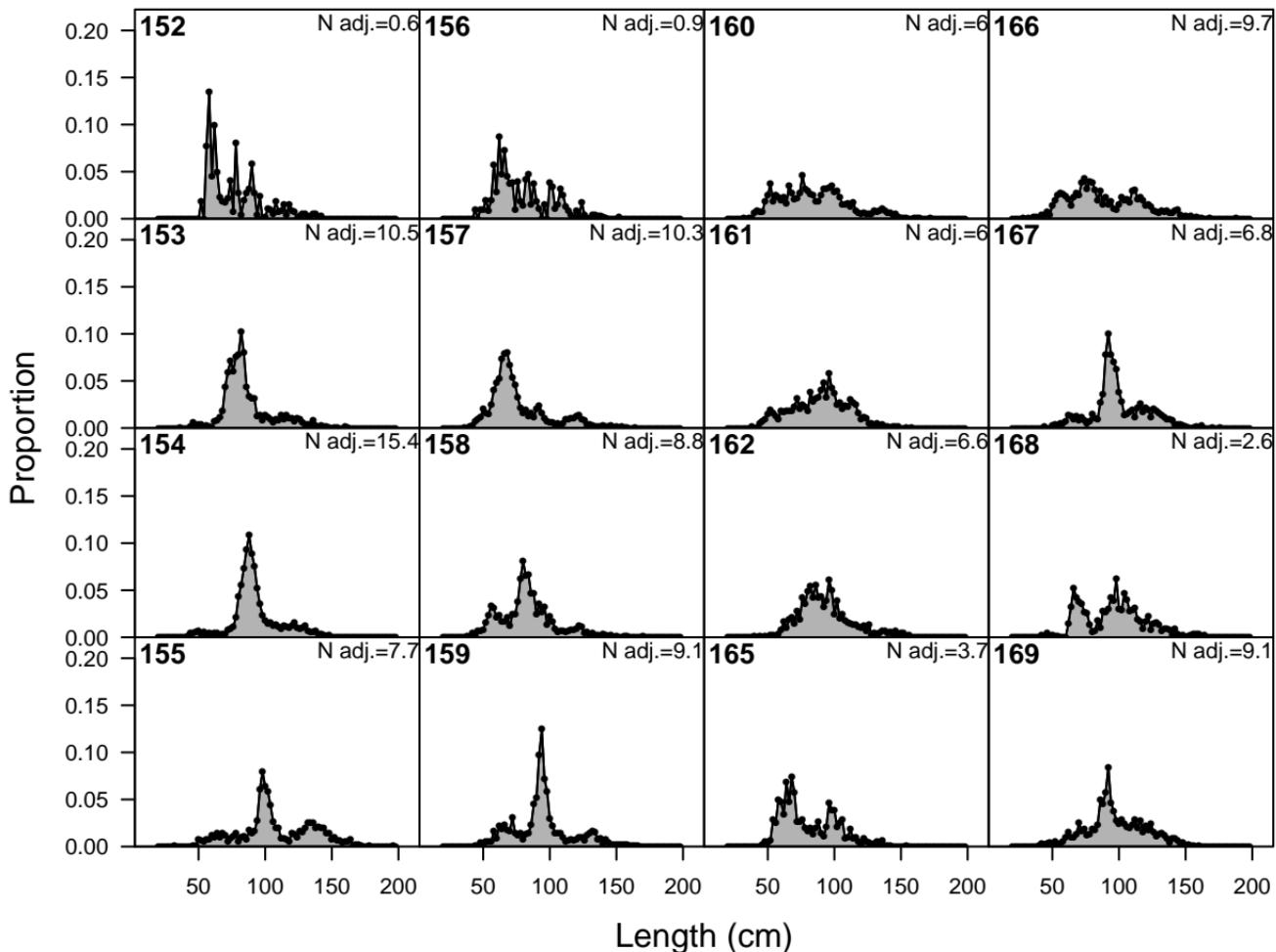


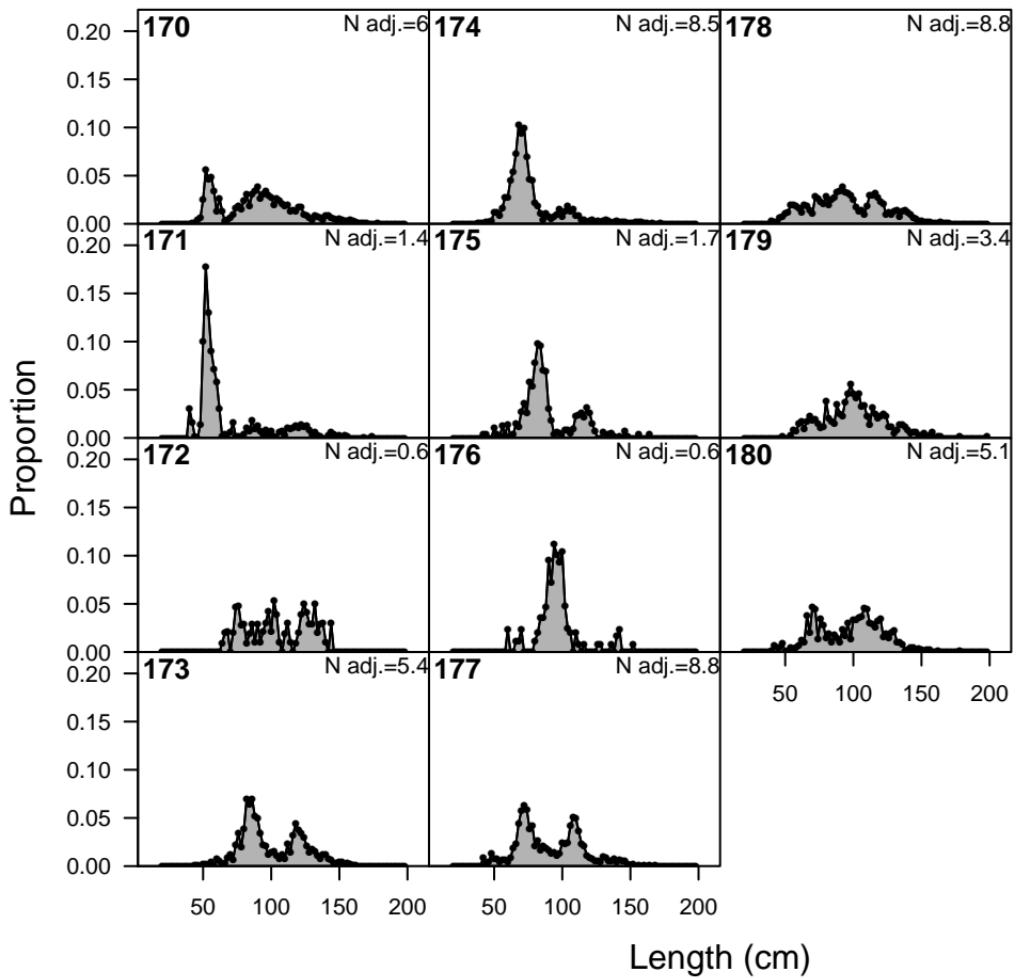


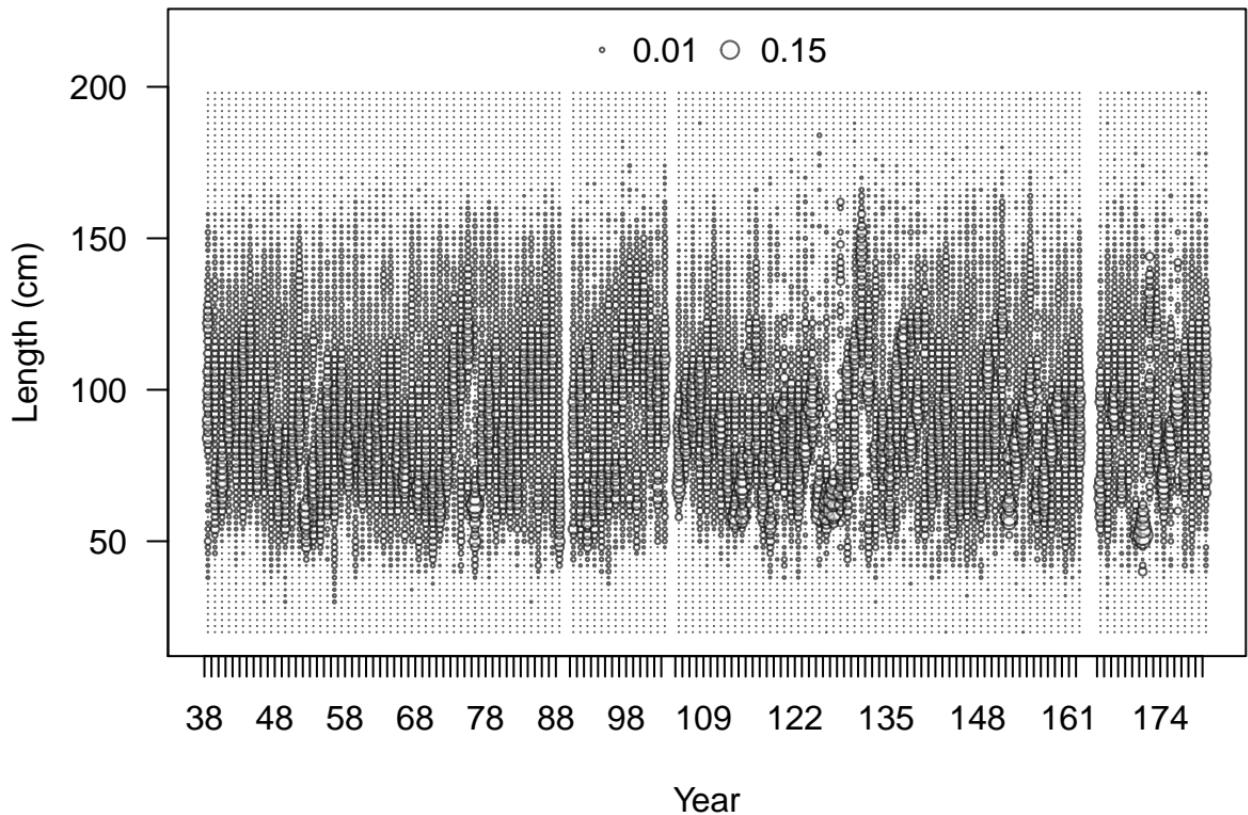




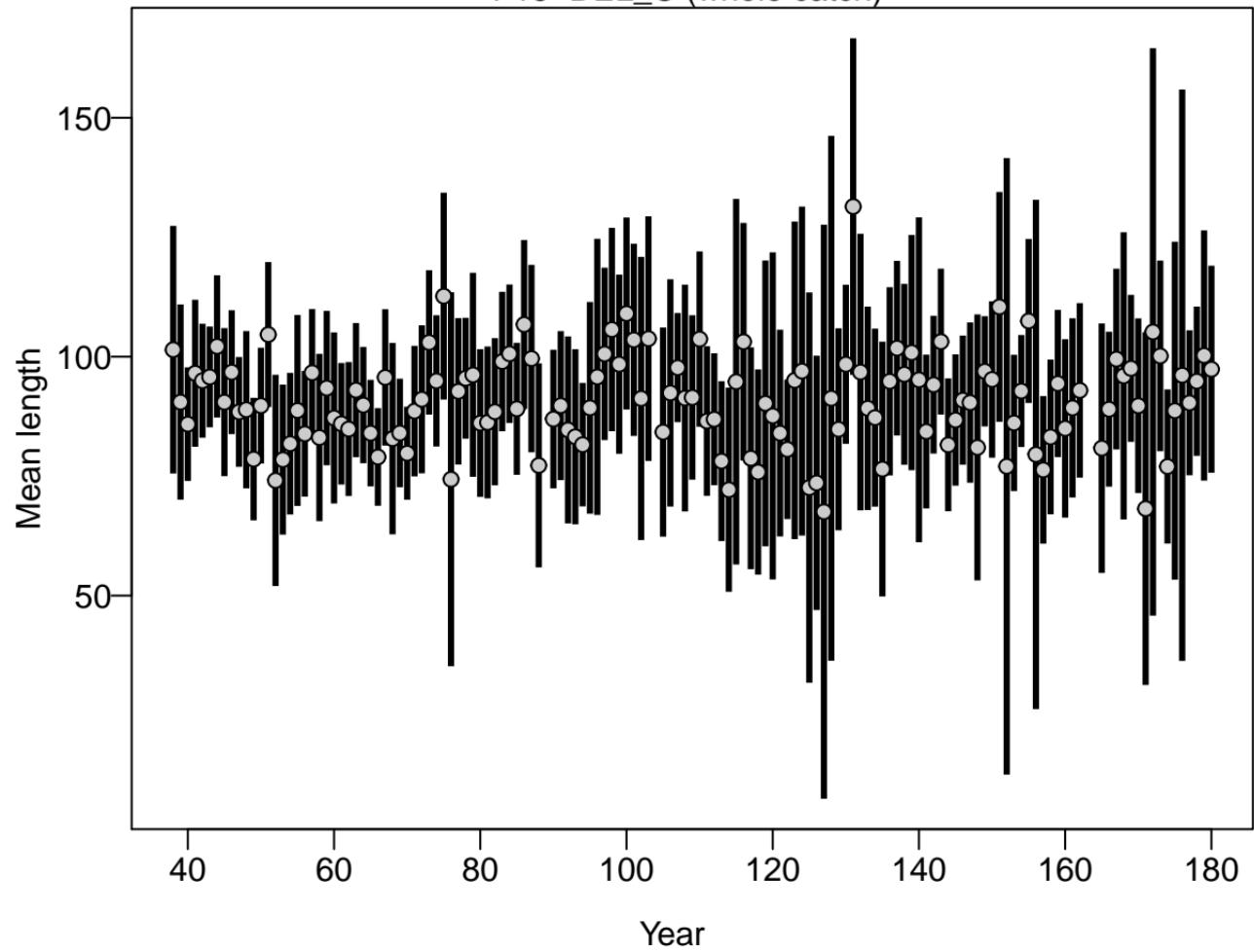


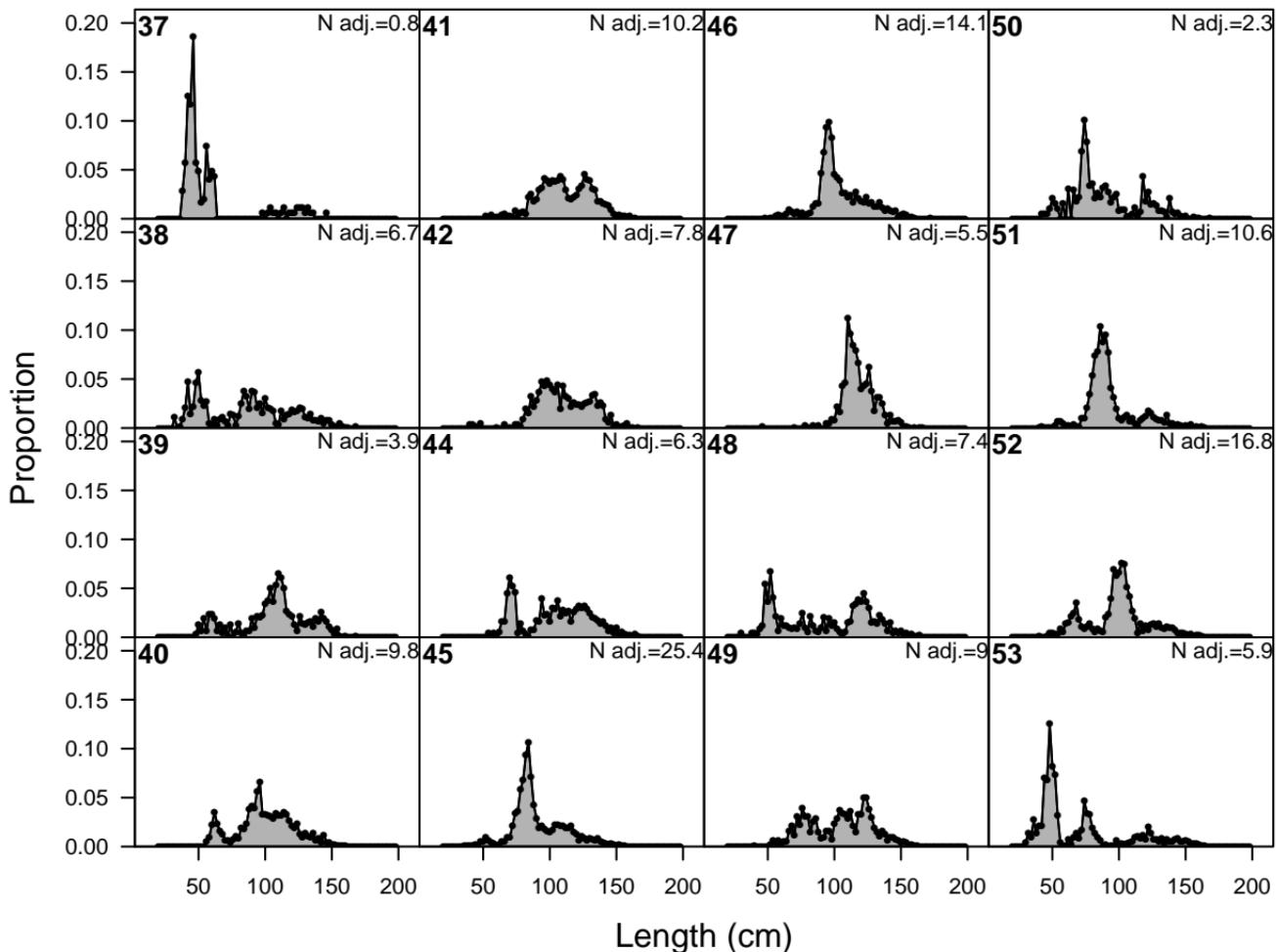


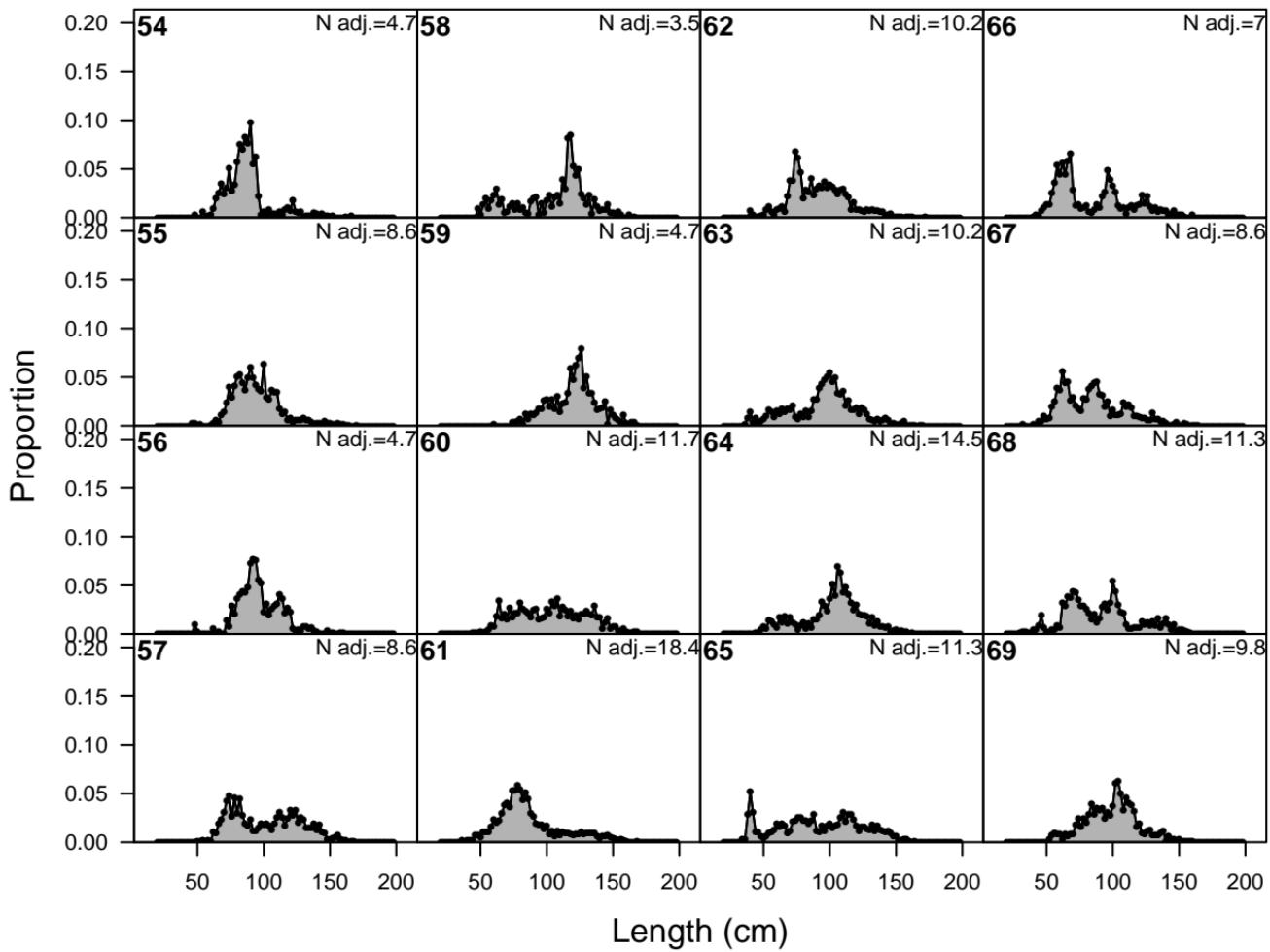


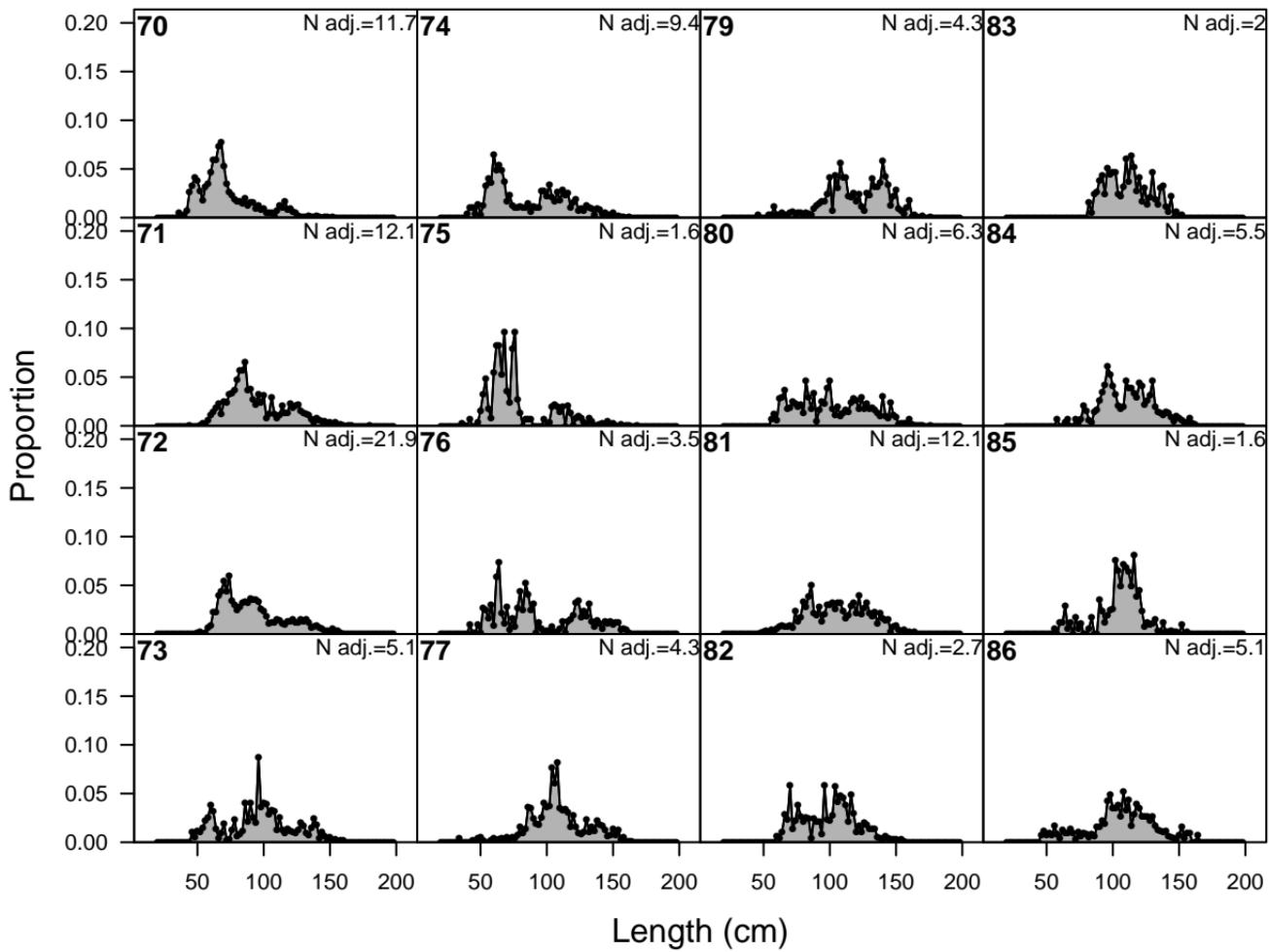


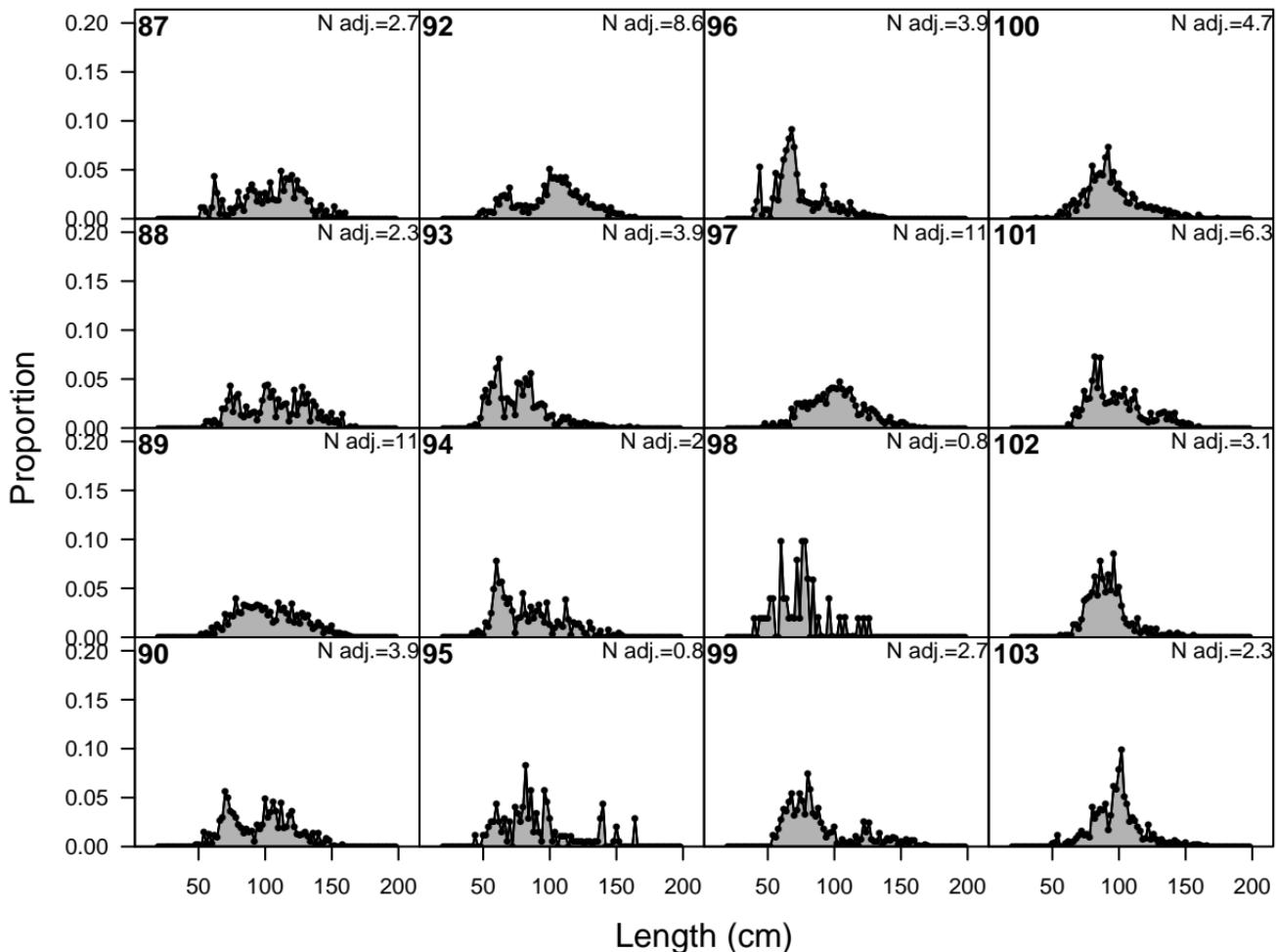
F18-DEL\_C (whole catch)

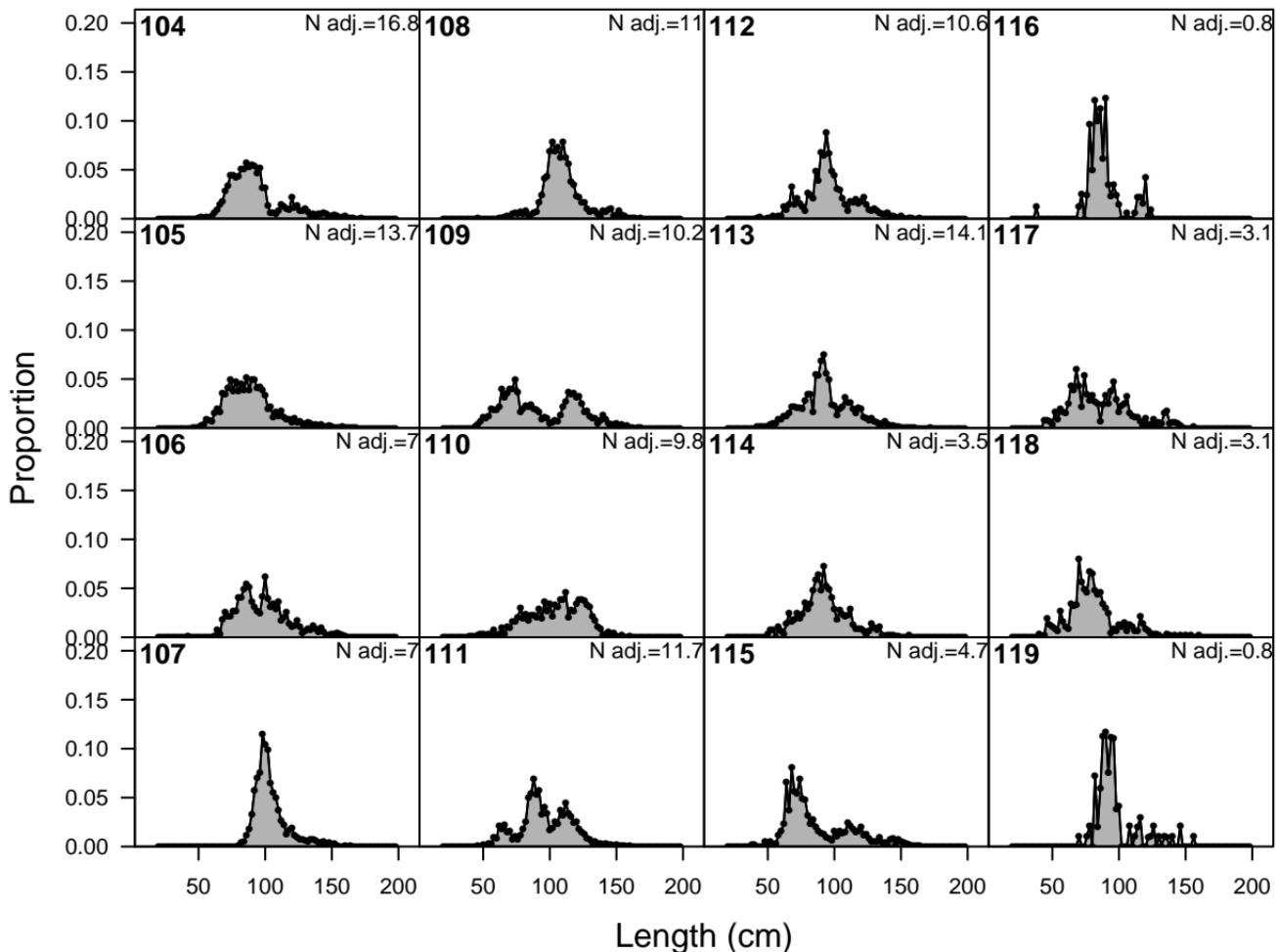


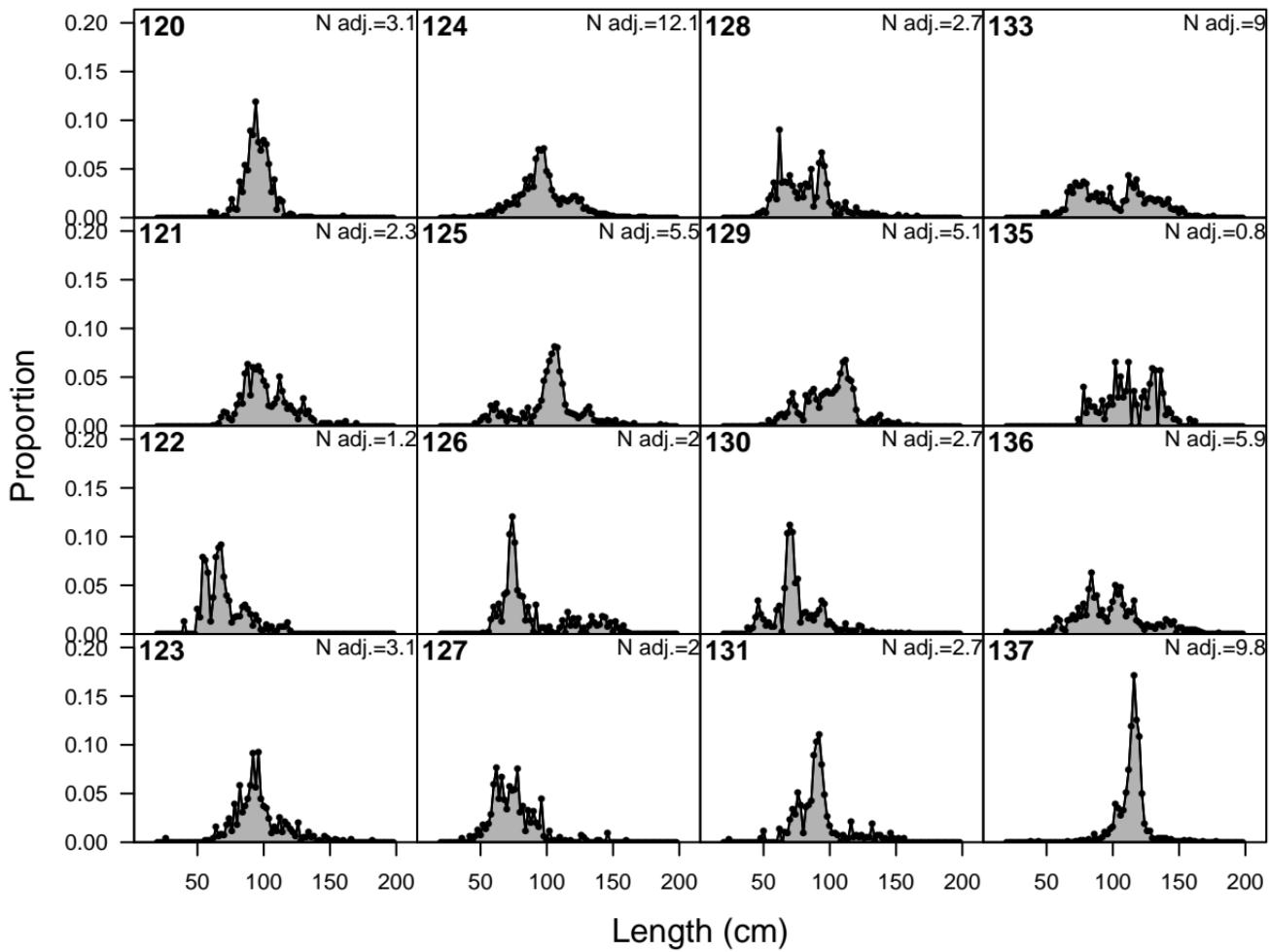


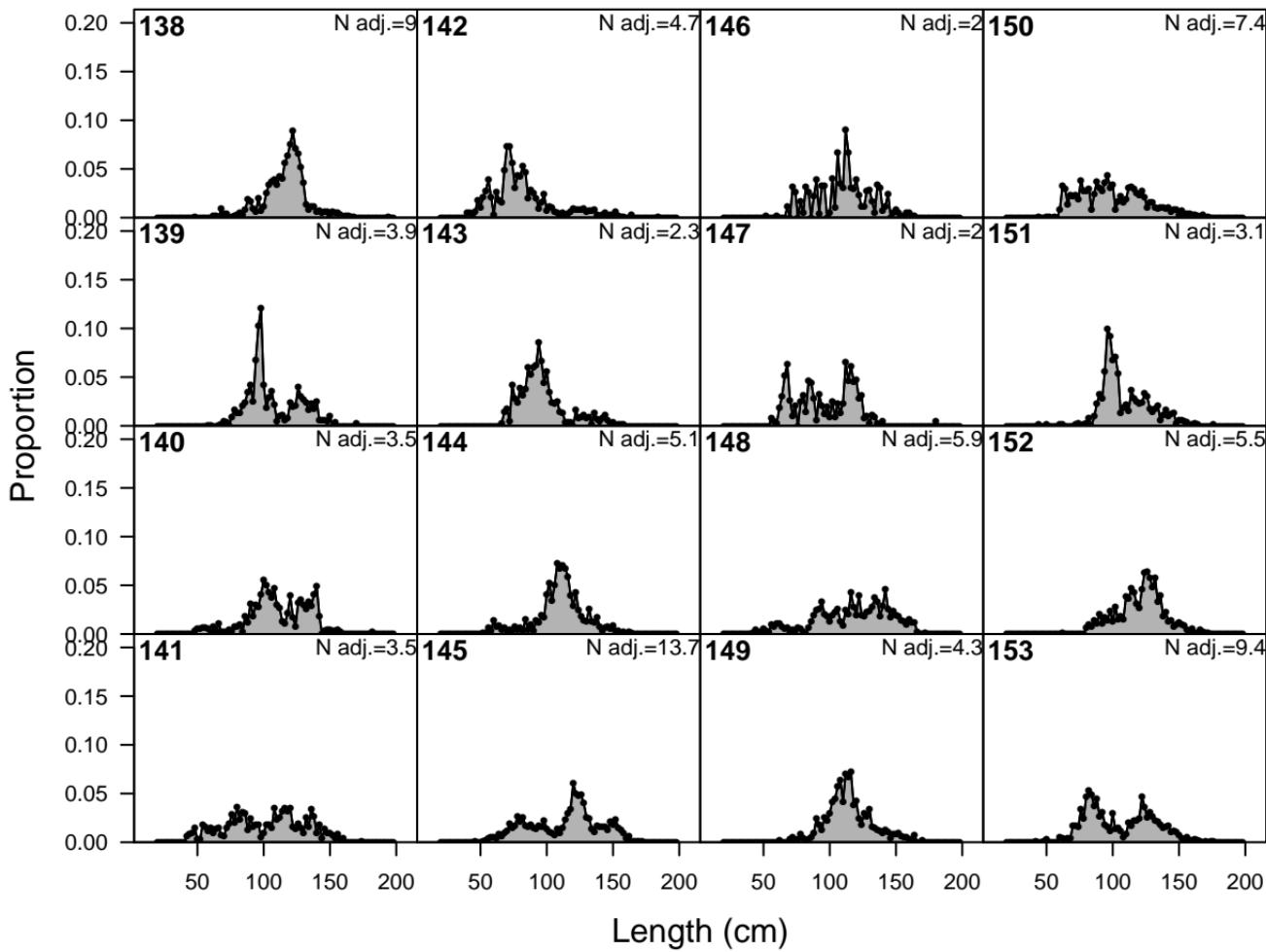


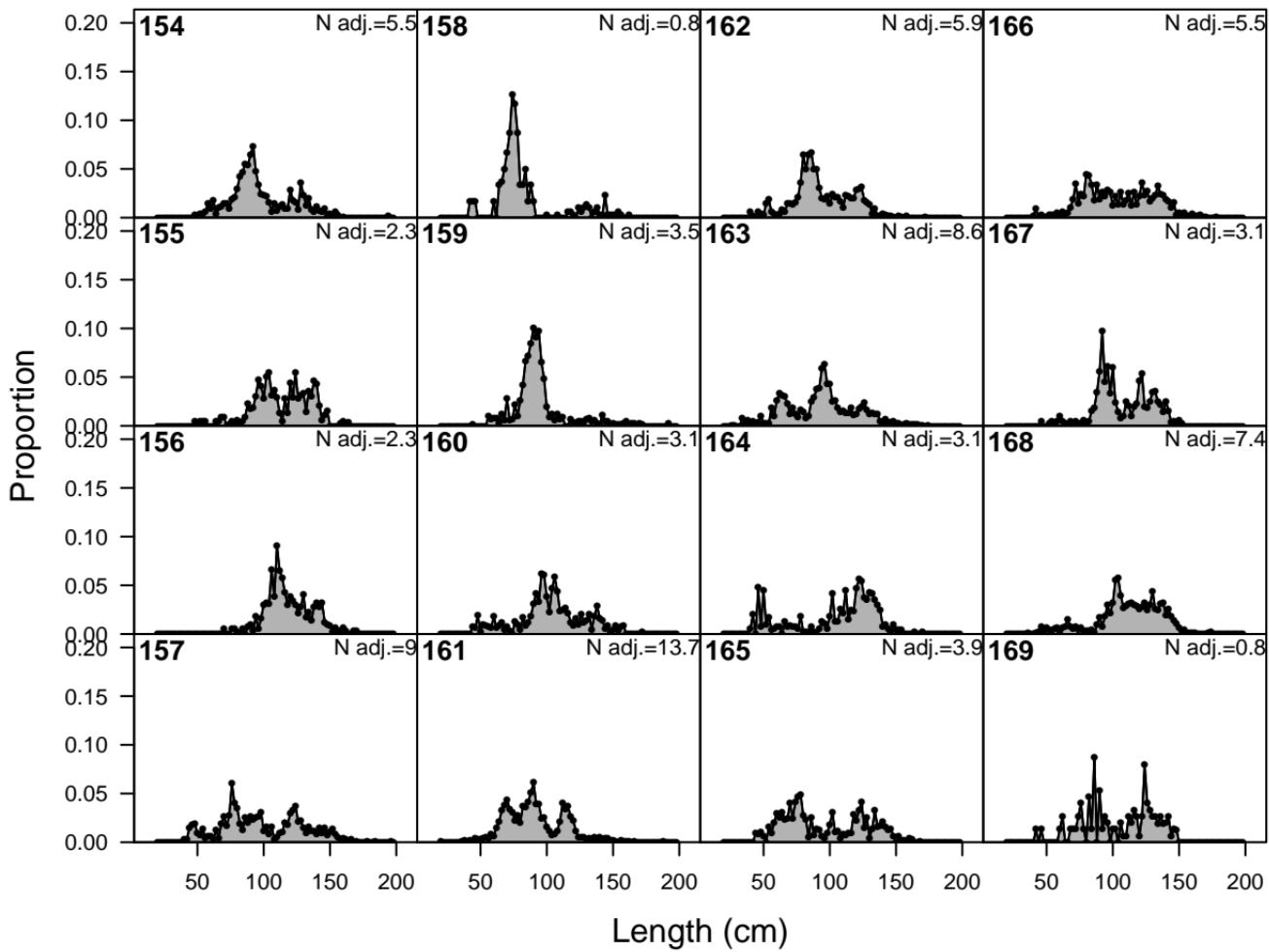


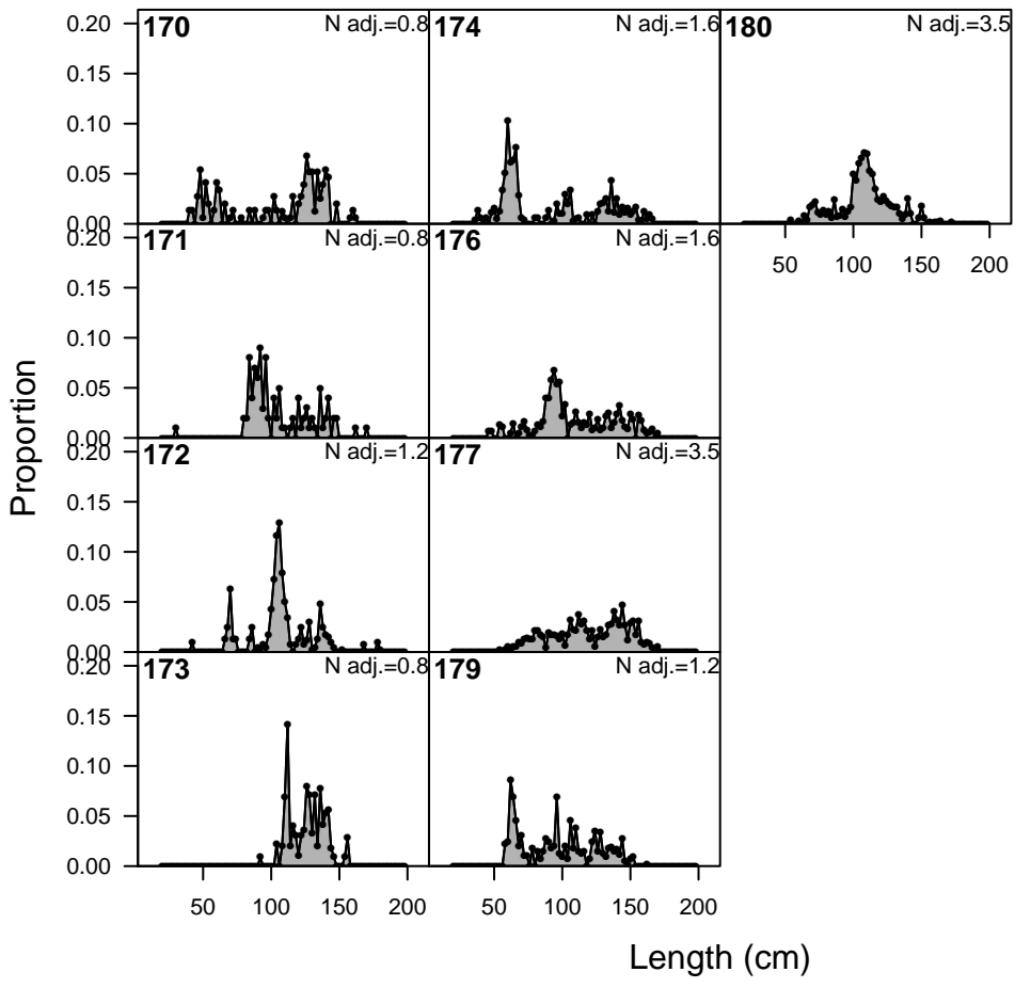


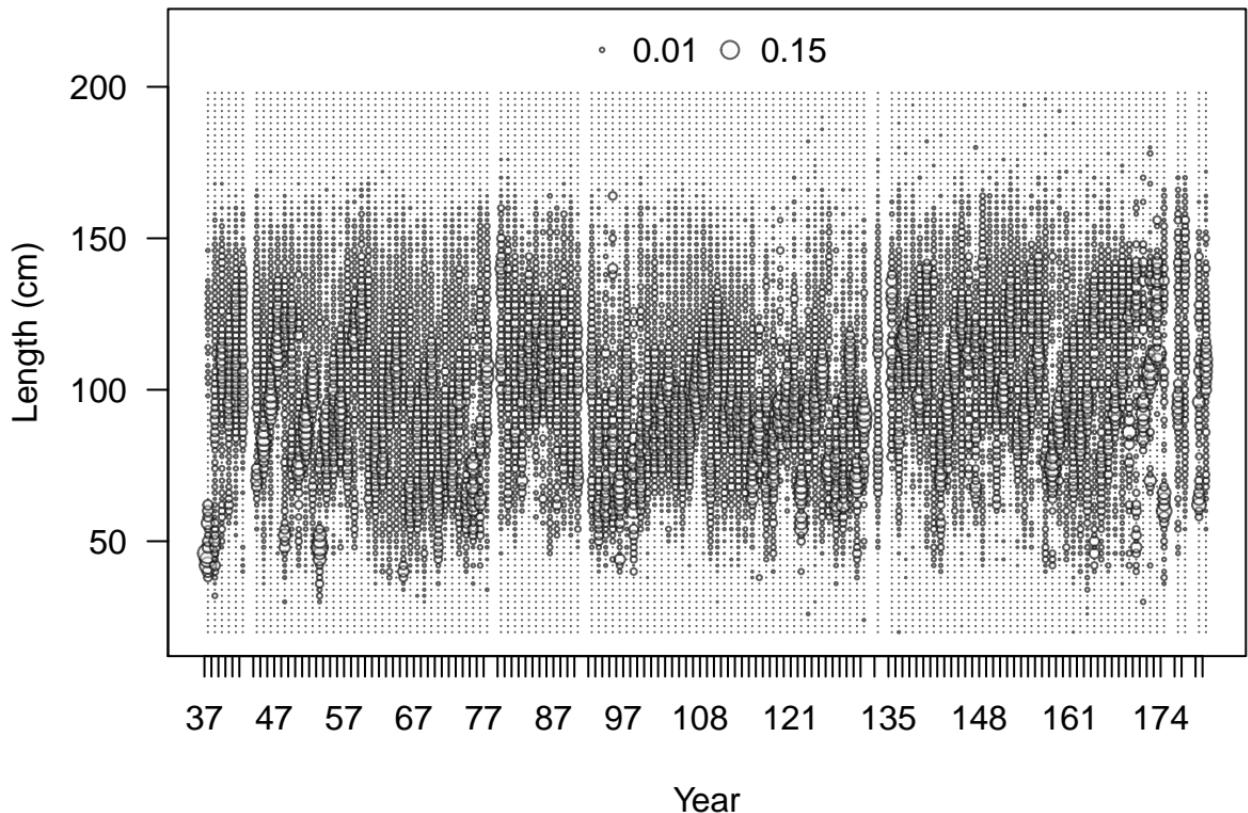




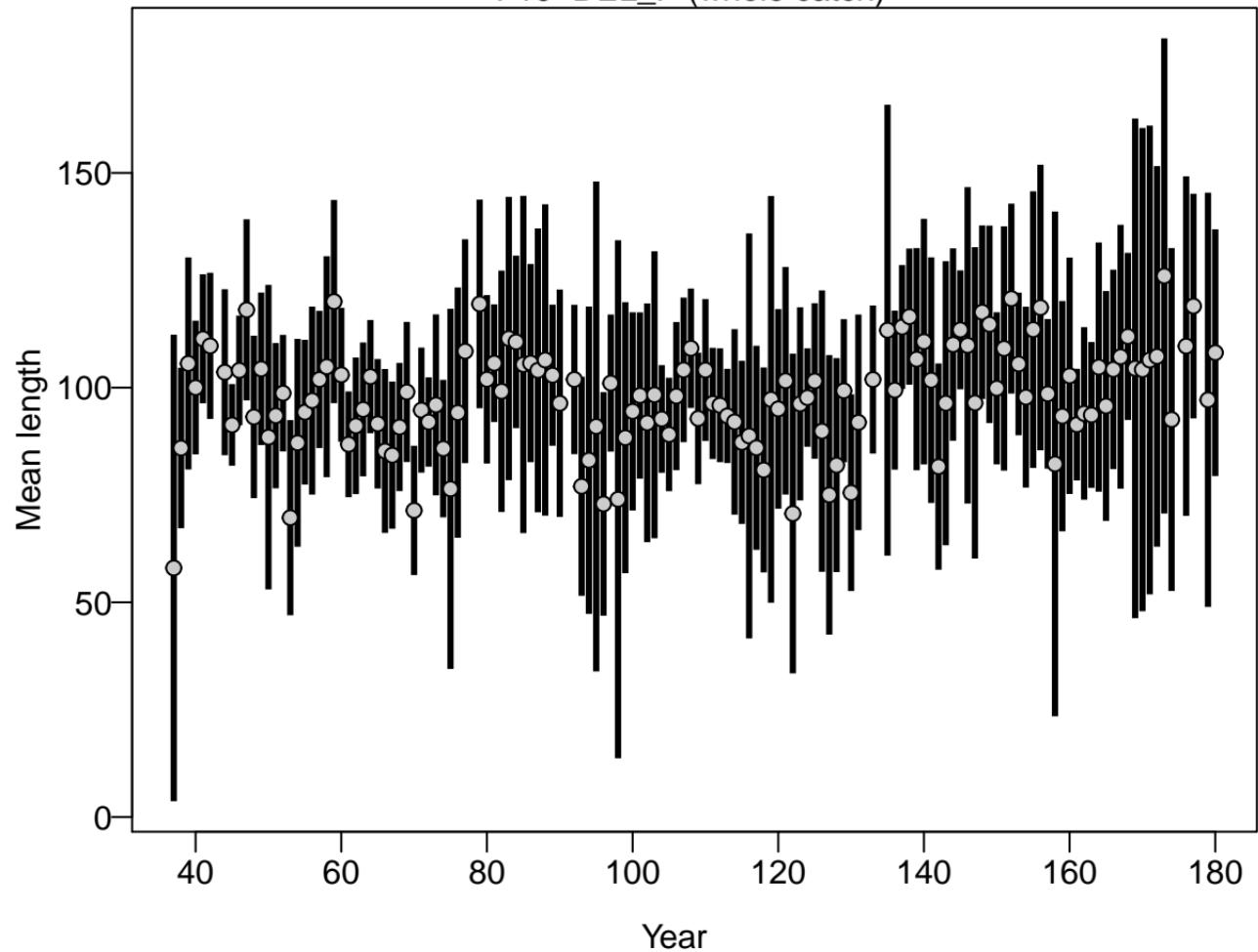




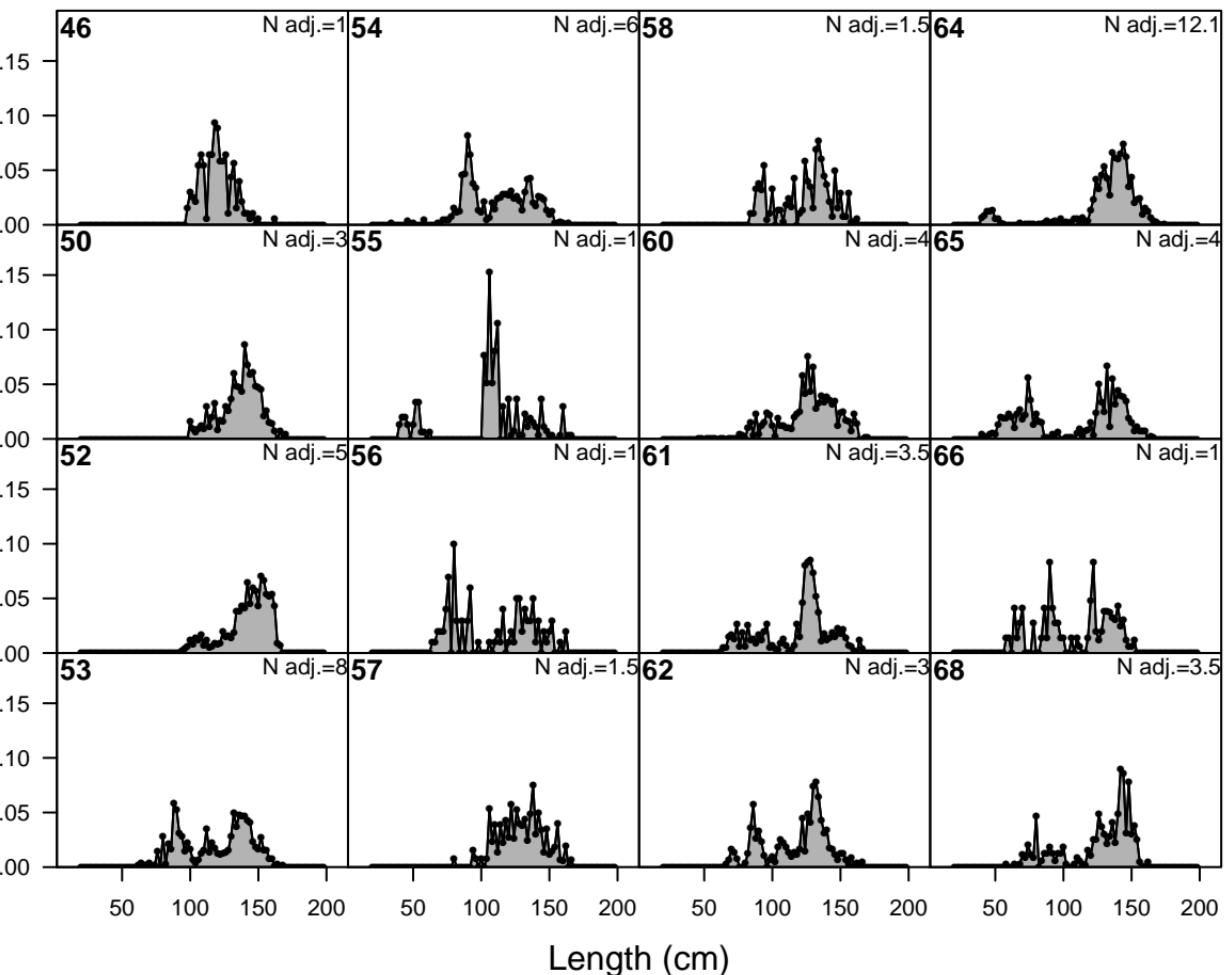




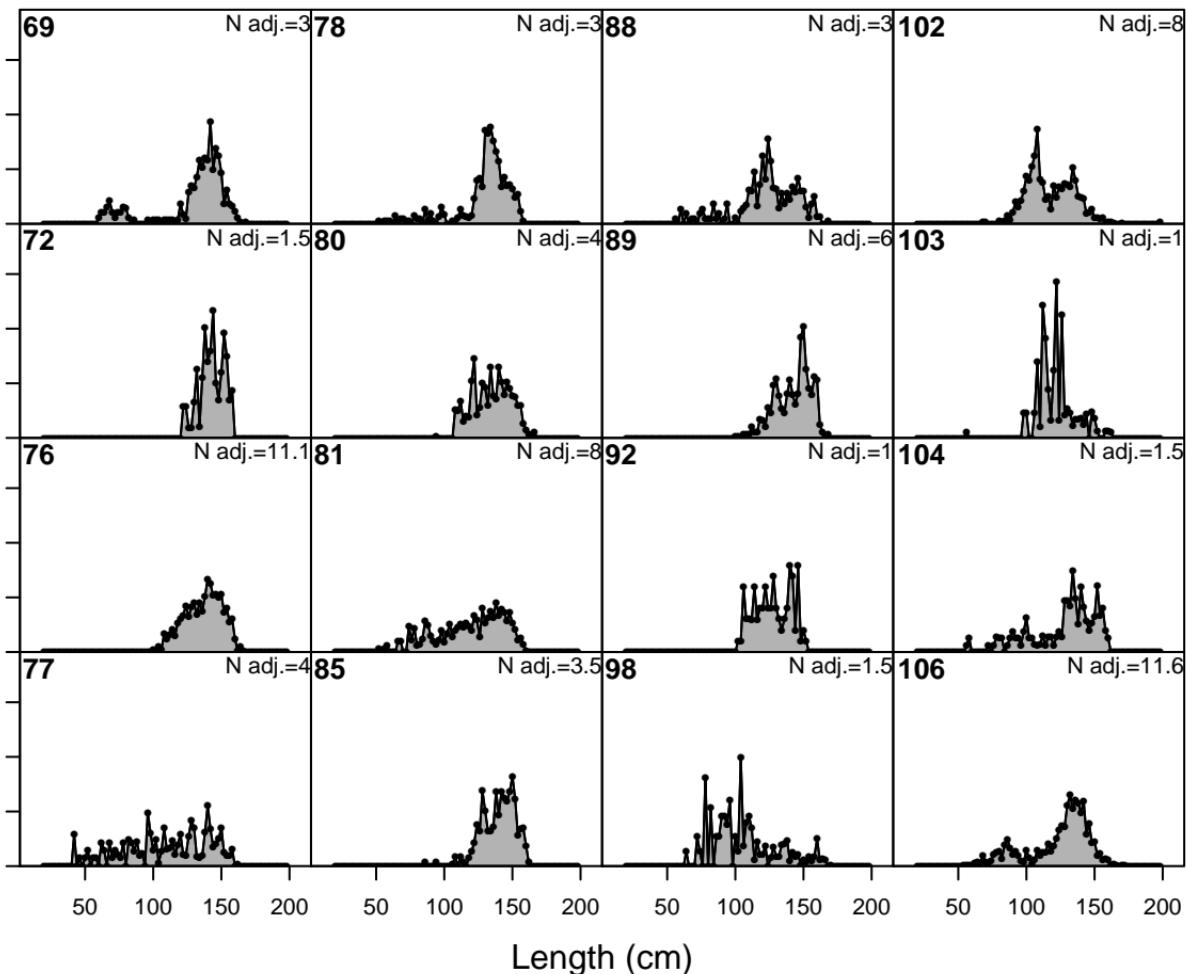
# F19-DEL\_P (whole catch)



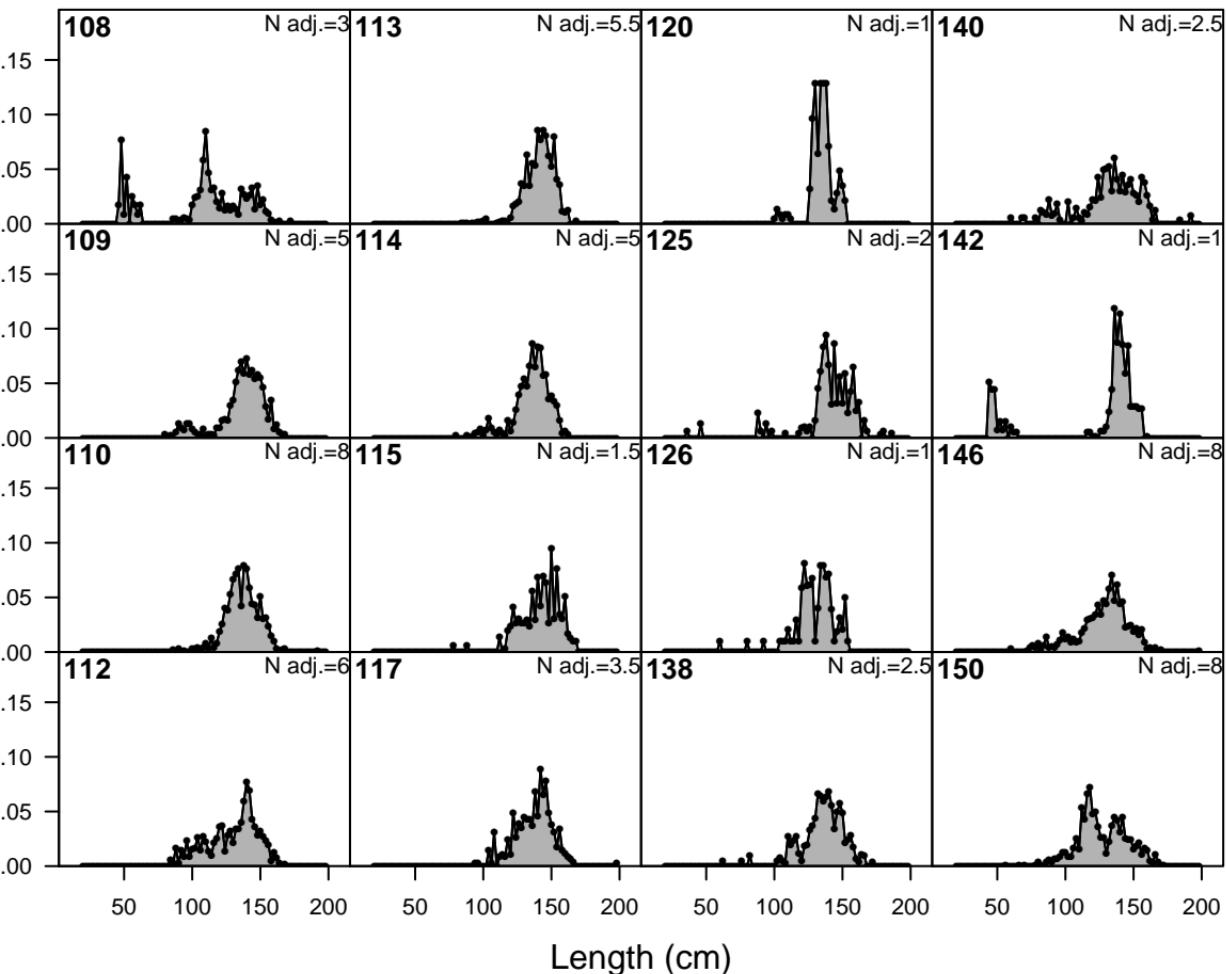
Proportion



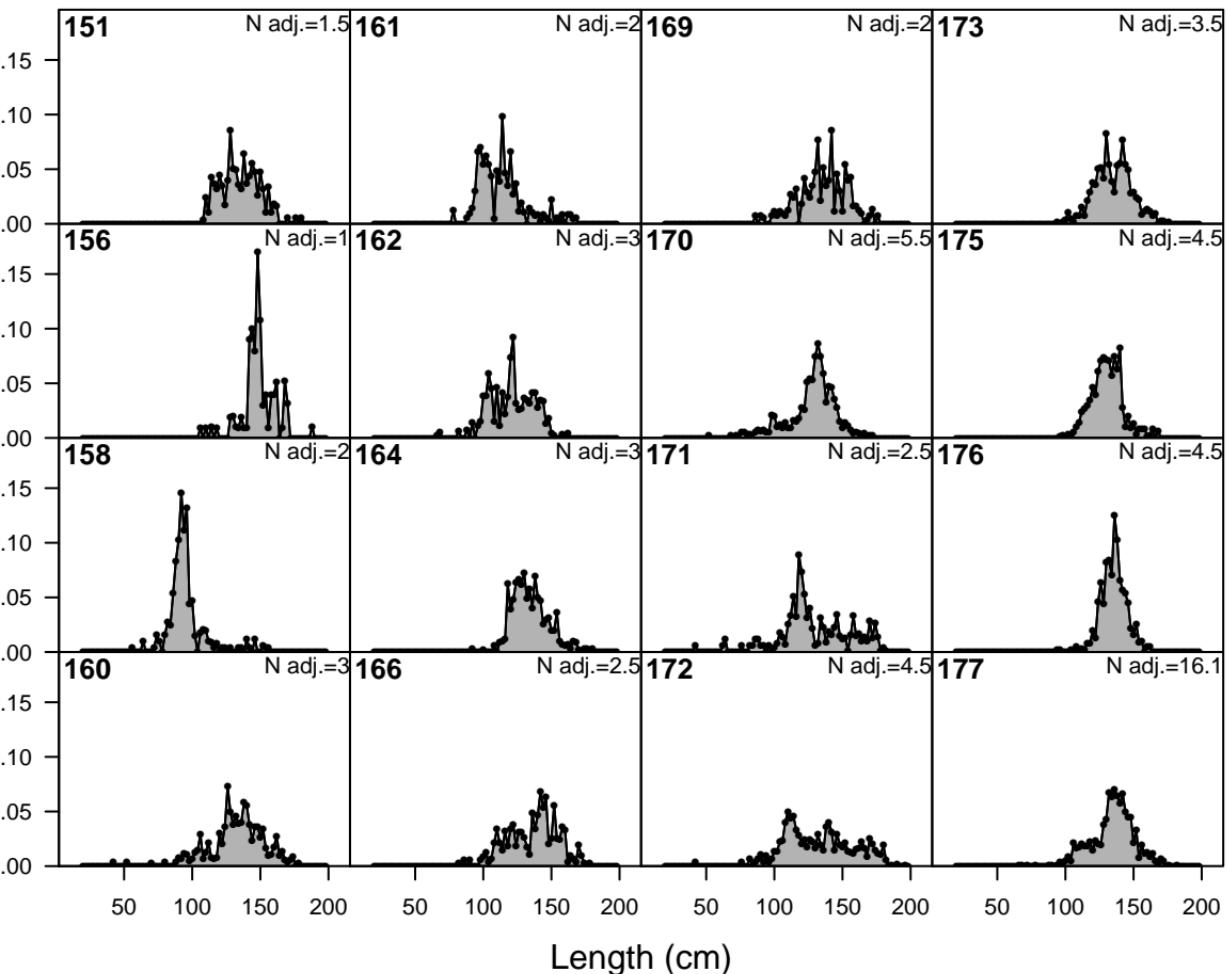
Proportion



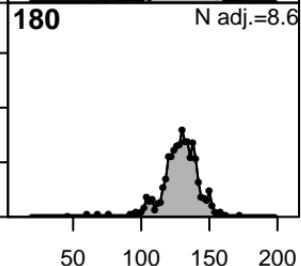
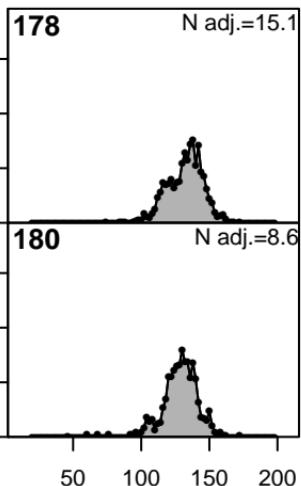
Proportion



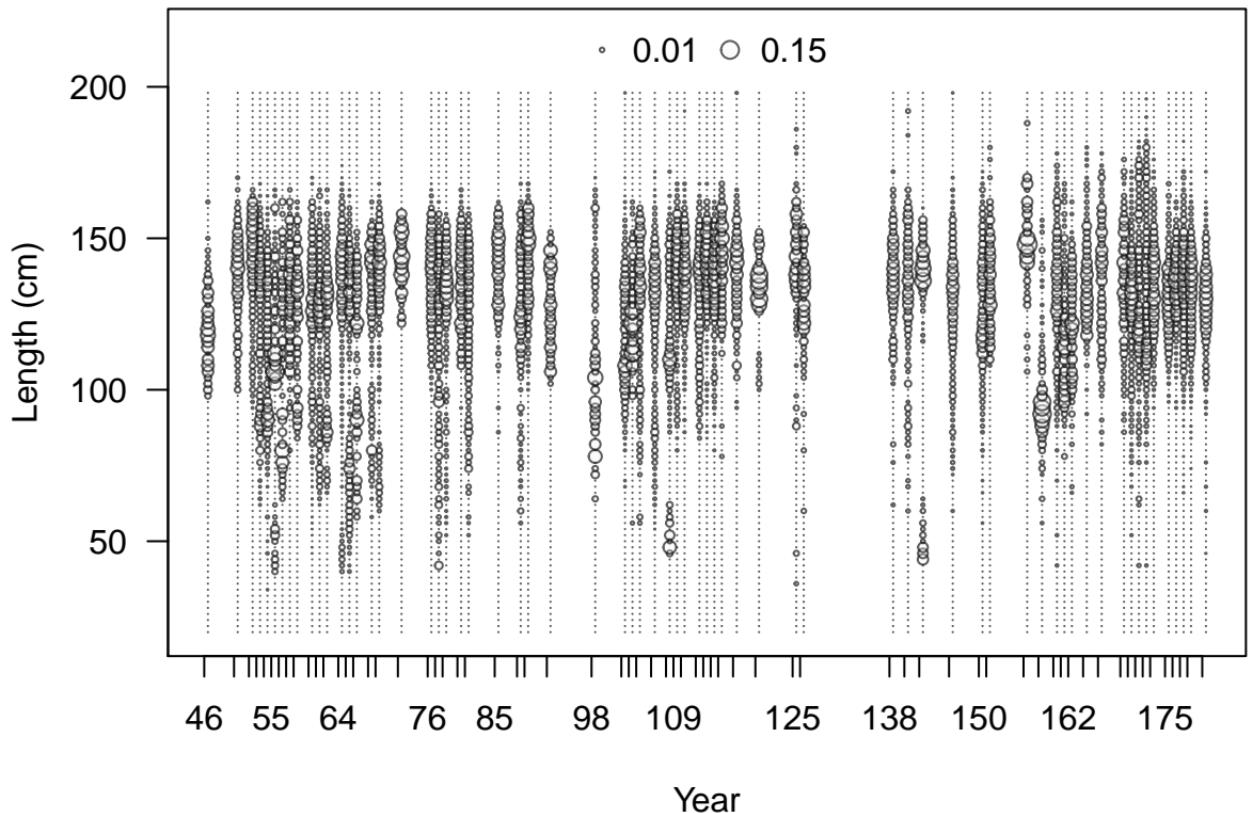
Proportion



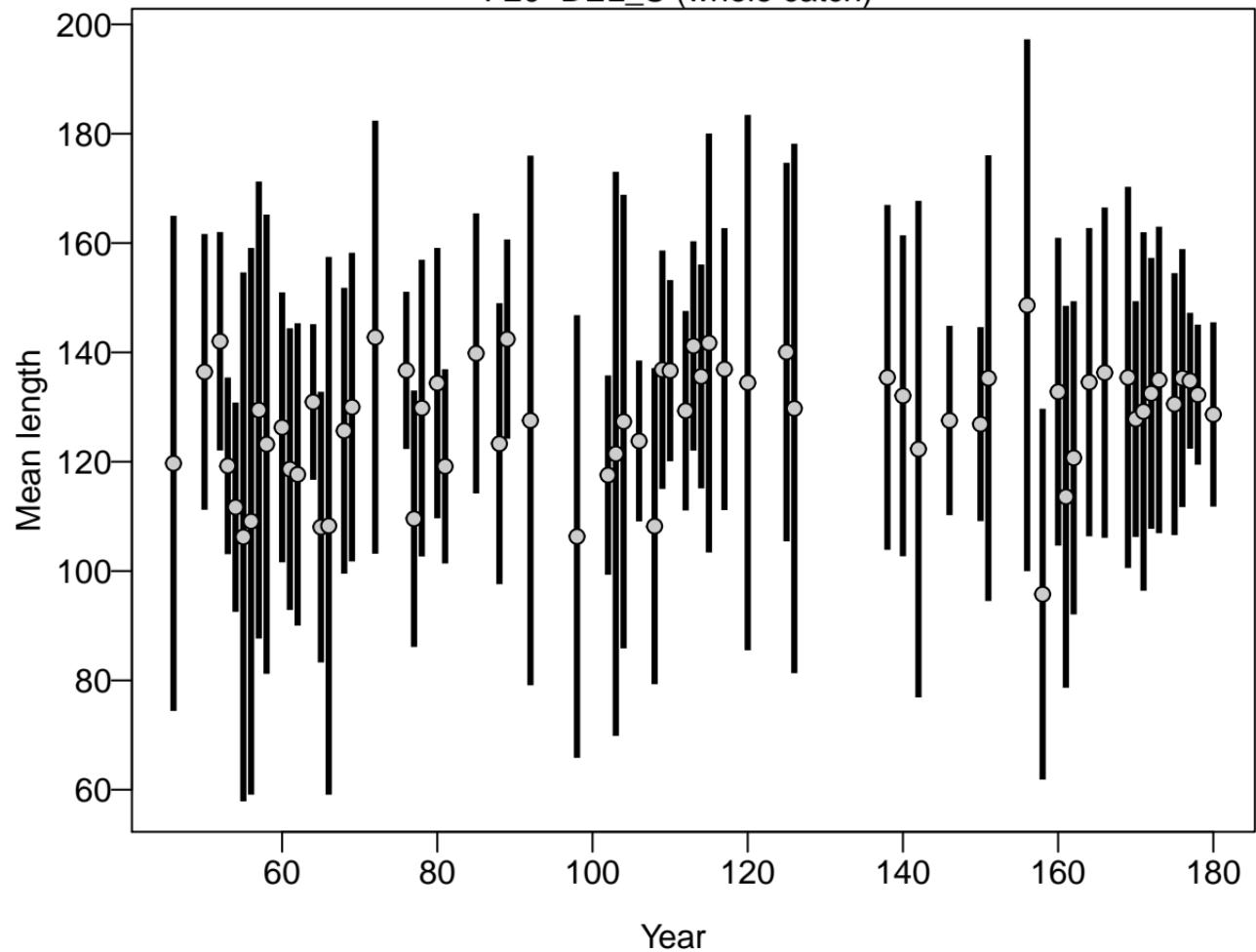
Proportion

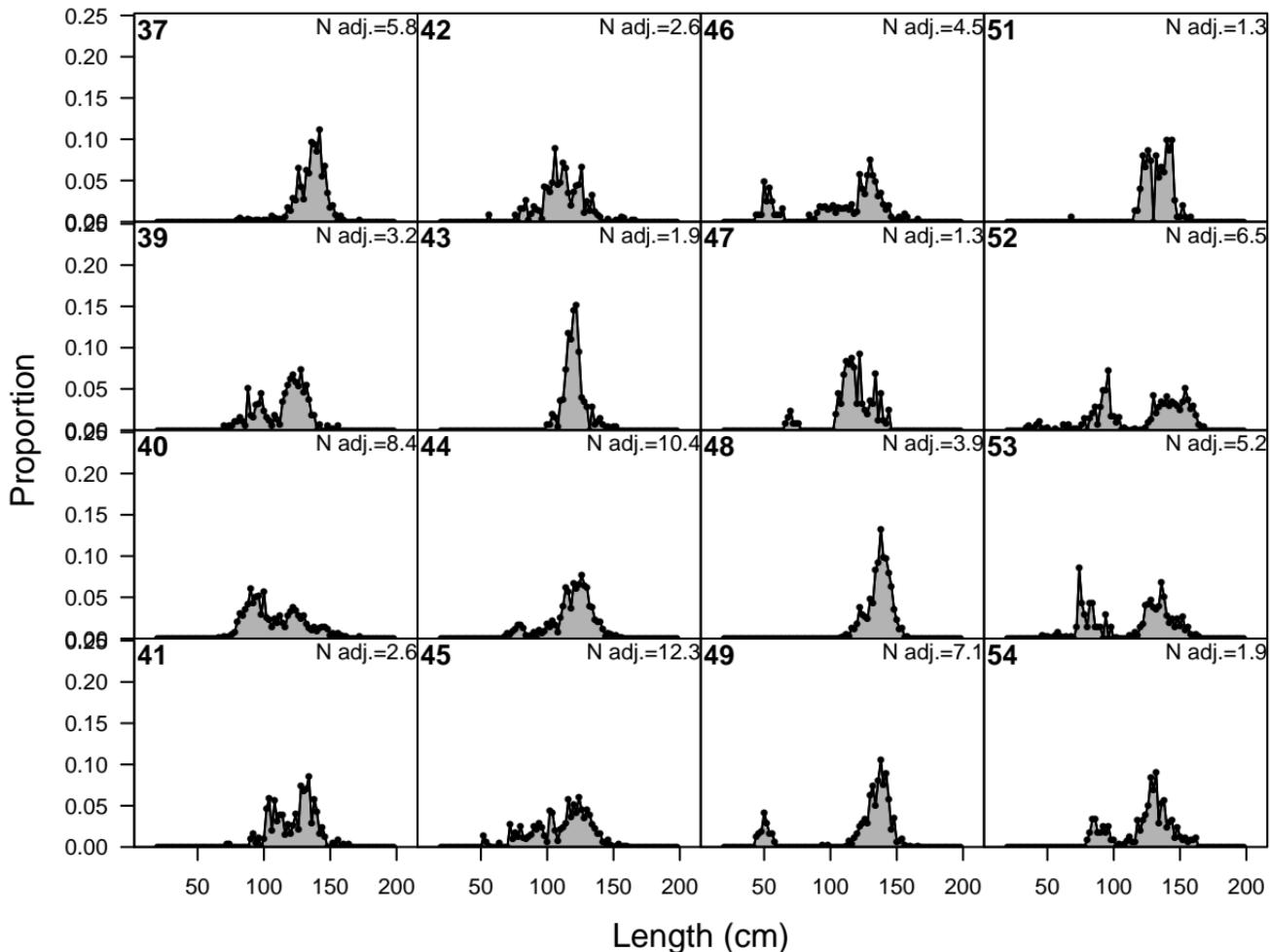


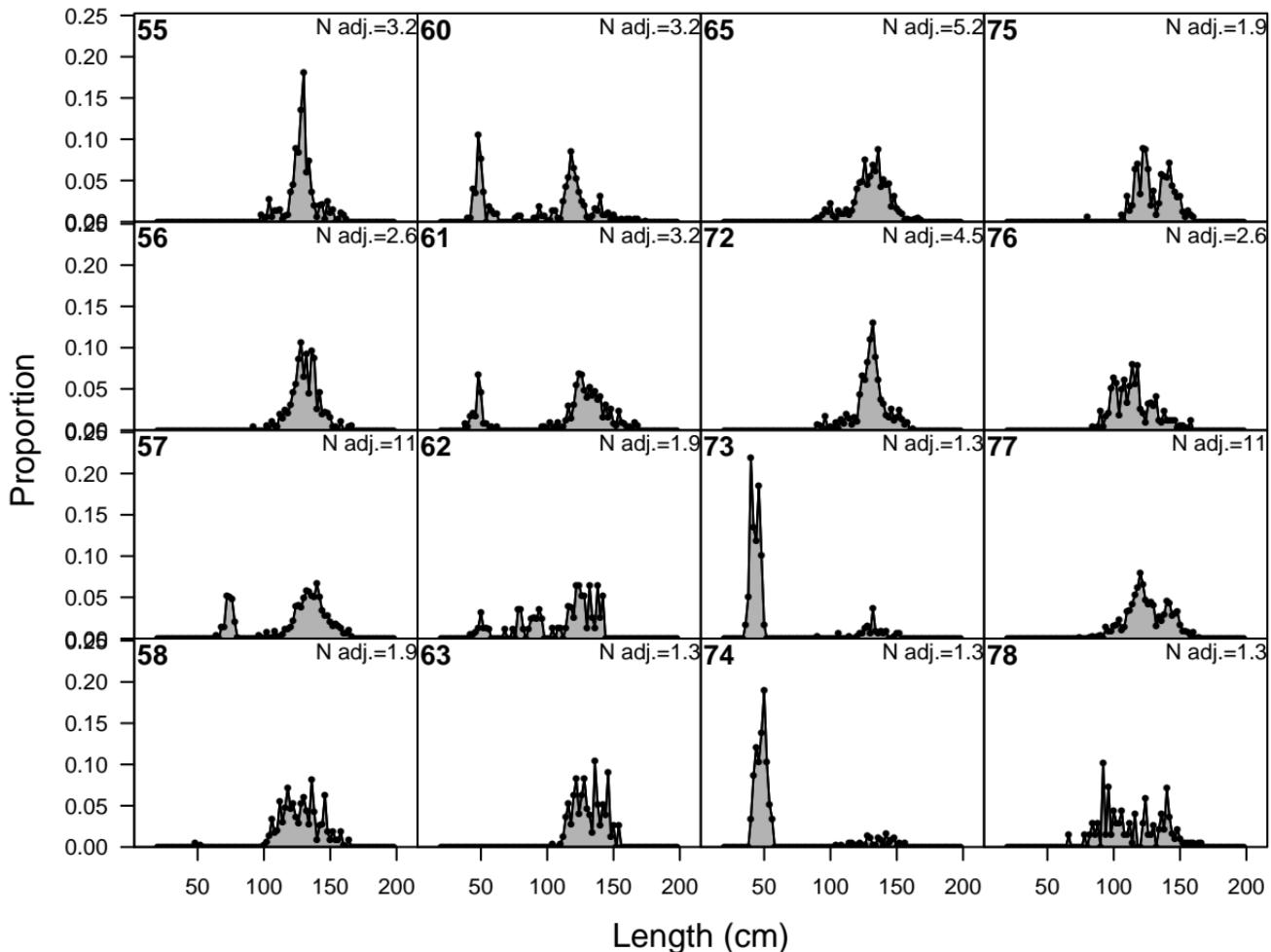
Length (cm)

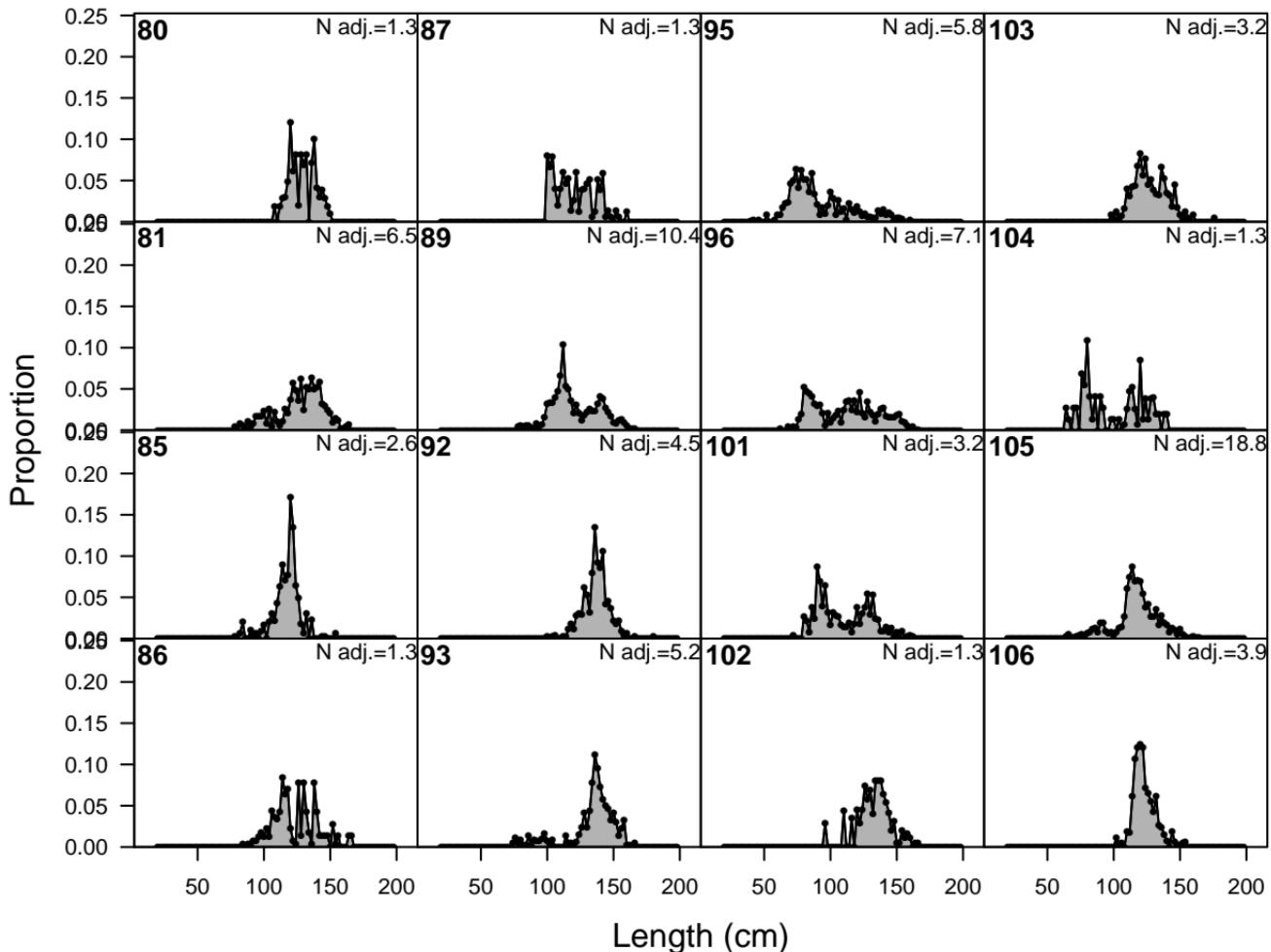


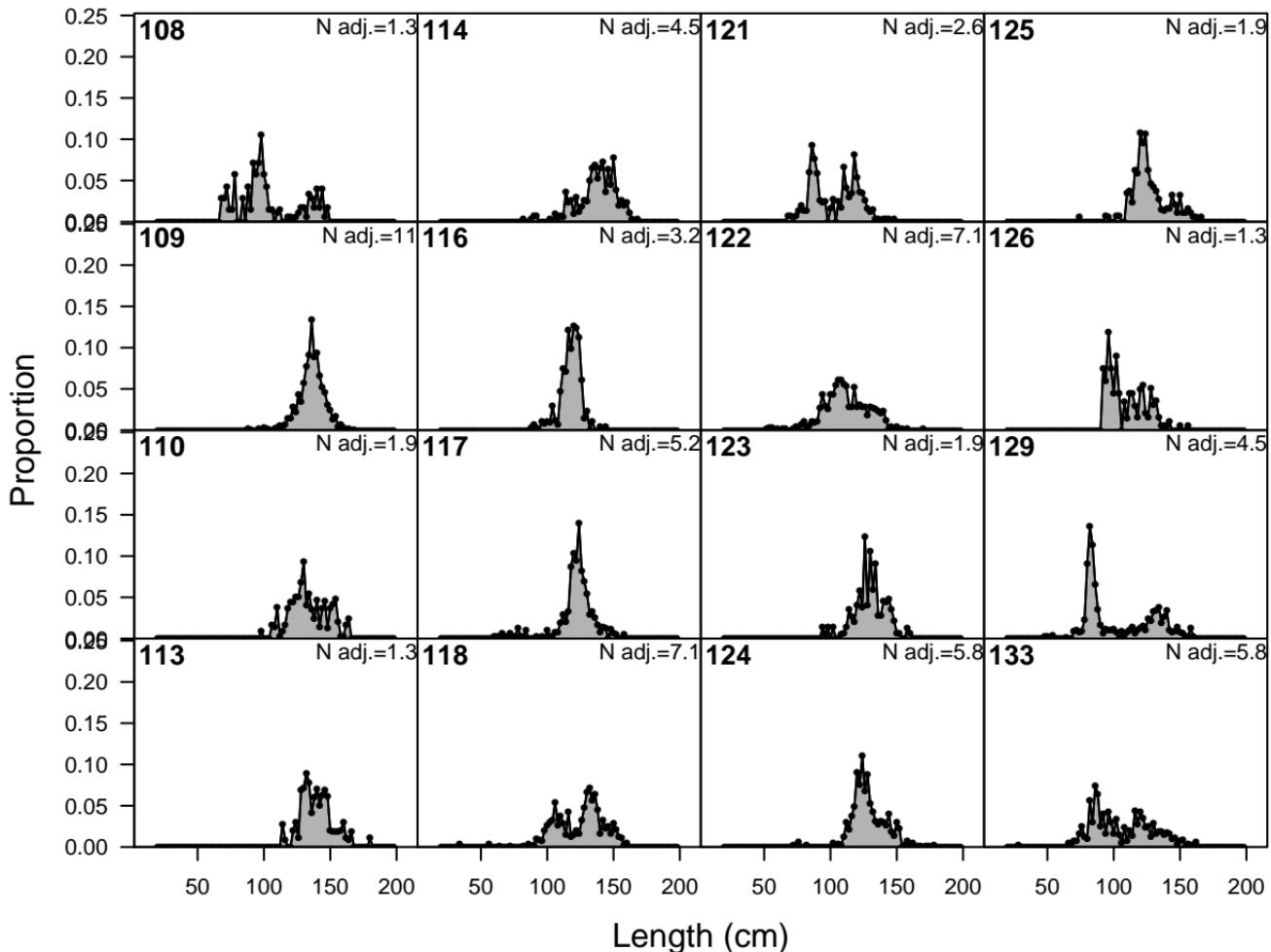
# F20-DEL\_S (whole catch)

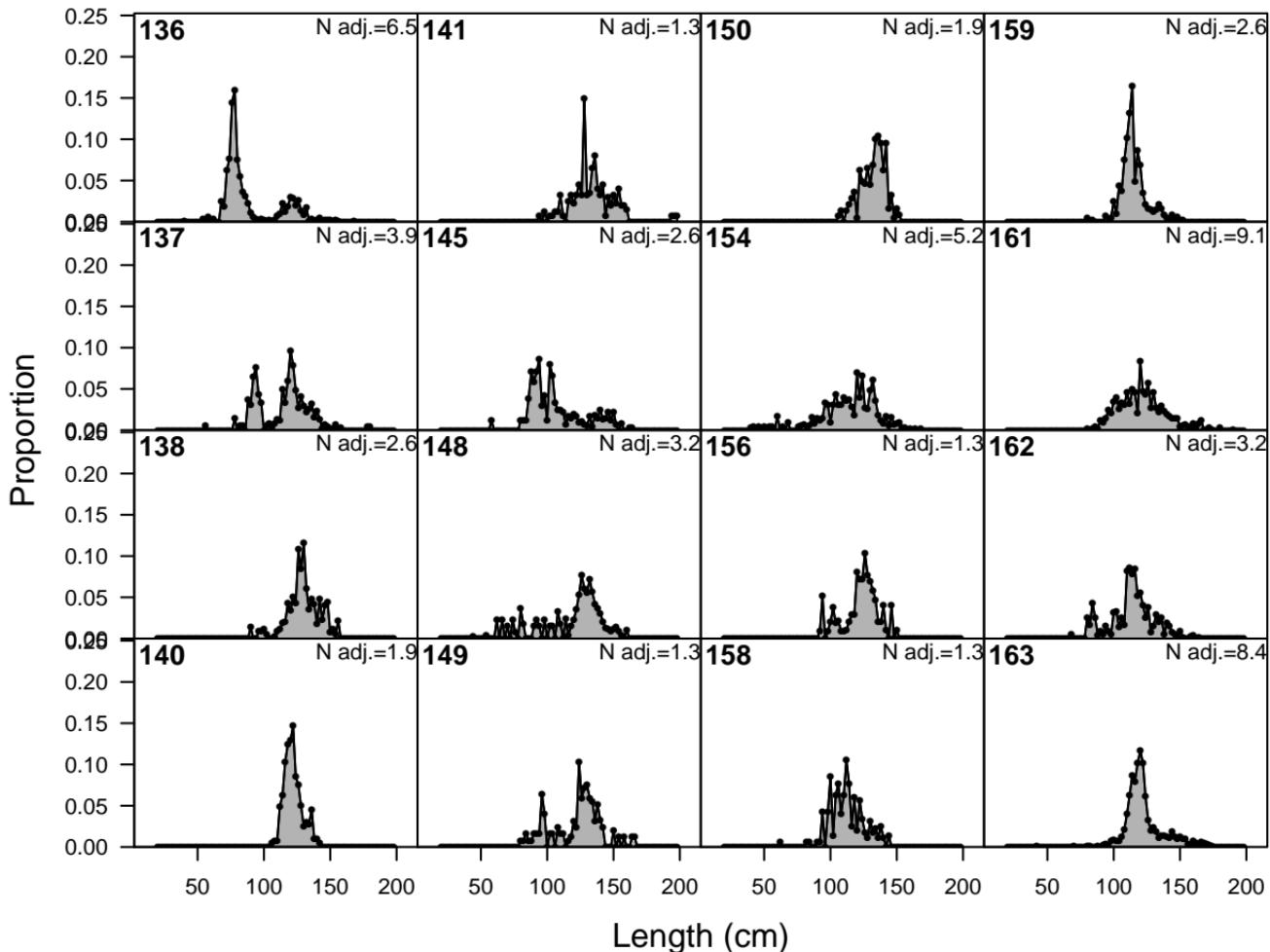


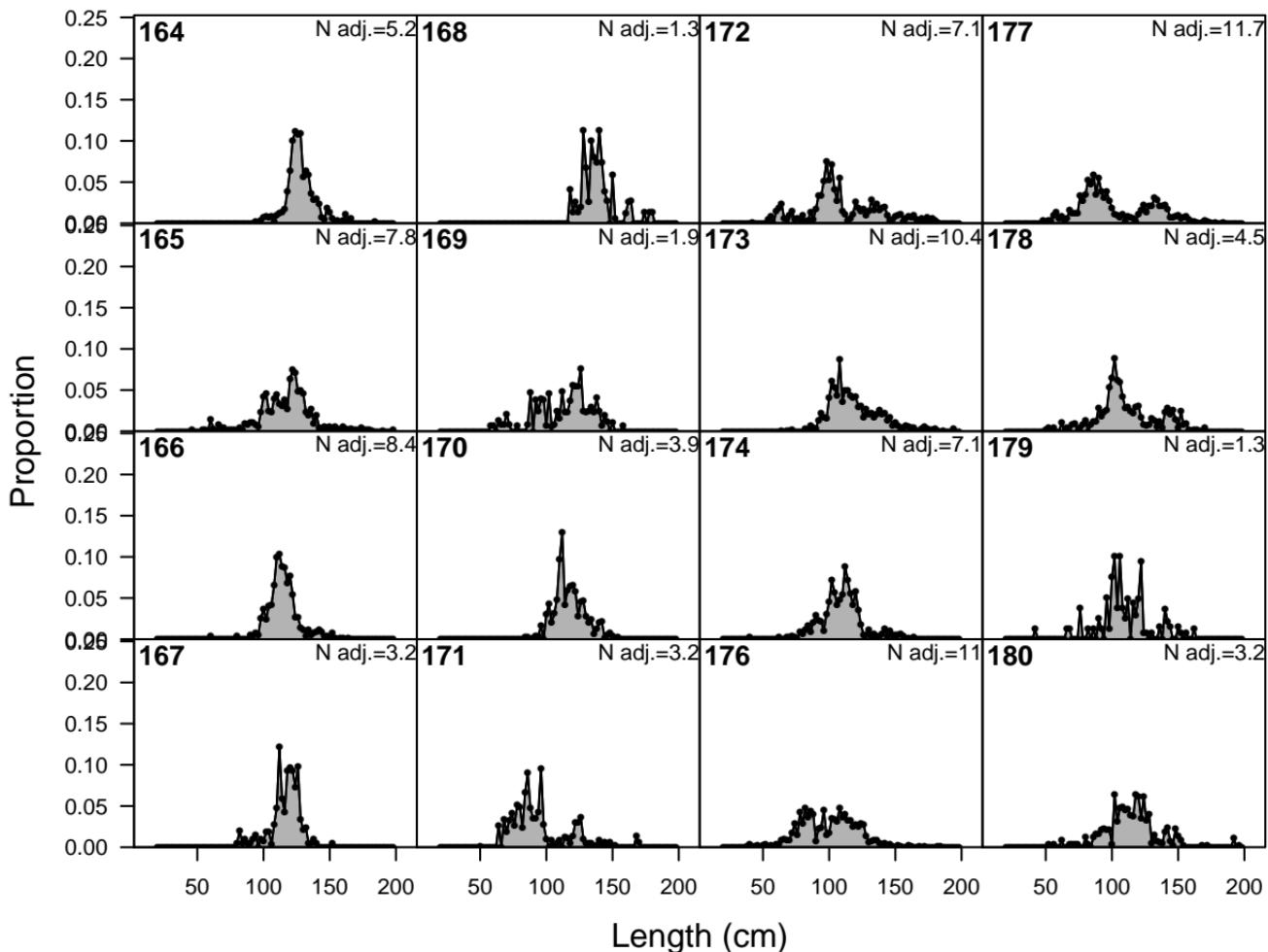


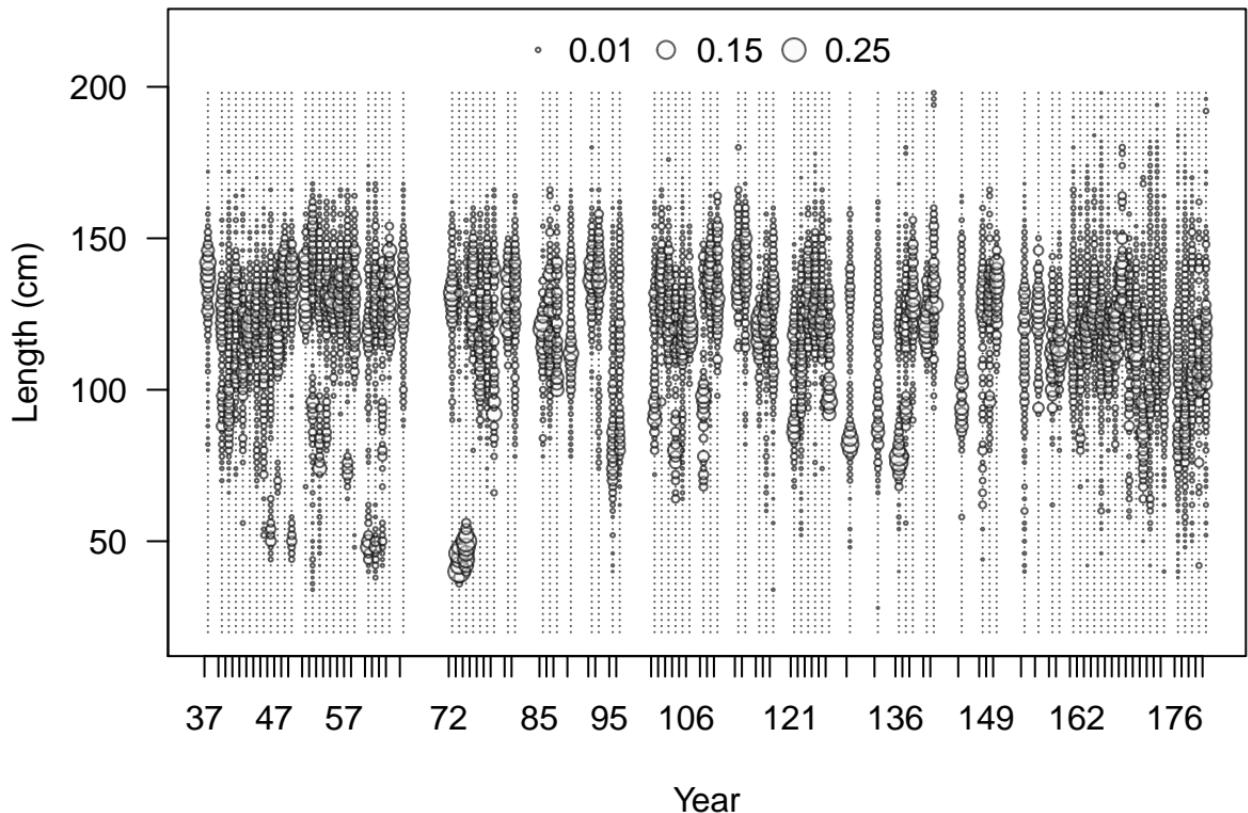




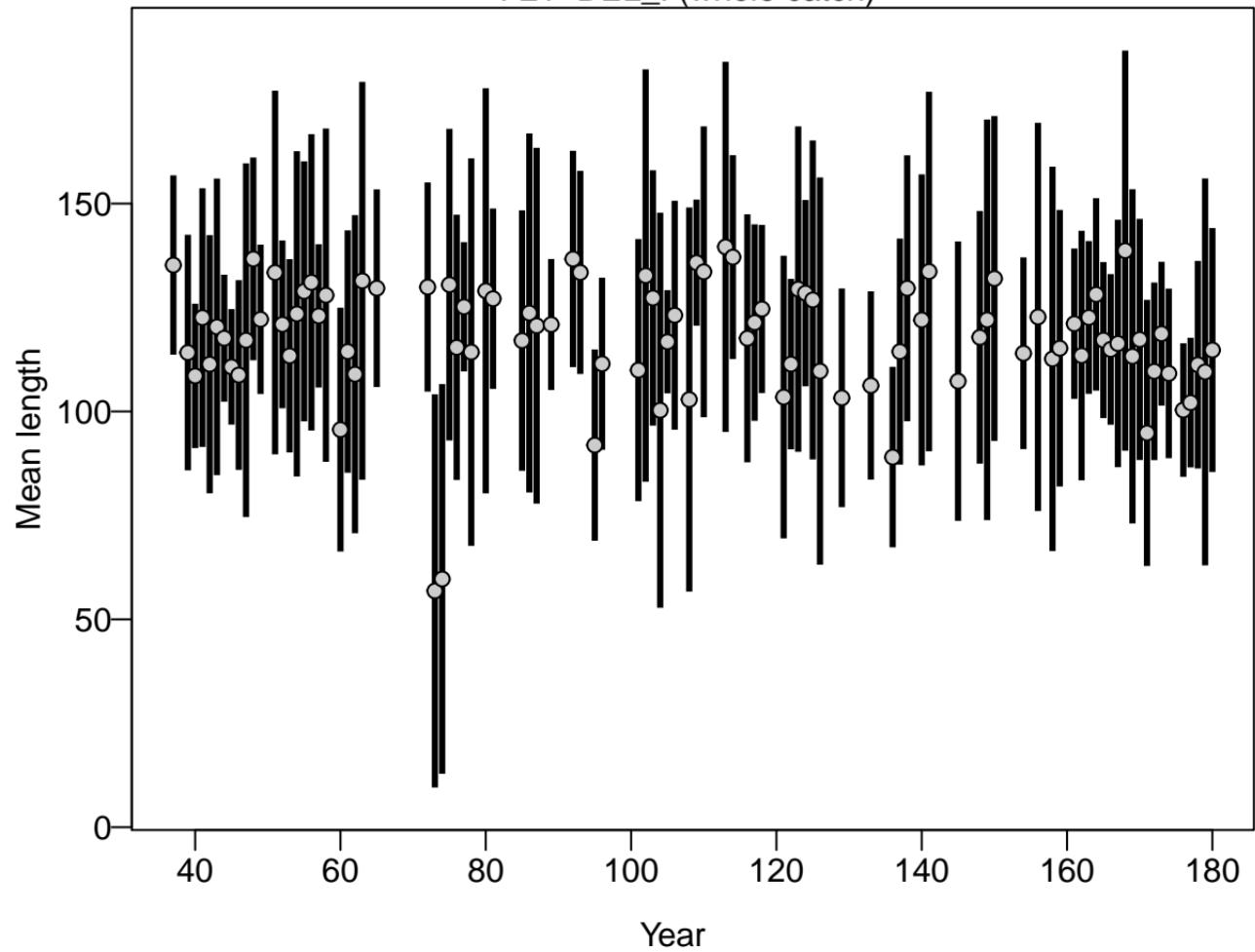


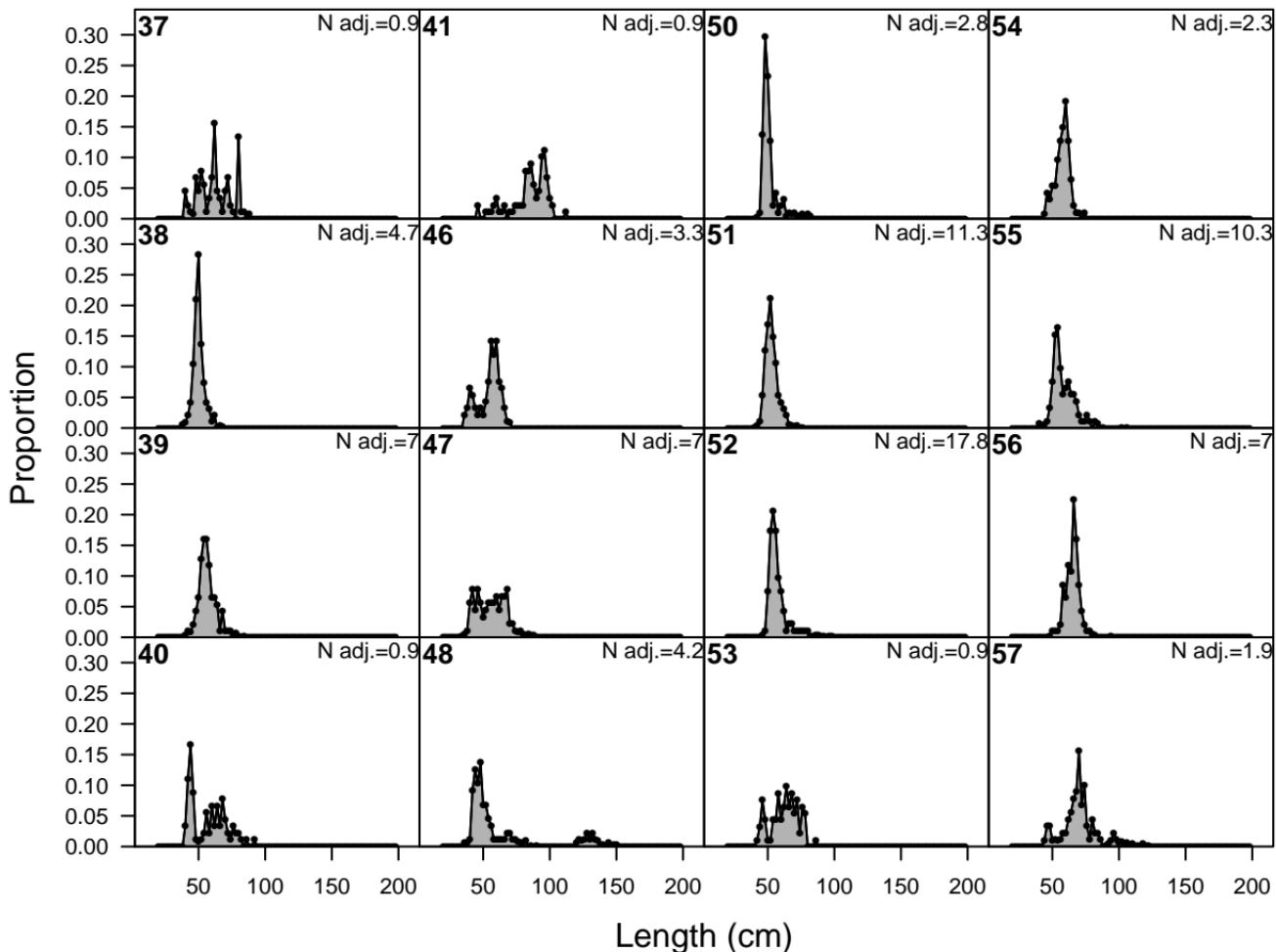




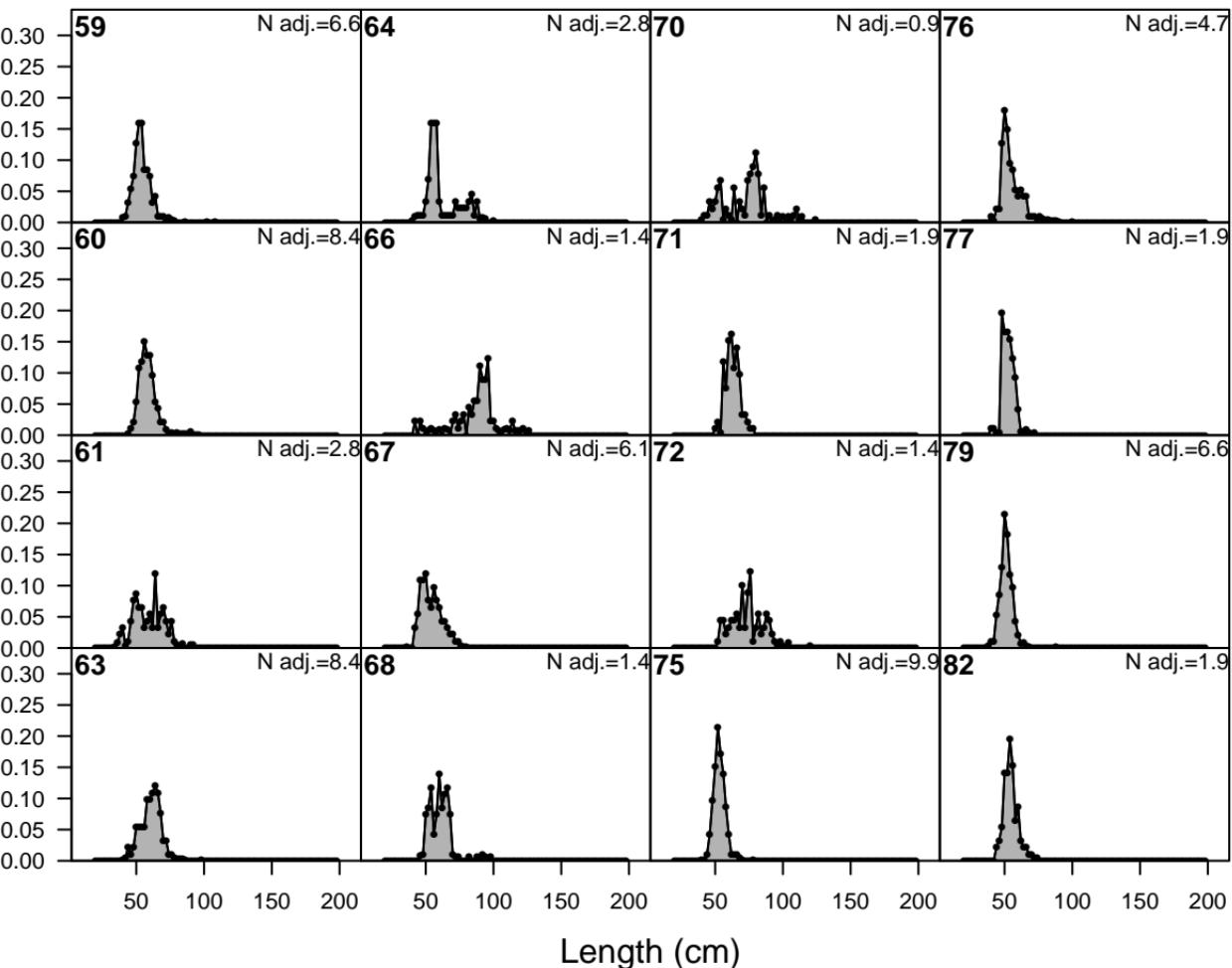


# F21-DEL\_I (whole catch)

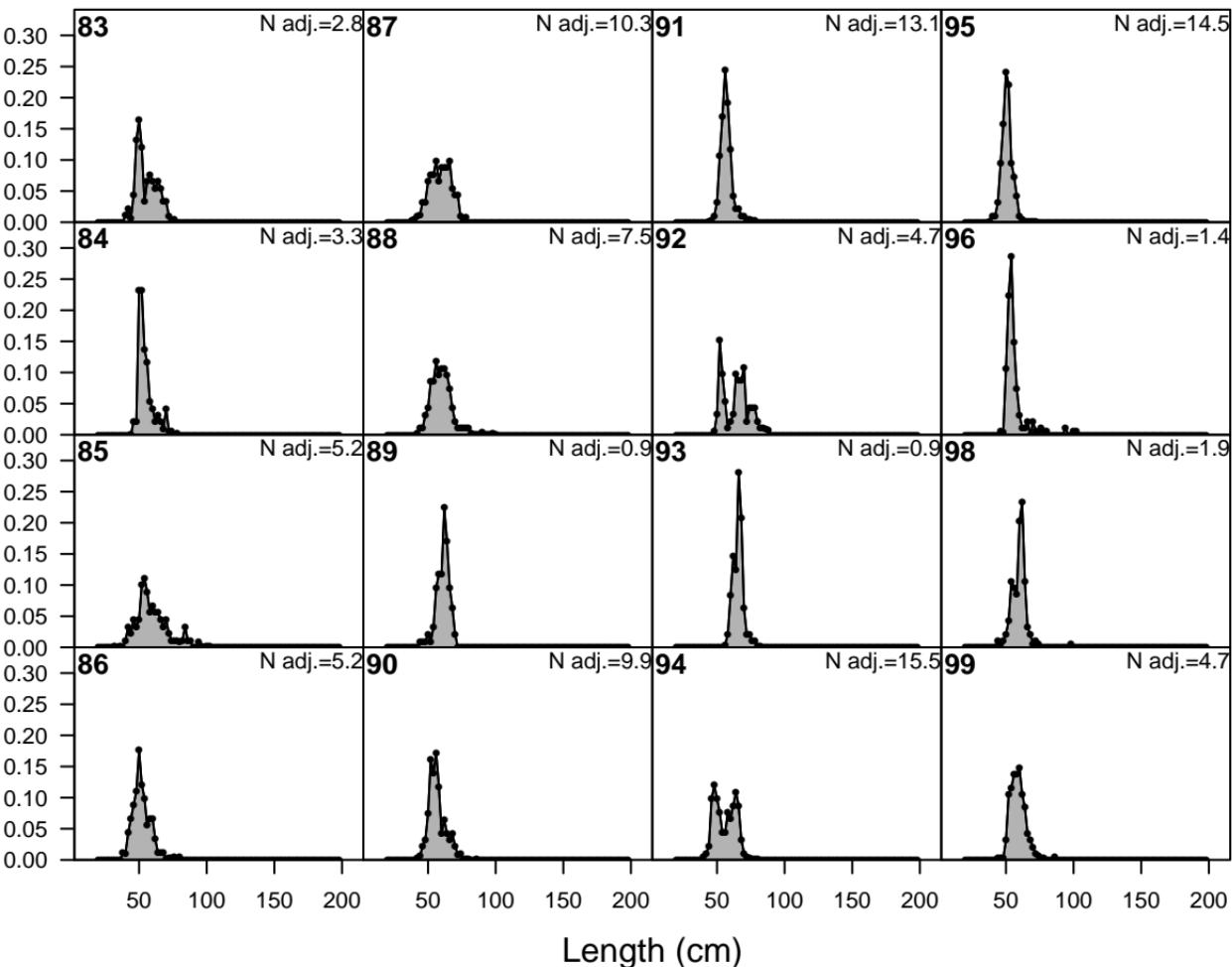




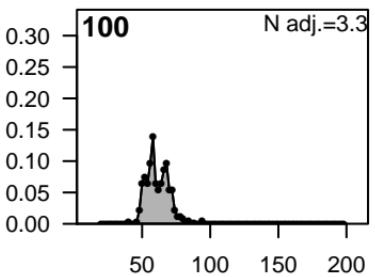
Proportion

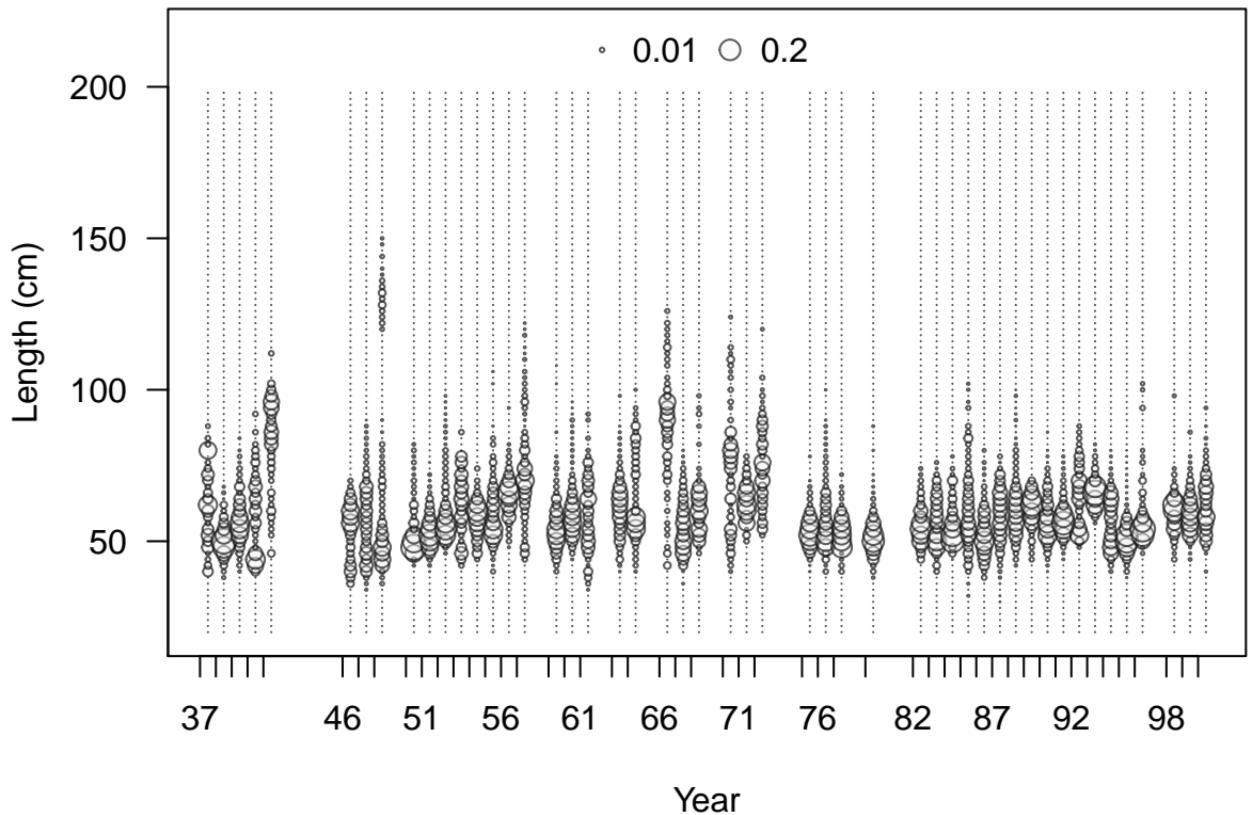


Proportion

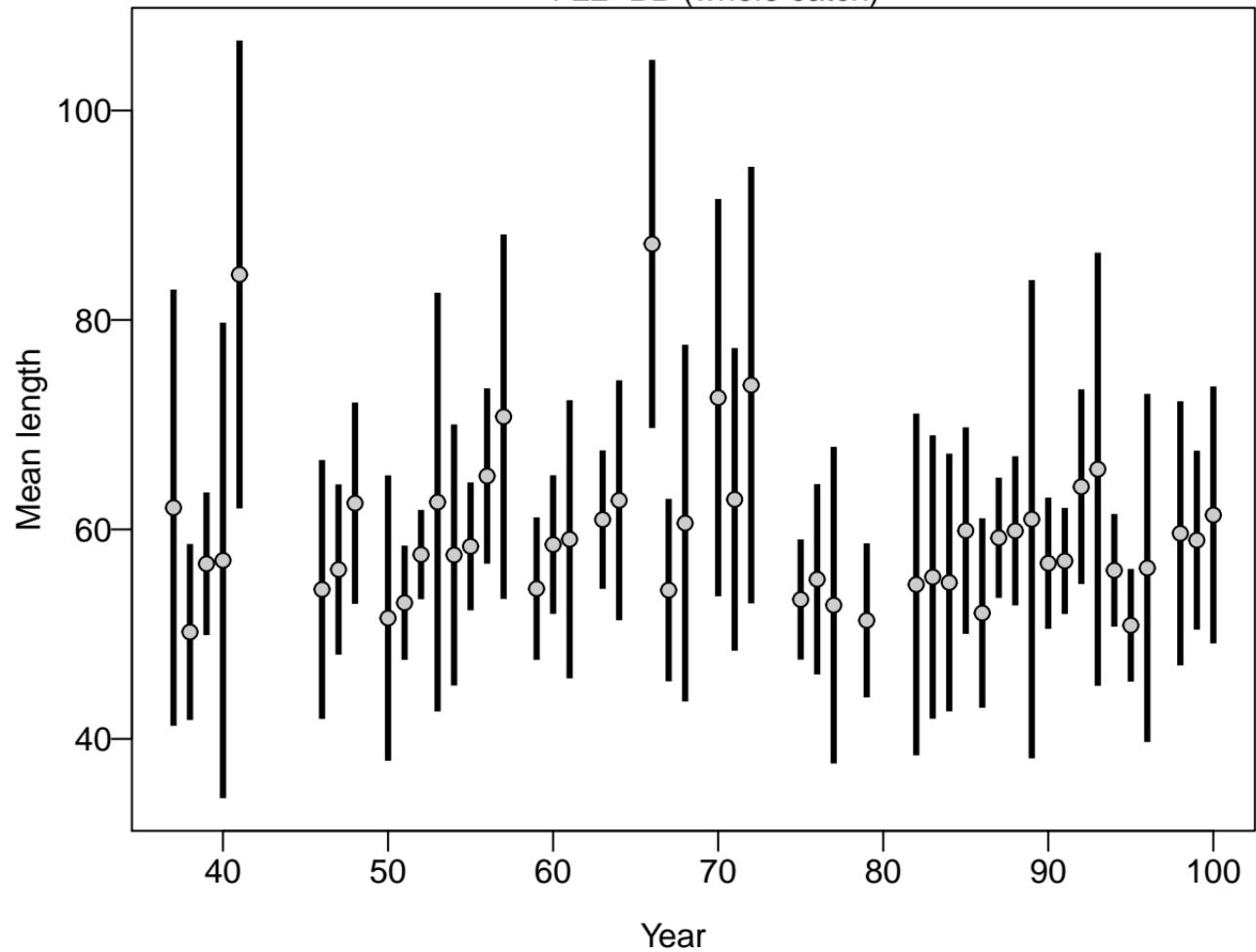


Proportion

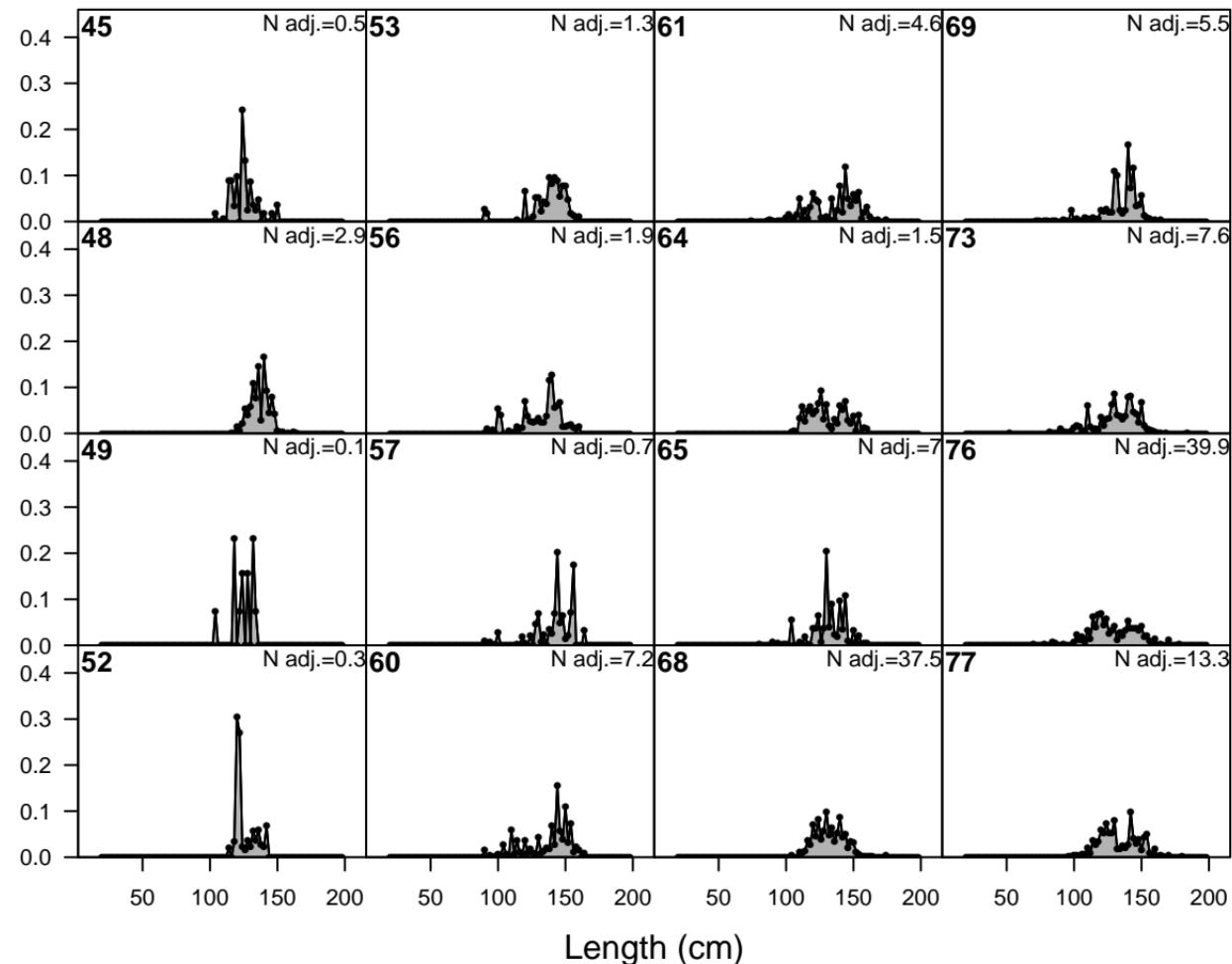




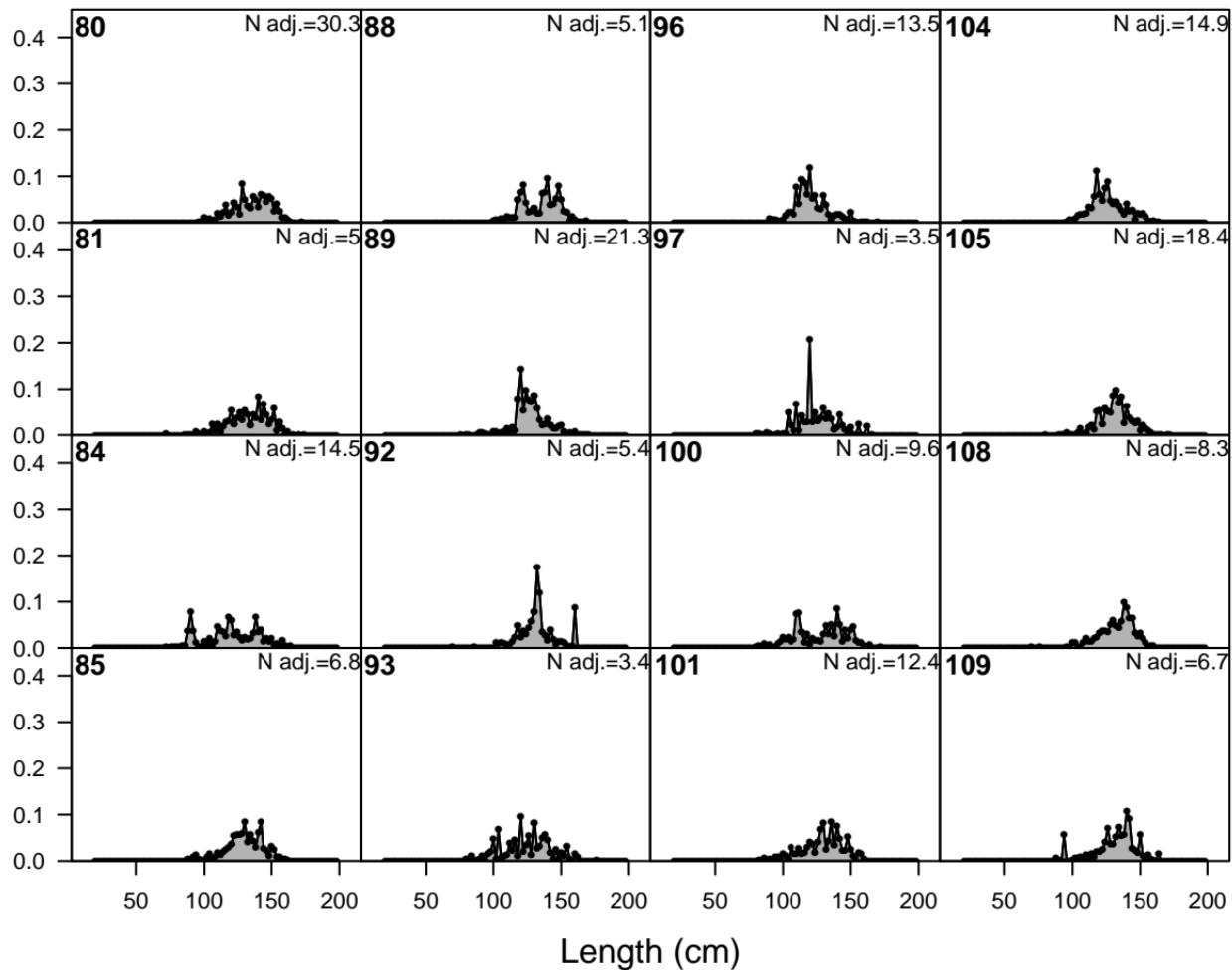
# F22-BB (whole catch)



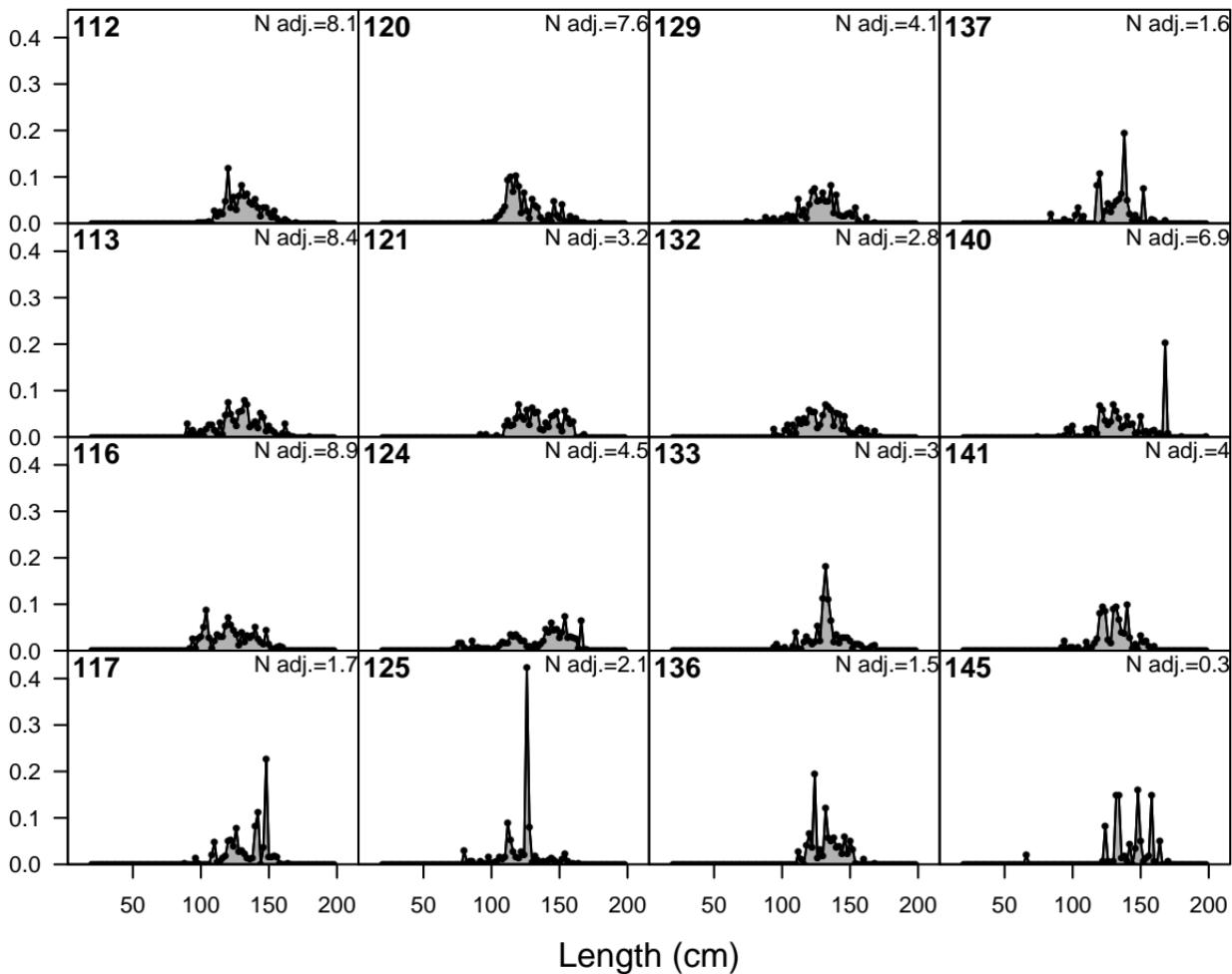
Proportion

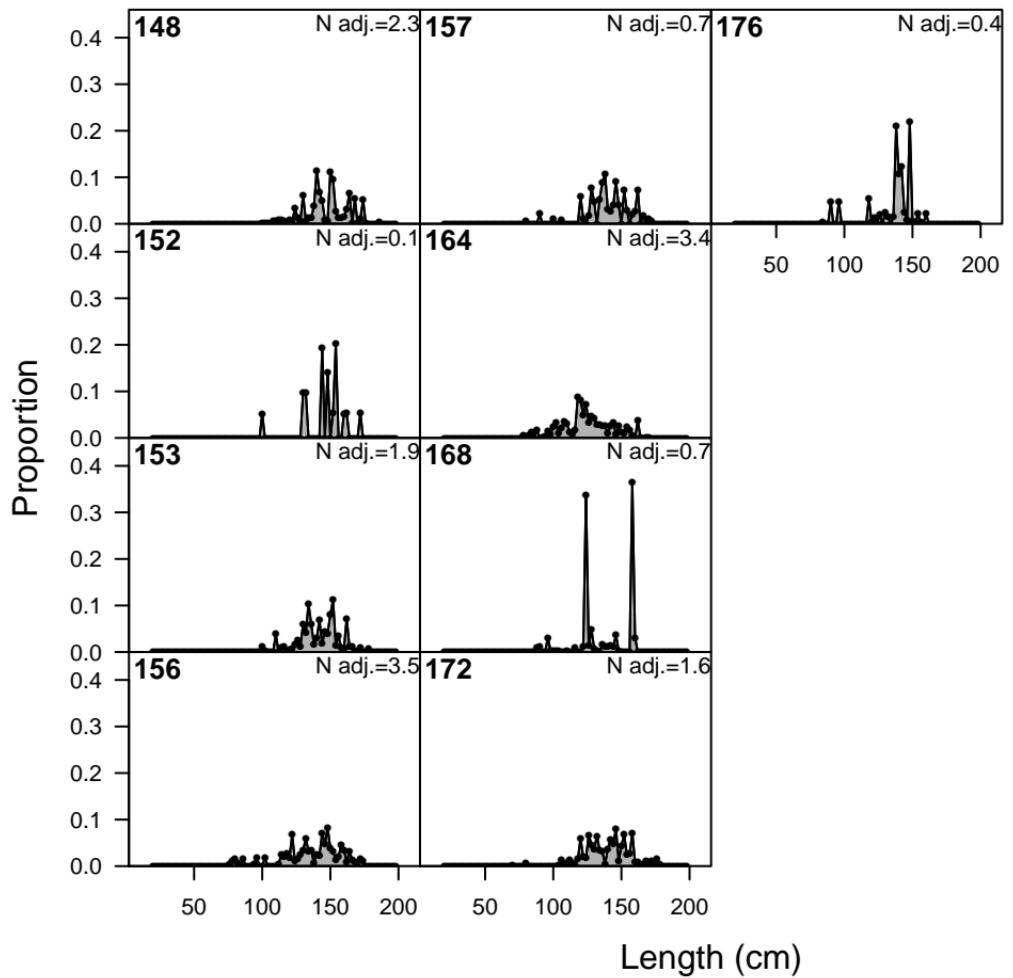


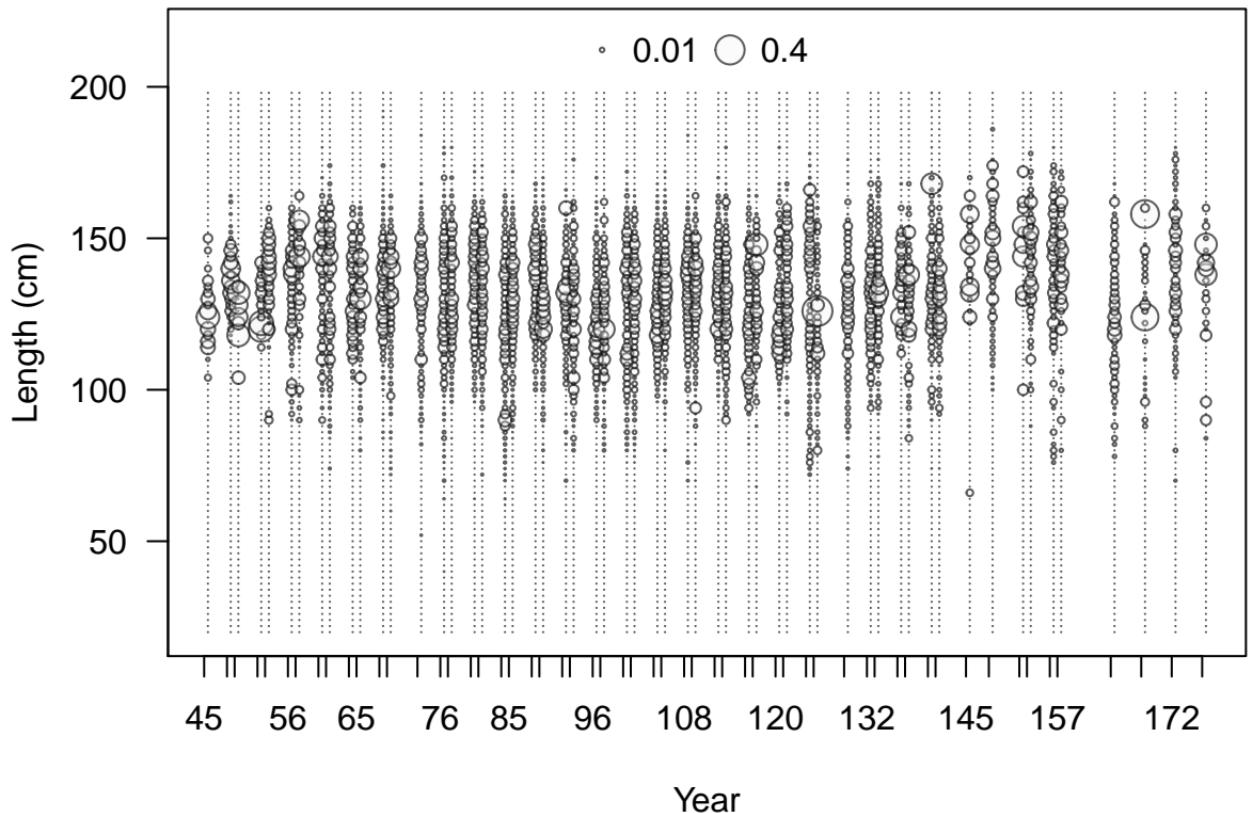
Proportion



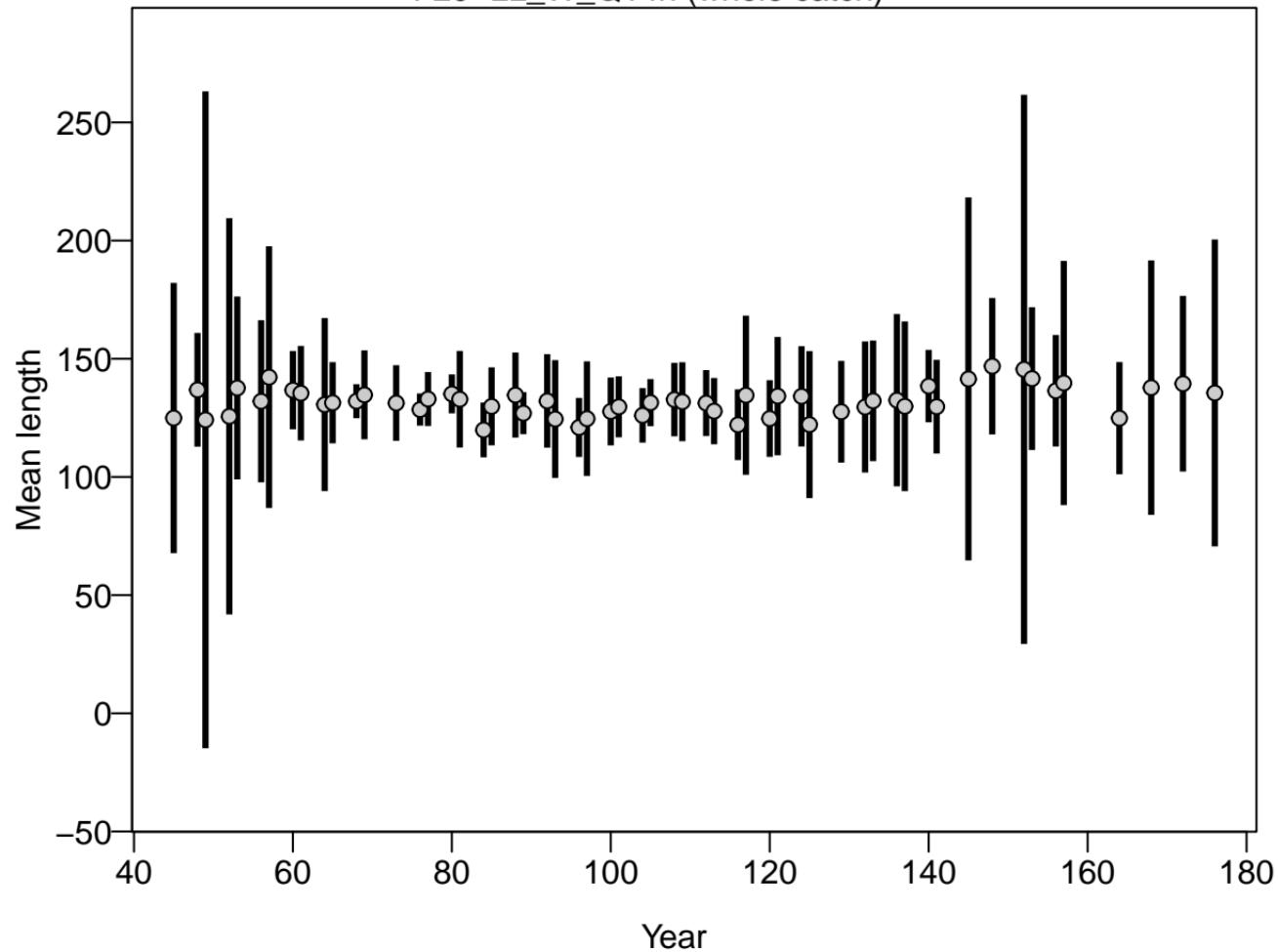
Proportion



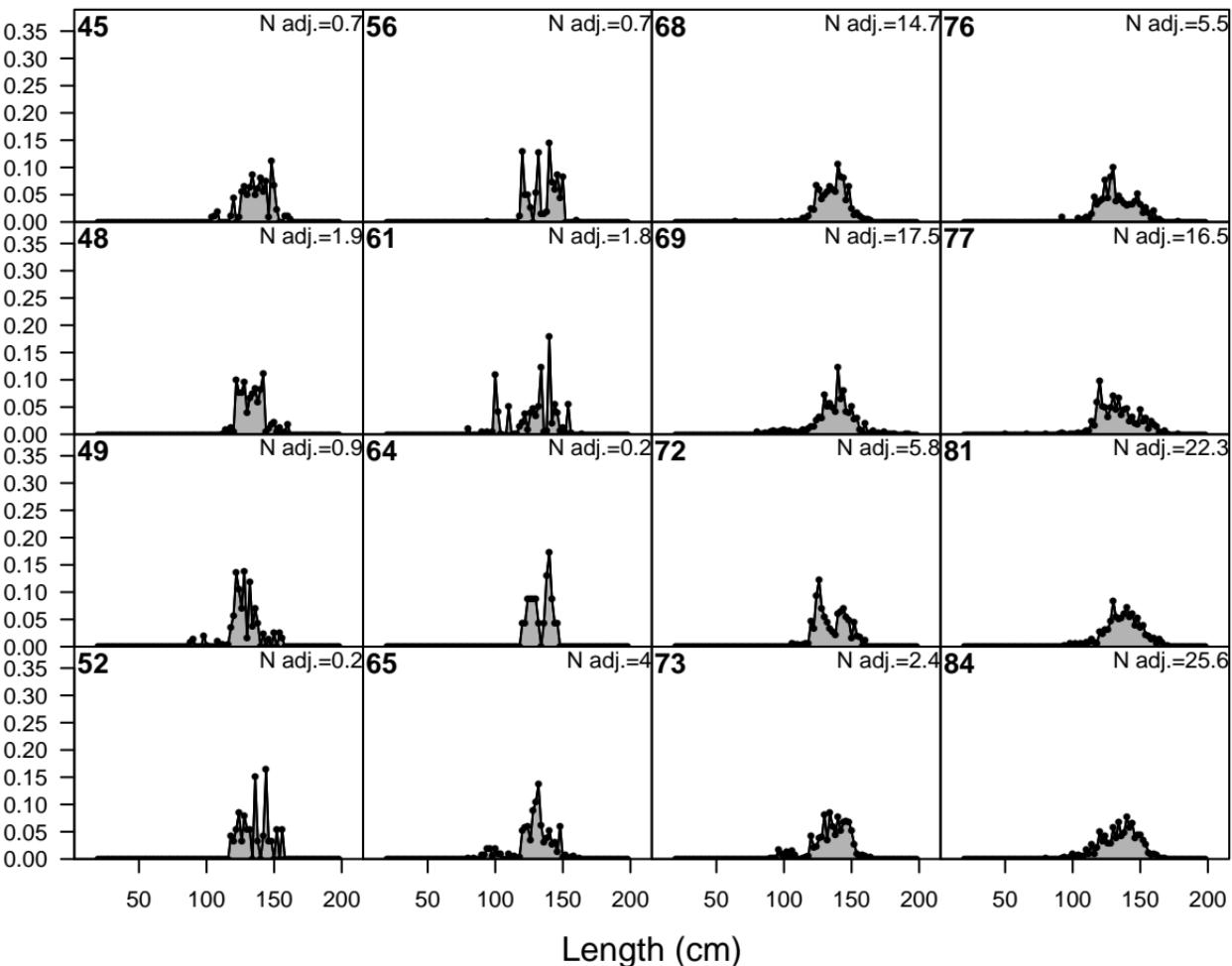




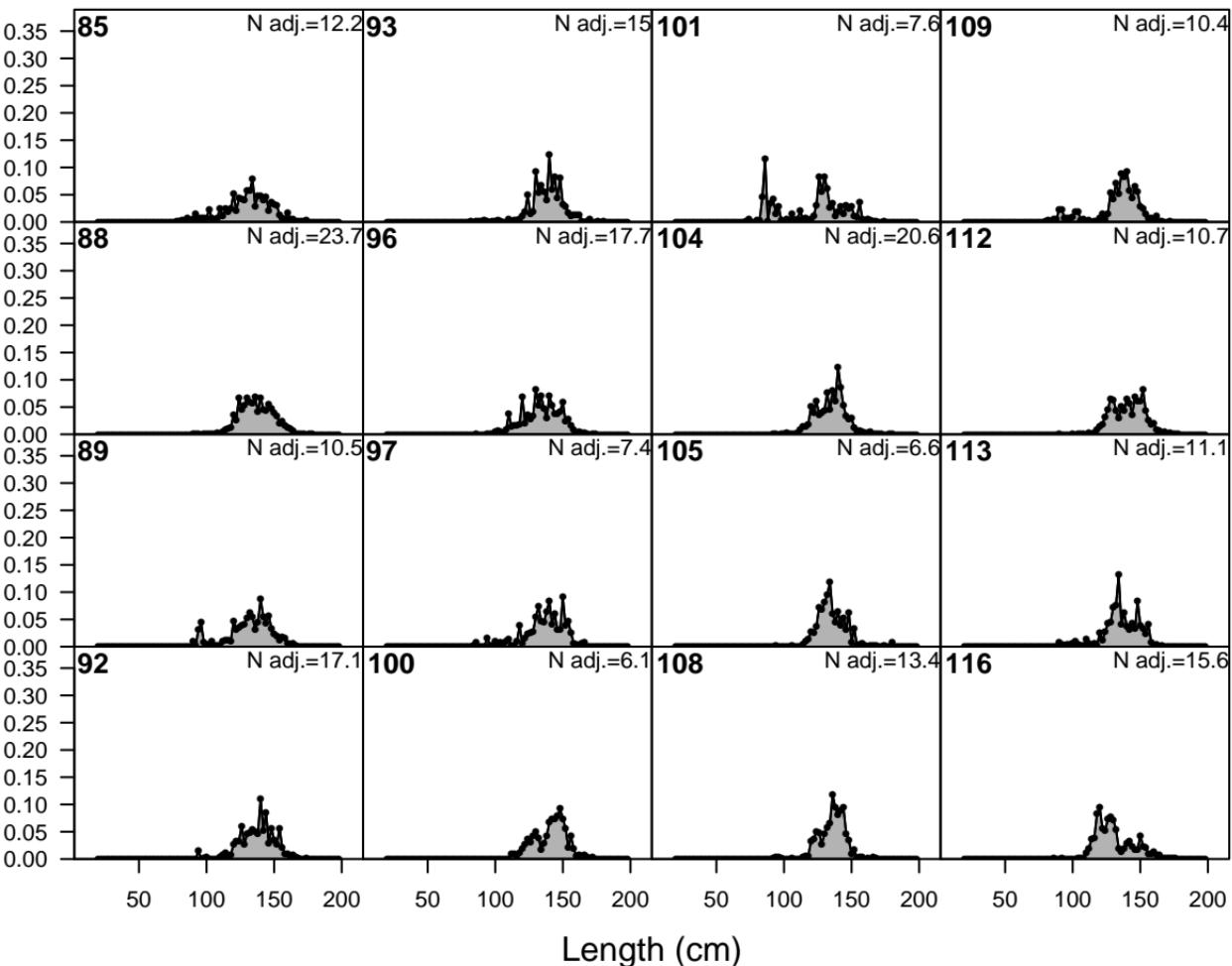
### F29-LL\_W\_Q14n (whole catch)



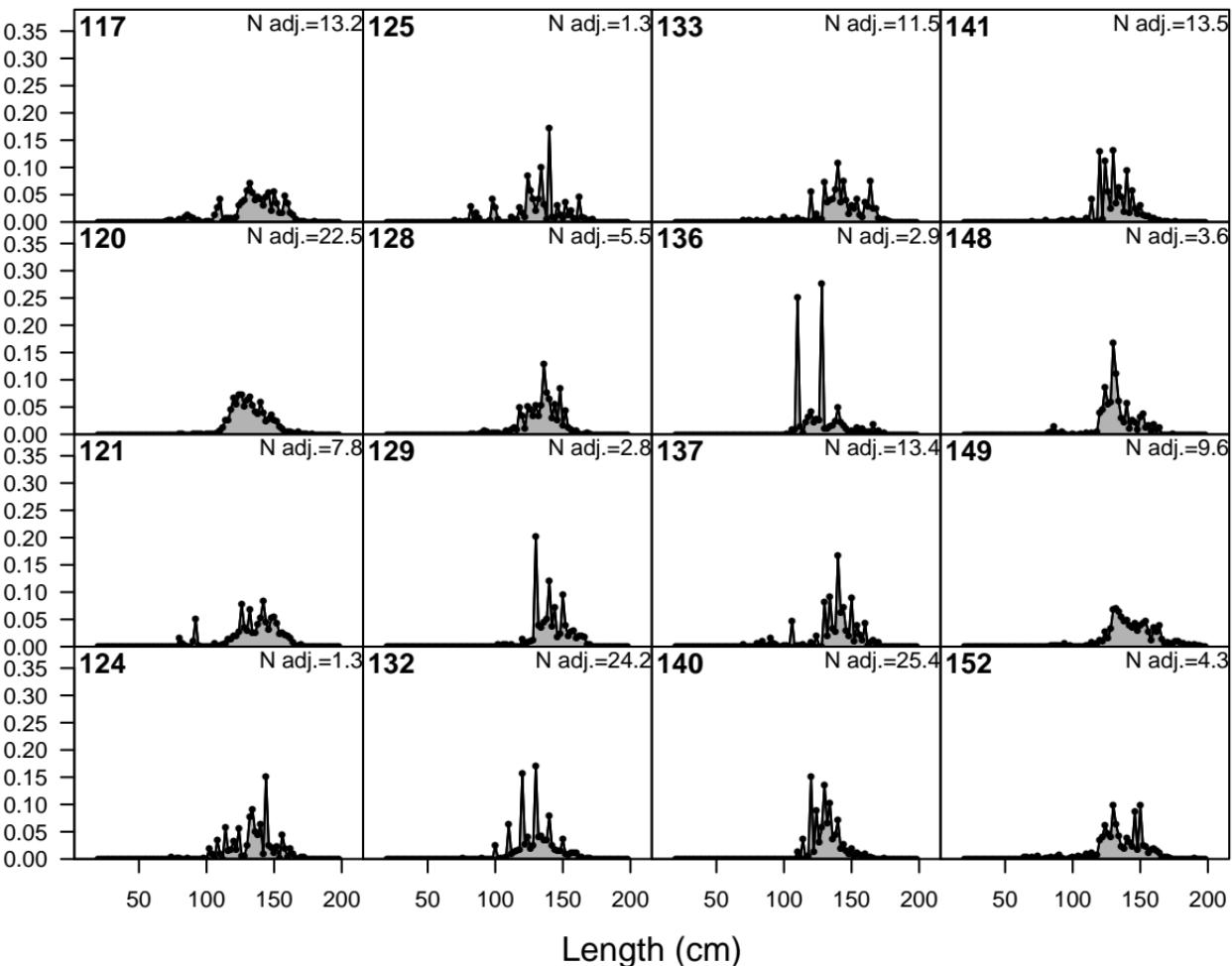
Proportion



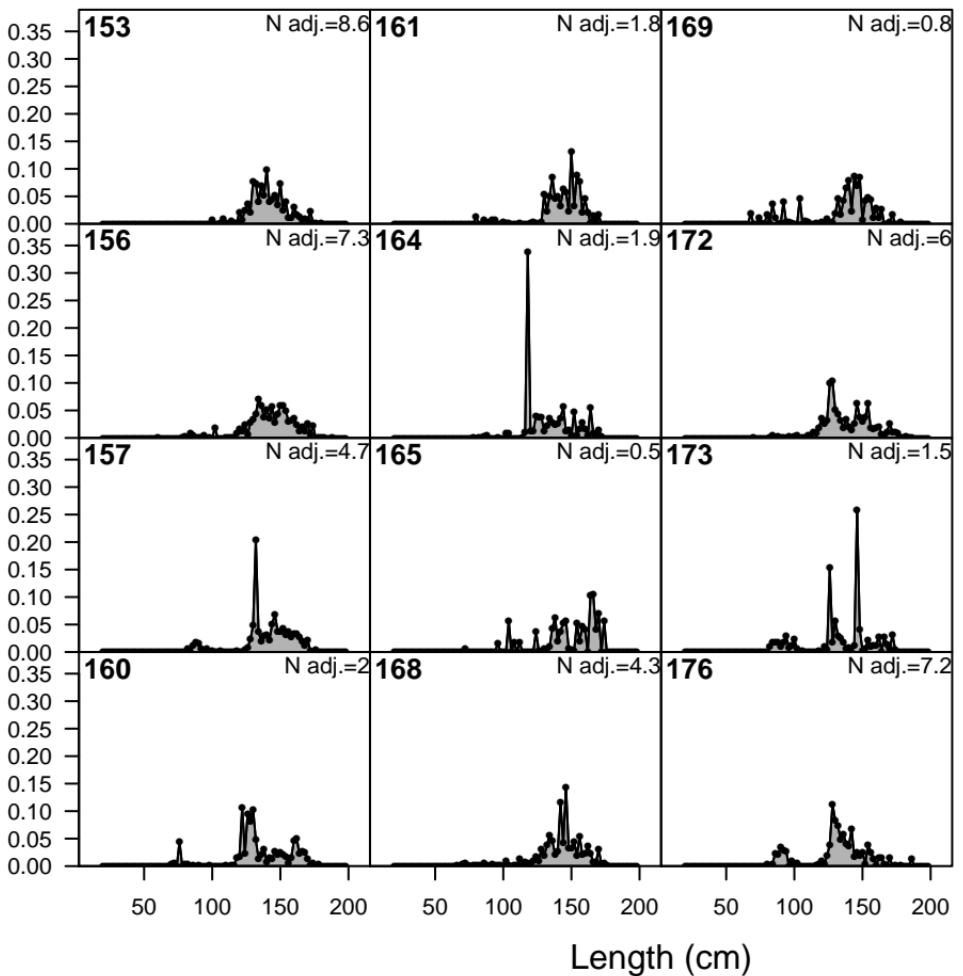
Proportion

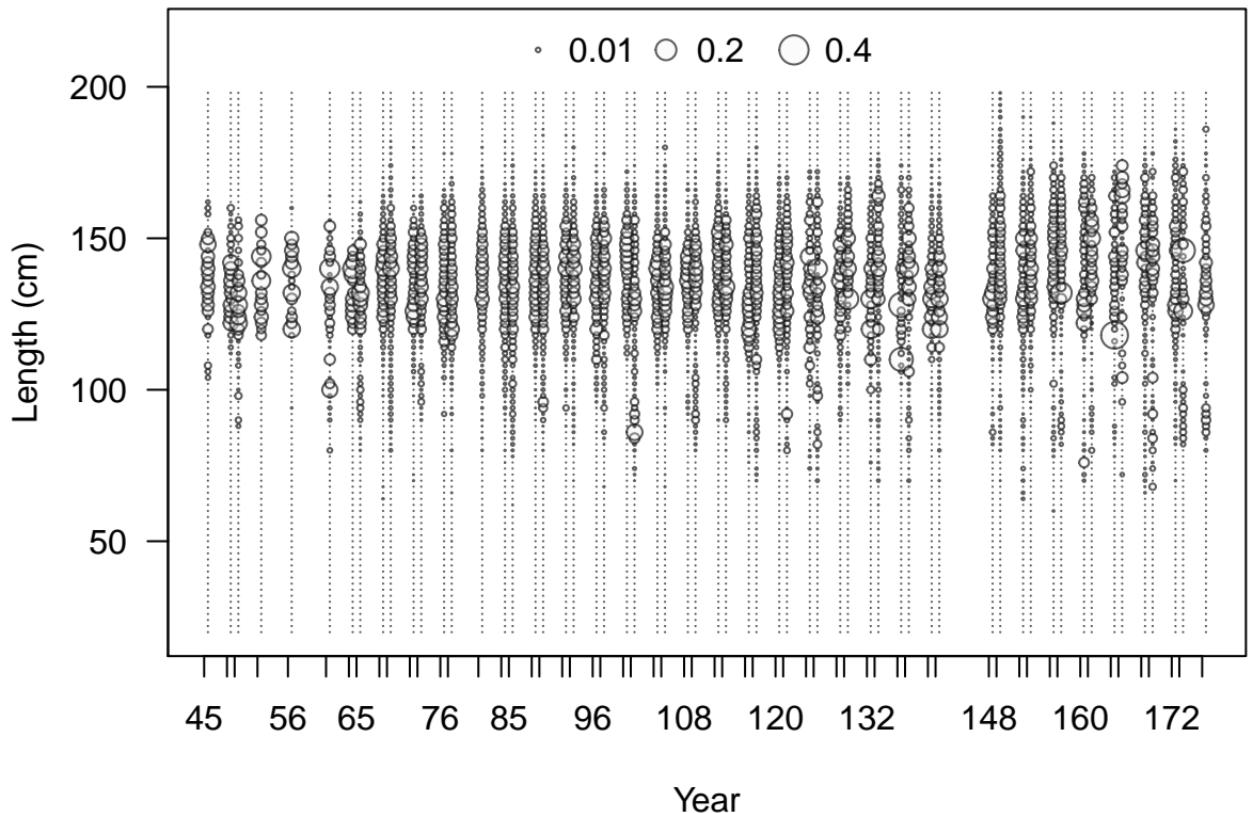


Proportion

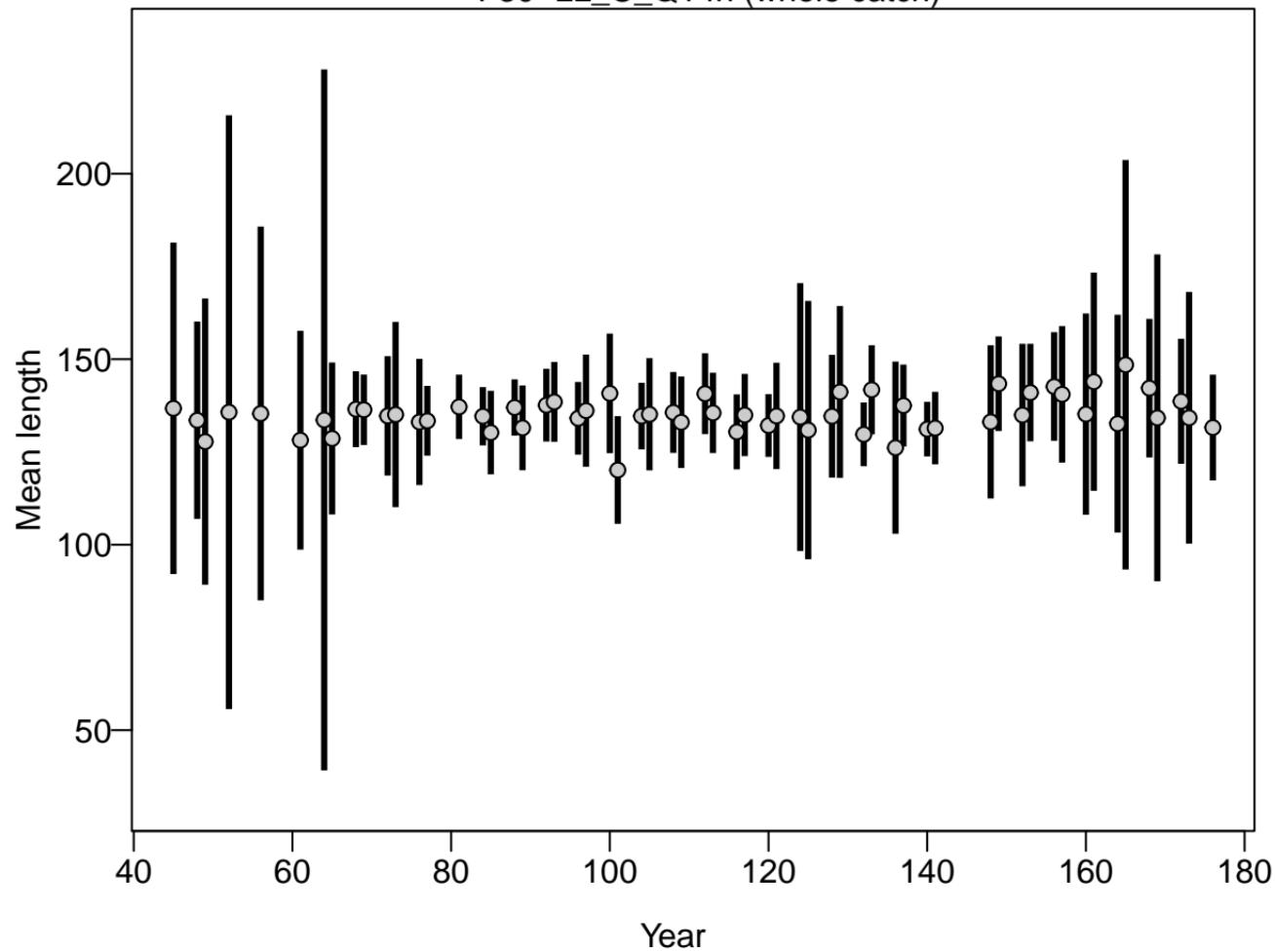


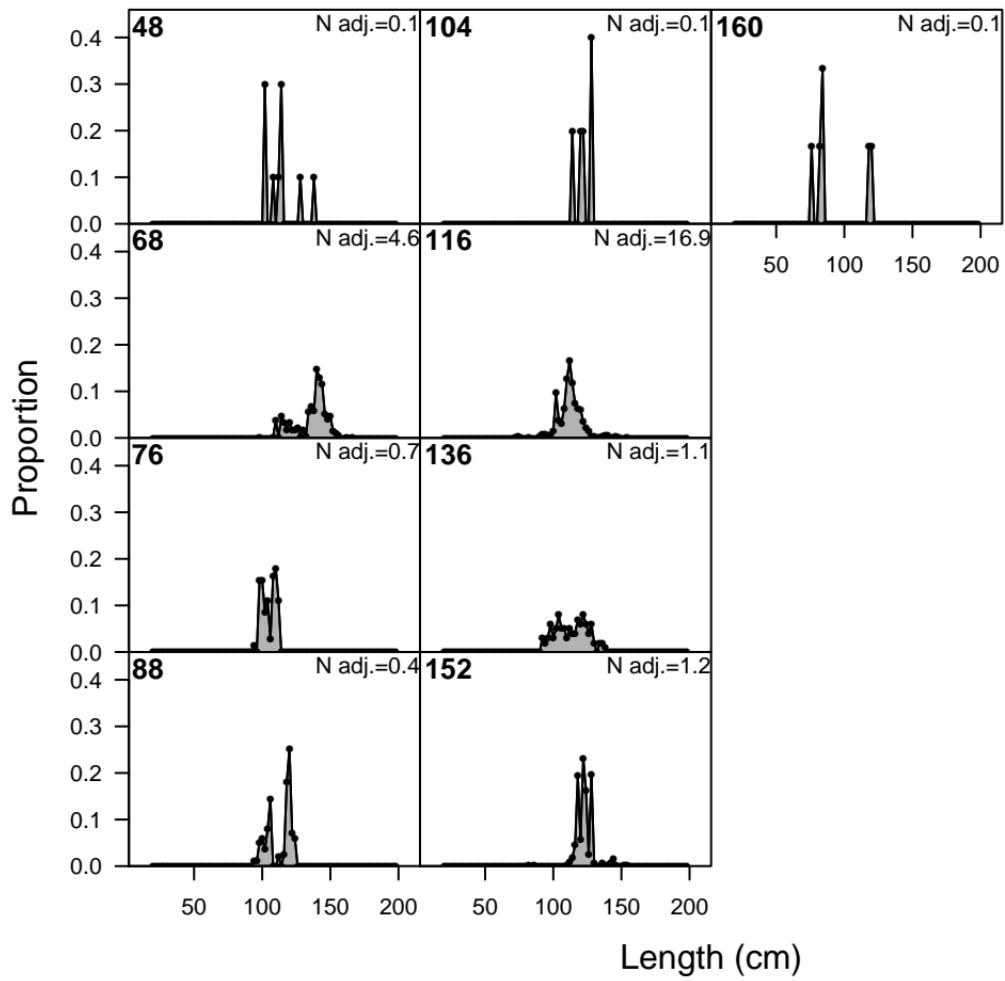
Proportion

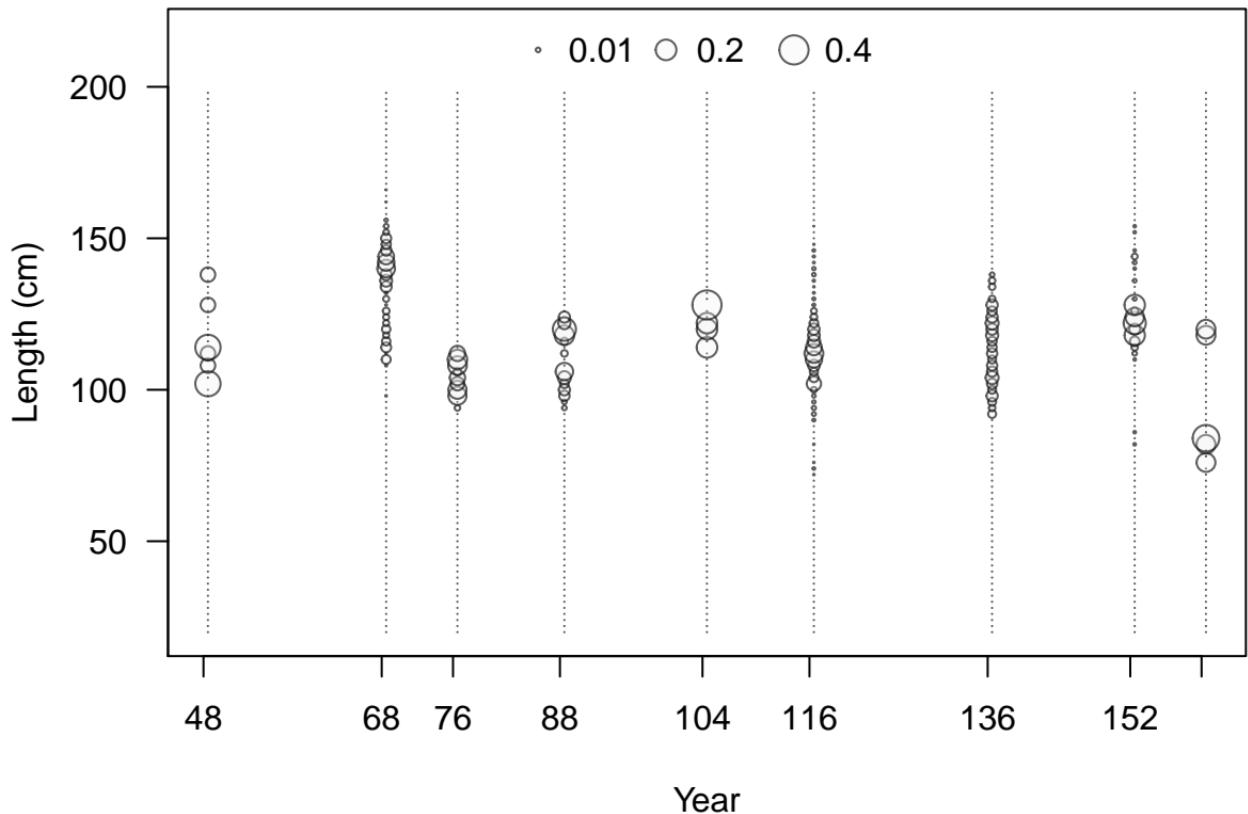




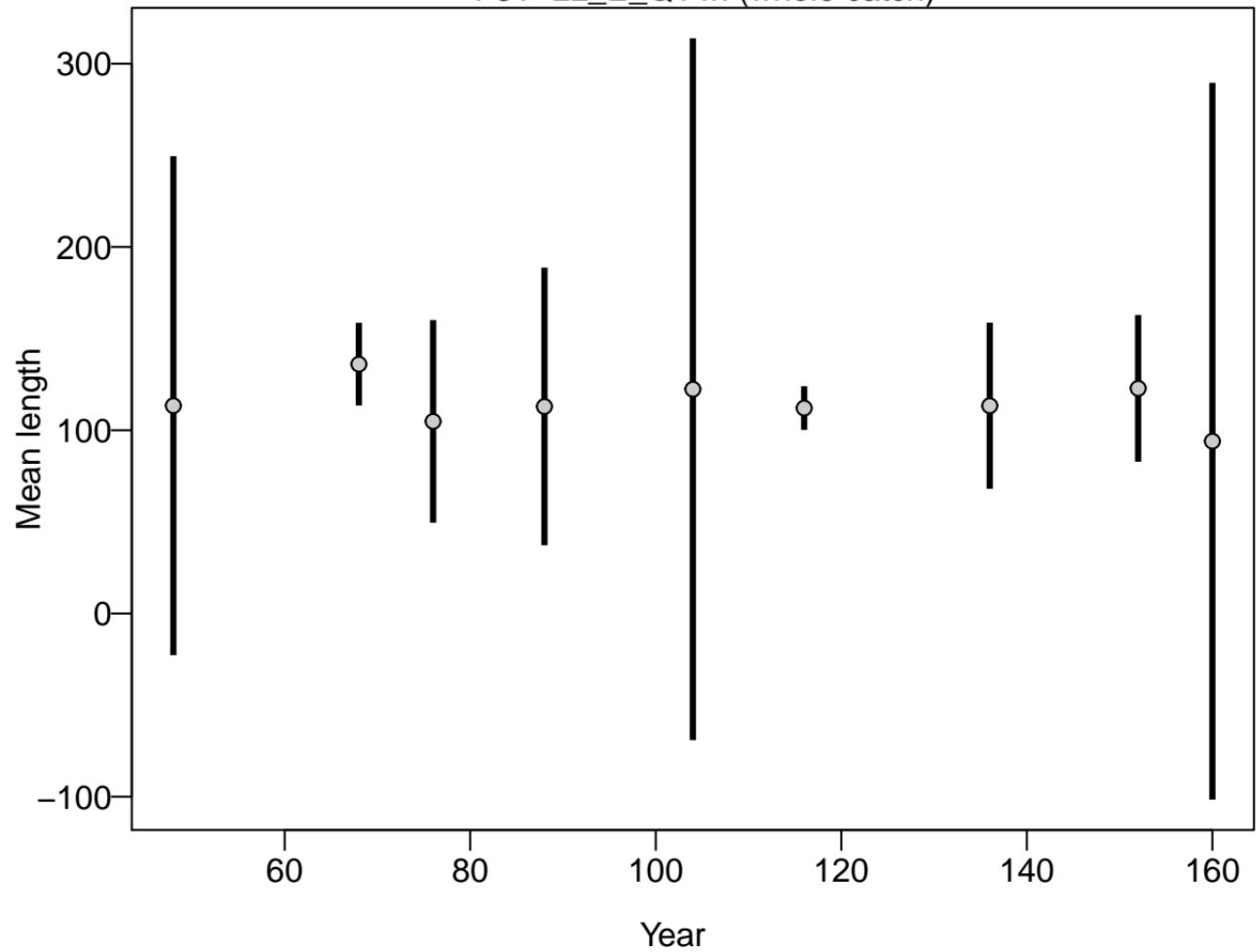
### F30-LL\_C\_Q14n (whole catch)



