

EPO yellowfin tuna
Benchmark assessment 2020
model: TBE.DS, $h = 0.7$

Plots created using the 'r4ss' package in R

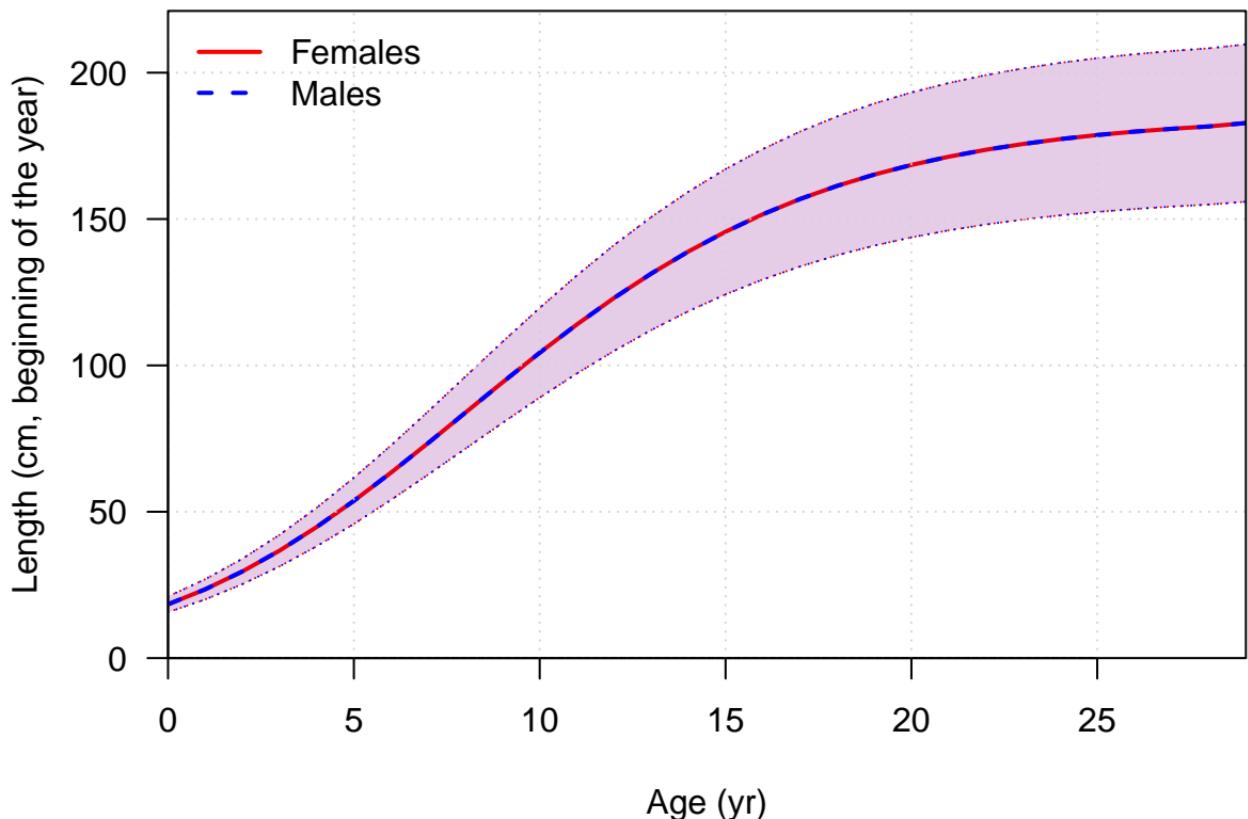
Stock Synthesis version: 3.30.15.0

