

EPO yellowfin tuna
Benchmark assessment 2020
model: TBM, $h = 0.7$

Plots created using the 'r4ss' package in R

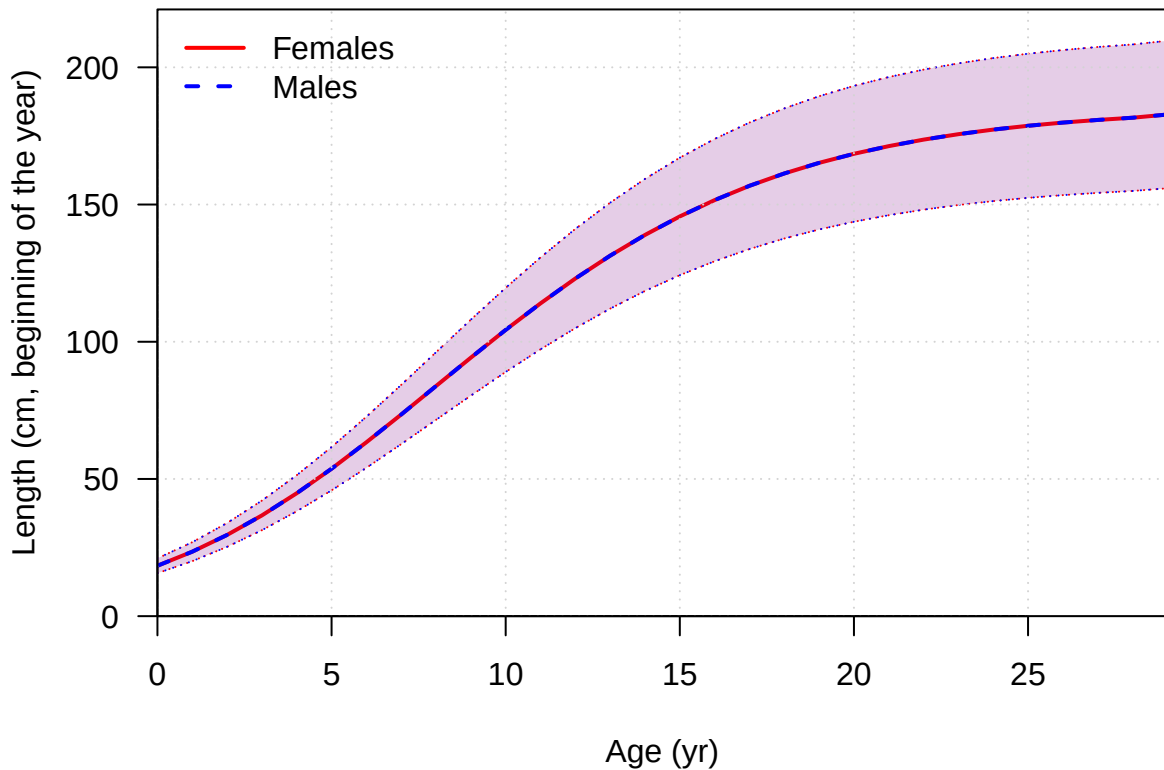
Stock Synthesis version: 3.30.15.0

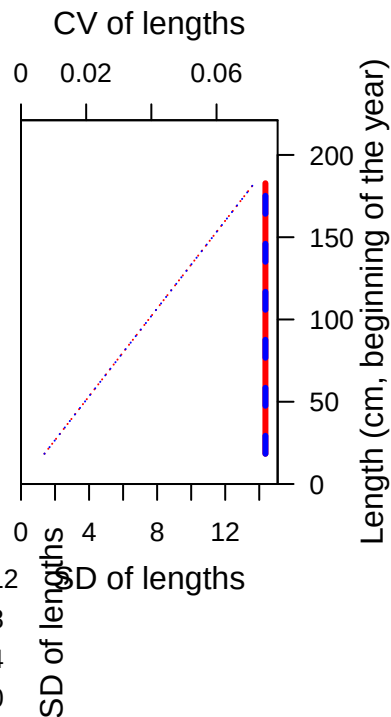
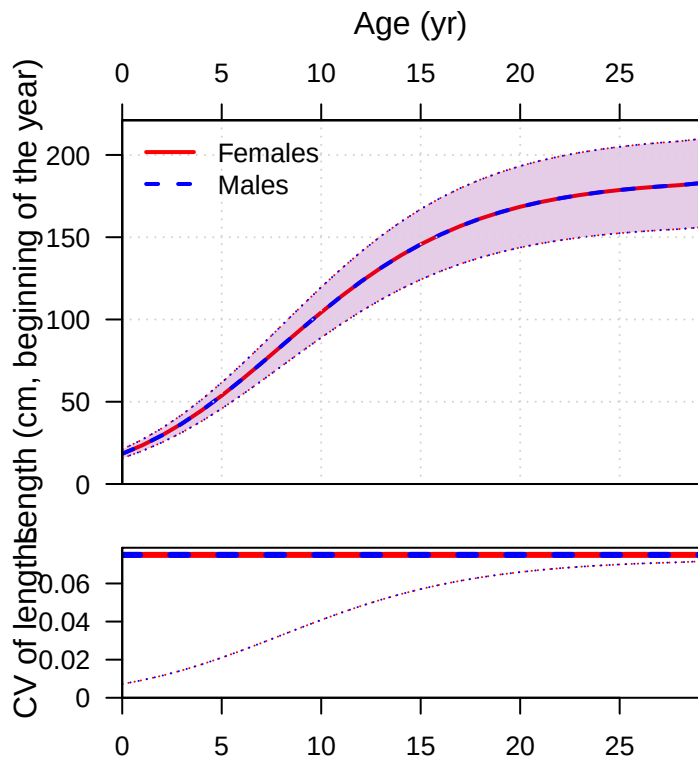
StartTime: Mon Jul 20 19:22:43 2020

Data_File: YFT-EPO.dat

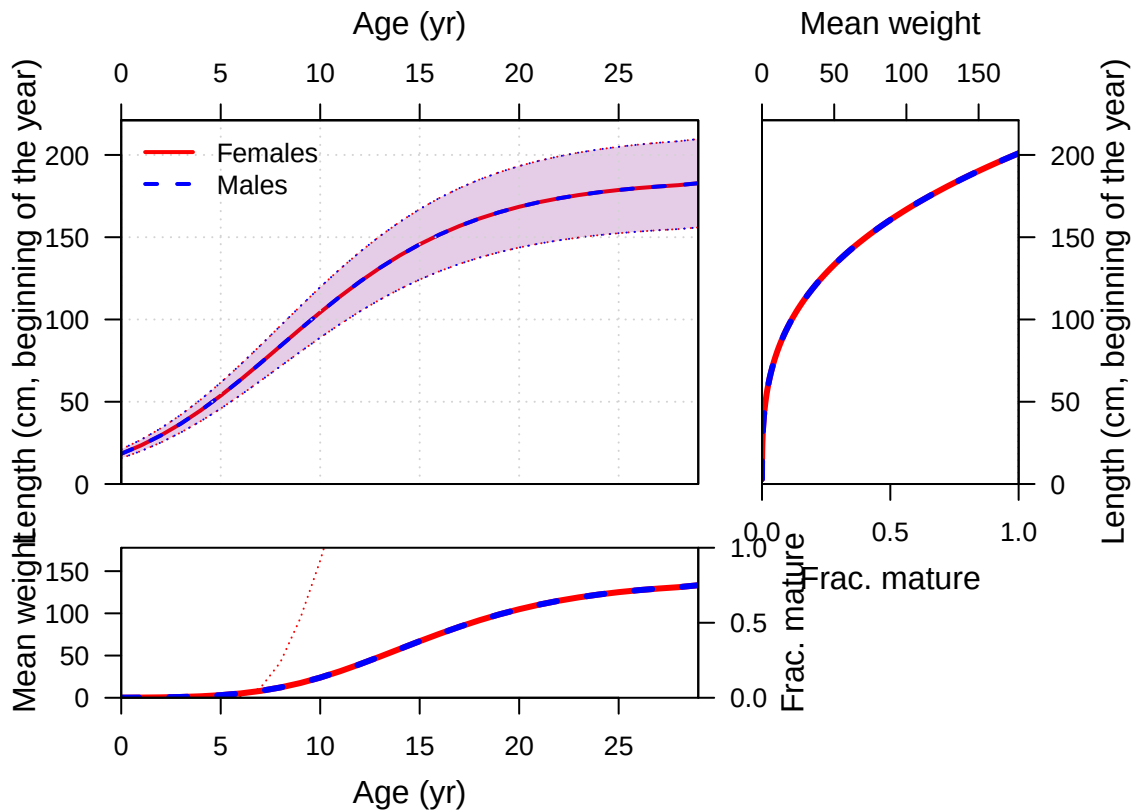
Control_File: YFT-EPO.ctf

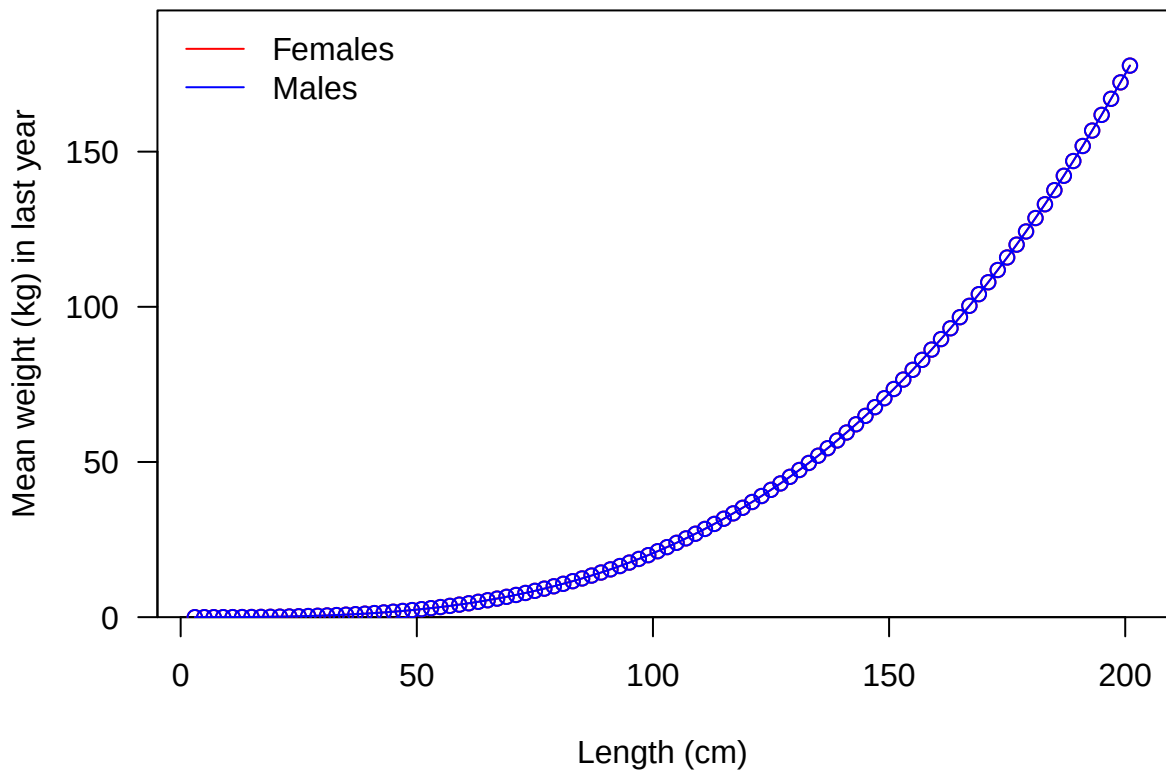
Ending year expected growth (with 95% intervals)

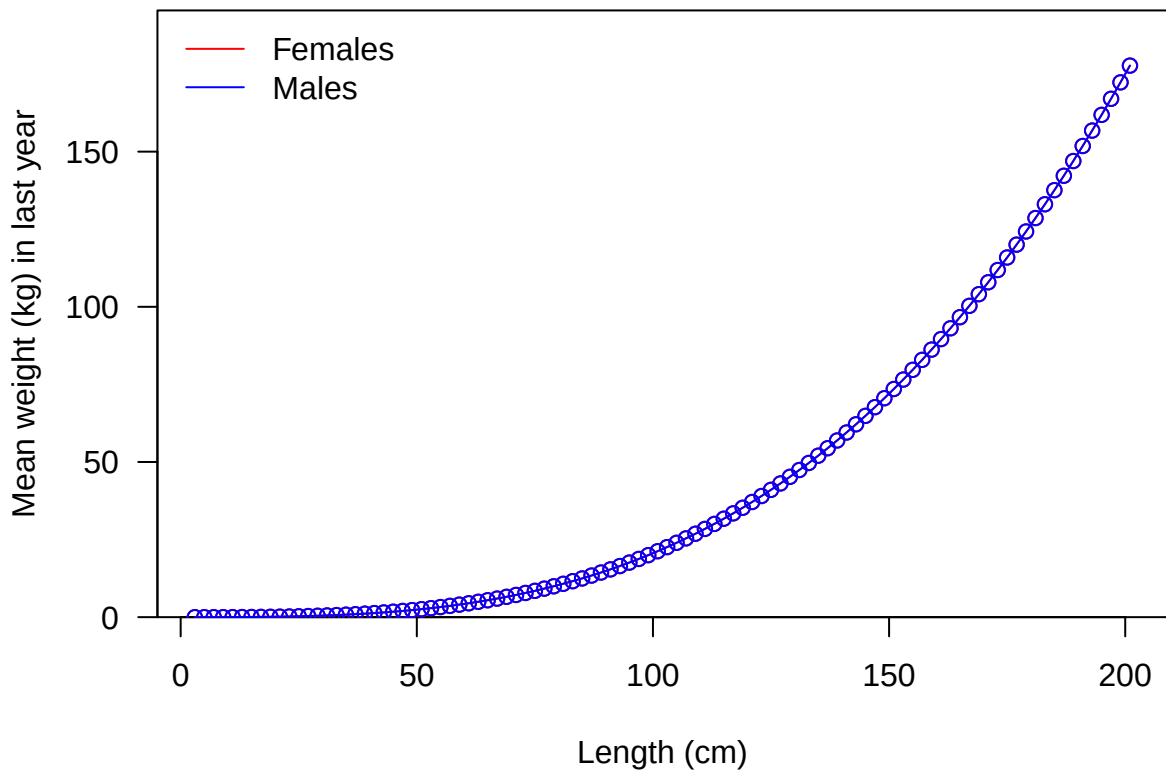


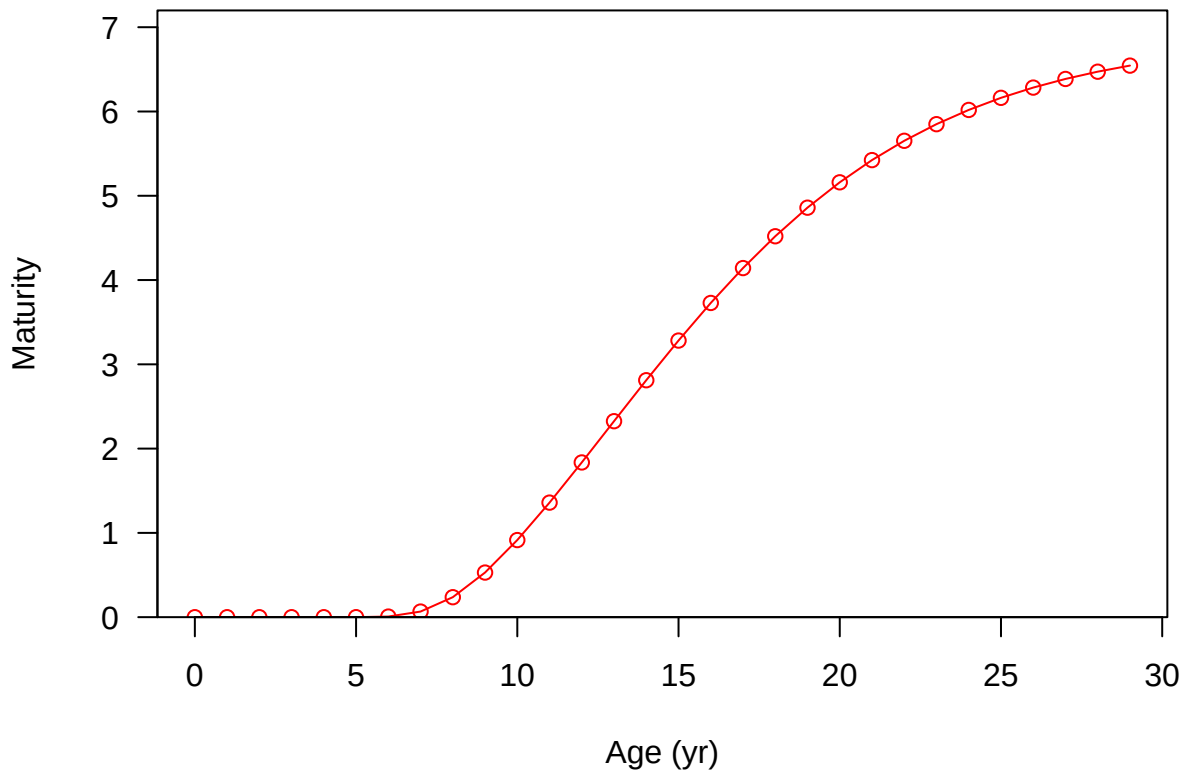


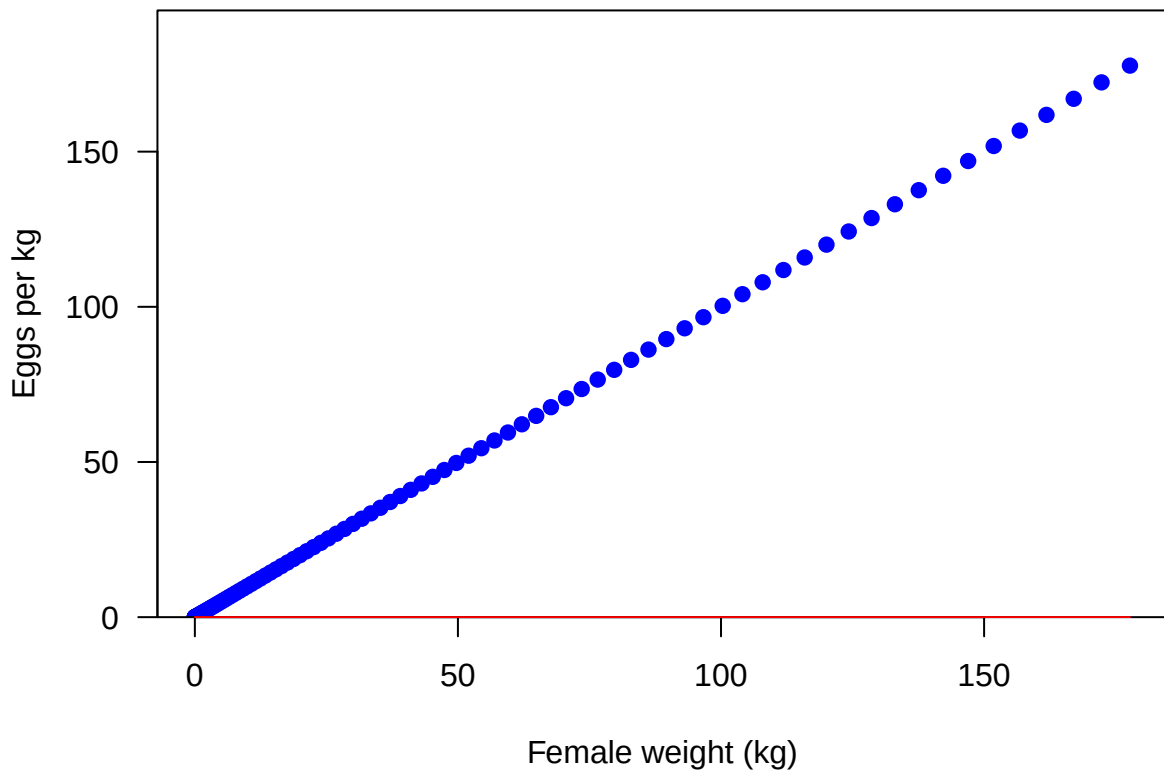
Age (yr)

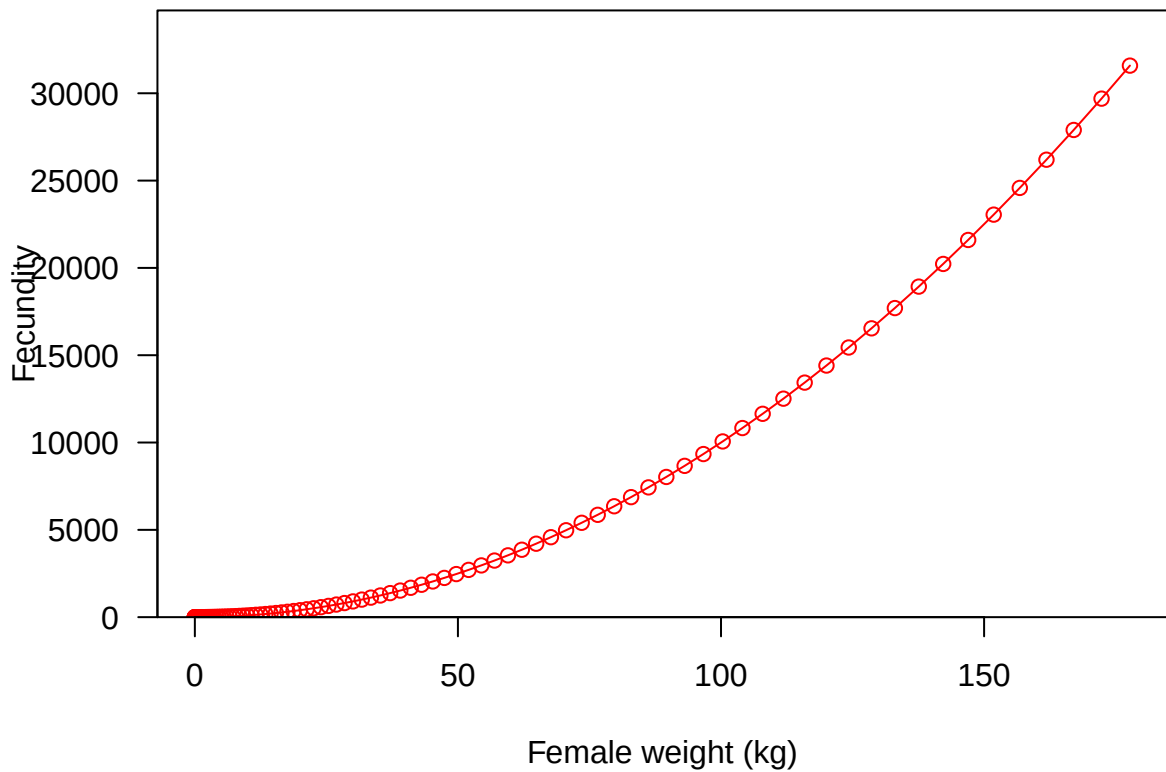


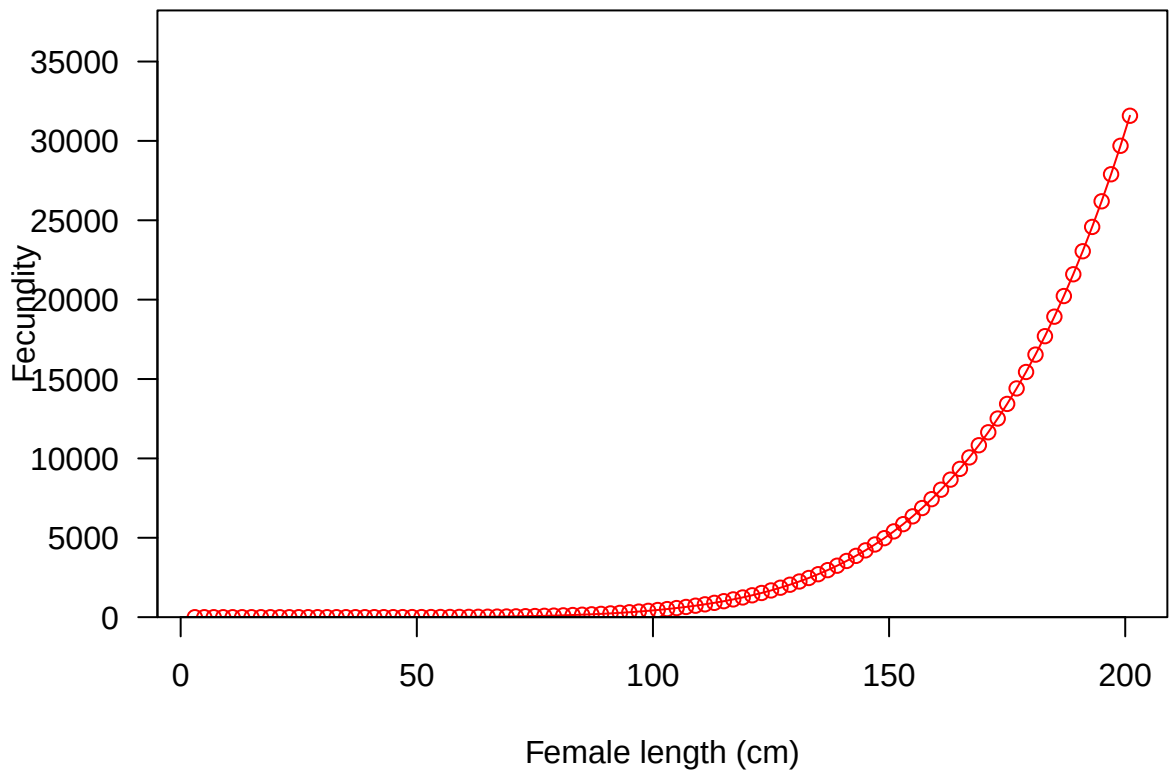


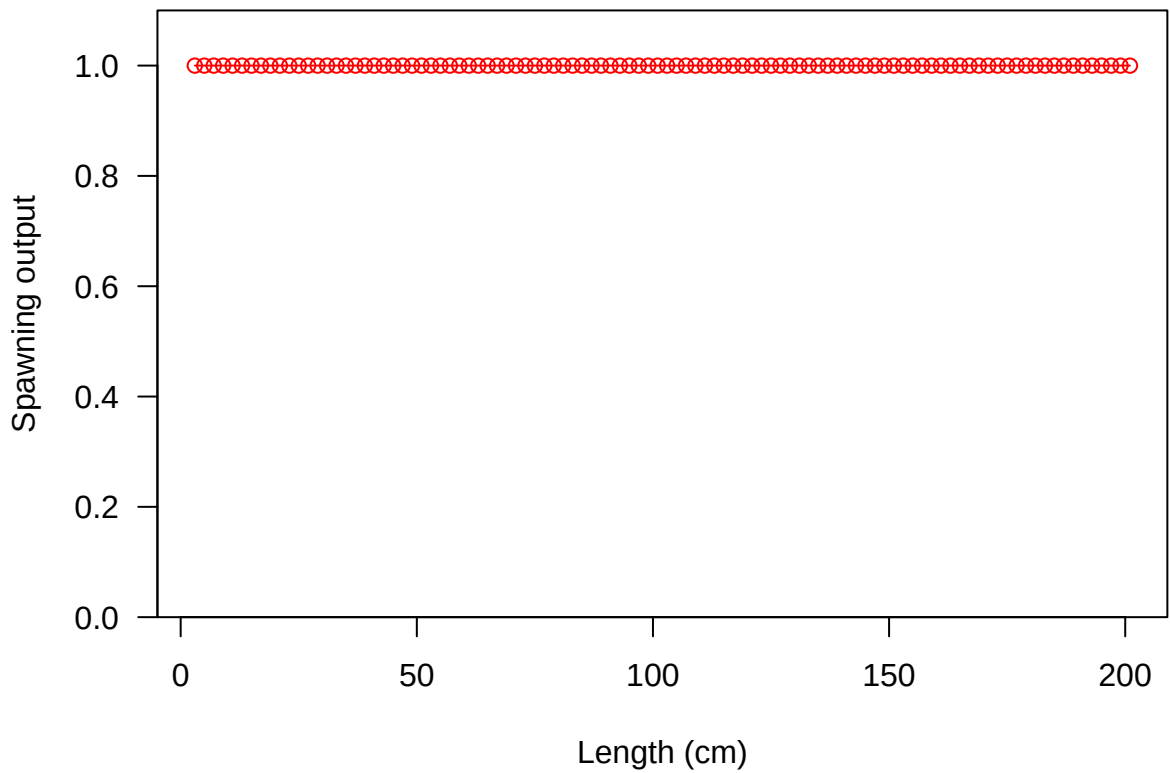


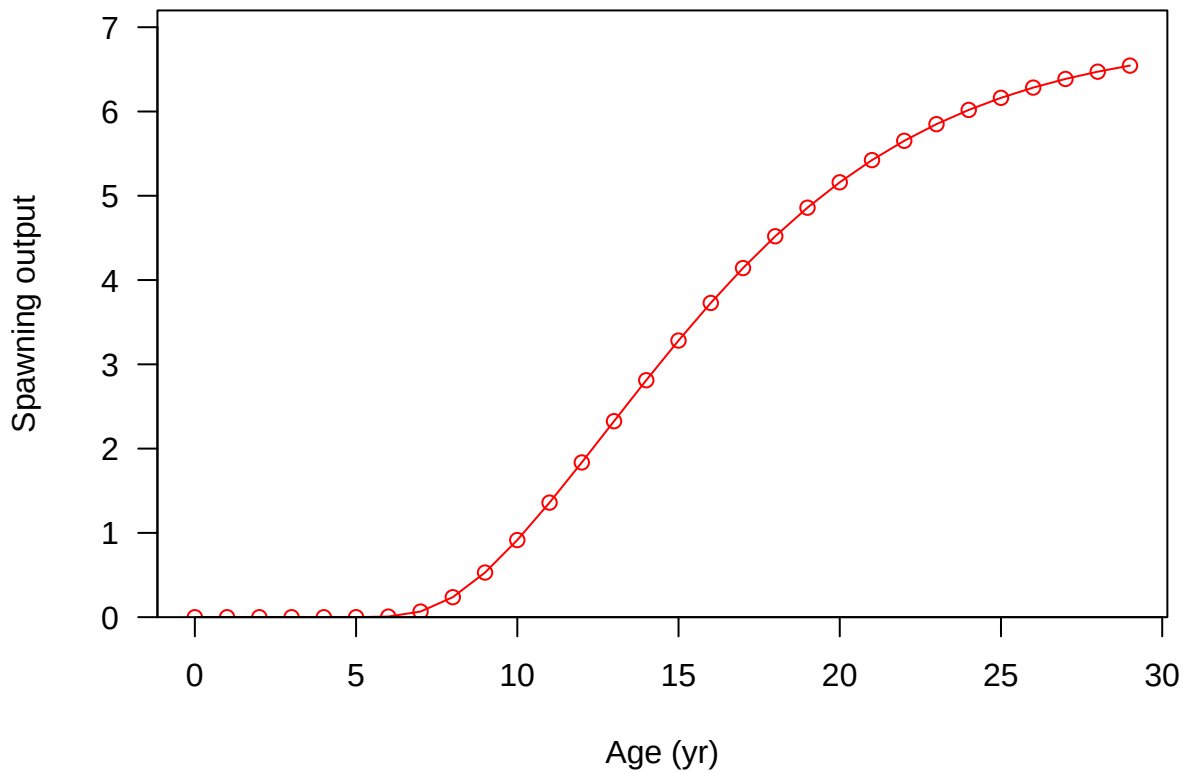




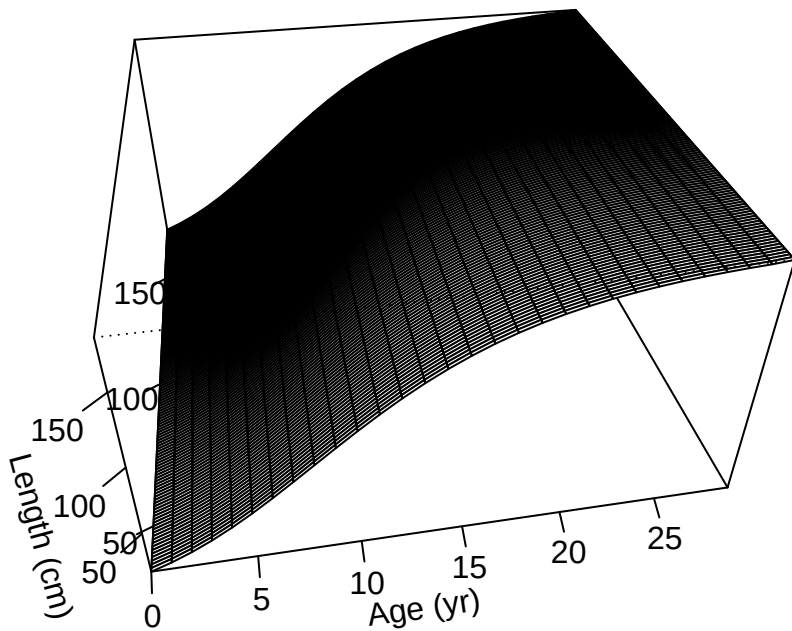




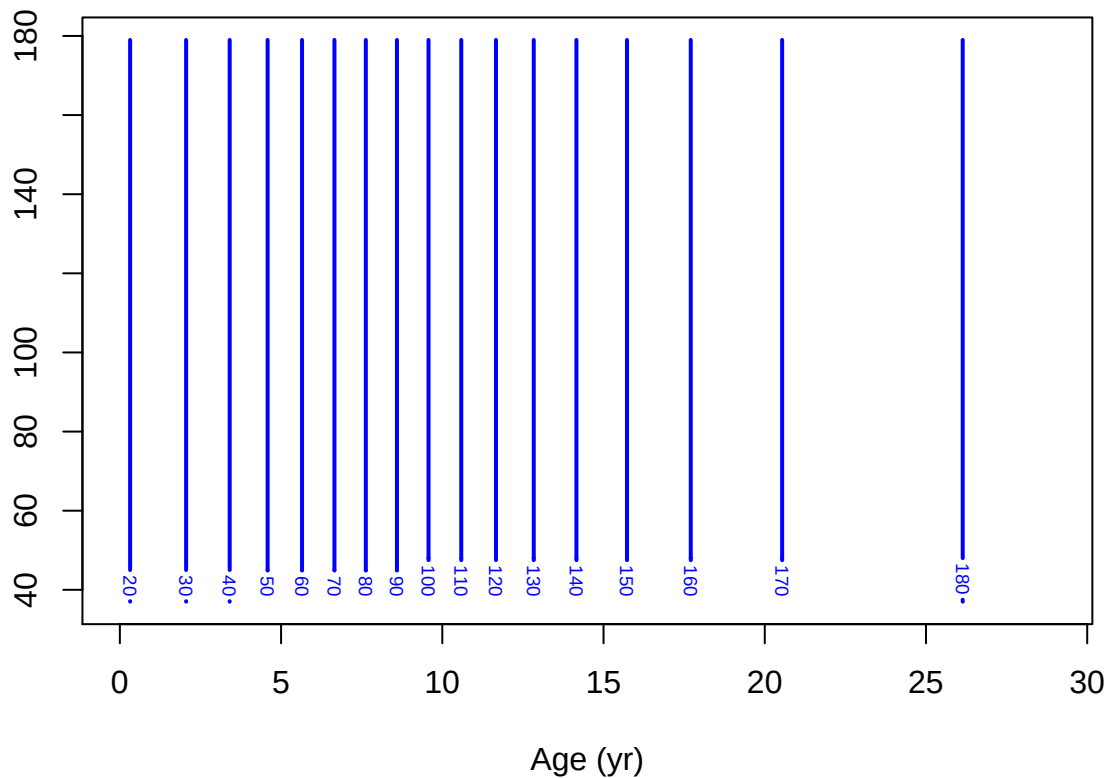




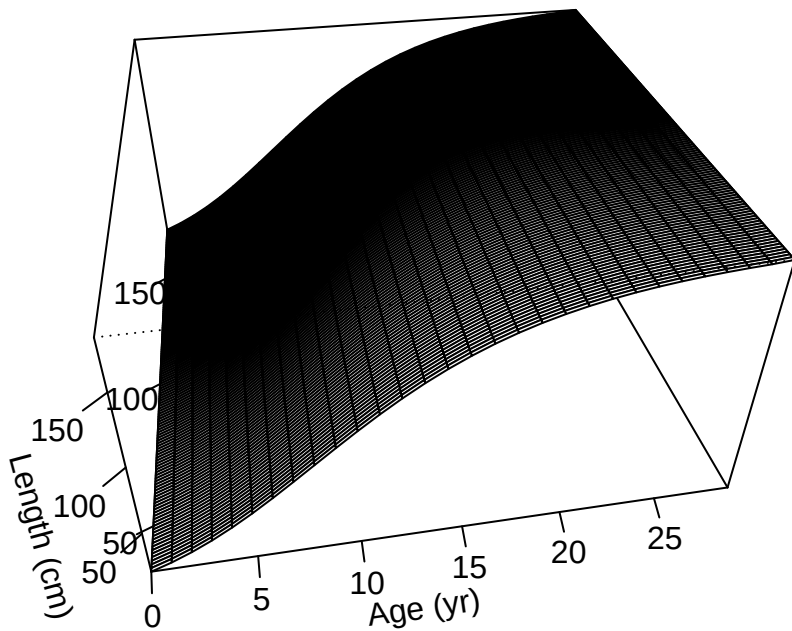
Female time-varying growth



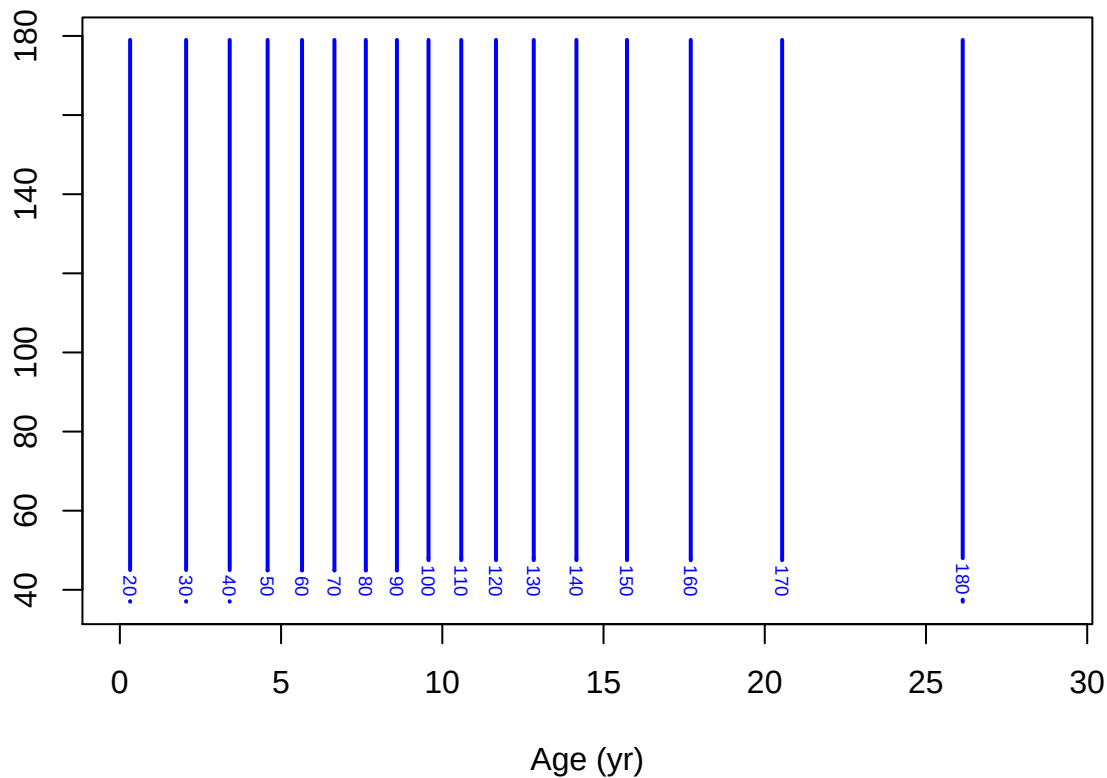
Female time-varying growth



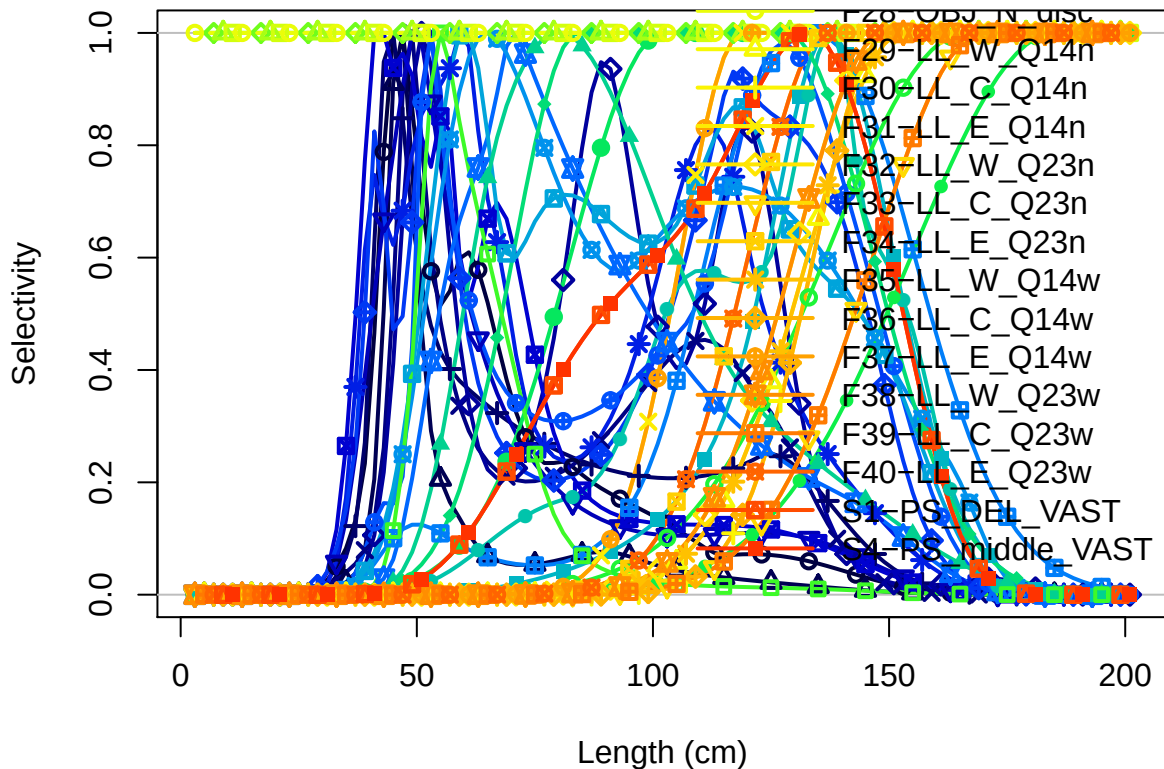
Male time-varying growth



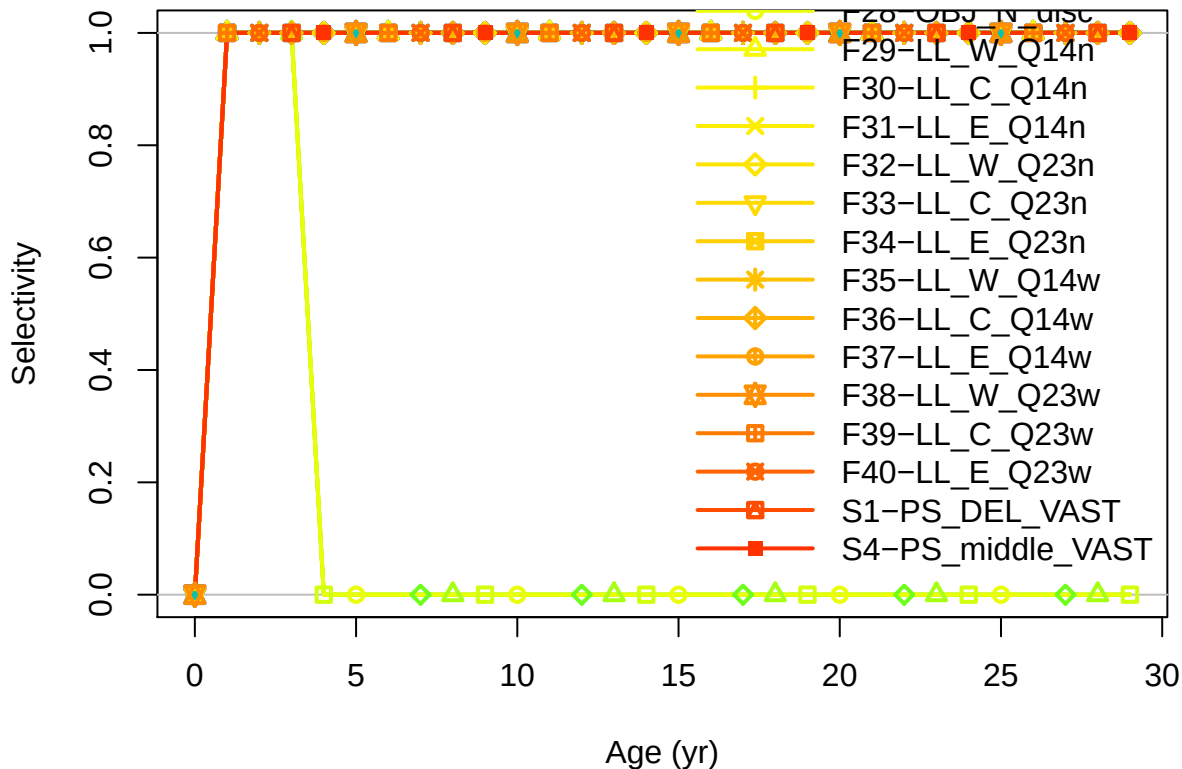
Male time-varying growth



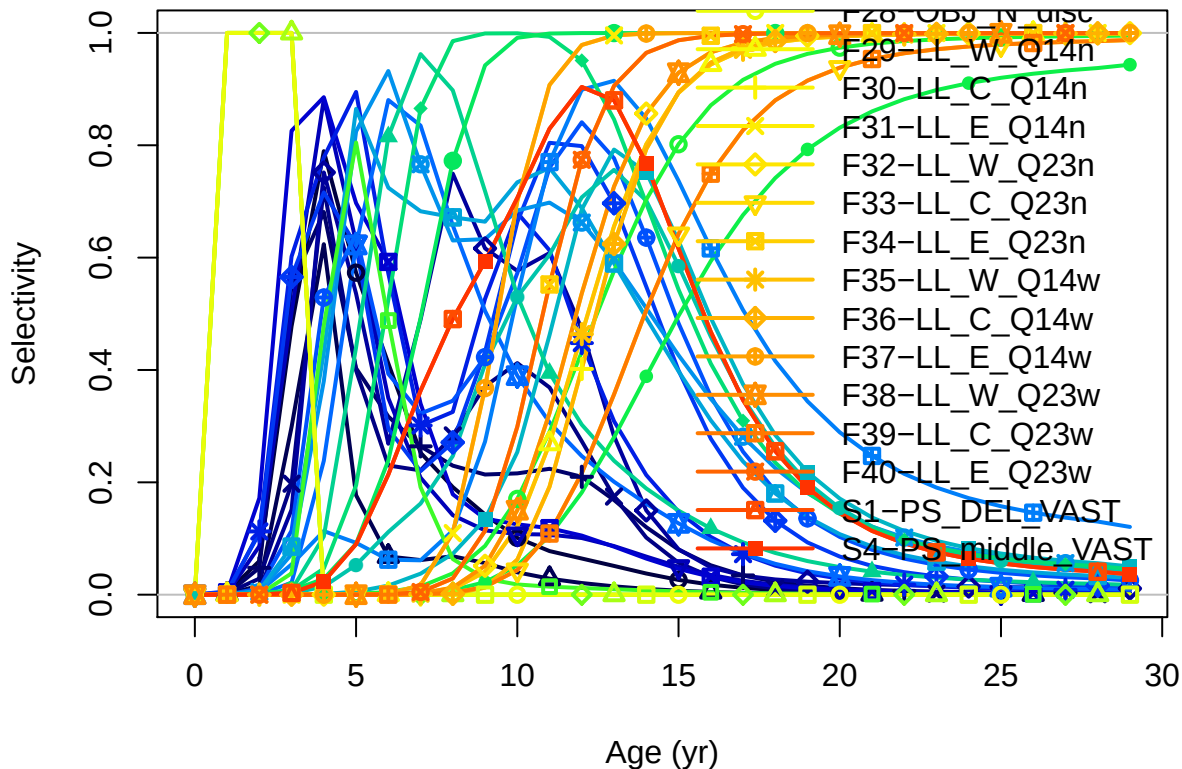
Length-based selectivity by fleet in 180



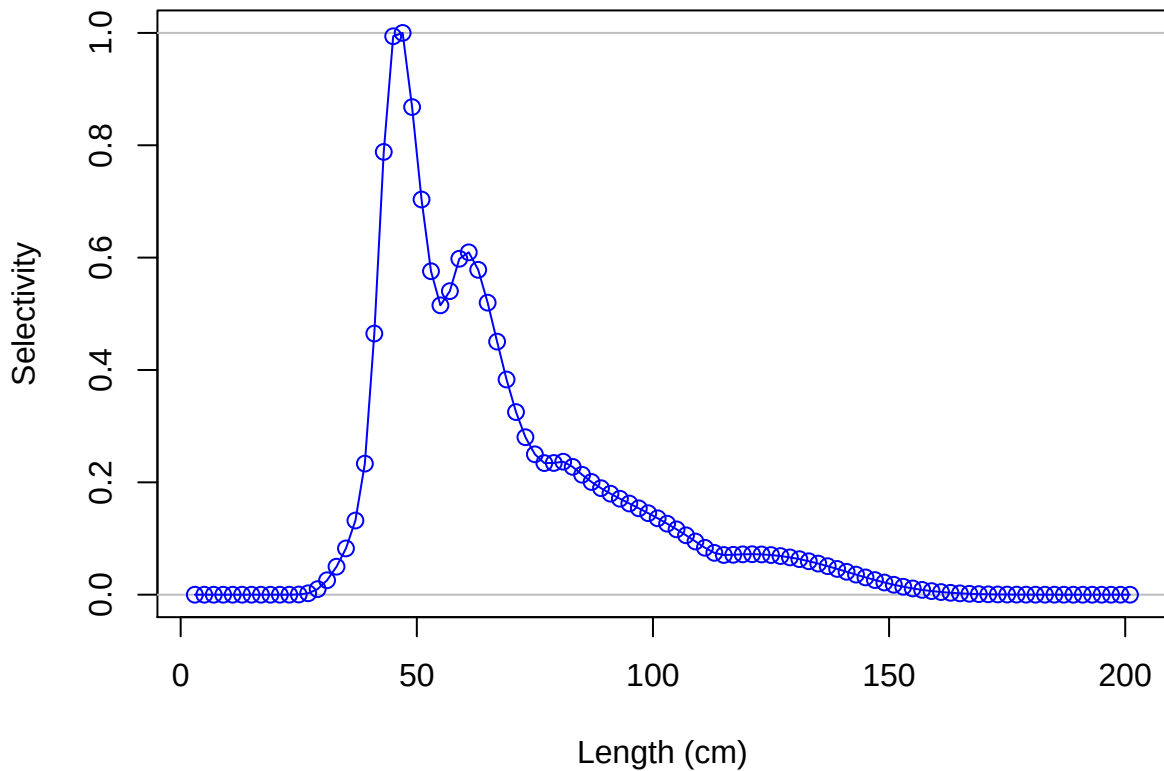
Age-based selectivity by fleet in 180



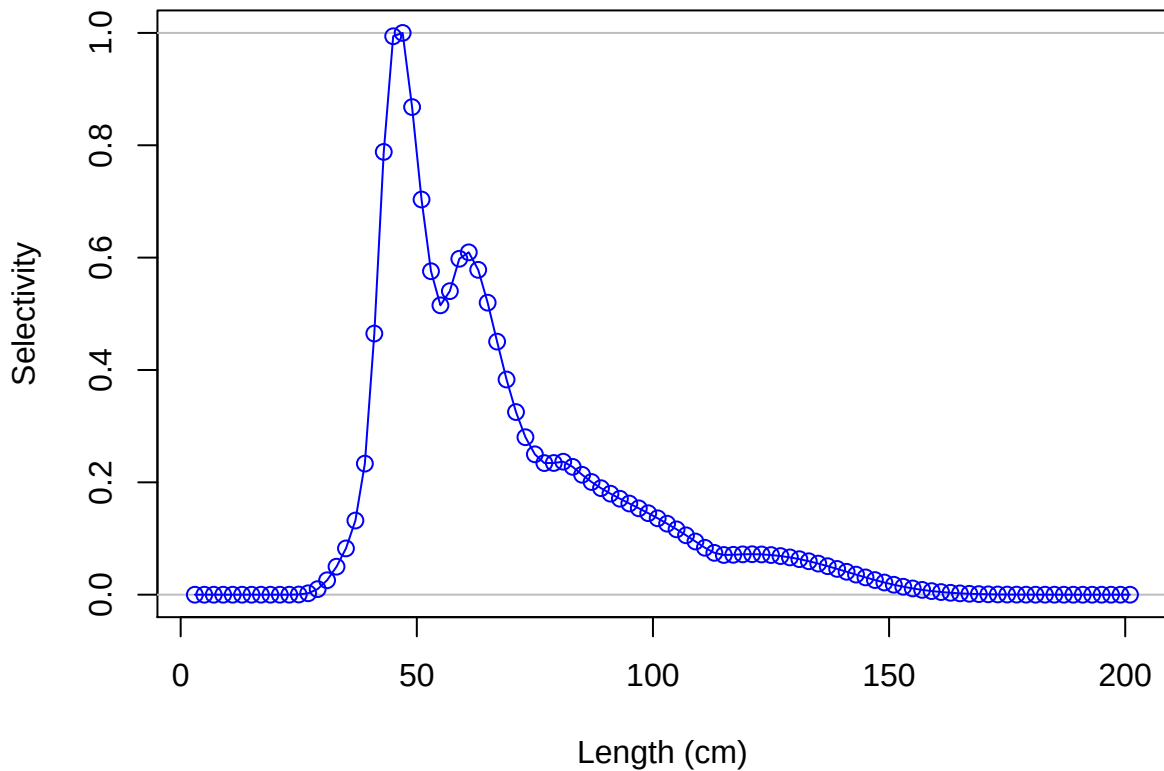
Derived age-based from length-based selectivity by fleet in 180



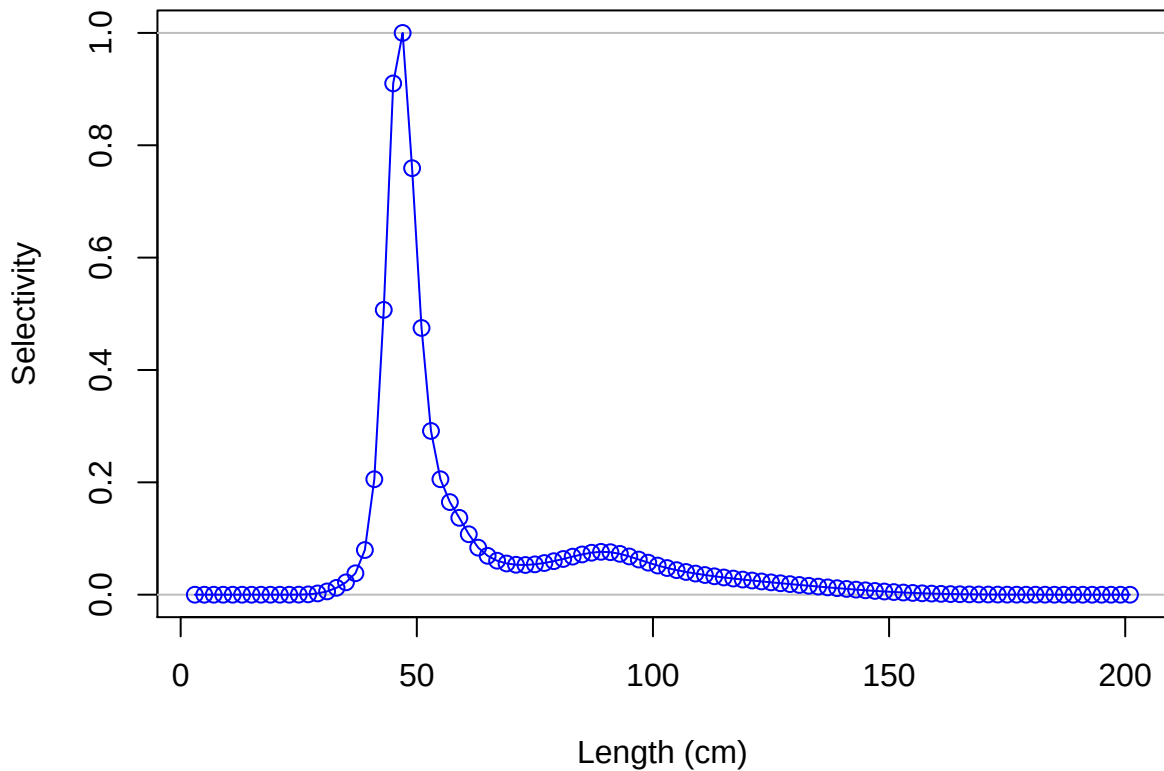
Female ending year selectivity for F1-OBJ_N-Q14



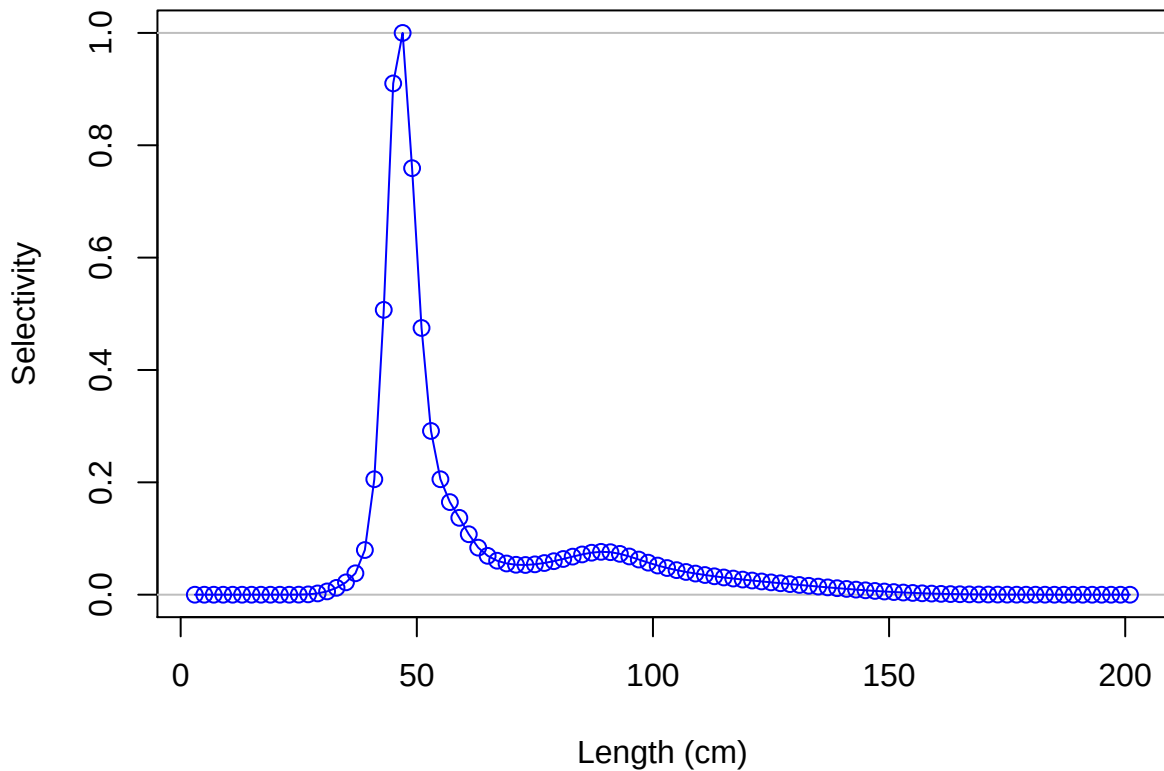
Male ending year selectivity for F1-OBJ_N-Q14



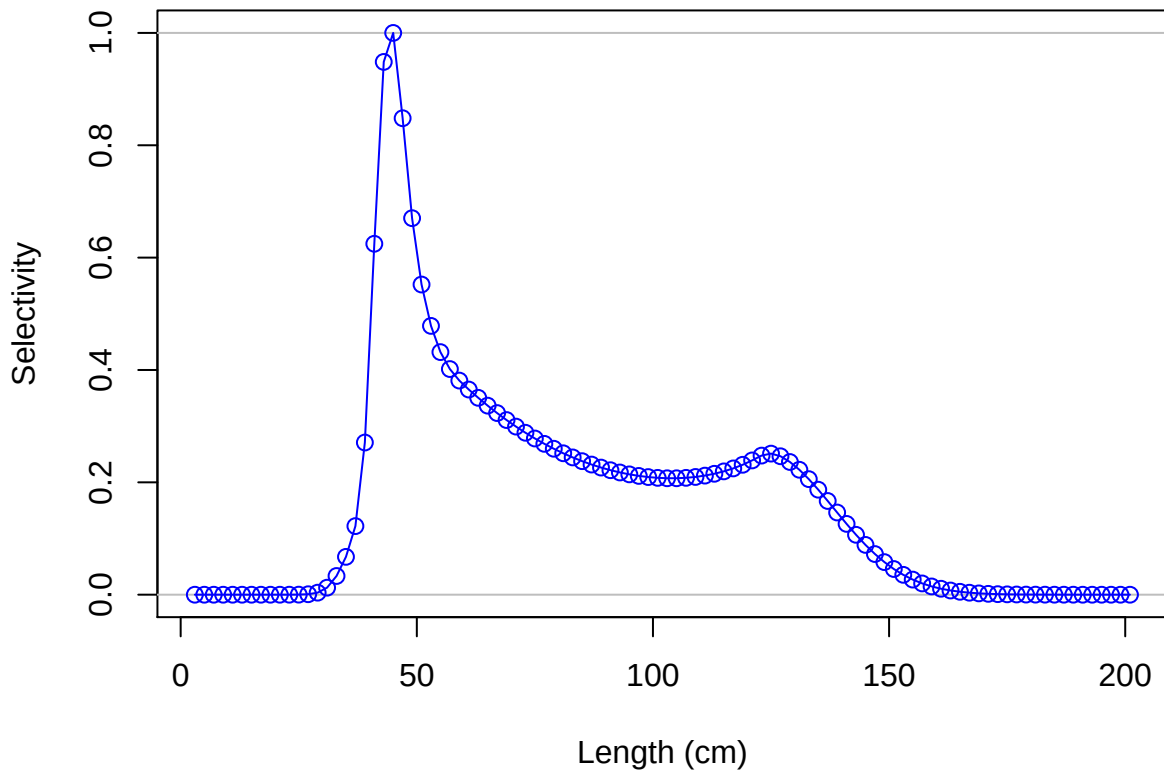
Female ending year selectivity for F2-OBJ_Nc_Q14



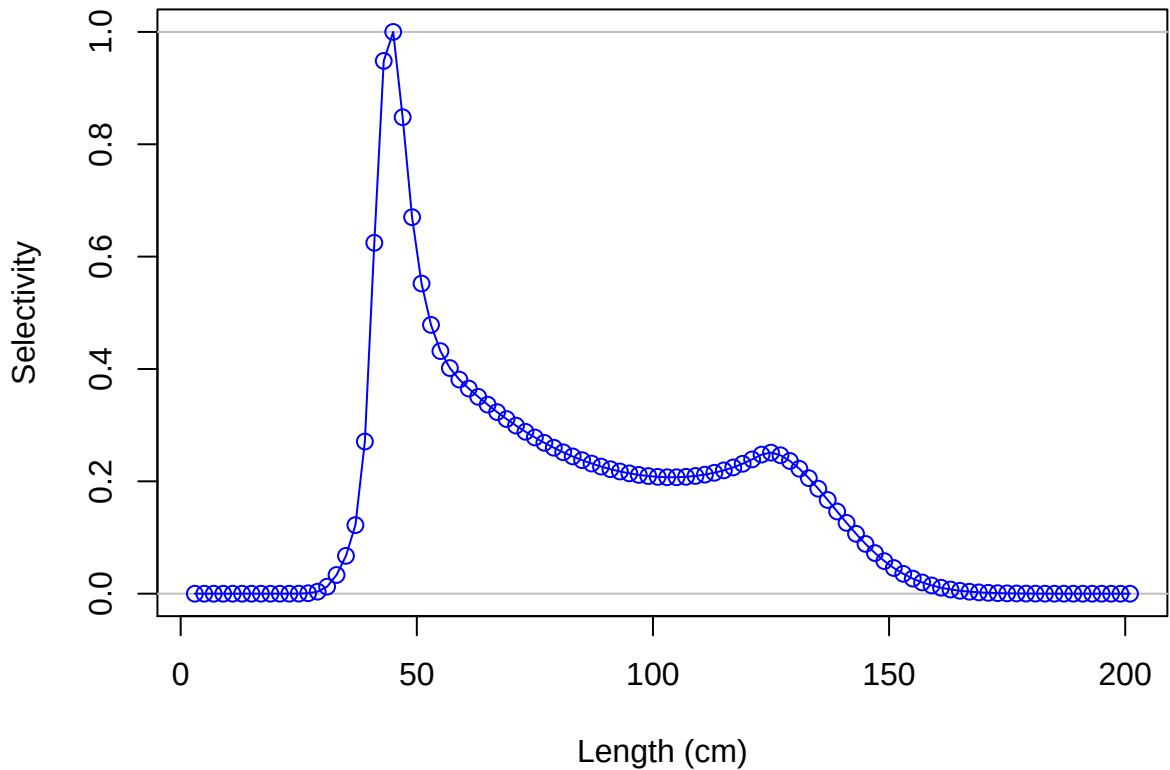
Male ending year selectivity for F2-OBJ_Nc_Q14



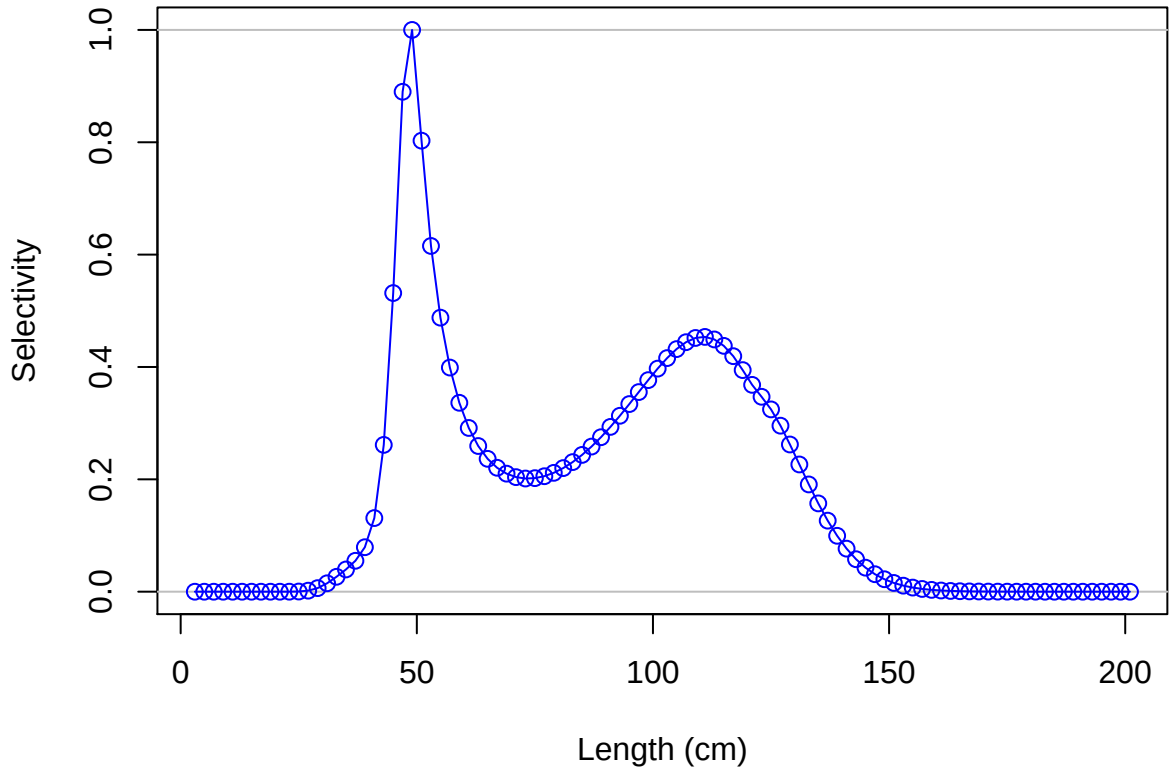
Female ending year selectivity for F3-OBJ_C_Q14



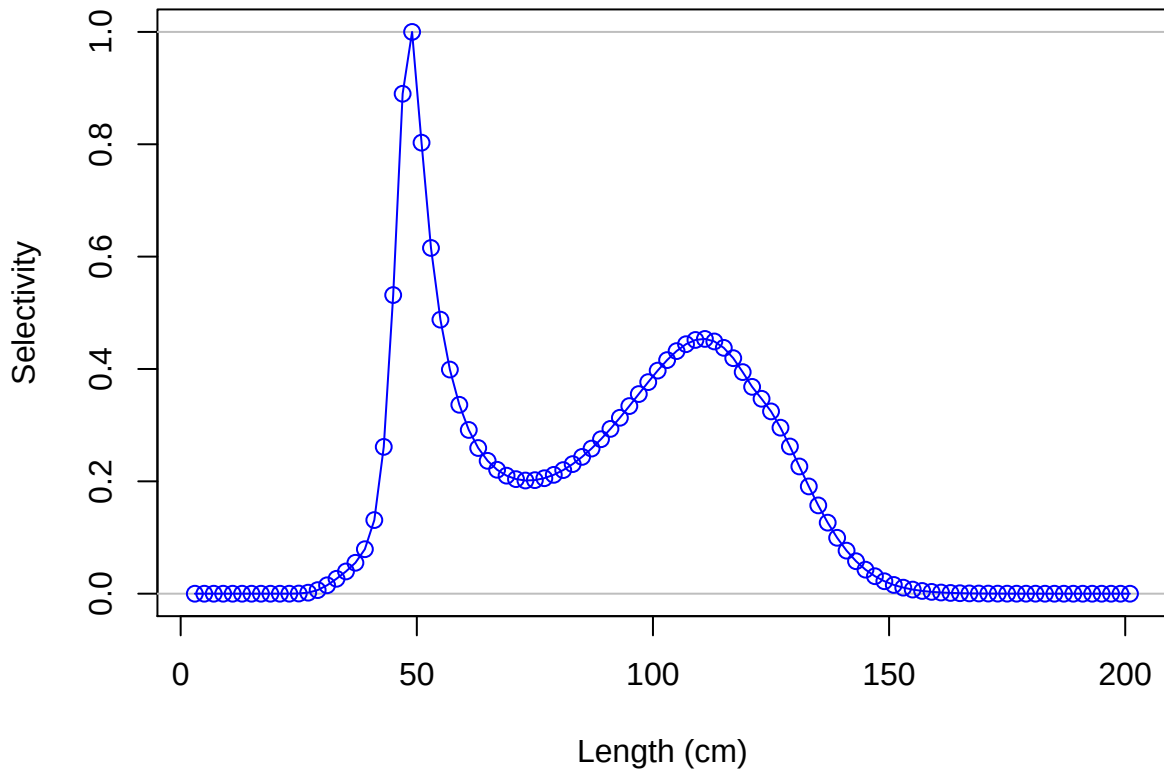
Male ending year selectivity for F3-OBJ_C_Q14



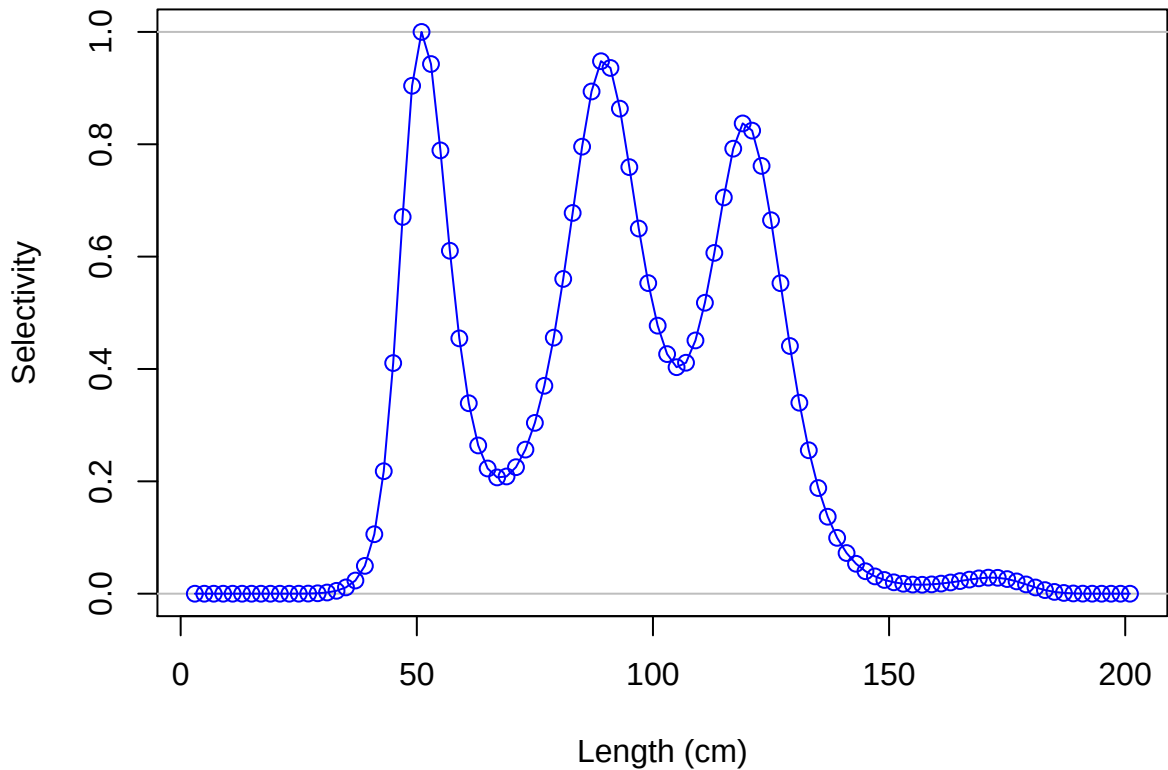
Female ending year selectivity for F4-OBJ_Cc_Q14



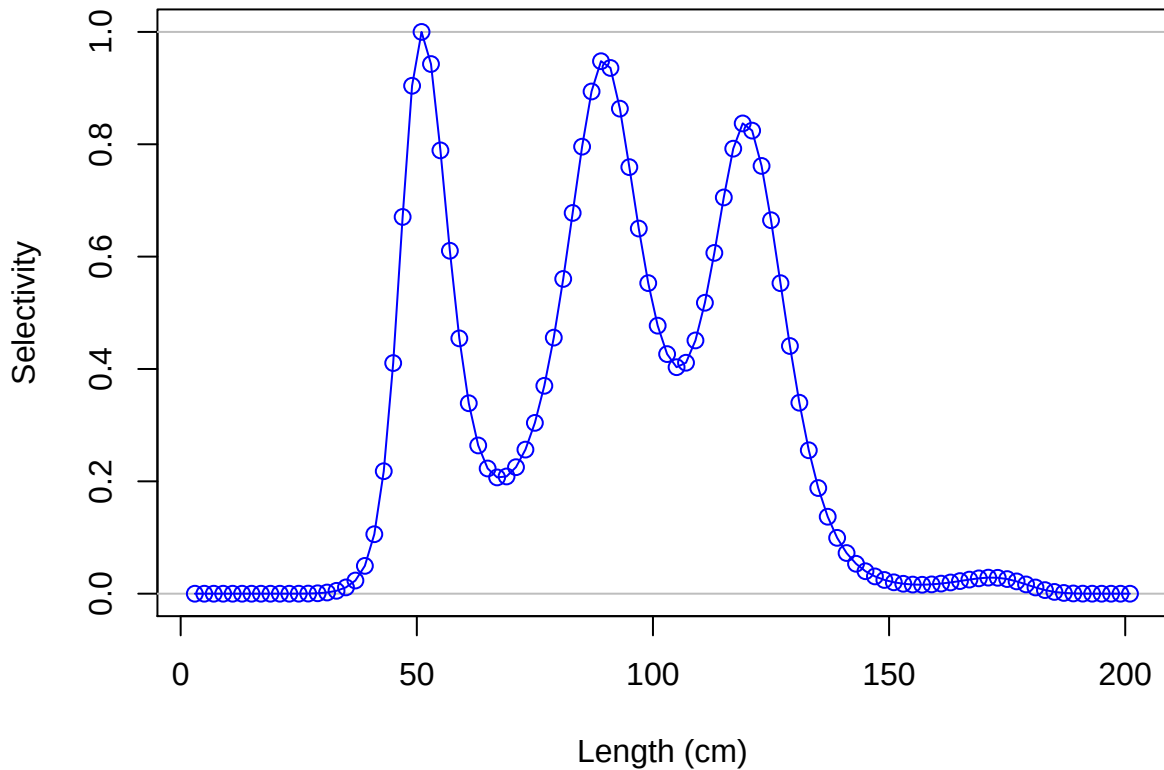
Male ending year selectivity for F4-OBJ_Cc_Q14



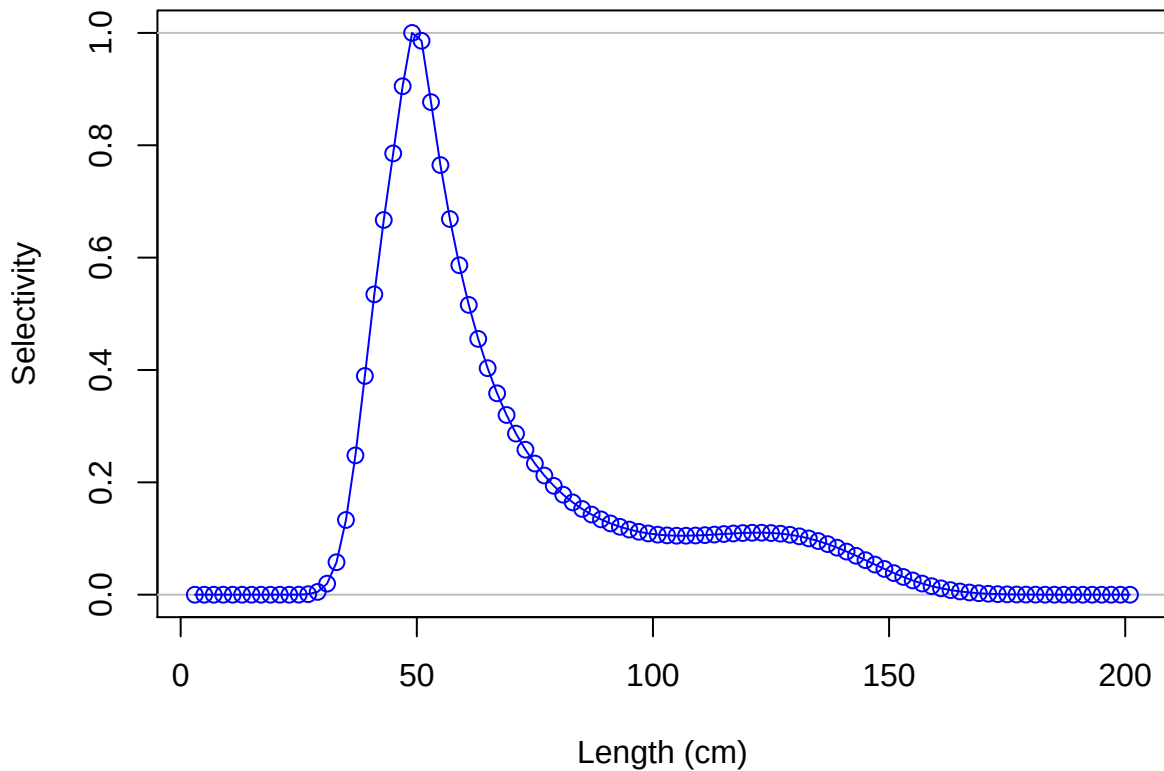
Female ending year selectivity for F5-OBJ_S_Q14



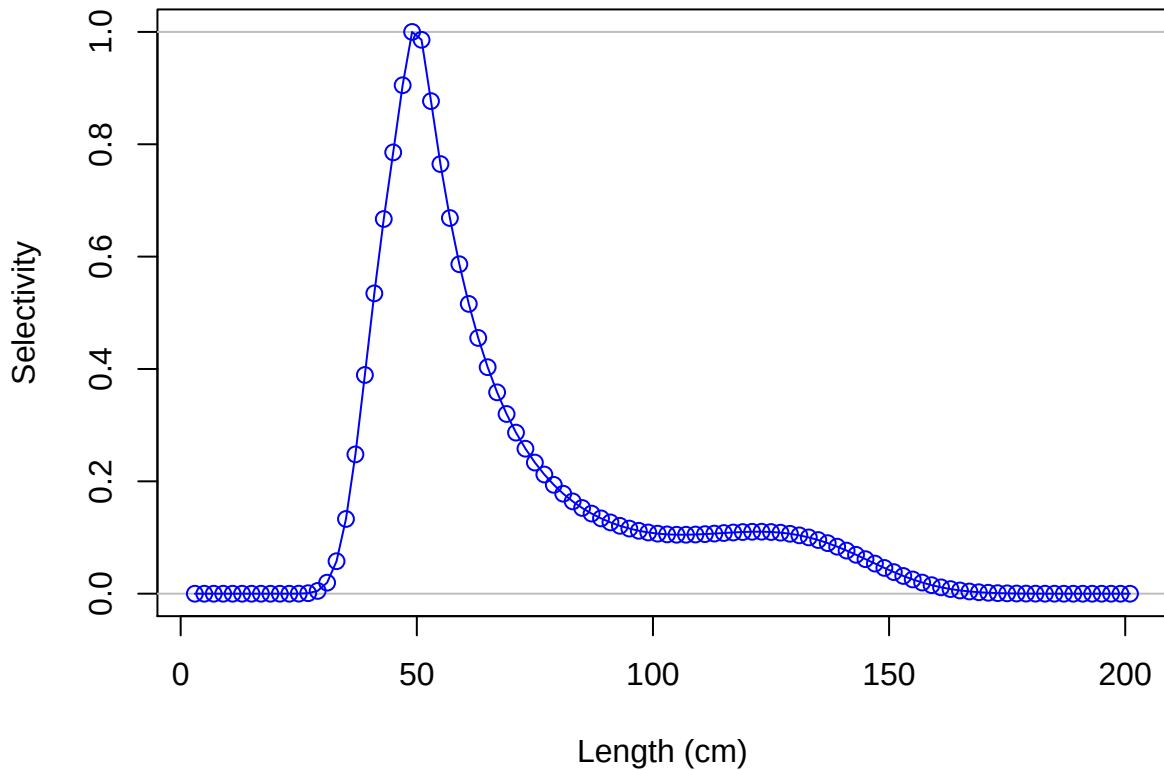
Male ending year selectivity for F5-OBJ_S_Q14



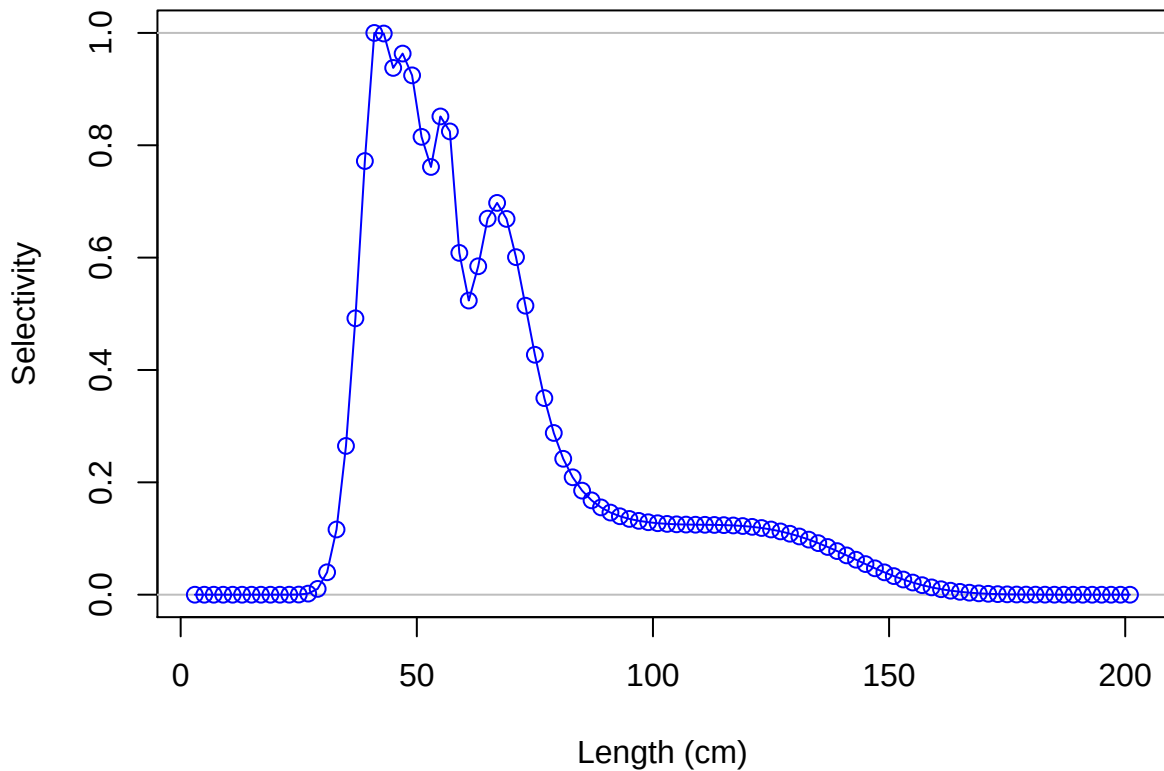
Female ending year selectivity for F6-OBJ_N_Q23



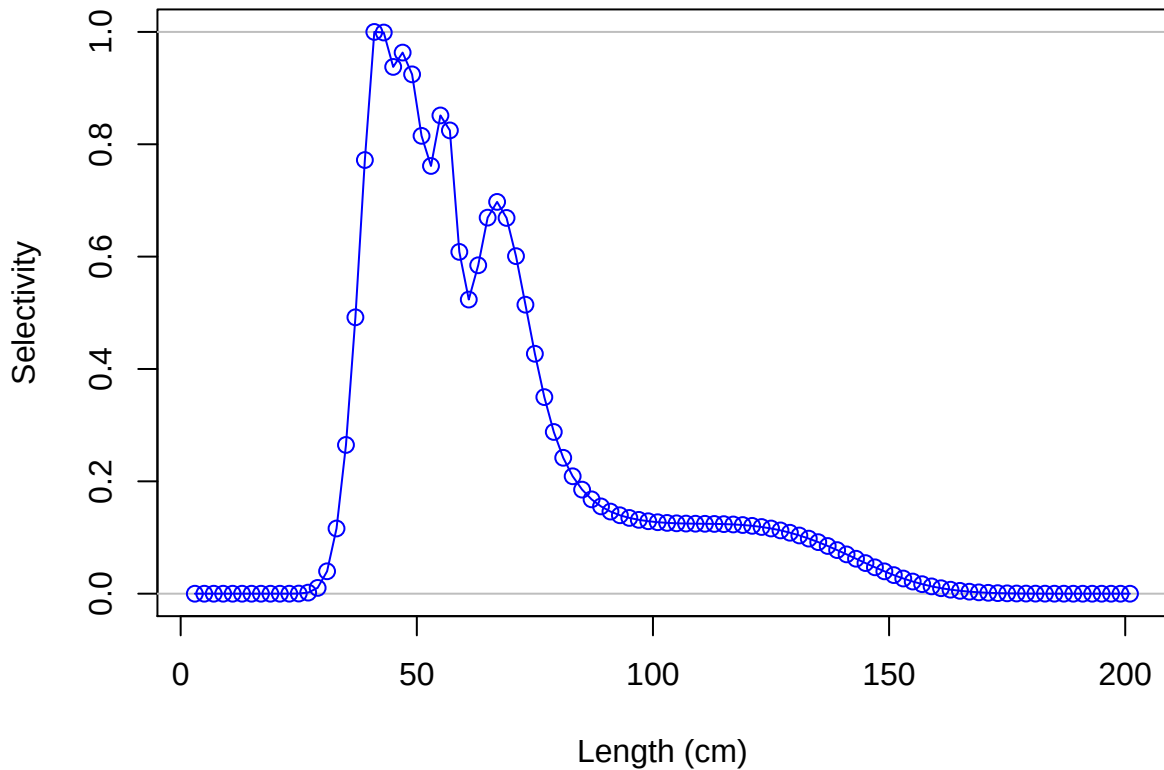
Male ending year selectivity for F6-OBJ_N_Q23



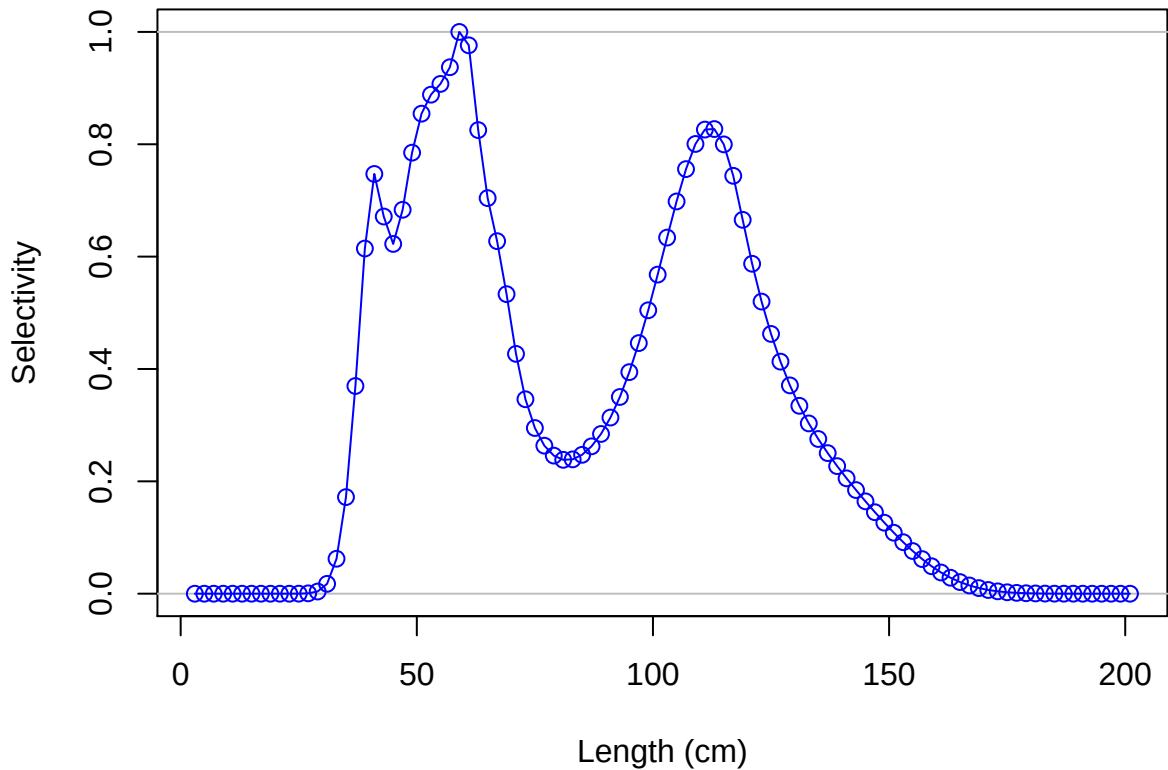
Female ending year selectivity for F7-OBJ_Nc_Q23



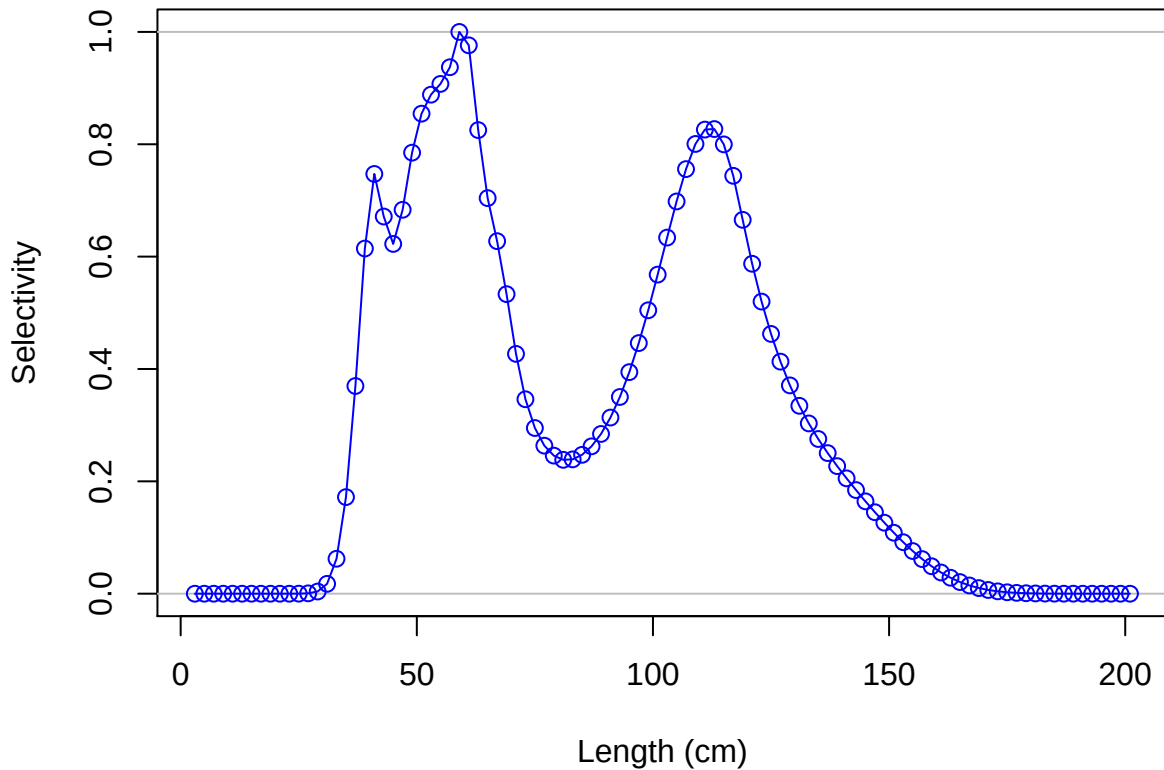
Male ending year selectivity for F7-OBJ_Nc_Q23



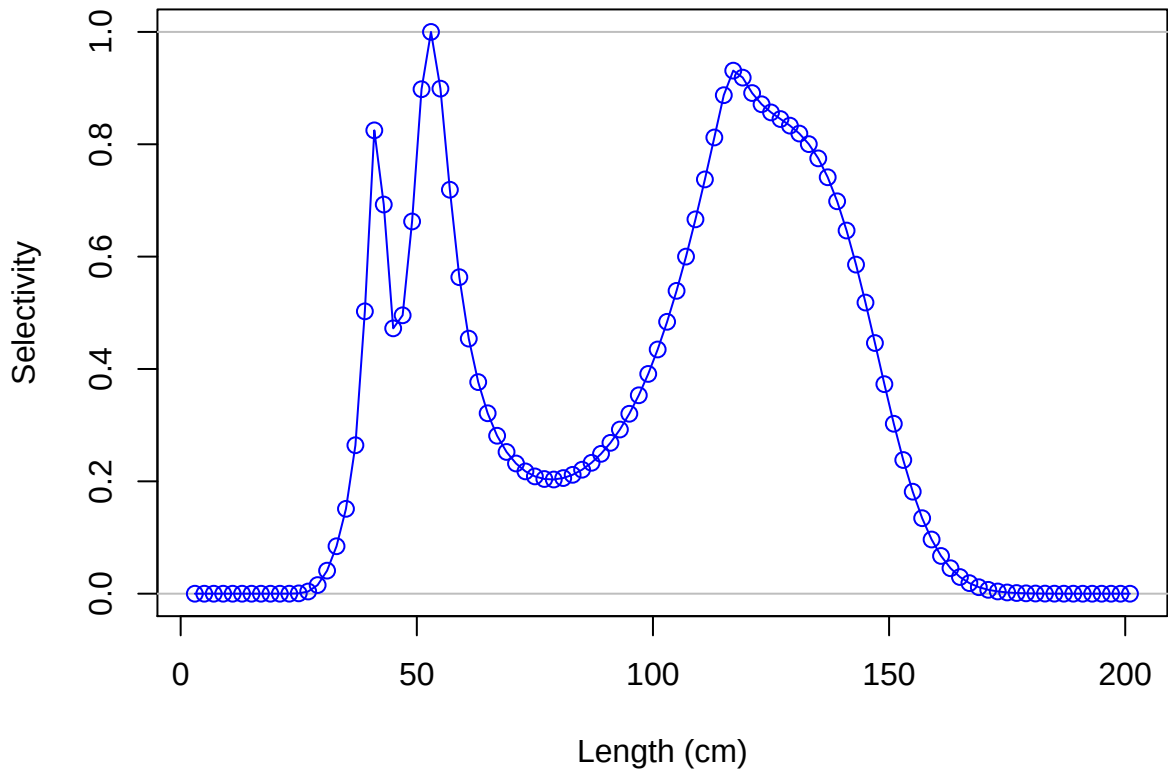
Female ending year selectivity for F8-OBJ_C_Q23



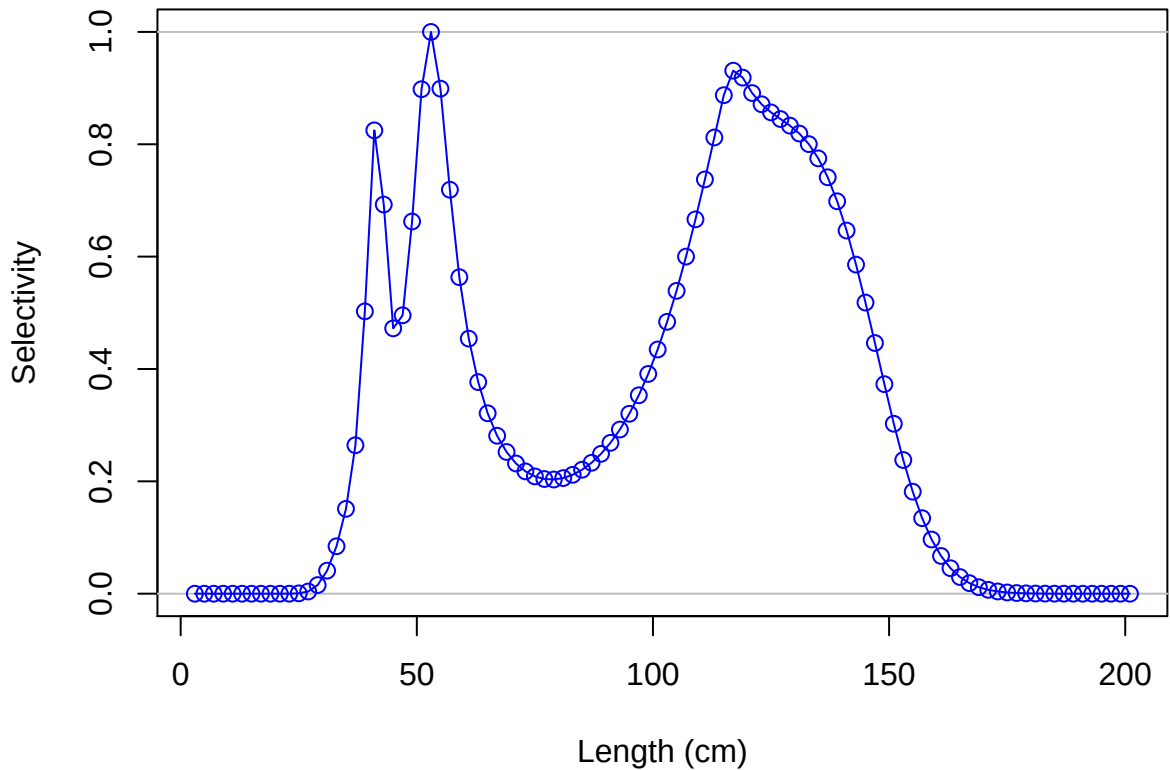
Male ending year selectivity for F8-OBJ_C_Q23



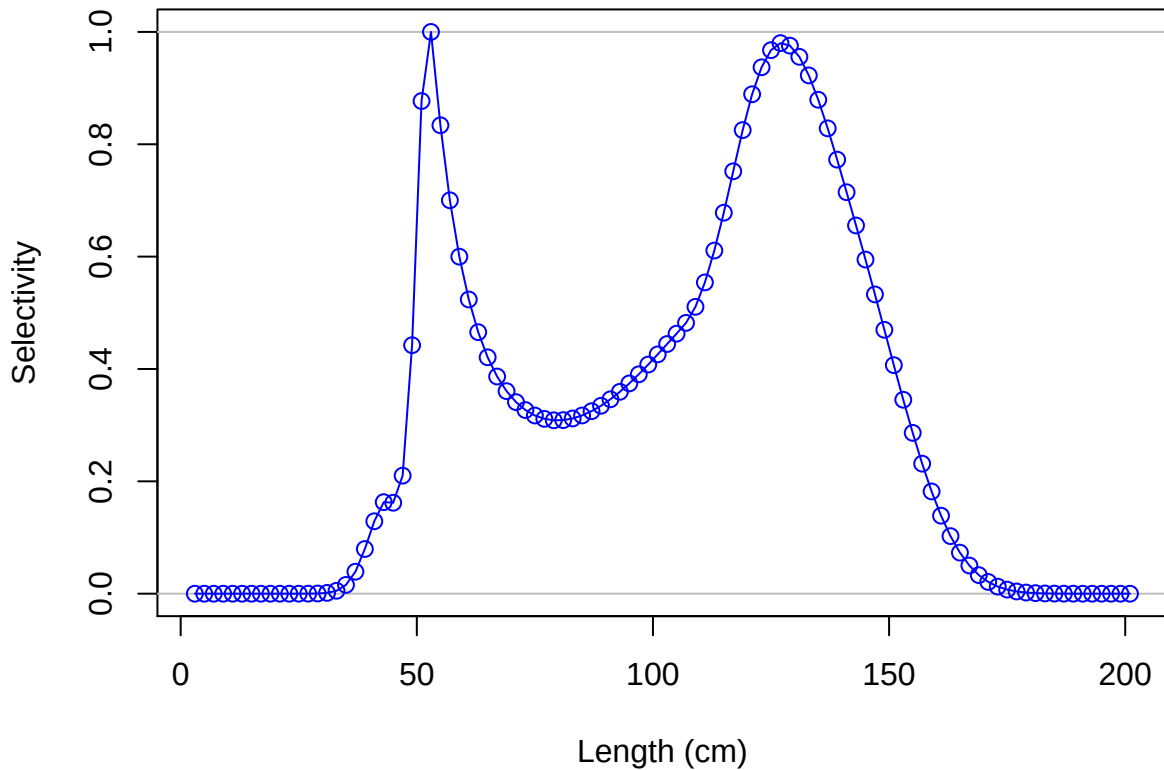
Female ending year selectivity for F9-OBJ_Cc_Q23



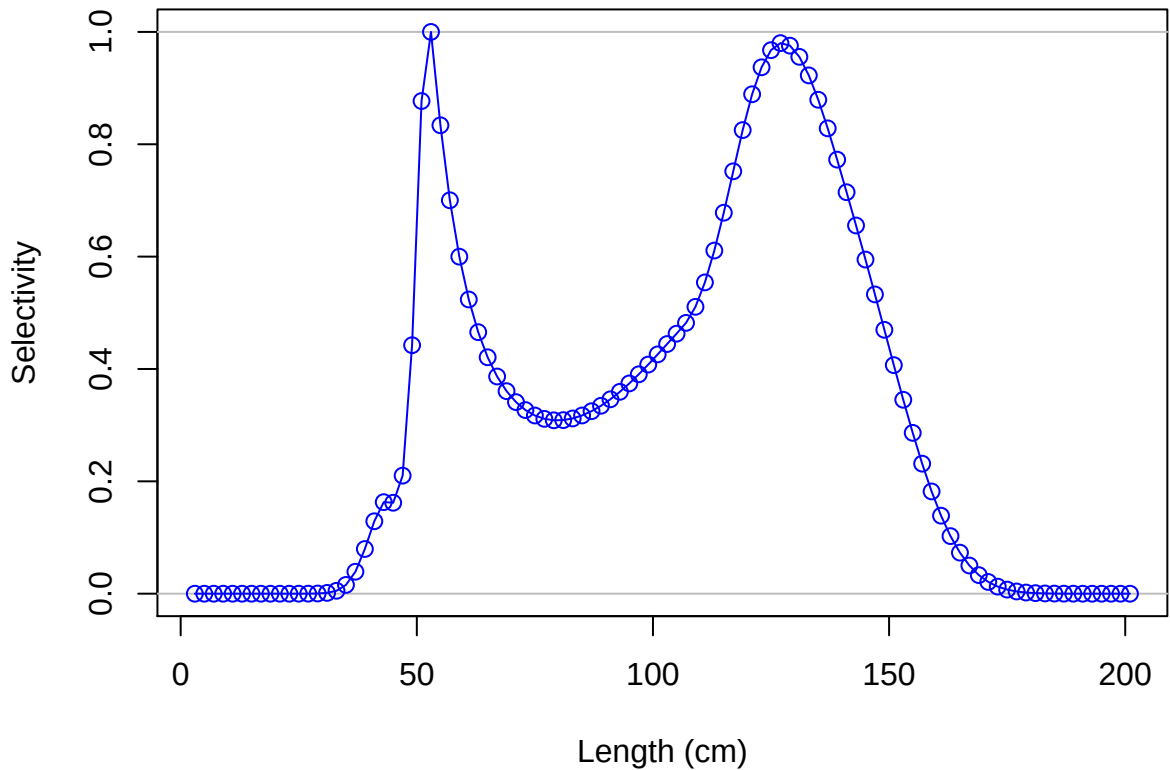
Male ending year selectivity for F9-OBJ_Cc_Q23



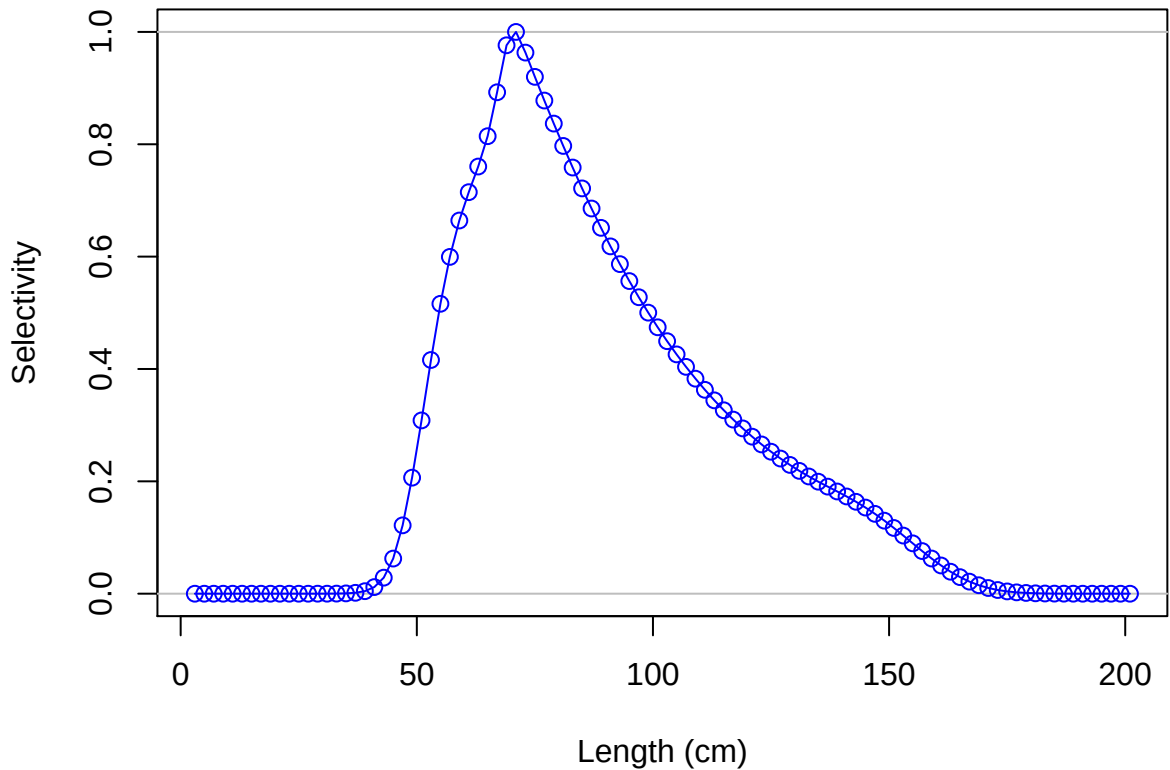
Female ending year selectivity for F10-OBJ_S_Q23



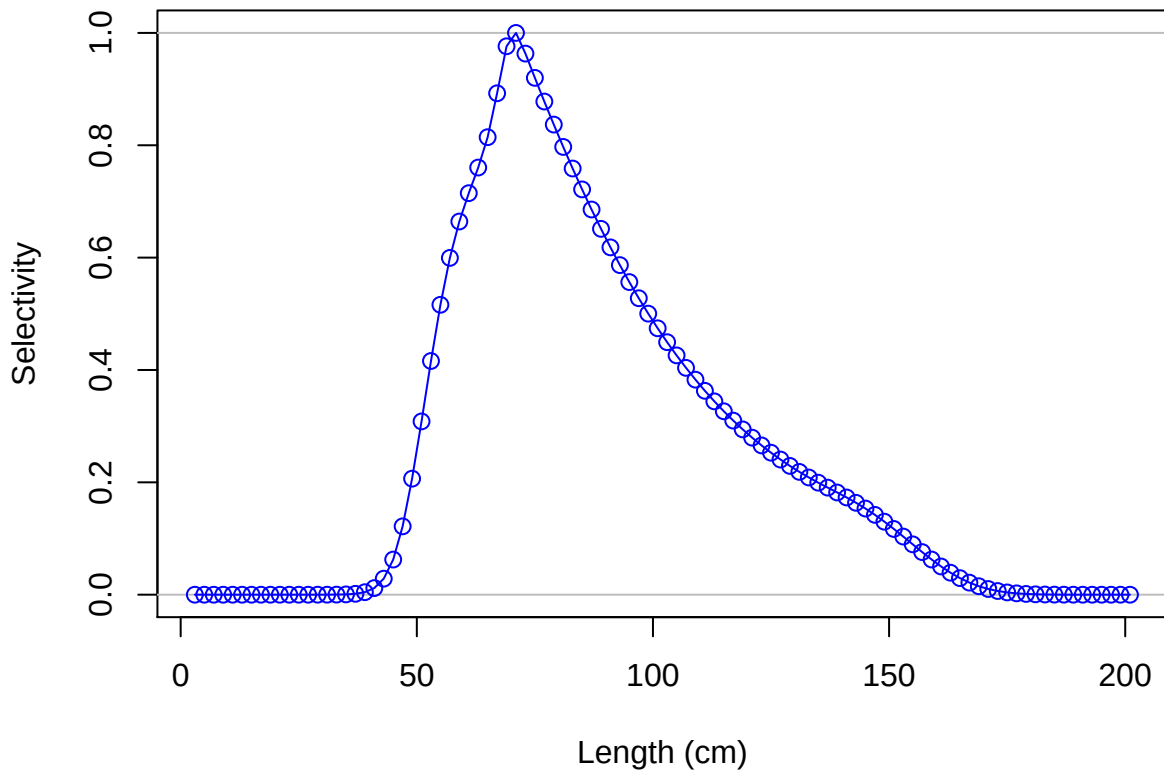
Male ending year selectivity for F10-OBJ_S_Q23



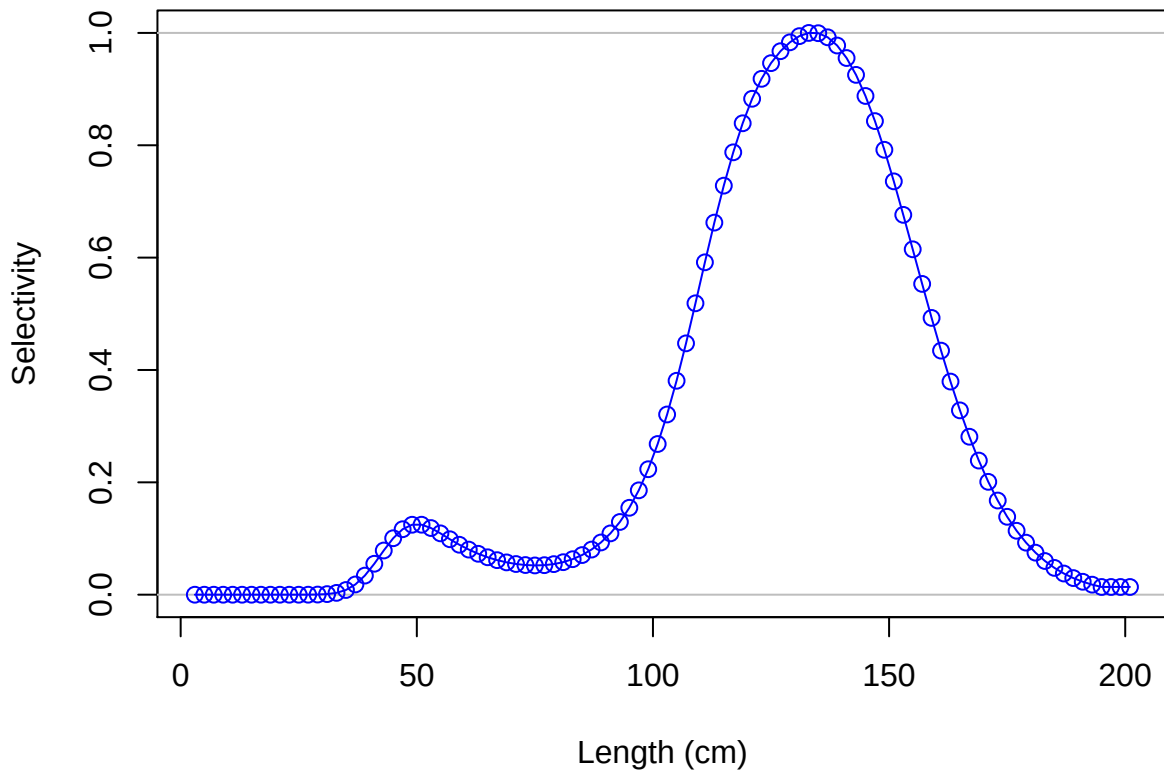
Female ending year selectivity for F11-NOA_N



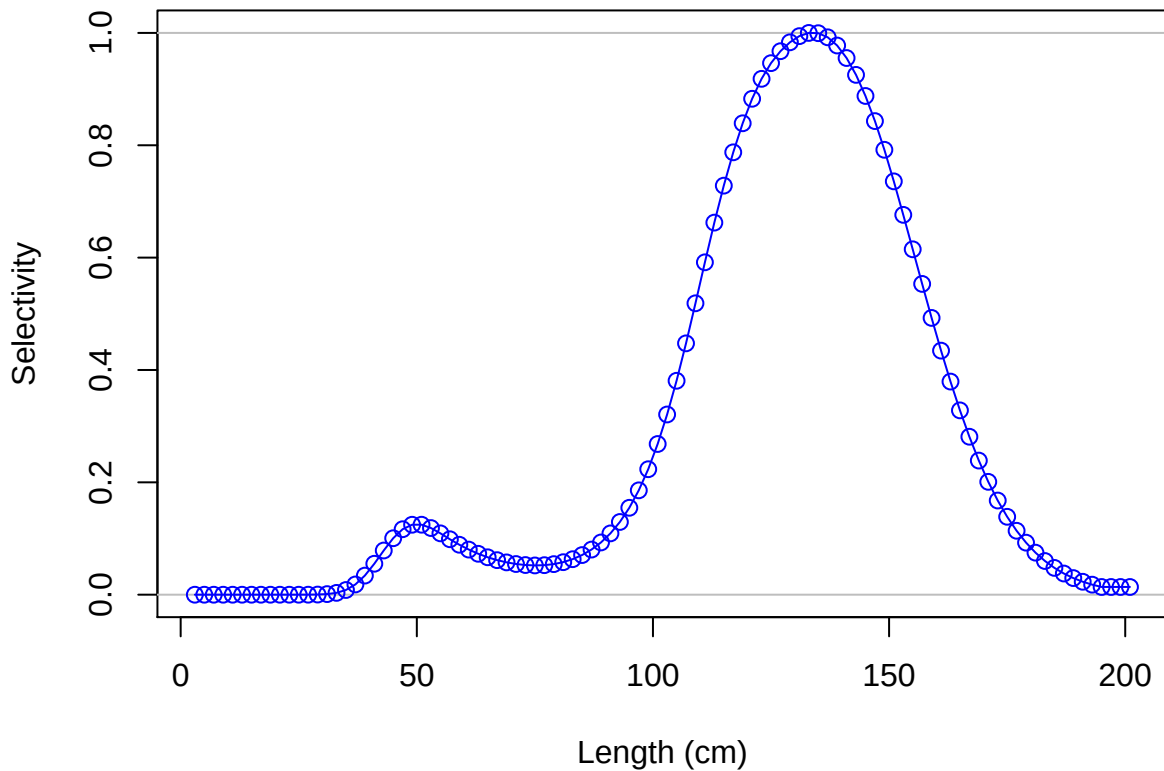
Male ending year selectivity for F11-NOA_N



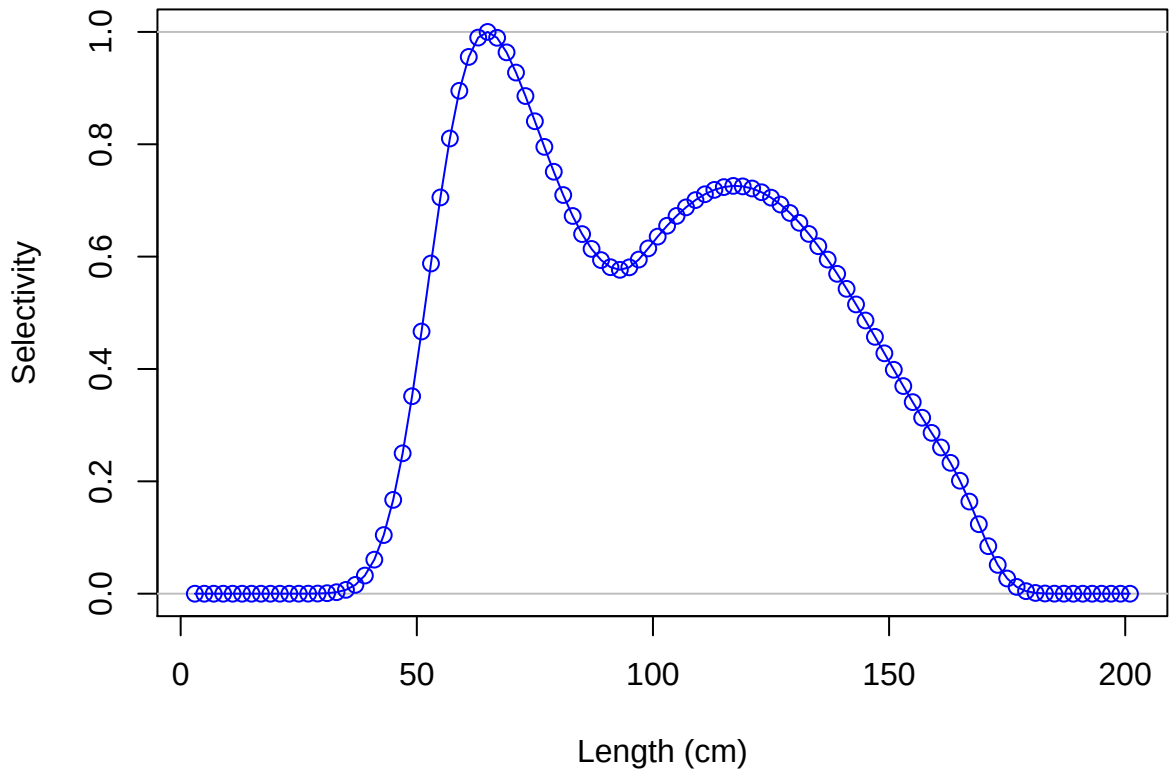
Female ending year selectivity for F12-NOA_C



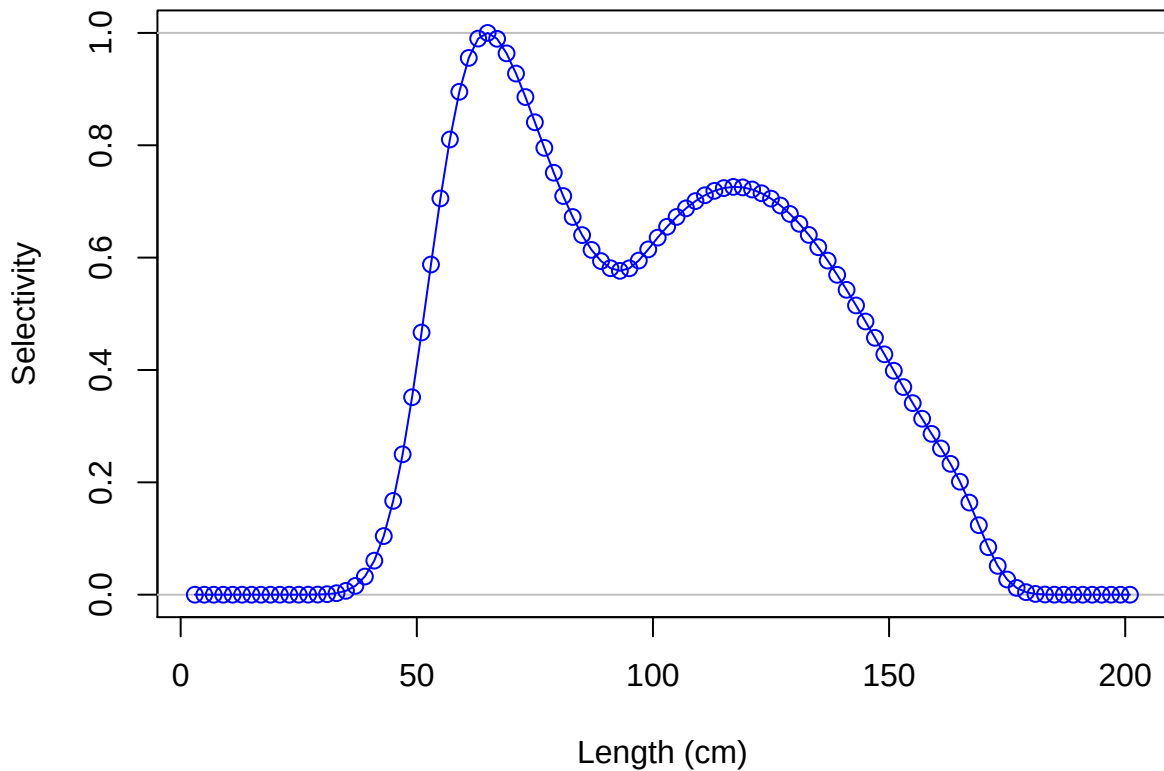
Male ending year selectivity for F12-NOA_C



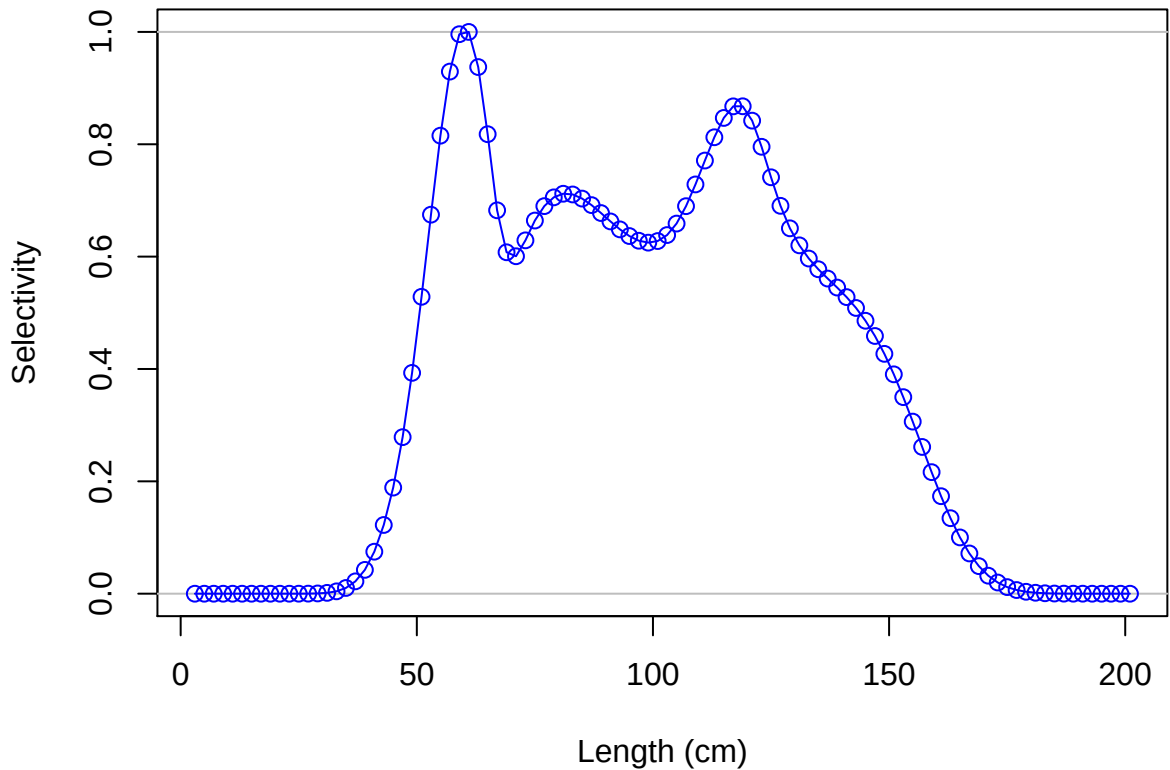
Female ending year selectivity for F13-NOA_I



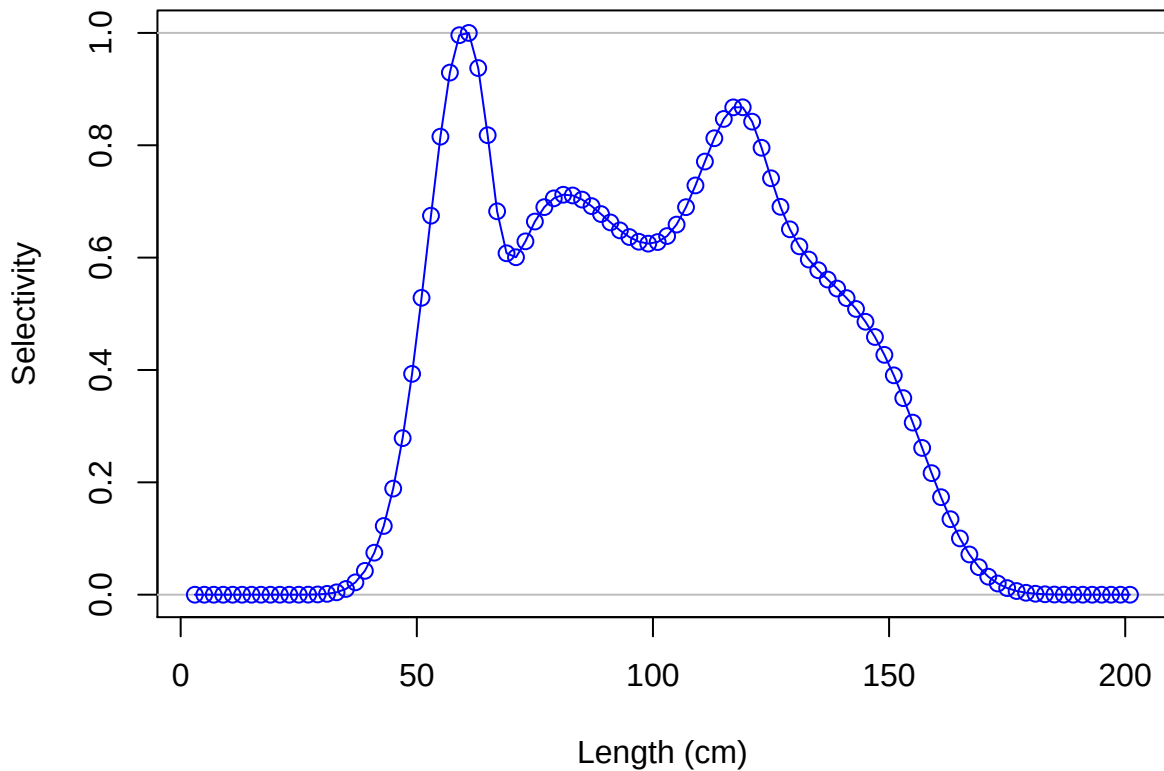
Male ending year selectivity for F13-NOA_I



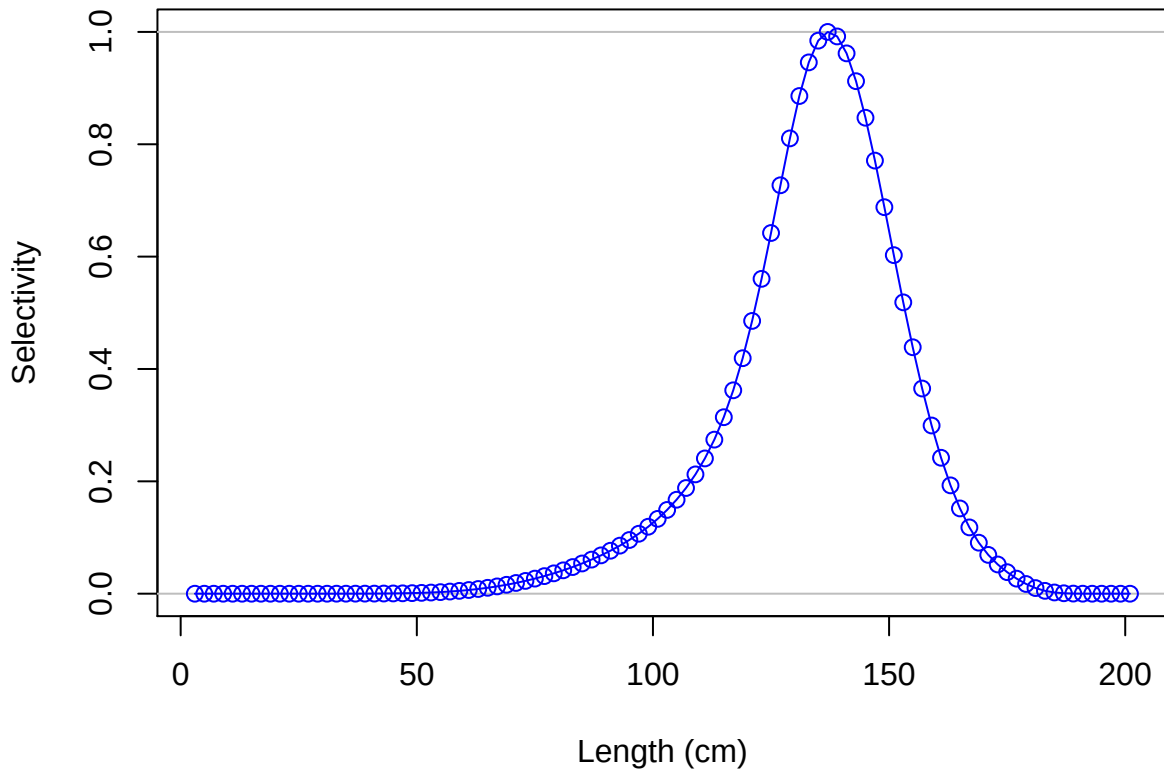
Female ending year selectivity for F14-NOA_S



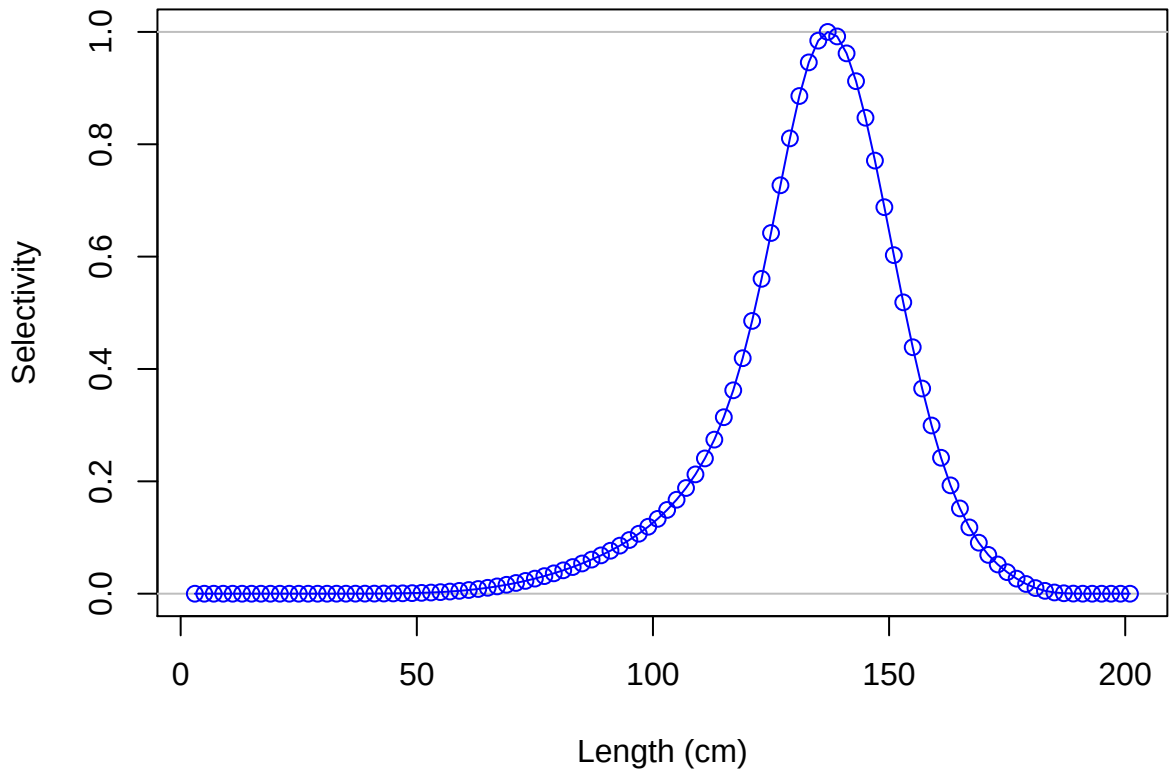
Male ending year selectivity for F14-NOA_S



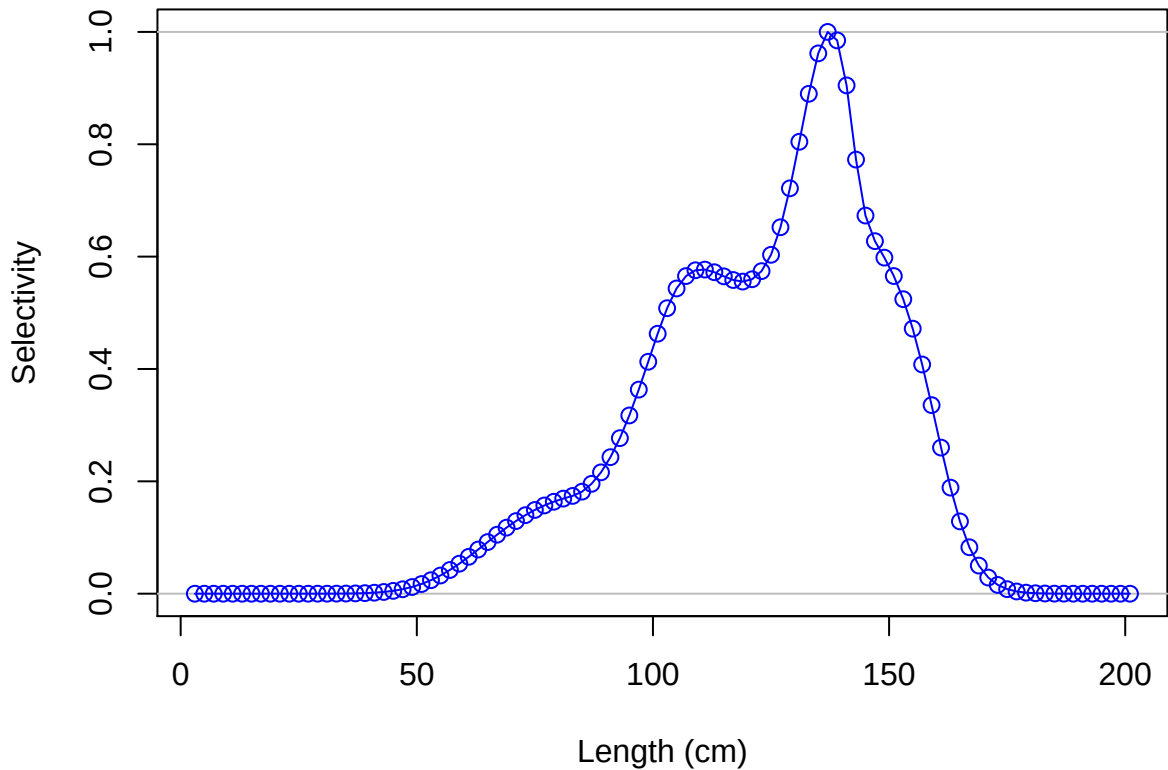
Female ending year selectivity for F15-DEL_N



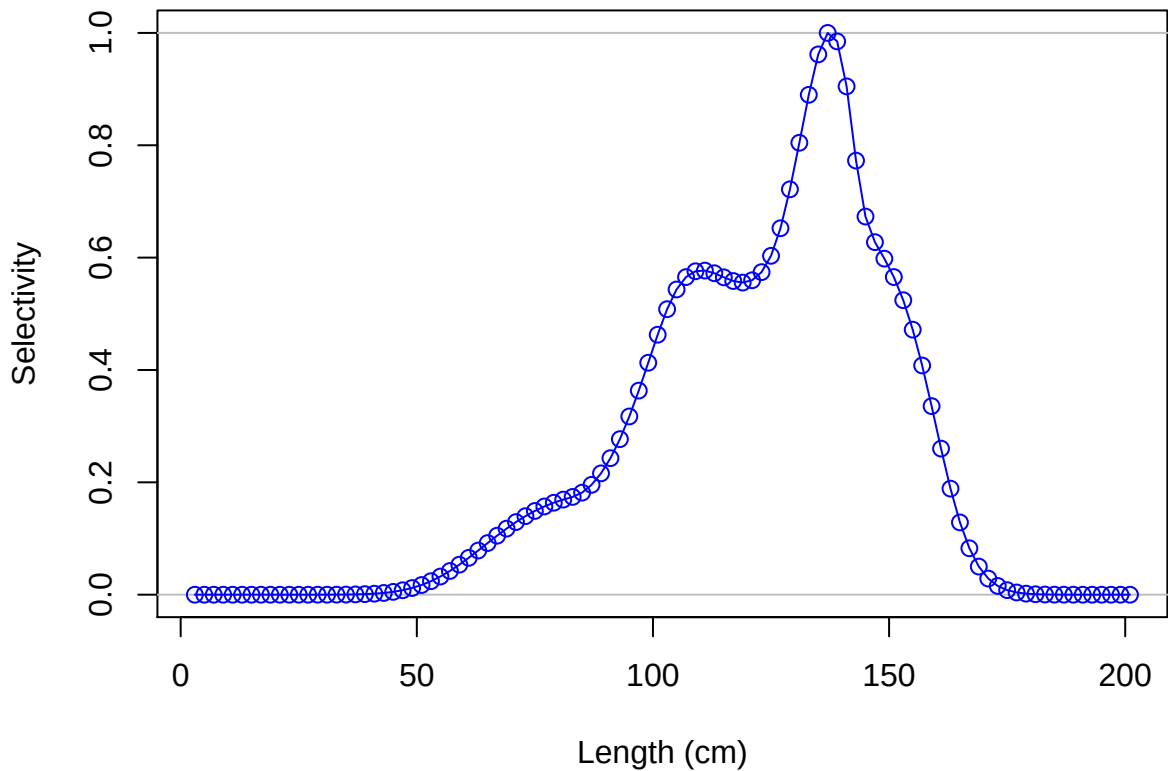
Male ending year selectivity for F15-DEL_N



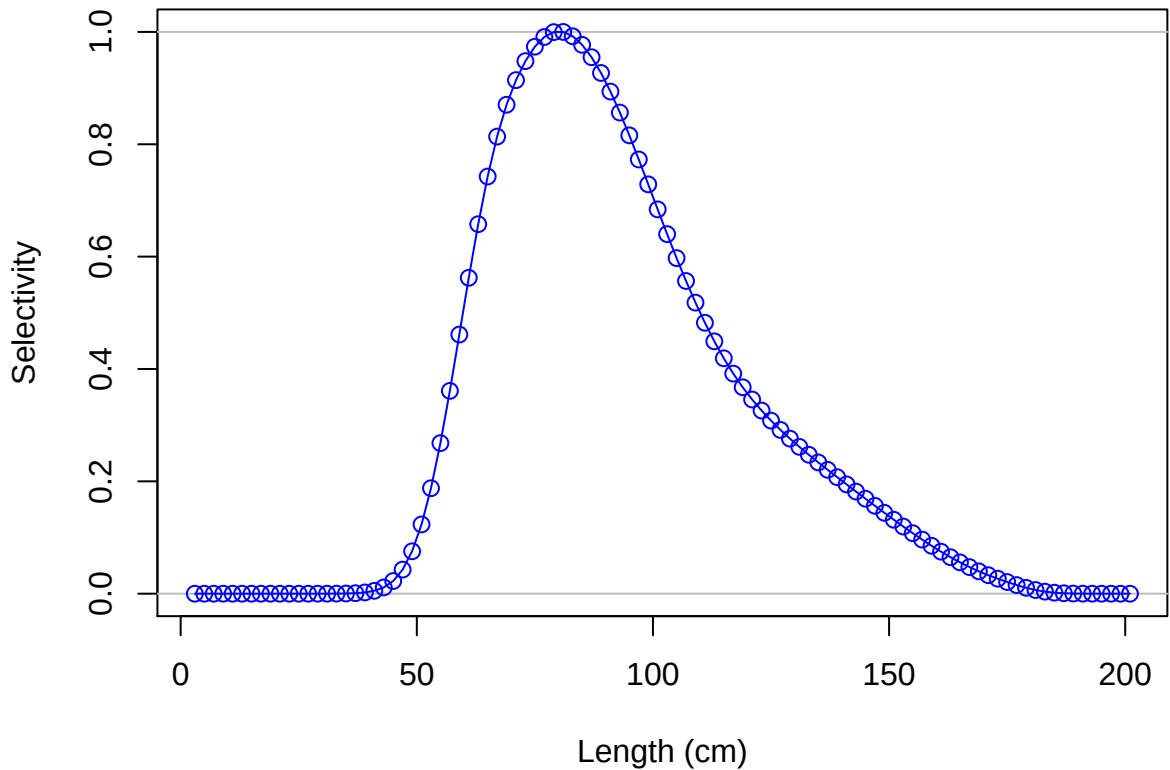
Female ending year selectivity for F16-DEL_NE



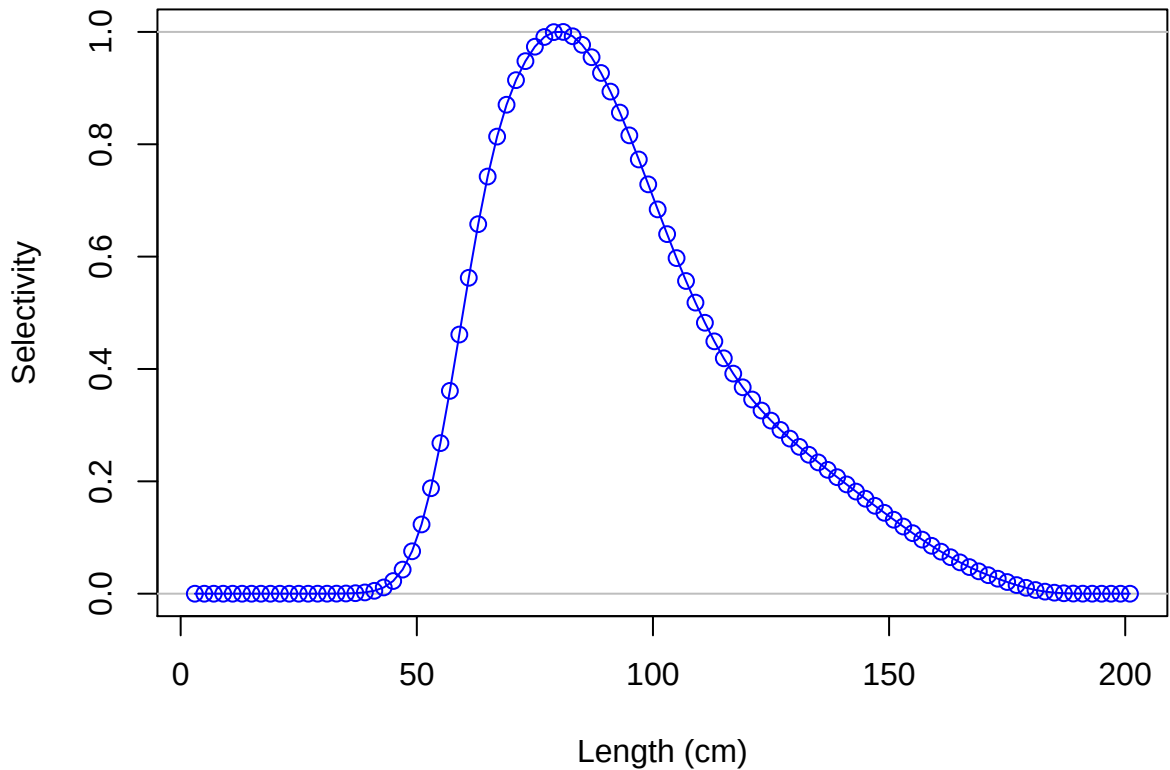
Male ending year selectivity for F16-DEL_NE



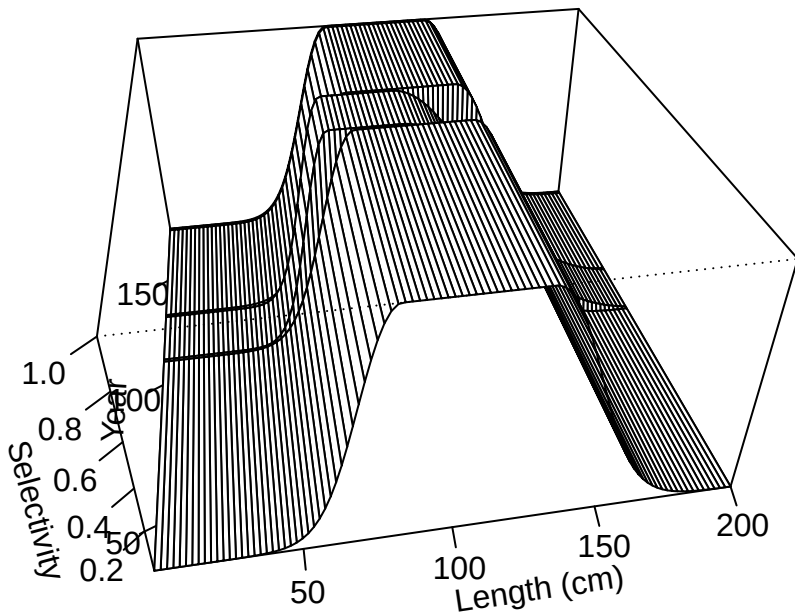
Female ending year selectivity for F17-DEL_M



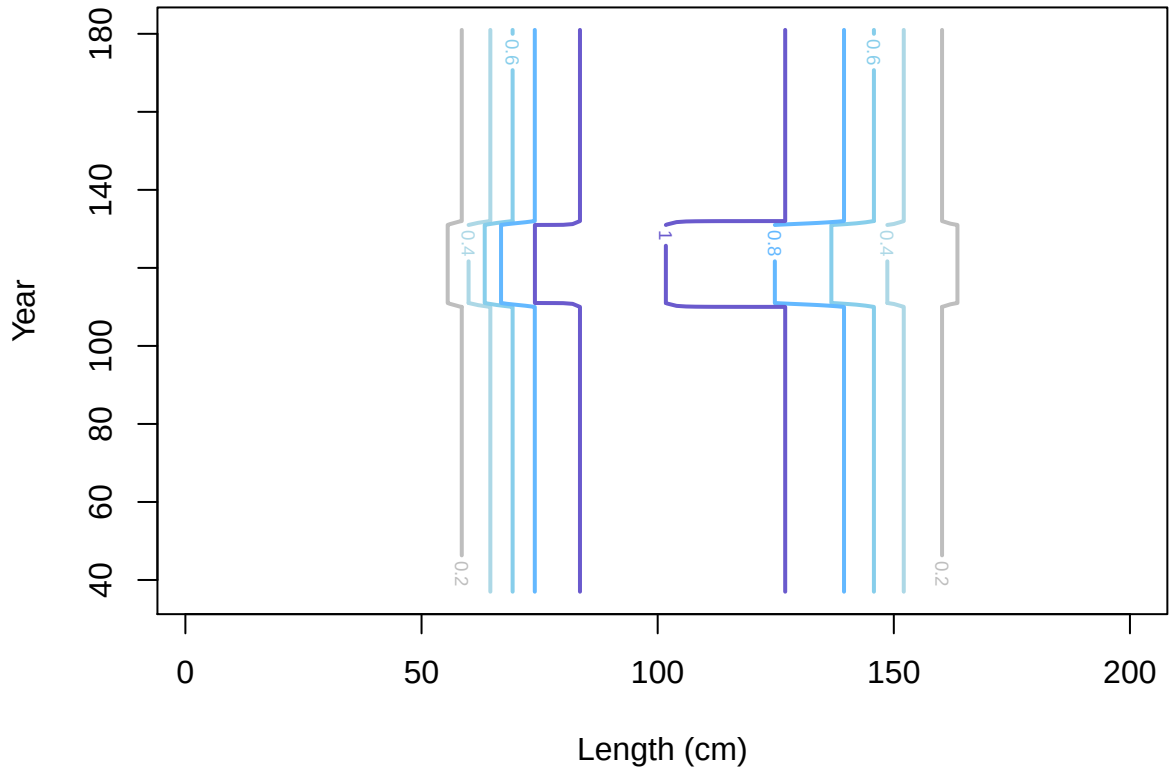
Male ending year selectivity for F17-DEL_M



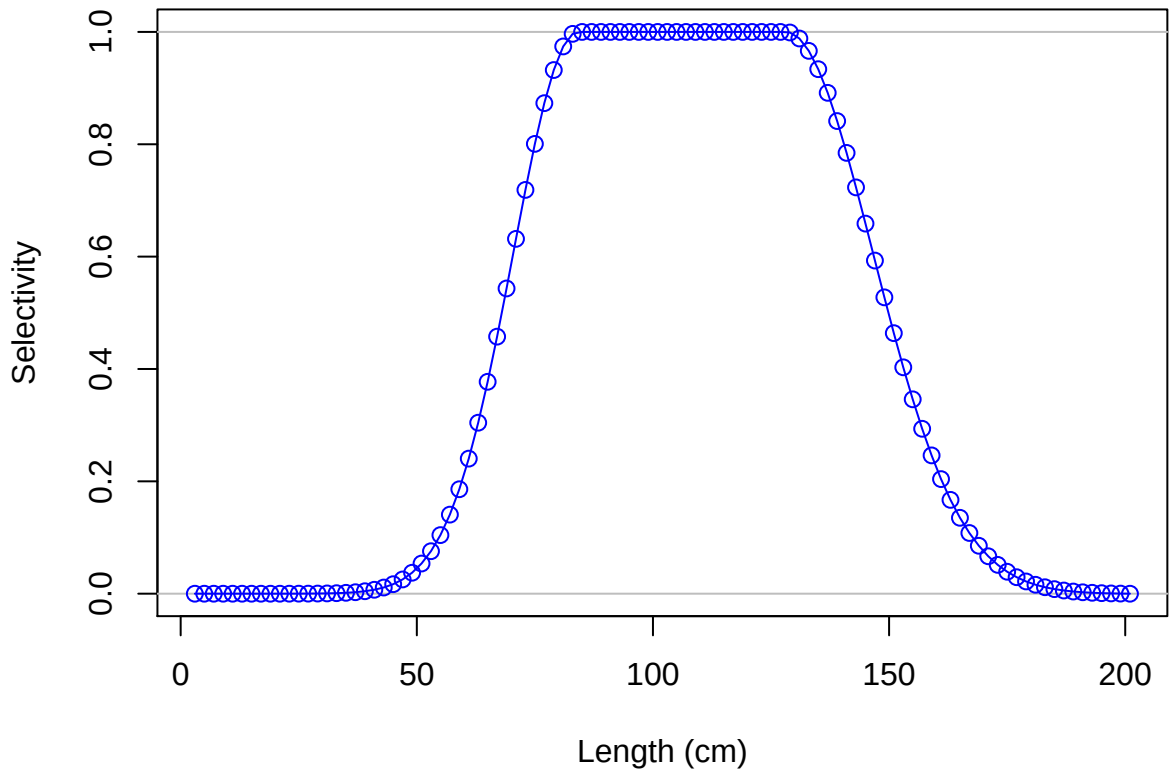
Female time-varying selectivity for F18-DEL_C



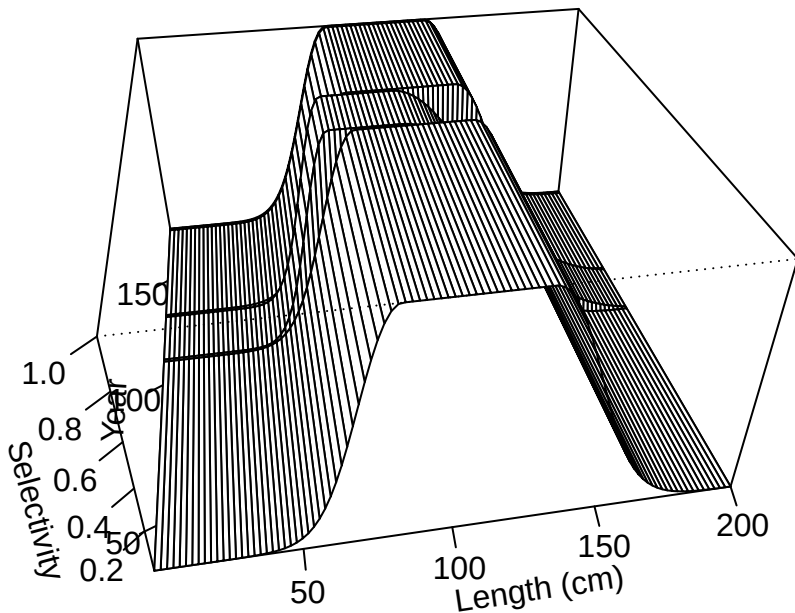
Female time-varying selectivity for F18-DEL_C



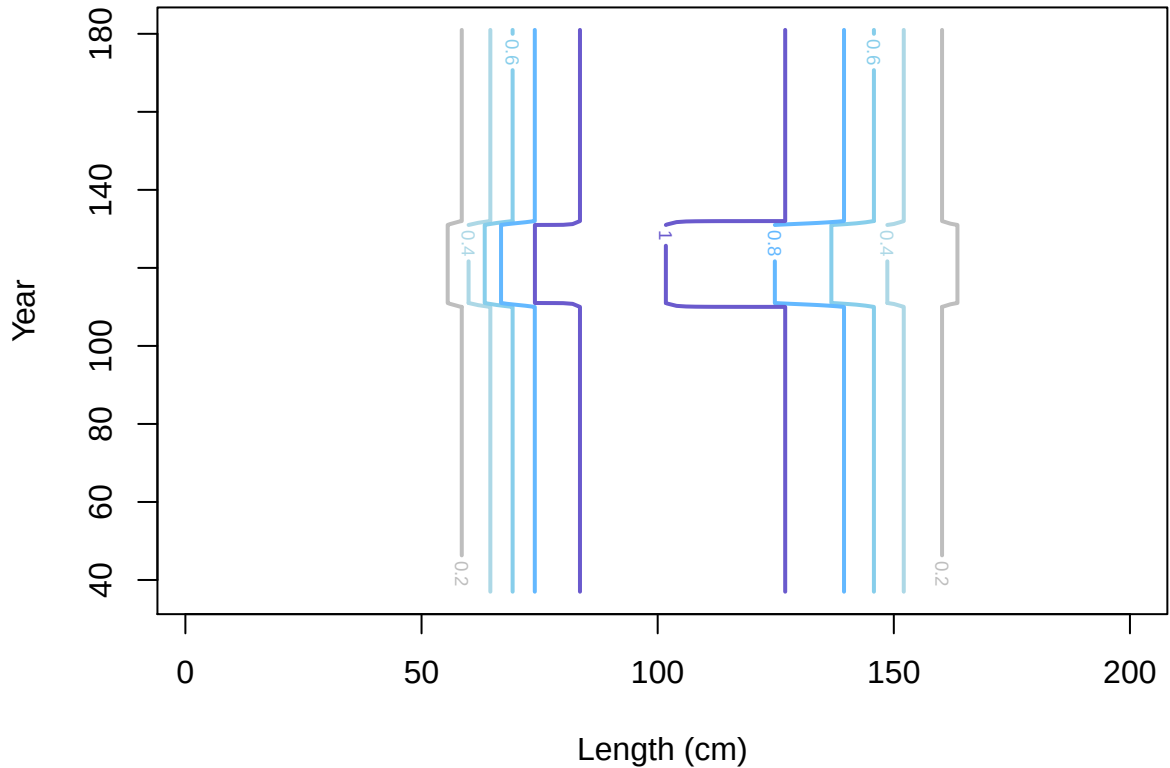
Female ending year selectivity for F18-DEL_C



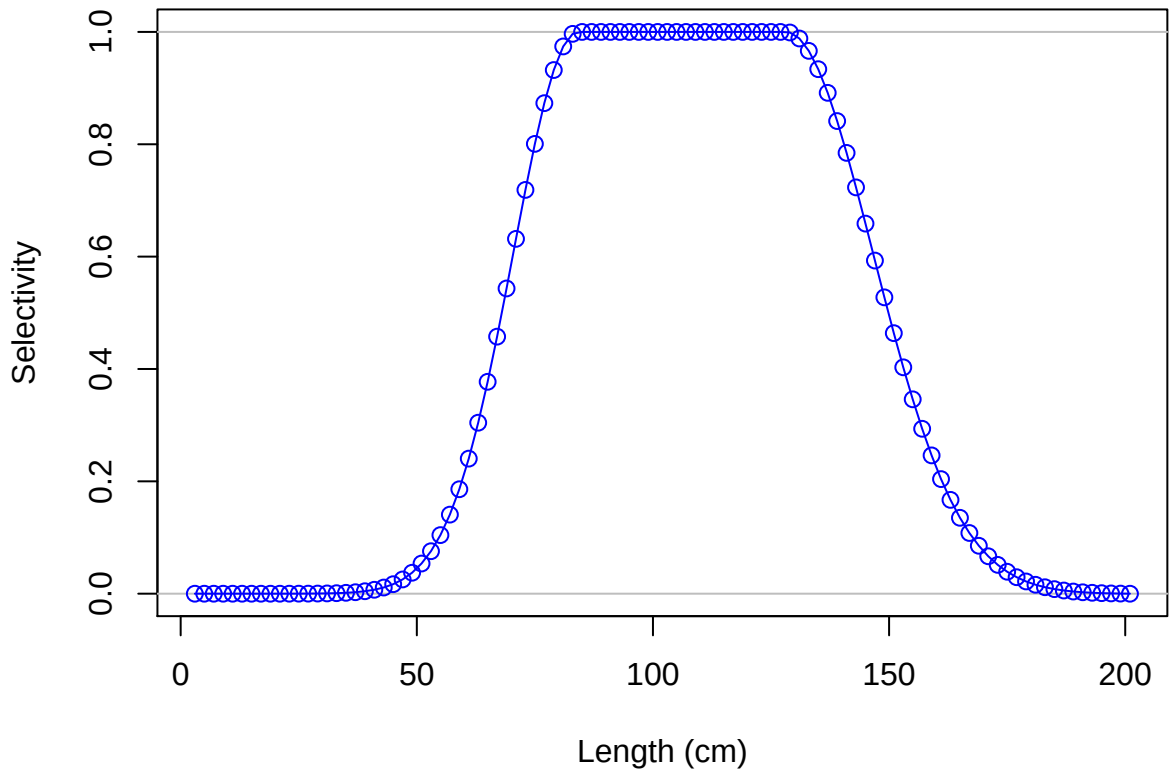
Male time-varying selectivity for F18-DEL_C



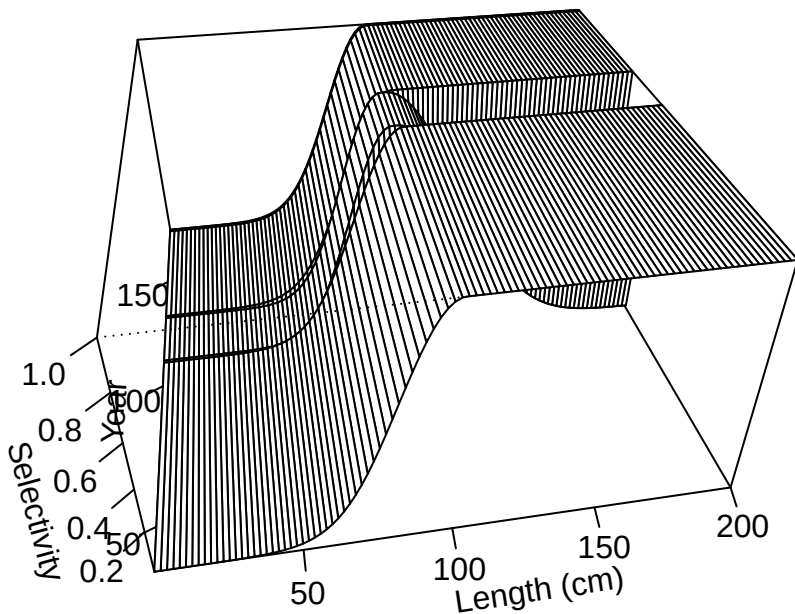
Male time-varying selectivity for F18-DEL_C



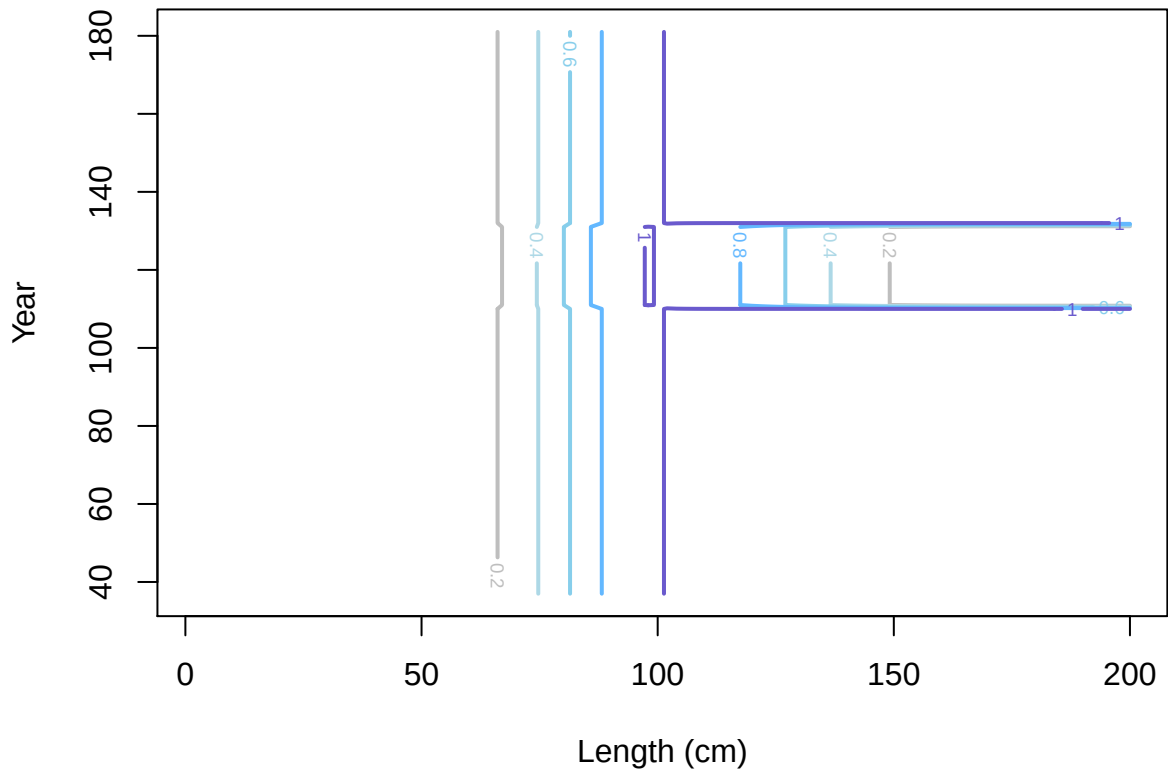
Male ending year selectivity for F18-DEL_C



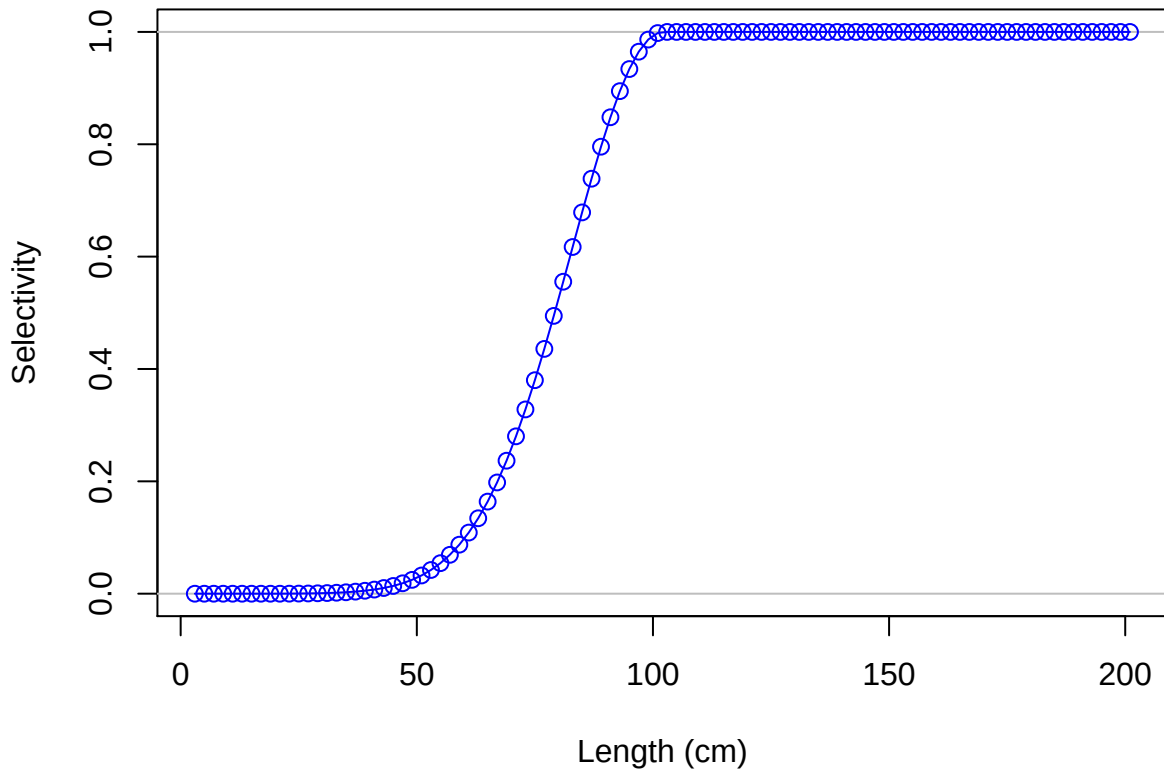
Female time-varying selectivity for F19-DEL_P



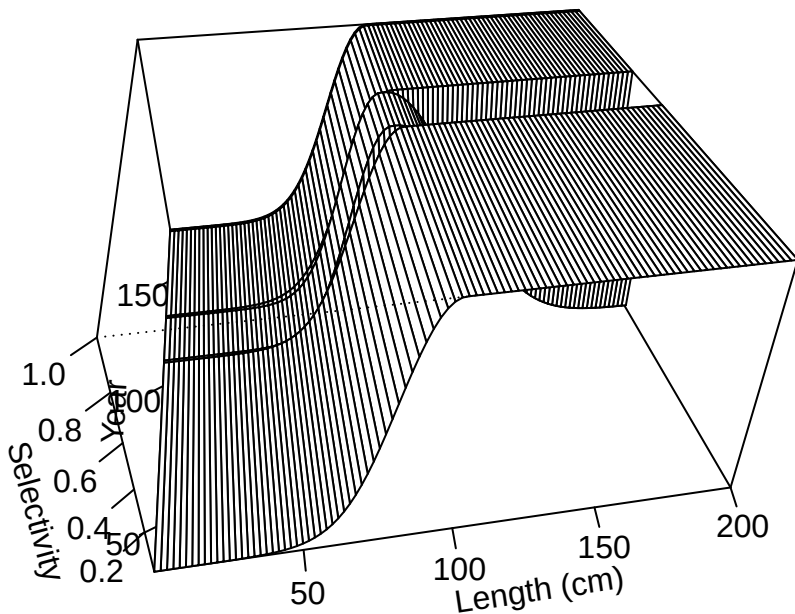
Female time-varying selectivity for F19-DEL_P



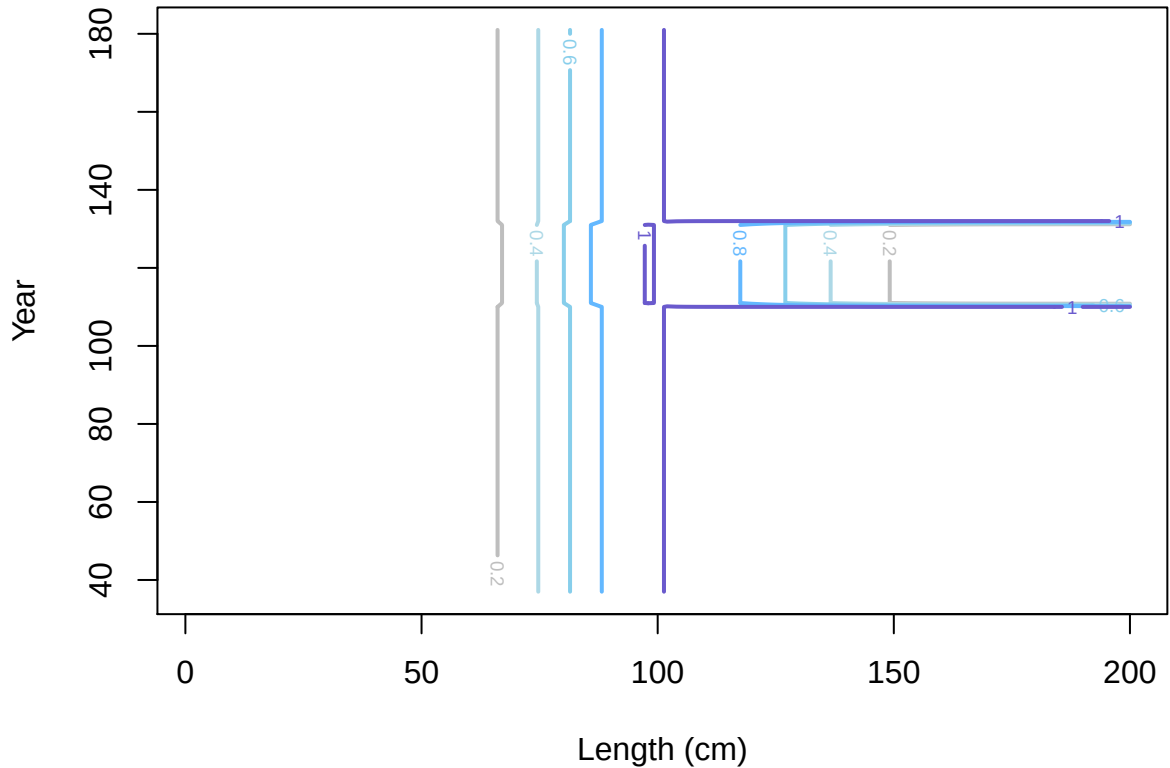
Female ending year selectivity for F19-DEL_P



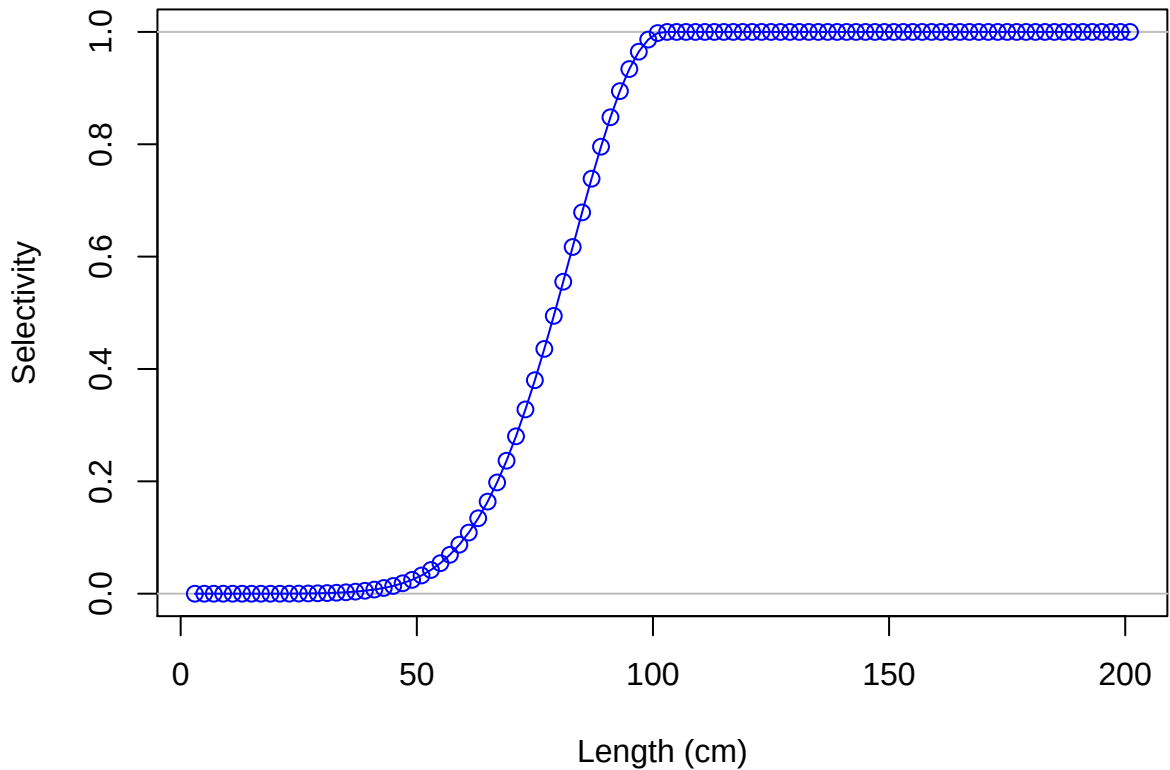
Male time-varying selectivity for F19-DEL_P



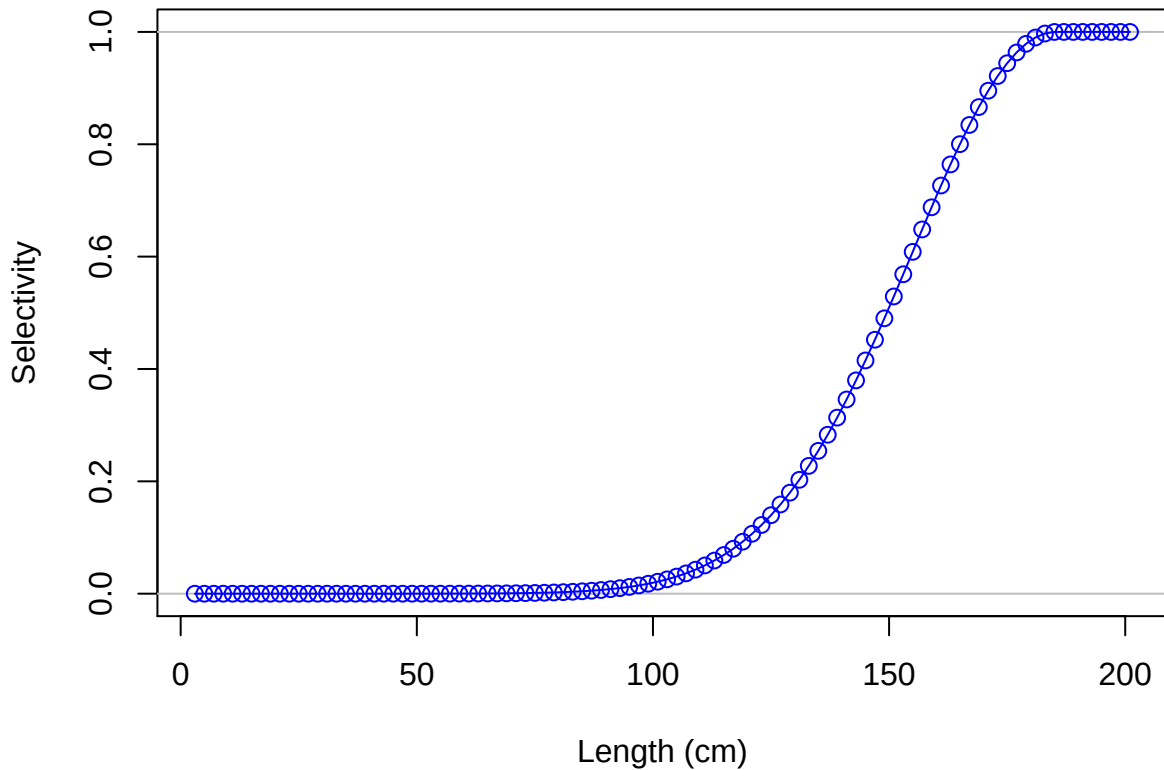
Male time-varying selectivity for F19-DEL_P



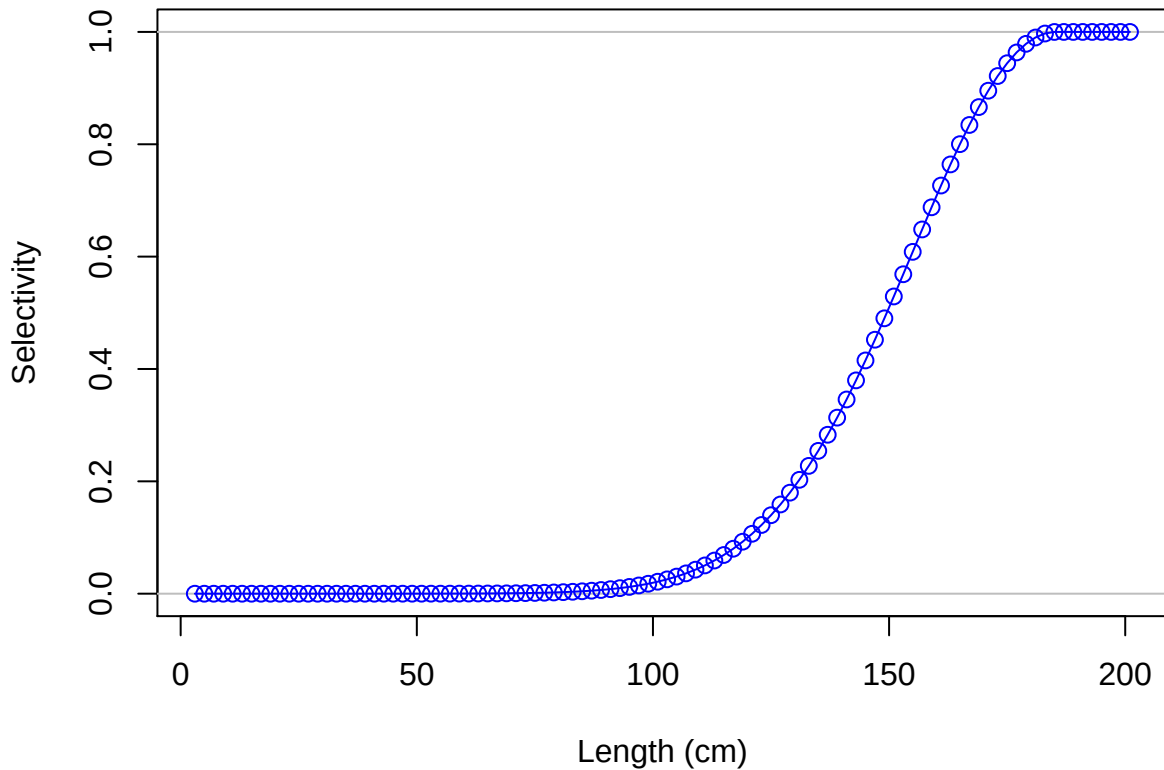
Male ending year selectivity for F19-DEL_P



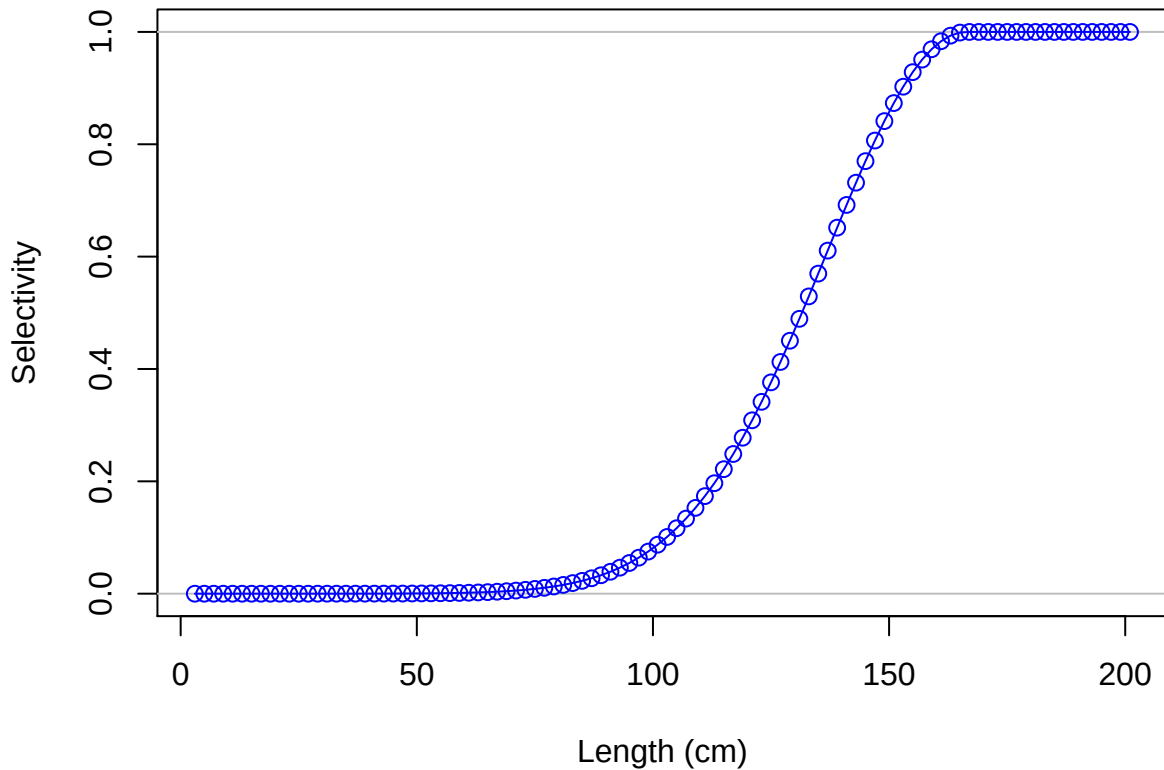
Female ending year selectivity for F20-DEL_S



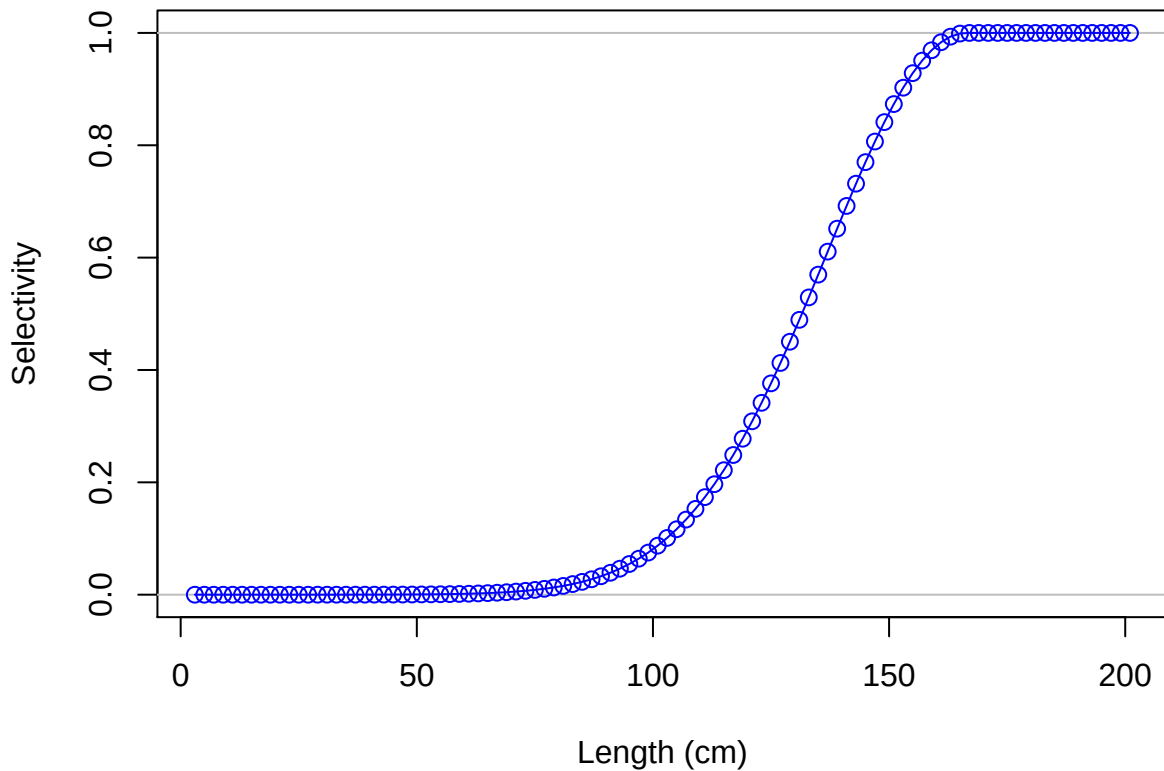
Male ending year selectivity for F20-DEL_S



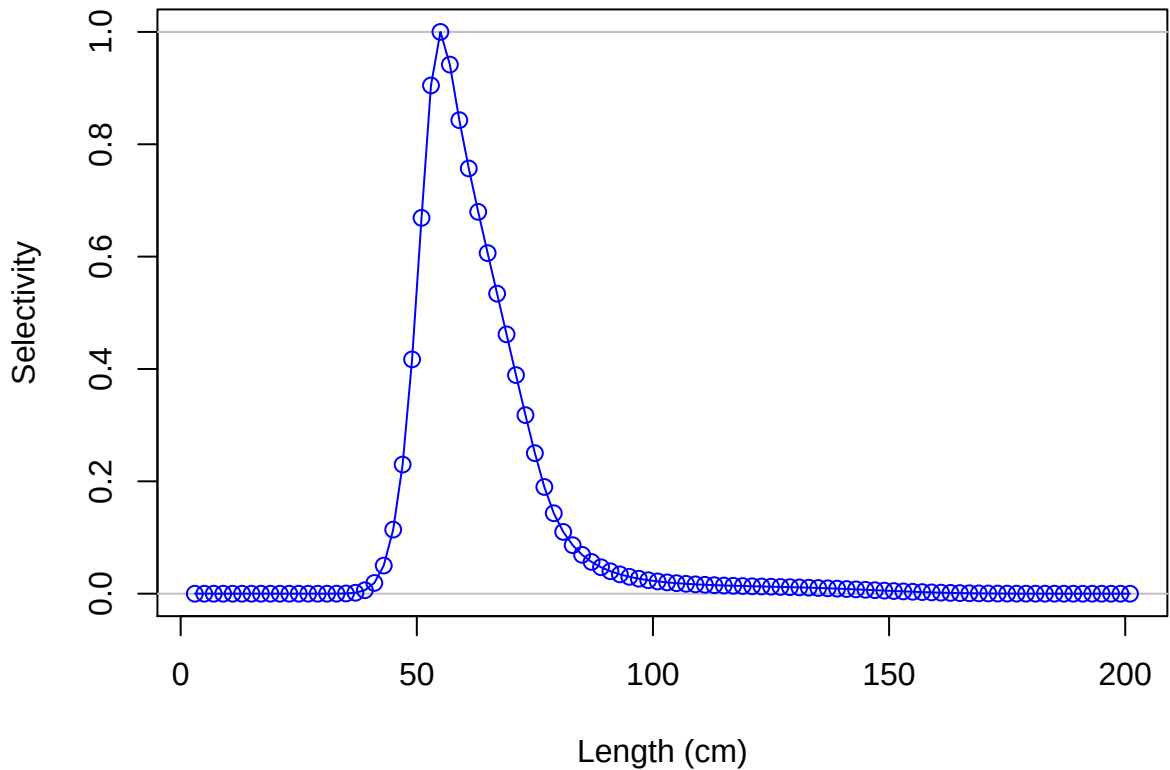
Female ending year selectivity for F21-DEL_I



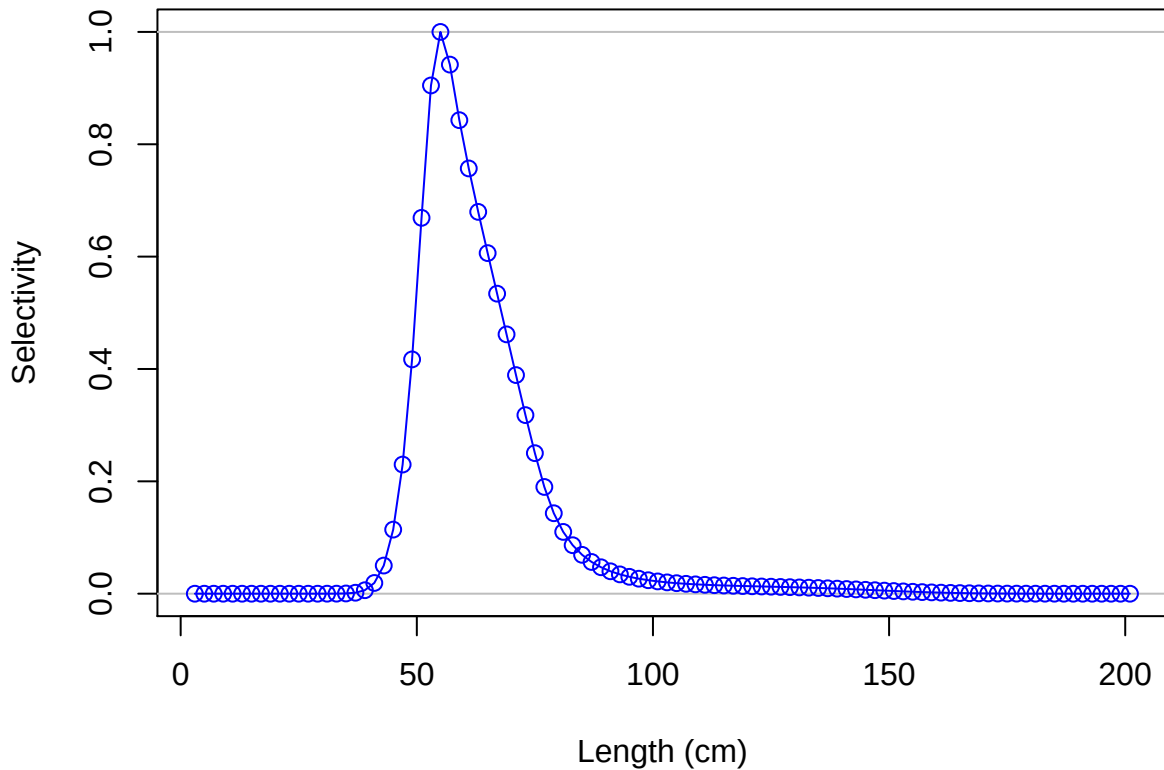
Male ending year selectivity for F21-DEL_I



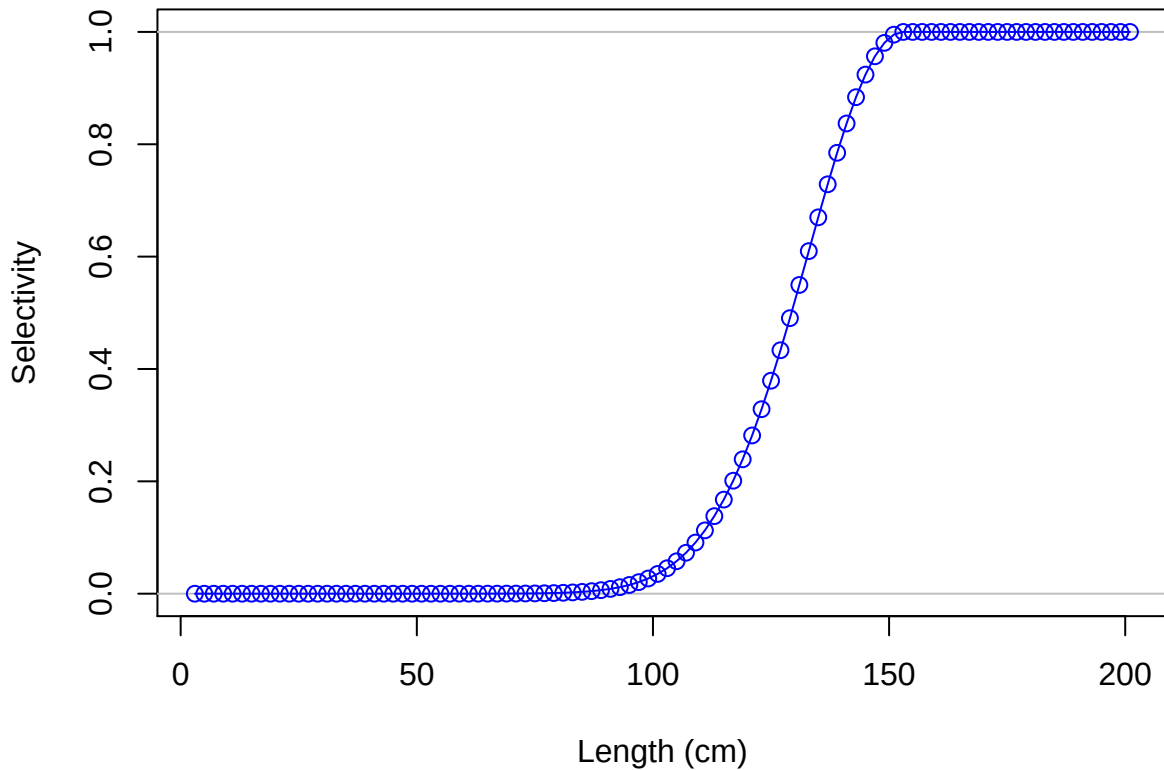
Female ending year selectivity for F22-BB



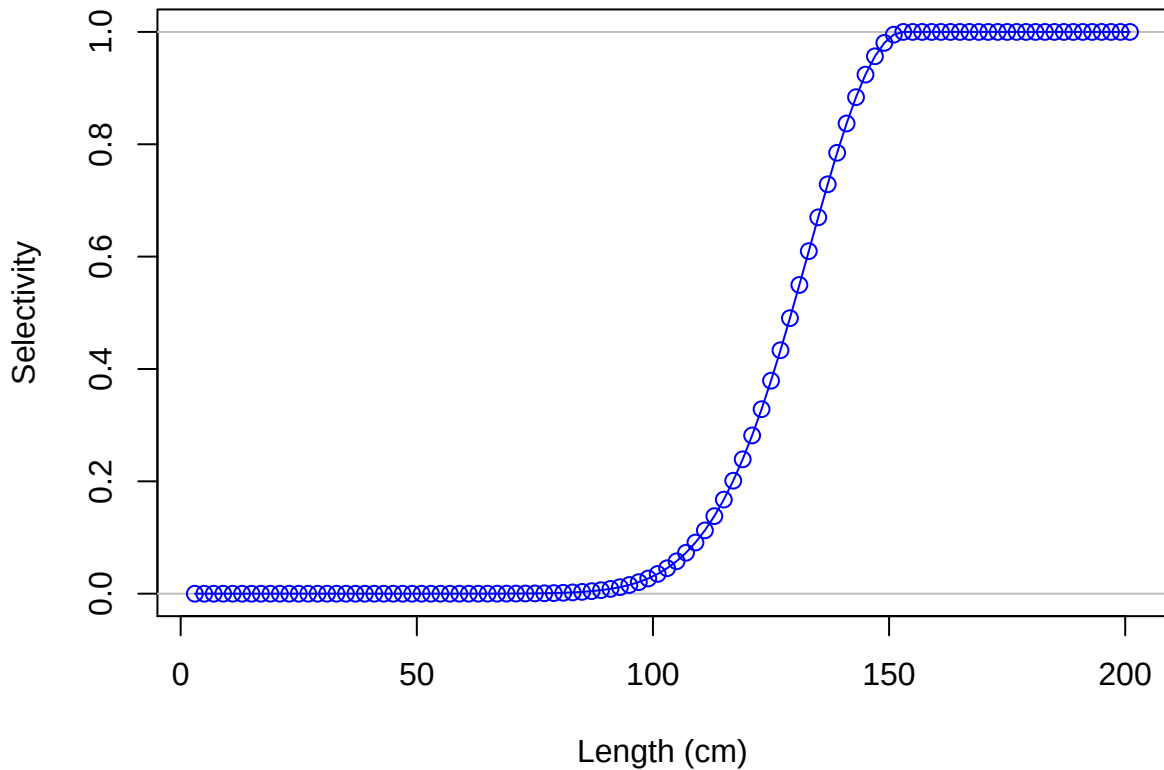
Male ending year selectivity for F22-BB



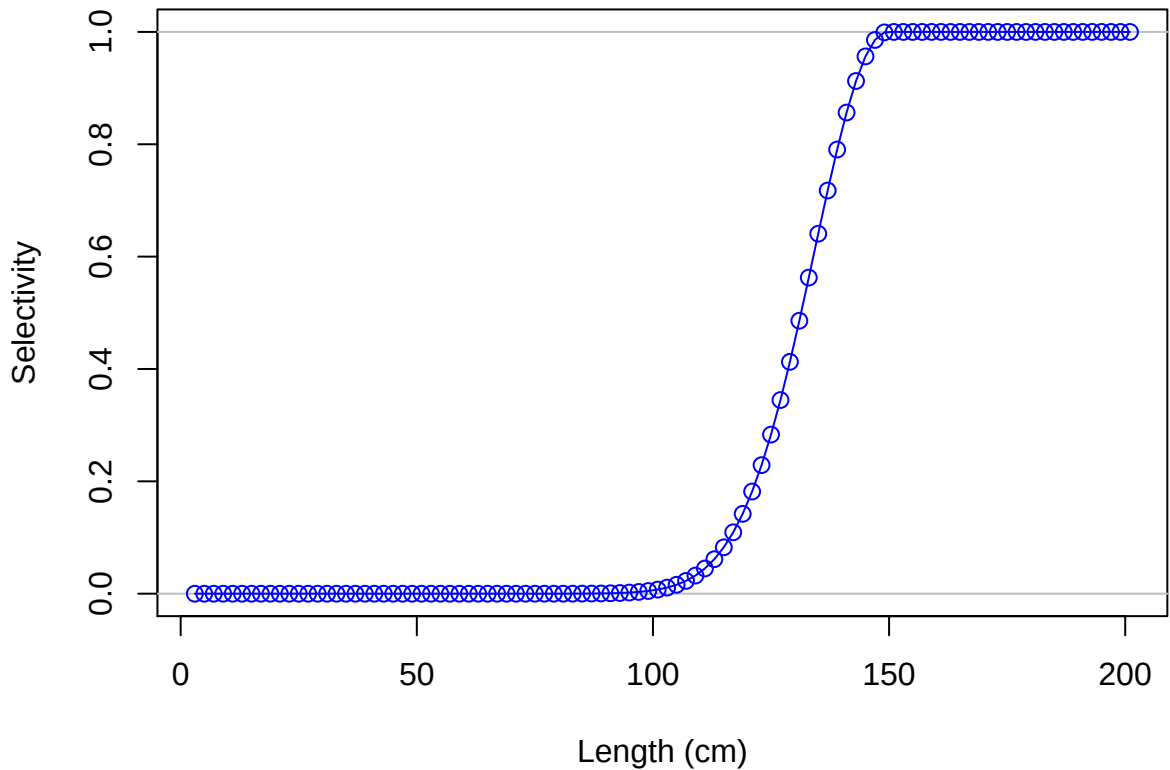
Female ending year selectivity for F29-LL_W_Q14n



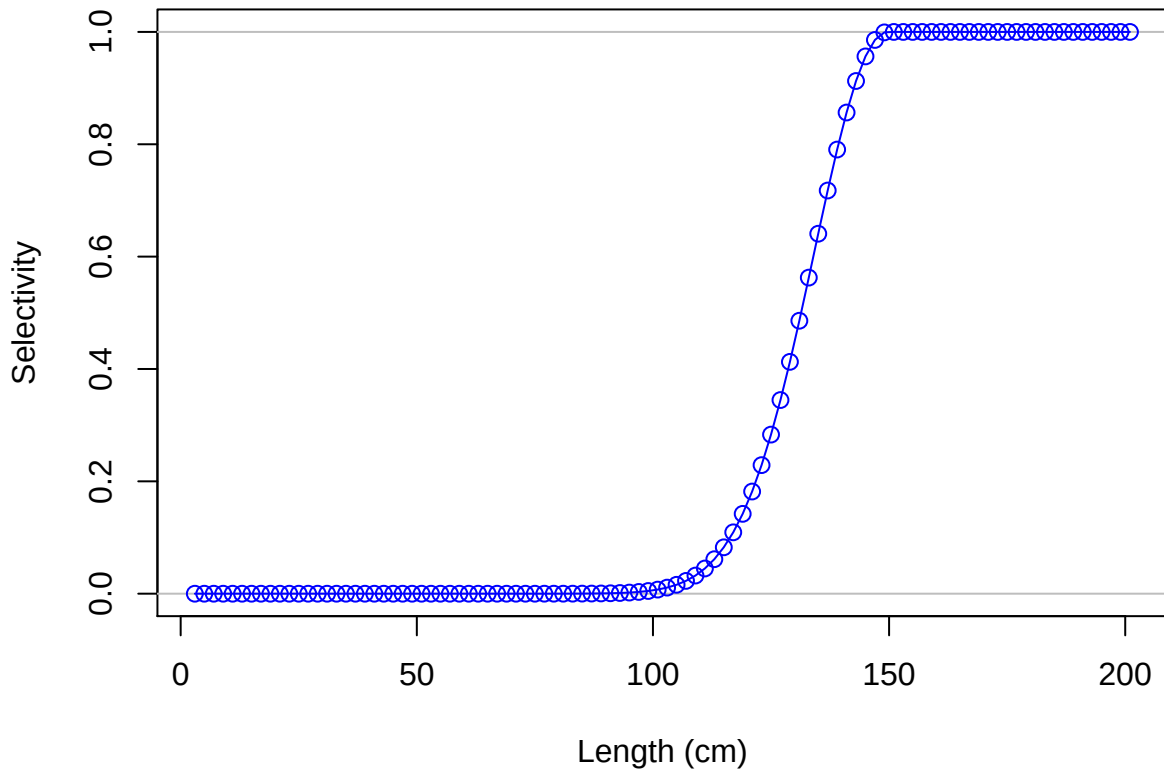
Male ending year selectivity for F29-LL_W_Q14n



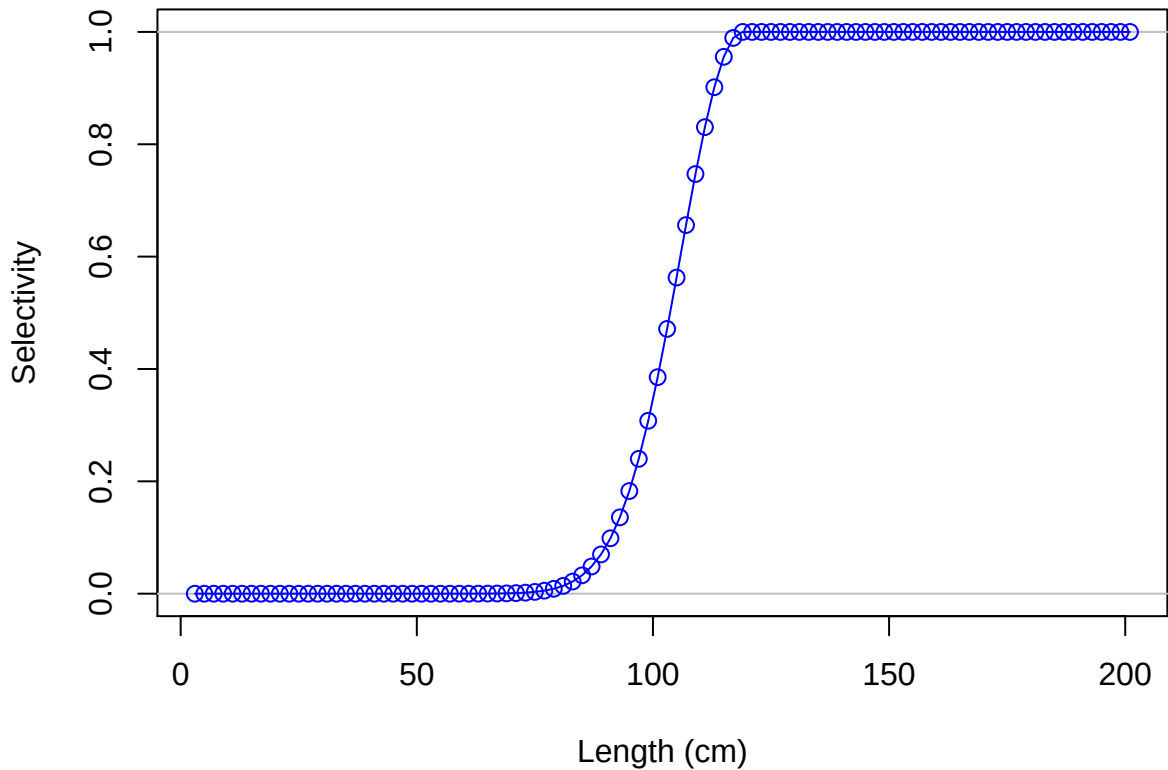
Female ending year selectivity for F30-LL_C_Q14n



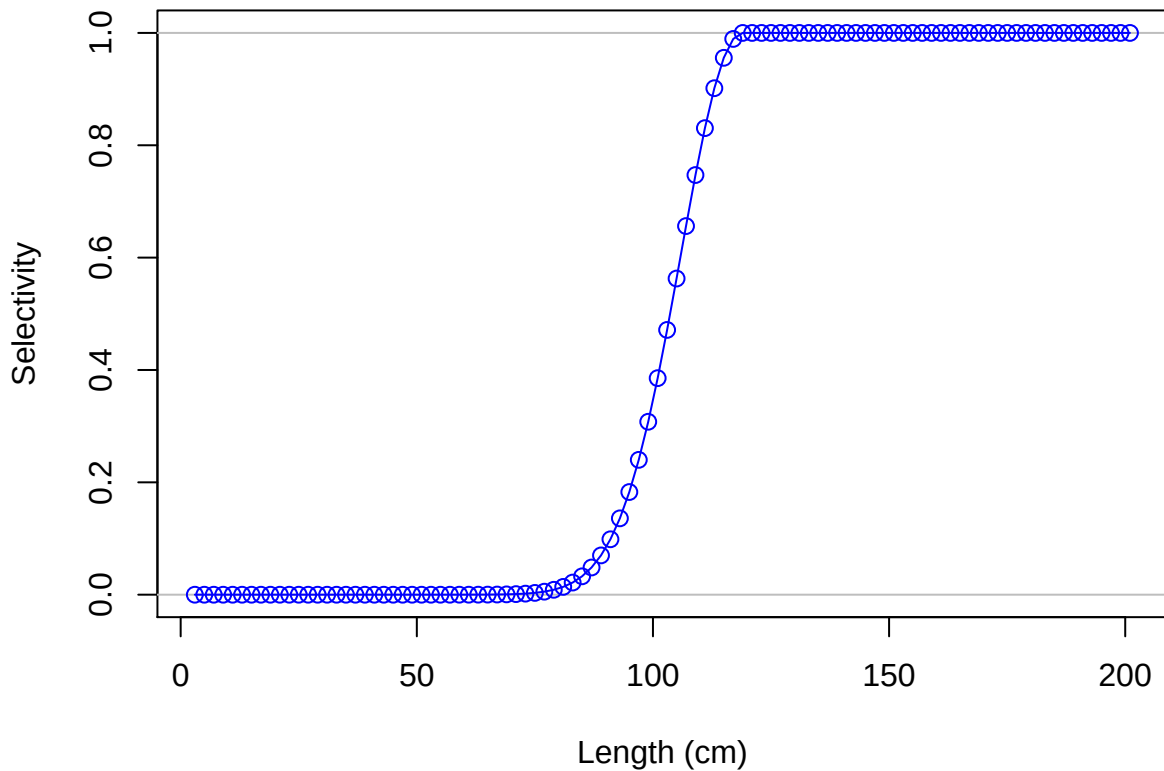
Male ending year selectivity for F30-LL_C_Q14n



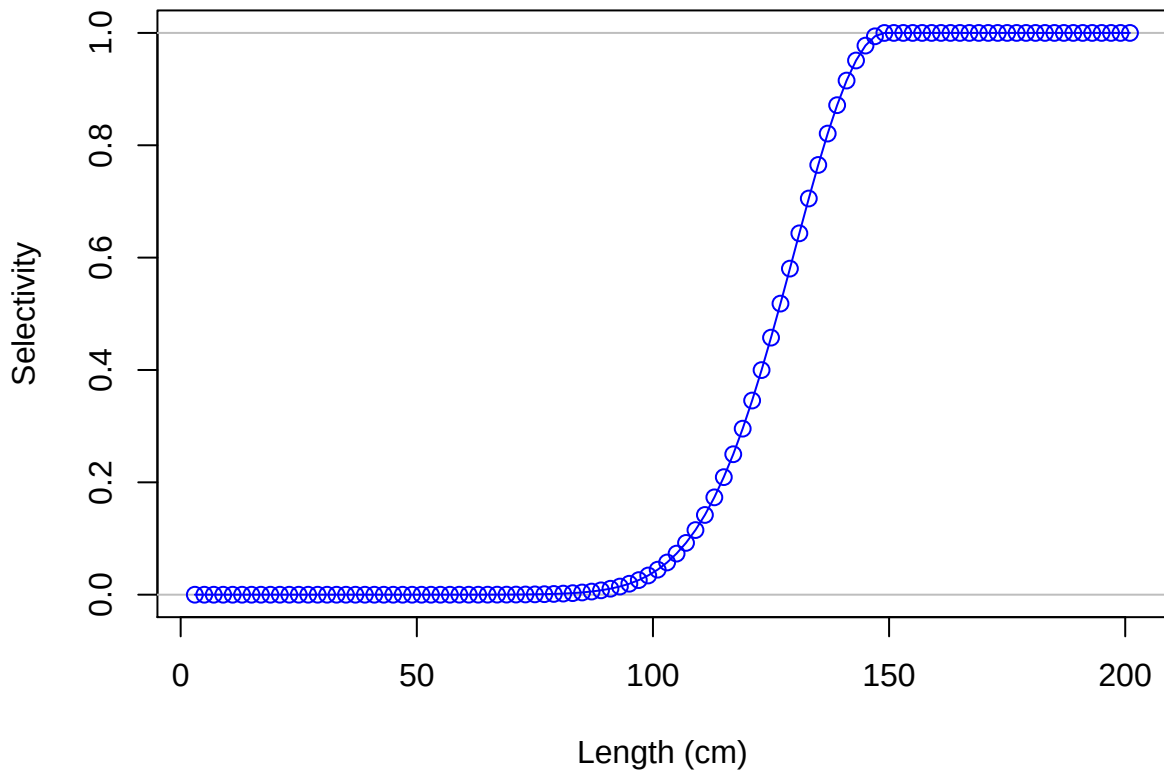
Female ending year selectivity for F31-LL_E_Q14n



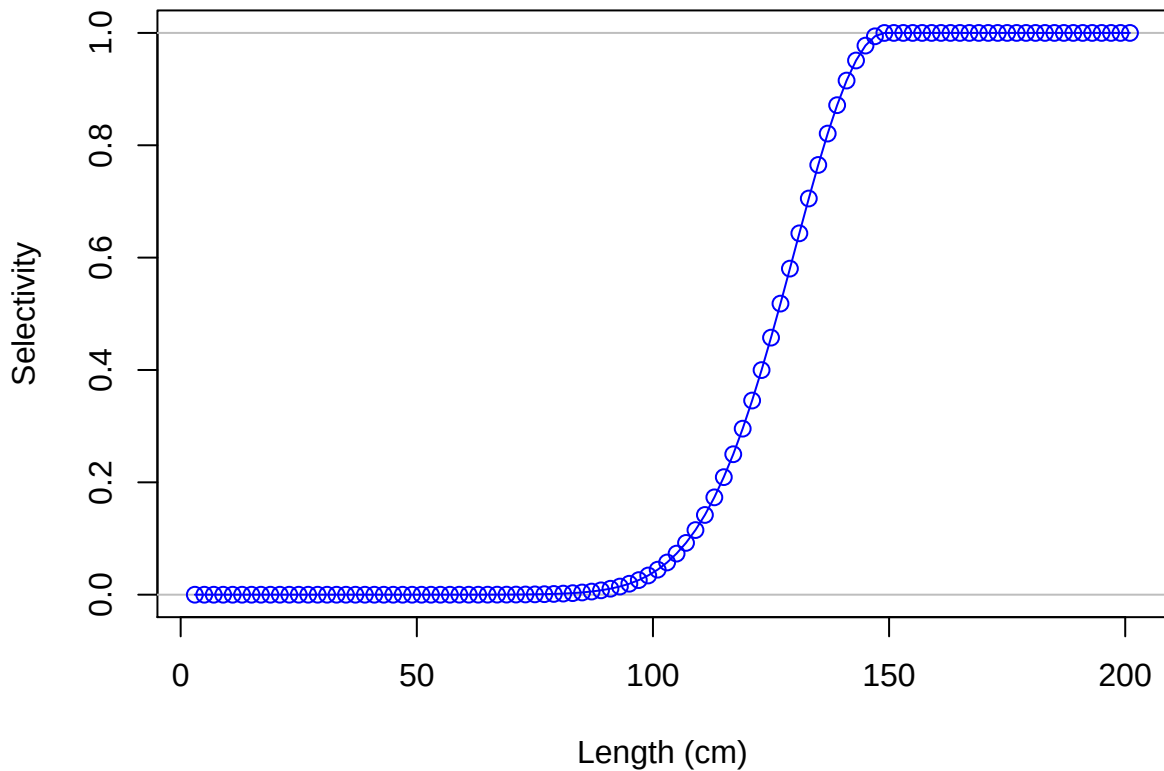
Male ending year selectivity for F31-LL_E_Q14n



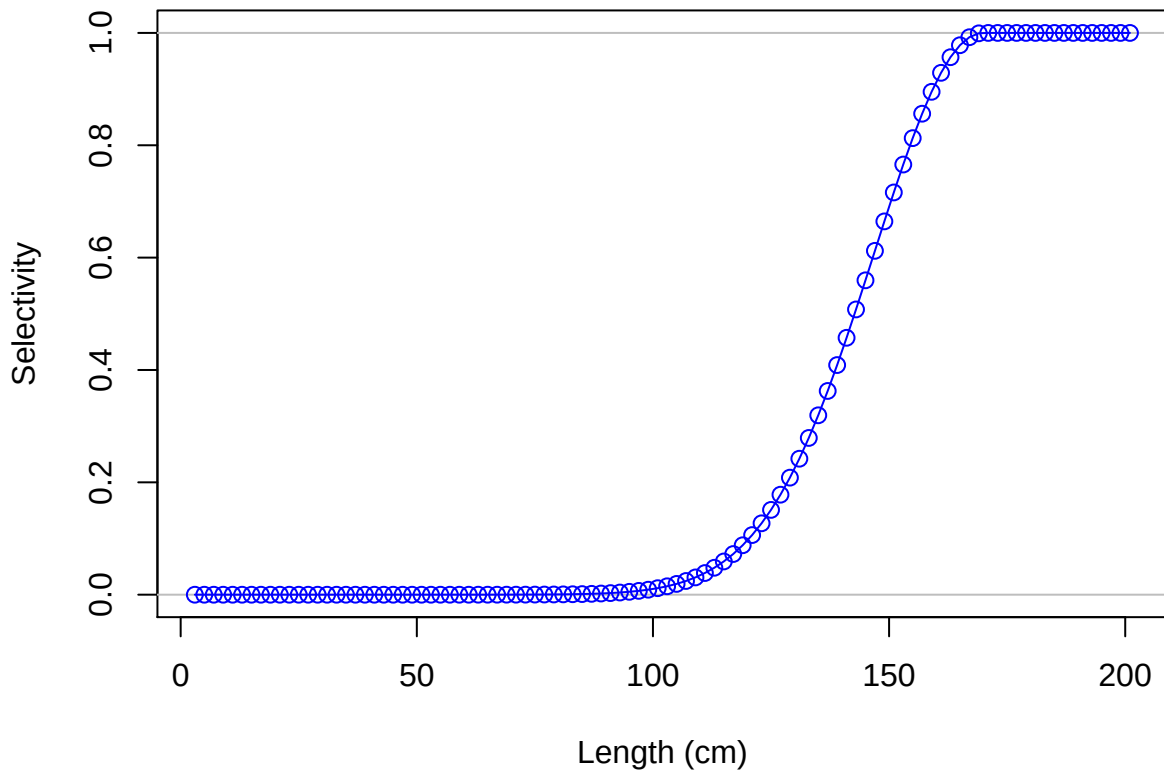
Female ending year selectivity for F32-LL_W_Q23n



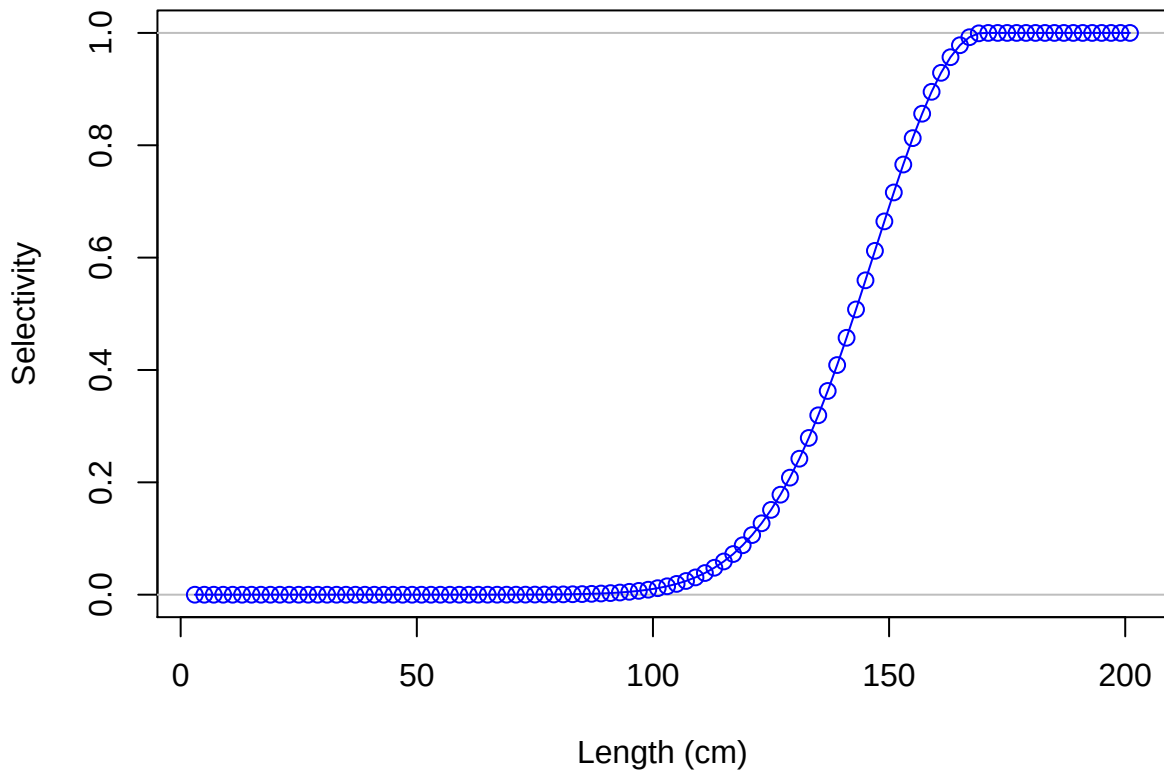
Male ending year selectivity for F32-LL_W_Q23n



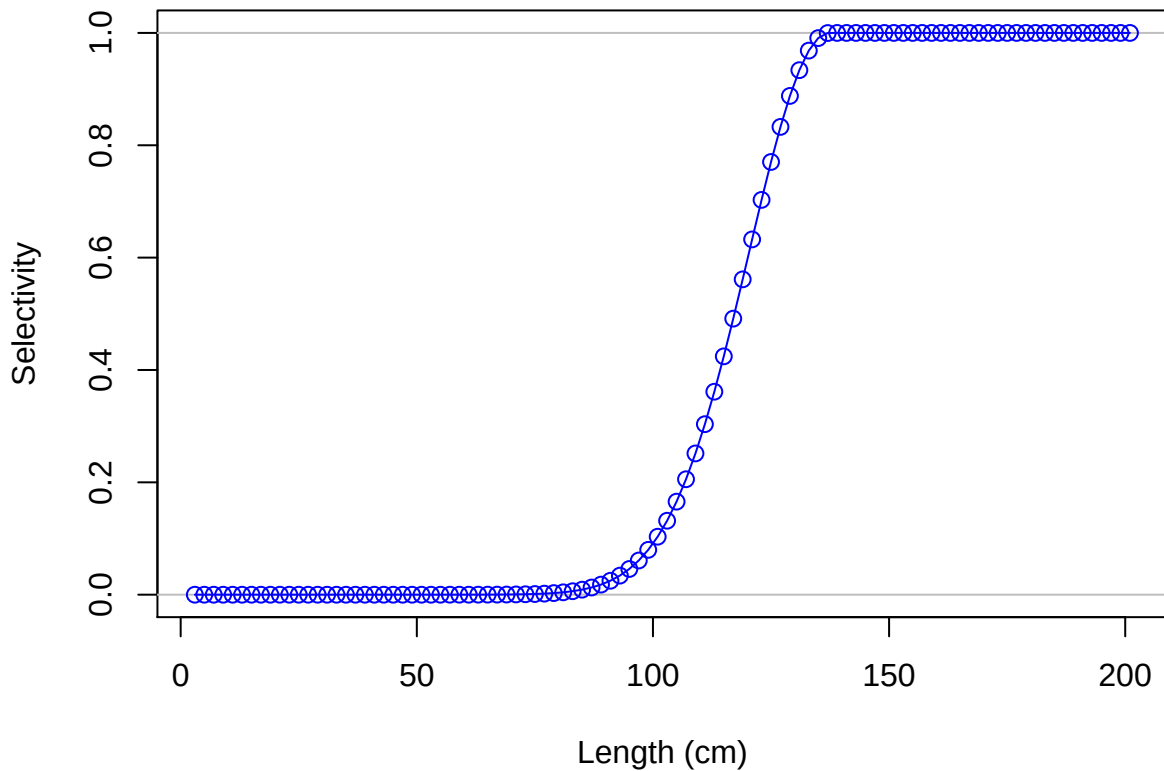
Female ending year selectivity for F33-LL_C_Q23n



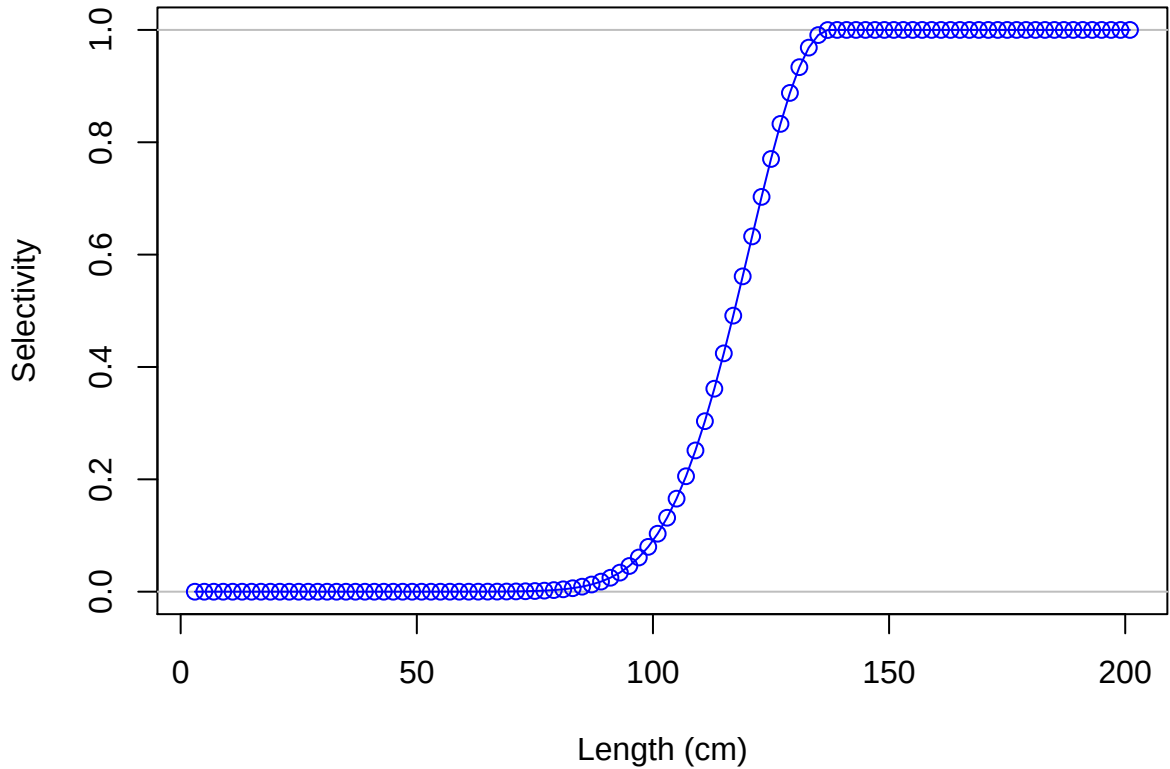
Male ending year selectivity for F33-LL_C_Q23n



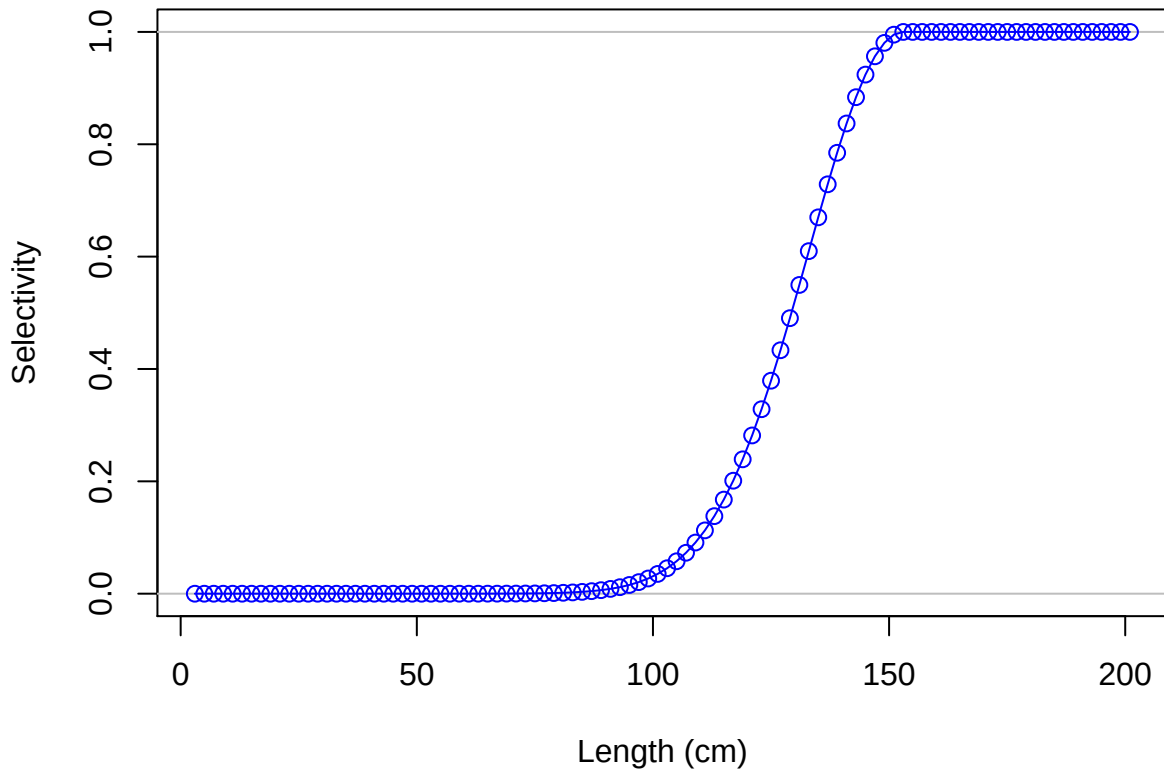
Female ending year selectivity for F34-LL_E_Q23n



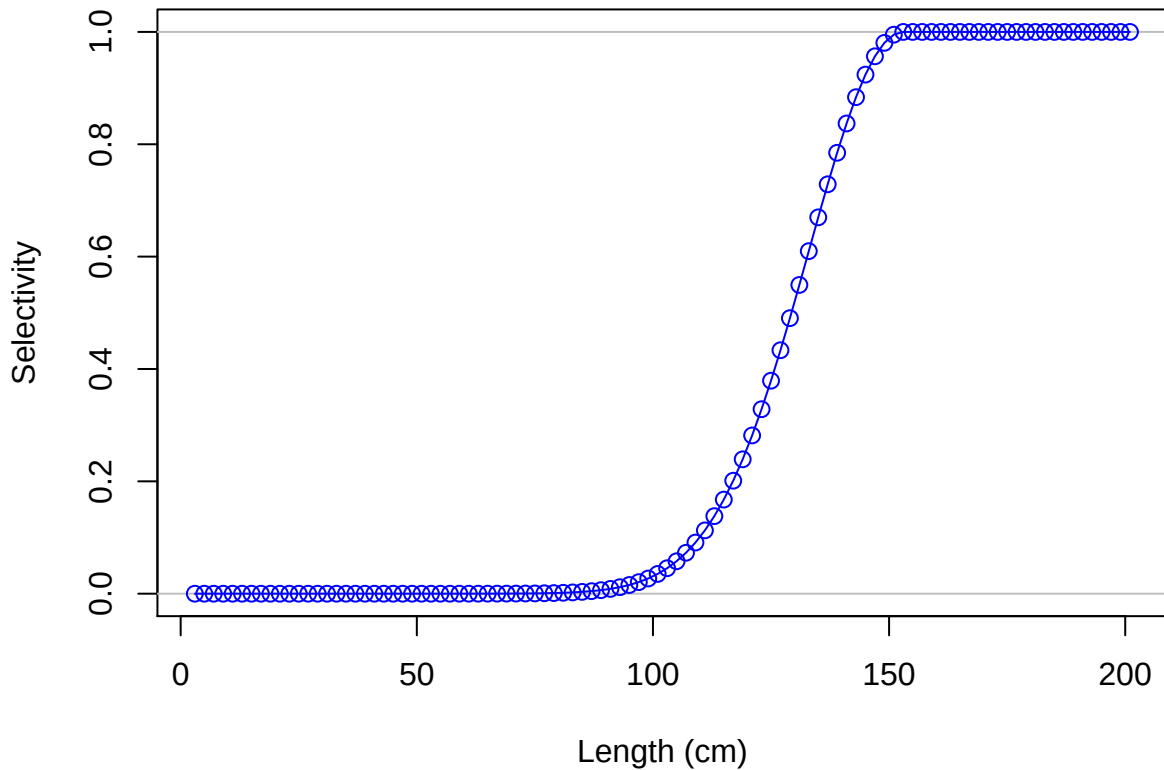
Male ending year selectivity for F34-LL_E_Q23n



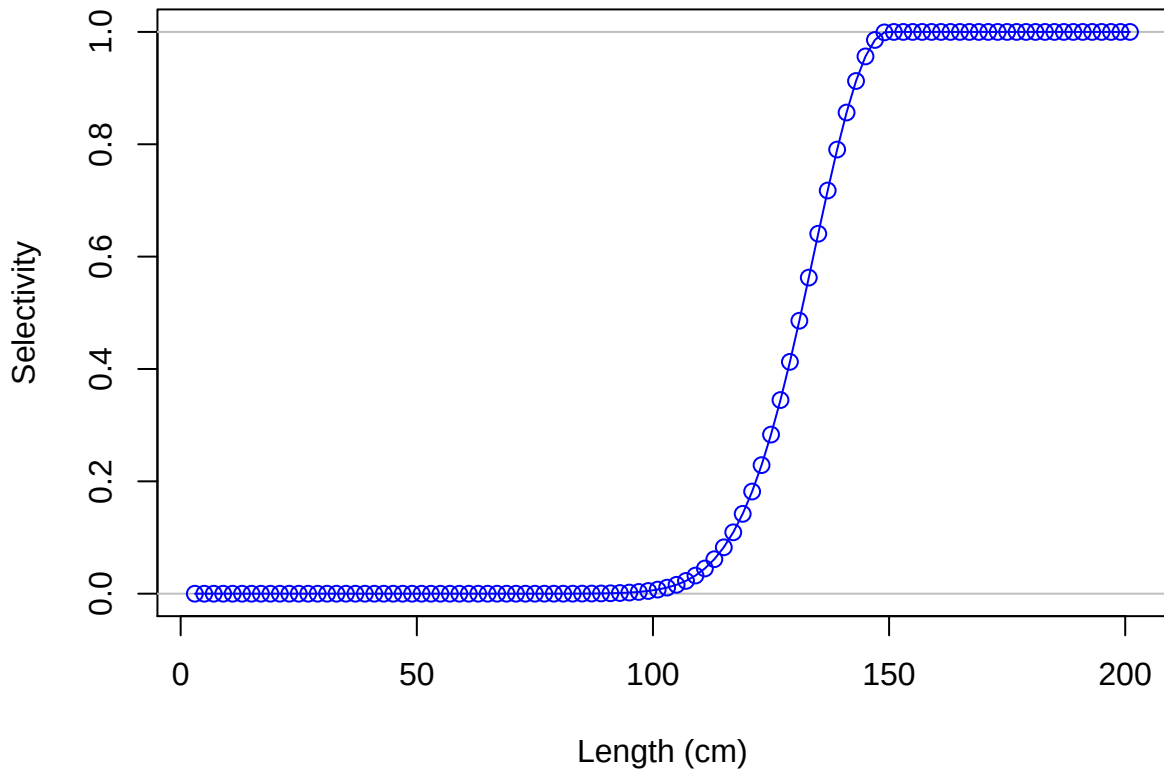
Female ending year selectivity for F35-LL_W_Q14w



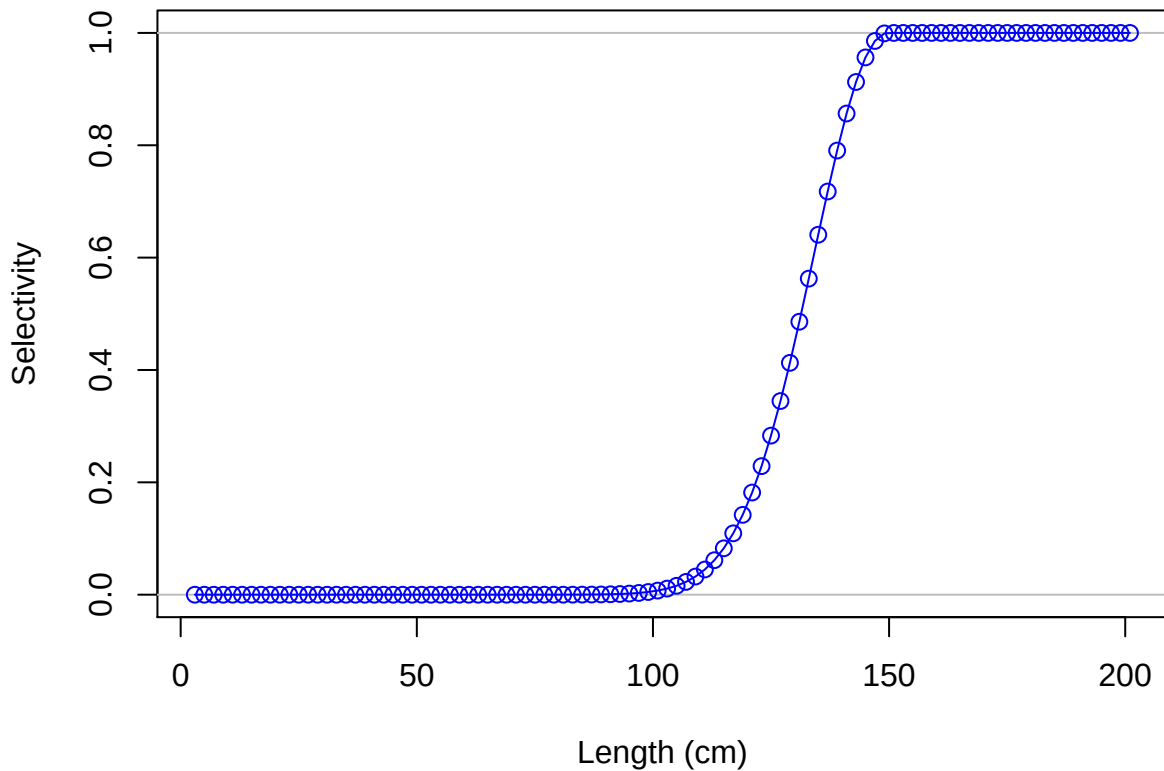
Male ending year selectivity for F35-LL_W_Q14w



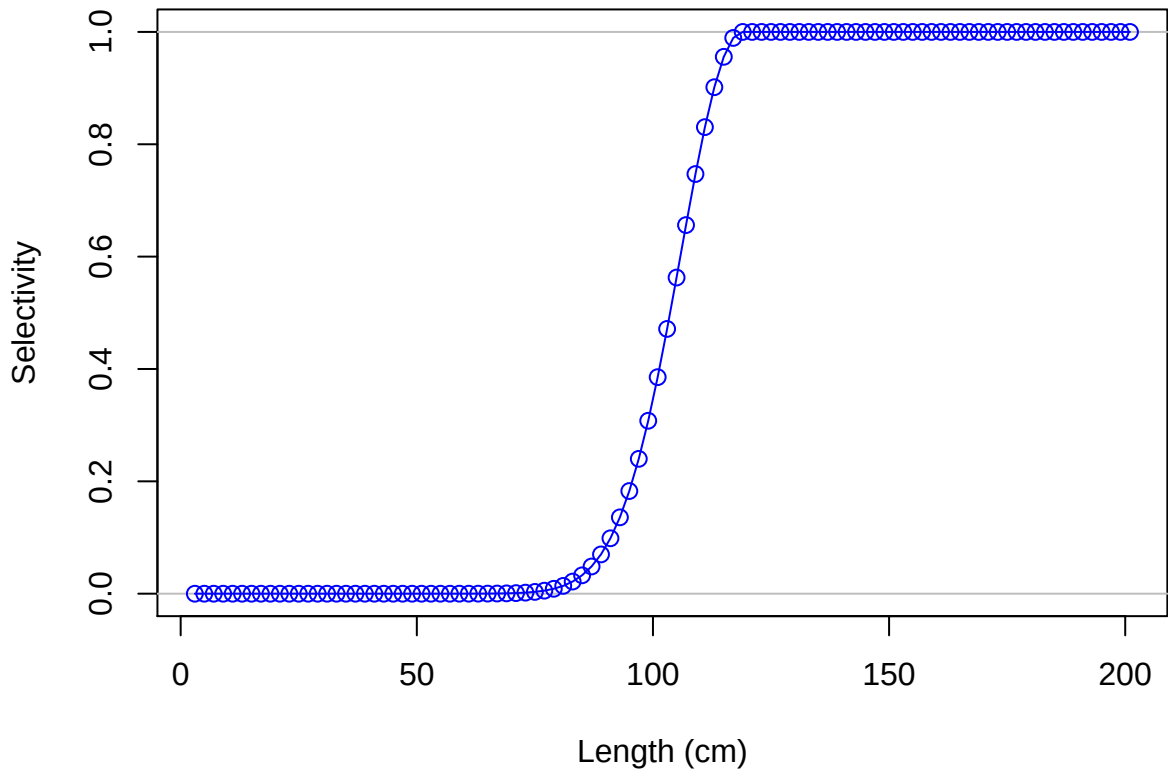
Female ending year selectivity for F36-LL_C_Q14w



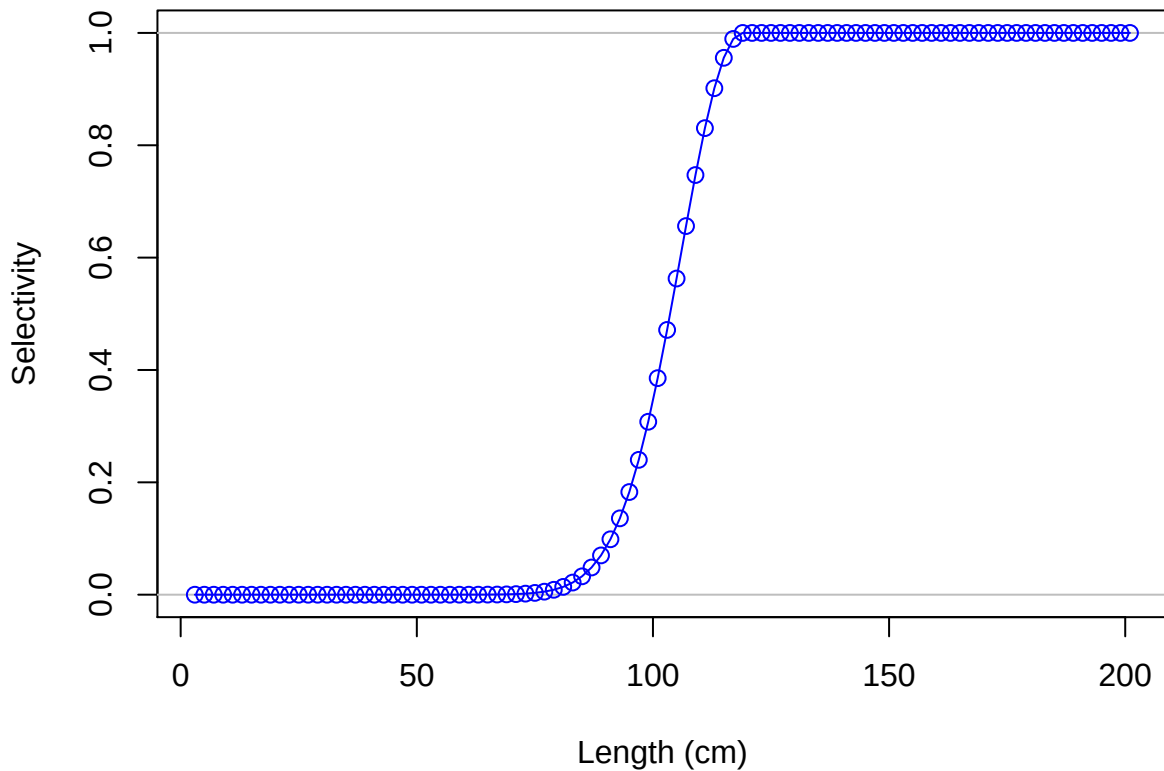
Male ending year selectivity for F36-LL_C_Q14w



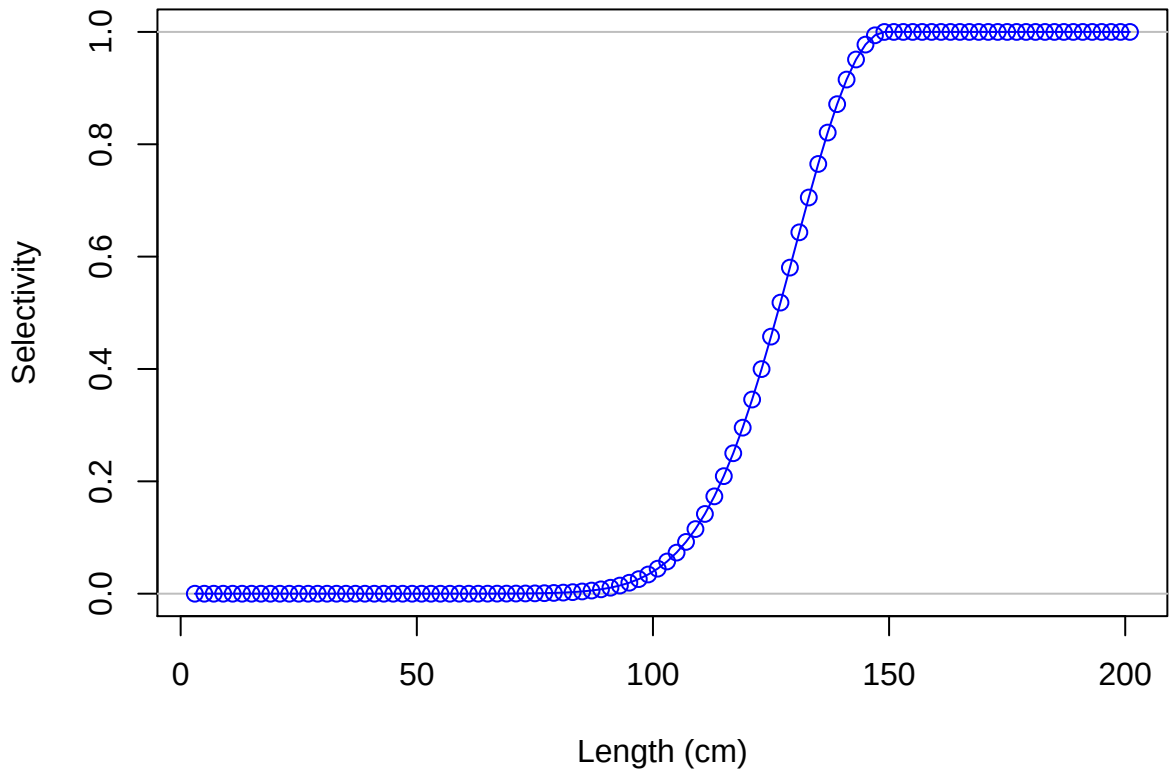
Female ending year selectivity for F37-LL_E_Q14w



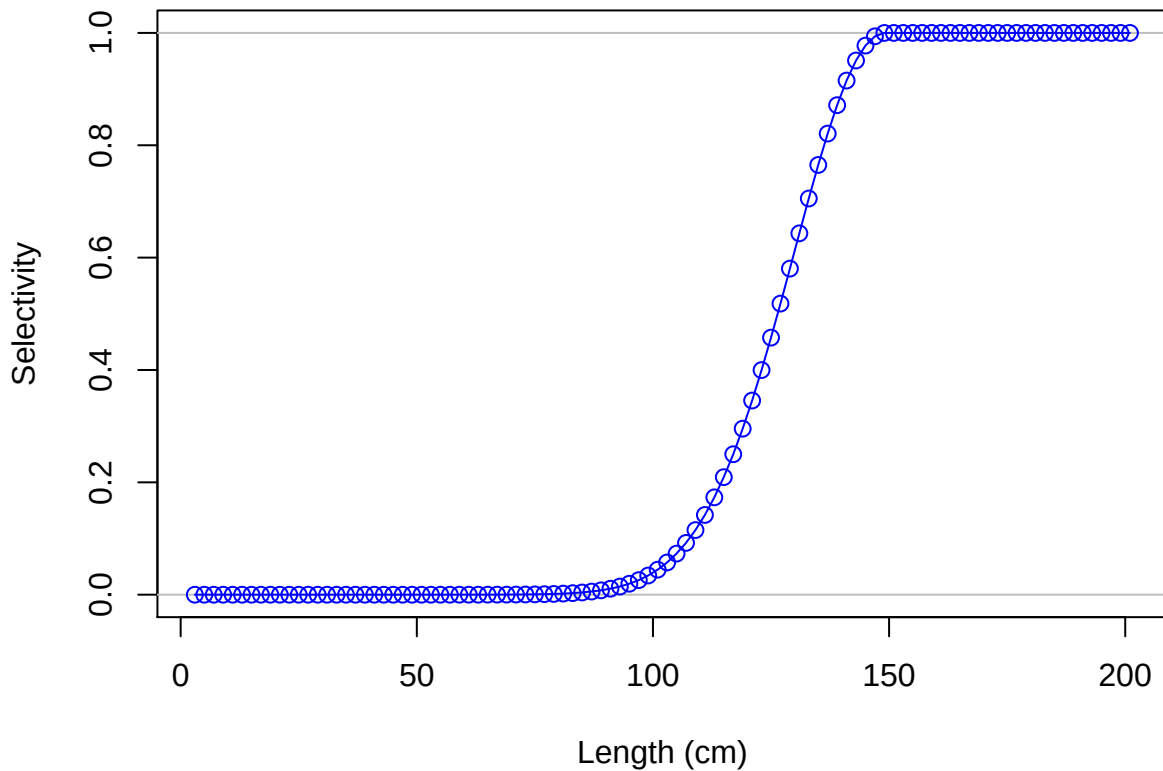
Male ending year selectivity for F37-LL_E_Q14w



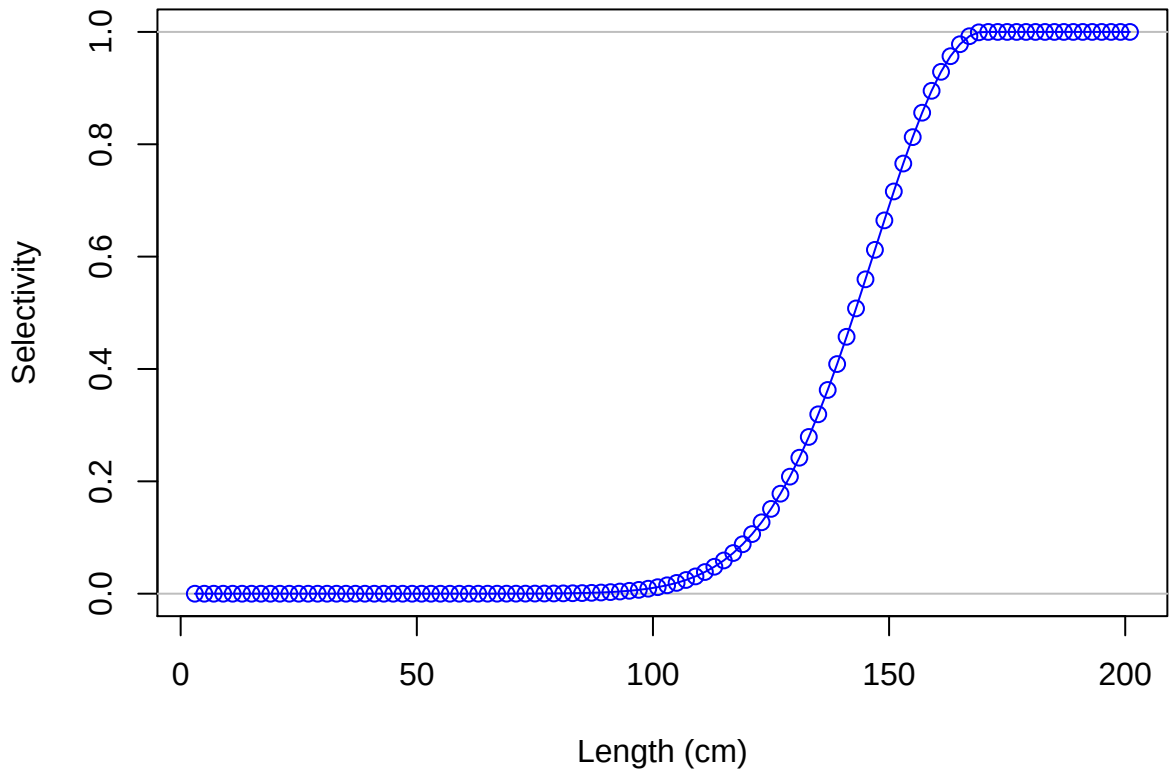
Female ending year selectivity for F38-LL_W_Q23w



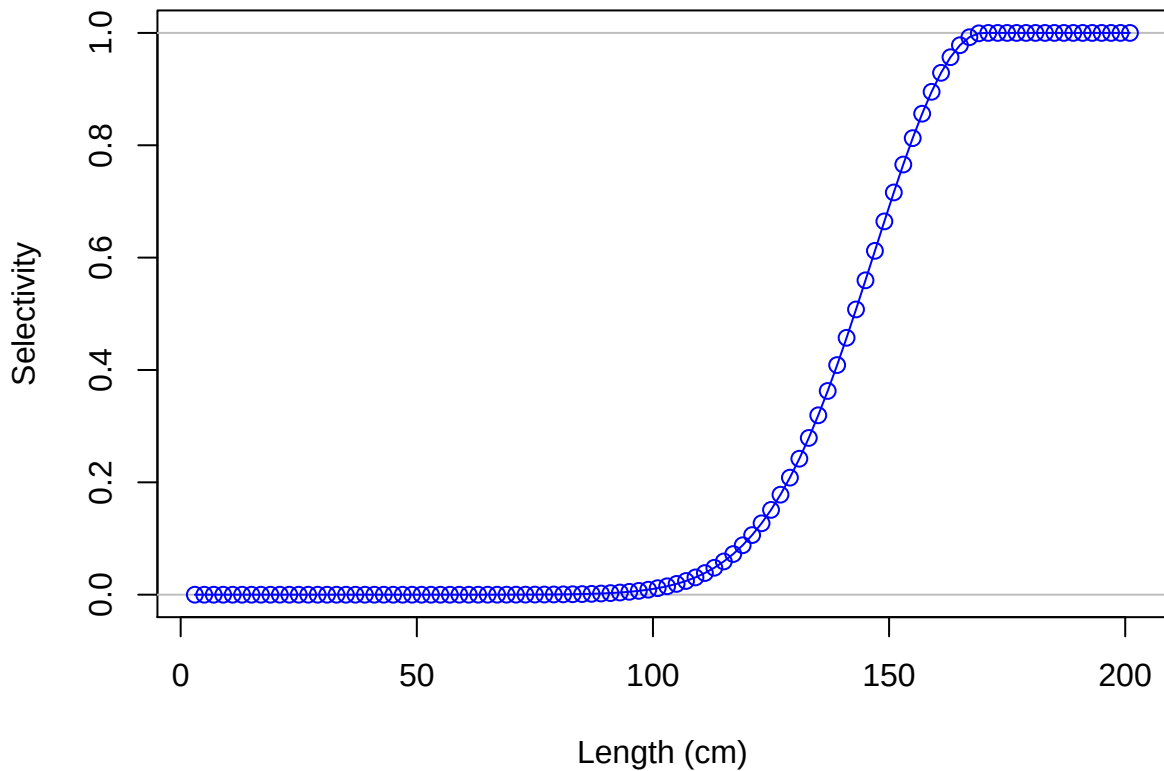
Male ending year selectivity for F38-LL_W_Q23w



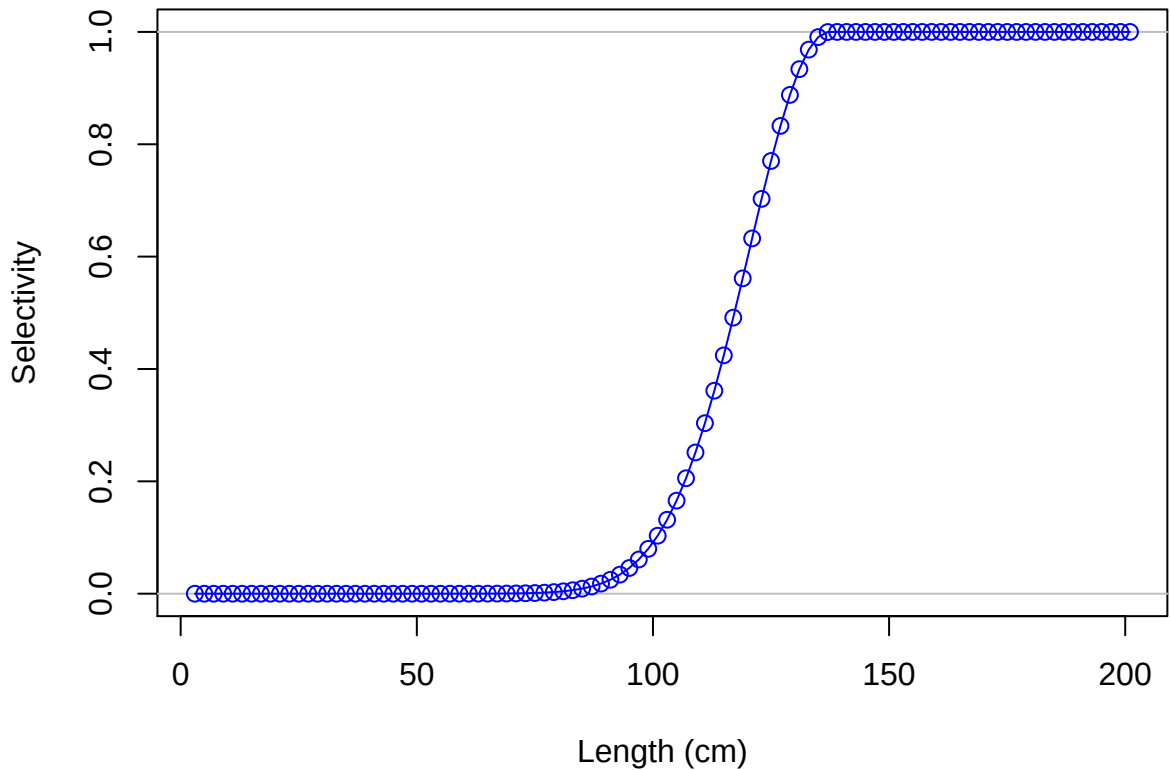
Female ending year selectivity for F39-LL_C_Q23w



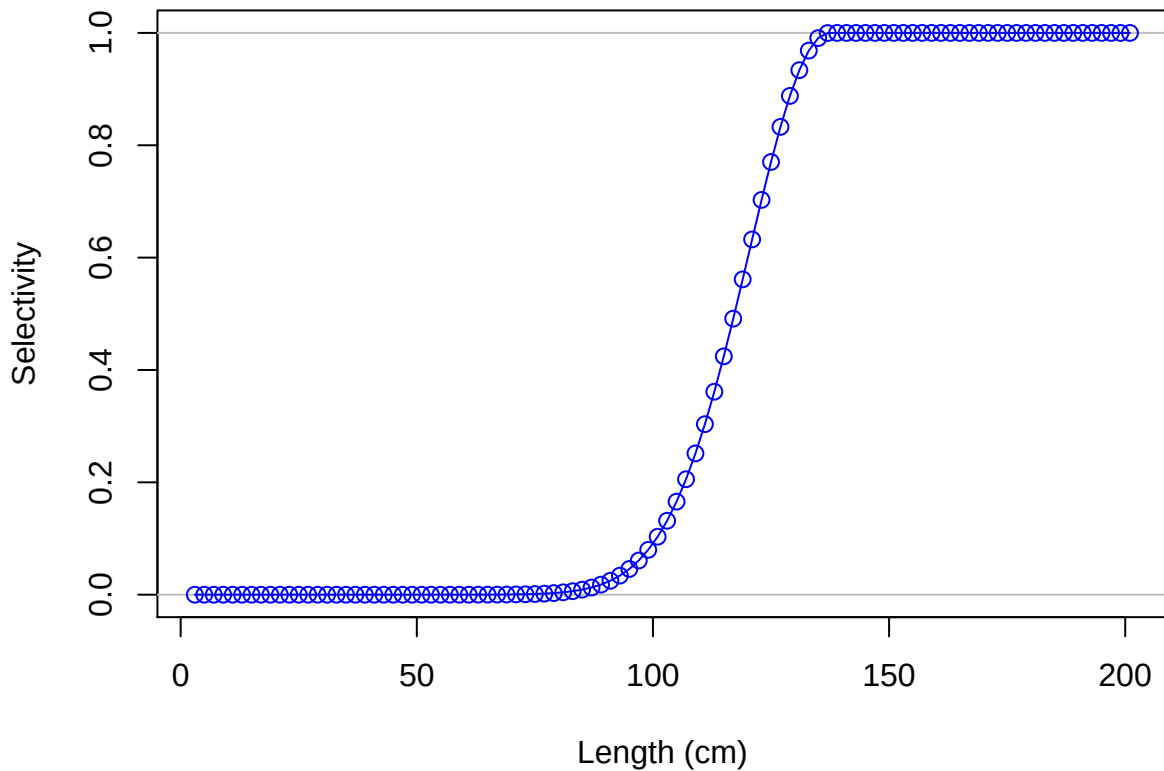
Male ending year selectivity for F39-LL_C_Q23w



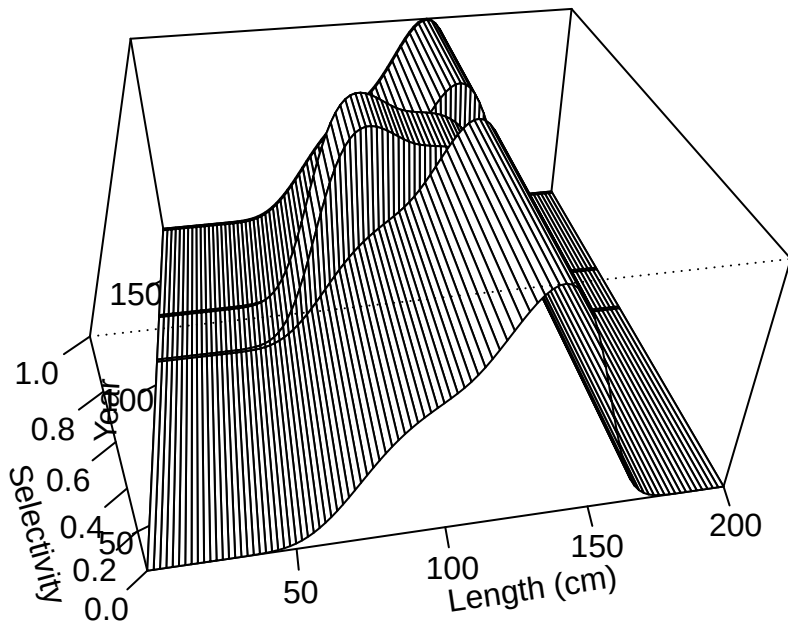
Female ending year selectivity for F40-LL_E_Q23w



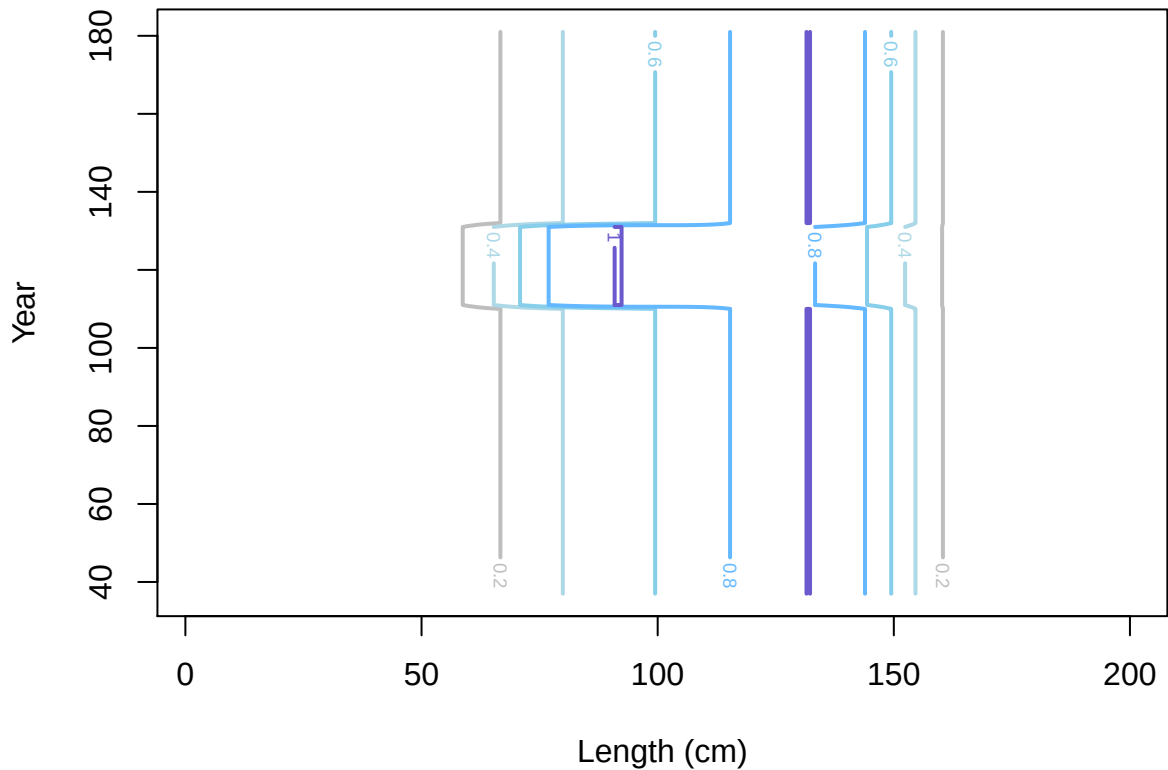
Male ending year selectivity for F40-LL_E_Q23w



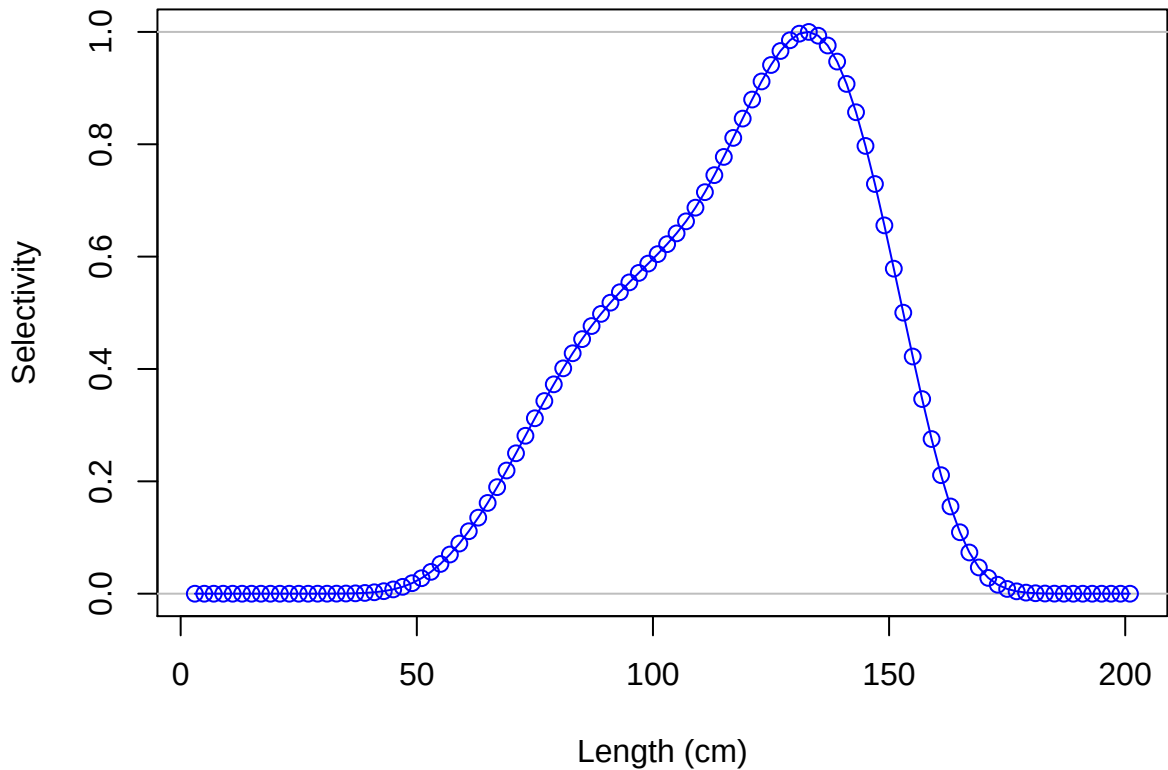
Female time-varying selectivity for S1-PS_DEL_VAST



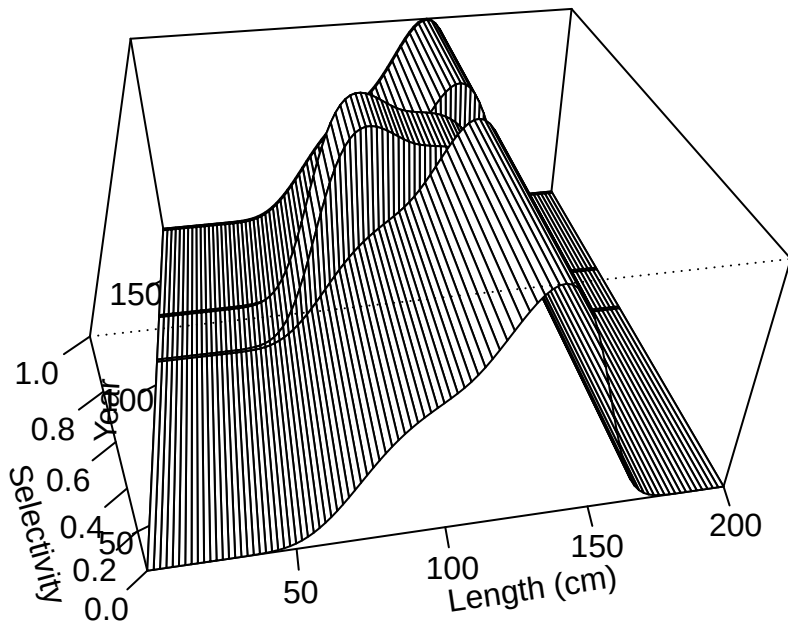
Female time-varying selectivity for S1-PS_DEL_VAST



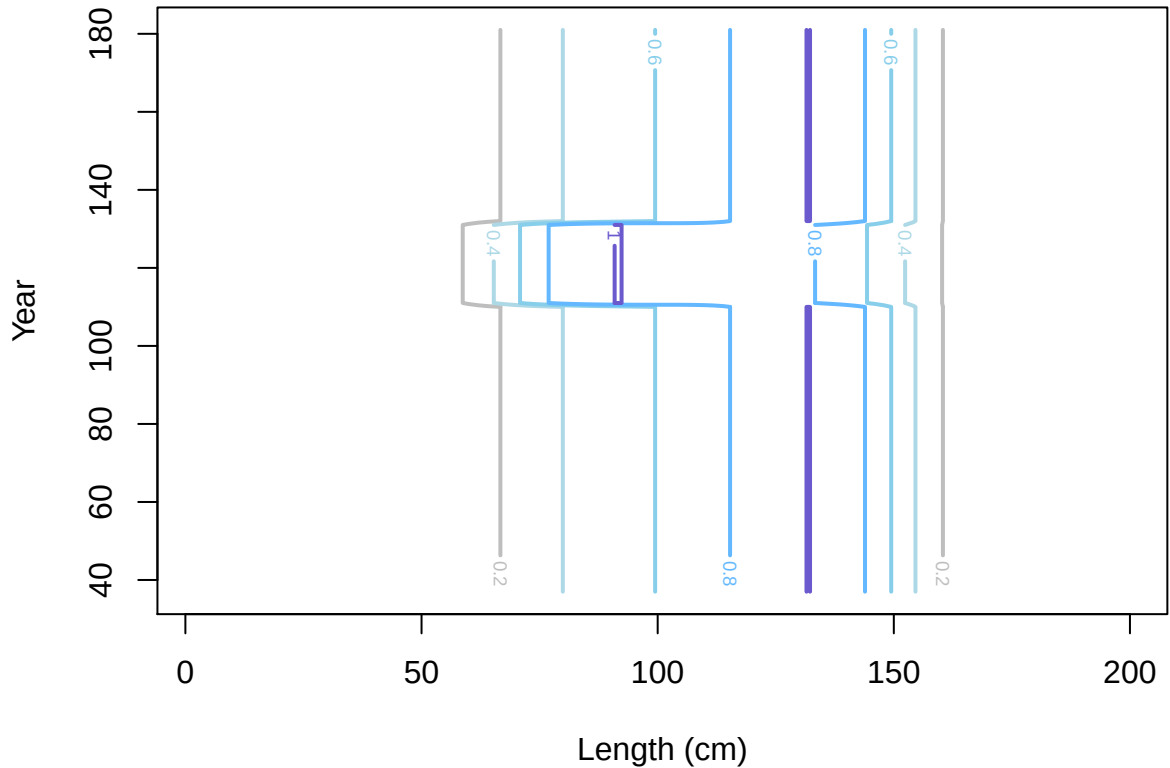
Female ending year selectivity for S1-PS_DEL_VAST



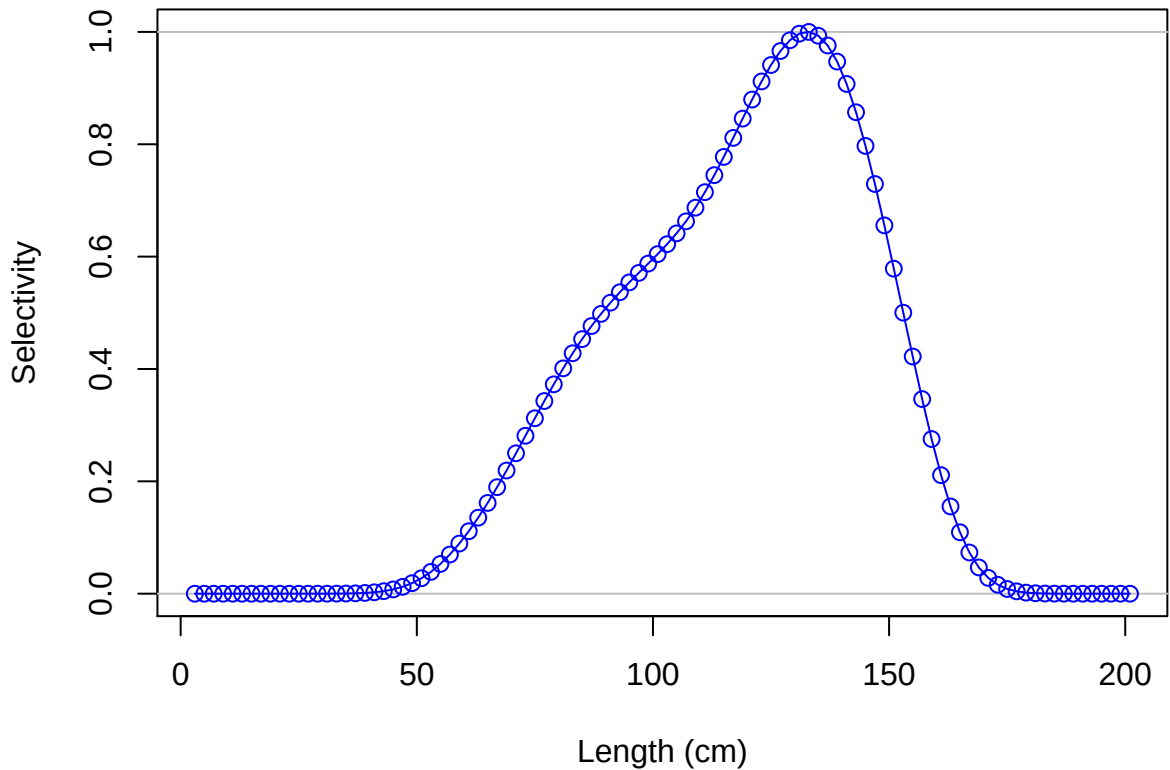
Male time-varying selectivity for S1-PS_DEL_VAST



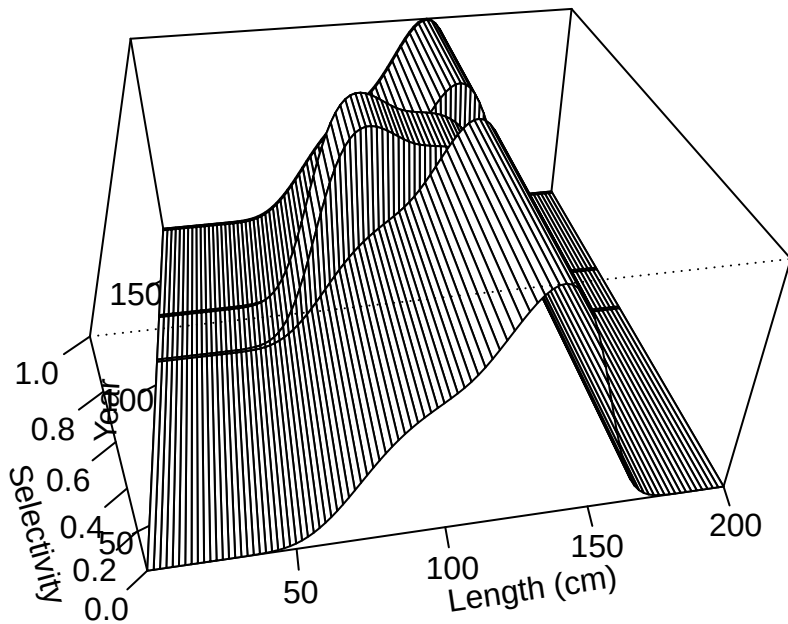
Male time-varying selectivity for S1-PS_DEL_VAST



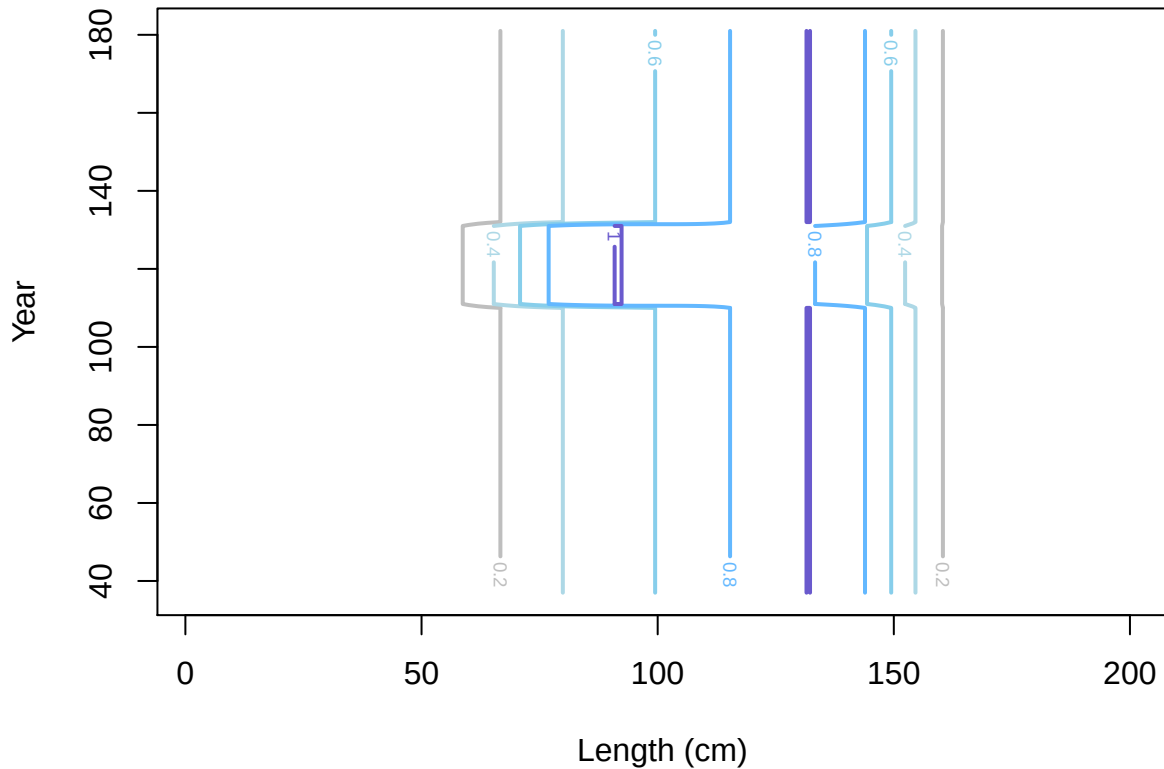
Male ending year selectivity for S1-PS_DEL_VAST



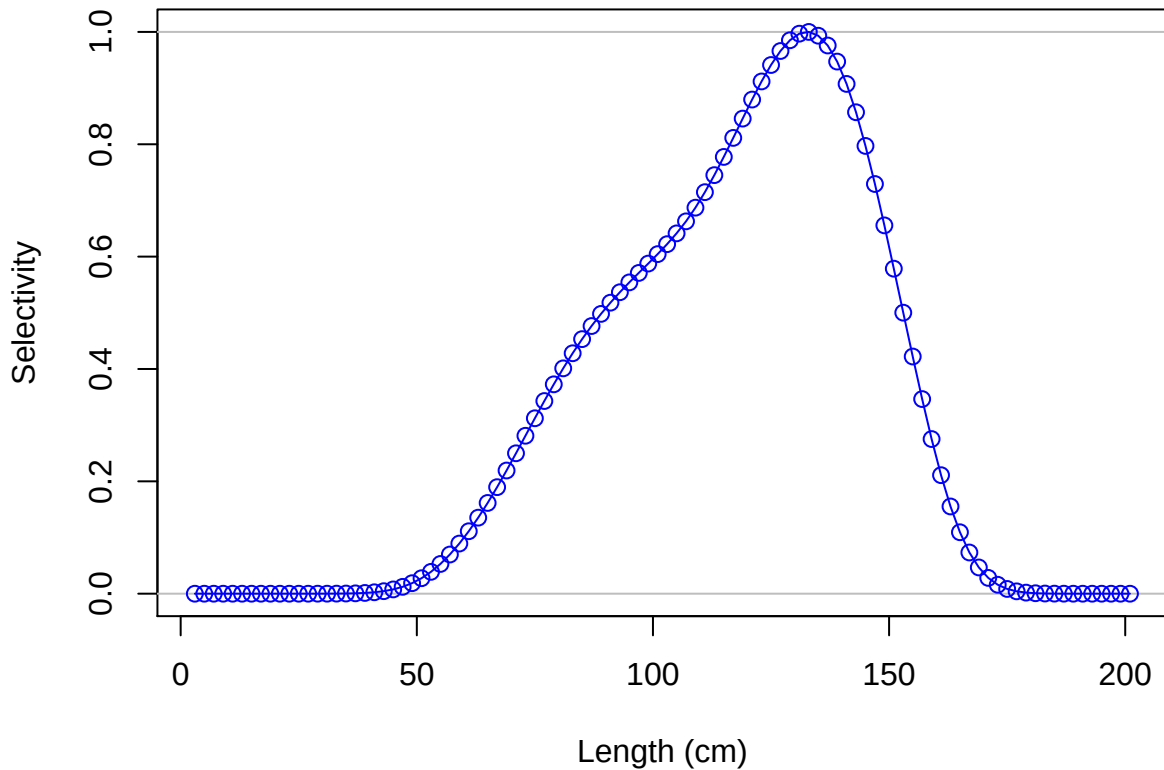
Female time-varying selectivity for S4-PS_middle_VAST



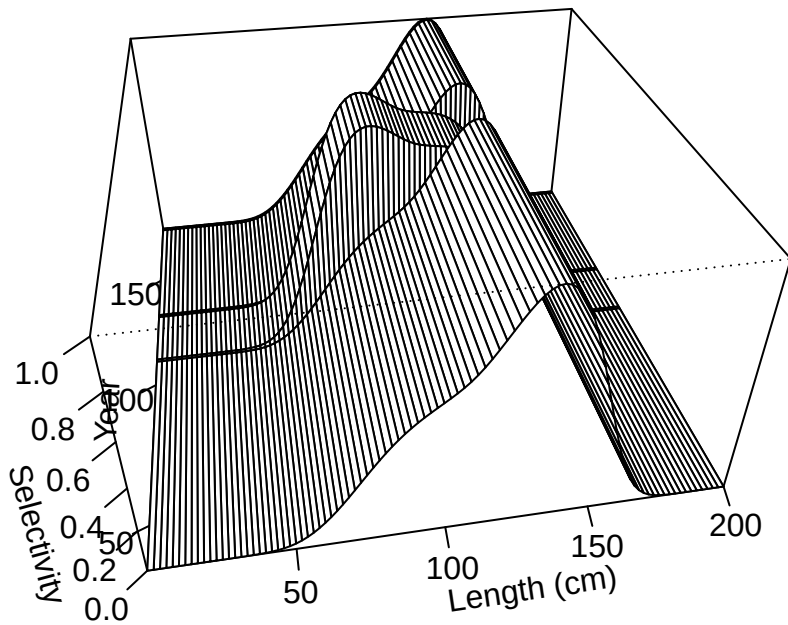
Female time-varying selectivity for S4-PS_middle_VAST



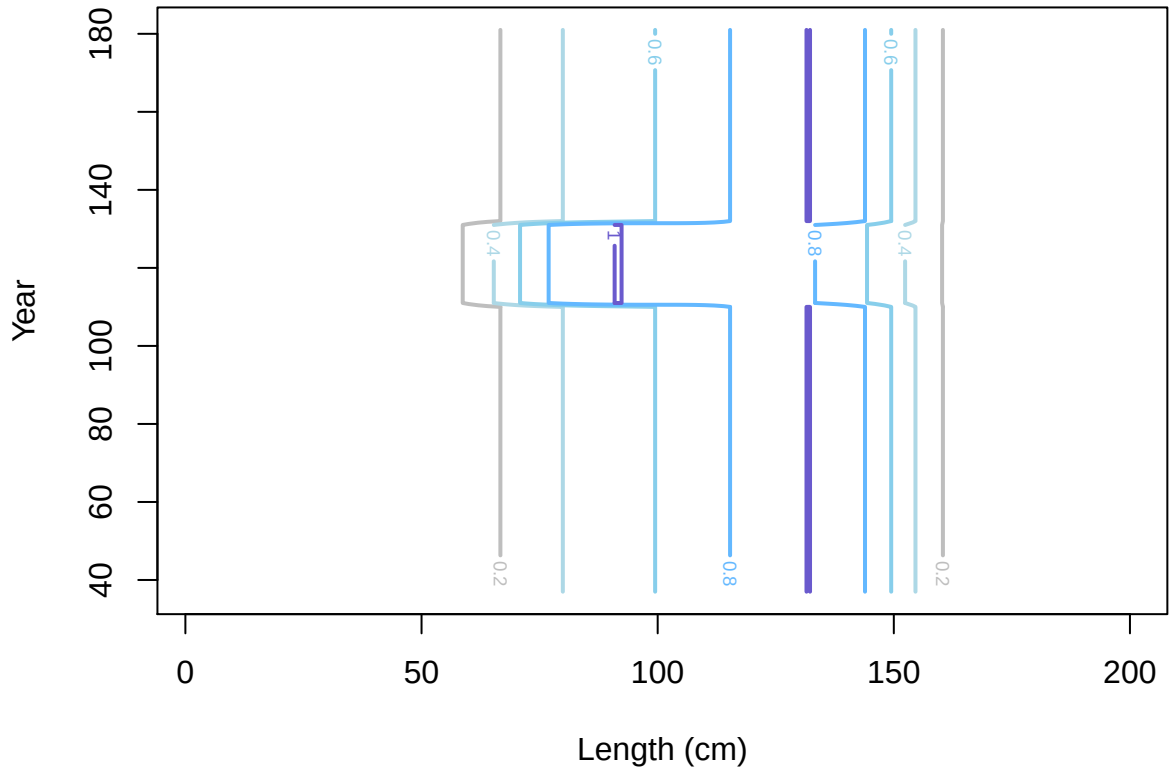
Female ending year selectivity for S4-PS_middle_VAST