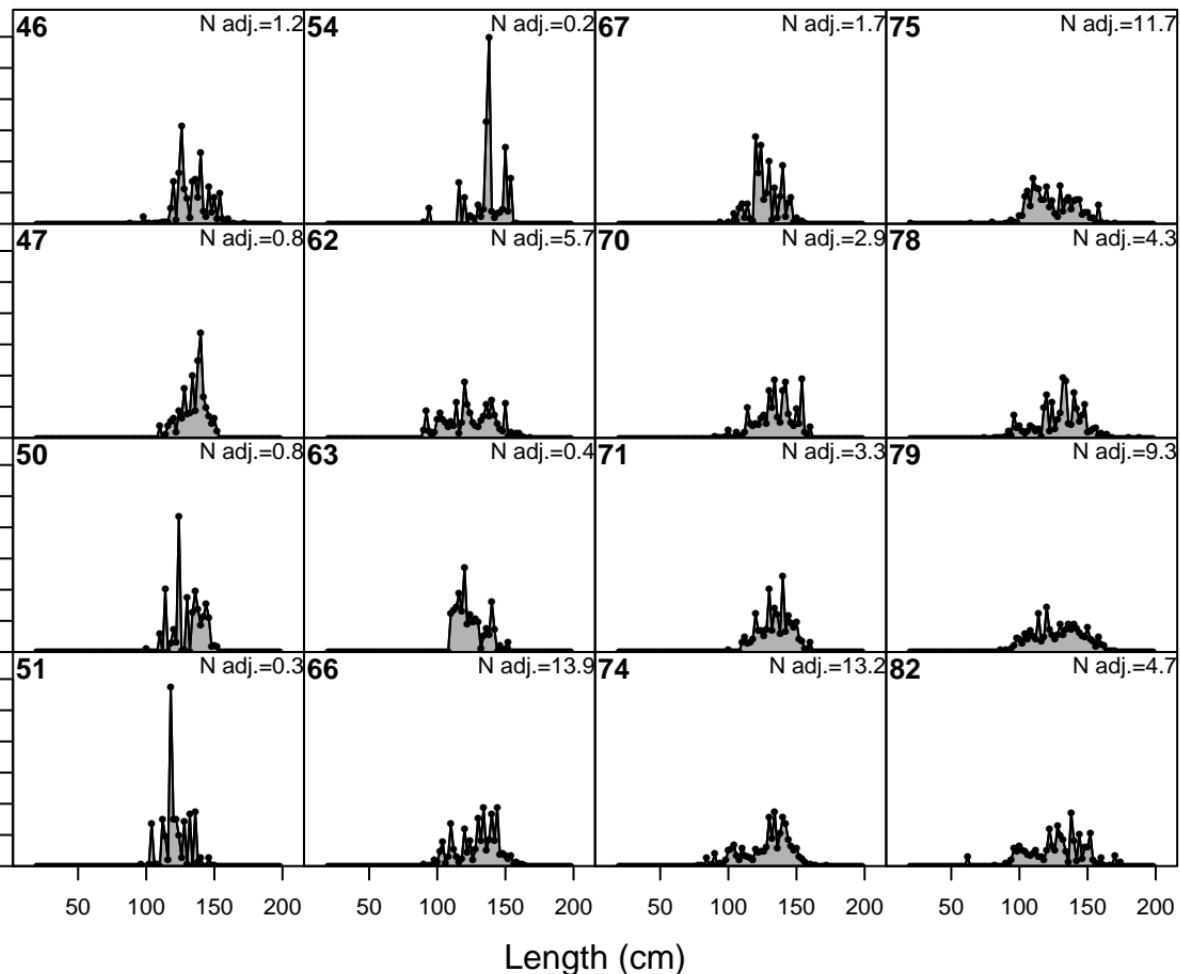




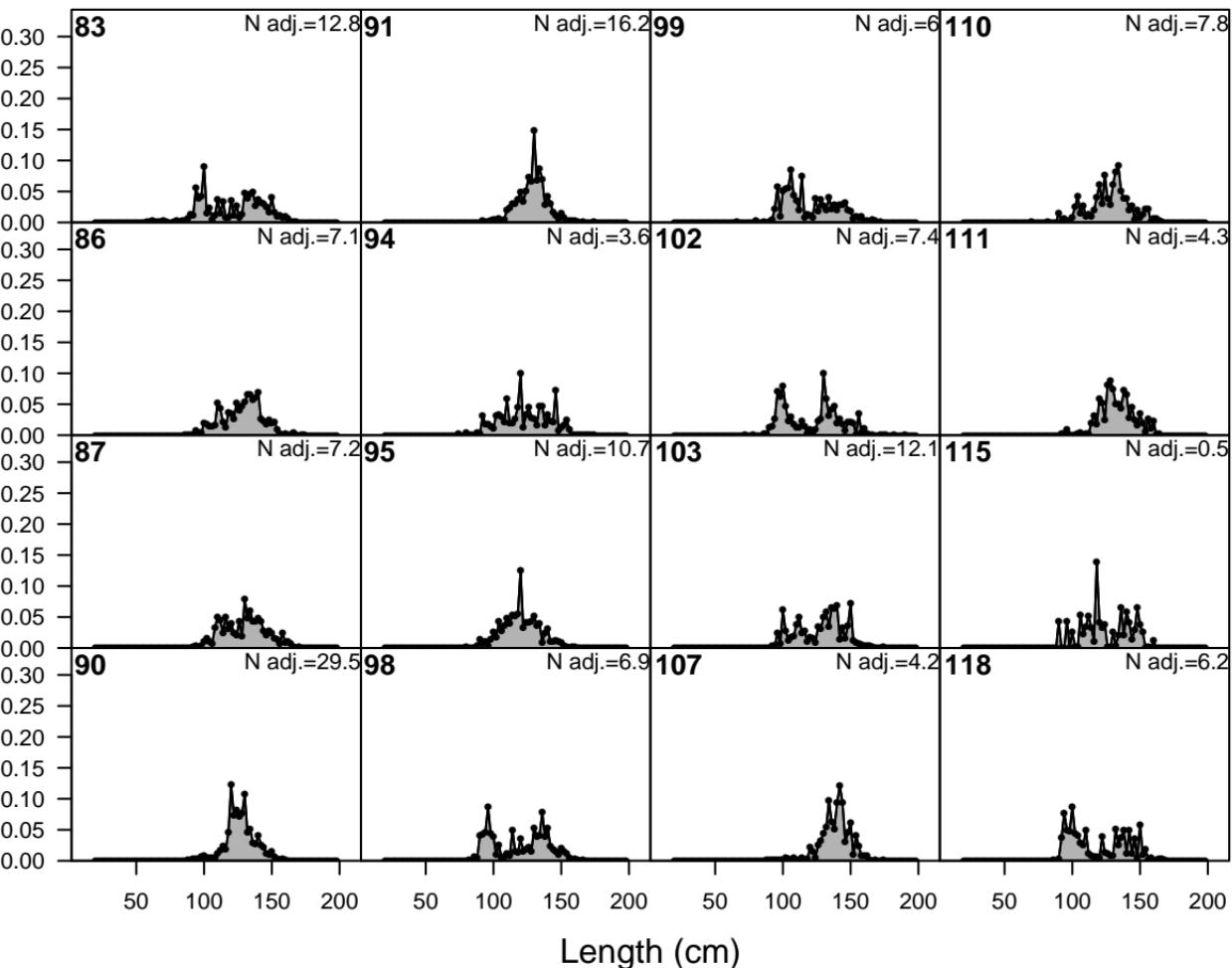
### F31-LL\_E\_Q14n (whole catch)

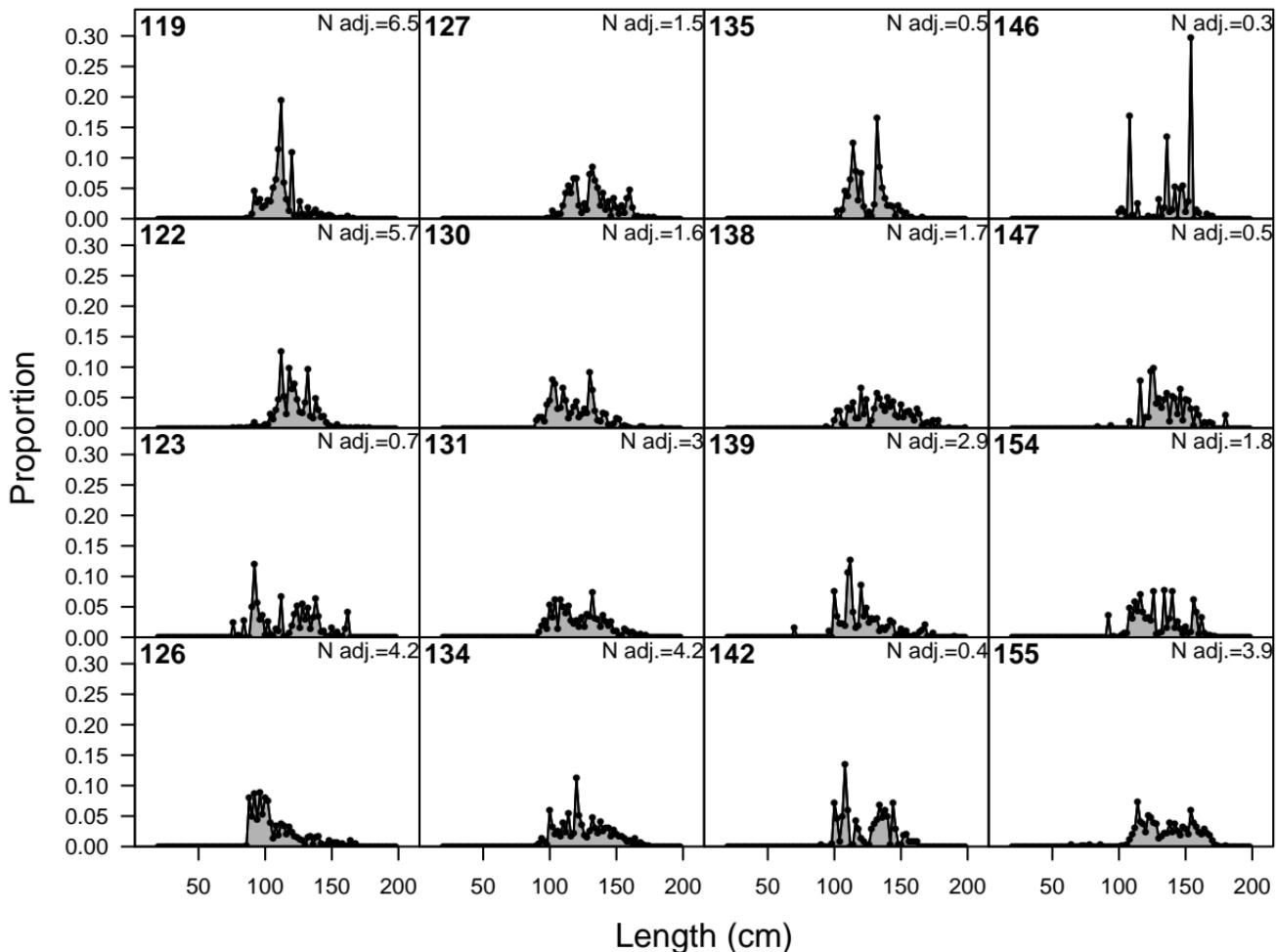


Proportion

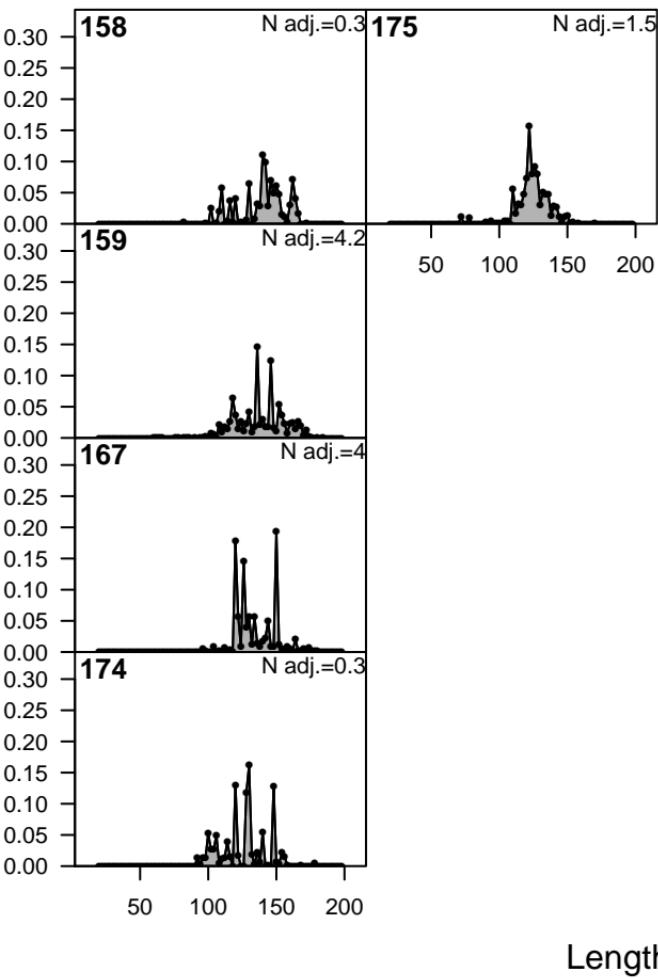


Proportion

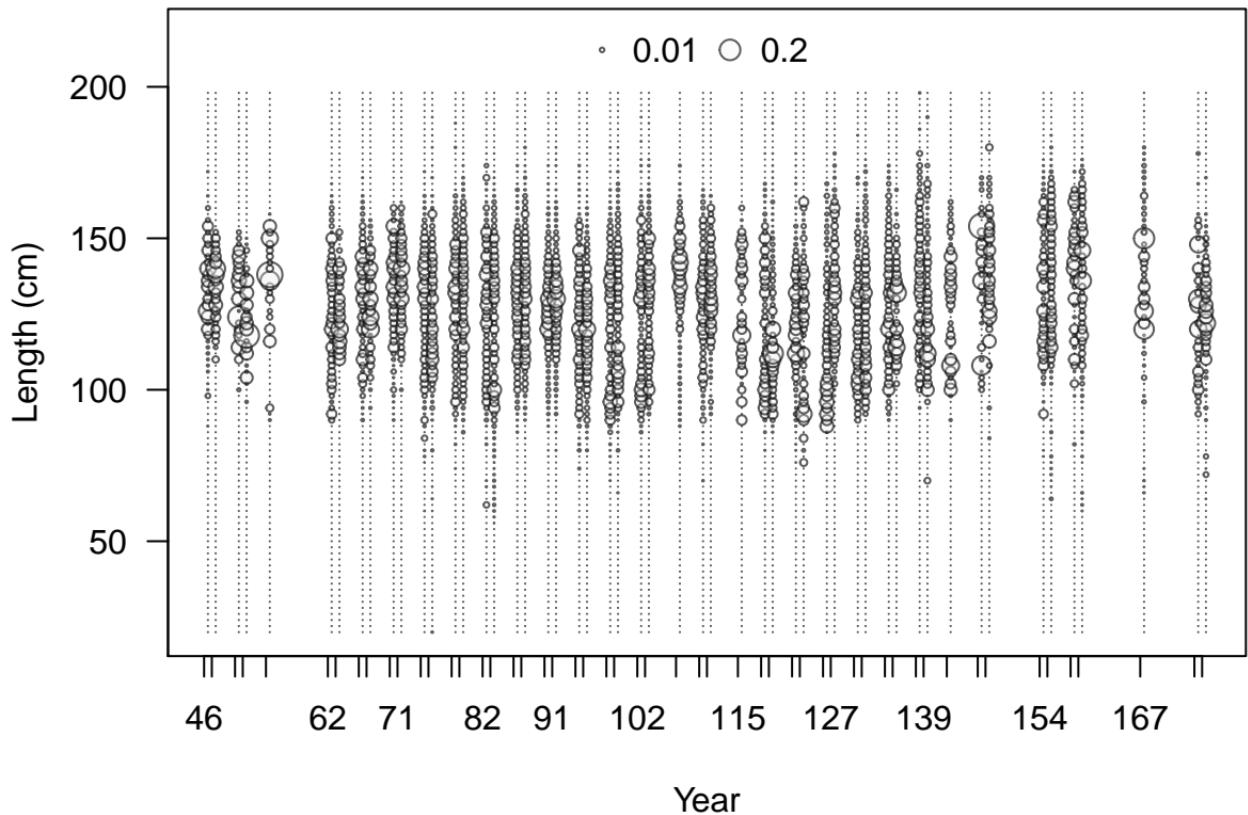




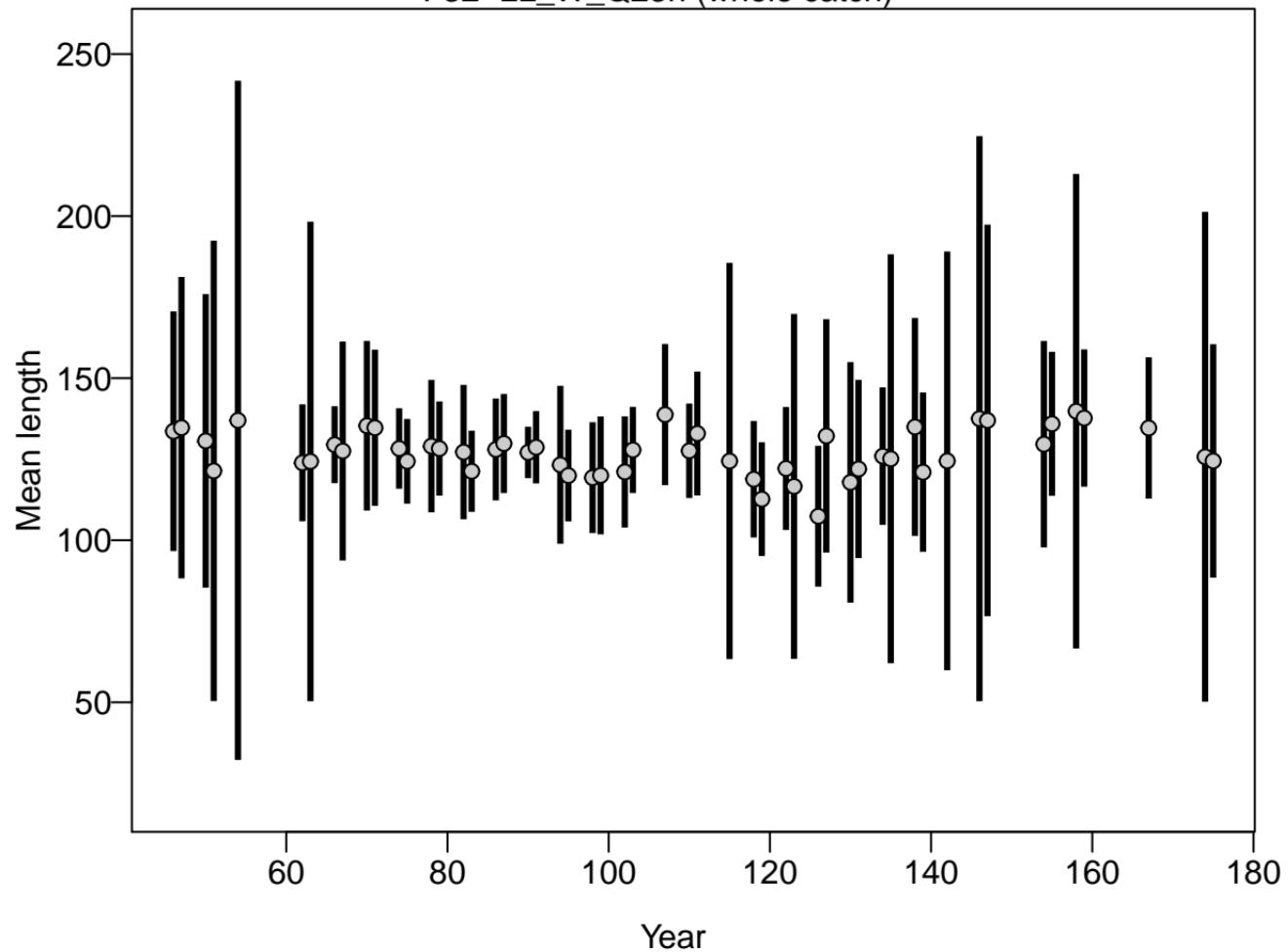
Proportion



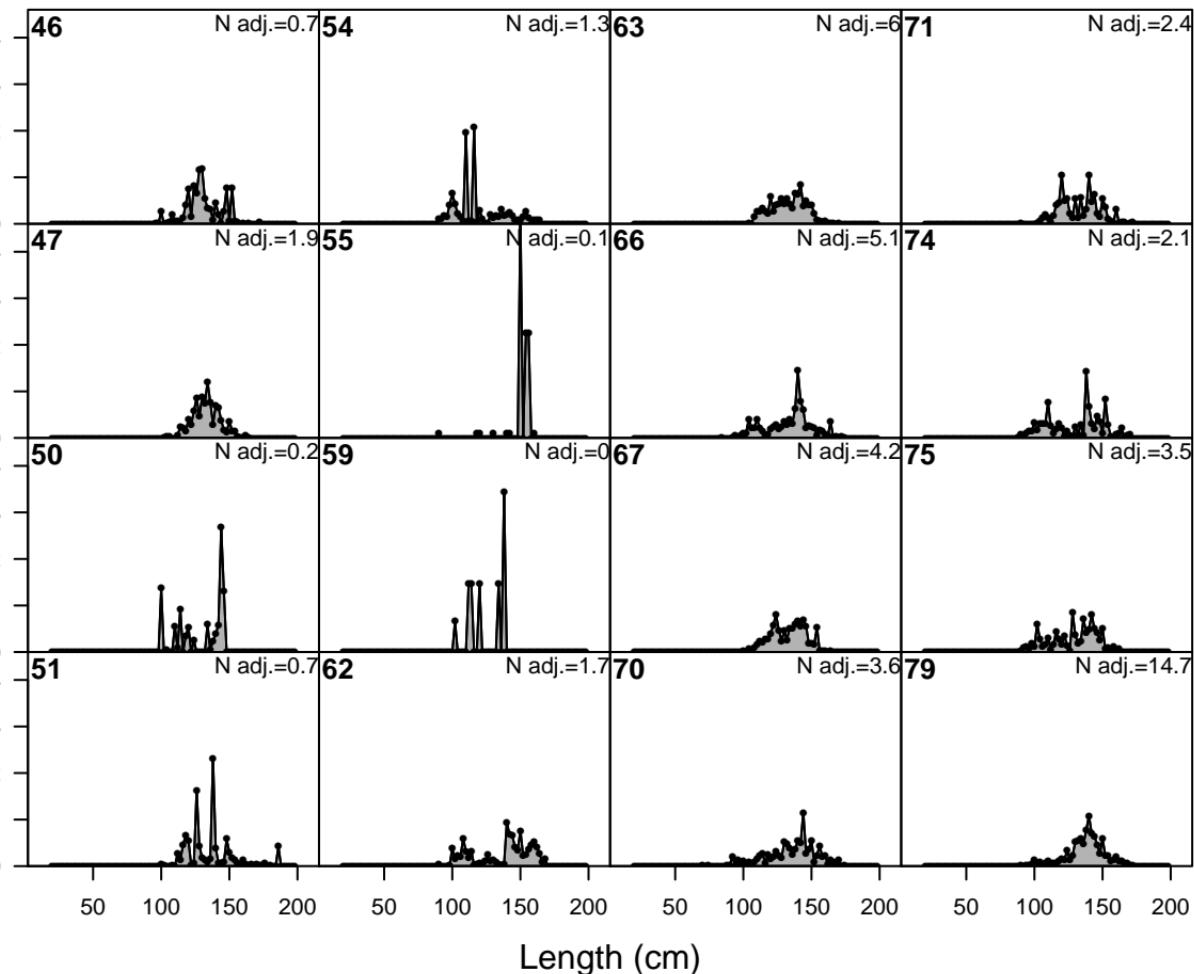
Length (cm)

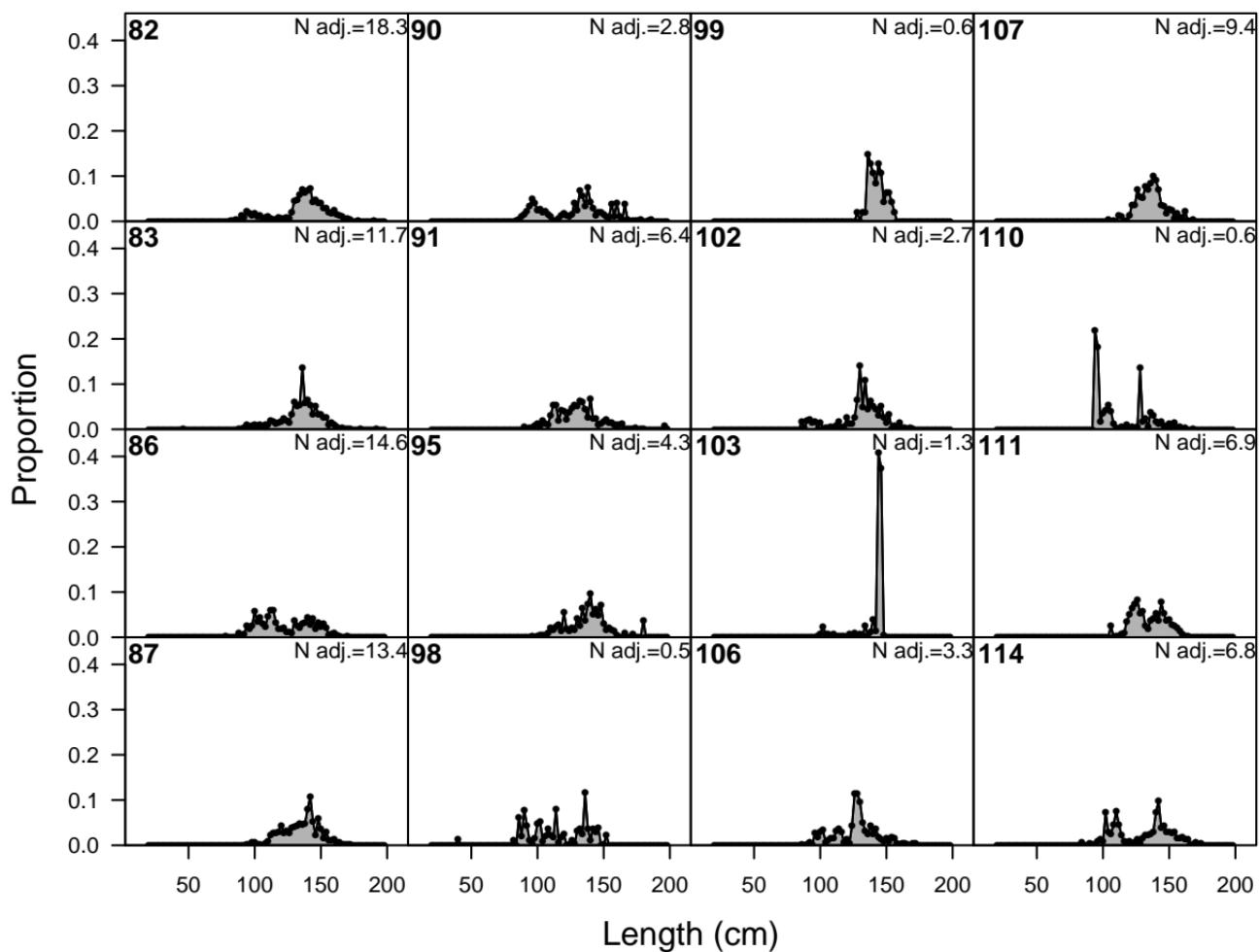


### F32-LL\_W\_Q23n (whole catch)

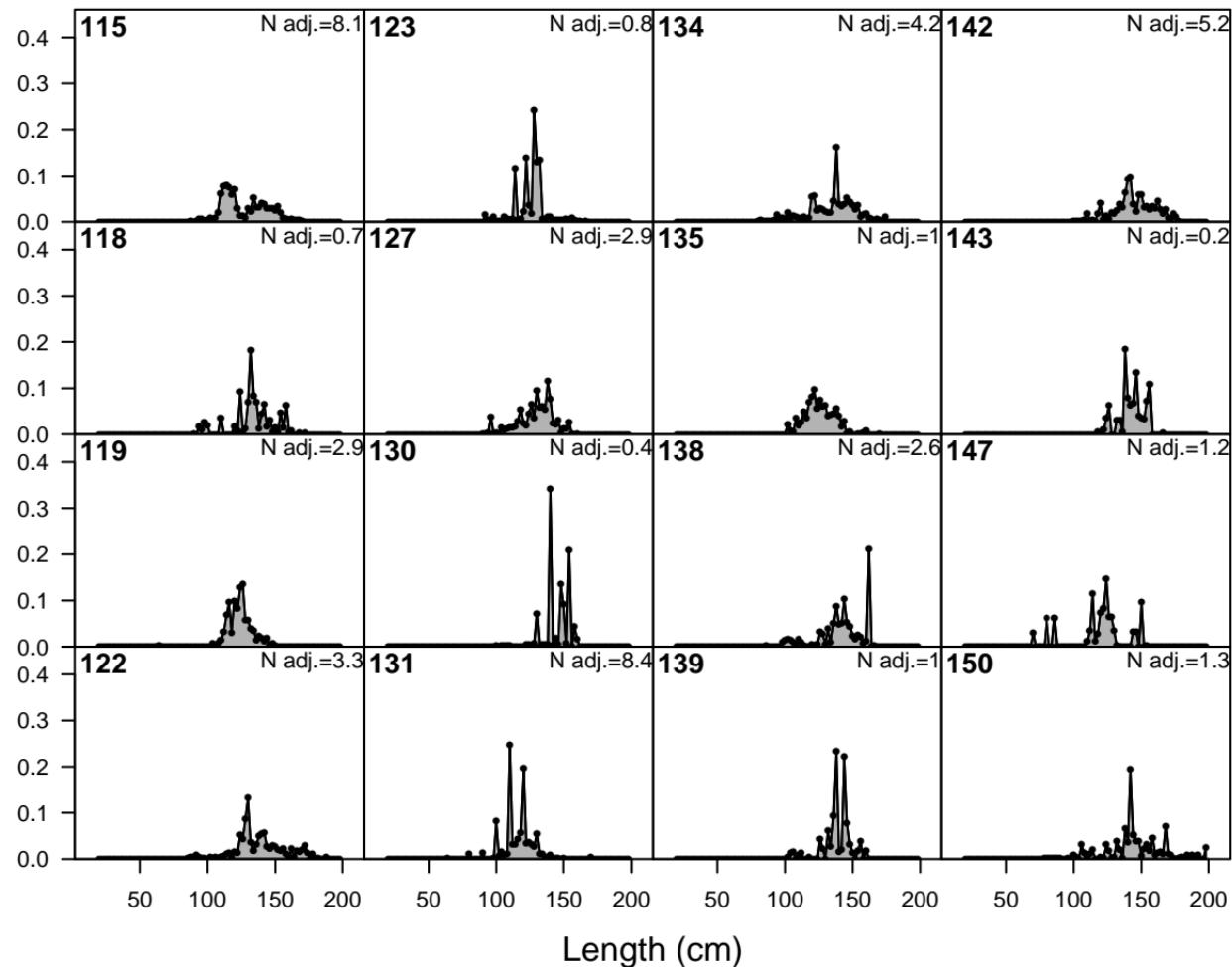


Proportion

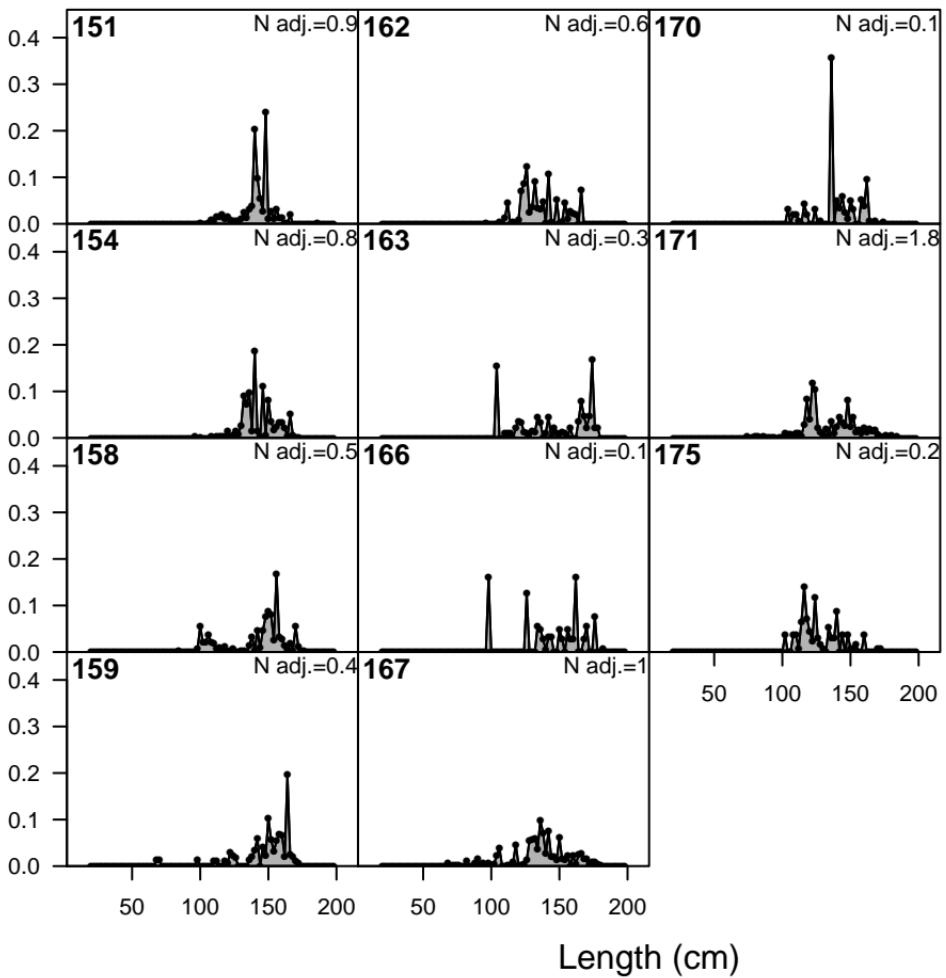


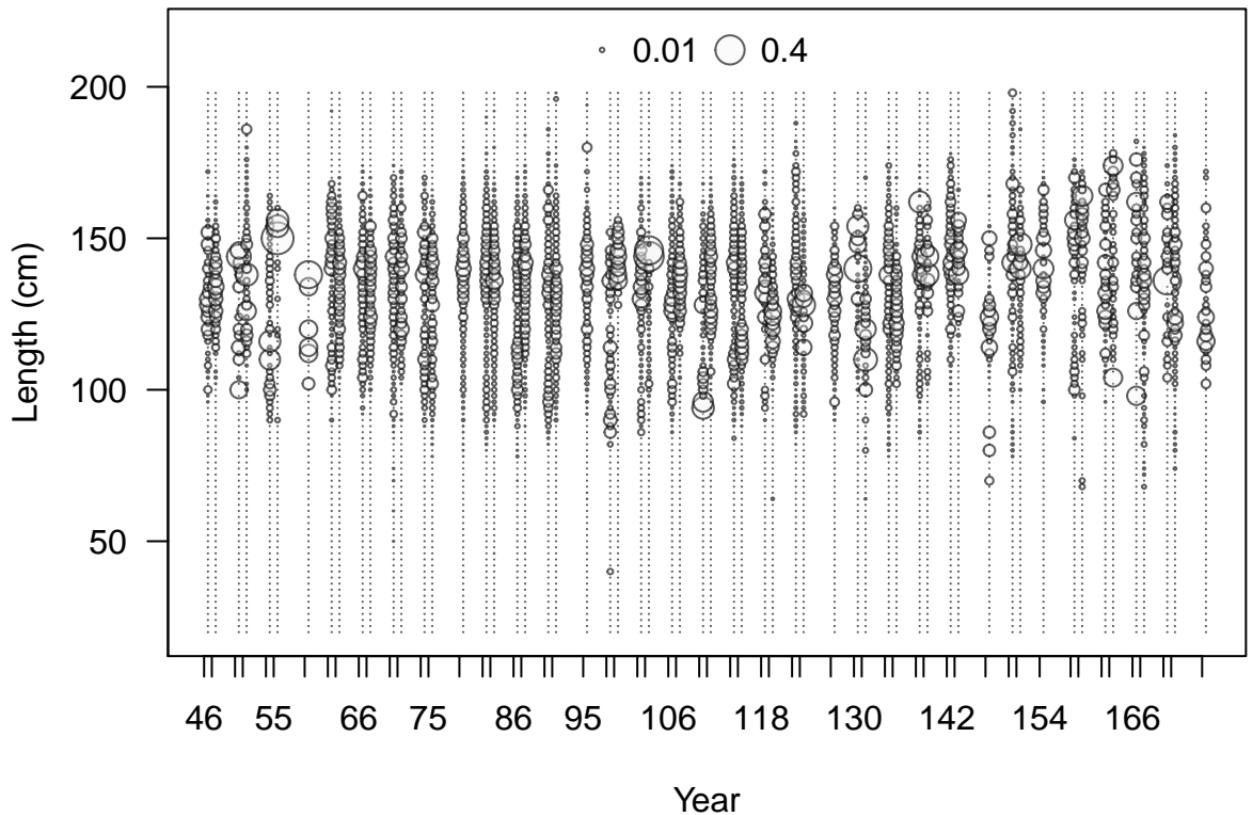


Proportion

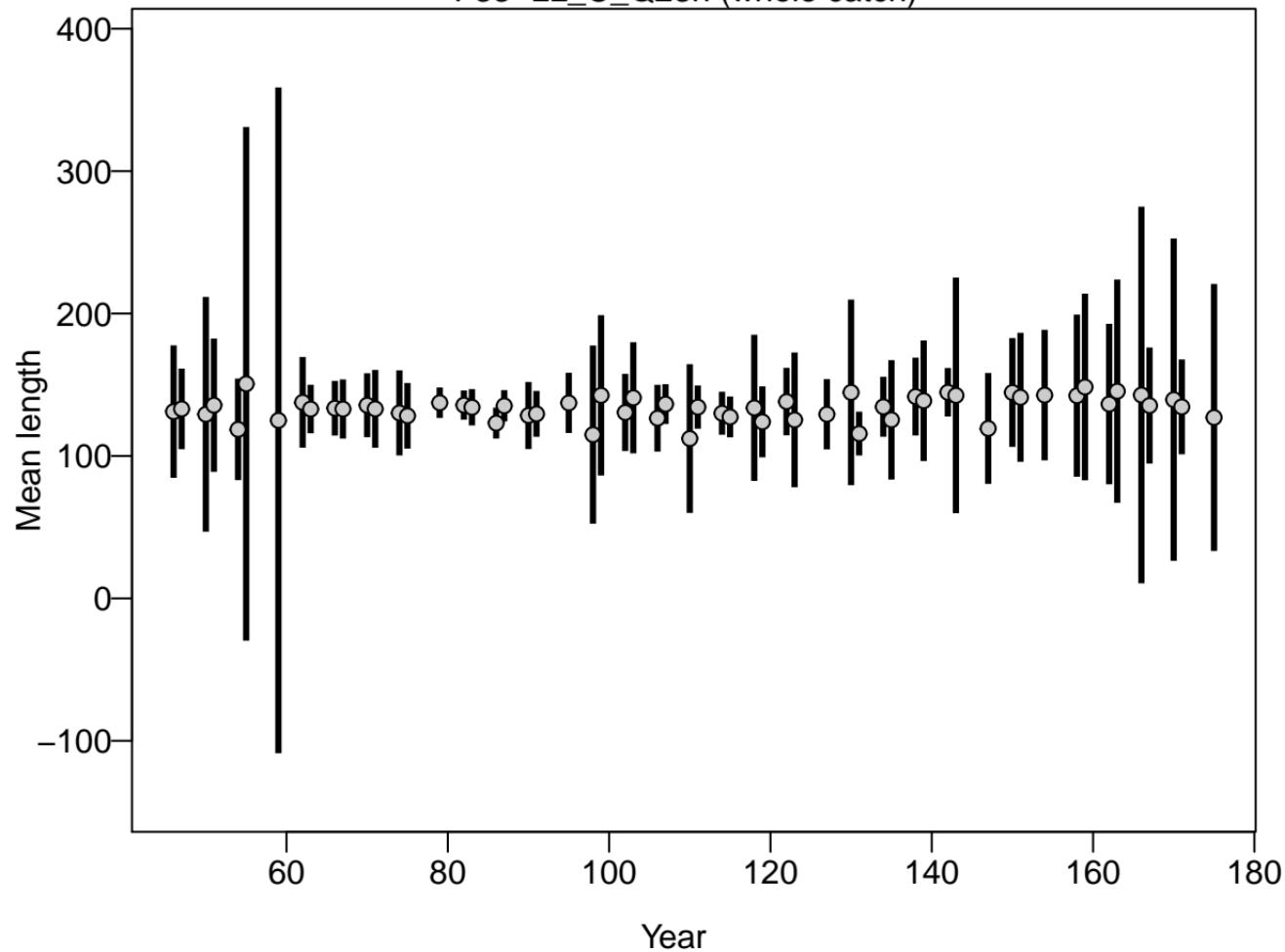


Proportion

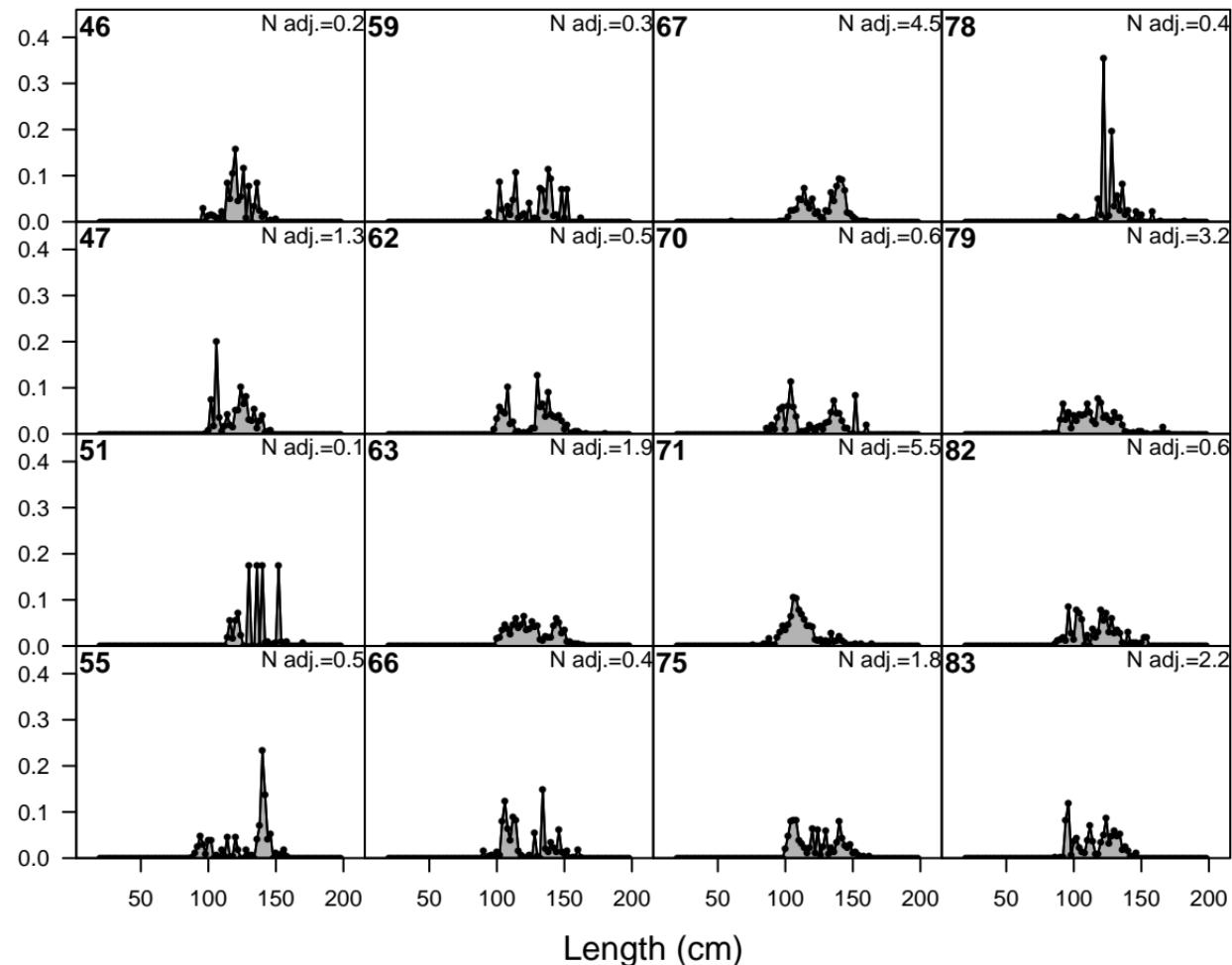




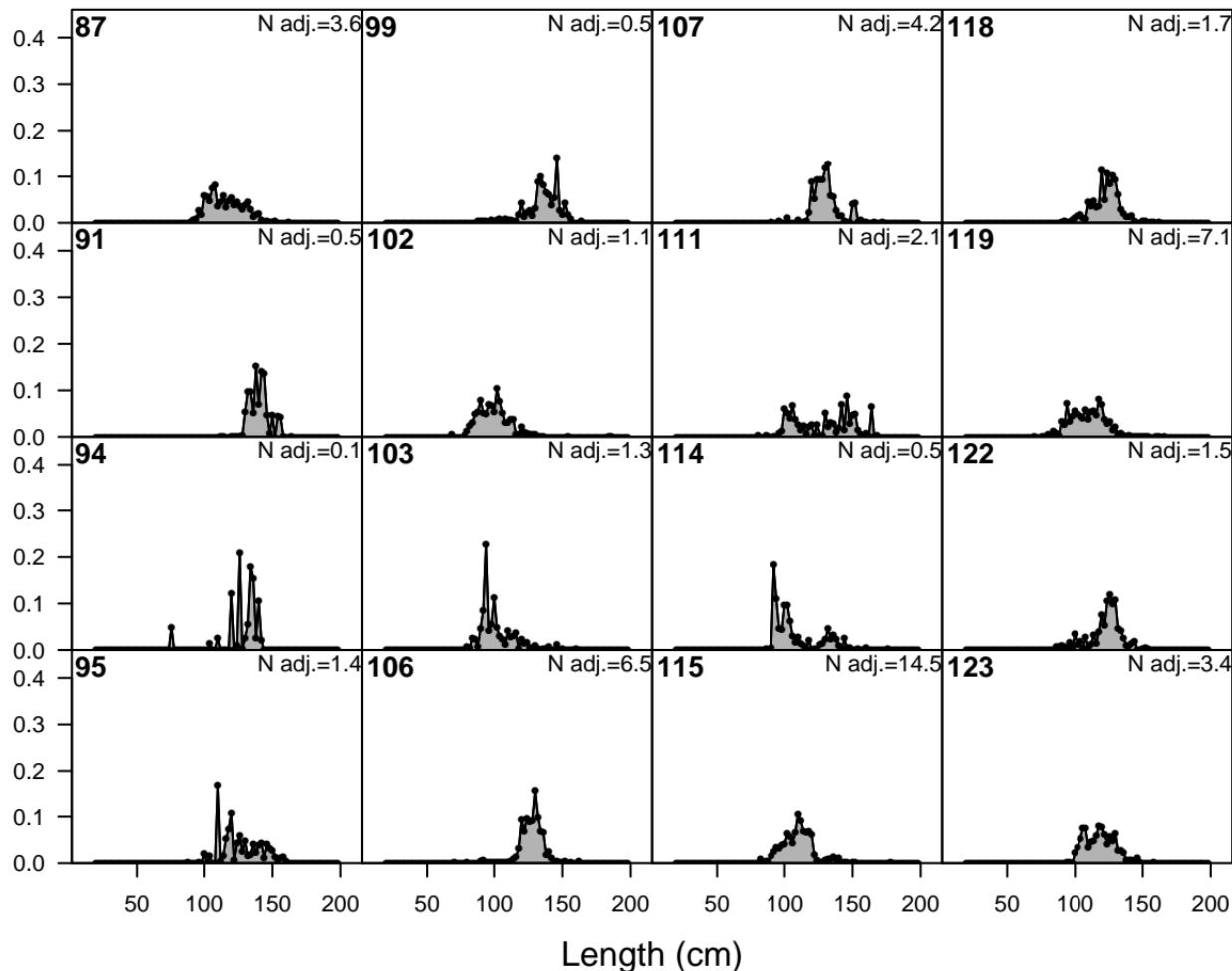
### F33-LL\_C\_Q23n (whole catch)

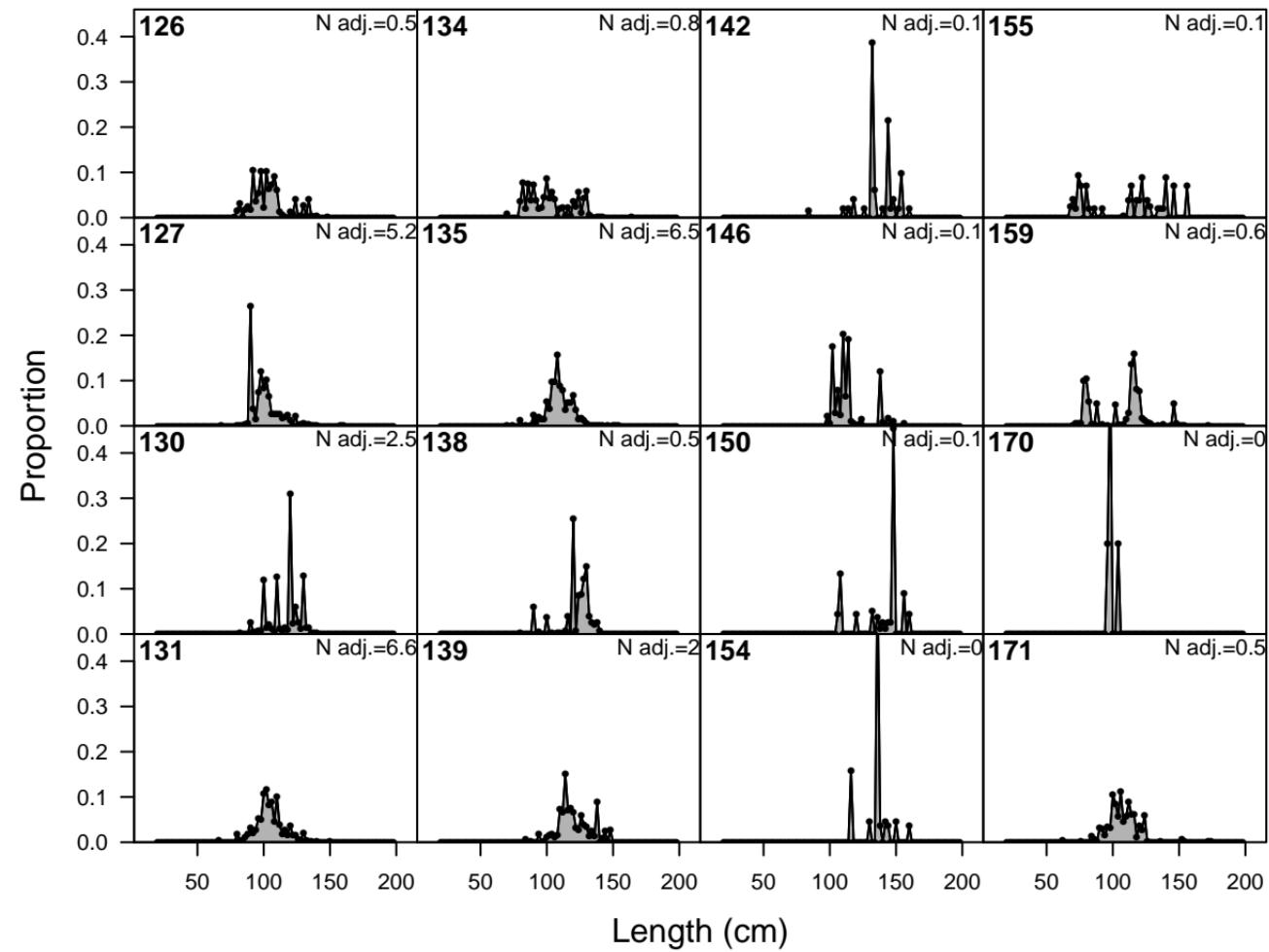


Proportion

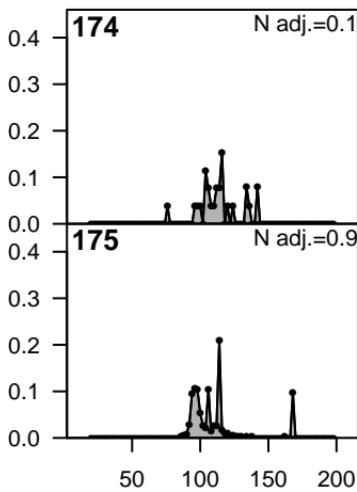


Proportion

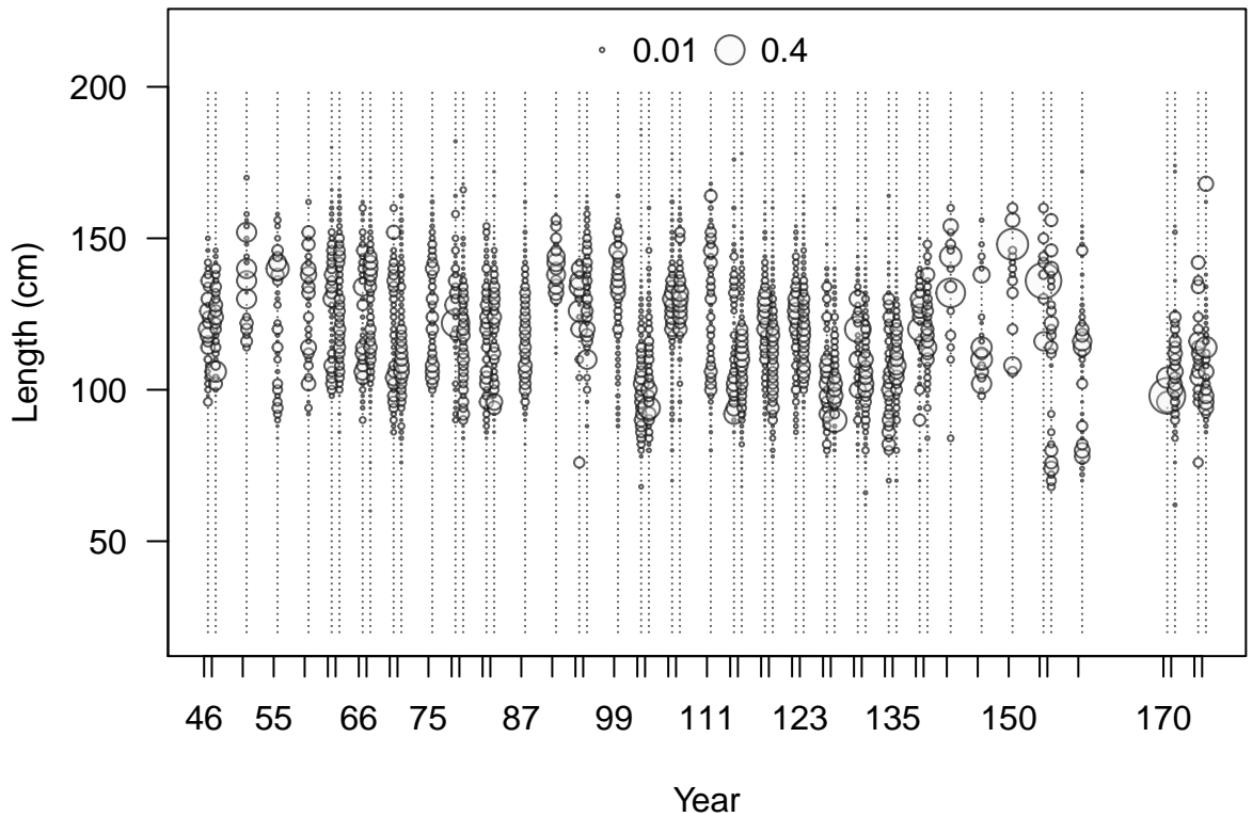




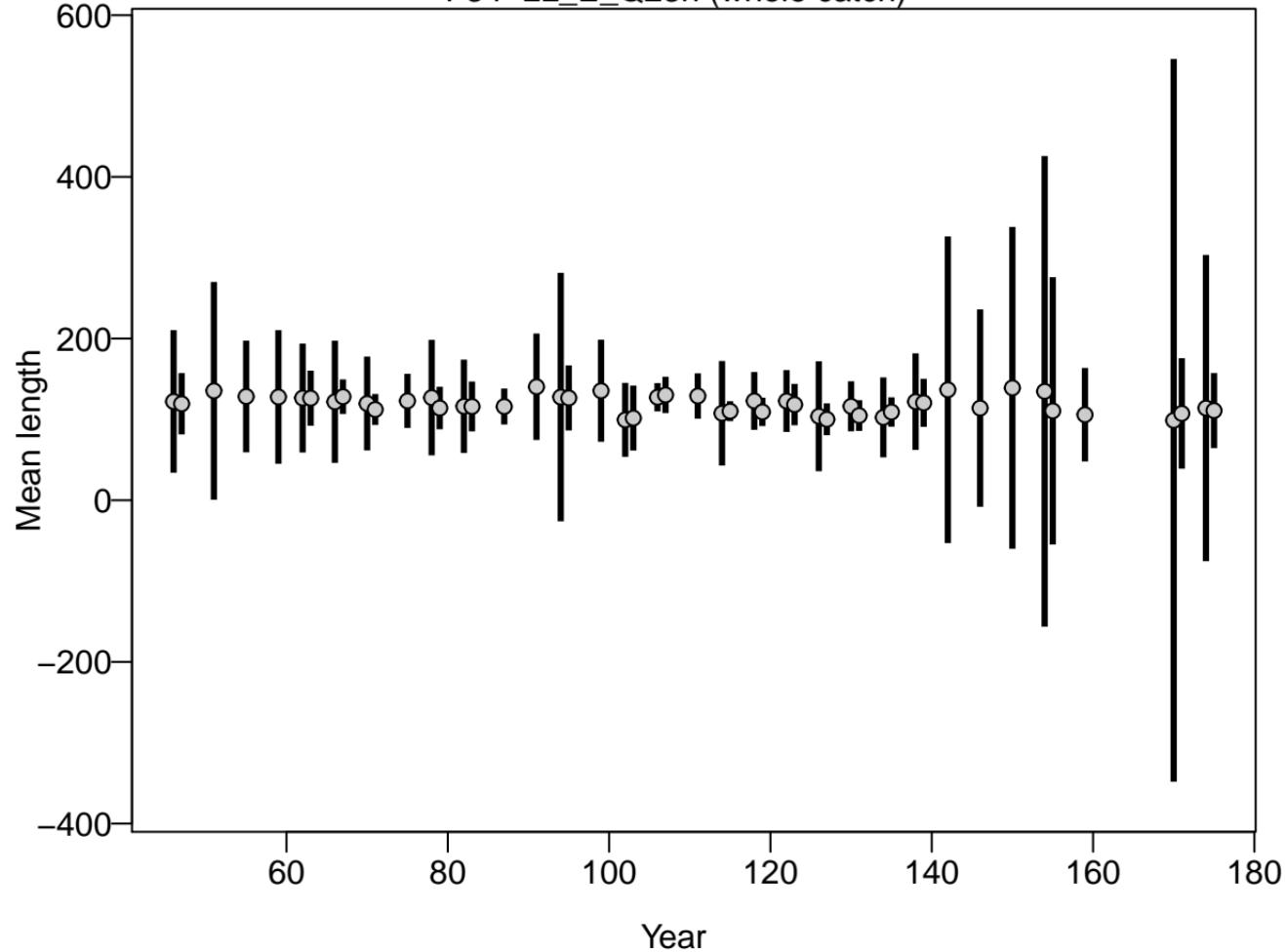
Proportion



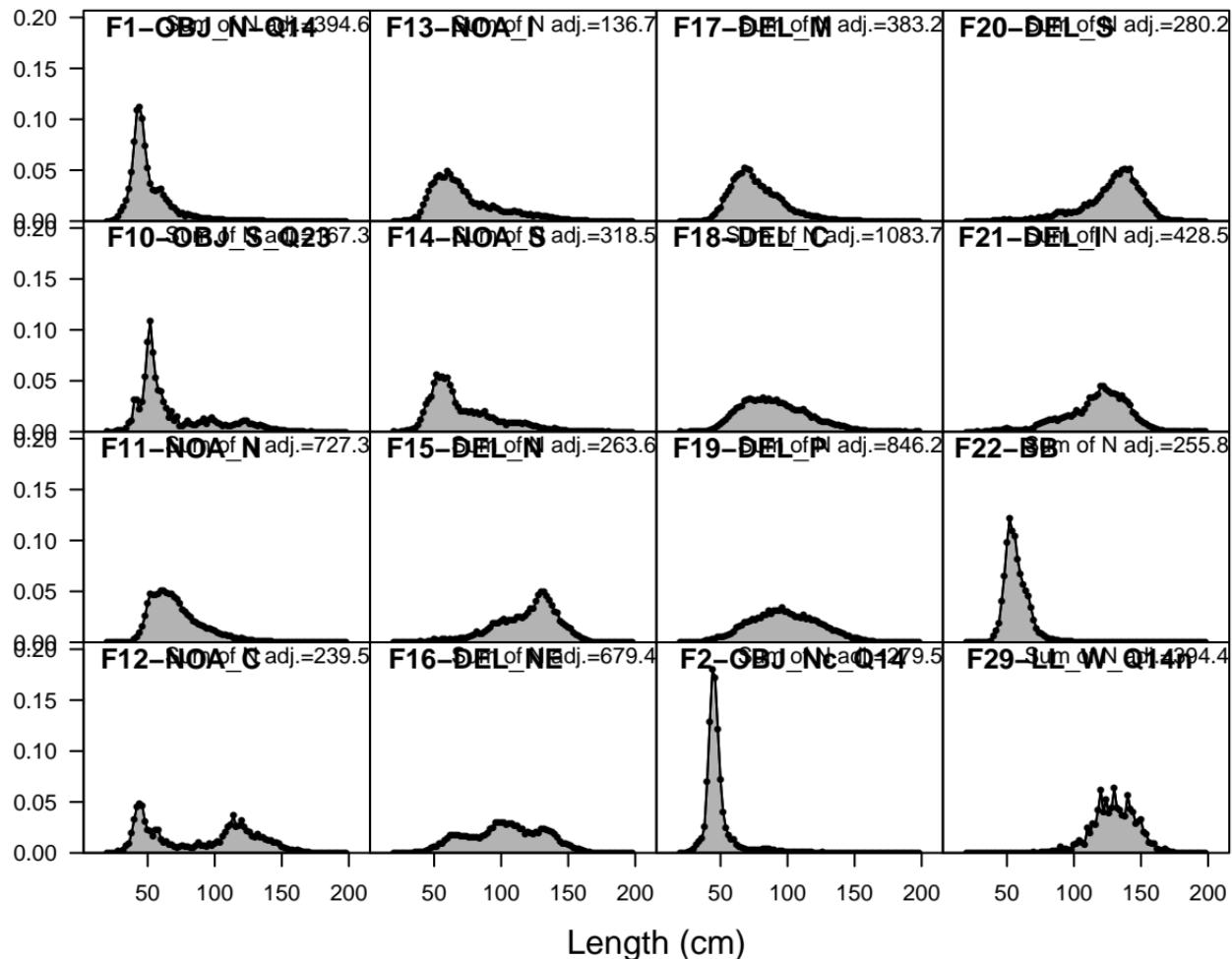
Length (cm)

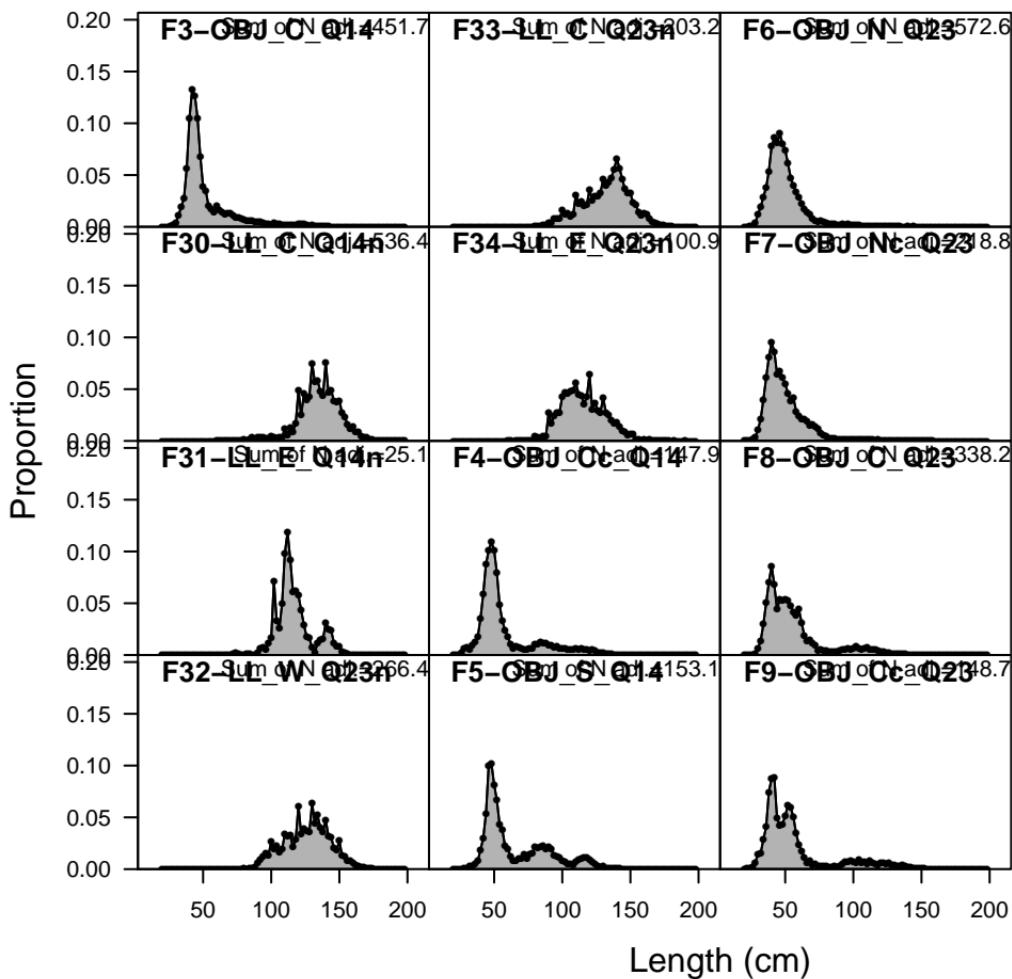


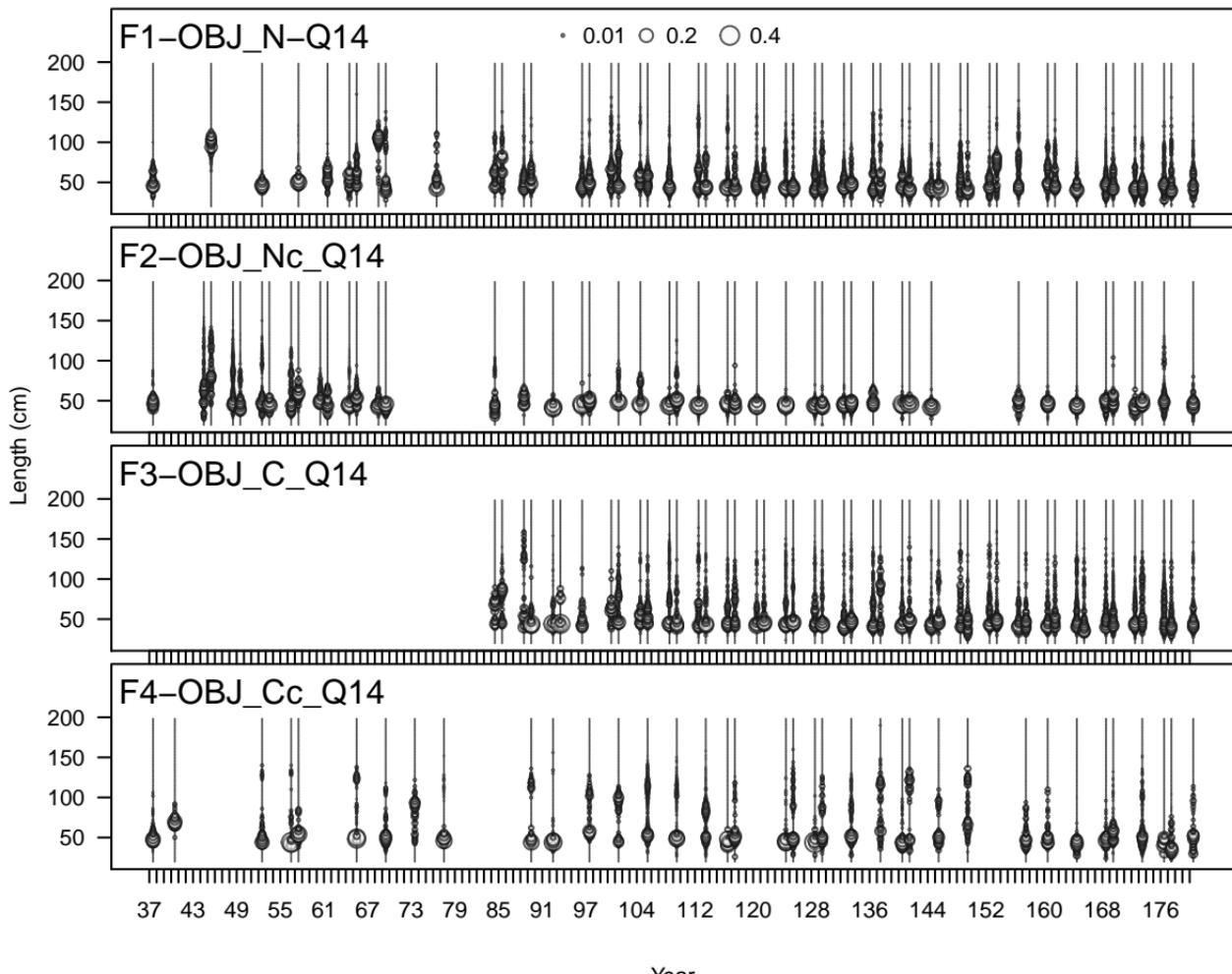
# F34-LL\_E\_Q23n (whole catch)

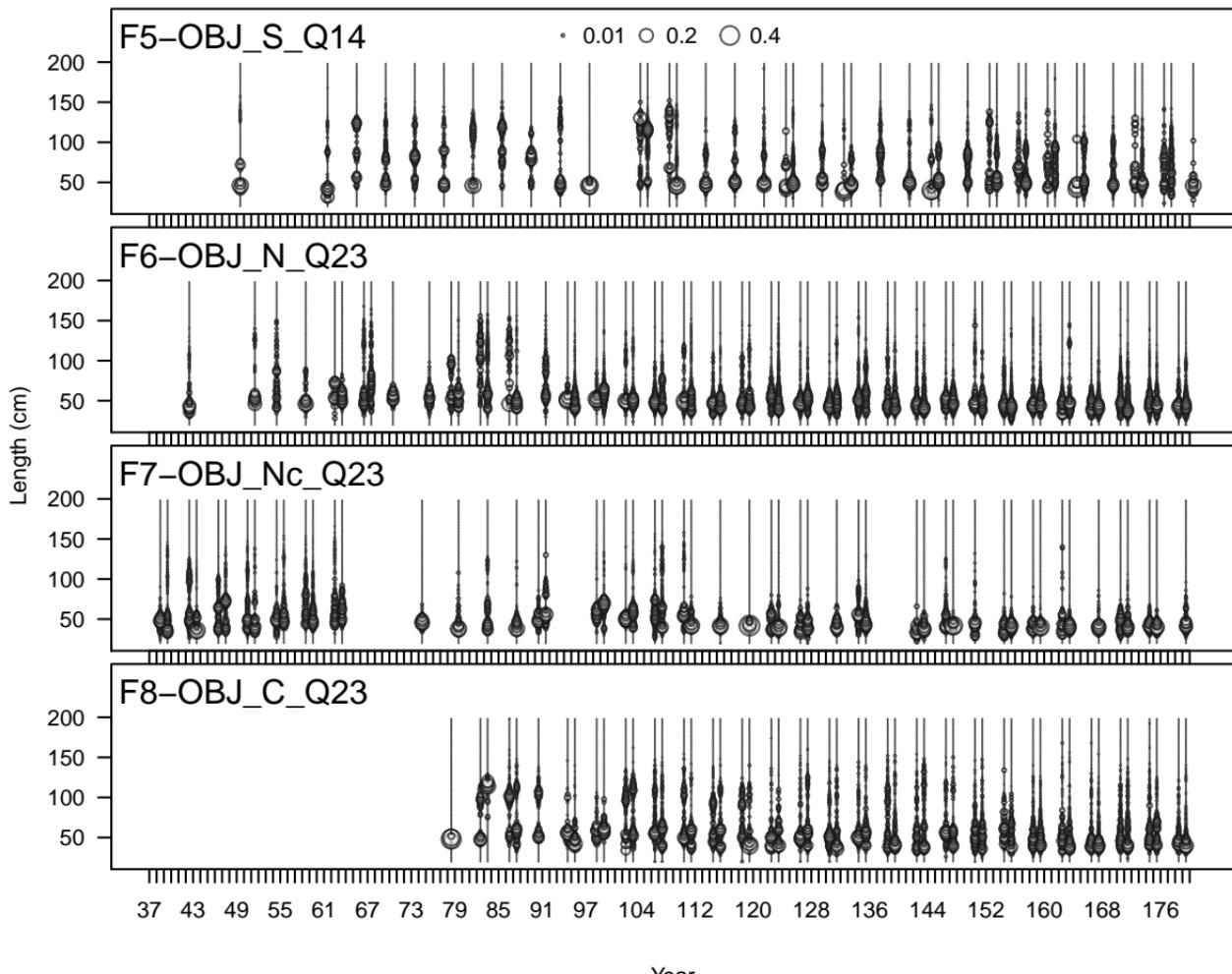


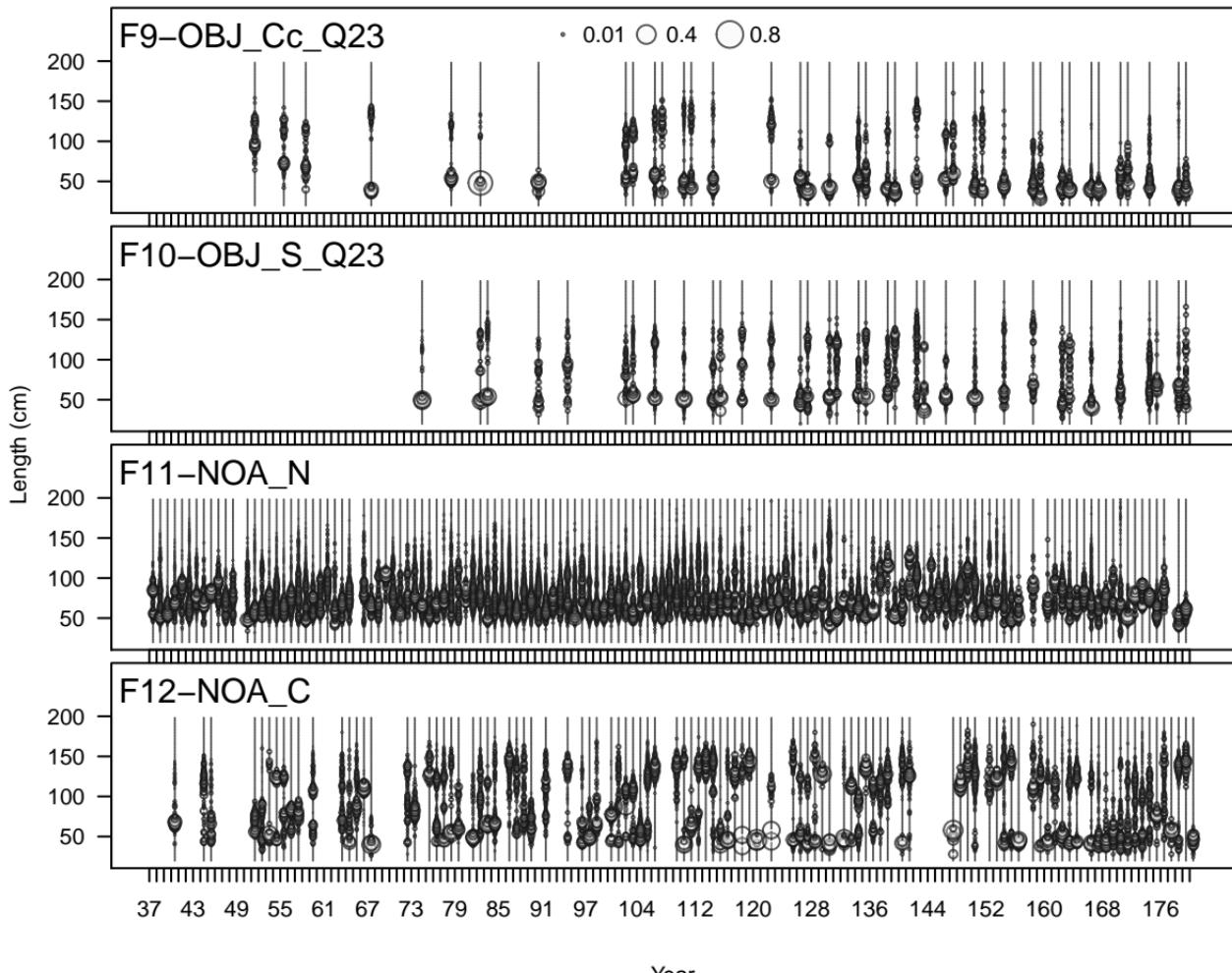
Proportion

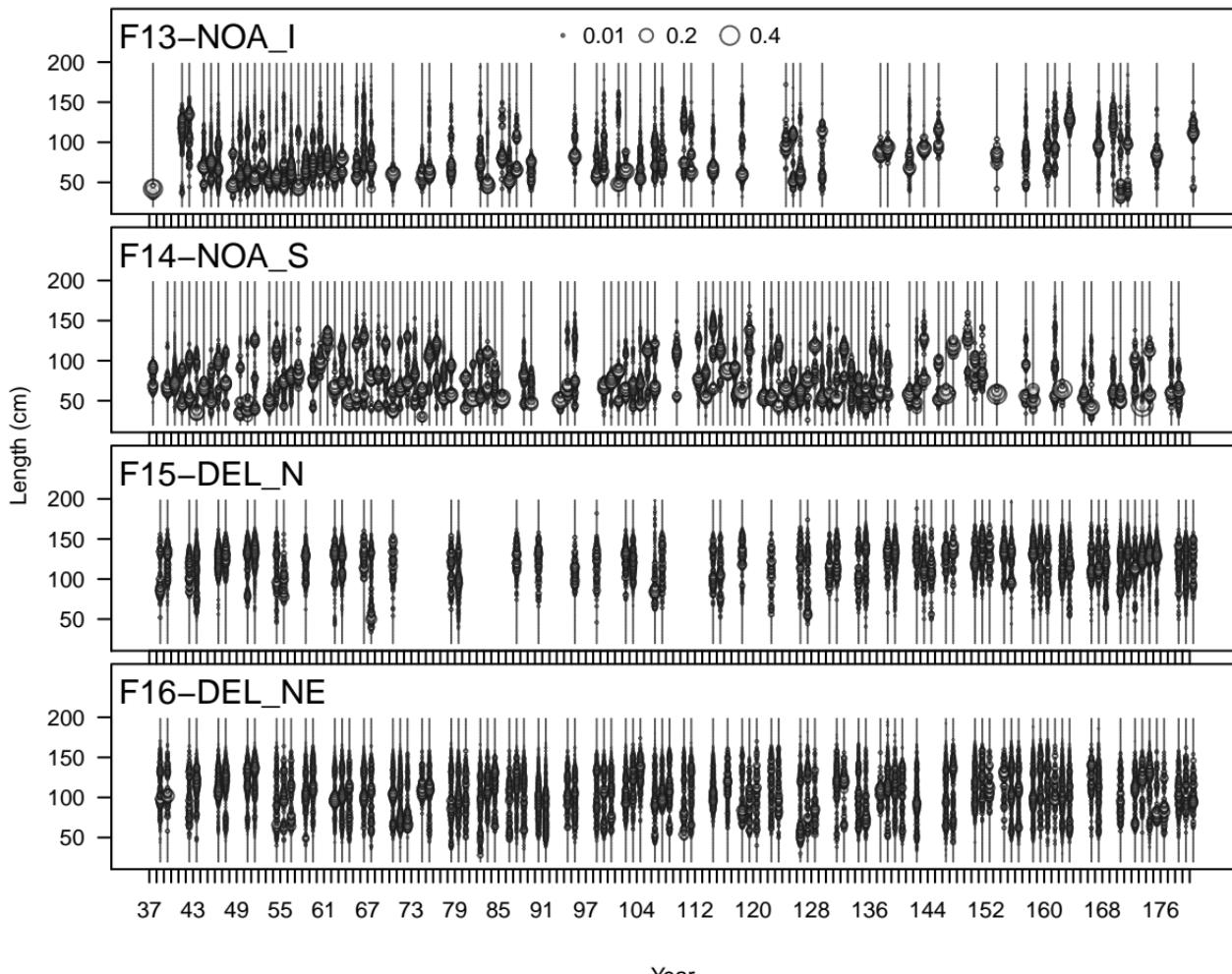


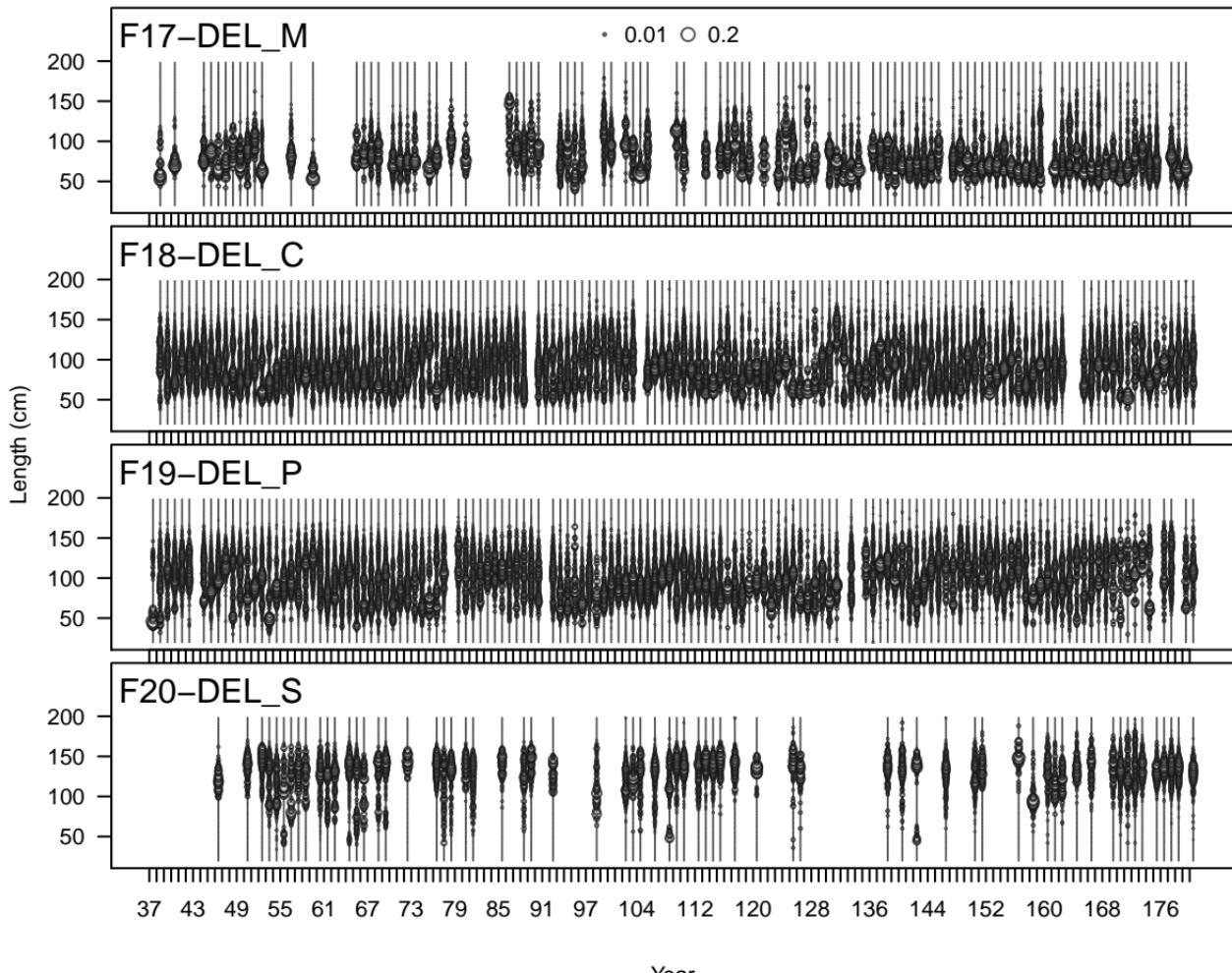


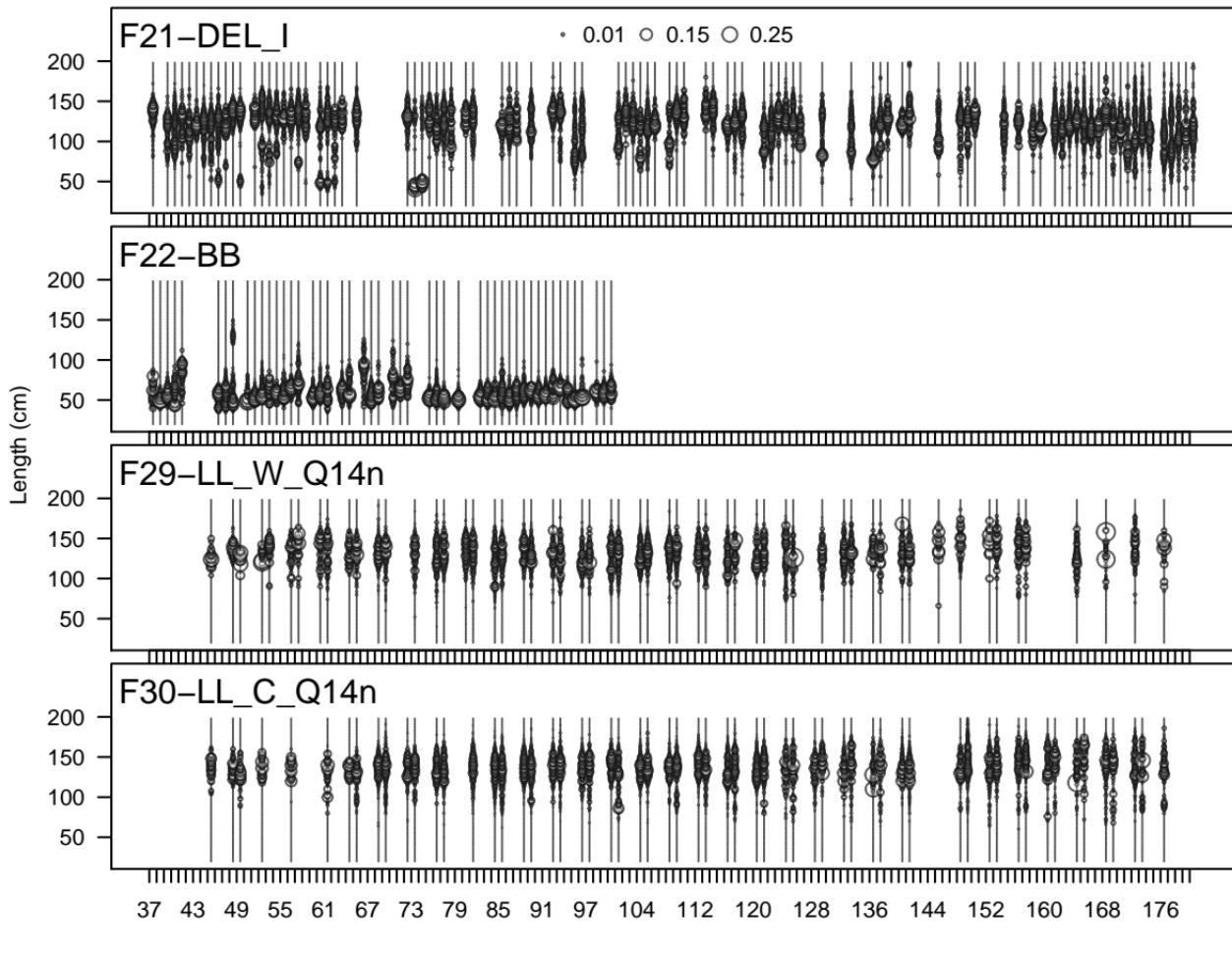


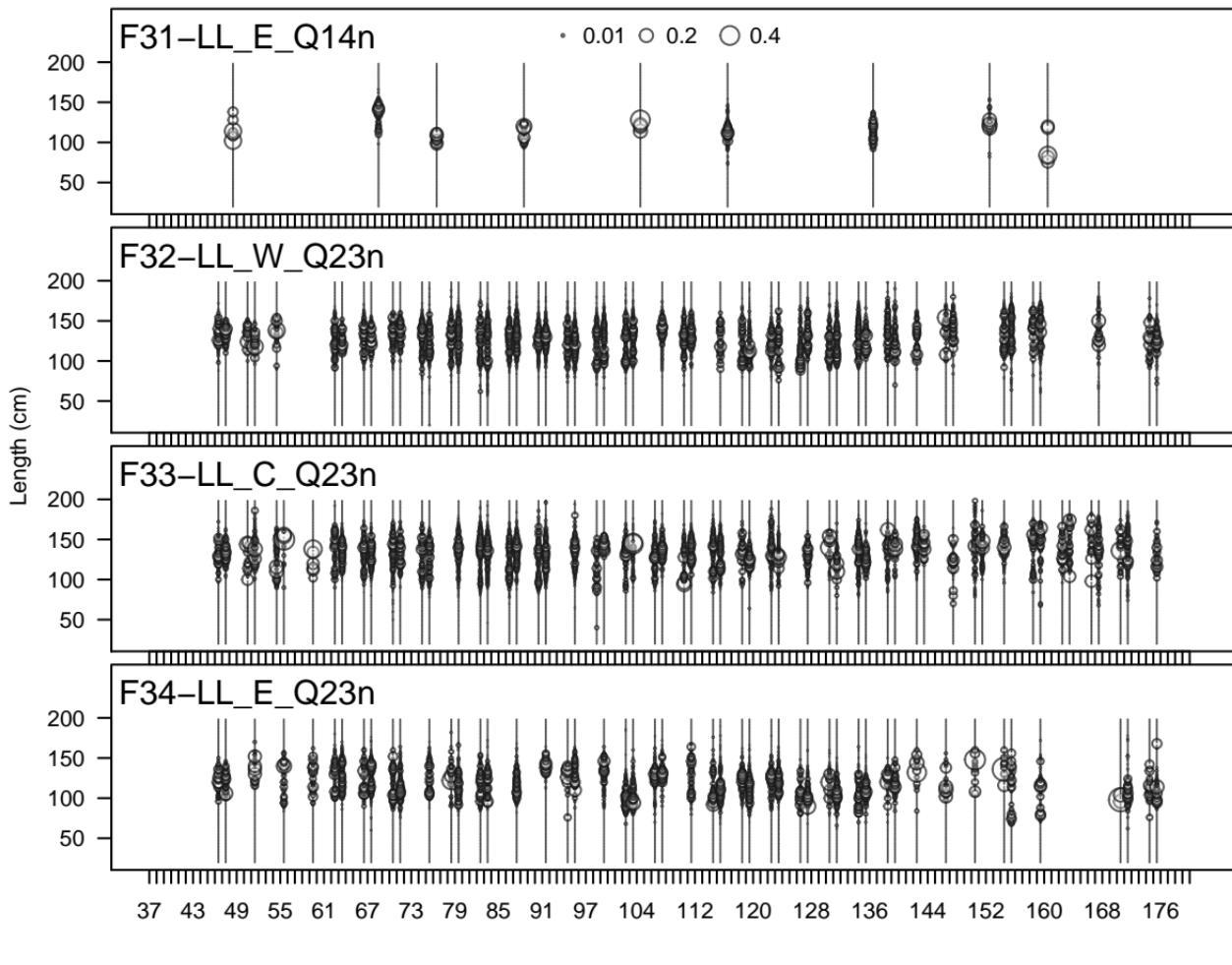




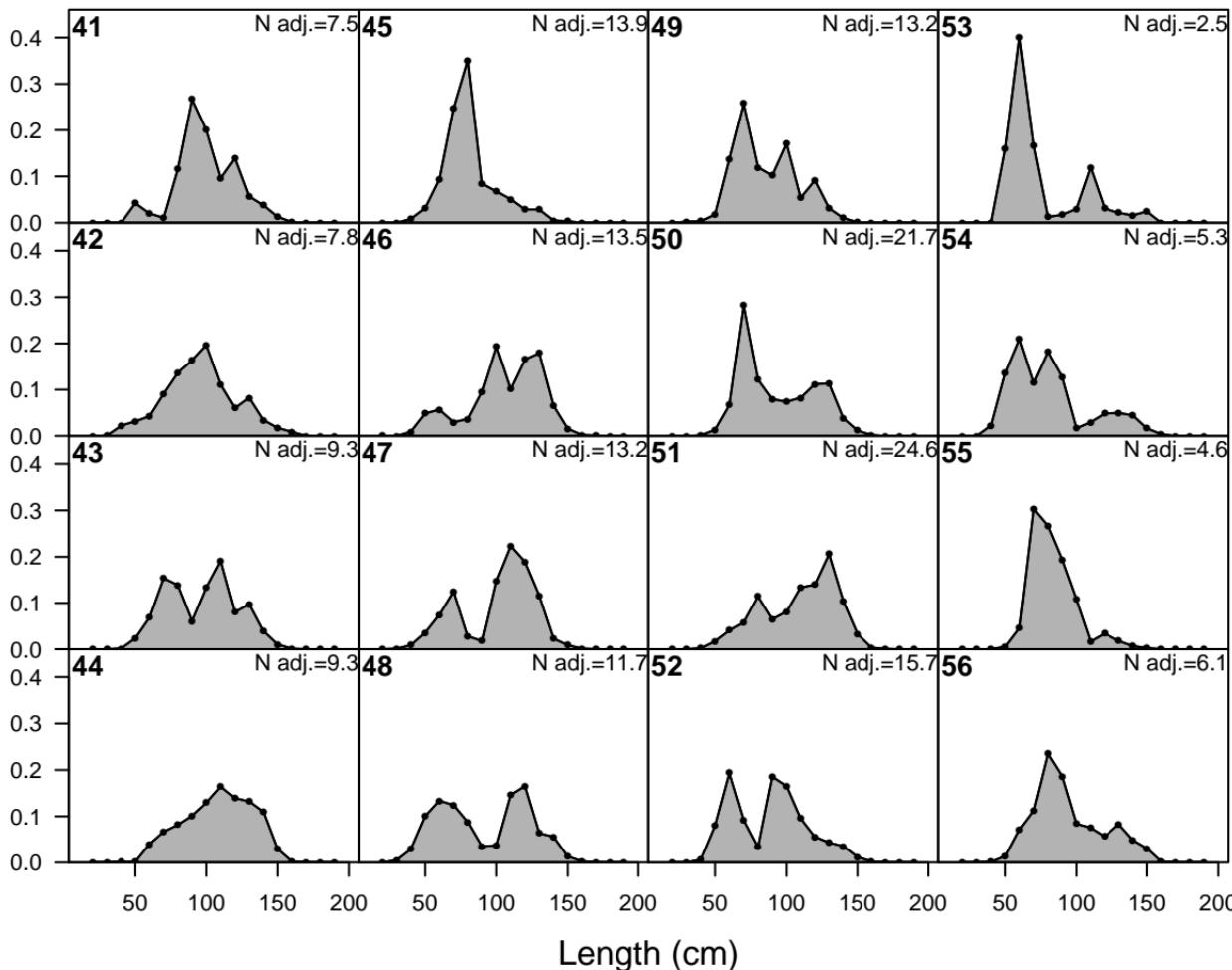




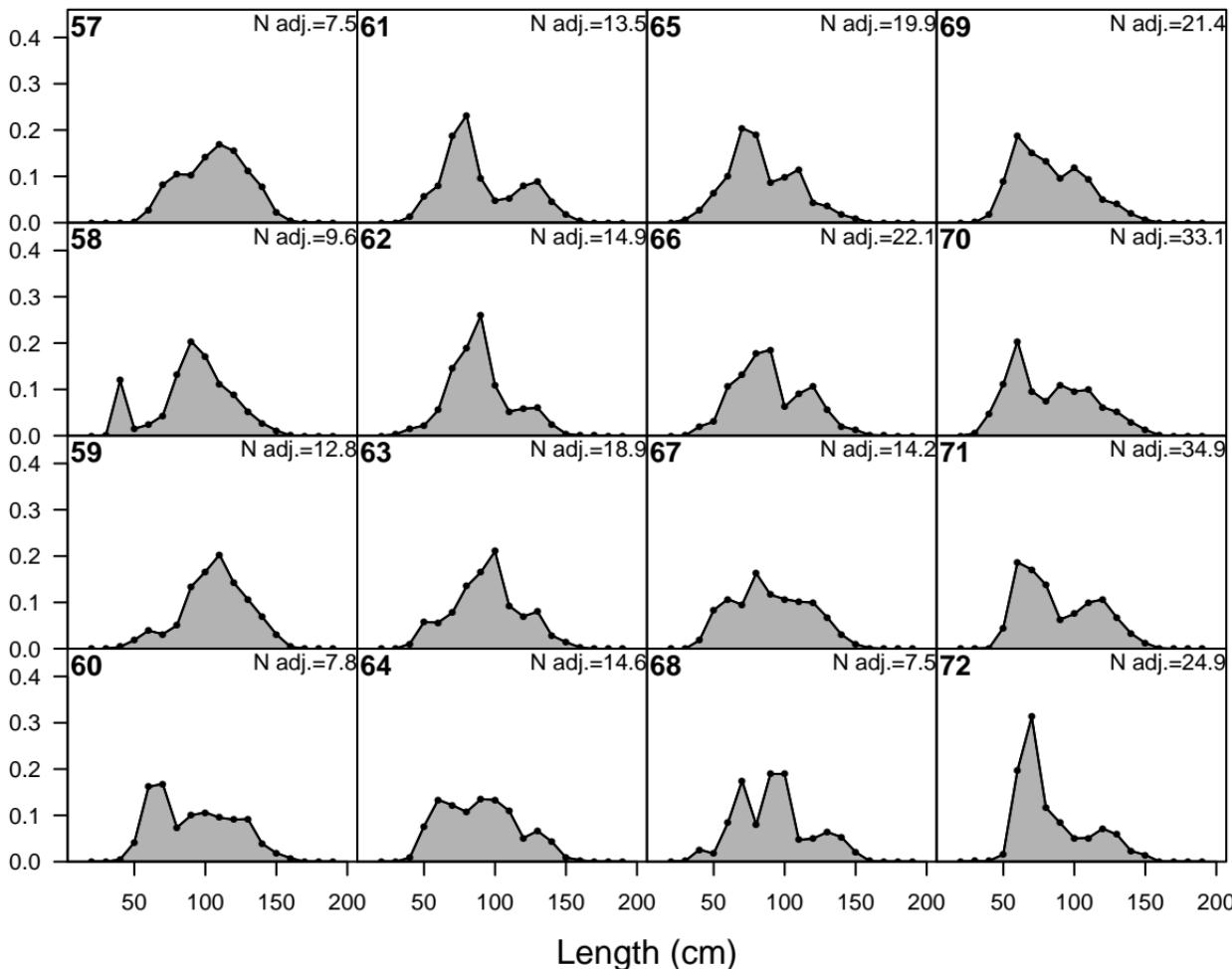




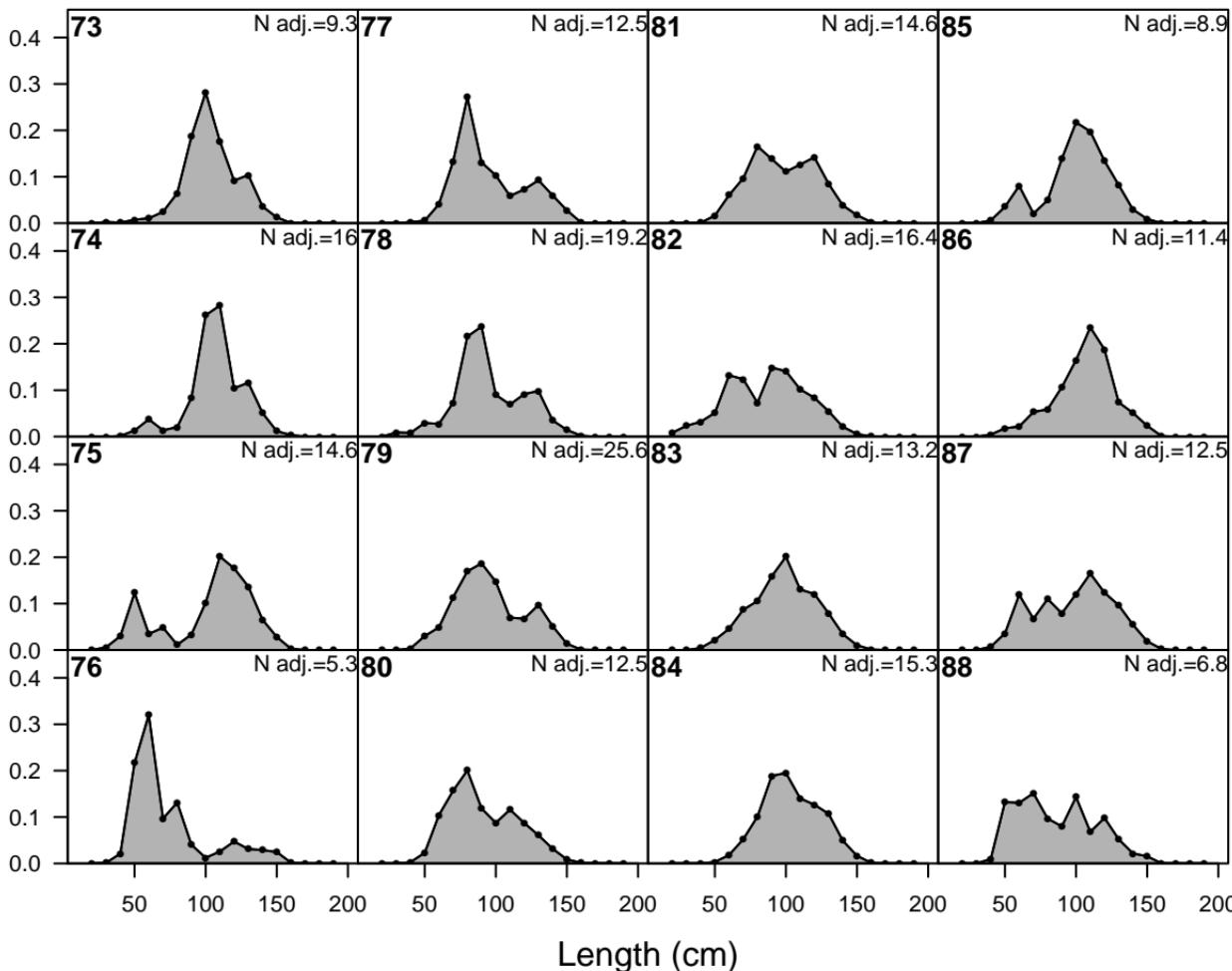
Proportion



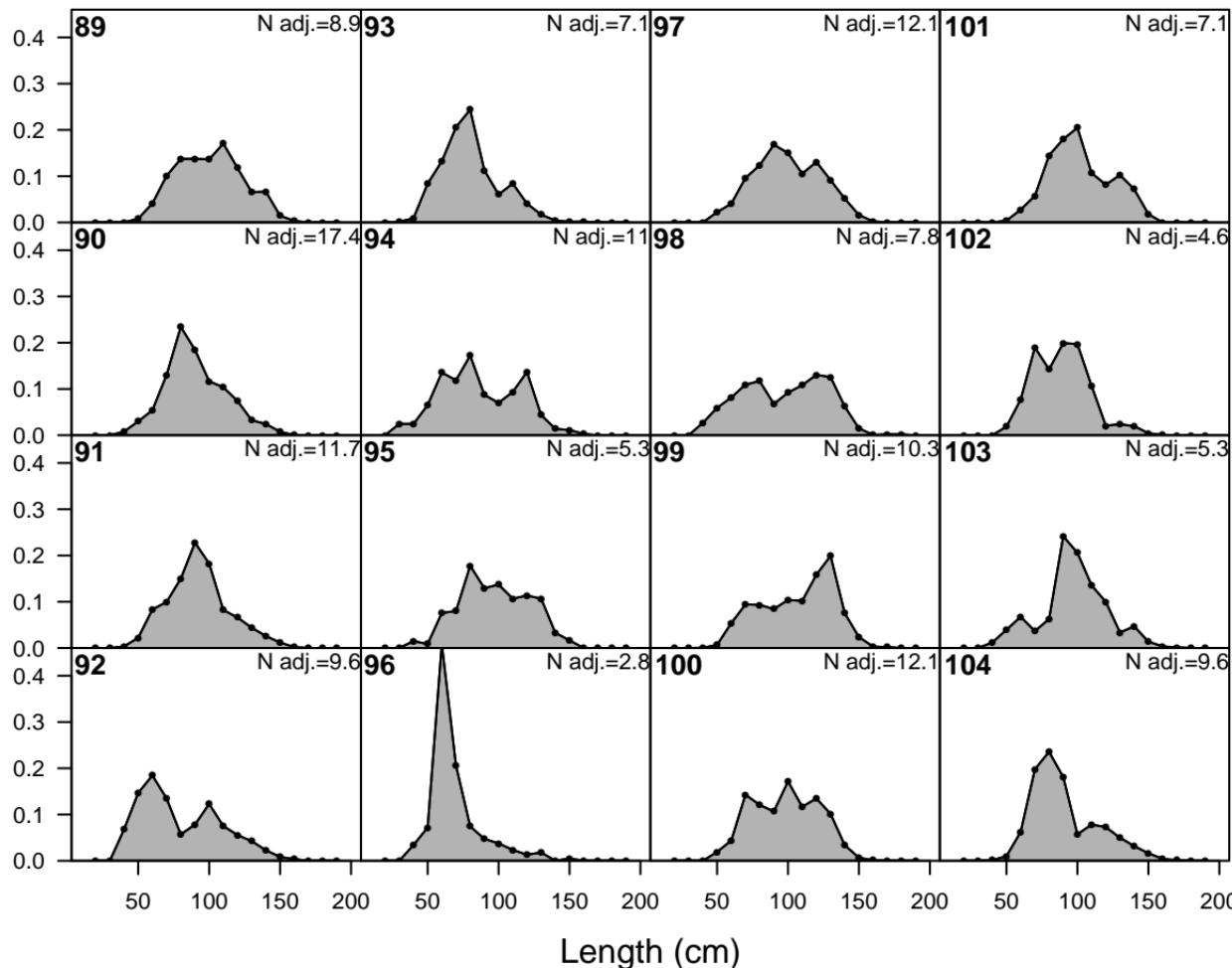
Proportion



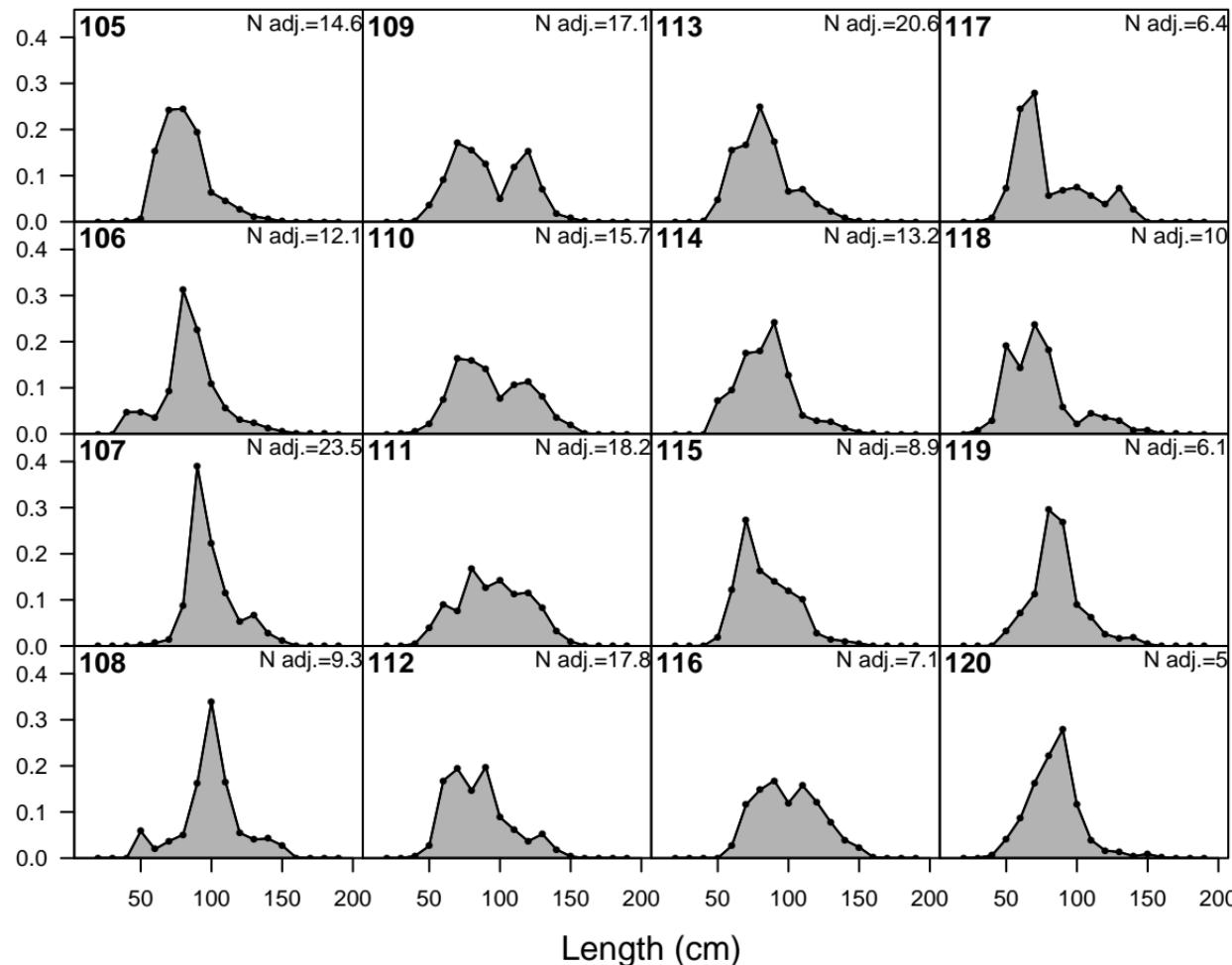
Proportion



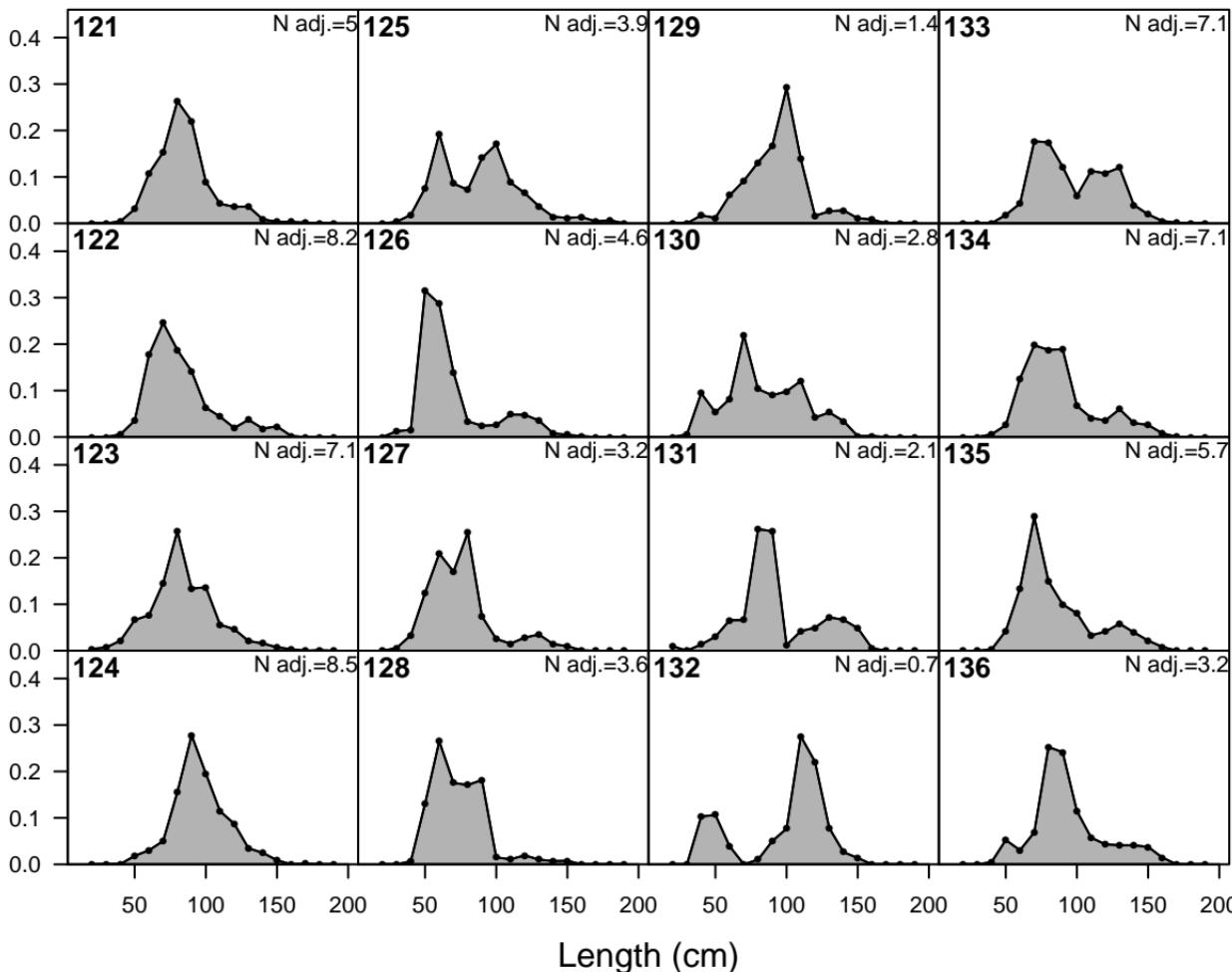
Proportion



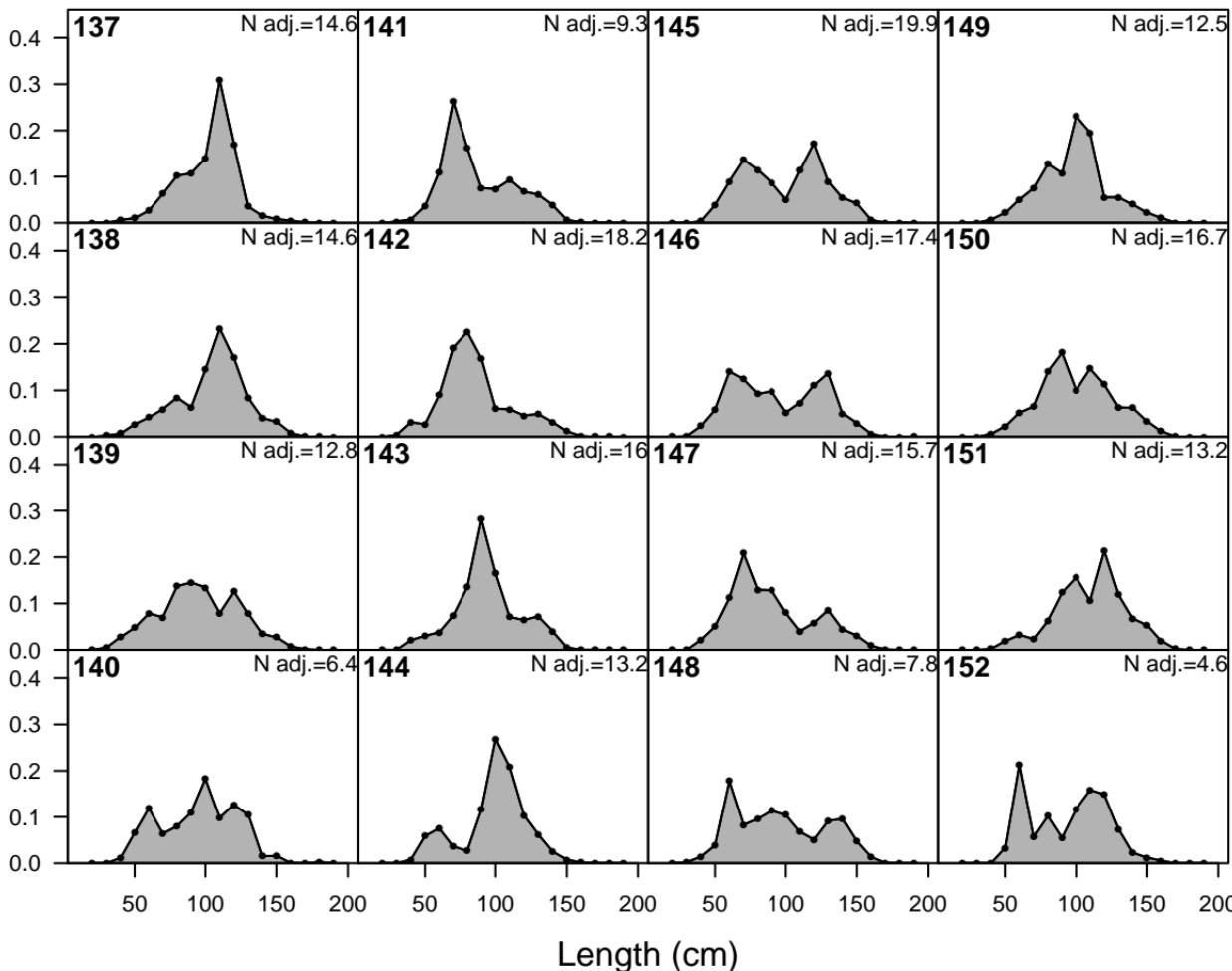
Proportion



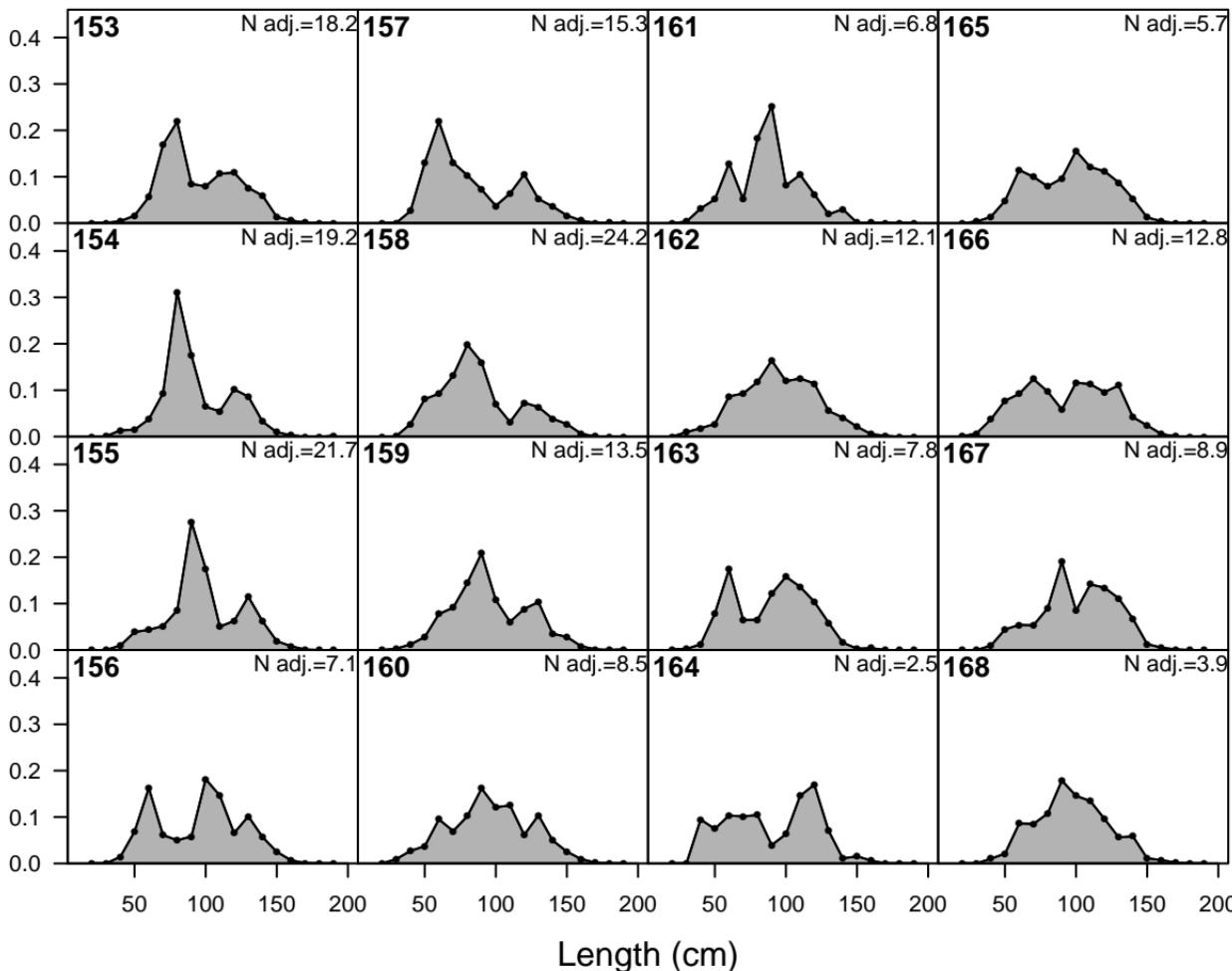
Proportion



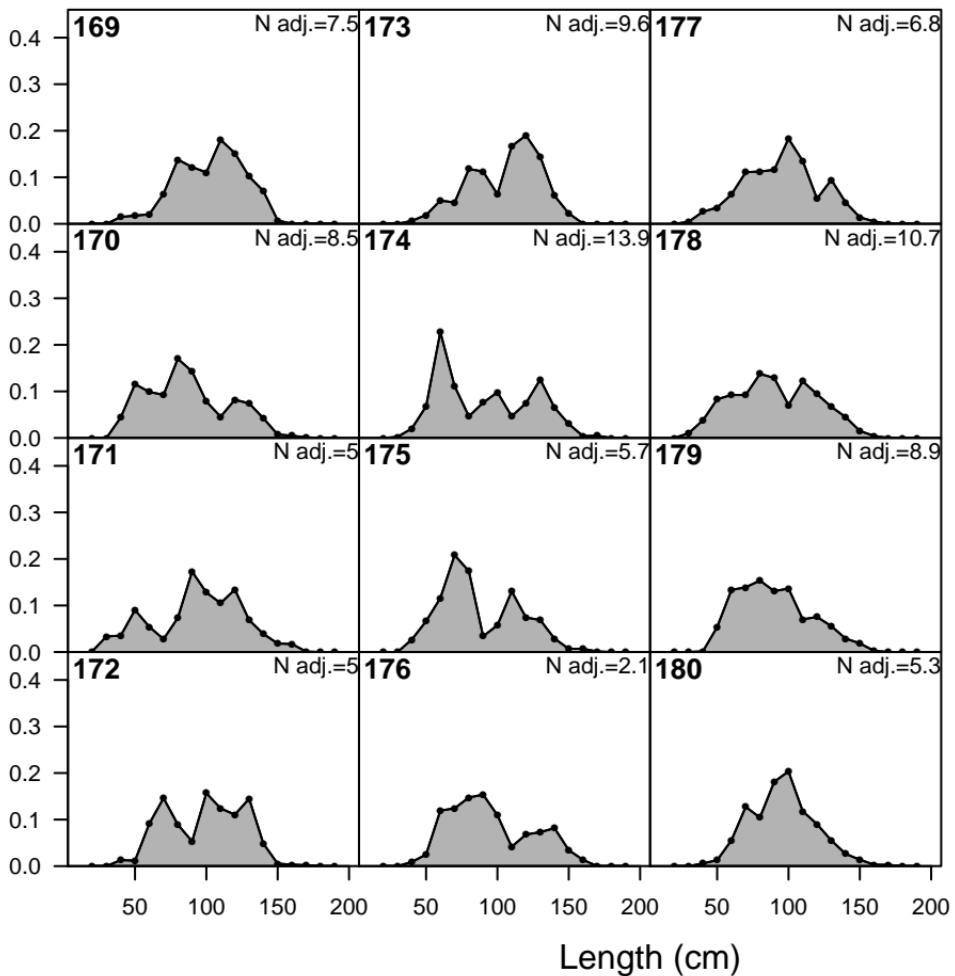
Proportion

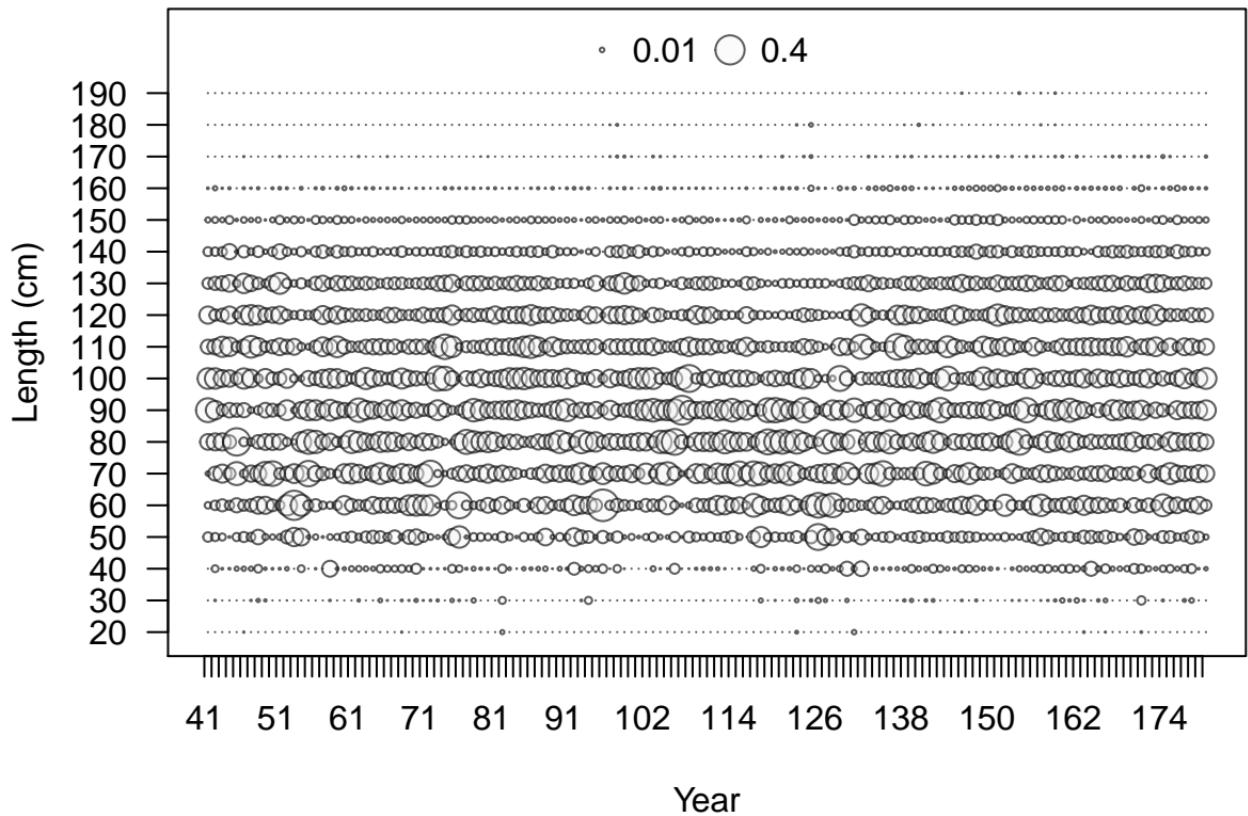


Proportion

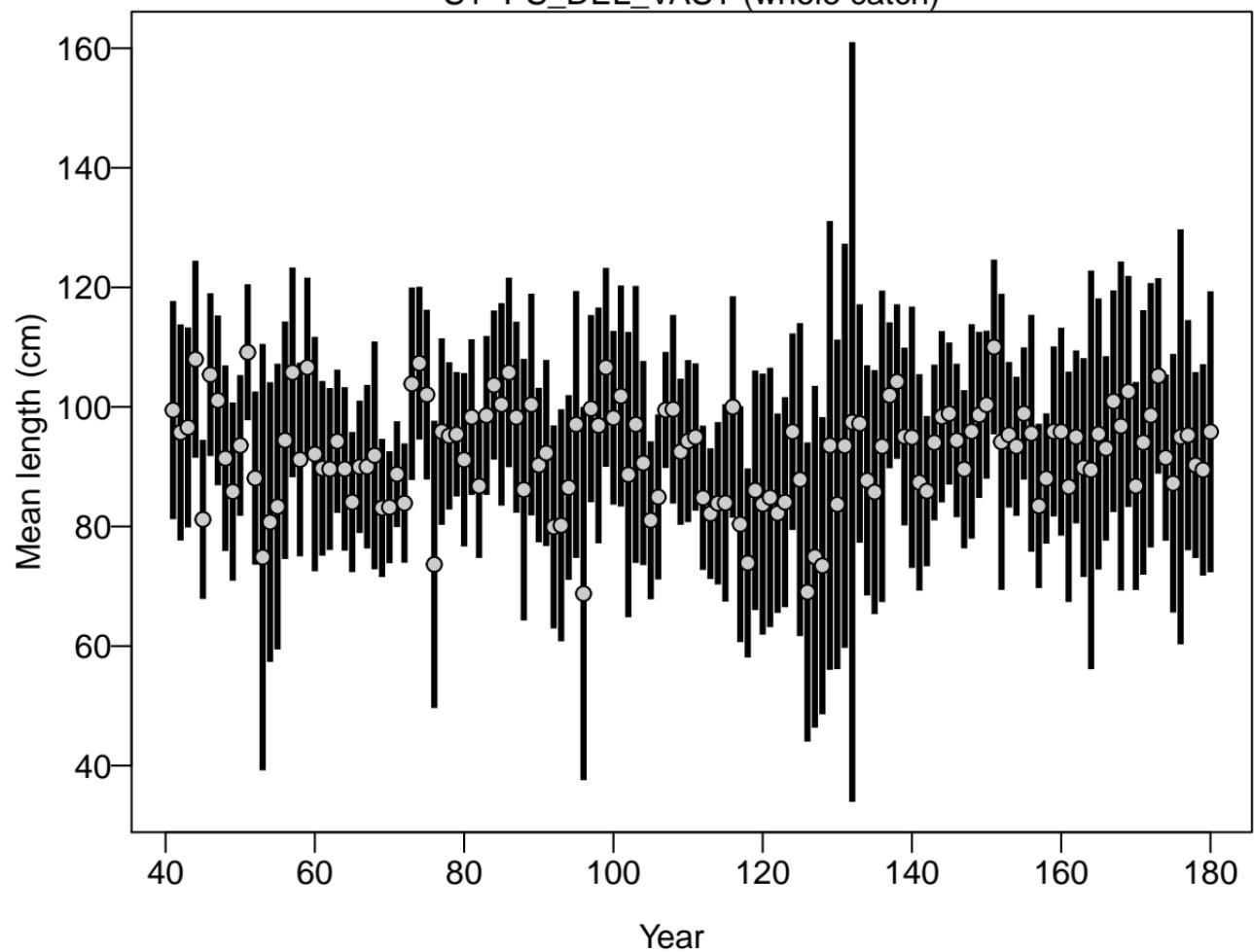


Proportion





# S1-PS\_DEL\_VAST (whole catch)



# S1-PS\_DEL\_VAST

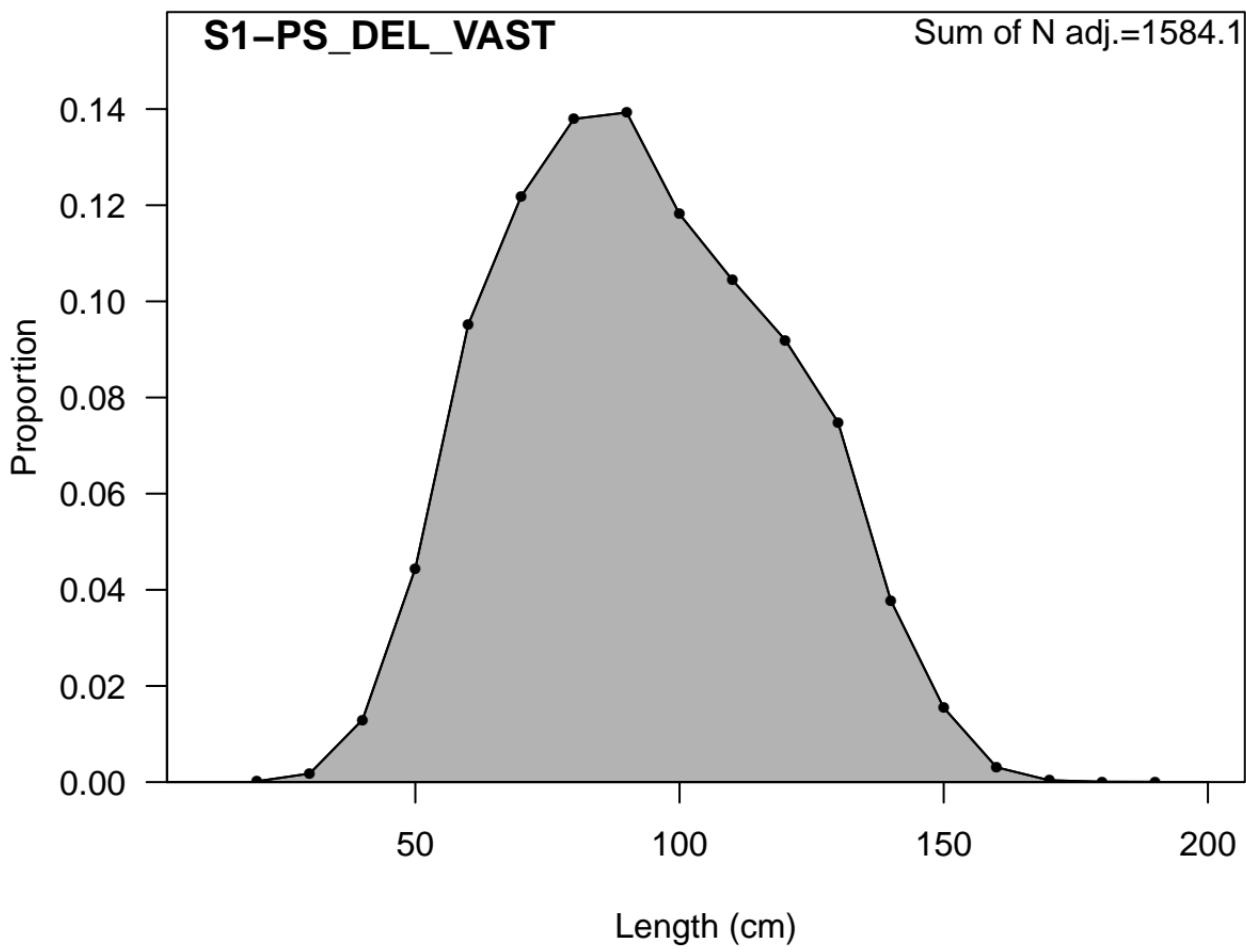
Sum of N adj.=1584.1

Proportion

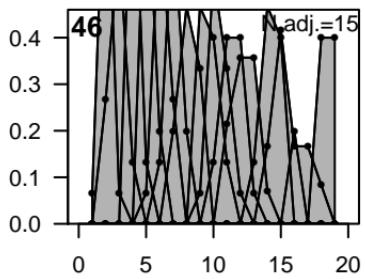
0.14  
0.12  
0.10  
0.08  
0.06  
0.04  
0.02  
0.00

50 100 150 200

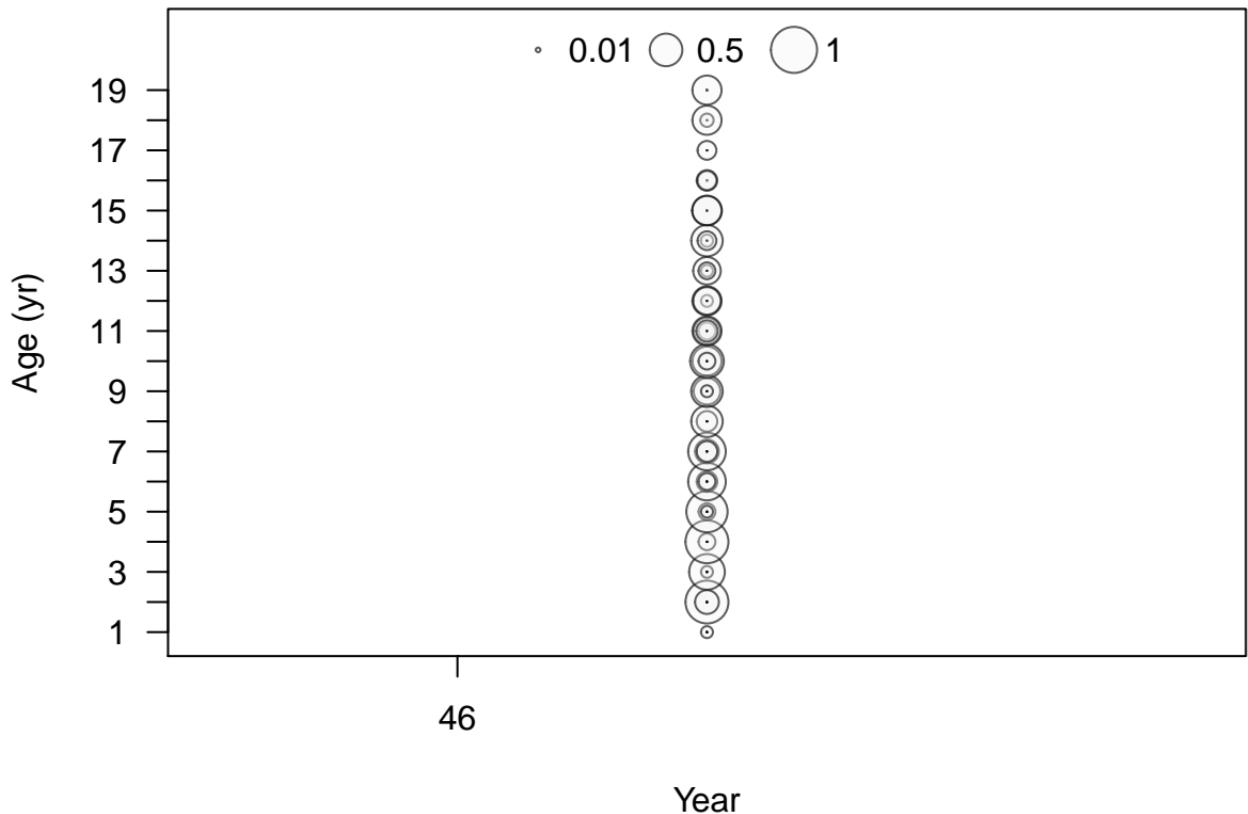
Length (cm)

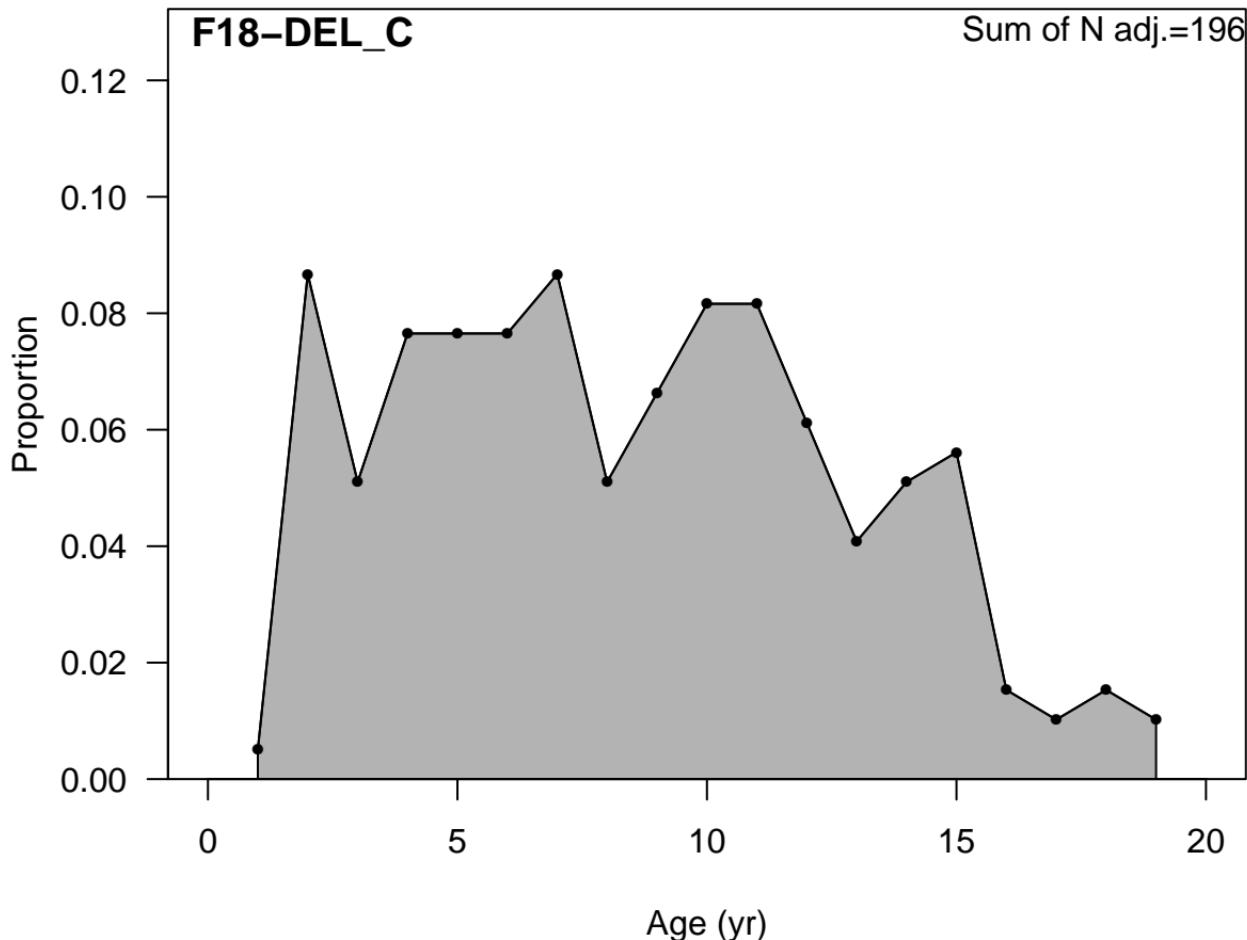


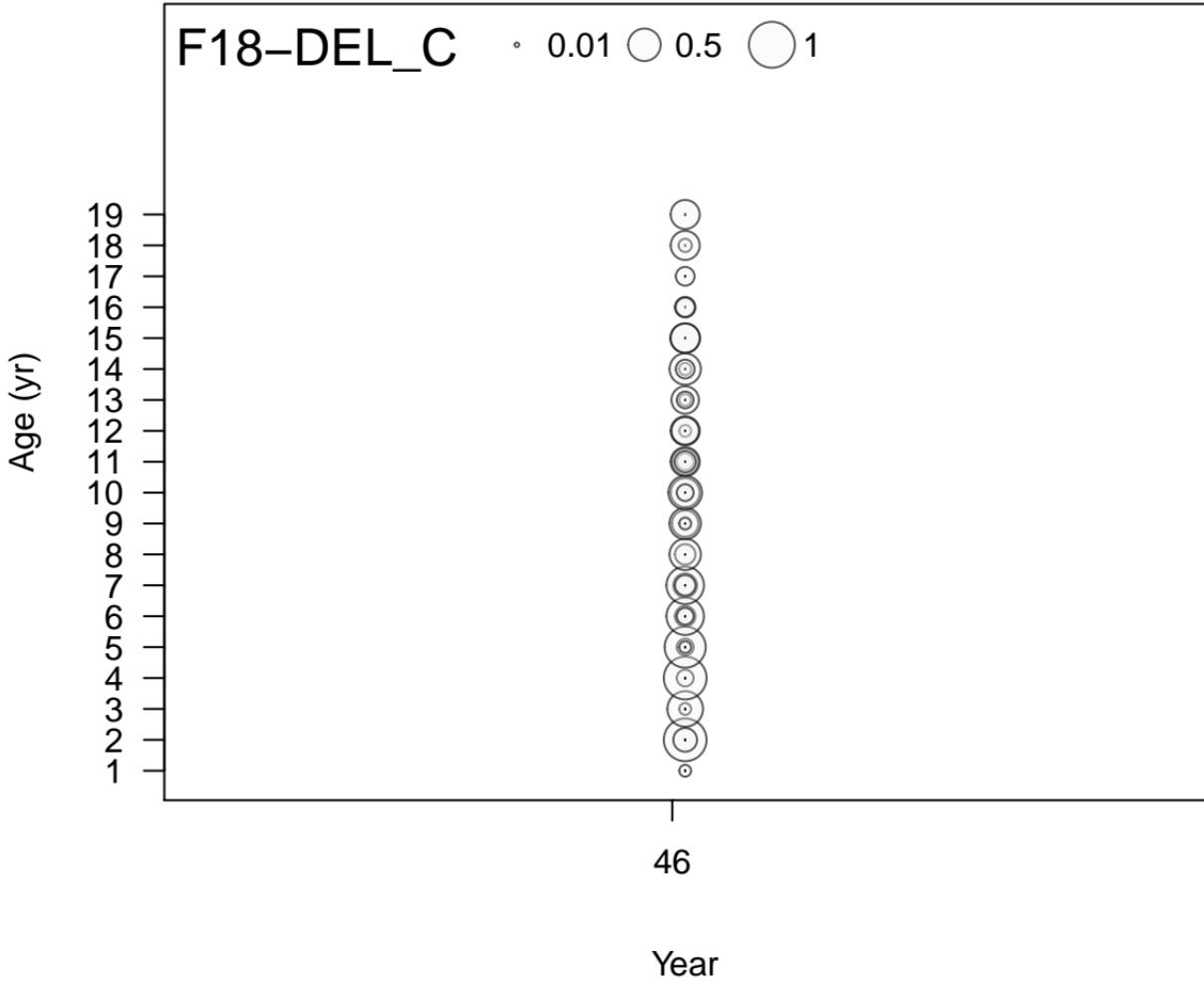
Proportion



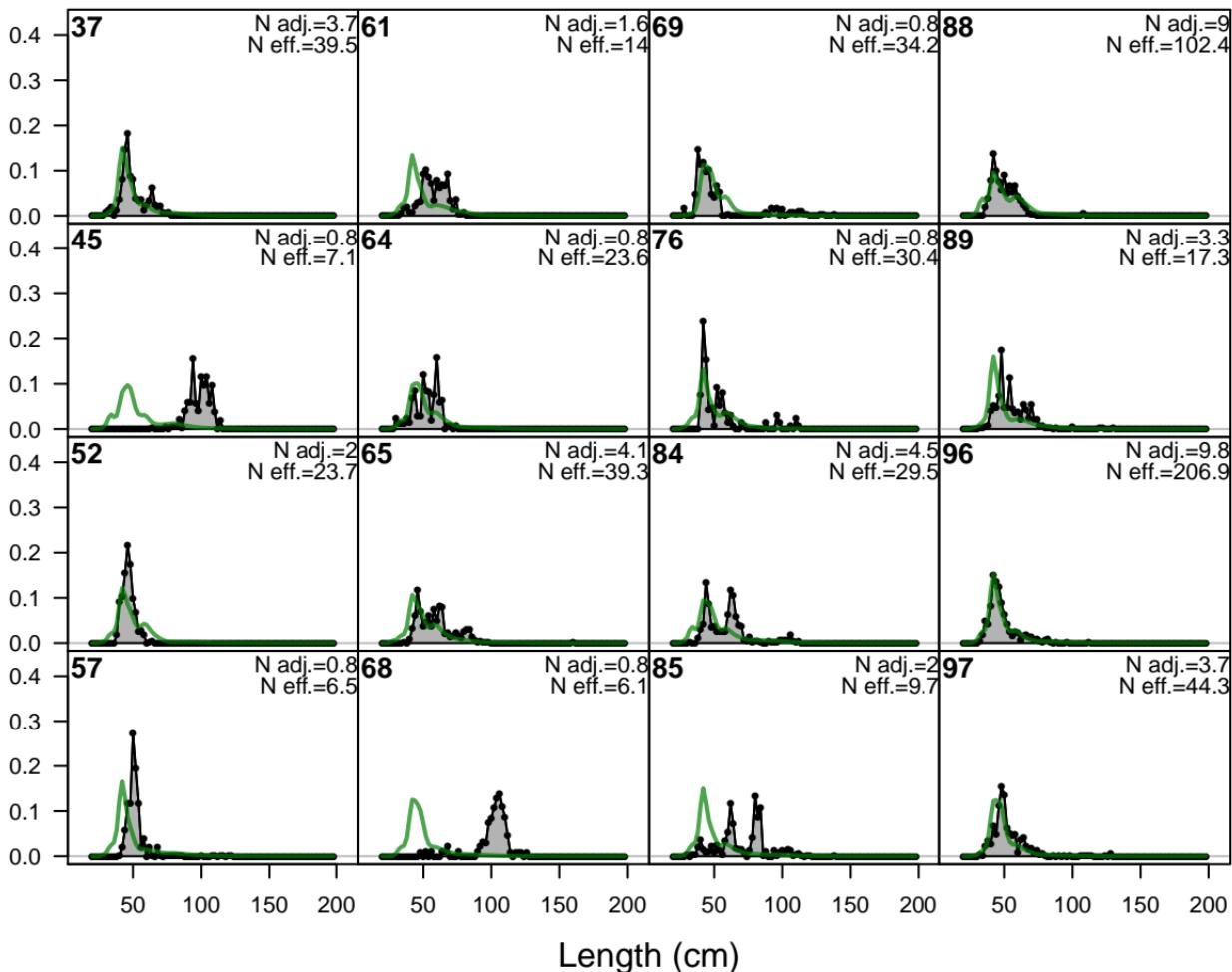
Age (yr)