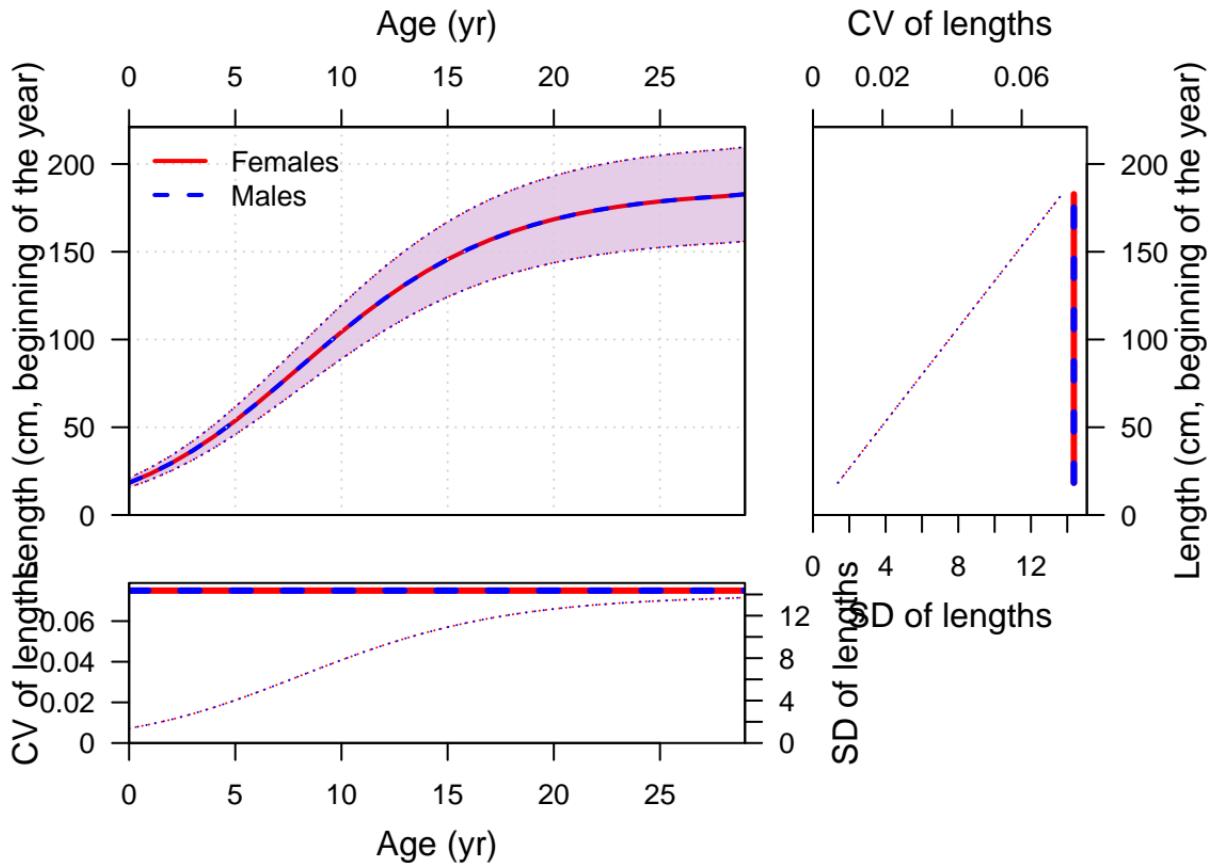
StartTime: Mon Jul 20 19:20:21 2020

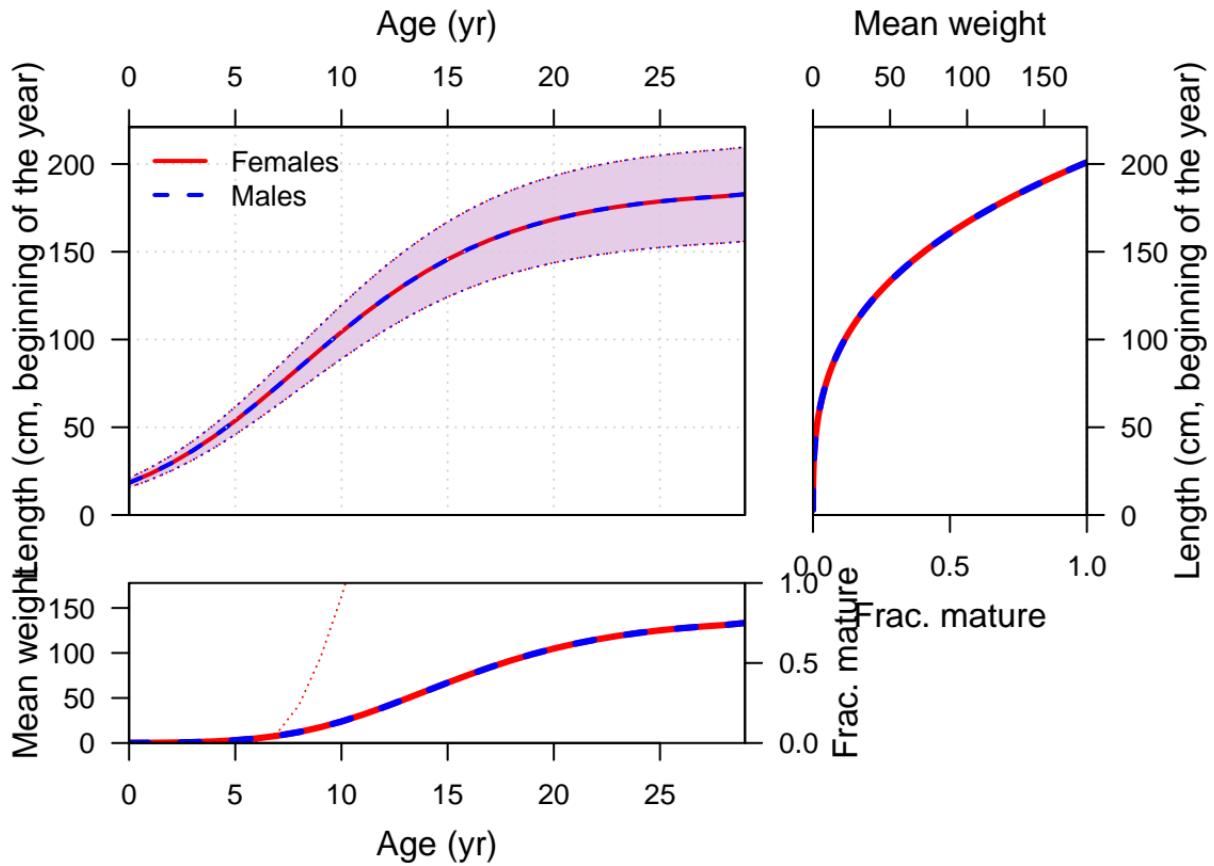