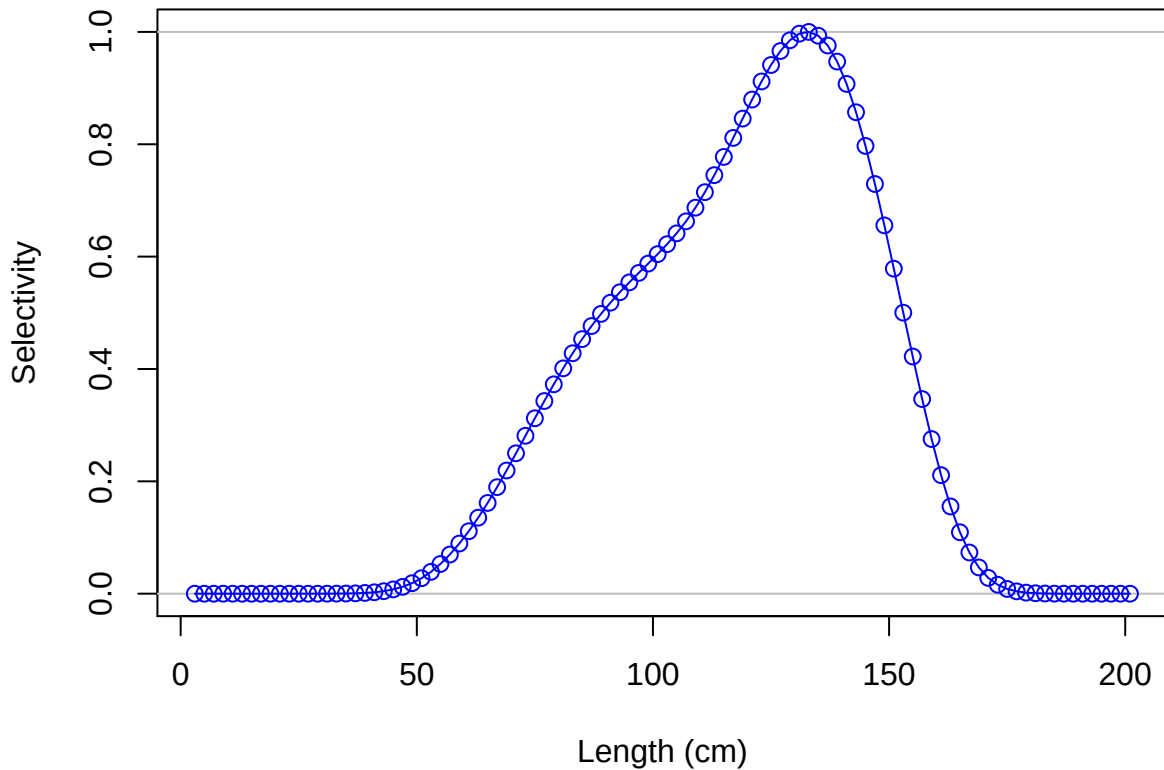
Male time-varying selectivity for S4-PS_middle_VAST



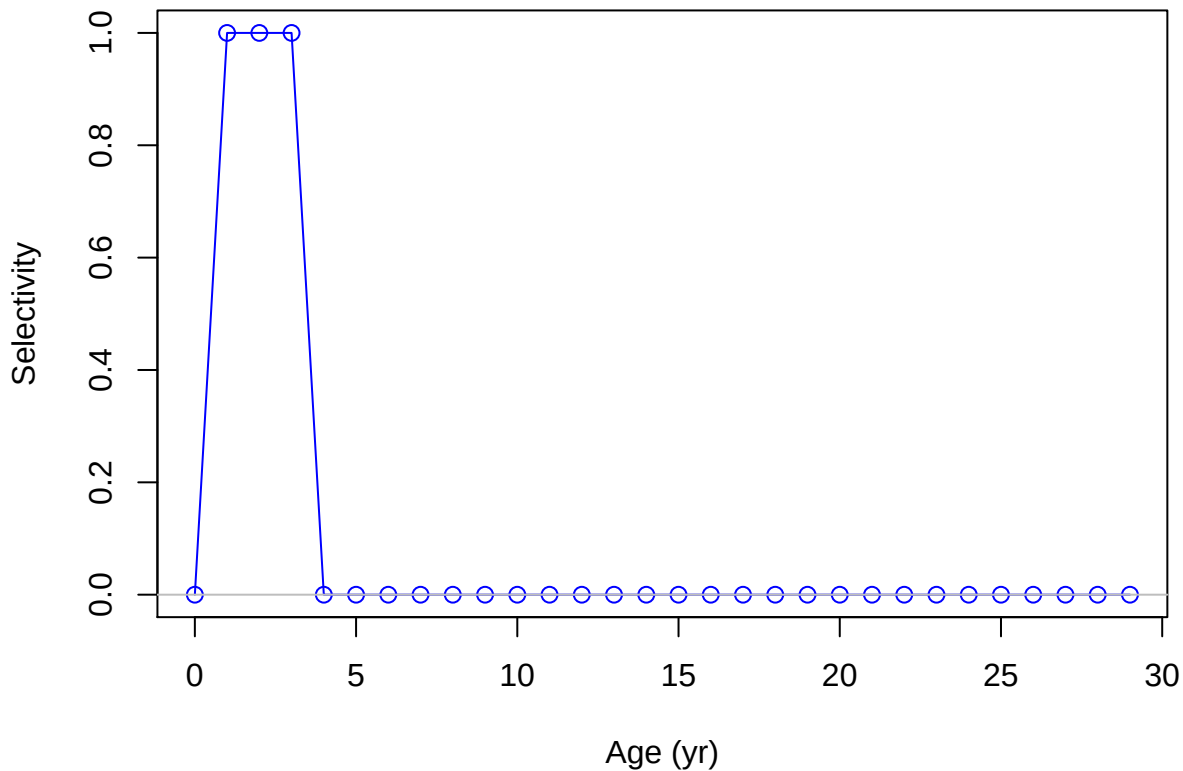
Male time-varying selectivity for S4-PS_middle_VAST



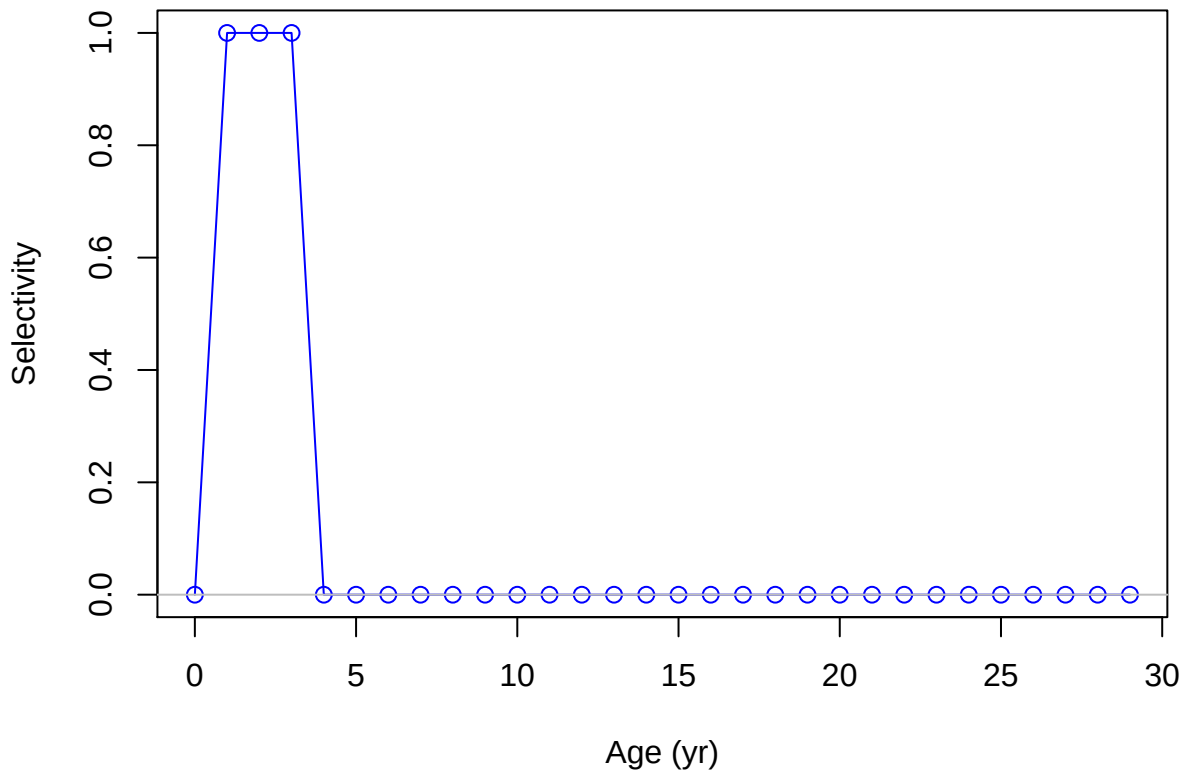
Male ending year selectivity for S4-PS_middle_VAST



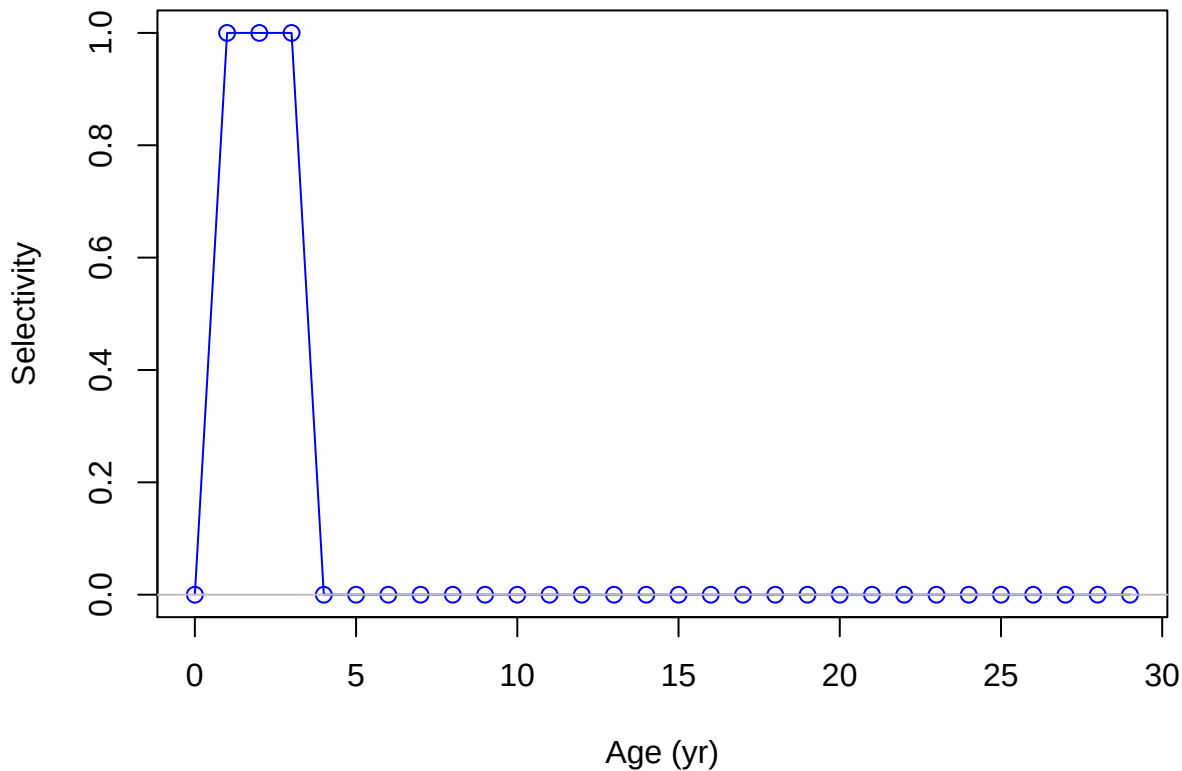
Female ending year selectivity for F25-OBJ_S_disc



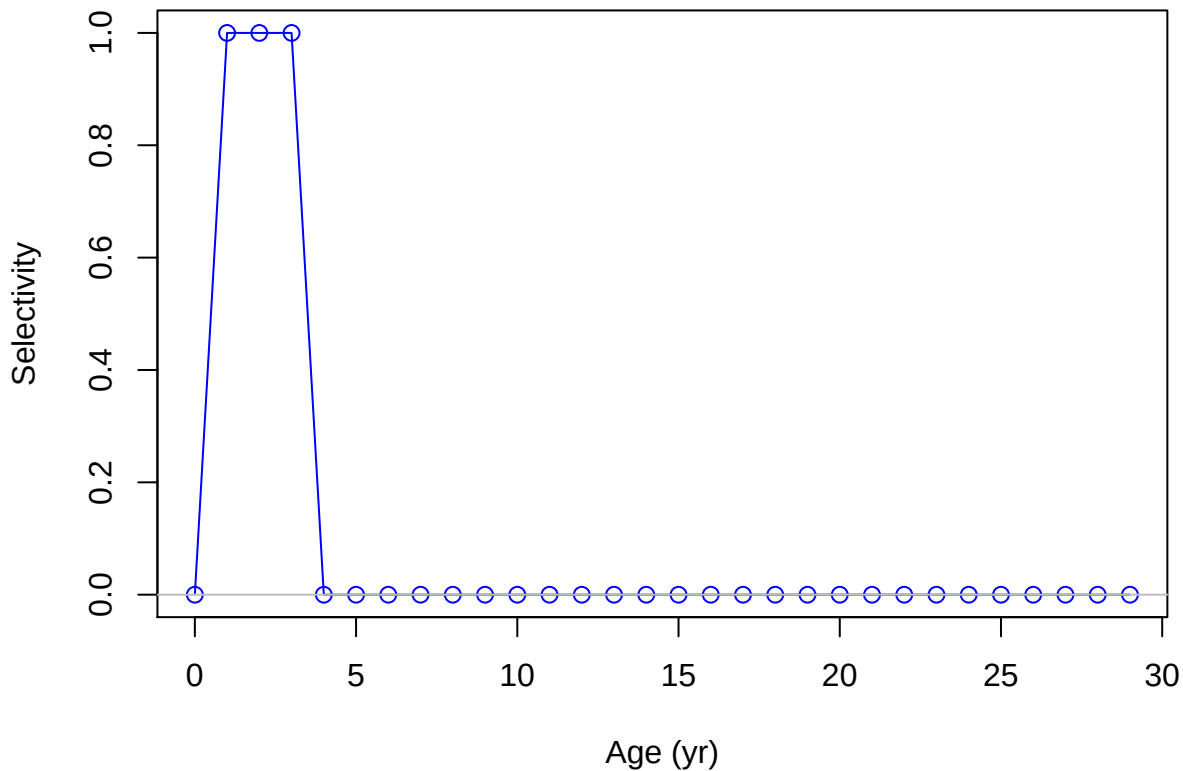
Male ending year selectivity for F25-OBJ_S_disc



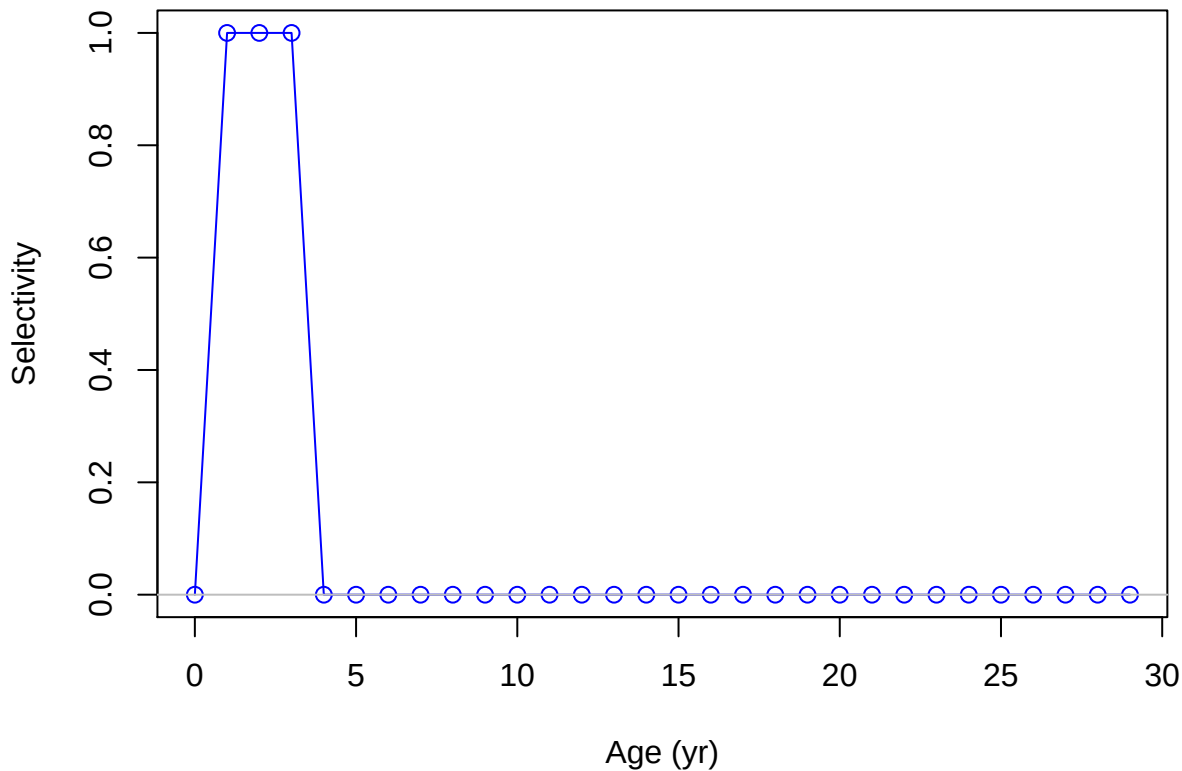
Female ending year selectivity for F26-OBJ_C_disc



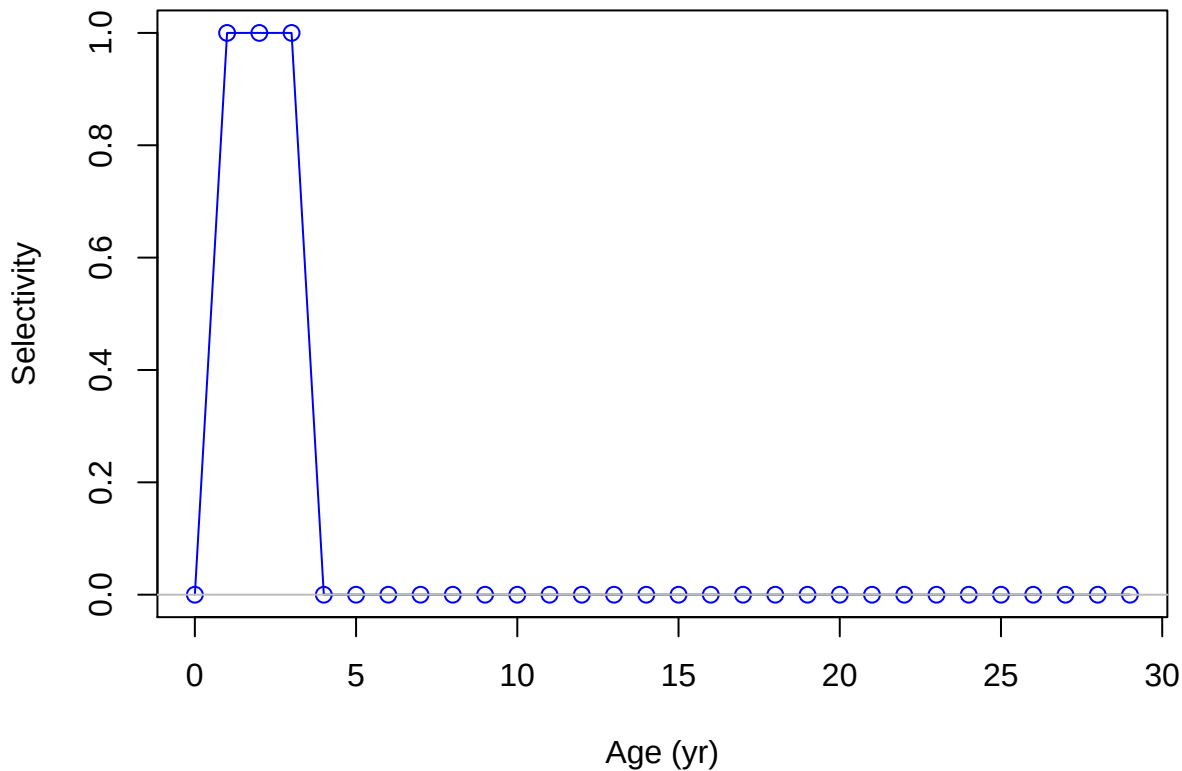
Male ending year selectivity for F26-OBJ_C_disc



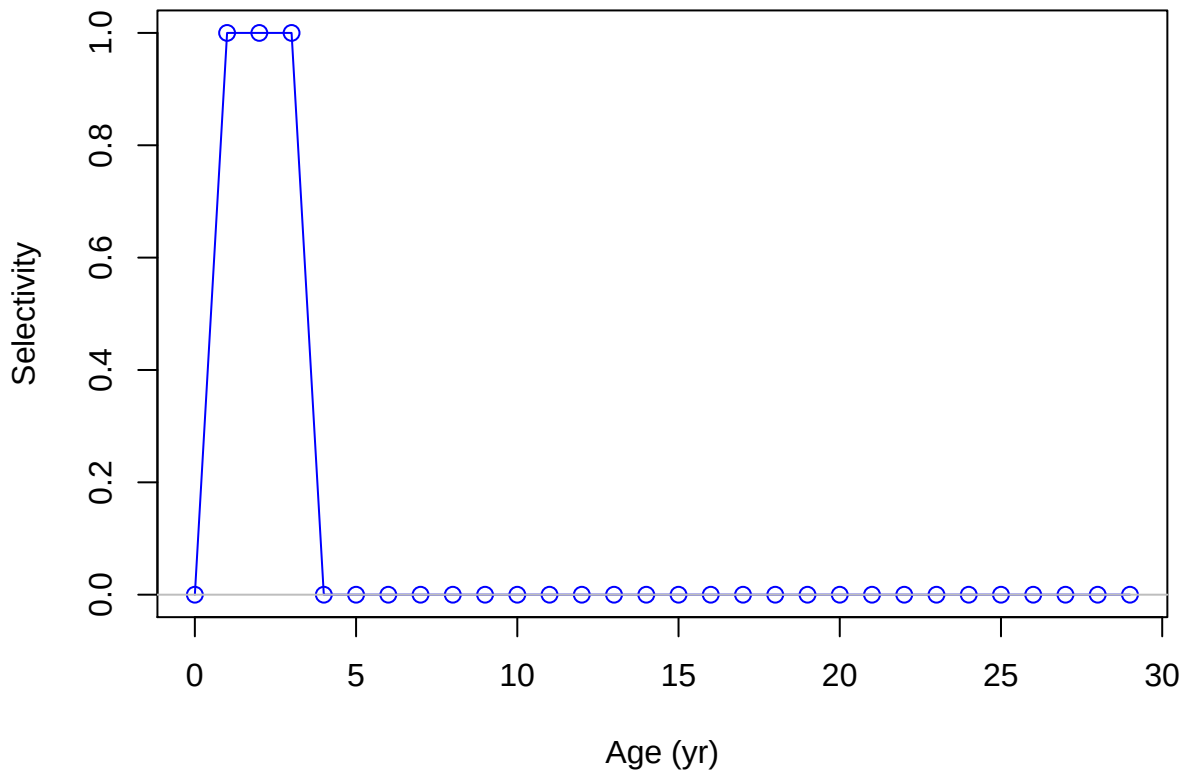
Female ending year selectivity for F27-OBJ_I_disc



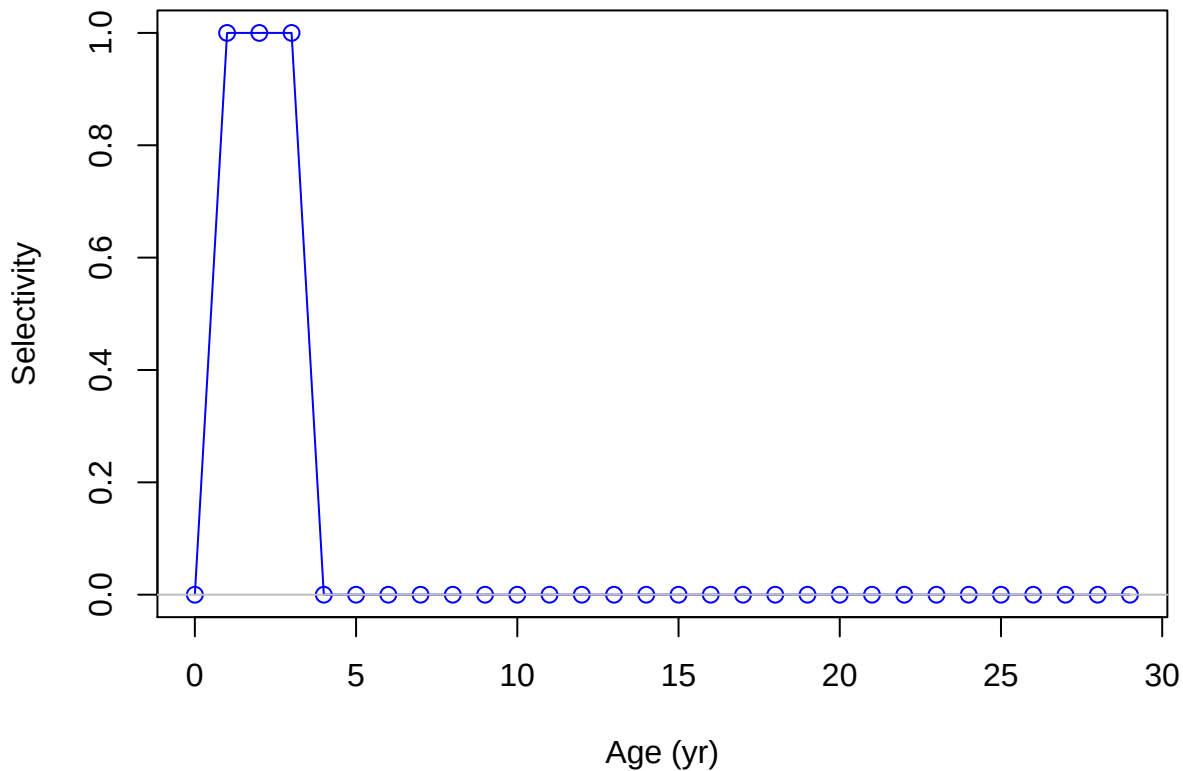
Male ending year selectivity for F27-OBJ_I_disc



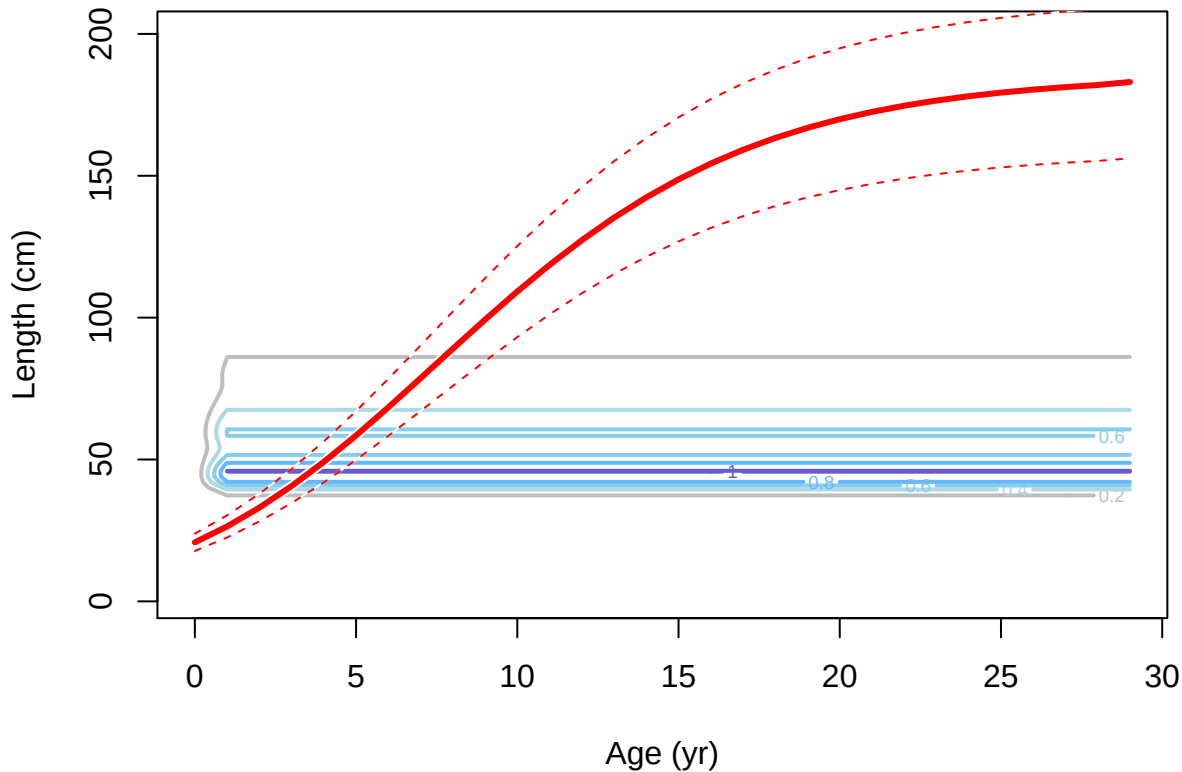
Female ending year selectivity for F28-OBJ_N_disc



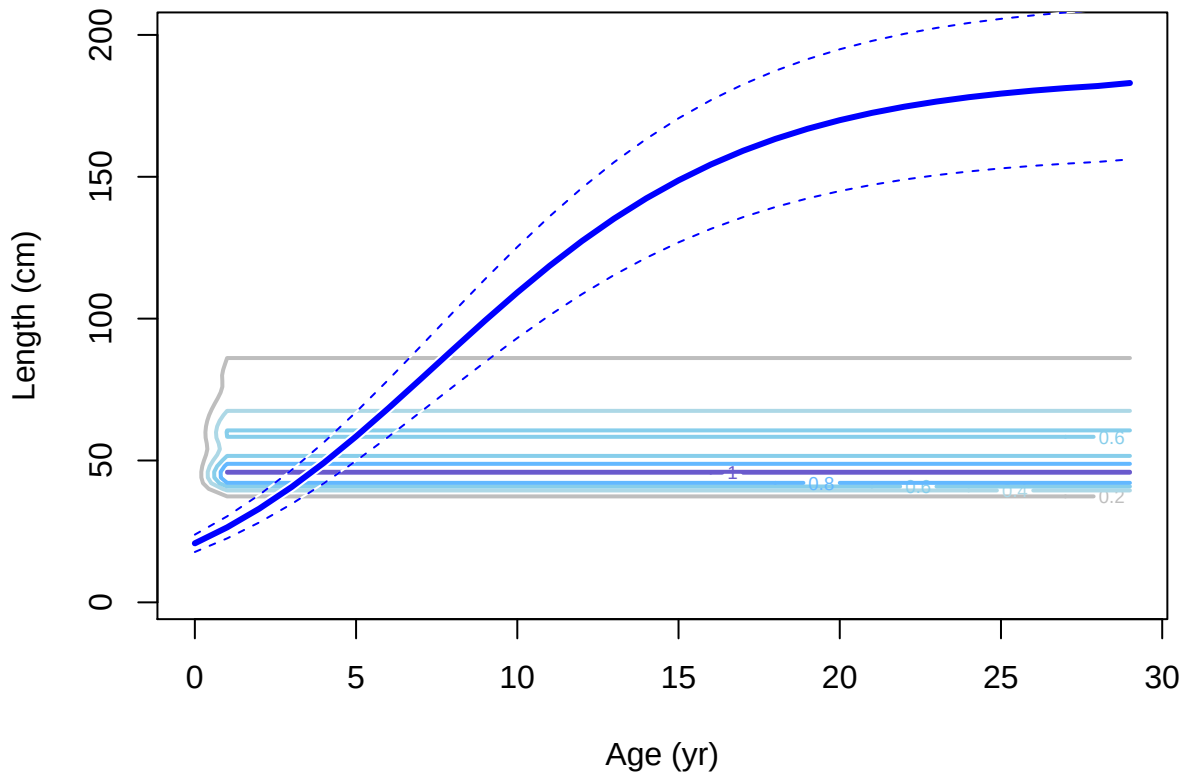
Male ending year selectivity for F28-OBJ_N_disc



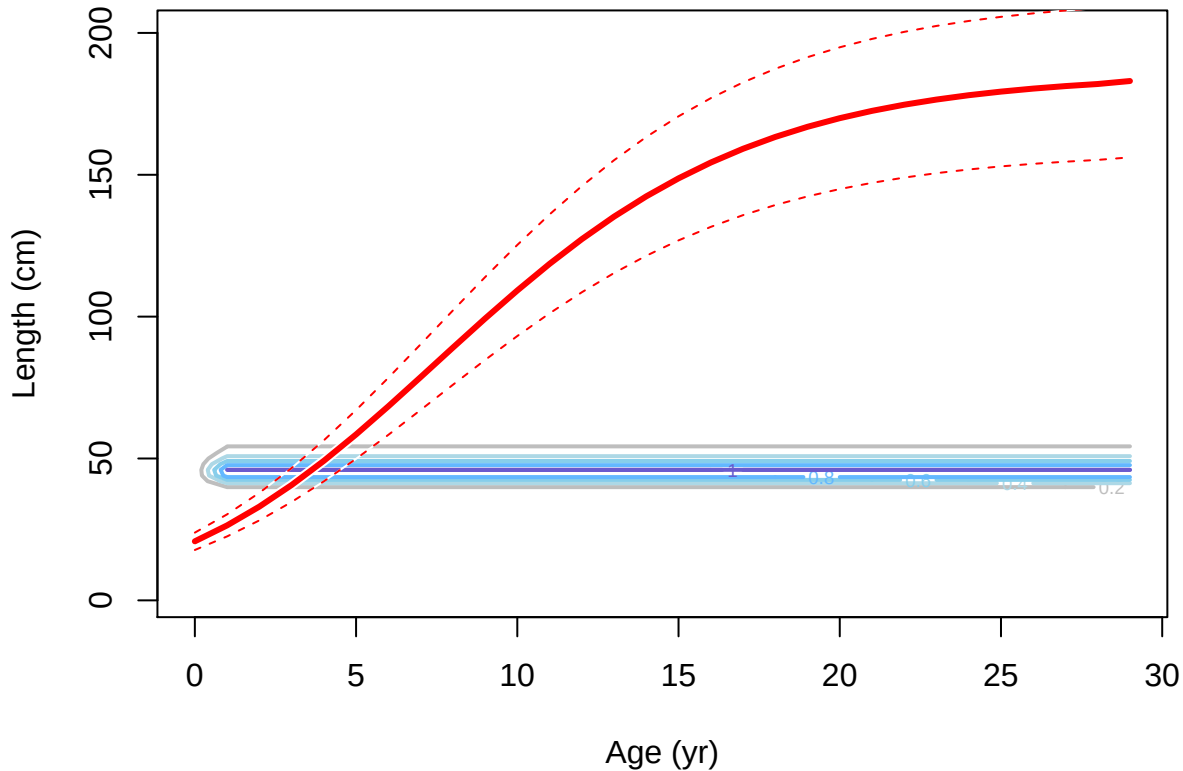
Female ending year selectivity and growth for F1-OBJ_N-Q14



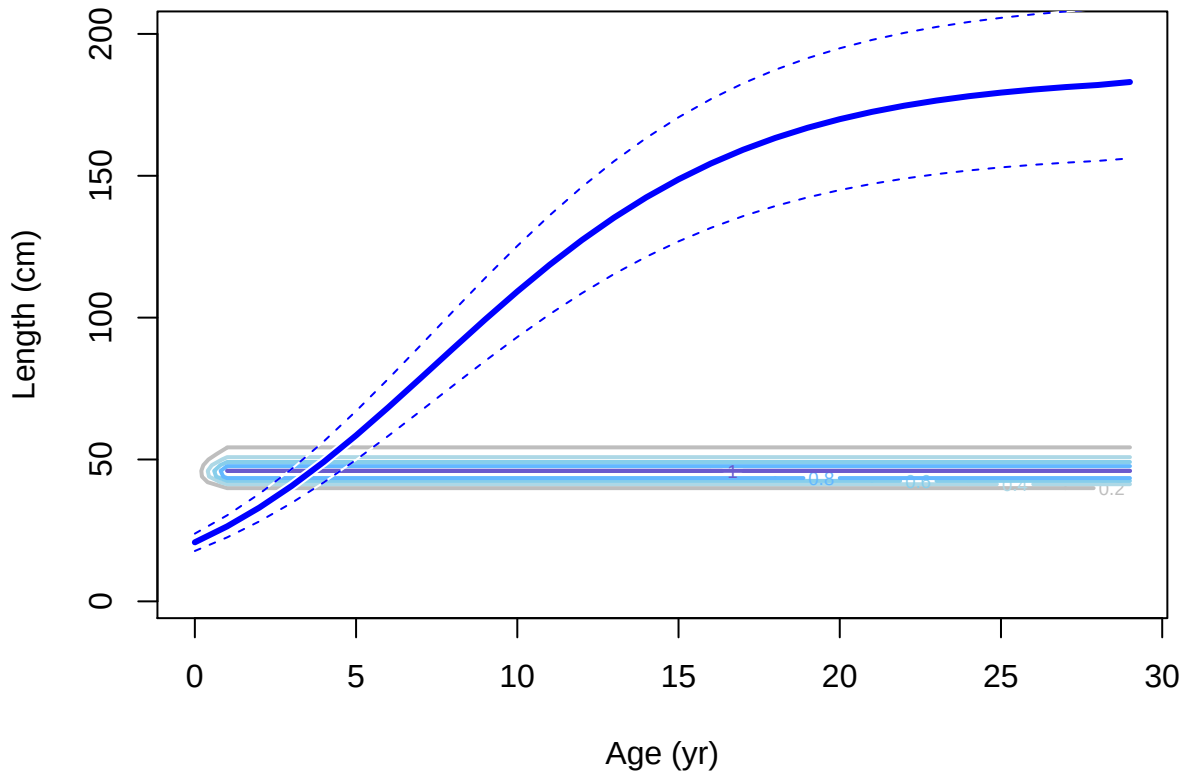
Male ending year selectivity and growth for F1-OBJ_N-Q14



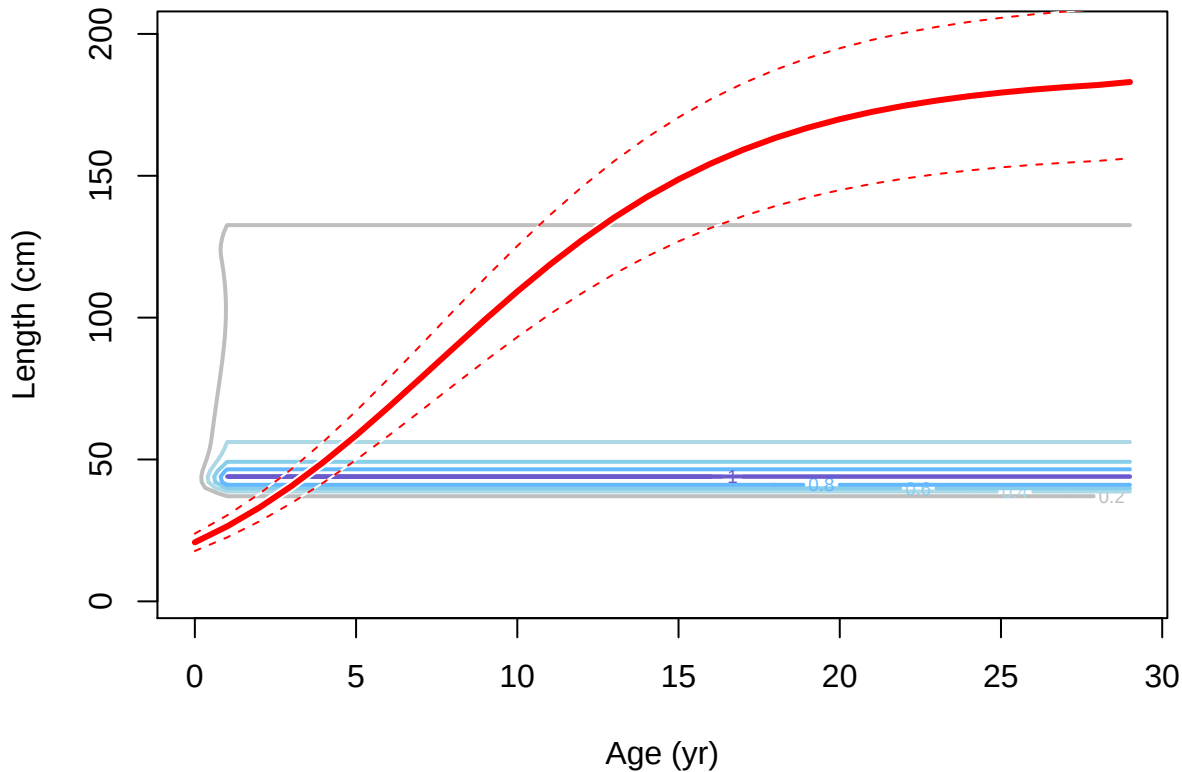
Female ending year selectivity and growth for F2-OBJ_Nc_Q14



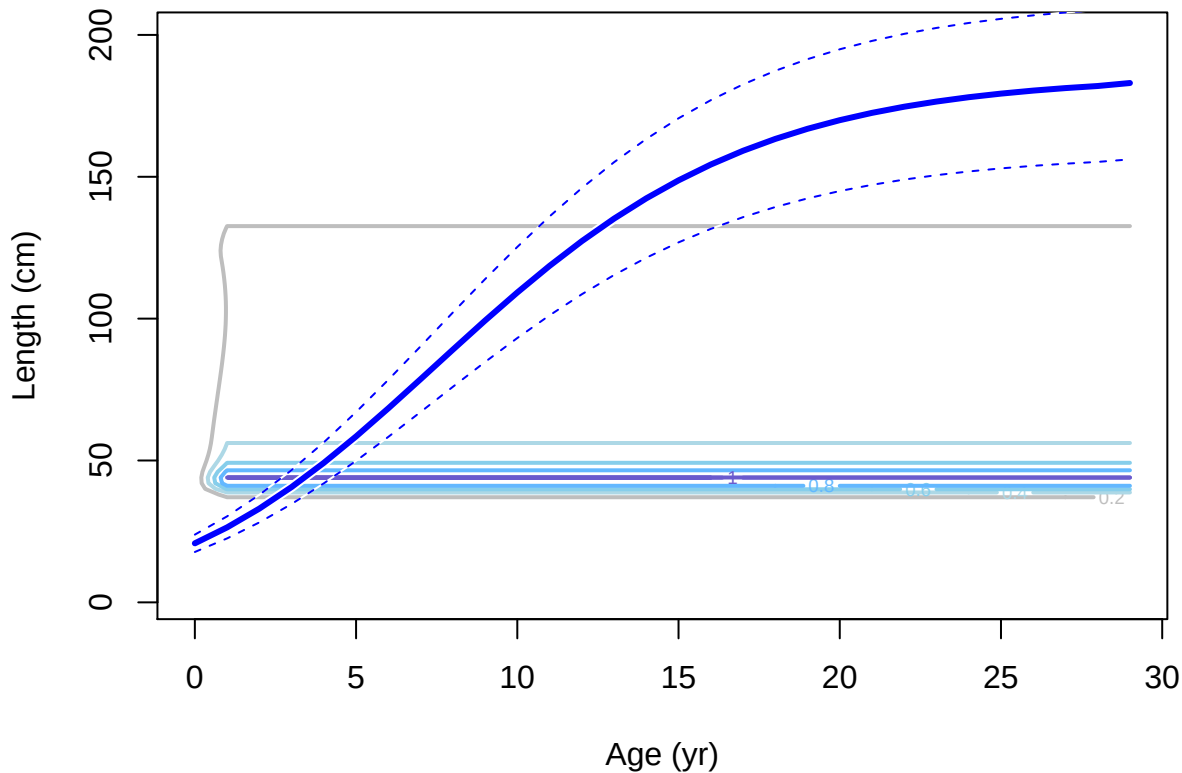
Male ending year selectivity and growth for F2-OBJ_Nc_Q14



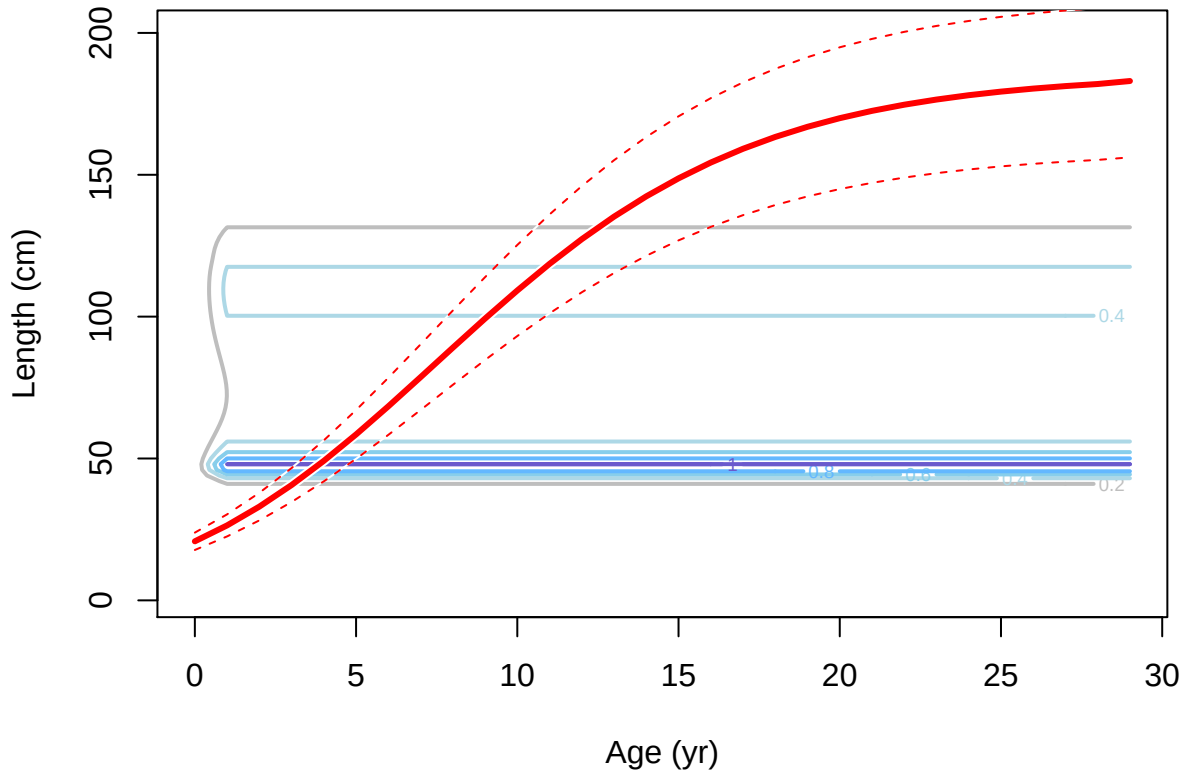
Female ending year selectivity and growth for F3-OBJ_C_Q14



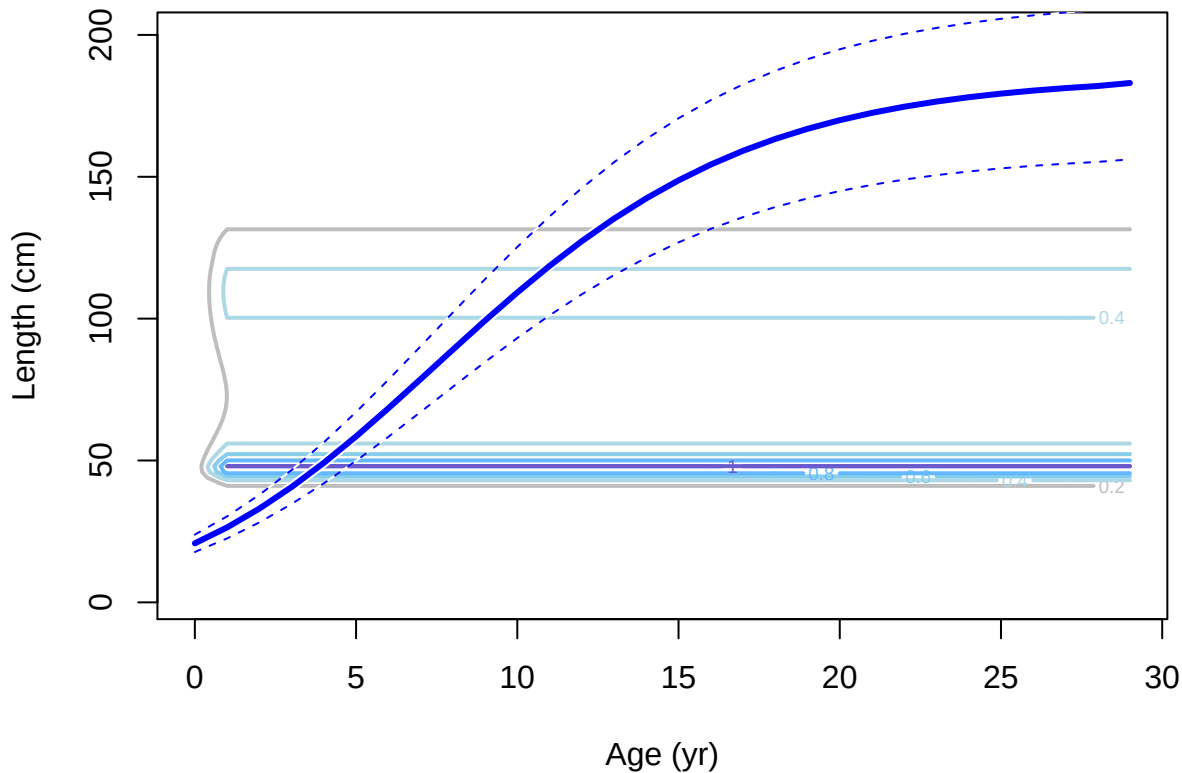
Male ending year selectivity and growth for F3-OBJ_C_Q14



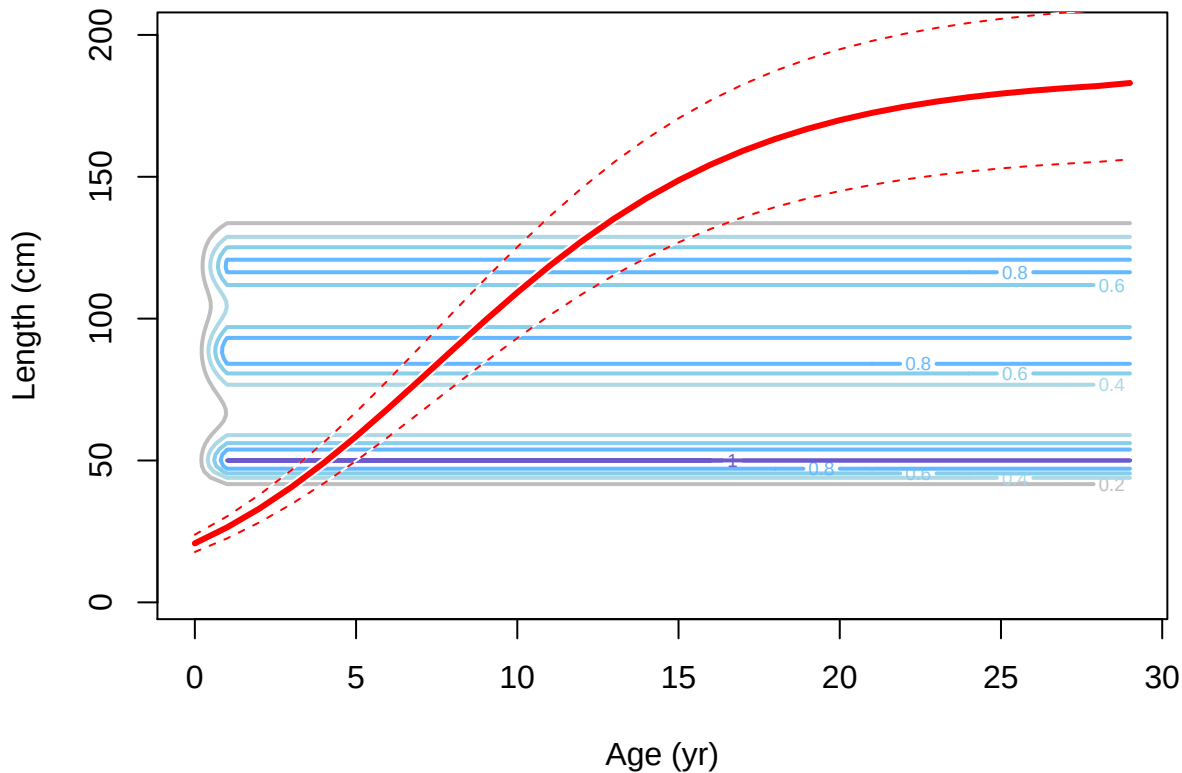
Female ending year selectivity and growth for F4-OBJ_Cc_Q14



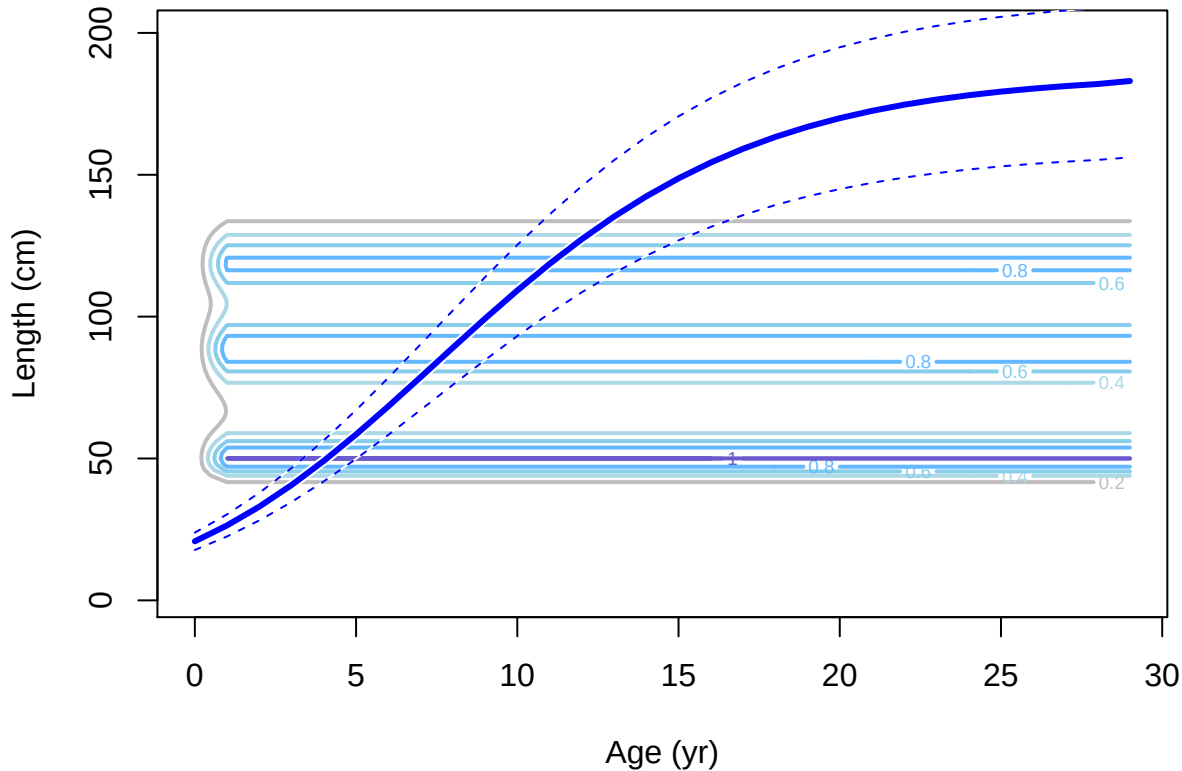
Male ending year selectivity and growth for F4-OBJ_Cc_Q14



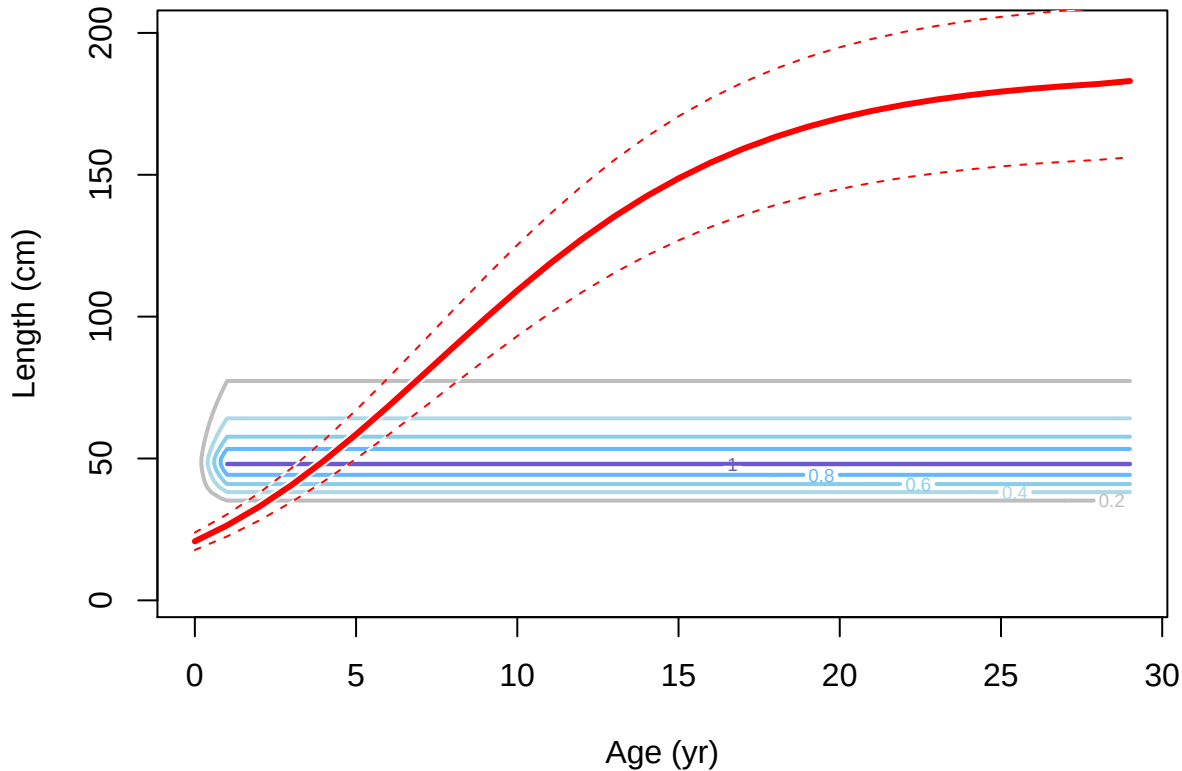
Female ending year selectivity and growth for F5-OBJ_S_Q14



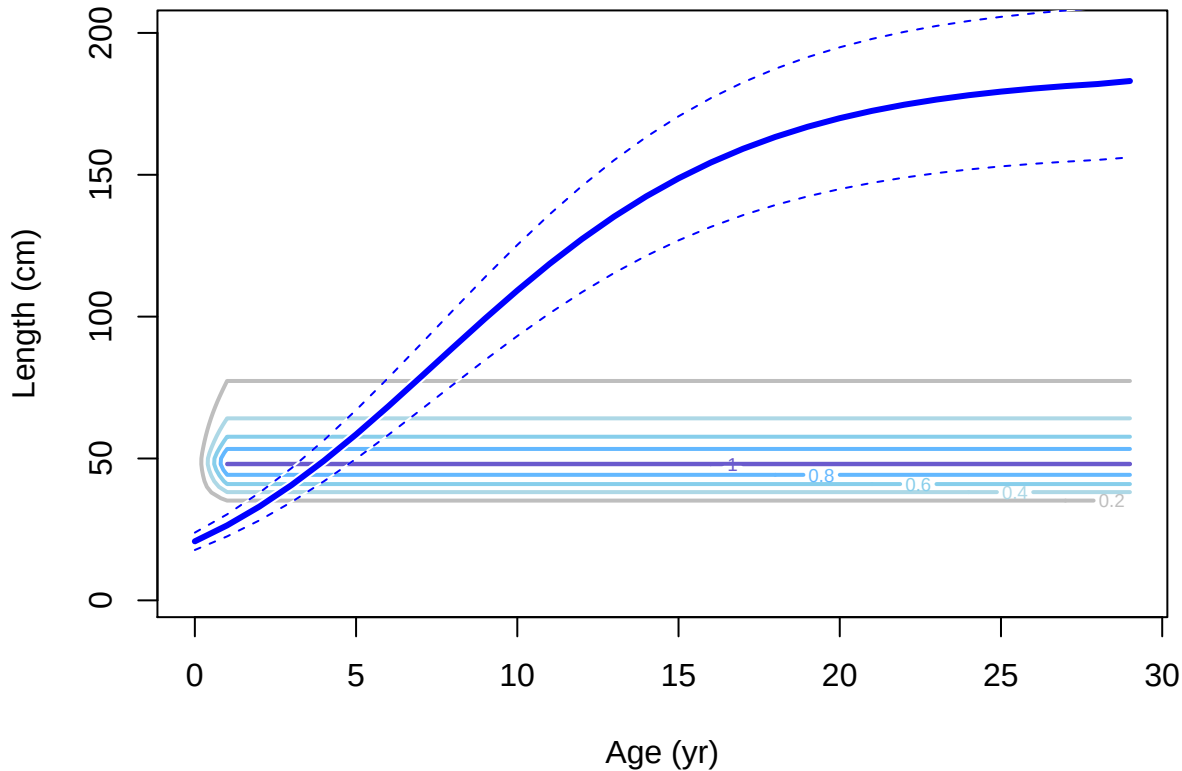
Male ending year selectivity and growth for F5-OBJ_S_Q14



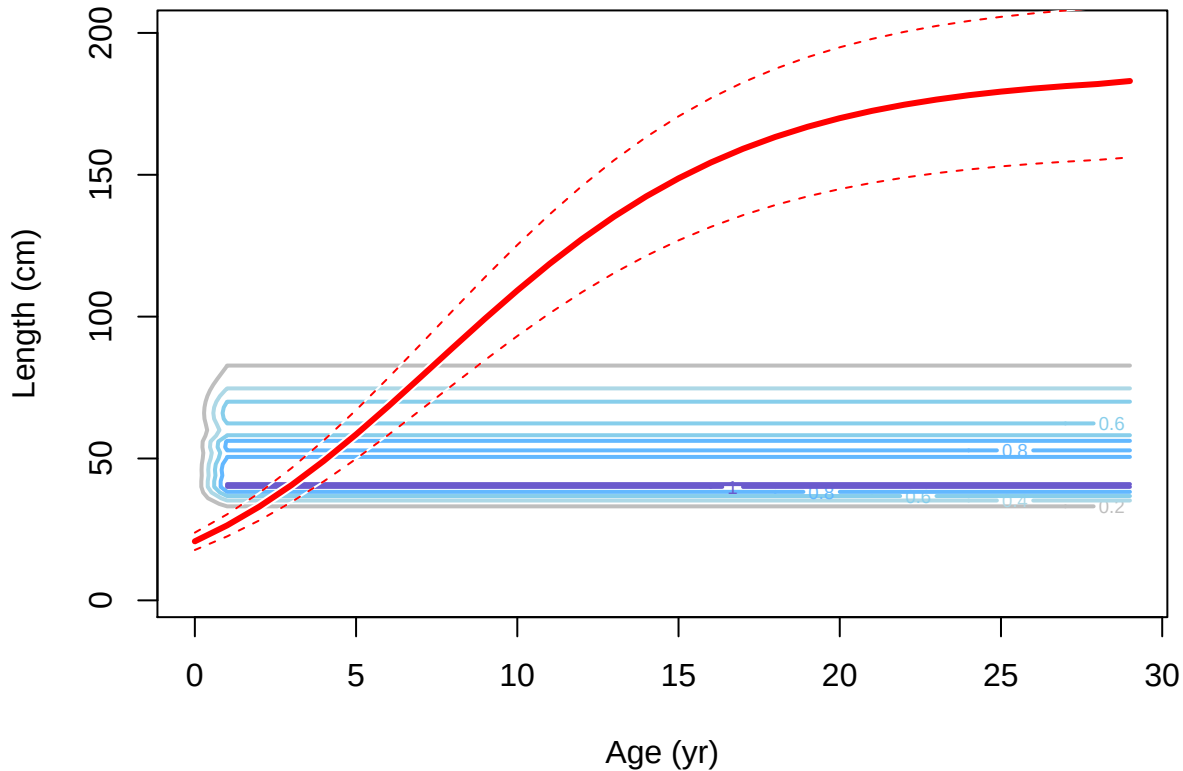
Female ending year selectivity and growth for F6-OBJ_N_Q23



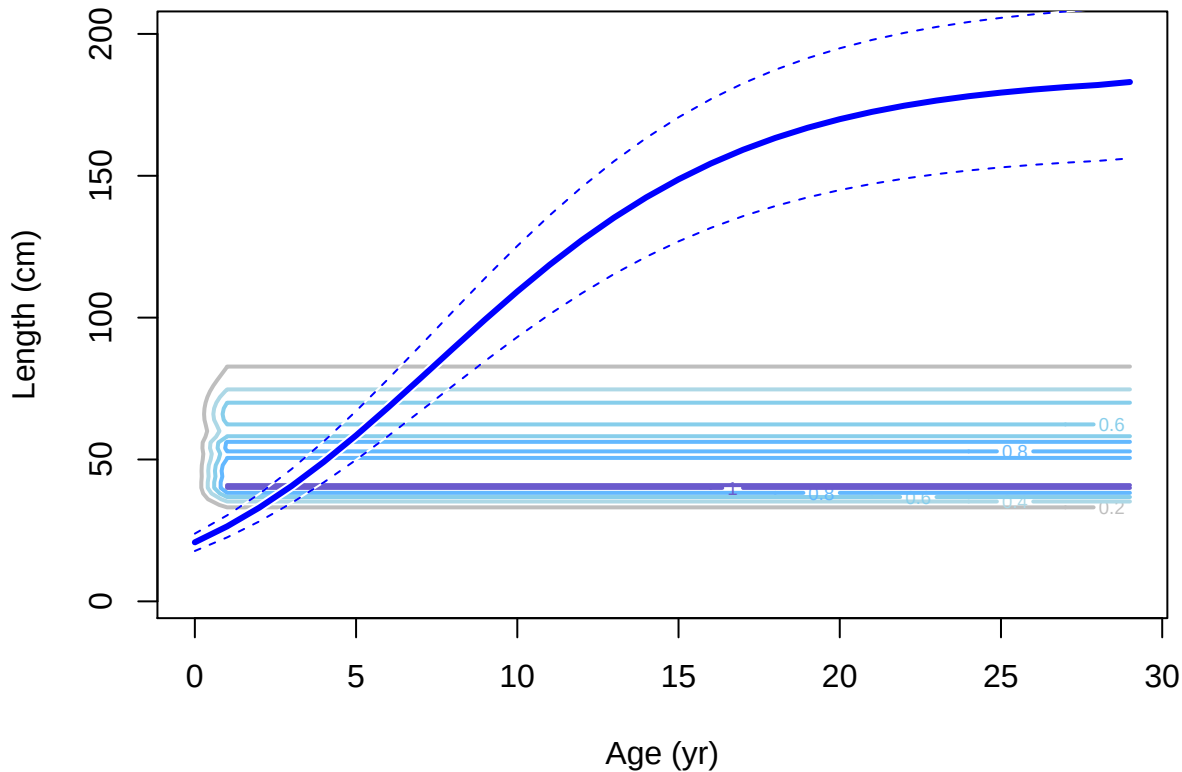
Male ending year selectivity and growth for F6-OBJ_N_Q23



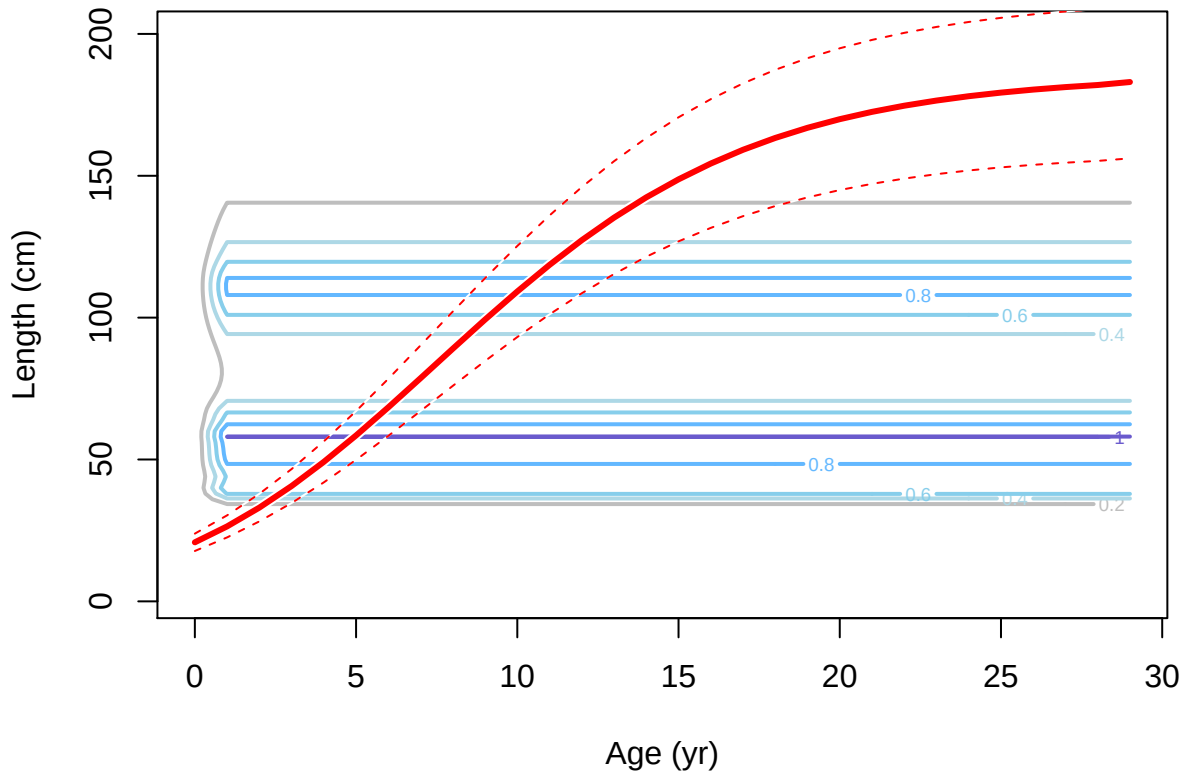
Female ending year selectivity and growth for F7-OBJ_Nc_Q23



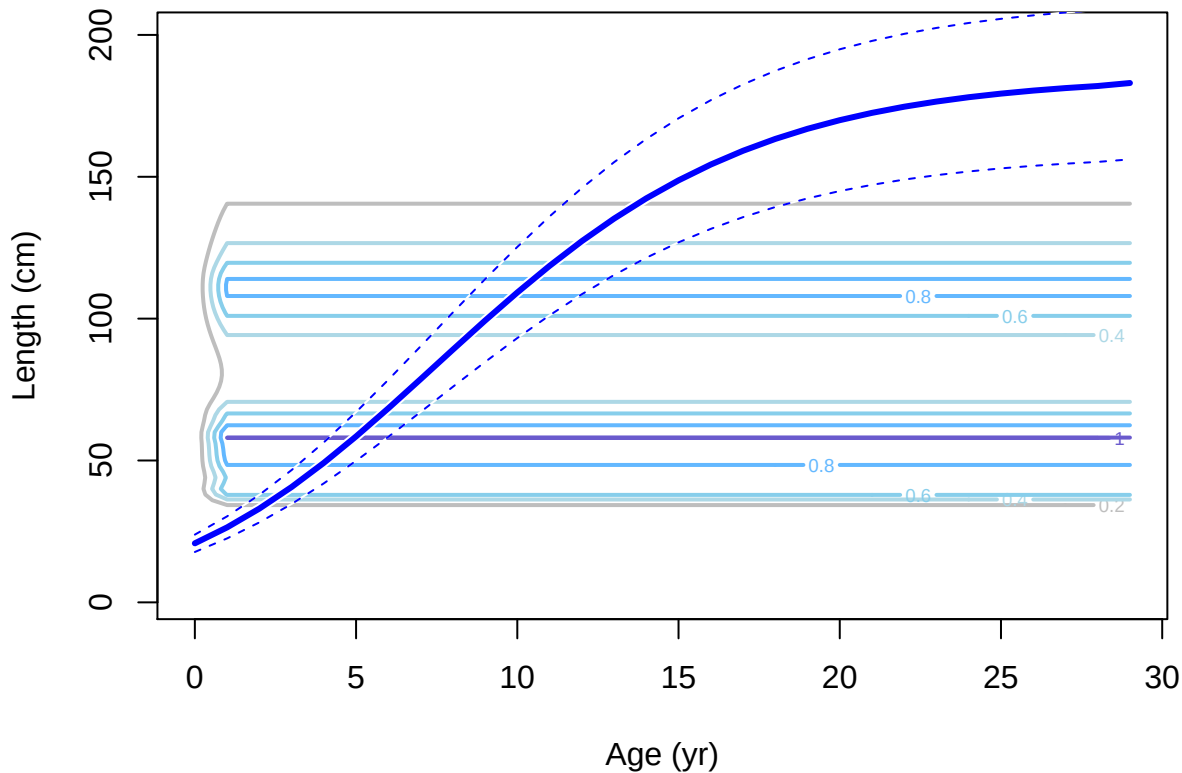
Male ending year selectivity and growth for F7-OBJ_Nc_Q23



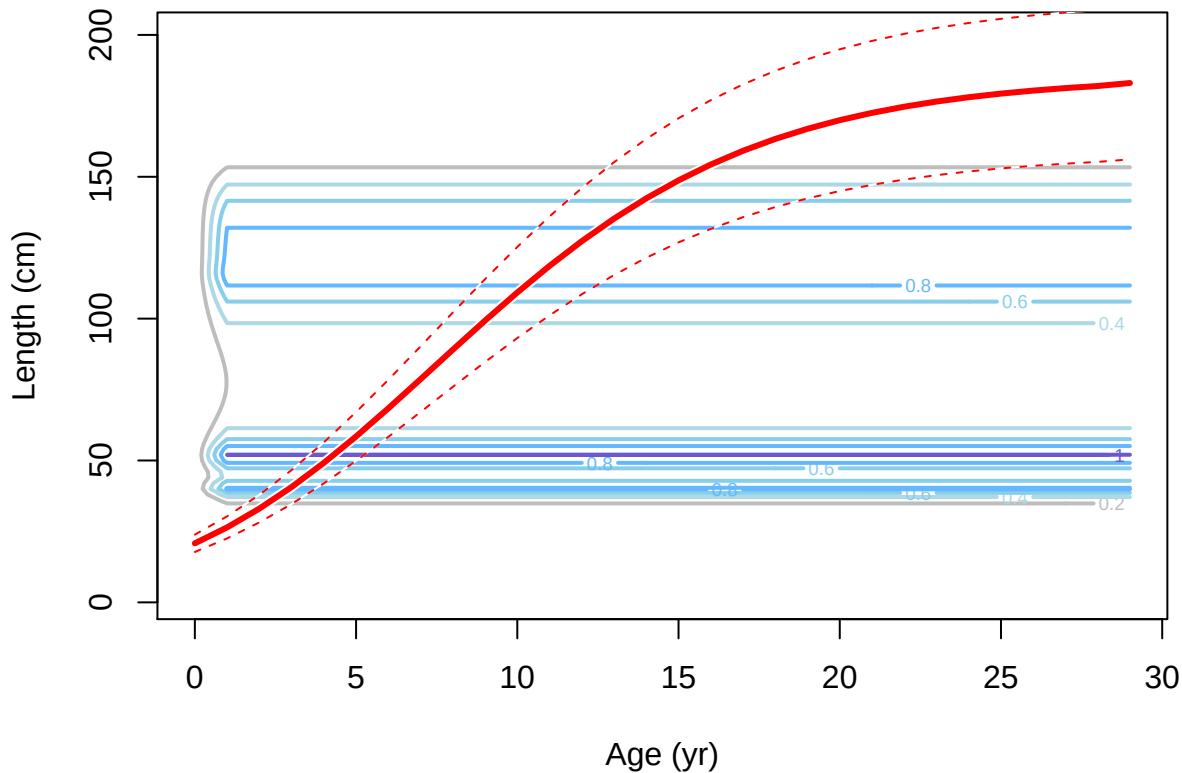
Female ending year selectivity and growth for F8-OBJ_C_Q23



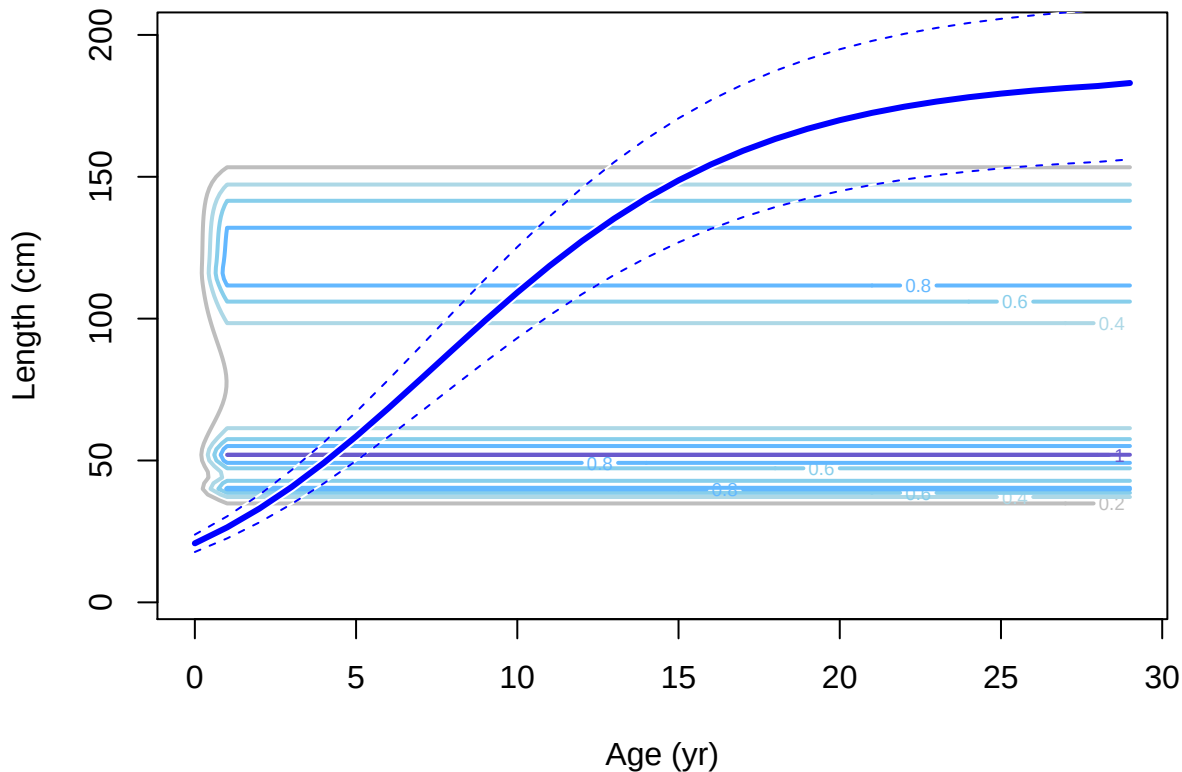
Male ending year selectivity and growth for F8-OBJ_C_Q23



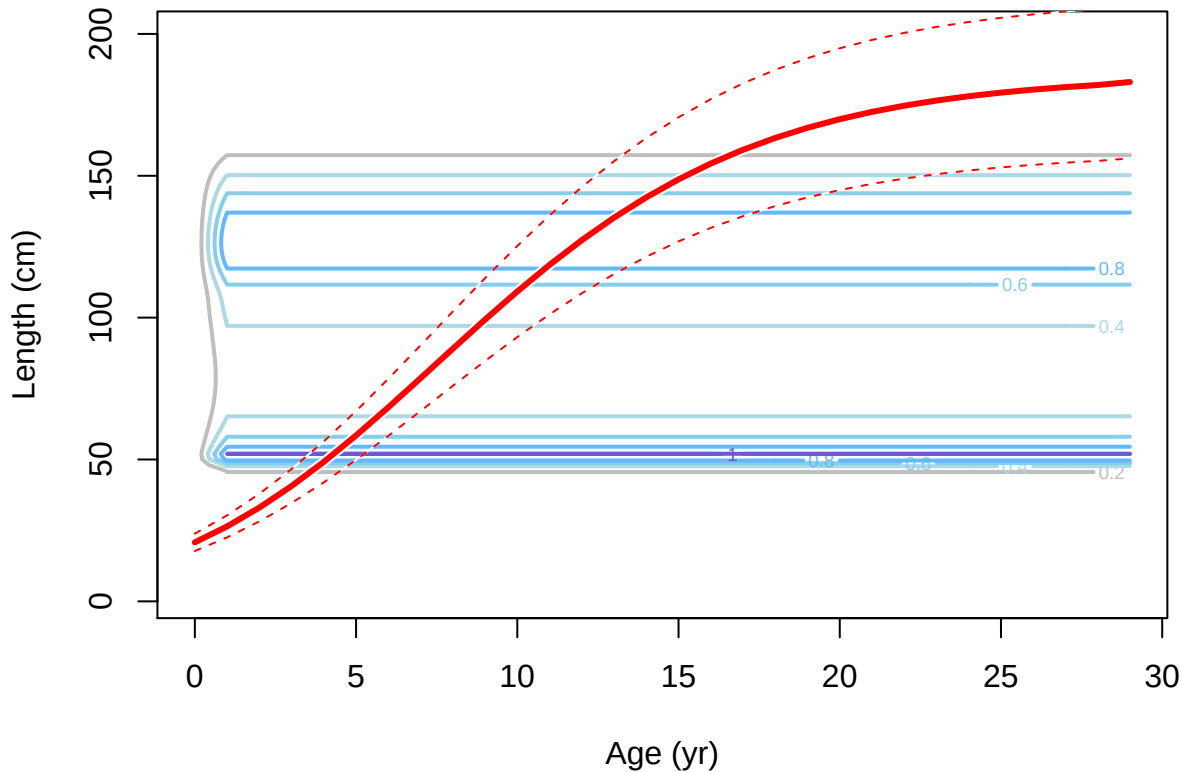
Female ending year selectivity and growth for F9-OBJ_Cc_Q23



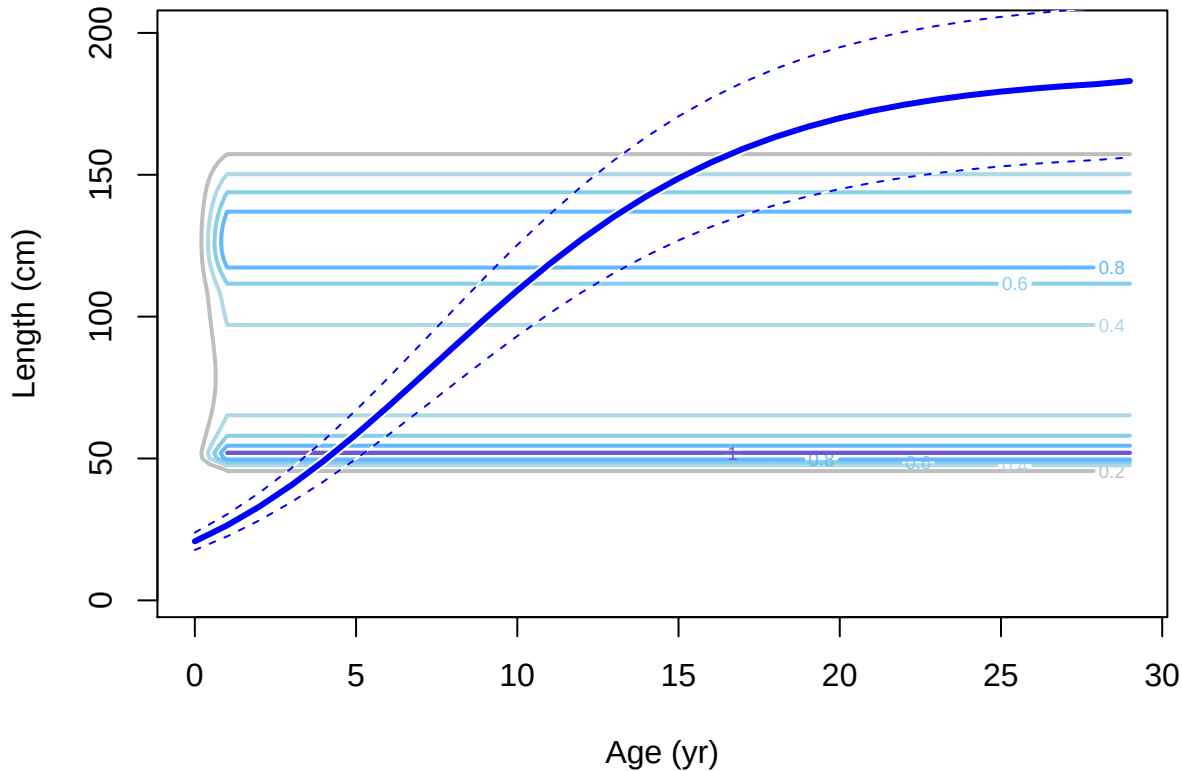
Male ending year selectivity and growth for F9-OBJ_Cc_Q23



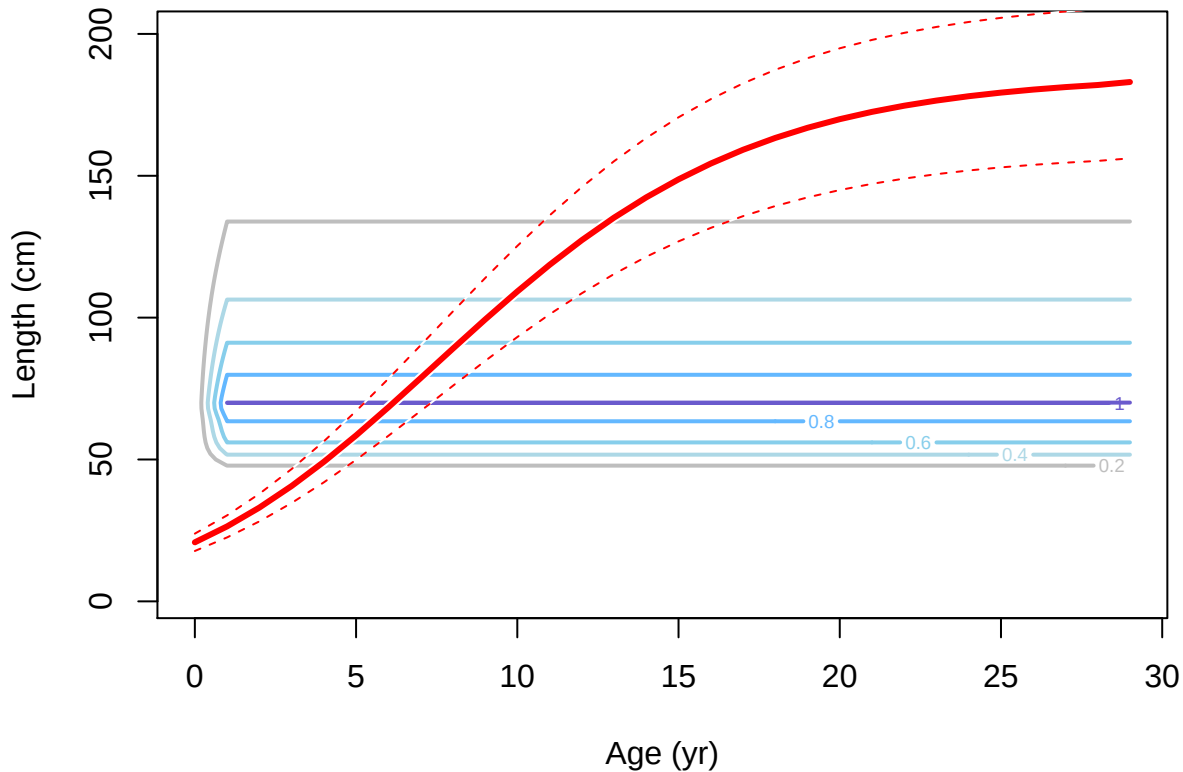
Female ending year selectivity and growth for F10-OBJ_S_Q23



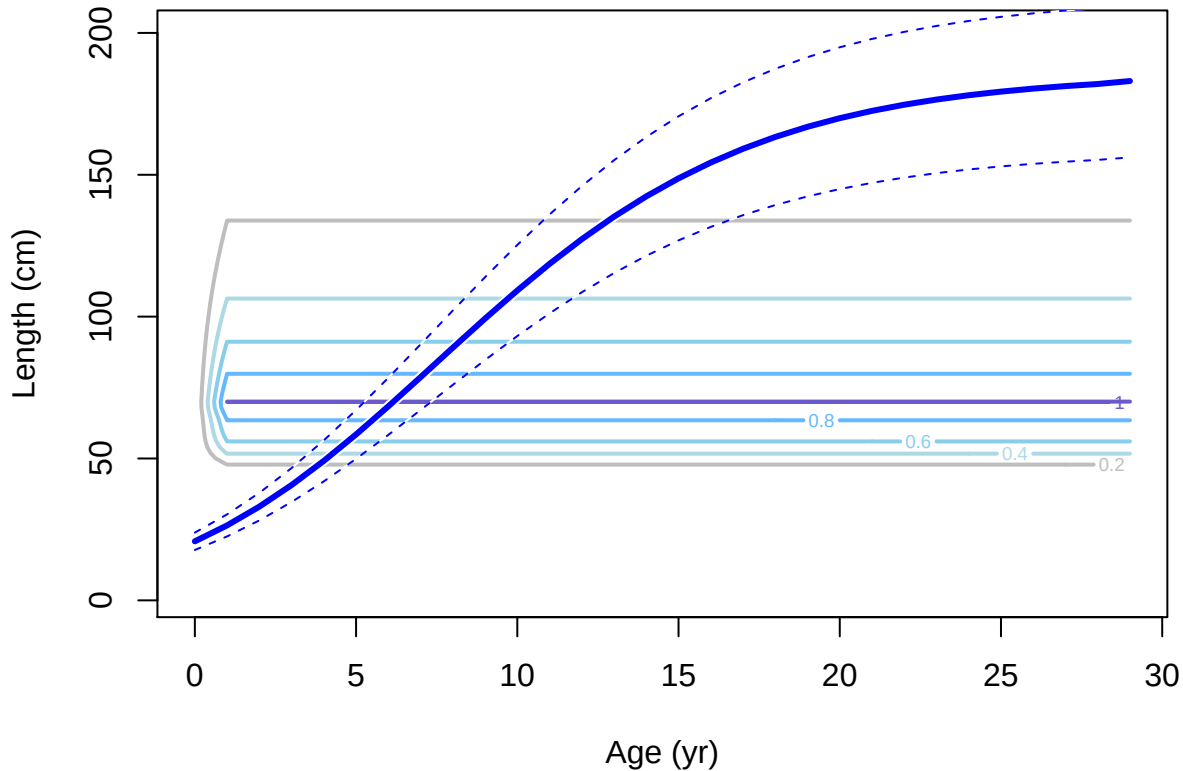
Male ending year selectivity and growth for F10-OBJ_S_Q23



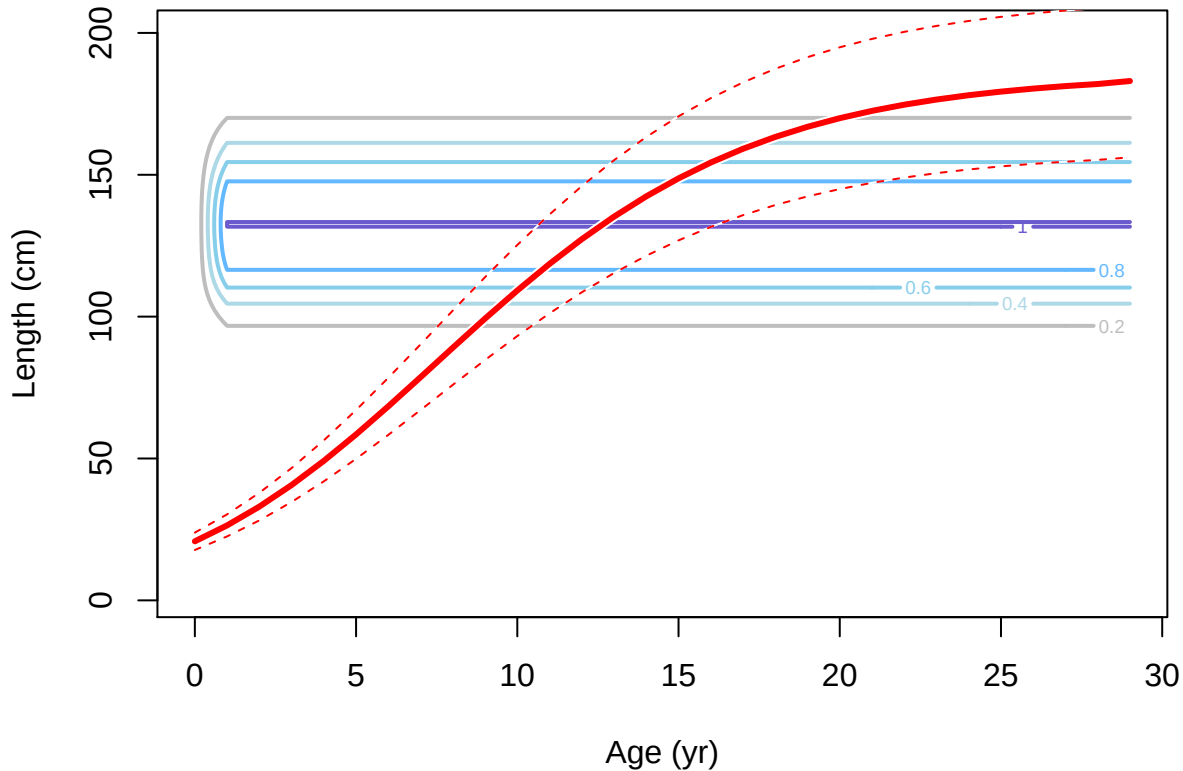
Female ending year selectivity and growth for F11-NOA_N



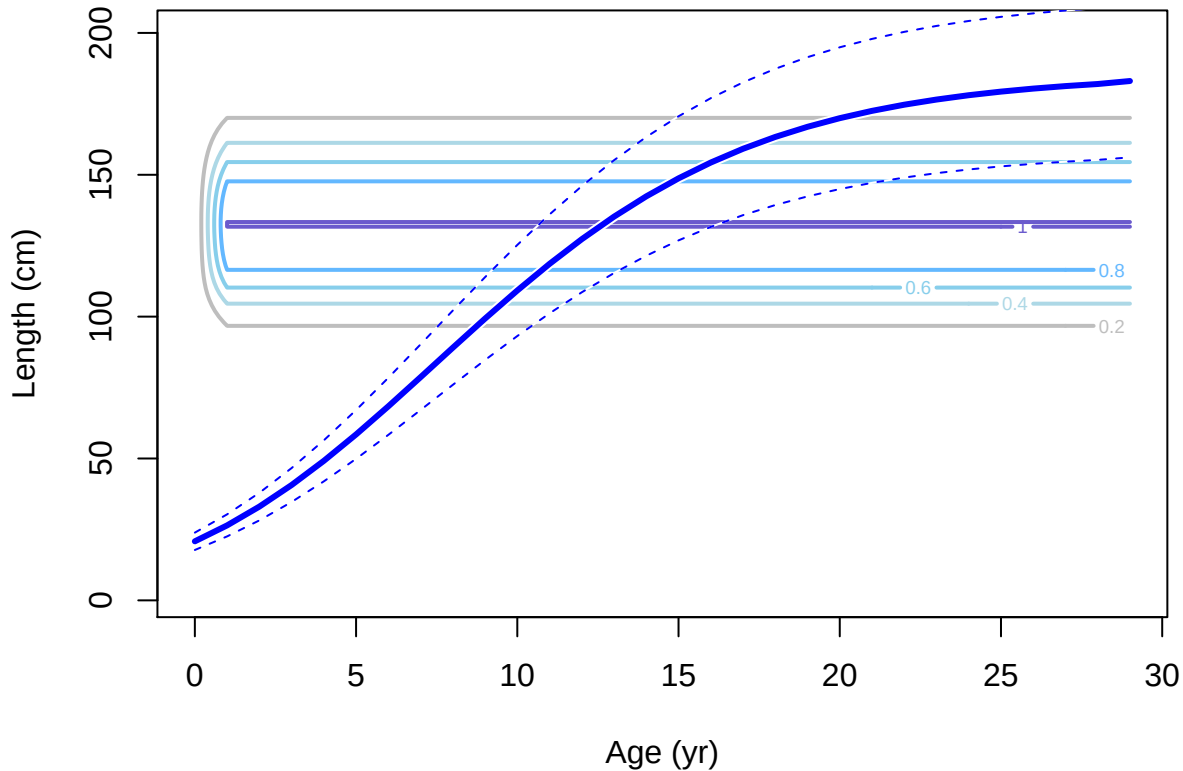
Male ending year selectivity and growth for F11-NOA_N



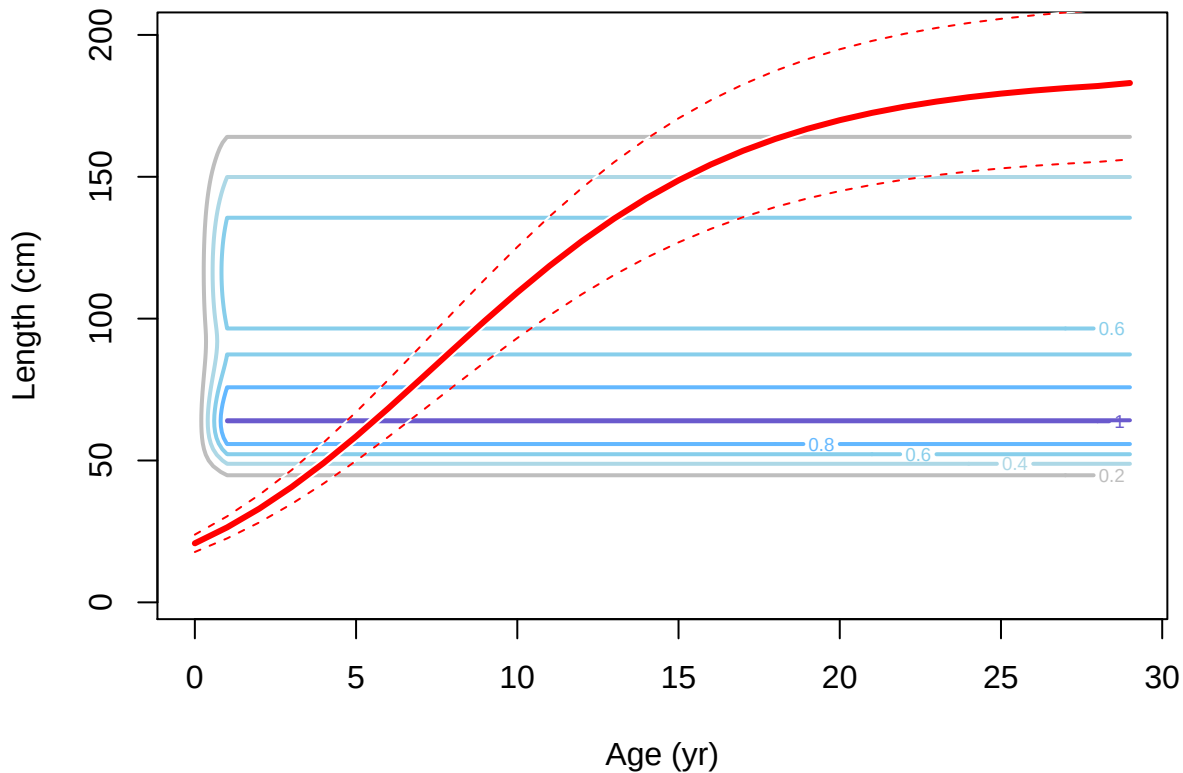
Female ending year selectivity and growth for F12-NOA_C



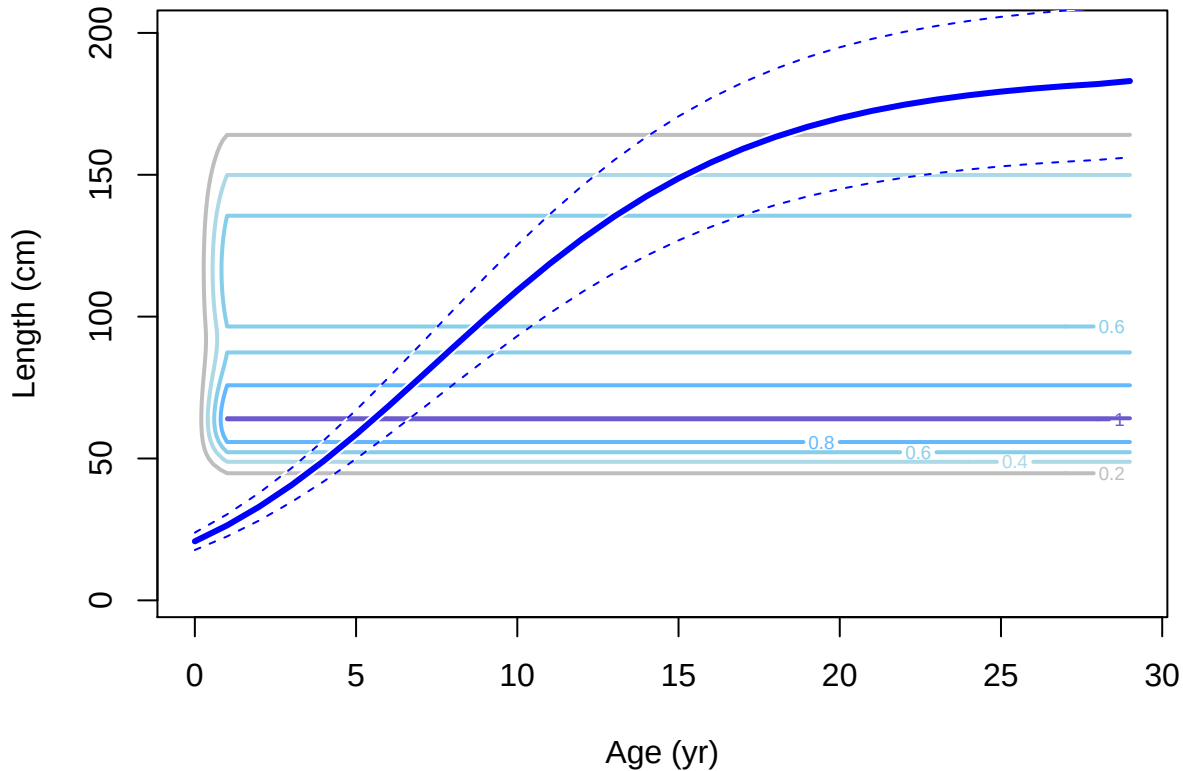
Male ending year selectivity and growth for F12-NOA_C



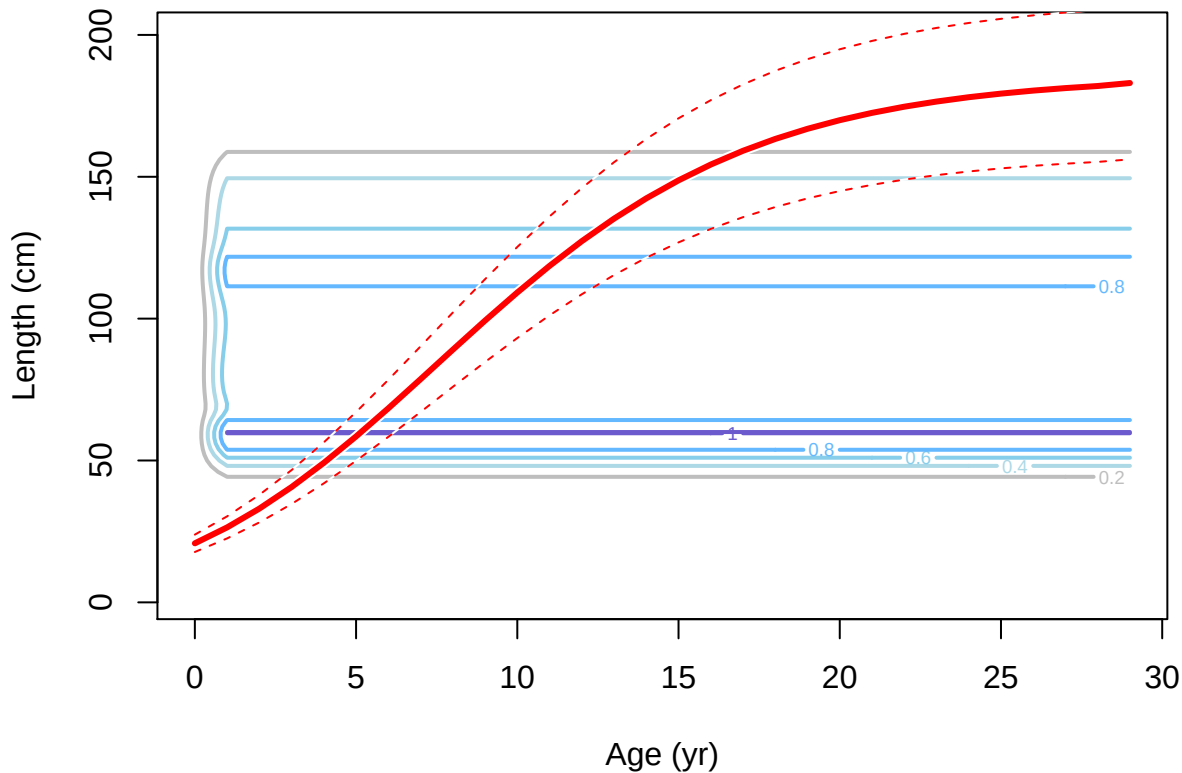
Female ending year selectivity and growth for F13-NOA_I



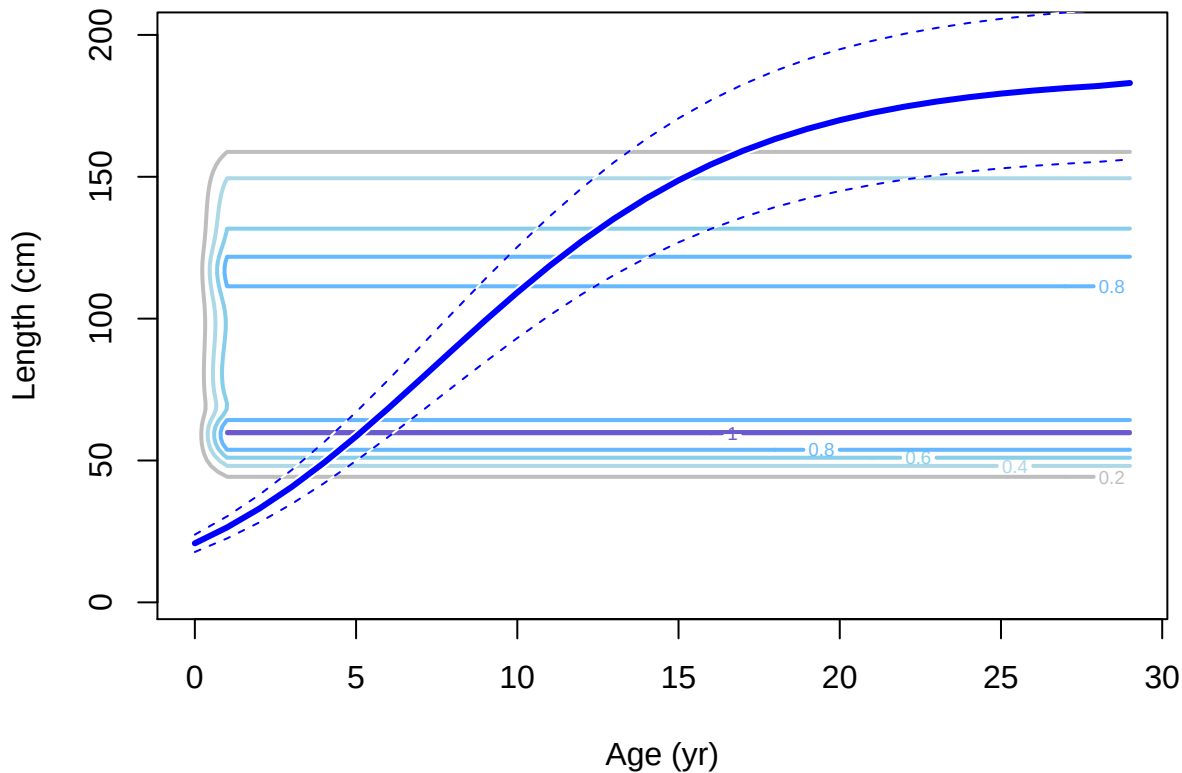
Male ending year selectivity and growth for F13-NOA_I



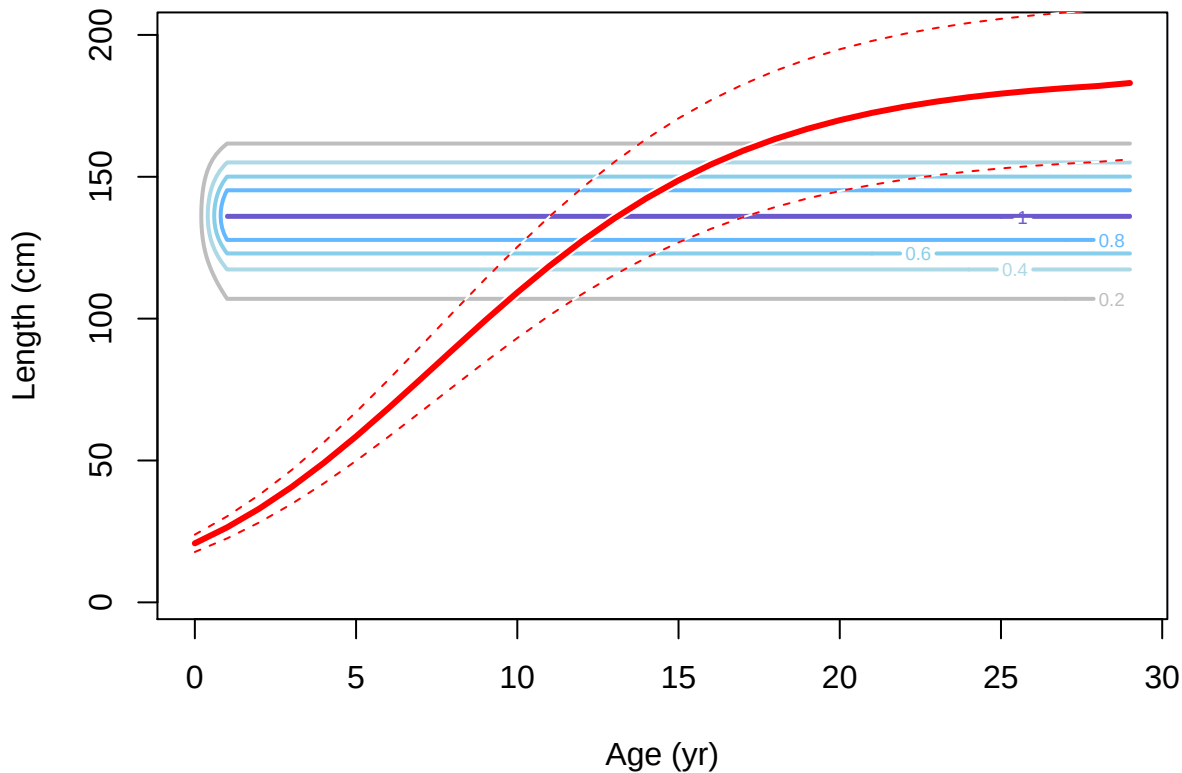
Female ending year selectivity and growth for F14-NOA_S



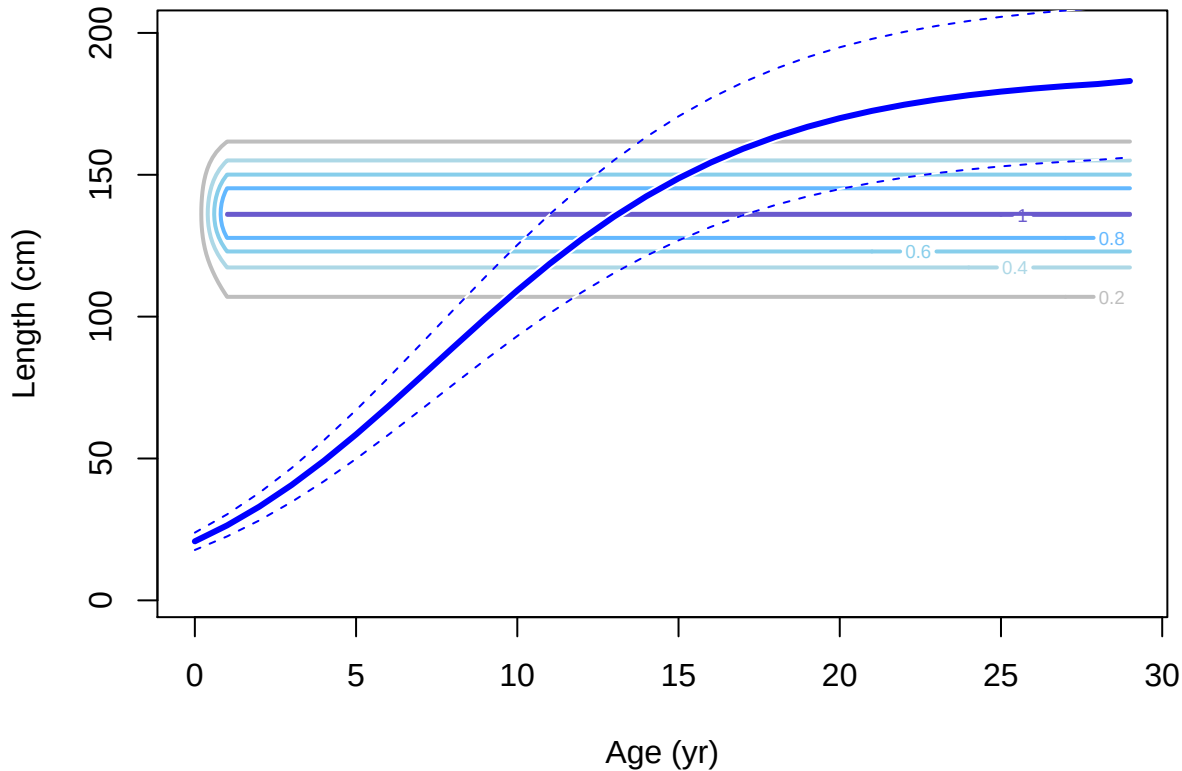
Male ending year selectivity and growth for F14-NOA_S



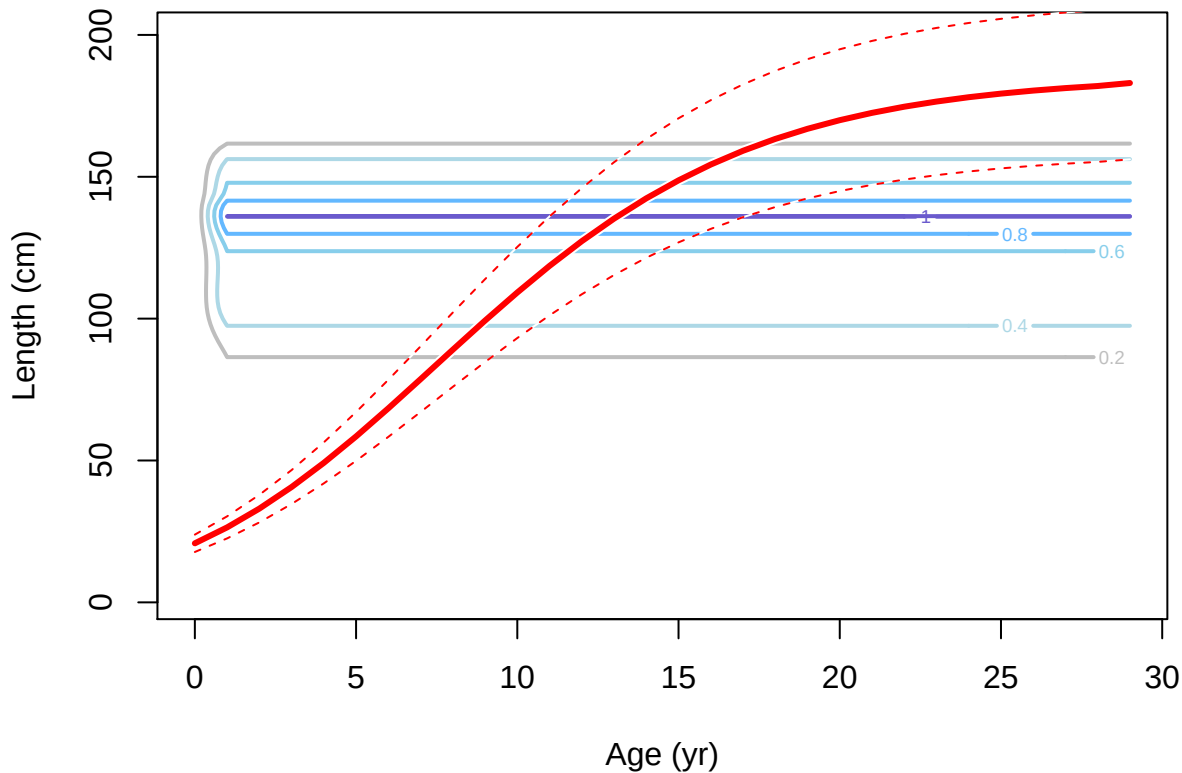
Female ending year selectivity and growth for F15-DEL_N



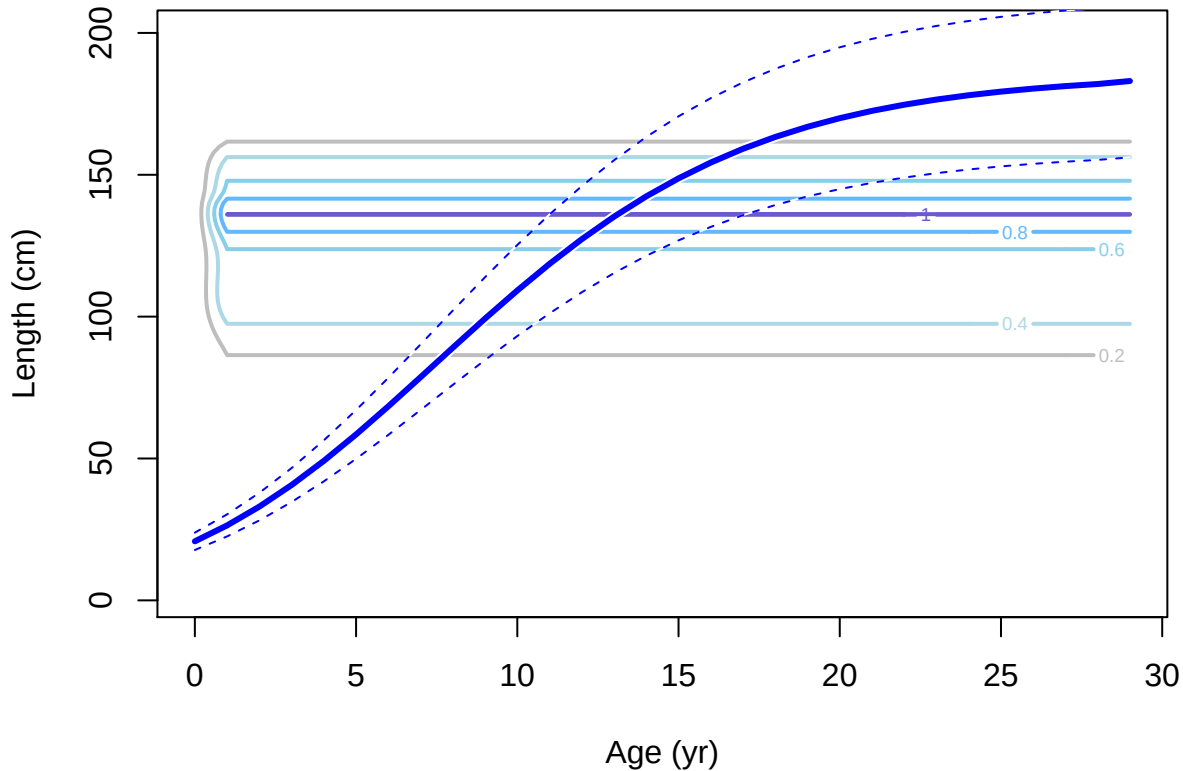
Male ending year selectivity and growth for F15-DEL_N



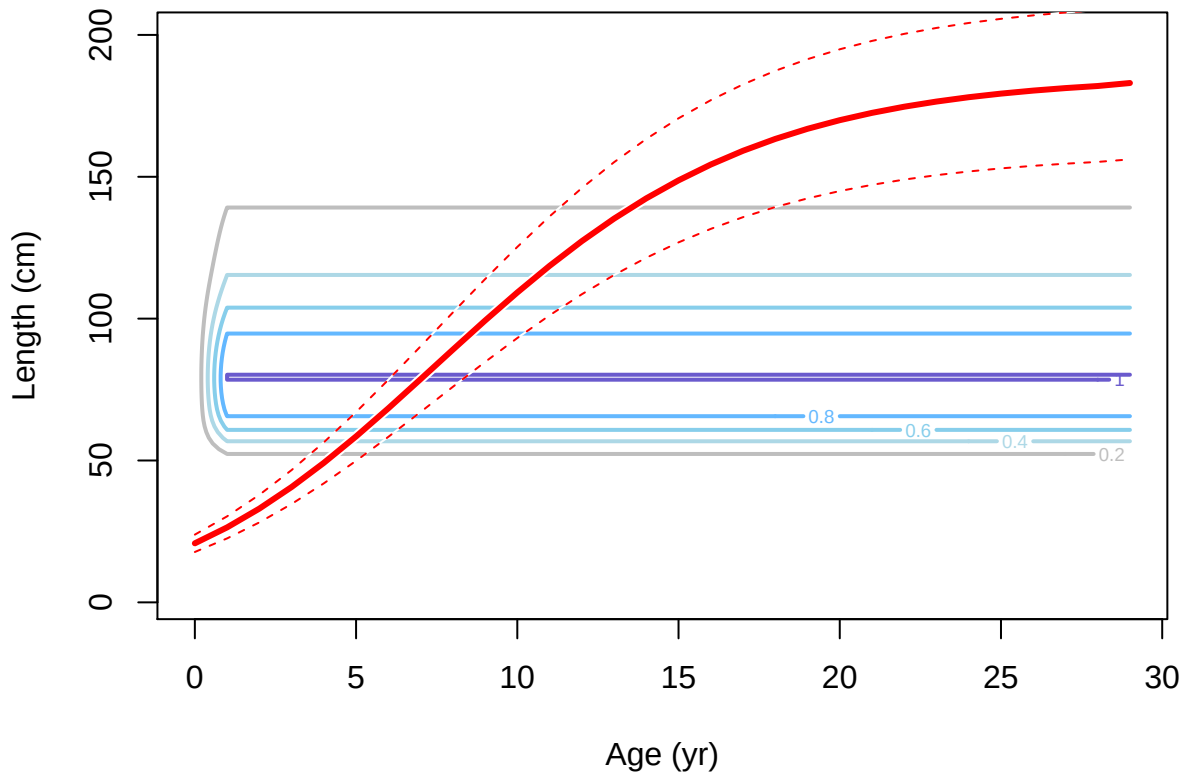
Female ending year selectivity and growth for F16-DEL_NE



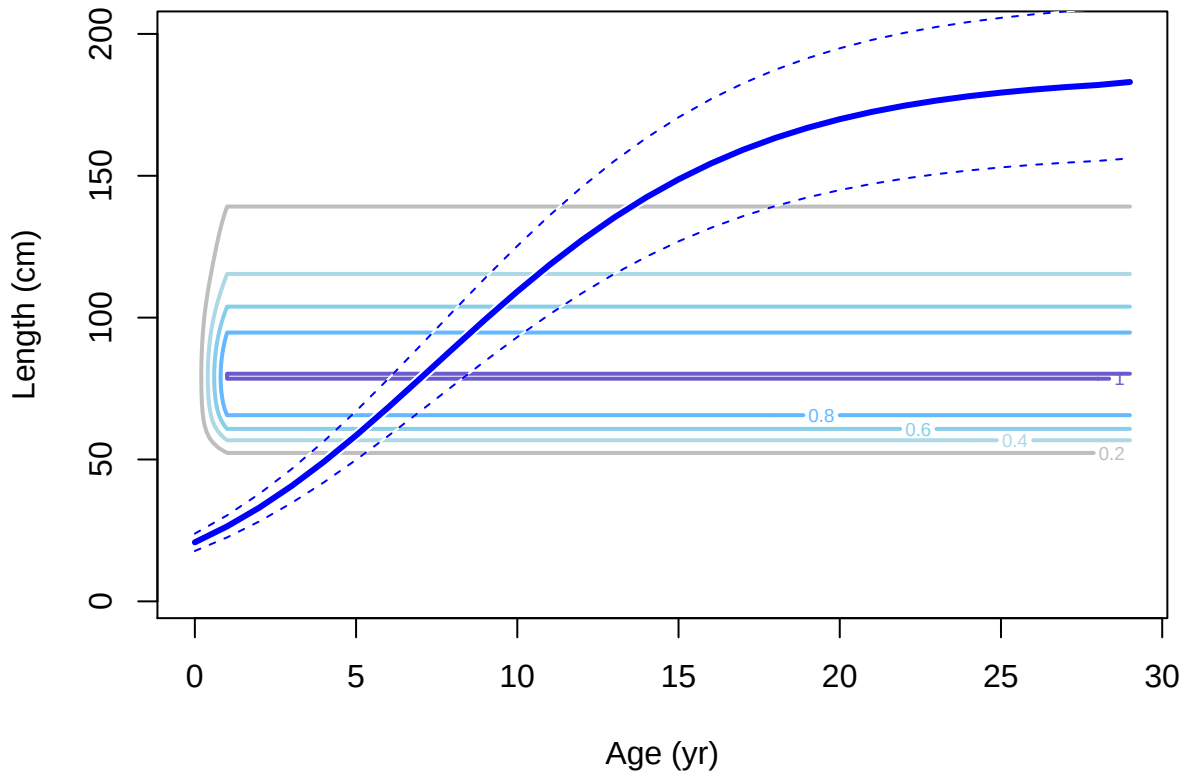
Male ending year selectivity and growth for F16-DEL_NE



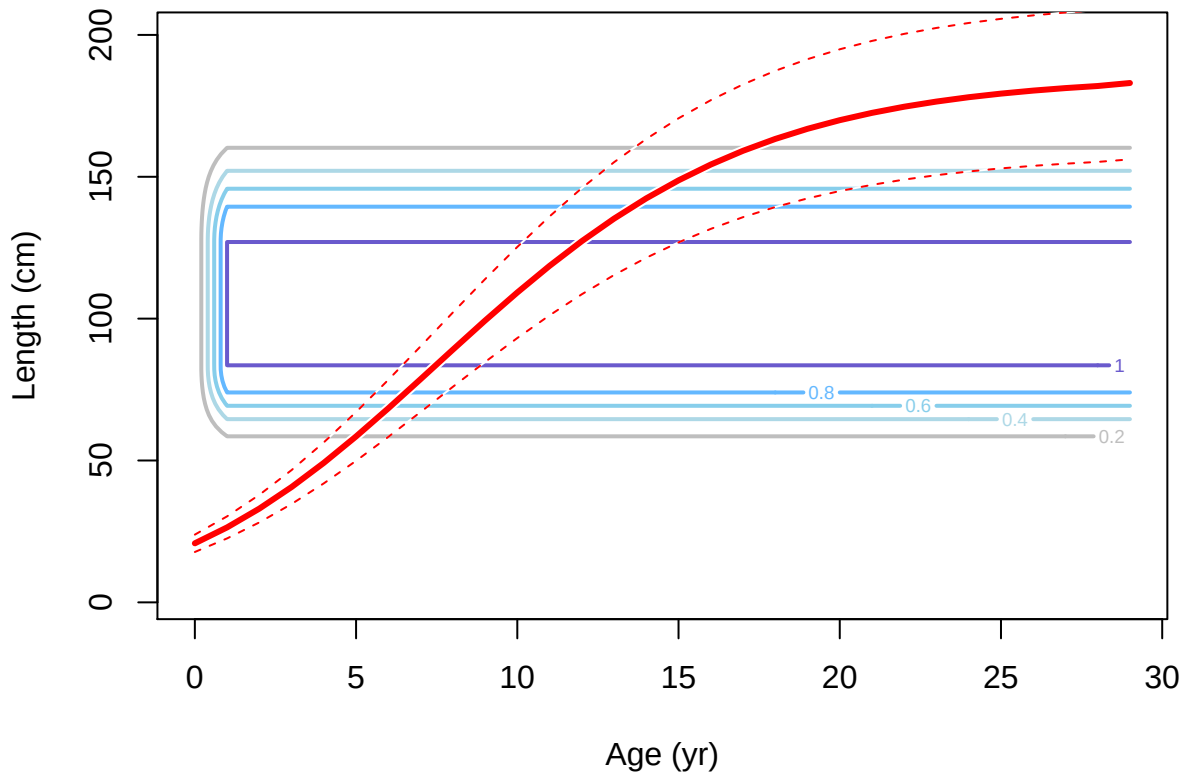
Female ending year selectivity and growth for F17-DEL_M



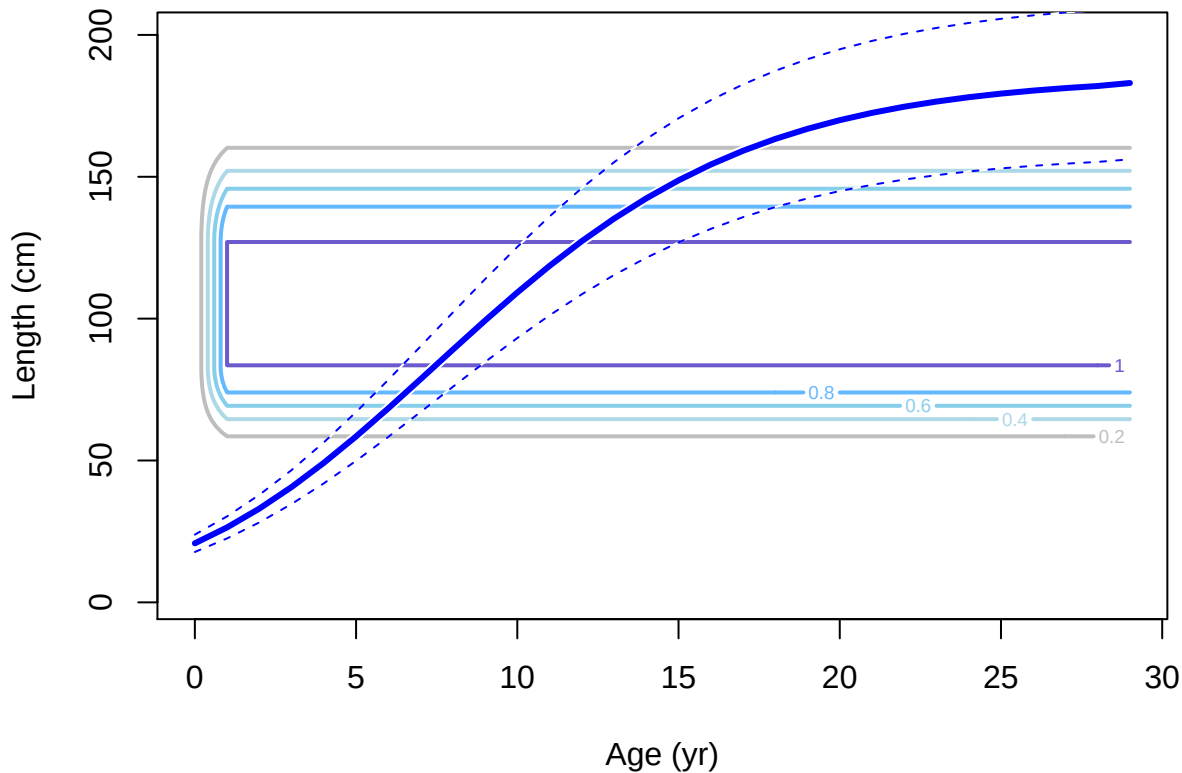
Male ending year selectivity and growth for F17-DEL_M



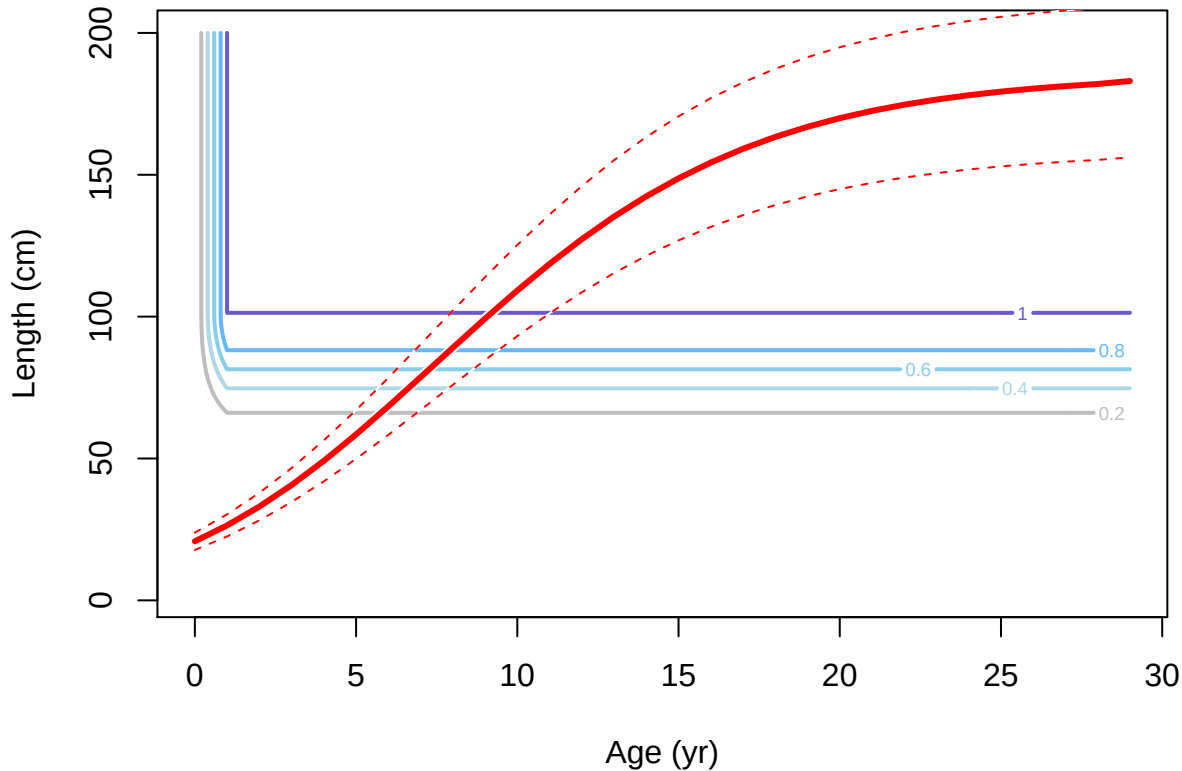
Female ending year selectivity and growth for F18-DEL_C



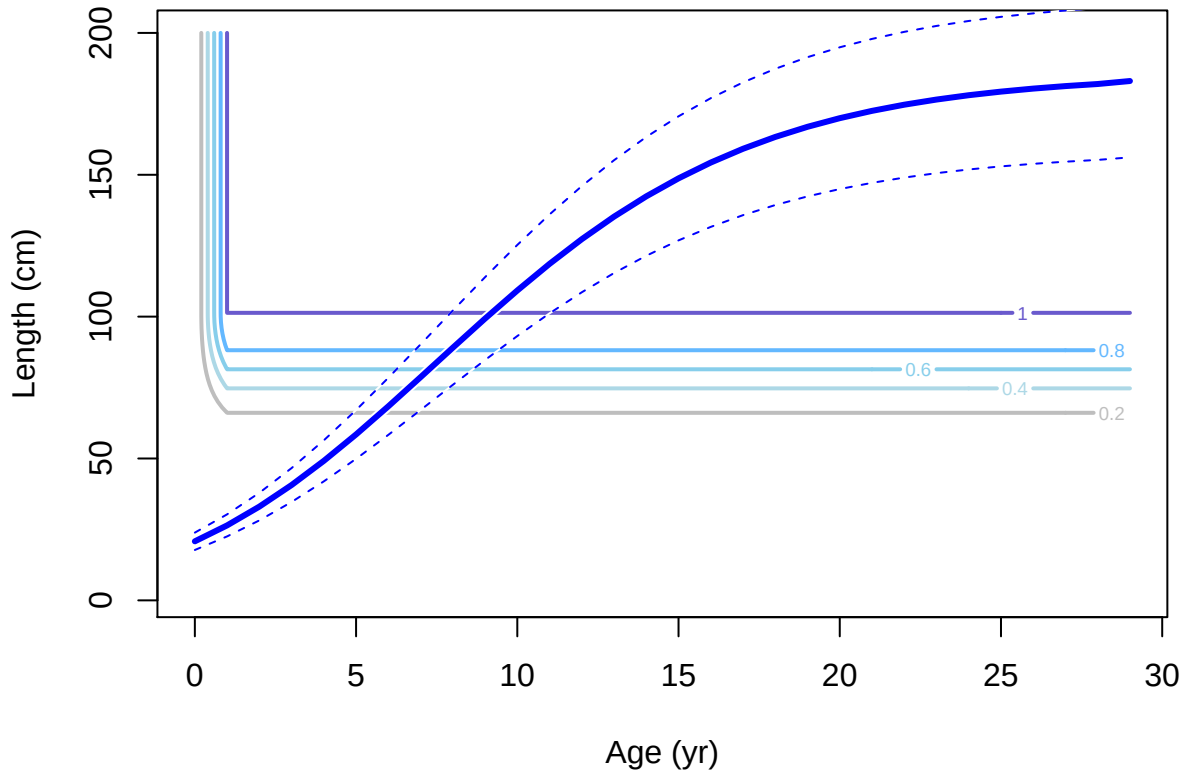
Male ending year selectivity and growth for F18-DEL_C



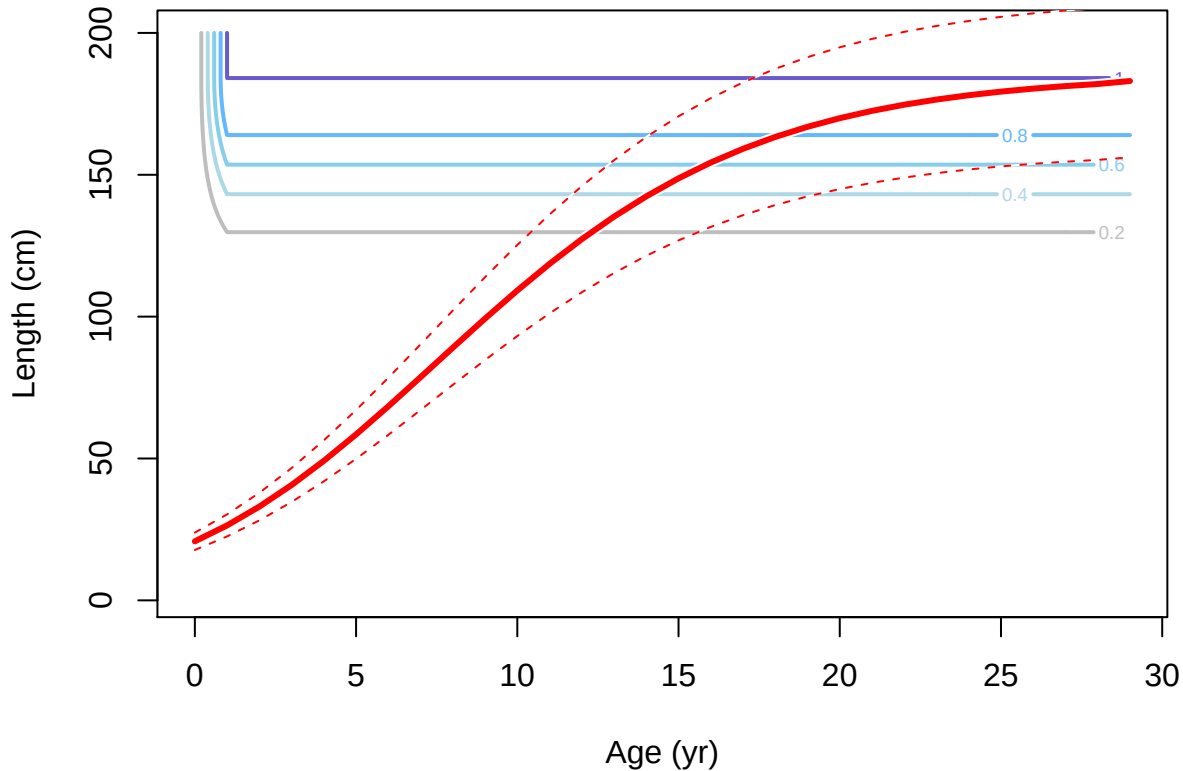
Female ending year selectivity and growth for F19-DEL_P



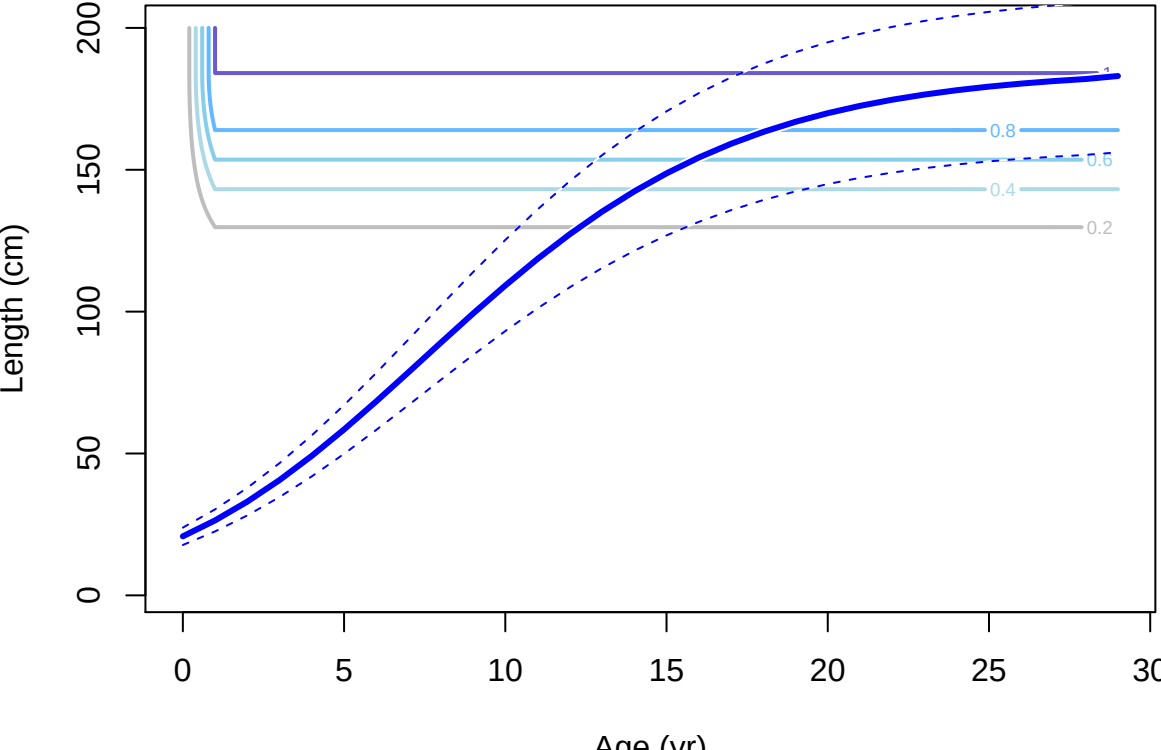
Male ending year selectivity and growth for F19-DEL_P



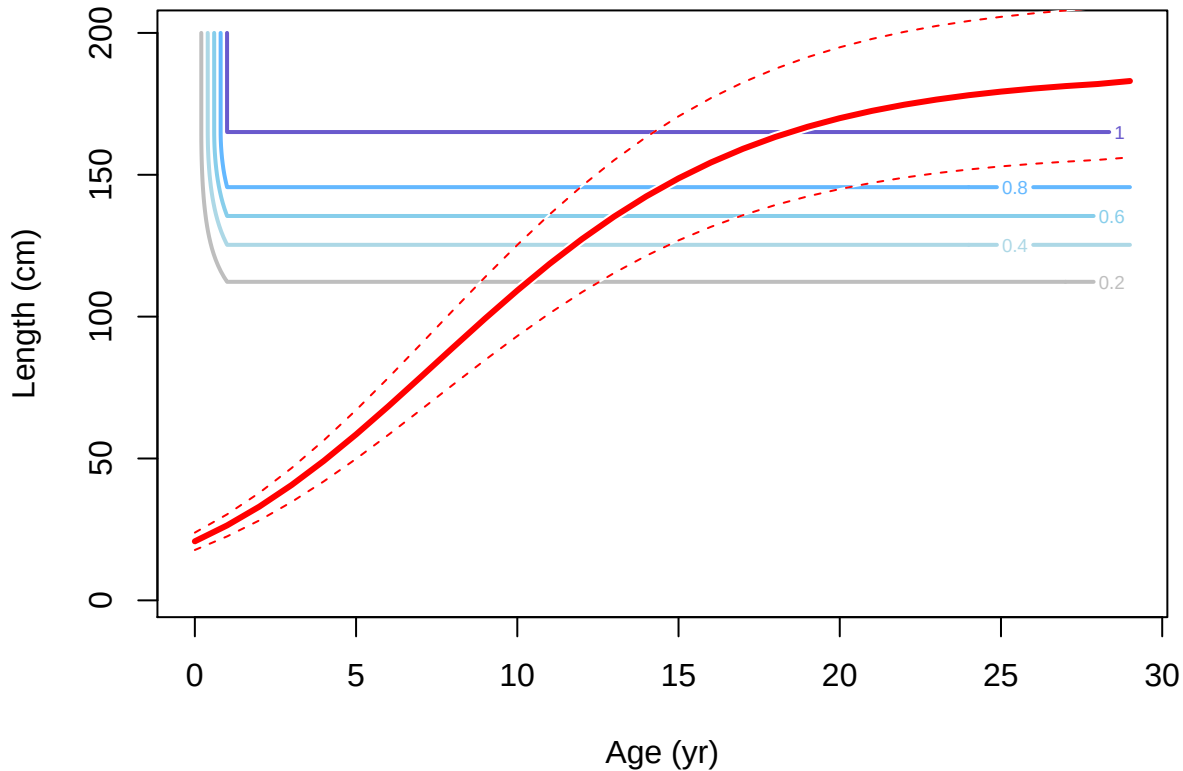
Female ending year selectivity and growth for F20-DEL_S



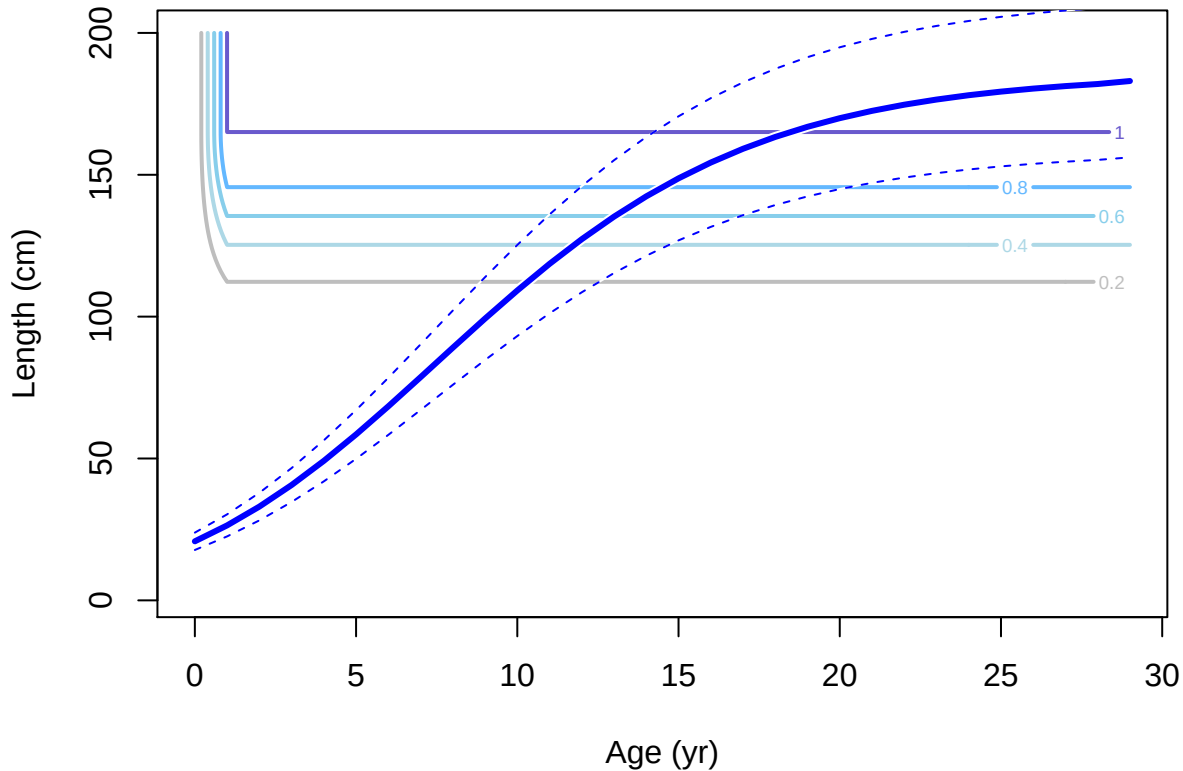
Male ending year selectivity and growth for F20-DEL_S



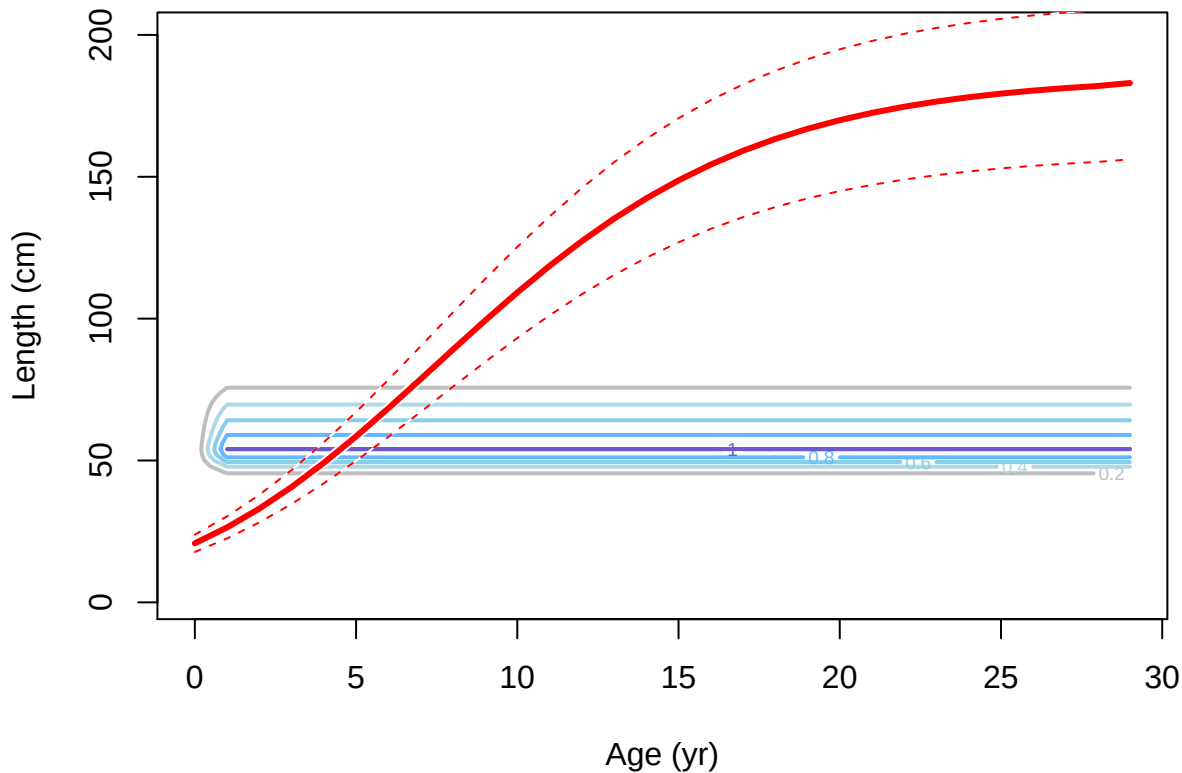
Female ending year selectivity and growth for F21-DEL_I



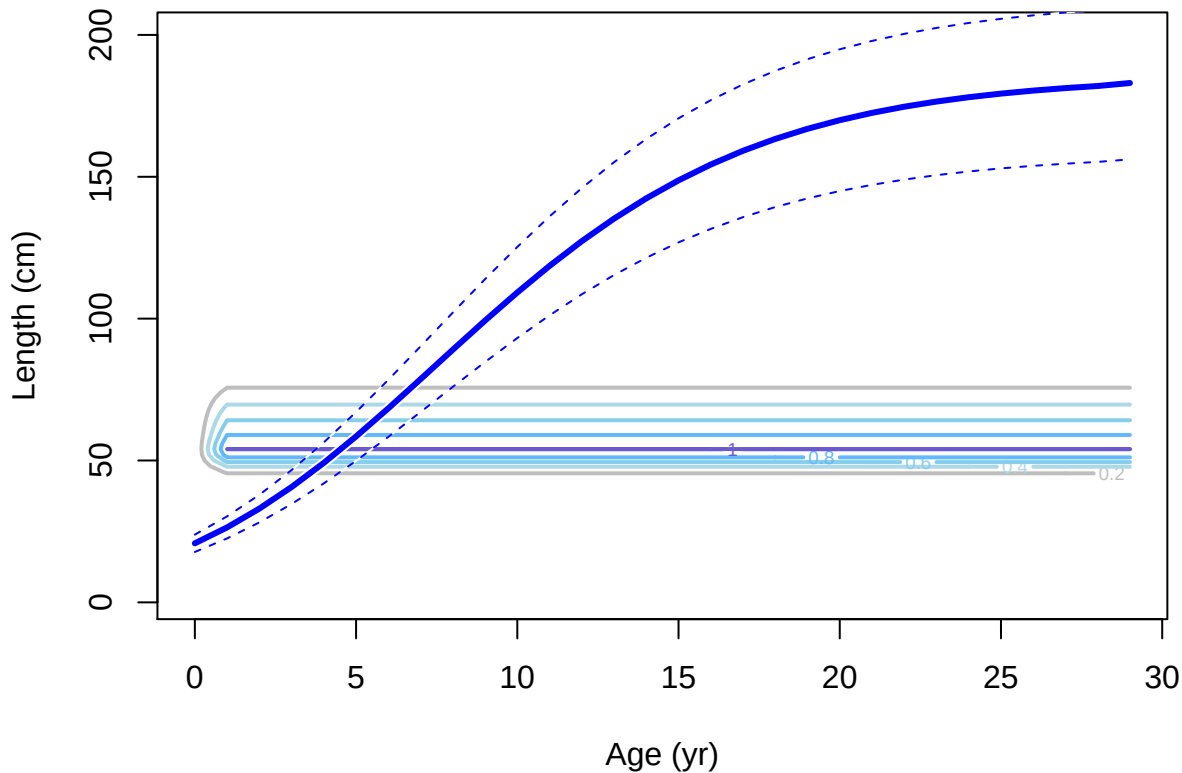
Male ending year selectivity and growth for F21-DEL_I



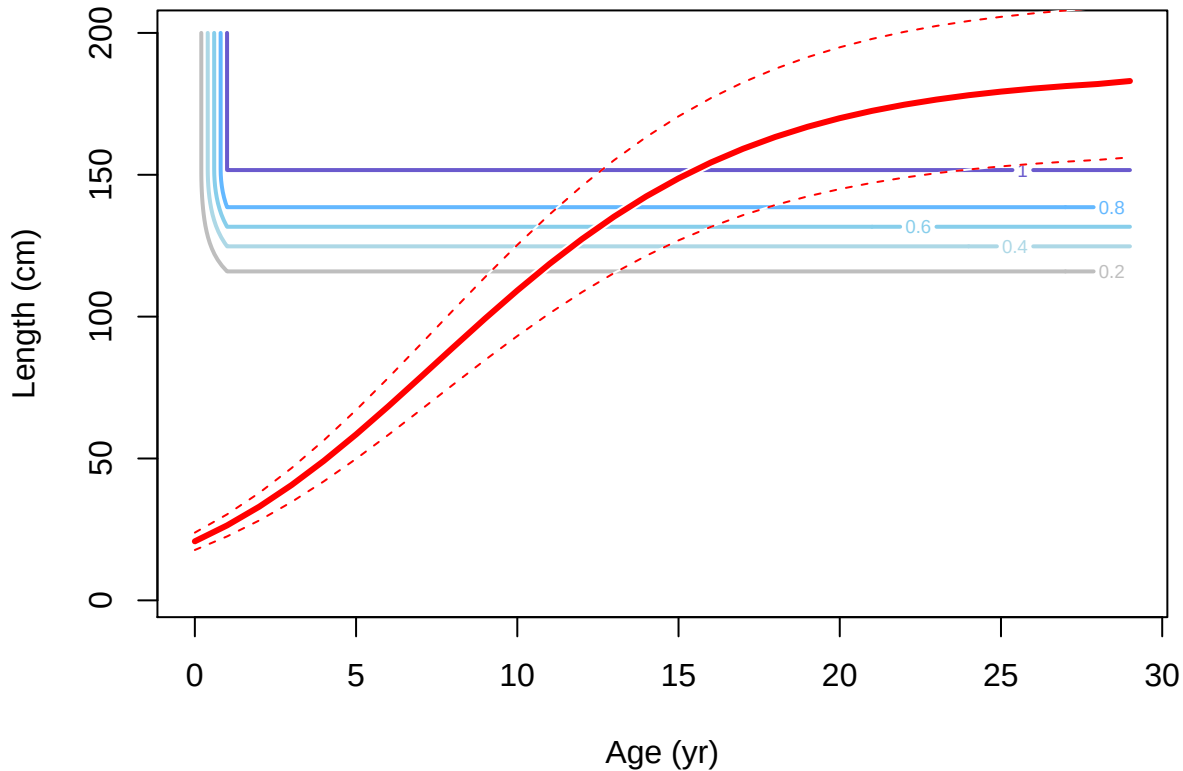
Female ending year selectivity and growth for F22-BB



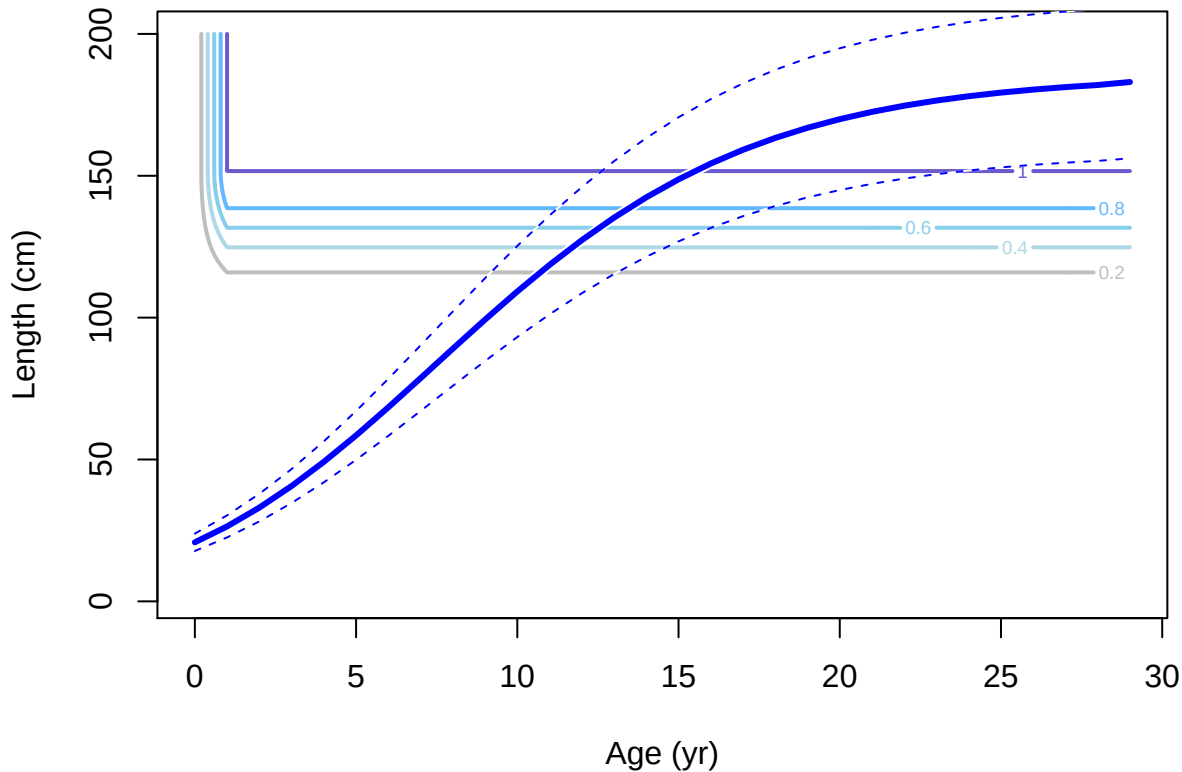
Male ending year selectivity and growth for F22-BB



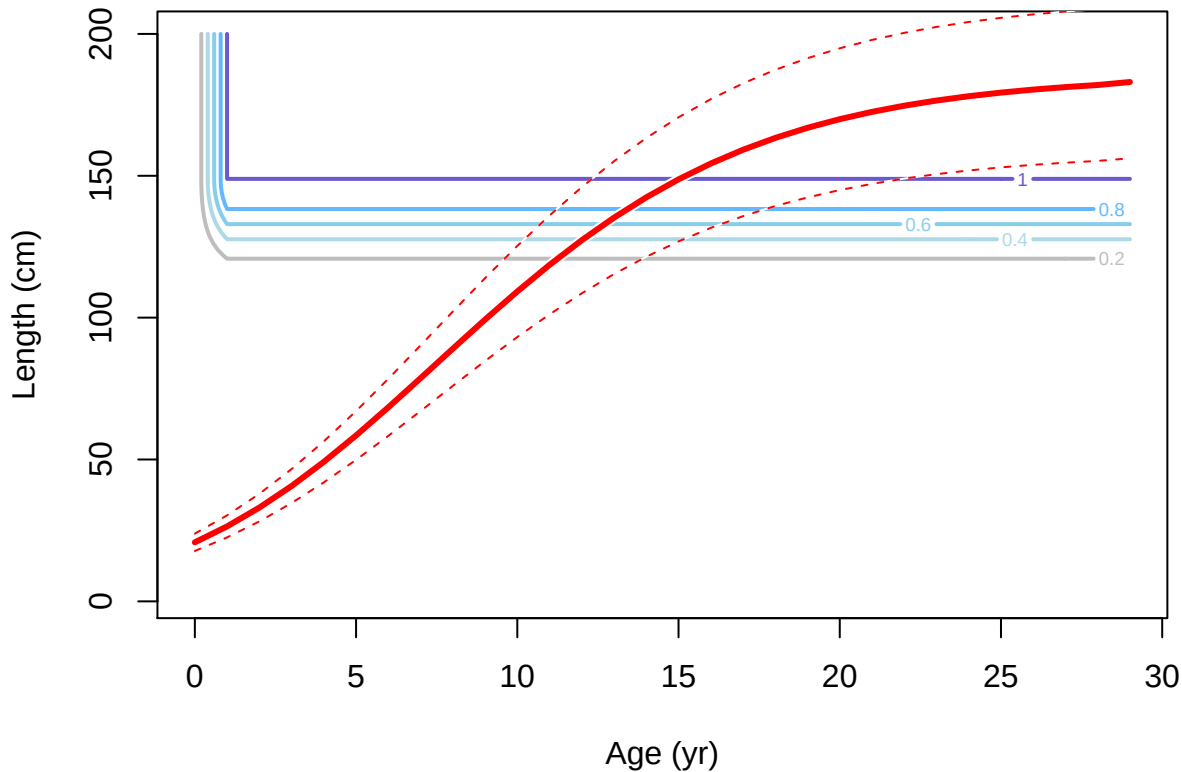
Female ending year selectivity and growth for F29-LL_W_Q14n



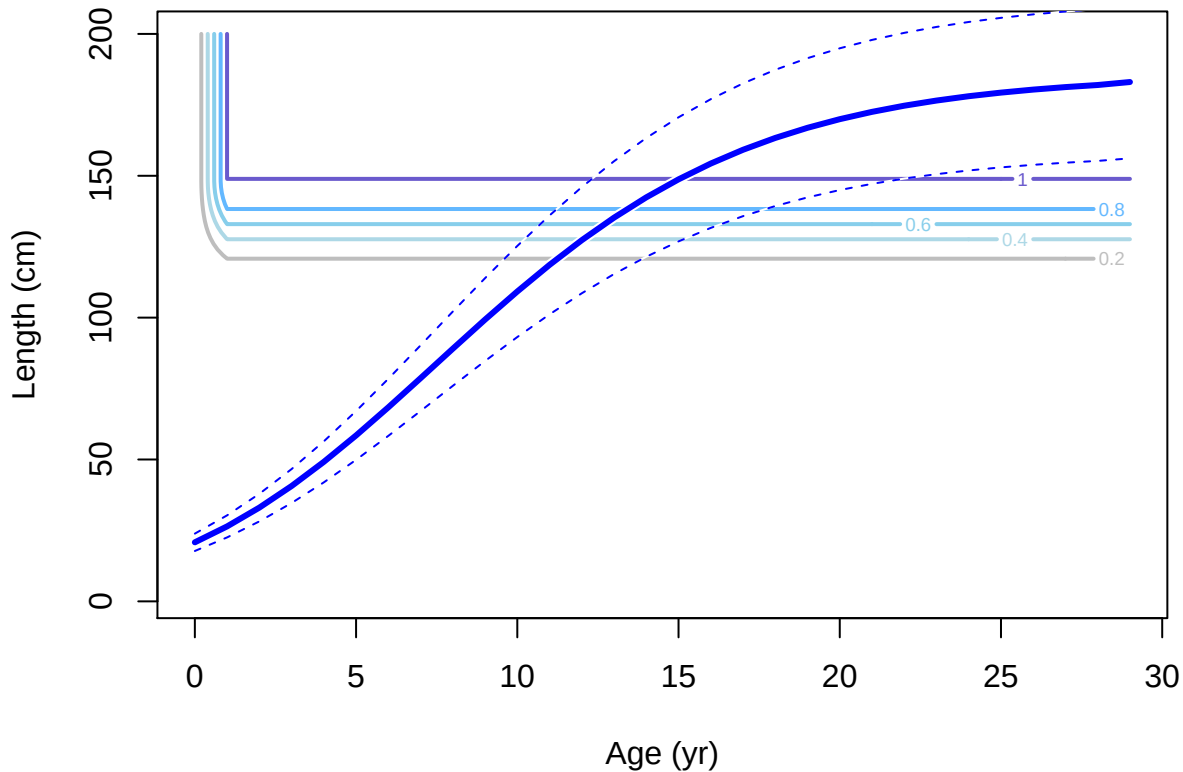
Male ending year selectivity and growth for F29-LL_W_Q14n



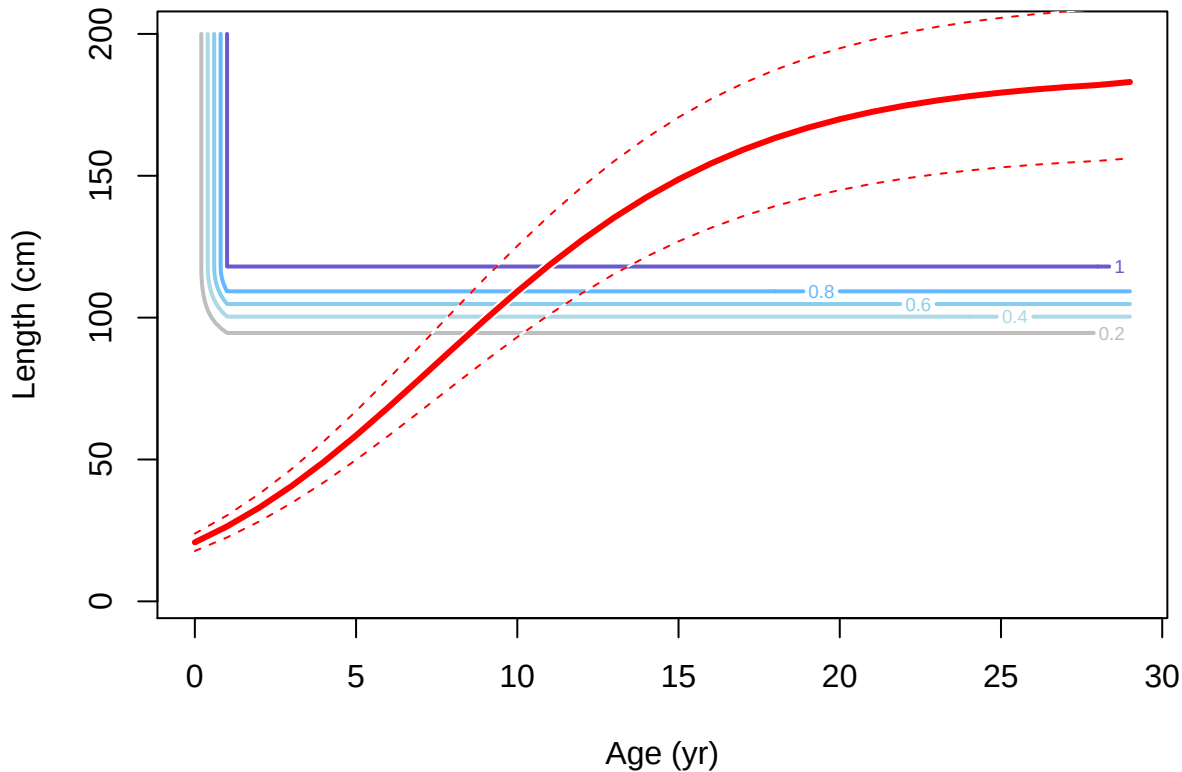
Female ending year selectivity and growth for F30-LL_C_Q14n



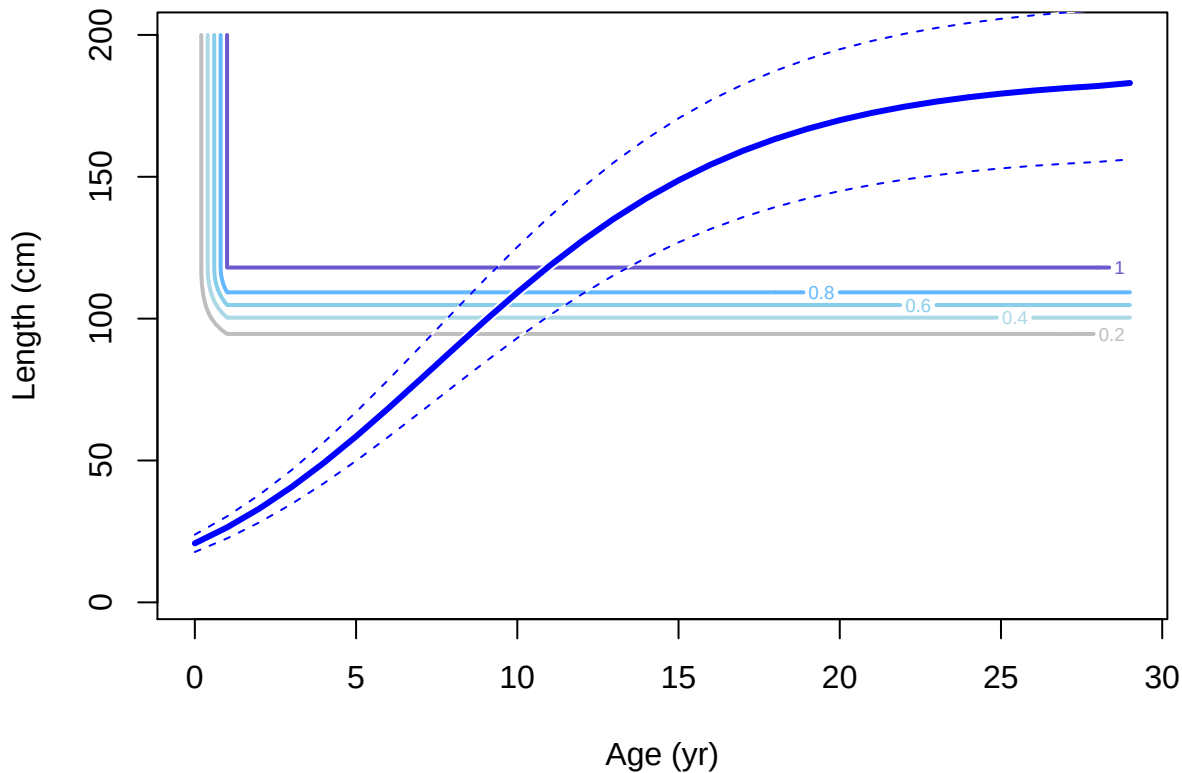
Male ending year selectivity and growth for F30-LL_C_Q14n



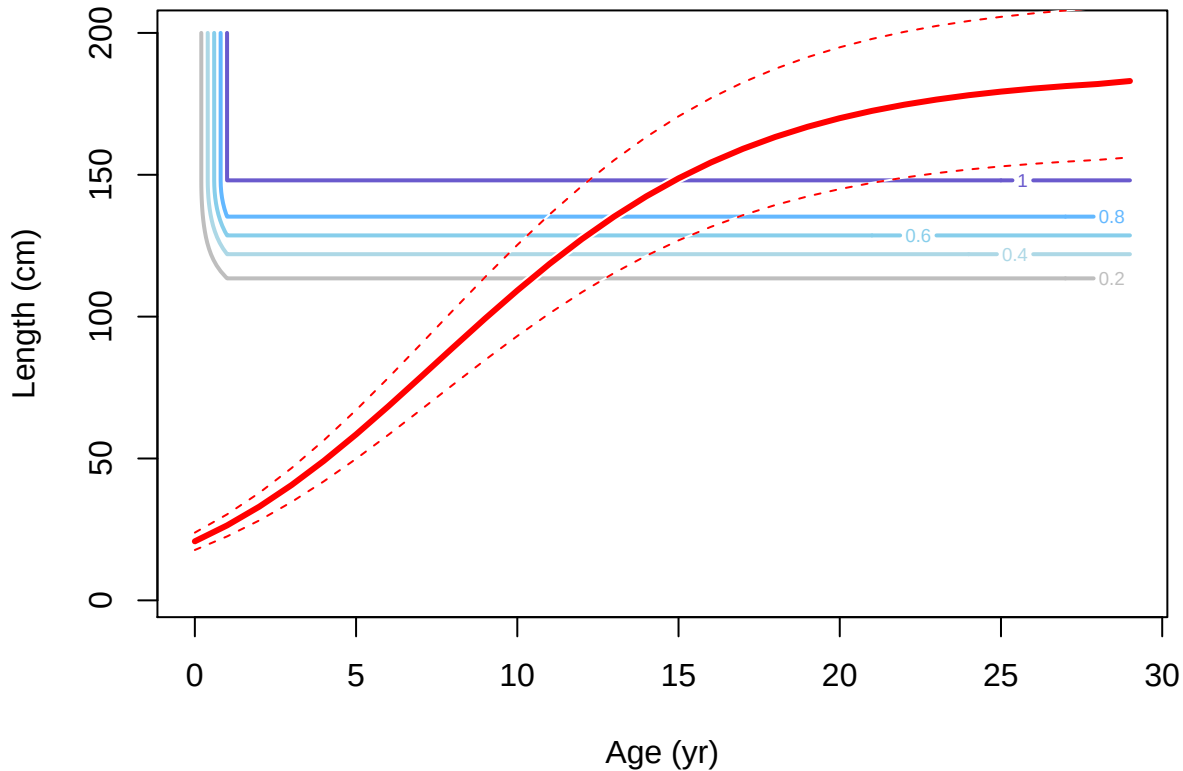
Female ending year selectivity and growth for F31-LL_E_Q14n



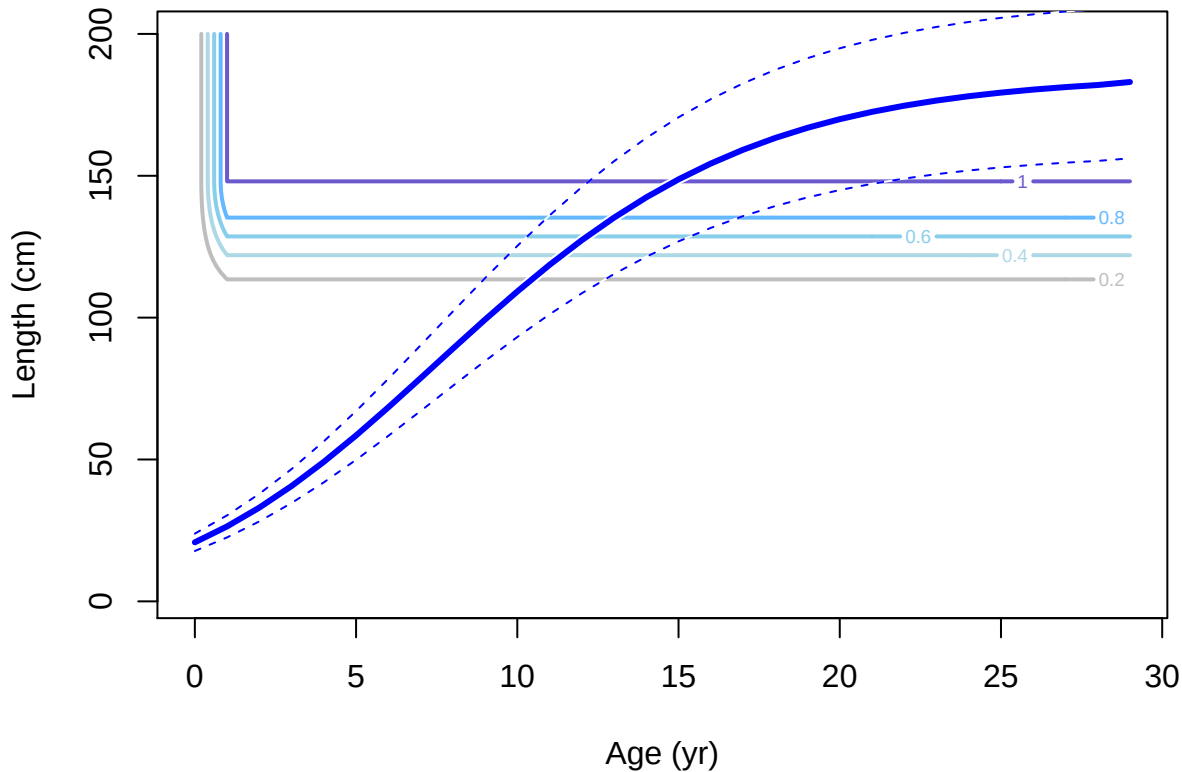
Male ending year selectivity and growth for F31-LL_E_Q14n



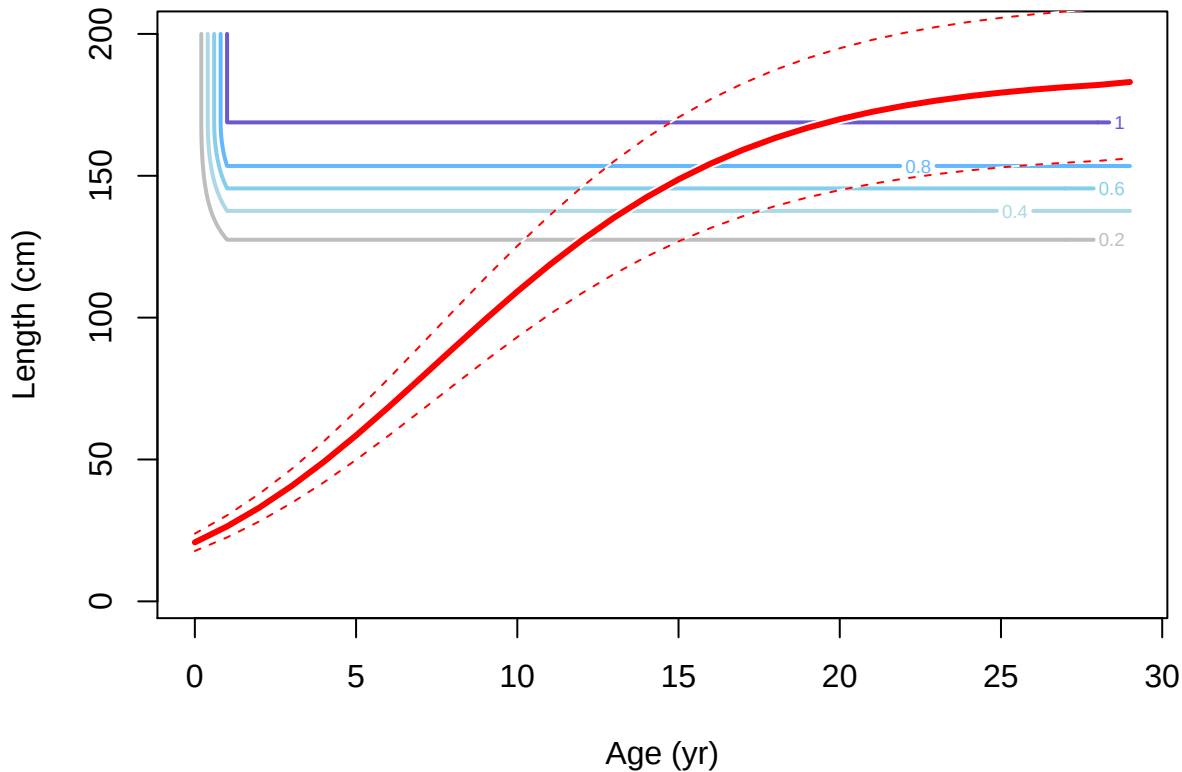
Female ending year selectivity and growth for F32-LL_W_Q23n



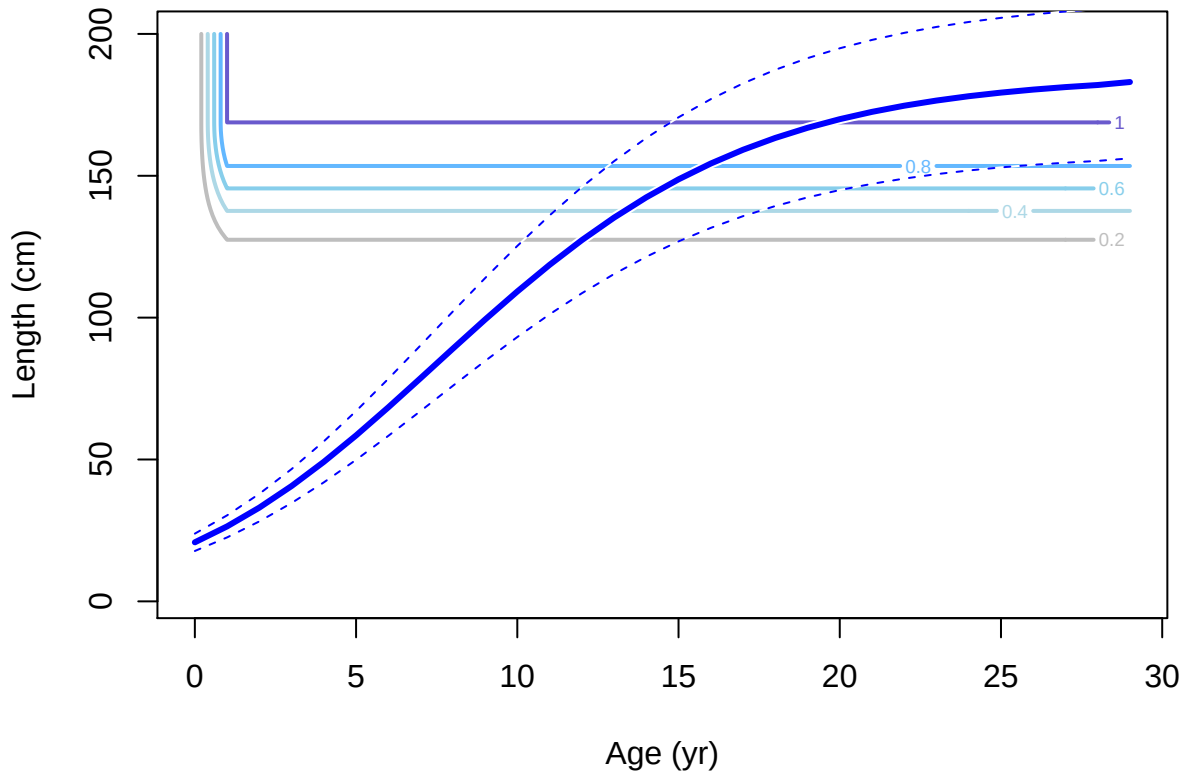
Male ending year selectivity and growth for F32-LL_W_Q23n



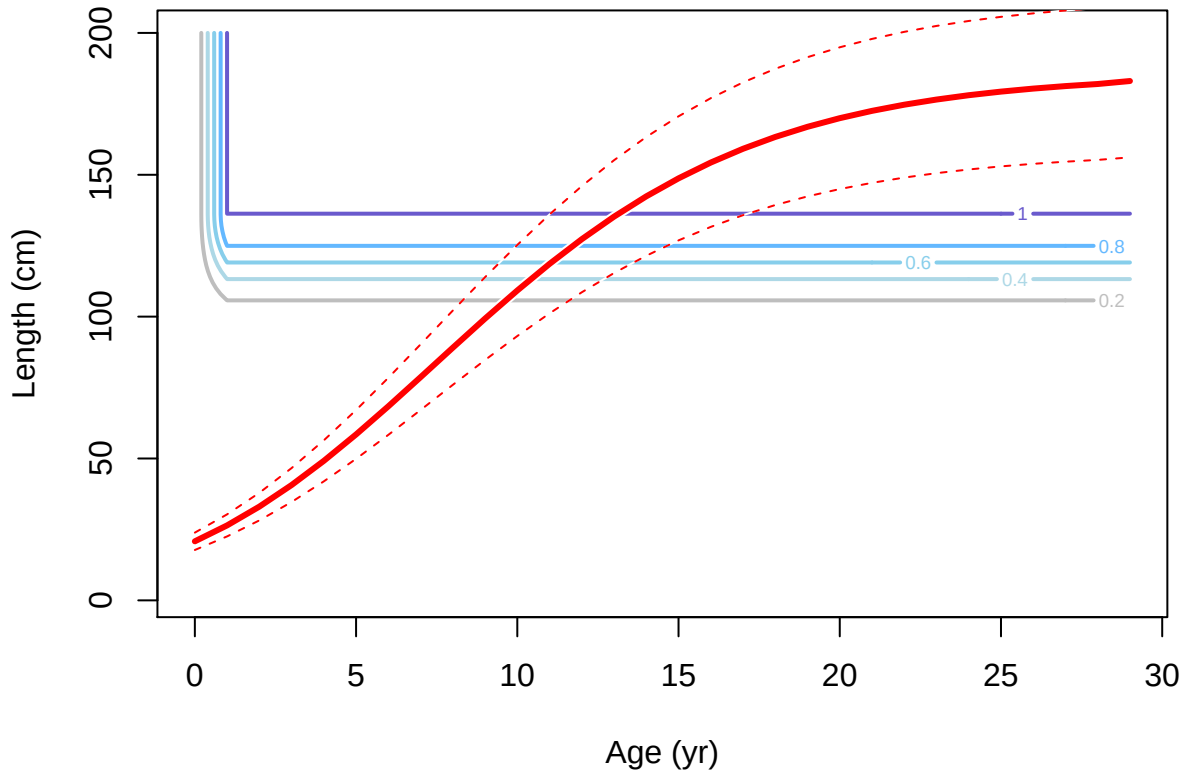
Female ending year selectivity and growth for F33-LL_C_Q23n



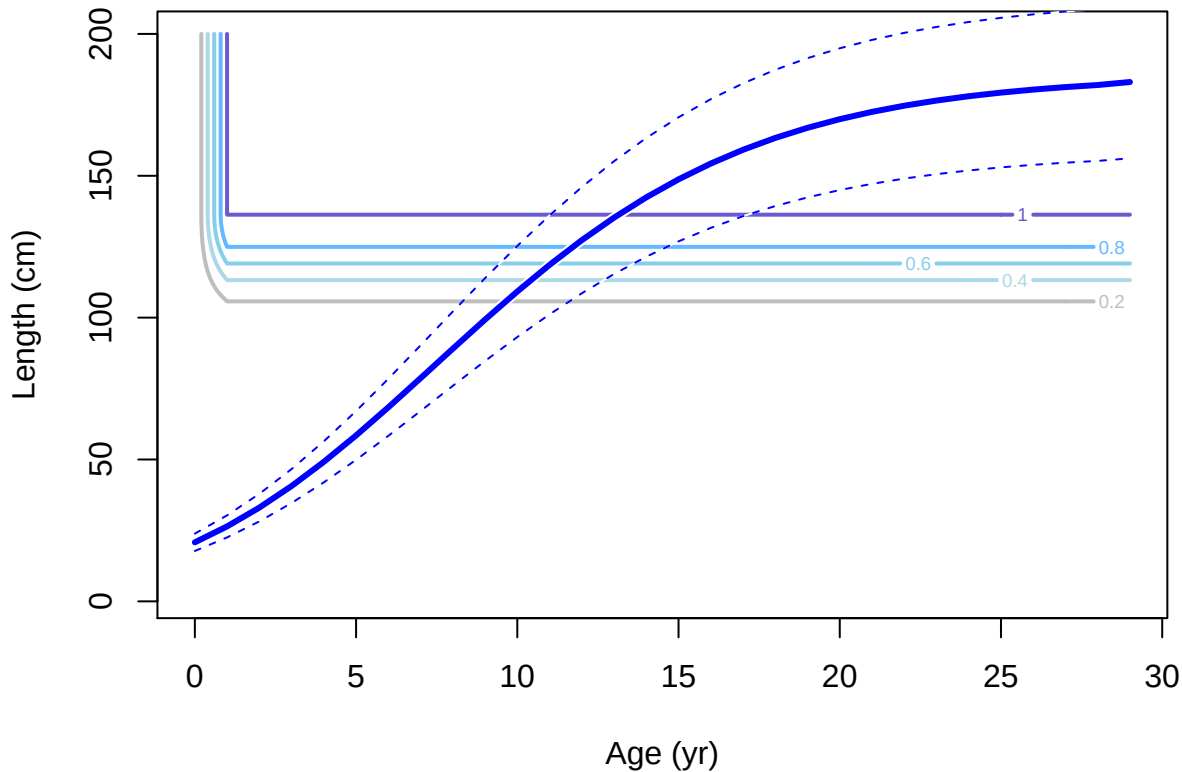
Male ending year selectivity and growth for F33-LL_C_Q23n



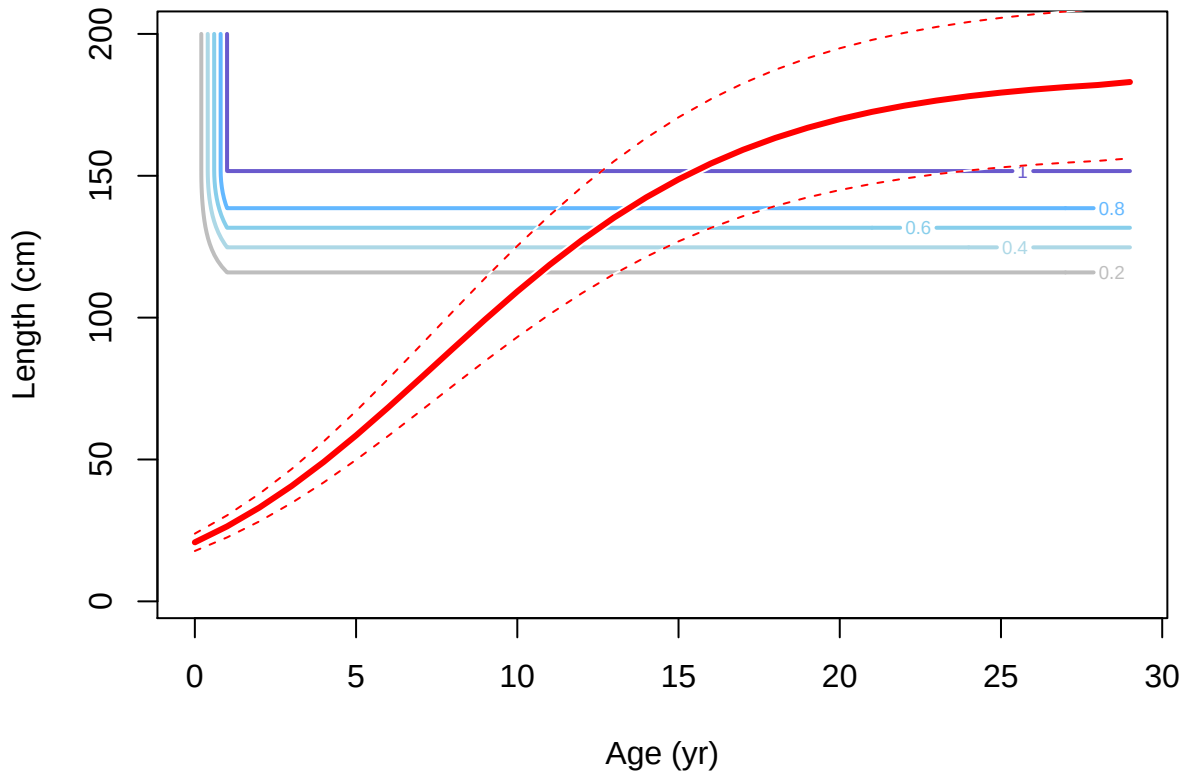
Female ending year selectivity and growth for F34-LL_E_Q23n



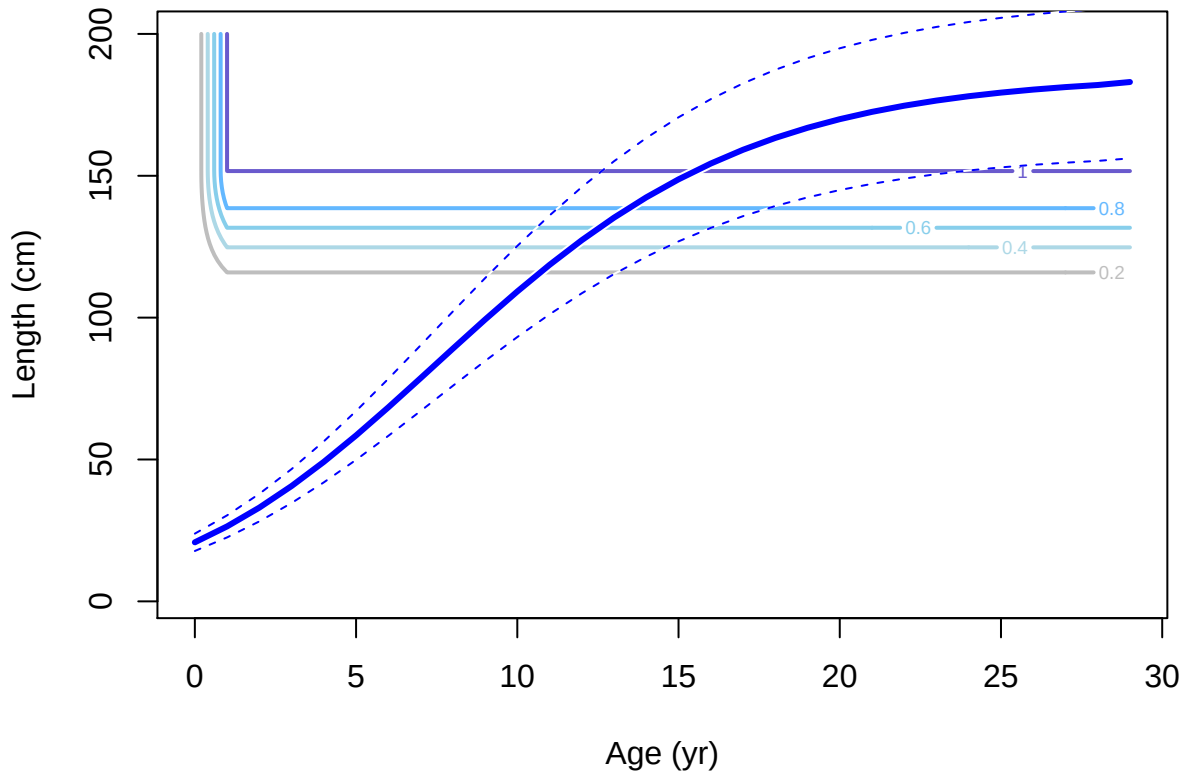
Male ending year selectivity and growth for F34-LL_E_Q23n



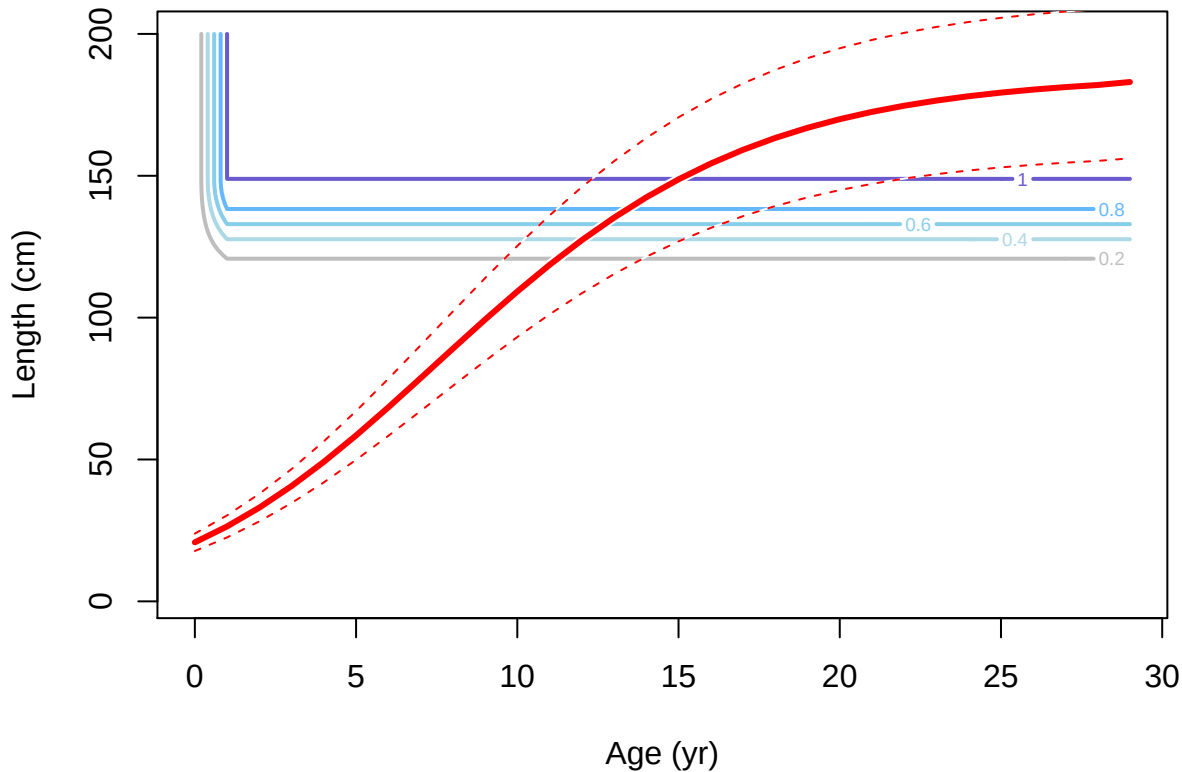
Female ending year selectivity and growth for F35-LL_W_Q14w



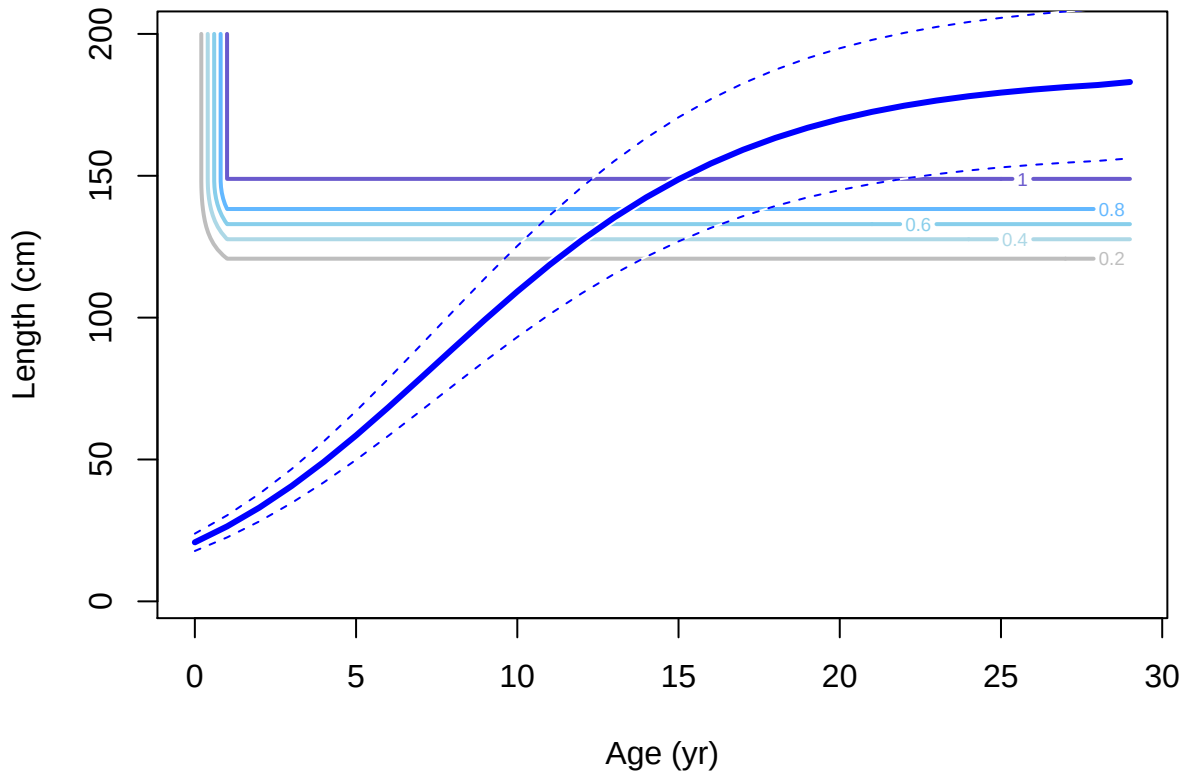
Male ending year selectivity and growth for F35-LL_W_Q14w



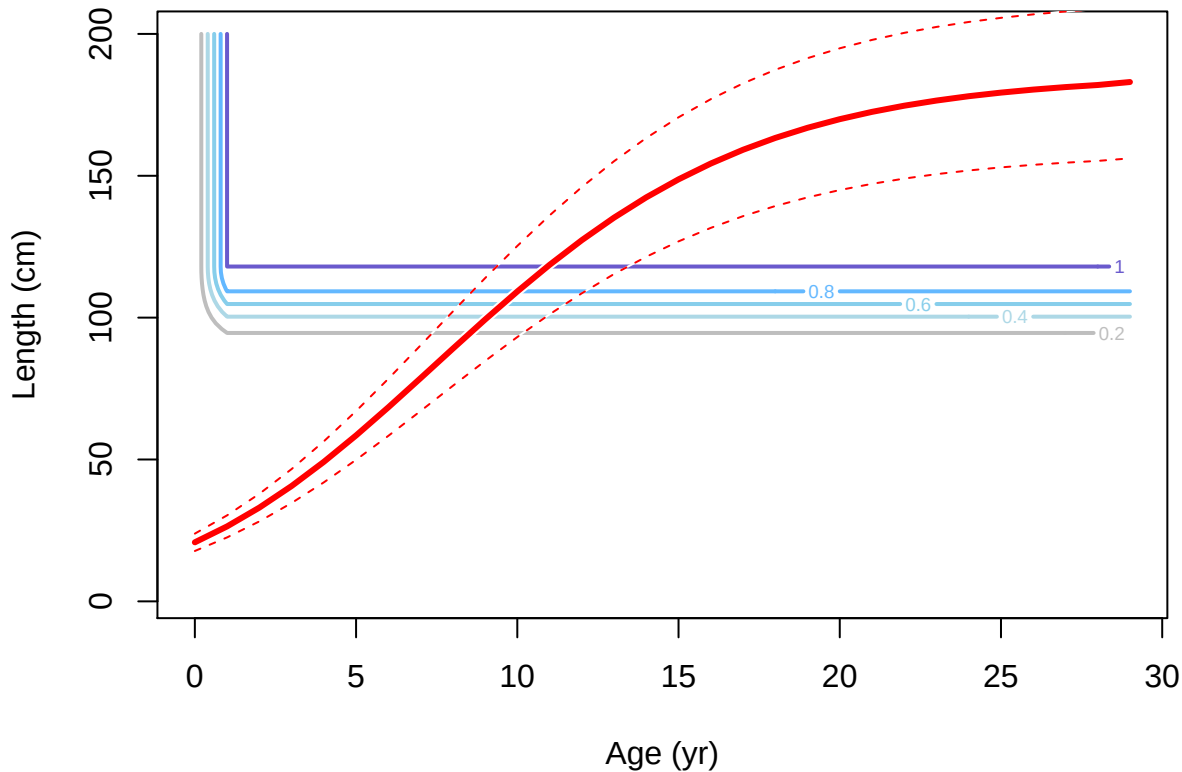
Female ending year selectivity and growth for F36-LL_C_Q14w



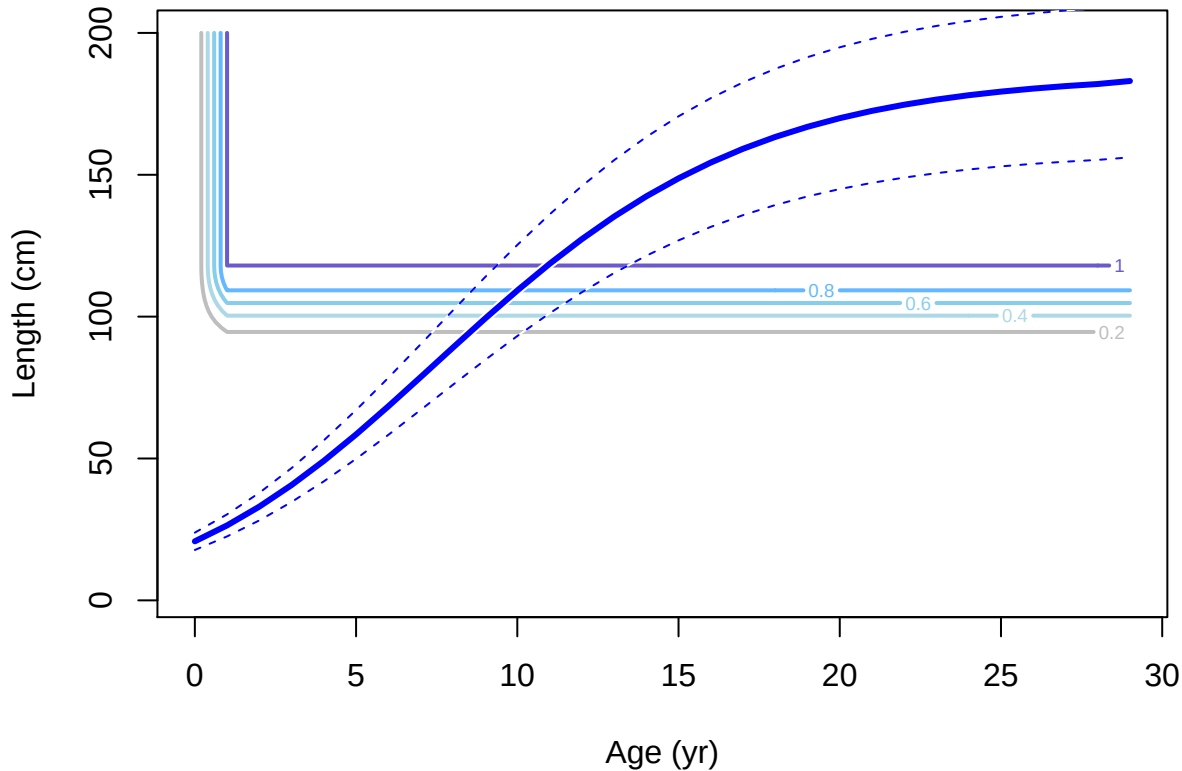
Male ending year selectivity and growth for F36-LL_C_Q14w



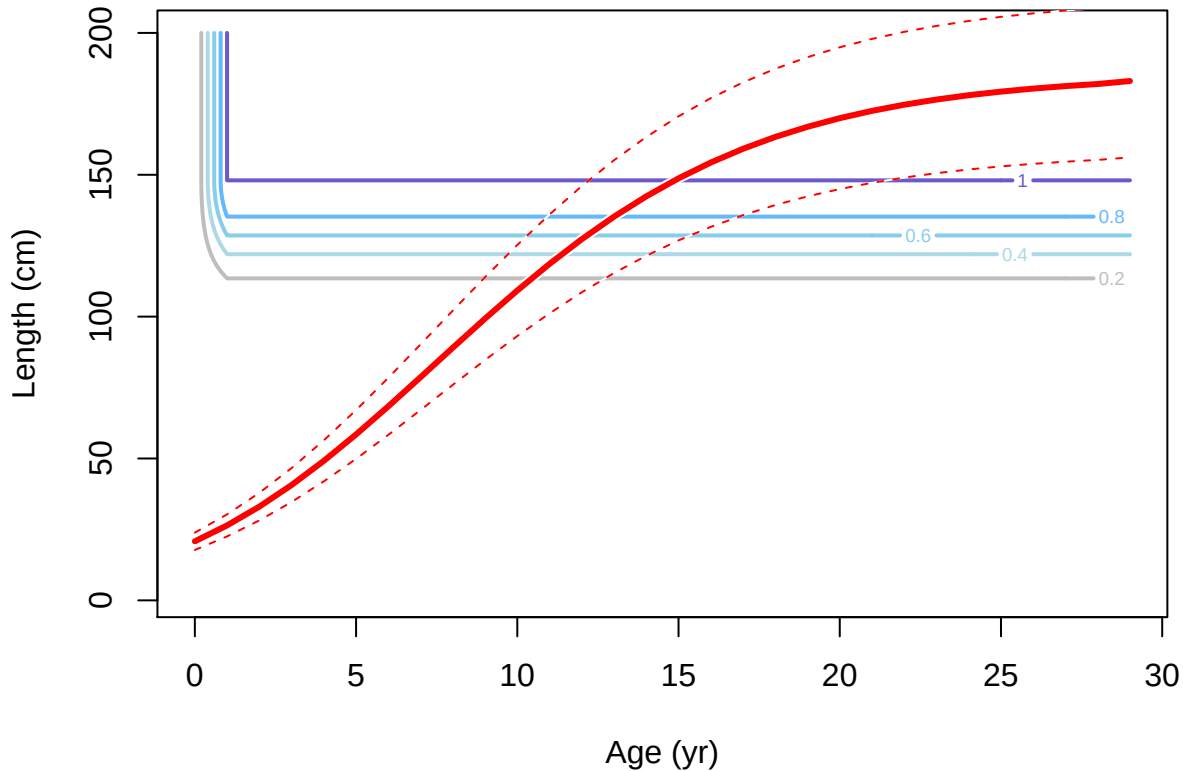
Female ending year selectivity and growth for F37-LL_E_Q14w



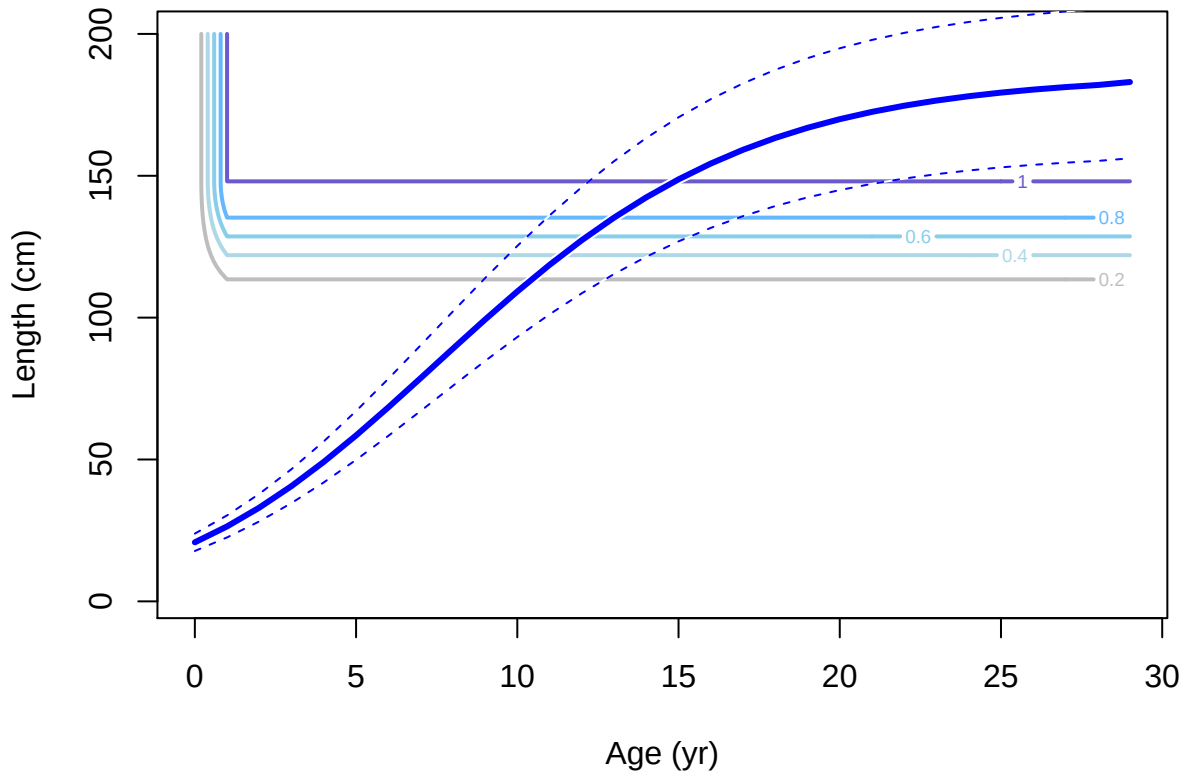
Male ending year selectivity and growth for F37-LL_E_Q14w



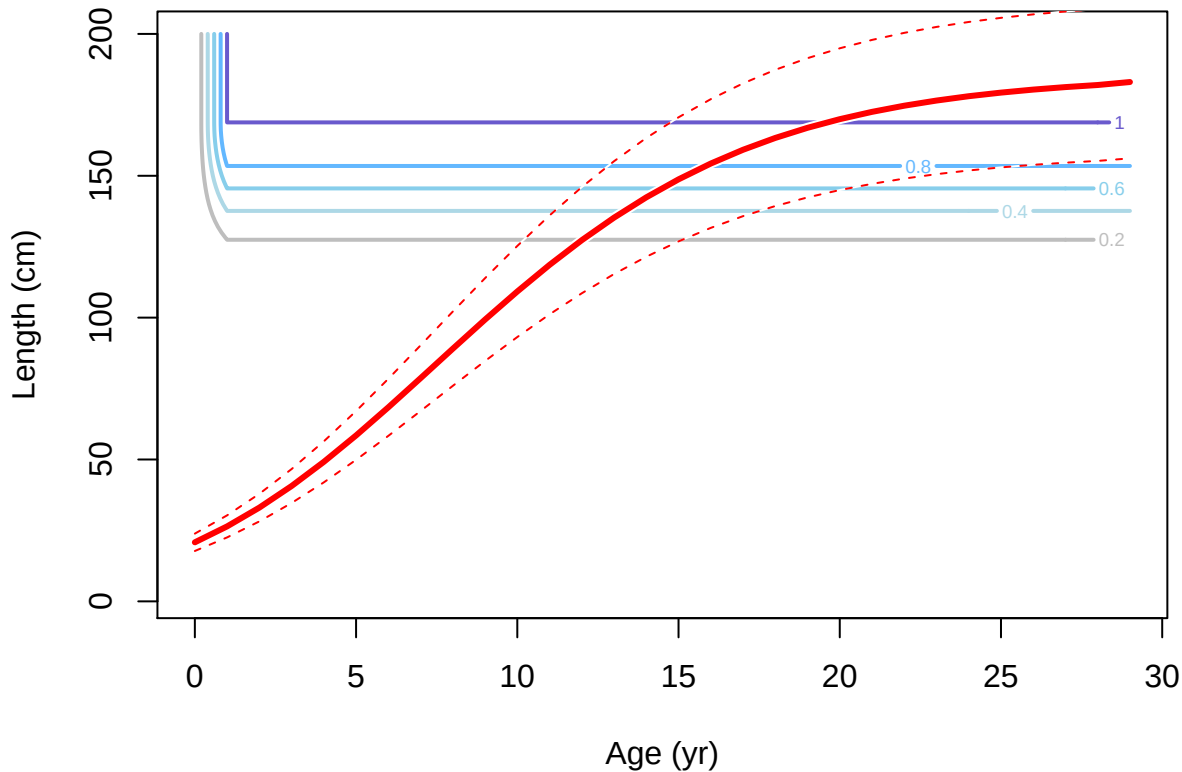
Female ending year selectivity and growth for F38-LL_W_Q23w



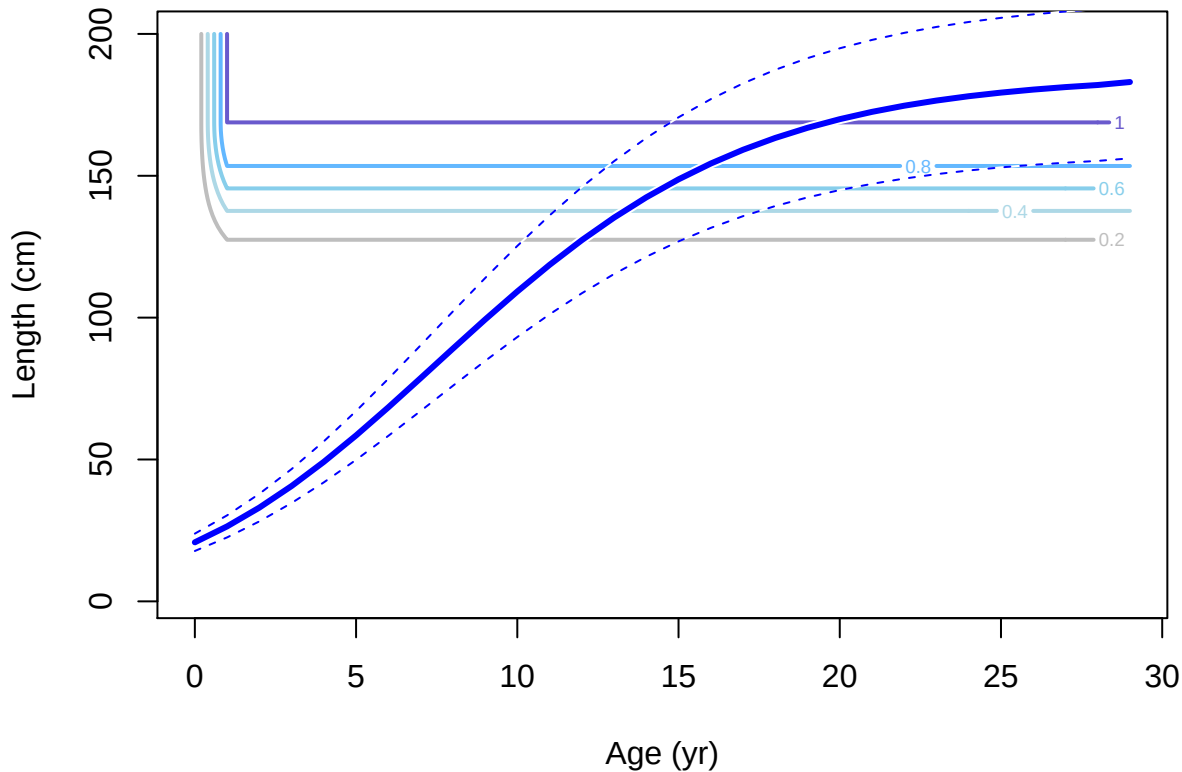
Male ending year selectivity and growth for F38-LL_W_Q23w



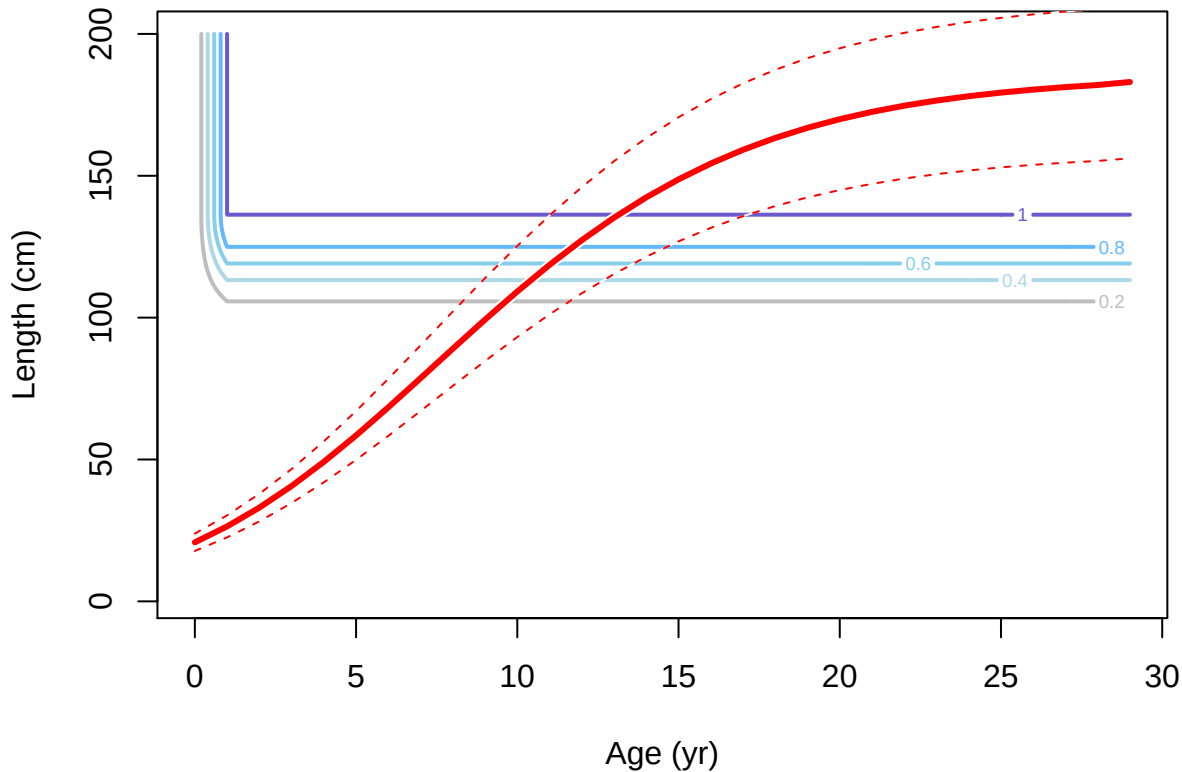
Female ending year selectivity and growth for F39-LL_C_Q23w



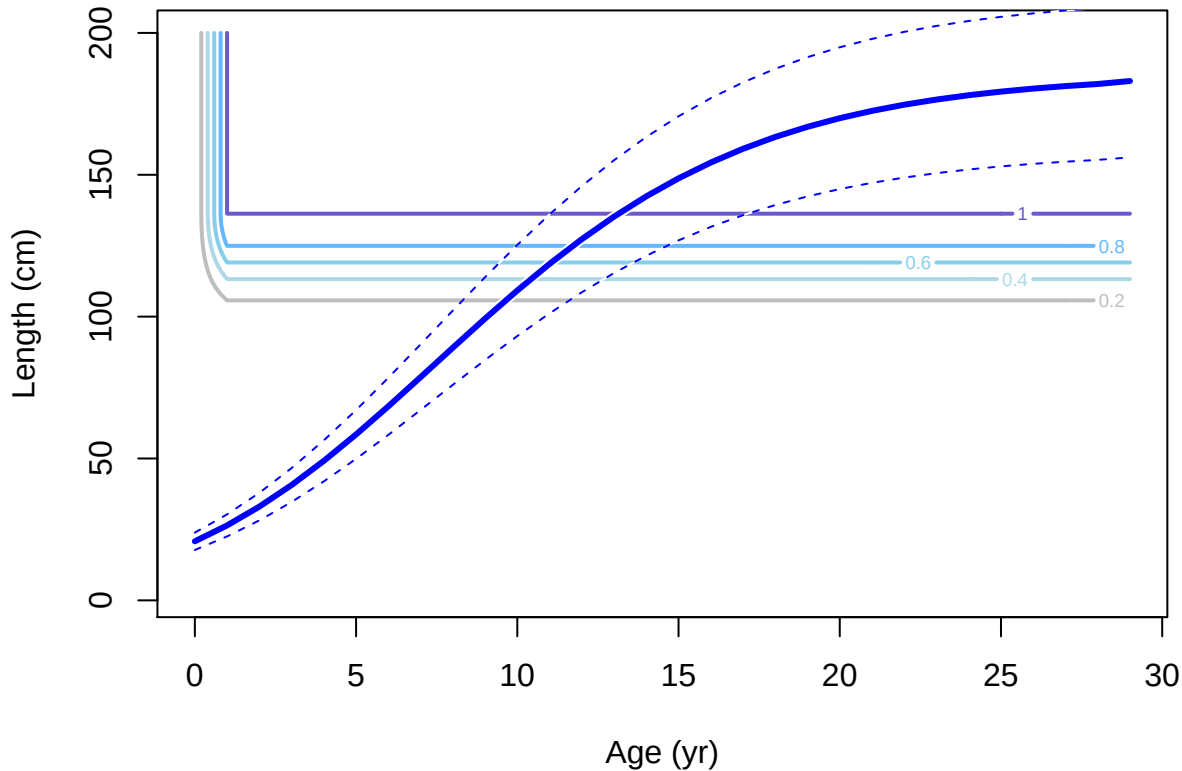
Male ending year selectivity and growth for F39-LL_C_Q23w



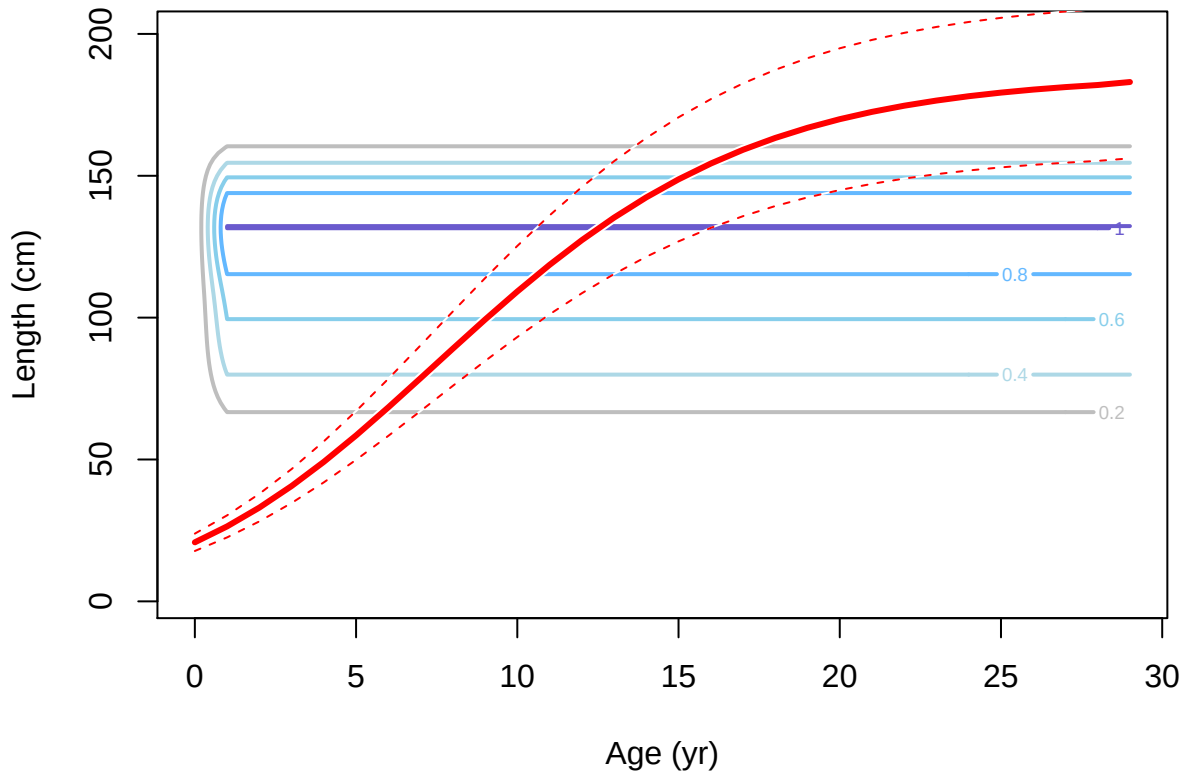
Female ending year selectivity and growth for F40-LL_E_Q23w



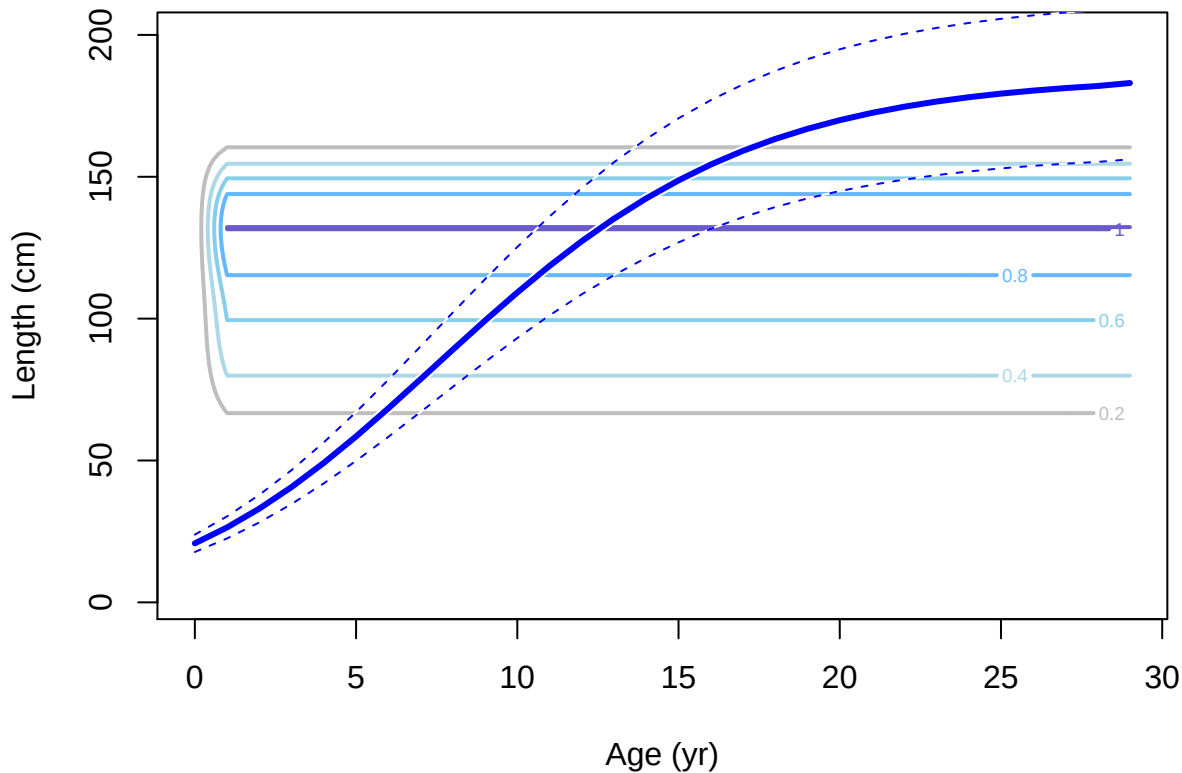
Male ending year selectivity and growth for F40-LL_E_Q23w



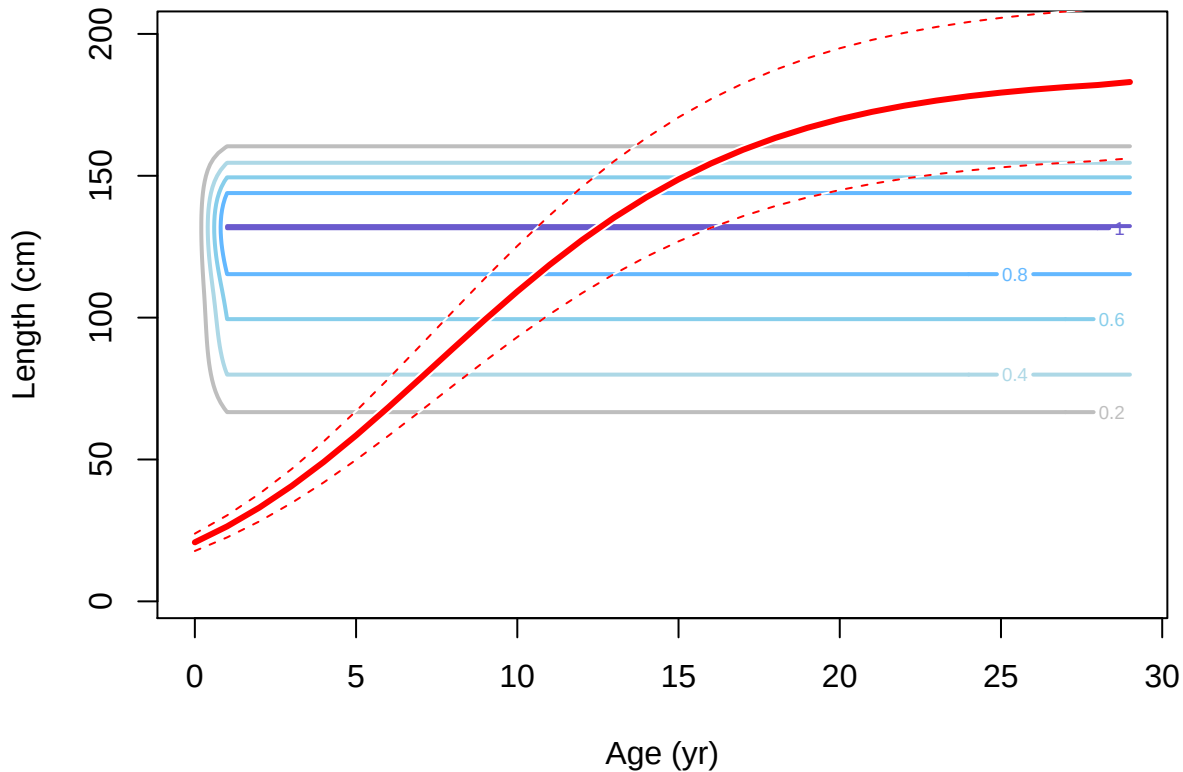
Female ending year selectivity and growth for S1-PS_DEL_VAST



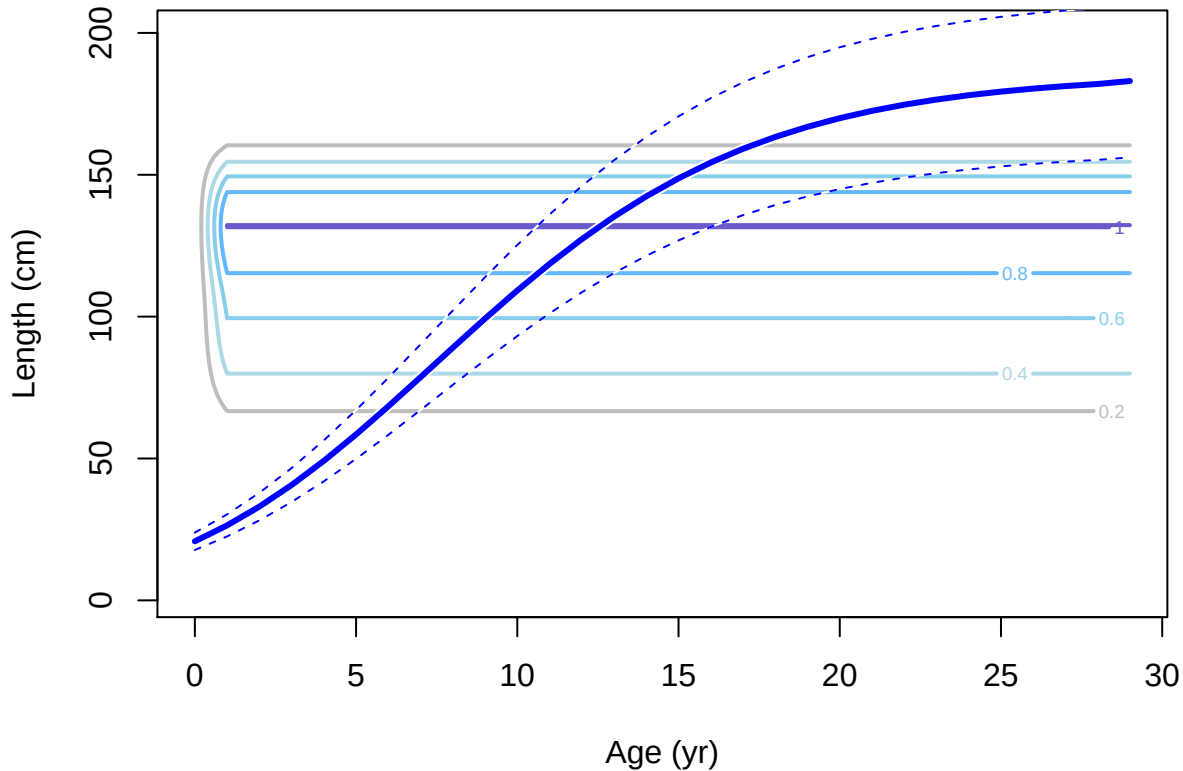
Male ending year selectivity and growth for S1-PS_DEL_VAST



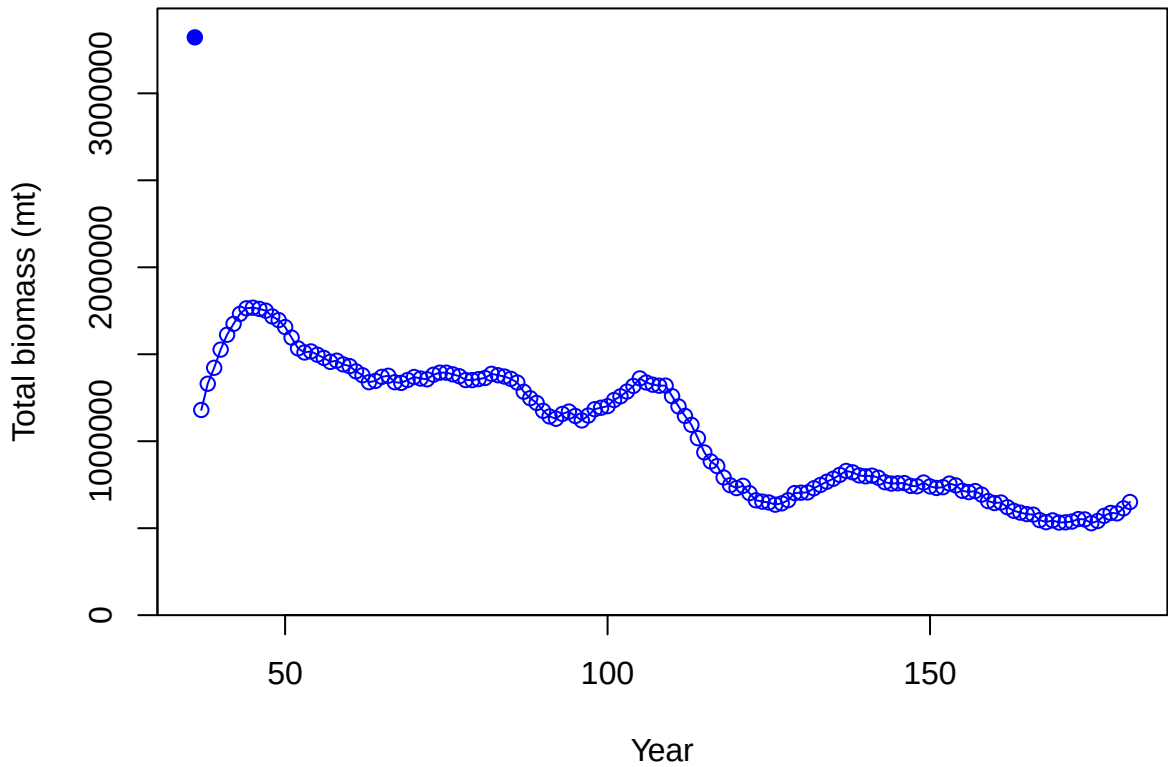
Female ending year selectivity and growth for S4-PS_middle_VAST



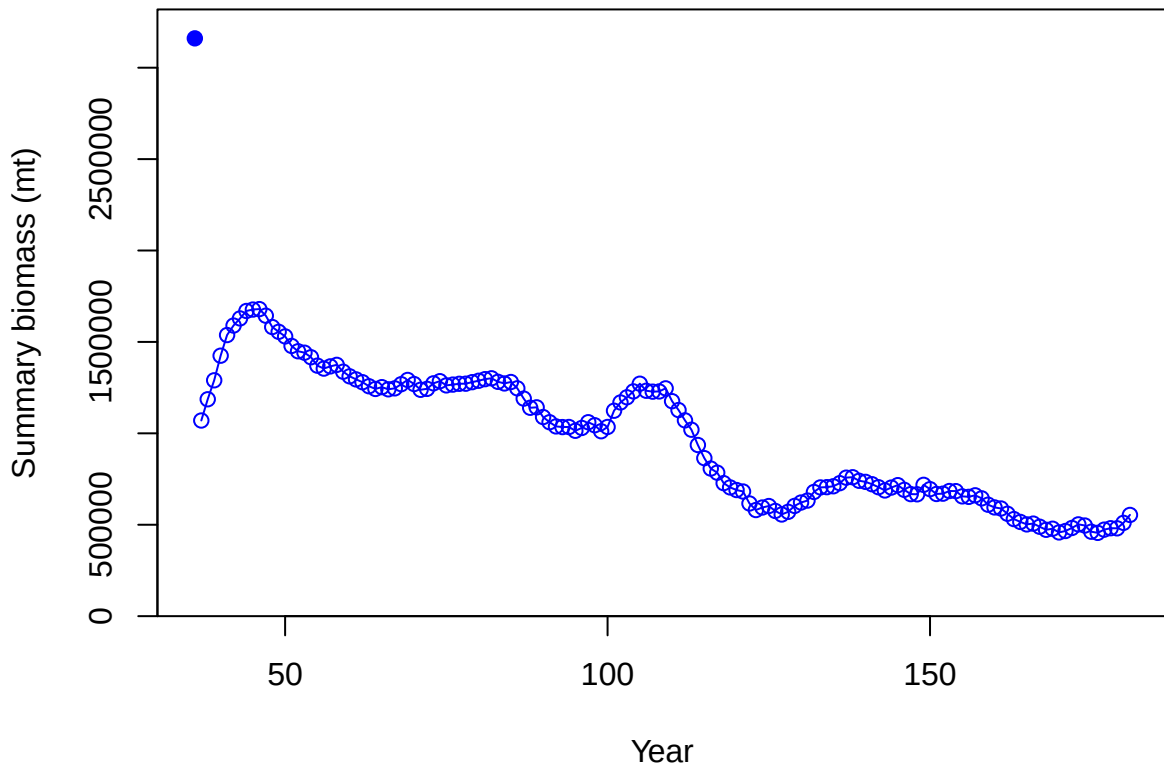
Male ending year selectivity and growth for S4-PS_middle_VAST



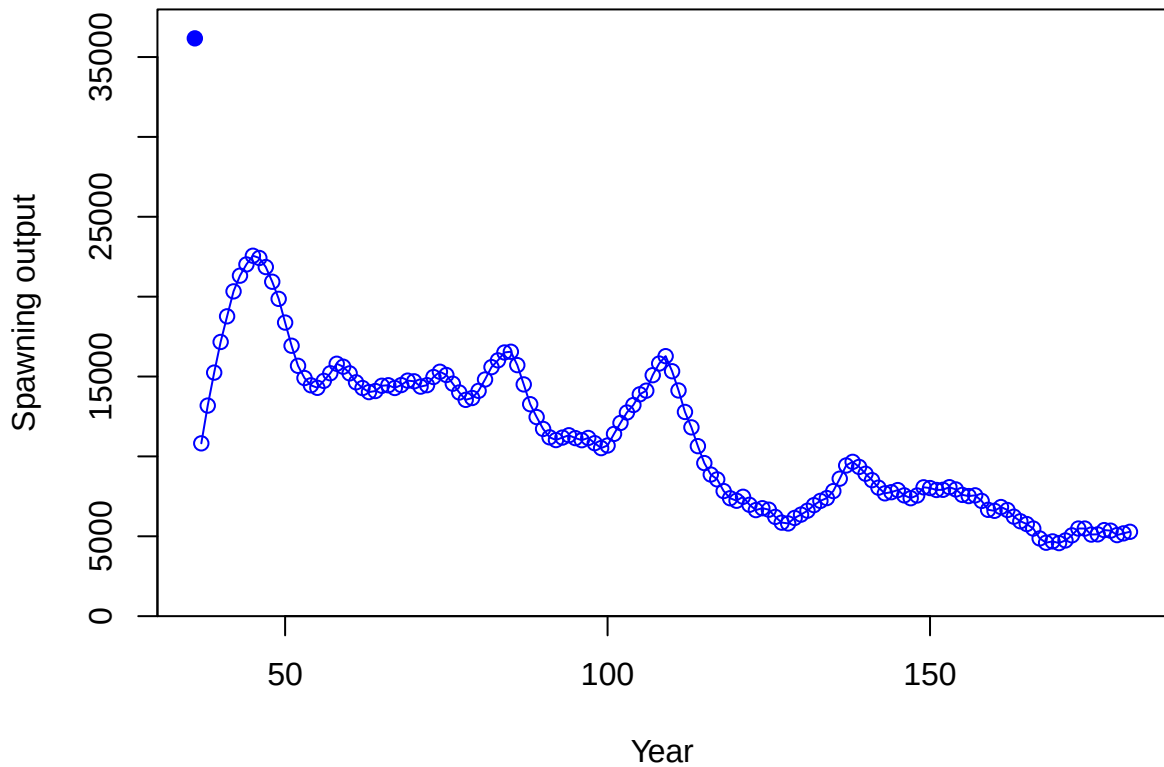
Total biomass (mt)



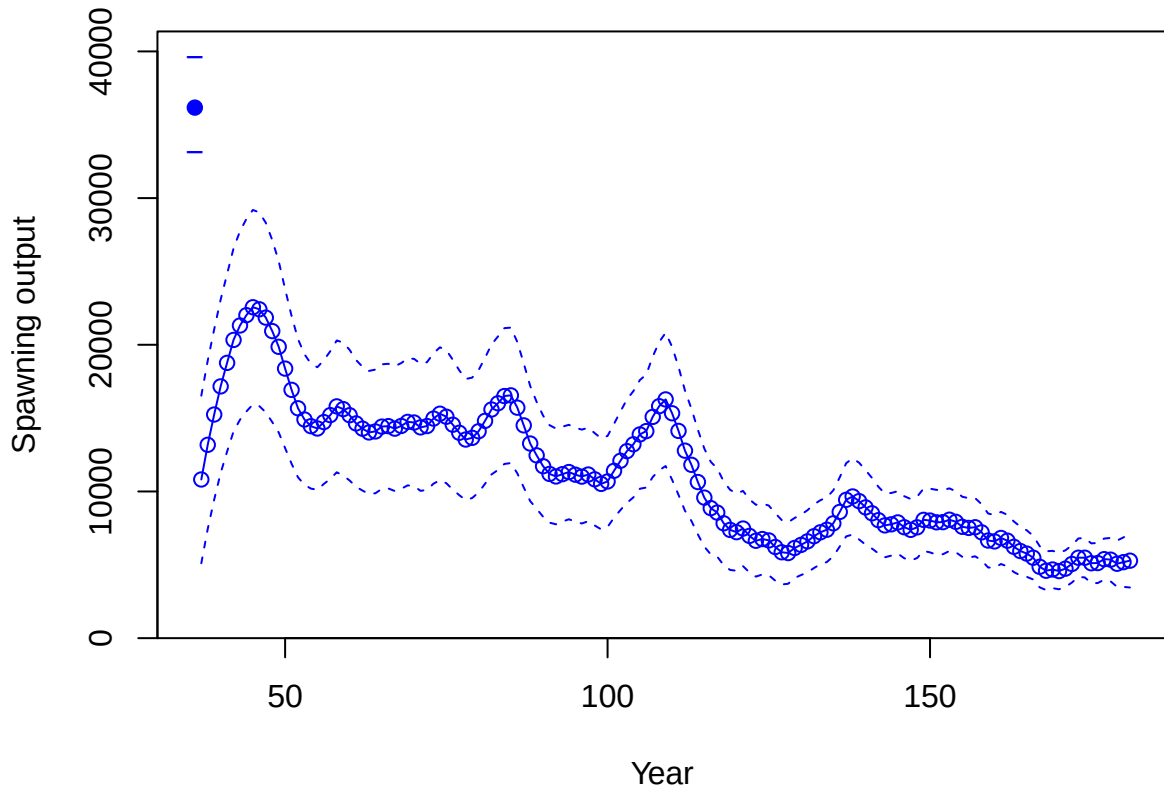
Summary biomass (mt)



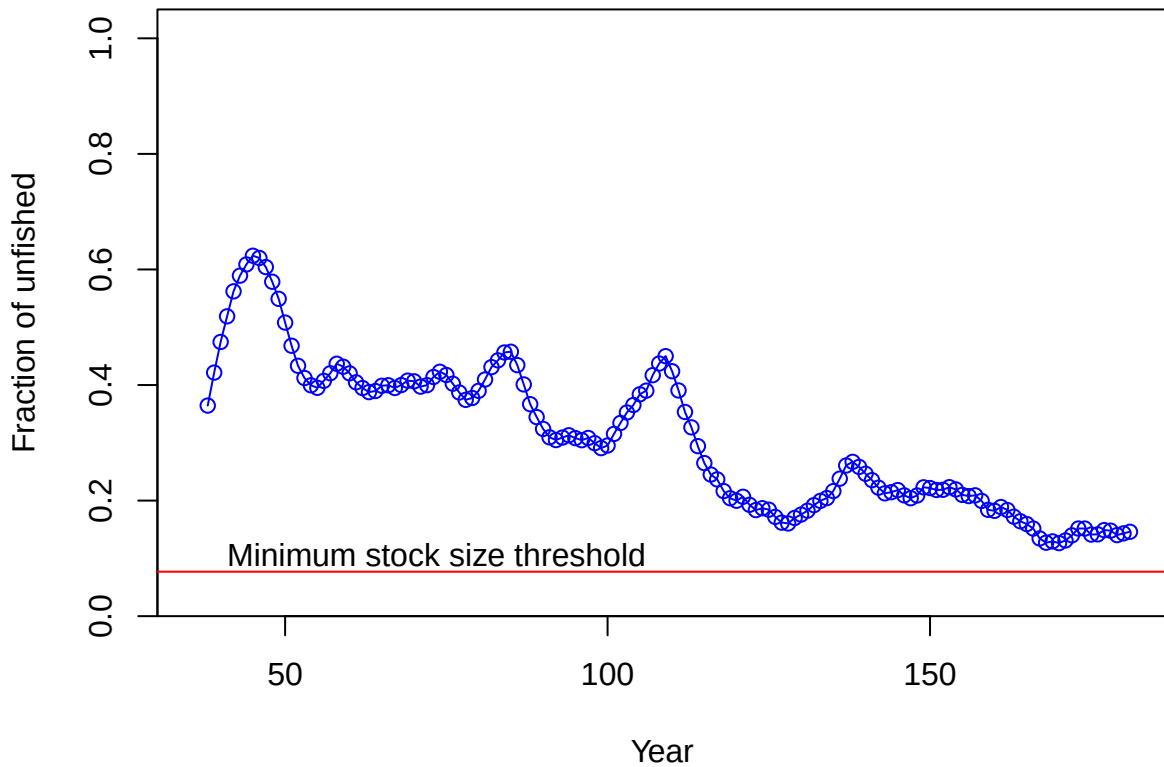
Spawning output



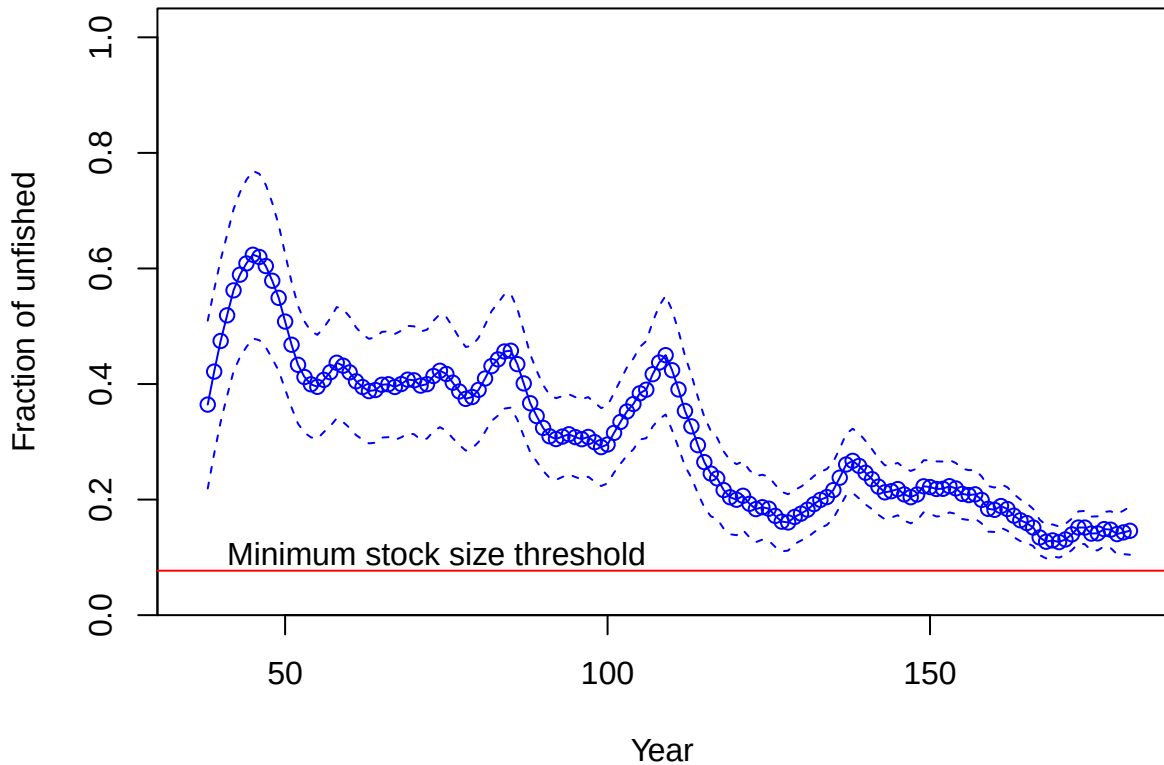
Spawning output with ~95% asymptotic intervals



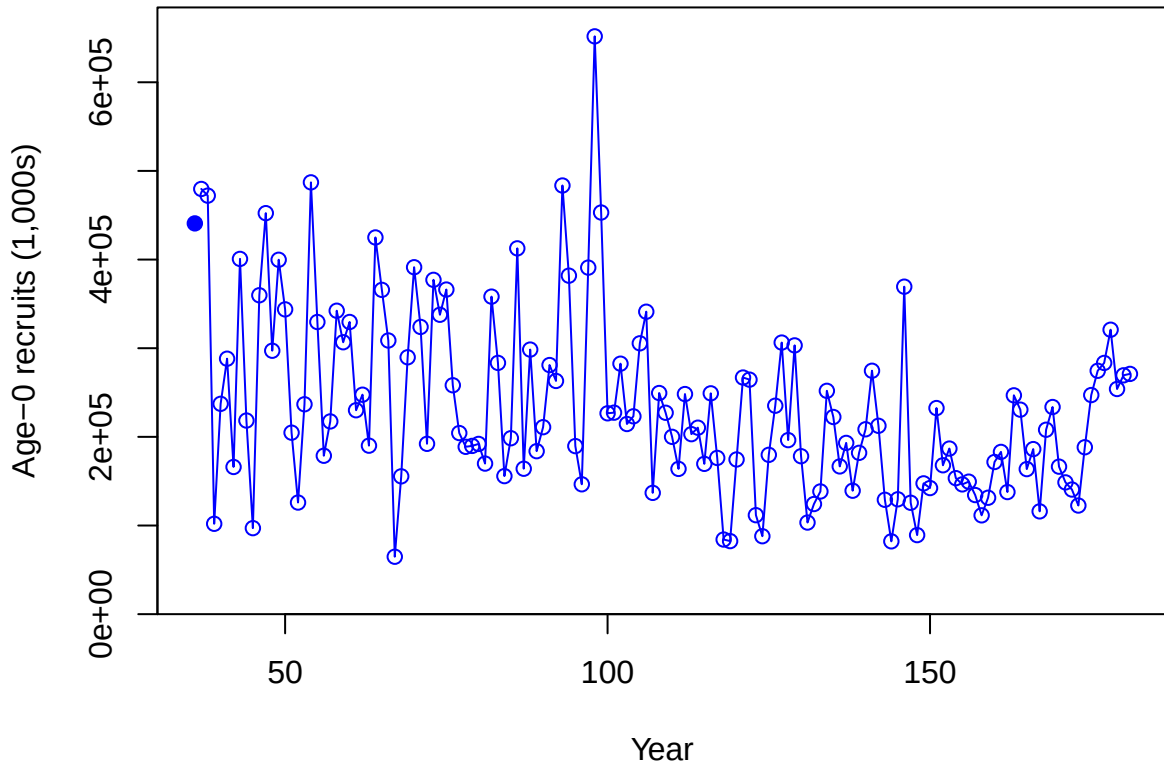
Fraction of unfished



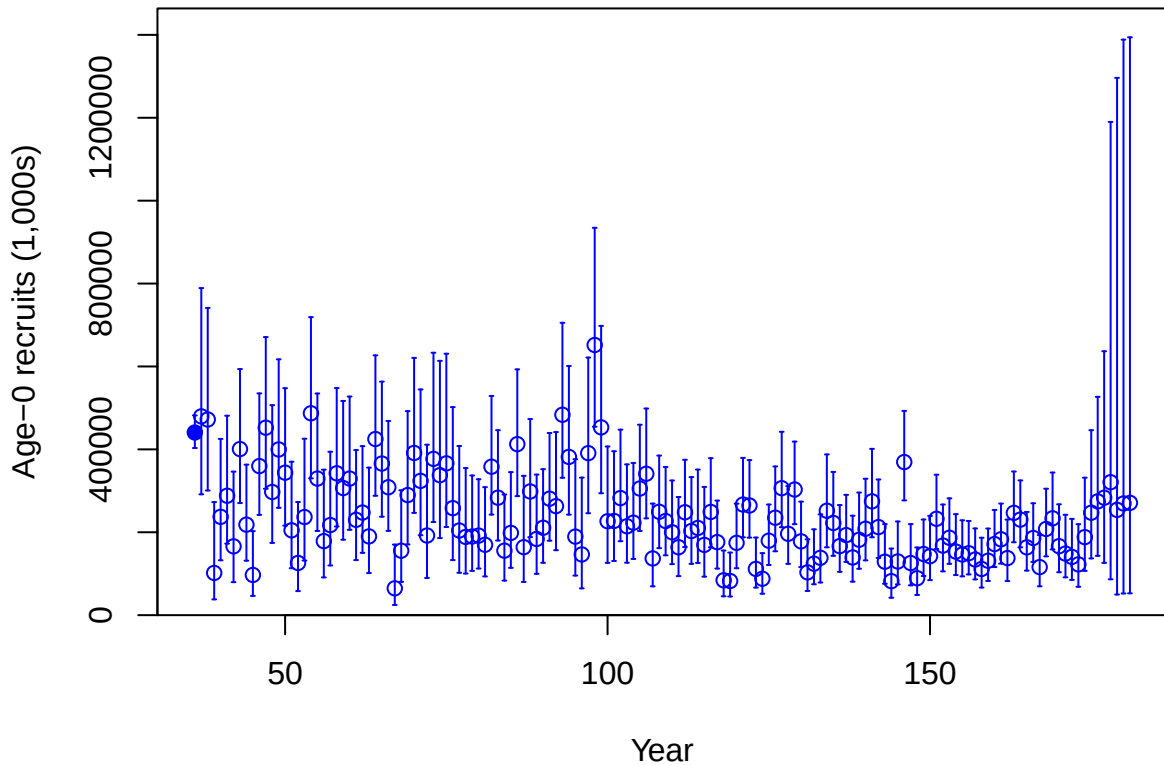
Fraction of unfished with ~95% asymptotic intervals



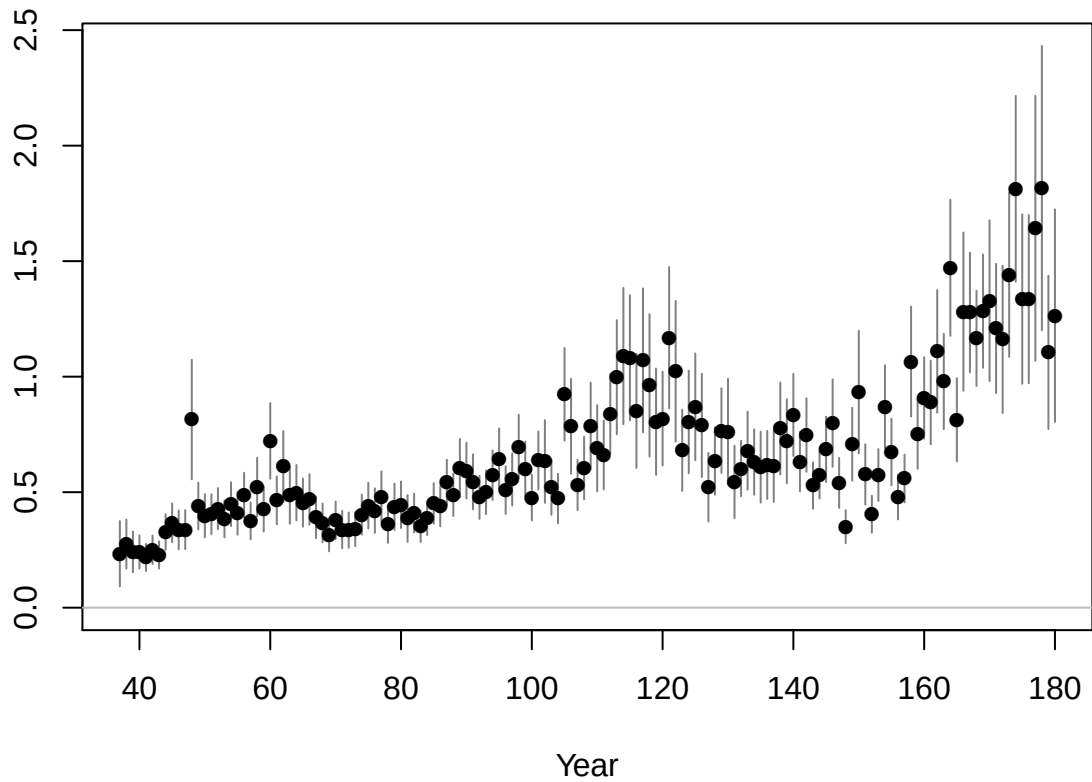
Age-0 recruits (1,000s)

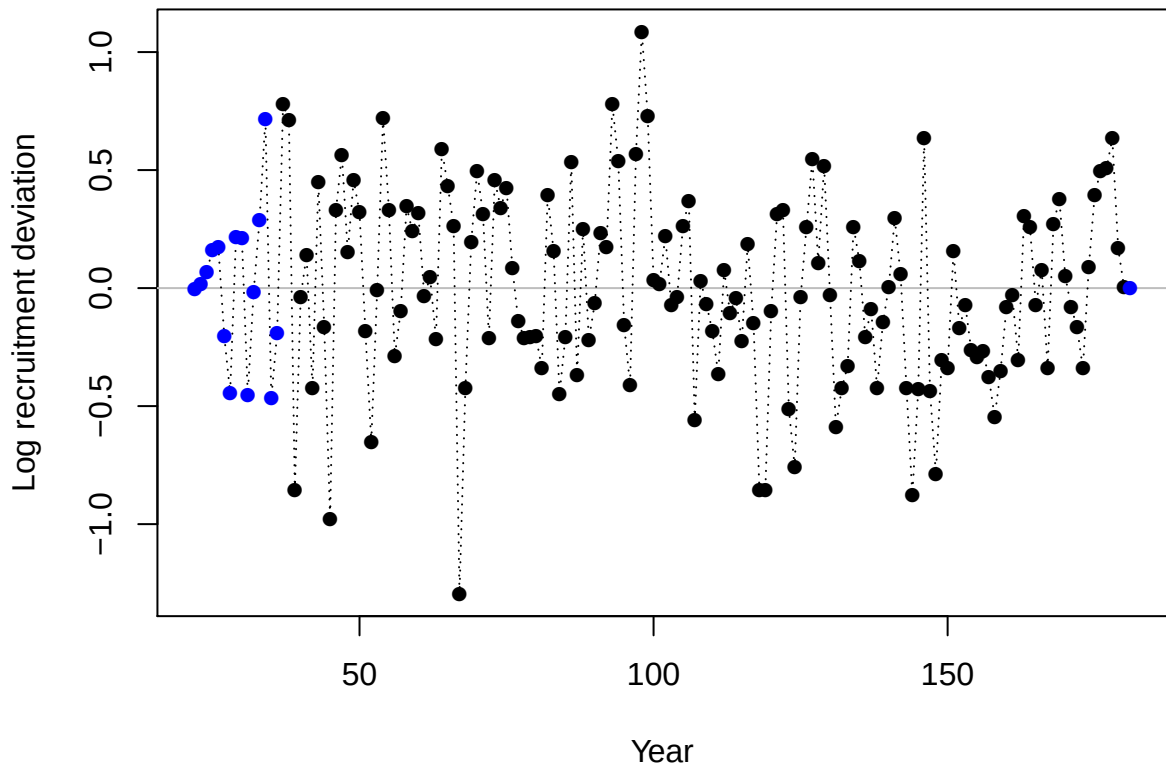


Age-0 recruits (1,000s) with ~95% asymptotic intervals

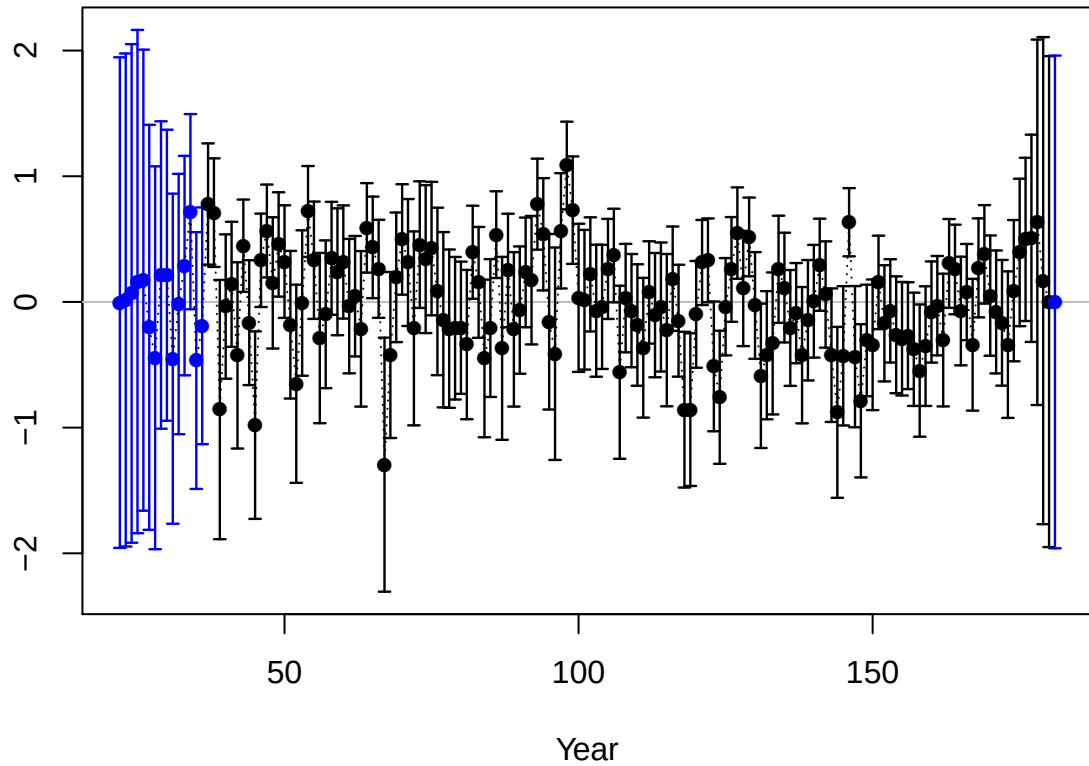


Summary Fishing Mortality

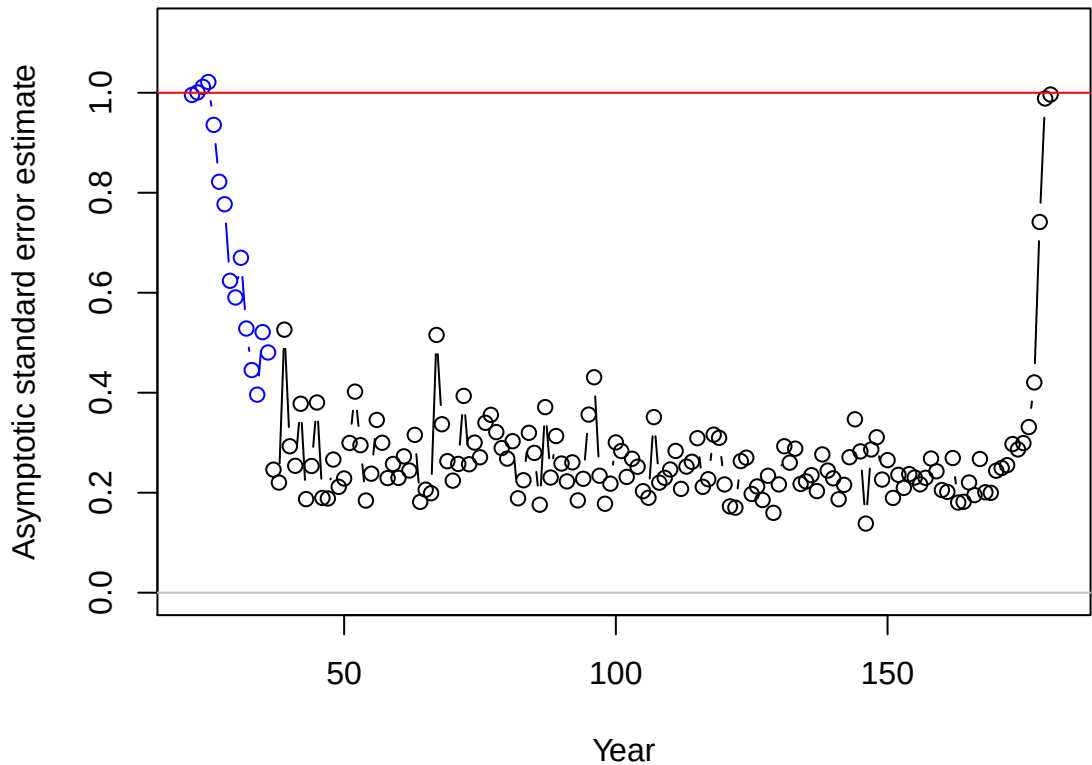


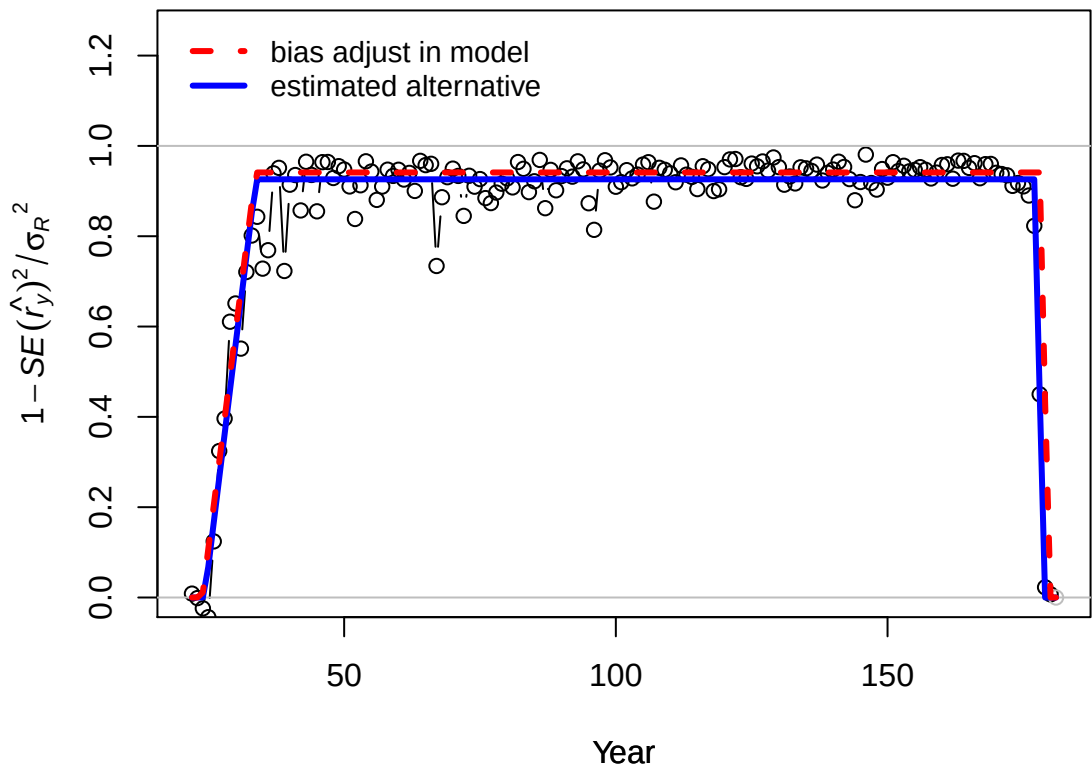


Log recruitment deviation

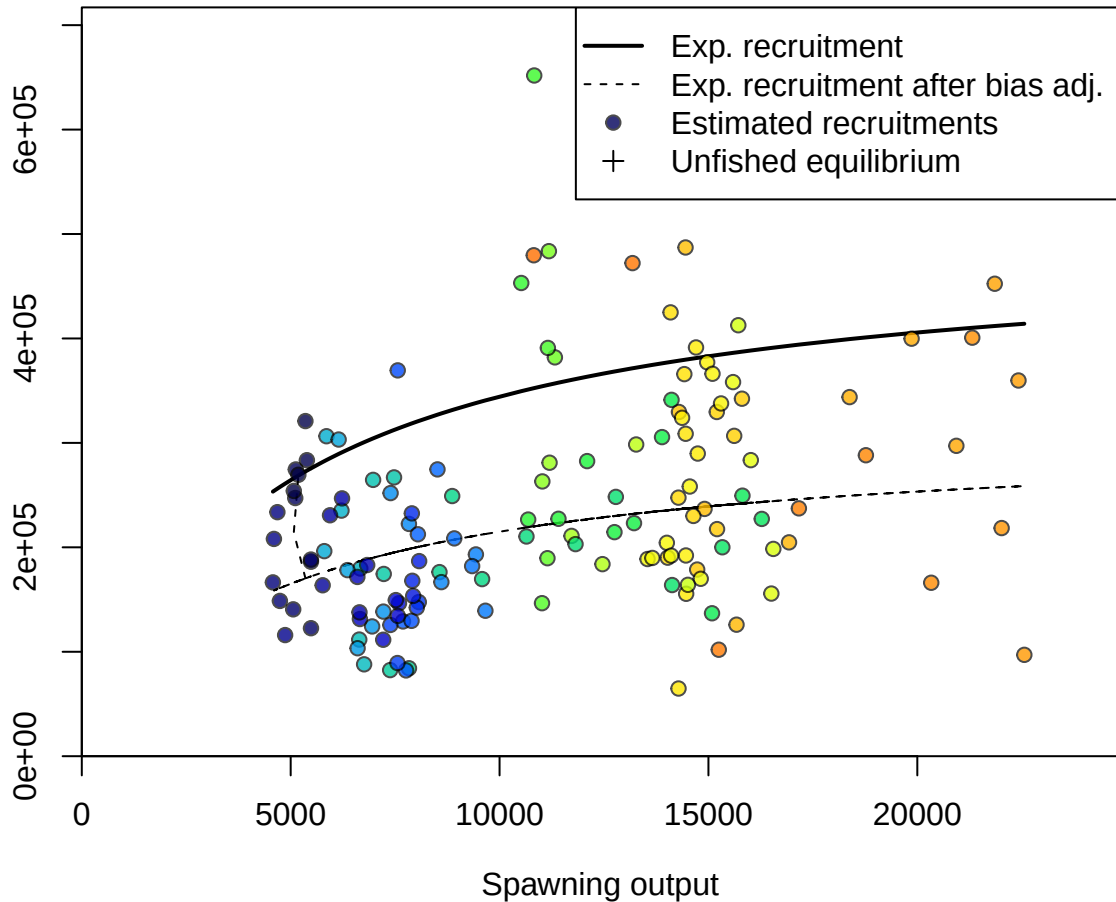


Recruitment deviation variance





Recruitment (1,000s)



Log recruitment deviation

1.0
0.5
0.0
-0.5
-1.0

0.0

0.1

0.2

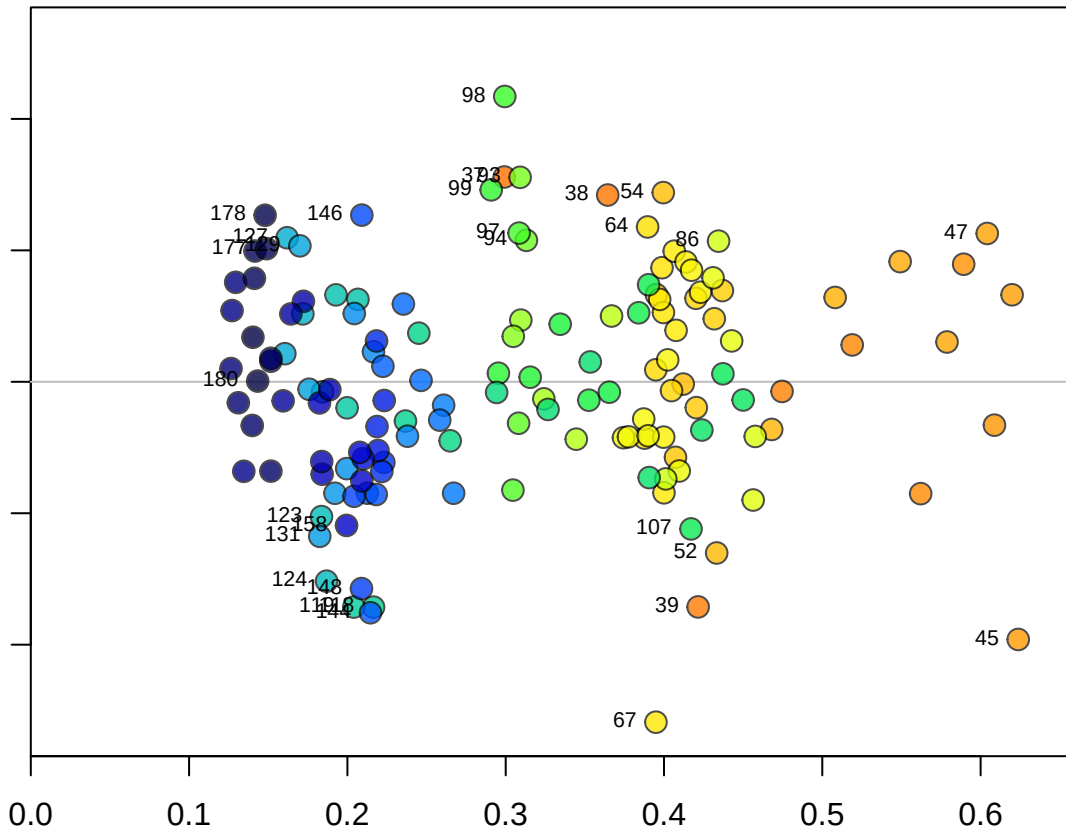
0.3

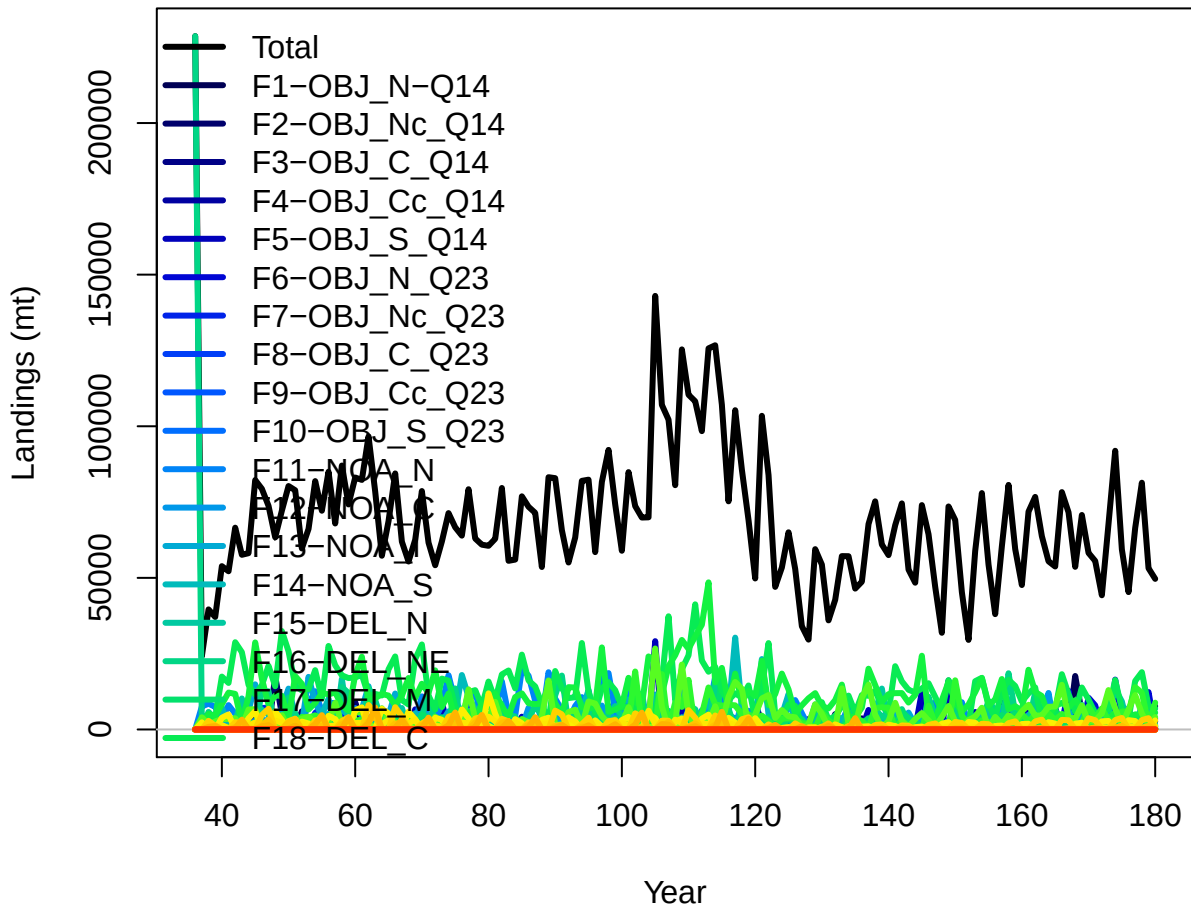
0.4

0.5

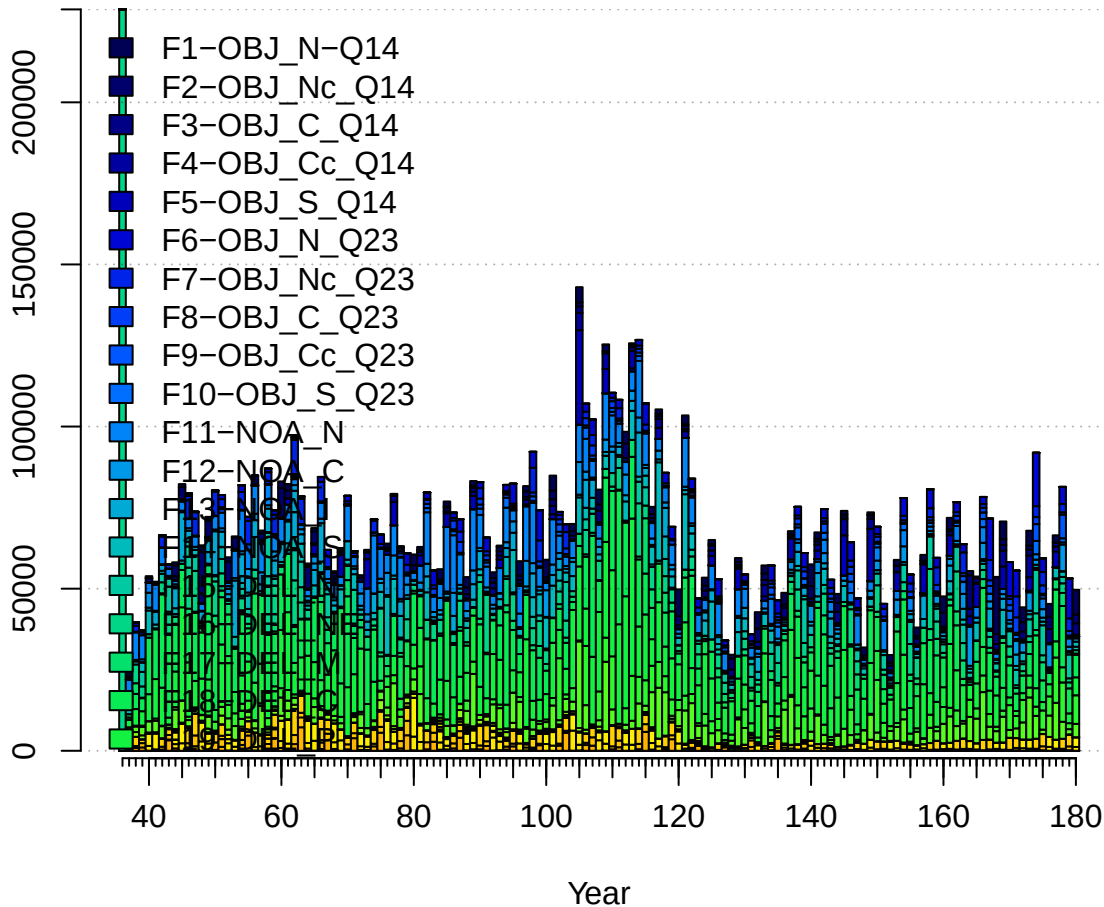
0.6

Spawning output (relative to B_0)