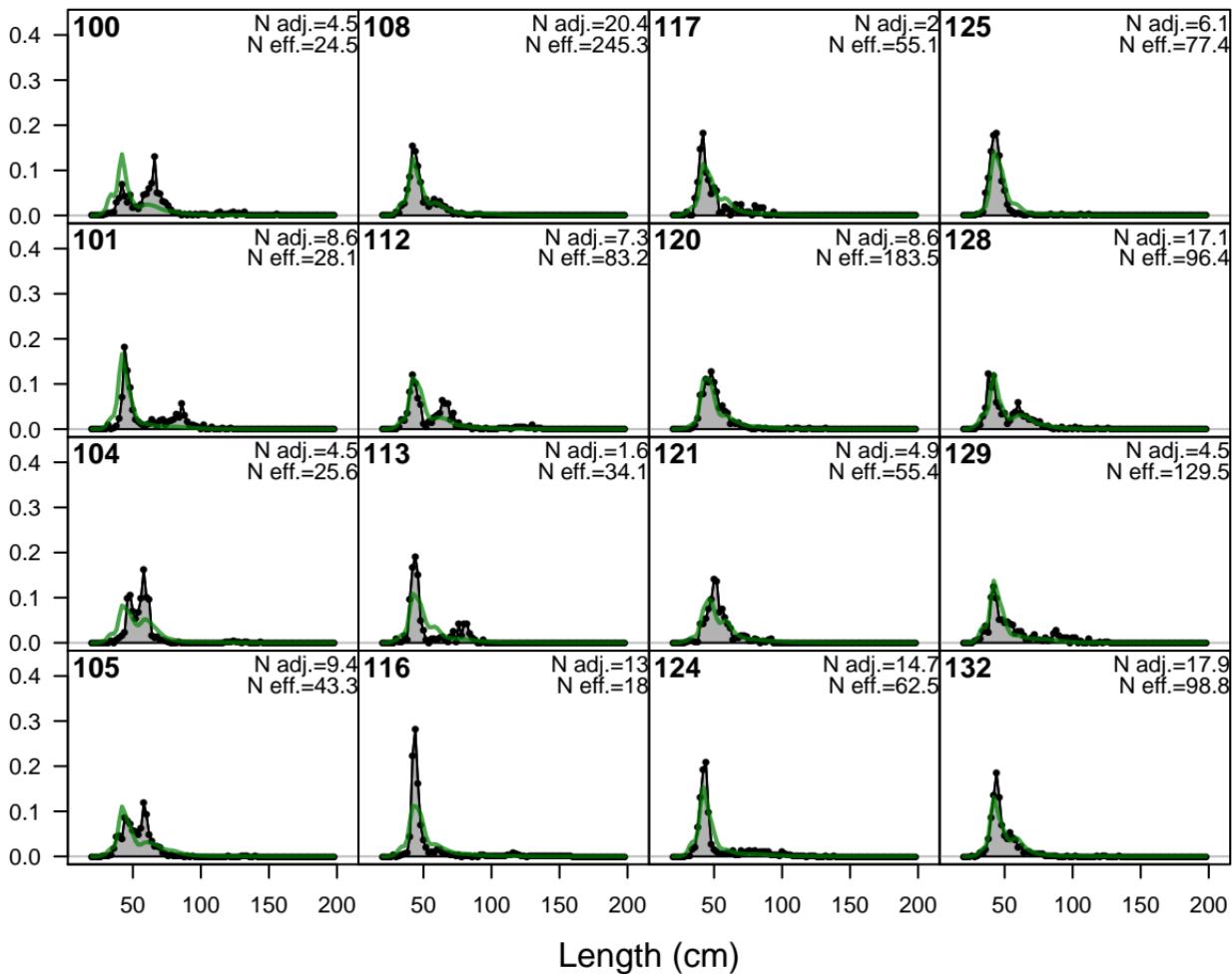




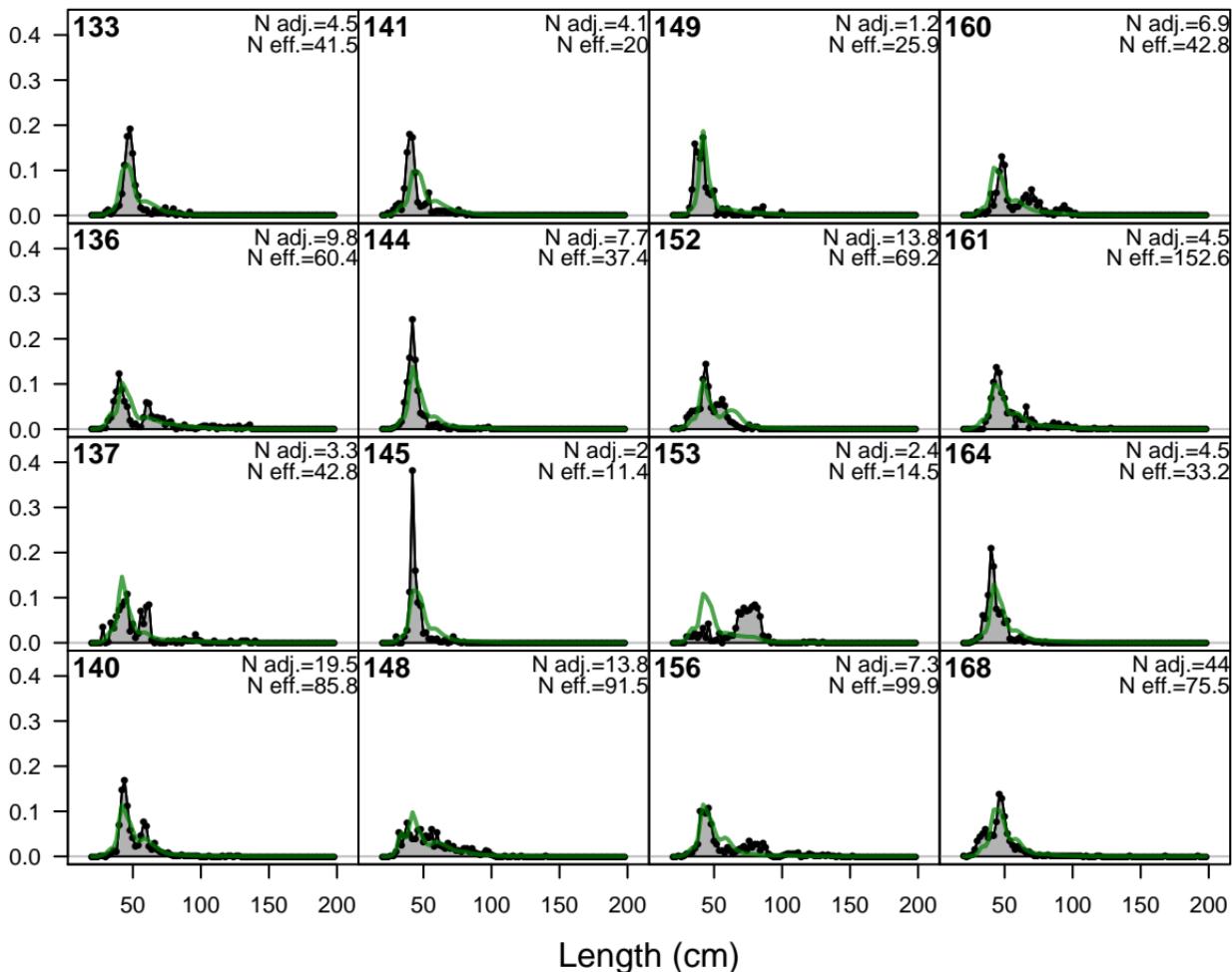
Proportion



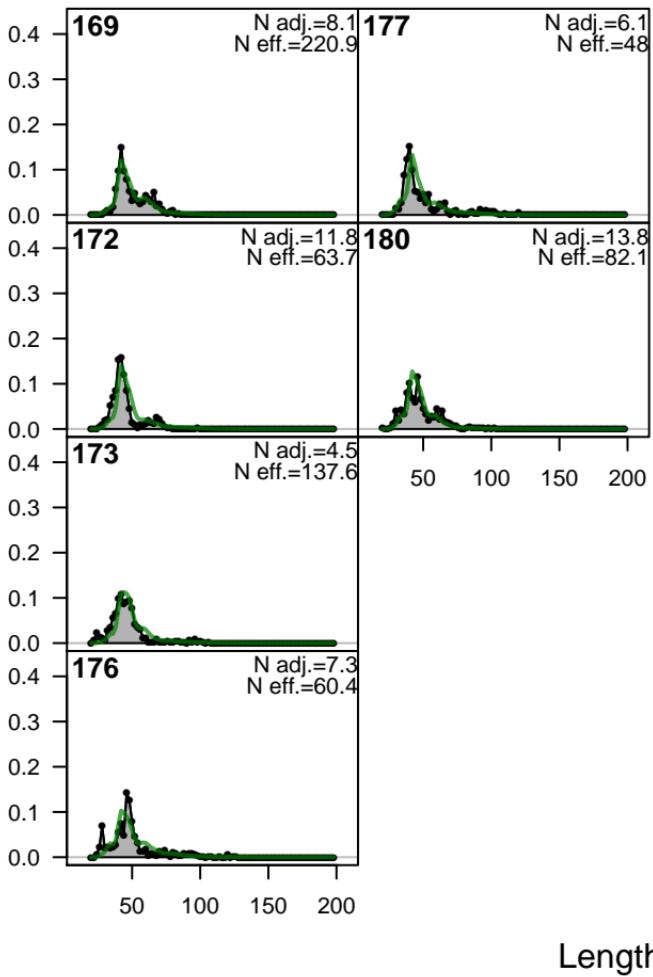
Proportion

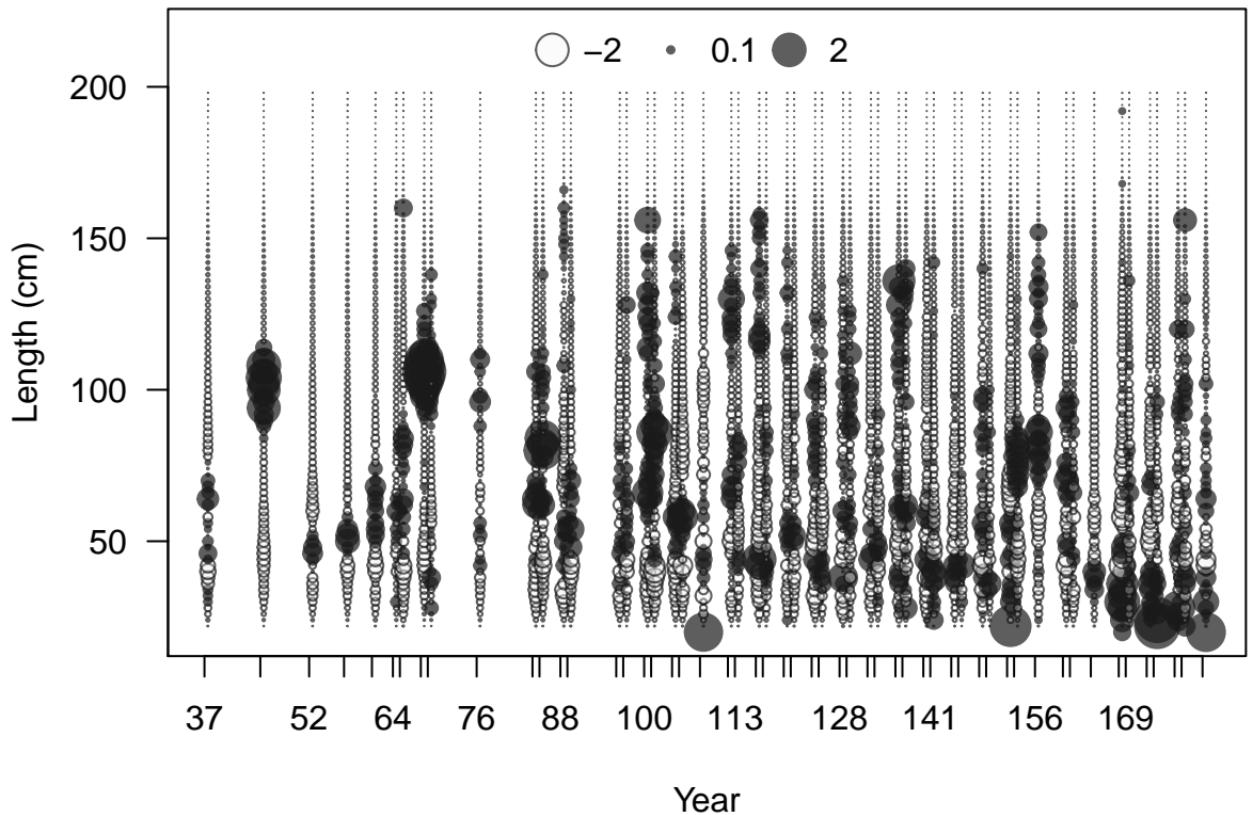


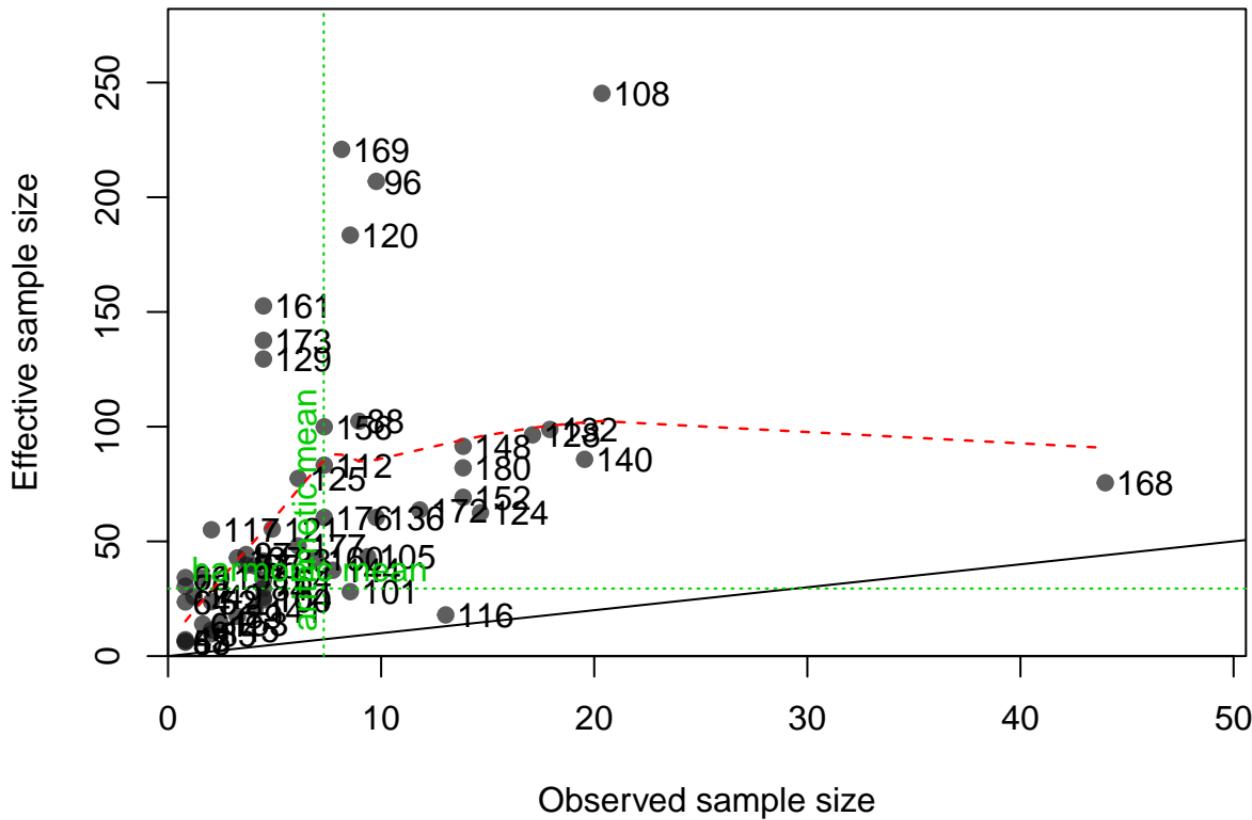
Proportion



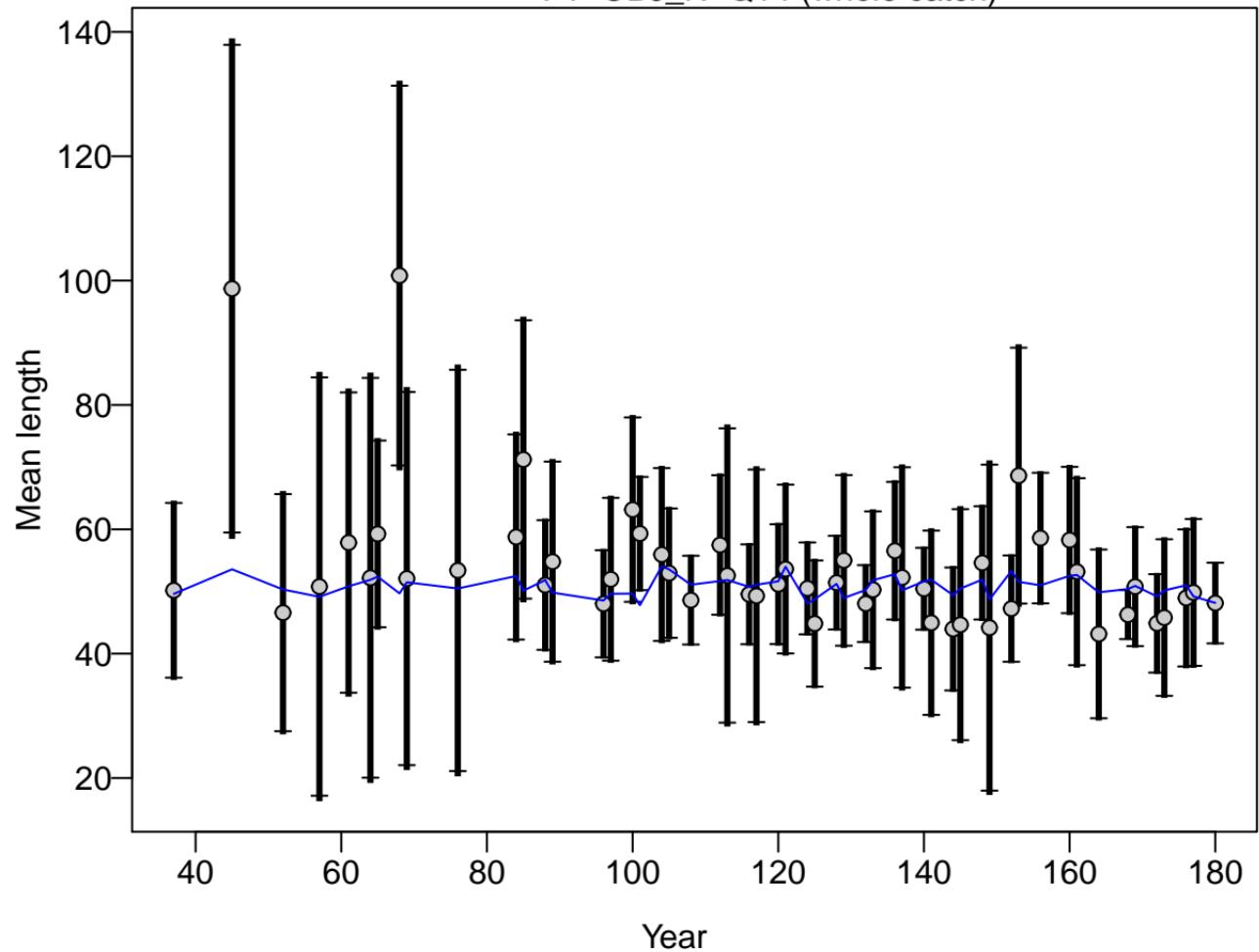
Proportion



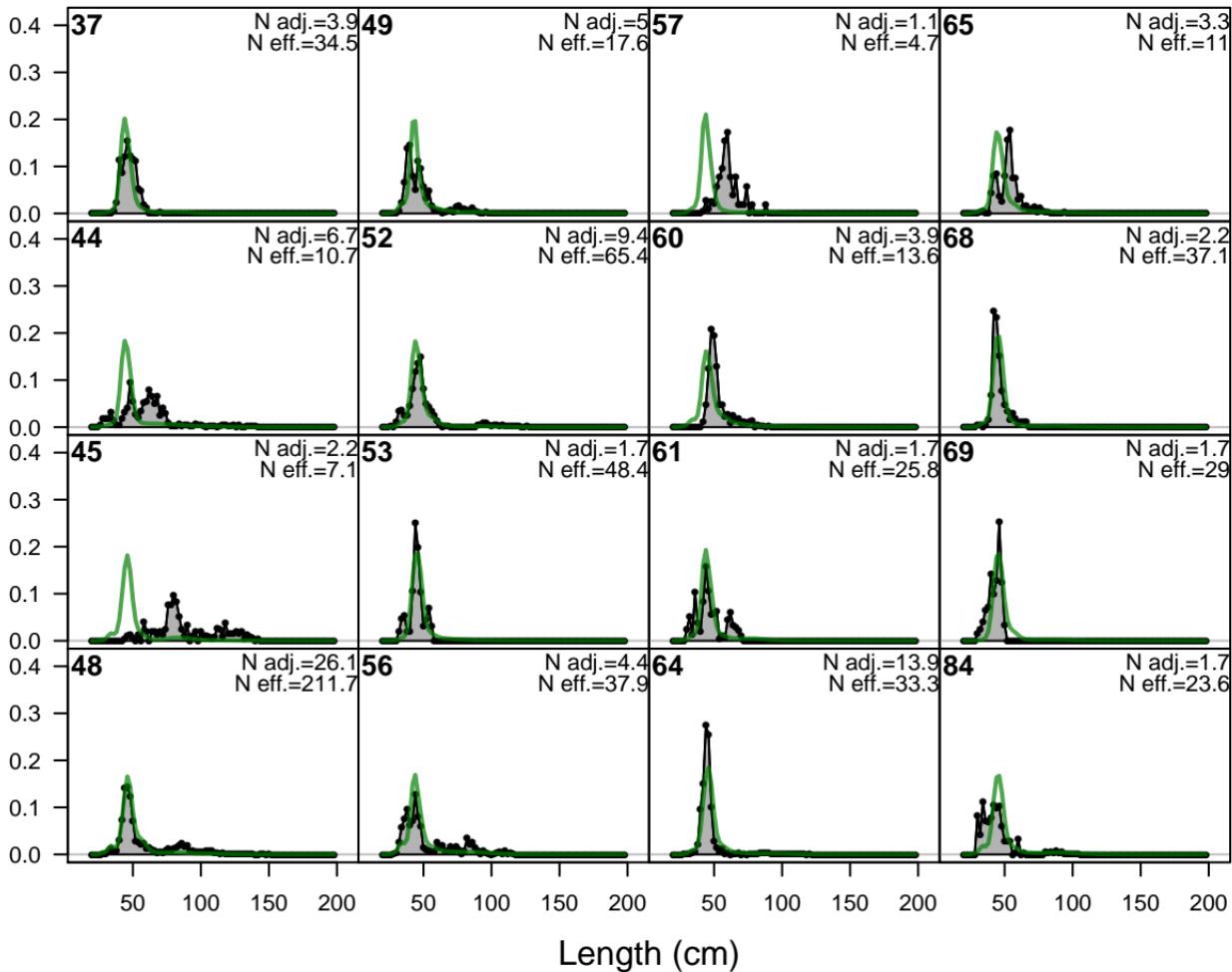




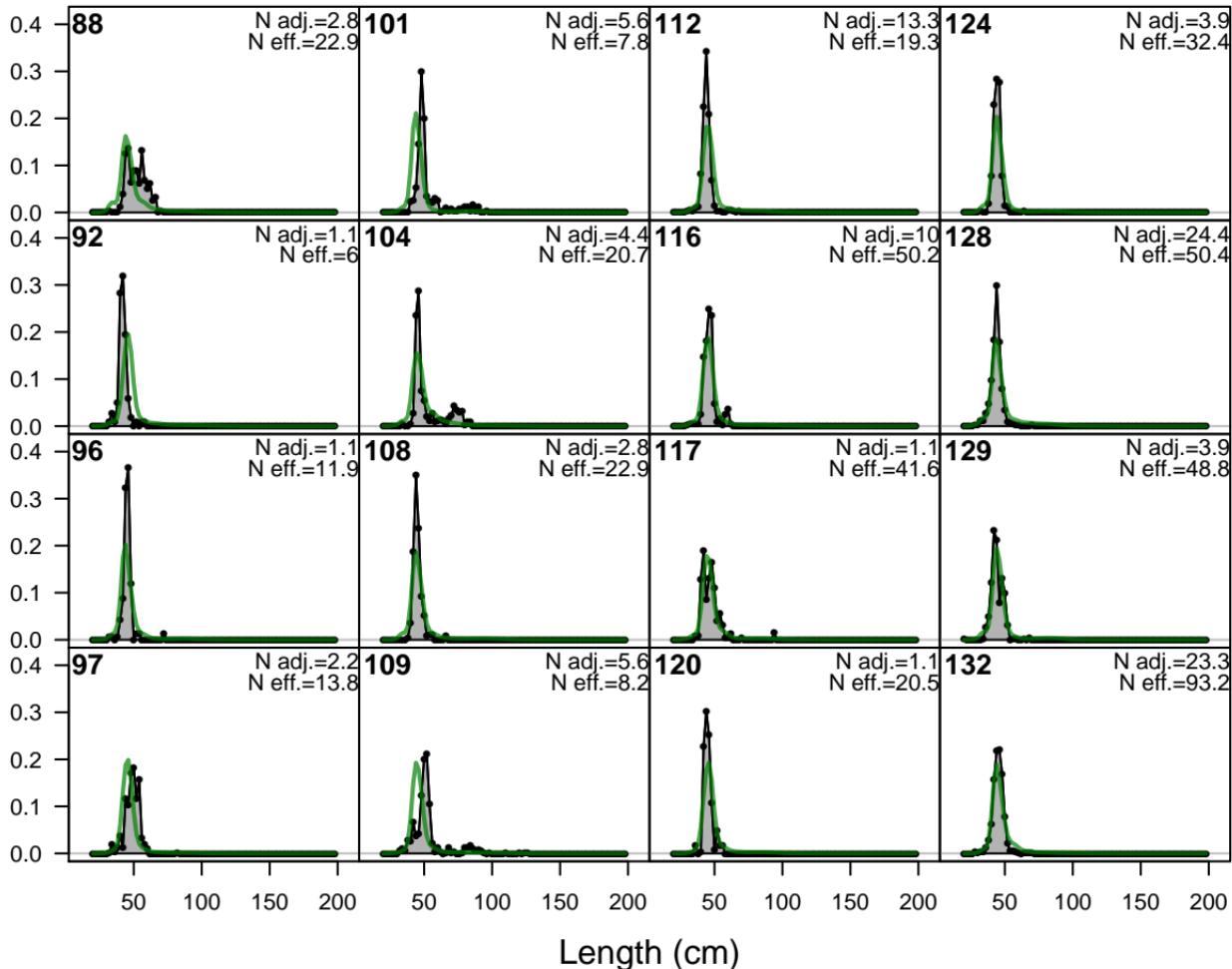
# F1-OBJ\_N-Q14 (whole catch)



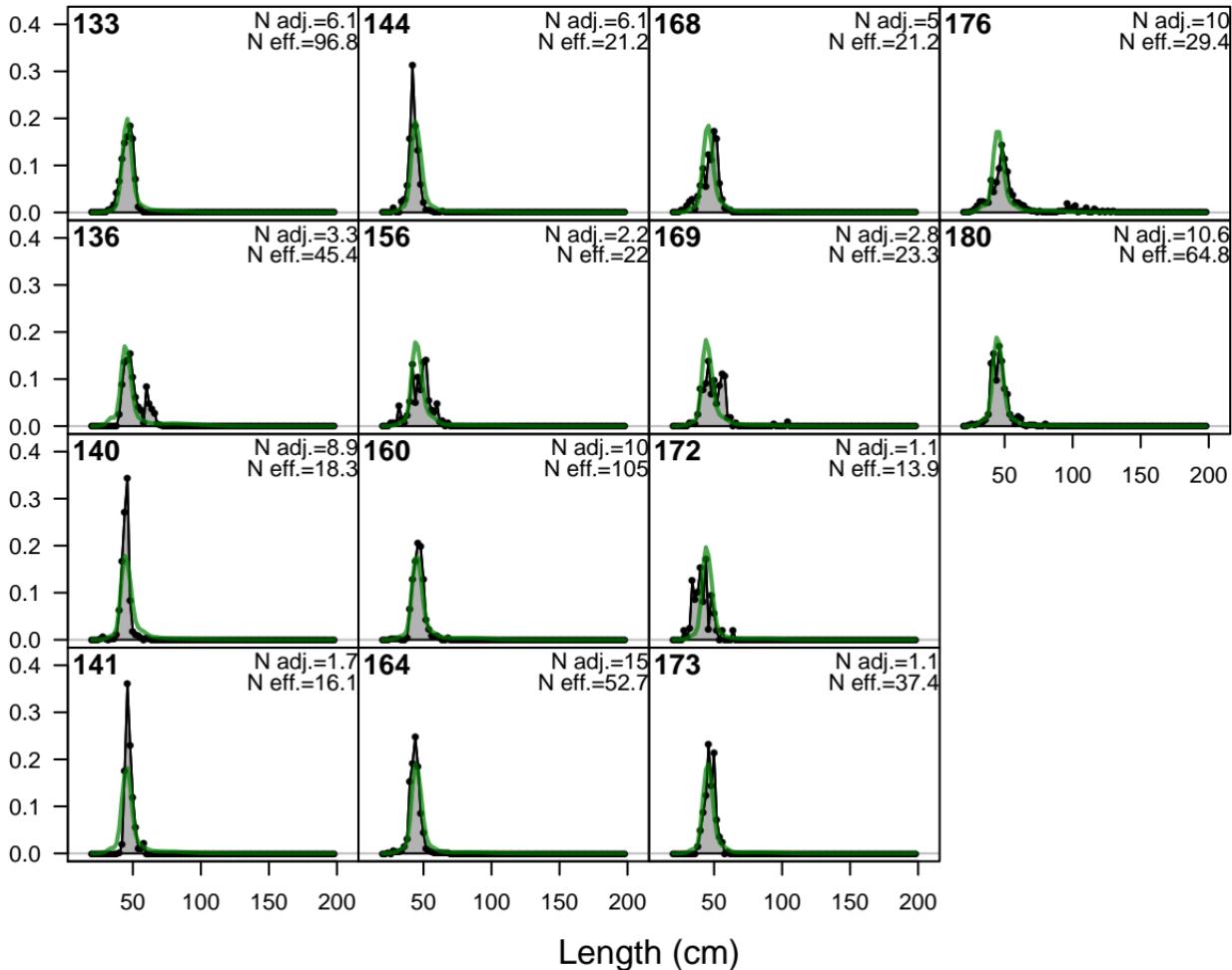
Proportion

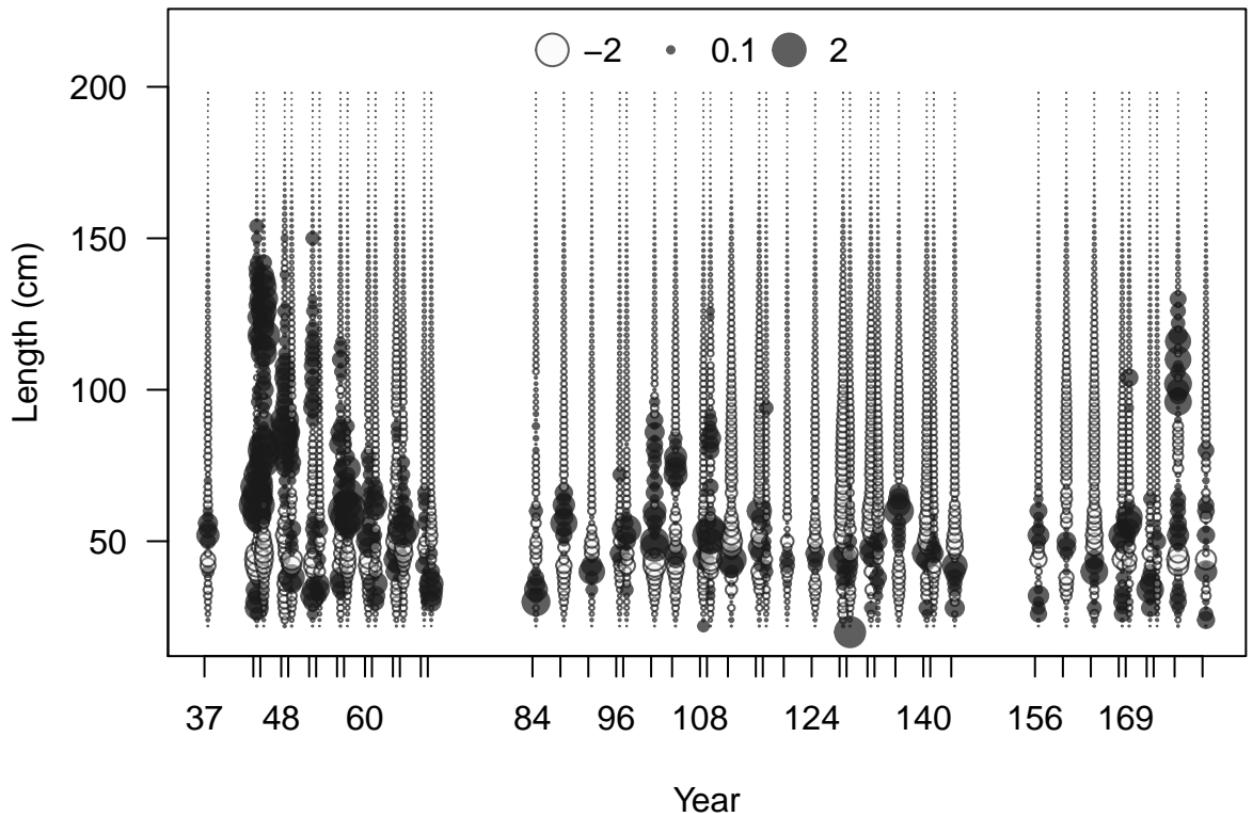


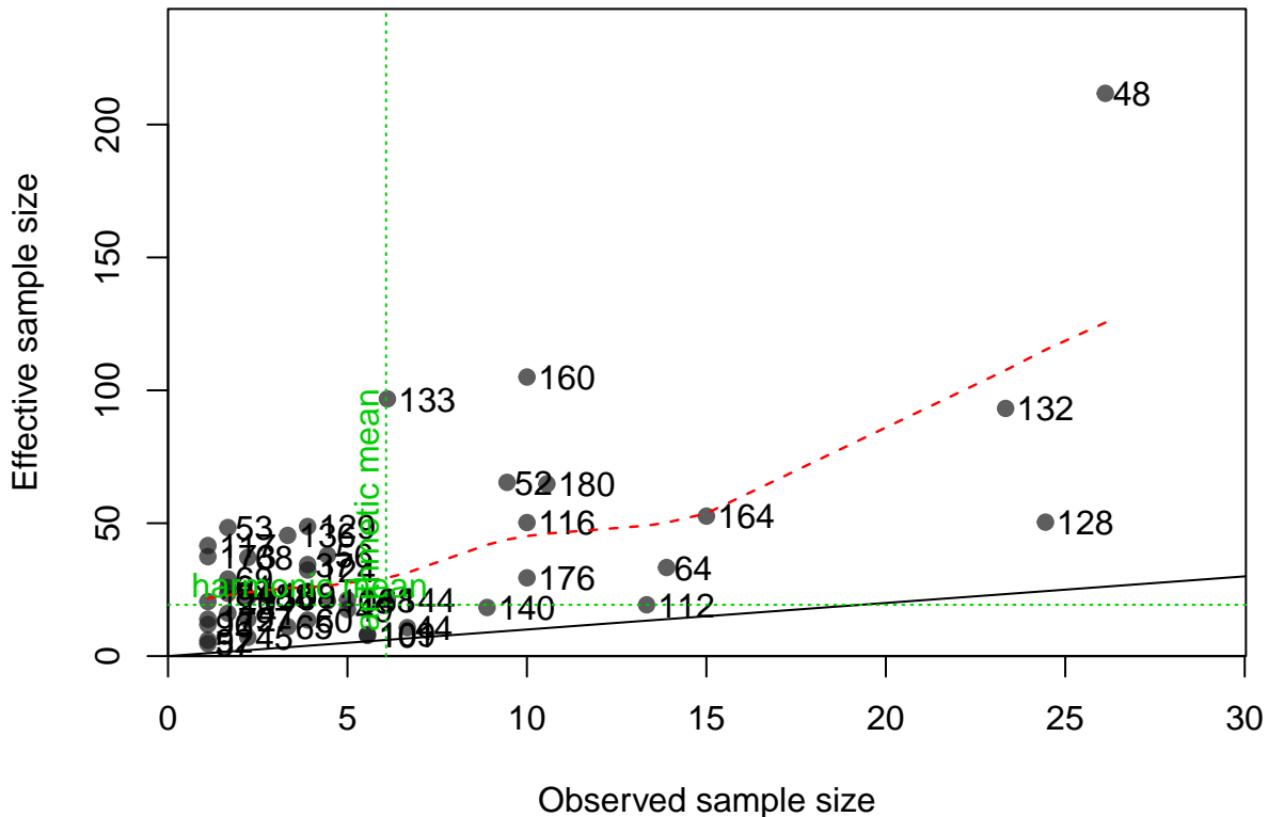
Proportion



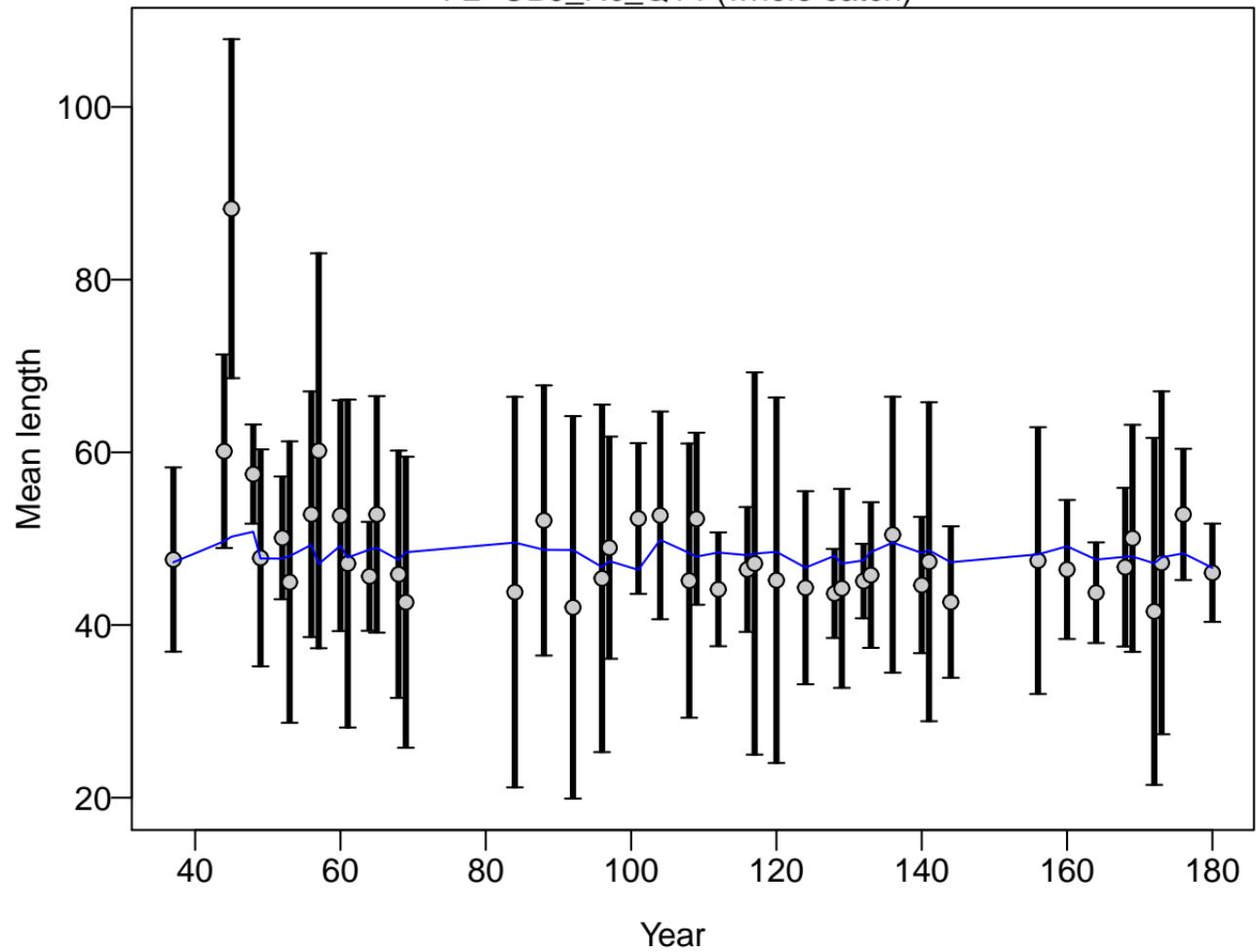
Proportion



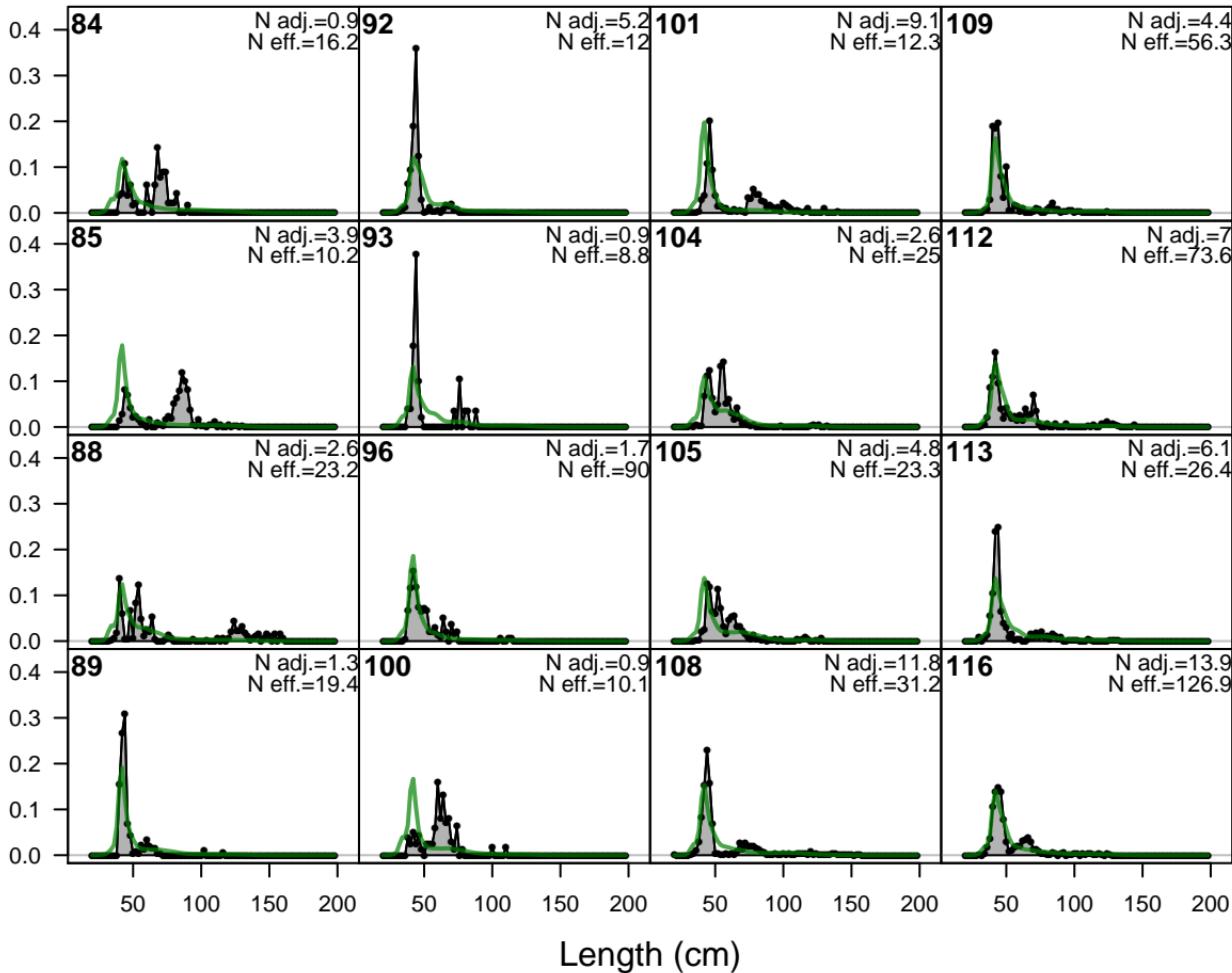




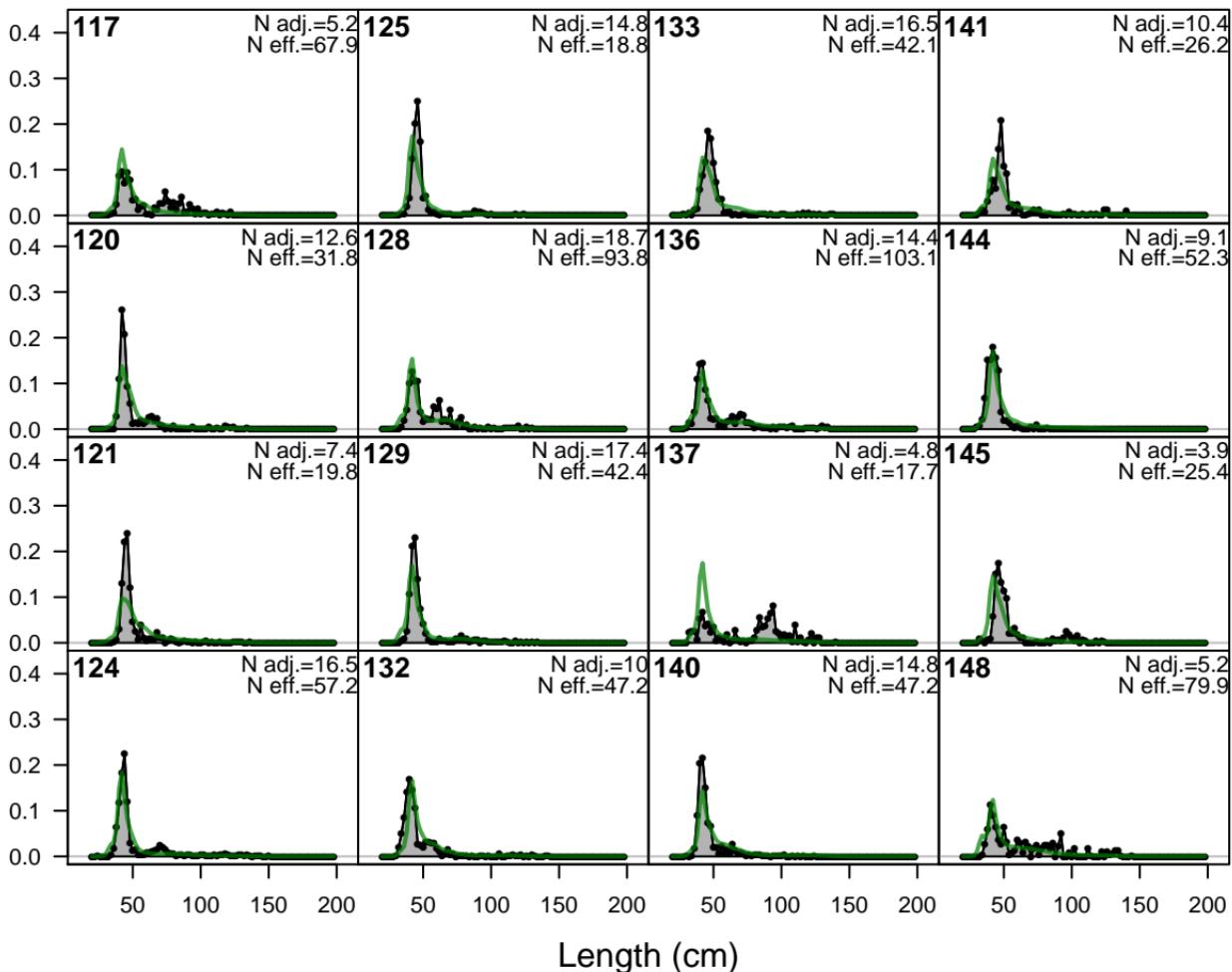
F2-OBJ\_Nc\_Q14 (whole catch)



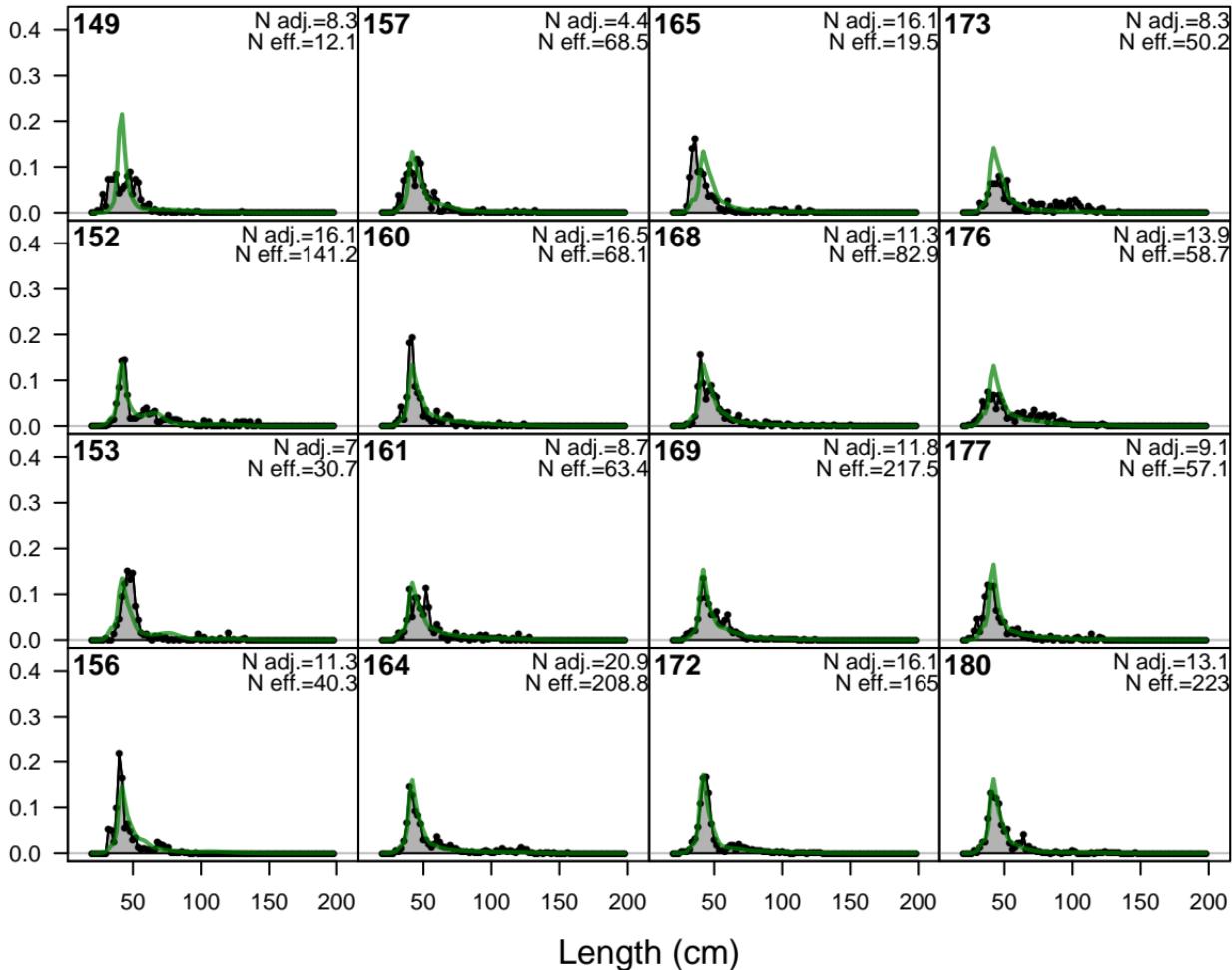
Proportion

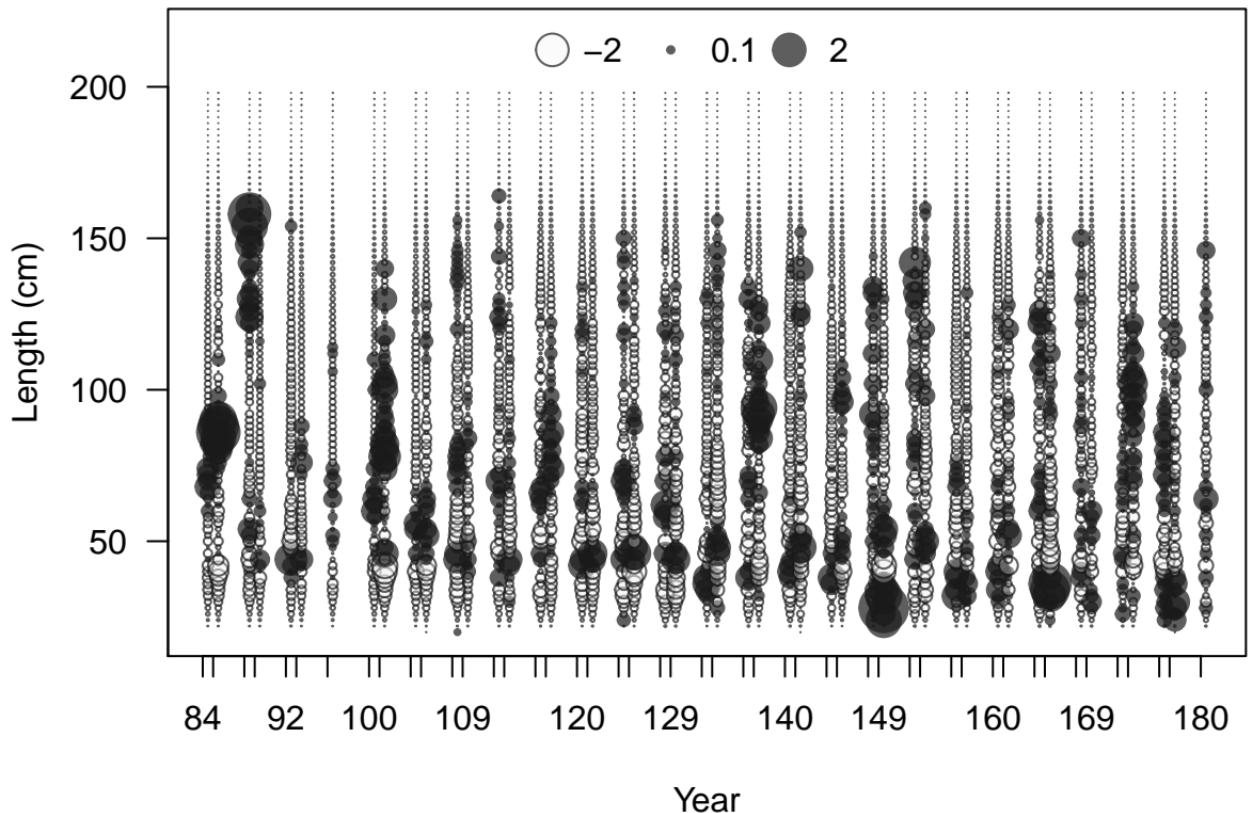


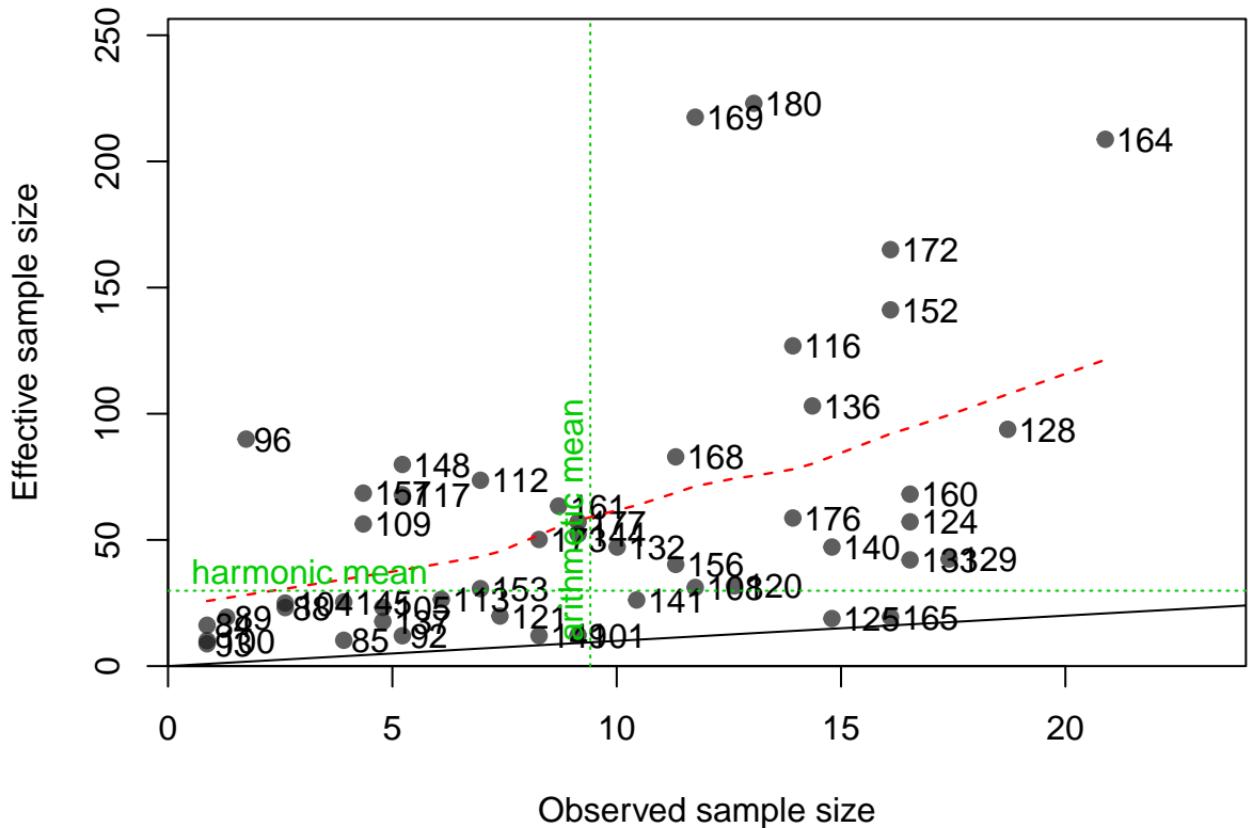
Proportion



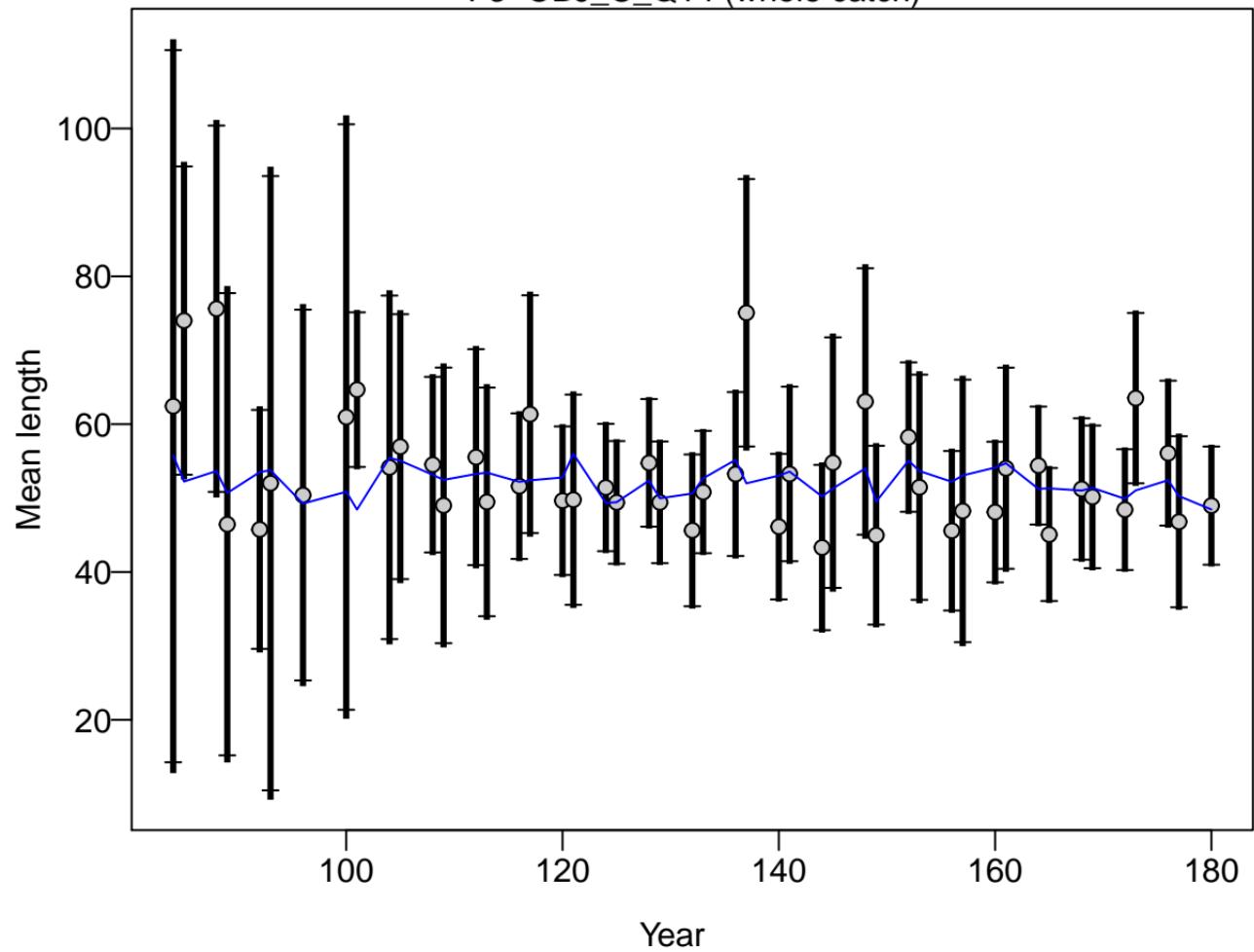
Proportion



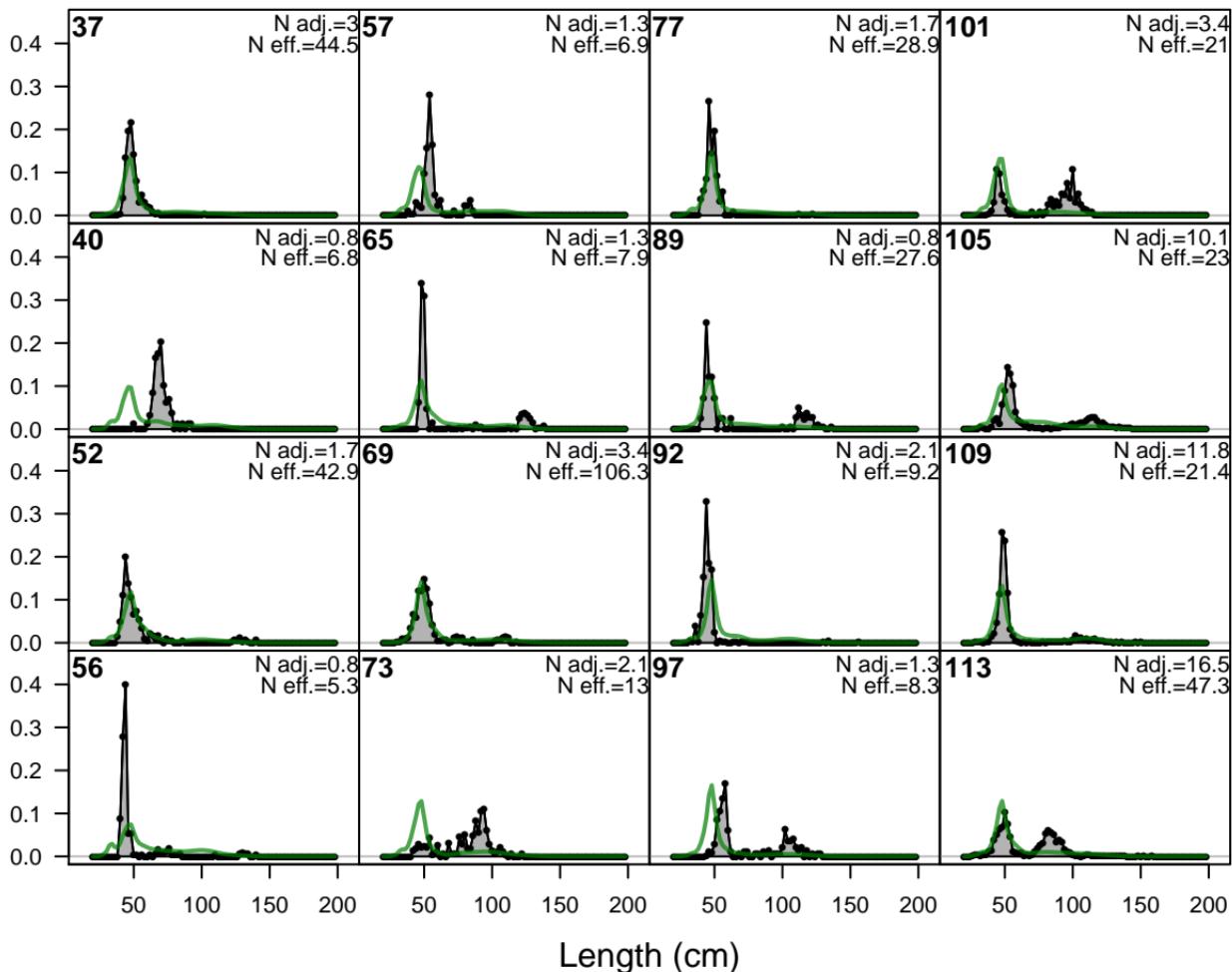




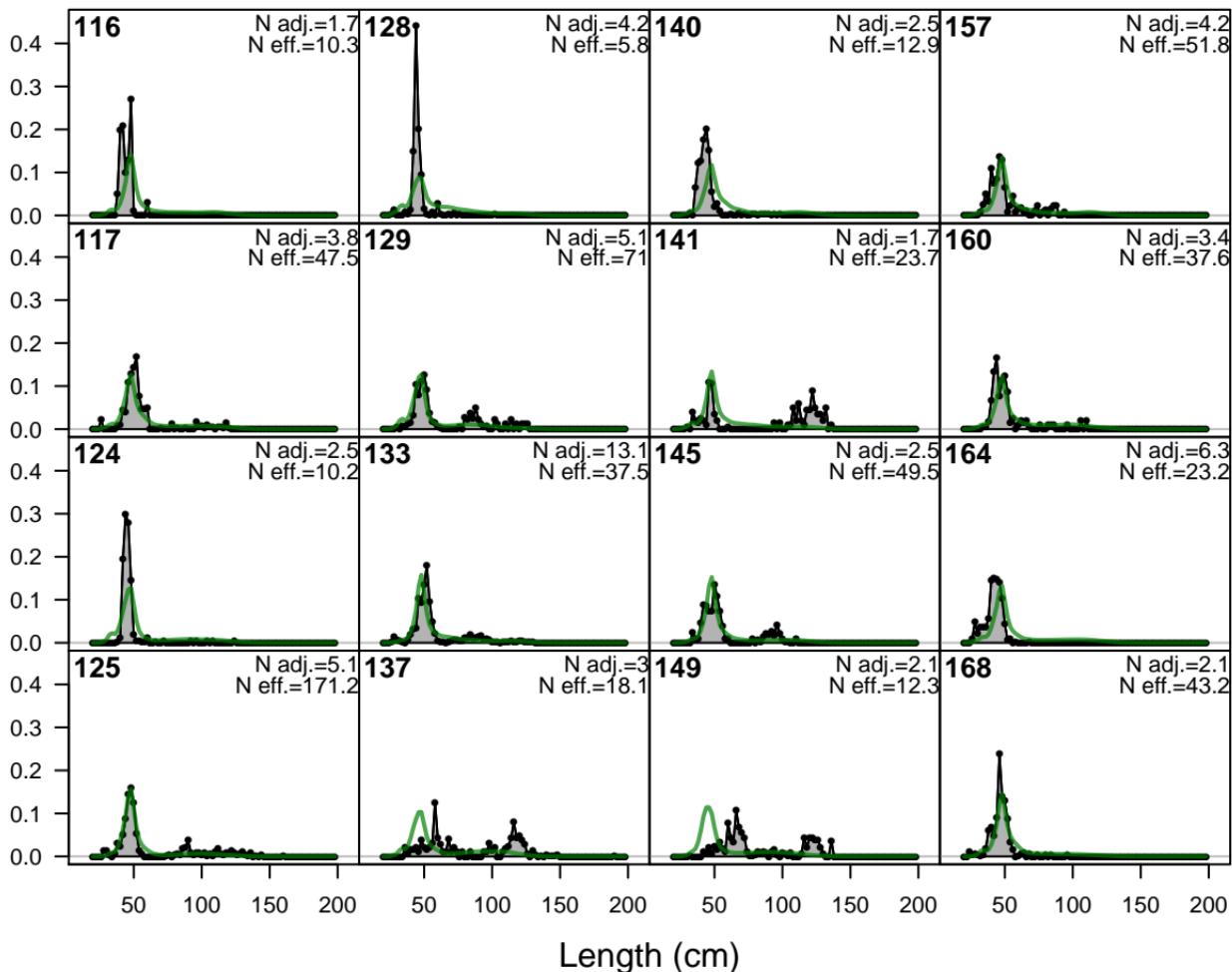
### F3-OBJ\_C\_Q14 (whole catch)



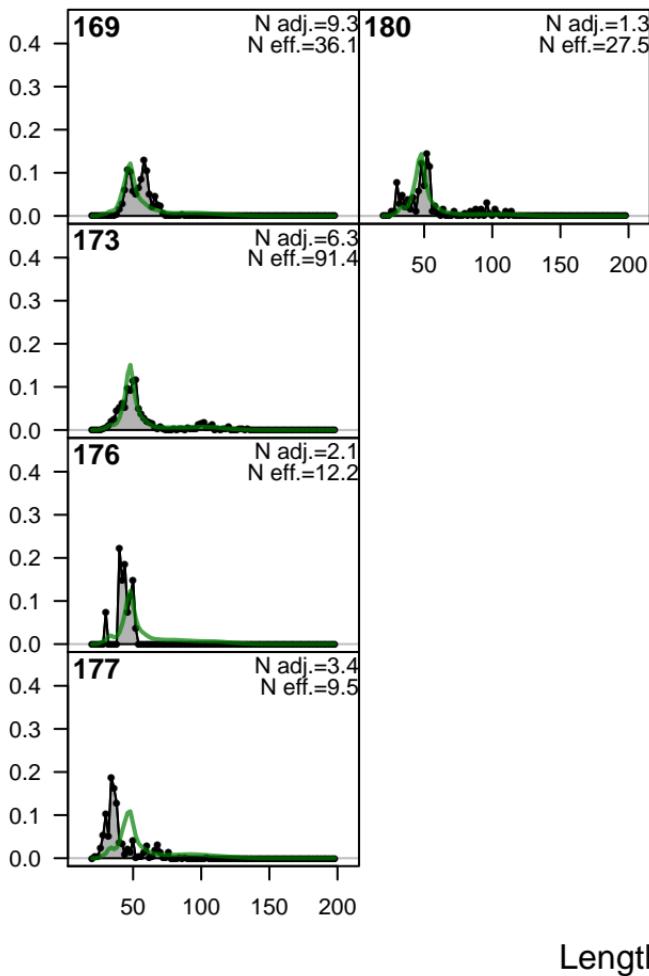
Proportion

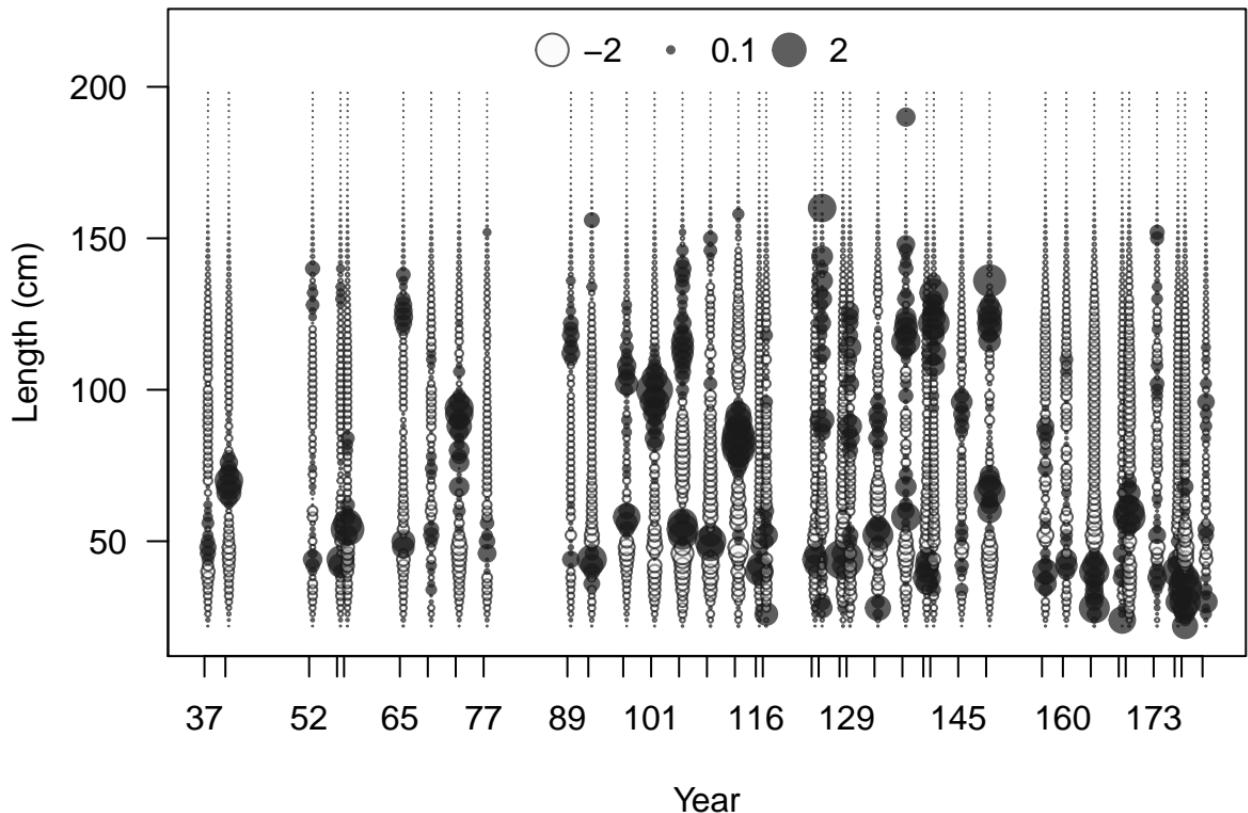


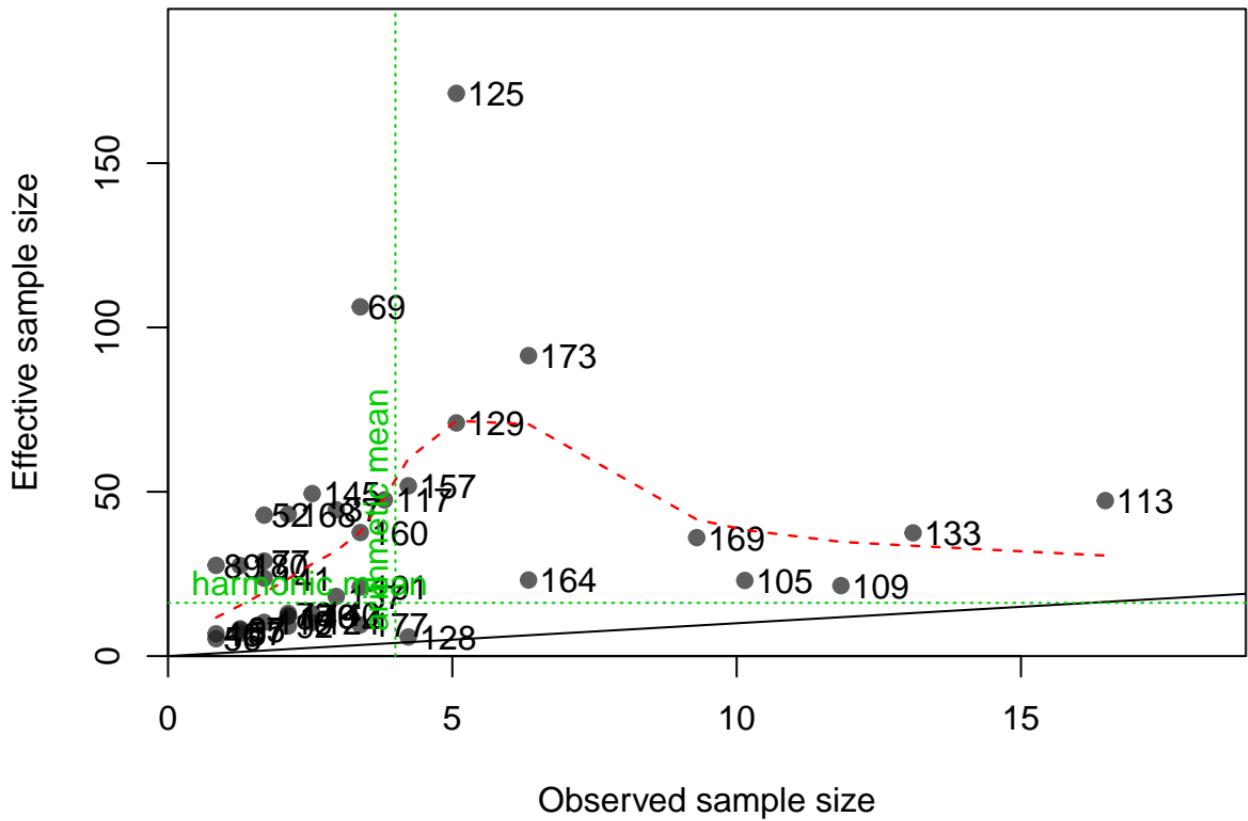
Proportion



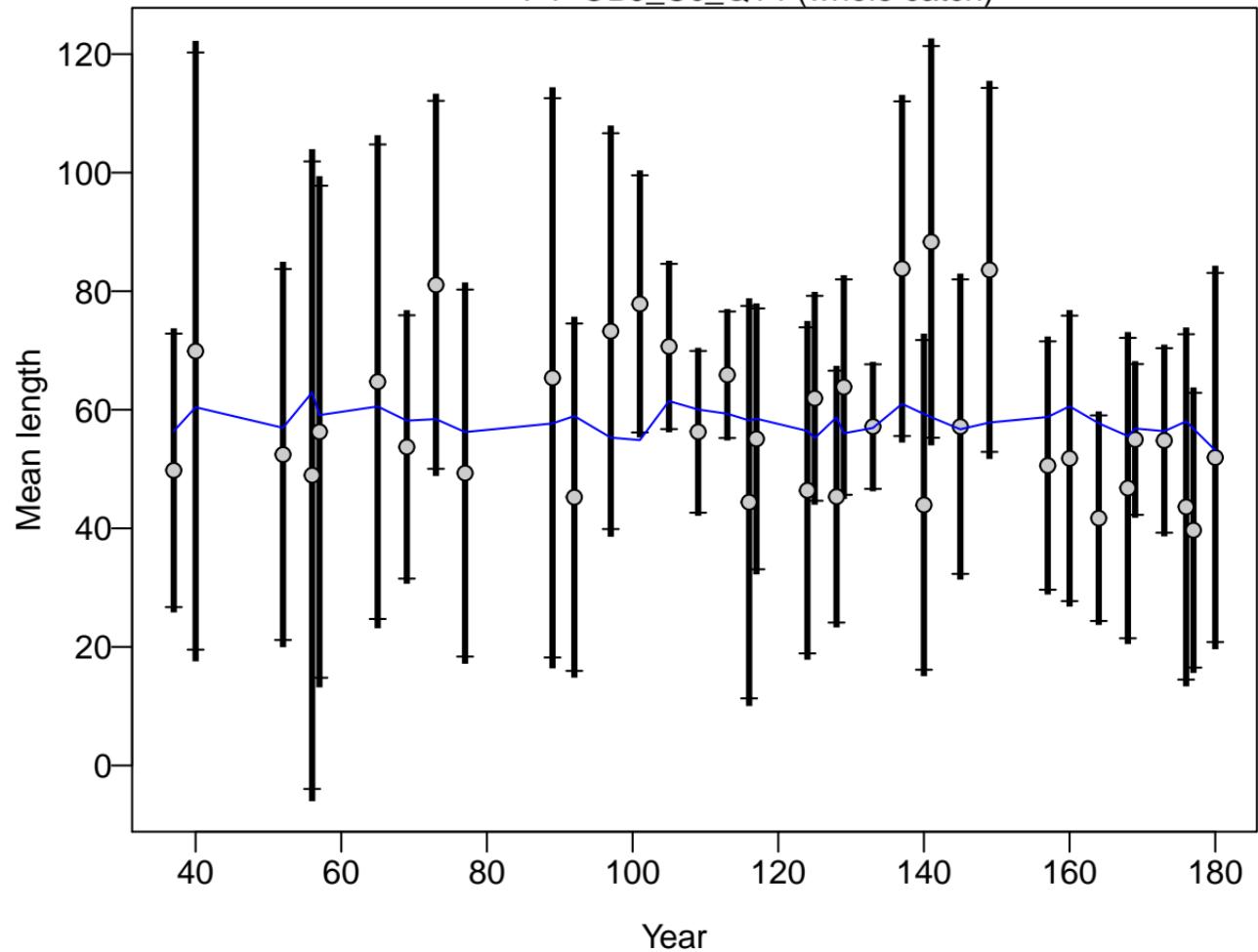
Proportion



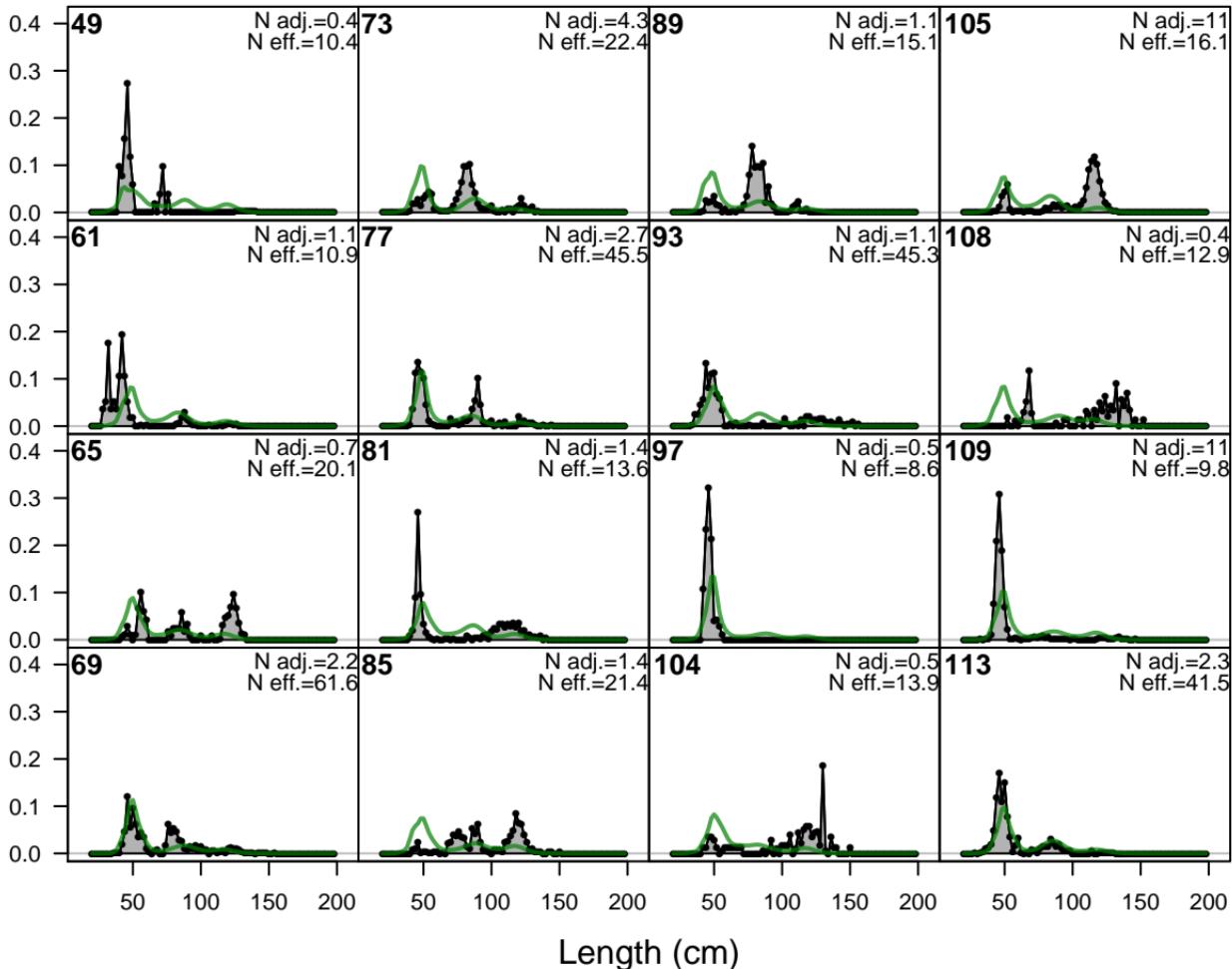




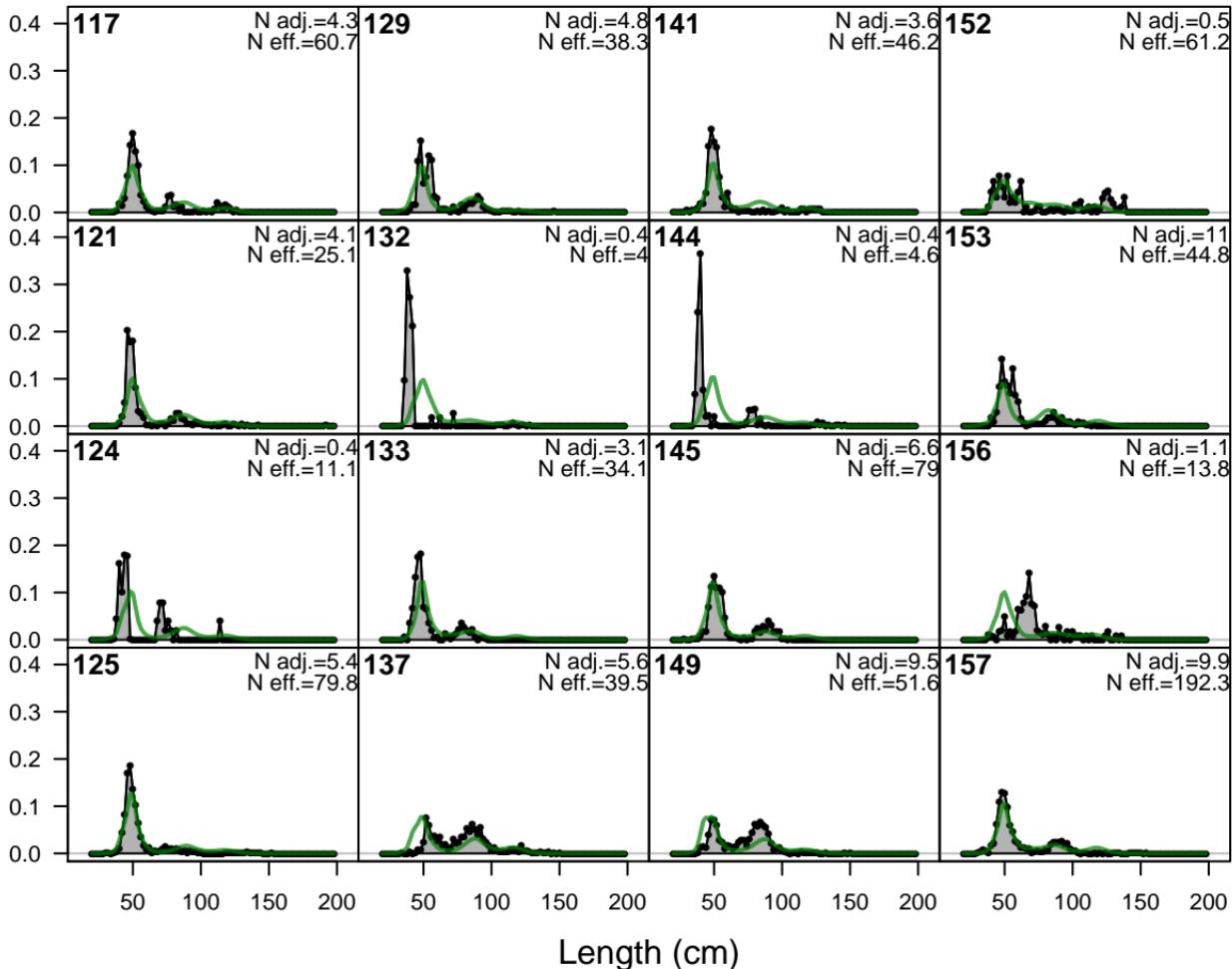
# F4-OBJ\_Cc\_Q14 (whole catch)



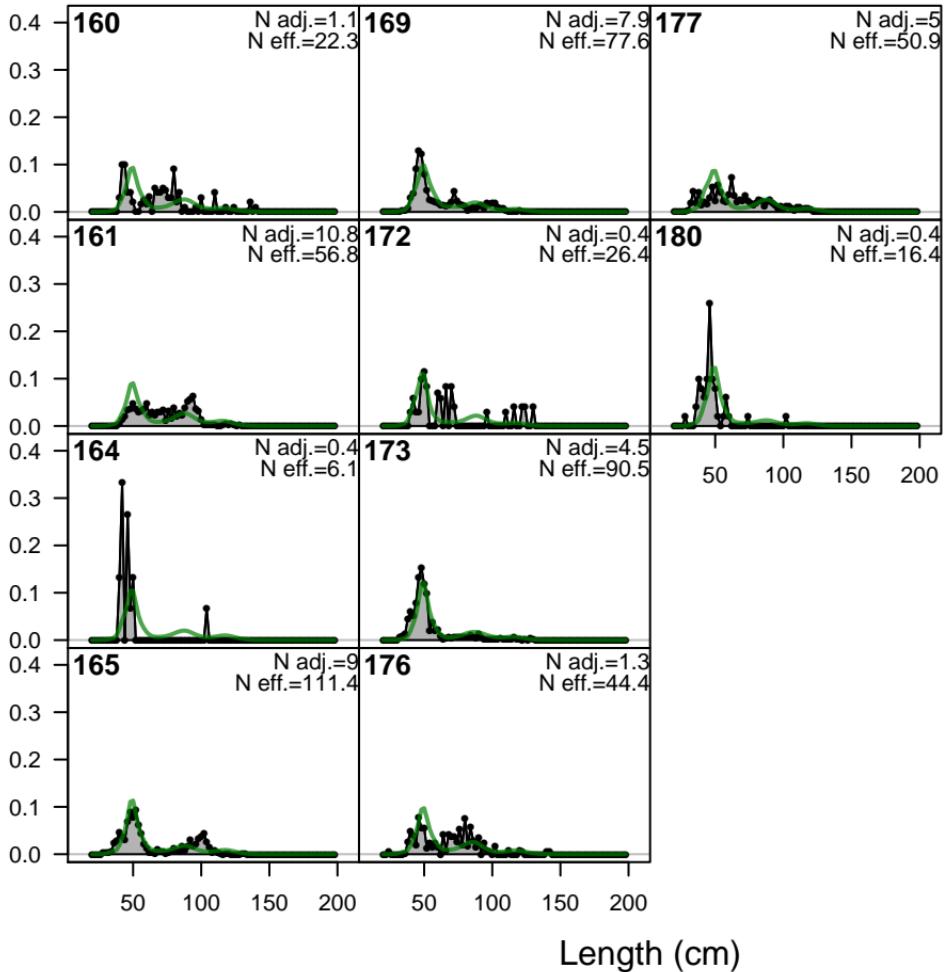
Proportion

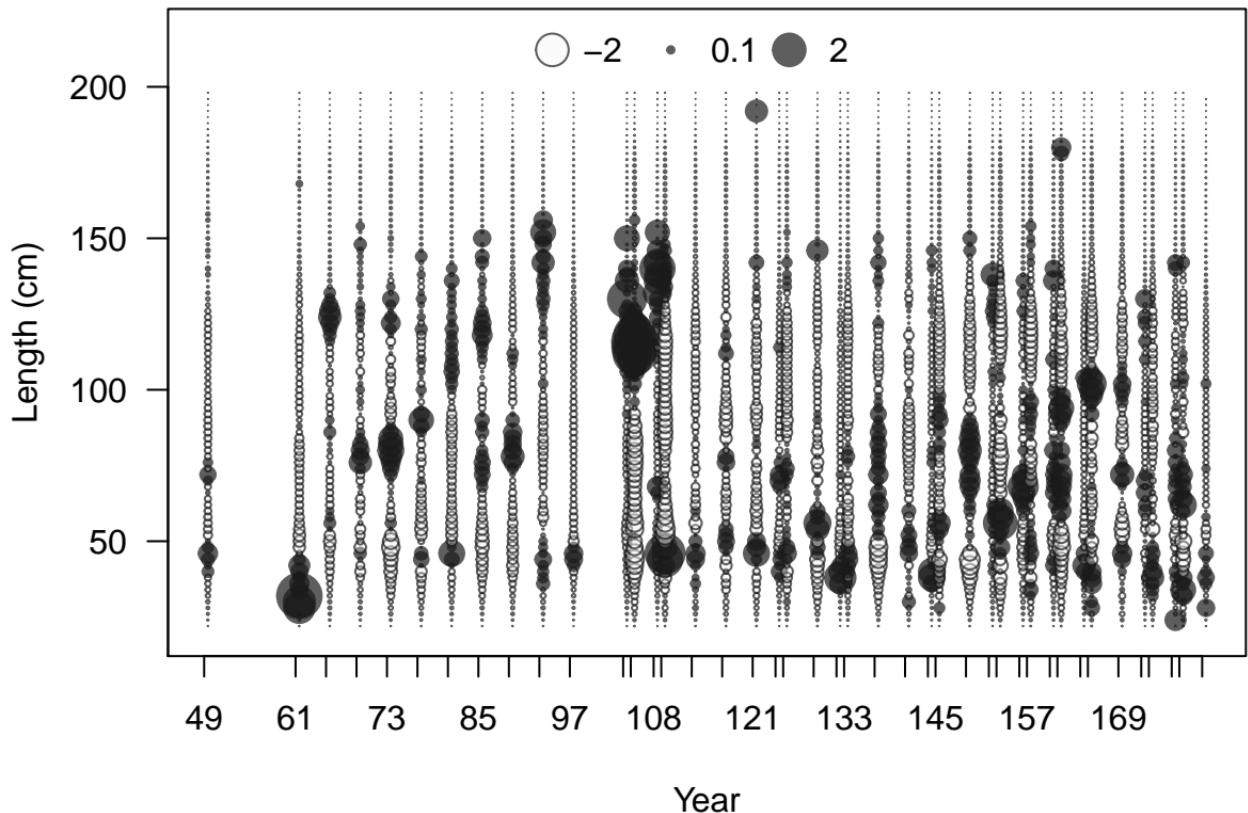


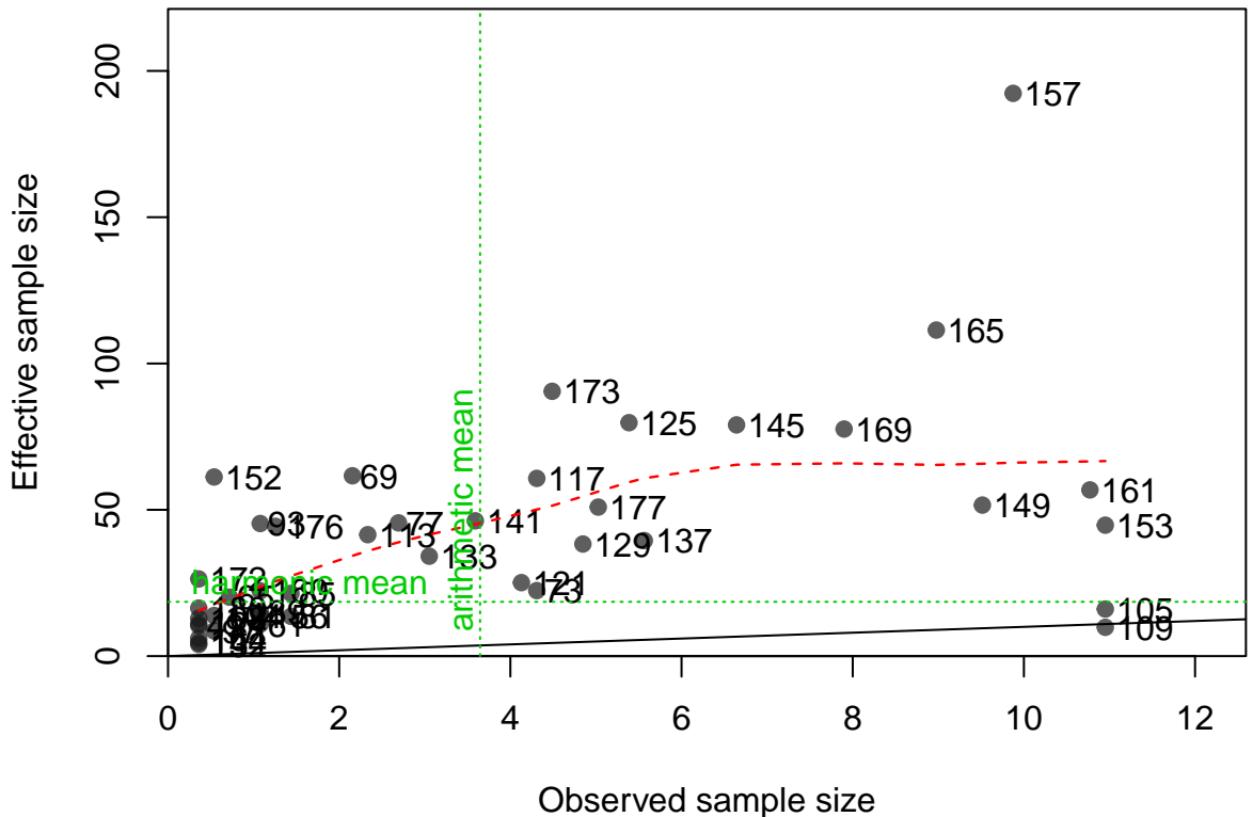
Proportion



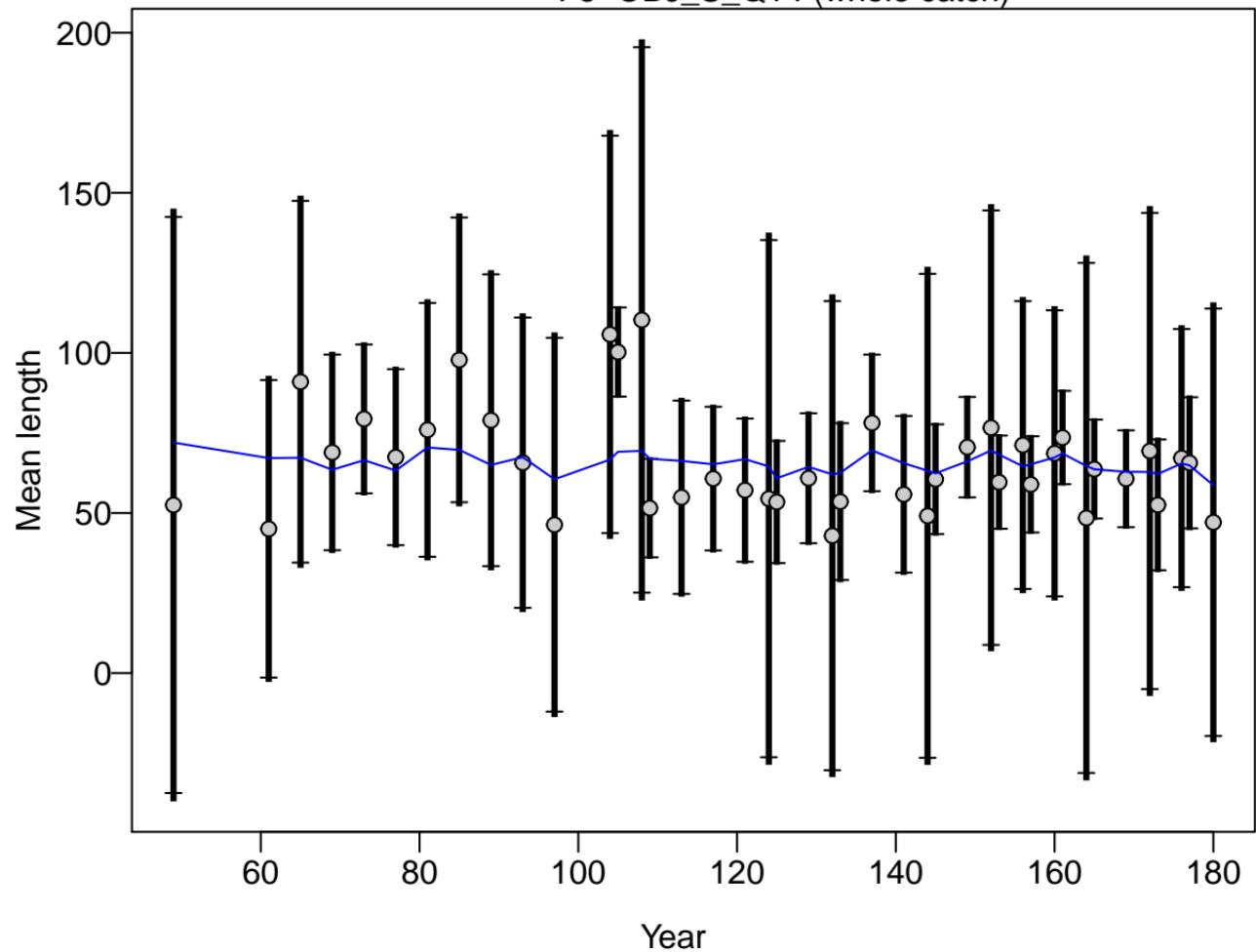
Proportion



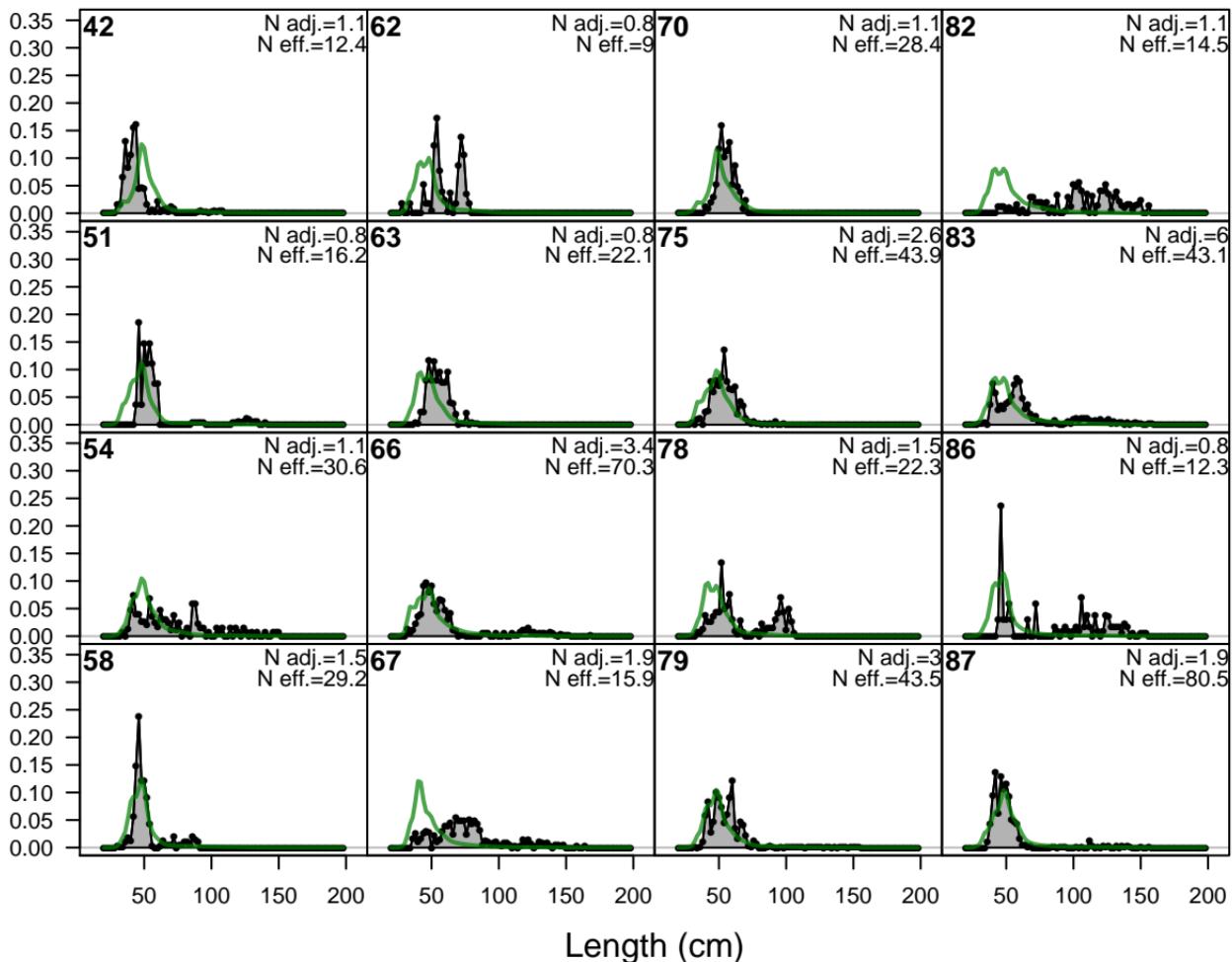




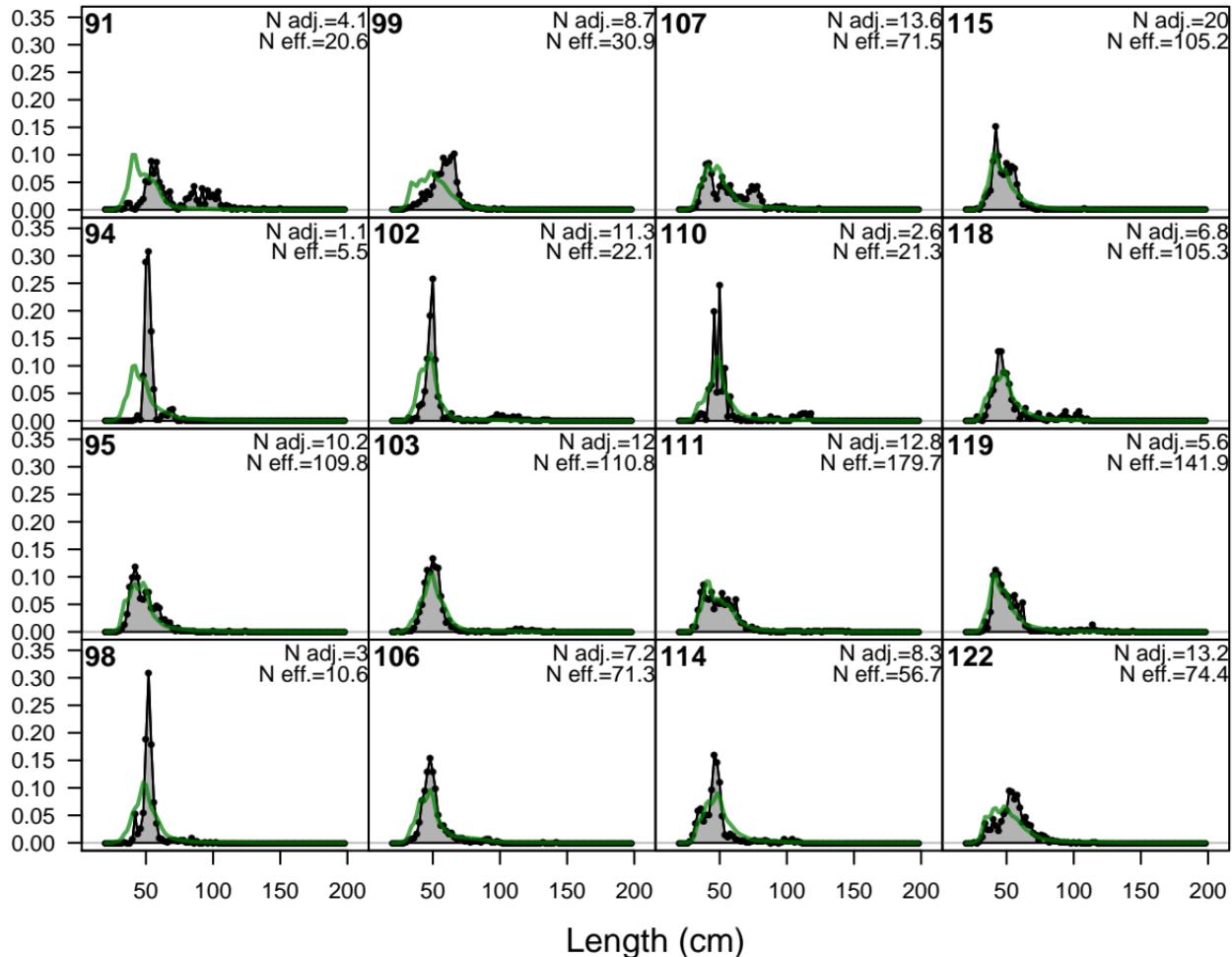
# F5-OBJ\_S\_Q14 (whole catch)



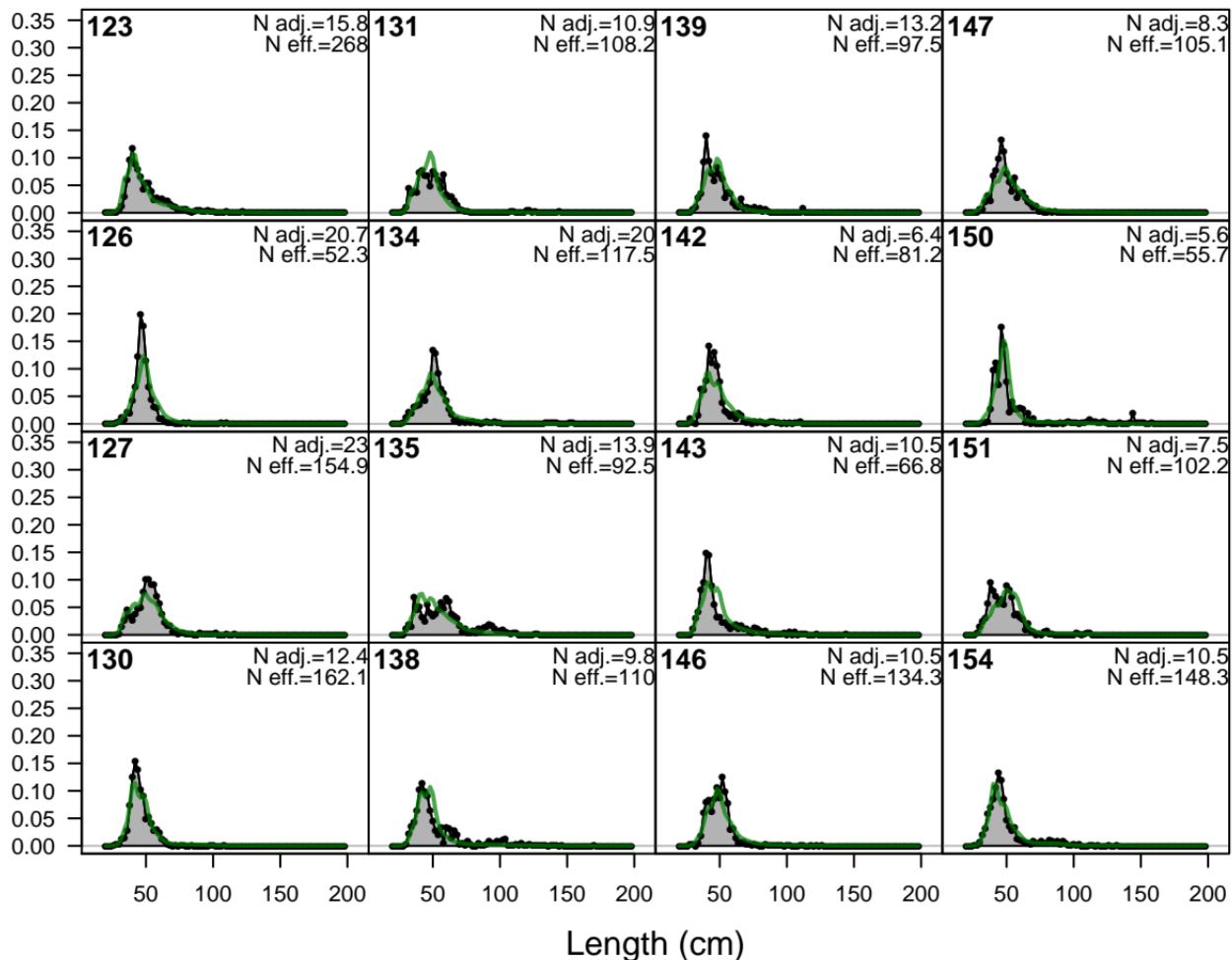
Proportion



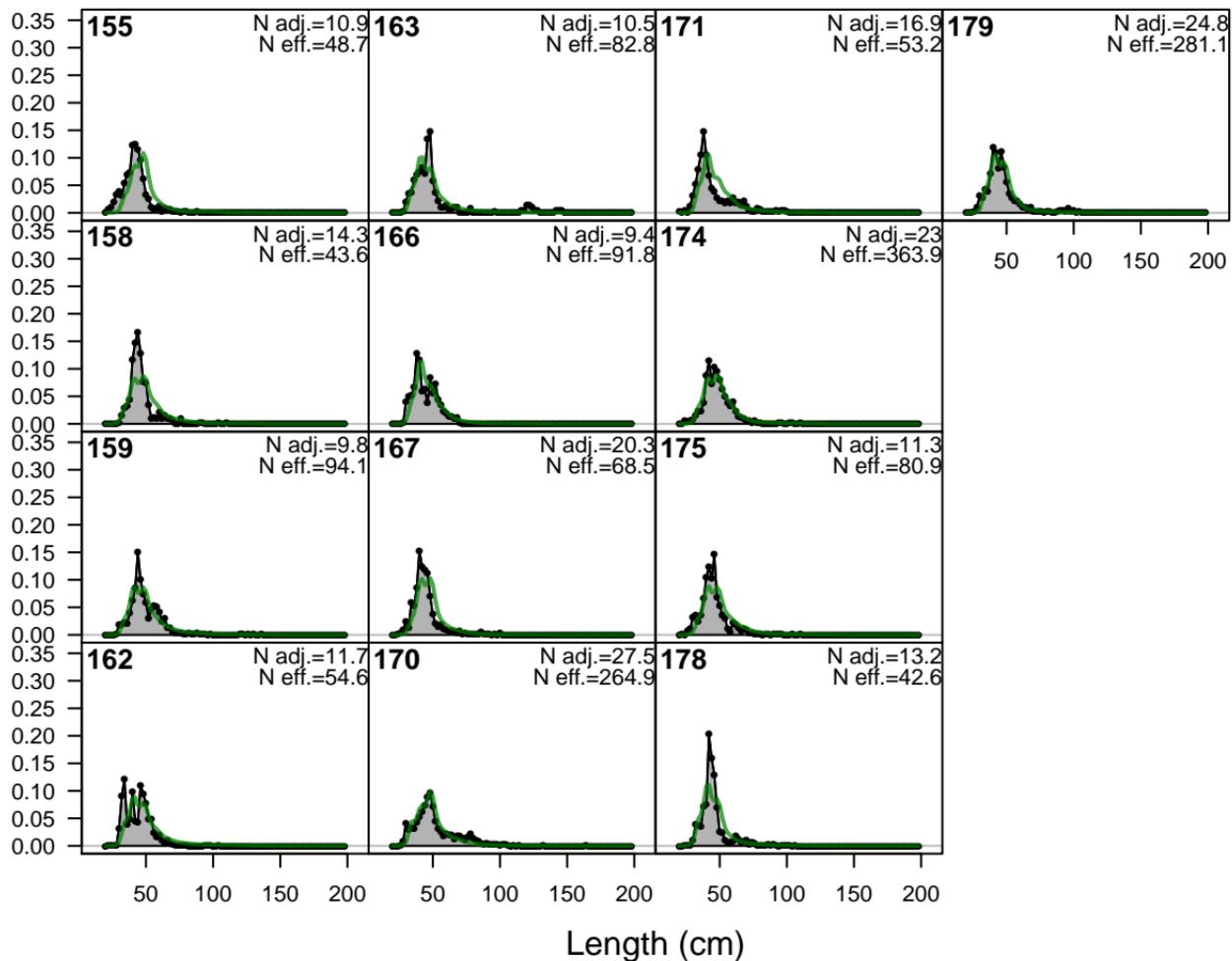
Proportion

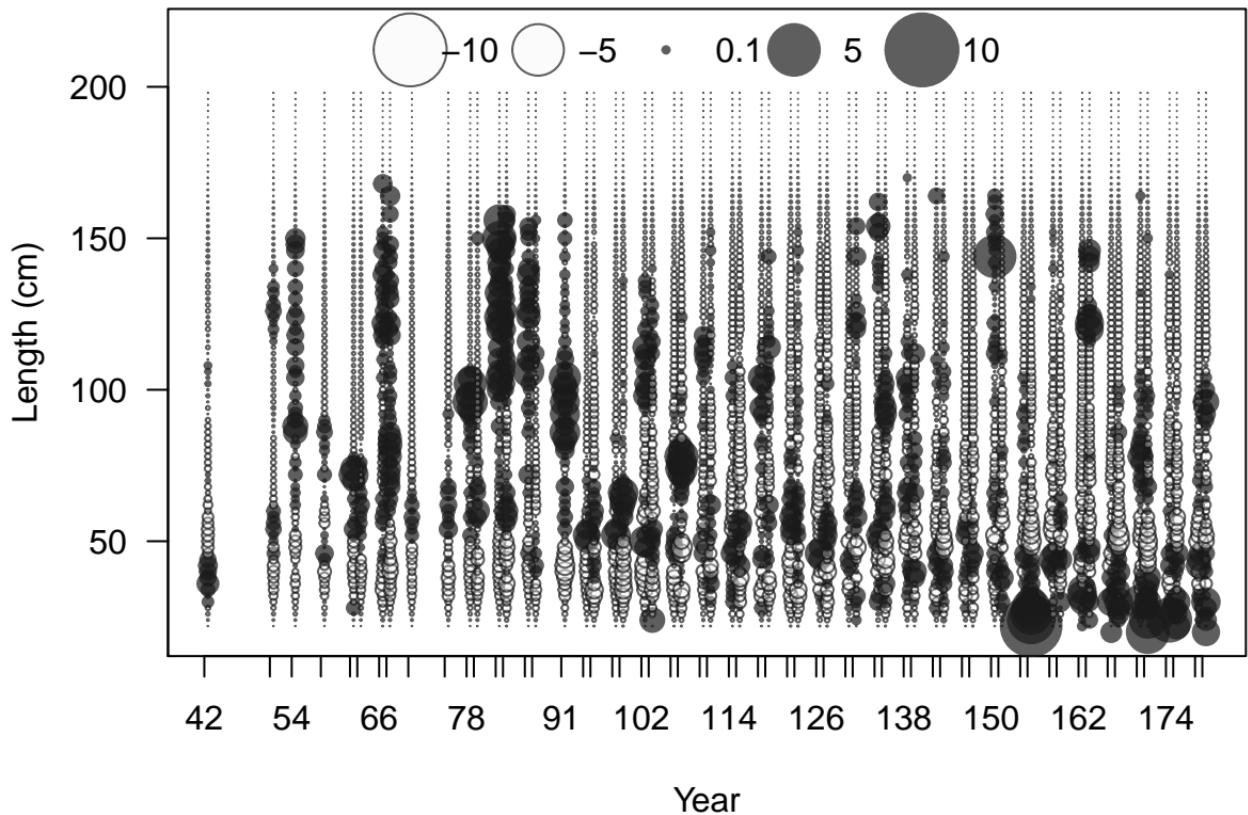


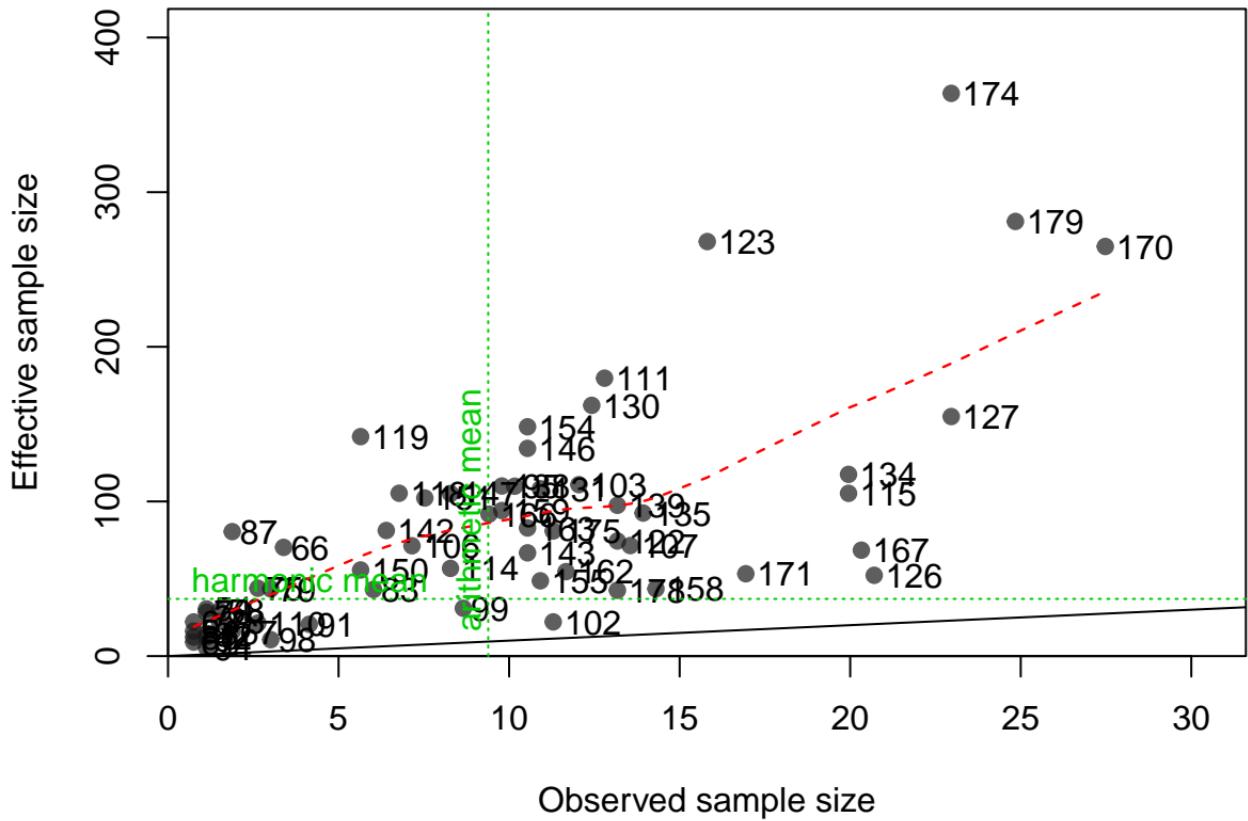
Proportion



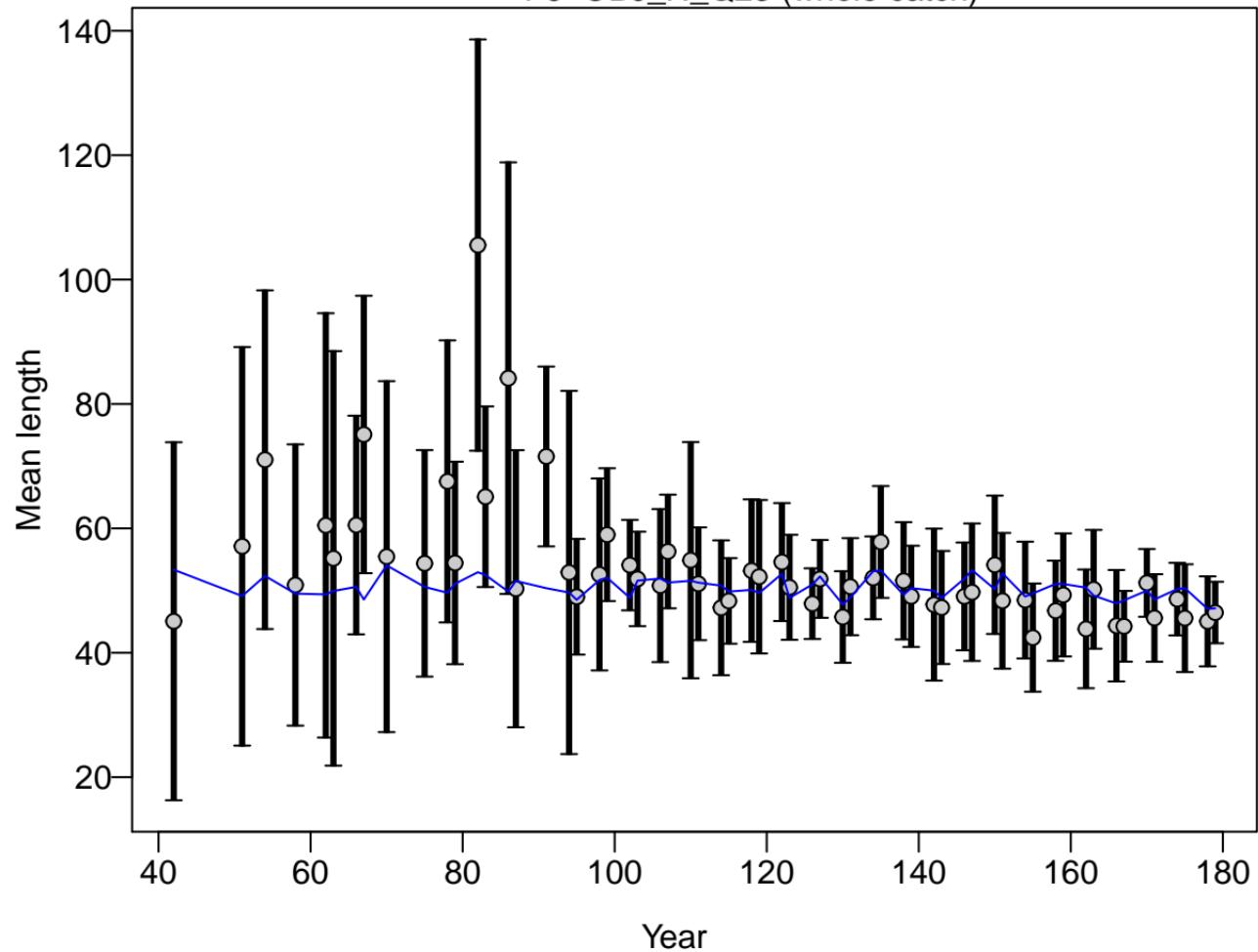
Proportion



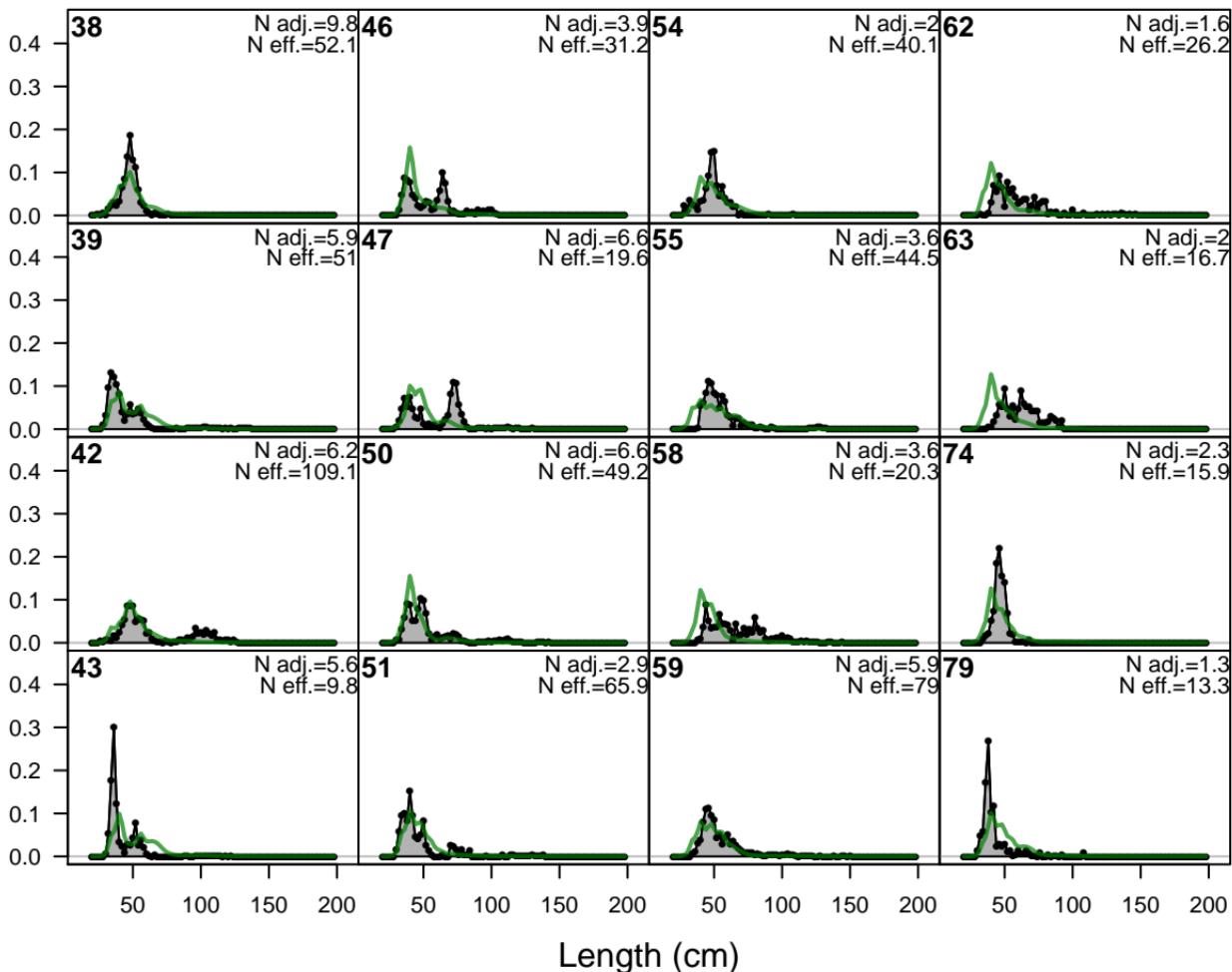




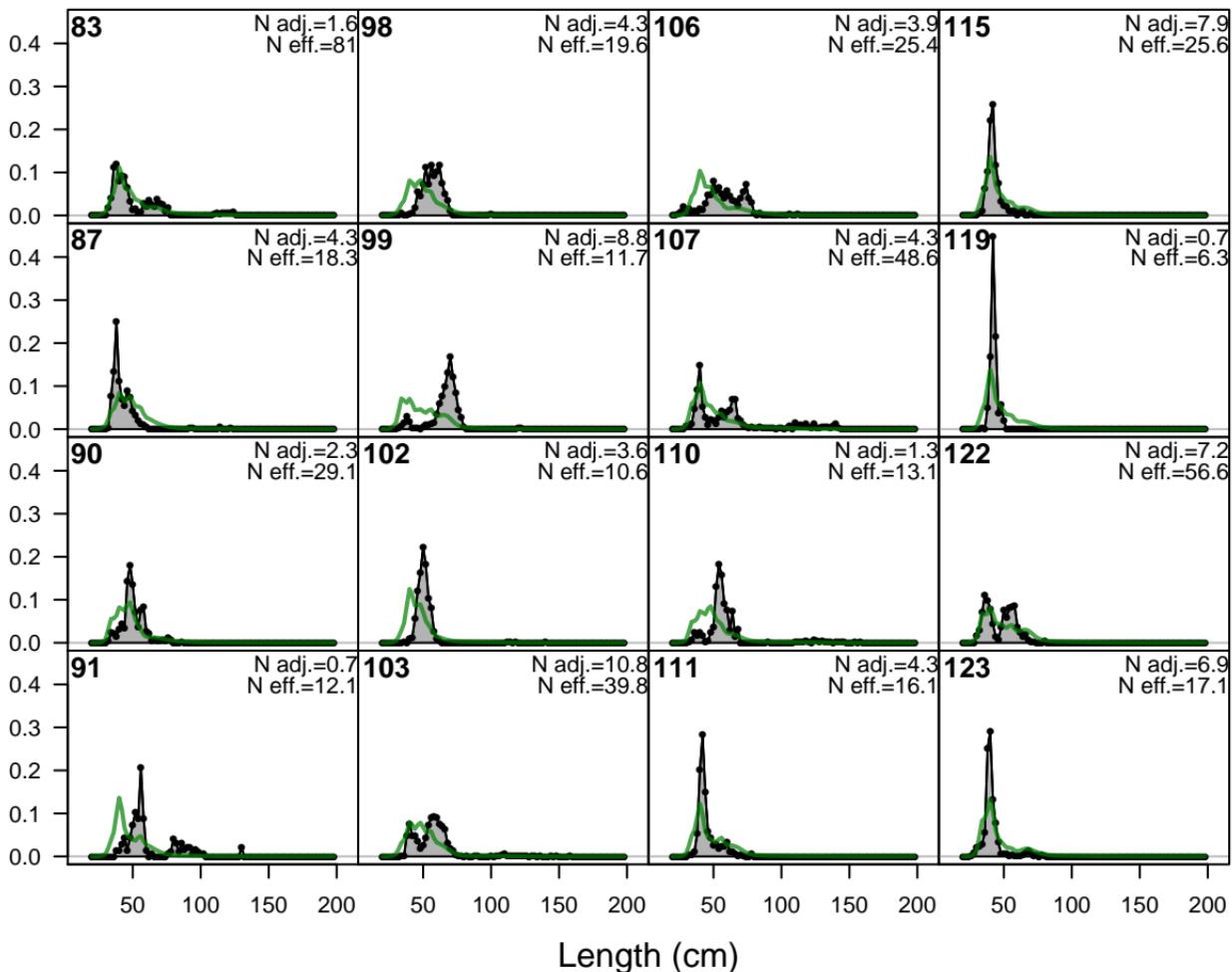
# F6-OBJ\_N\_Q23 (whole catch)



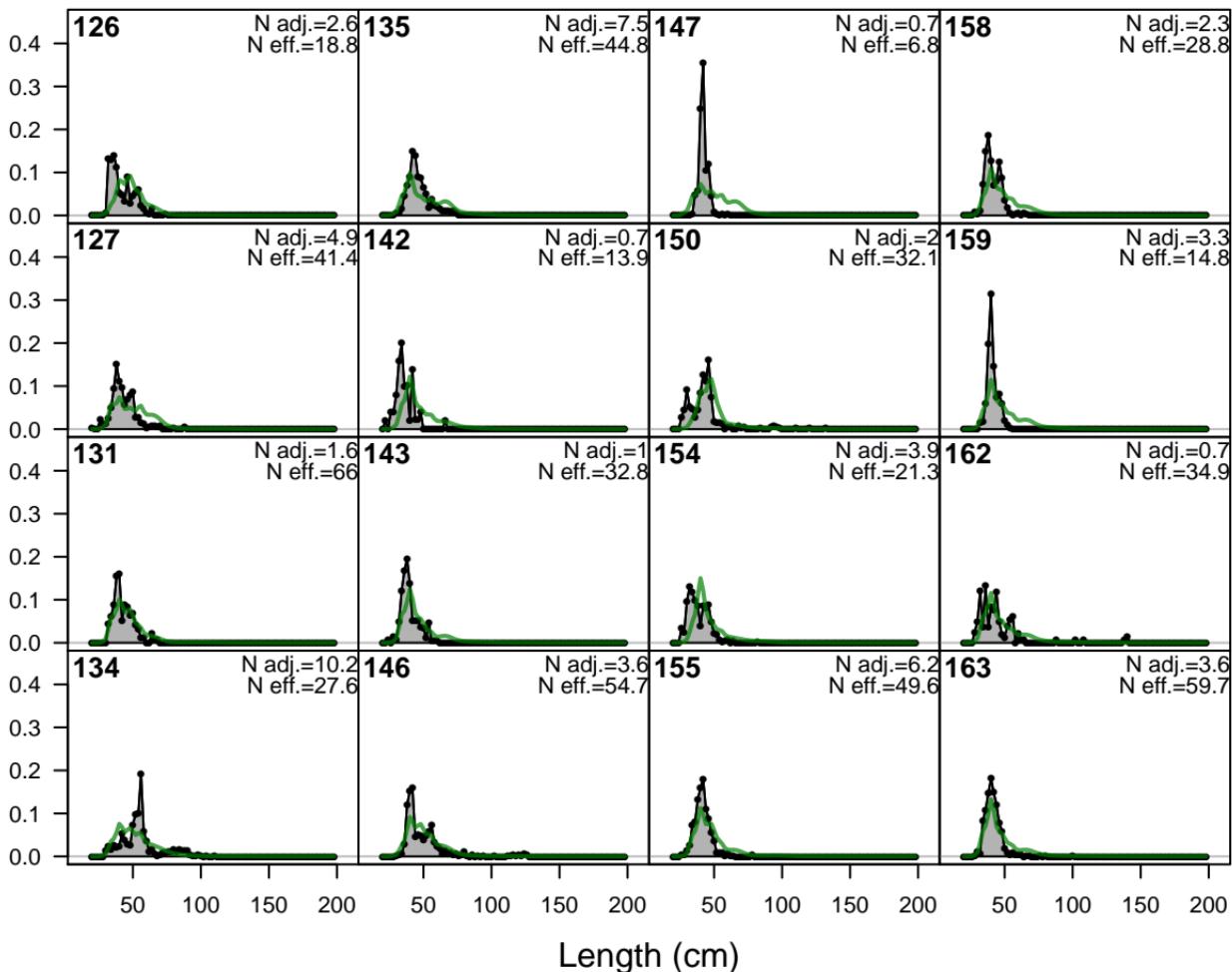
Proportion



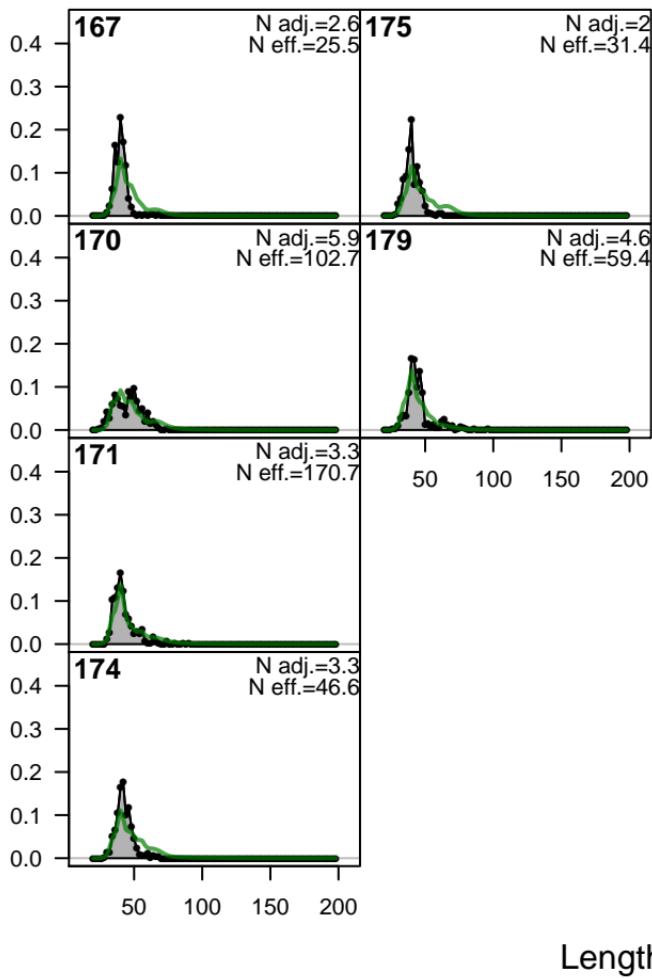
Proportion

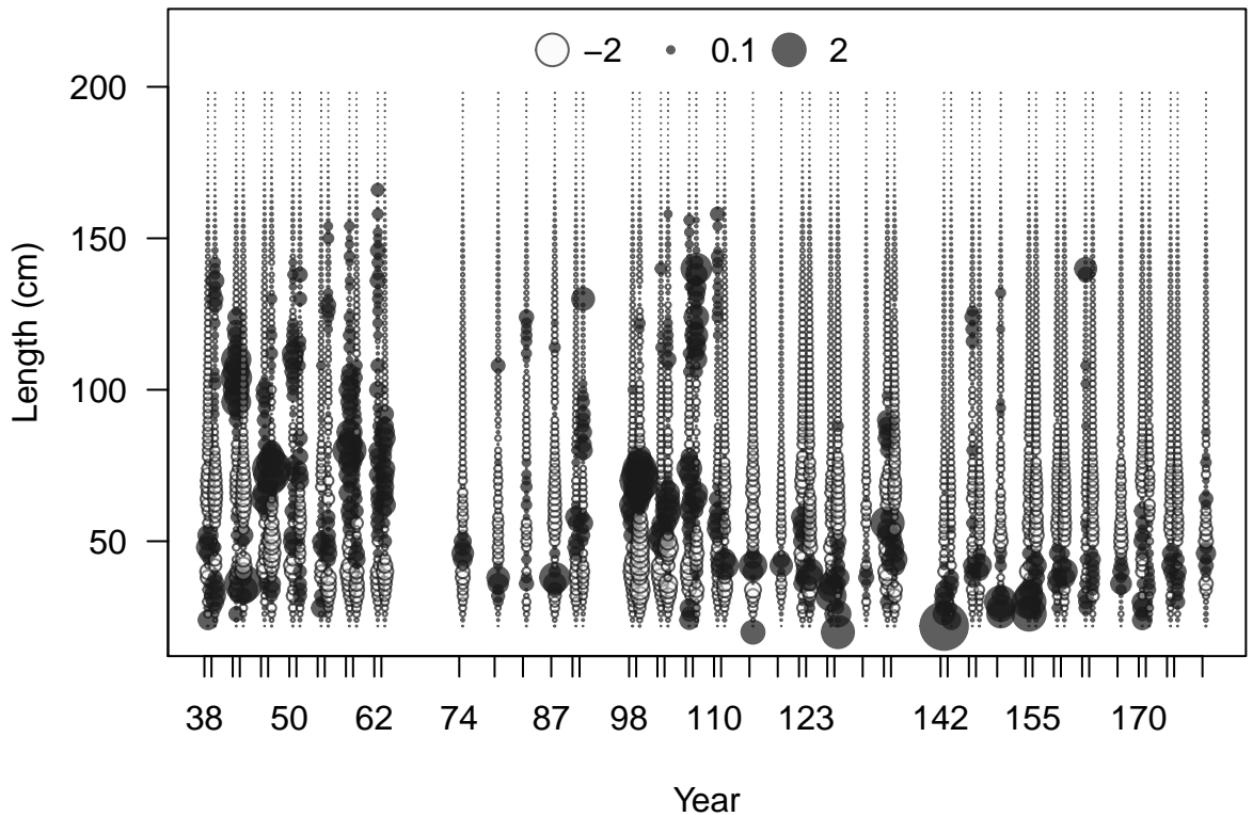


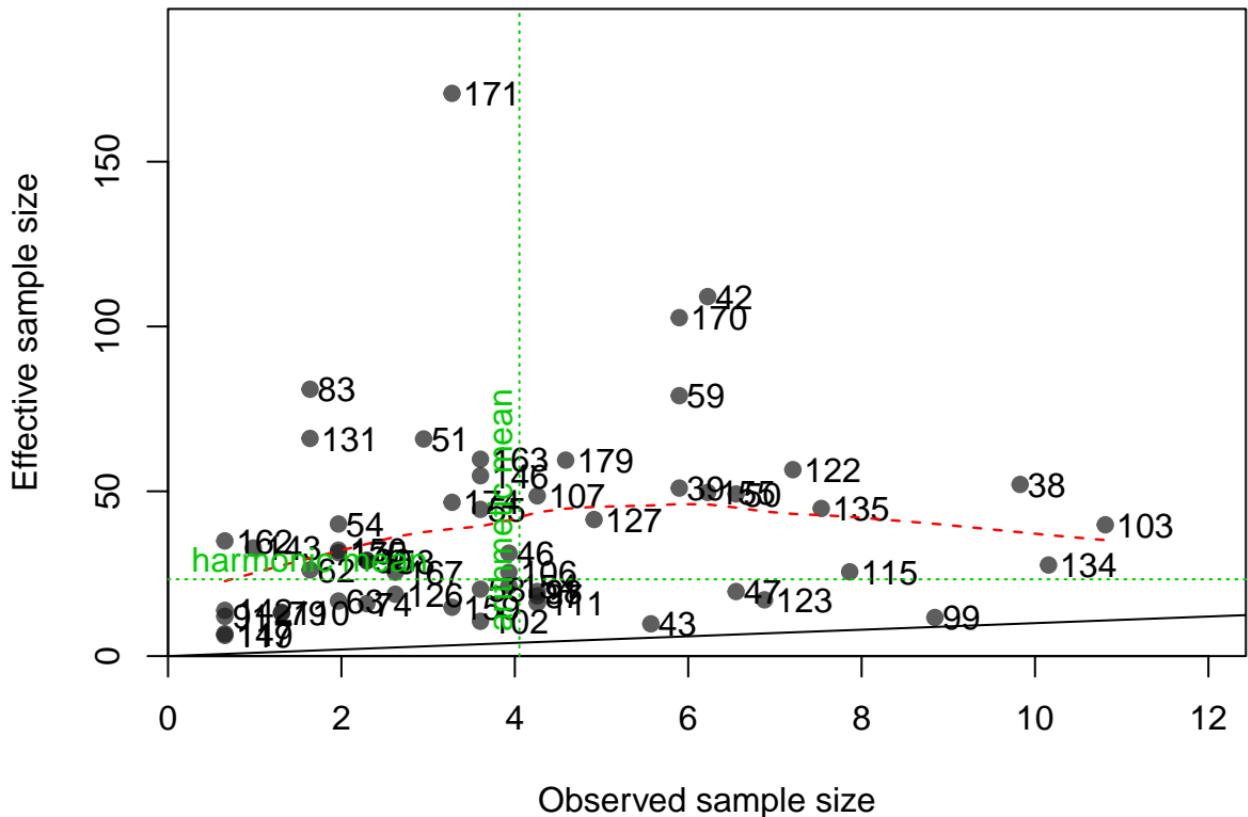
Proportion



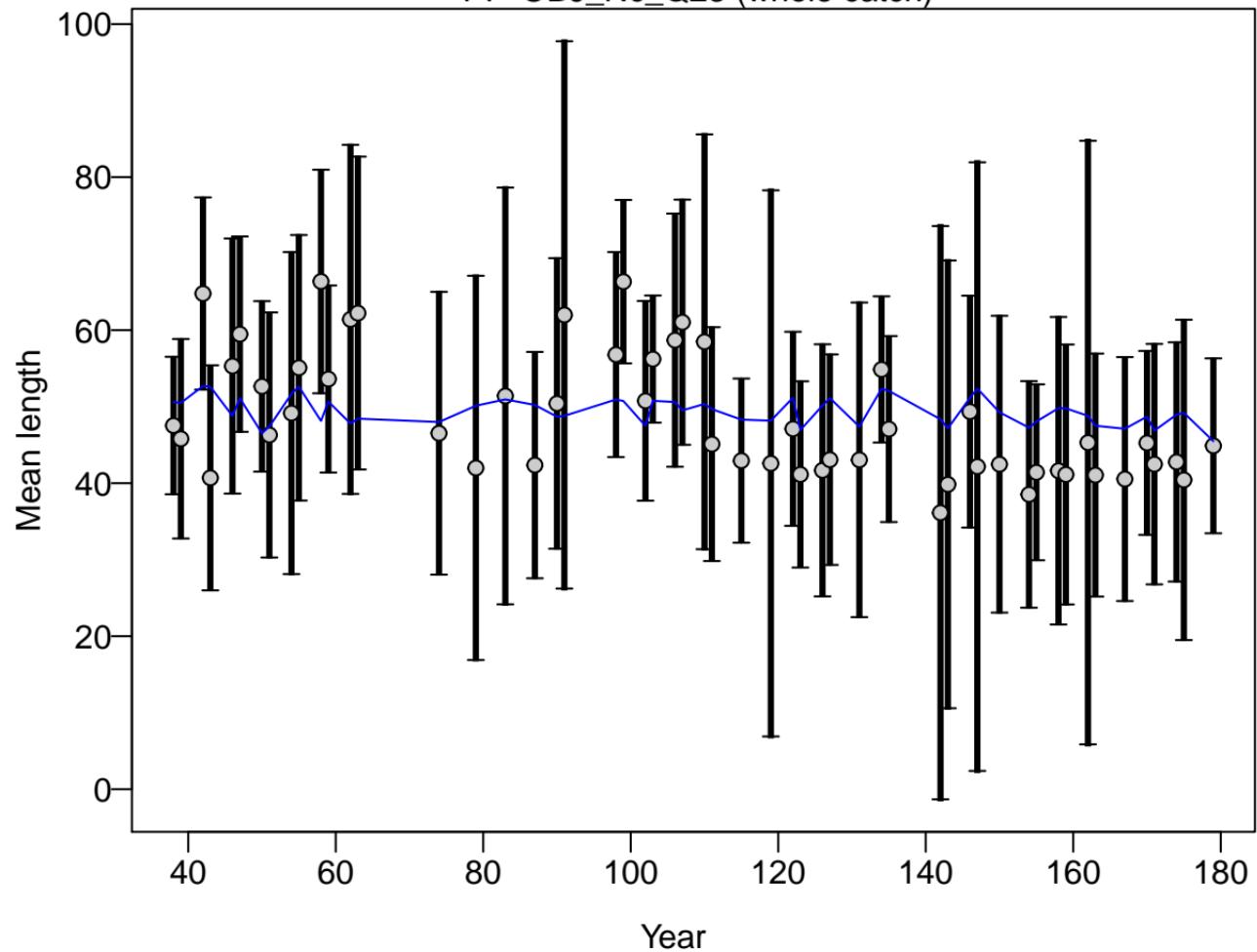
Proportion



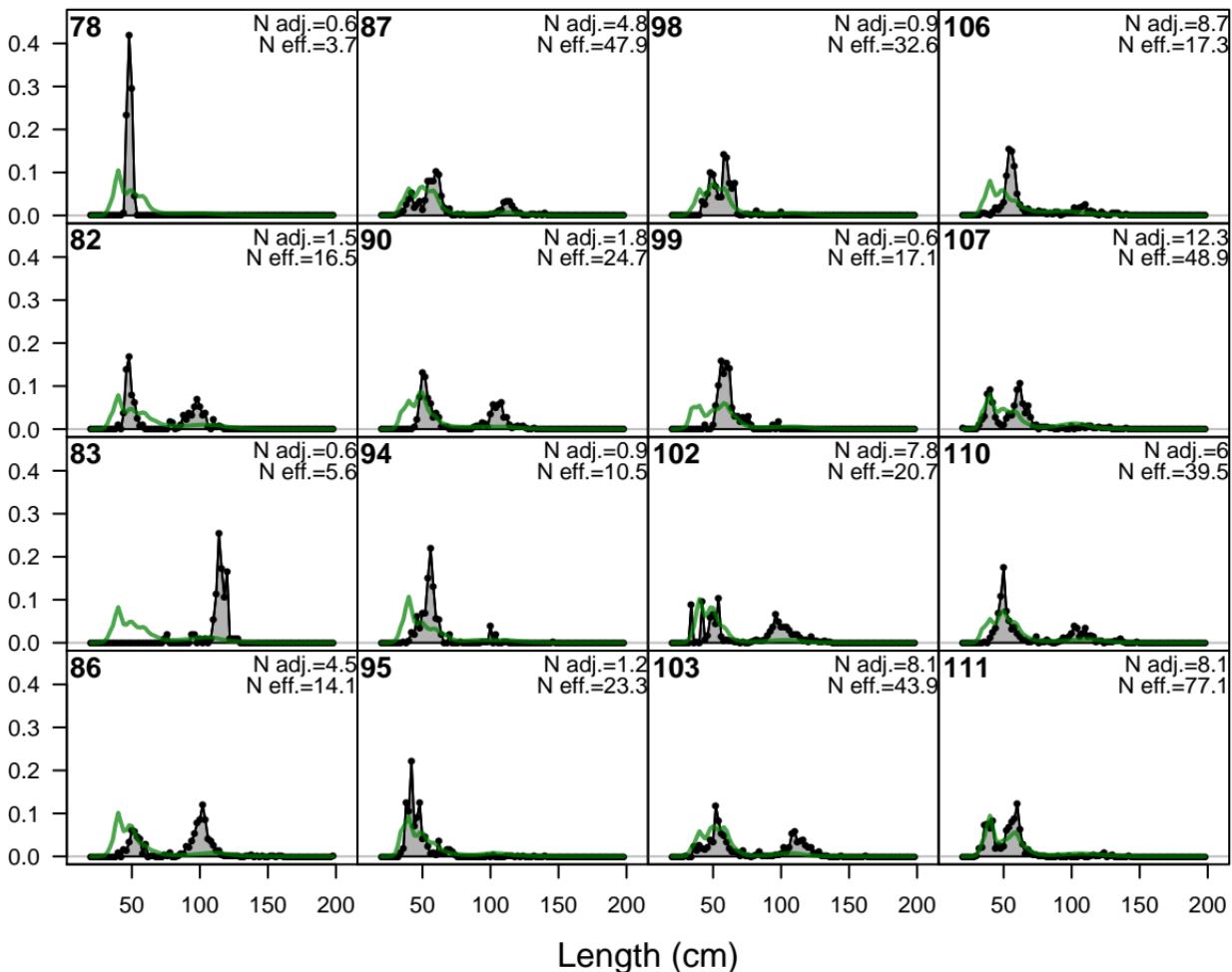




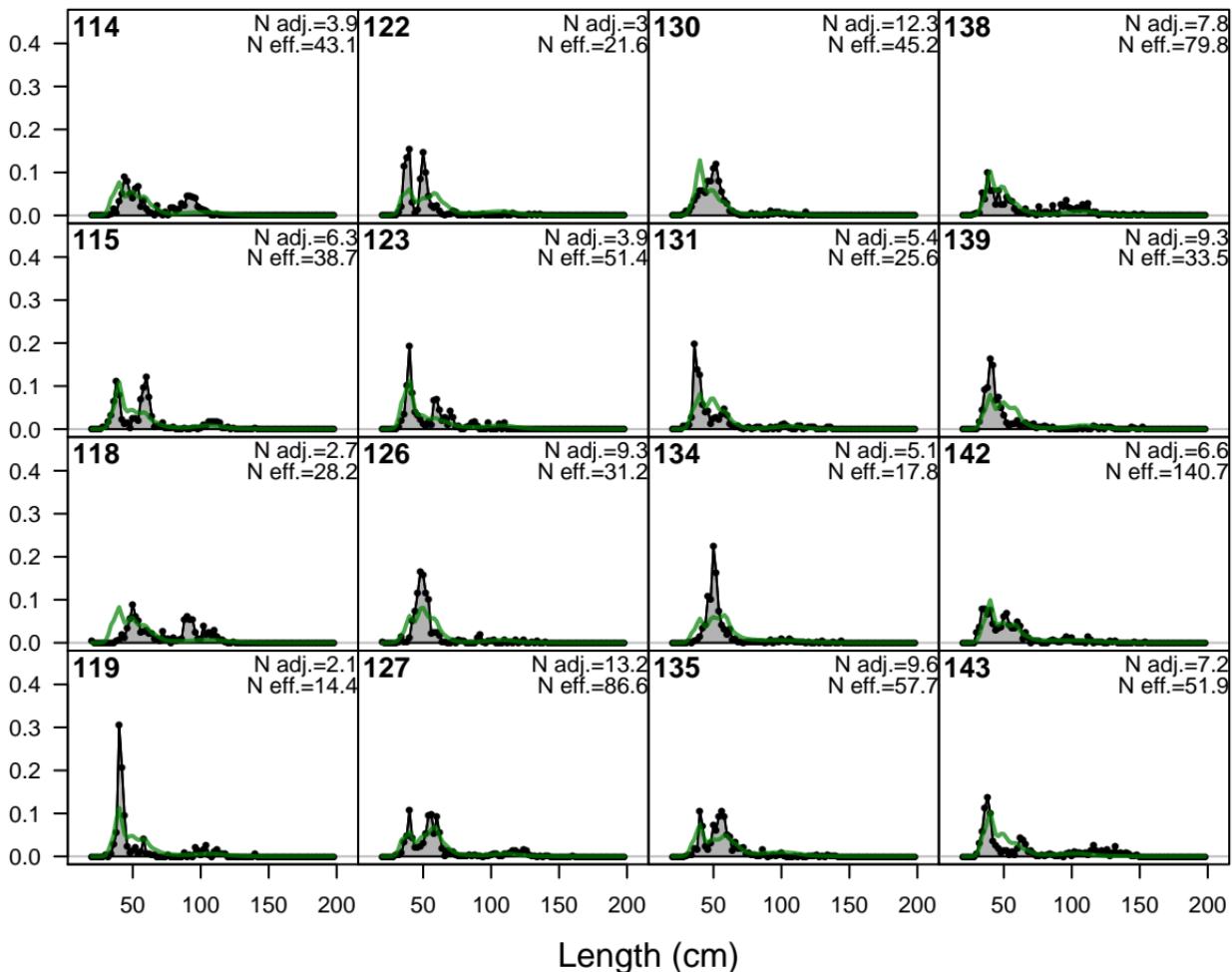
# F7-OBJ\_Nc\_Q23 (whole catch)