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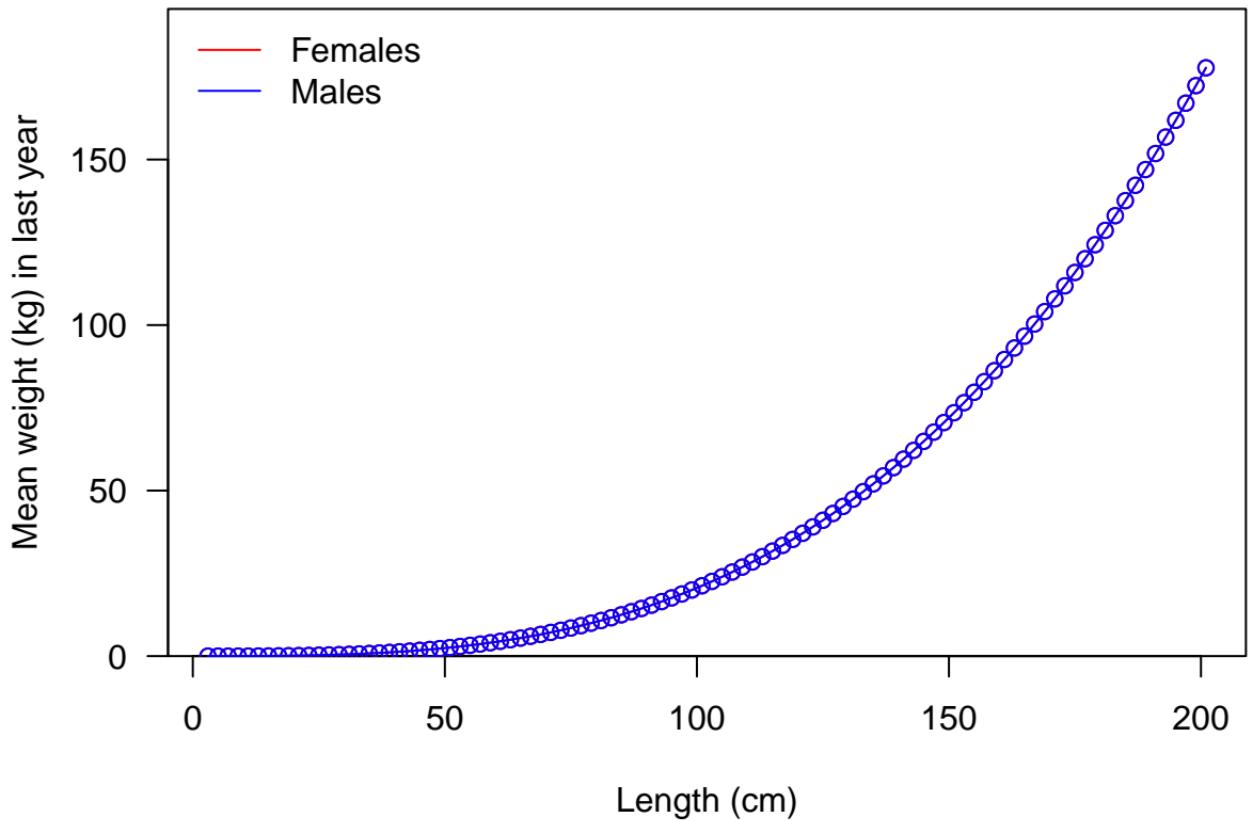