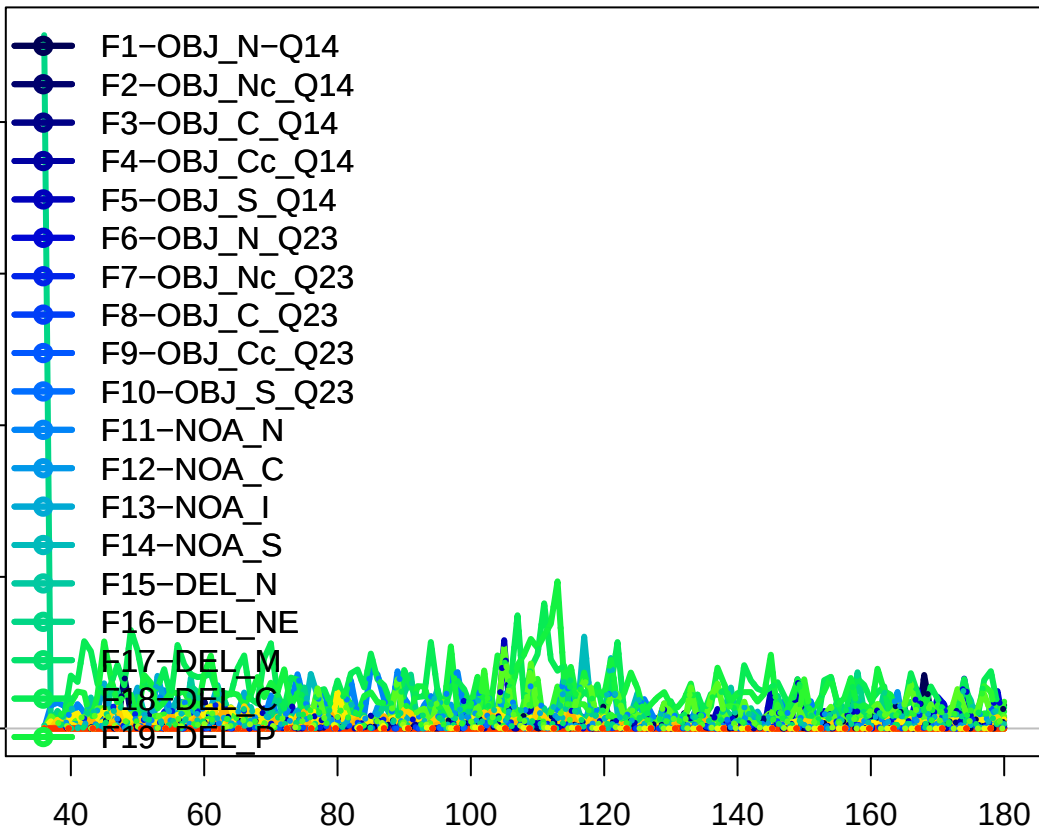


Landings (mt)



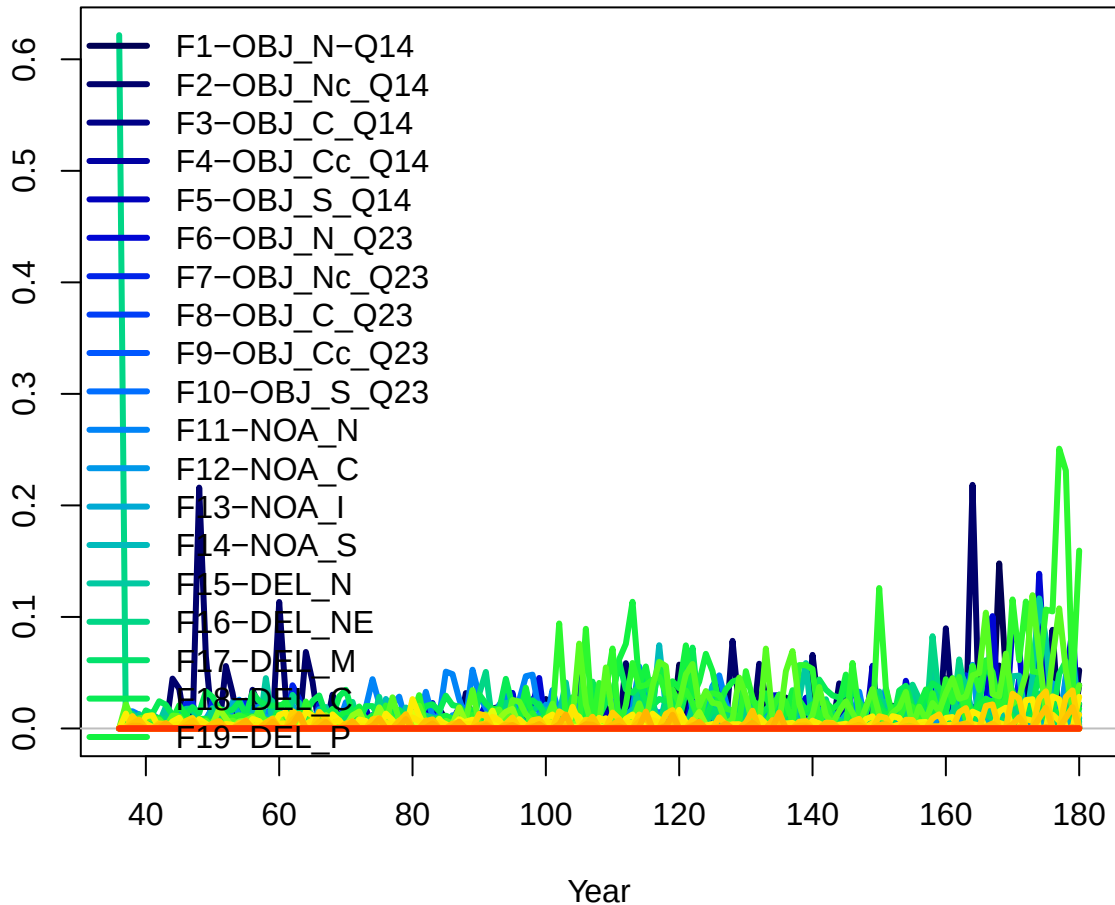
Observed and expected Landings (mt)

200000
150000
100000
50000
0

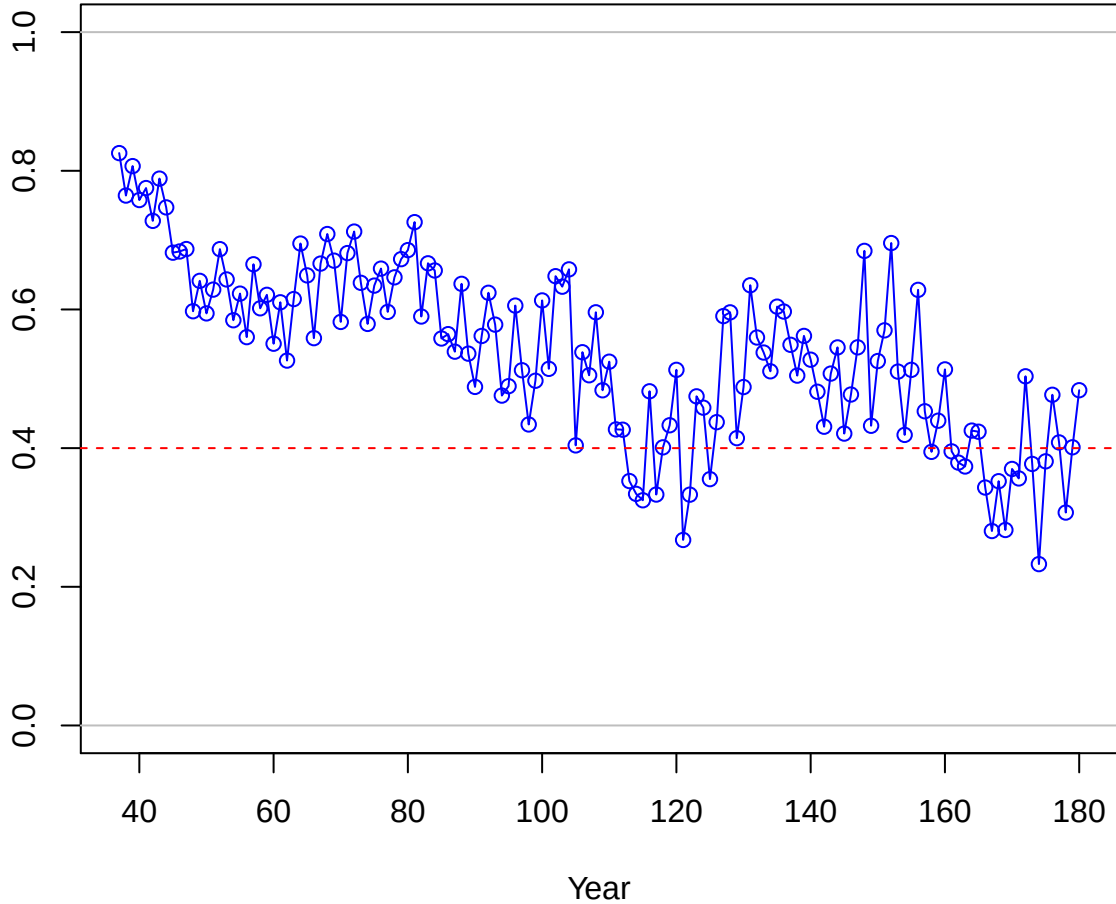


Year

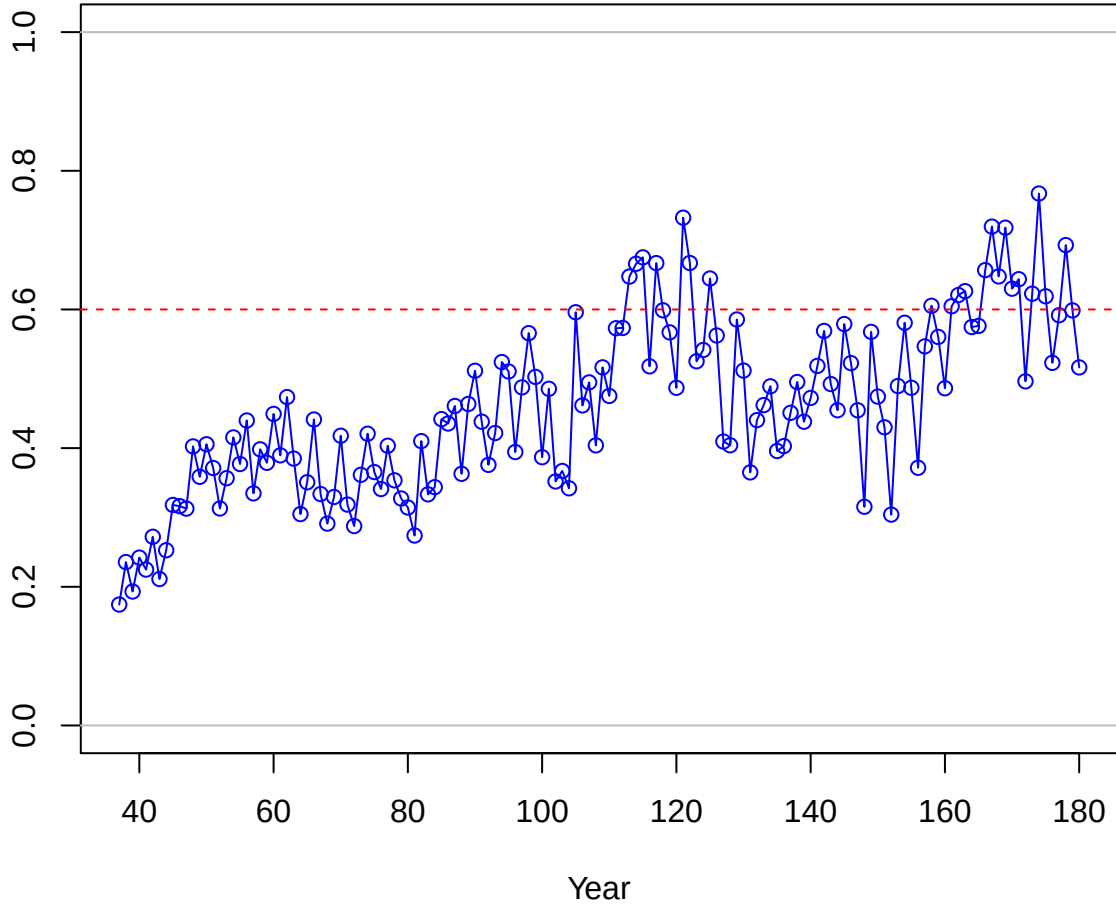
Continuous F

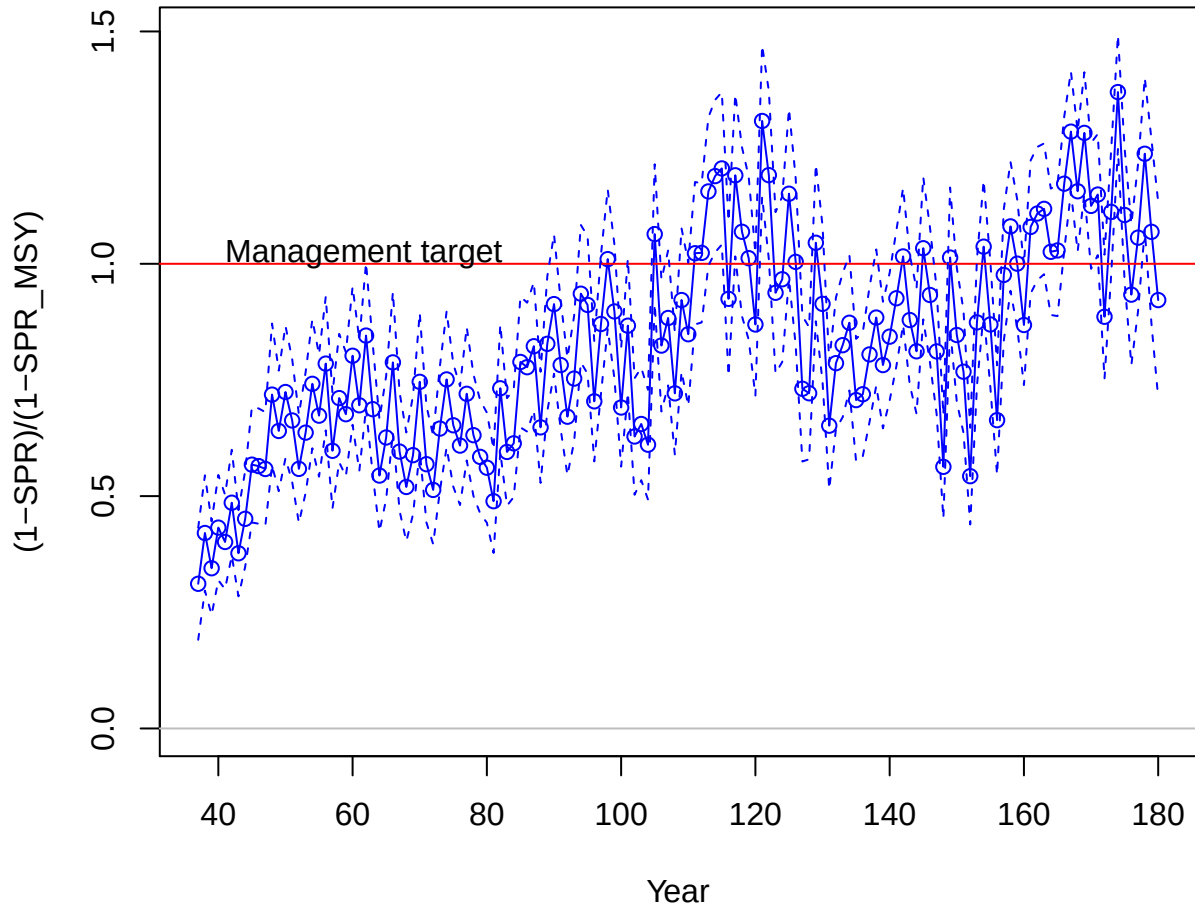


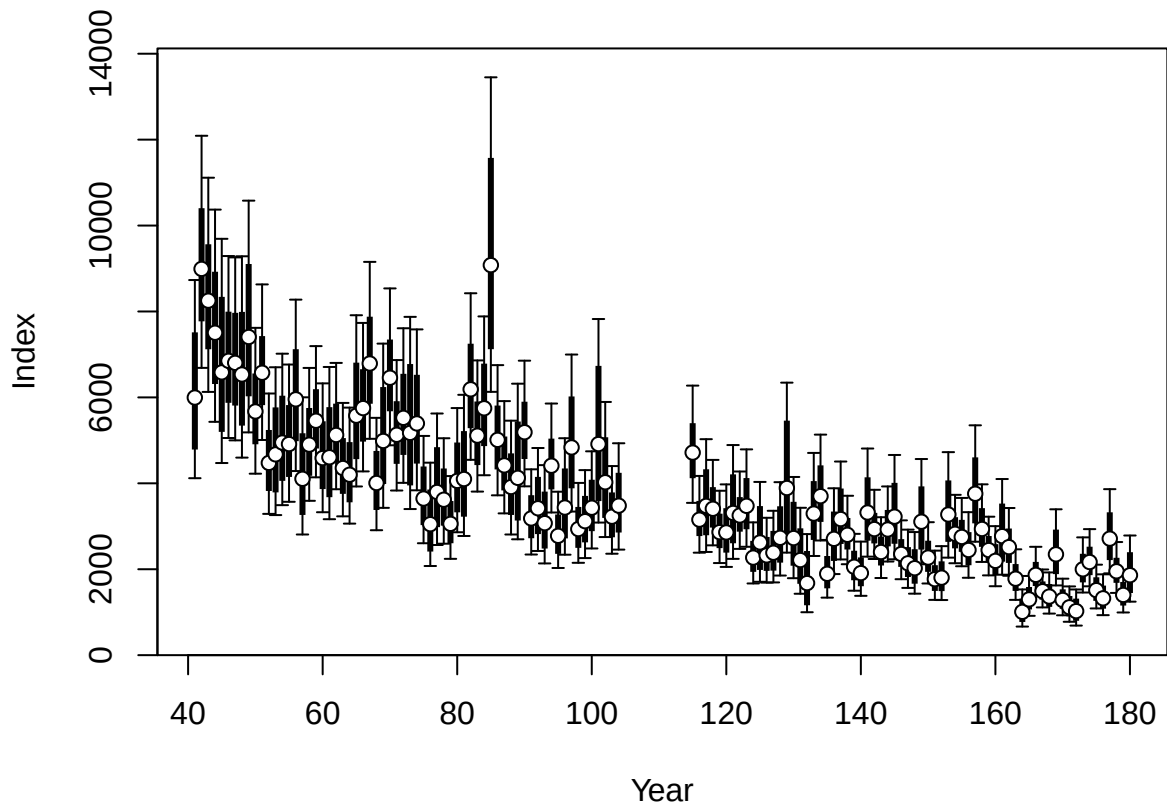
SPR

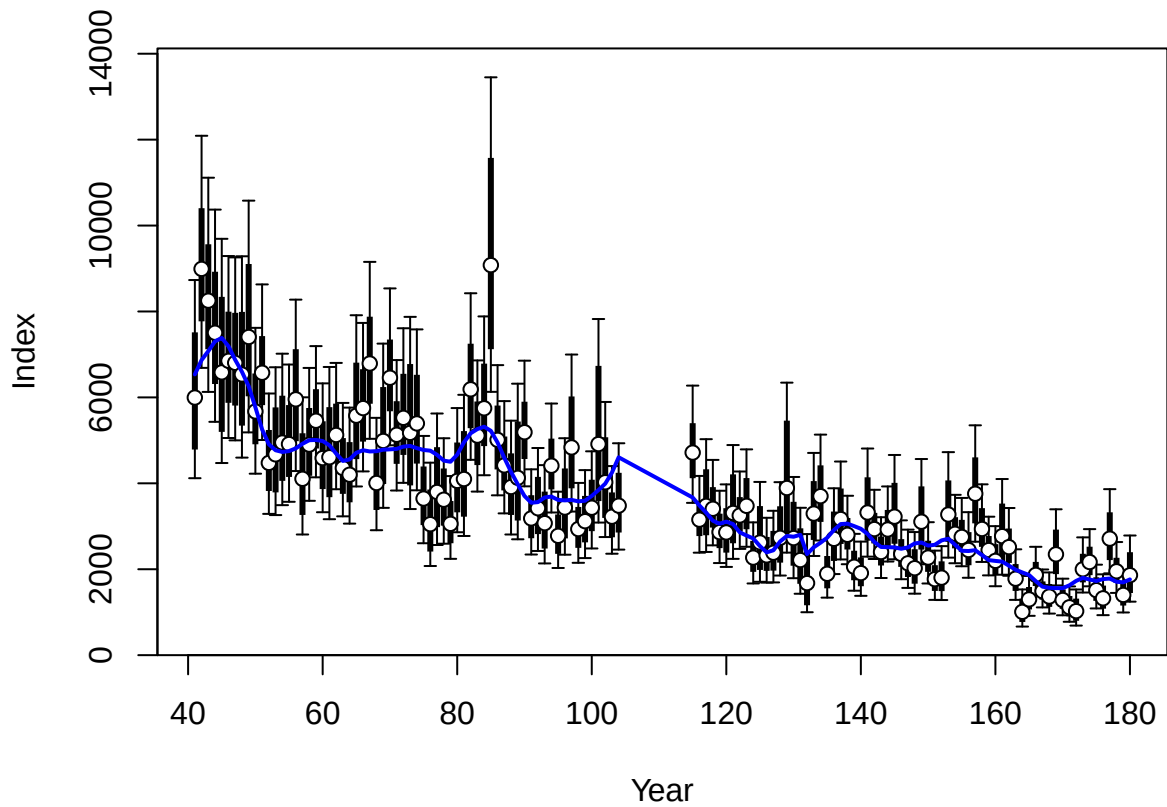


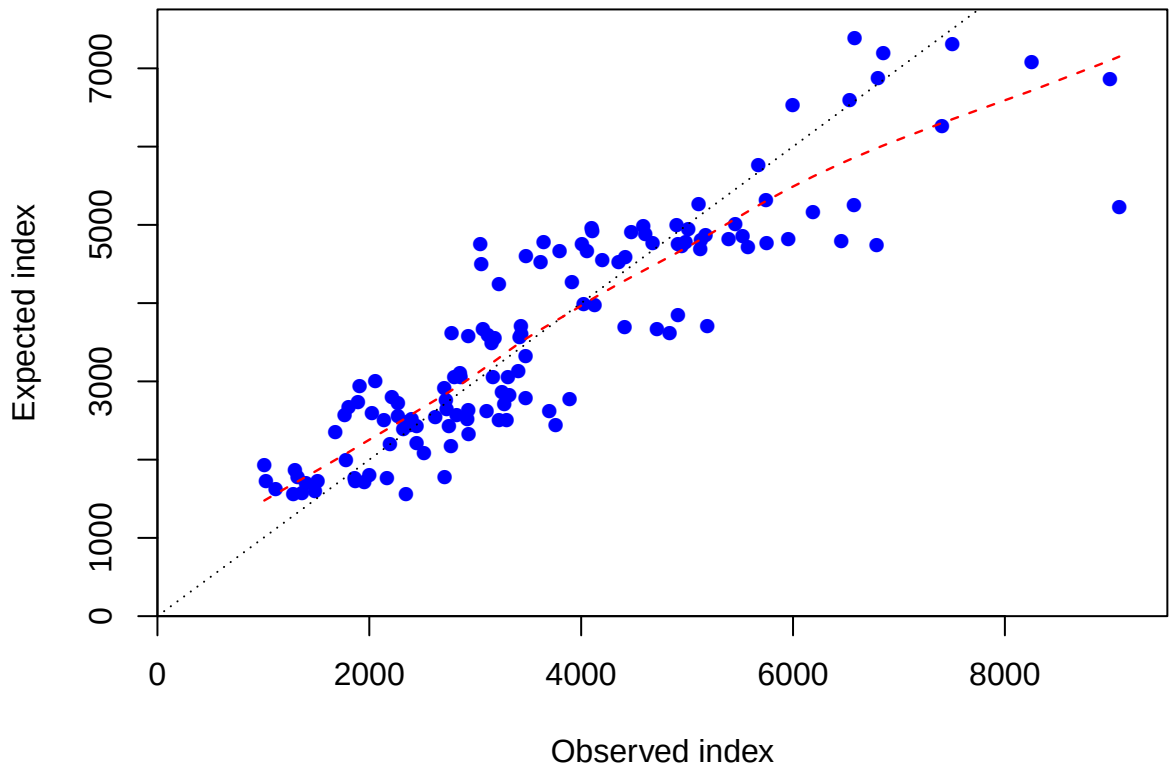
1-SPR

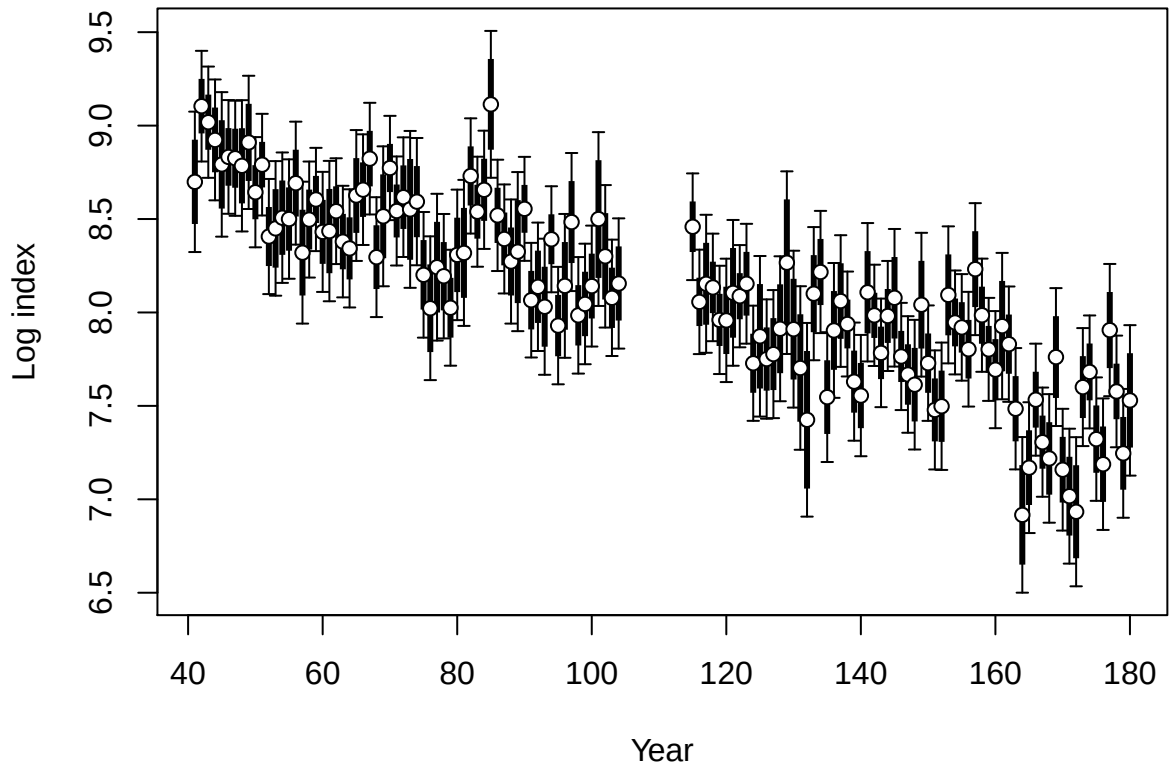


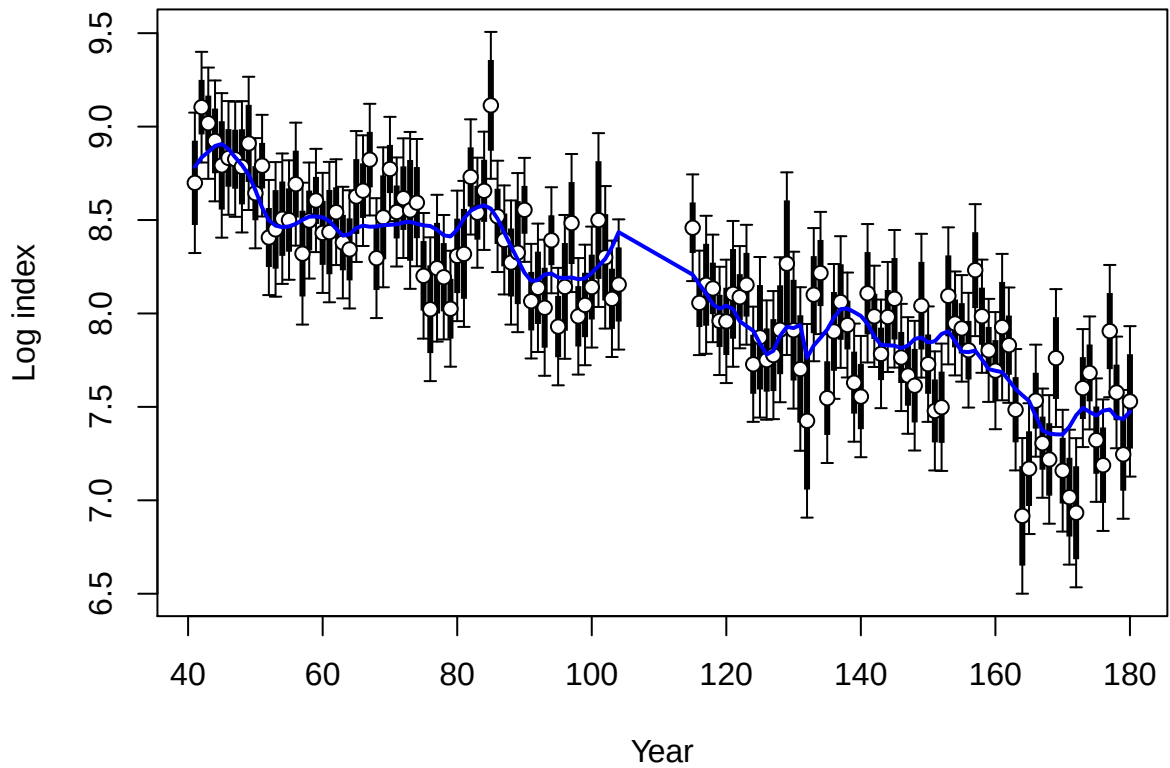


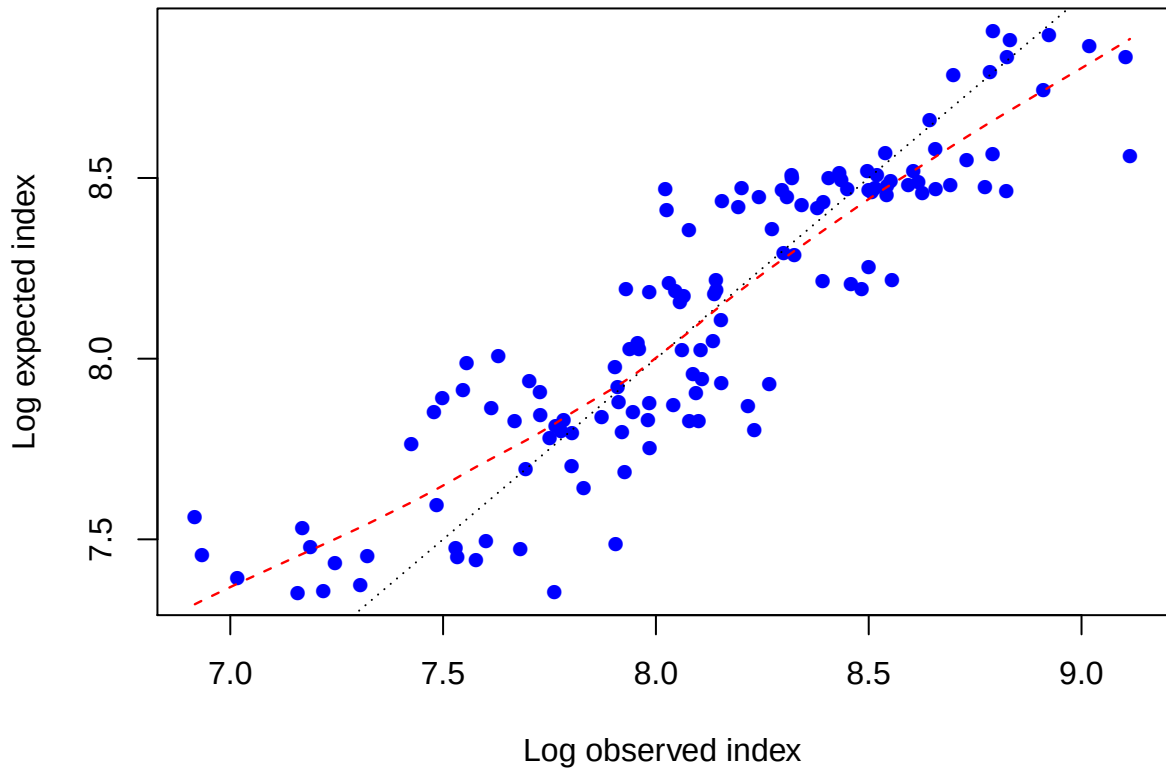


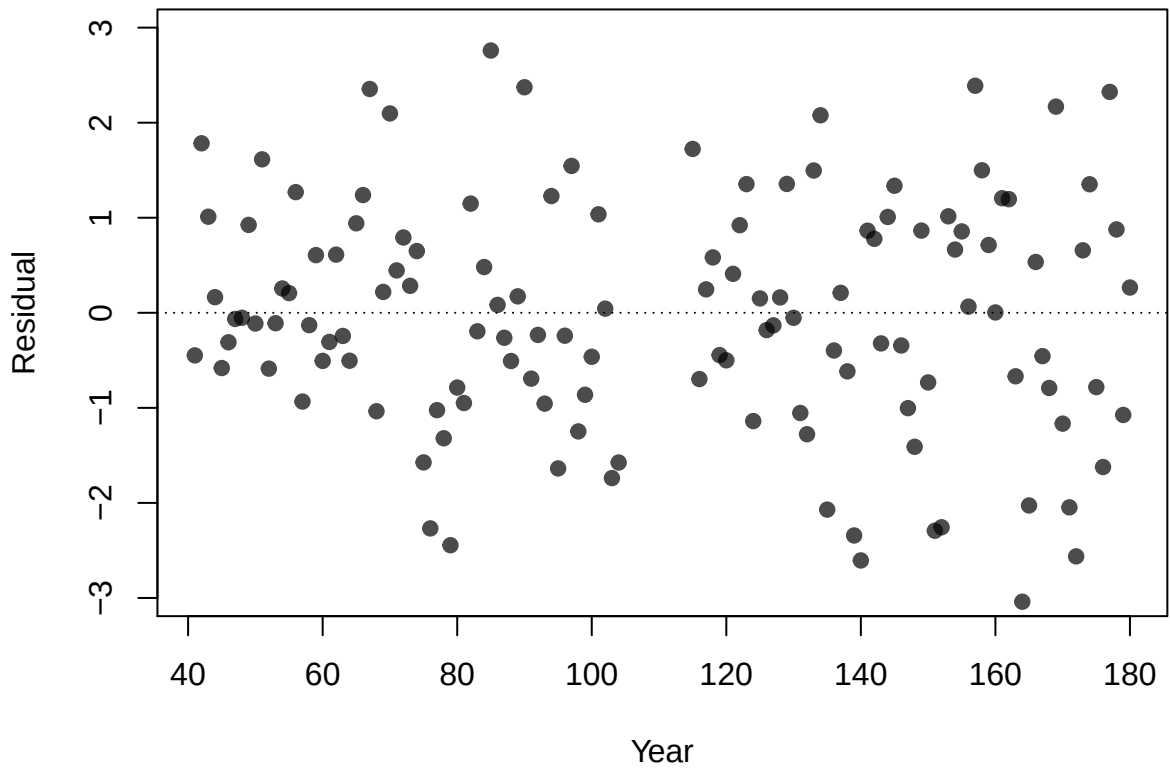


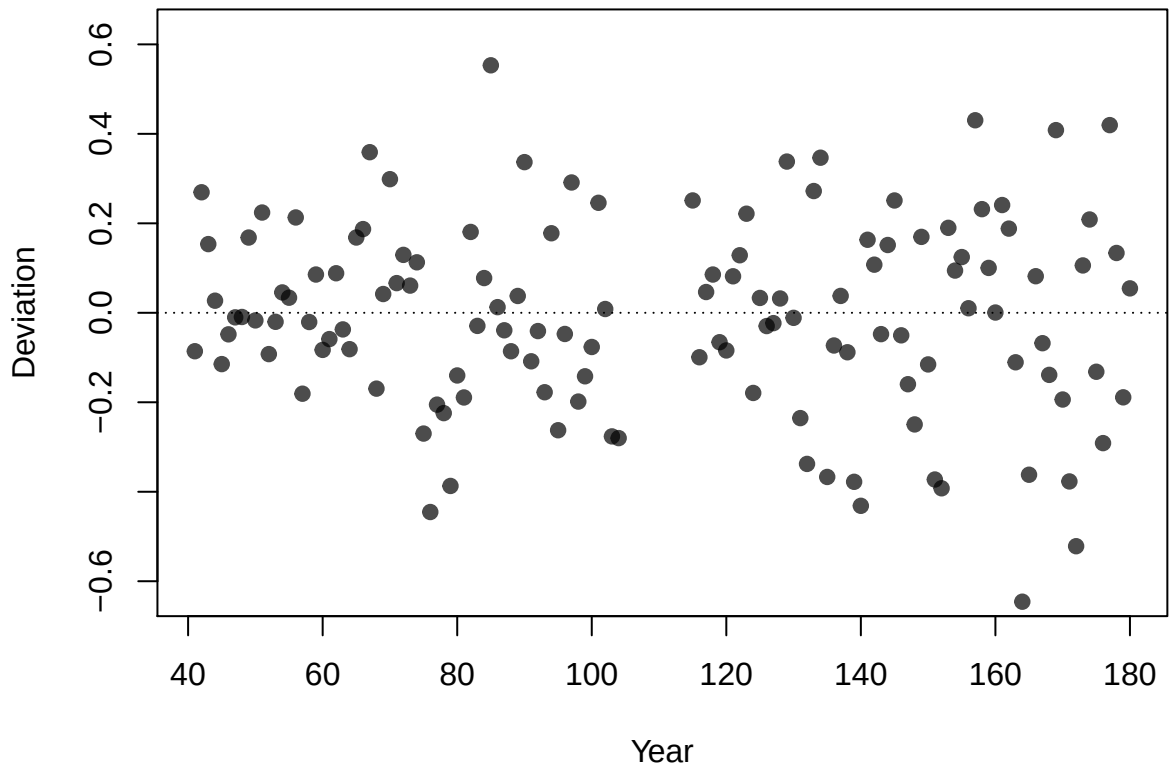


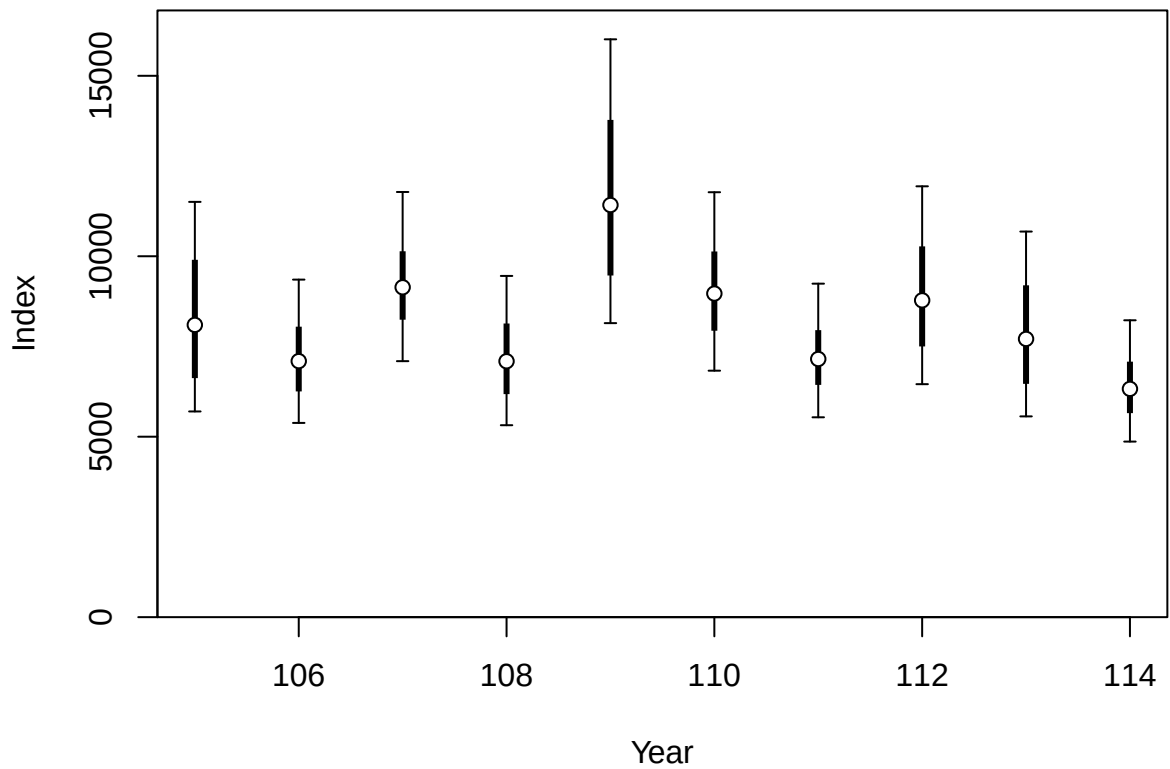


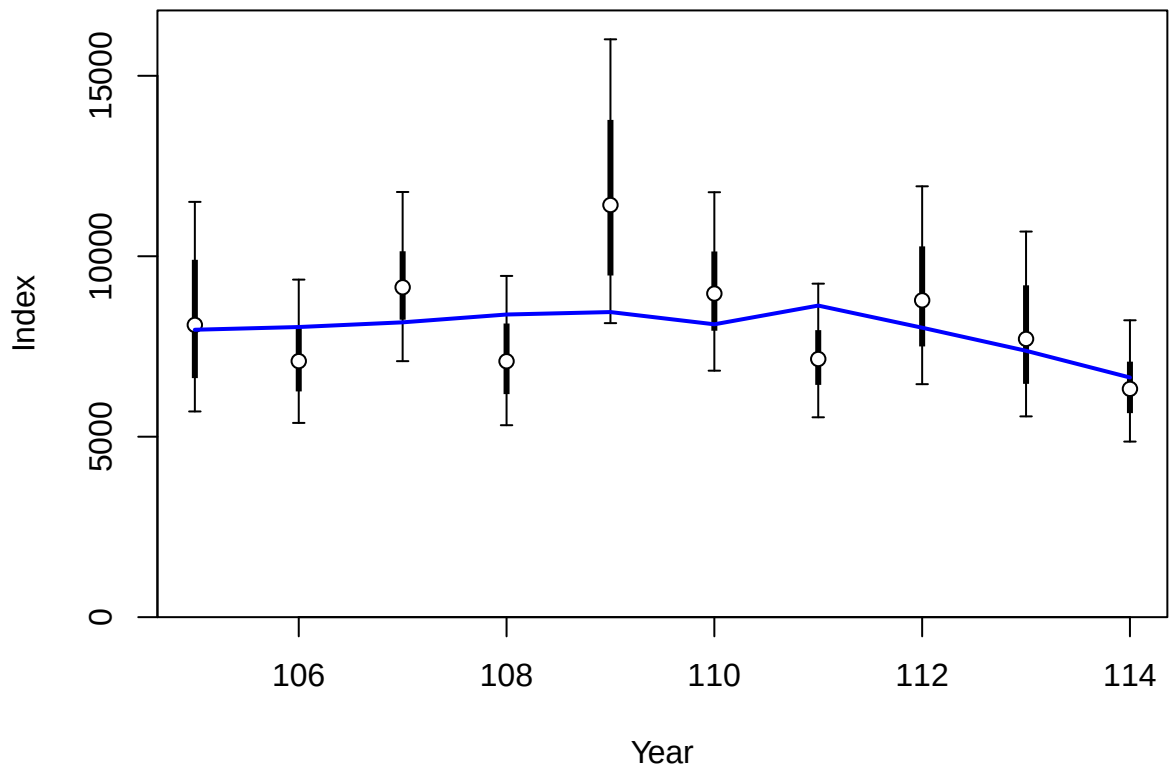


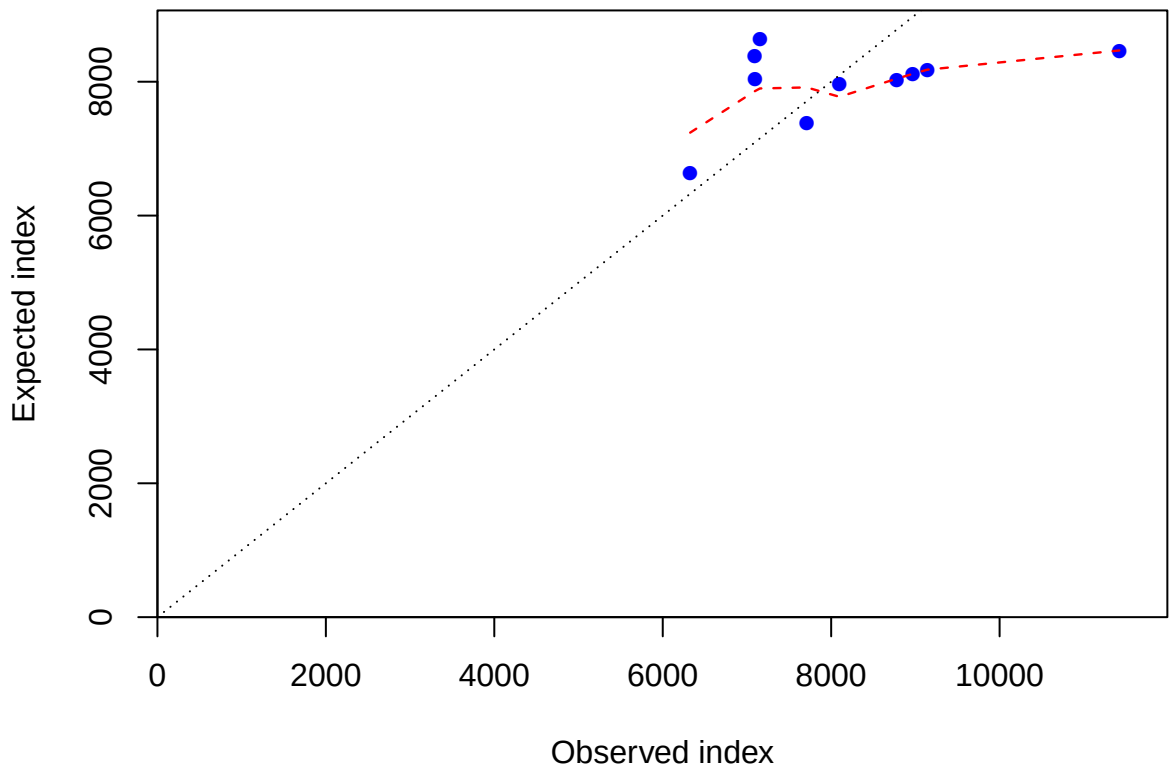


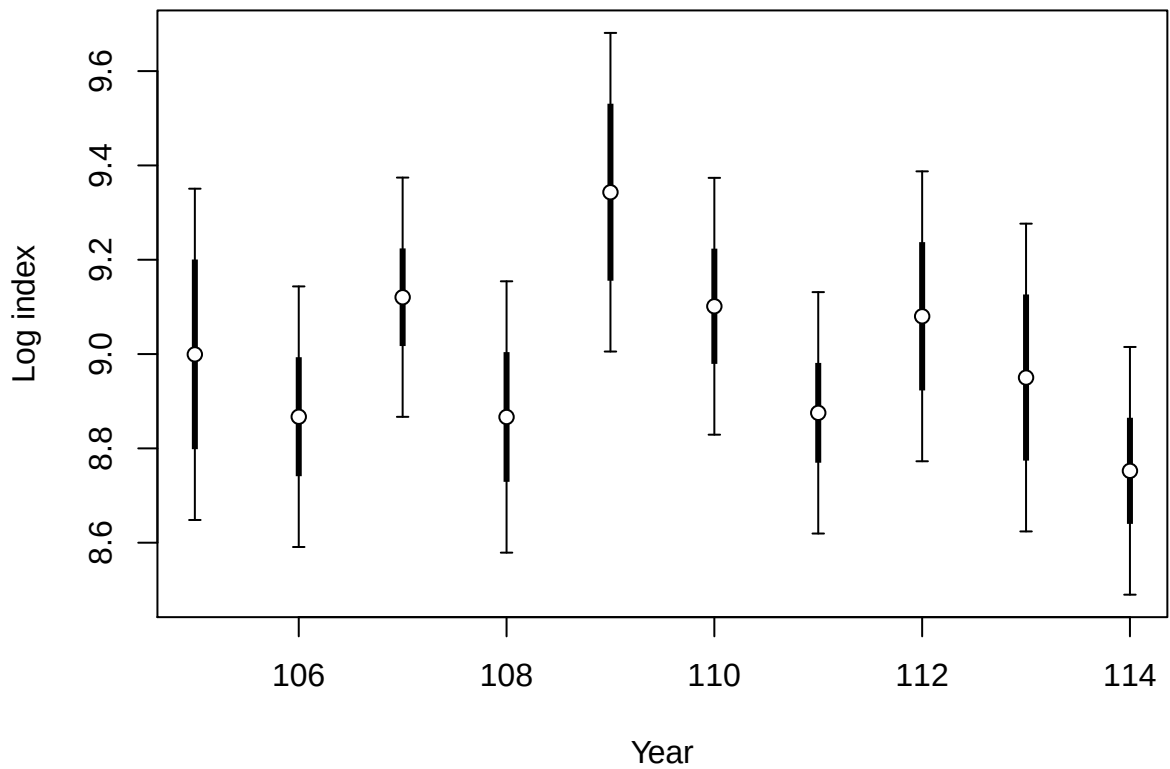


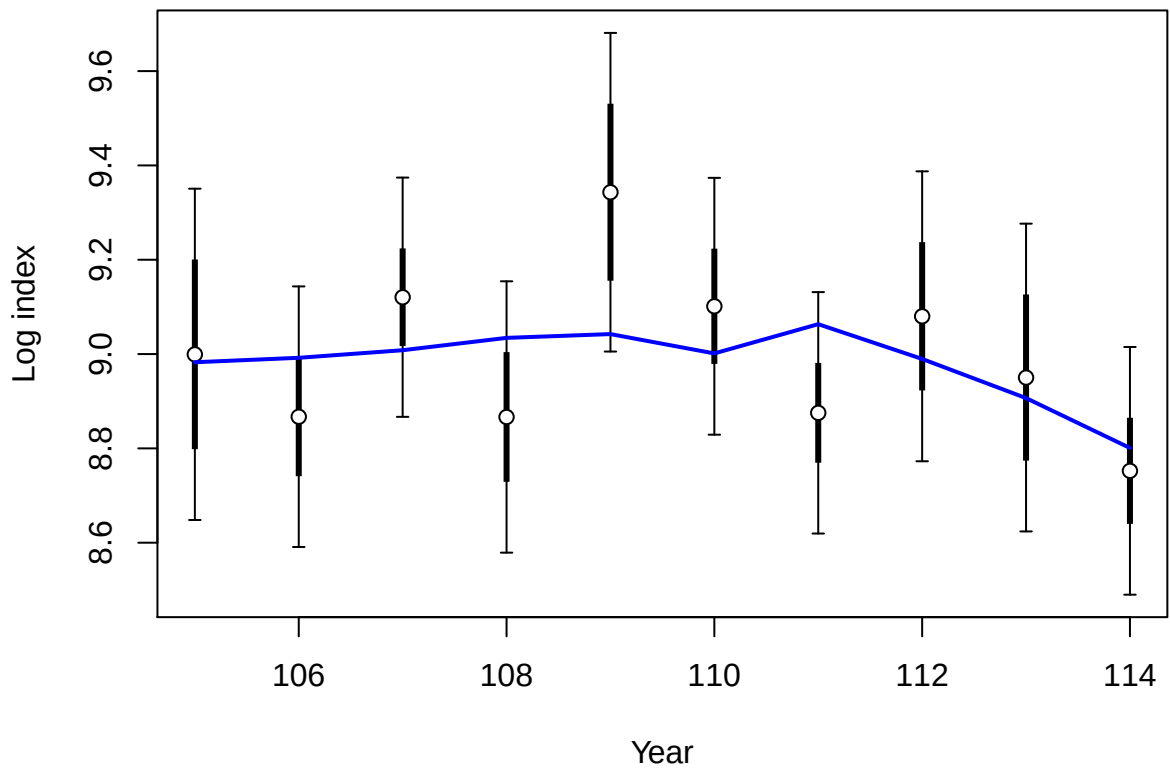


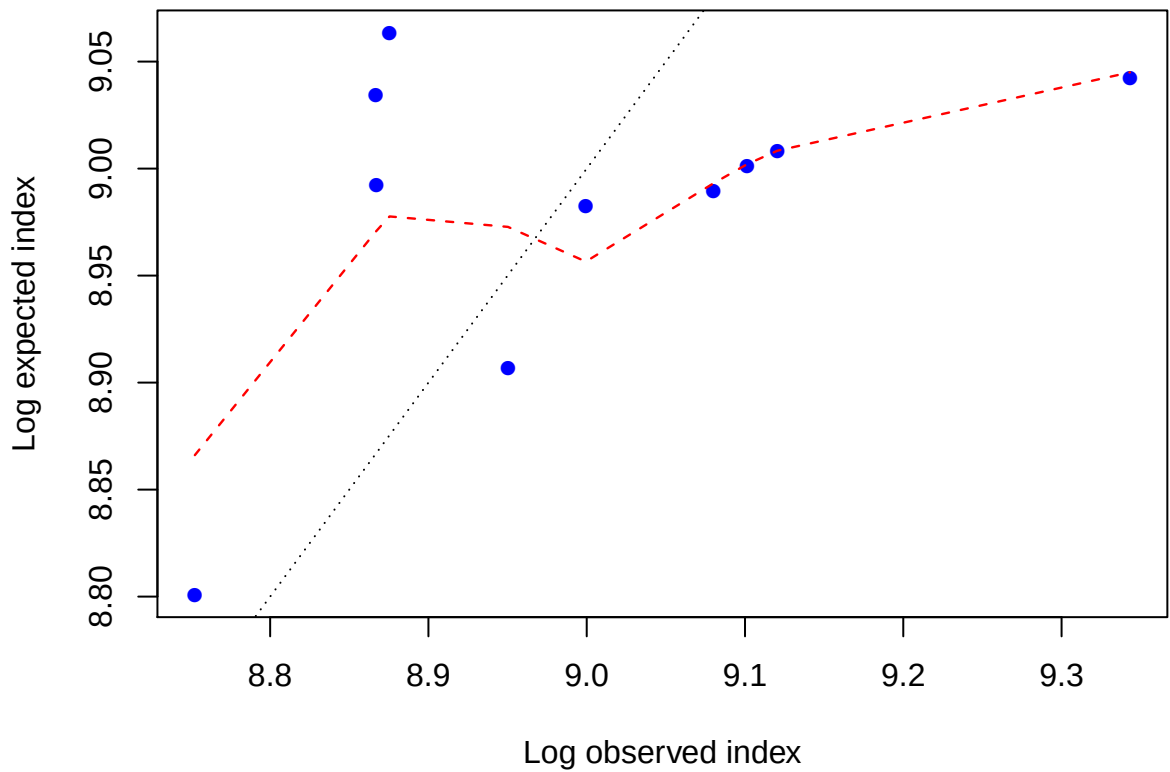


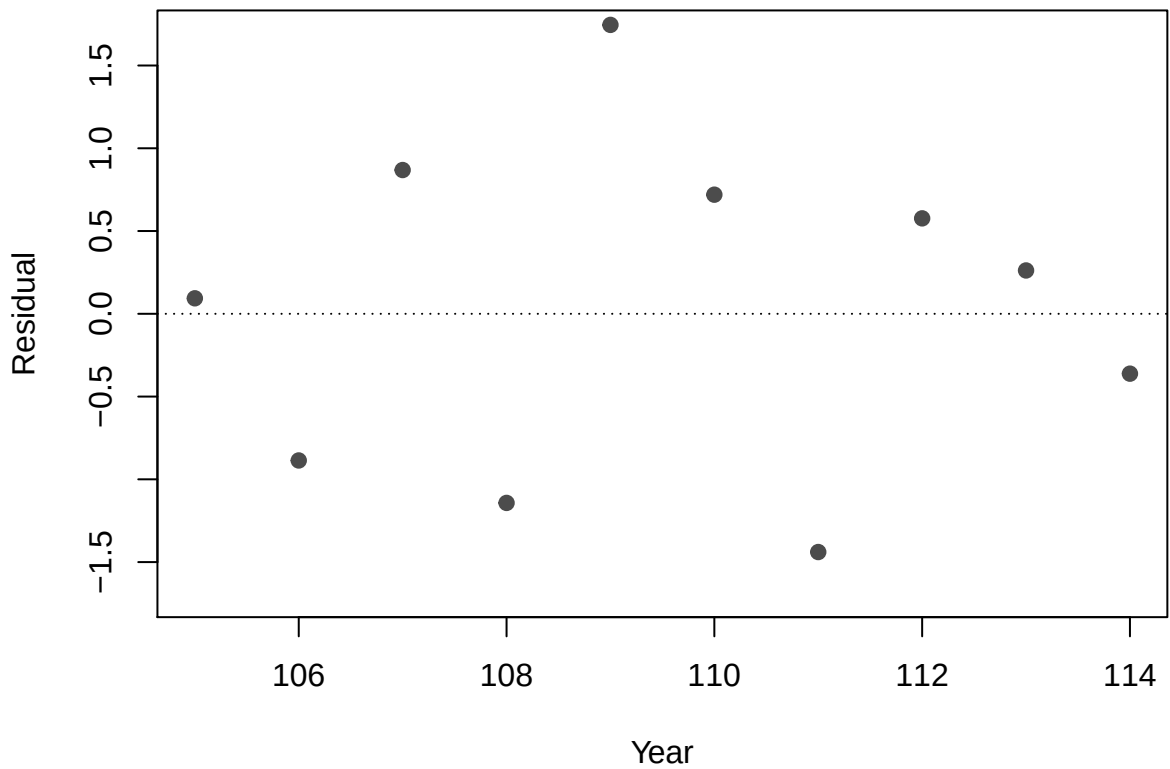


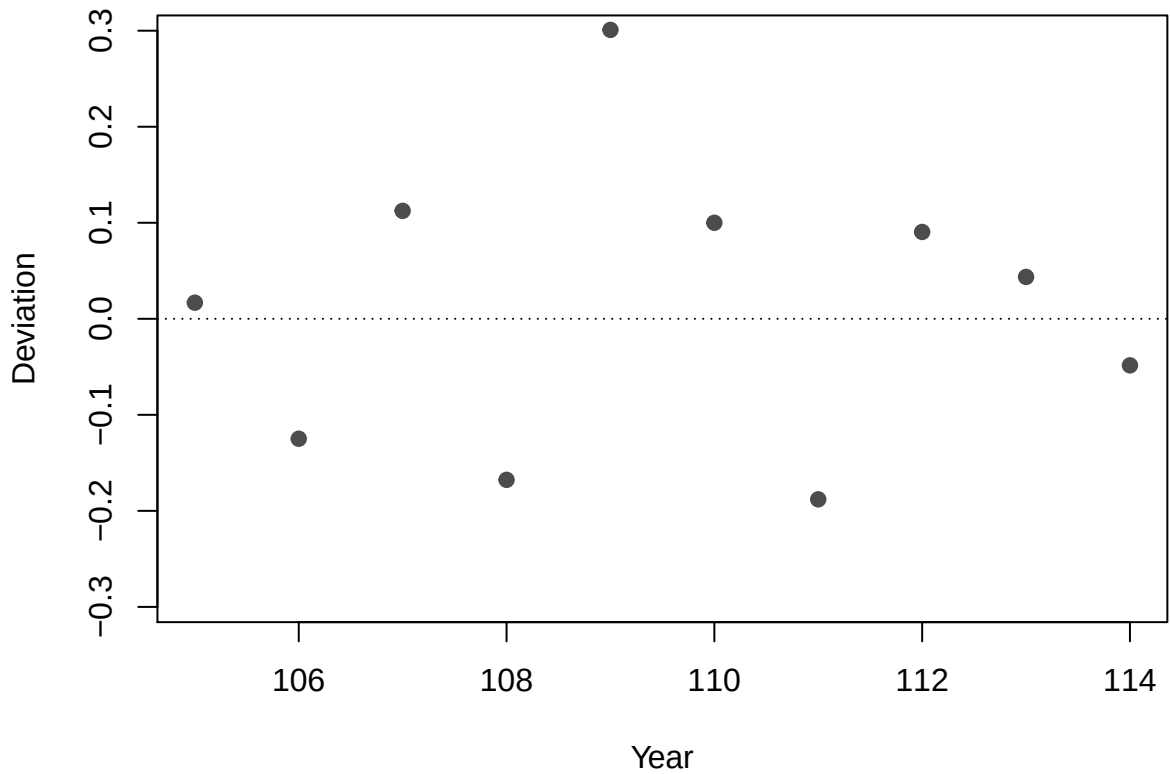


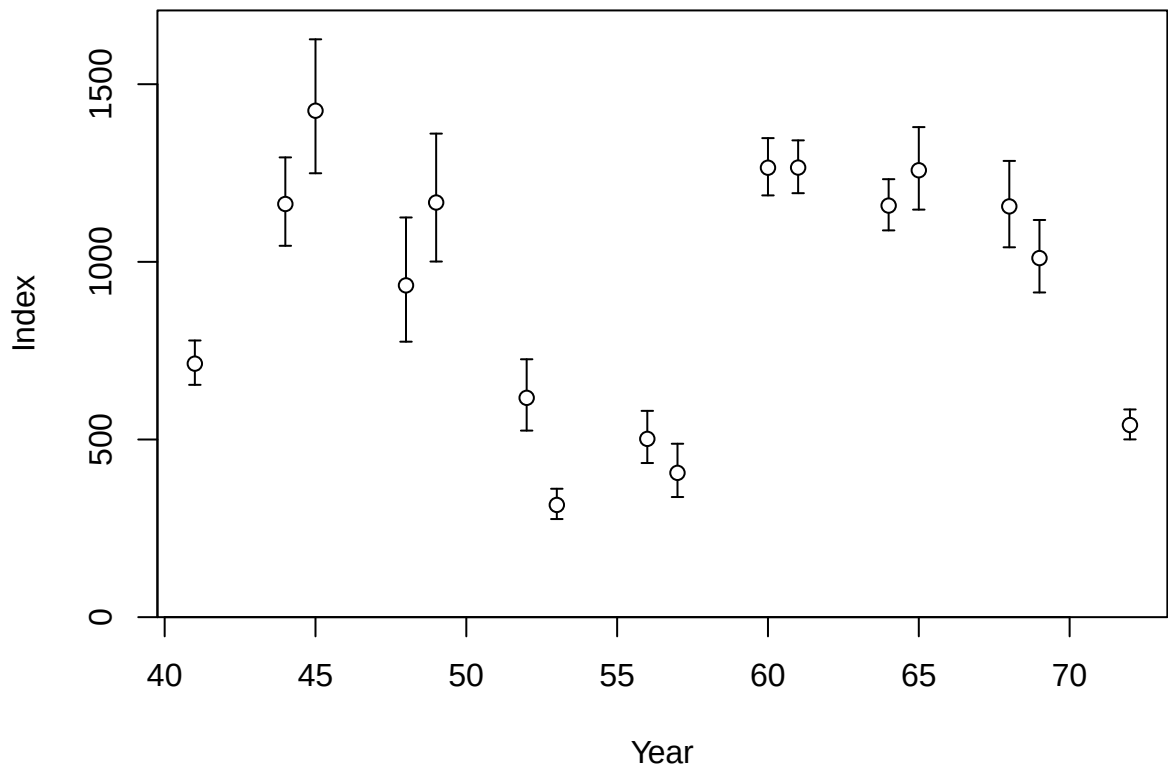


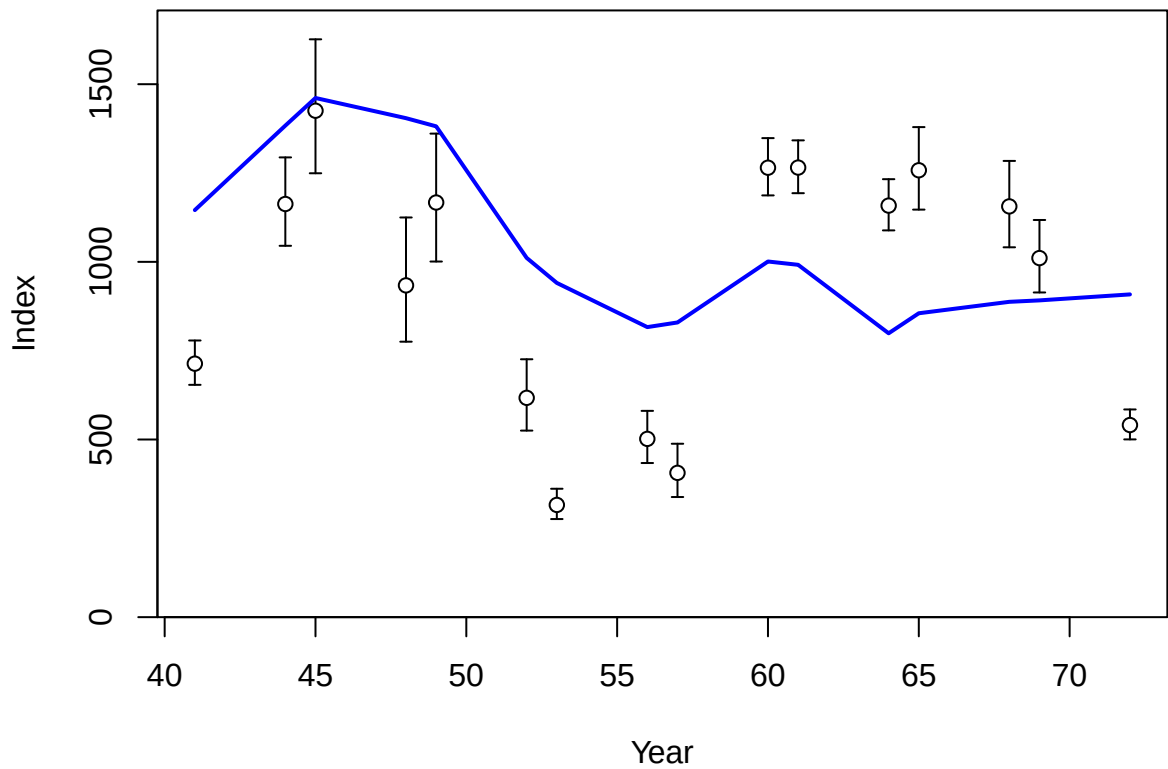


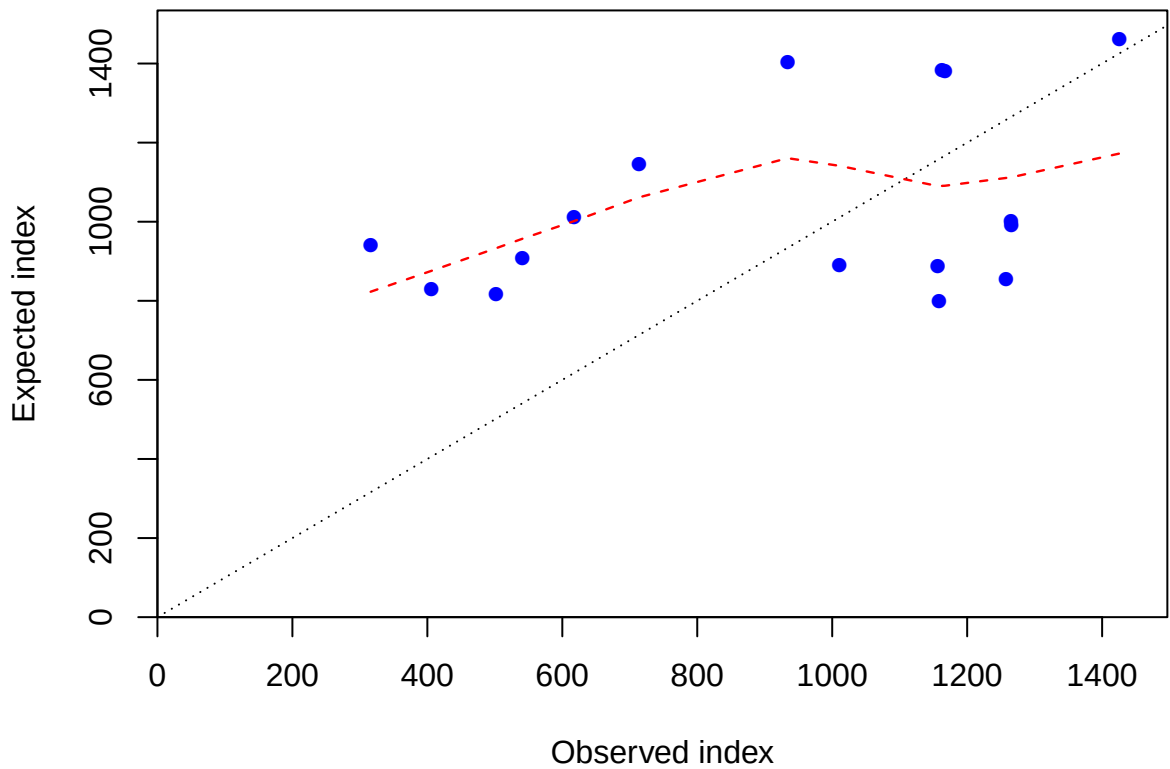


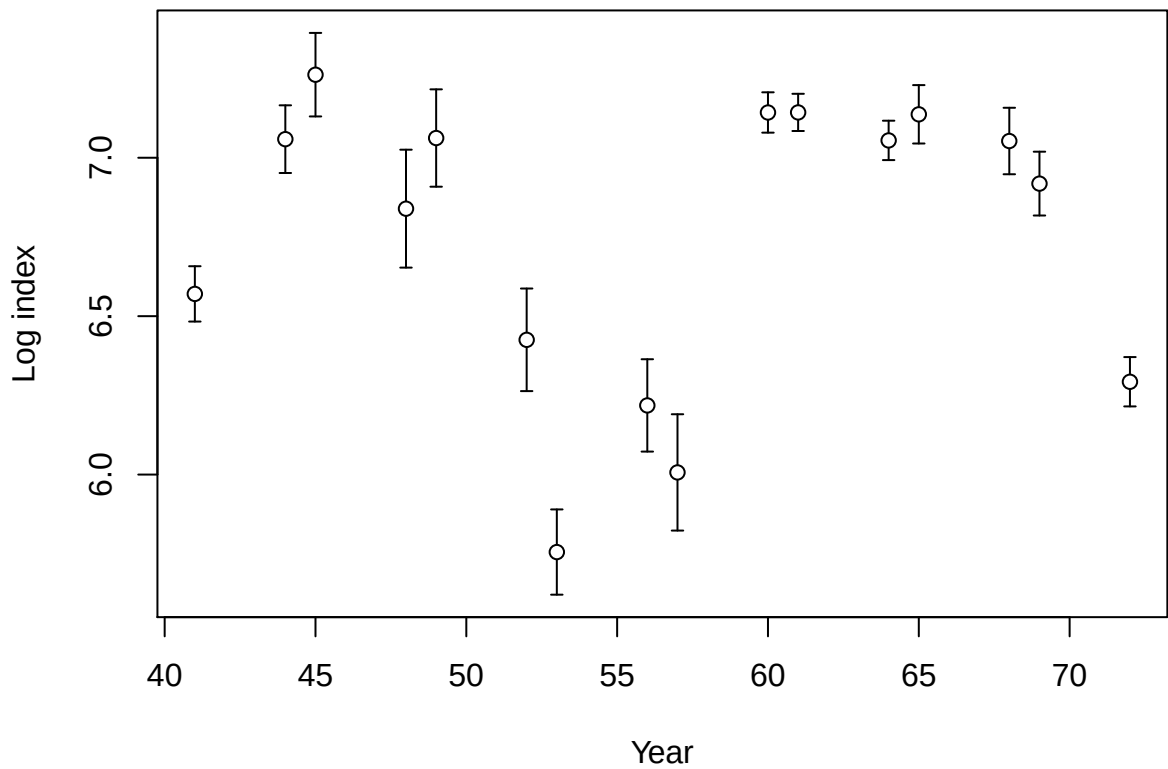




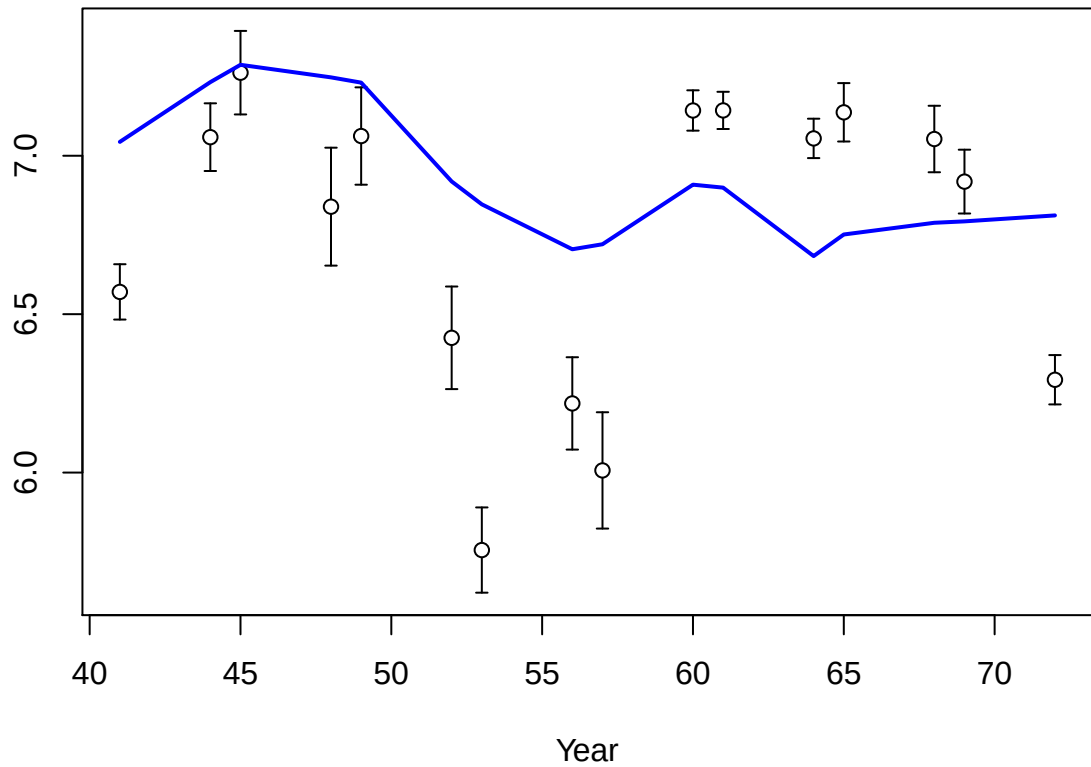


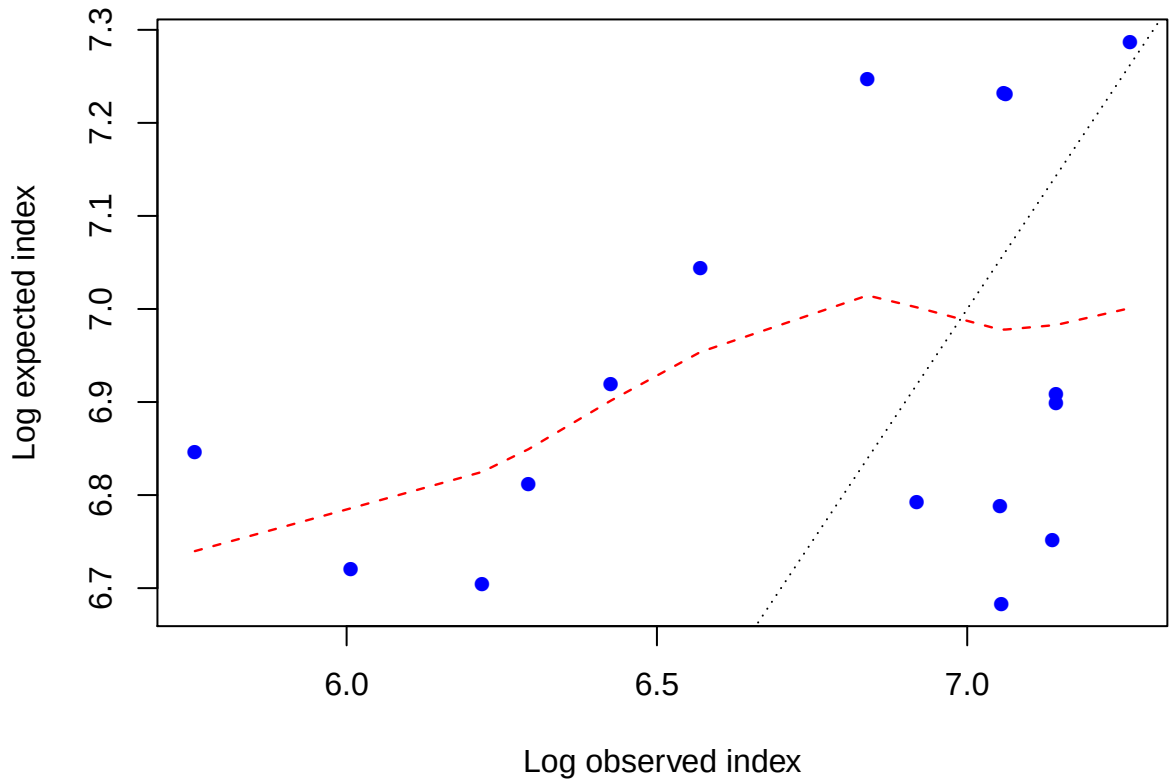


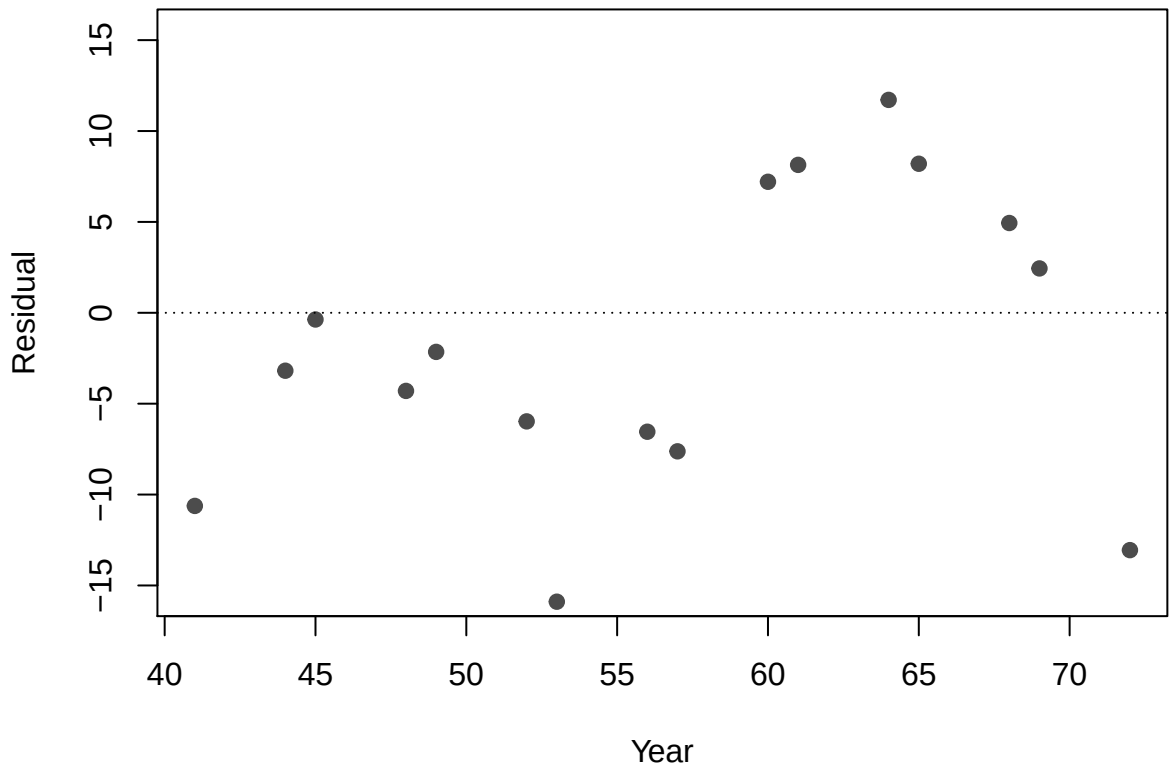


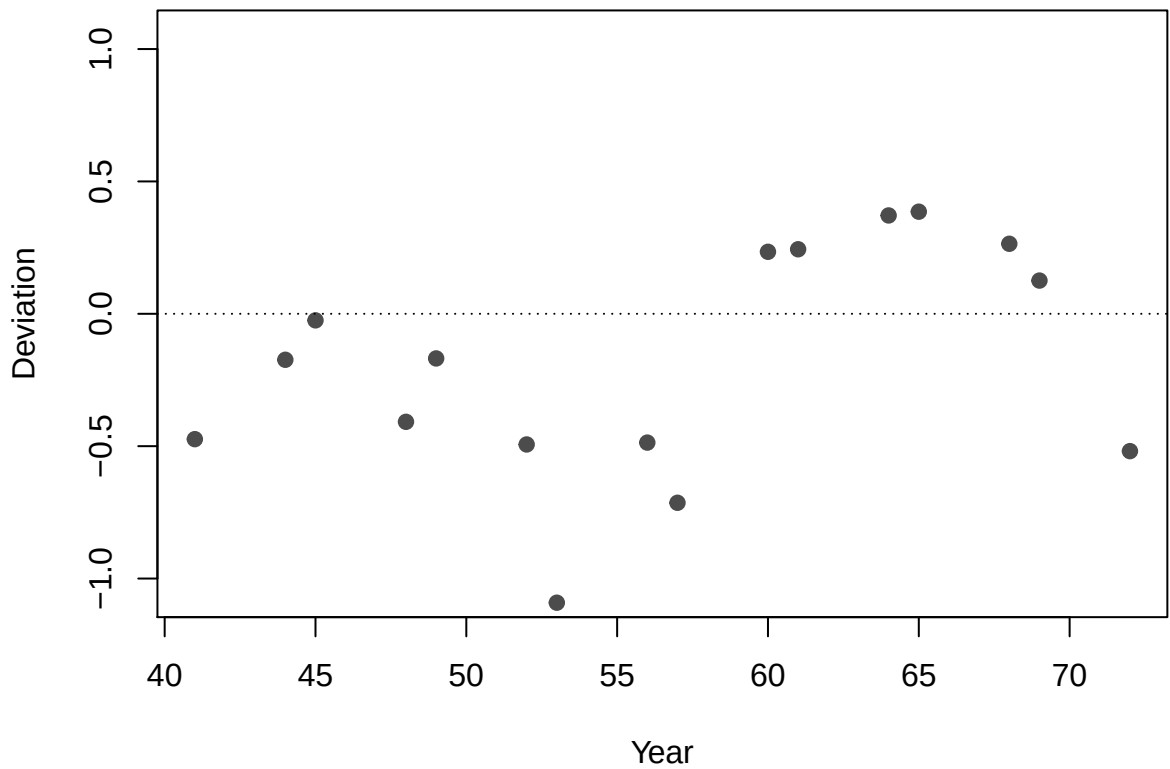


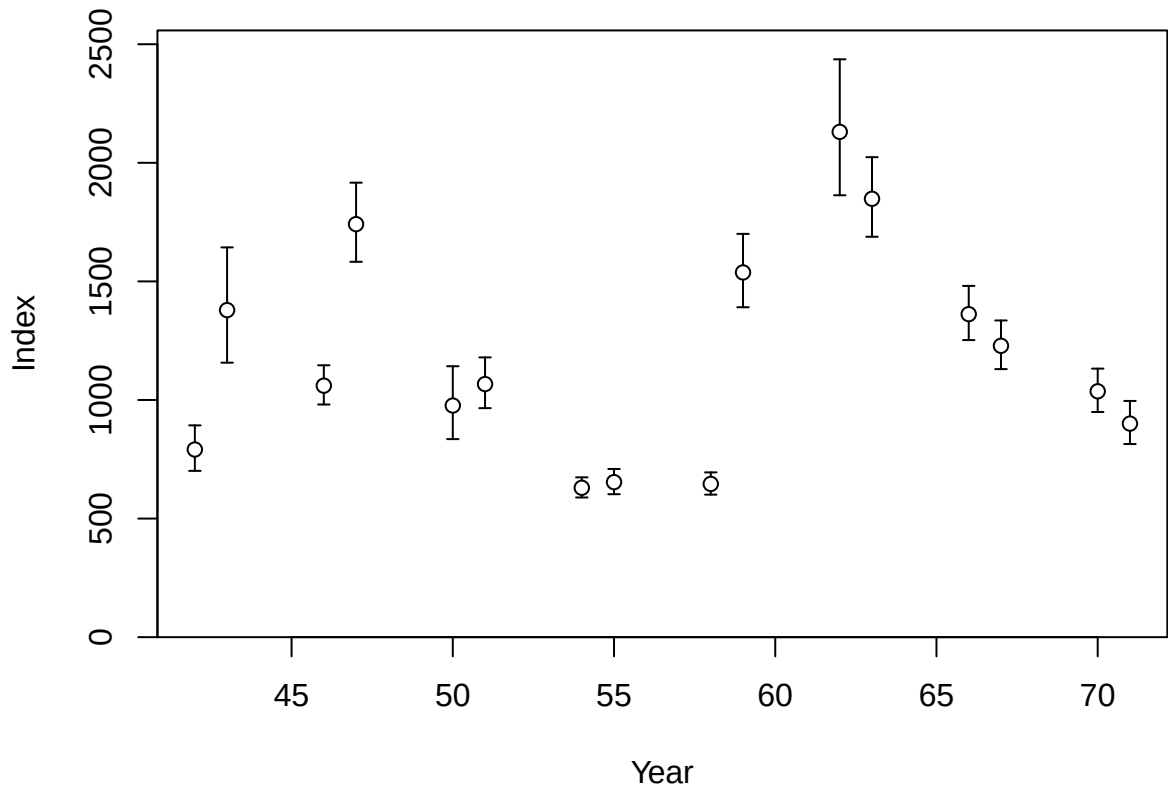
Log index

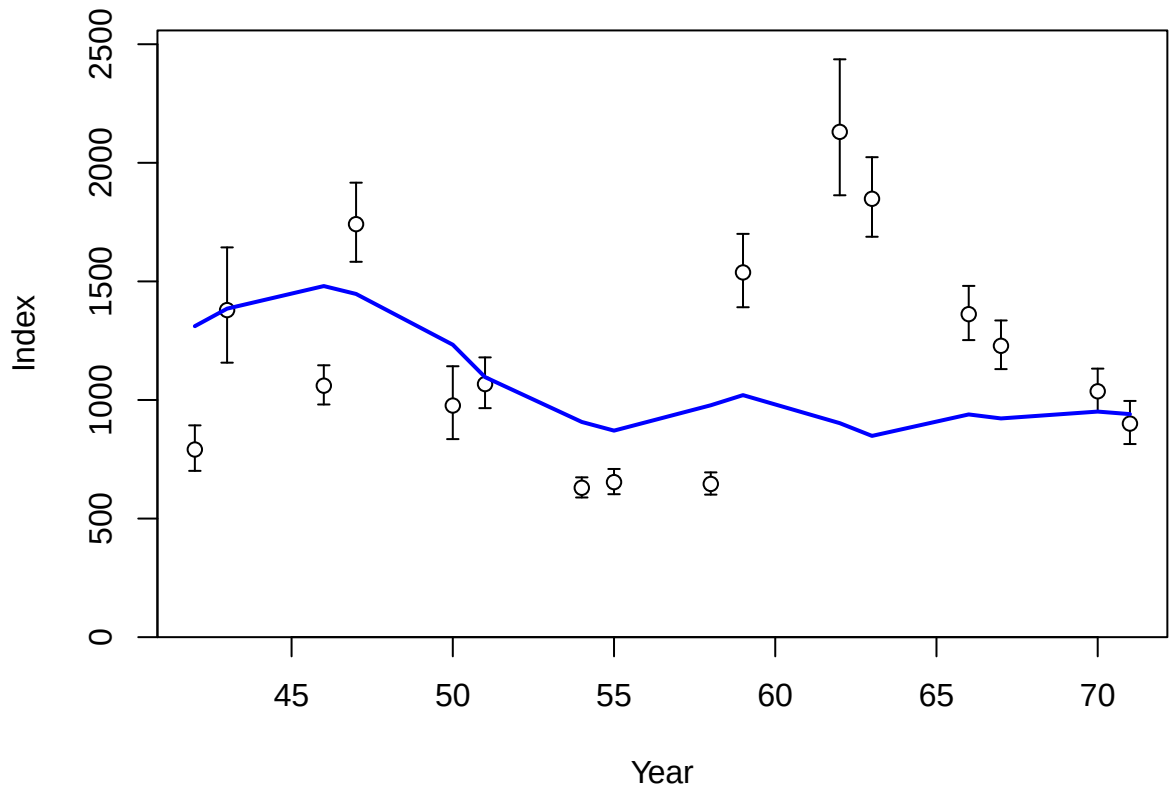


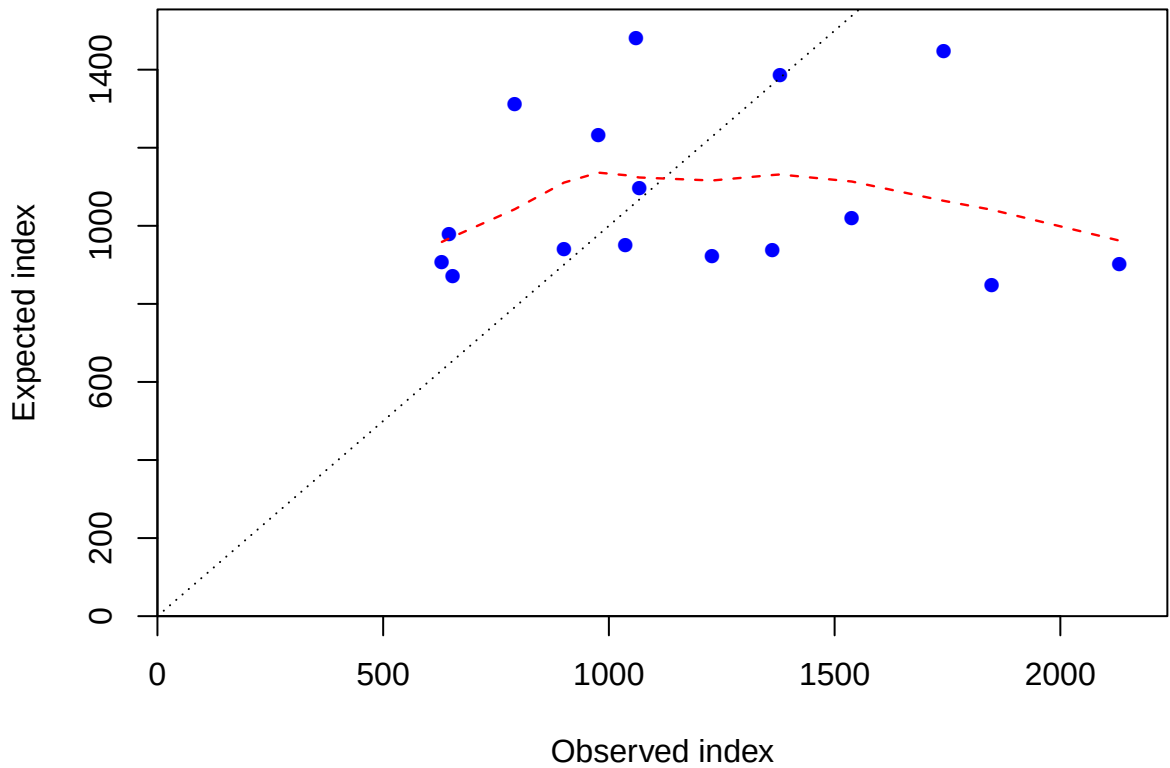


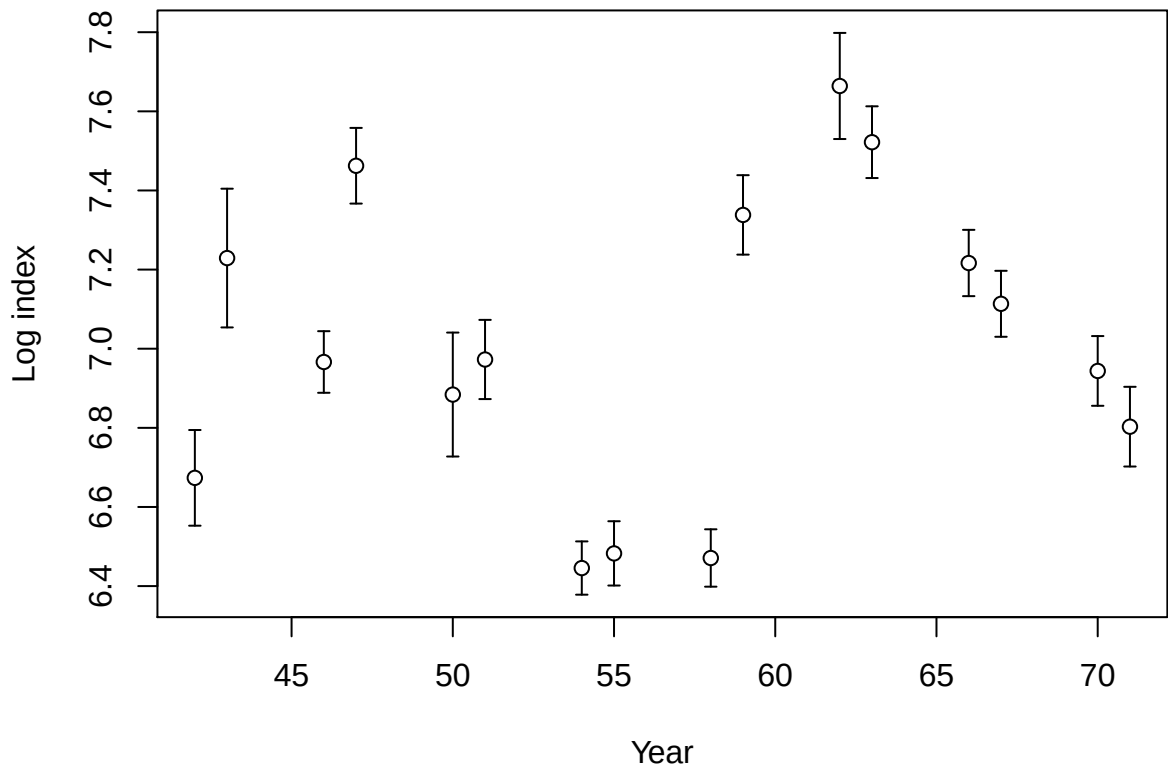


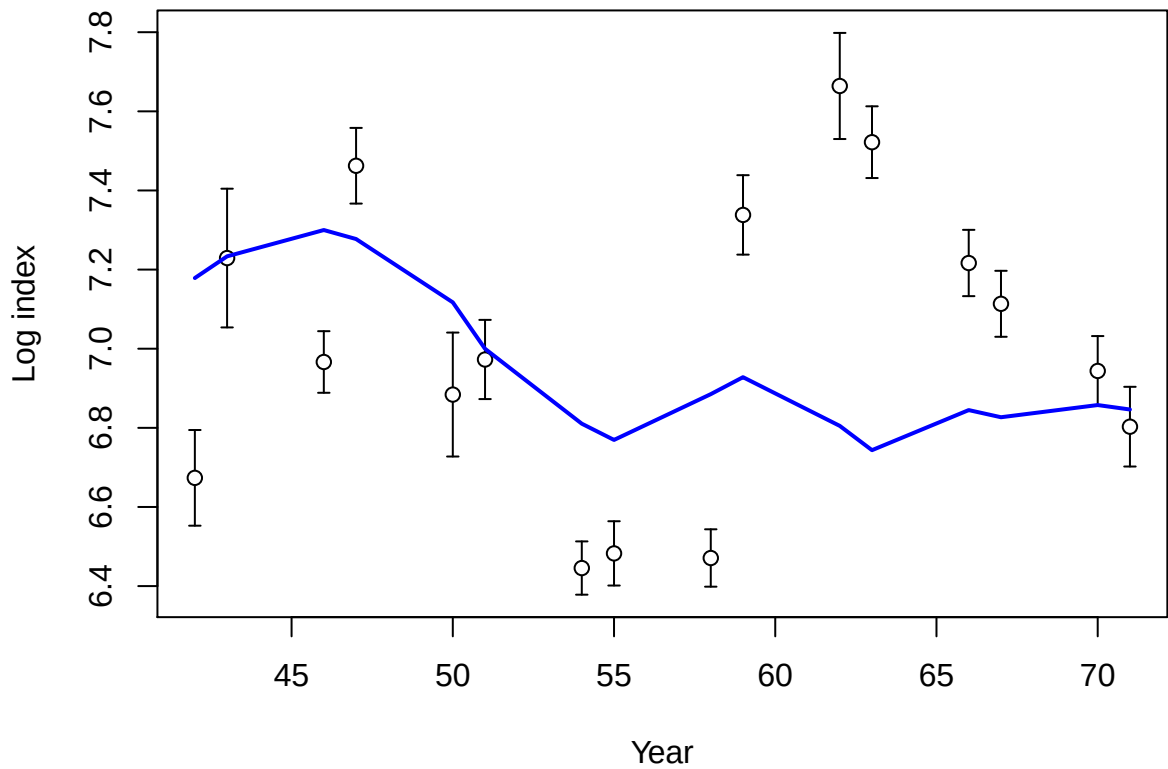


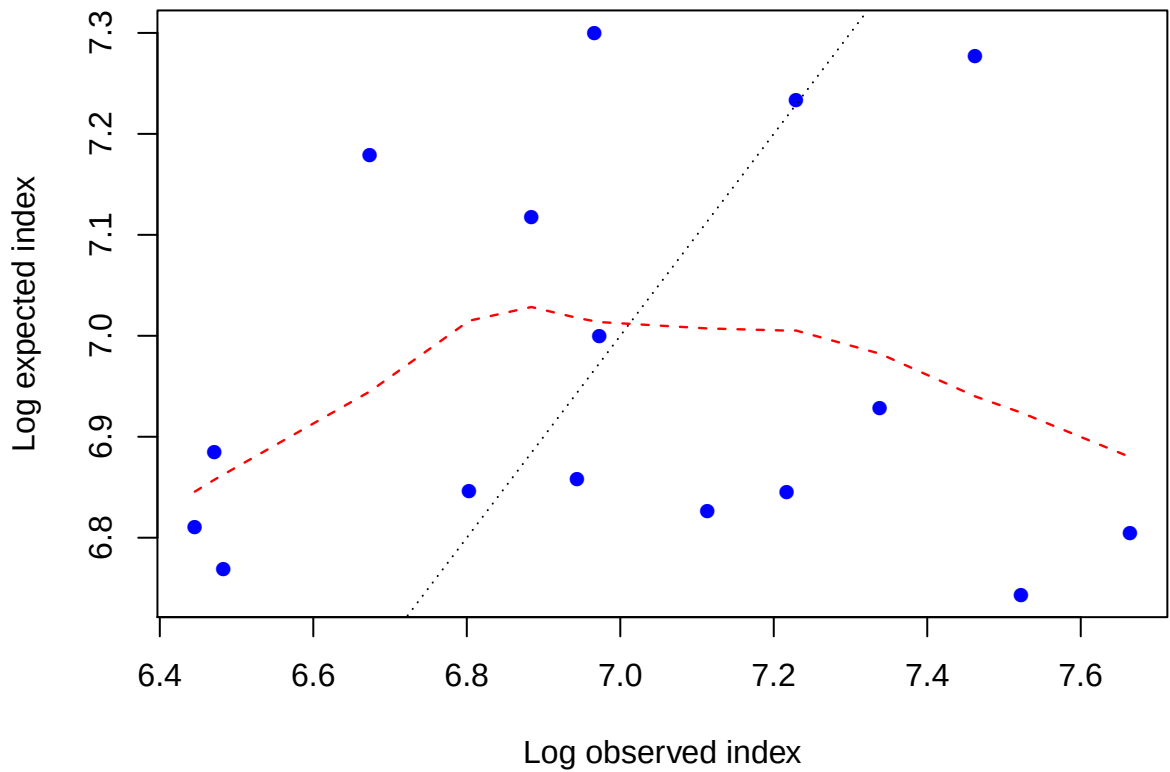


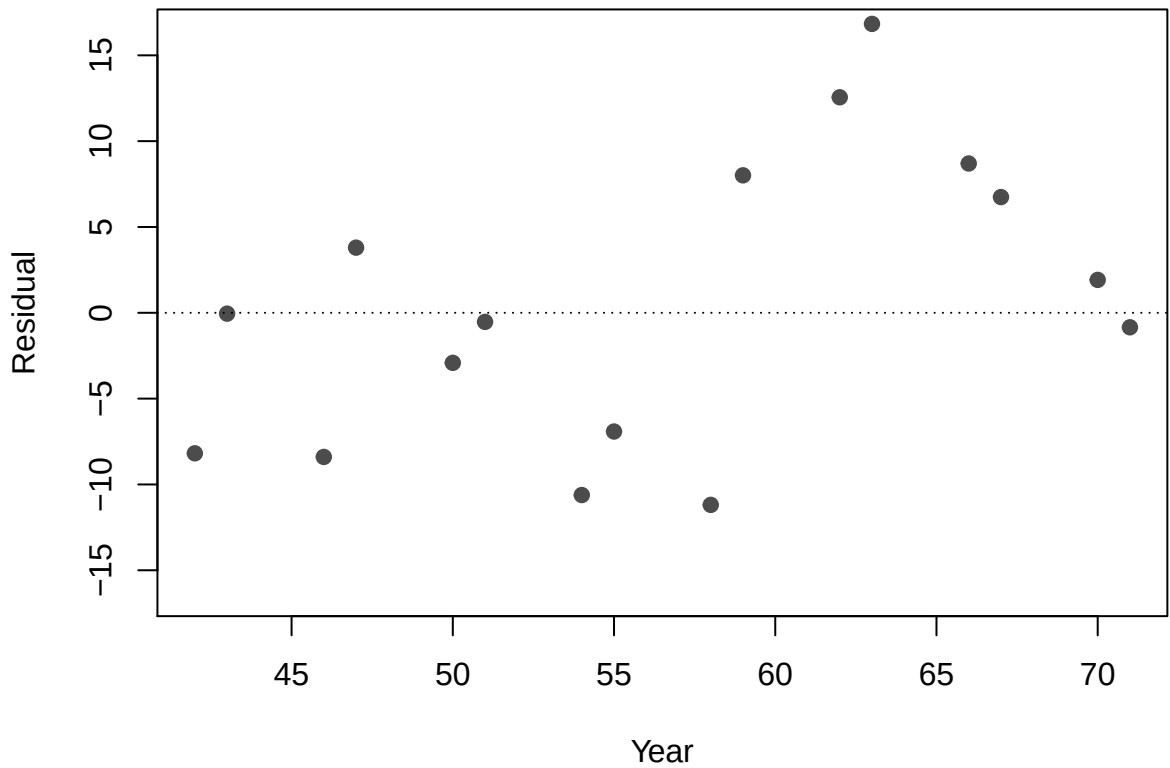


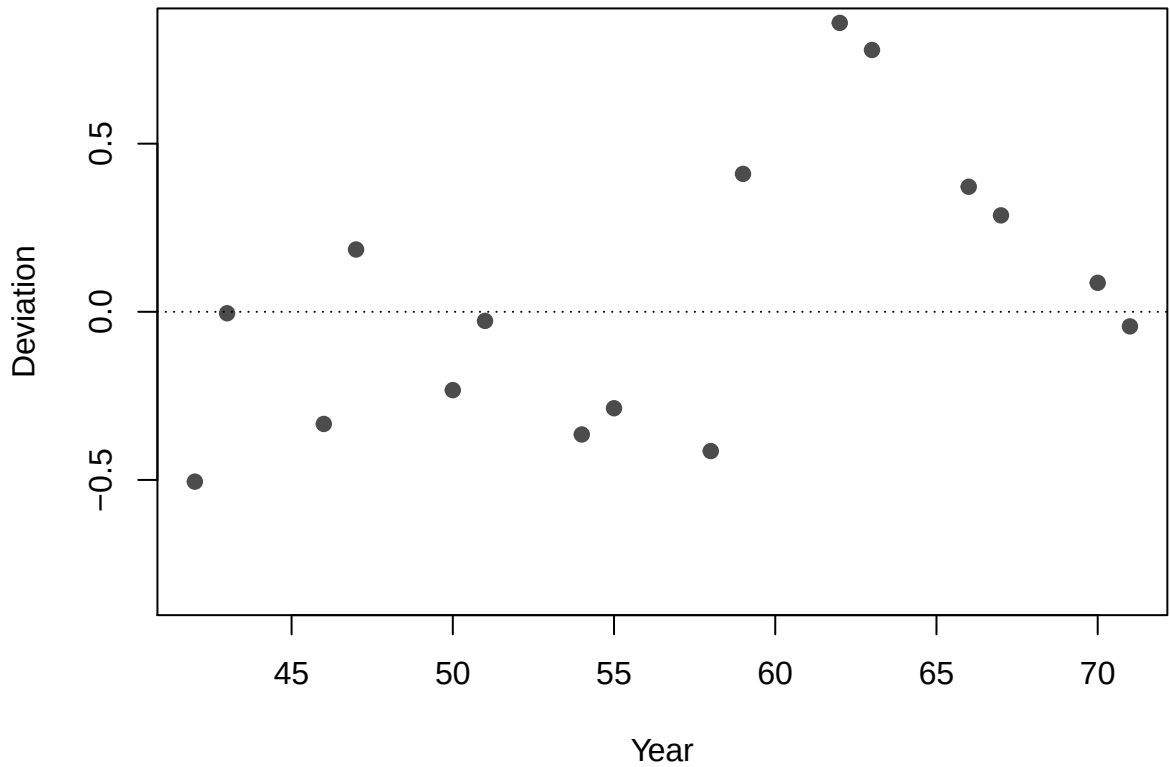


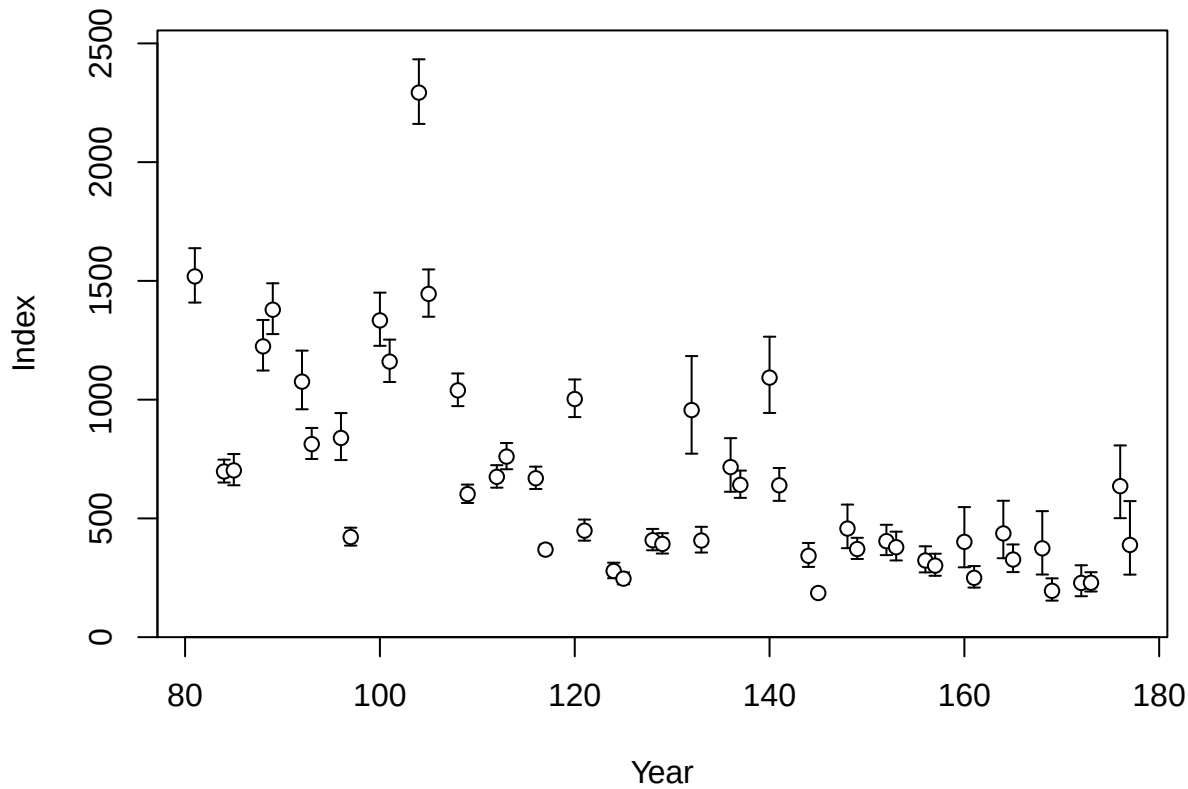


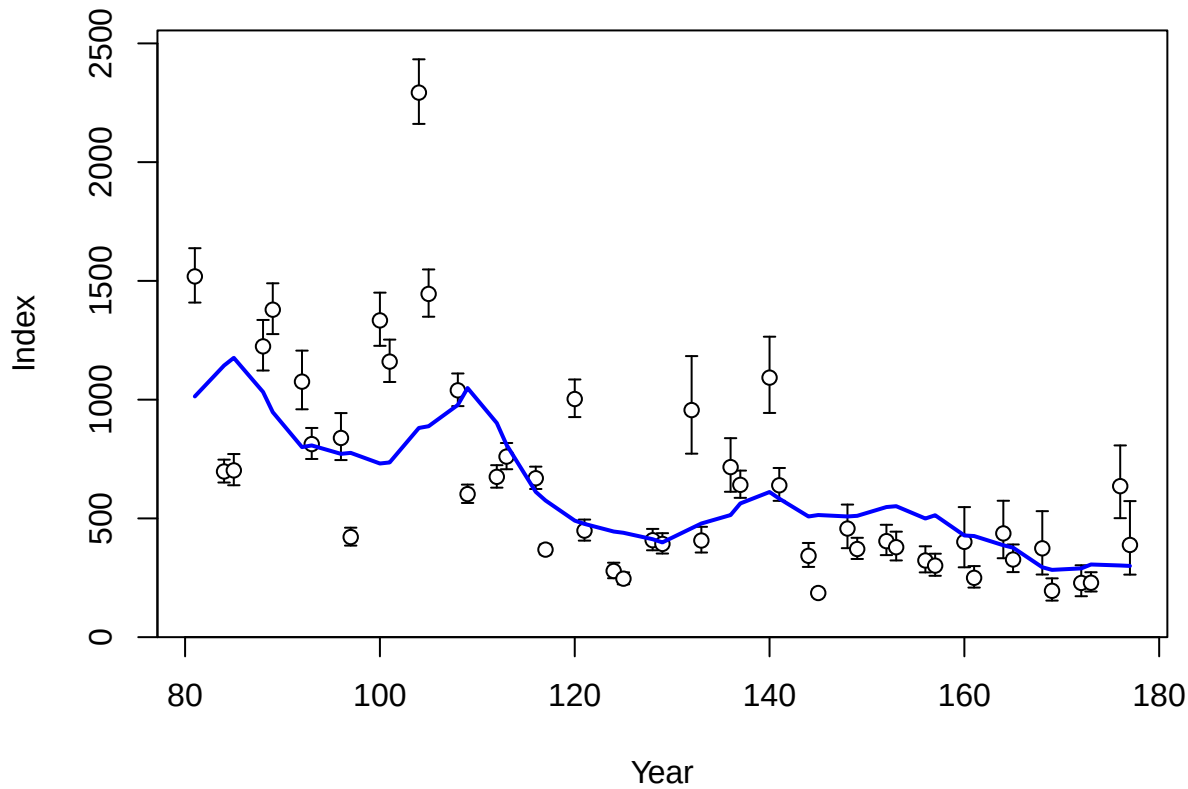


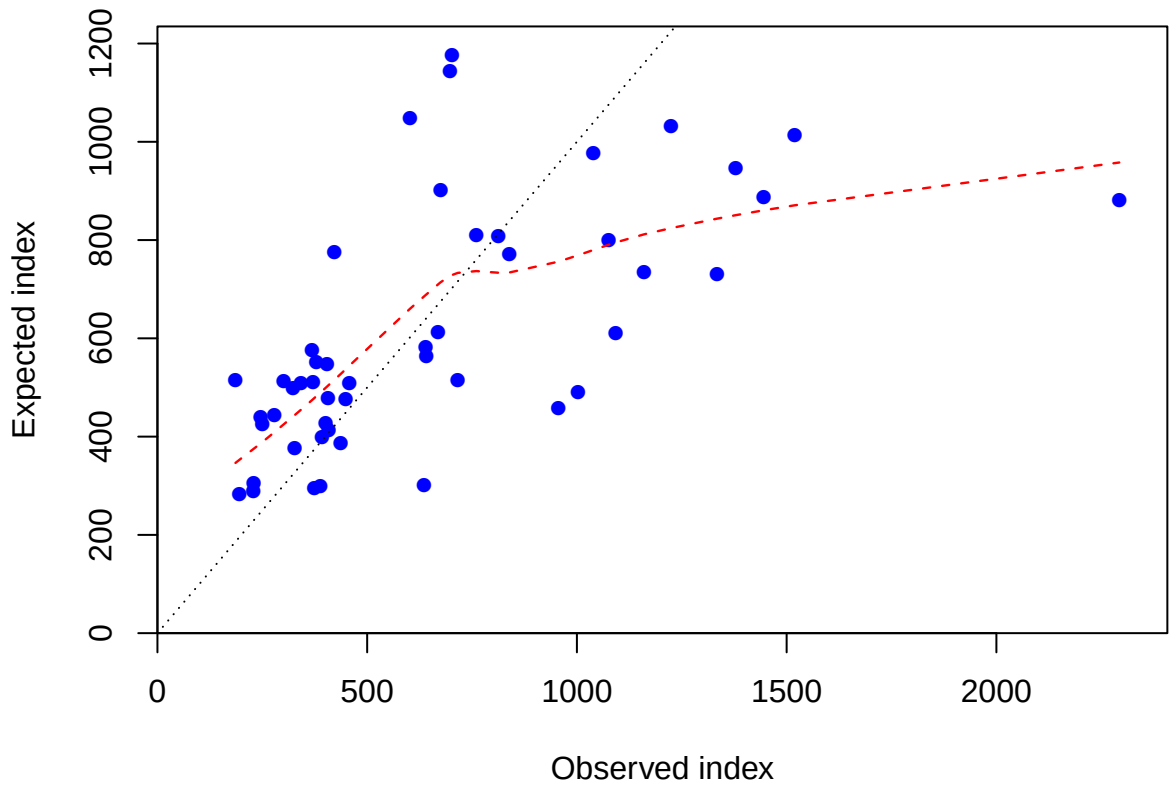


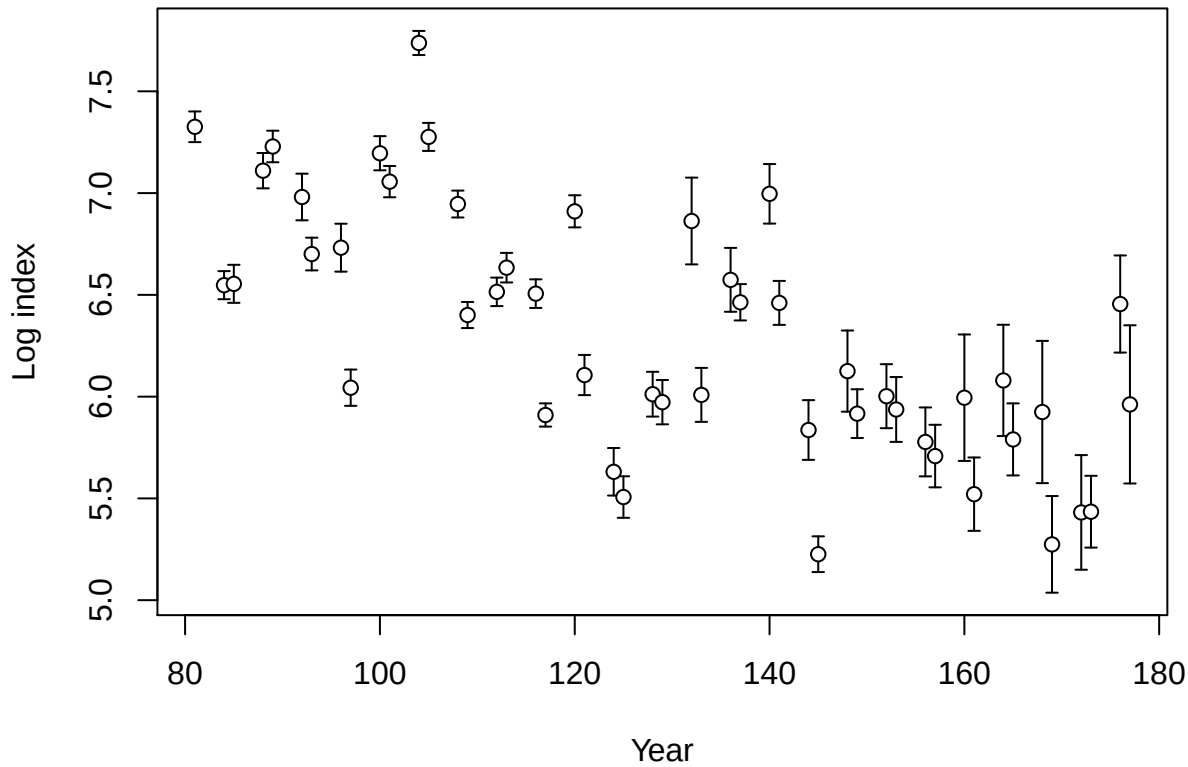




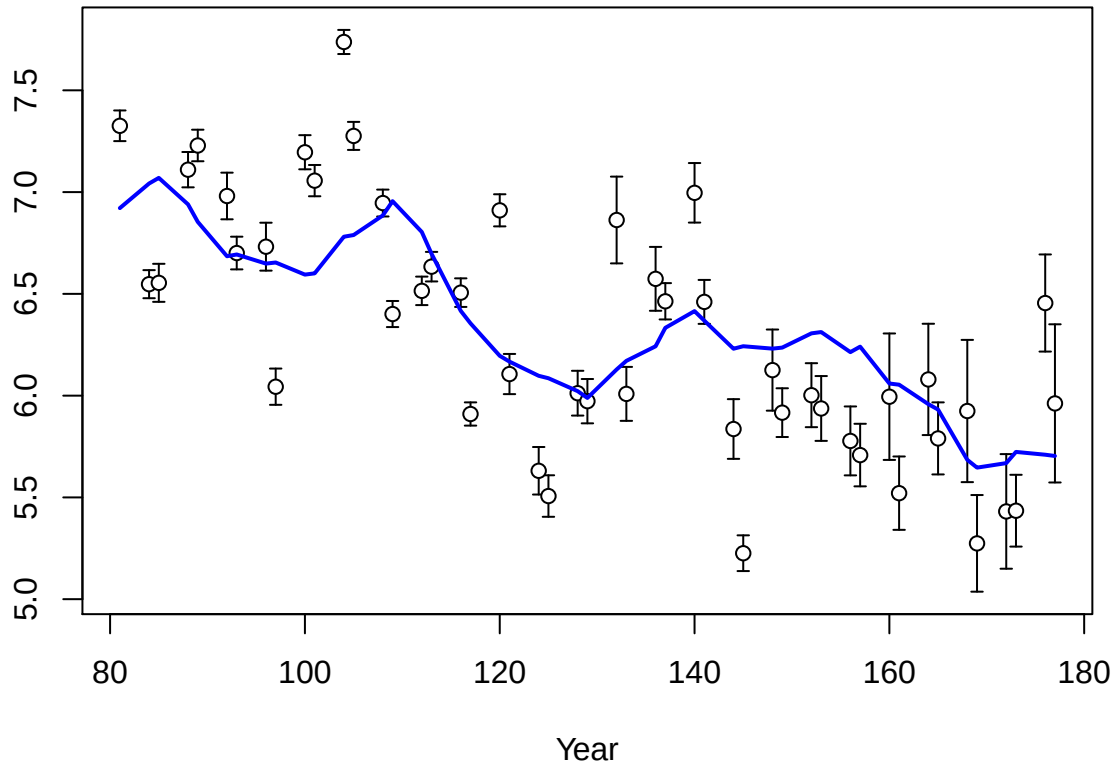


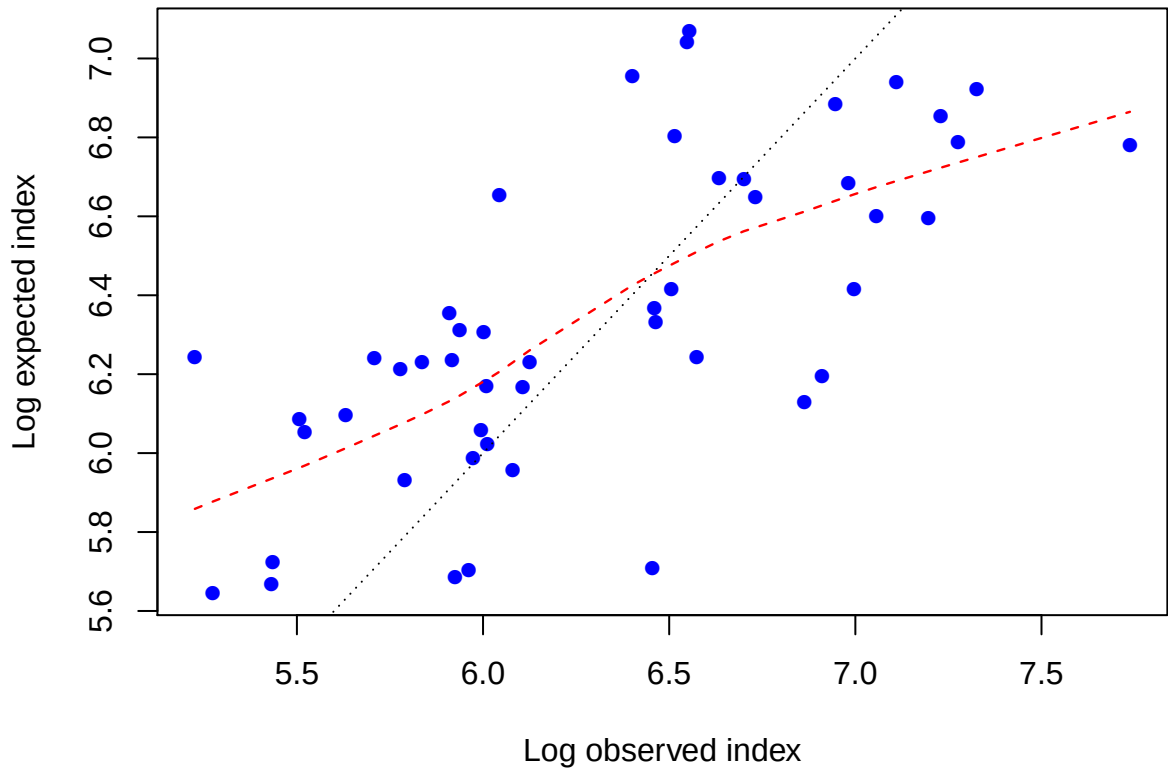


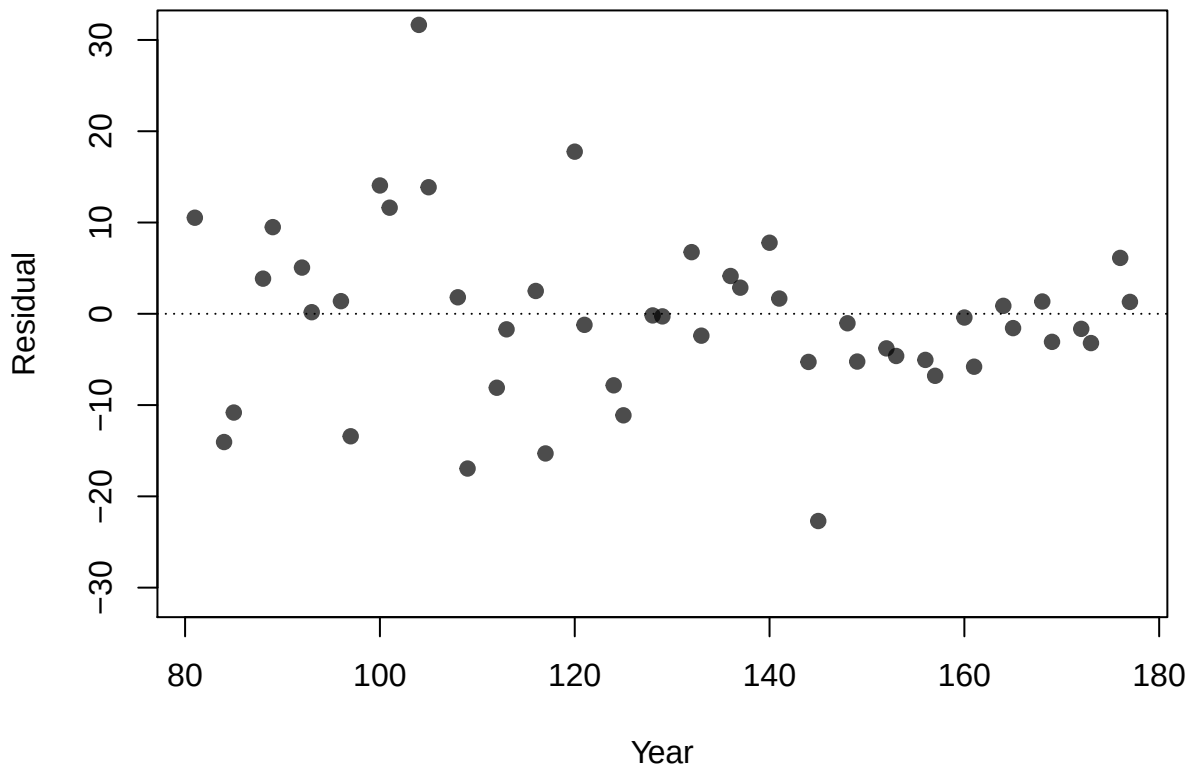


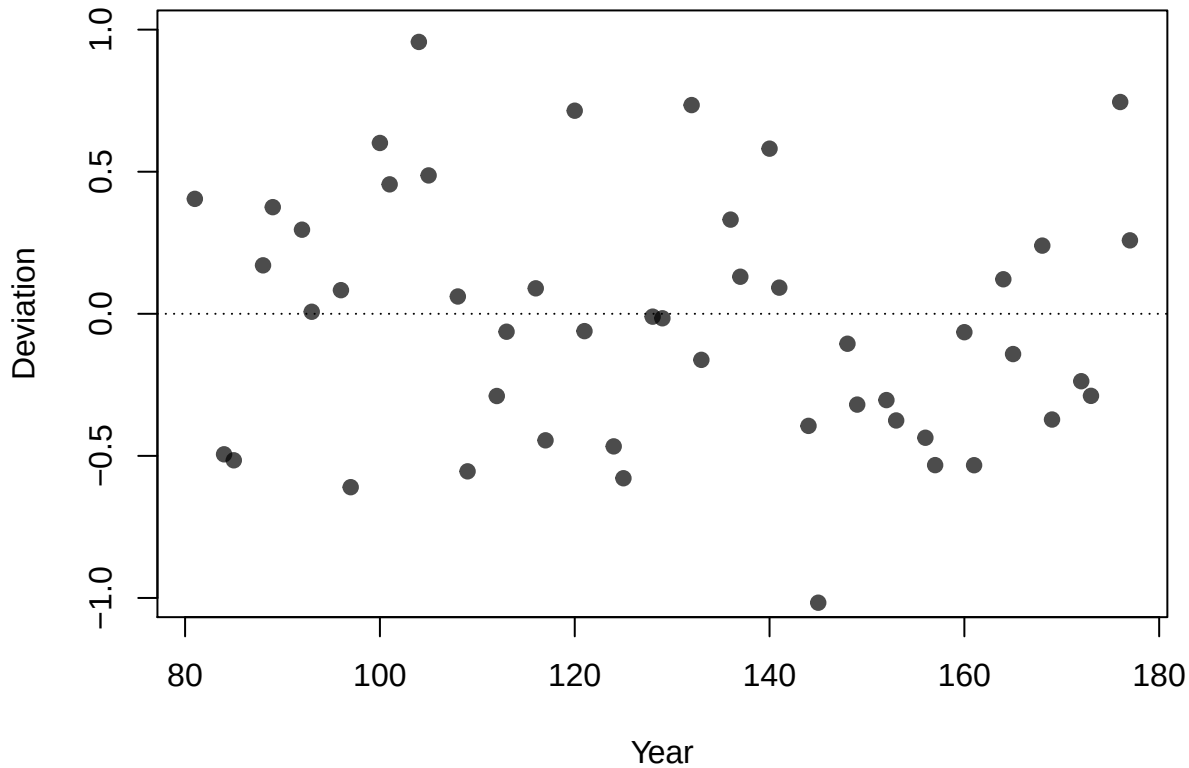


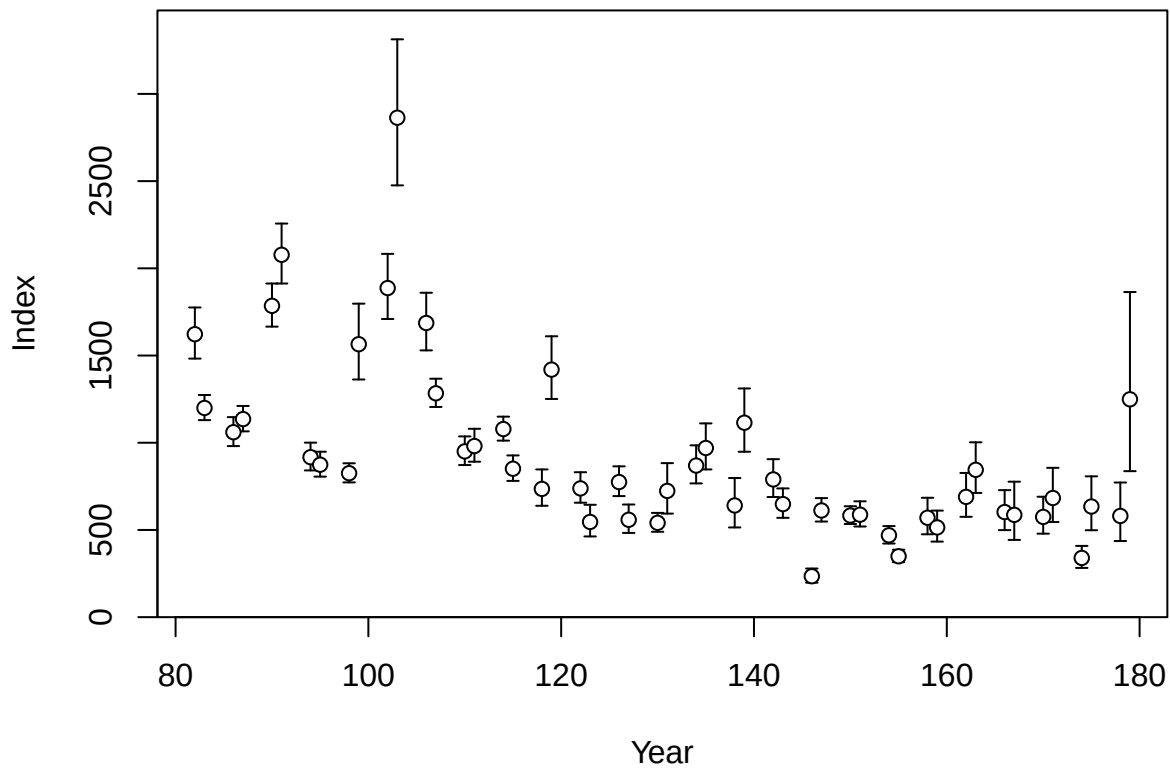
Log index

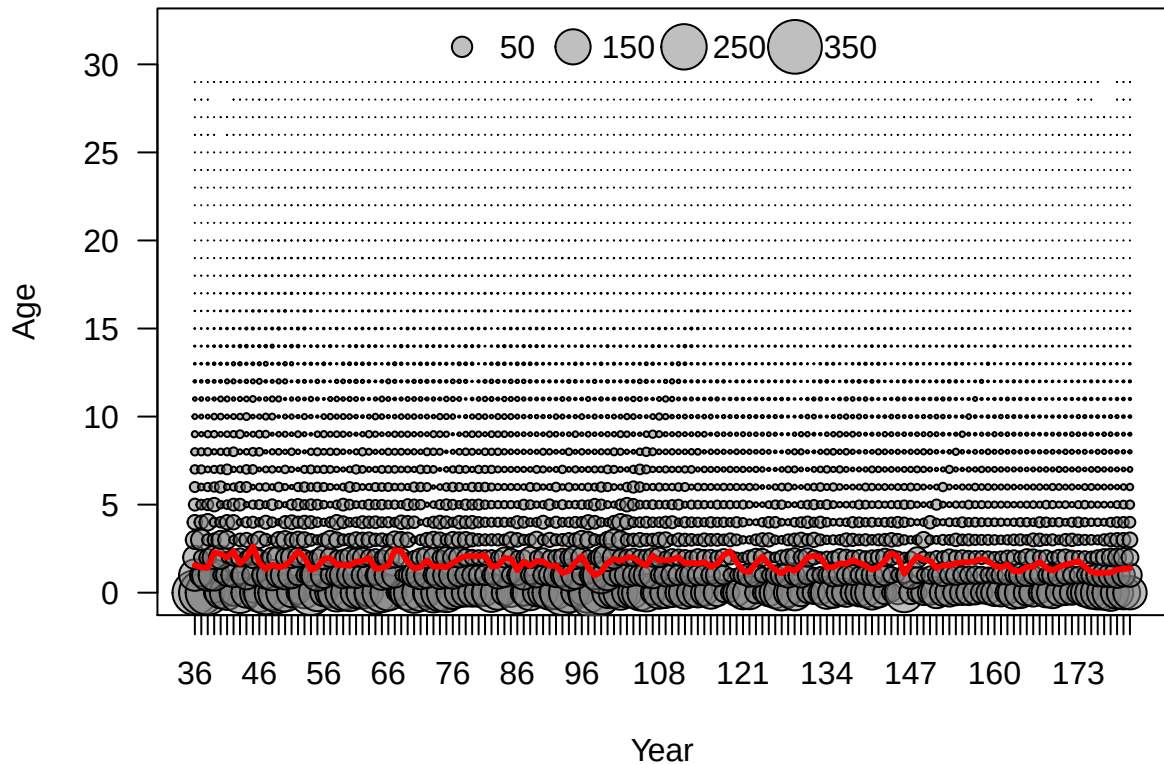


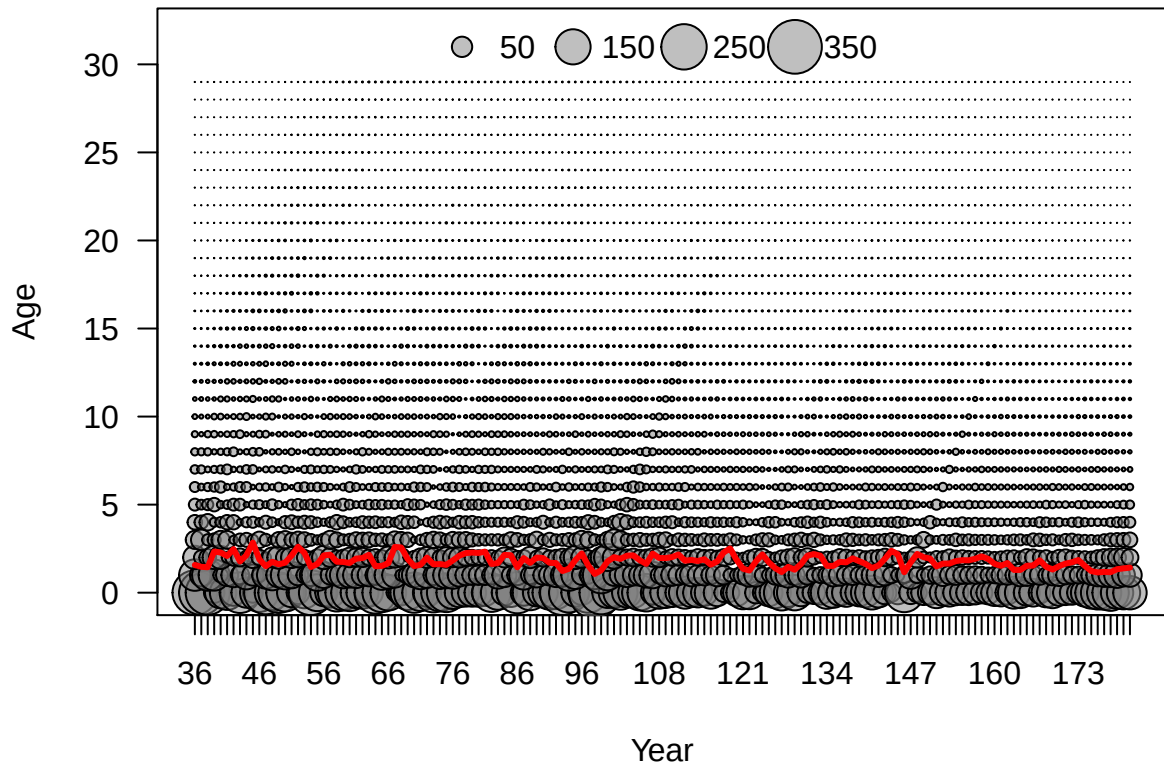


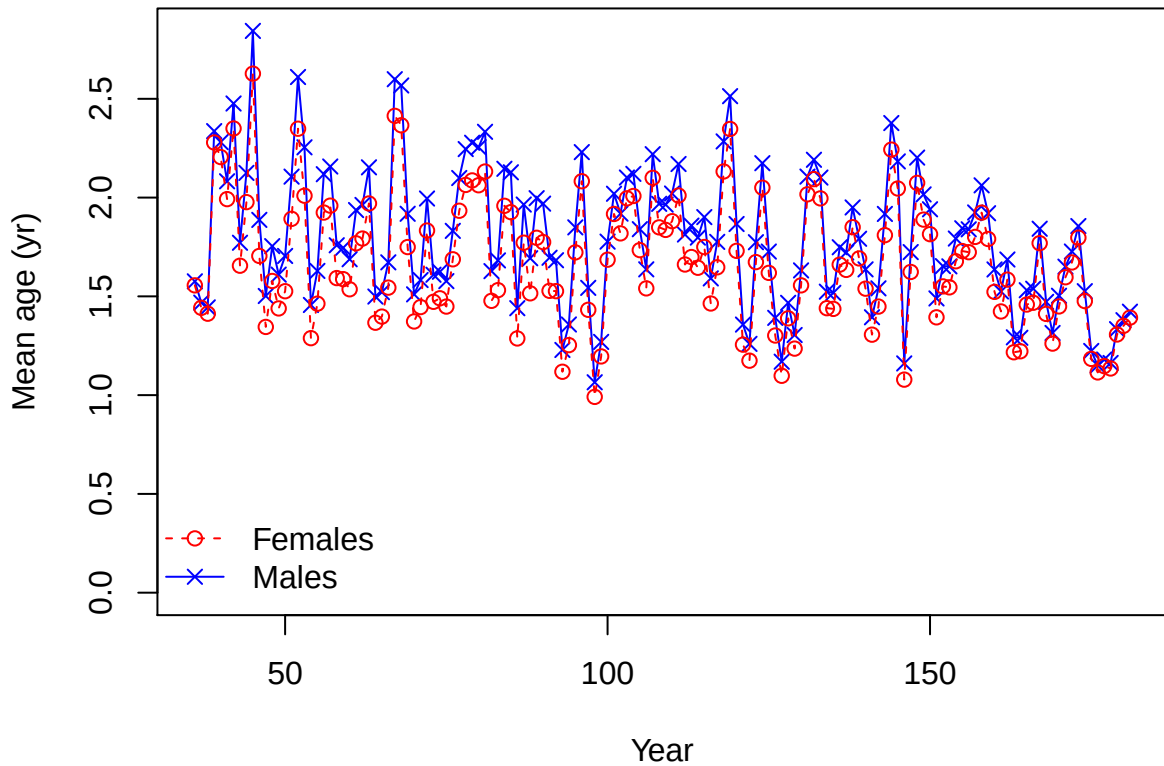


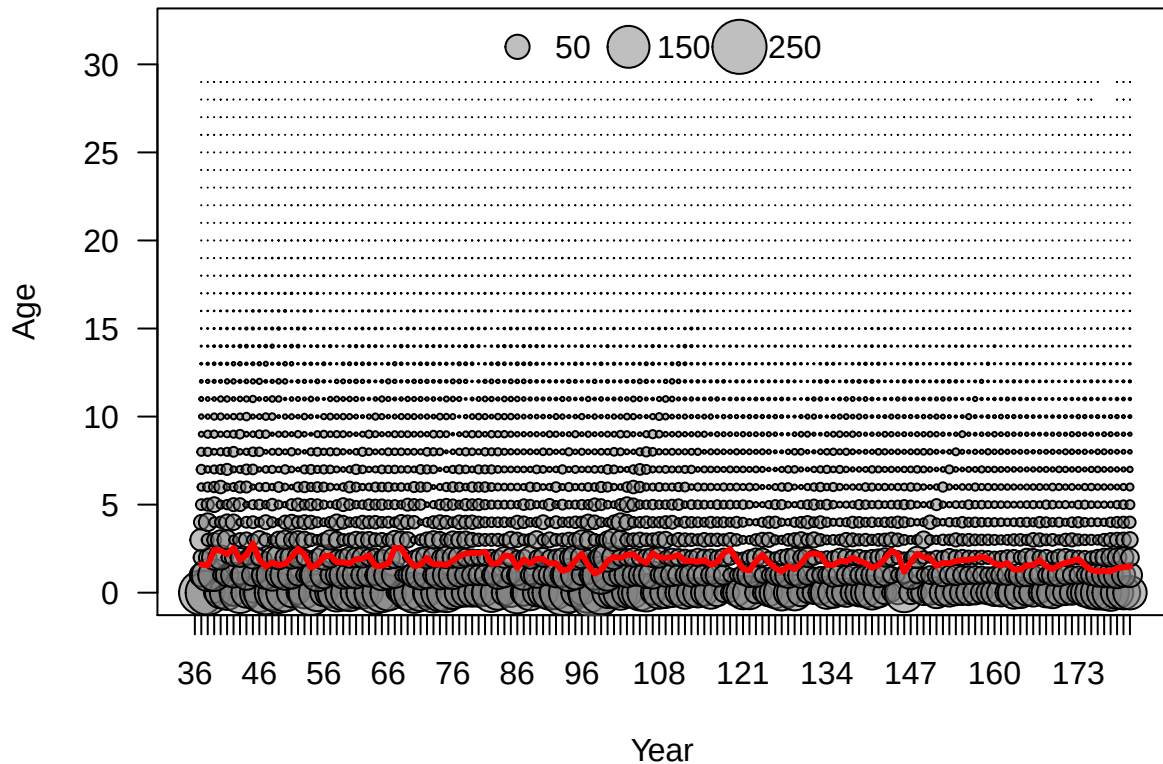


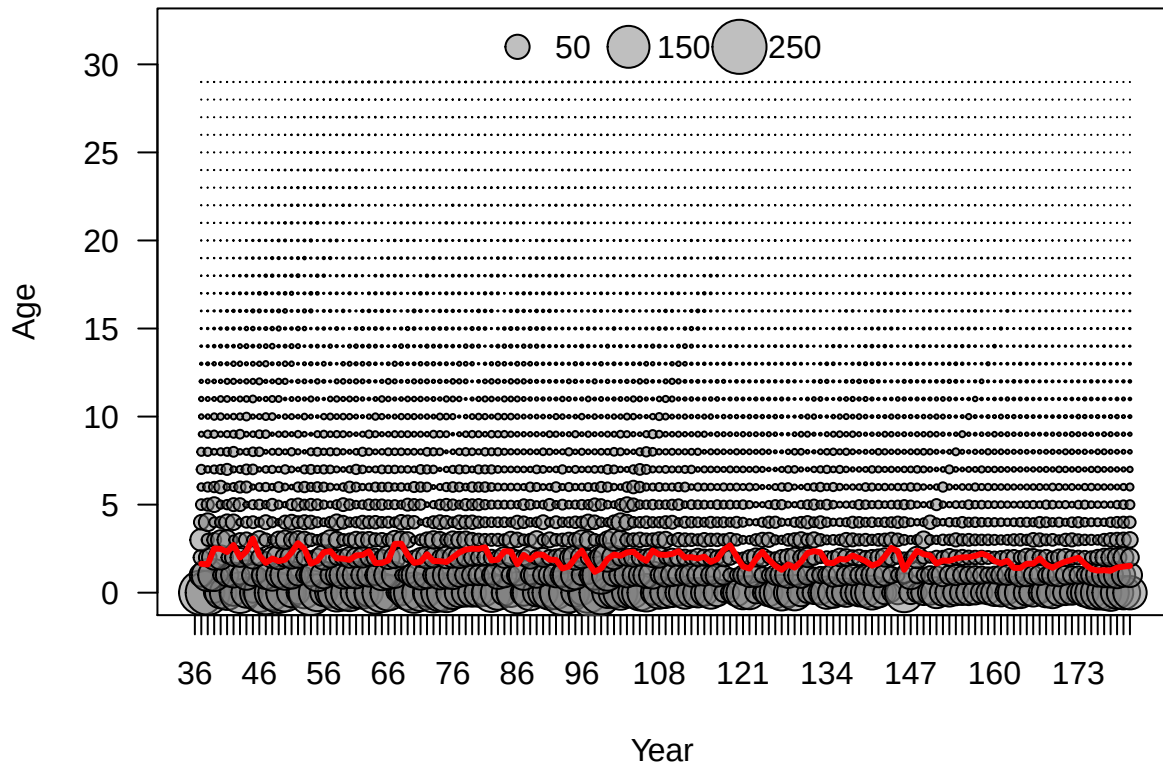


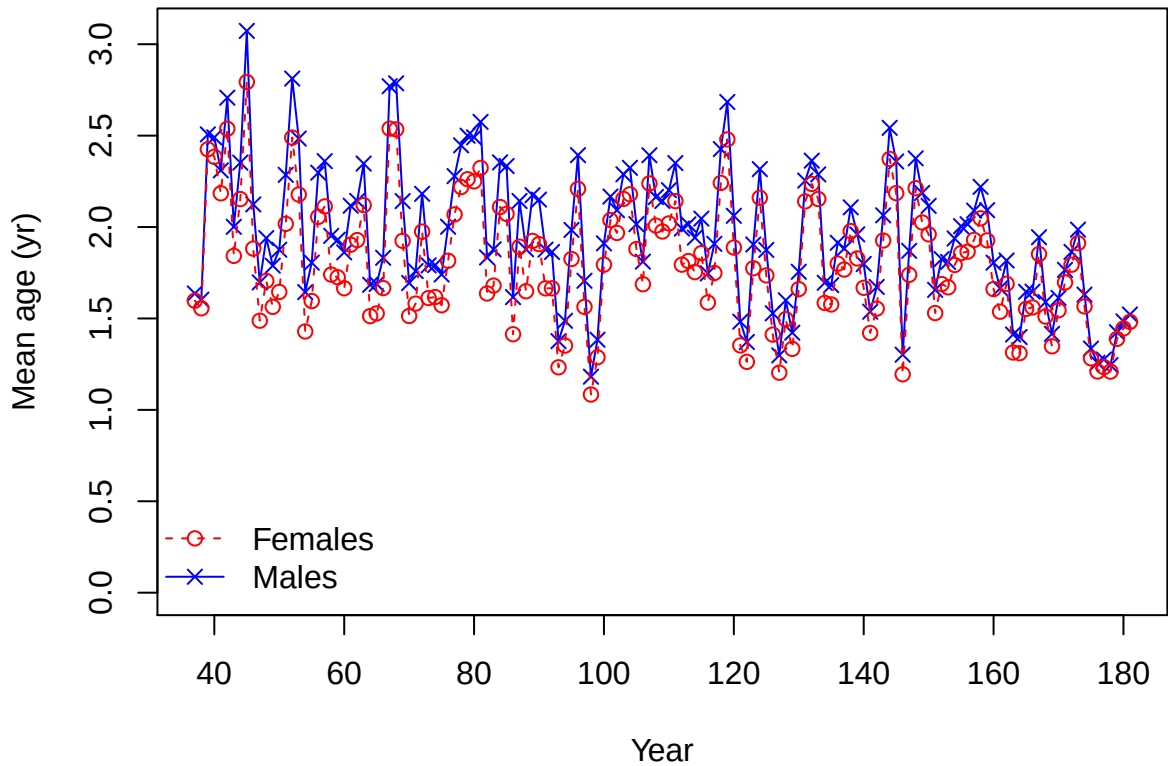


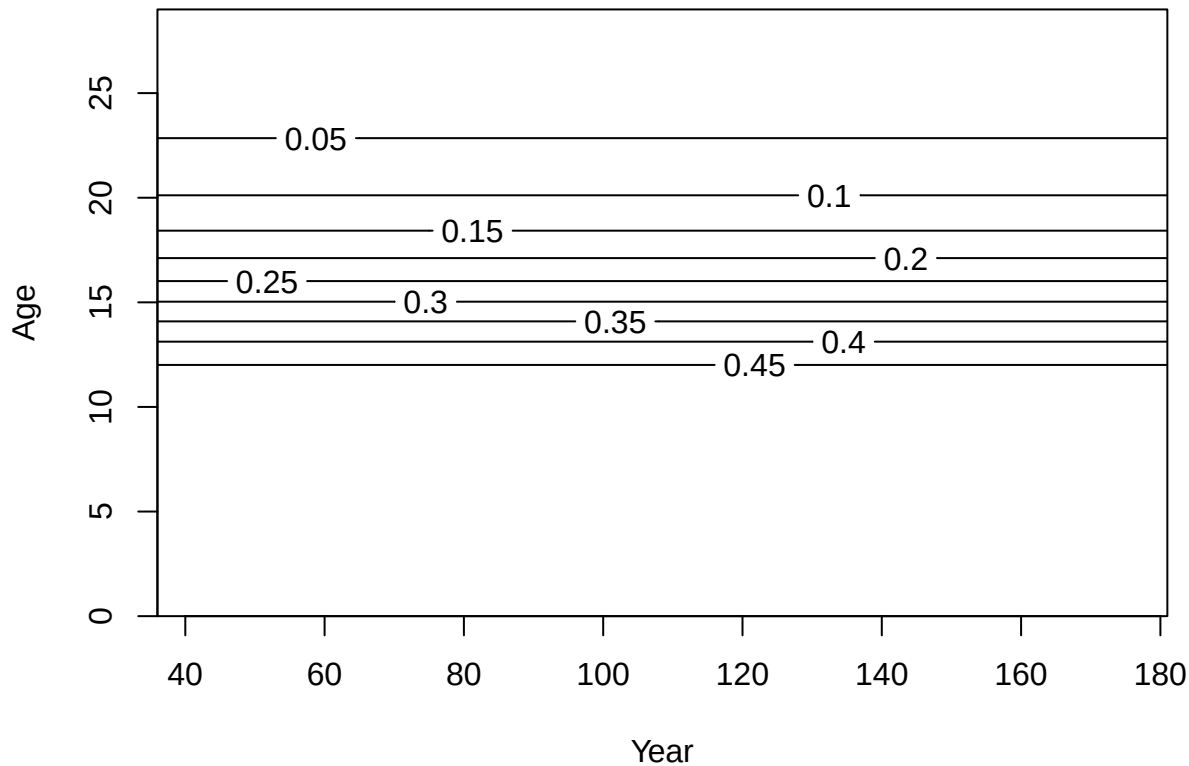


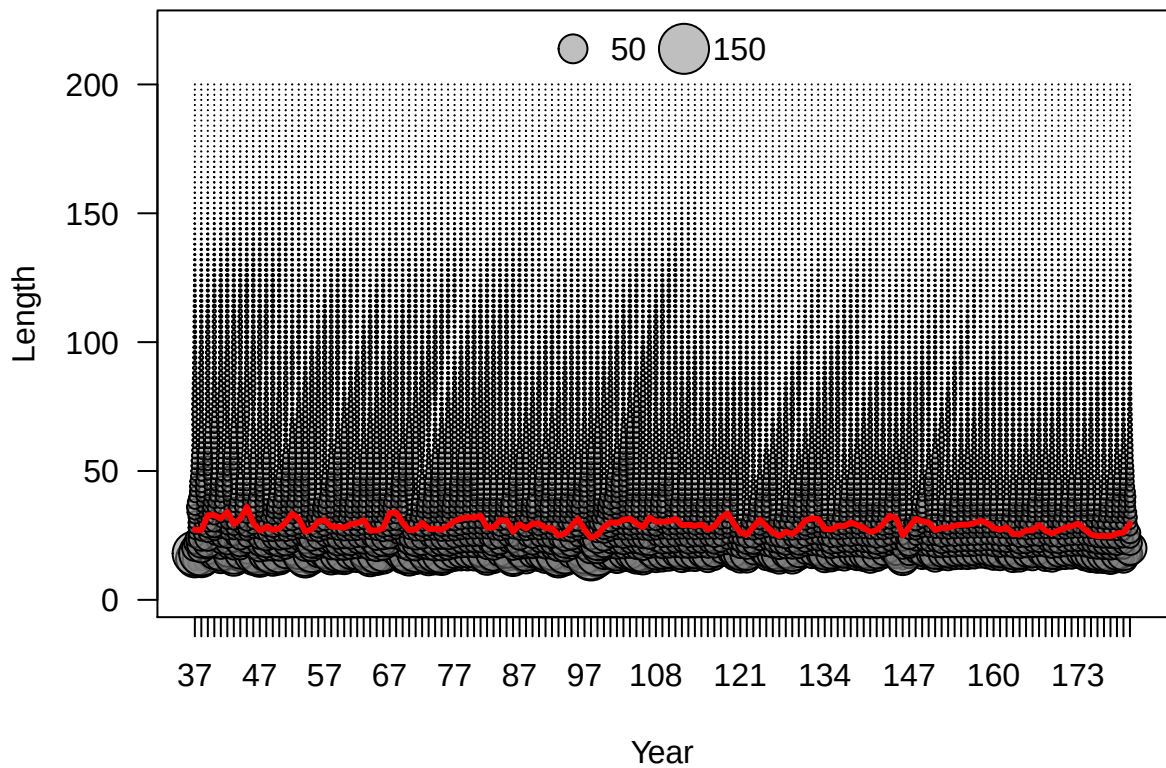


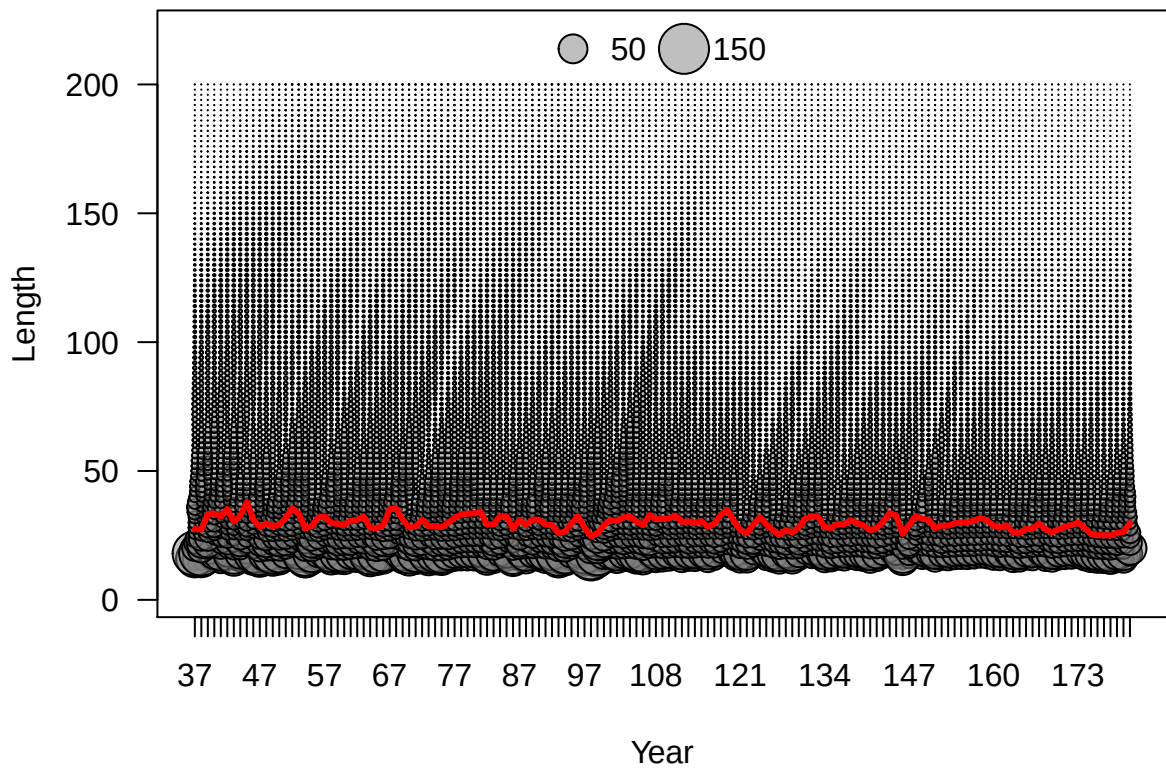


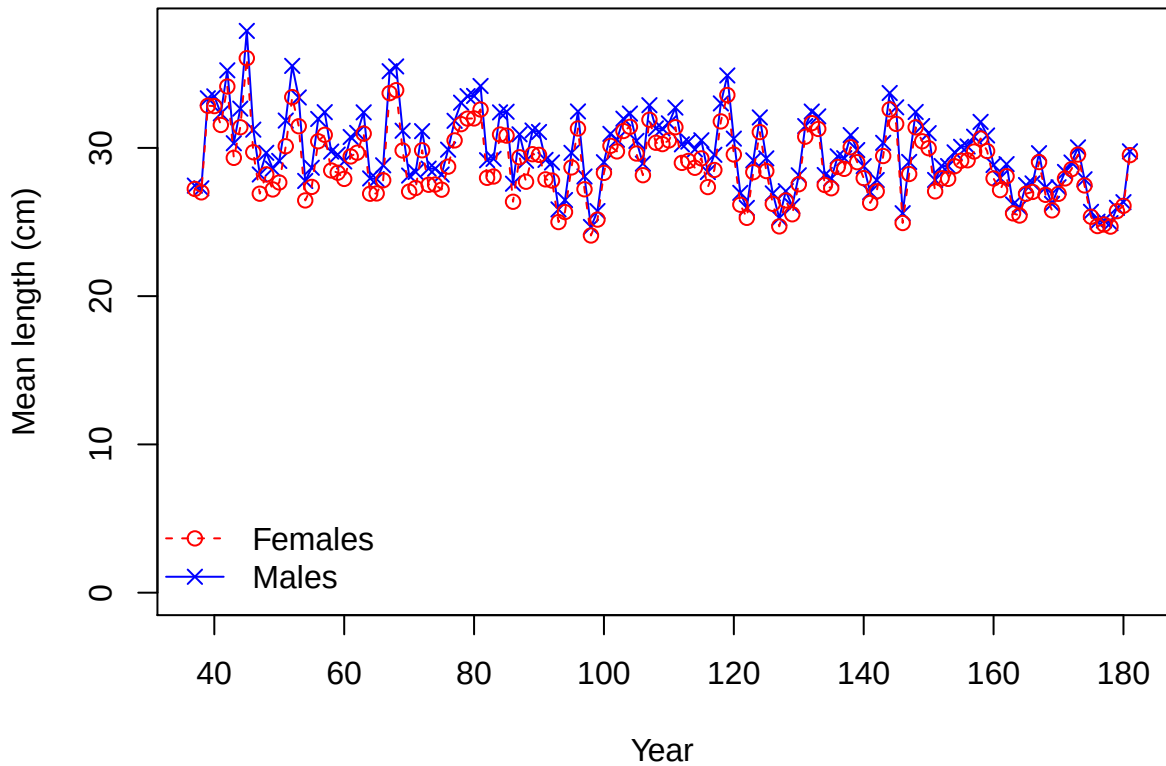


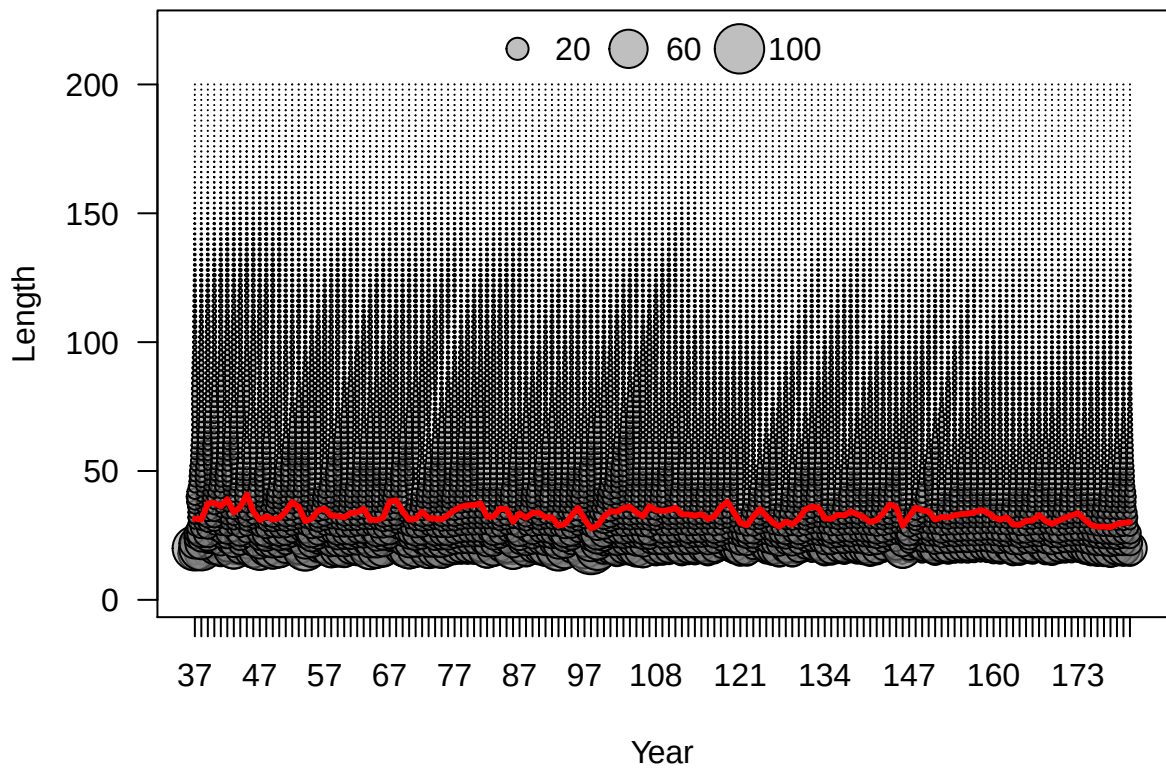


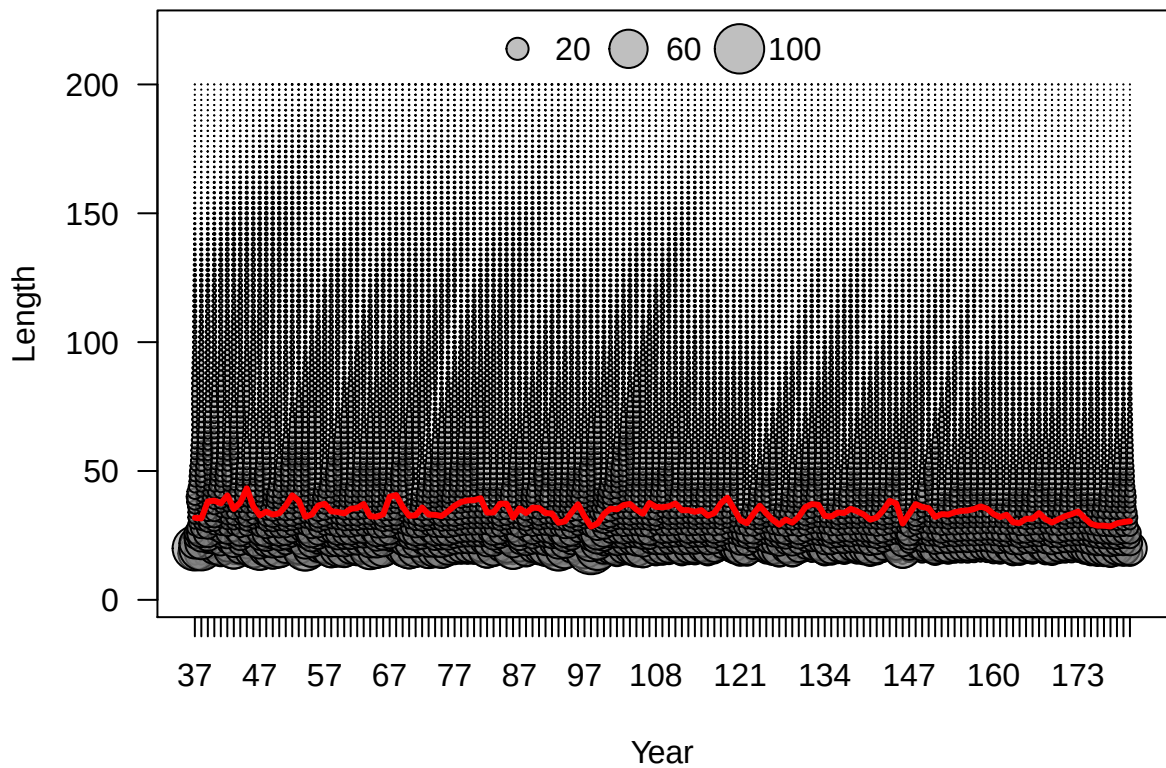


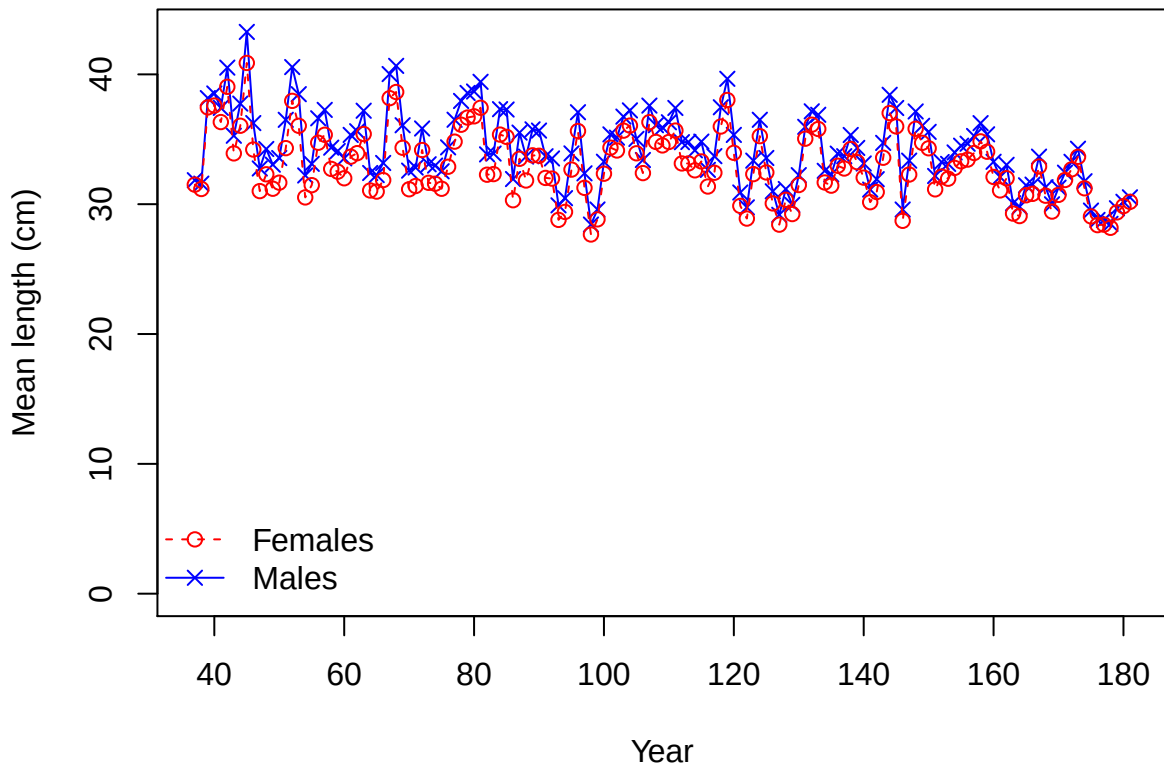


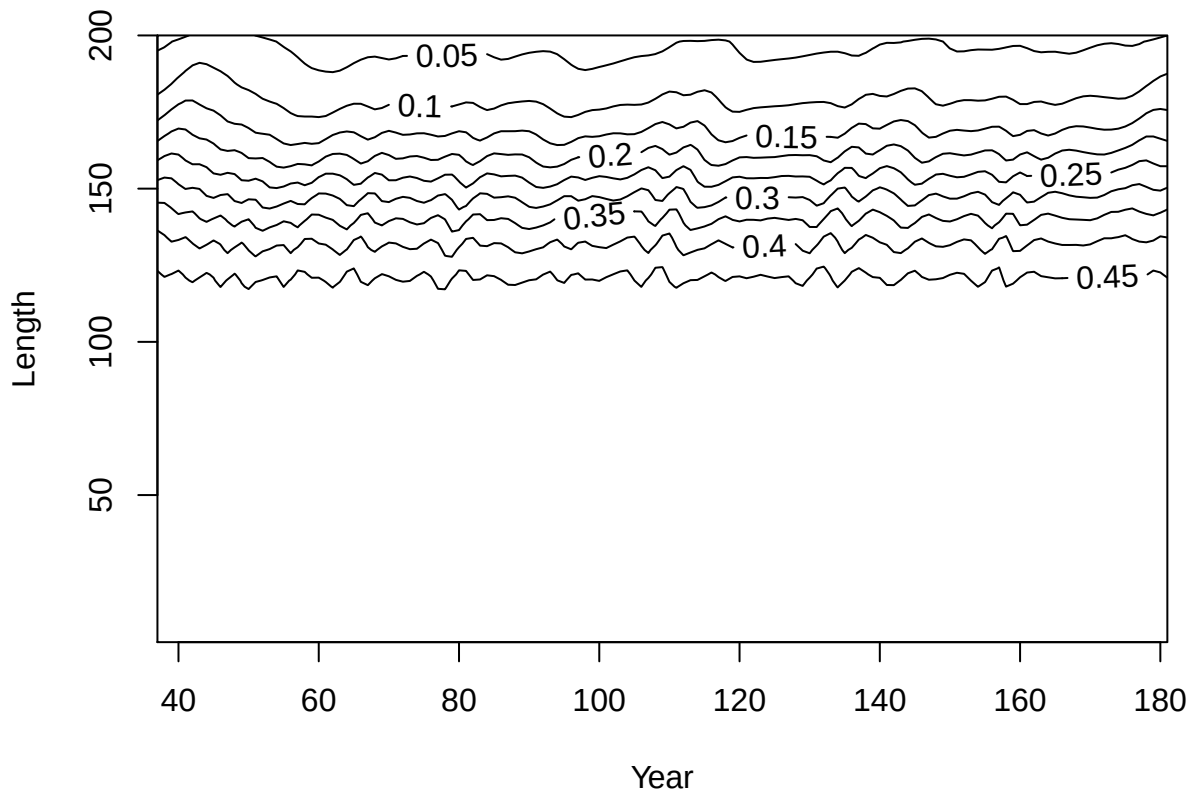


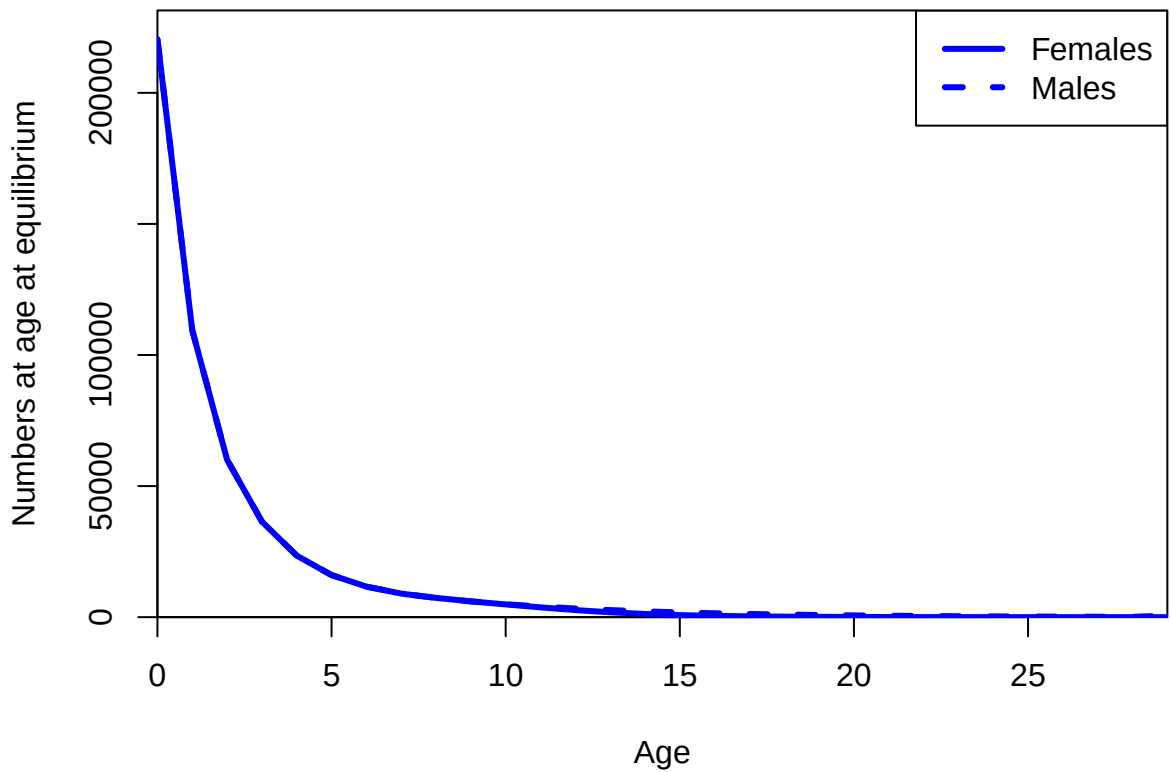


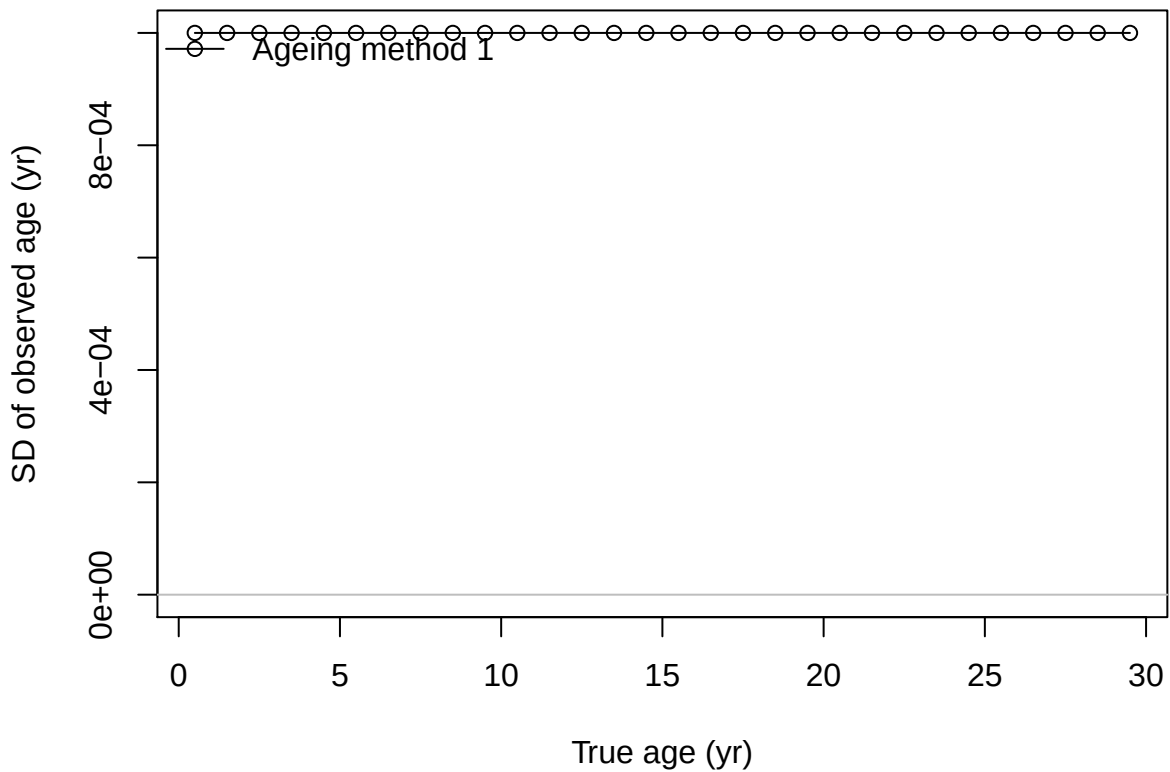


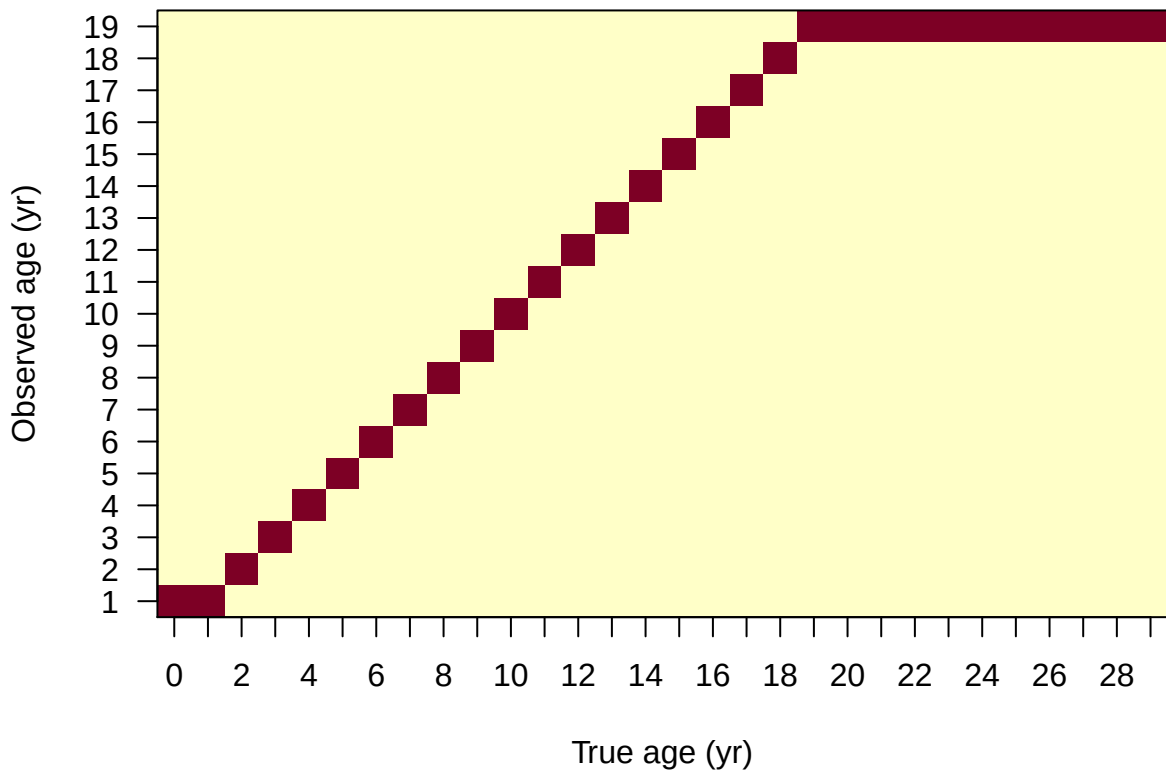




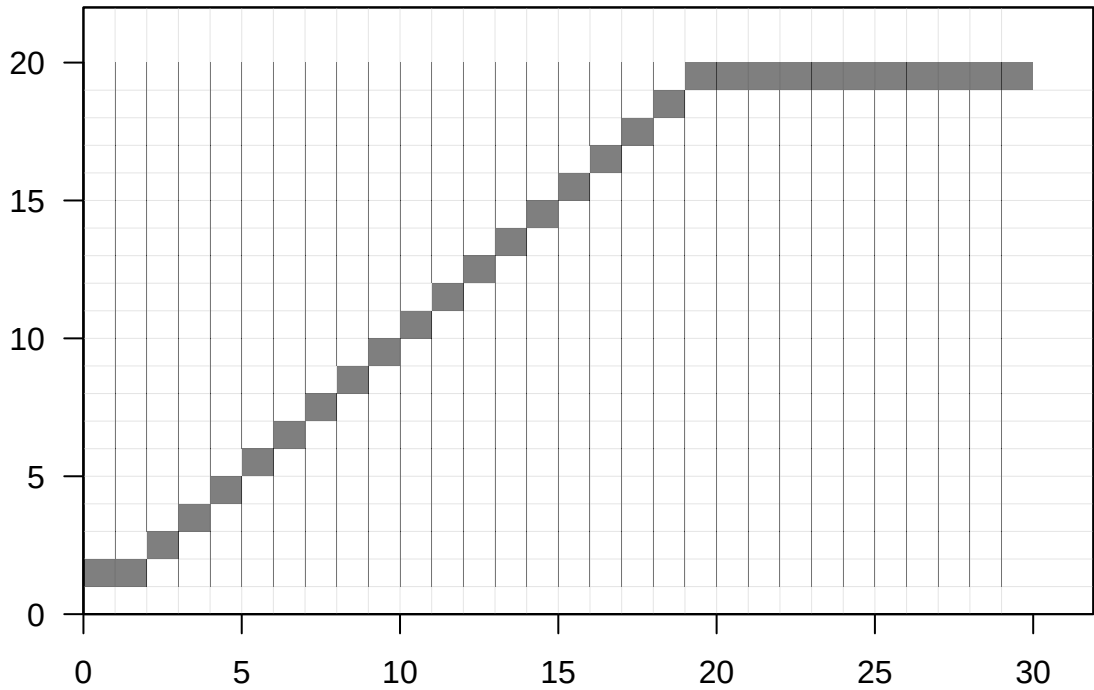






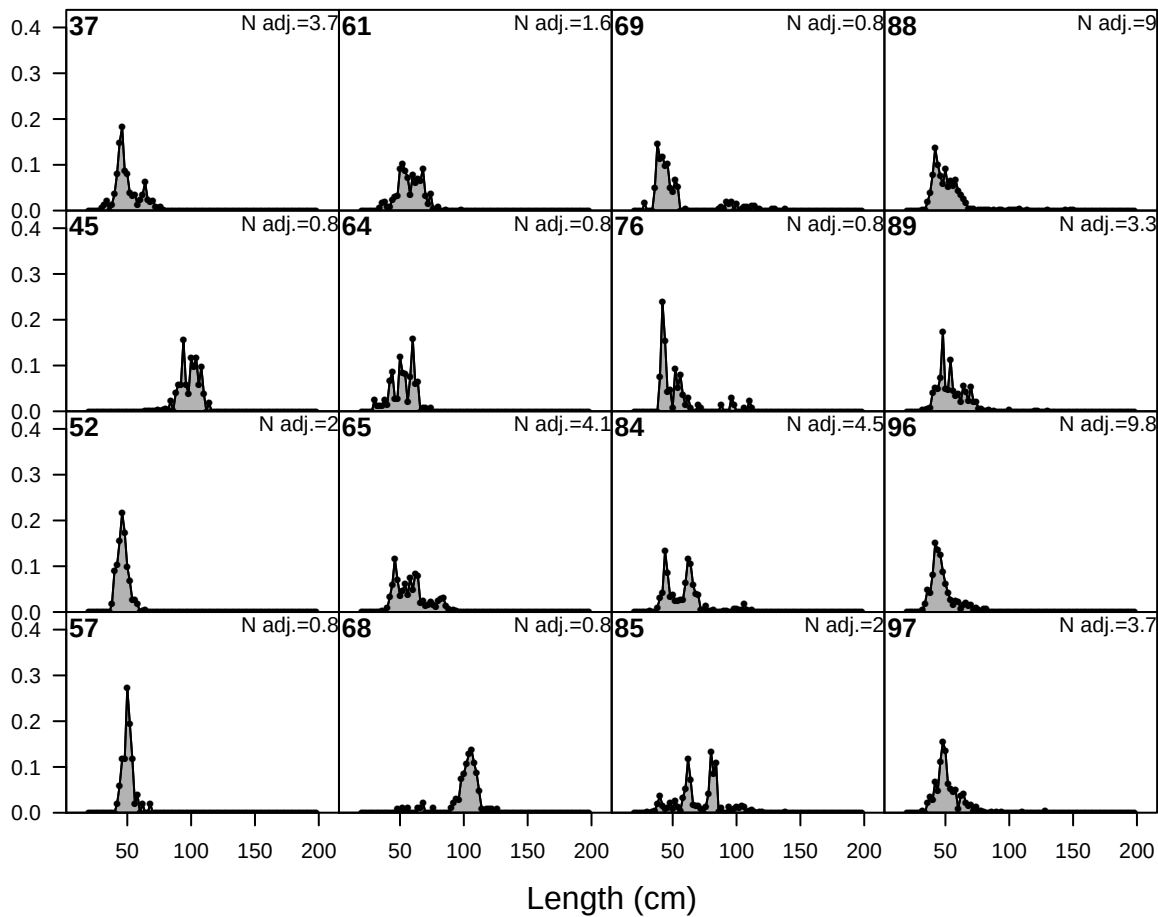


Observed age

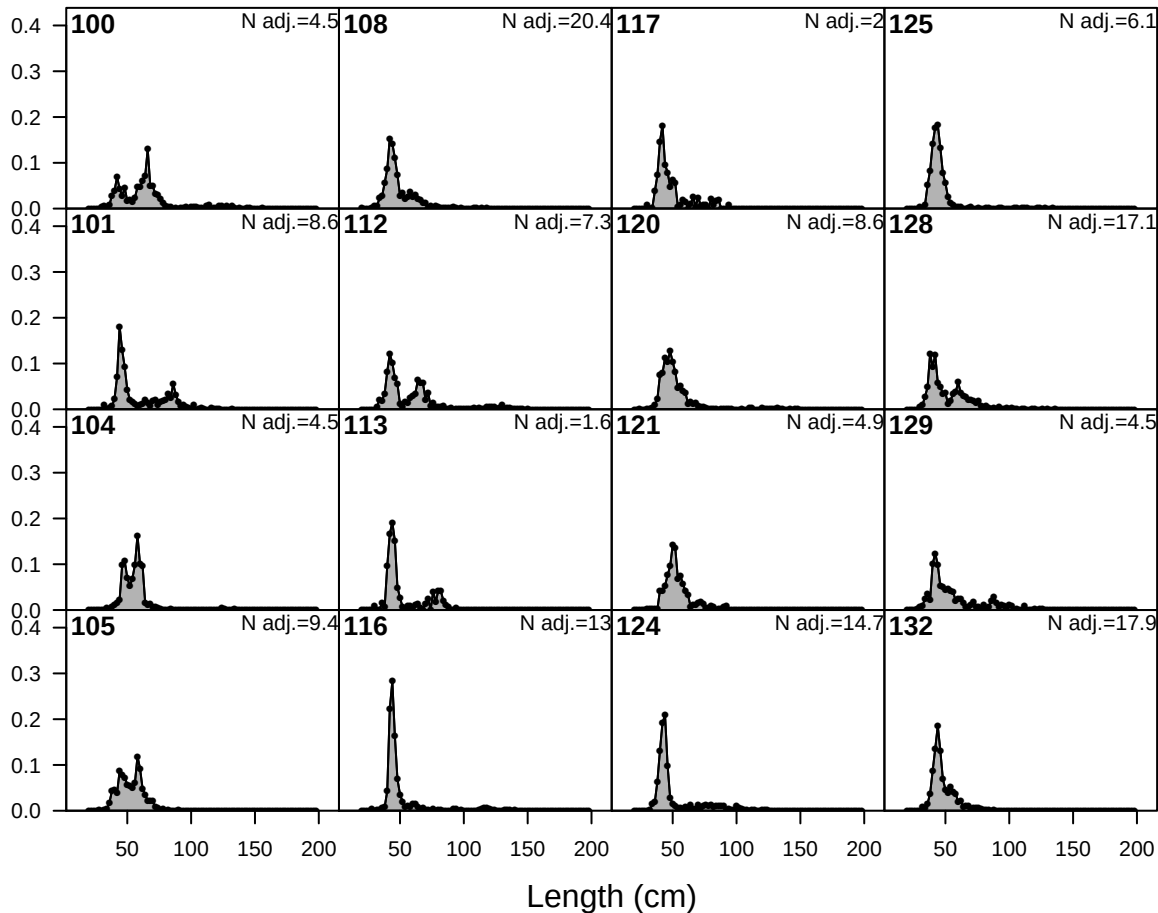


True age

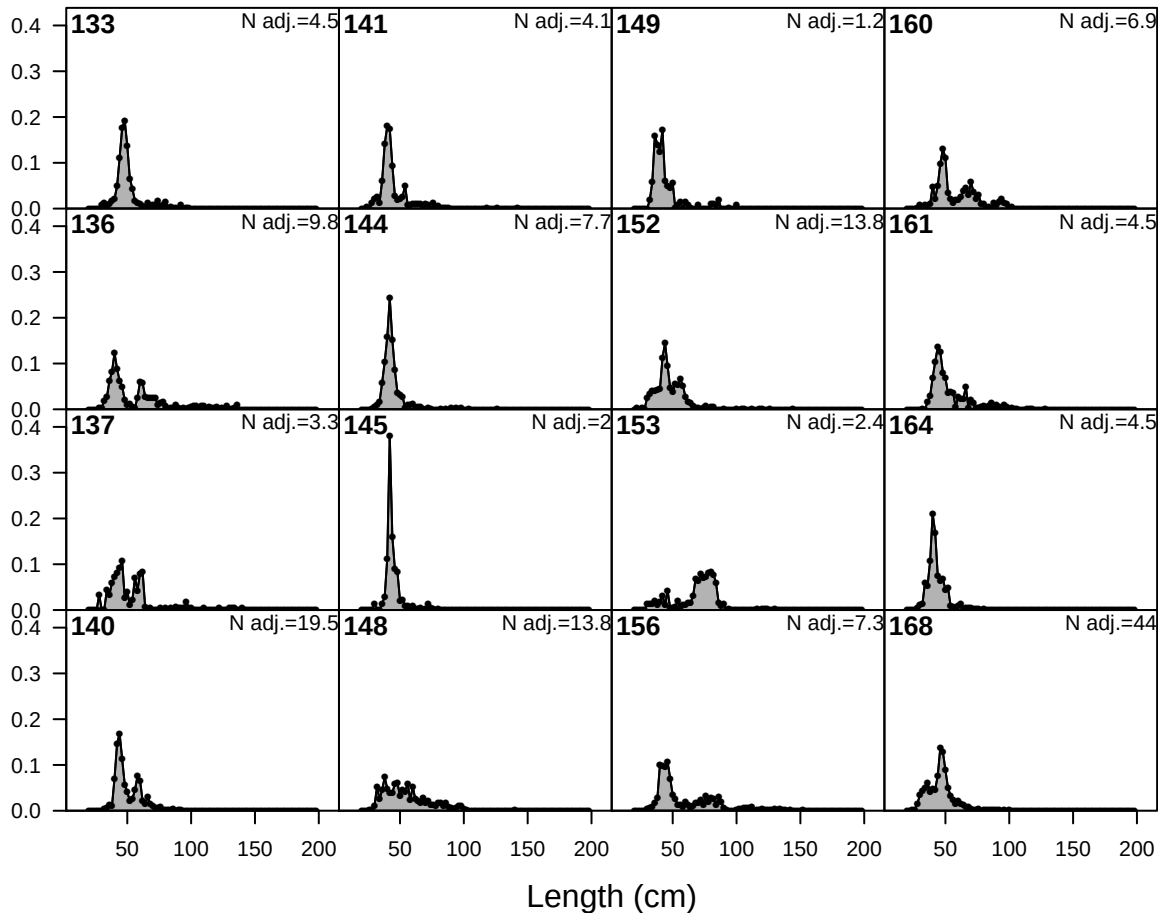
Proportion

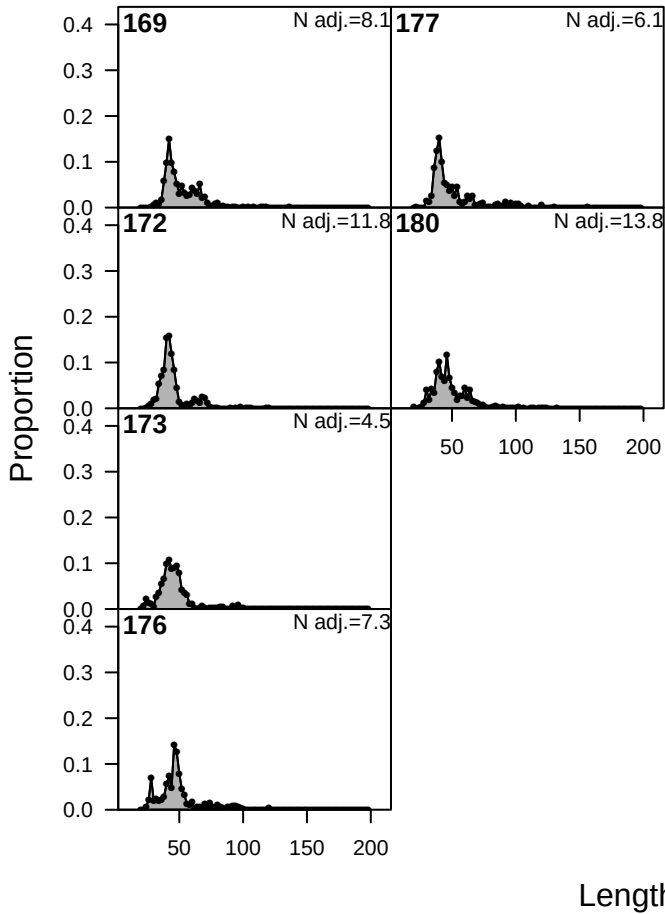


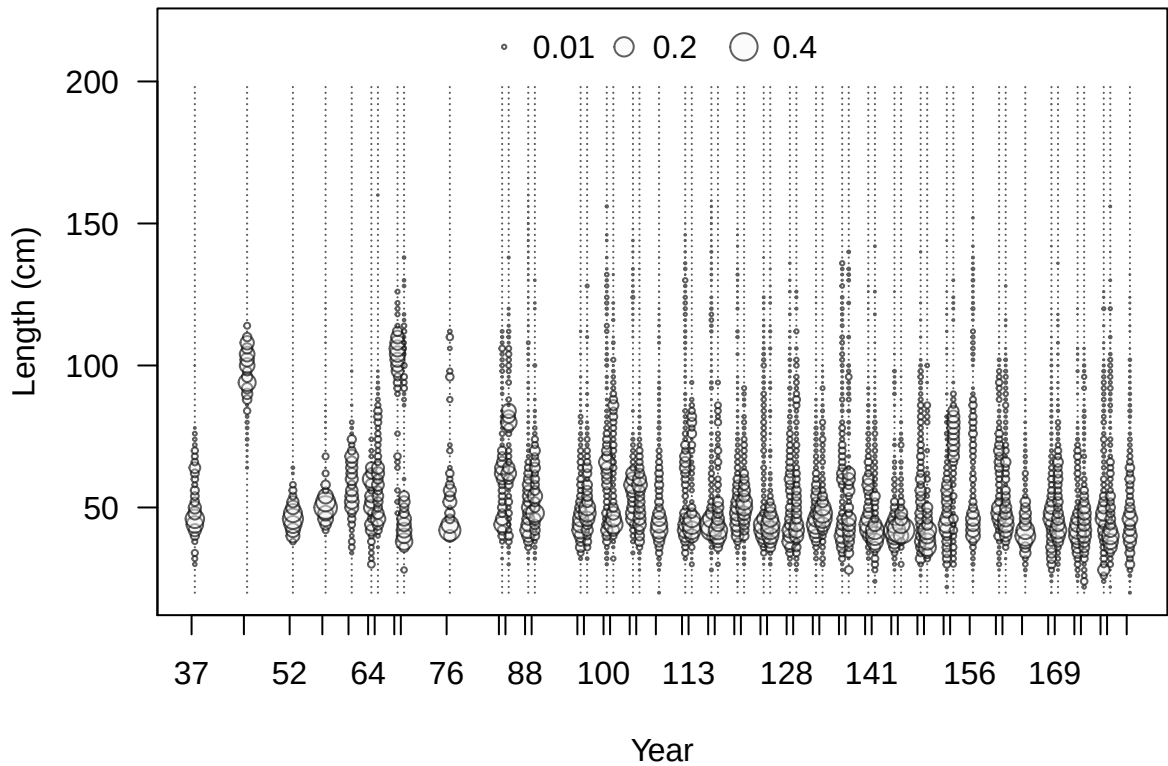
Proportion



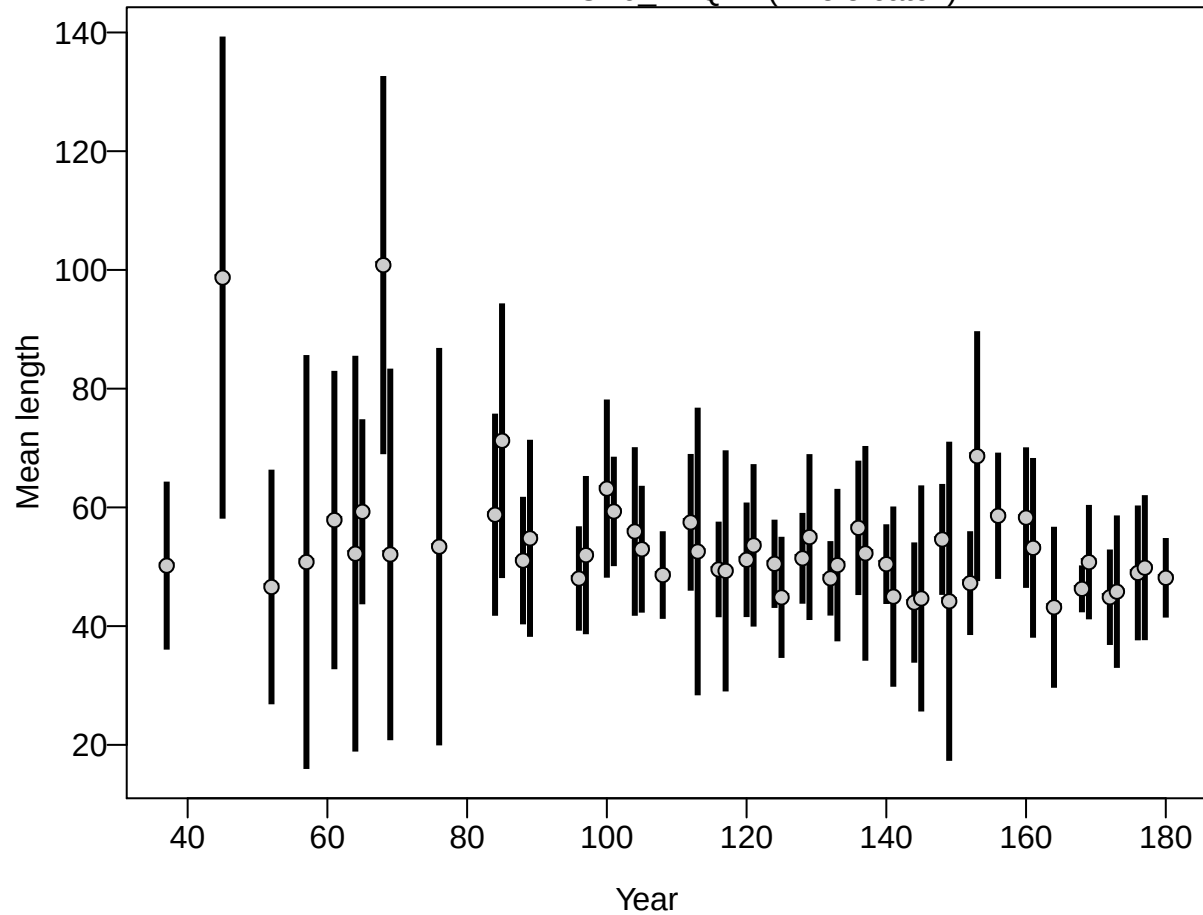
Proportion

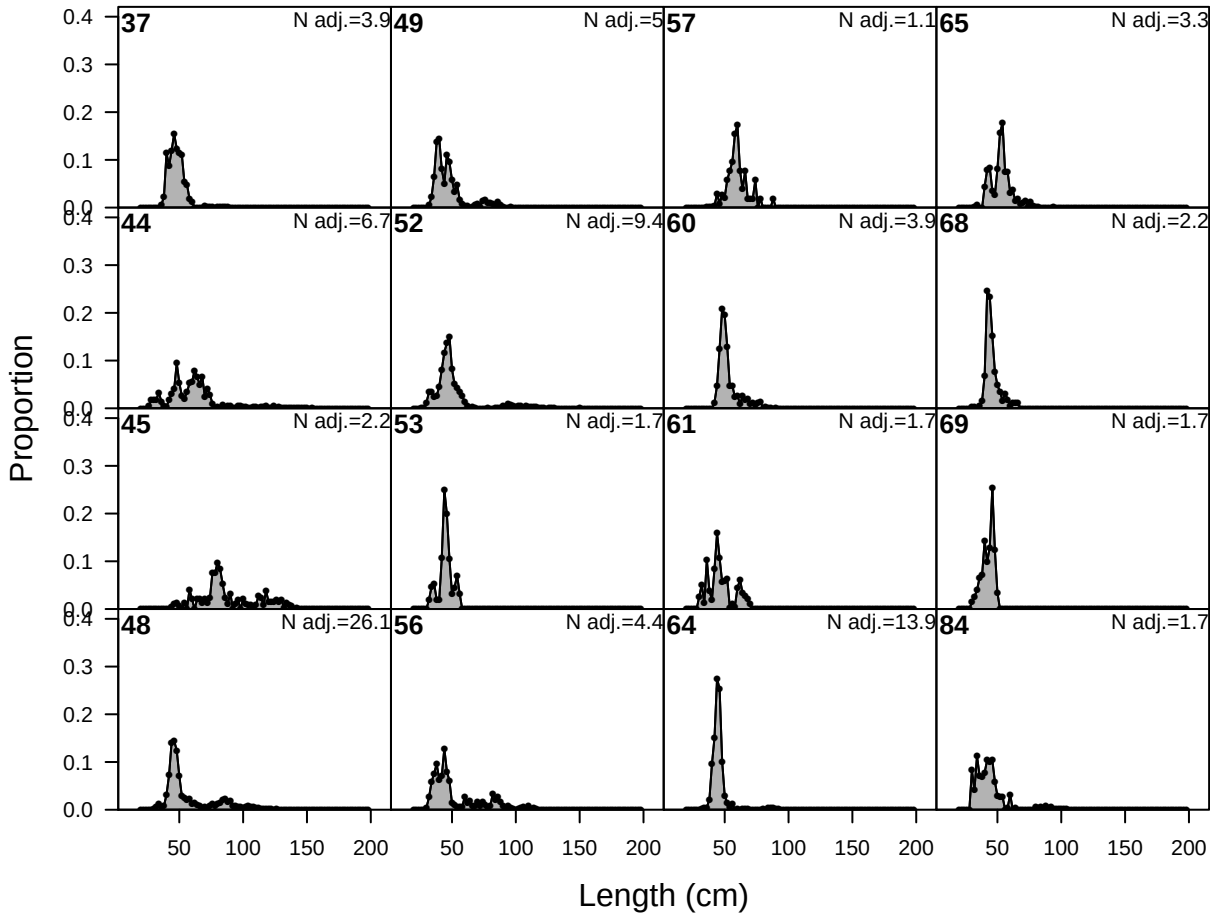




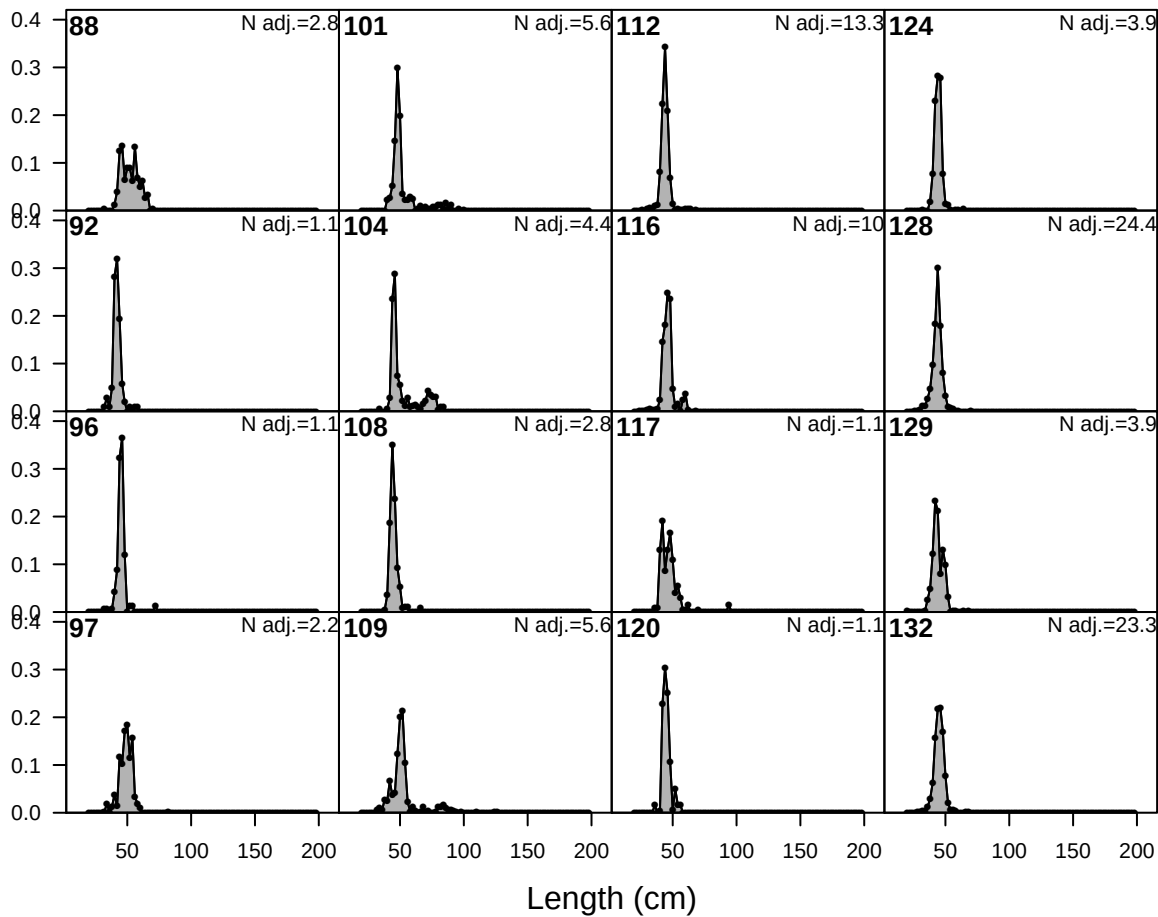


F1-OBJ_N-Q14 (whole catch)

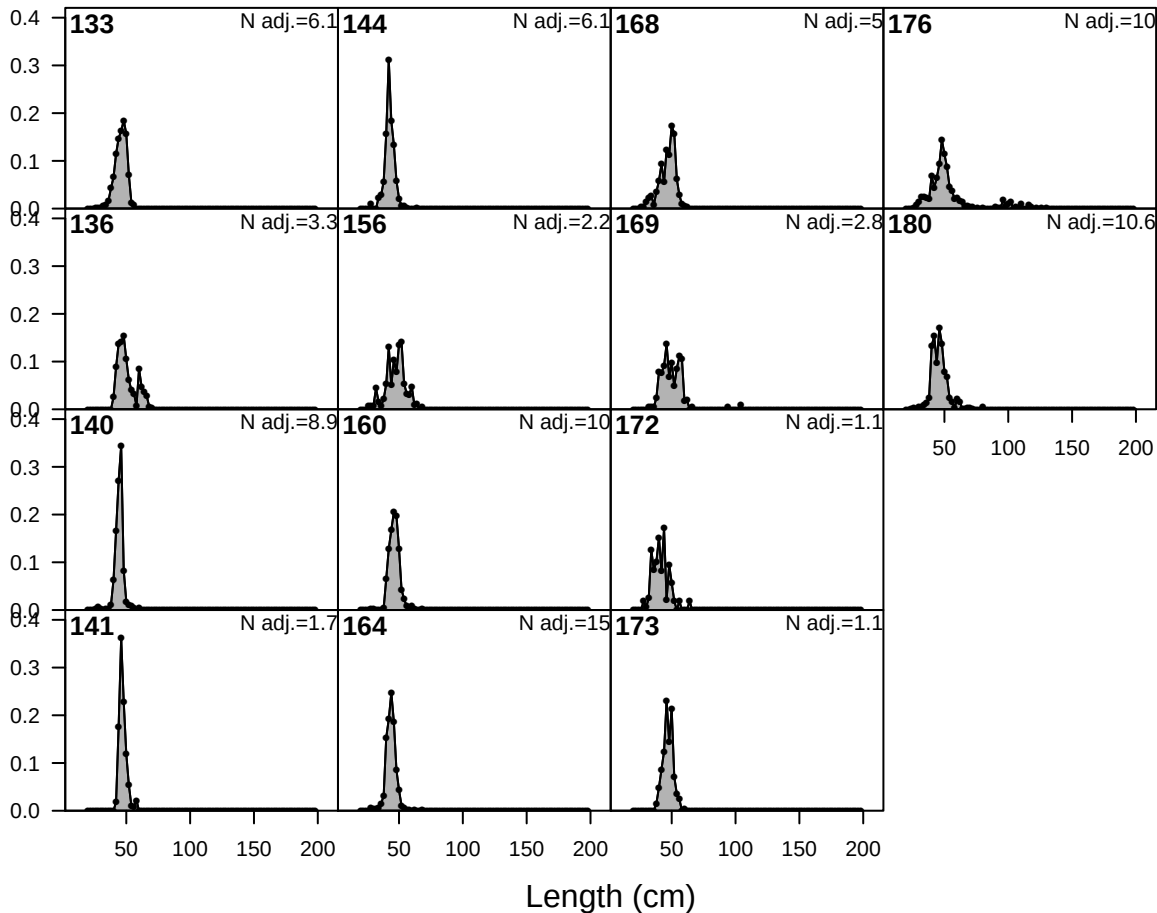


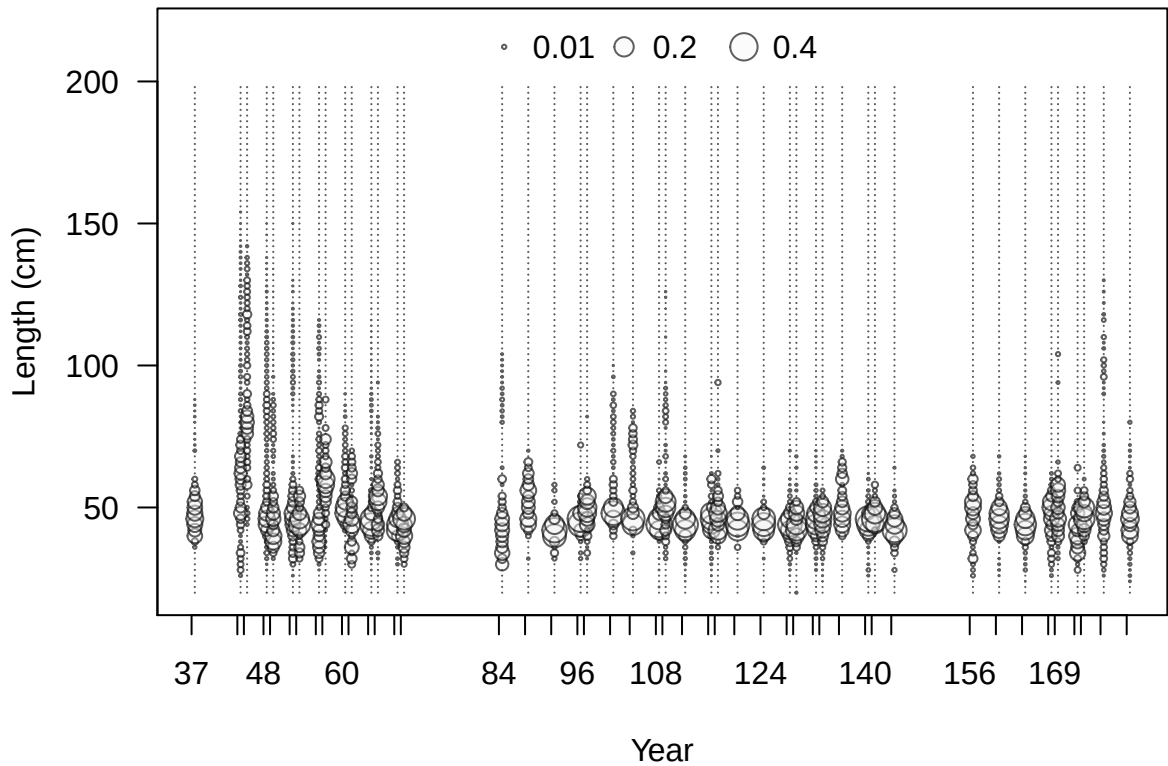


Proportion

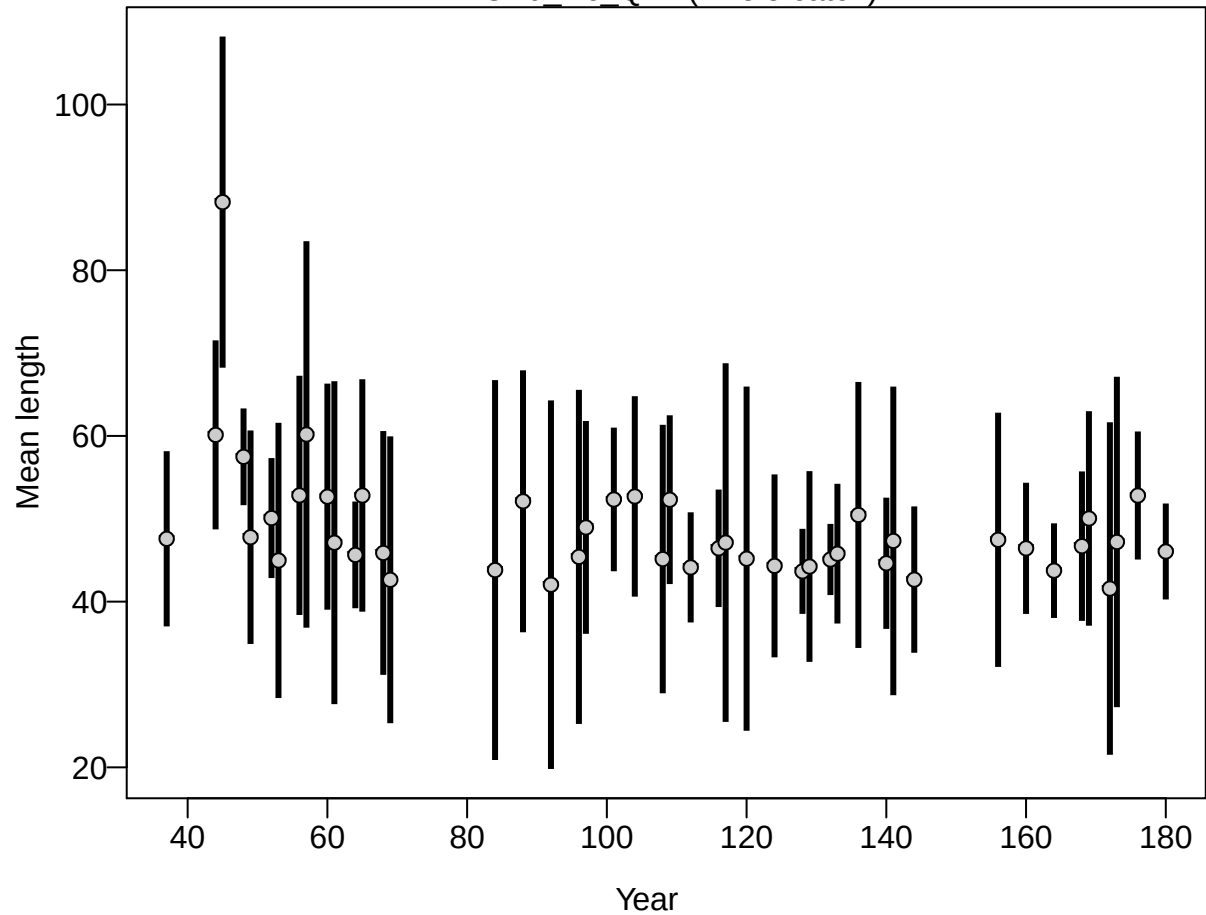


Proportion

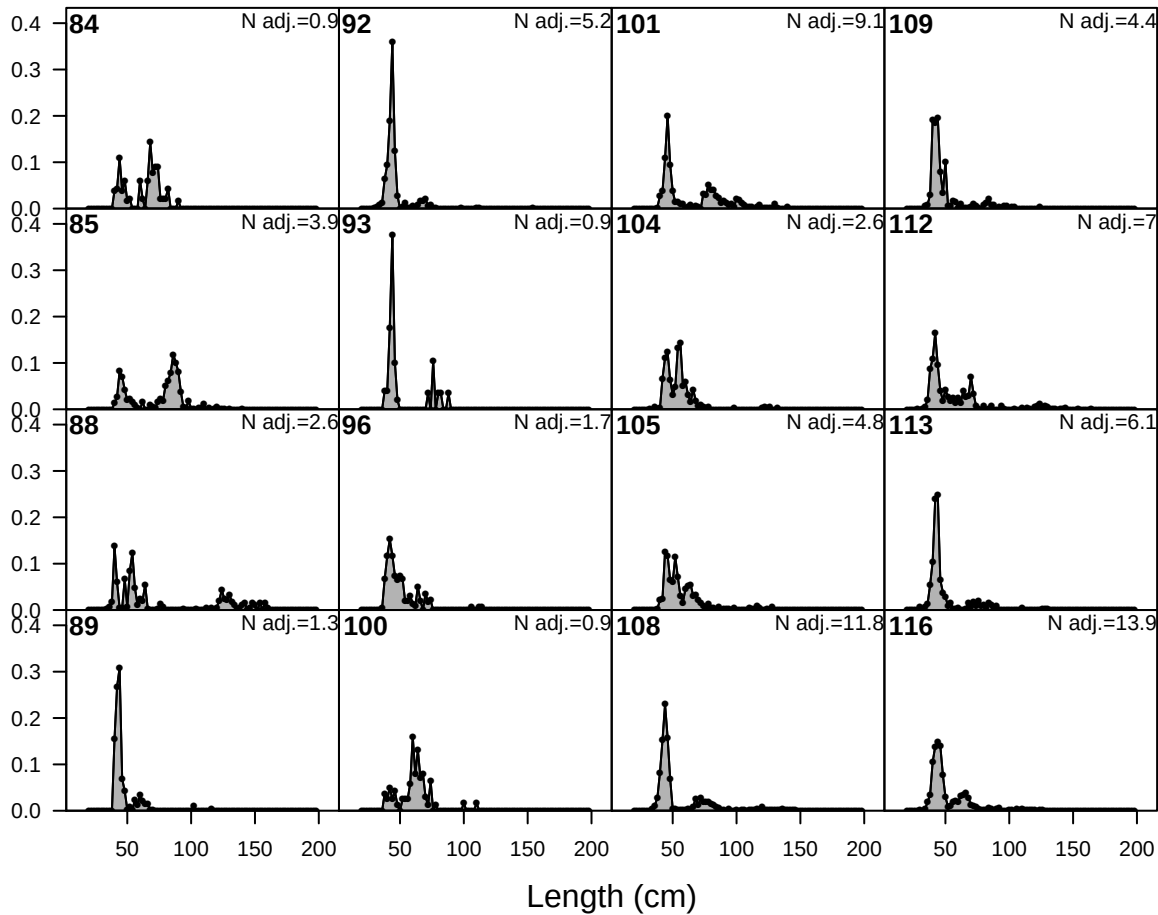




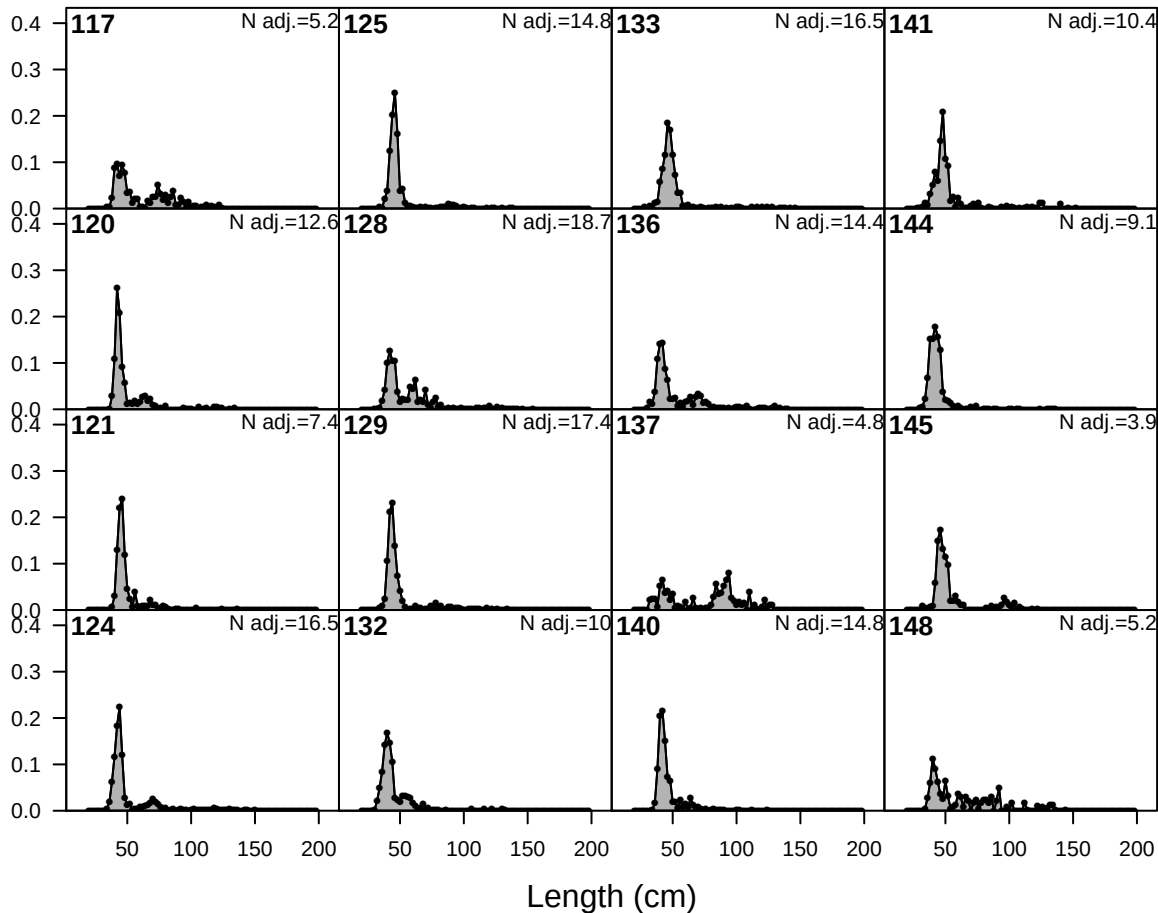
F2-OBJ_Nc_Q14 (whole catch)



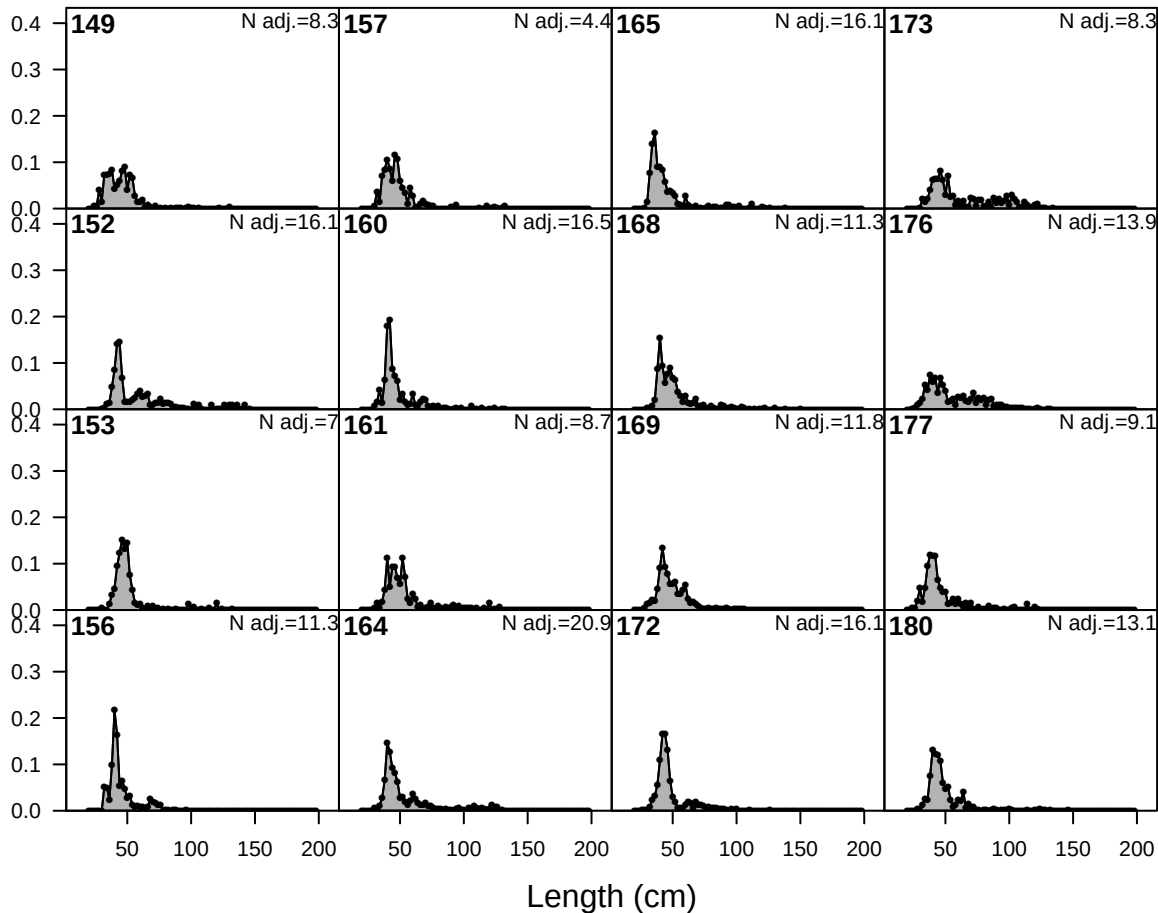
Proportion

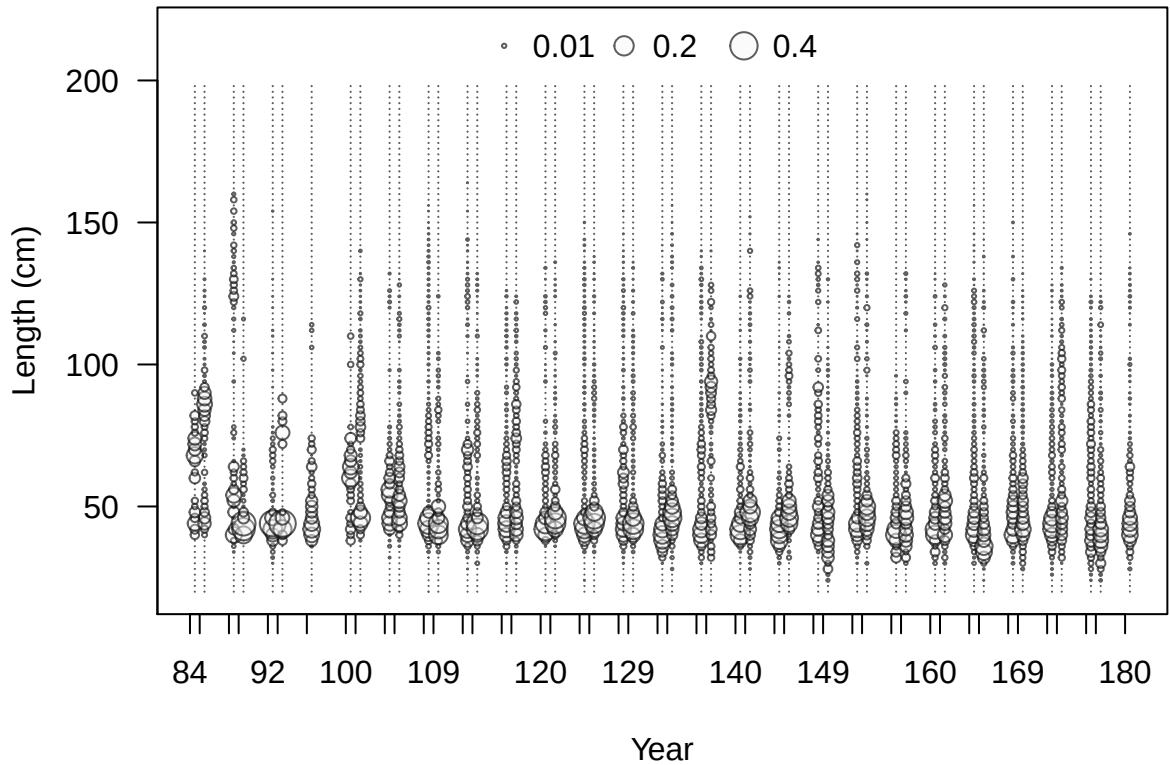


Proportion

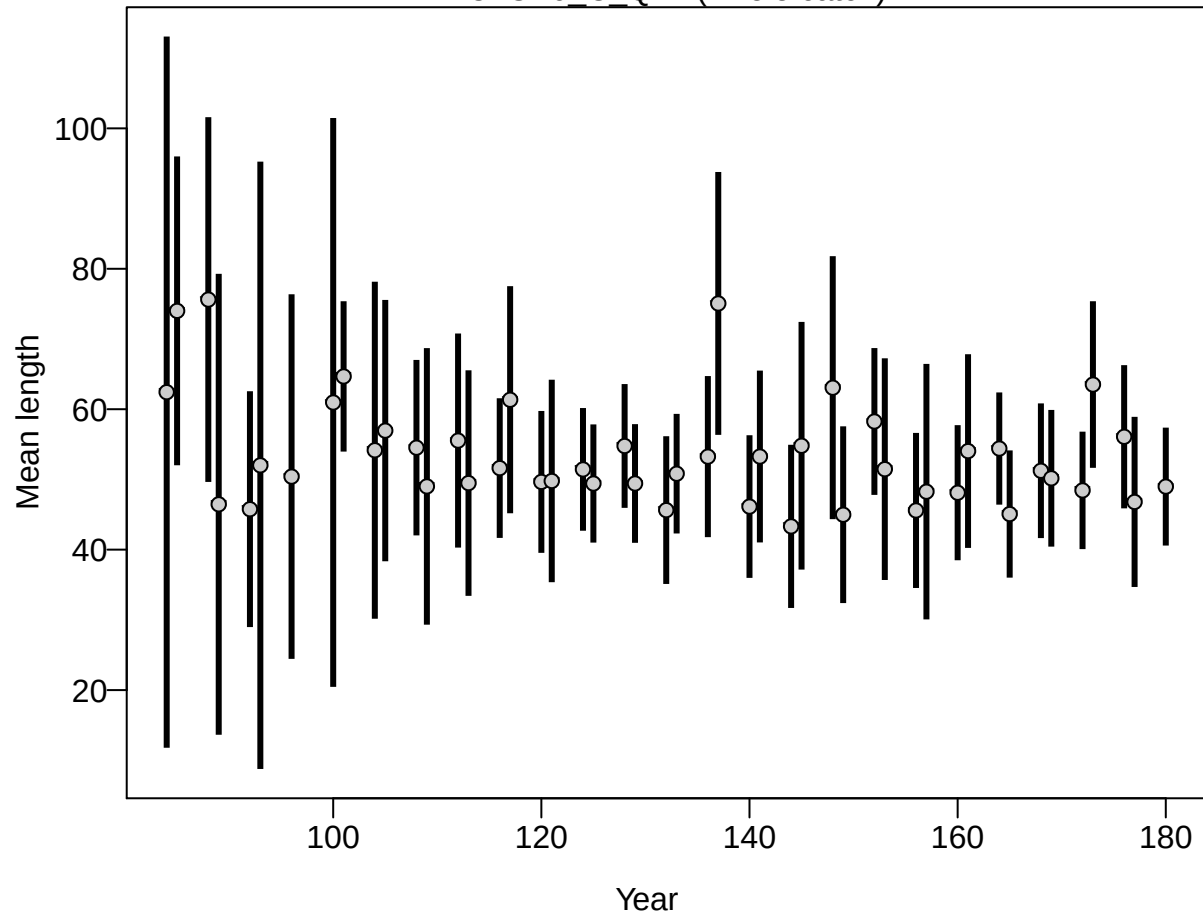


Proportion

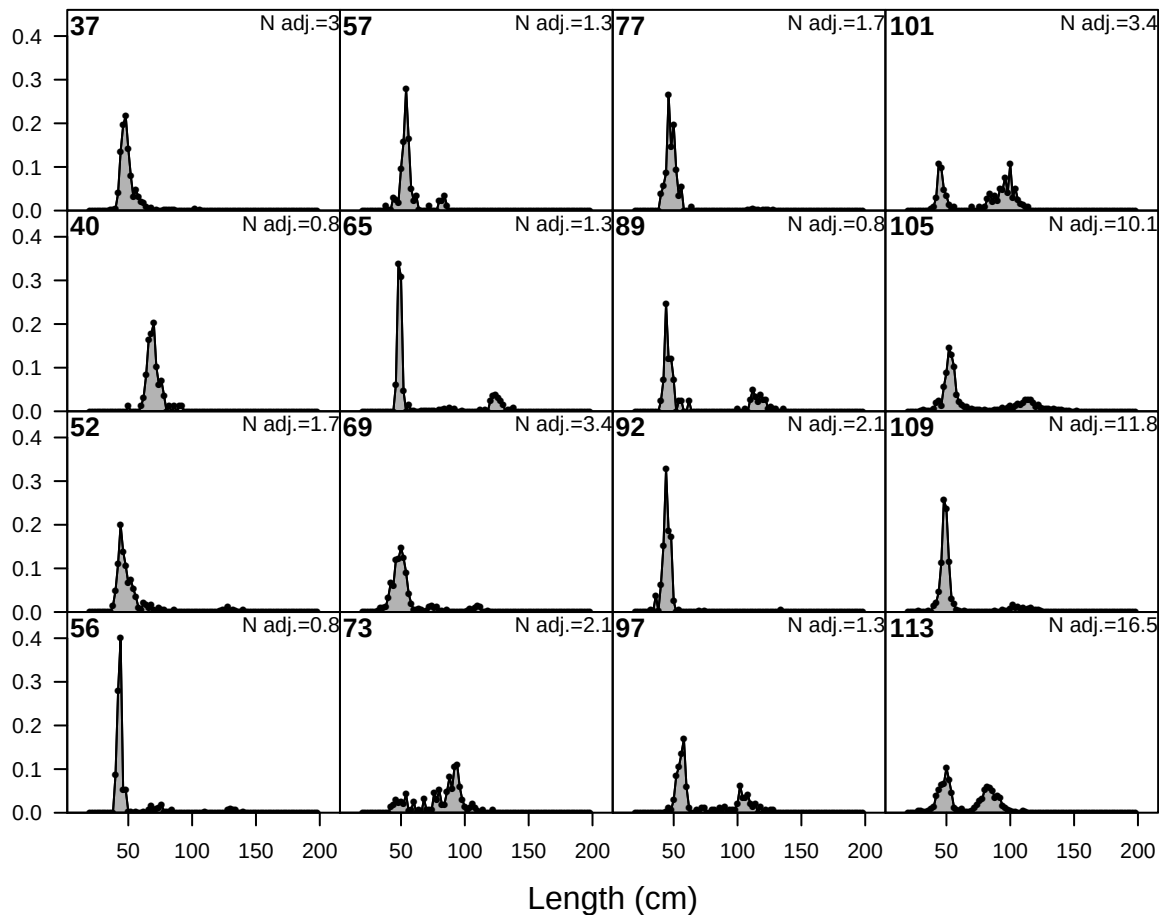




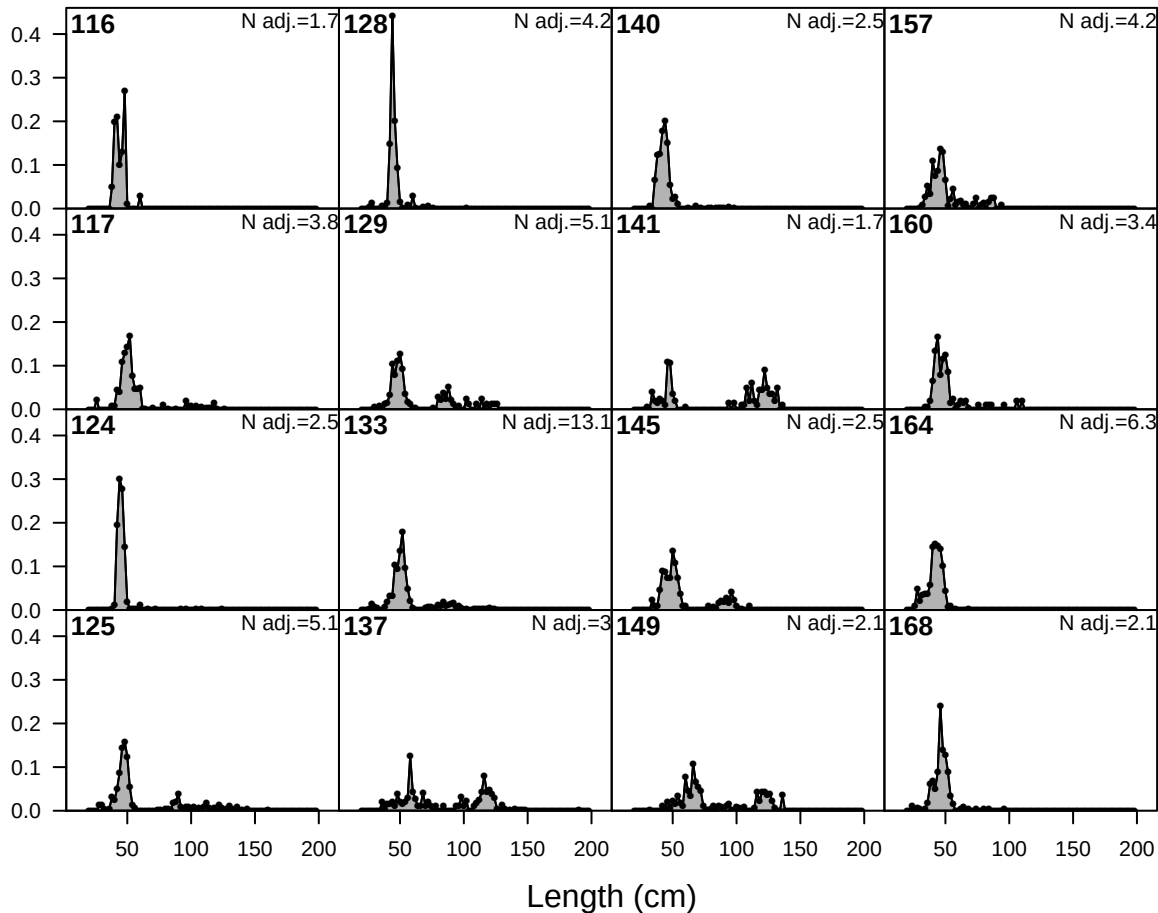
F3-OBJ_C_Q14 (whole catch)



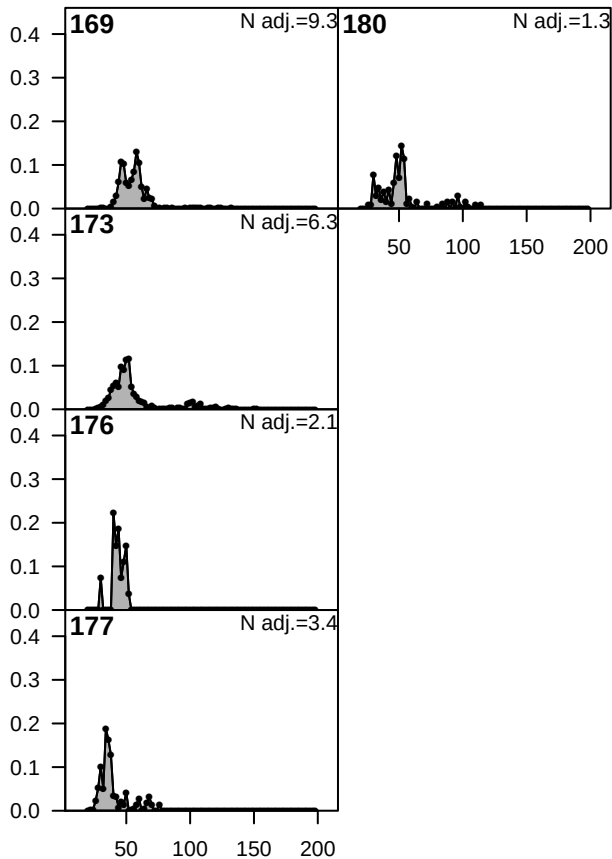
Proportion



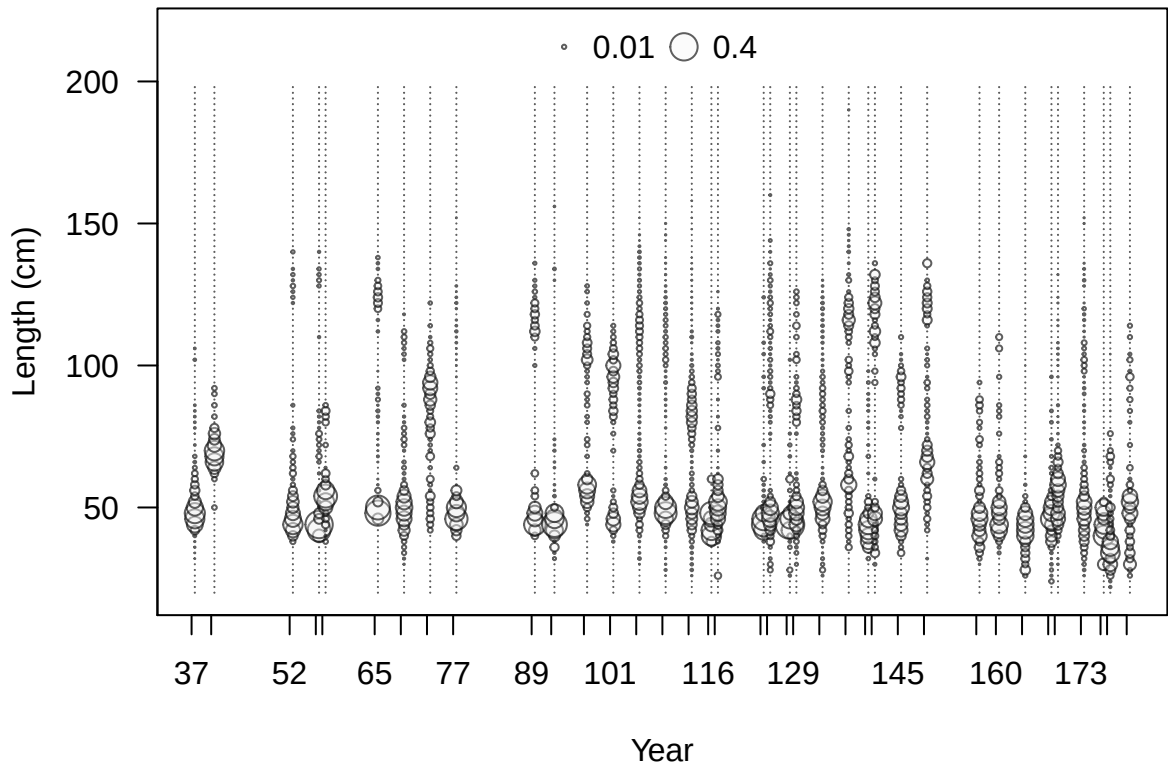
Proportion



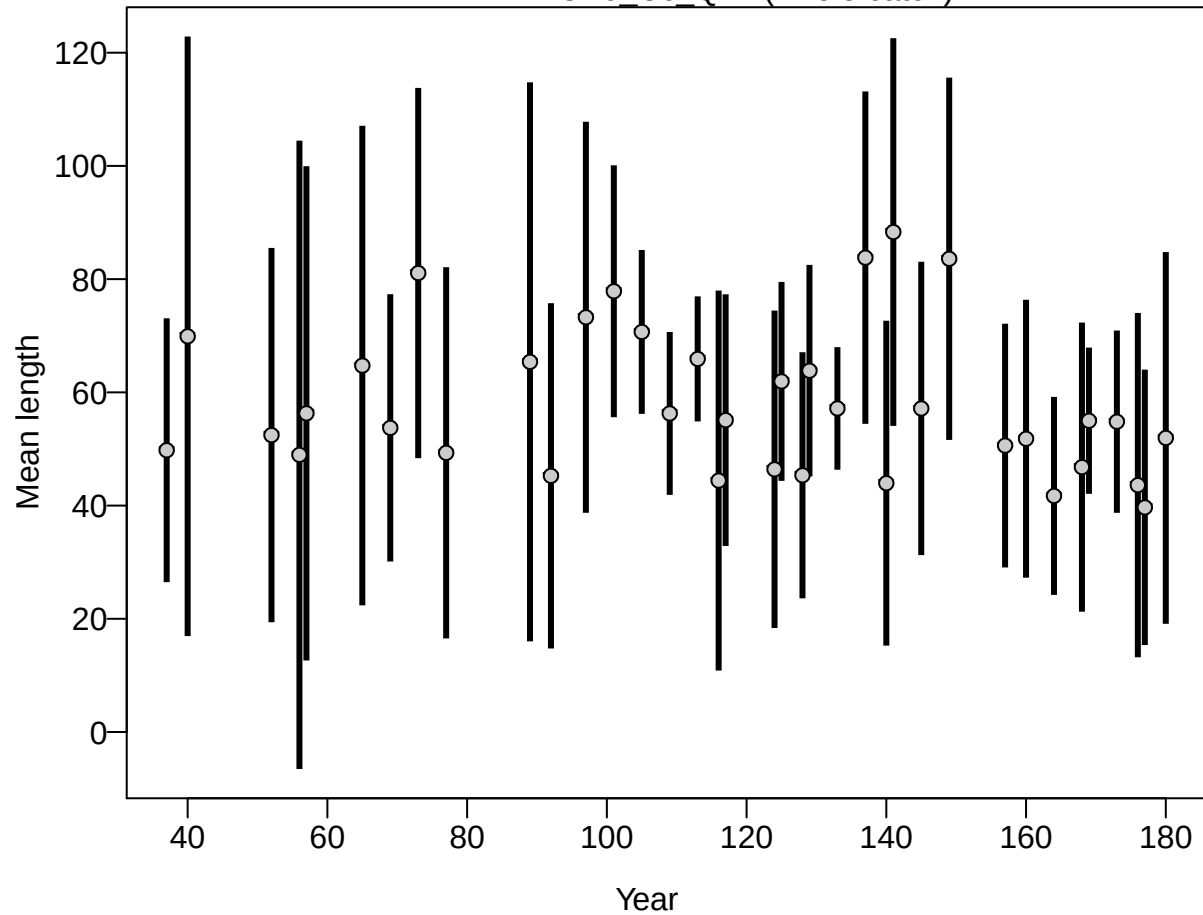
Proportion

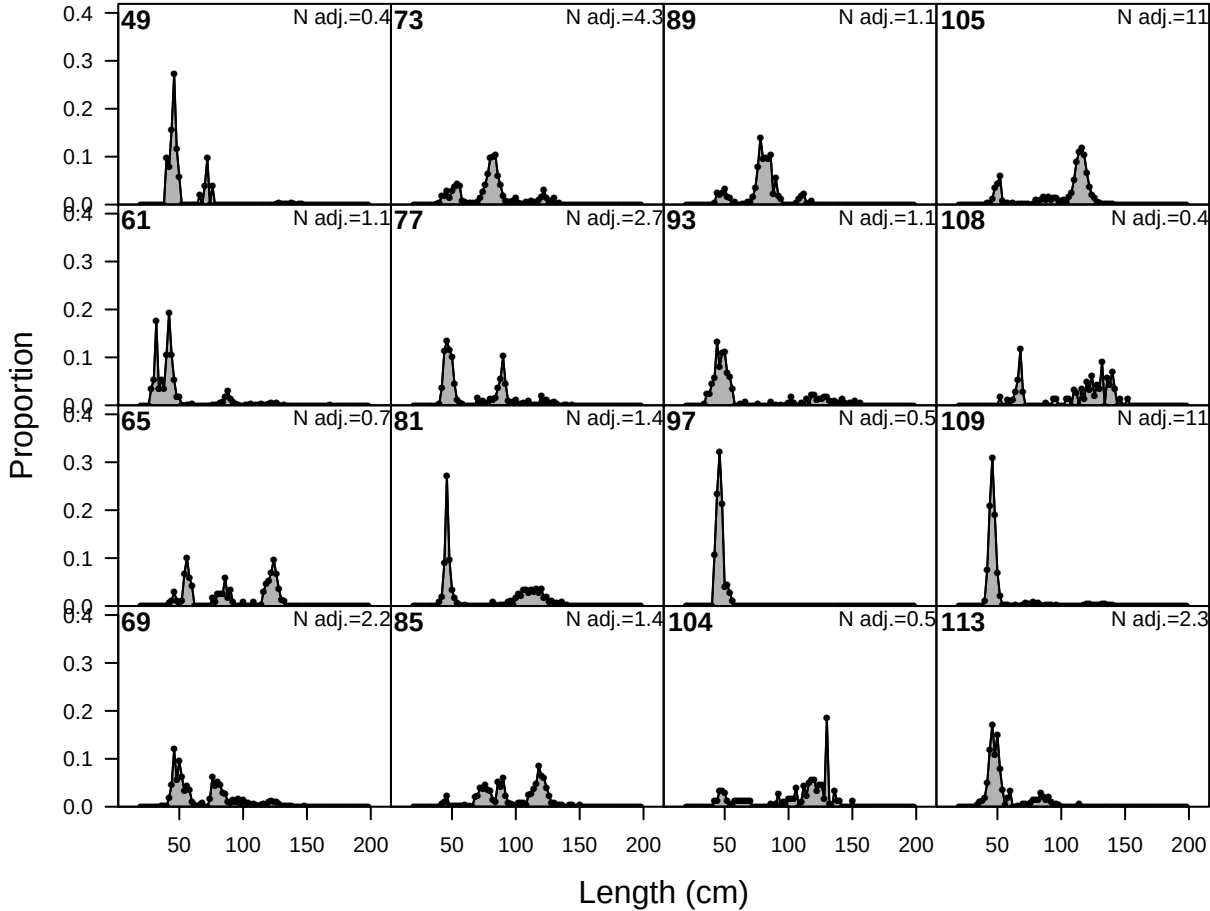


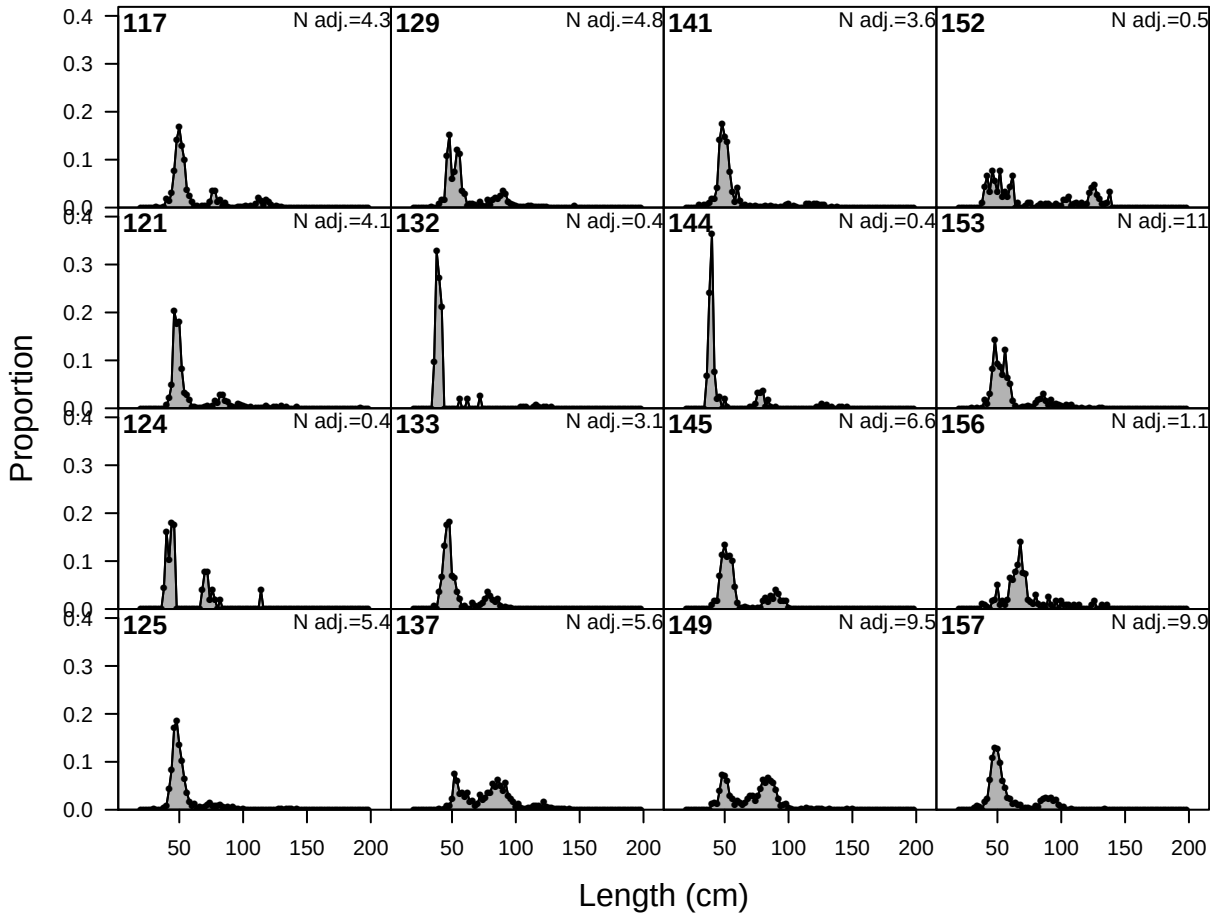
Length (cm)

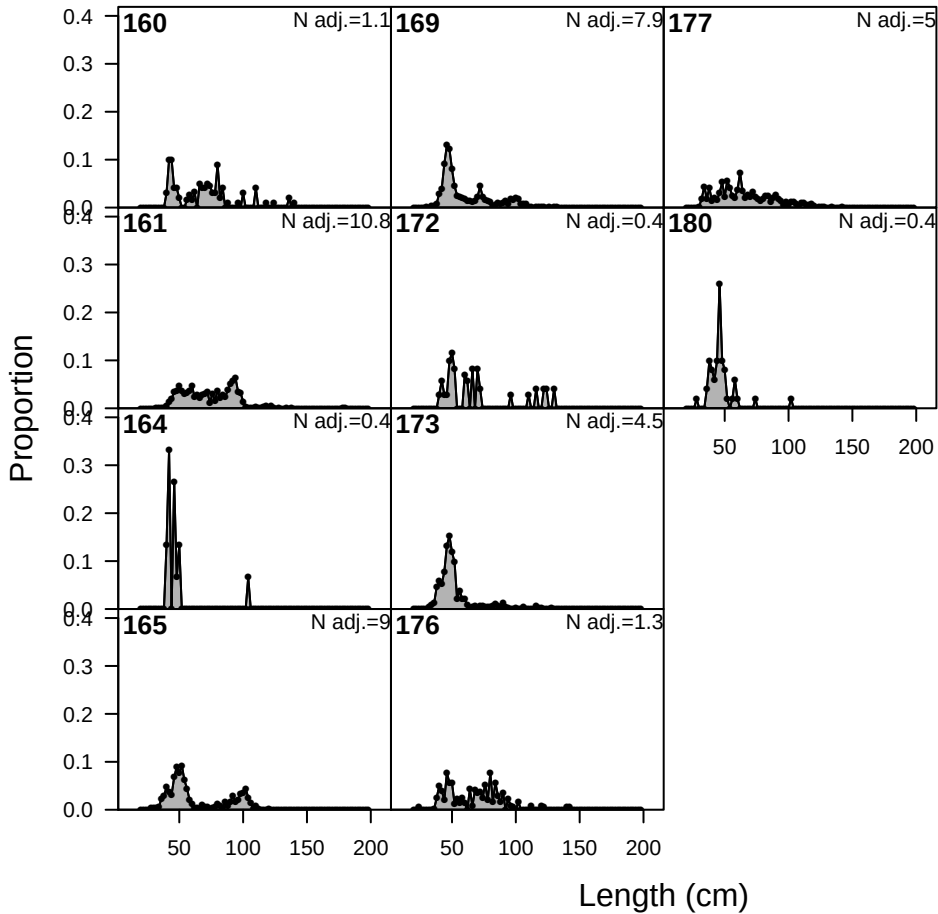


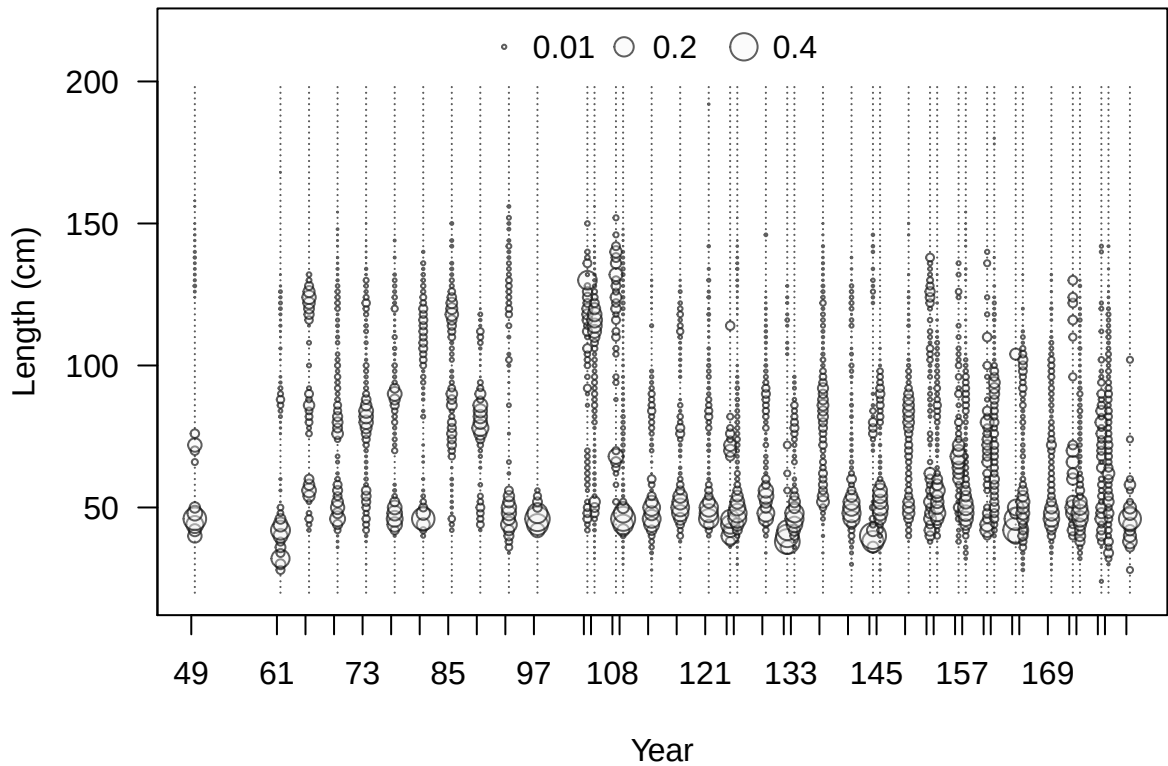
F4-OBJ_Cc_Q14 (whole catch)



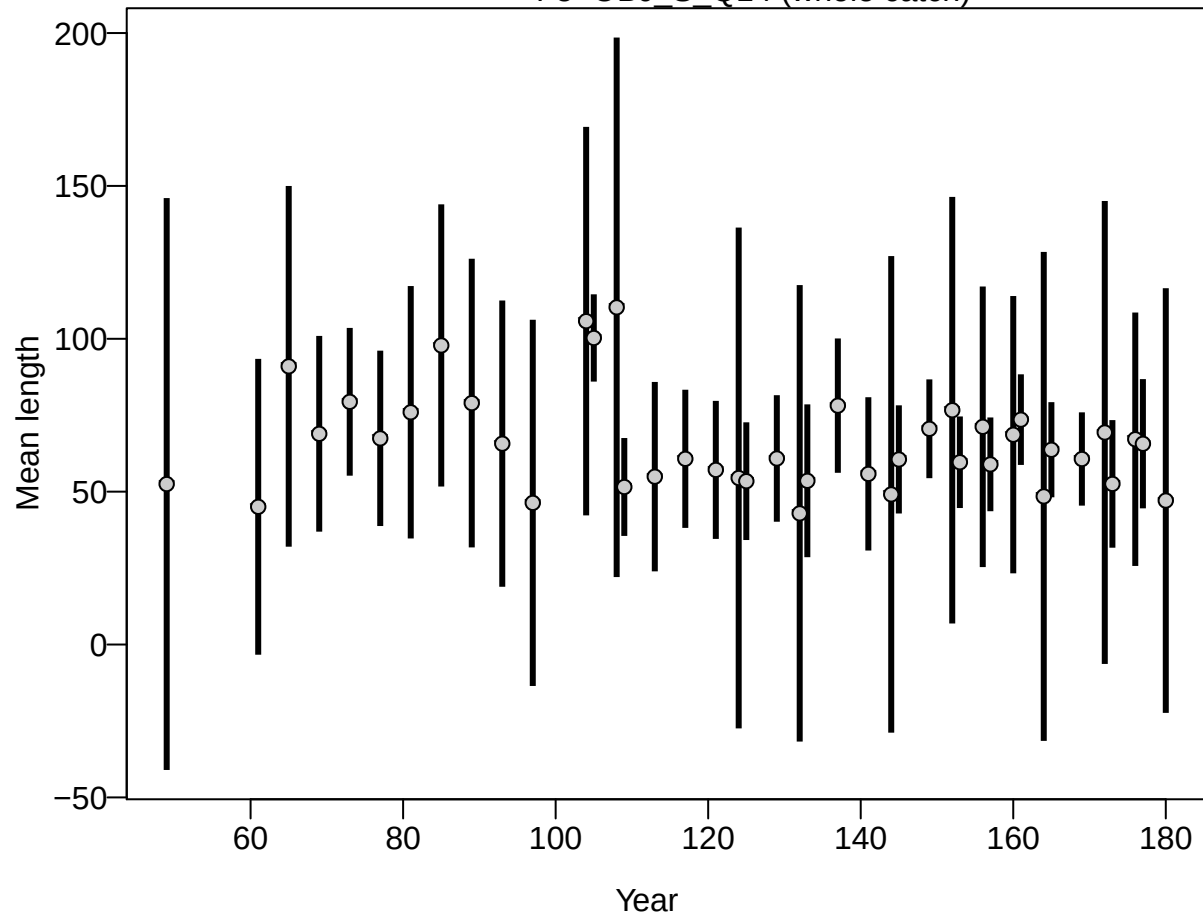




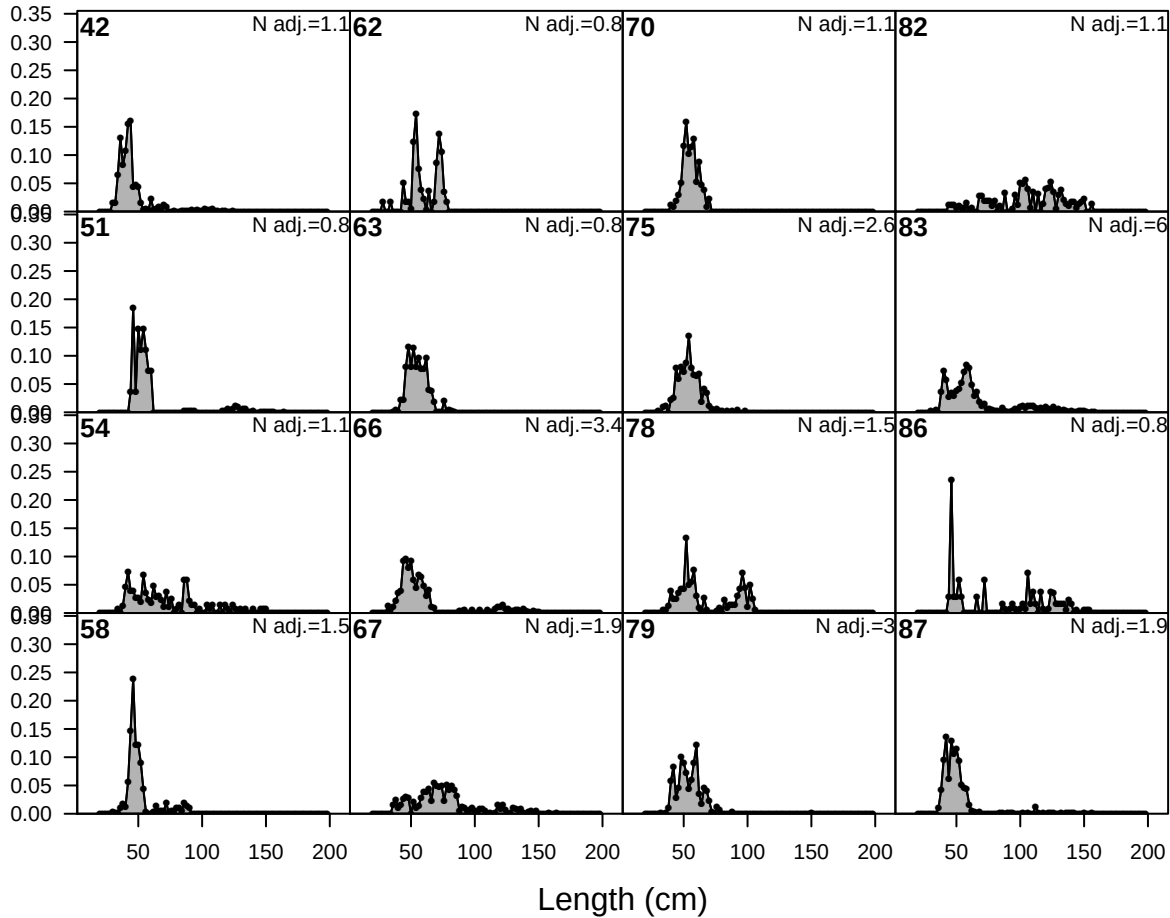


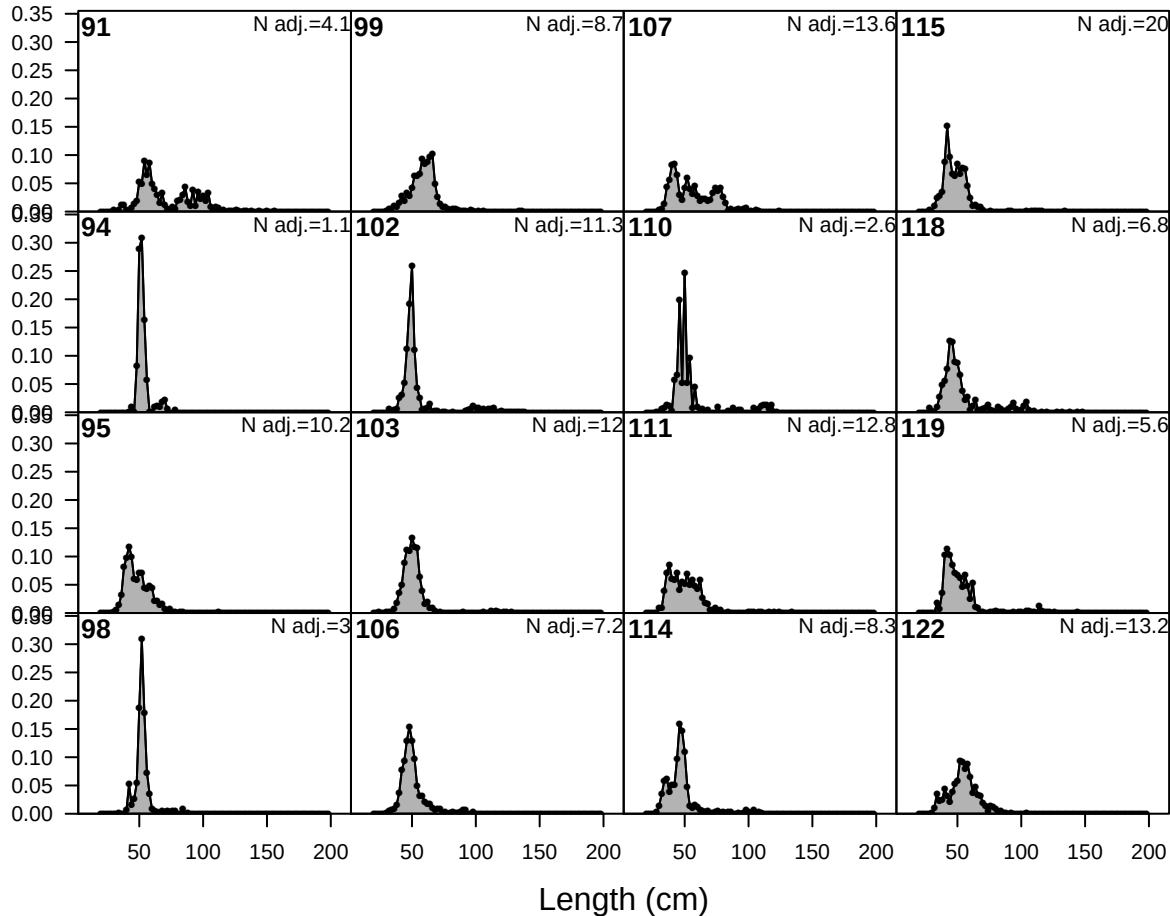


F5-OBJ S_Q14 (whole catch)

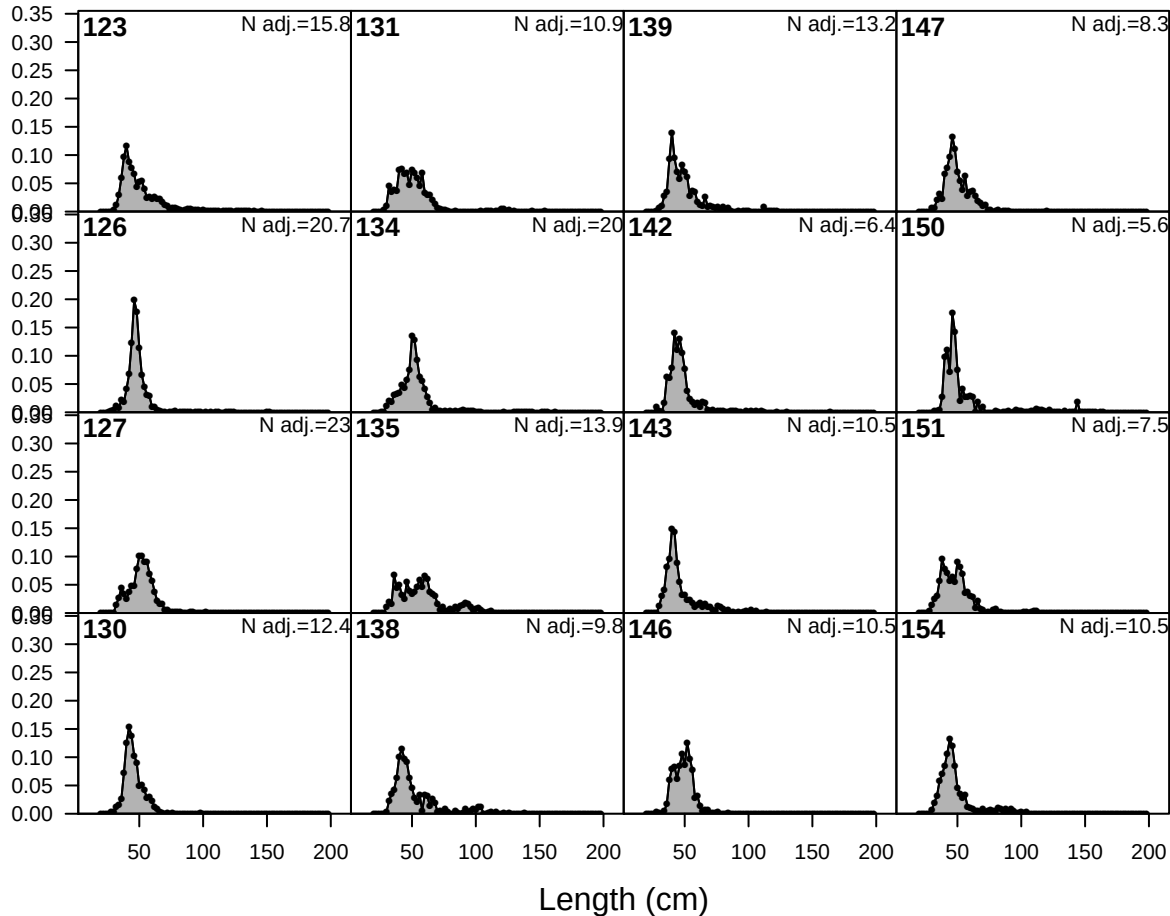


Proportion

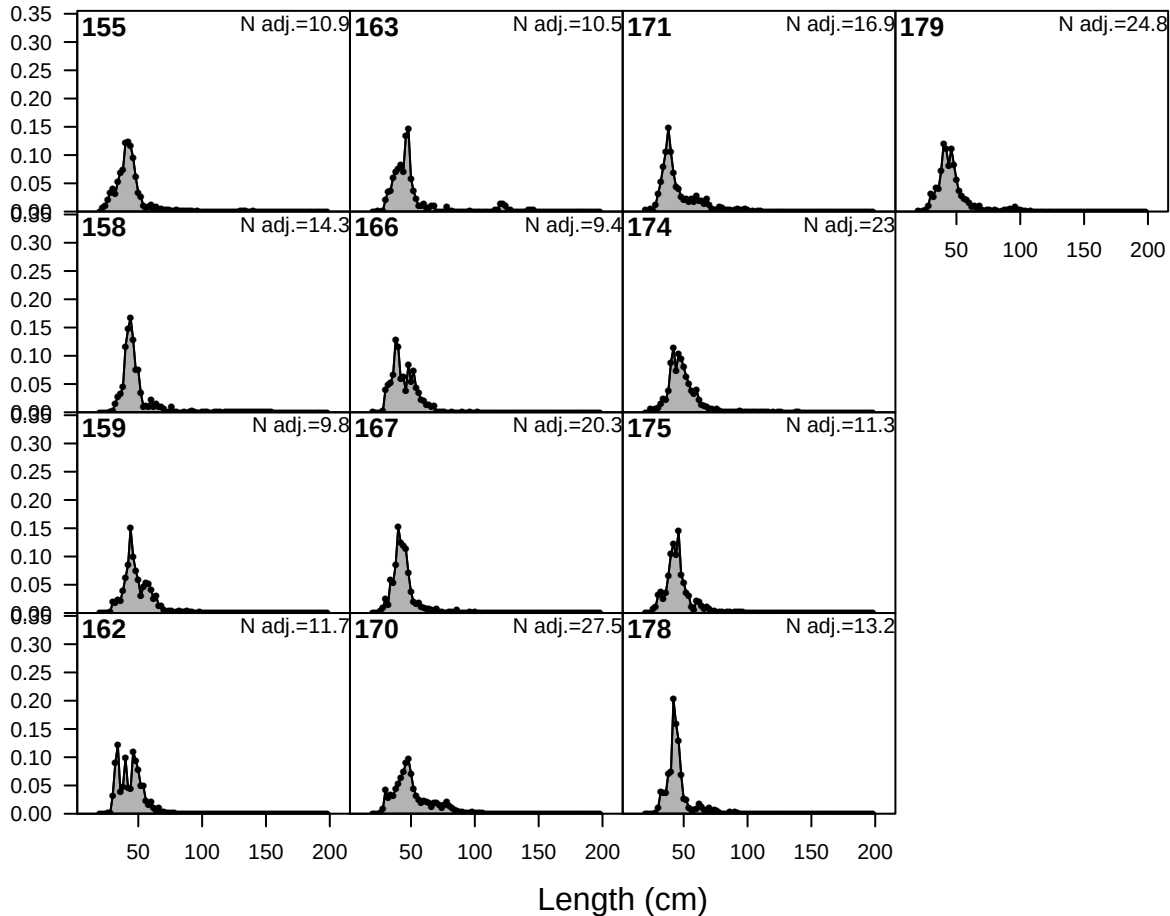


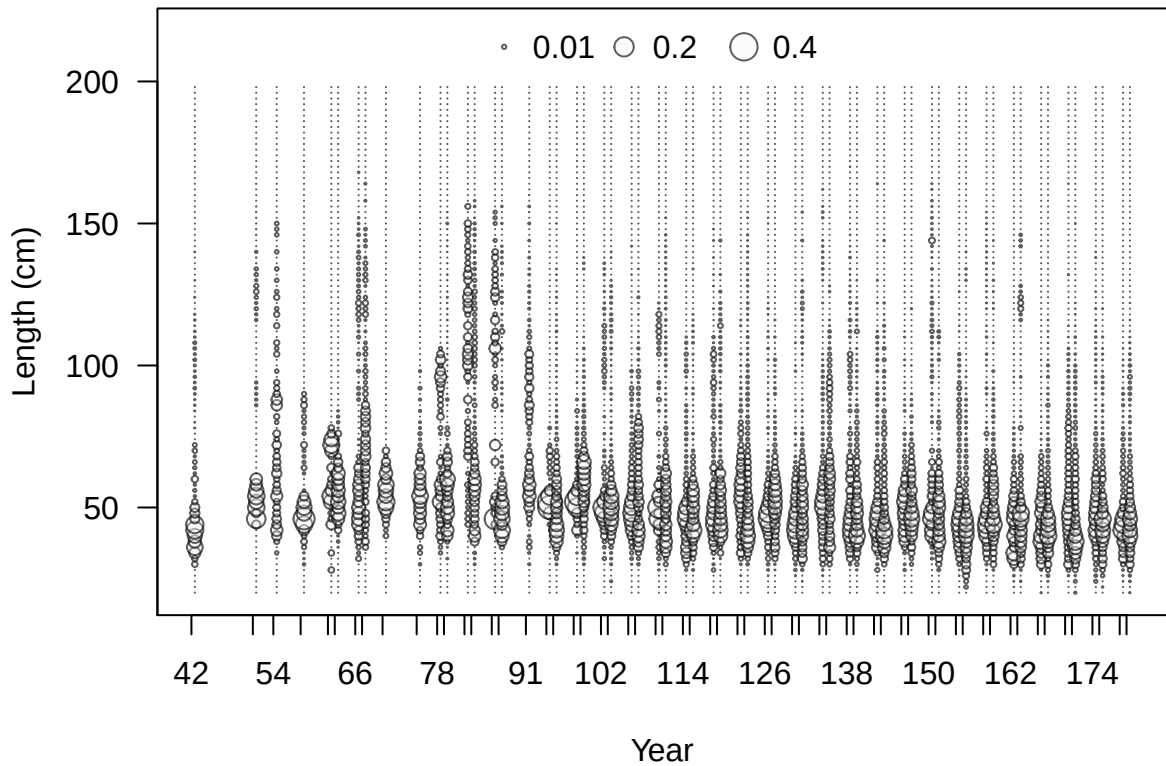


Proportion

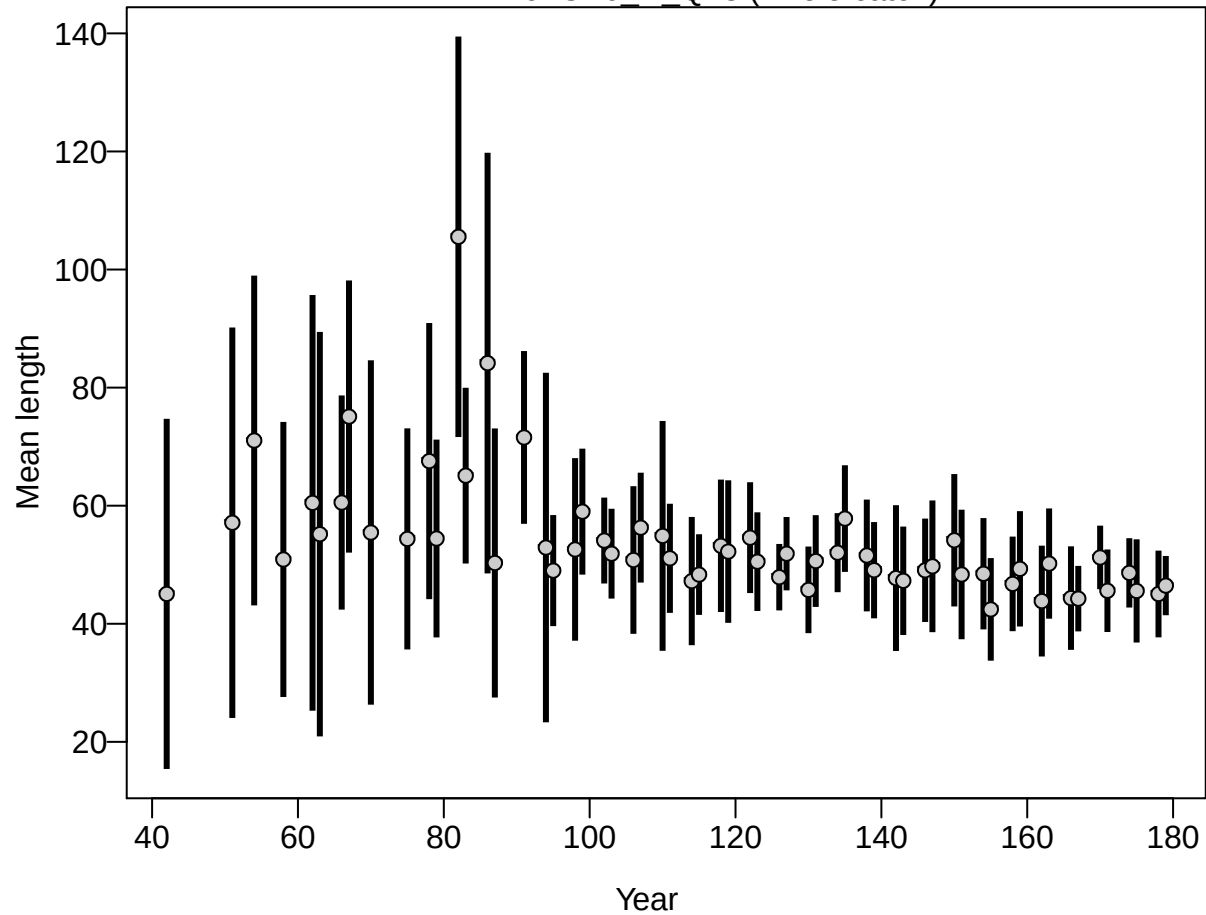


Proportion

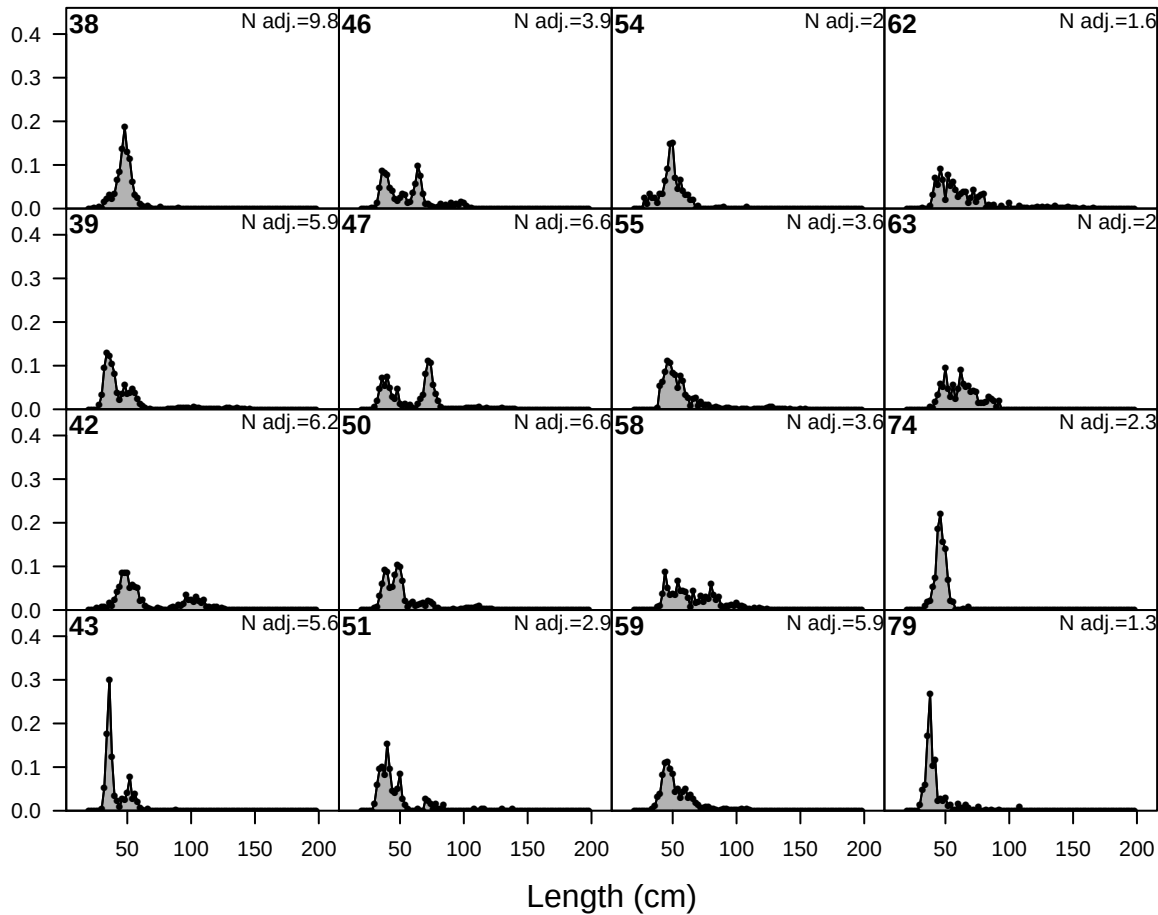




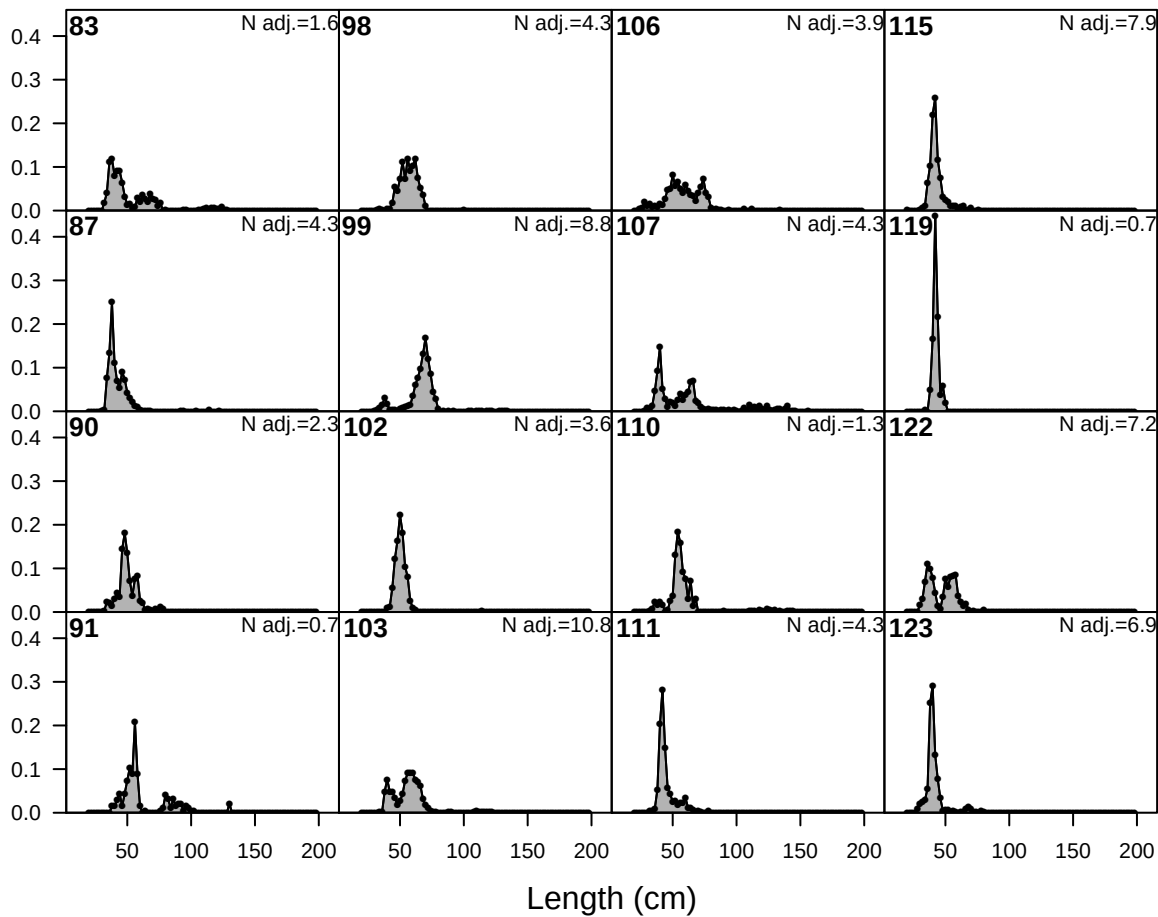
F6-OBJ_N_Q23 (whole catch)