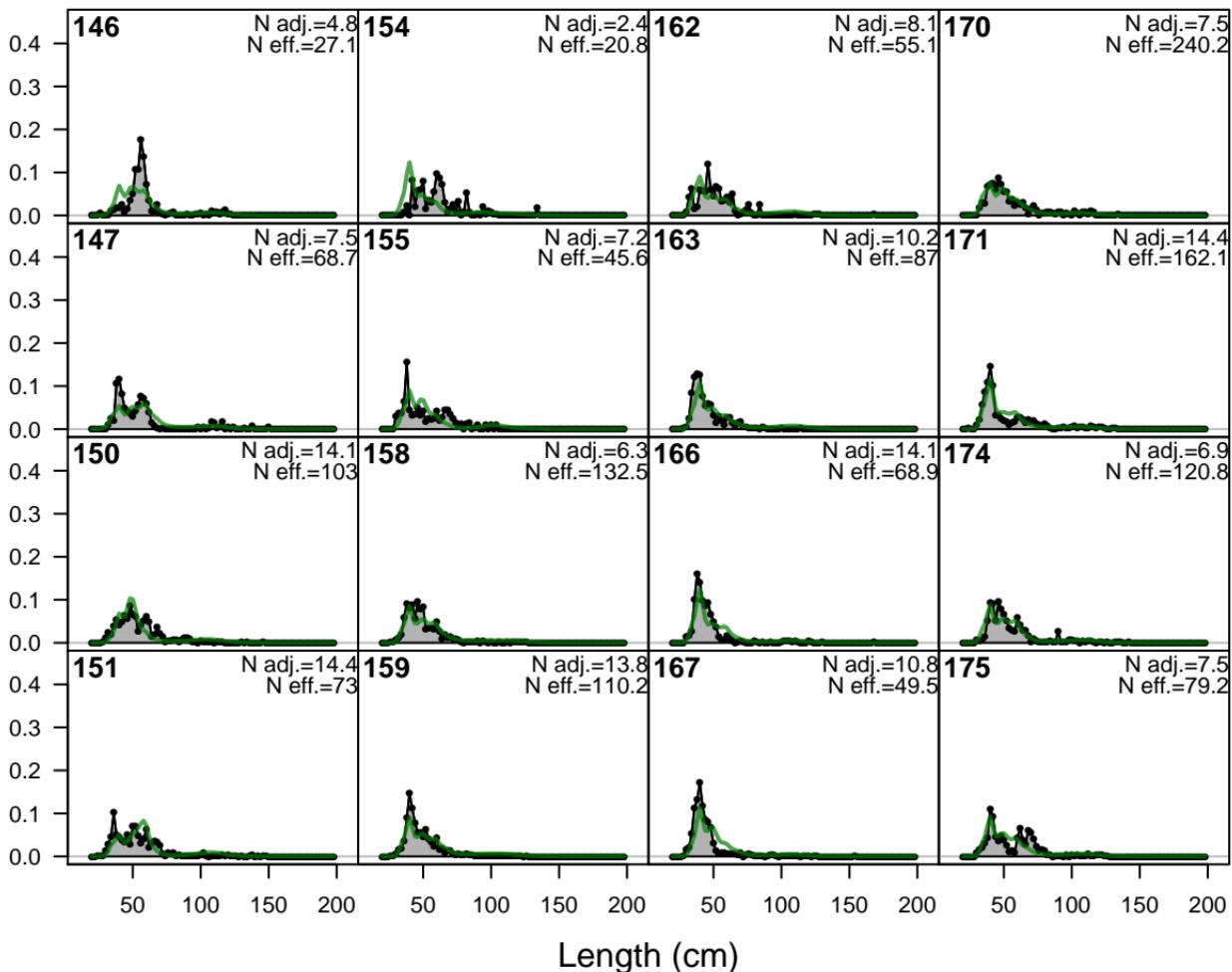
Proportion



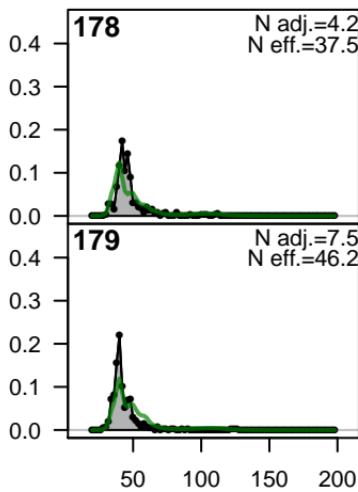
Proportion

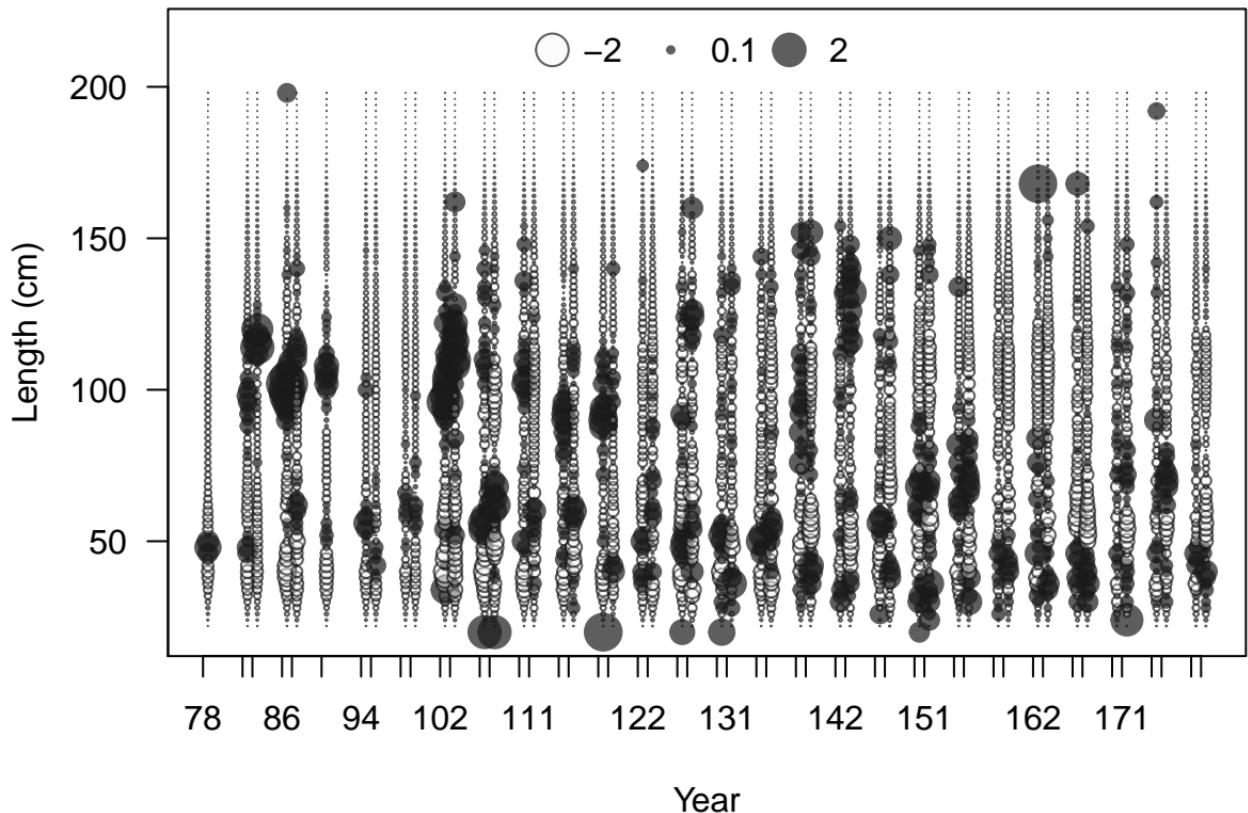


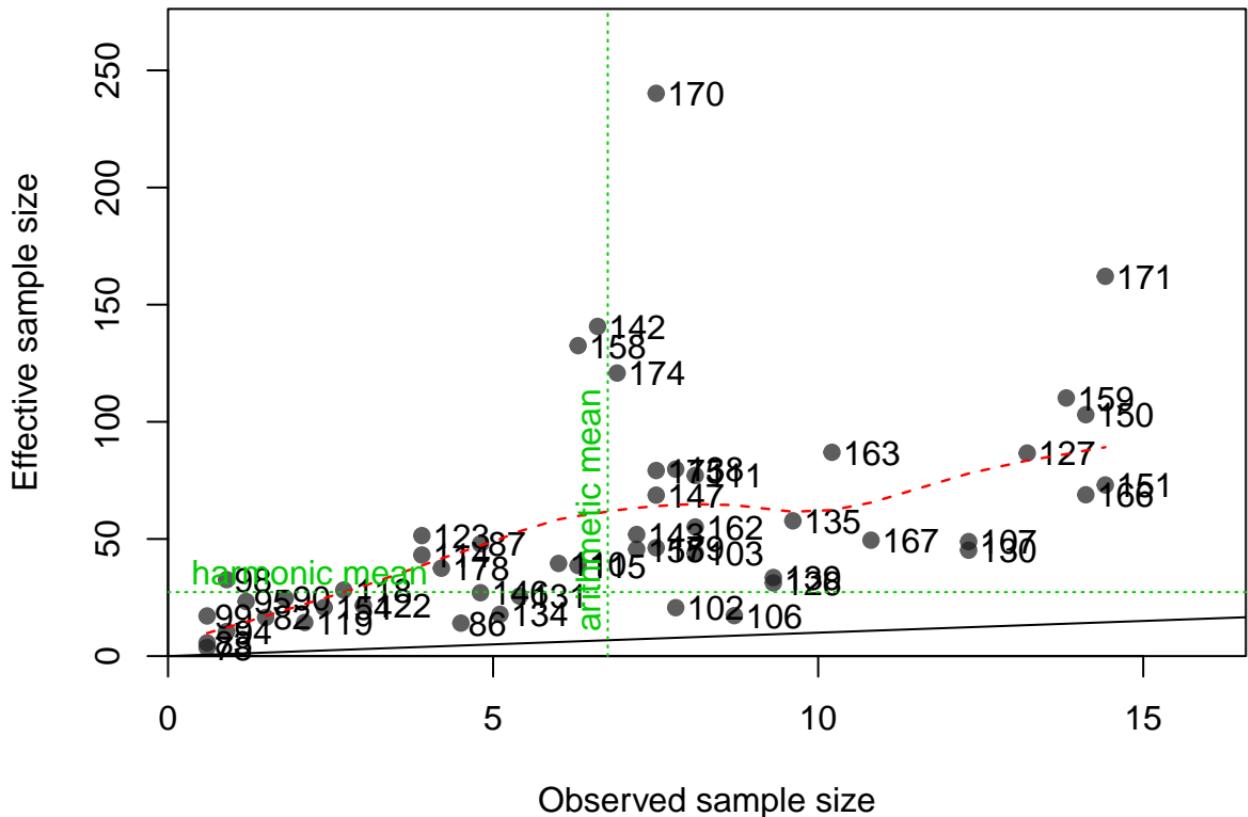
Proportion



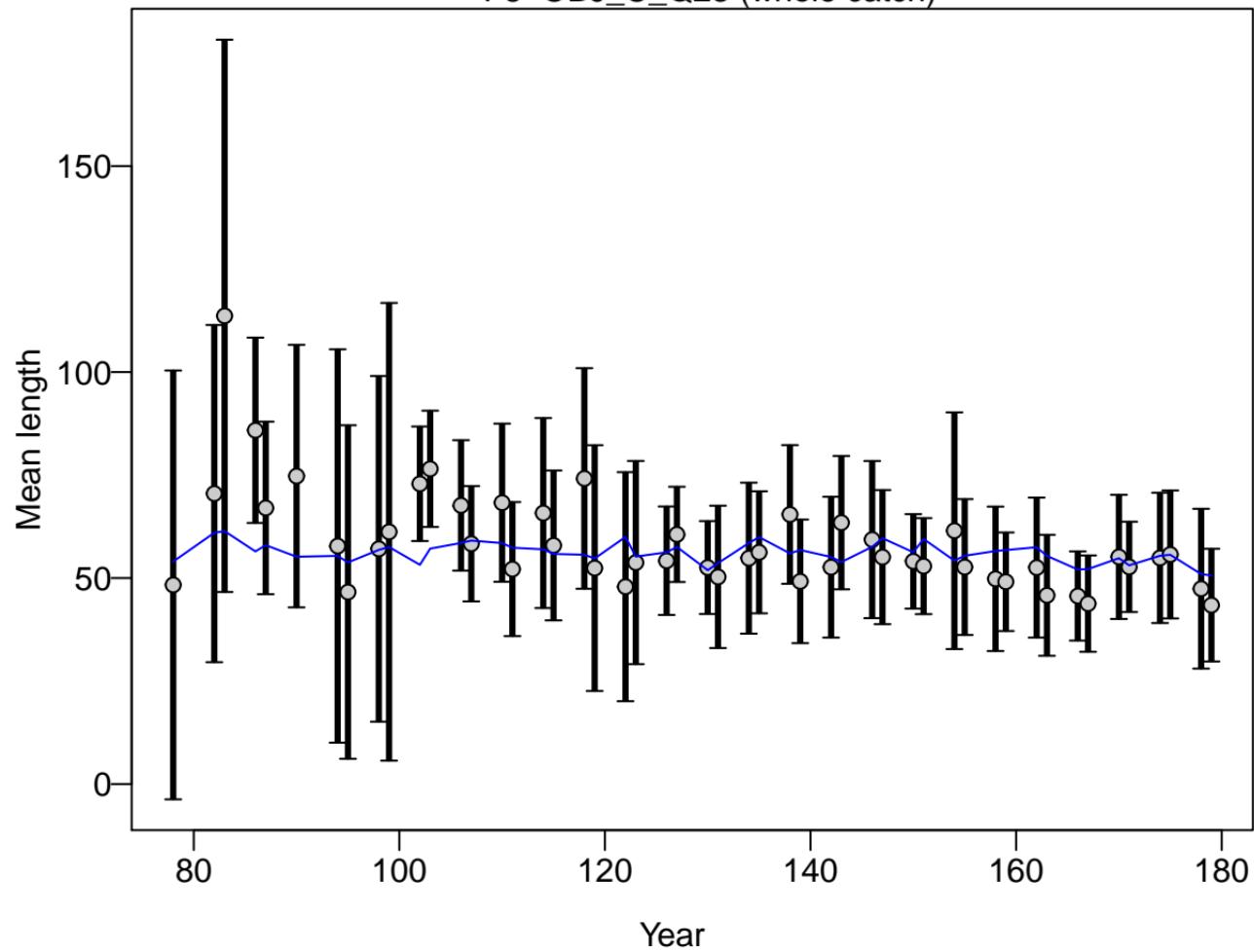
Proportion



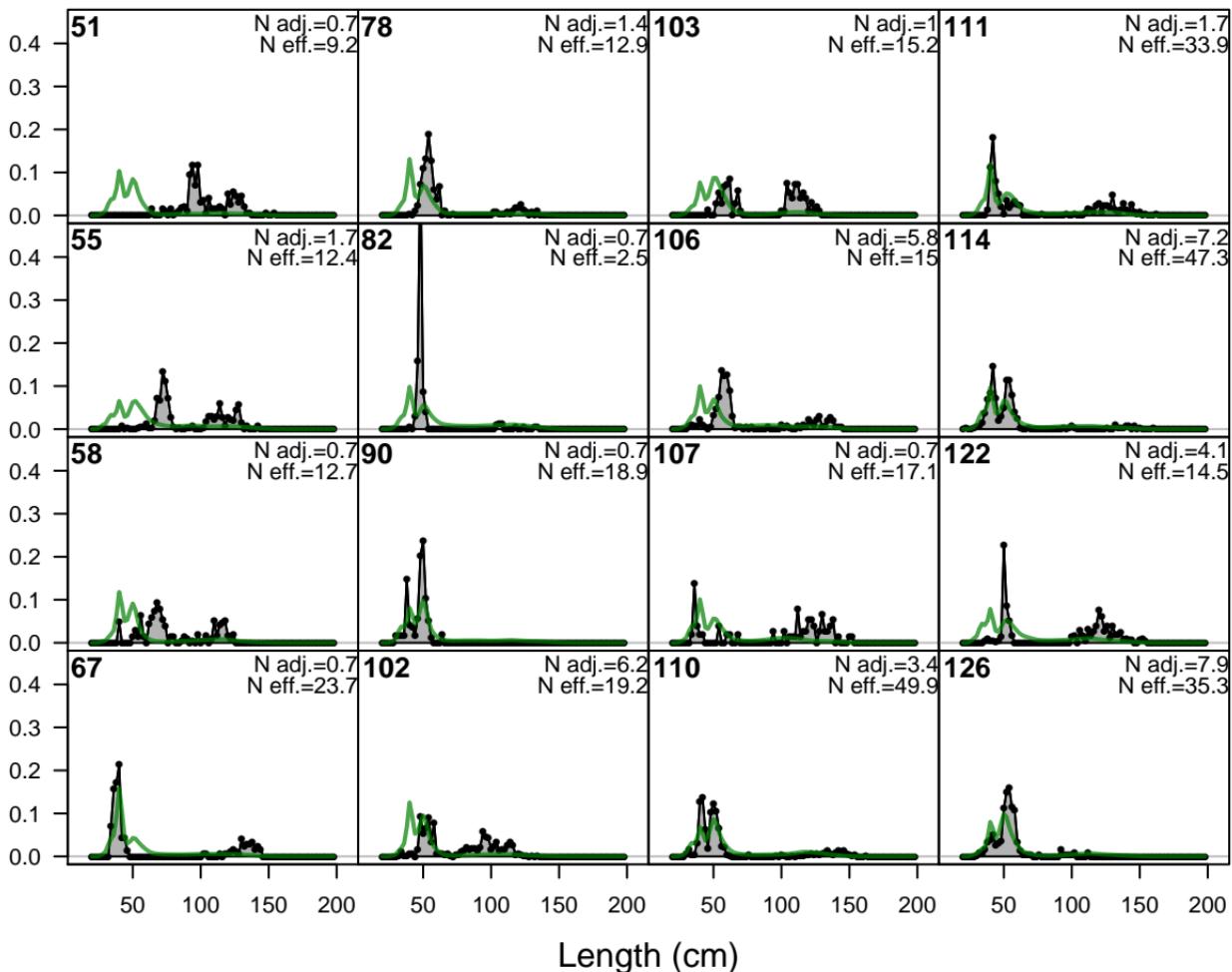




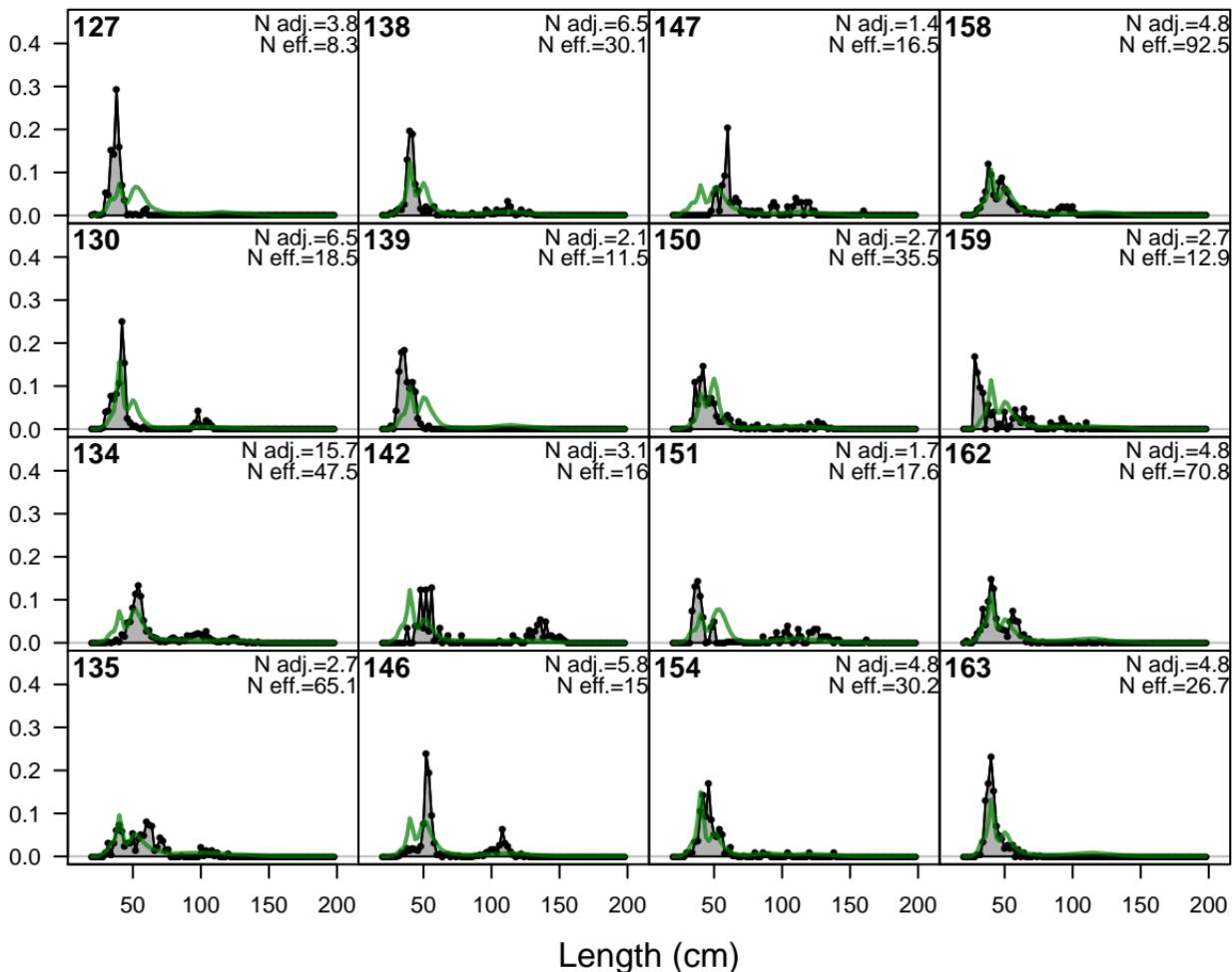
### F8-OBJ\_C\_Q23 (whole catch)



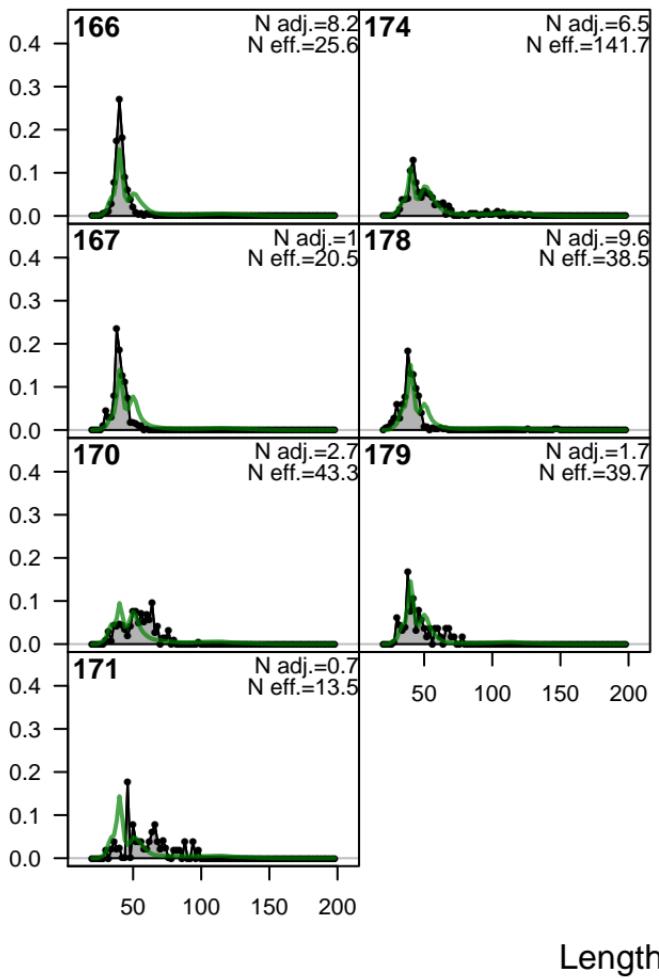
Proportion

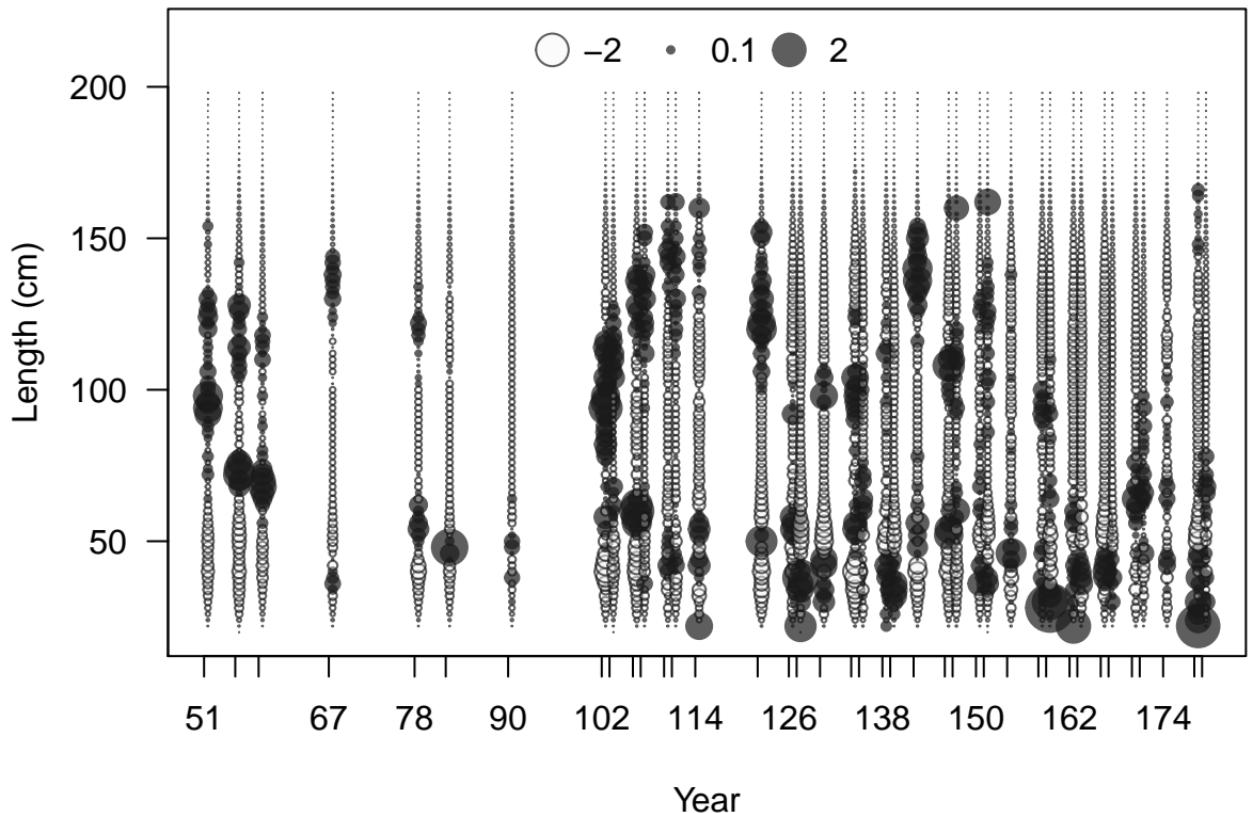


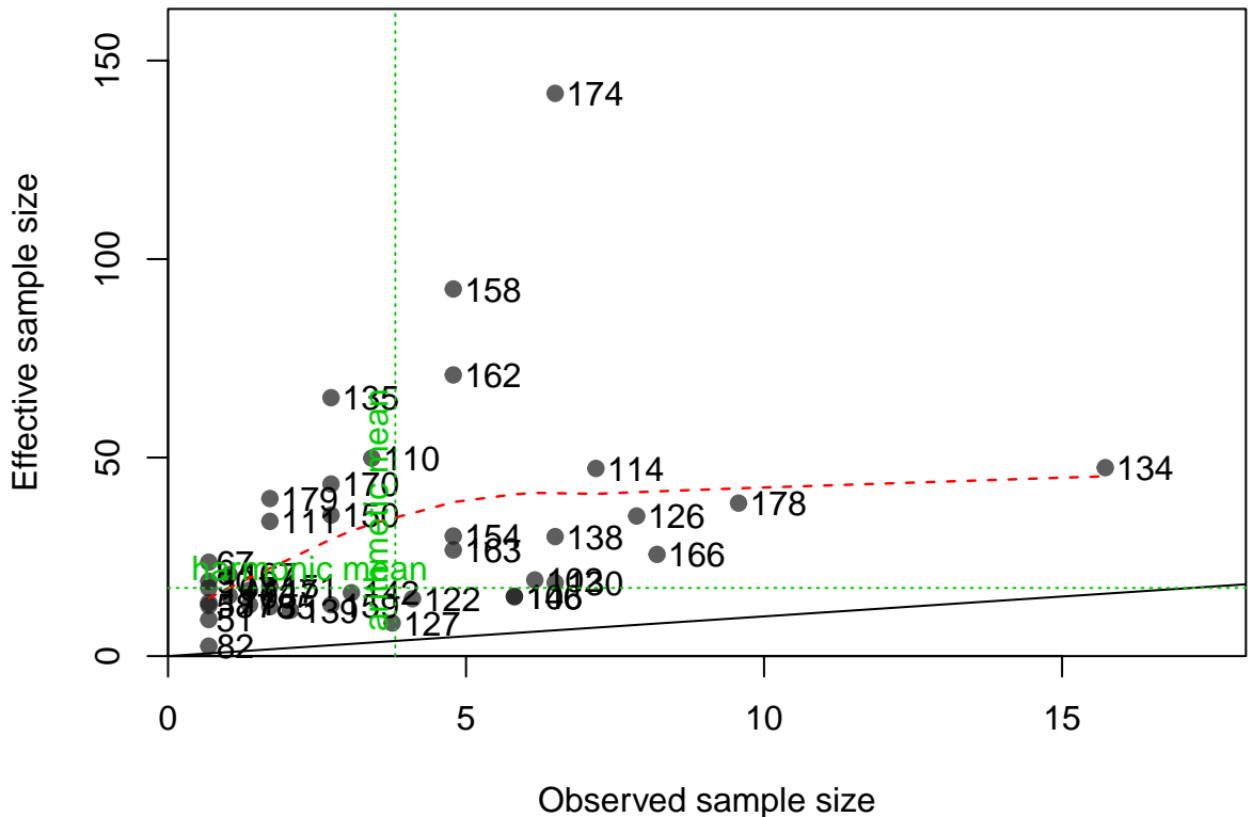
Proportion



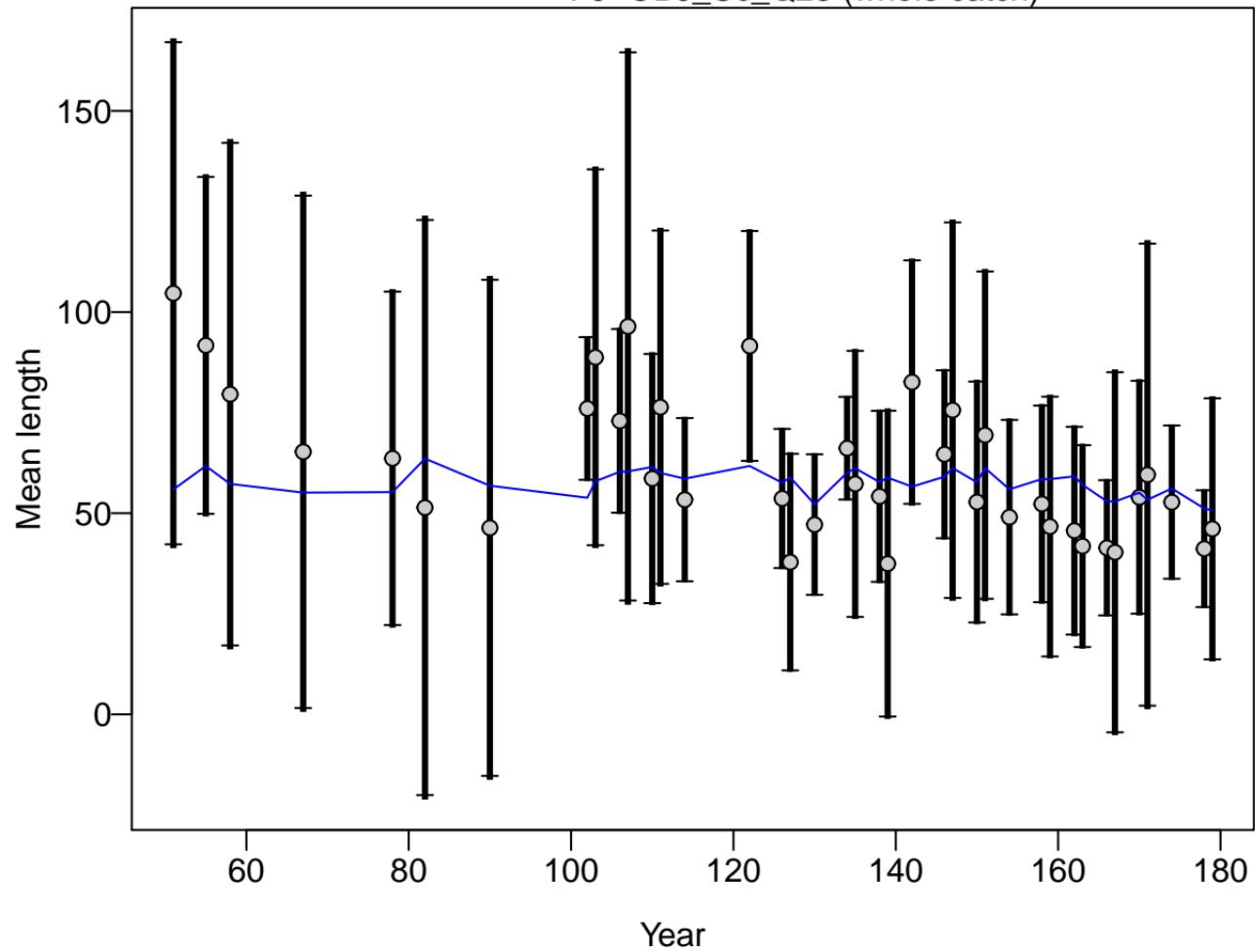
Proportion



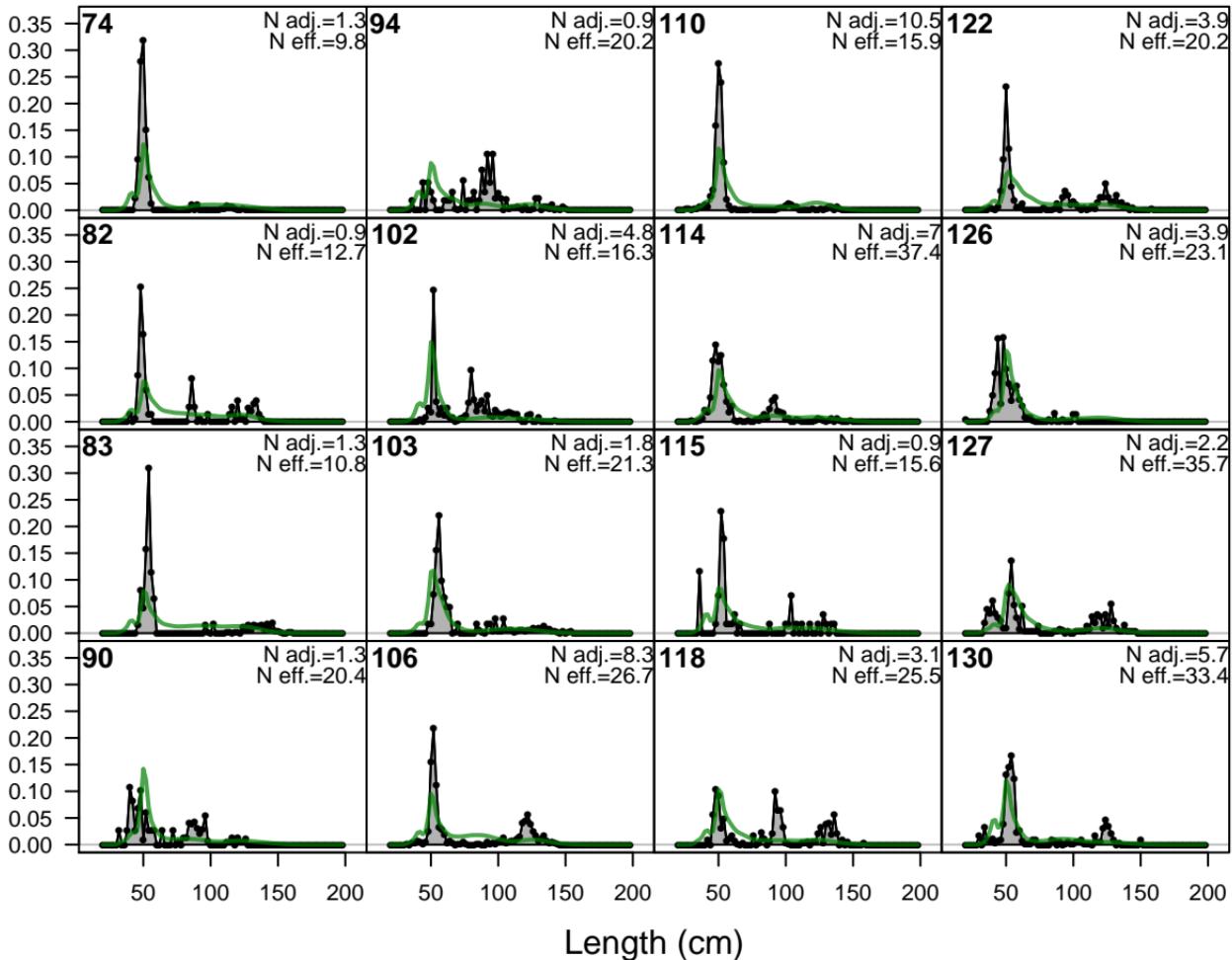




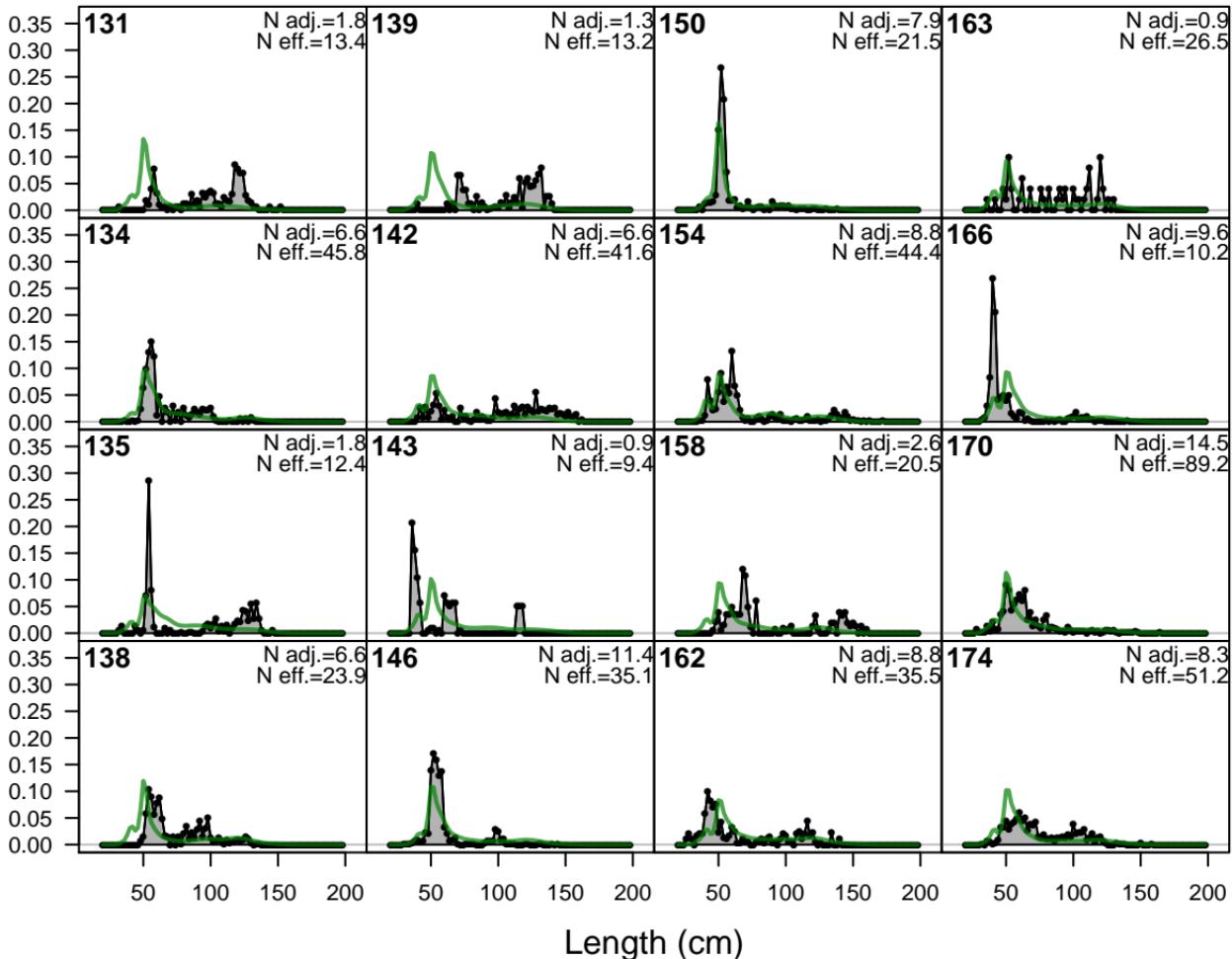
# F9-OBJ\_Cc\_Q23 (whole catch)



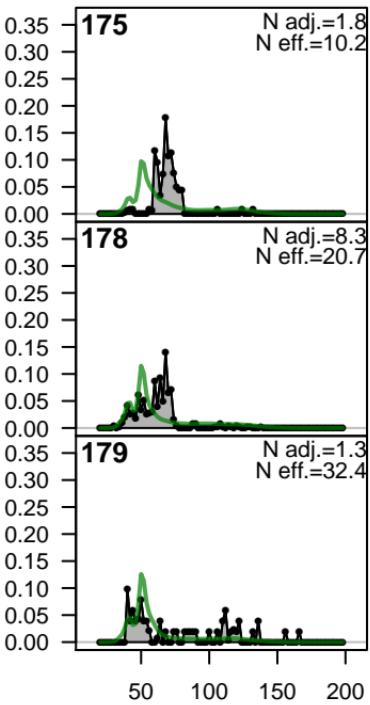
Proportion



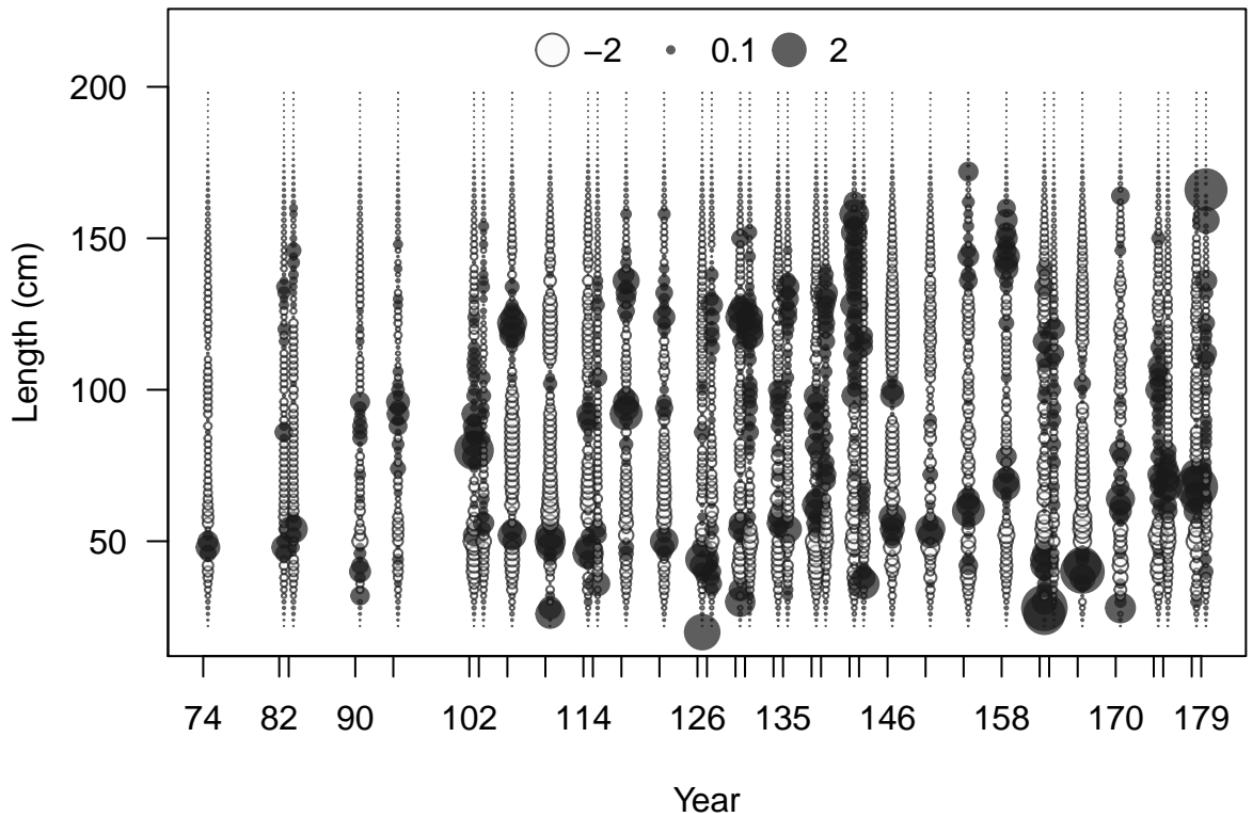
Proportion

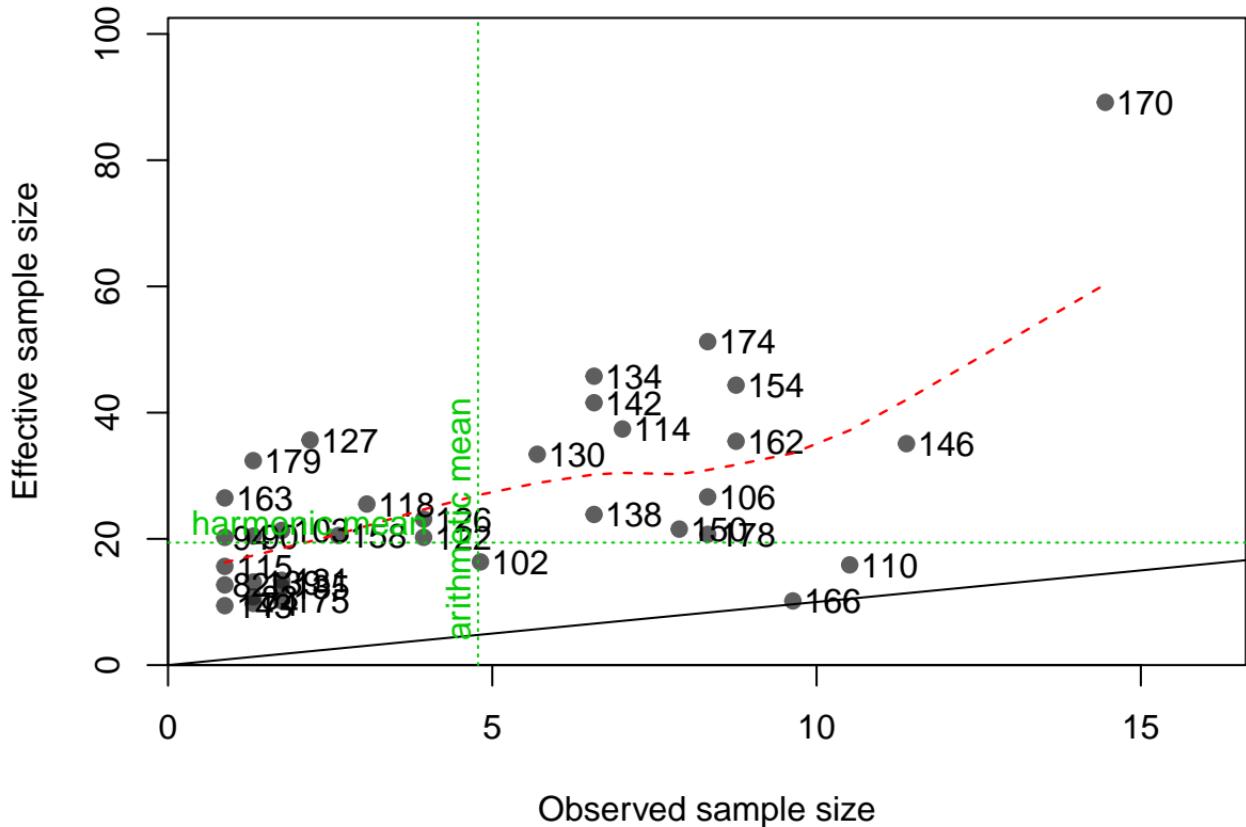


Proportion

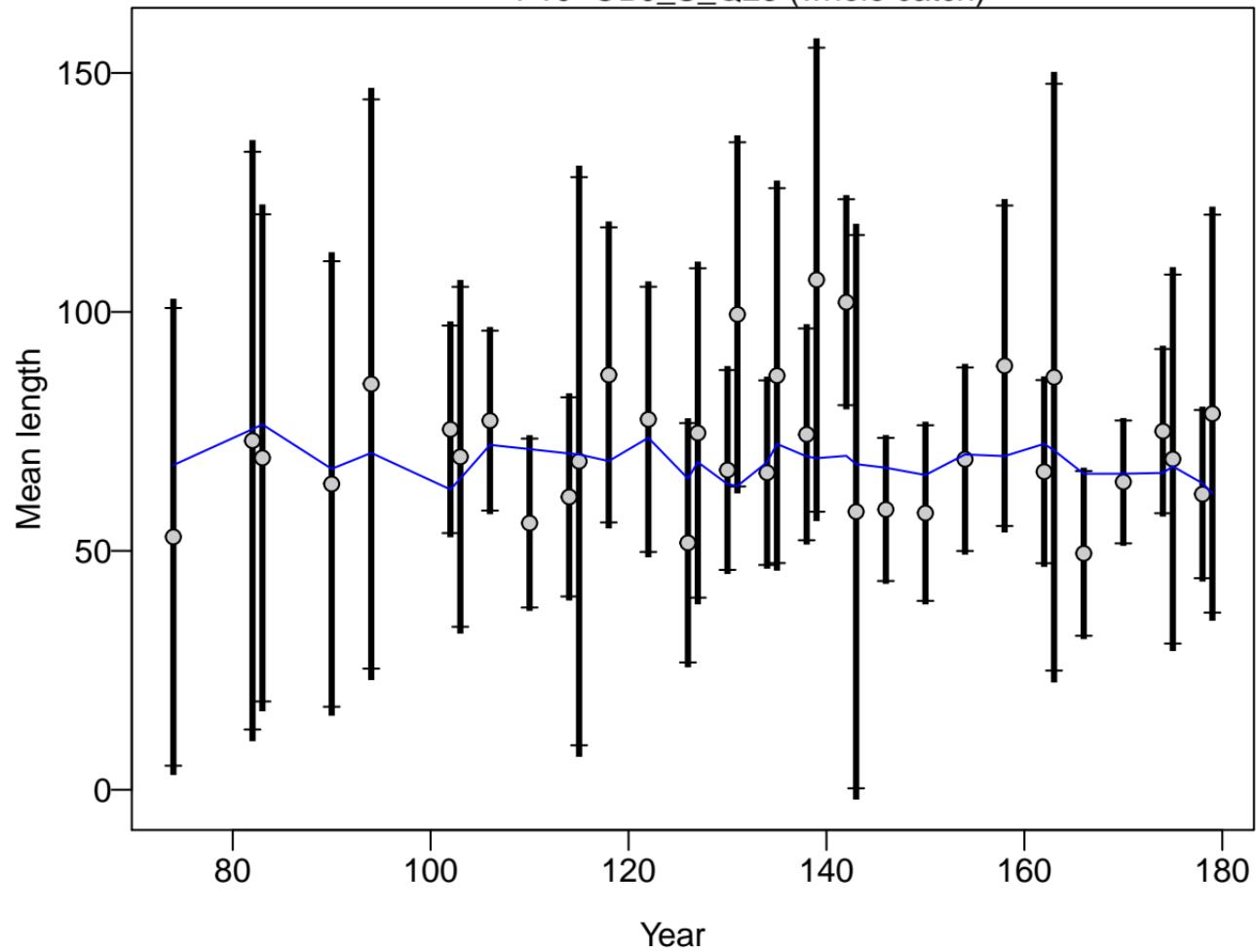


Length (cm)

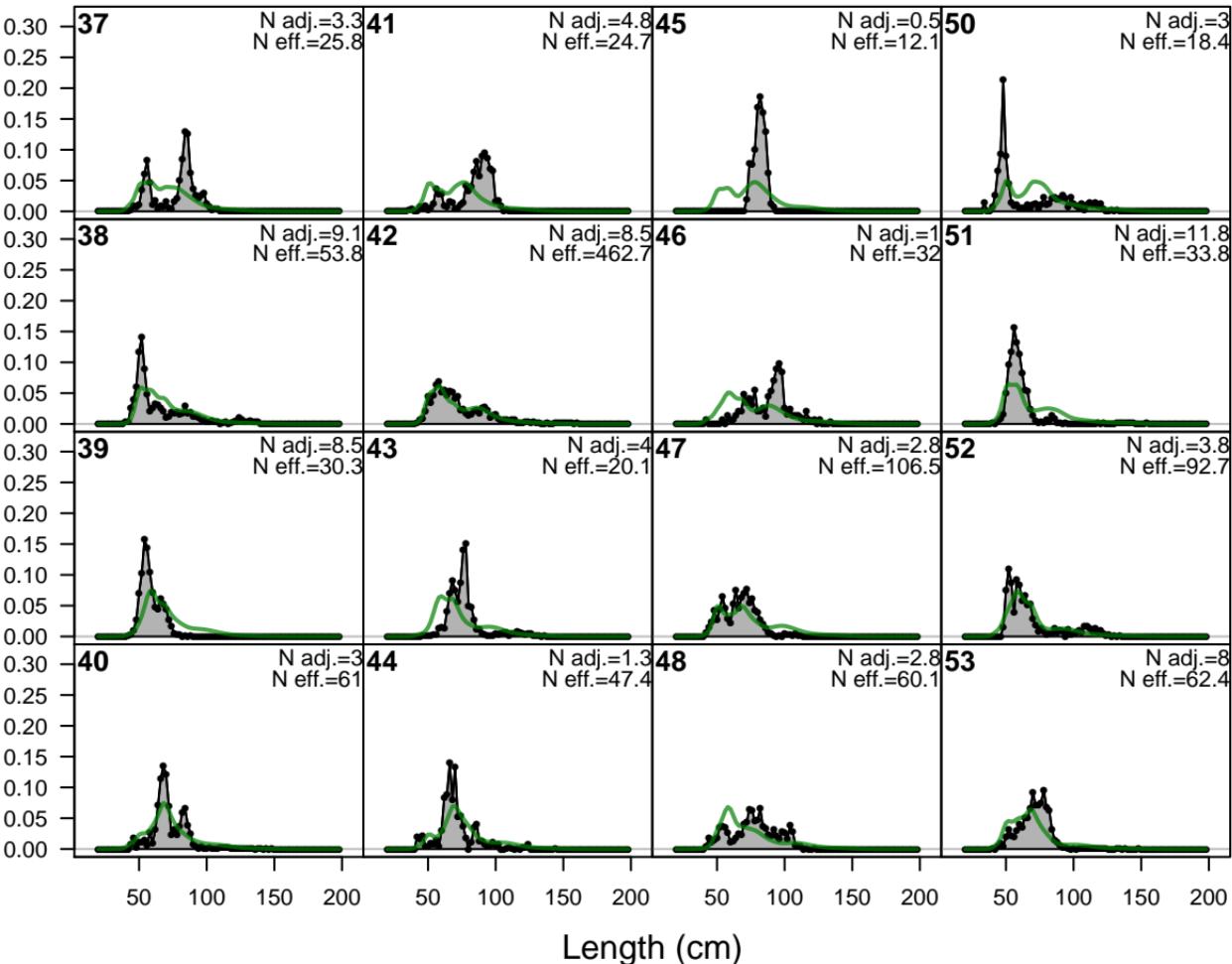




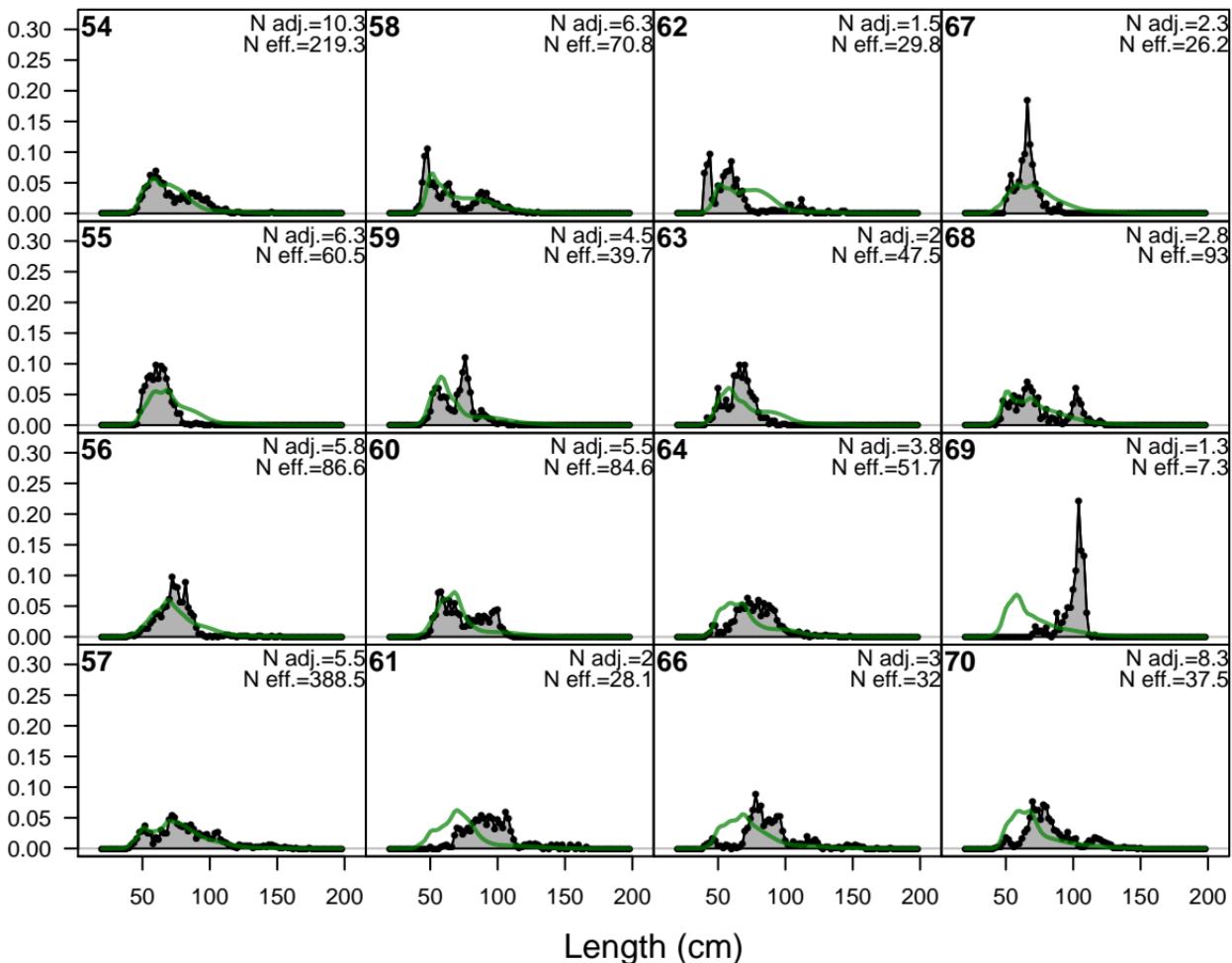
# F10-OBJ\_S\_Q23 (whole catch)



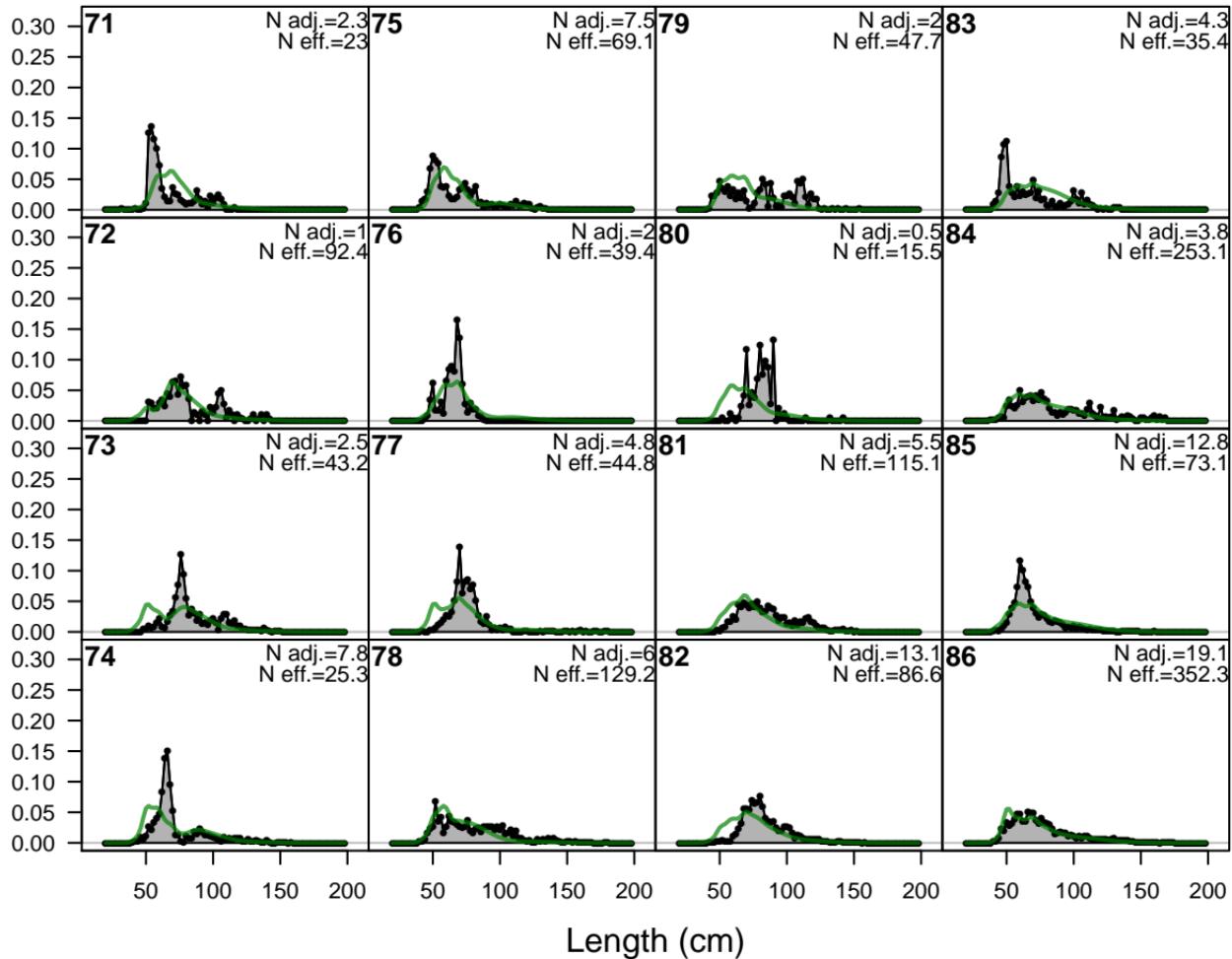
Proportion



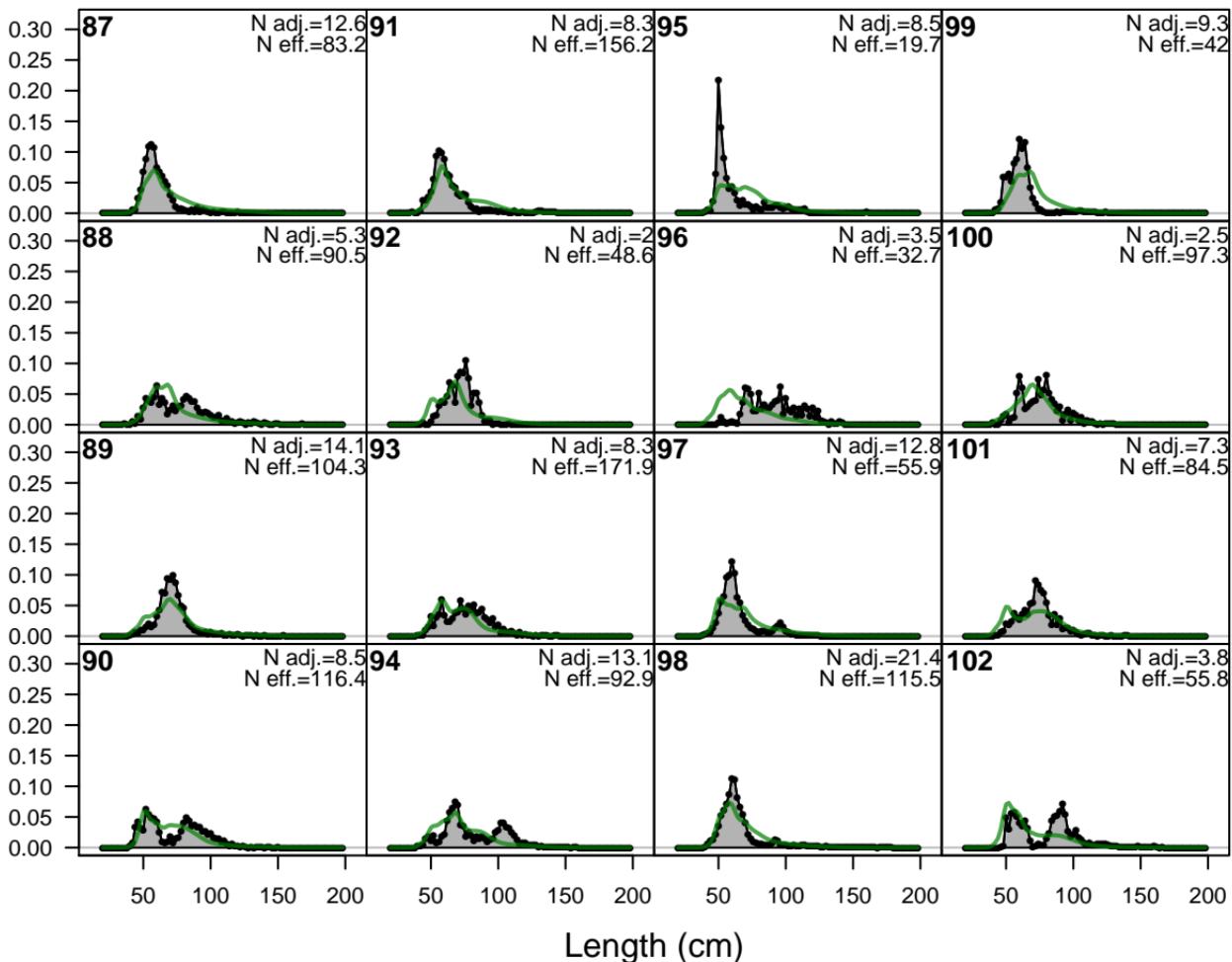
Proportion



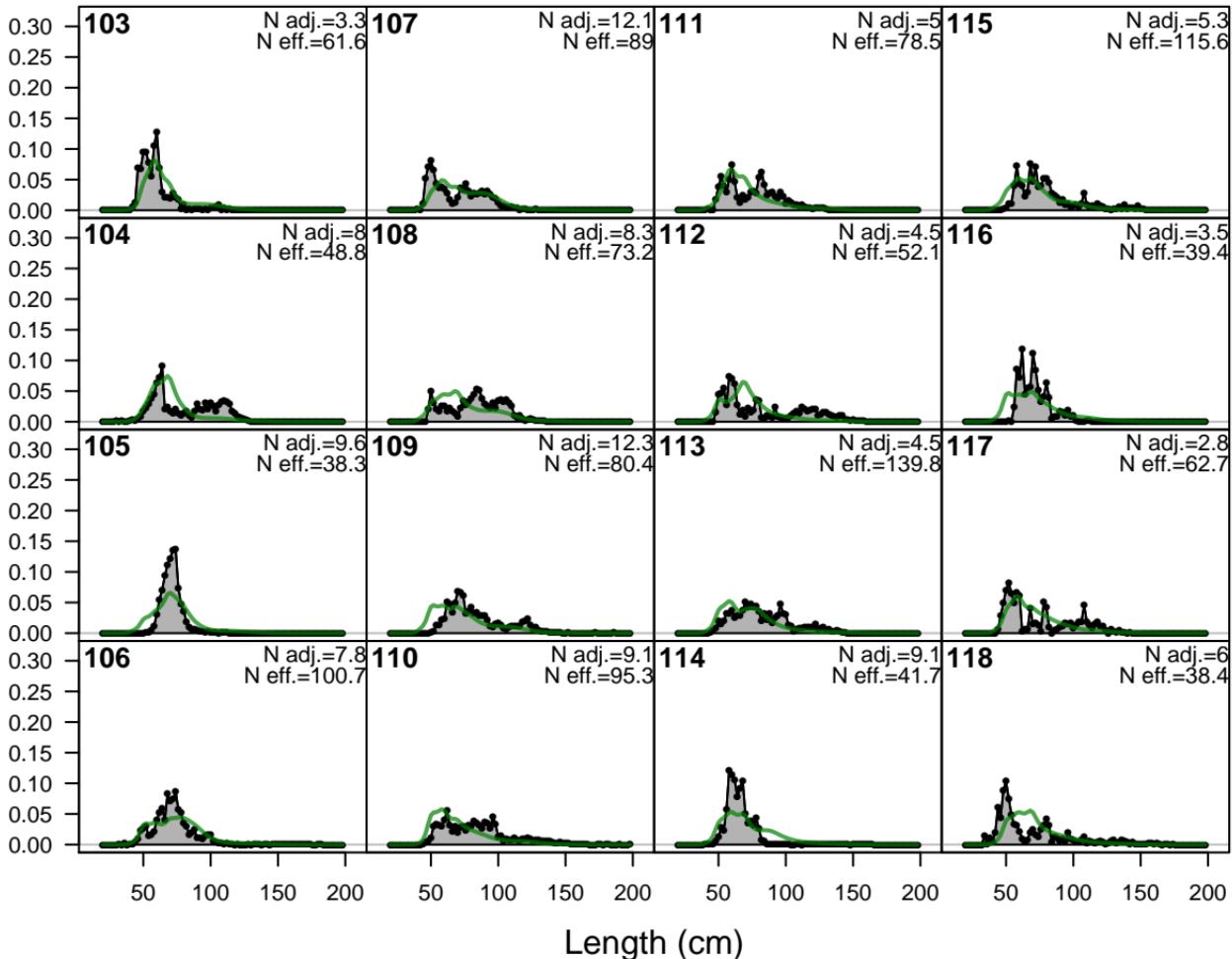
Proportion



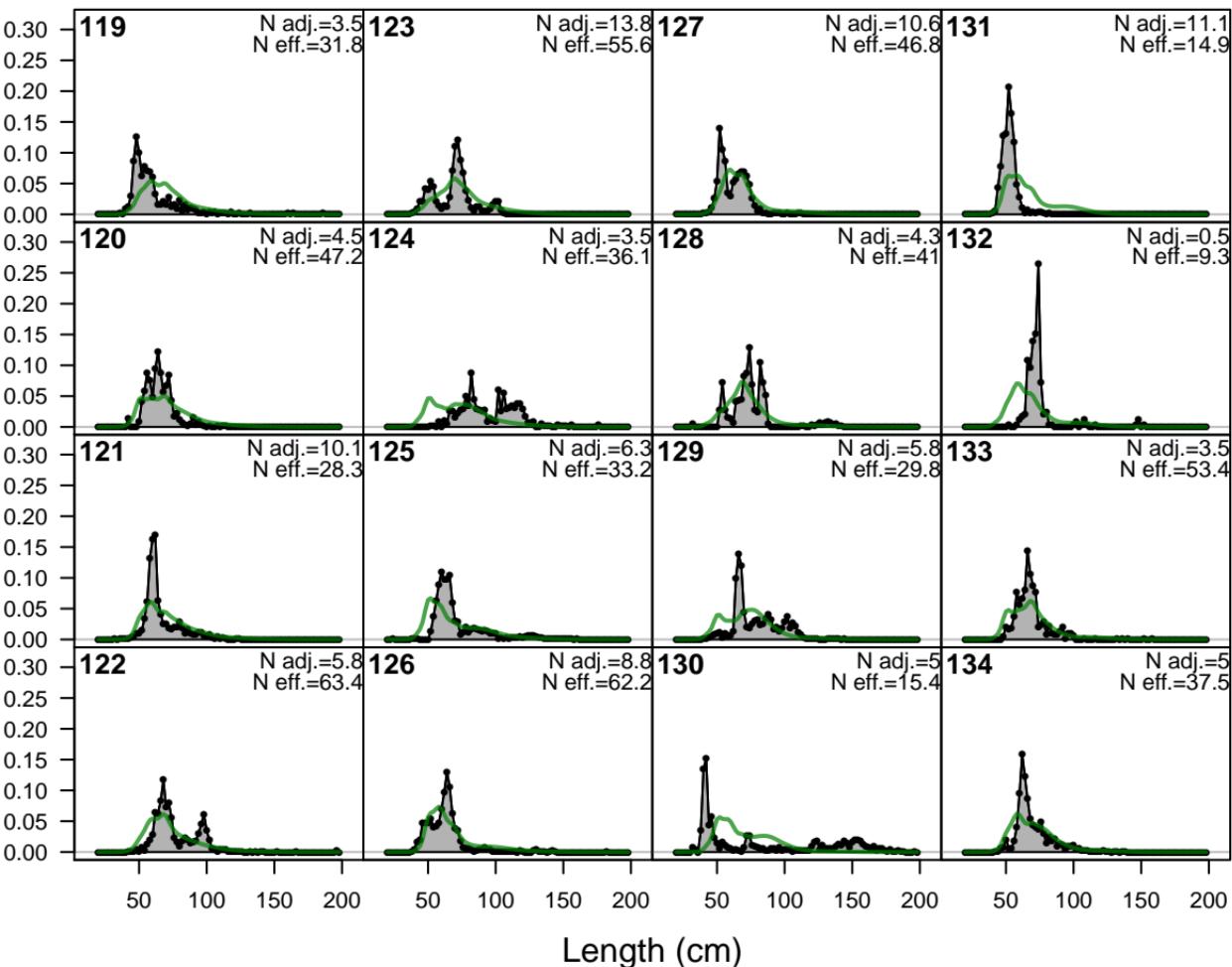
Proportion



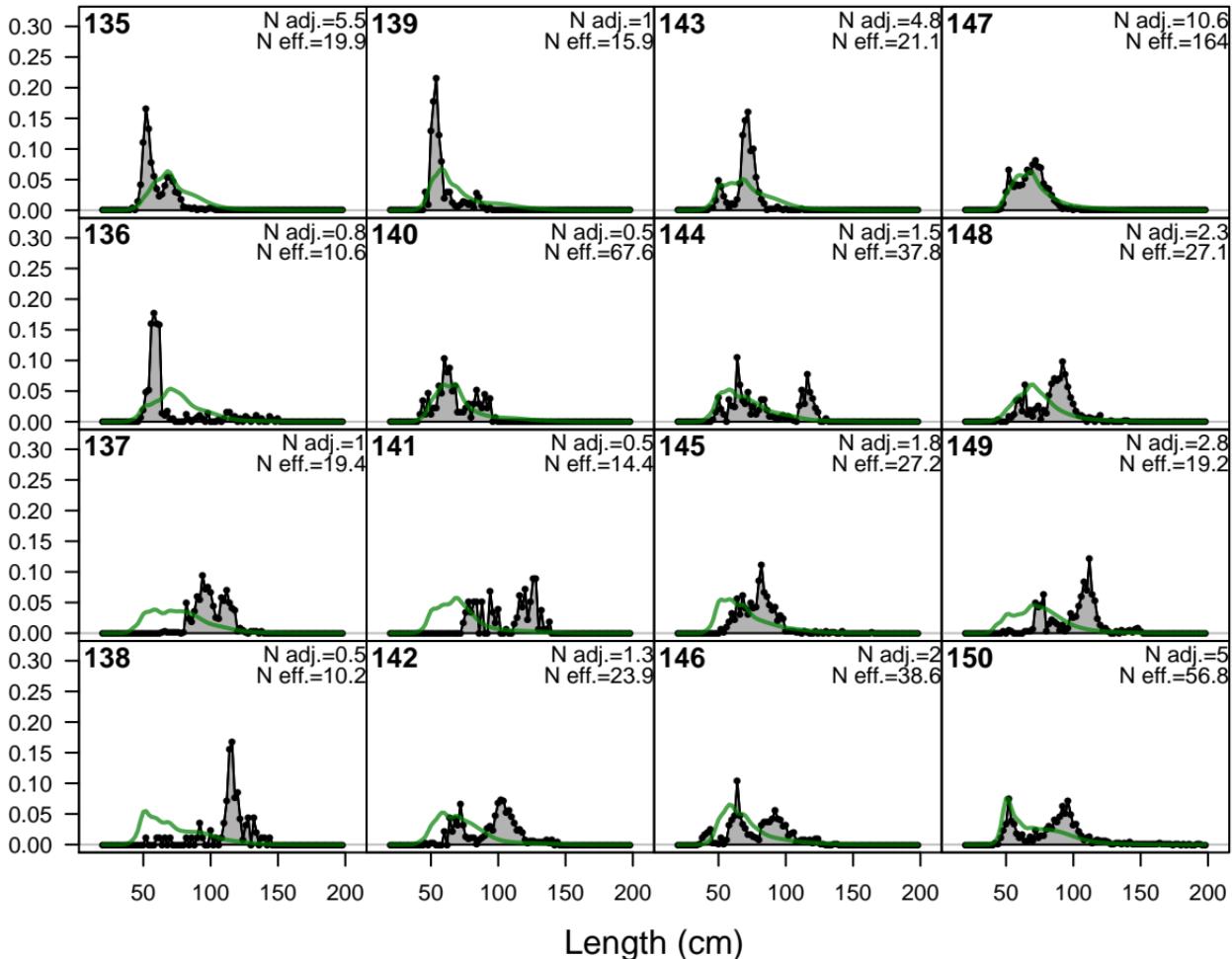
Proportion



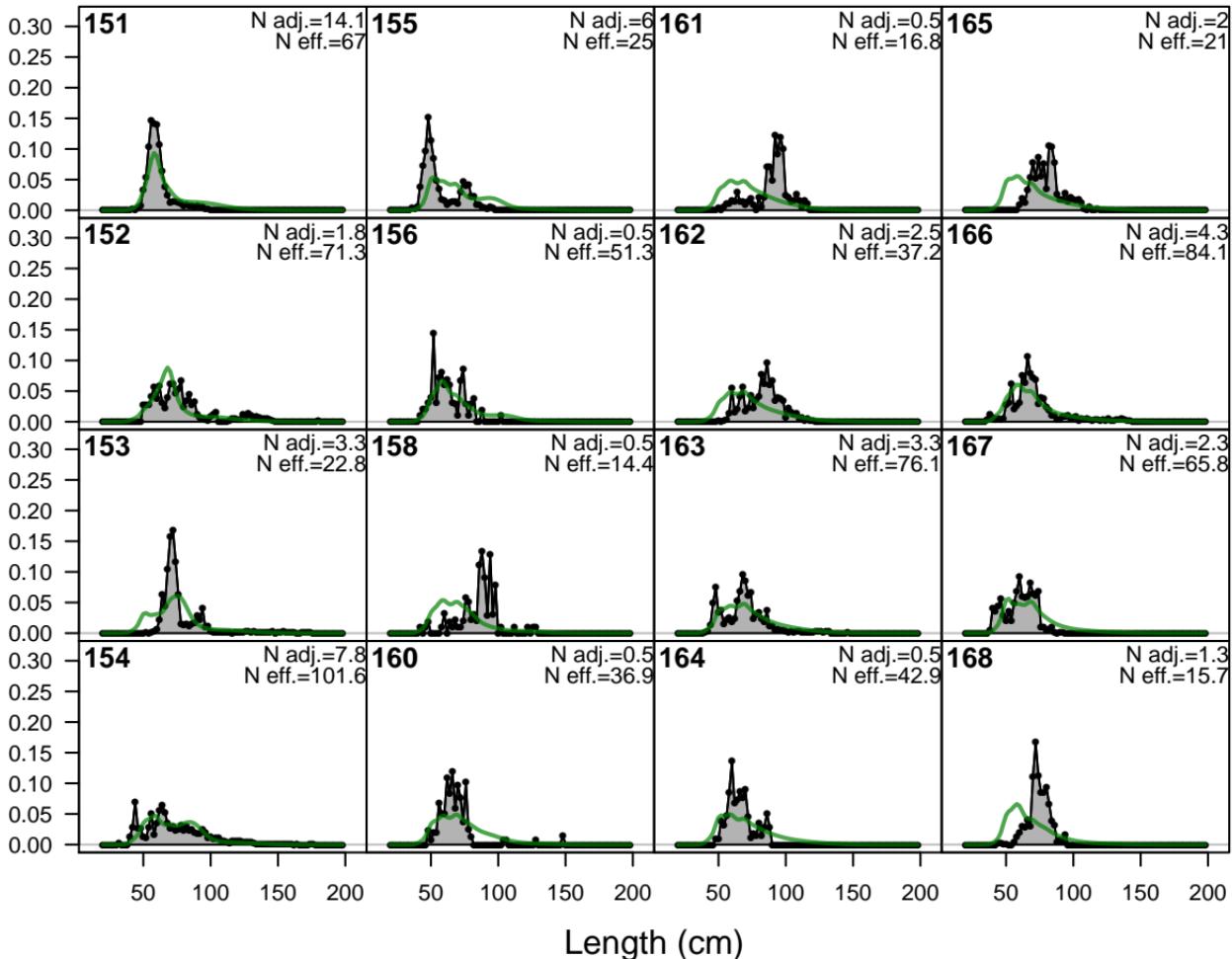
Proportion



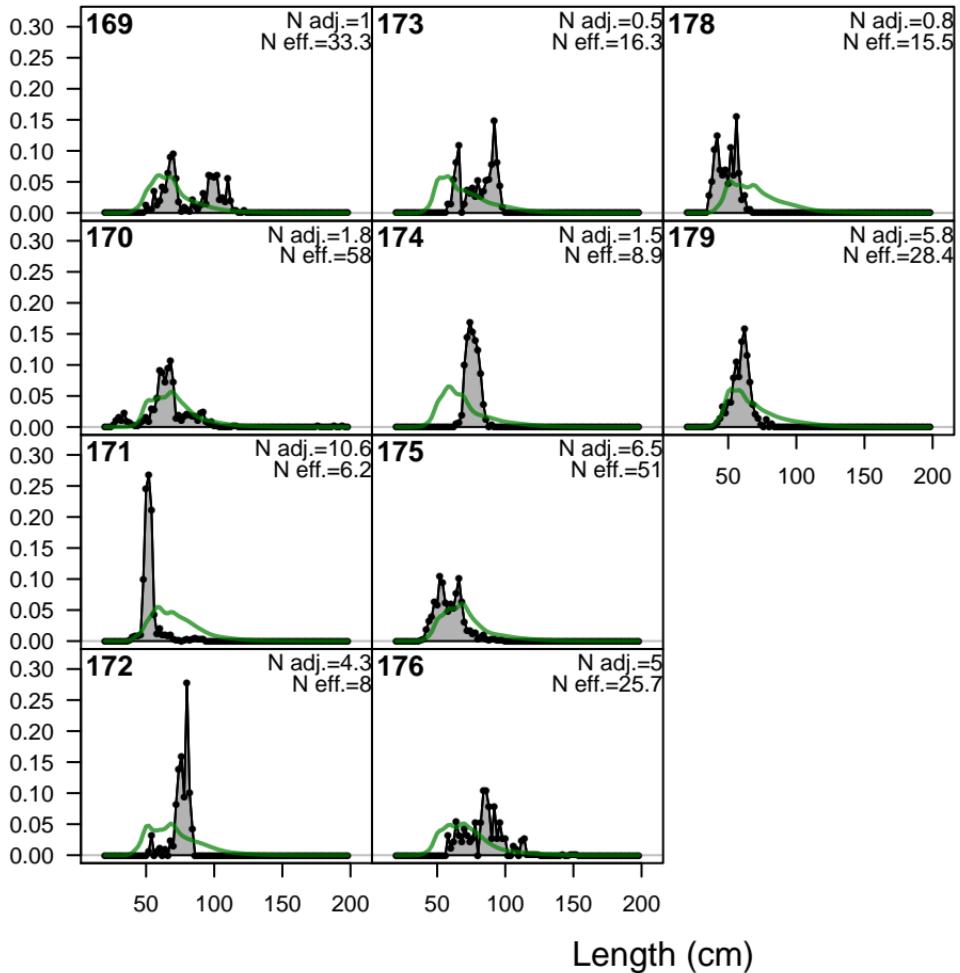
Proportion

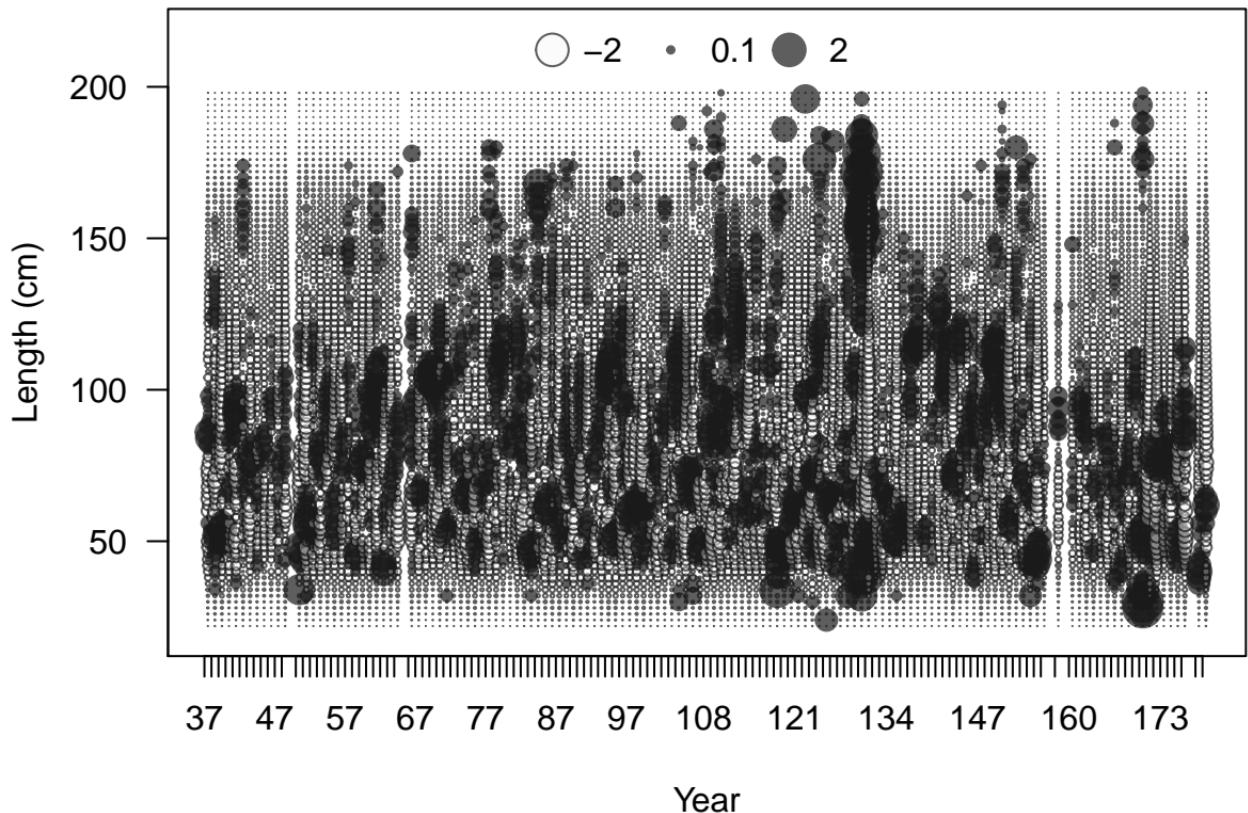


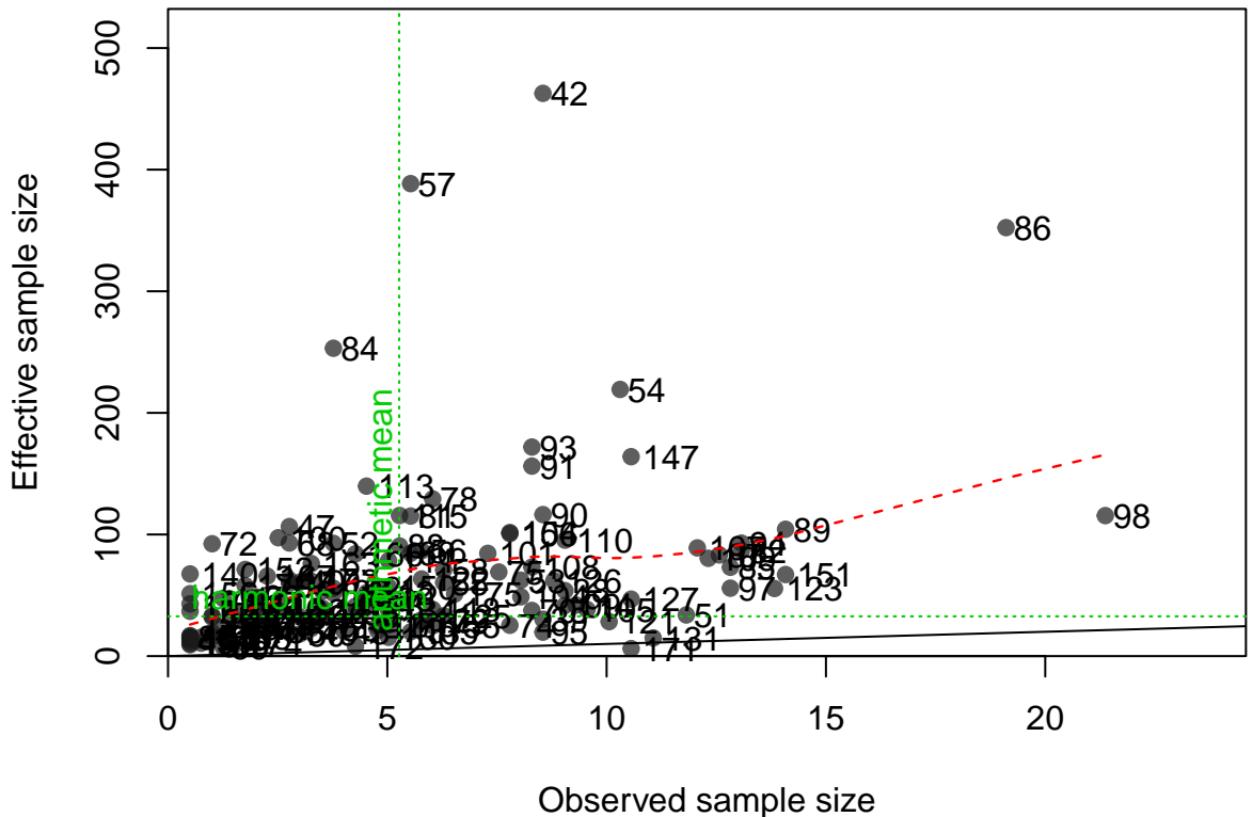
Proportion



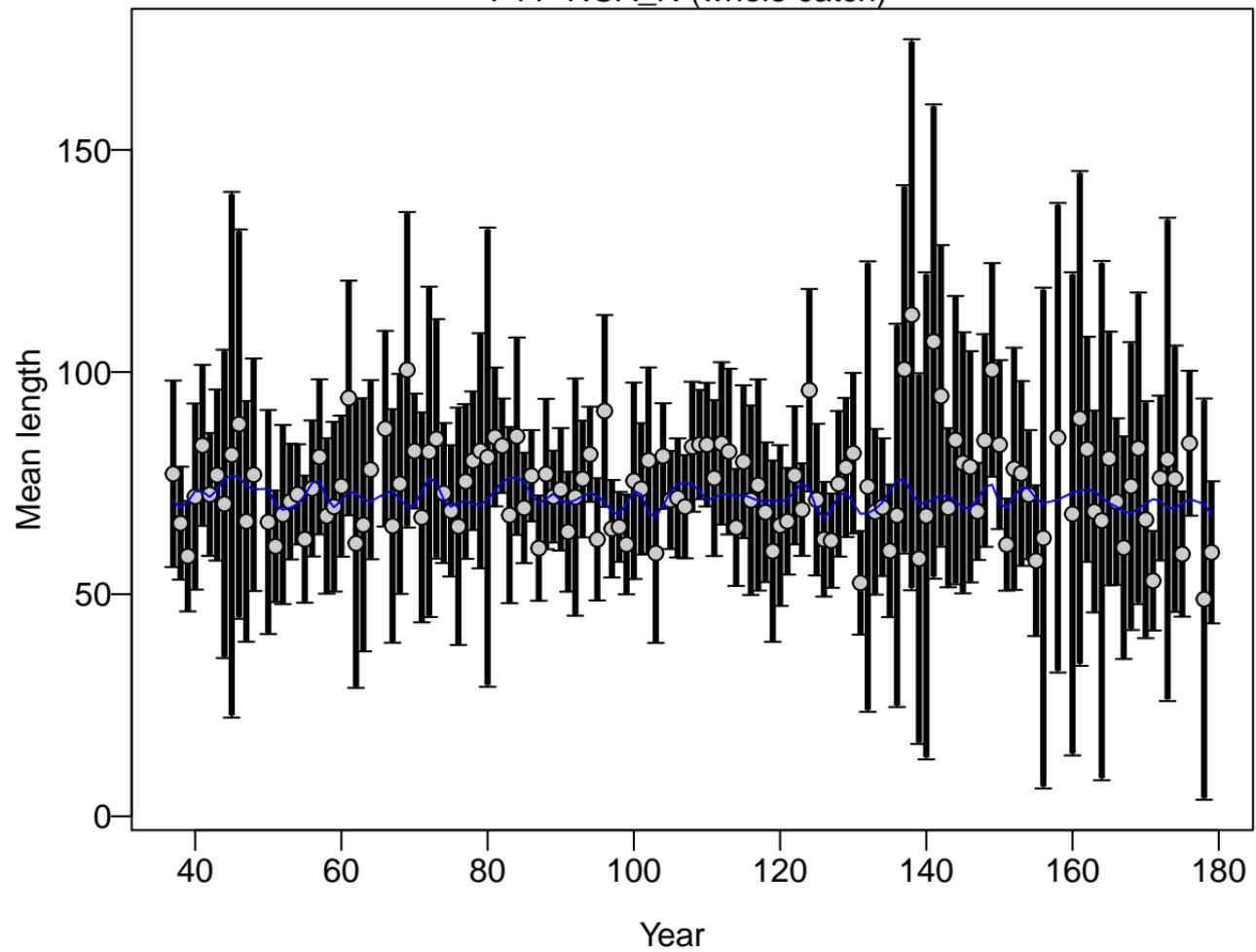
Proportion



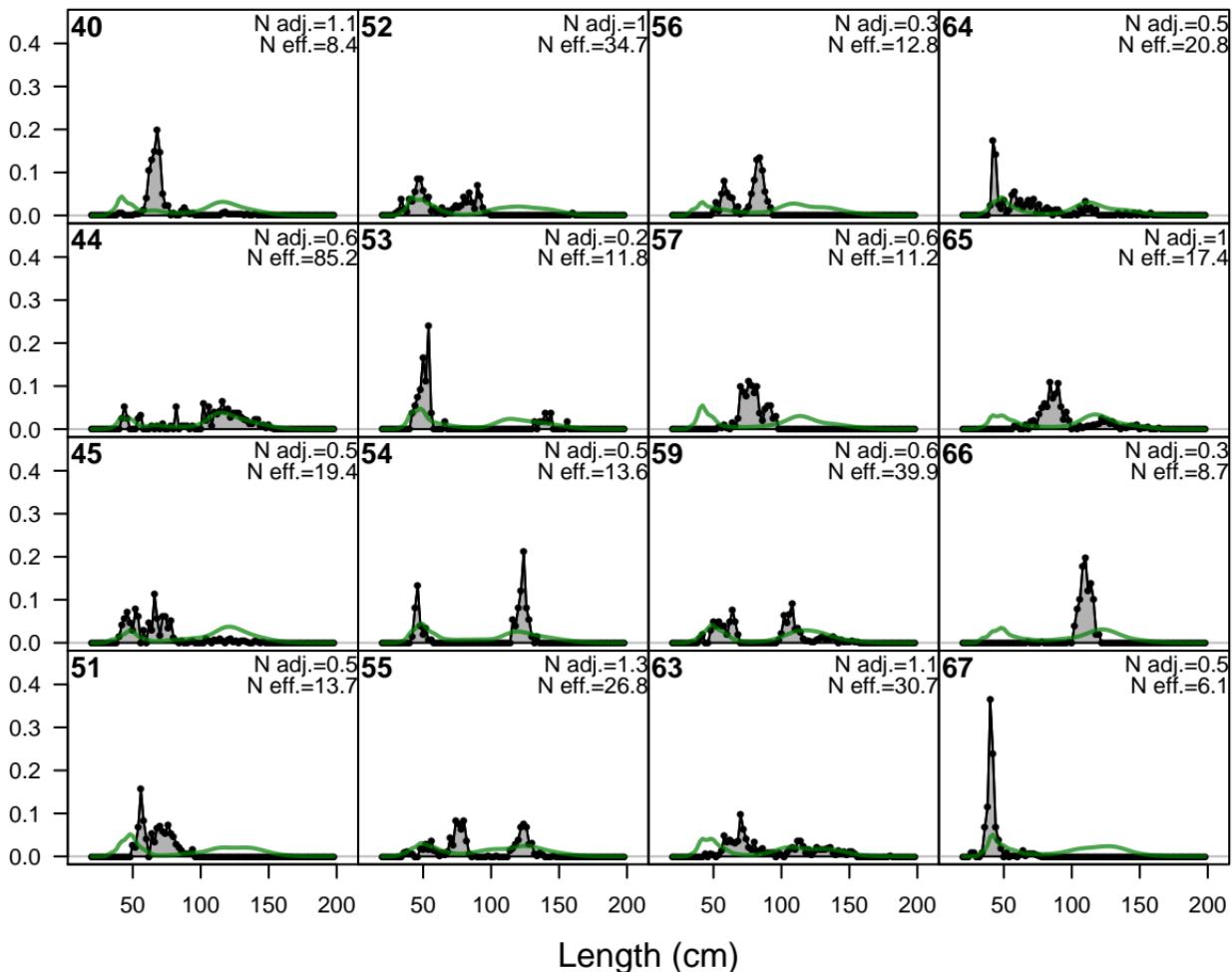




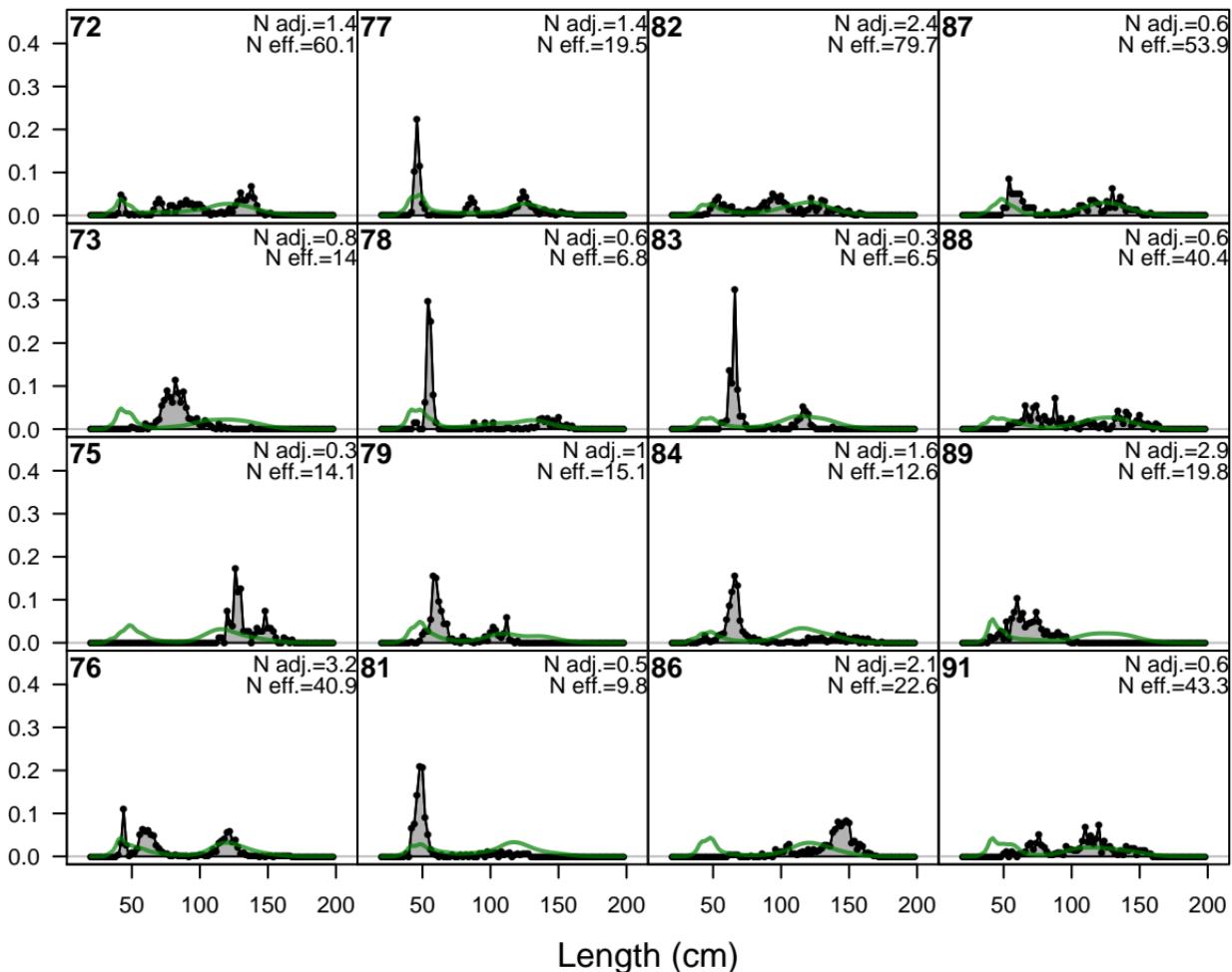
# F11-NOA\_N (whole catch)



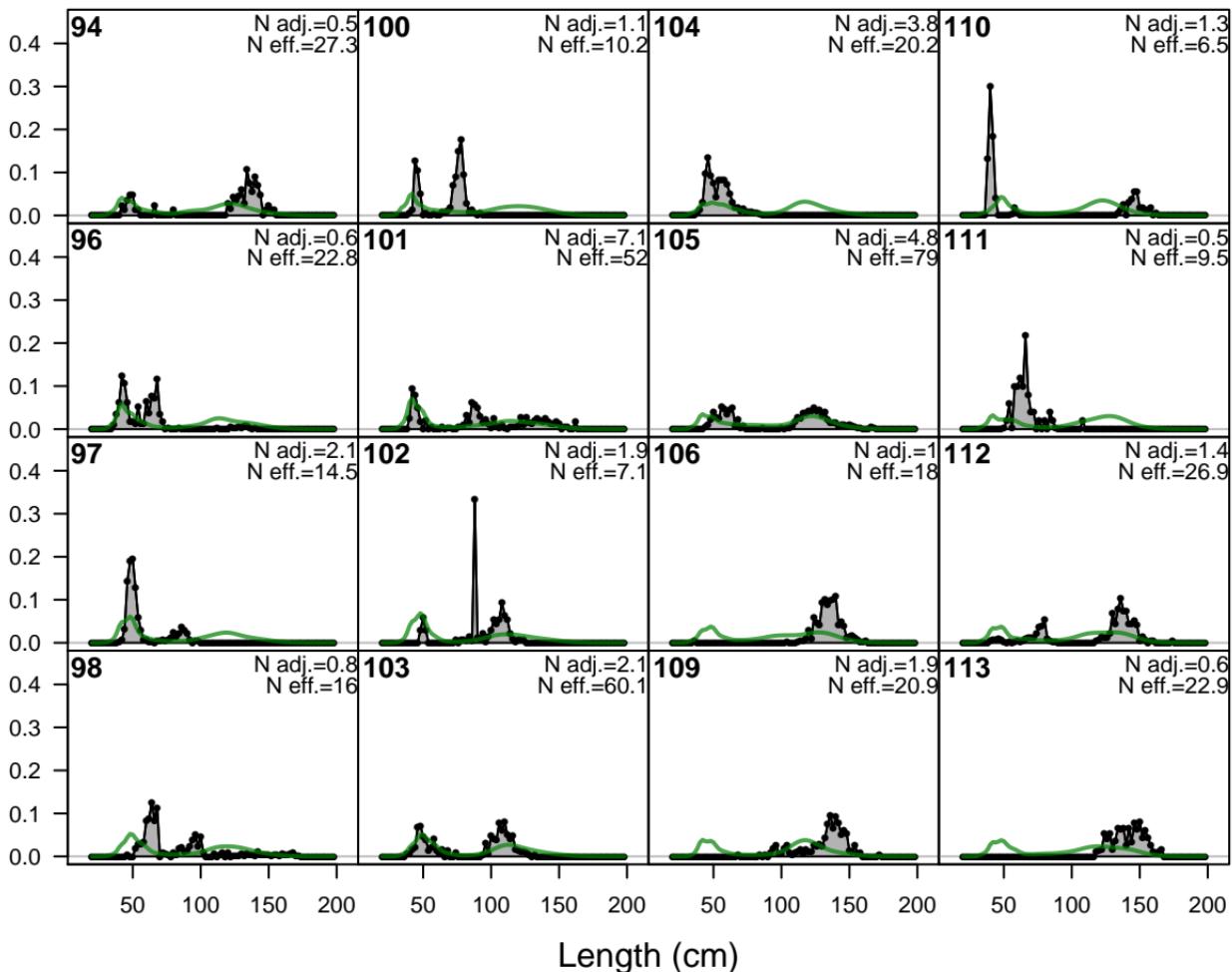
Proportion



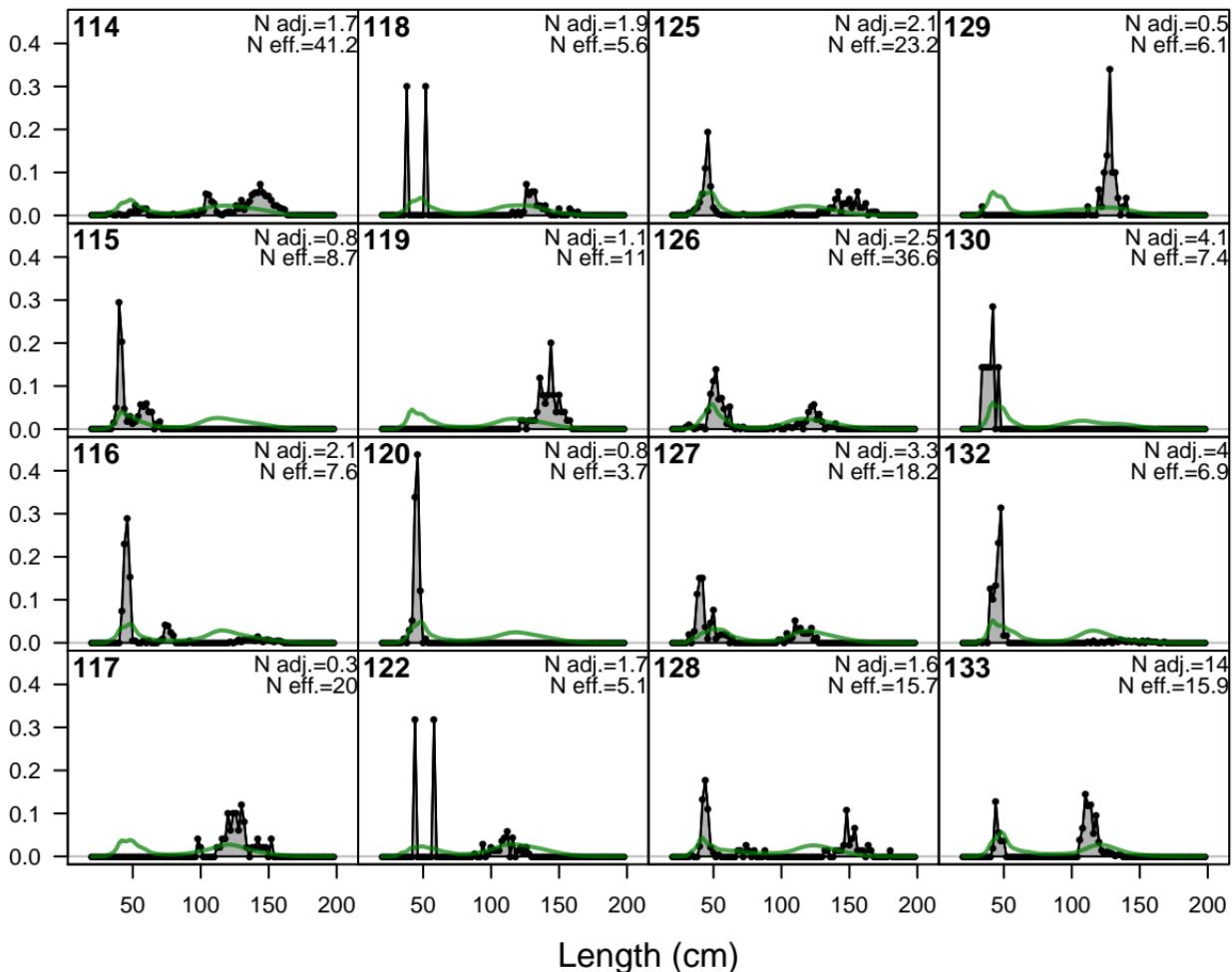
Proportion



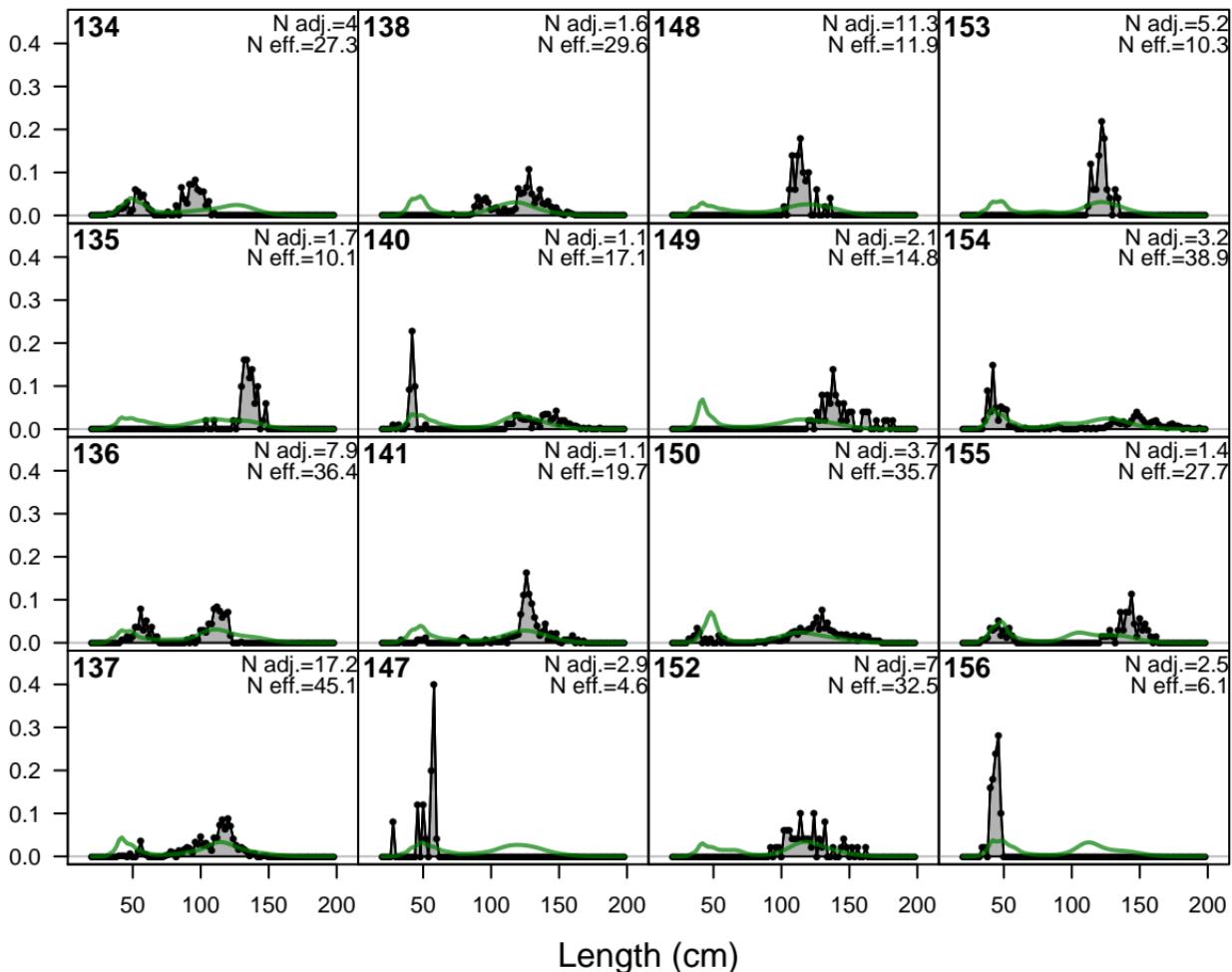
Proportion



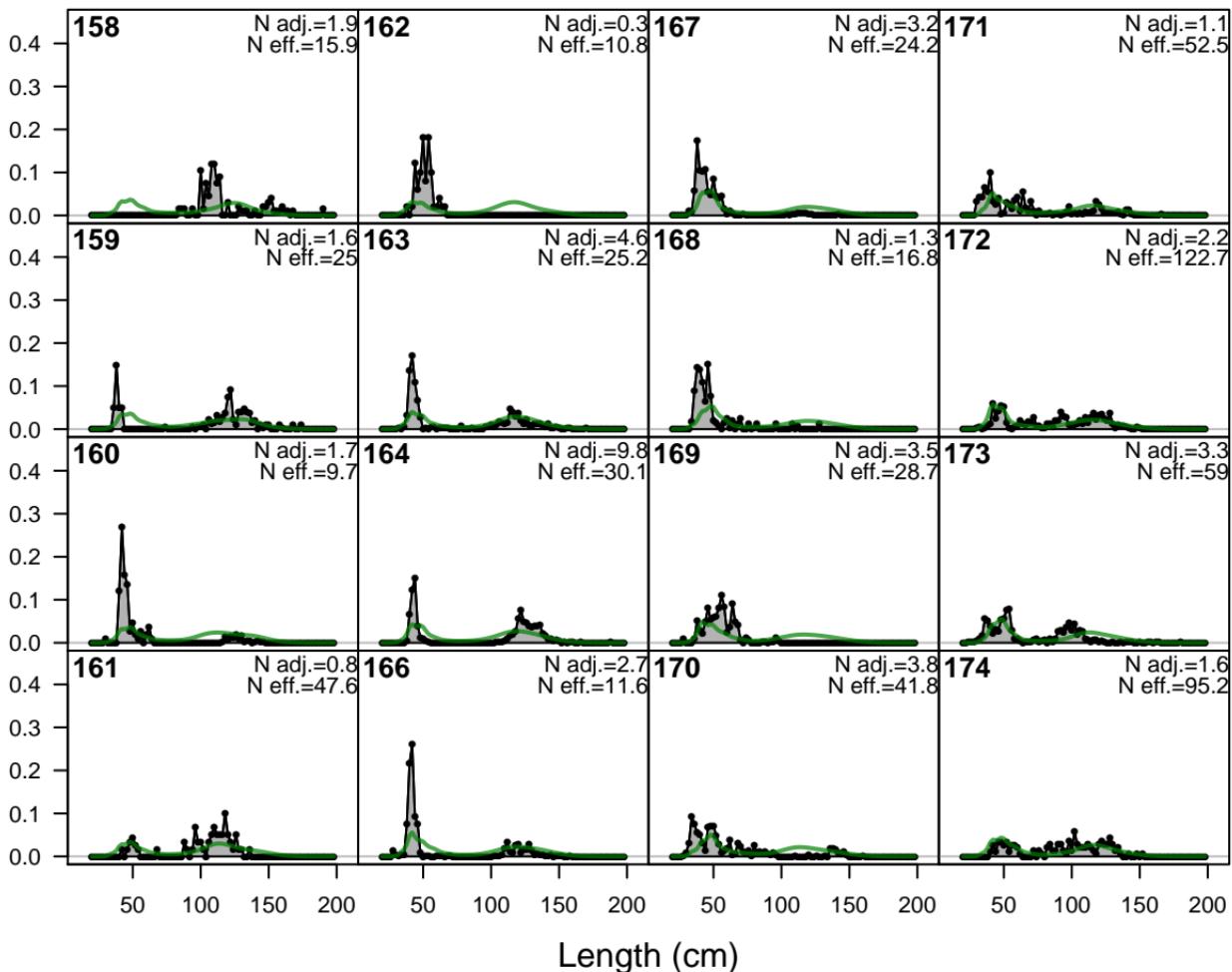
Proportion



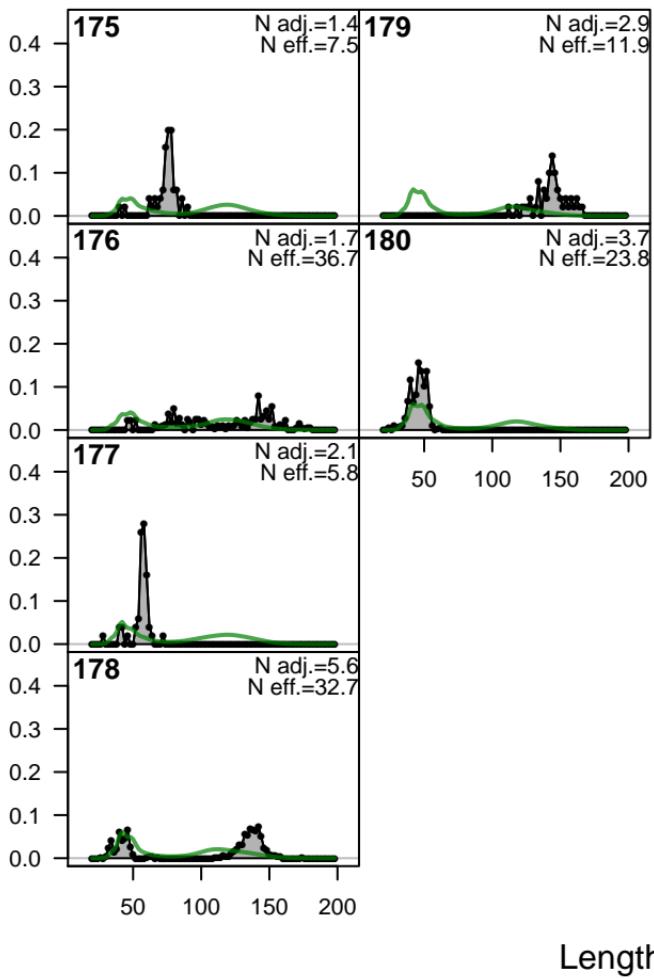
Proportion

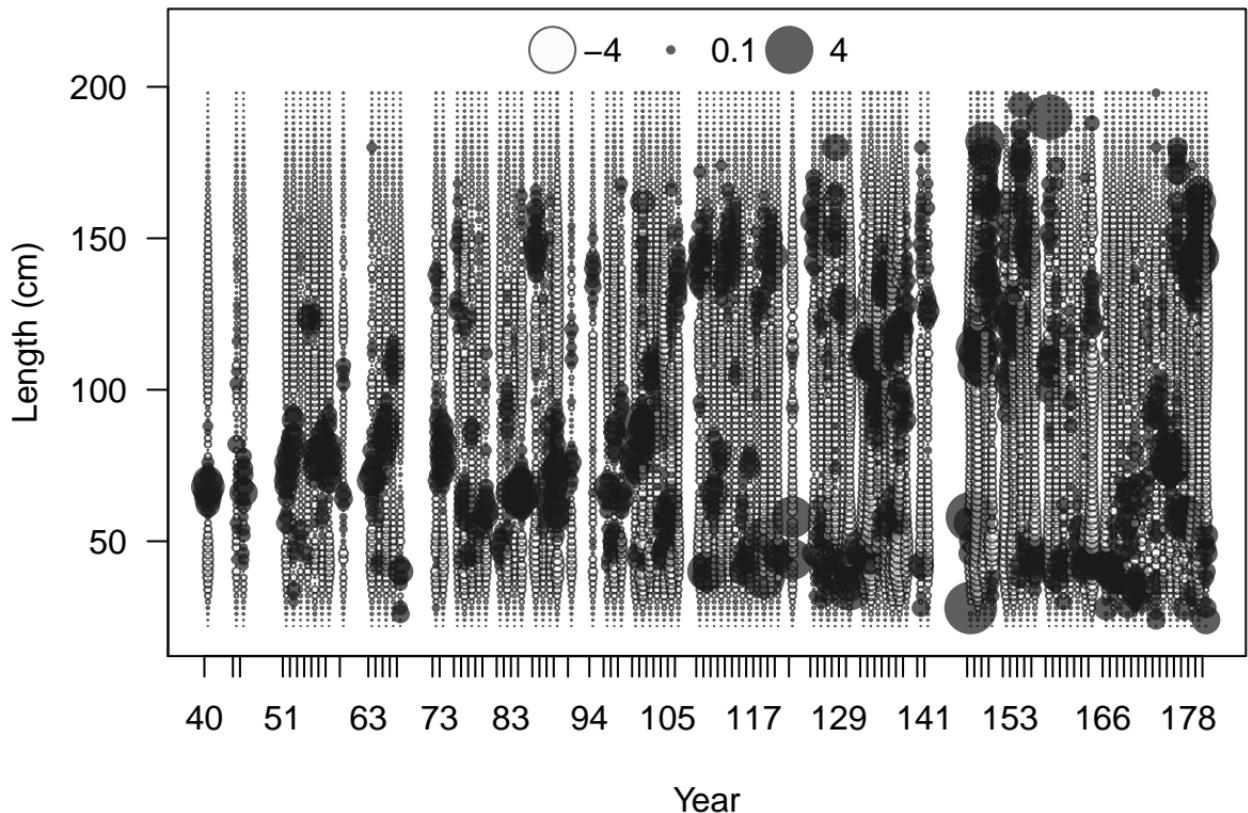


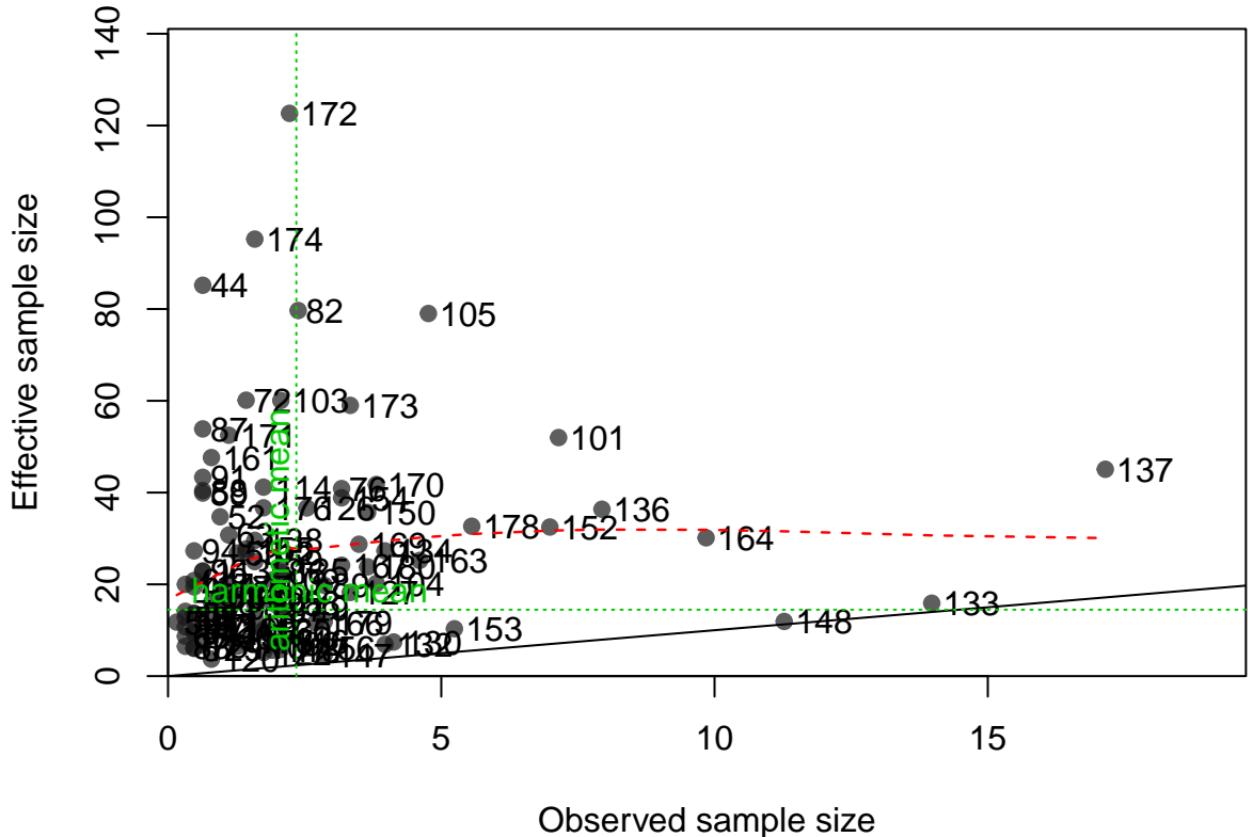
Proportion



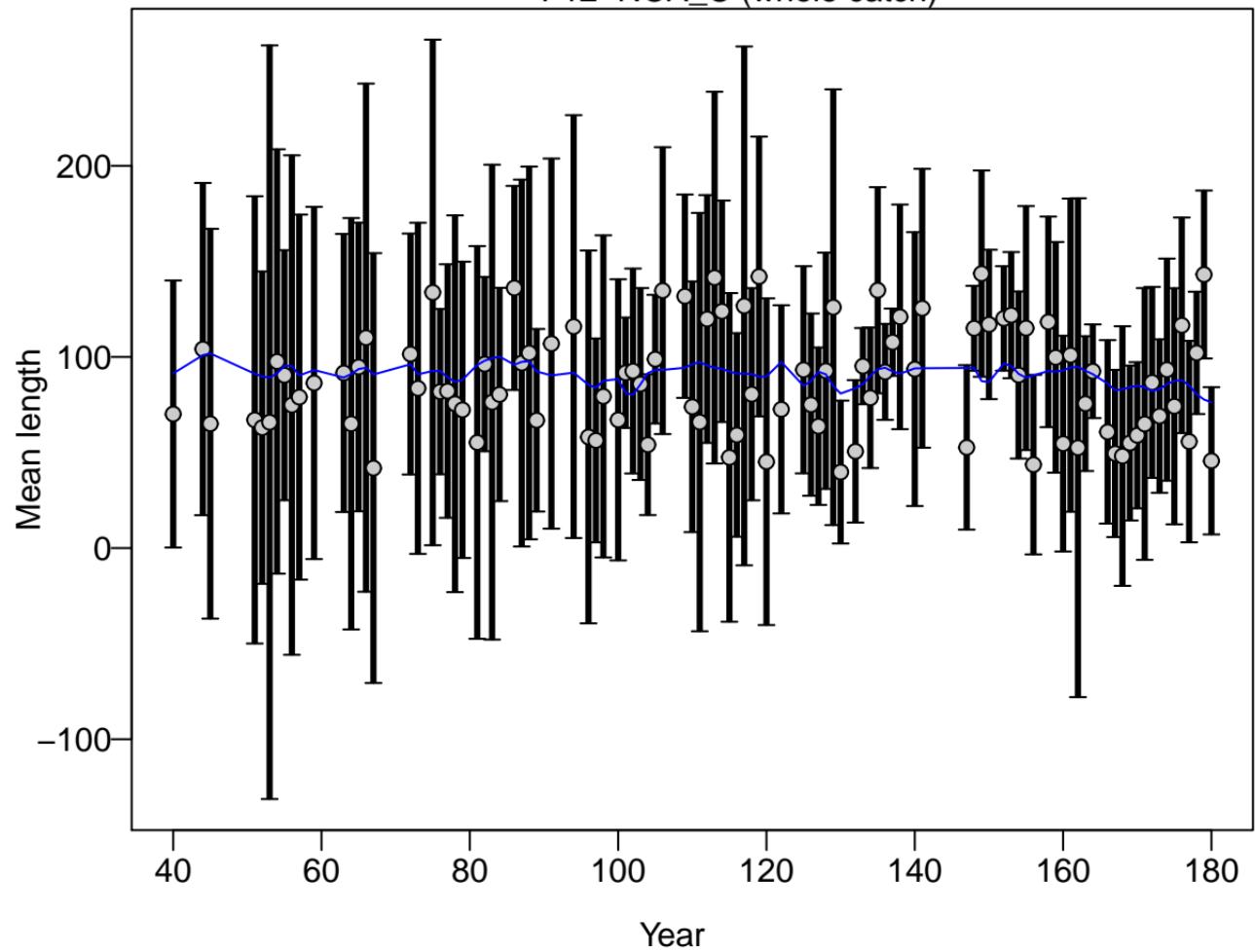
Proportion



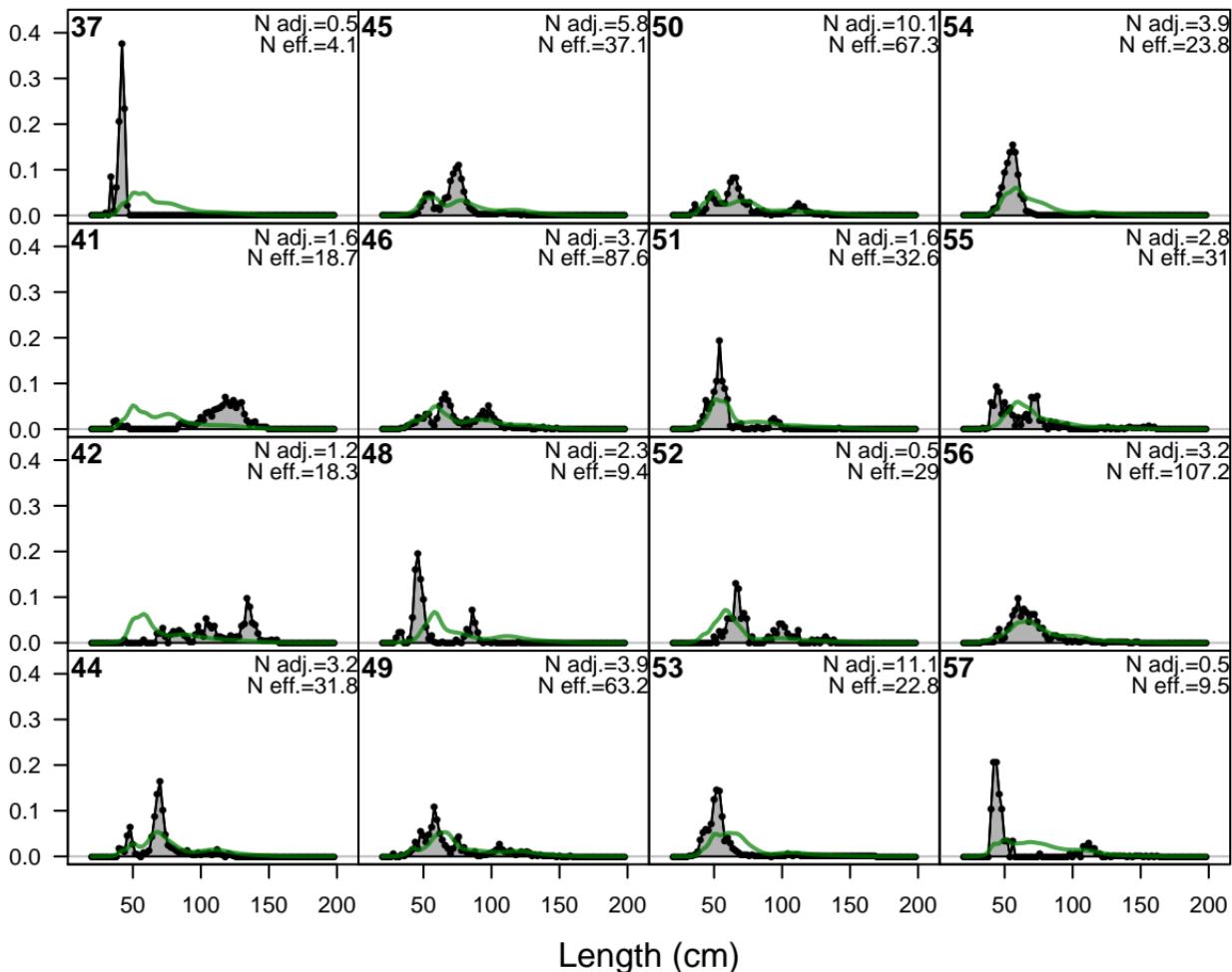




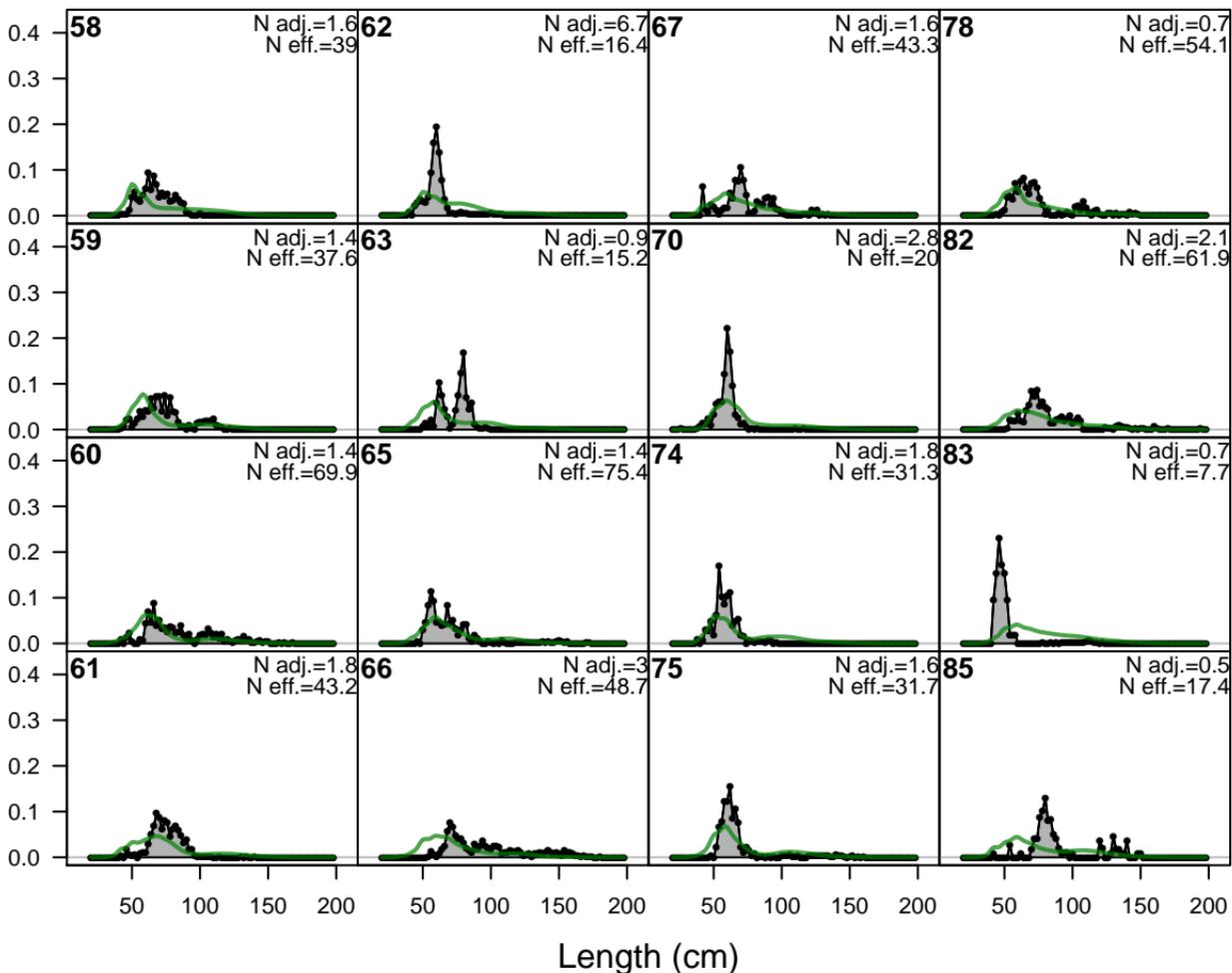
# F12-NOA\_C (whole catch)



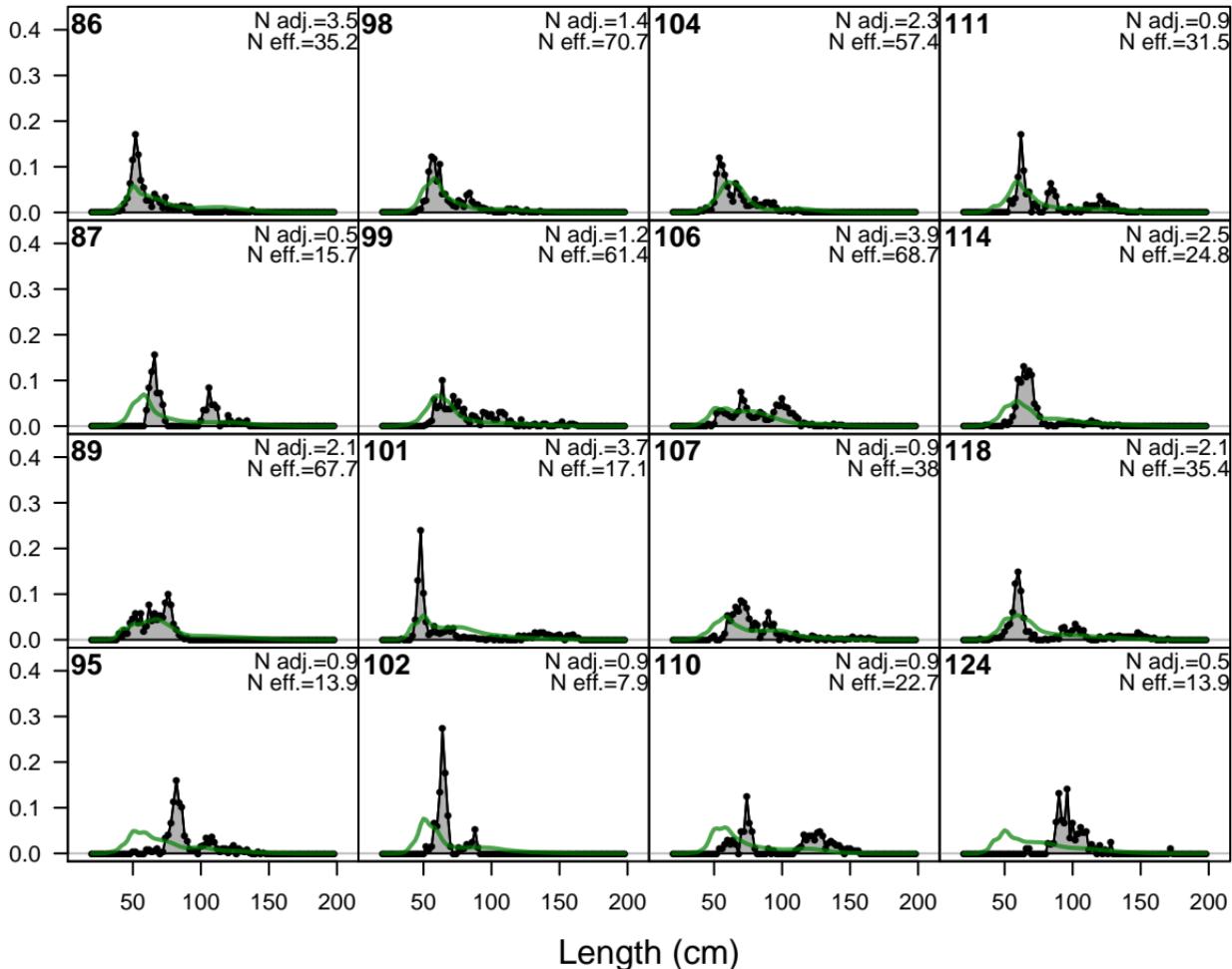
Proportion



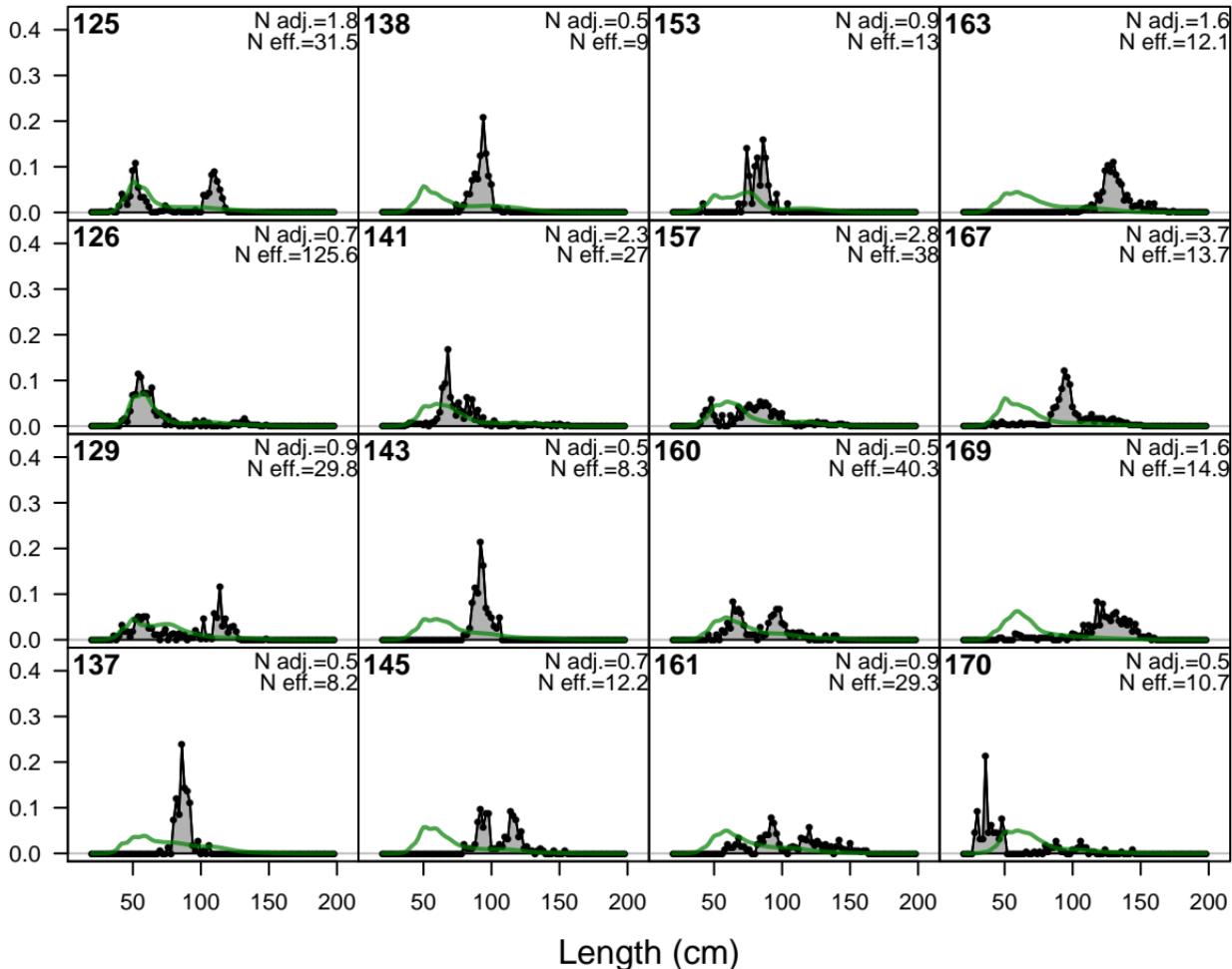
Proportion

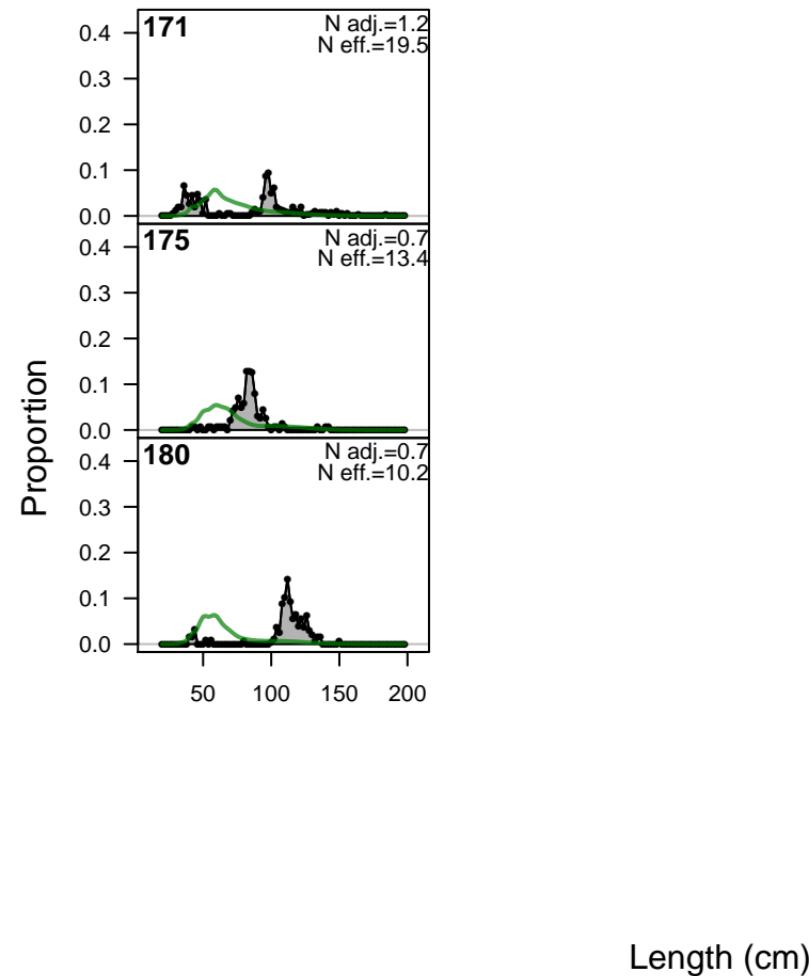


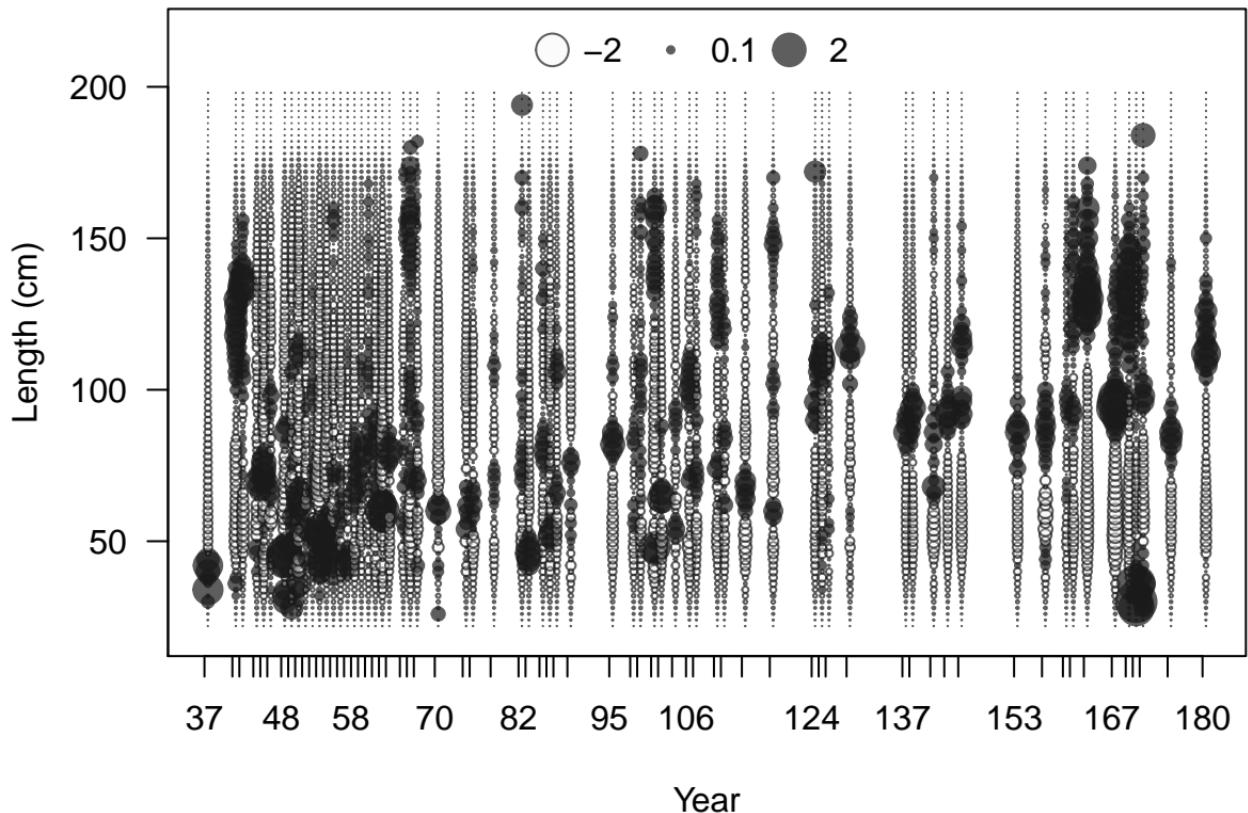
Proportion

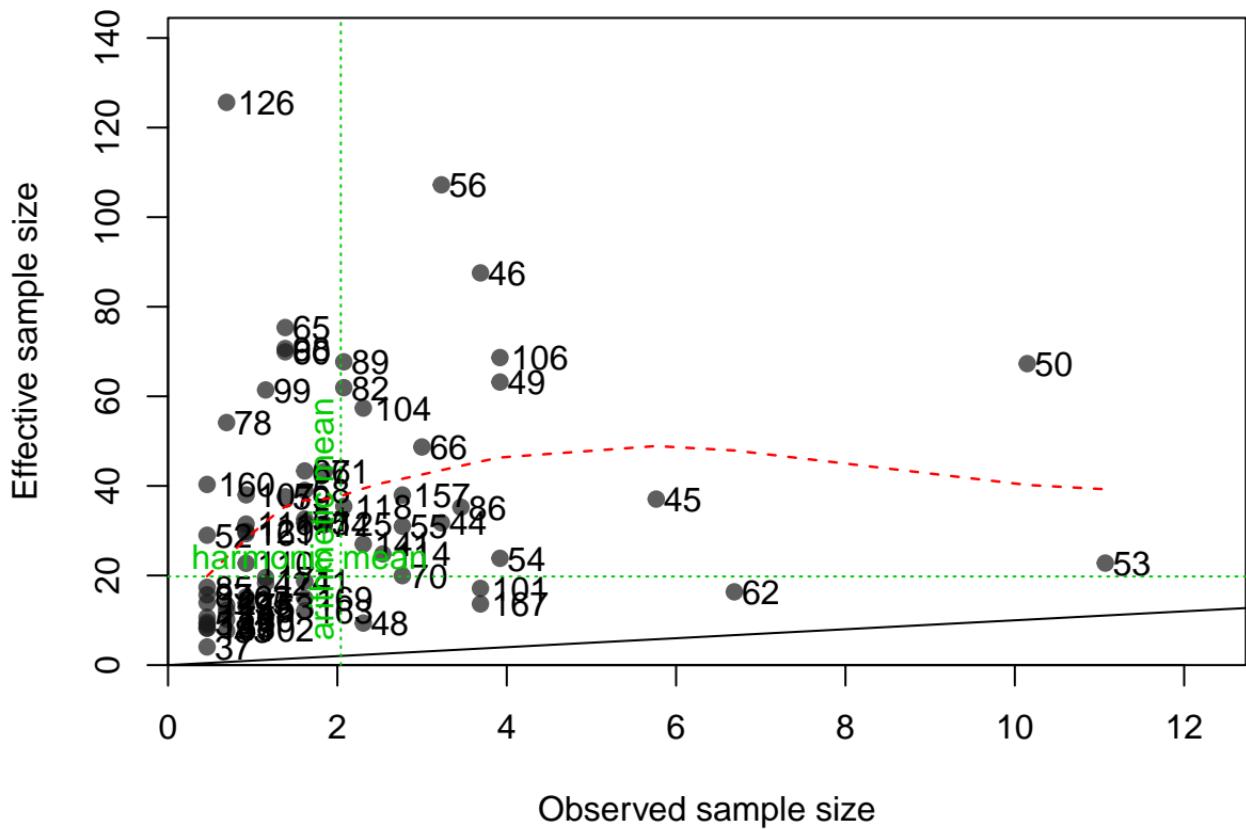


Proportion

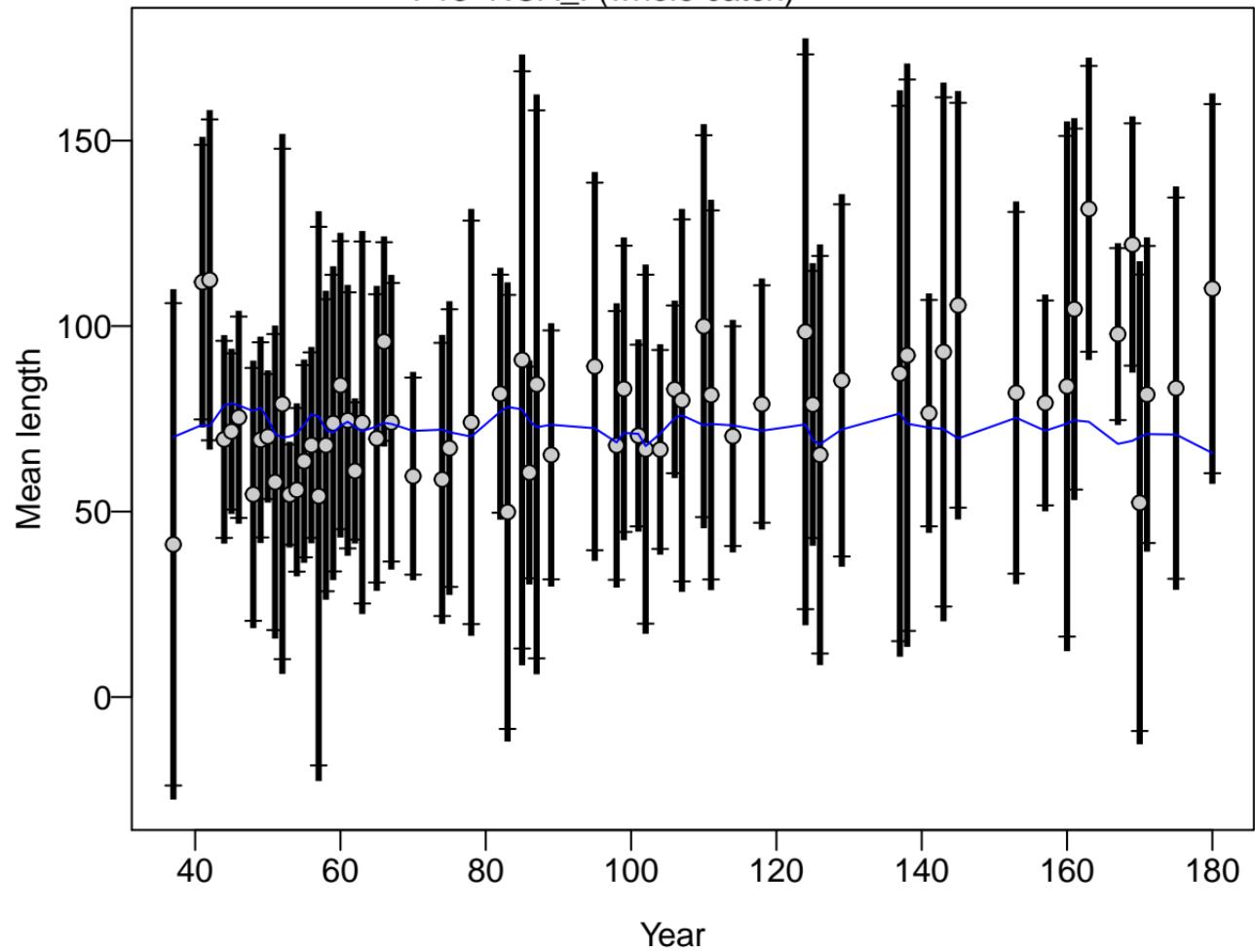




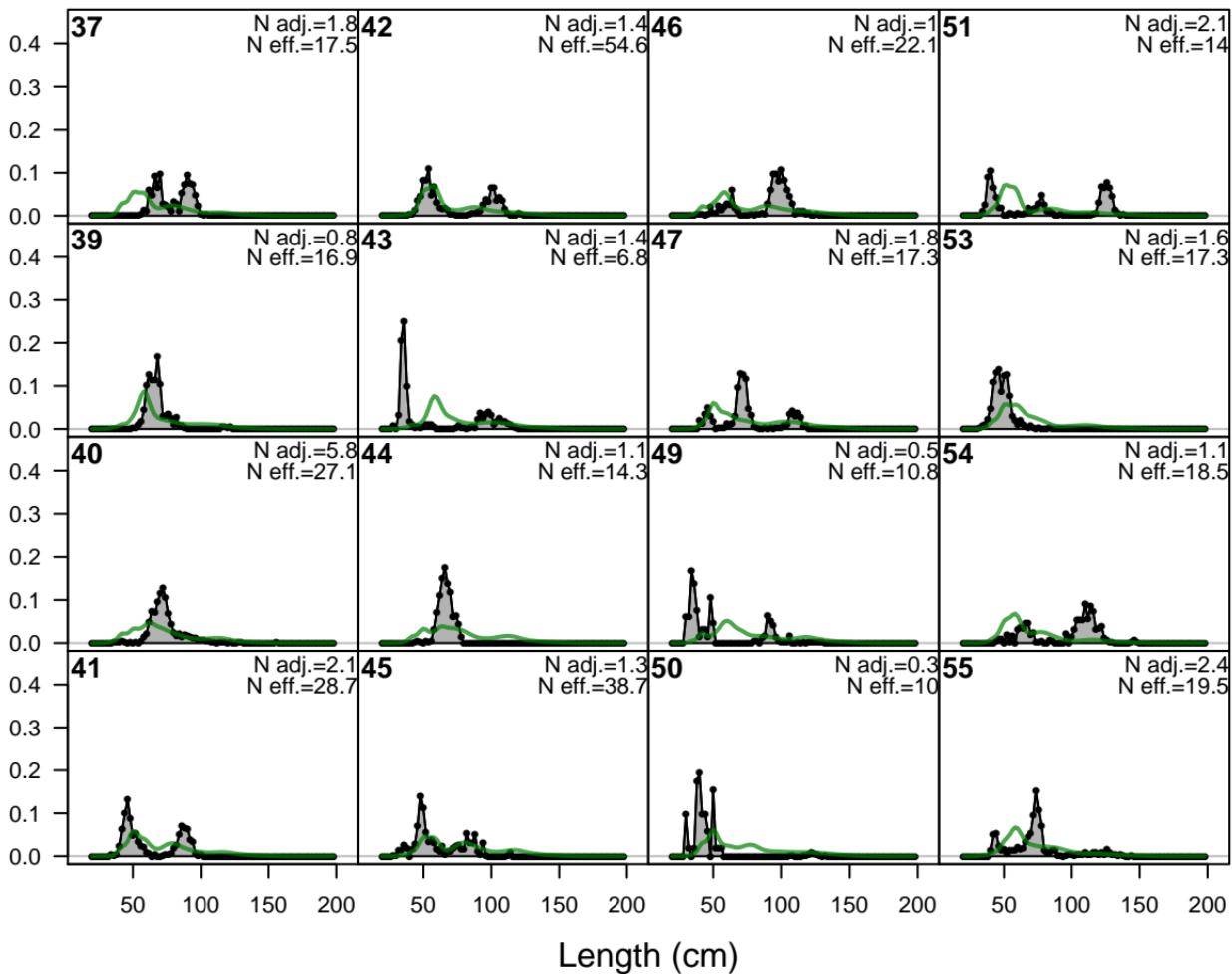




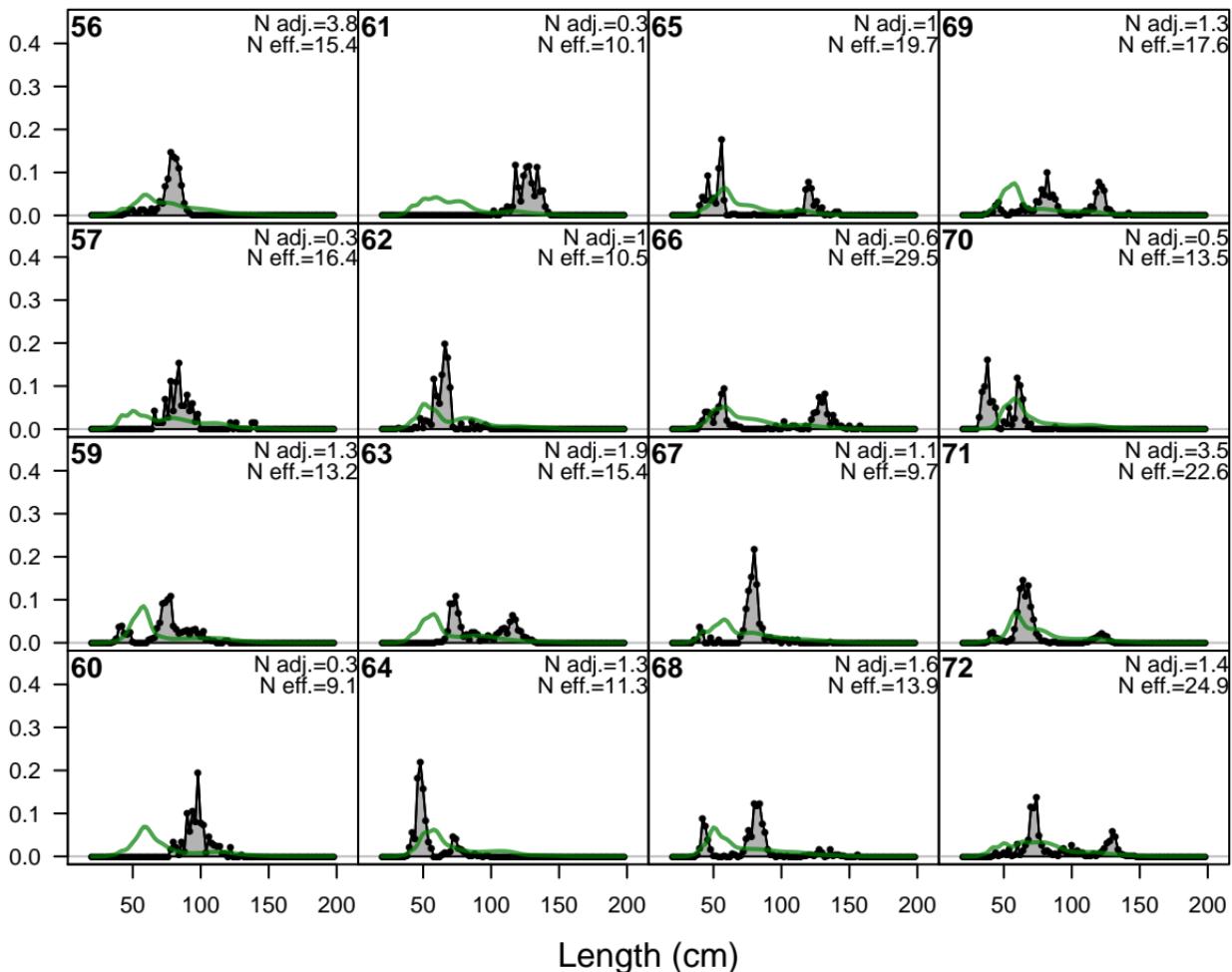
# F13–NOA\_I (whole catch)