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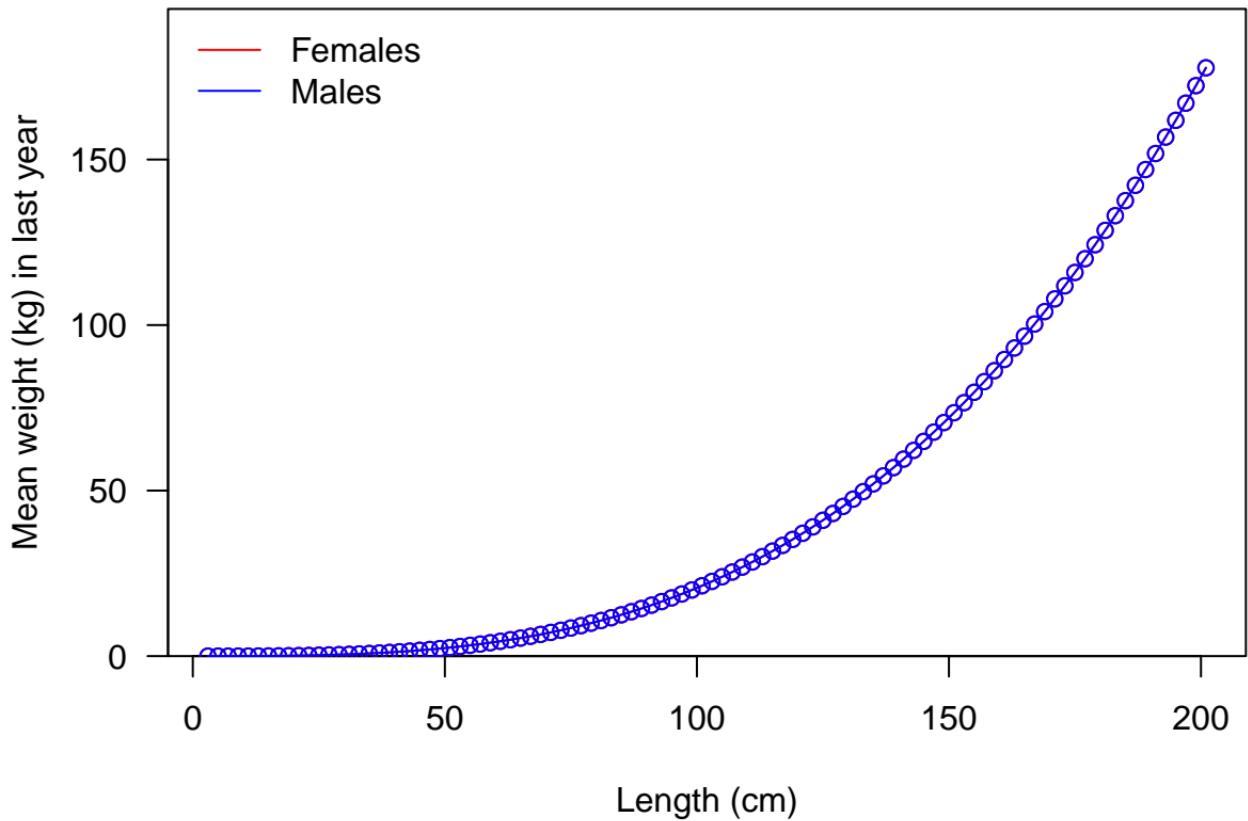
Ending year expected growth (with 