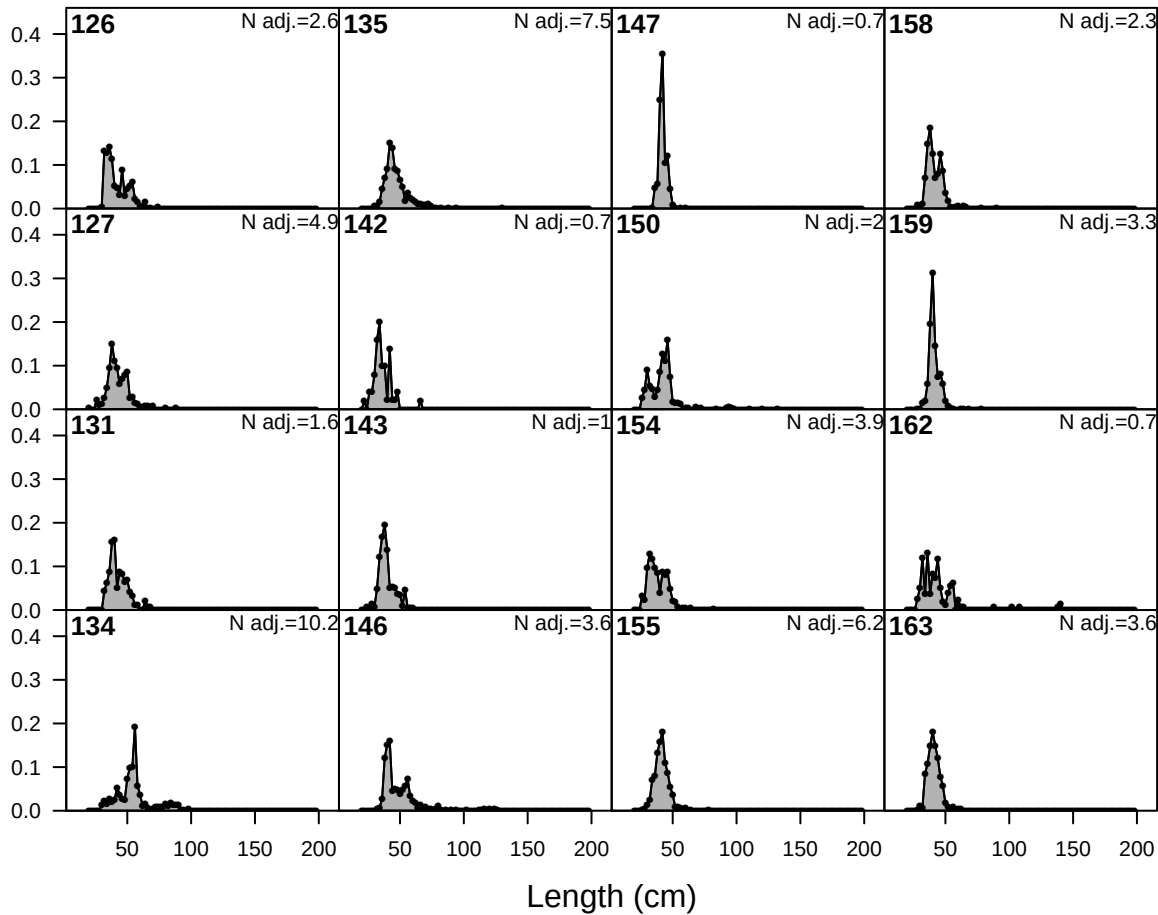
Proportion



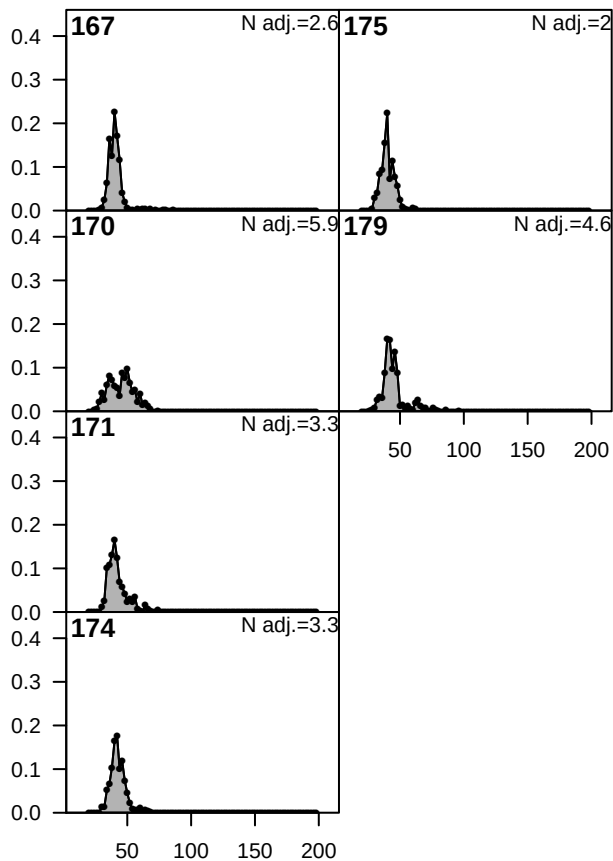
Proportion



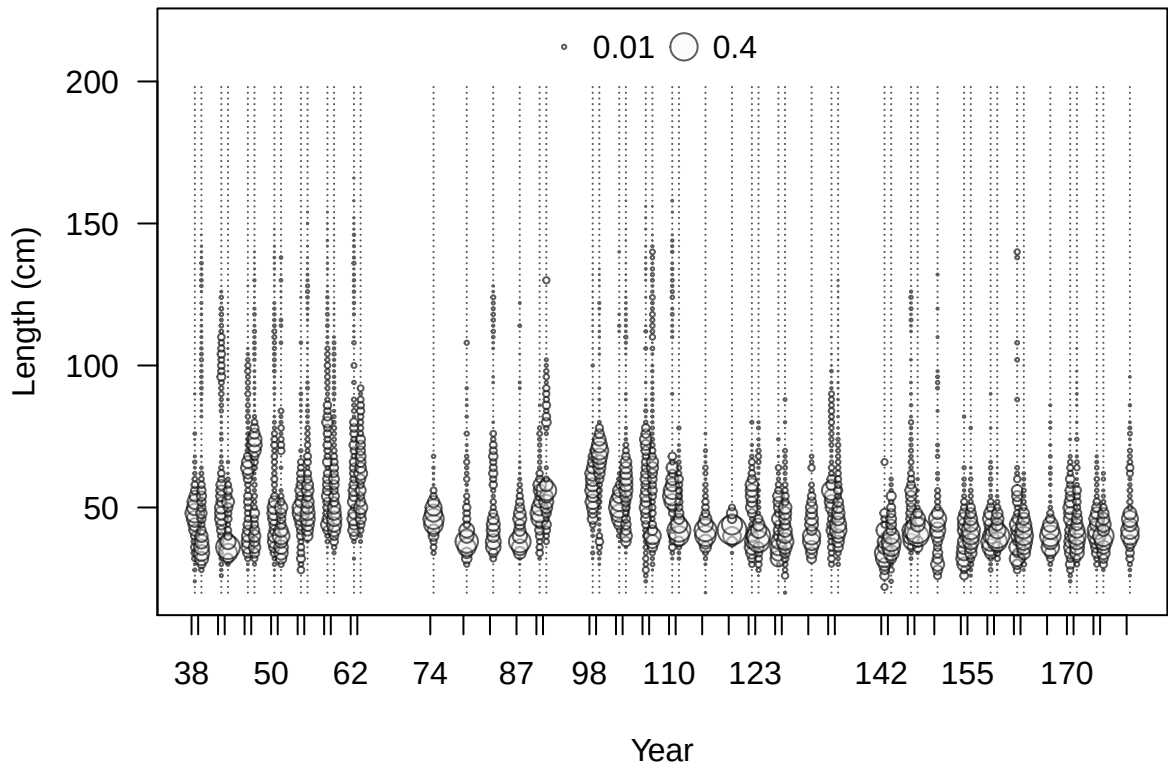
Proportion



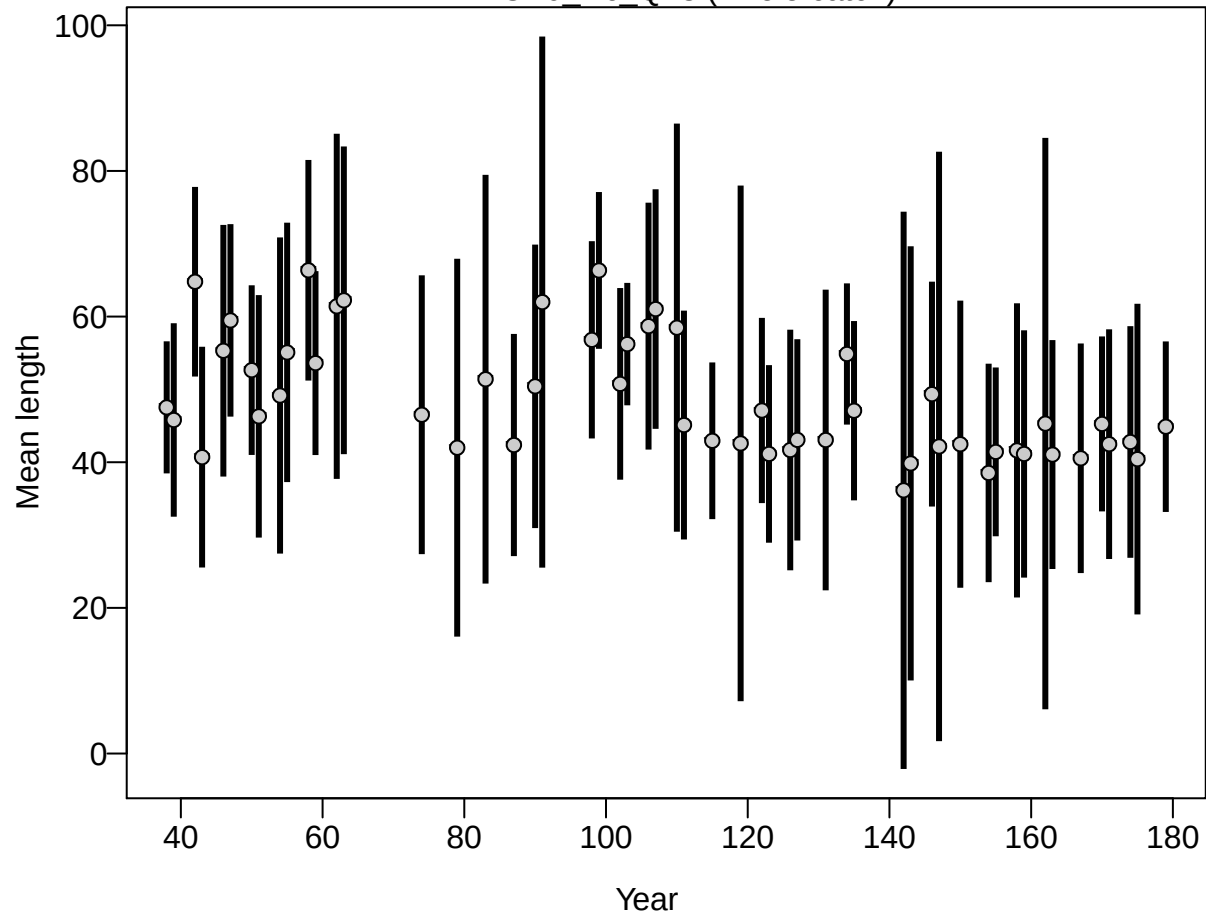
Proportion



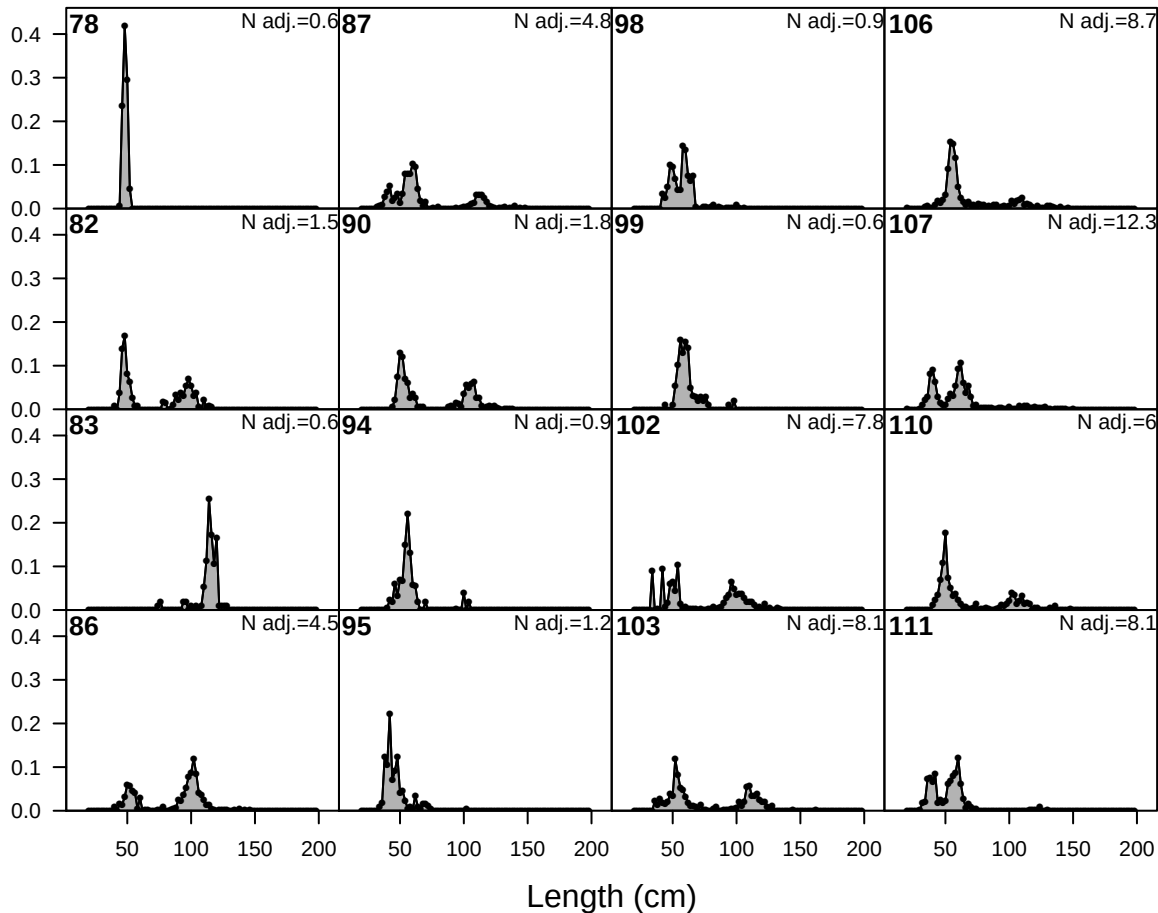
Length (cm)



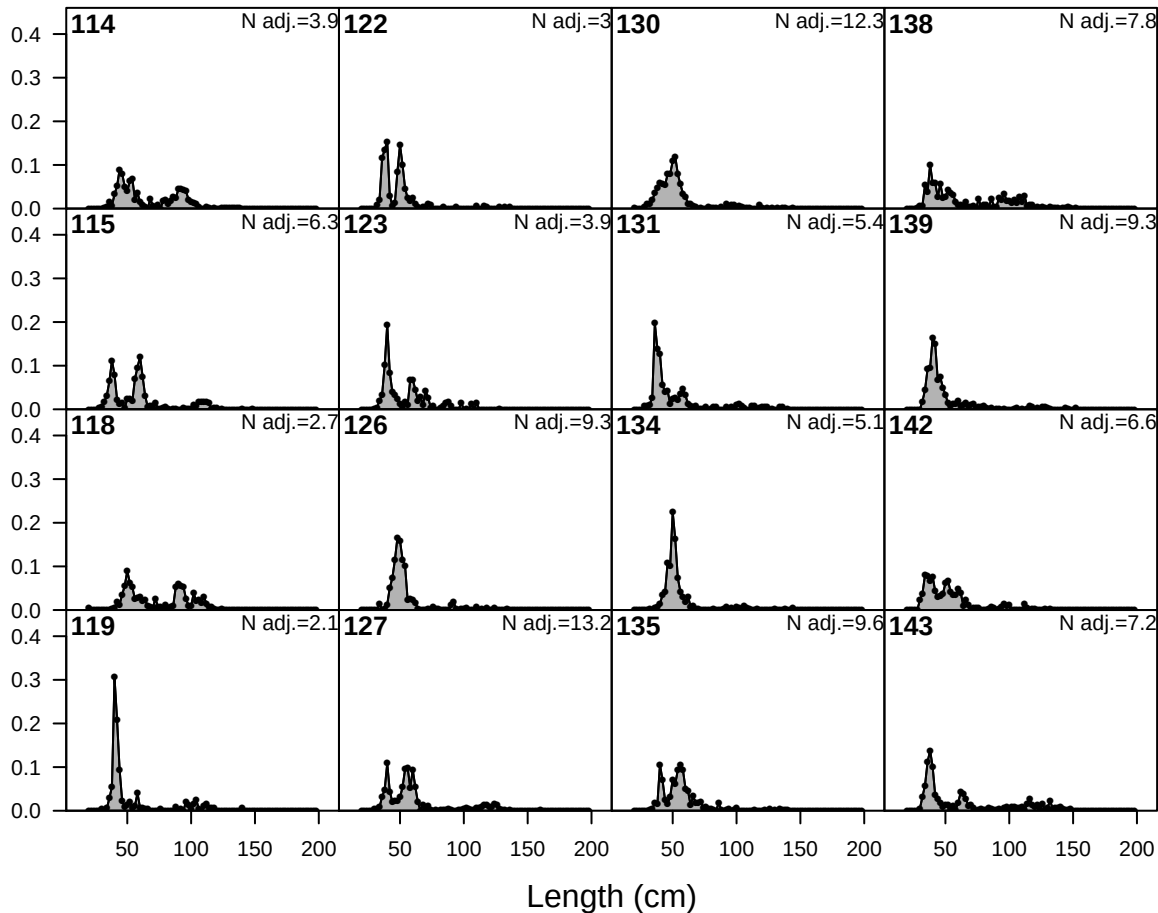
F7-OBJ Nc Q23 (whole catch)



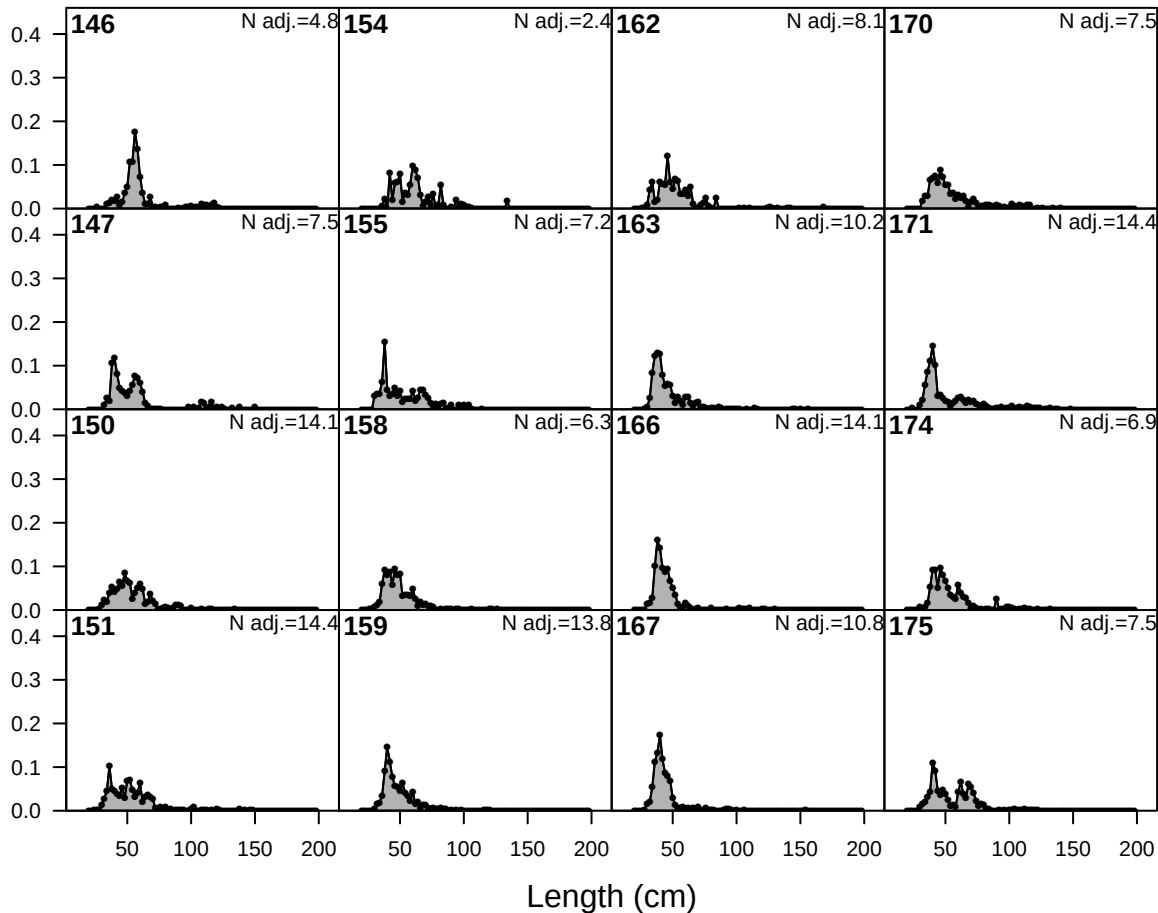
Proportion



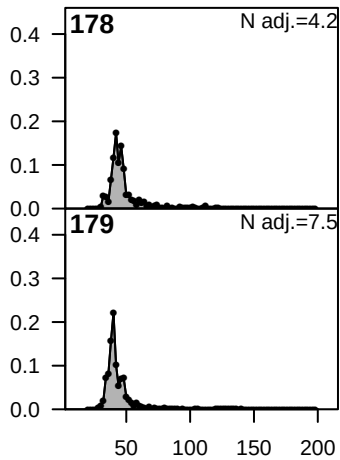
Proportion



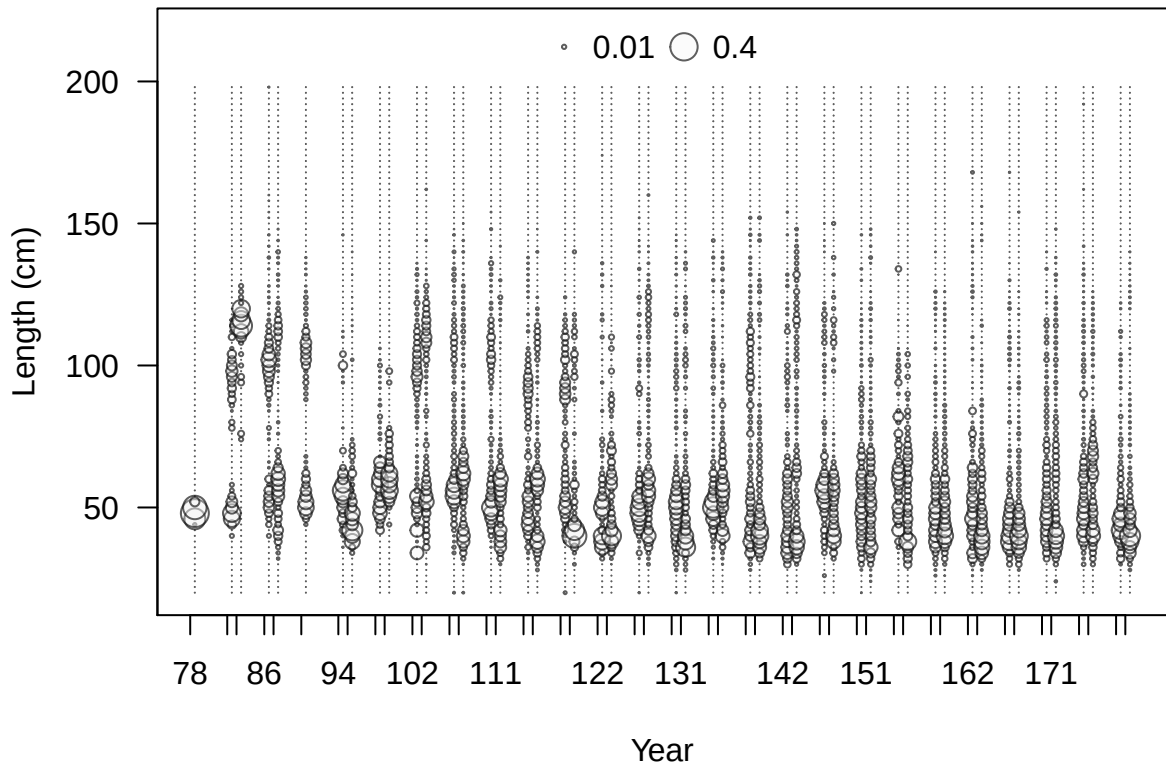
Proportion



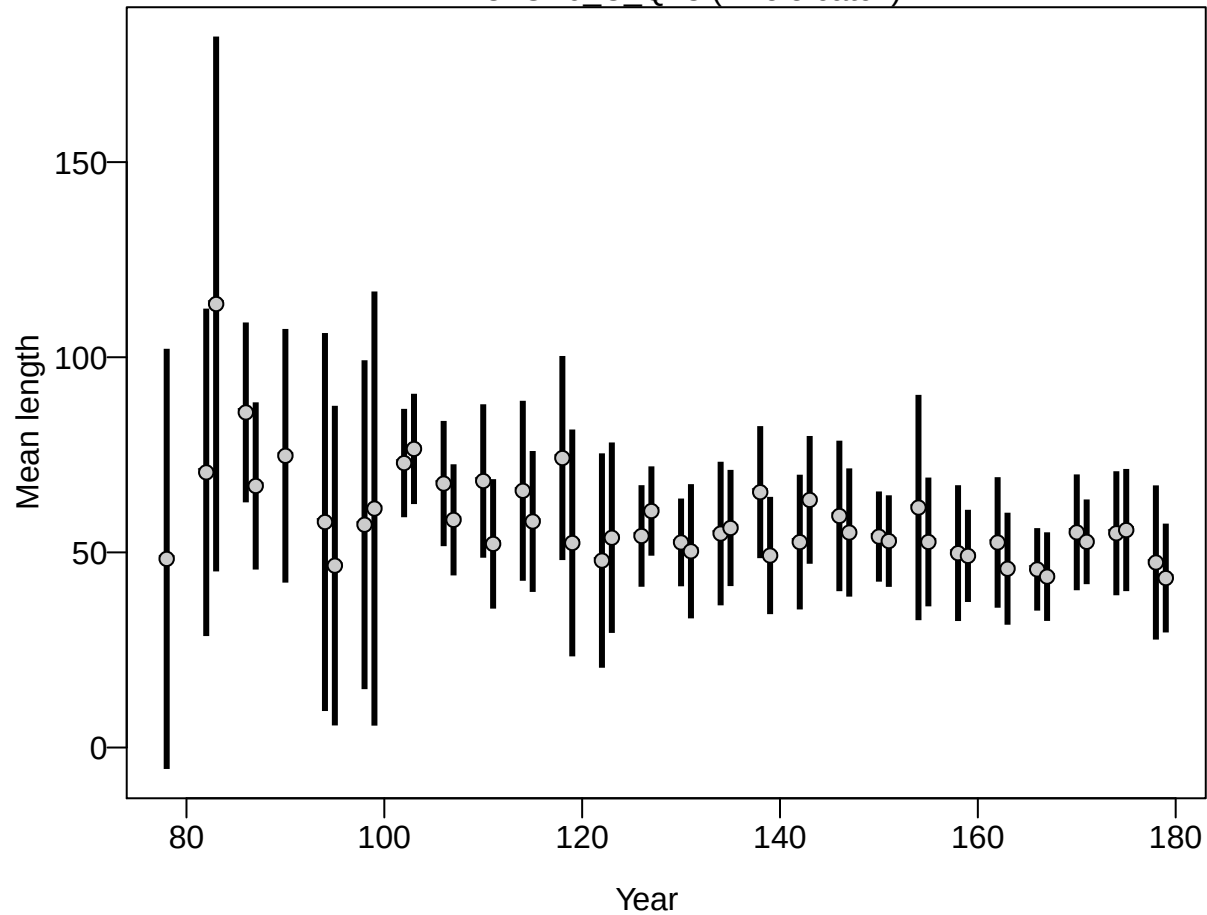
Proportion

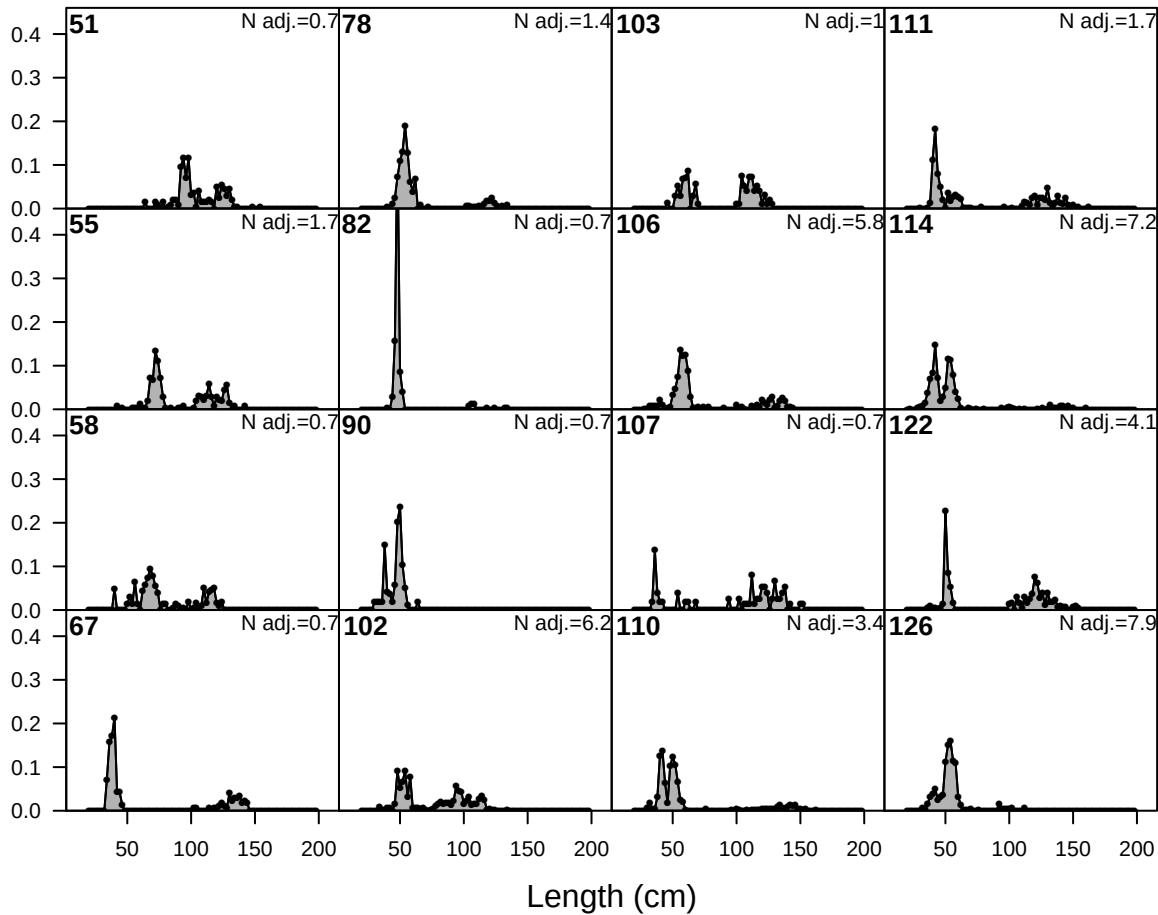


Length (cm)

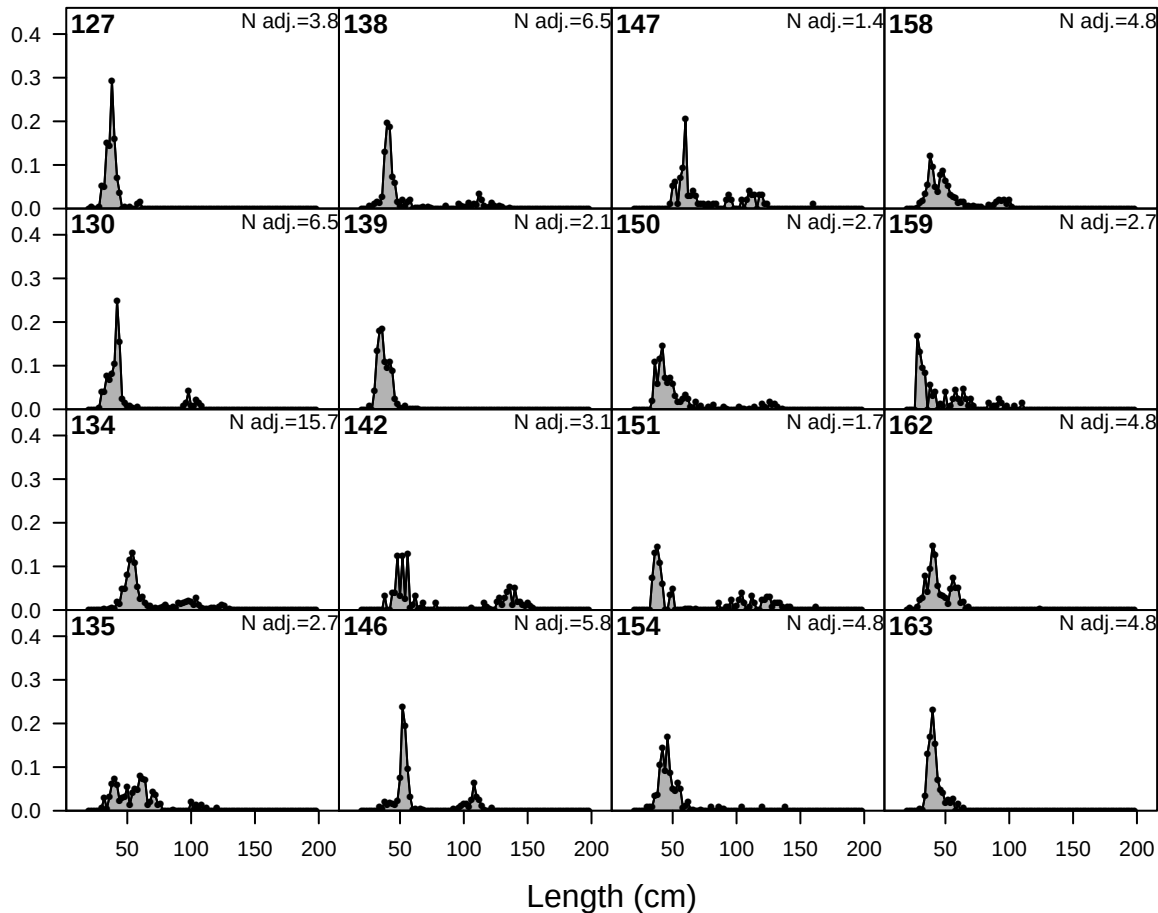


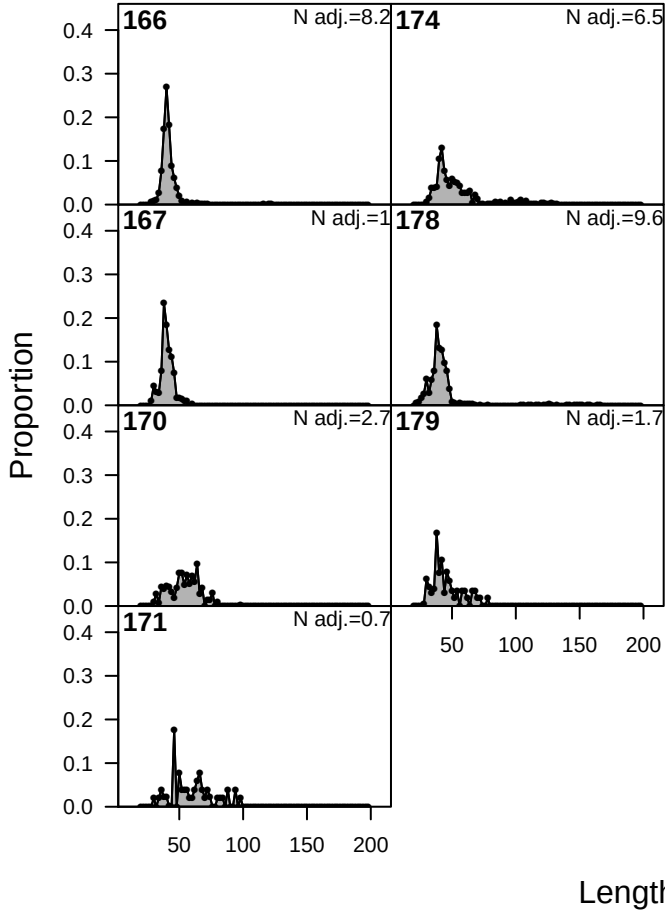
F8-OBJ_C_Q23 (whole catch)

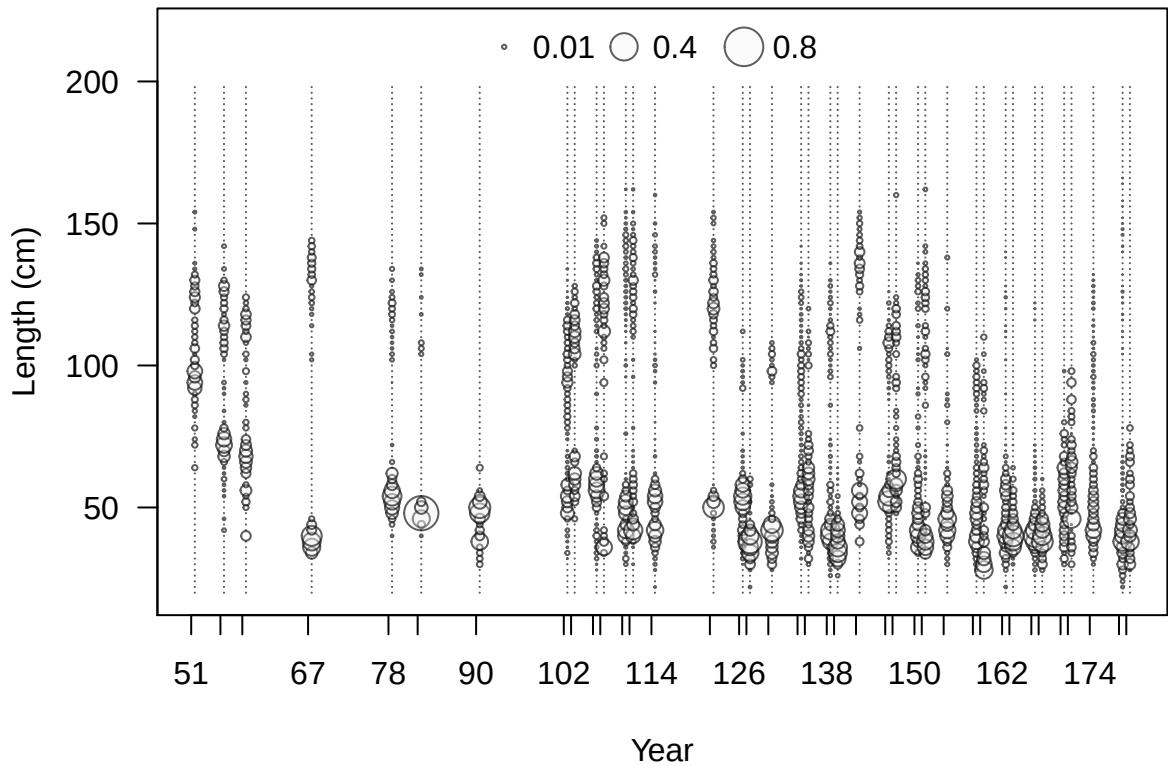




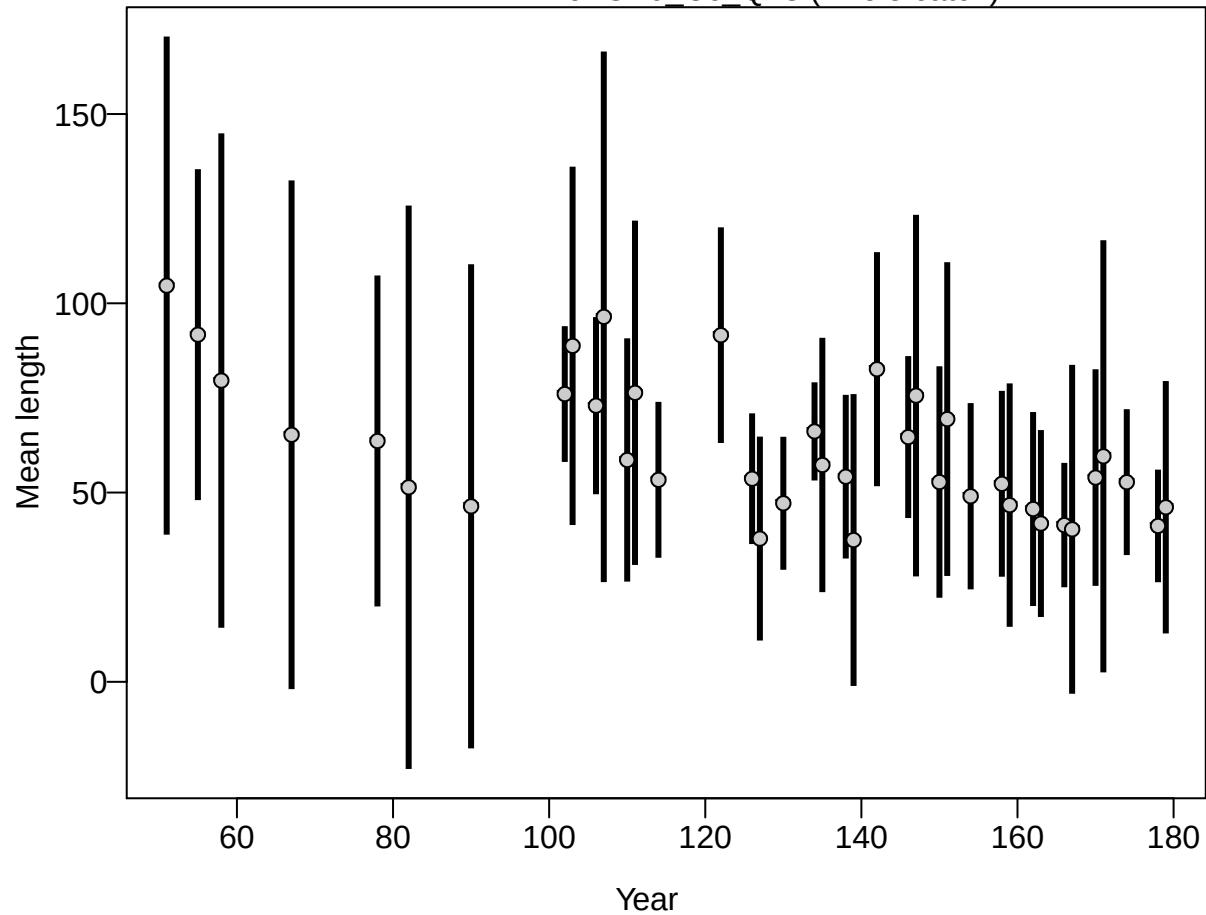
Proportion



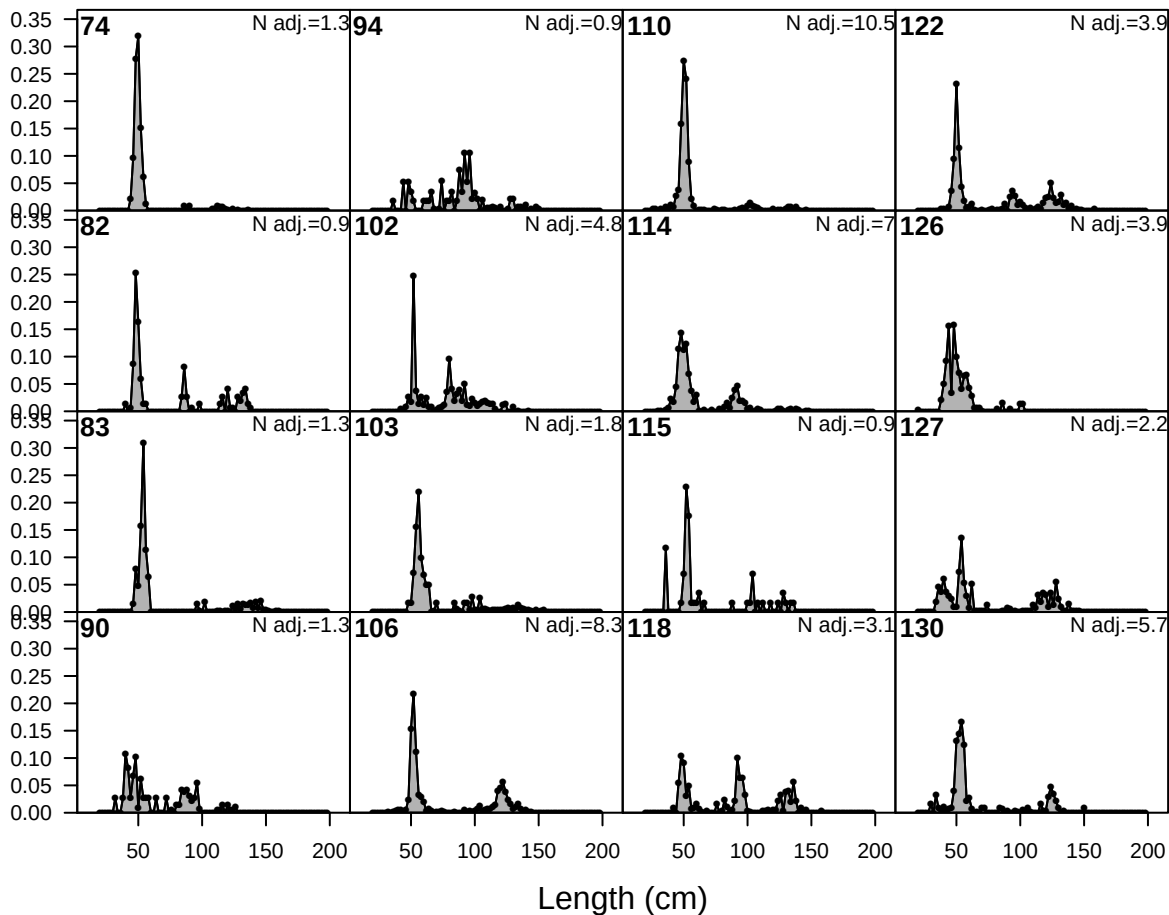




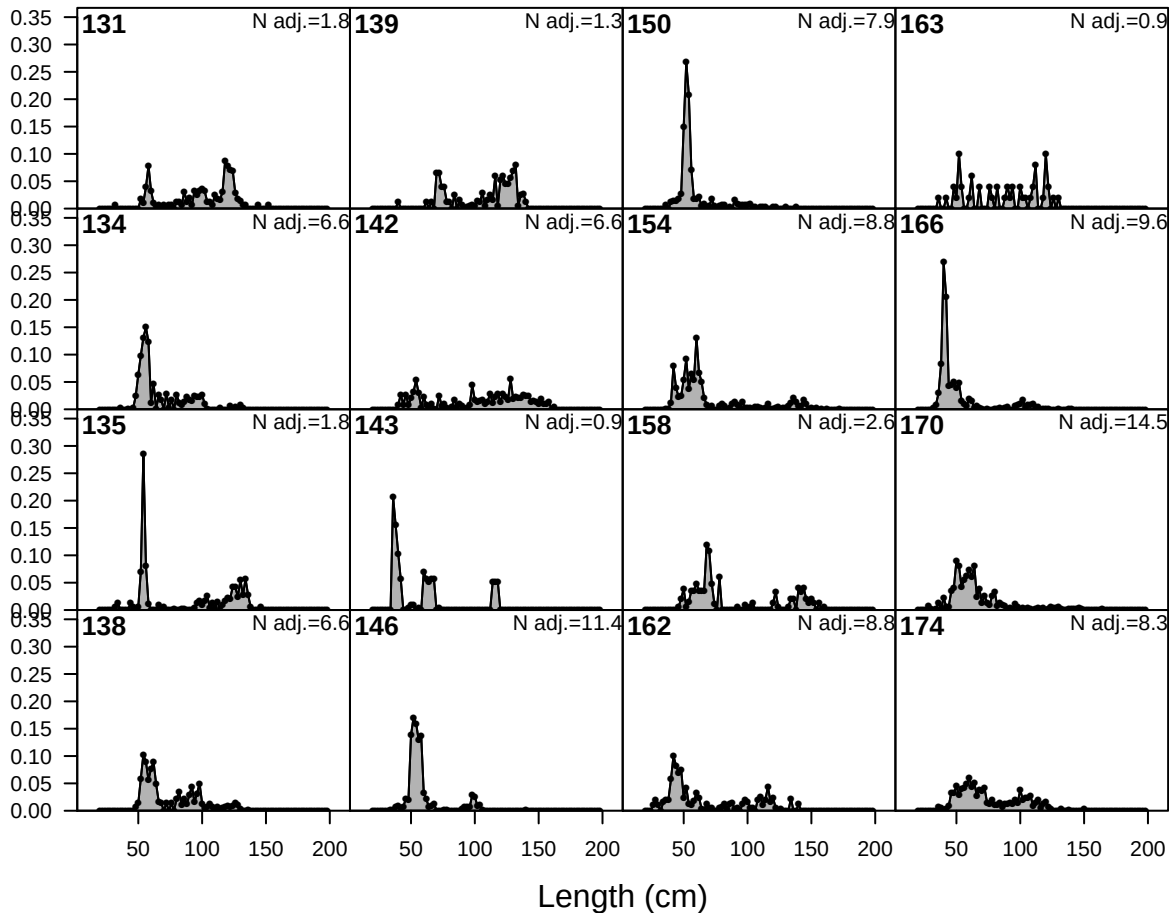
F9-OBJ Cc Q23 (whole catch)



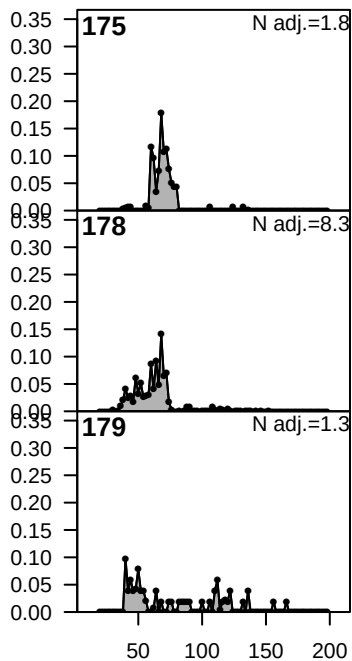
Proportion

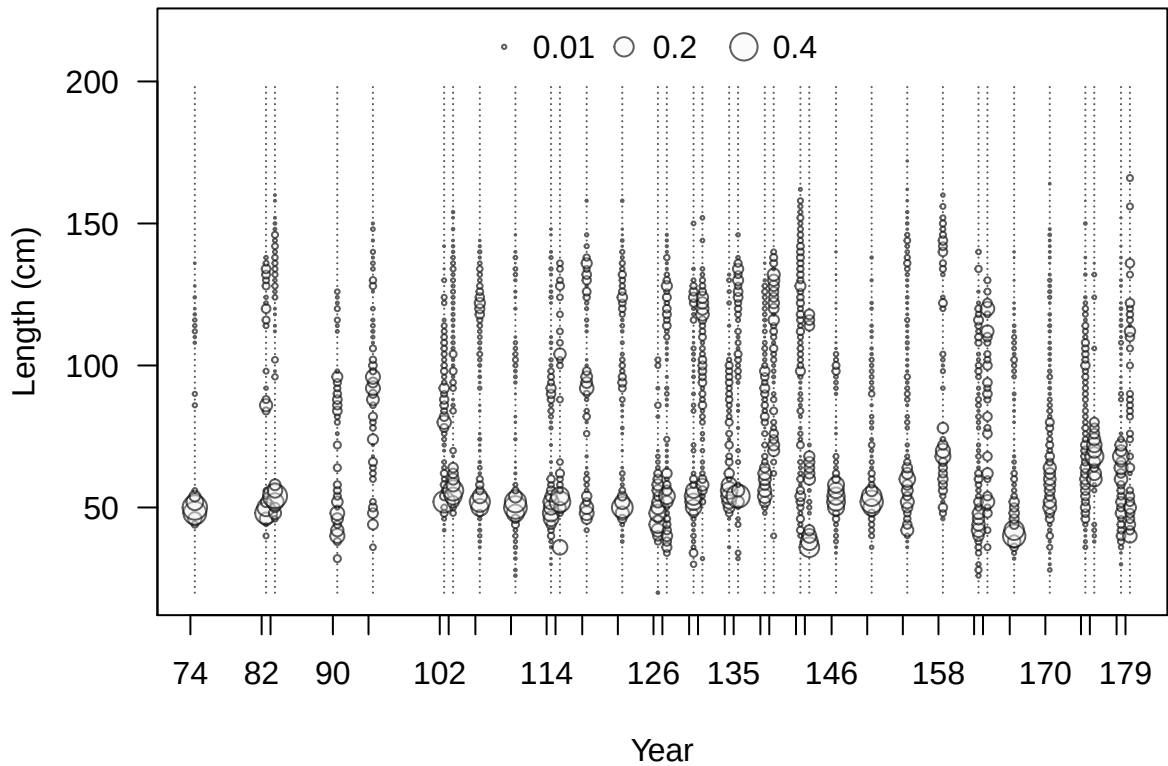


Proportion

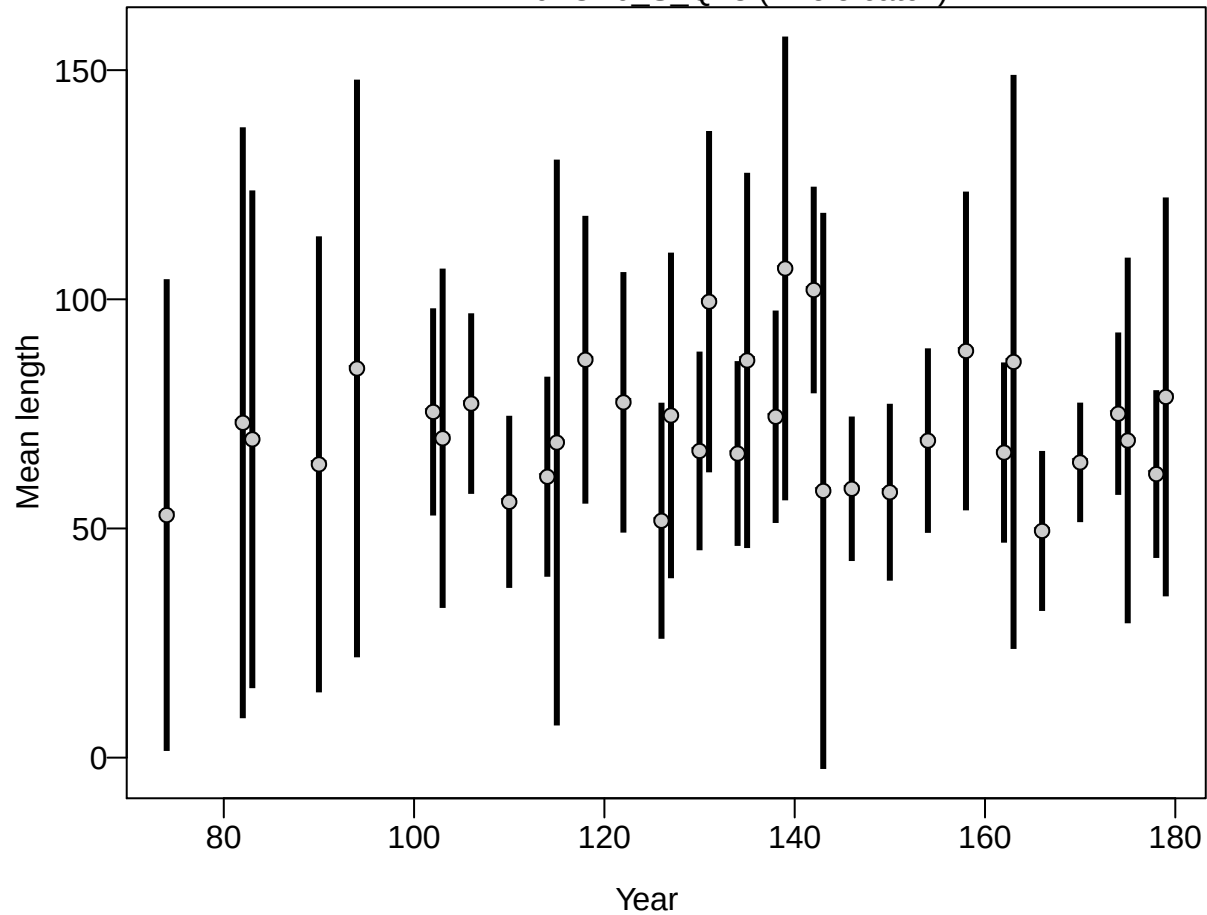


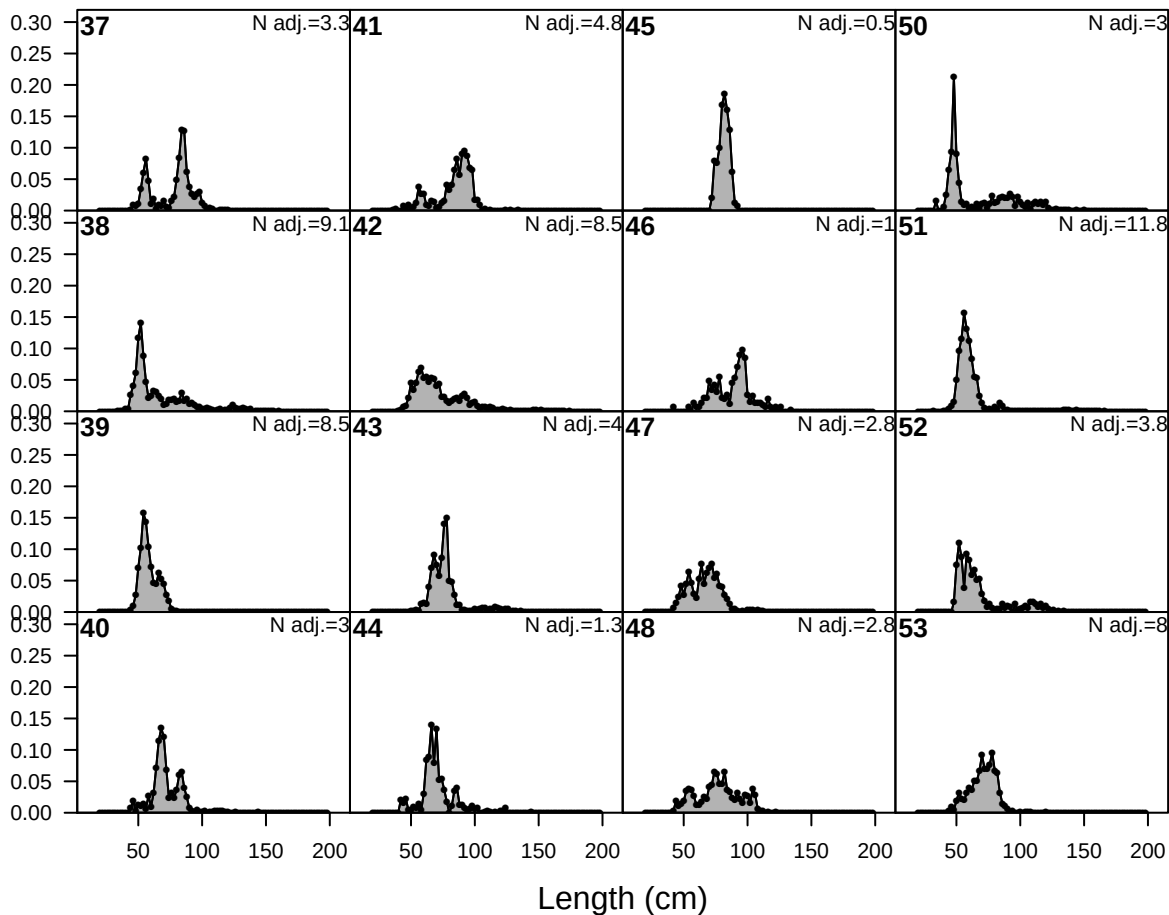
Proportion

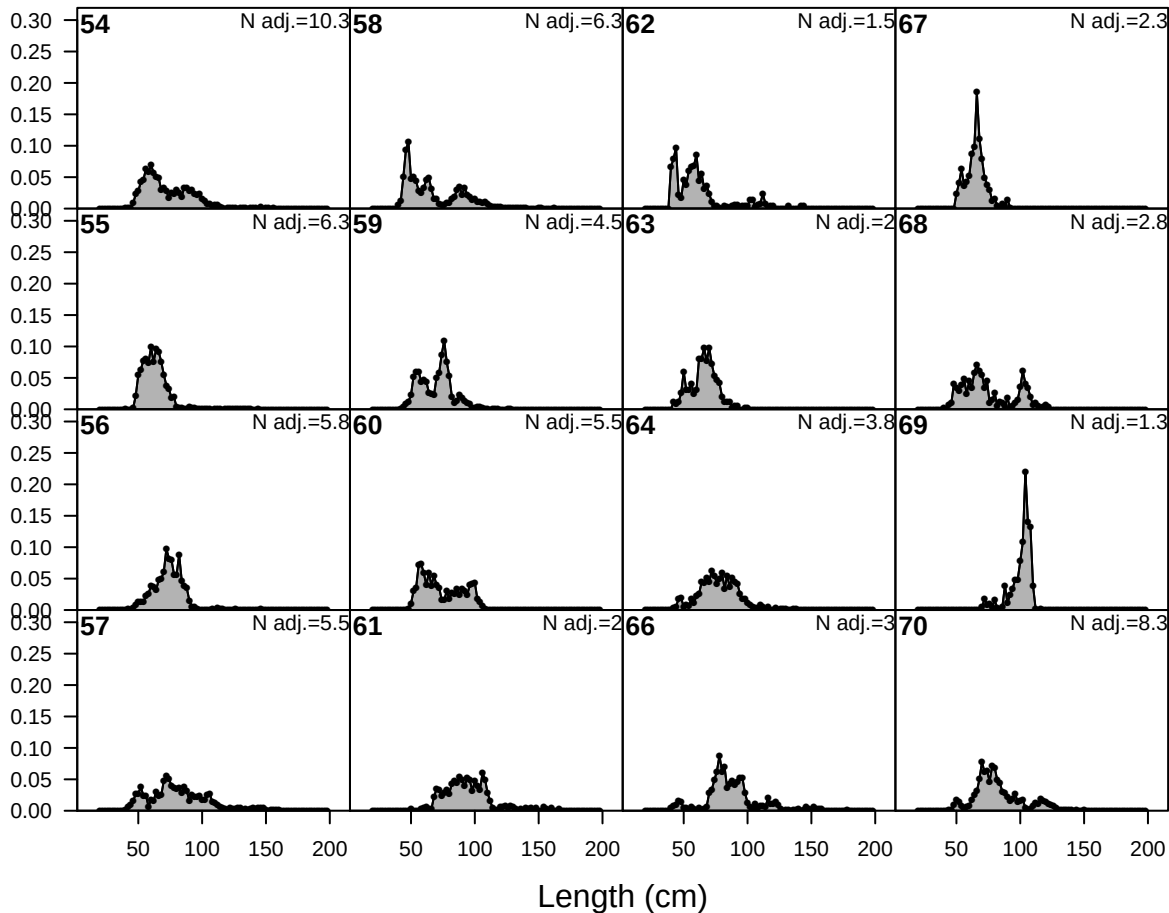


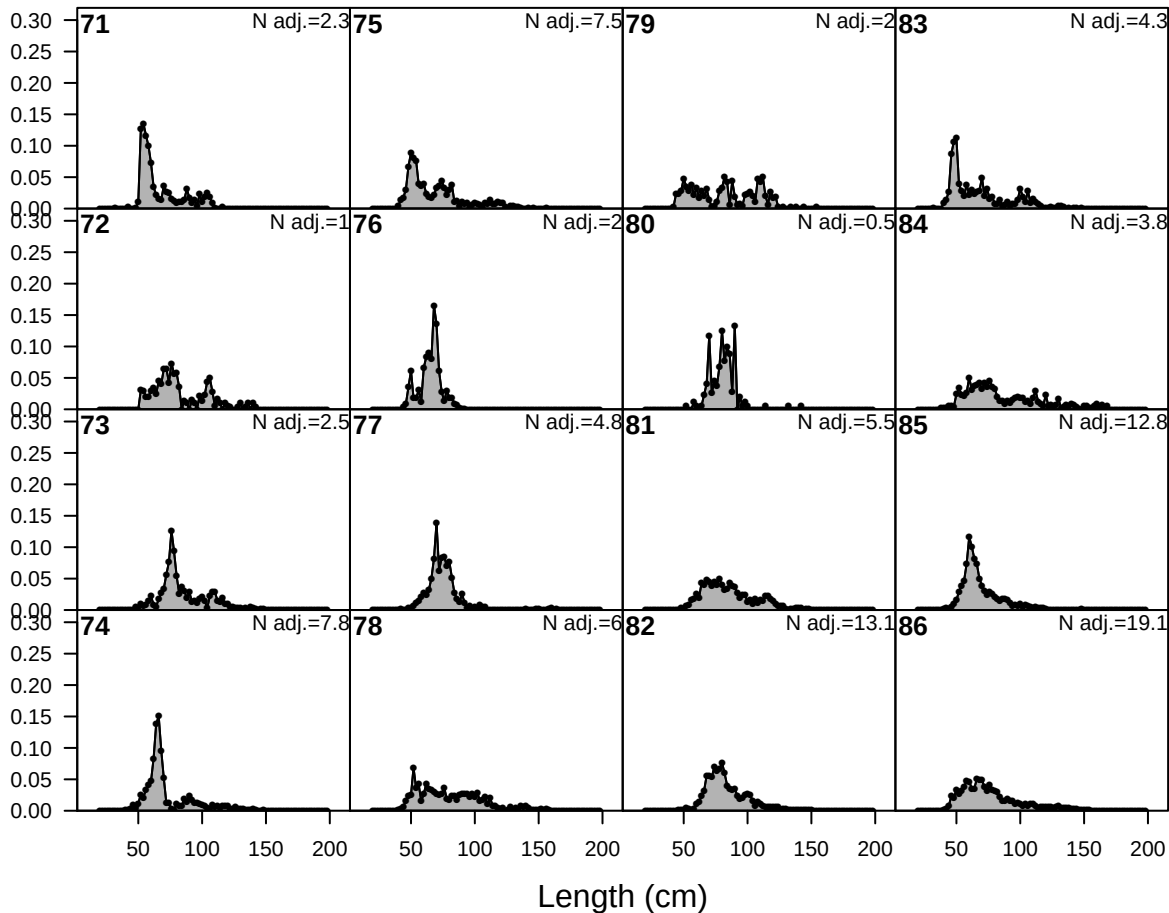


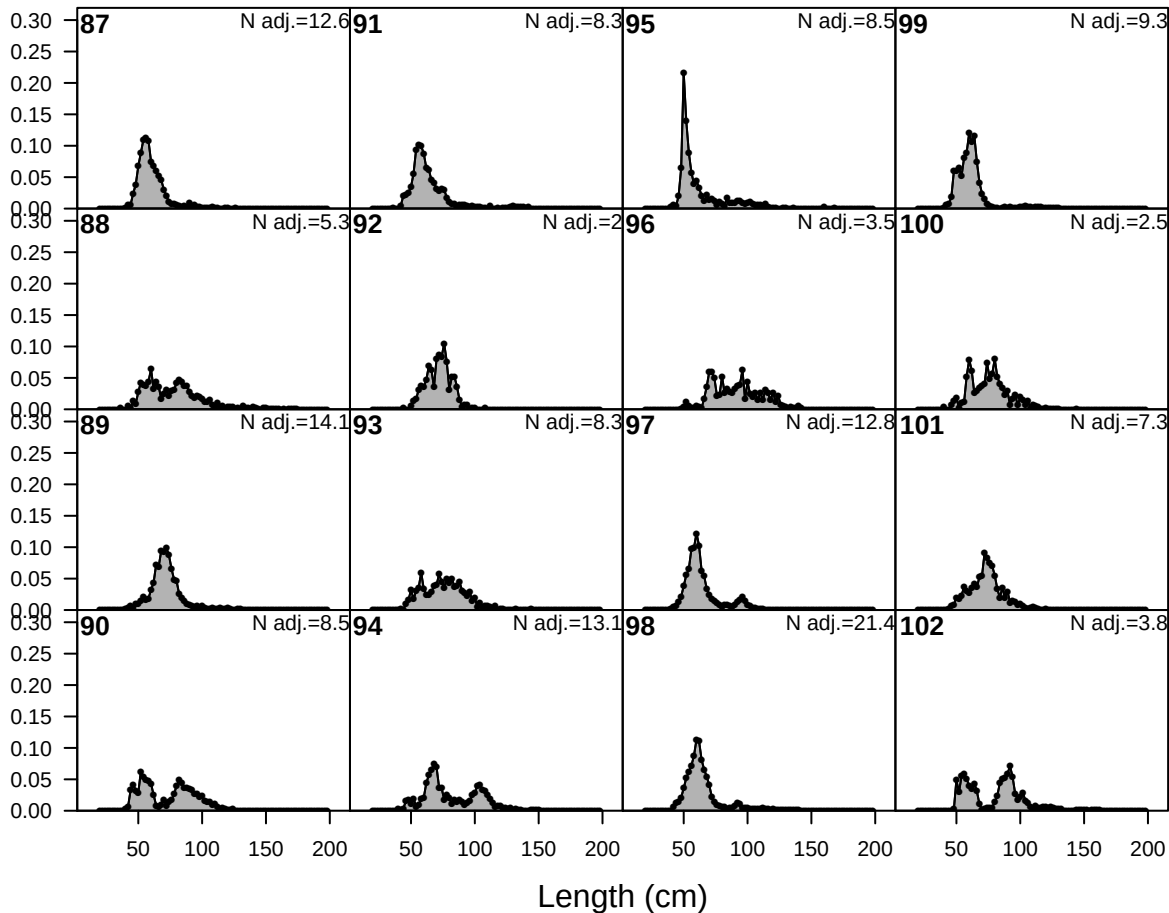
F10-OBJ_S_Q23 (whole catch)

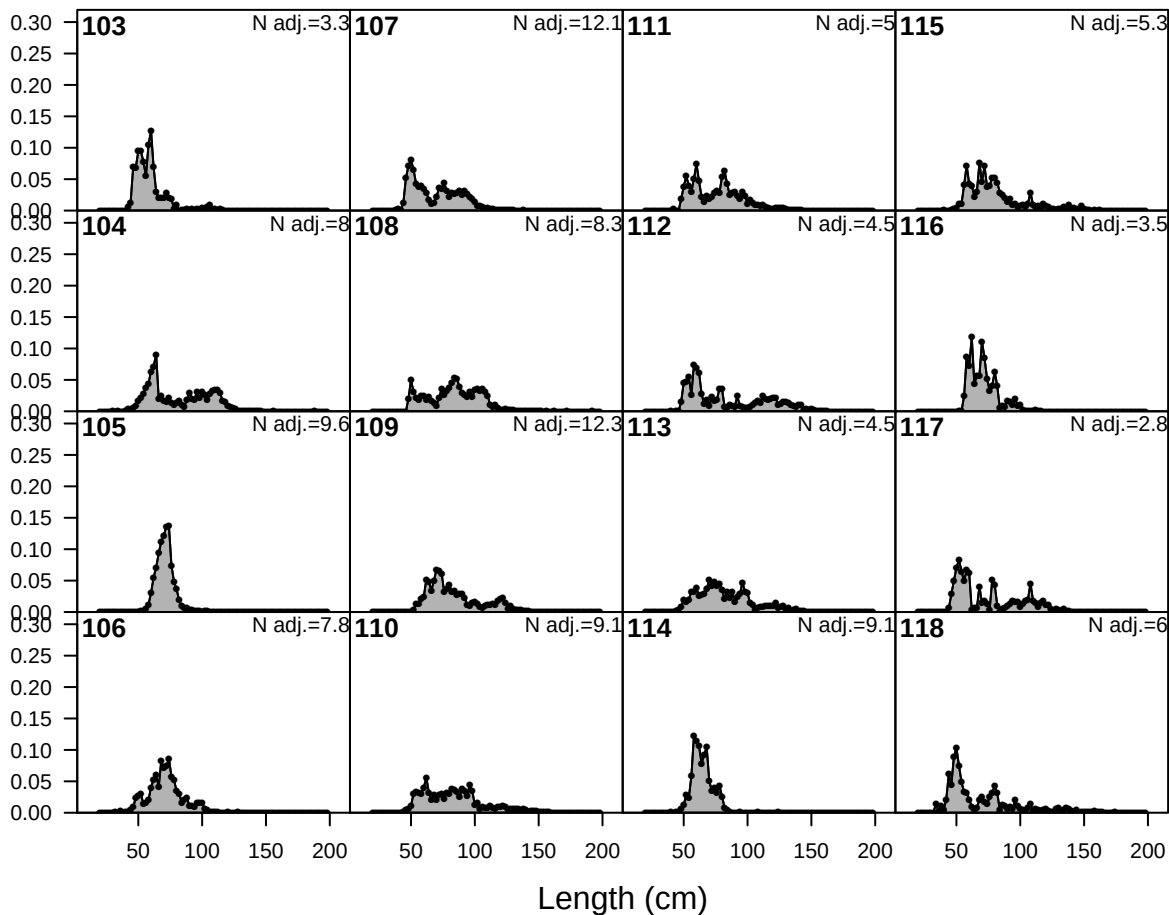


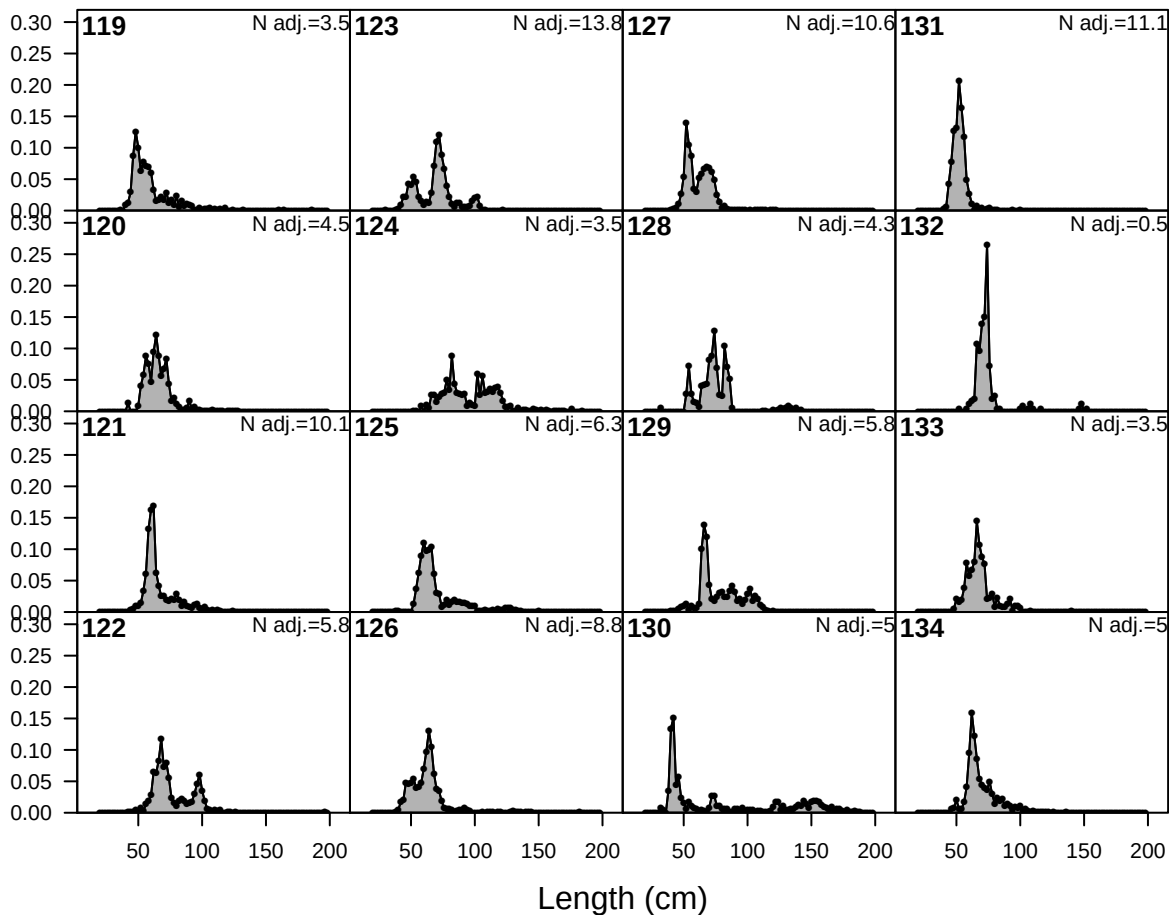


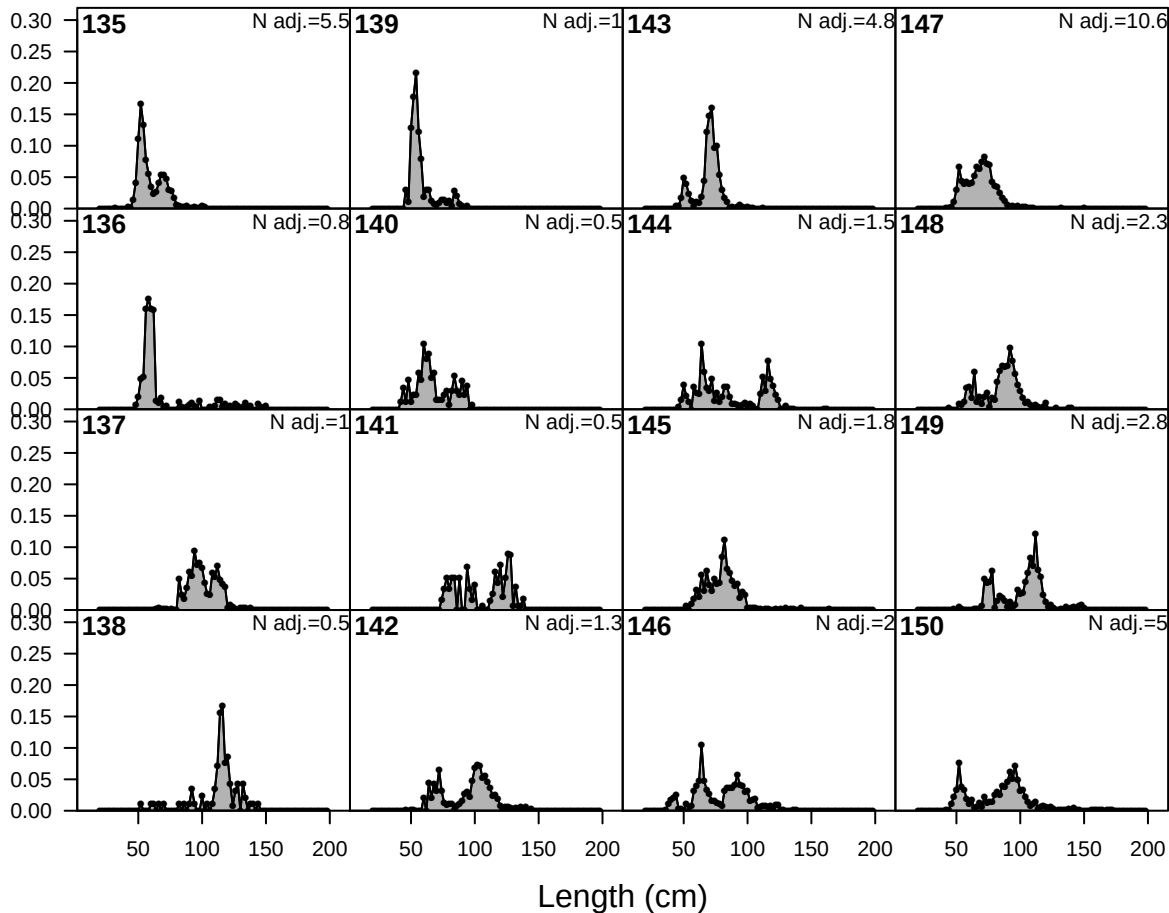


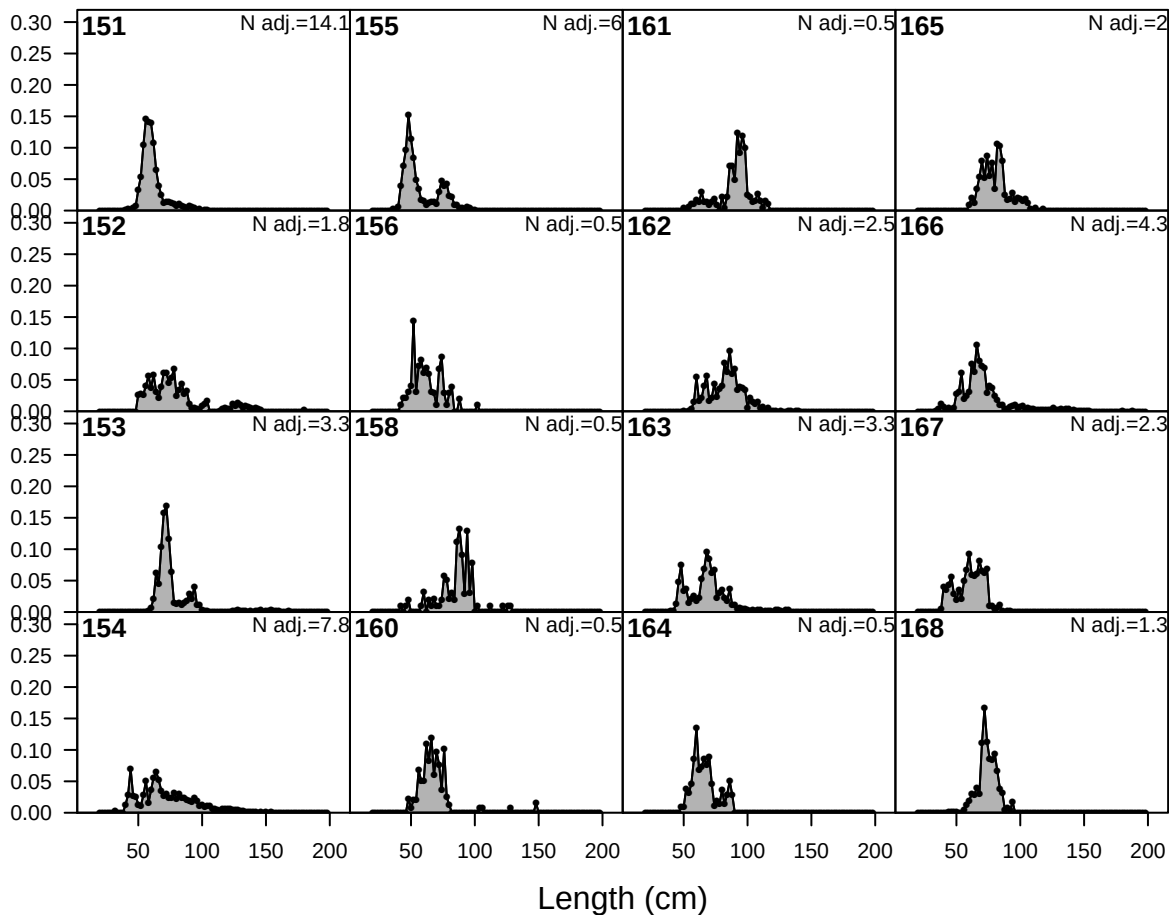




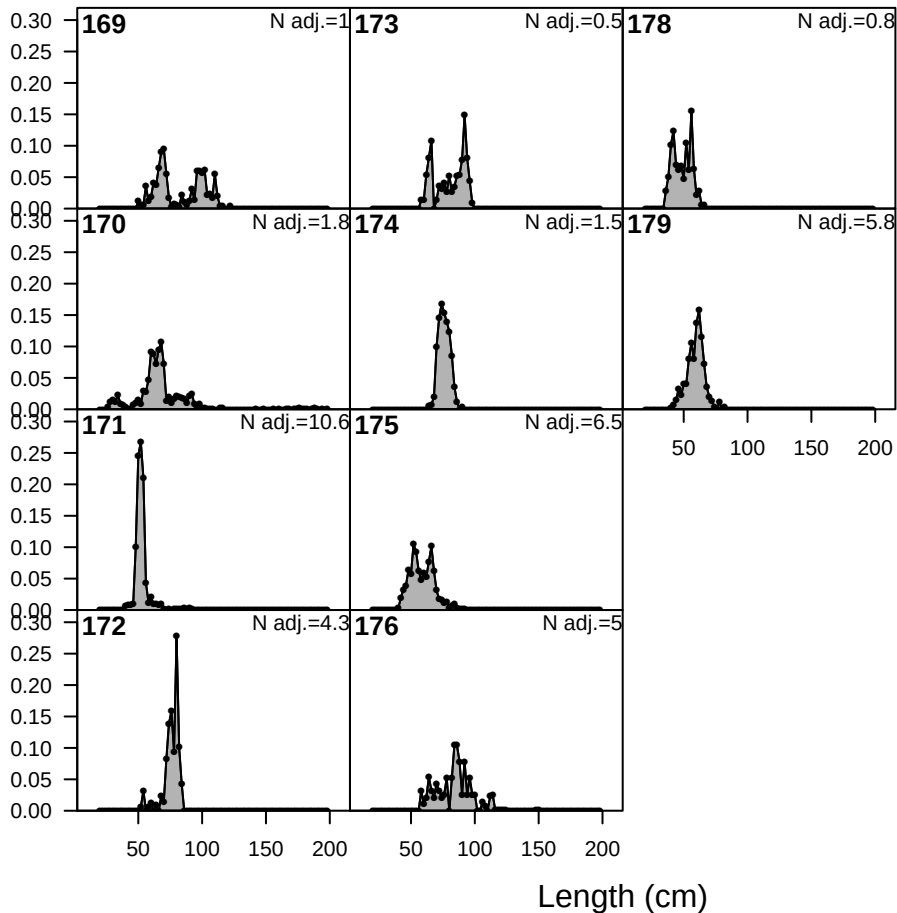


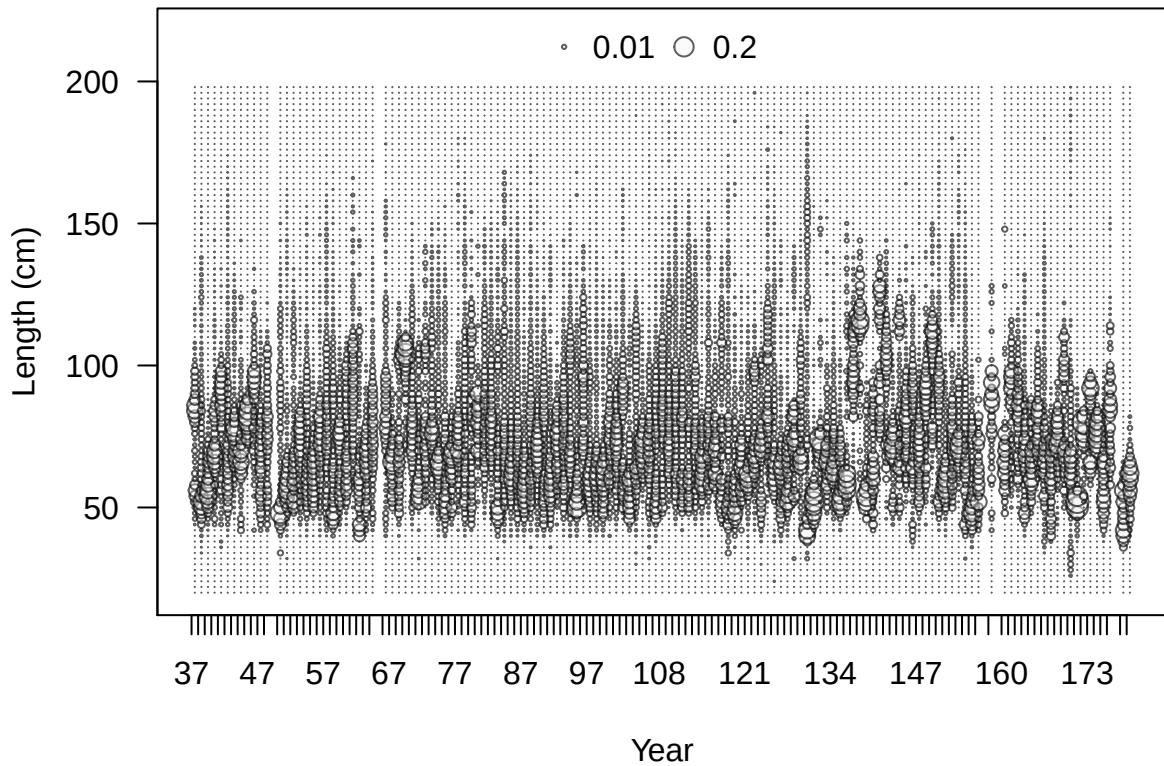




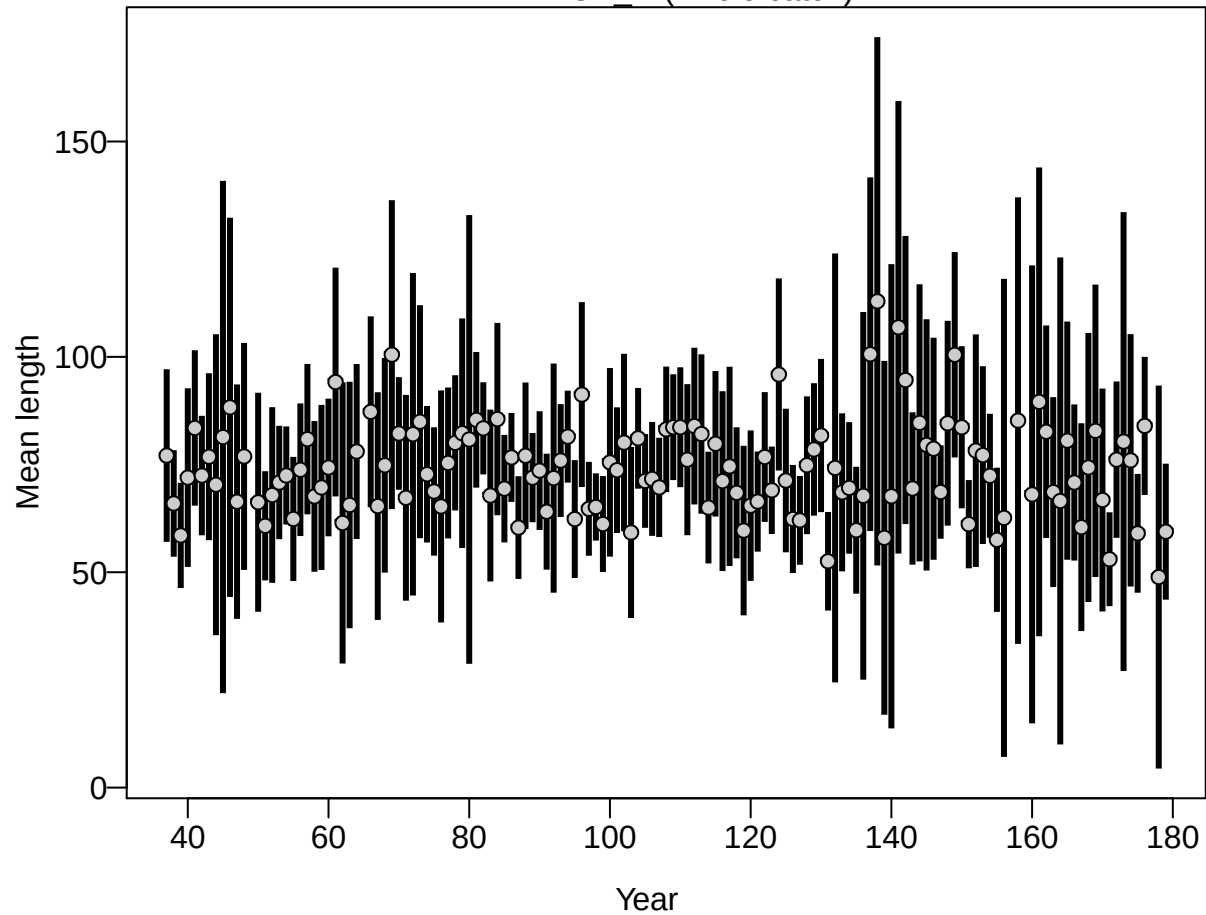


Proportion

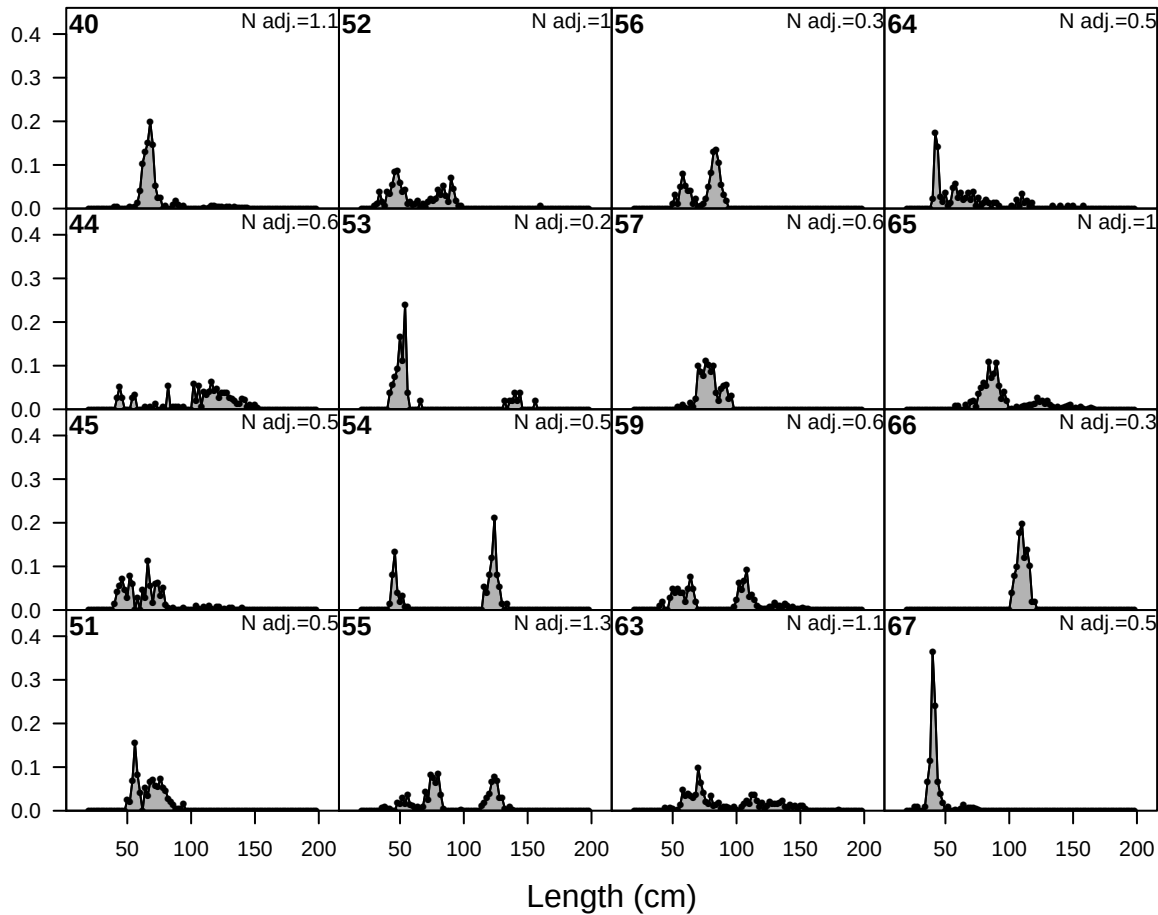




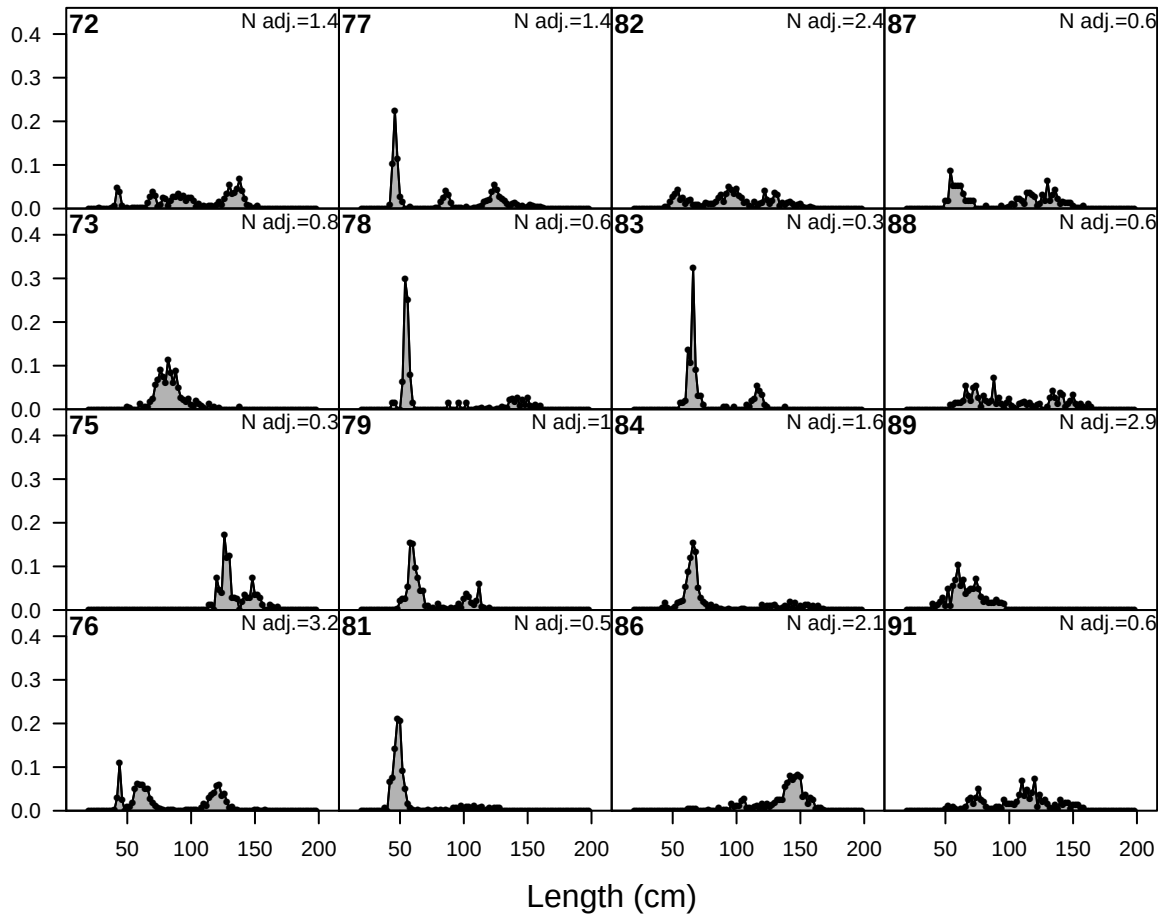
F11-NOA_N (whole catch)

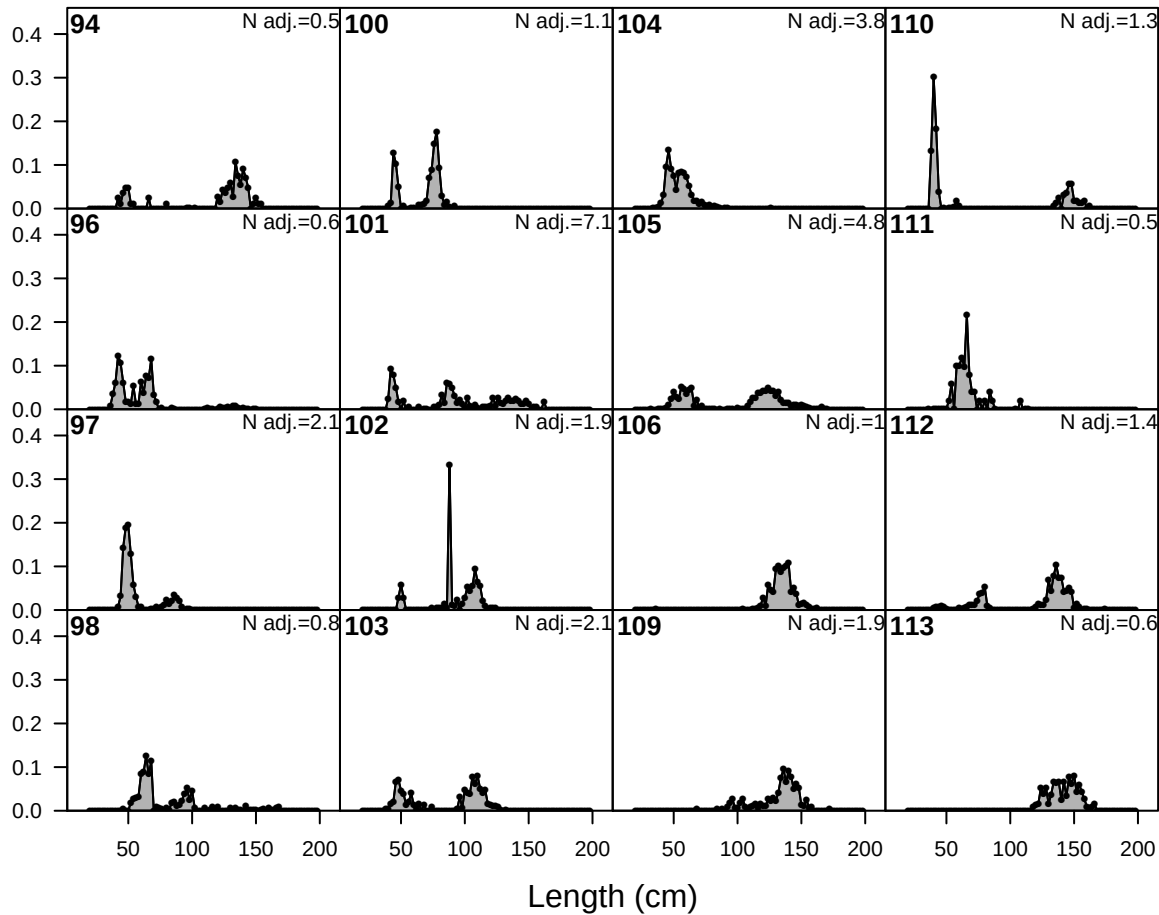


Proportion

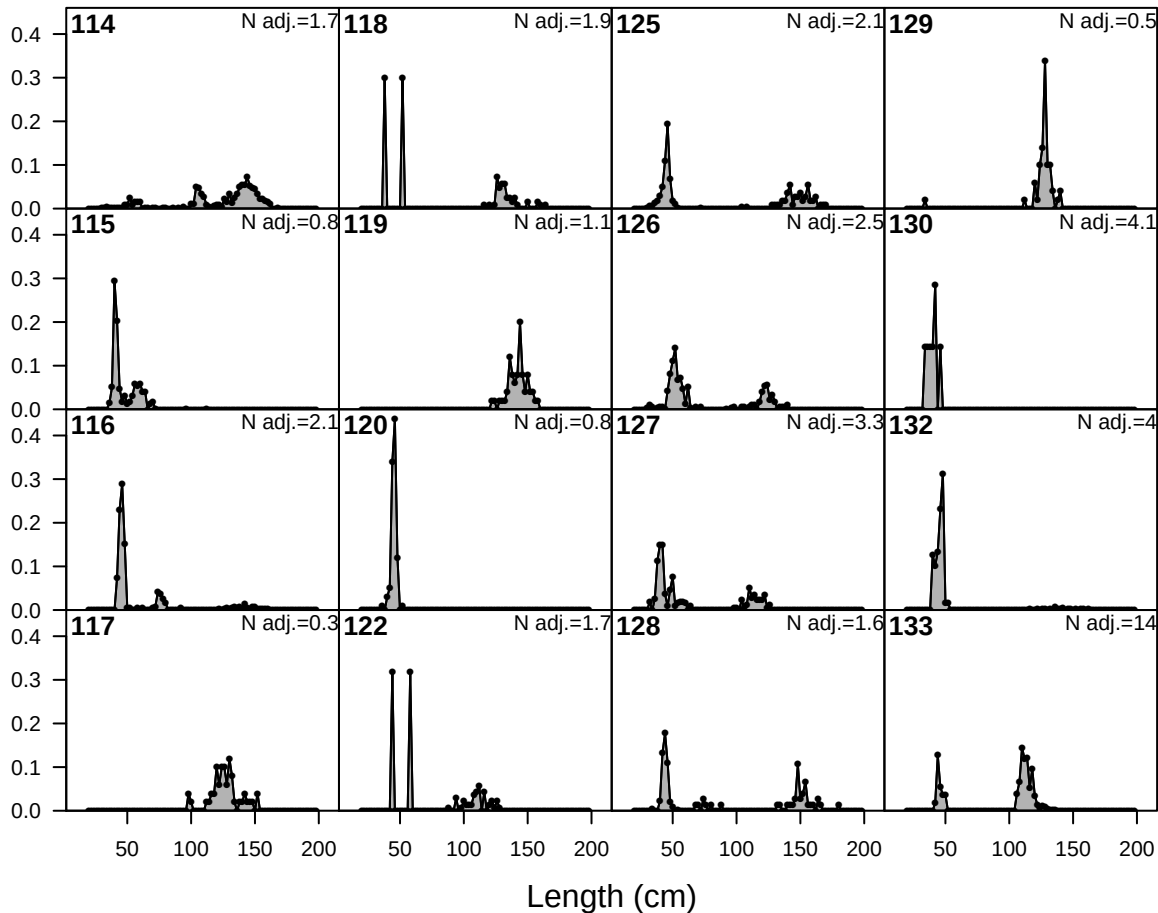


Proportion

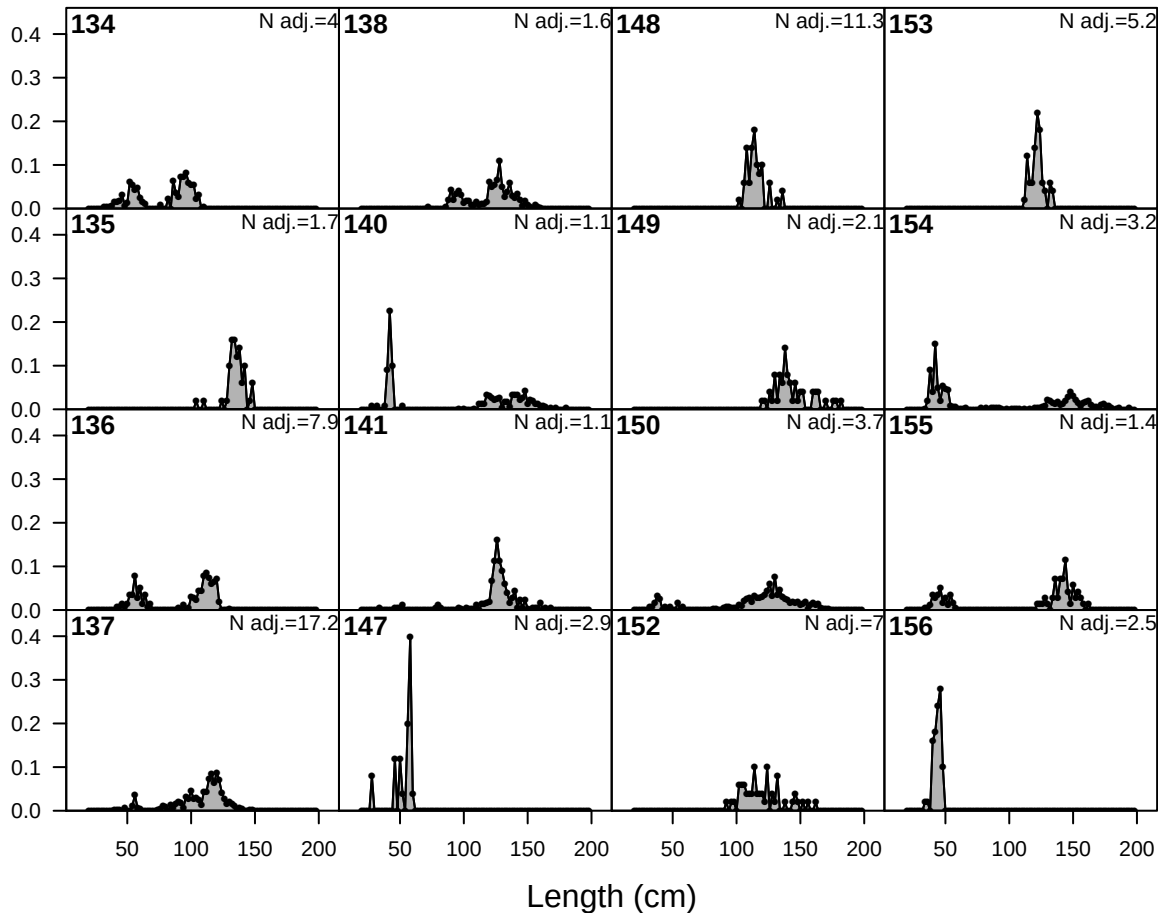




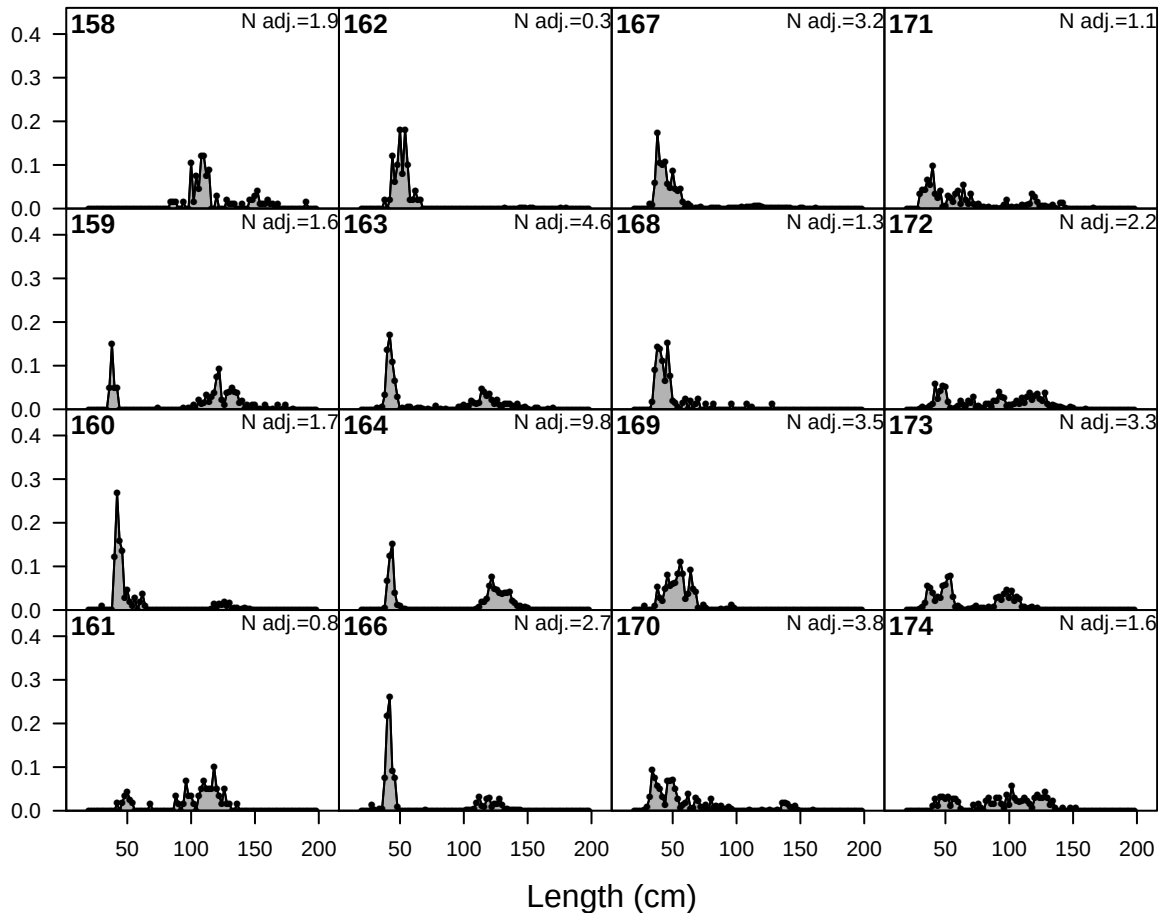
Proportion



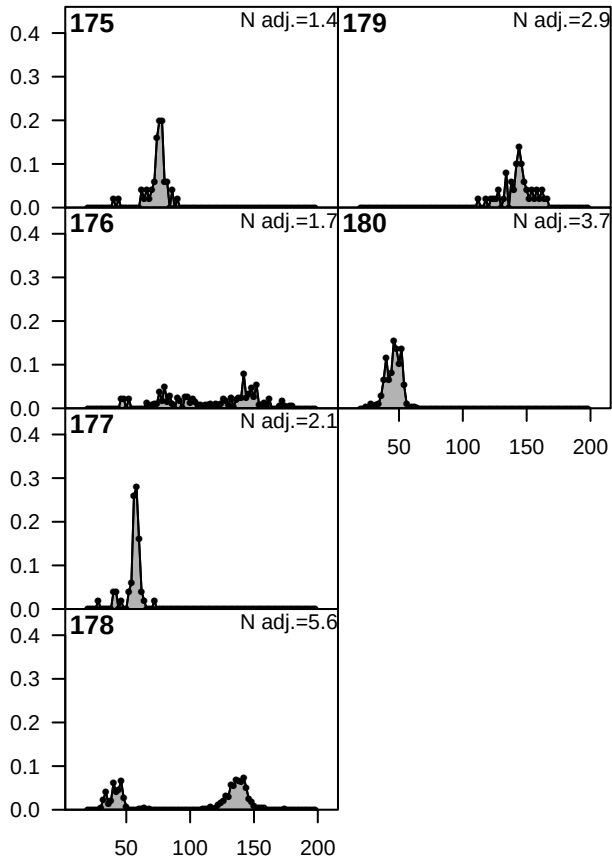
Proportion



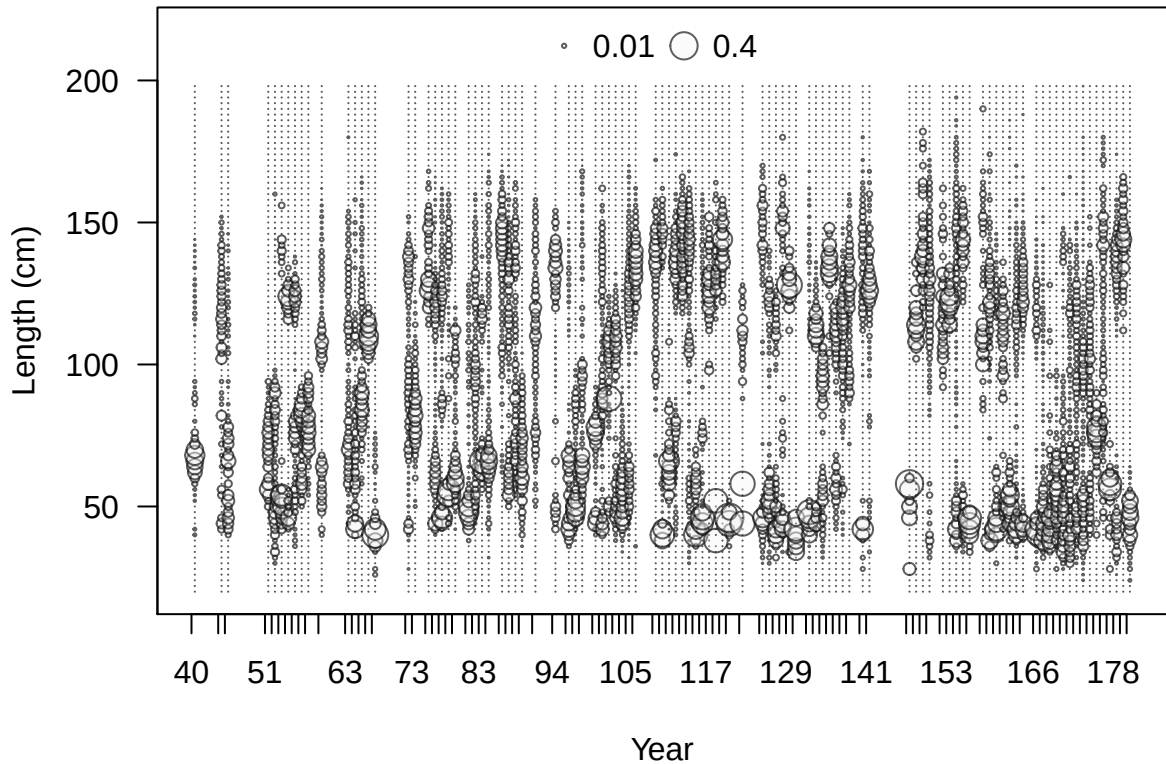
Proportion



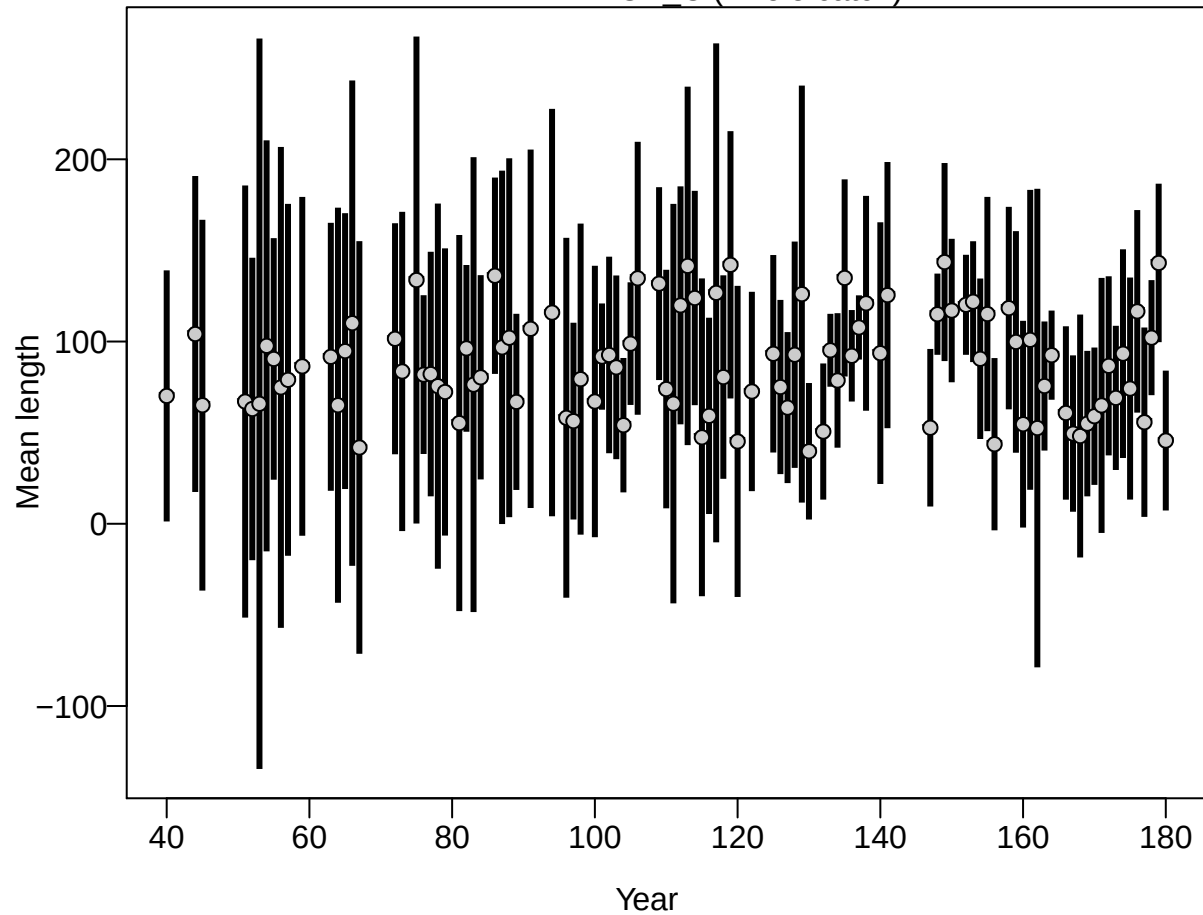
Proportion



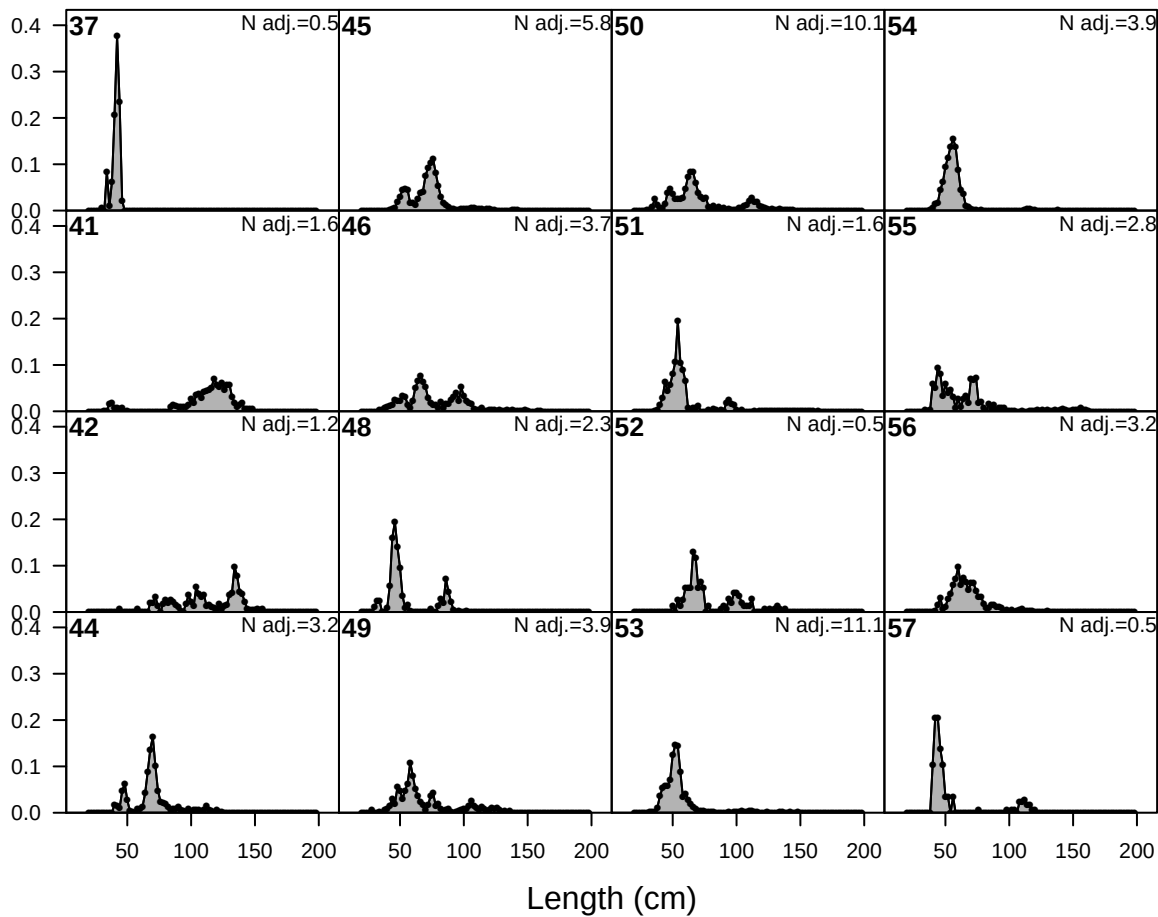
Length (cm)



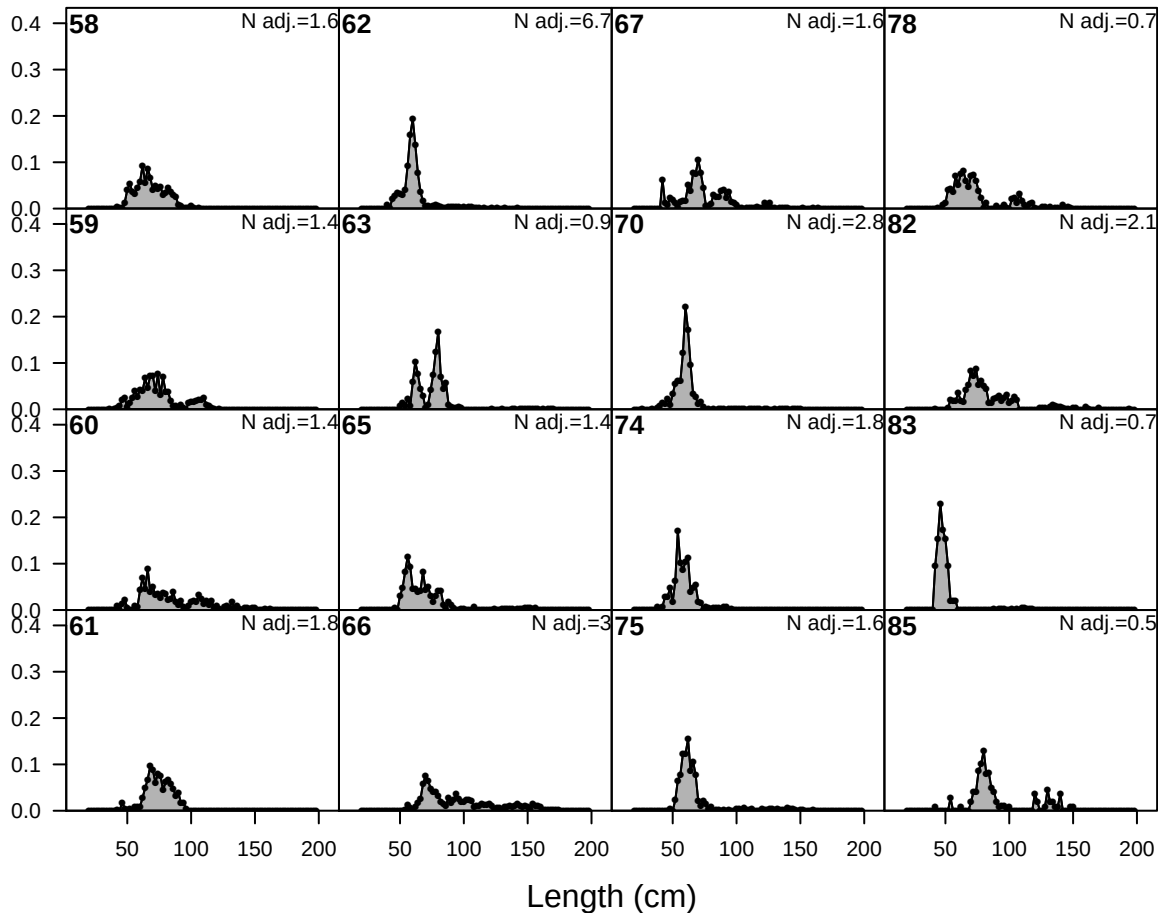
F12-NOA_C (whole catch)



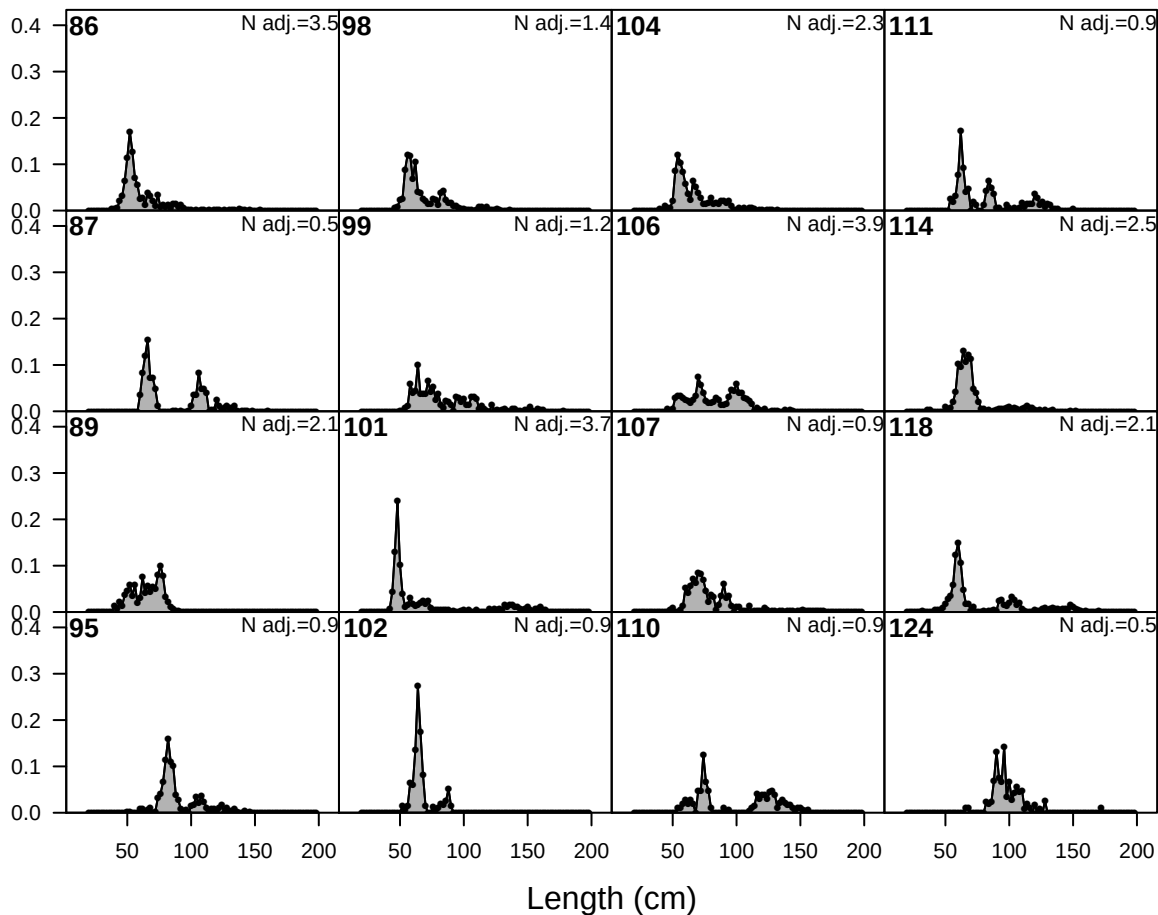
Proportion



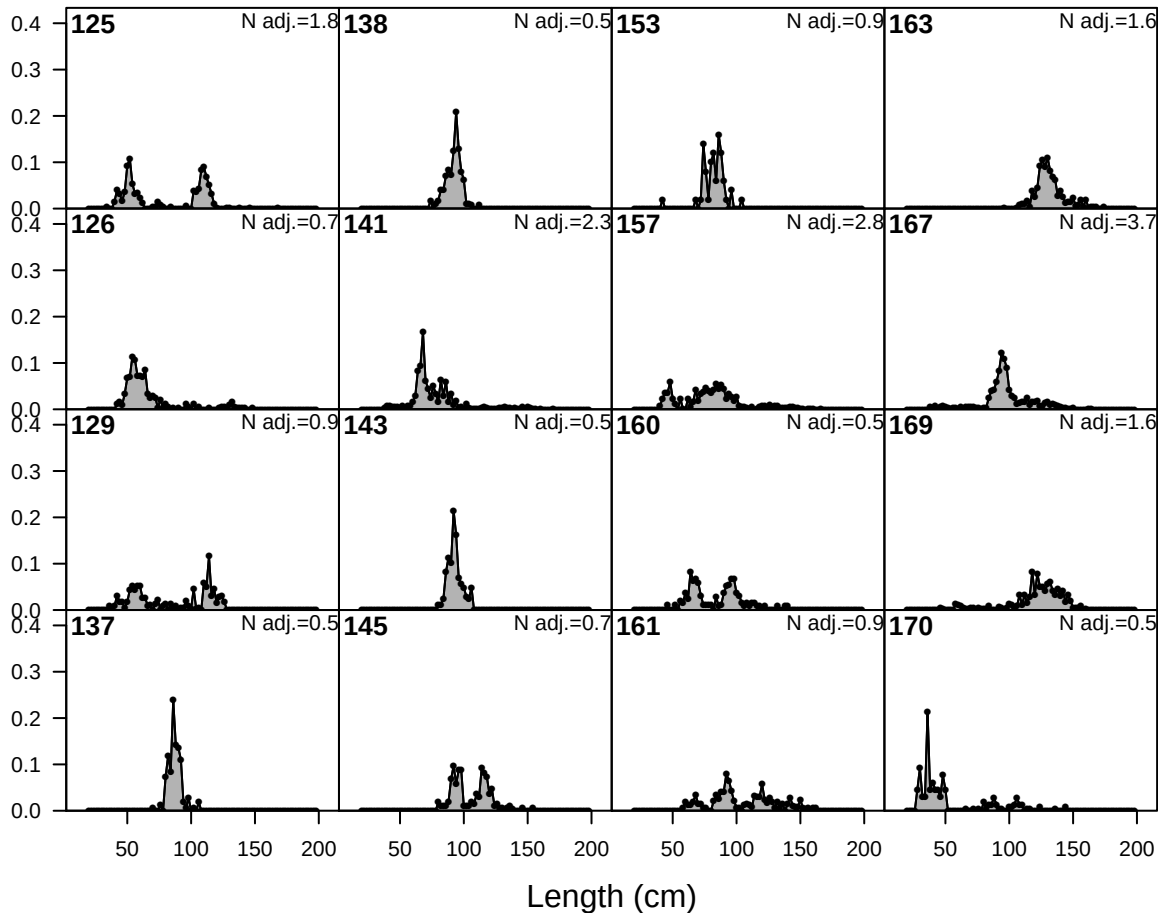
Proportion

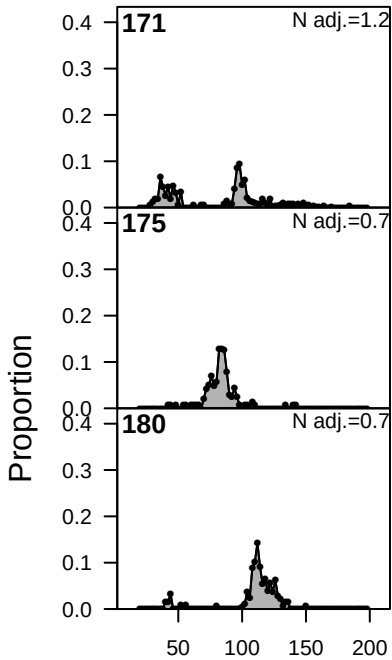


Proportion

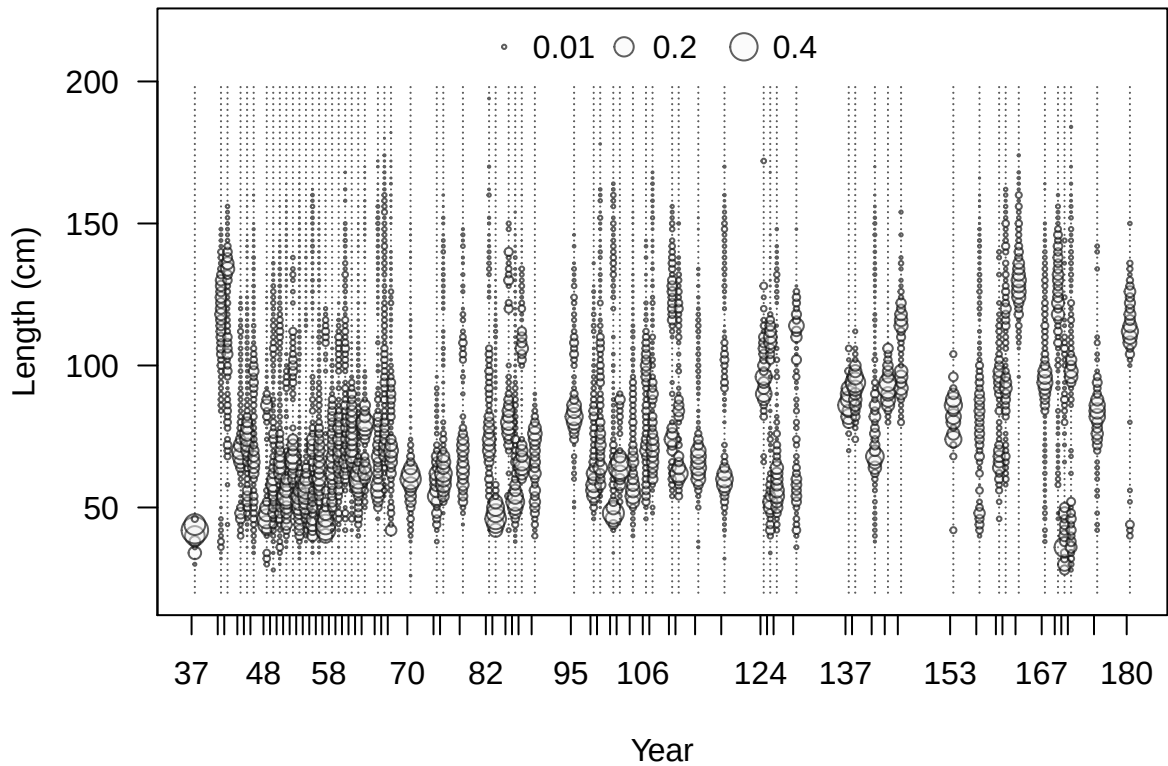


Proportion

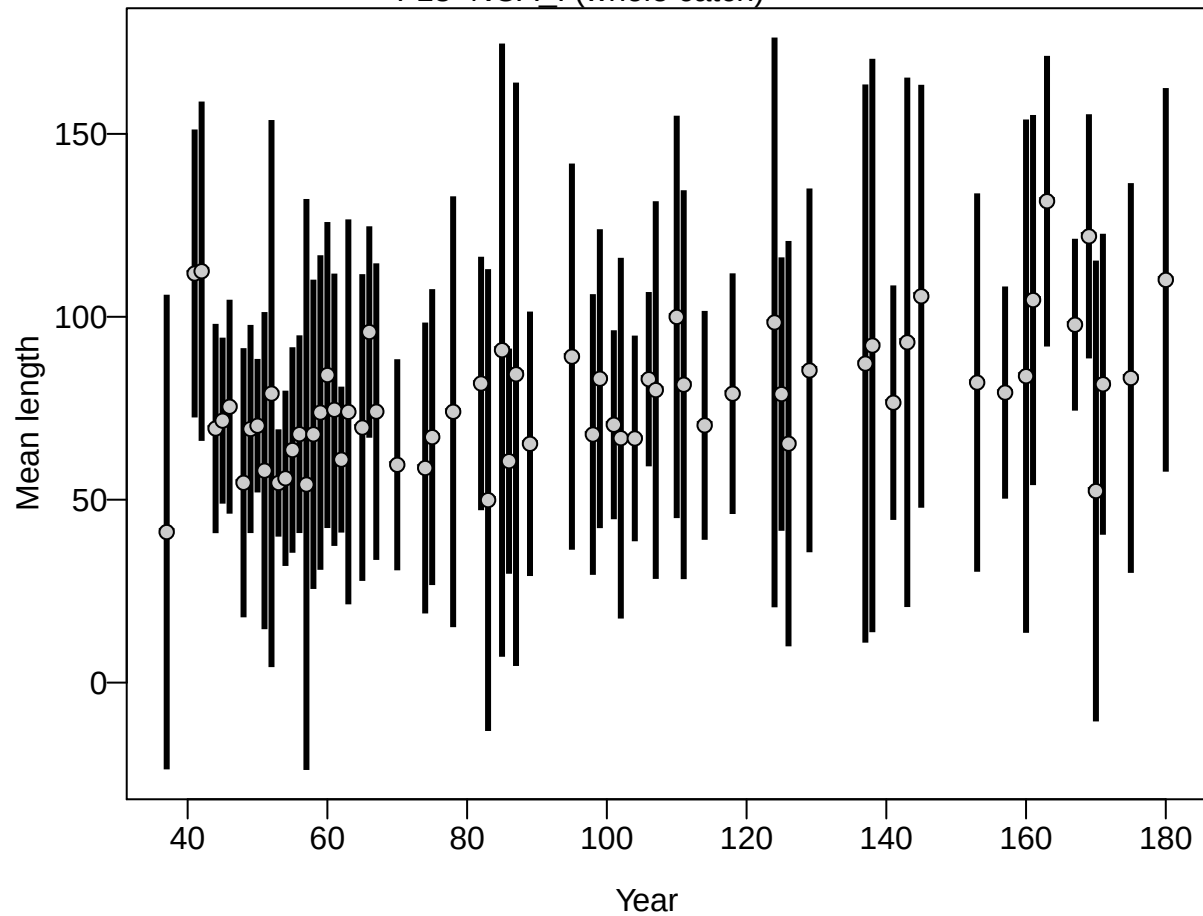




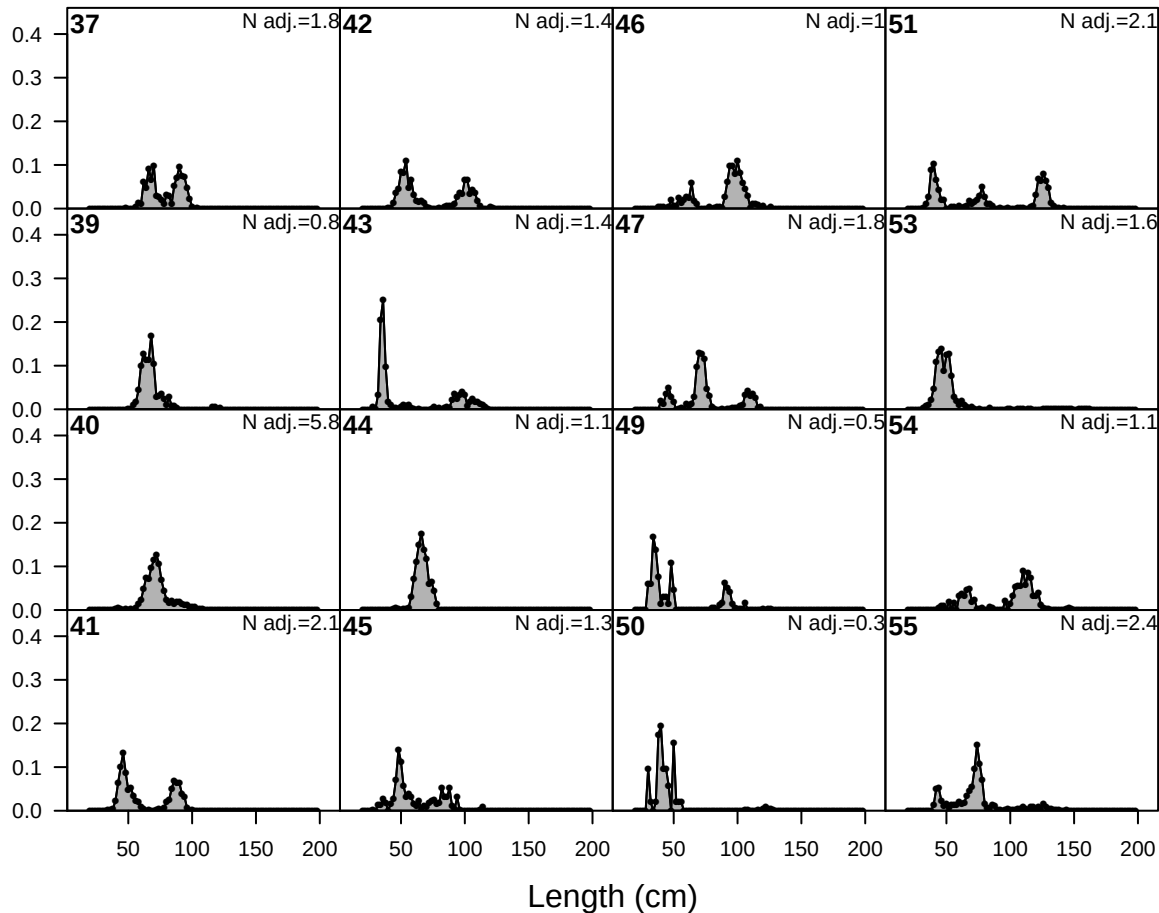
Length (cm)



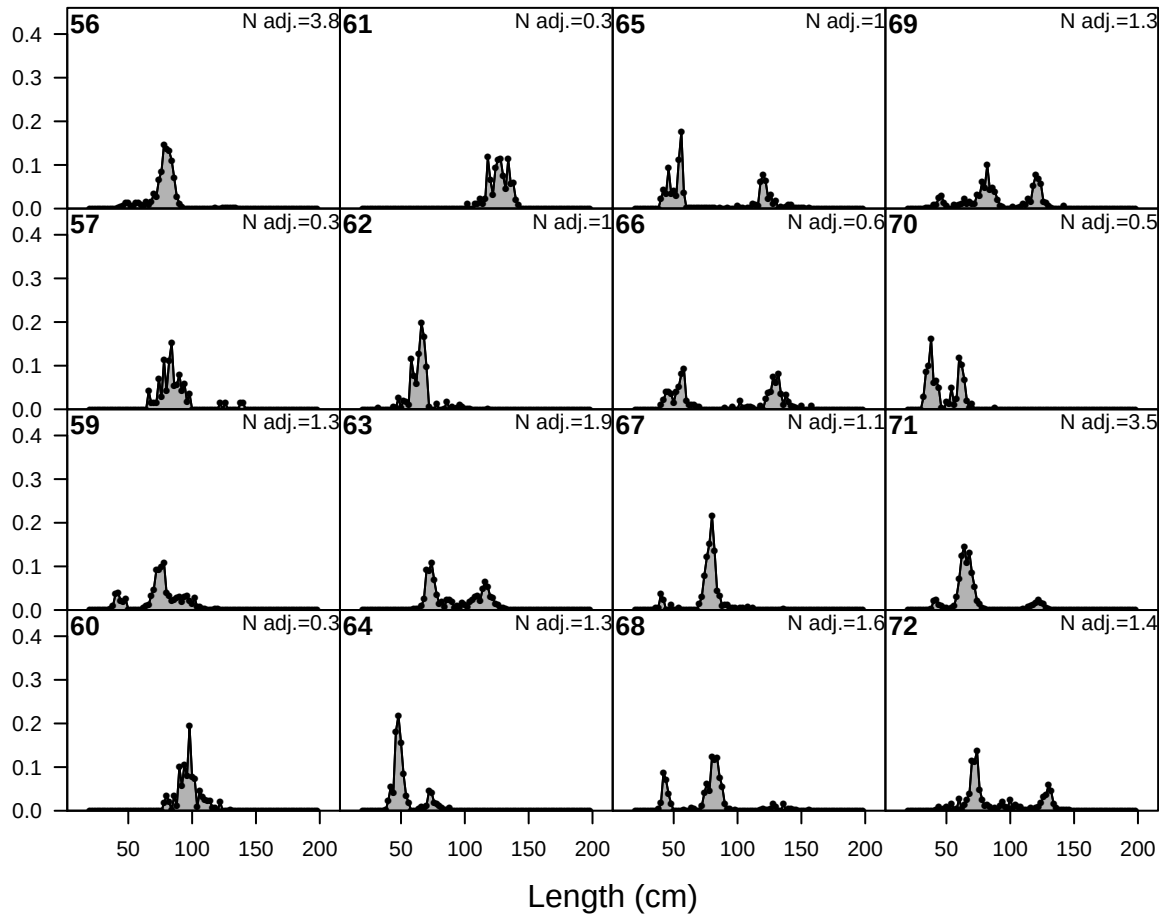
F13-NOA_I (whole catch)



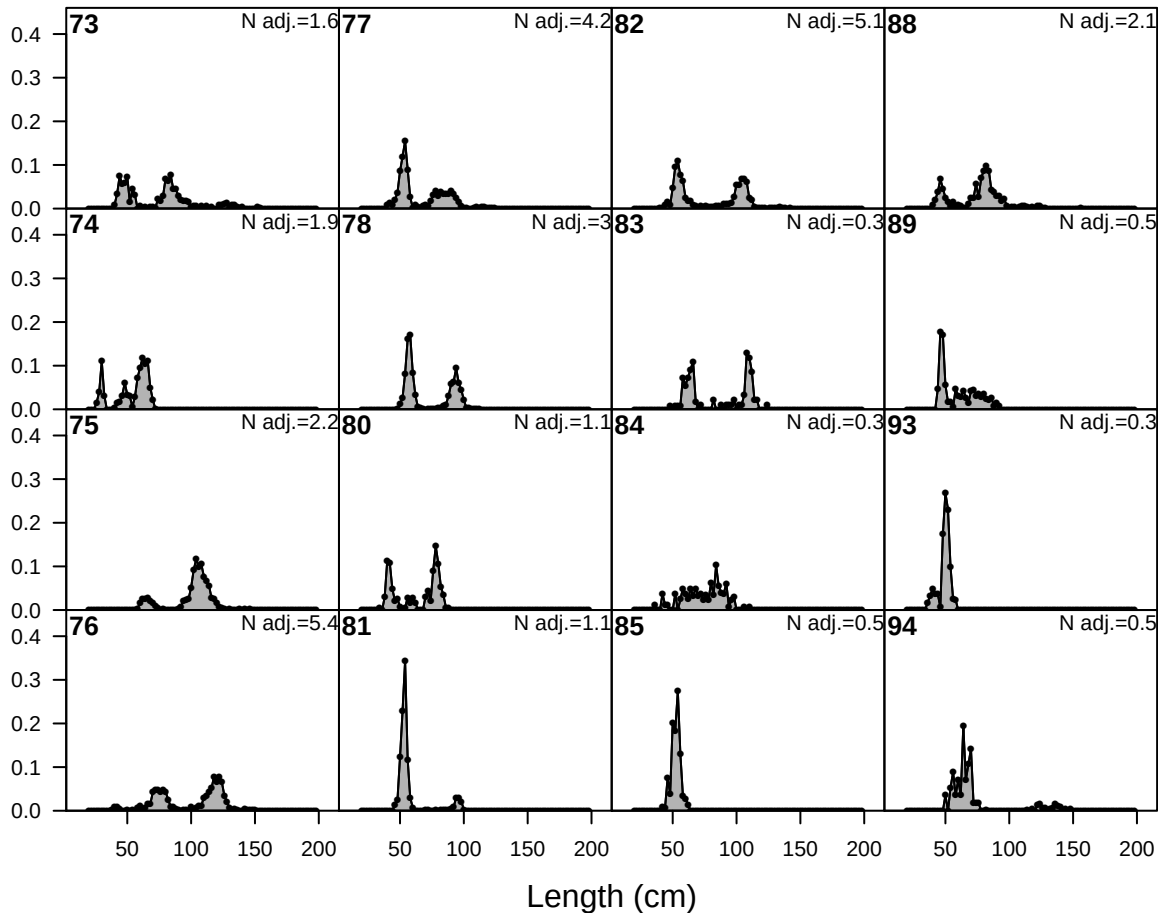
Proportion

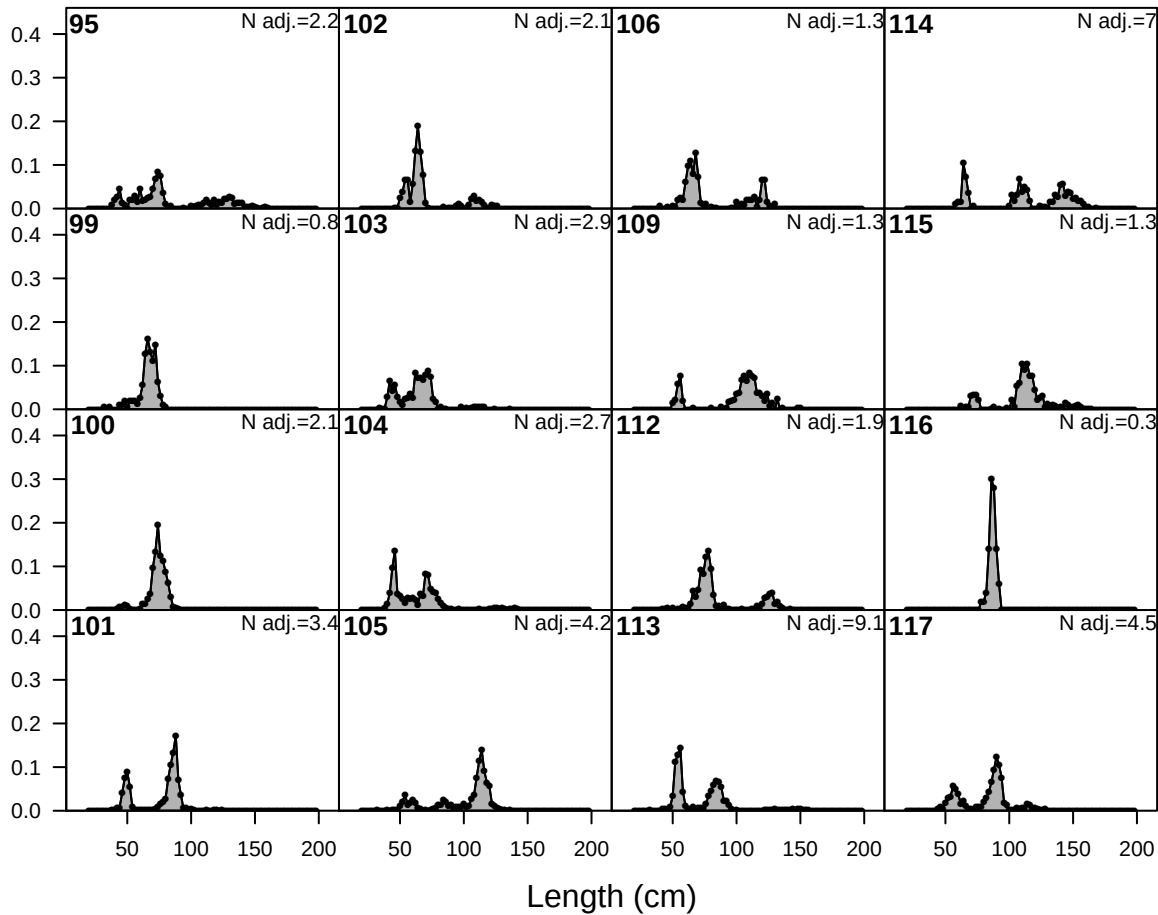


Proportion

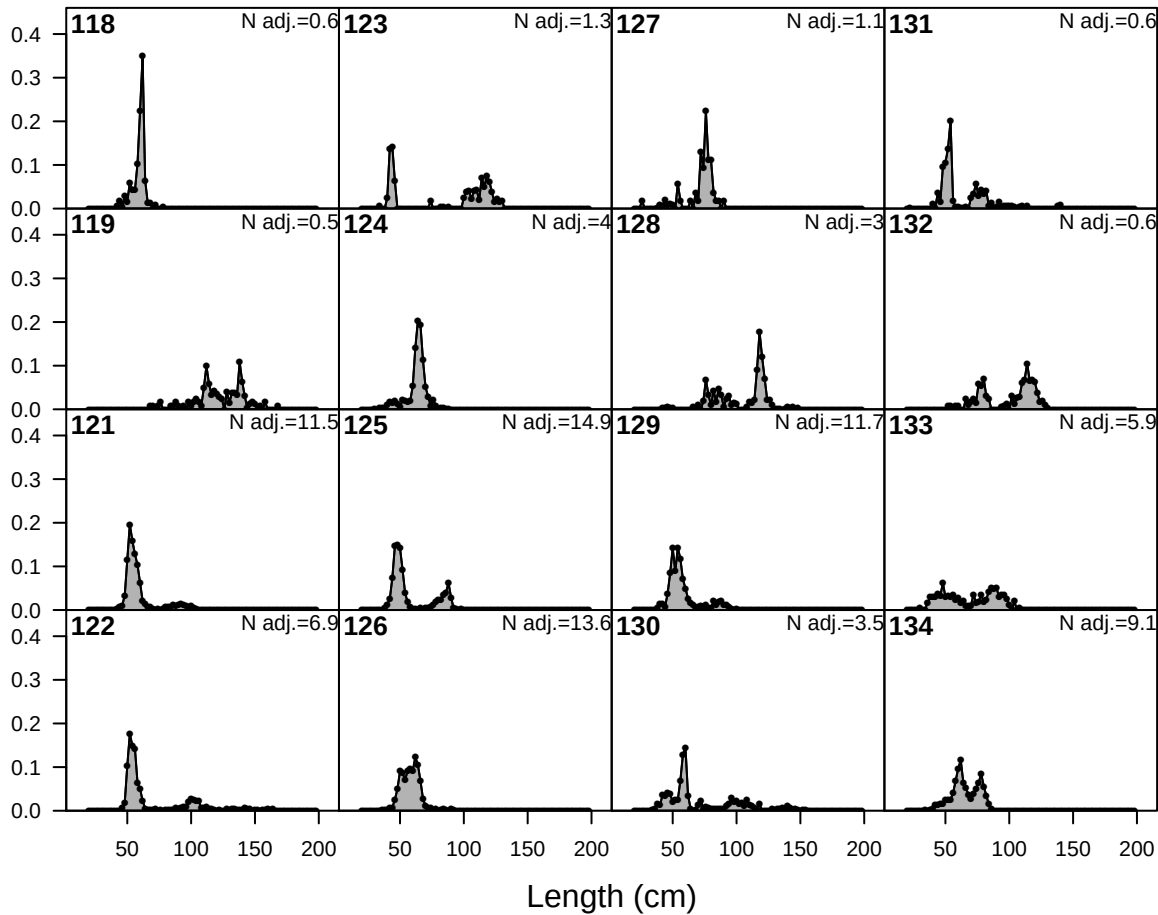


Proportion

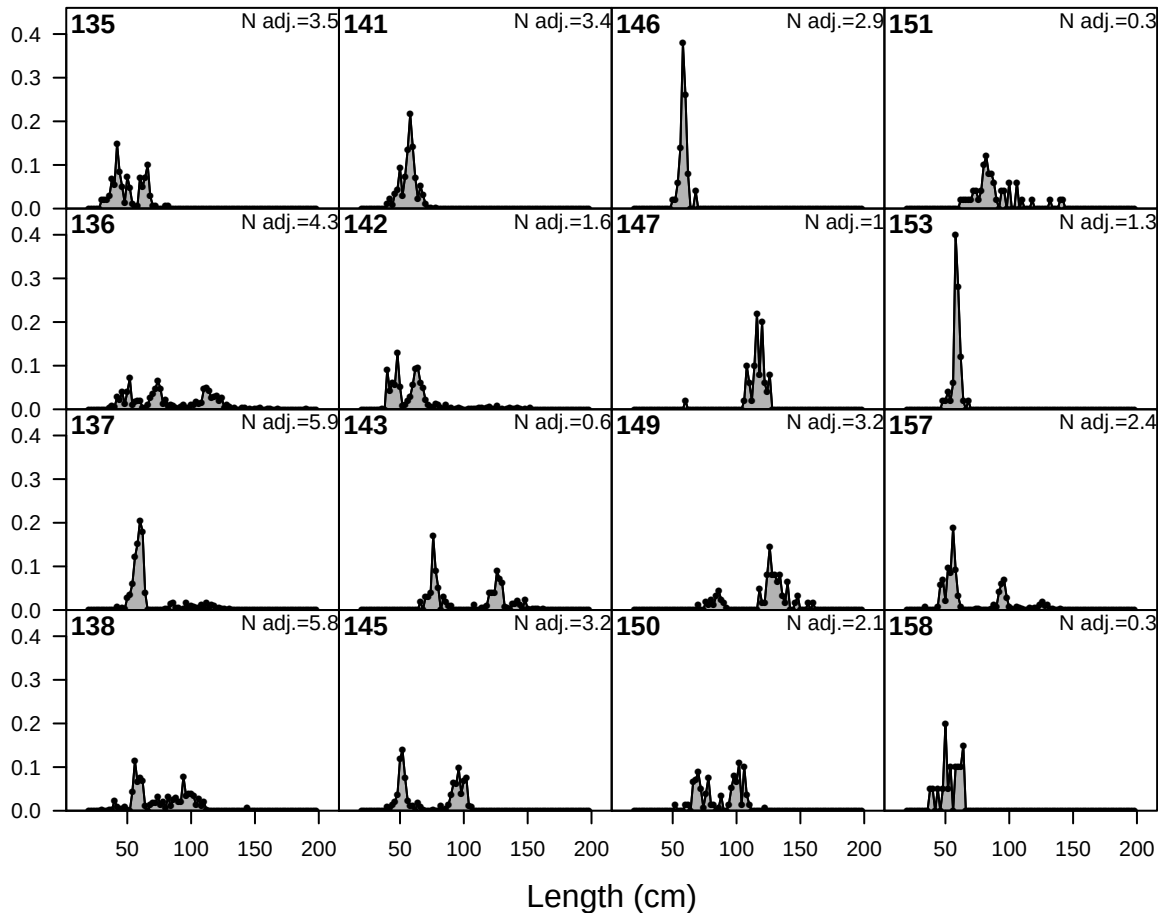




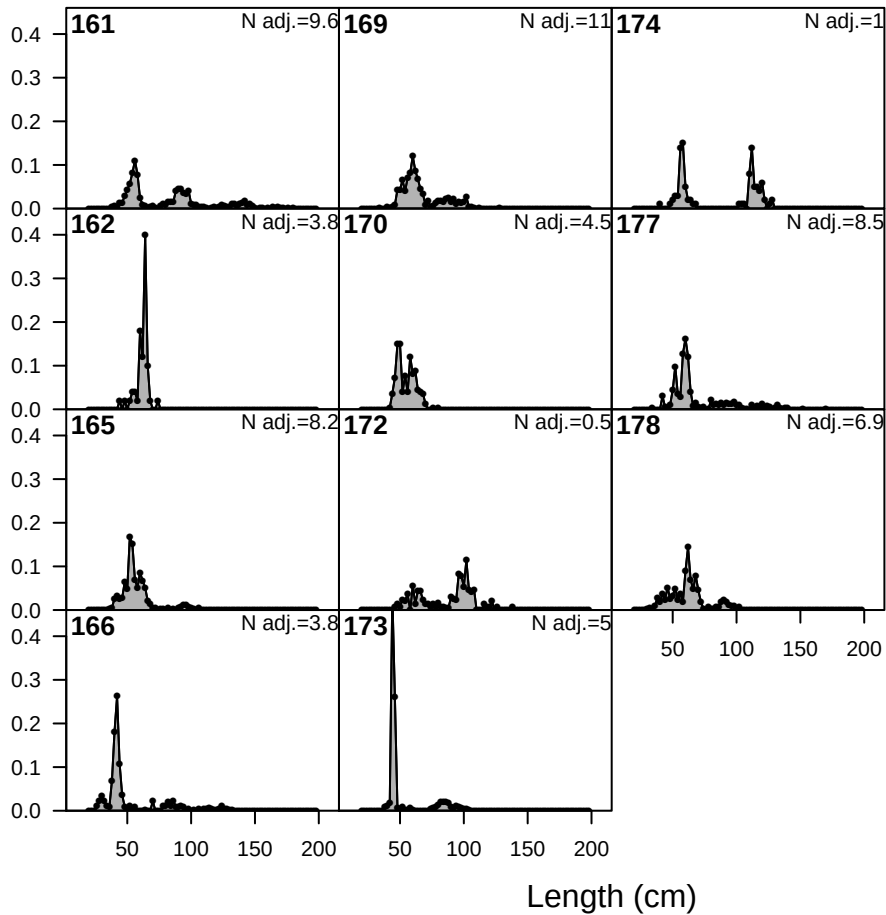
Proportion

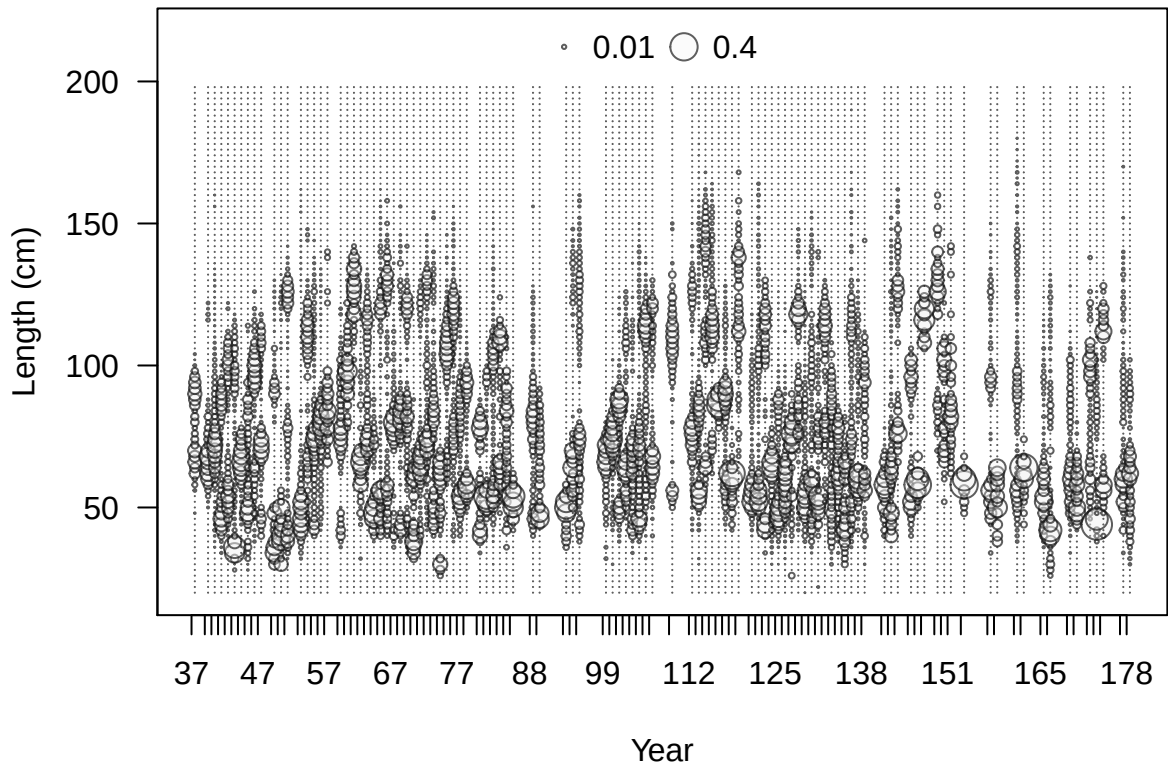


Proportion

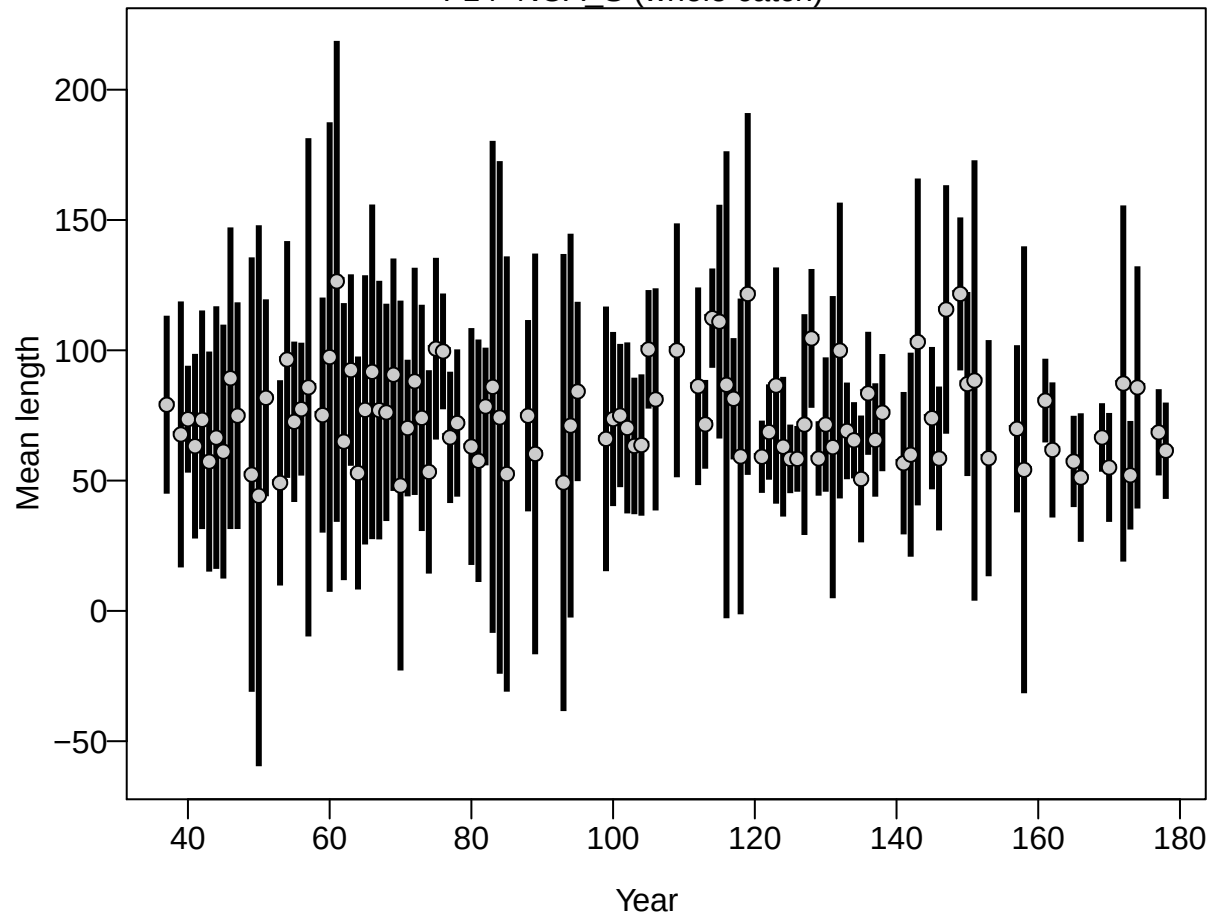


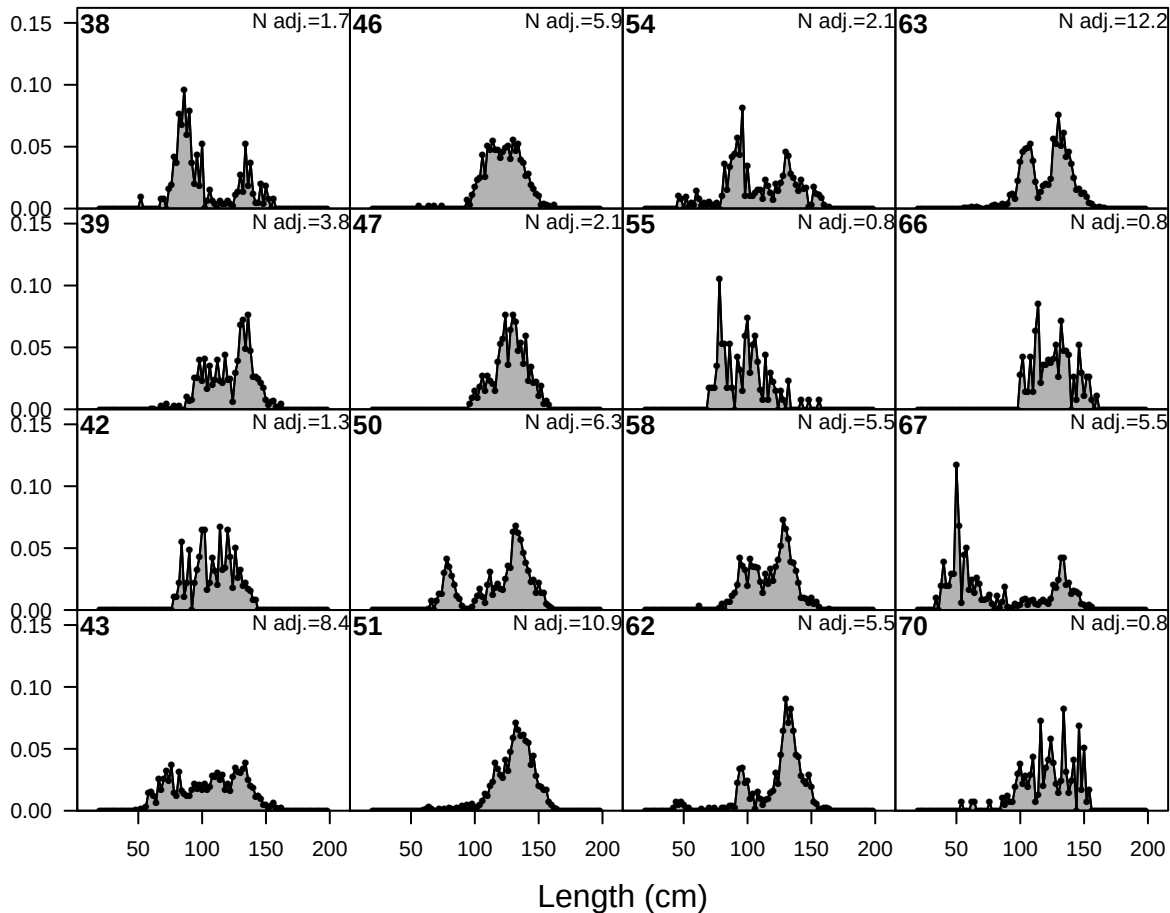
Proportion



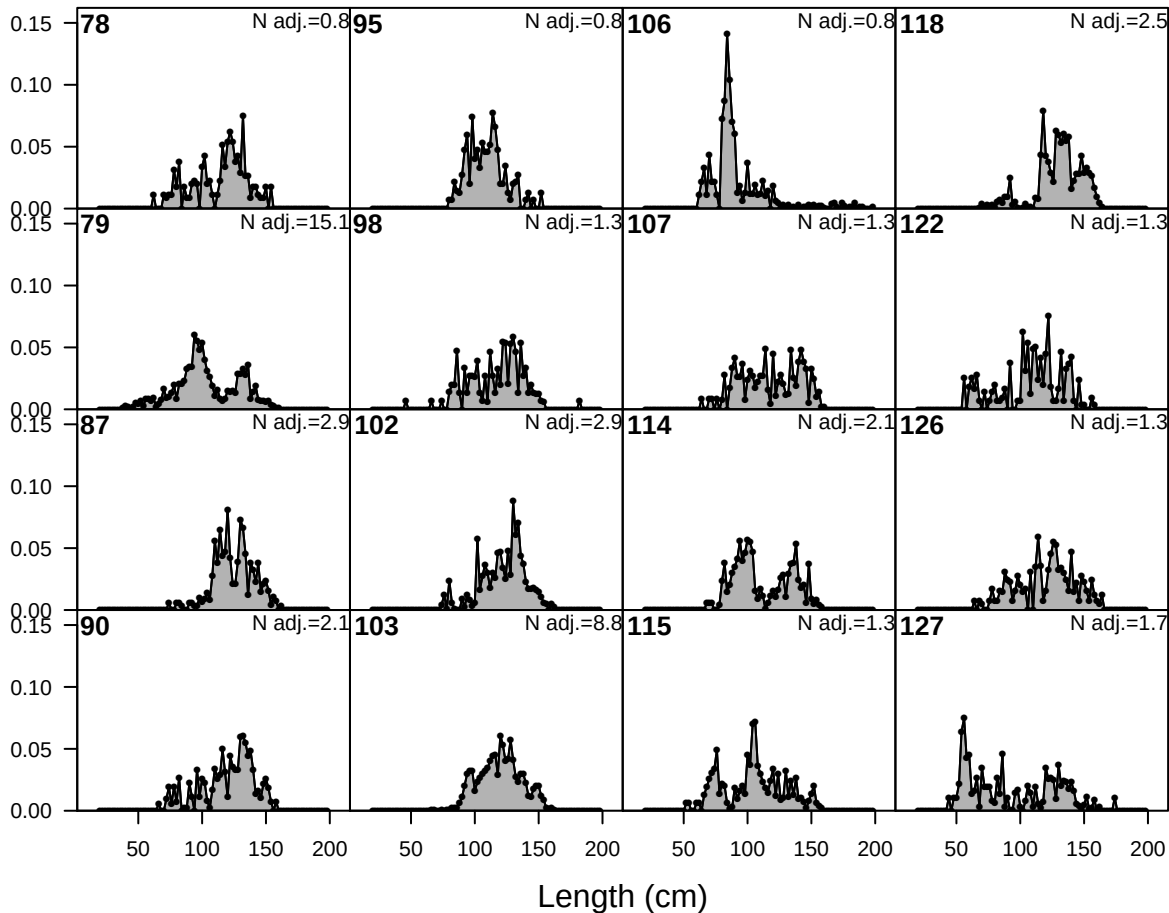


F14-NOA_S (whole catch)

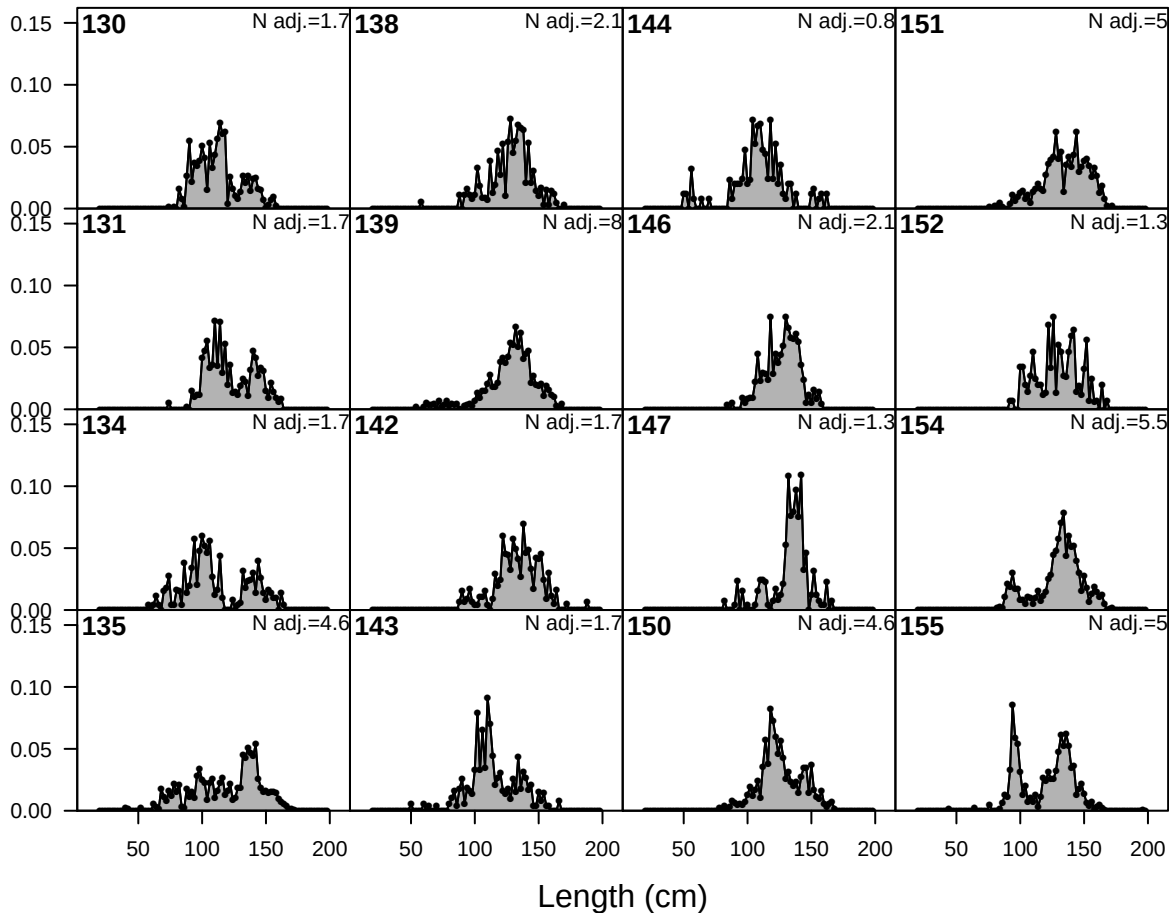




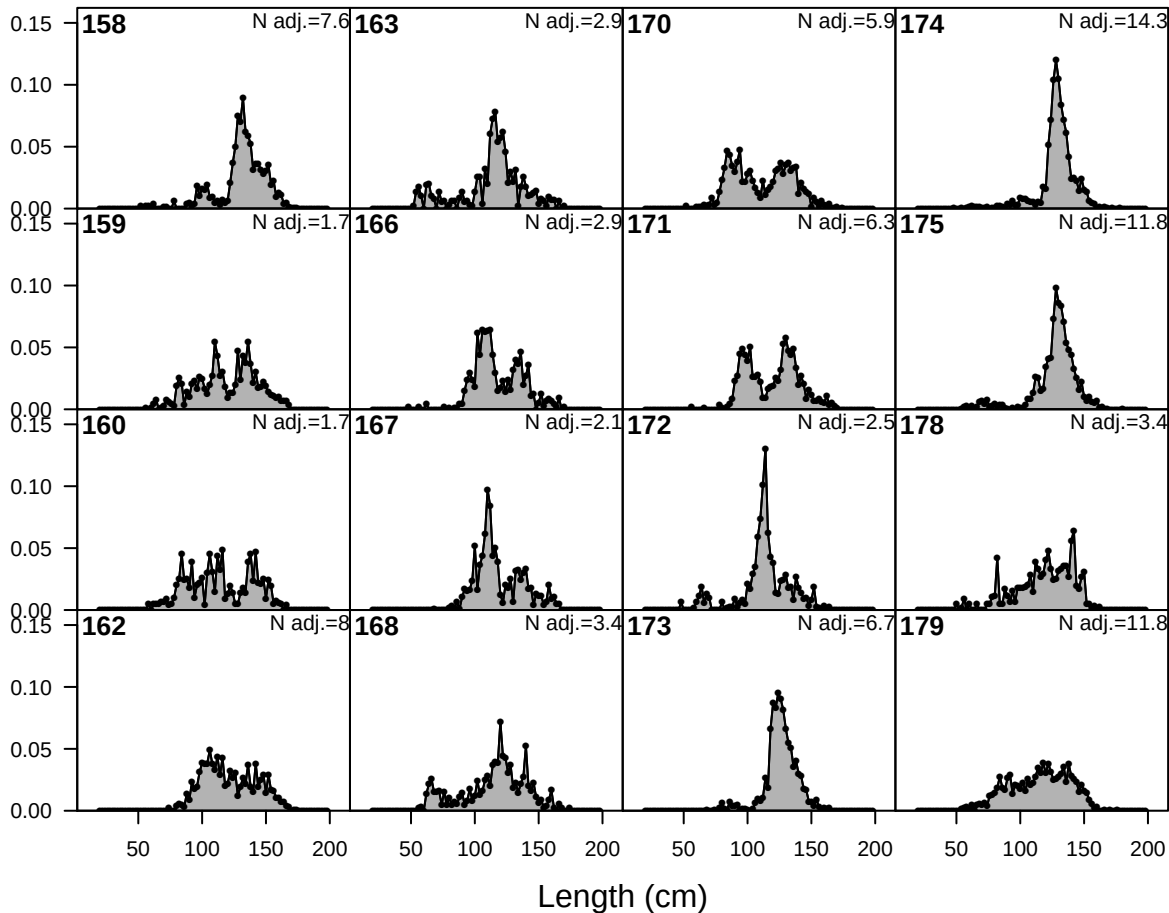
Proportion

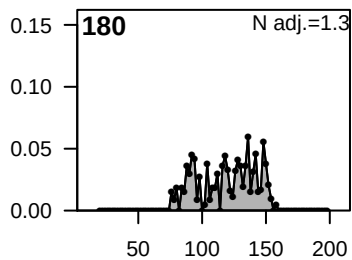


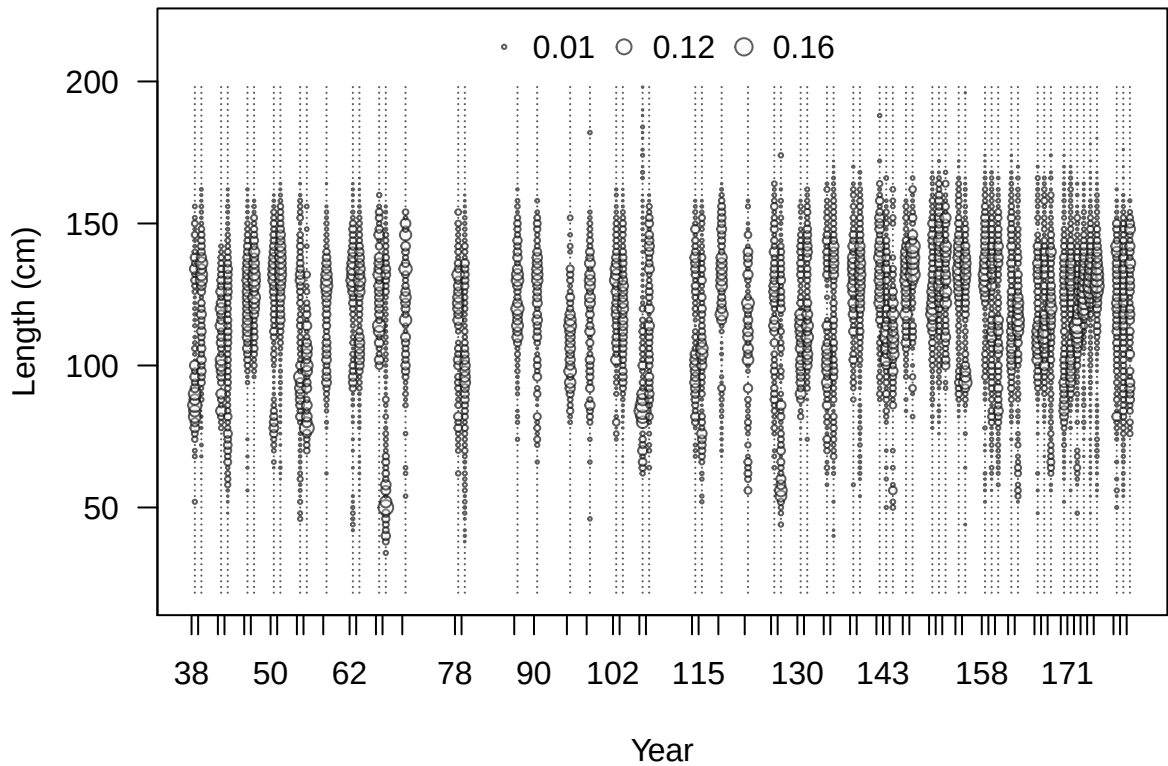
Proportion



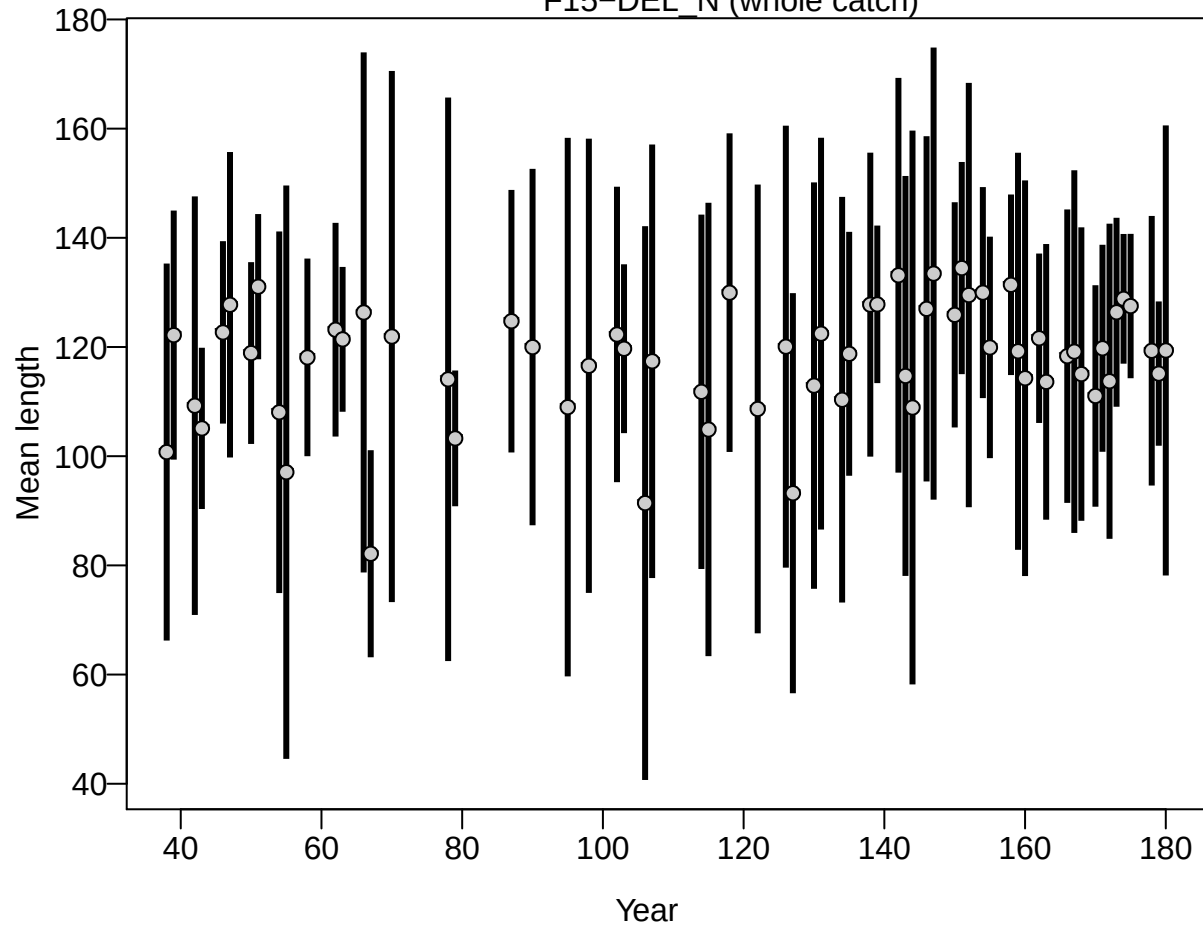
Proportion

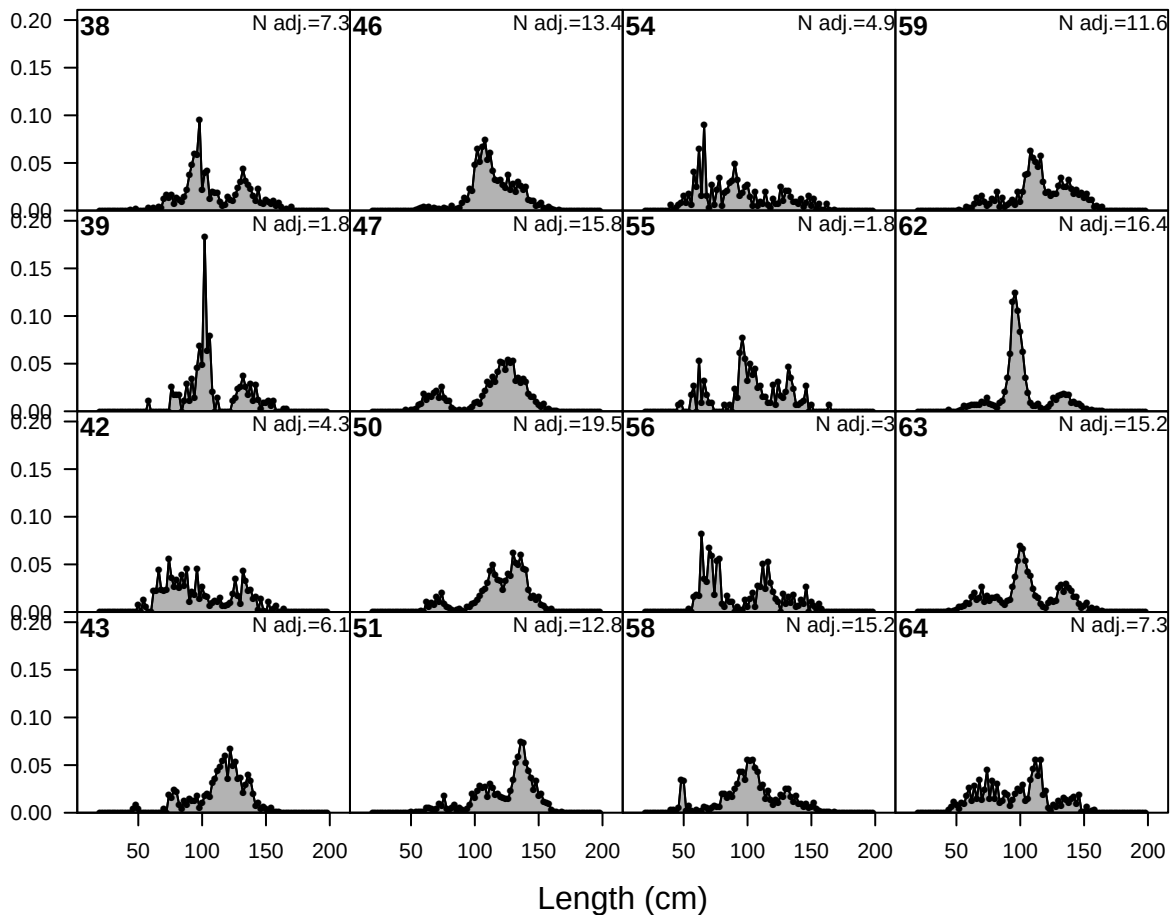




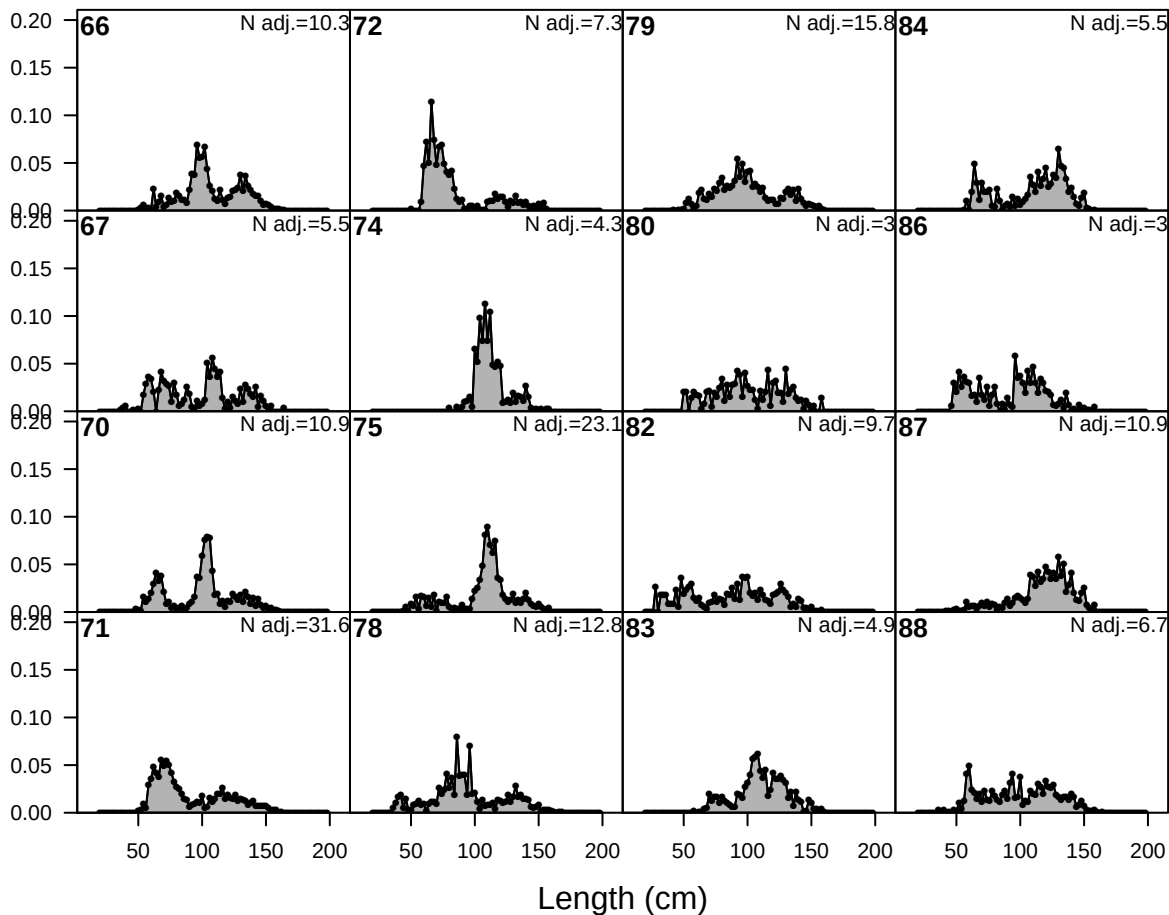


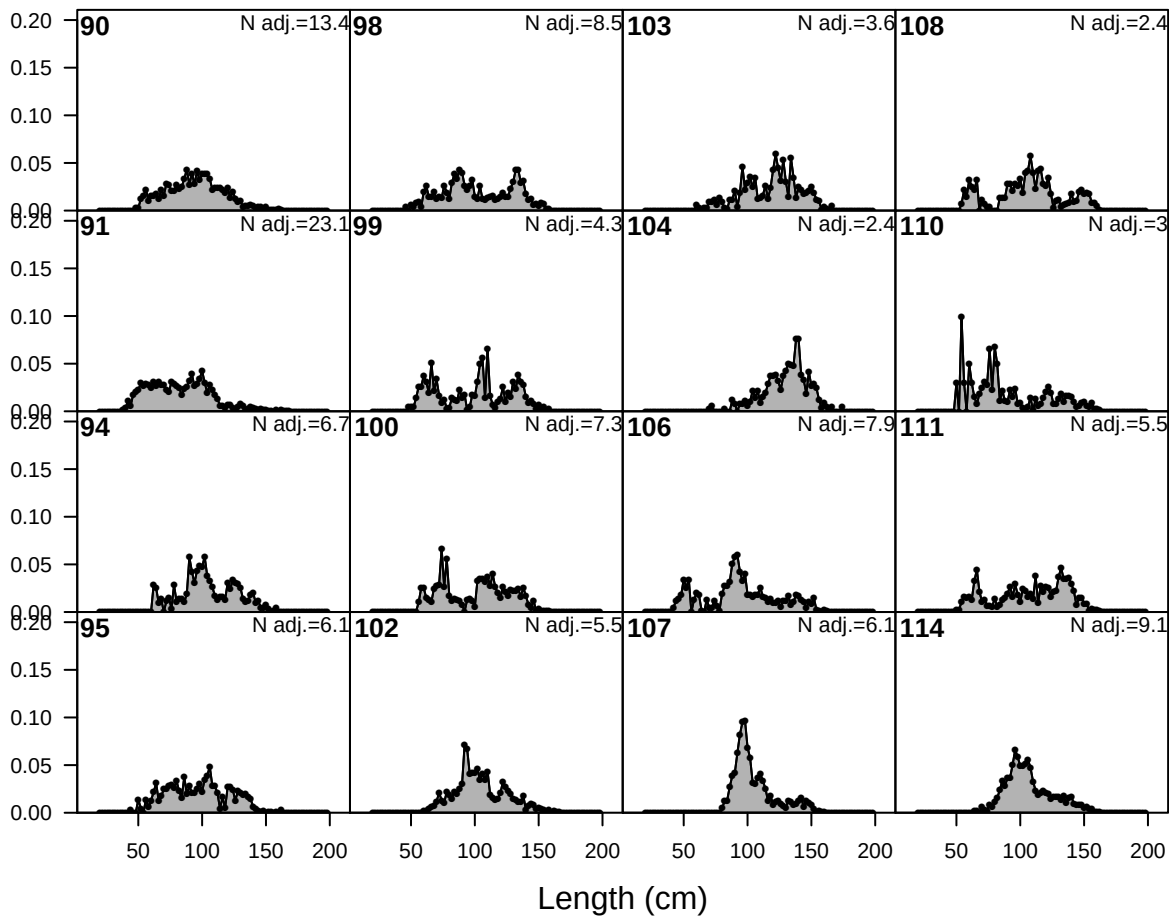
F15-DEL_N (whole catch)



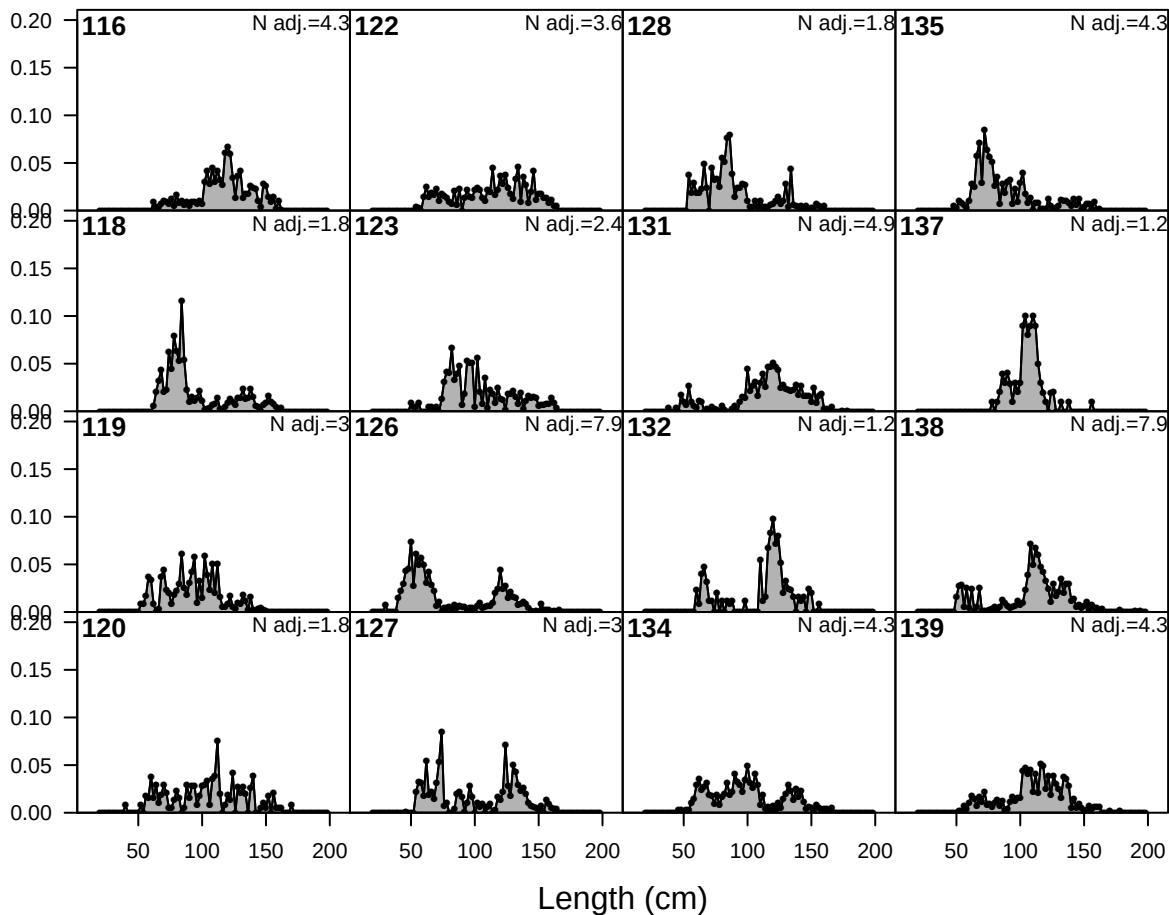


Proportion

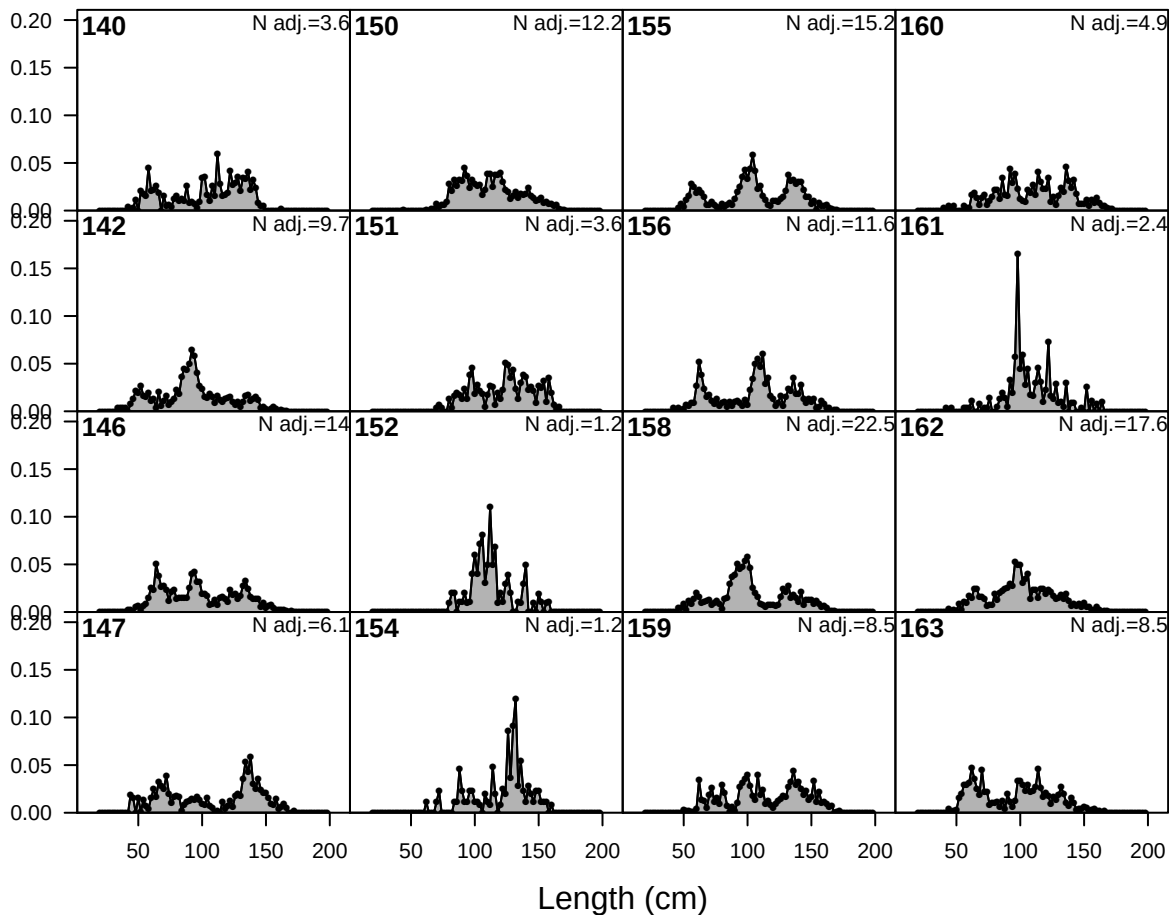




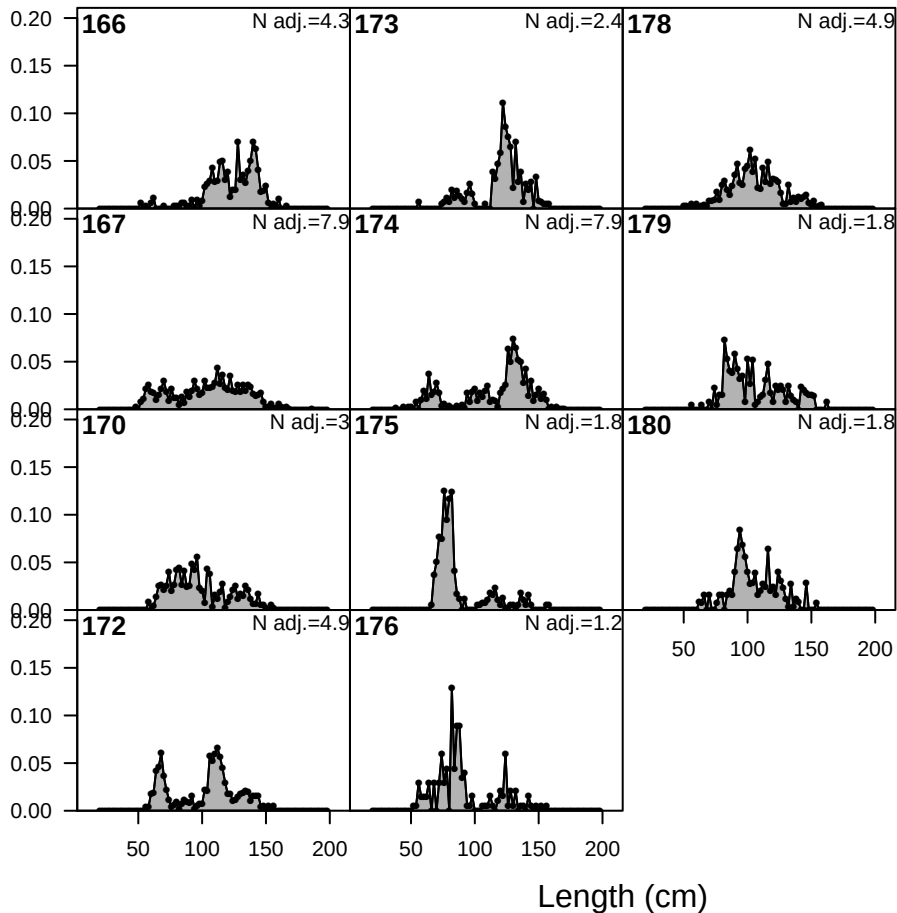
Proportion

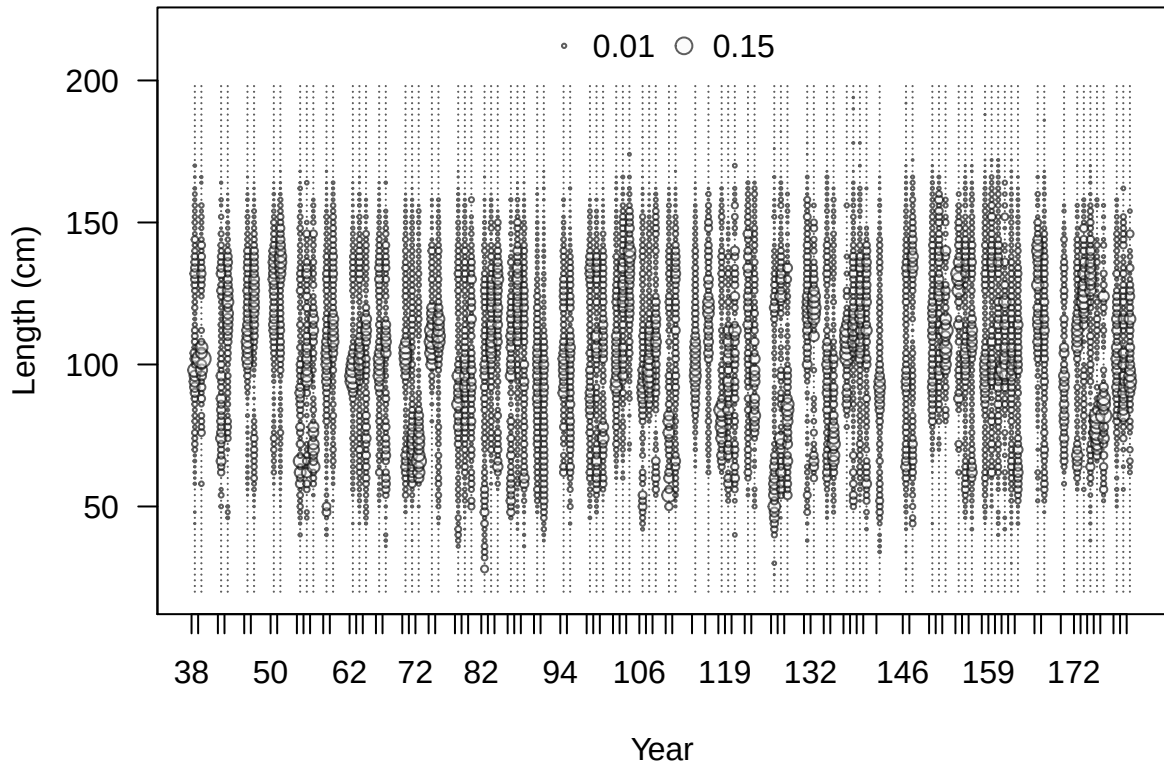


Proportion

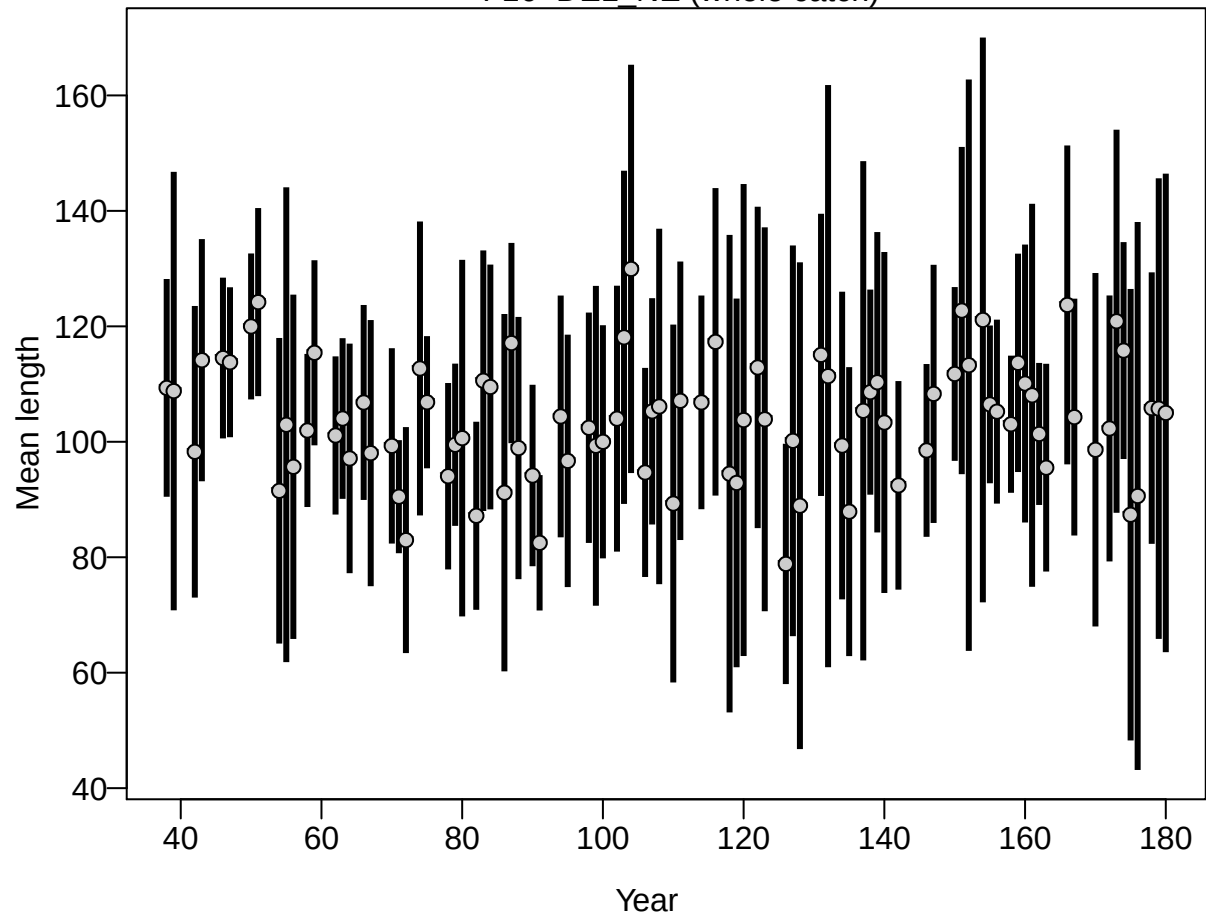


Proportion

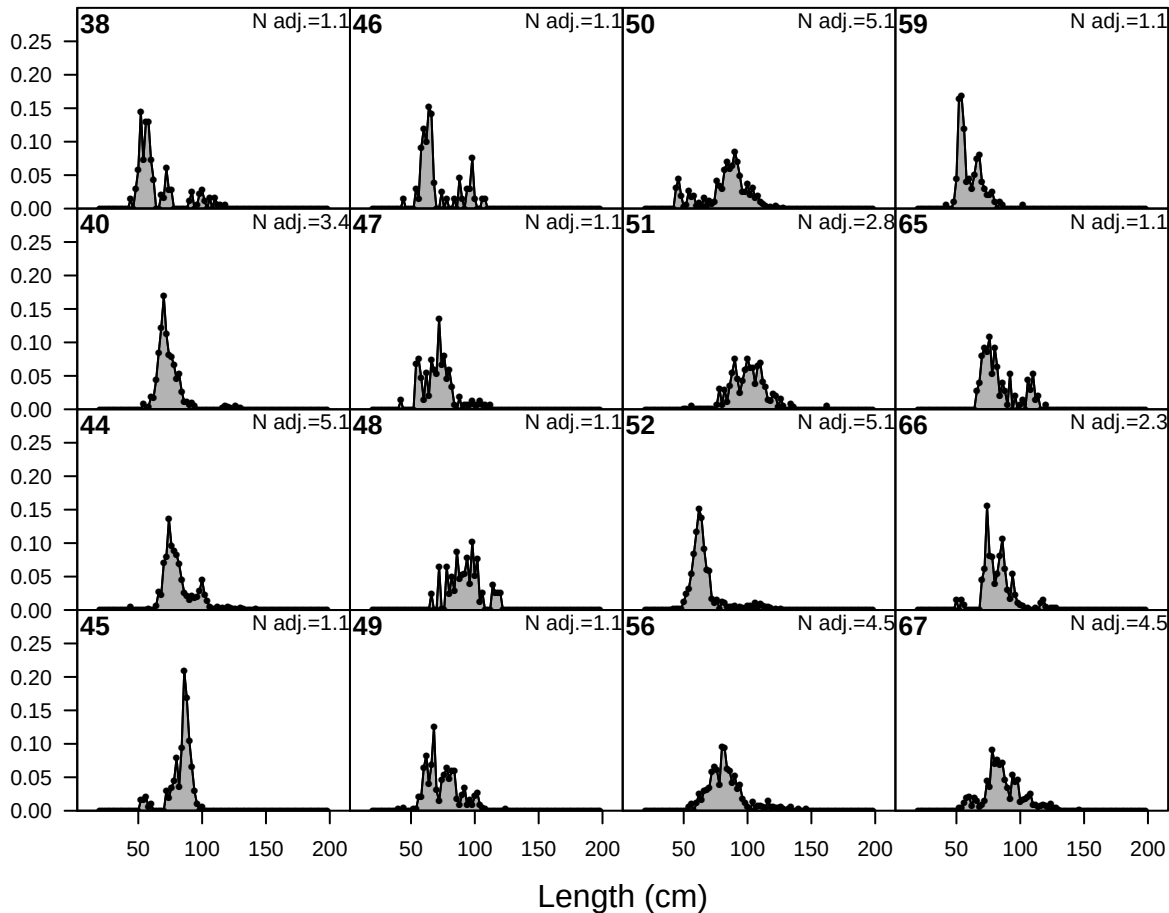




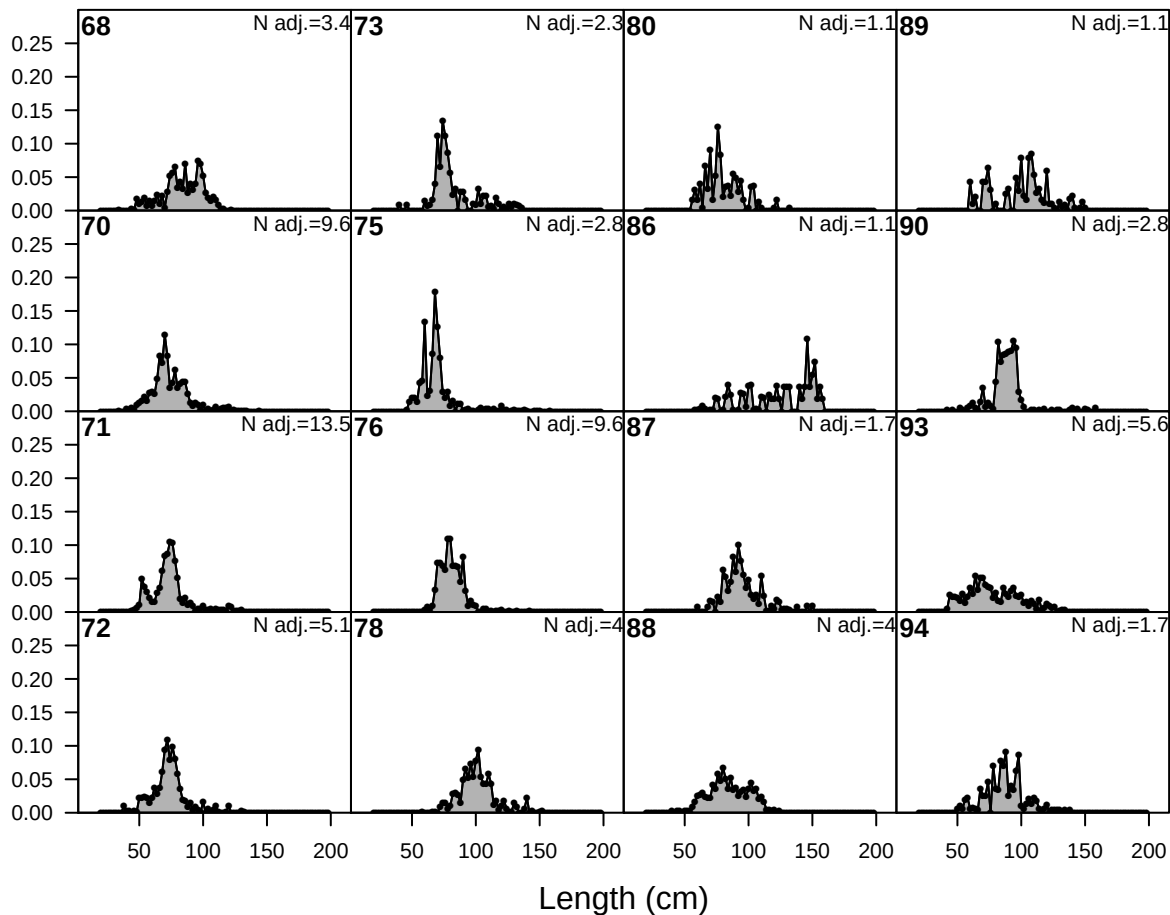
F16-DEL_NE (whole catch)

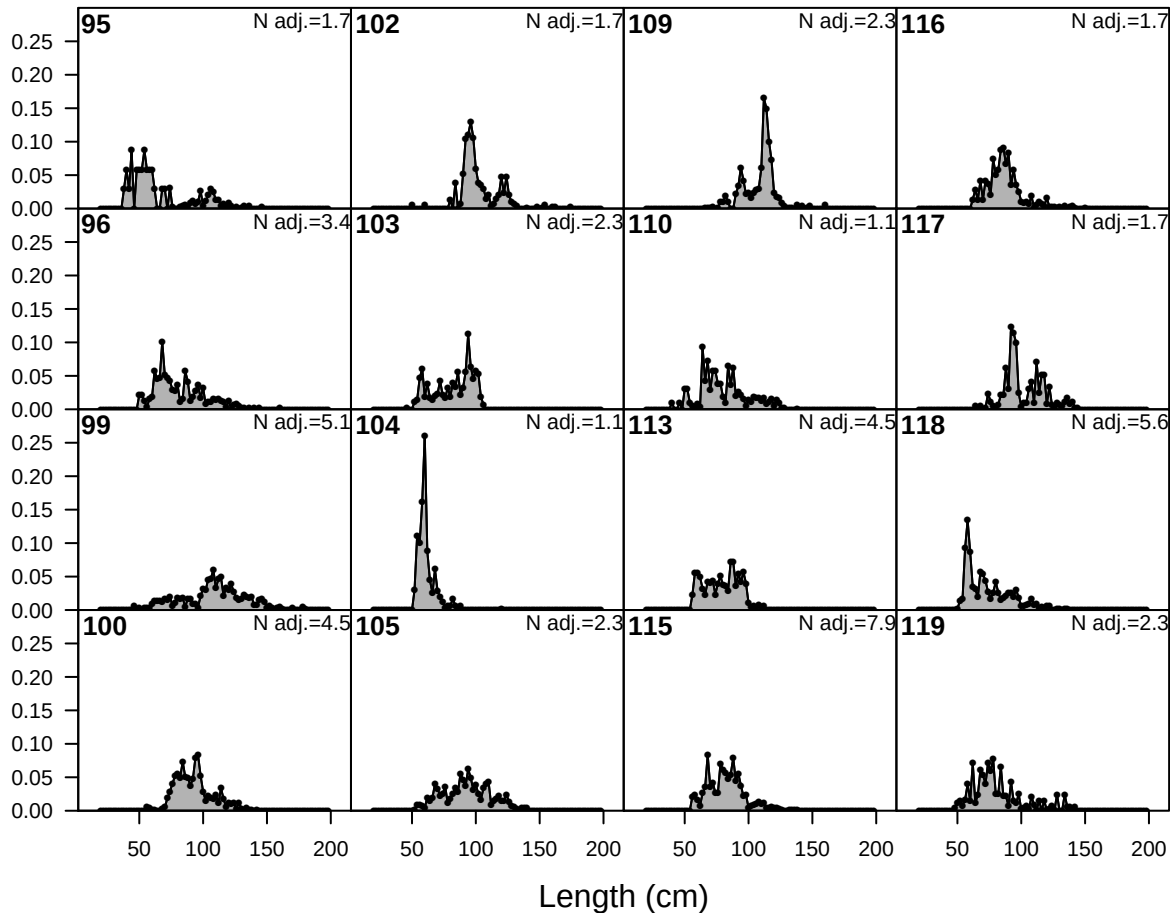


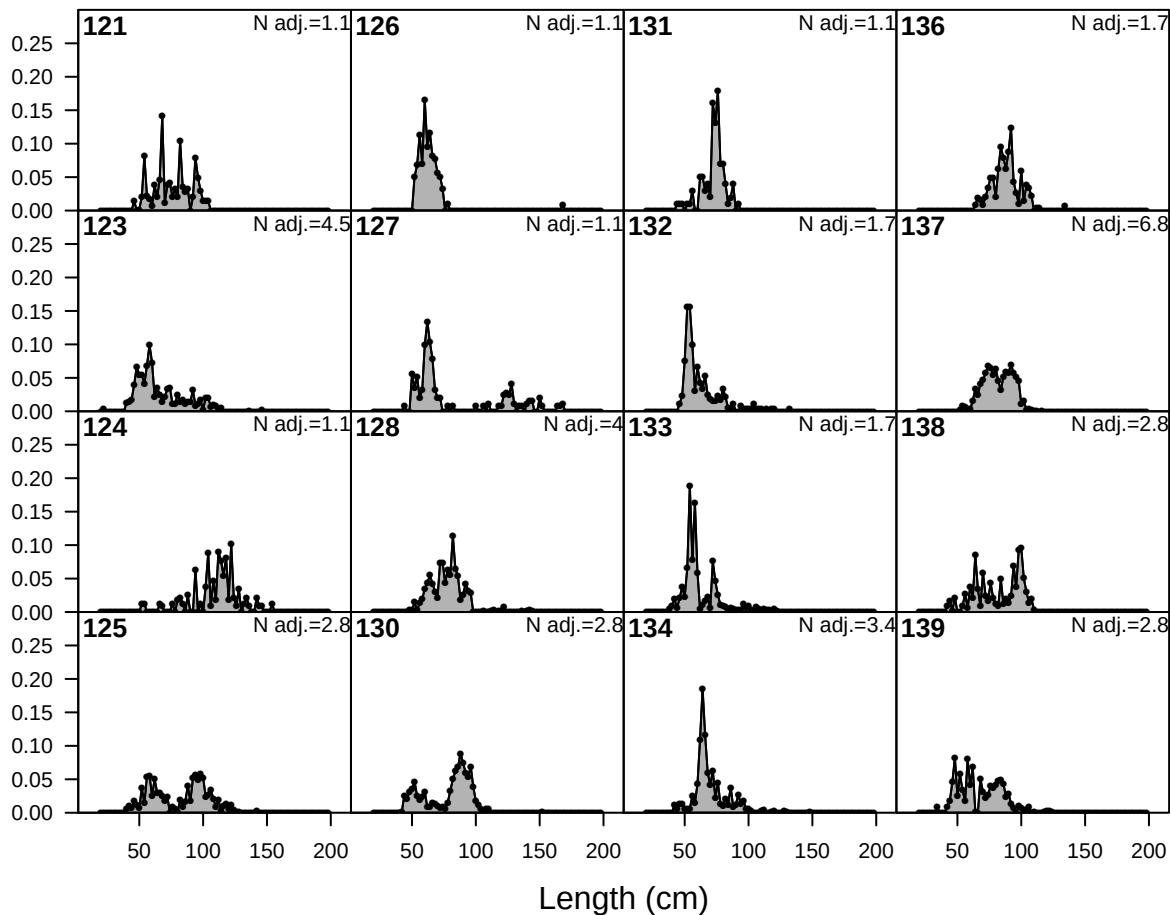
Proportion

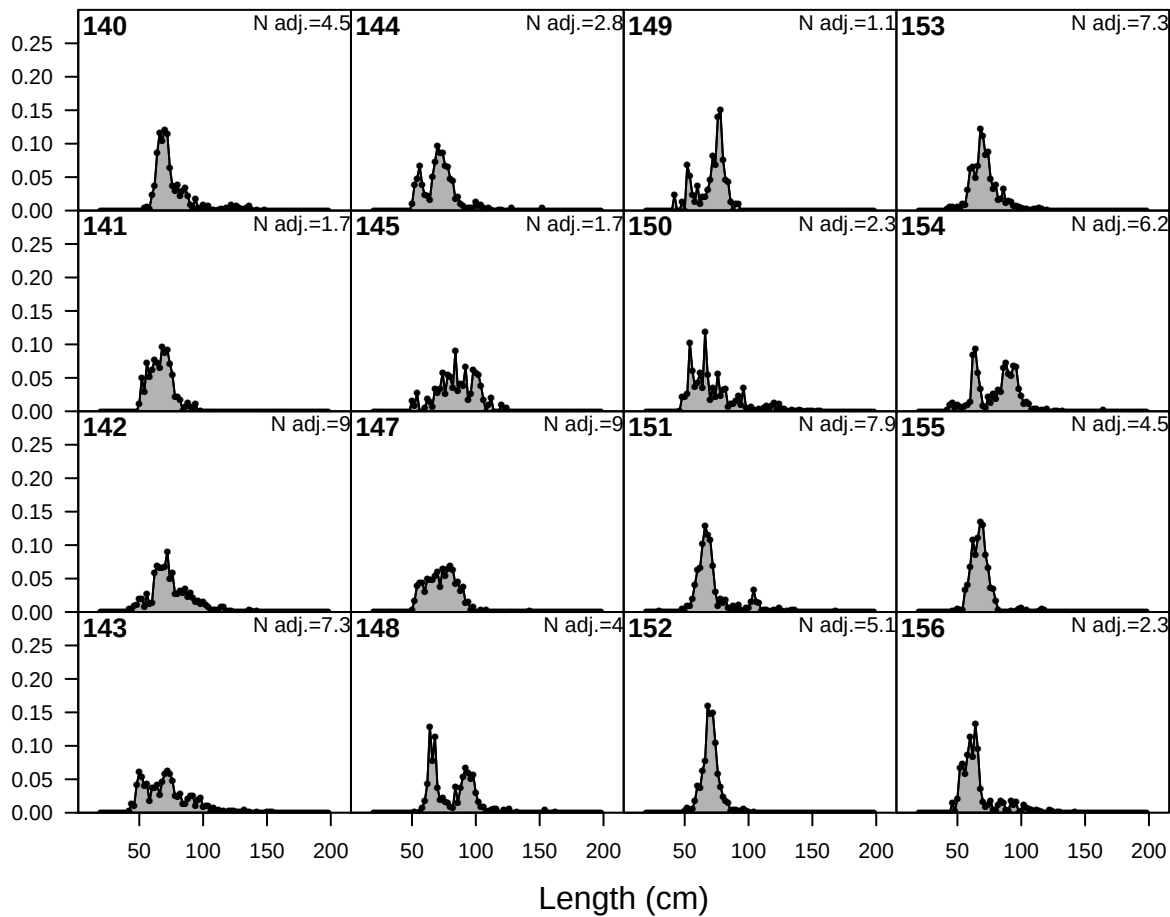


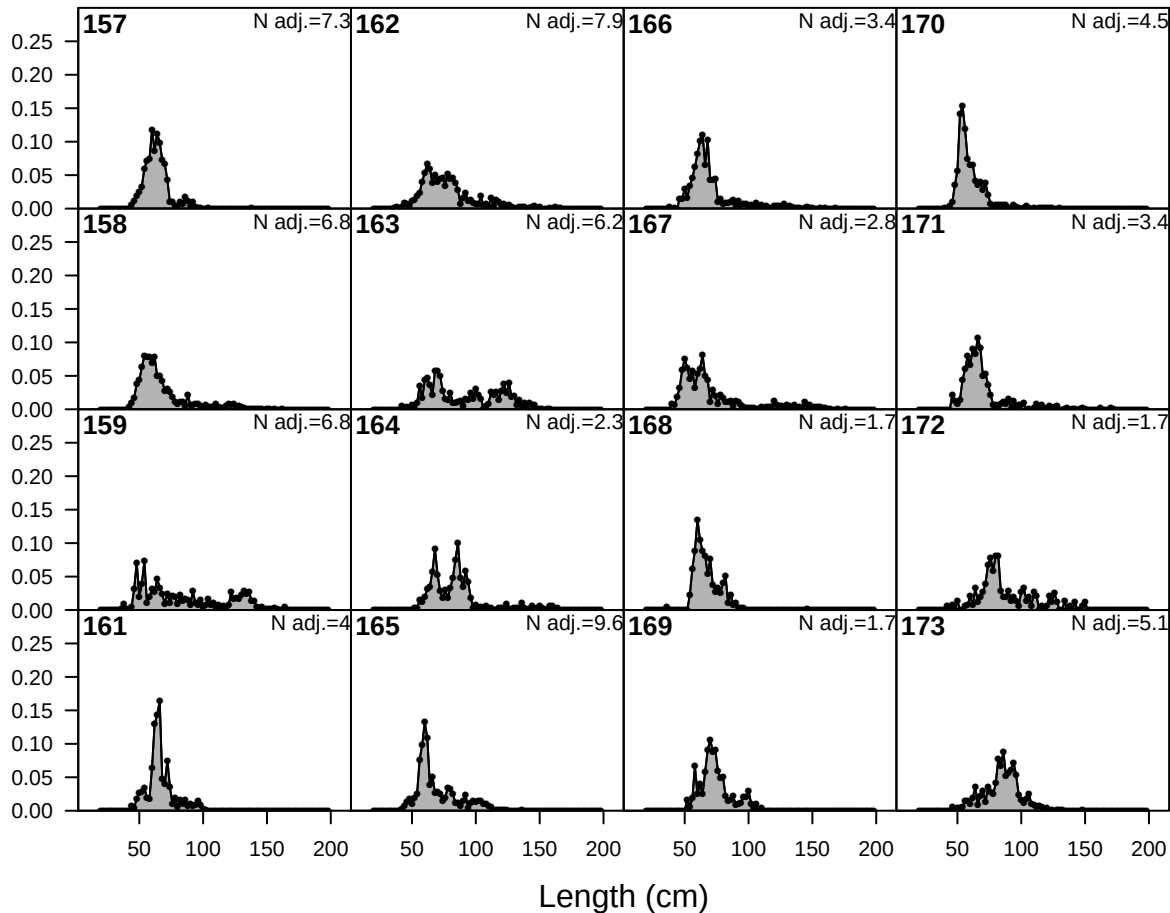
Proportion



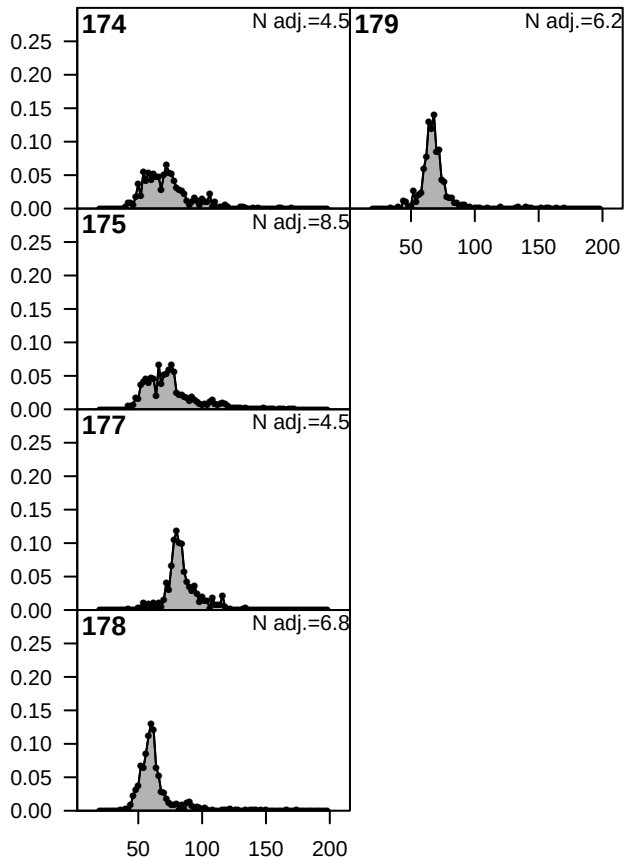




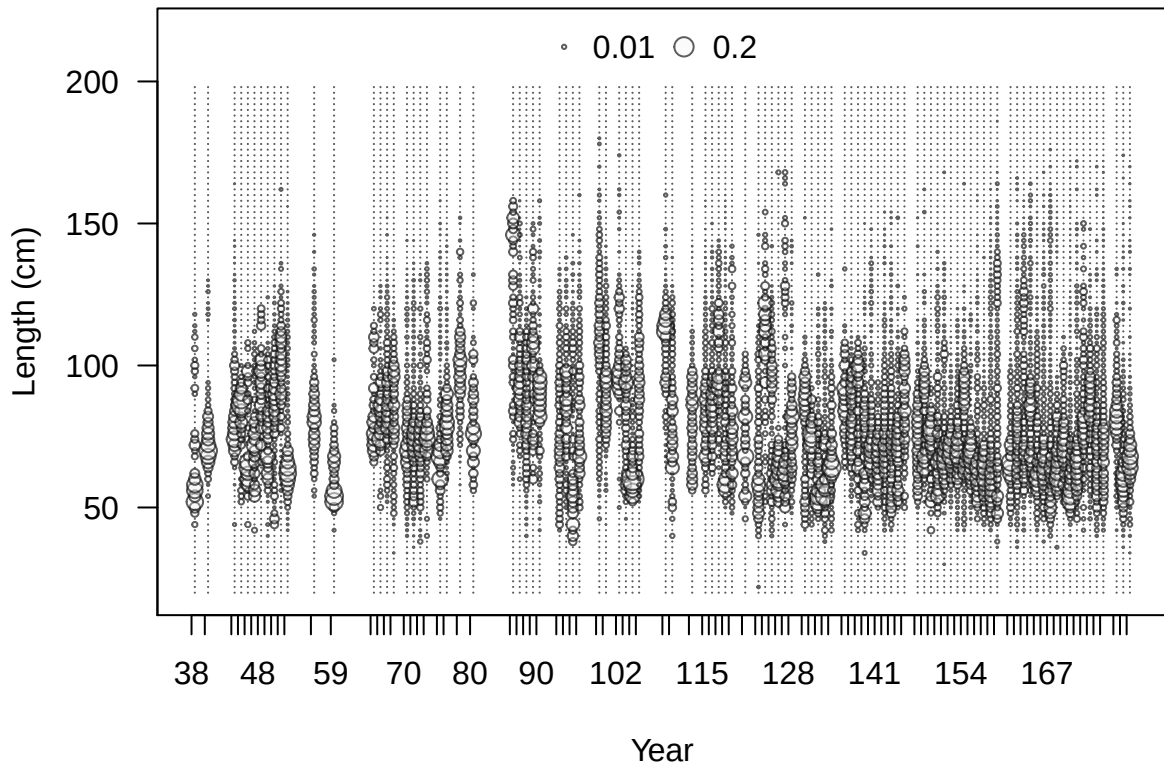




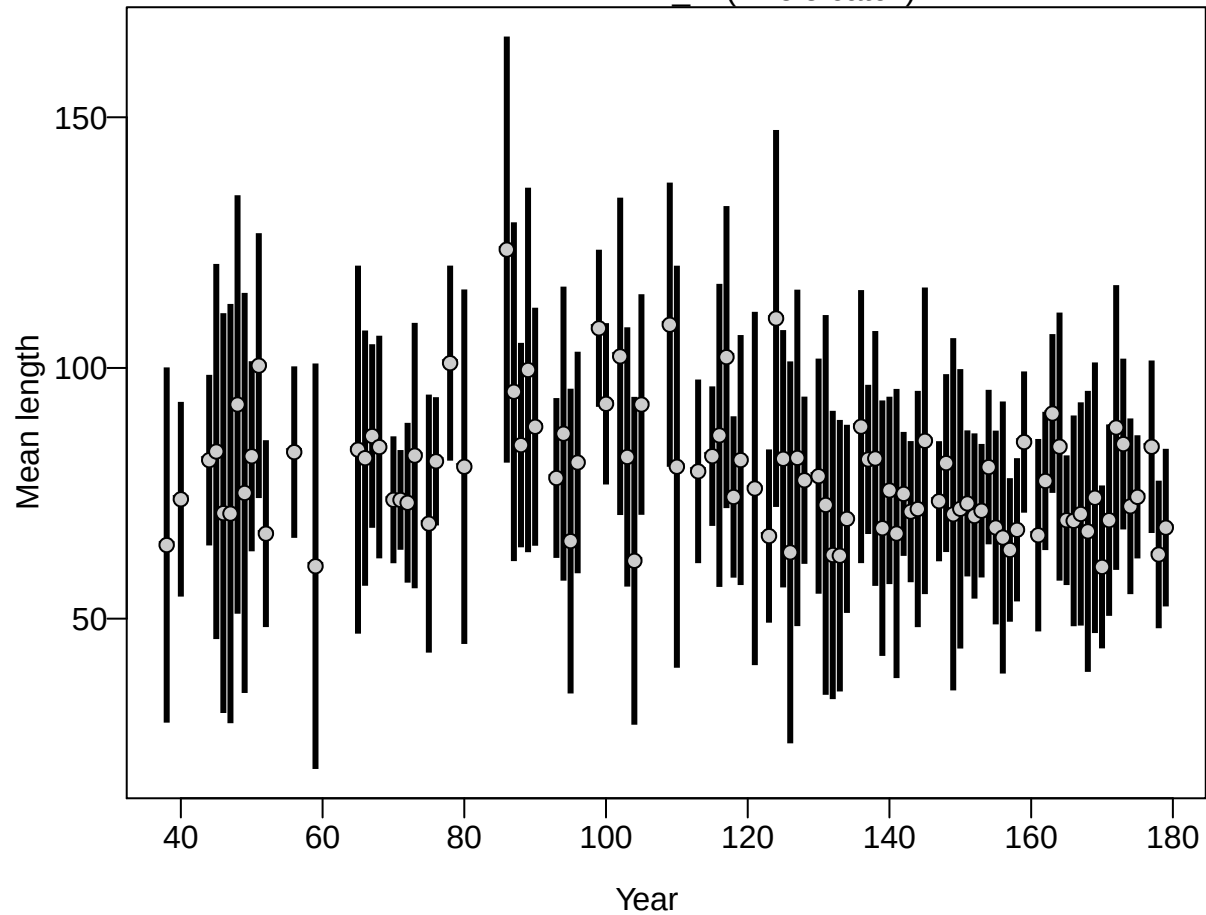
Proportion

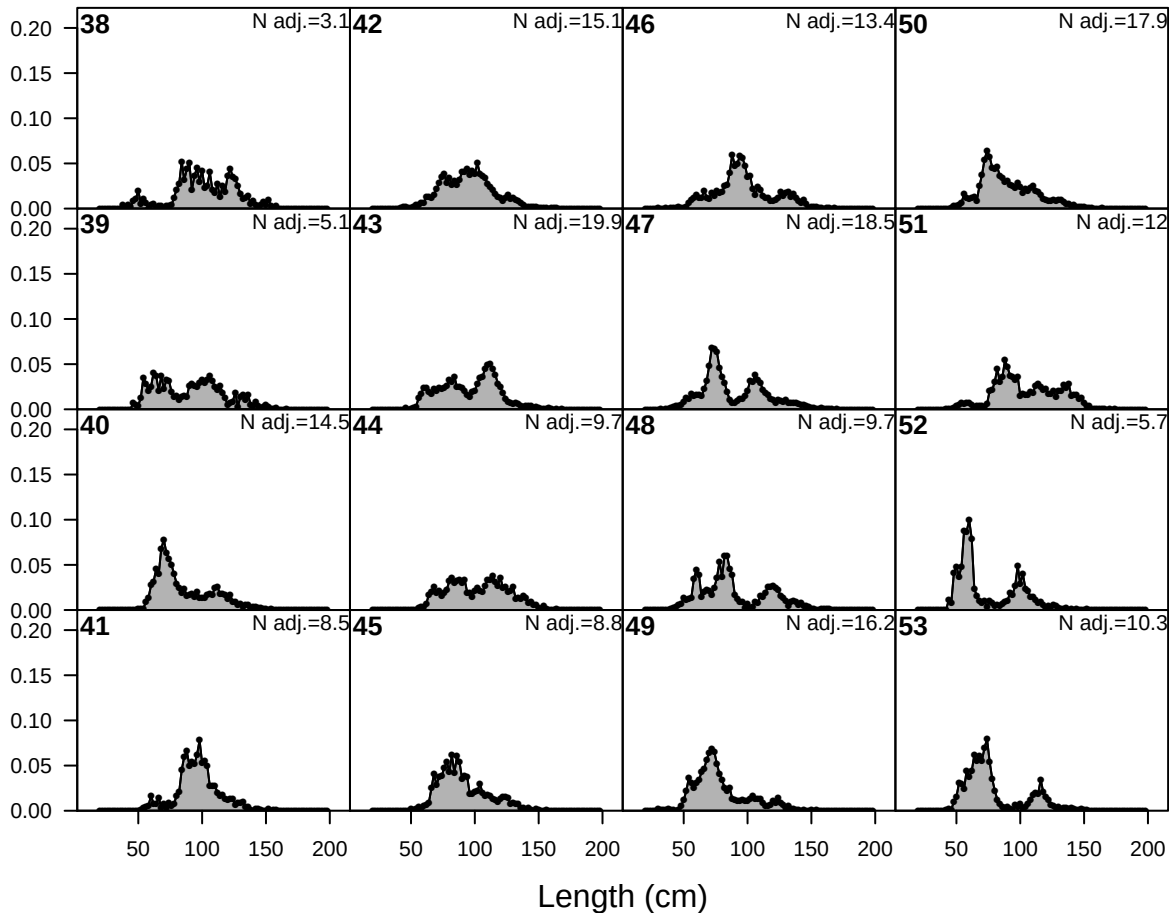


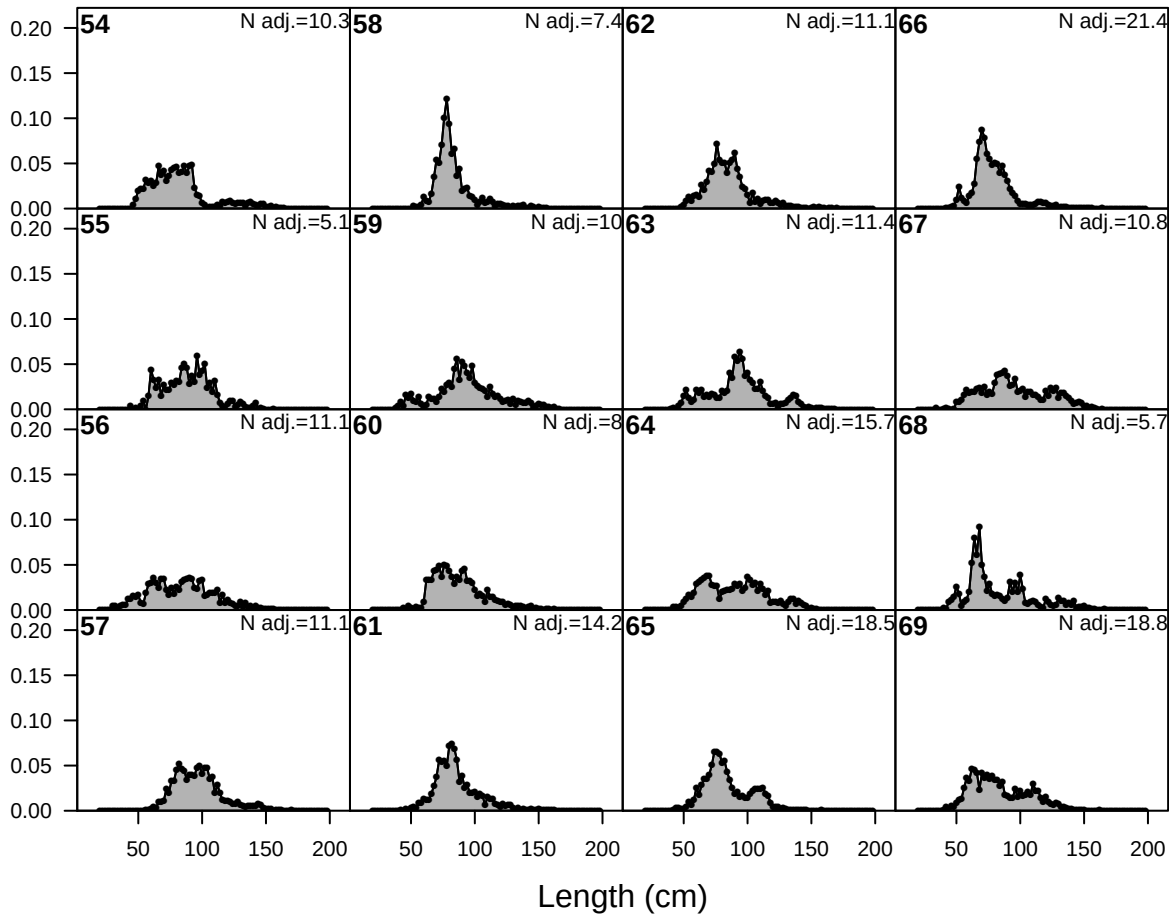
Length (cm)

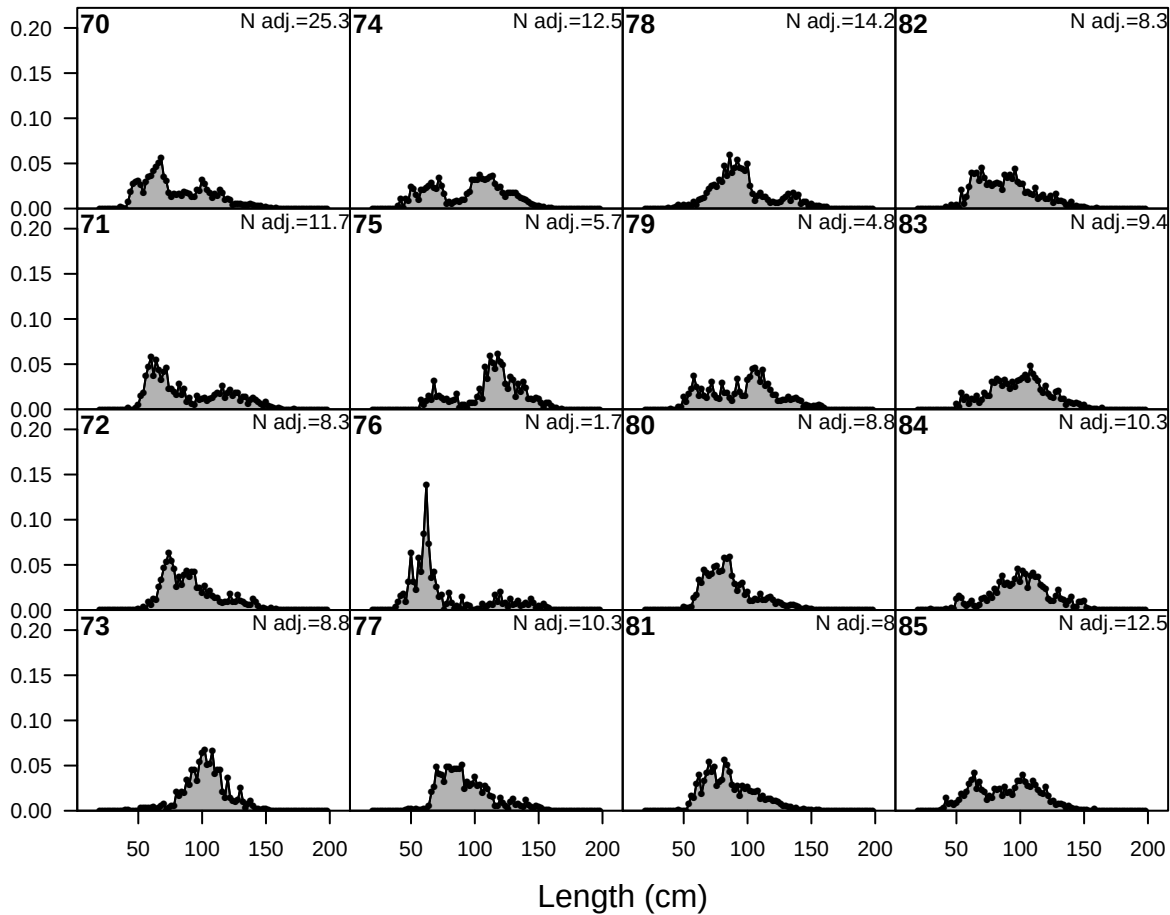


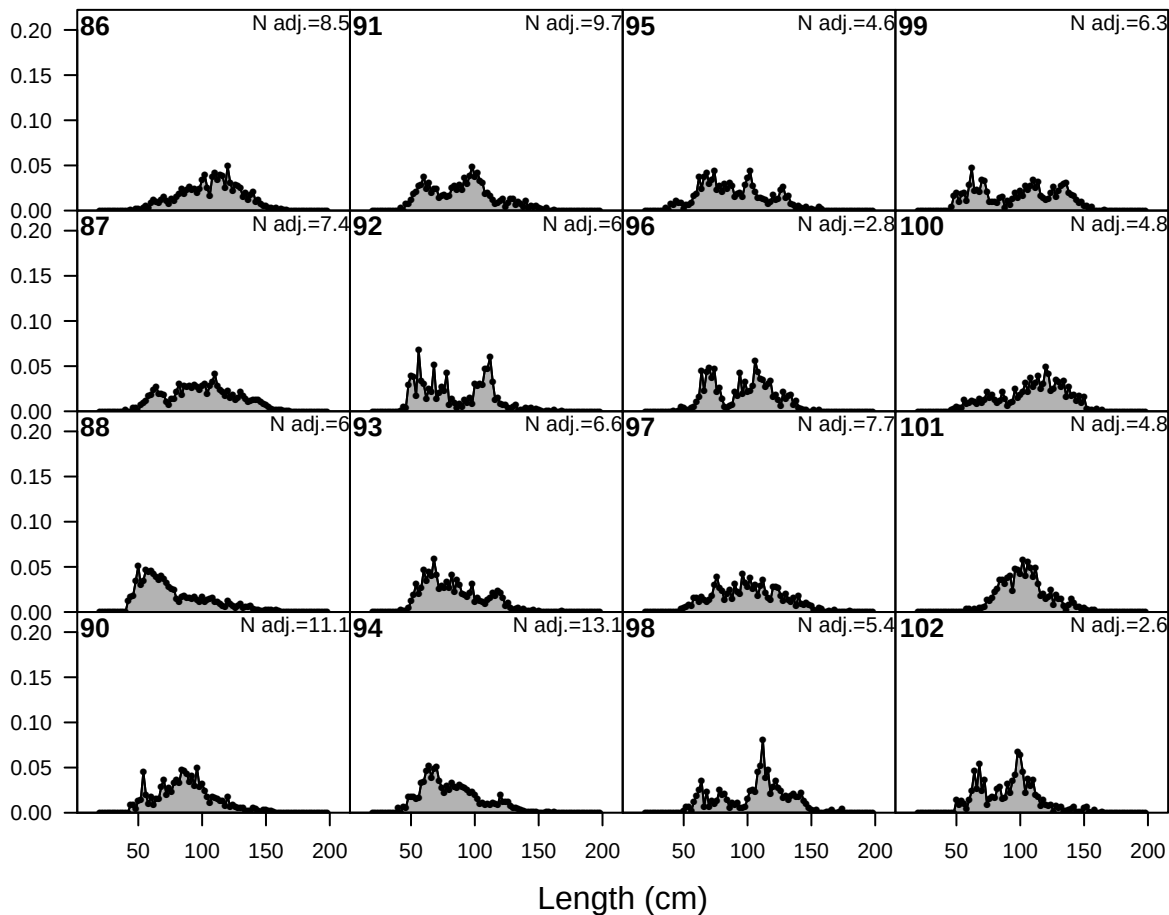
F17-DEL_M (whole catch)

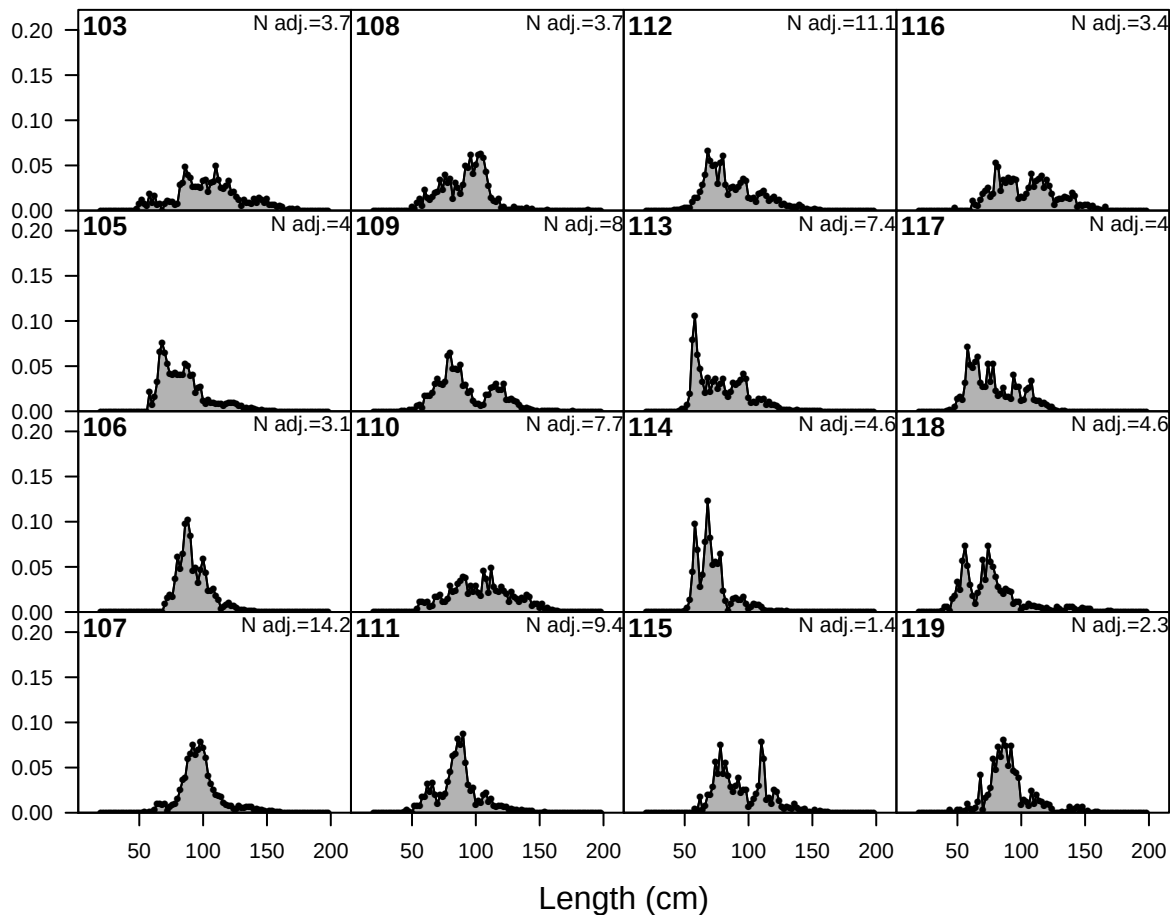


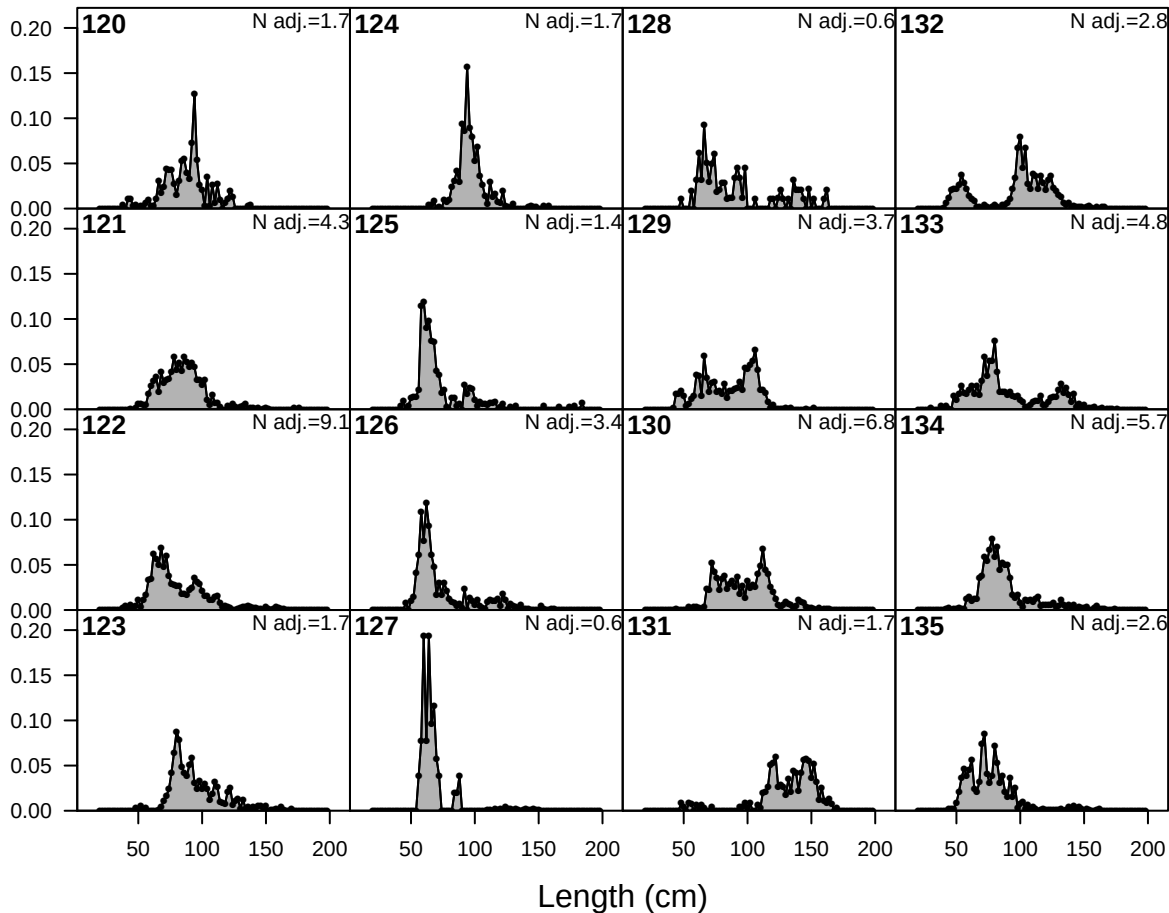




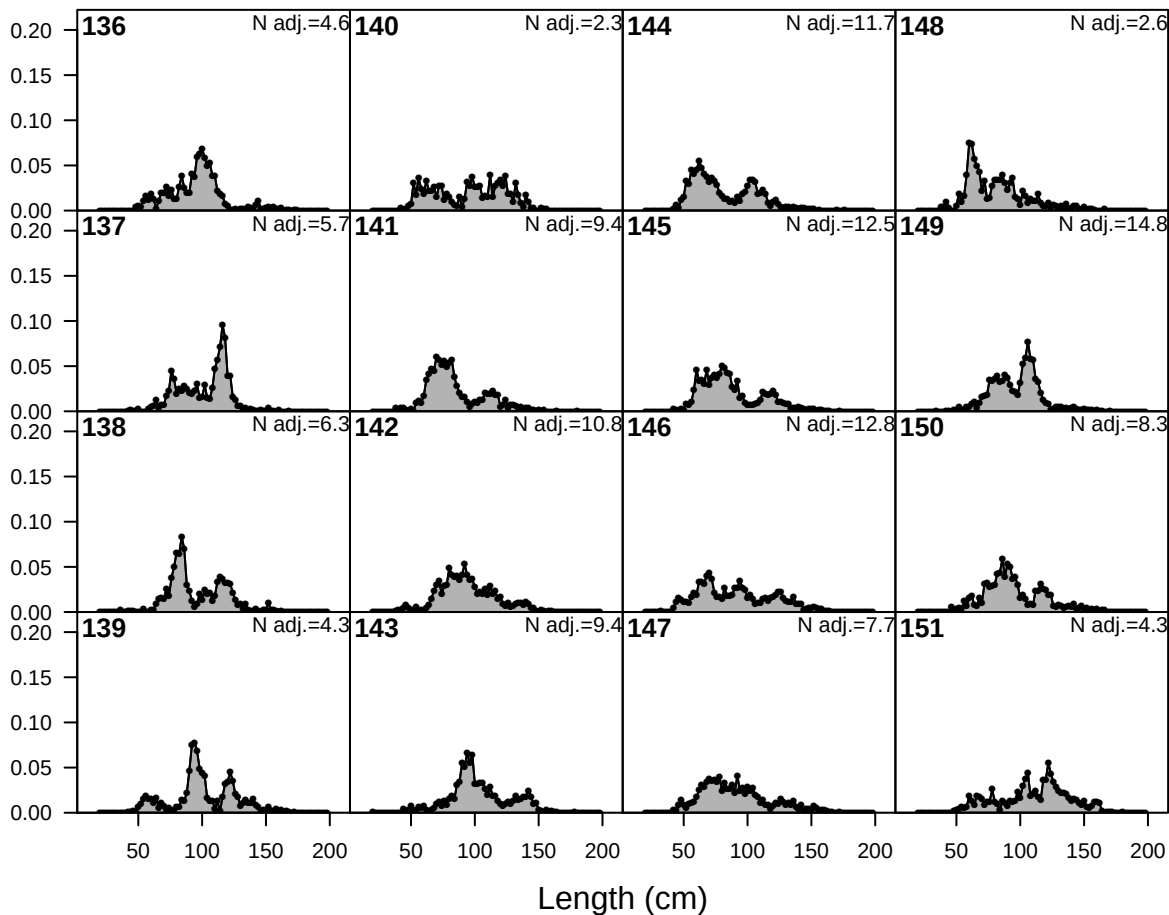


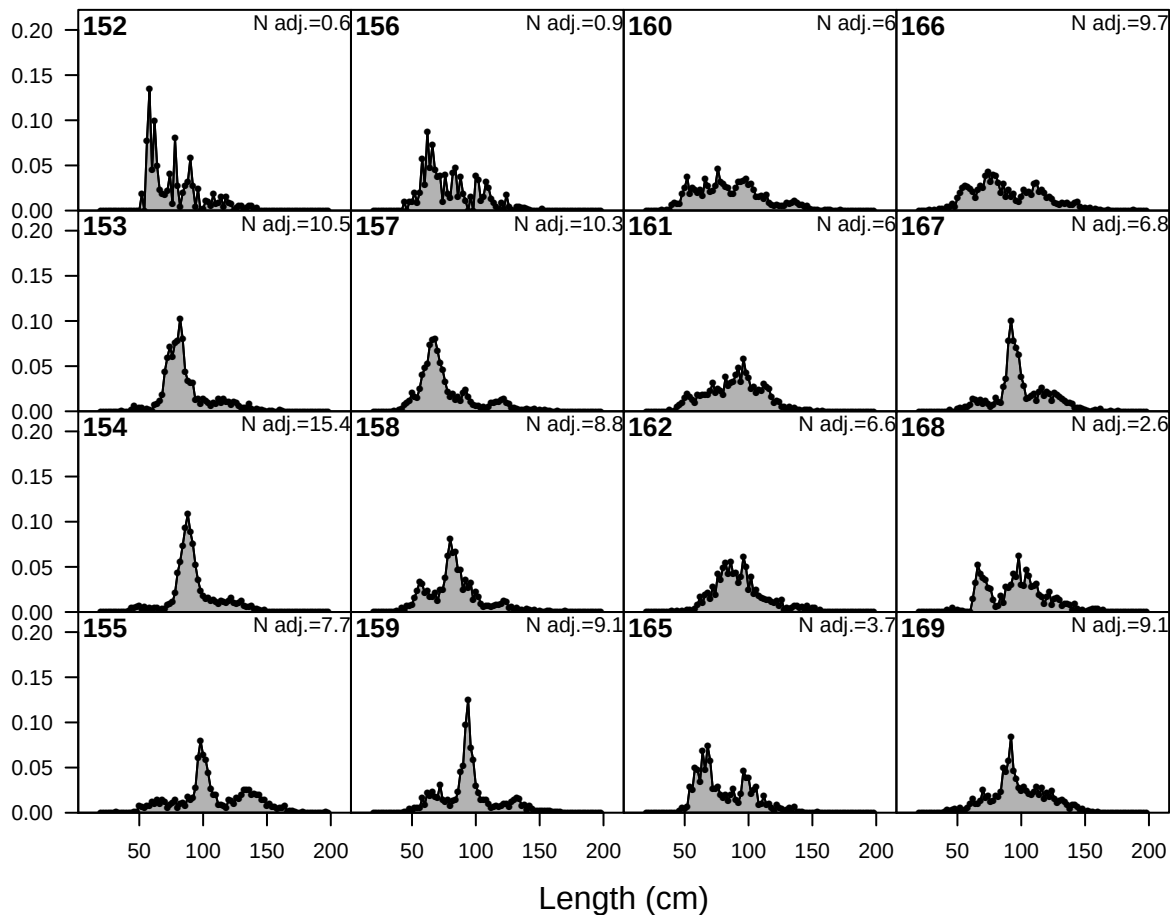




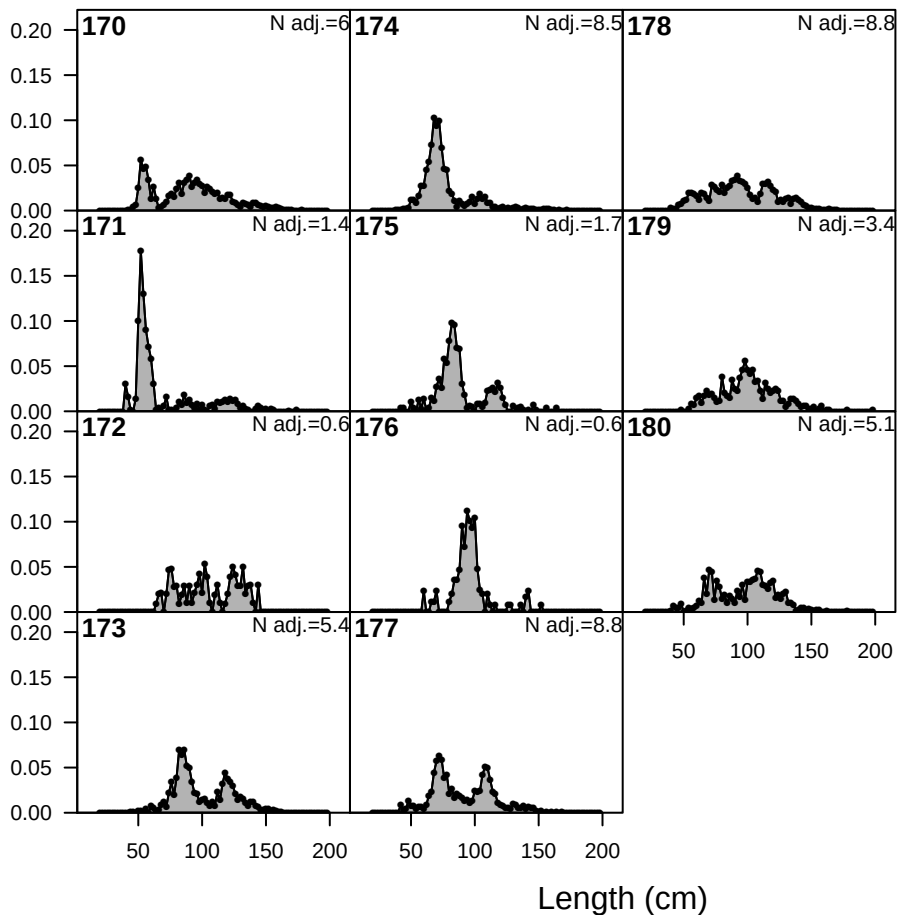


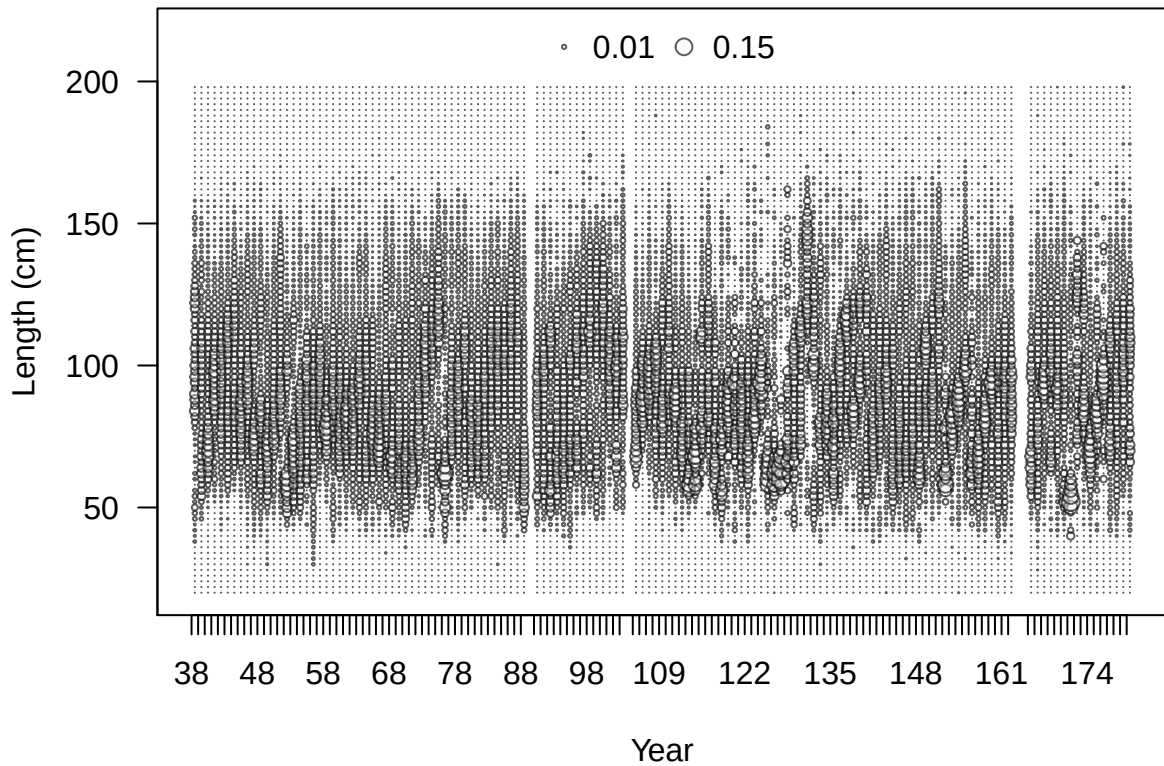
Proportion



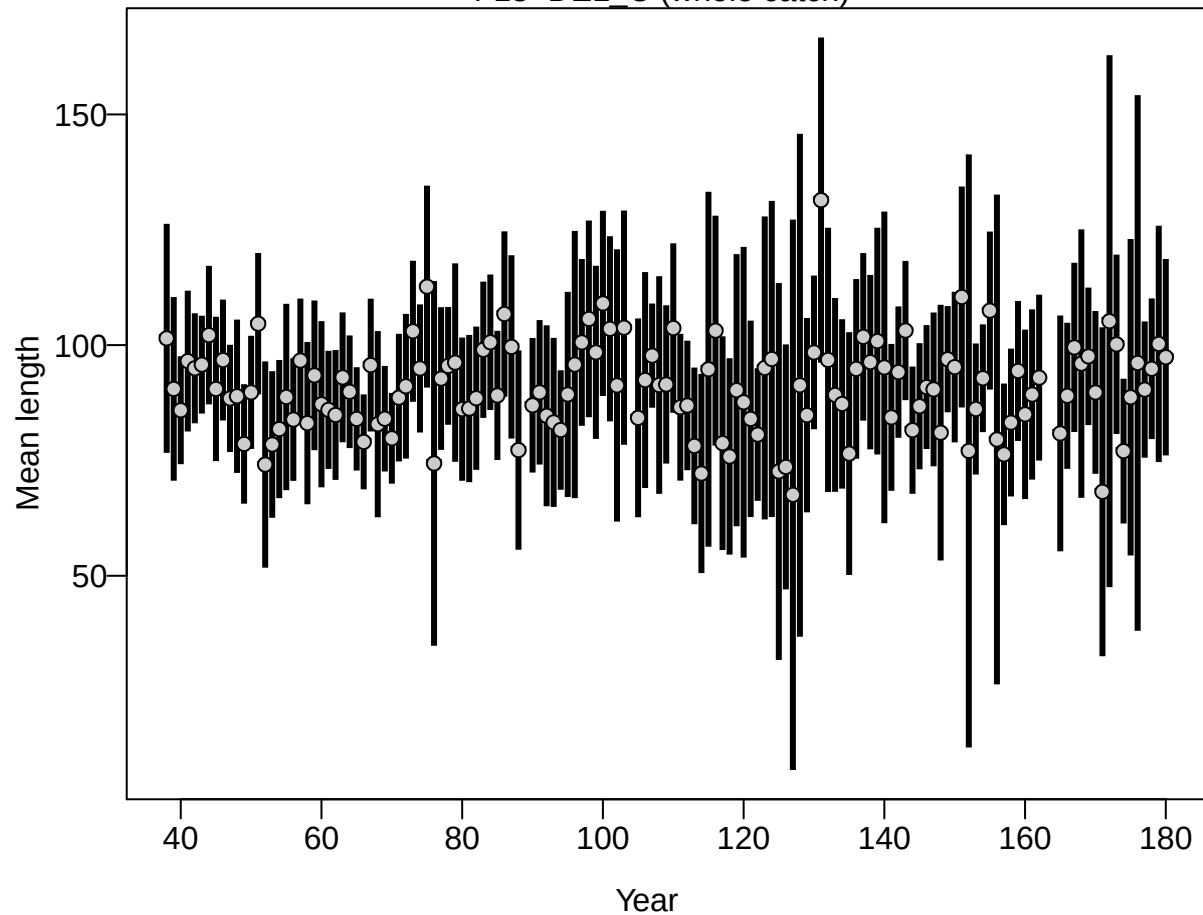


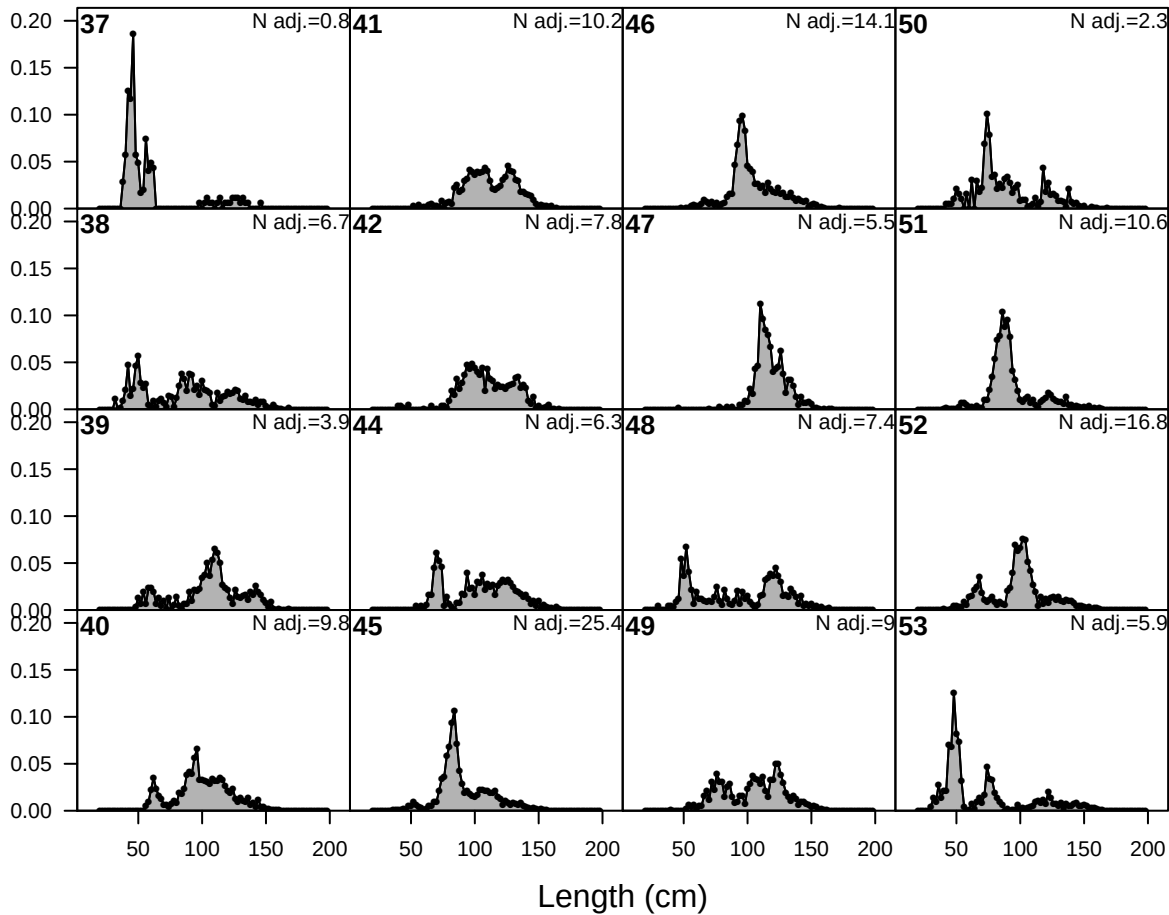
Proportion



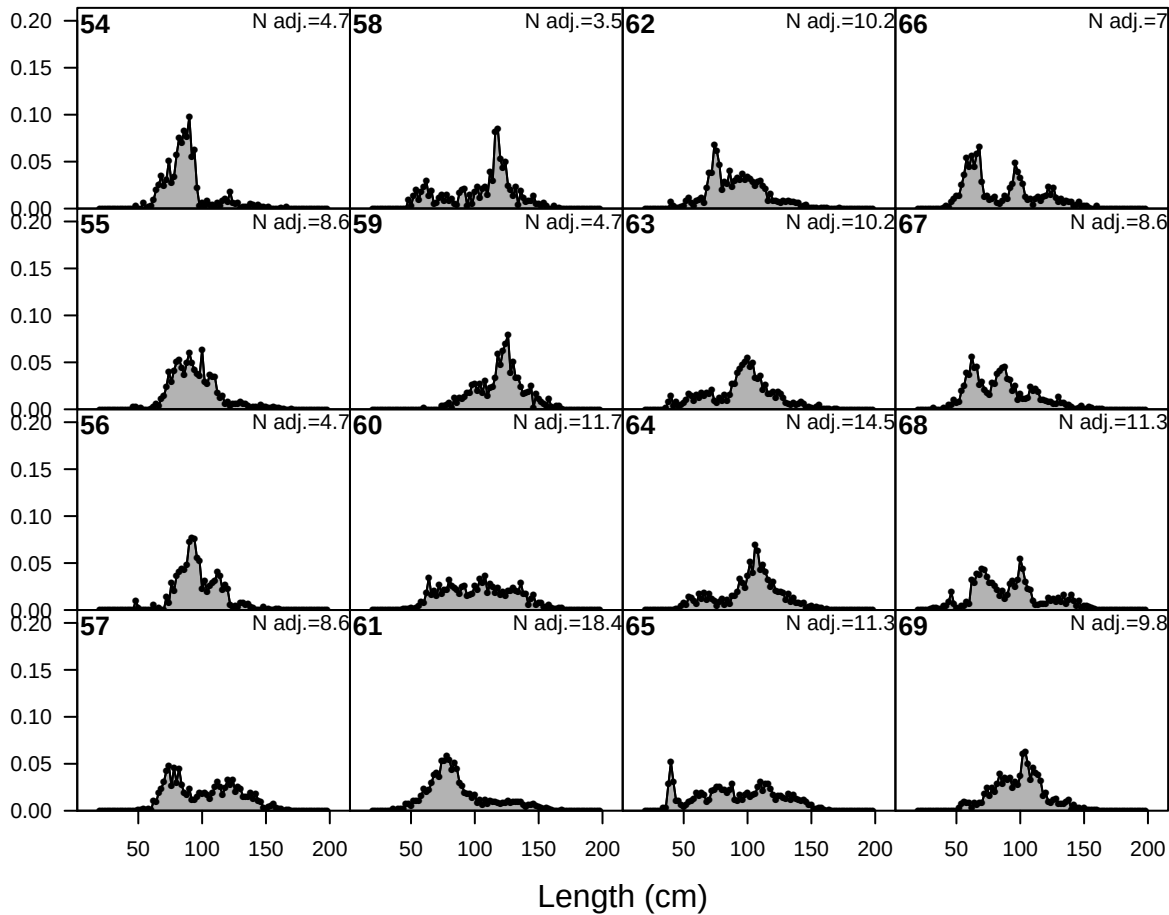


F18-DEL_C (whole catch)