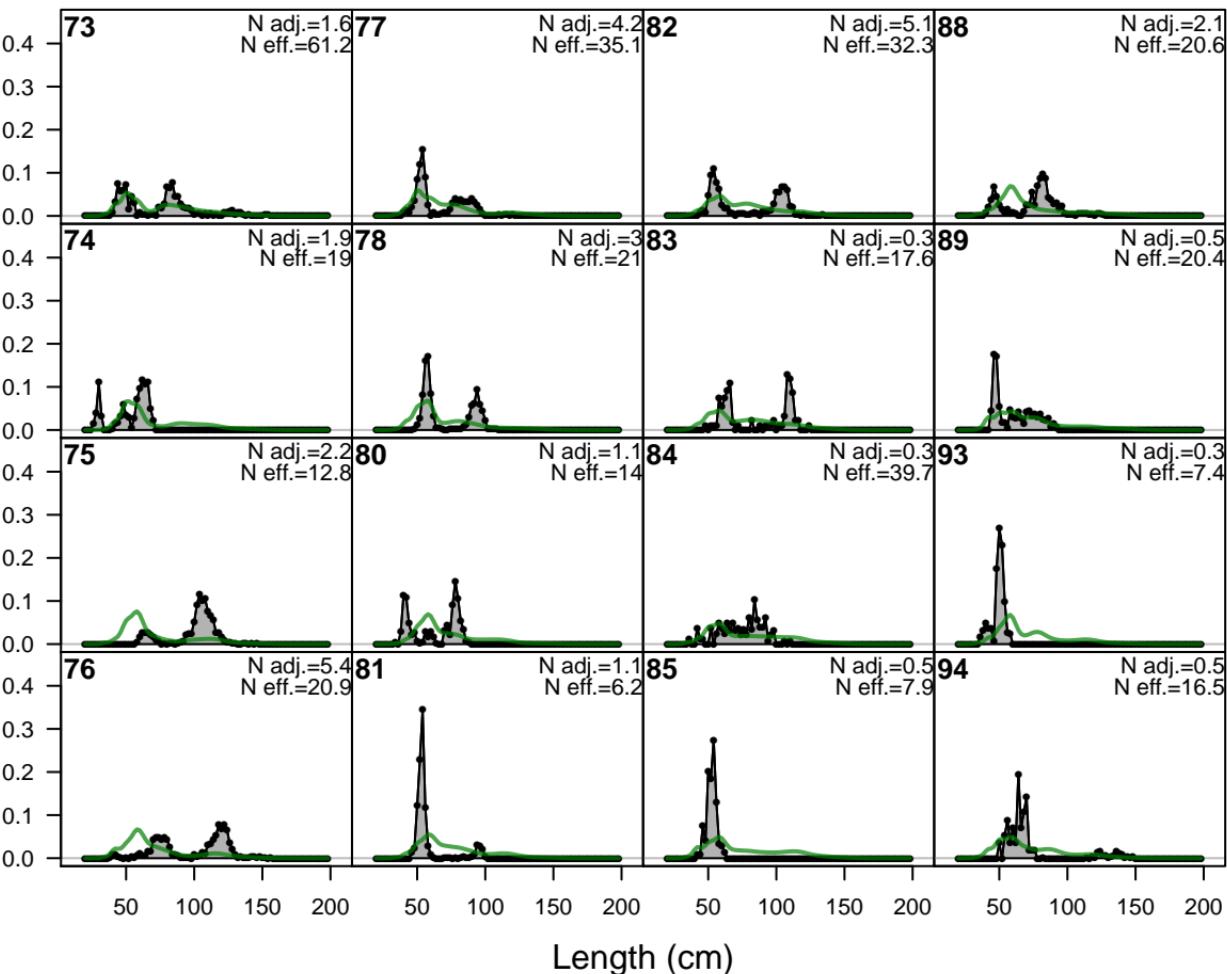
Proportion



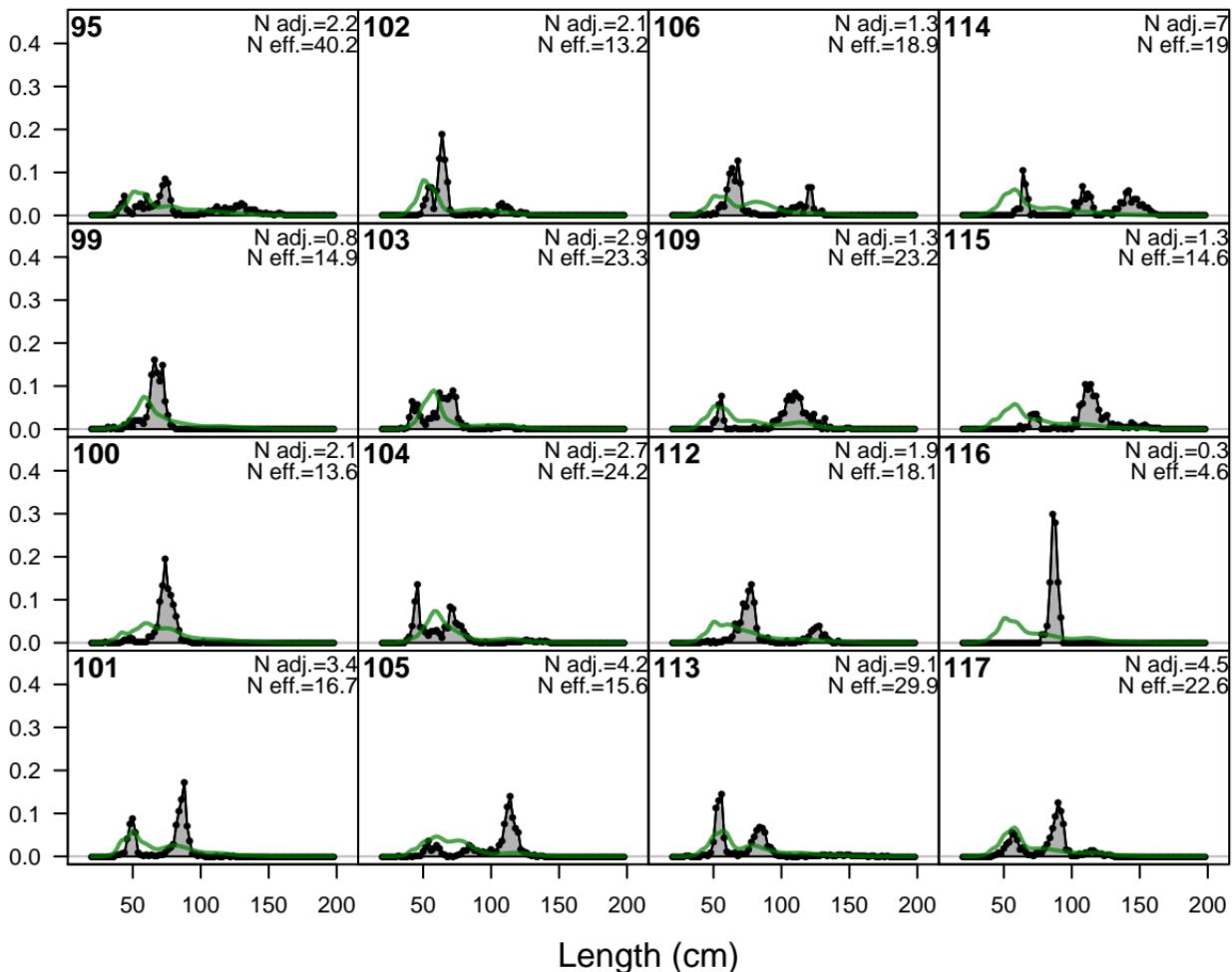
Proportion



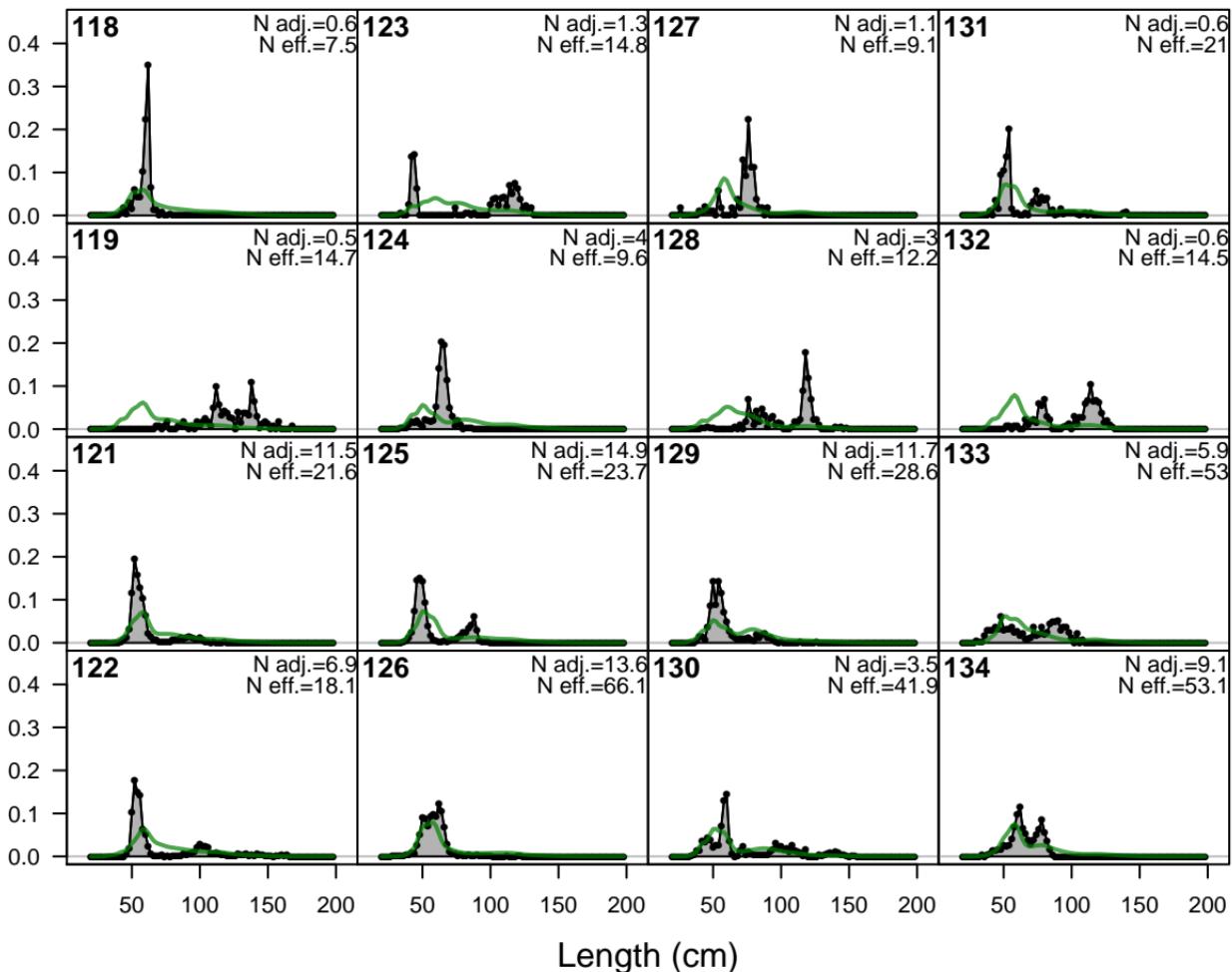
Proportion



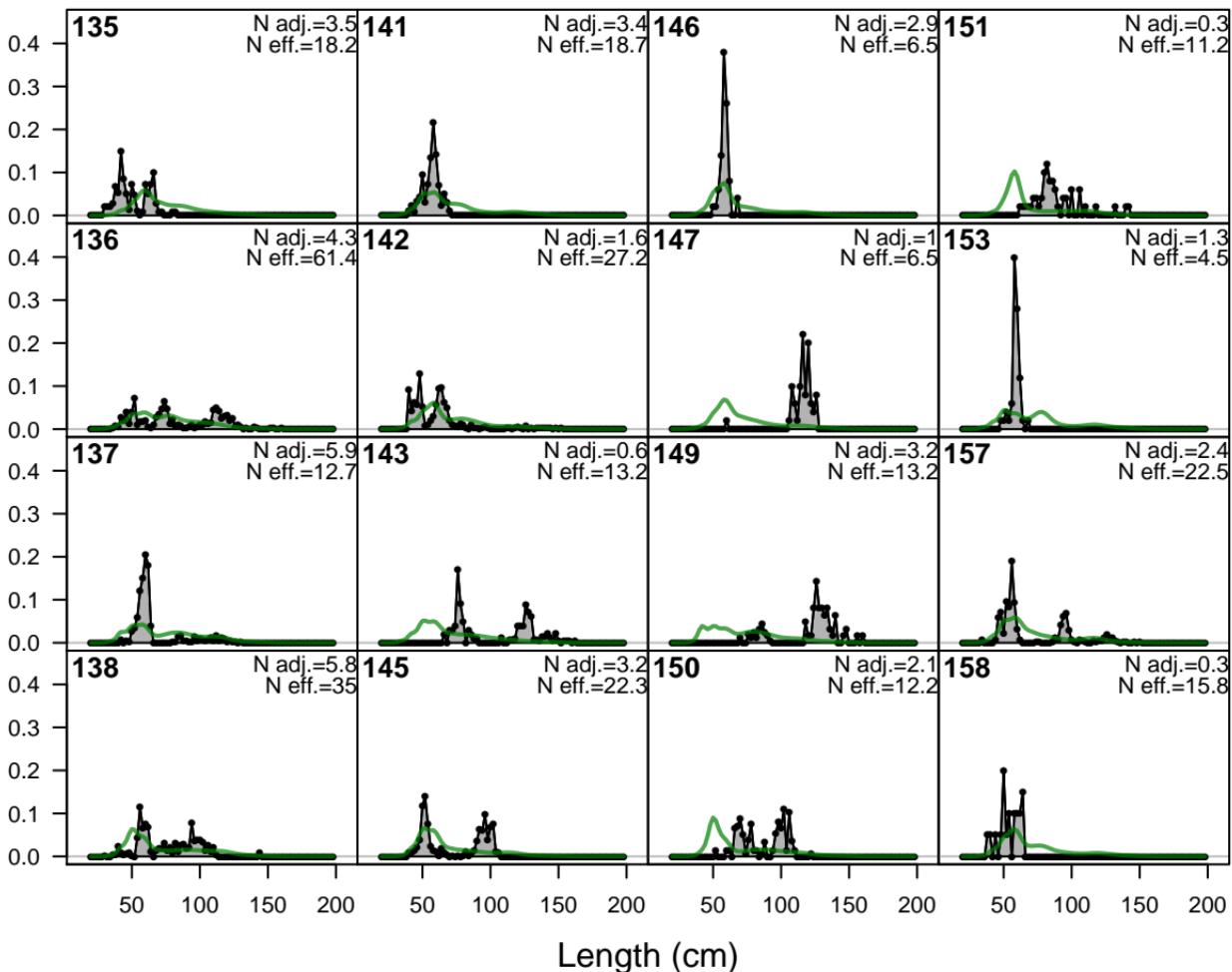
Proportion



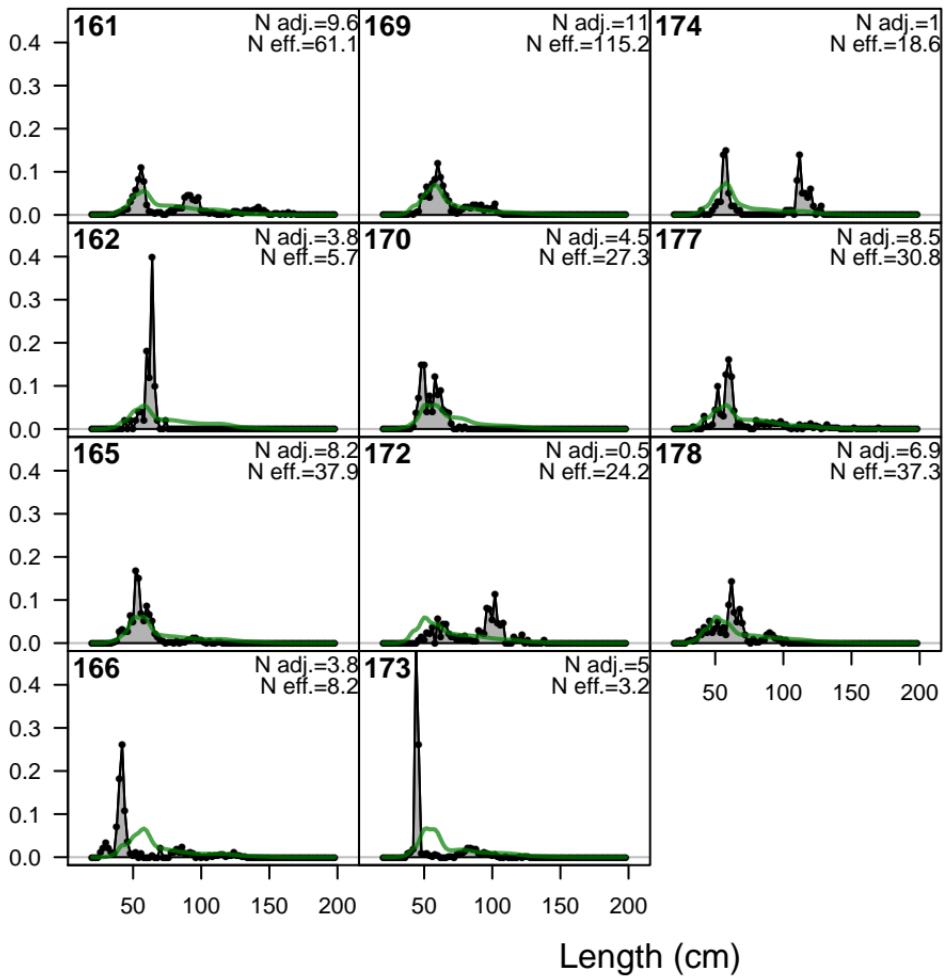
Proportion

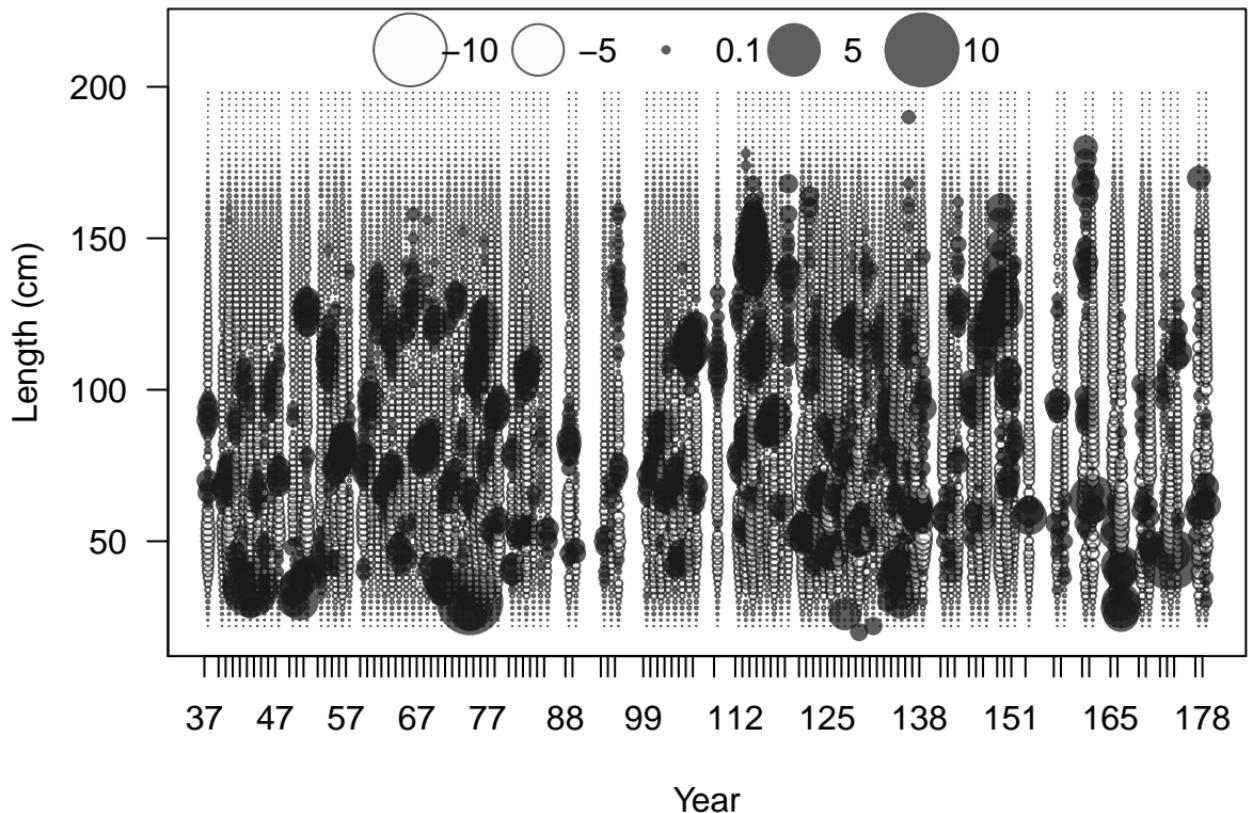


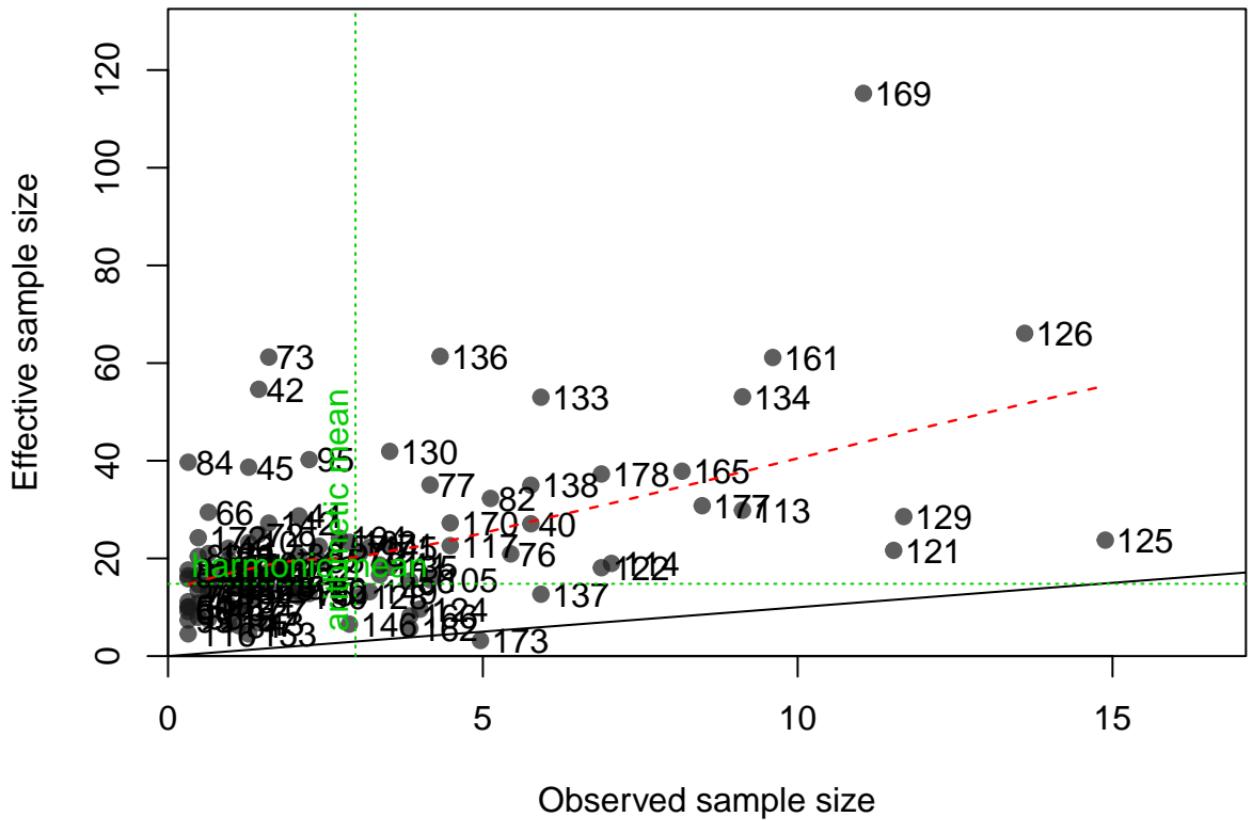
Proportion



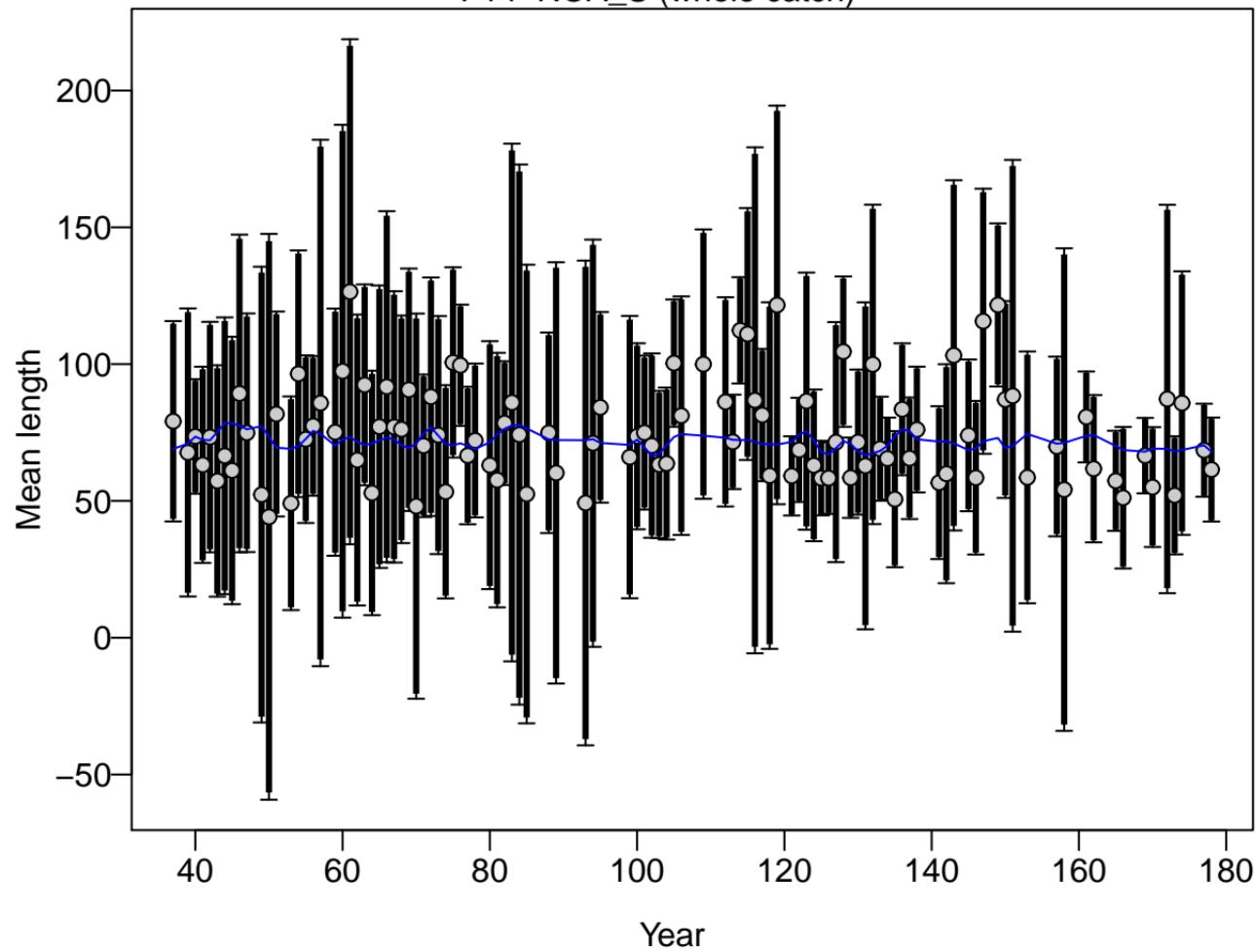
Proportion



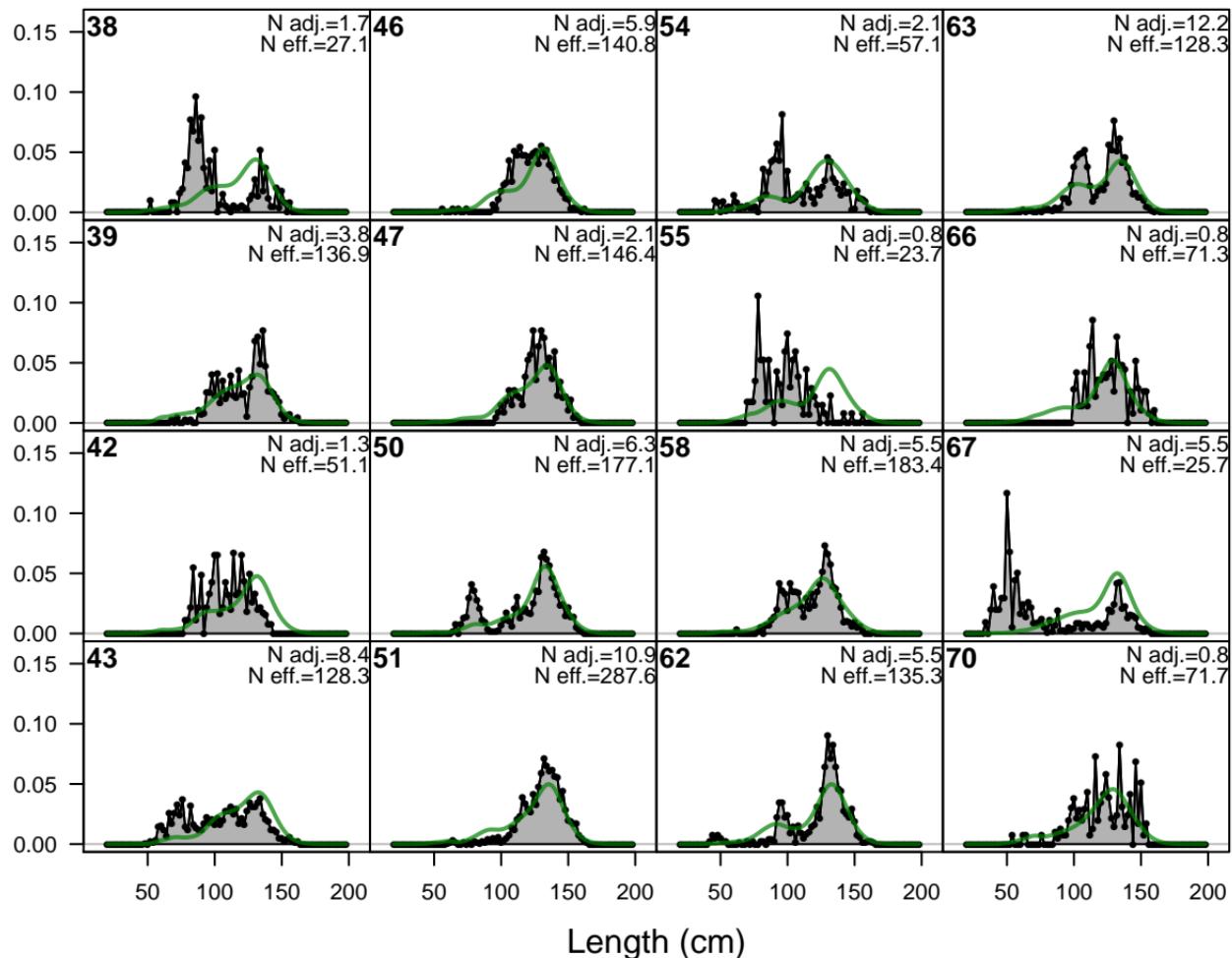




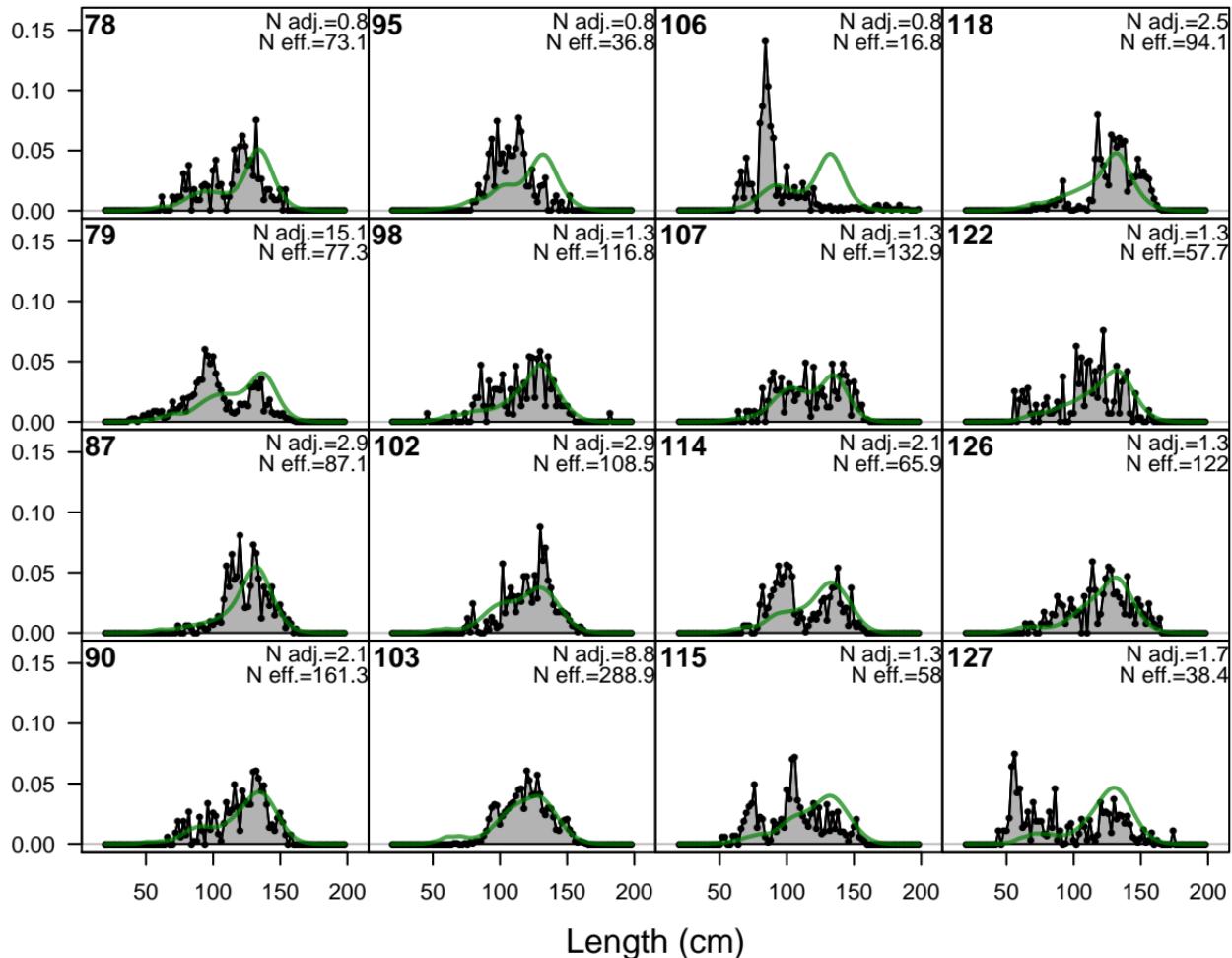
# F14-NOA\_S (whole catch)



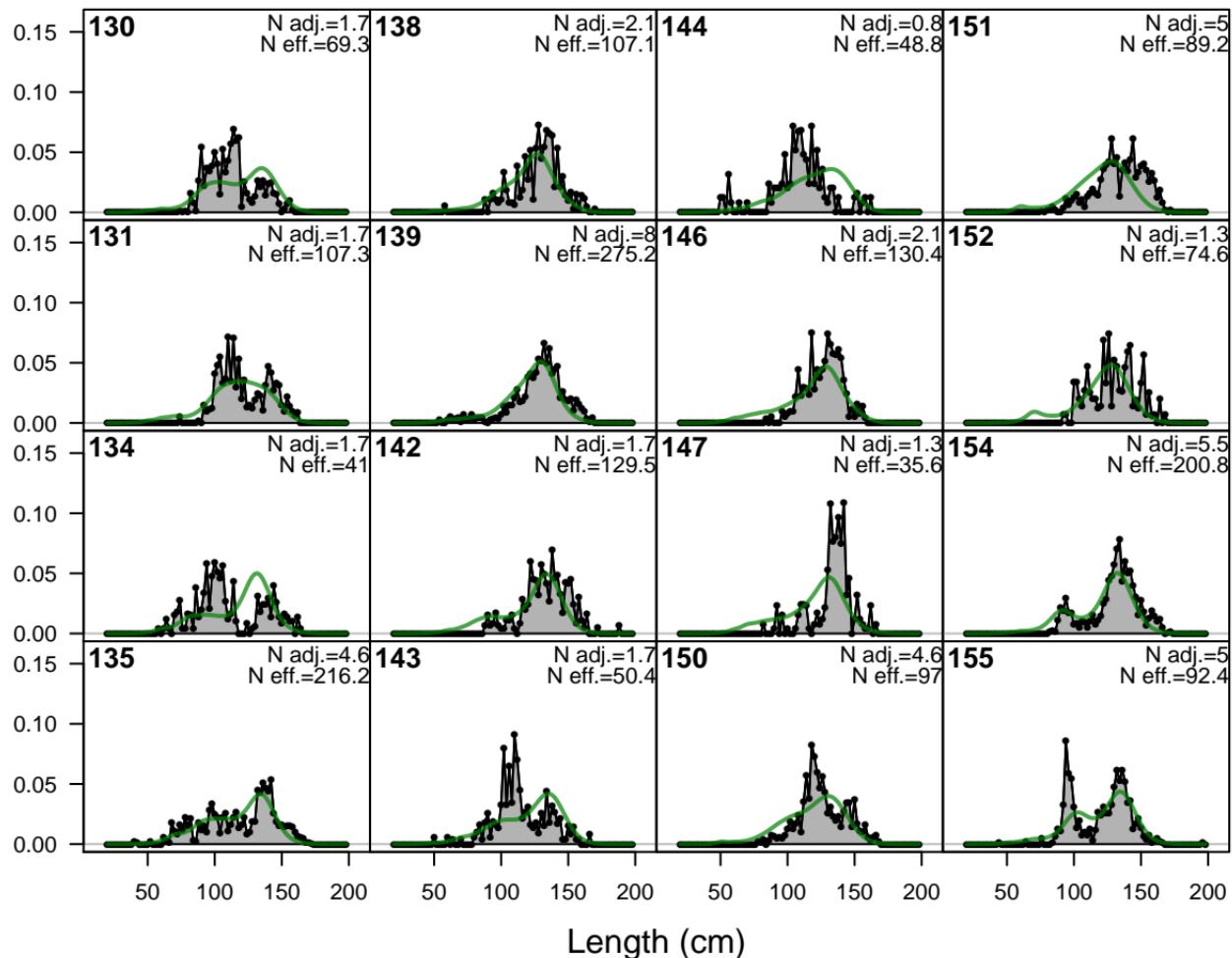
Proportion



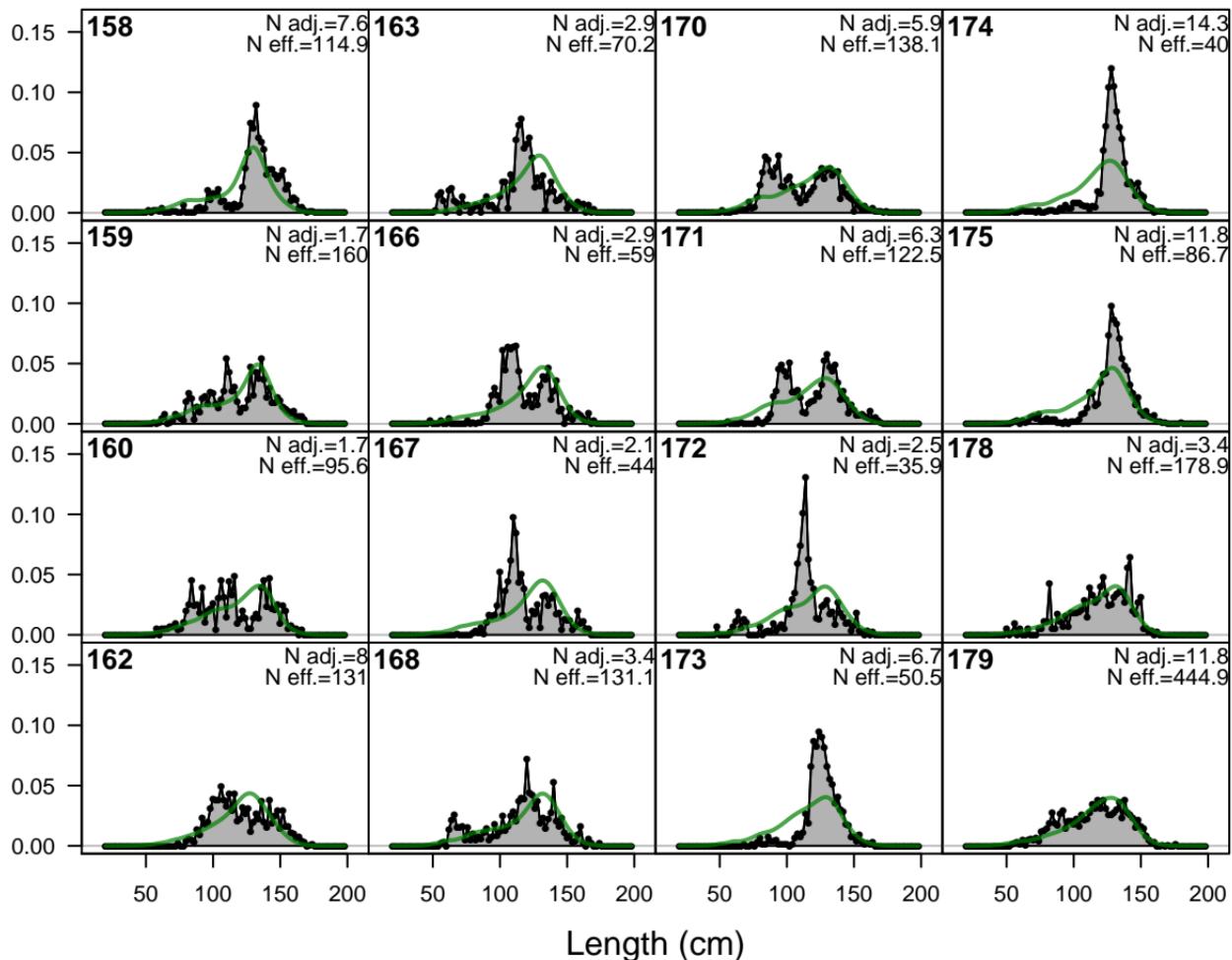
Proportion



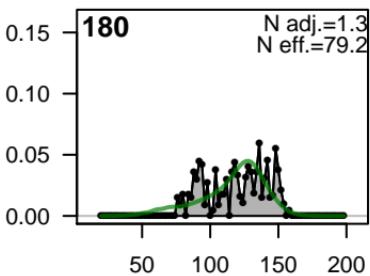
Proportion



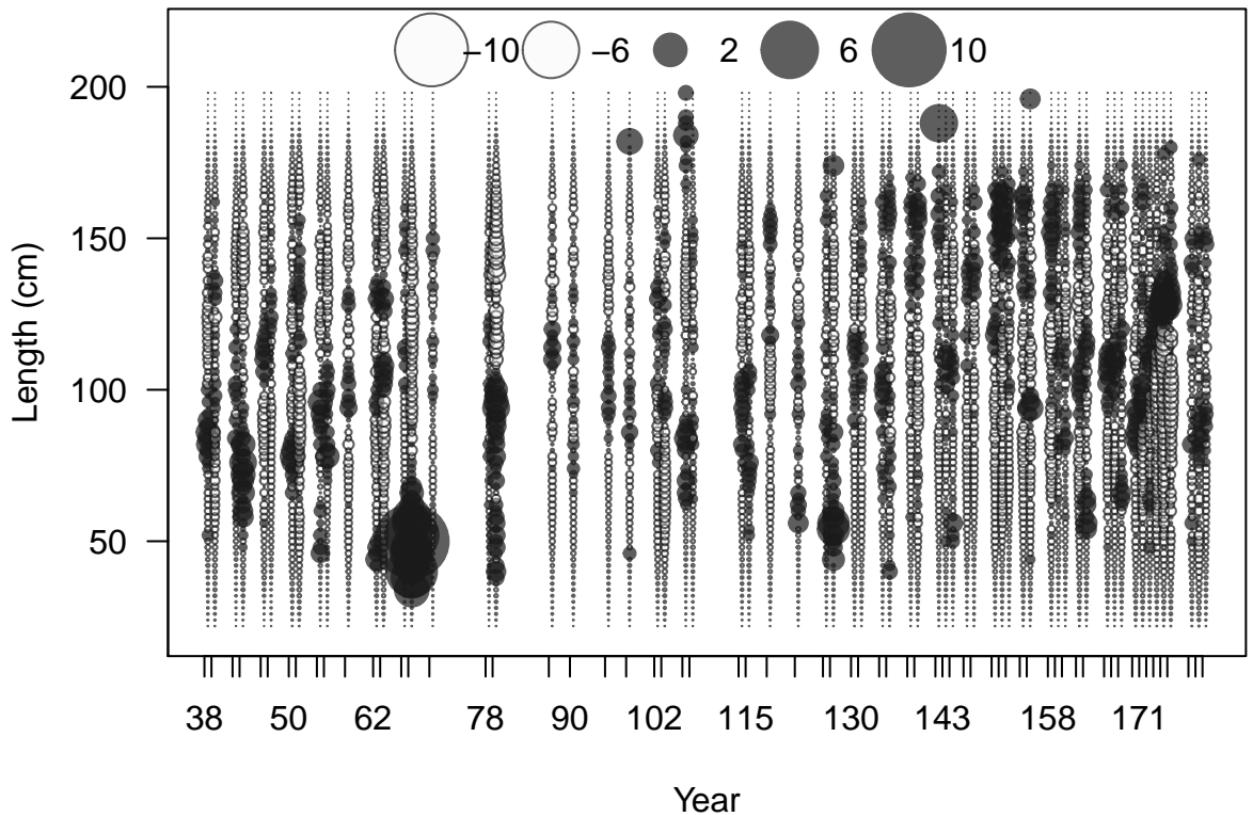
Proportion

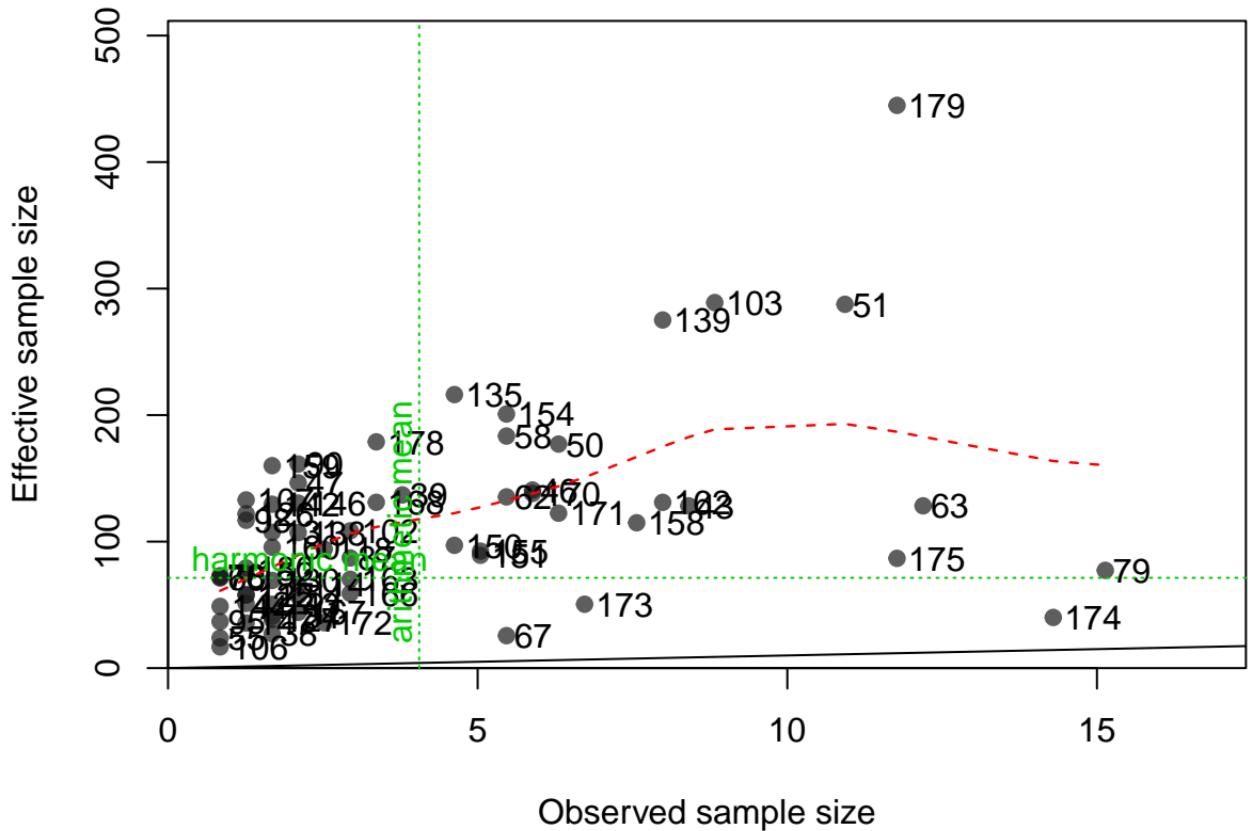


Proportion

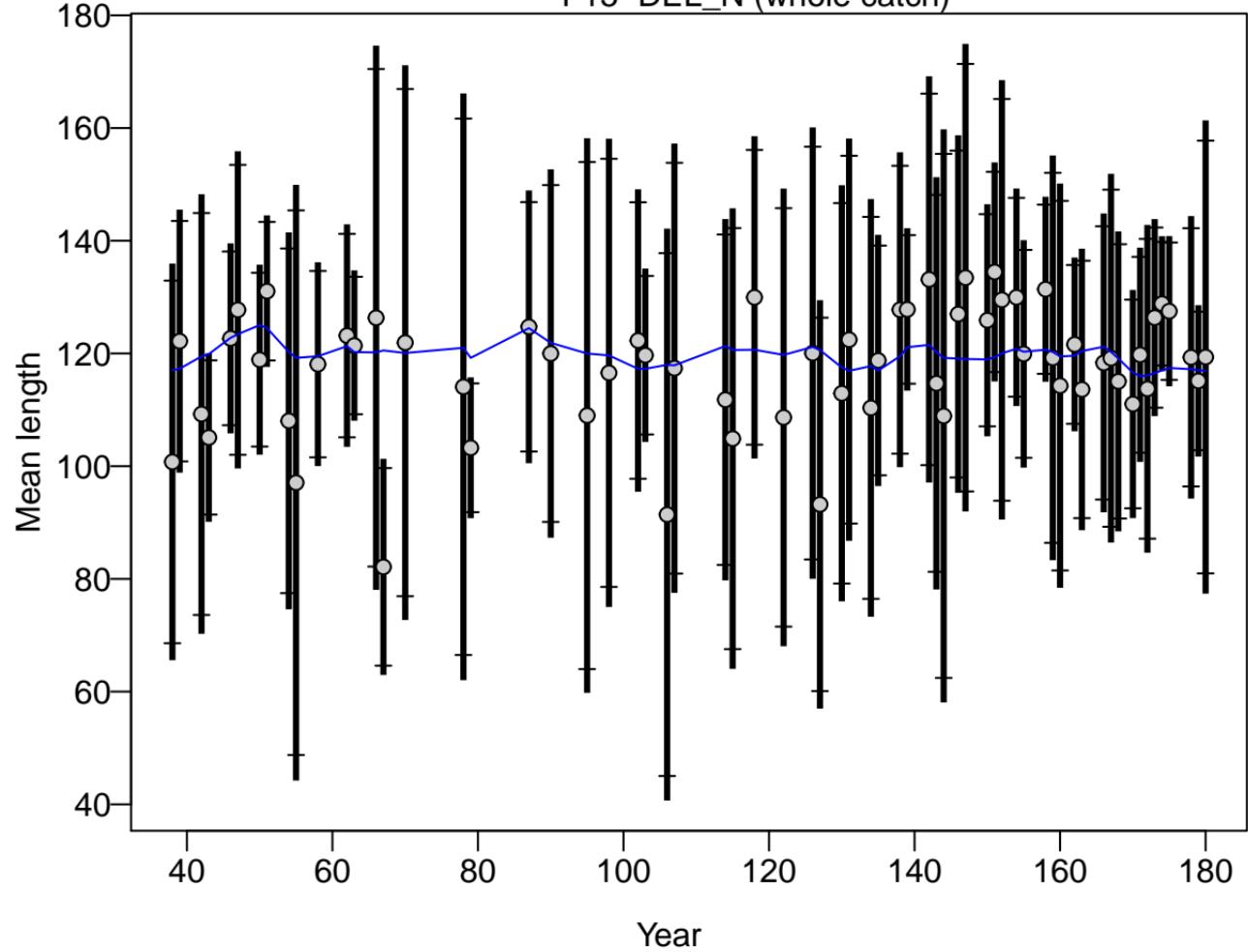


Length (cm)

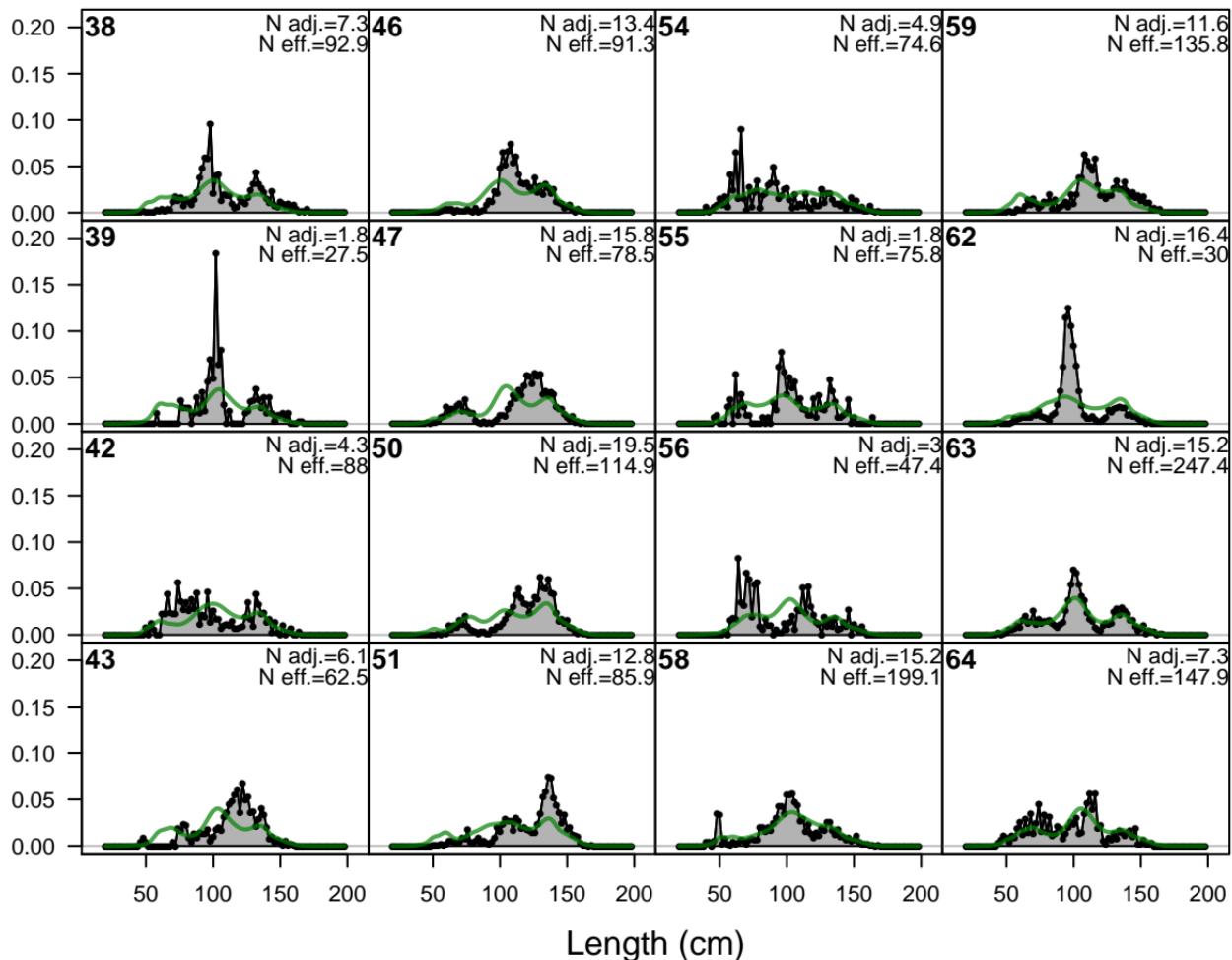




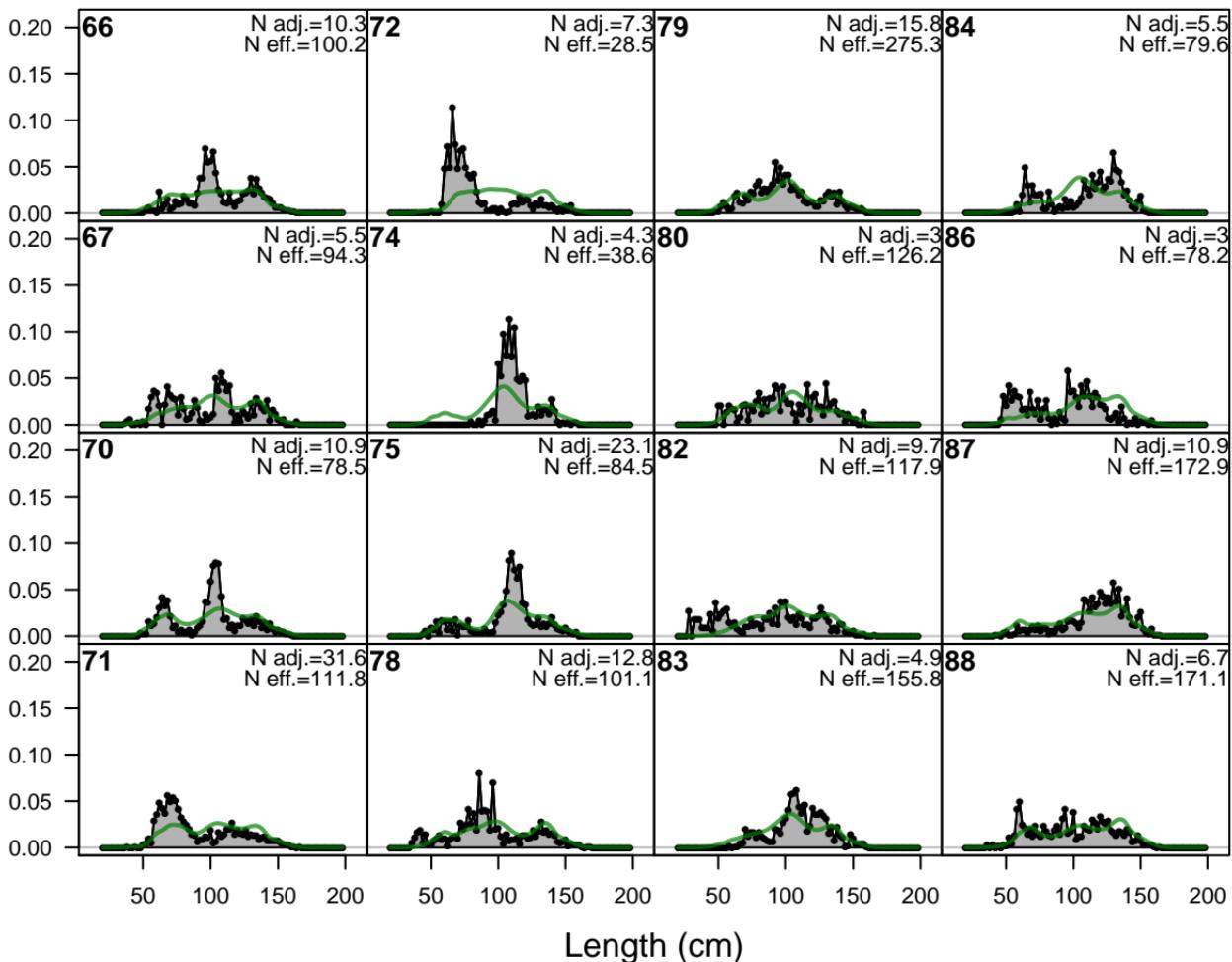
# F15-DEL\_N (whole catch)



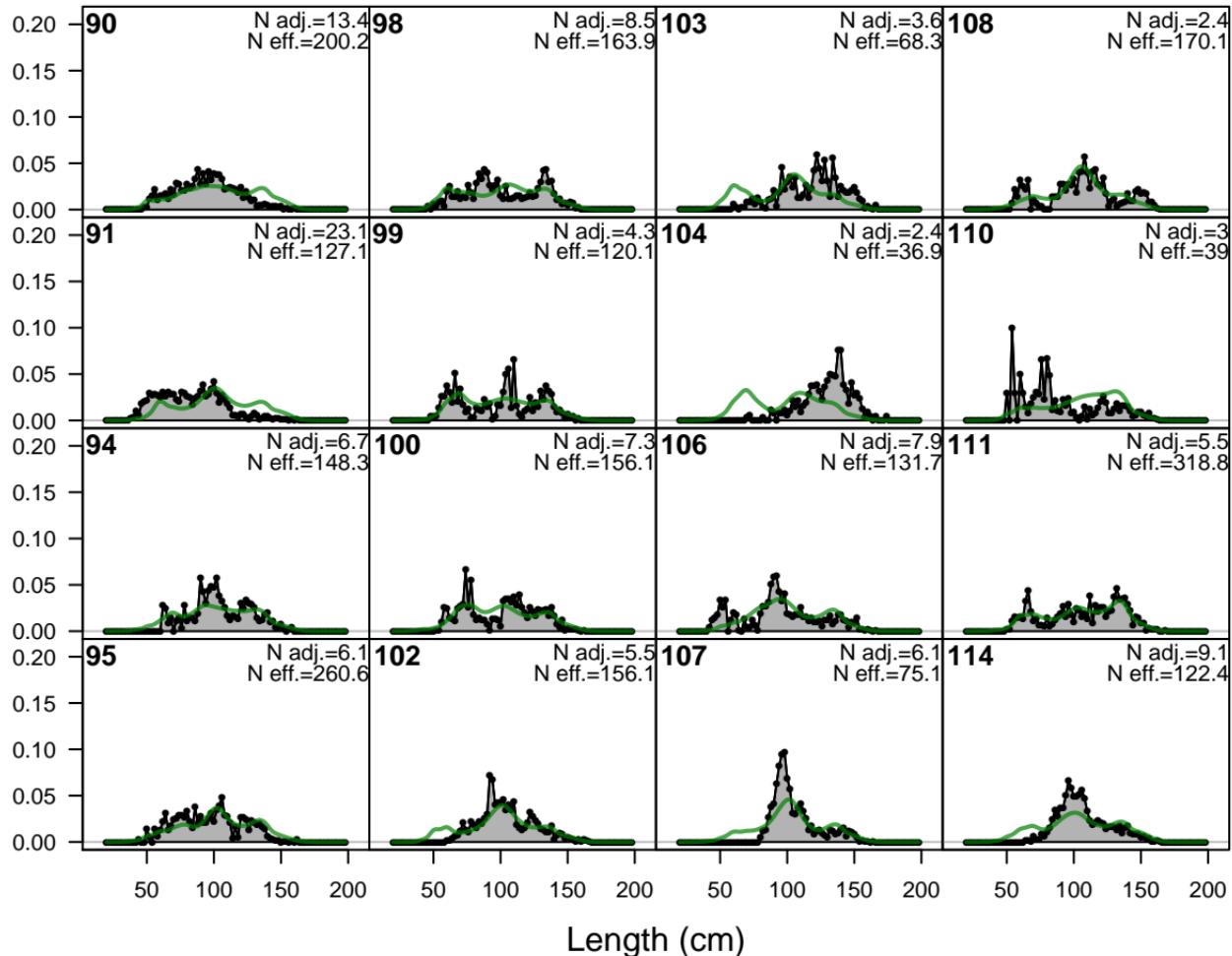
Proportion



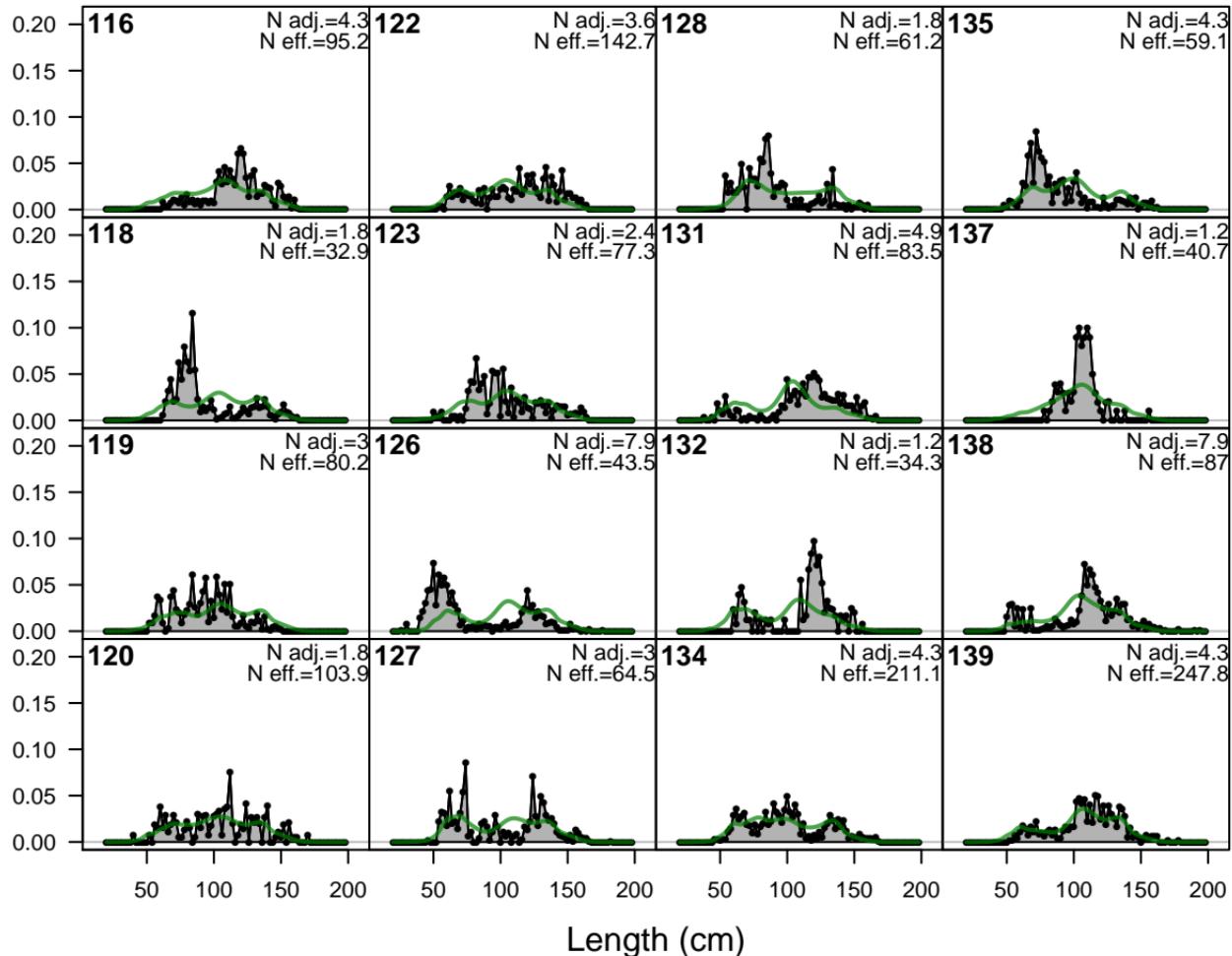
Proportion



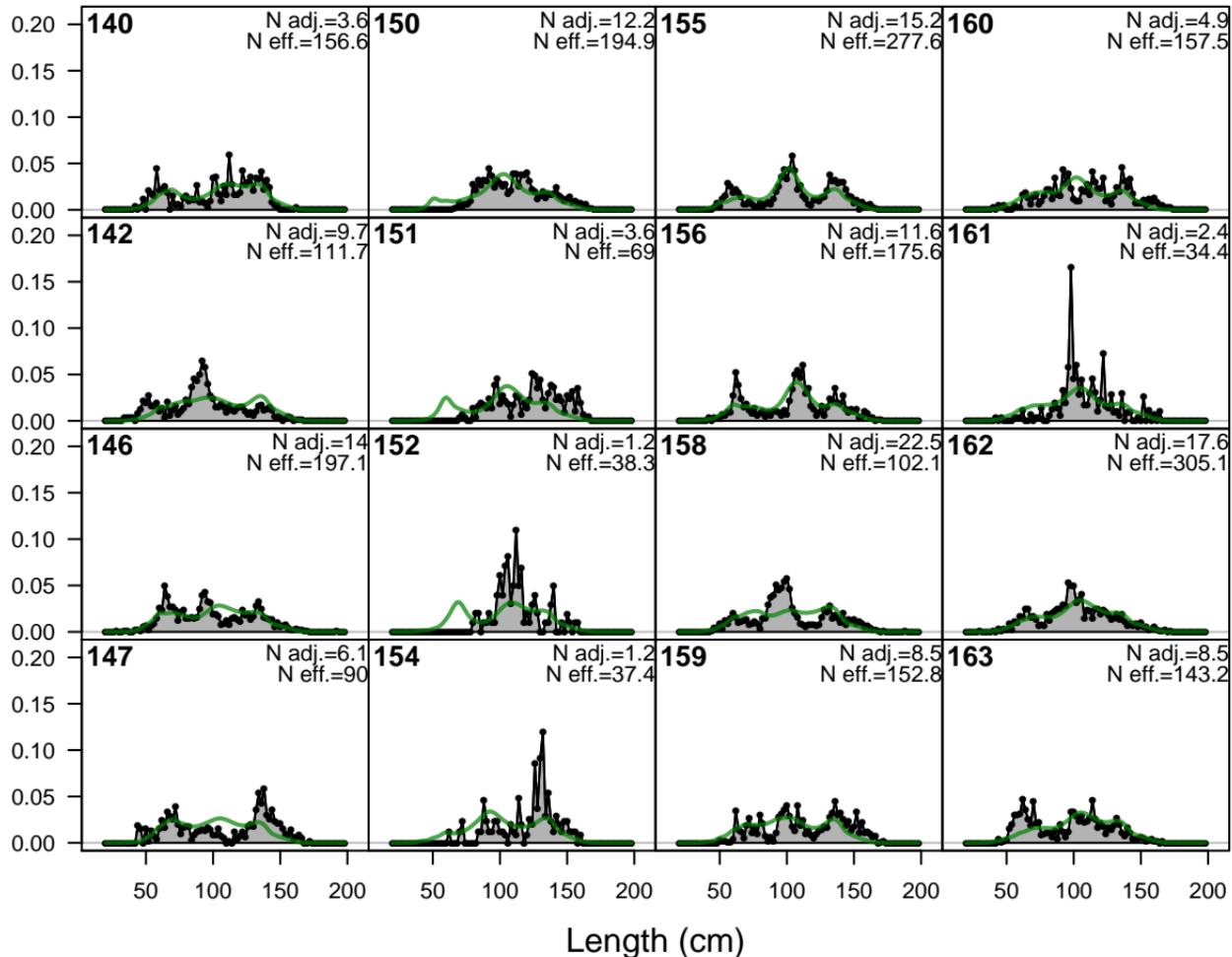
Proportion

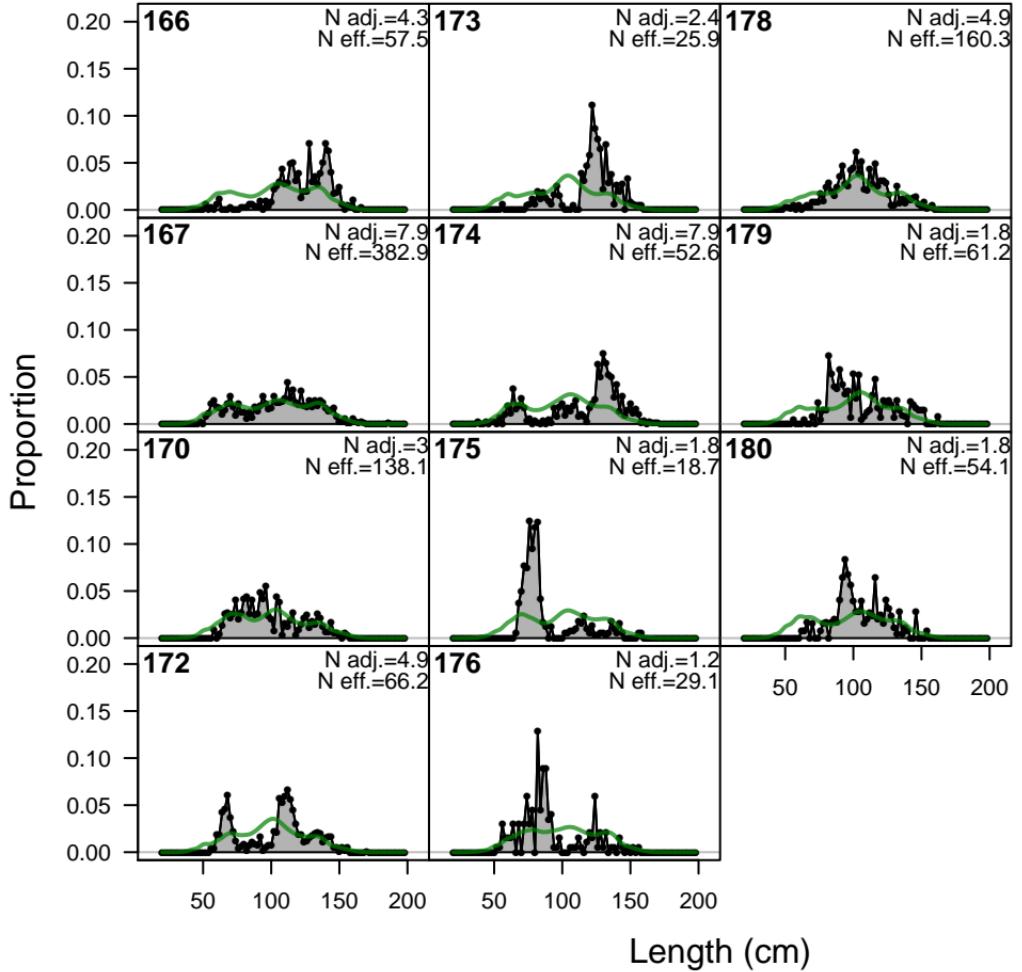


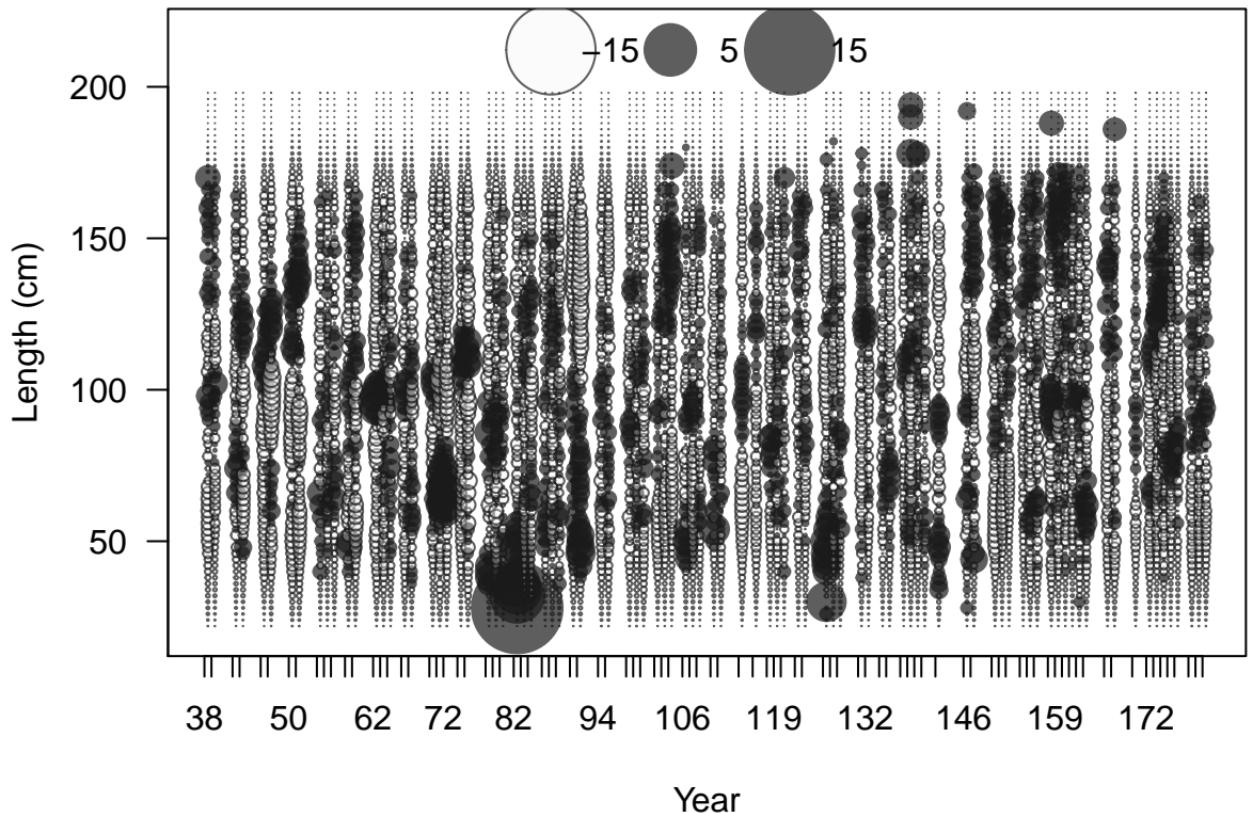
Proportion

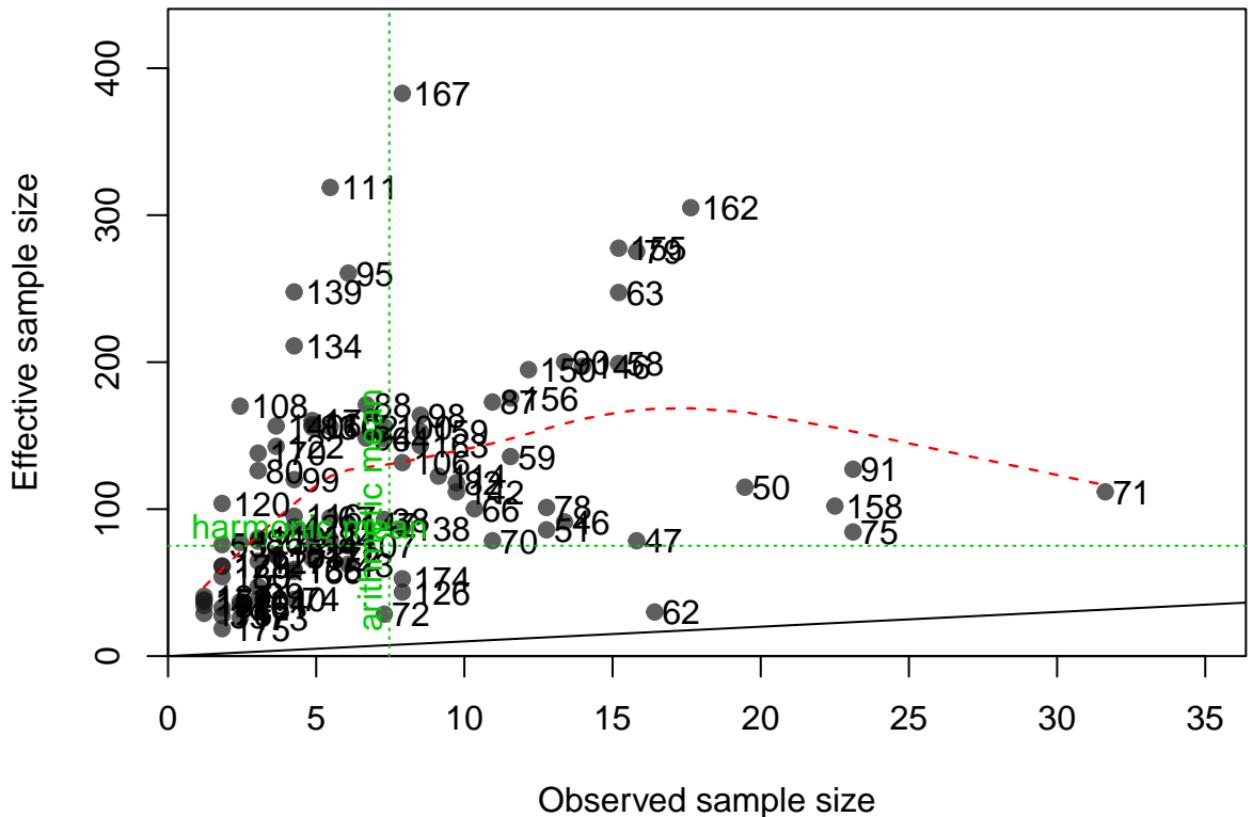


Proportion

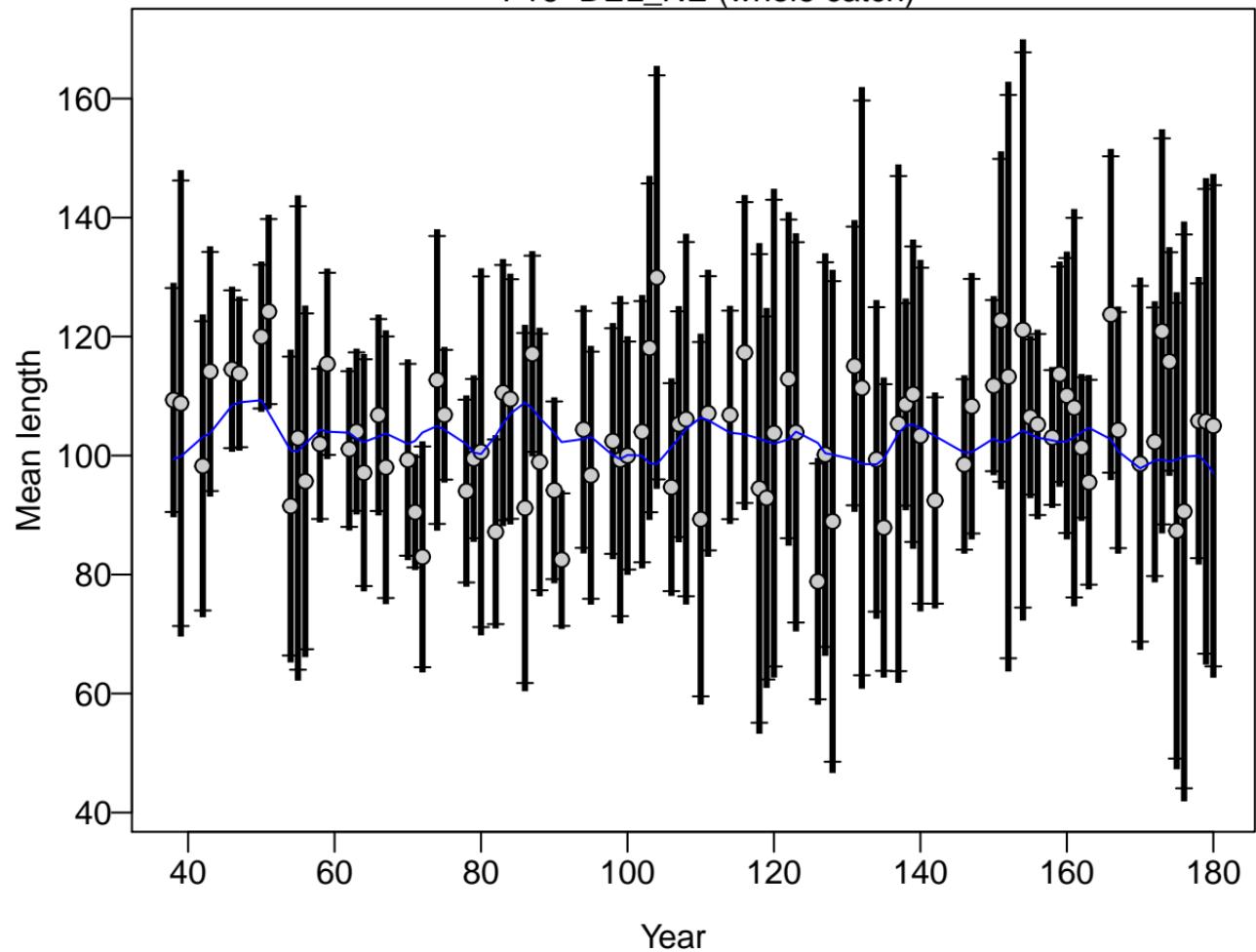




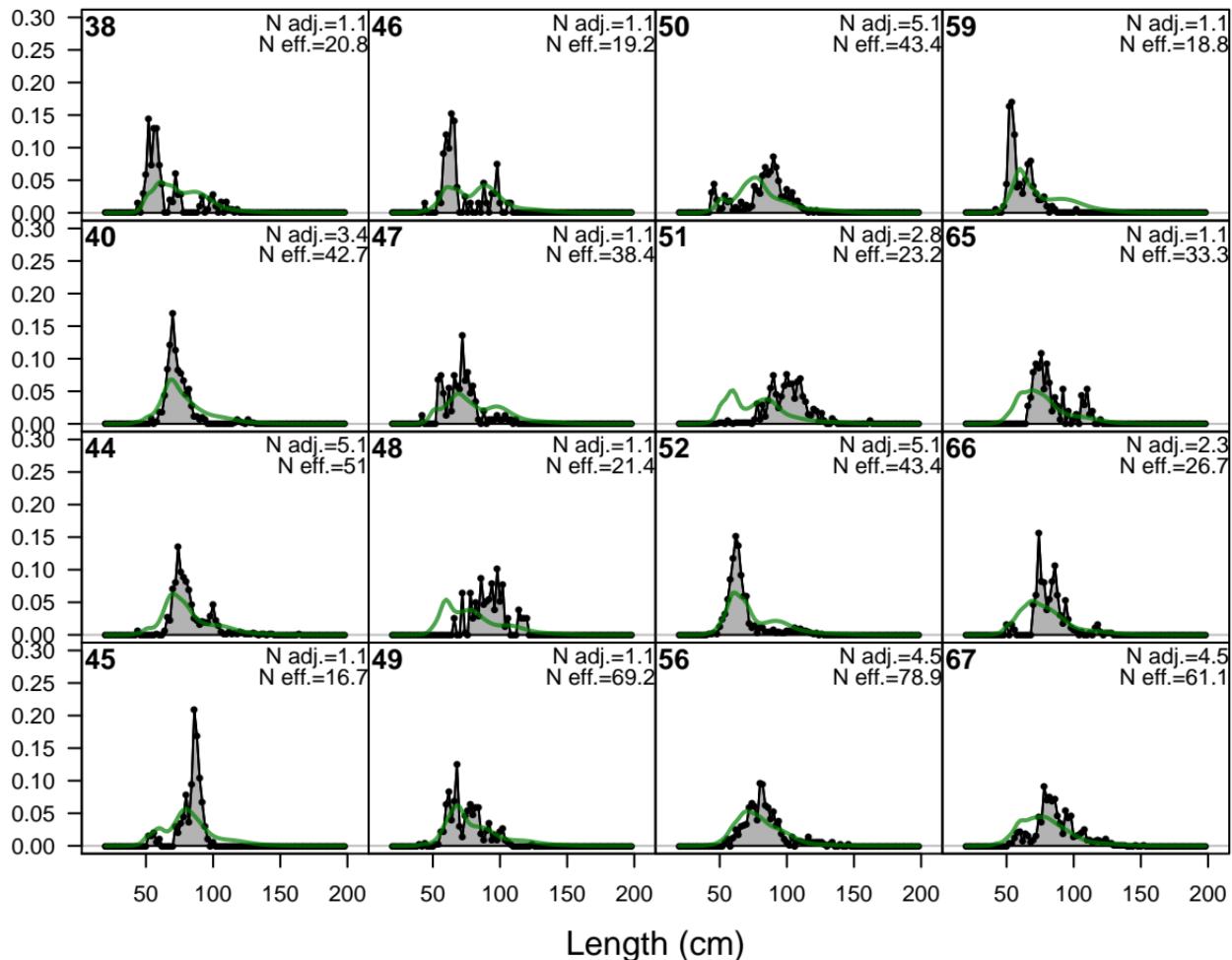


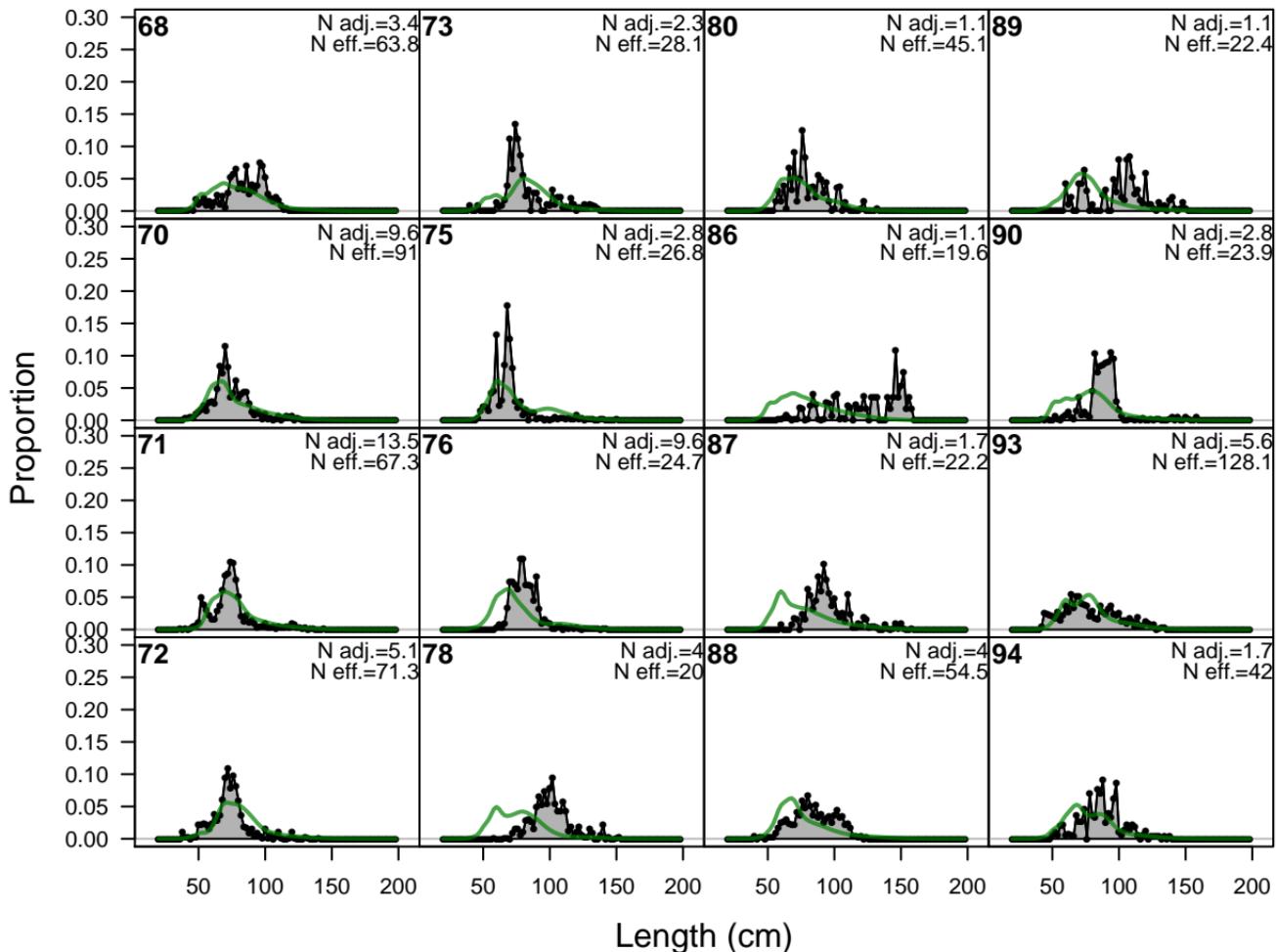


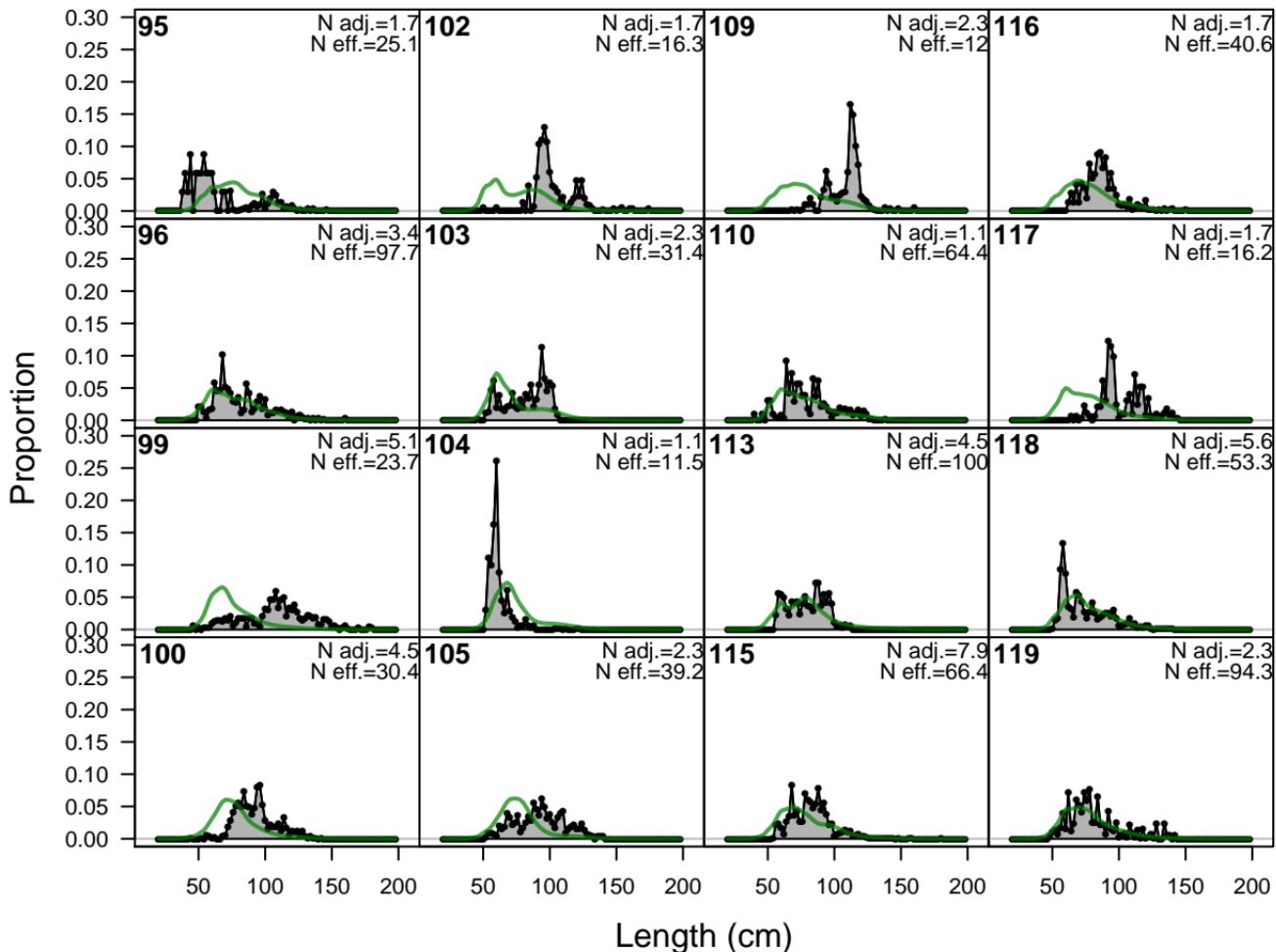
# F16-DEL\_NE (whole catch)

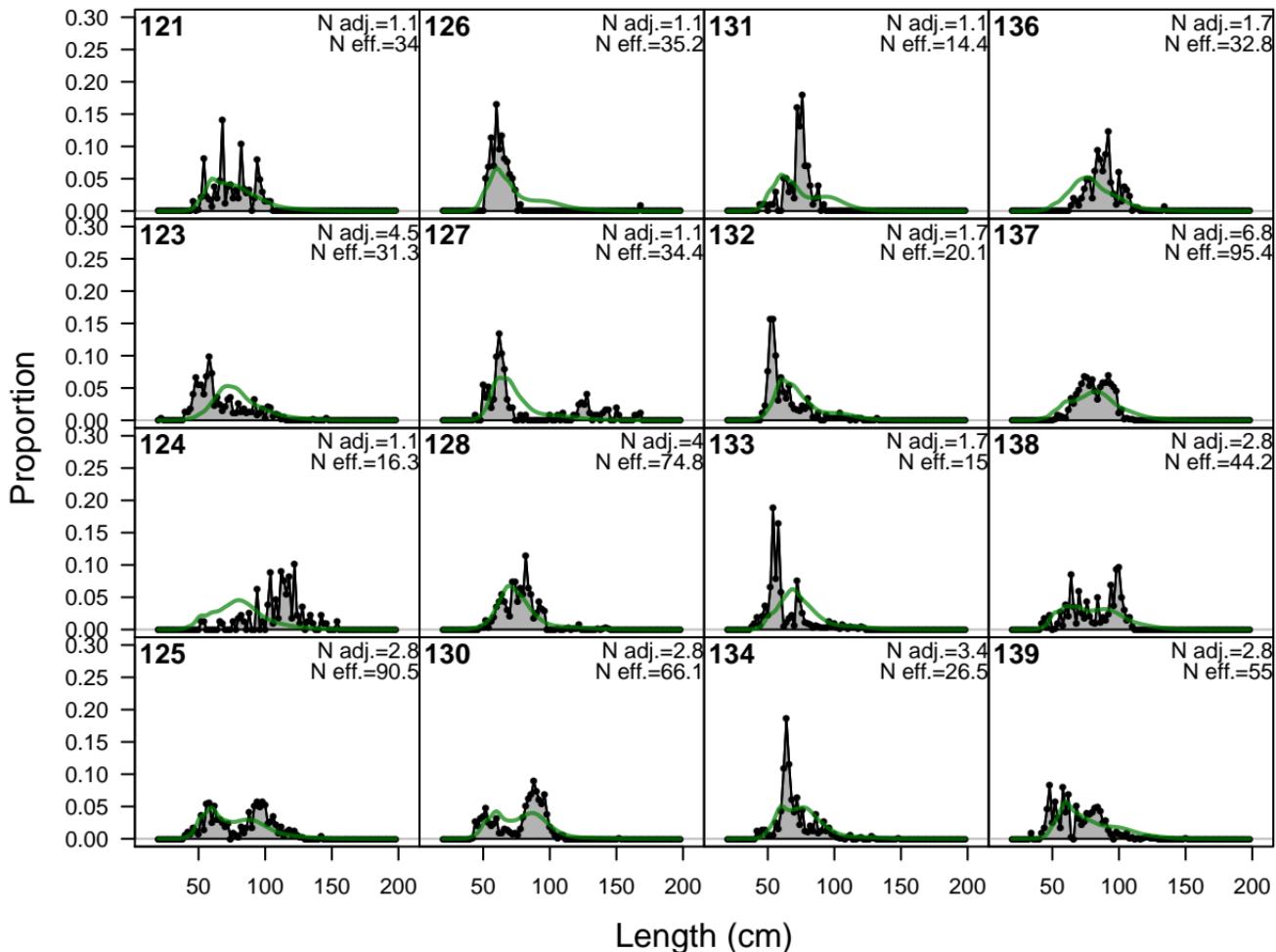


Proportion

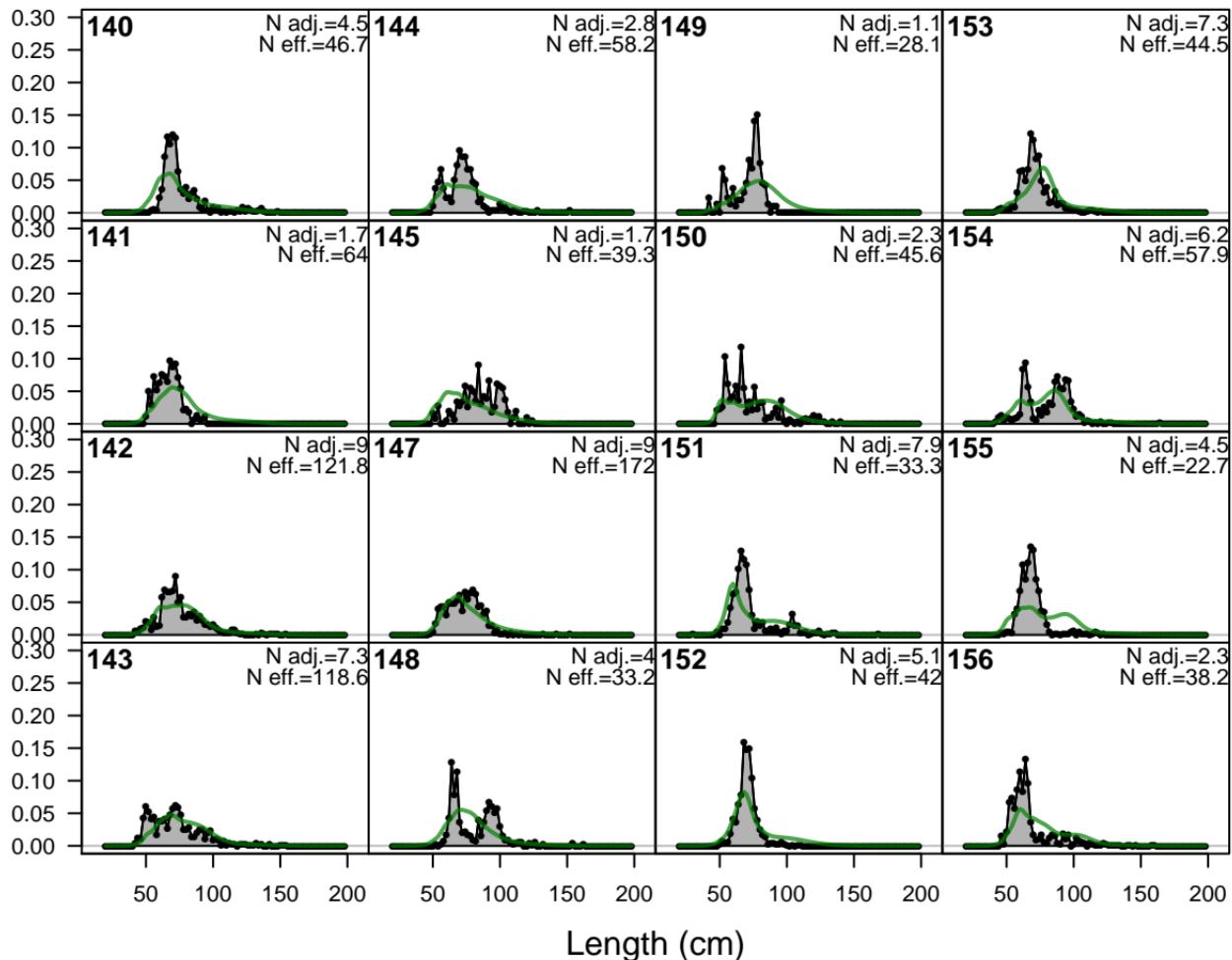




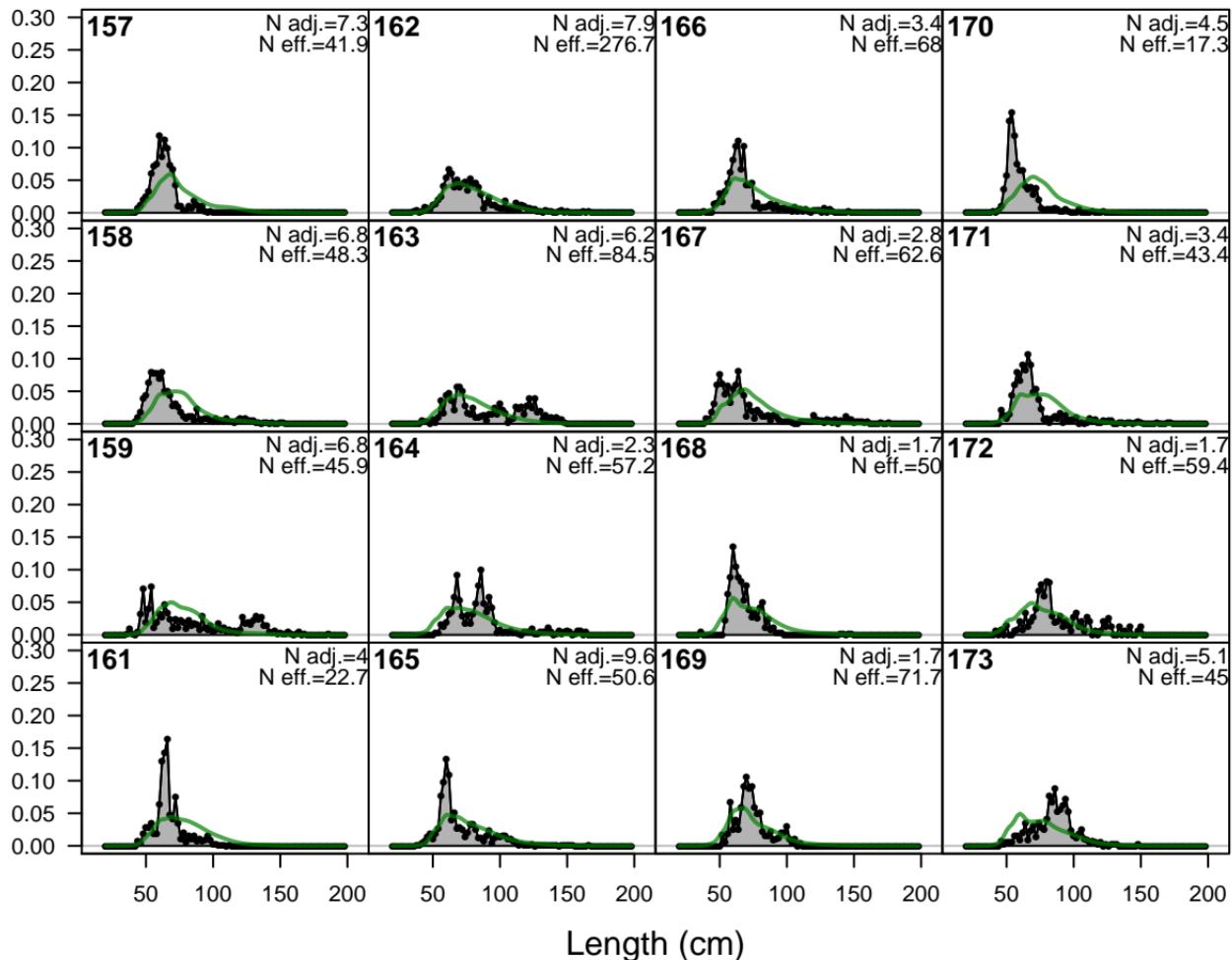




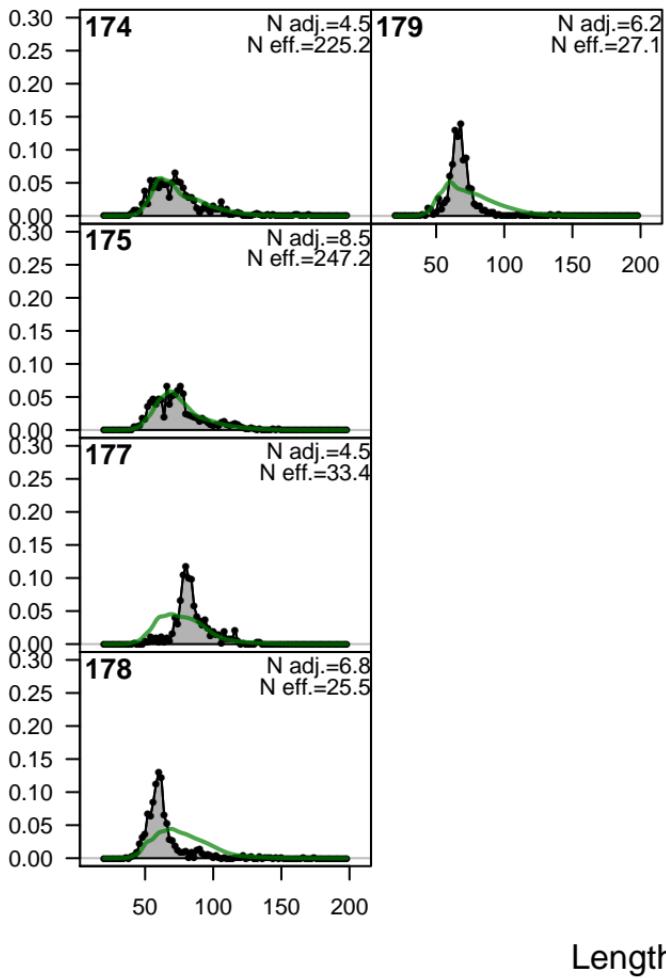
Proportion

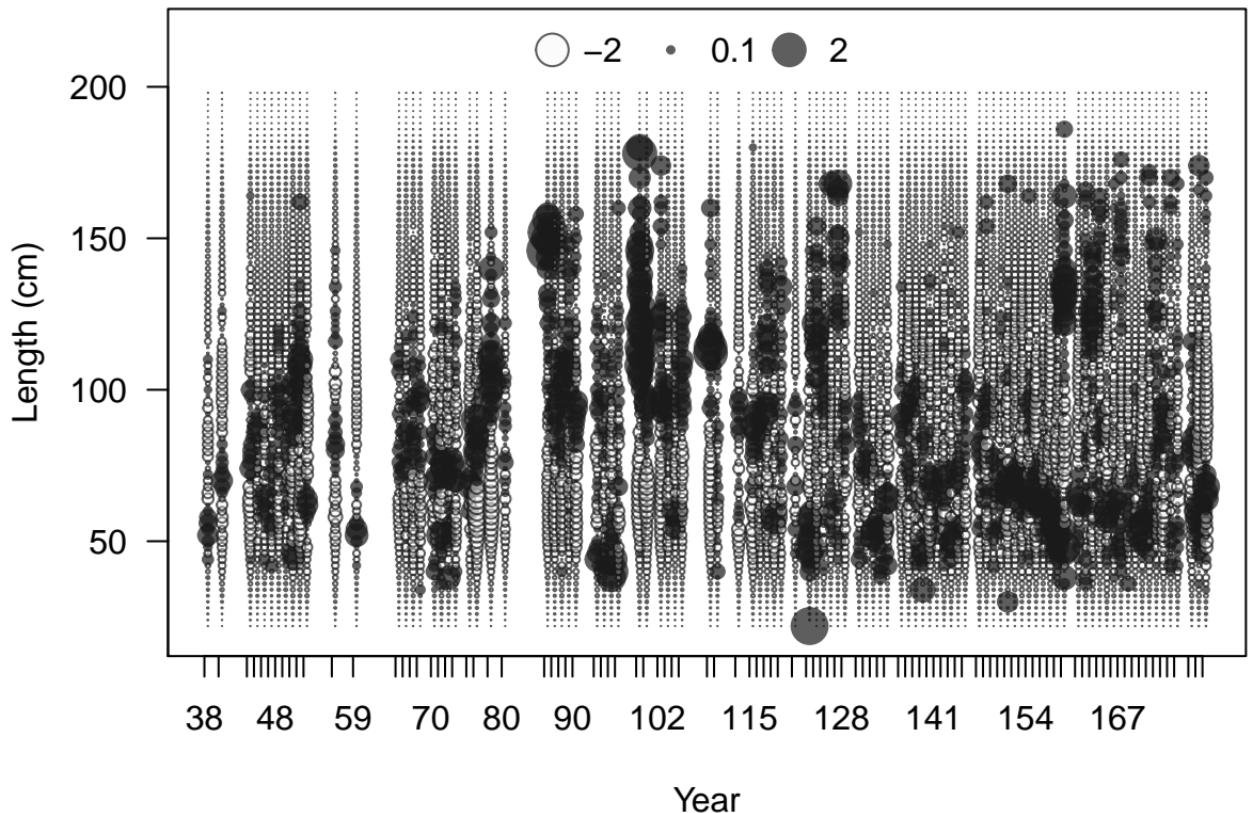


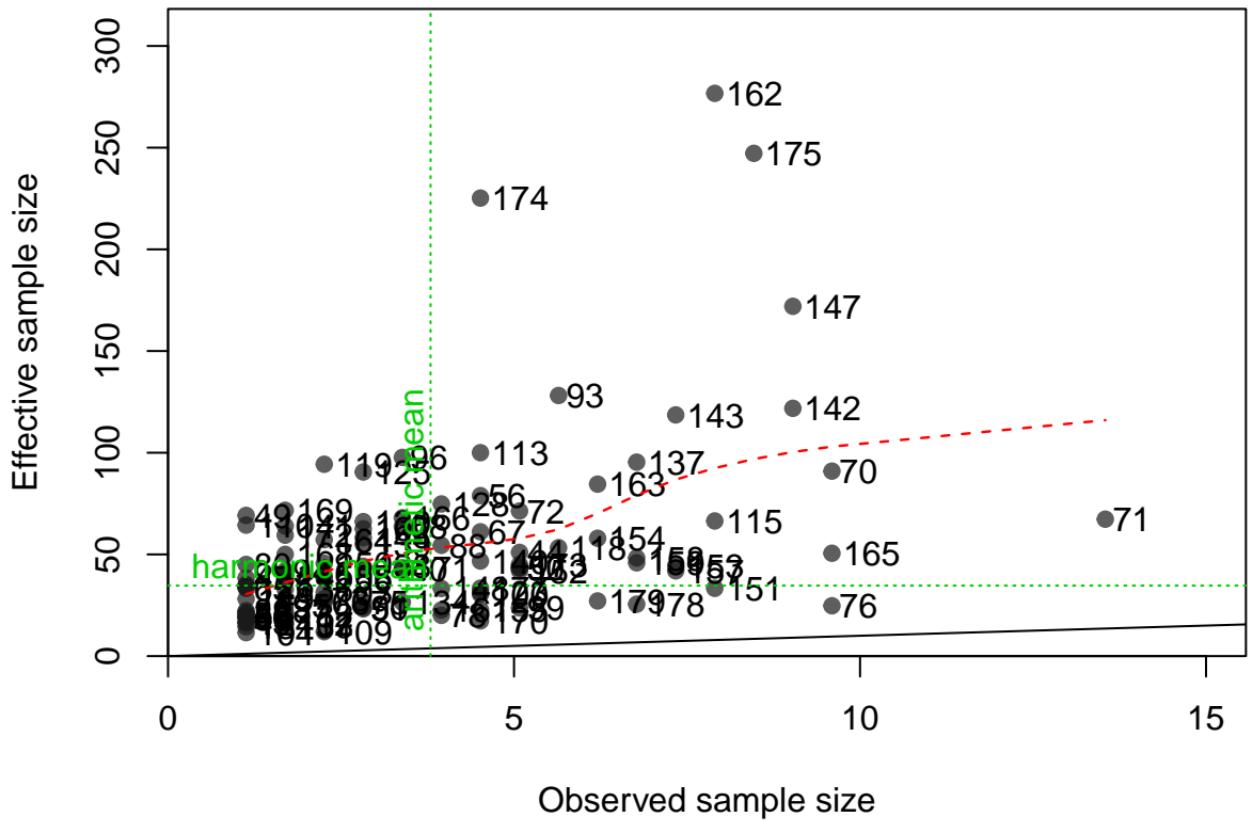
Proportion



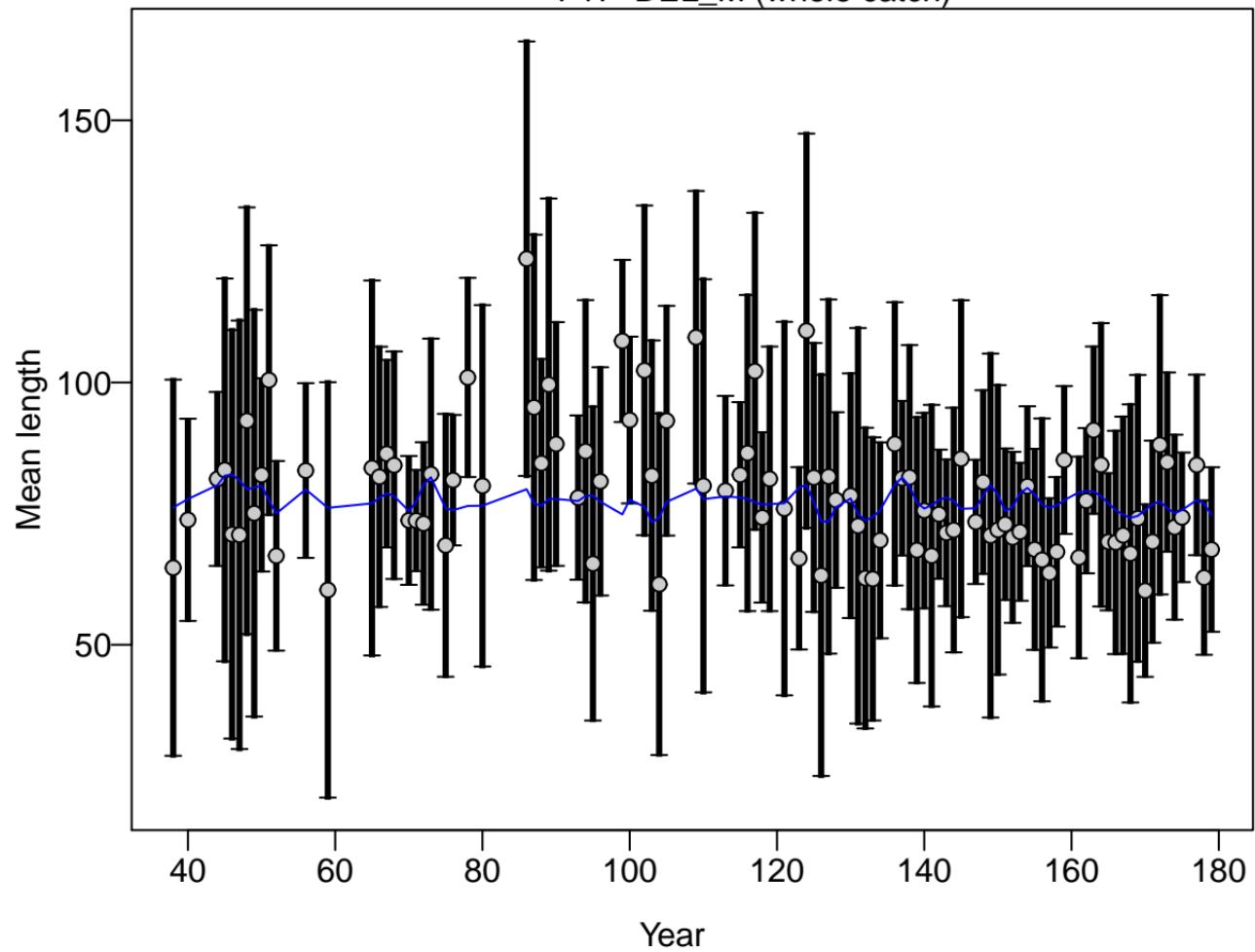
Proportion



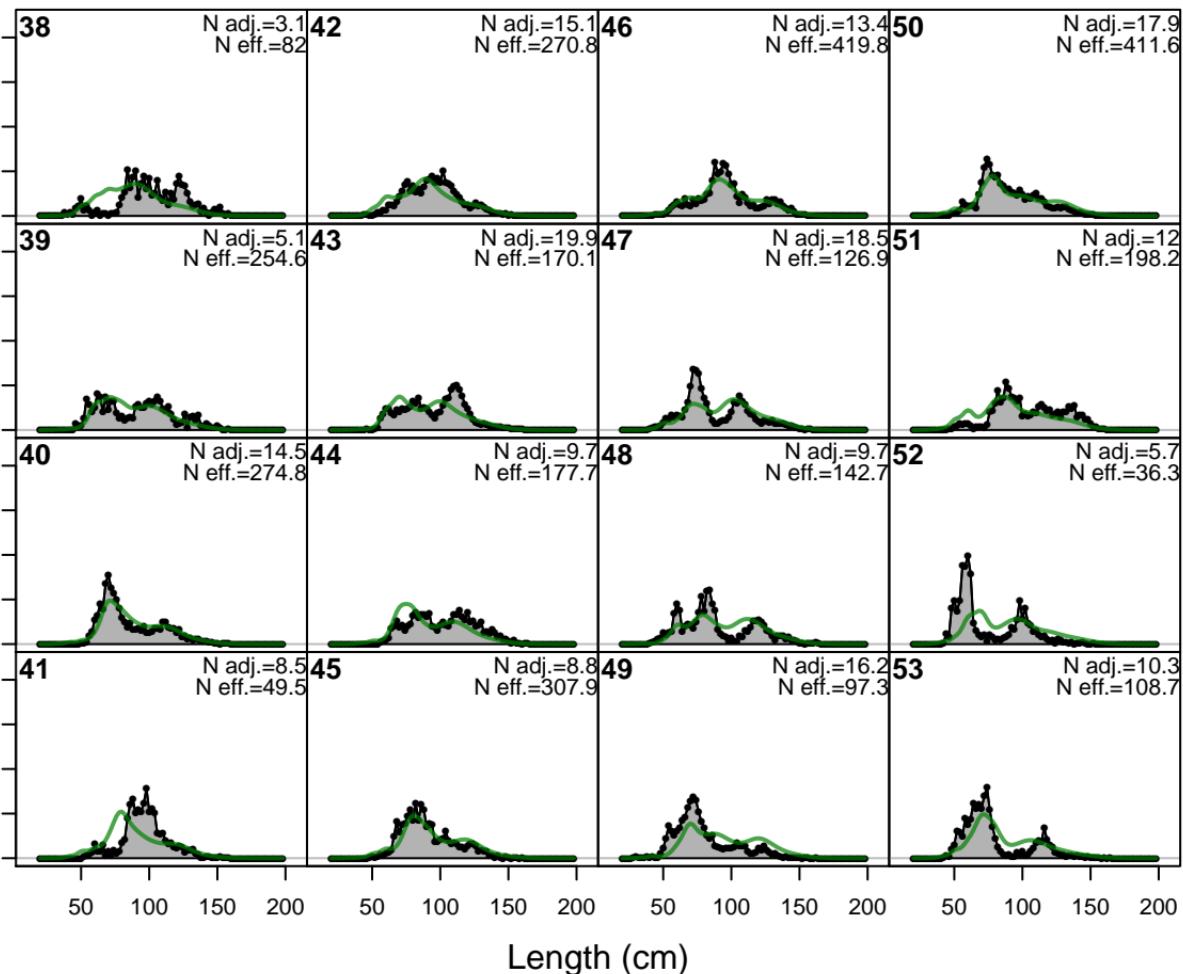




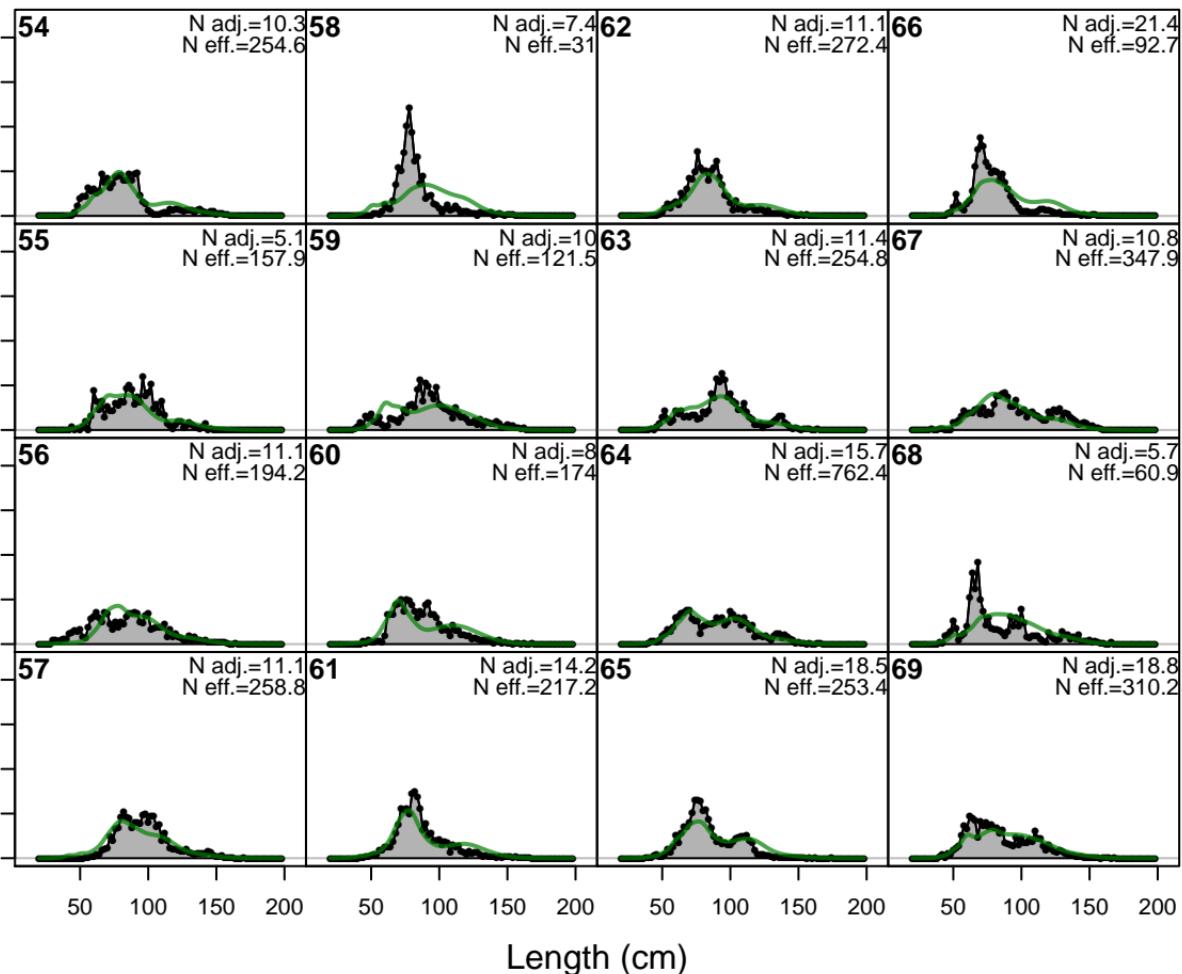
# F17-DEL\_M (whole catch)



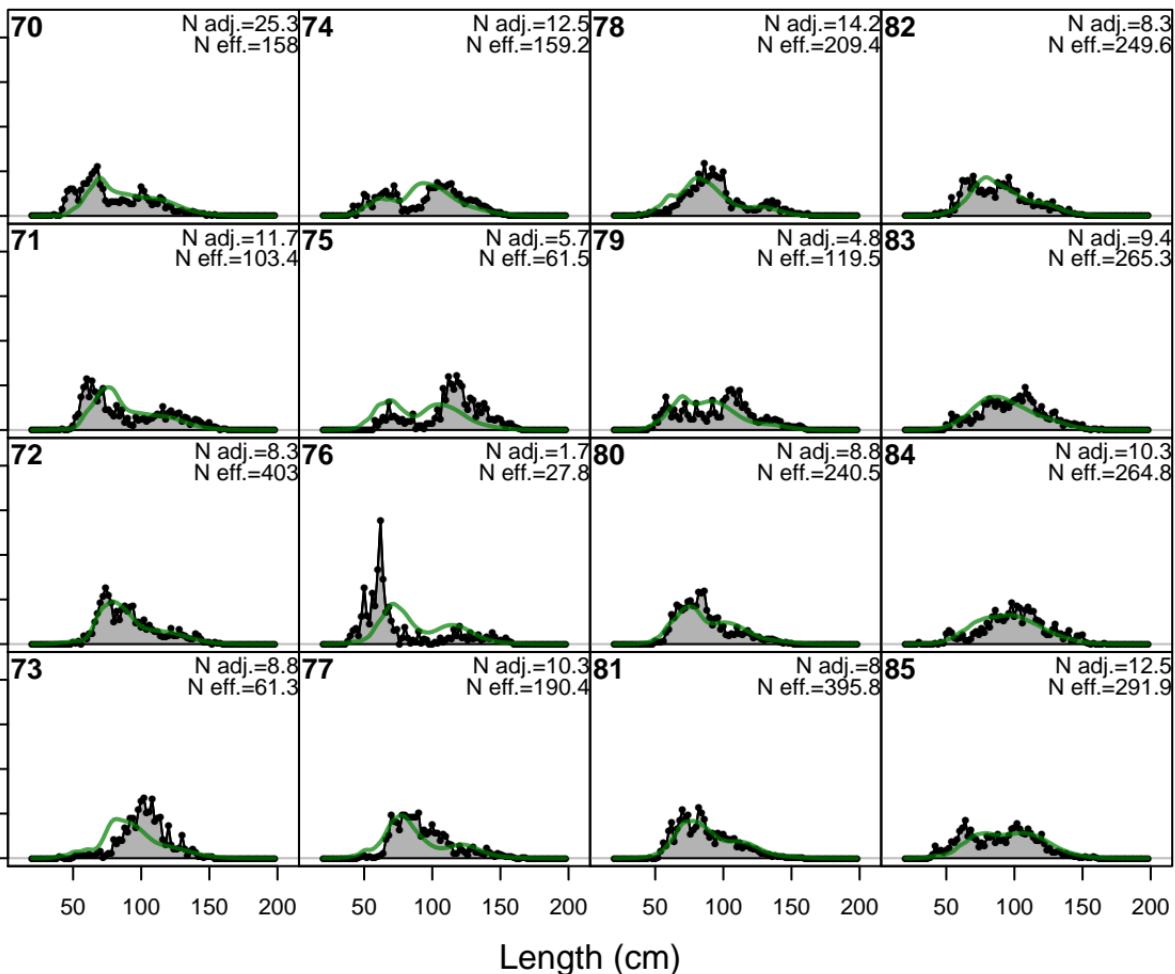
Proportion



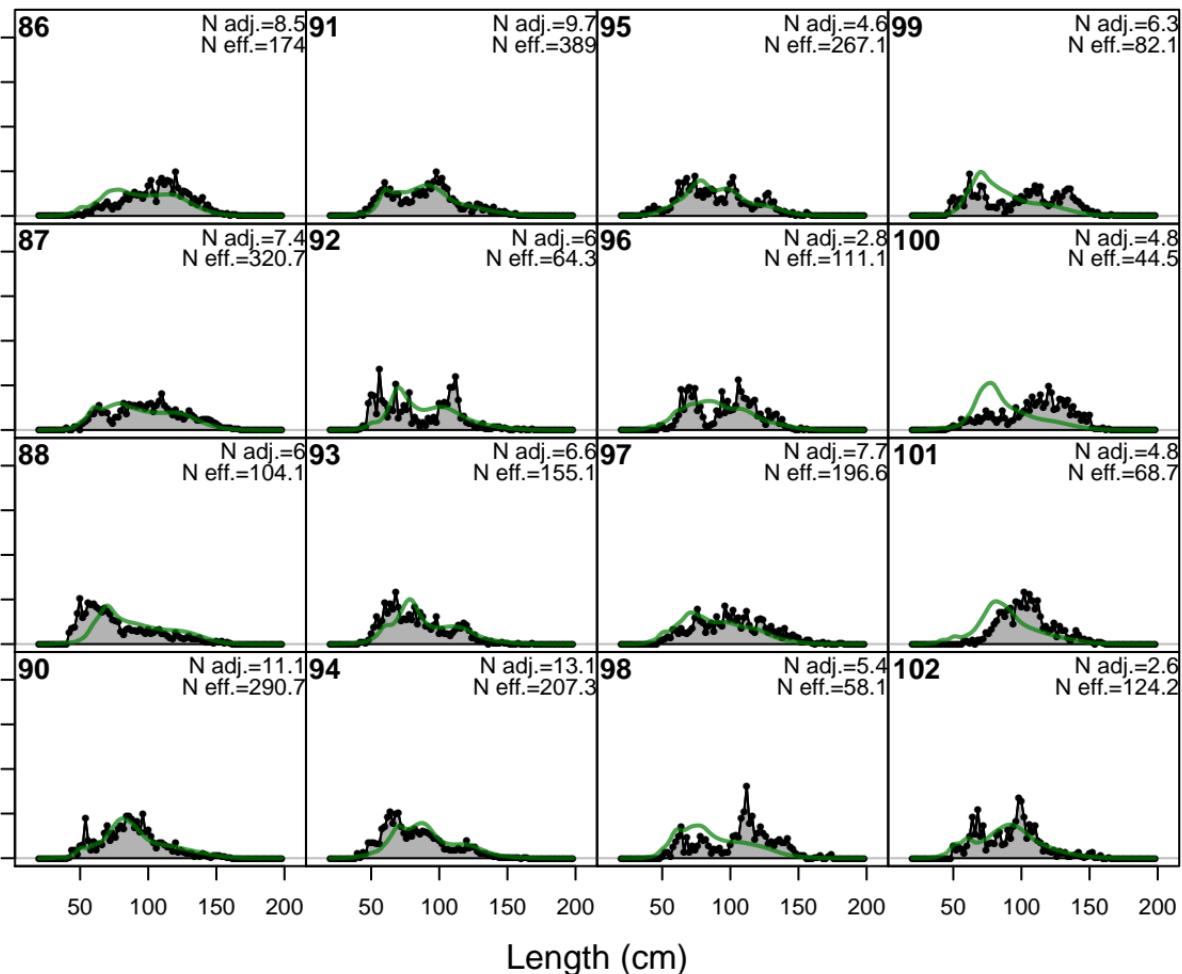
Proportion



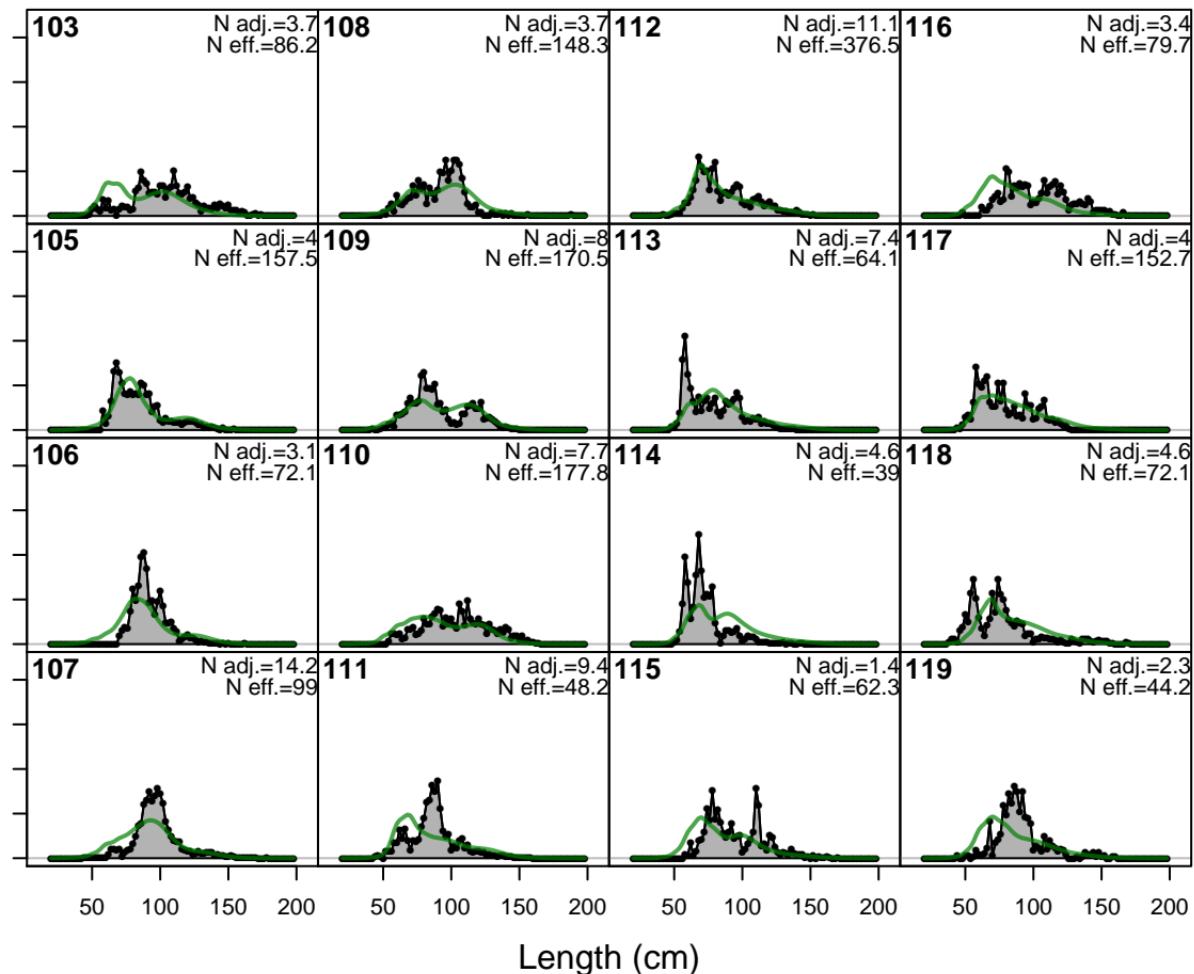
Proportion



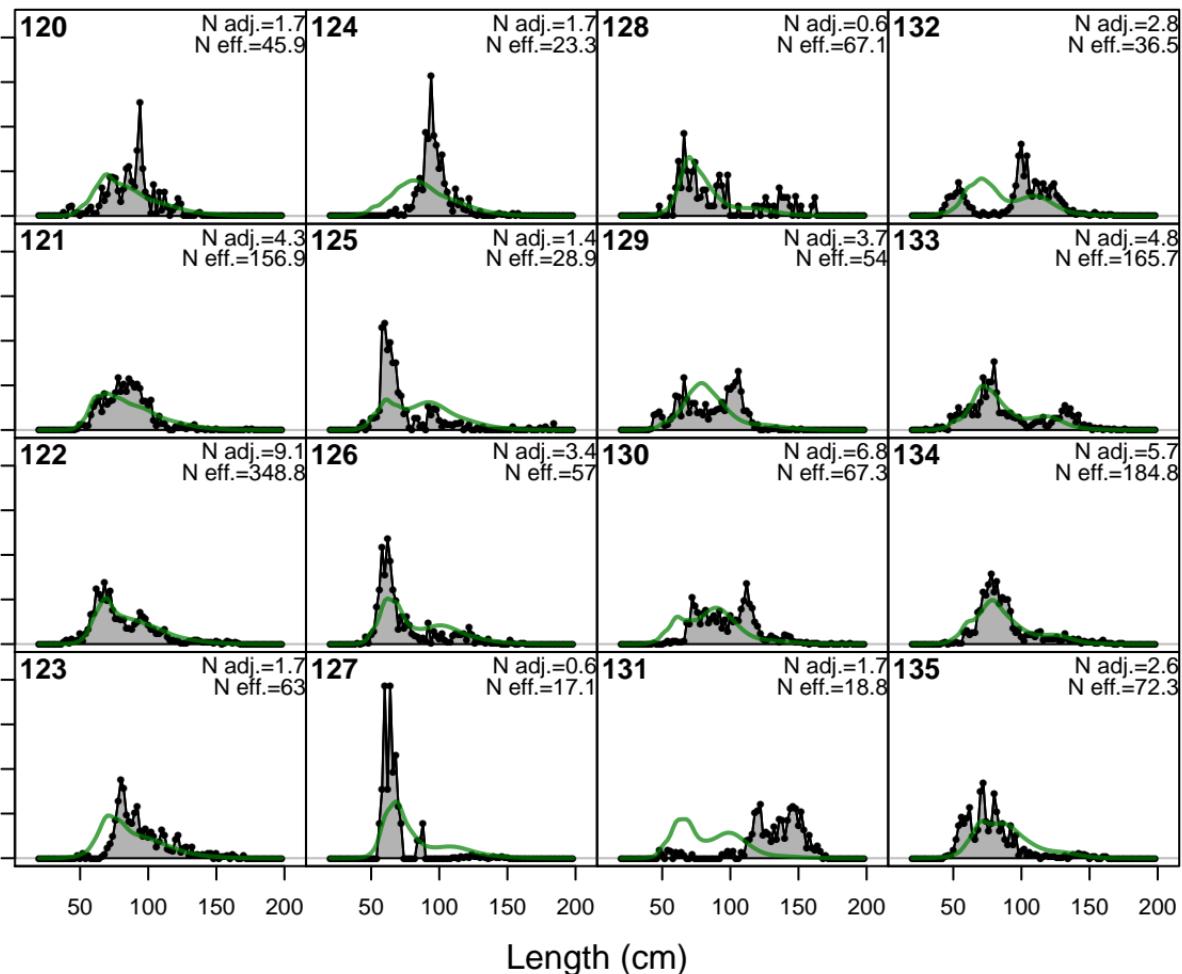
Proportion



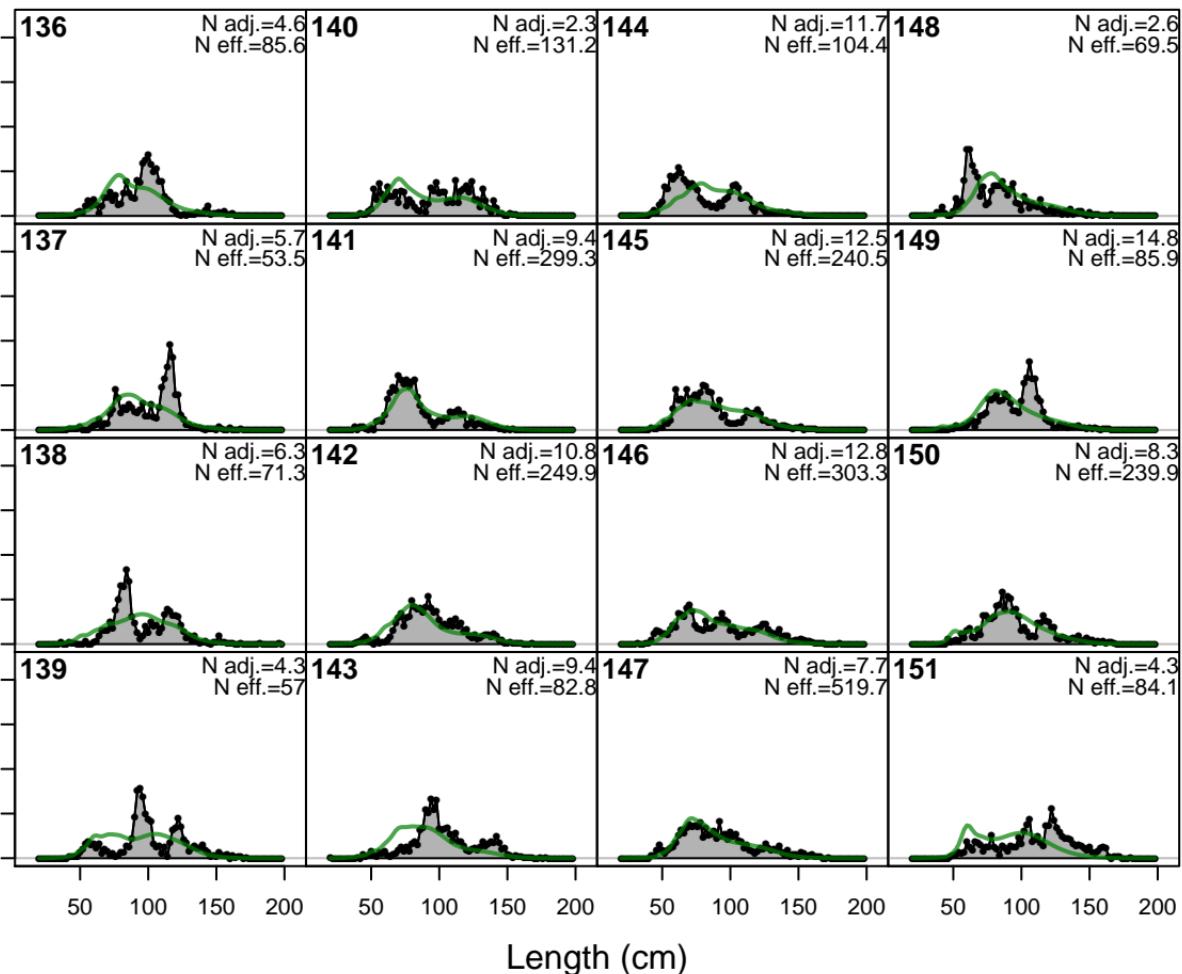
Proportion



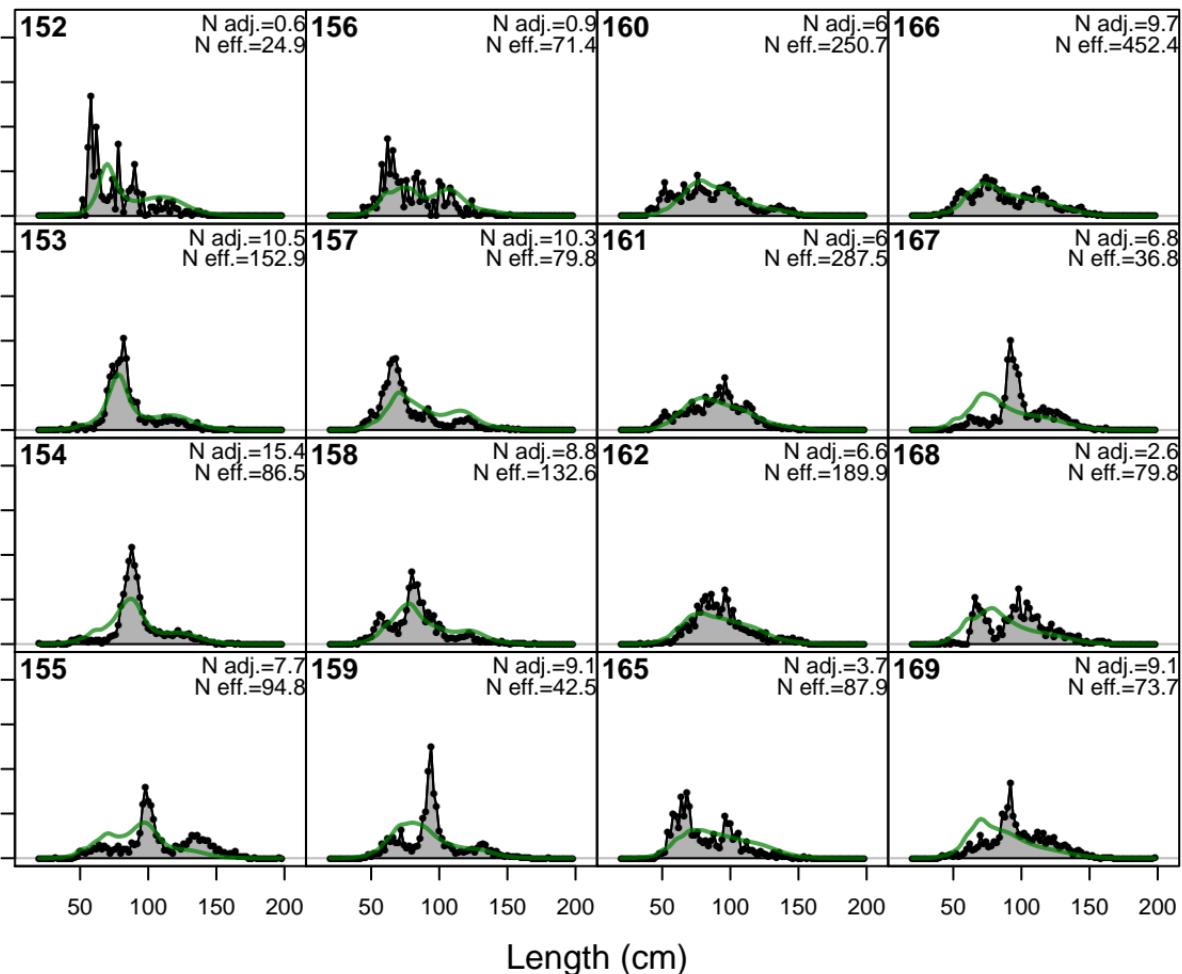
Proportion

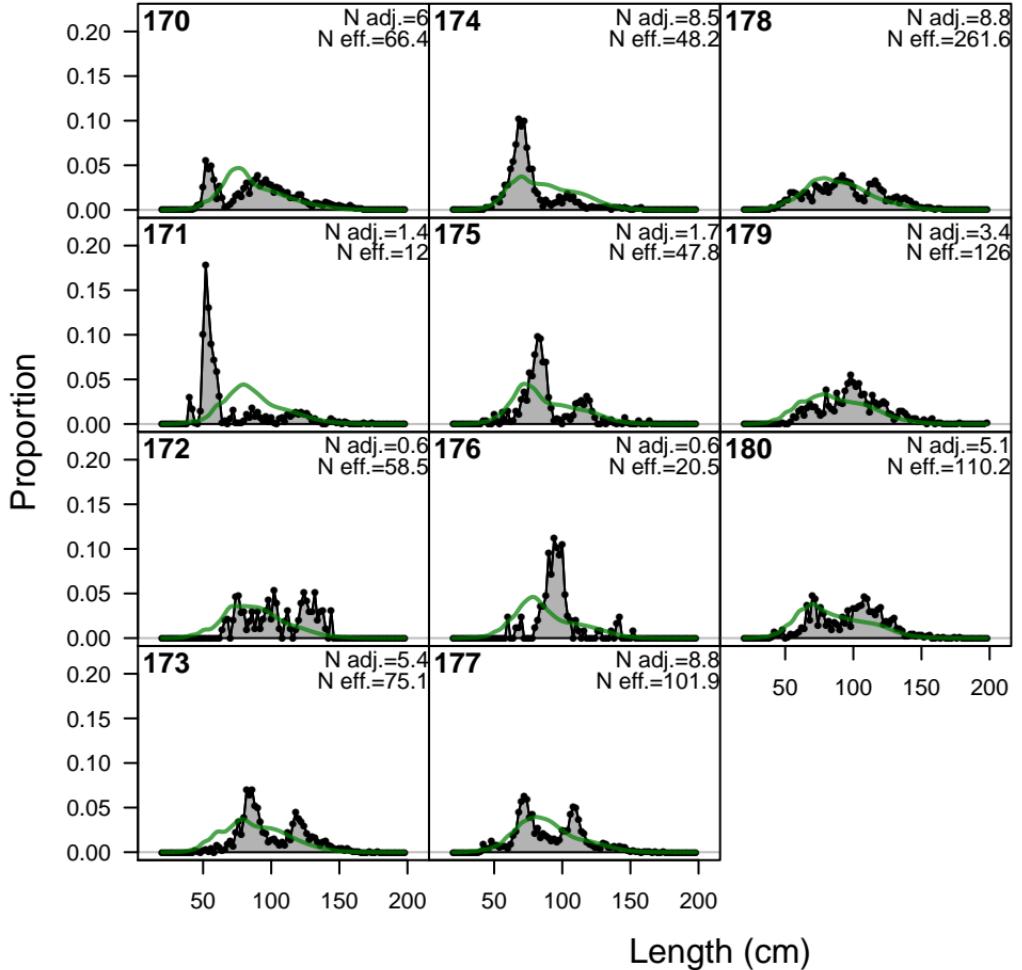


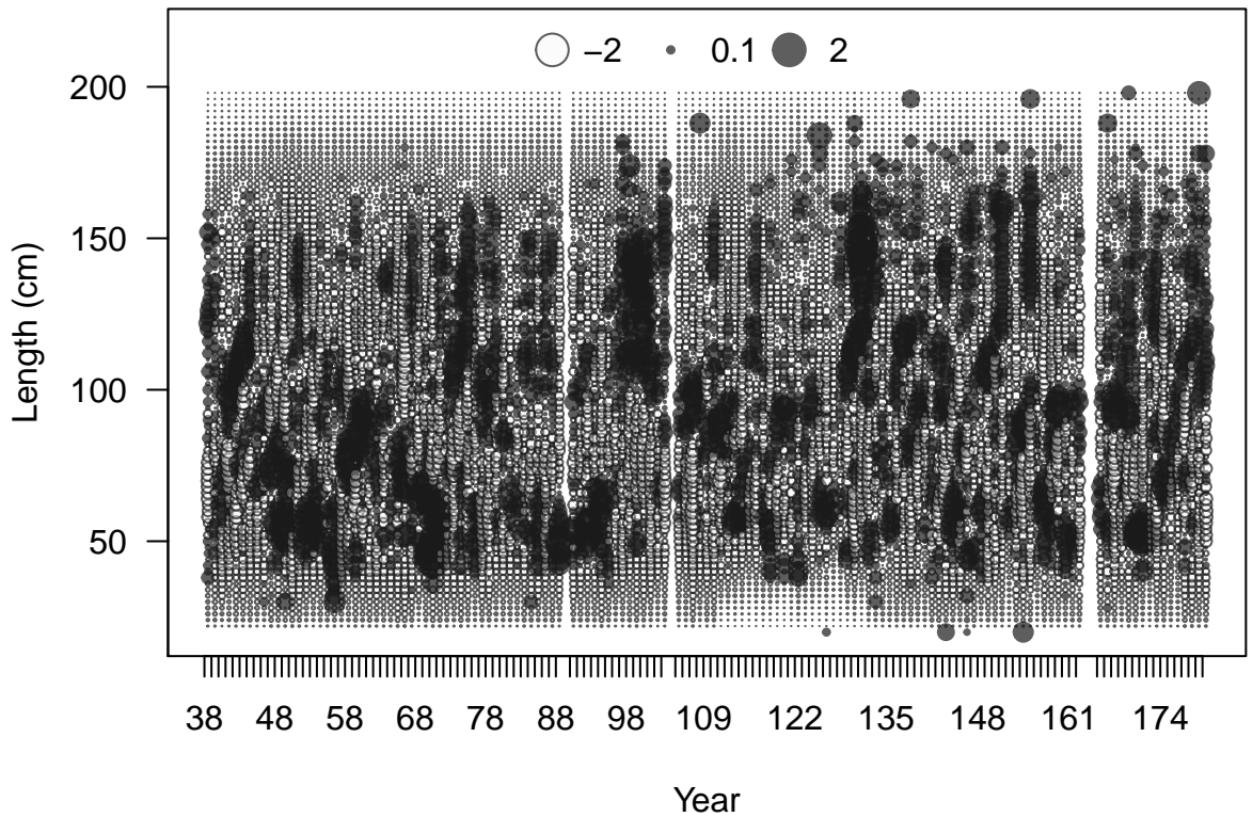
Proportion

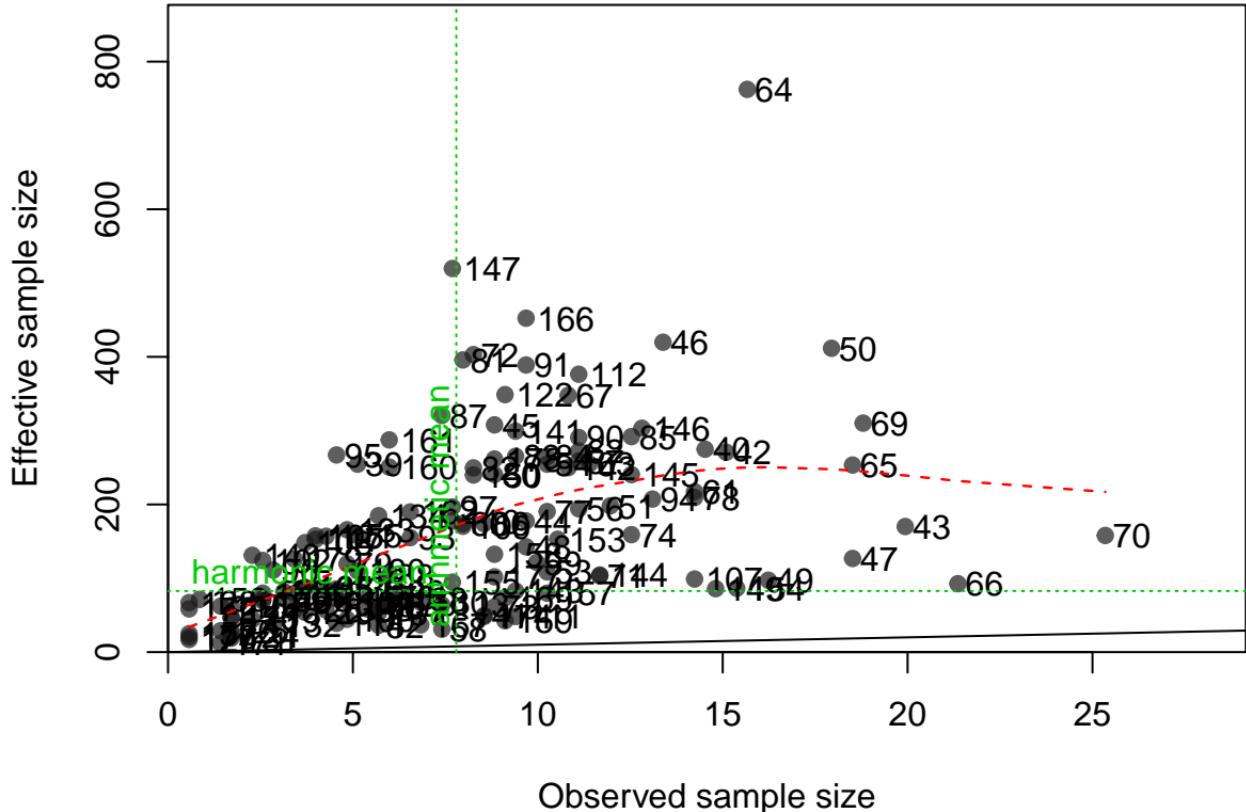


Proportion

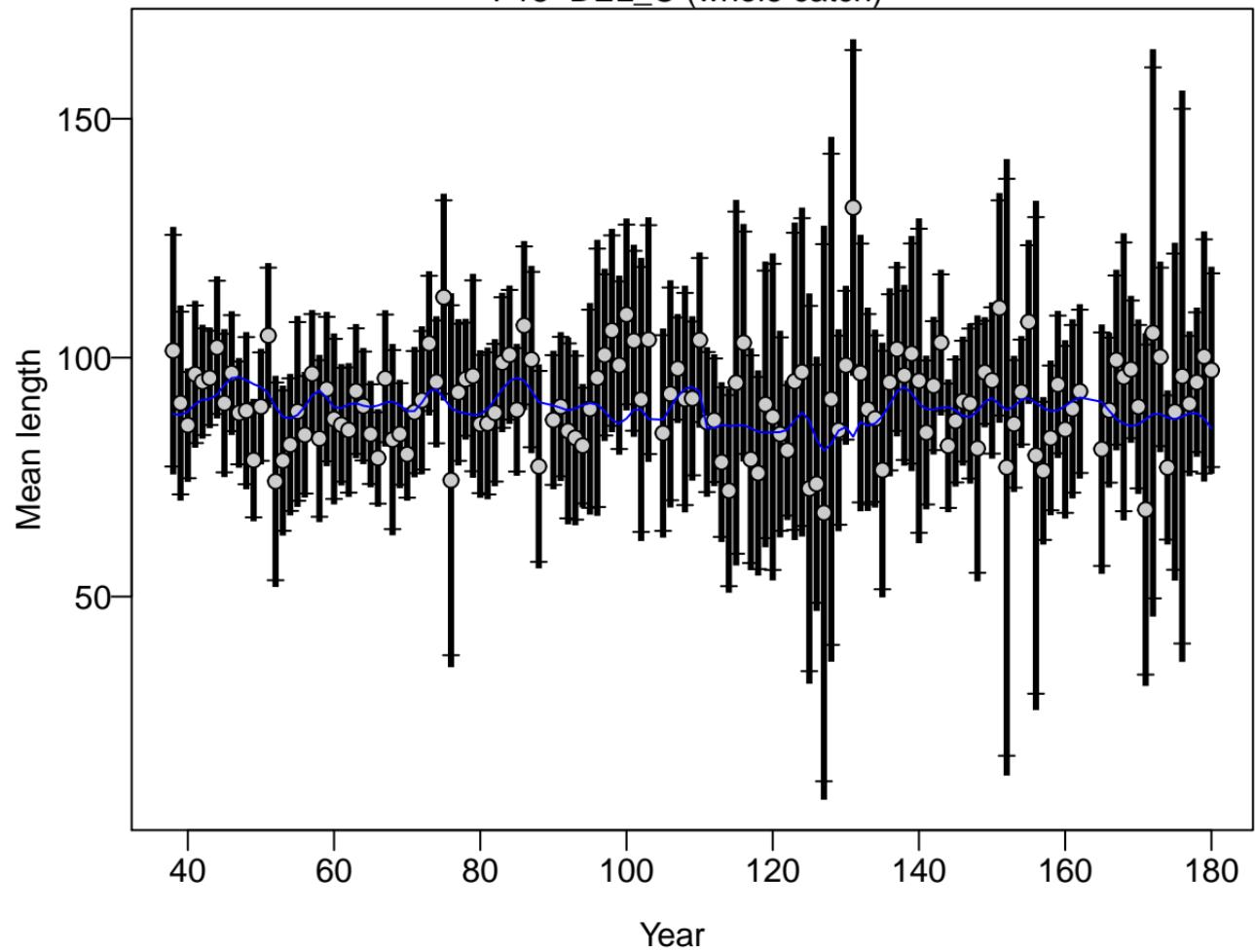




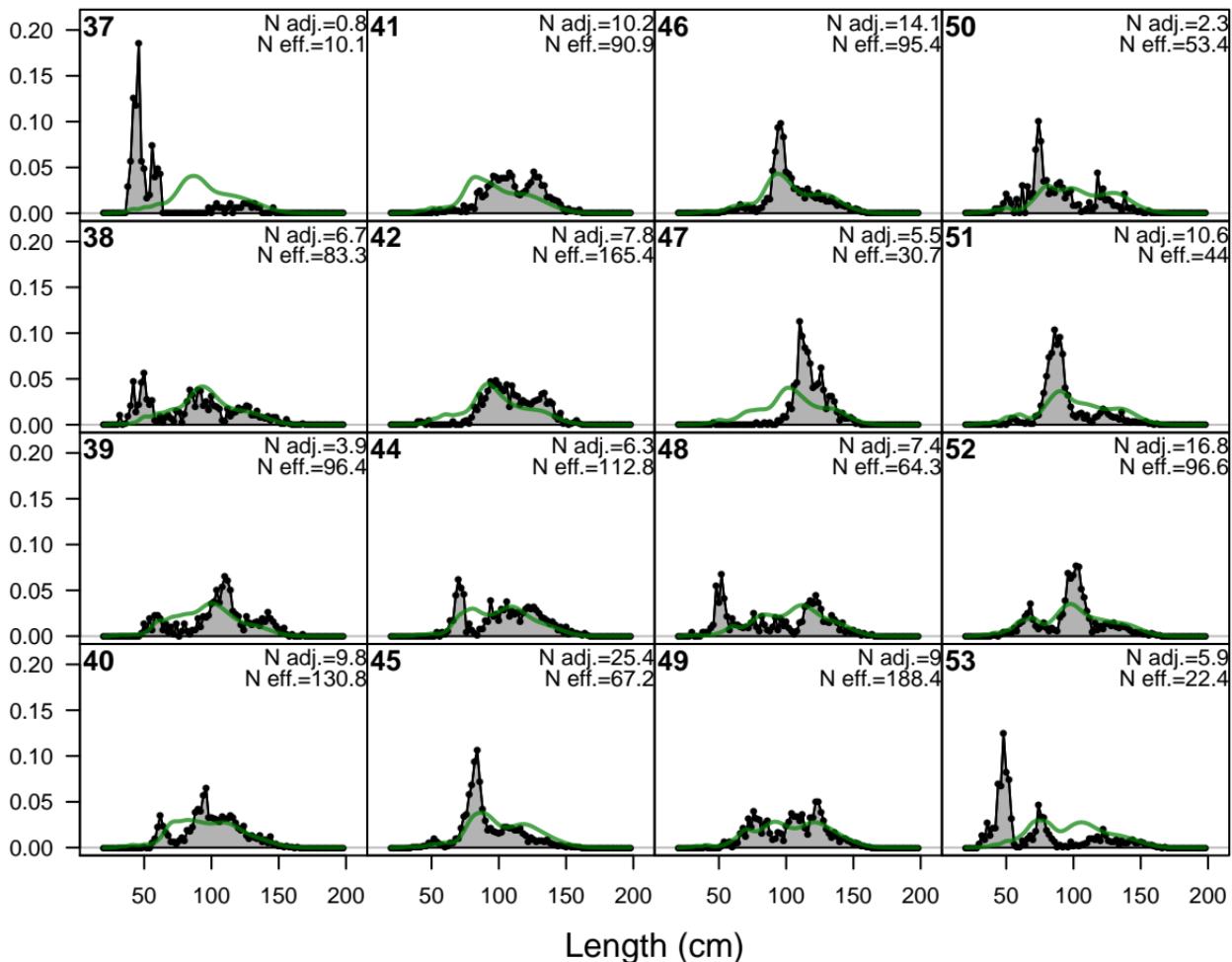




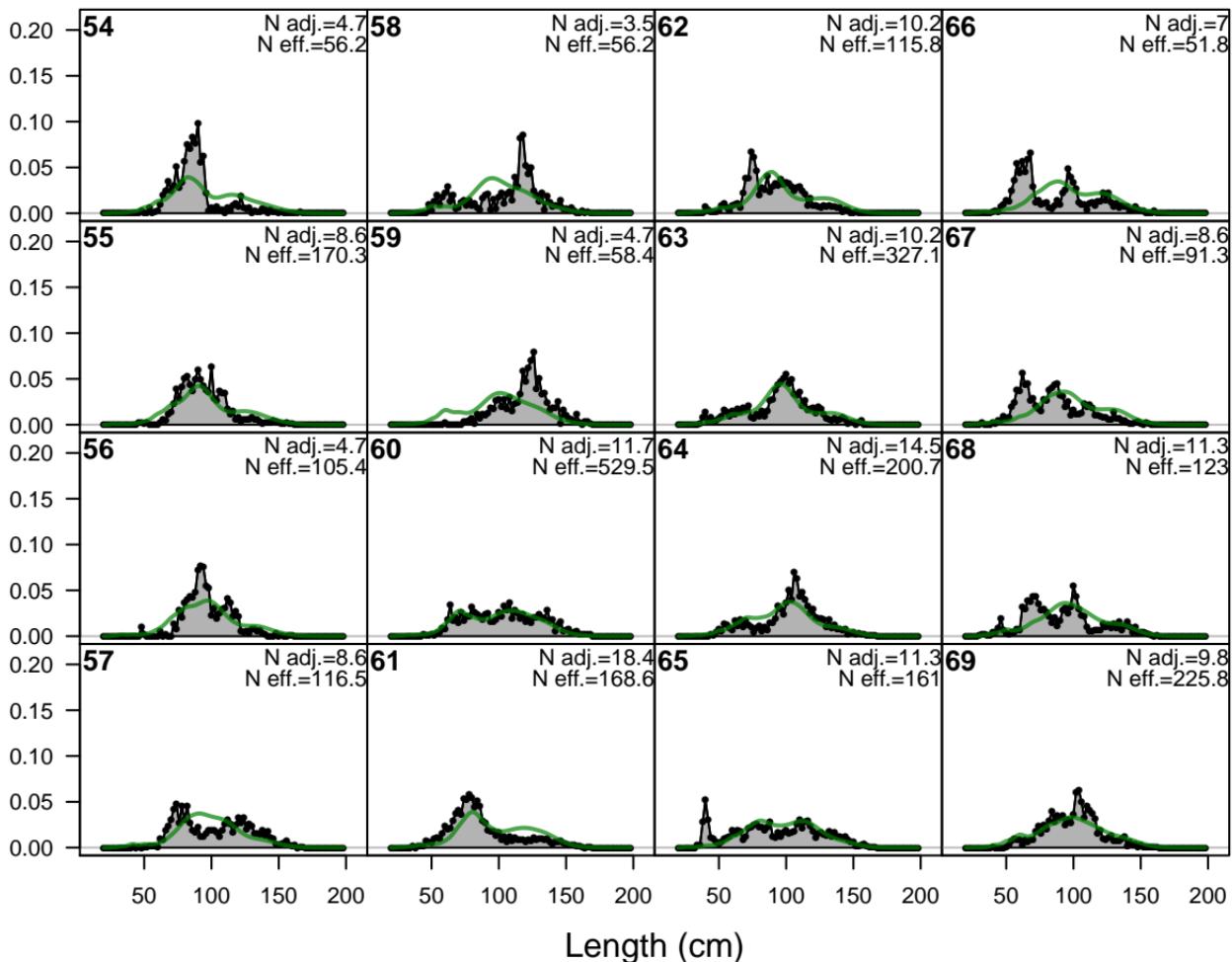
# F18-DEL\_C (whole catch)