95% intervals)

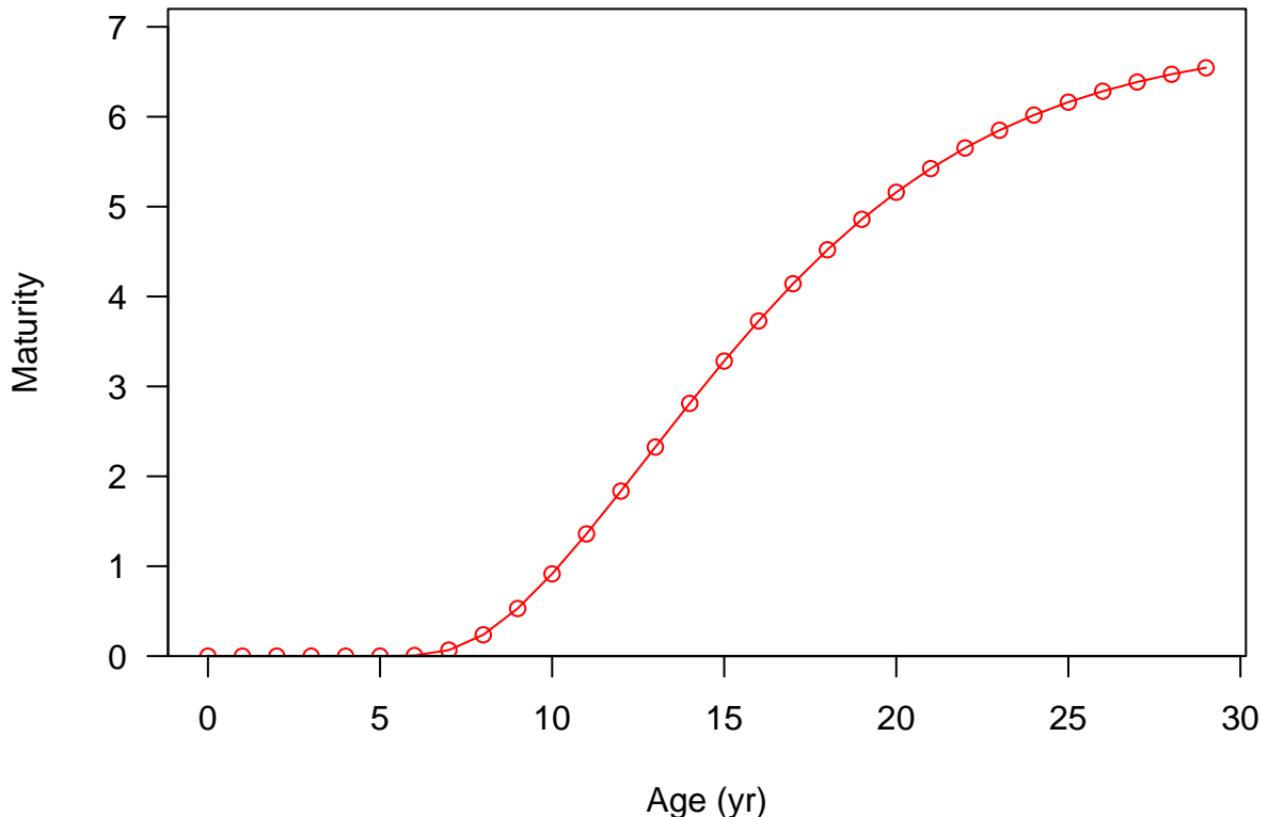


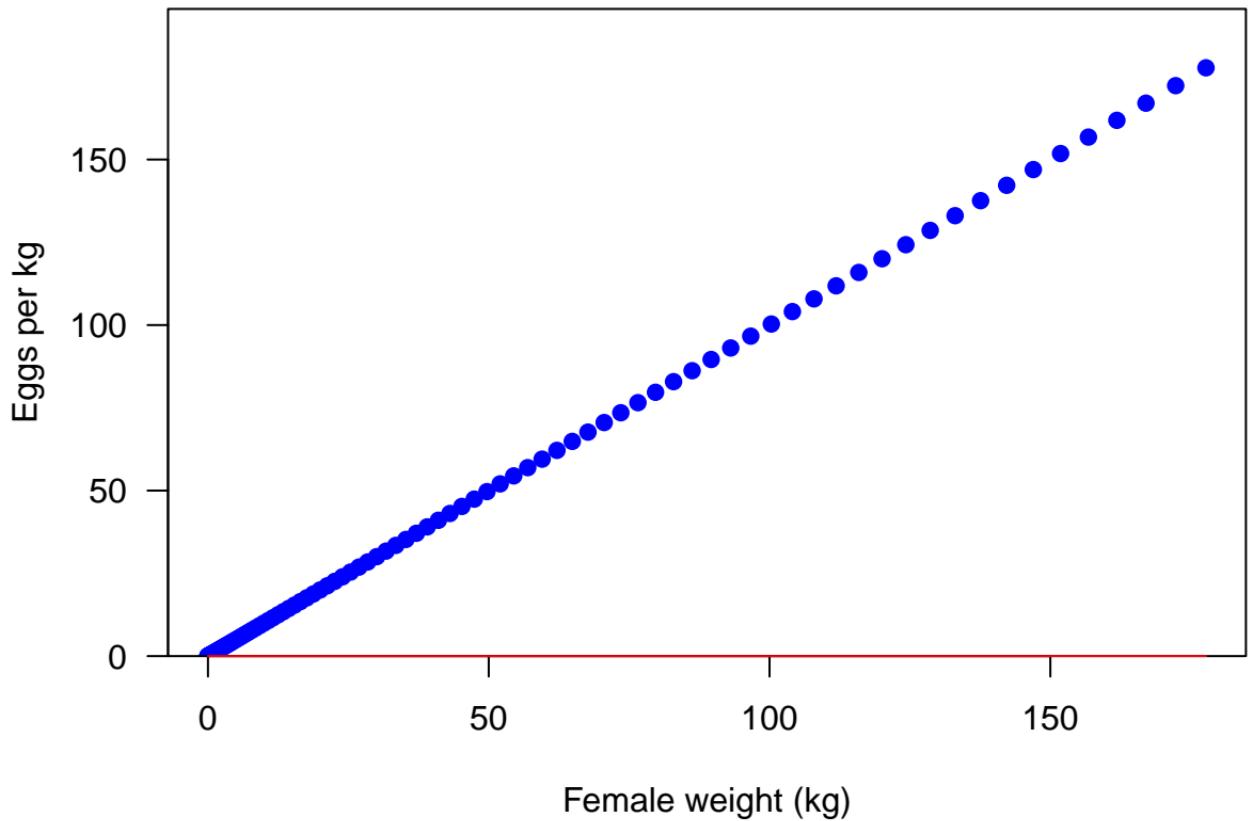