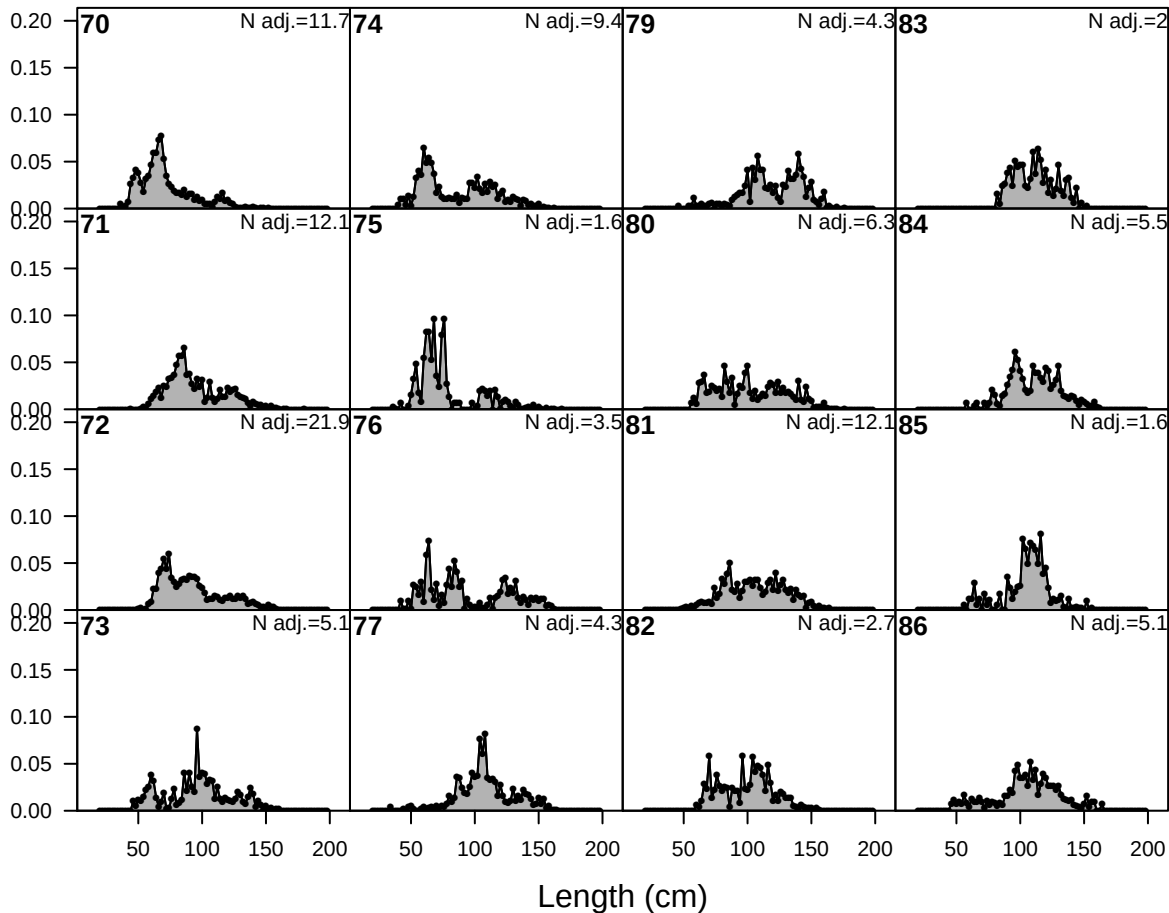


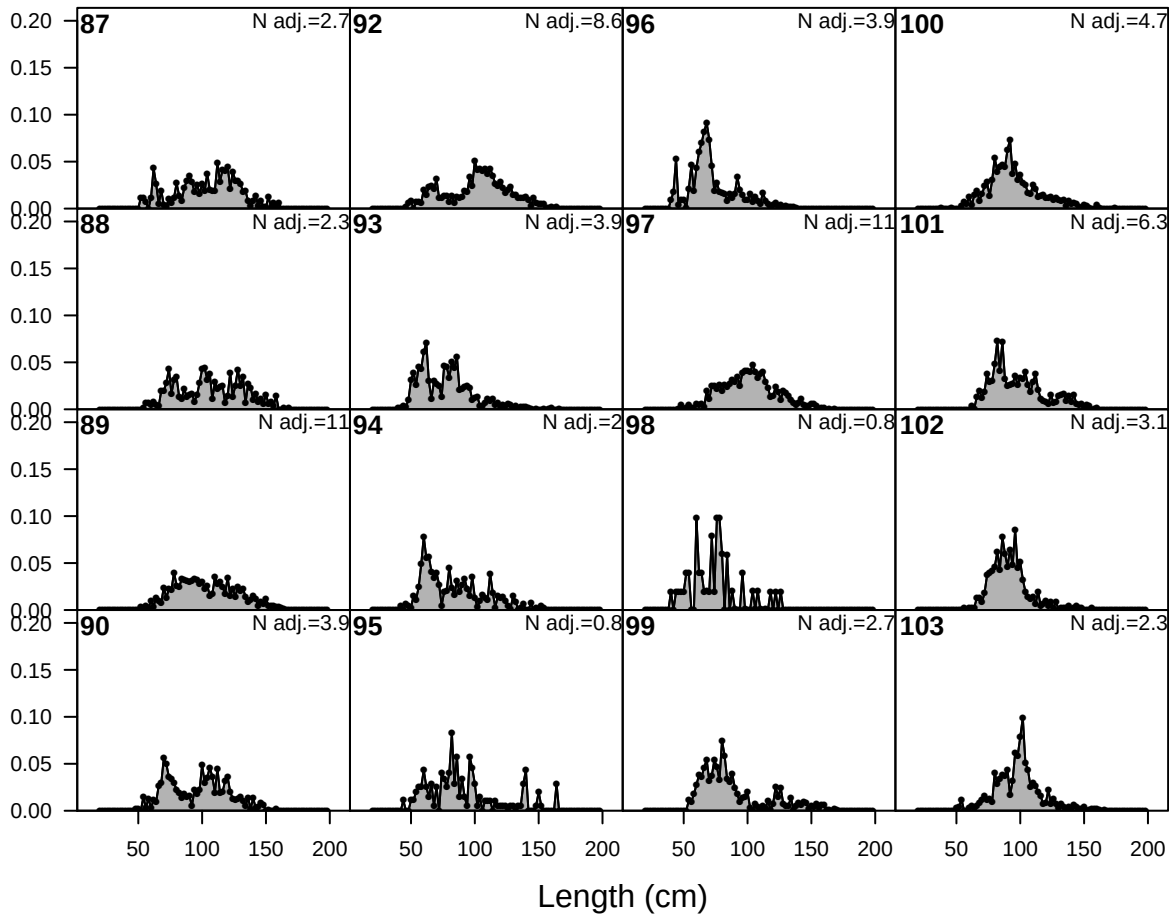


Proportion

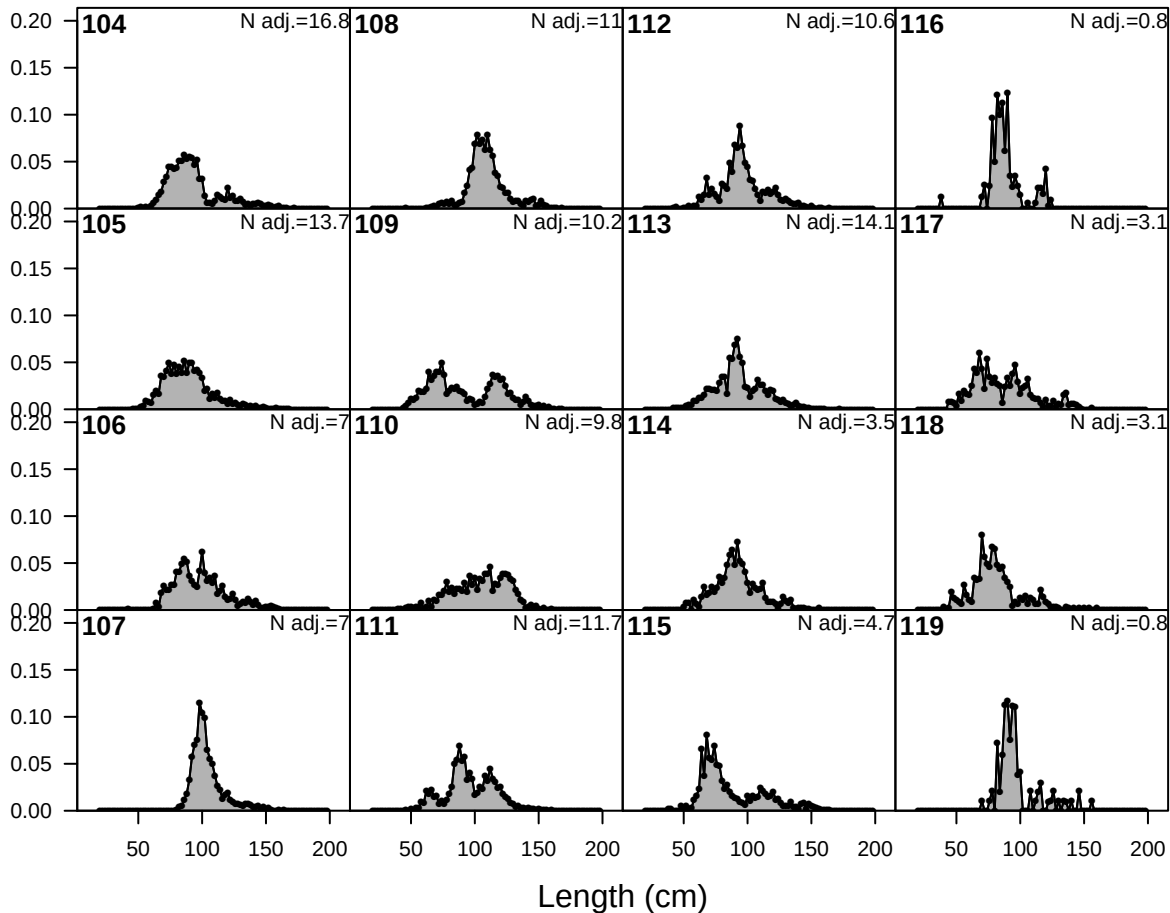


Proportion

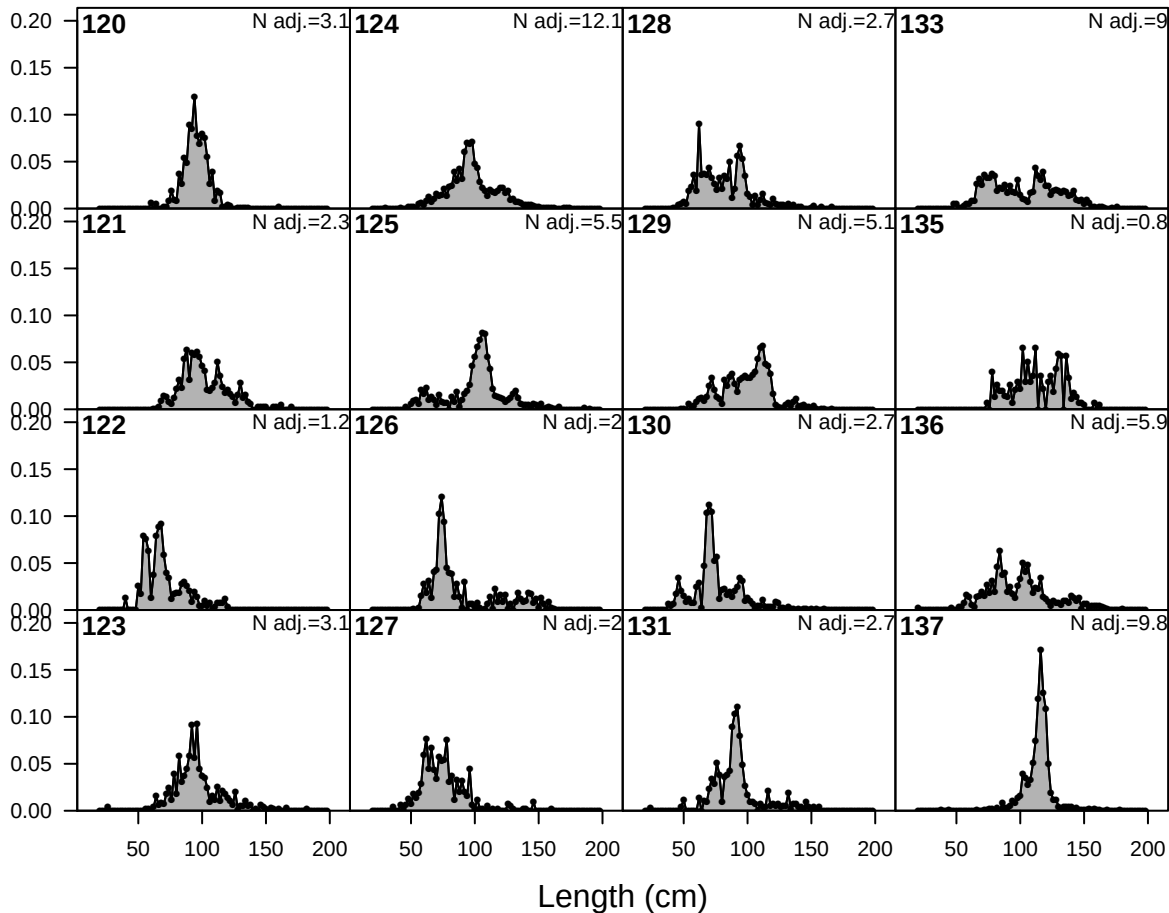


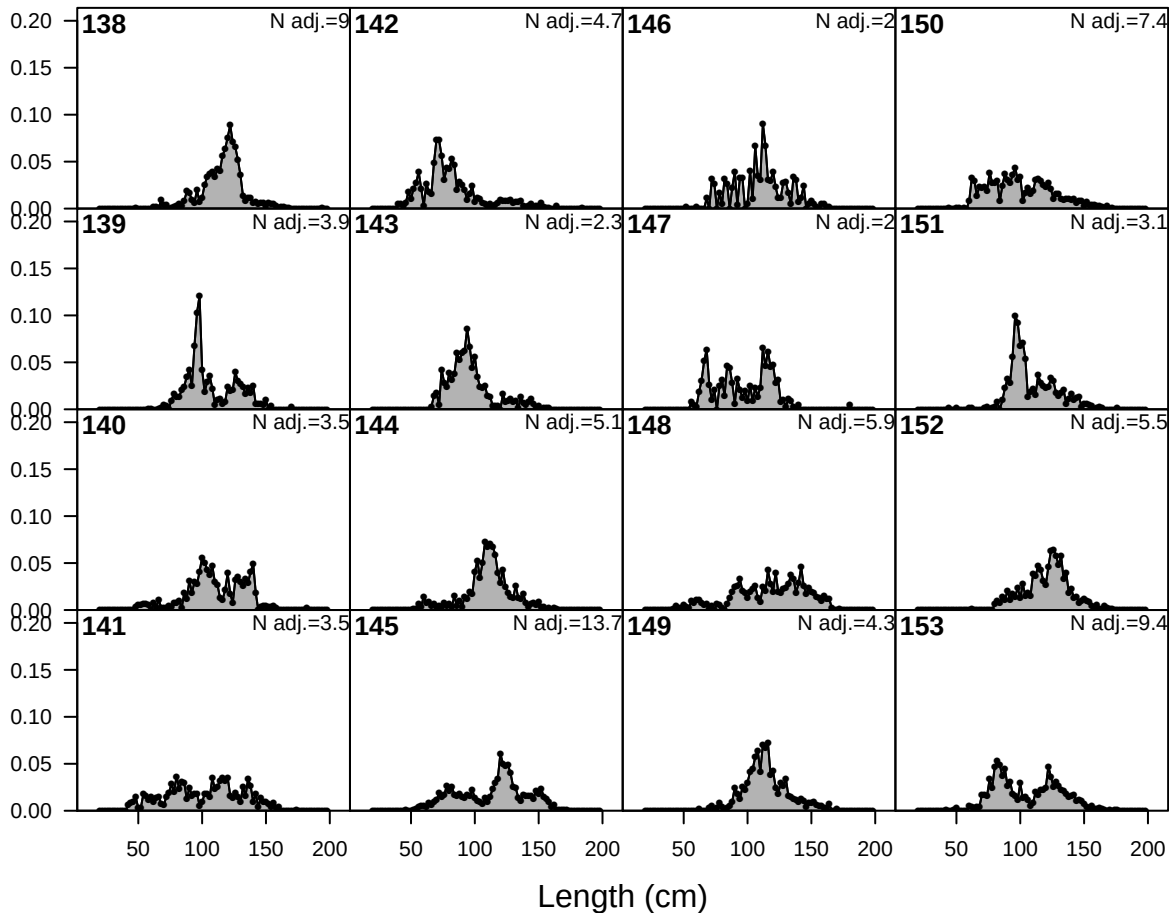


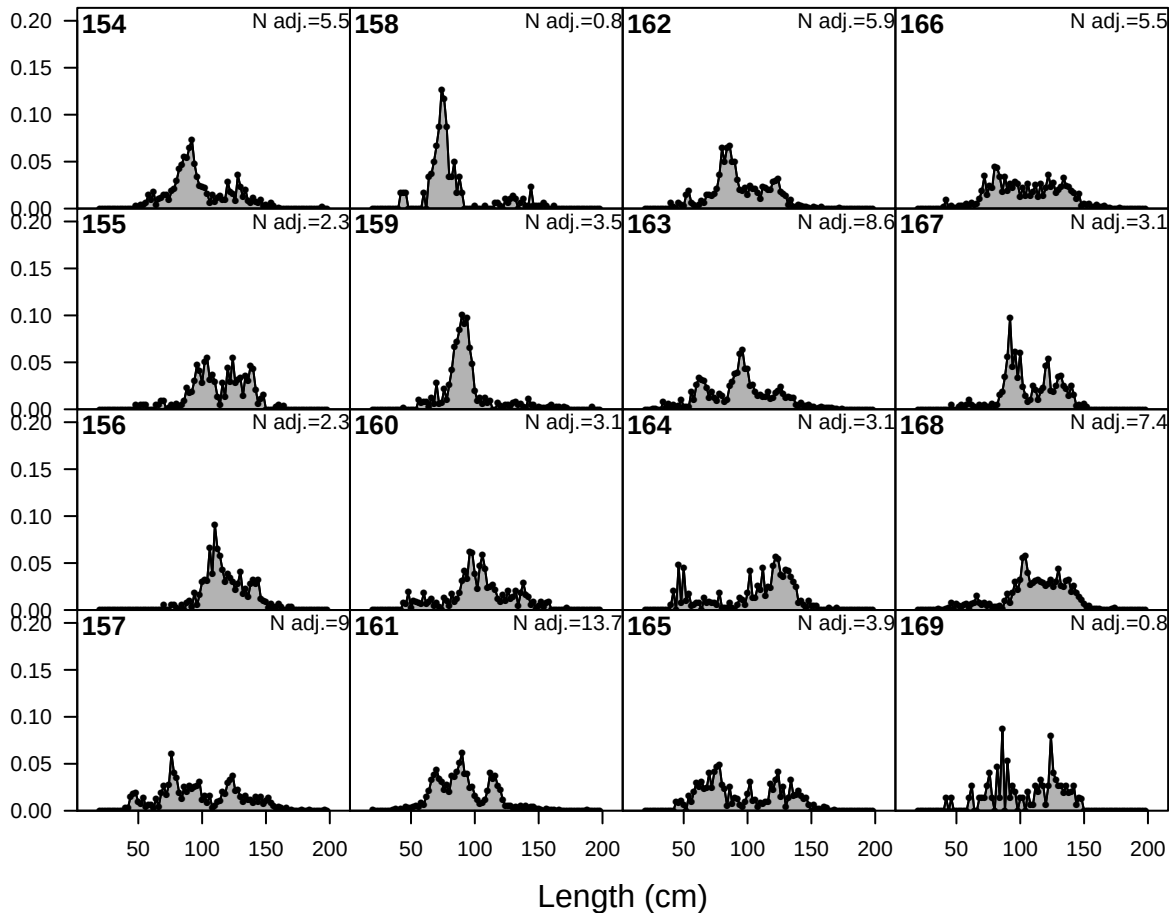
Proportion



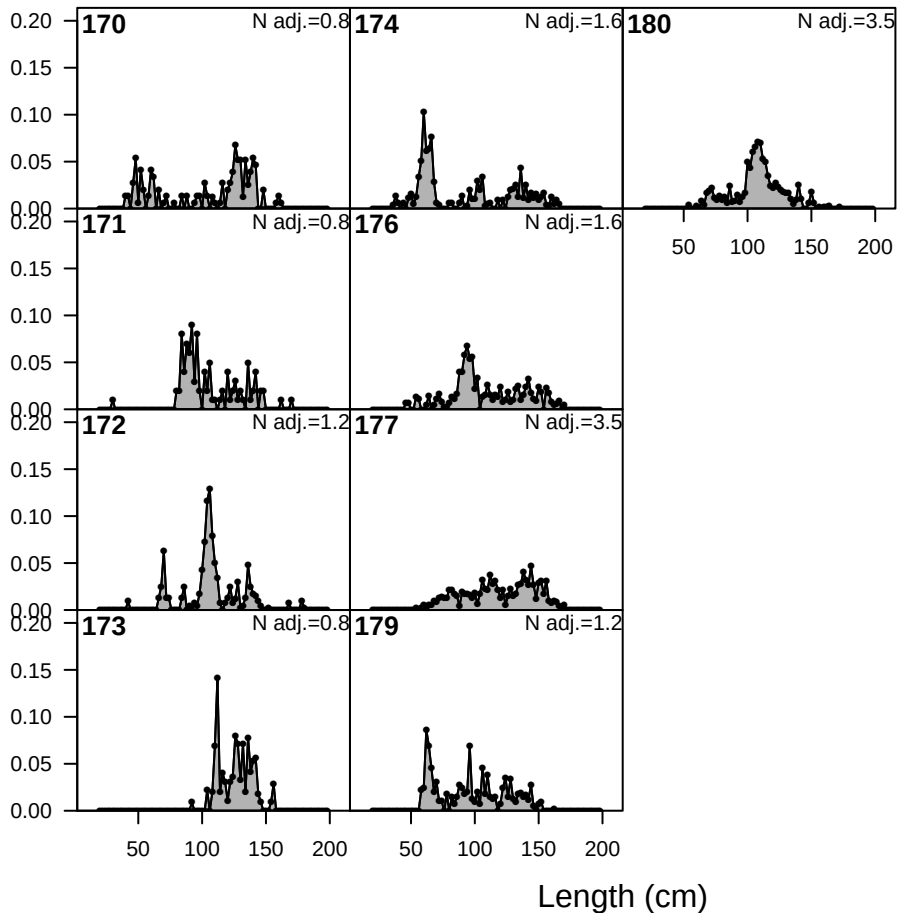
Proportion

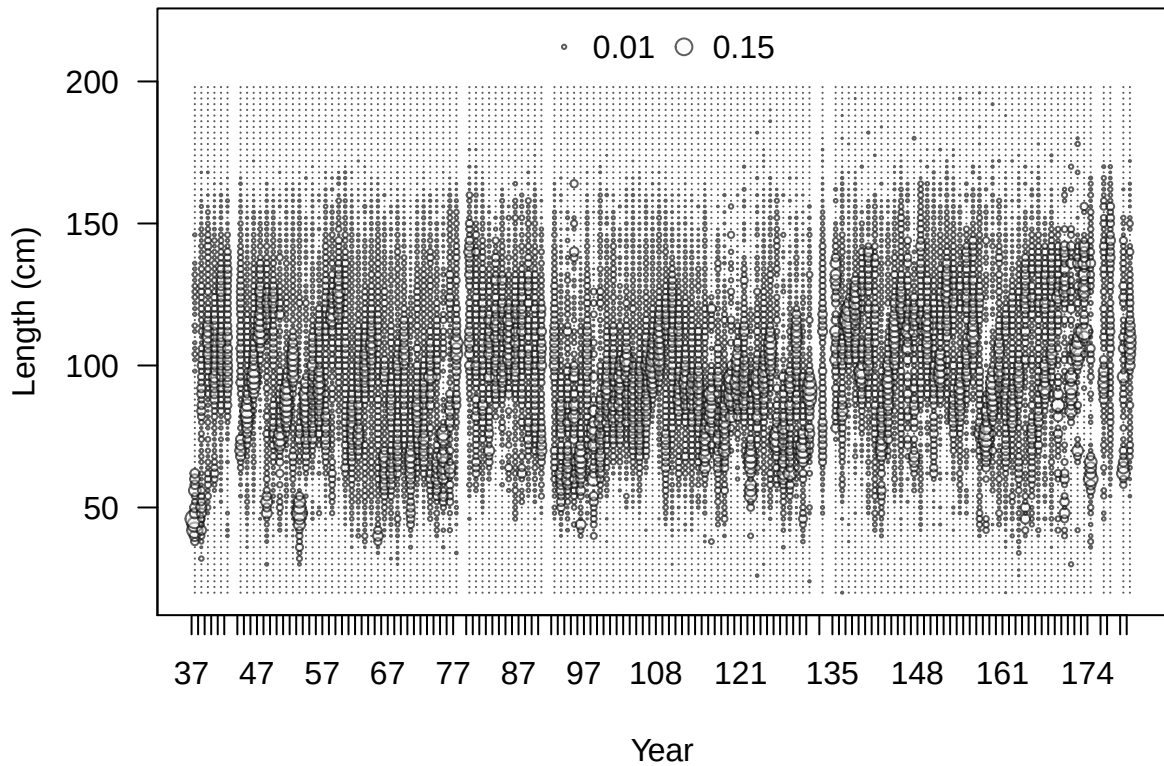




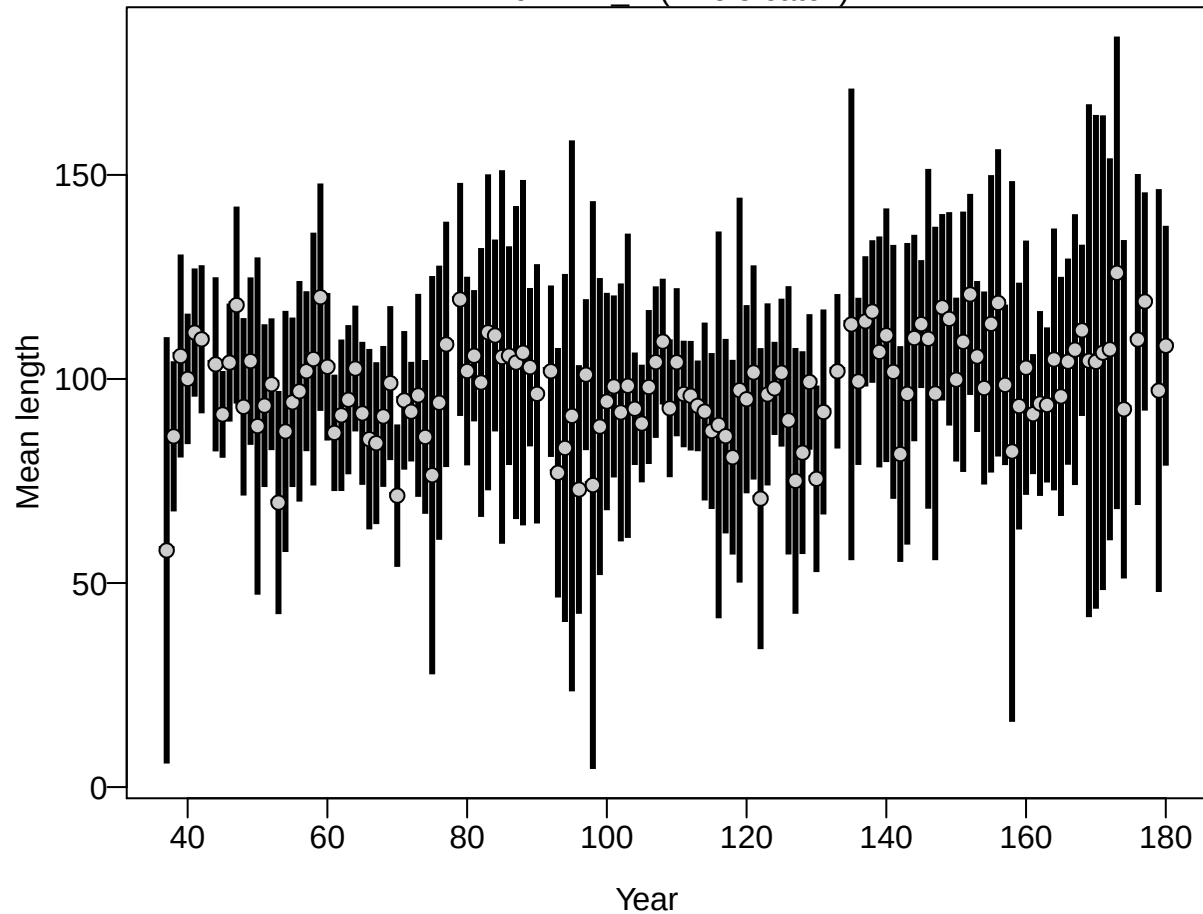


Proportion

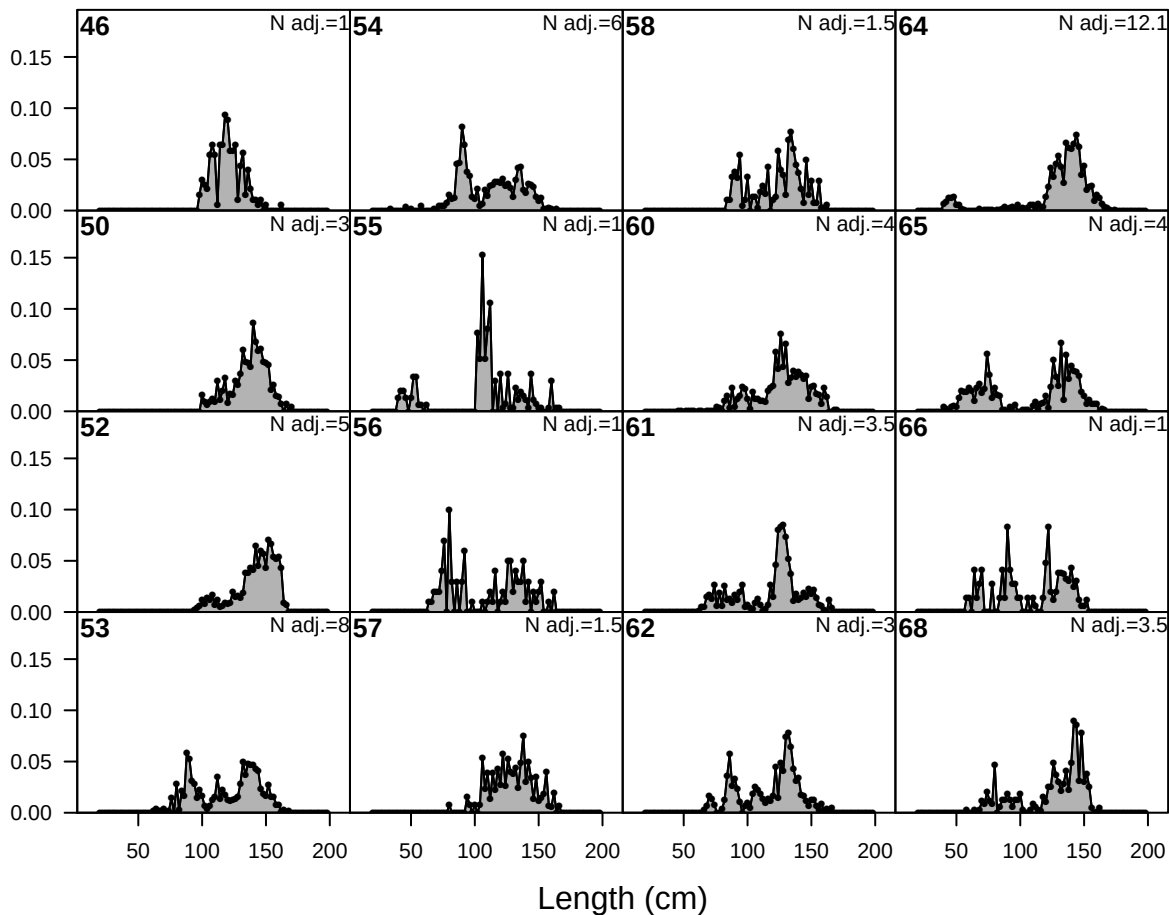


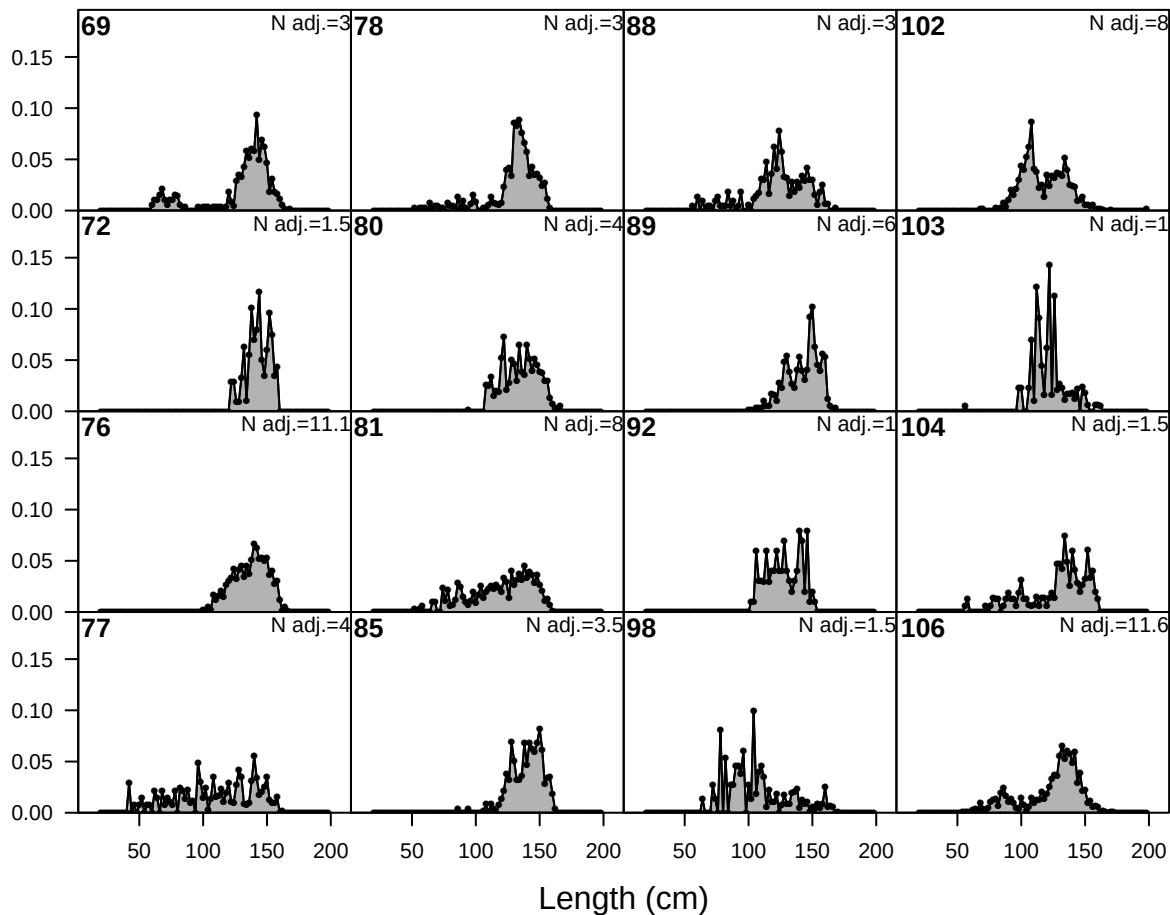


F19-DEL_P (whole catch)

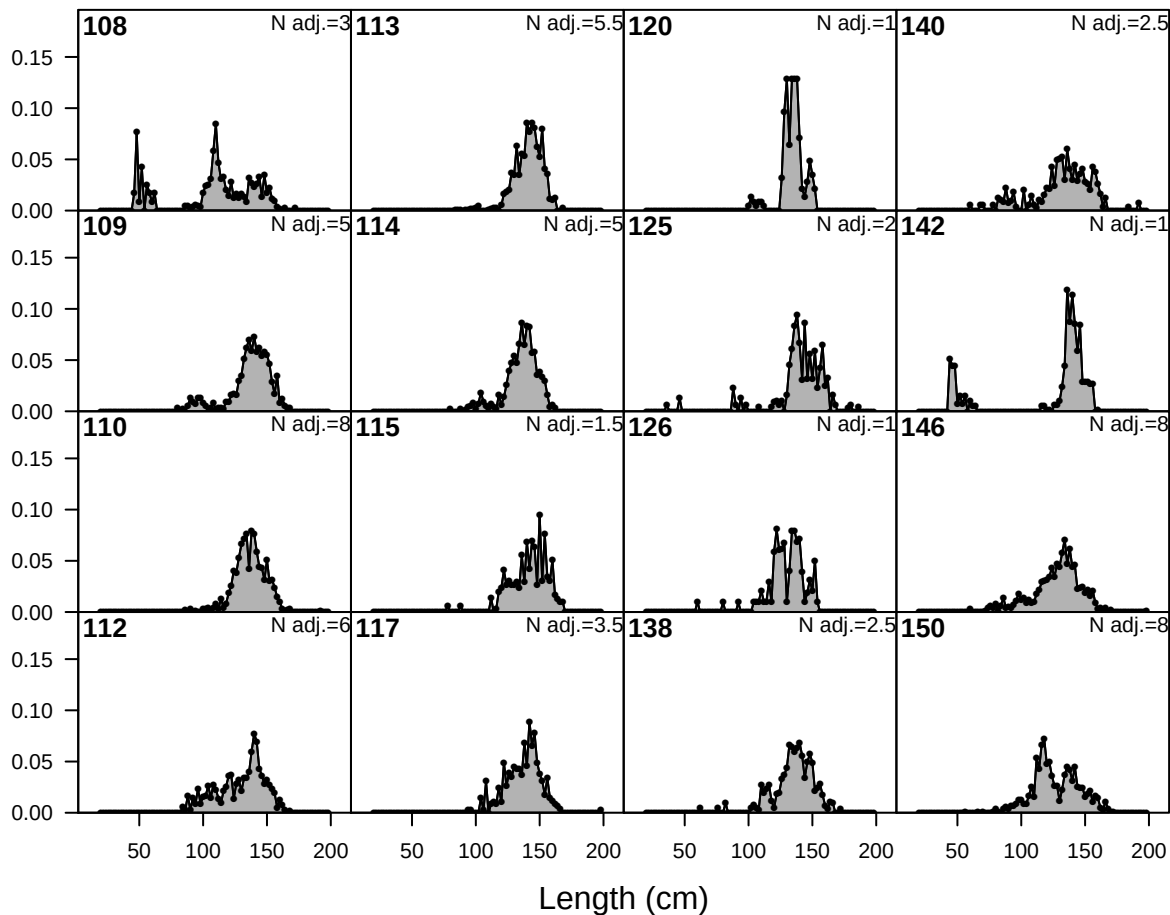


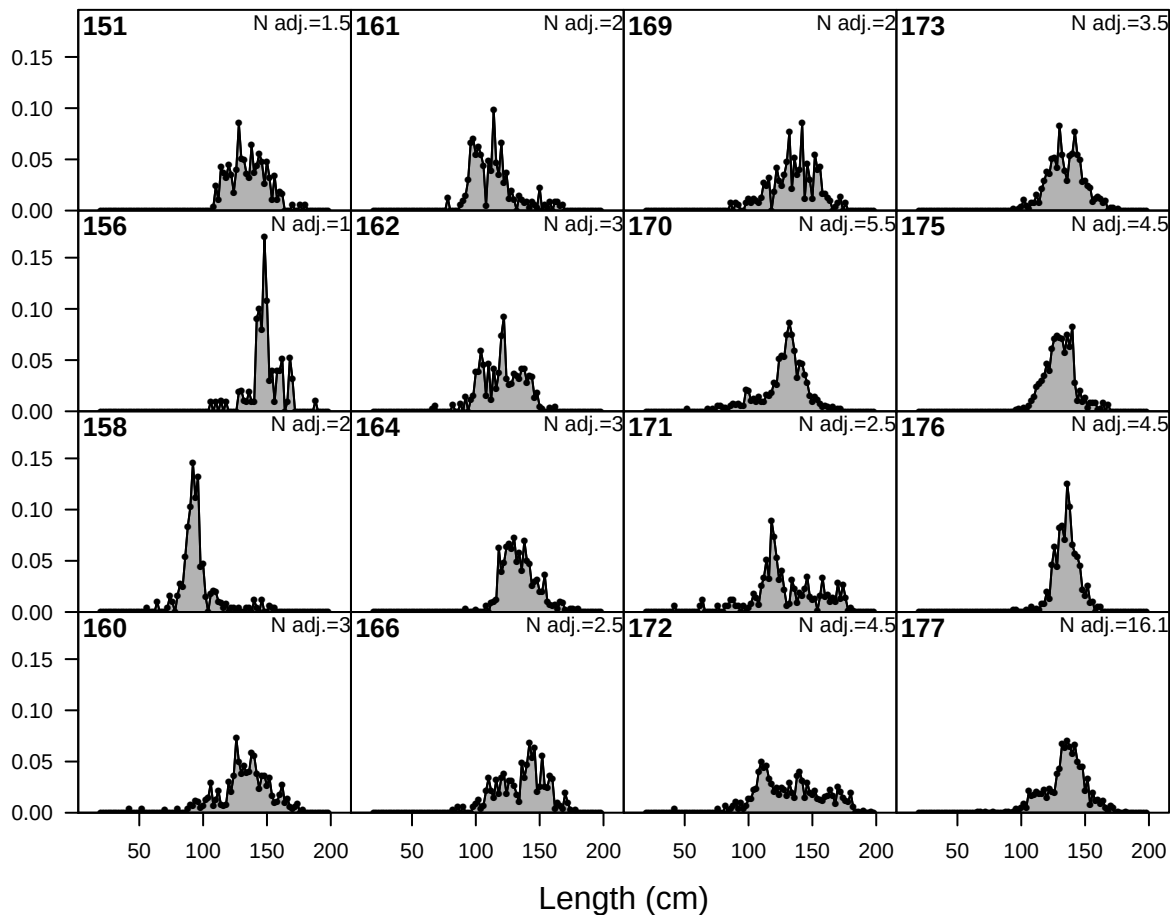
Proportion

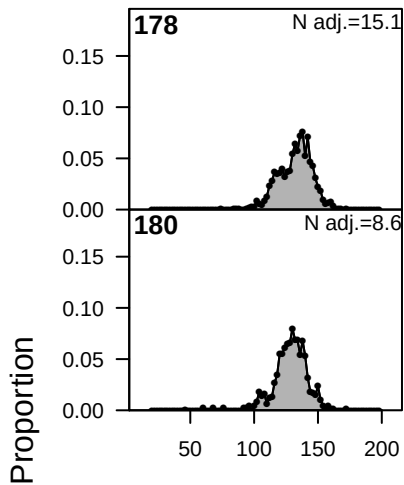




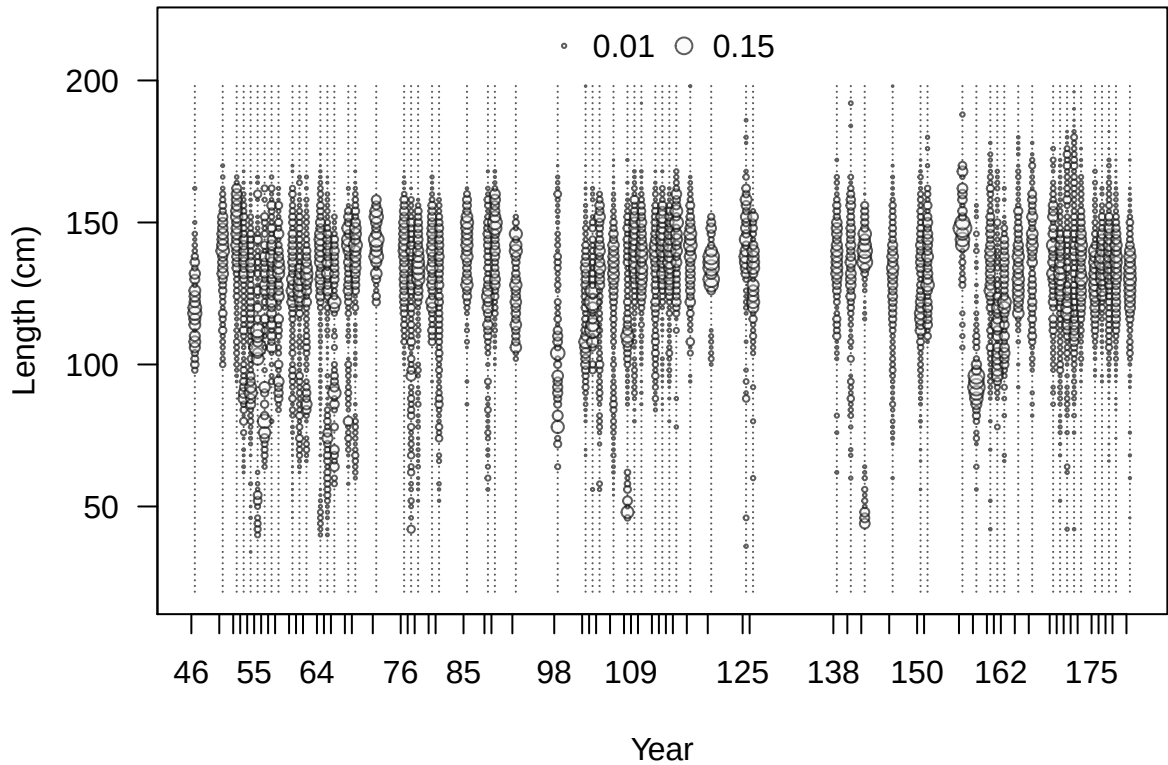
Proportion



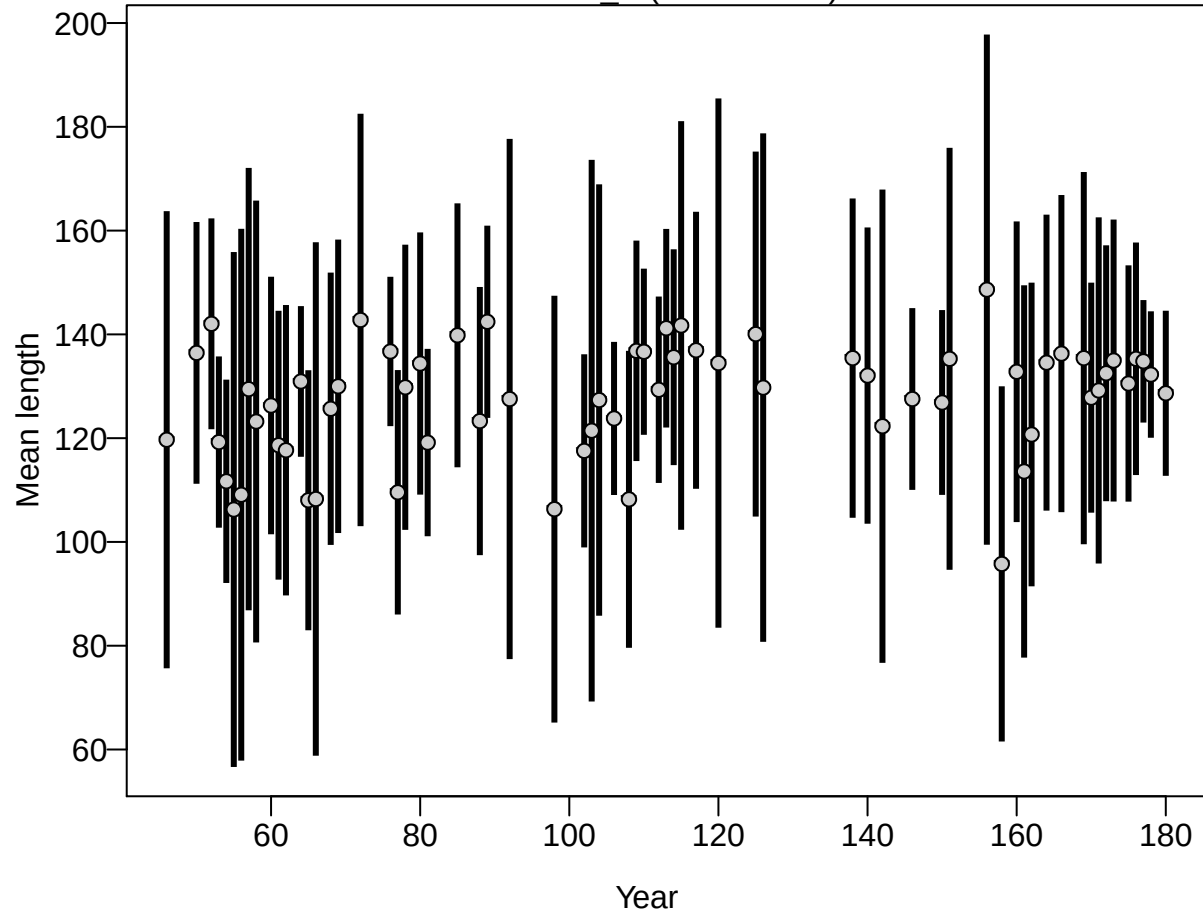


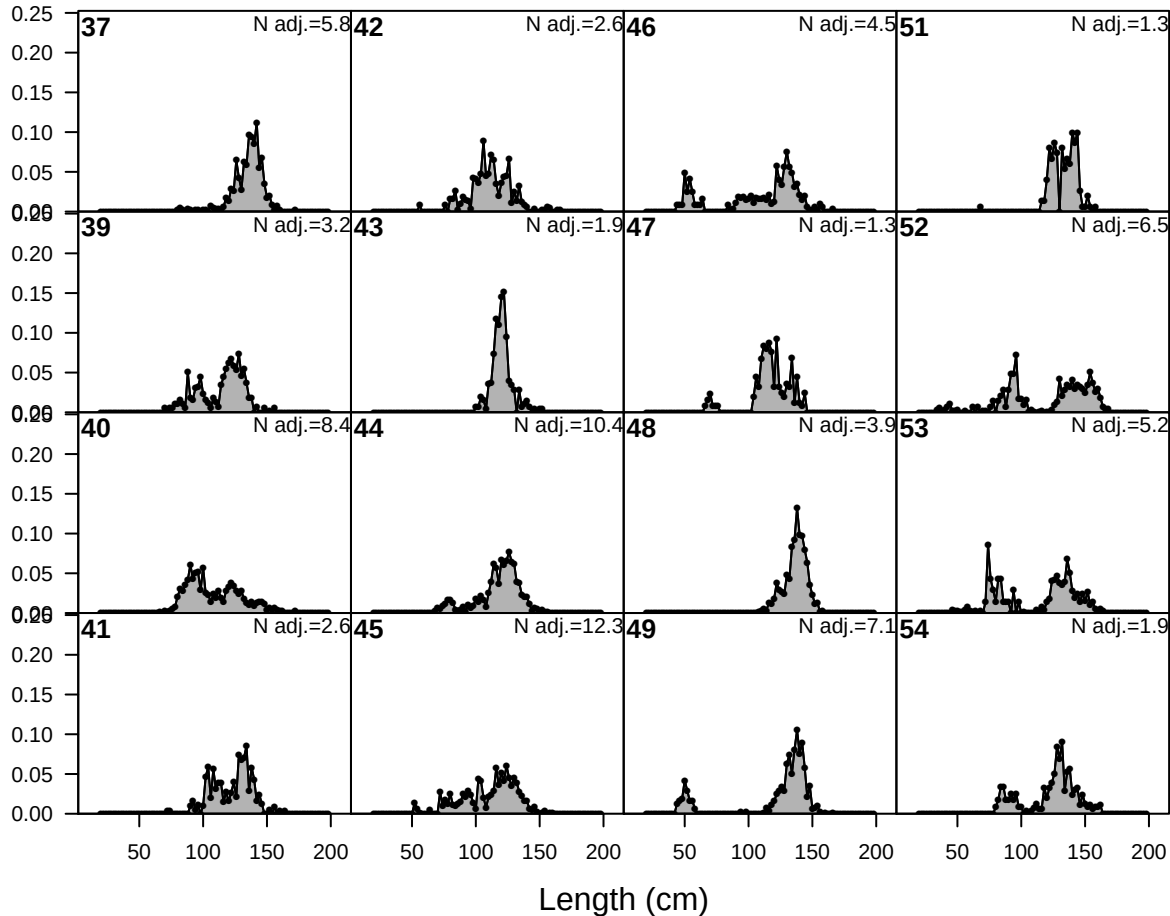


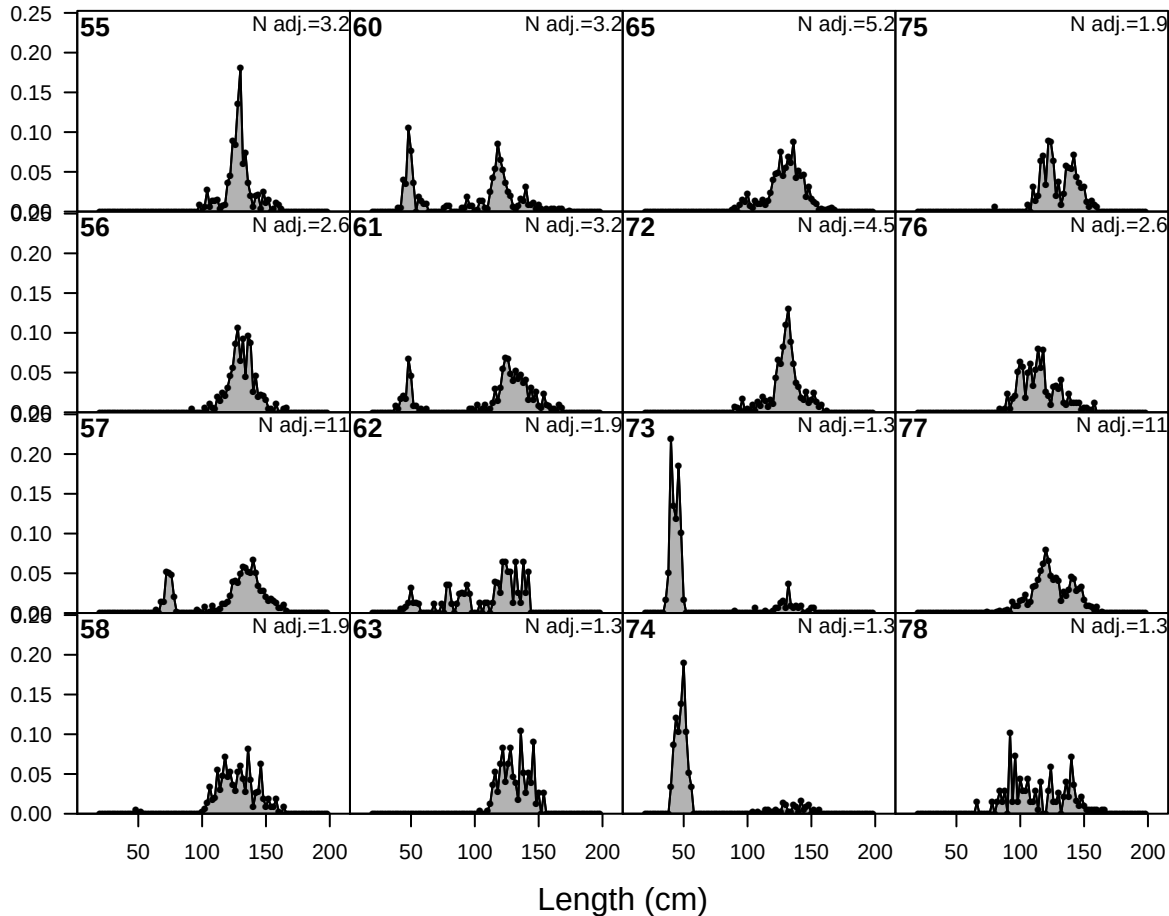
Length (cm)

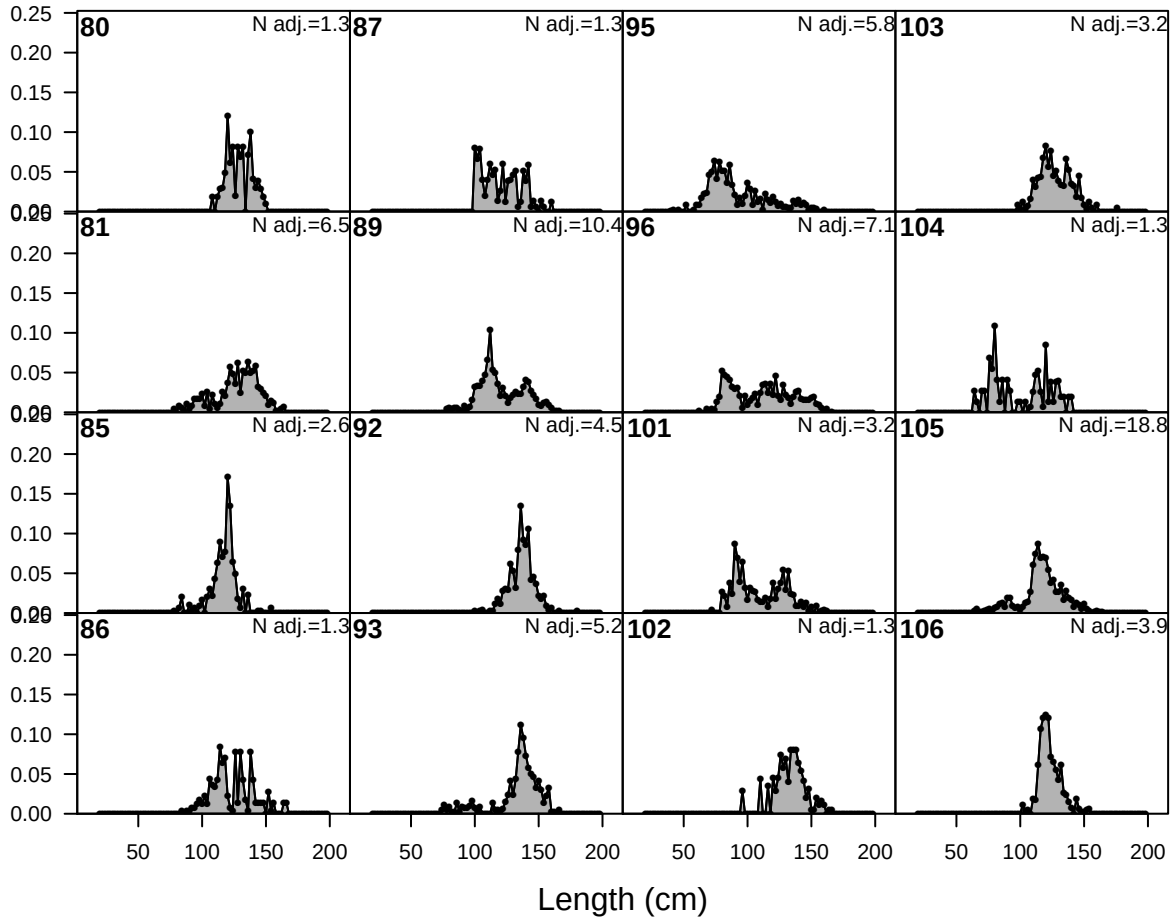


F20-DEL_S (whole catch)

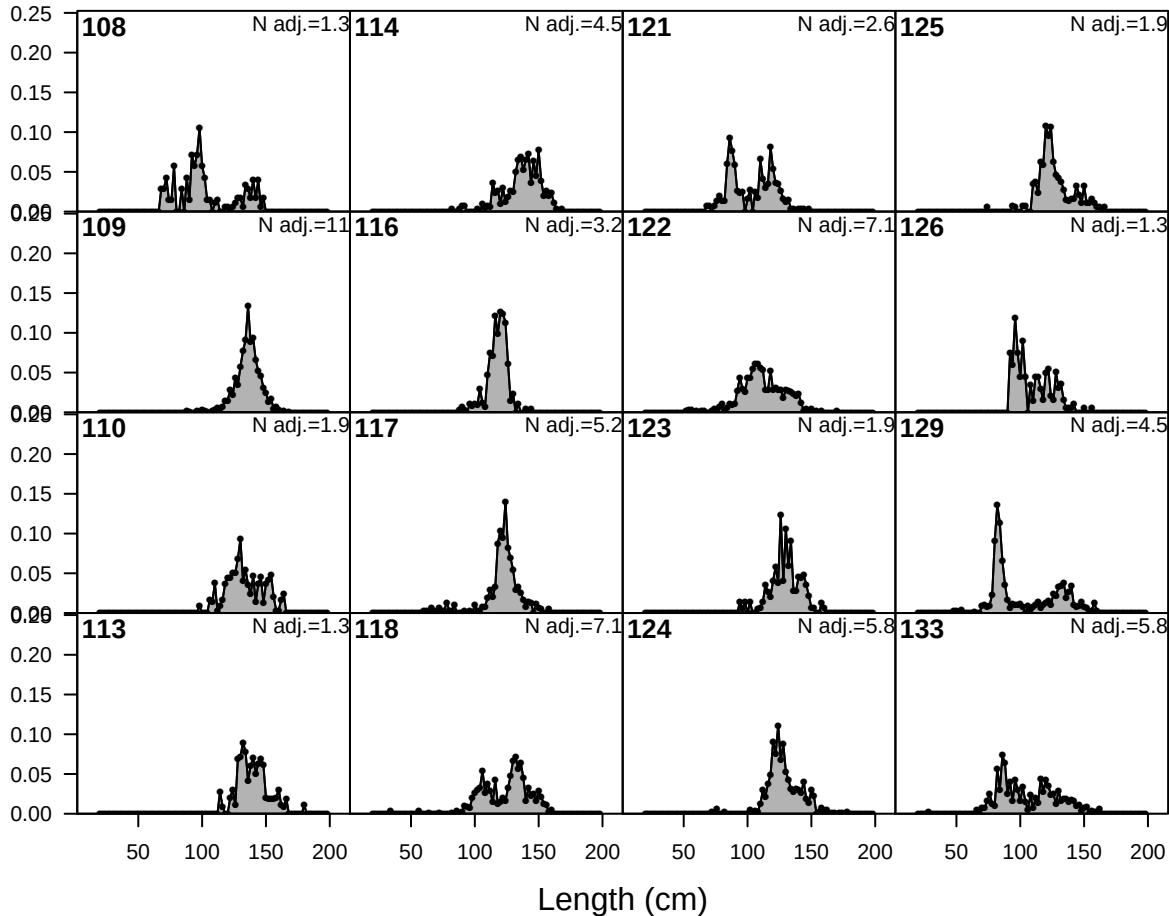


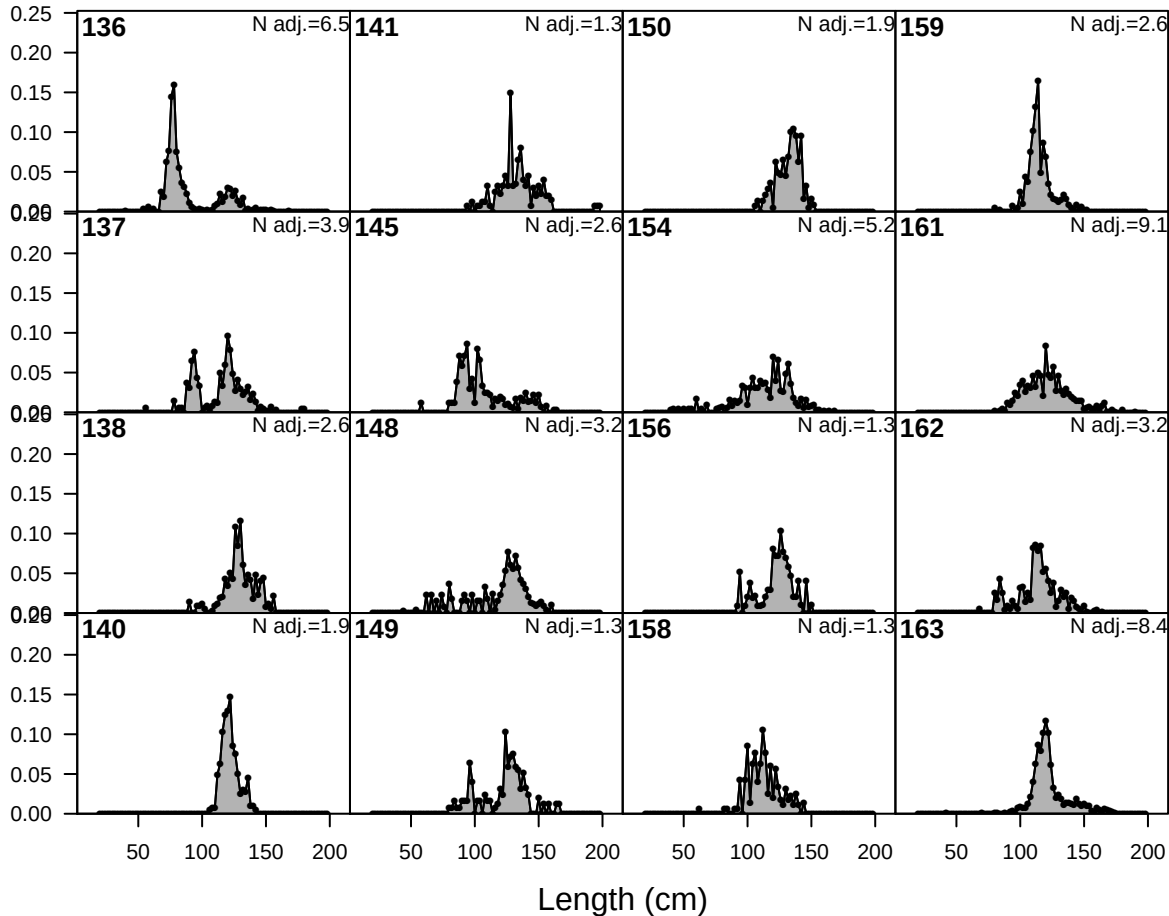




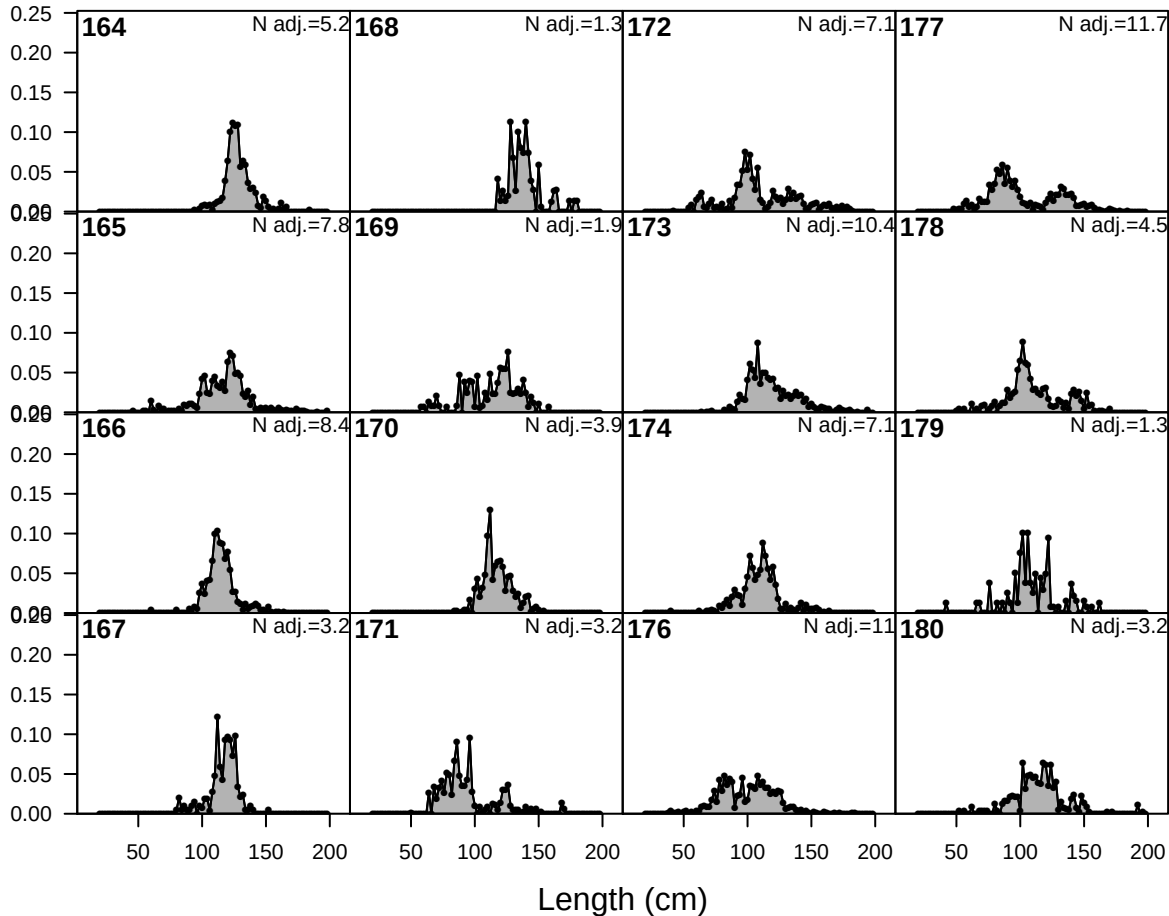


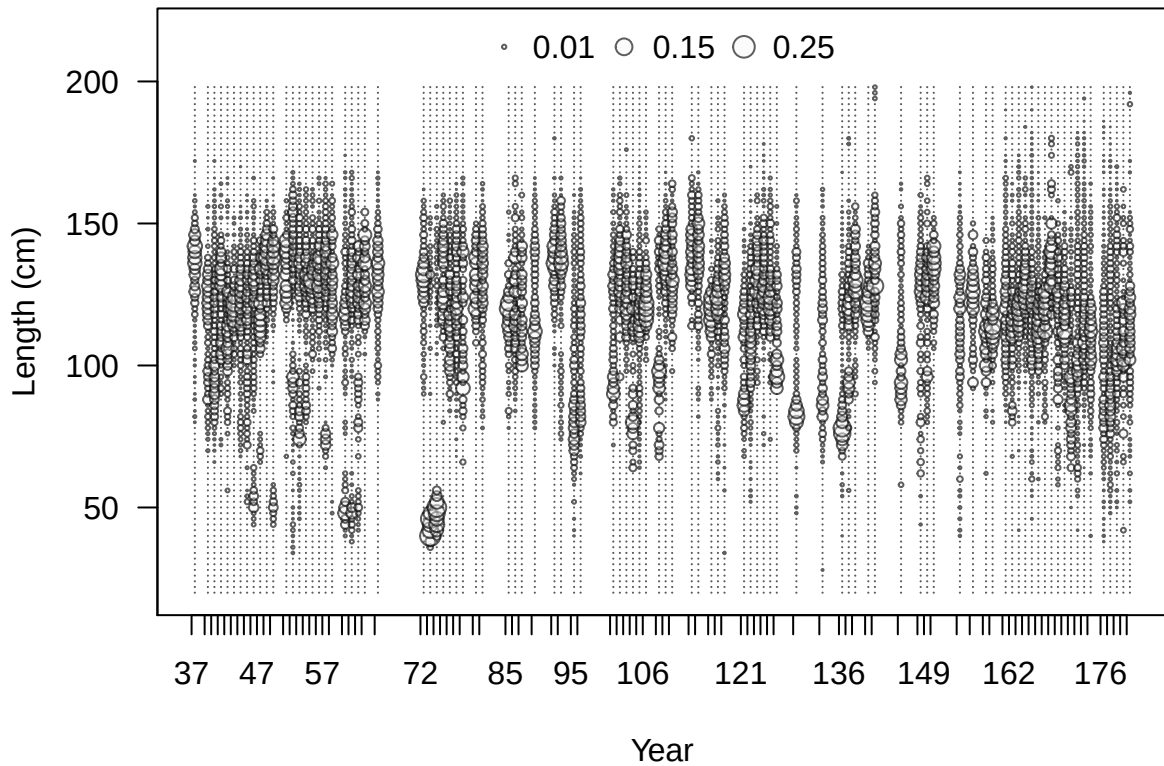
Proportion



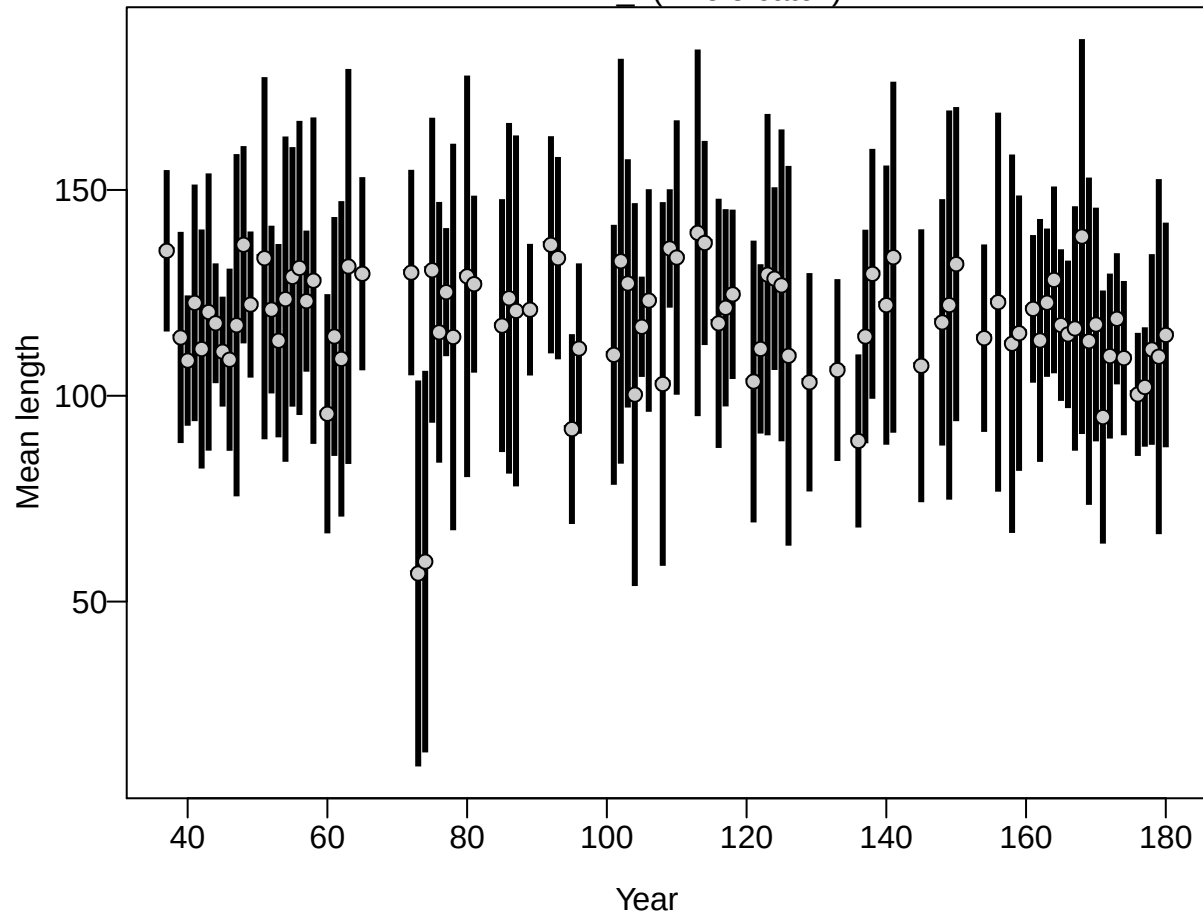


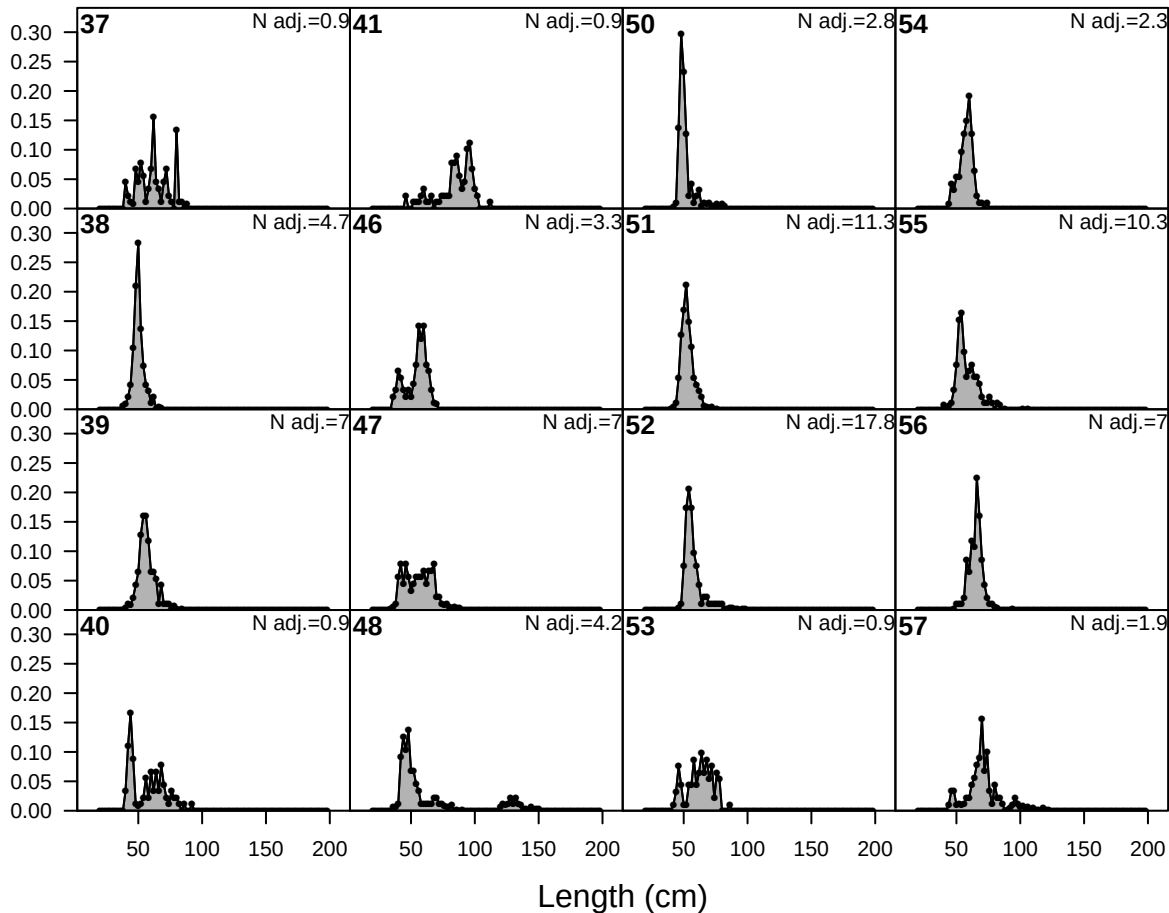
Proportion

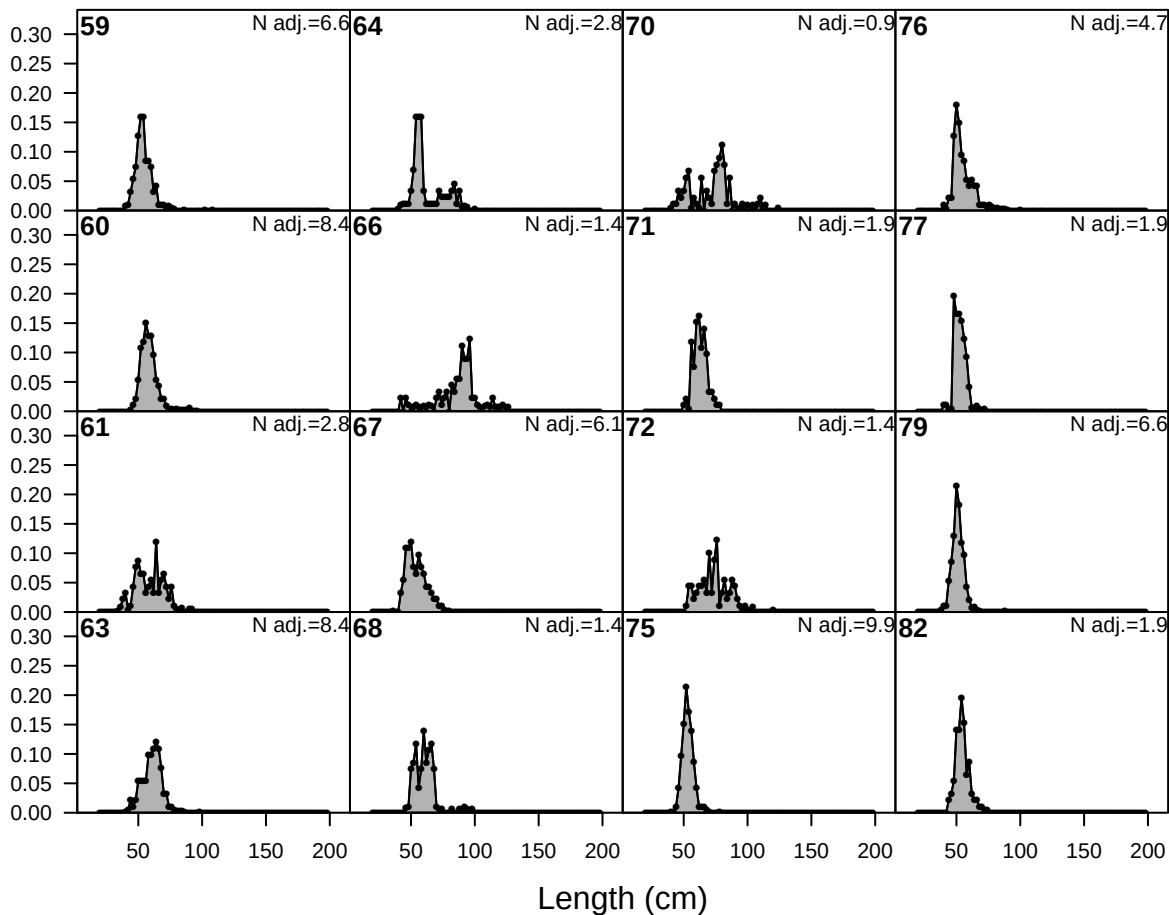


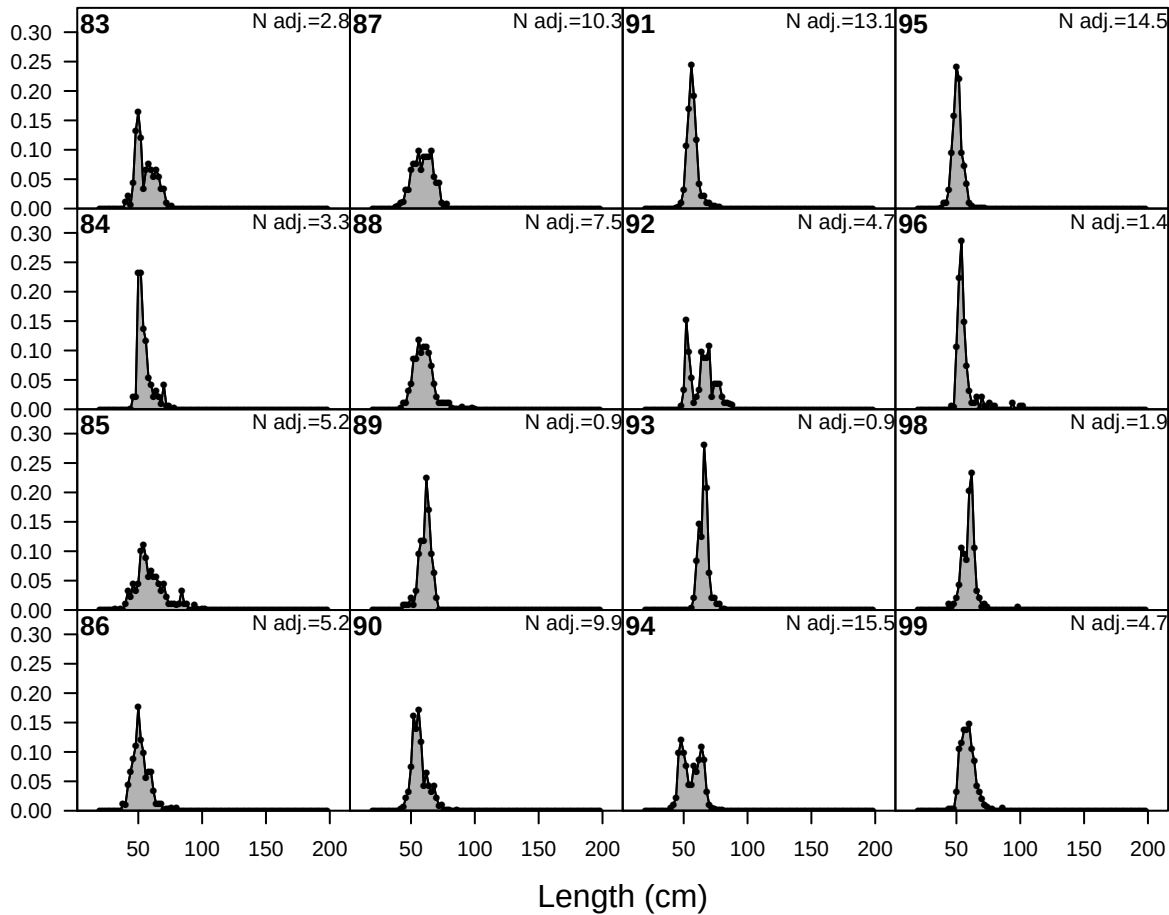


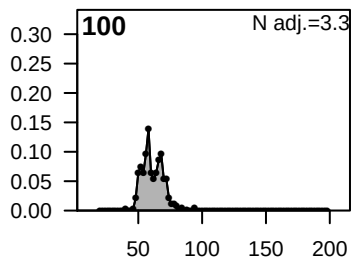
F21-DEL_I (whole catch)





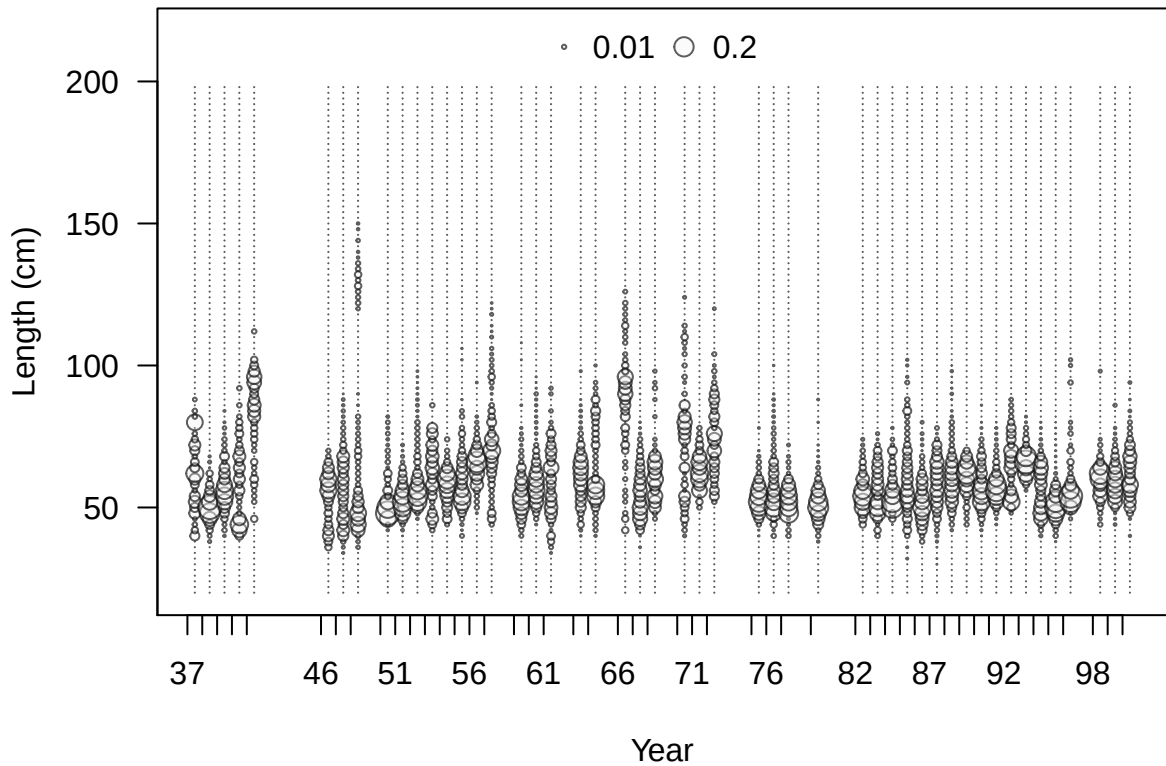




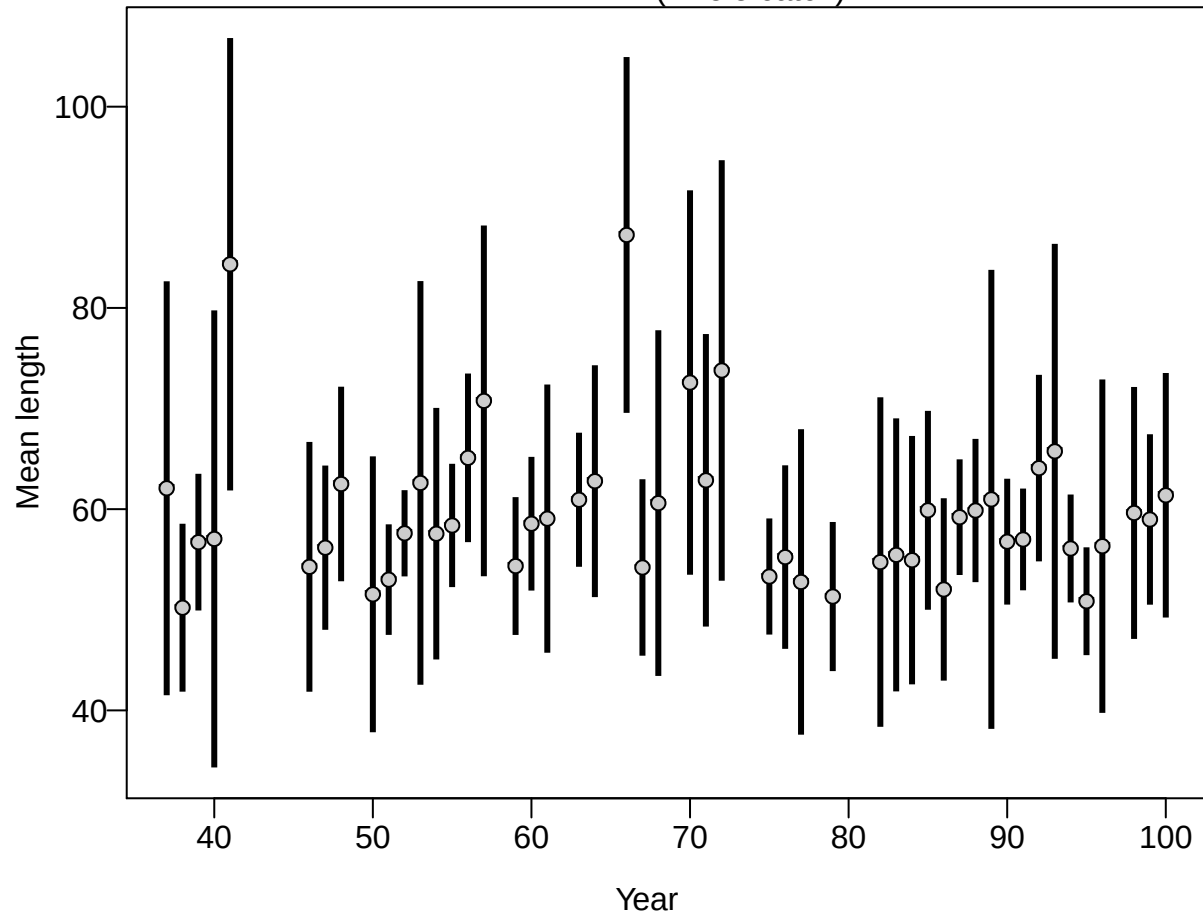


Proportion

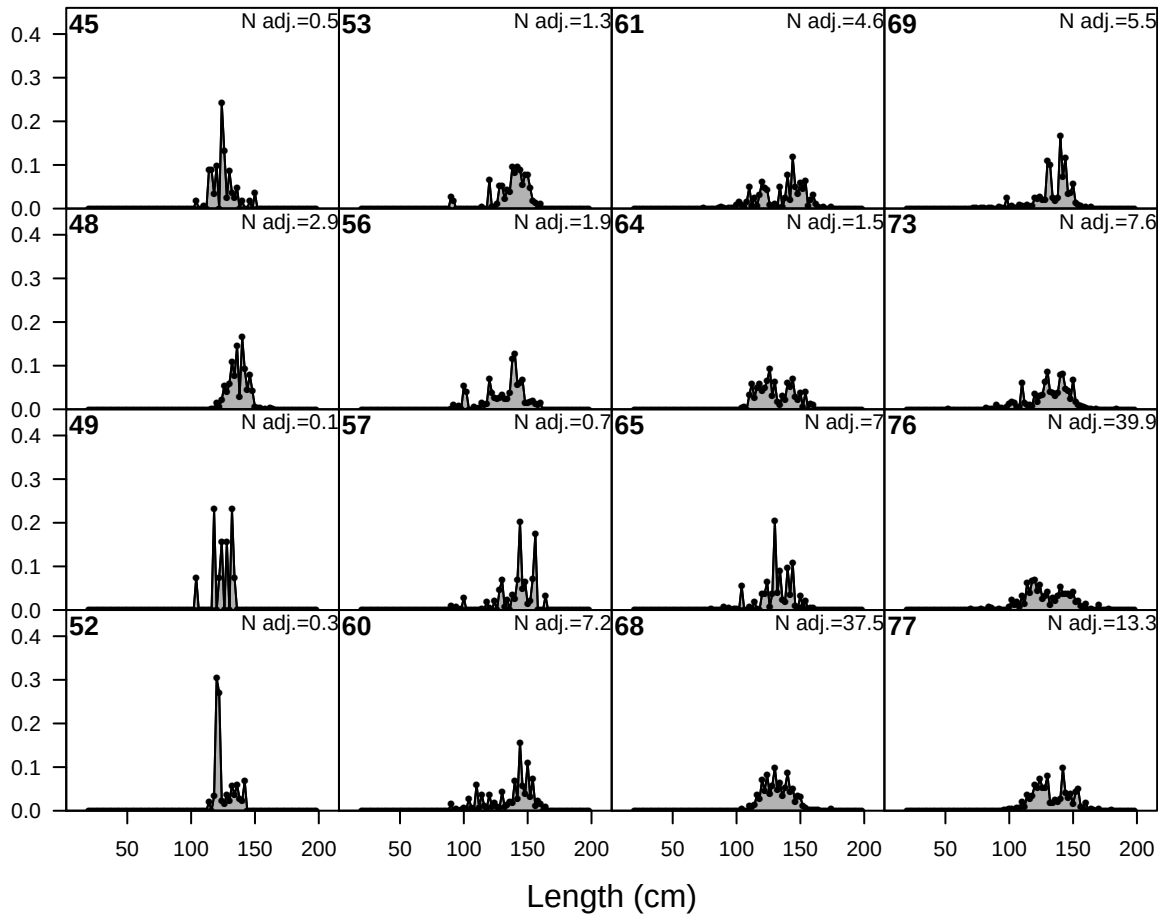
Length (cm)



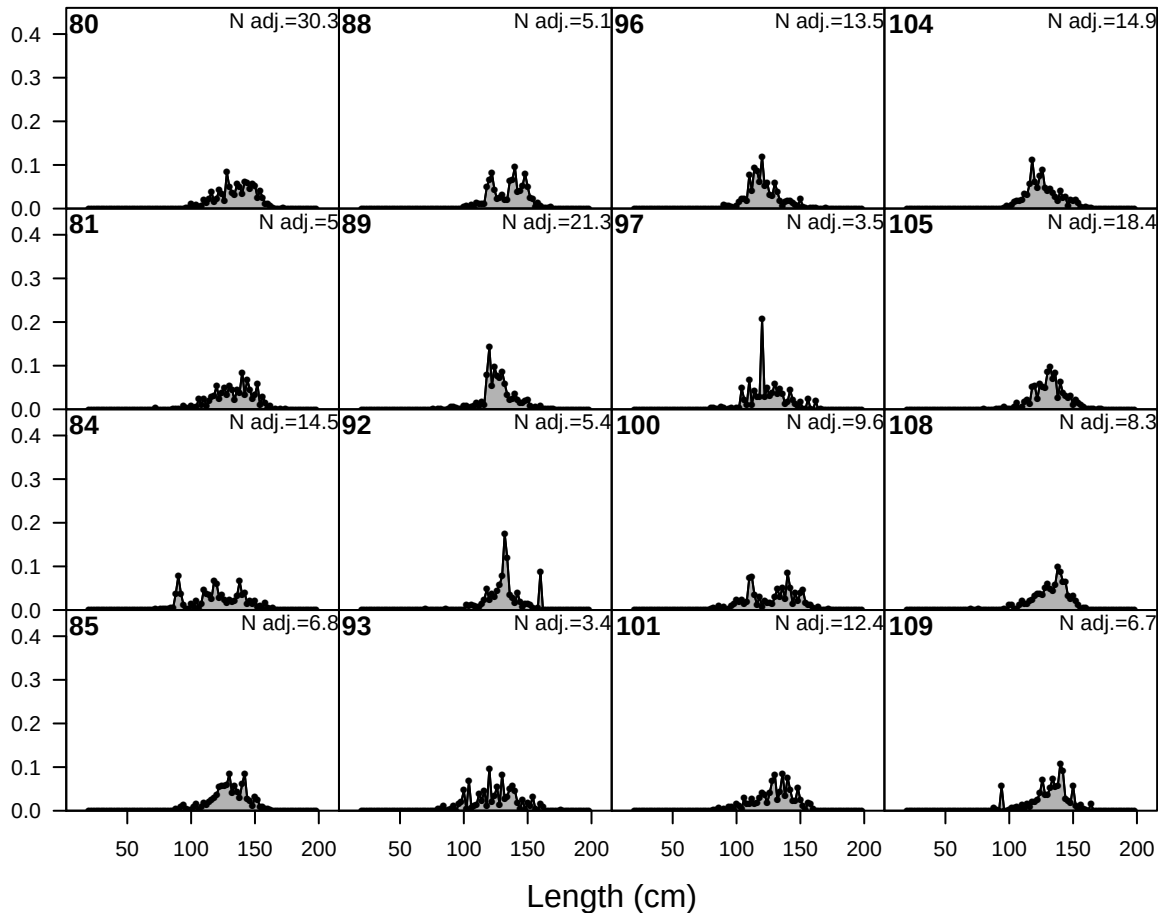
F22-BB (whole catch)



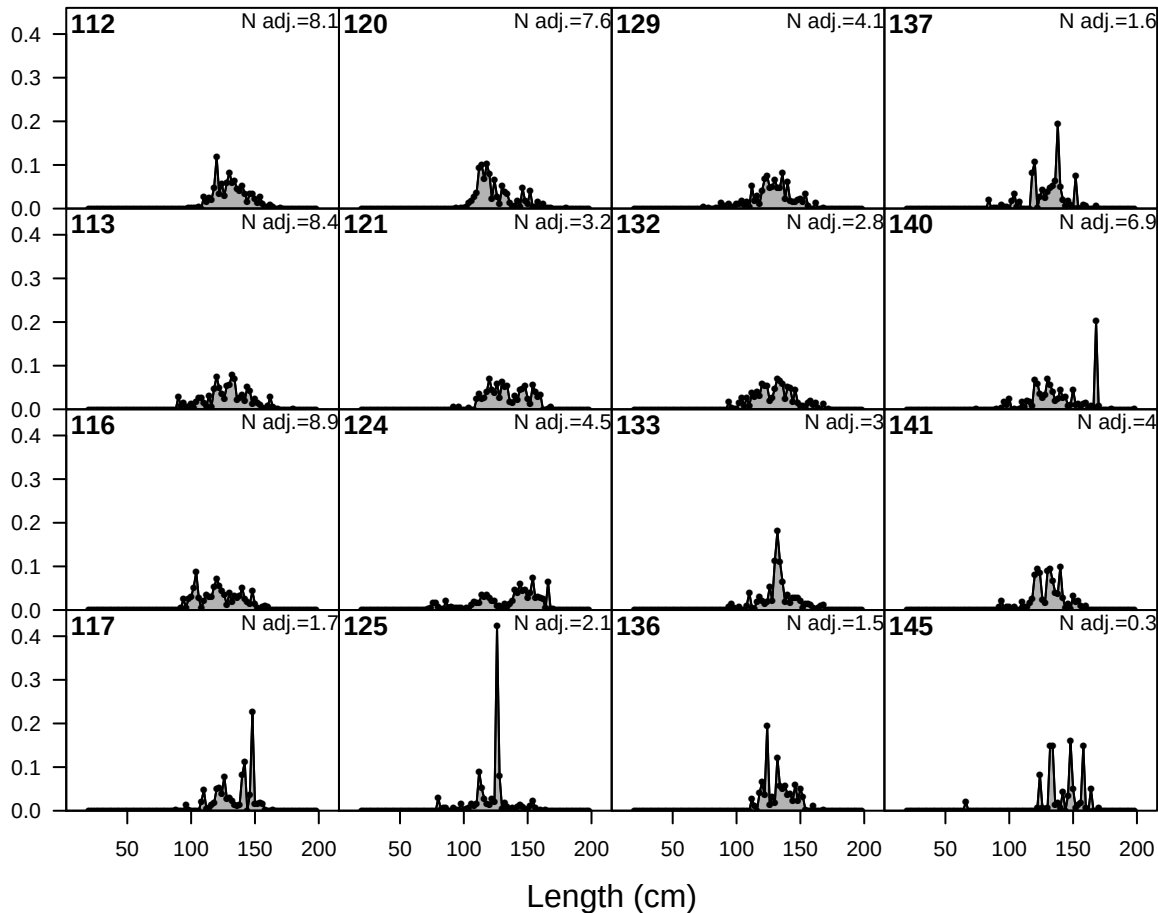
Proportion



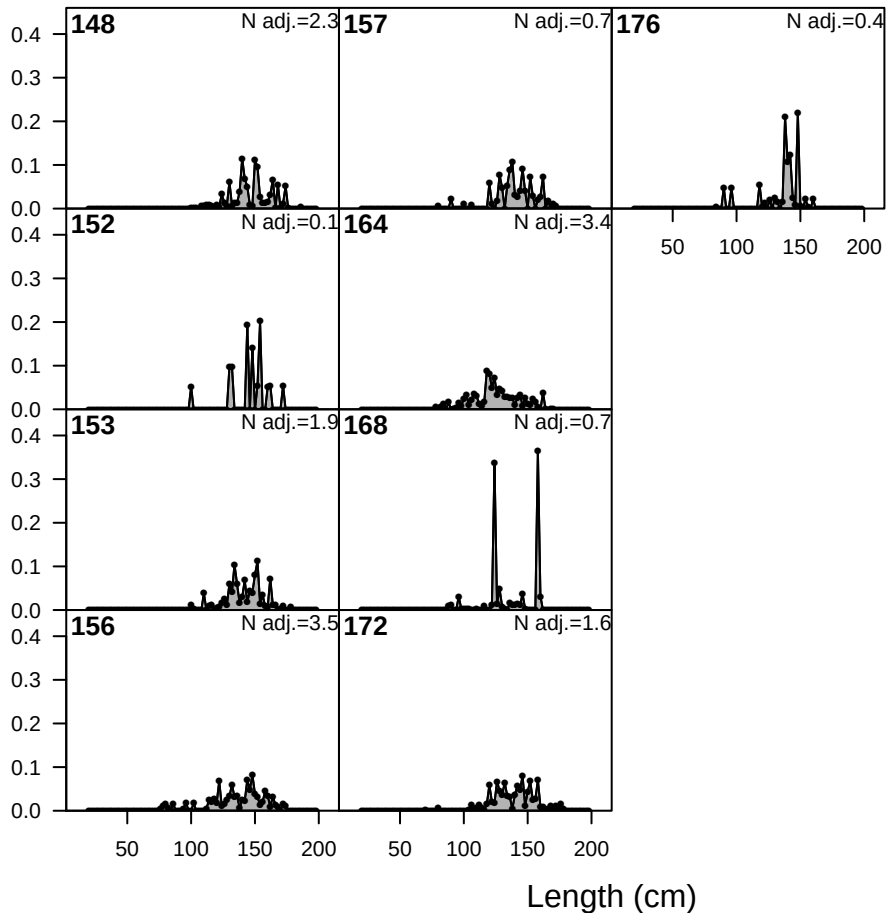
Proportion

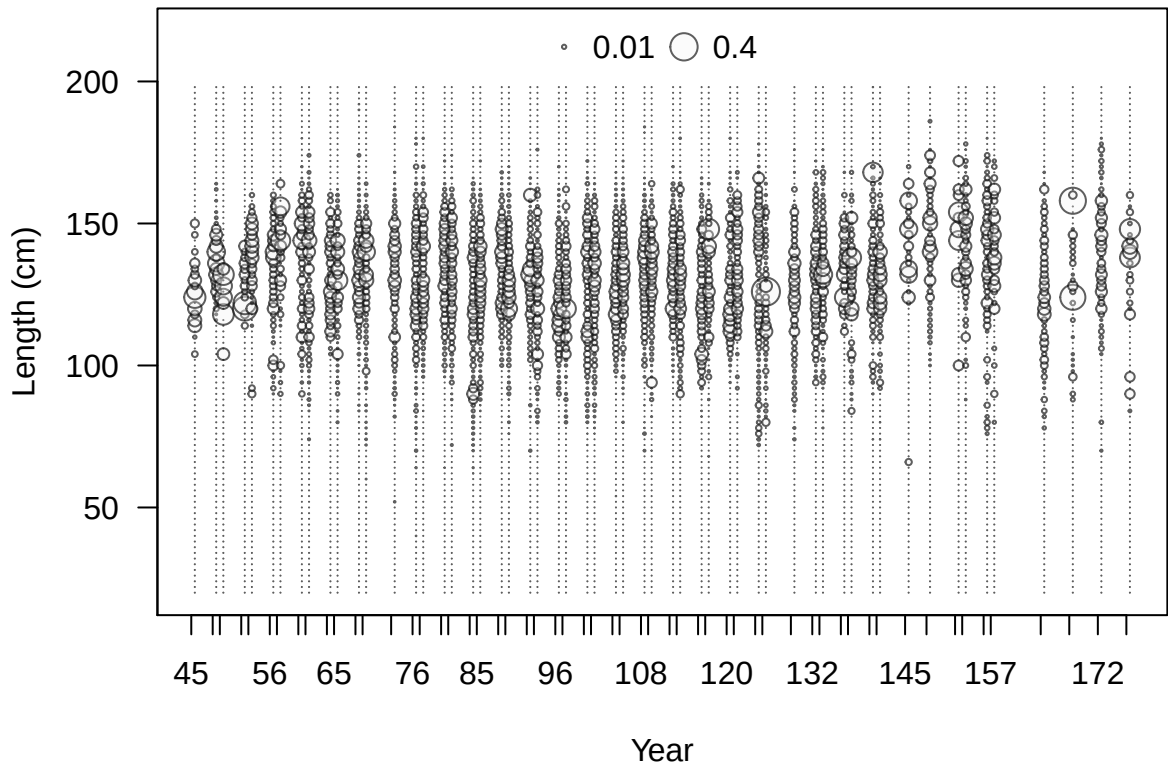


Proportion

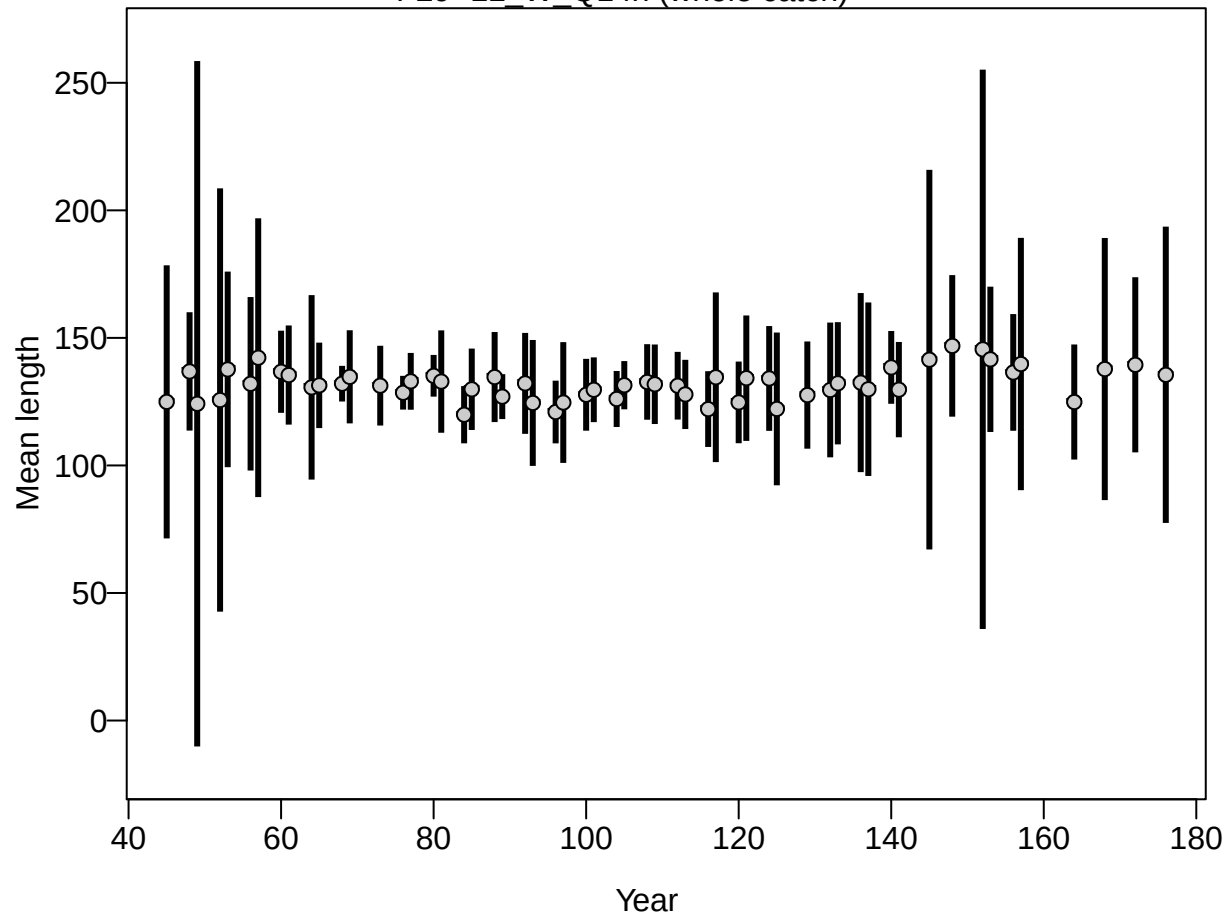


Proportion

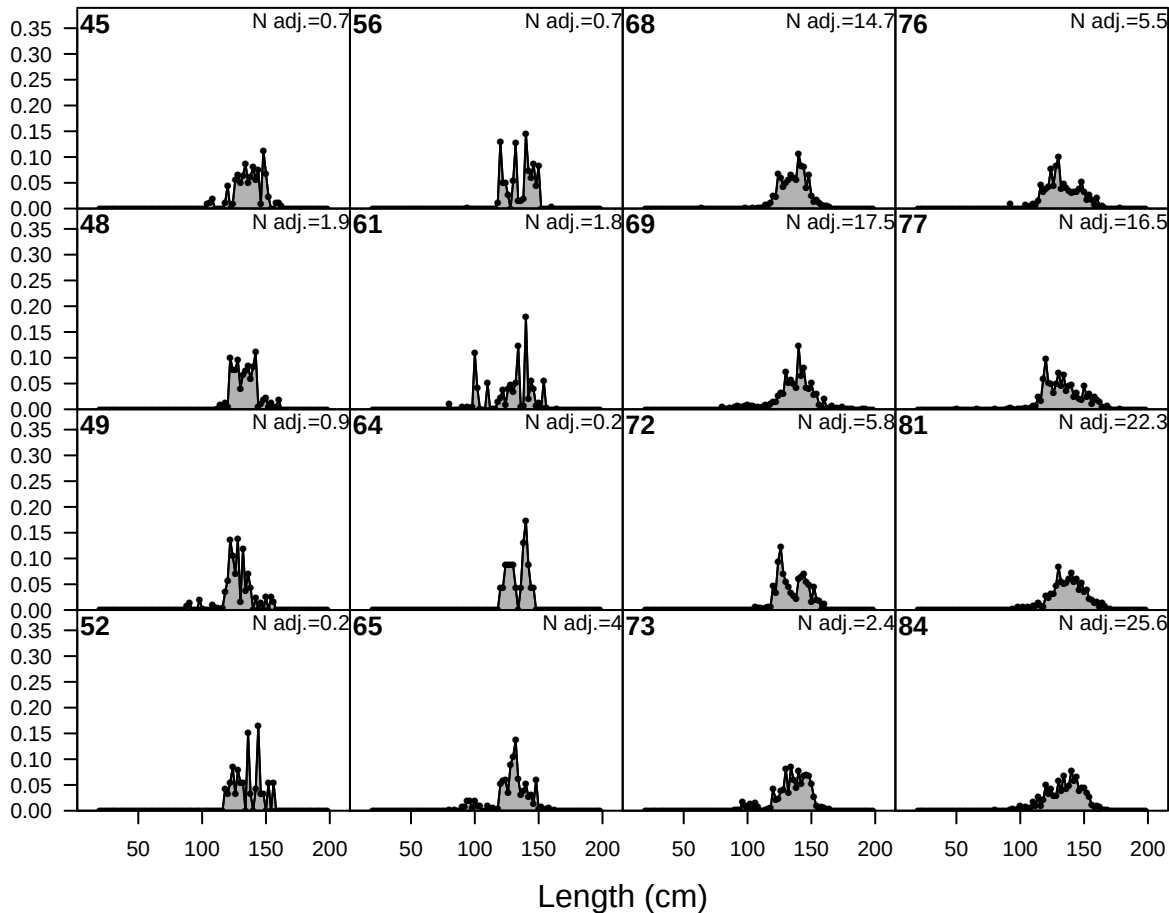




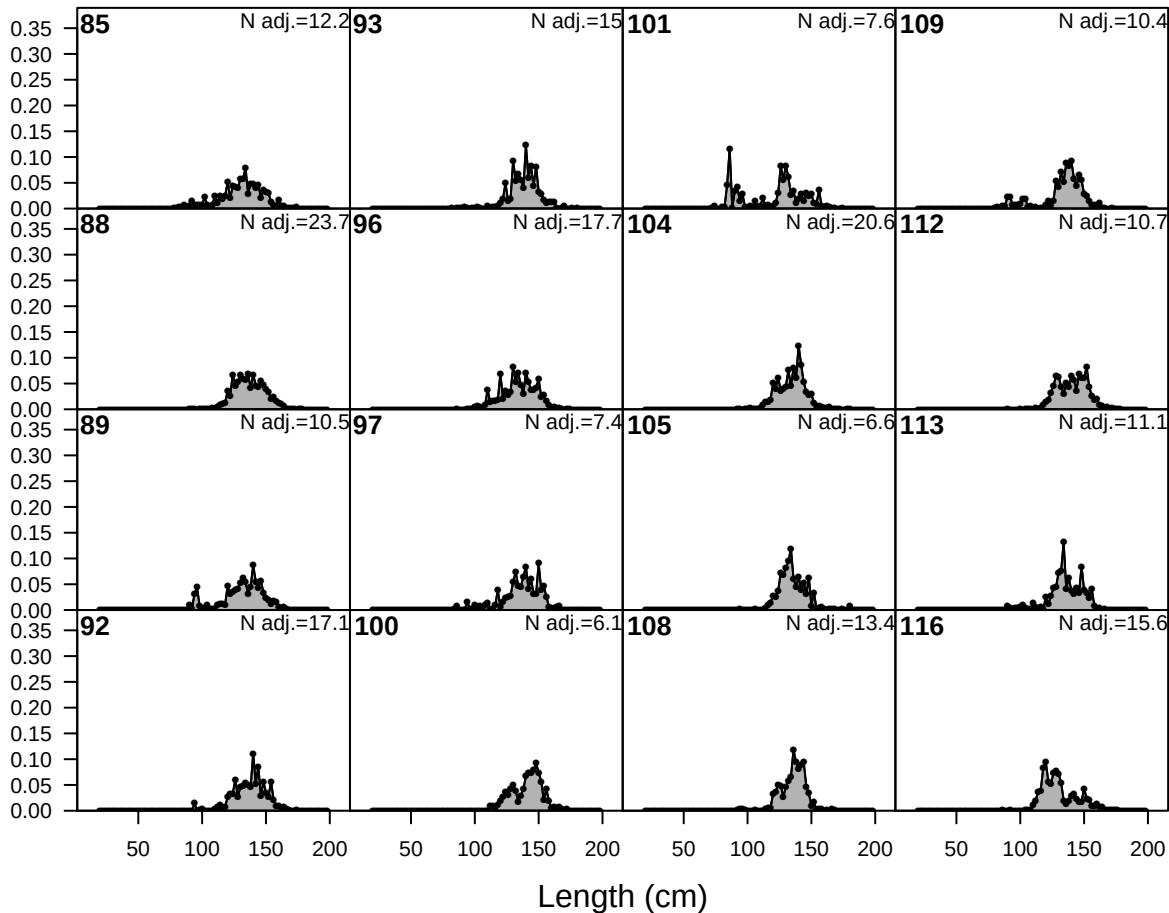
F29-LL W_Q14n (whole catch)

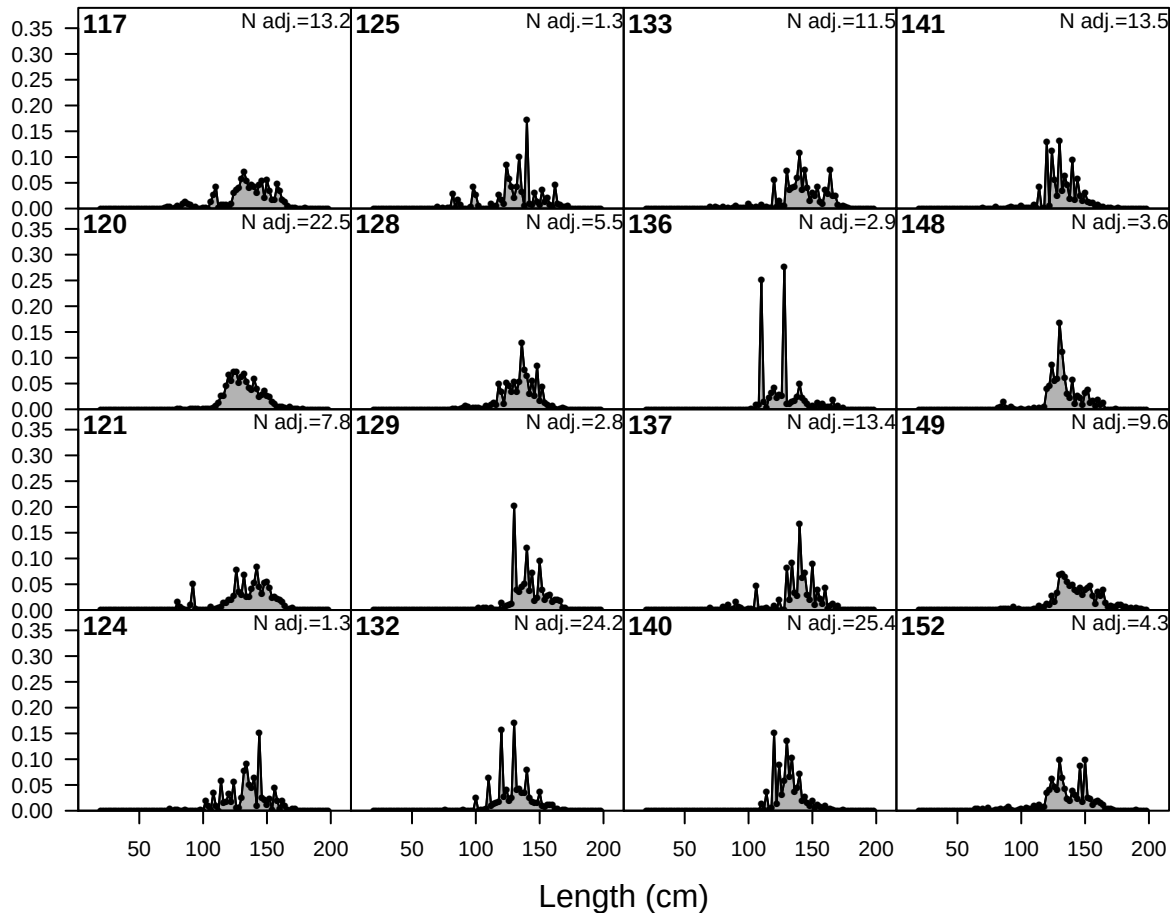


Proportion

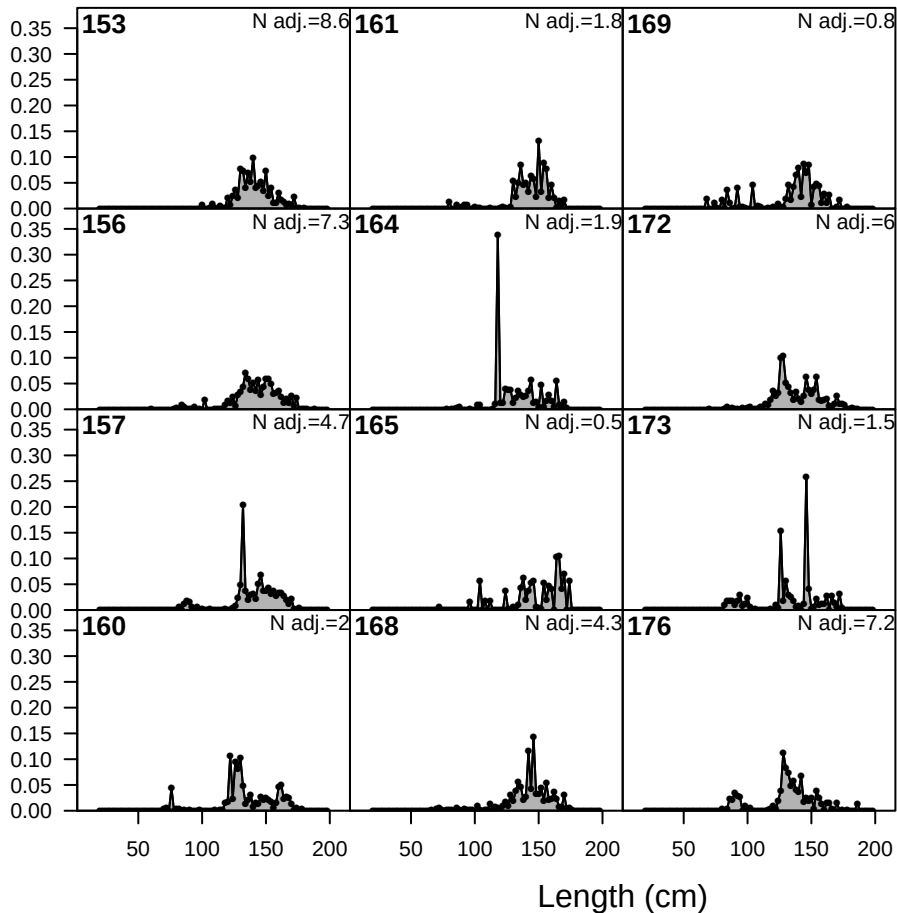


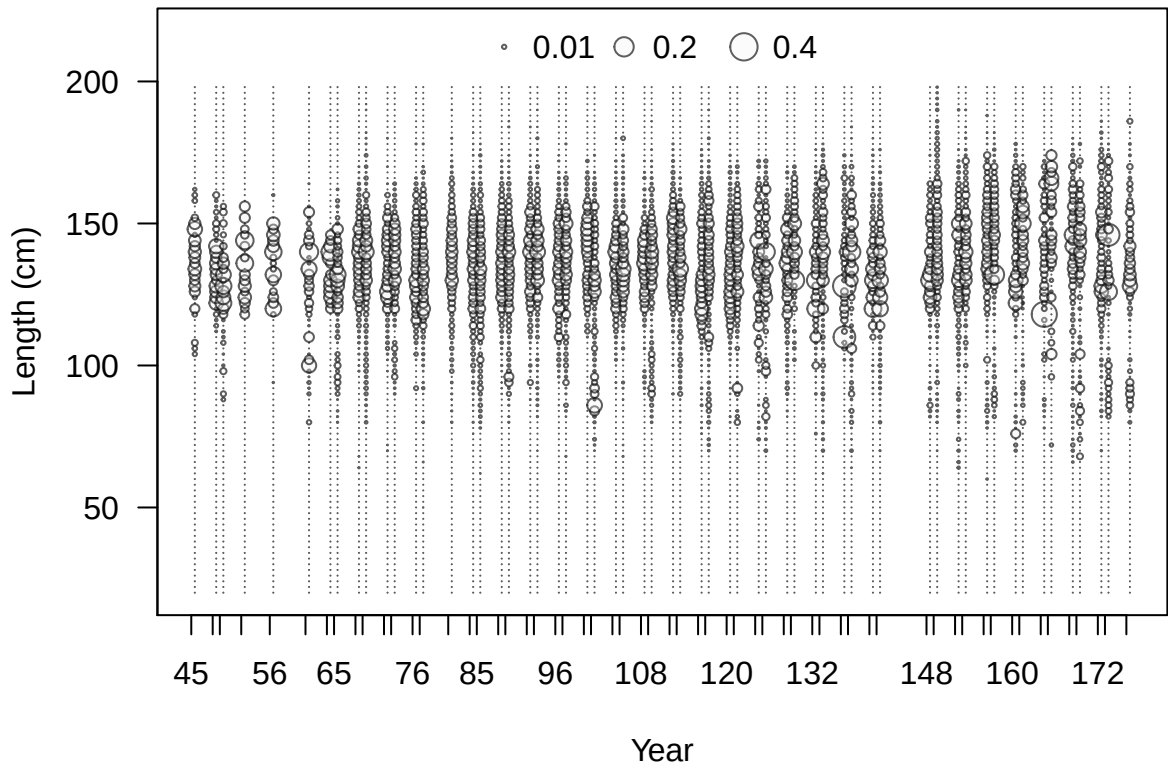
Proportion



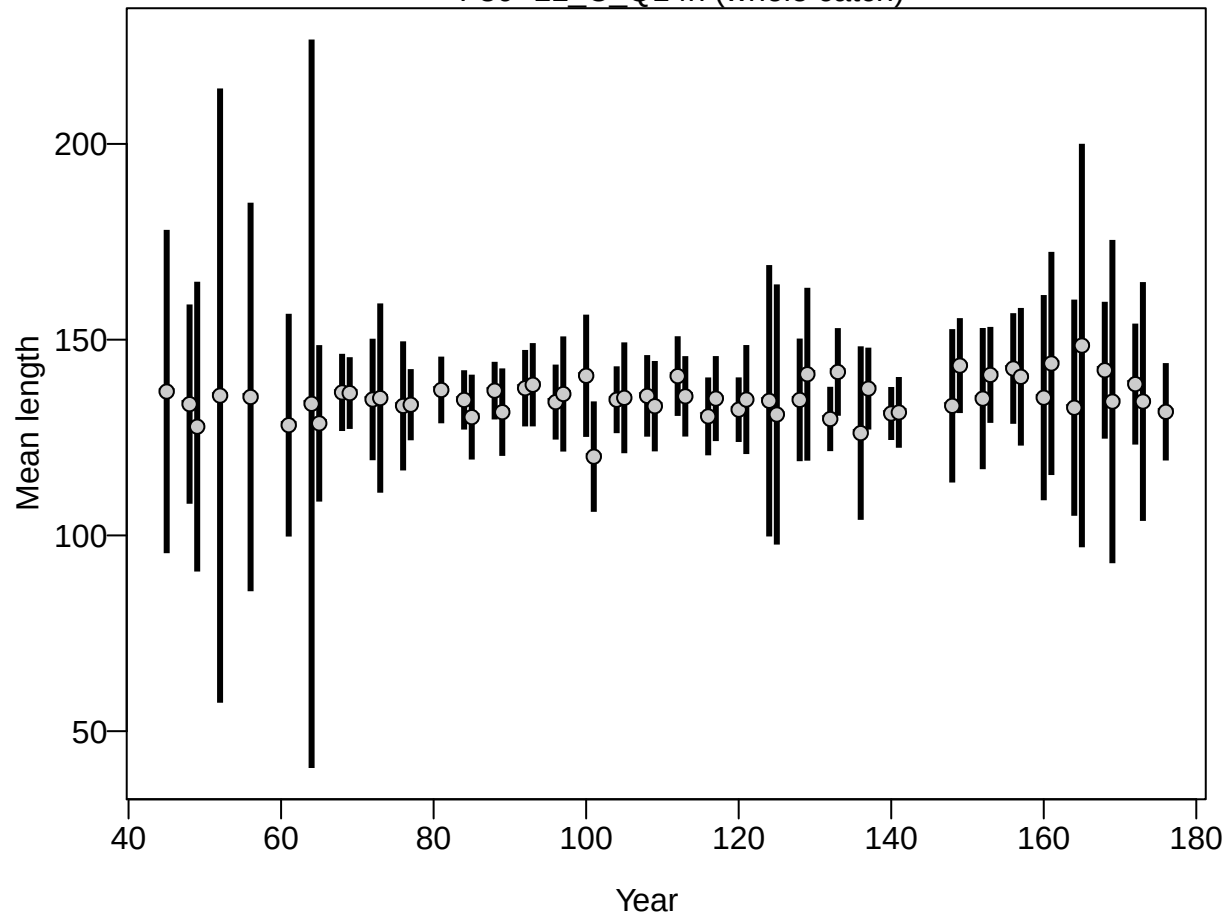


Proportion

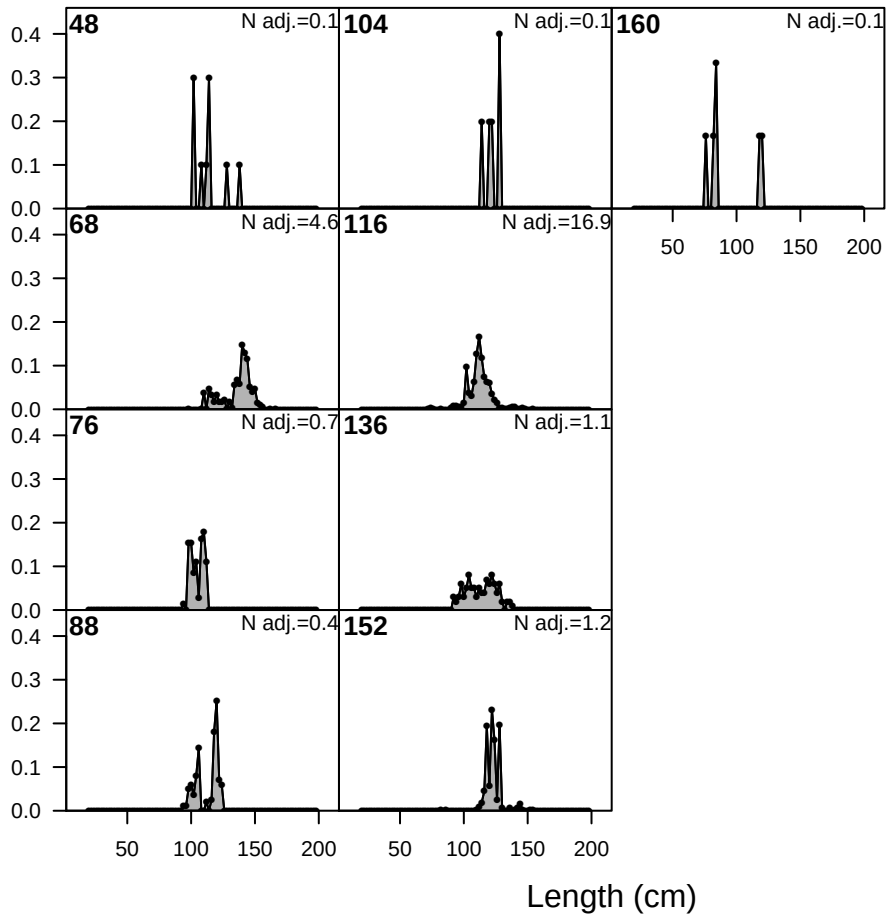


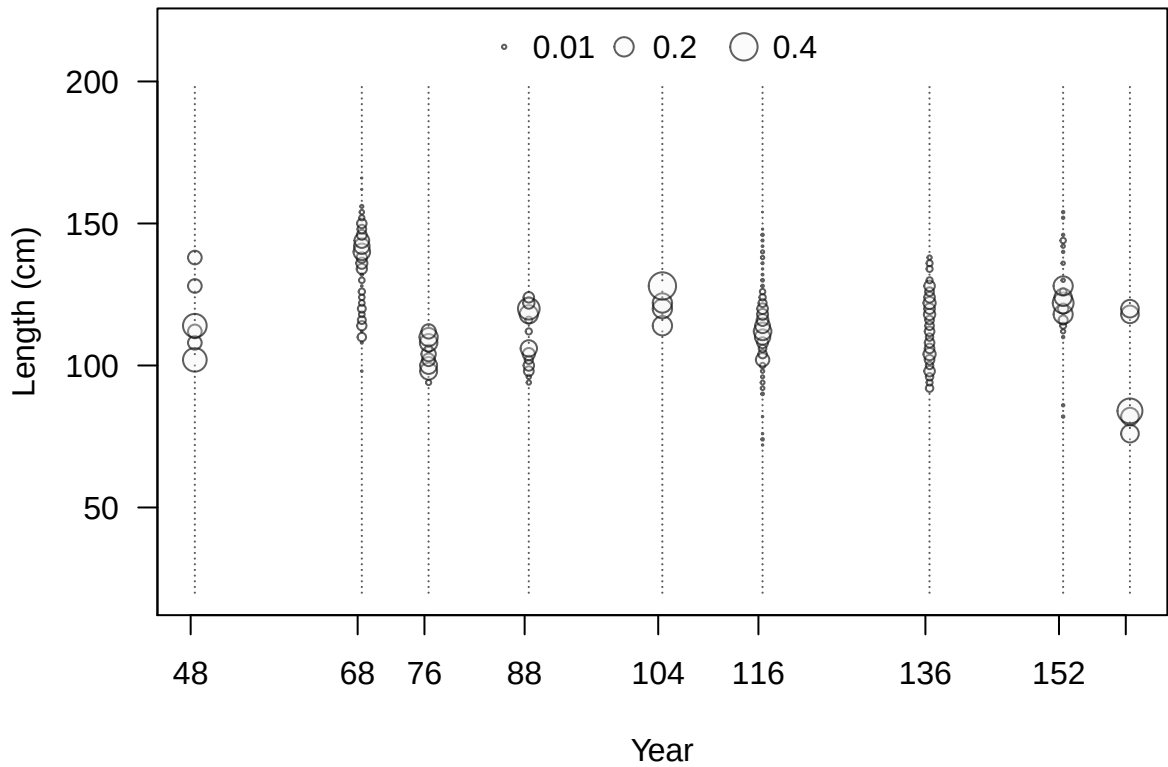


F30-LL_C_Q14n (whole catch)

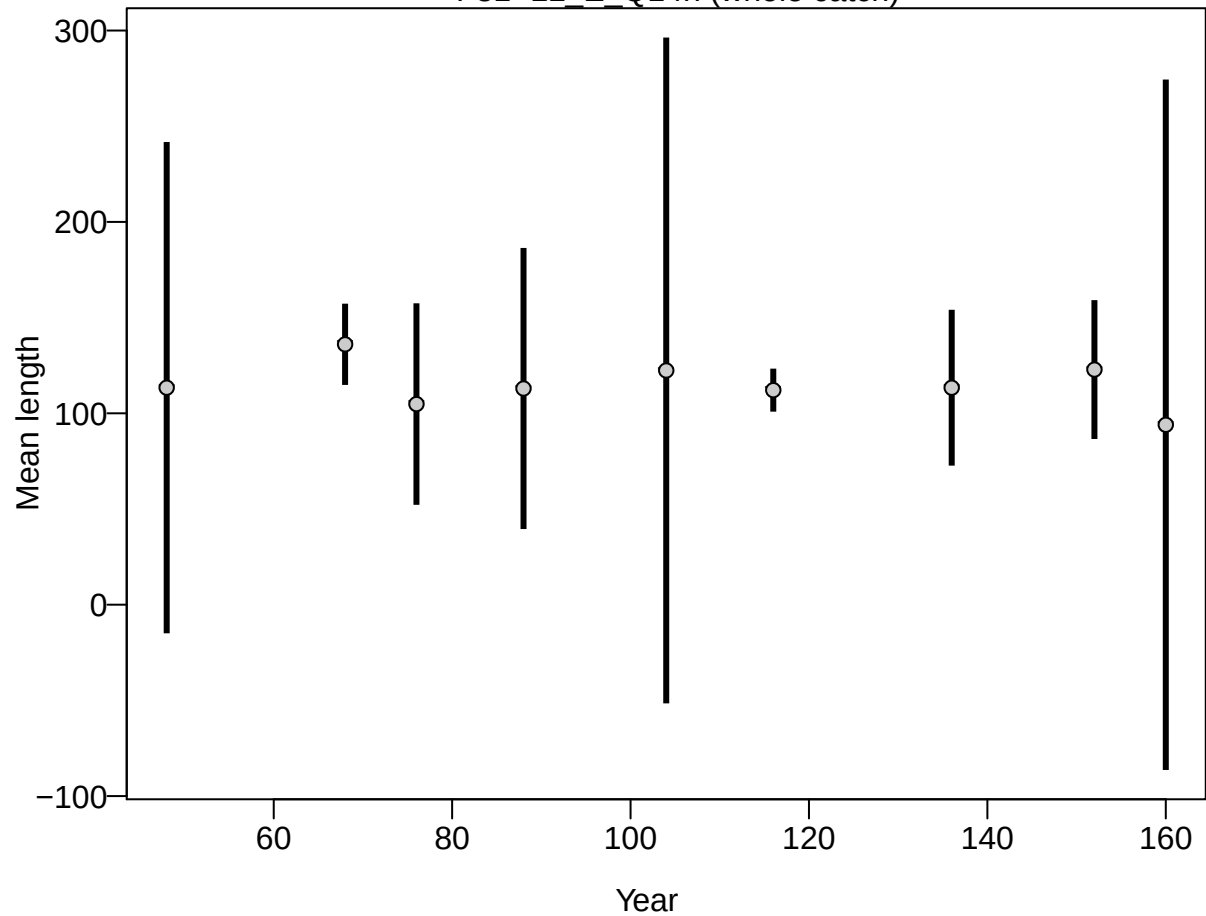


Proportion

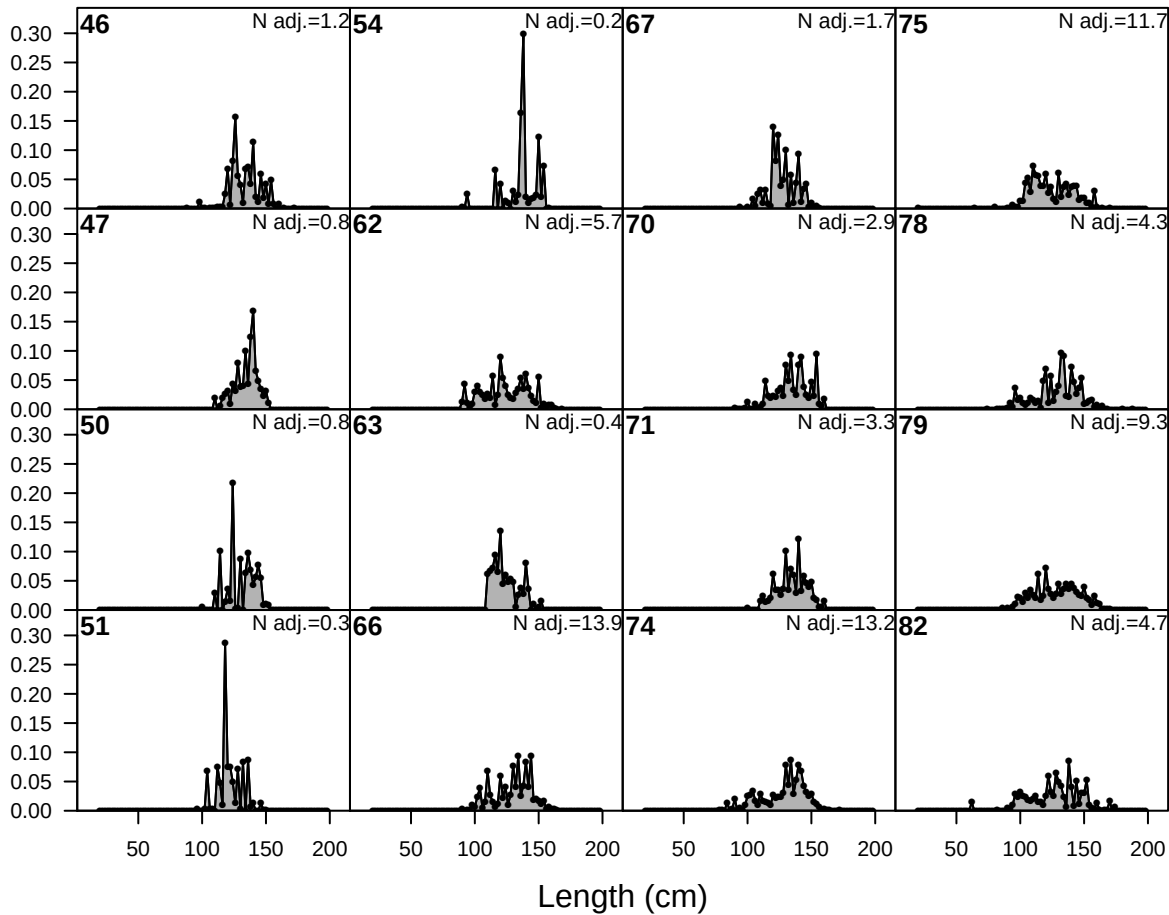




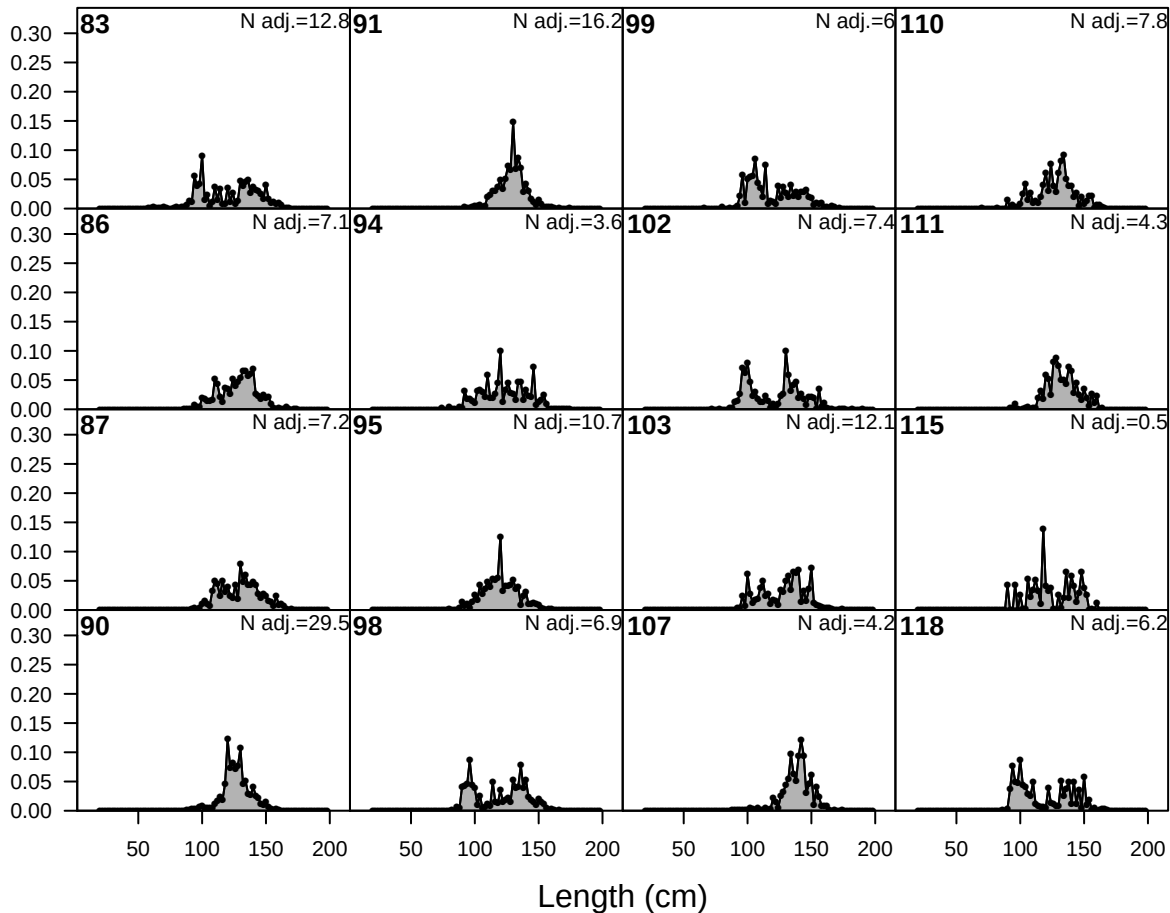
F31-LL E_Q14n (whole catch)

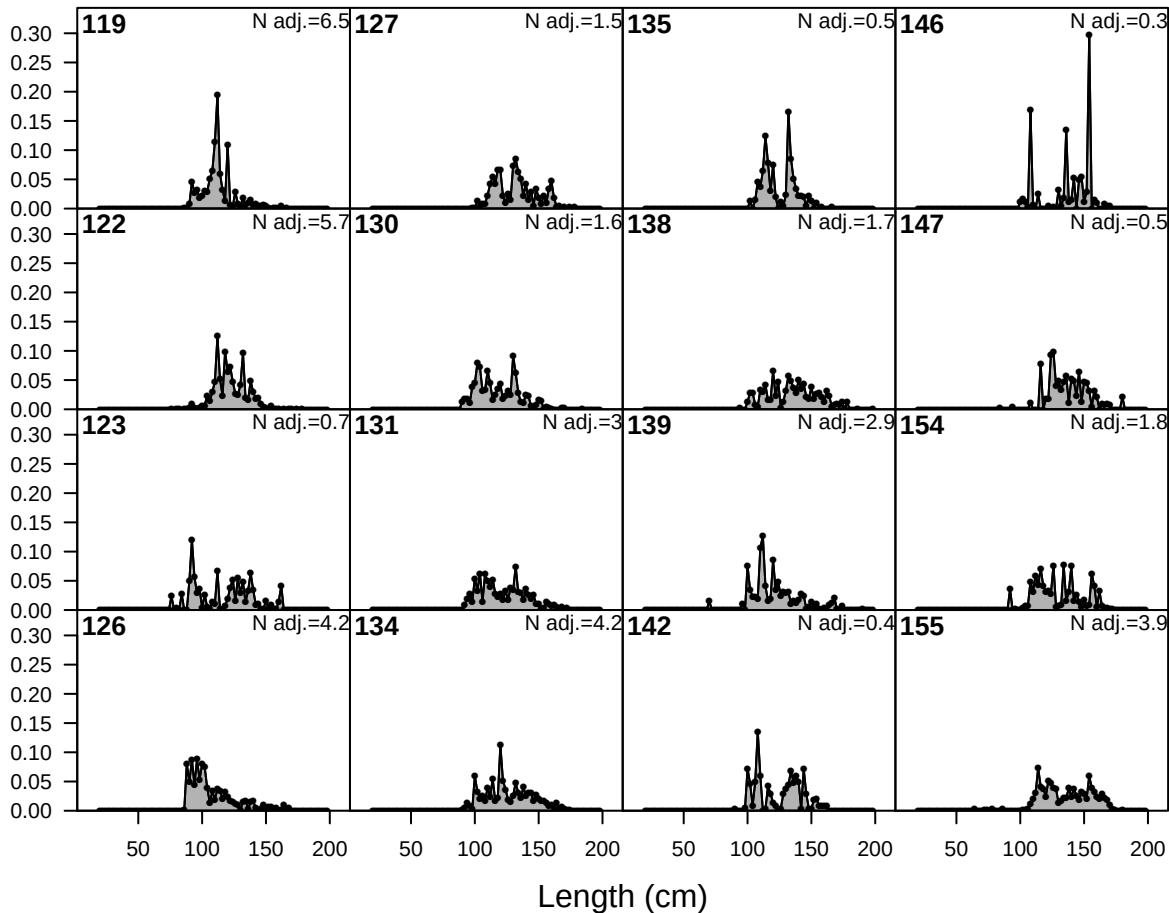


Proportion

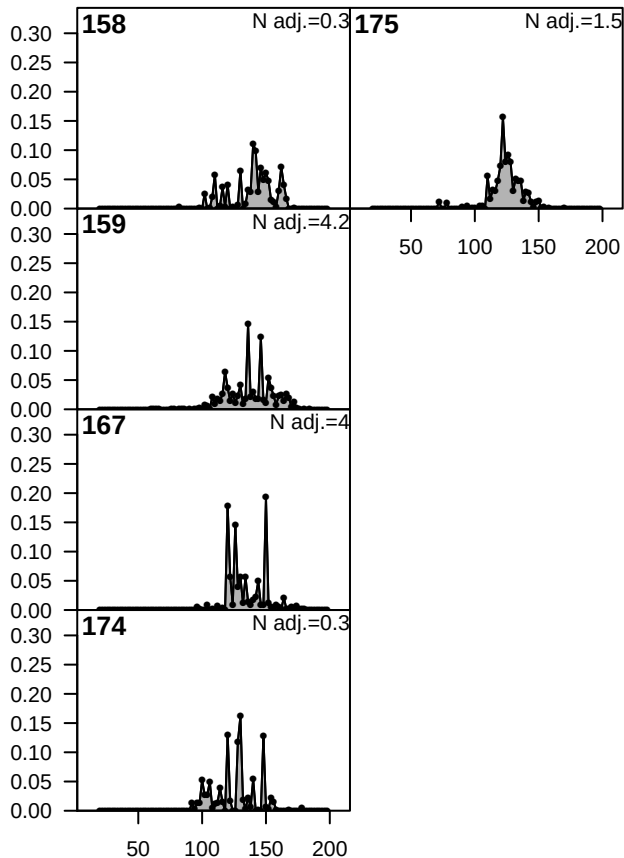


Proportion

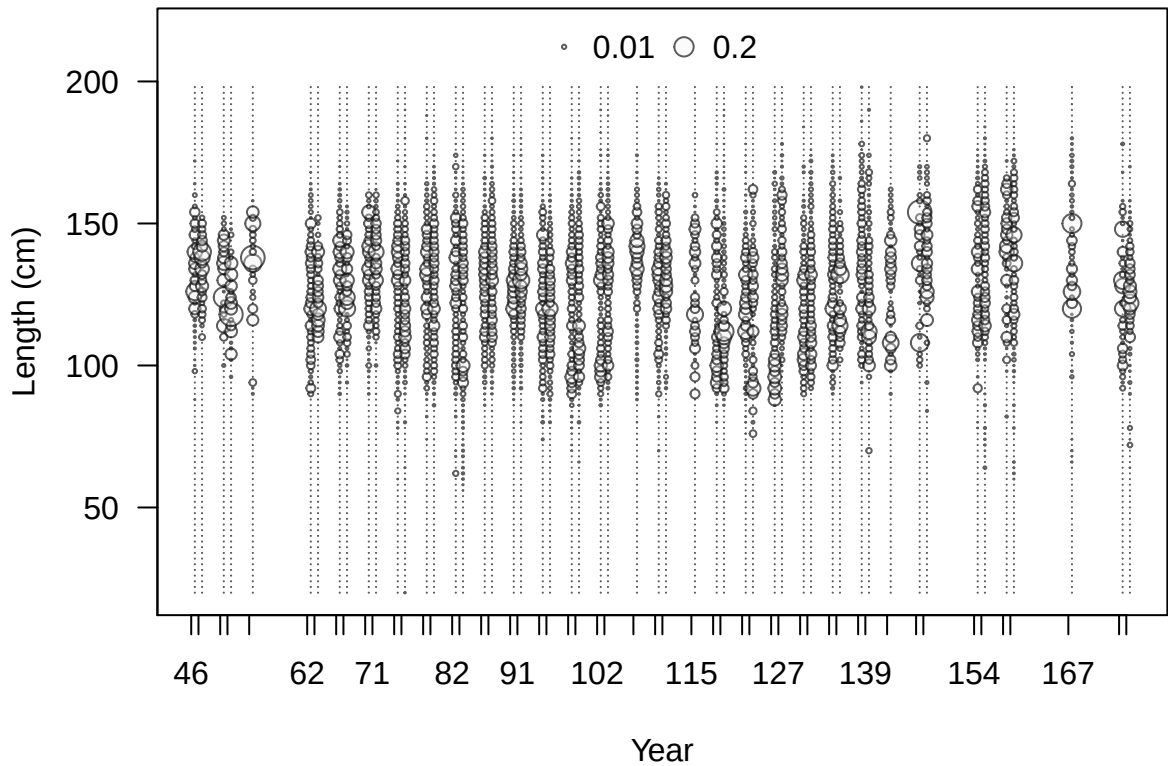




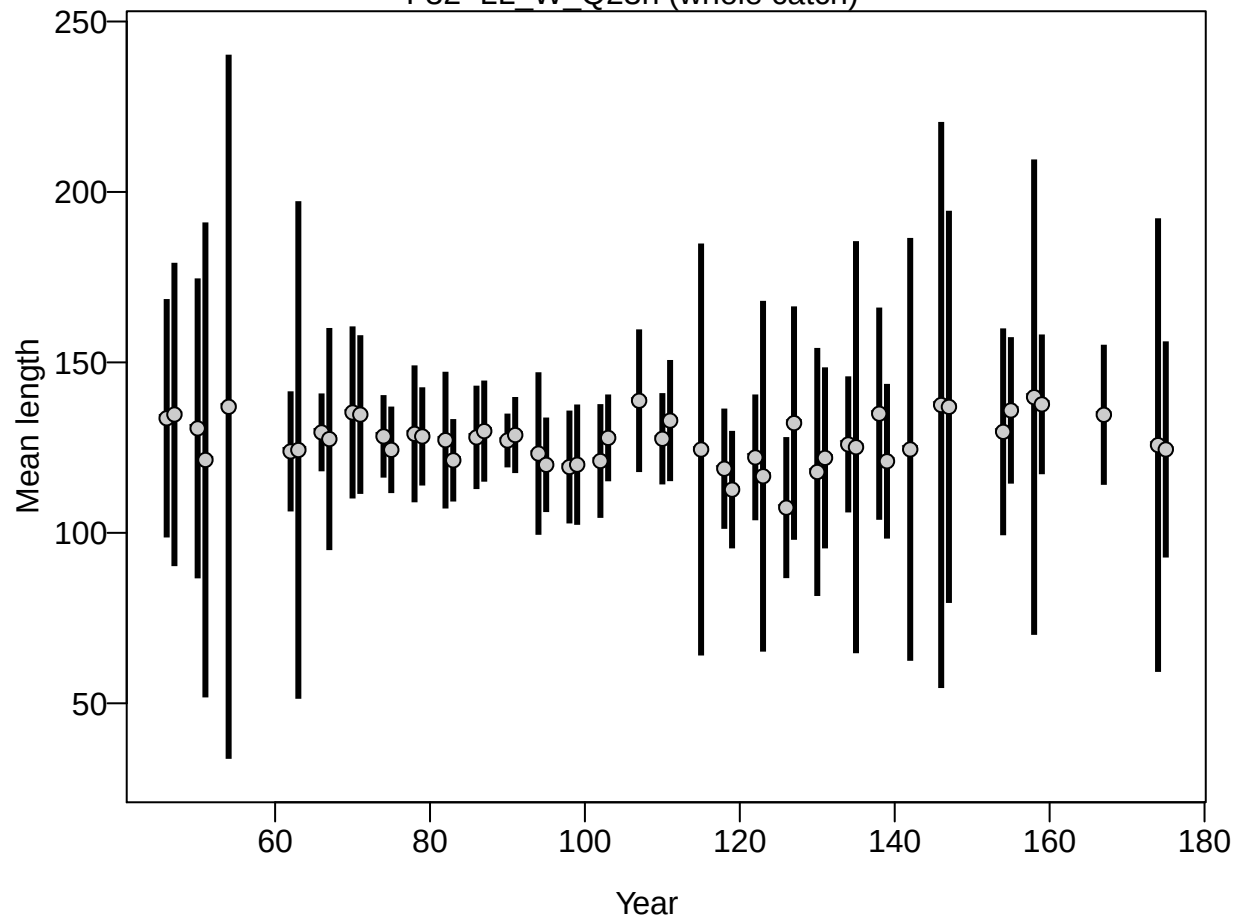
Proportion



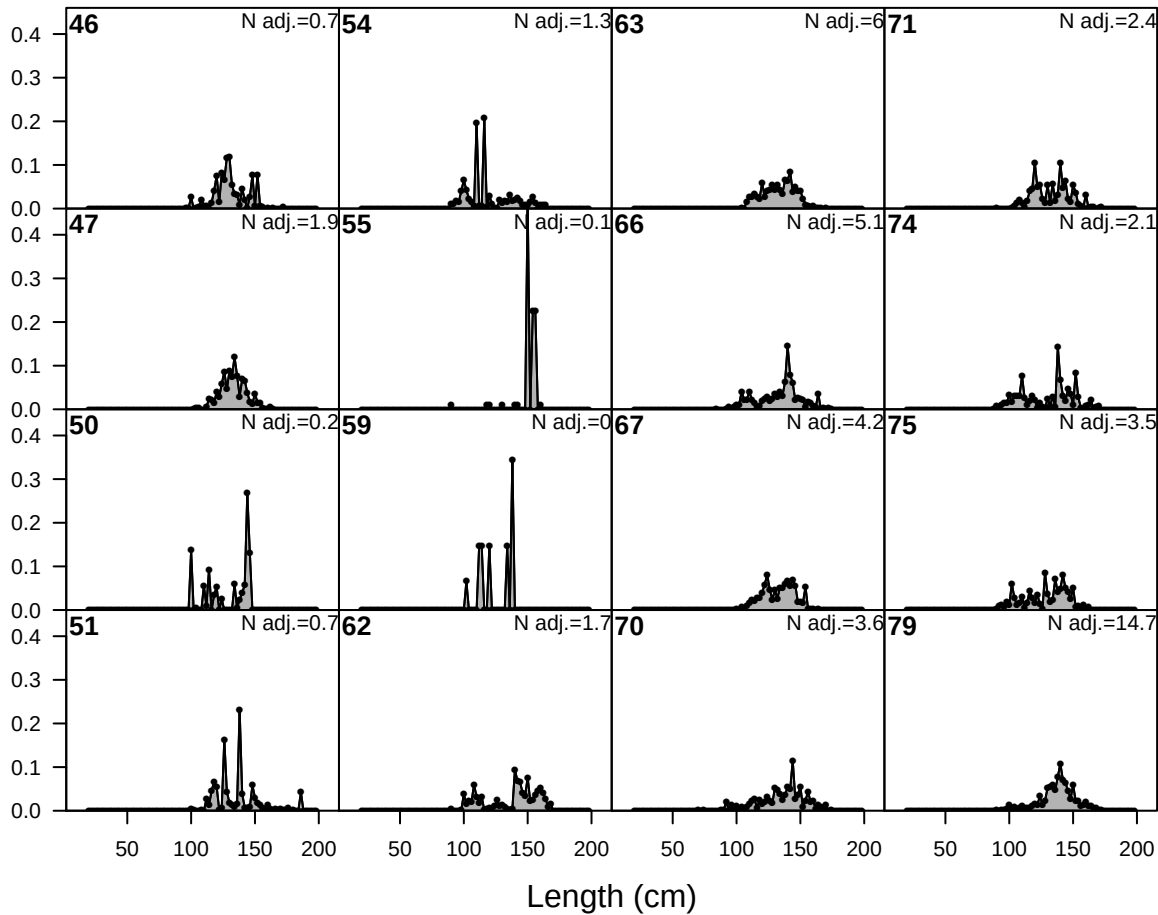
Length (cm)



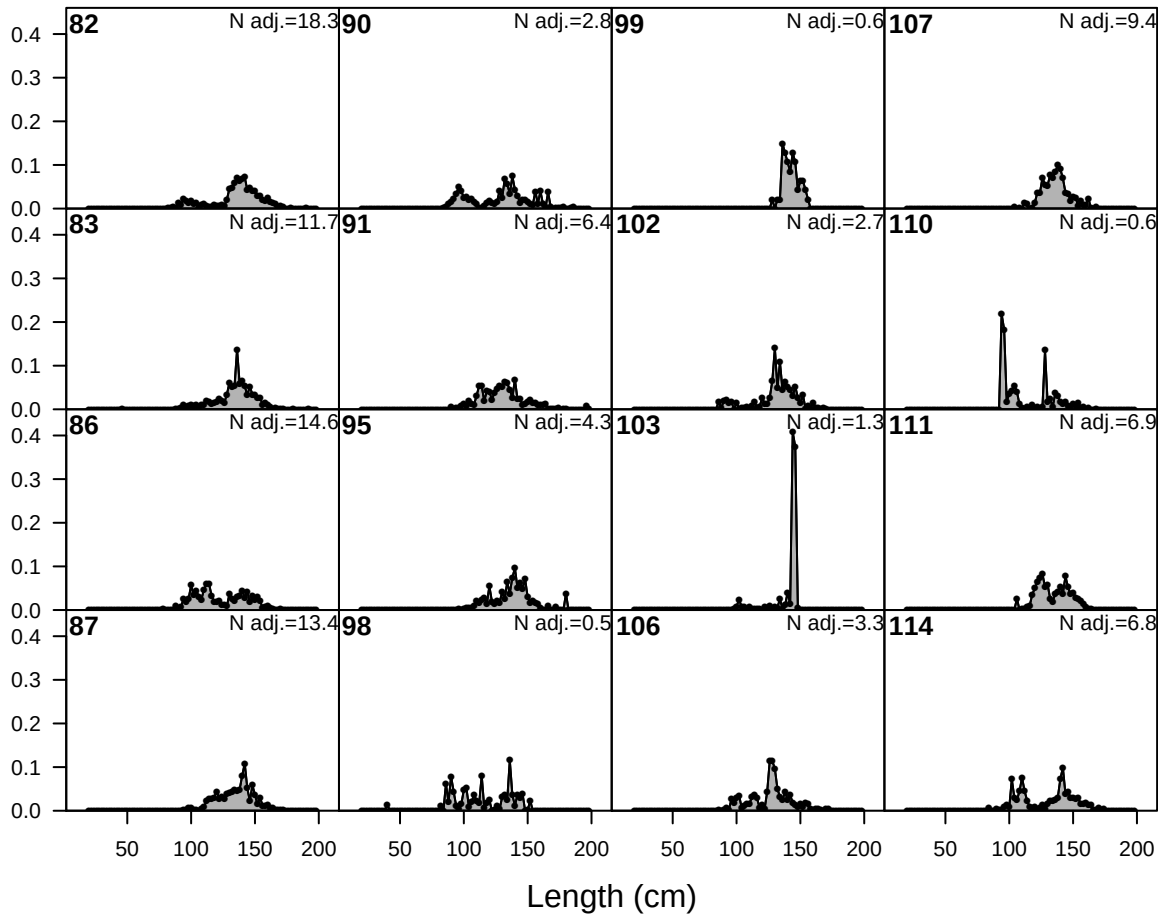
F32-LL_W_Q23n (whole catch)



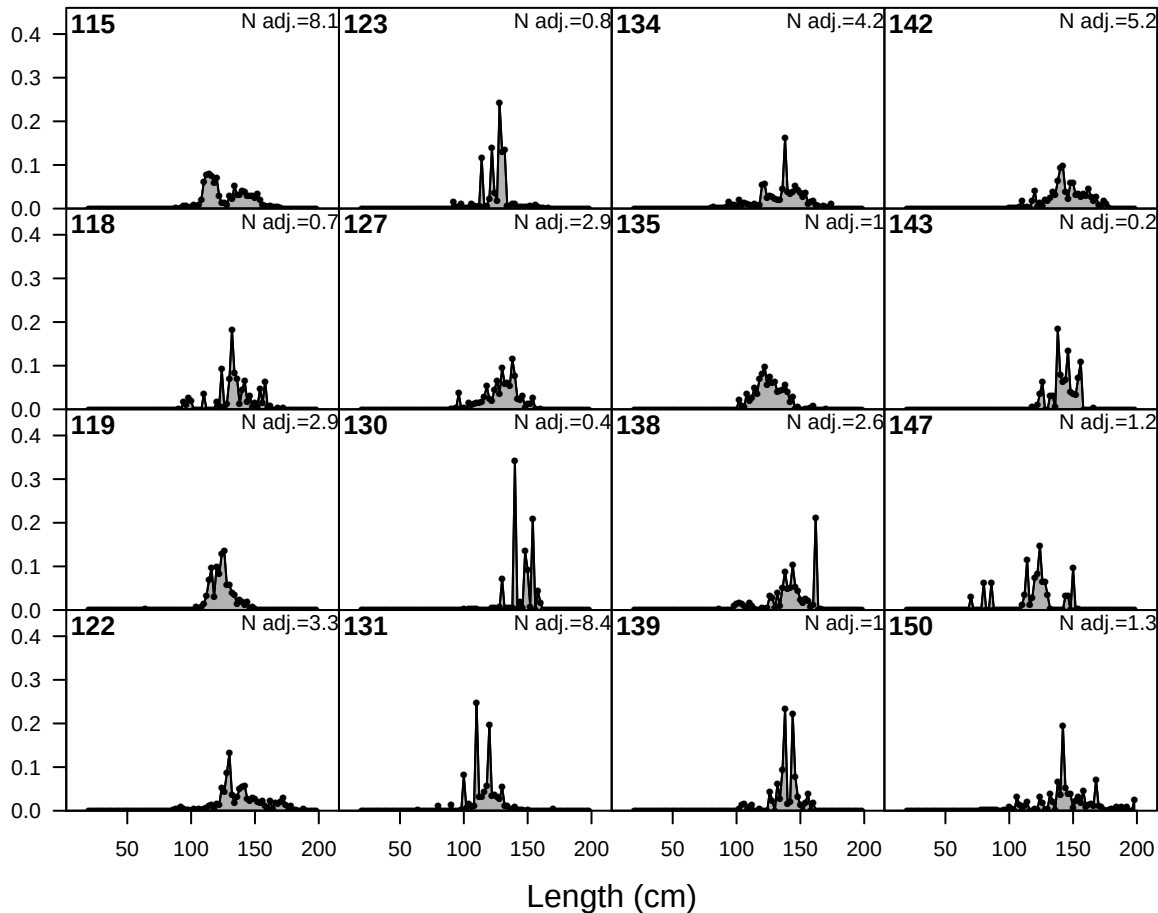
Proportion



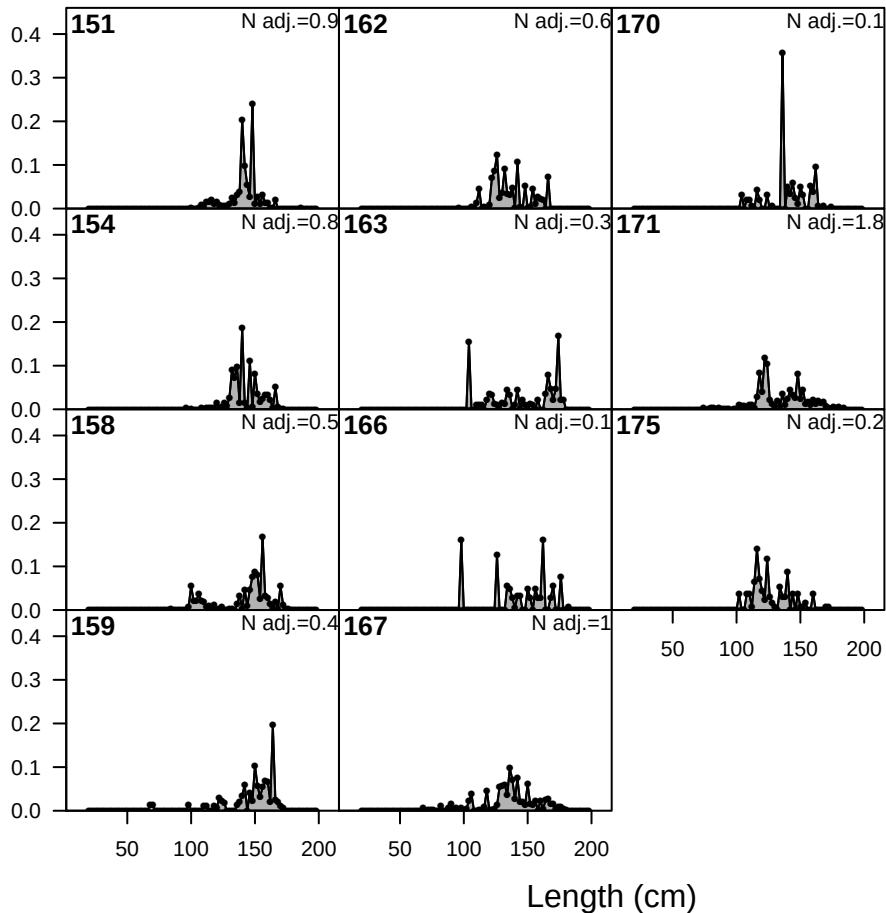
Proportion

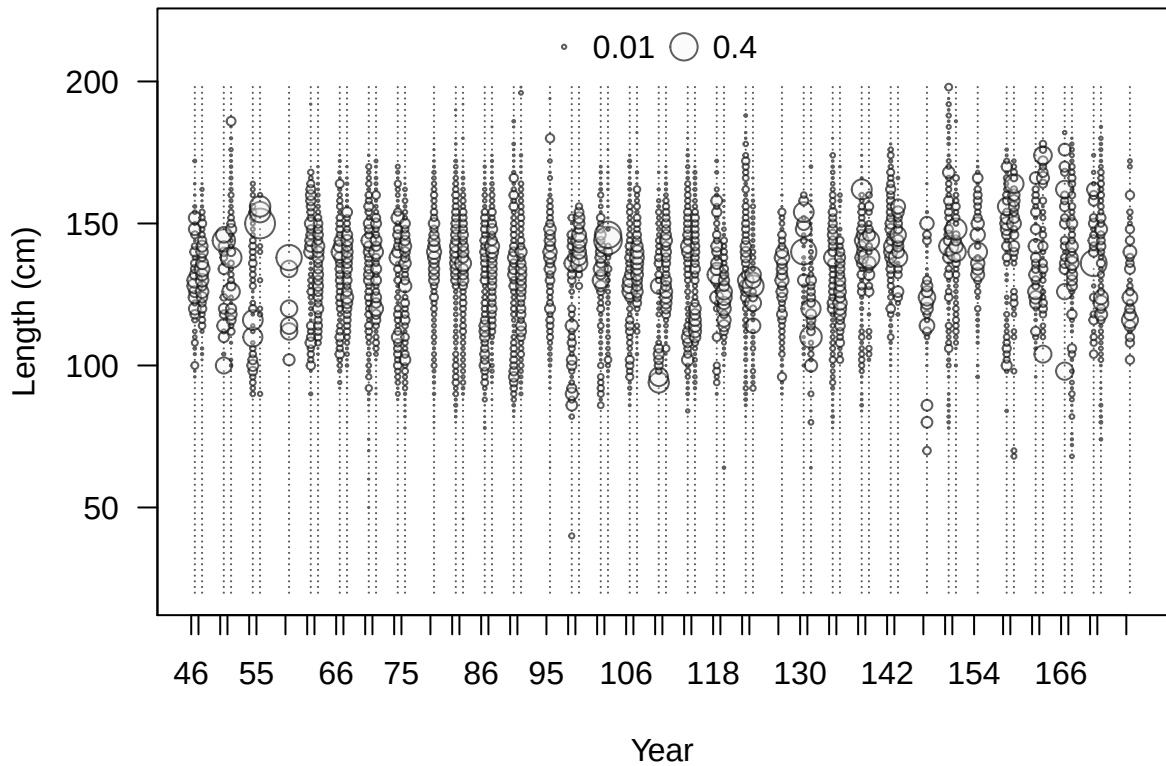


Proportion

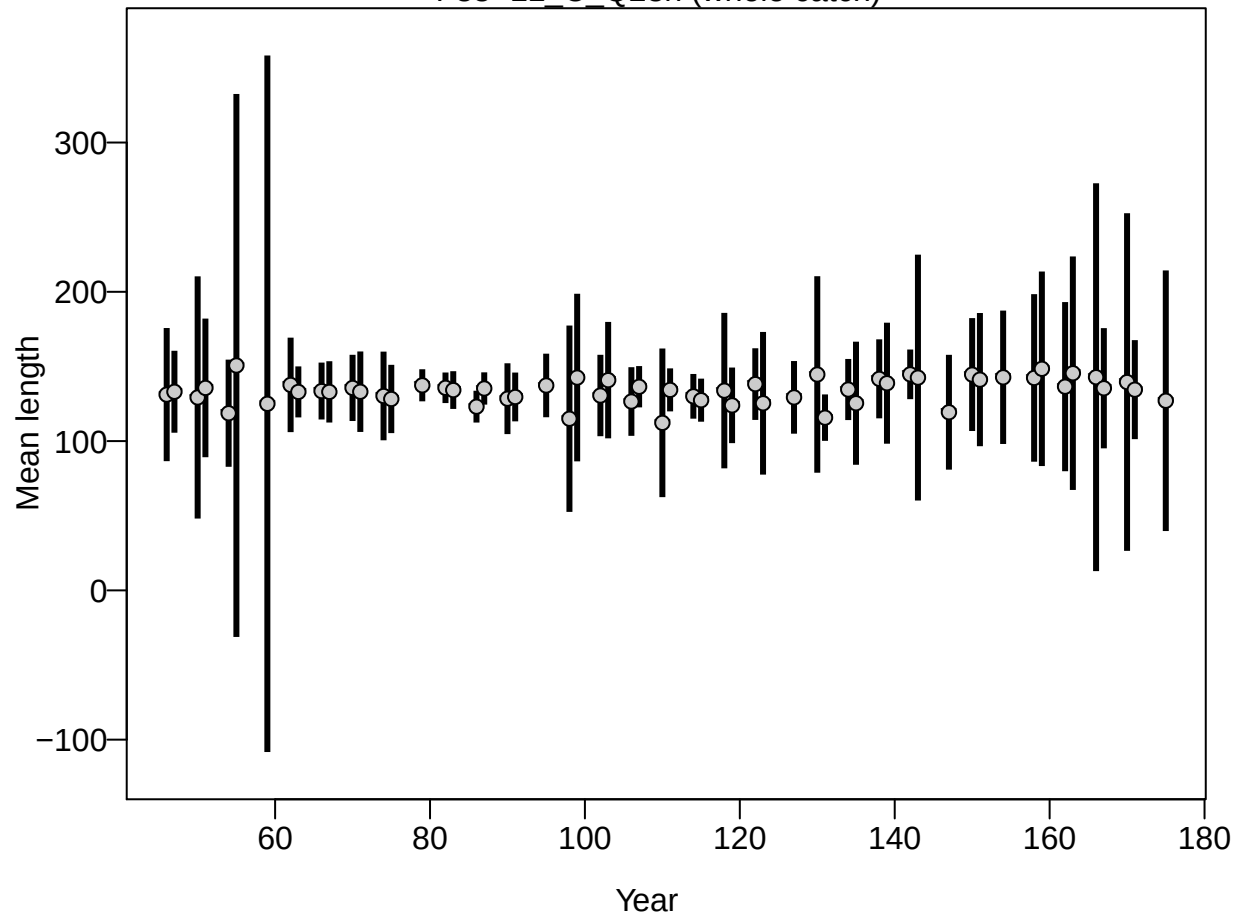


Proportion

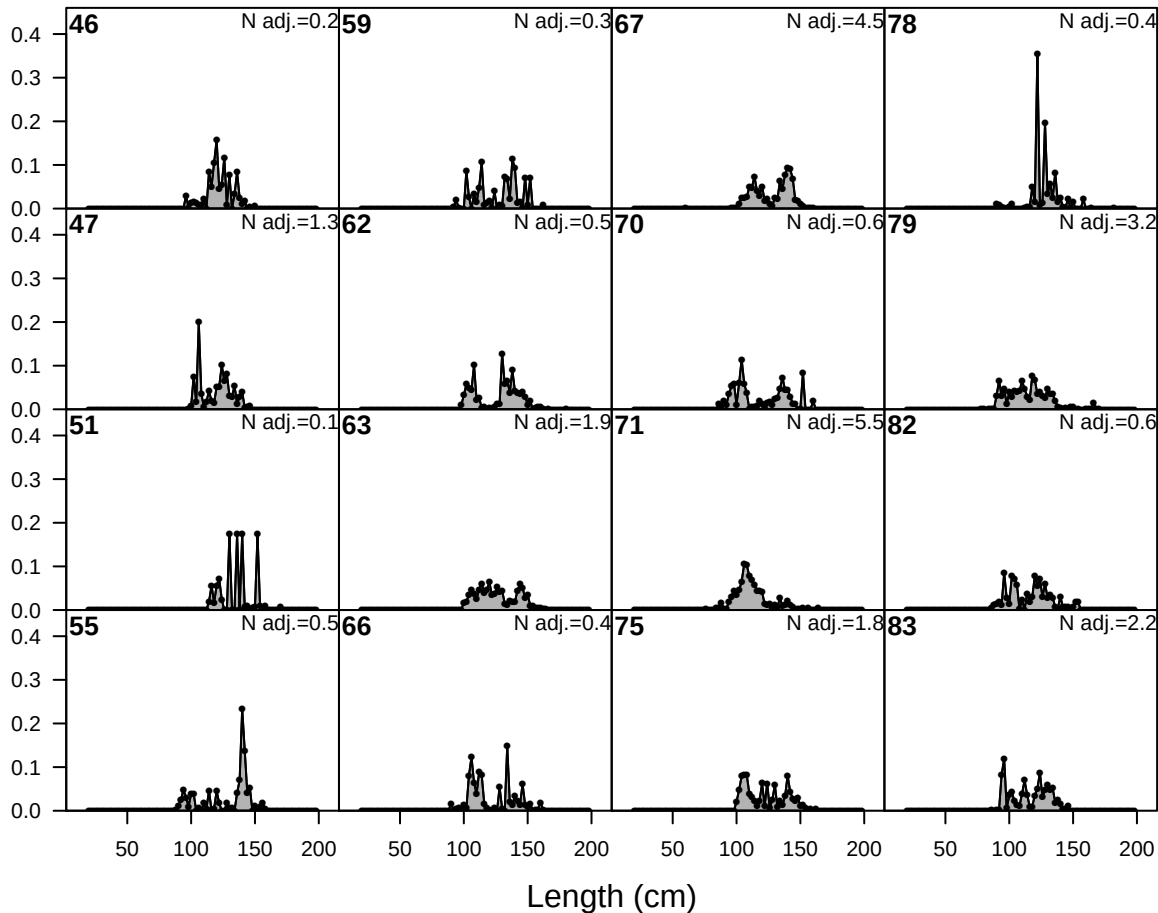




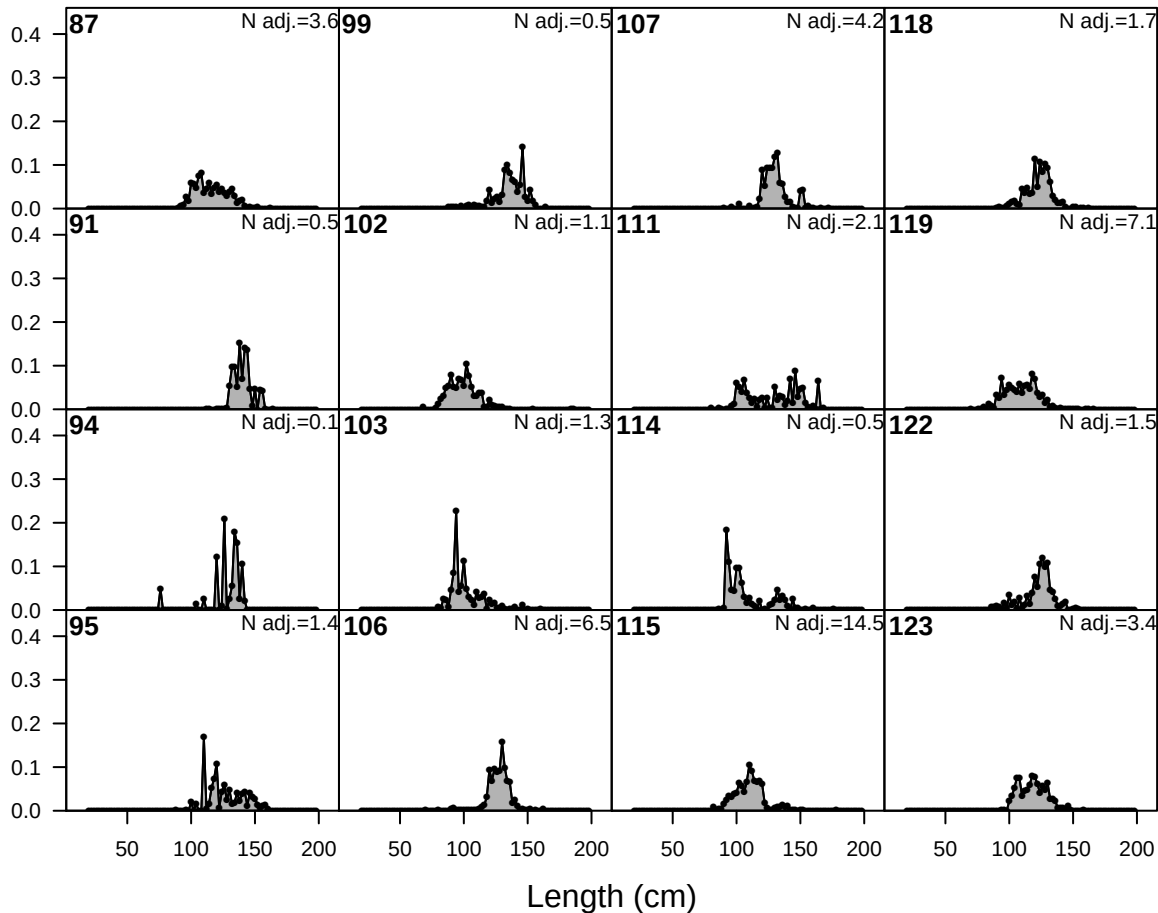
F33-LL_C_Q23n (whole catch)



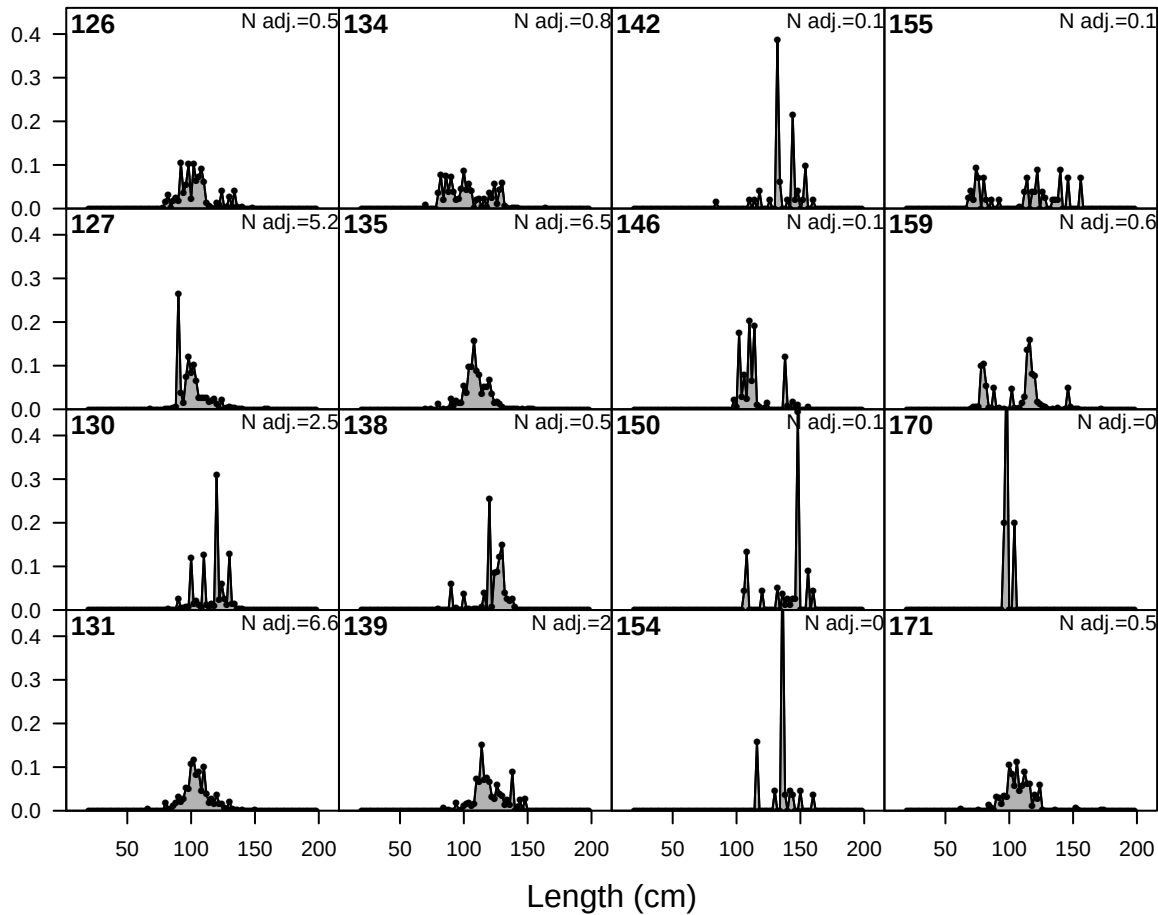
Proportion

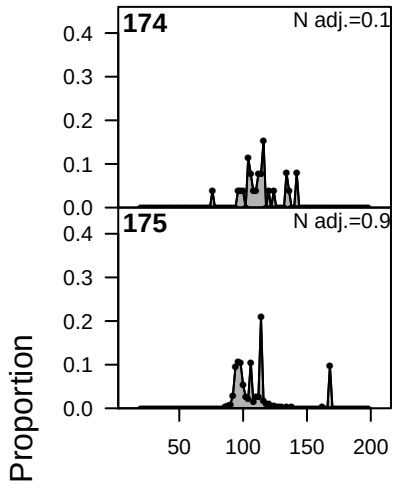


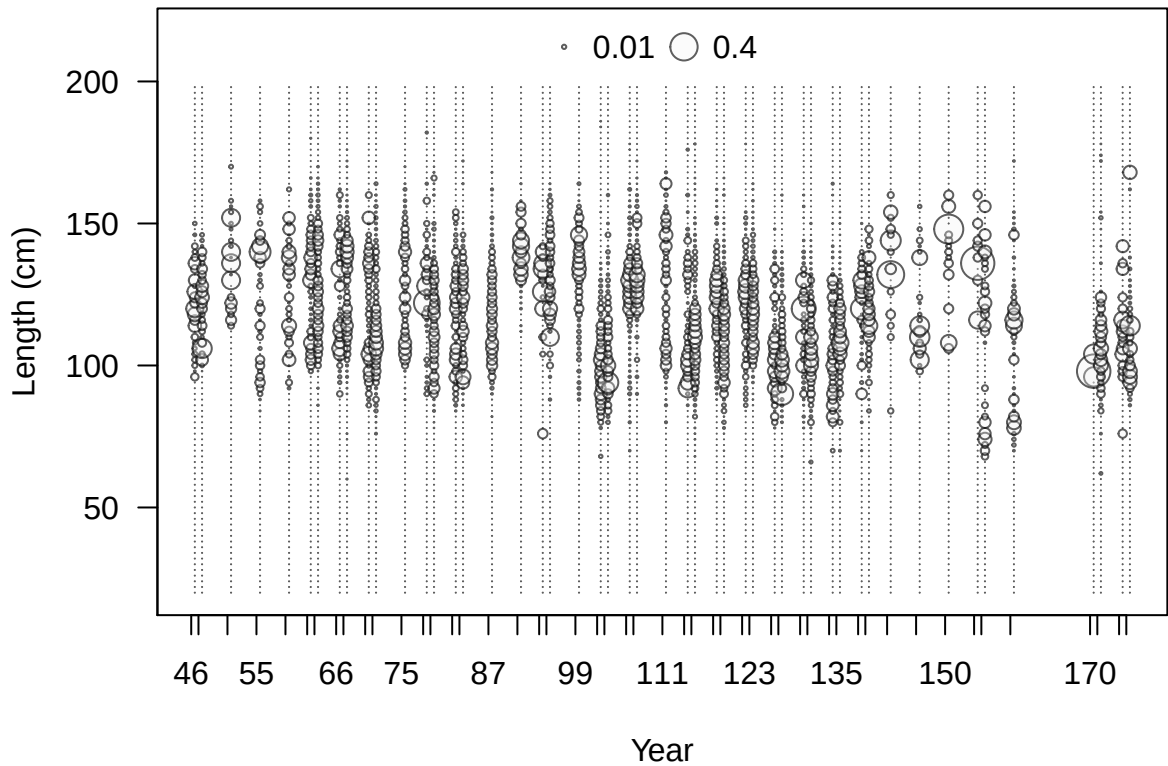
Proportion



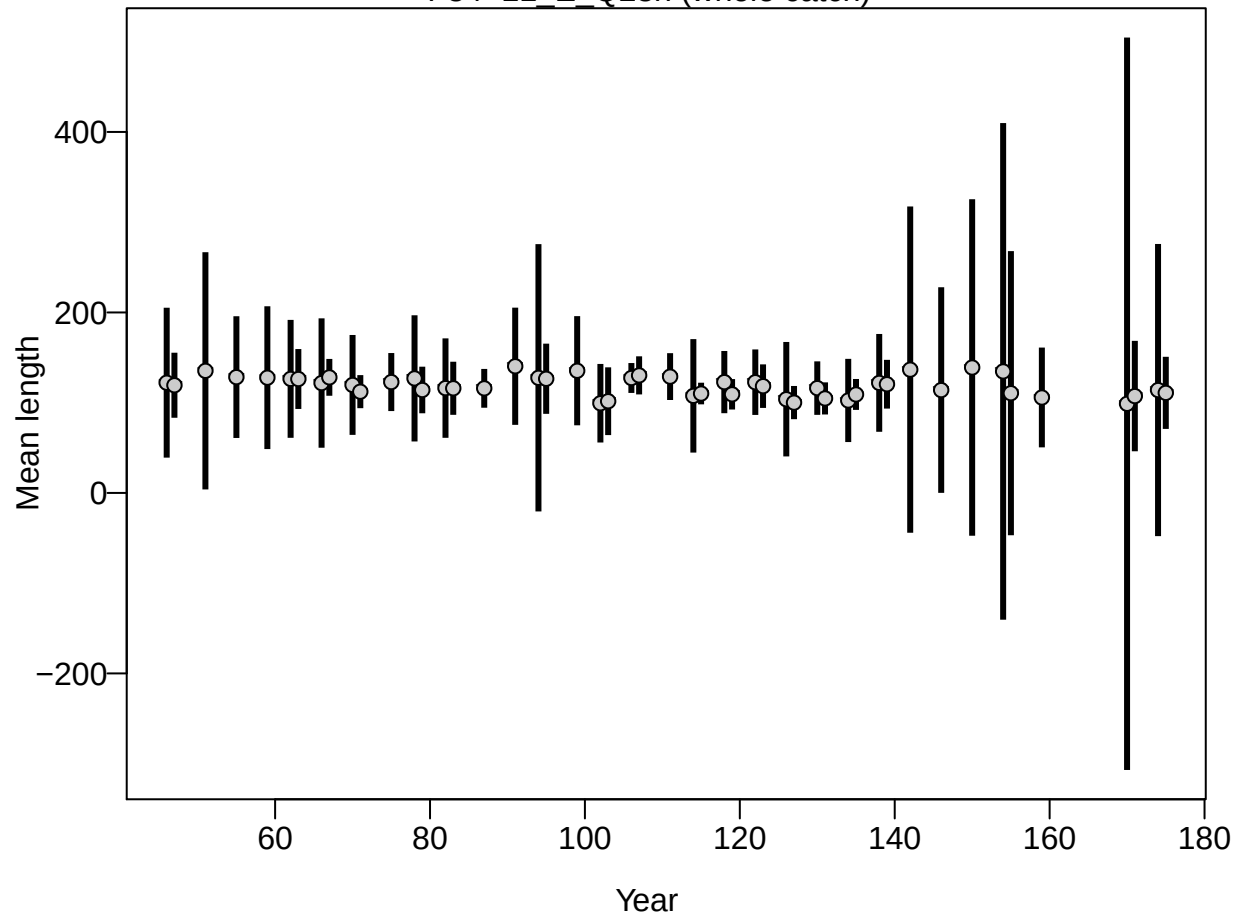
Proportion



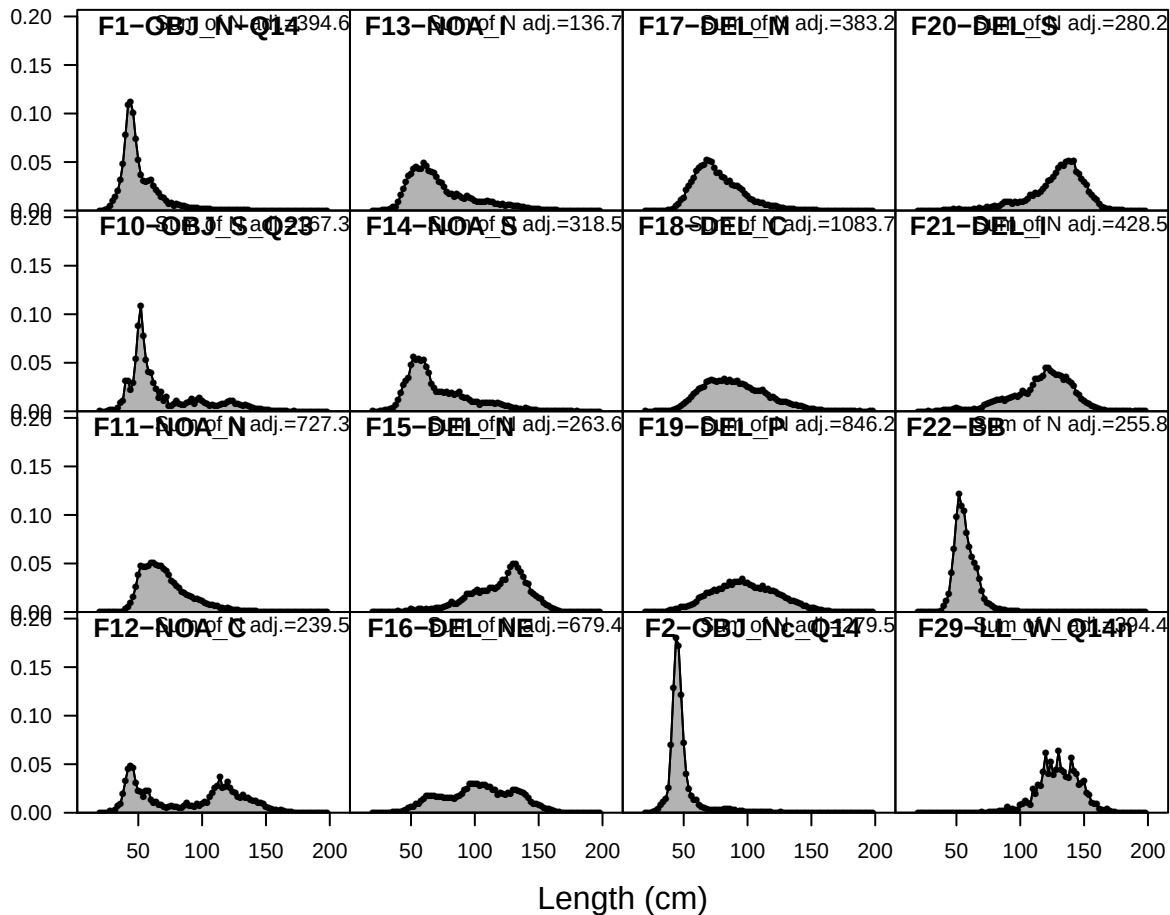




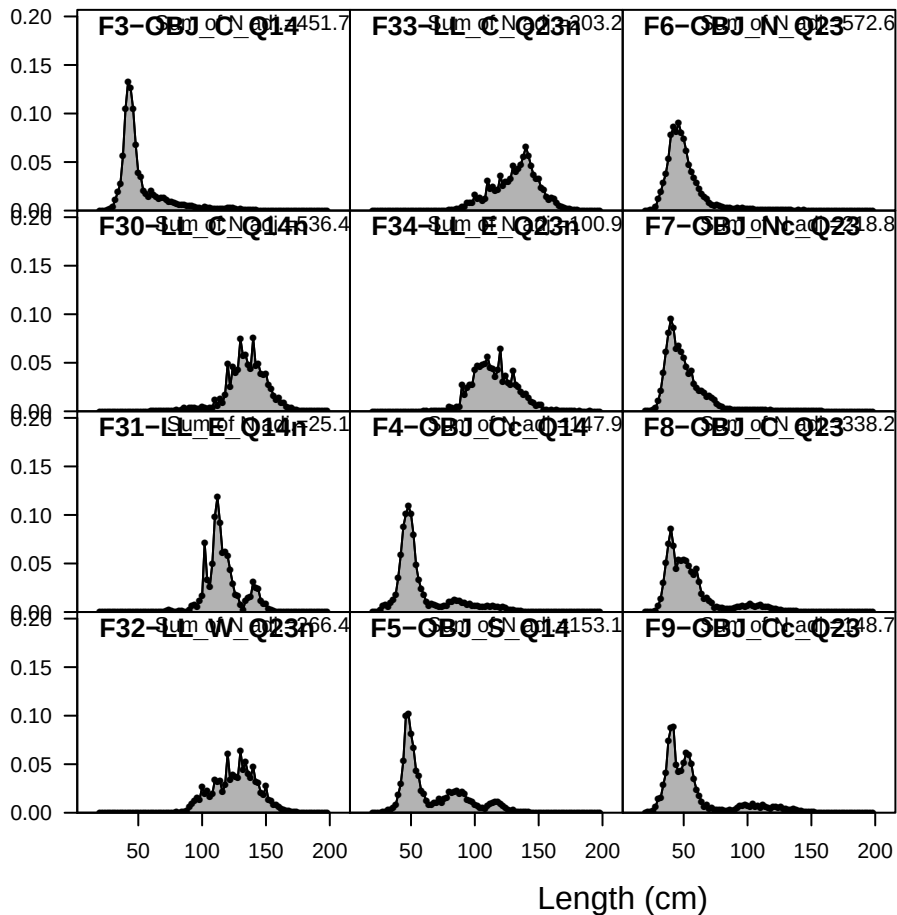
F34-LL E_Q23n (whole catch)

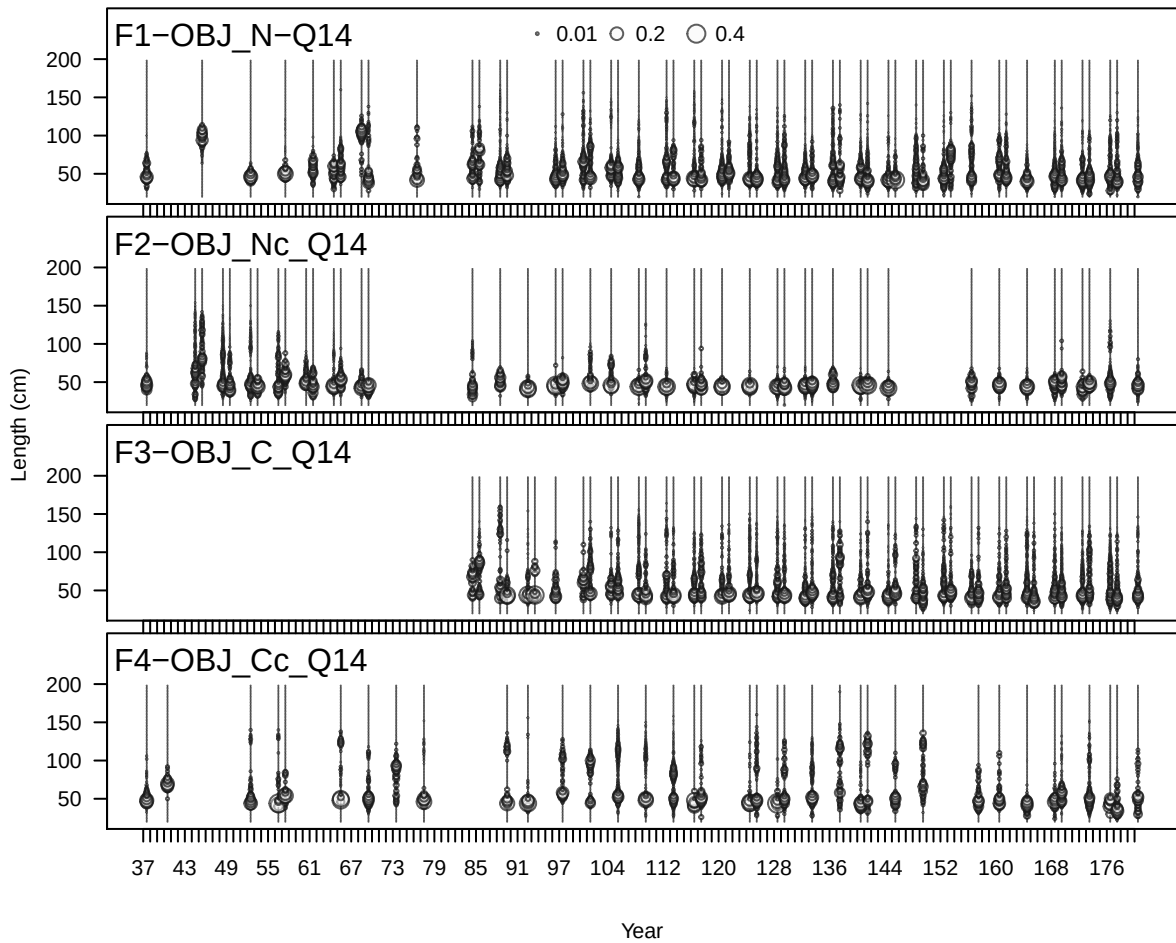


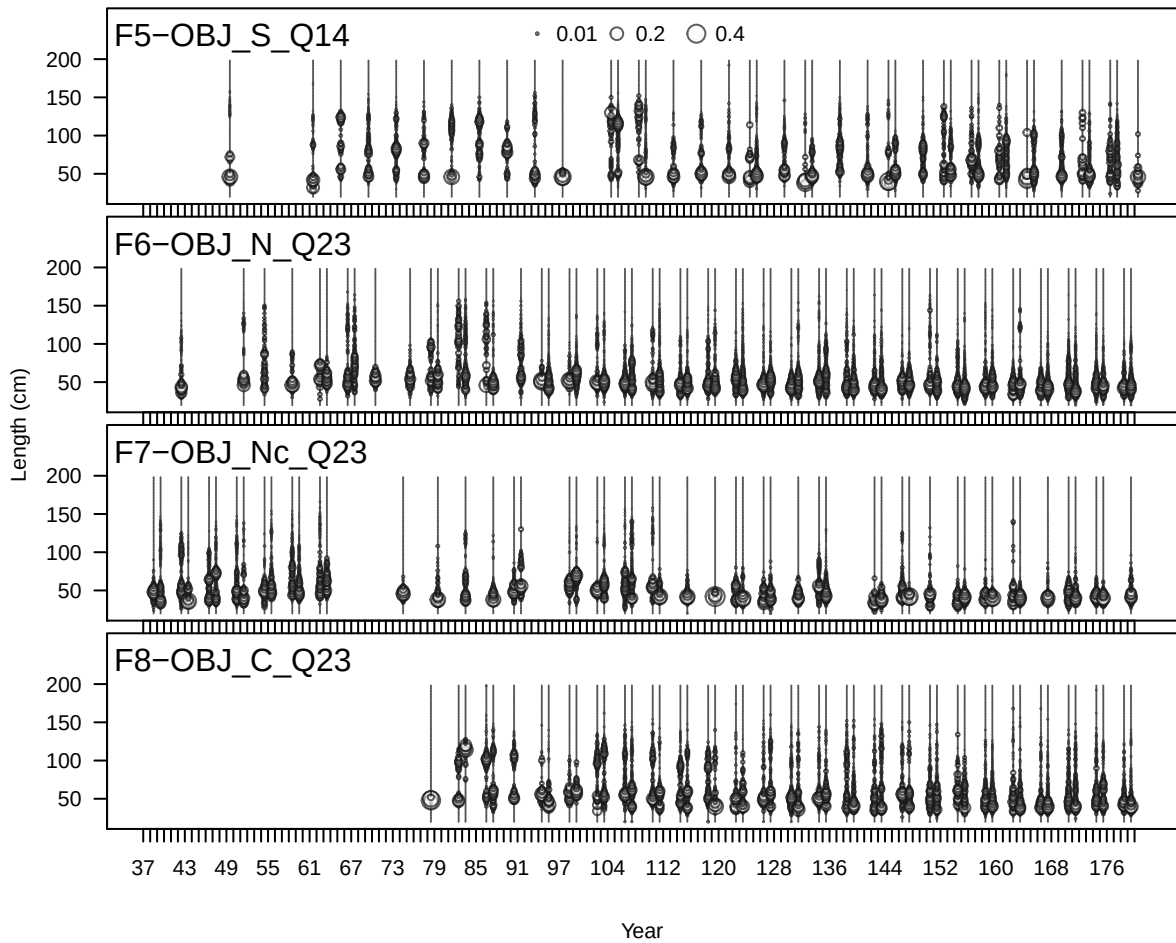
Proportion

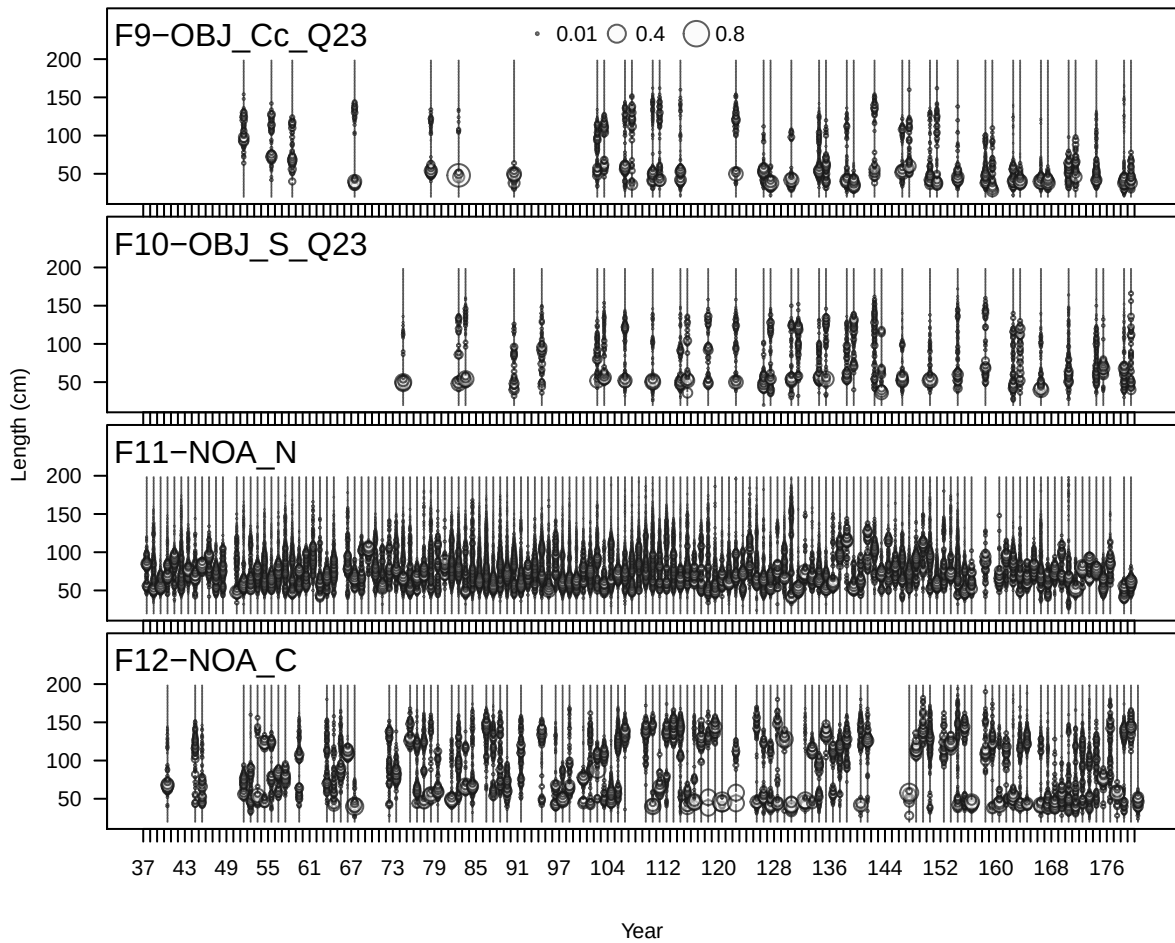


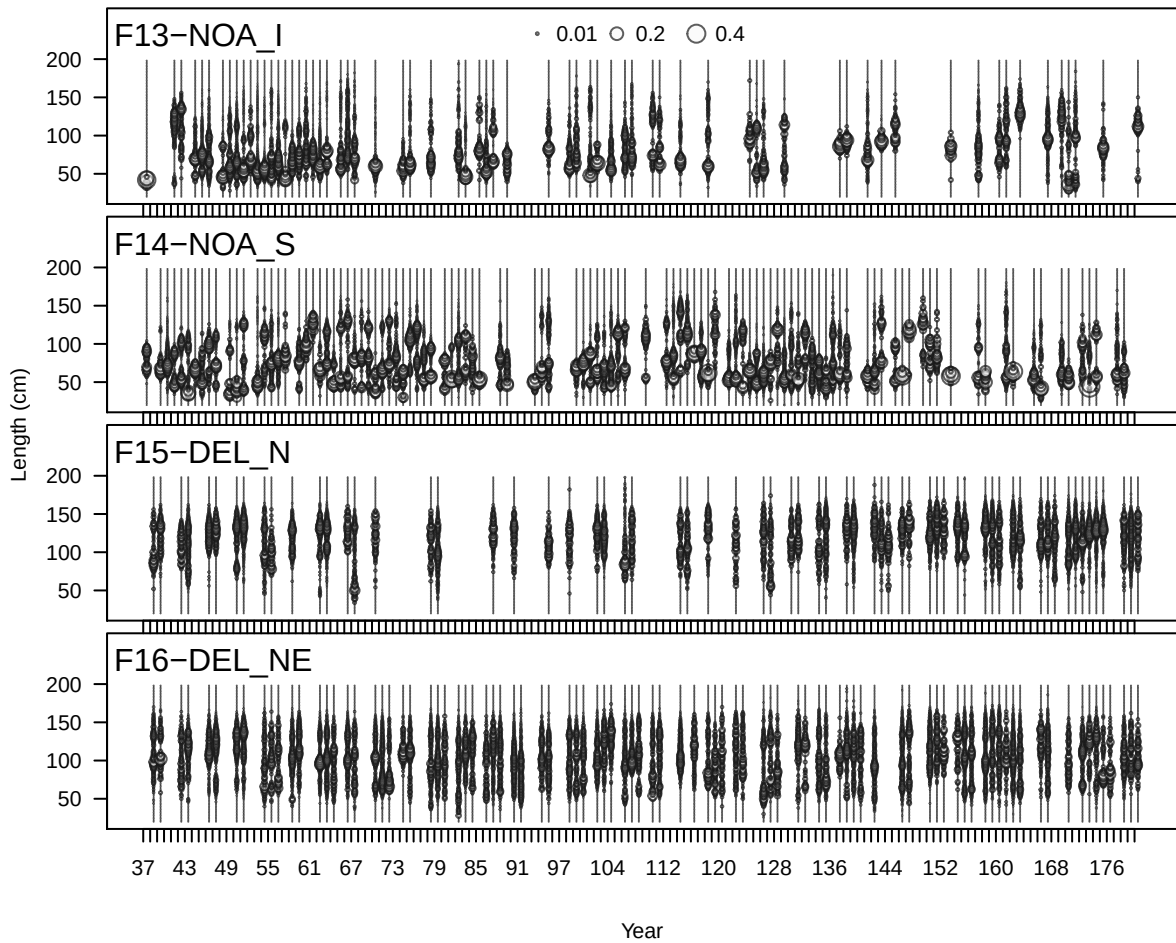
Proportion

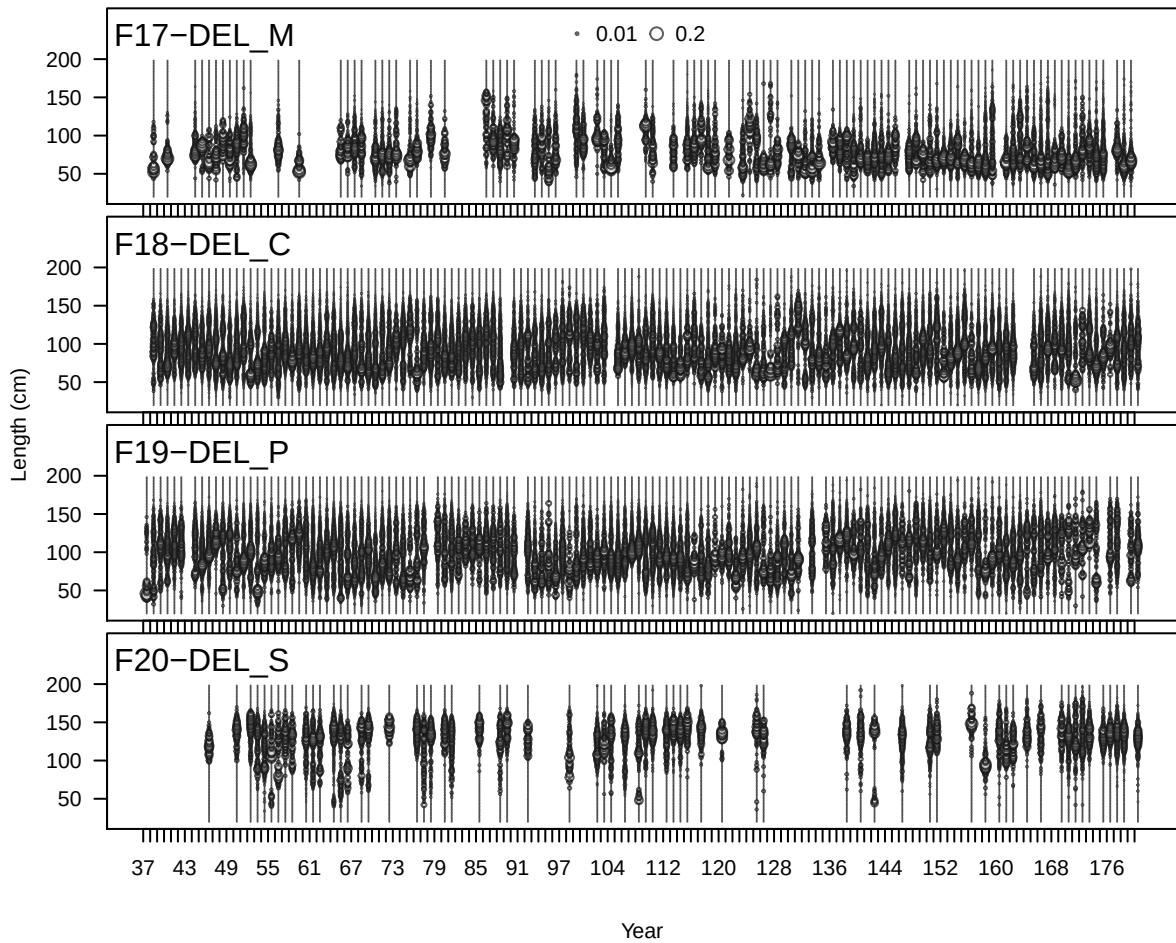


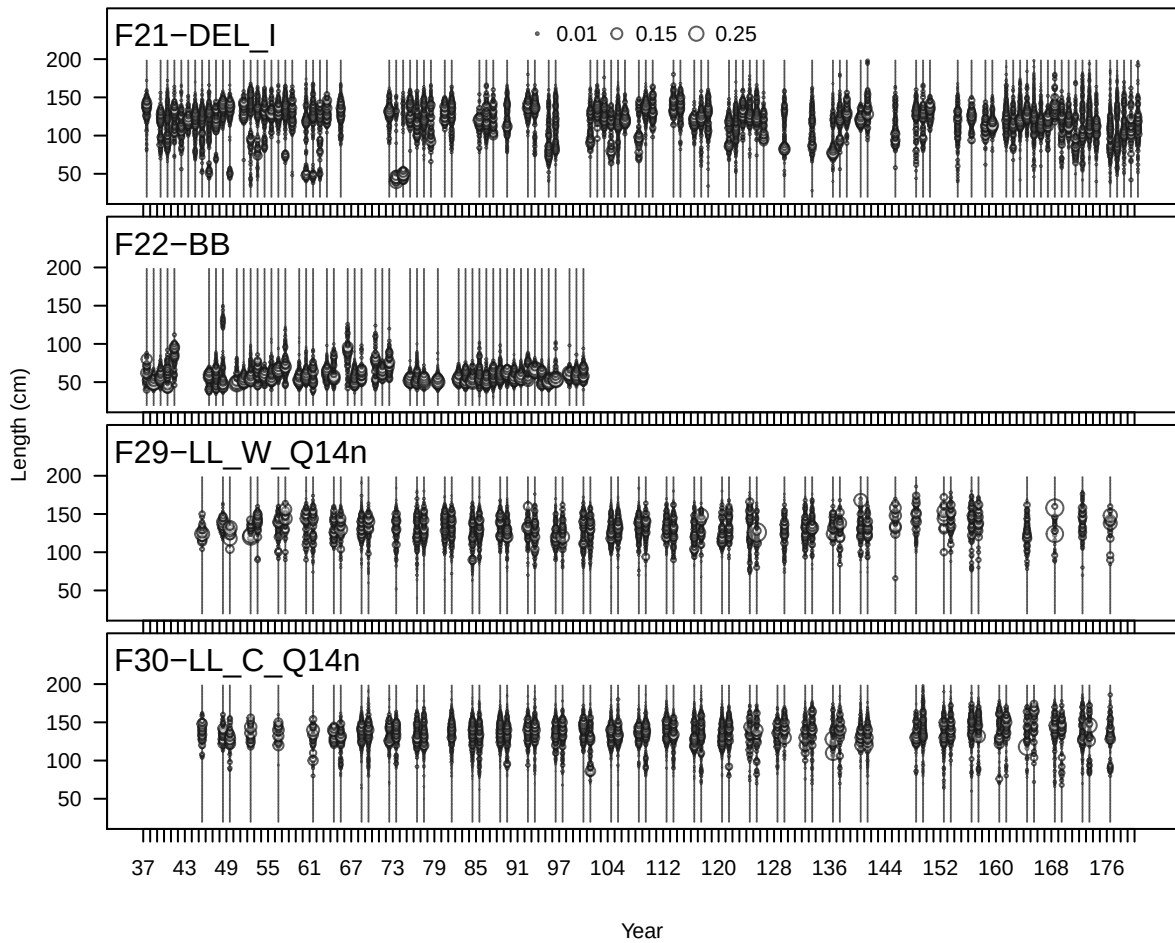


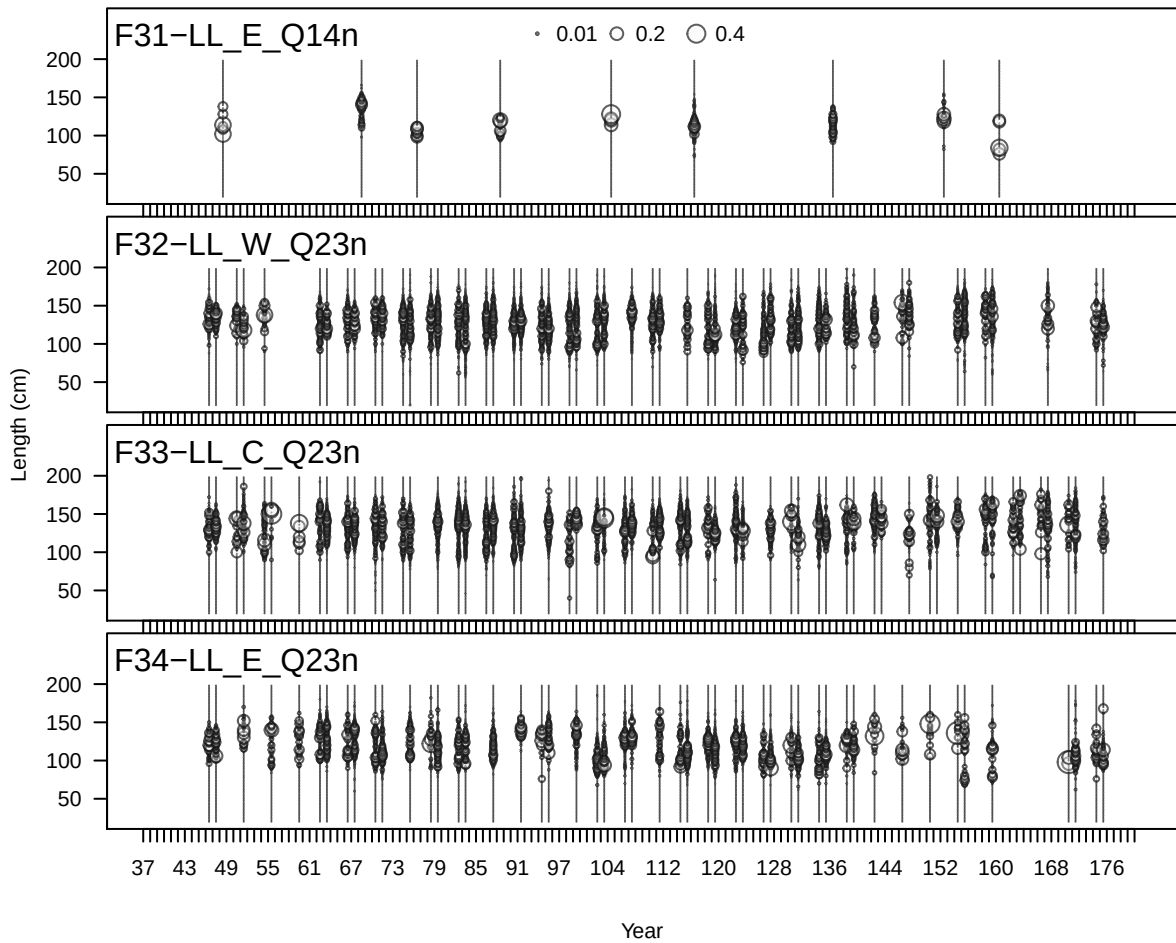


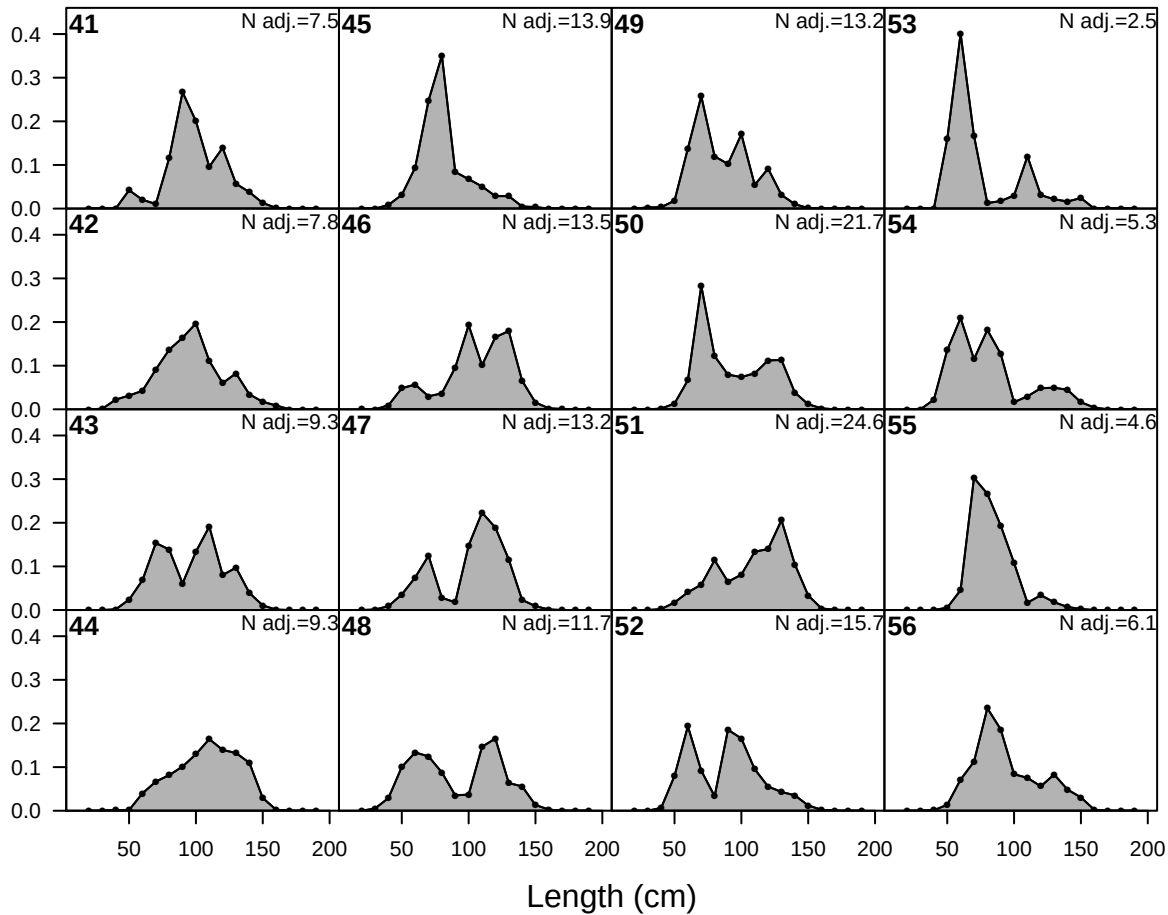


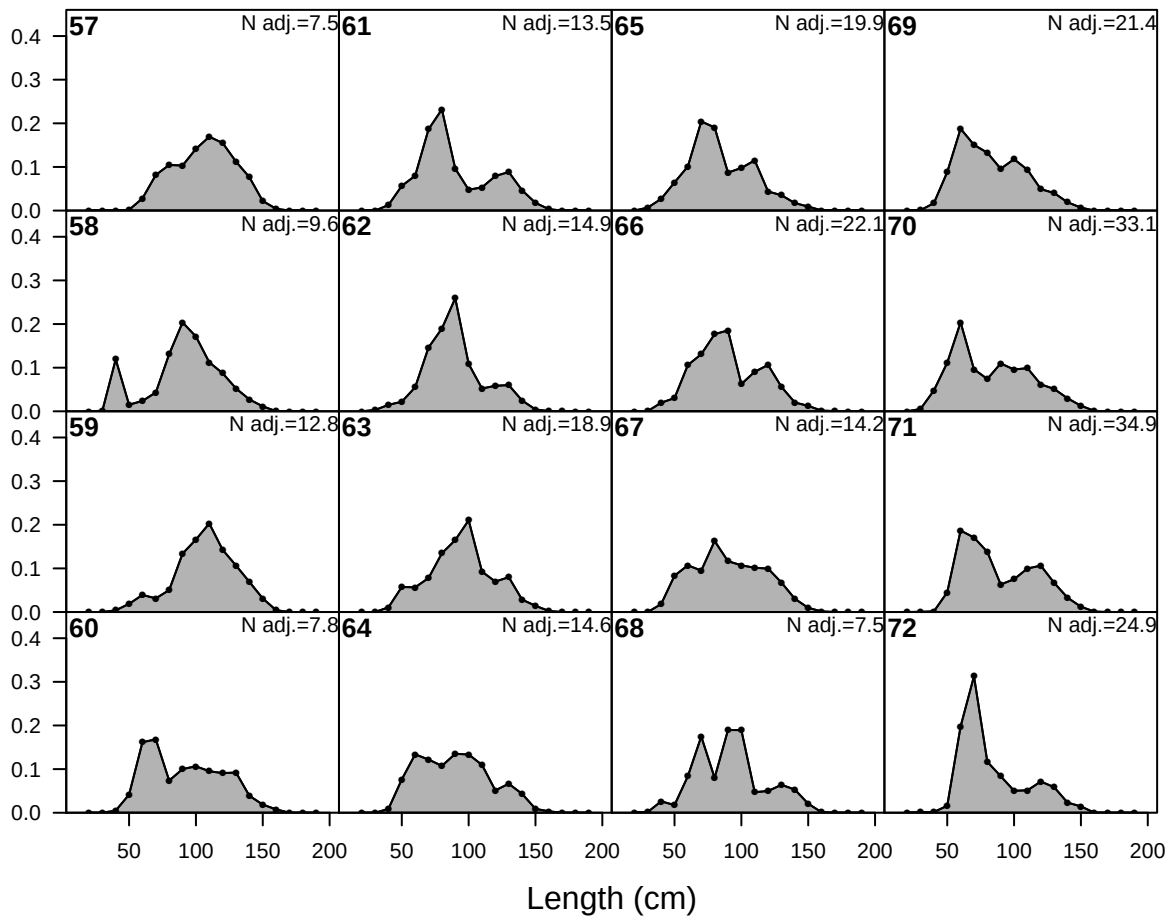


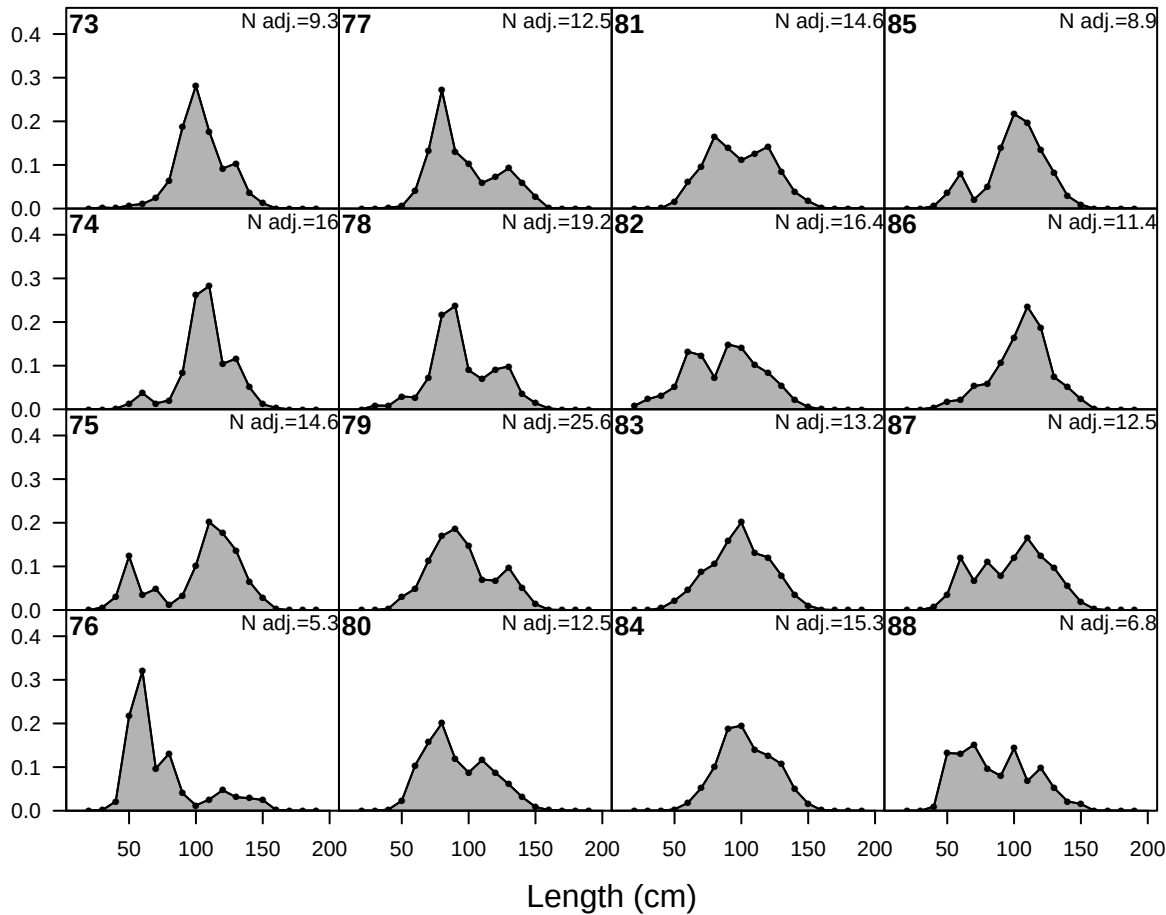


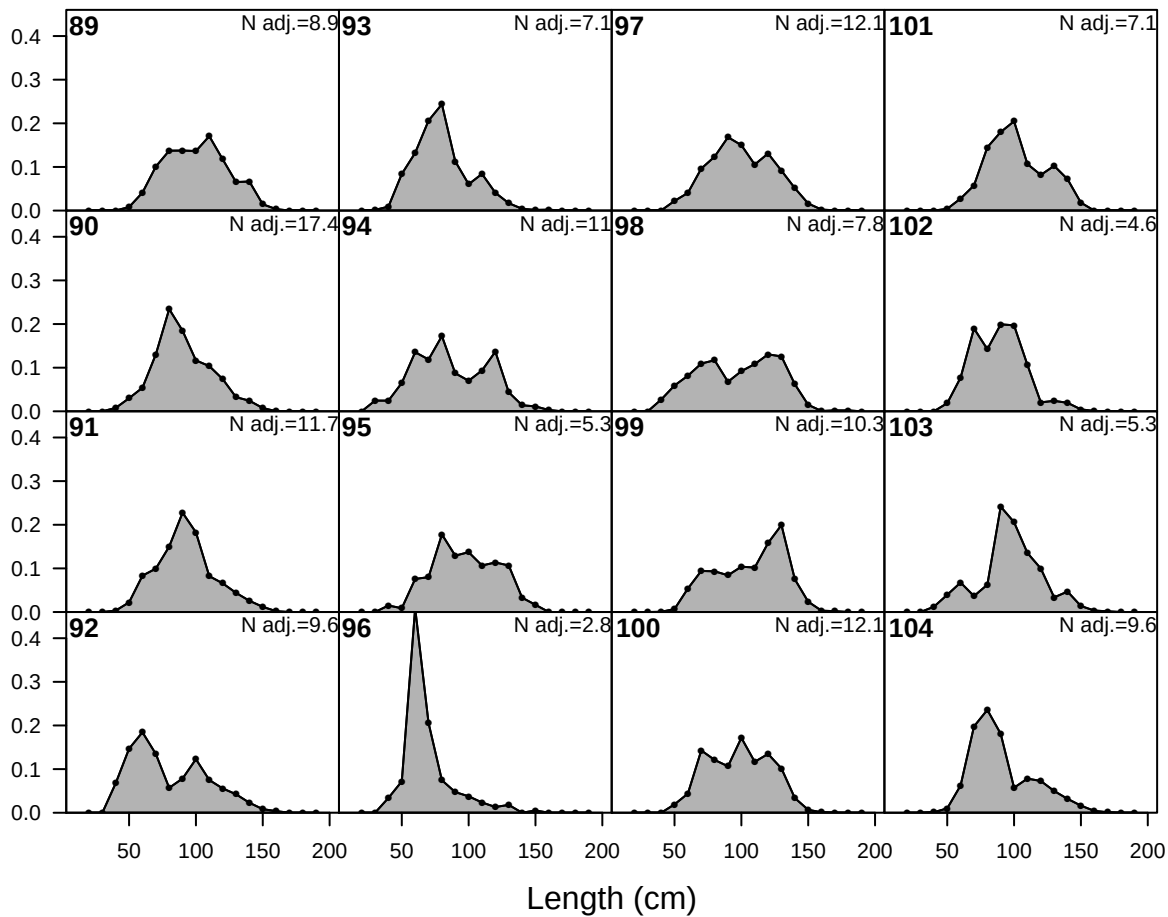


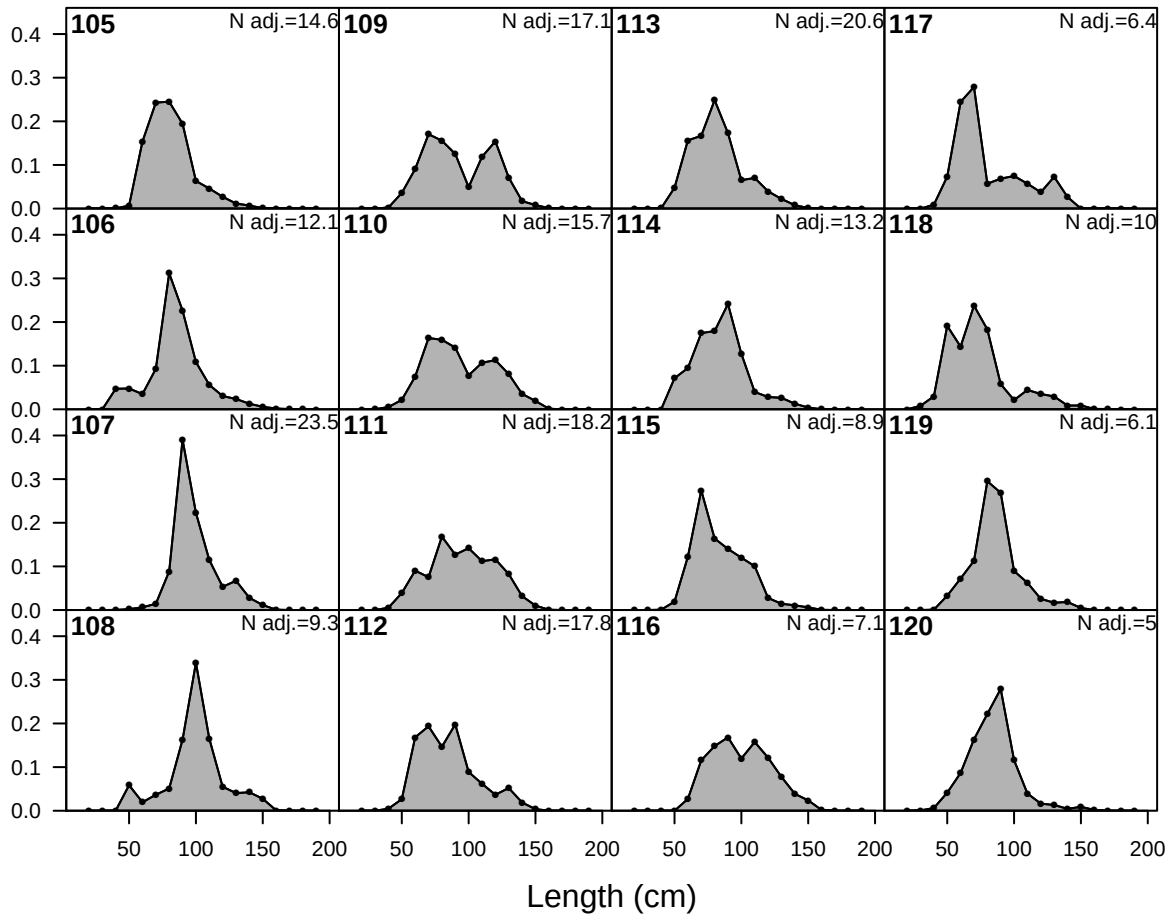


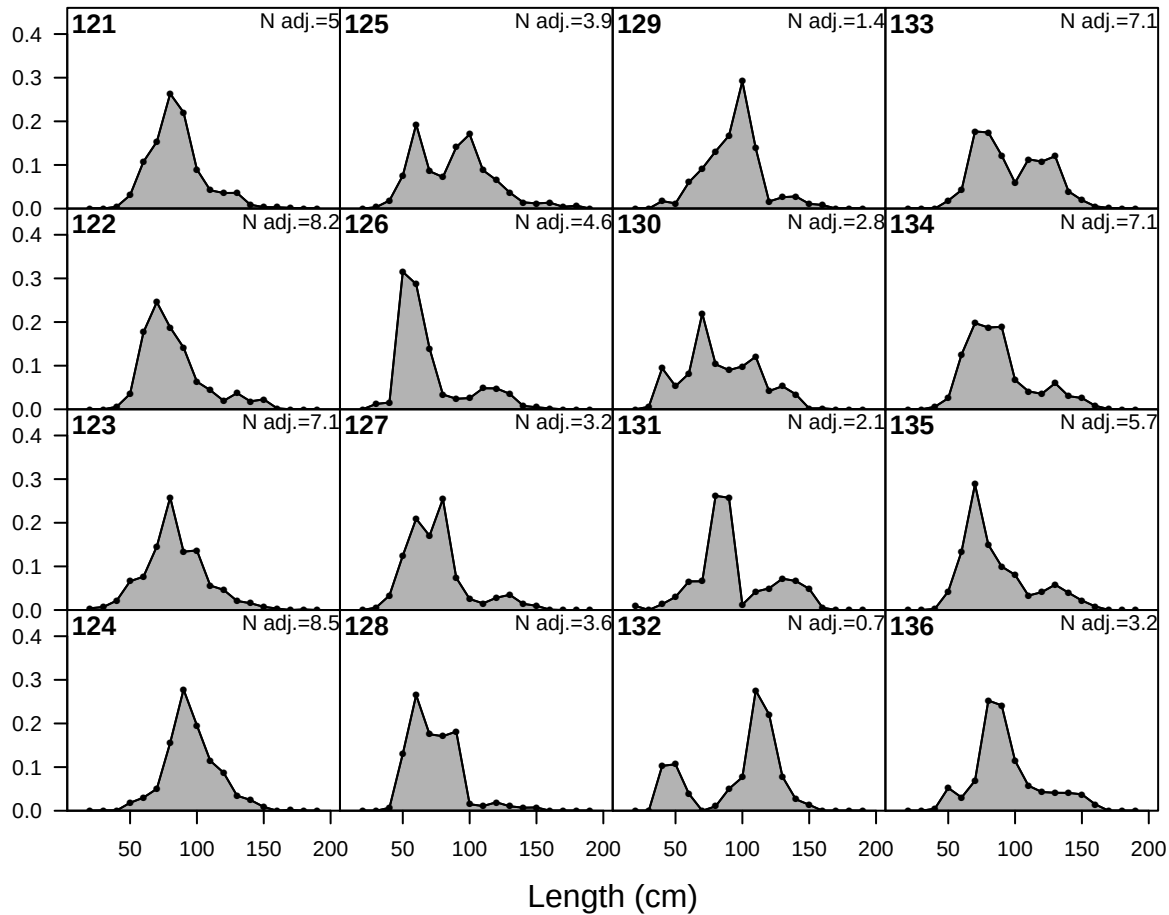


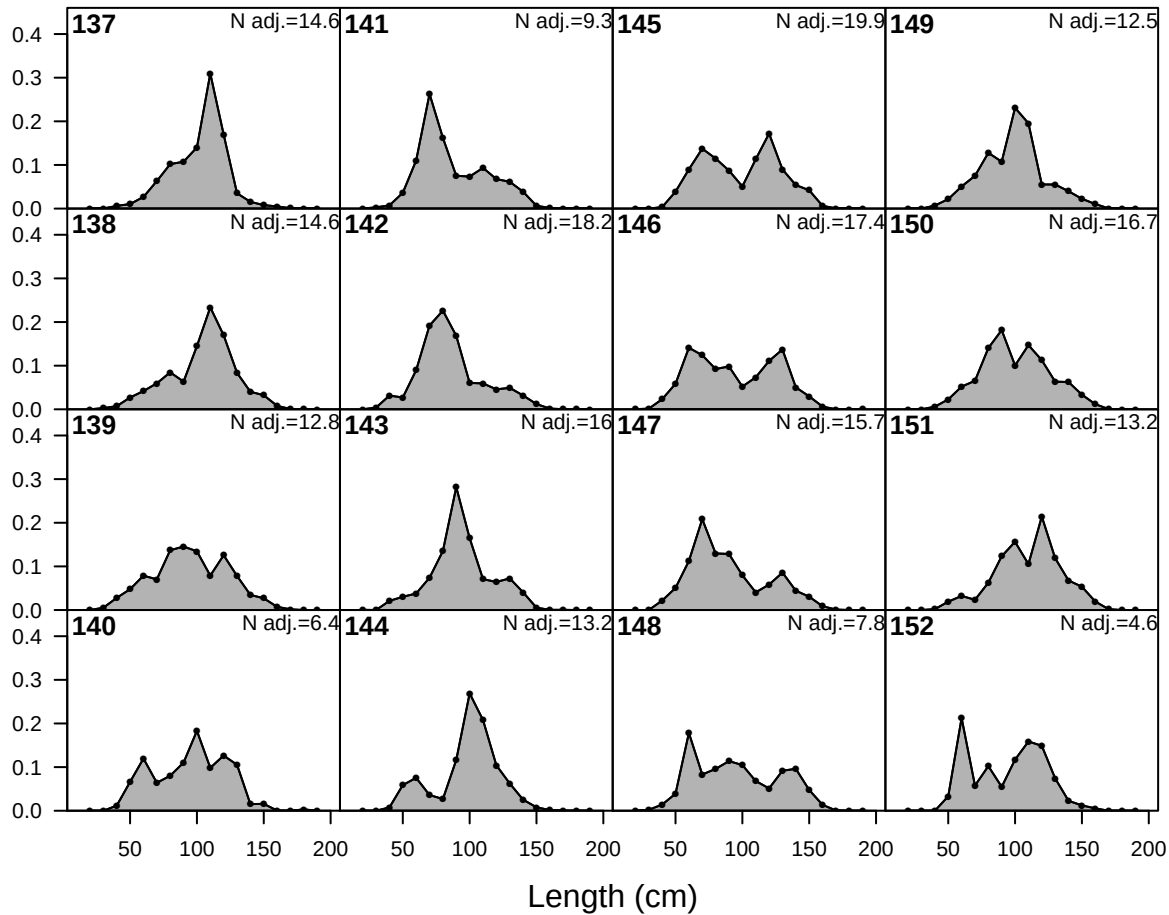


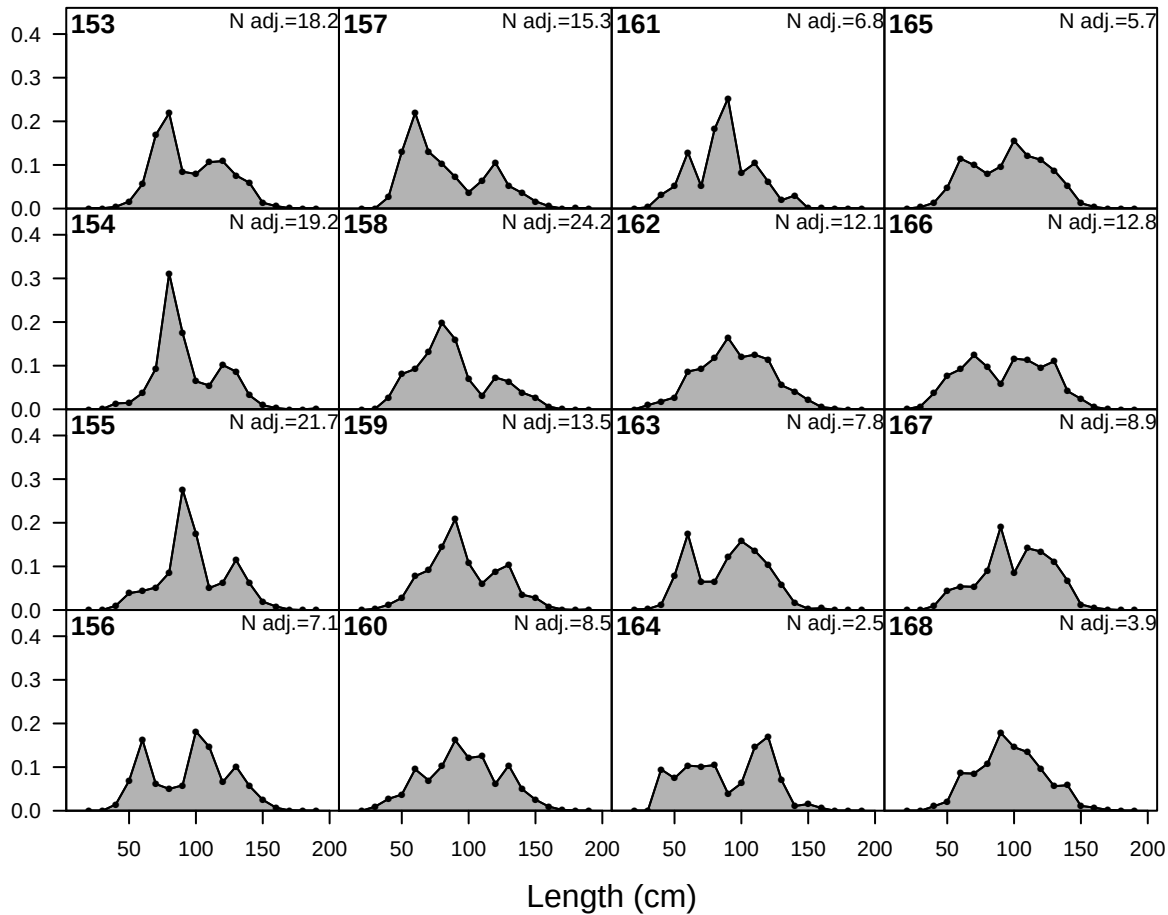


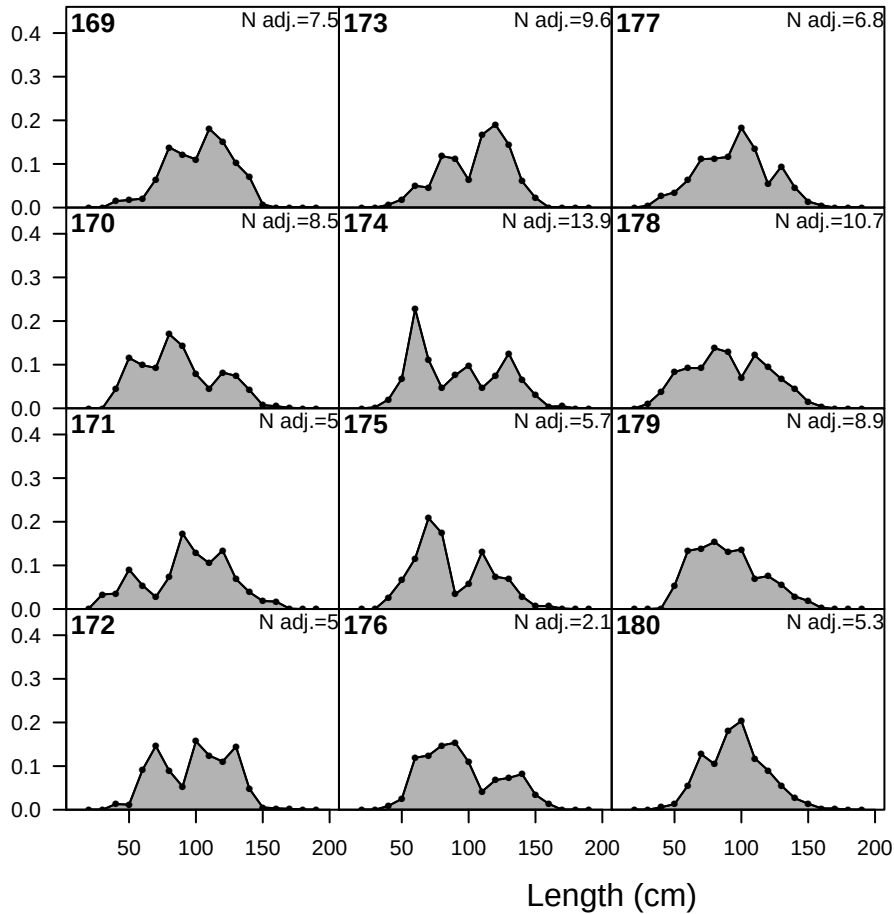


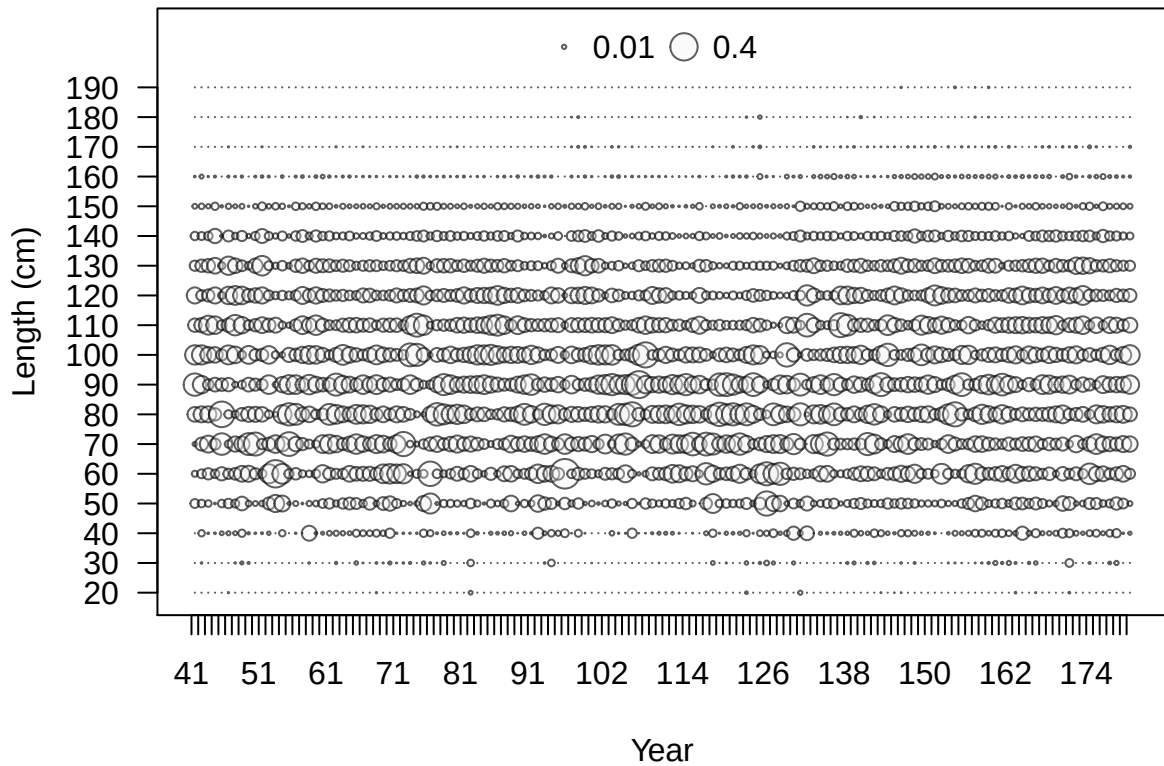




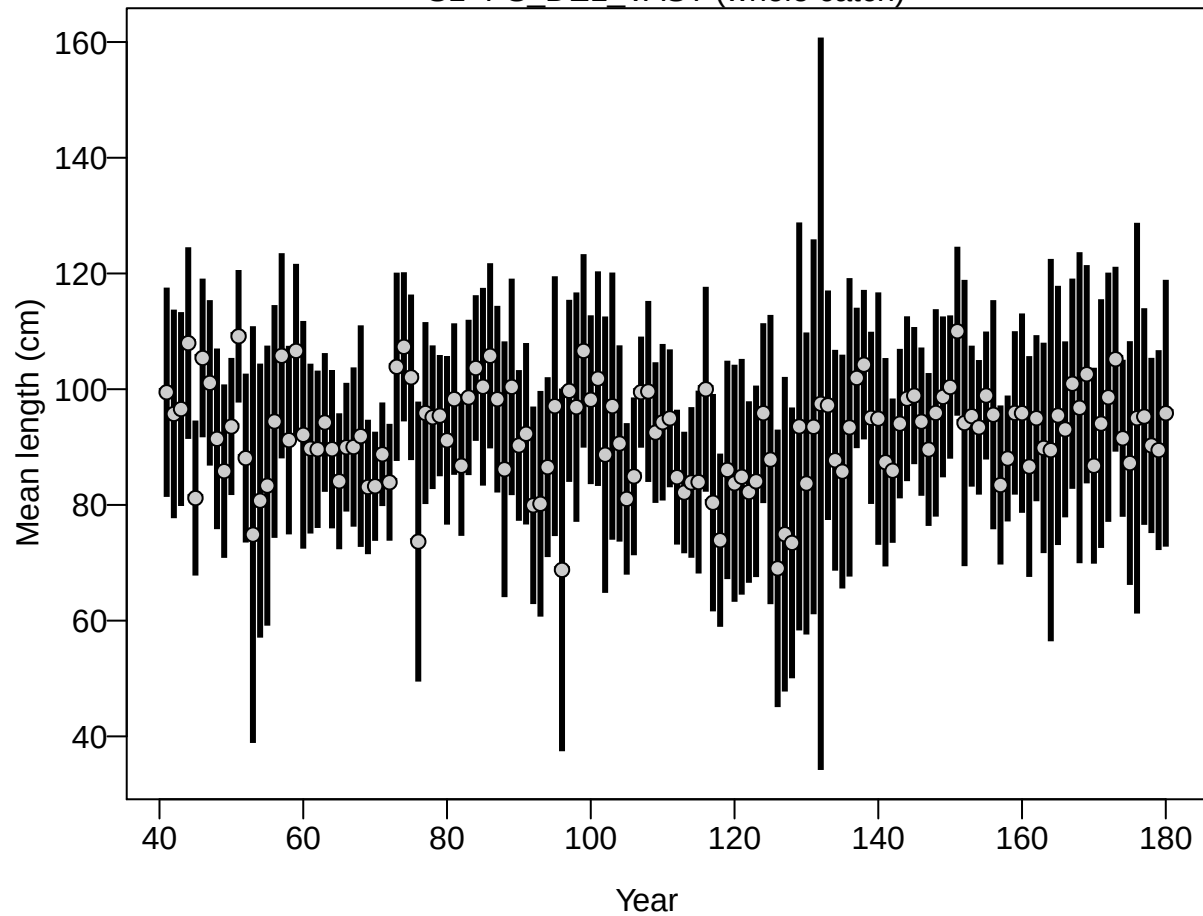






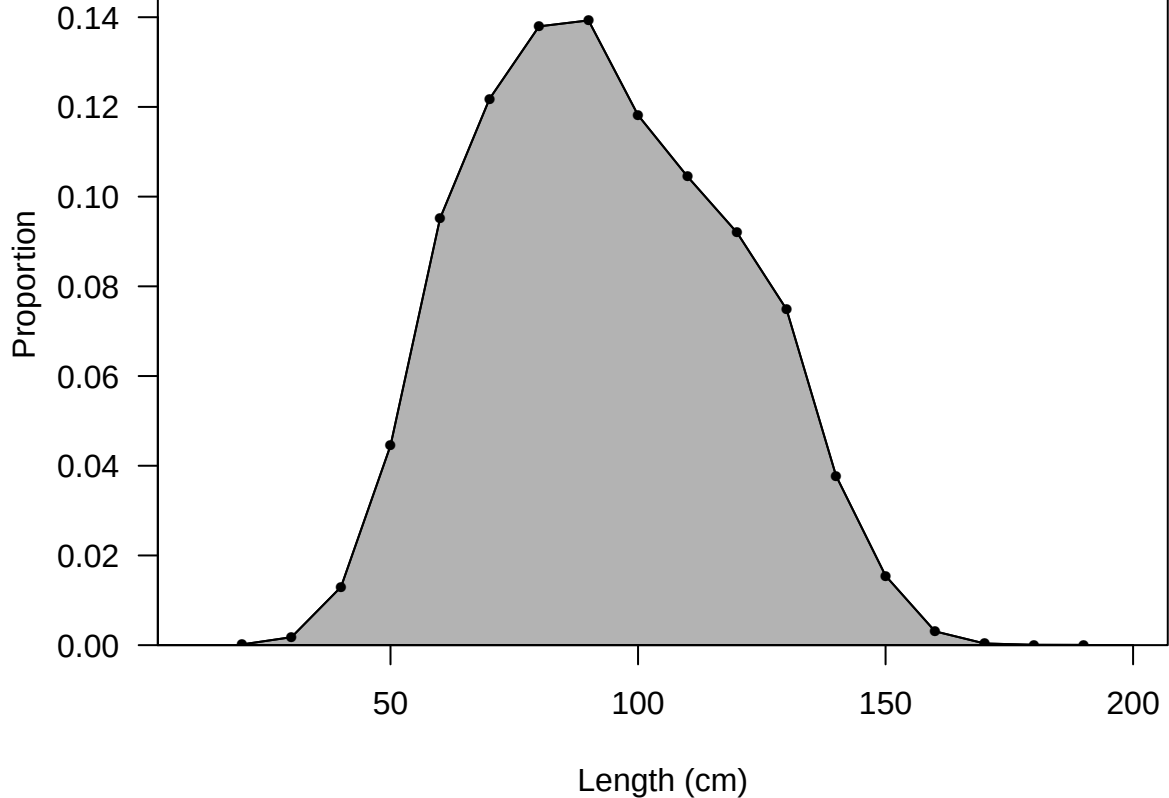


S1-PS_DEL_VAST (whole catch)

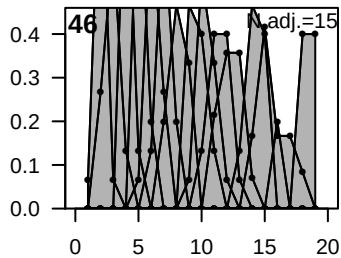


S1-PS_DEL_VAST

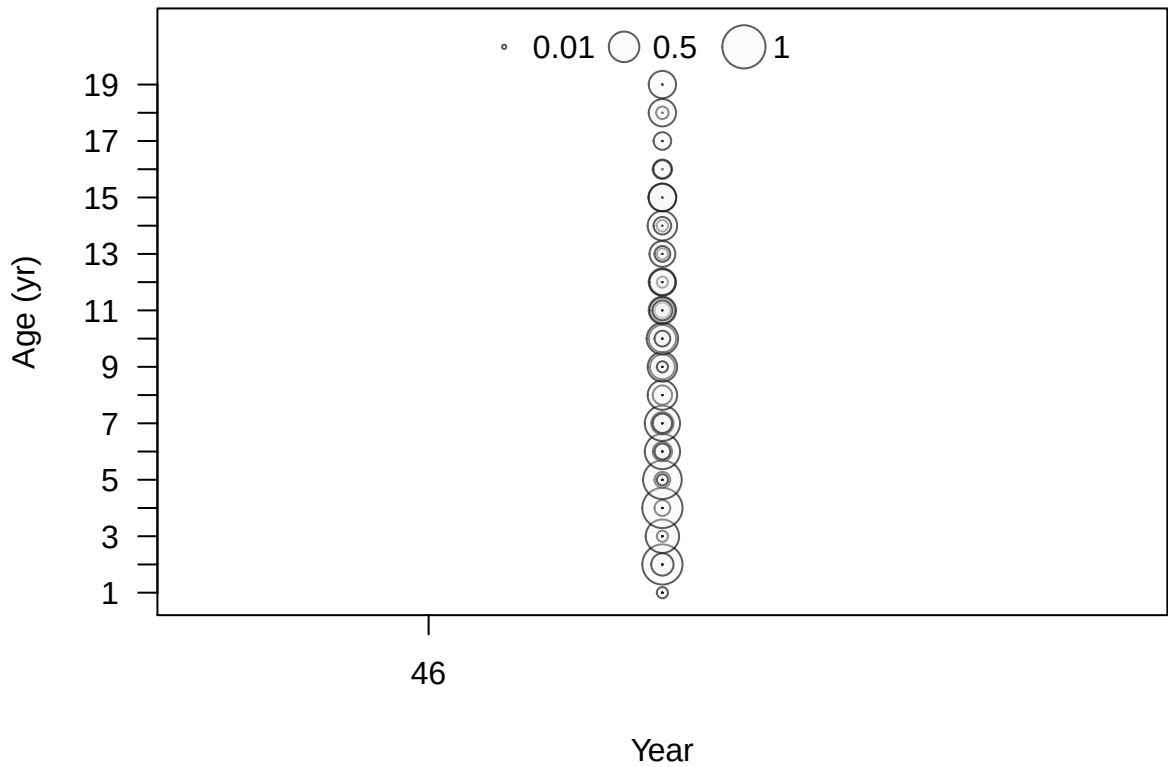
Sum of N adj.=1584.1



Proportion

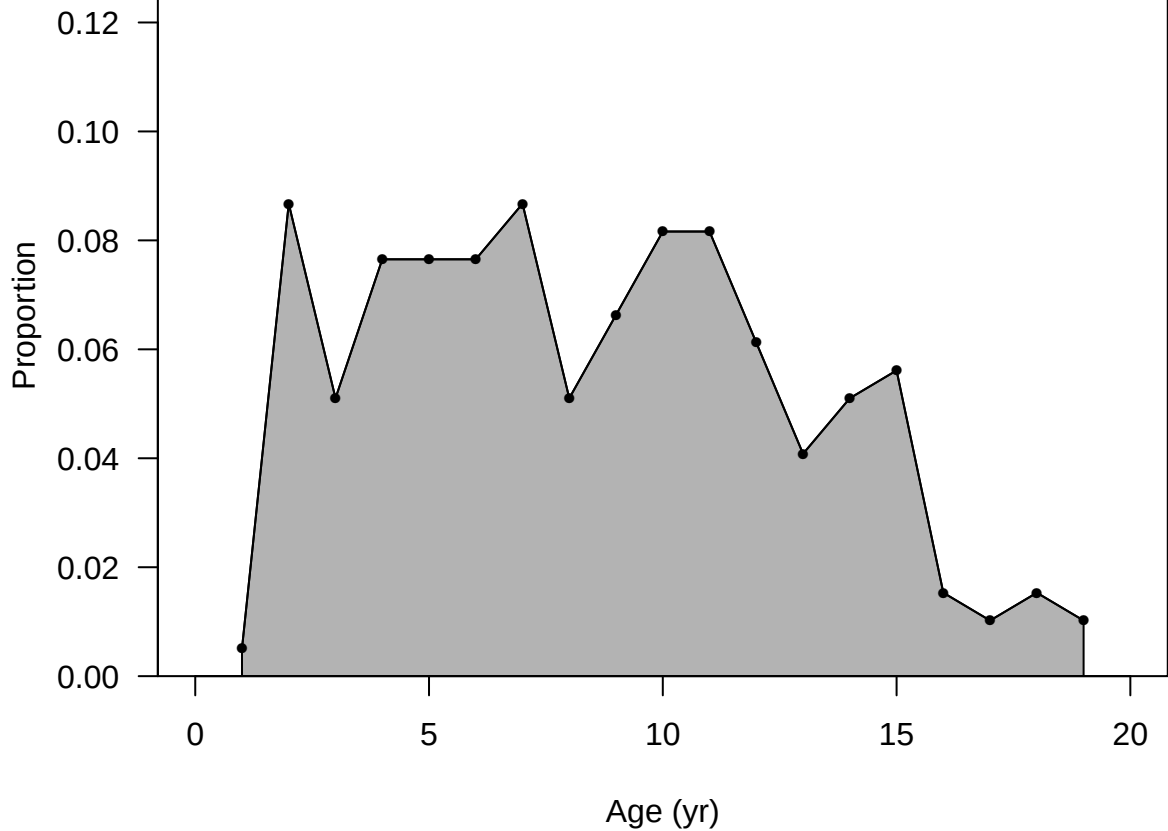


Age (yr)



F18-DEL_C

Sum of N adj.=196



F18-DEL_C

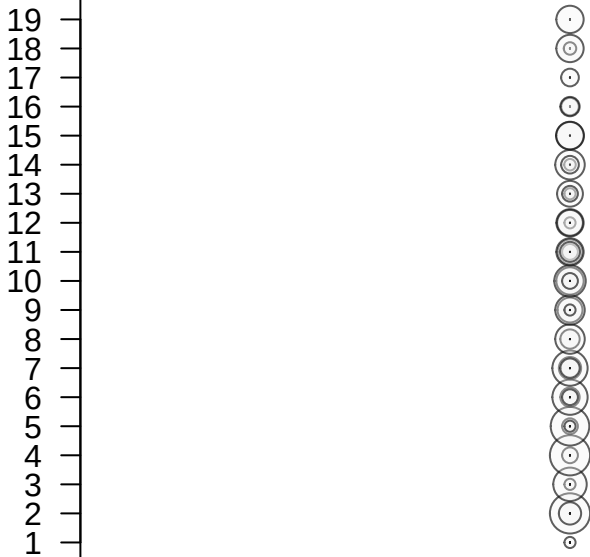
◦ 0.01 ○ 0.5 ○ 1

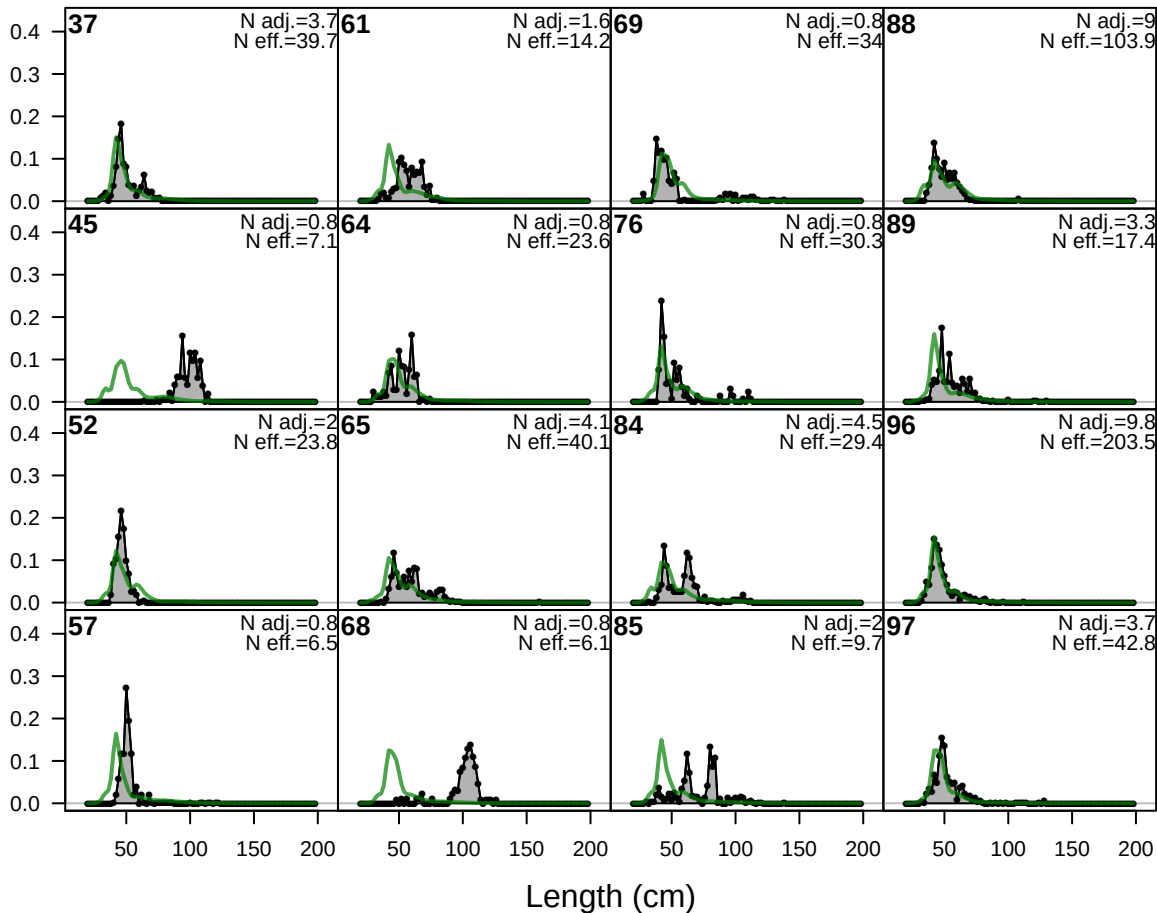
Age (yr)

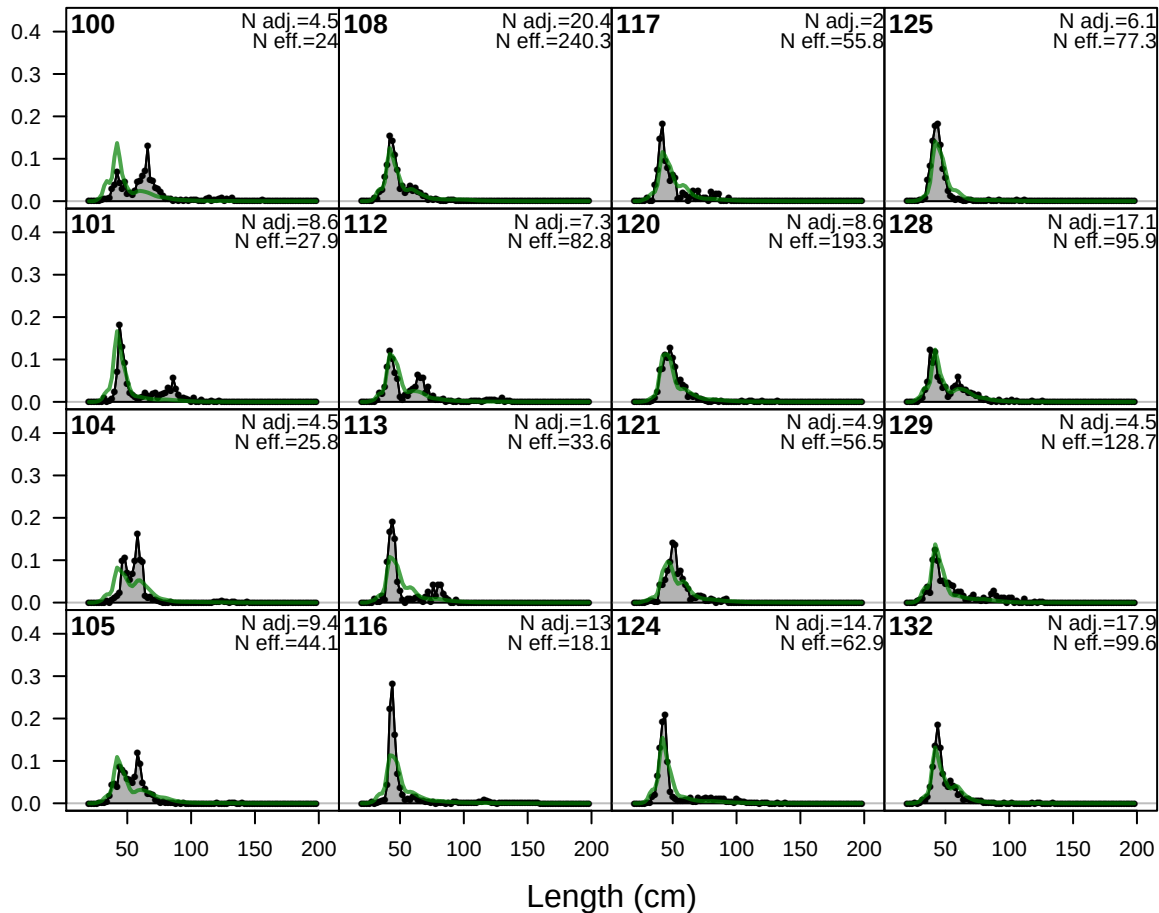
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1

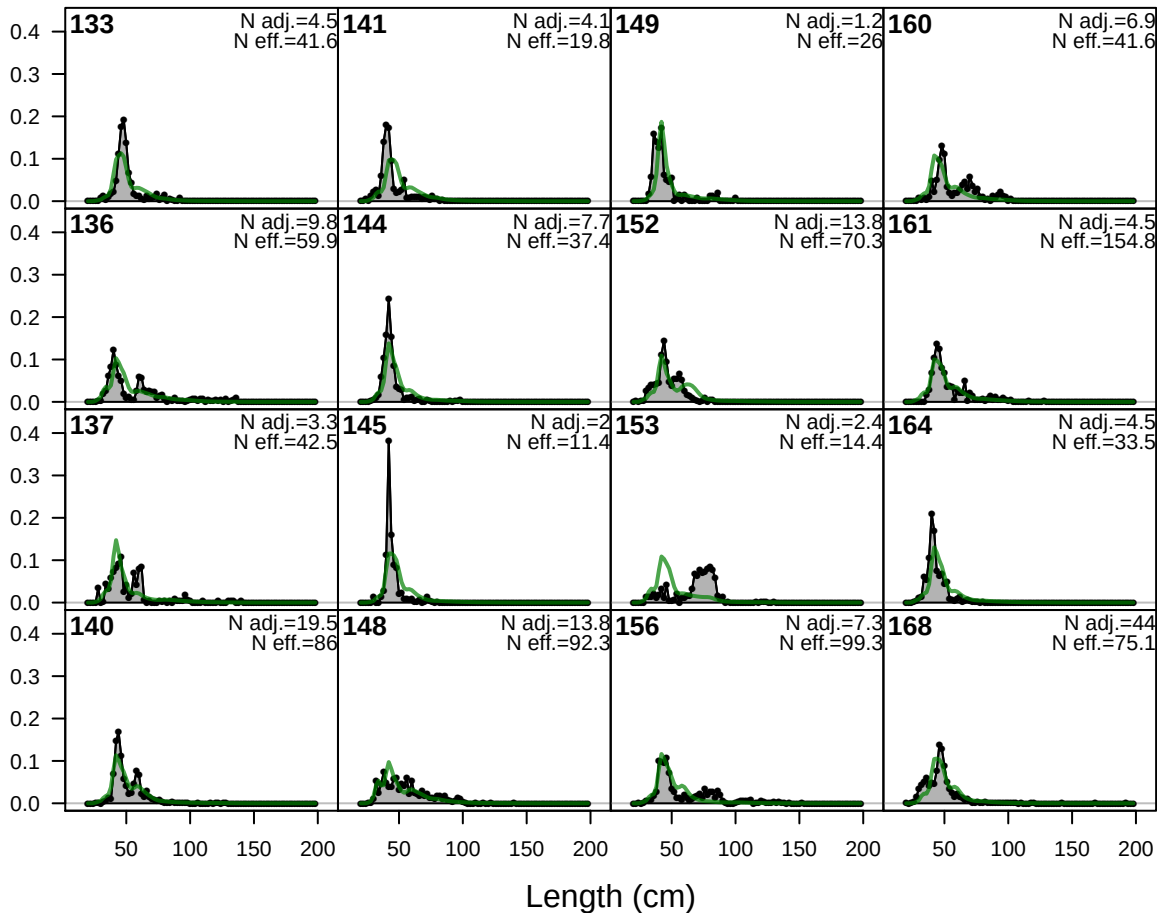
46

Year

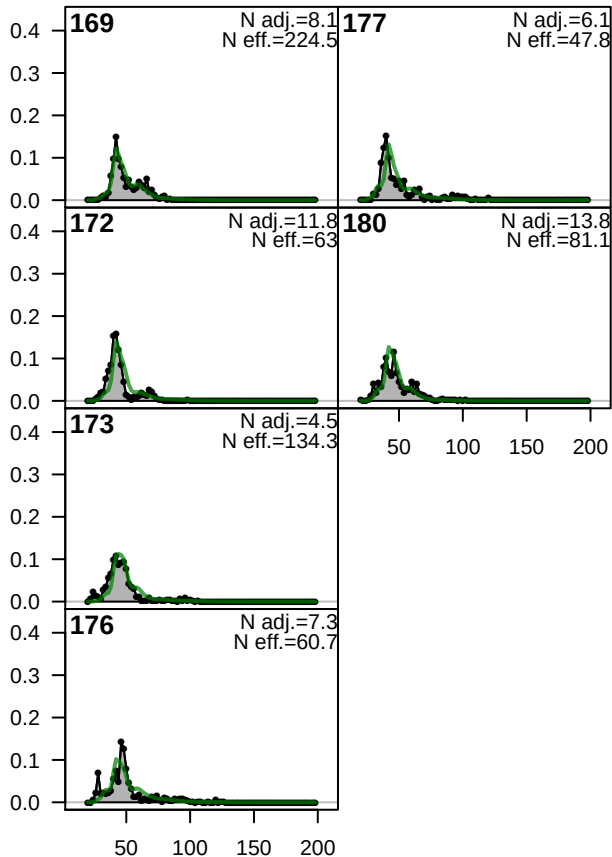




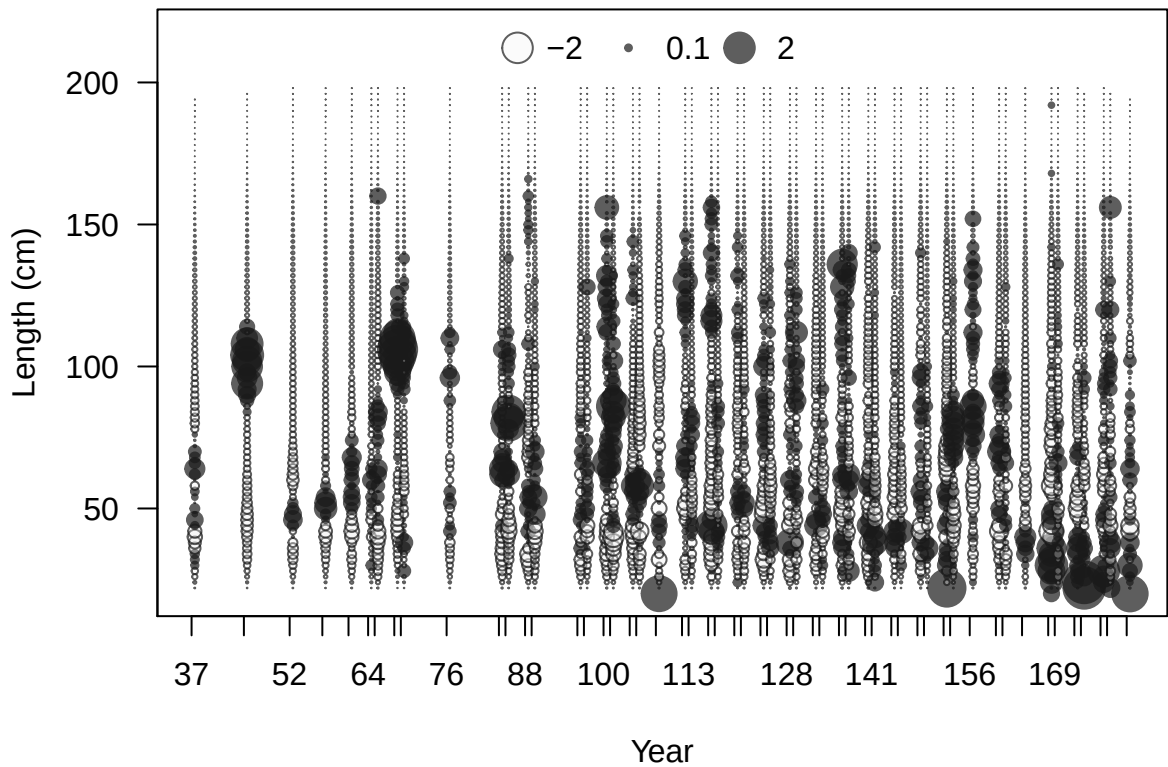




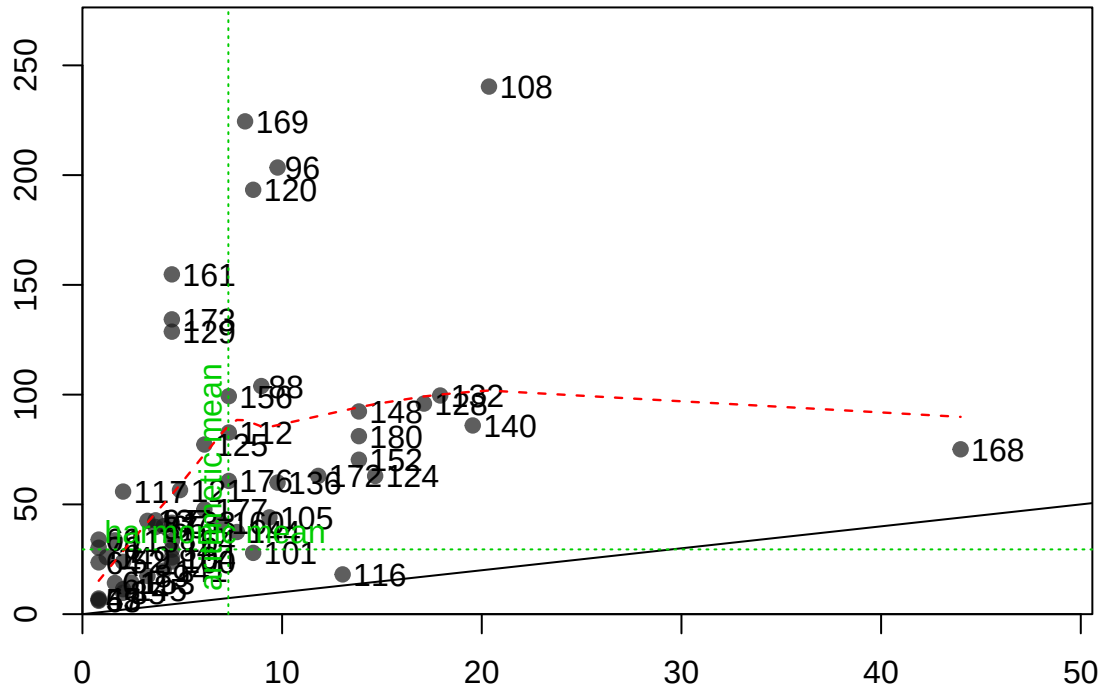
Proportion



Length (cm)