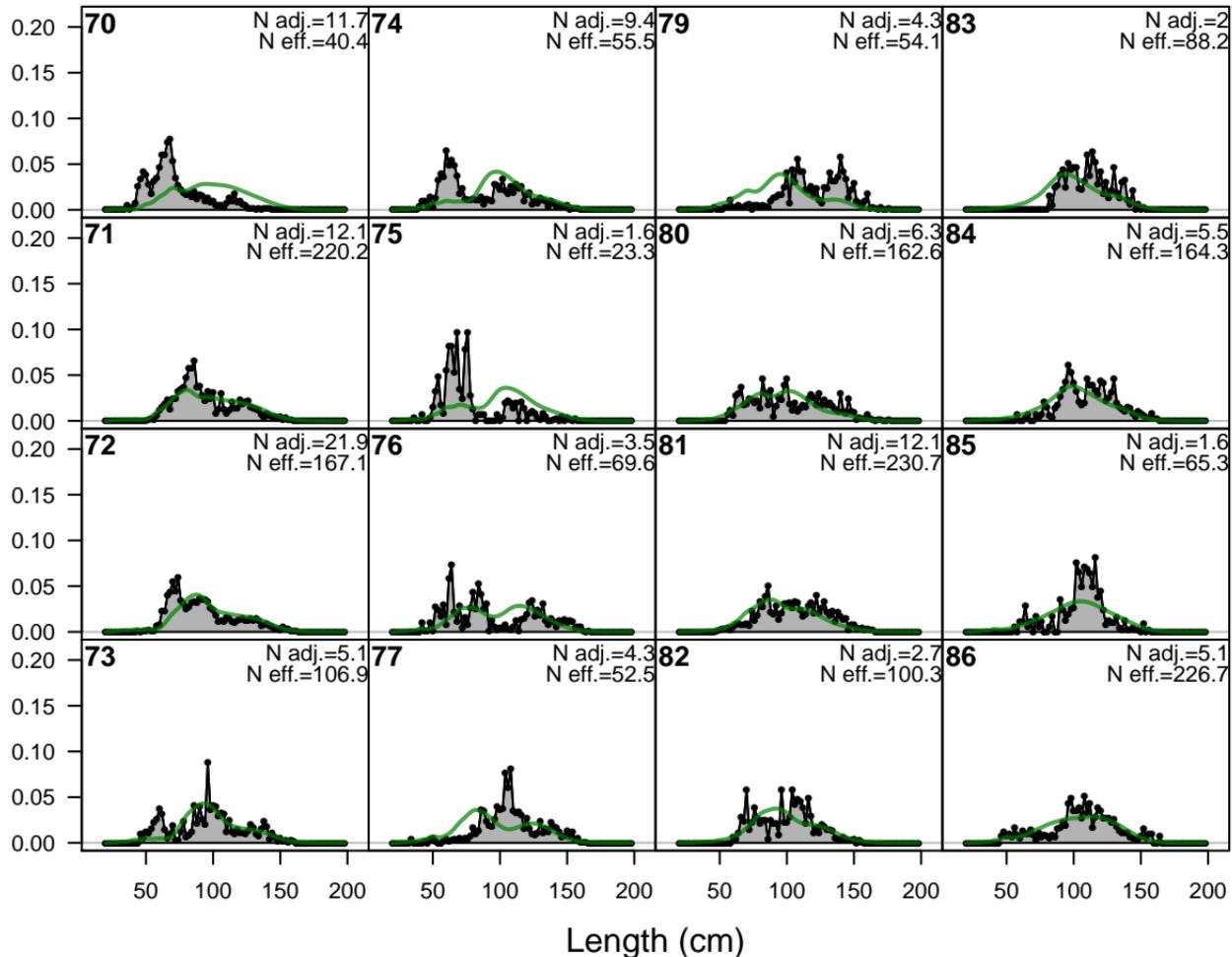
Proportion



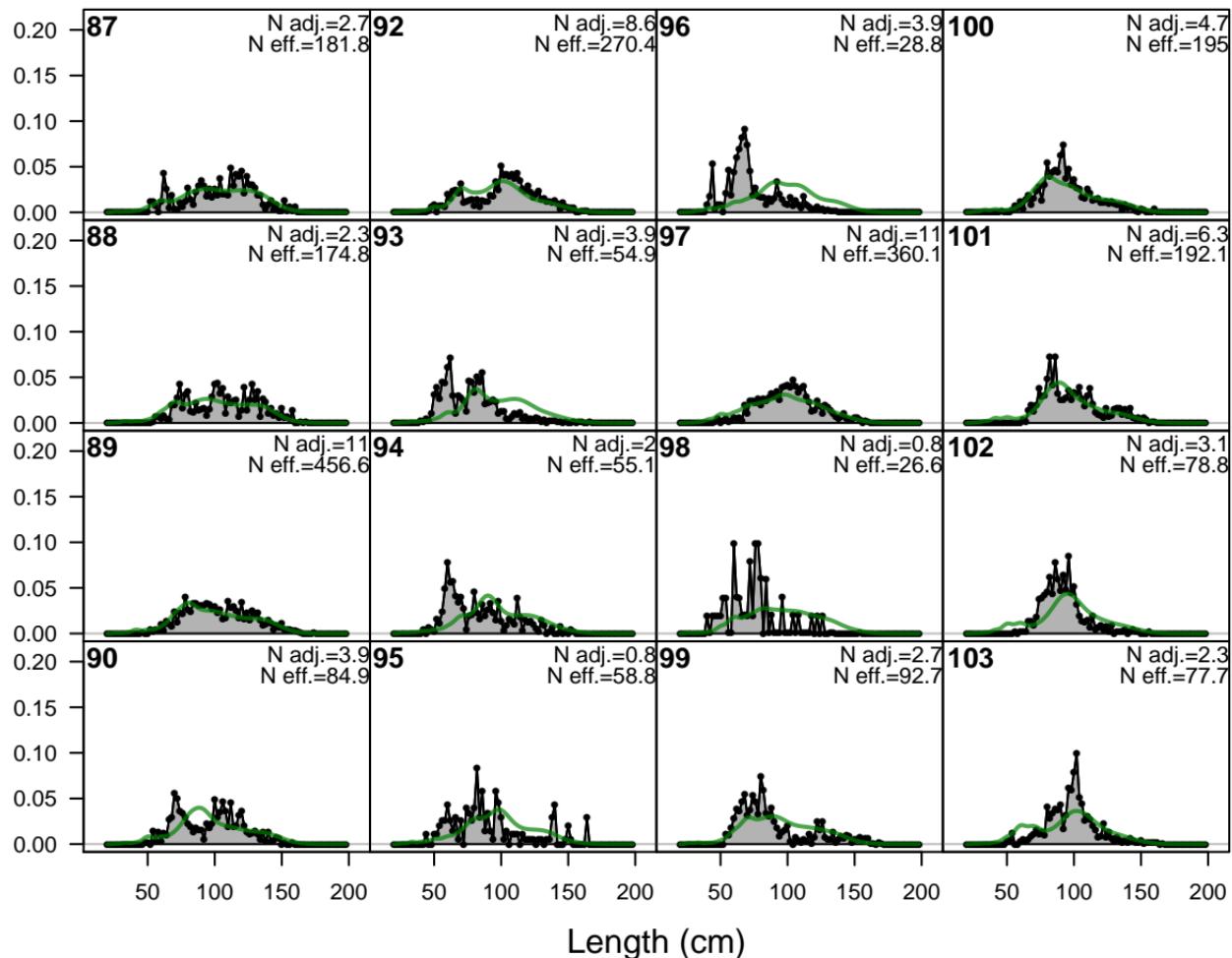
Proportion



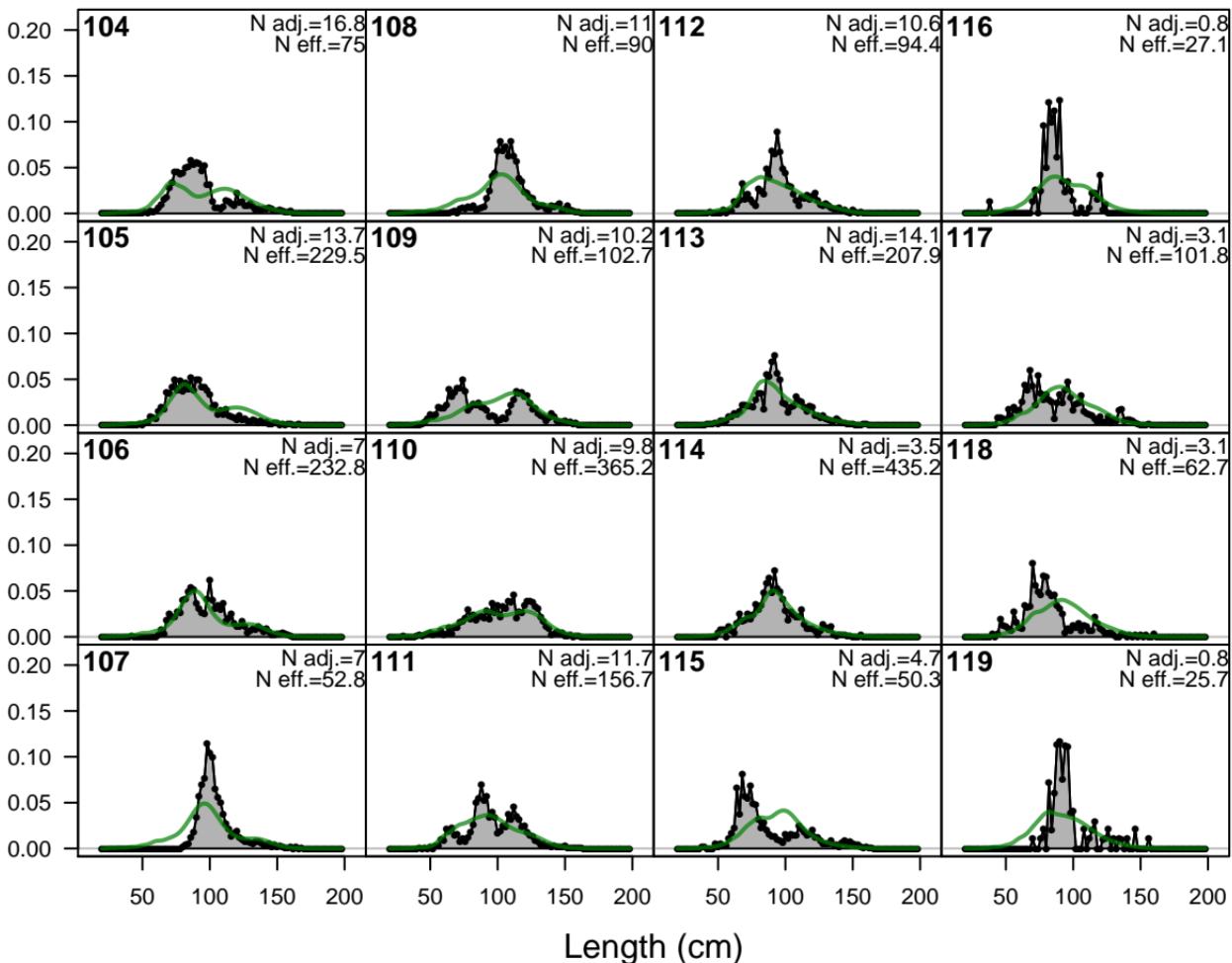
Proportion



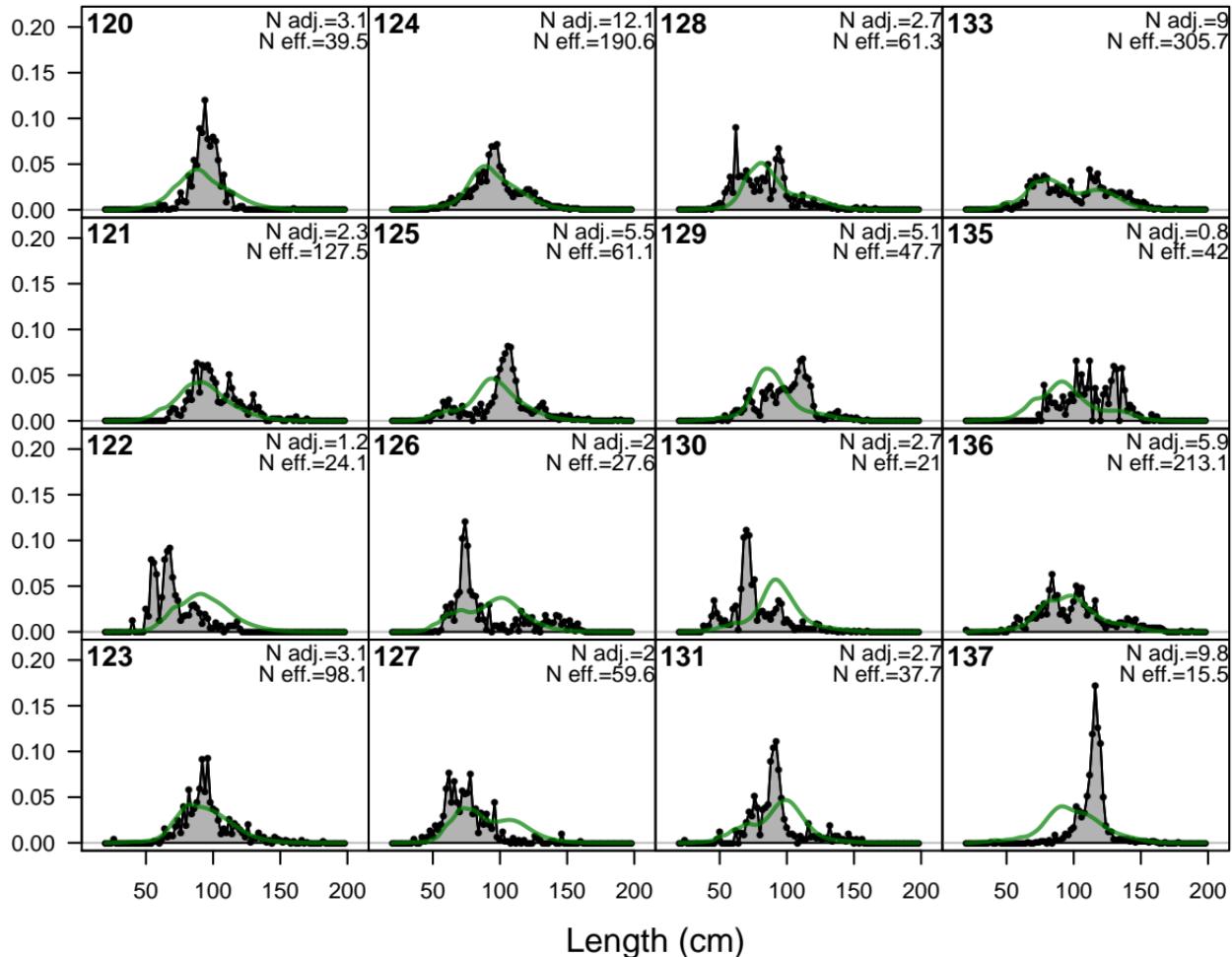
Proportion



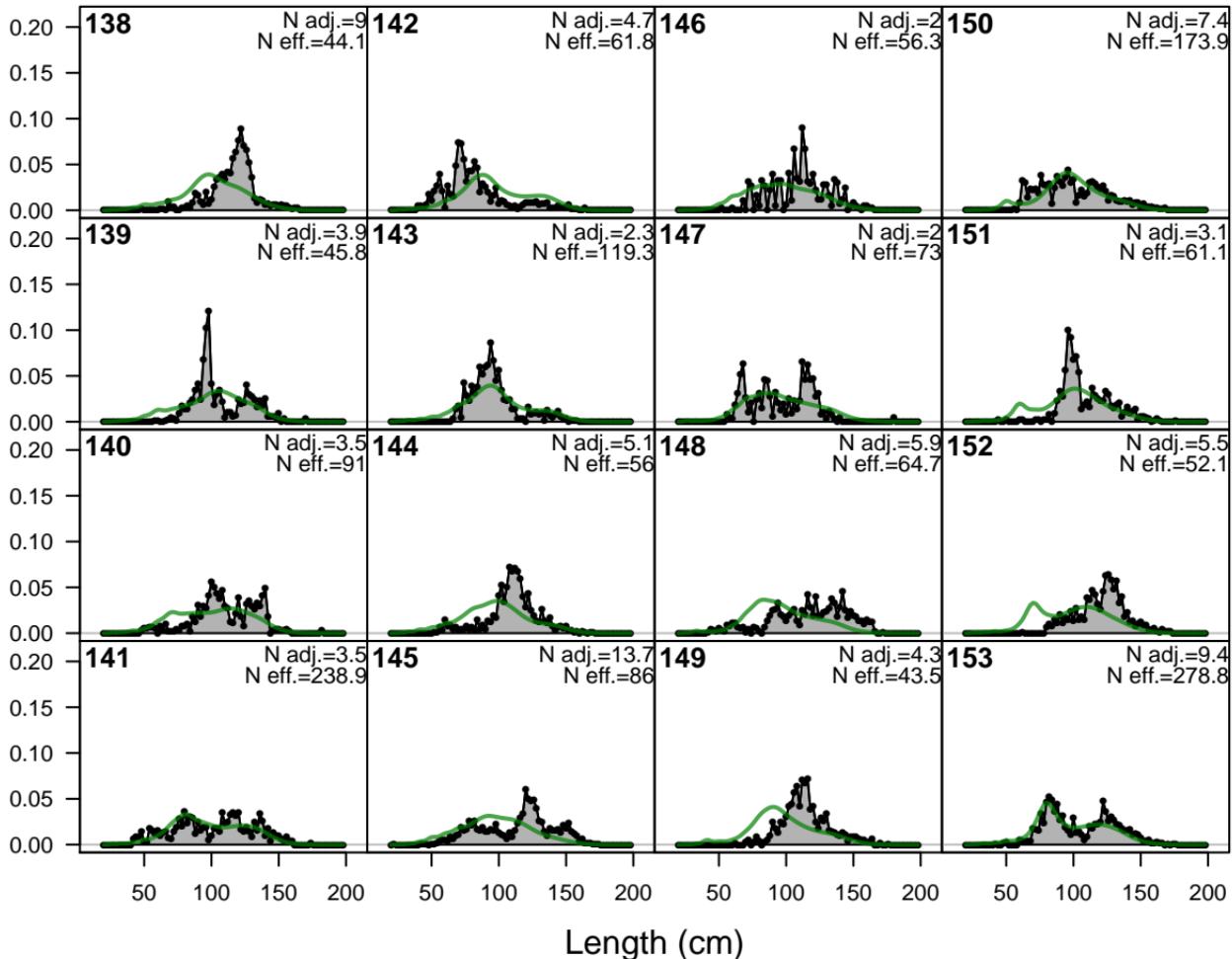
Proportion



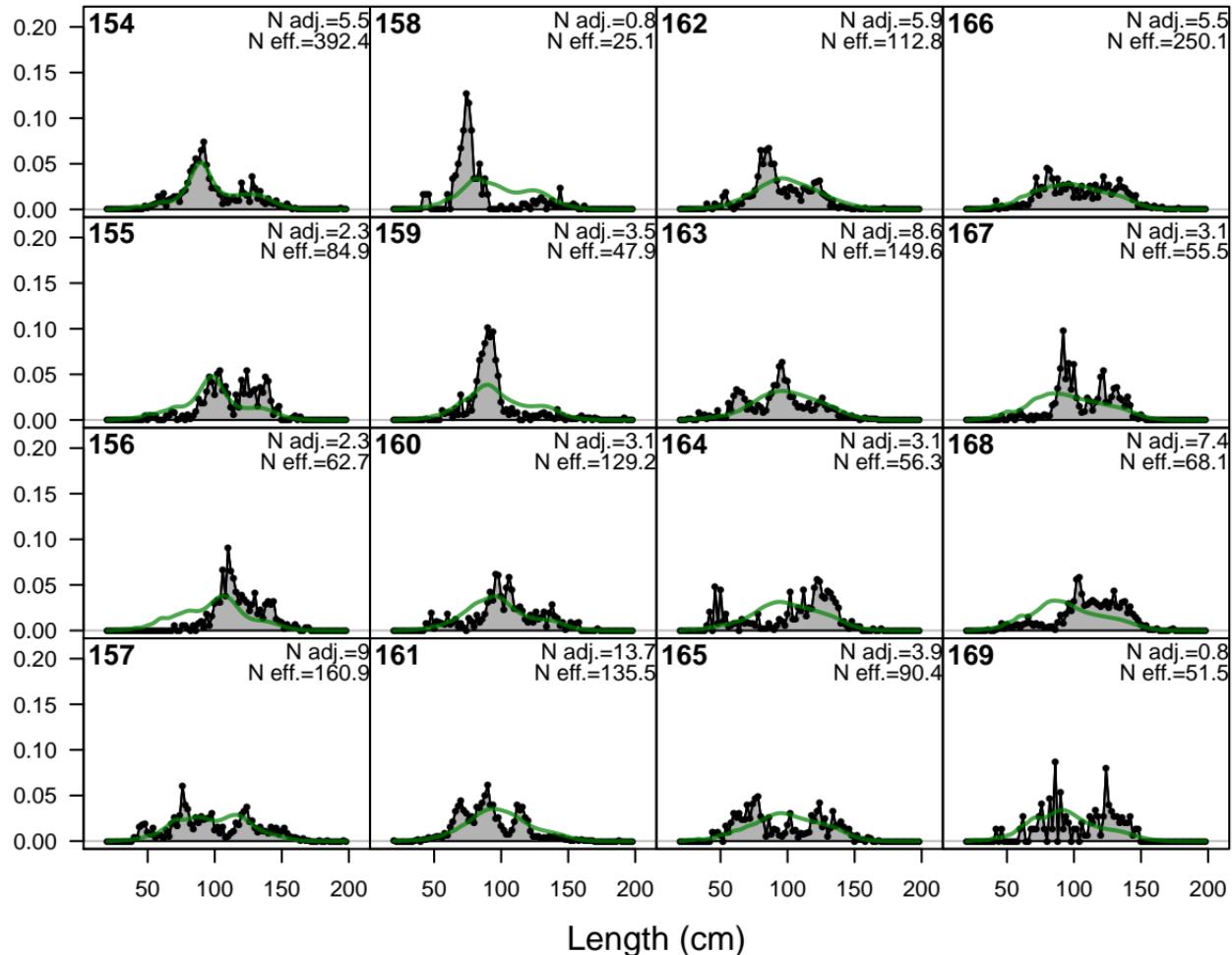
Proportion

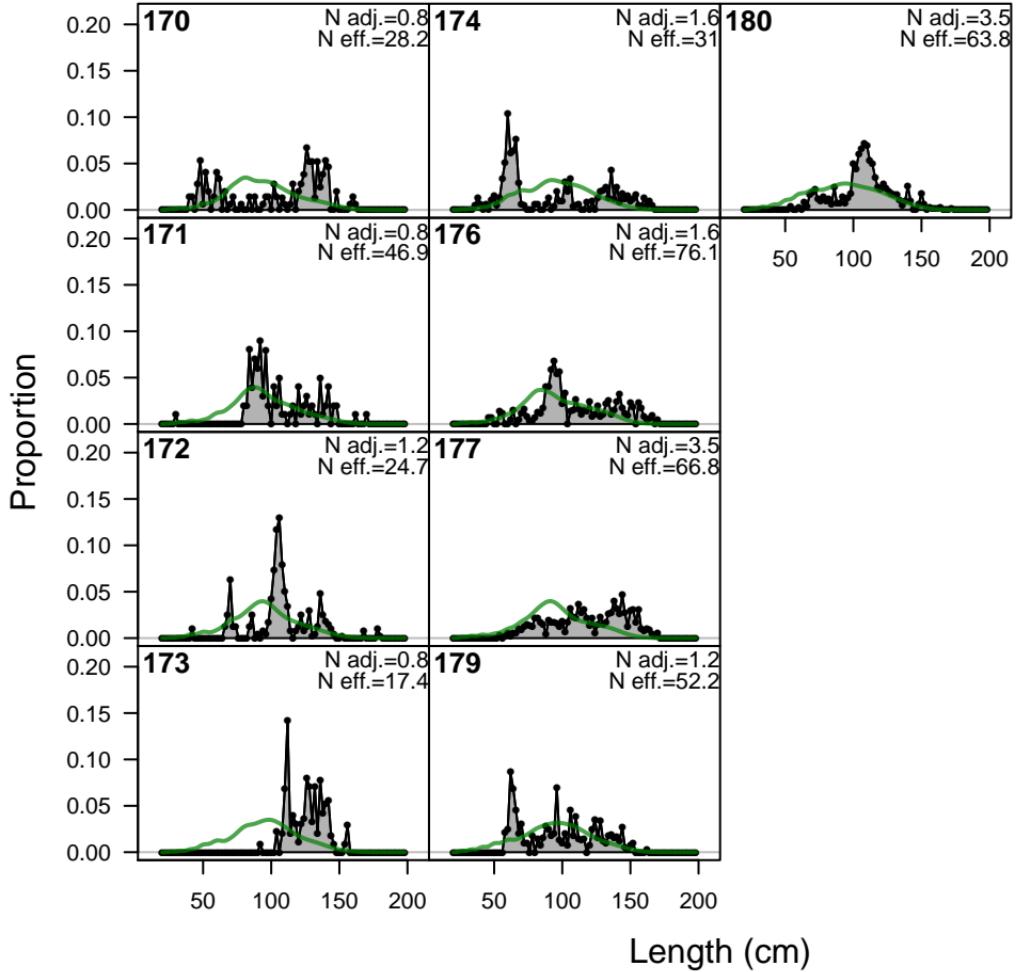


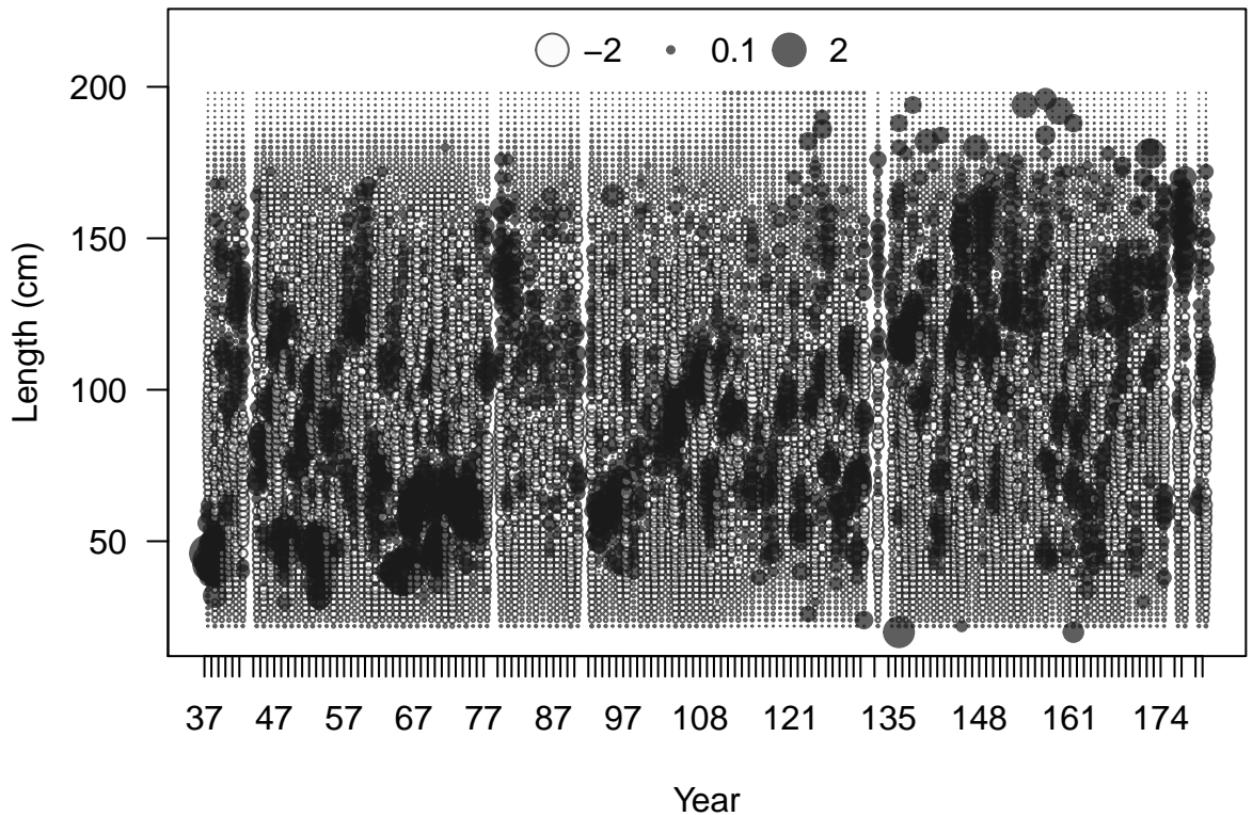
Proportion

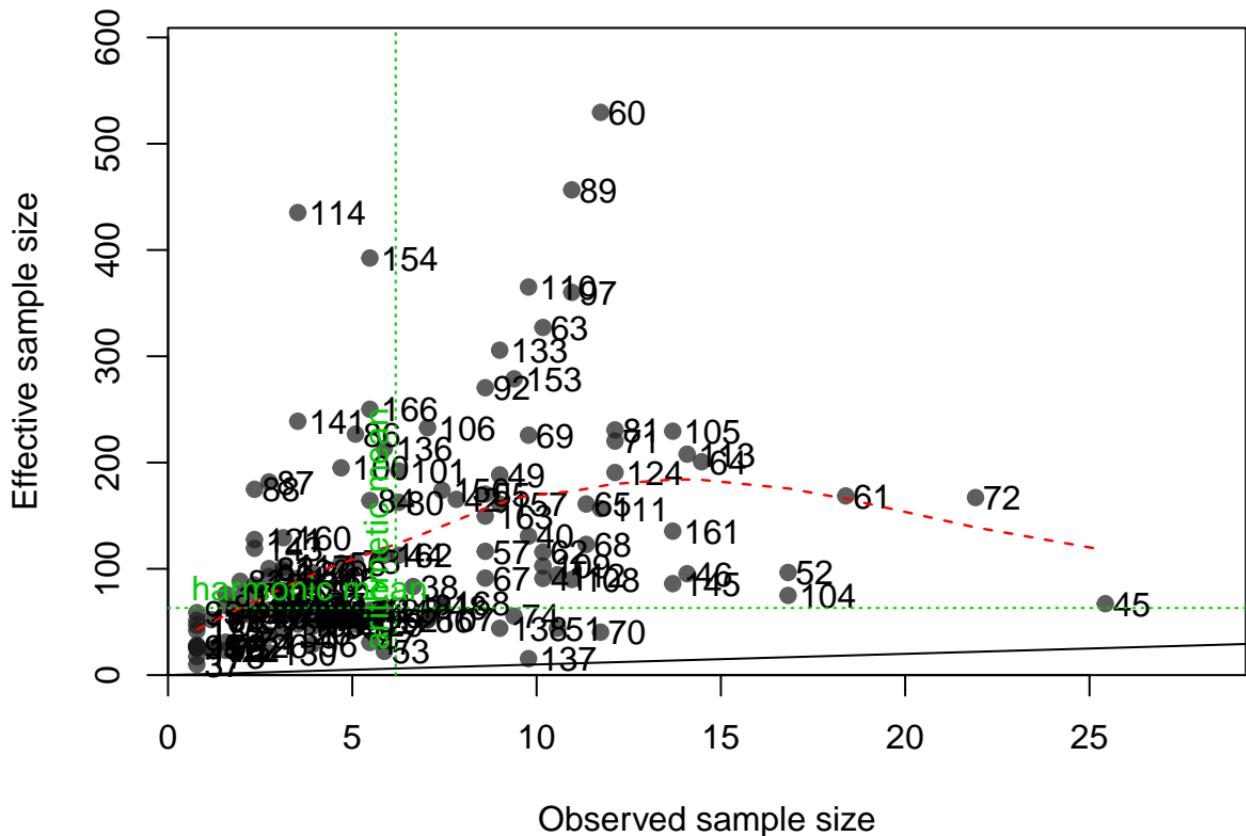


Proportion

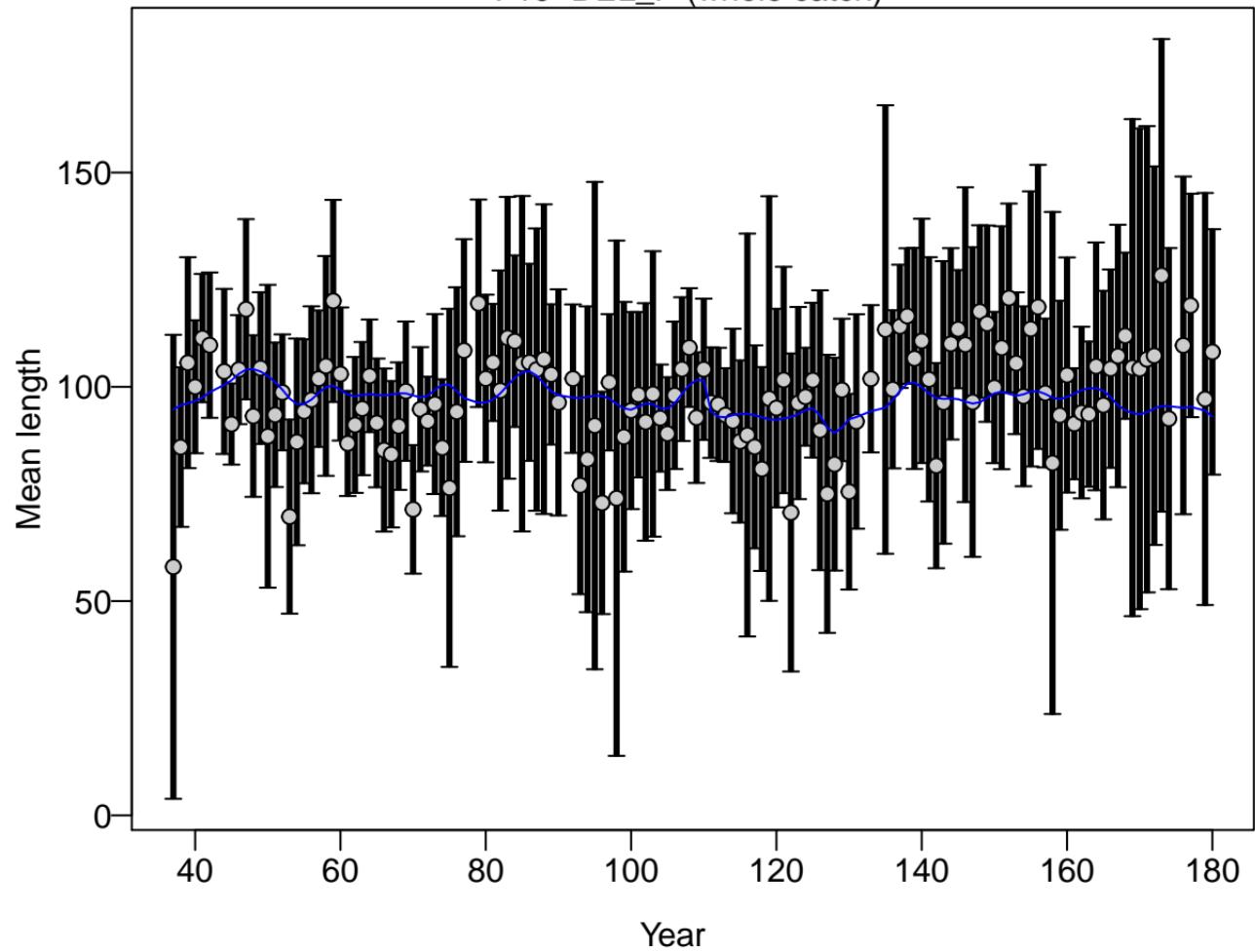




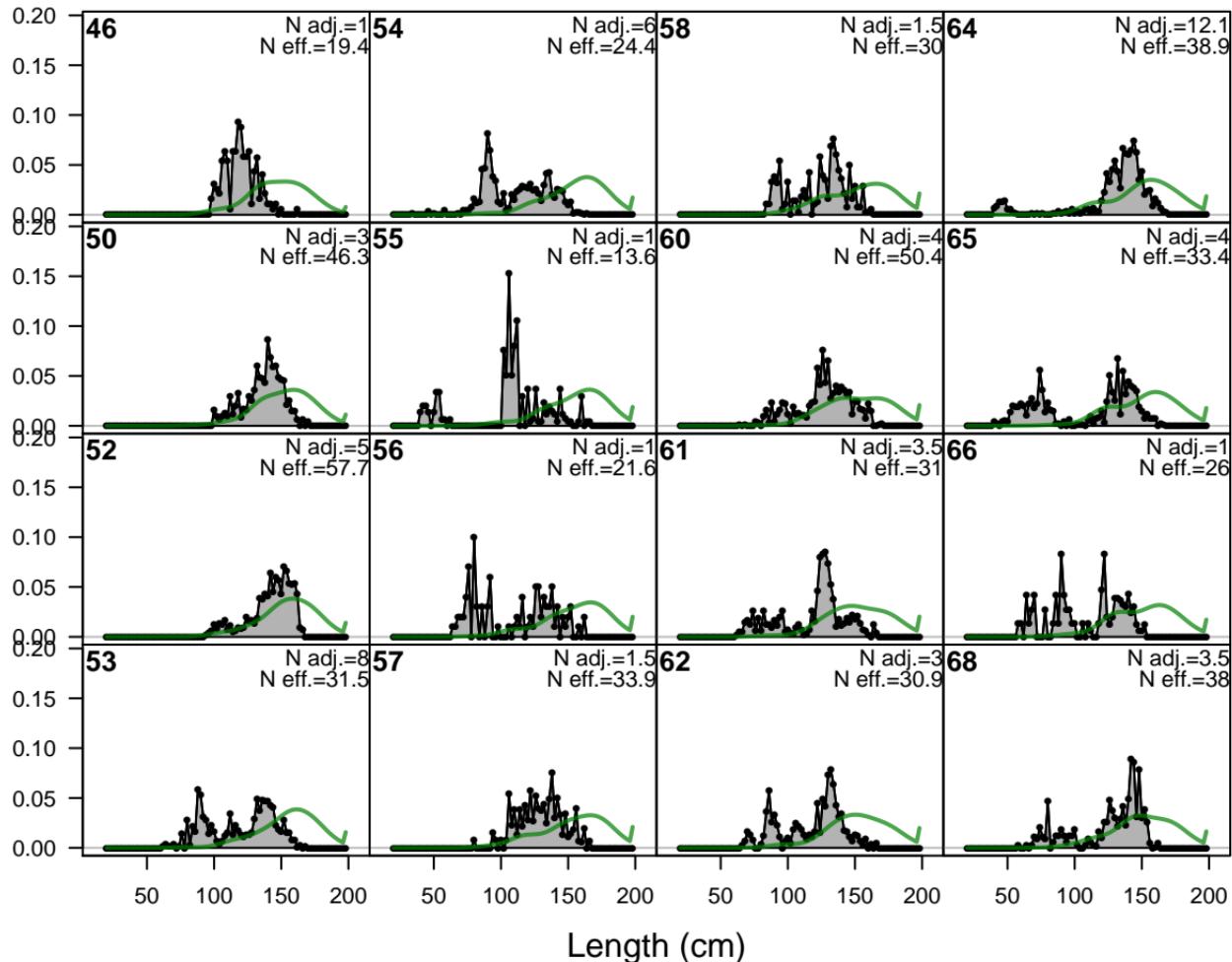




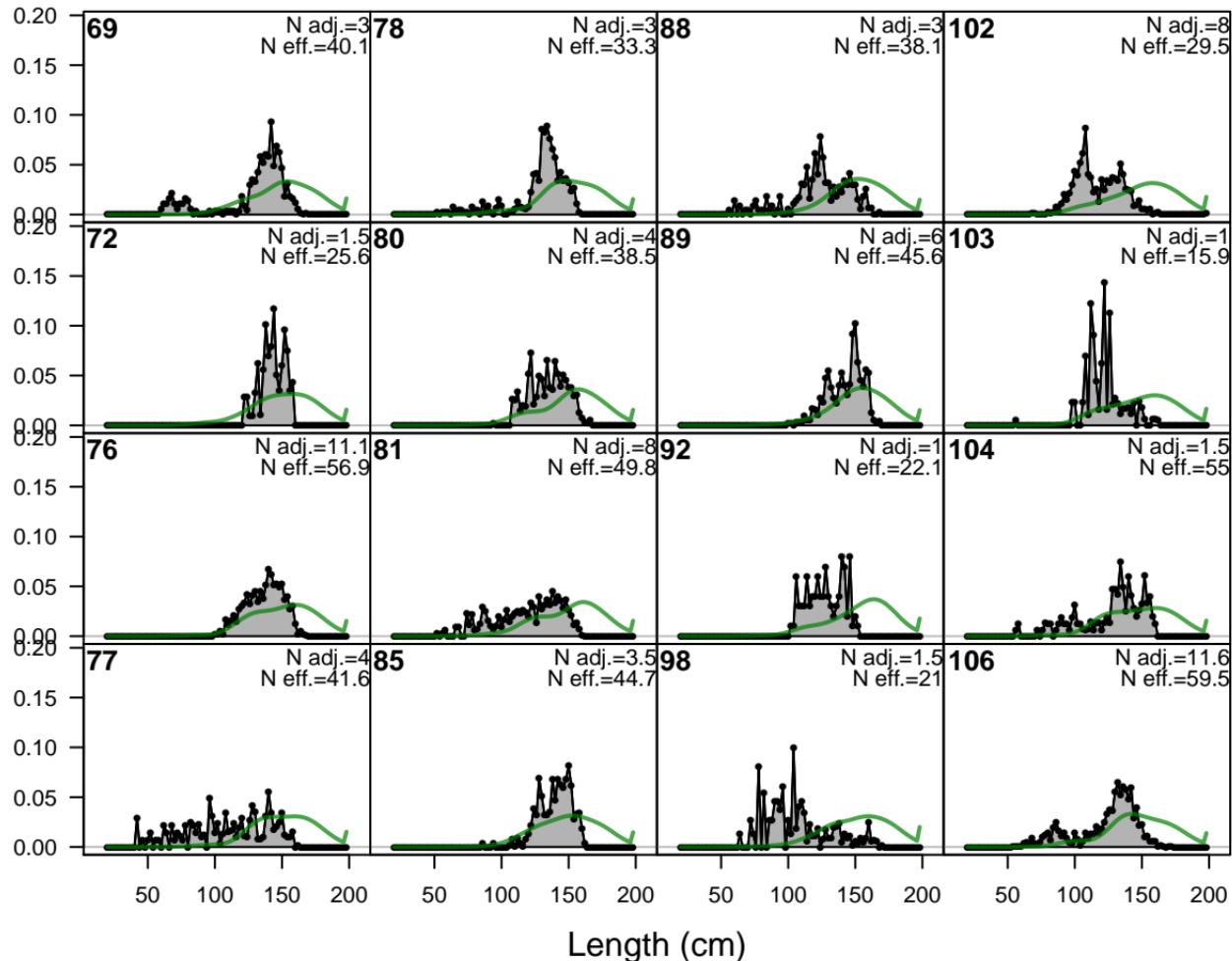
# F19-DEL\_P (whole catch)

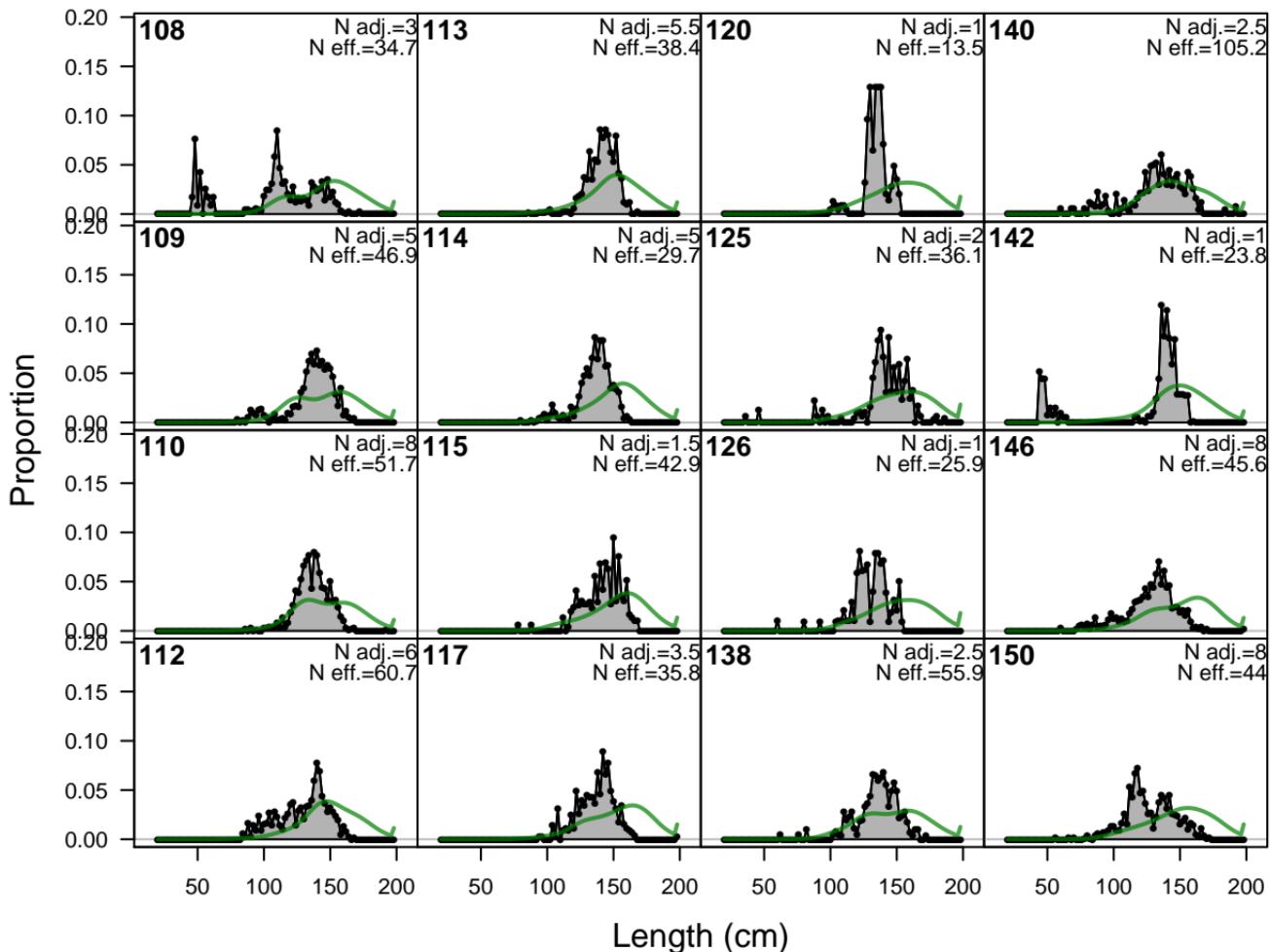


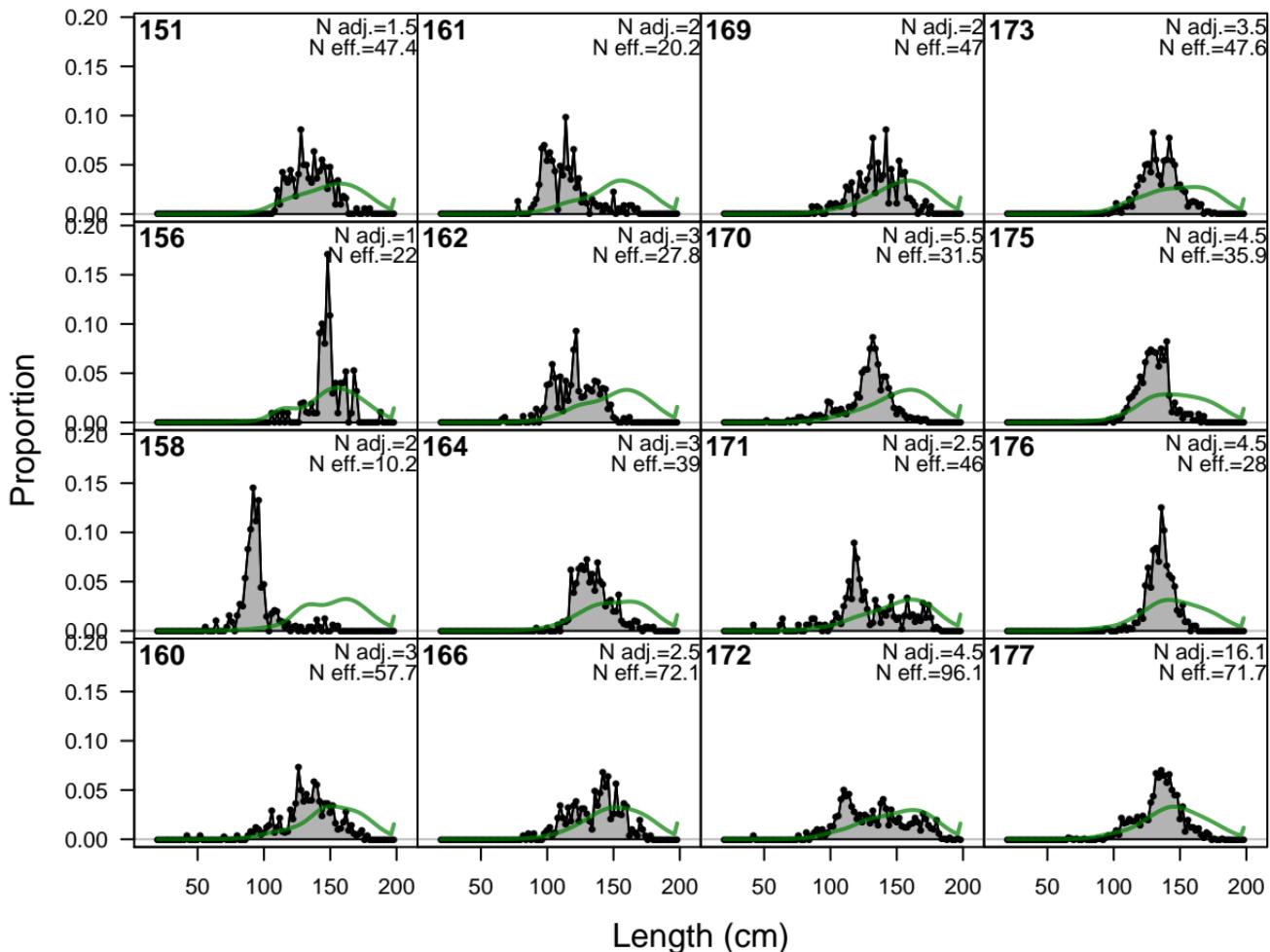
Proportion

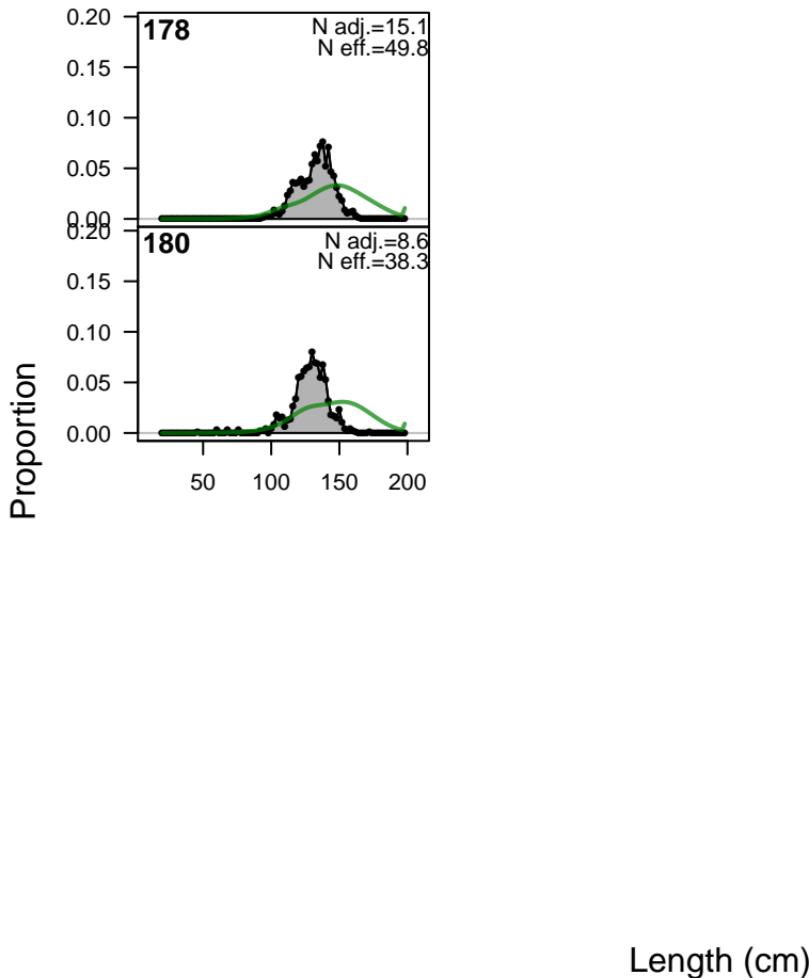


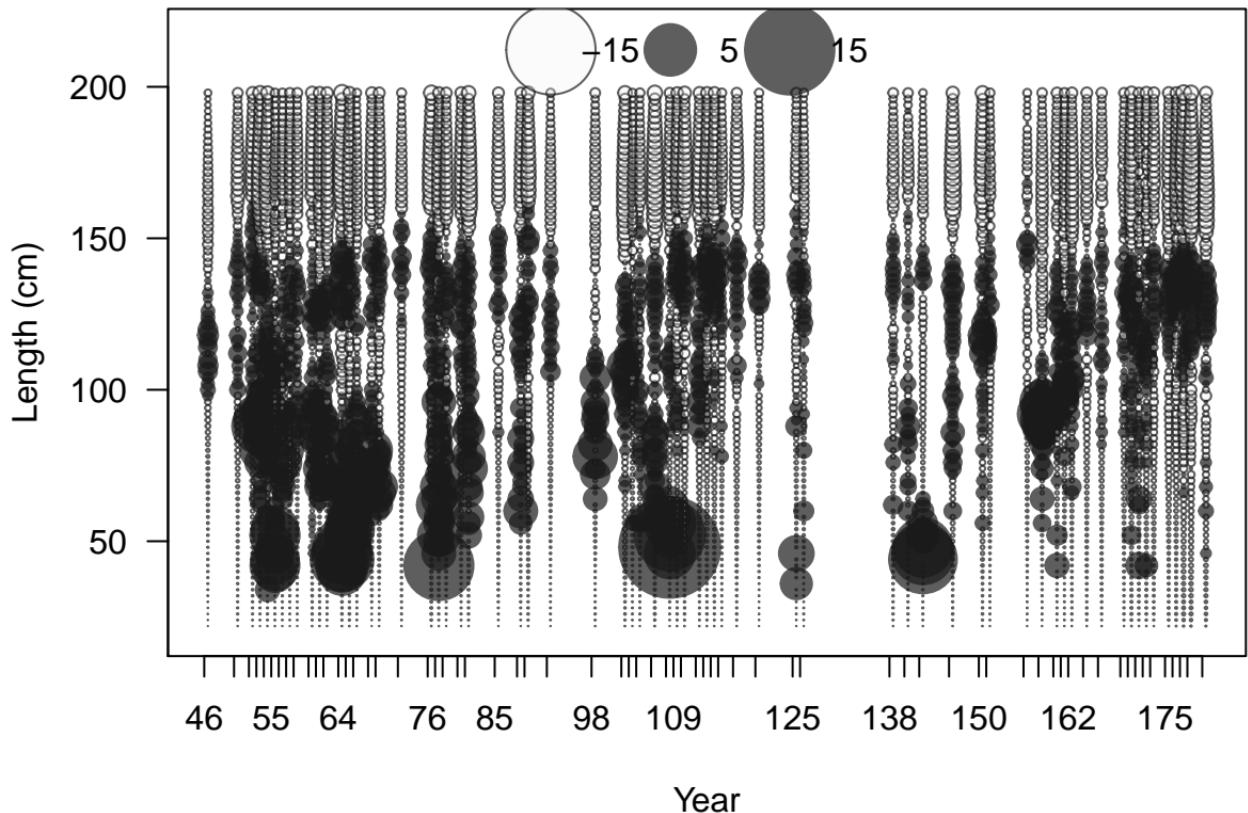
Proportion

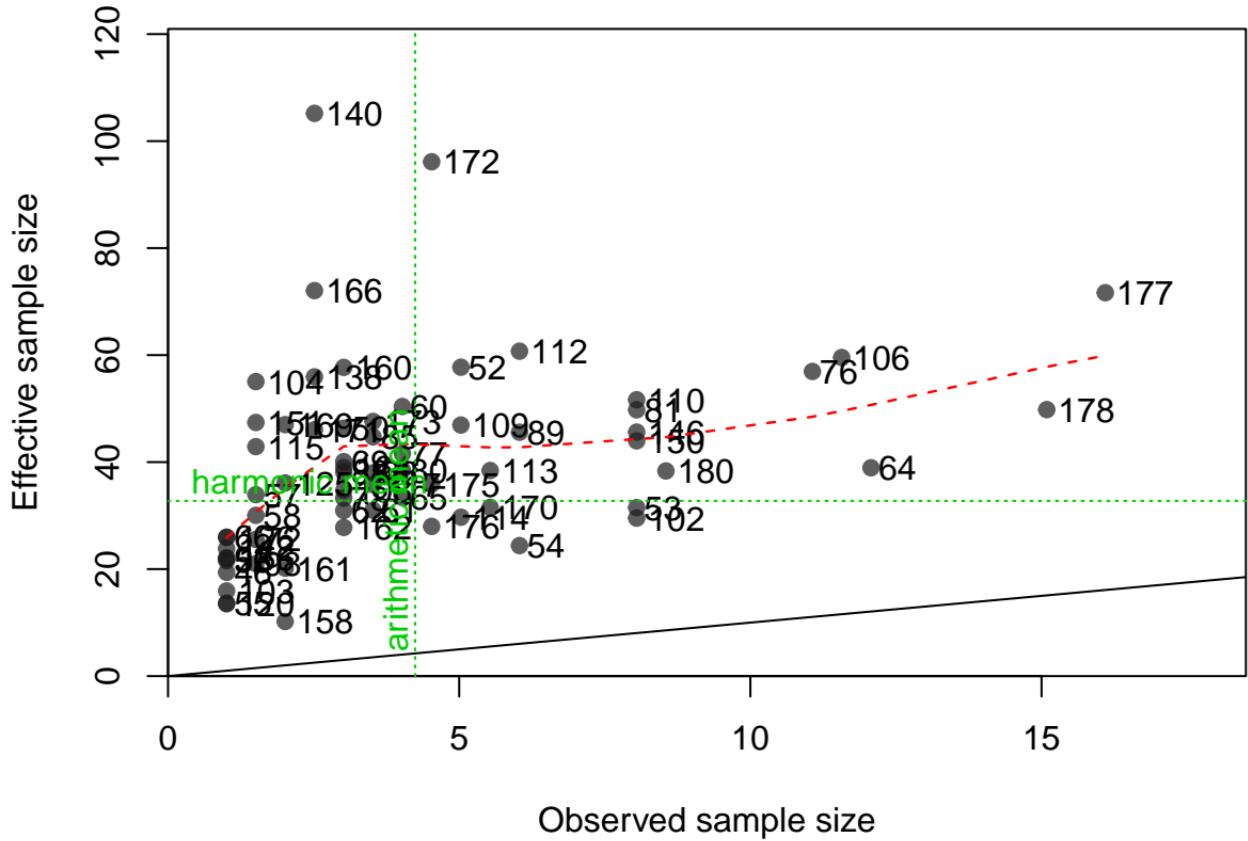




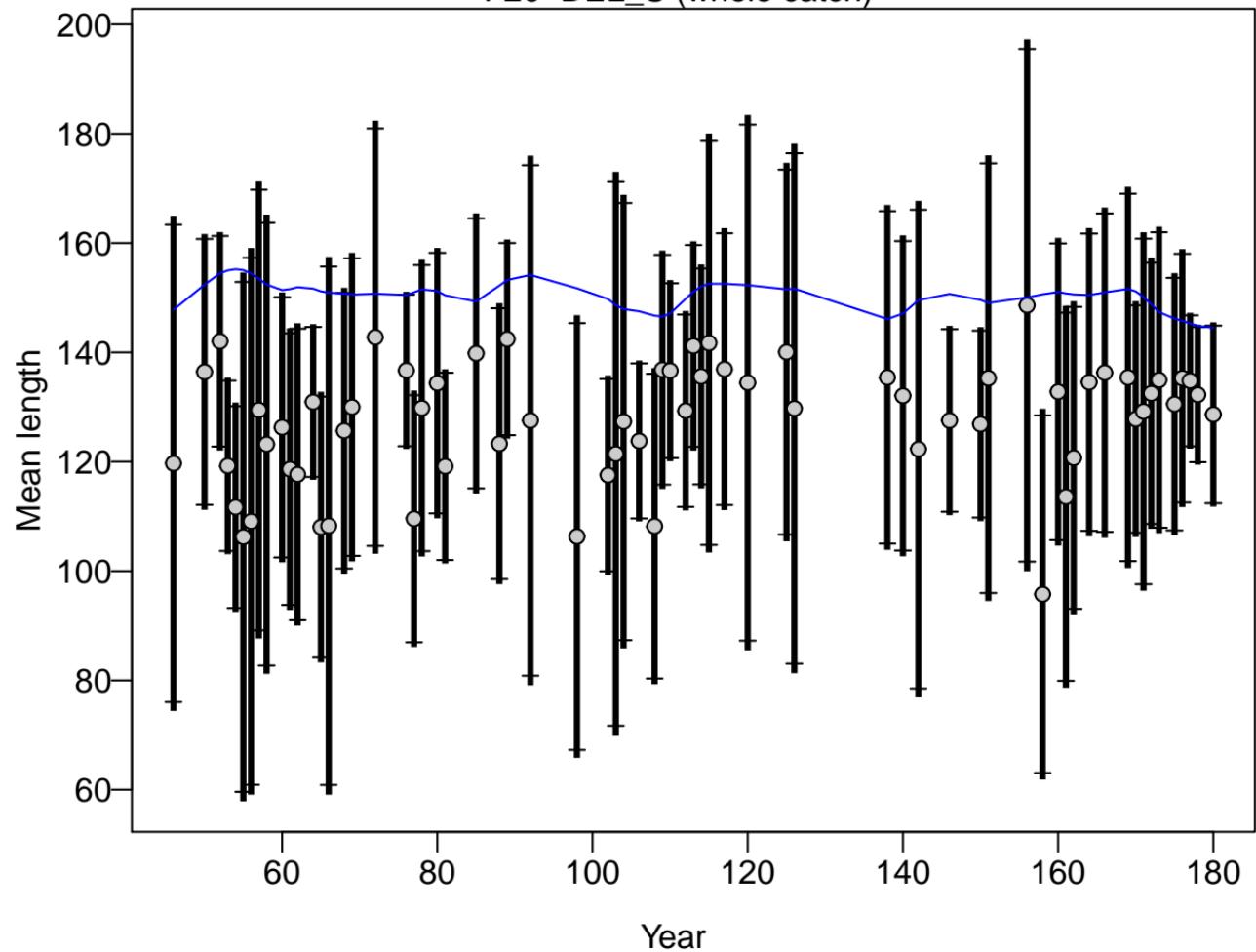




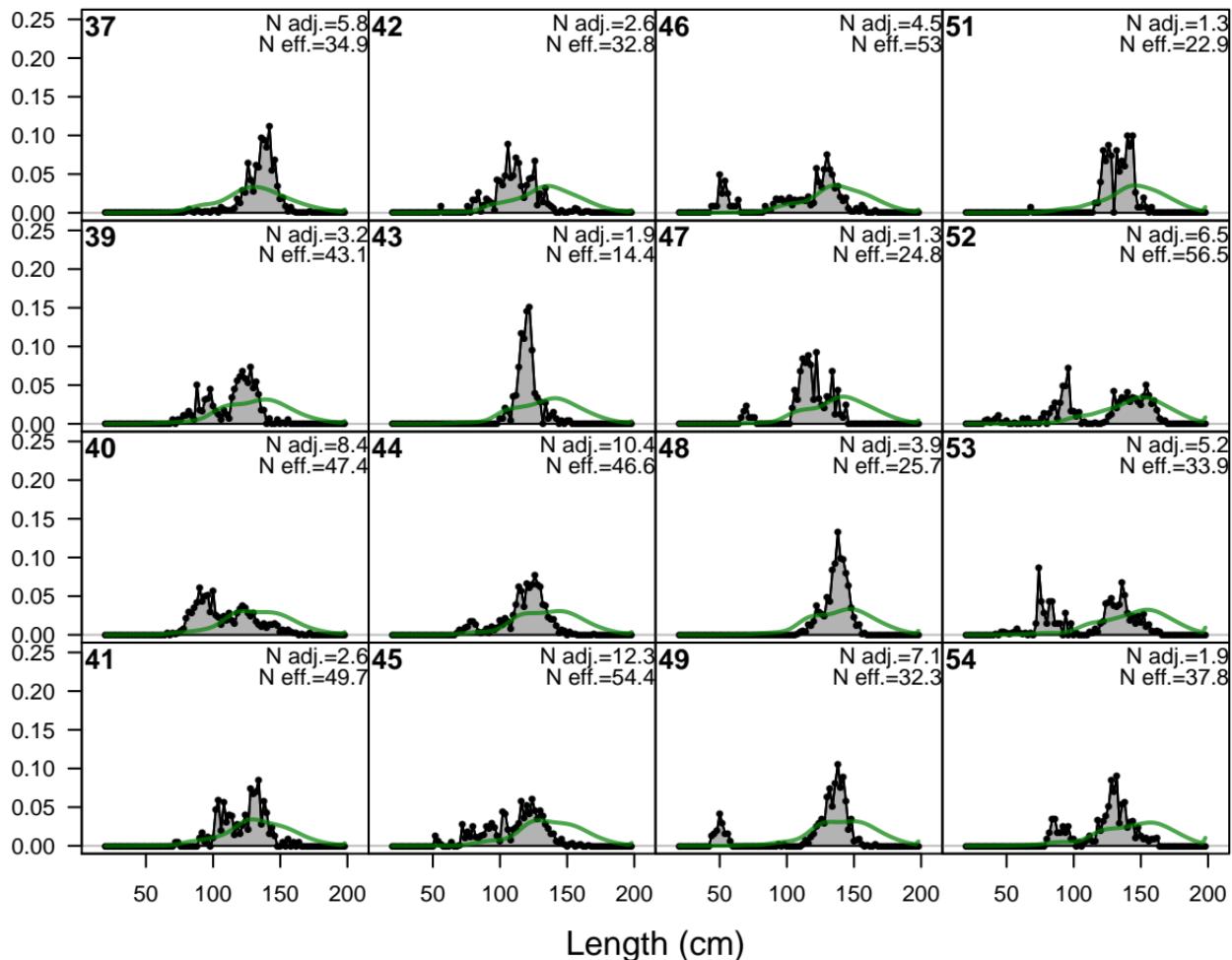




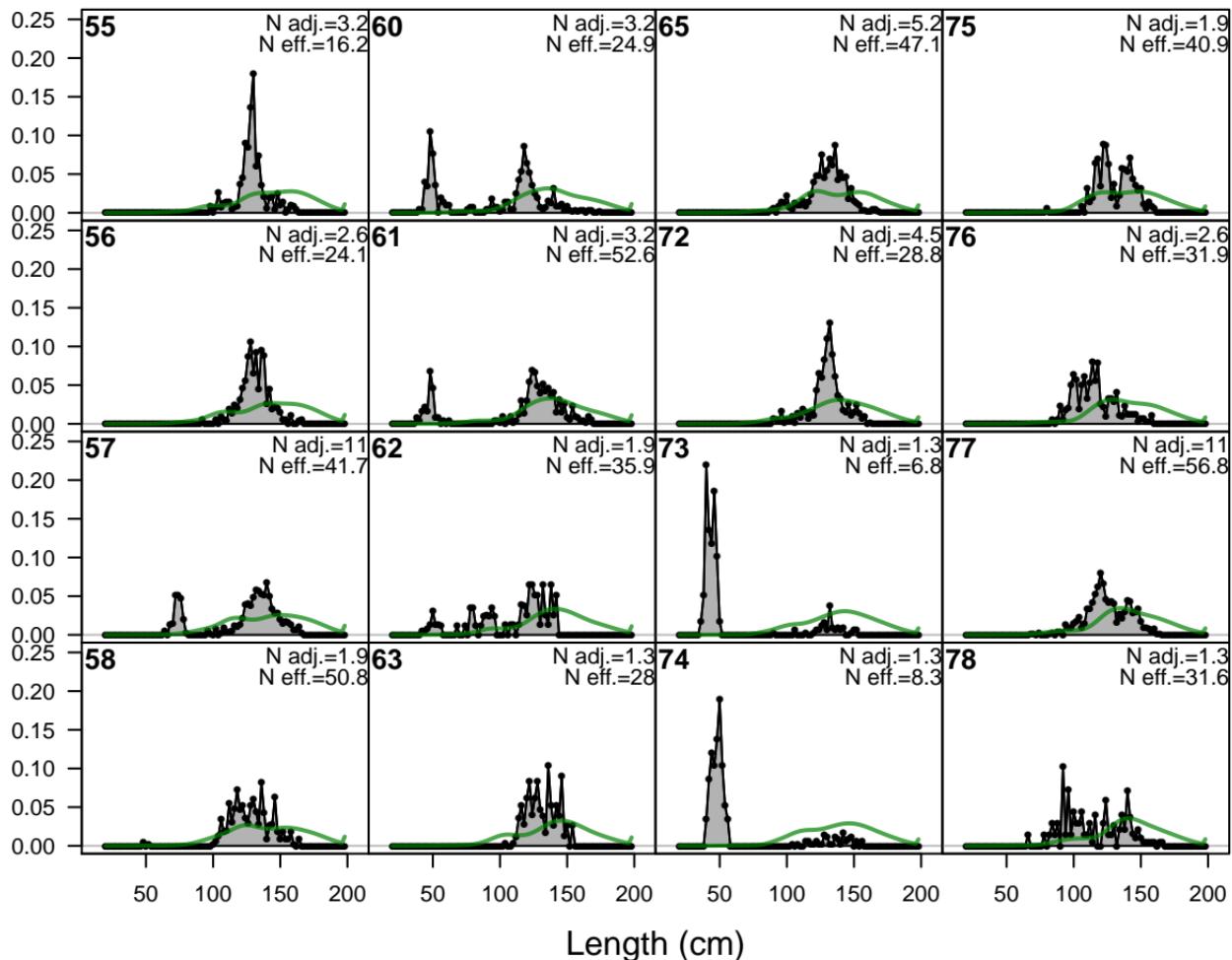
# F20-DEL\_S (whole catch)



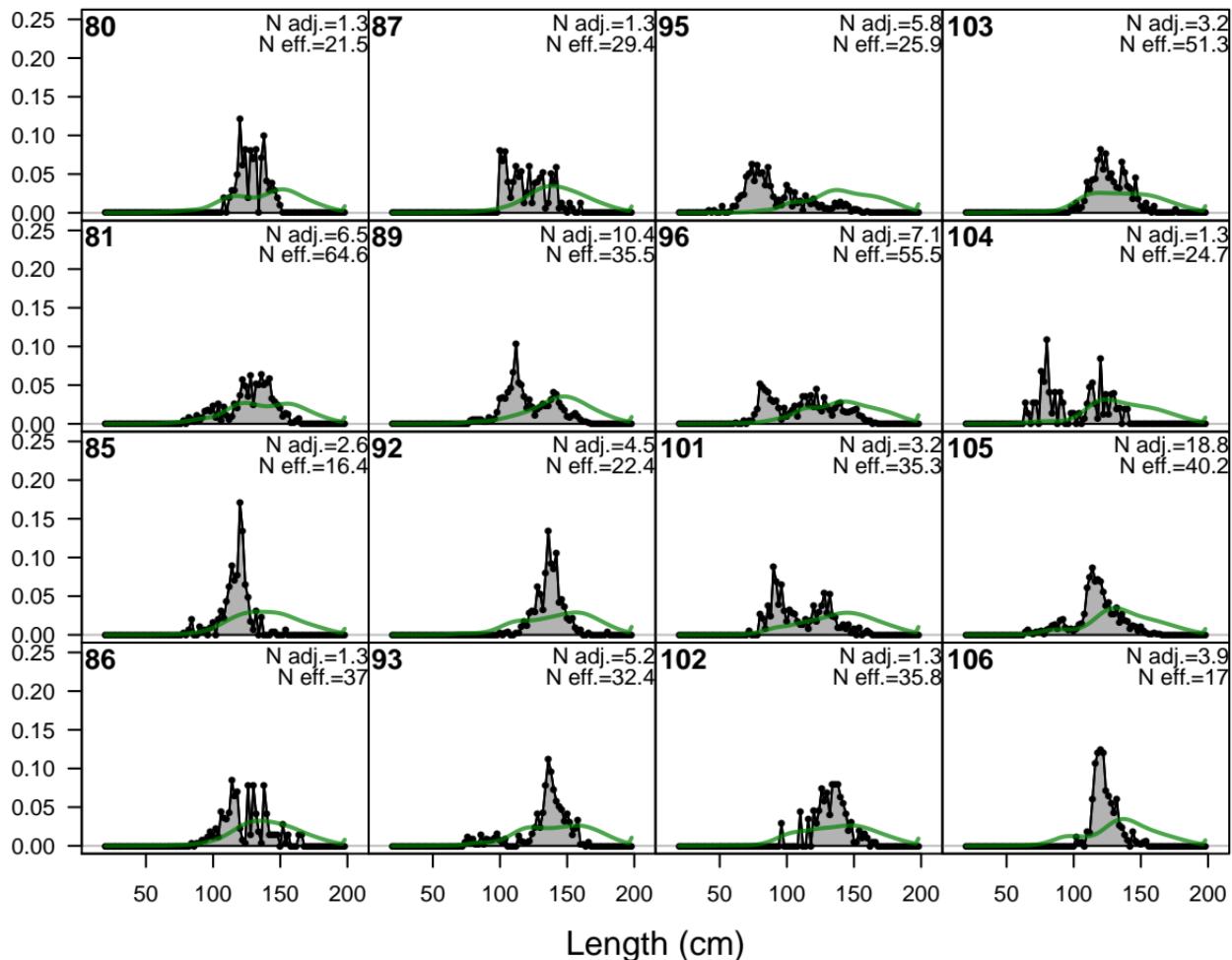
Proportion



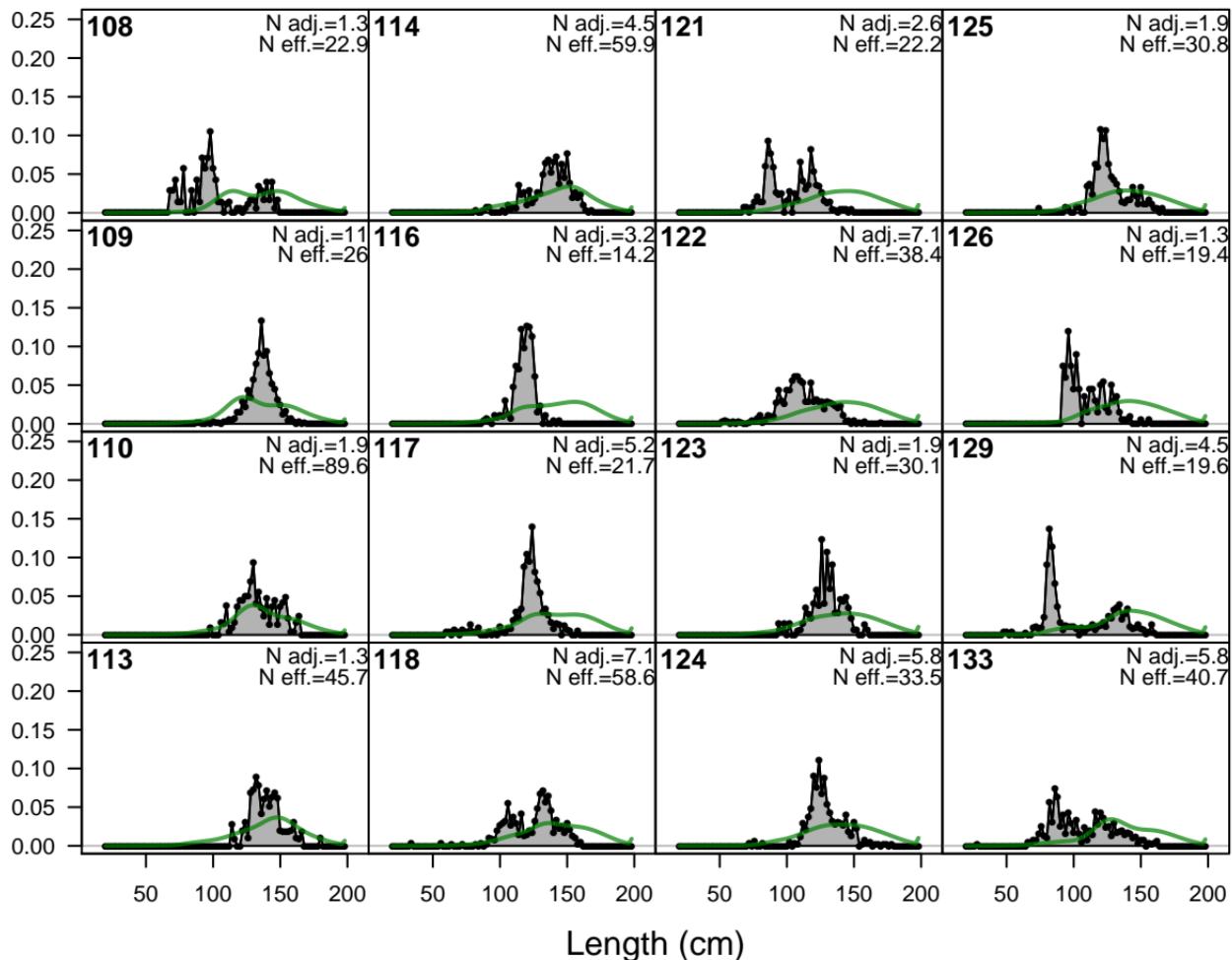
Proportion



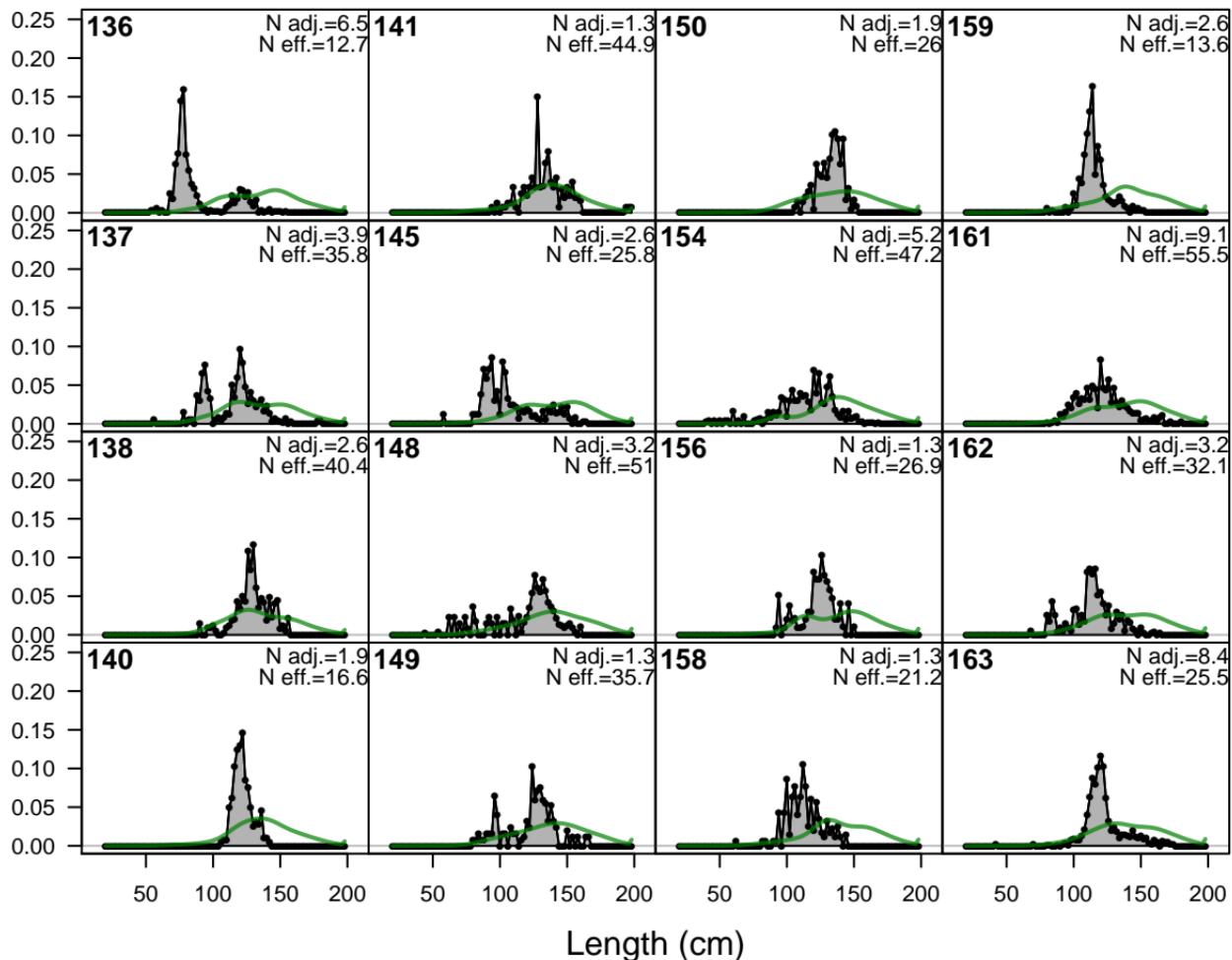
Proportion



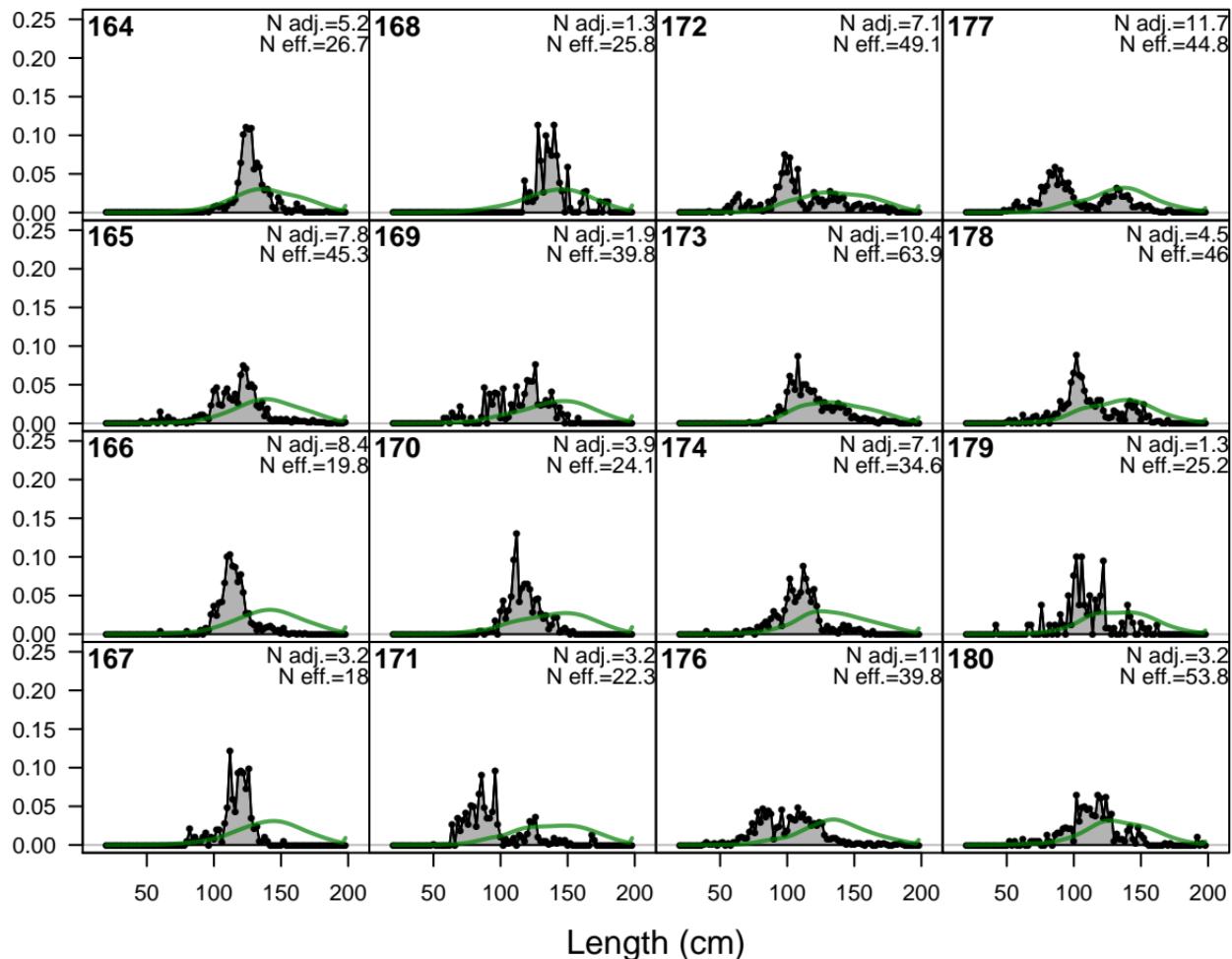
Proportion

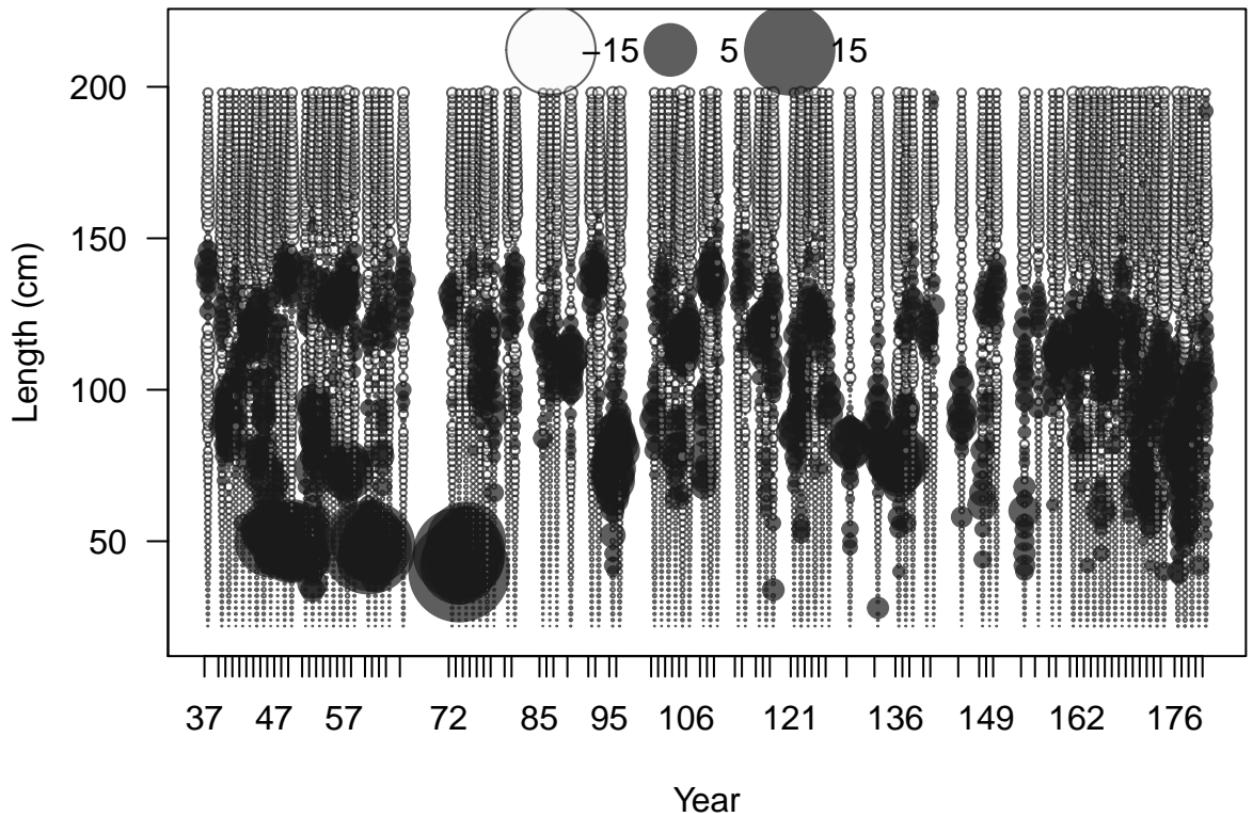


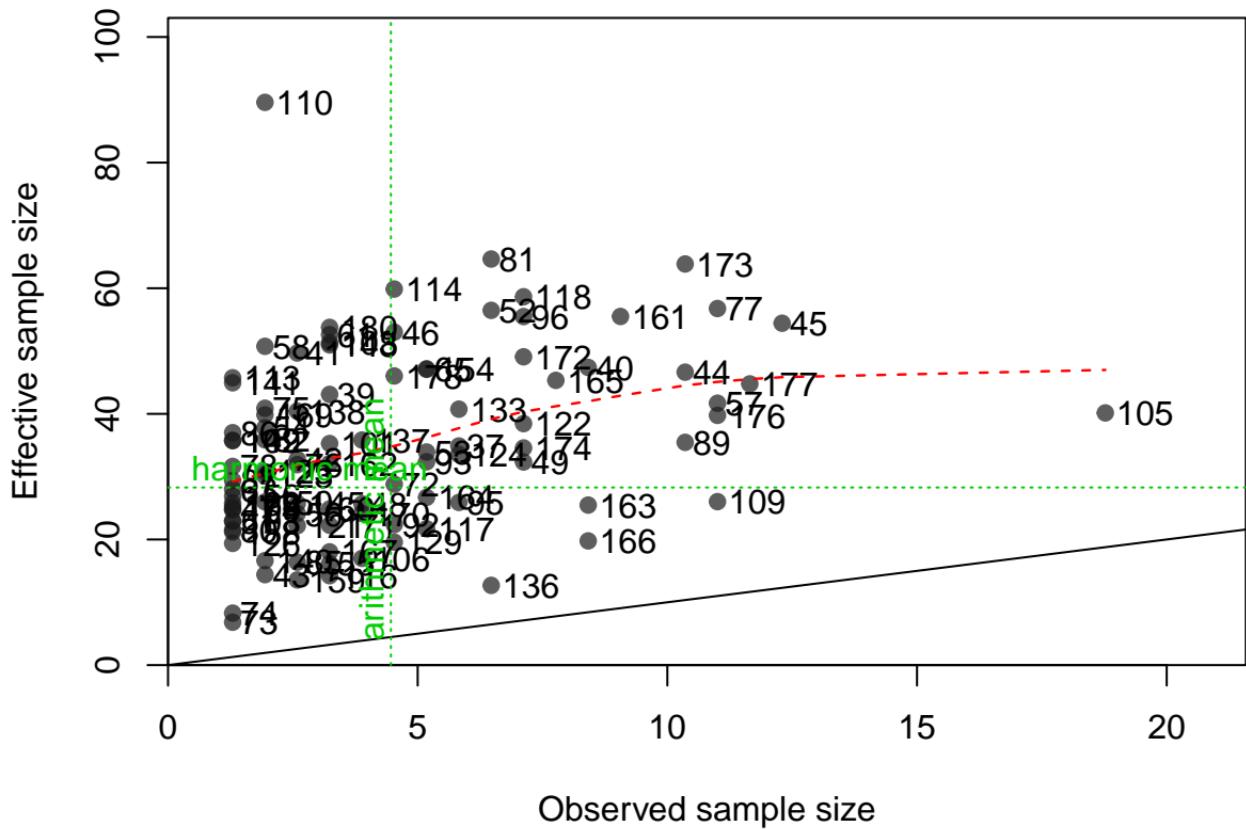
Proportion



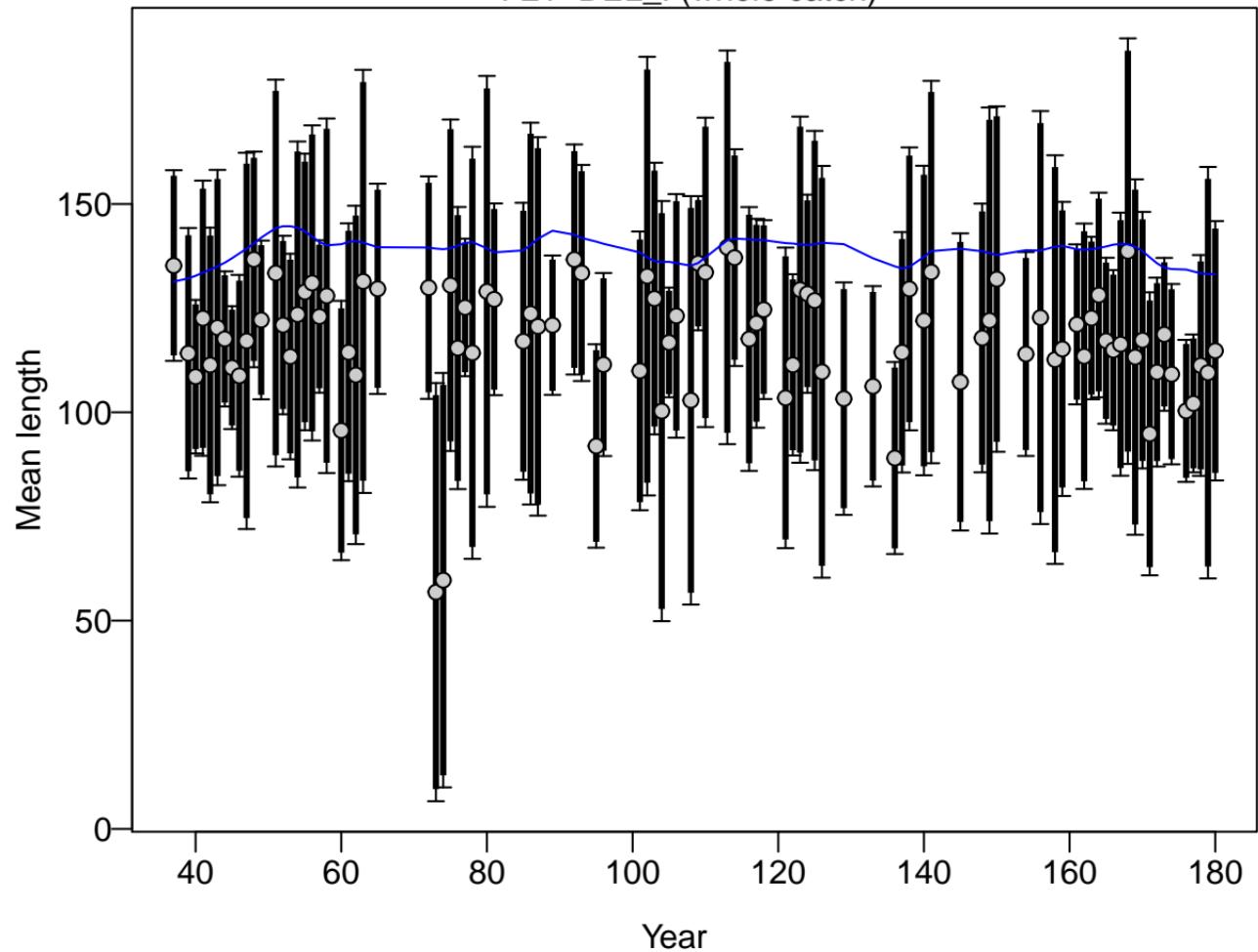
Proportion



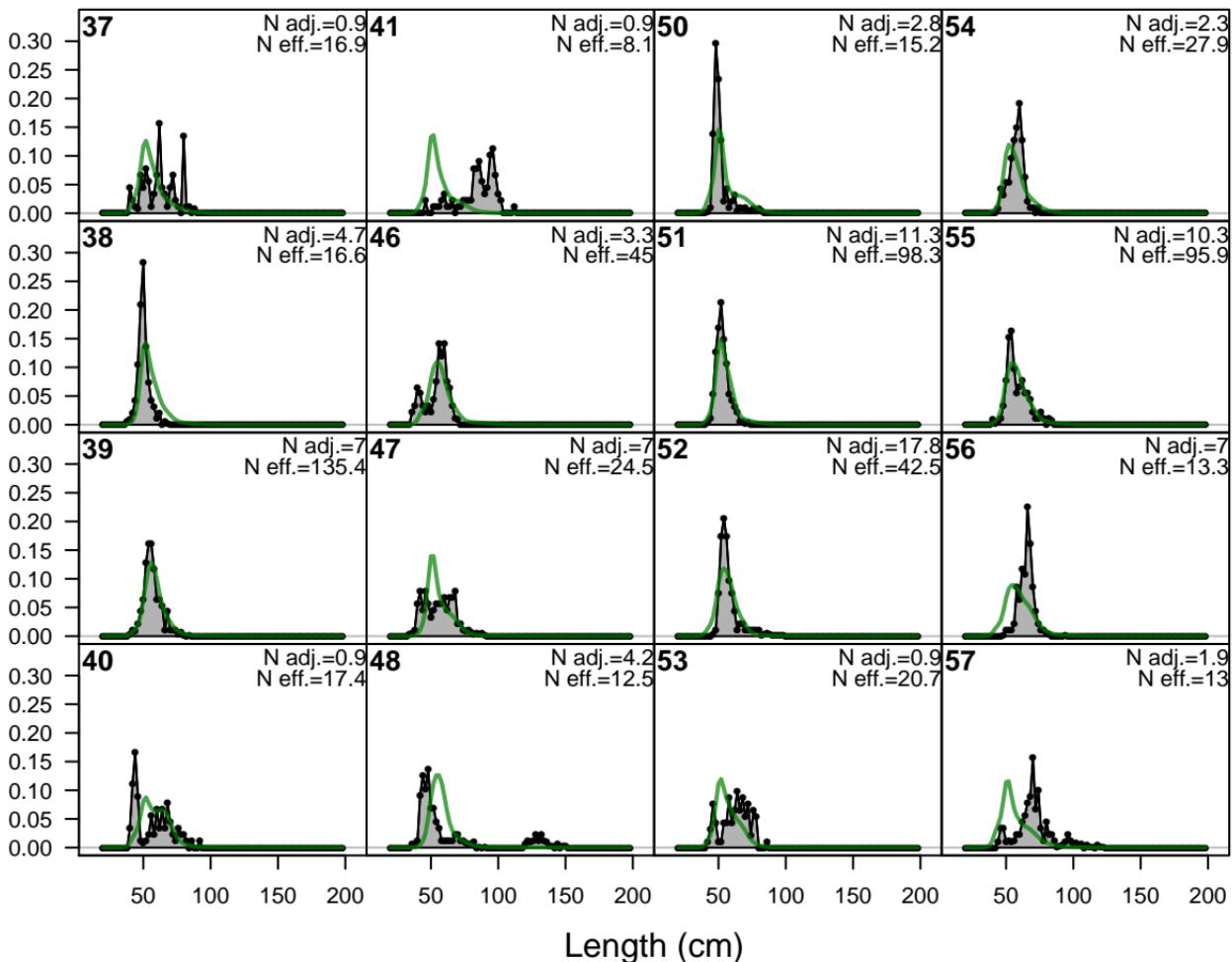




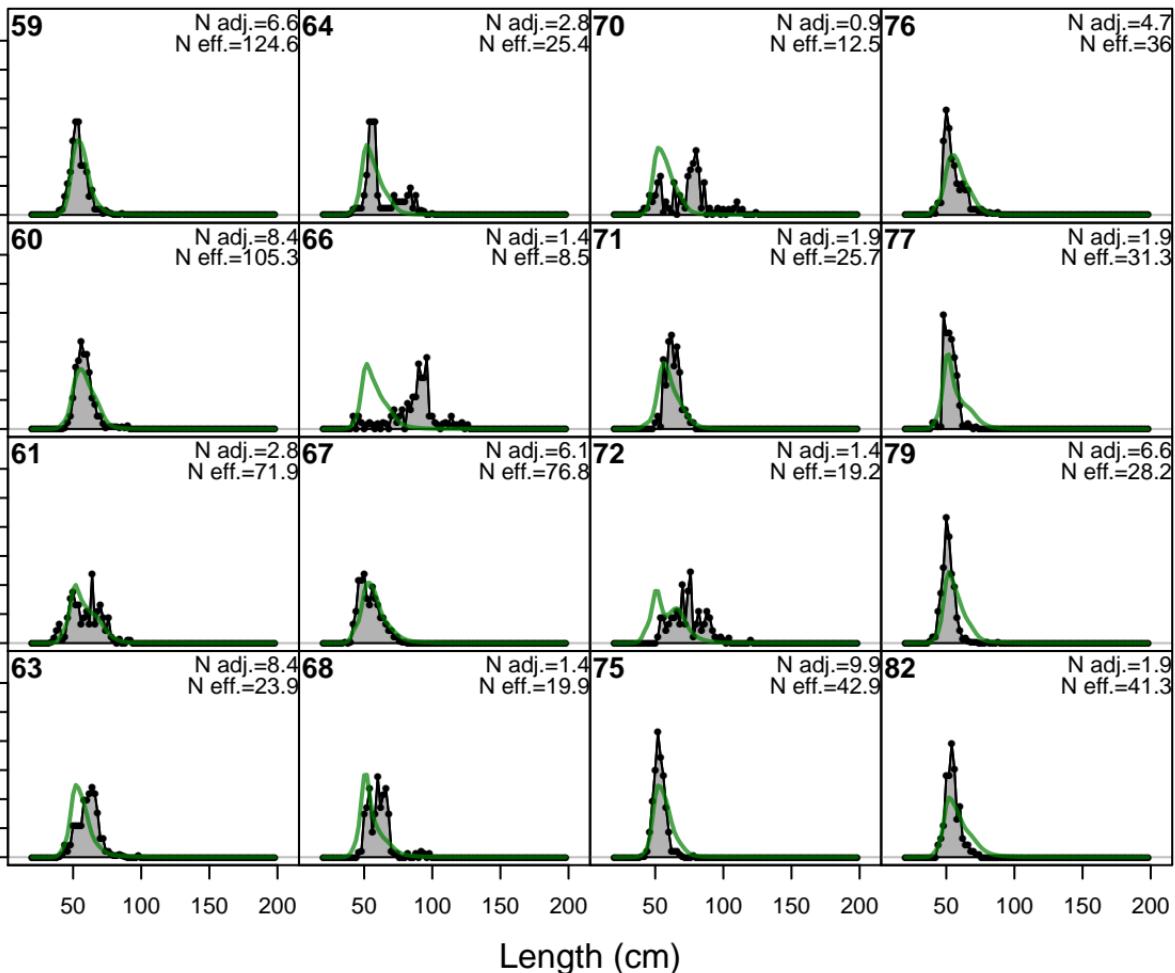
# F21-DEL\_I (whole catch)



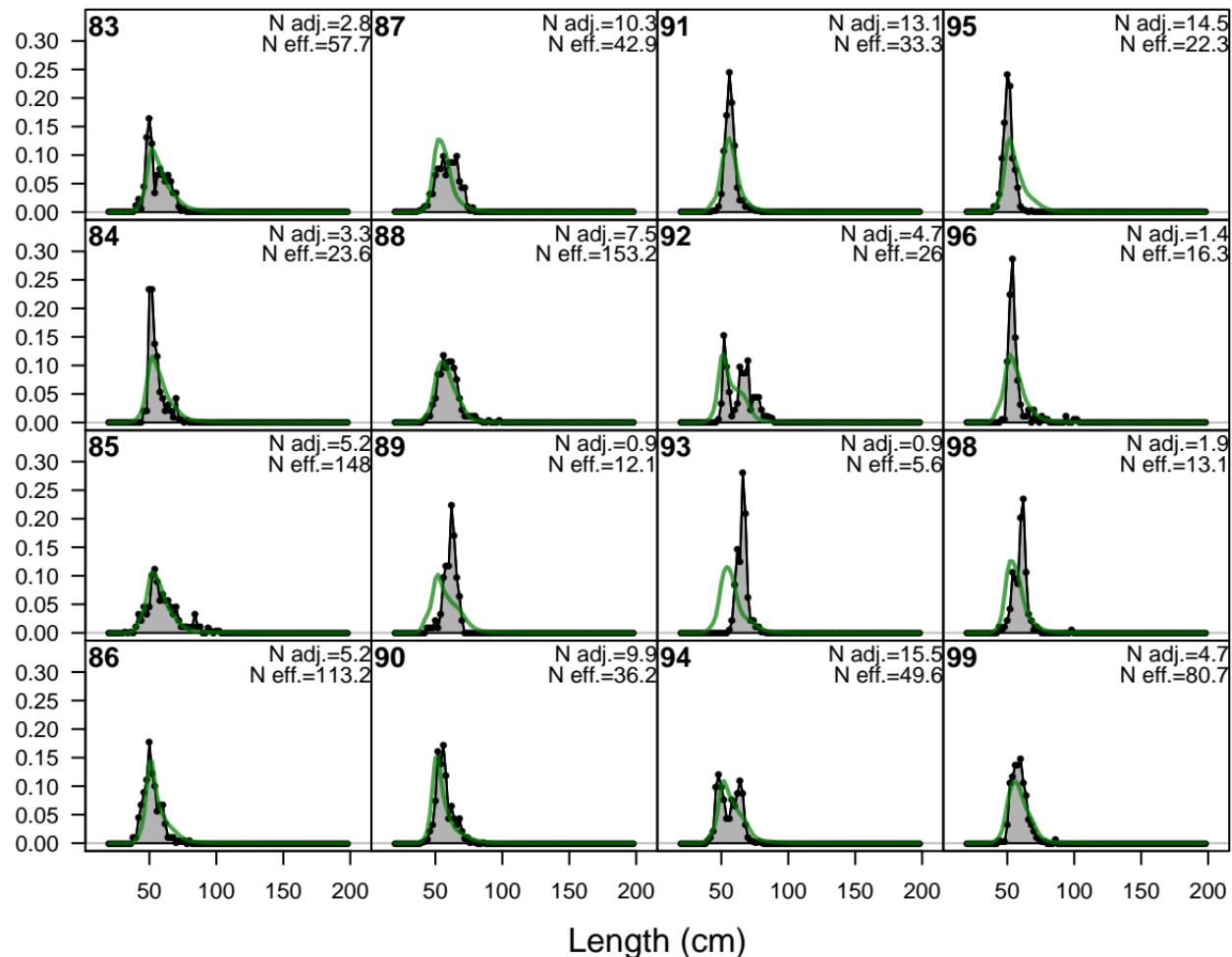
Proportion



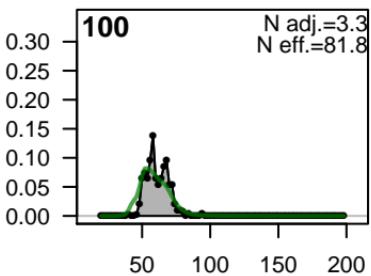
Proportion

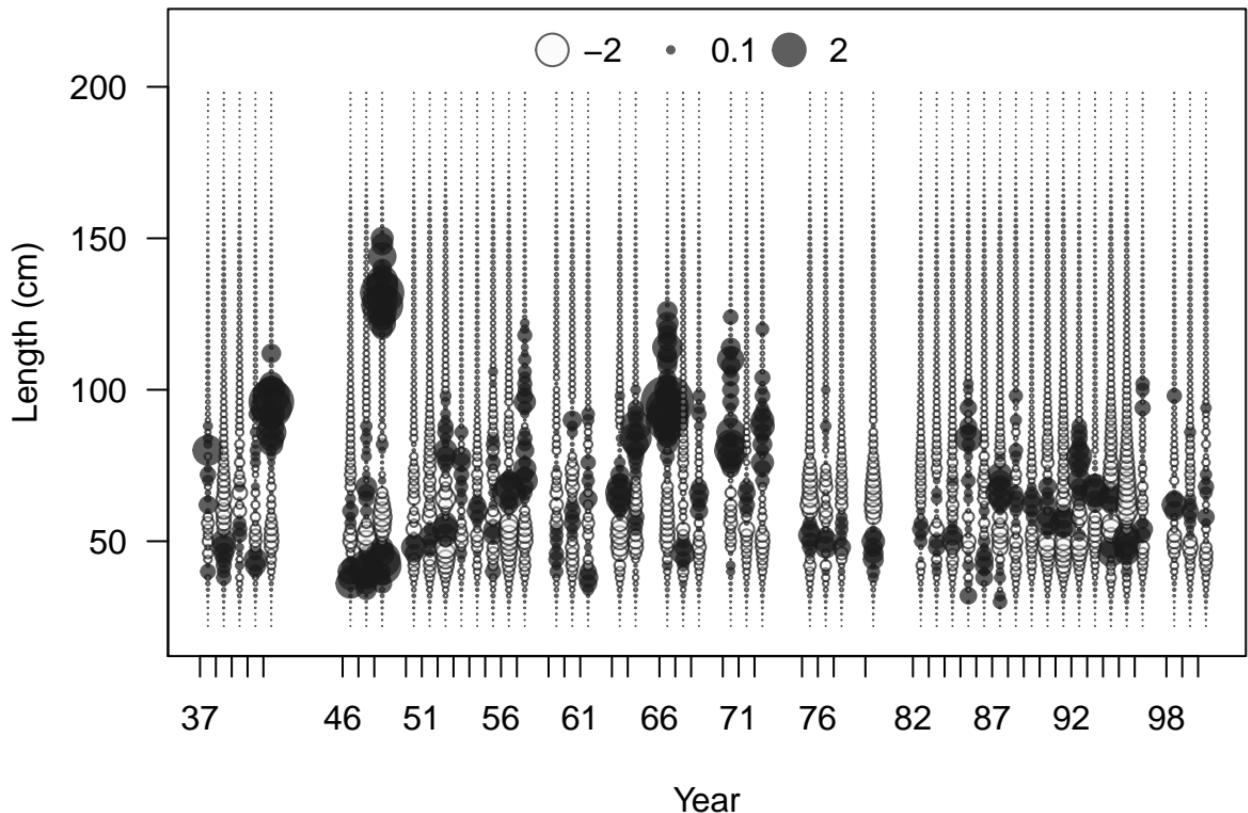


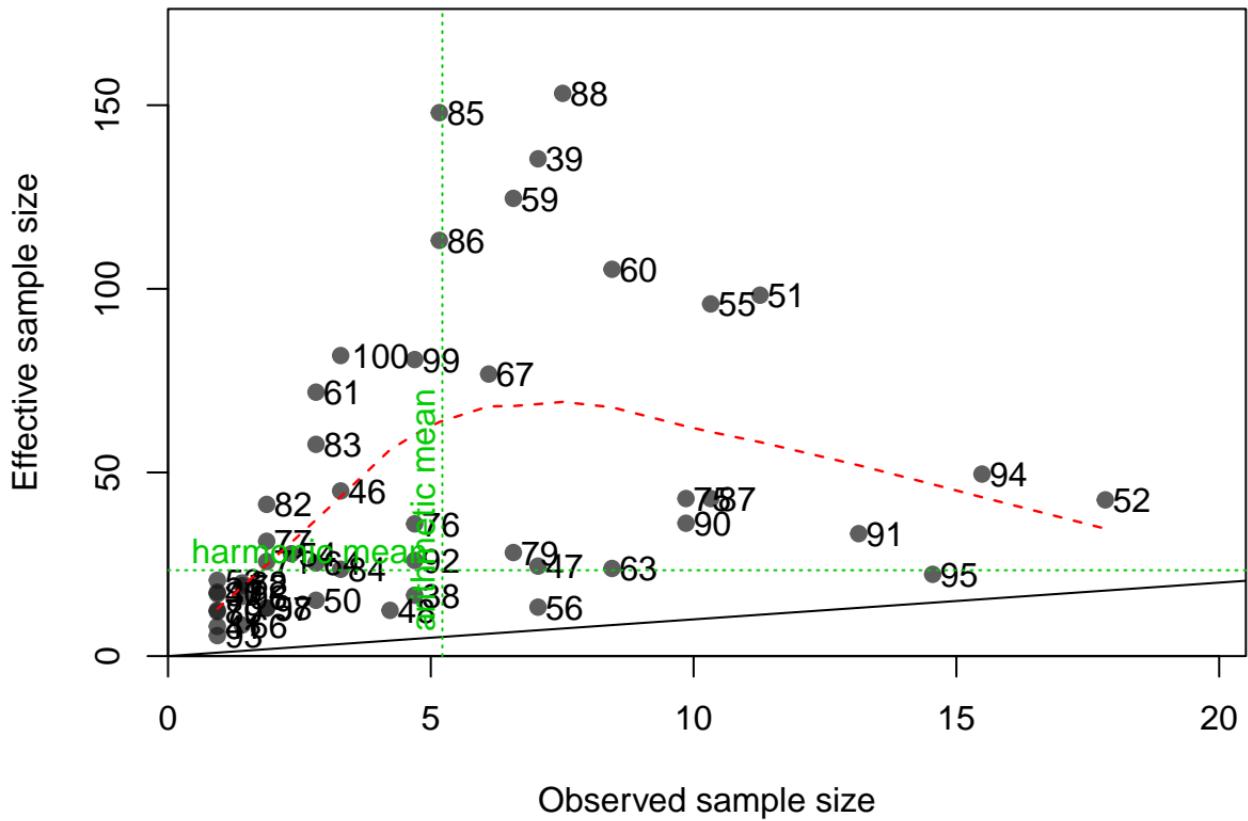
Proportion



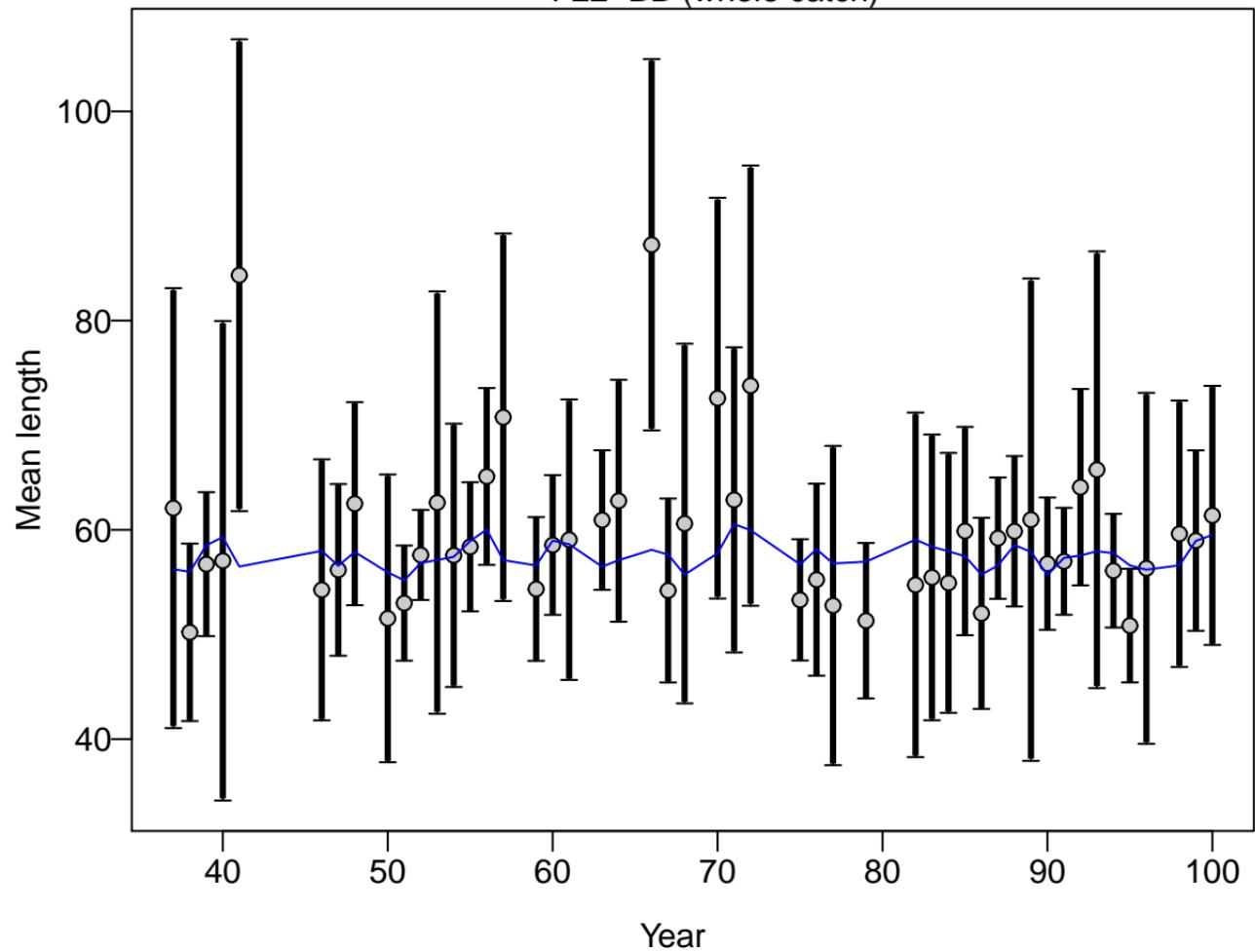
Proportion



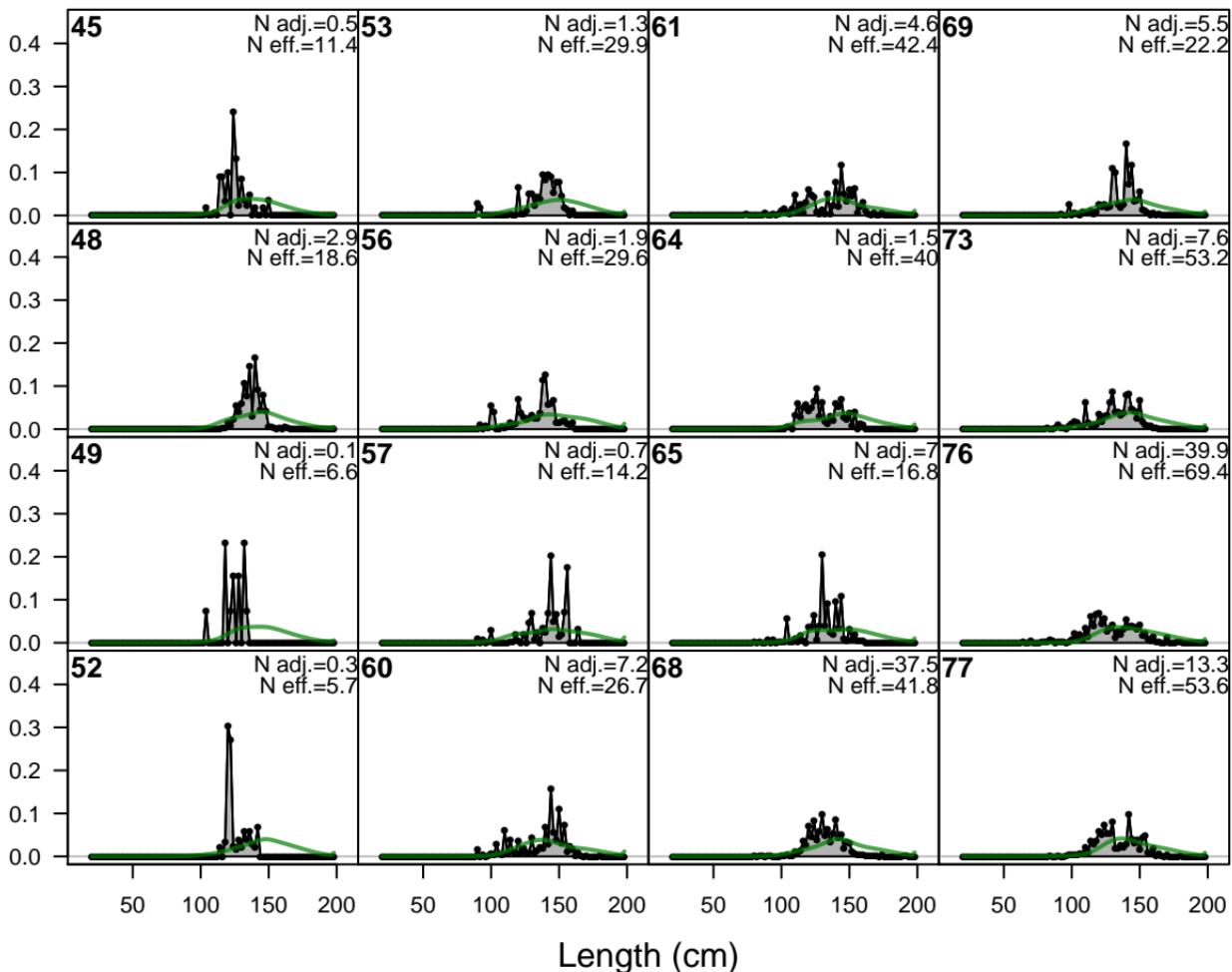




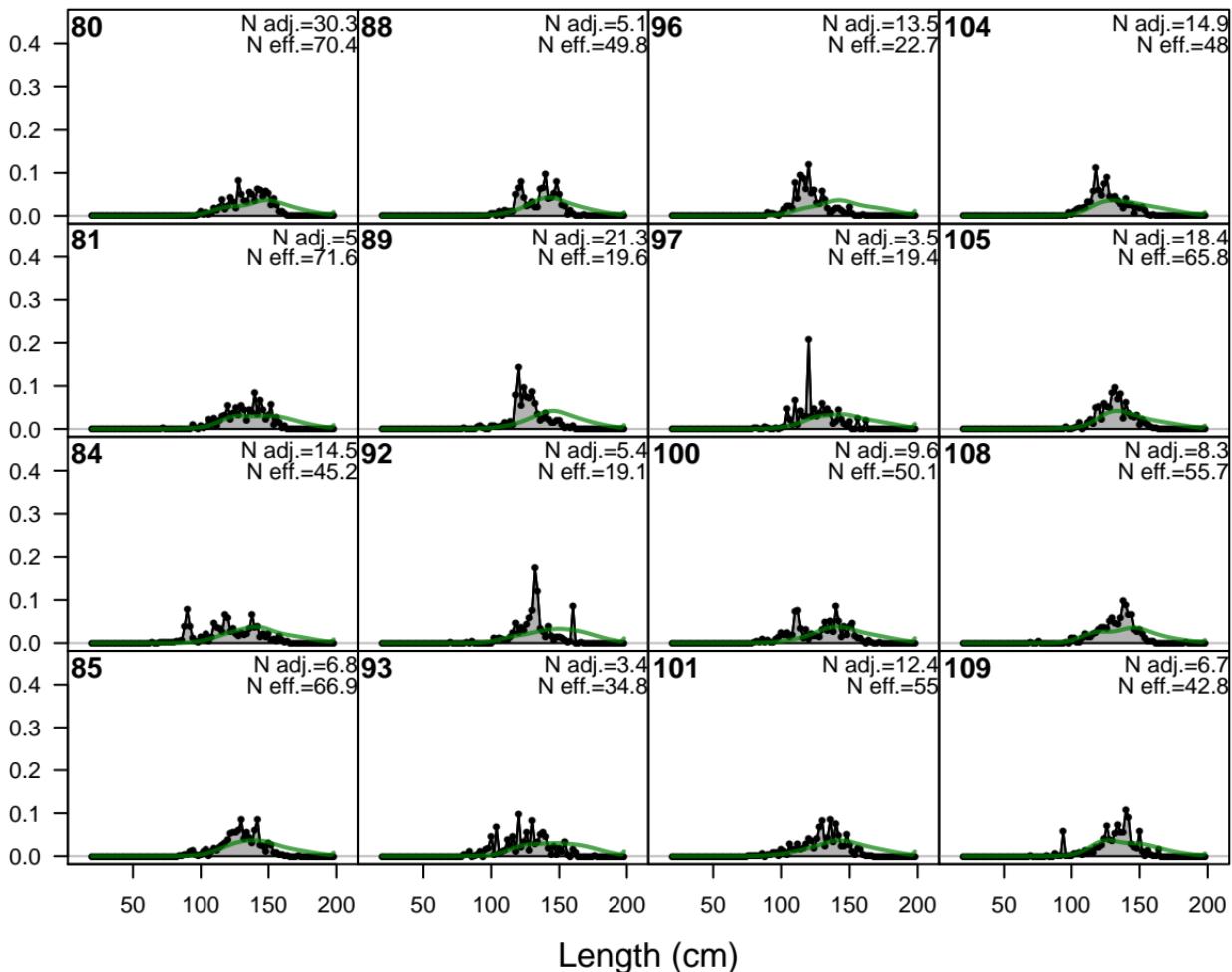
# F22-BB (whole catch)



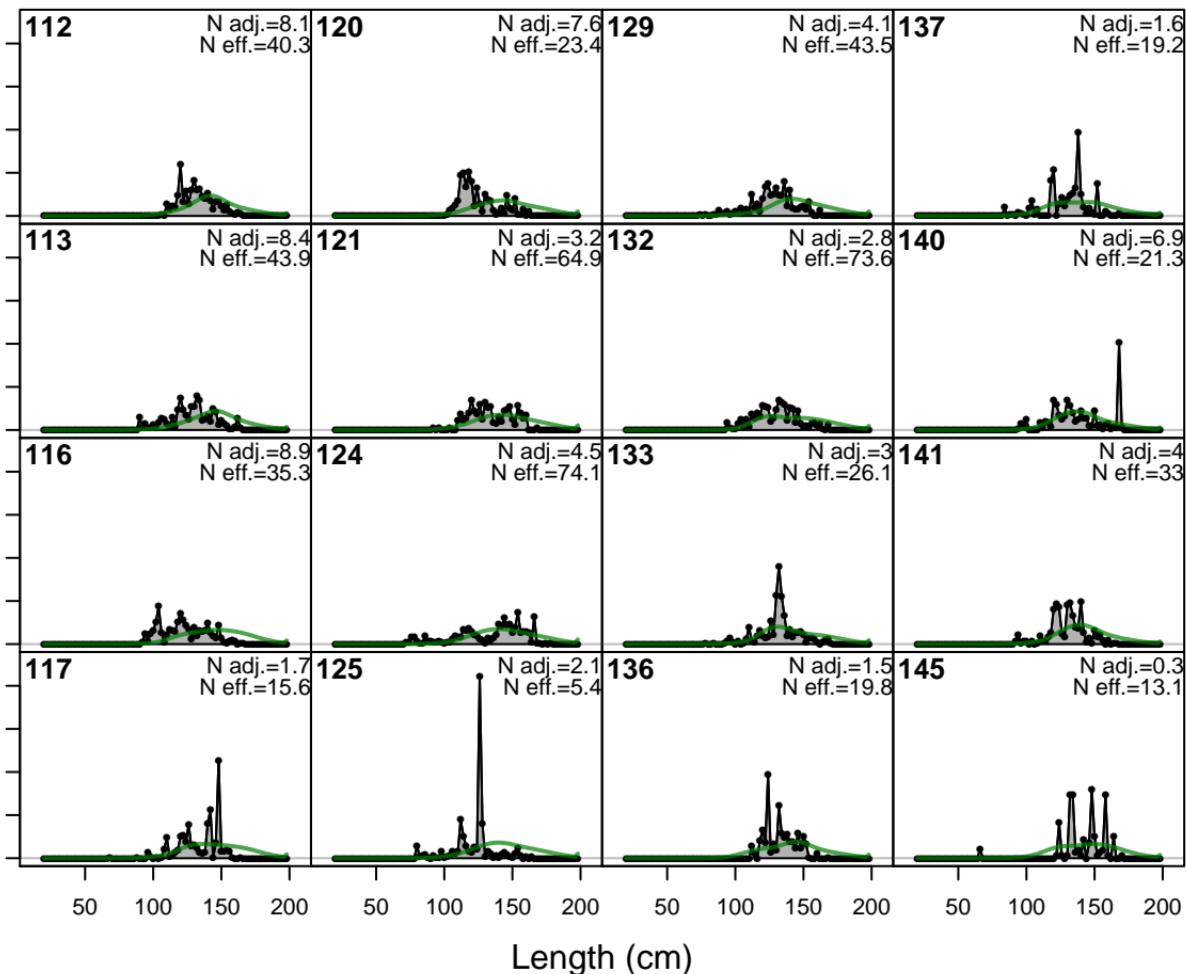
Proportion



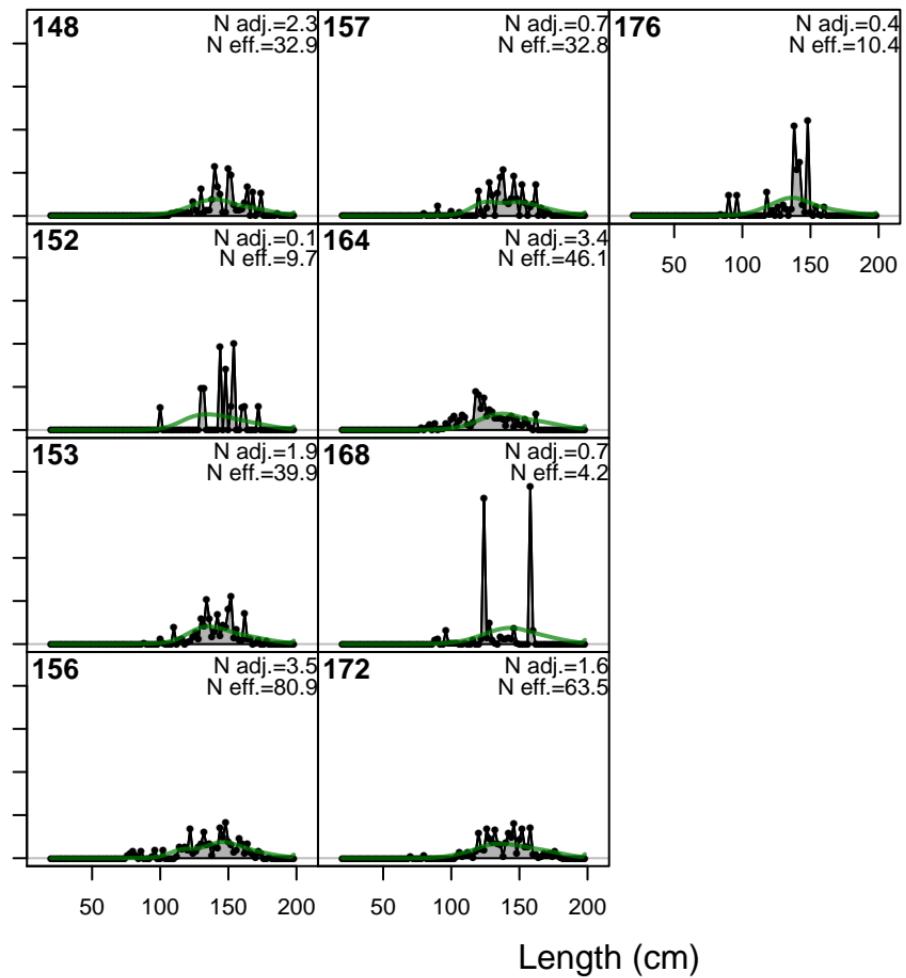
Proportion

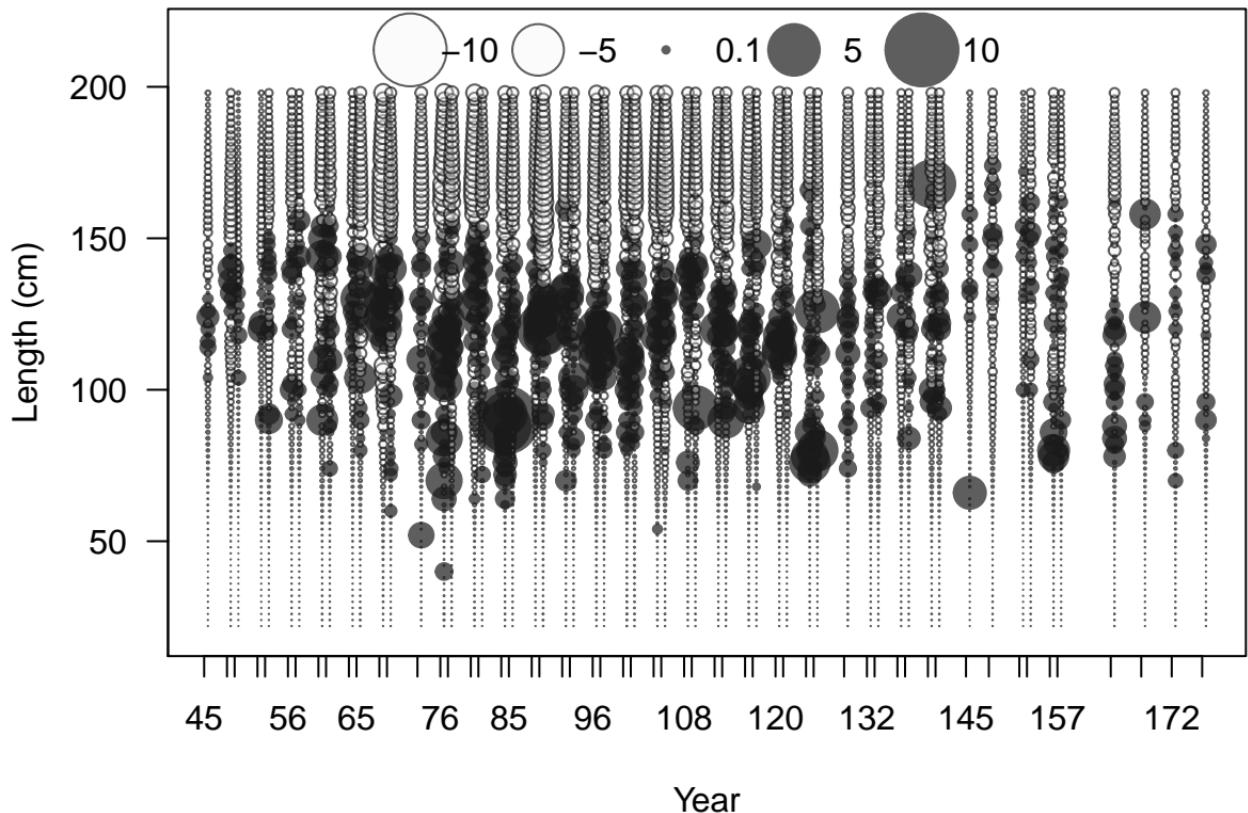


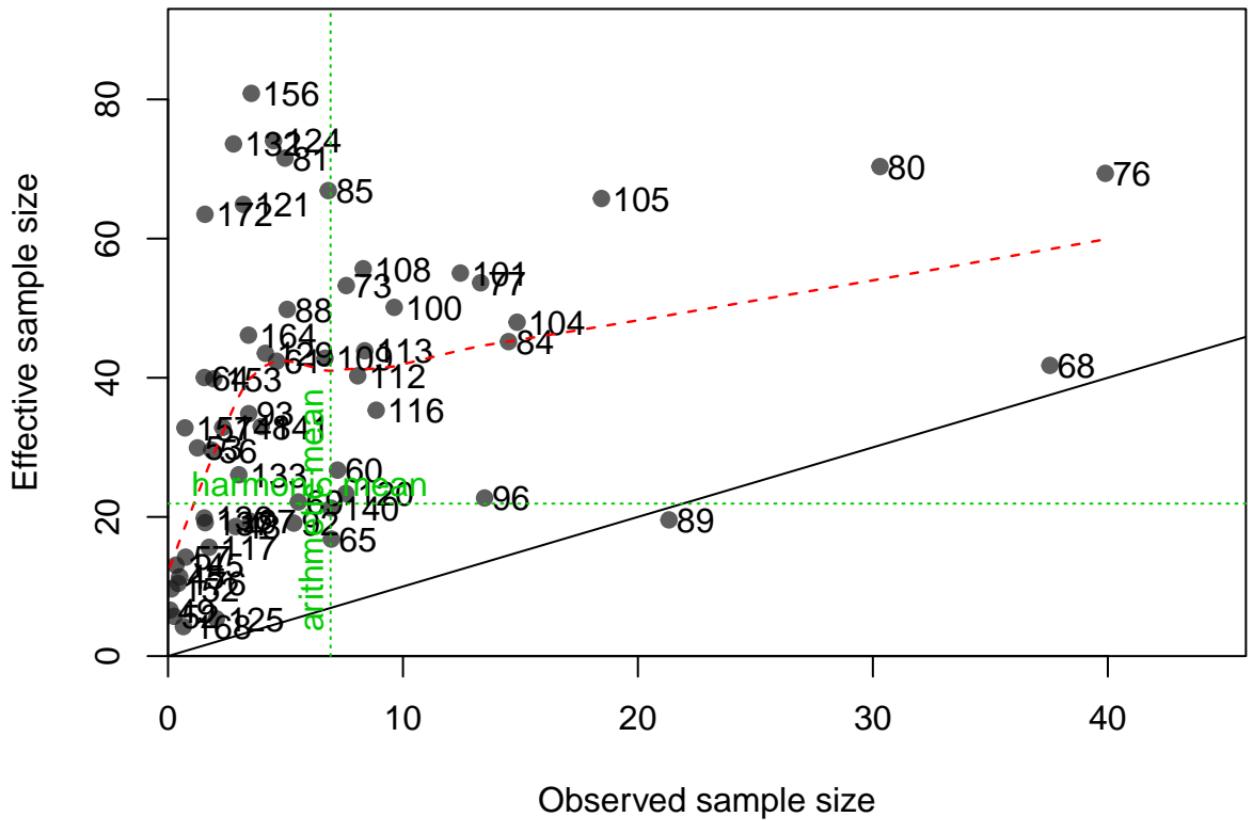
Proportion



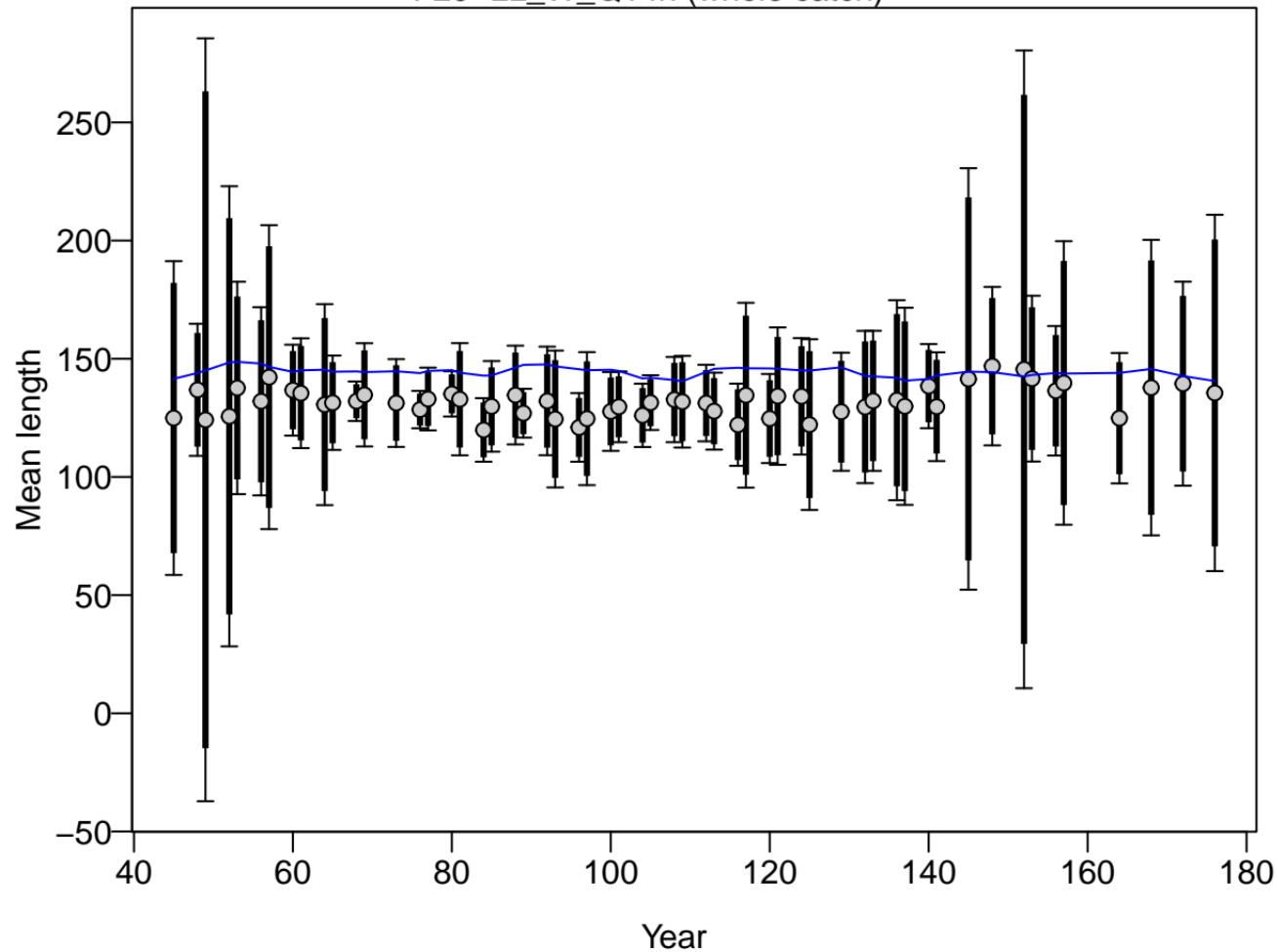
Proportion



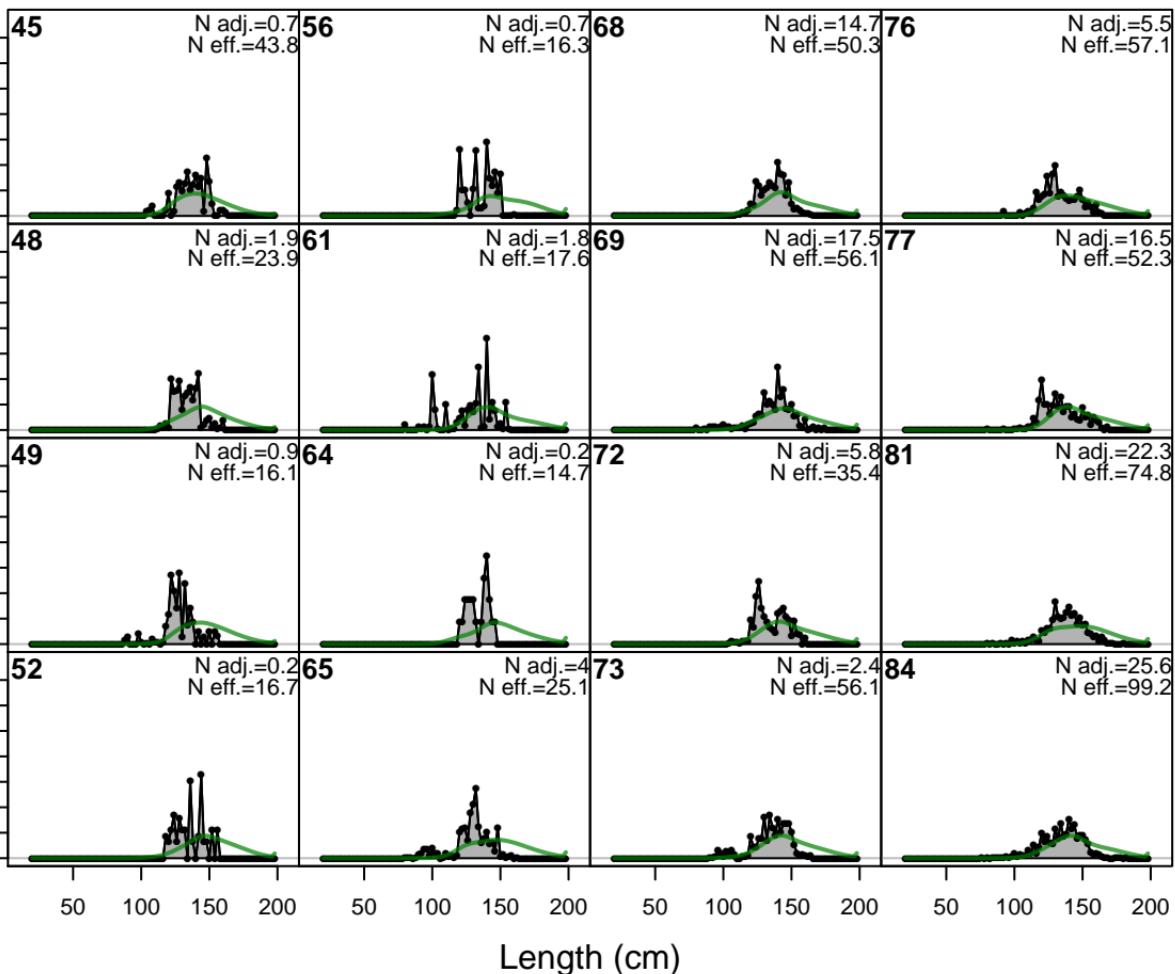




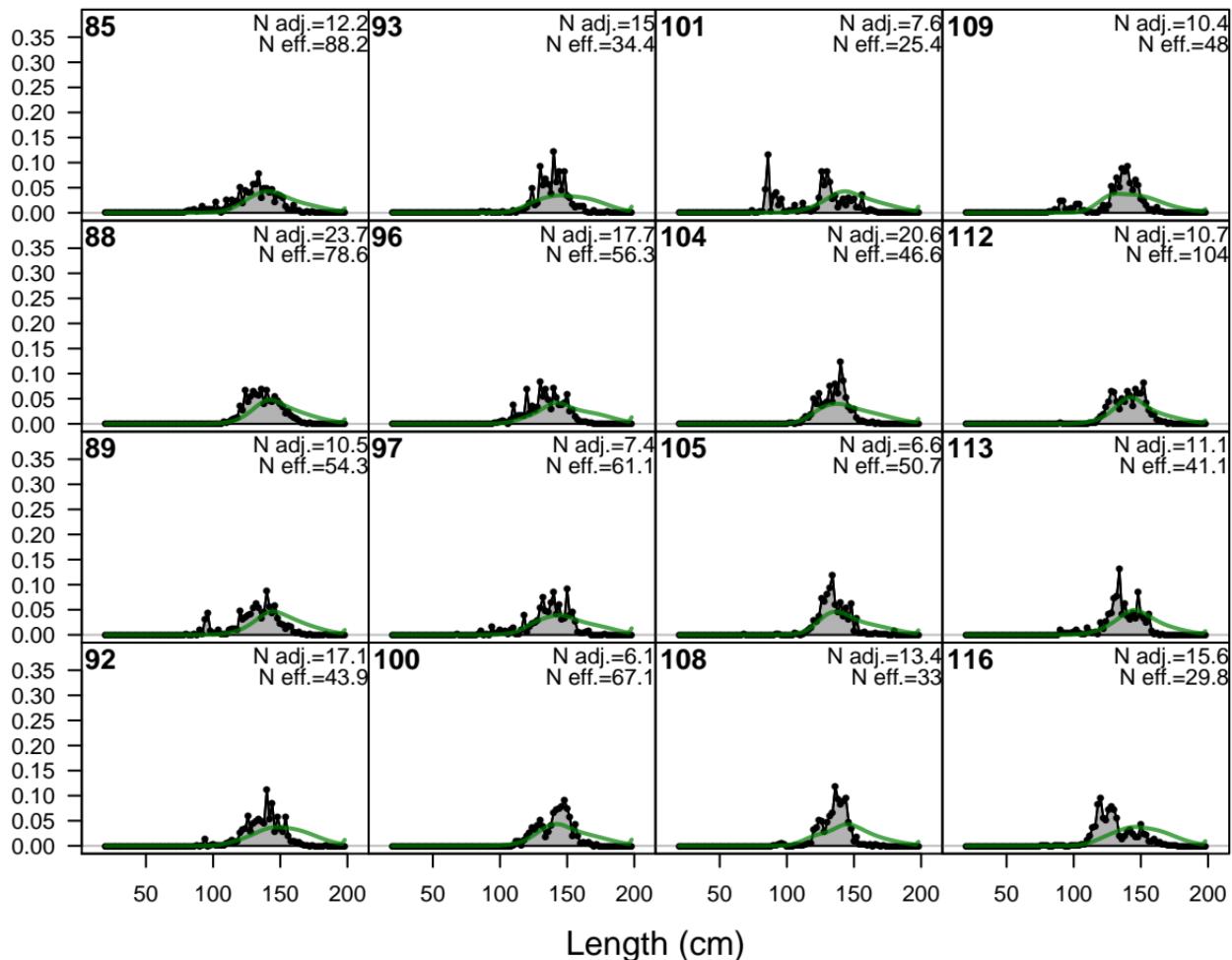
### F29-LL\_W\_Q14n (whole catch)



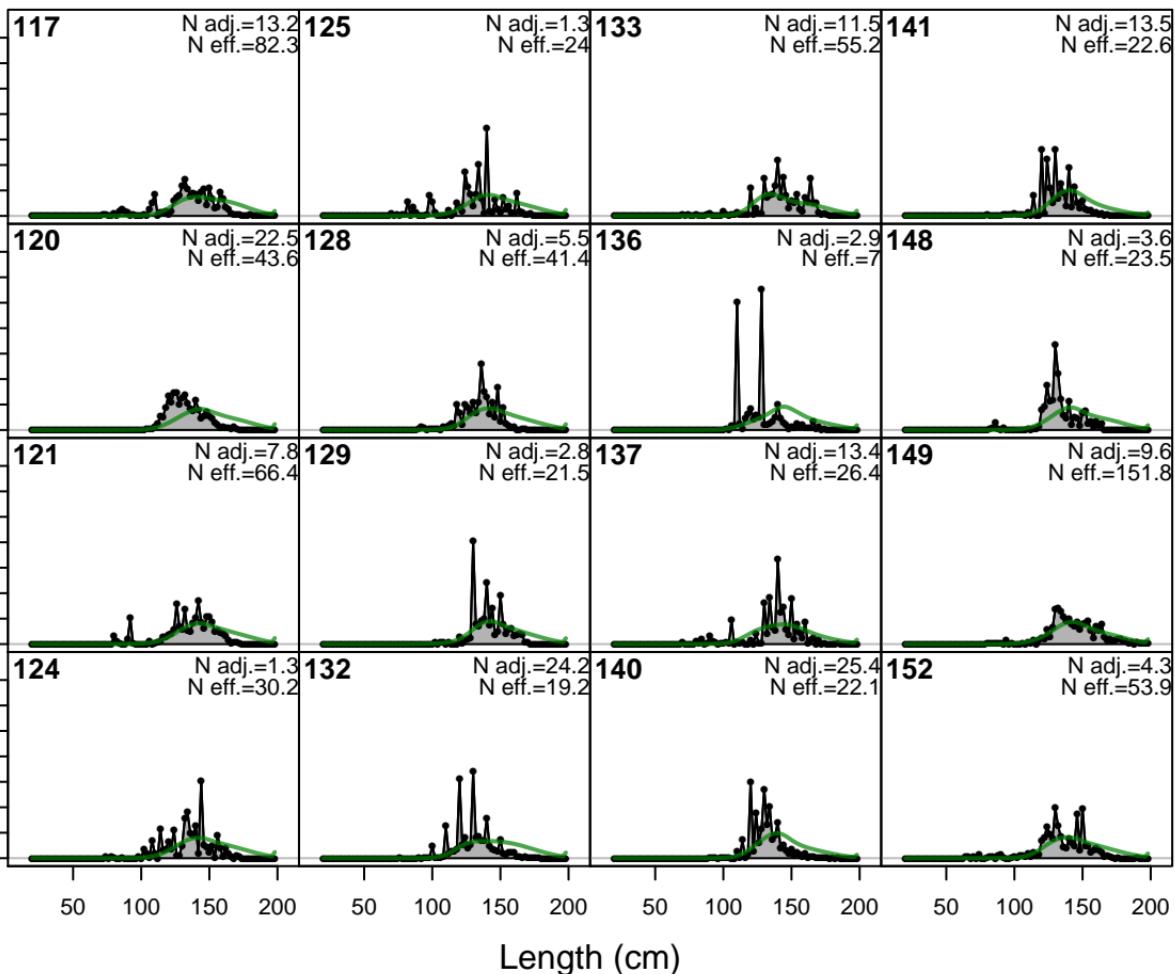
Proportion



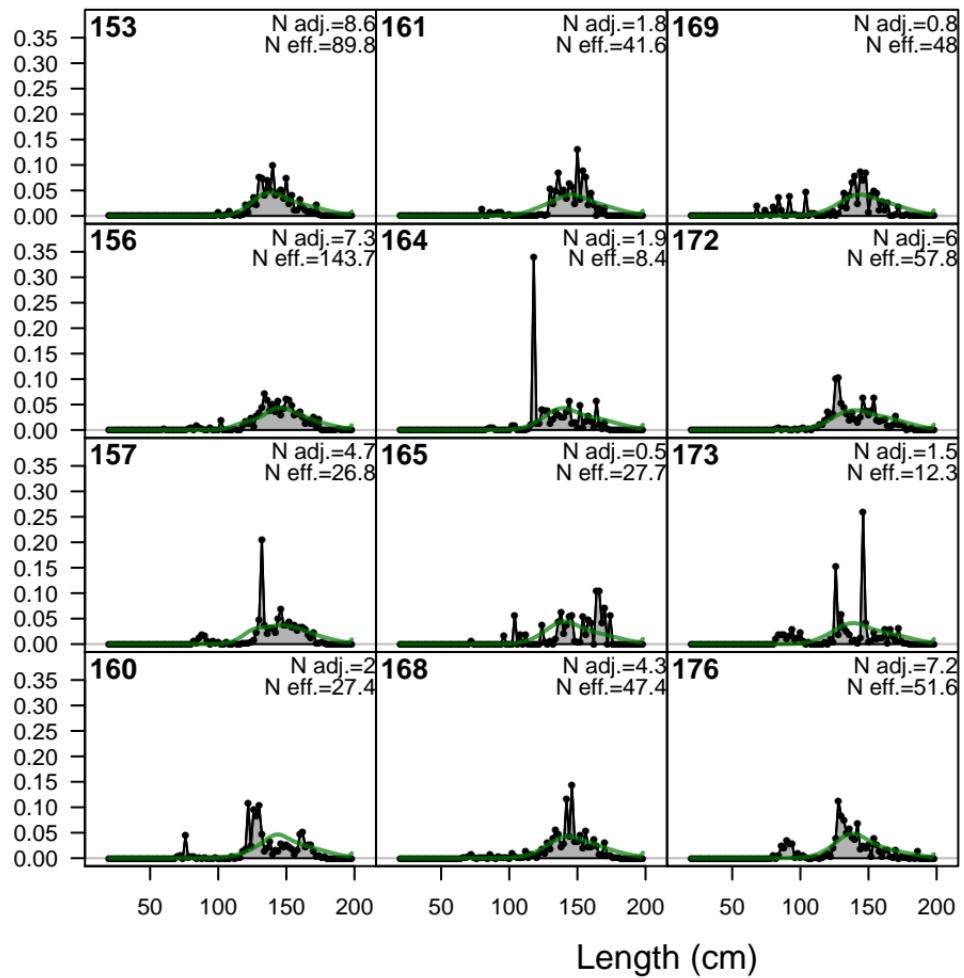
Proportion

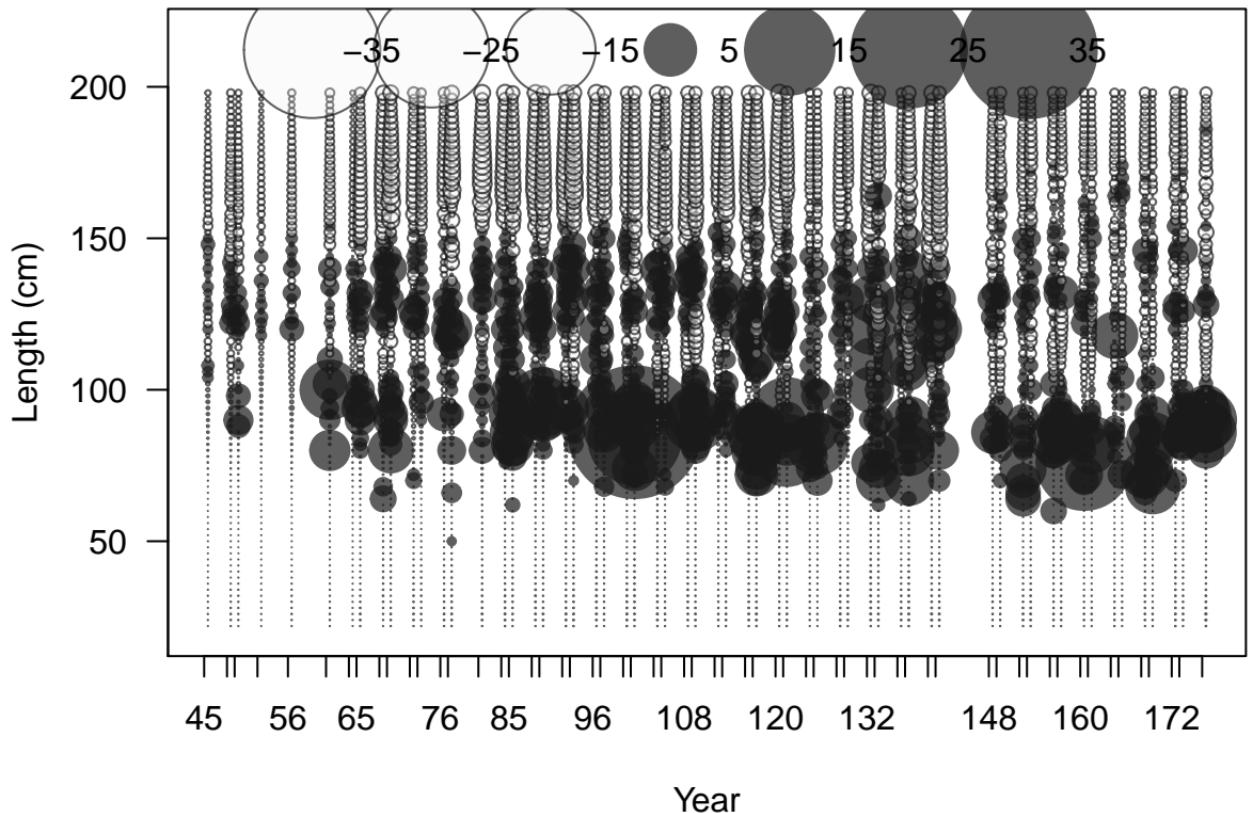


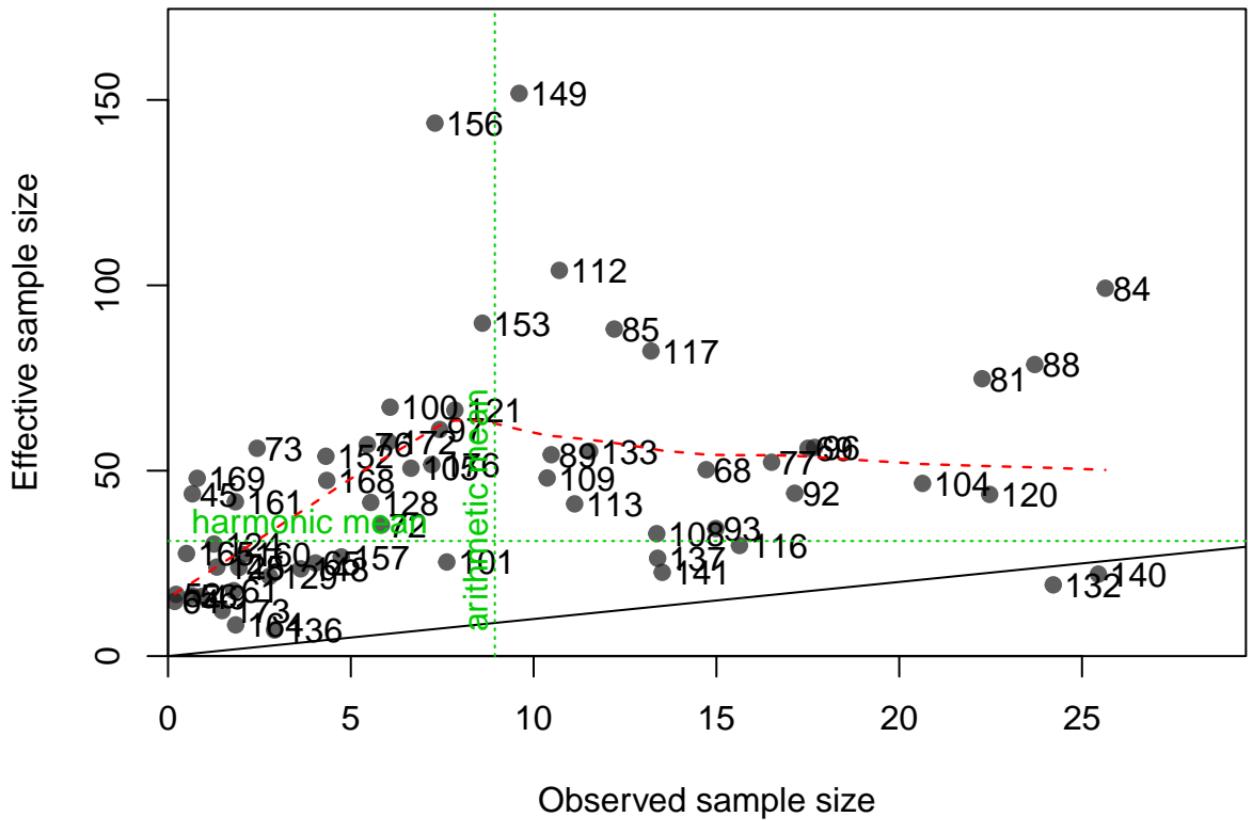
Proportion



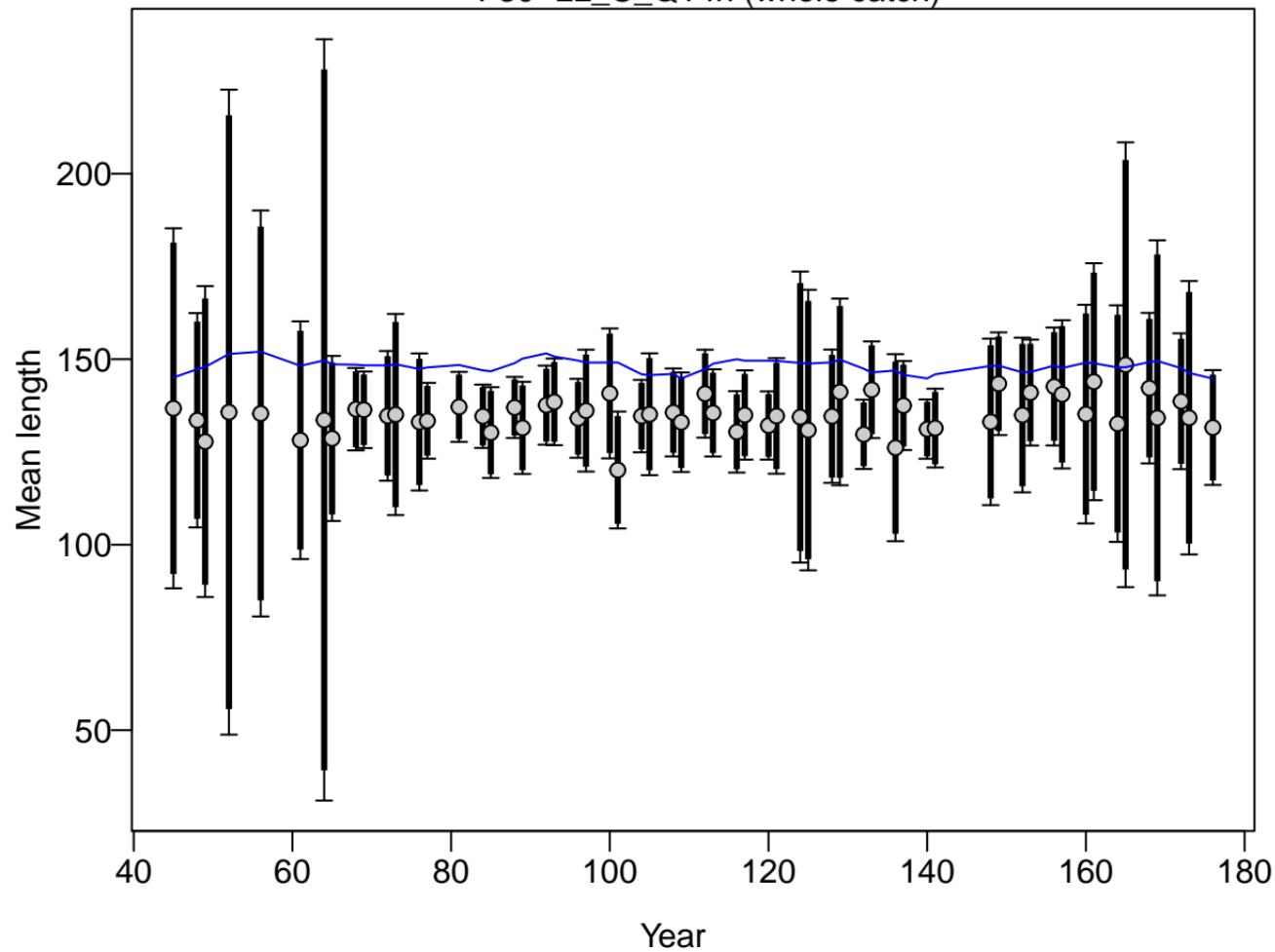
Proportion



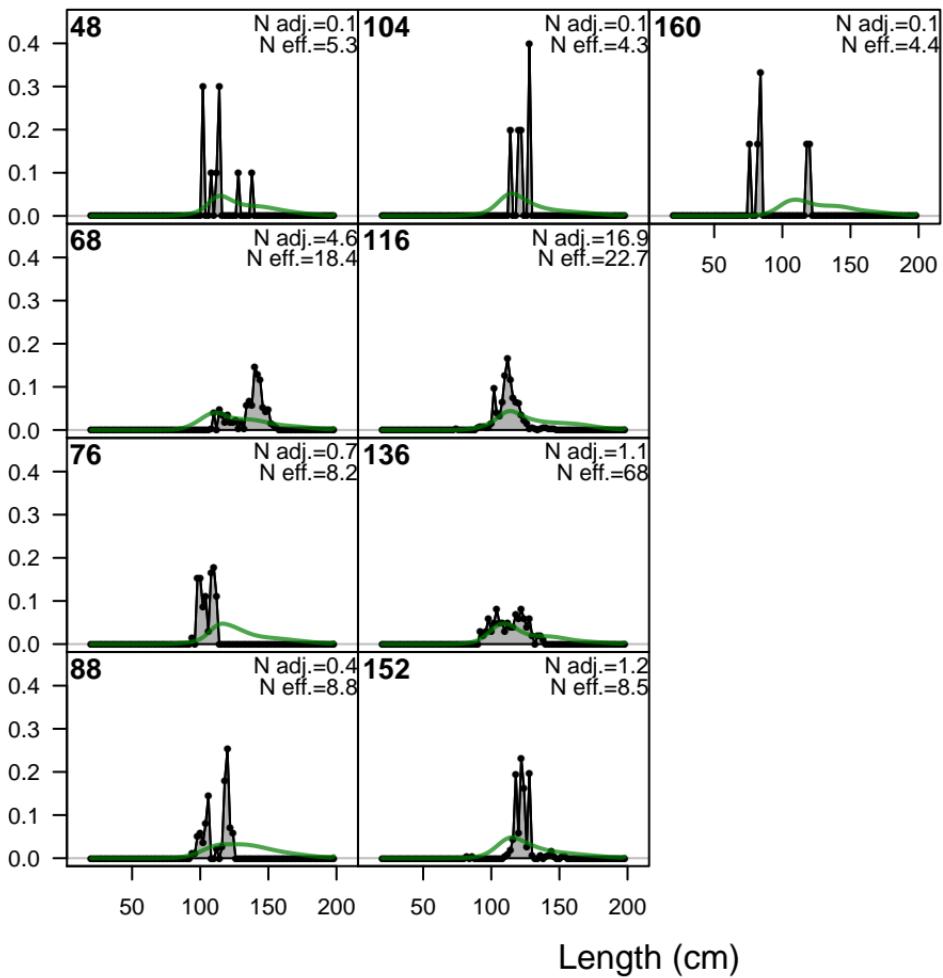


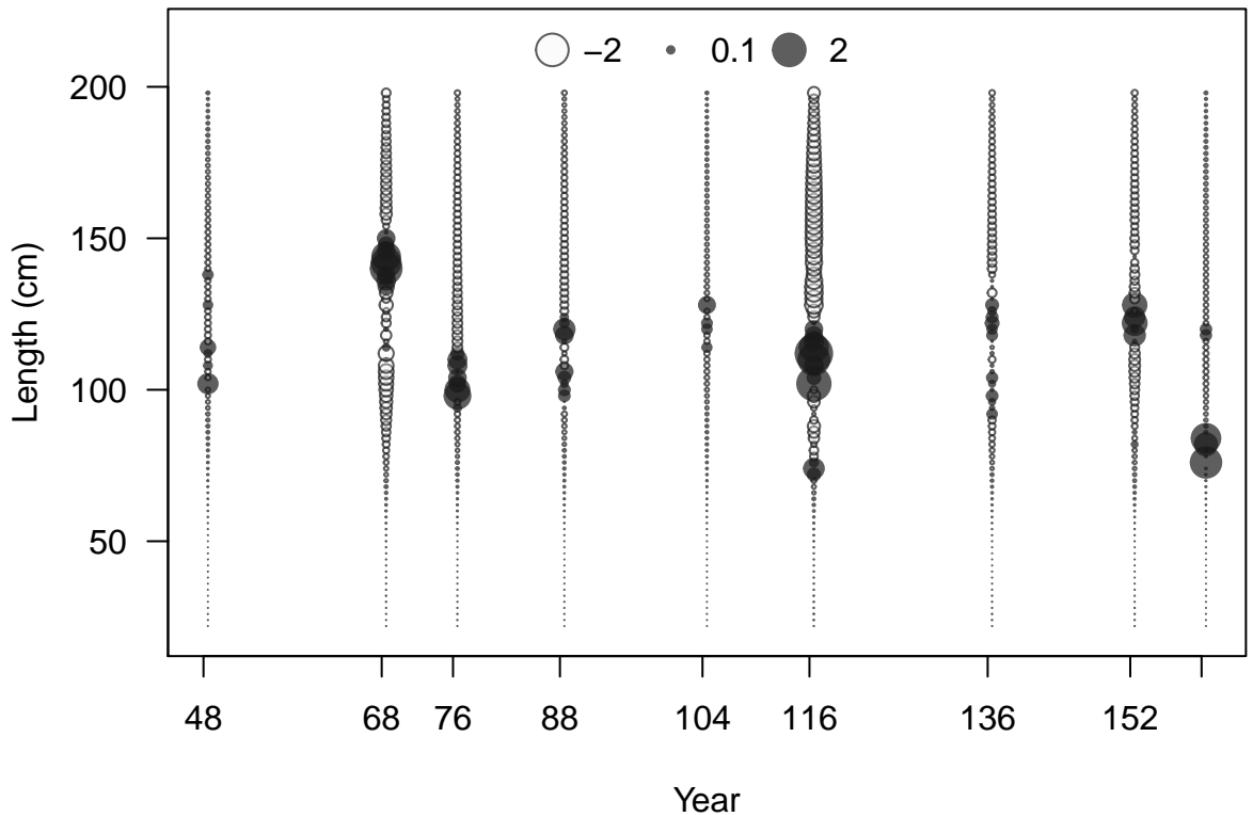


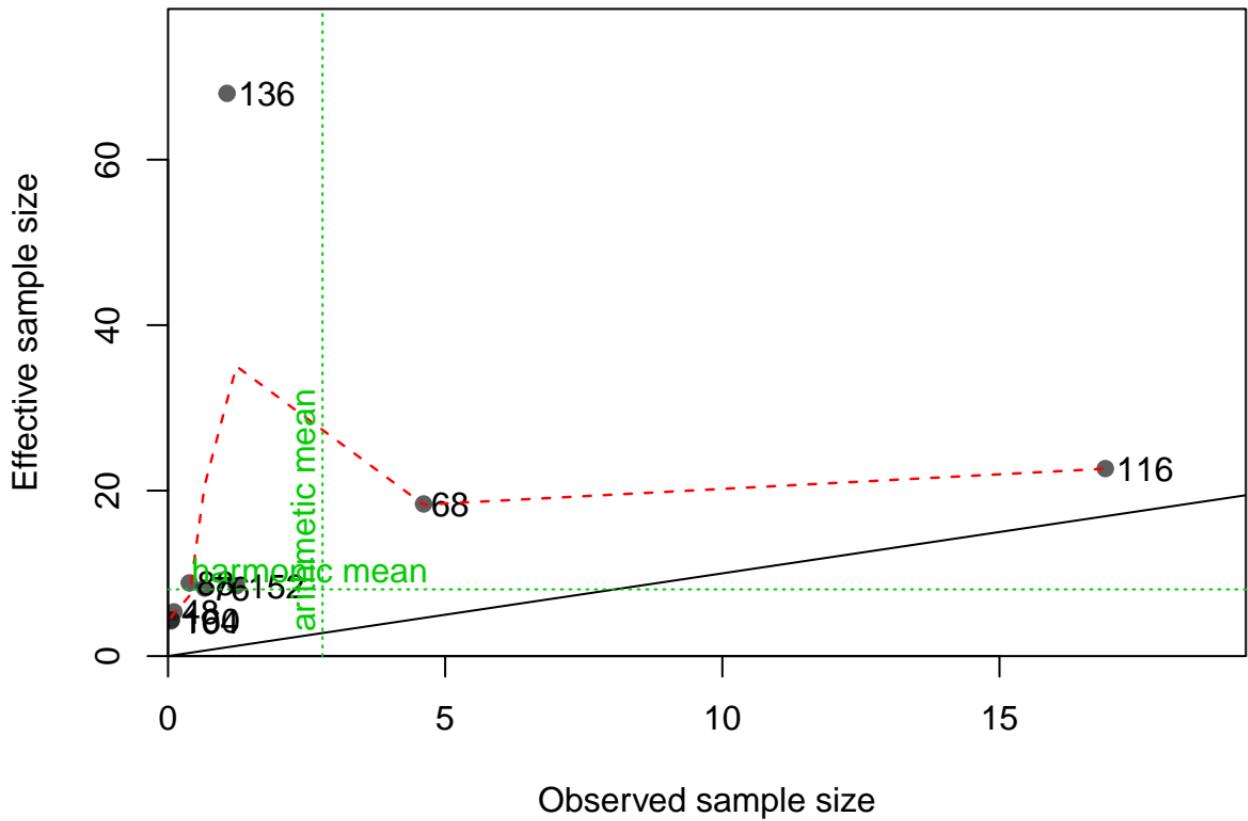
### F30-LL\_C\_Q14n (whole catch)