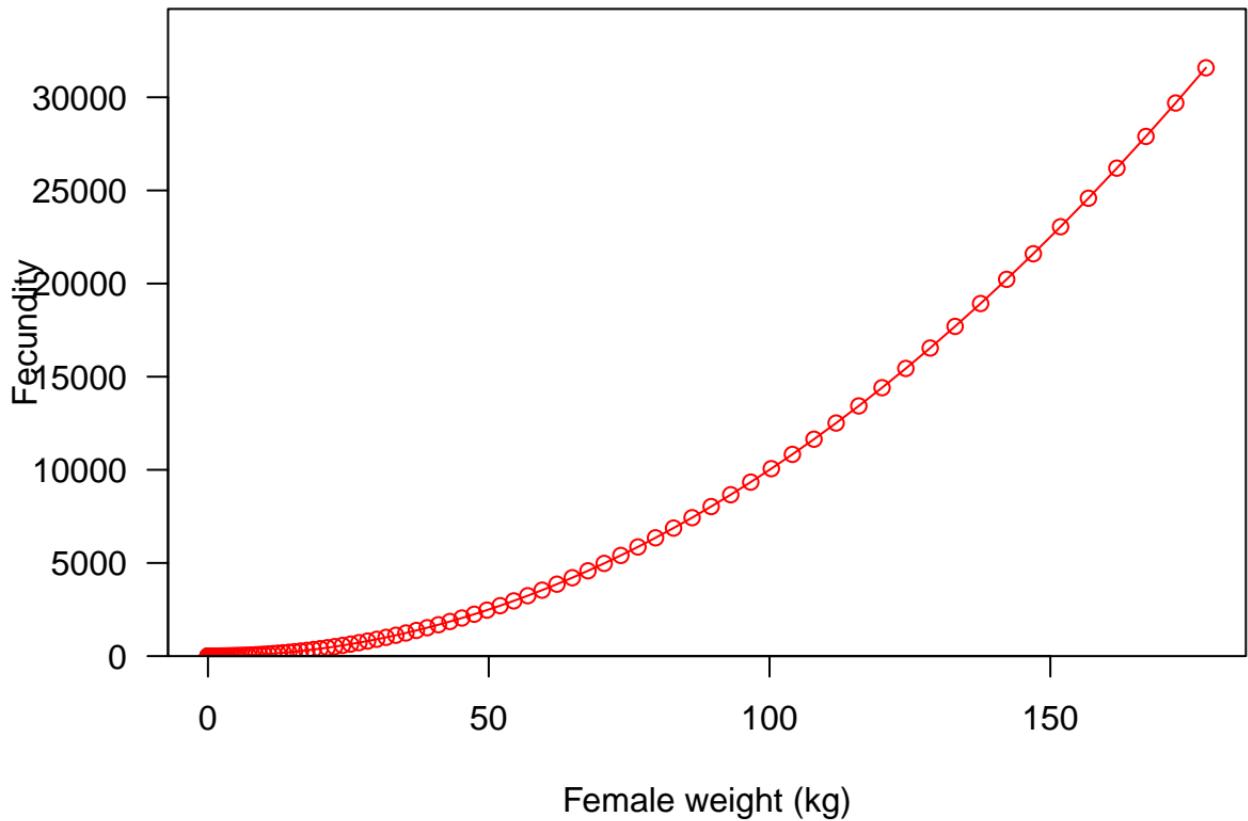


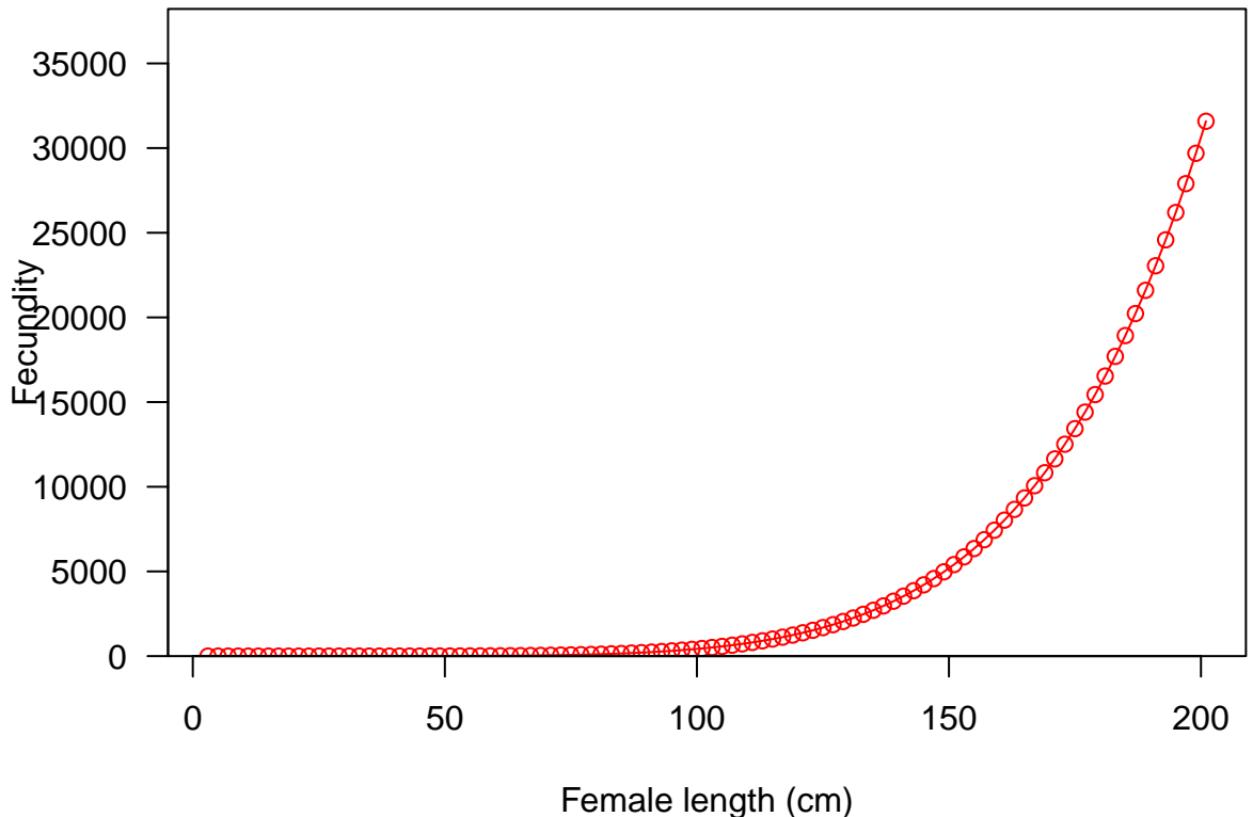


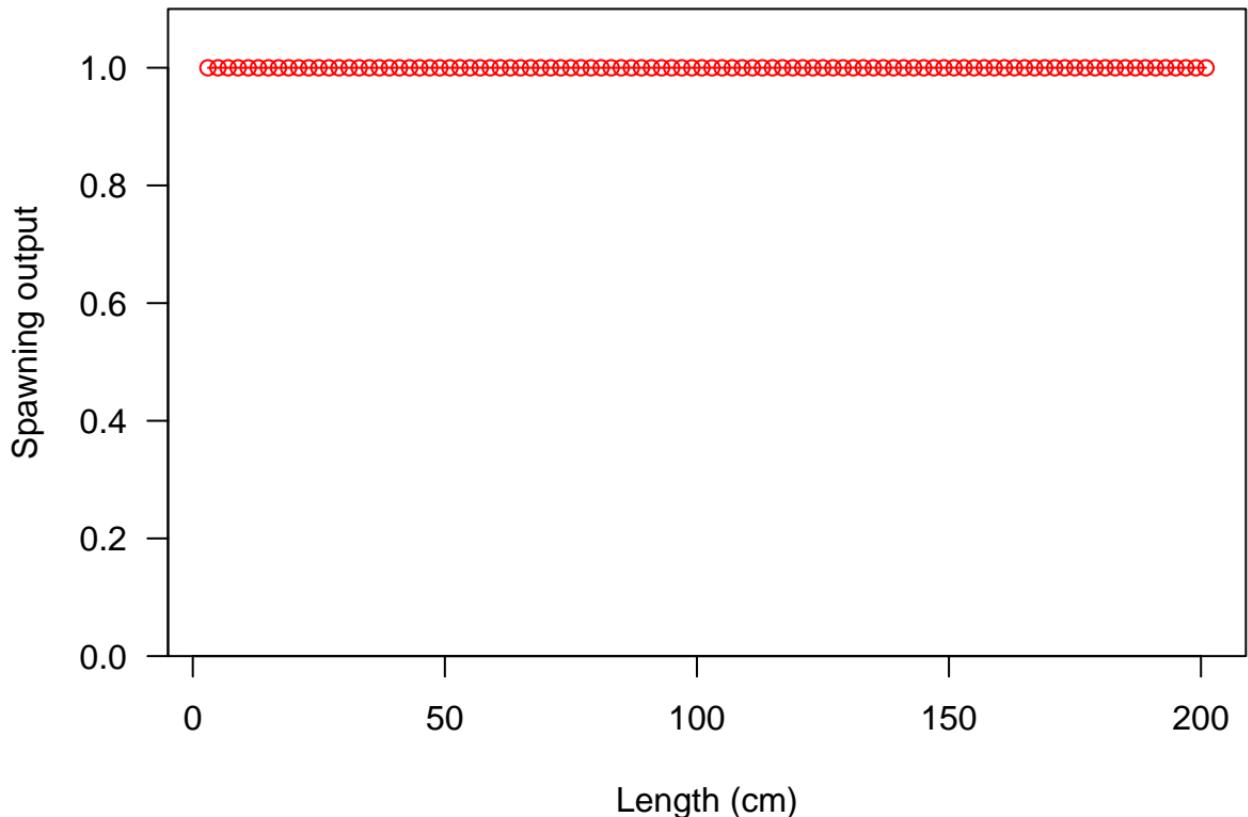