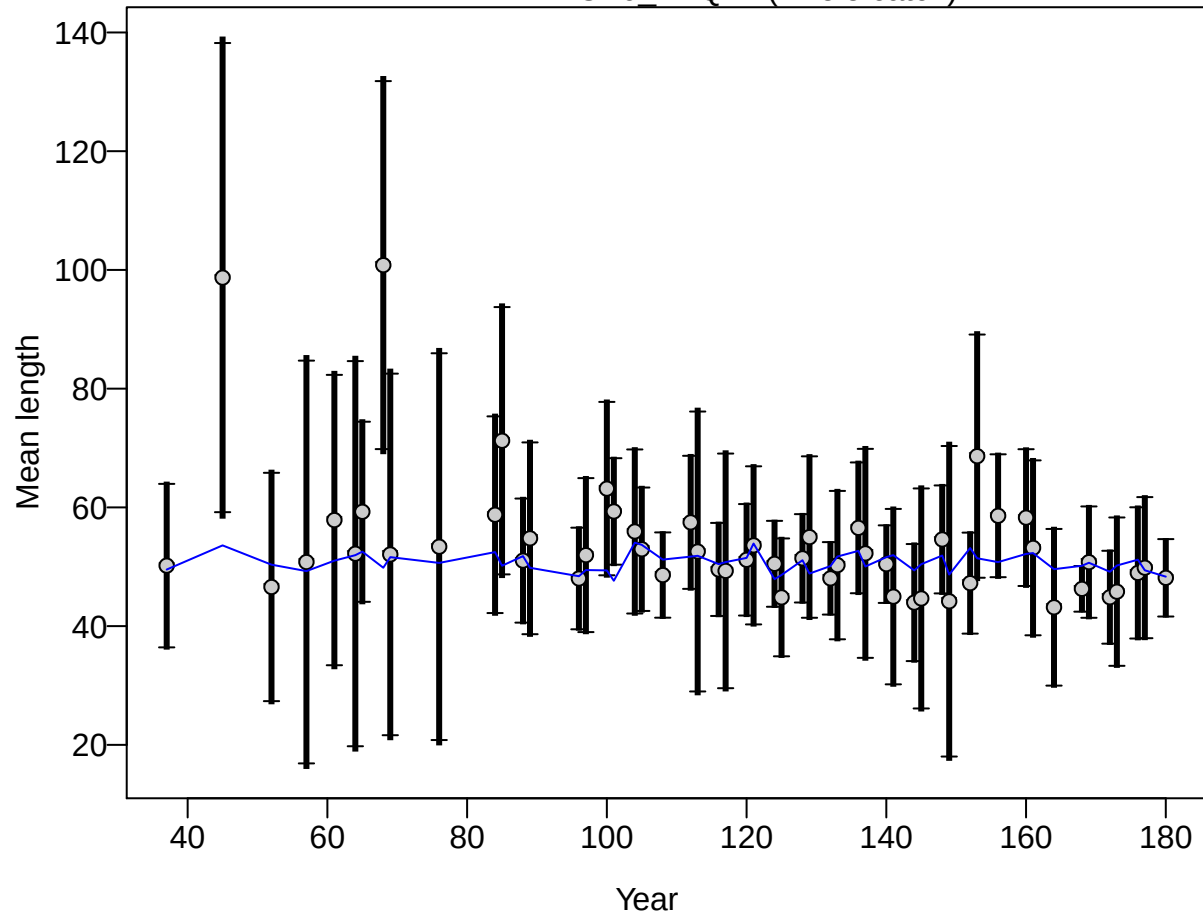


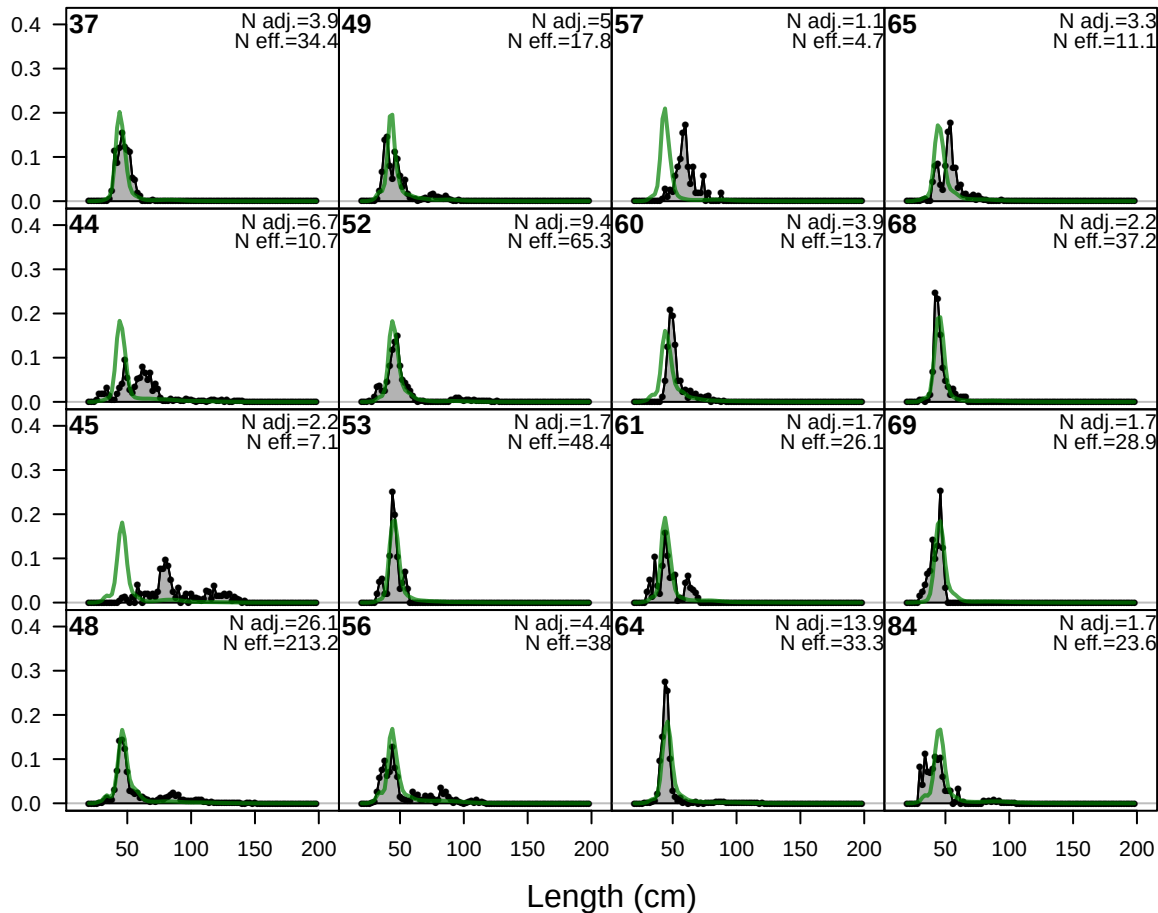
Effective sample size

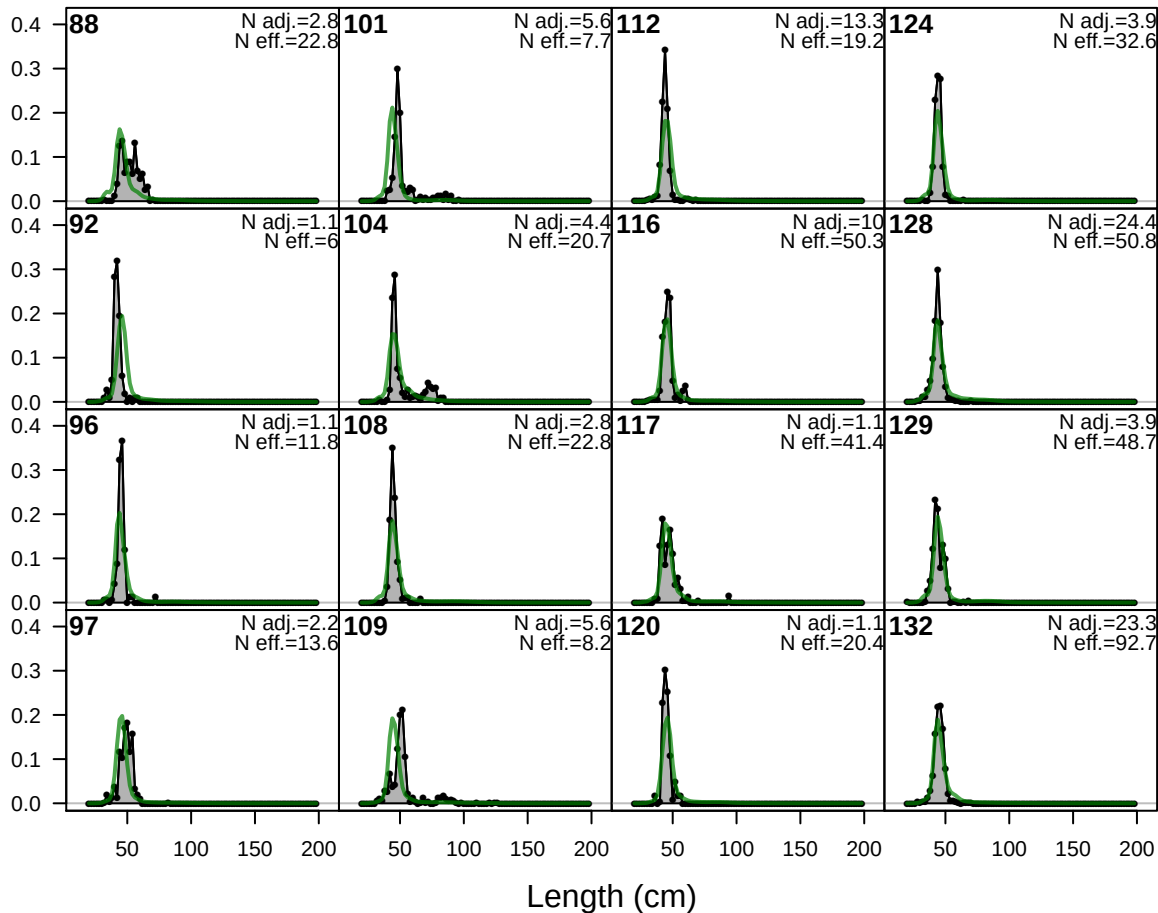


Observed sample size

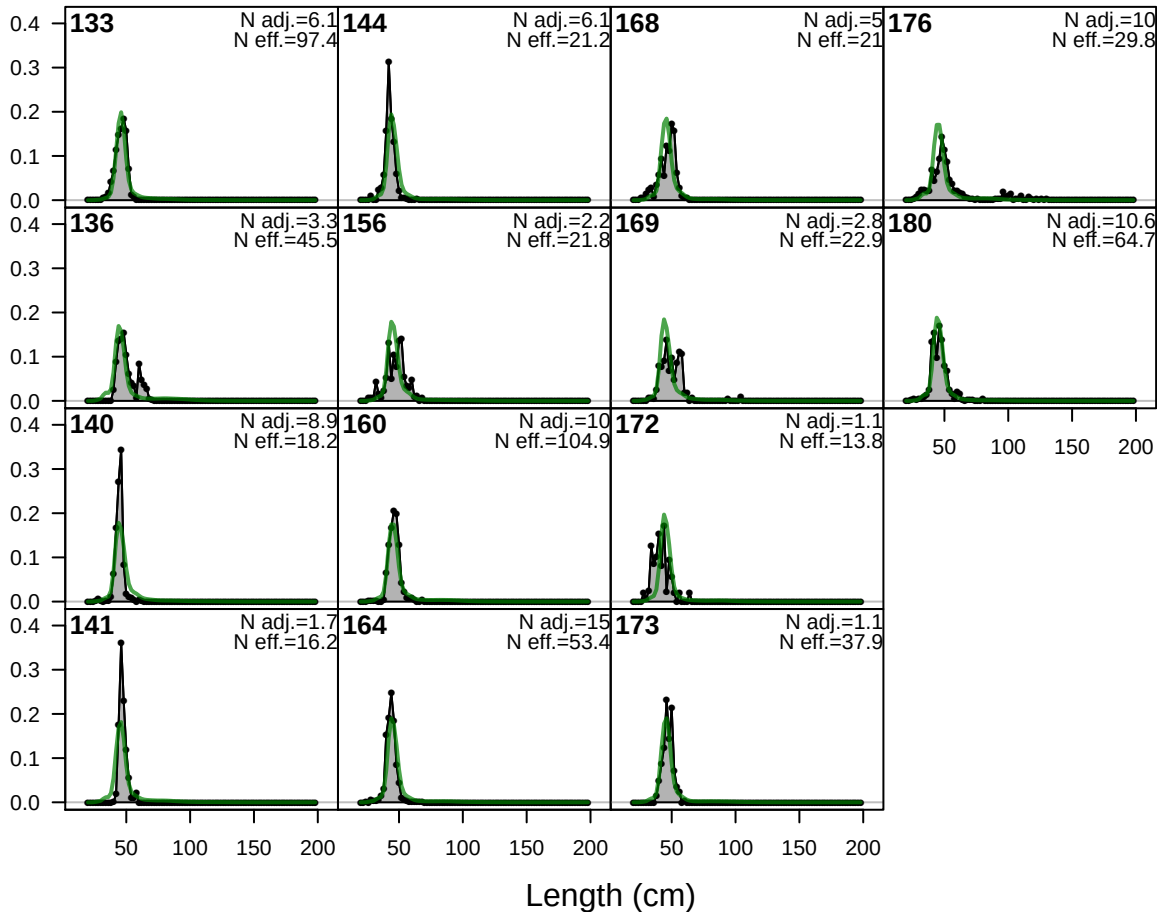
F1-OBJ_N-Q14 (whole catch)

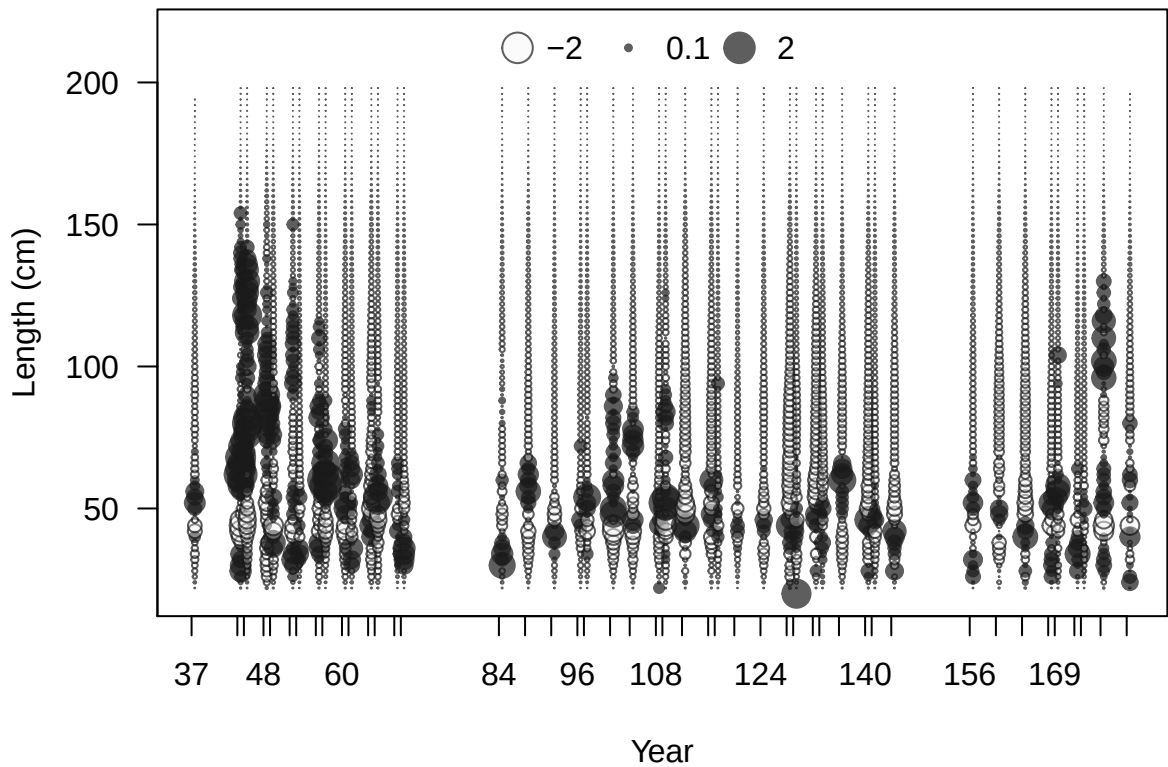




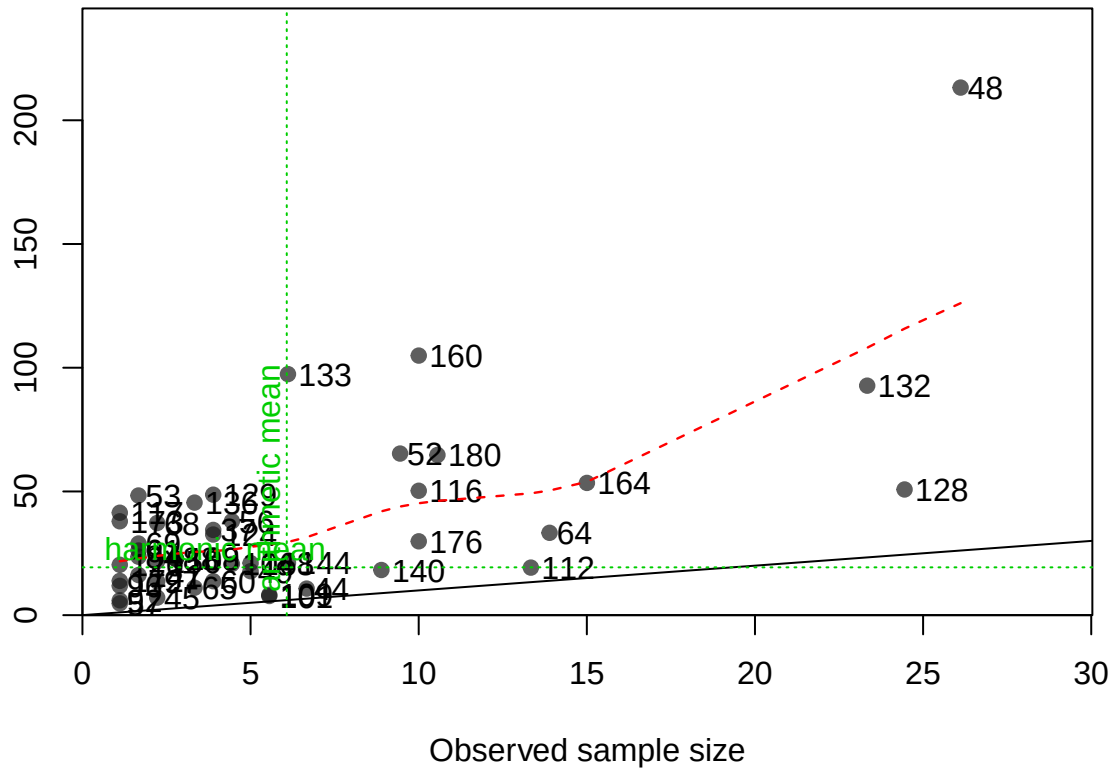


Proportion

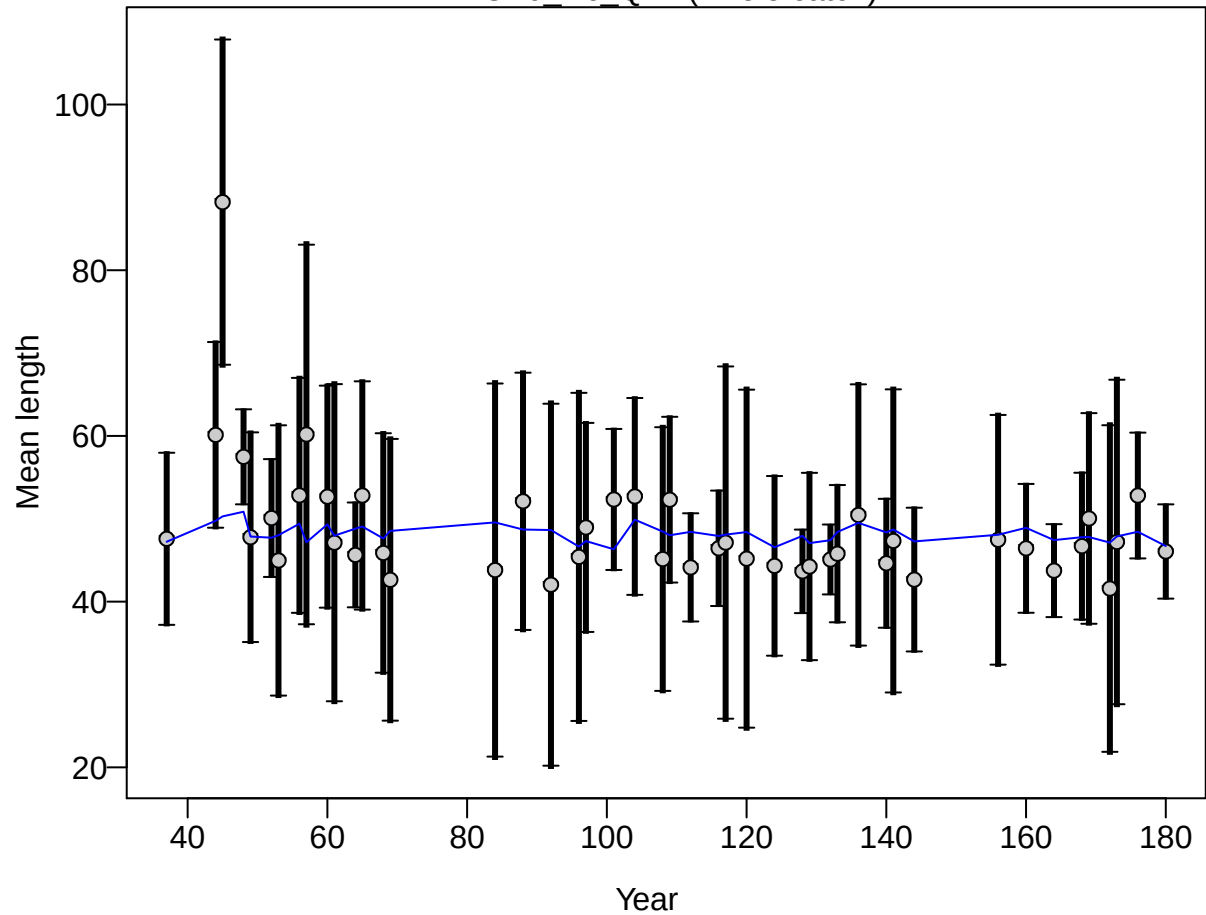


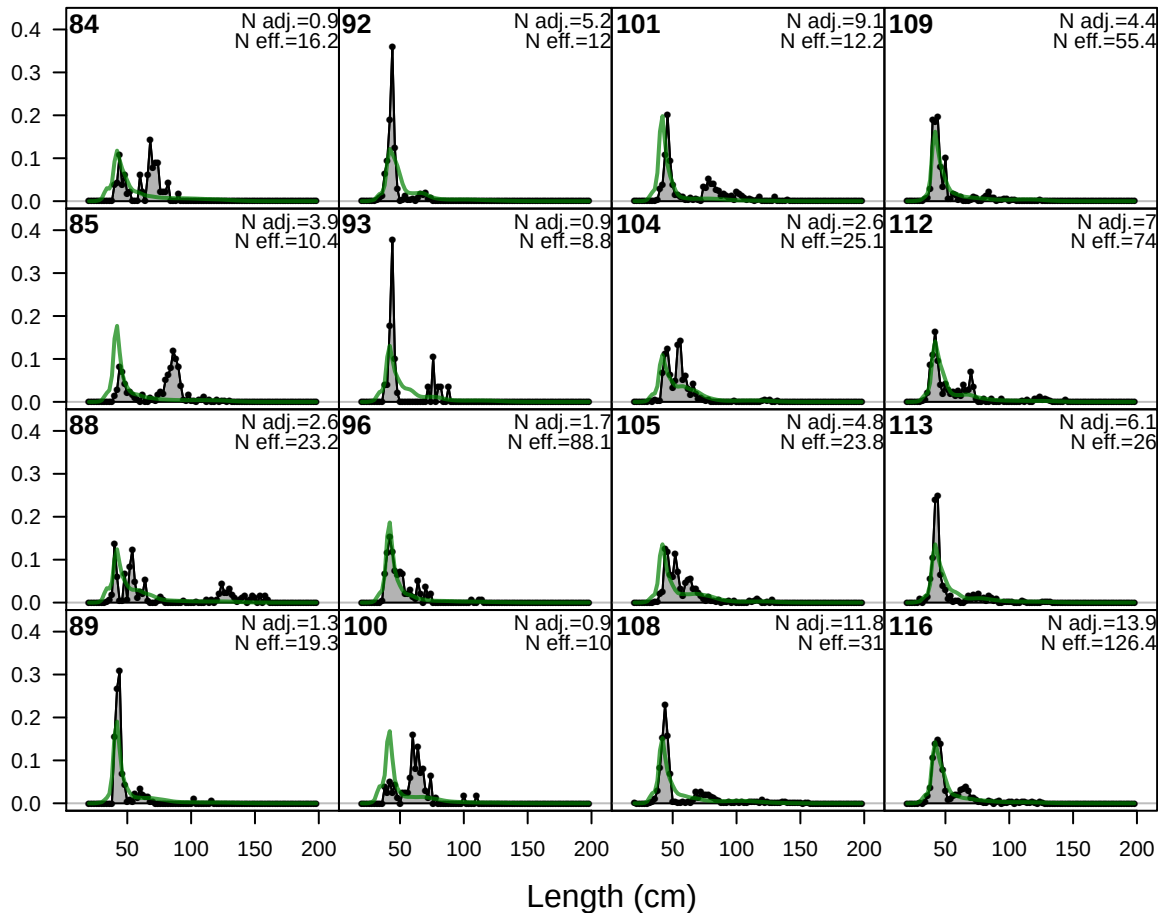


Effective sample size

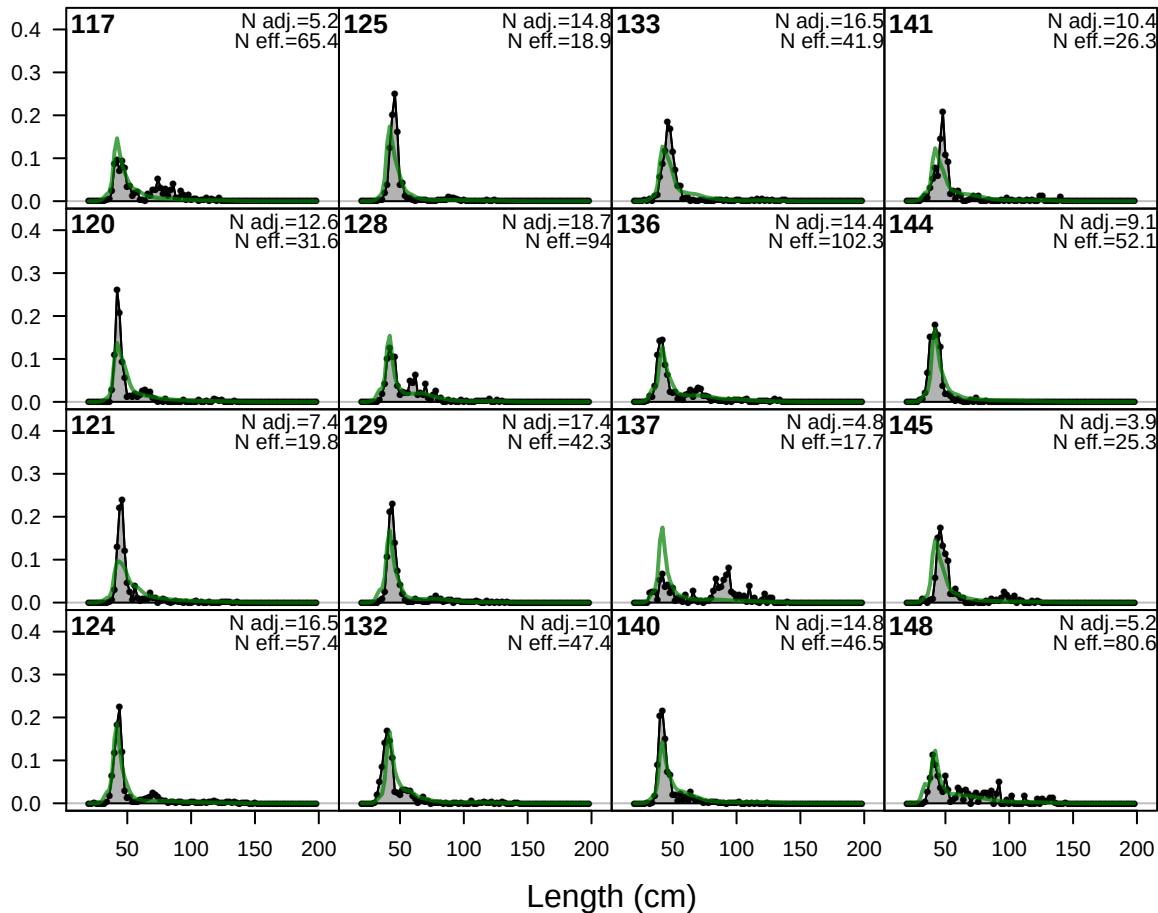


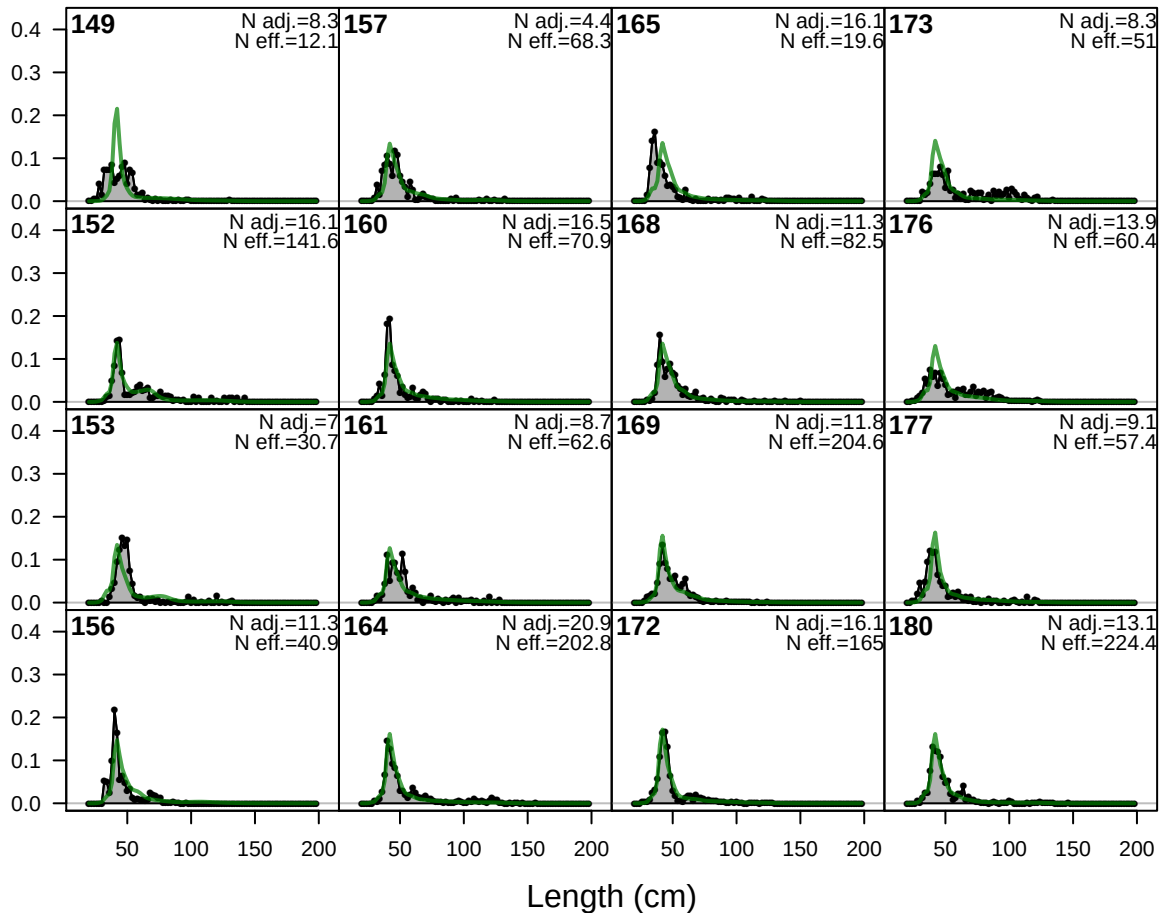
F2-OBJ_Nc_Q14 (whole catch)

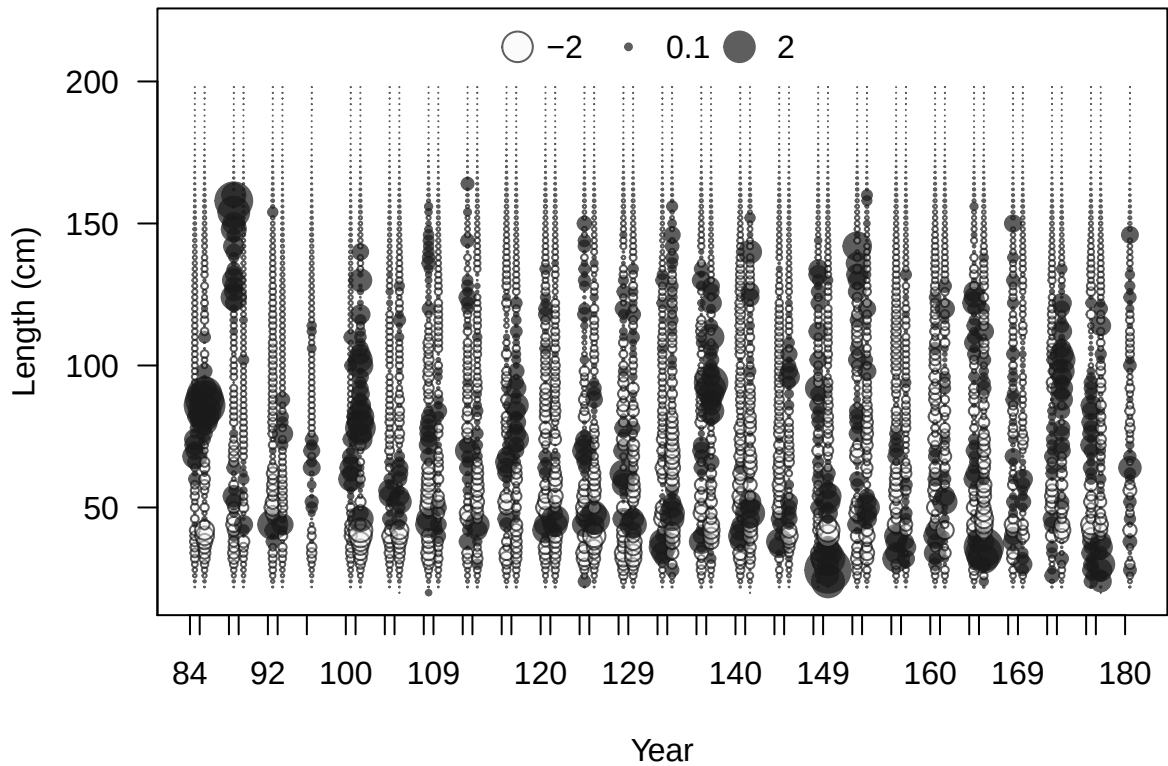


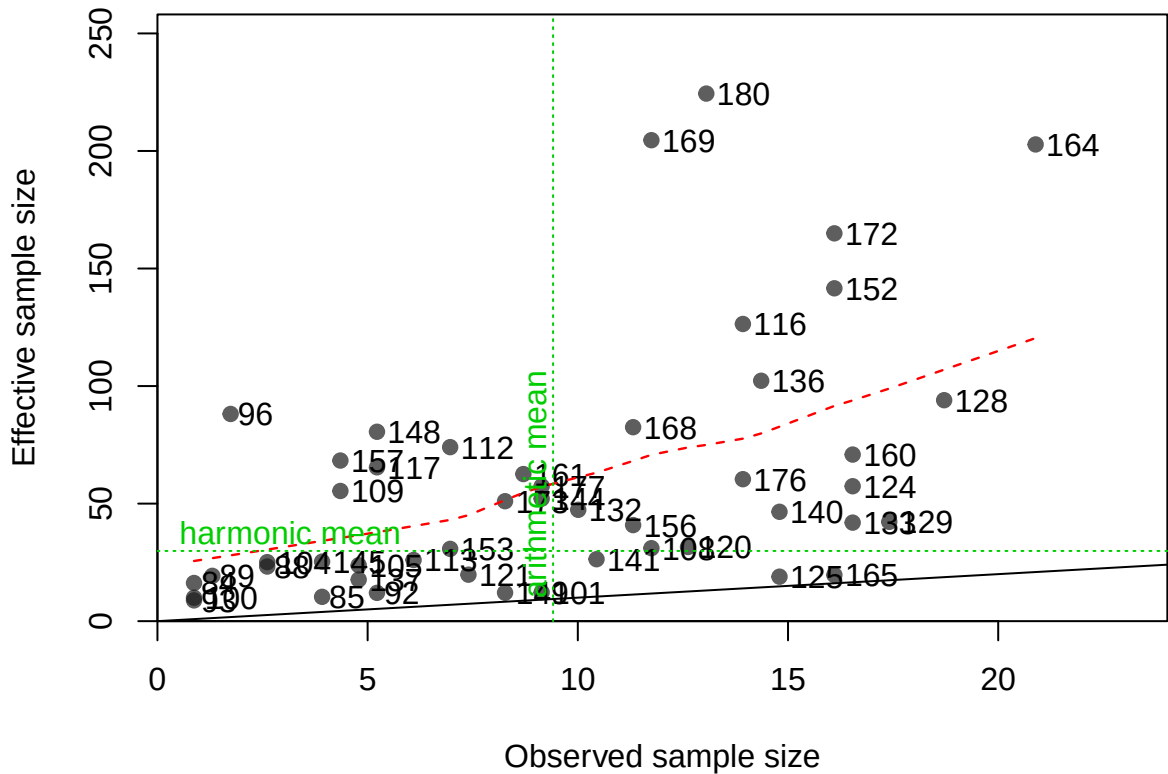


Proportion

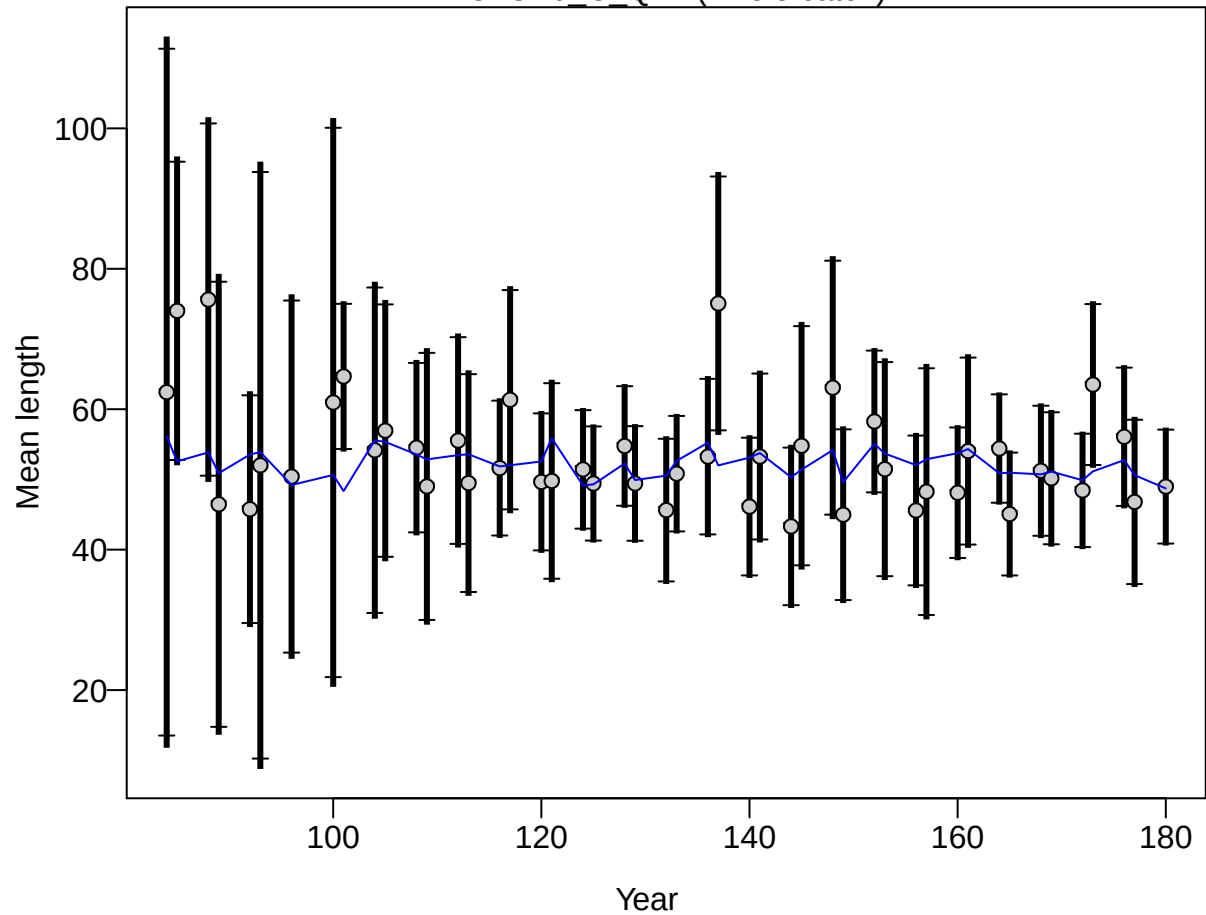


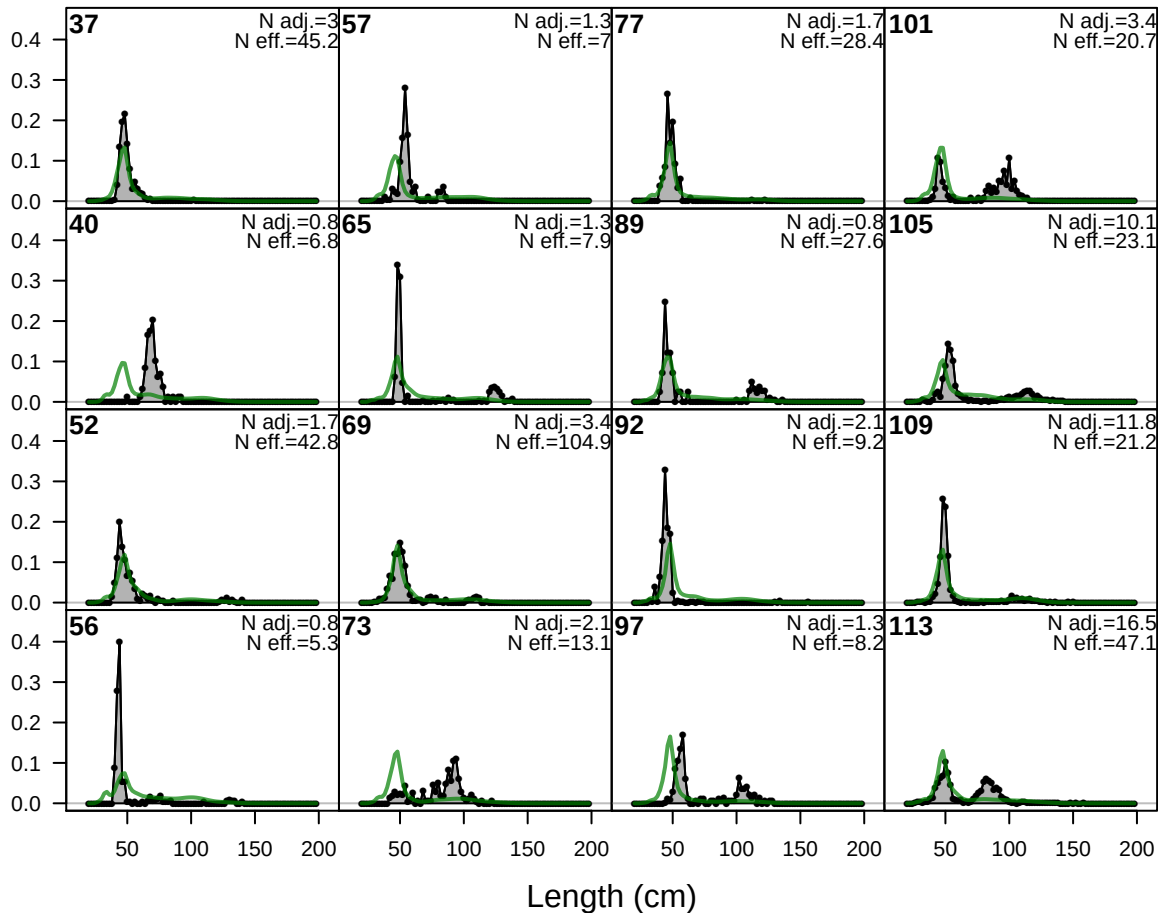


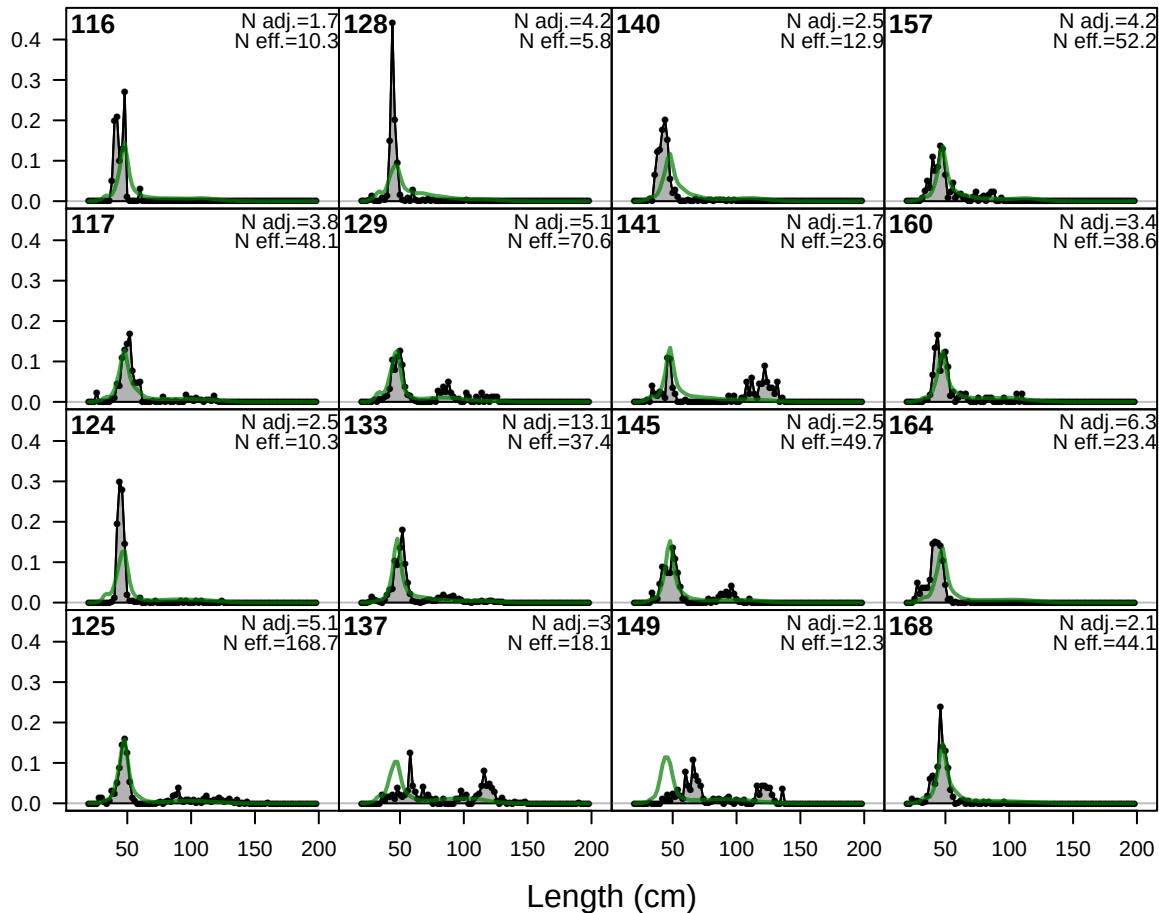




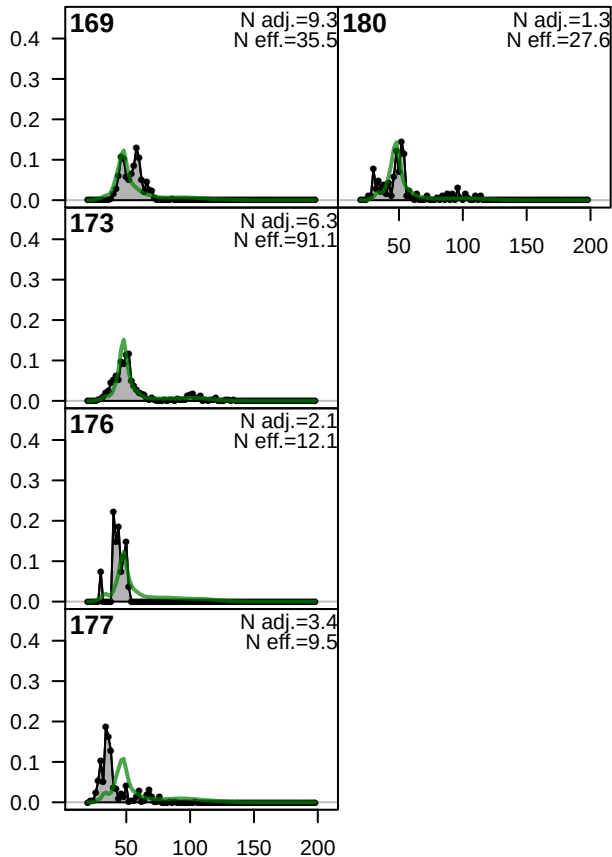
F3-OBJ_C_Q14 (whole catch)



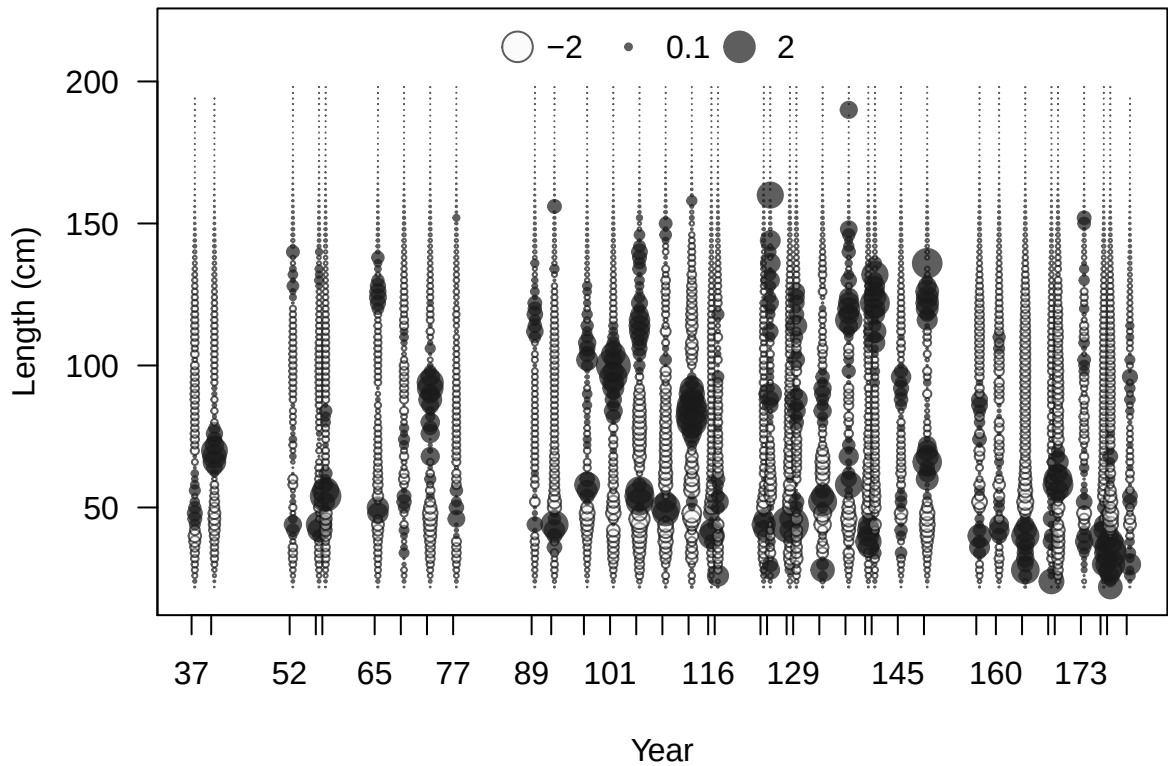




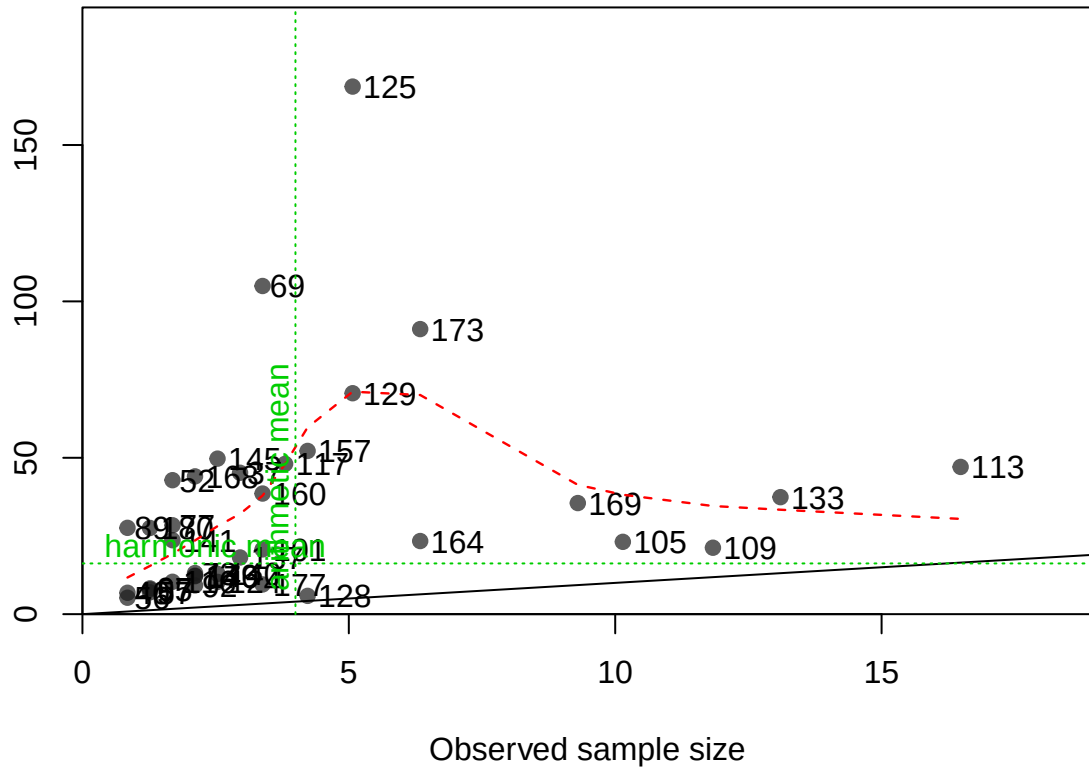
Proportion



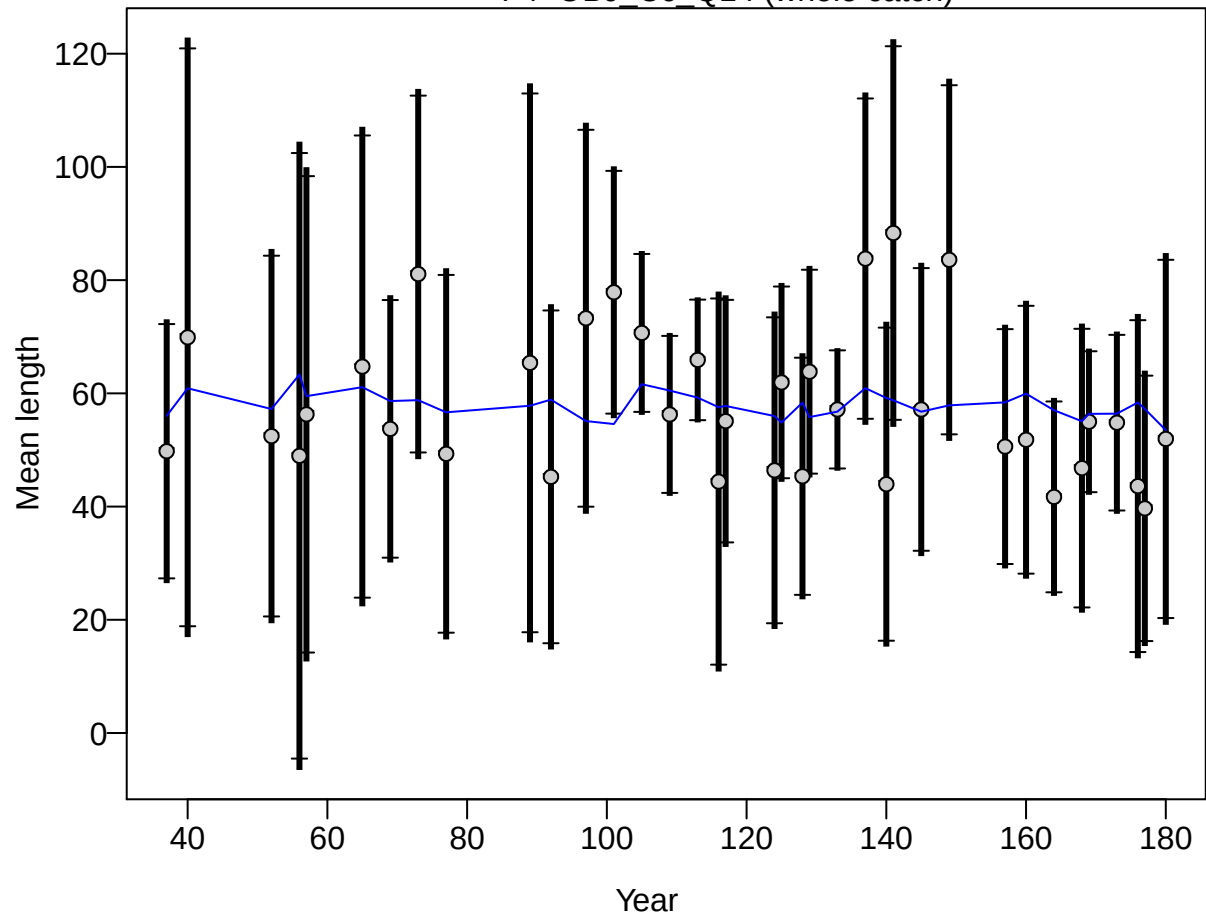
Length (cm)

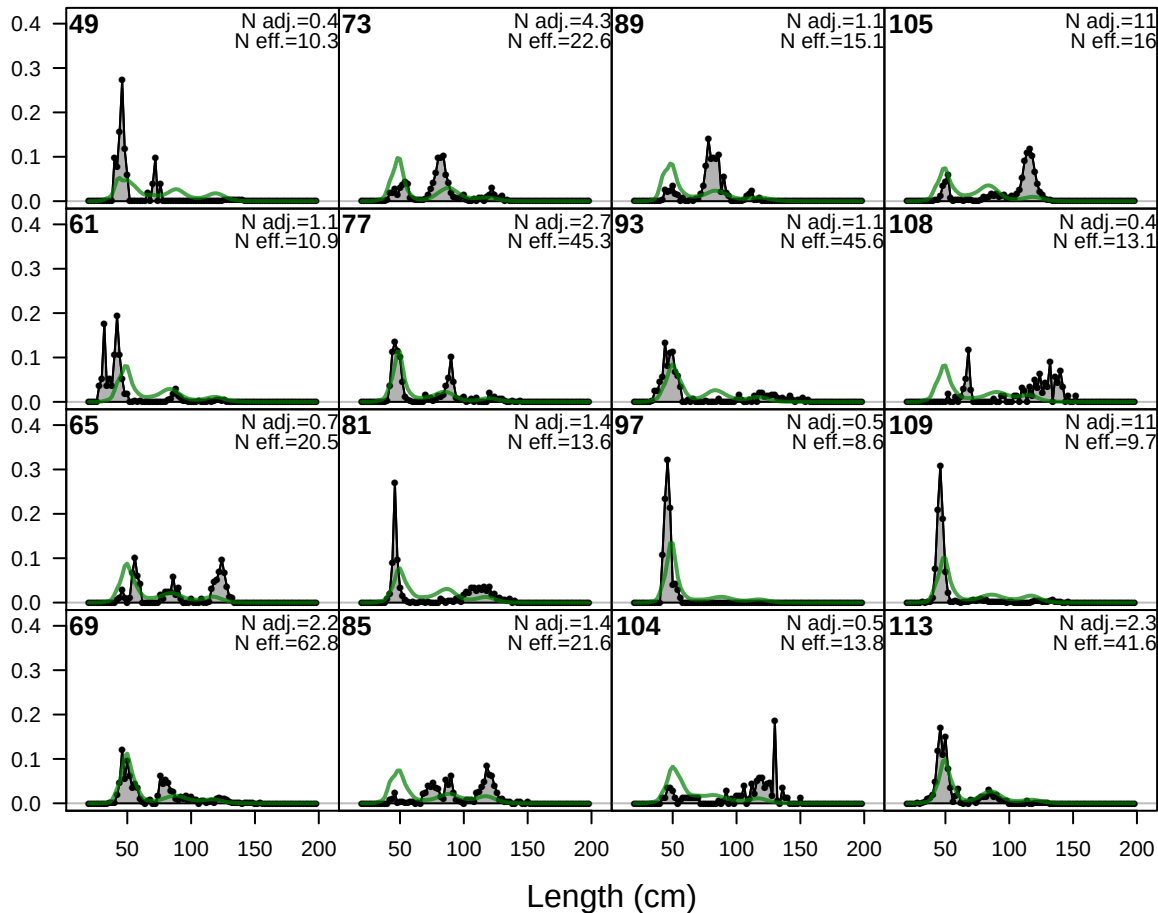


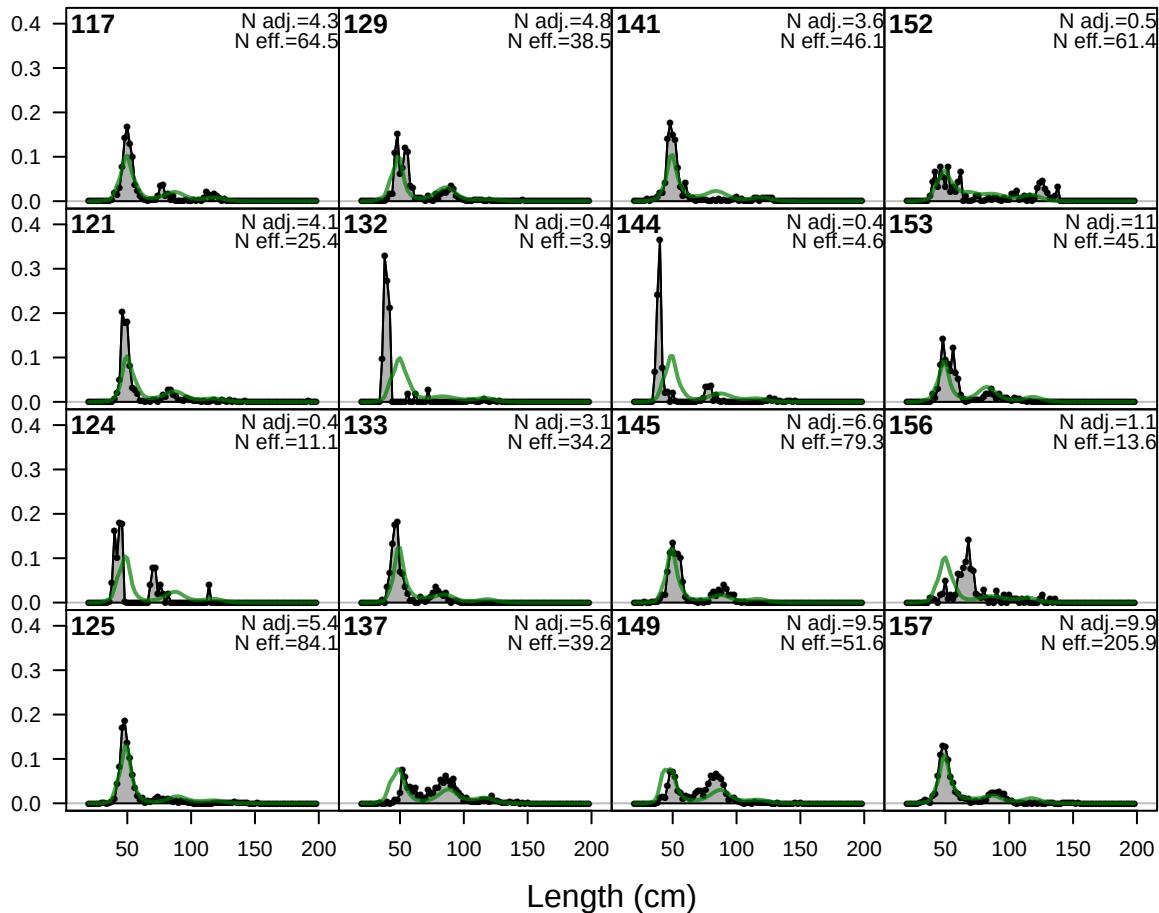
Effective sample size



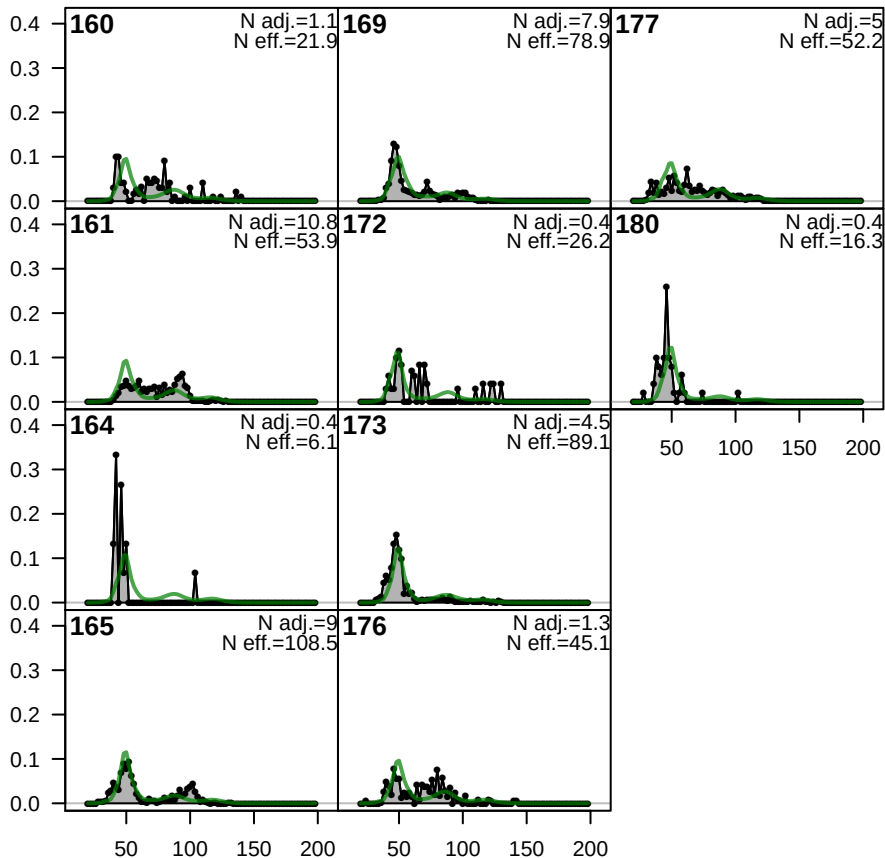
F4-OBJ_Cc_Q14 (whole catch)



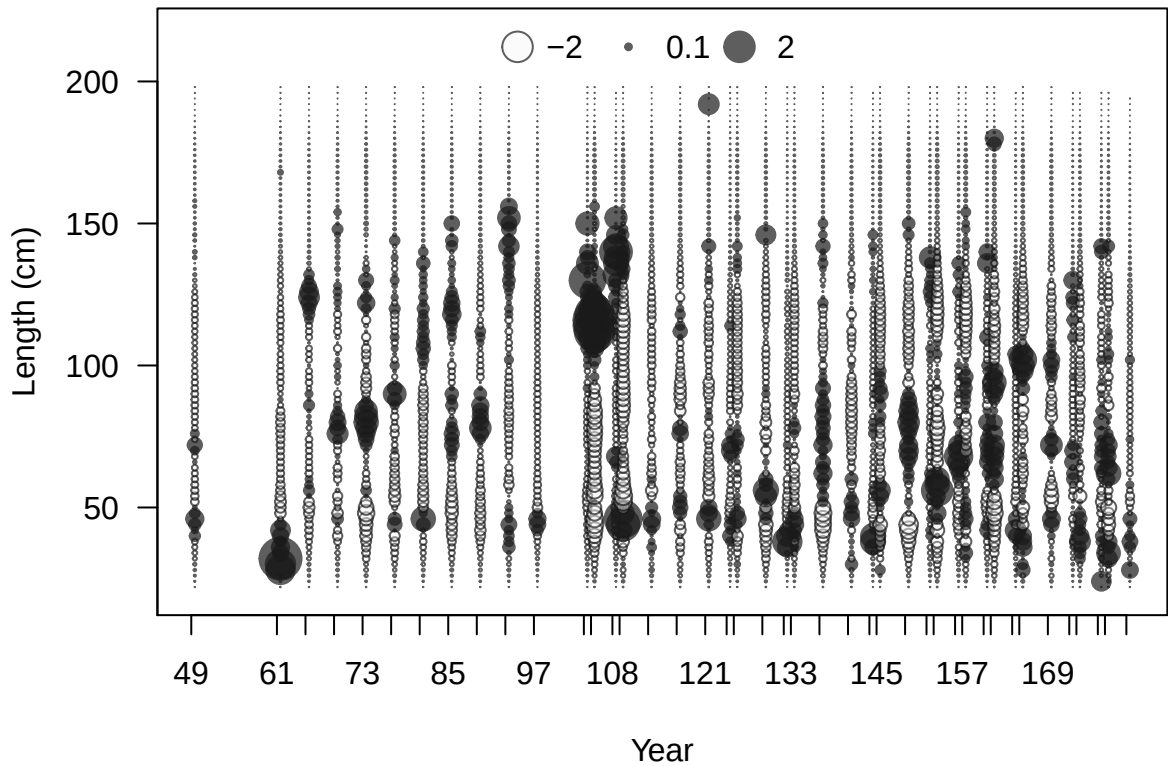




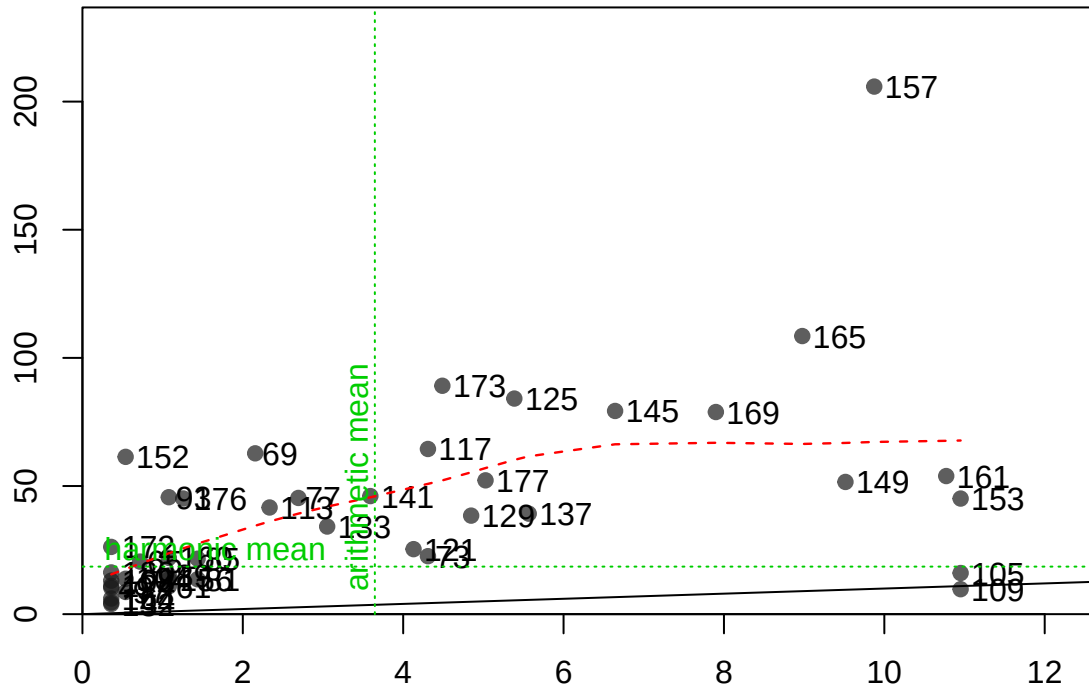
Proportion



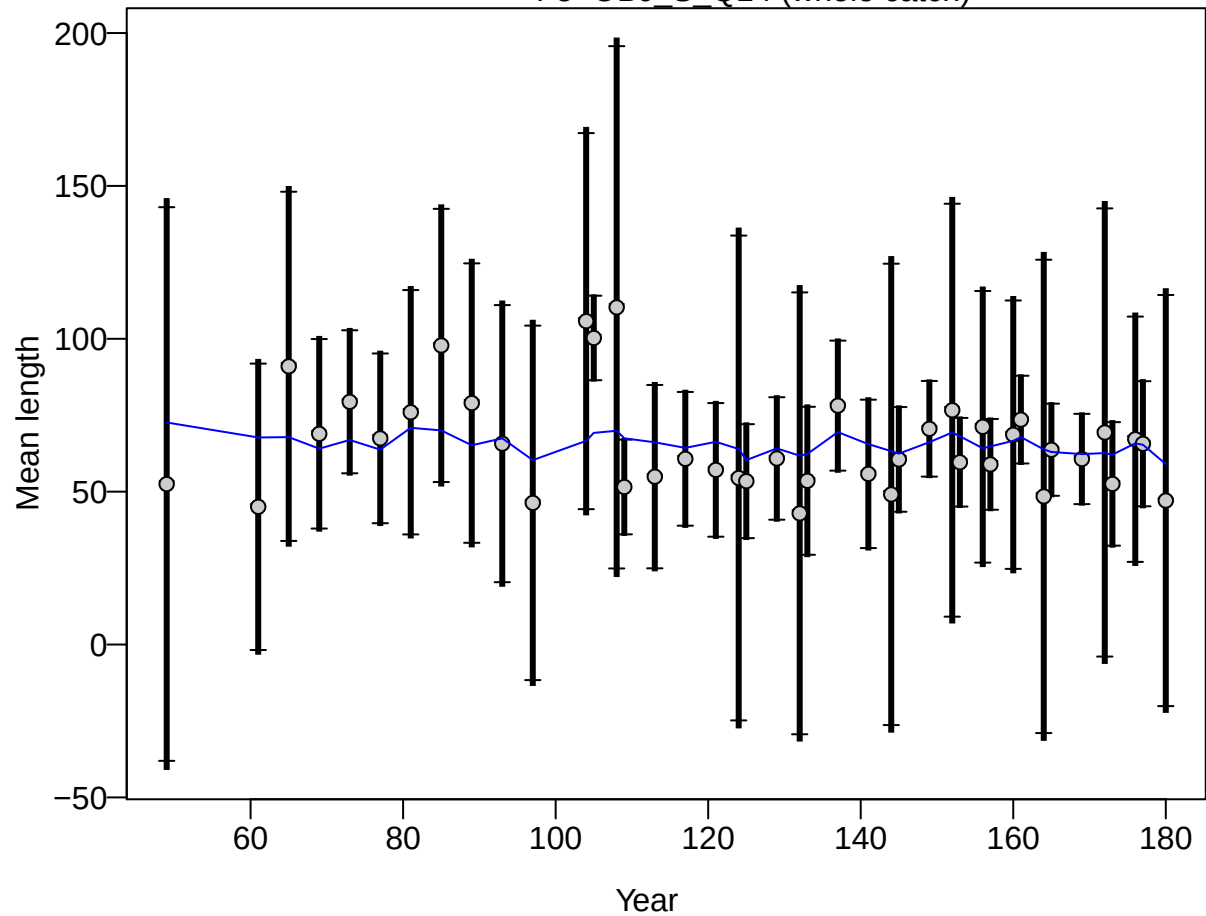
Length (cm)

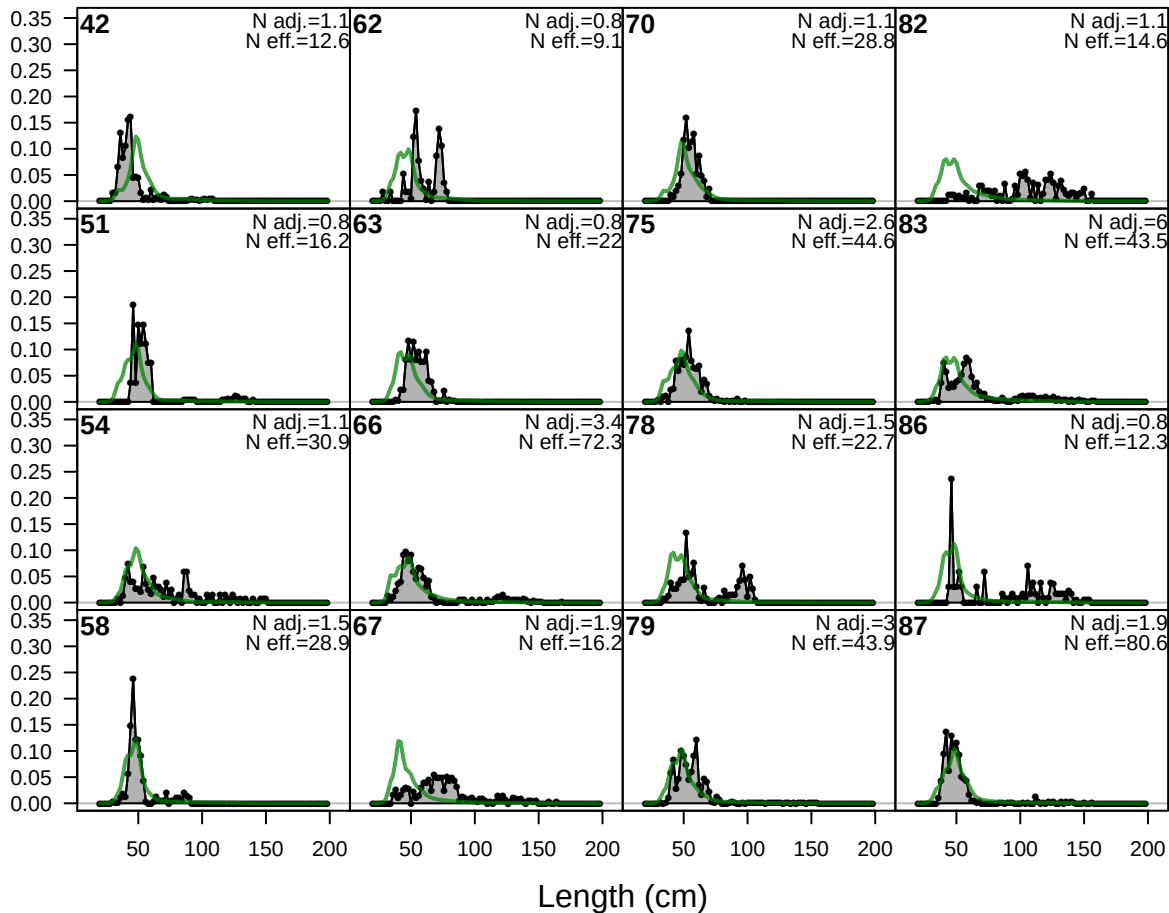


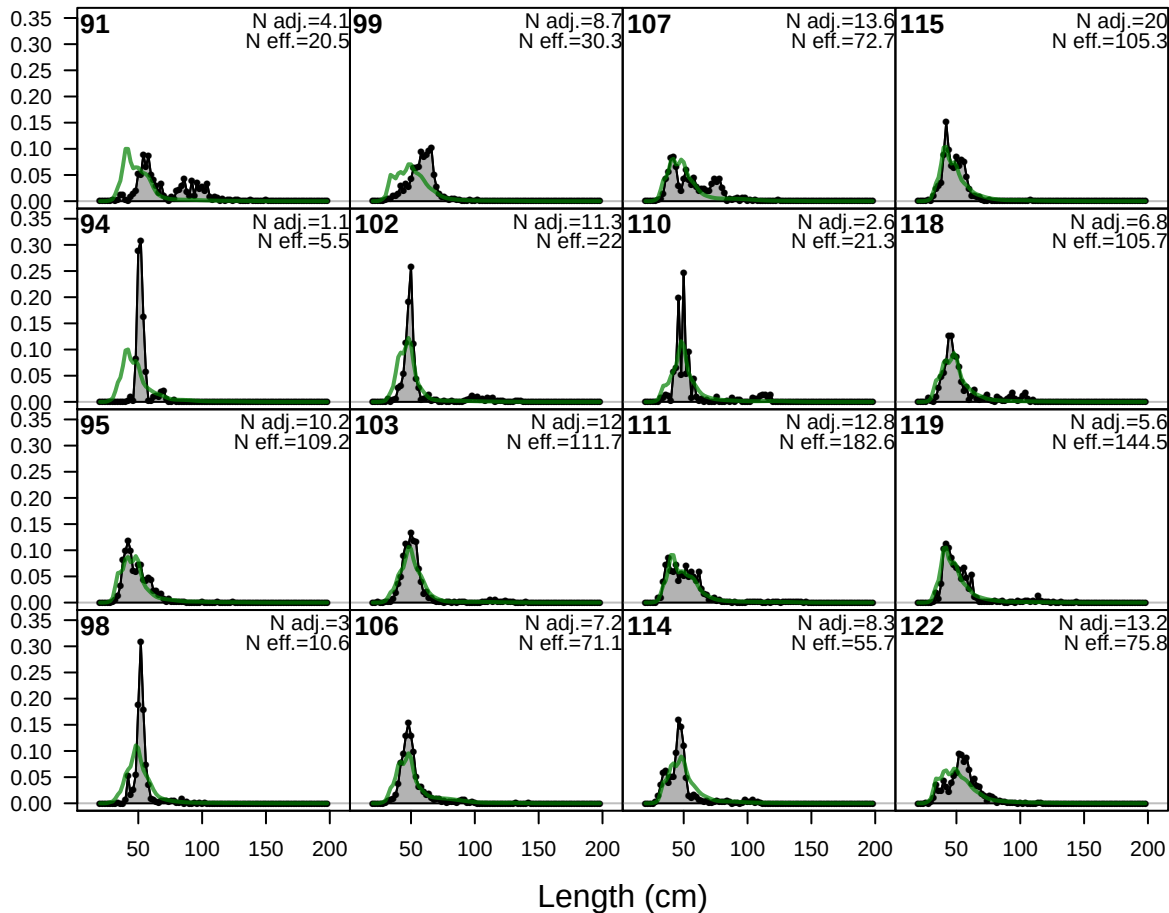
Effective sample size

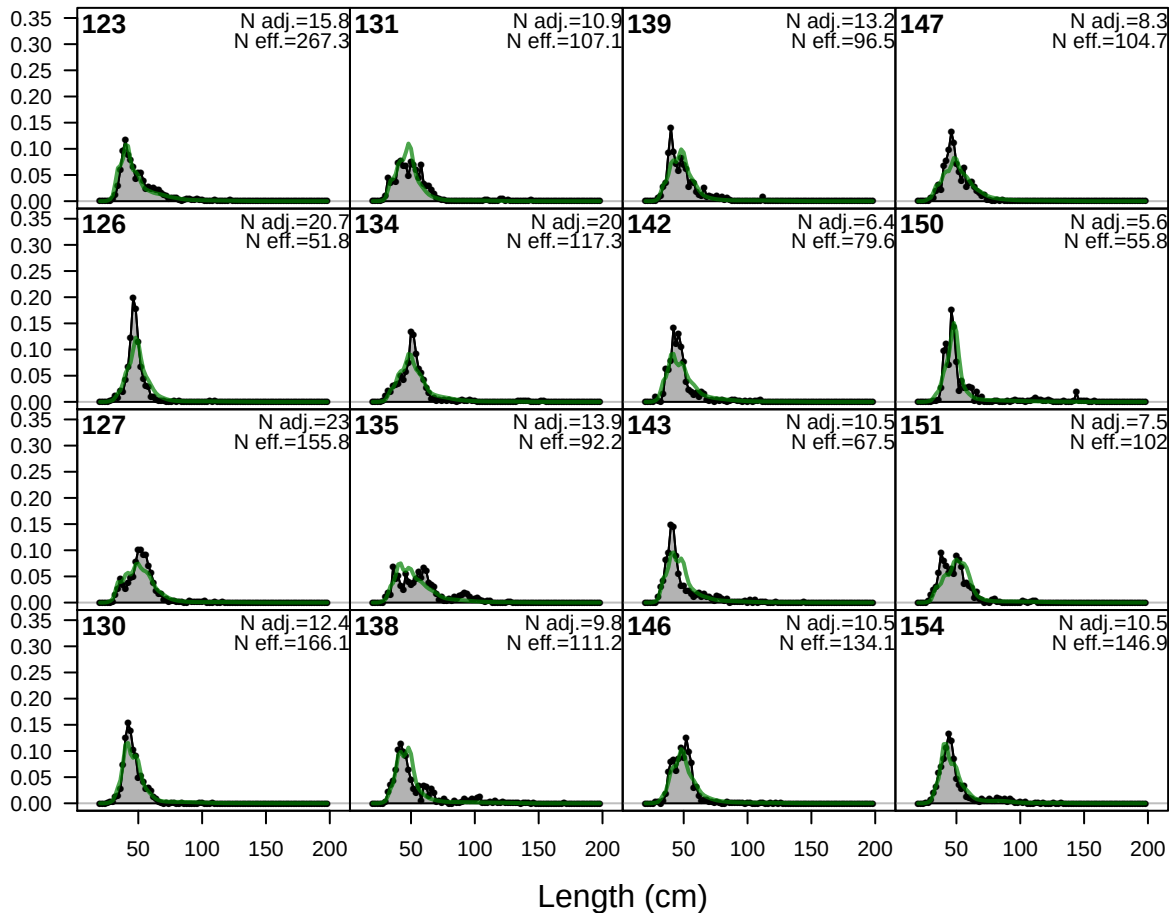


F5-OBJ S_Q14 (whole catch)

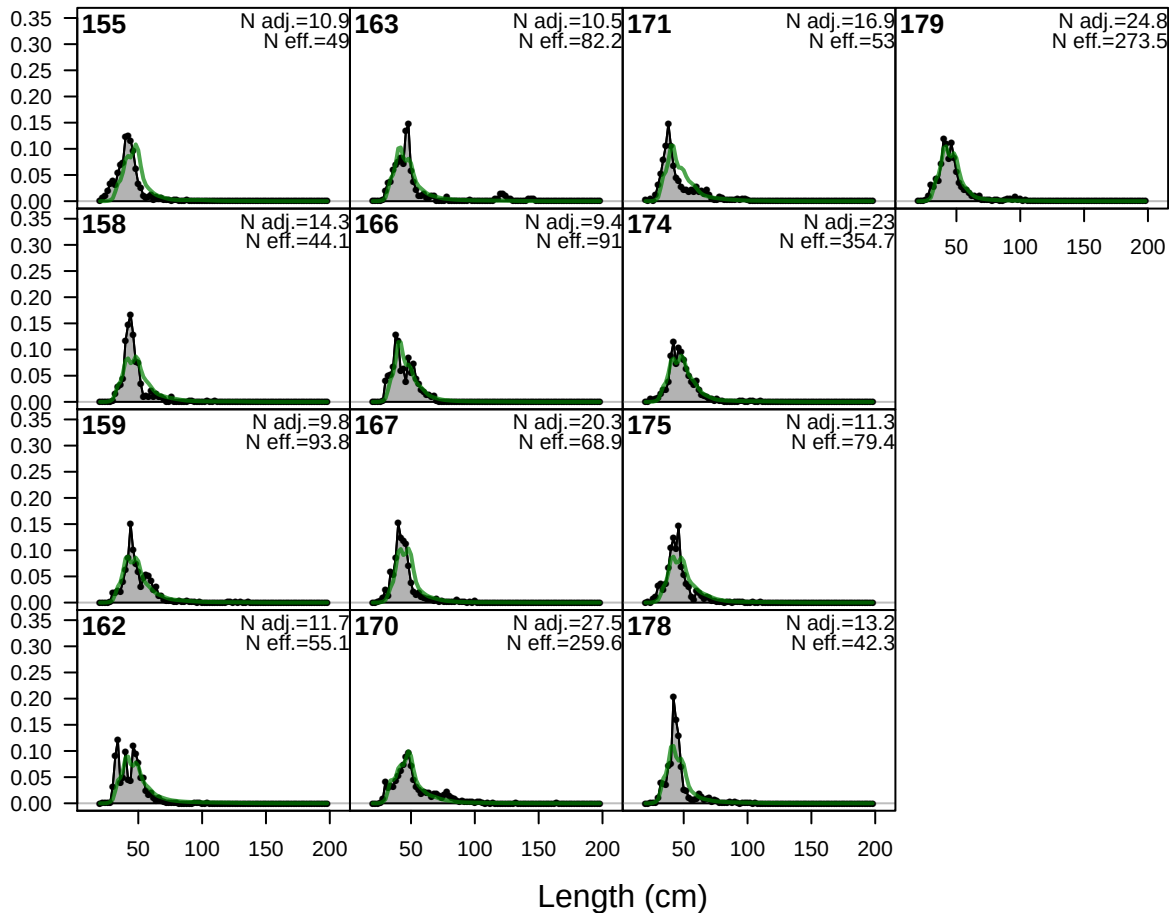


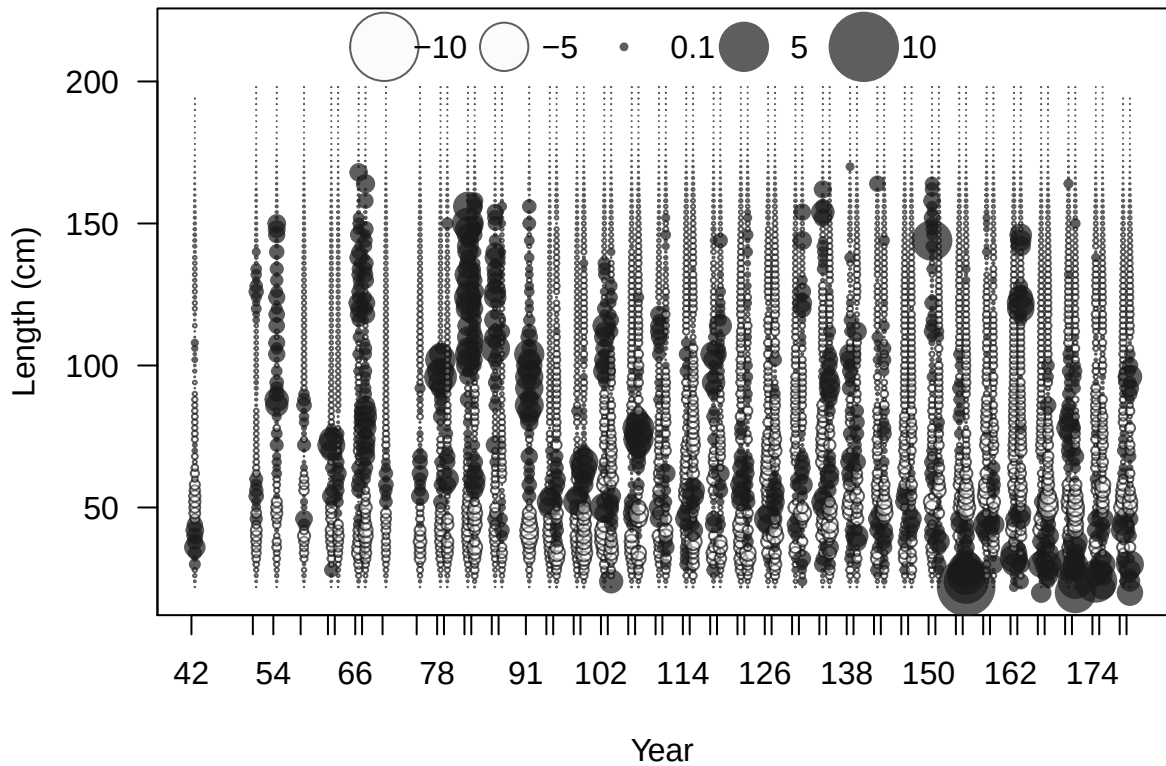




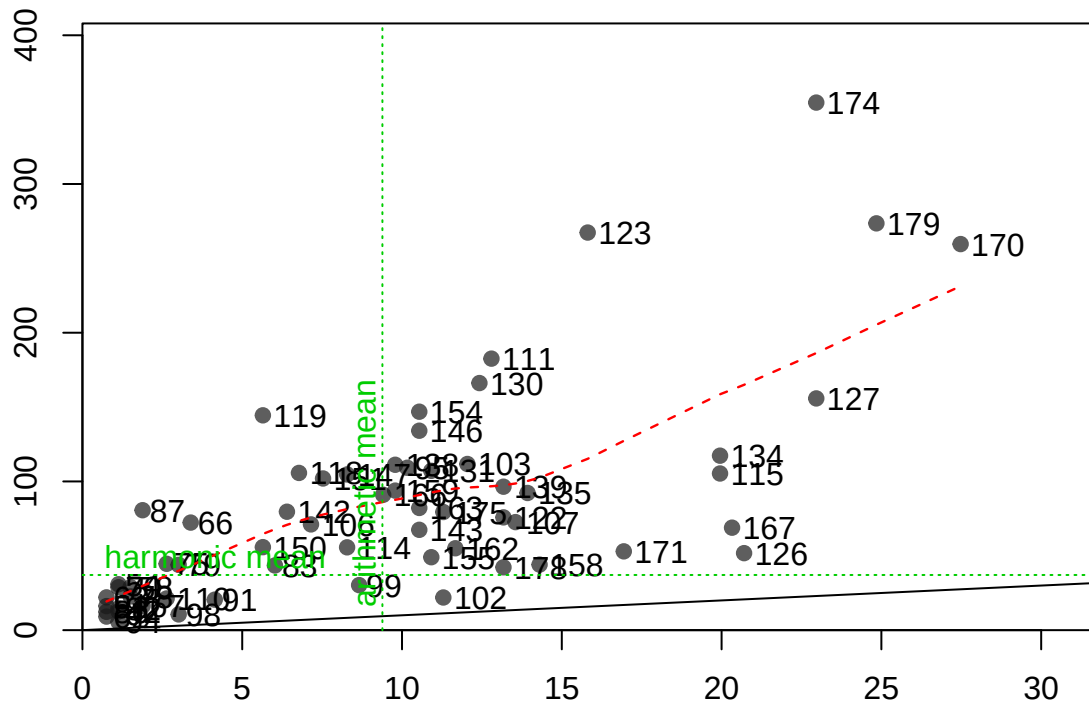


Proportion



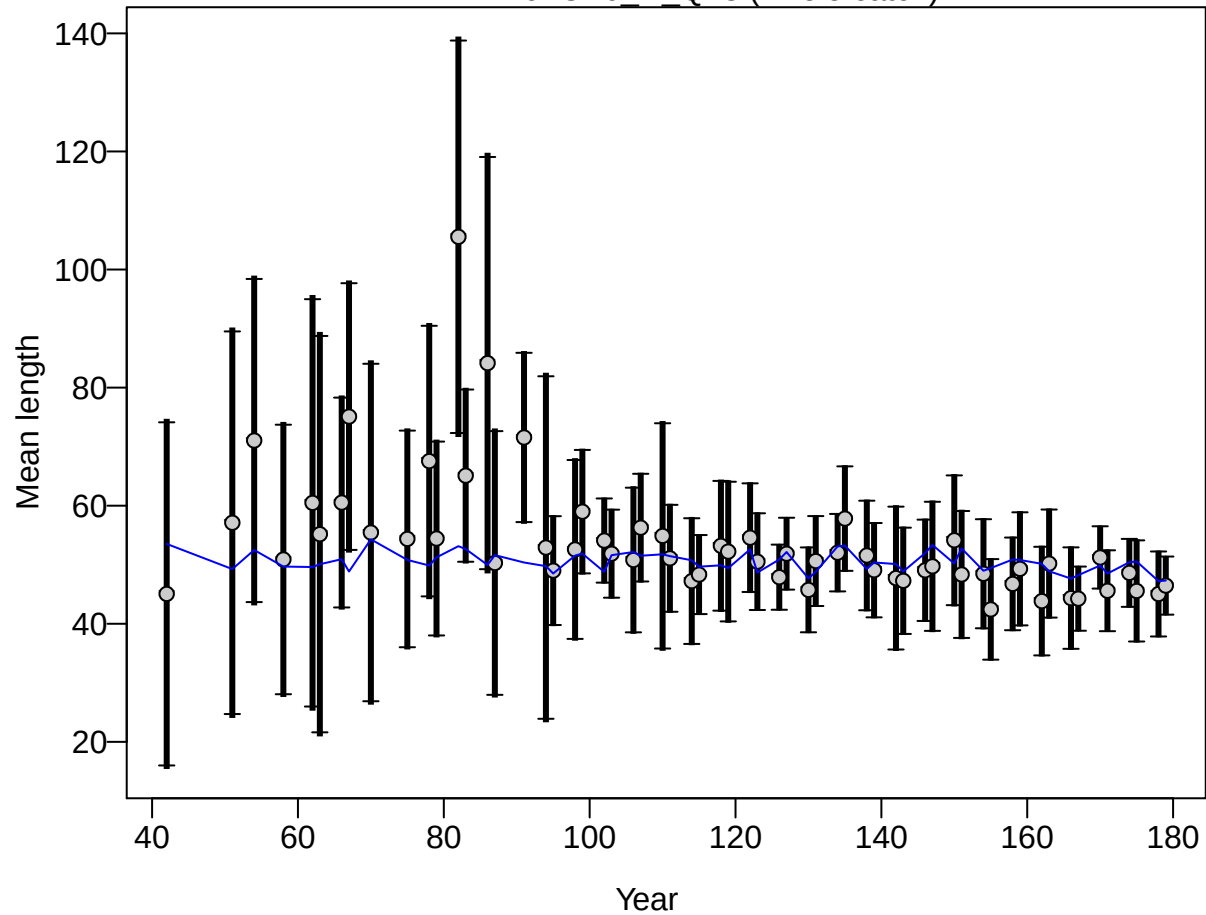


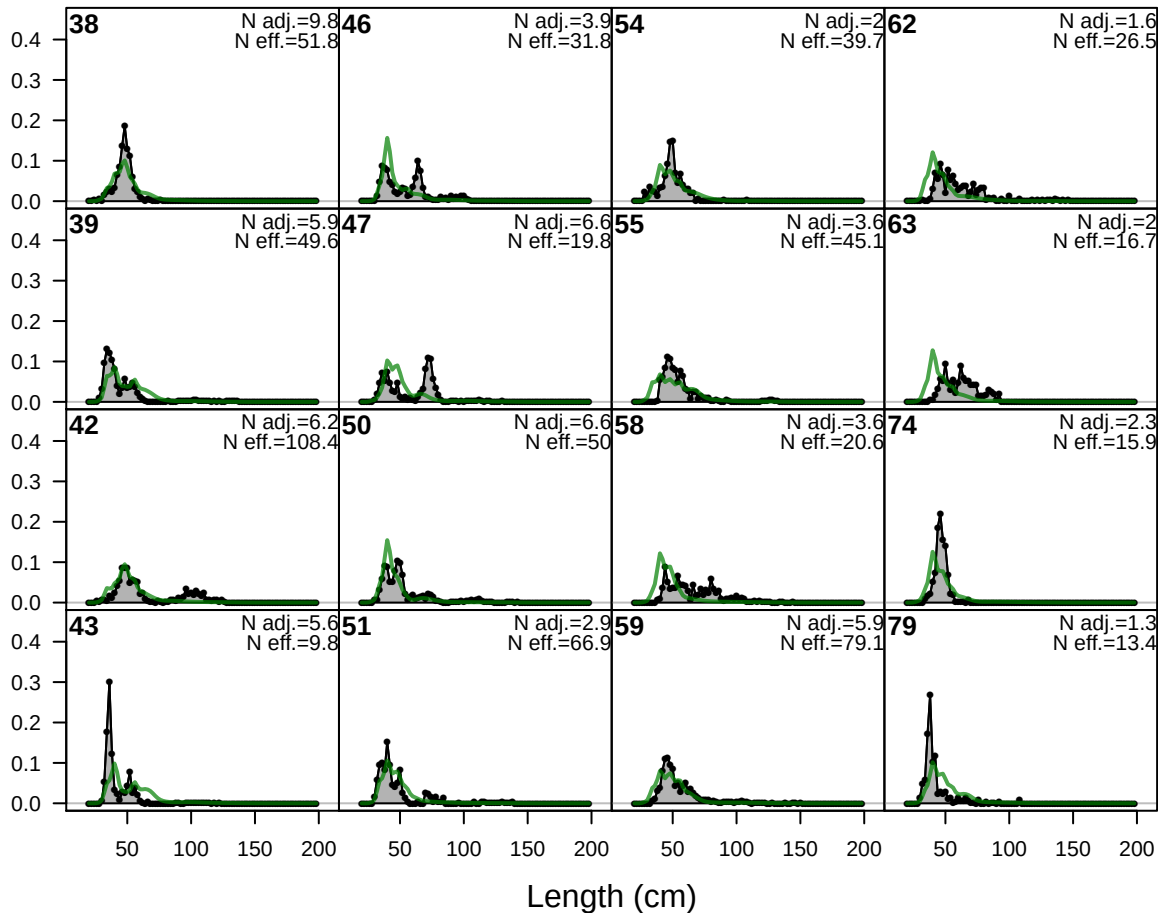
Effective sample size

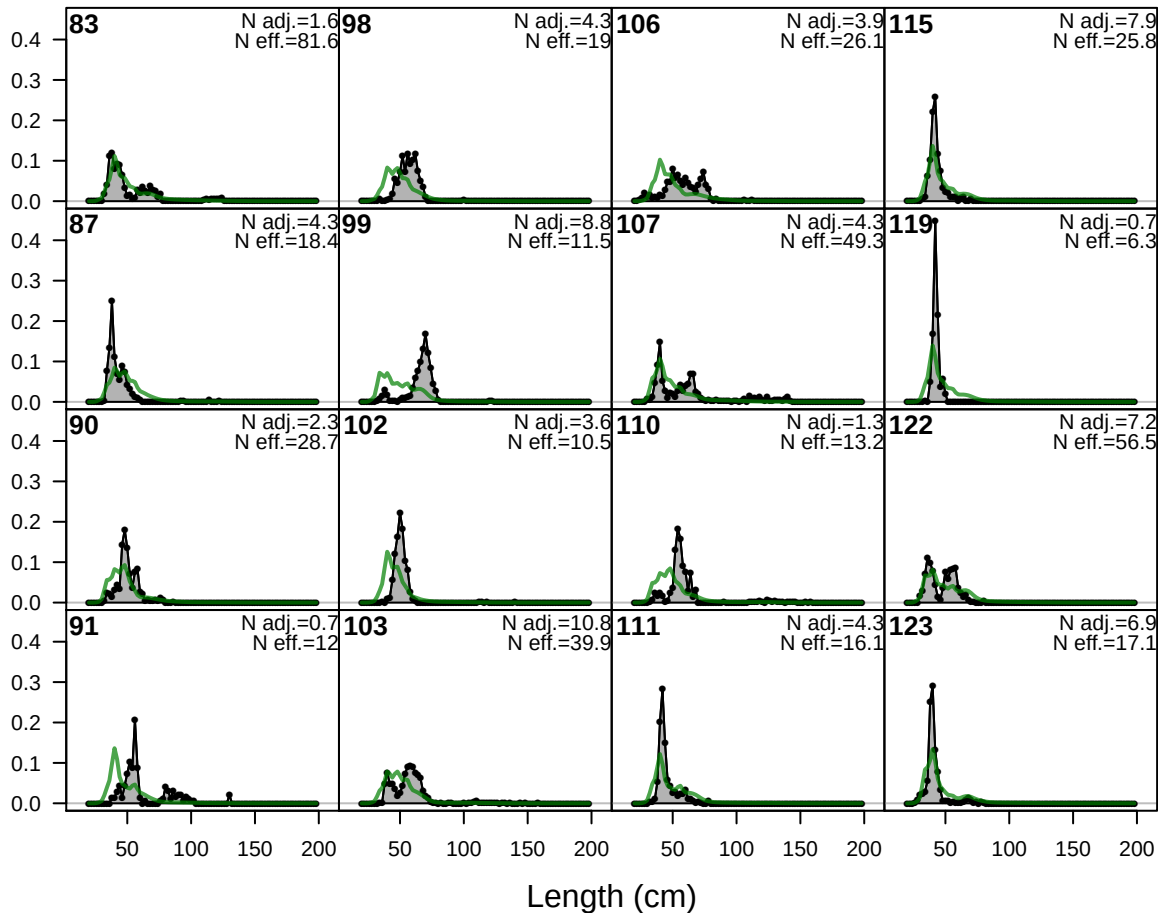


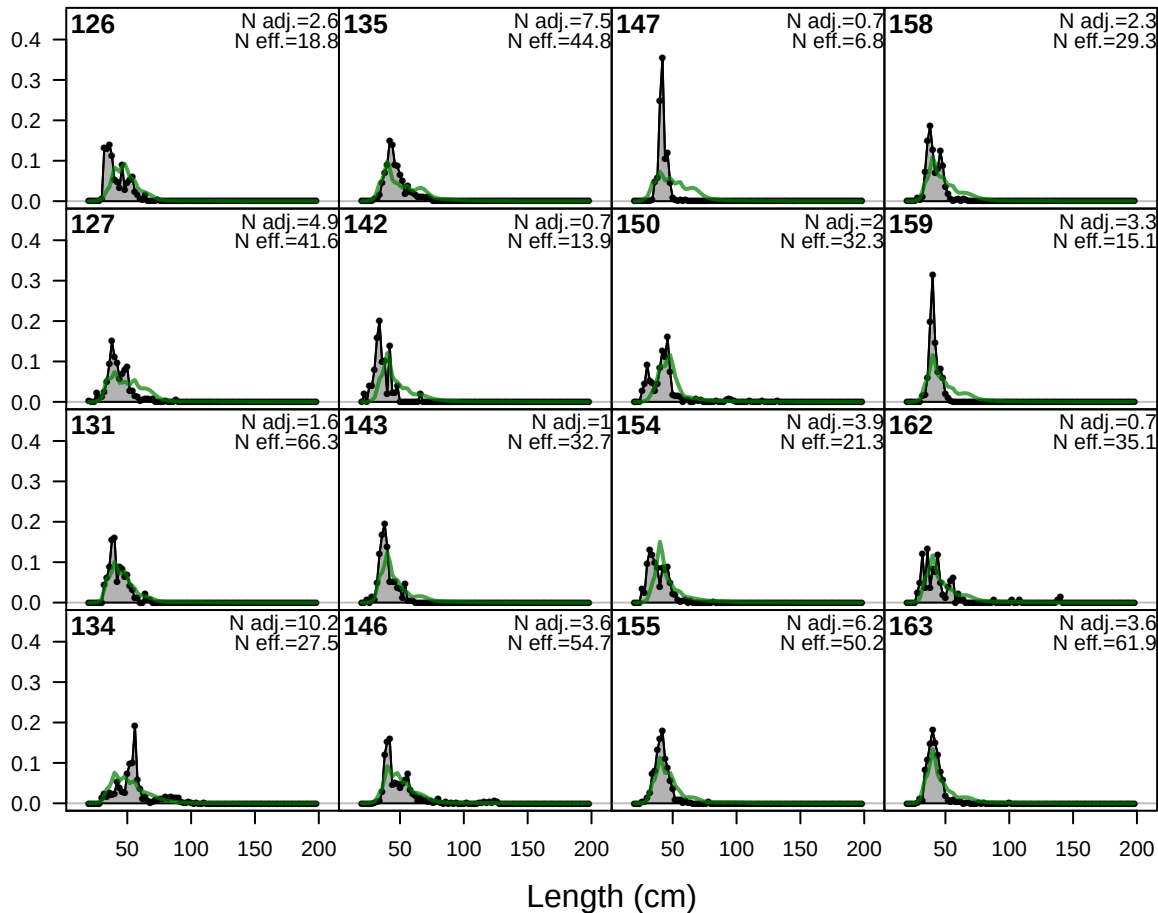
Observed sample size

F6-OBJ_N_Q23 (whole catch)

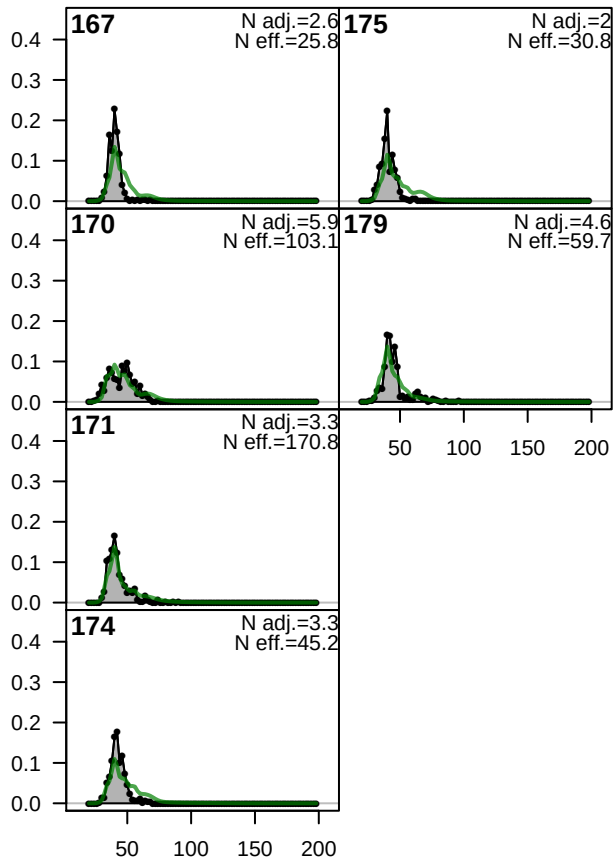


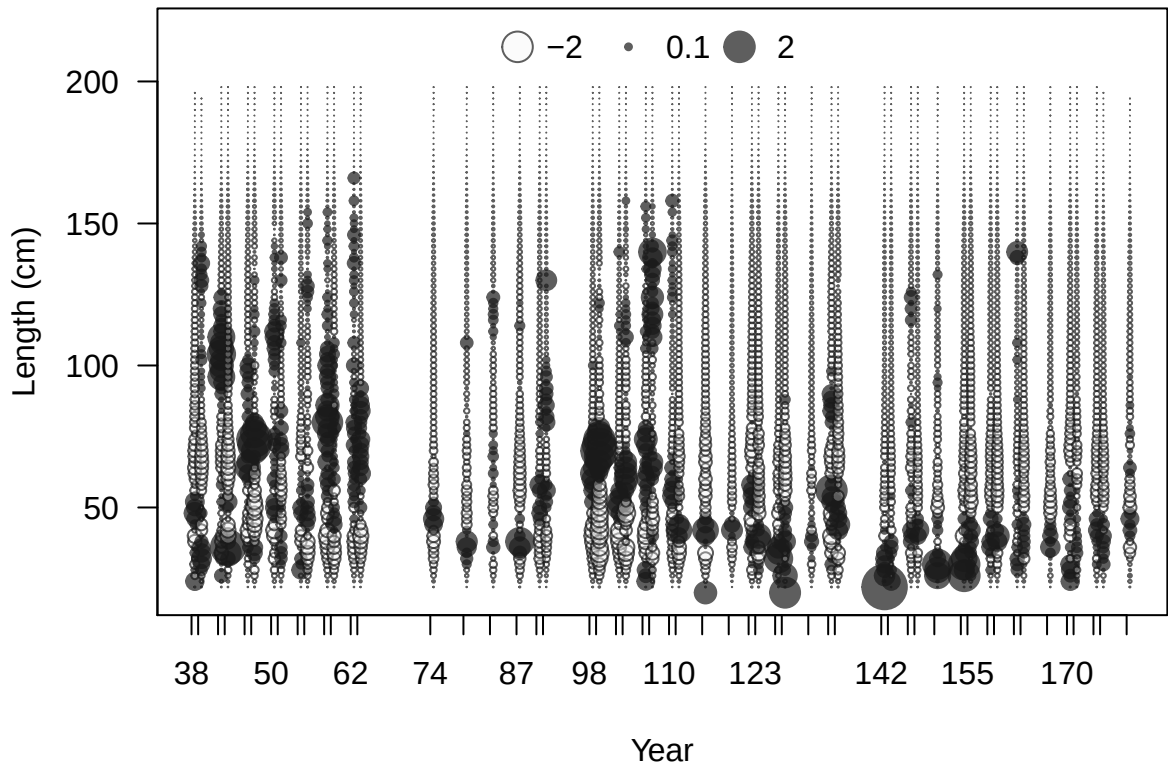




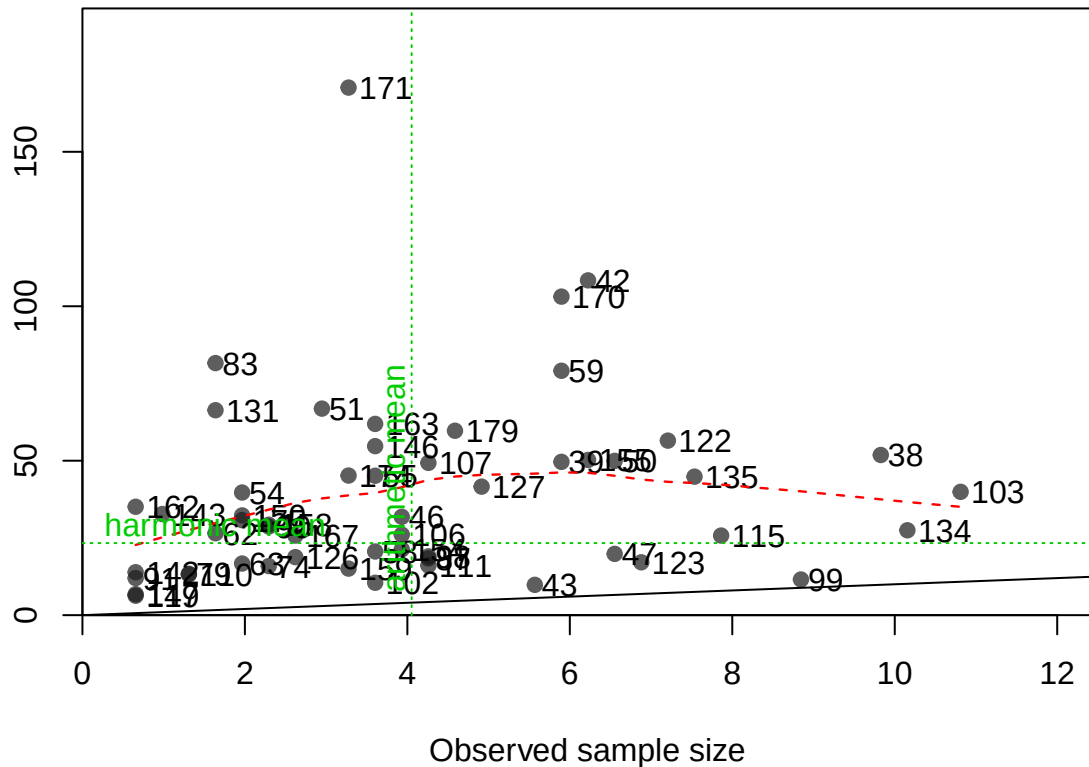


Proportion

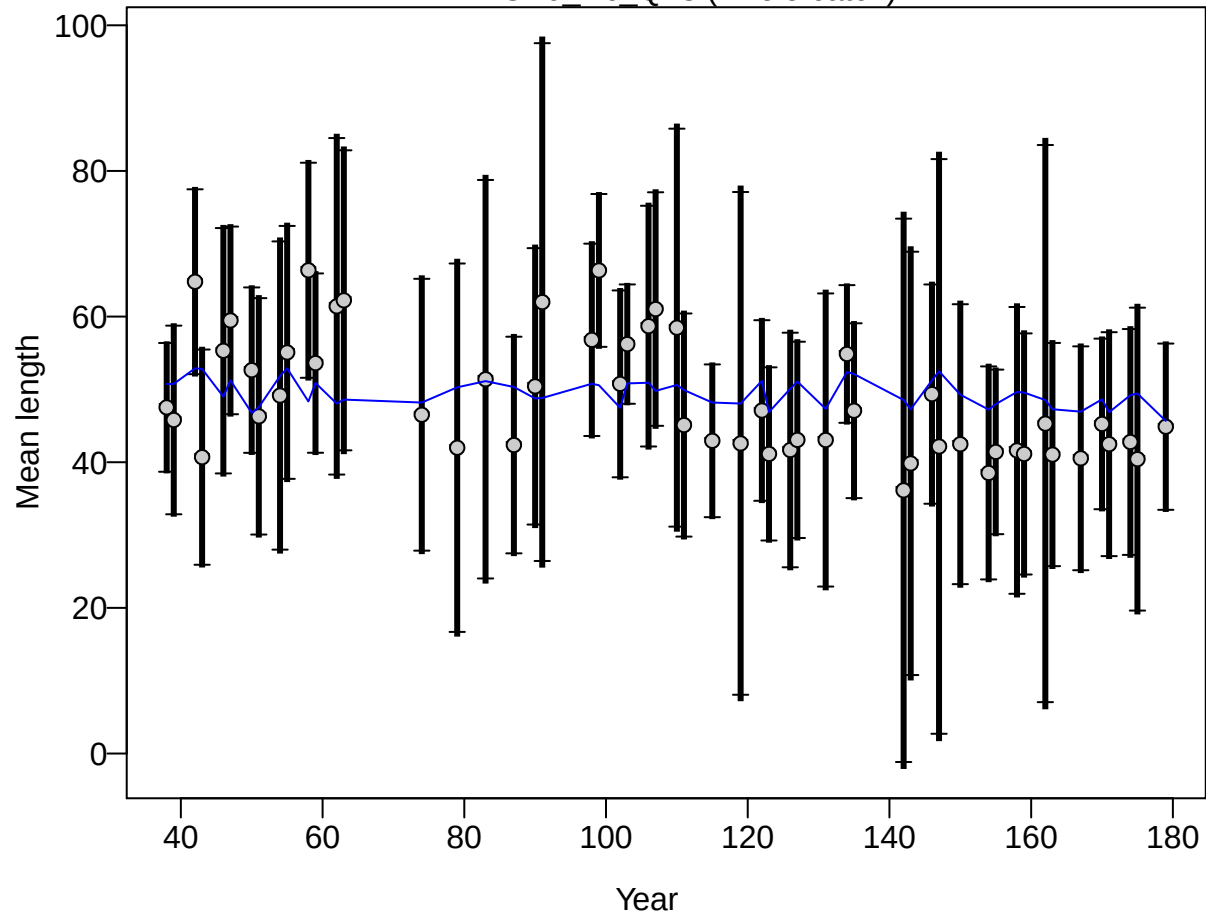


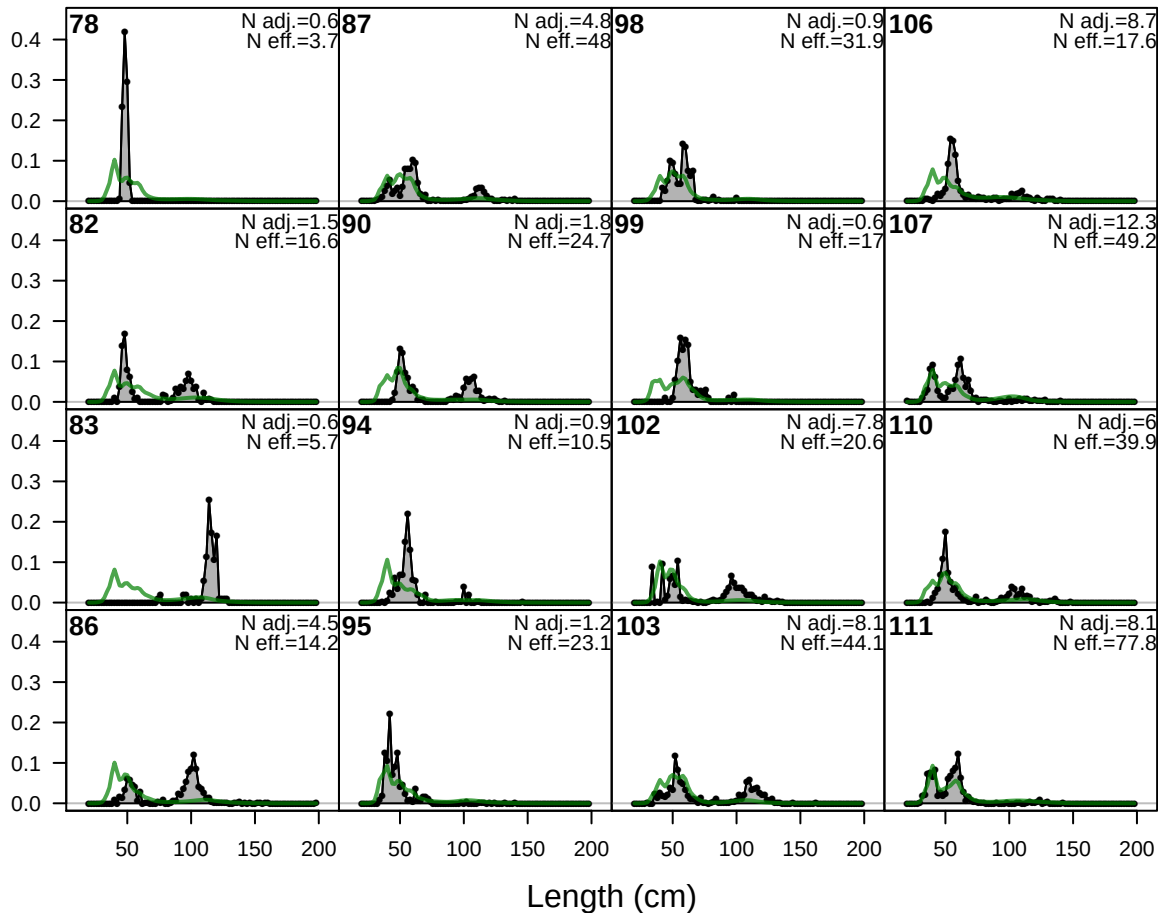


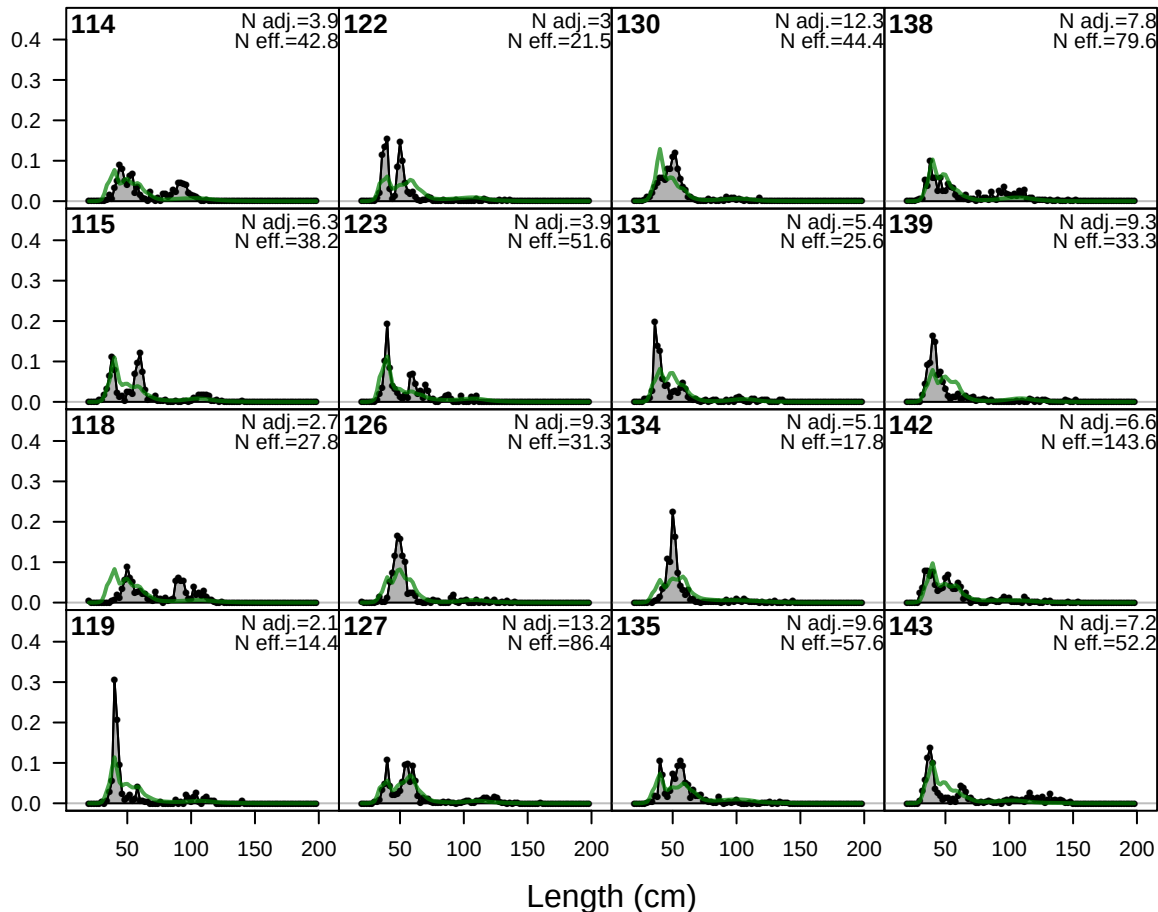
Effective sample size

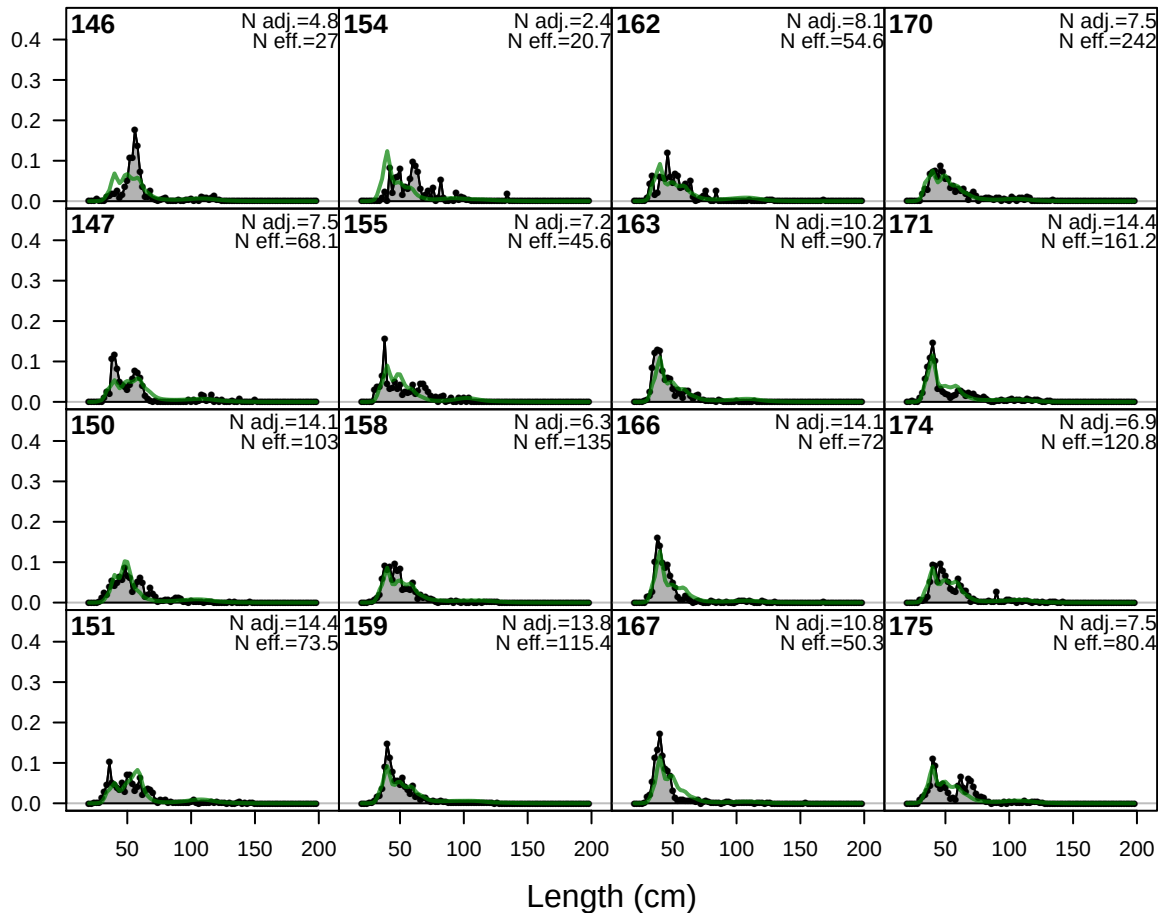


F7-OBJ_Nc_Q23 (whole catch)

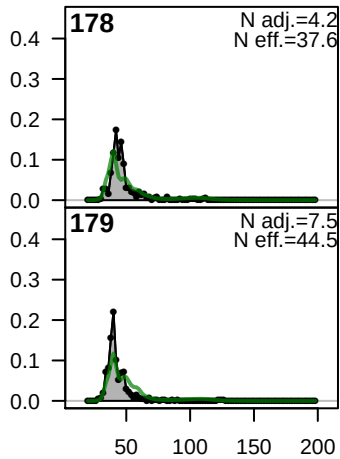




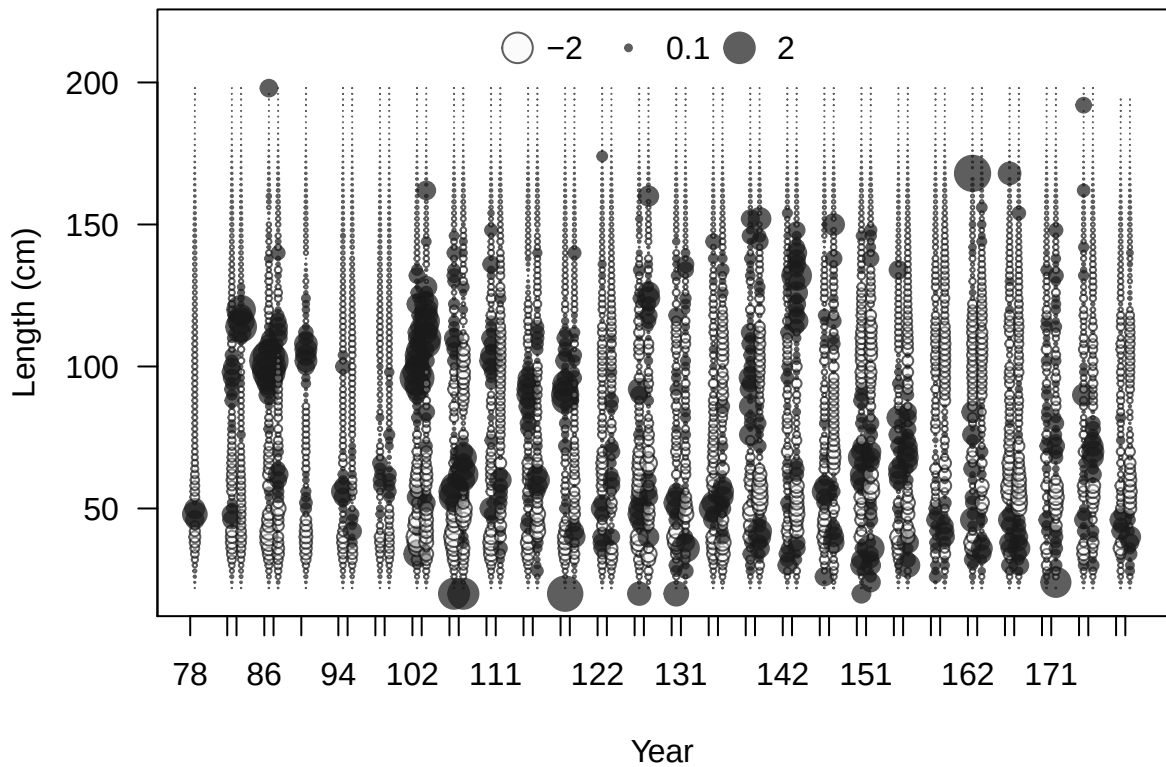




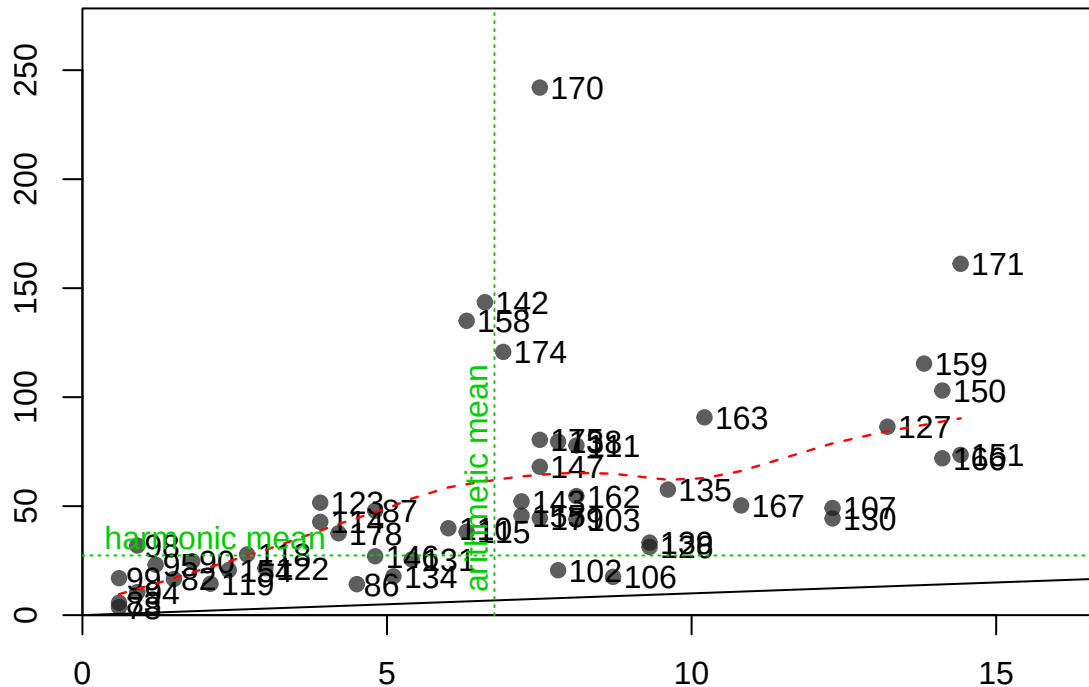
Proportion



Length (cm)

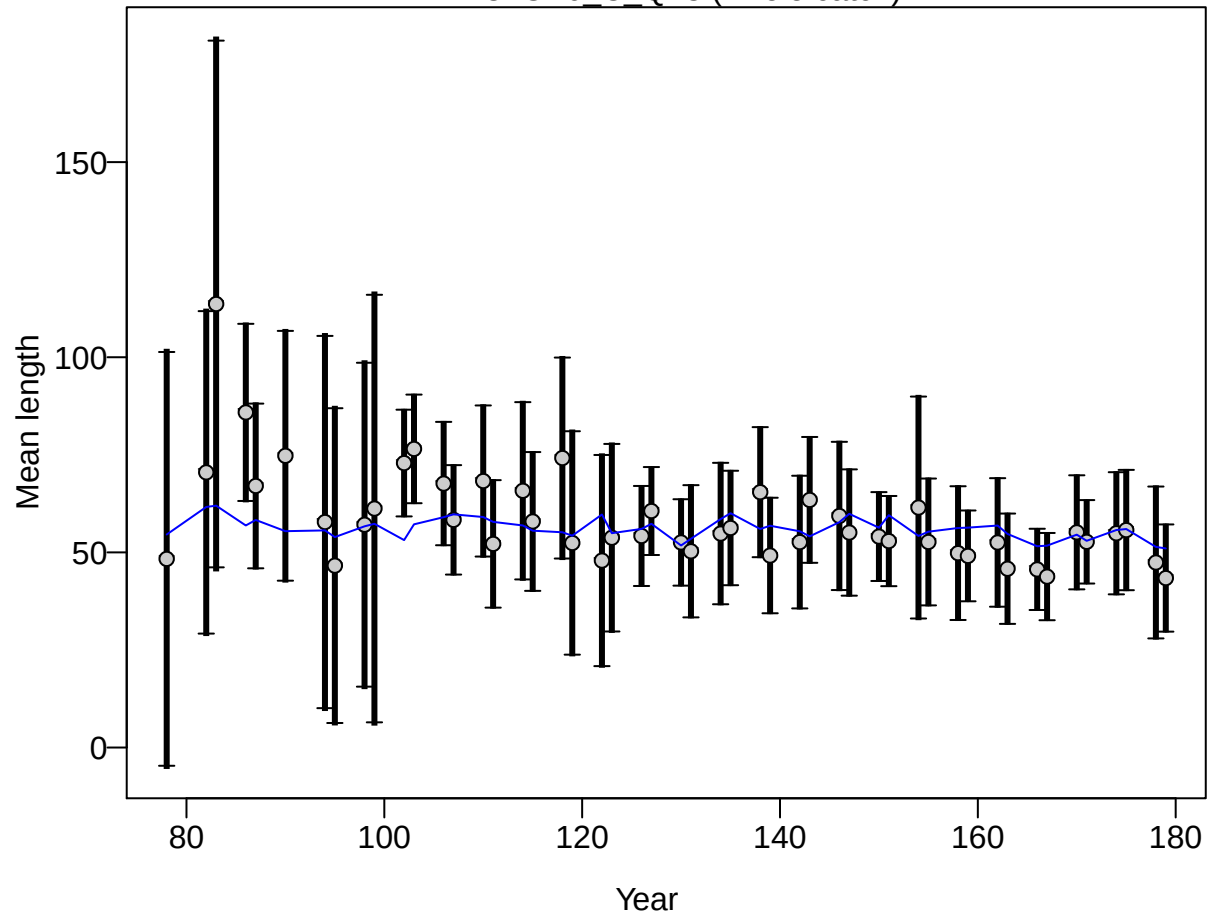


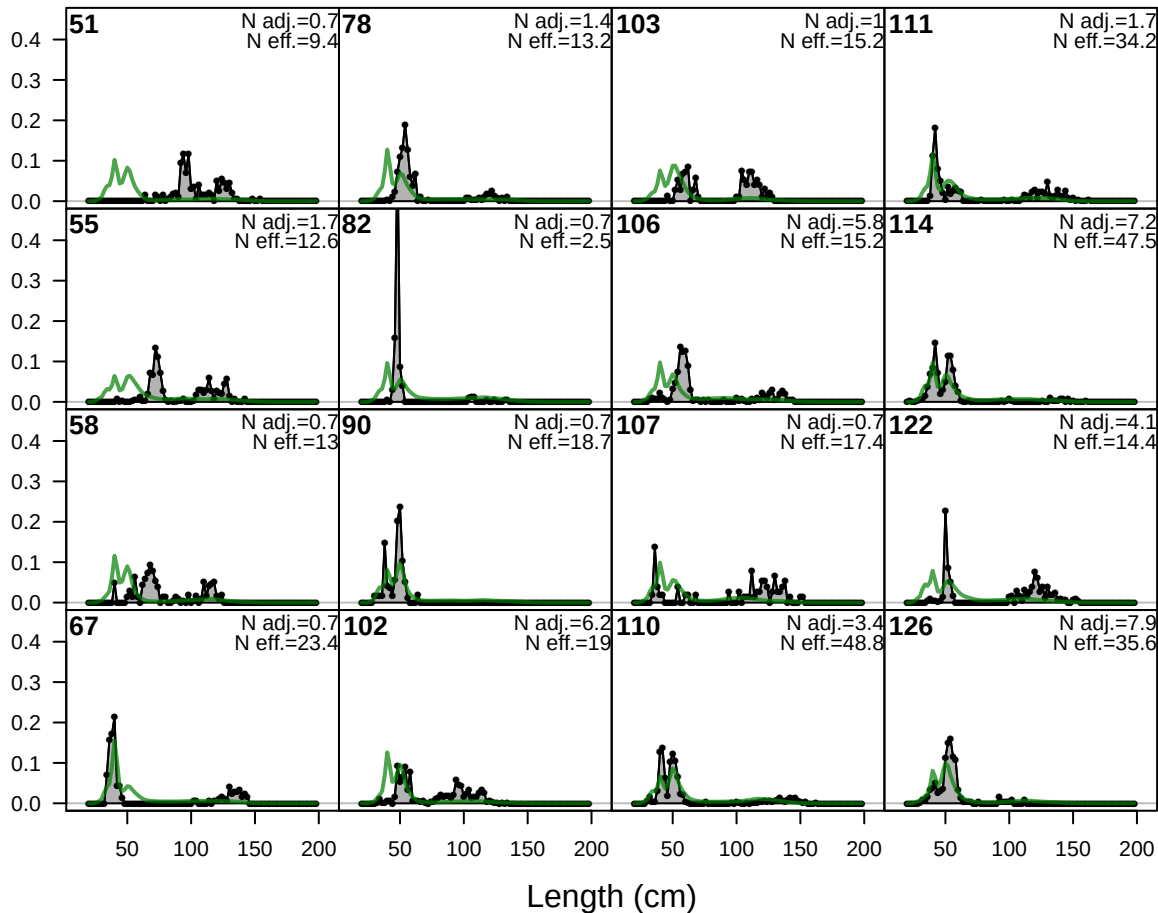
Effective sample size



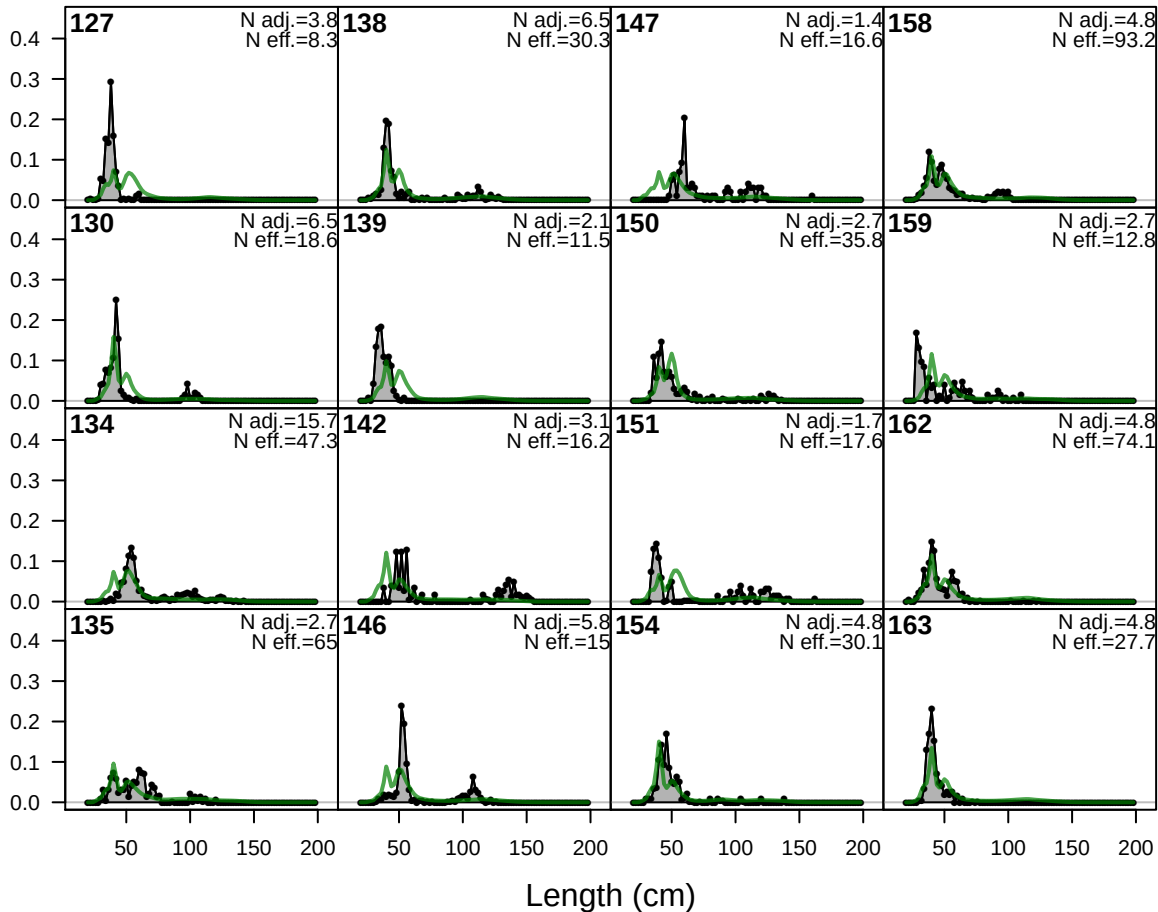
Observed sample size

F8-OBJ_C_Q23 (whole catch)

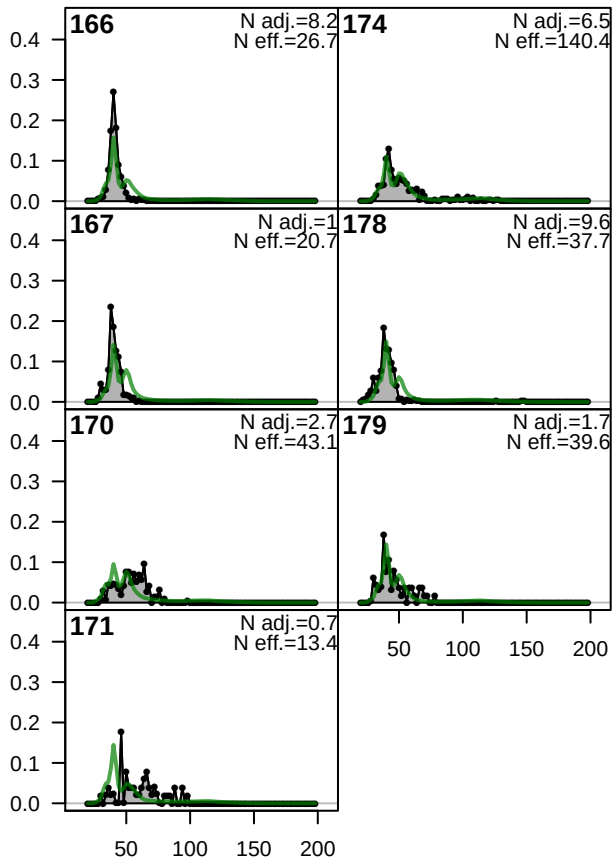




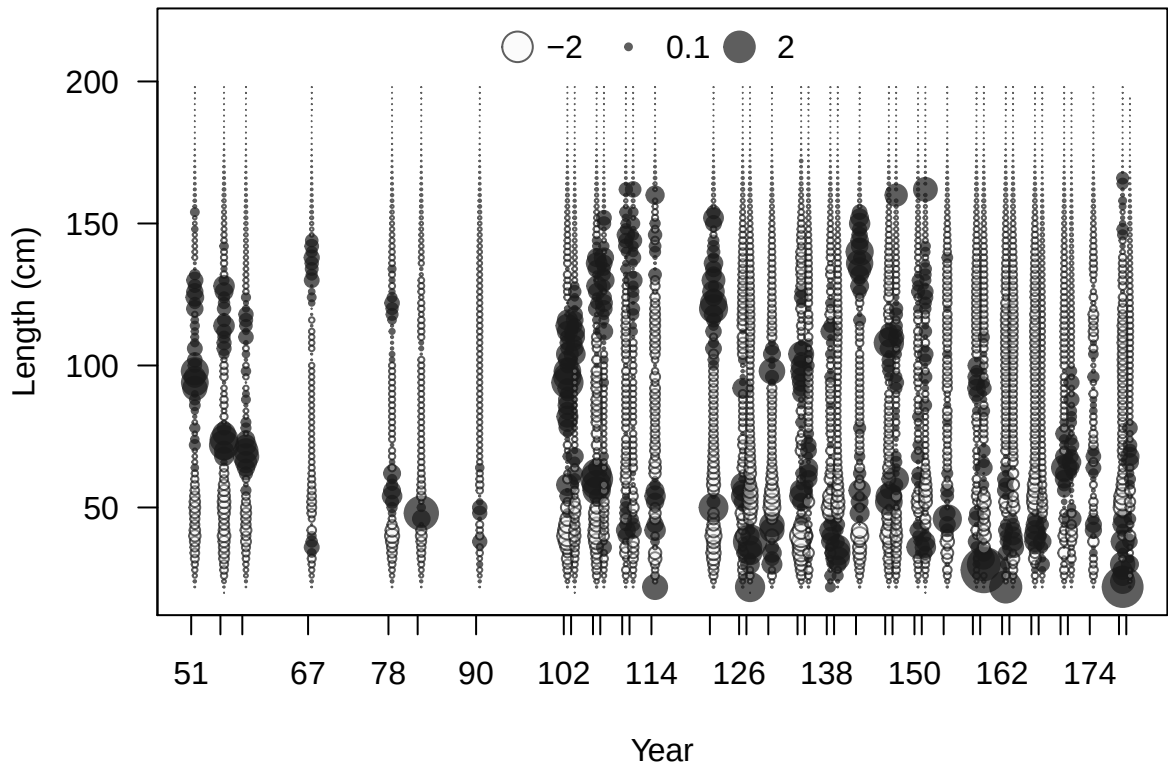
Proportion



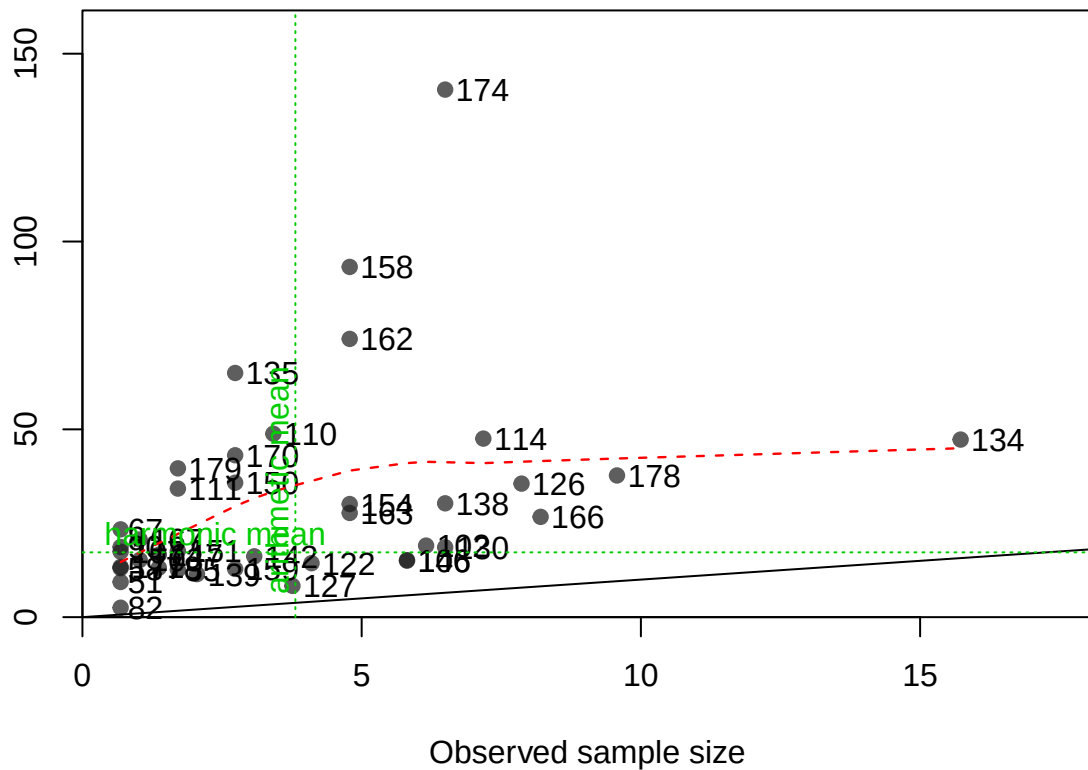
Proportion



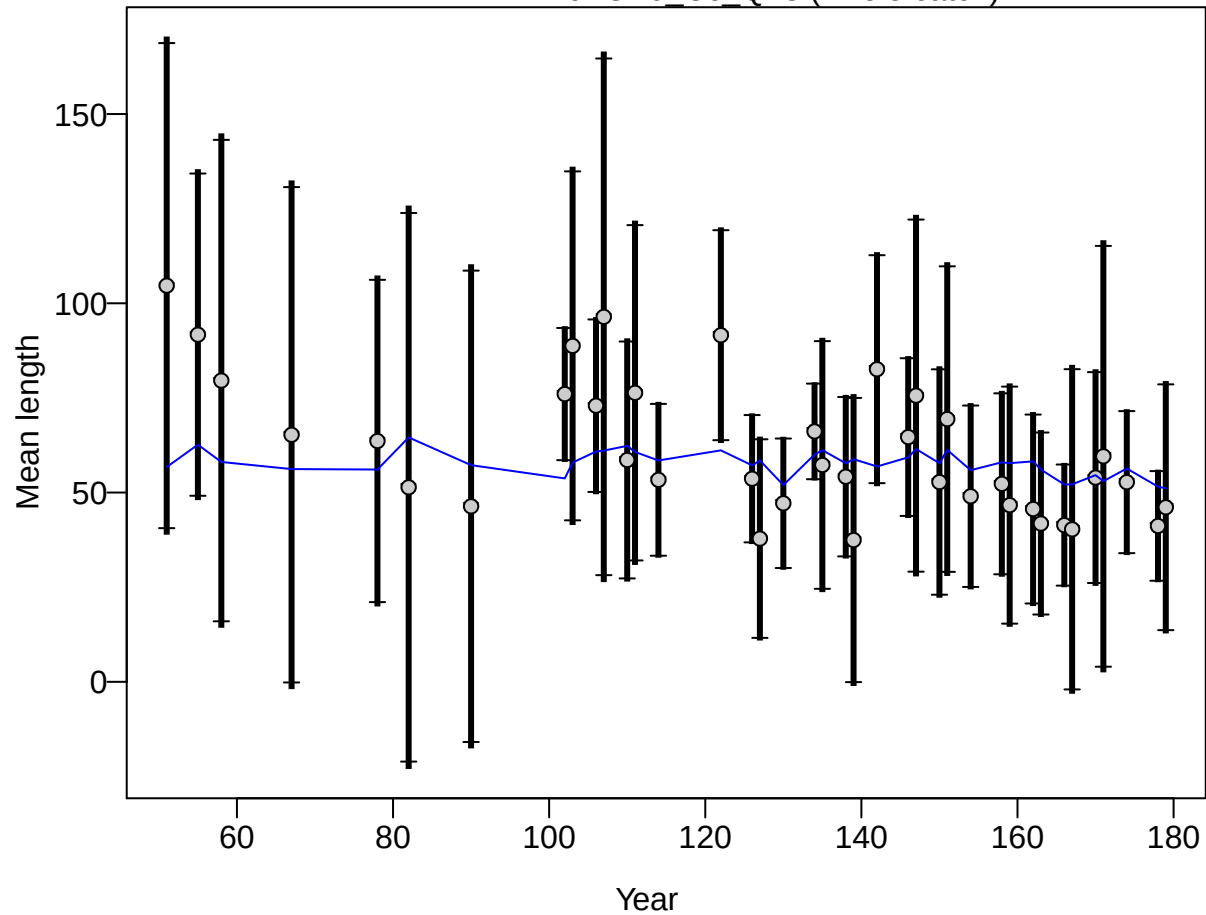
Length (cm)

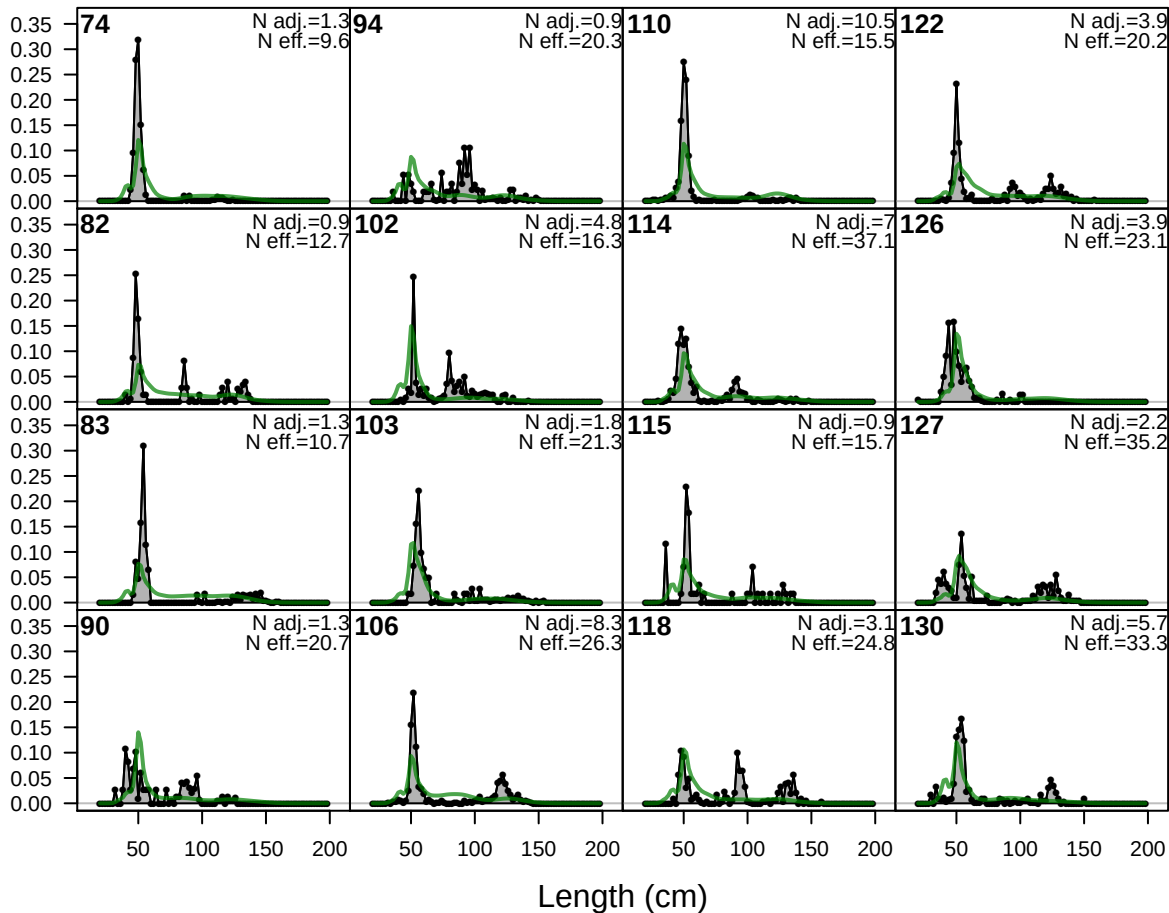


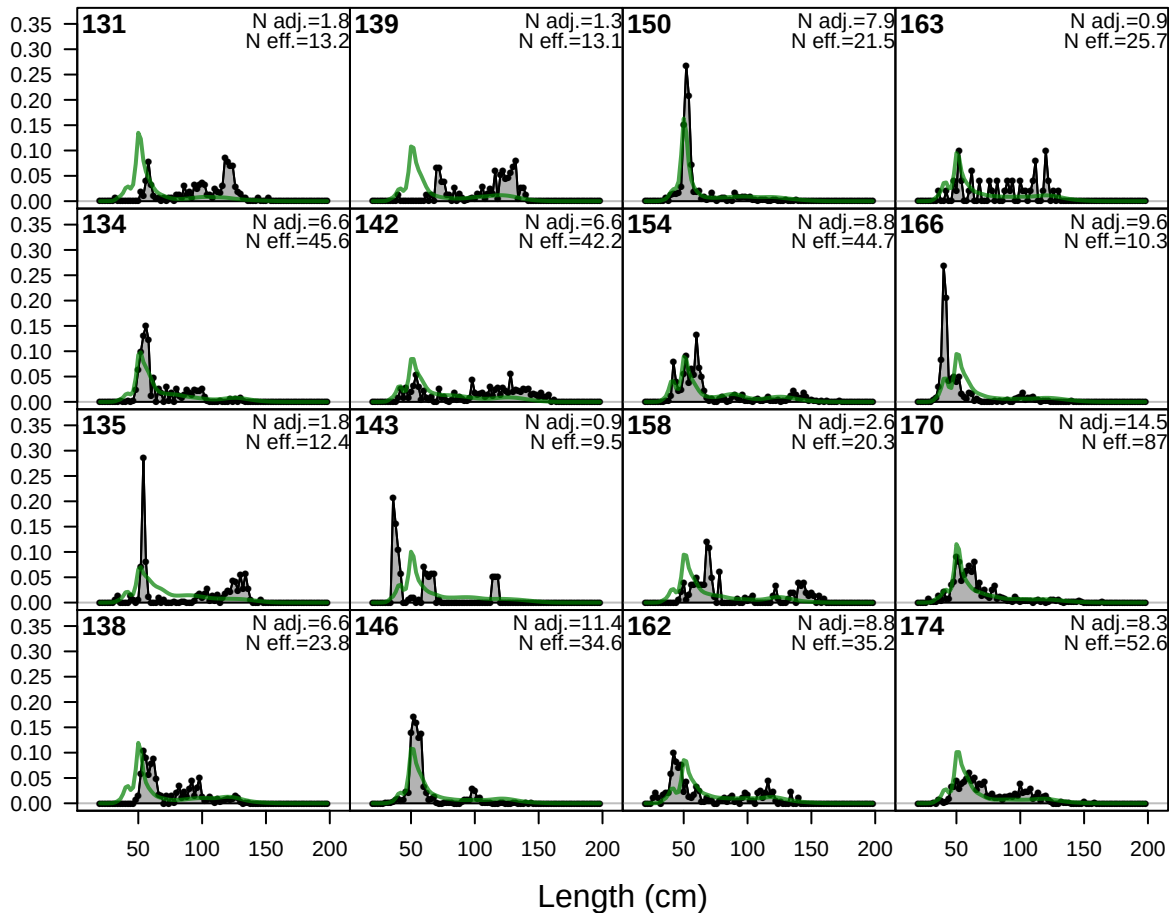
Effective sample size



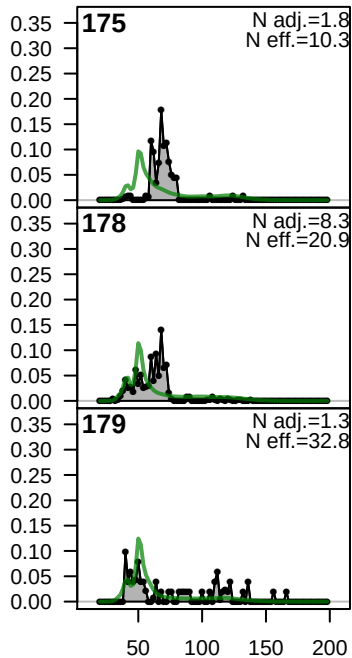
F9-OBJ Cc Q23 (whole catch)



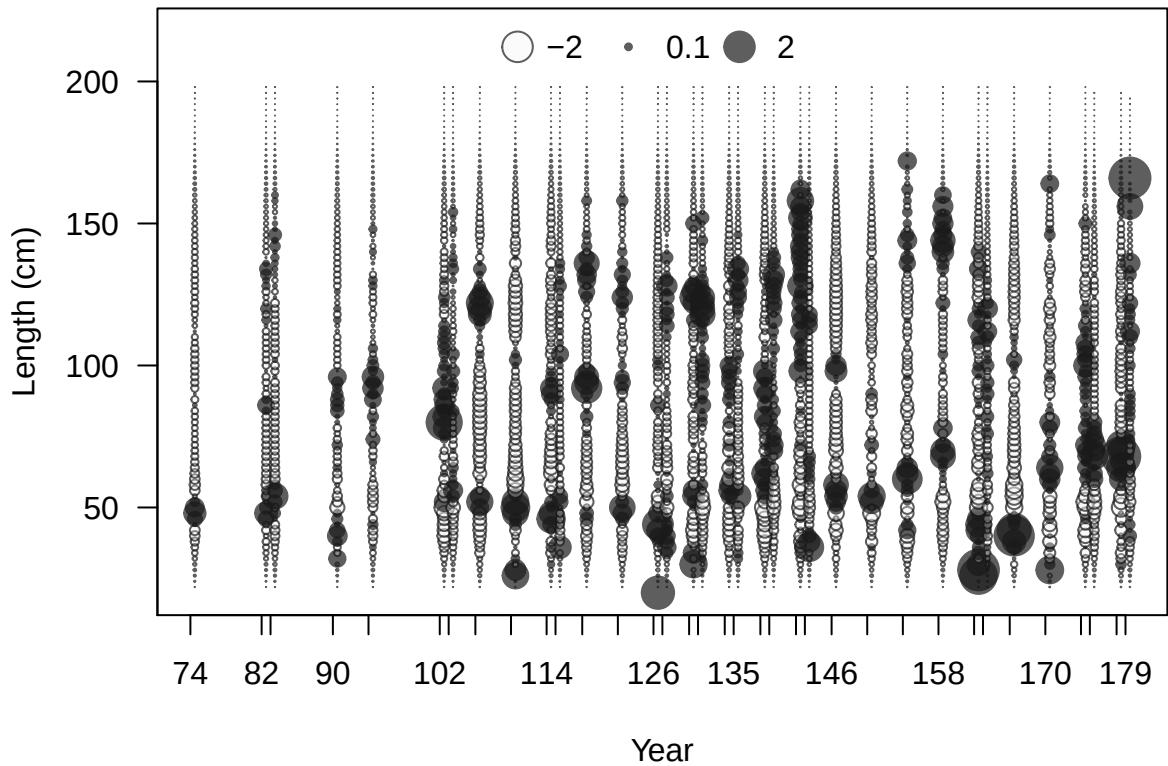


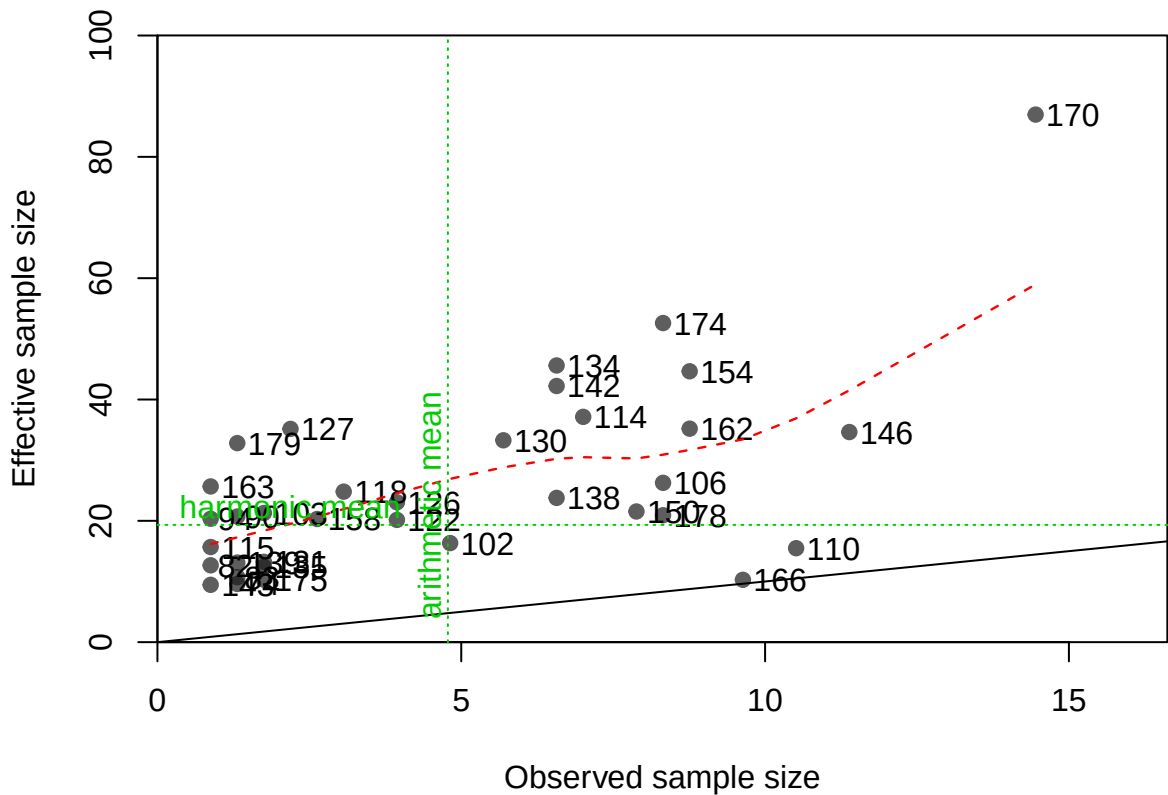


Proportion

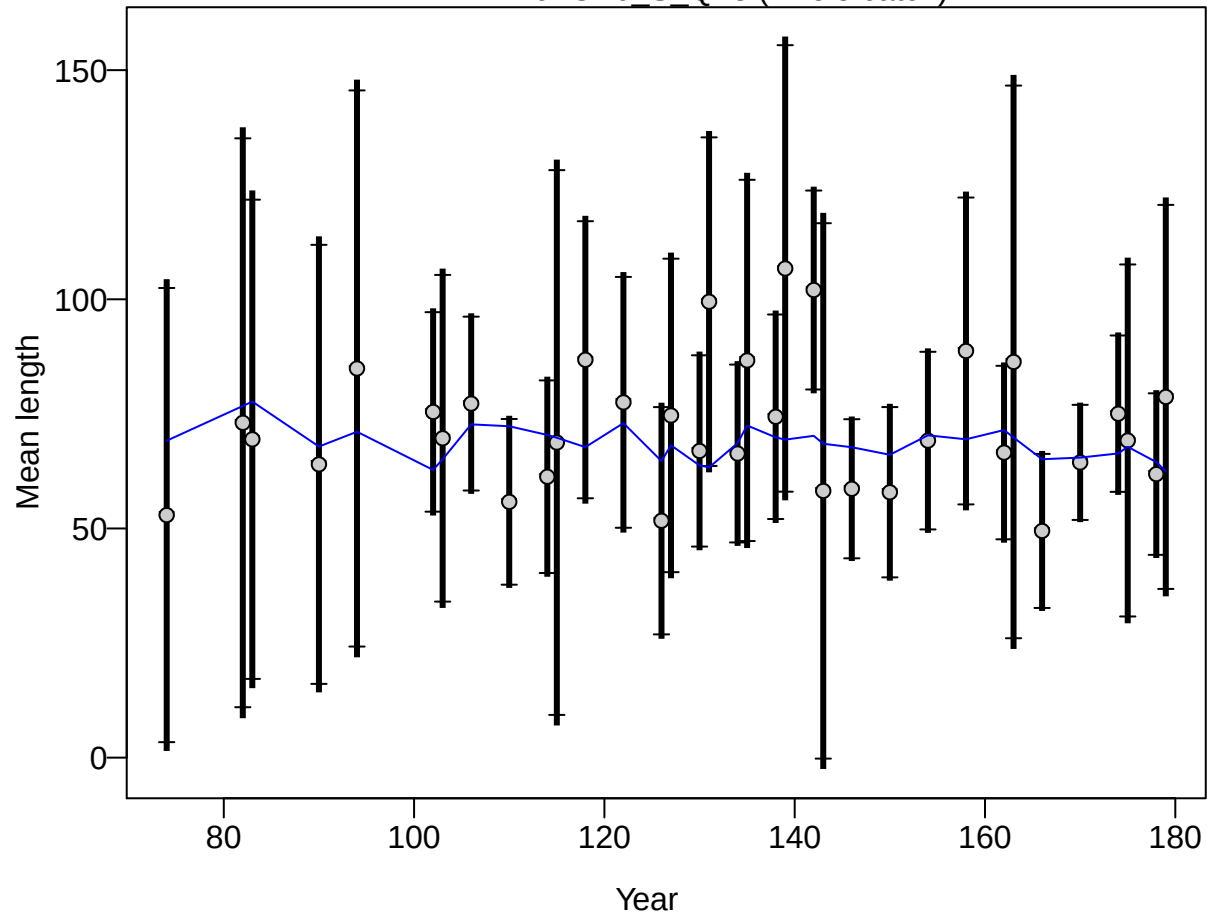


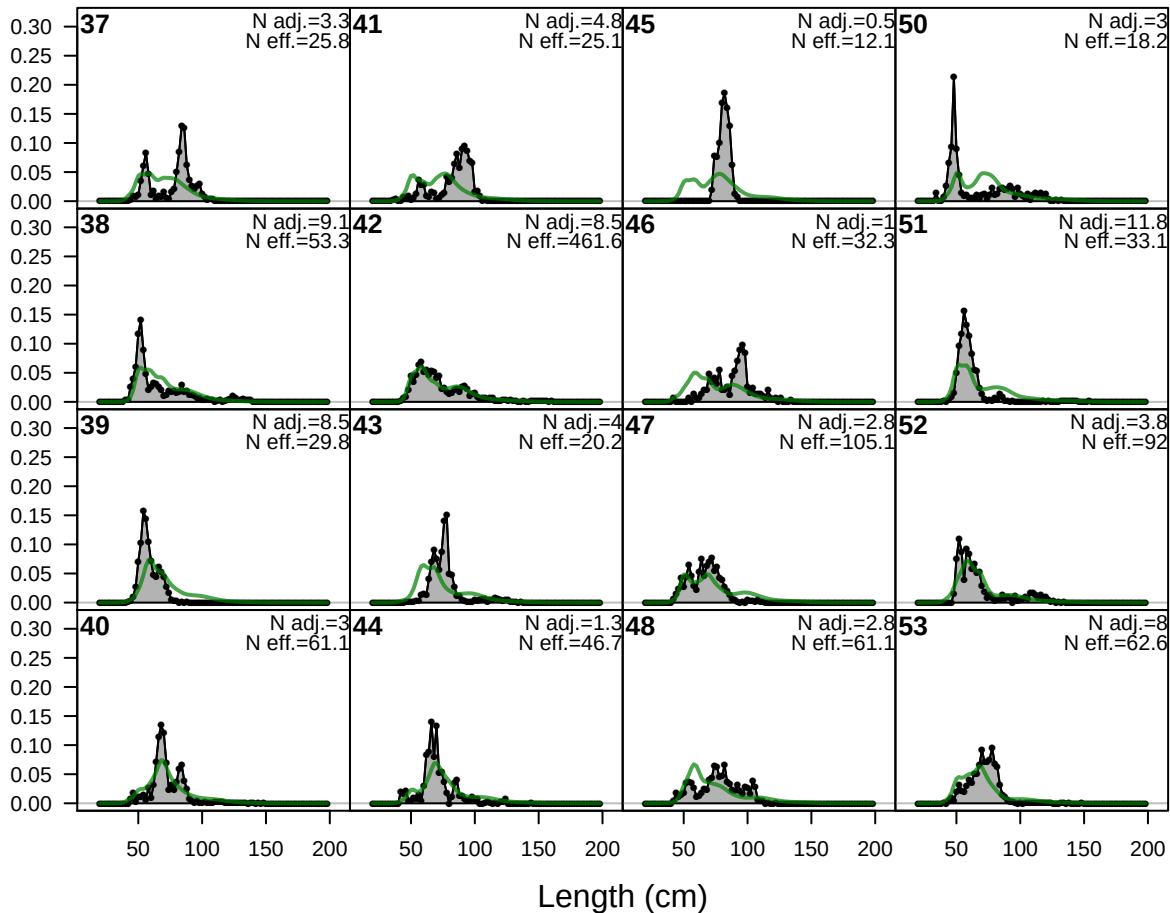
Length (cm)

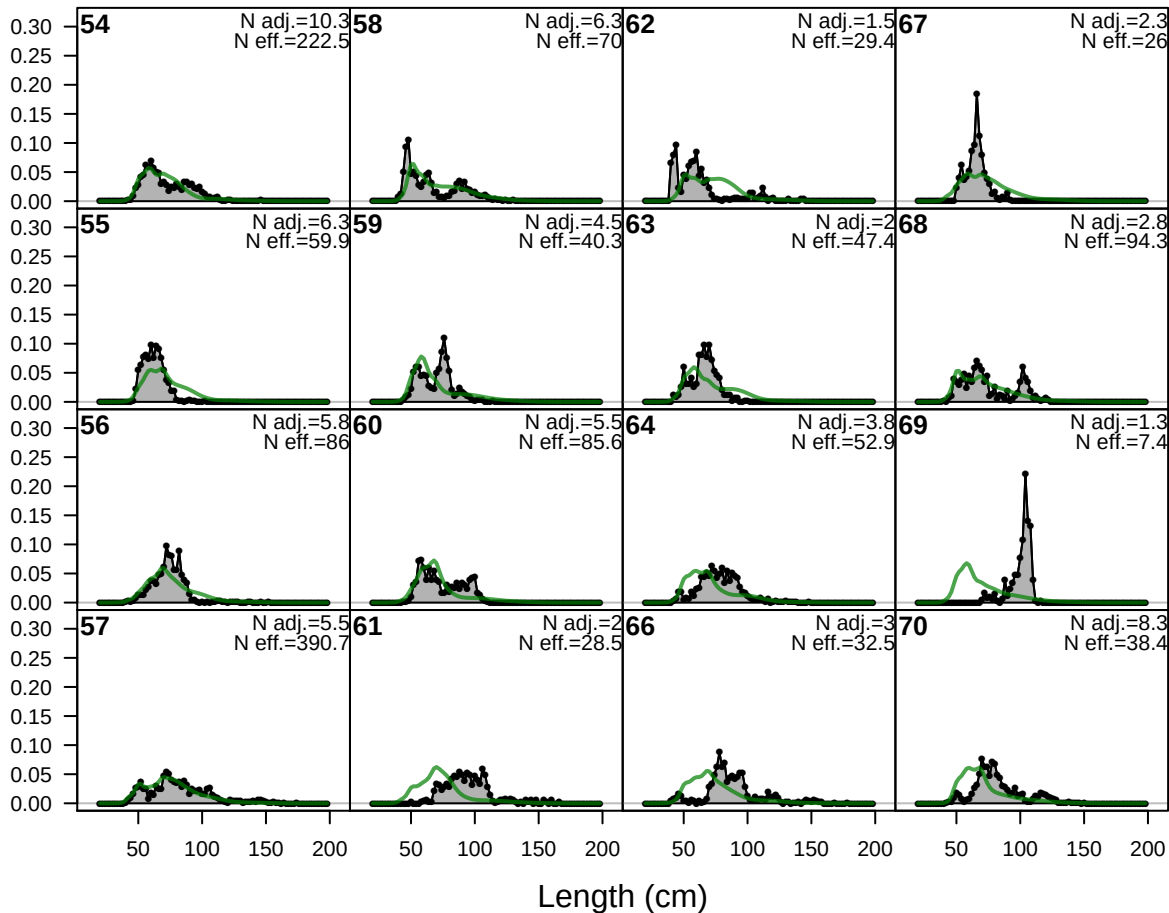


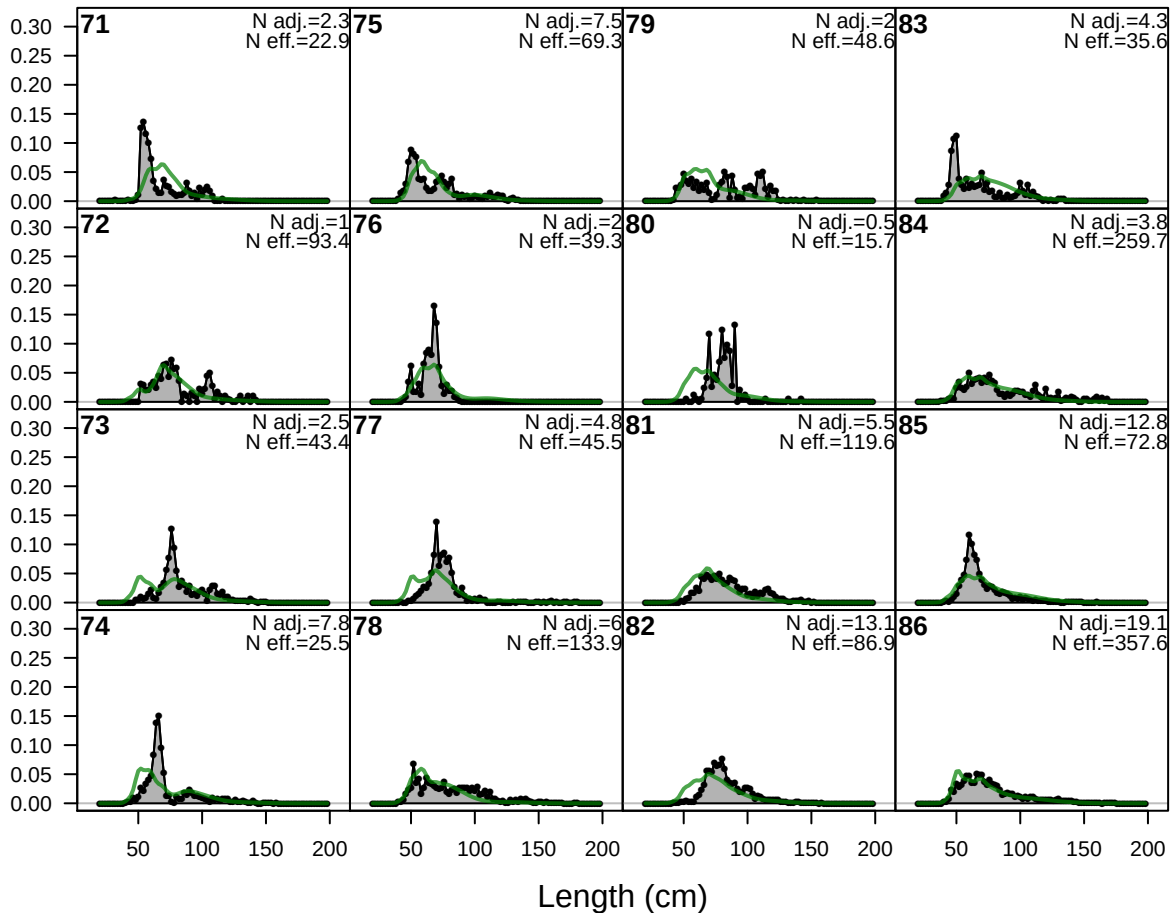


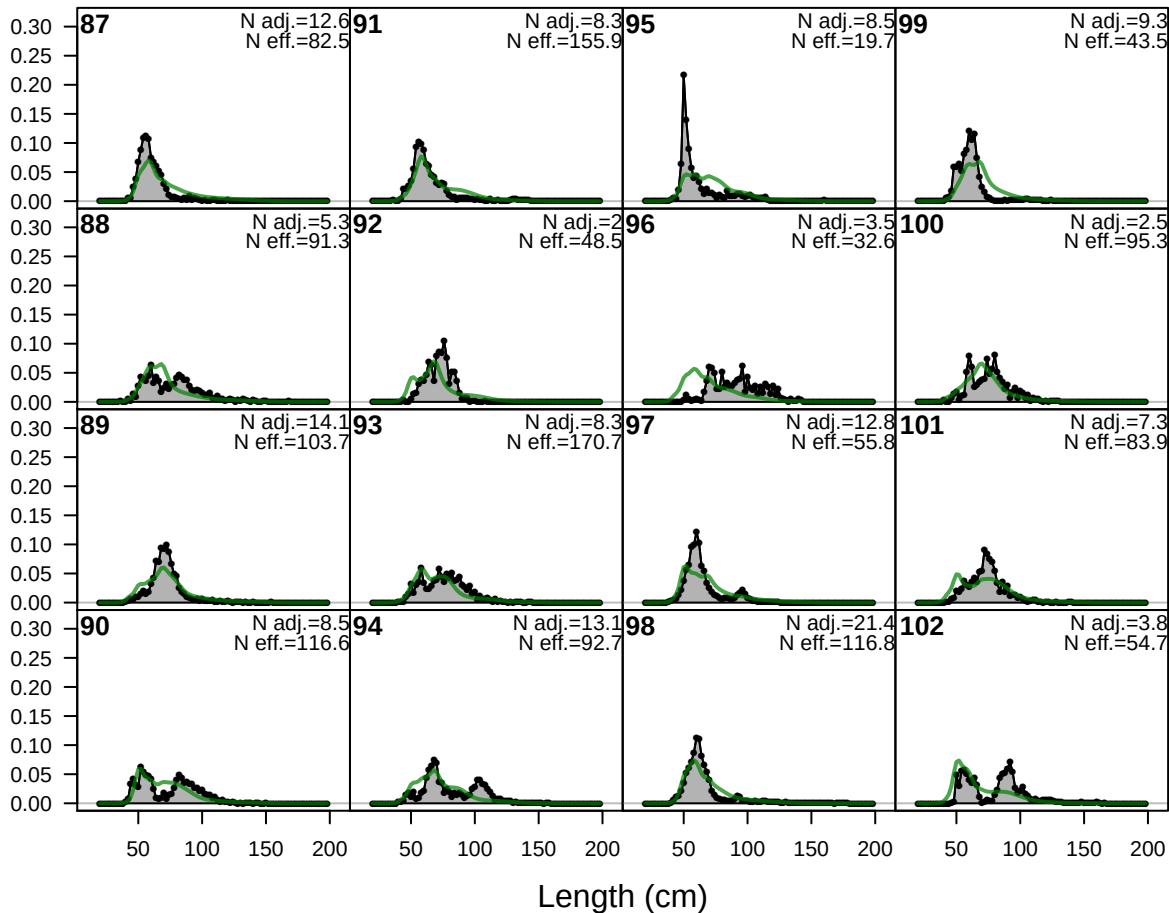
F10-OBJ_S_Q23 (whole catch)

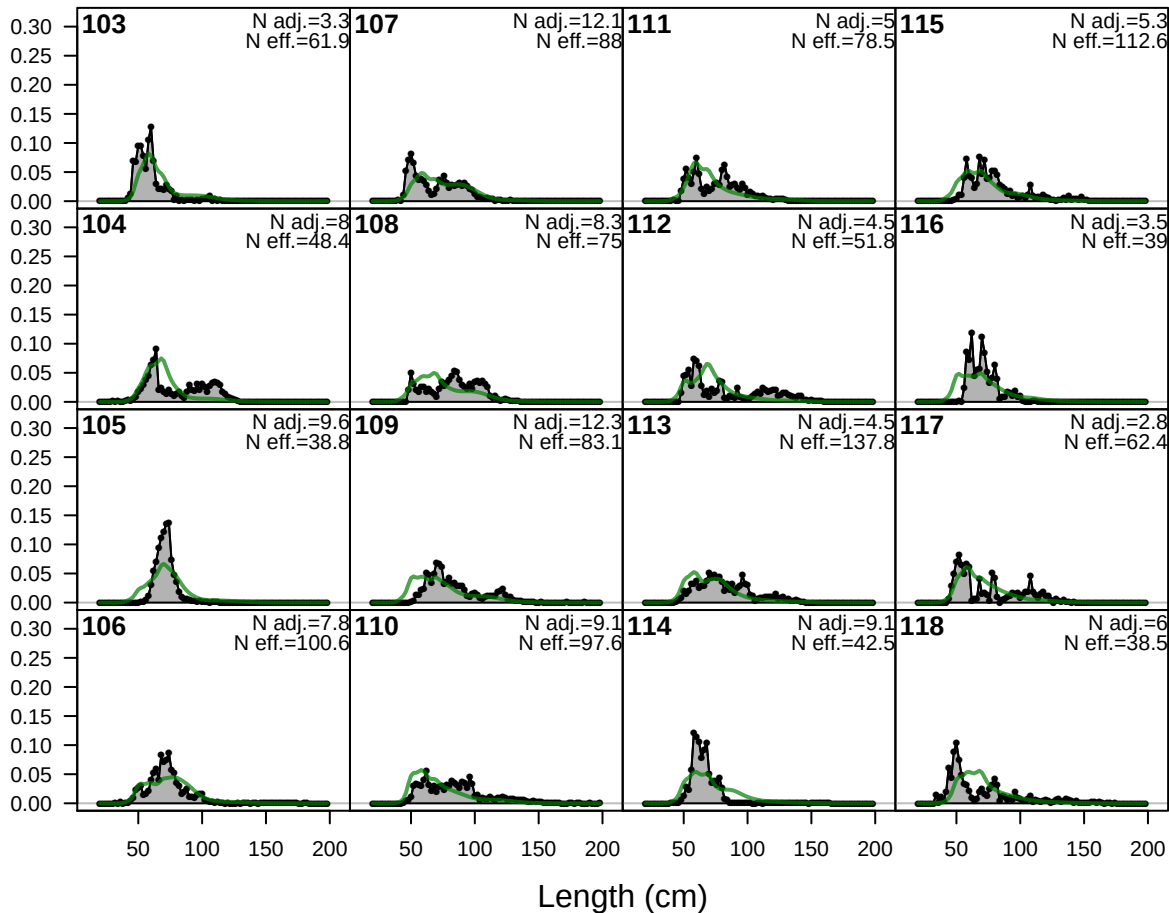


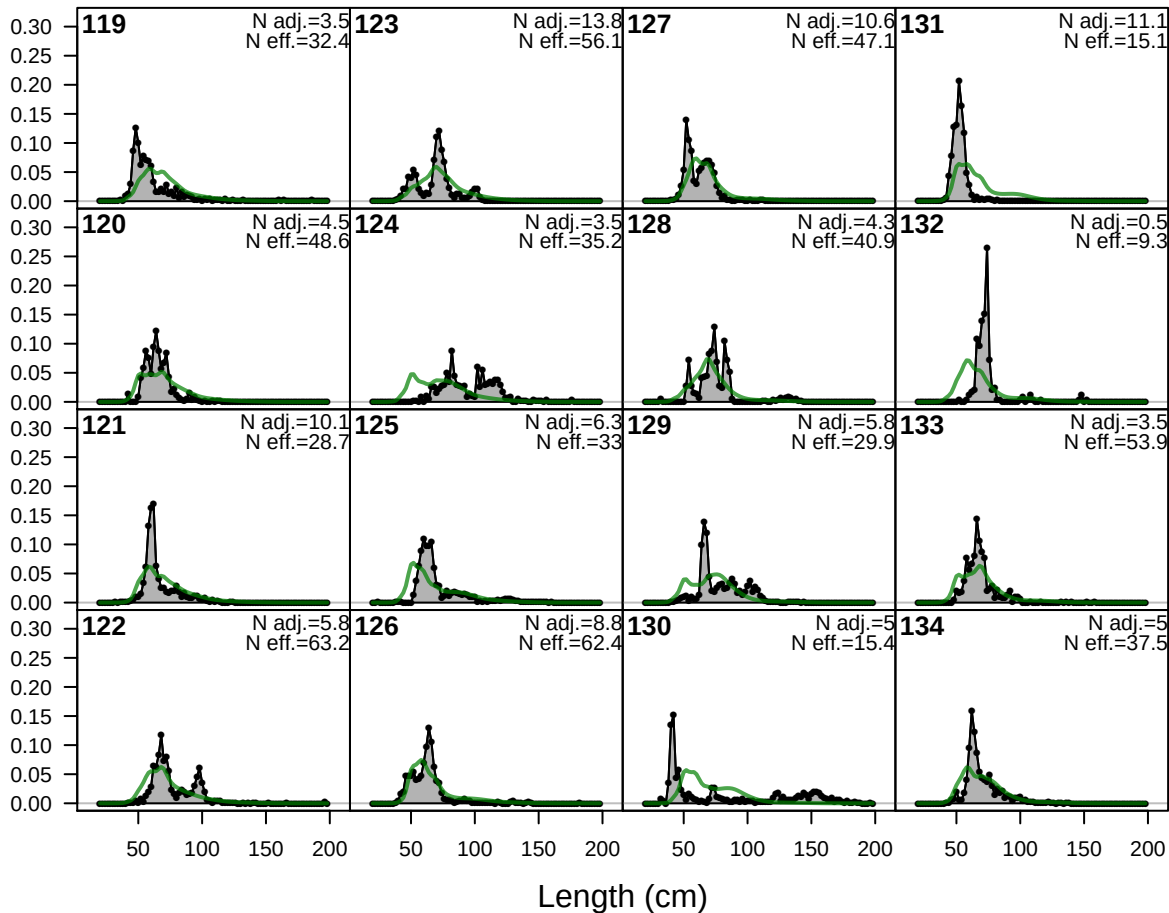


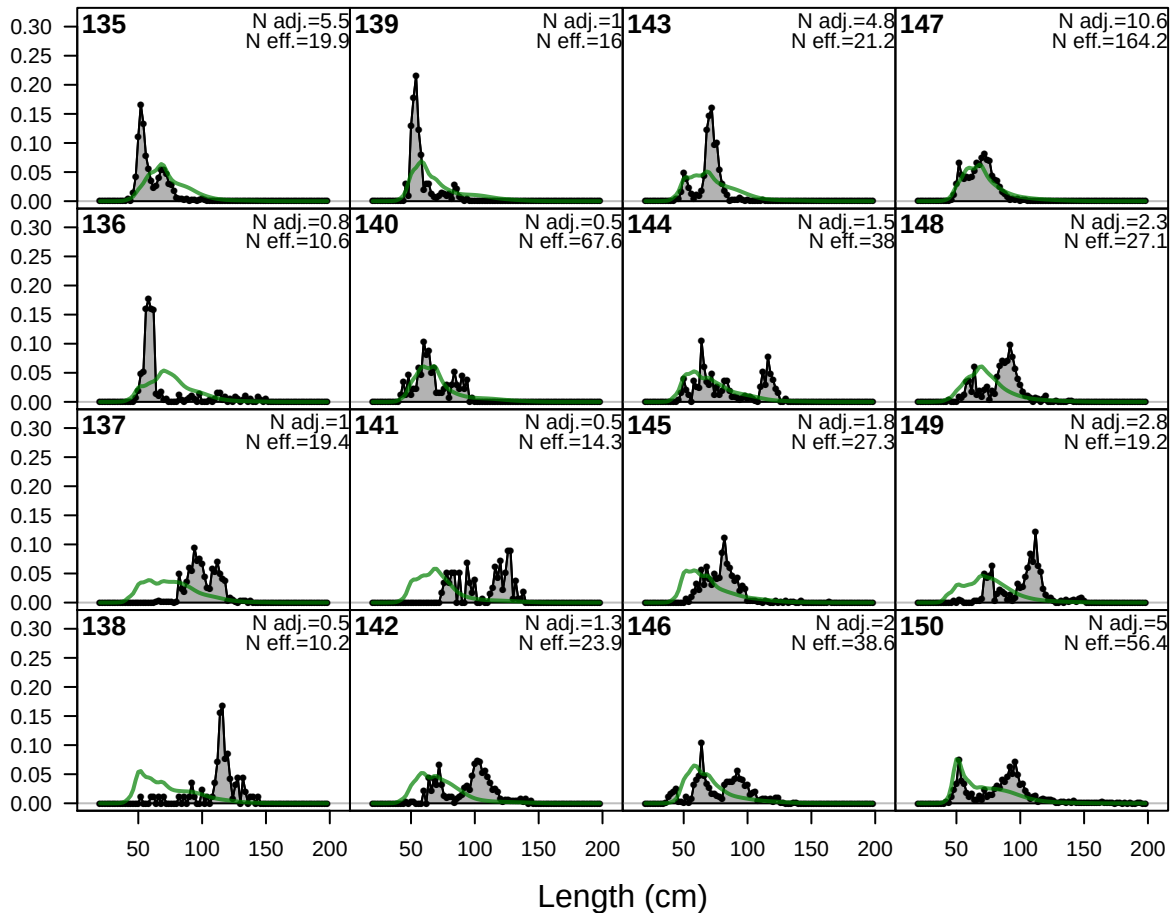


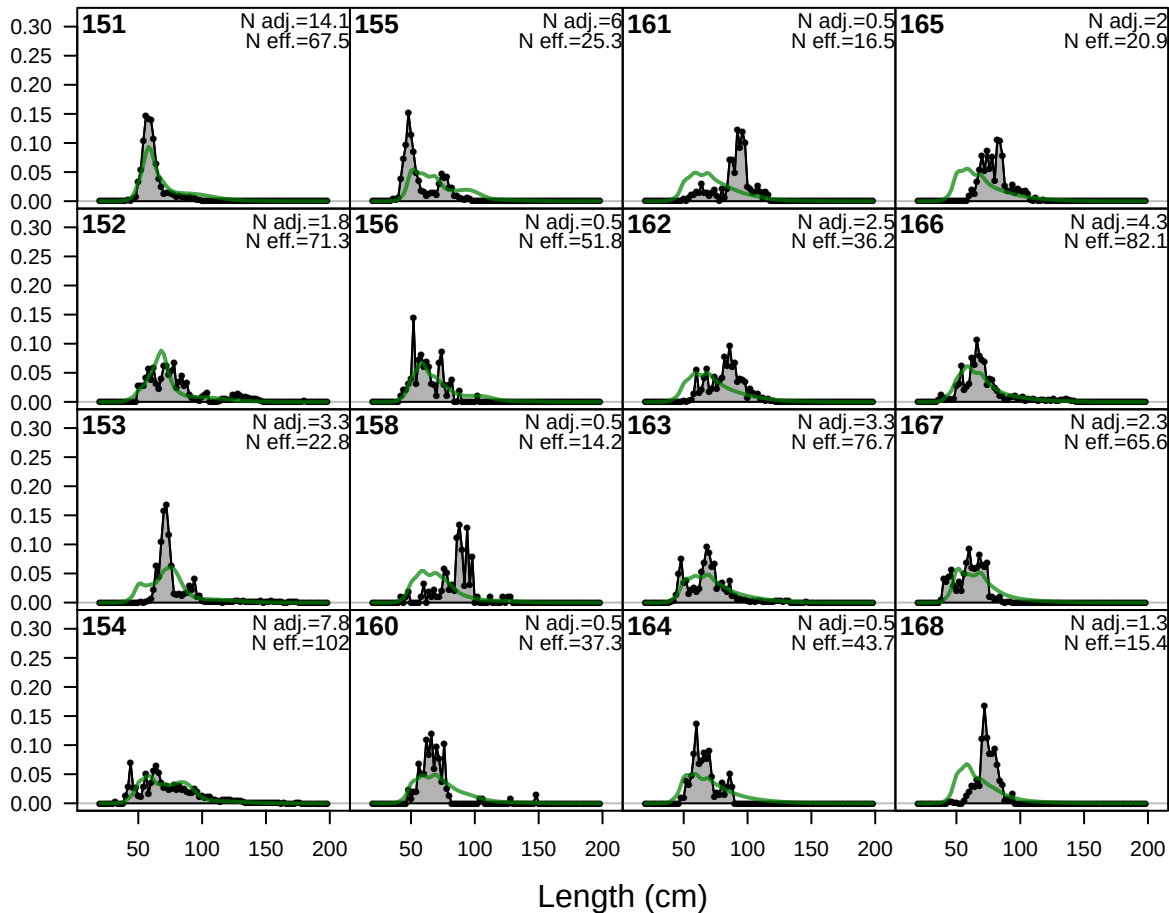




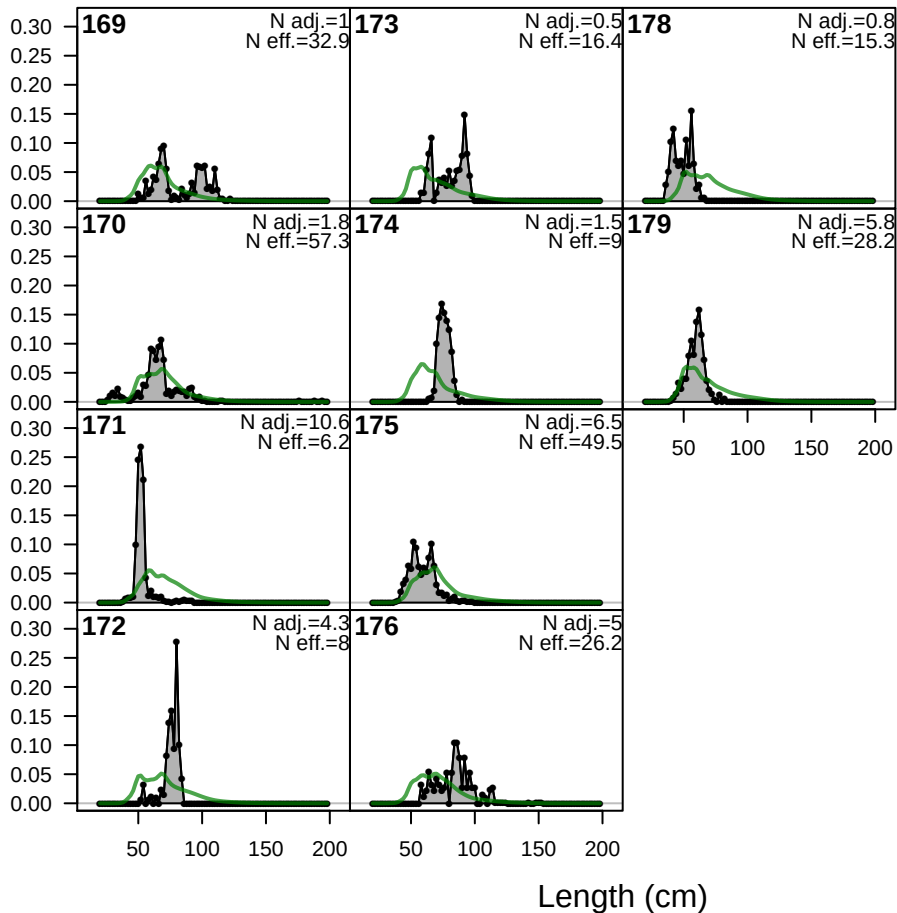


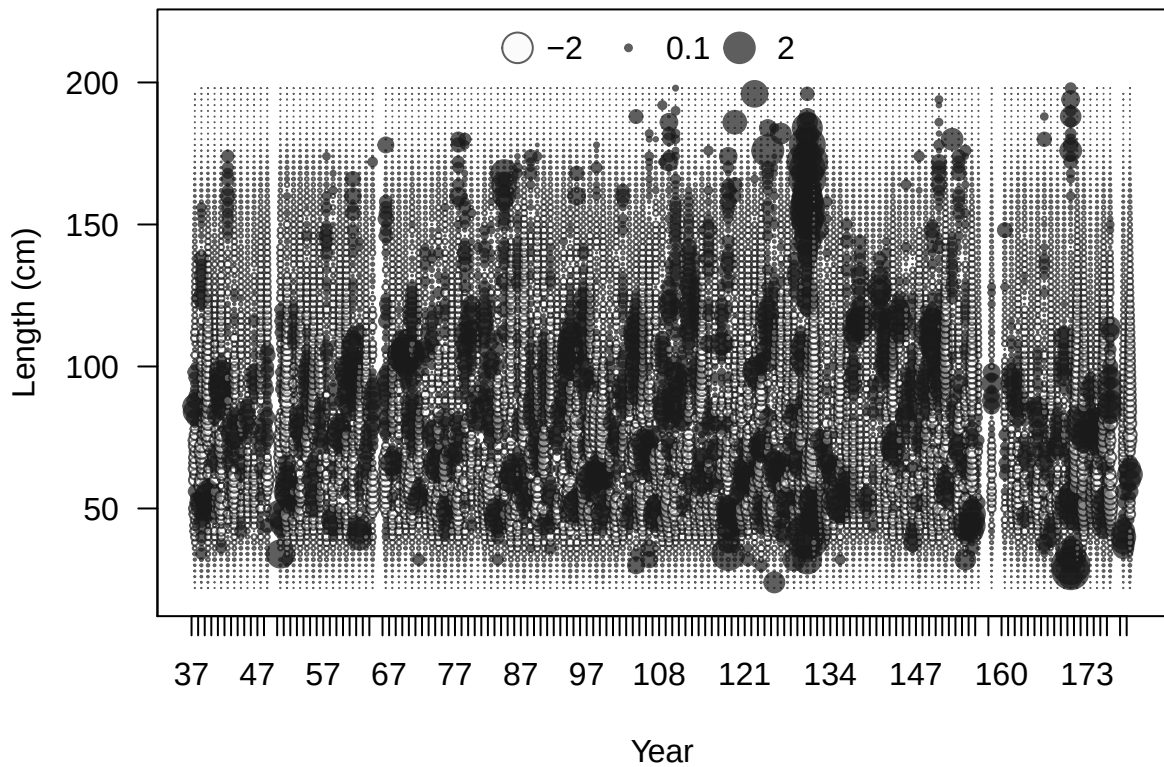


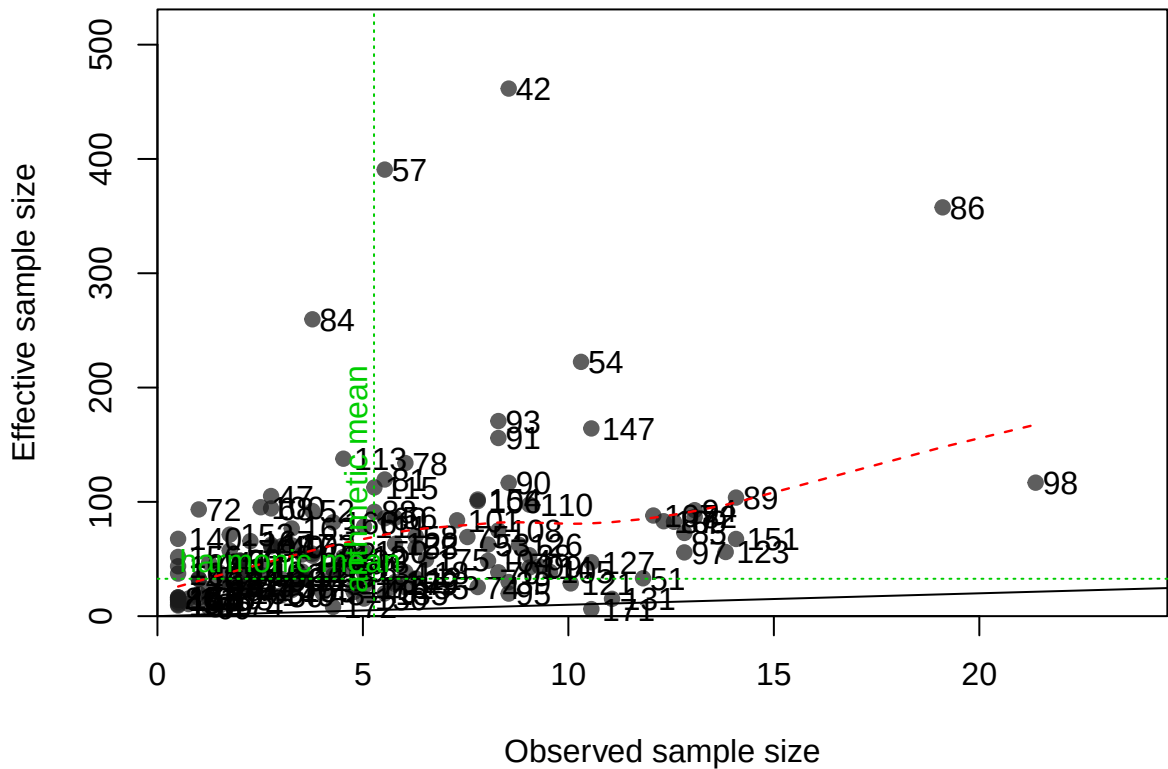




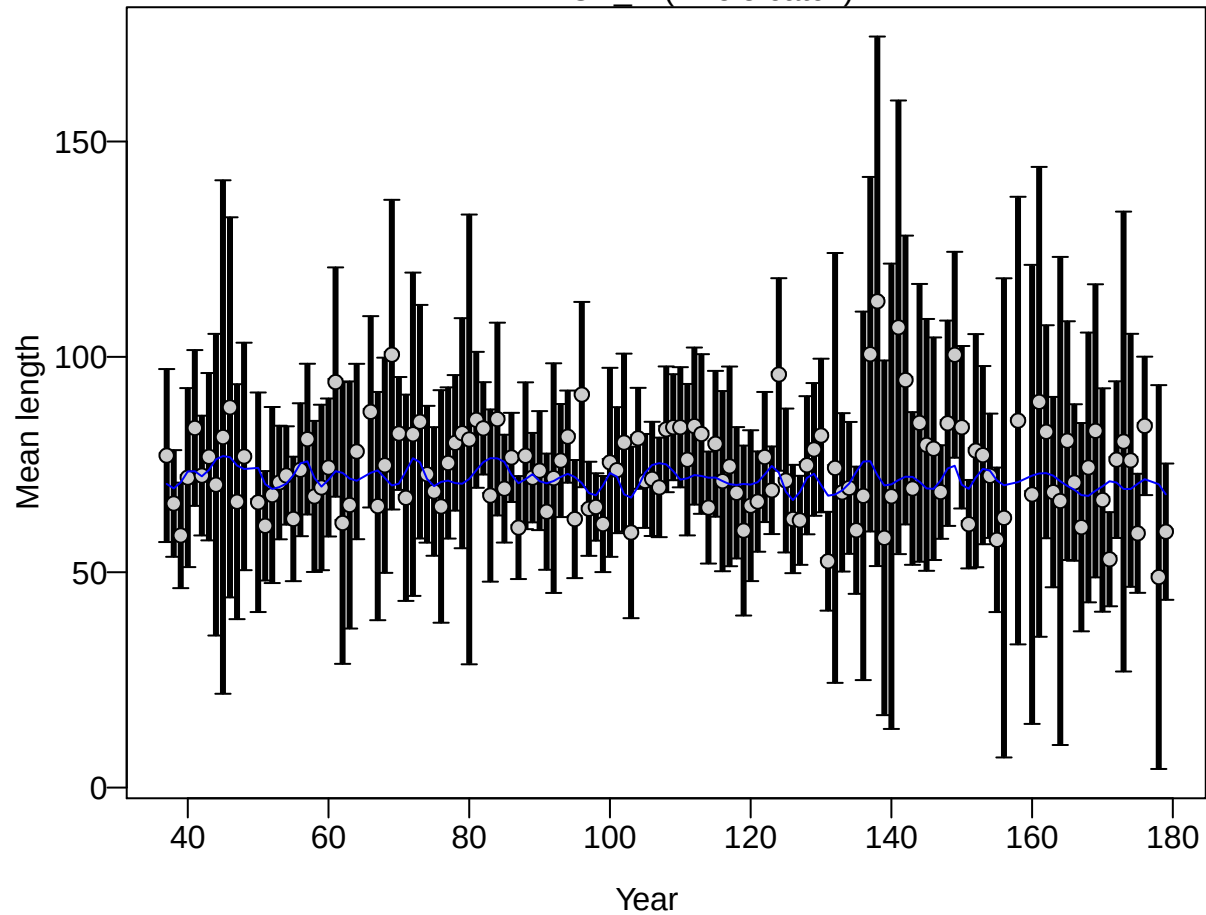
Proportion

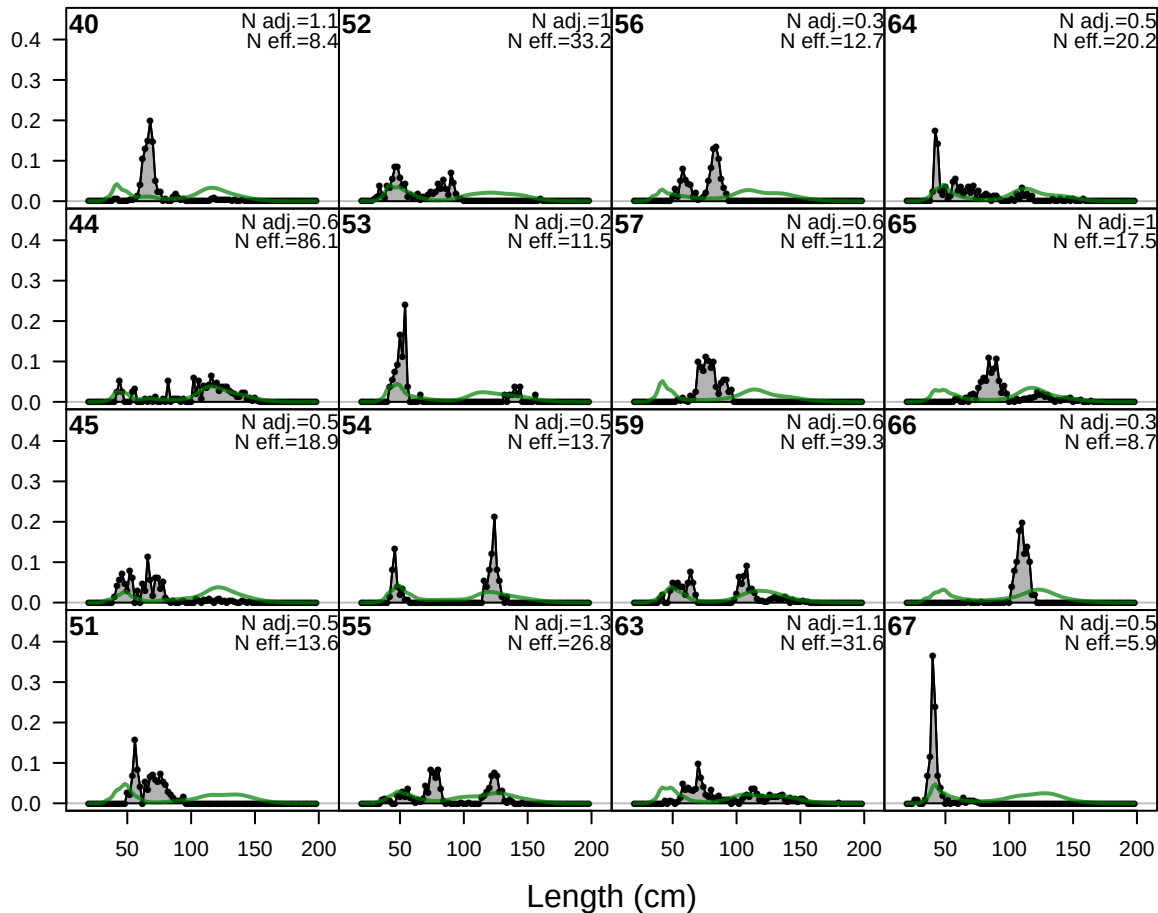


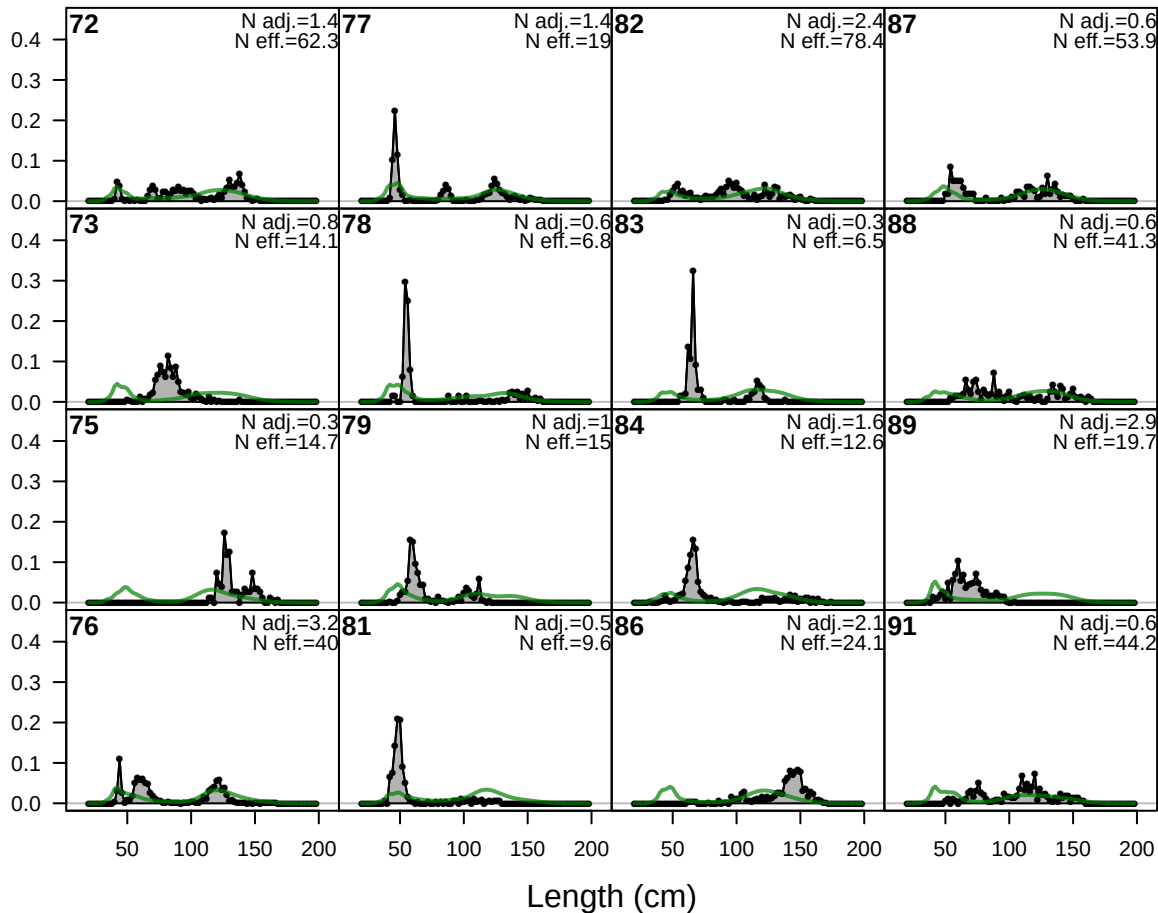


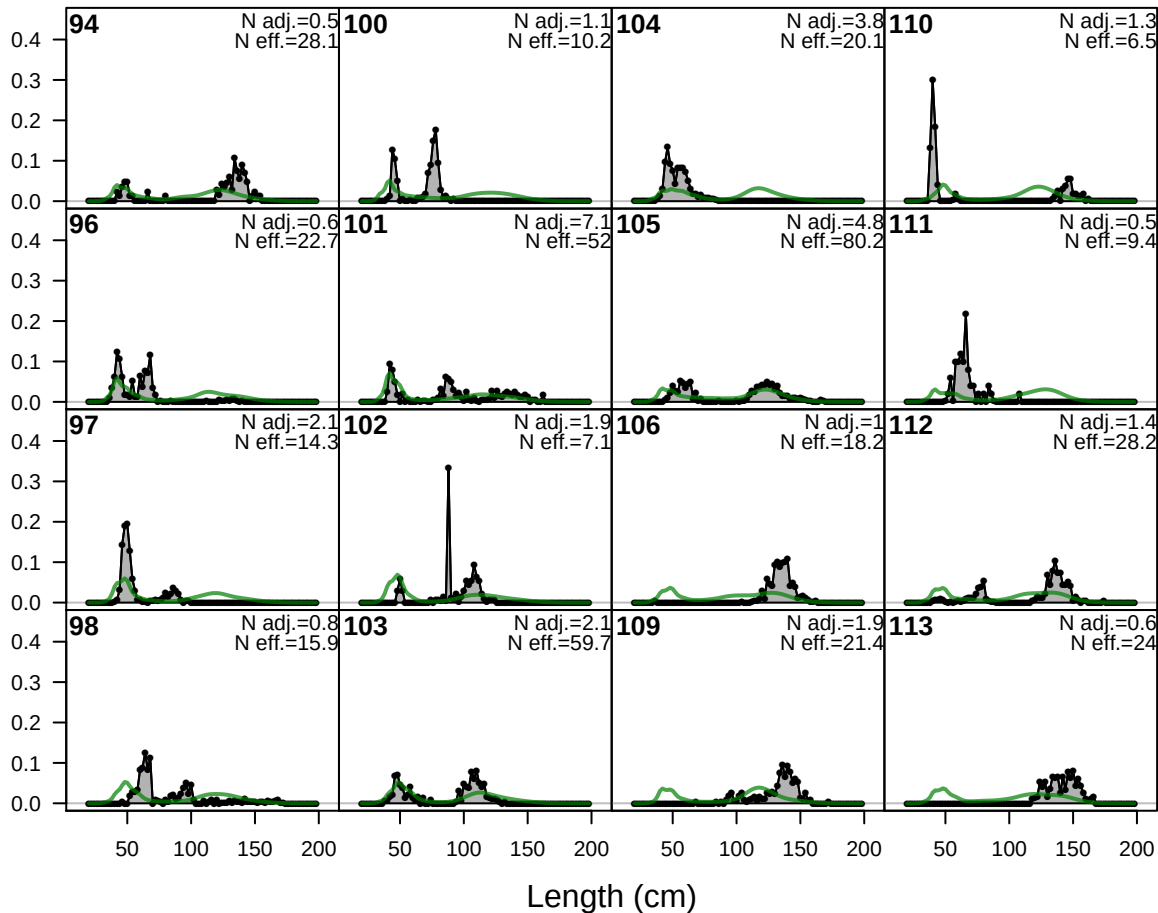


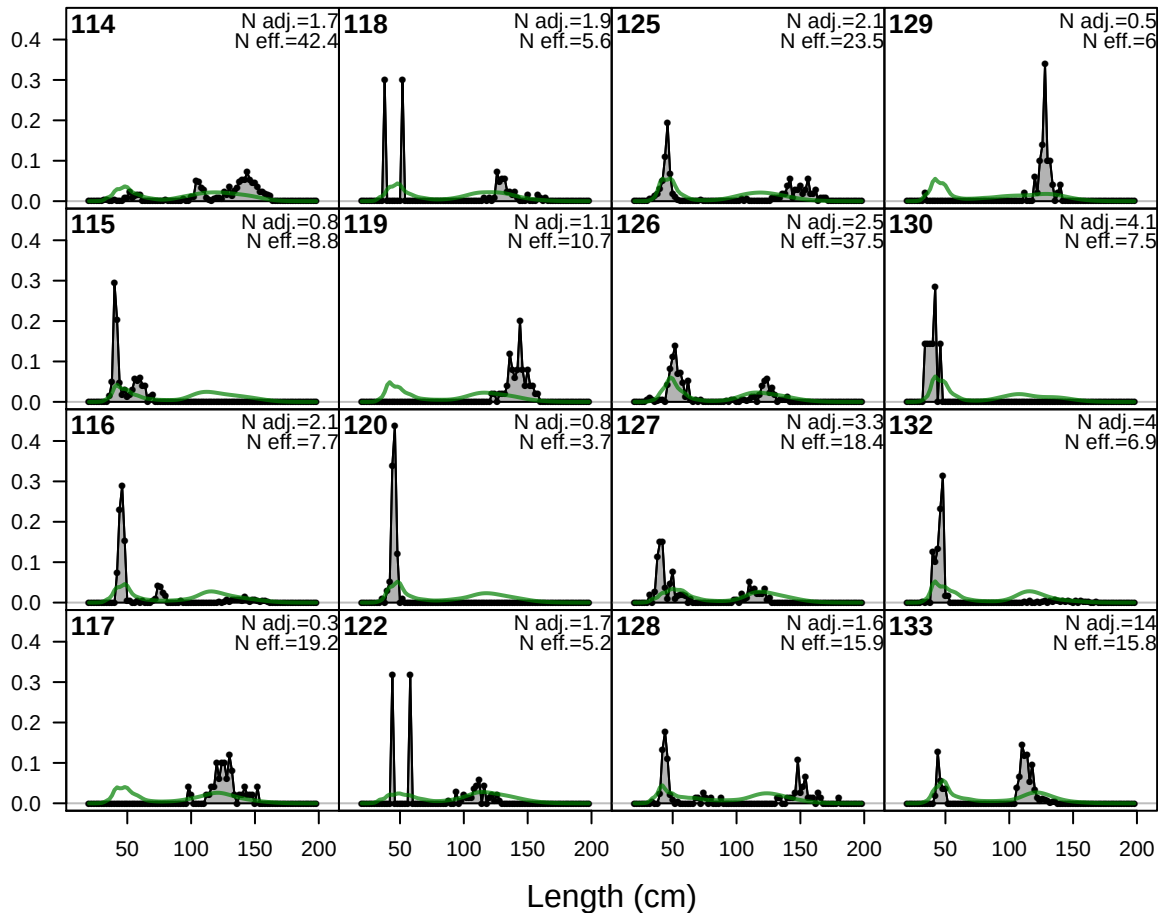
F11-NOA_N (whole catch)

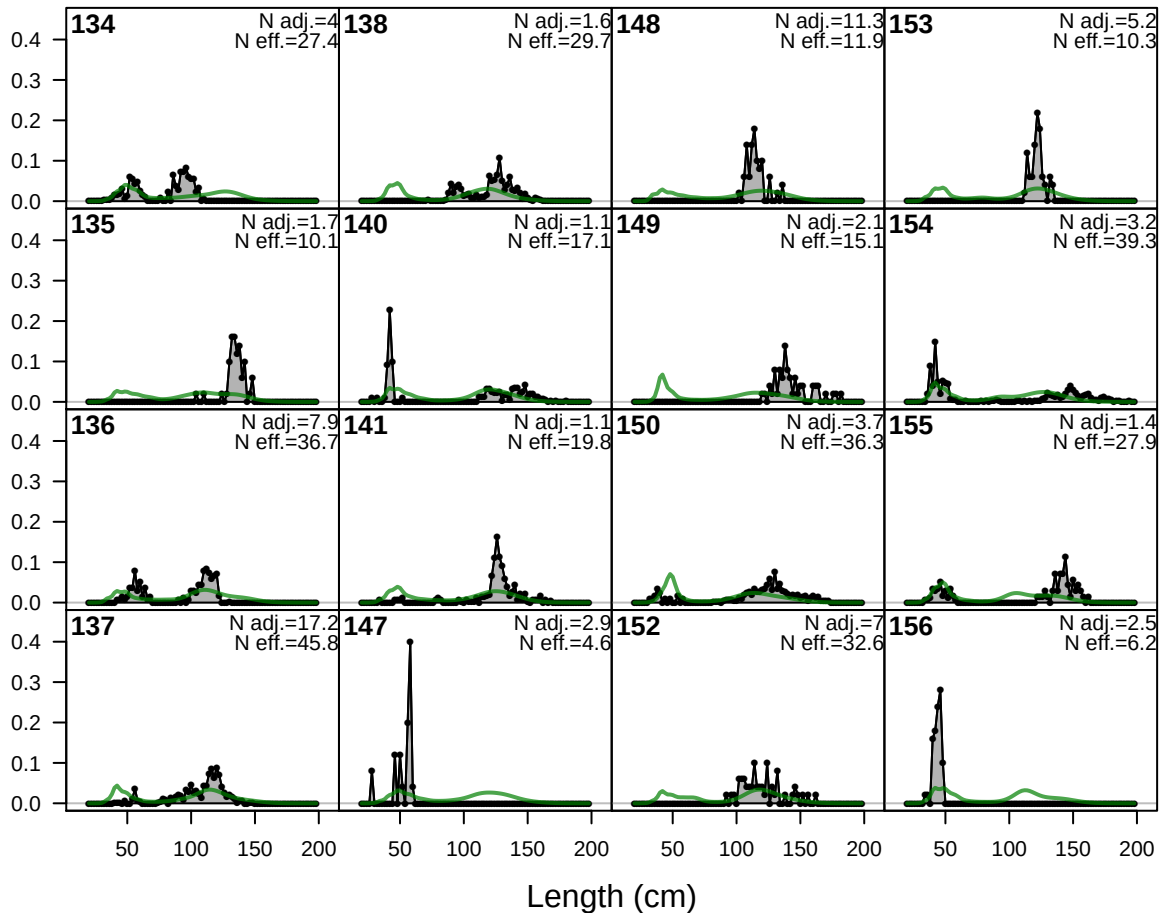


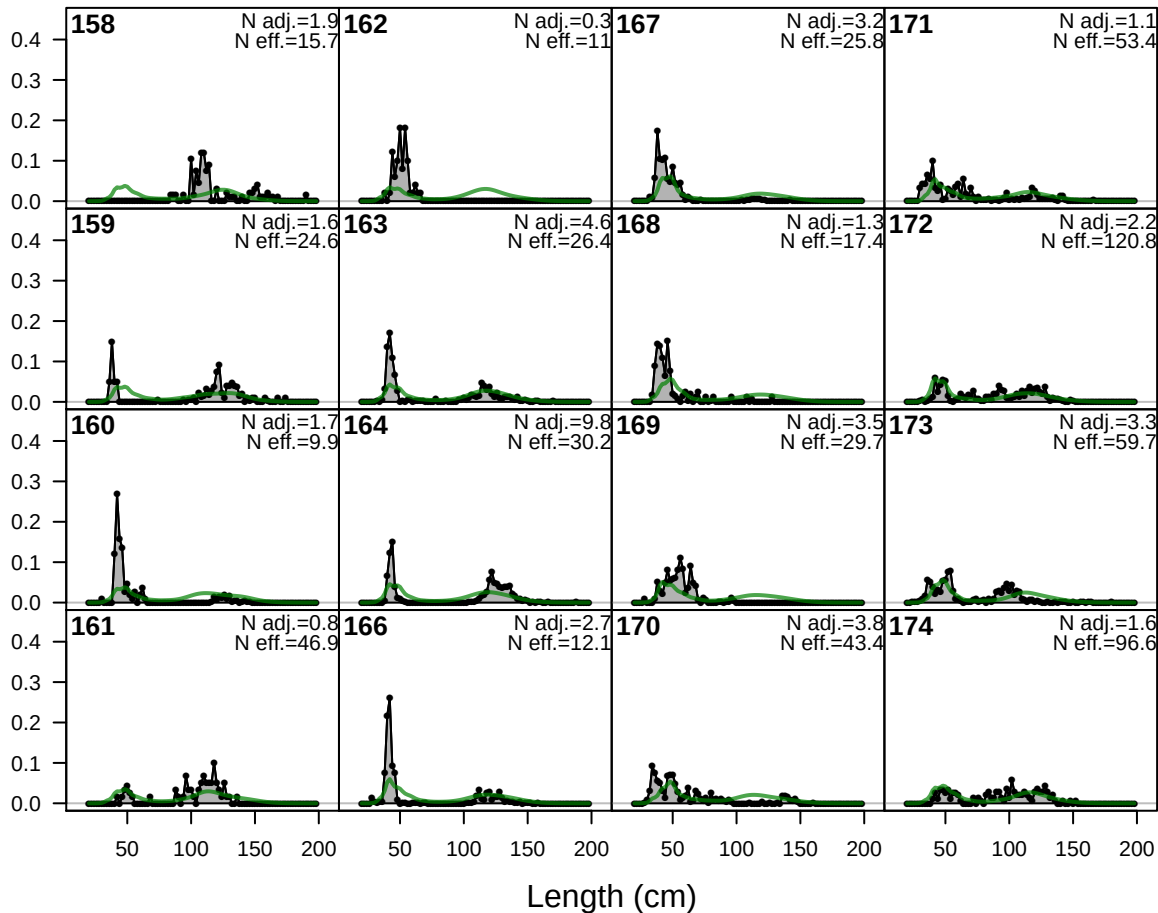




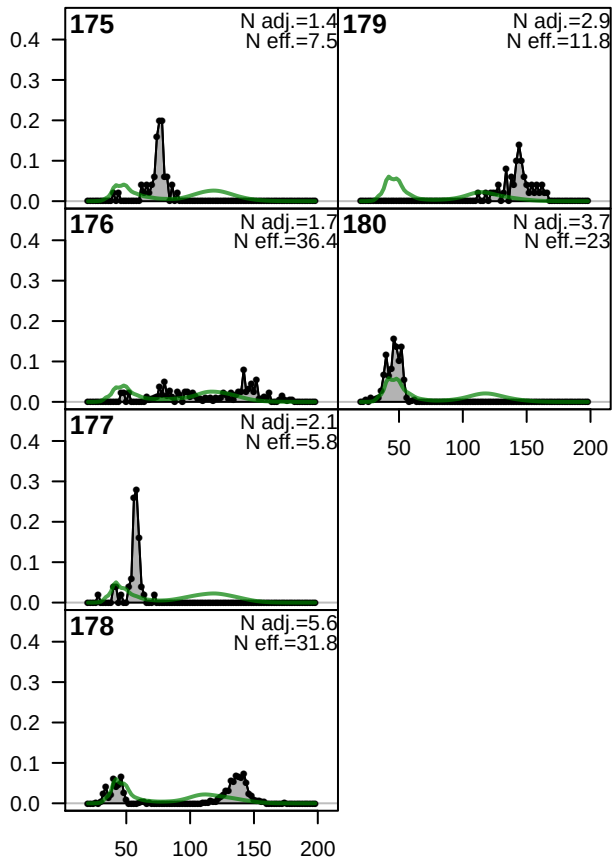




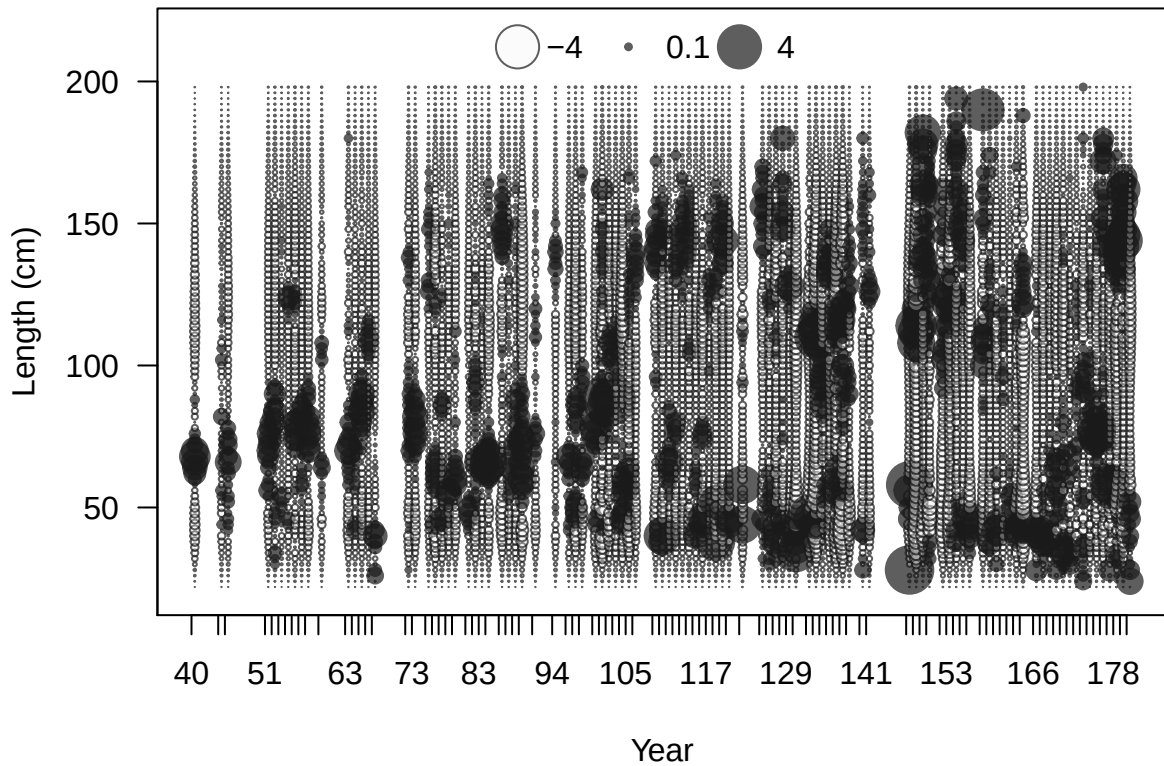




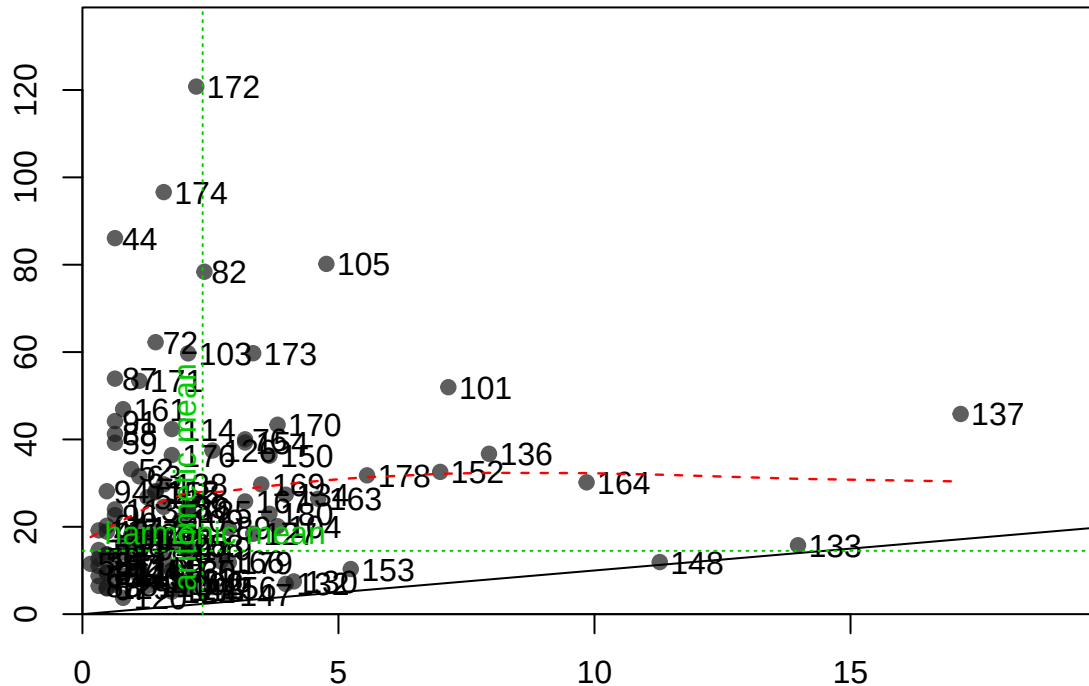
Proportion



Length (cm)

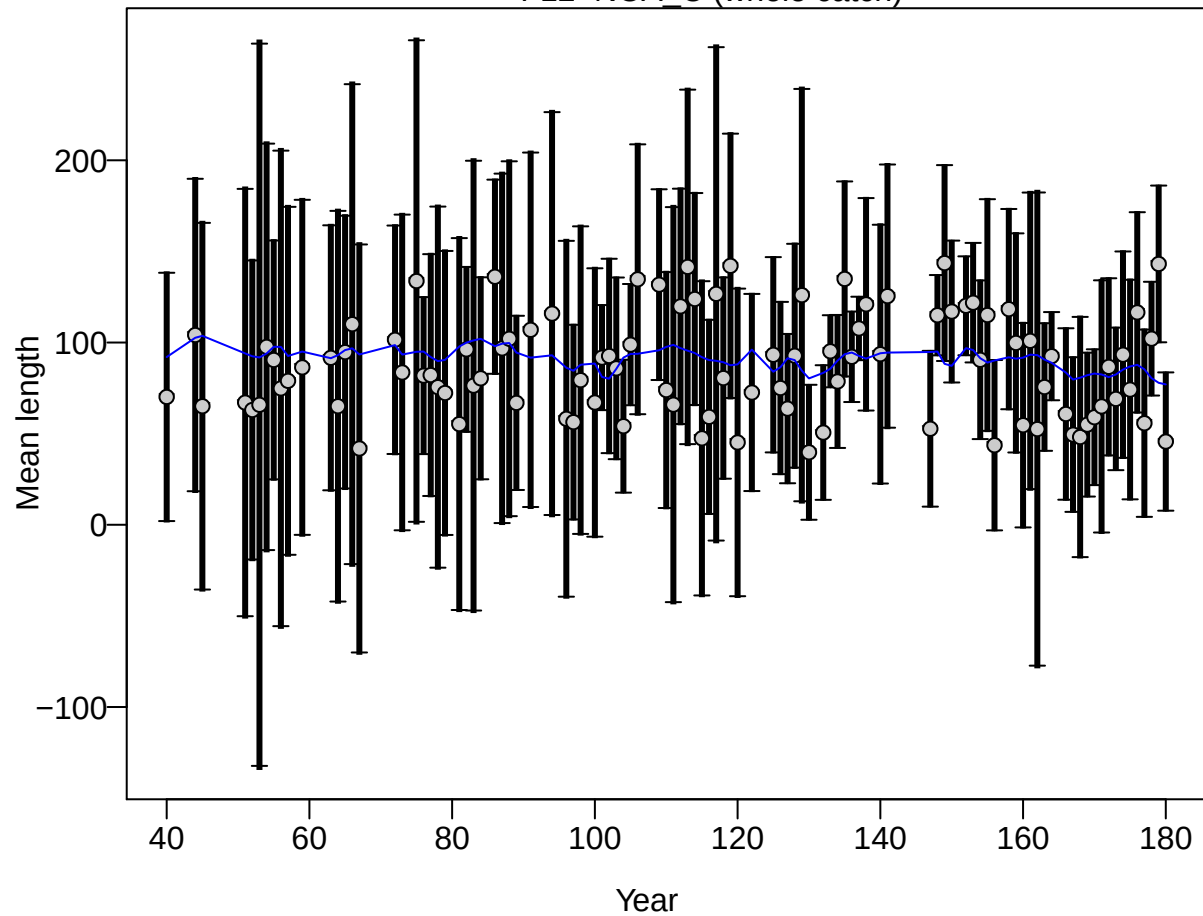


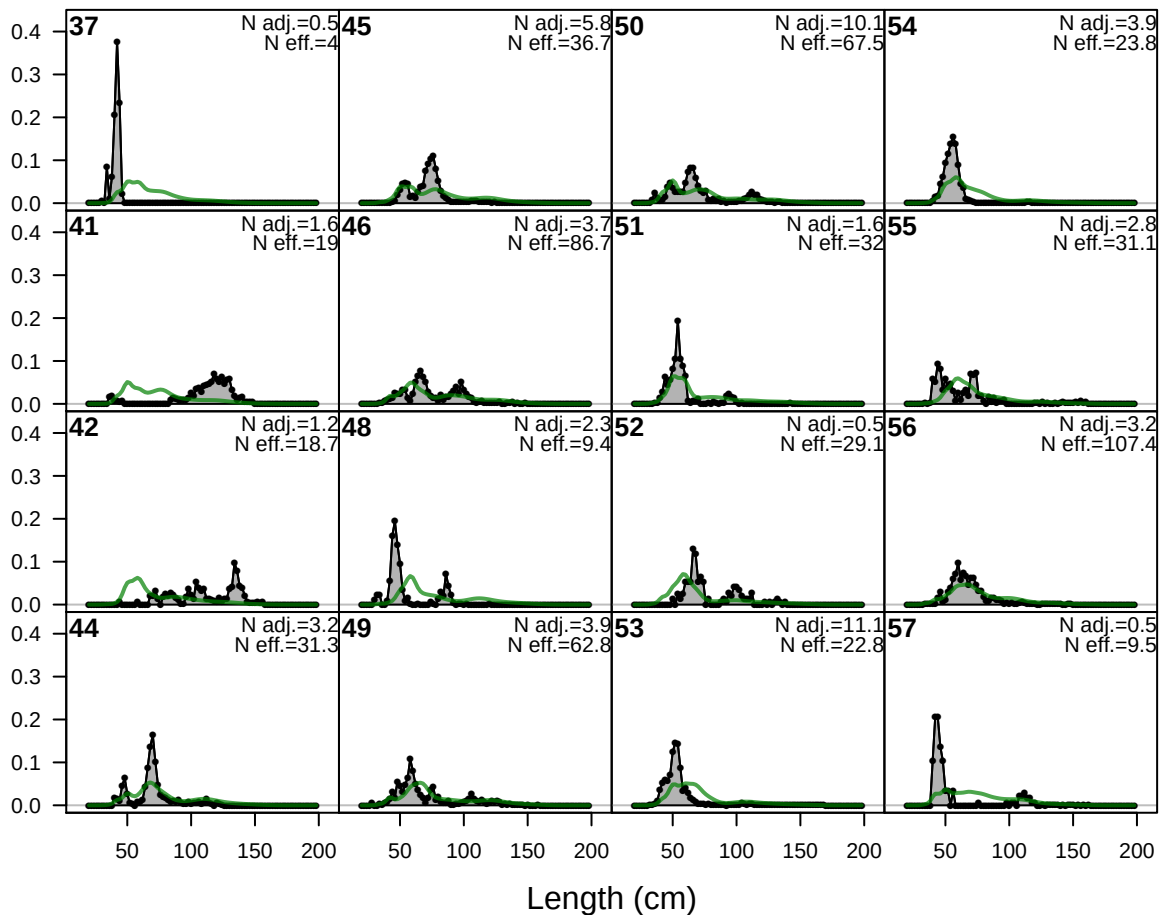
Effective sample size

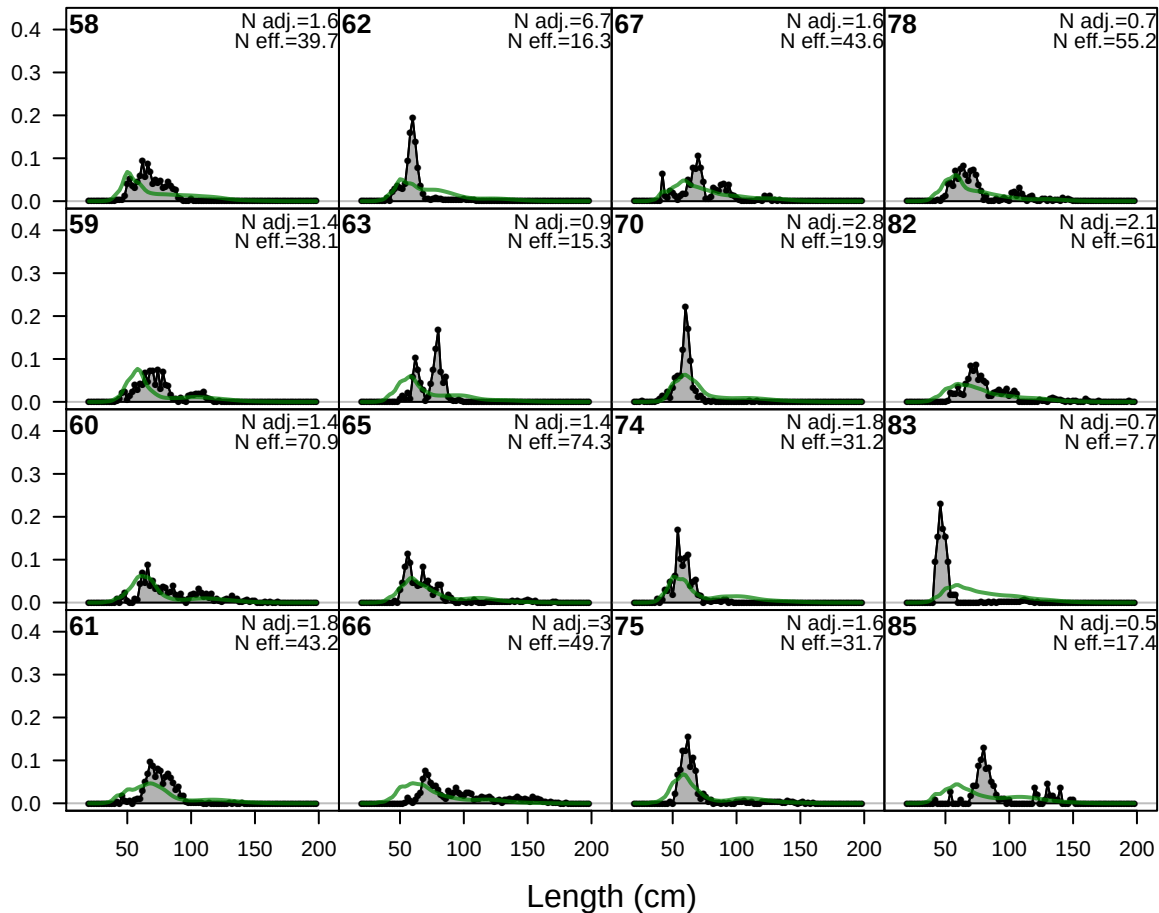


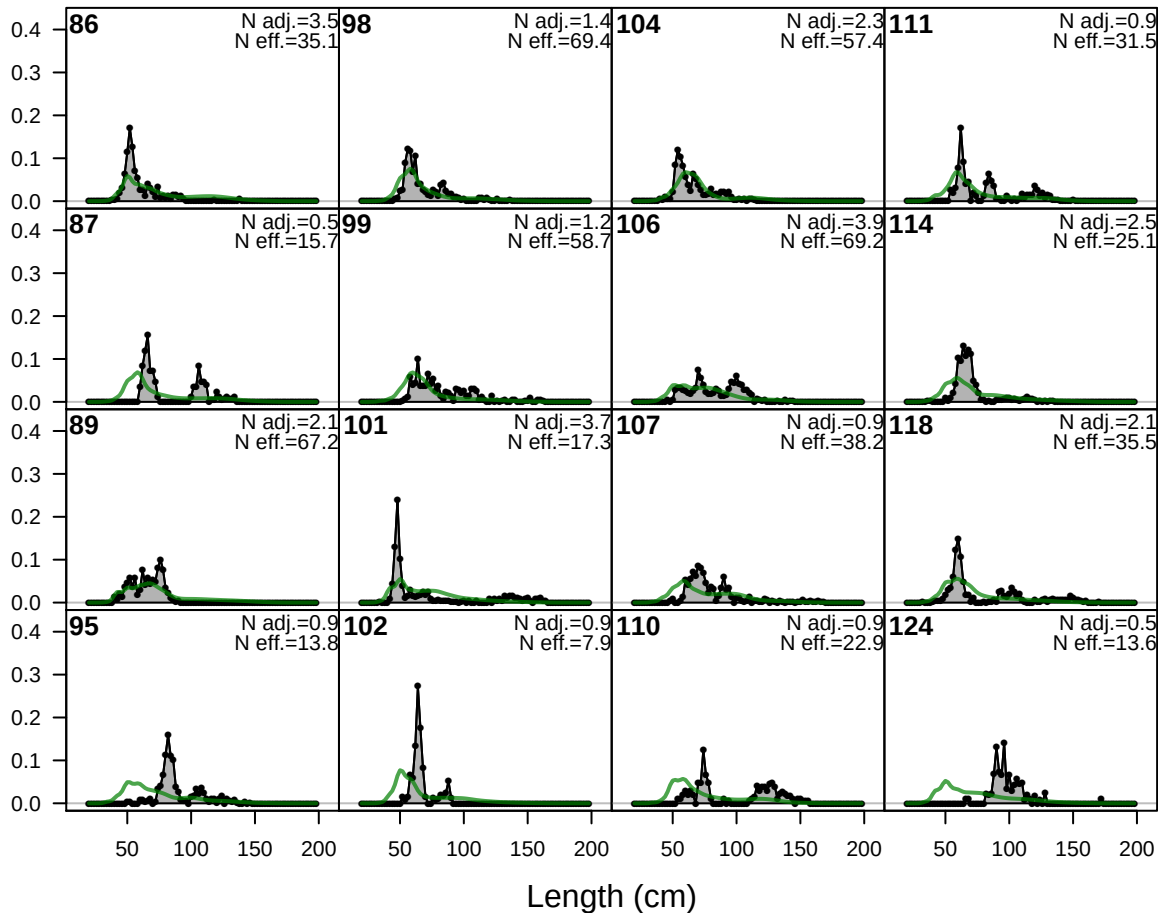
Observed sample size

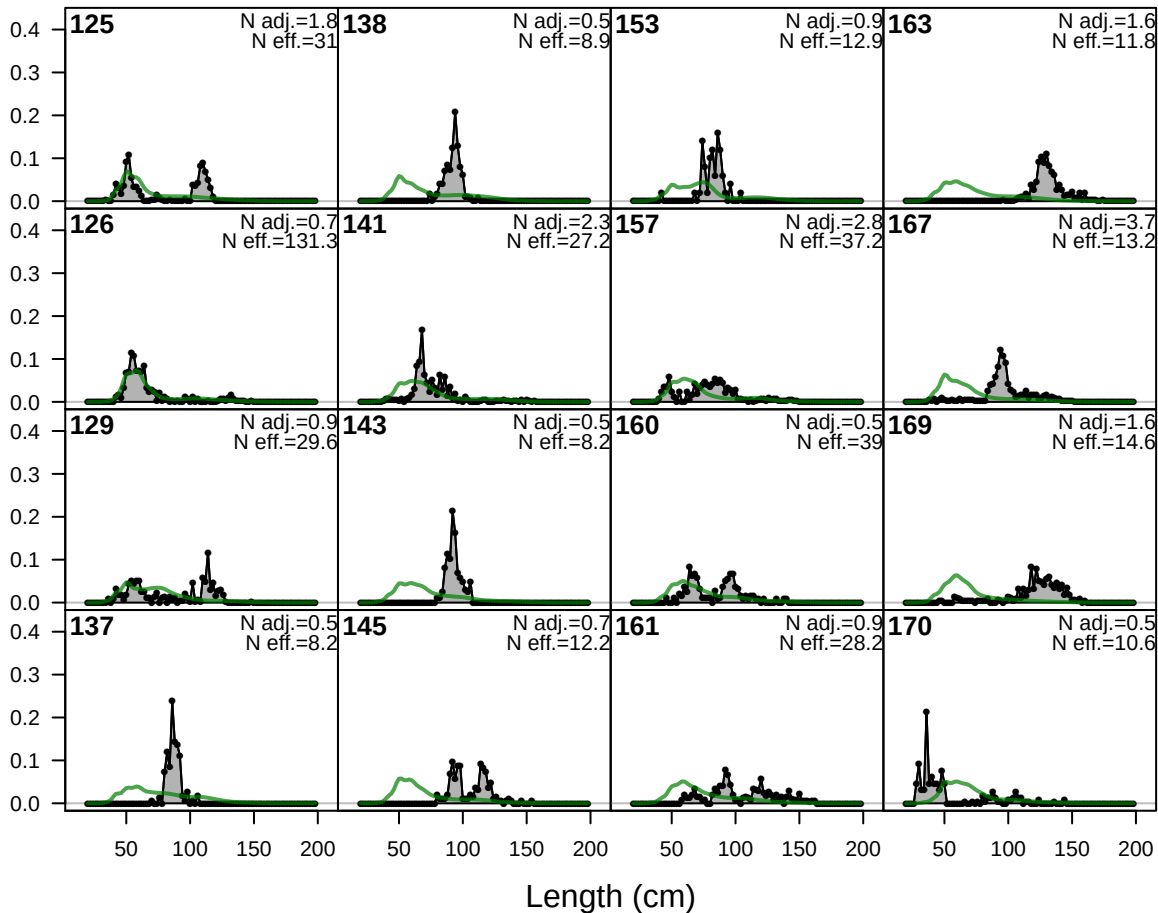
F12-NOA_C (whole catch)

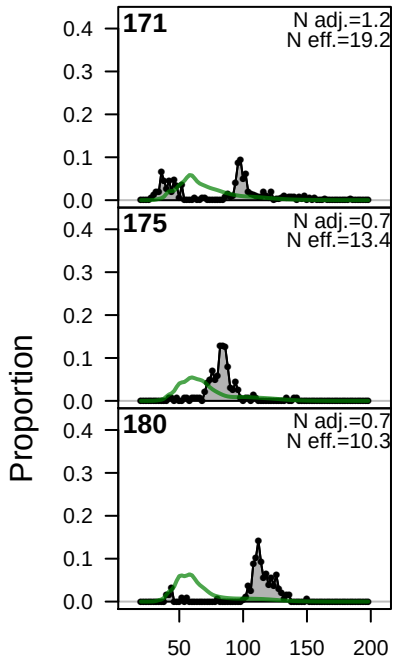




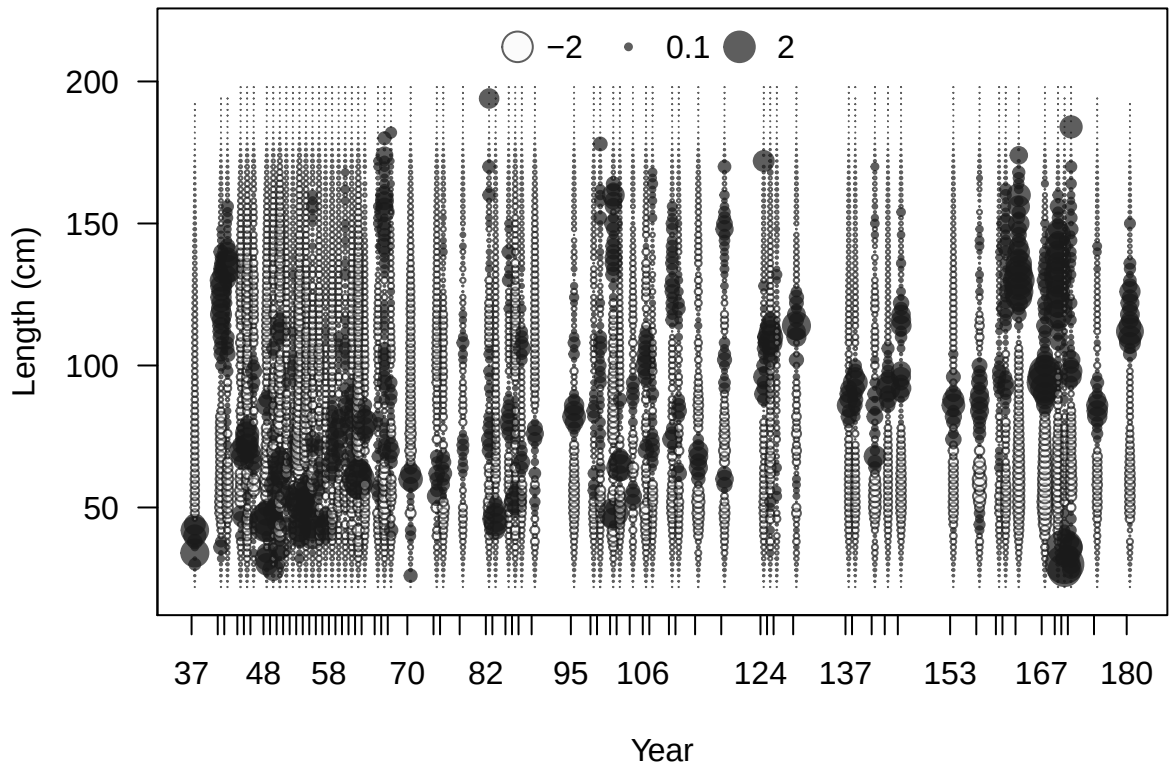




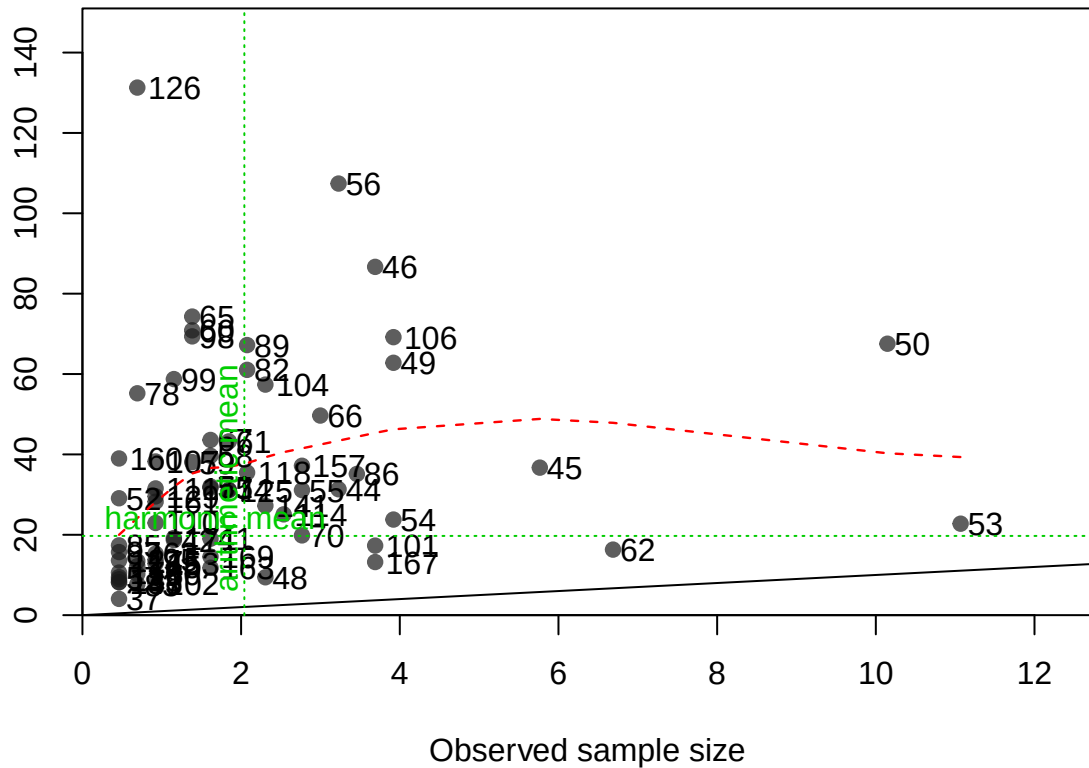




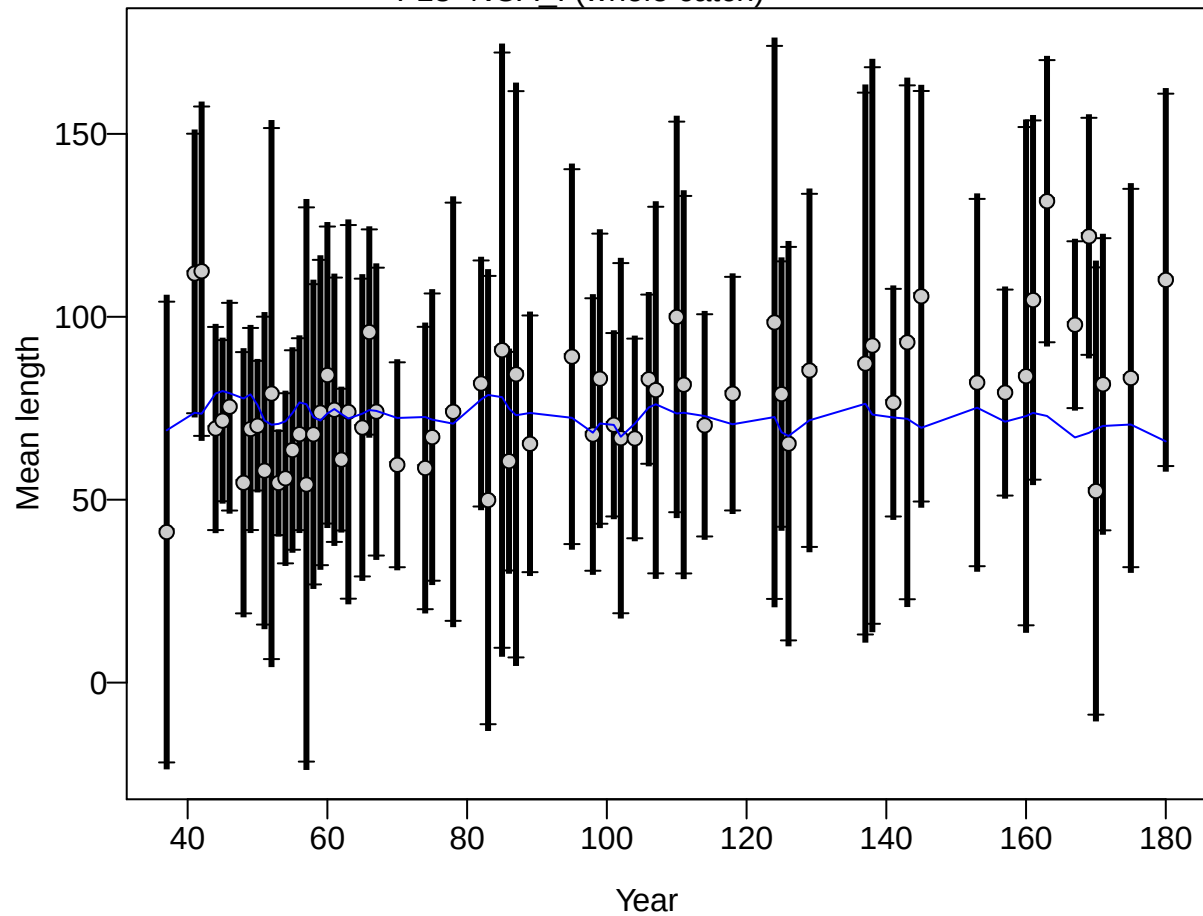
Length (cm)

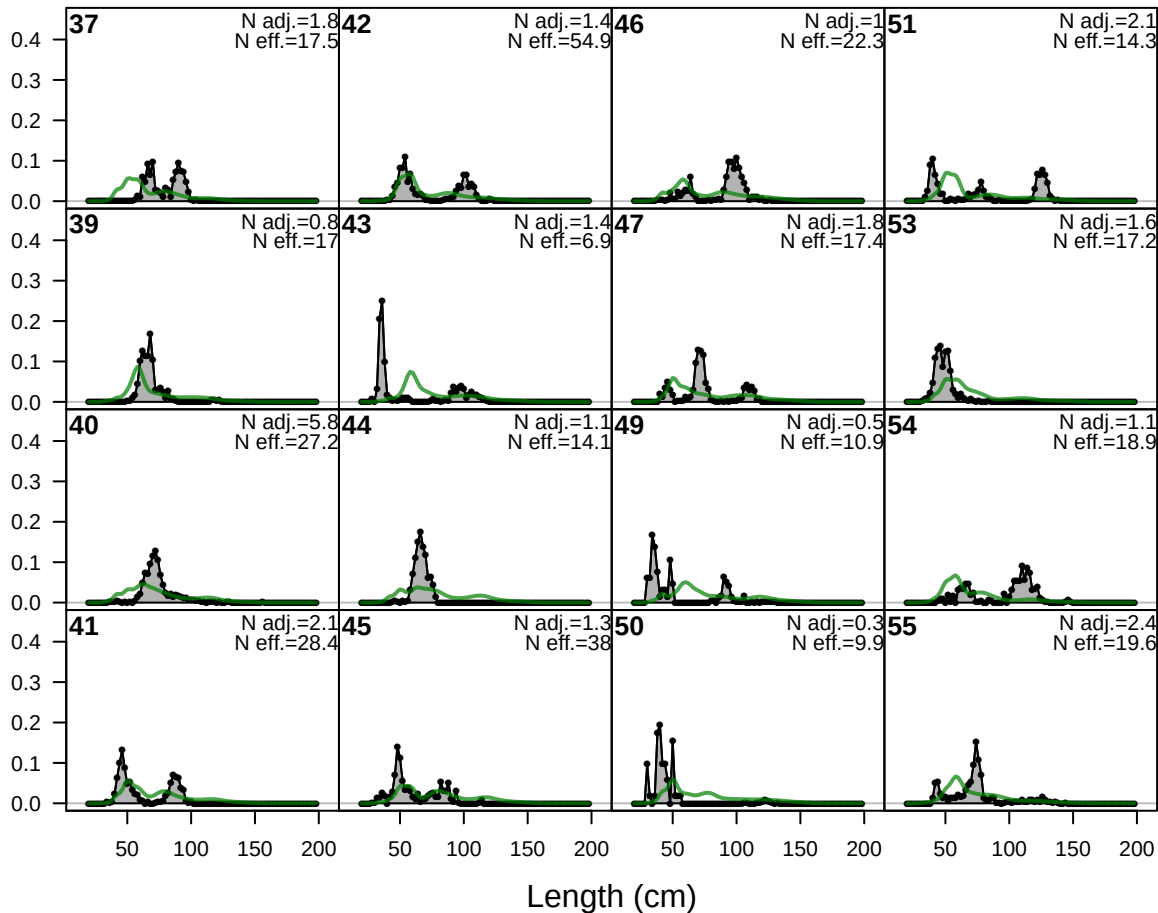


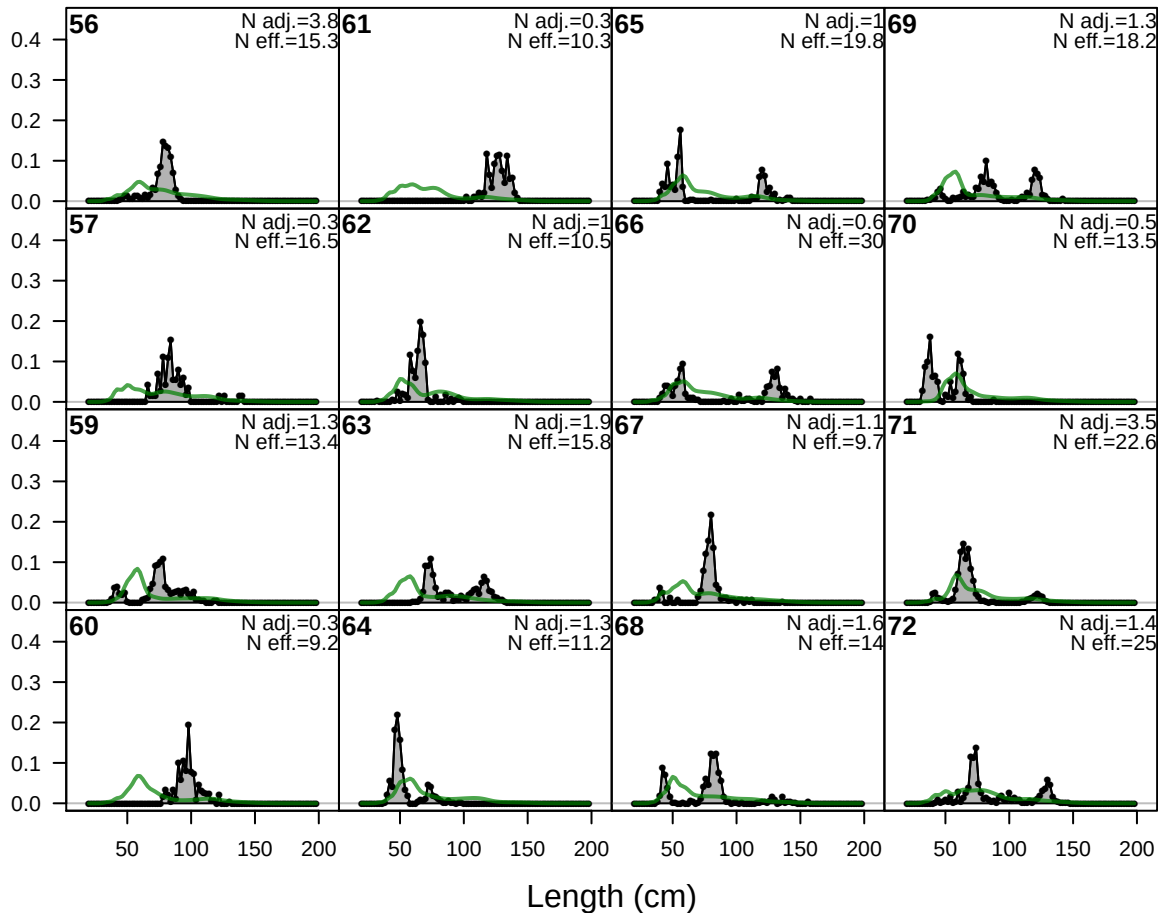
Effective sample size

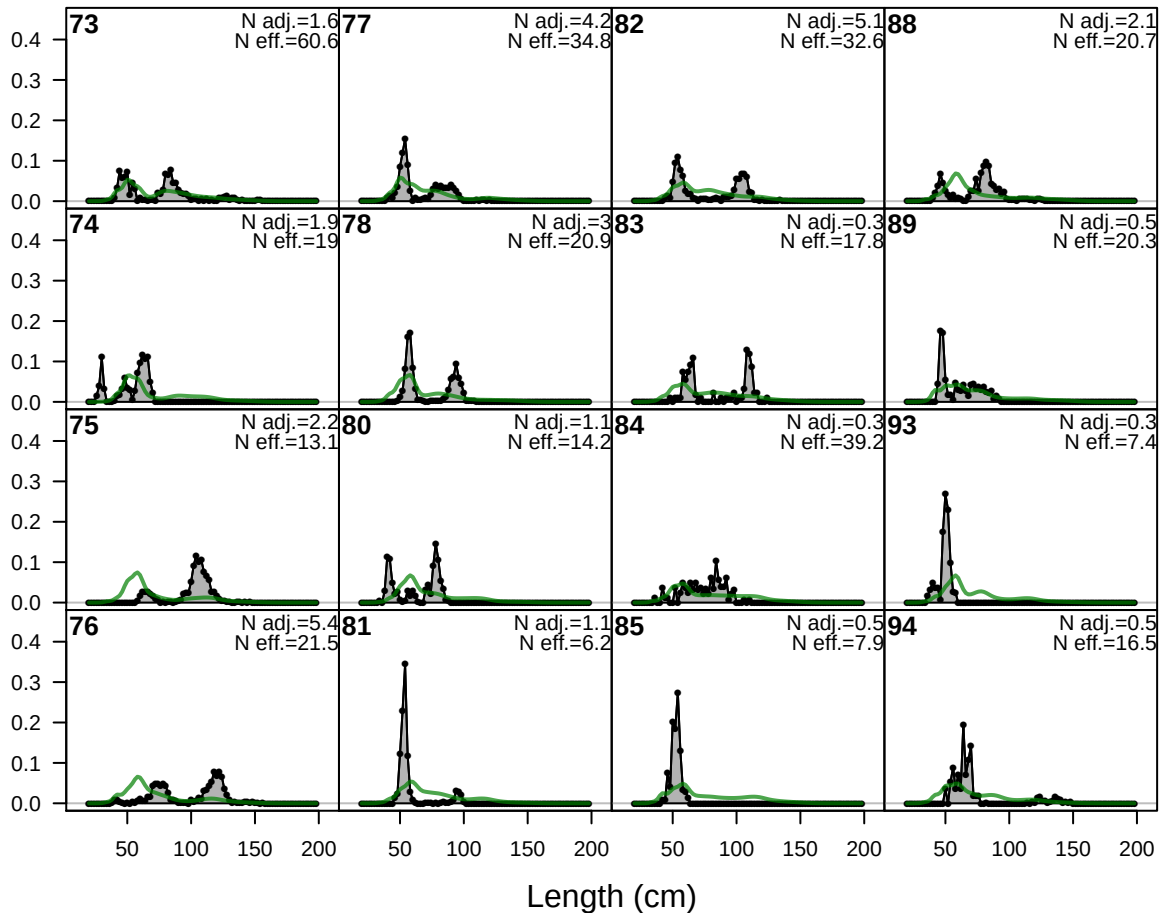


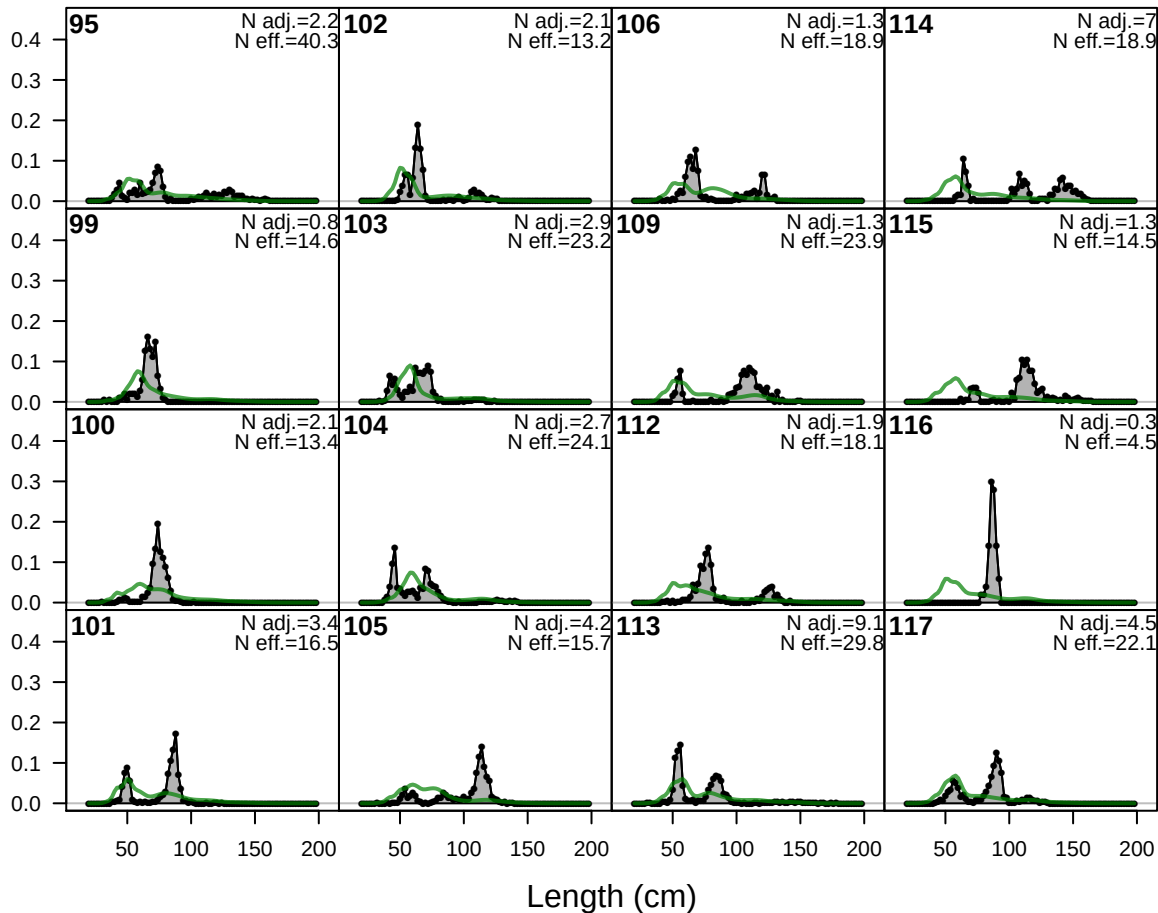
F13-NOA I (whole catch)