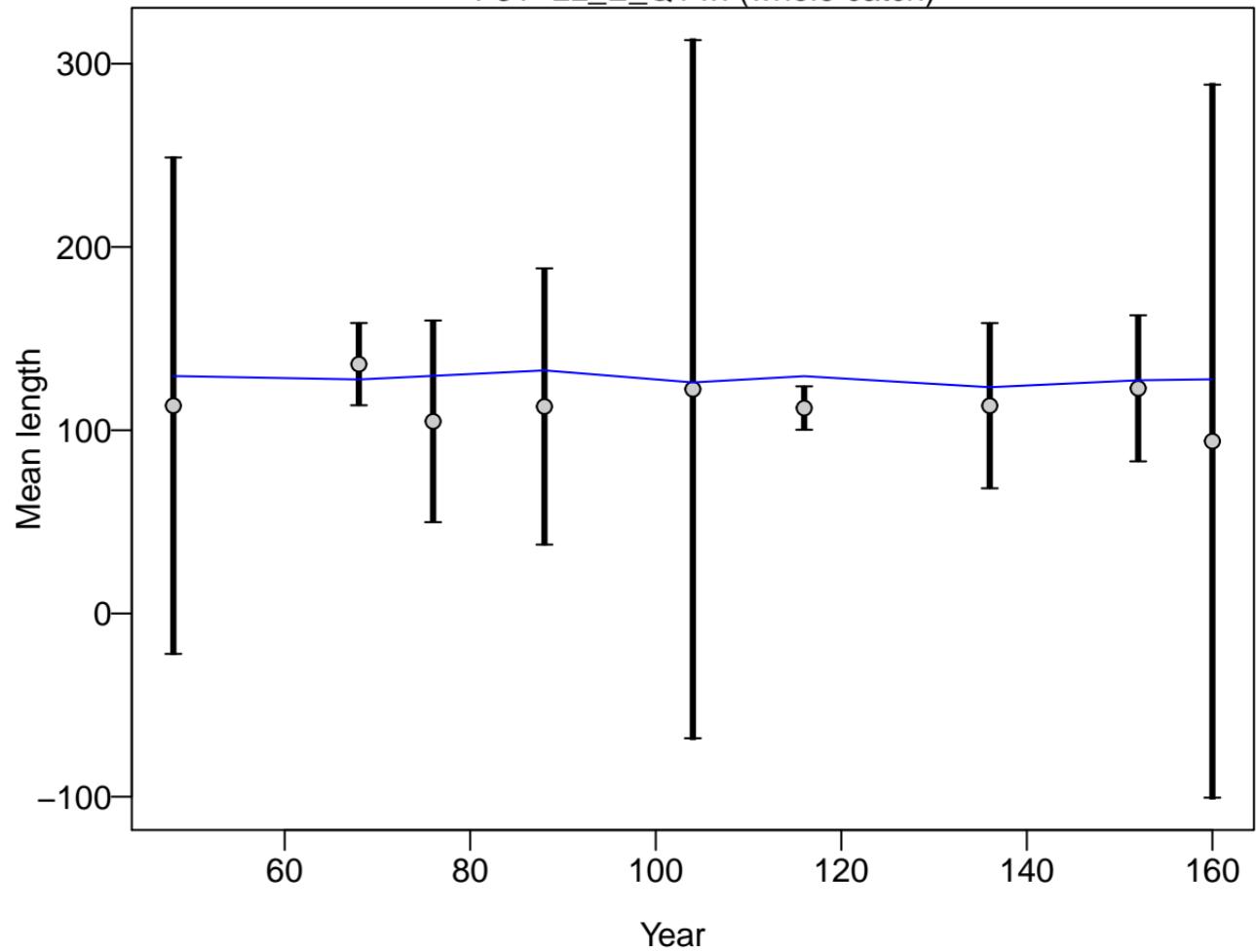
Proportion



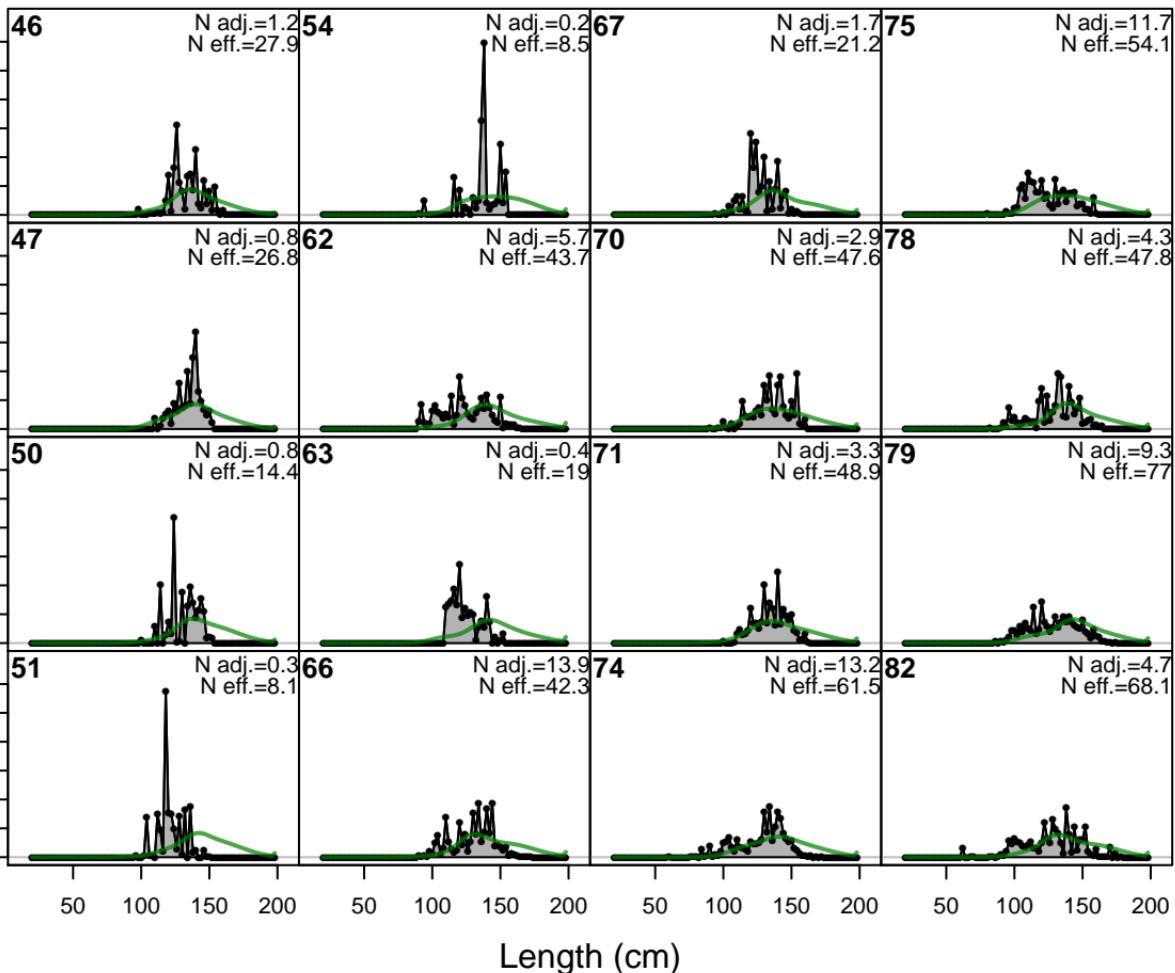




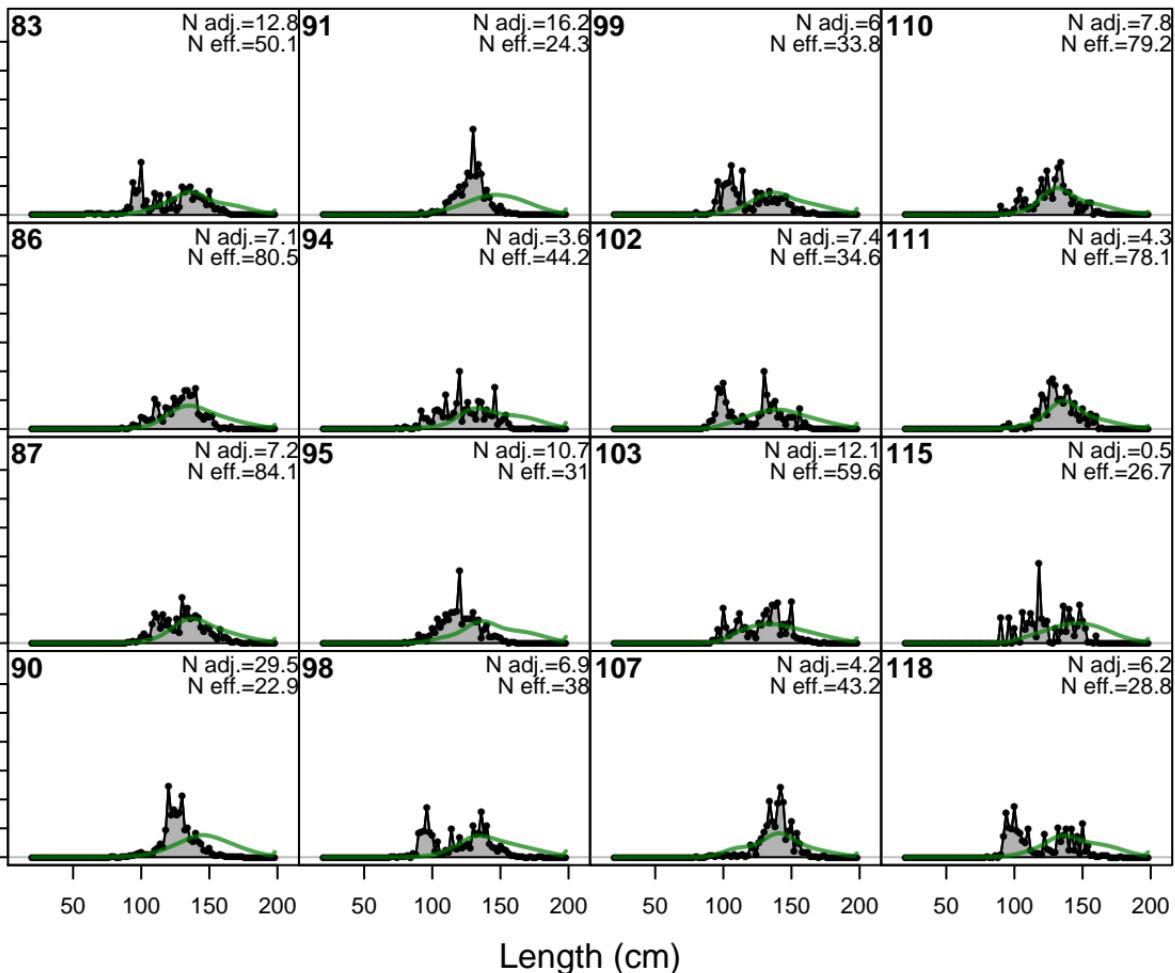
### F31-LL\_E\_Q14n (whole catch)



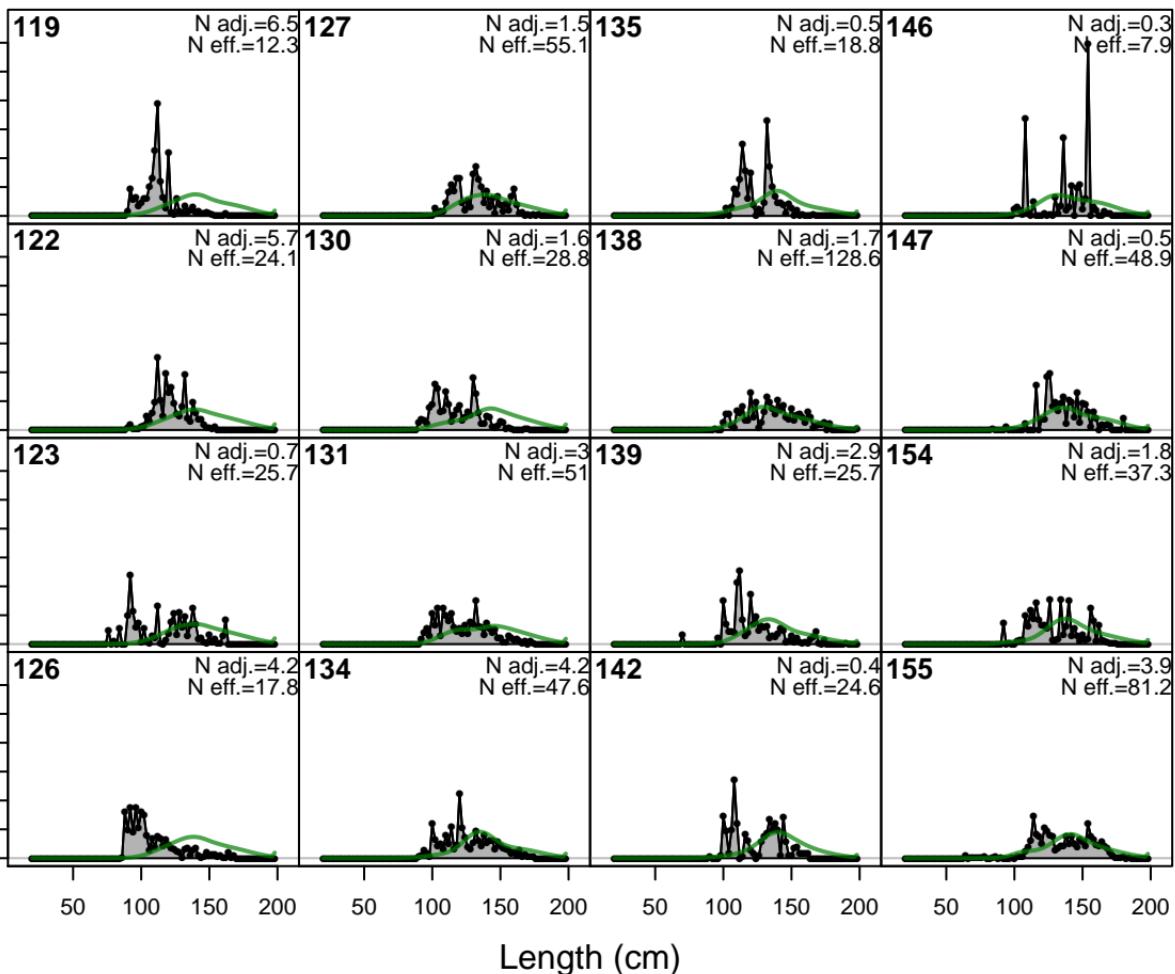
Proportion



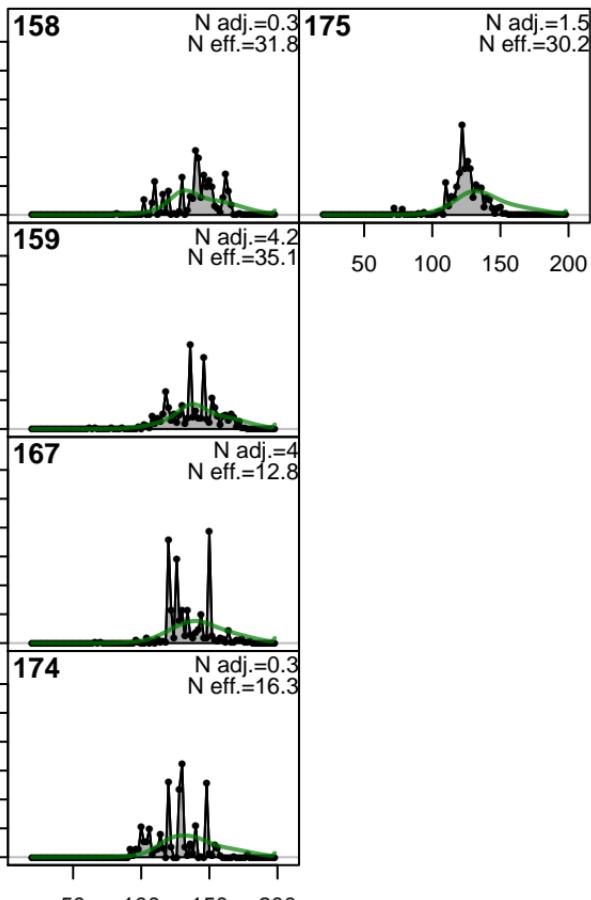
Proportion



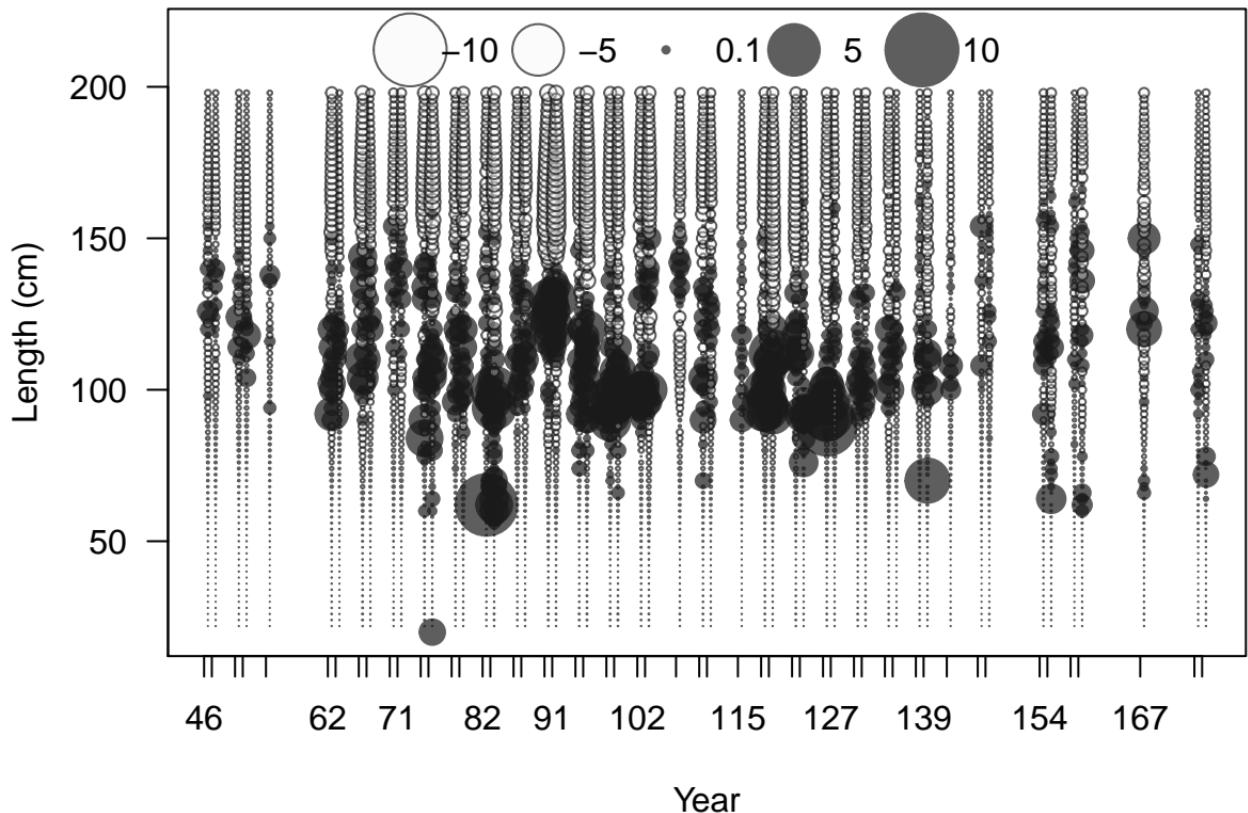
Proportion

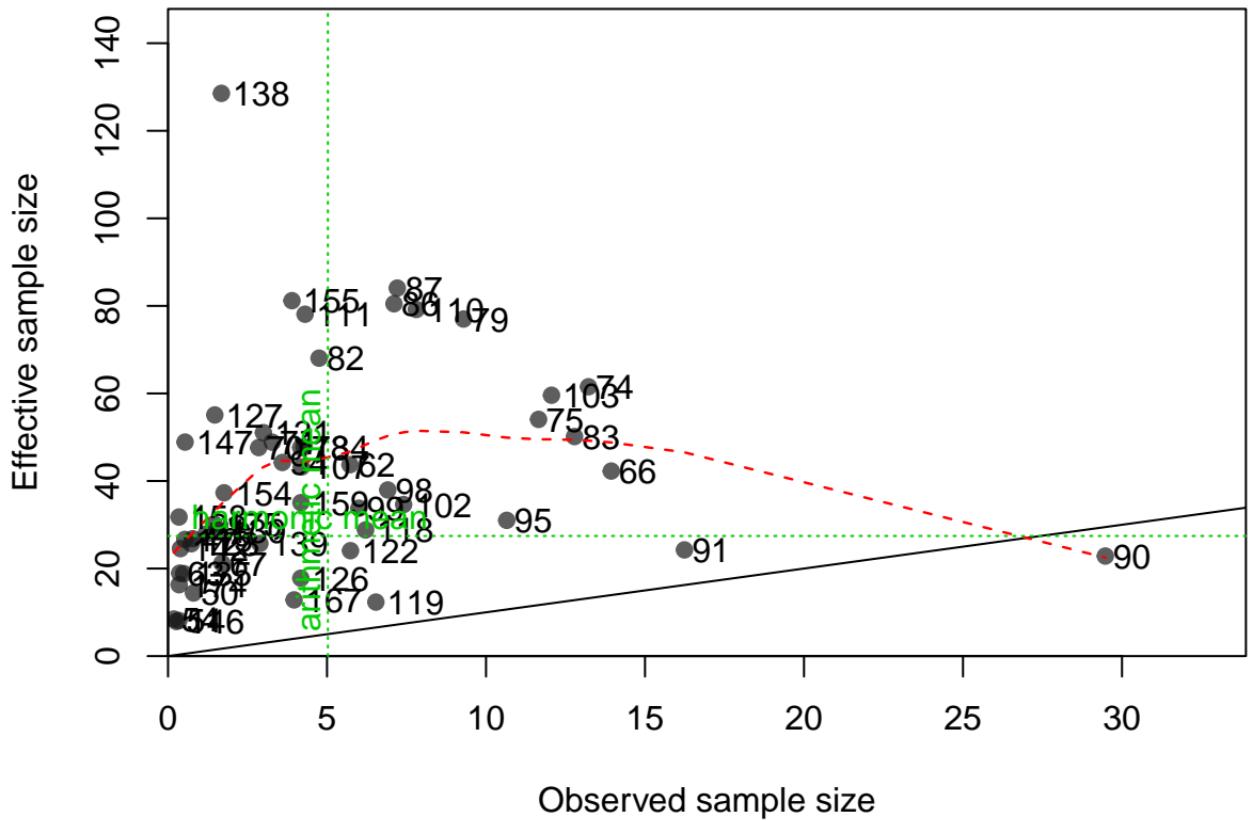


Proportion

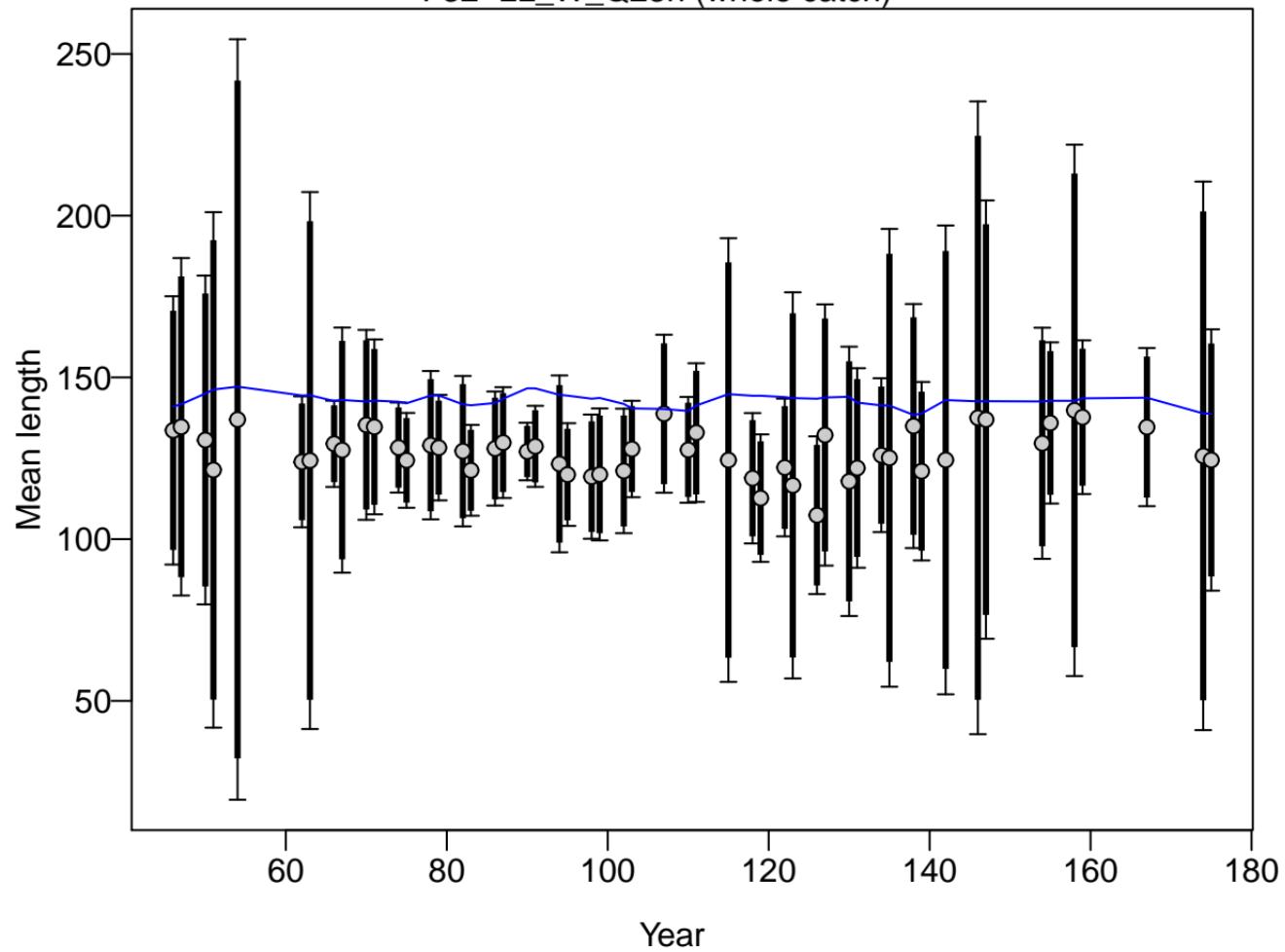


Length (cm)

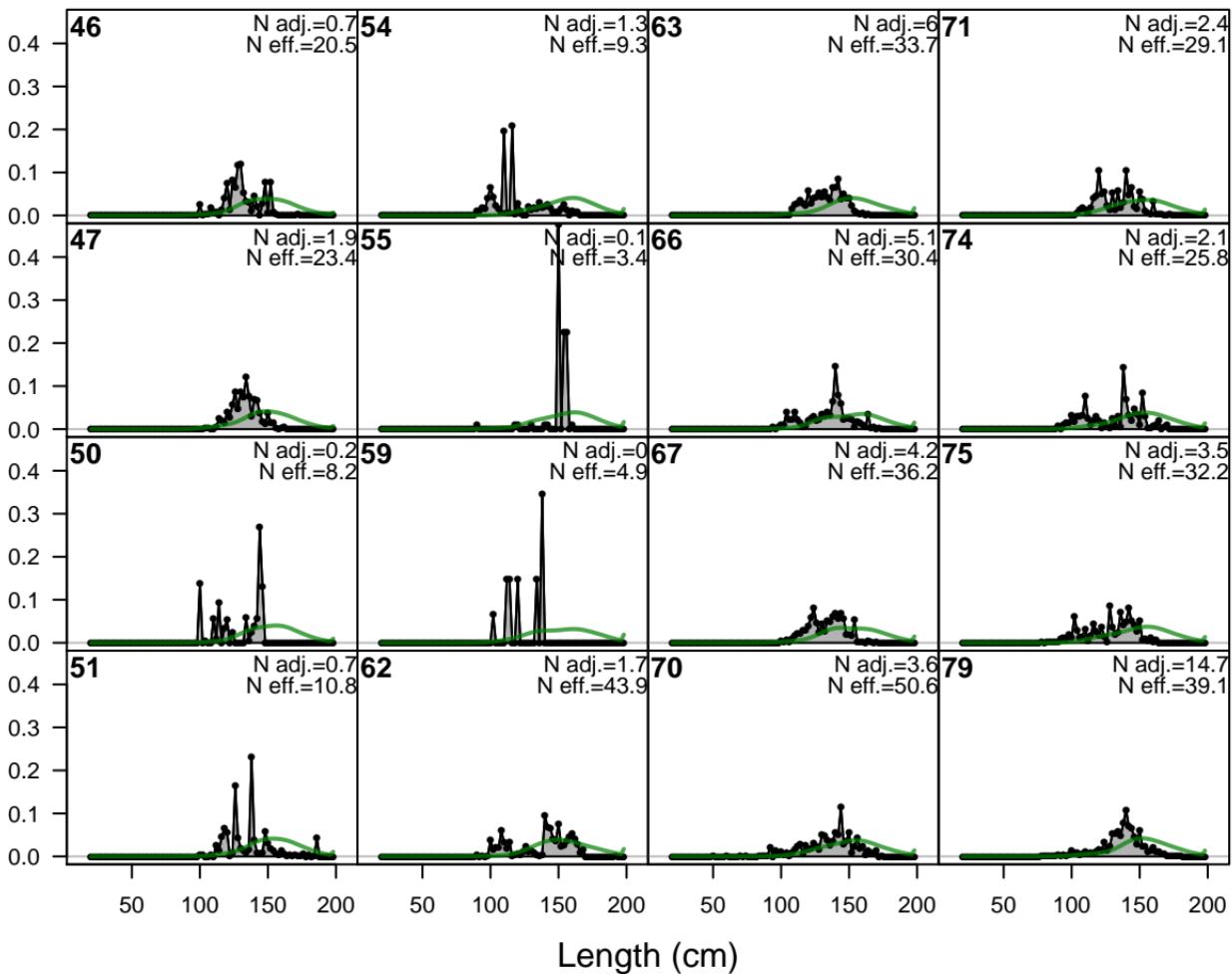




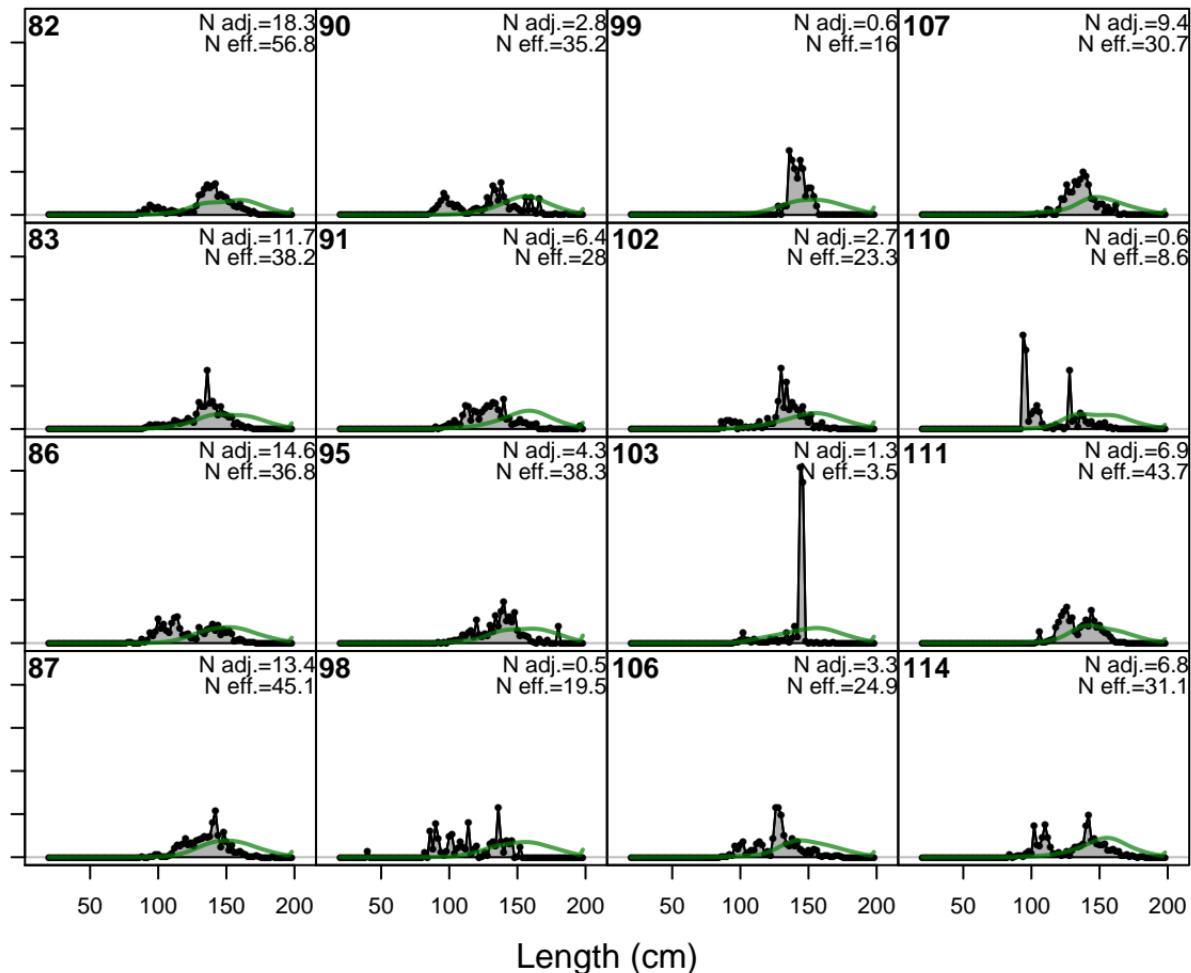
### F32-LL\_W\_Q23n (whole catch)



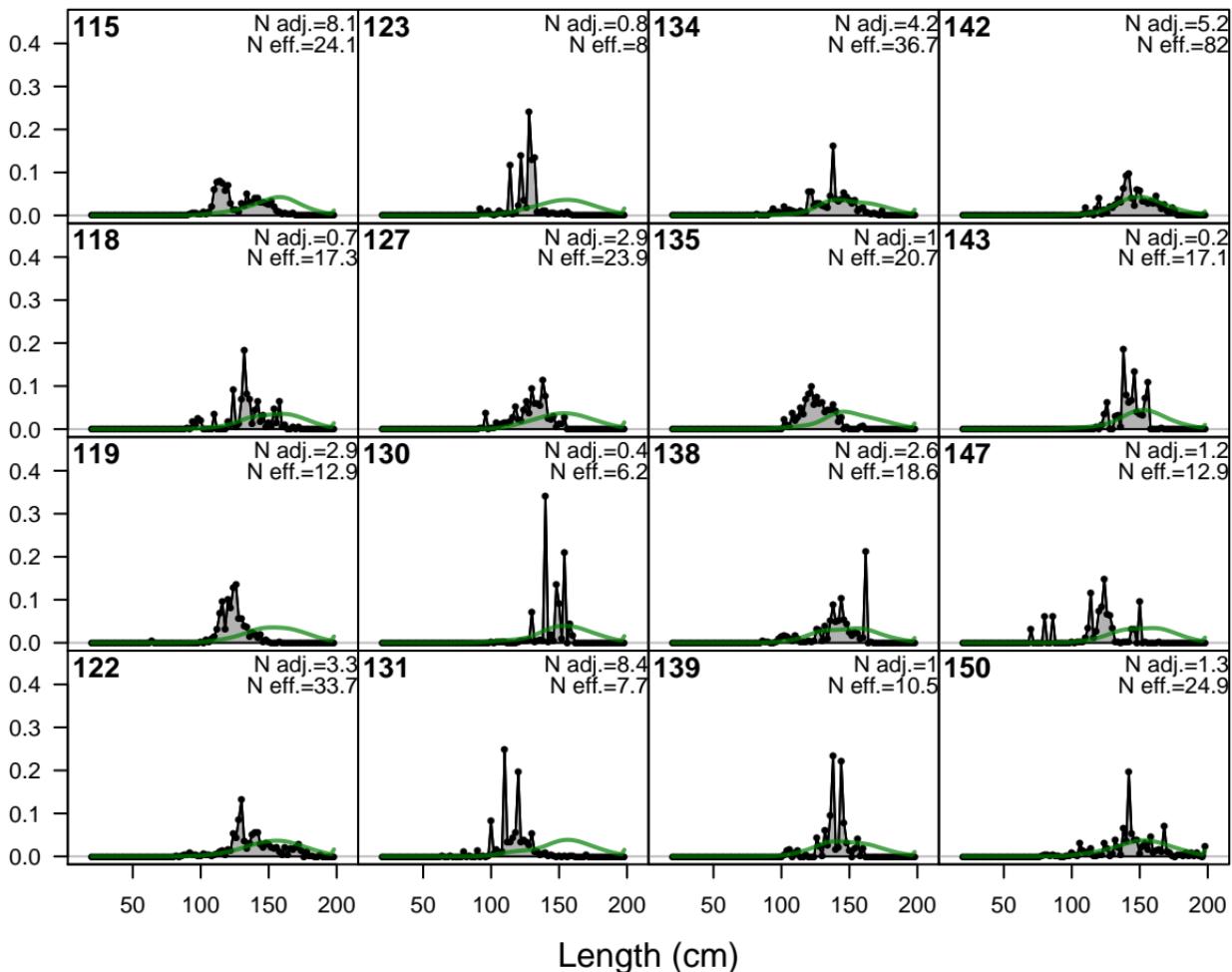
Proportion



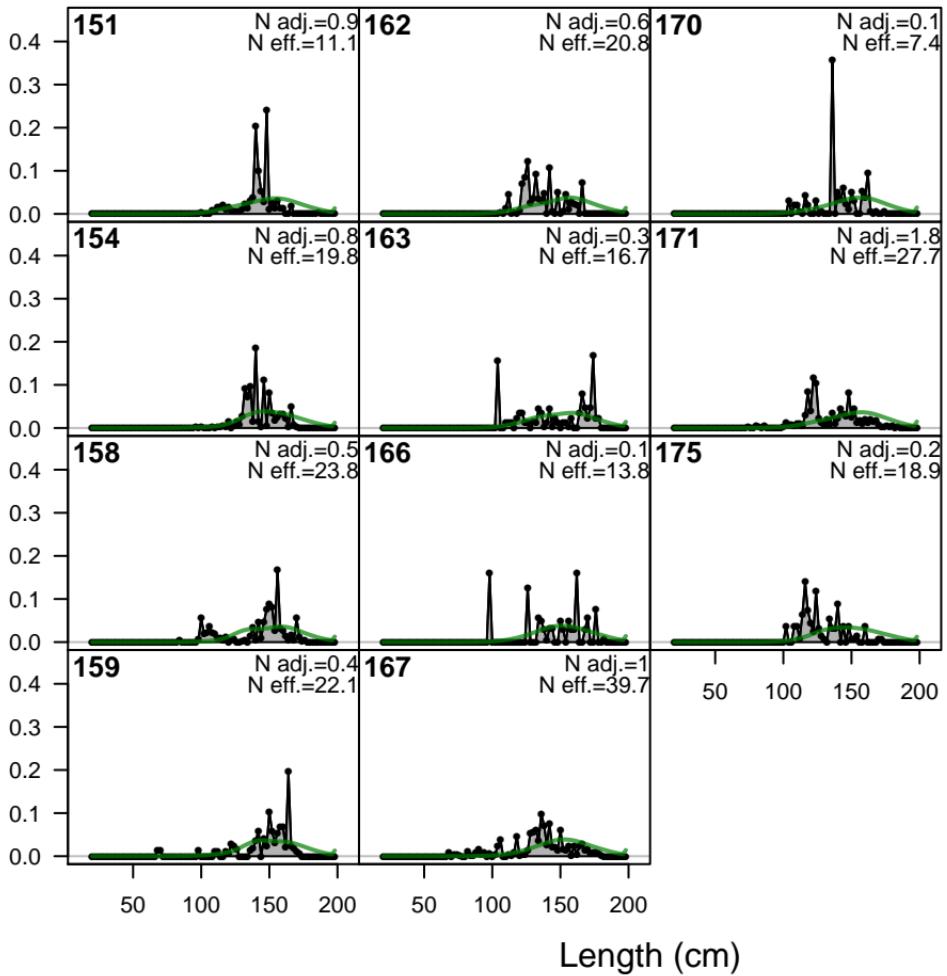
Proportion

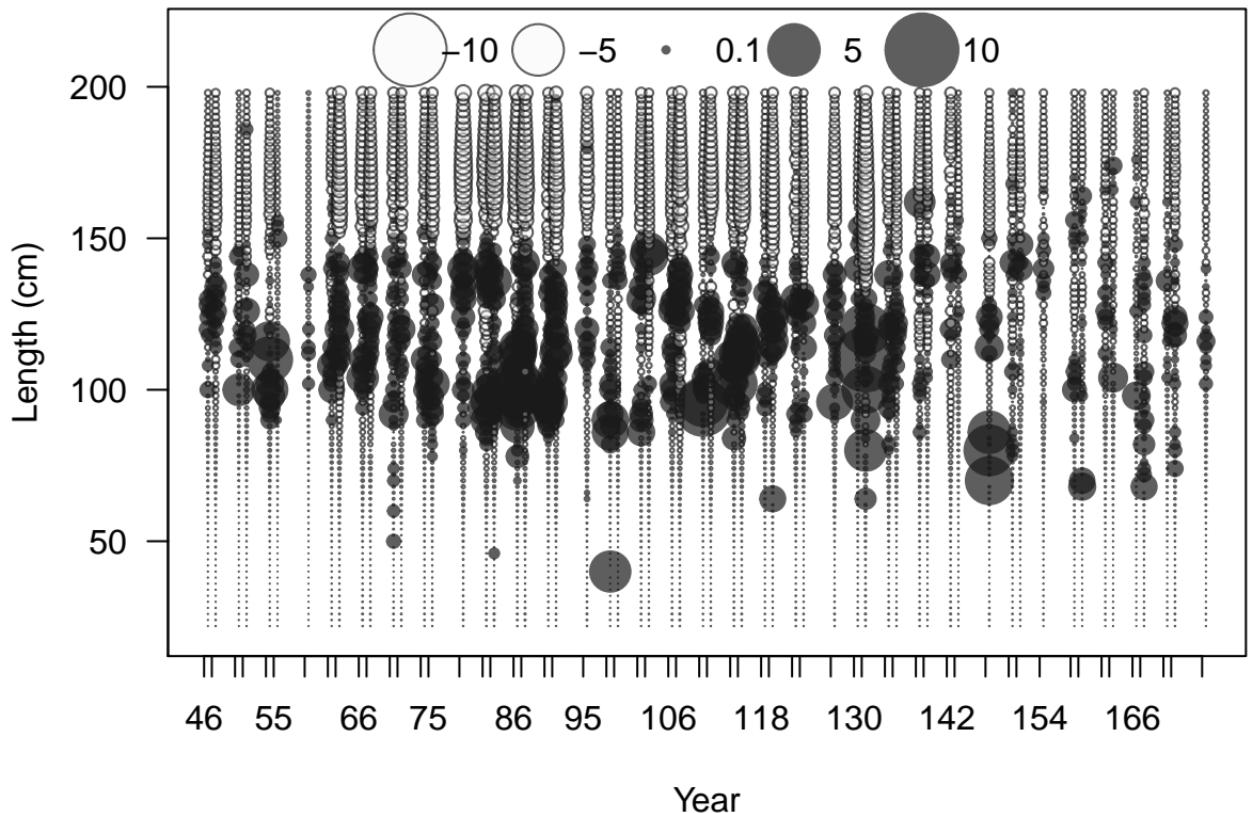


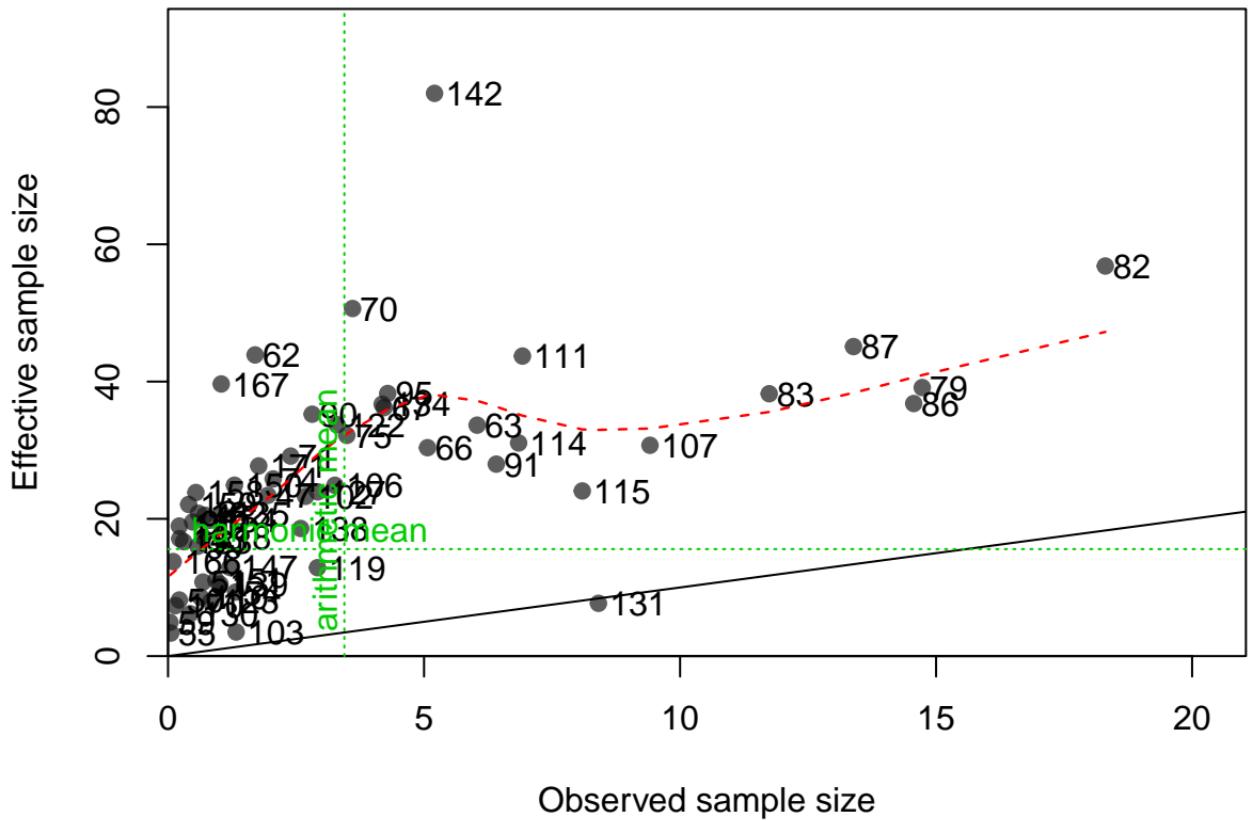
Proportion



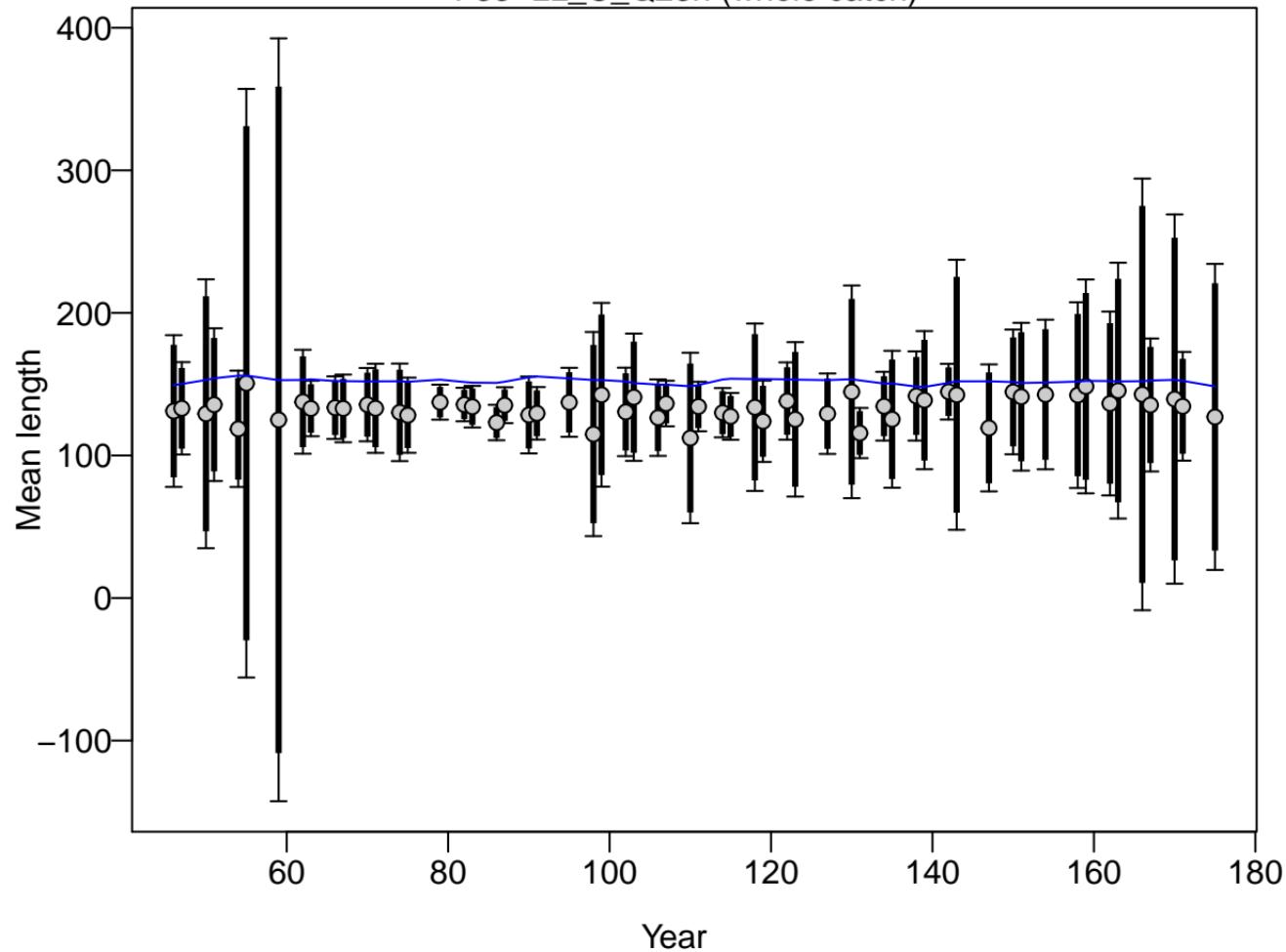
Proportion



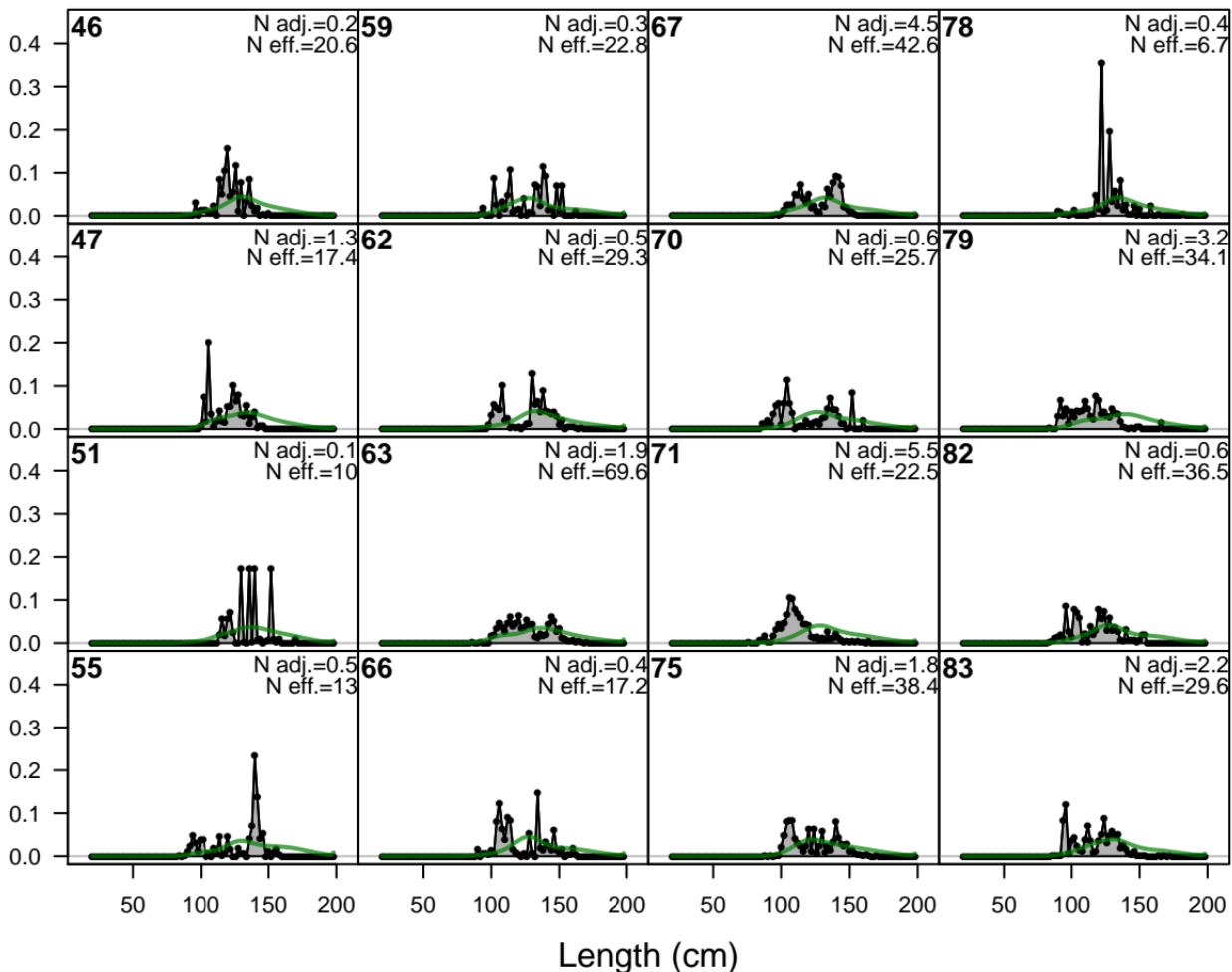




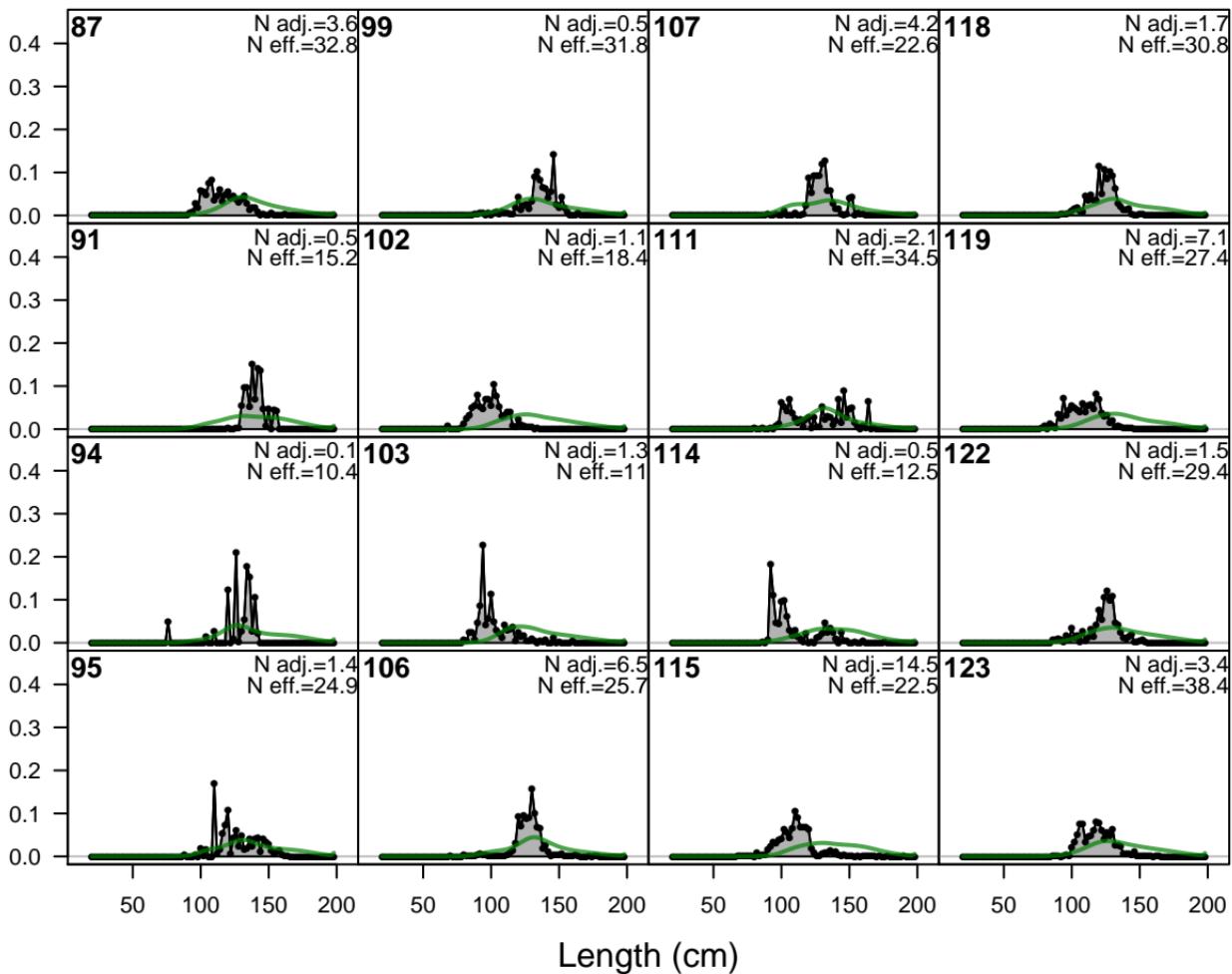
# F33-LL\_C\_Q23n (whole catch)



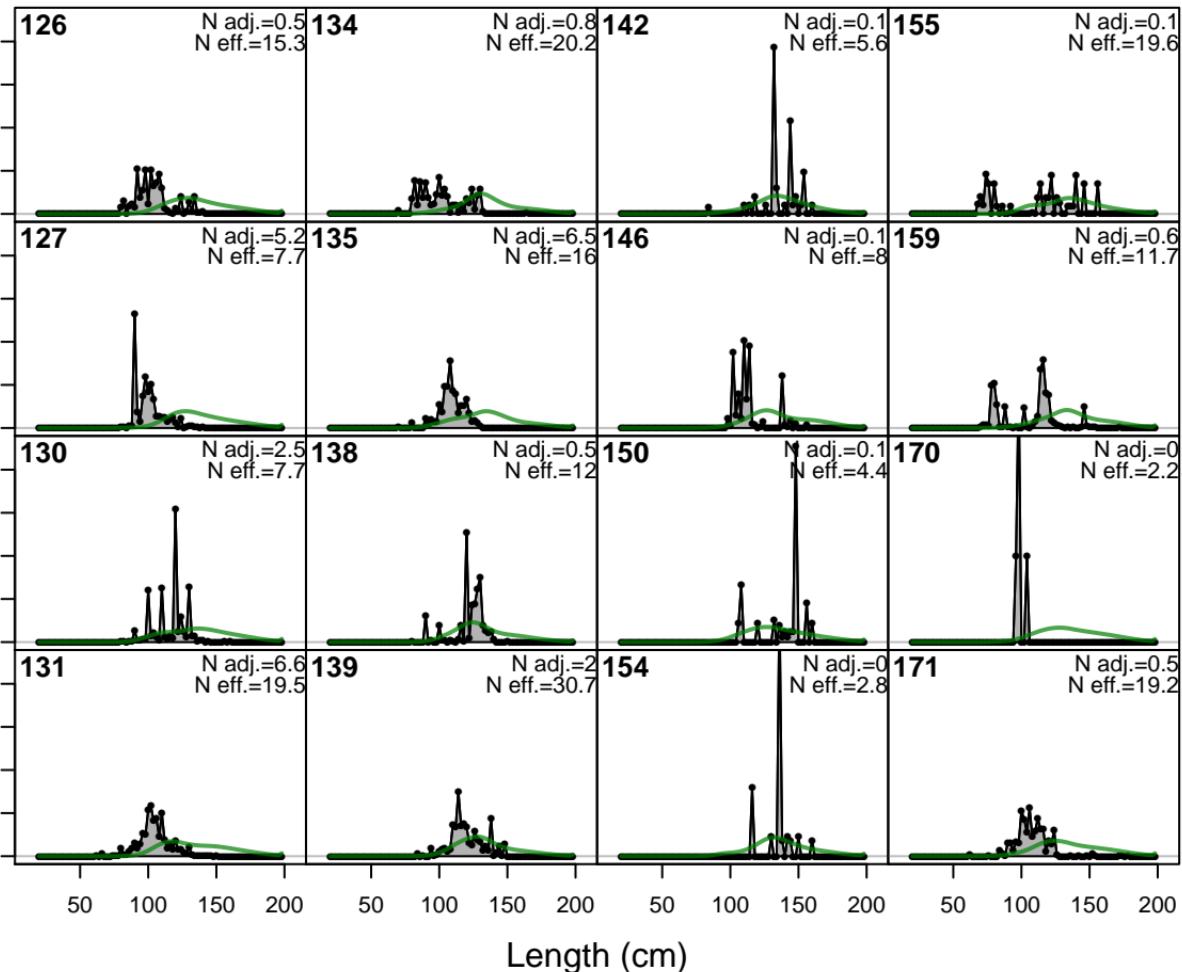
Proportion



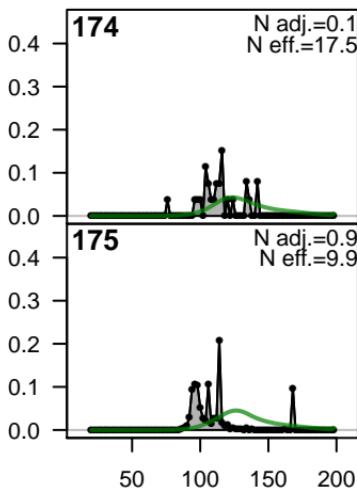
Proportion



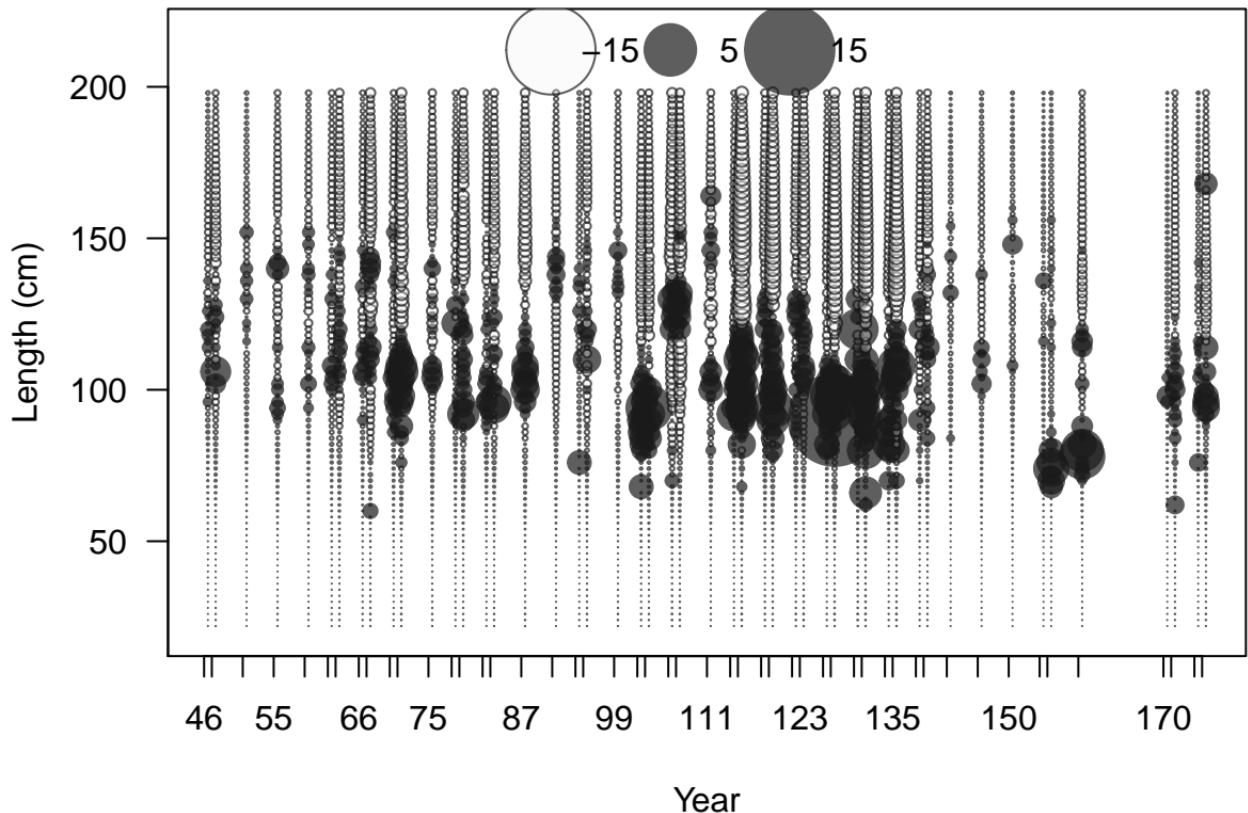
Proportion

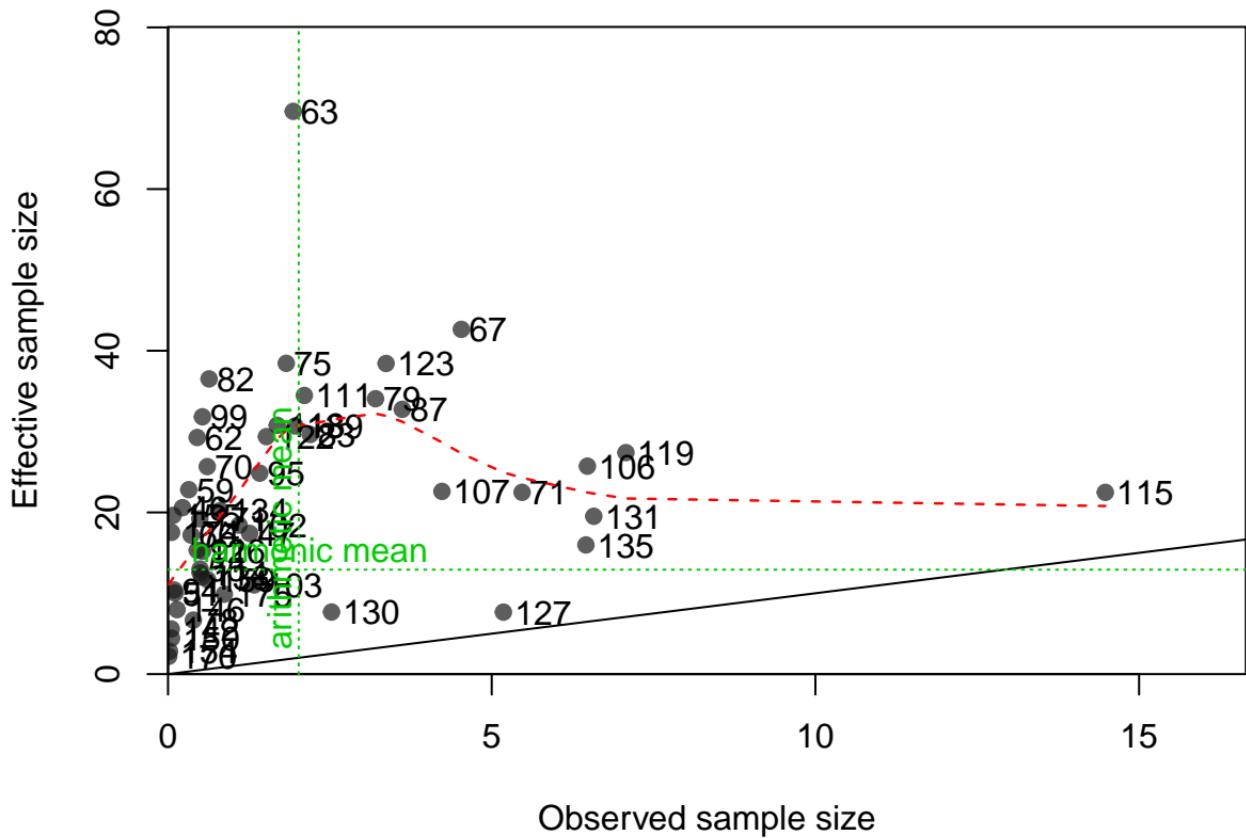


Proportion

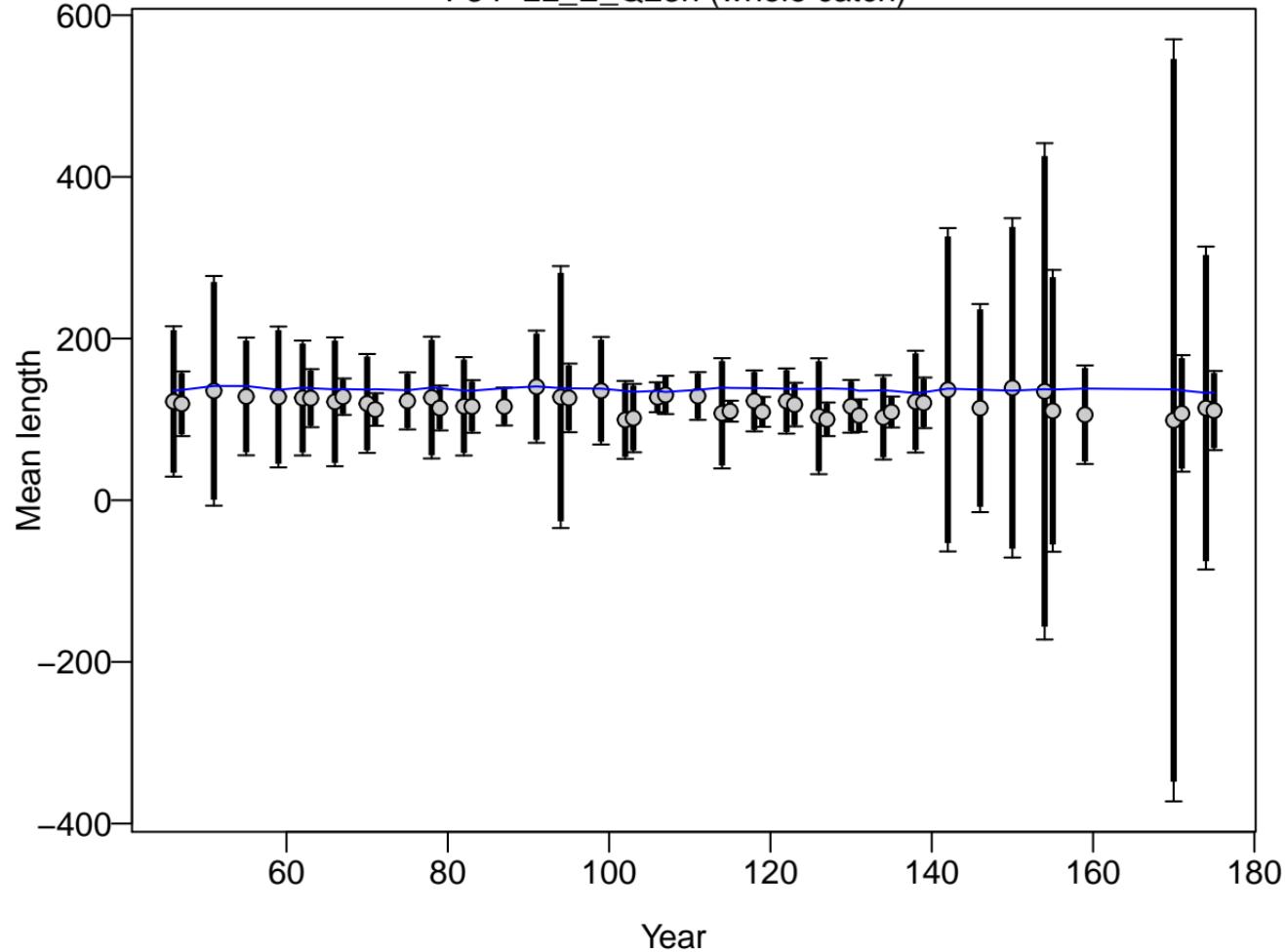


Length (cm)

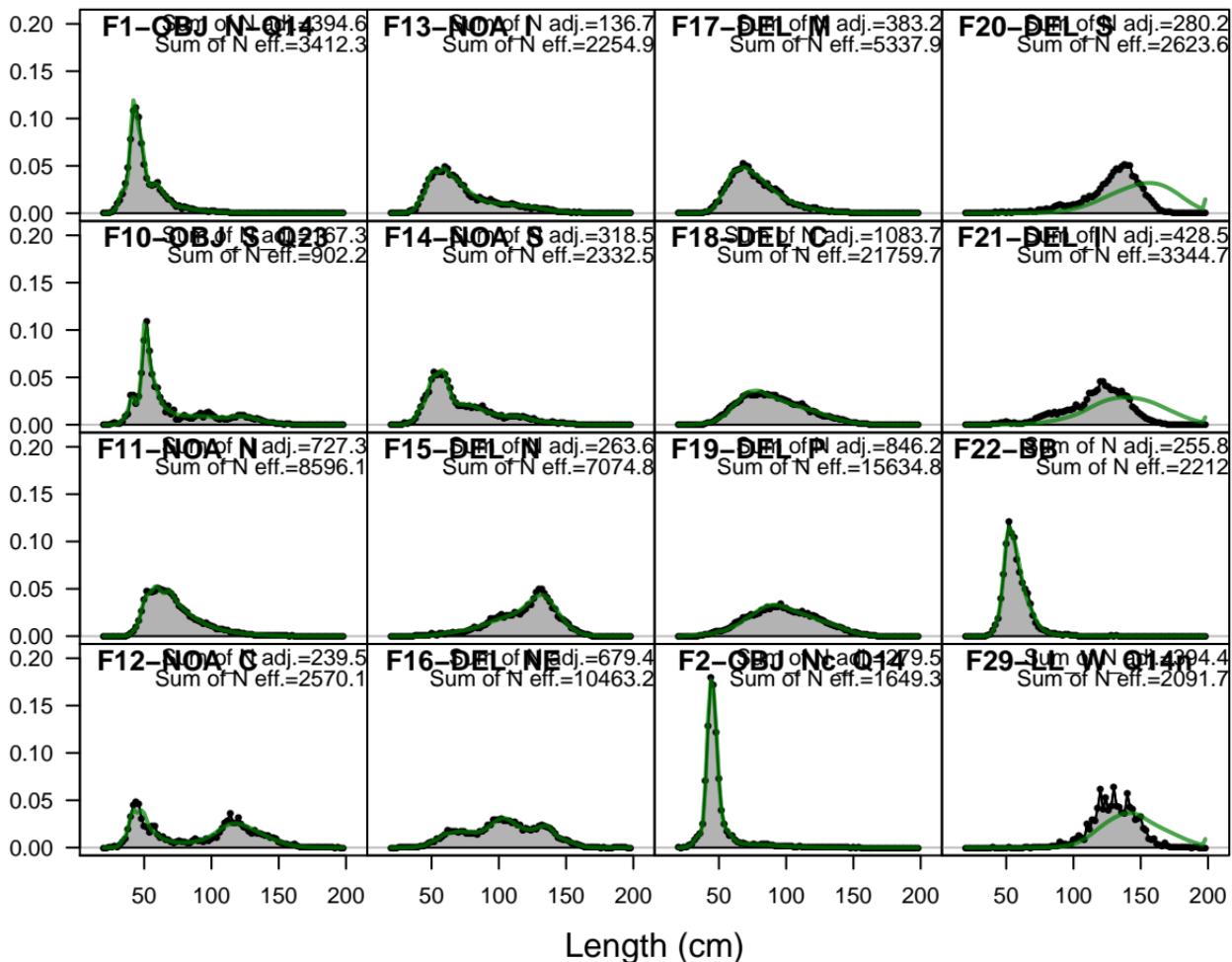




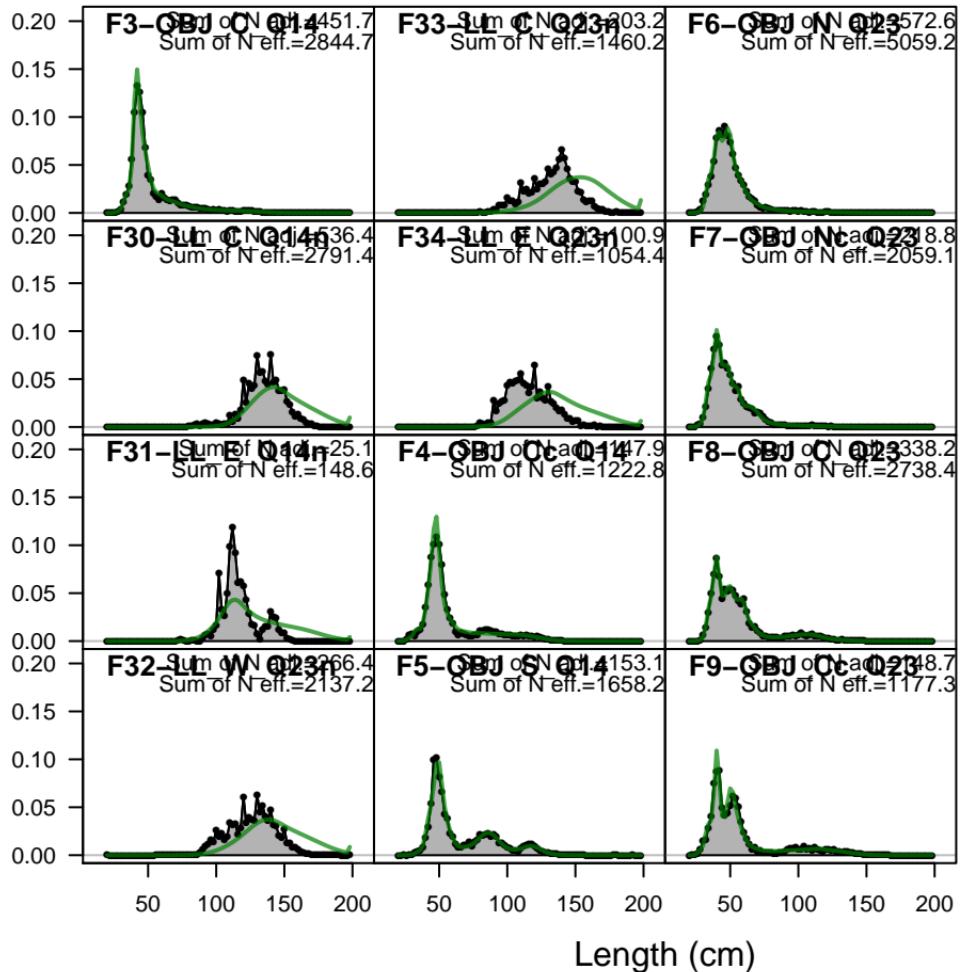
### F34-LL\_E\_Q23n (whole catch)

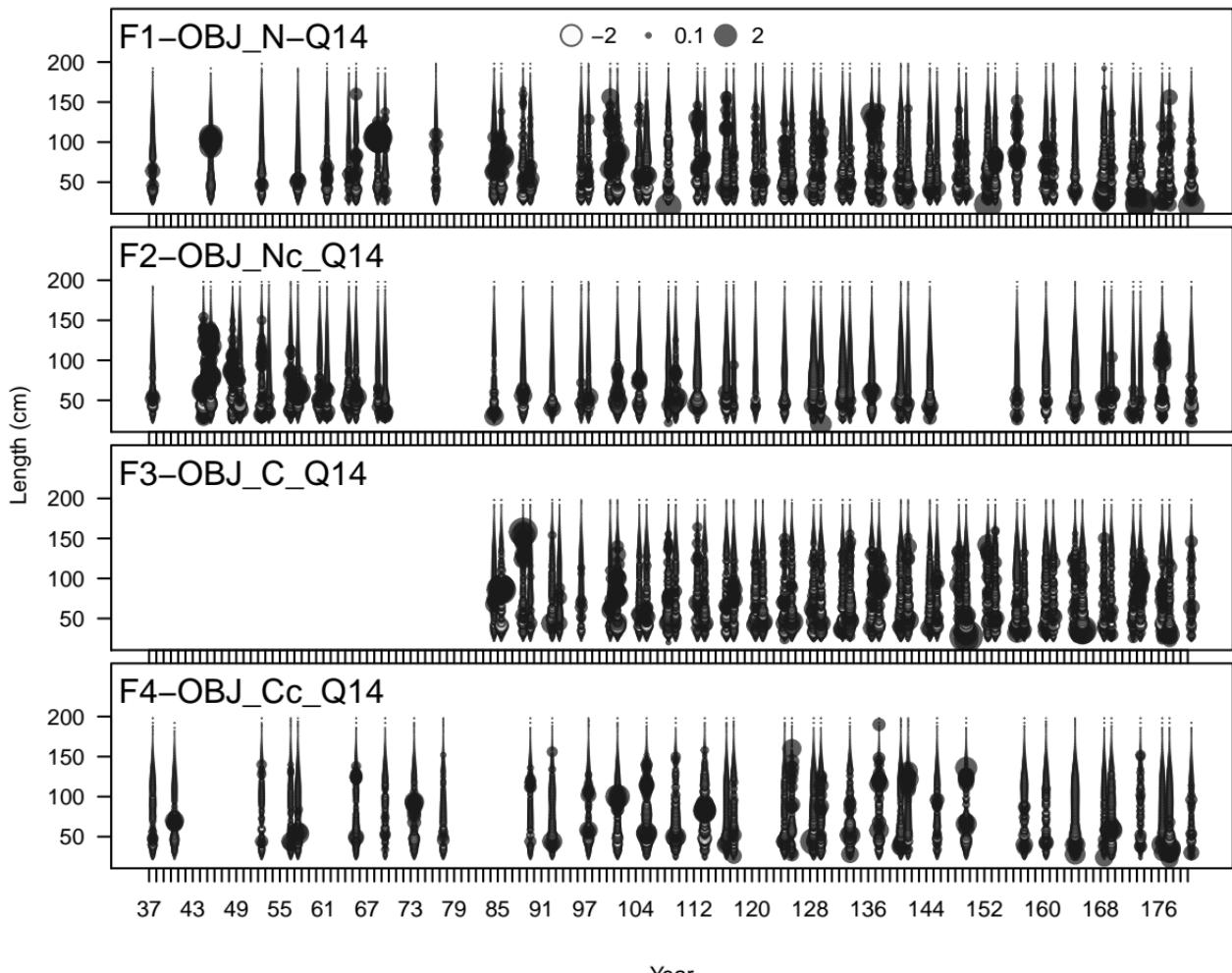


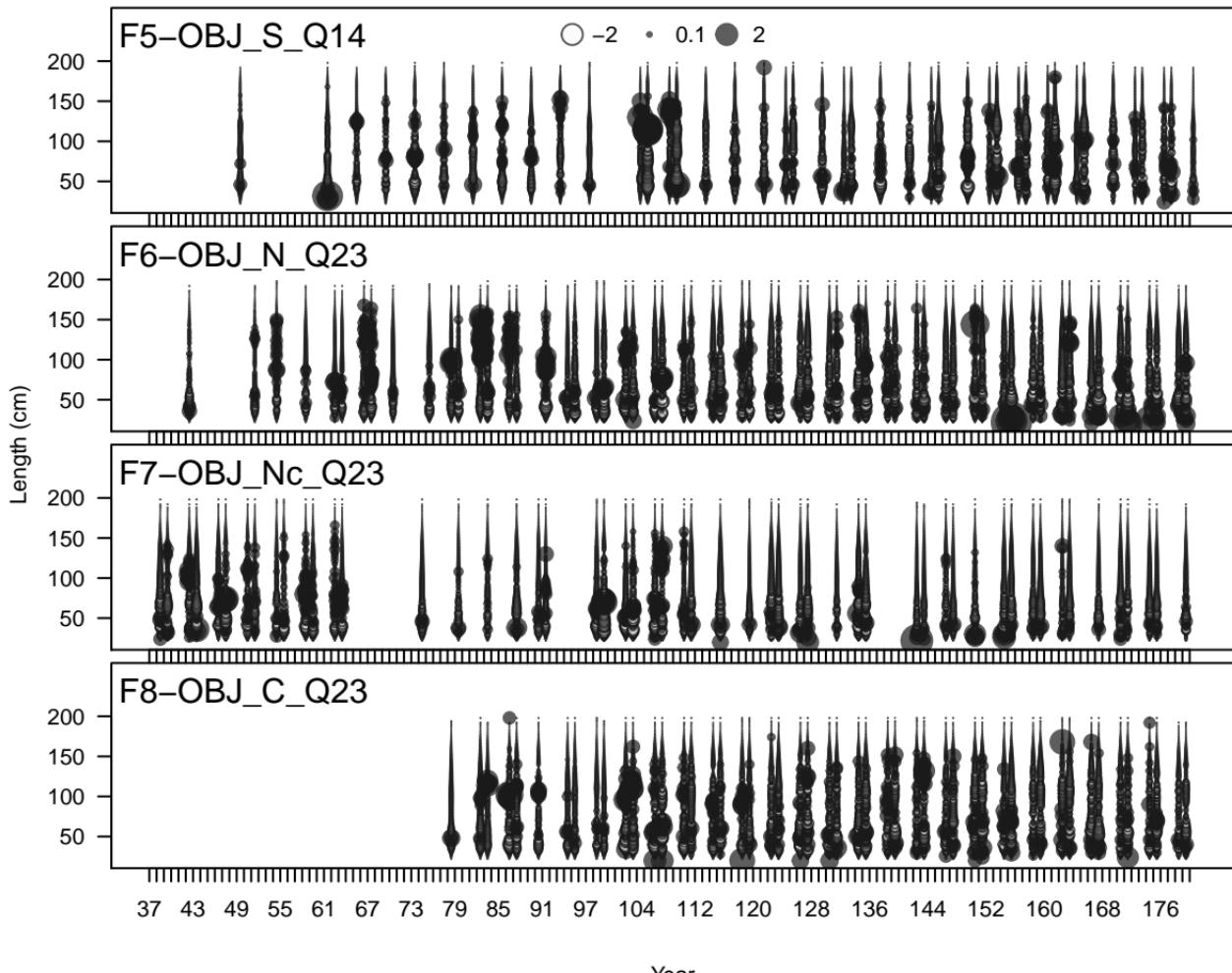
Proportion

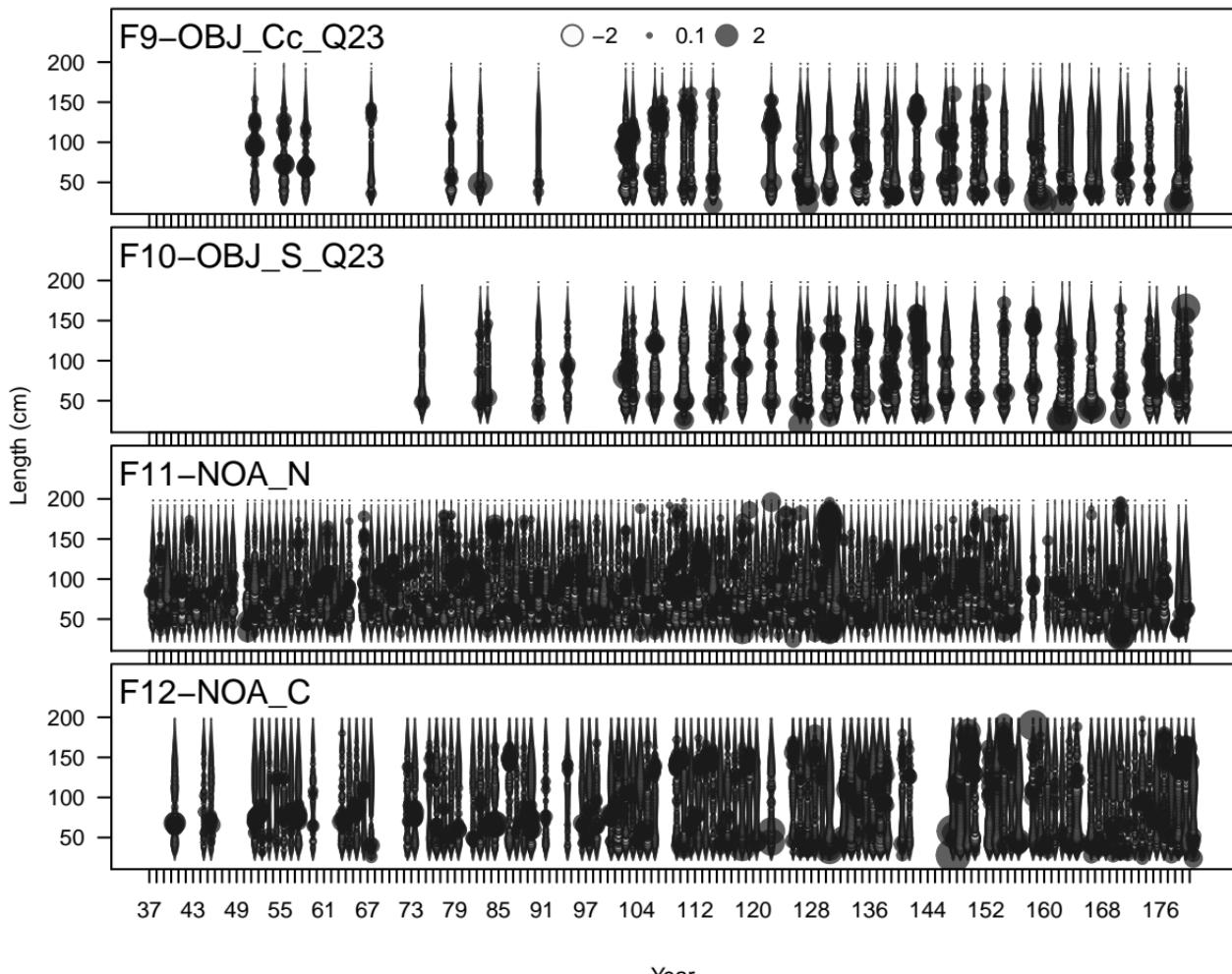


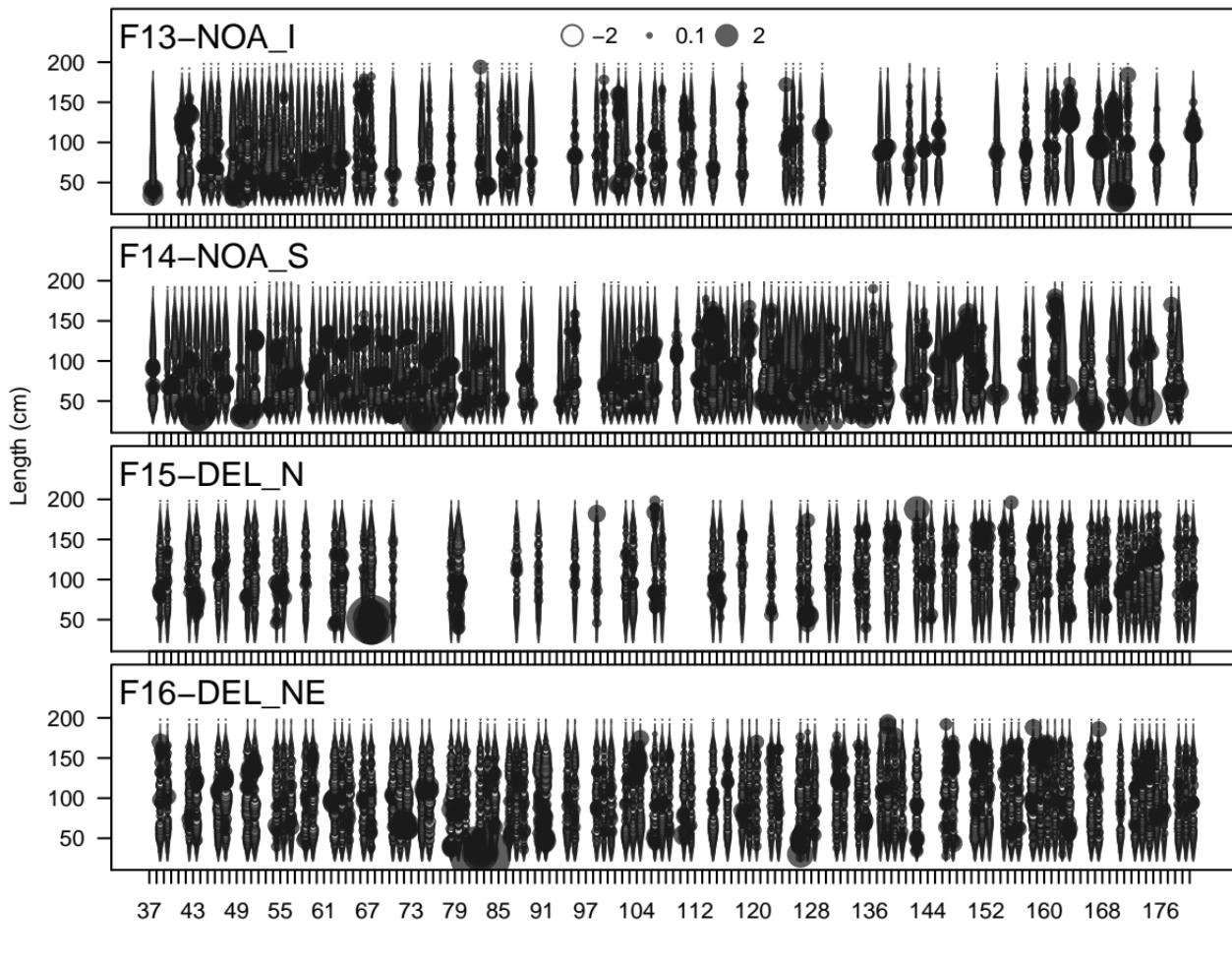
Proportion

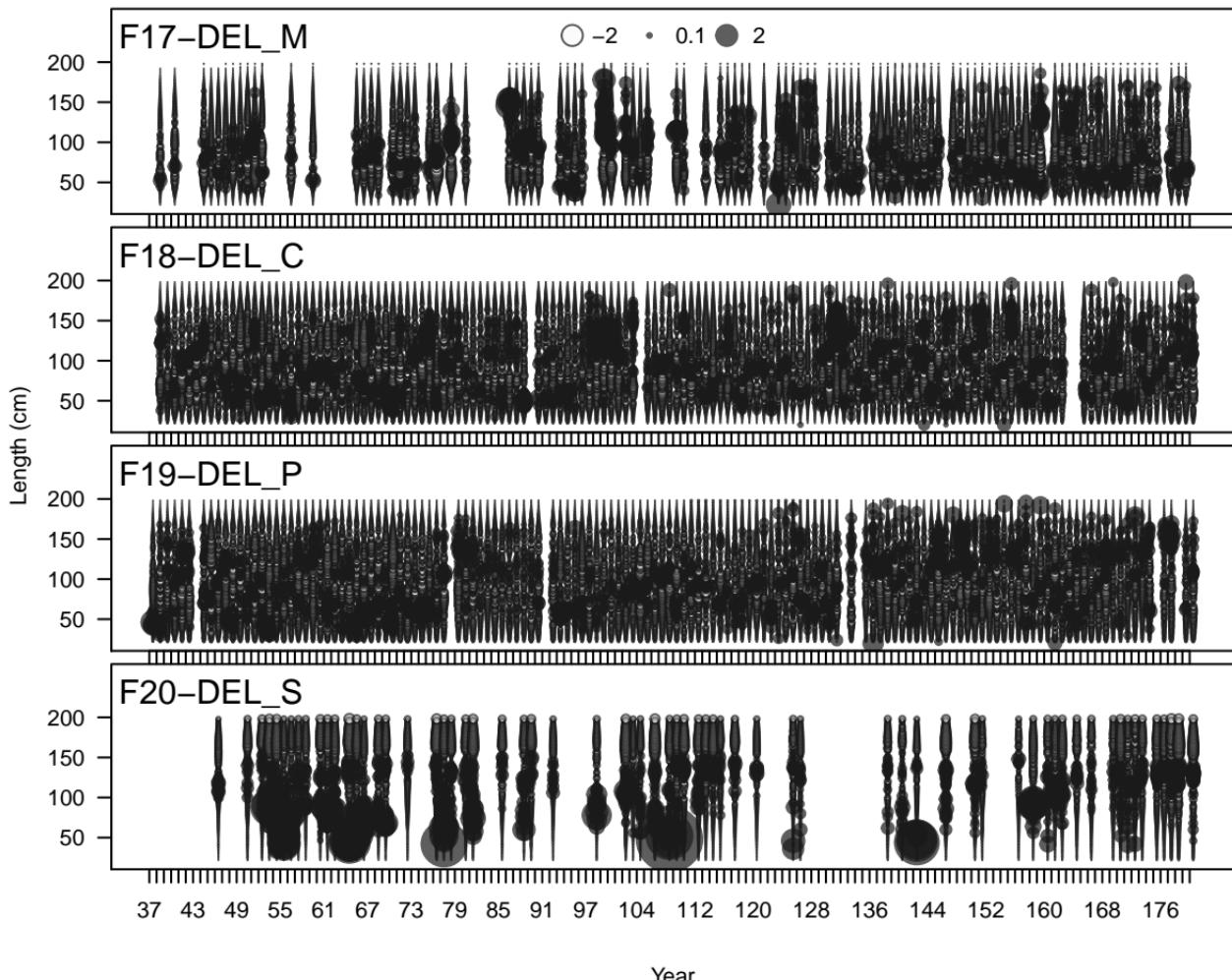


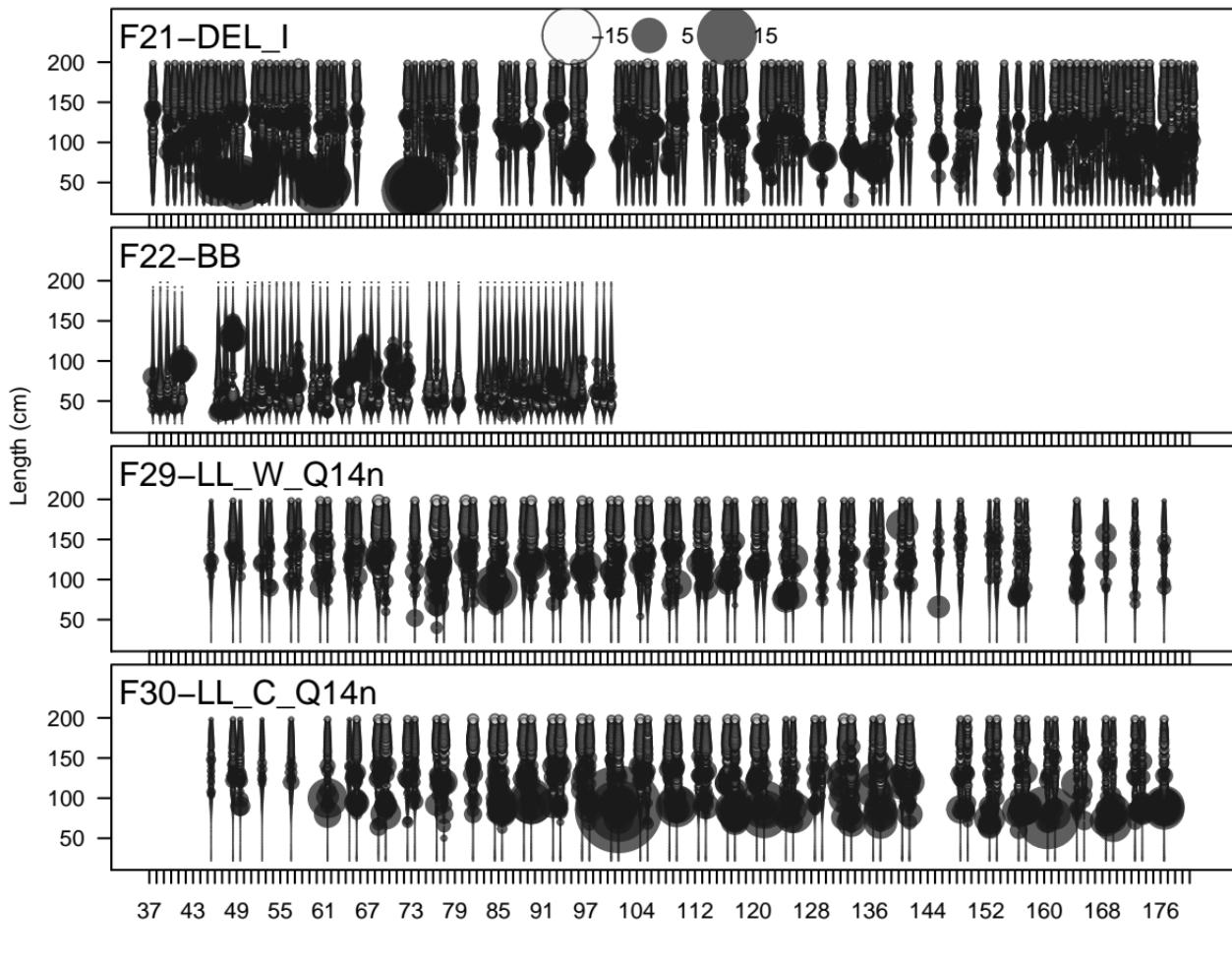


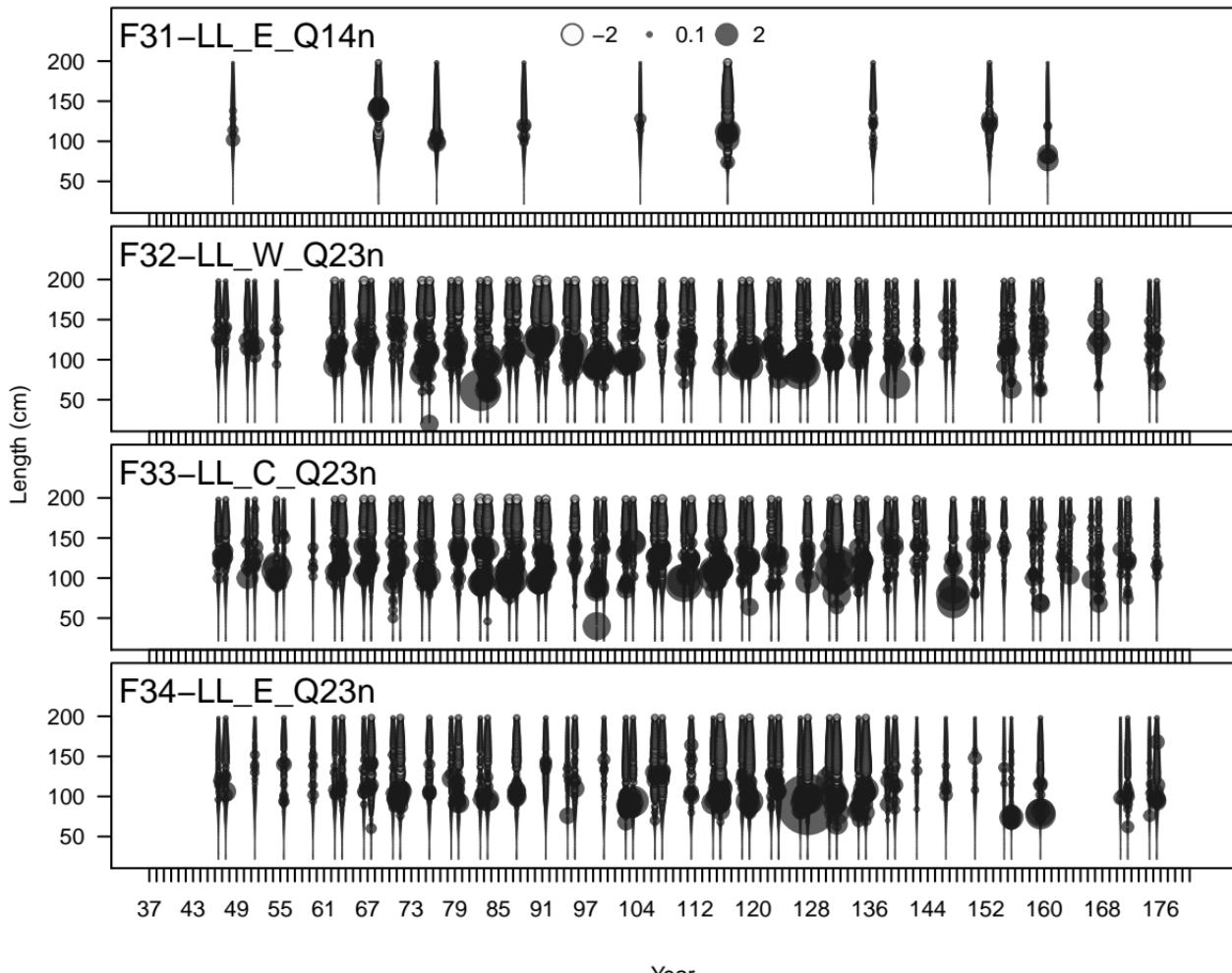




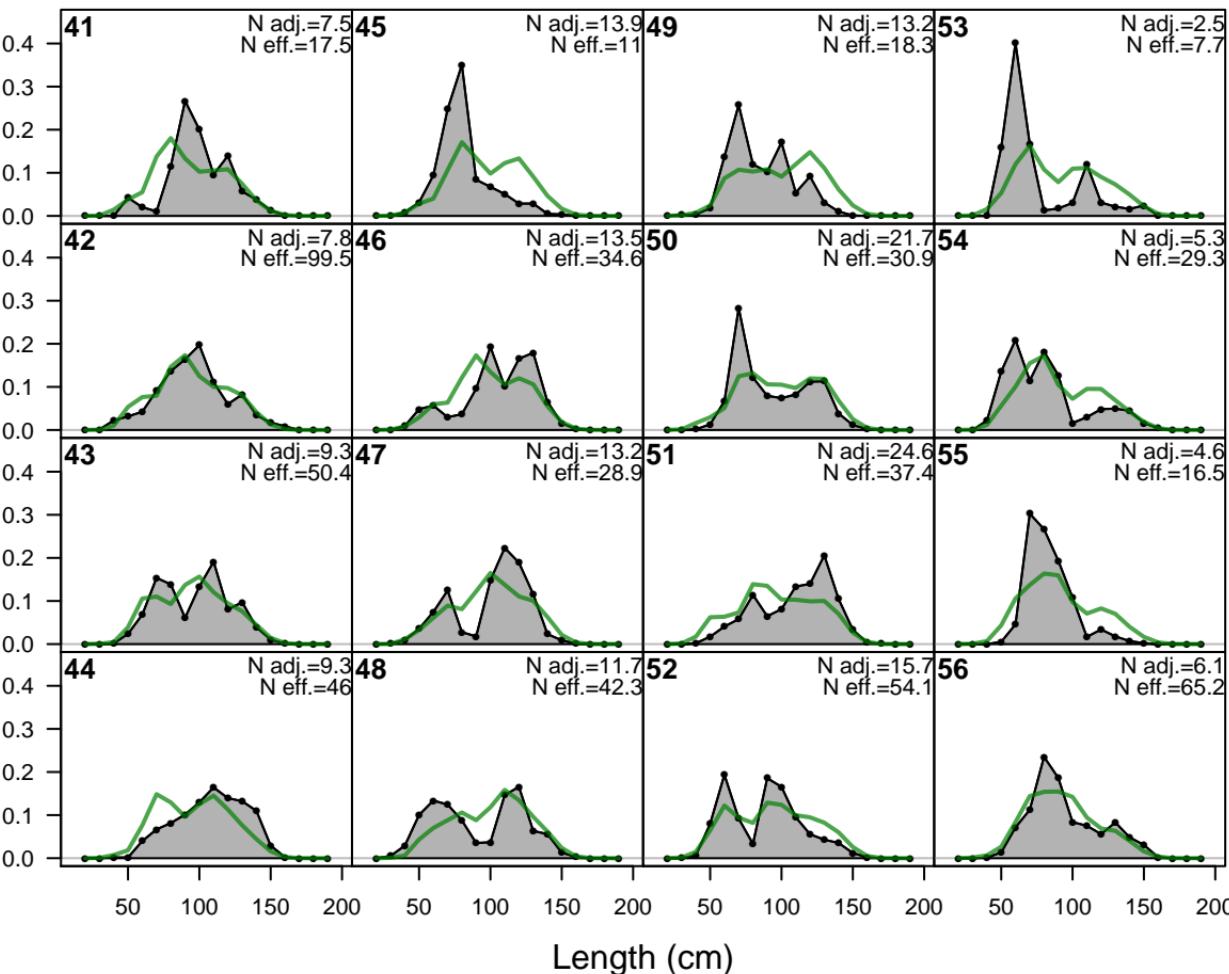




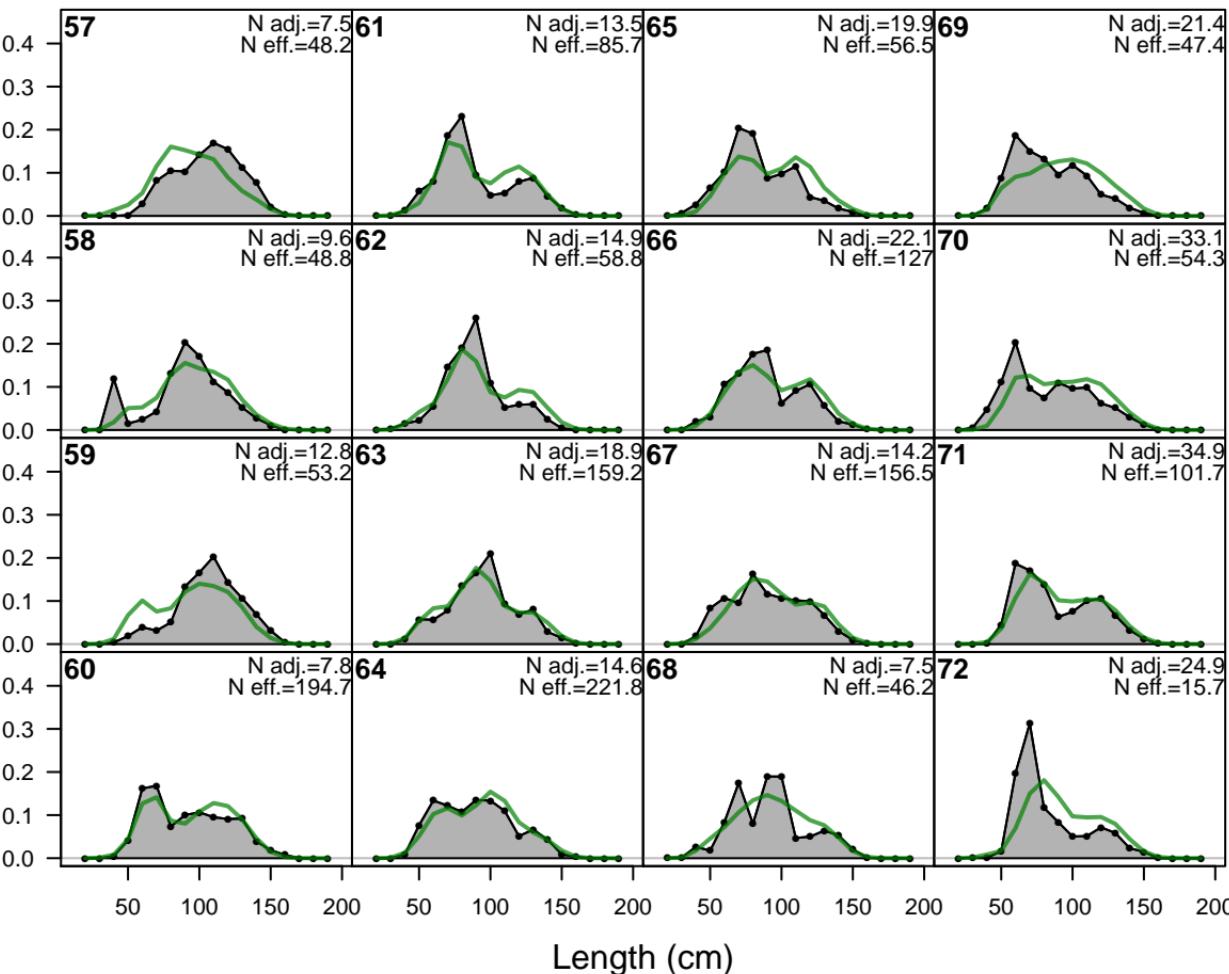




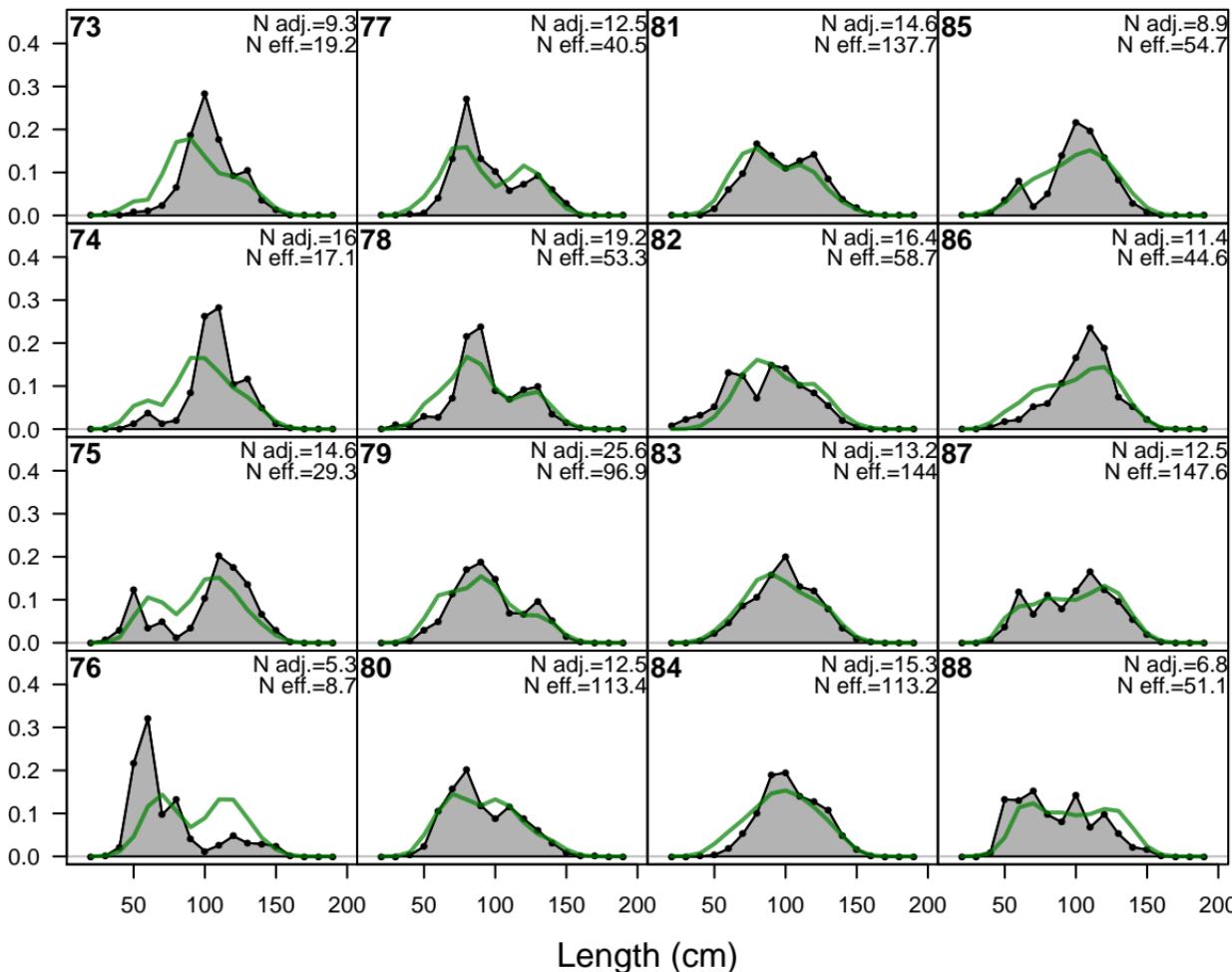
Proportion



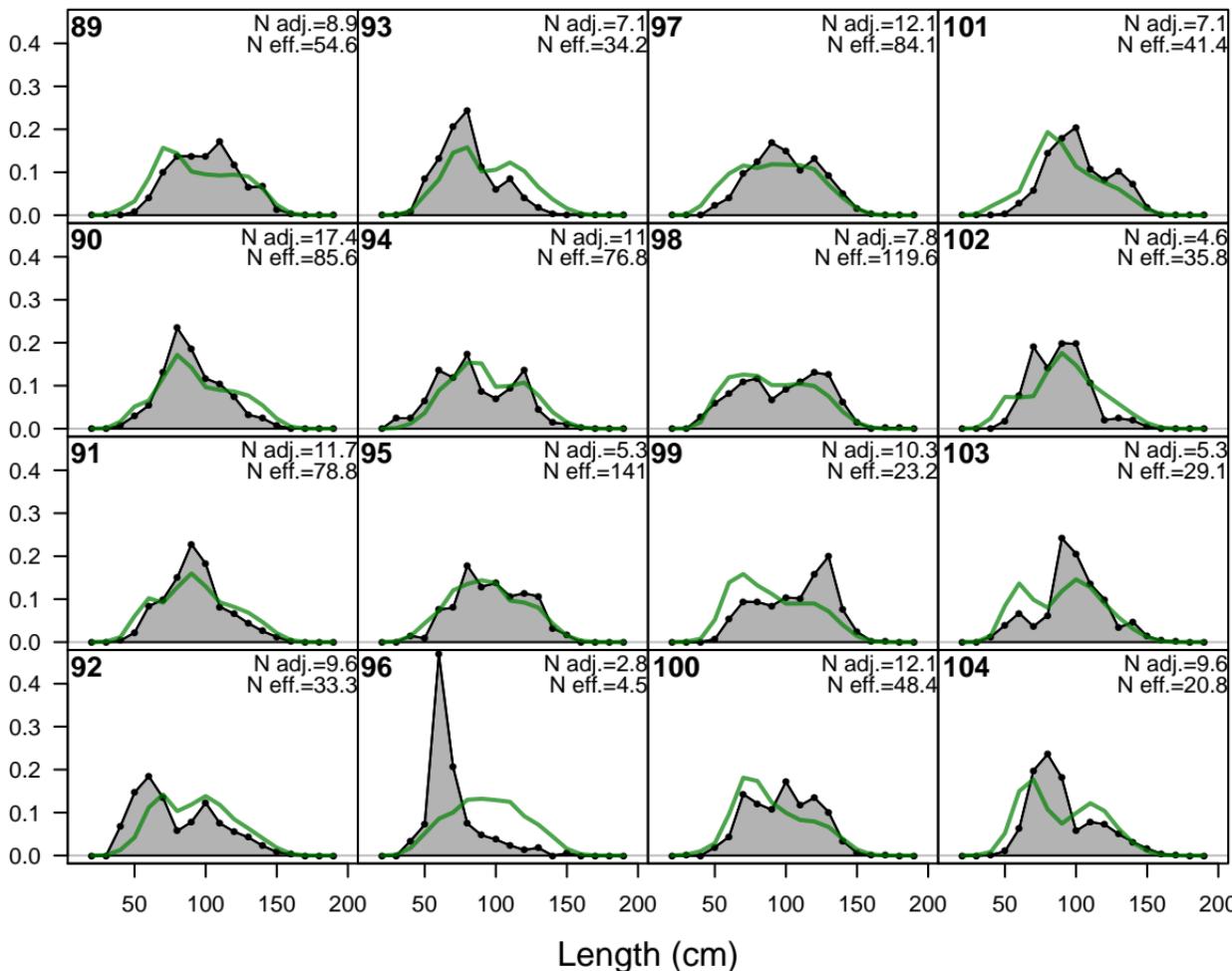
Proportion



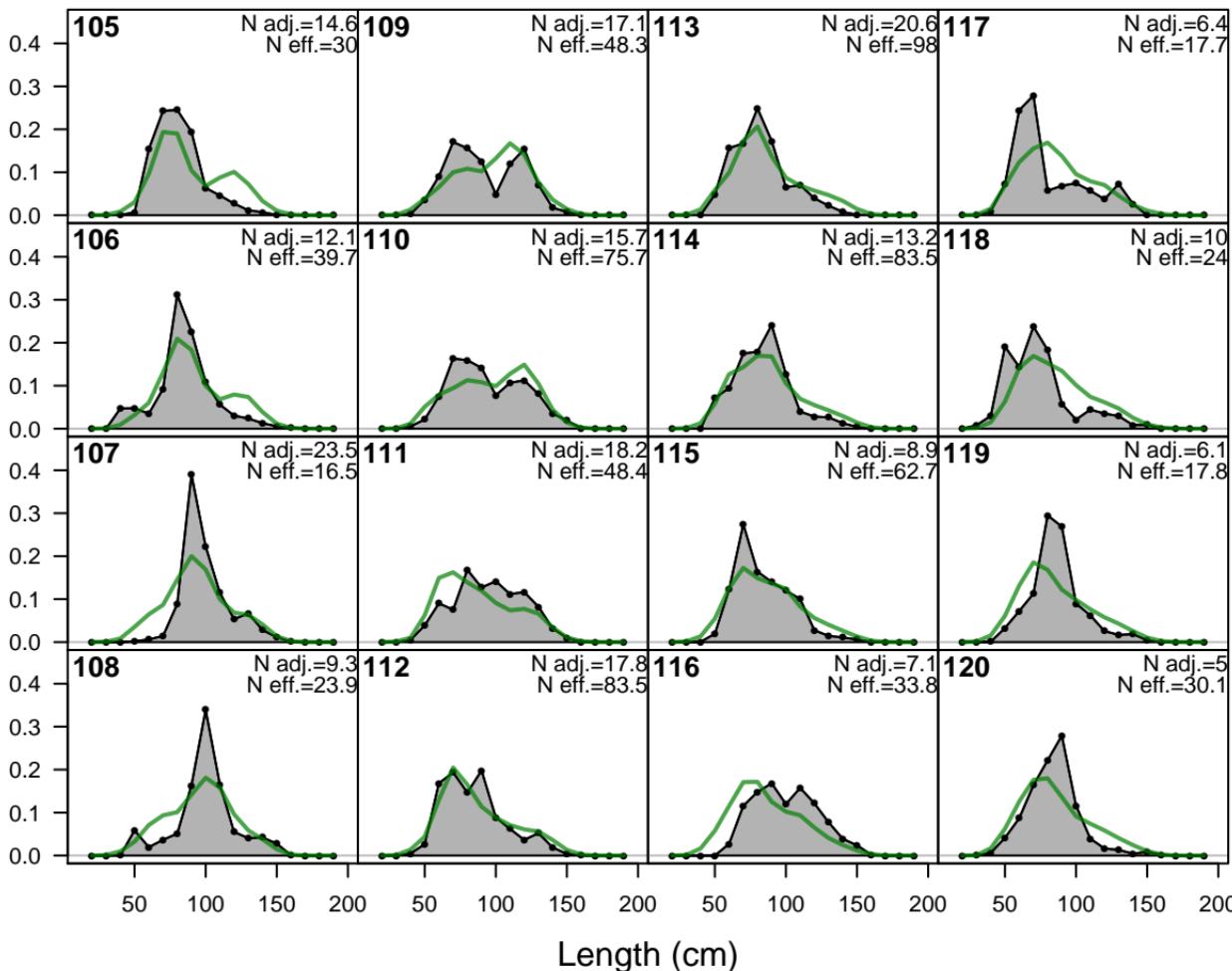
Proportion



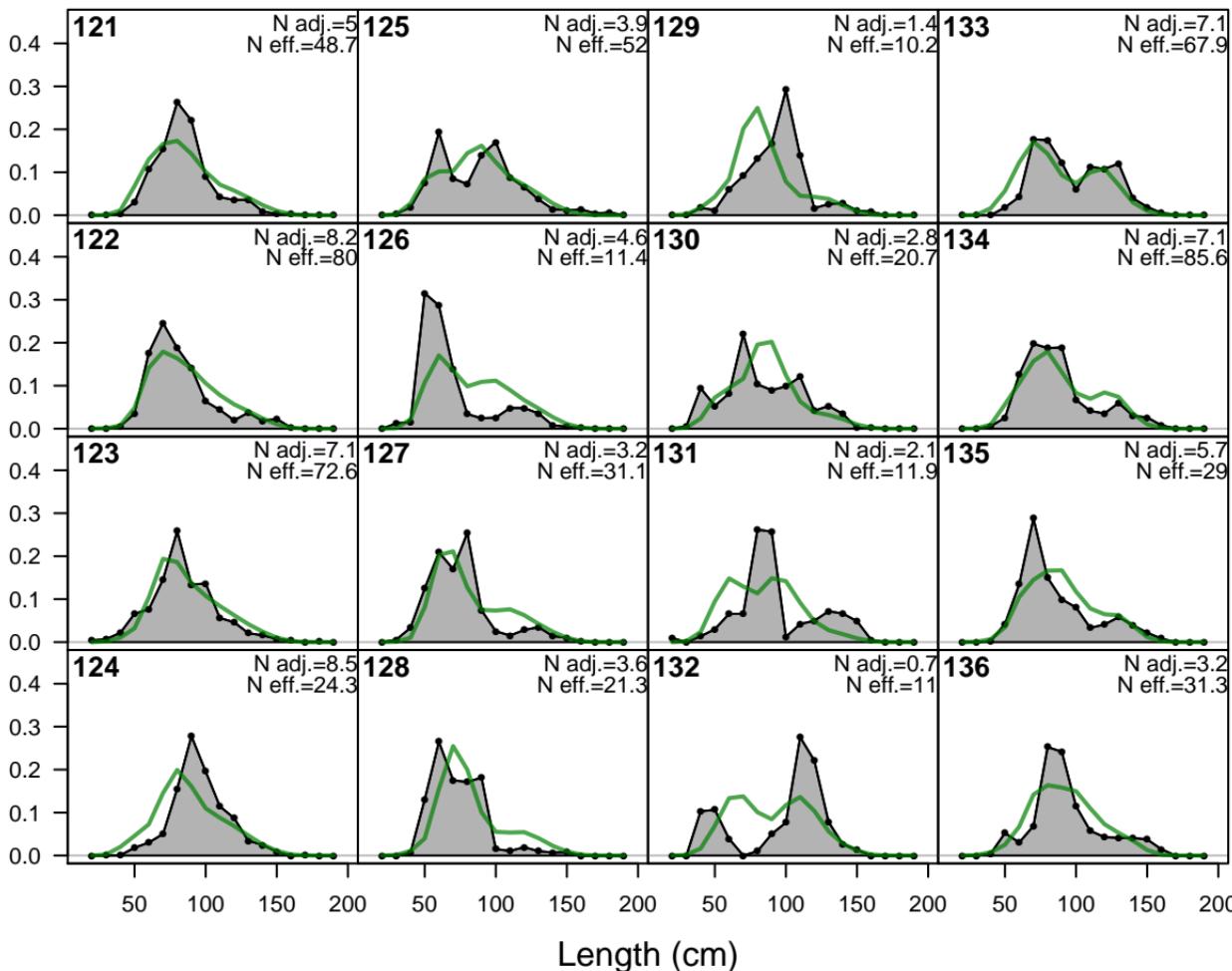
Proportion



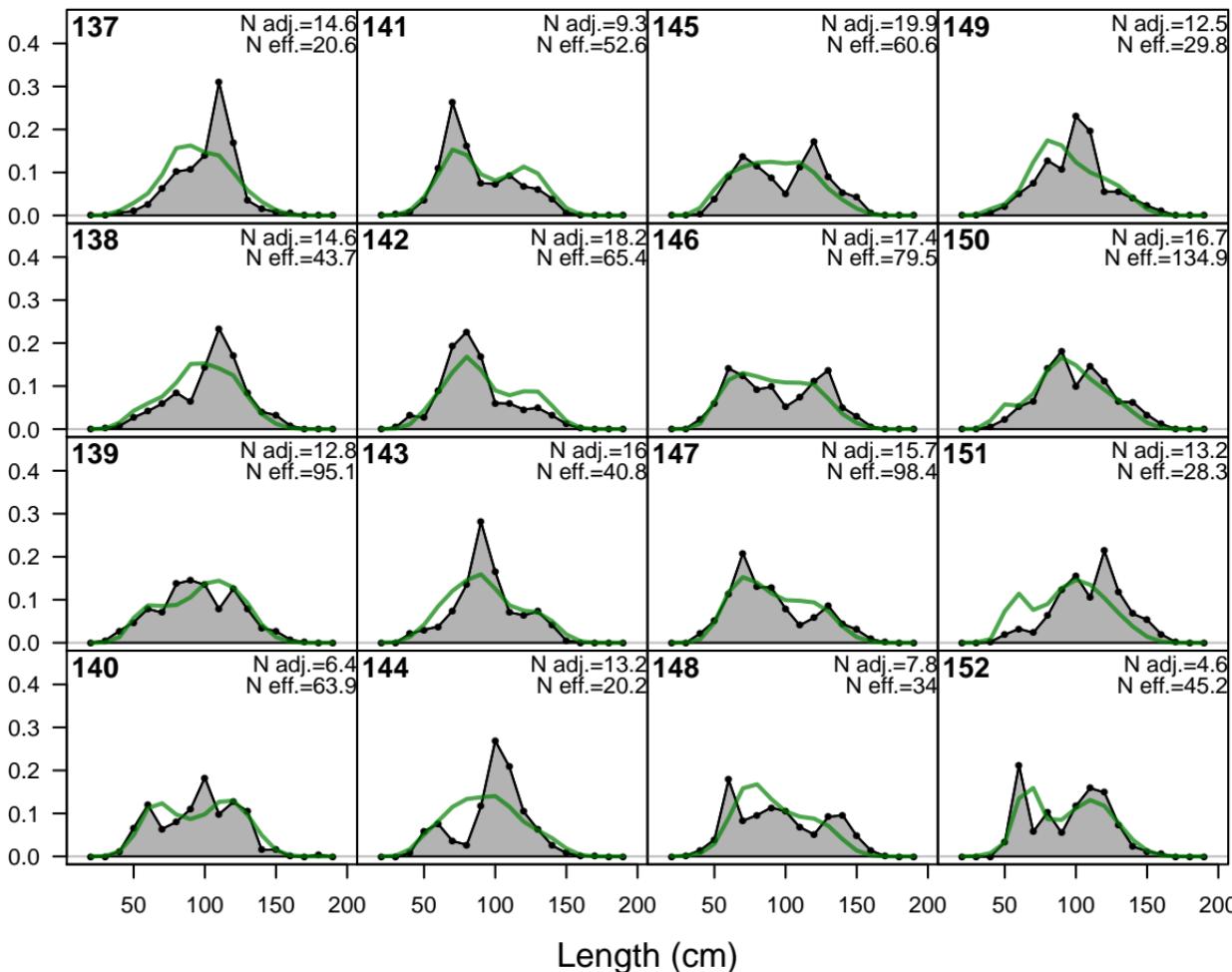
Proportion



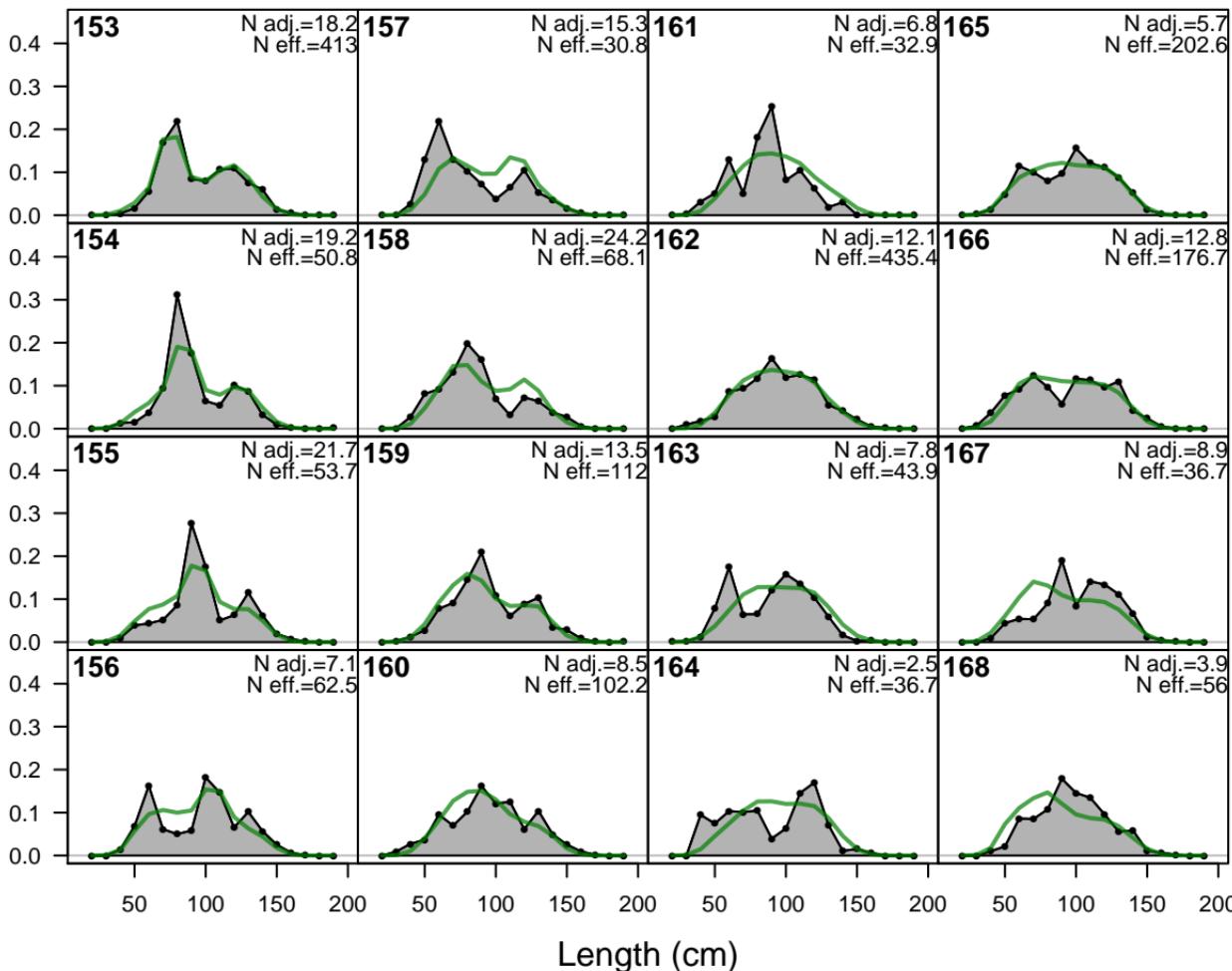
Proportion



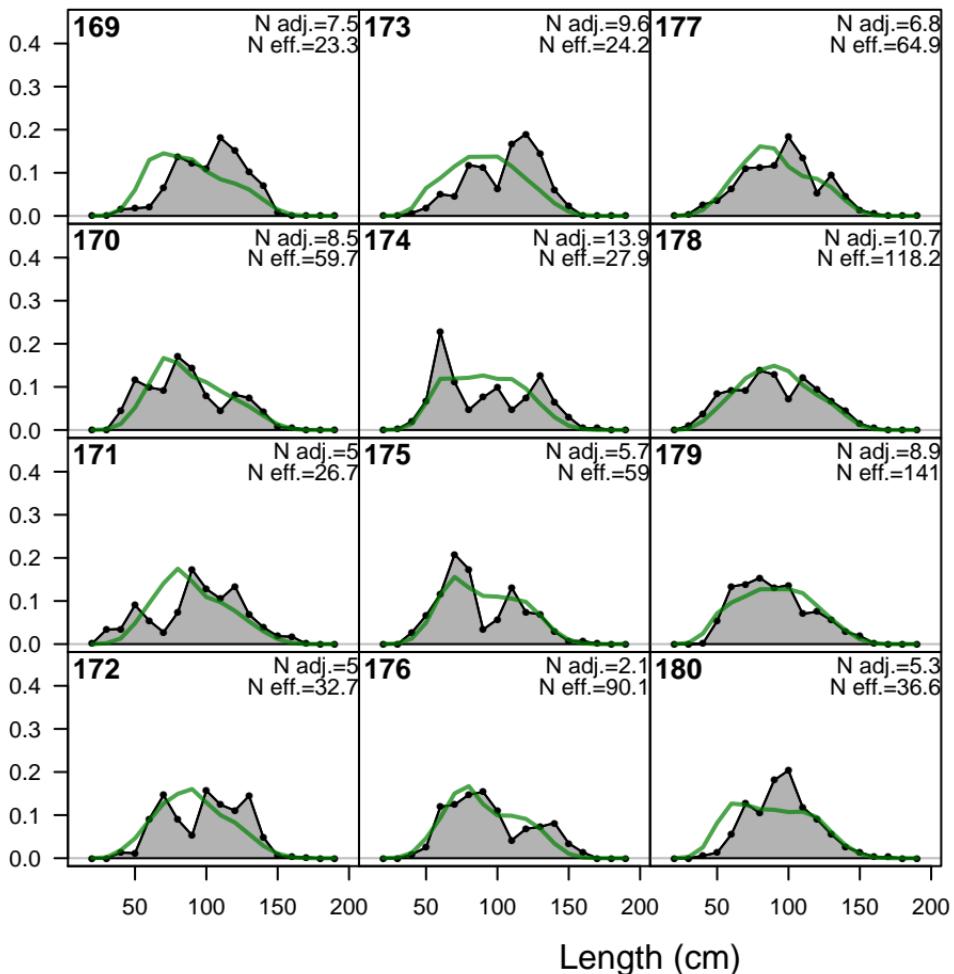
Proportion

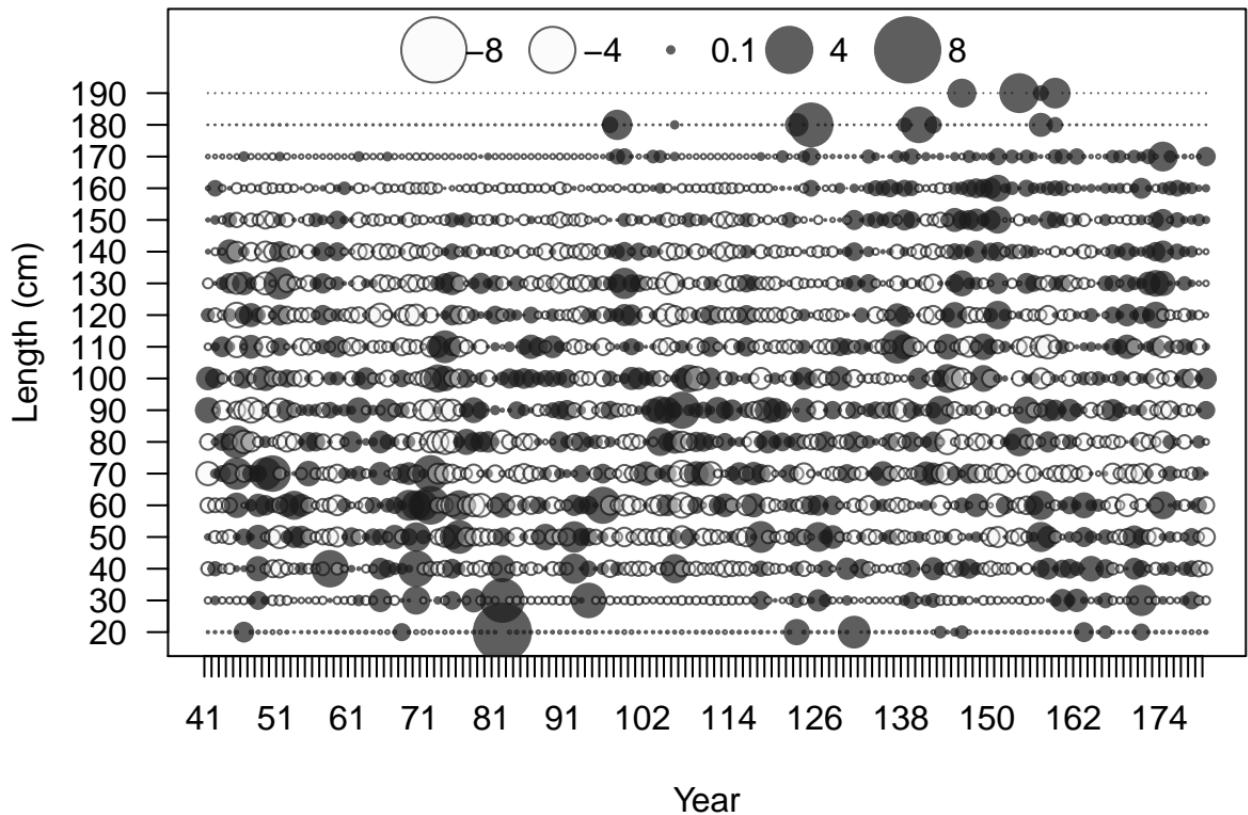


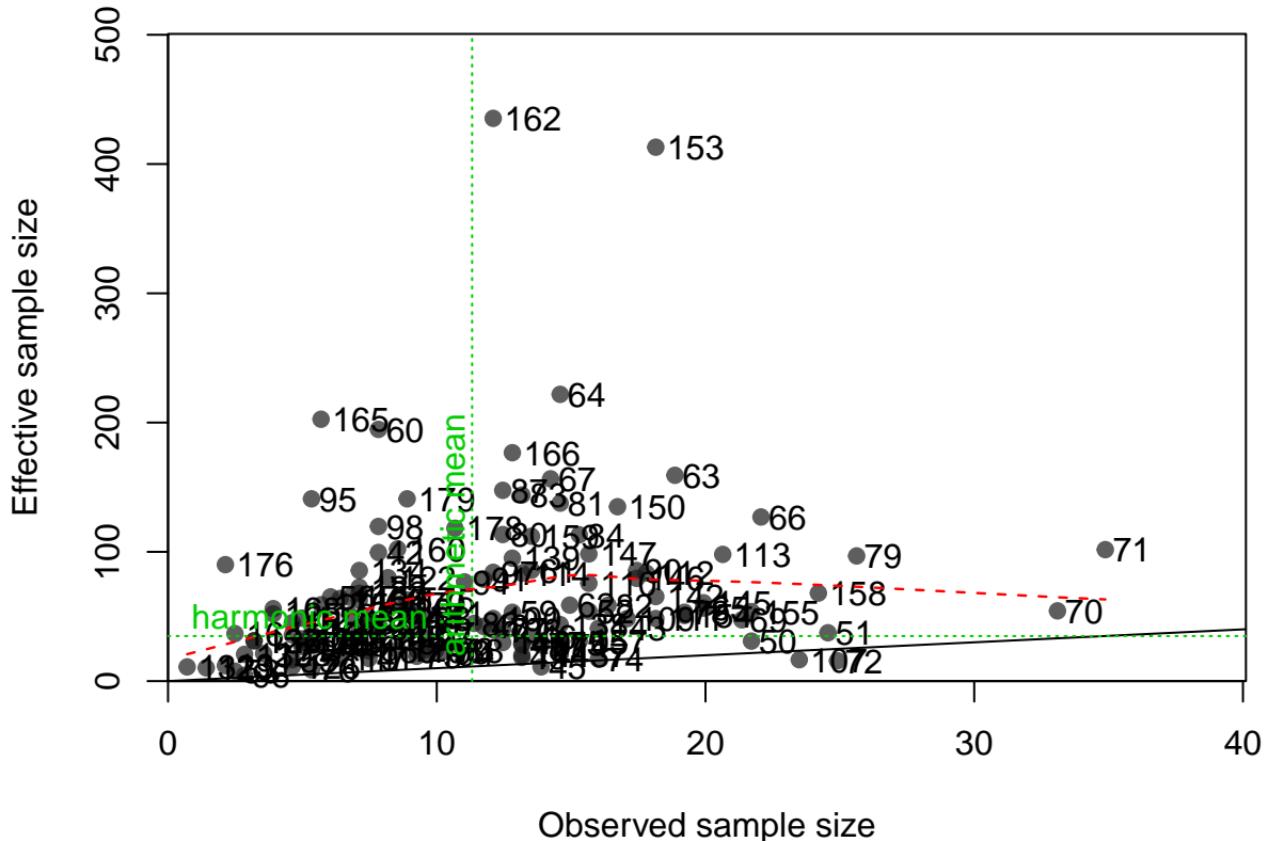
Proportion



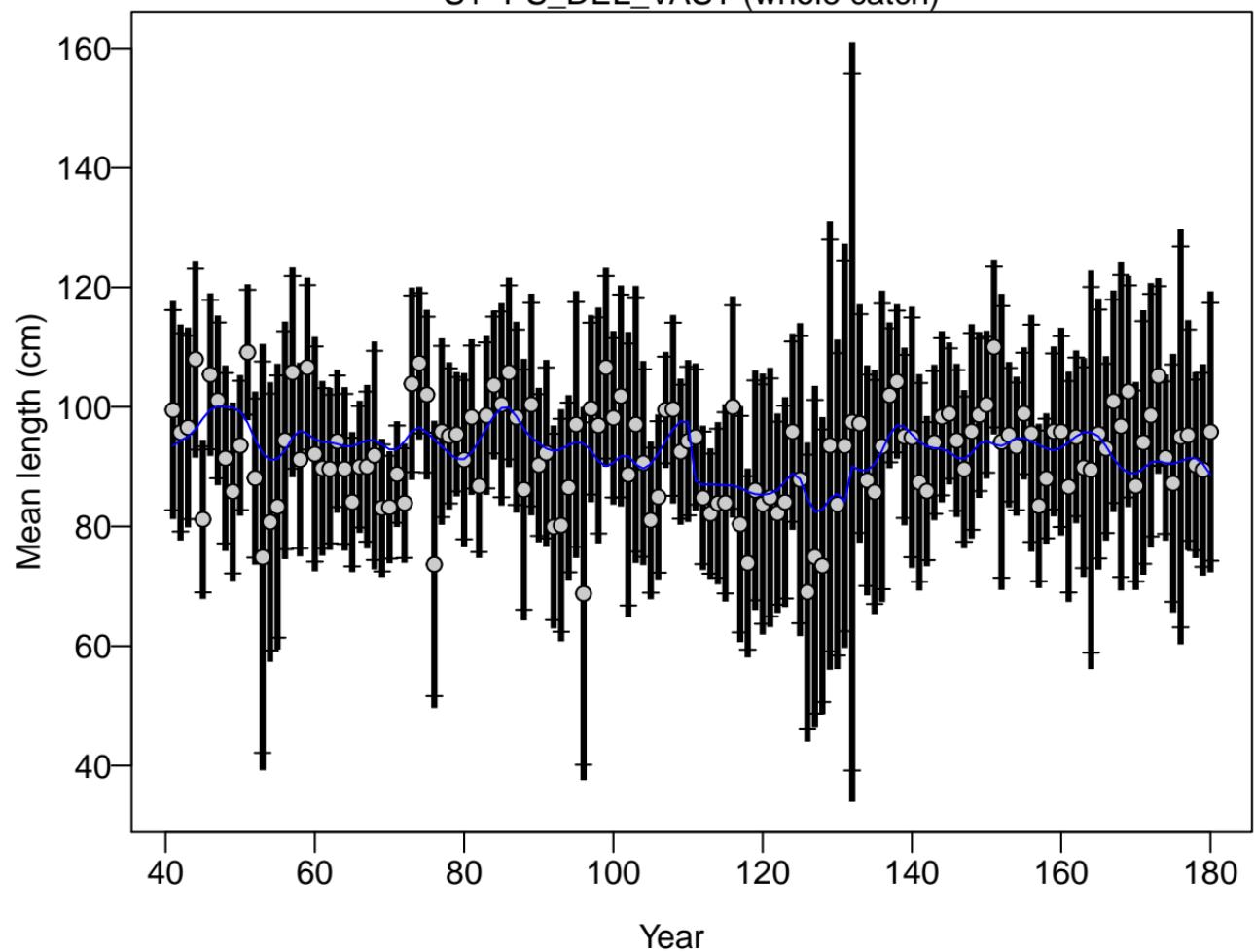
Proportion





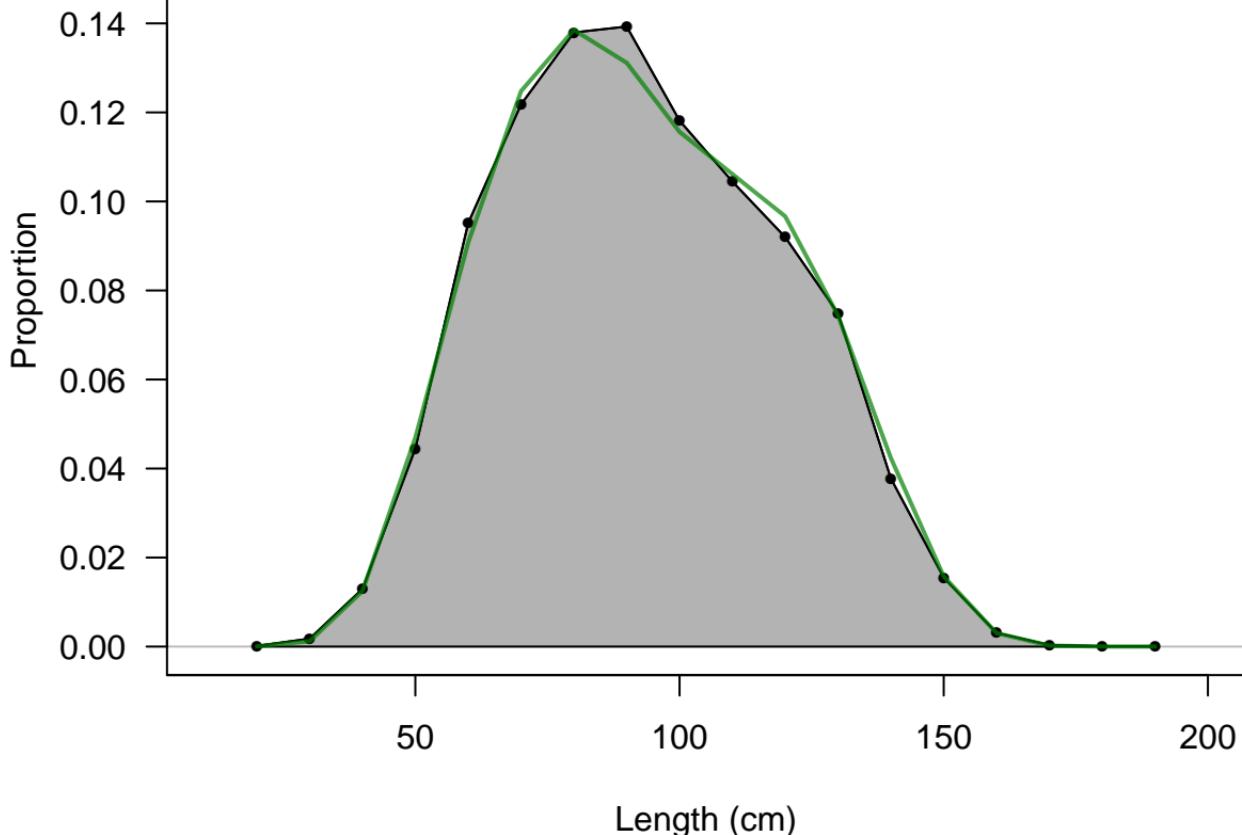


# S1-PS\_DEL\_VAST (whole catch)

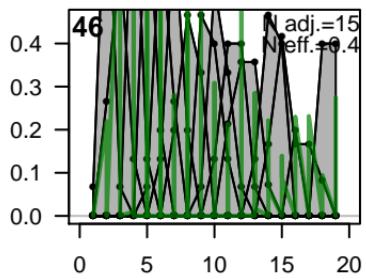


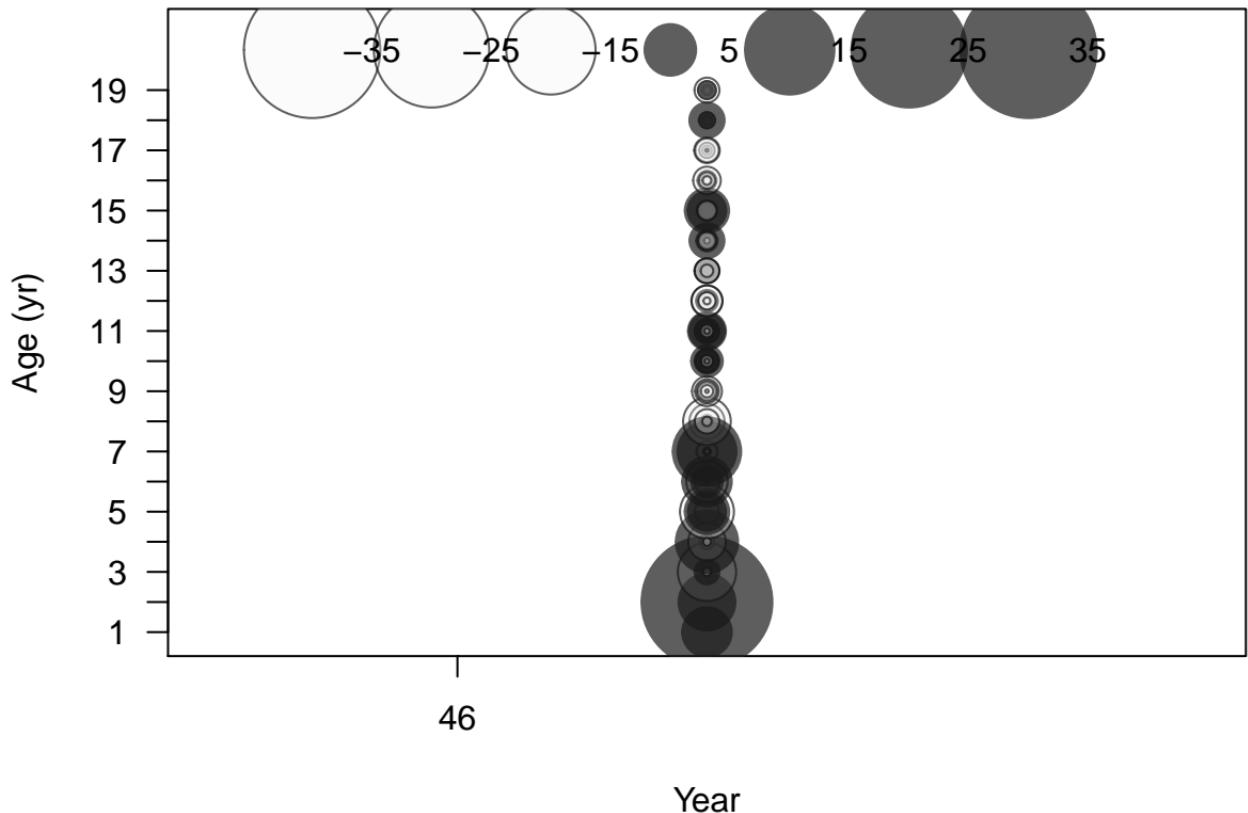
# S1-PS\_DEL\_VAST

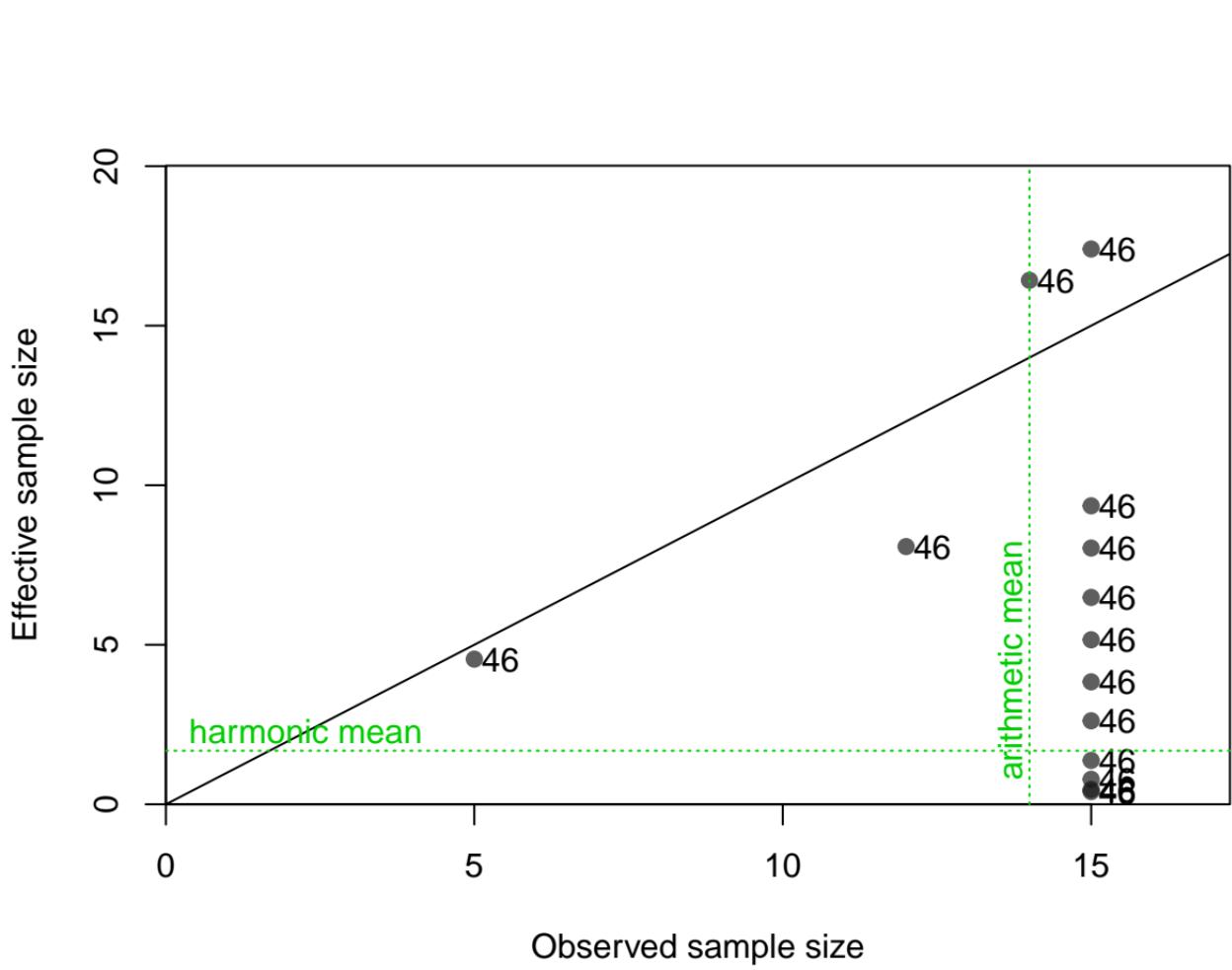
Sum of N adj.=1584.1  
Sum of N eff.=8980.4



Proportion

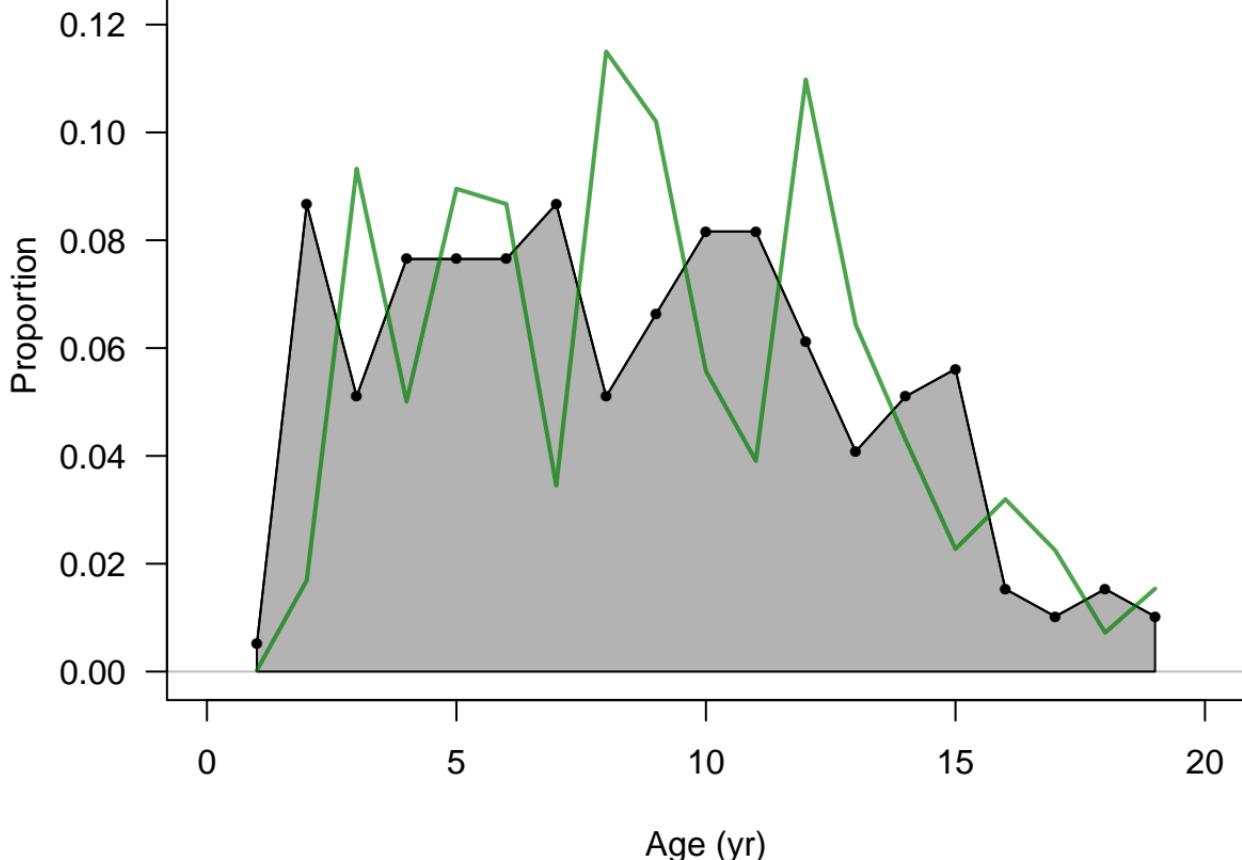


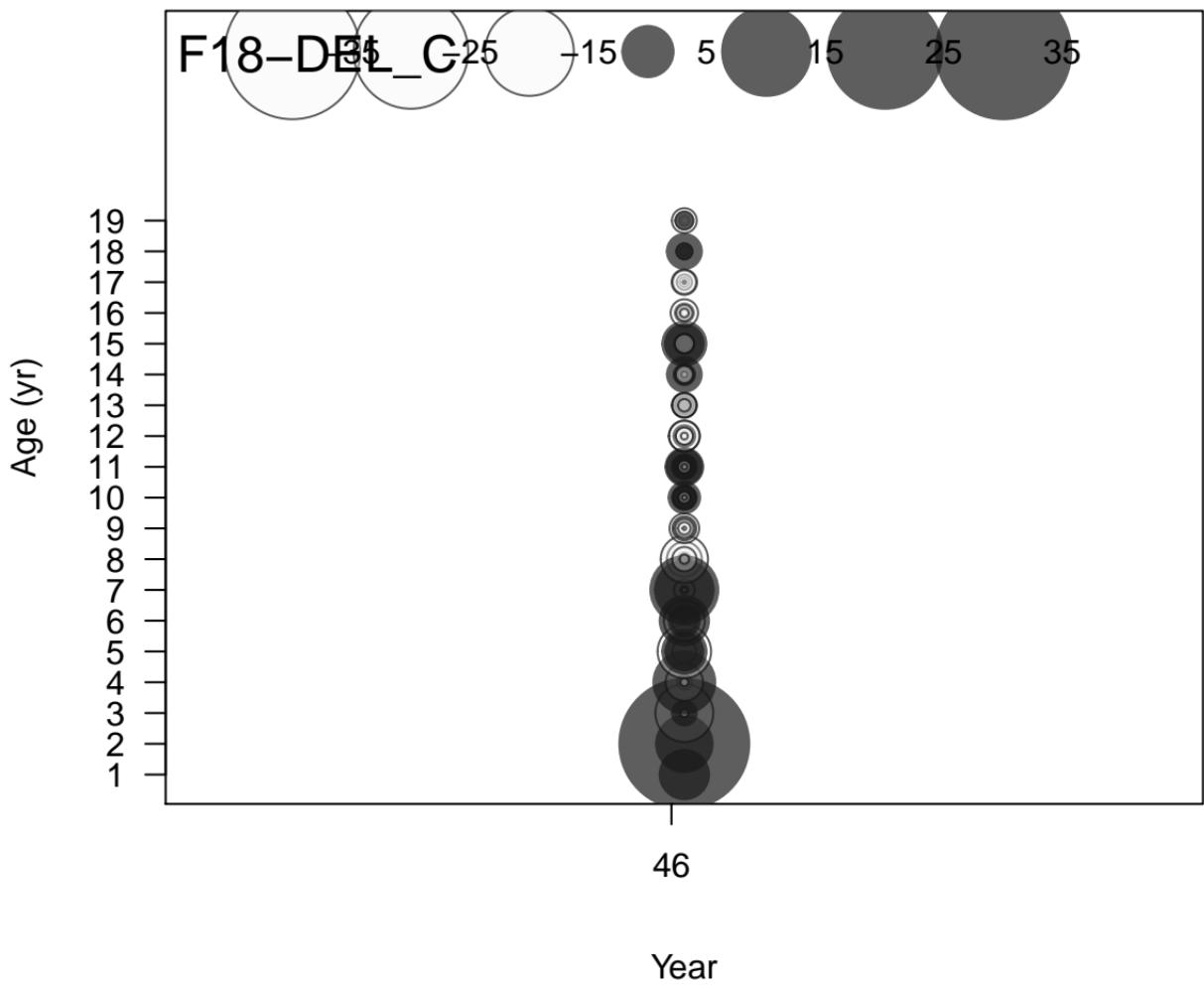


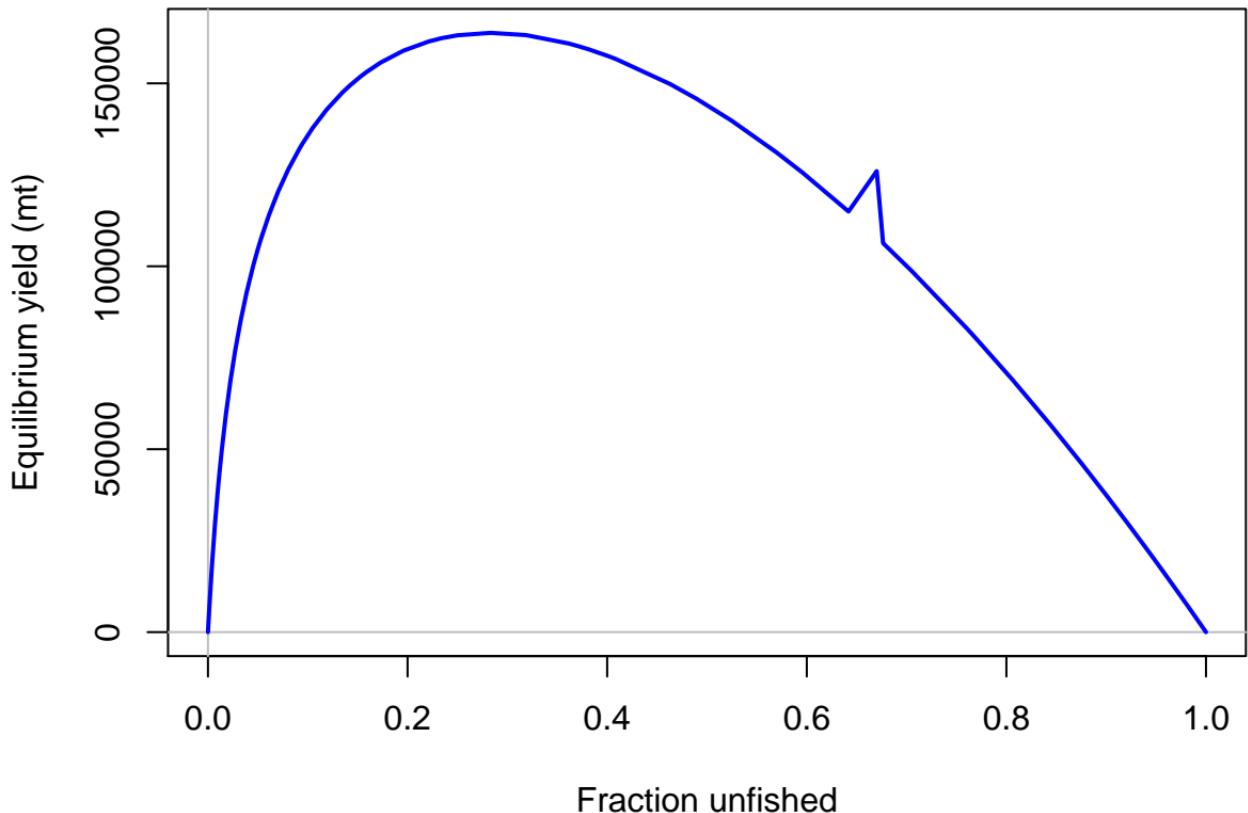


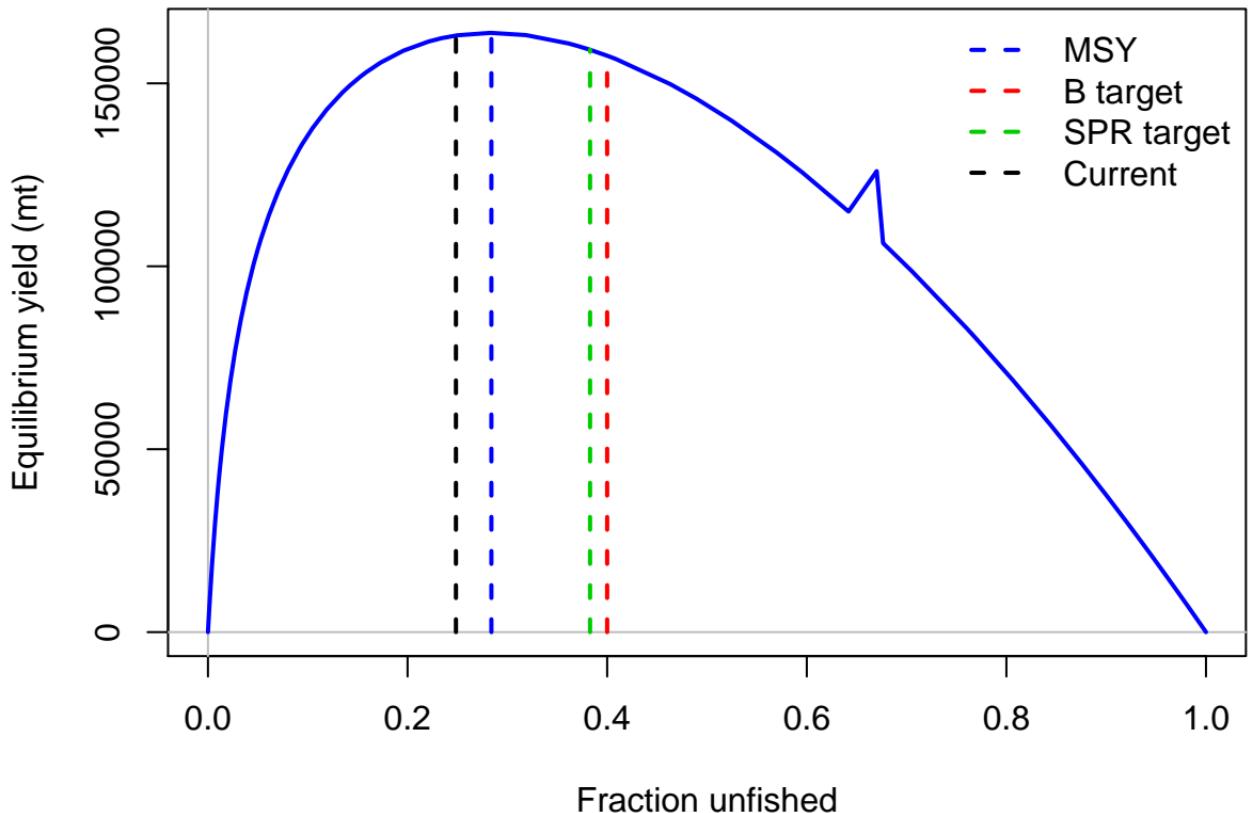
# F18-DEL\_C

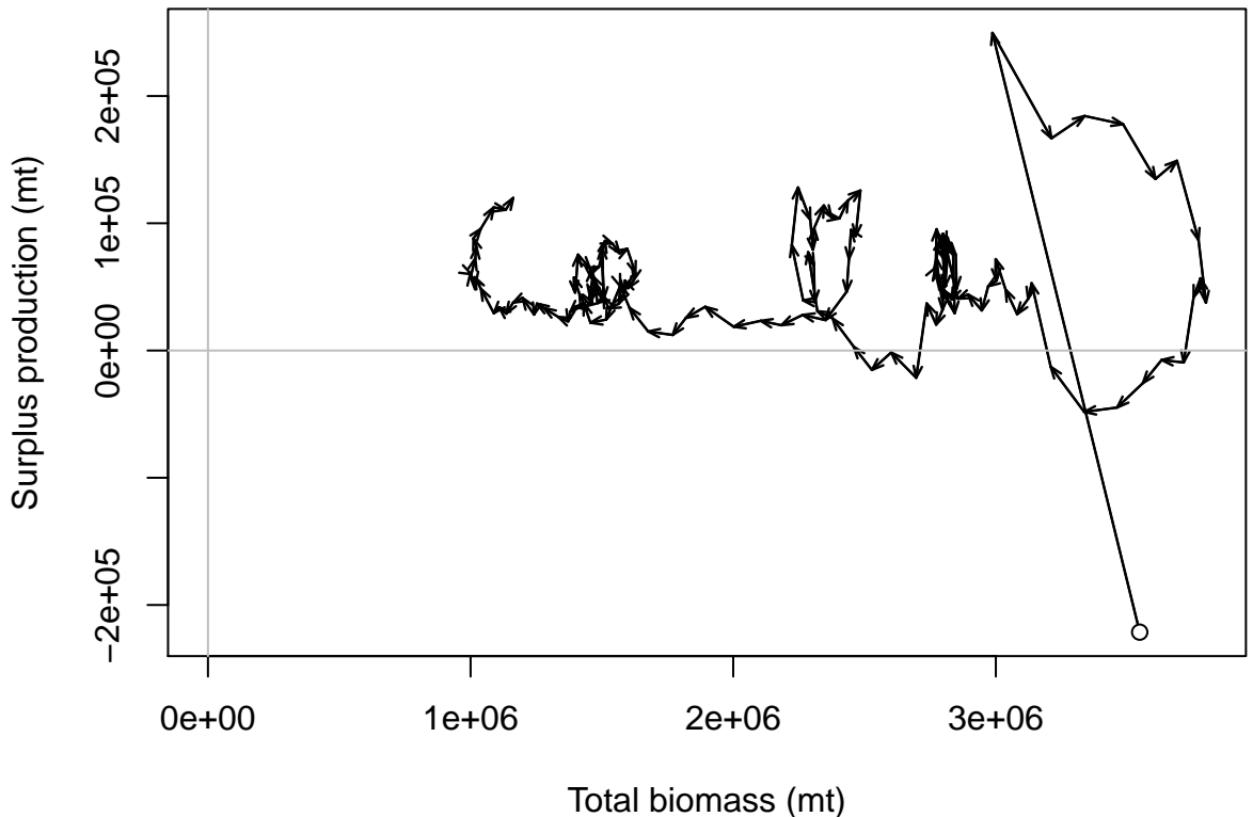
Sum of N adj.=196  
Sum of N eff.=85

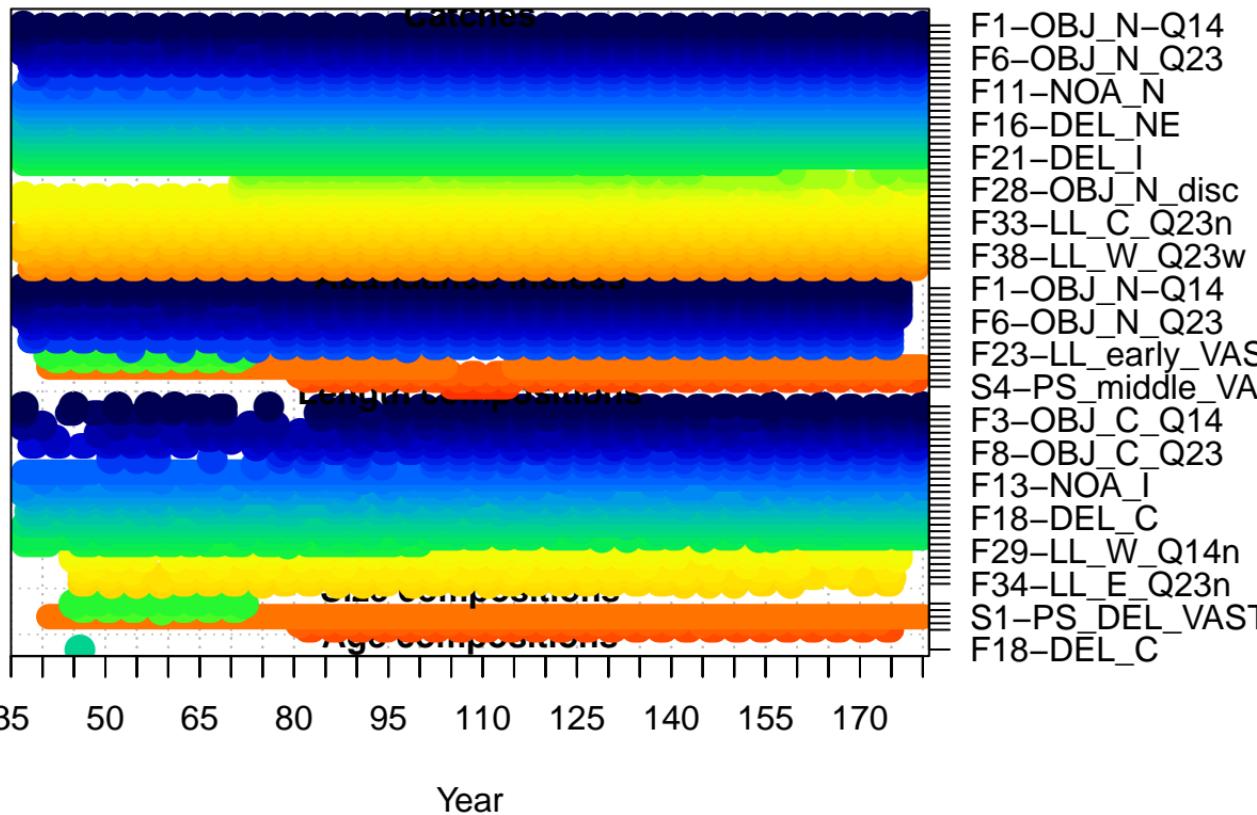


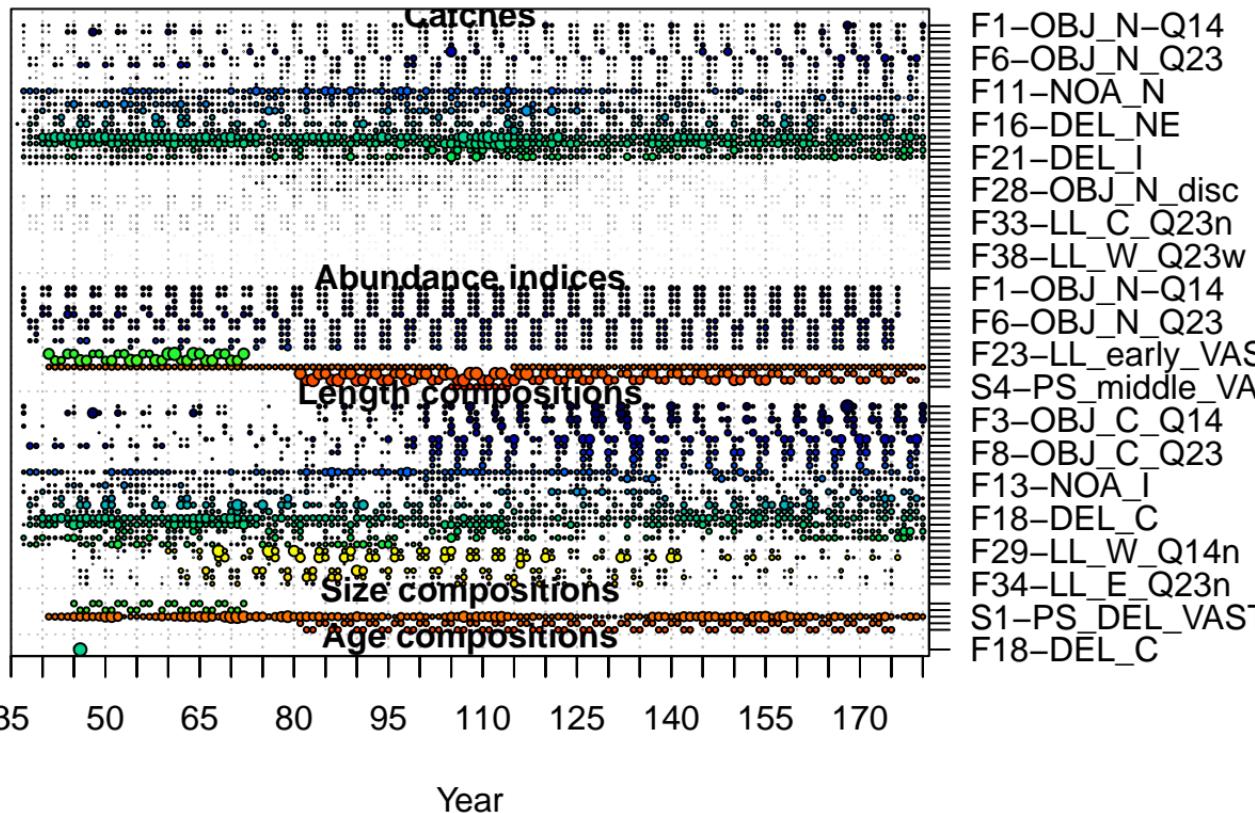






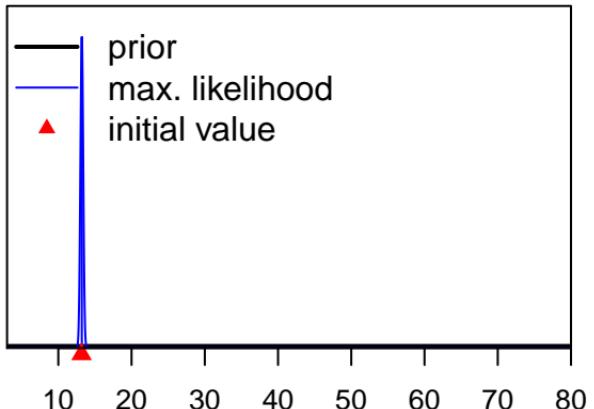




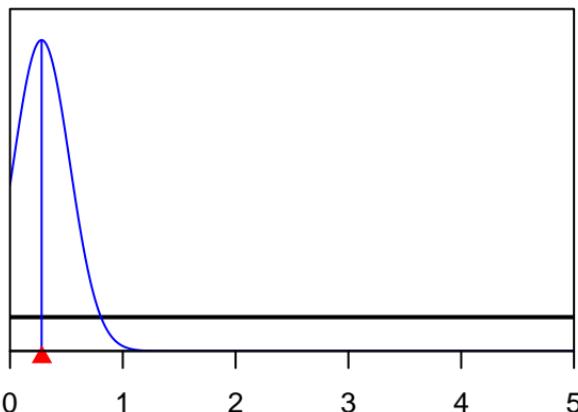


**SR\_LN(R0)**

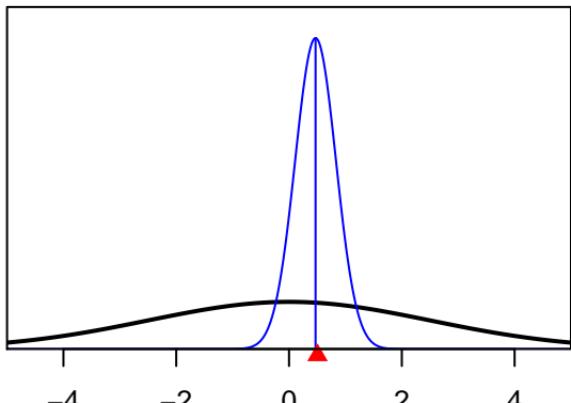
Density



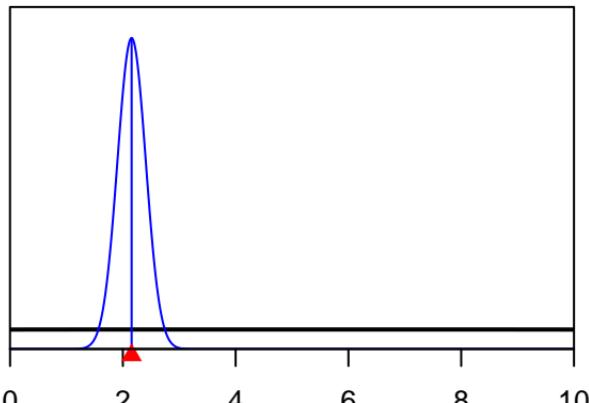
**InitF\_seas\_1\_flt\_16F16-DEL\_NE**



**SR\_regime\_BLK1add\_36**

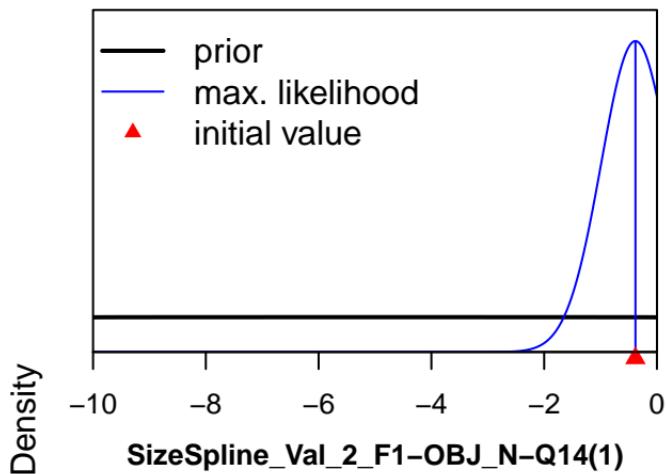


**SizeSpline\_GradLo\_F1-OBJ\_N-Q14(1)**

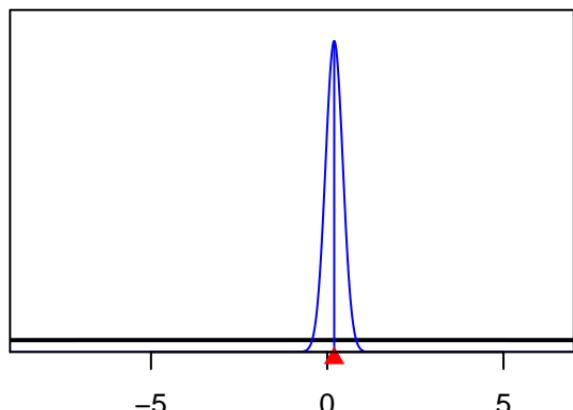


Parameter value

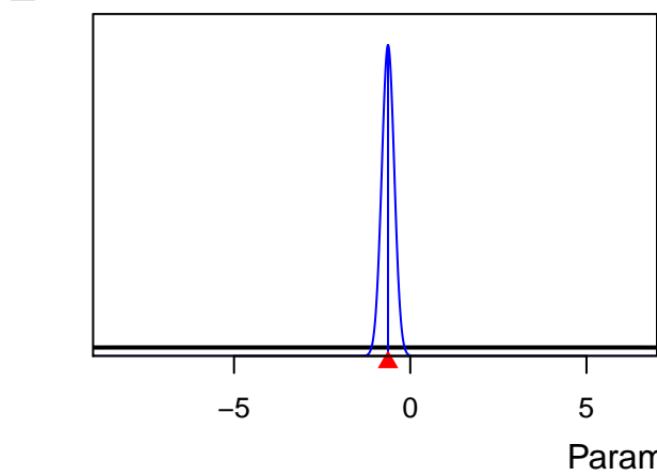
SizeSpline\_GradHi\_F1-OBJ\_N-Q14(1)



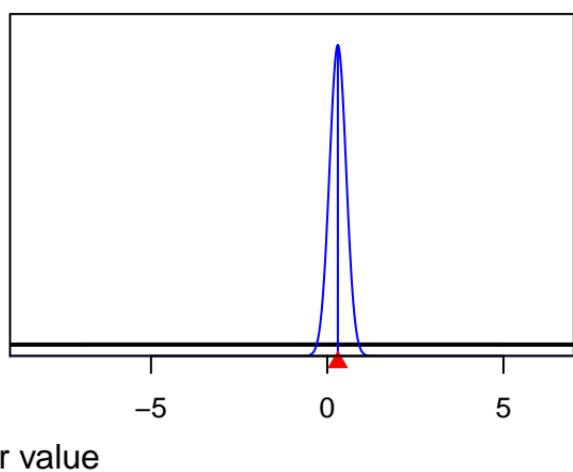
SizeSpline\_Val\_4\_F1-OBJ\_N-Q14(1)



SizeSpline\_Val\_2\_F1-OBJ\_N-Q14(1)



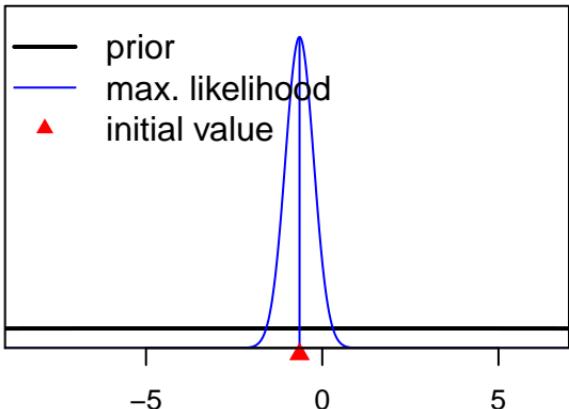
SizeSpline\_Val\_5\_F1-OBJ\_N-Q14(1)



Parameter value

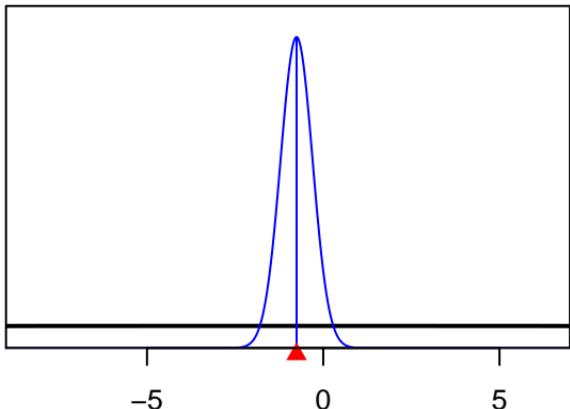
SizeSpline\_Val\_6\_F1-OBJ\_N-Q14(1)

Density



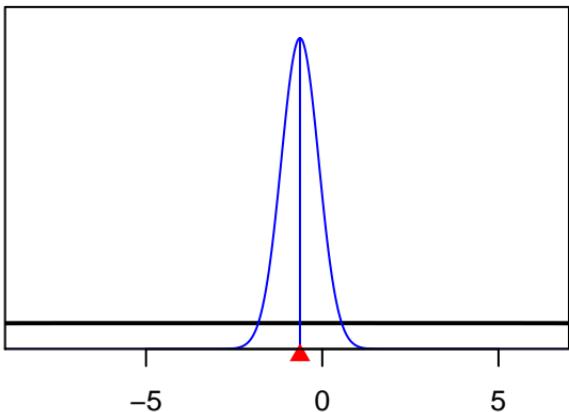
SizeSpline\_Val\_8\_F1-OBJ\_N-Q14(1)

Density

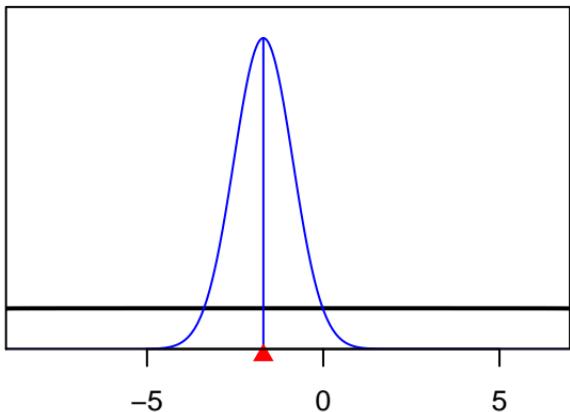


SizeSpline\_Val\_7\_F1-OBJ\_N-Q14(1)

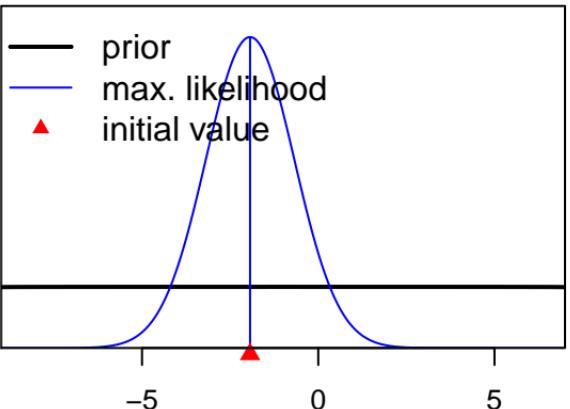
Parameter value



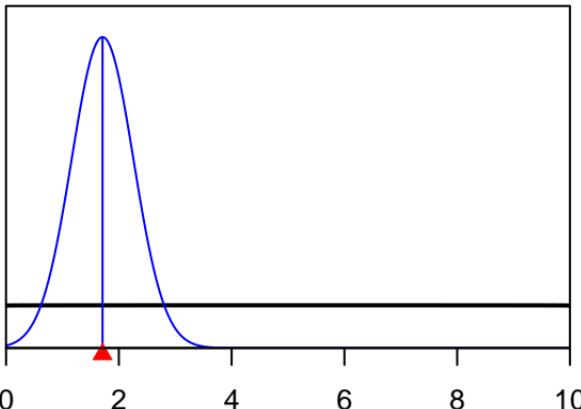
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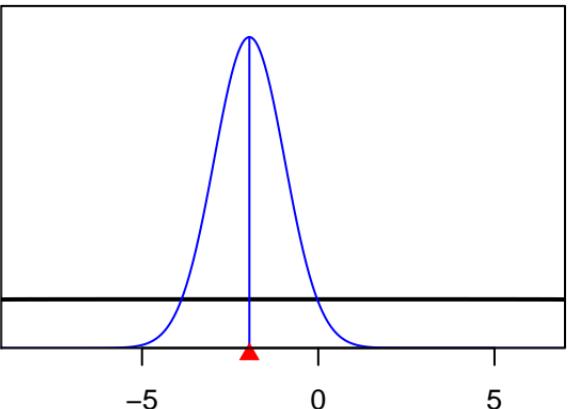
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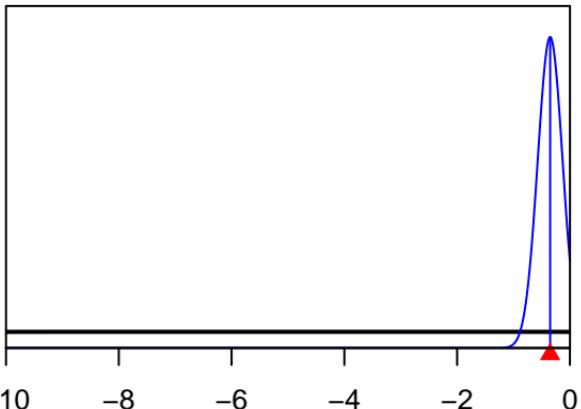
SizeSpline\_GradLo\_F2-OBJ\_Nc\_Q14(2)



SizeSpline\_Val\_11\_F1-OBJ\_N-Q14(1)

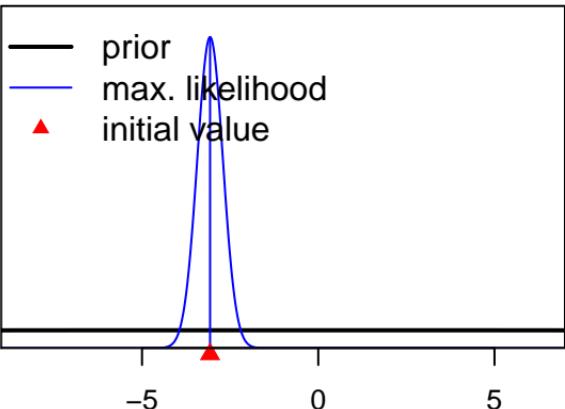


SizeSpline\_GradHi\_F2-OBJ\_Nc\_Q14(2)

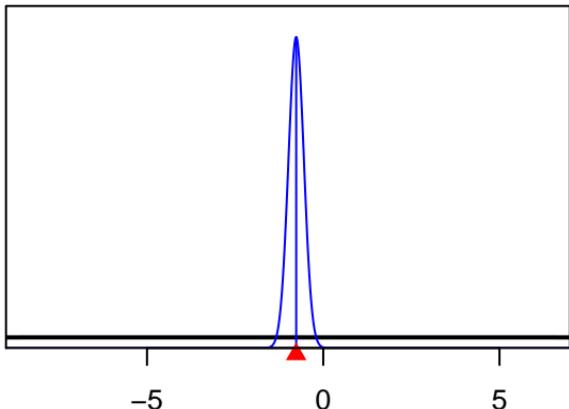


Parameter value

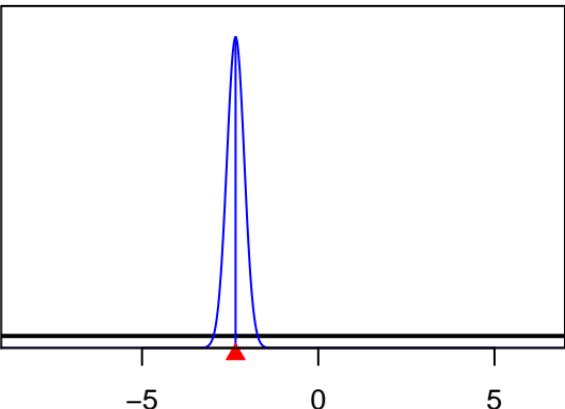
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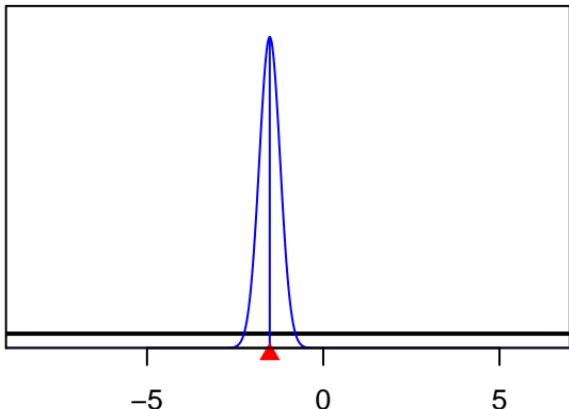
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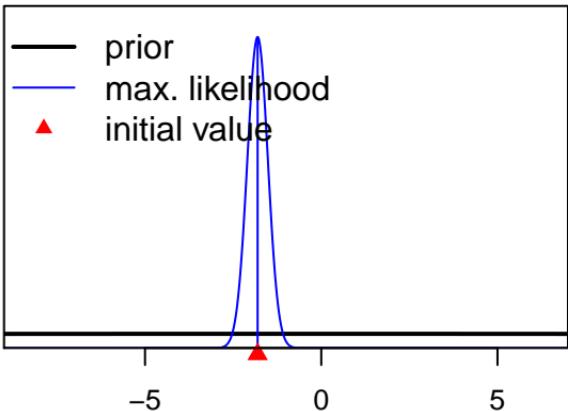
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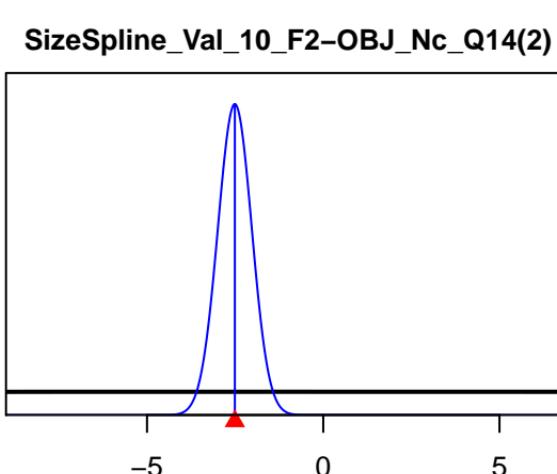
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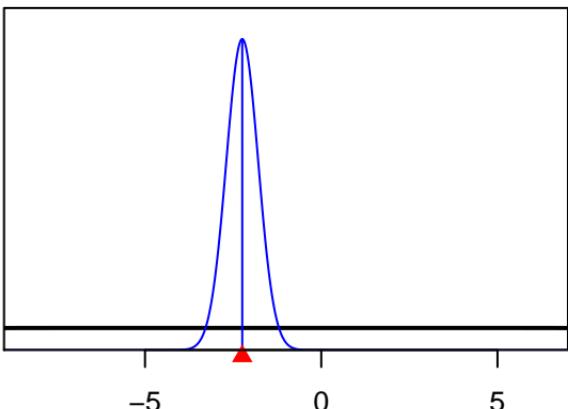
Density



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



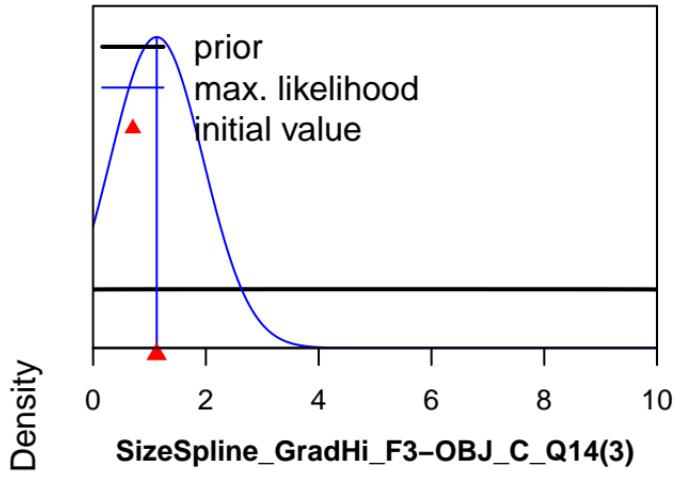
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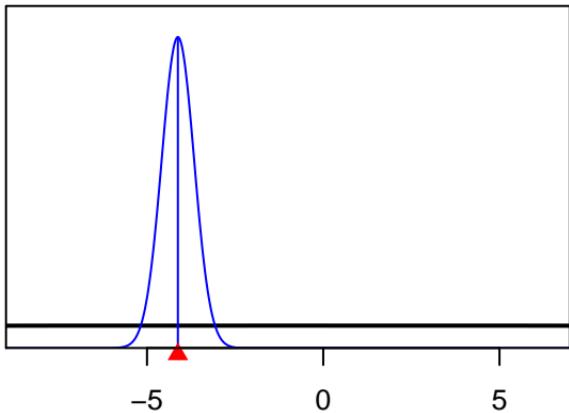
Parameter value

SizeSpline\_Val\_10\_F2-OBJ\_Nc\_Q14(2)

SizeSpline\_GradLo\_F3-OBJ\_C\_Q14(3)

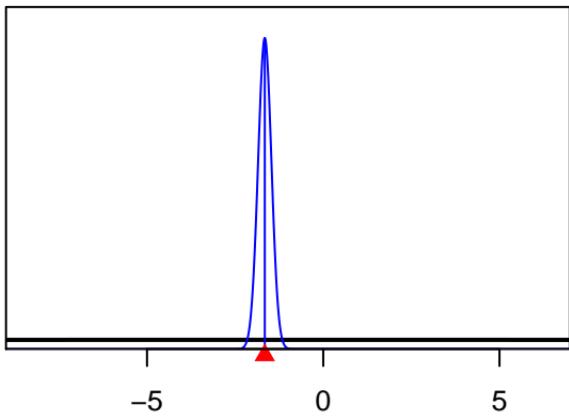


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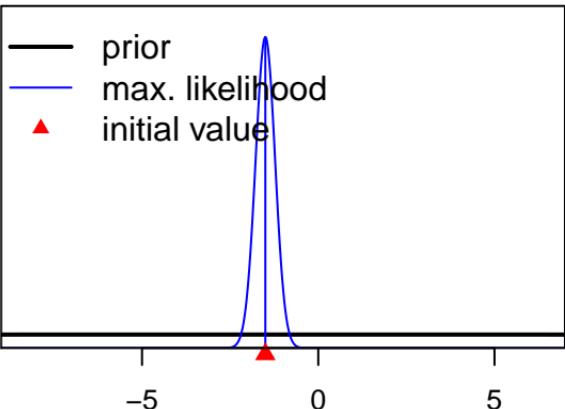


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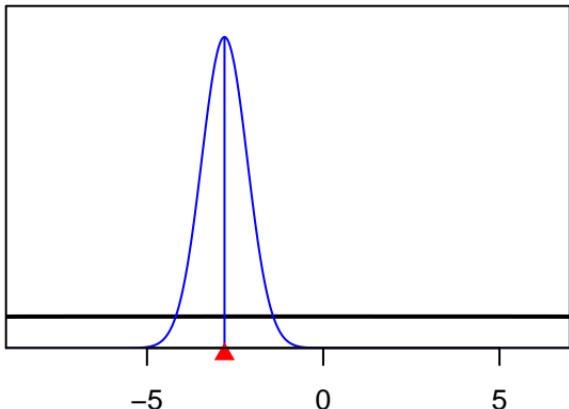
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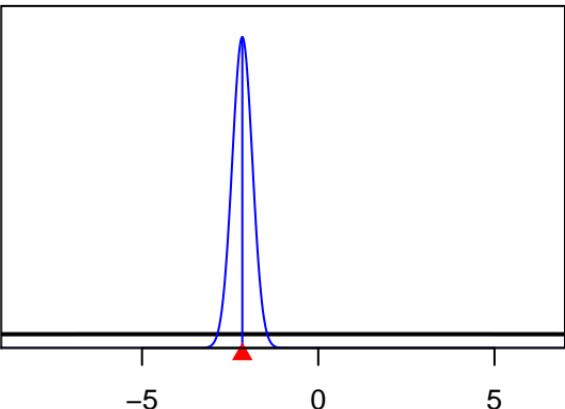
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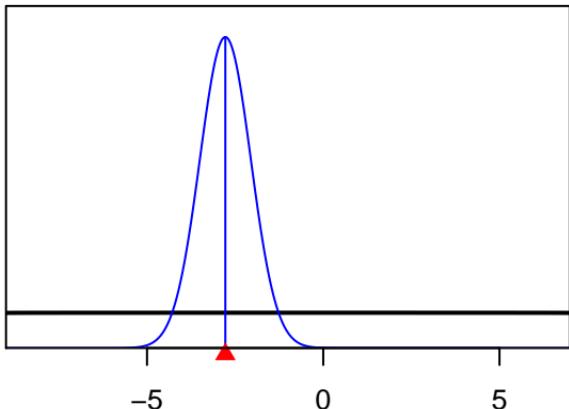
SizeSpline\_Val\_7\_F3-OBJ\_C\_Q14(3)



SizeSpline\_Val\_6\_F3-OBJ\_C\_Q14(3)

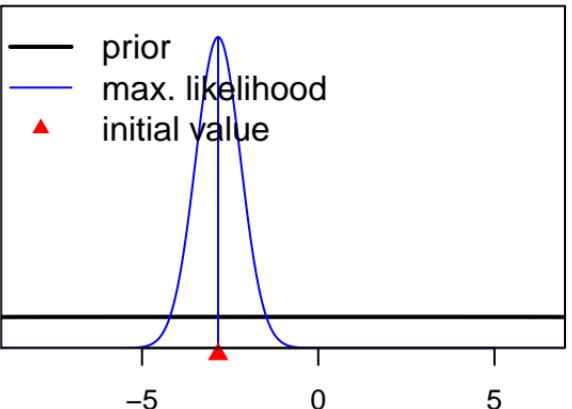


SizeSpline\_Val\_8\_F3-OBJ\_C\_Q14(3)

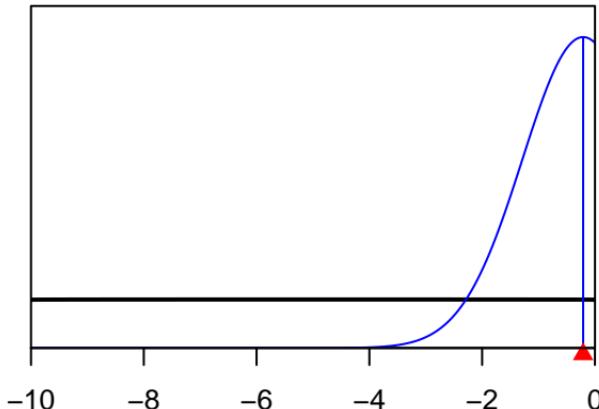


Parameter value

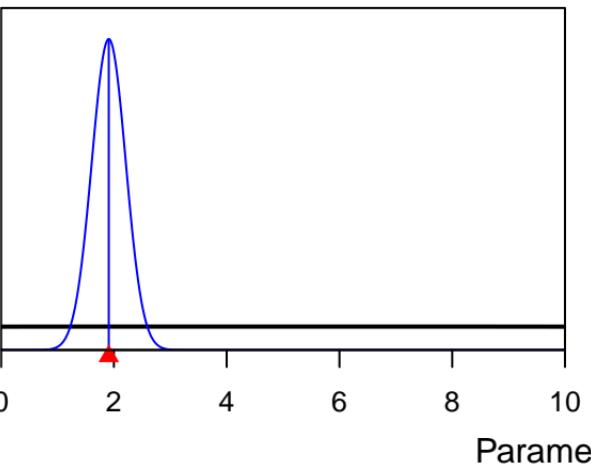
SizeSpline\_Val\_9\_F3-OBJ\_C\_Q14(3)



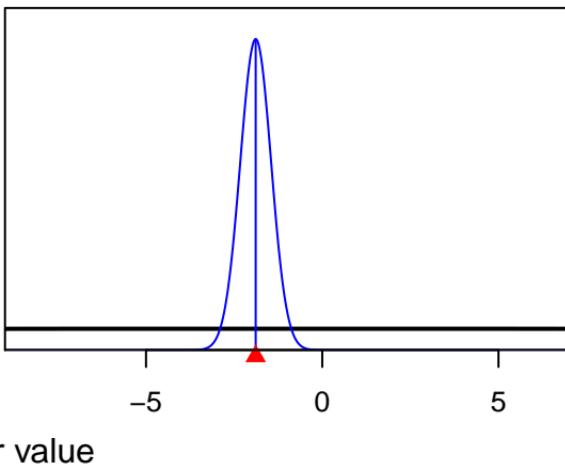
SizeSpline\_GradHi\_F4-OBJ\_Cc\_Q14(4)



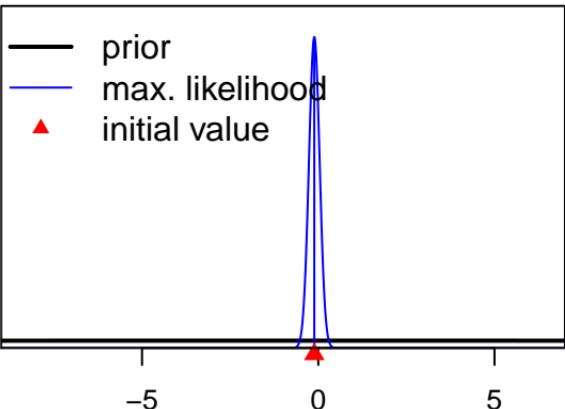
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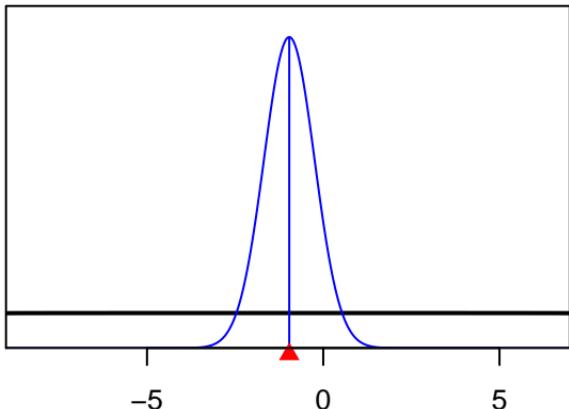
SizeSpline\_Val\_2\_F4-OBJ\_Cc\_Q14(4)



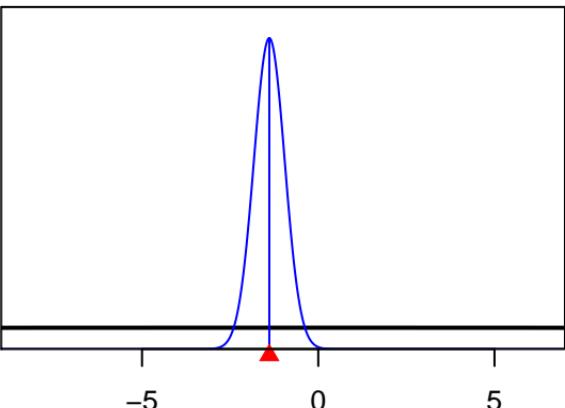
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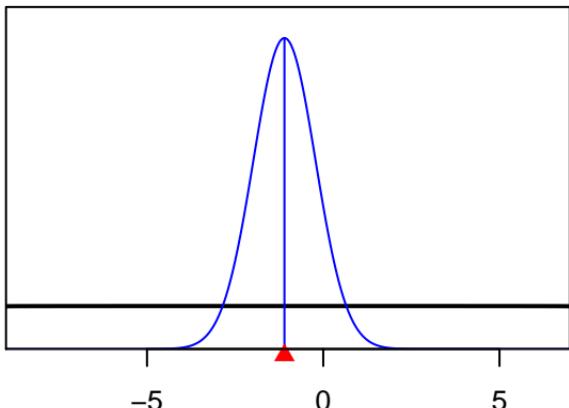
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SizeSpline\_Val\_5\_F4-OBJ\_Cc\_Q14(4)

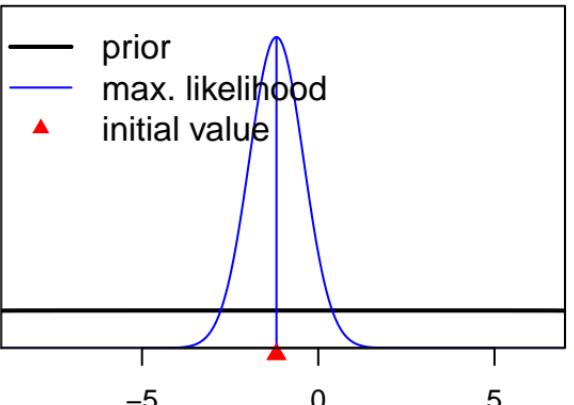


SizeSpline\_Val\_7\_F4-OBJ\_Cc\_Q14(4)

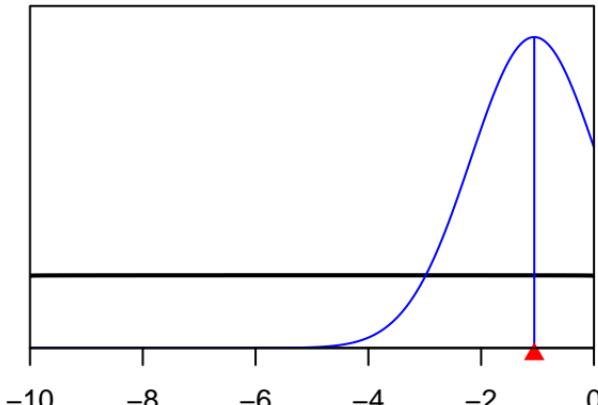


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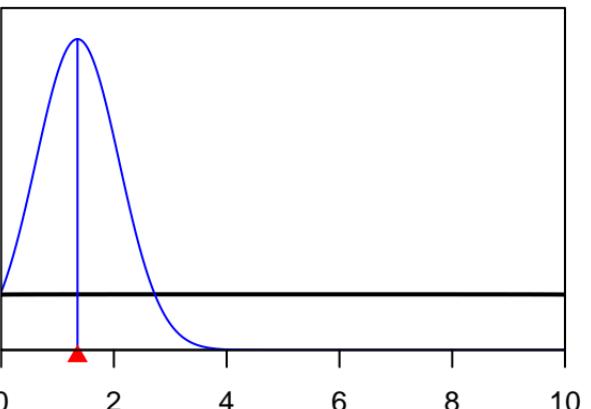
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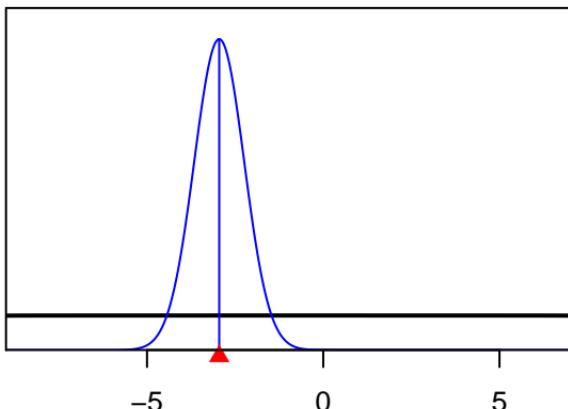
SizeSpline\_GradHi\_F5-OBJ\_S\_Q14(5)



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



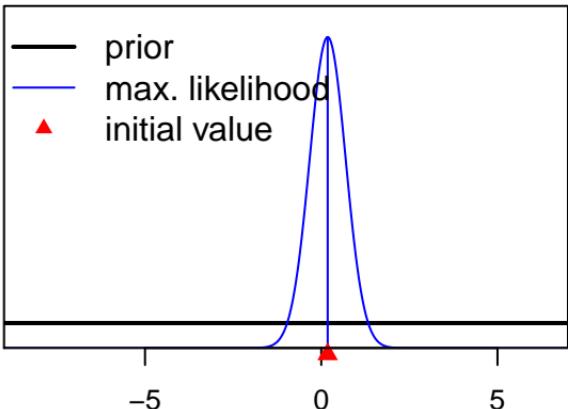
SizeSpline\_Val\_2\_F5-OBJ\_S\_Q14(5)



Parameter value

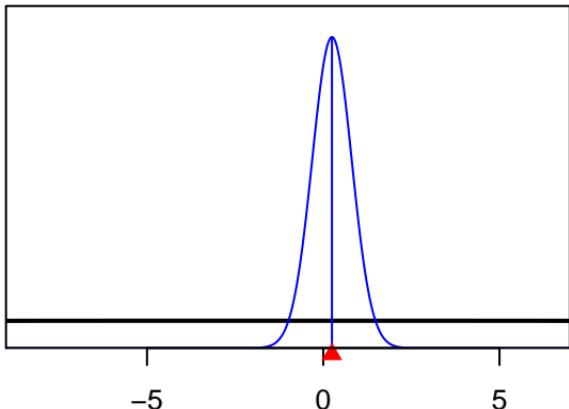
SizeSpline\_Val\_3\_F5-OBJ\_S\_Q14(5)

Density

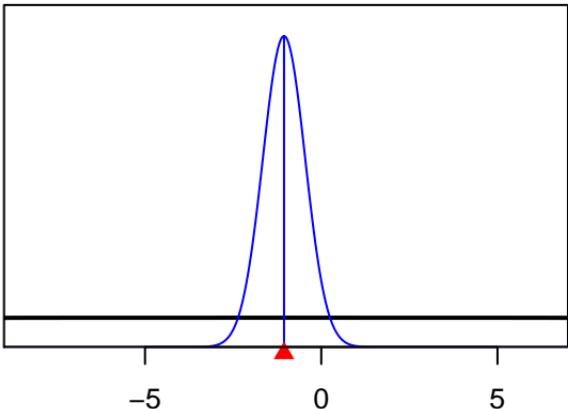


SizeSpline\_Val\_5\_F5-OBJ\_S\_Q14(5)

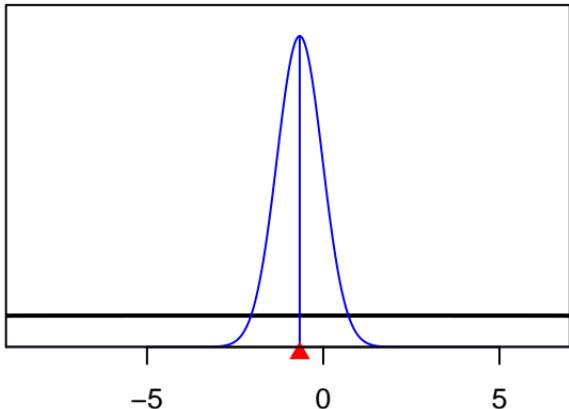
Density



SizeSpline\_Val\_4\_F5-OBJ\_S\_Q14(5)

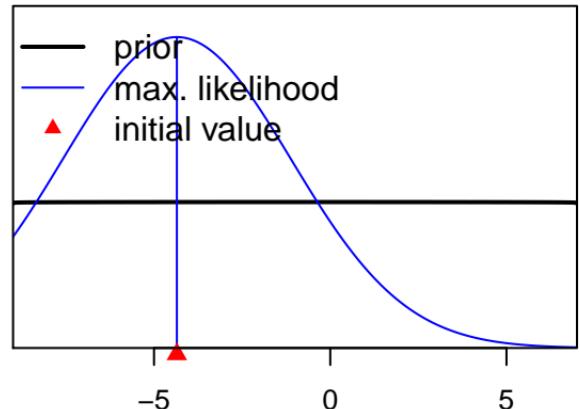


SizeSpline\_Val\_6\_F5-OBJ\_S\_Q14(5)

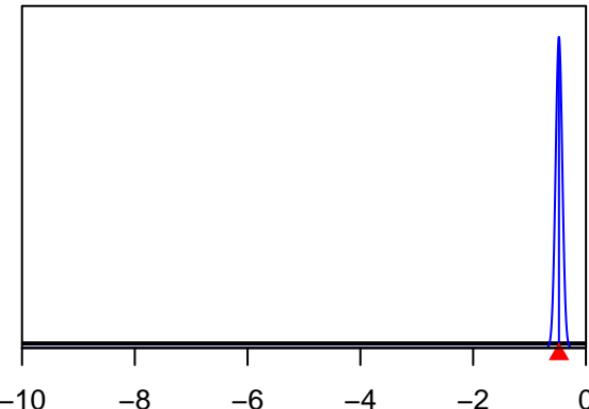


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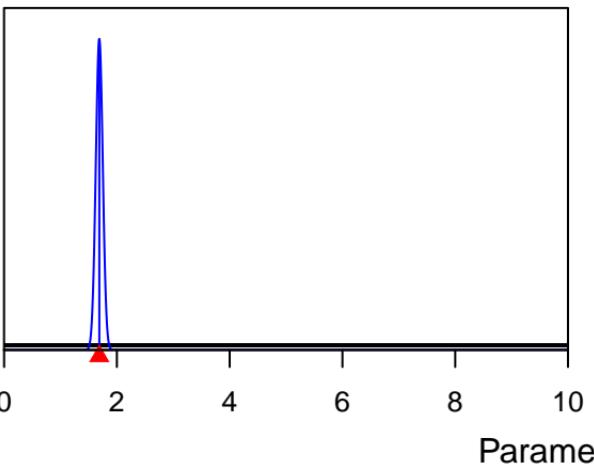
SizeSpline\_Val\_8\_F5-OBJ\_S\_Q14(5)



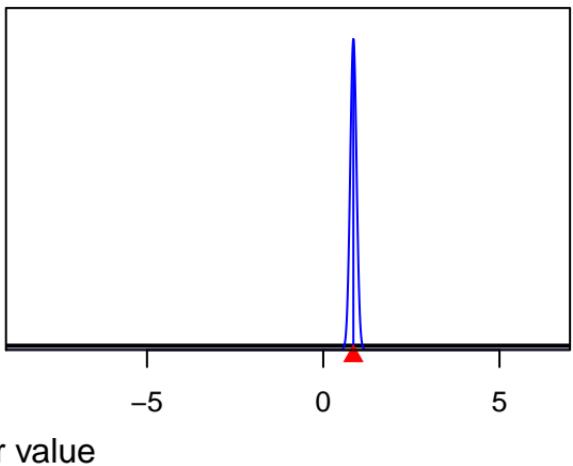
SizeSpline\_GradHi\_F6-OBJ\_N\_Q23(6)



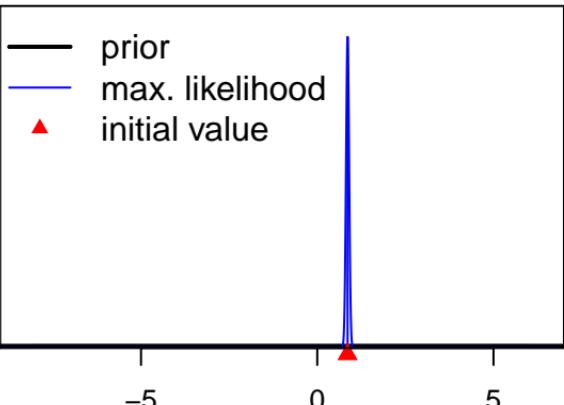
SizeSpline\_GradLo\_F6-OBJ\_N\_Q23(6)



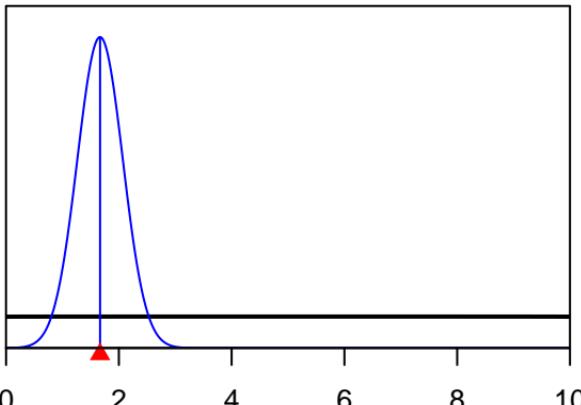
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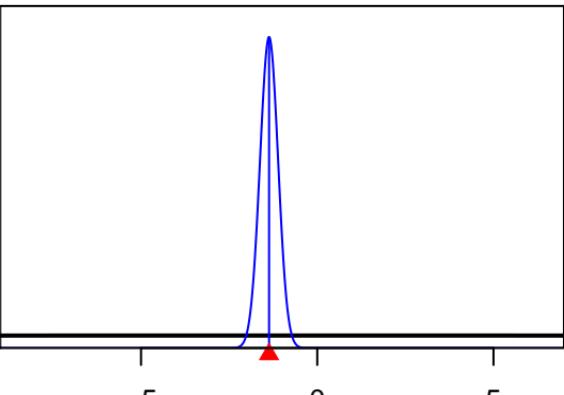
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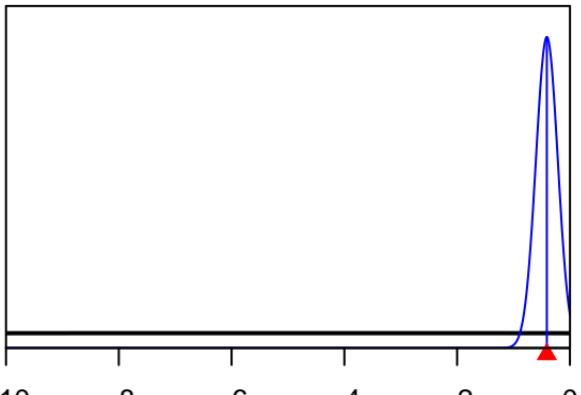
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SizeSpline\_Val\_5\_F6-OBJ\_N\_Q23(6)

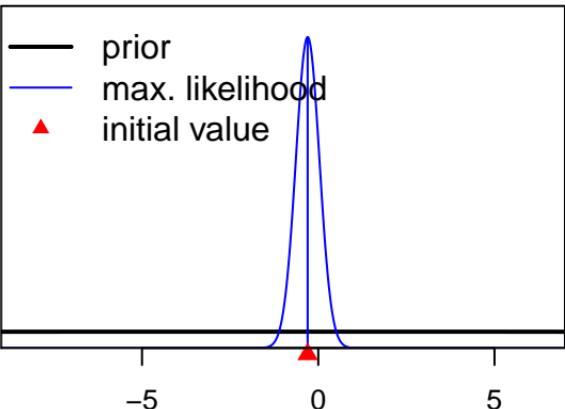


SizeSpline\_GradHi\_F7-OBJ\_Nc\_Q23(7)

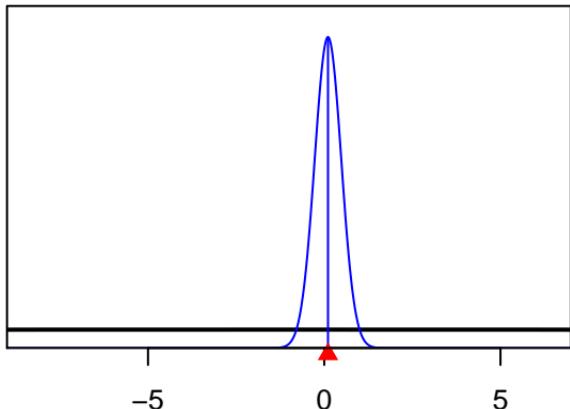


Parameter value

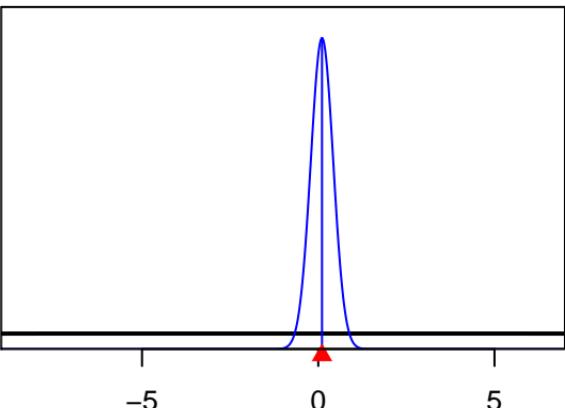
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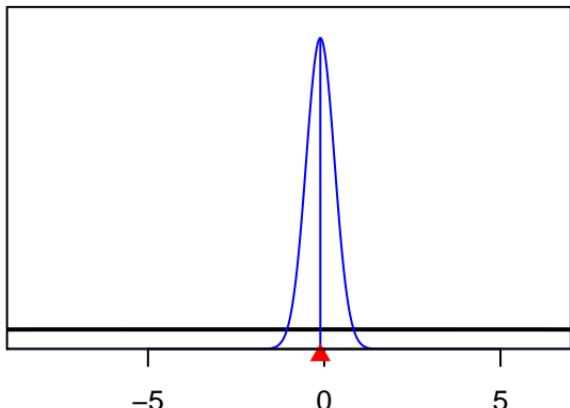
SizeSpline\_Val\_5\_F7-OBJ\_Nc\_Q23(7)



SizeSpline\_Val\_4\_F7-OBJ\_Nc\_Q23(7)

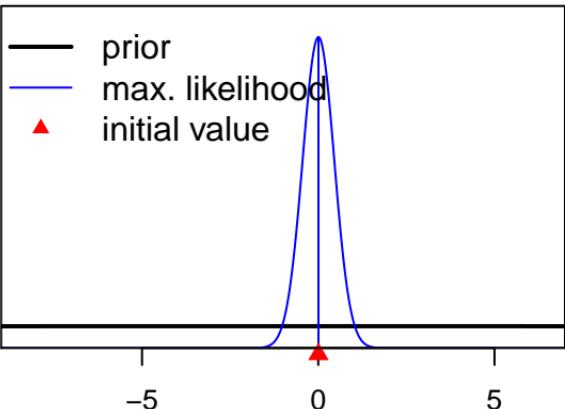


SizeSpline\_Val\_6\_F7-OBJ\_Nc\_Q23(7)

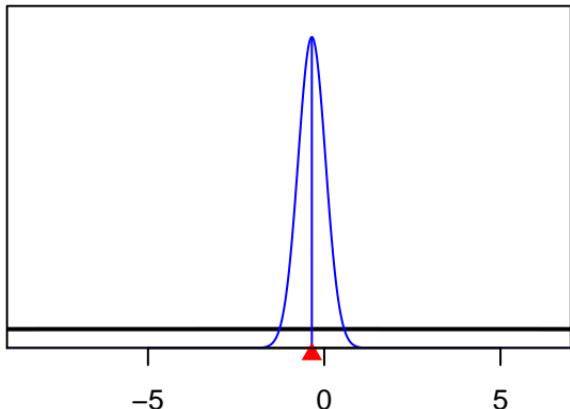


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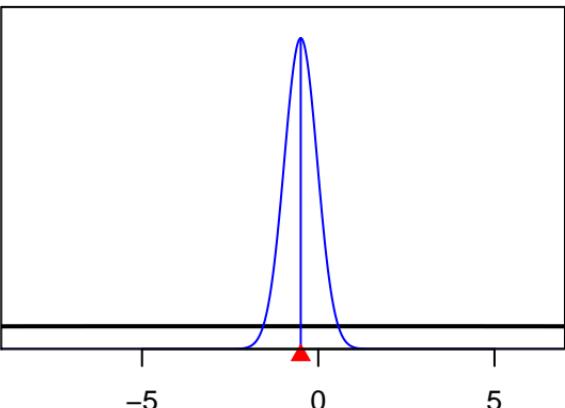
SizeSpline\_Val\_7\_F7-OBJ\_Nc\_Q23(7)



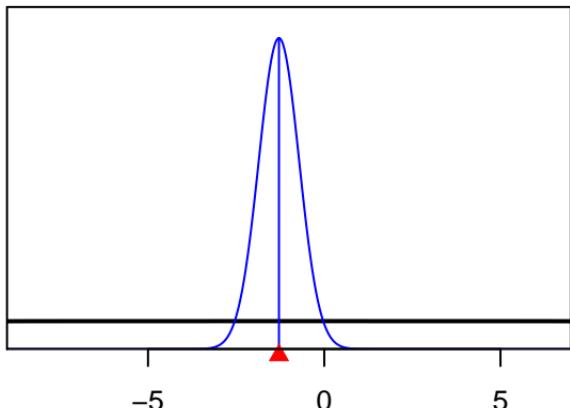
SizeSpline\_Val\_9\_F7-OBJ\_Nc\_Q23(7)



SizeSpline\_Val\_8\_F7-OBJ\_Nc\_Q23(7)

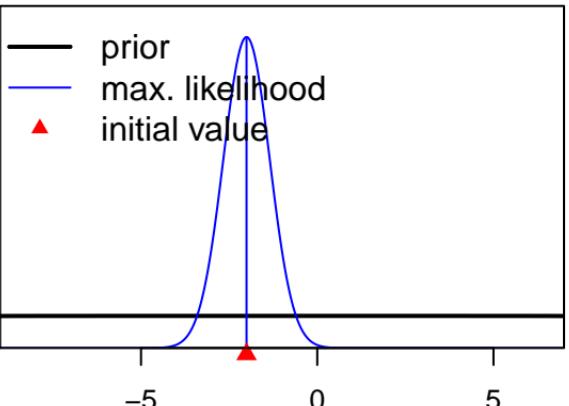


SizeSpline\_Val\_10\_F7-OBJ\_Nc\_Q23(7)

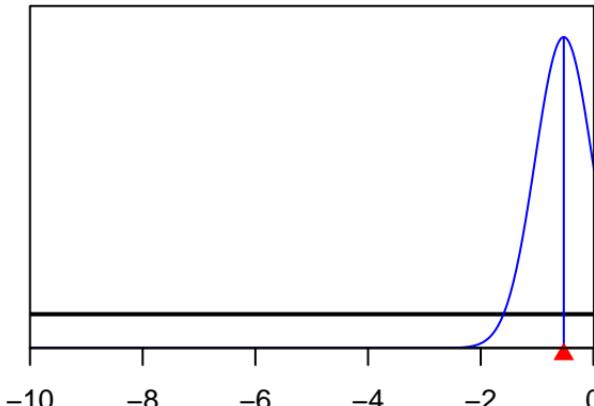


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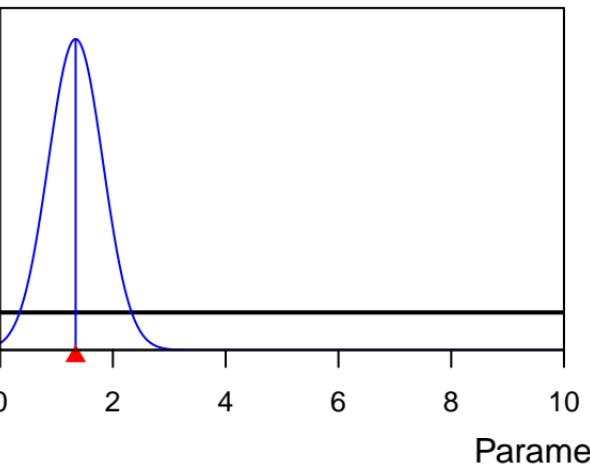
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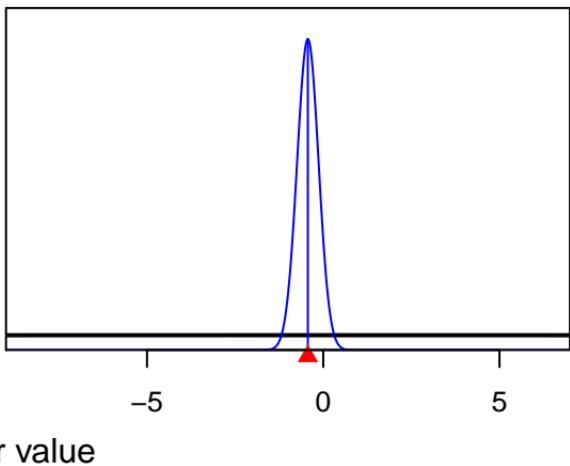
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SizeSpline\_GradLo\_F8-OBJ\_C\_Q23(8)

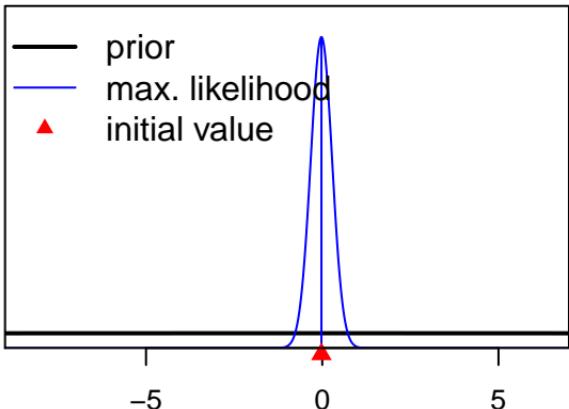


SizeSpline\_Val\_2\_F8-OBJ\_C\_Q23(8)



SizeSpline\_Val\_3\_F8-OBJ\_C\_Q23(8)

Density



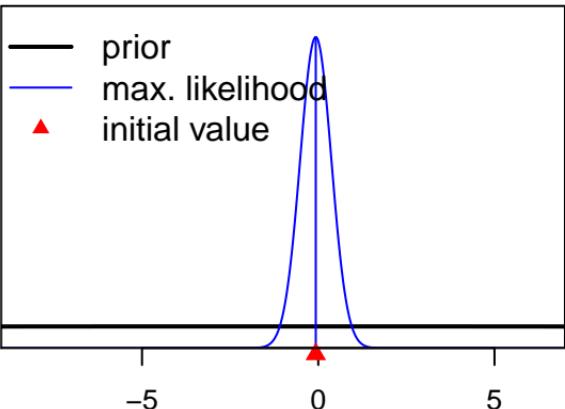
SizeSpline\_Val\_6\_F8-OBJ\_C\_Q23(8)

SizeSpline\_Val\_4\_F8-OBJ\_C\_Q23(8)

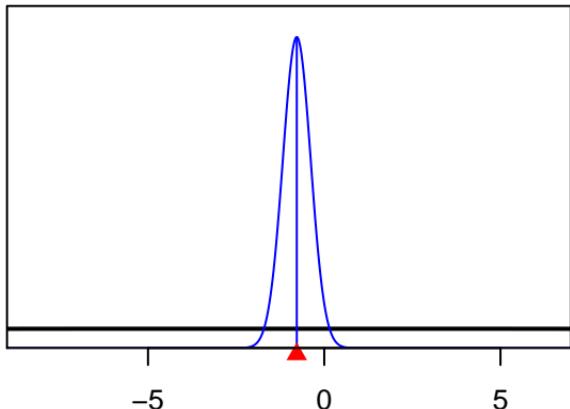
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Parameter value

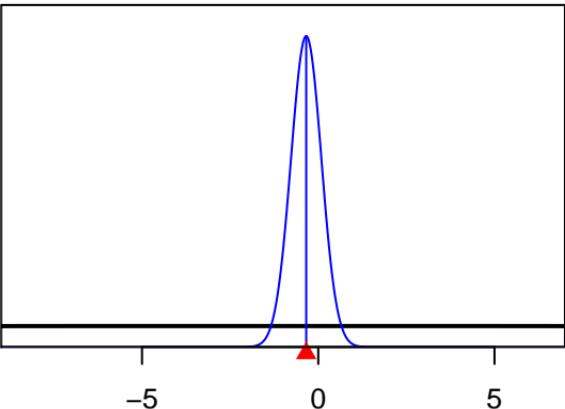
SizeSpline\_Val\_8\_F8-OBJ\_C\_Q23(8)



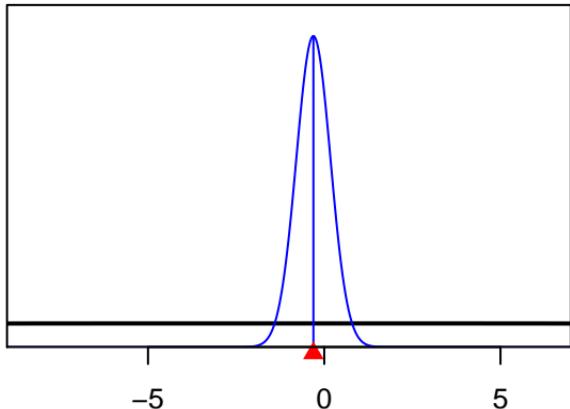
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SizeSpline\_Val\_9\_F8-OBJ\_C\_Q23(8)

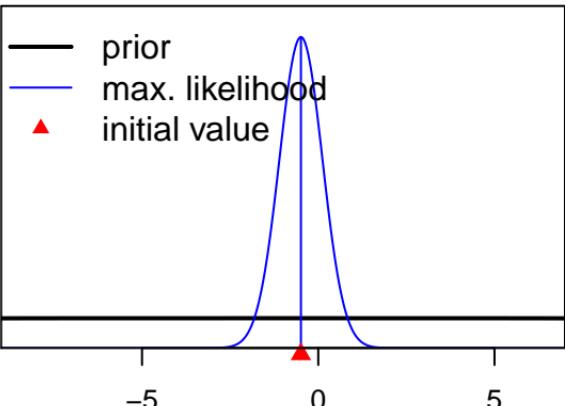


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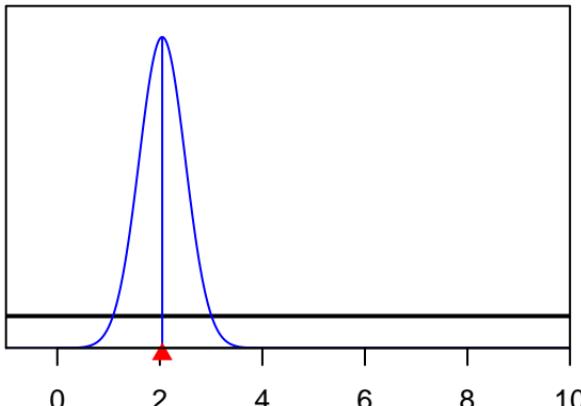


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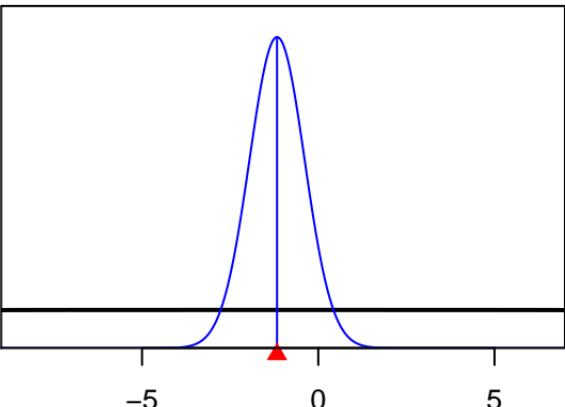
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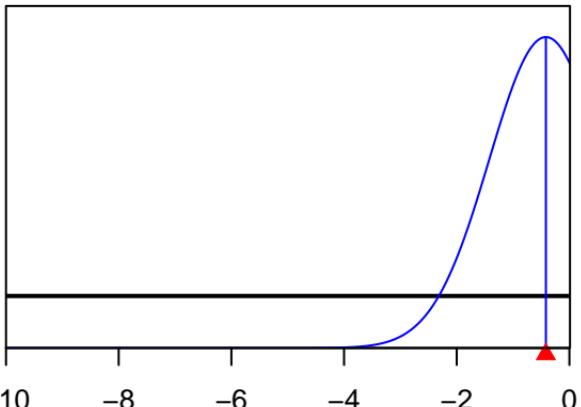
SizeSpline\_GradLo\_F9–OBJ\_Cc\_Q23(9)



SizeSpline\_Val\_13\_F8–OBJ\_C\_Q23(8)

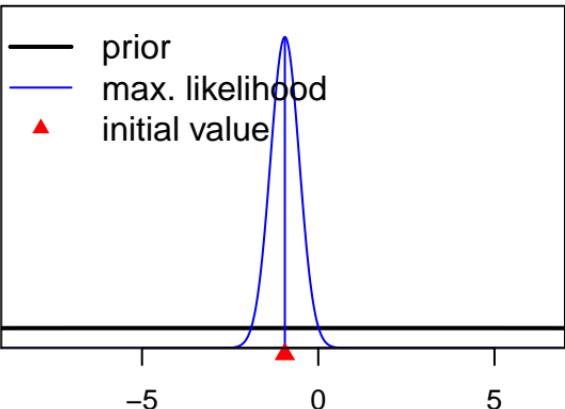


SizeSpline\_GradHi\_F9–OBJ\_Cc\_Q23(9)

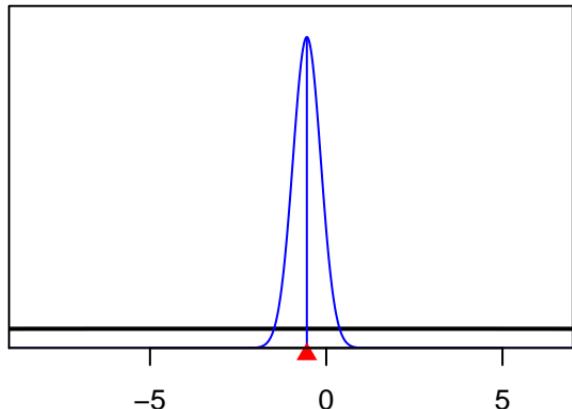


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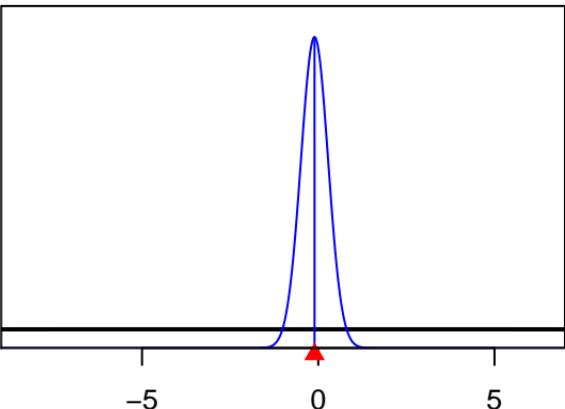
SizeSpline\_Val\_2\_F9-OBJ\_Cc\_Q23(9)



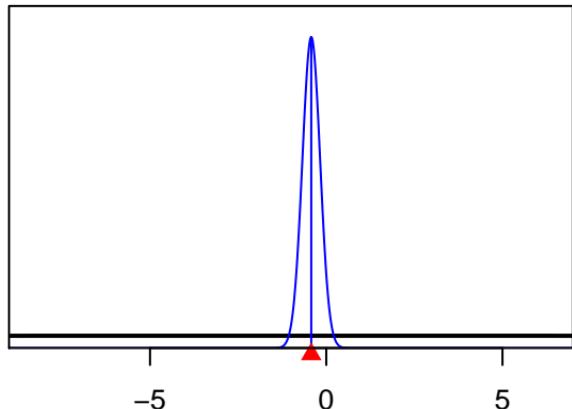
SizeSpline\_Val\_4\_F9-OBJ\_Cc\_Q23(9)



SizeSpline\_Val\_3\_F9-OBJ\_Cc\_Q23(9)

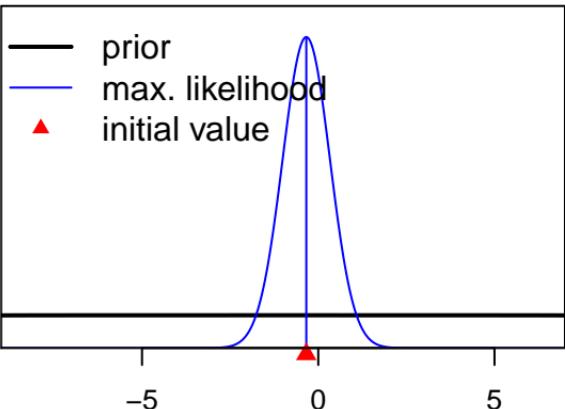


SizeSpline\_Val\_6\_F9-OBJ\_Cc\_Q23(9)

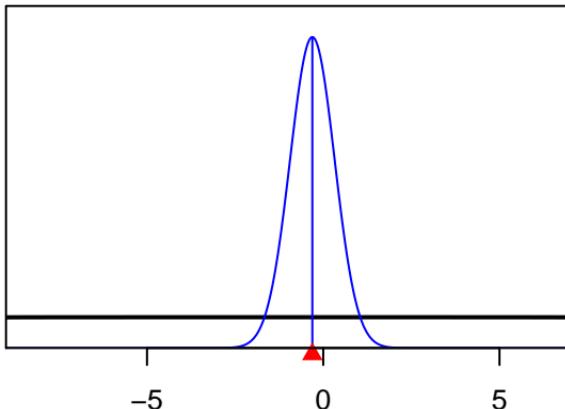


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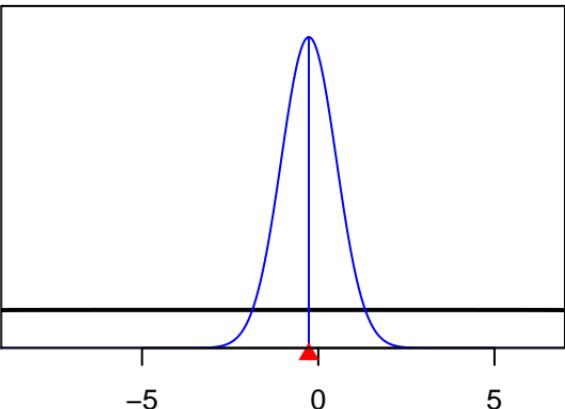
SizeSpline\_Val\_7\_F9-OBJ\_Cc\_Q23(9)



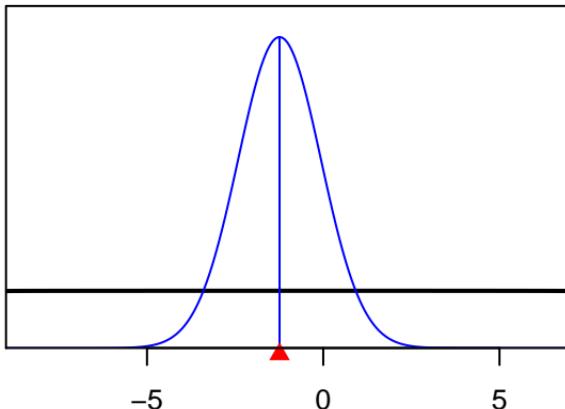
SizeSpline\_Val\_9\_F9-OBJ\_Cc\_Q23(9)



SizeSpline\_Val\_8\_F9-OBJ\_Cc\_Q23(9)

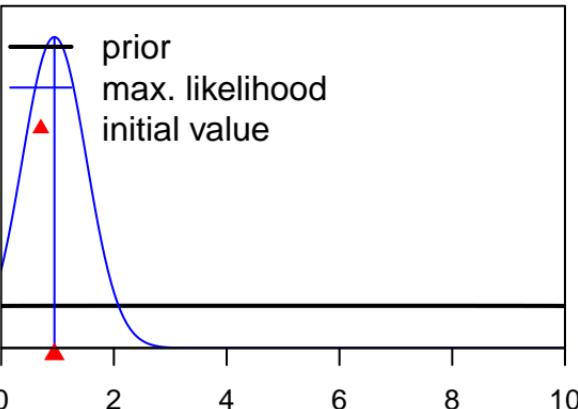


SizeSpline\_Val\_10\_F9-OBJ\_Cc\_Q23(9)

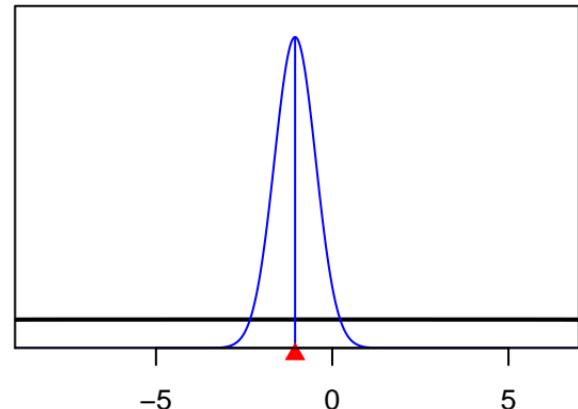


Parameter value

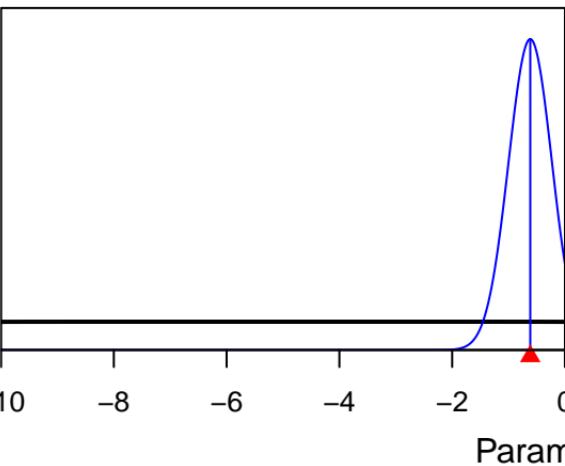
**SizeSpline\_GradLo\_F10-OBJ\_S\_Q23(10)**



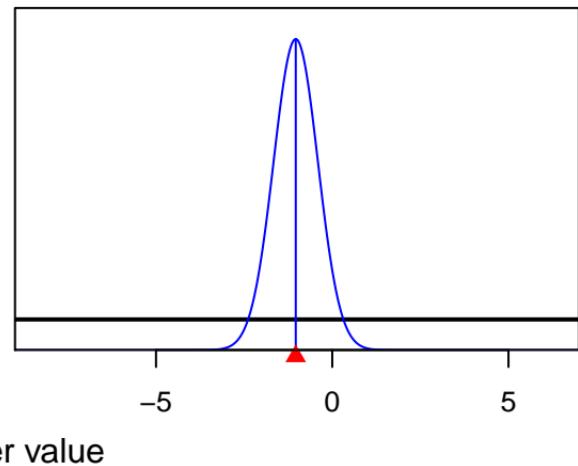
**SizeSpline\_Val\_2\_F10-OBJ\_S\_Q23(10)**



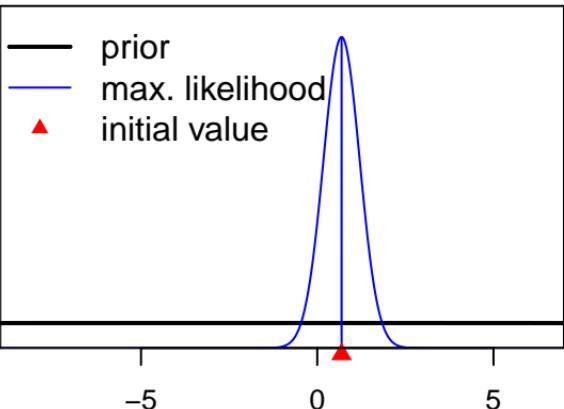
**SizeSpline\_GradHi\_F10-OBJ\_S\_Q23(10)**



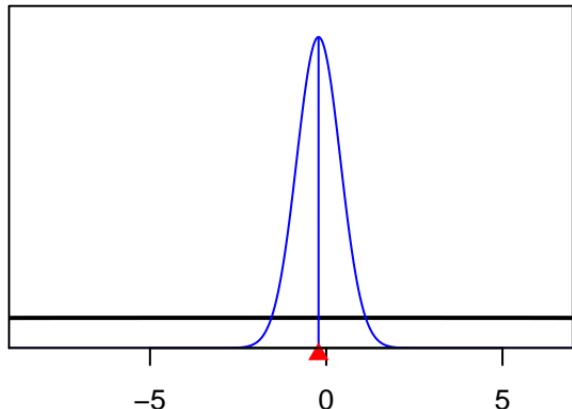
**SizeSpline\_Val\_3\_F10-OBJ\_S\_Q23(10)**



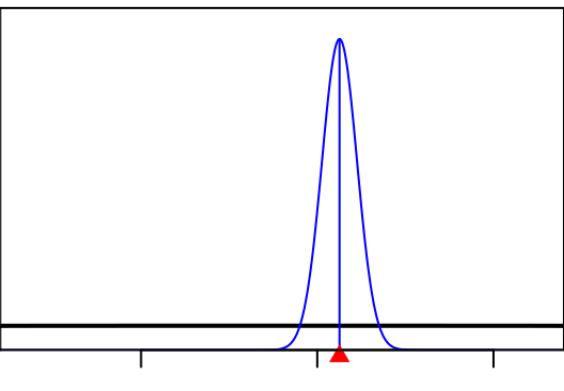
SizeSpline\_Val\_4\_F10-OBJ\_S\_Q23(10)



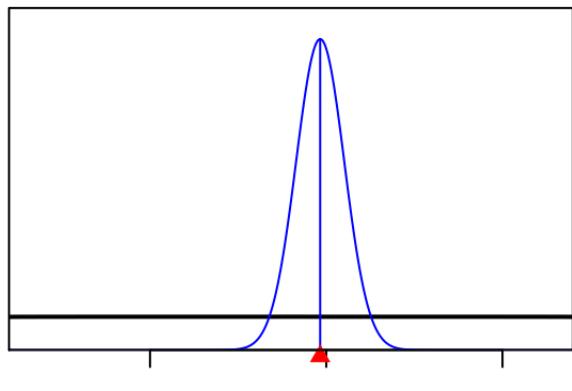
SizeSpline\_Val\_6\_F10-OBJ\_S\_Q23(10)



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



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

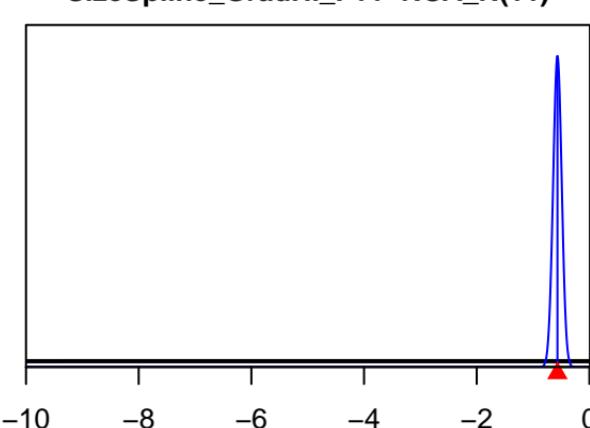
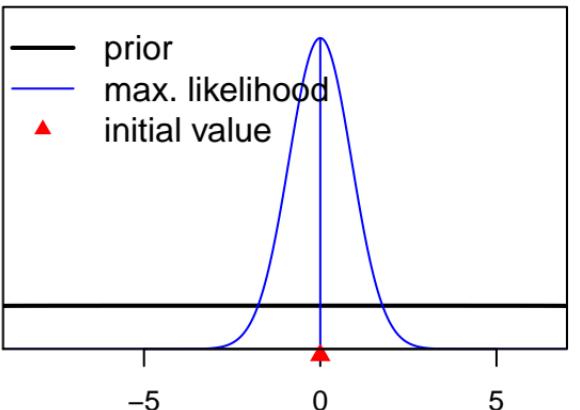


Parameter value

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

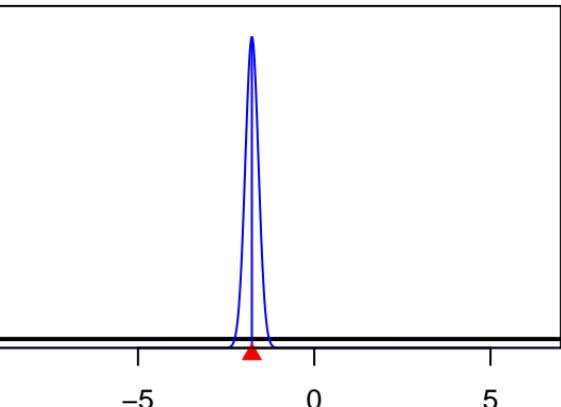
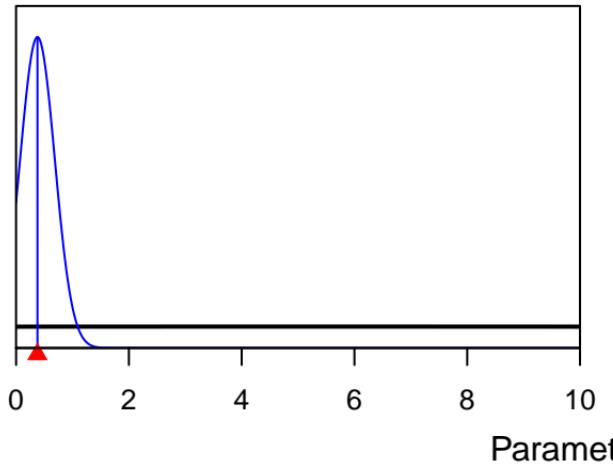
SizeSpline\_GradHi\_F11-NOA\_N(11)

Density



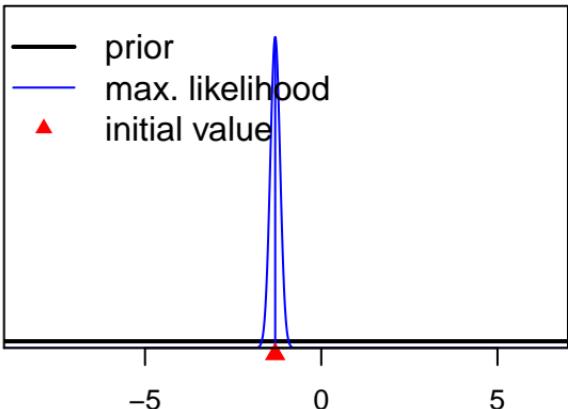
SizeSpline\_GradLo\_F11-NOA\_N(11)

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



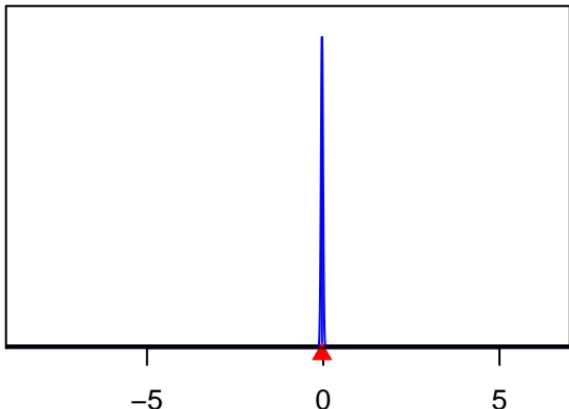
SizeSpline\_Val\_3\_F11-NOA\_N(11)

Density



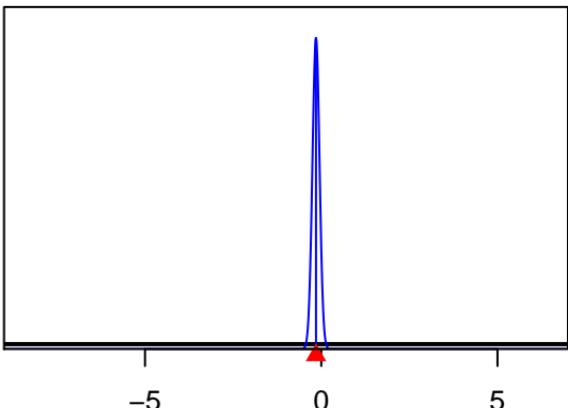
SizeSpline\_Val\_6\_F11-NOA\_N(11)

Density

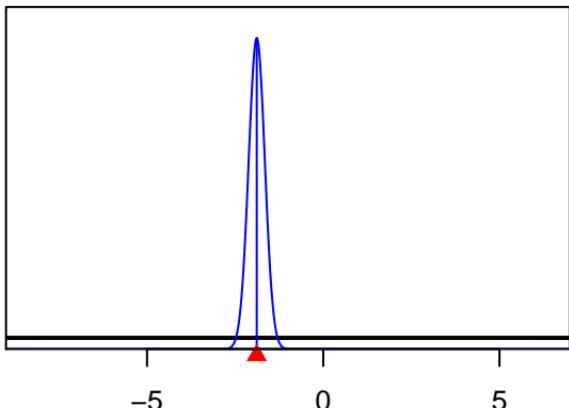


SizeSpline\_Val\_4\_F11-NOA\_N(11)

Parameter value

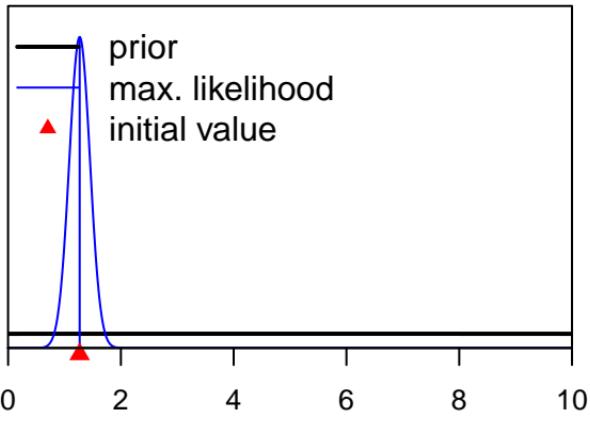


SizeSpline\_Val\_7\_F11-NOA\_N(11)

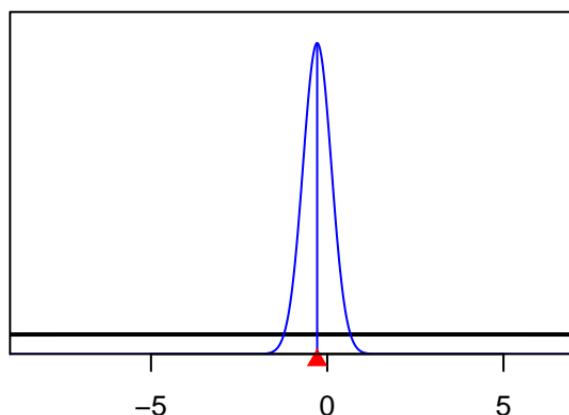


SizeSpline\_GradLo\_F12-NOA\_C(12)

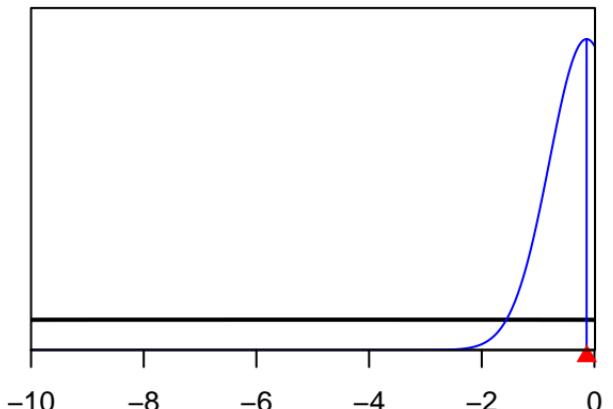
Density



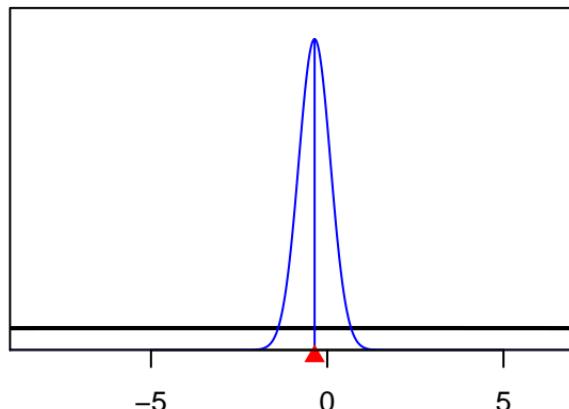
SizeSpline\_Val\_2\_F12-NOA\_C(12)



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



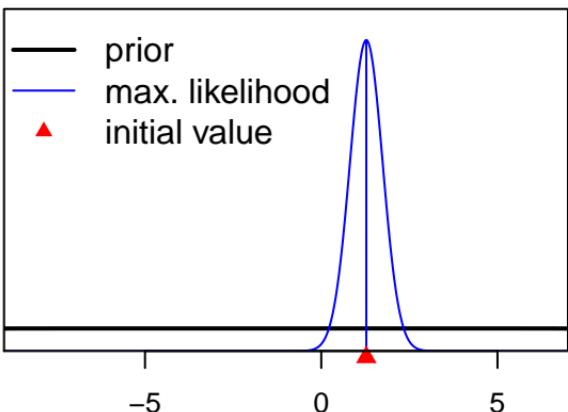
SizeSpline\_Val\_3\_F12-NOA\_C(12)



Parameter value

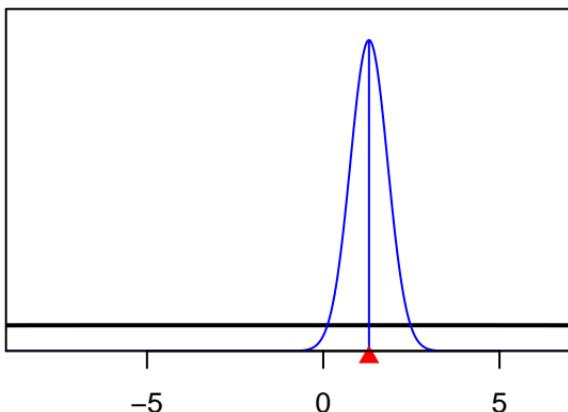
SizeSpline\_Val\_5\_F12-NOA\_C(12)

Density



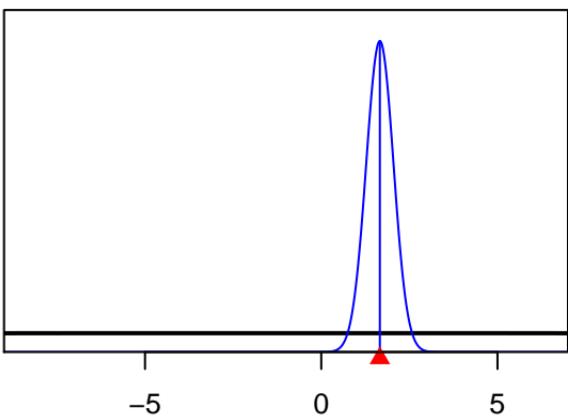
SizeSpline\_Val\_7\_F12-NOA\_C(12)

Density



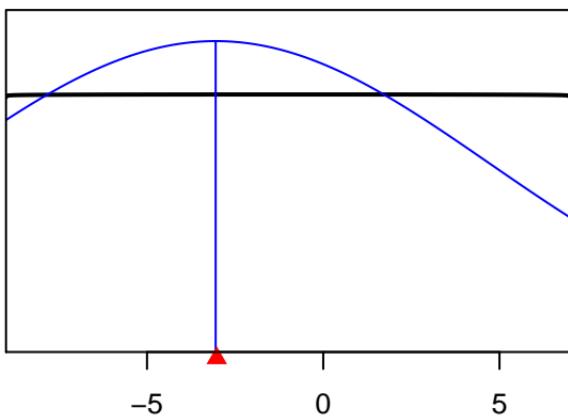
SizeSpline\_Val\_6\_F12-NOA\_C(12)

Parameter value

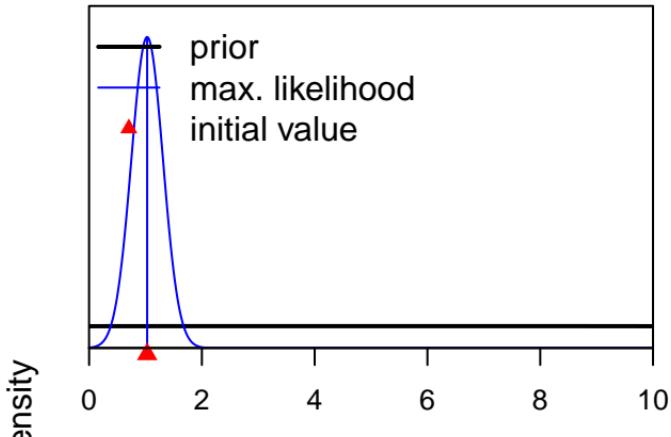


SizeSpline\_Val\_8\_F12-NOA\_C(12)

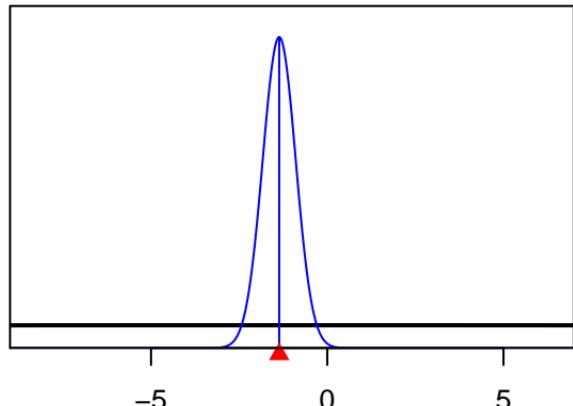
Density



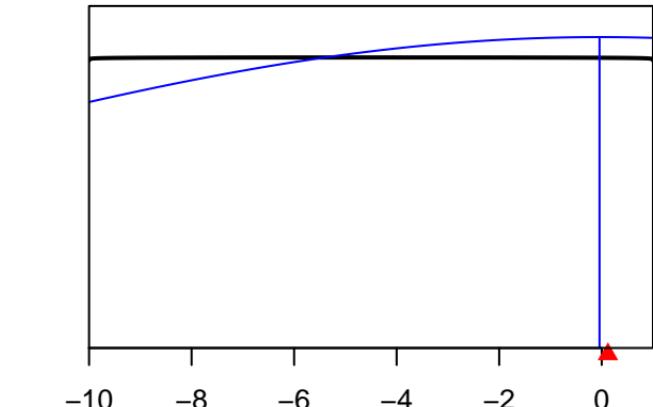
SizeSpline\_GradLo\_F13-NOA\_I(13)



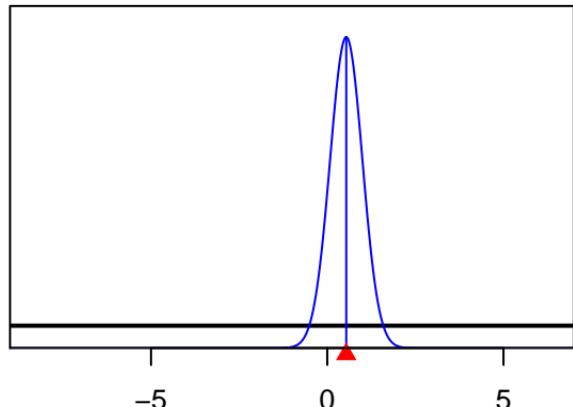
SizeSpline\_Val\_2\_F13-NOA\_I(13)



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

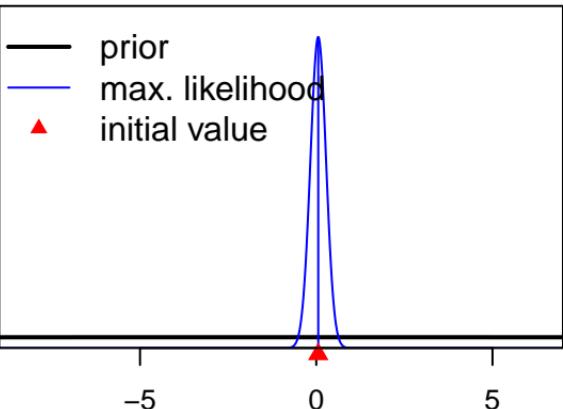


SizeSpline\_Val\_3\_F13-NOA\_I(13)

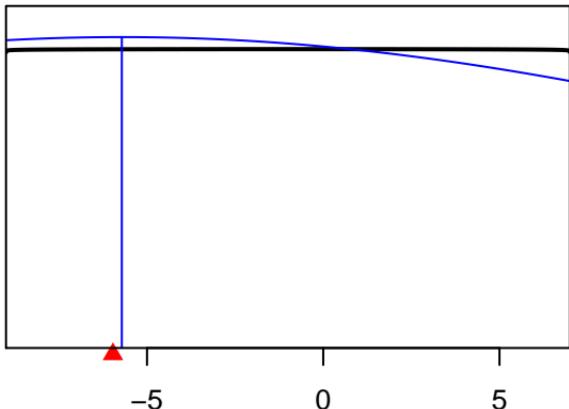


SizeSpline\_Val\_5\_F13–NOA\_I(13)

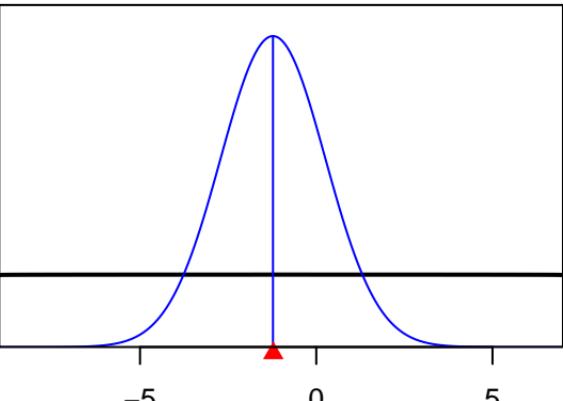
Density



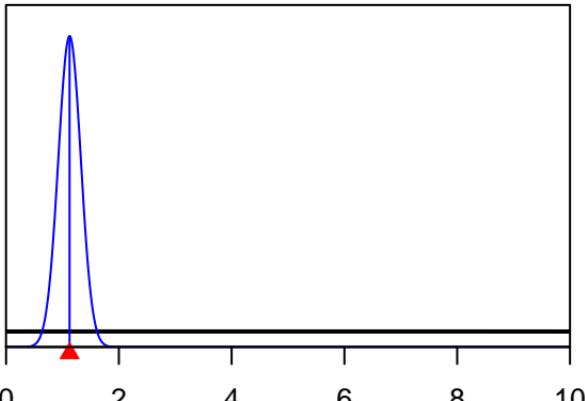
SizeSpline\_Val\_7\_F13–NOA\_I(13)



SizeSpline\_Val\_6\_F13–NOA\_I(13)

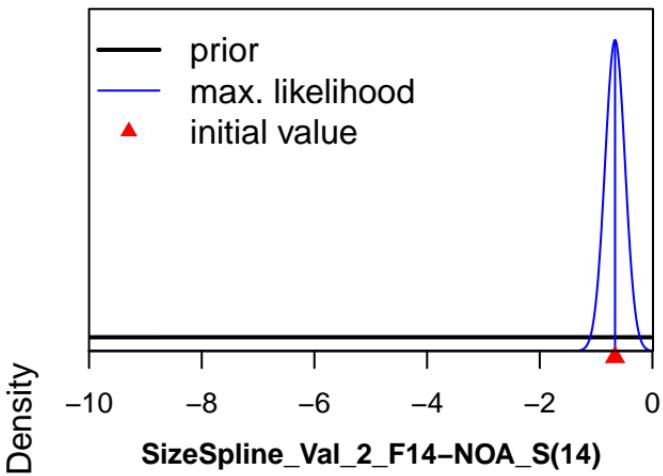


SizeSpline\_GradLo\_F14–NOA\_S(14)

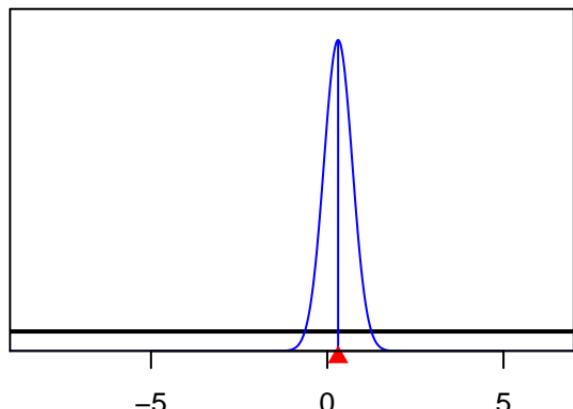


Parameter value

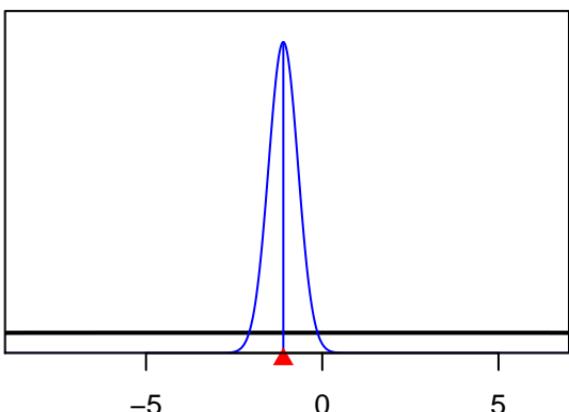
SizeSpline\_GradHi\_F14-NOA\_S(14)



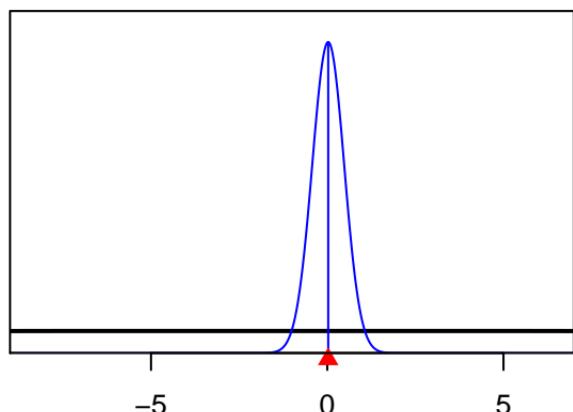
SizeSpline\_Val\_3\_F14-NOA\_S(14)



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



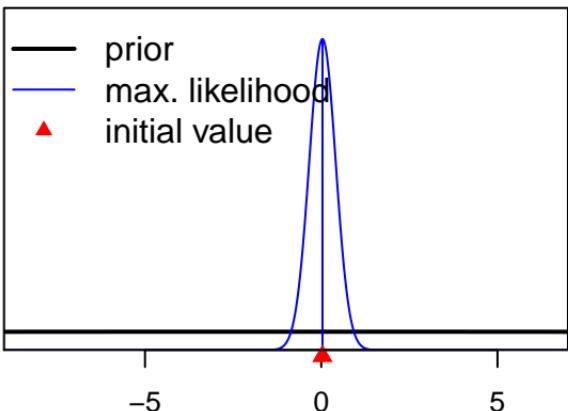
SizeSpline\_Val\_4\_F14-NOA\_S(14)



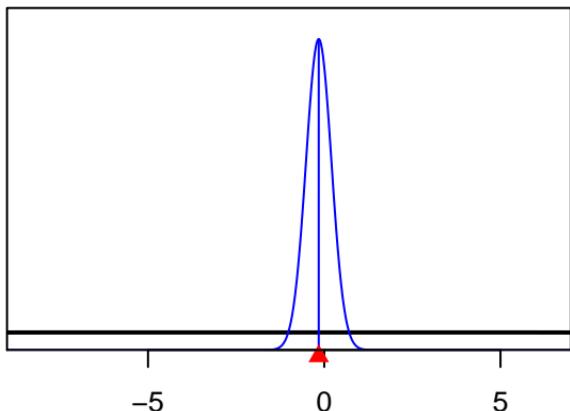
Parameter value

SizeSpline\_Val\_5\_F14–NOA\_S(14)

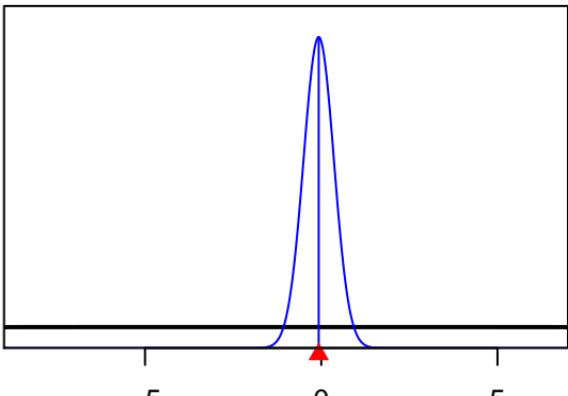
Density



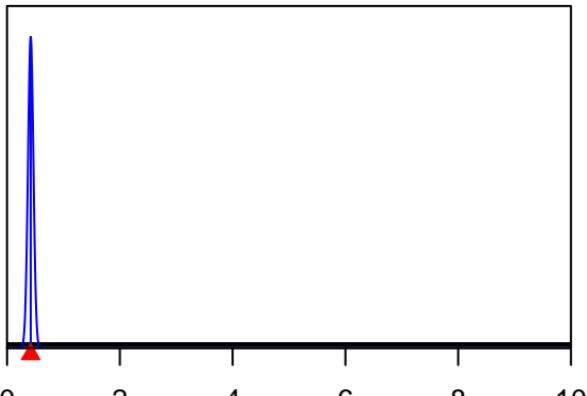
SizeSpline\_Val\_8\_F14–NOA\_S(14)



SizeSpline\_Val\_6\_F14–NOA\_S(14)

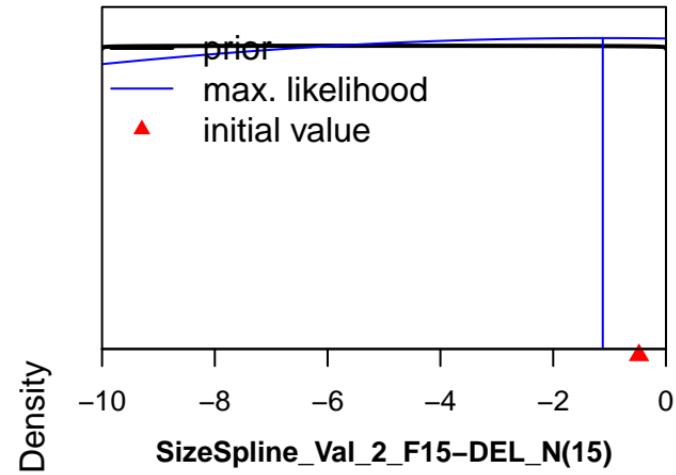


SizeSpline\_GradLo\_F15–DEL\_N(15)

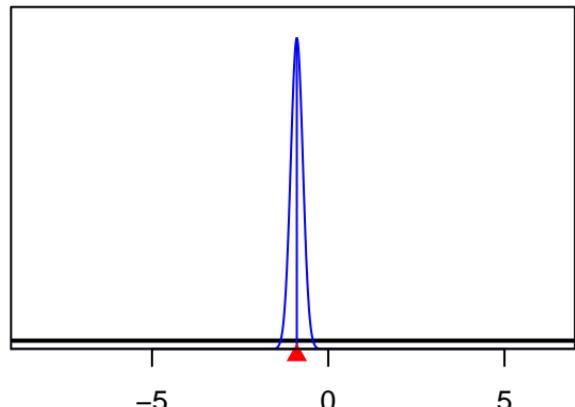


Parameter value

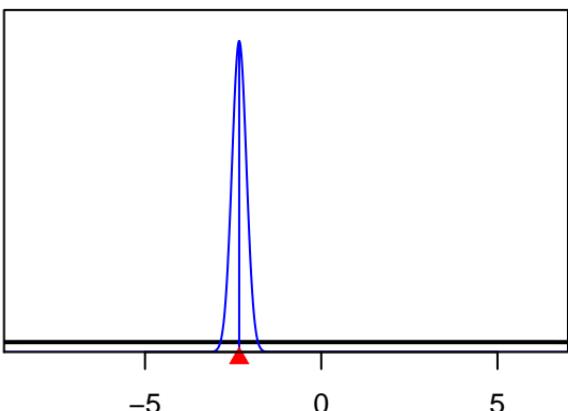
SizeSpline\_GradHi\_F15-DEL\_N(15)



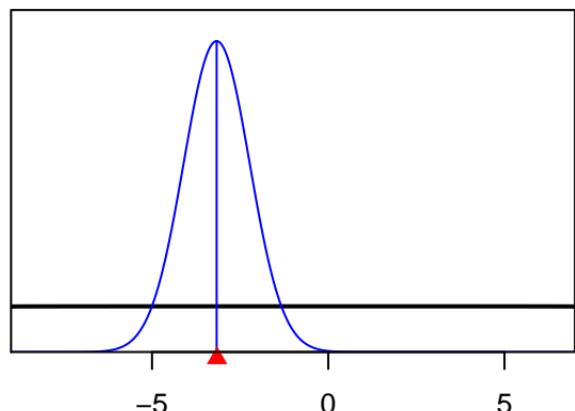
SizeSpline\_Val\_3\_F15-DEL\_N(15)



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



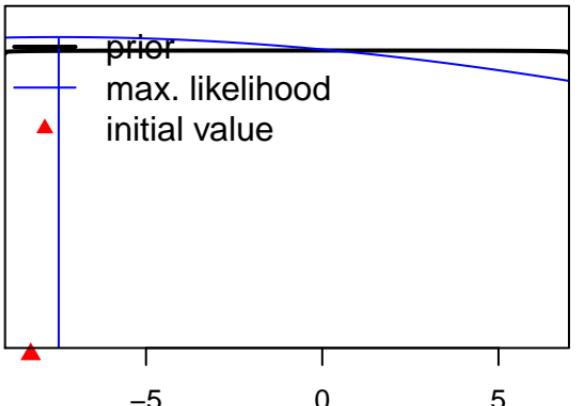
SizeSpline\_Val\_5\_F15-DEL\_N(15)



Parameter value

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

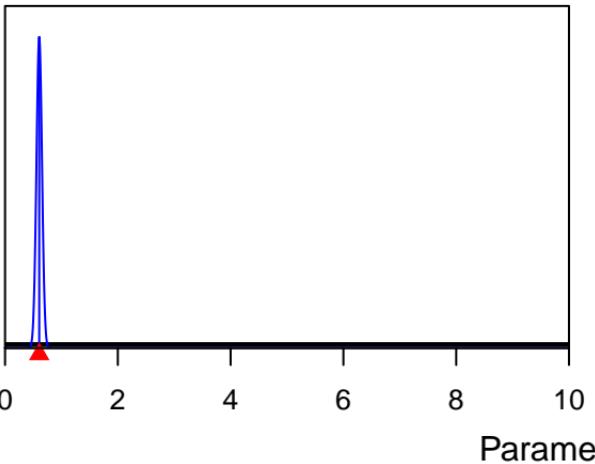
Density



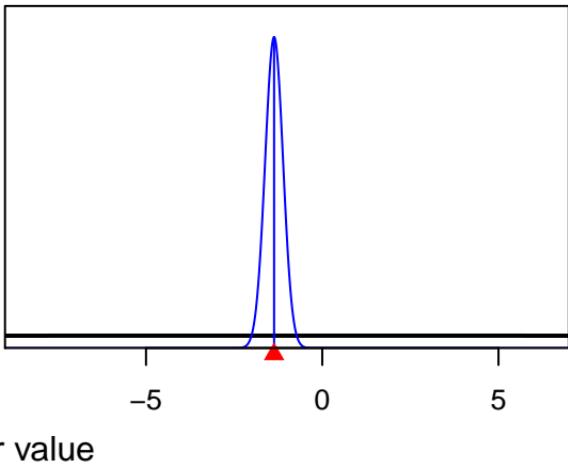
SizeSpline\_GradHi\_F16-DEL\_NE(16)



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

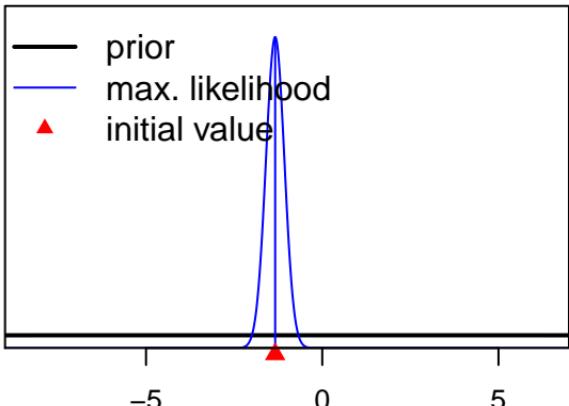


SizeSpline\_Val\_2\_F16-DEL\_NE(16)

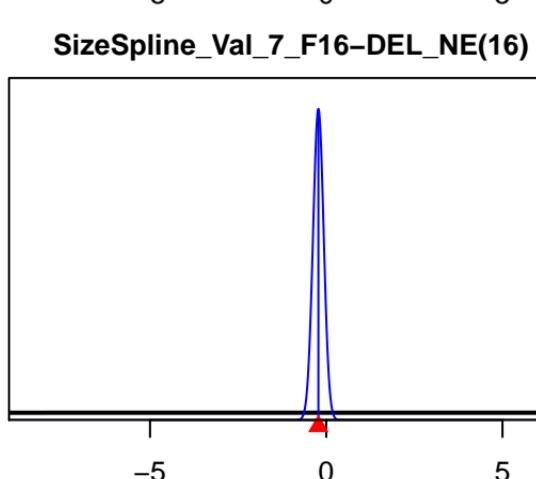


SizeSpline\_Val\_3\_F16-DEL\_NE(16)

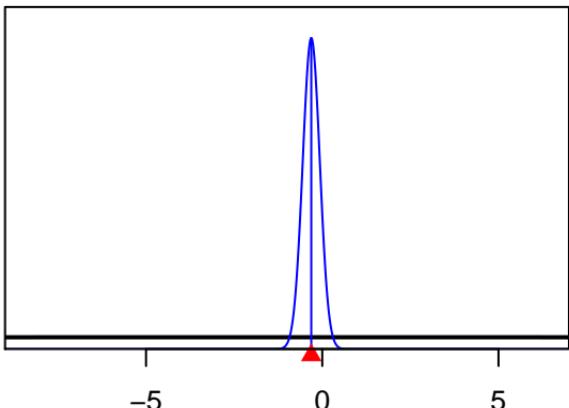
Density



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



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

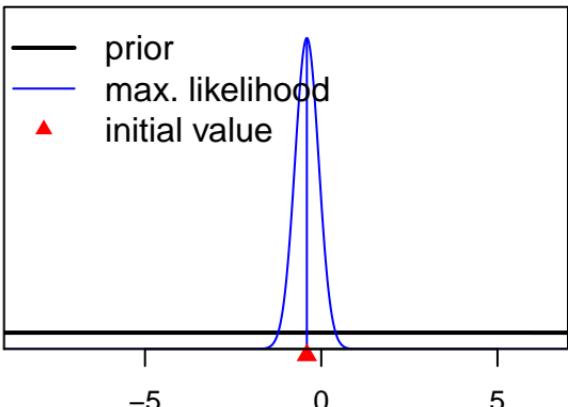


Parameter value

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

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

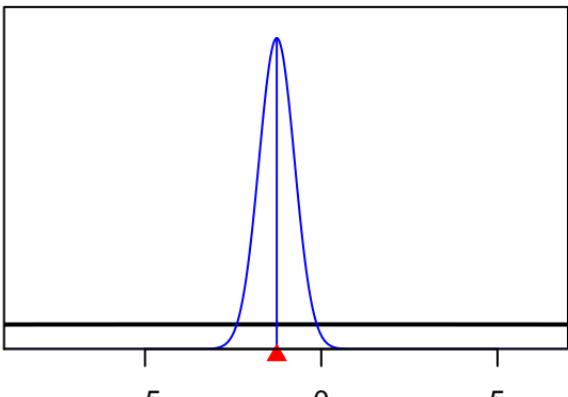
Density



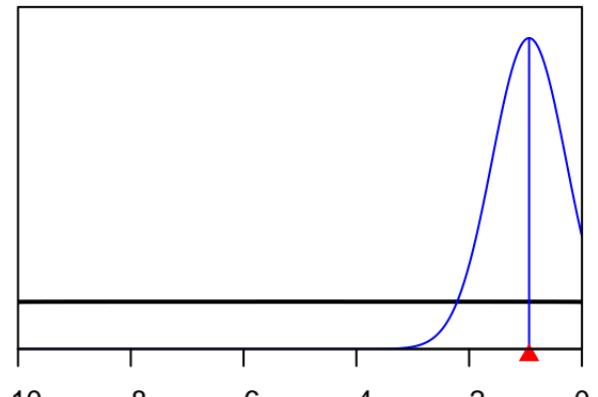
SizeSpline\_GradLo\_F17-DEL\_M(17)



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



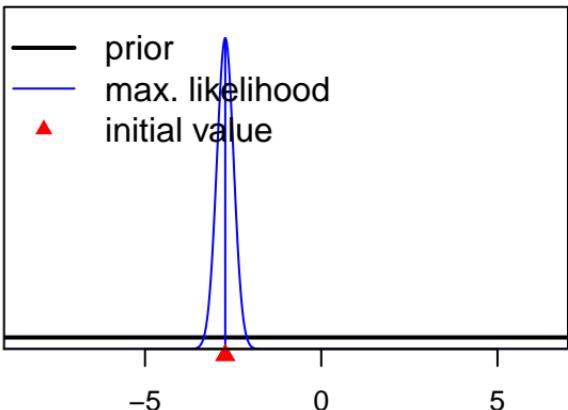
SizeSpline\_GradHi\_F17-DEL\_M(17)



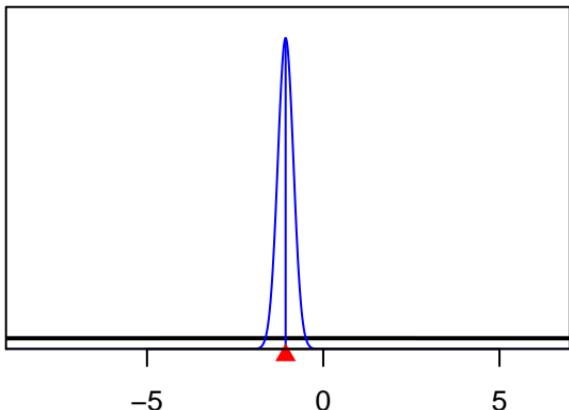
Parameter value

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

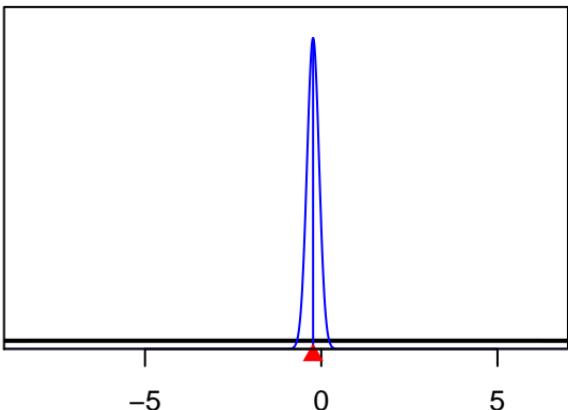
Density



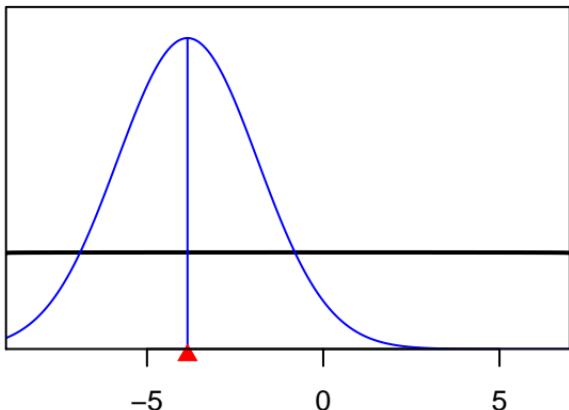
SizeSpline\_Val\_5\_F17-DEL\_M(17)



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

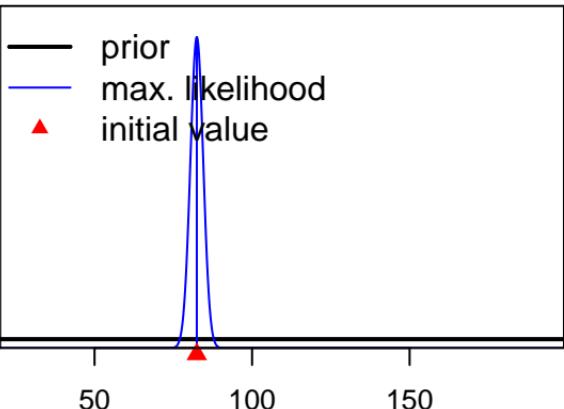


SizeSpline\_Val\_6\_F17-DEL\_M(17)

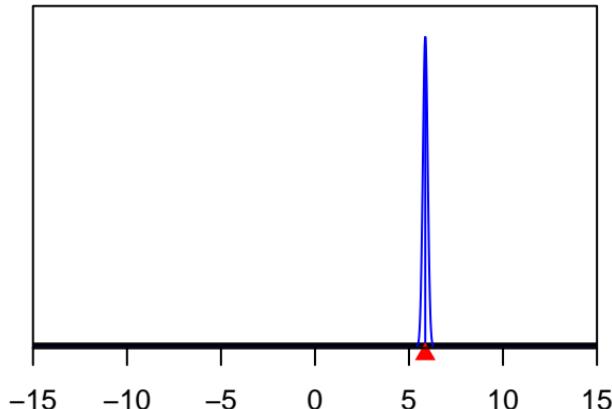


Parameter value

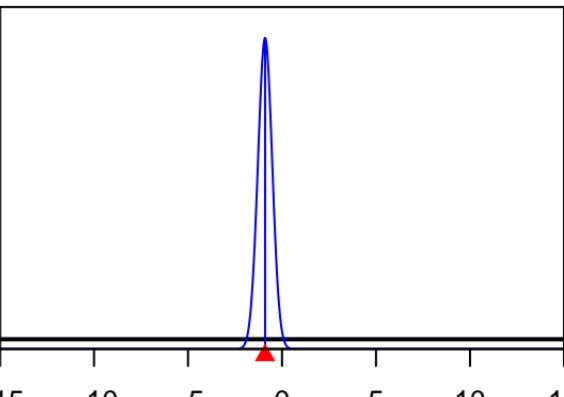
Size\_DbIN\_peak\_F18-DEL\_C(18)



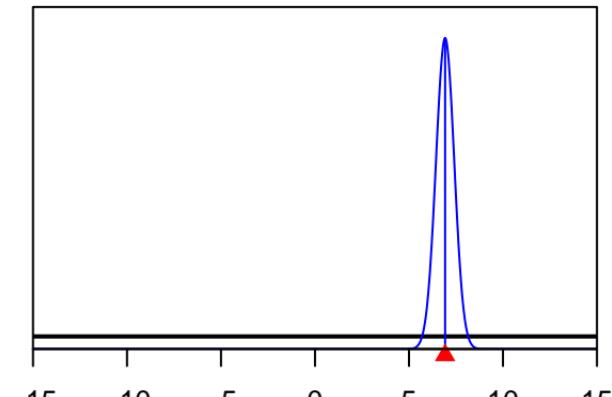
Size\_DbIN\_ascend\_se\_F18-DEL\_C(18)



Size\_DbIN\_top\_logit\_F18-DEL\_C(18)

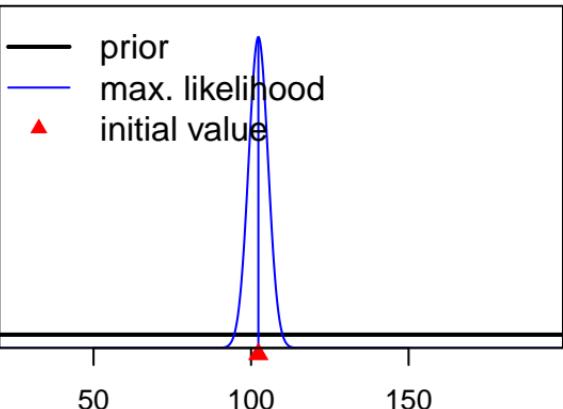


Size\_DbIN\_descend\_se\_F18-DEL\_C(18)

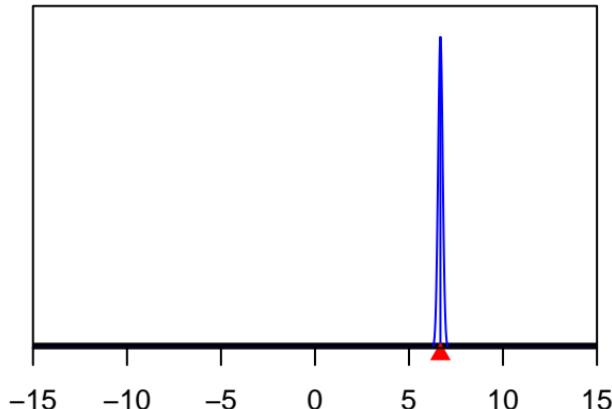


Parameter value

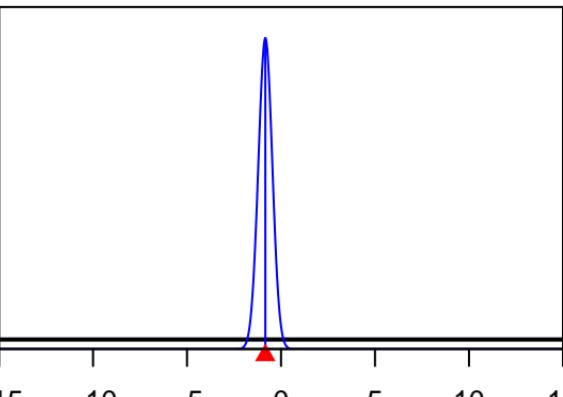
Size\_DbIN\_peak\_F19-DEL\_P(19)



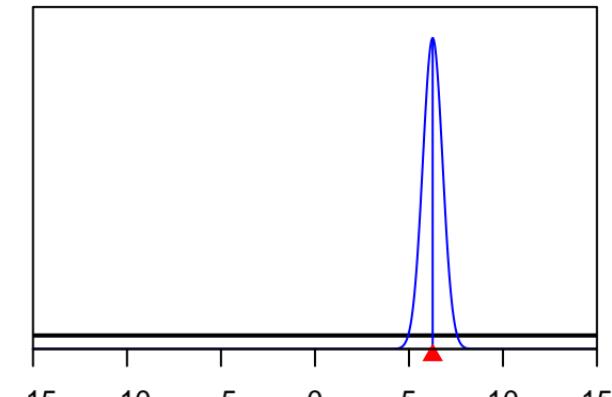
Size\_DbIN\_ascend\_se\_F19-DEL\_P(19)



Size\_DbIN\_top\_logit\_F19-DEL\_P(19)

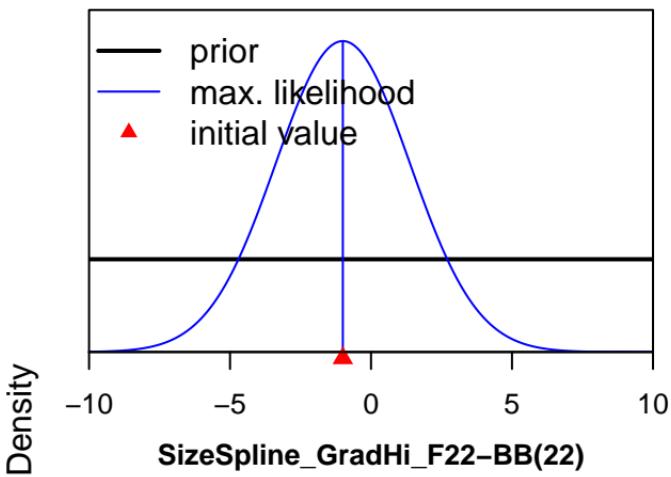


Size\_DbIN\_descend\_se\_F19-DEL\_P(19)

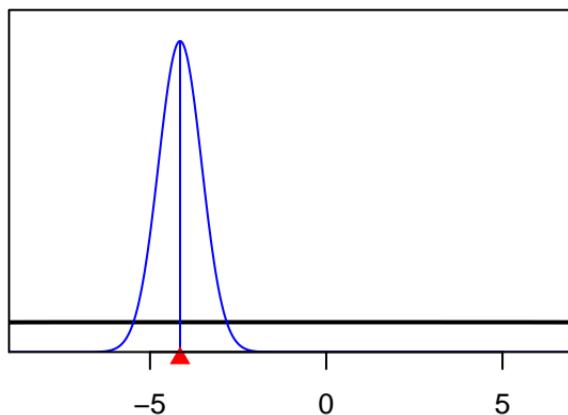


Parameter value

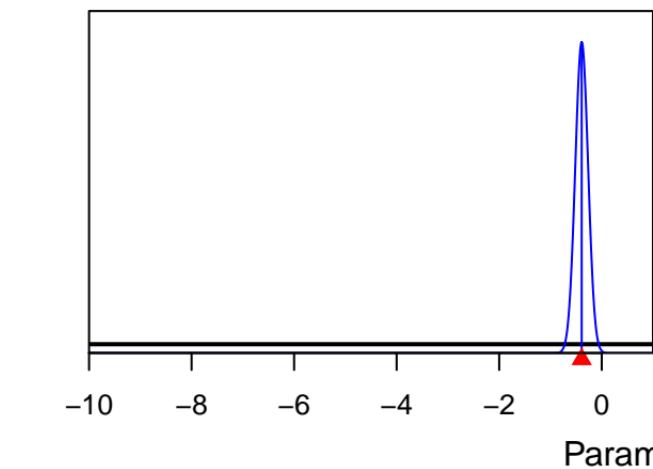
SizeSpline\_GradLo\_F22-BB(22)



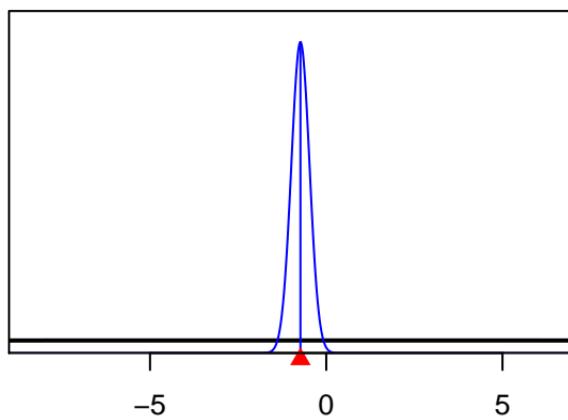
SizeSpline\_Val\_2\_F22-BB(22)



SizeSpline\_GradHi\_F22-BB(22)



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

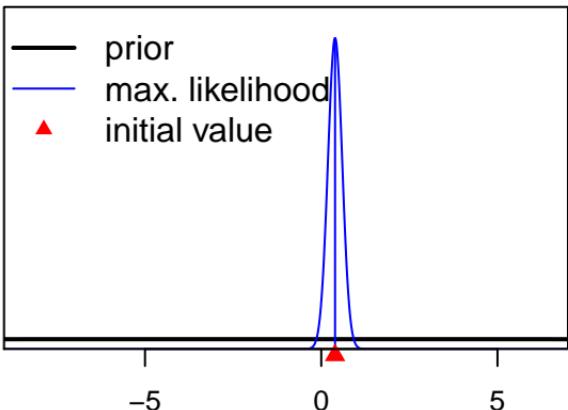


Parameter value

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

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

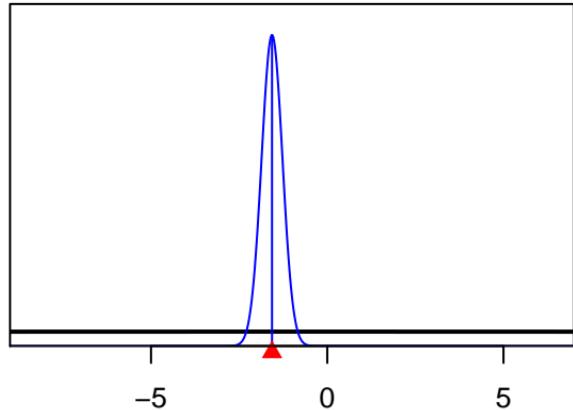
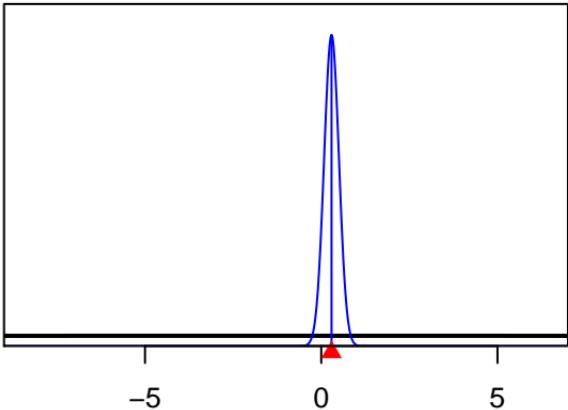
Density



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

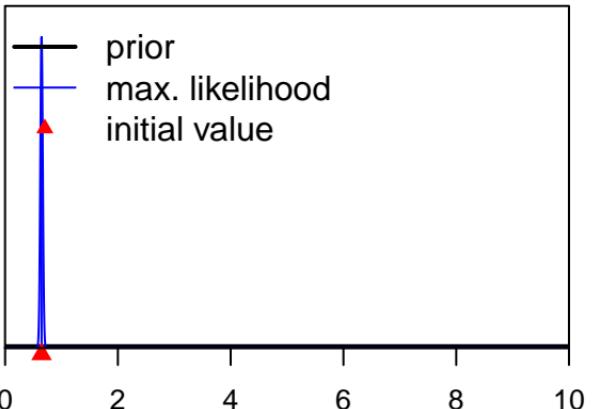
SizeSpline\_Val\_8\_F22-BB(22)

Parameter value

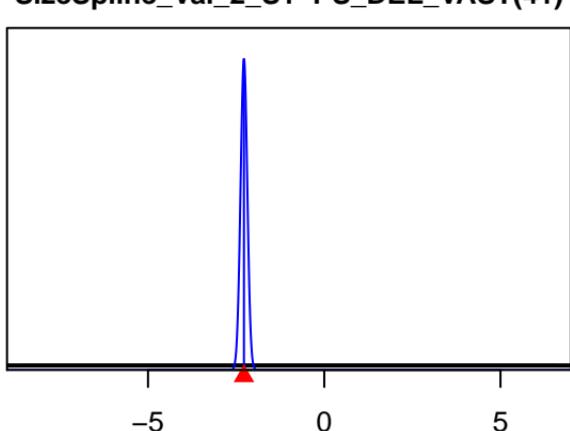


**SizeSpline\_GradLo\_S1-PS\_DEL\_VAST(41)**

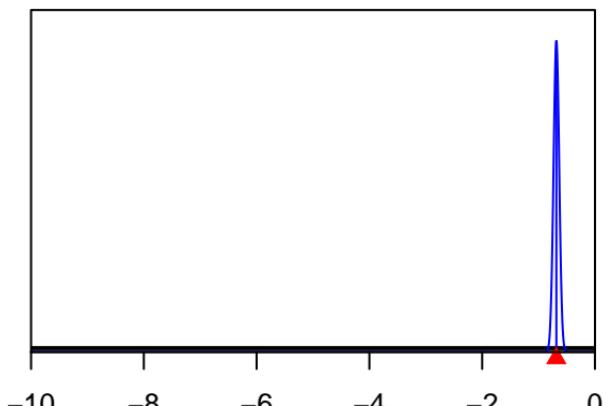
Density



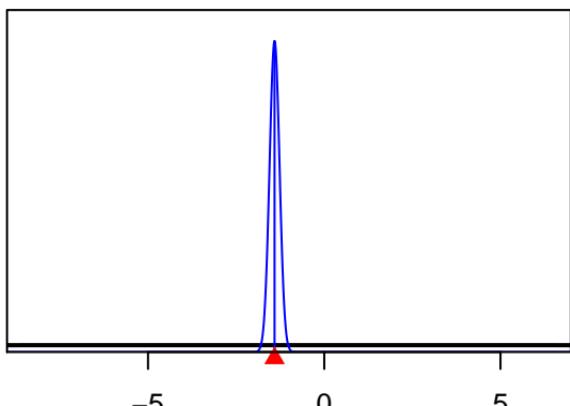
**SizeSpline\_Val\_2\_S1-PS\_DEL\_VAST(41)**



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



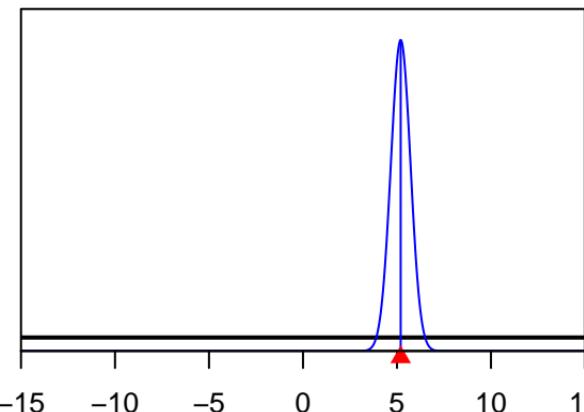
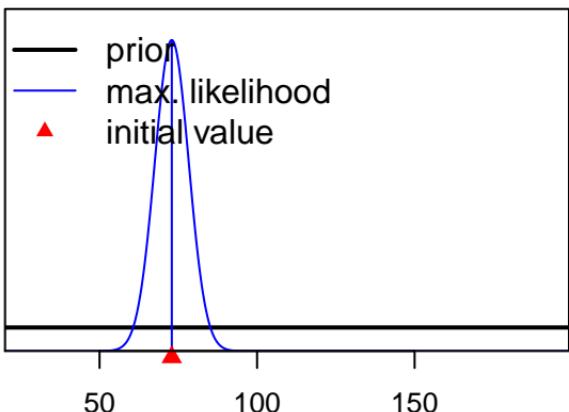
**SizeSpline\_Val\_4\_S1-PS\_DEL\_VAST(41)**



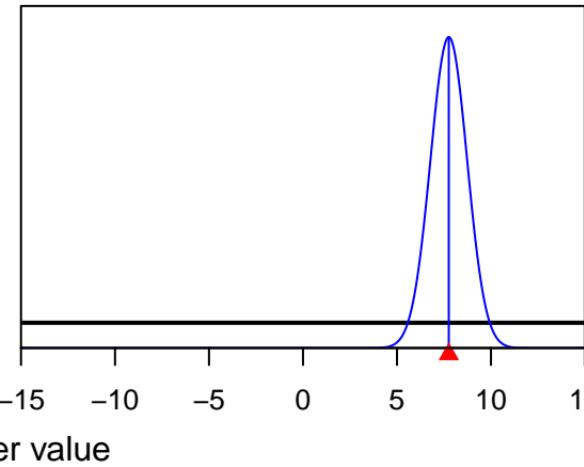
Parameter value

Size\_DbIN\_peak\_F18-DEL\_C(18)\_BLK2rep1\_11>\_DbIN\_ascend\_se\_F18-DEL\_C(18)\_BLK2rep1

Density

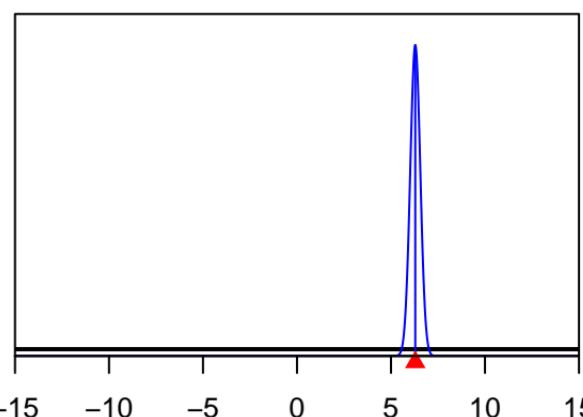
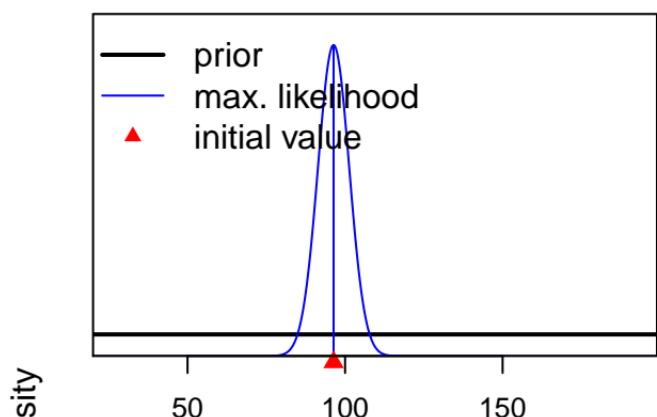


:e\_DbIN\_top\_logit\_F18-DEL\_C(18)\_BLK2rep1\_1\_DbIN\_descend\_se\_F18-DEL\_C(18)\_BLK2rep1

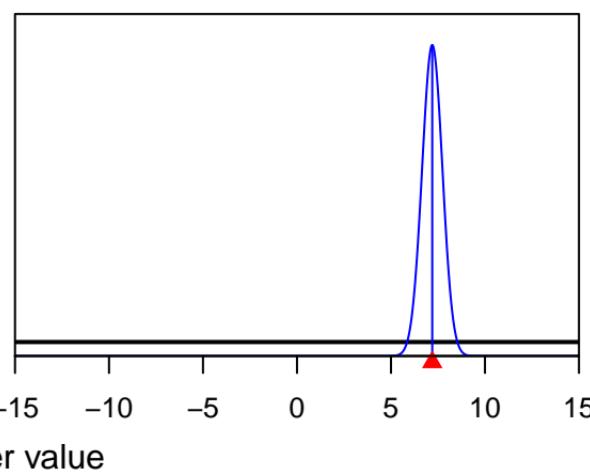
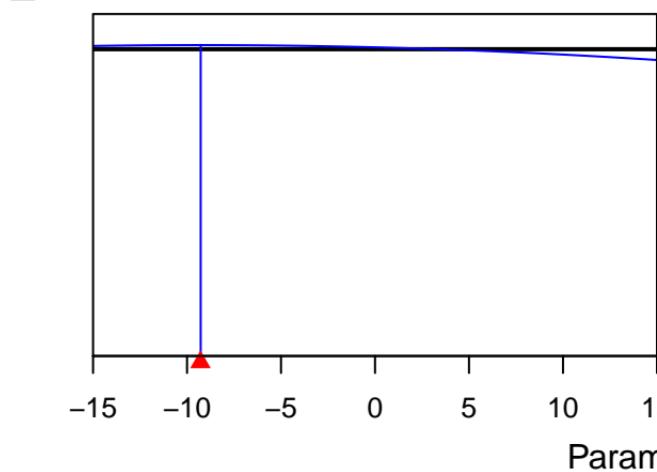


Parameter value

Size\_DbIN\_peak\_F19-DEL\_P(19)\_BLK2rep1\_11\_DbIN\_ascend\_se\_F19-DEL\_P(19)\_BLK2rep1

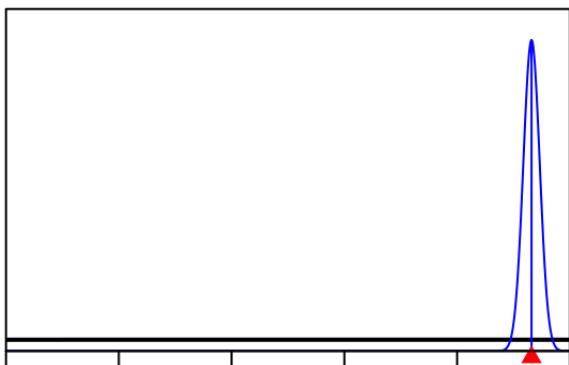
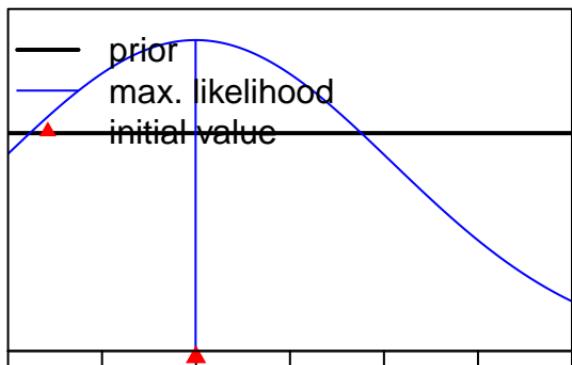


:e\_DbIN\_top\_logit\_F19-DEL\_P(19)\_BLK2rep1\_1\_DbIN\_descend\_se\_F19-DEL\_P(19)\_BLK2rep1



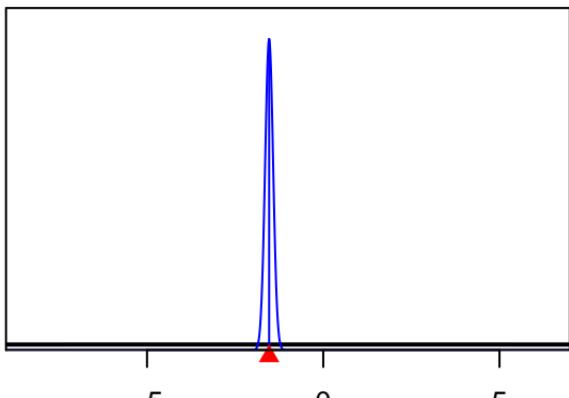
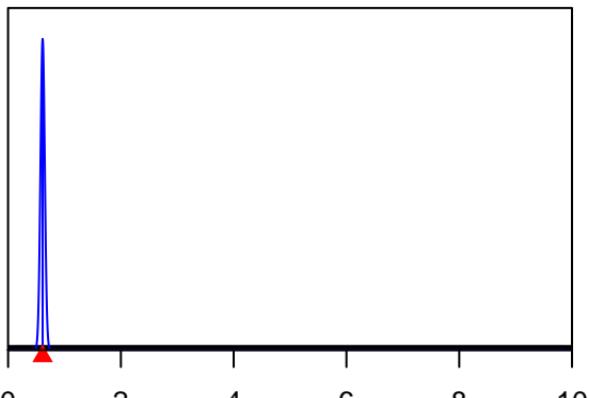
Parameter value

e\_DbIN\_end\_logit\_F19-DEL\_P(19)\_BLK2rep1pline\_GradHi\_S1-PS\_DEL\_VAST(41)\_BLK2rep



Density

pline\_GradLo\_S1-PS\_DEL\_VAST(41)\_BLK2repSpline\_Val\_3\_S1-PS\_DEL\_VAST(41)\_BLK2rep



Parameter value

# Spline\_Val\_4\_S1-PS\_DEL\_VAST(41)\_BLK2repl