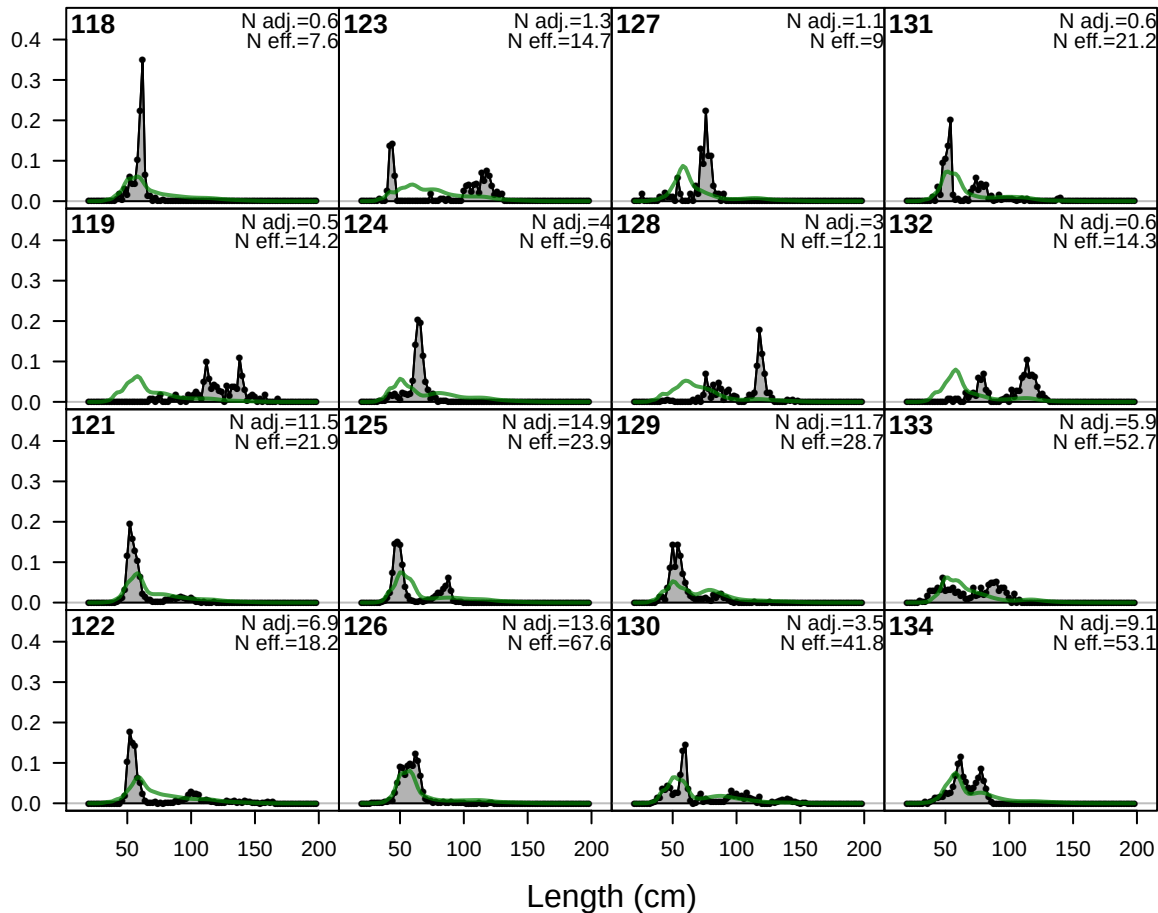


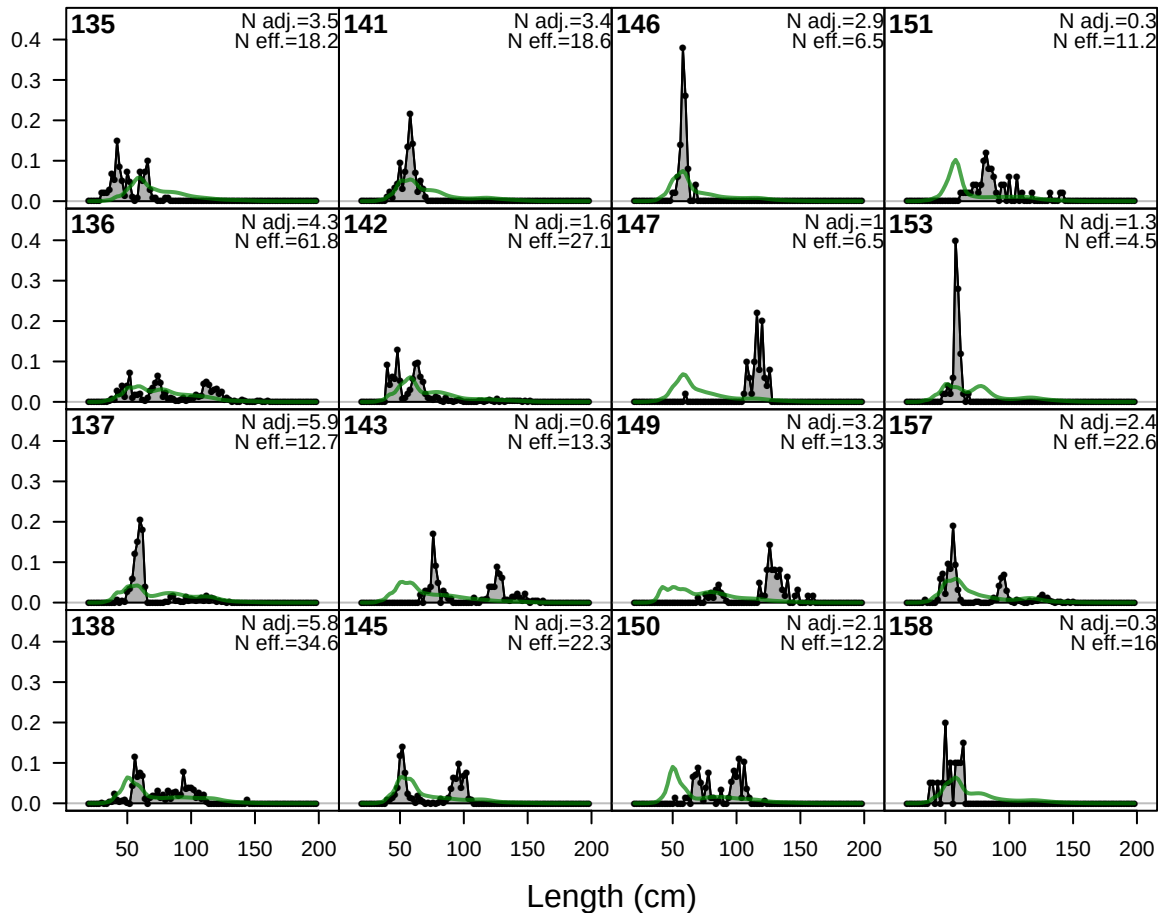




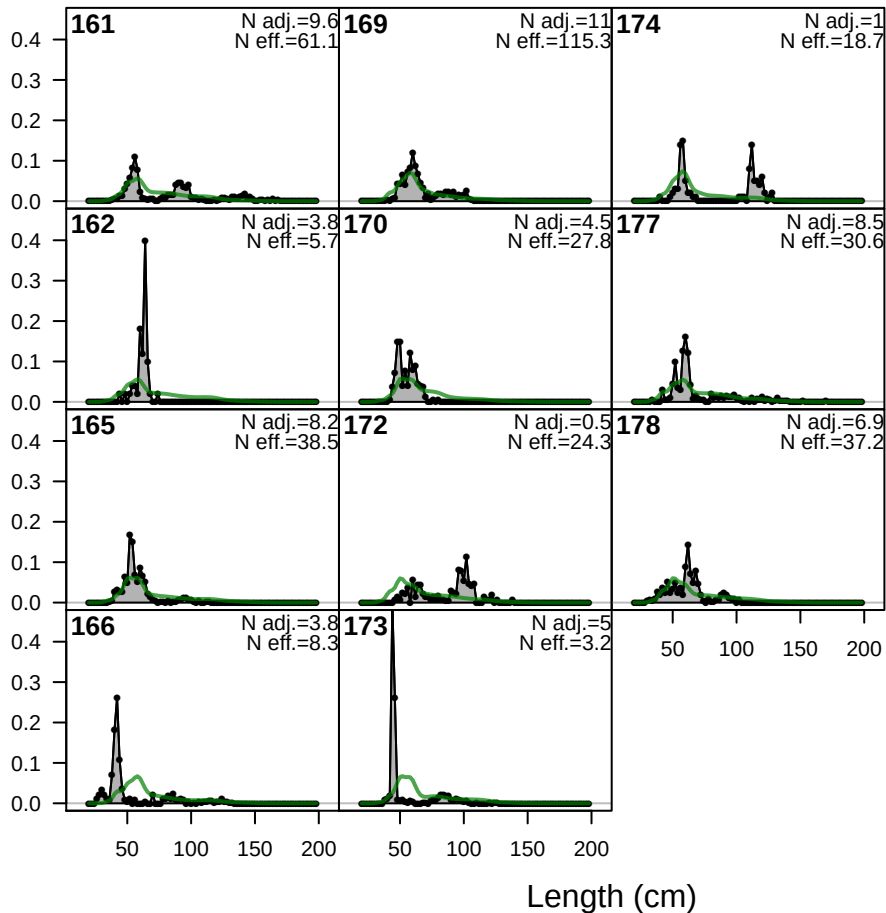


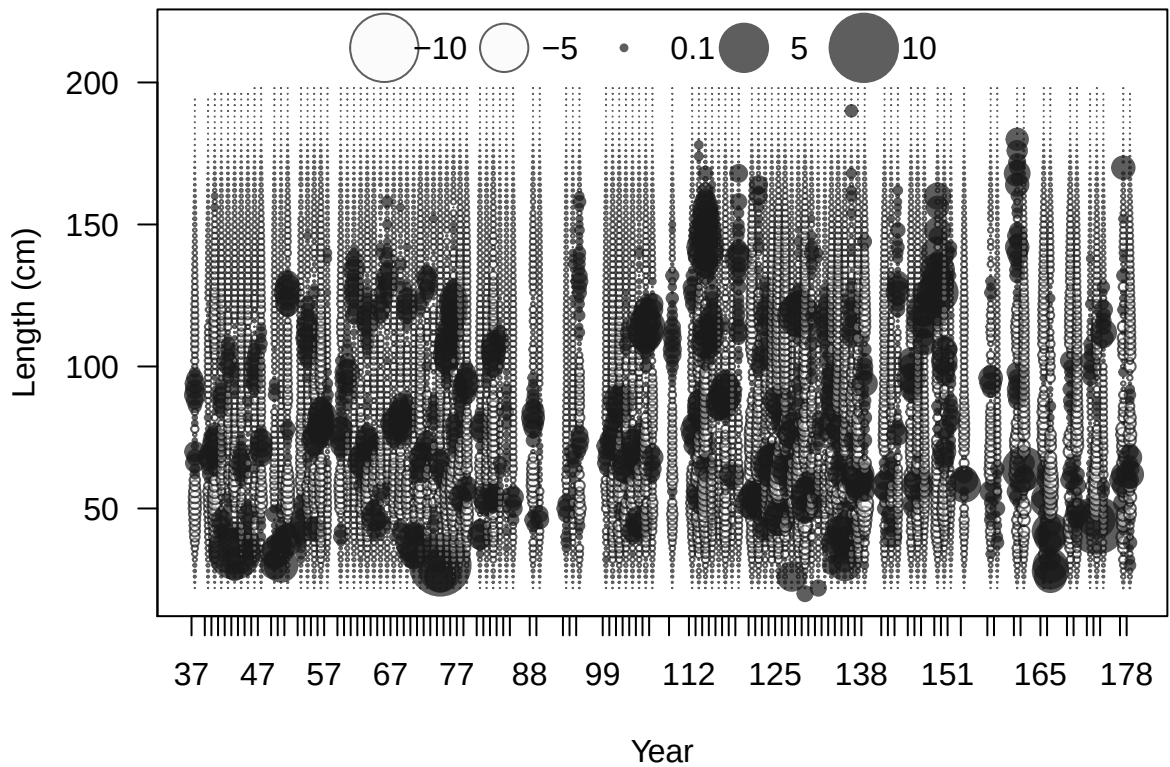




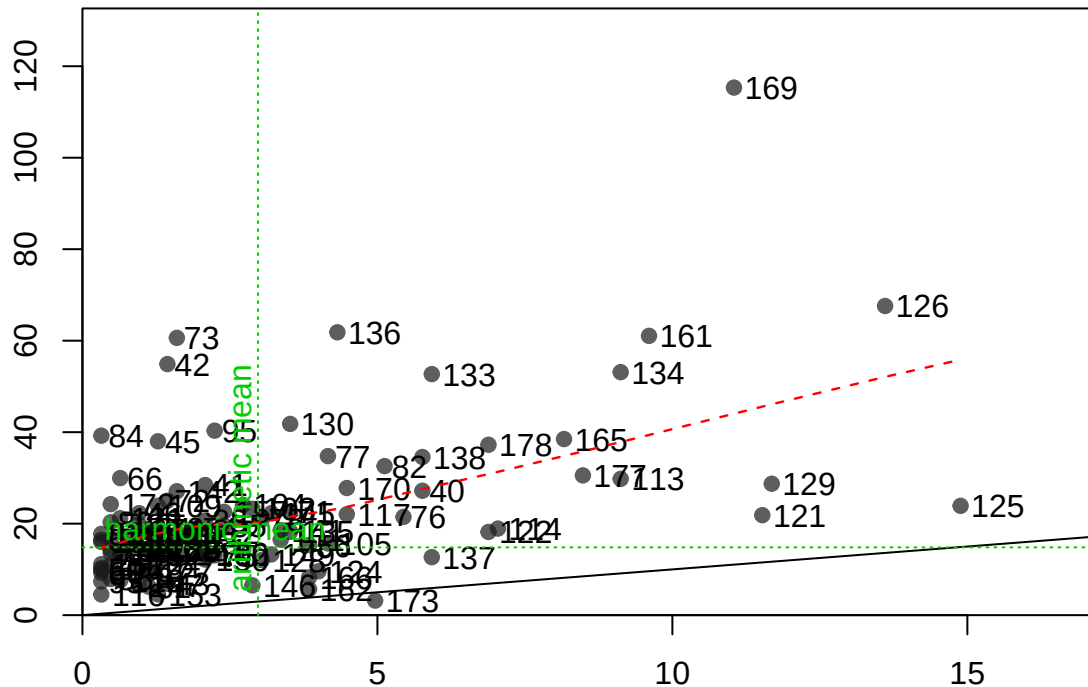


Proportion



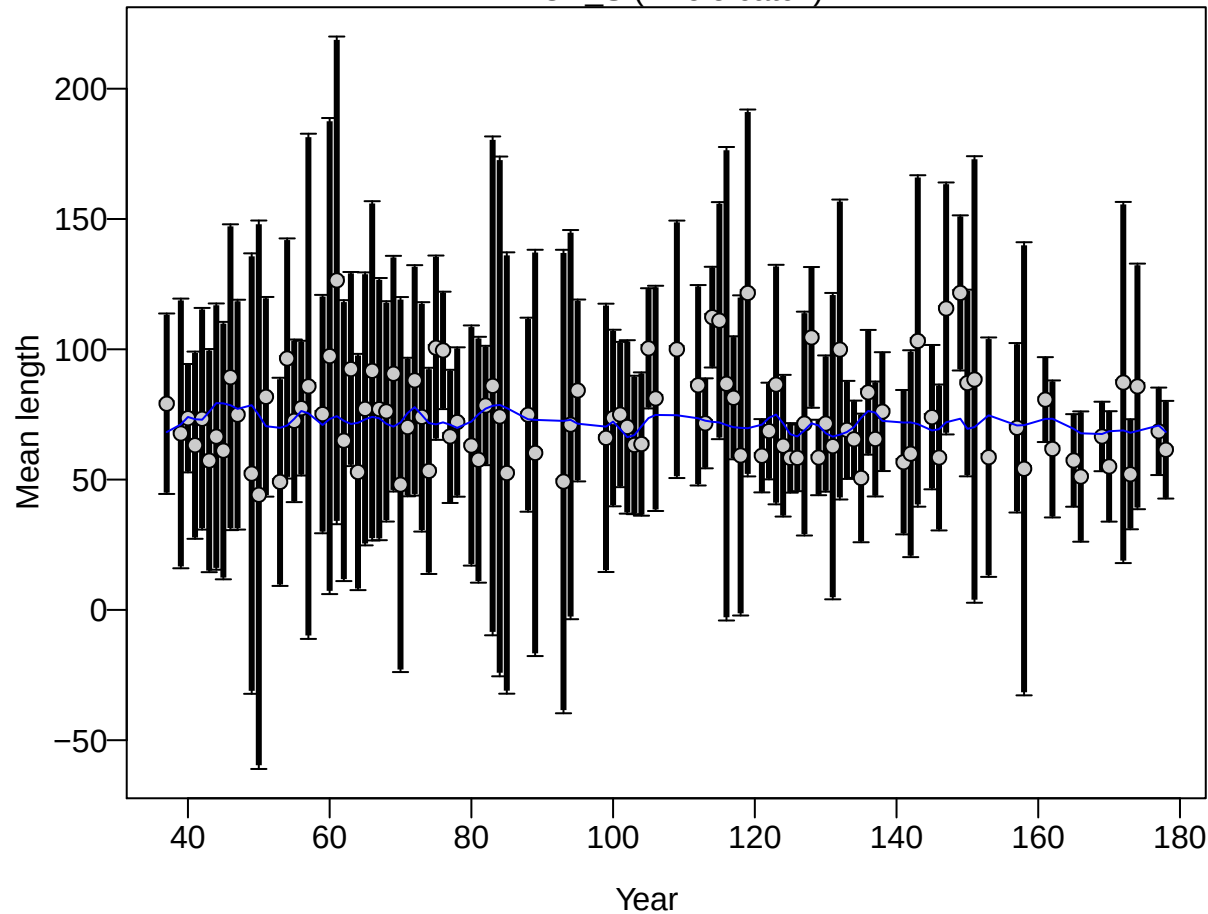


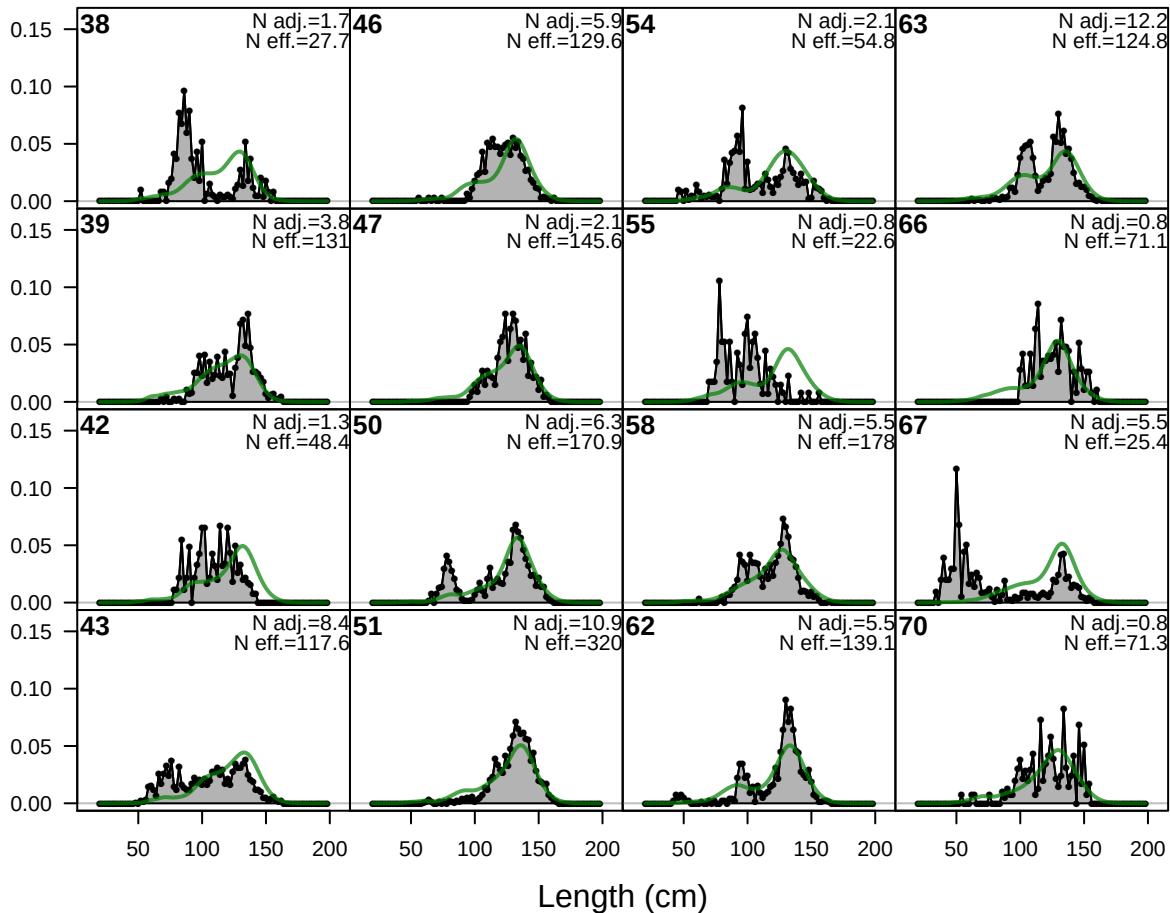
Effective sample size

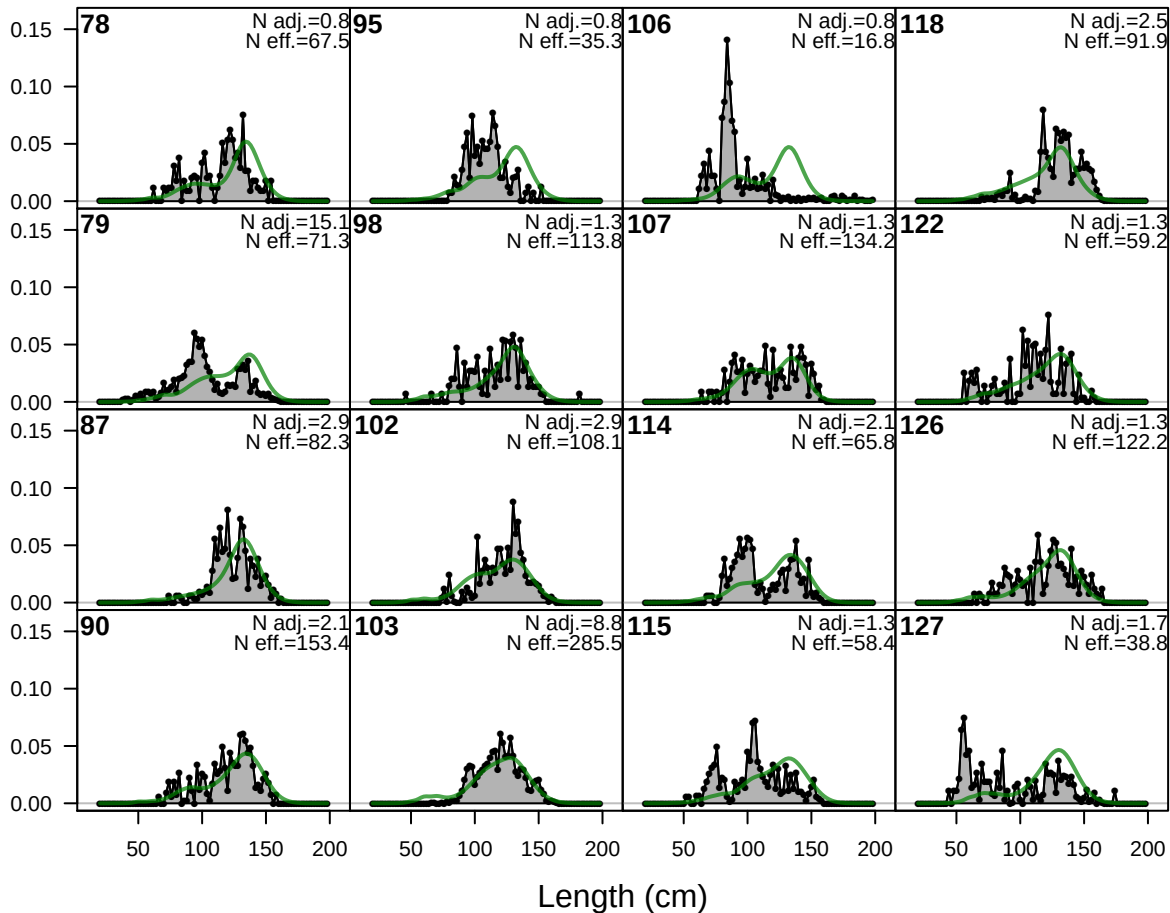


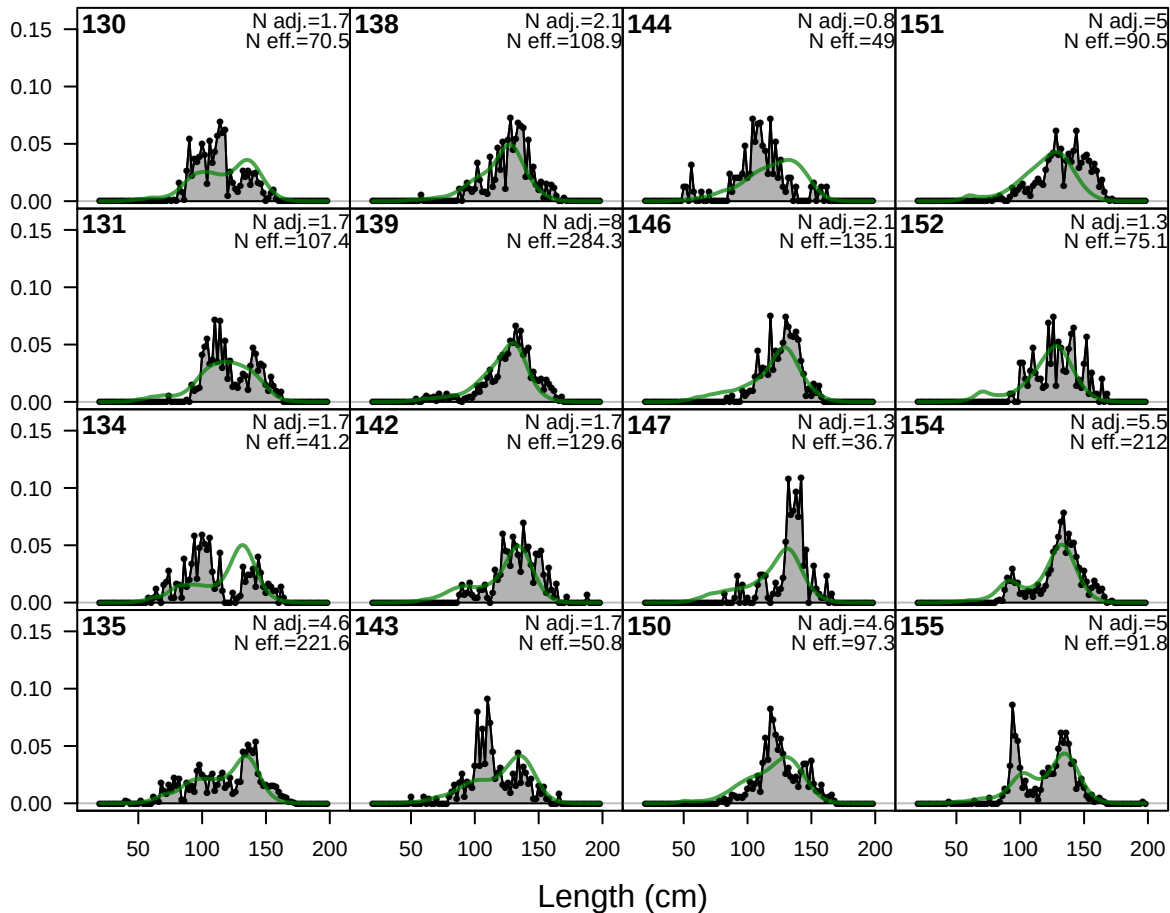
Observed sample size

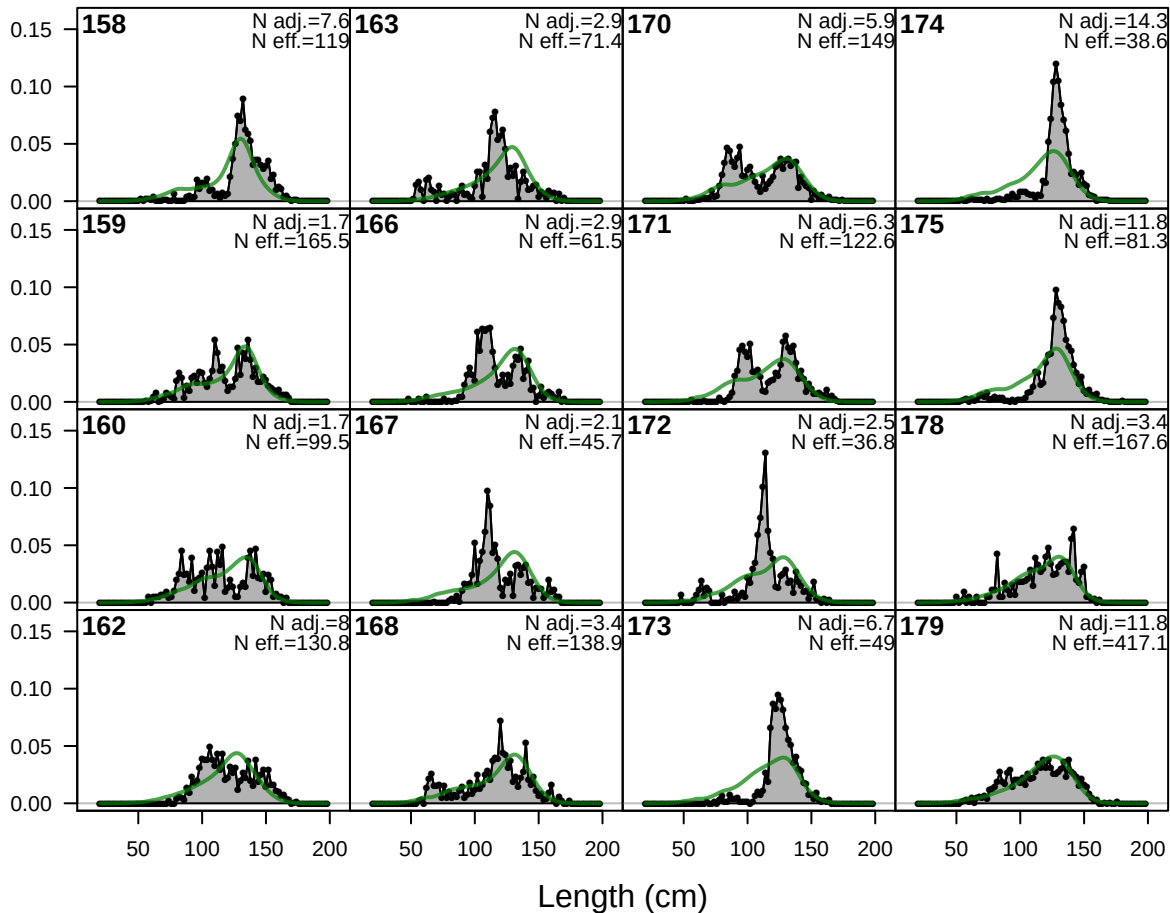
F14-NOA_S (whole catch)

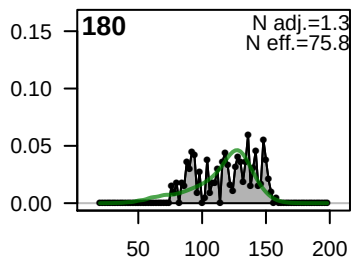




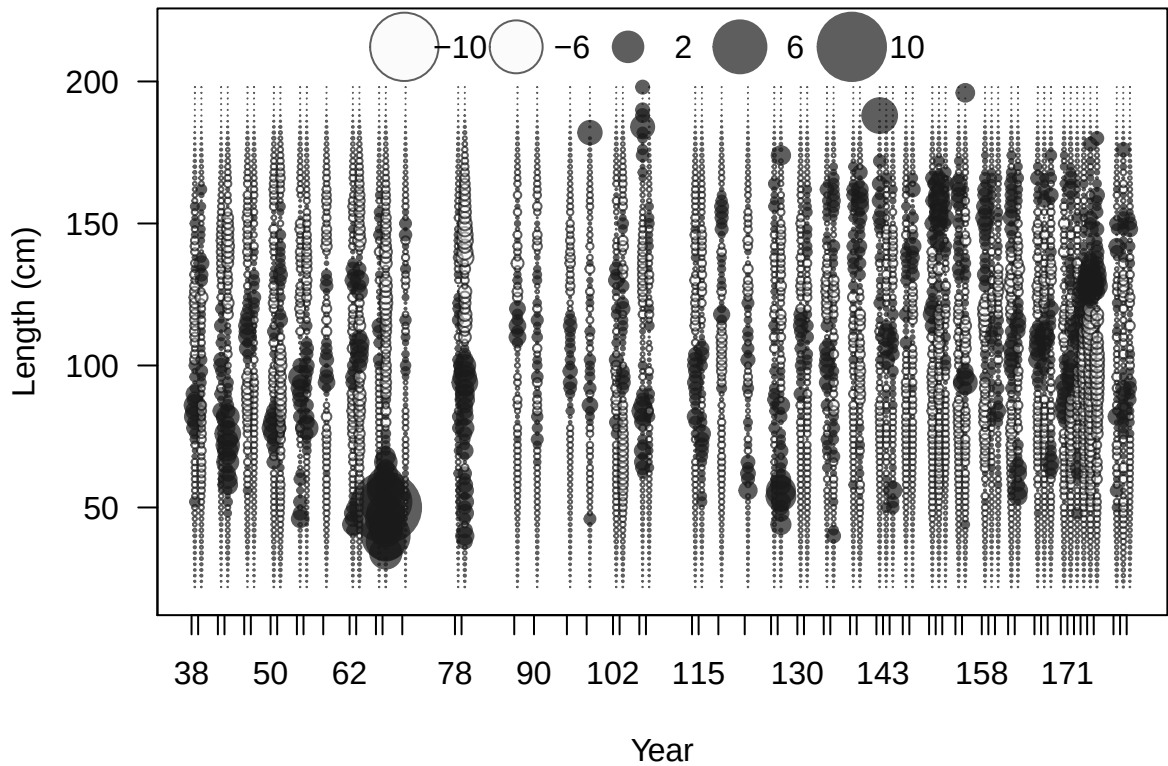




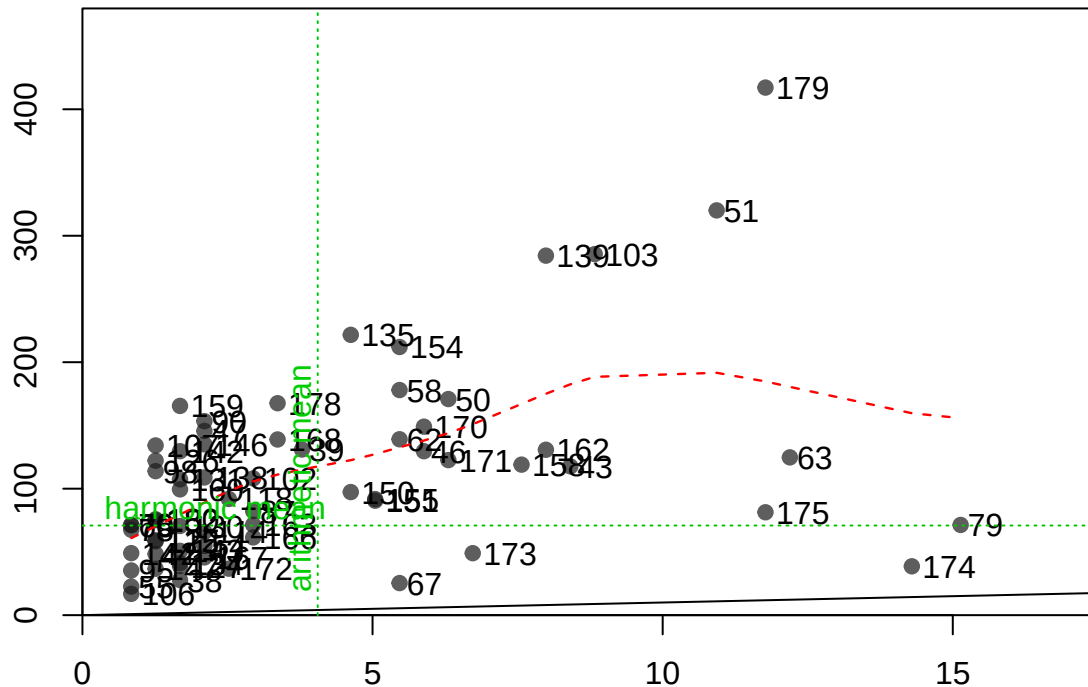




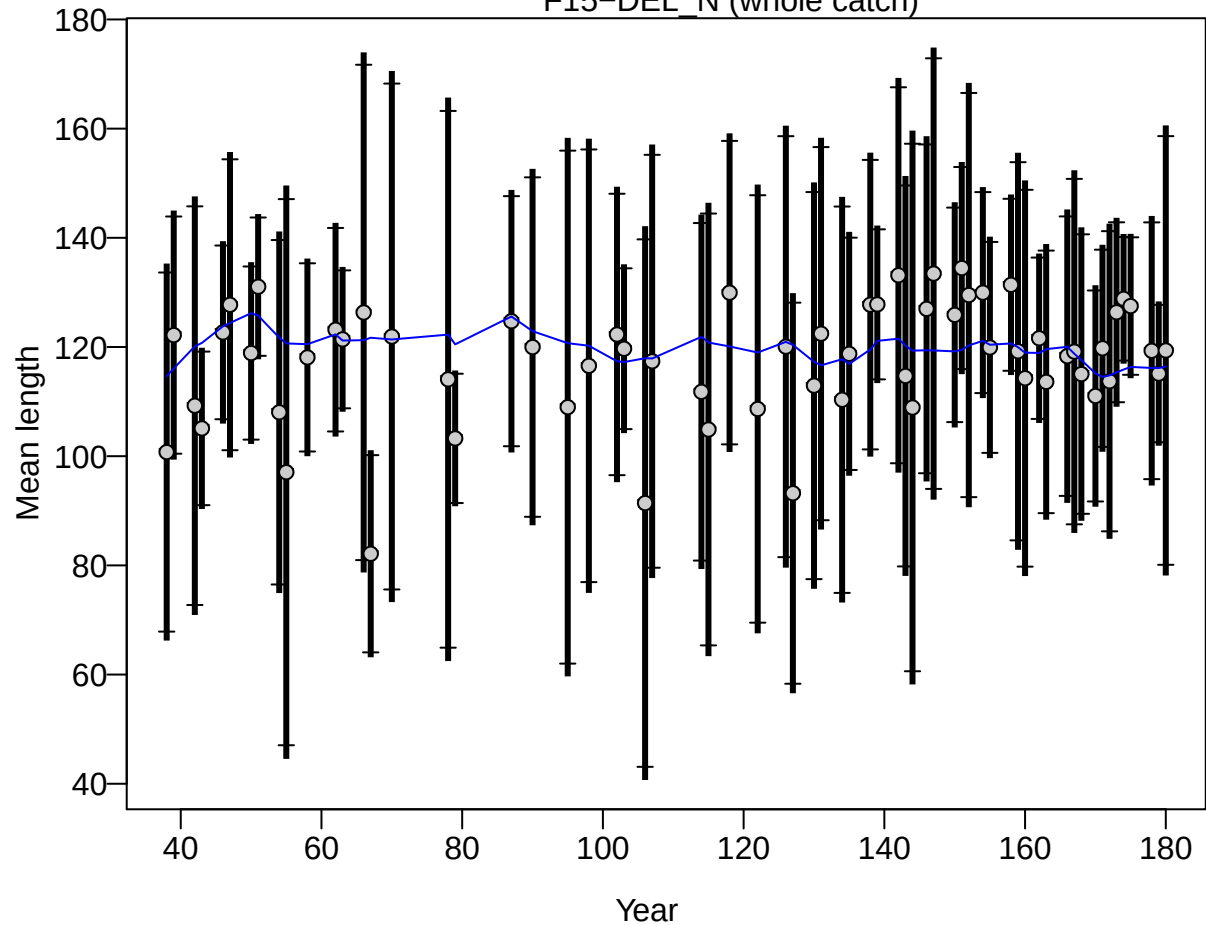
Length (cm)

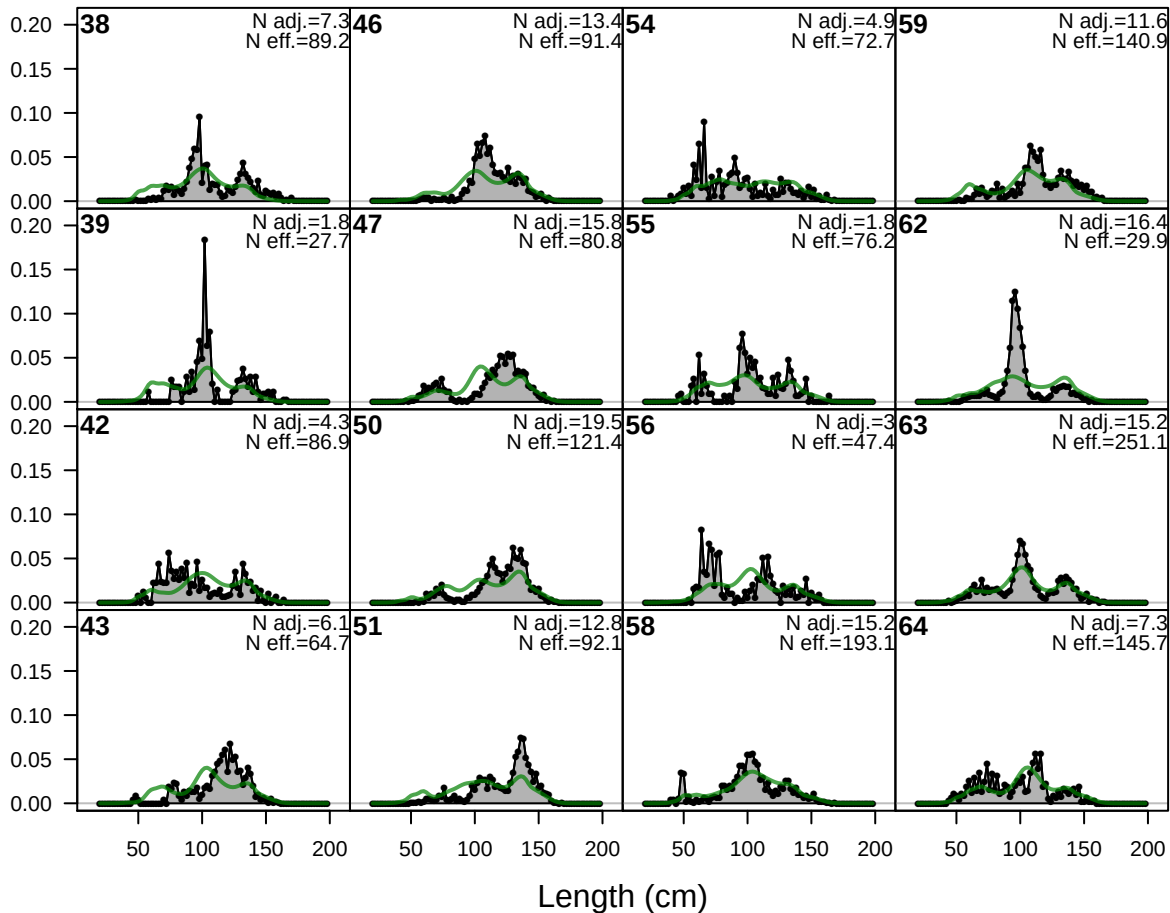


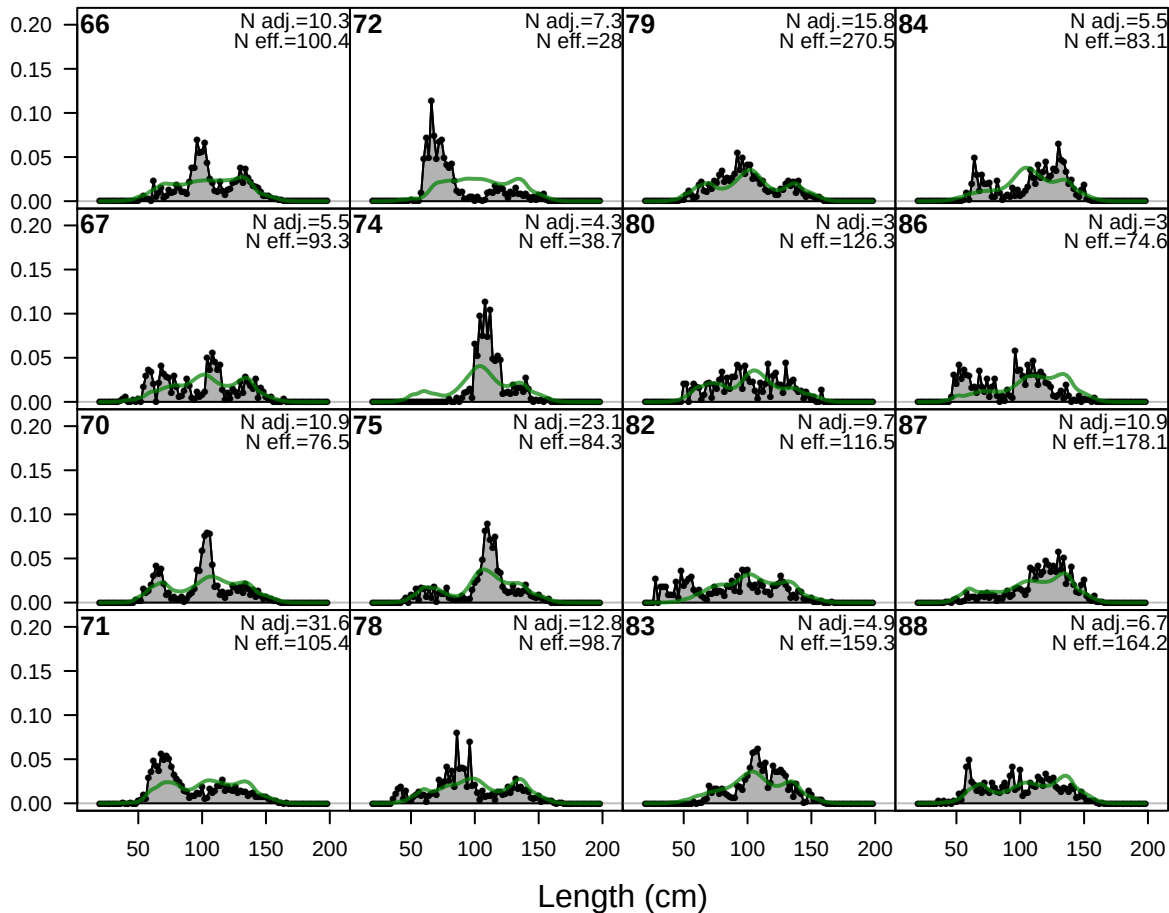
Effective sample size

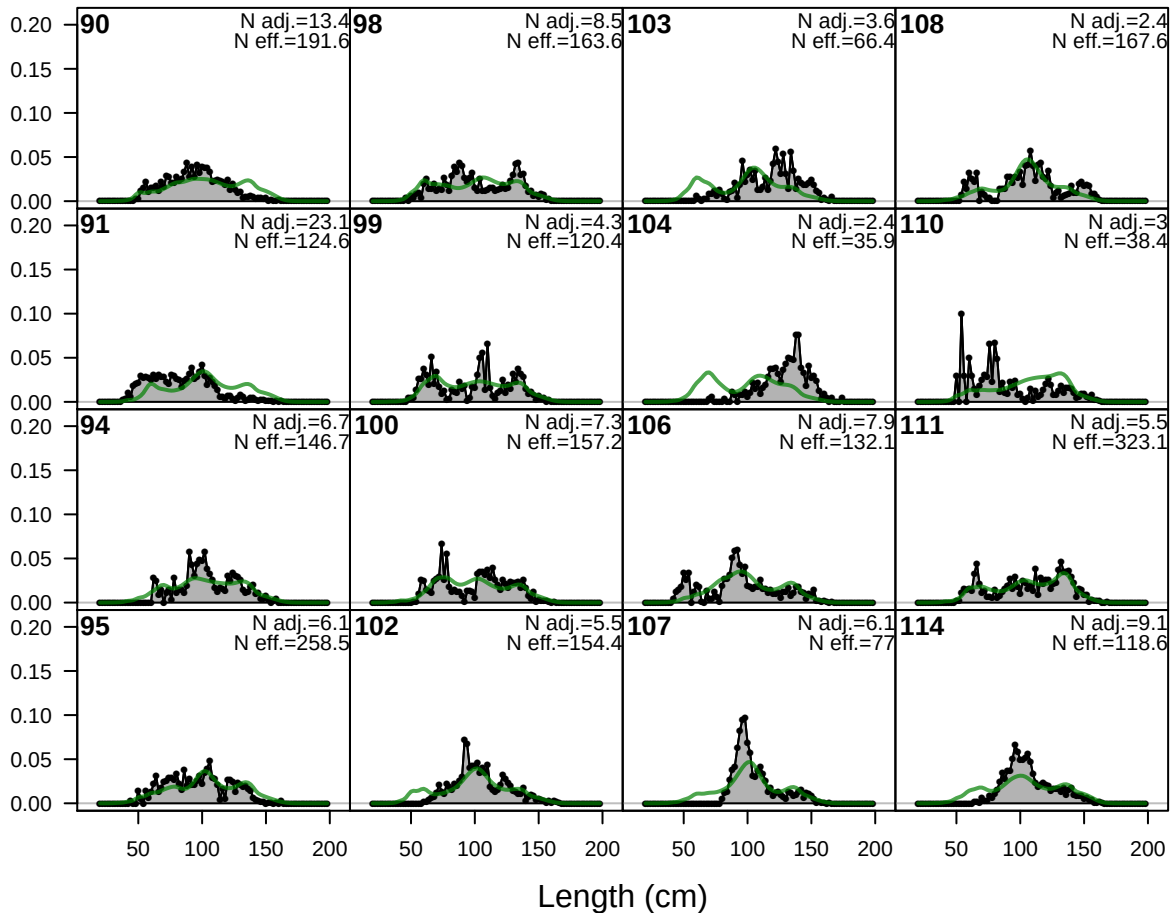


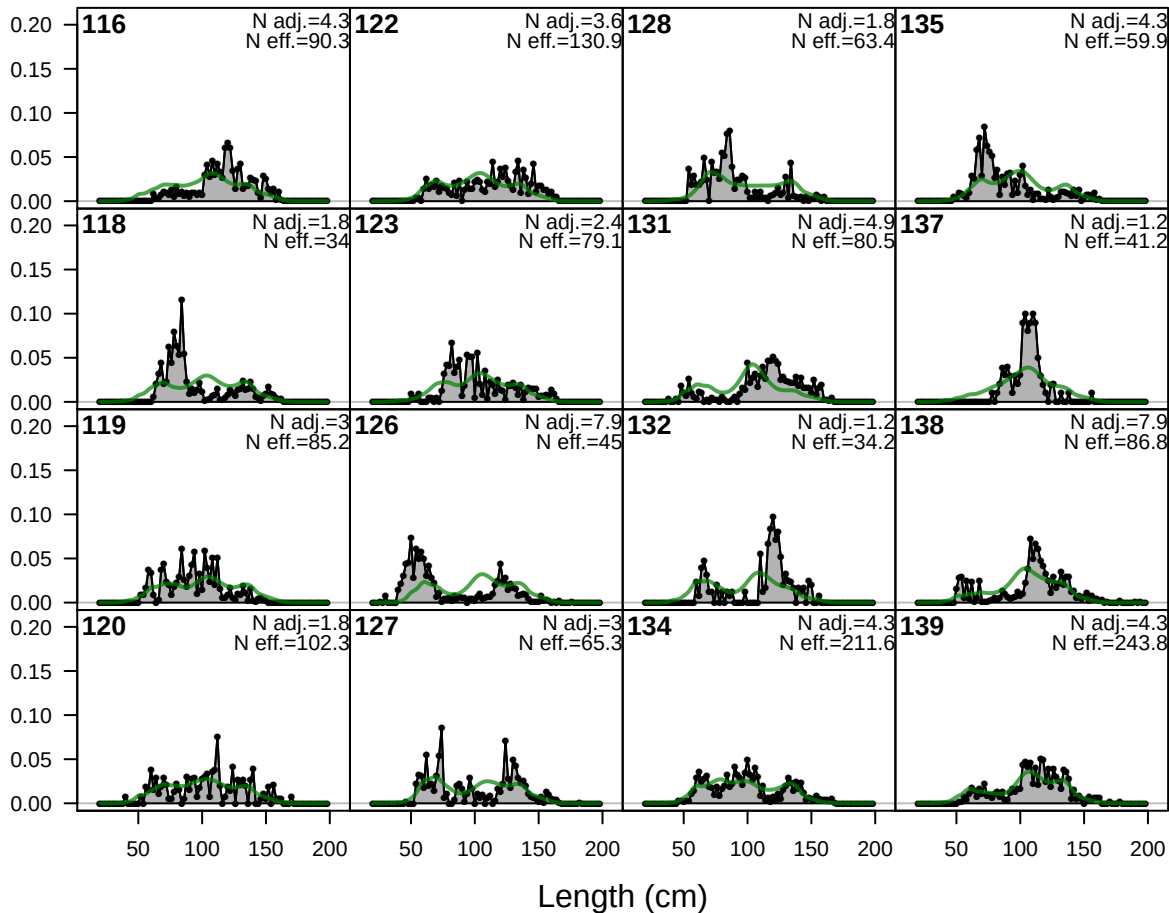
F15-DEL_N (whole catch)

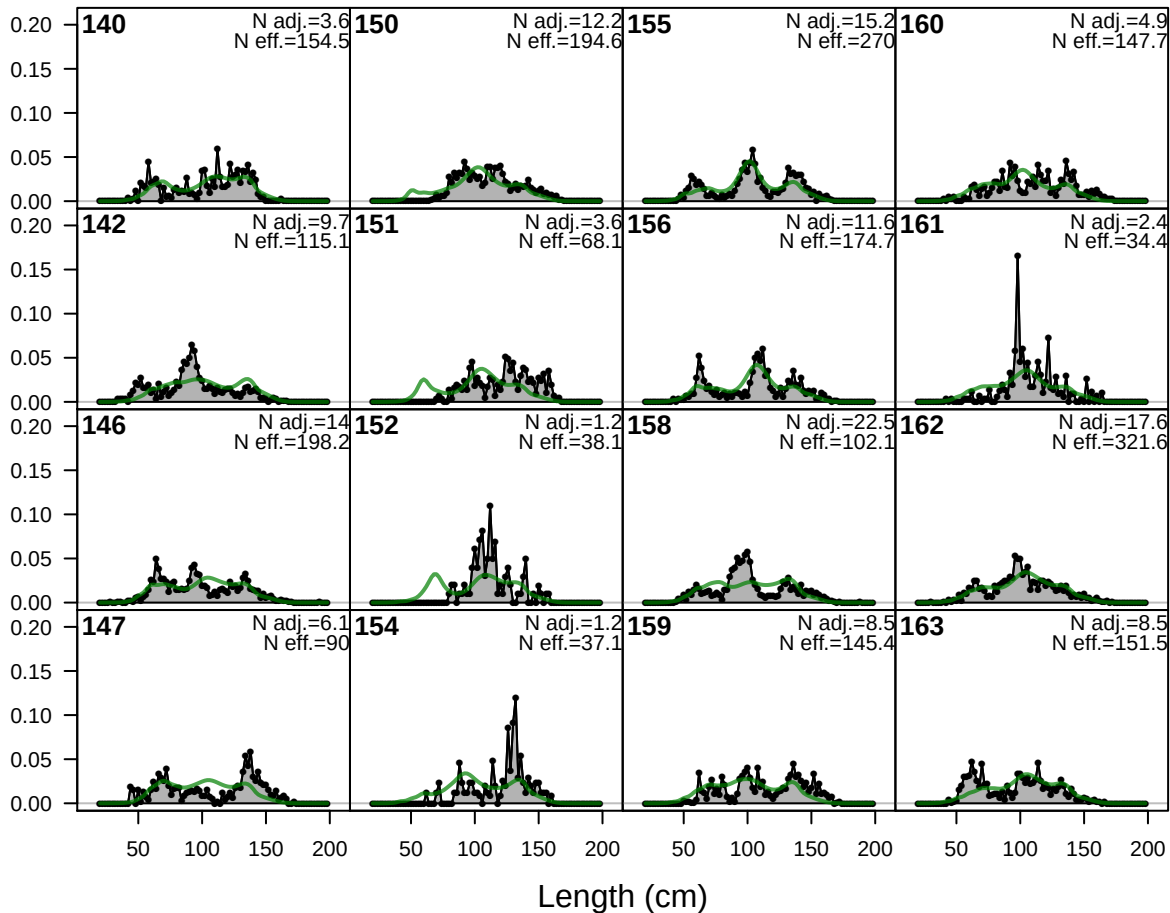




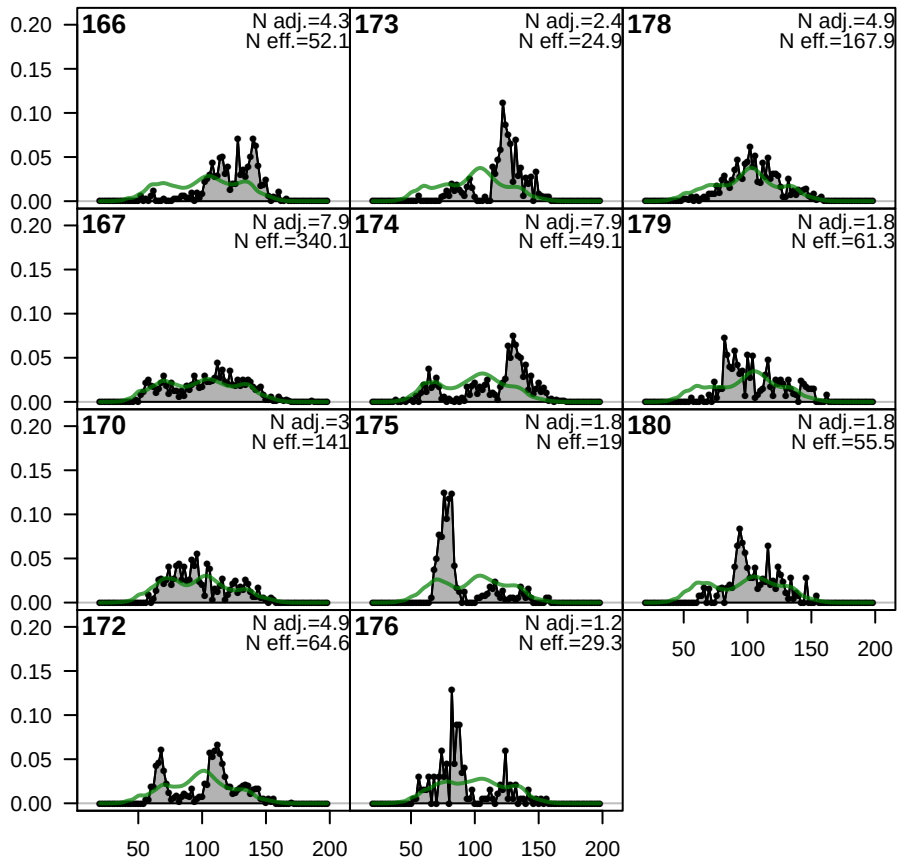




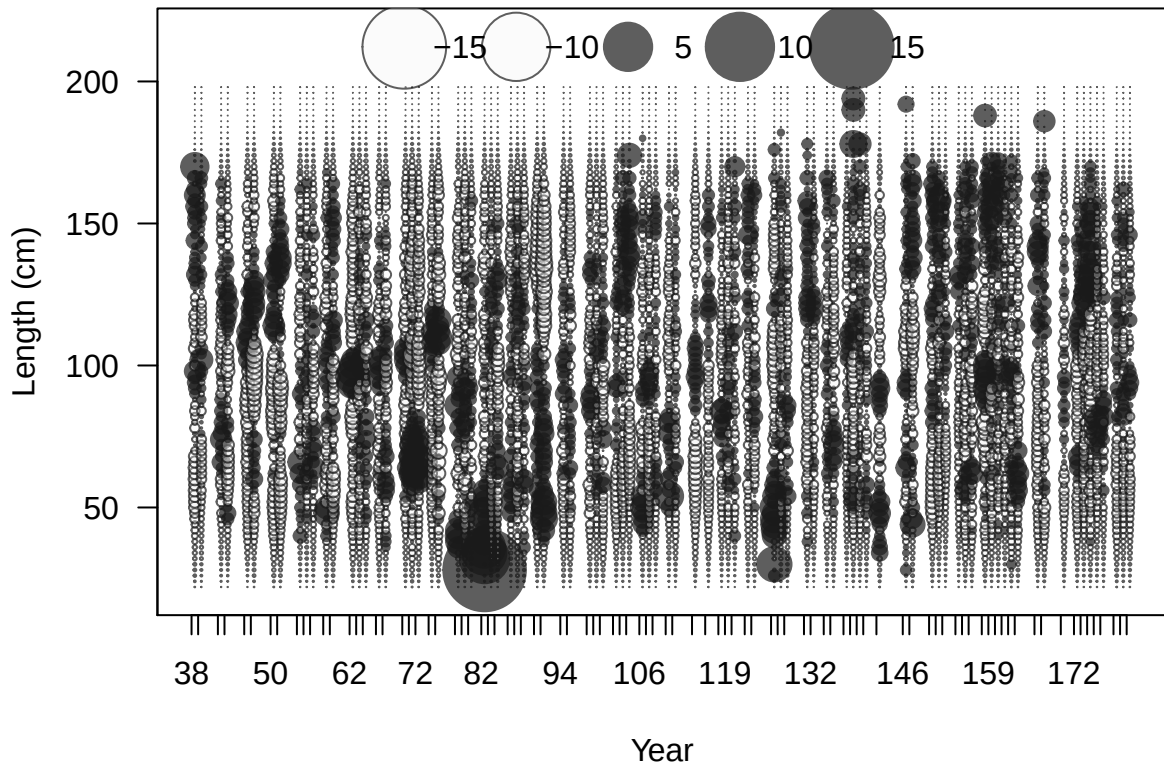




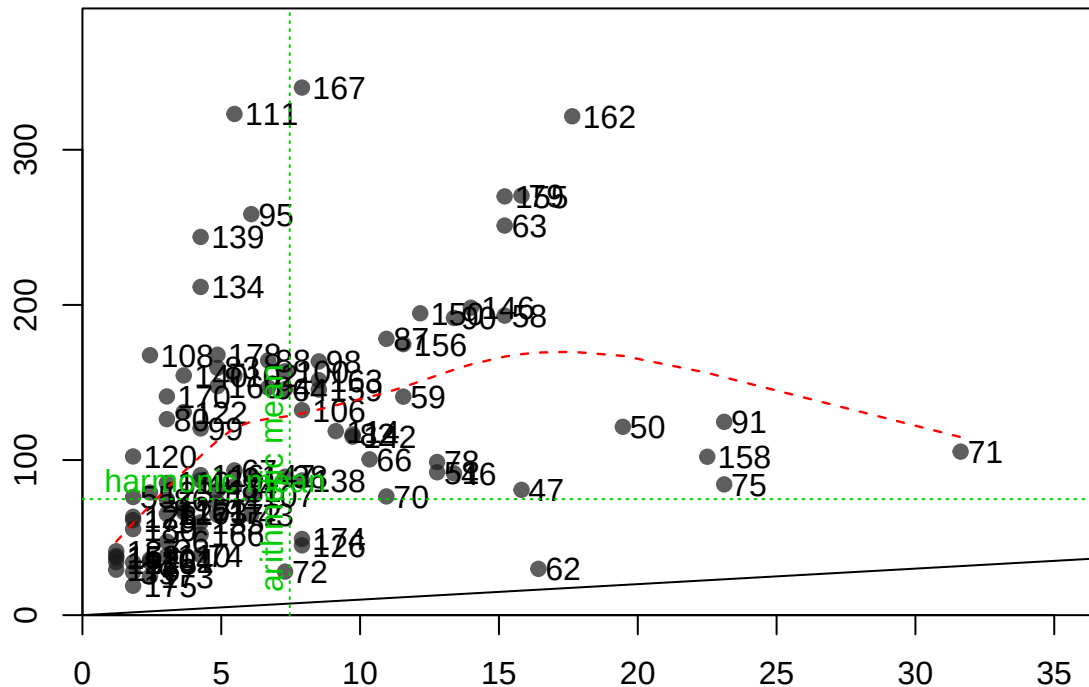
Proportion



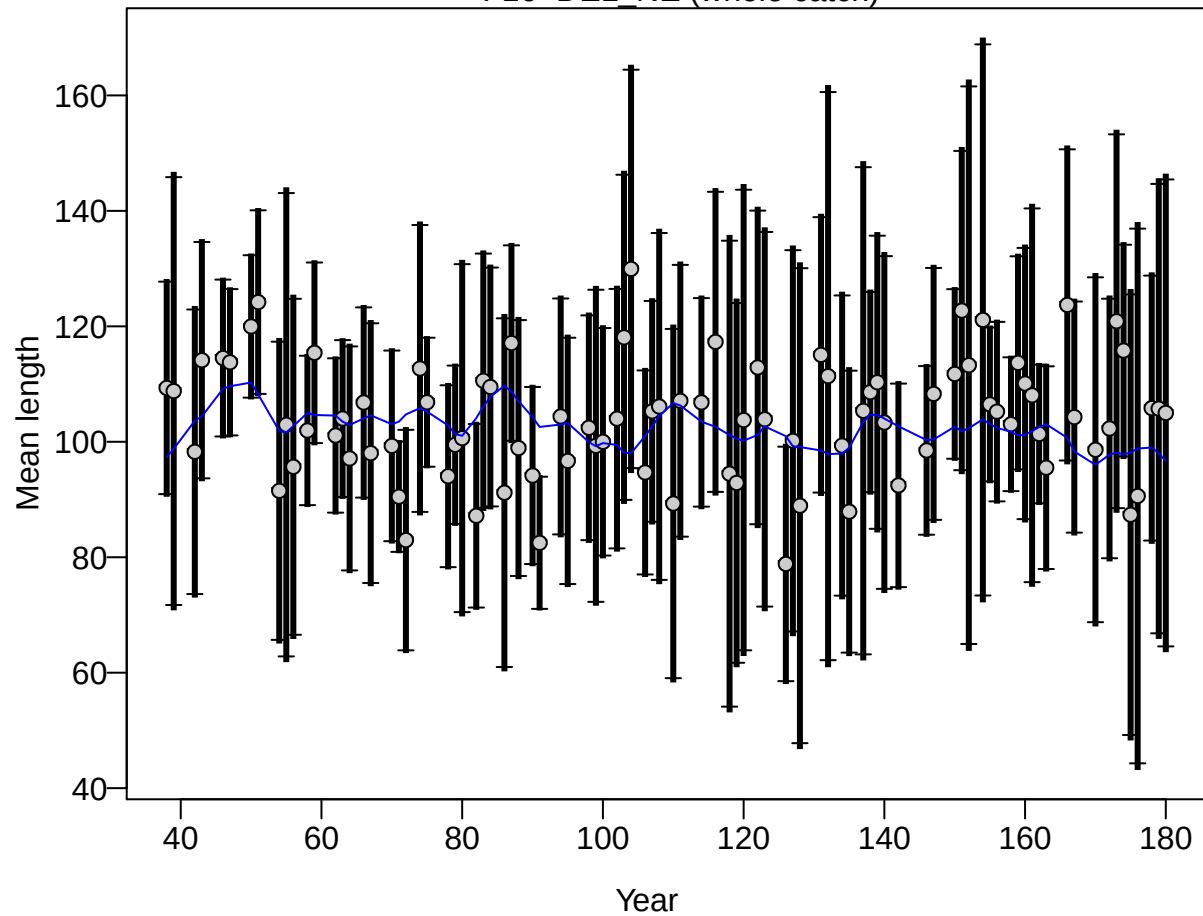
Length (cm)

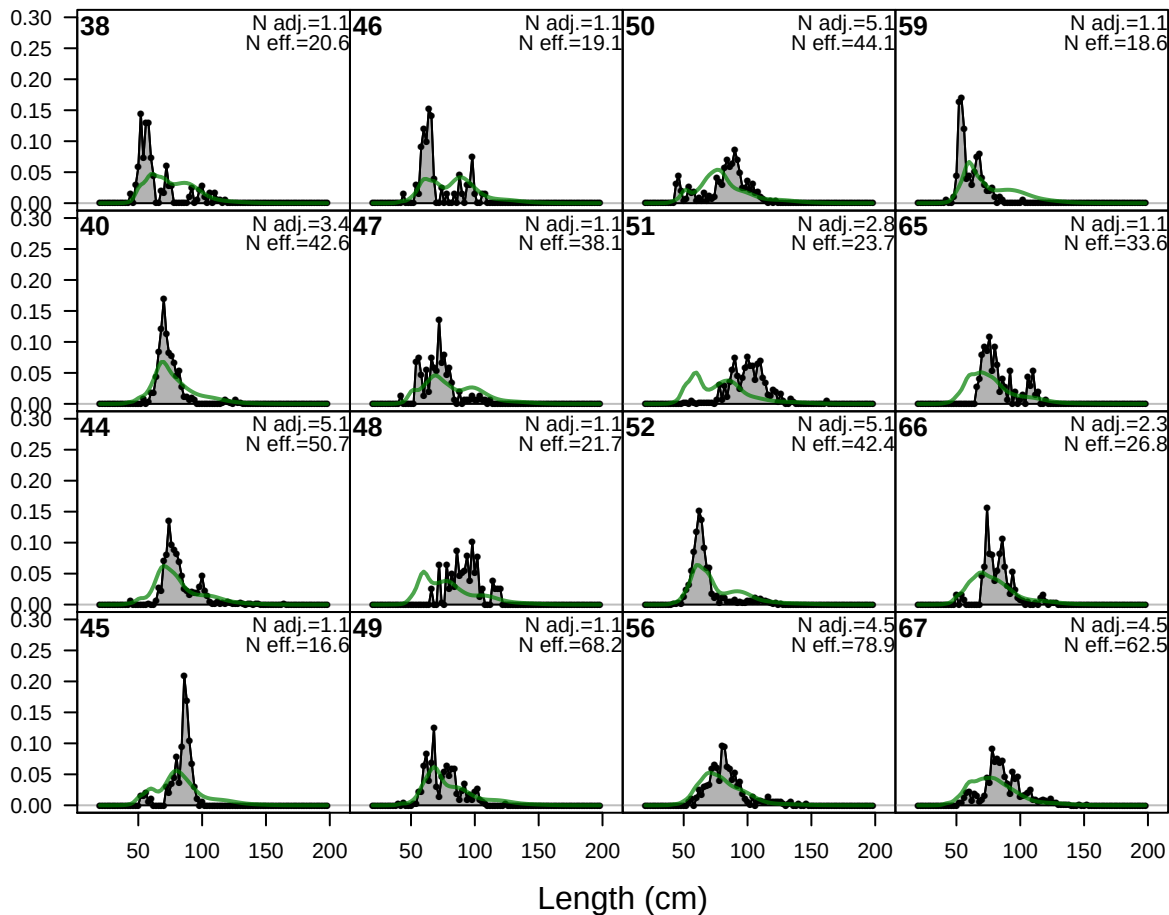


Effective sample size

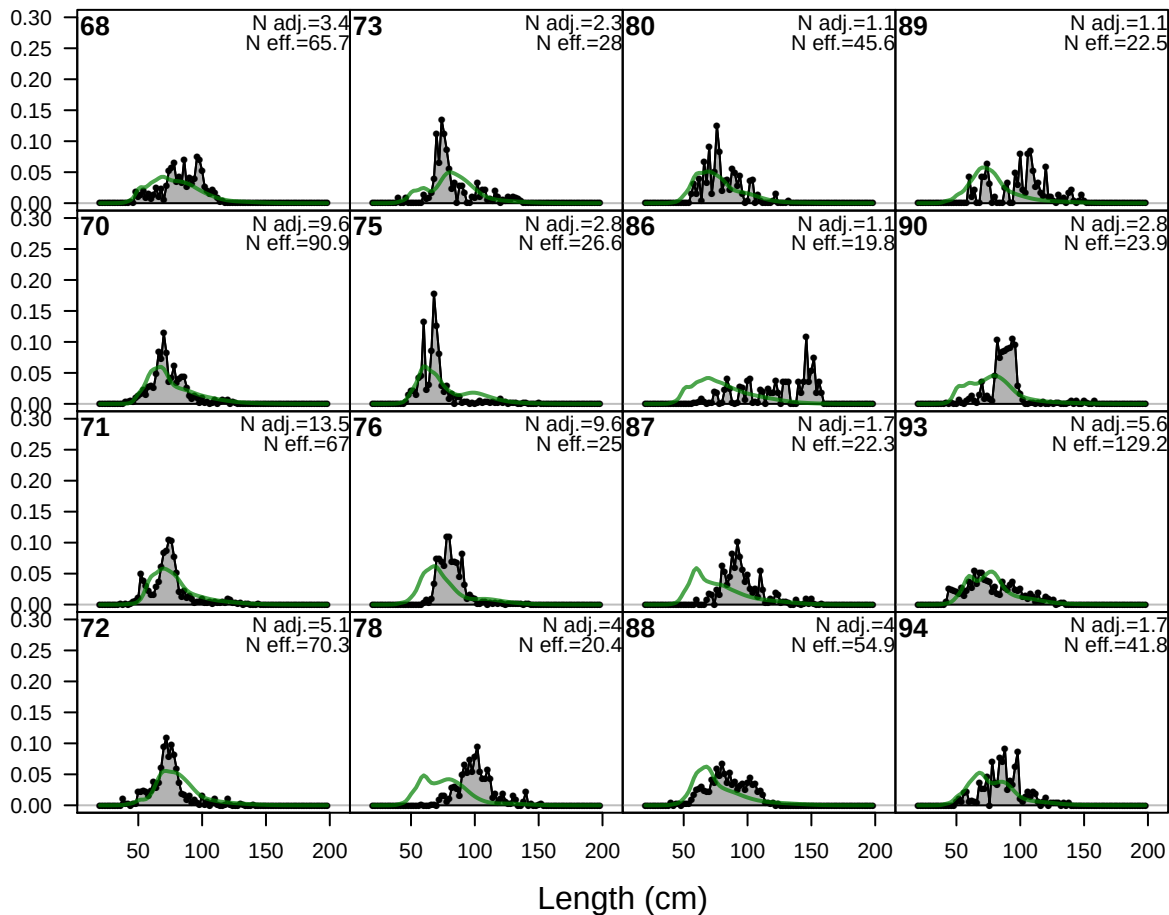


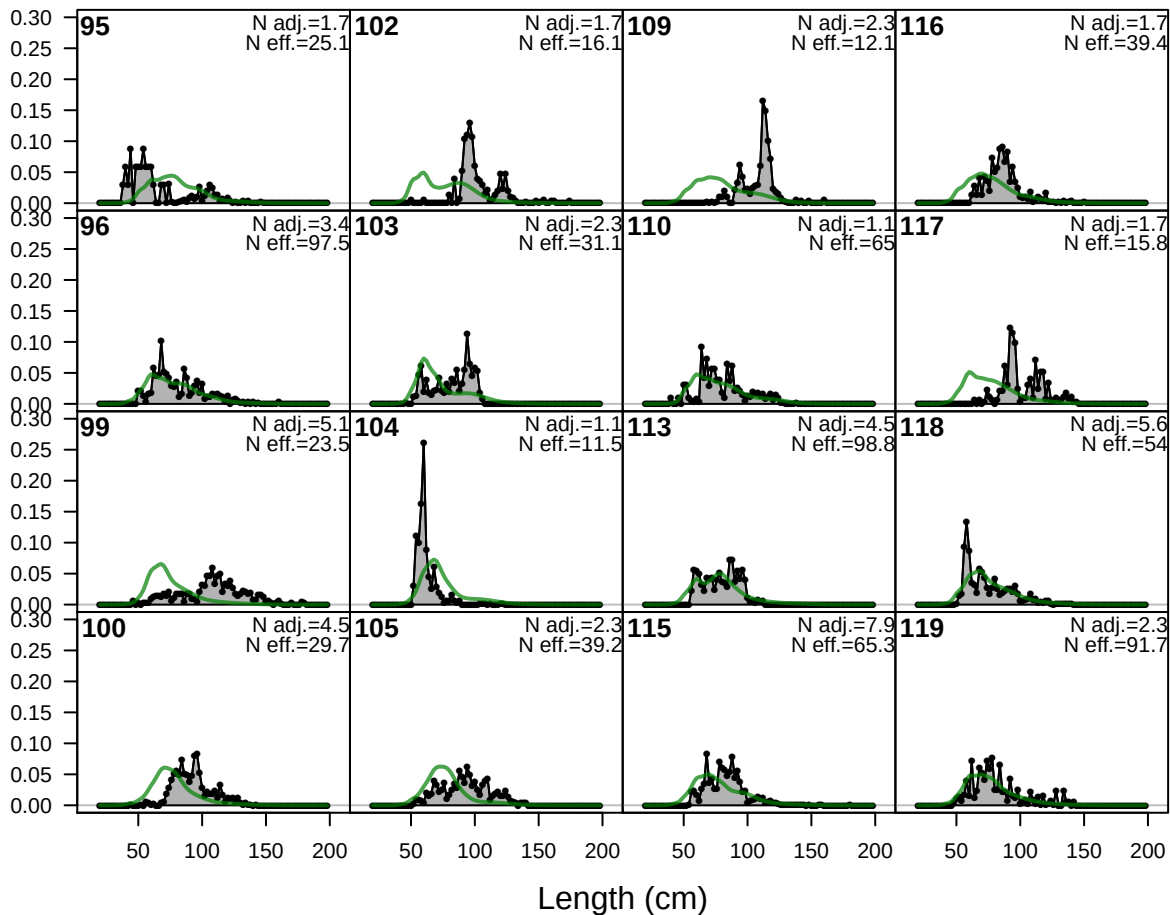
F16-DEL_NE (whole catch)

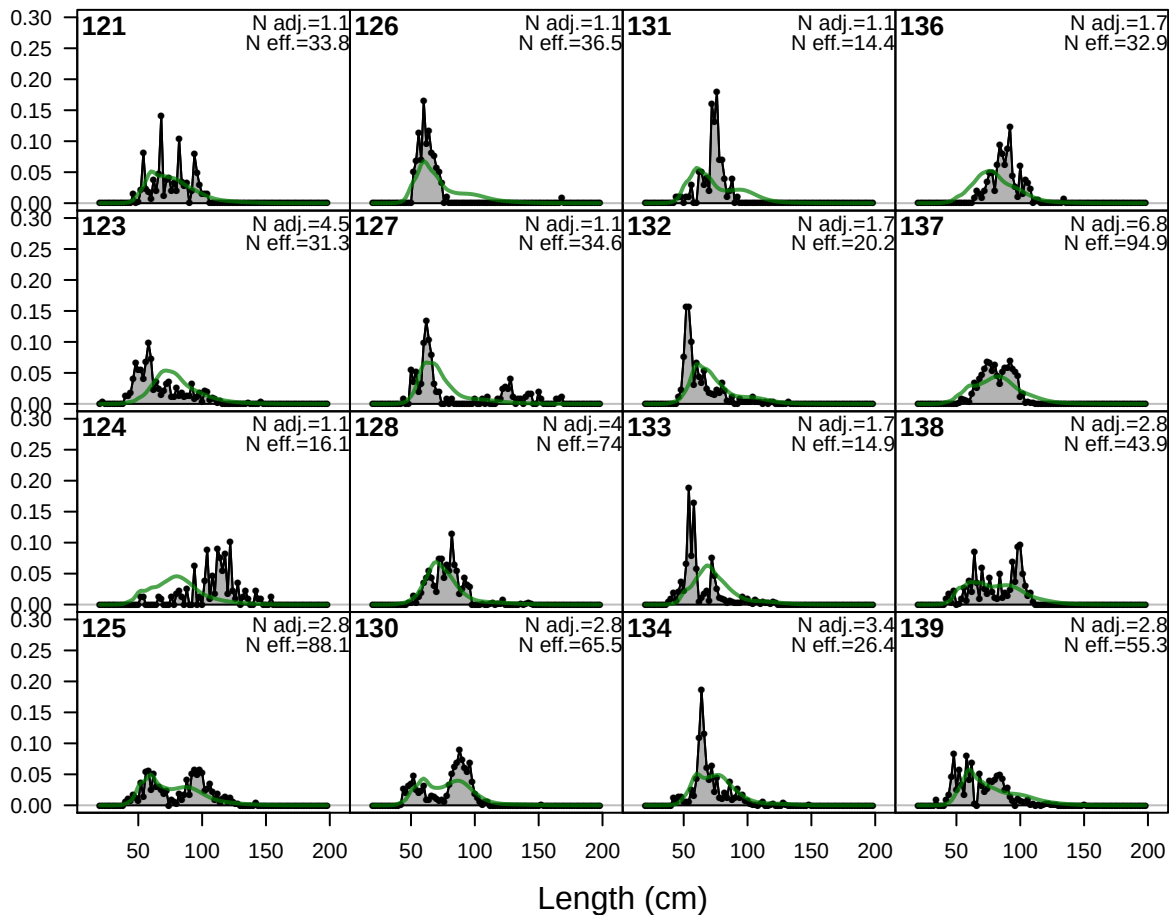


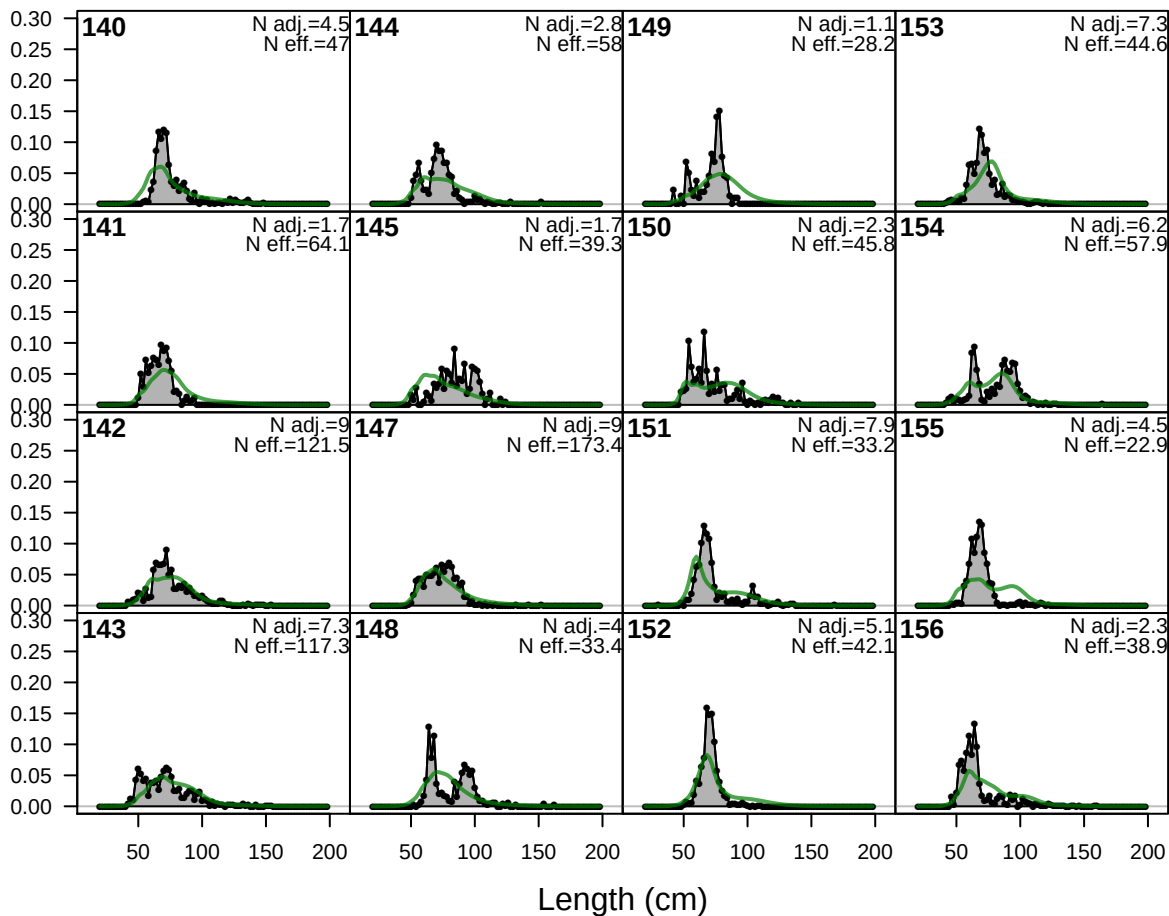


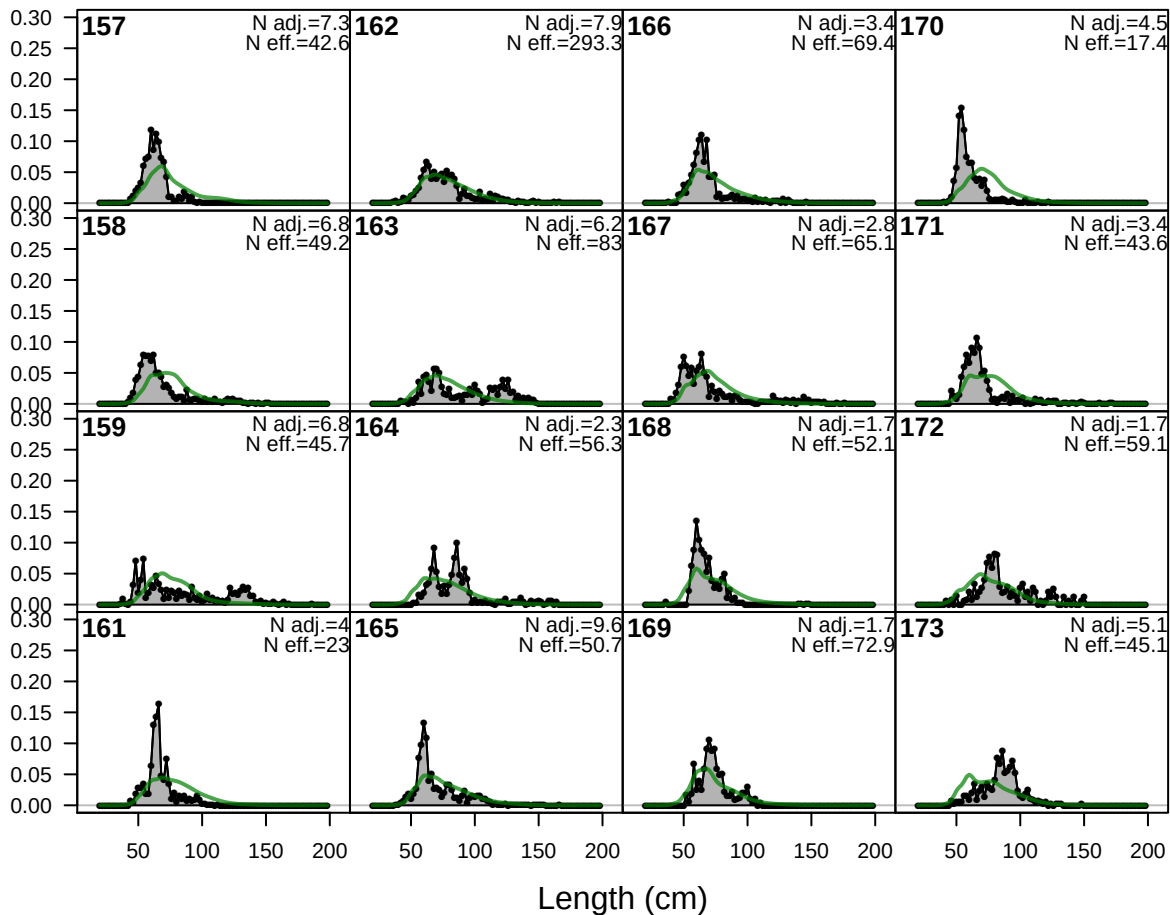
Proportion



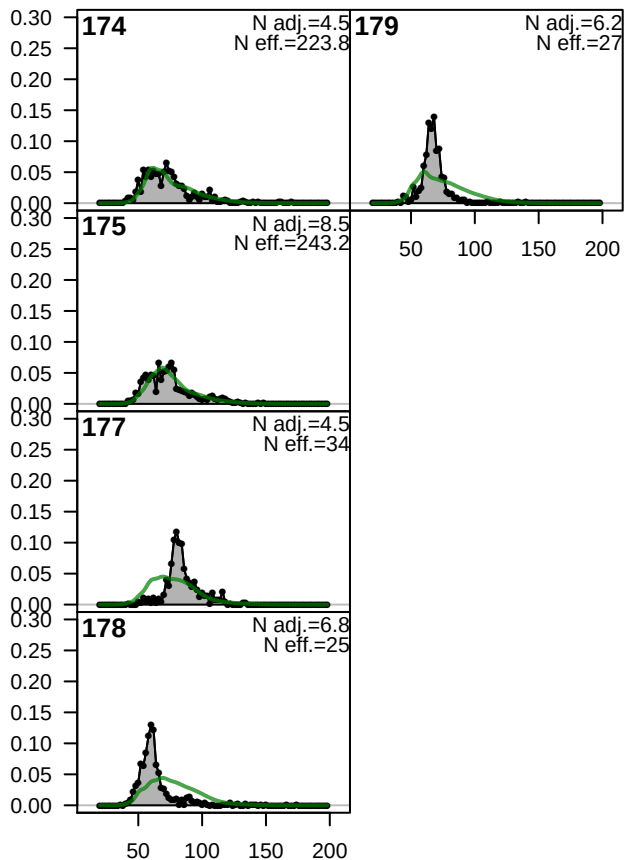




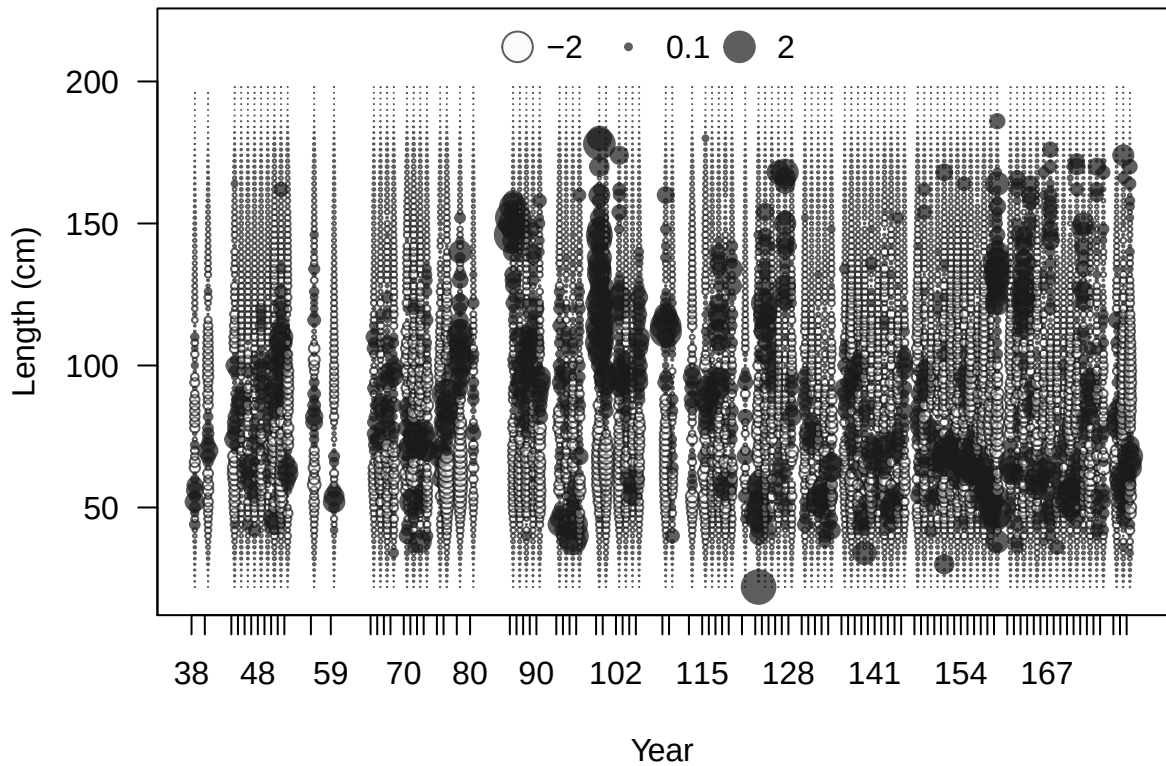




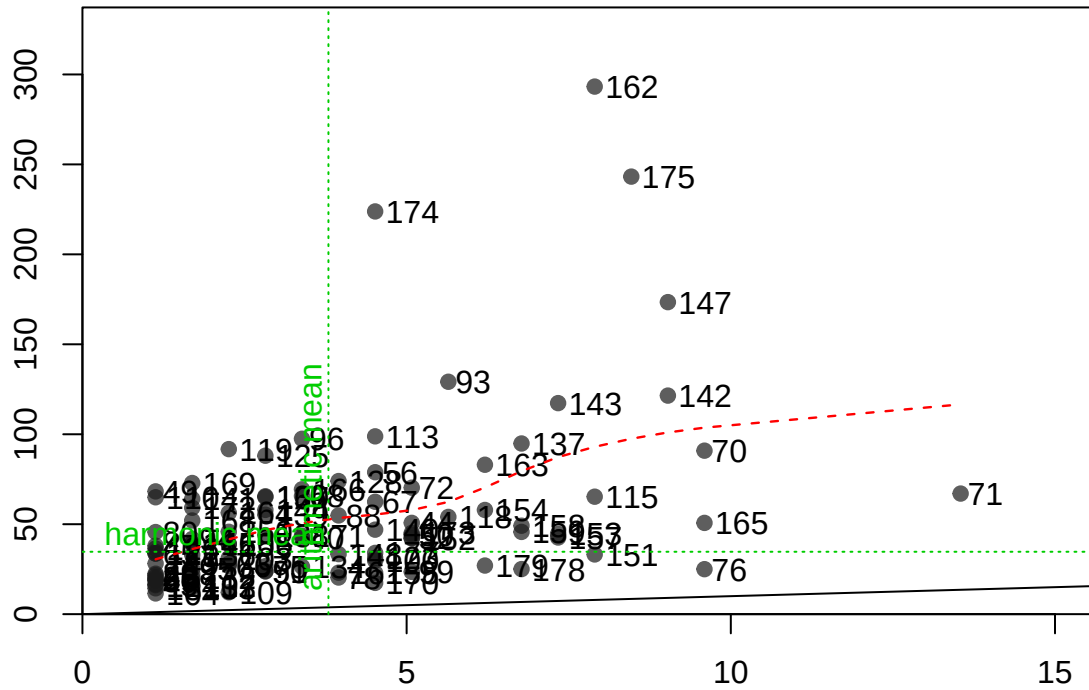
Proportion



Length (cm)

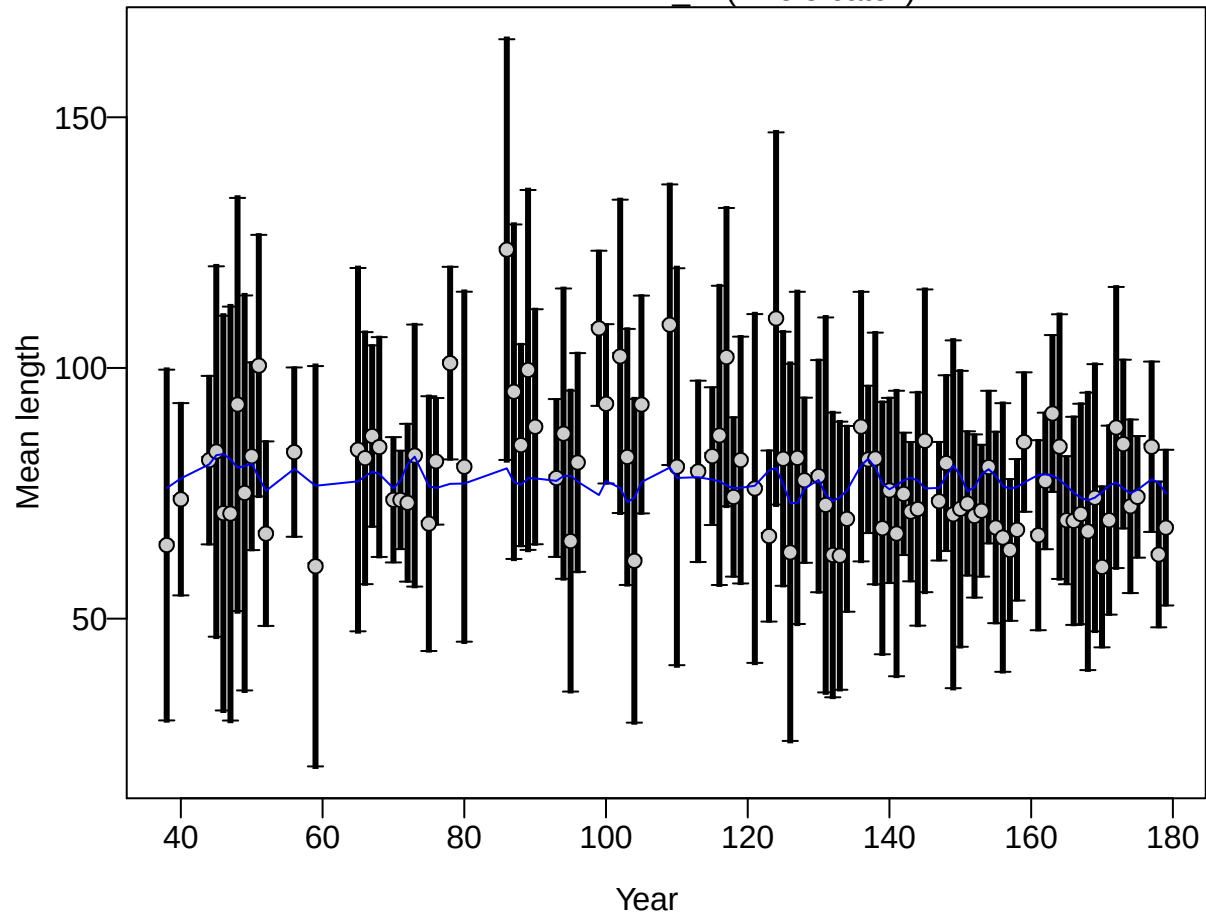


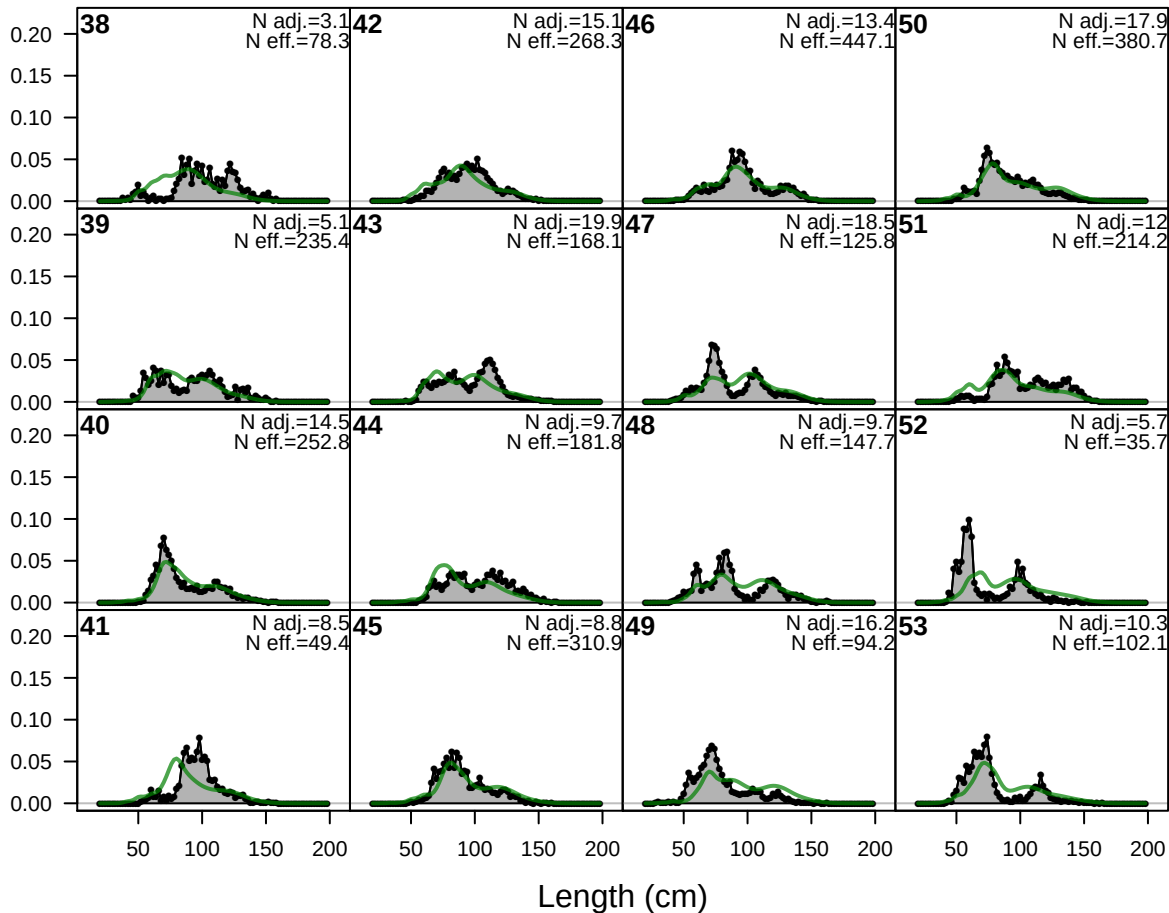
Effective sample size

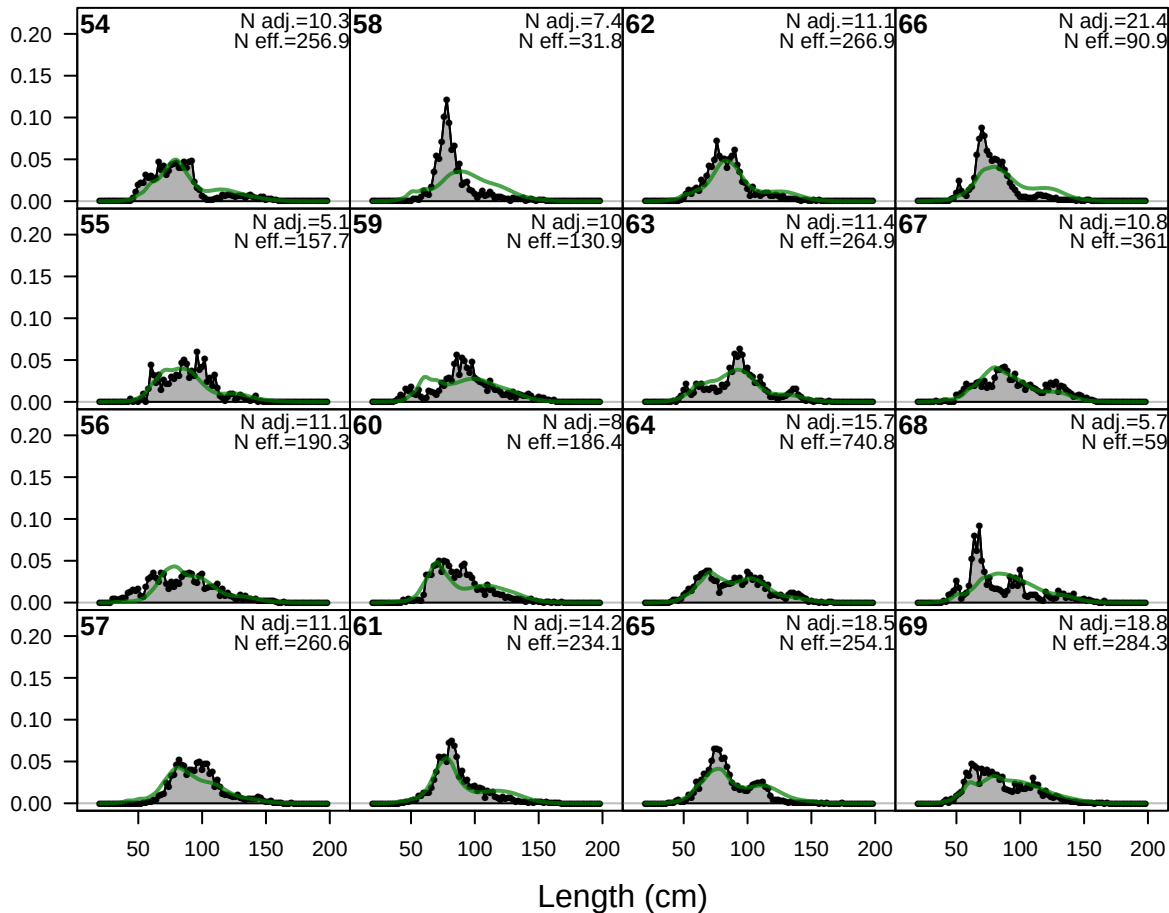


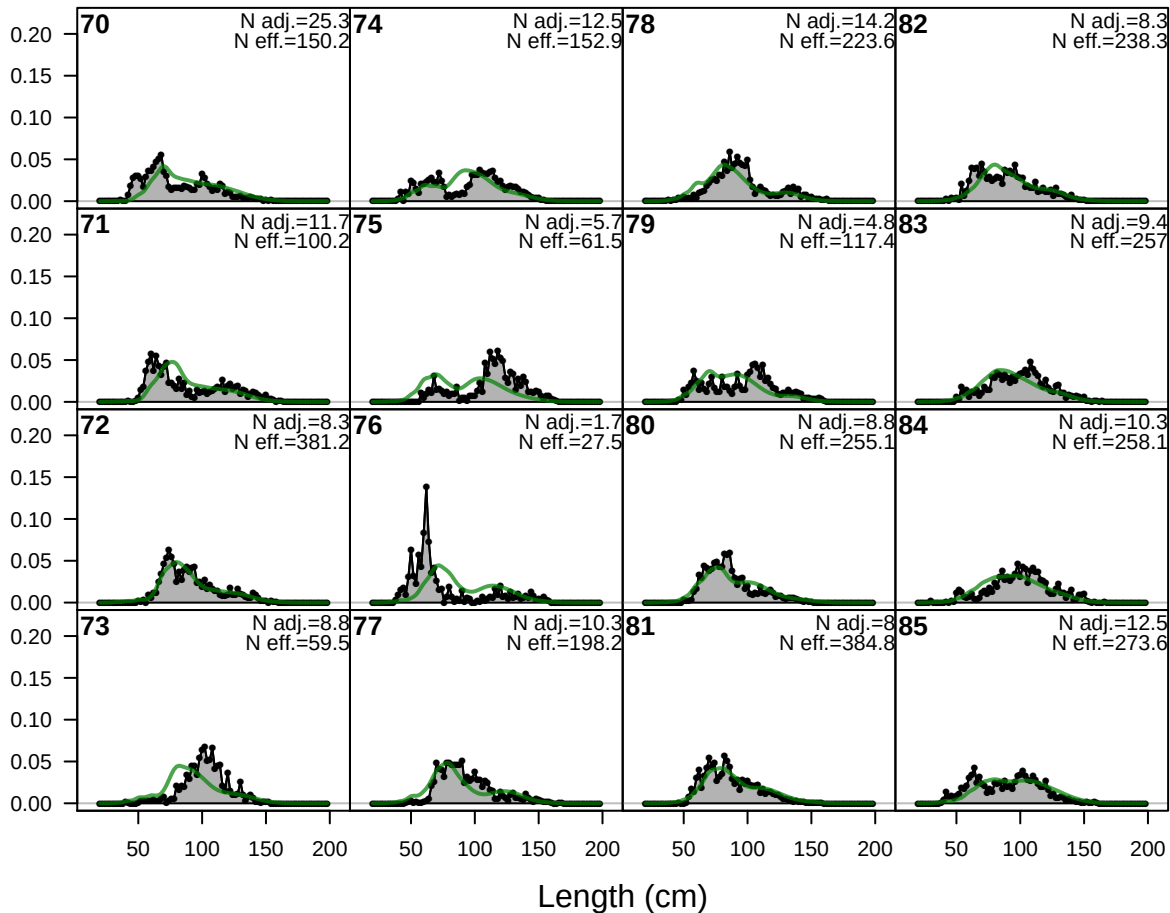
Observed sample size

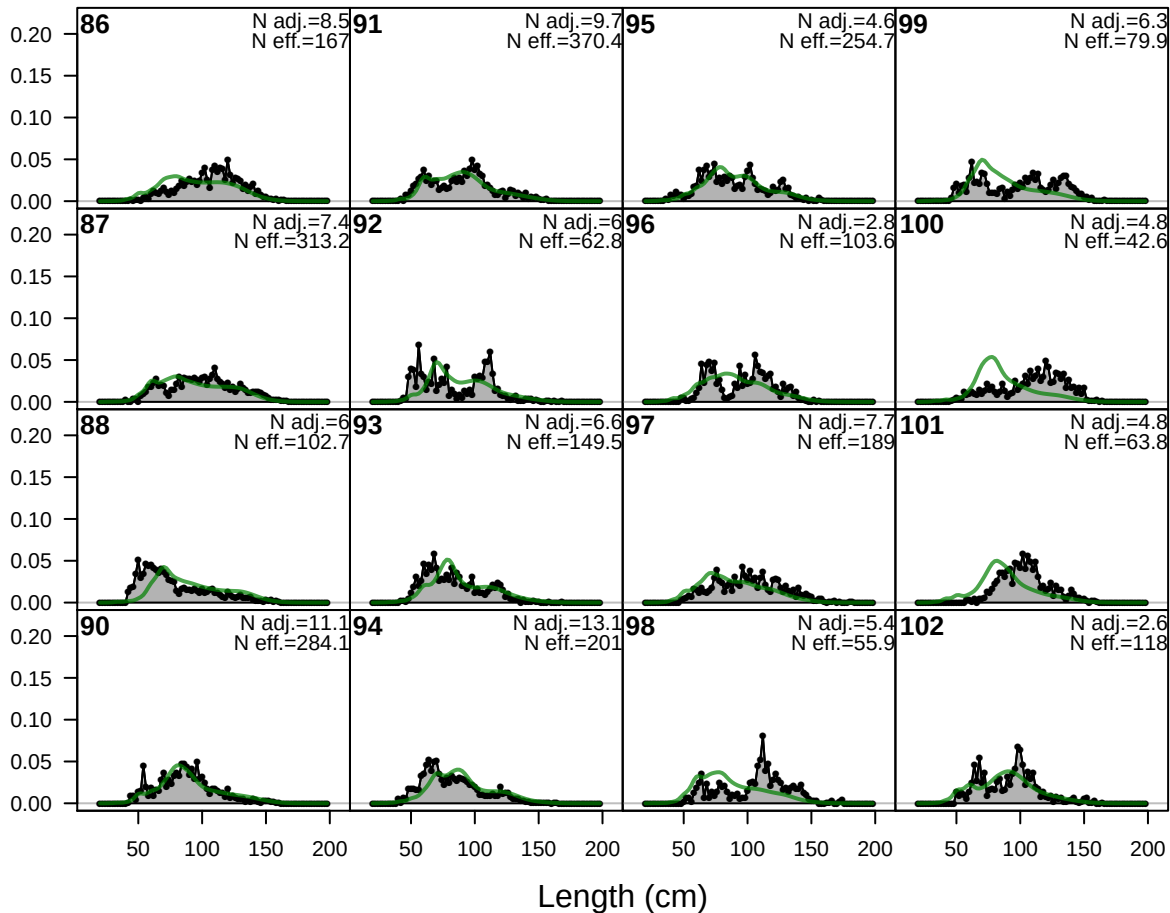
F17-DEL_M (whole catch)

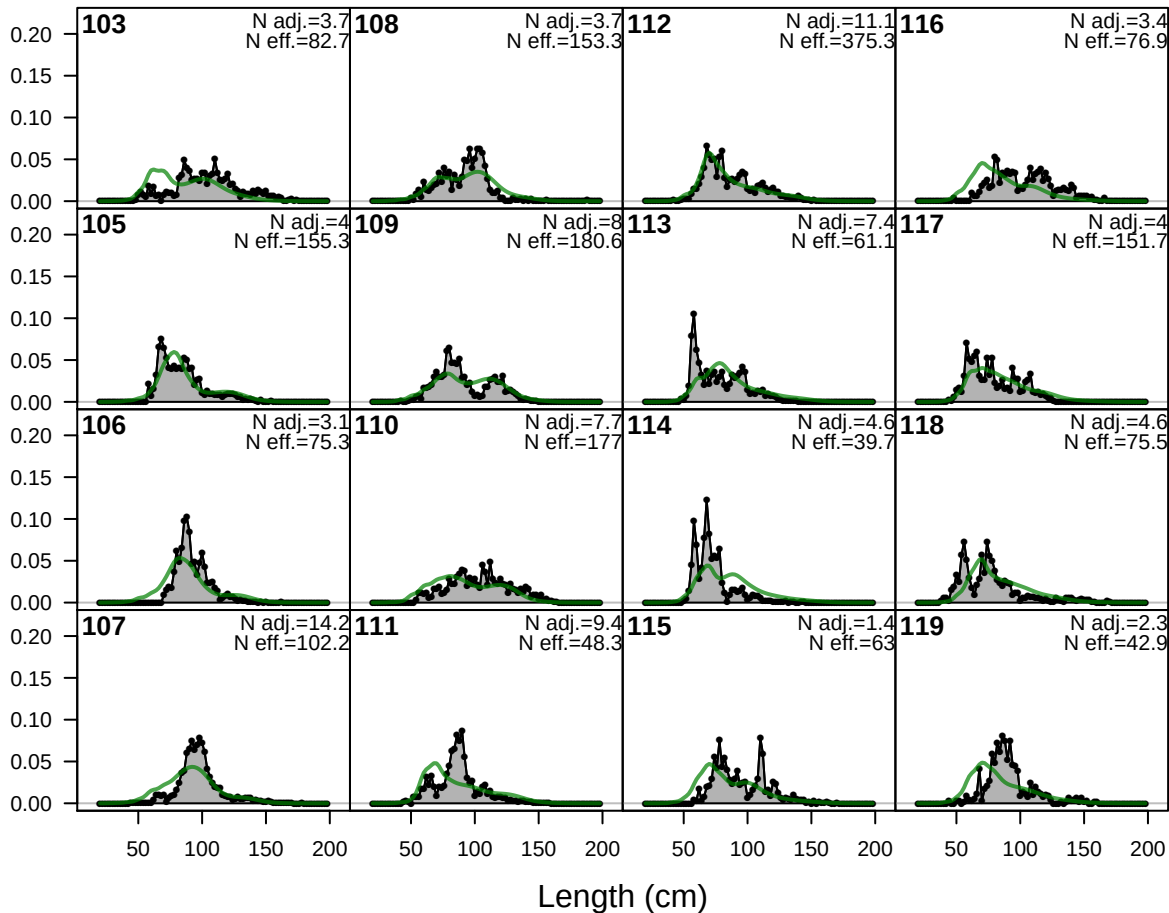


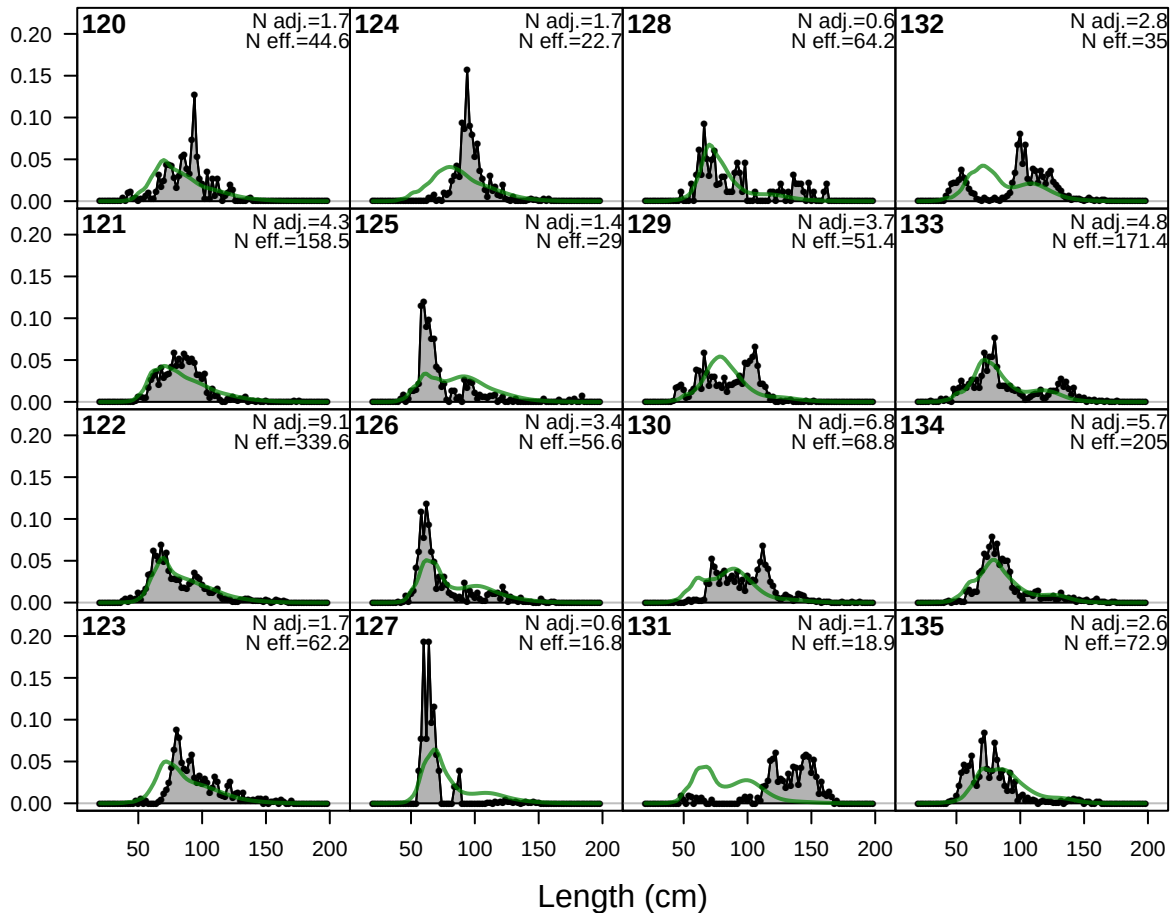


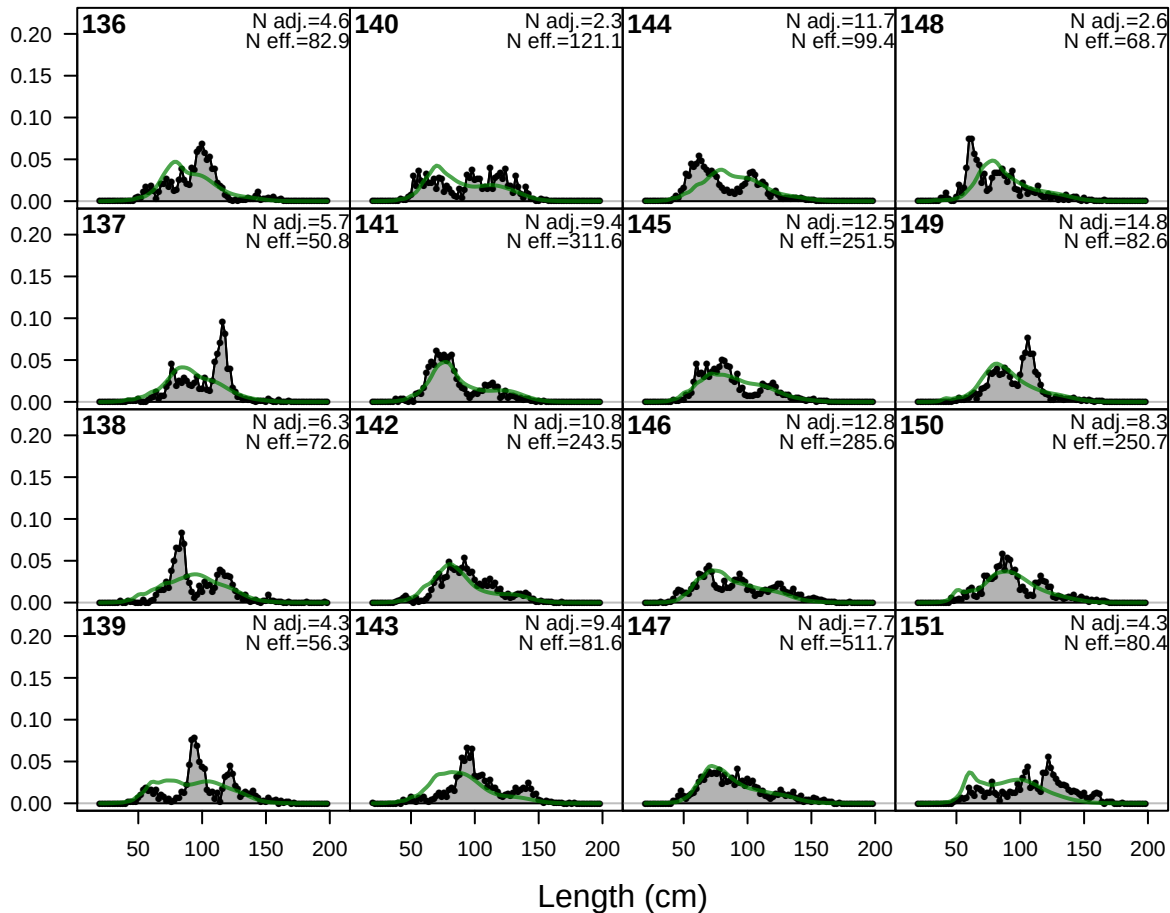


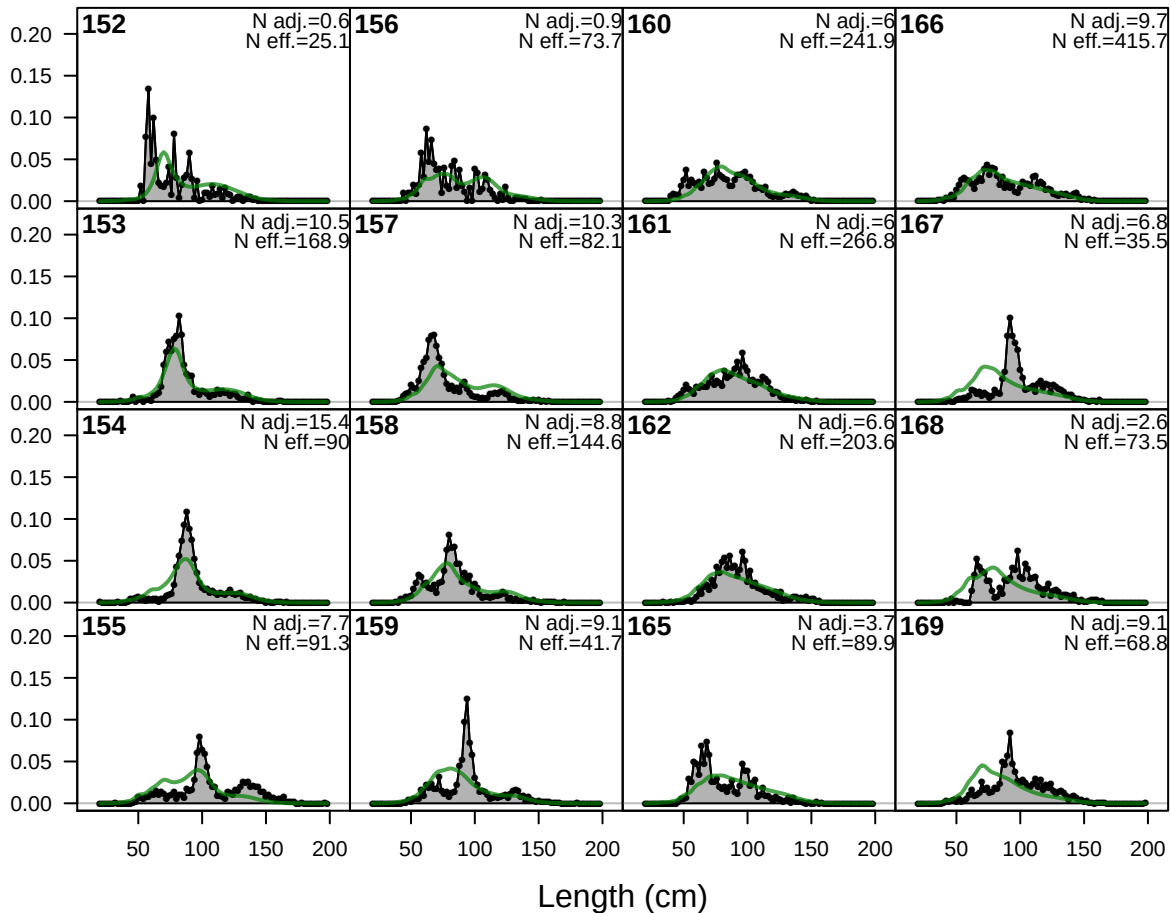




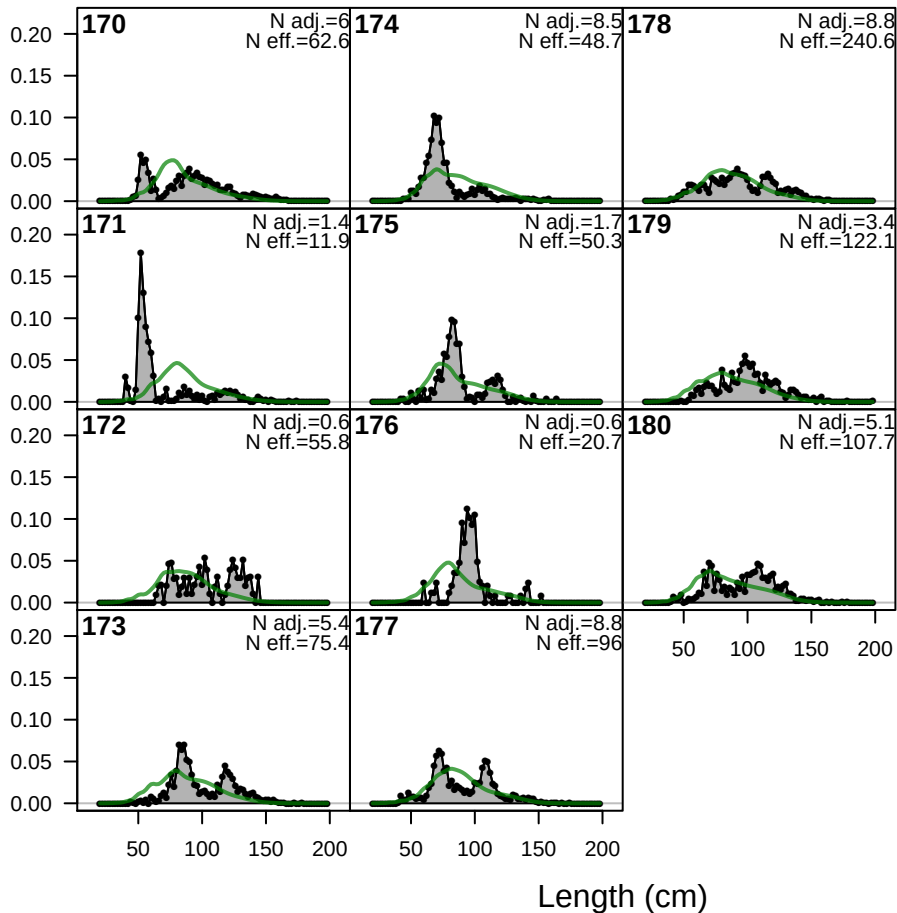


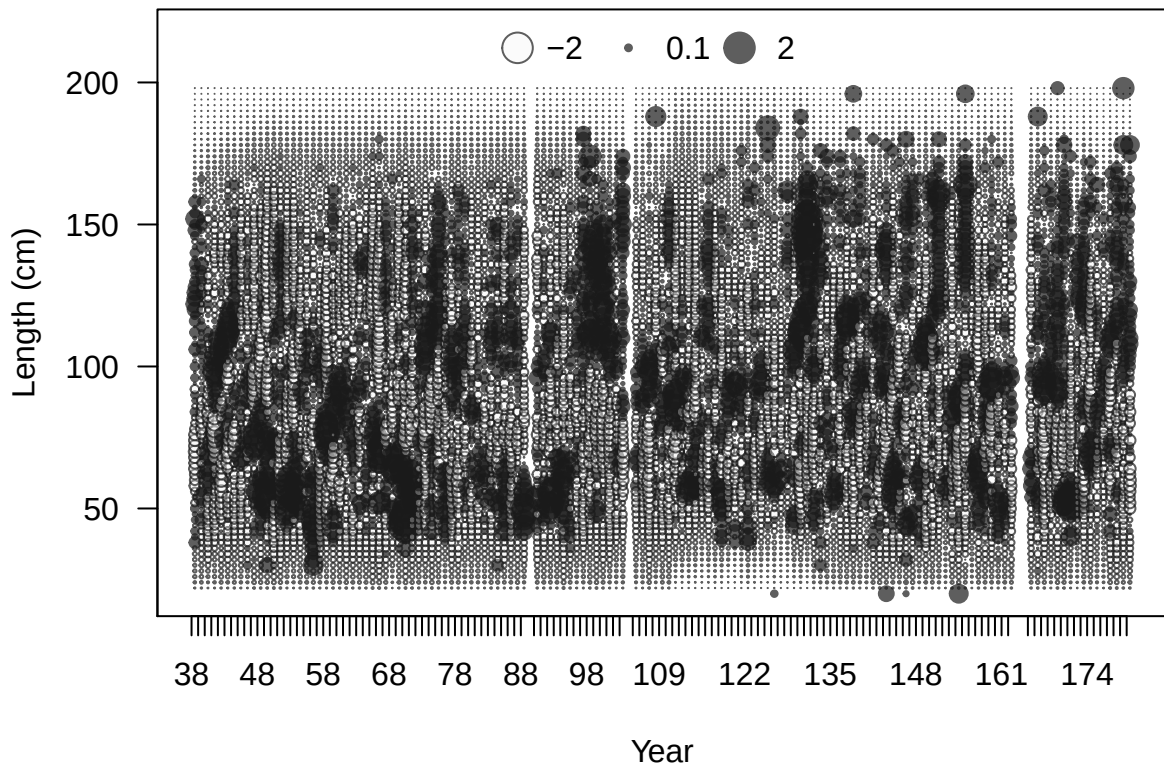




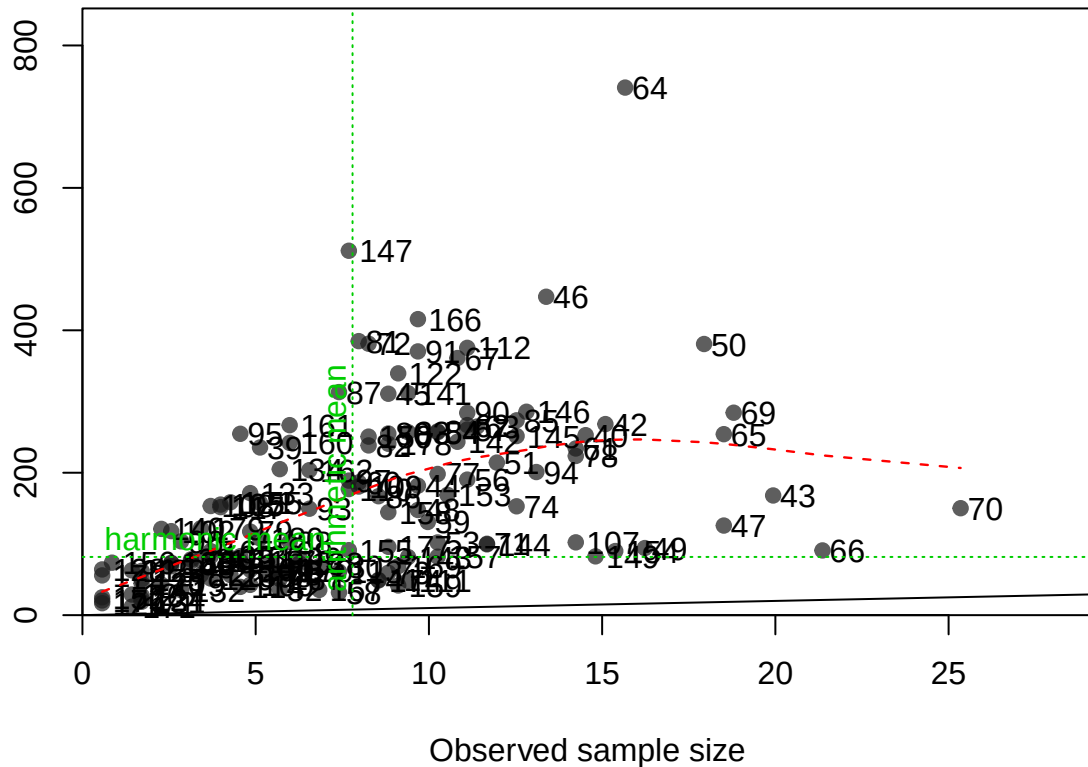


Proportion

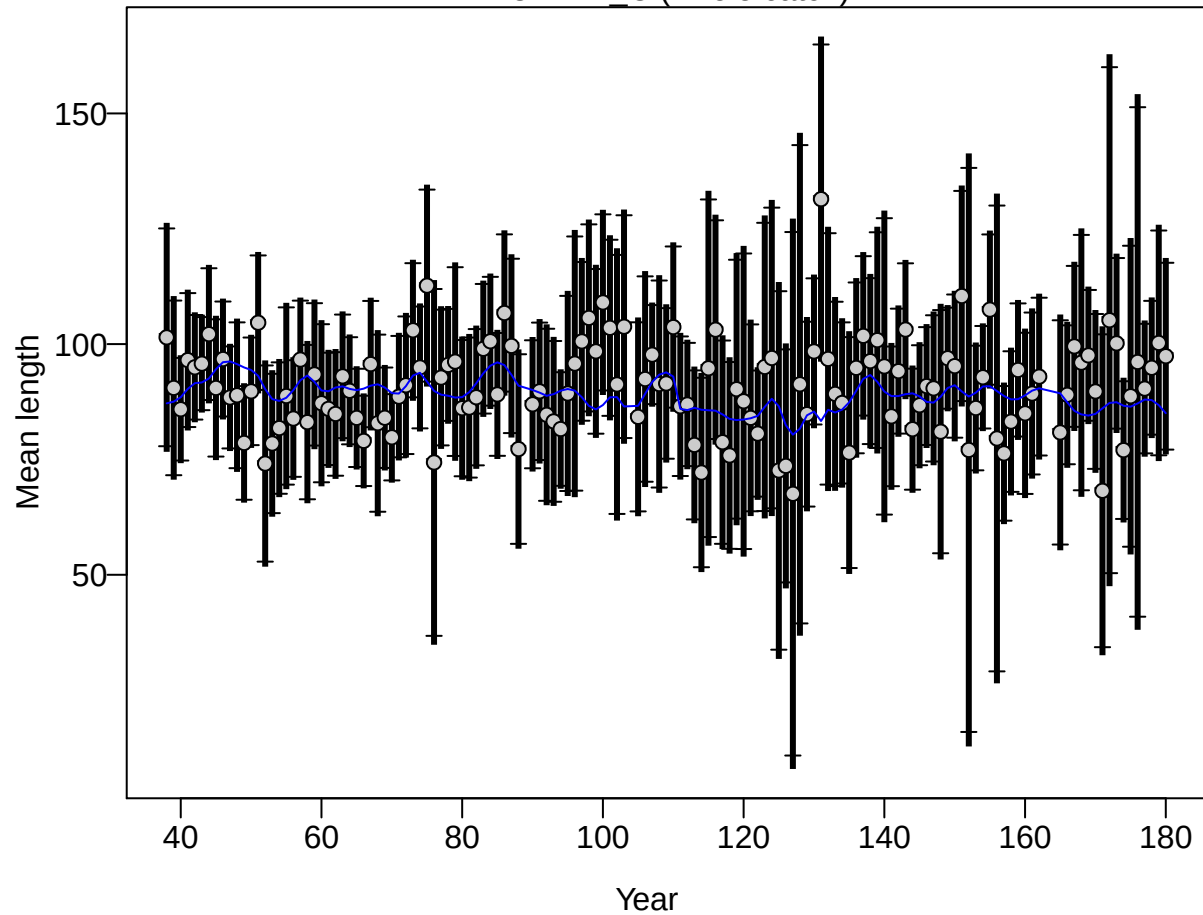


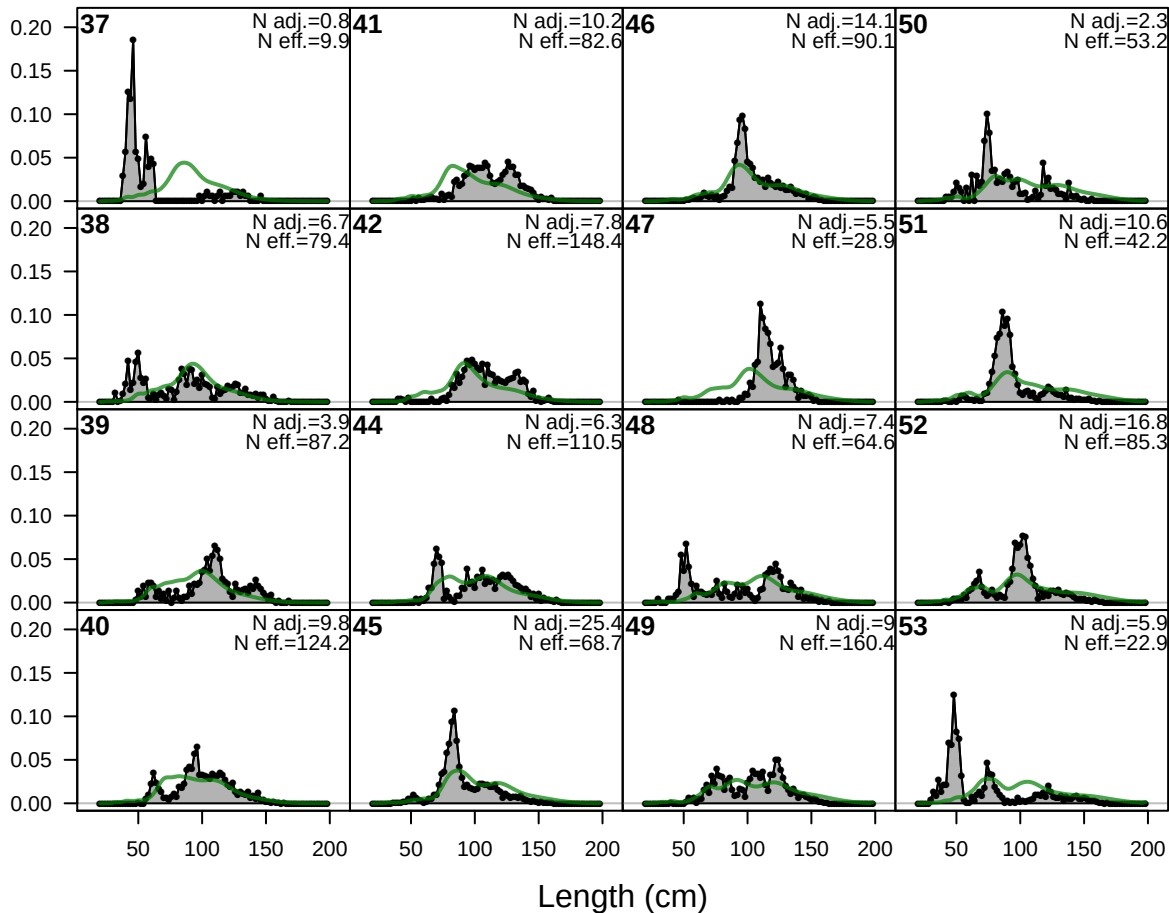


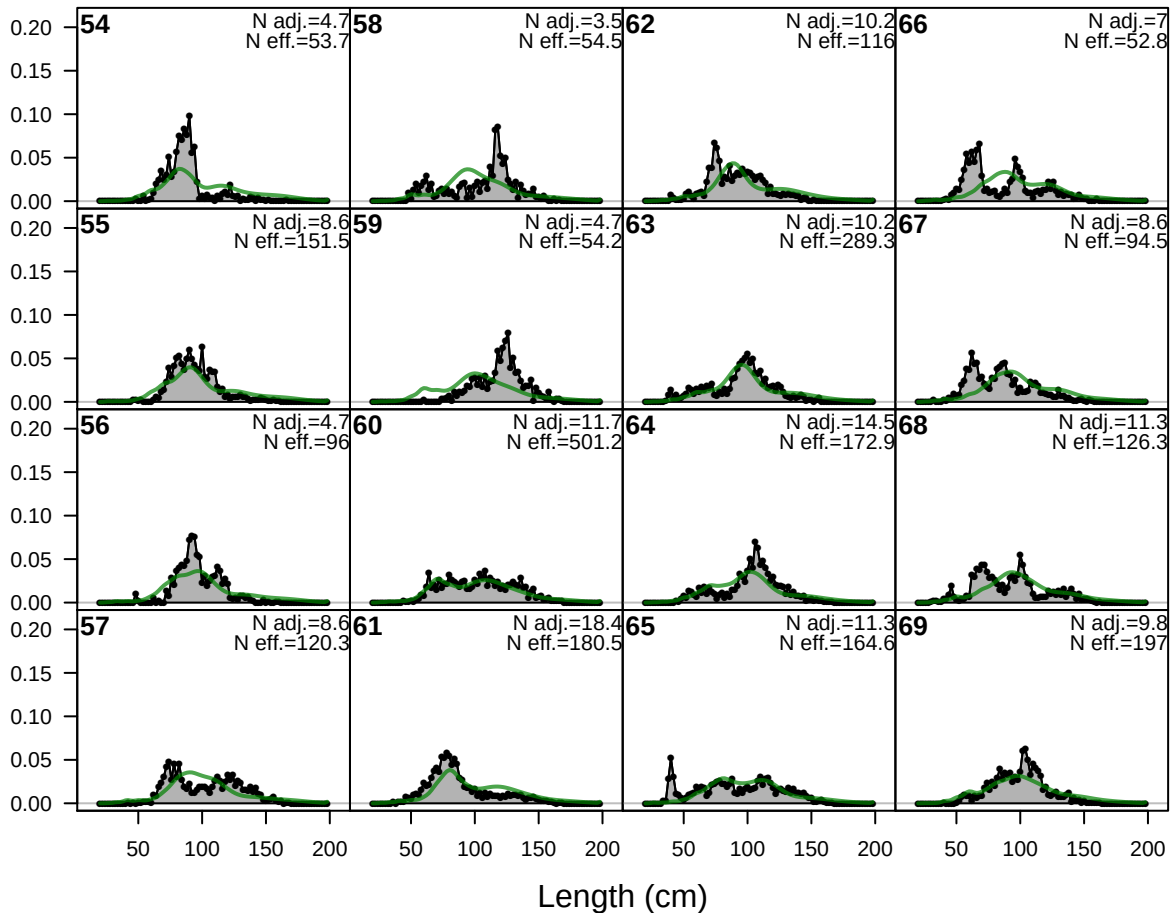
Effective sample size

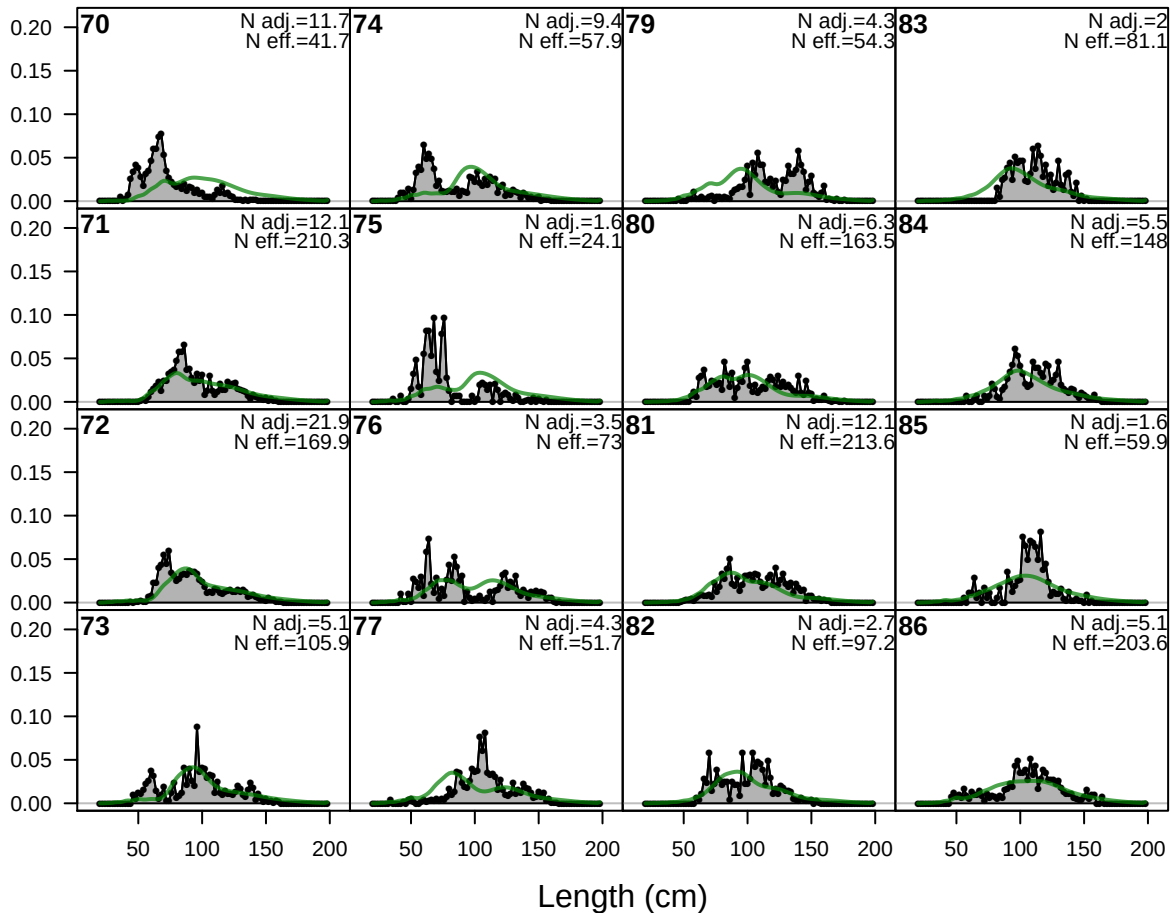


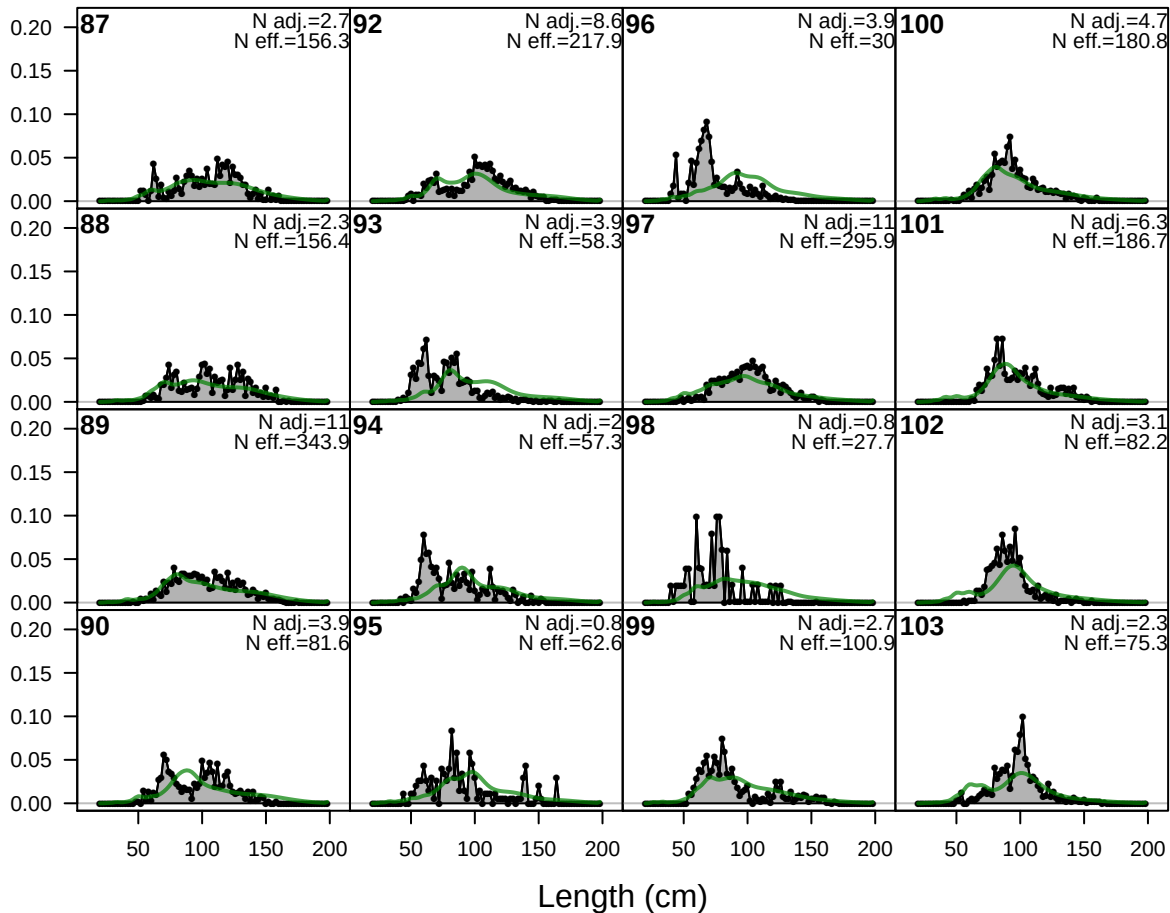
F18-DEL_C (whole catch)

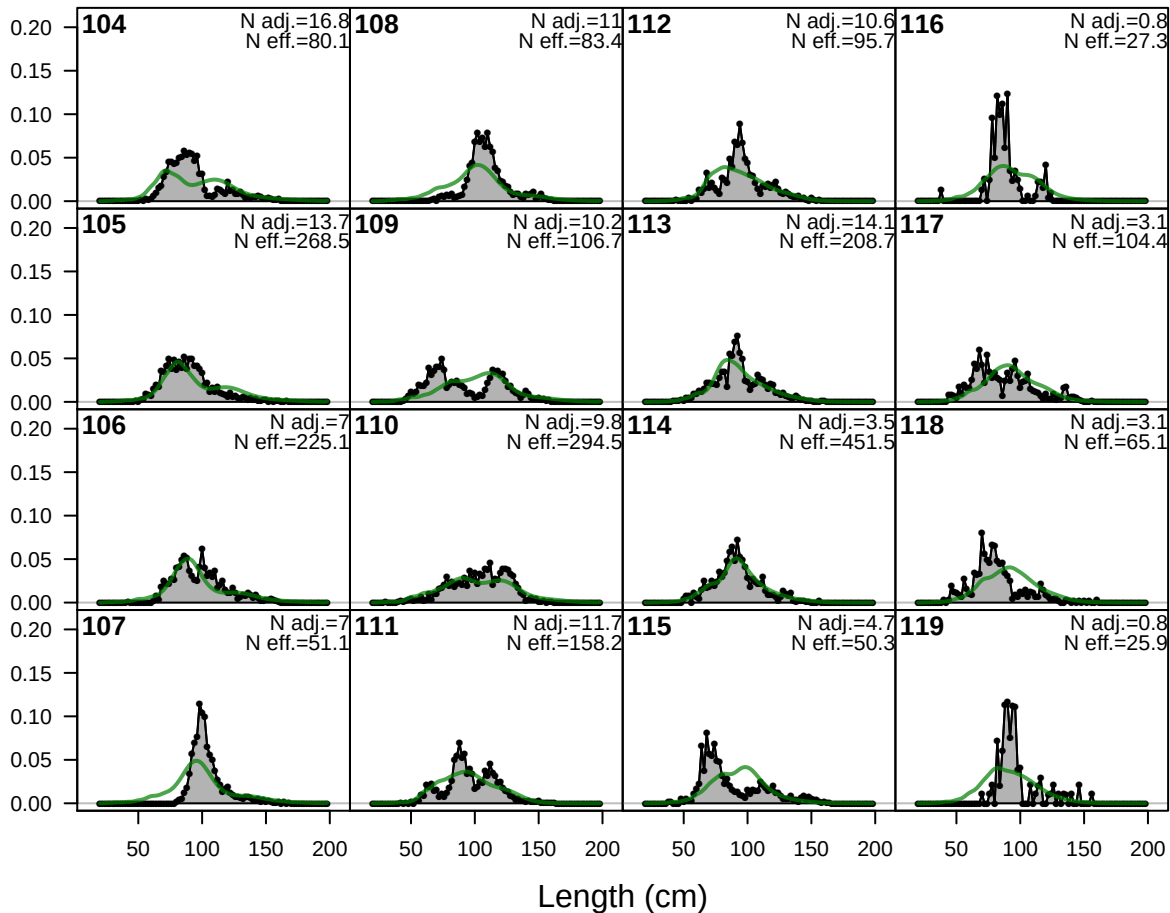


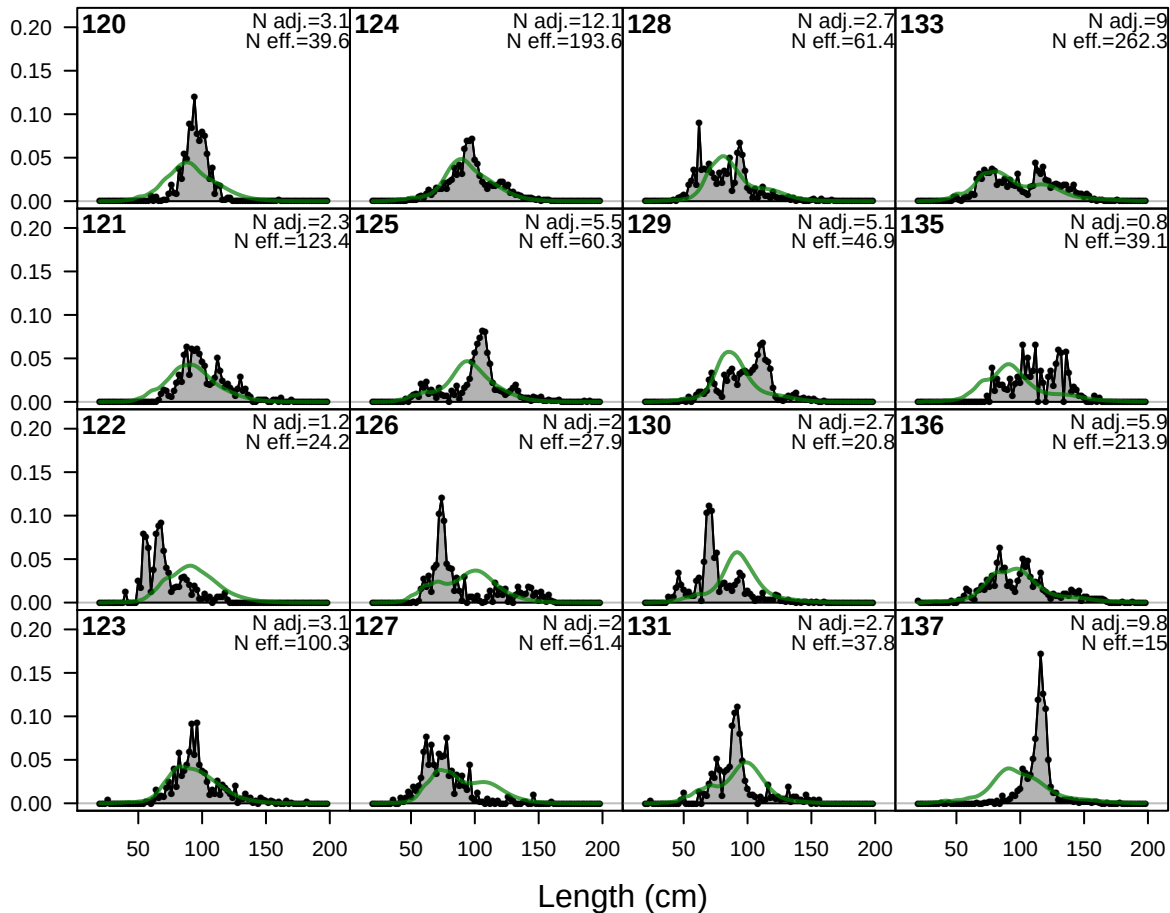


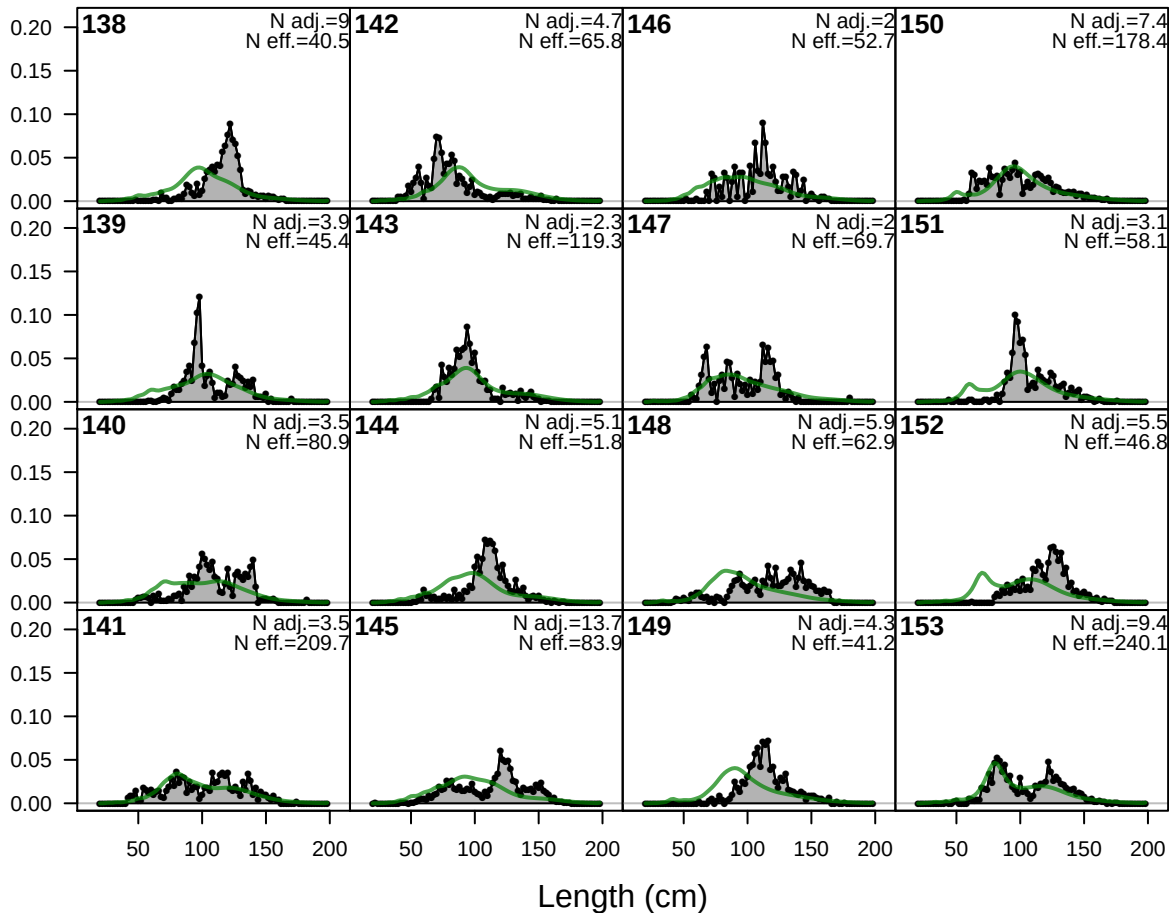


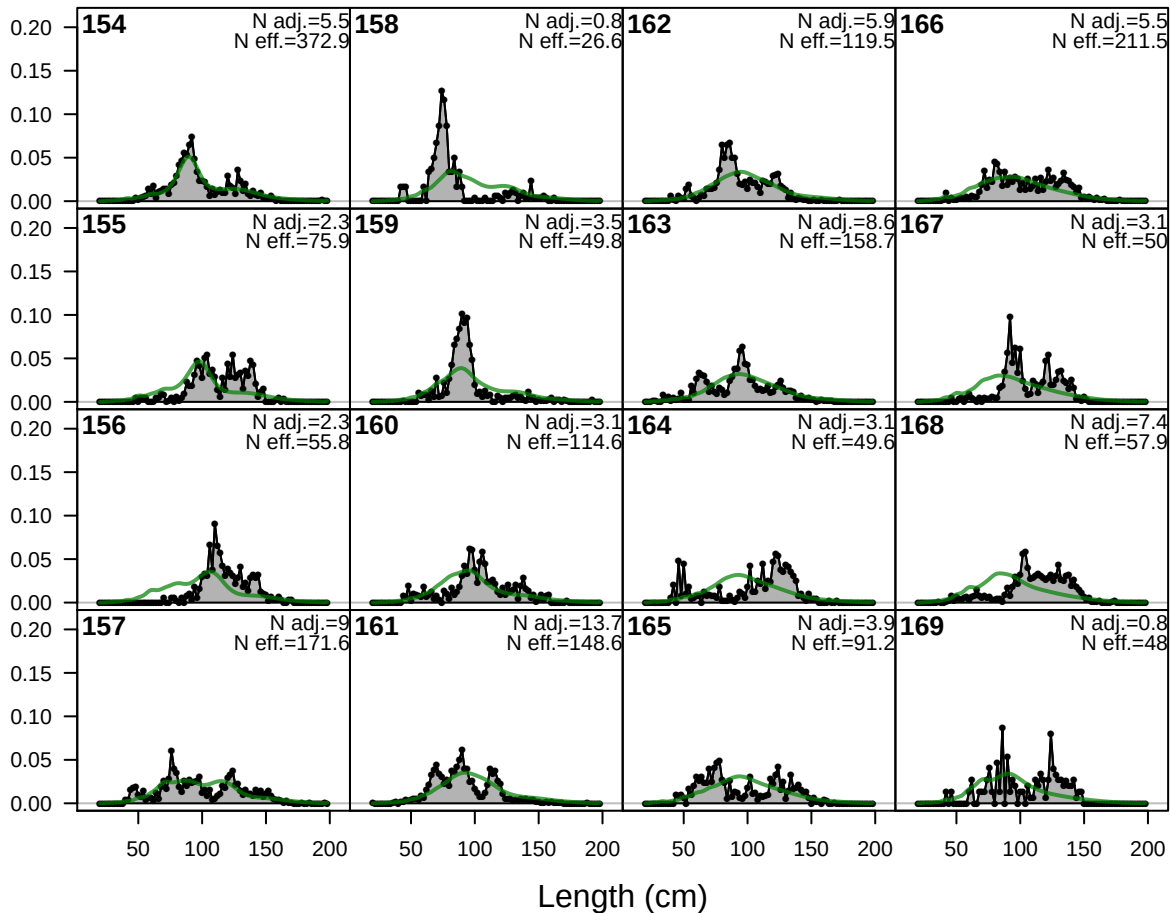




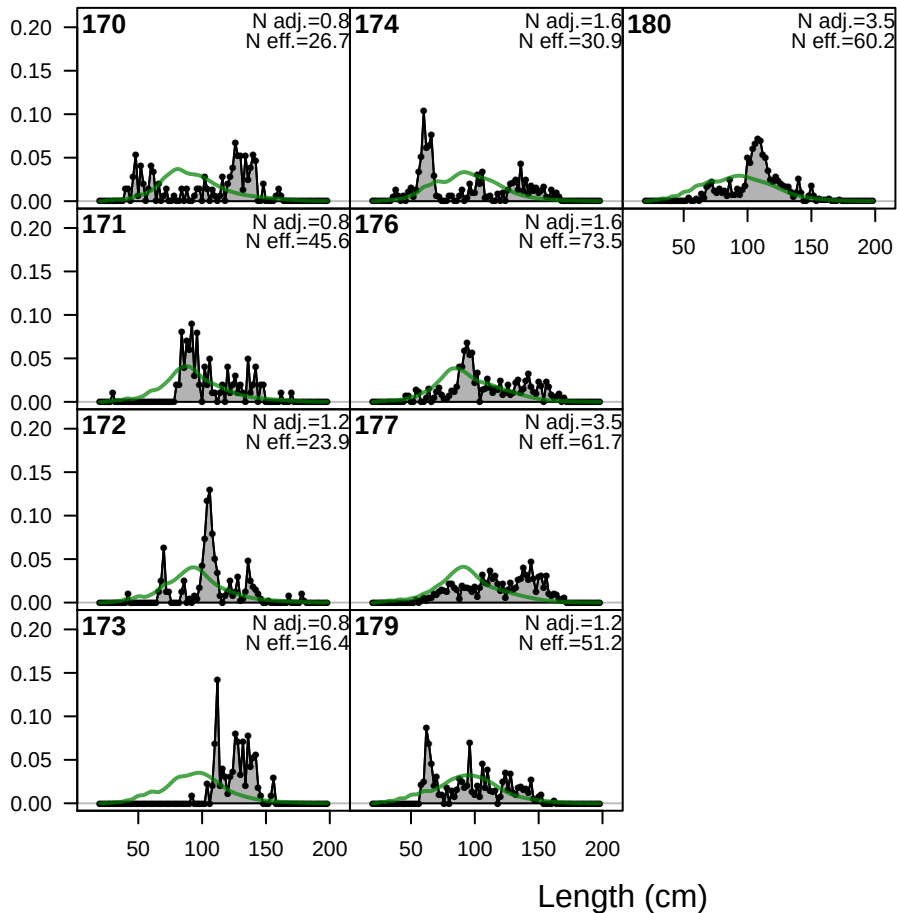


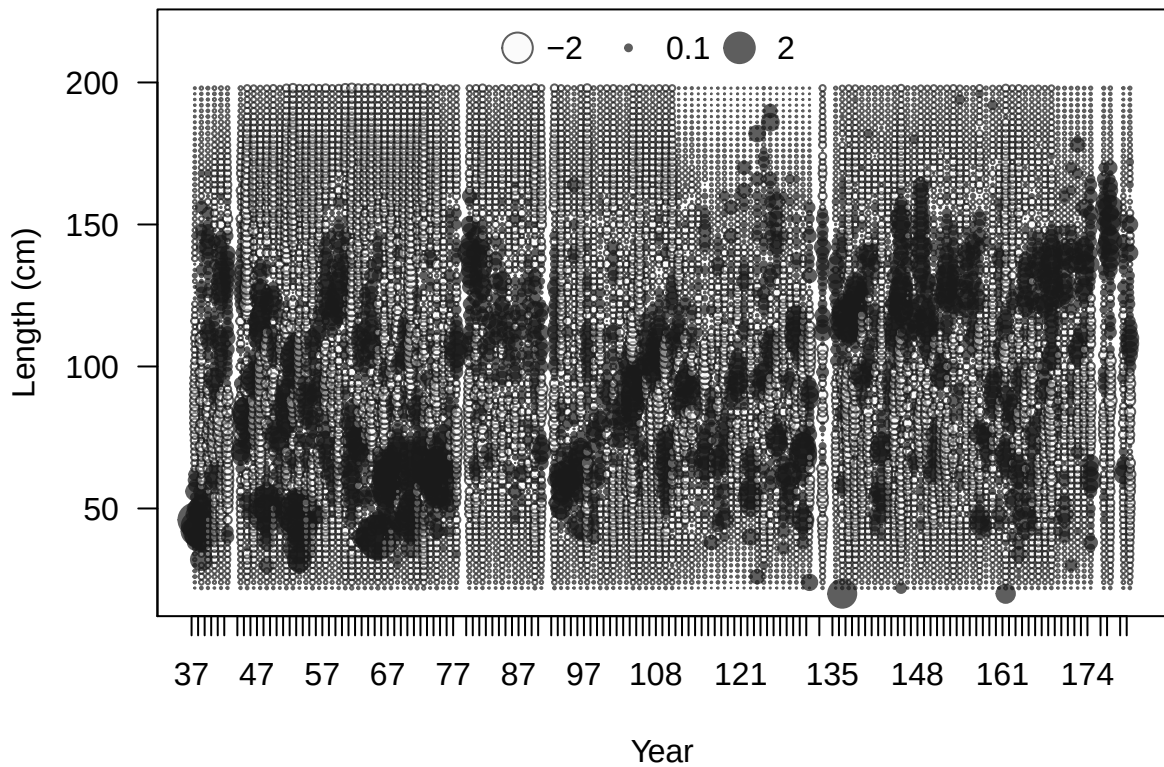




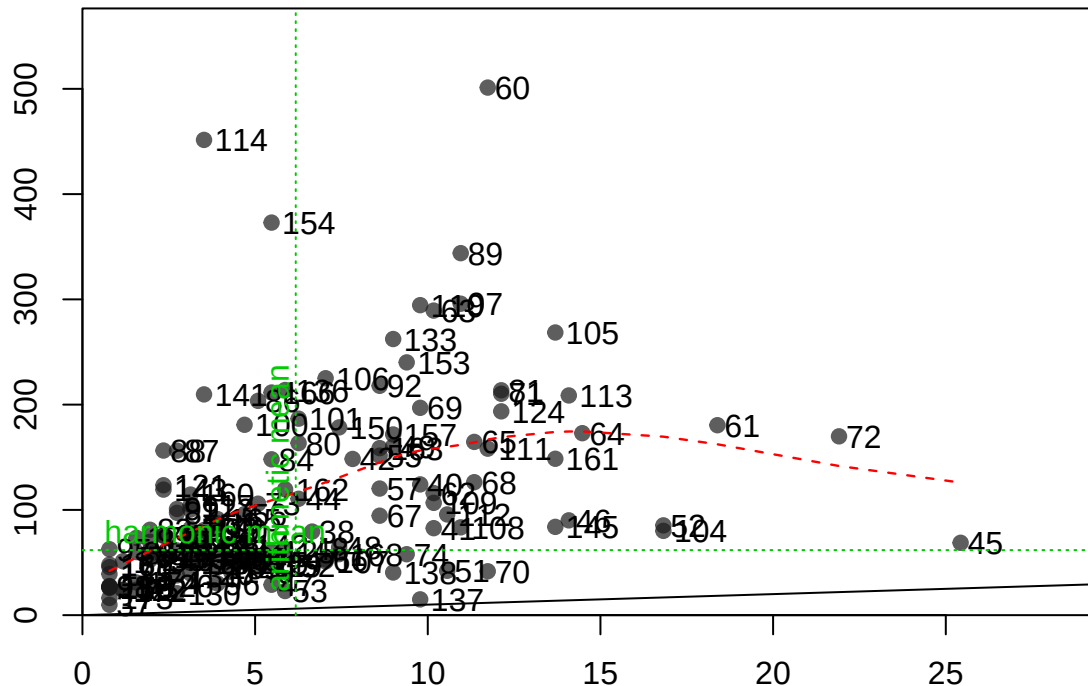


Proportion



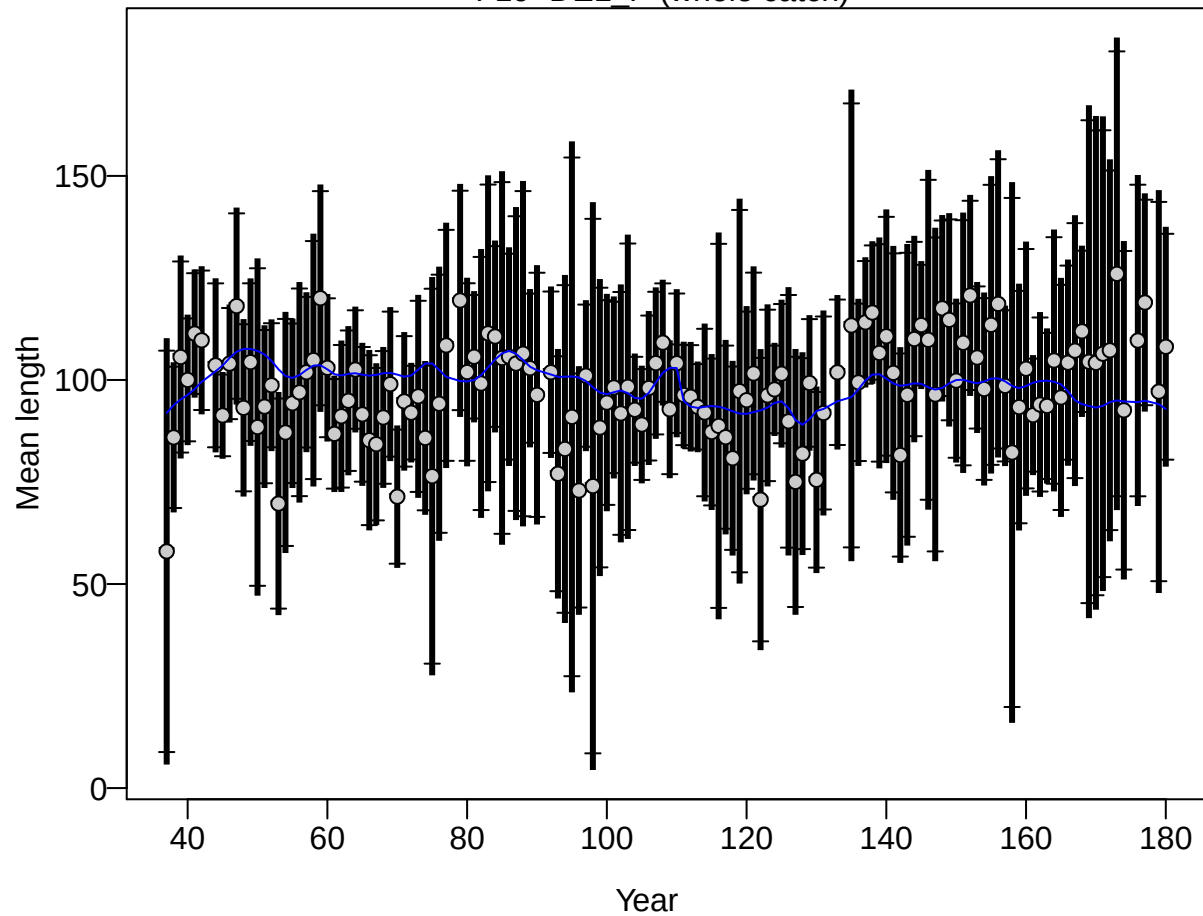


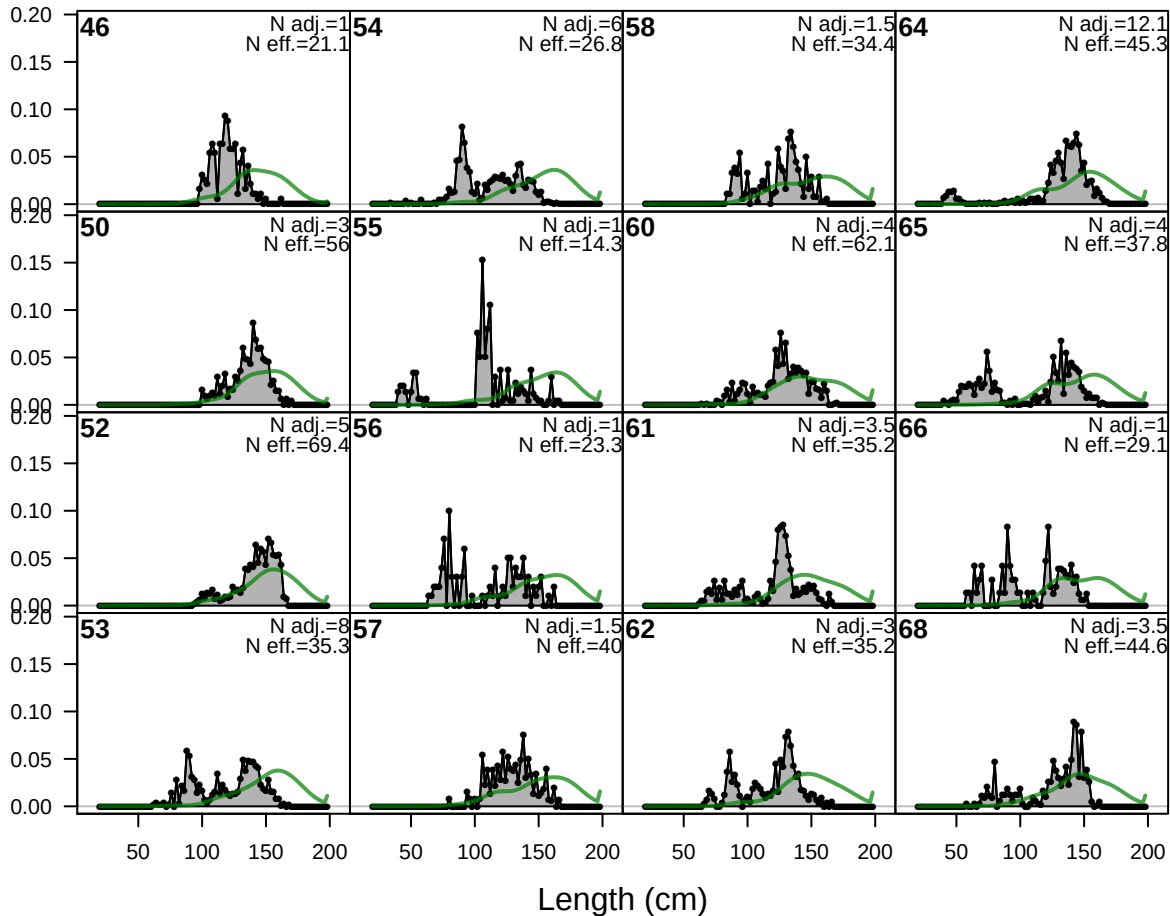
Effective sample size

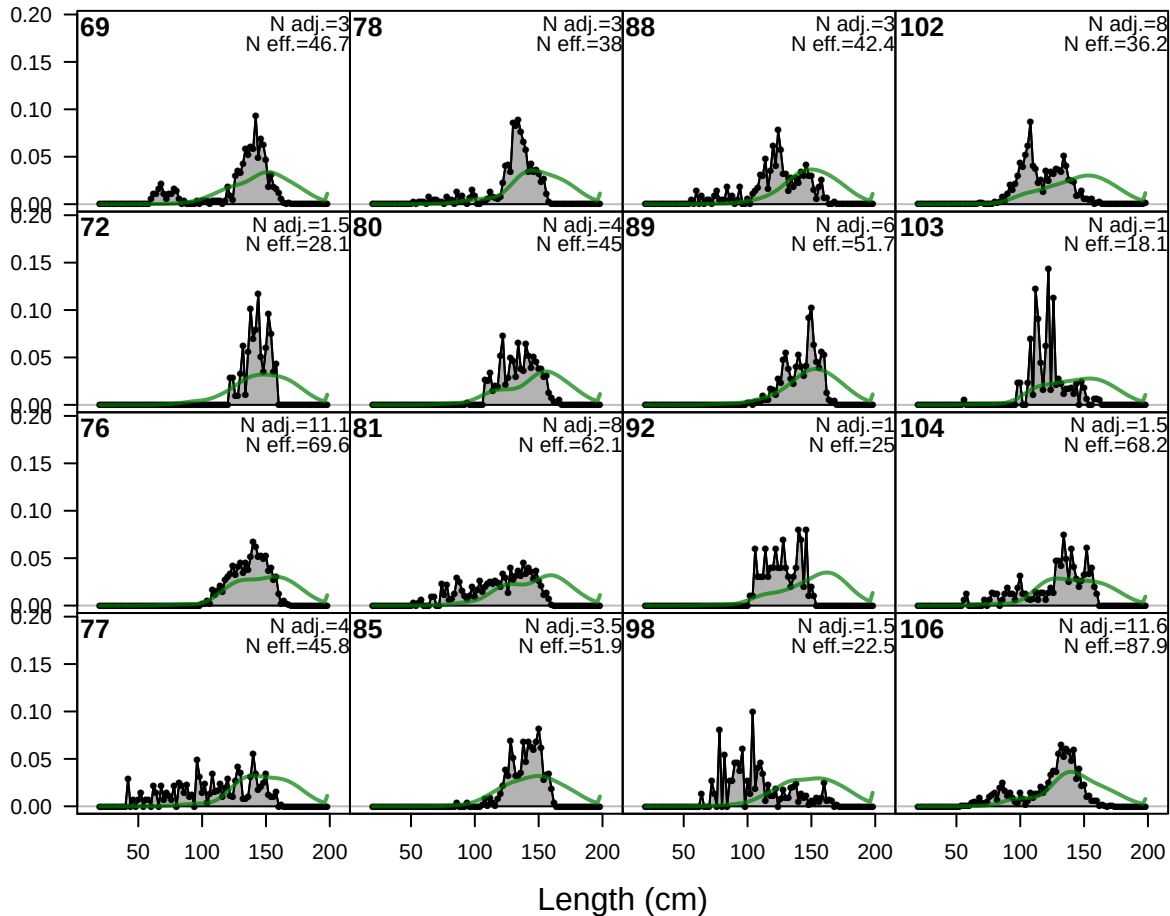


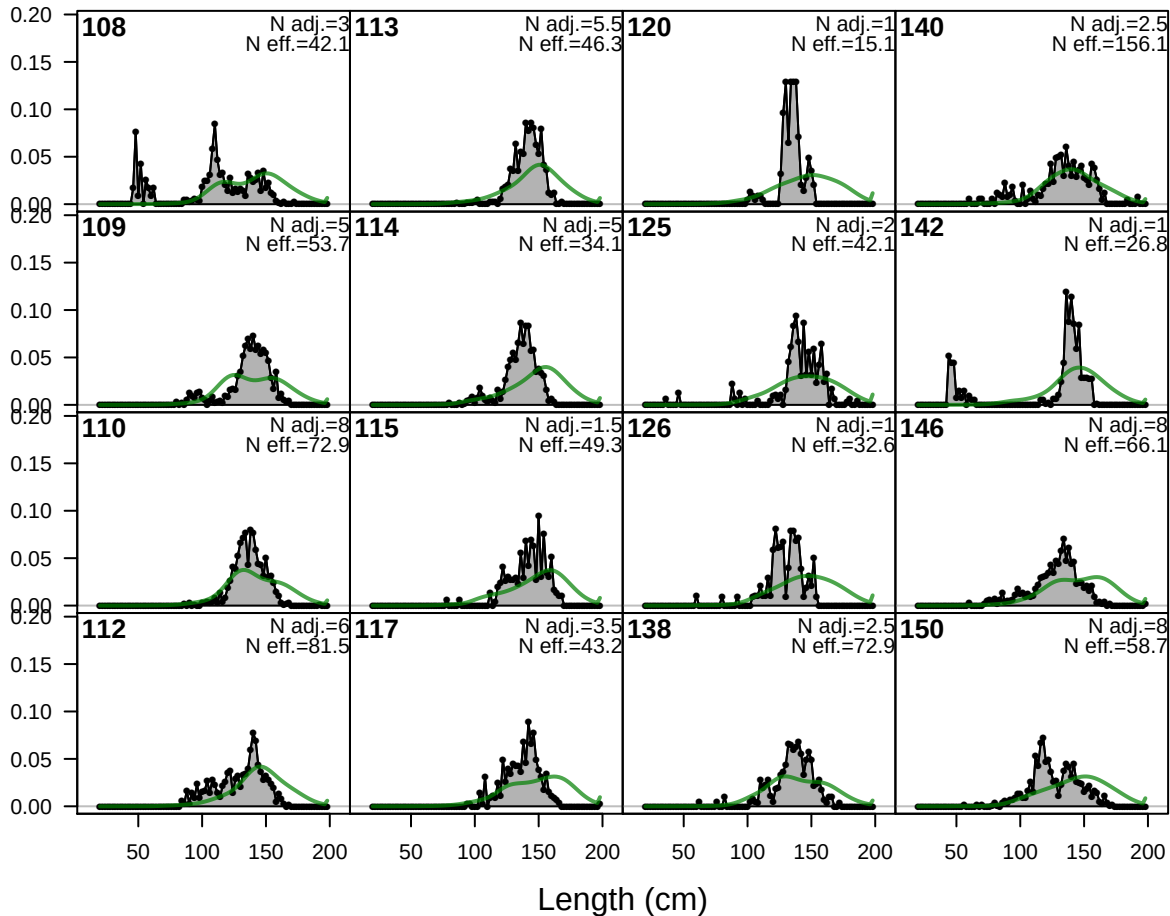
Observed sample size

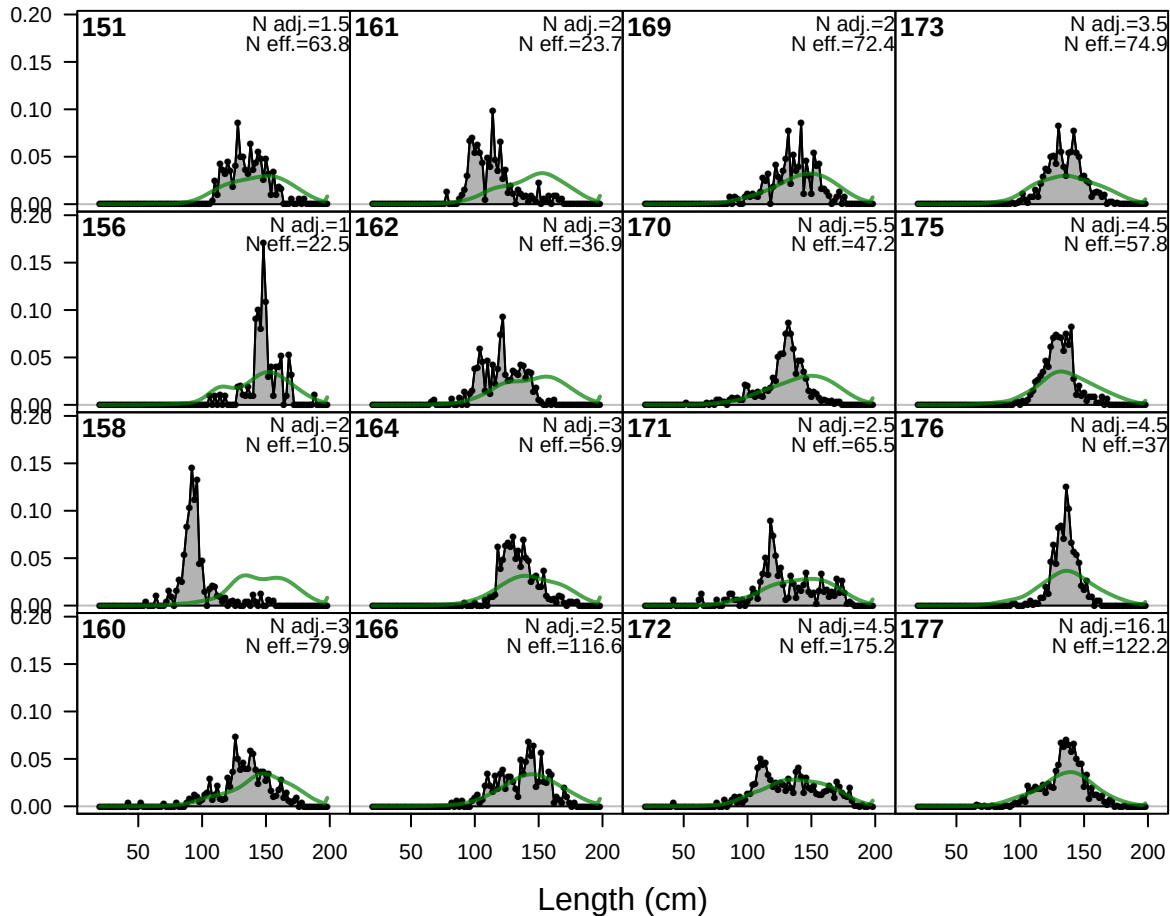
F19-DEL P (whole catch)



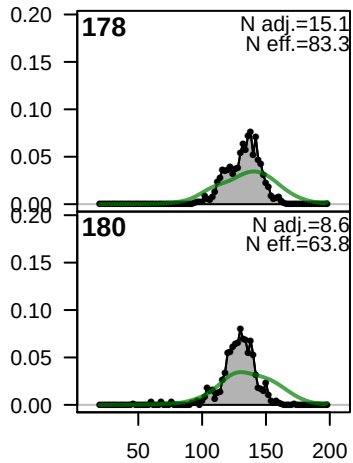




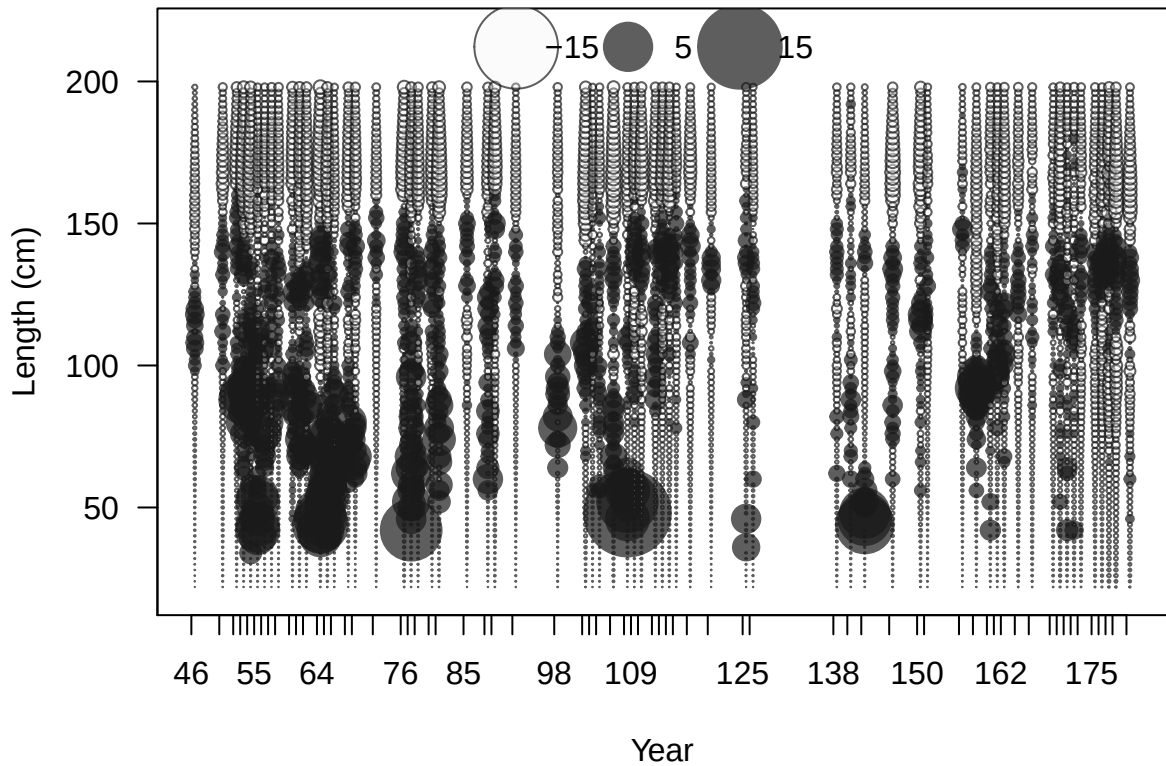


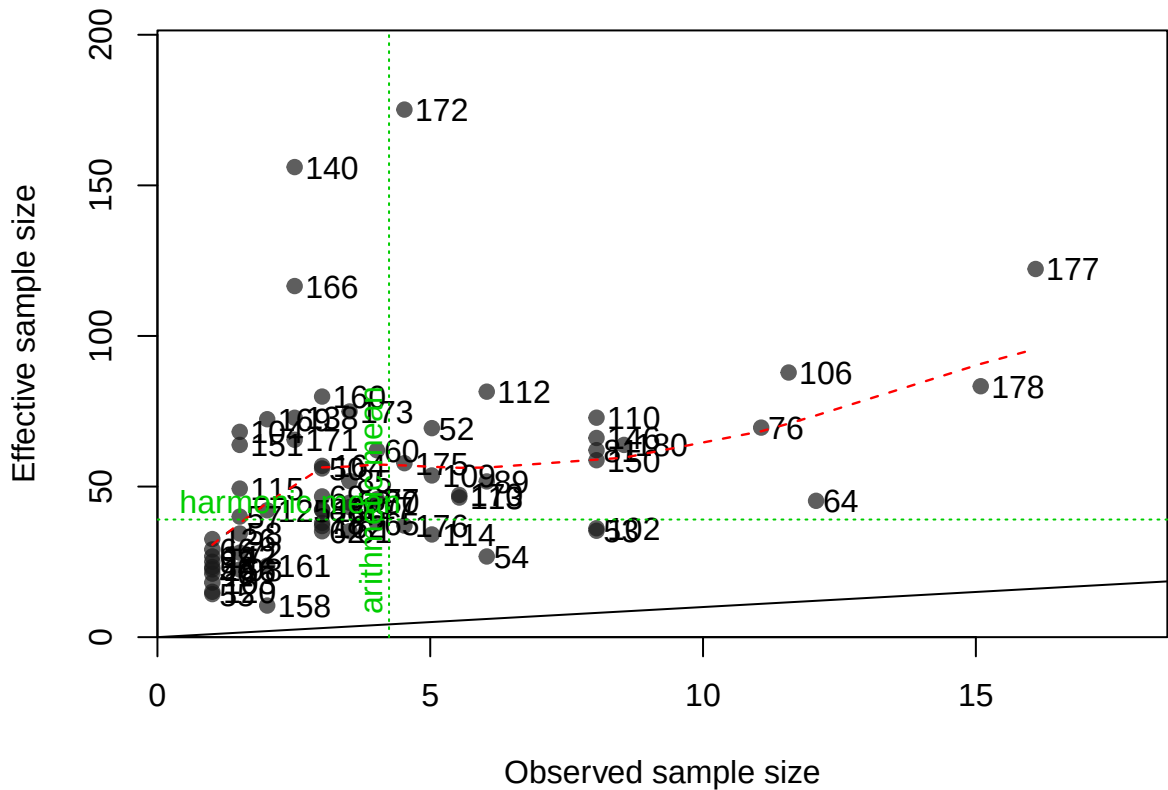


Proportion

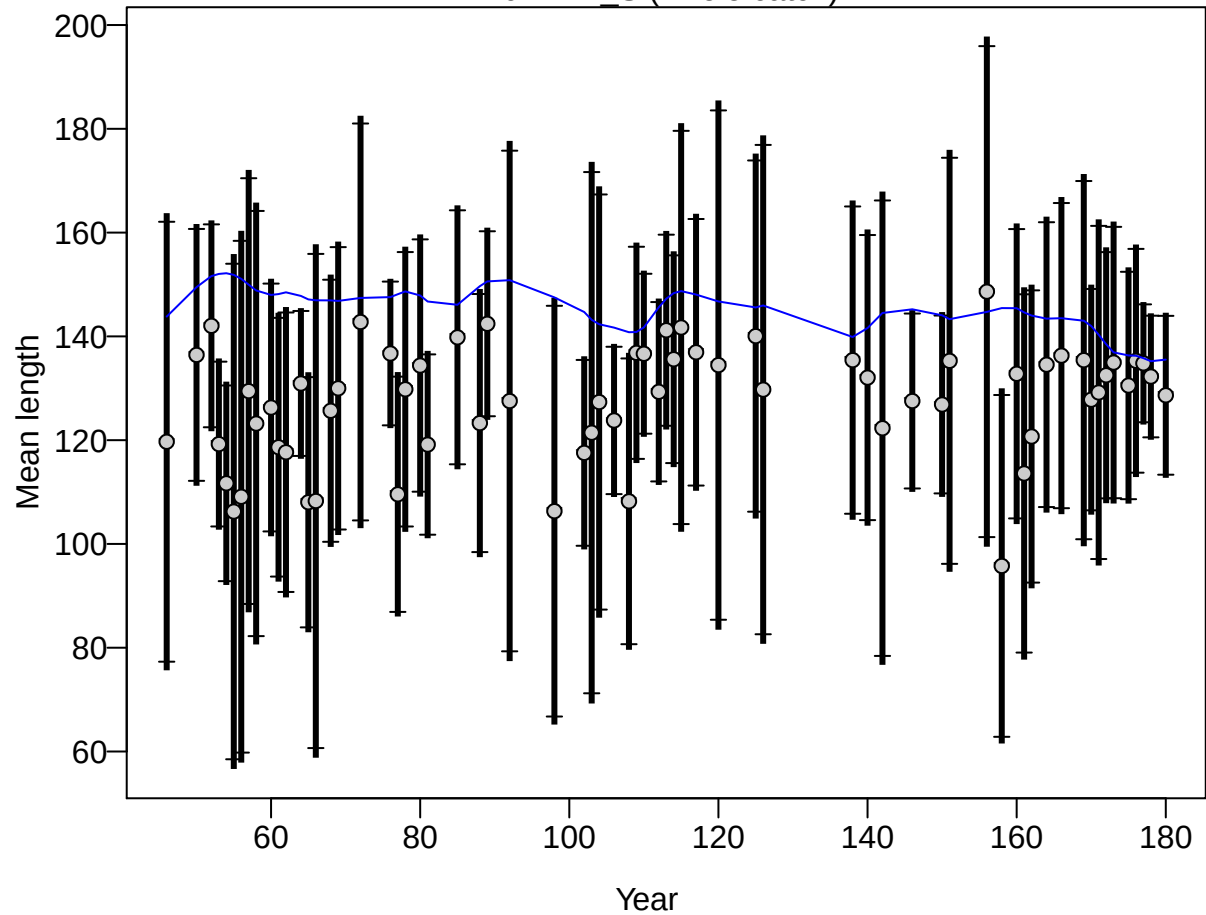


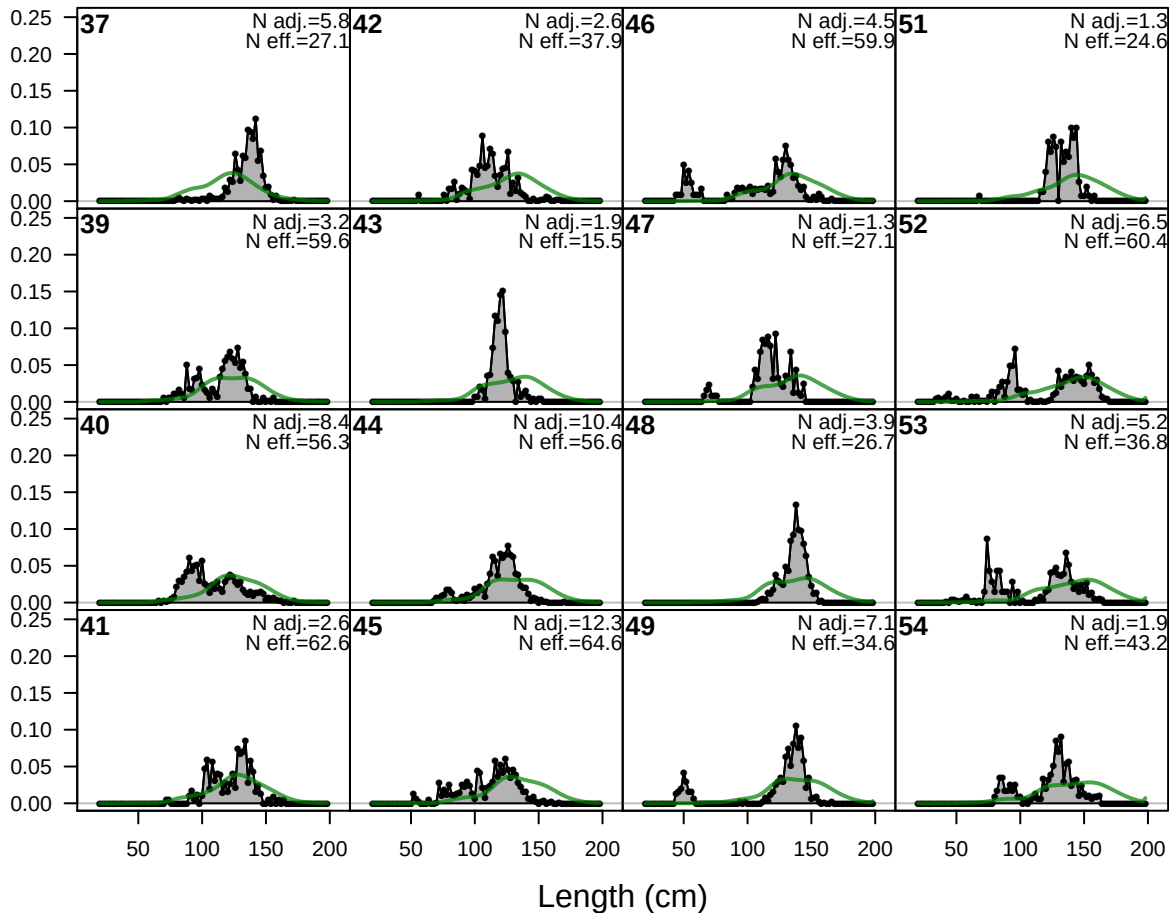
Length (cm)

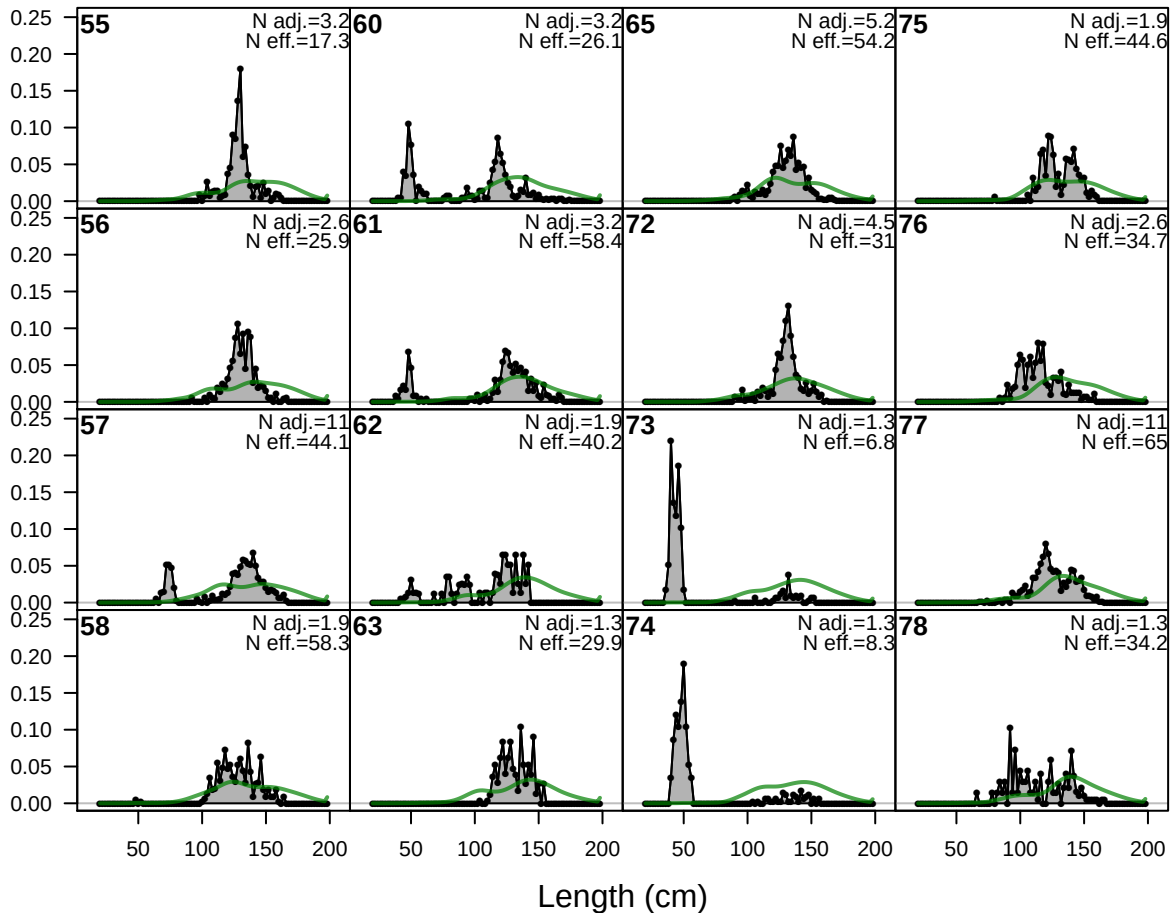


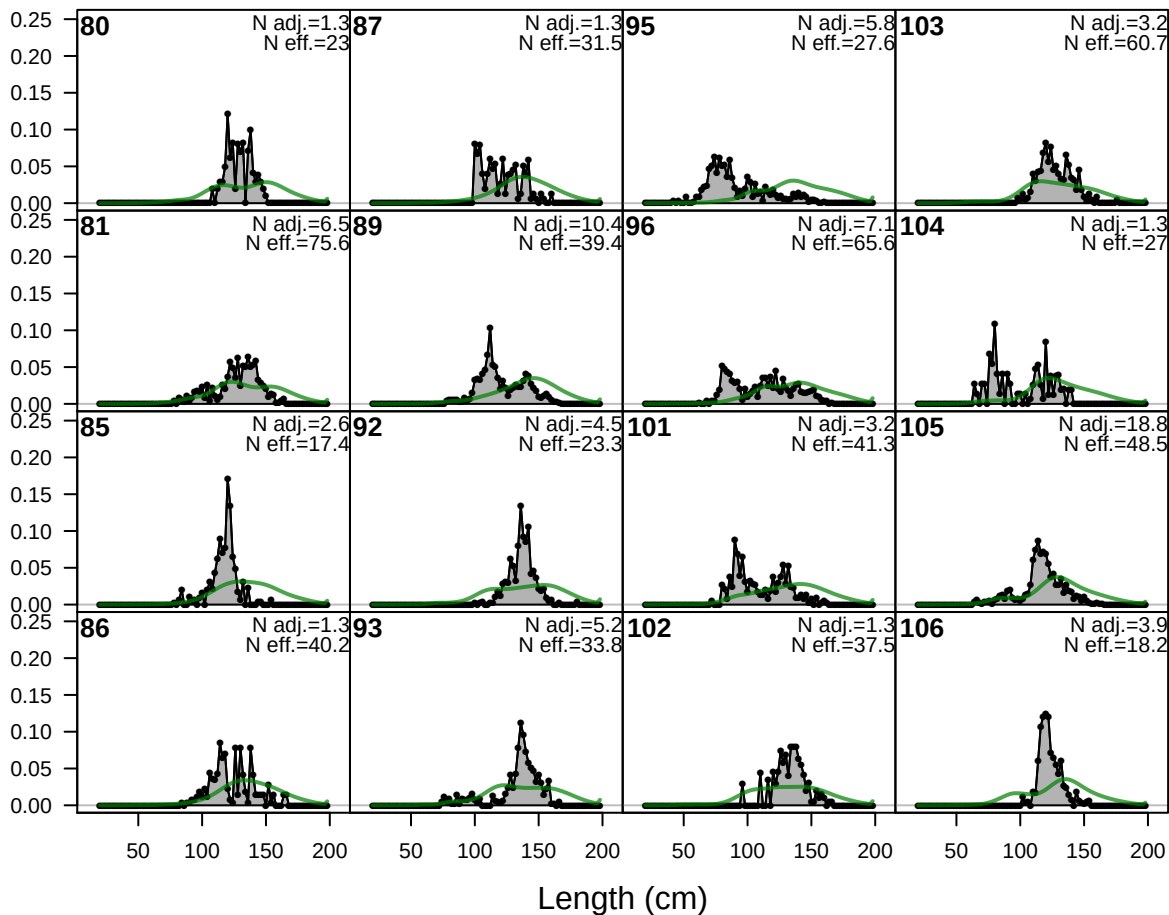


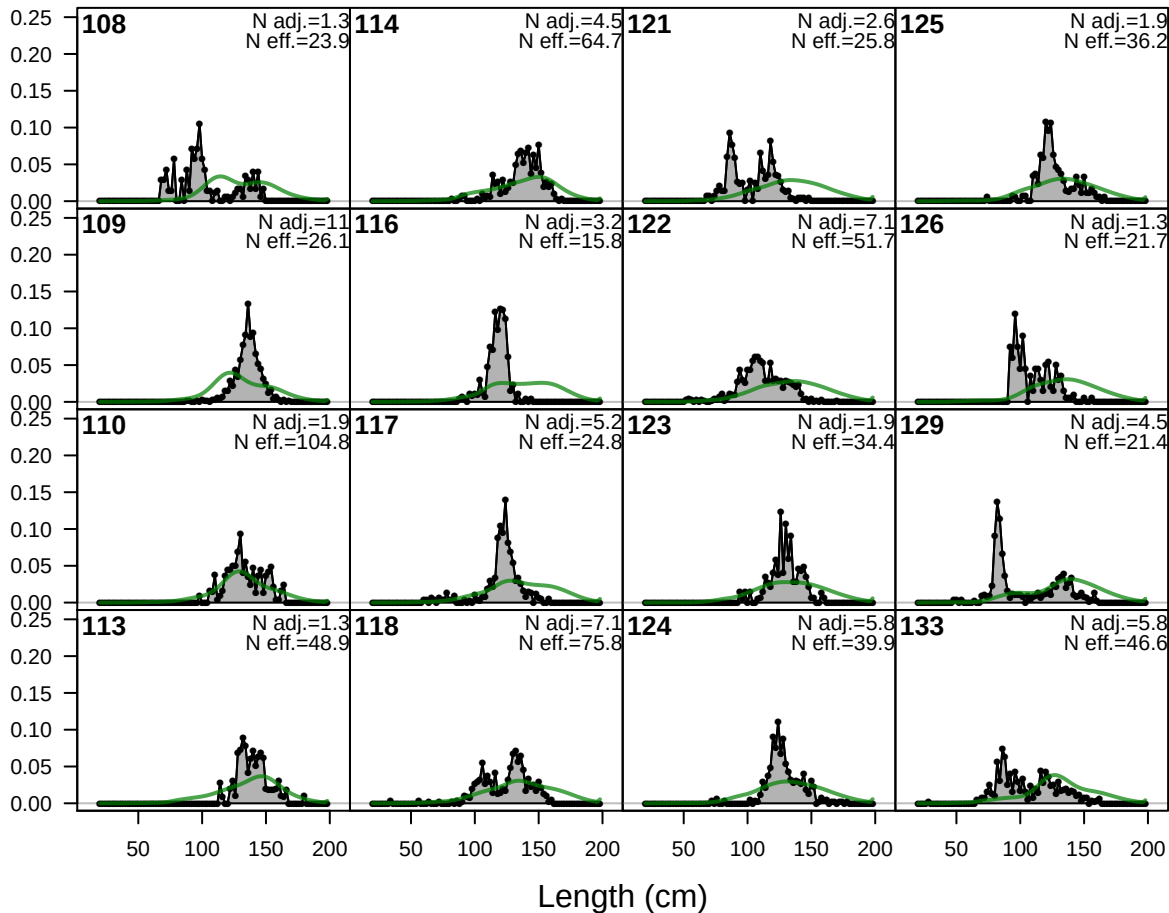
F20-DEL_S (whole catch)

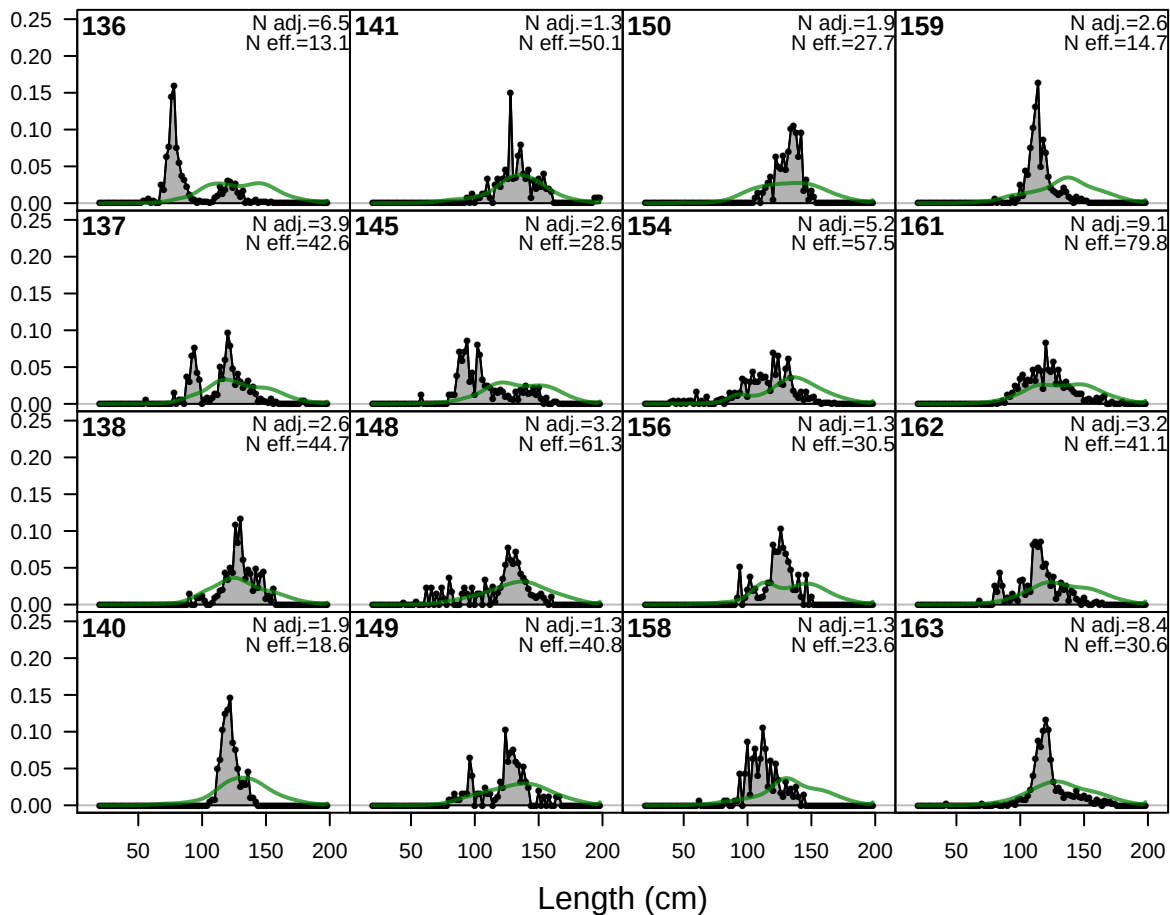


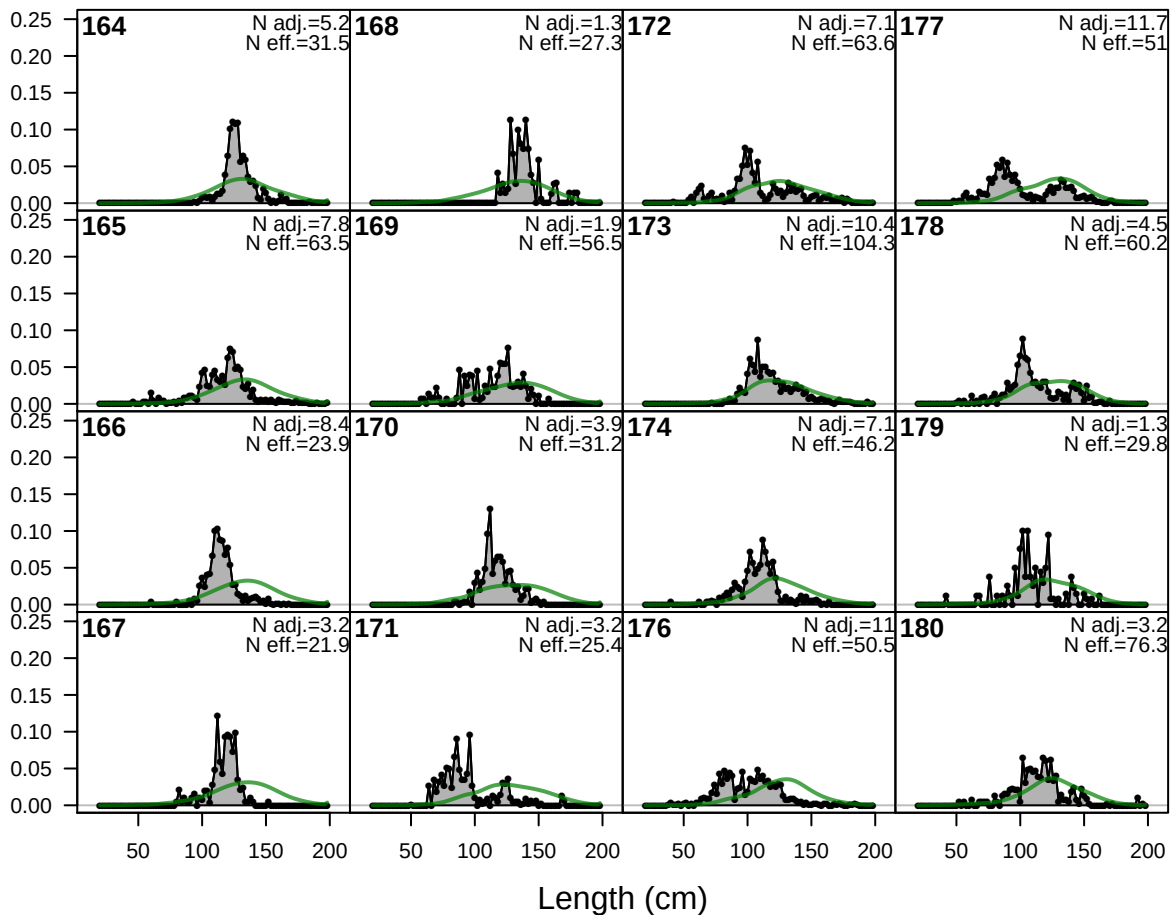


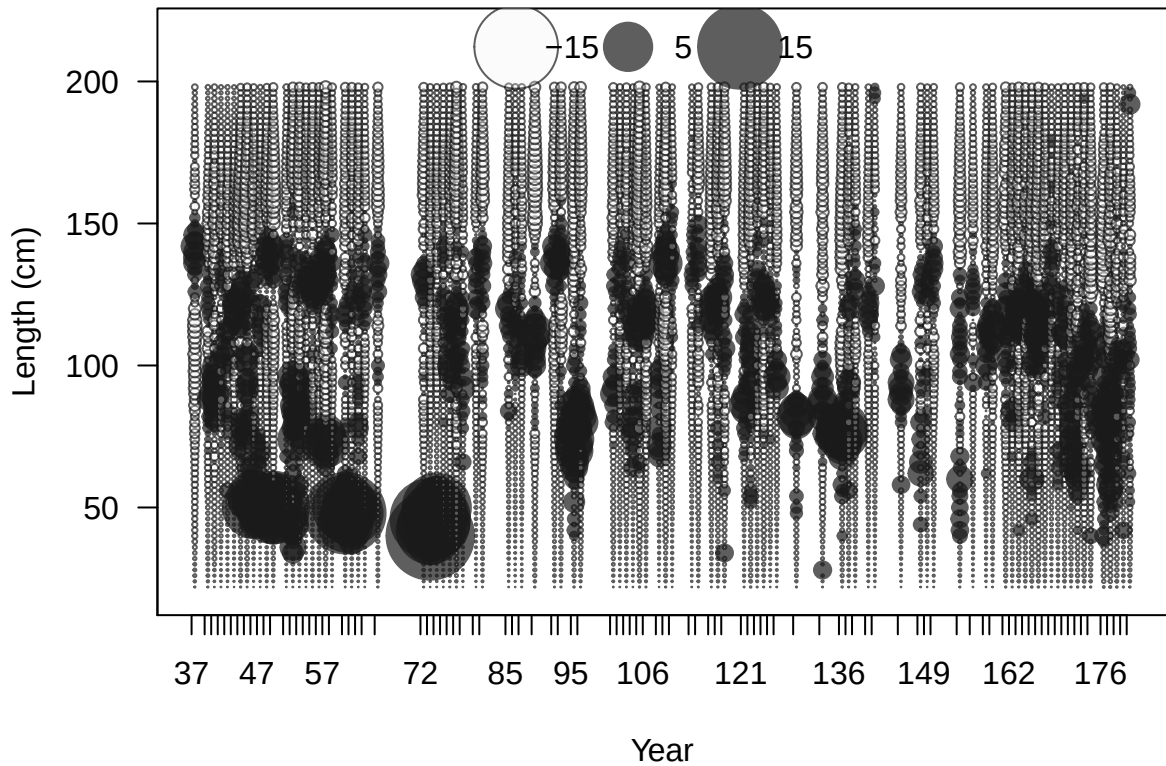




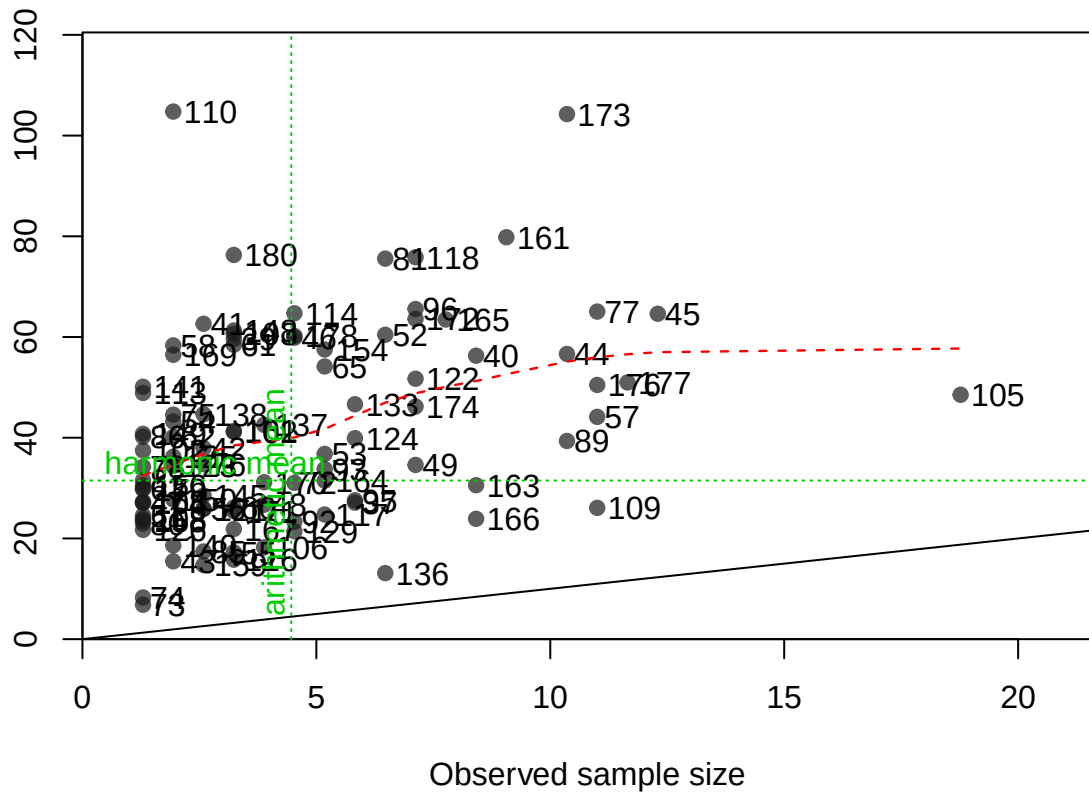




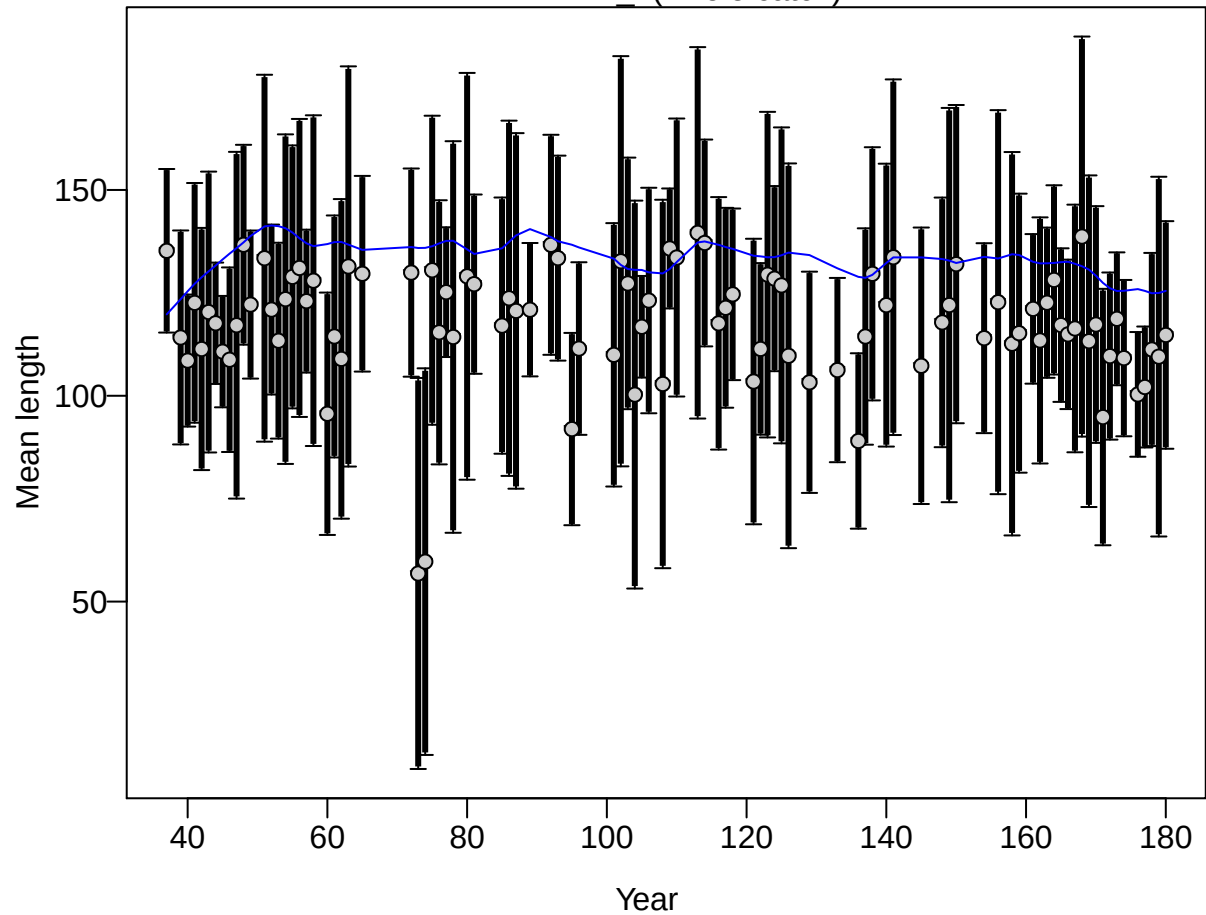


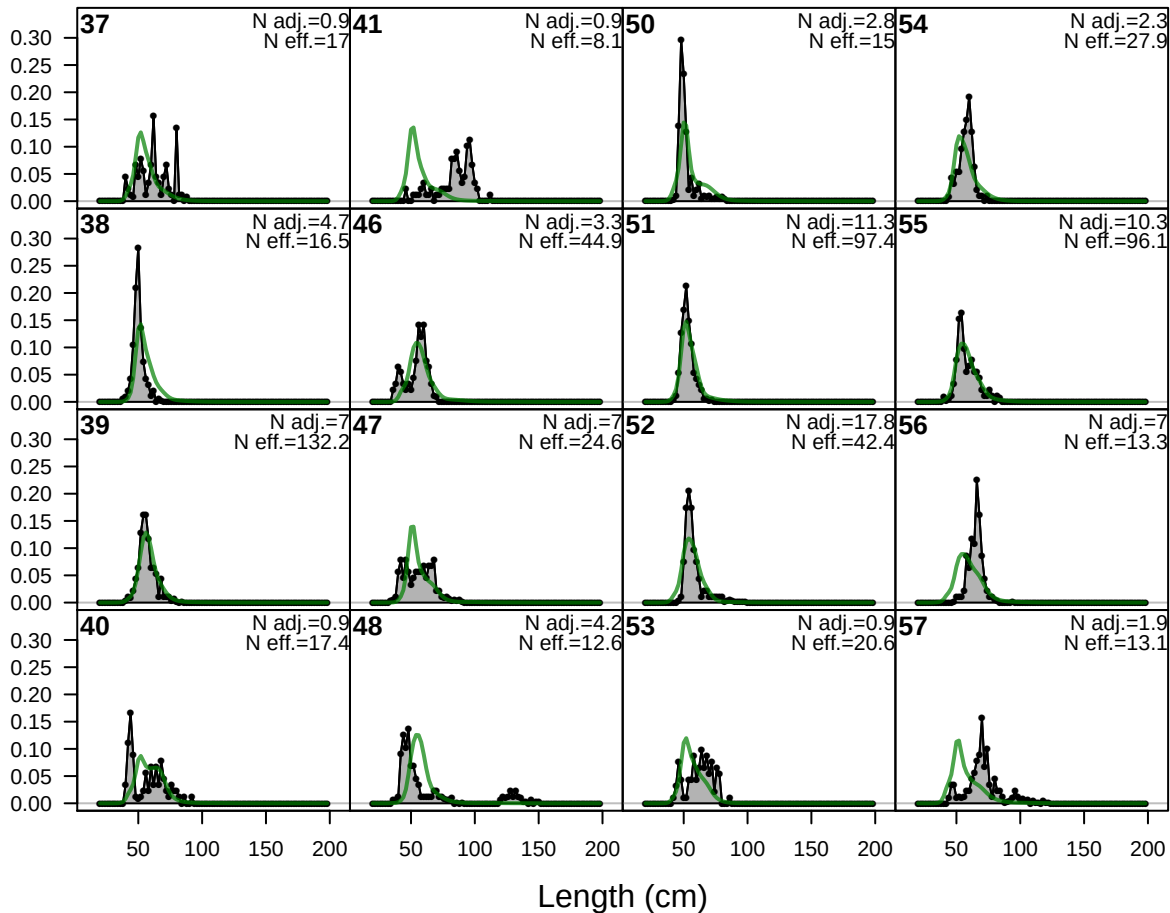


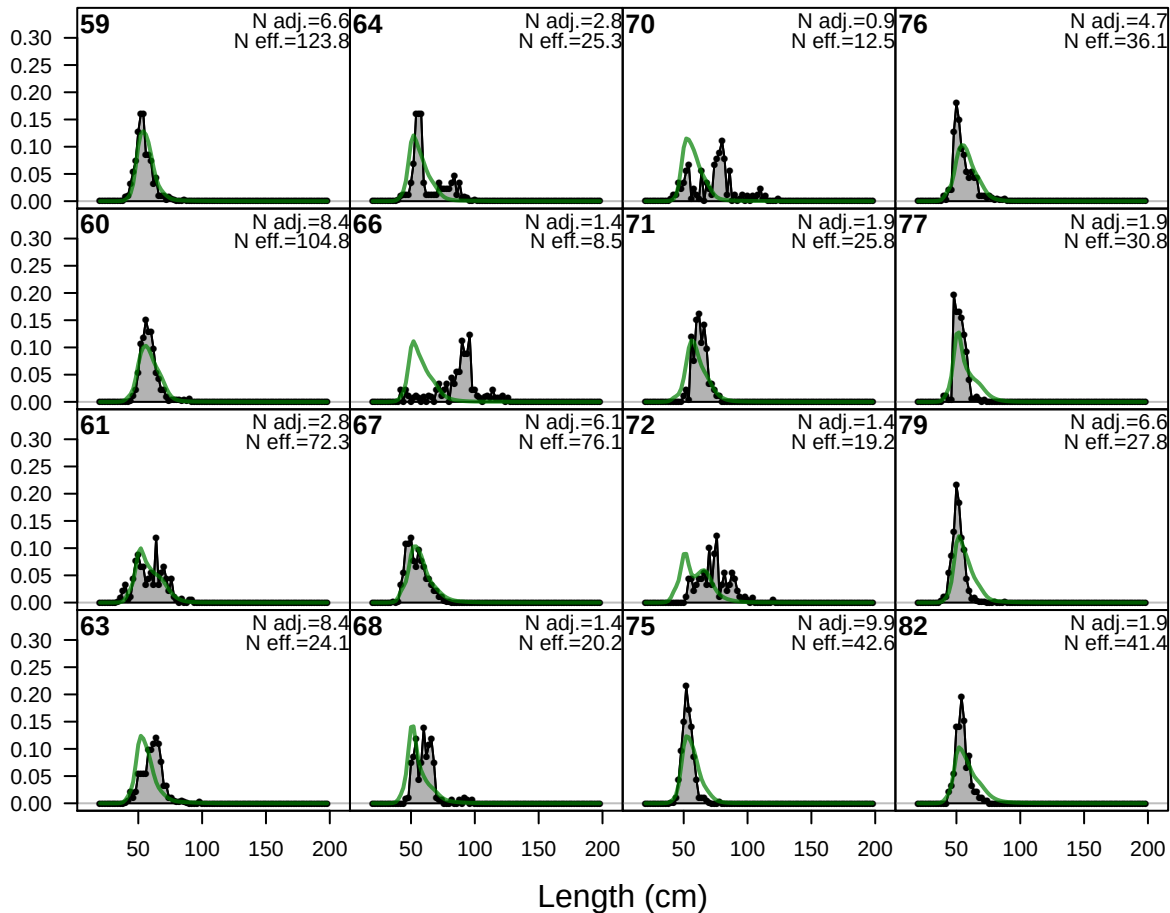
Effective sample size

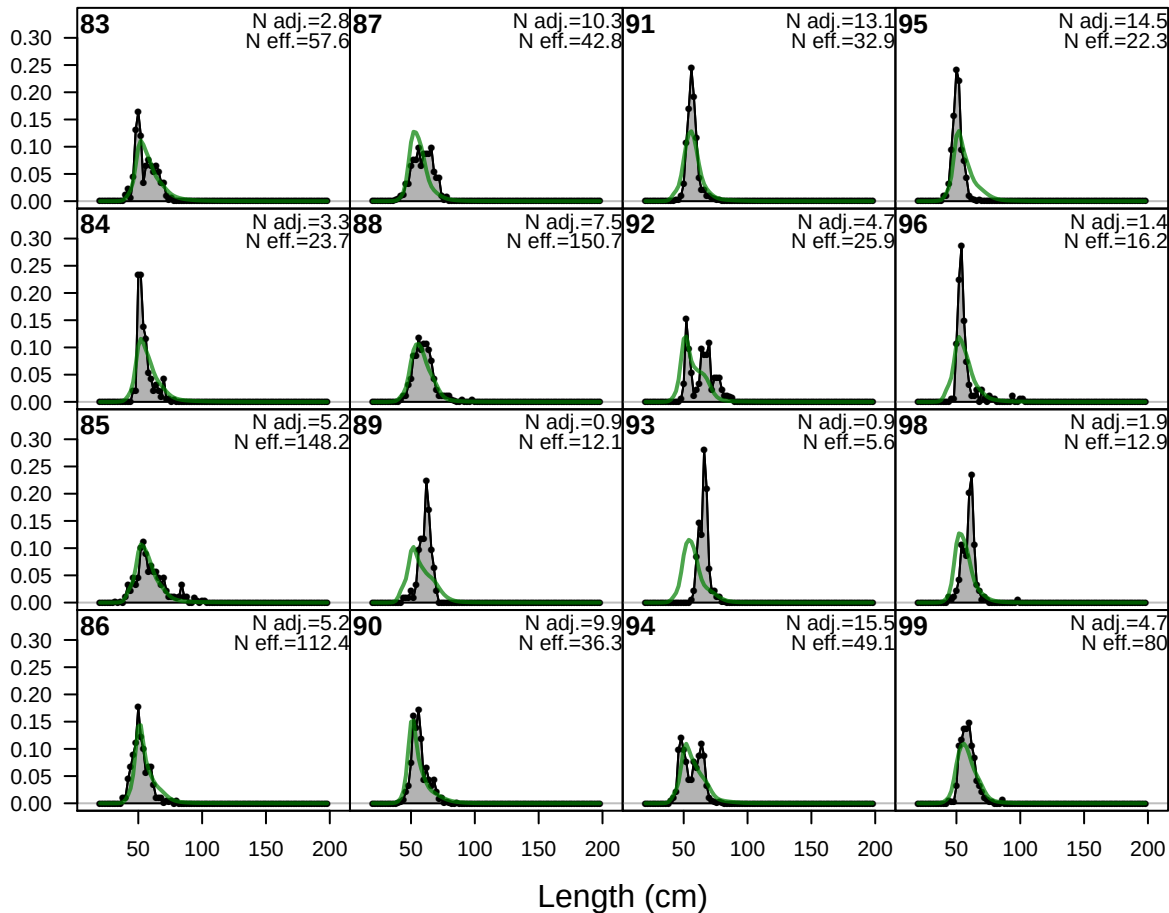


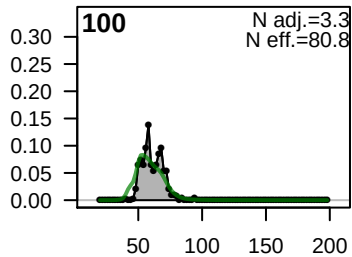
F21-DEL_I (whole catch)



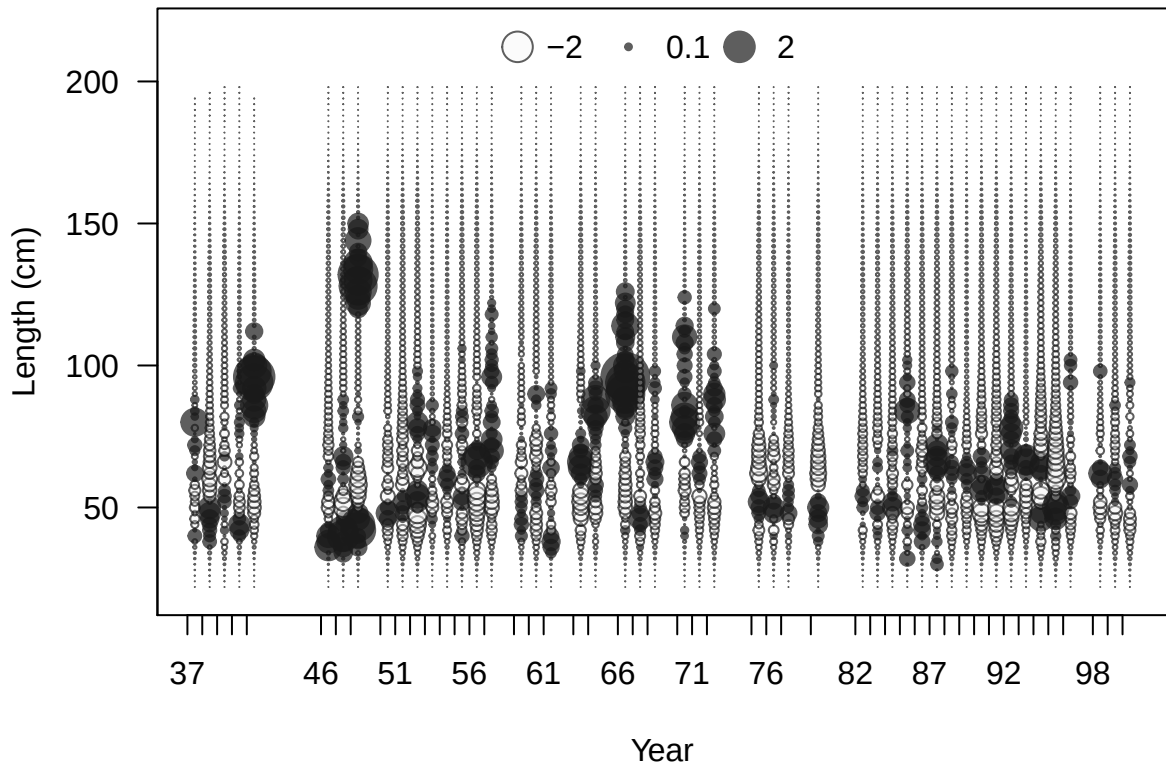




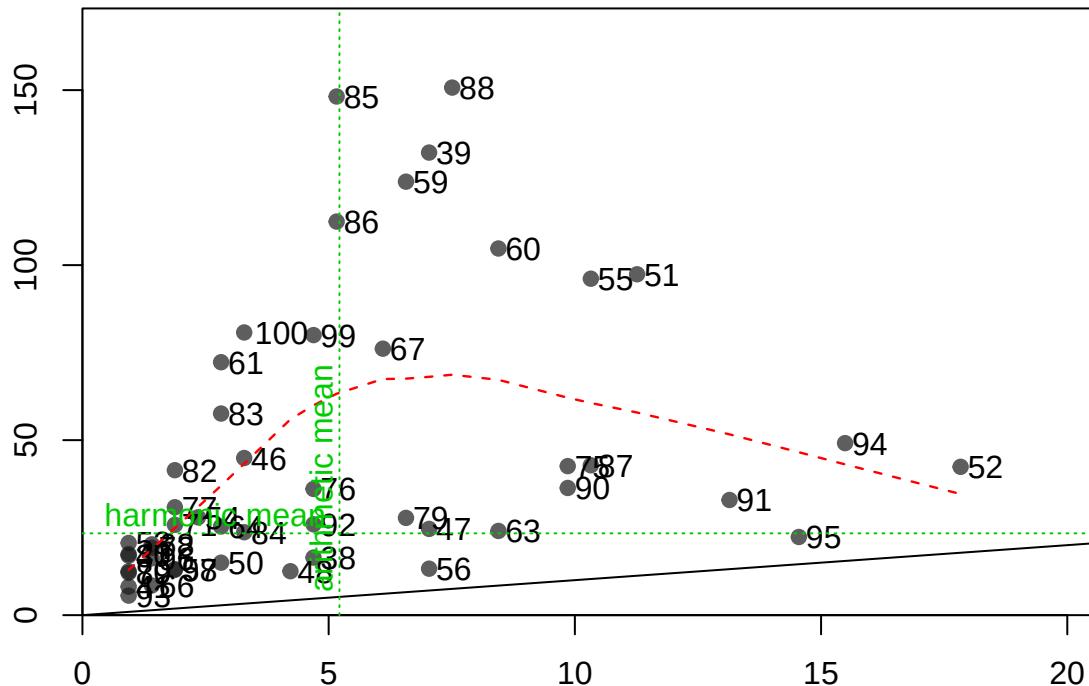




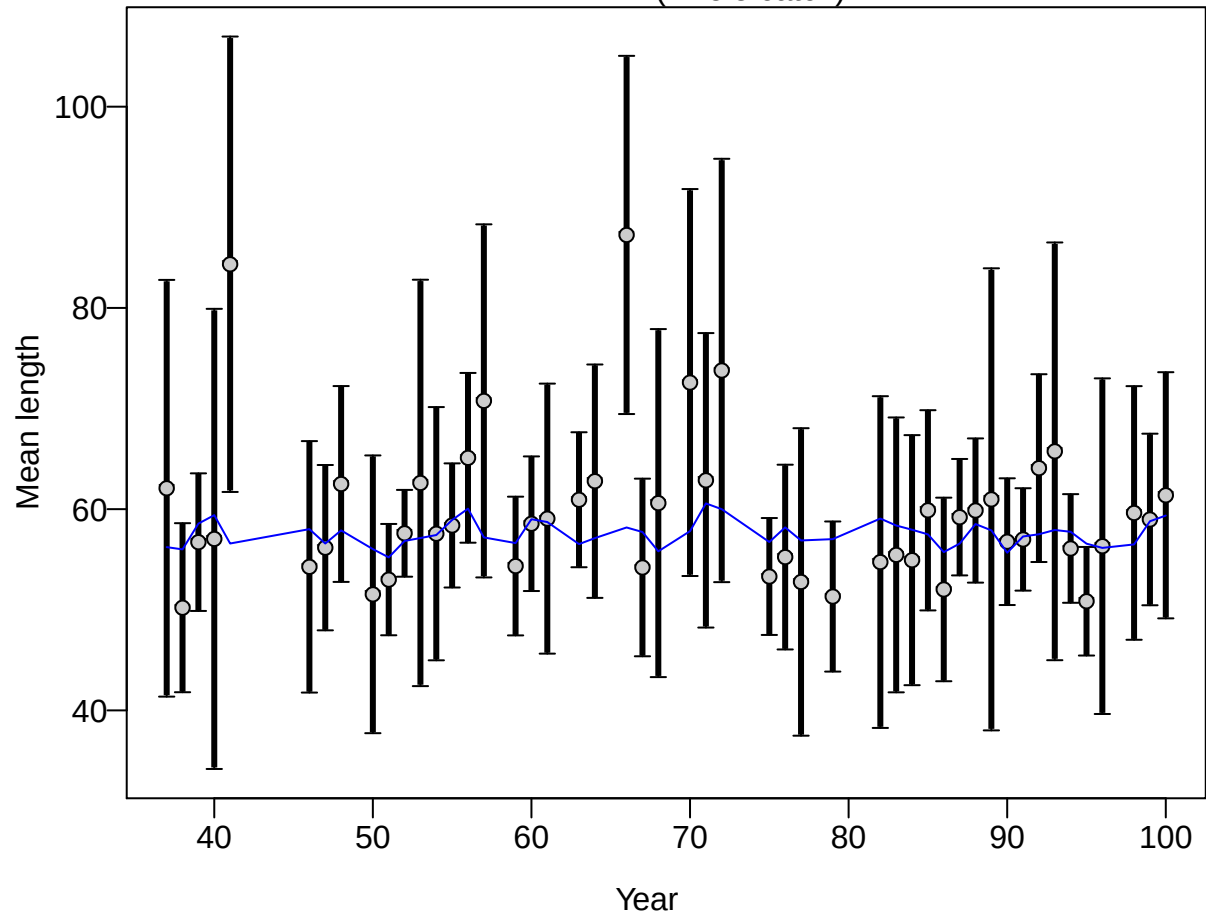
Length (cm)

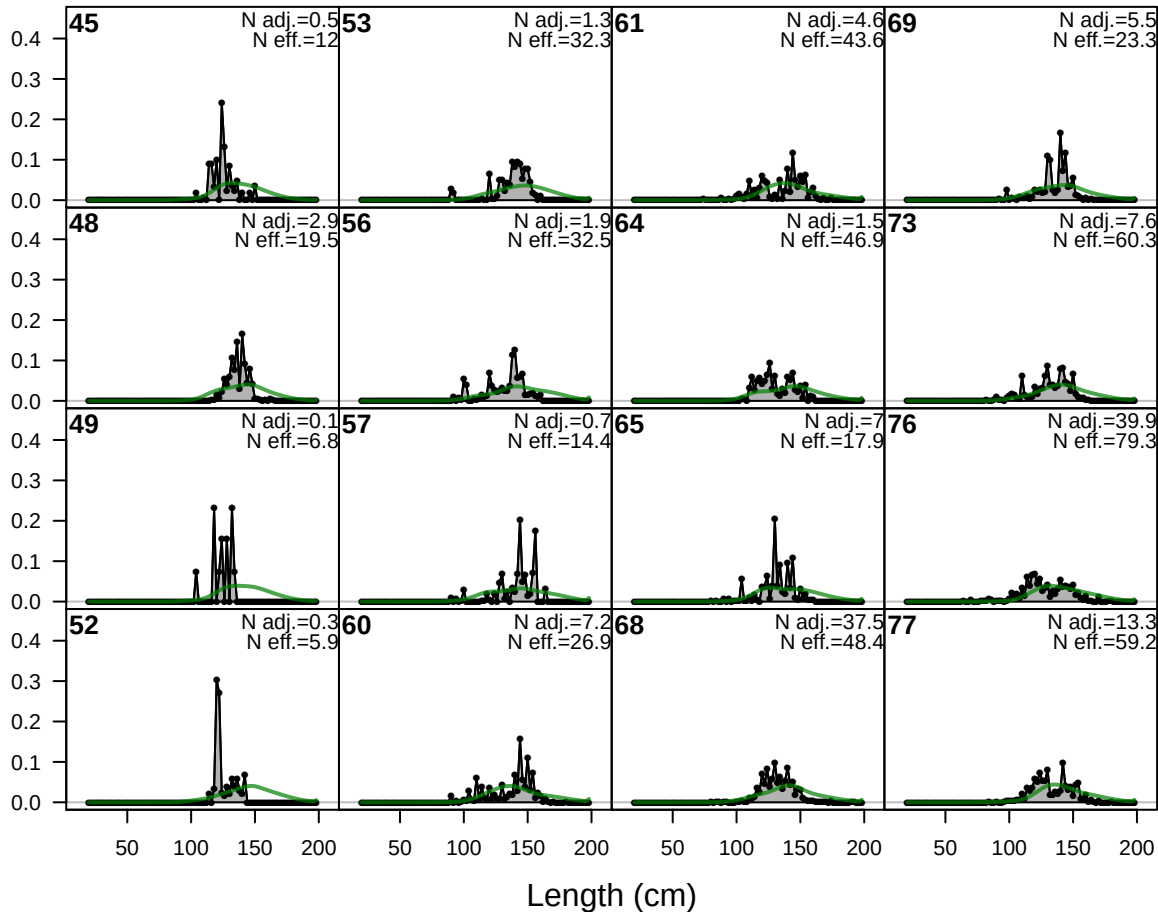


Effective sample size

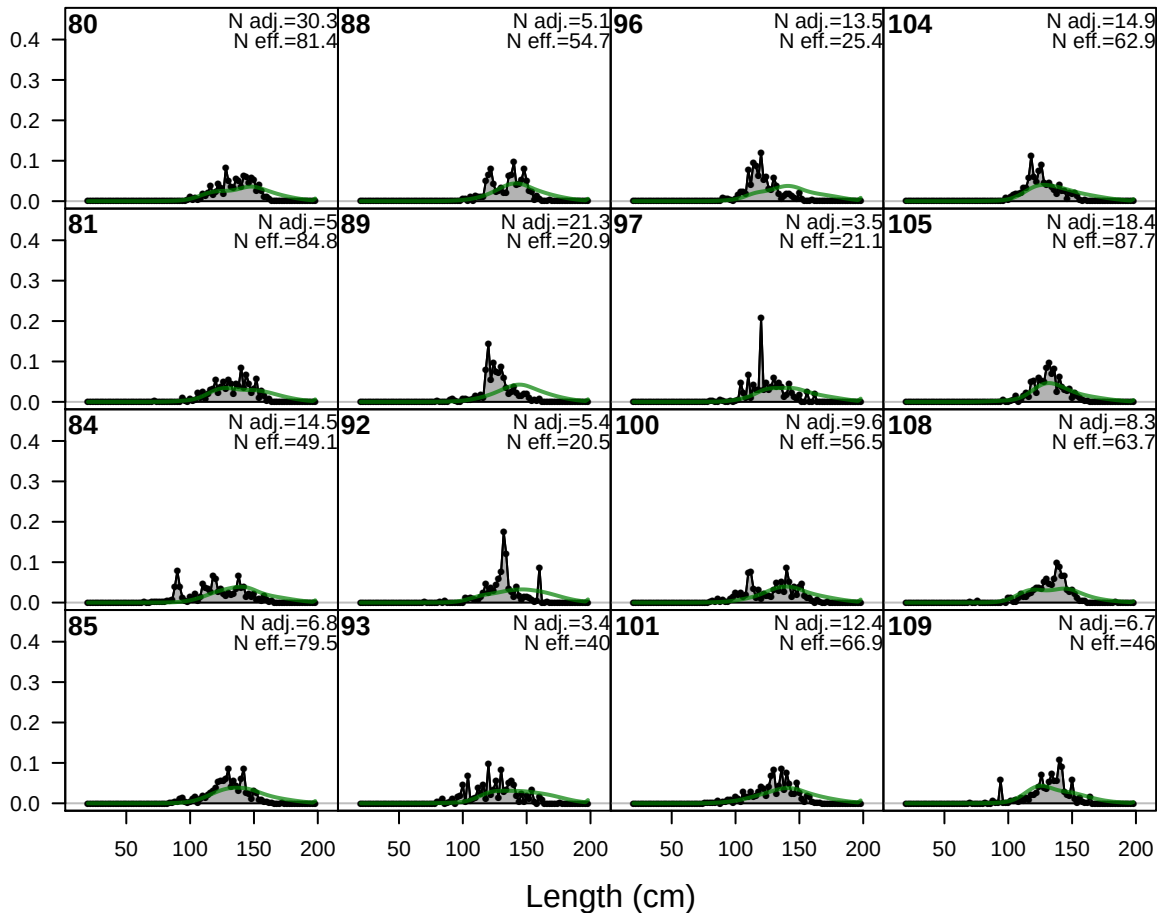


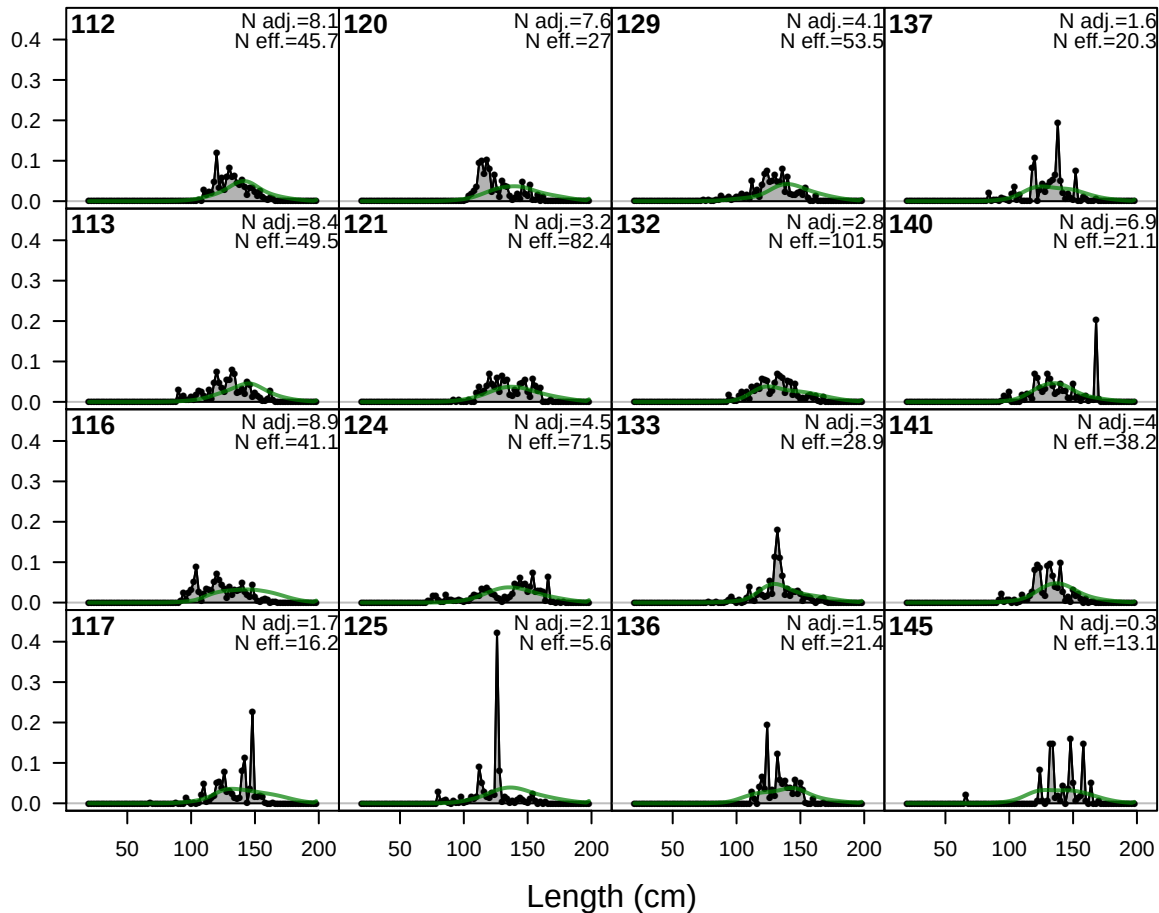
F22-BB (whole catch)



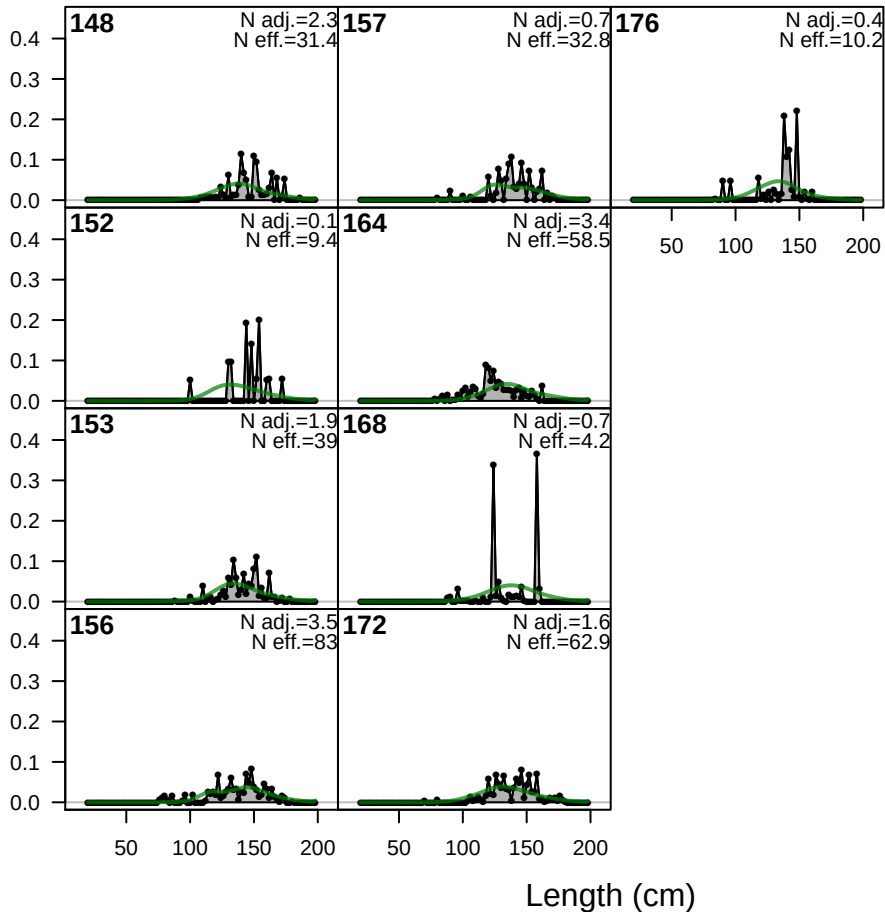


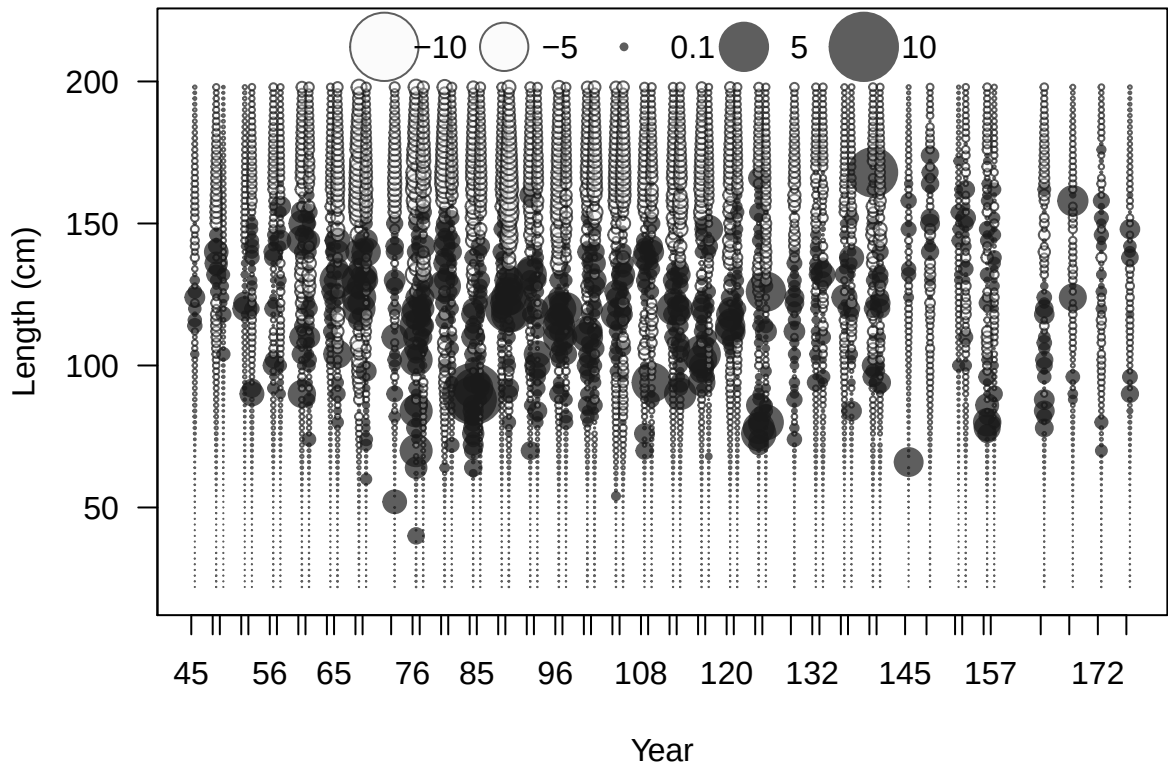
Proportion



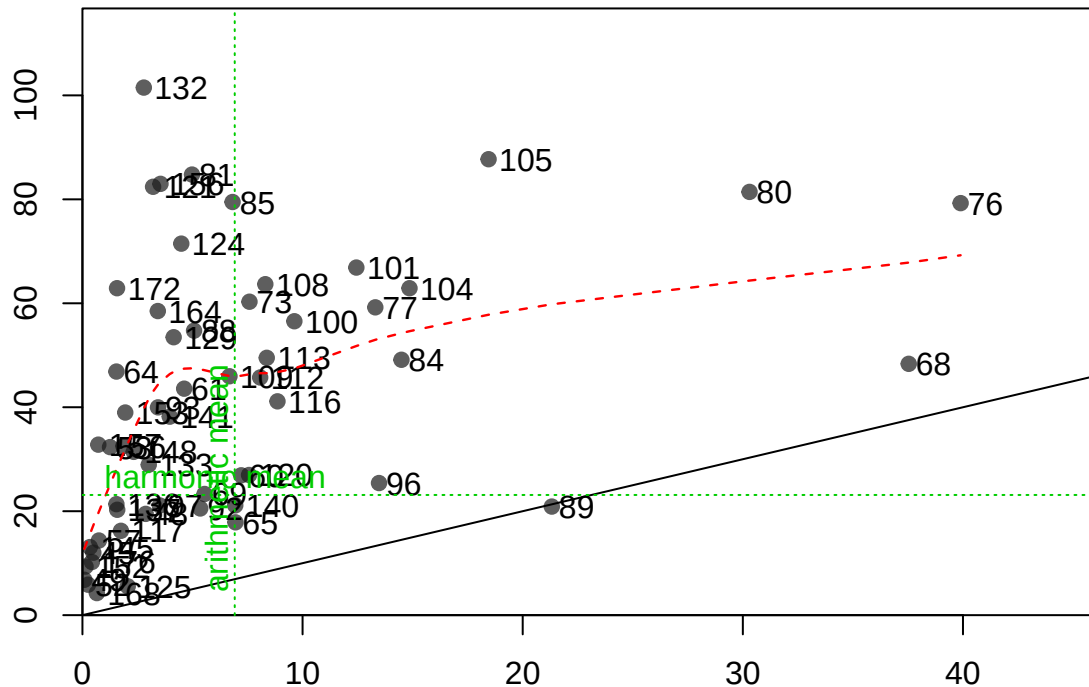


Proportion

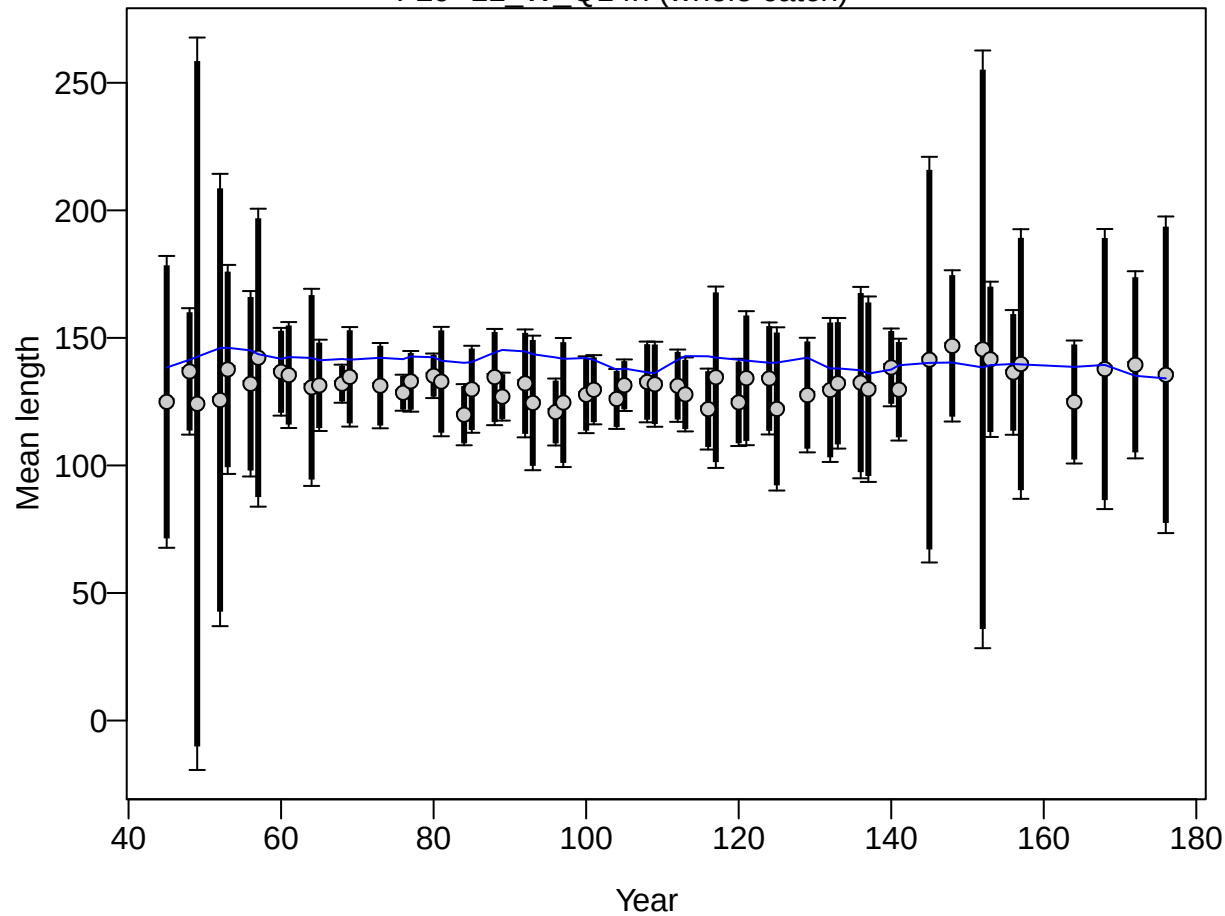


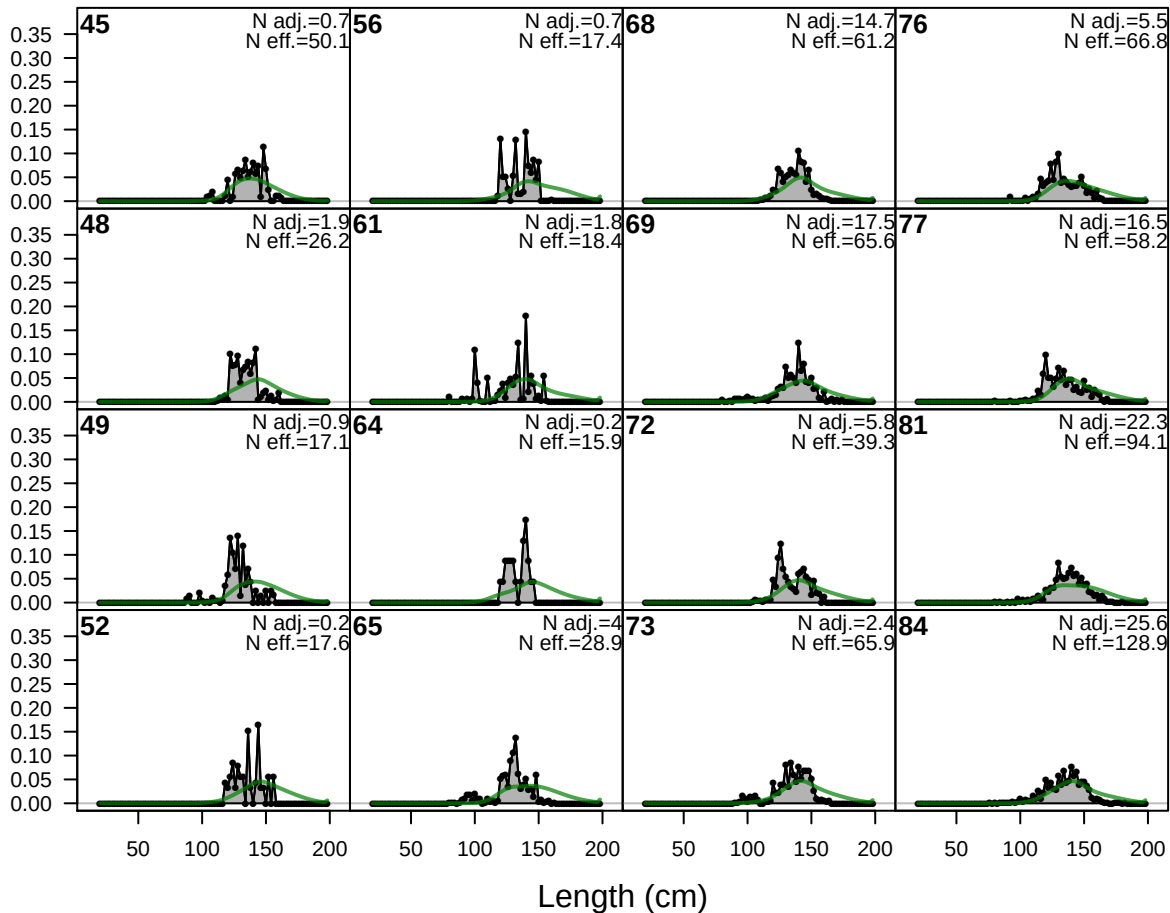


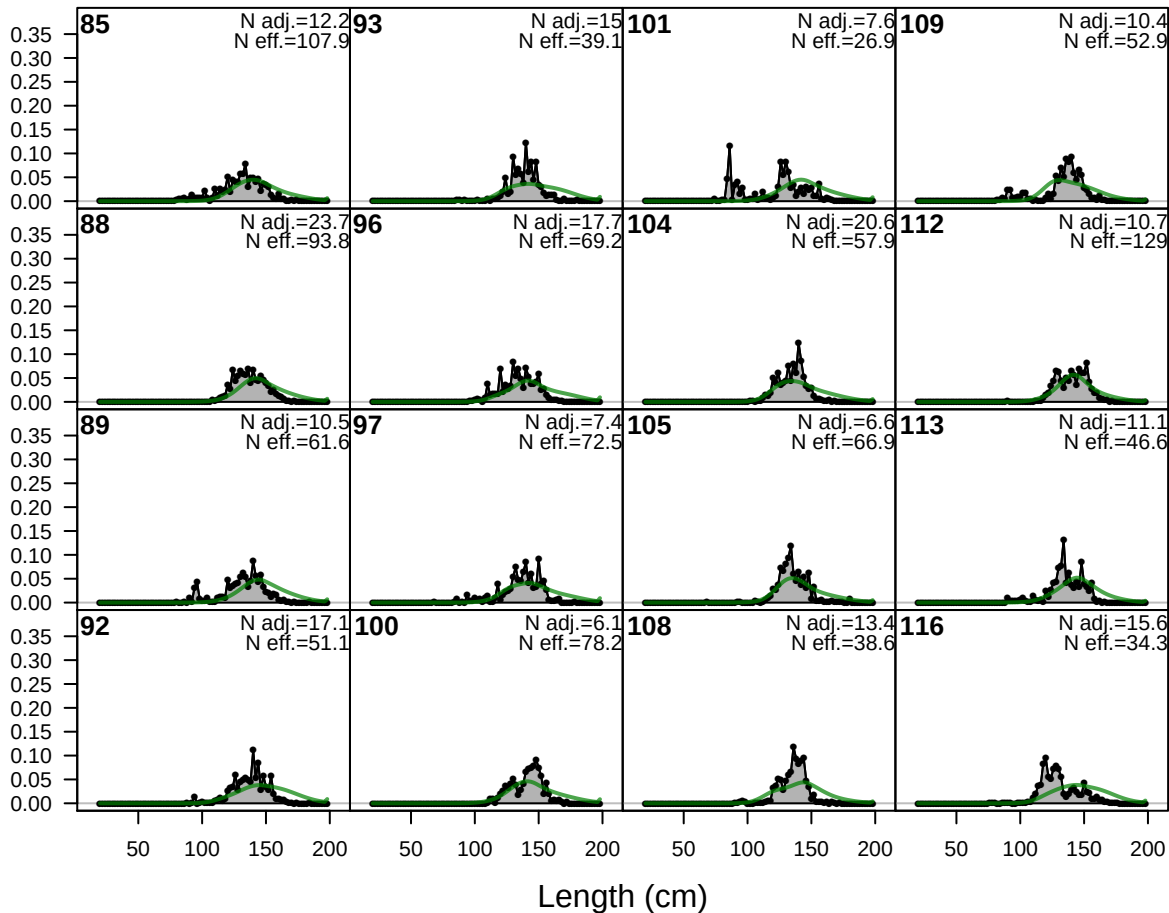
Effective sample size

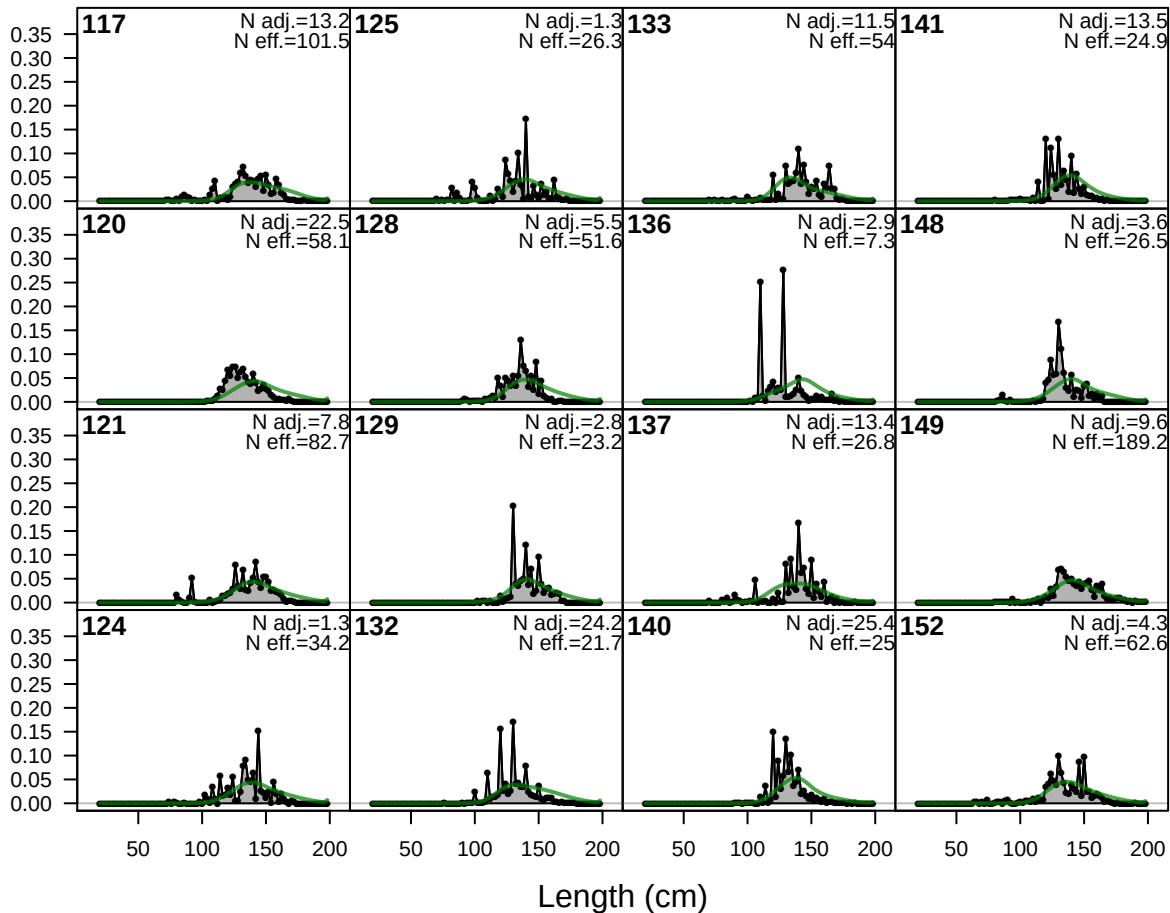


F29-LL W Q14n (whole catch)

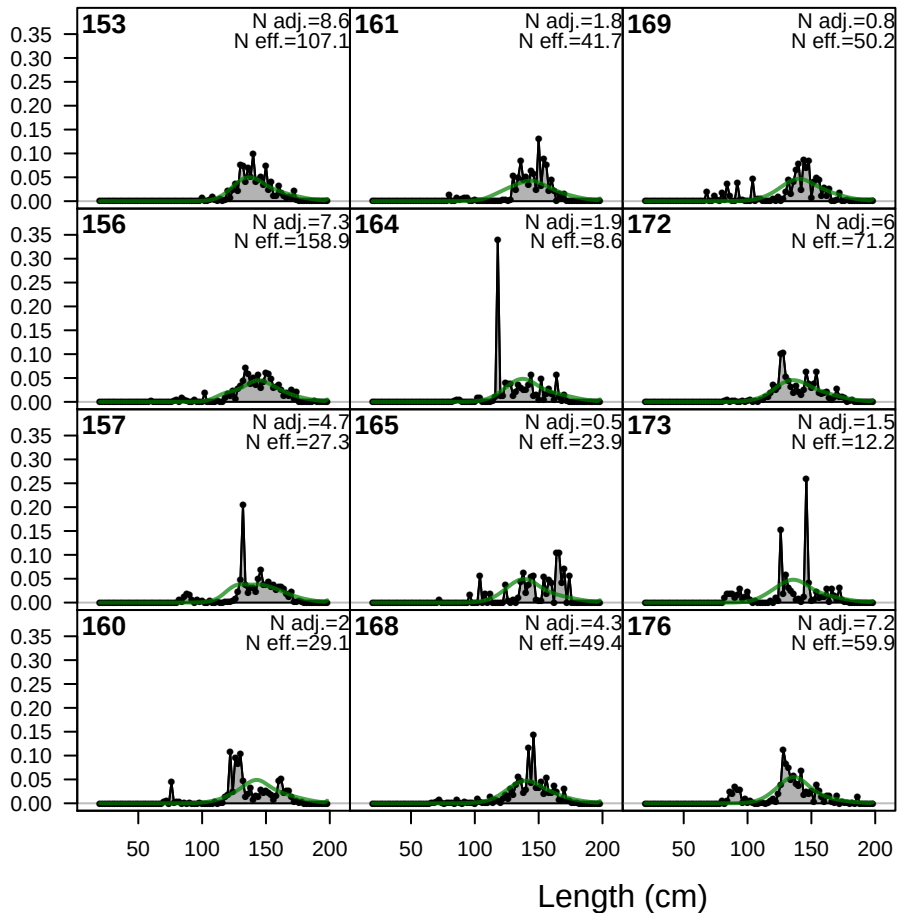


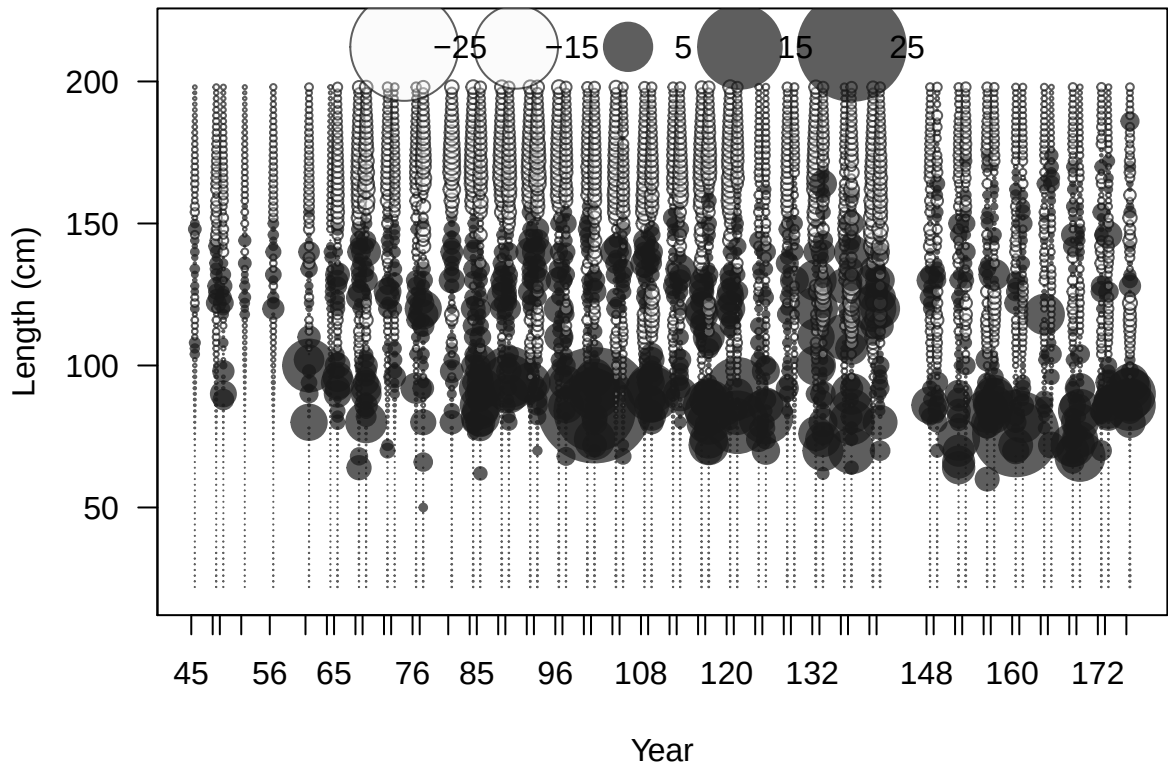




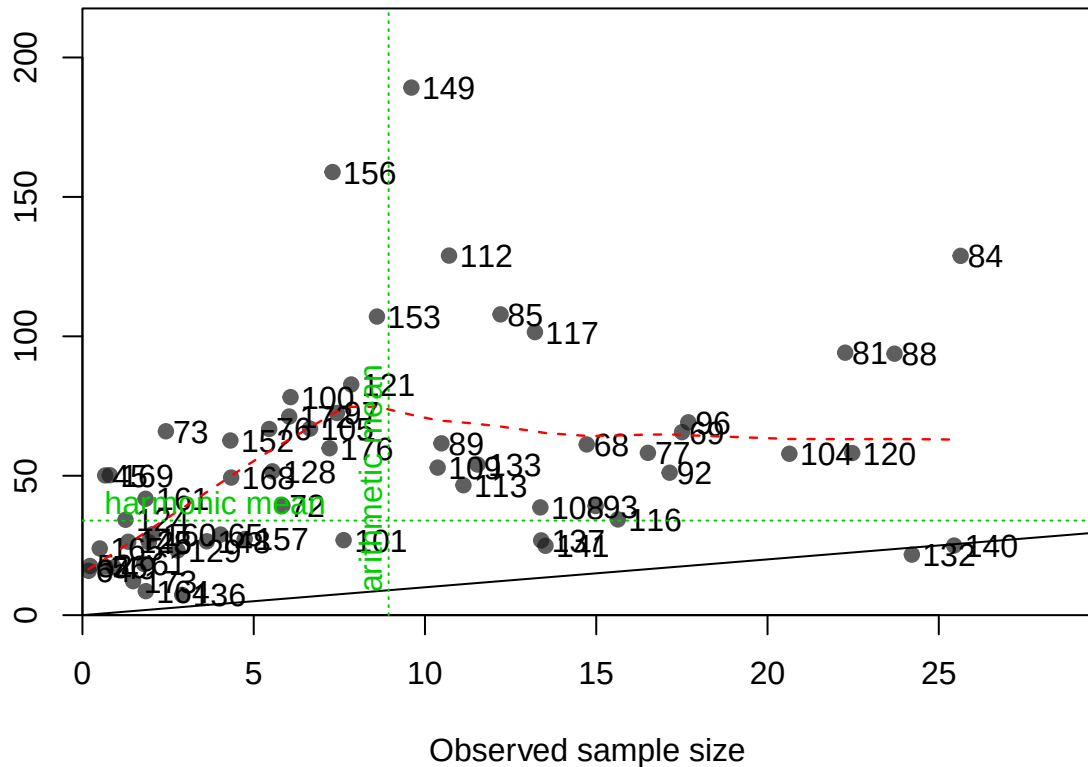


Proportion

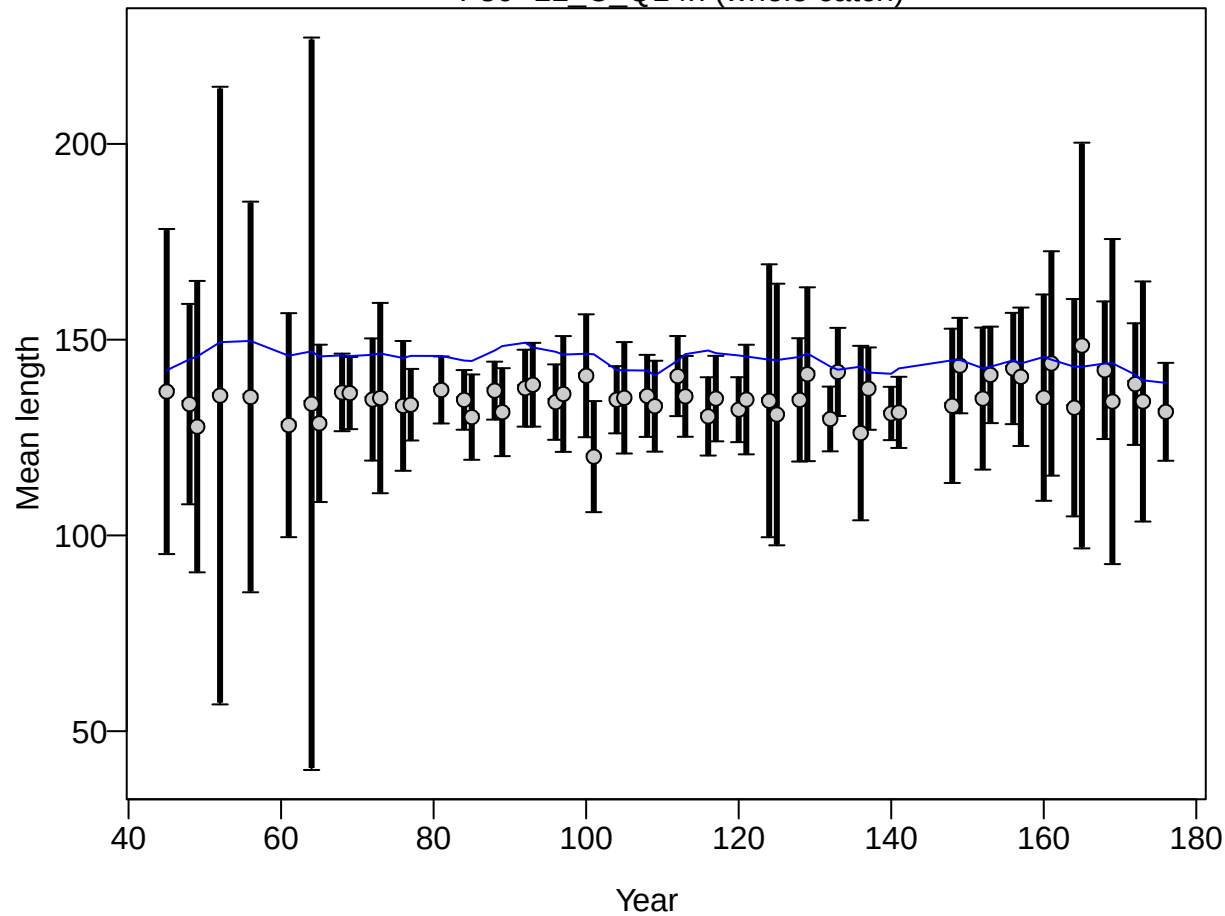




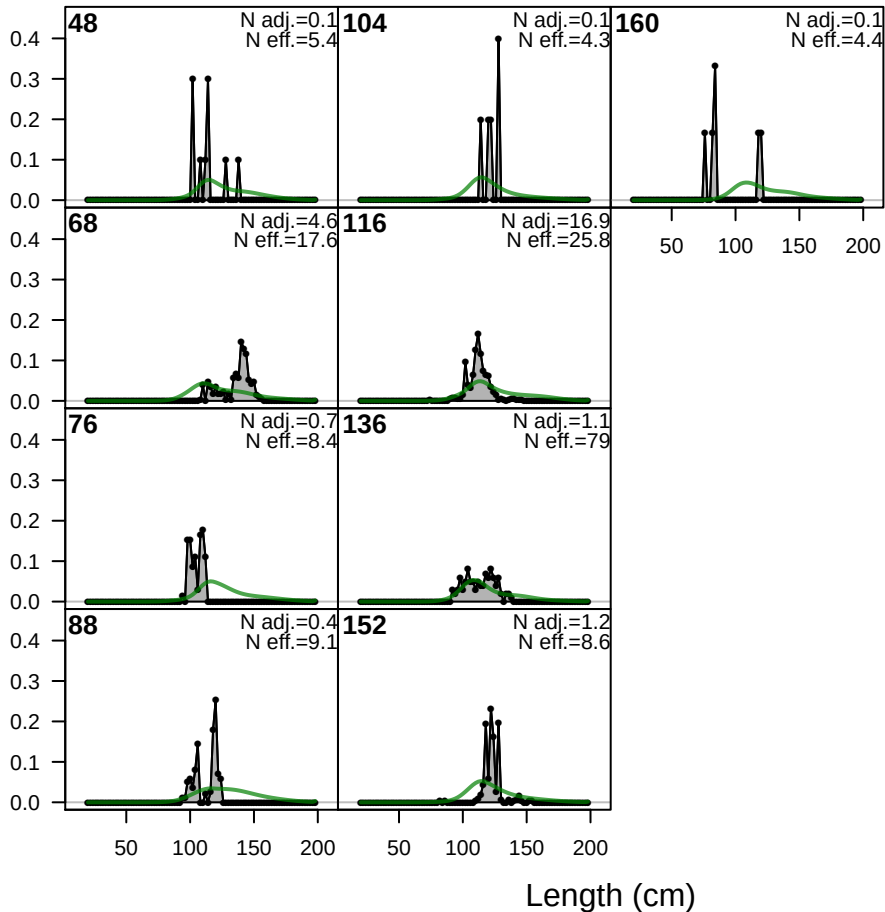
Effective sample size

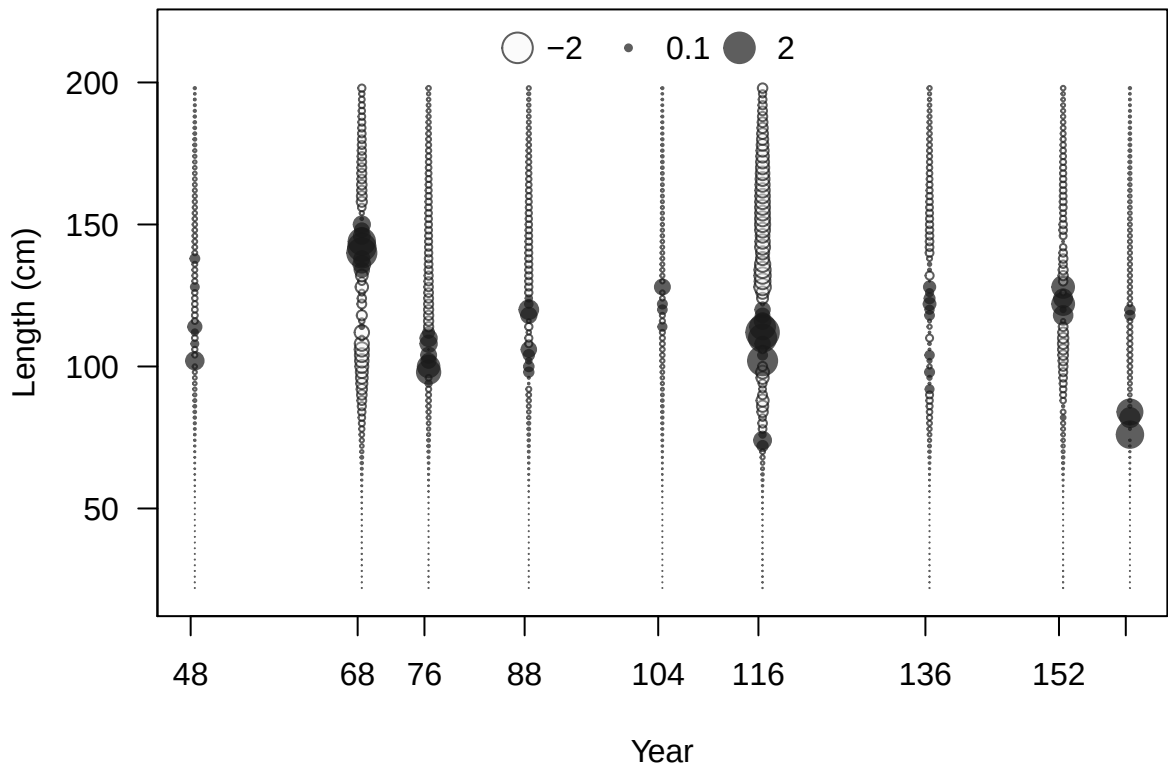


F30-LL_C_Q14n (whole catch)

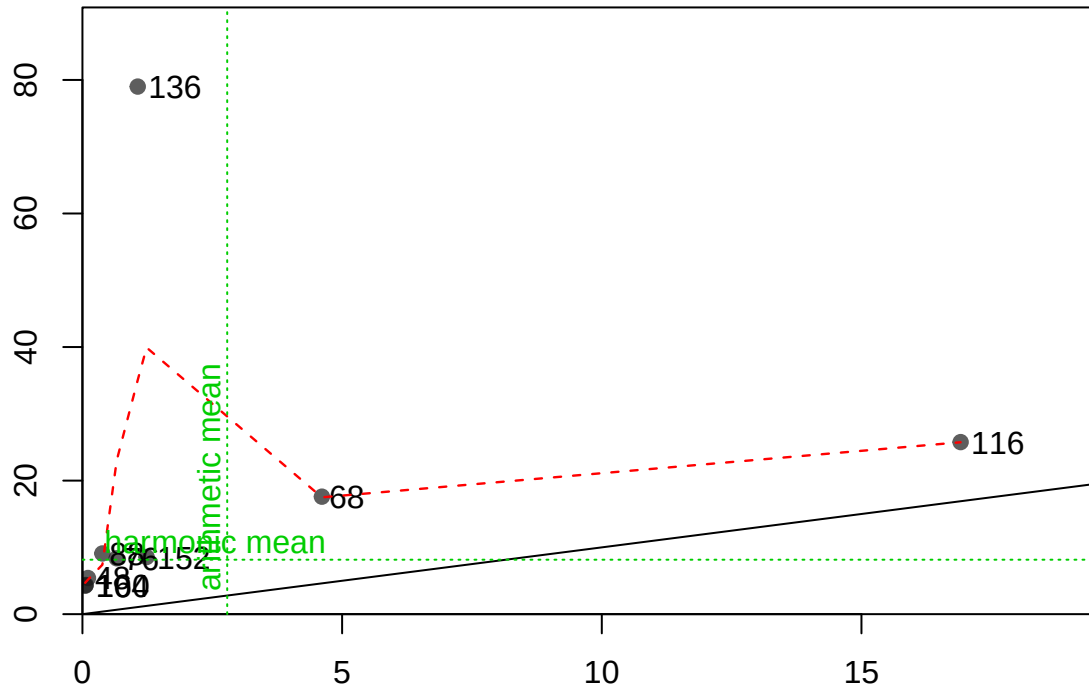


Proportion



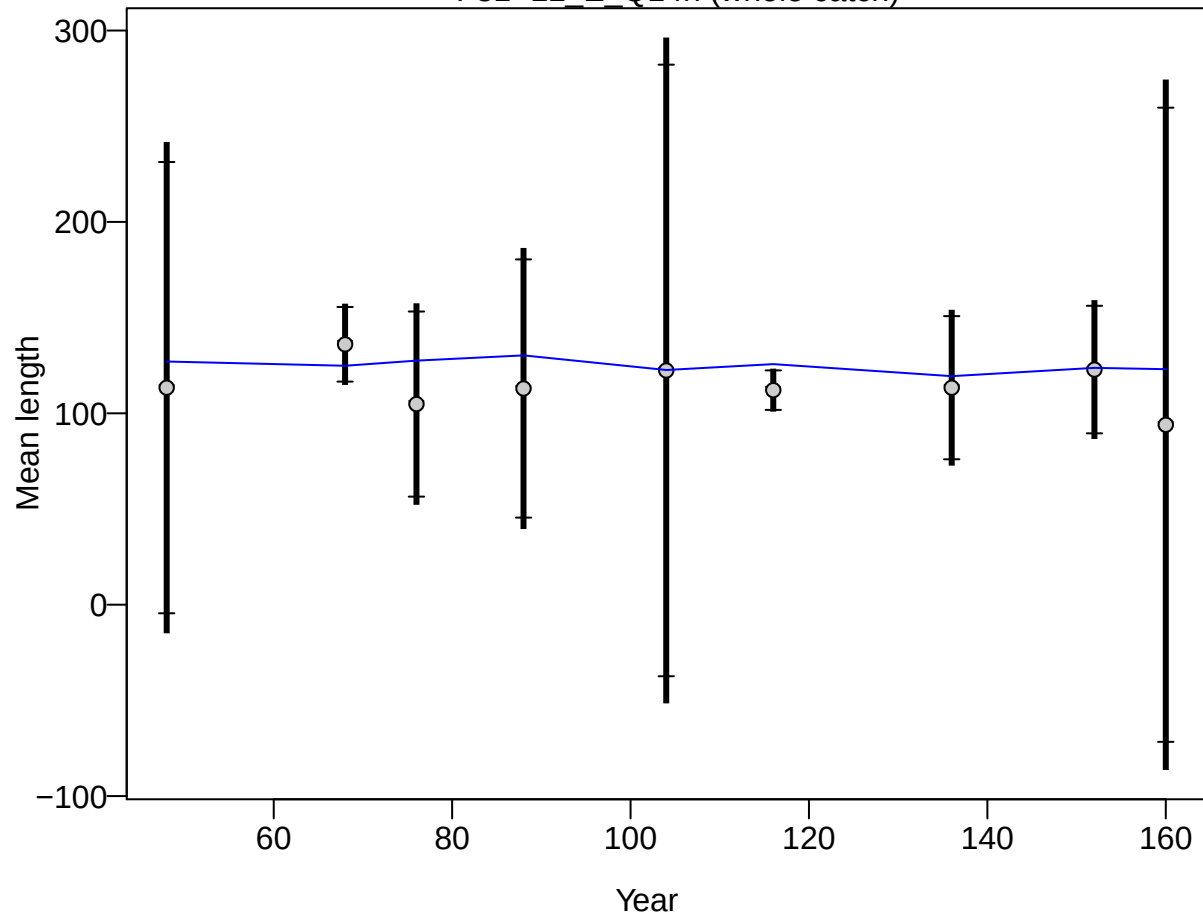


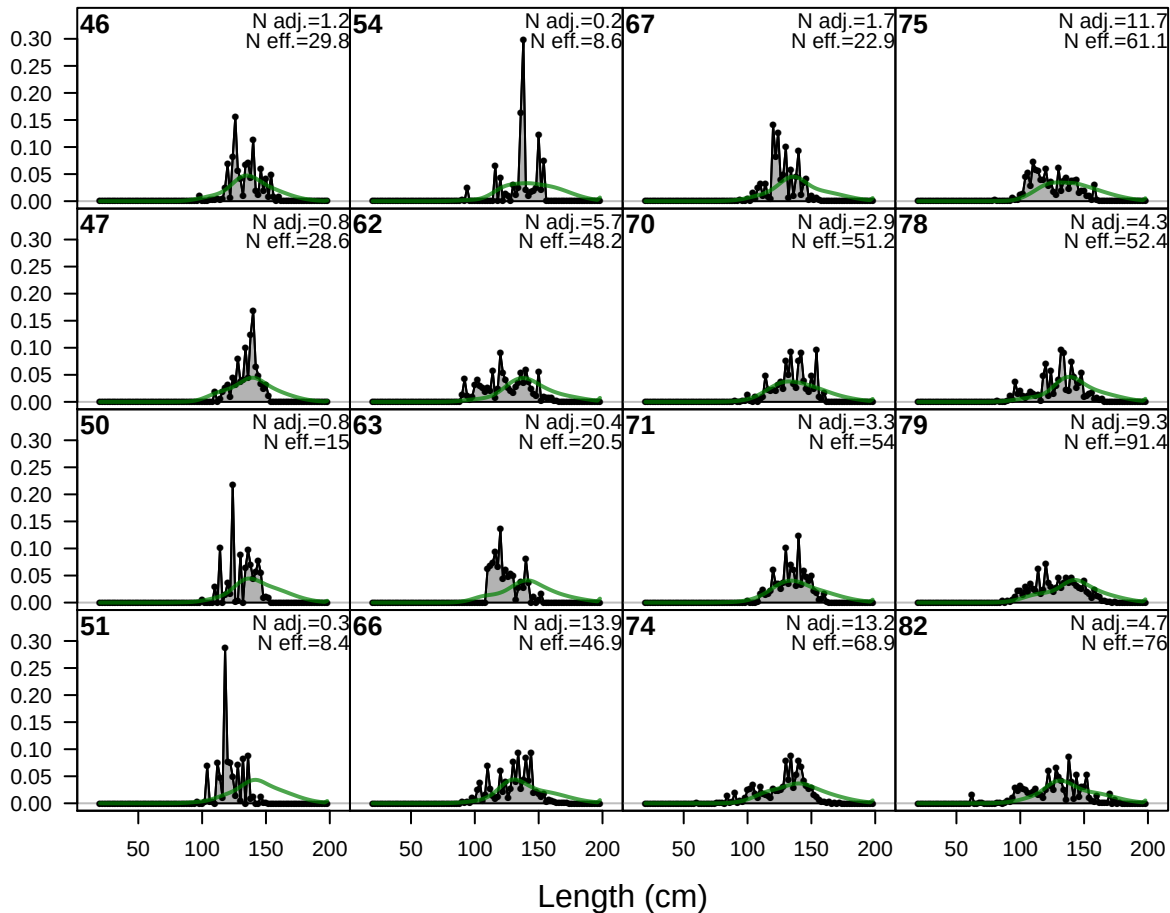
Effective sample size

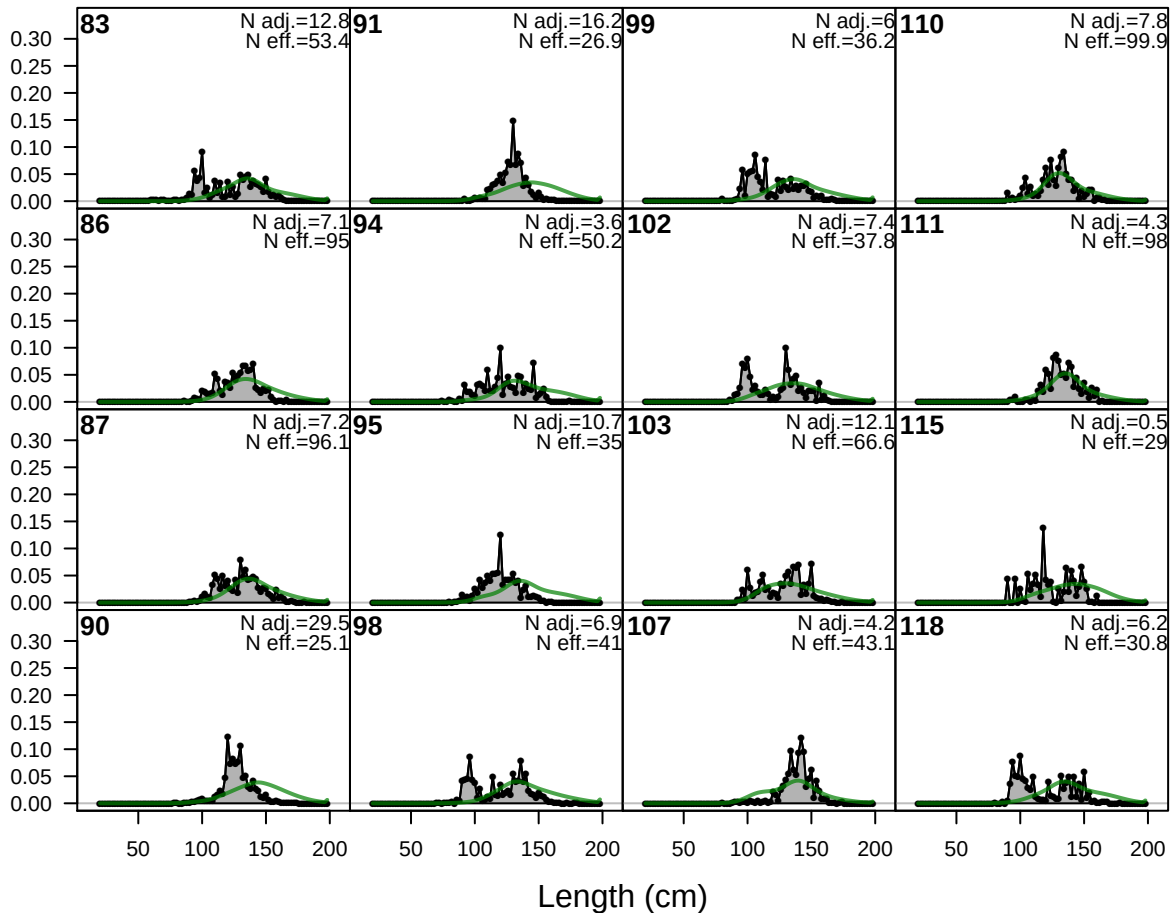


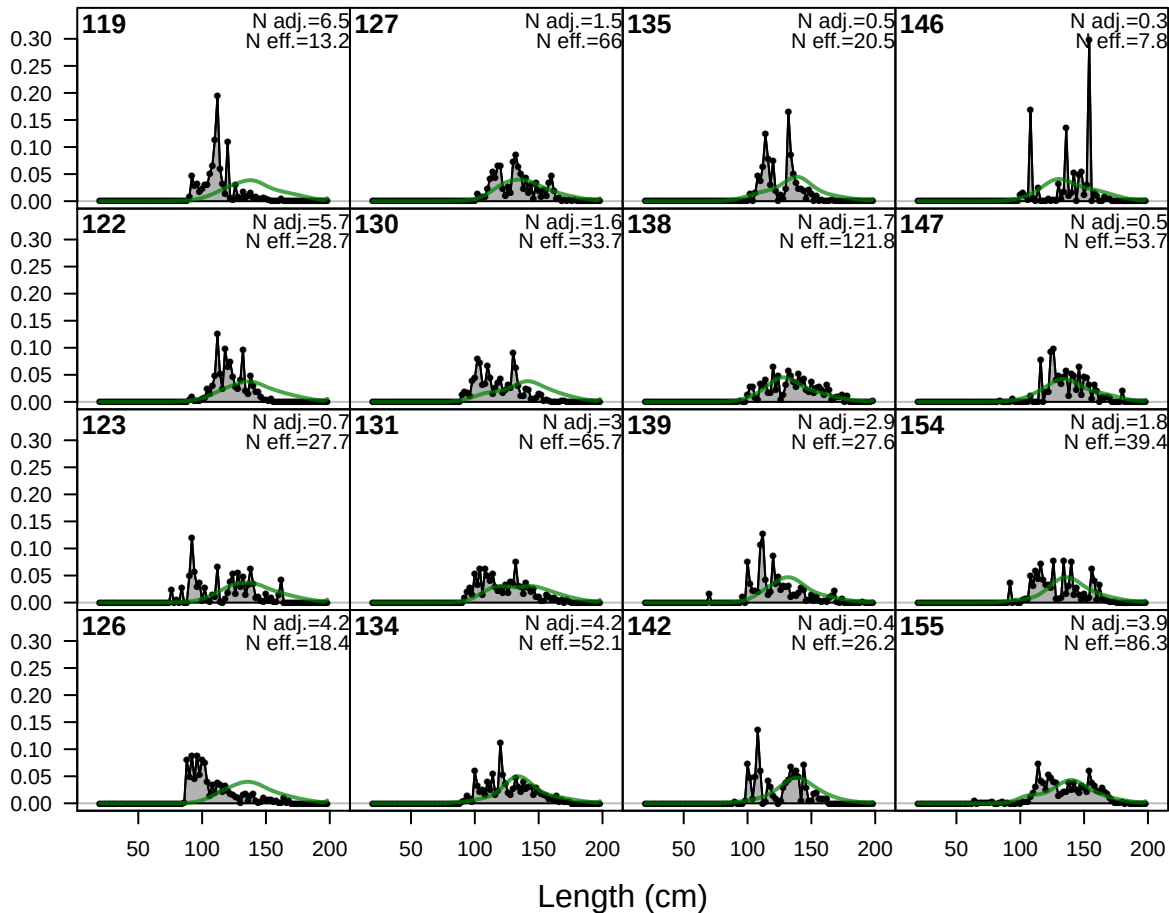
Observed sample size

F31-LL E_Q14n (whole catch)

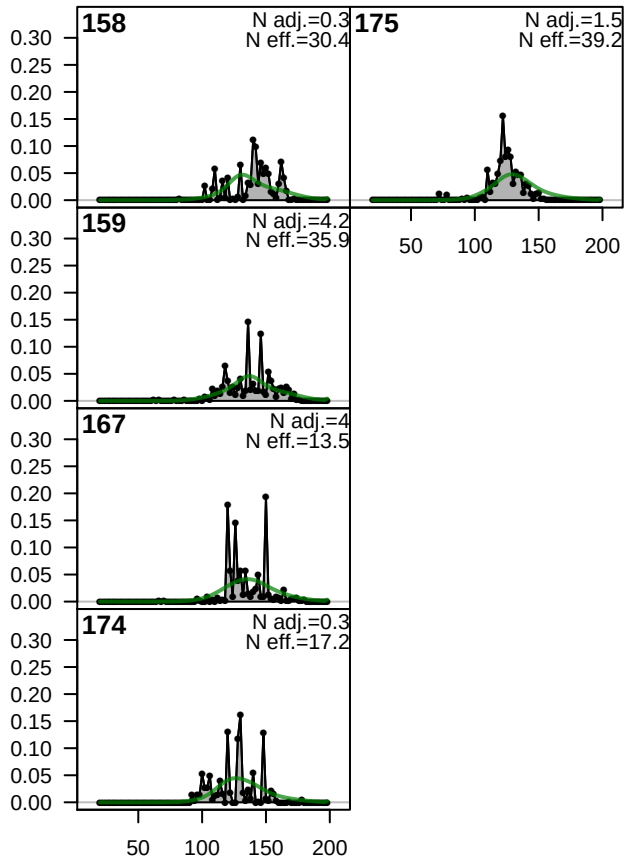




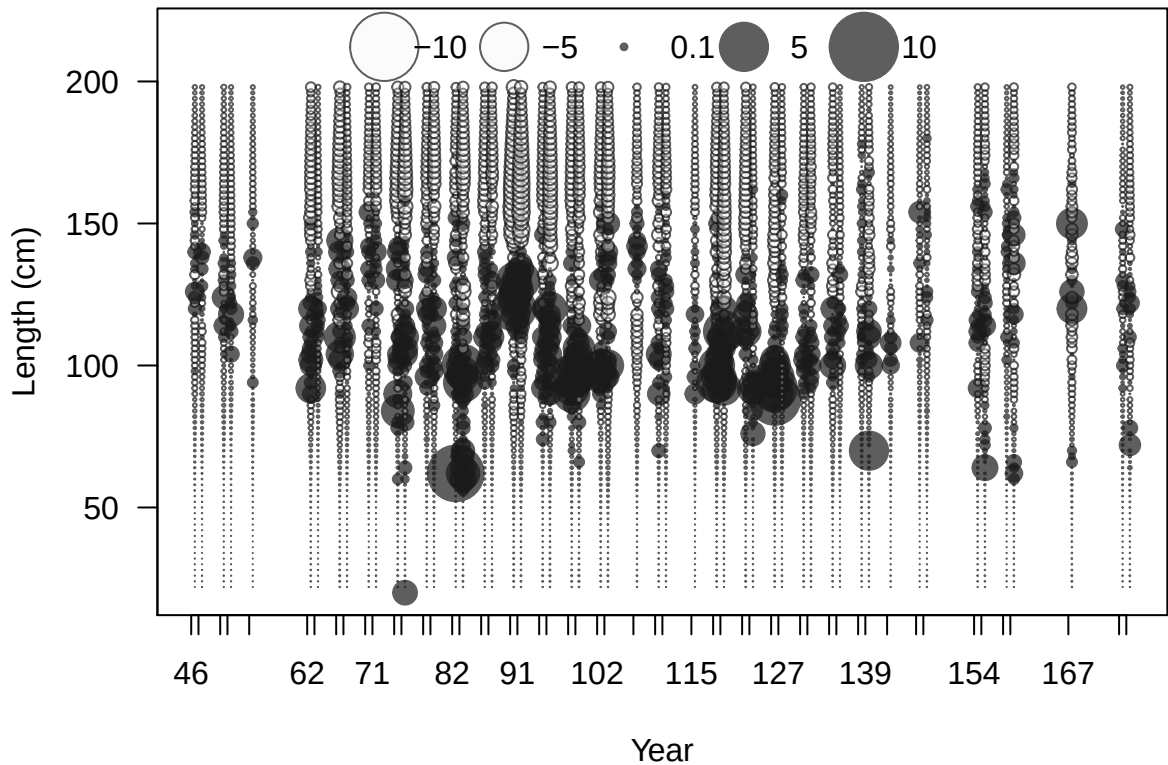


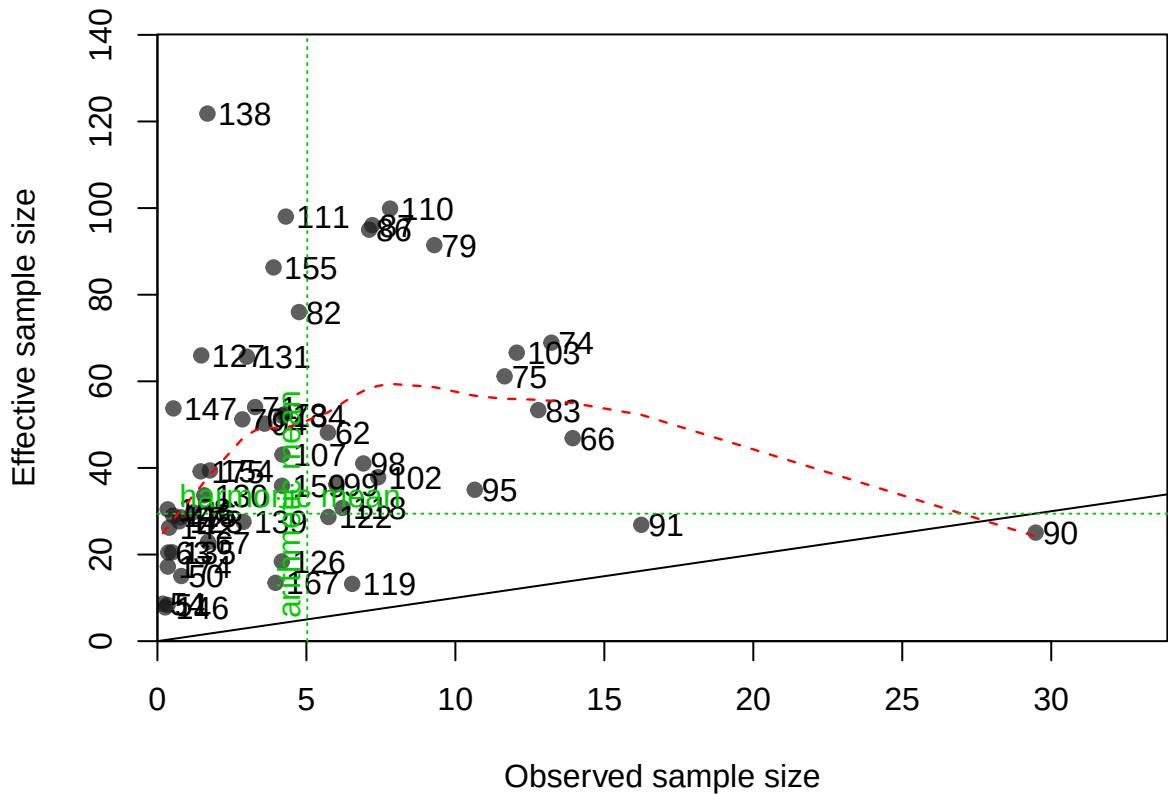


Proportion

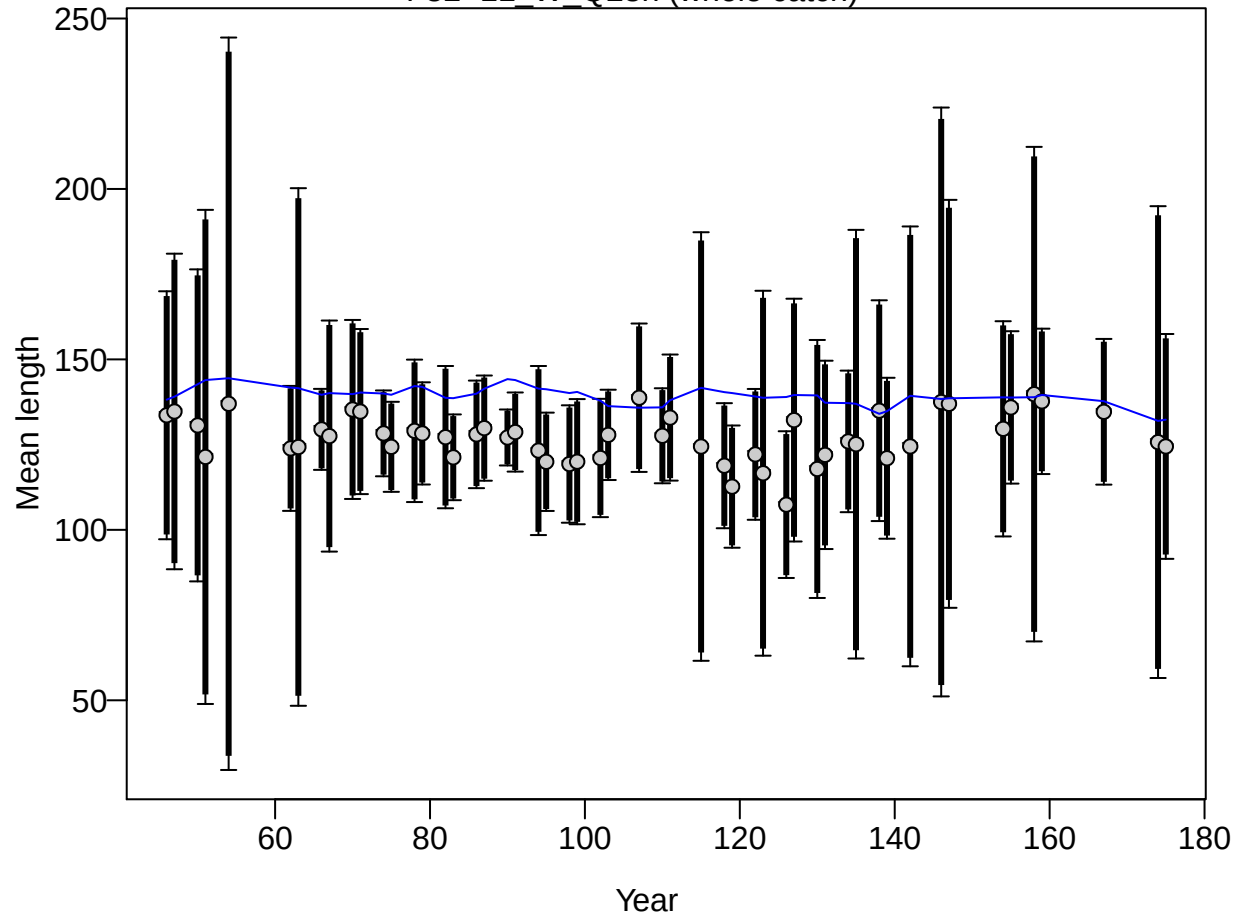


Length (cm)

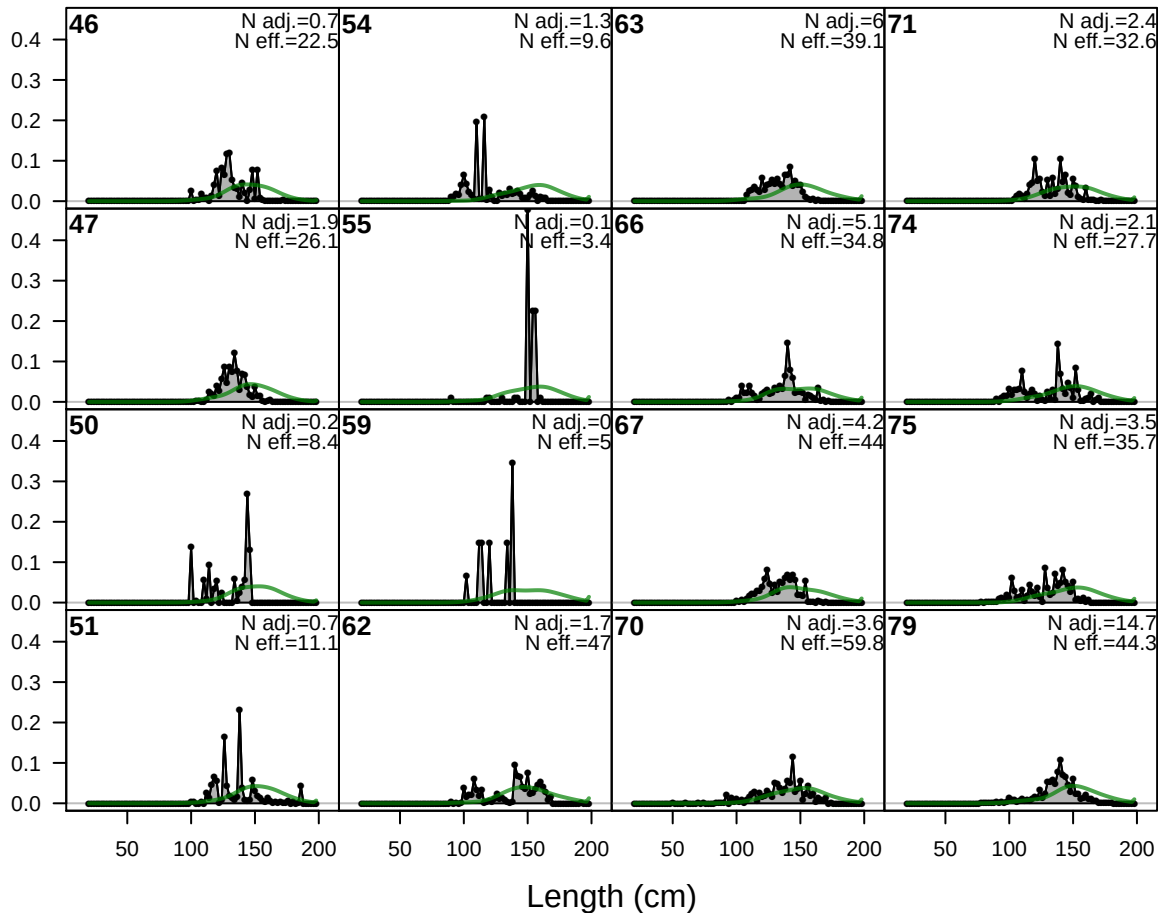


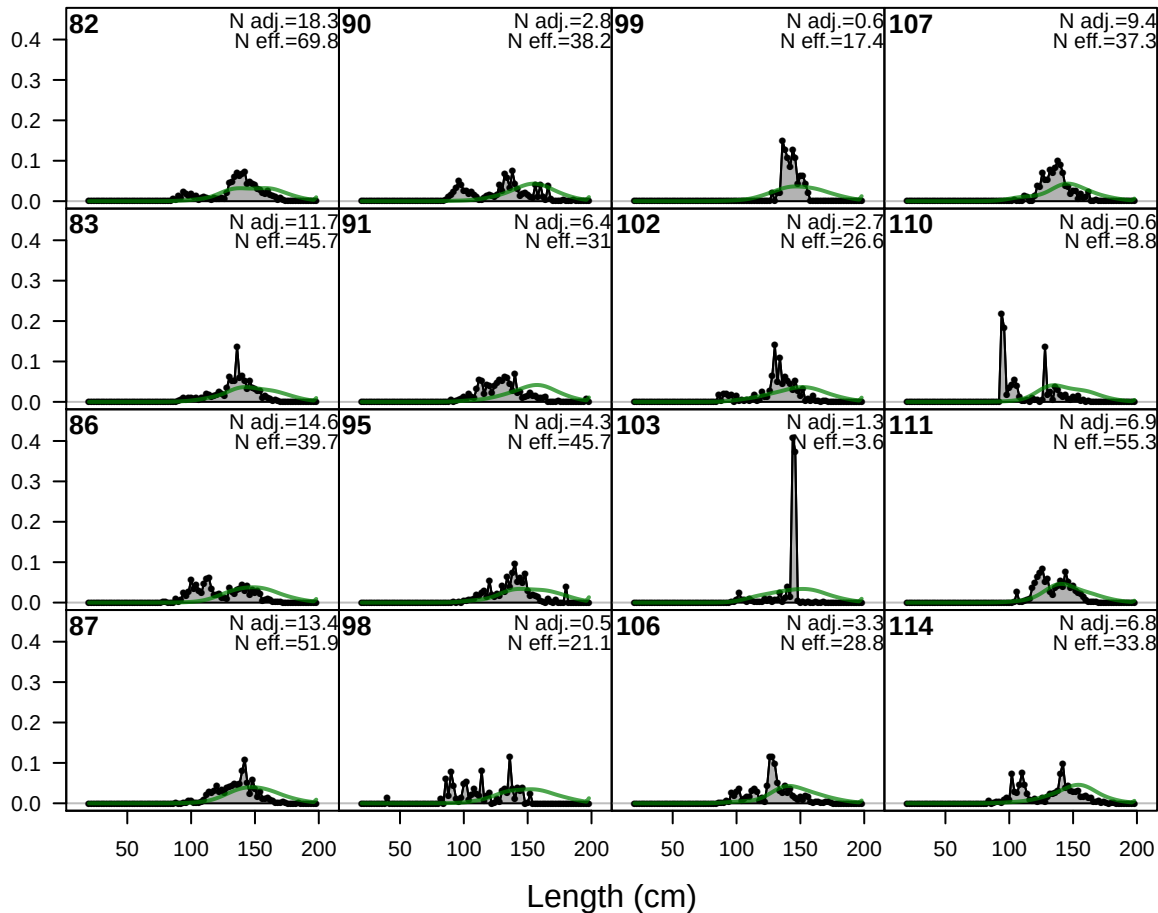


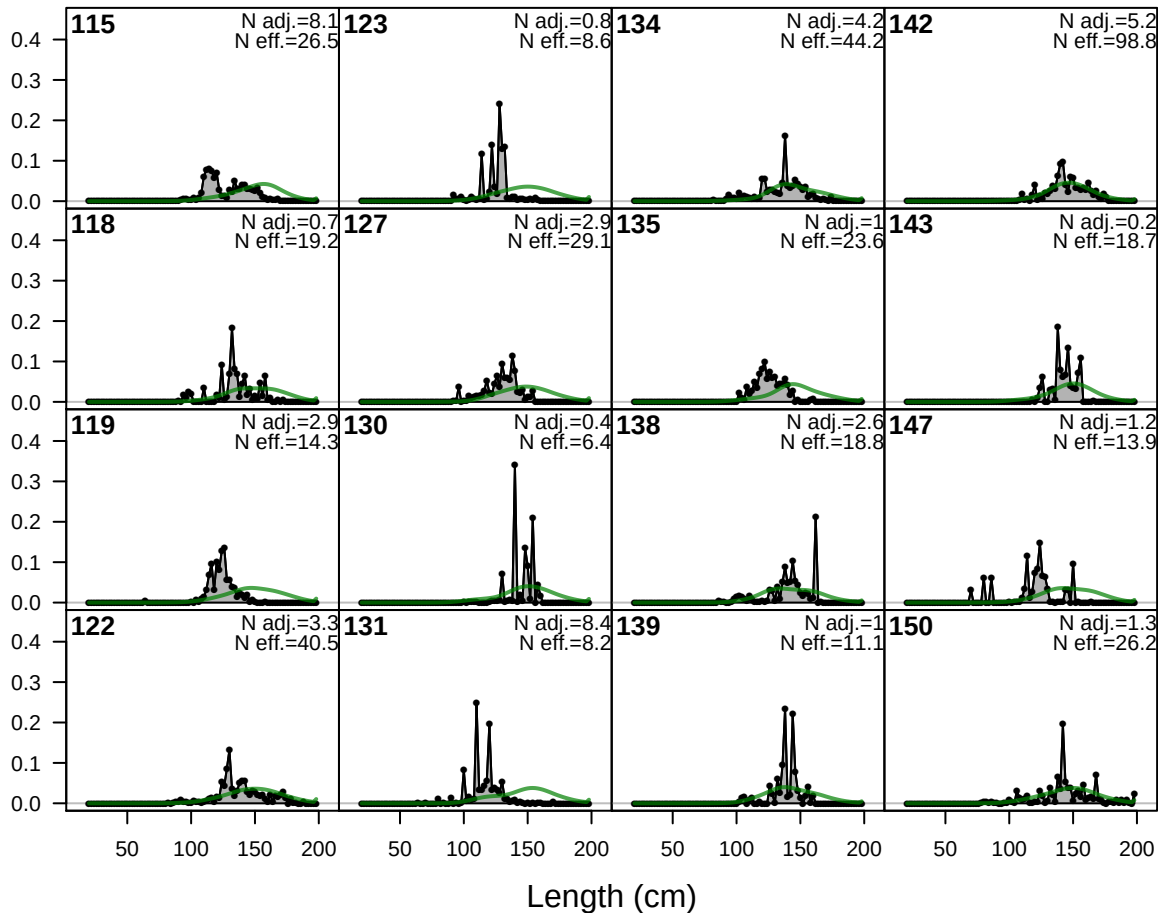
F32-LL_W_Q23n (whole catch)



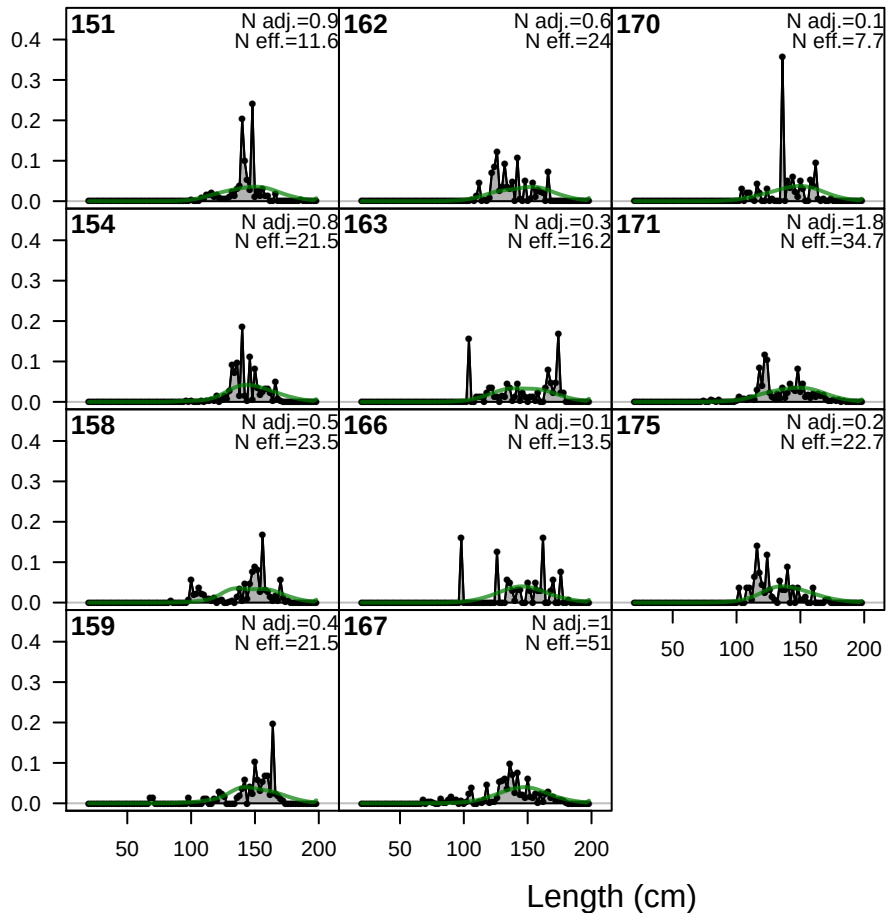
Proportion

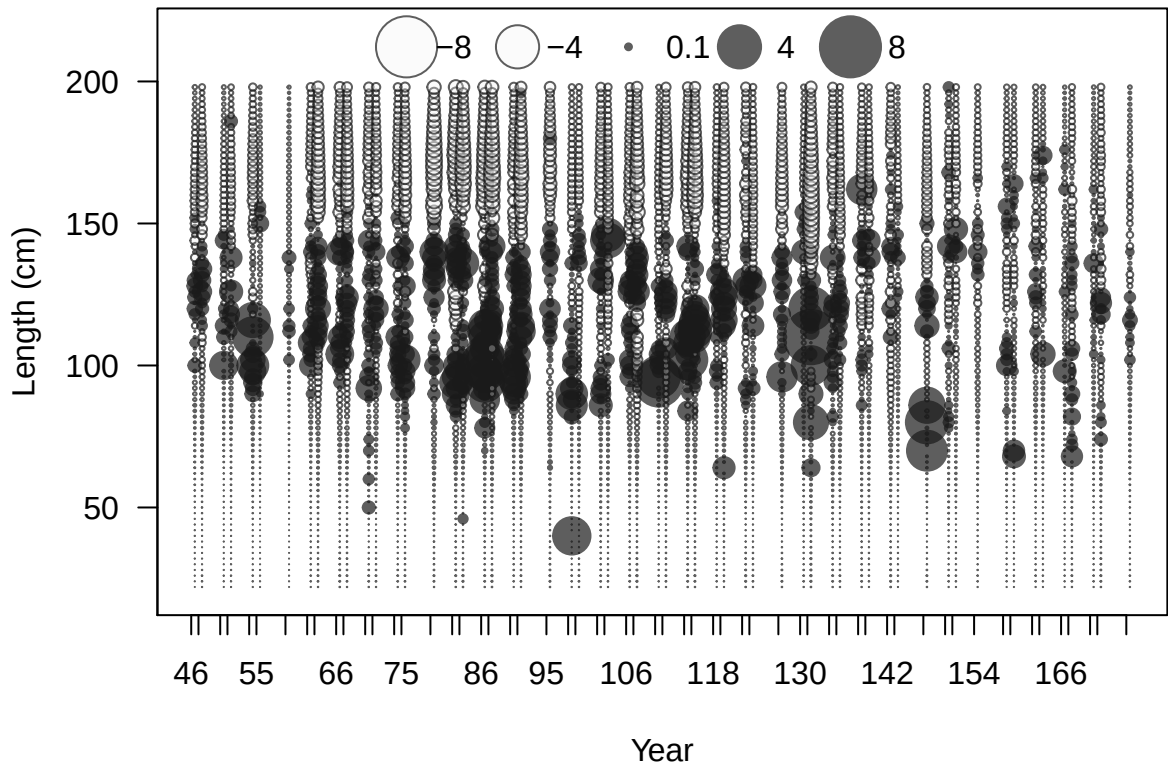




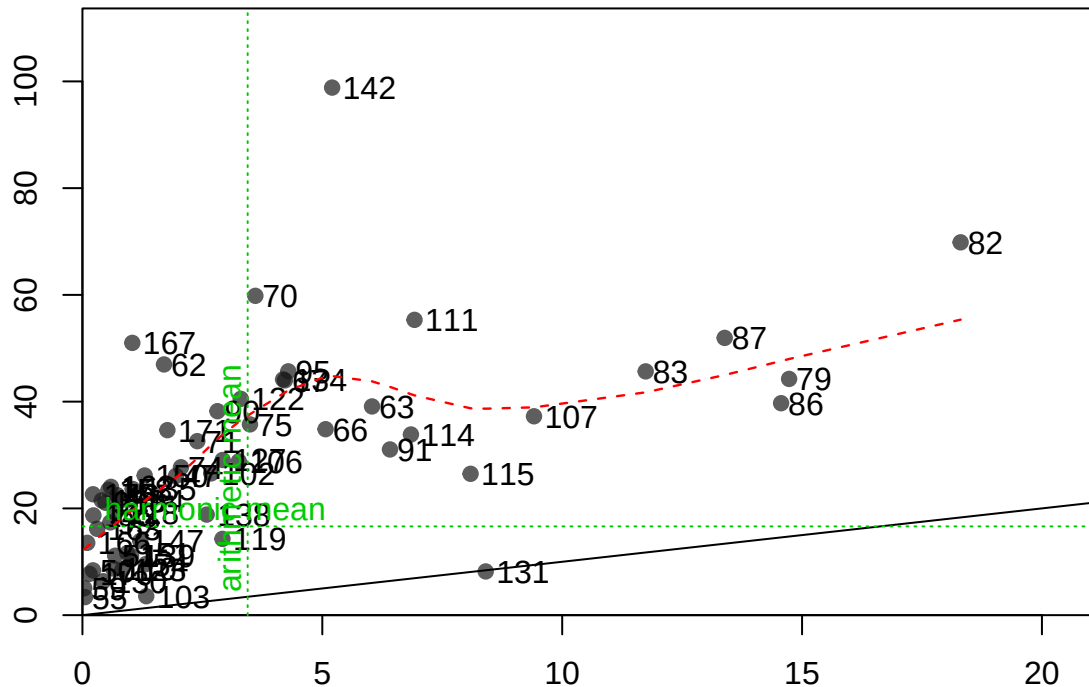


Proportion

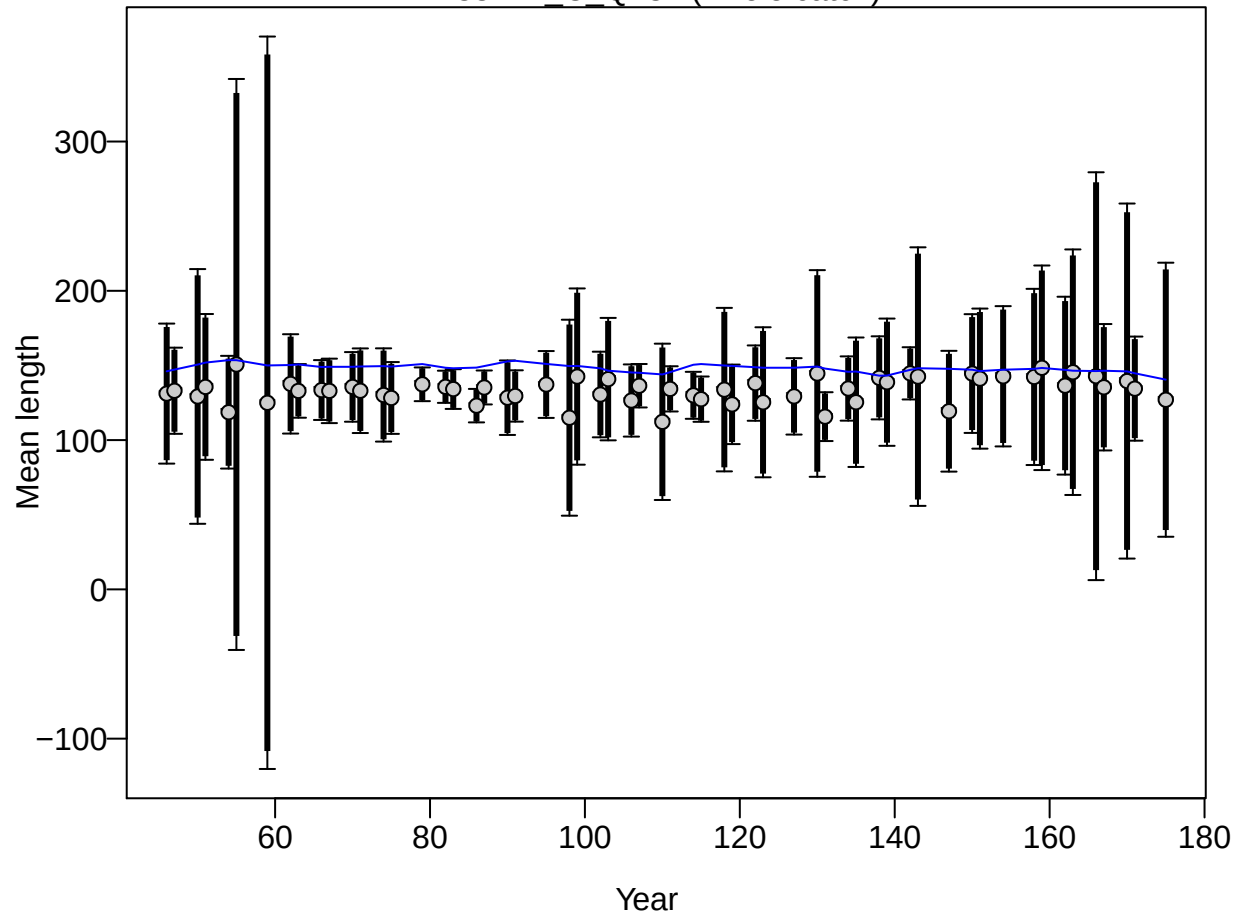


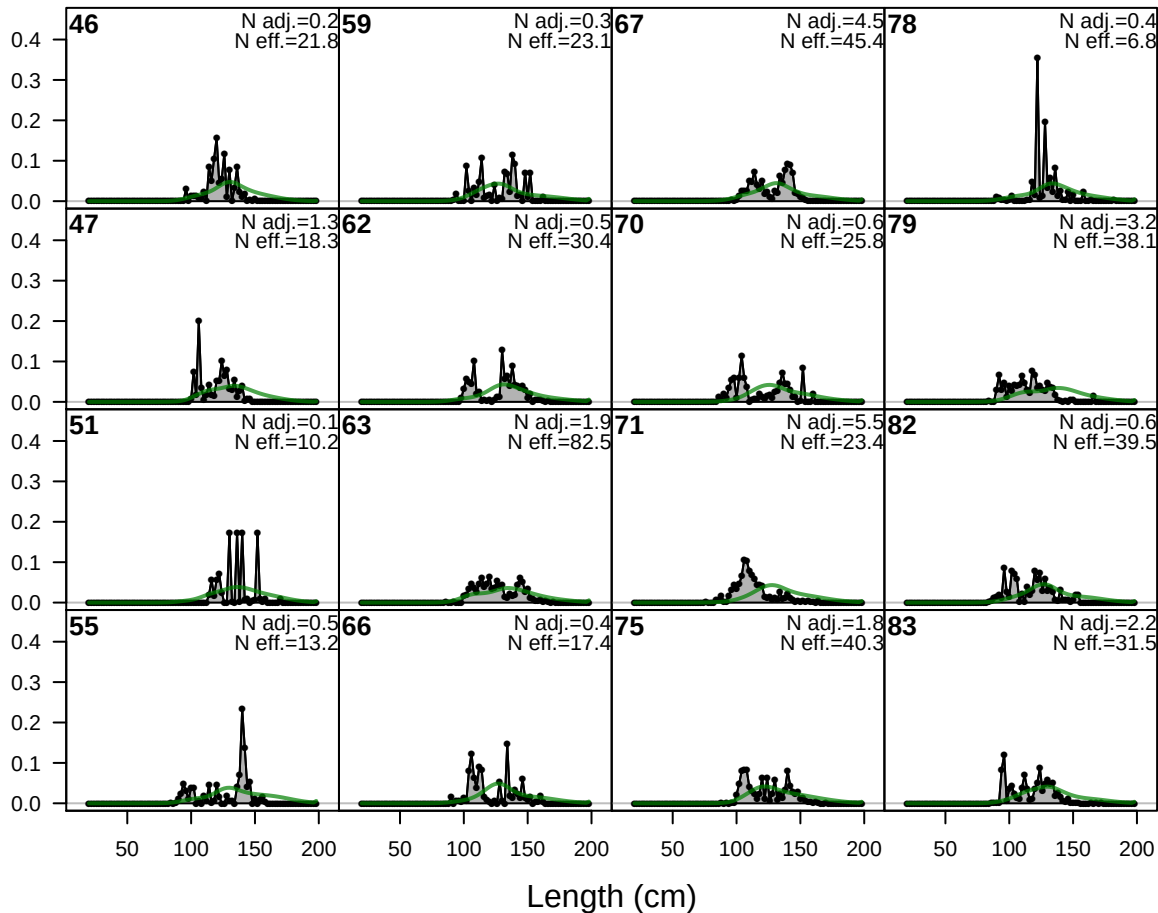


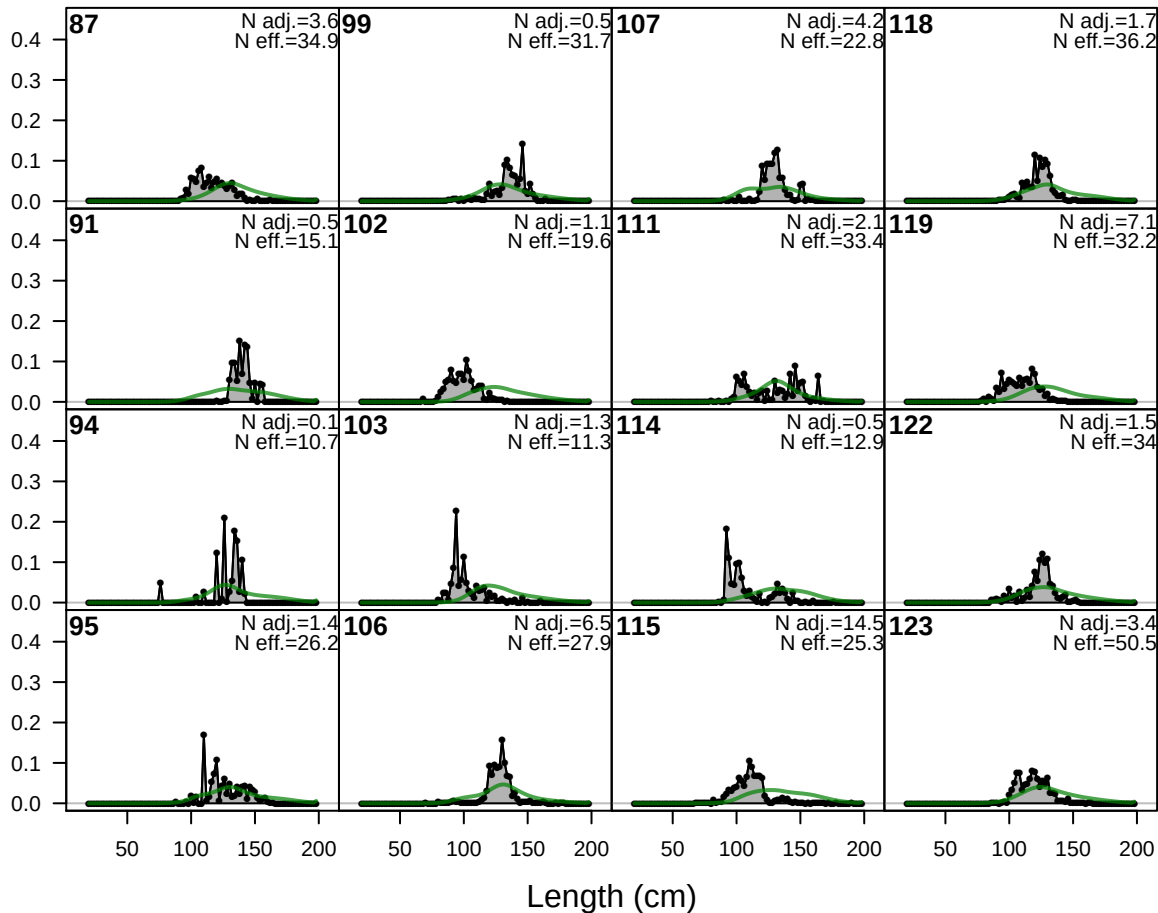
Effective sample size

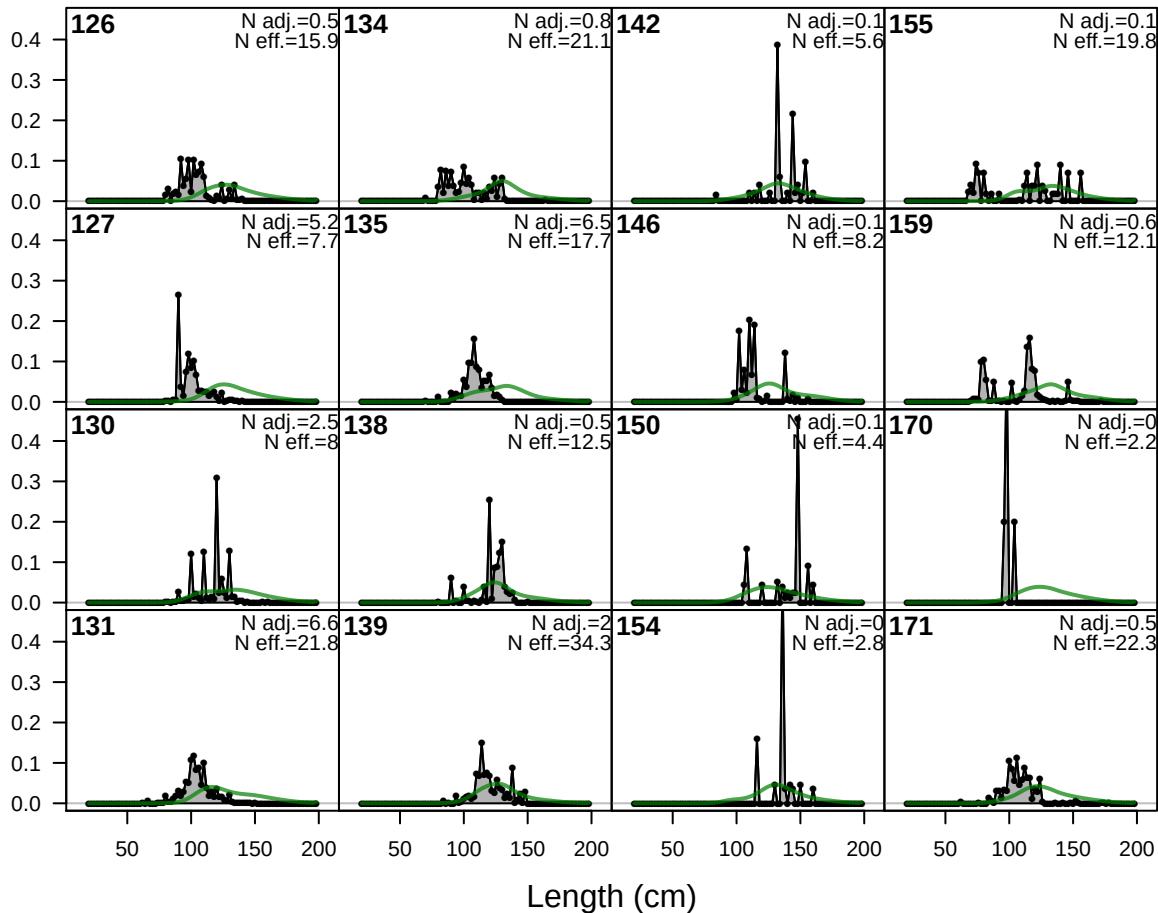


F33-LL_C_Q23n (whole catch)

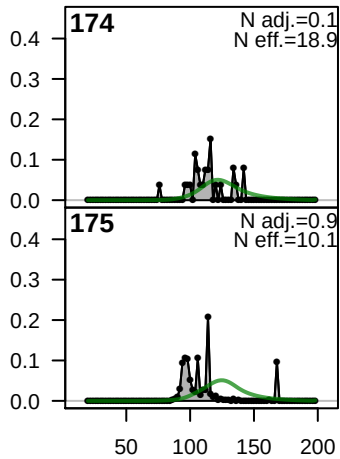




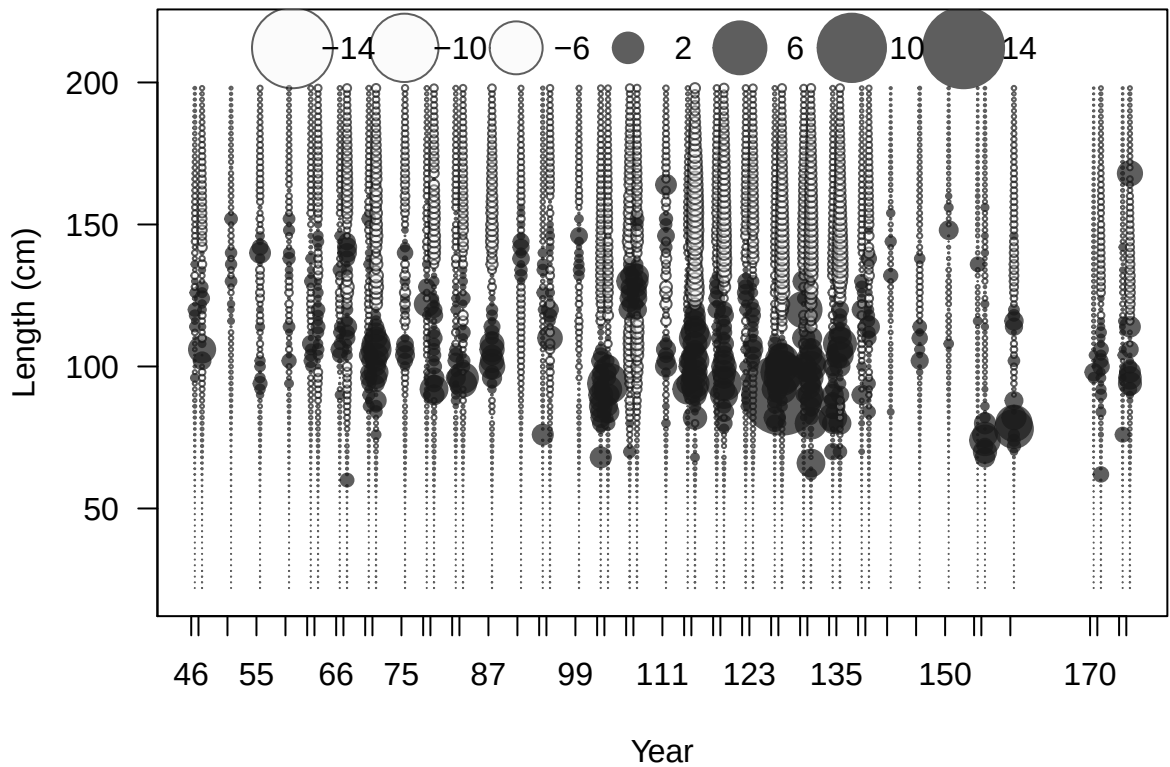




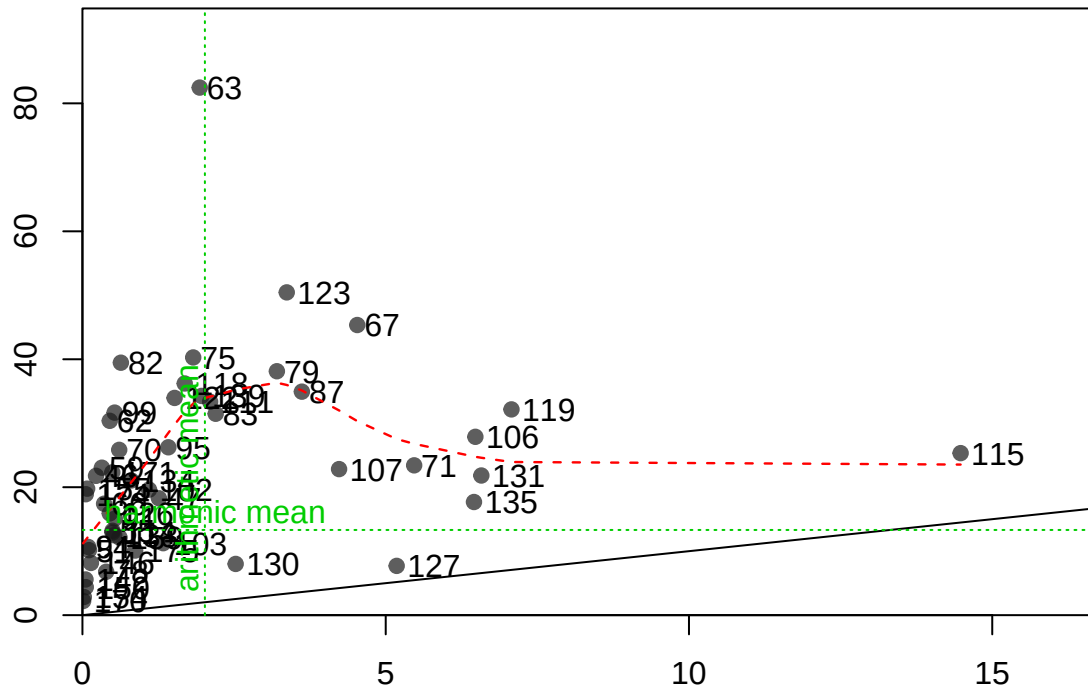
Proportion



Length (cm)

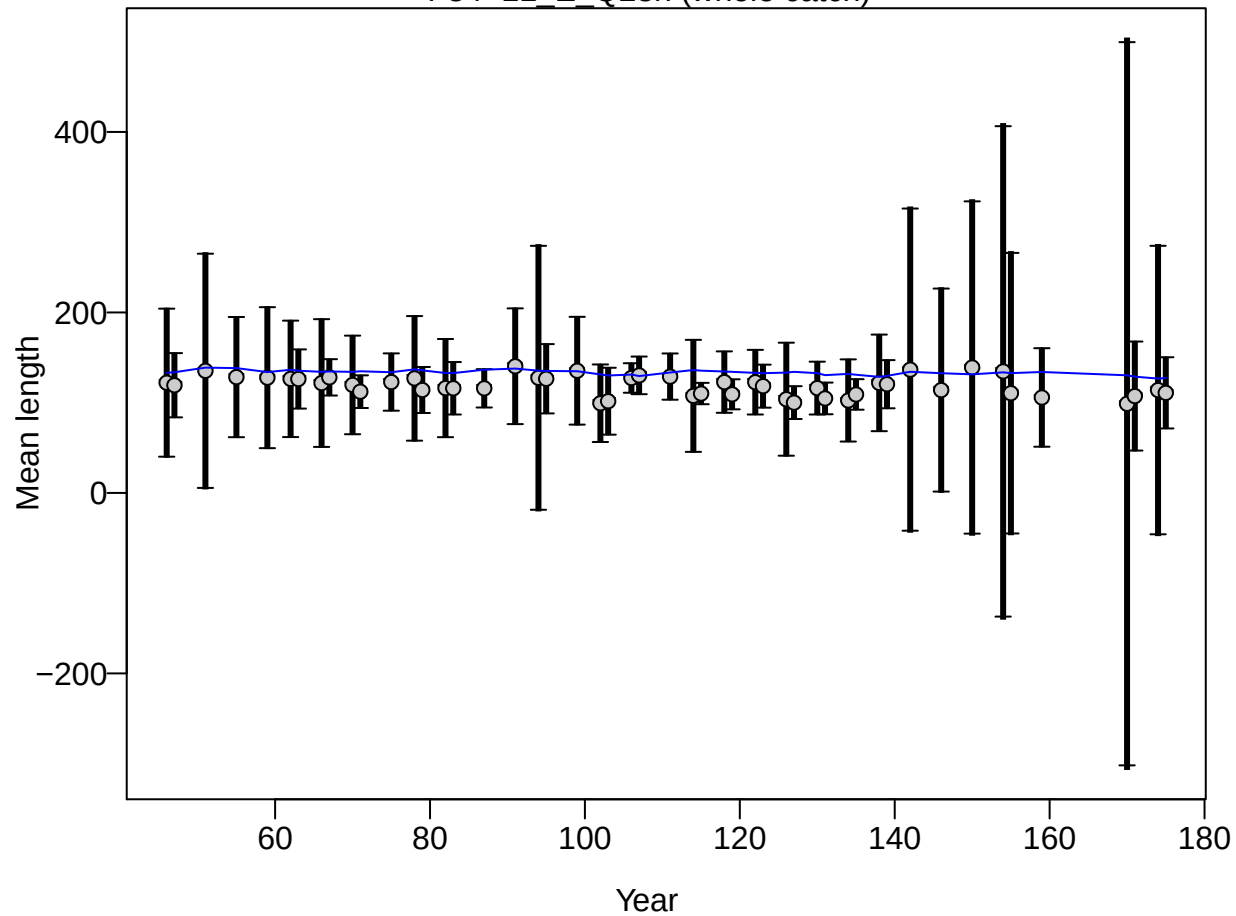


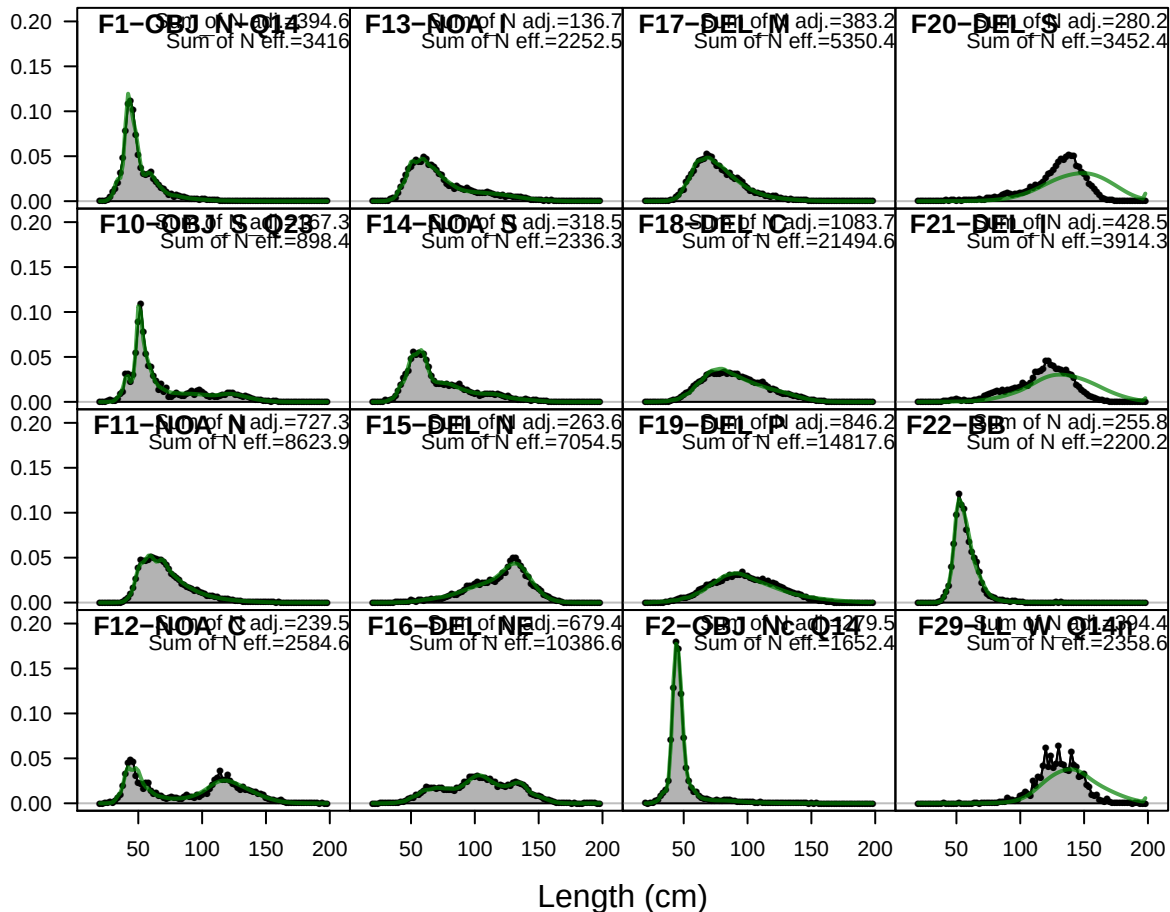
Effective sample size

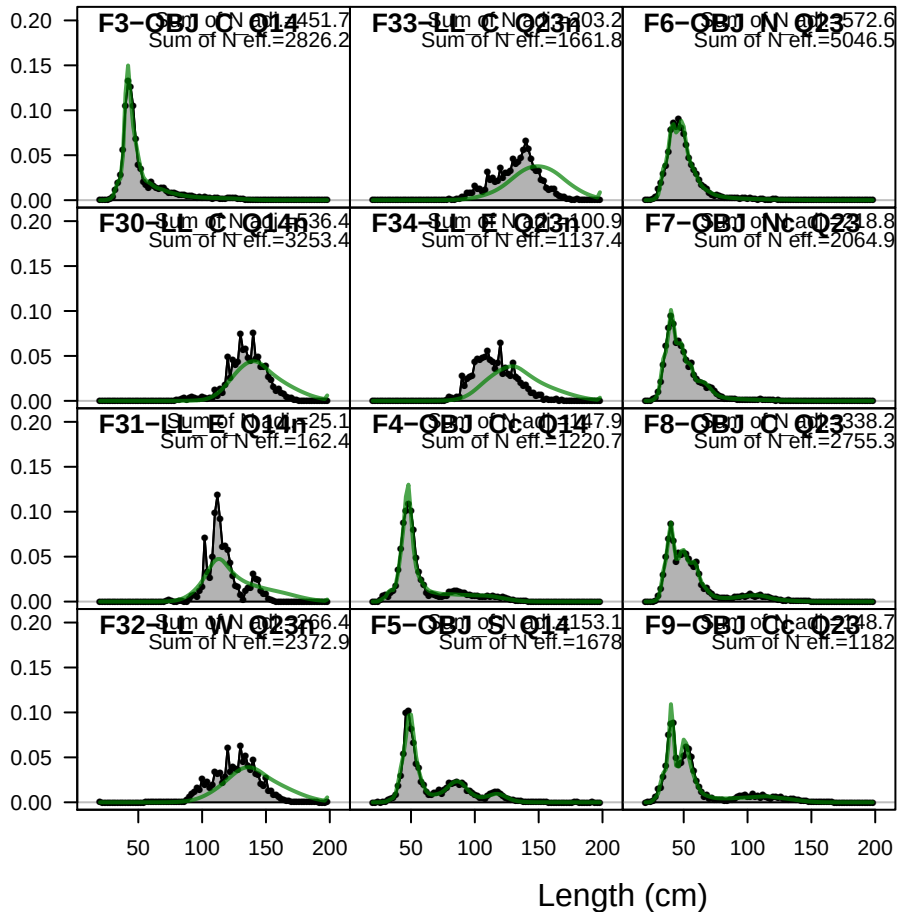


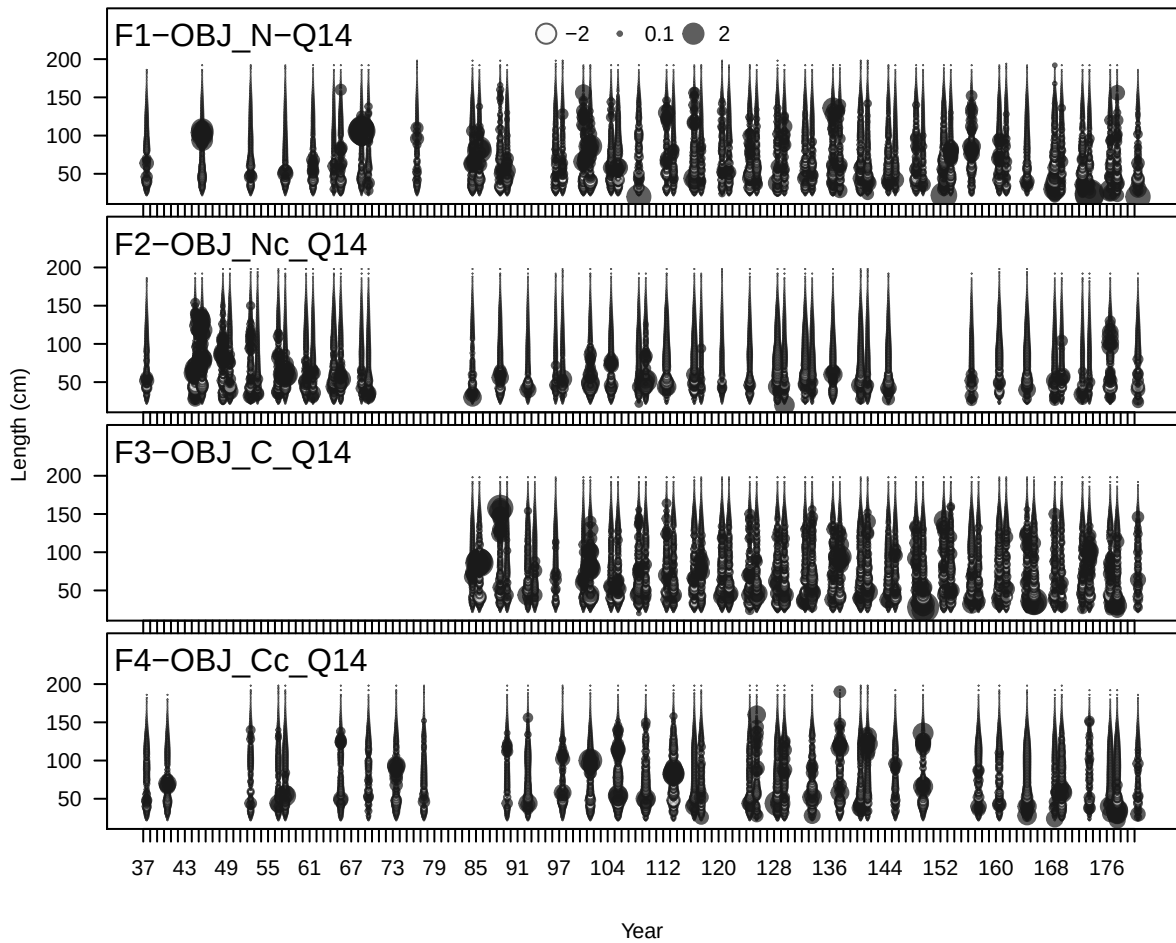
Observed sample size

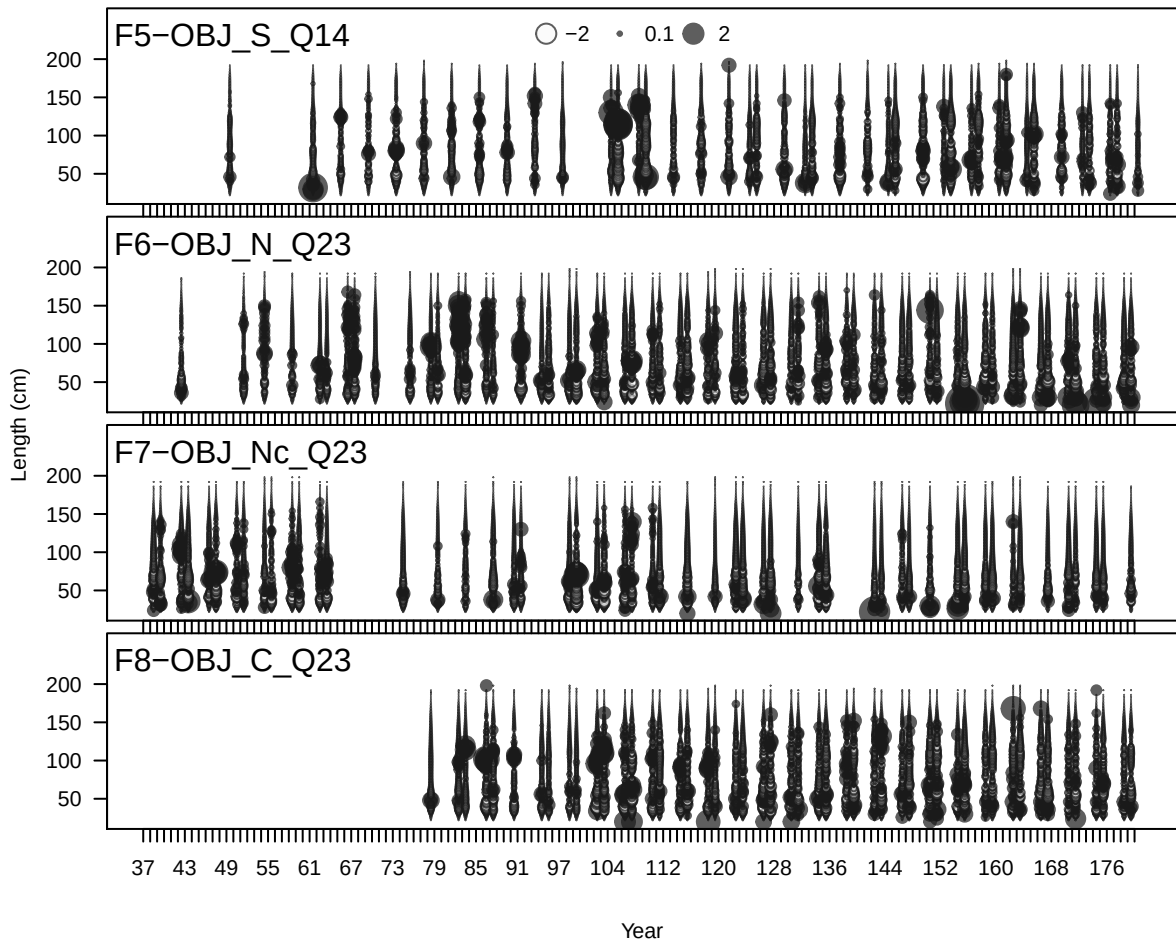
F34-LL E_Q23n (whole catch)

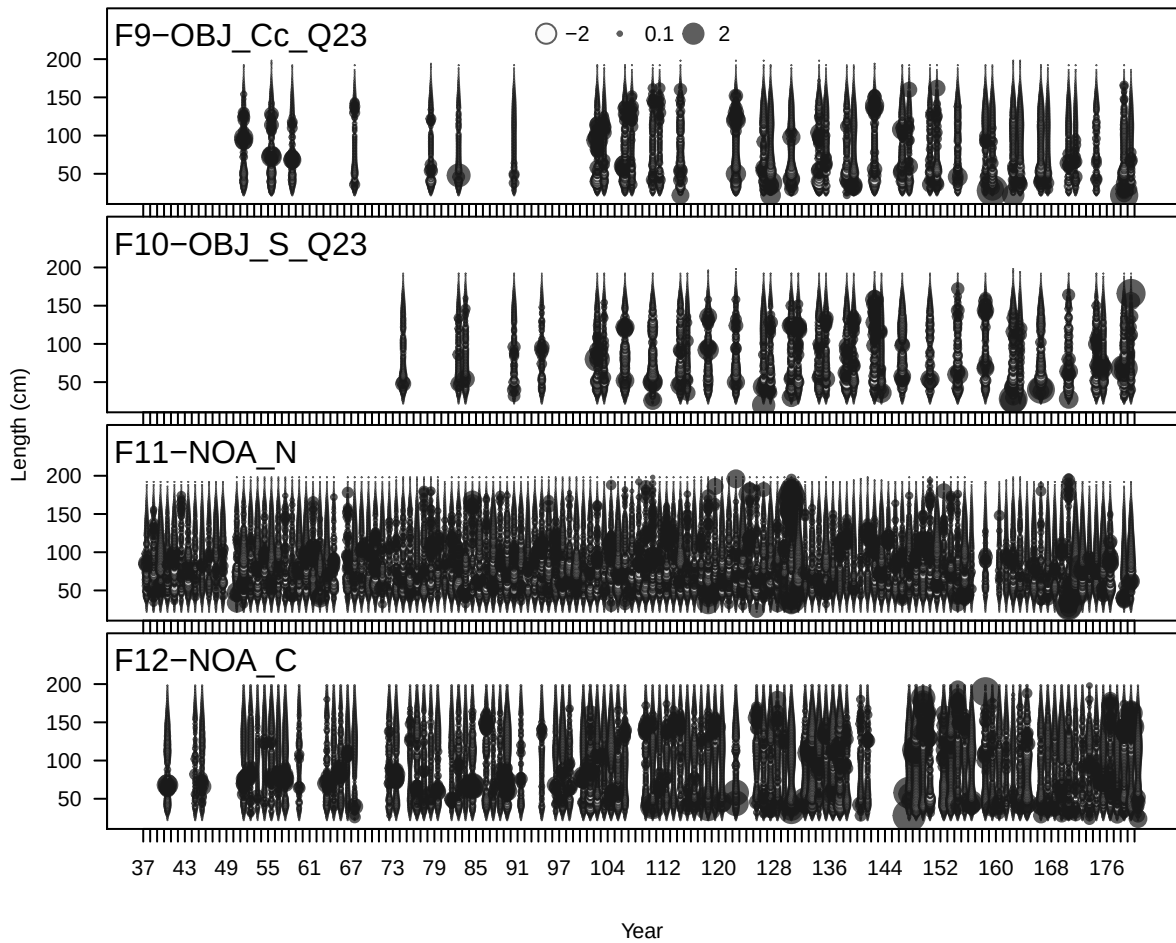


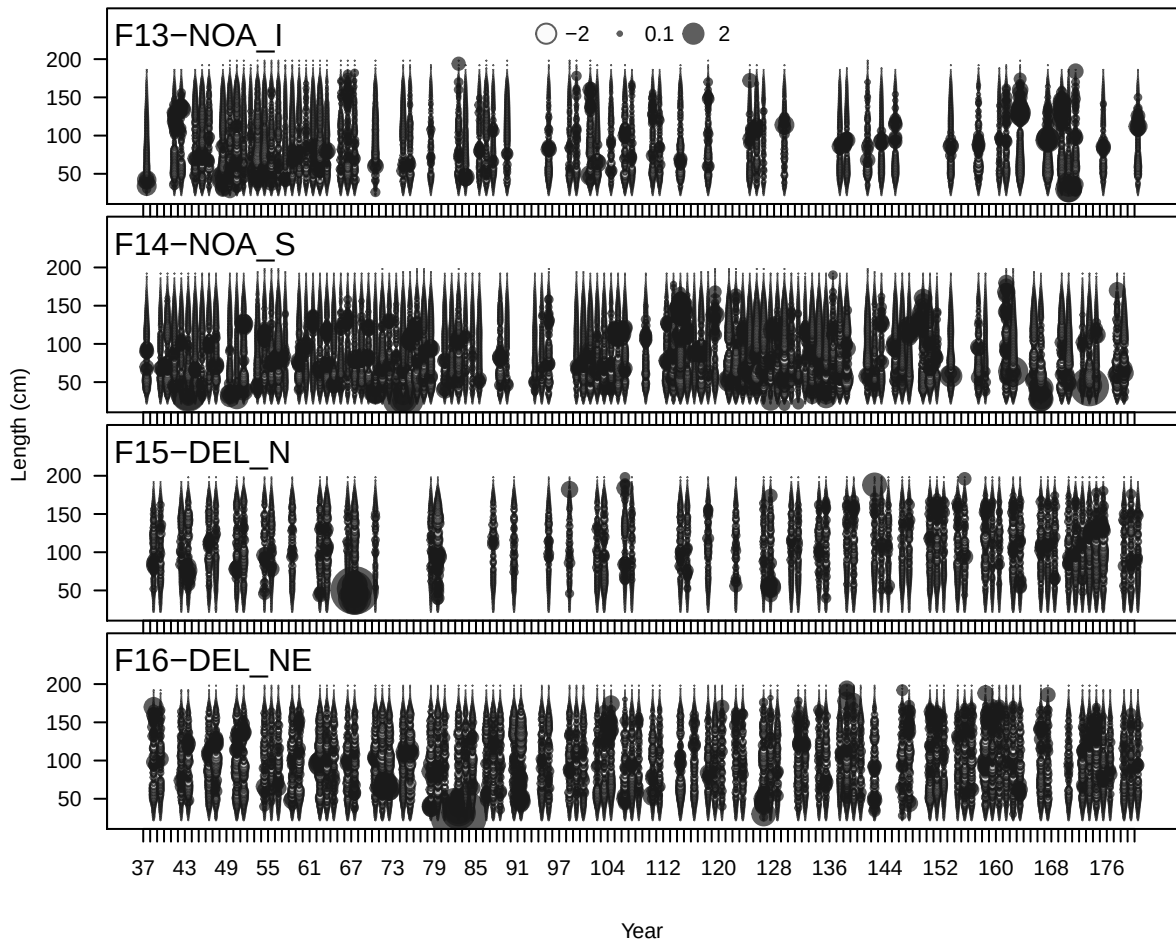


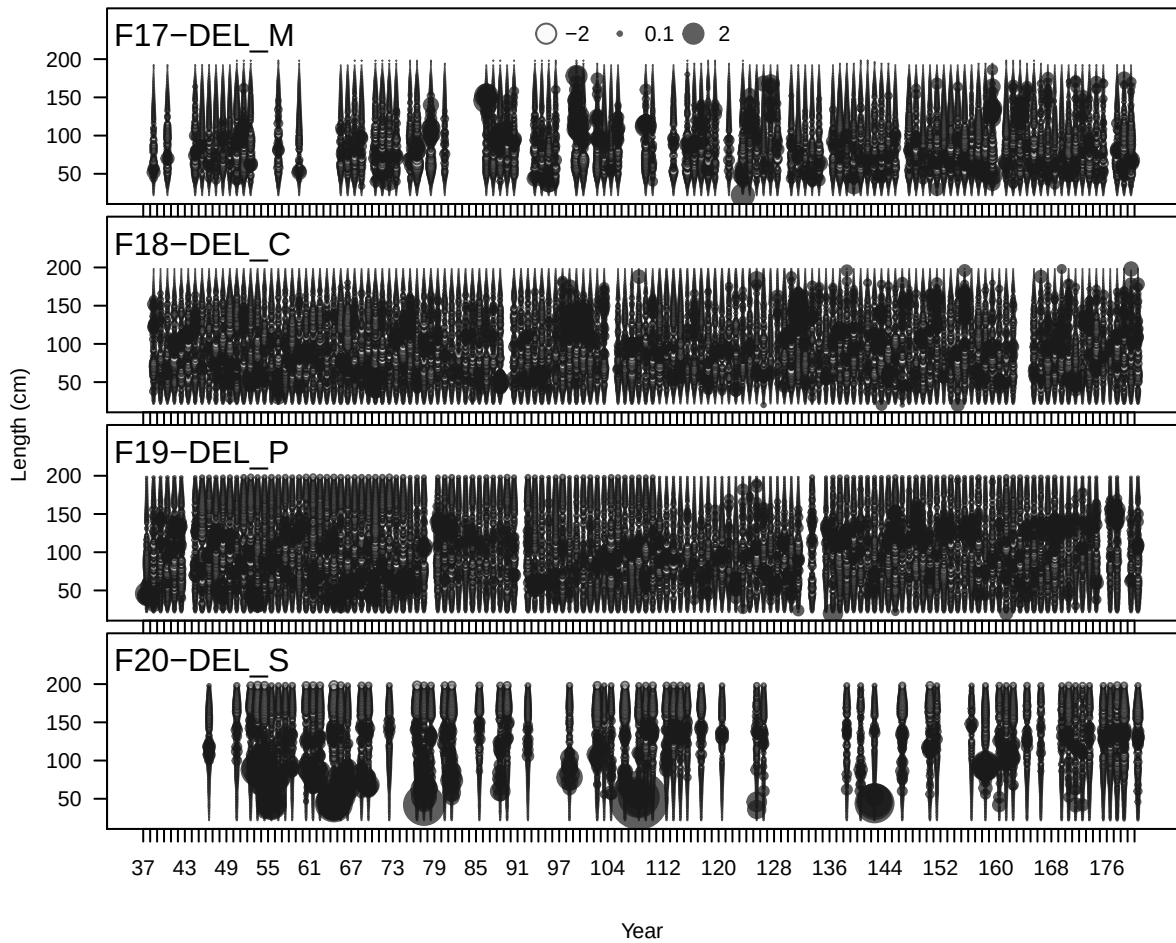


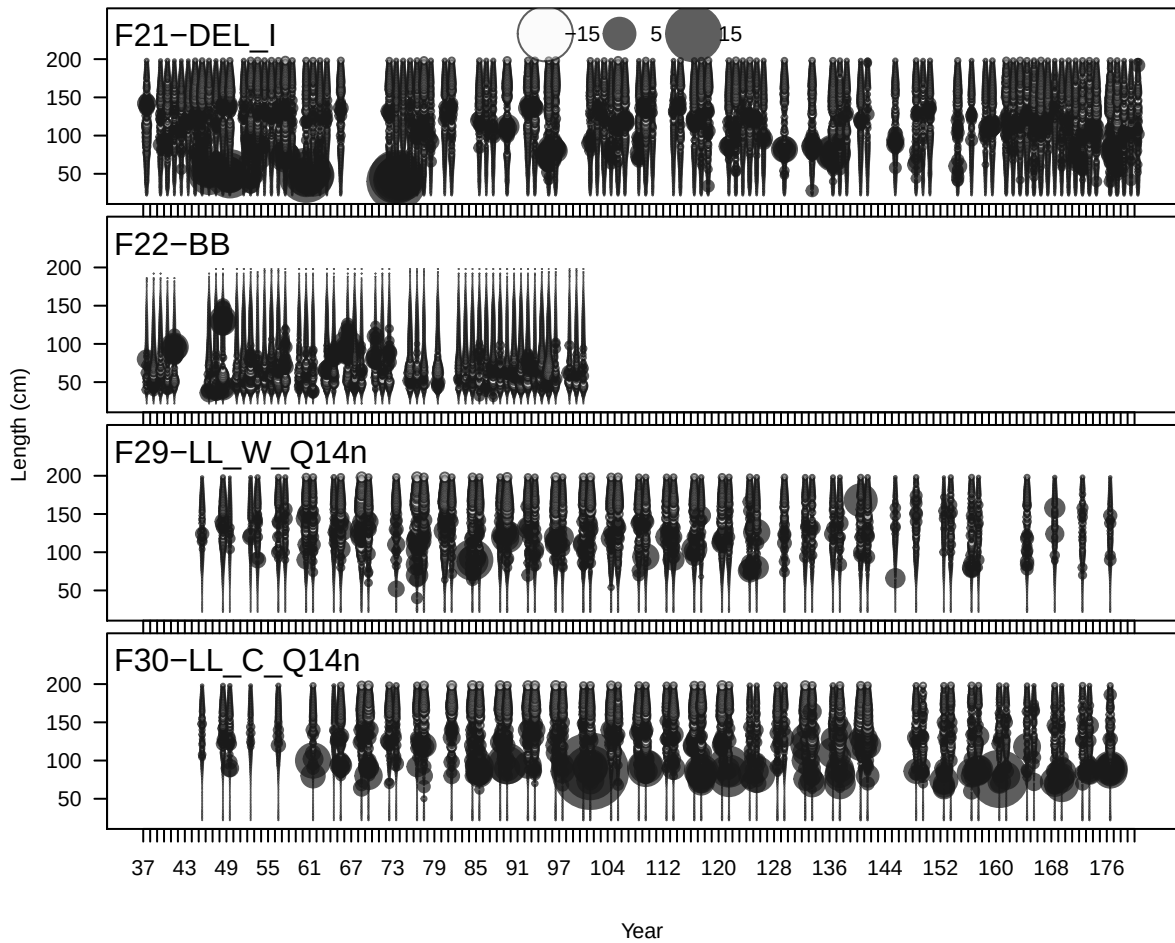


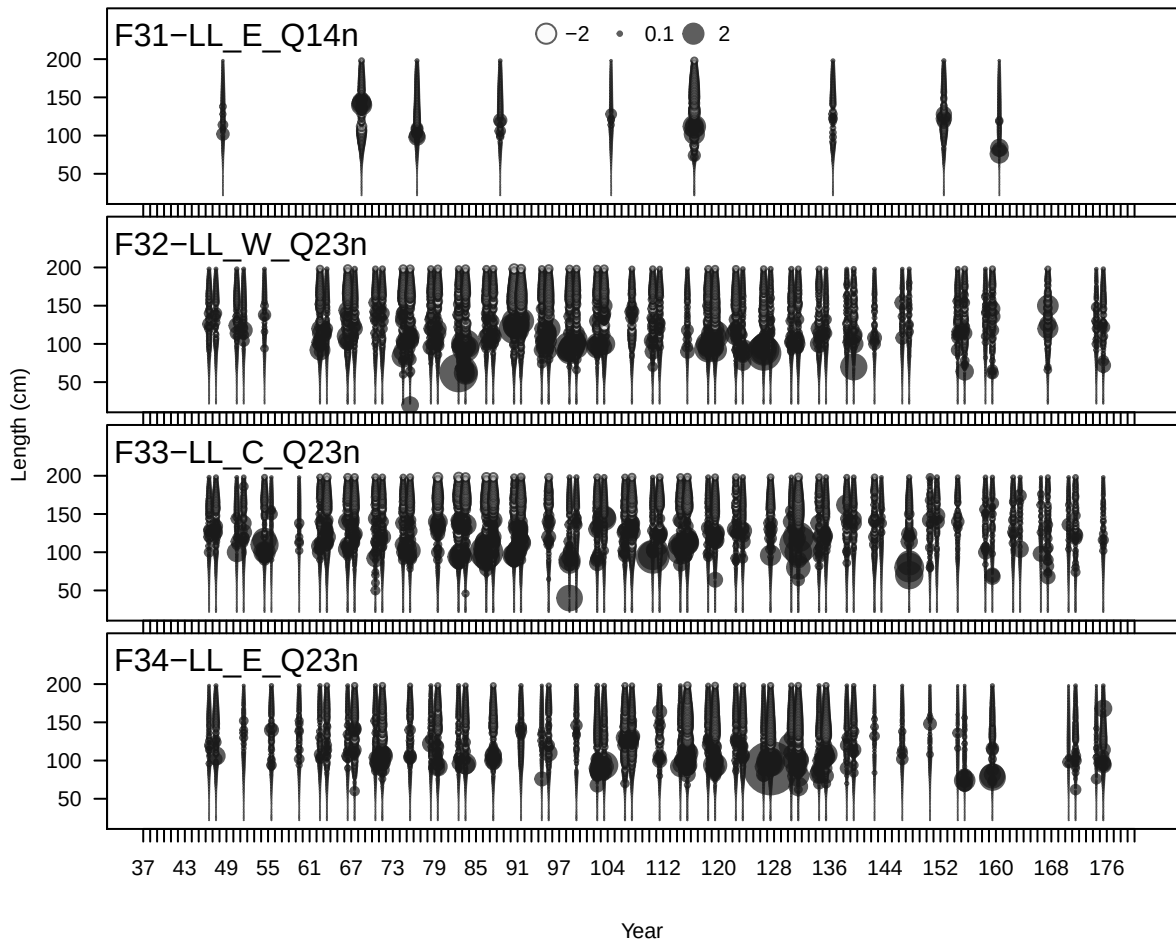


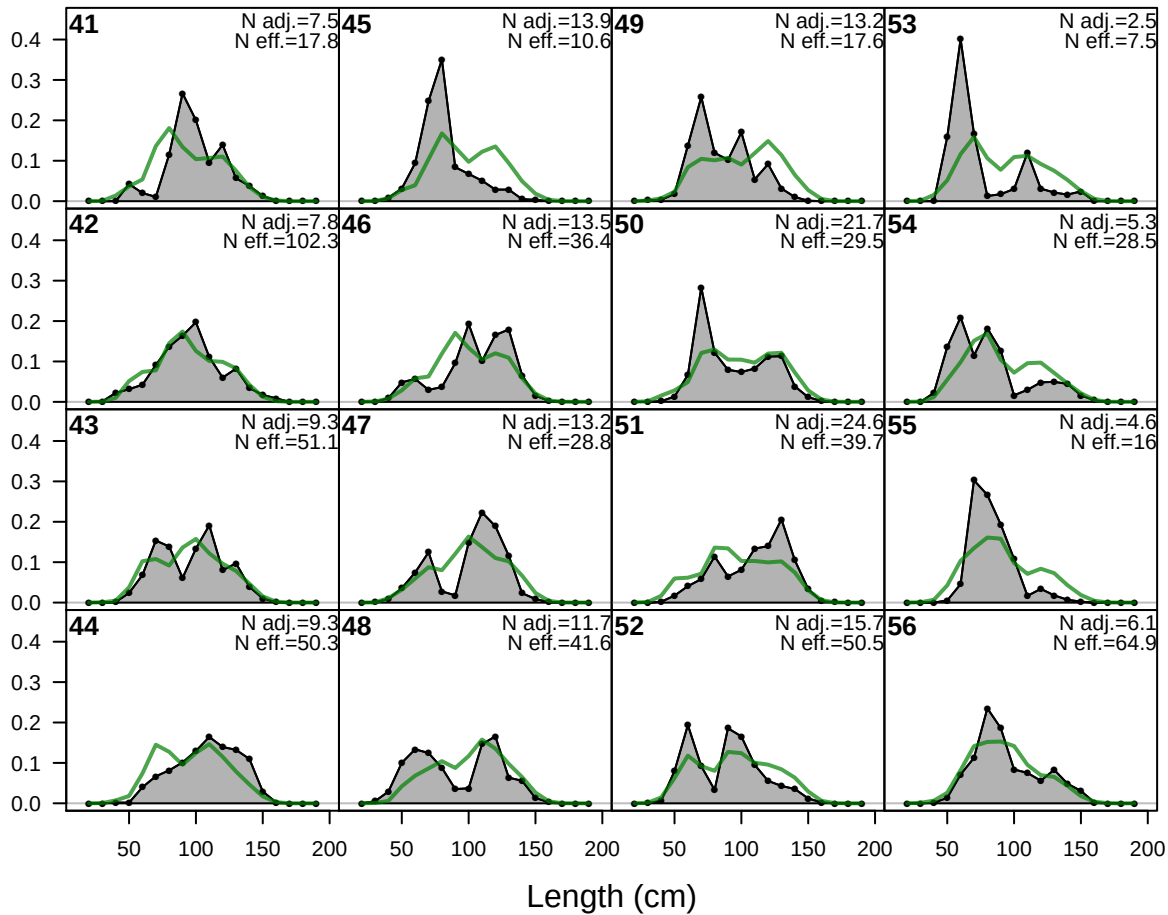


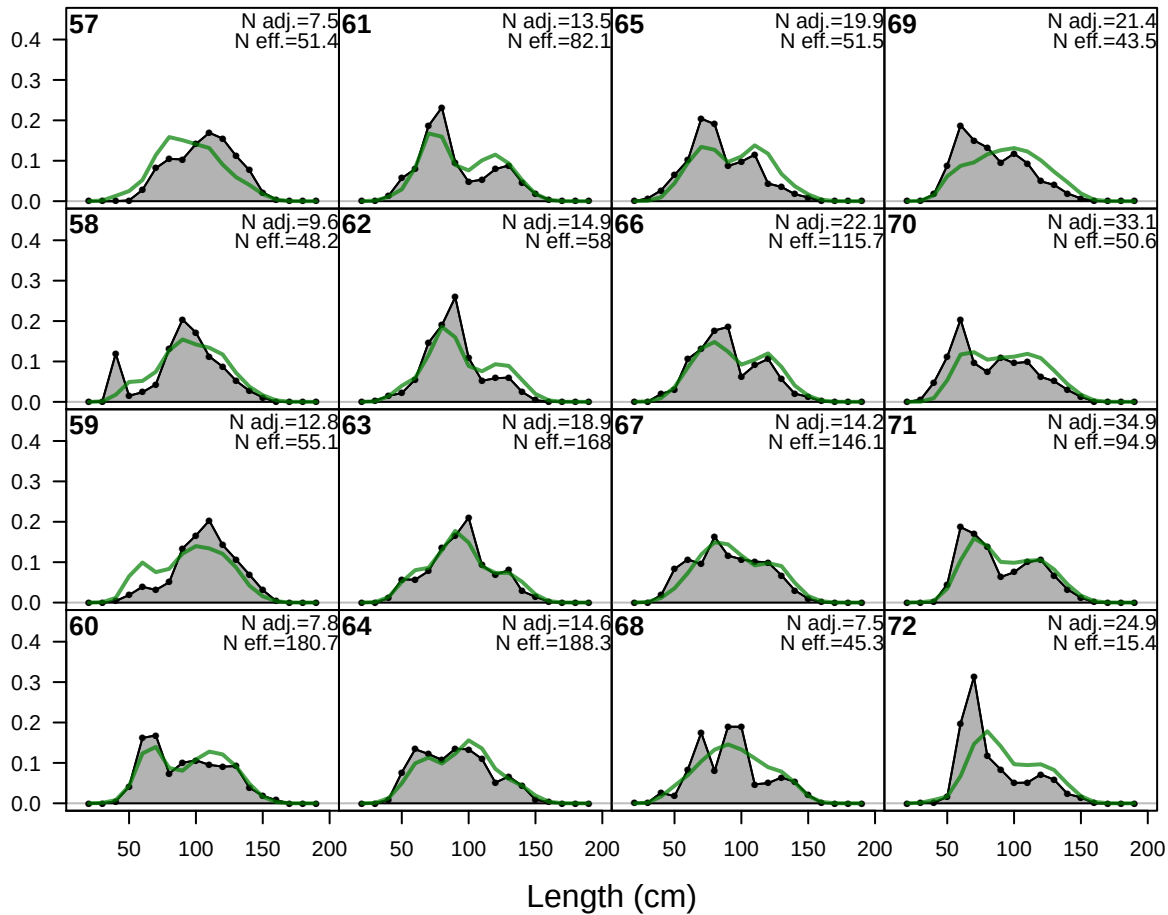


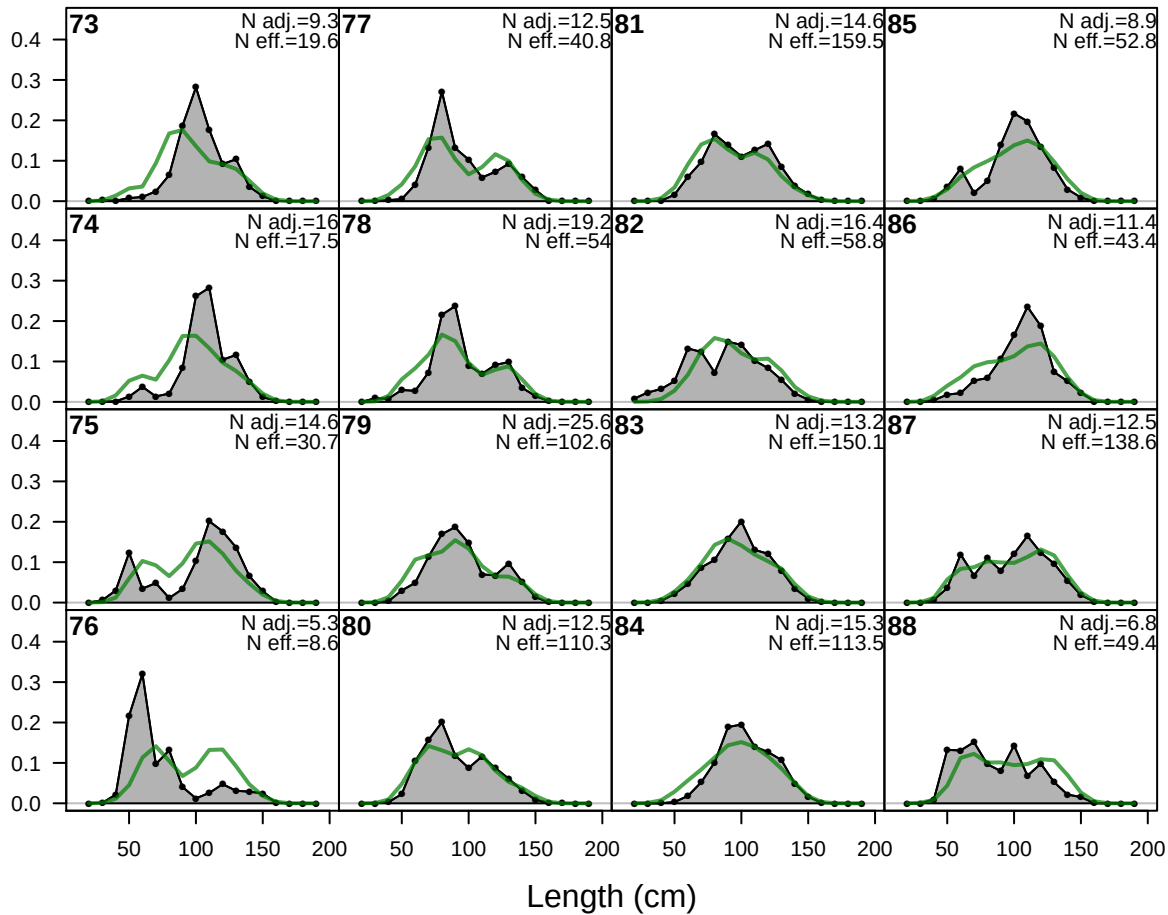


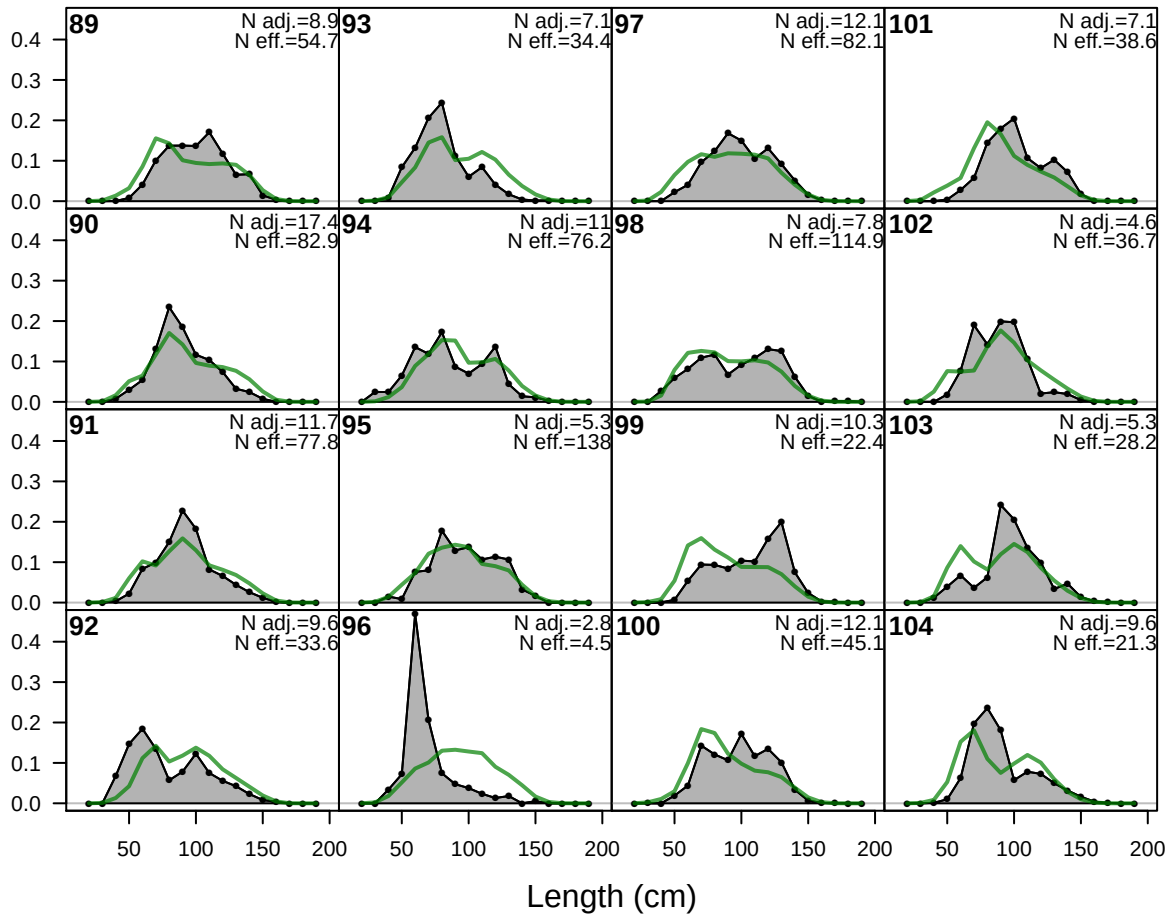


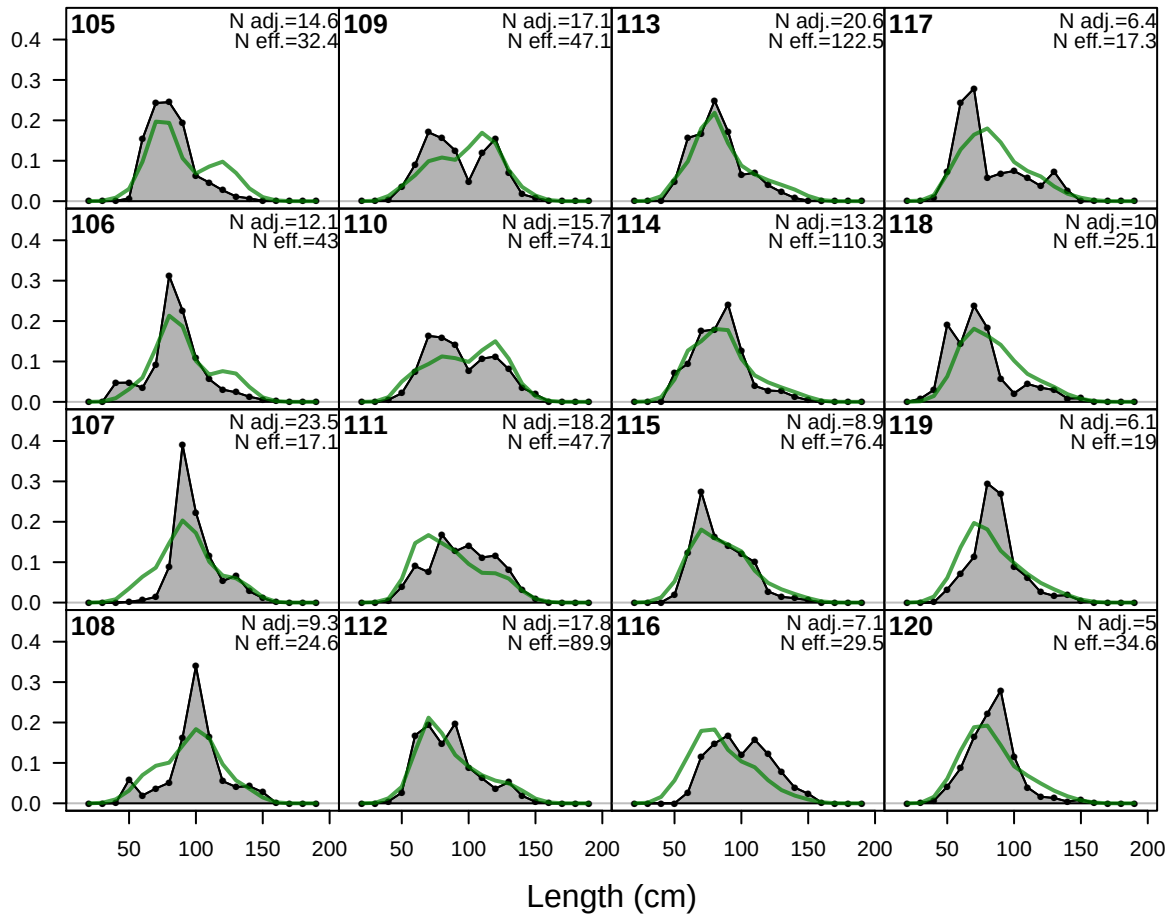


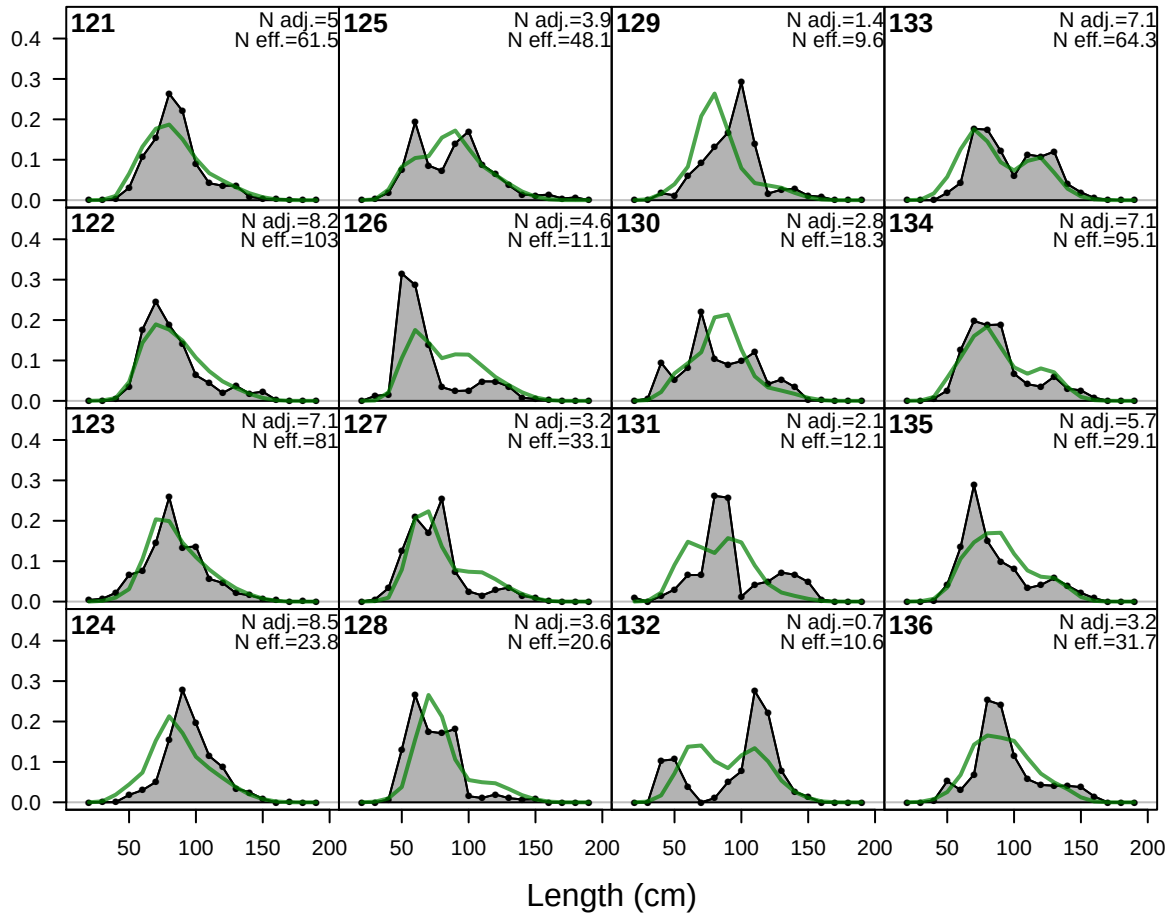


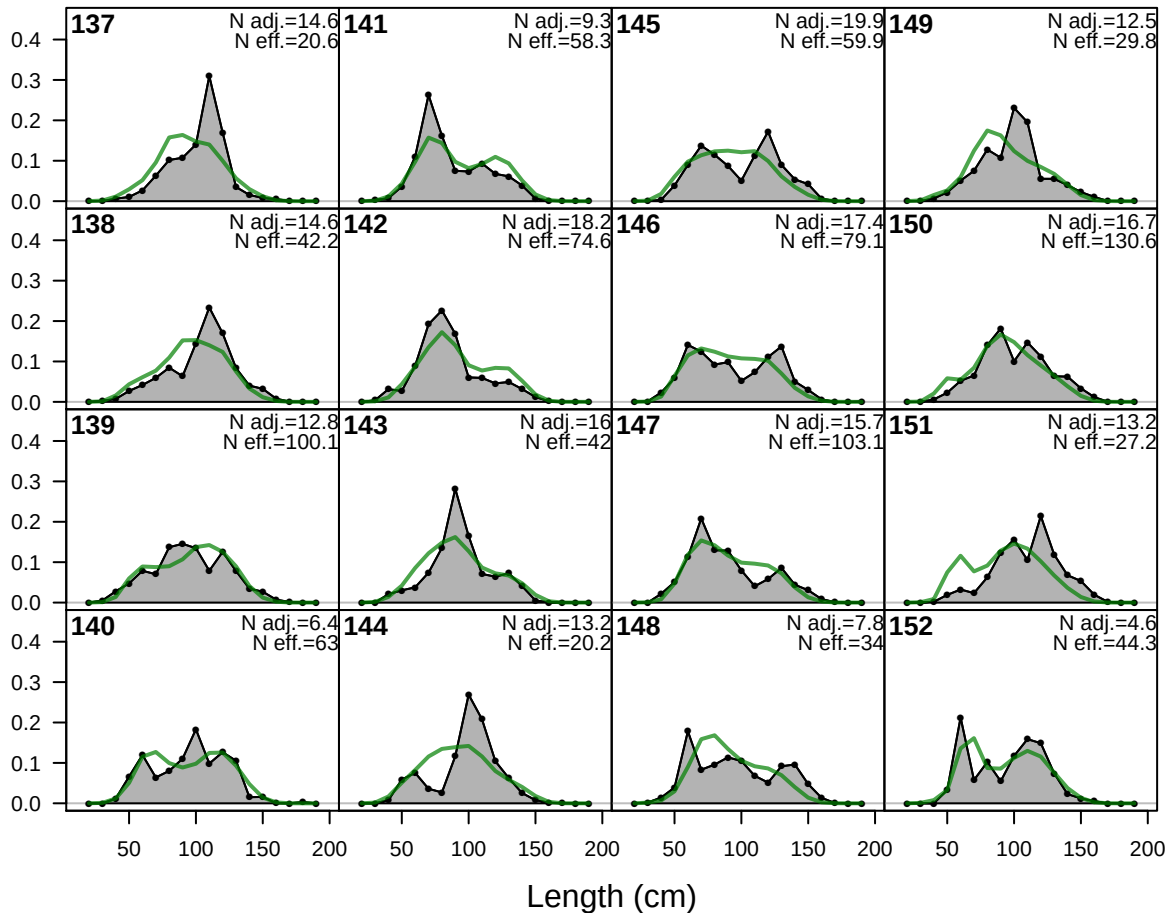


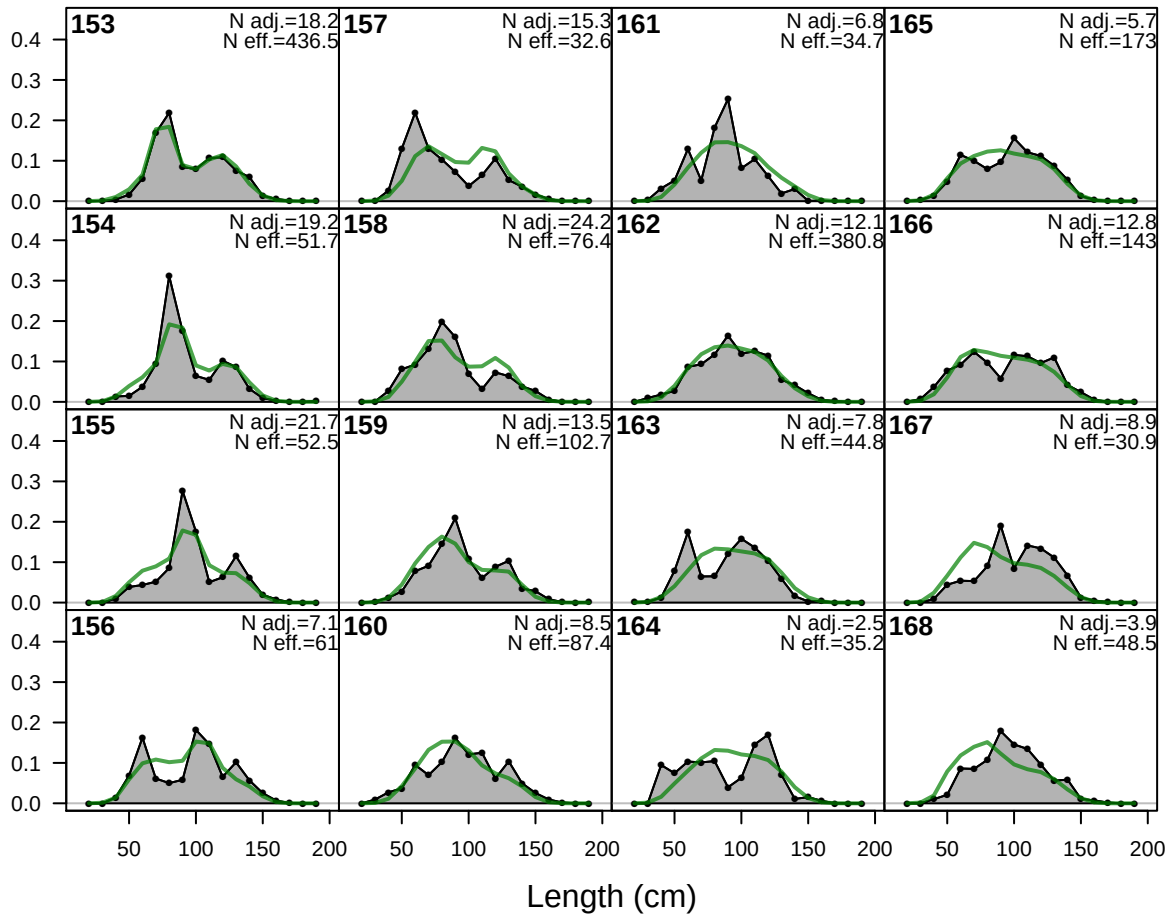


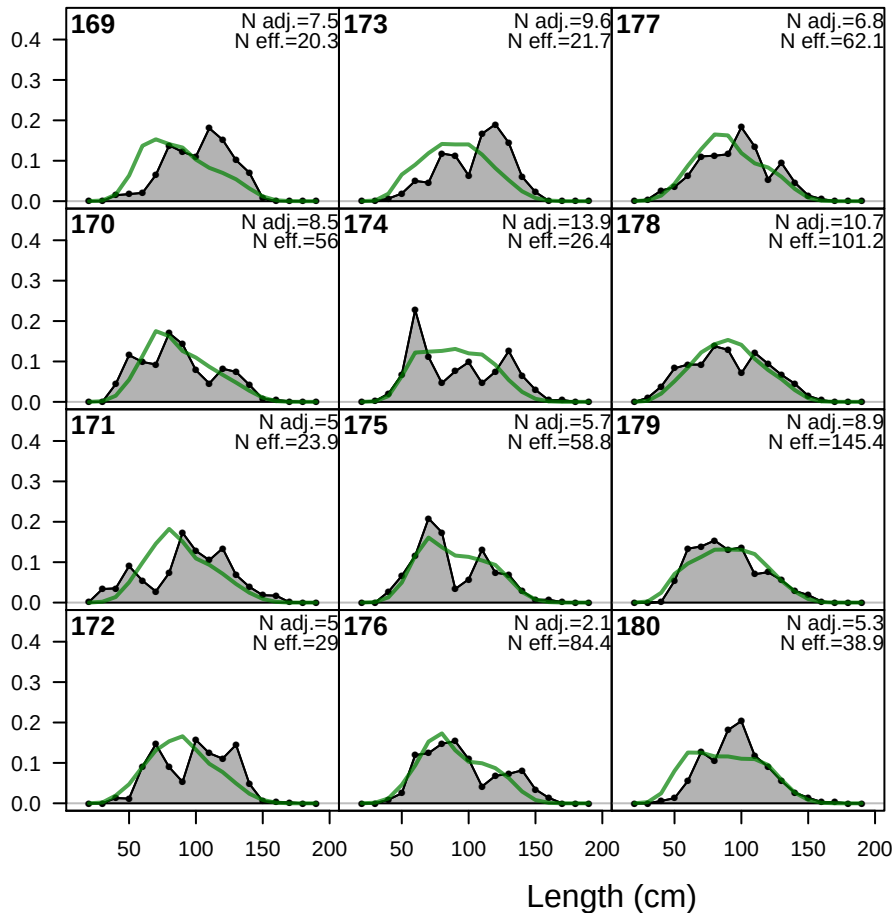


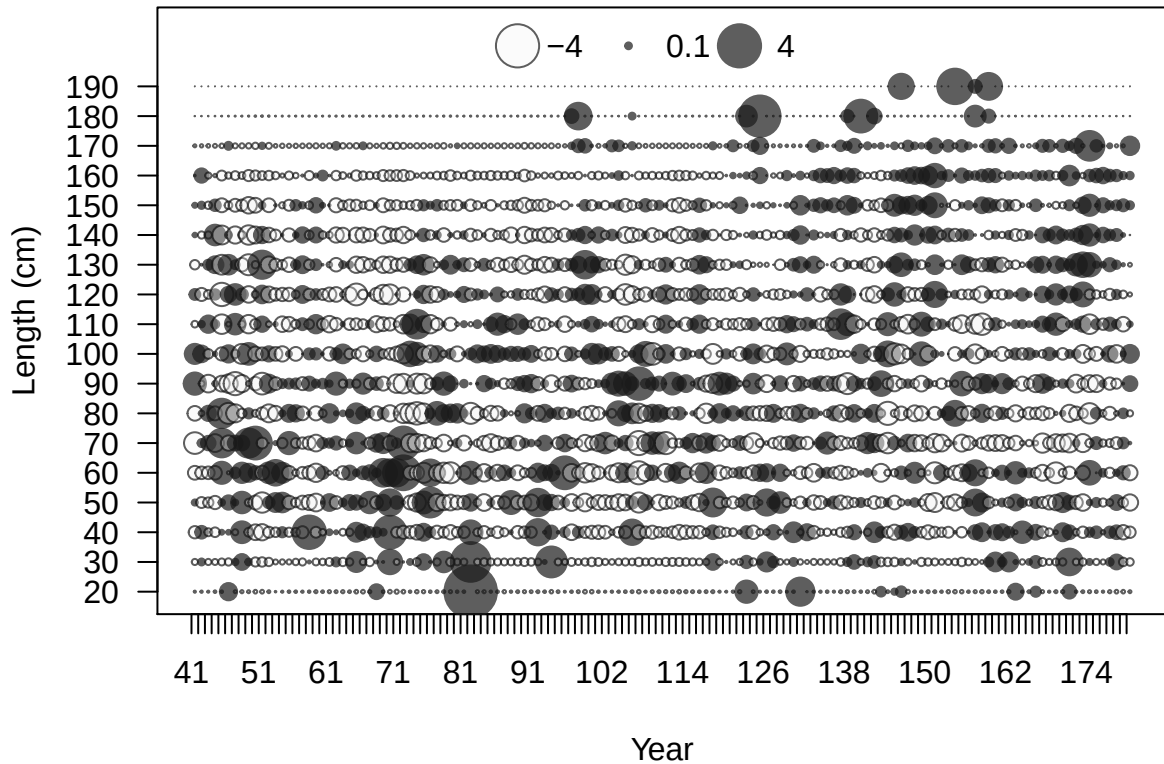


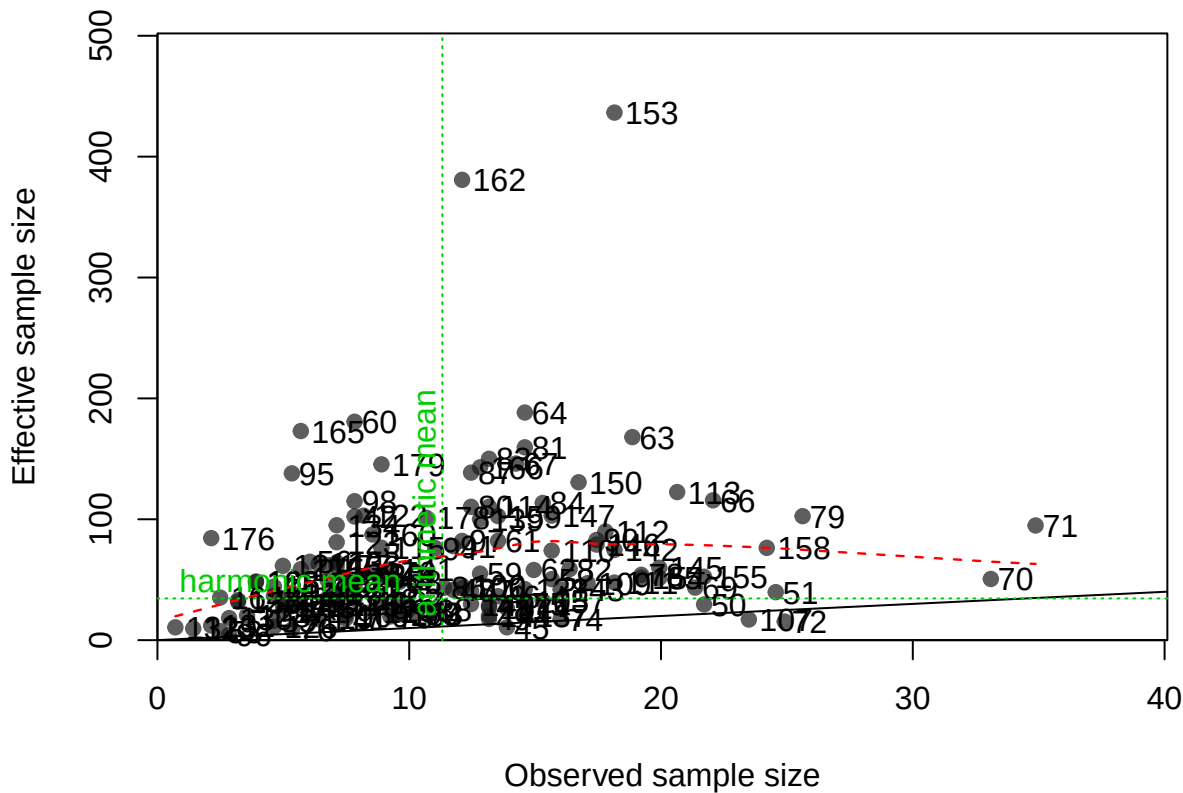




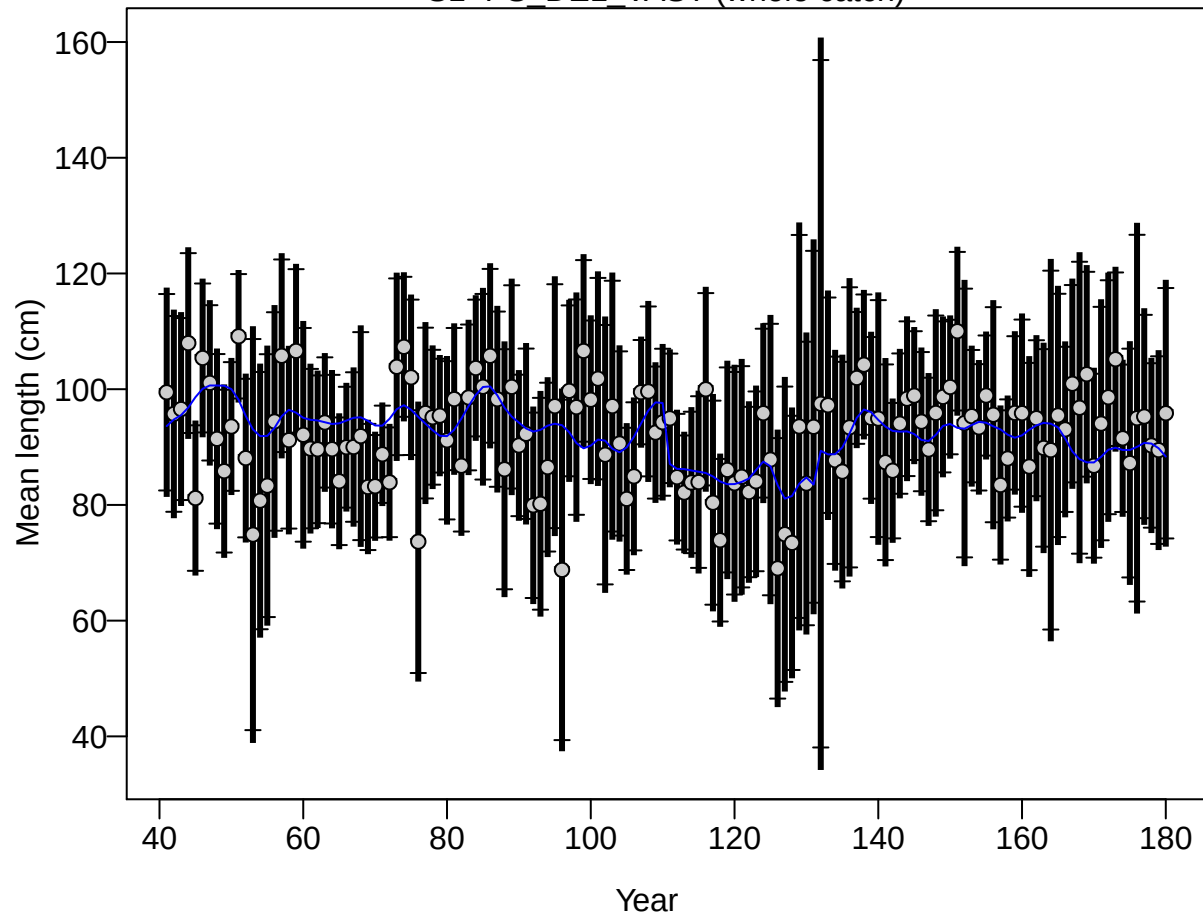






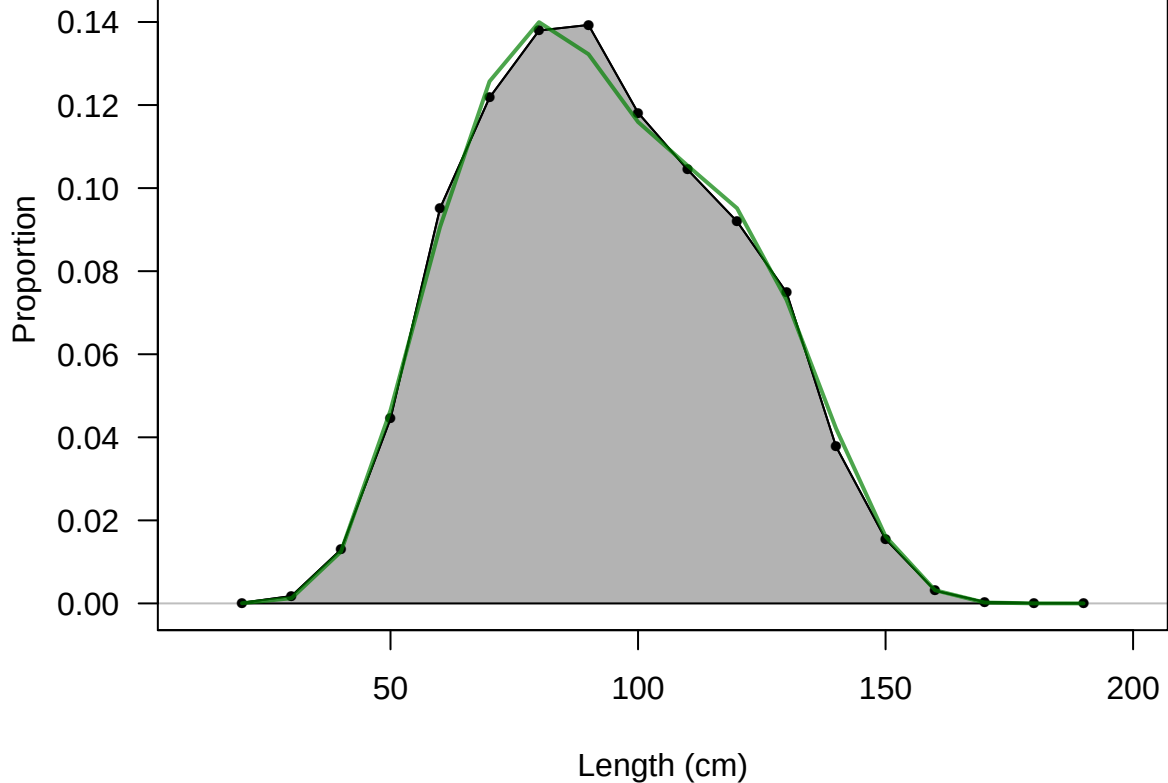


S1-PS_DEL_VAST (whole catch)

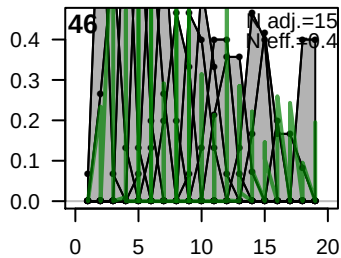


S1-PS_DEL_VAST

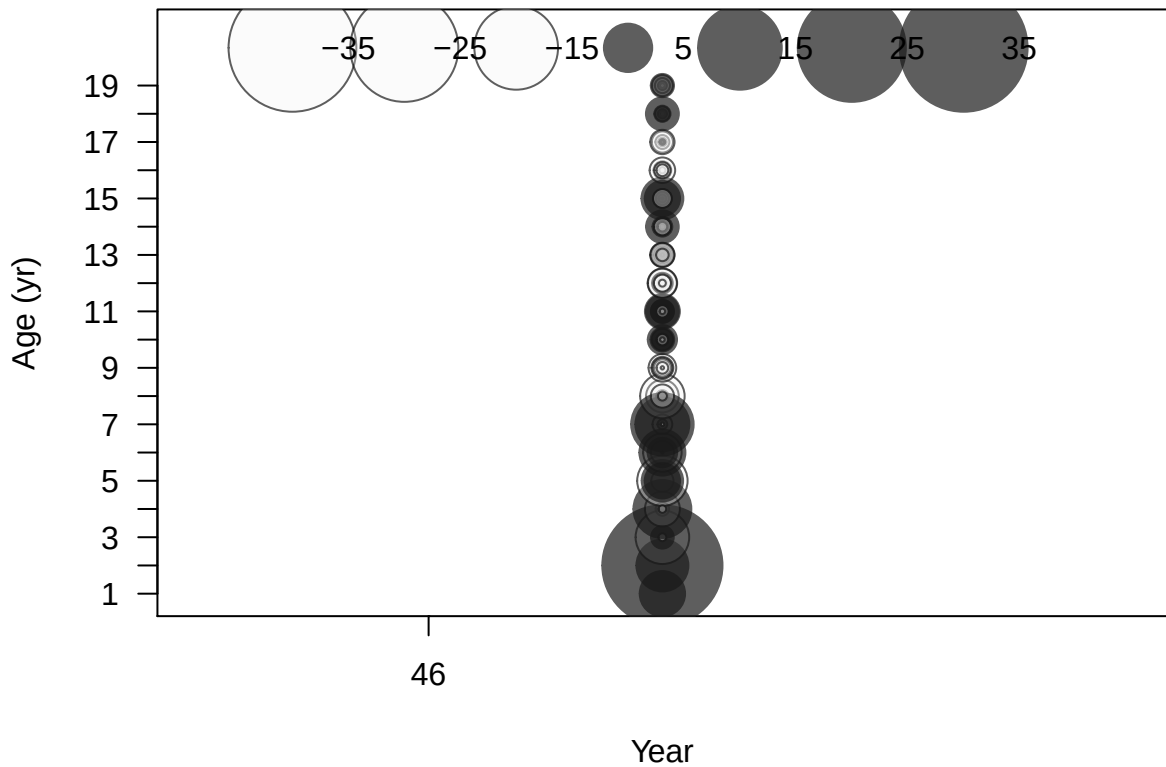
Sum of N adj.=1584.1
Sum of N eff.=8881.6

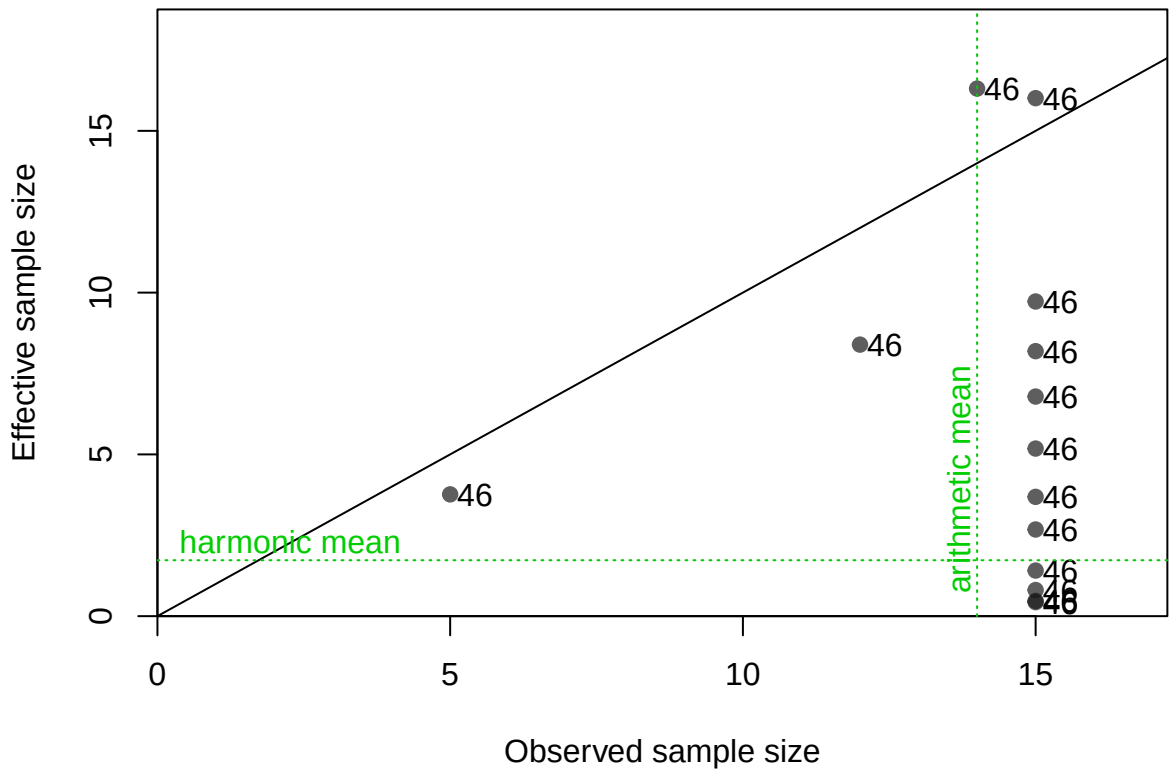


Proportion



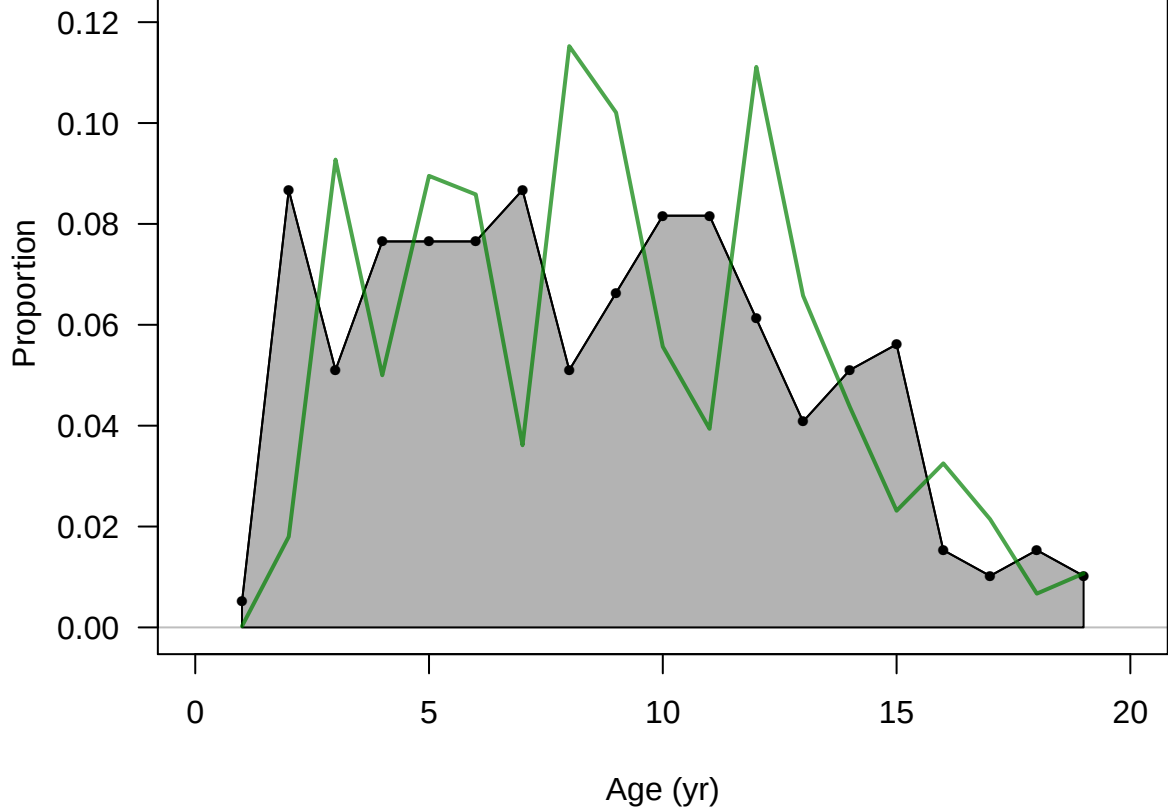
Age (yr)





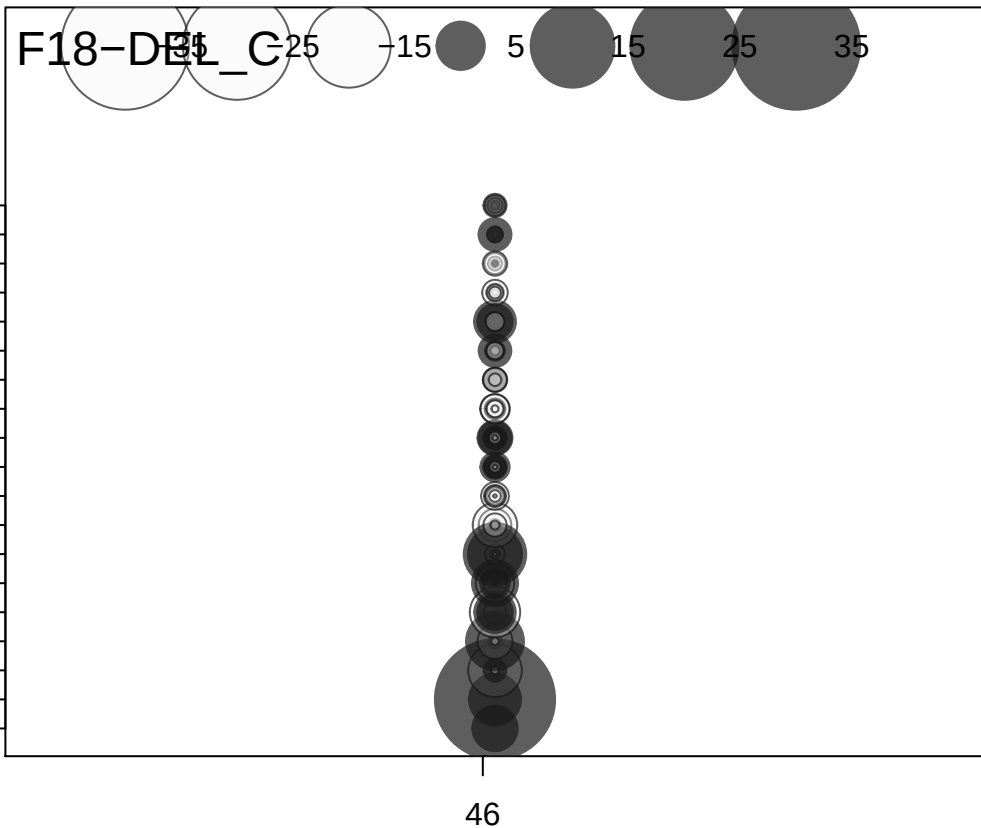
F18-DEL_C

Sum of N adj.=196
Sum of N eff.=83.8

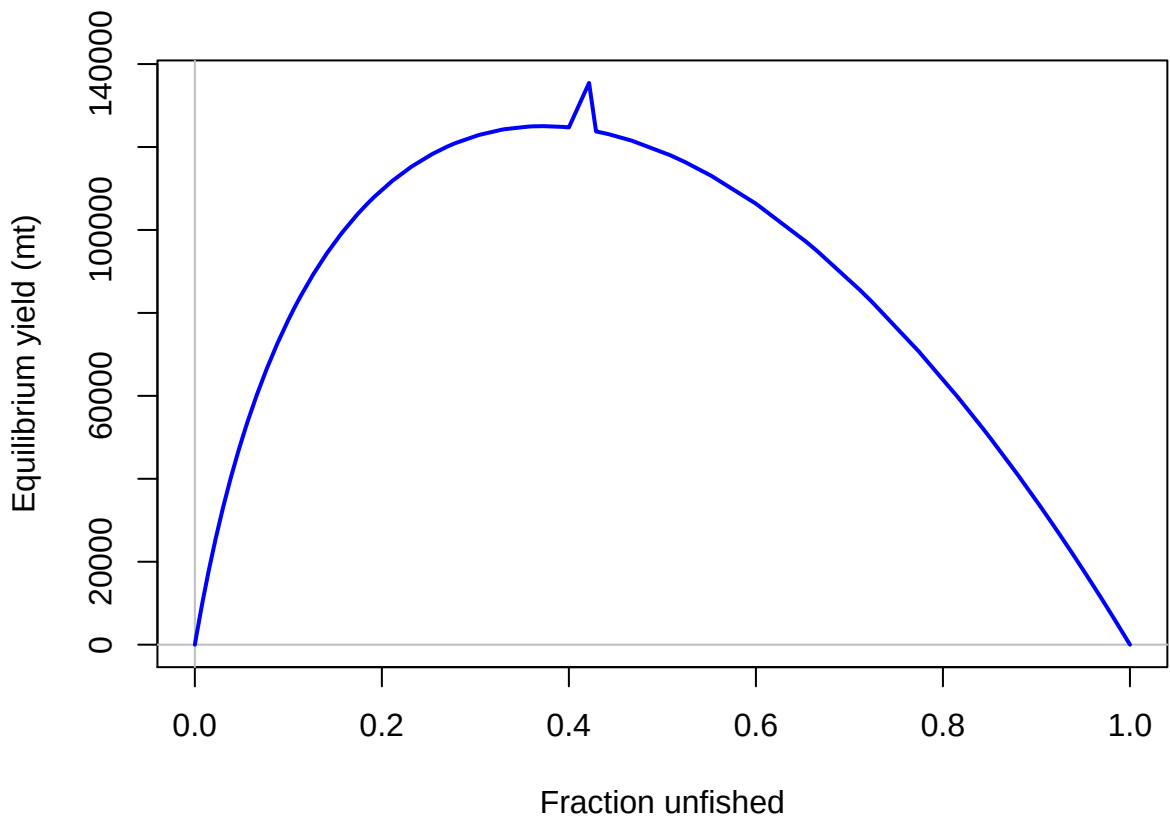


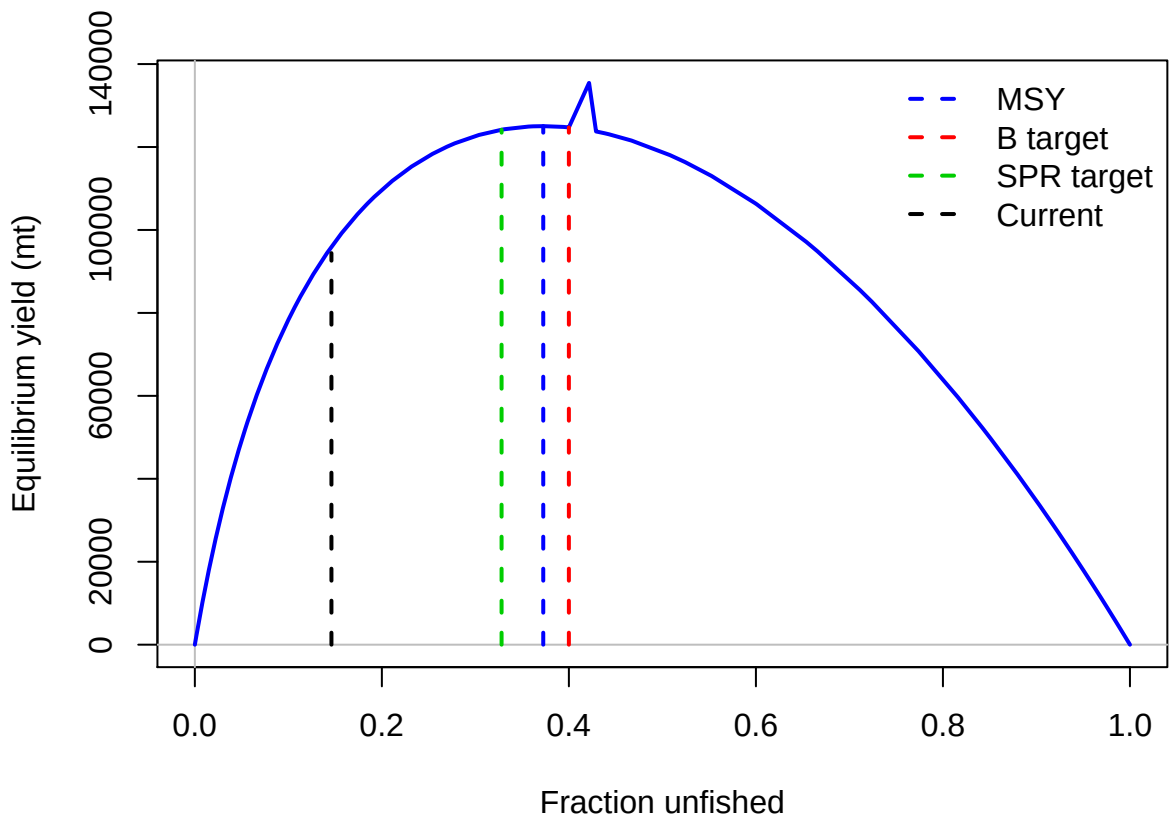
Age (yr)

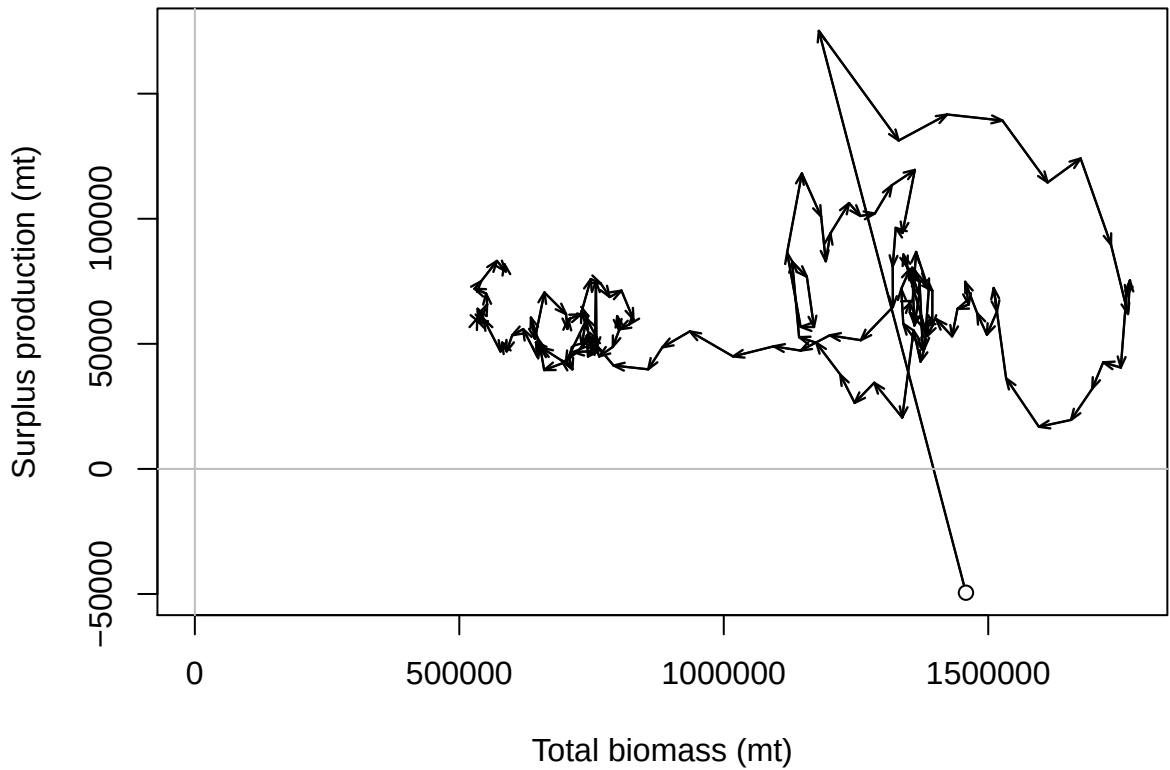
19
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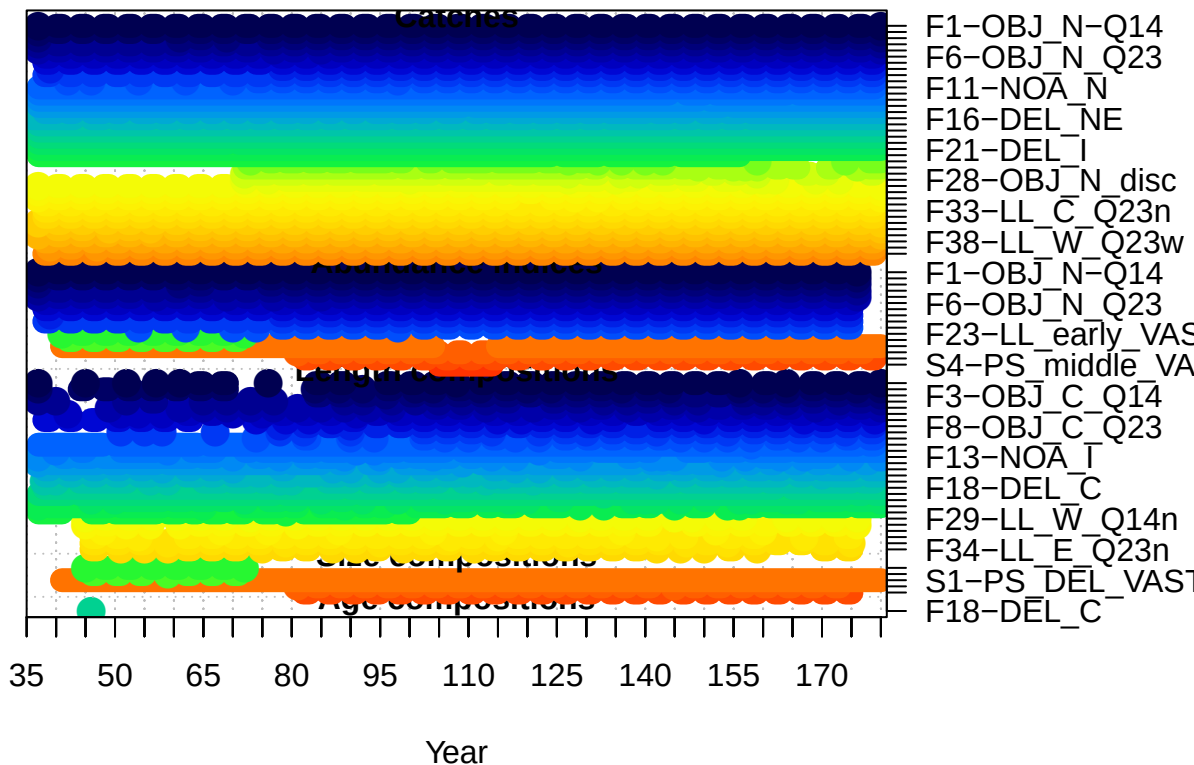


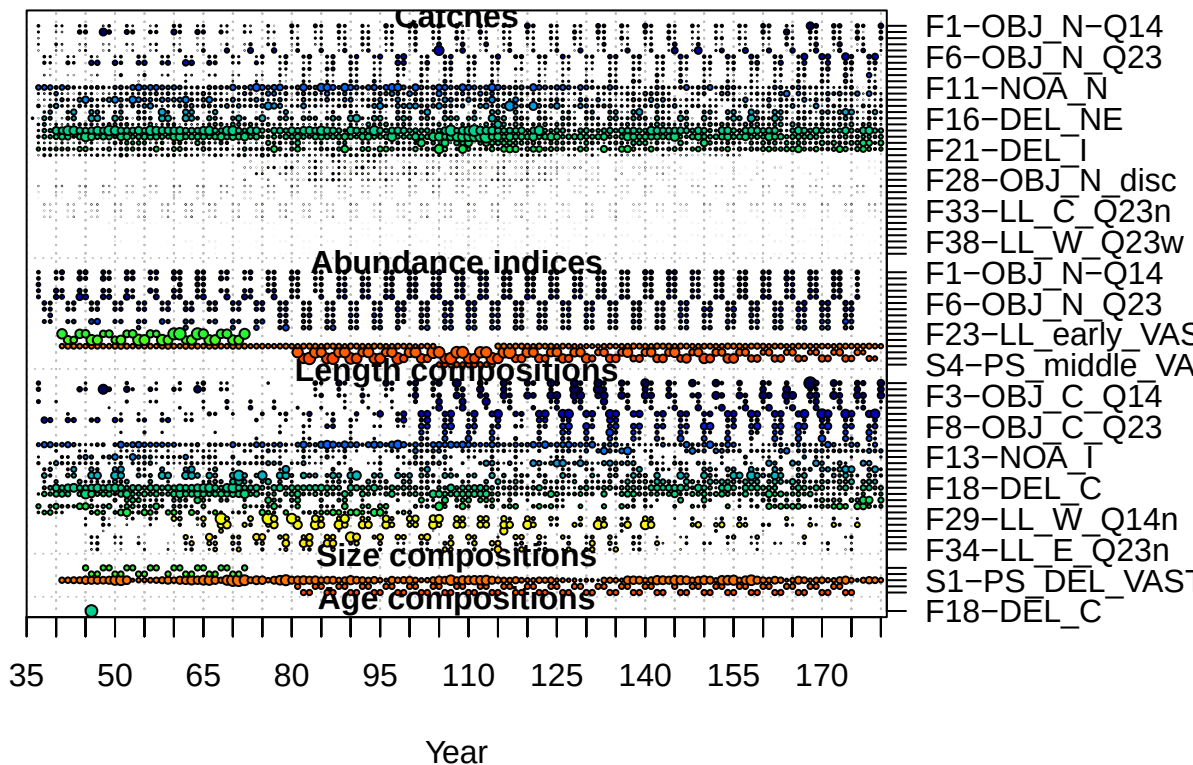
Year



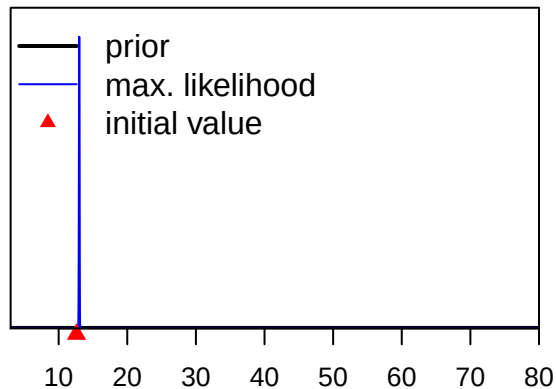




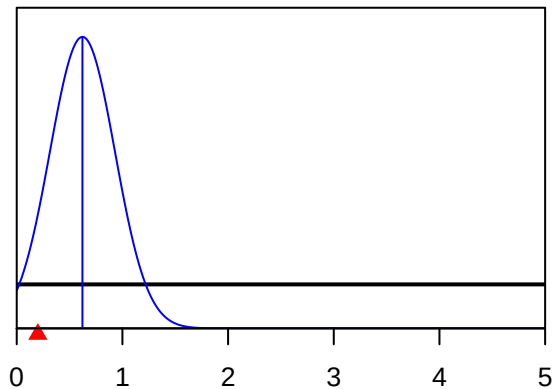




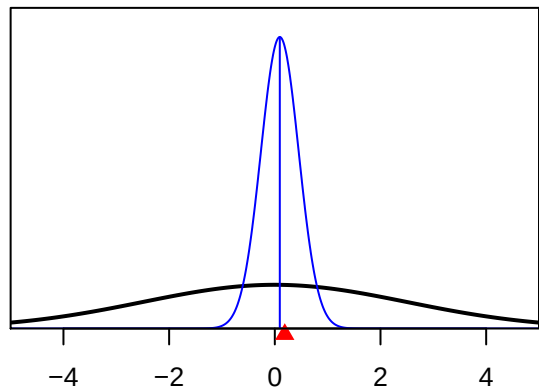
SR_LN(R0)



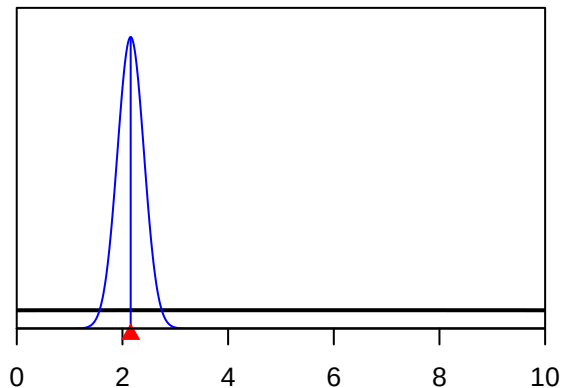
InitF_seas_1 flt_16F16-DEL_NE



SR_regime_BLK1add_36

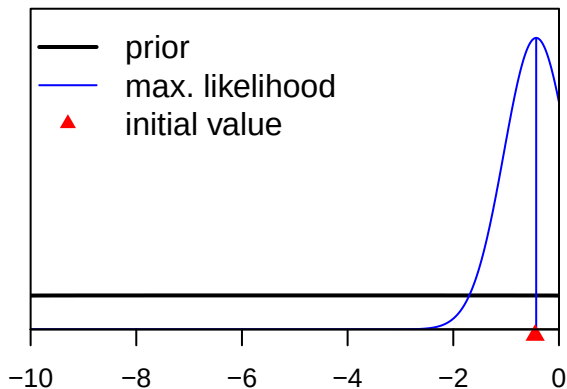


SizeSpline_GradLo_F1-OBJ_N-Q14(1)

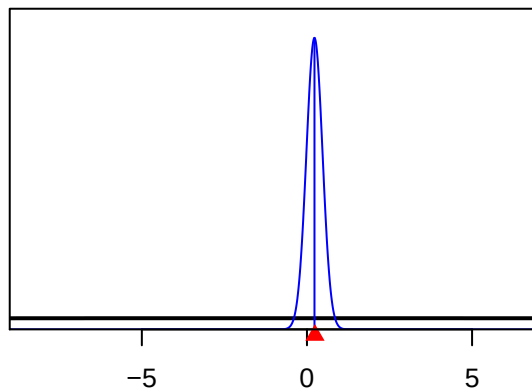


Parameter value

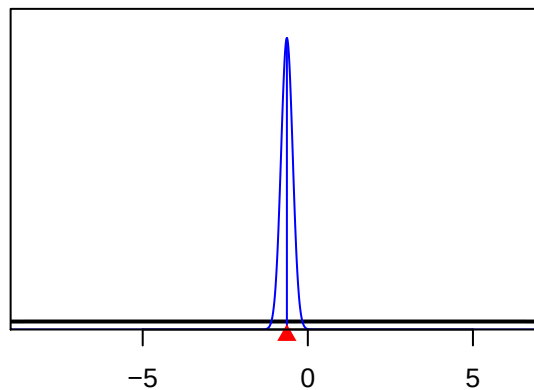
SizeSpline_GradHi_F1-OBJ_N-Q14(1)



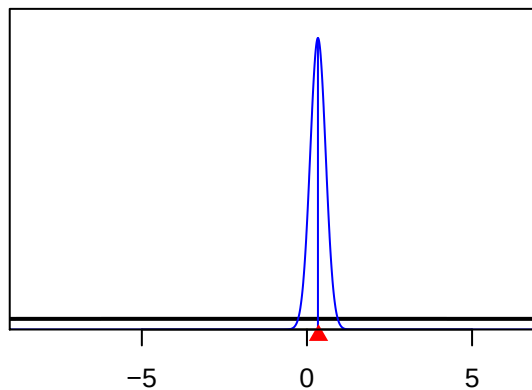
SizeSpline_Val_4_F1-OBJ_N-Q14(1)



SizeSpline_Val_2_F1-OBJ_N-Q14(1)

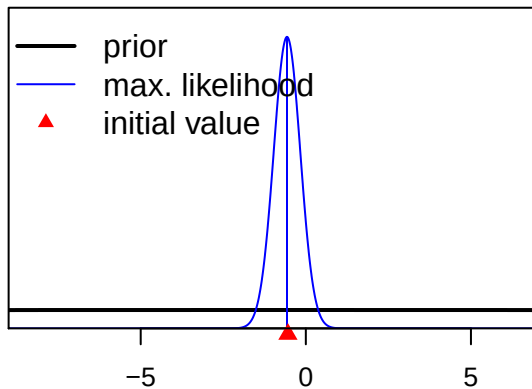


SizeSpline_Val_5_F1-OBJ_N-Q14(1)

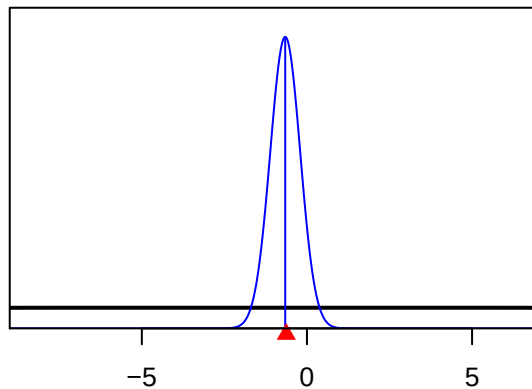


Parameter value

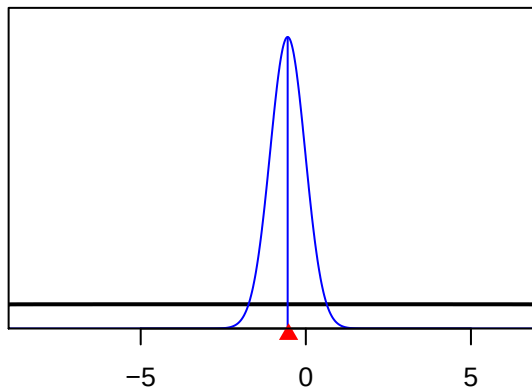
SizeSpline_Val_6 F1-OBJ_N-Q14(1)



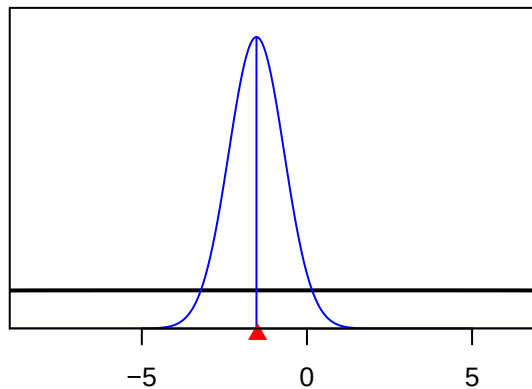
SizeSpline_Val_8 F1-OBJ_N-Q14(1)



SizeSpline_Val_7 F1-OBJ_N-Q14(1)

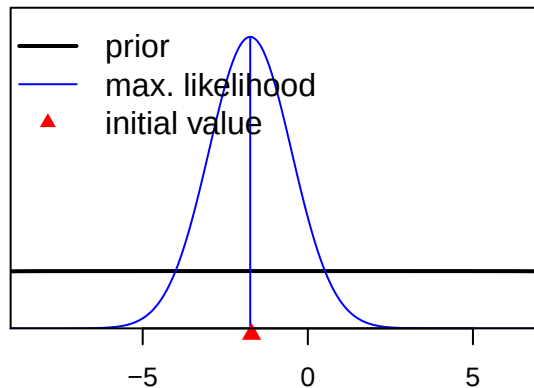


SizeSpline_Val_9 F1-OBJ_N-Q14(1)

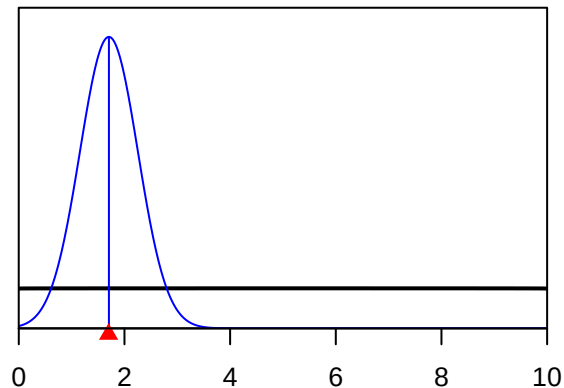


Parameter value

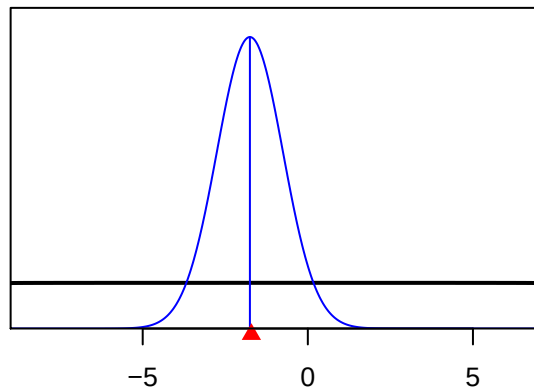
SizeSpline_Val_10_F1-OBJ_N-Q14(1)



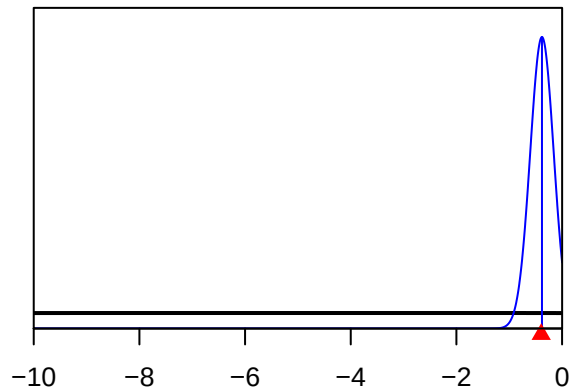
SizeSpline_GradLo_F2-OBJ_Nc_Q14(2)



SizeSpline_Val_11_F1-OBJ_N-Q14(1)

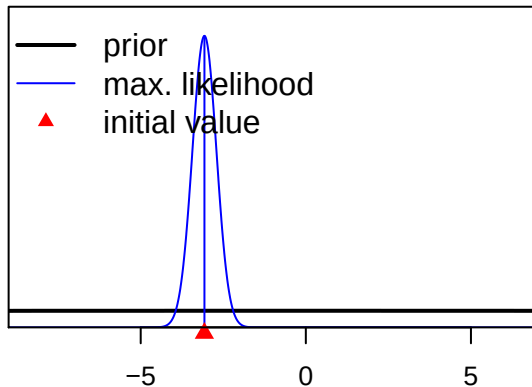


SizeSpline_GradHi_F2-OBJ_Nc_Q14(2)

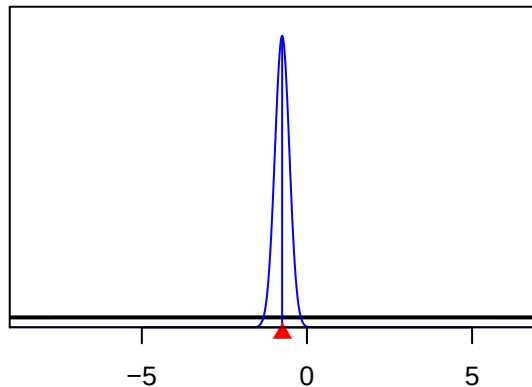


Parameter value

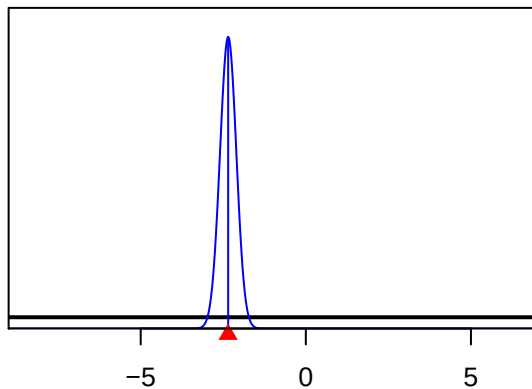
SizeSpline_Val_2_F2-OBJ_Nc_Q14(2)



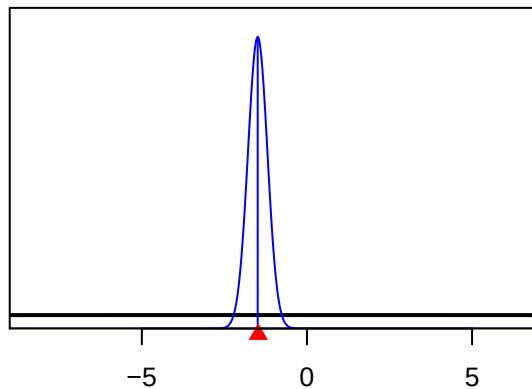
SizeSpline_Val_5_F2-OBJ_Nc_Q14(2)



SizeSpline_Val_3_F2-OBJ_Nc_Q14(2)

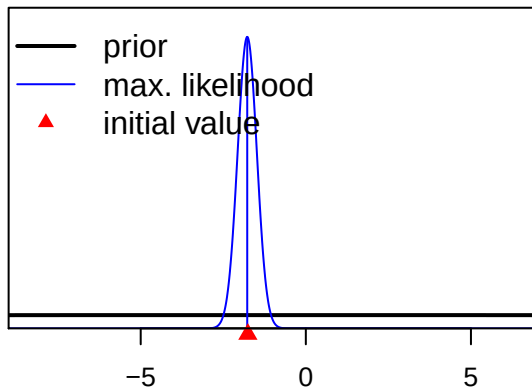


SizeSpline_Val_6_F2-OBJ_Nc_Q14(2)

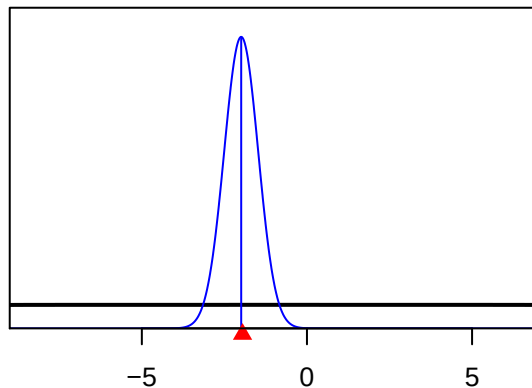


Parameter value

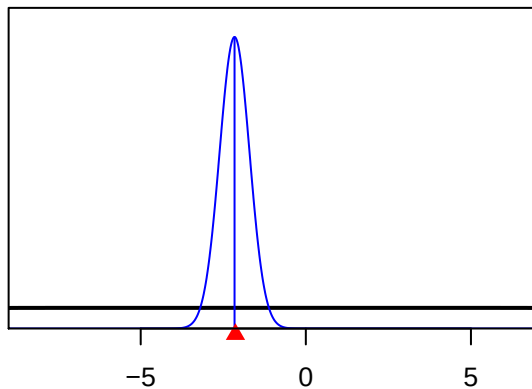
SizeSpline_Val_7_F2-OBJ_Nc_Q14(2)



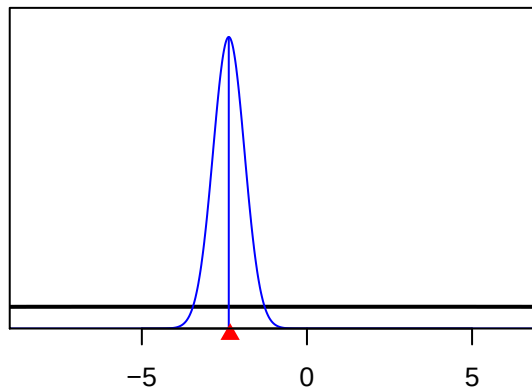
SizeSpline_Val_9_F2-OBJ_Nc_Q14(2)



SizeSpline_Val_8_F2-OBJ_Nc_Q14(2)

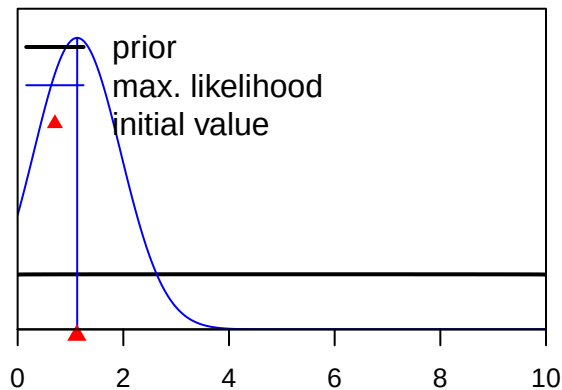


SizeSpline_Val_10_F2-OBJ_Nc_Q14(2)

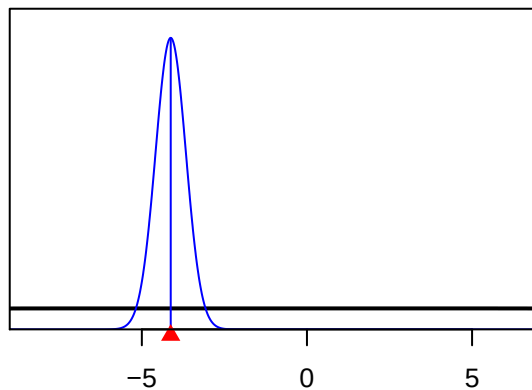


Parameter value

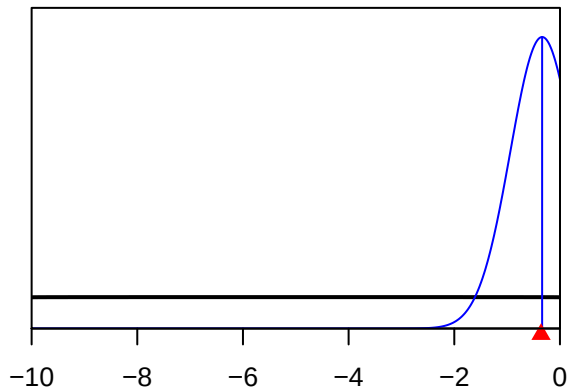
SizeSpline_GradLo_F3-OBJ_C_Q14(3)



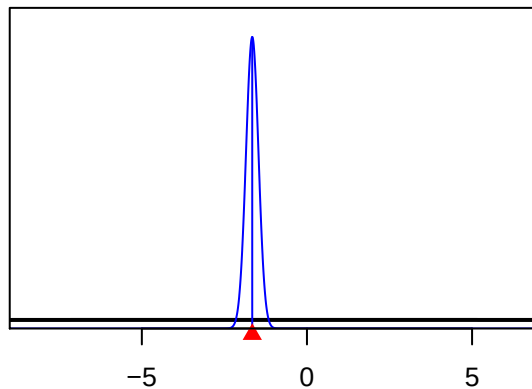
SizeSpline_Val 2_F3-OBJ_C_Q14(3)



SizeSpline_GradHi_F3-OBJ_C_Q14(3)

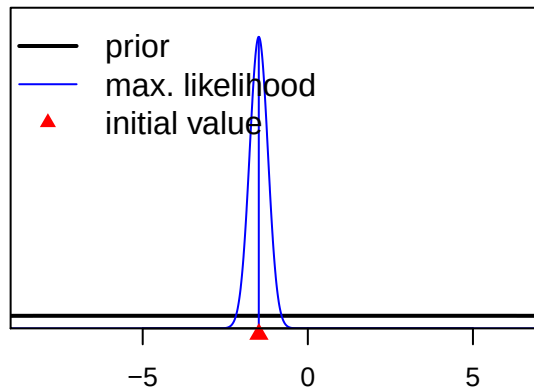


SizeSpline_Val 4_F3-OBJ_C_Q14(3)

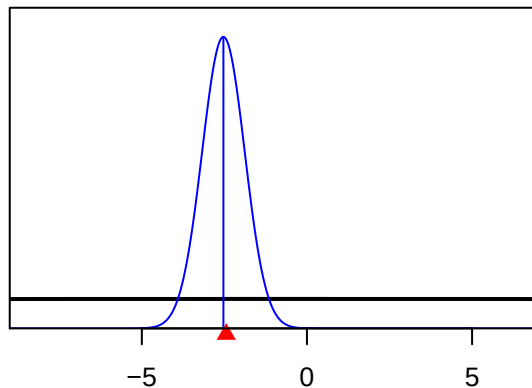


Parameter value

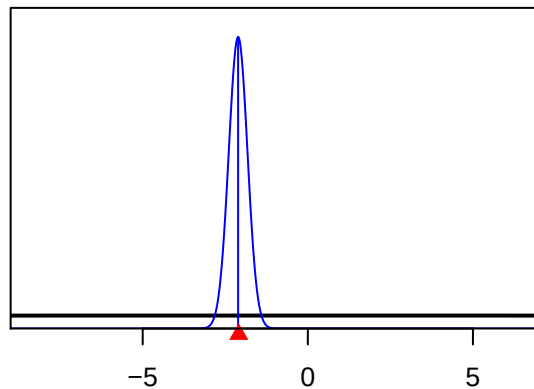
SizeSpline_Val_5_F3-OBJ_C_Q14(3)



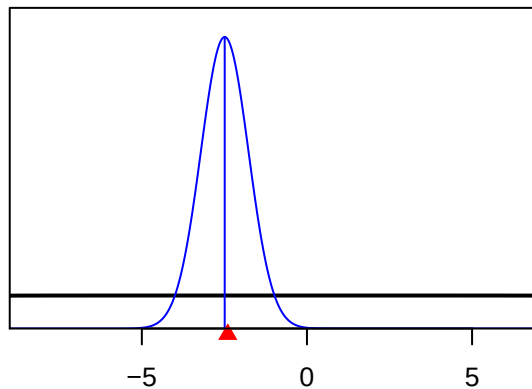
SizeSpline_Val_7_F3-OBJ_C_Q14(3)



SizeSpline_Val_6_F3-OBJ_C_Q14(3)

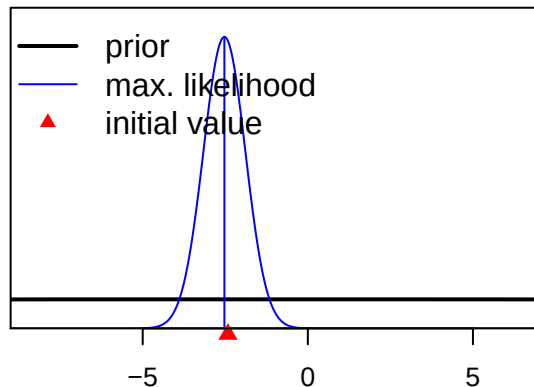


SizeSpline_Val_8_F3-OBJ_C_Q14(3)

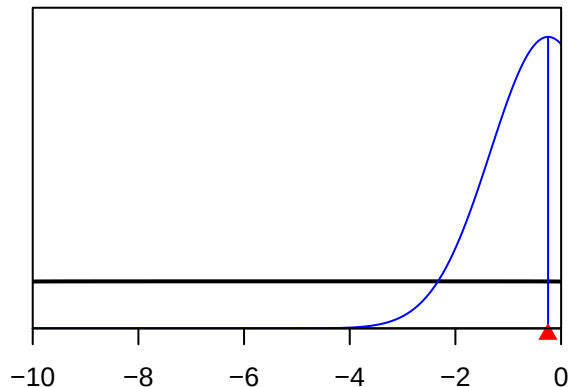


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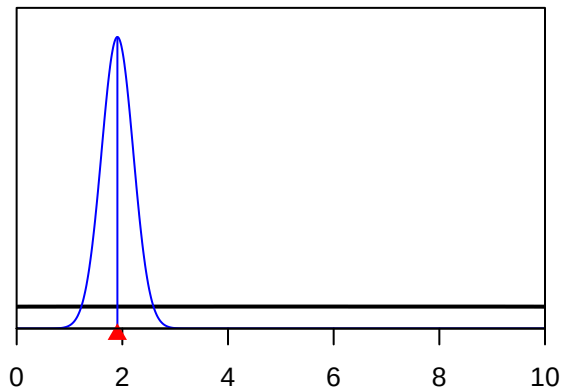
SizeSpline_Val_9_F3-OBJ_C_Q14(3)



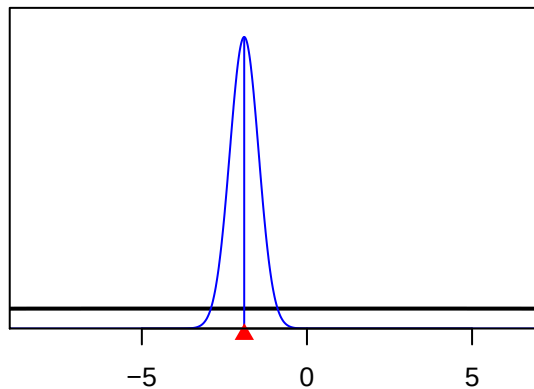
SizeSpline_GradHi_F4-OBJ_Cc_Q14(4)



SizeSpline_GradLo_F4-OBJ_Cc_Q14(4)

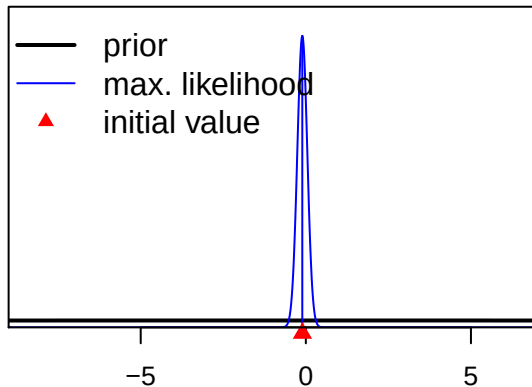


SizeSpline_Val_2_F4-OBJ_Cc_Q14(4)

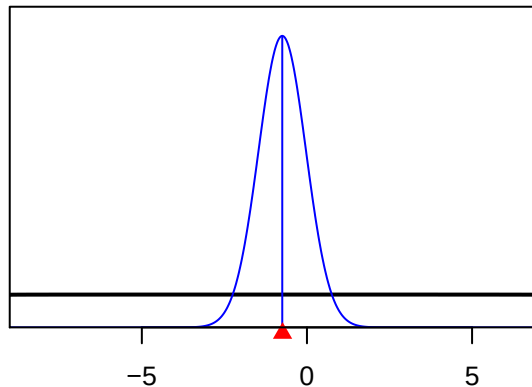


Parameter value

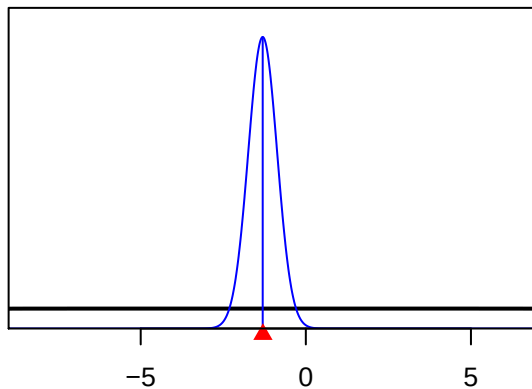
SizeSpline_Val_4_F4-OBJ_Cc_Q14(4)



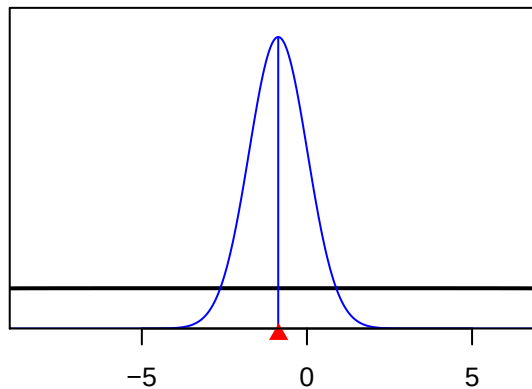
SizeSpline_Val_6_F4-OBJ_Cc_Q14(4)



SizeSpline_Val_5_F4-OBJ_Cc_Q14(4)

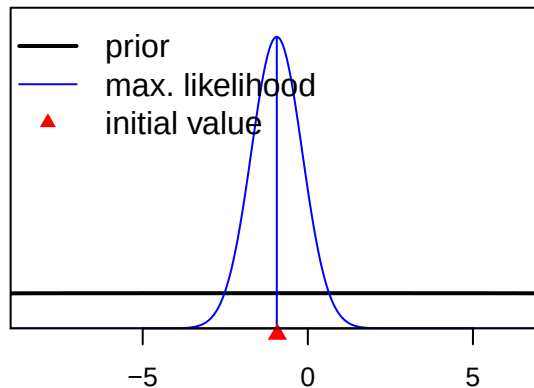


SizeSpline_Val_7_F4-OBJ_Cc_Q14(4)

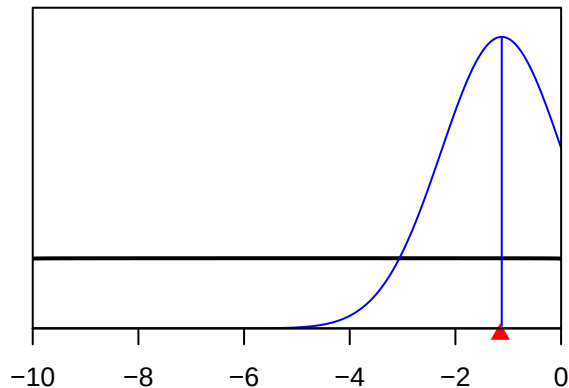


Parameter value

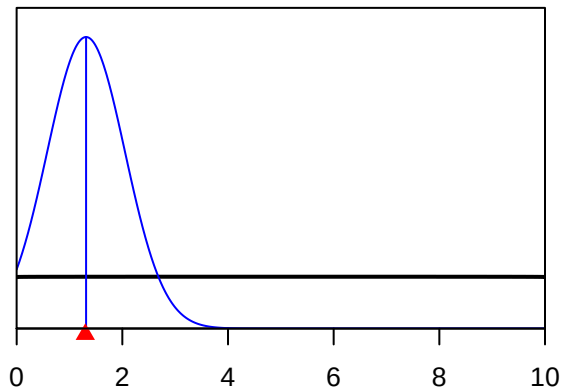
SizeSpline_Val_8_F4-OBJ_Cc_Q14(4)



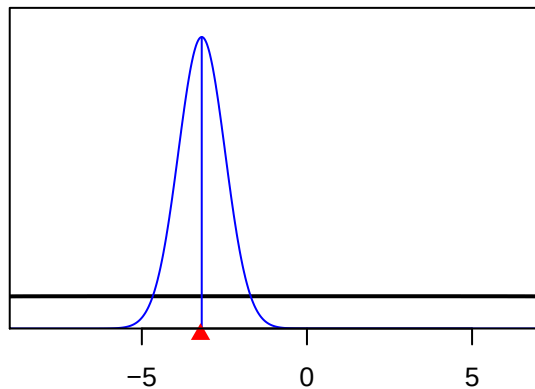
SizeSpline_GradHi_F5-OBJ_S_Q14(5)



SizeSpline_GradLo_F5-OBJ_S_Q14(5)

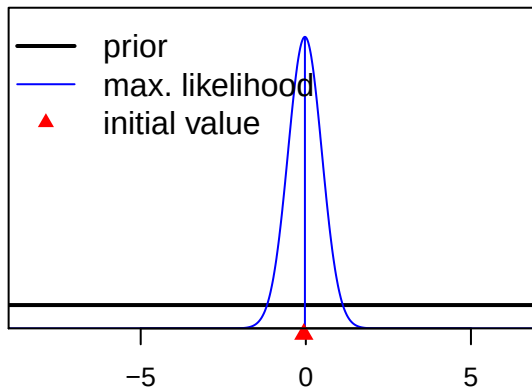


SizeSpline_Val_2_F5-OBJ_S_Q14(5)

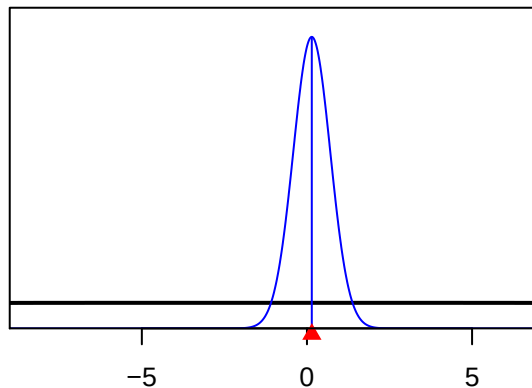


Parameter value

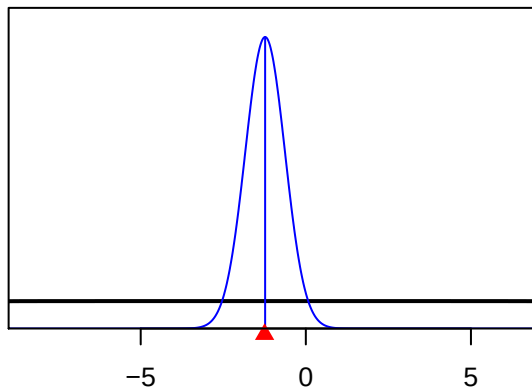
SizeSpline_Val_3_F5-OBJ_S_Q14(5)



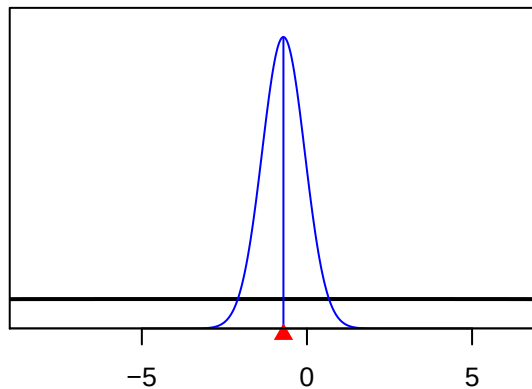
SizeSpline_Val_5_F5-OBJ_S_Q14(5)



SizeSpline_Val_4_F5-OBJ_S_Q14(5)

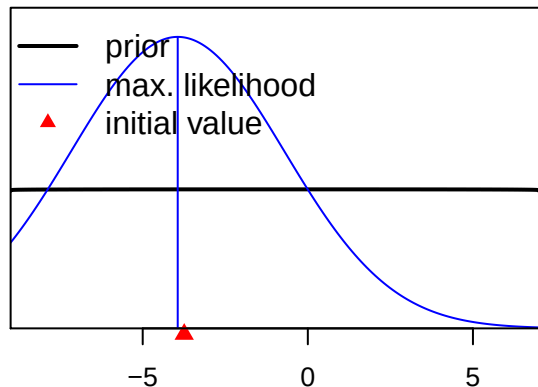


SizeSpline_Val_6_F5-OBJ_S_Q14(5)

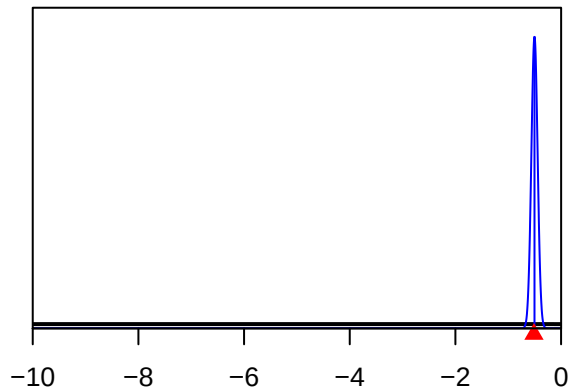


Parameter value

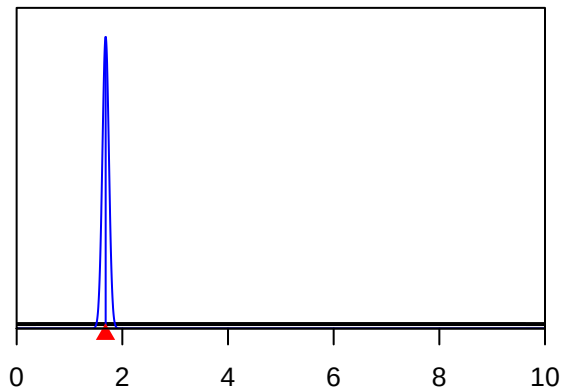
SizeSpline_Val_8_F5-OBJ_S_Q14(5)



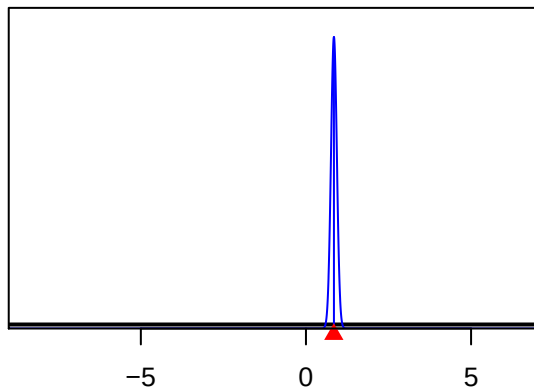
SizeSpline_GradHi_F6-OBJ_N_Q23(6)



SizeSpline_GradLo_F6-OBJ_N_Q23(6)

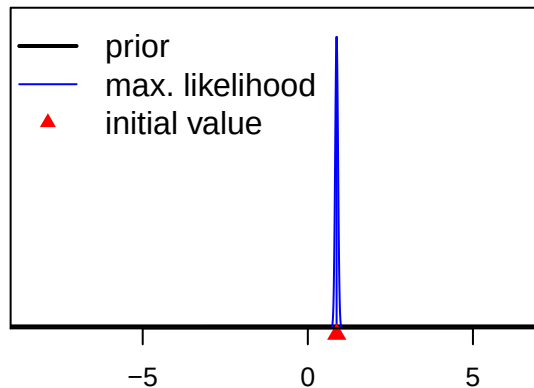


SizeSpline_Val_2_F6-OBJ_N_Q23(6)

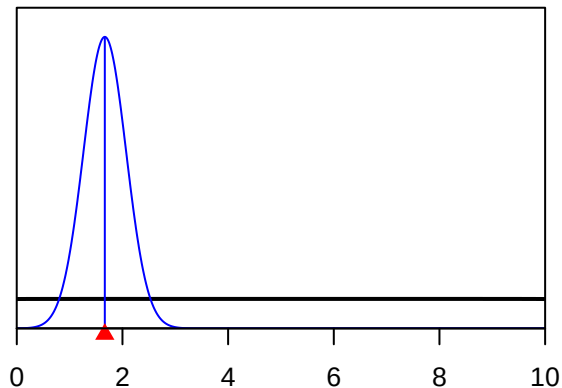


Parameter value

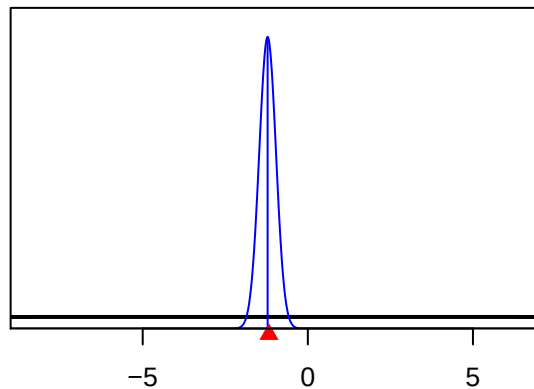
SizeSpline_Val_4_F6-OBJ_N_Q23(6)



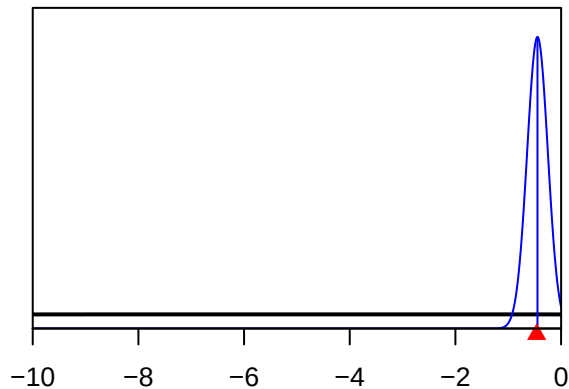
SizeSpline_GradLo_F7-OBJ_Nc_Q23(7)



SizeSpline_Val_5_F6-OBJ_N_Q23(6)

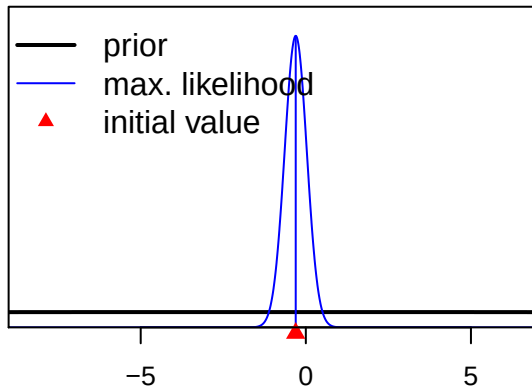


SizeSpline_GradHi_F7-OBJ_Nc_Q23(7)

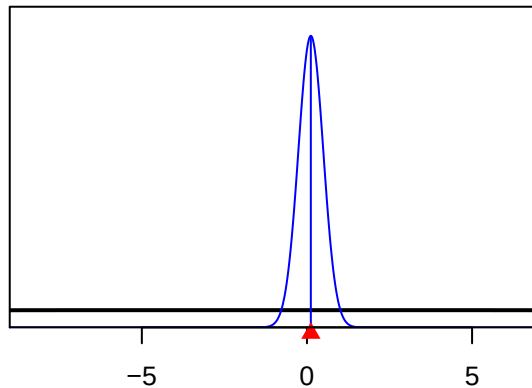


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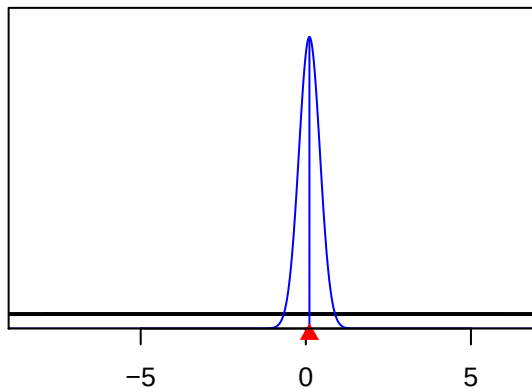
SizeSpline_Val_2_F7-OBJ_Nc_Q23(7)



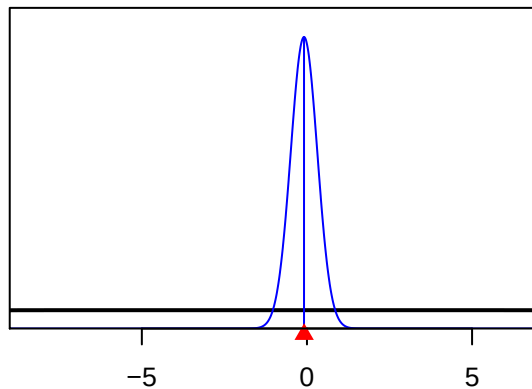
SizeSpline_Val_5_F7-OBJ_Nc_Q23(7)



SizeSpline_Val_4_F7-OBJ_Nc_Q23(7)

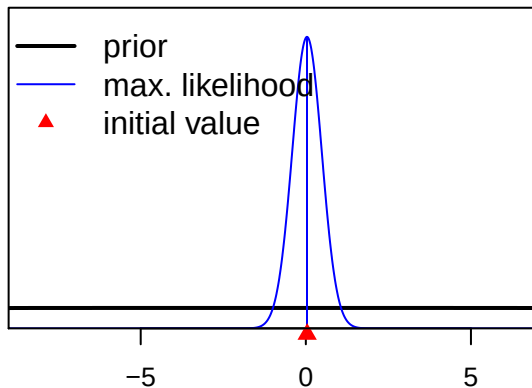


SizeSpline_Val_6_F7-OBJ_Nc_Q23(7)

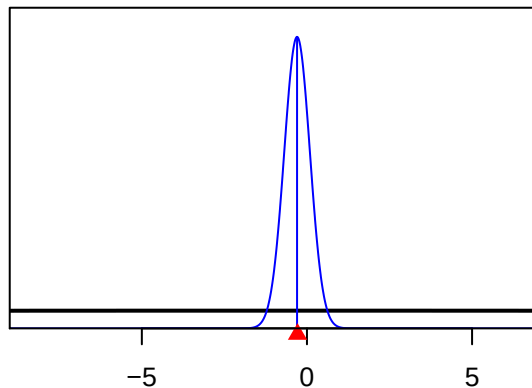


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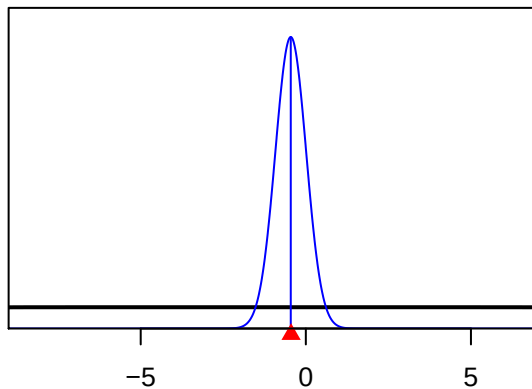
SizeSpline_Val_7_F7-OBJ_Nc_Q23(7)



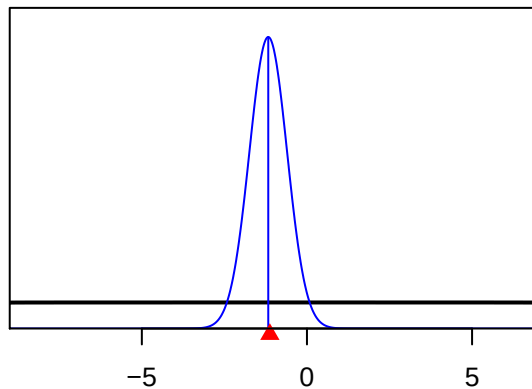
SizeSpline_Val_9_F7-OBJ_Nc_Q23(7)



SizeSpline_Val_8_F7-OBJ_Nc_Q23(7)

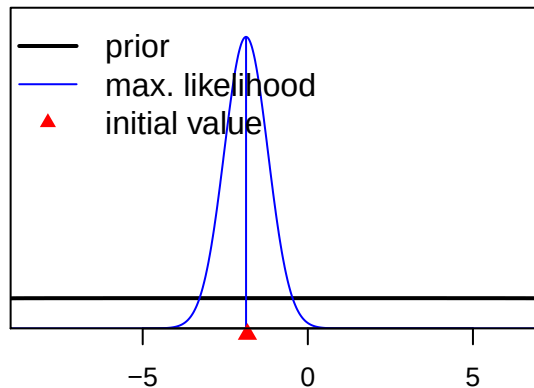


SizeSpline_Val_10_F7-OBJ_Nc_Q23(7)

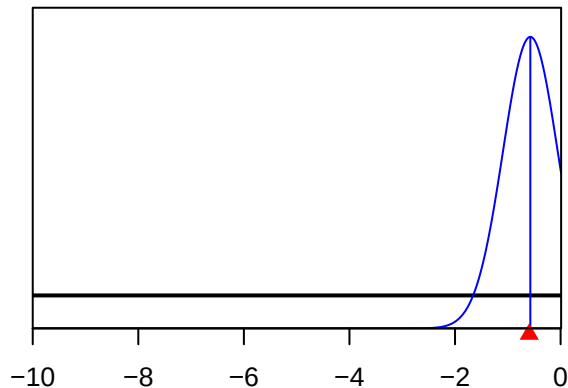


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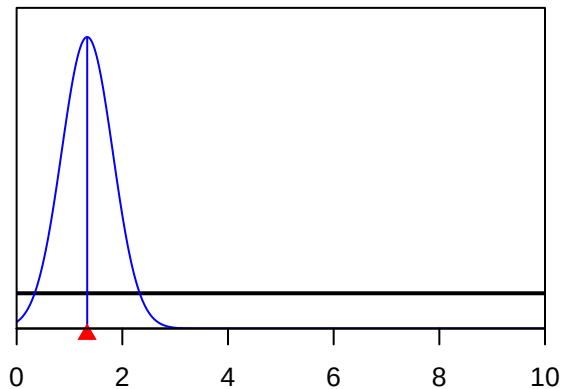
SizeSpline_Val_11_F7-OBJ_Nc_Q23(7)



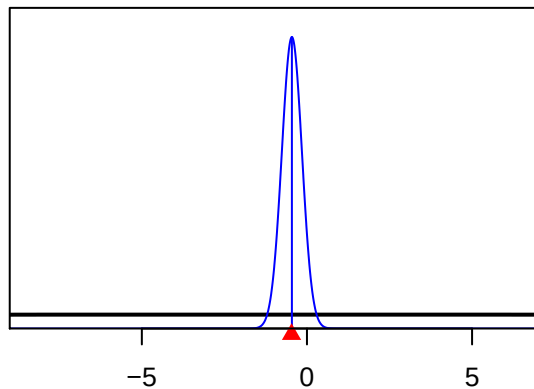
SizeSpline_GradHi_F8-OBJ_C_Q23(8)



SizeSpline_GradLo_F8-OBJ_C_Q23(8)

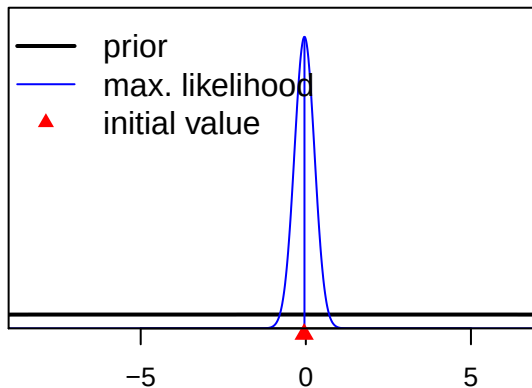


SizeSpline_Val_2_F8-OBJ_C_Q23(8)

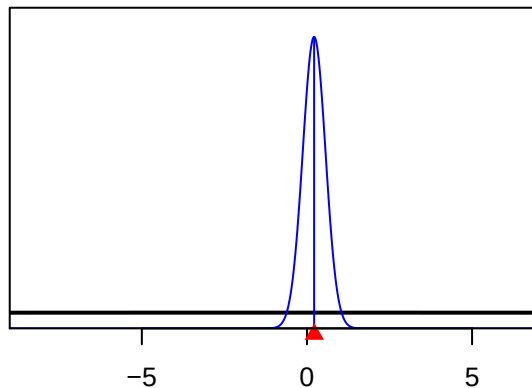


Parameter value

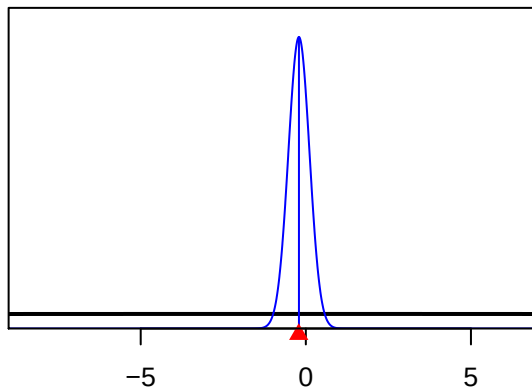
SizeSpline_Val_3_F8-OBJ_C_Q23(8)



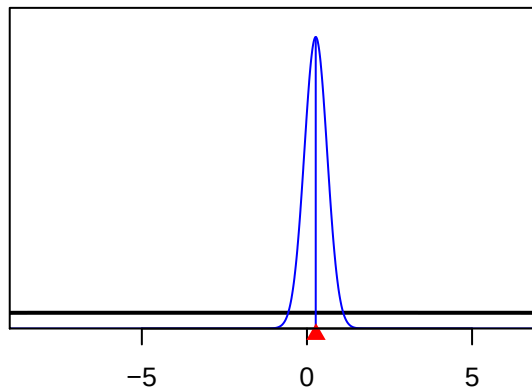
SizeSpline_Val_6_F8-OBJ_C_Q23(8)



SizeSpline_Val_4_F8-OBJ_C_Q23(8)

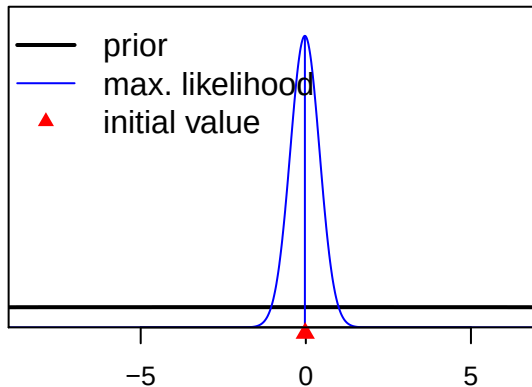


SizeSpline_Val_7_F8-OBJ_C_Q23(8)

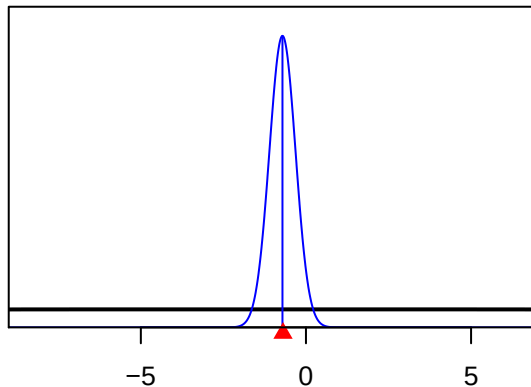


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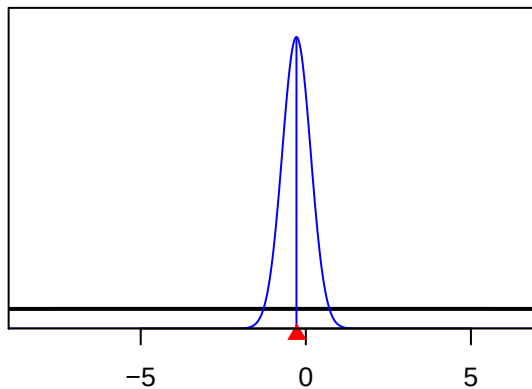
SizeSpline_Val_8_F8-OBJ_C_Q23(8)



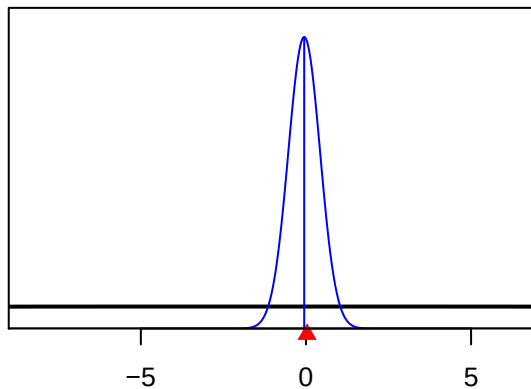
SizeSpline_Val_10_F8-OBJ_C_Q23(8)



SizeSpline_Val_9_F8-OBJ_C_Q23(8)

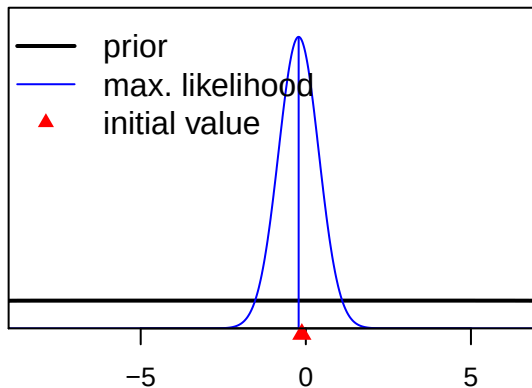


SizeSpline_Val_11_F8-OBJ_C_Q23(8)

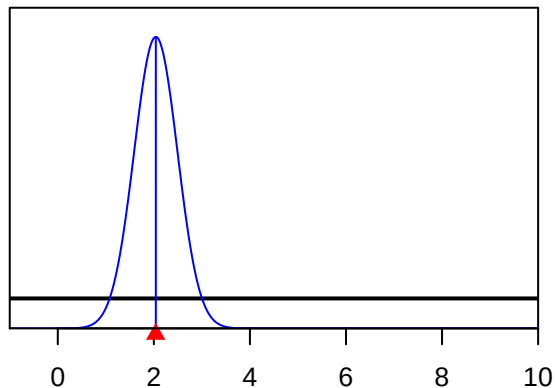


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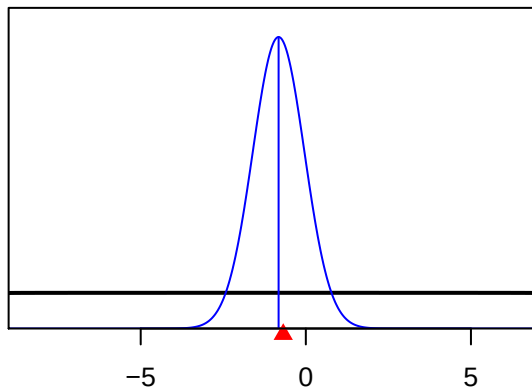
SizeSpline_Val_12_F8-OBJ_C_Q23(8)



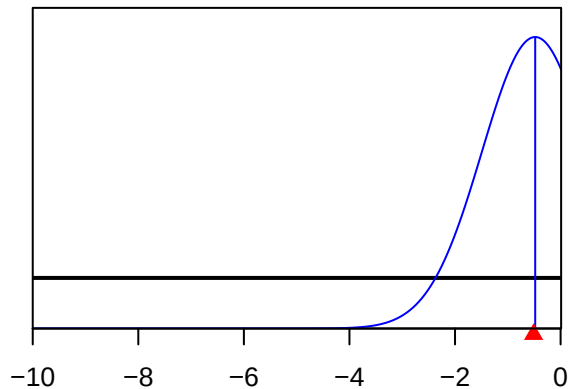
SizeSpline_GradLo_F9-OBJ_Cc_Q23(9)



SizeSpline_Val_13_F8-OBJ_C_Q23(8)

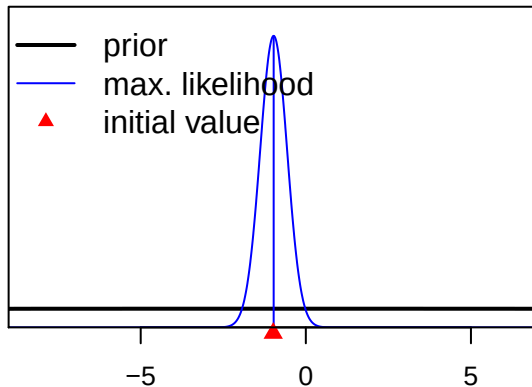


SizeSpline_GradHi_F9-OBJ_Cc_Q23(9)

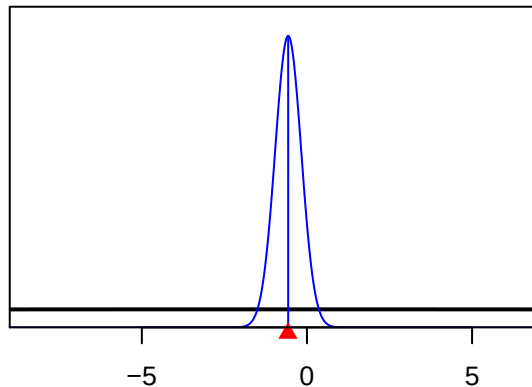


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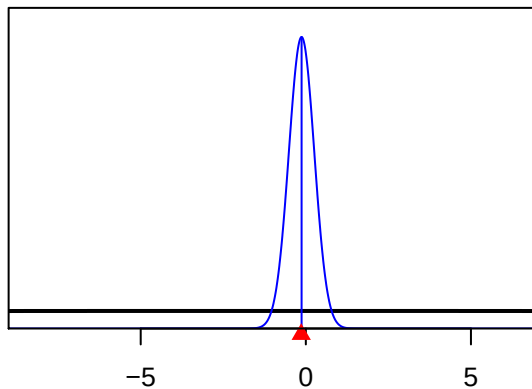
SizeSpline_Val_2_F9-OBJ_Cc_Q23(9)



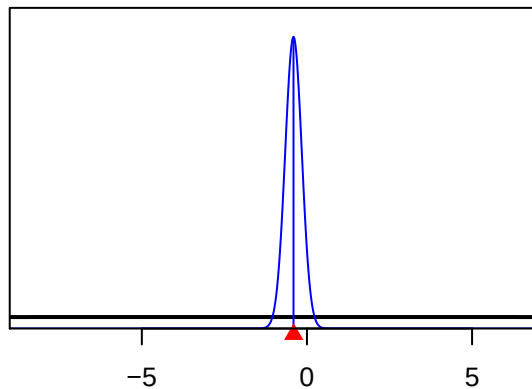
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SizeSpline_Val_3_F9-OBJ_Cc_Q23(9)

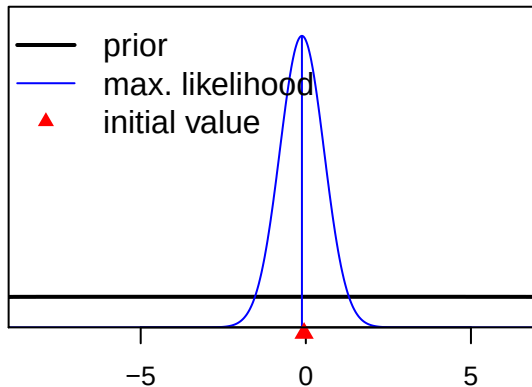


SizeSpline_Val_6_F9-OBJ_Cc_Q23(9)

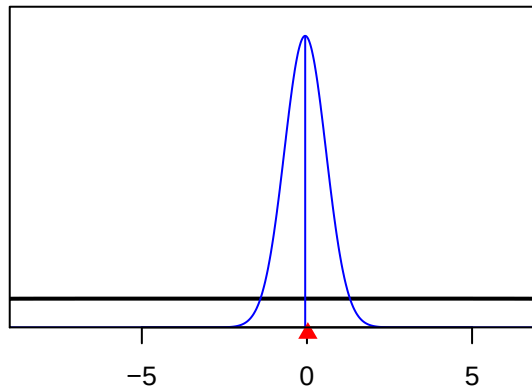


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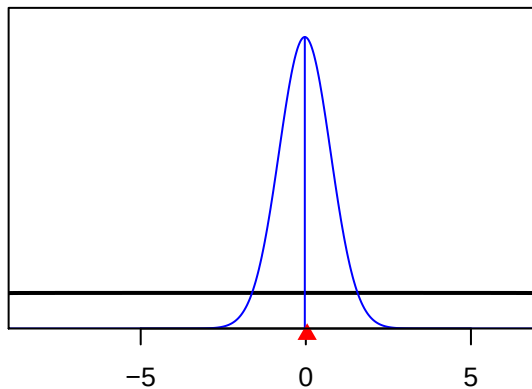
SizeSpline_Val_7_F9-OBJ_Cc_Q23(9)



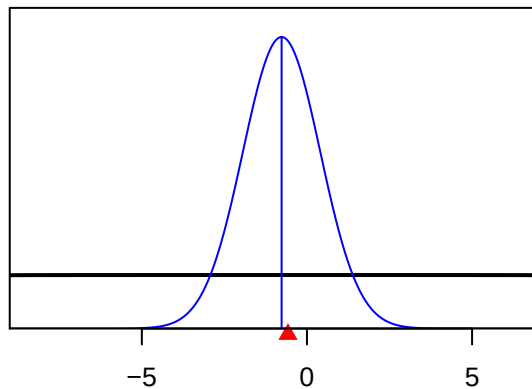
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SizeSpline_Val_8_F9-OBJ_Cc_Q23(9)

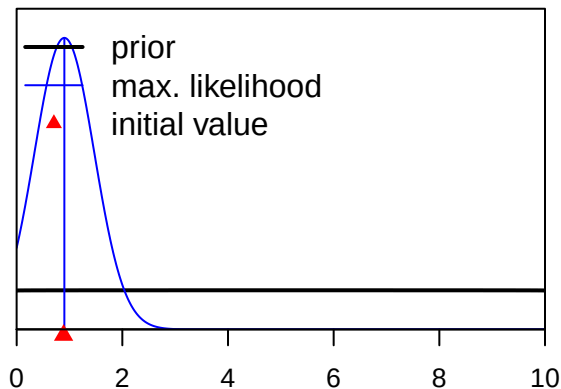


SizeSpline_Val_10_F9-OBJ_Cc_Q23(9)

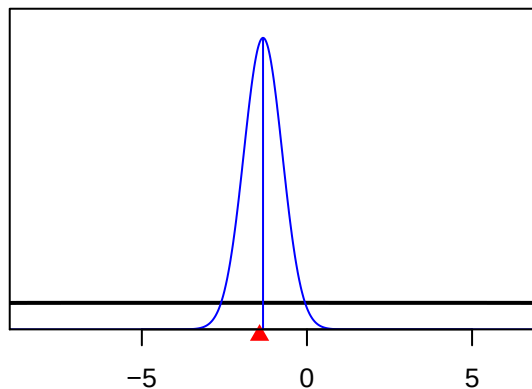


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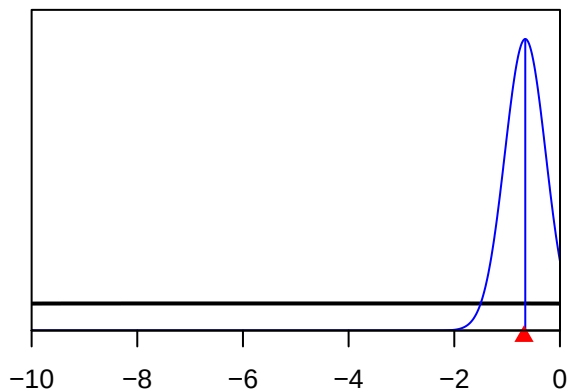
SizeSpline_GradLo_F10-OBJ_S_Q23(10)



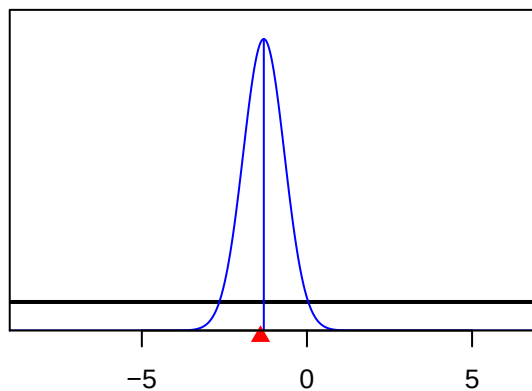
SizeSpline_Val 2_F10-OBJ_S_Q23(10)



SizeSpline_GradHi_F10-OBJ_S_Q23(10)

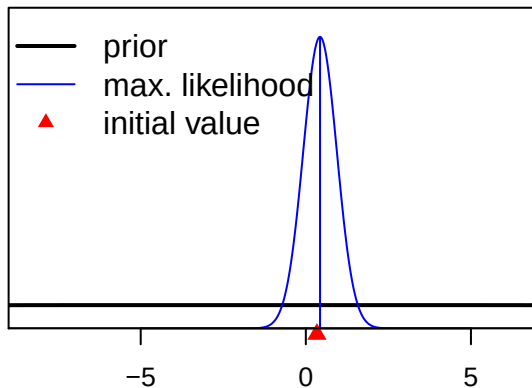


SizeSpline_Val 3_F10-OBJ_S_Q23(10)

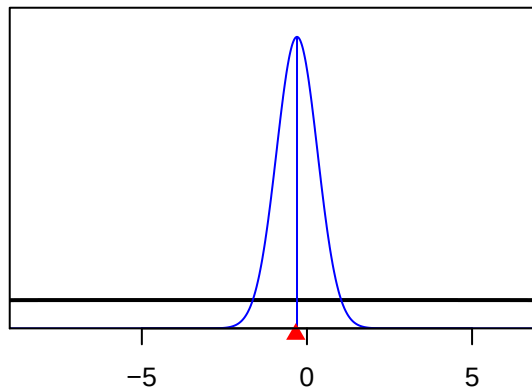


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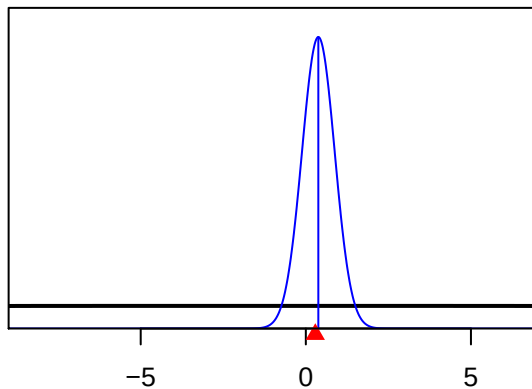
SizeSpline_Val_4_F10-OBJ_S_Q23(10)



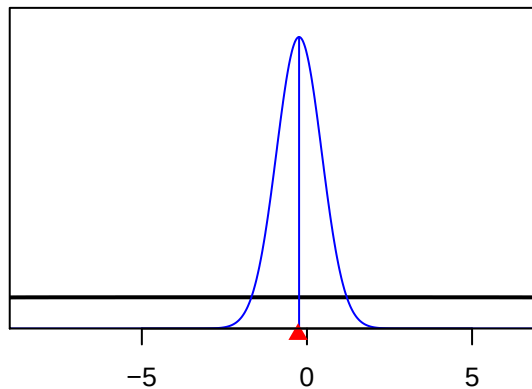
SizeSpline_Val_6_F10-OBJ_S_Q23(10)



SizeSpline_Val_5_F10-OBJ_S_Q23(10)

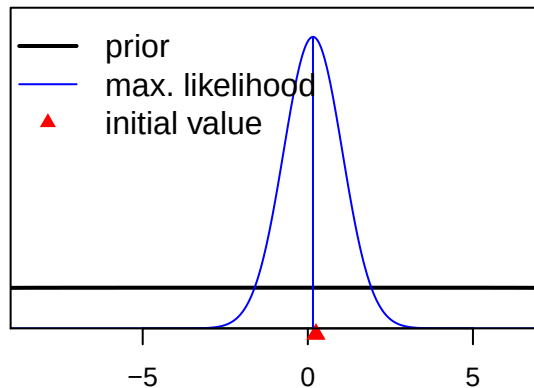


SizeSpline_Val_7_F10-OBJ_S_Q23(10)

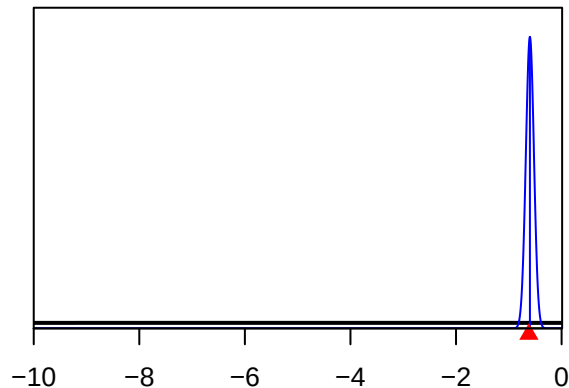


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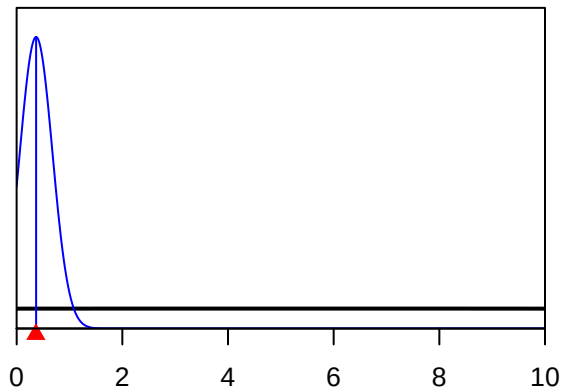
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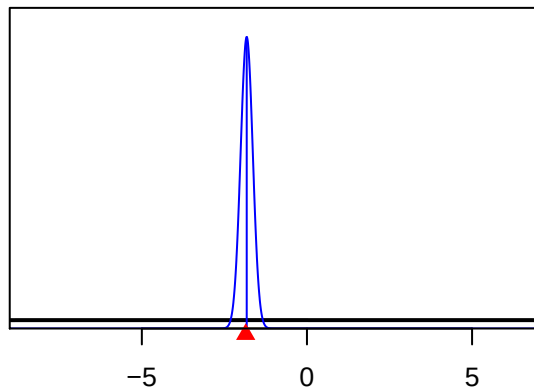
SizeSpline_GradHi_F11-NOA_N(11)



SizeSpline_GradLo_F11-NOA_N(11)

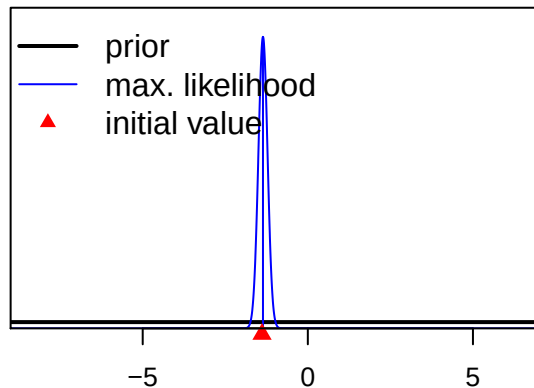


SizeSpline_Val_2_F11-NOA_N(11)

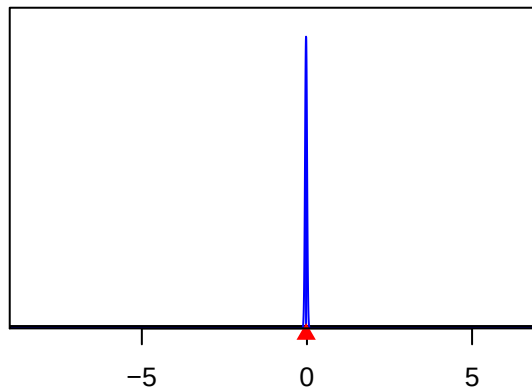


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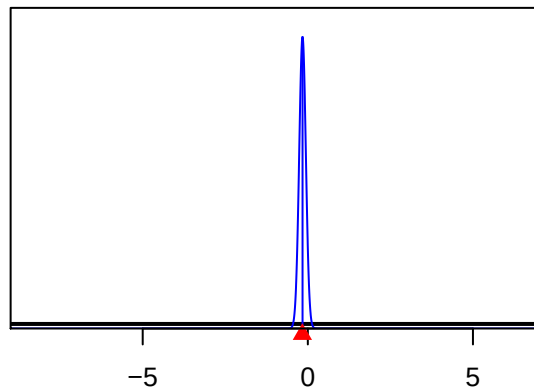
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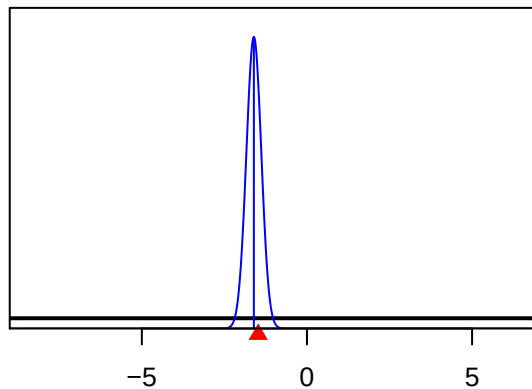
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SizeSpline_Val_4_F11-NOA_N(11)

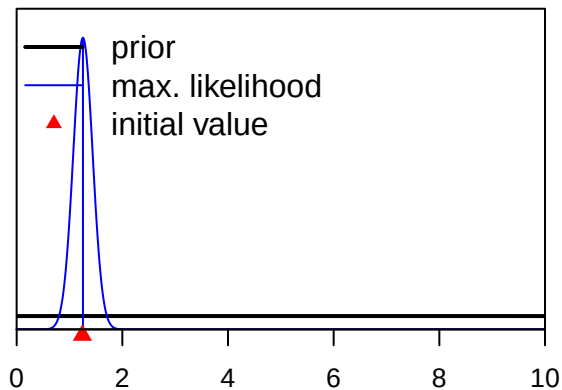


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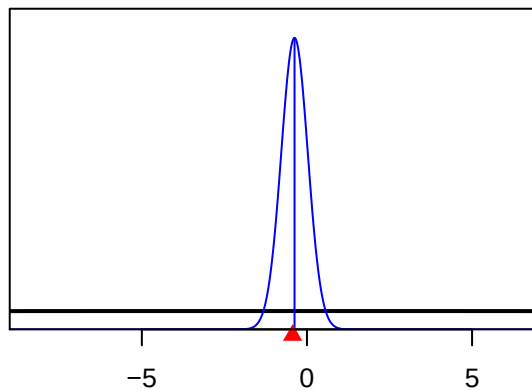


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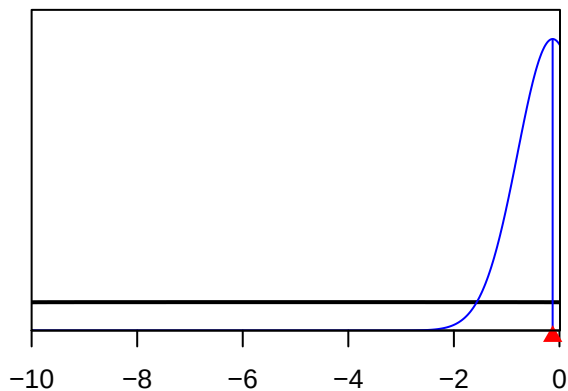
SizeSpline_GradLo_F12-NOA_C(12)



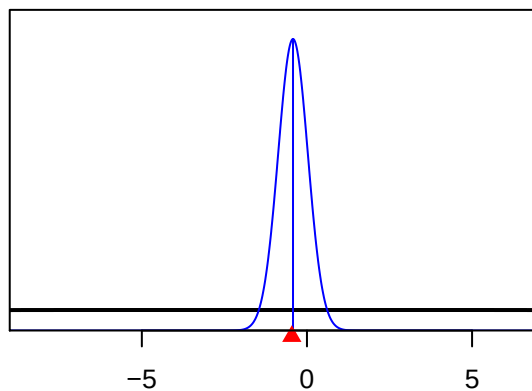
SizeSpline_Val_2_F12-NOA_C(12)



SizeSpline_GradHi_F12-NOA_C(12)

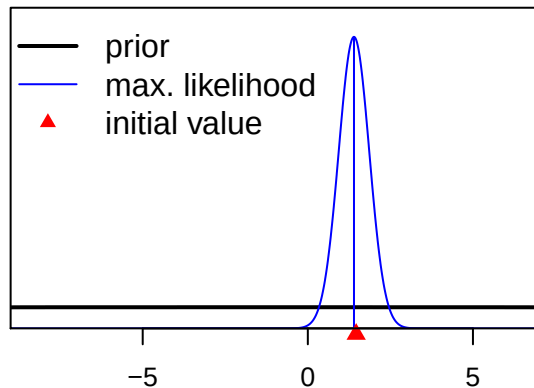


SizeSpline_Val_3_F12-NOA_C(12)

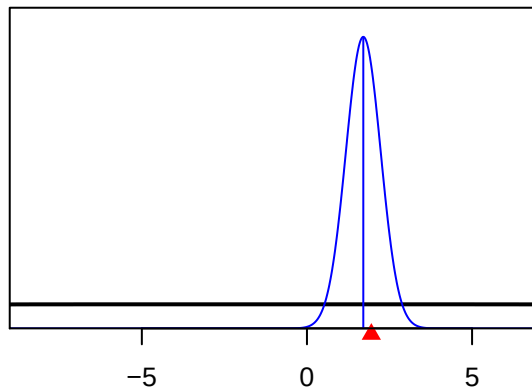


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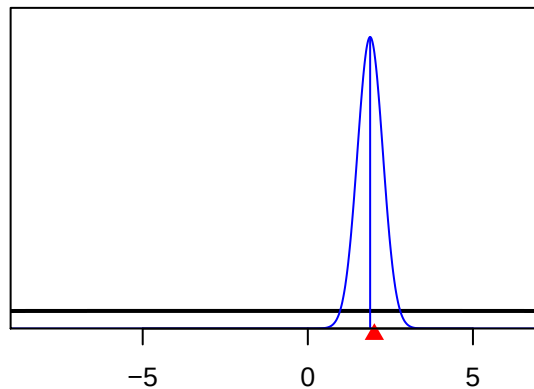
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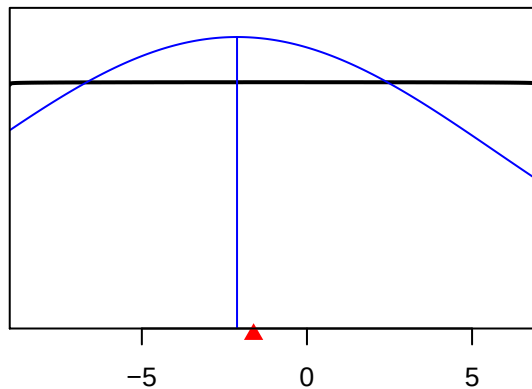
SizeSpline_Val_7_F12-NOA_C(12)



SizeSpline_Val_6_F12-NOA_C(12)

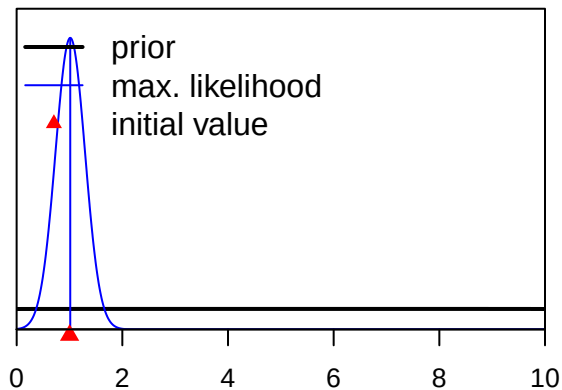


SizeSpline_Val_8_F12-NOA_C(12)

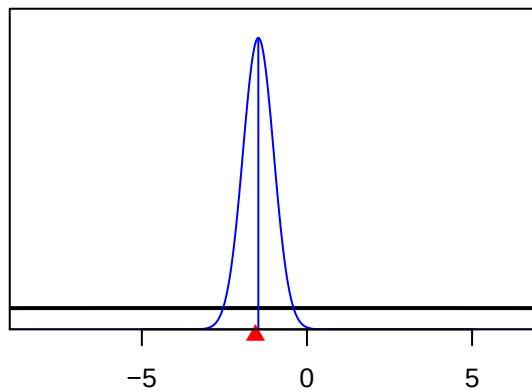


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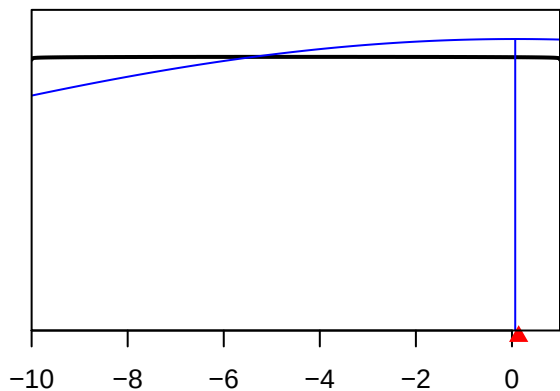
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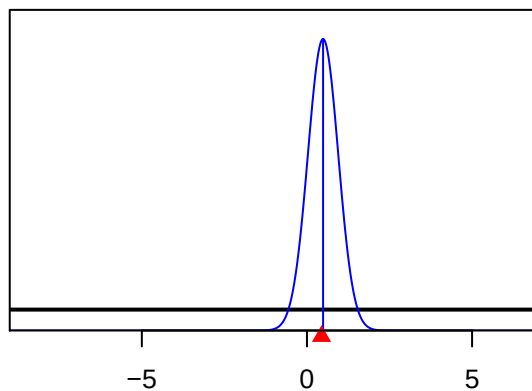
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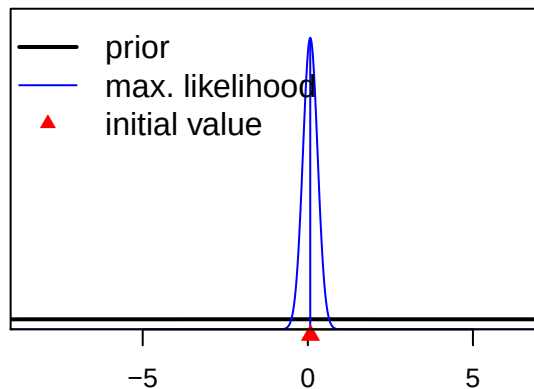


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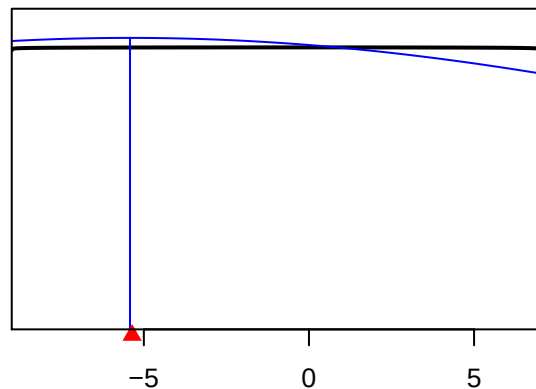


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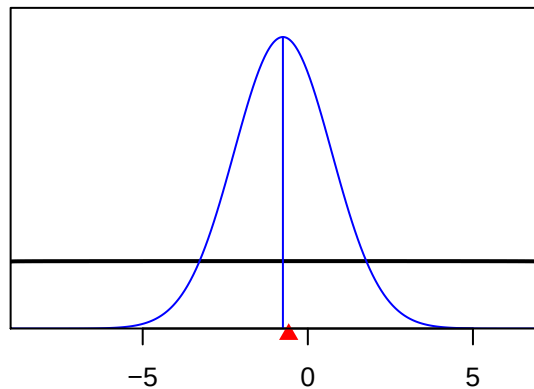
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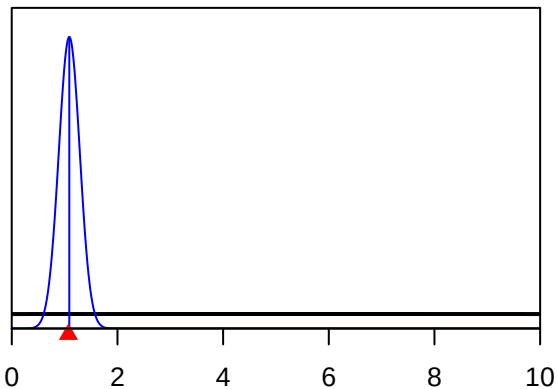
SizeSpline_Val_7_F13-NOA_I(13)



SizeSpline_Val_6_F13-NOA_I(13)

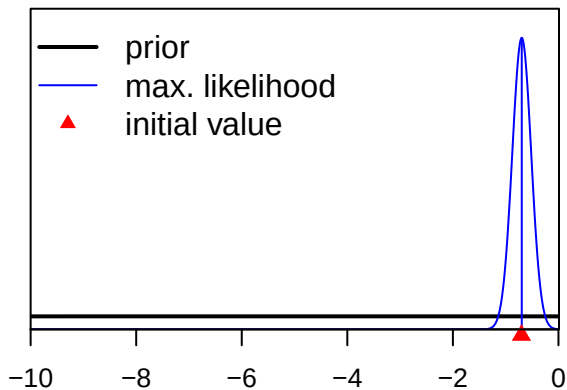


SizeSpline_GradLo_F14-NOA_S(14)

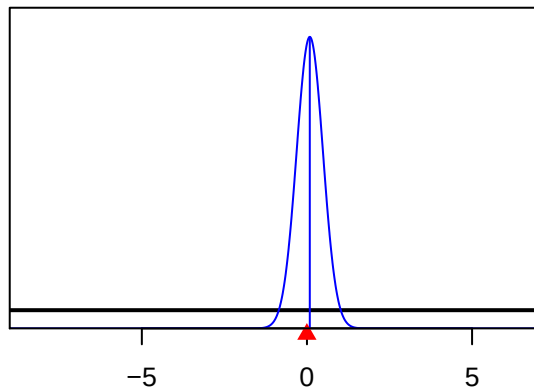


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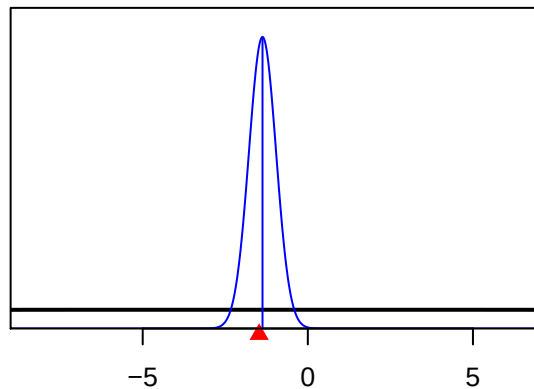
SizeSpline_GradHi_F14-NOA_S(14)



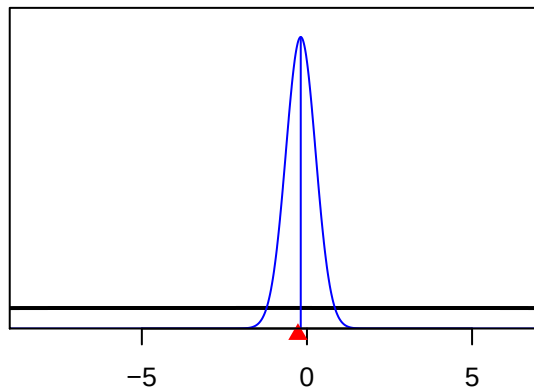
SizeSpline_Val_3_F14-NOA_S(14)



SizeSpline_Val_2_F14-NOA_S(14)

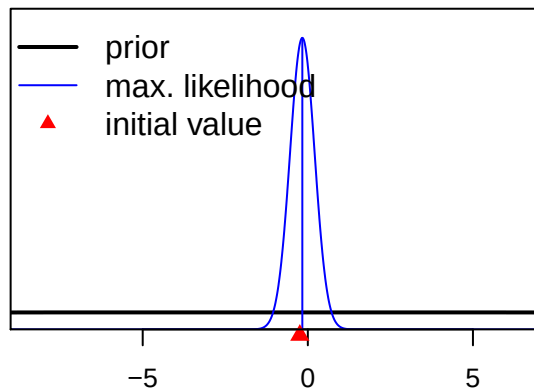


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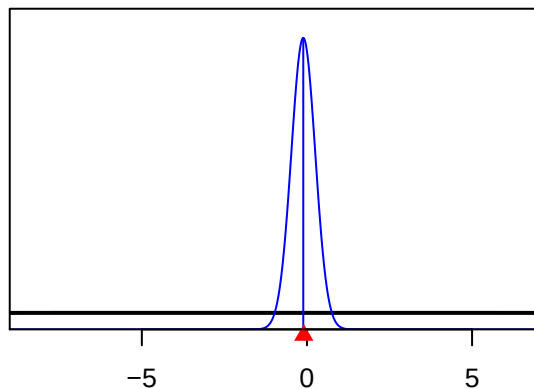


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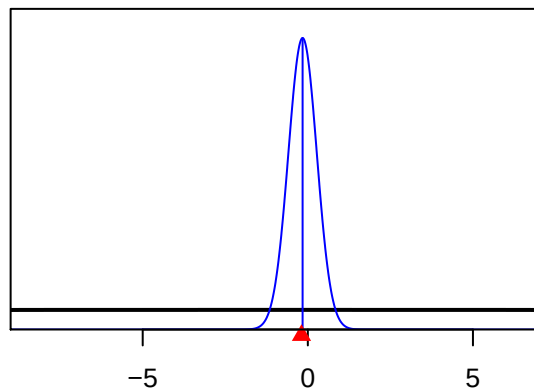
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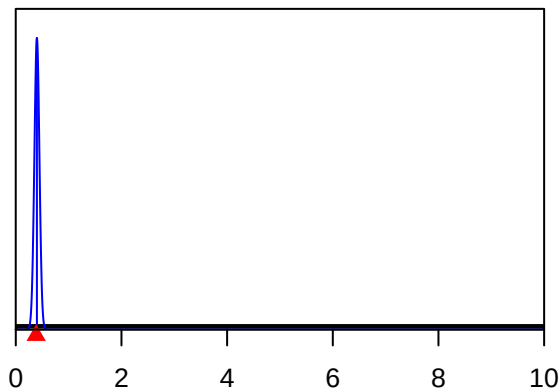
SizeSpline_Val_8_F14-NOA_S(14)



SizeSpline_Val_6_F14-NOA_S(14)

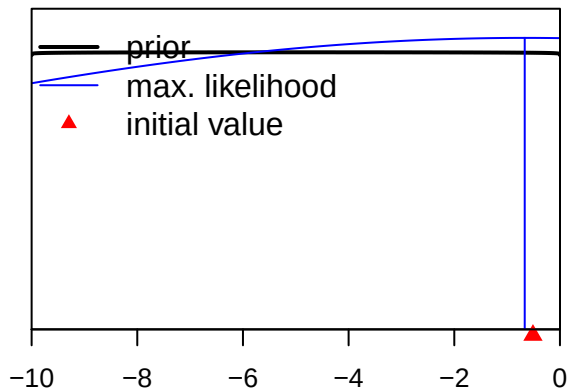


SizeSpline_GradLo_F15-DEL_N(15)

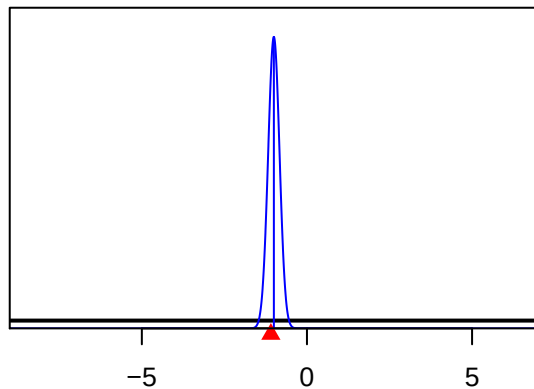


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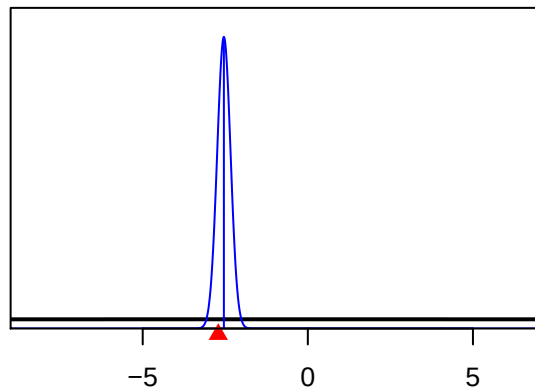
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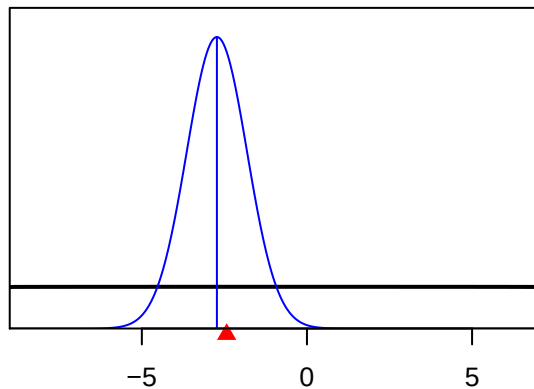
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SizeSpline_Val_2_F15-DEL_N(15)

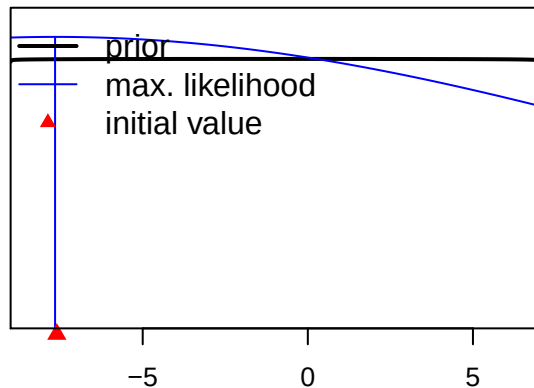


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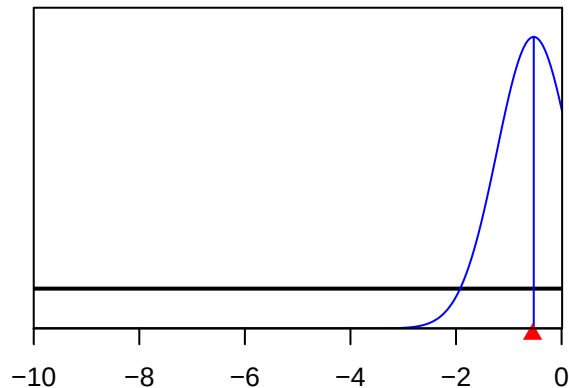


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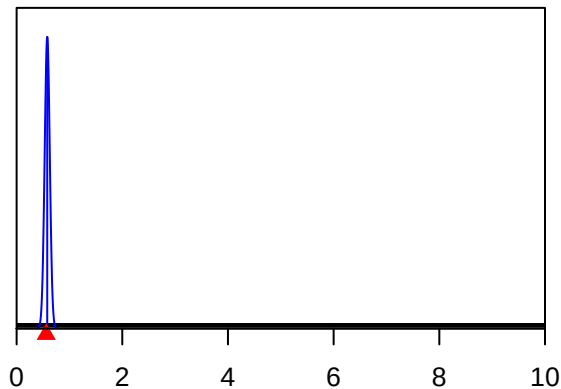
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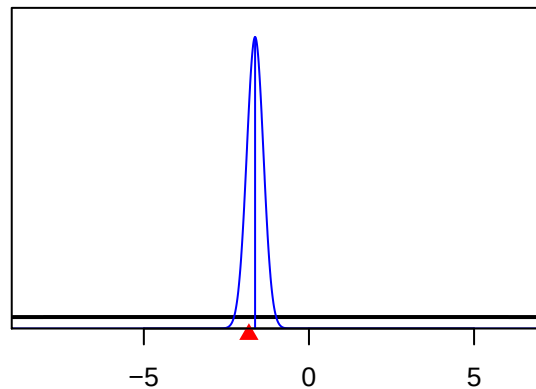
SizeSpline_GradHi_F16-DEL_NE(16)



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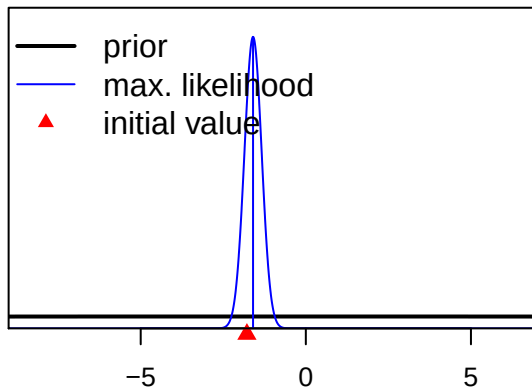


SizeSpline_Val_2_F16-DEL_NE(16)

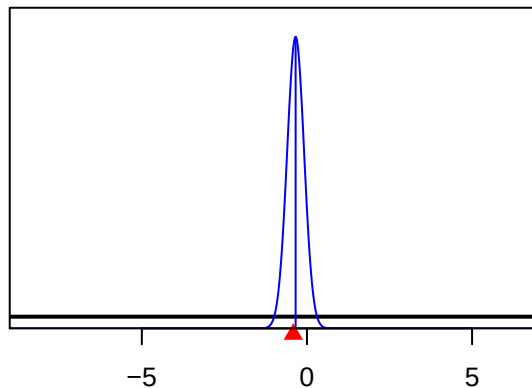


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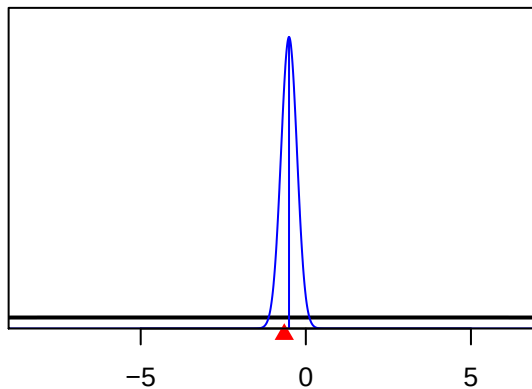
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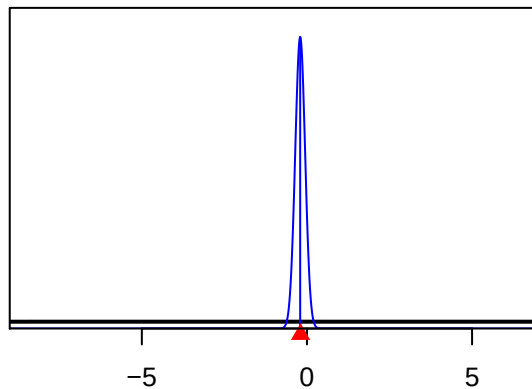
SizeSpline_Val_5_F16-DEL_NE(16)



SizeSpline_Val_4_F16-DEL_NE(16)

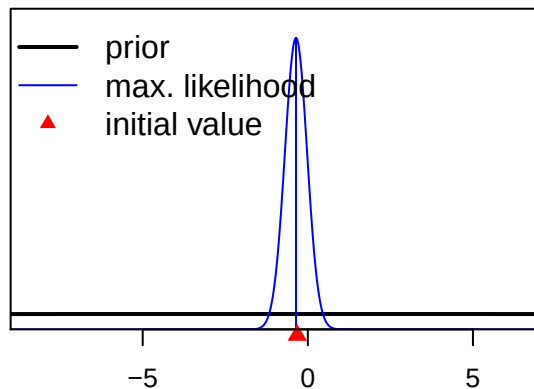


SizeSpline_Val_7_F16-DEL_NE(16)

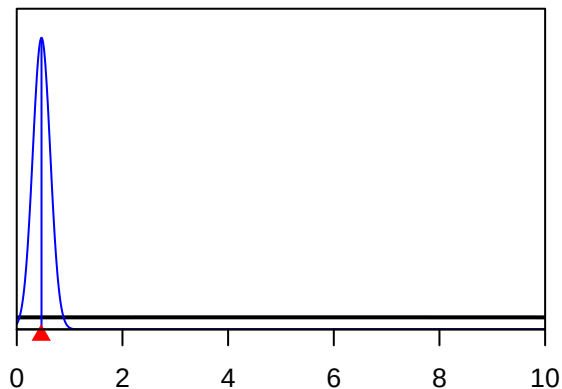


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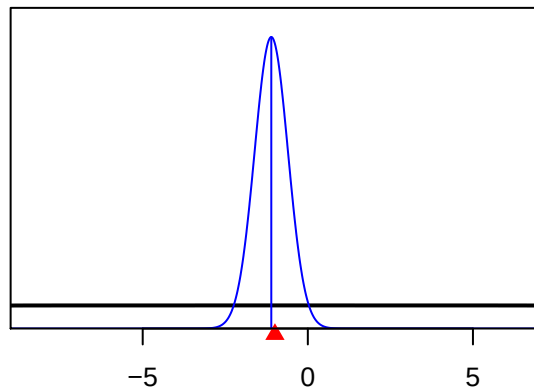
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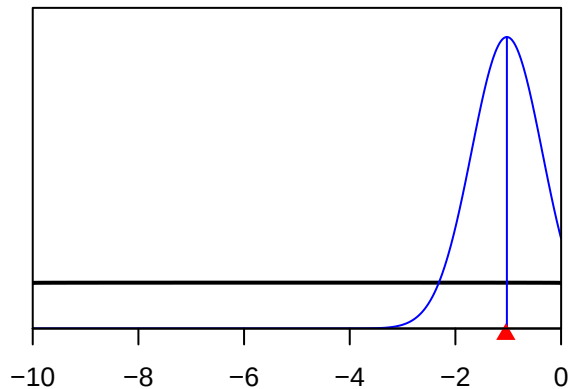
SizeSpline_GradLo_F17-DEL_M(17)



SizeSpline_Val_9_F16-DEL_NE(16)

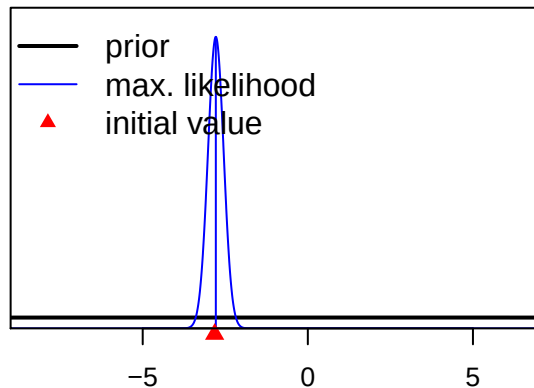


SizeSpline_GradHi_F17-DEL_M(17)

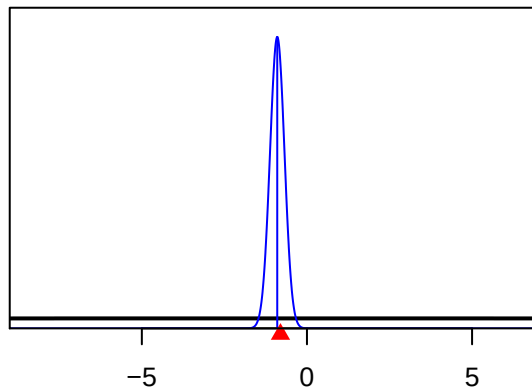


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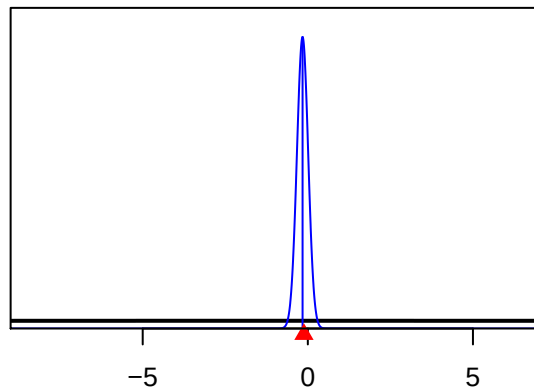
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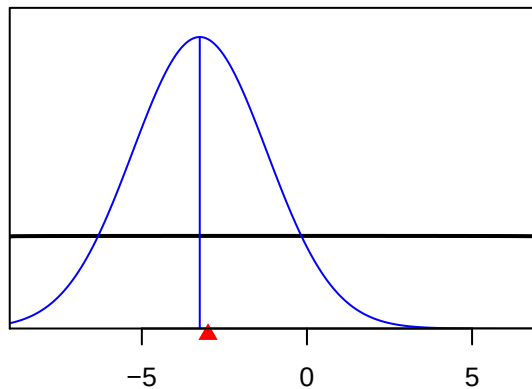
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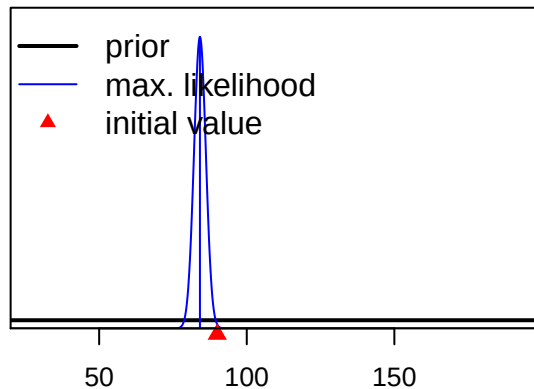


SizeSpline_Val_6_F17-DEL_M(17)

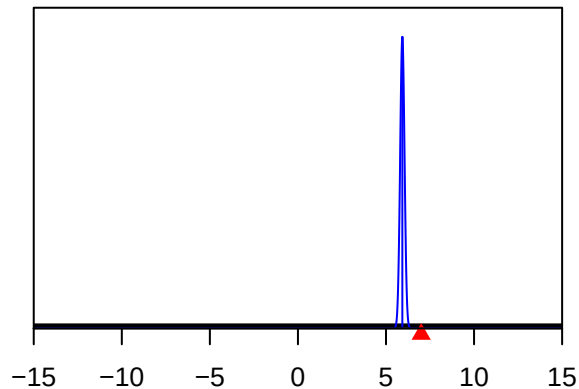


Parameter value

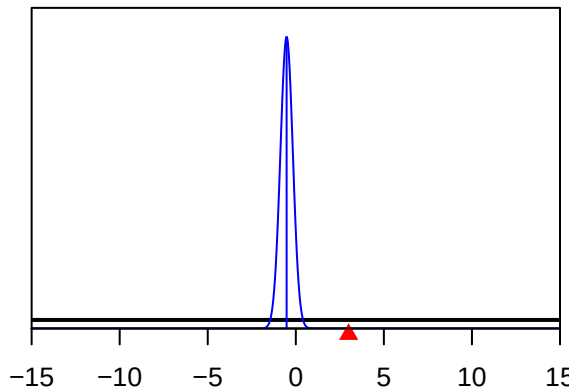
Size_DbIN_peak_F18-DEL_C(18)



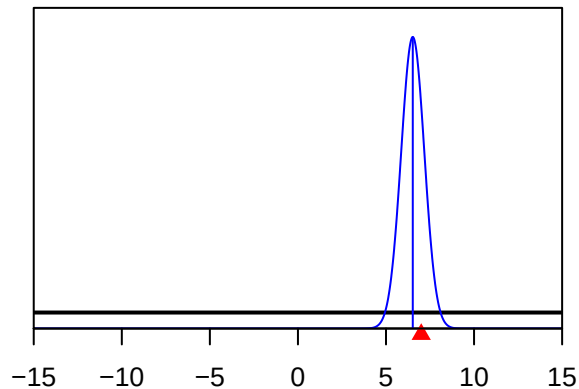
Size_DbIN_ascend_se_F18-DEL_C(18)



Size_DbIN_top_logit_F18-DEL_C(18)

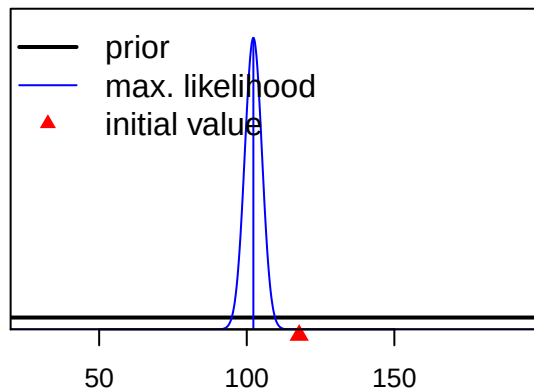


Size_DbIN_descend_se_F18-DEL_C(18)

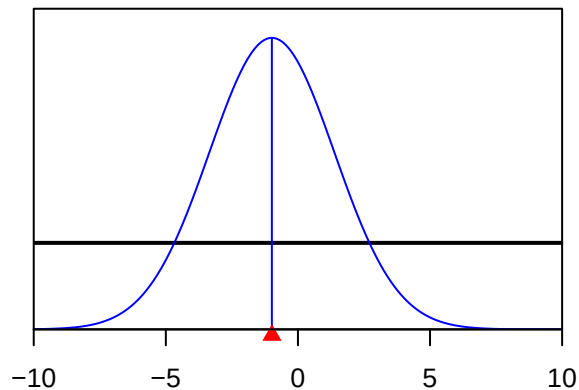


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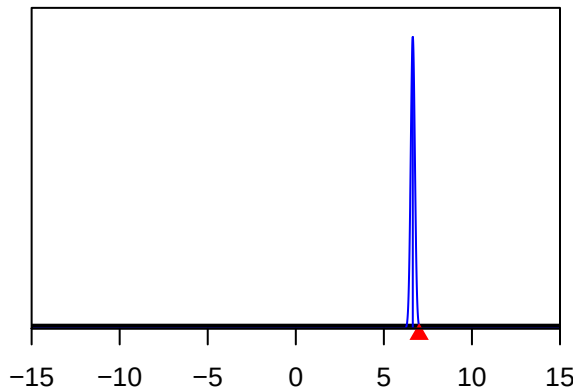
Size_DblN_peak_F19-DEL_P(19)



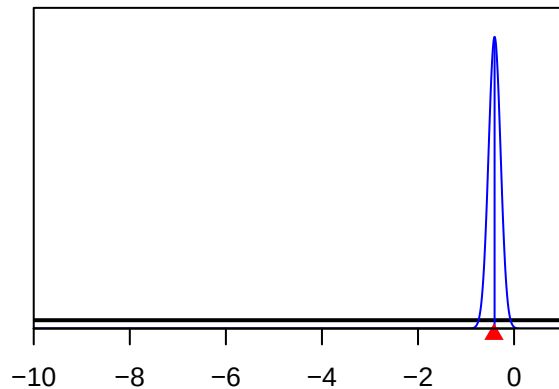
SizeSpline_GradLo_F22-BB(22)



Size_DblN_ascend_se_F19-DEL_P(19)

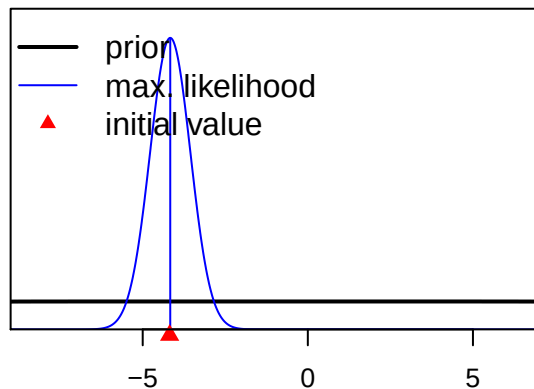


SizeSpline_GradHi_F22-BB(22)

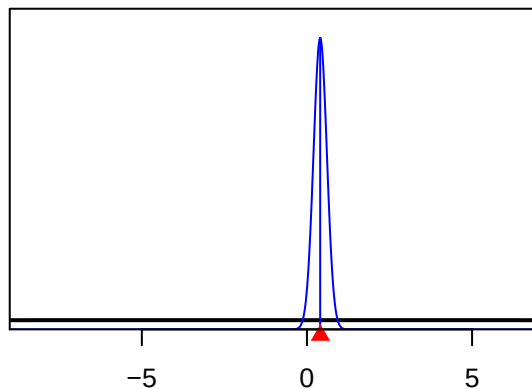


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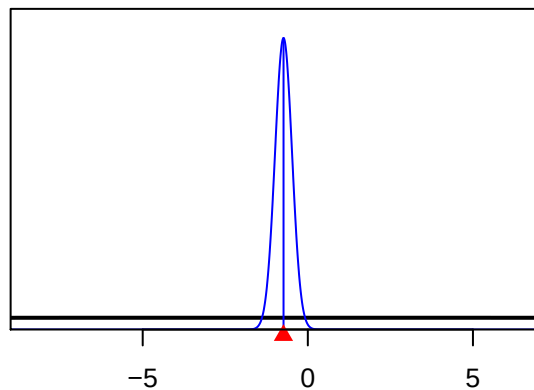
SizeSpline_Val_2_F22-BB(22)



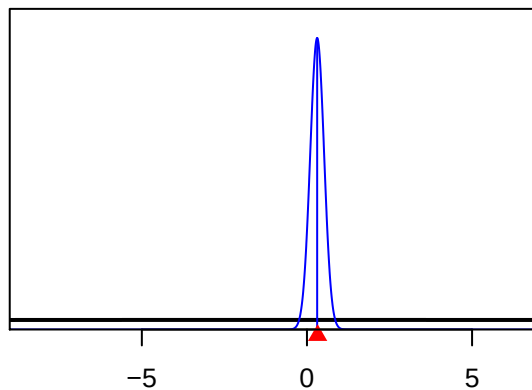
SizeSpline_Val_5_F22-BB(22)



SizeSpline_Val_3_F22-BB(22)

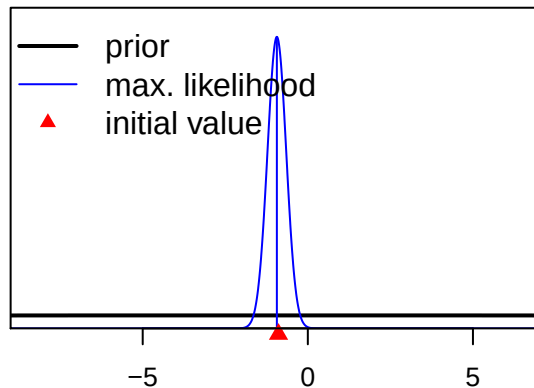


SizeSpline_Val_6_F22-BB(22)

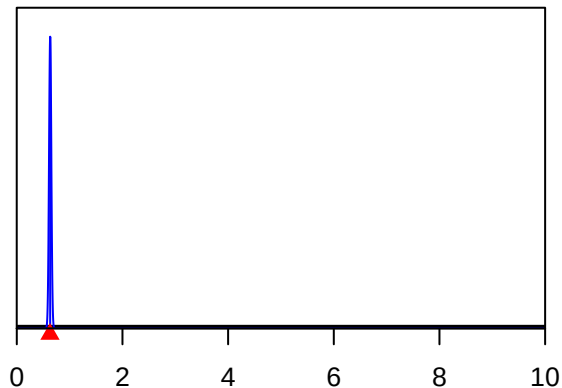


Parameter value

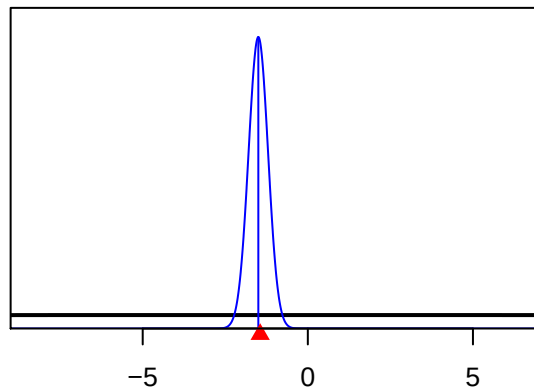
SizeSpline_Val_7_F22-BB(22)



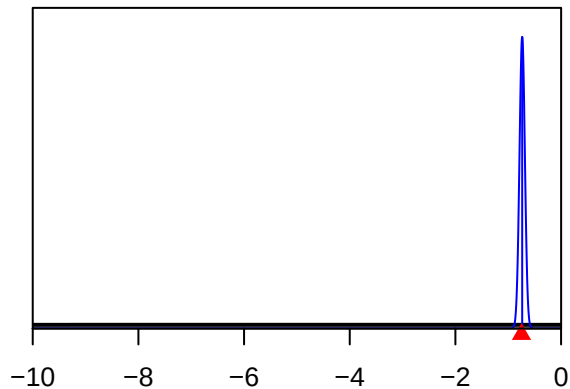
SizeSpline_GradLo_S1-PS_DEL_VAST(41)



SizeSpline_Val_8_F22-BB(22)

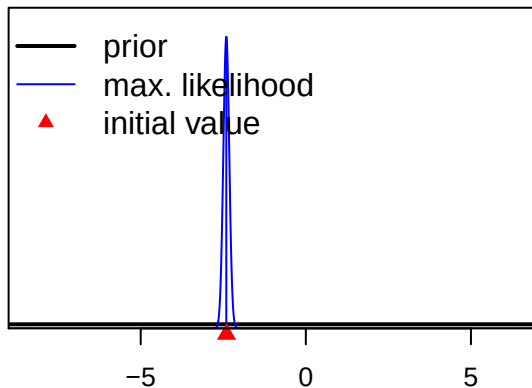


SizeSpline_GradHi_S1-PS_DEL_VAST(41)

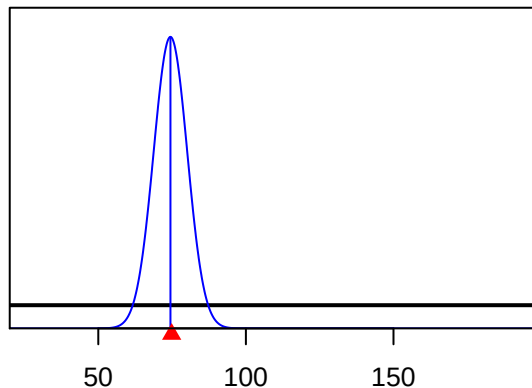


Parameter value

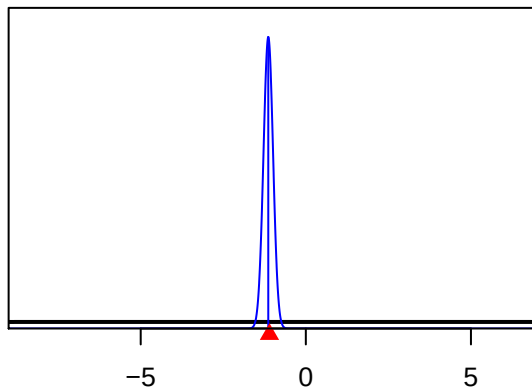
SizeSpline_Val_2_S1-PS_DEL_VAST(41)



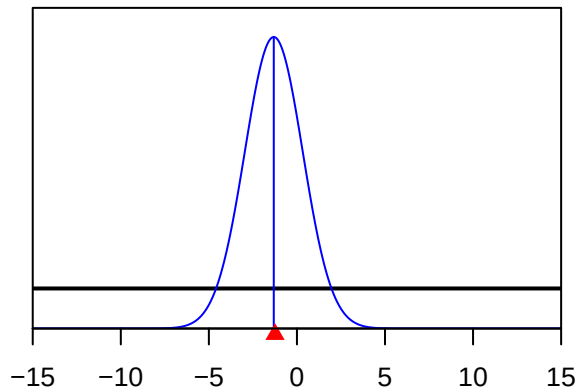
Size_DblN_peak_F18-DEL_C(18)_BLK2repl_11



SizeSpline_Val_4_S1-PS_DEL_VAST(41)



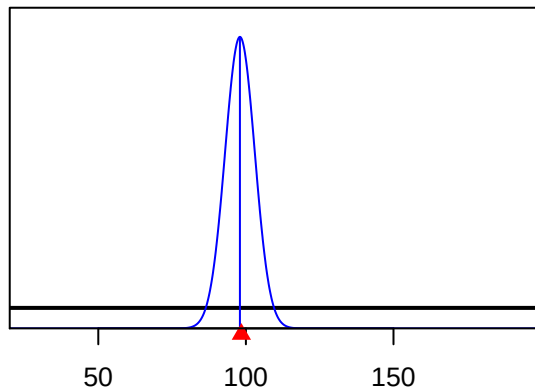
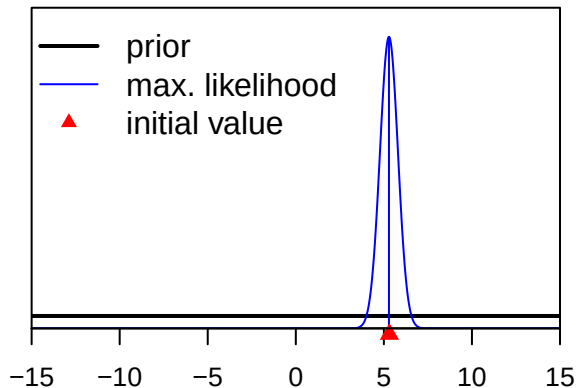
Size_DblN_top_logit_F18-DEL_C(18)_BLK2repl_11



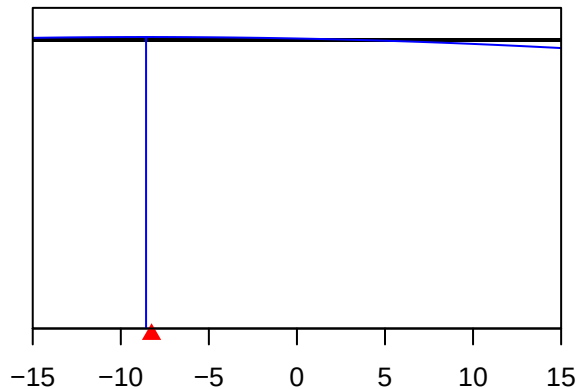
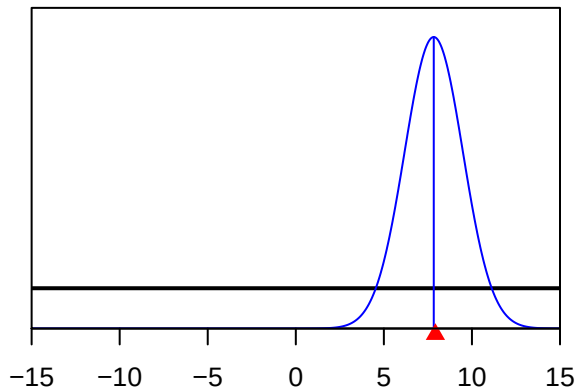
Parameter value

DbIN_ascend_se_F18-DEL_C(18)_BLK2repl_Size DbIN_peak_F19-DEL_P(19)_BLK2repl_11

Density

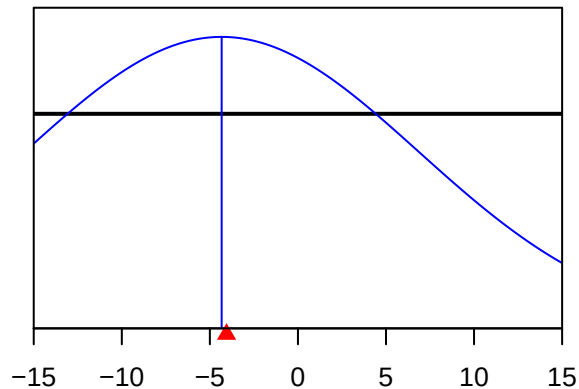
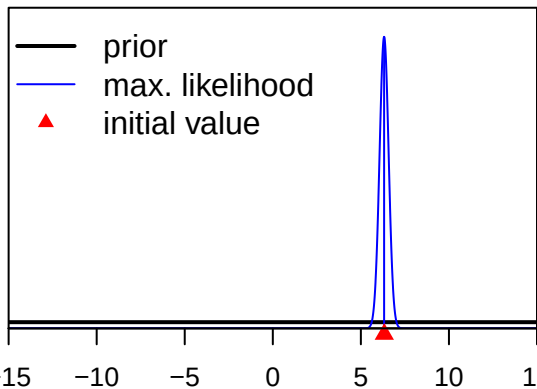


DbIN_descend_se_F18-DEL_C(18)_BLK2repl_Size DbIN_top_logit_F19-DEL_P(19)_BLK2repl_11

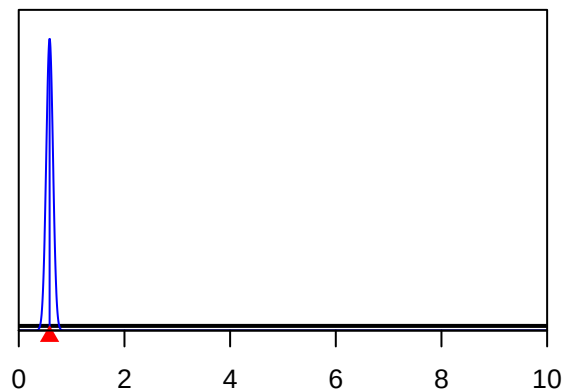
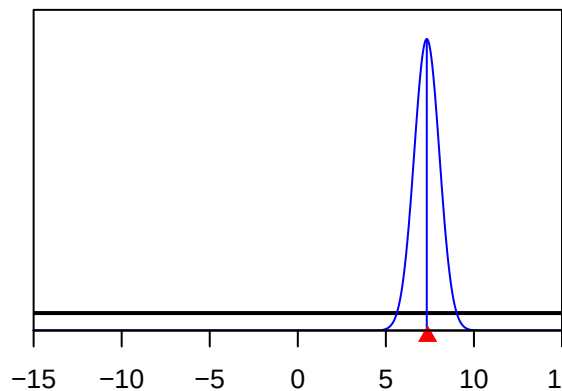


Parameter value

DbIN_ascend_se_F19-DEL_P(19)_BLK2repl_e DbIN_end_logit_F19-DEL_P(19)_BLK2repl_1

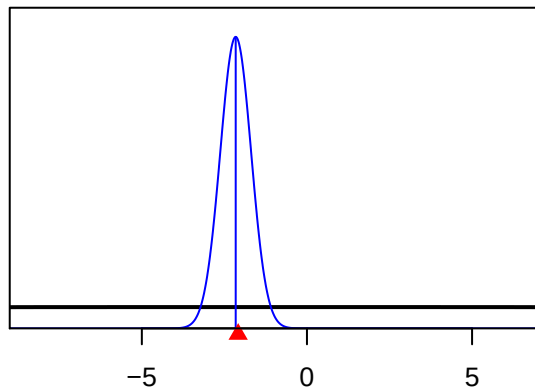
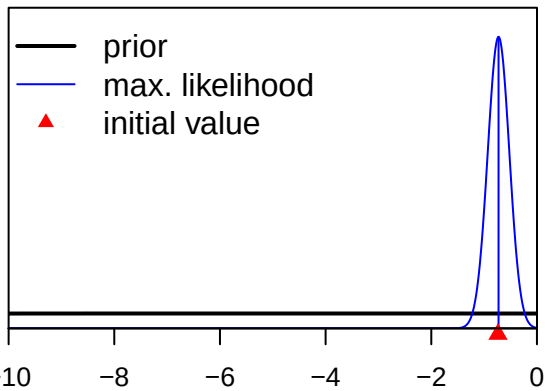


DbIN_descend_se_F19-DEL_P(19)_BLK2repl_pline_GradLo_S1-PS_DEL_VAST(41)_BLK2repl_1

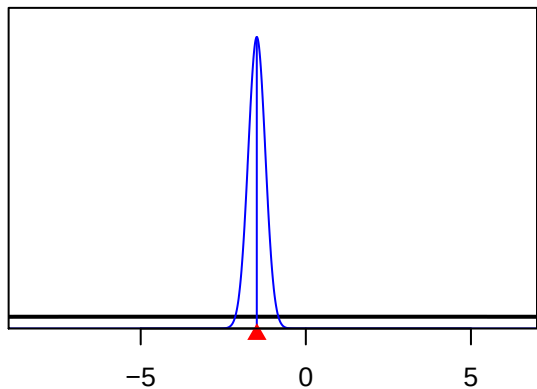


Parameter value

Spline_GradHi_S1-PS_DEL_VAST(41)_BLK2repSpline_Val_4_S1-PS_DEL_VAST(41)_BLK2repl



Spline_Val_3_S1-PS_DEL_VAST(41)_BLK2repl



Parameter value