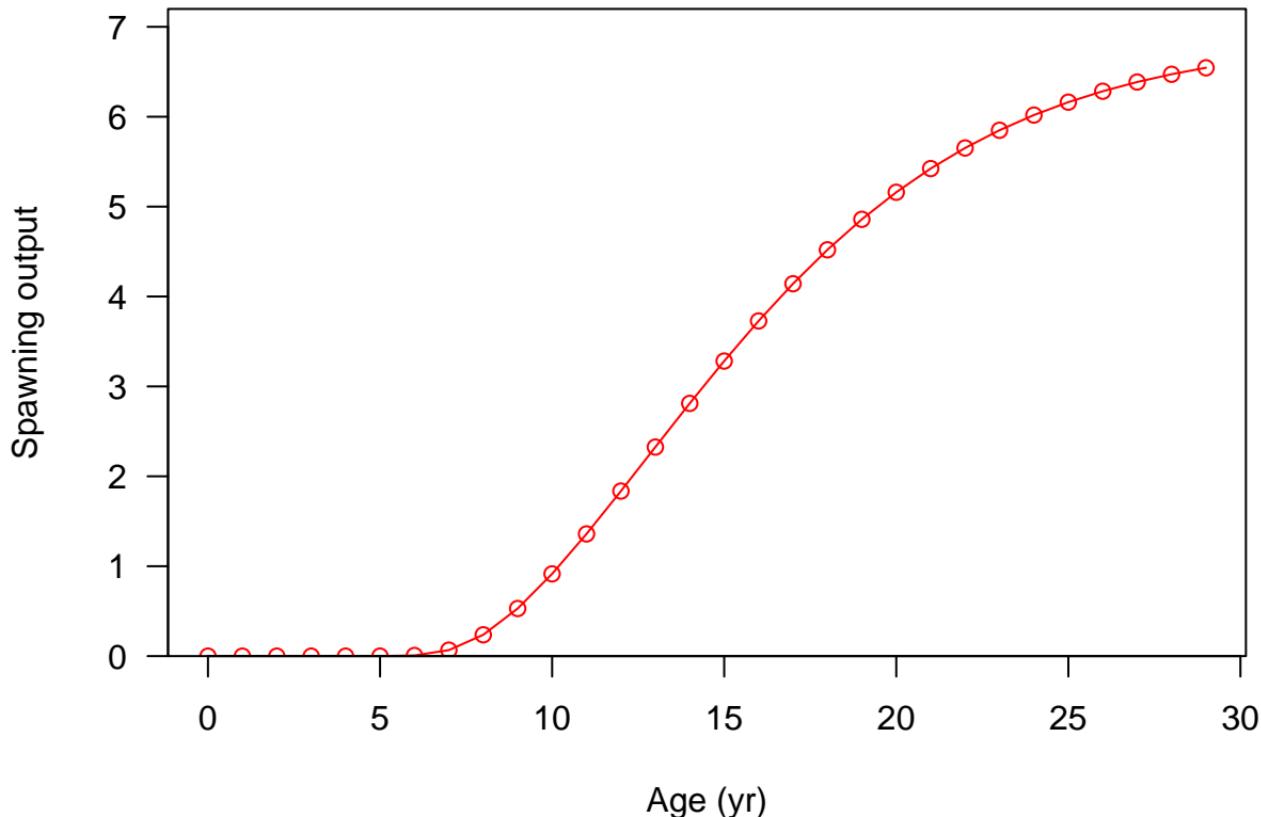




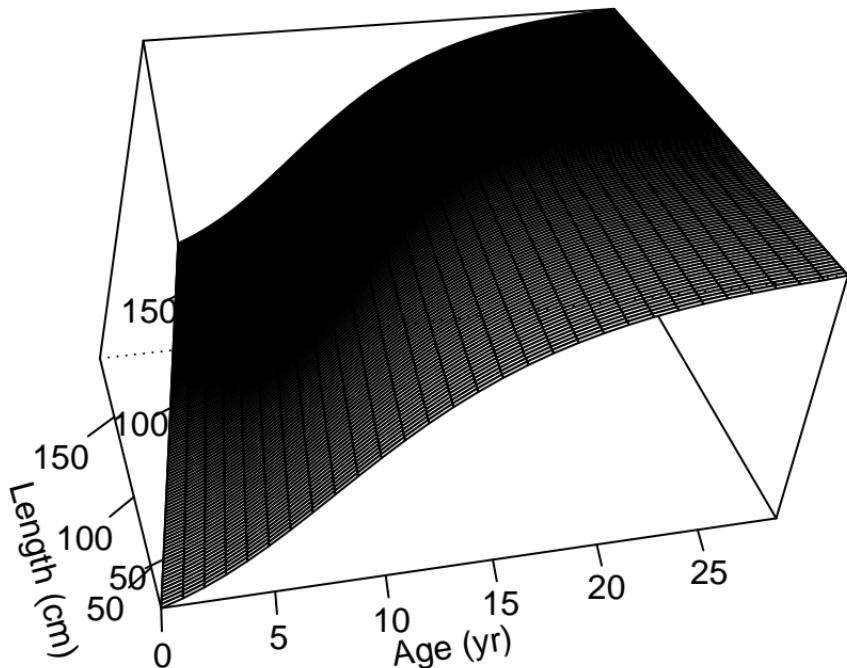




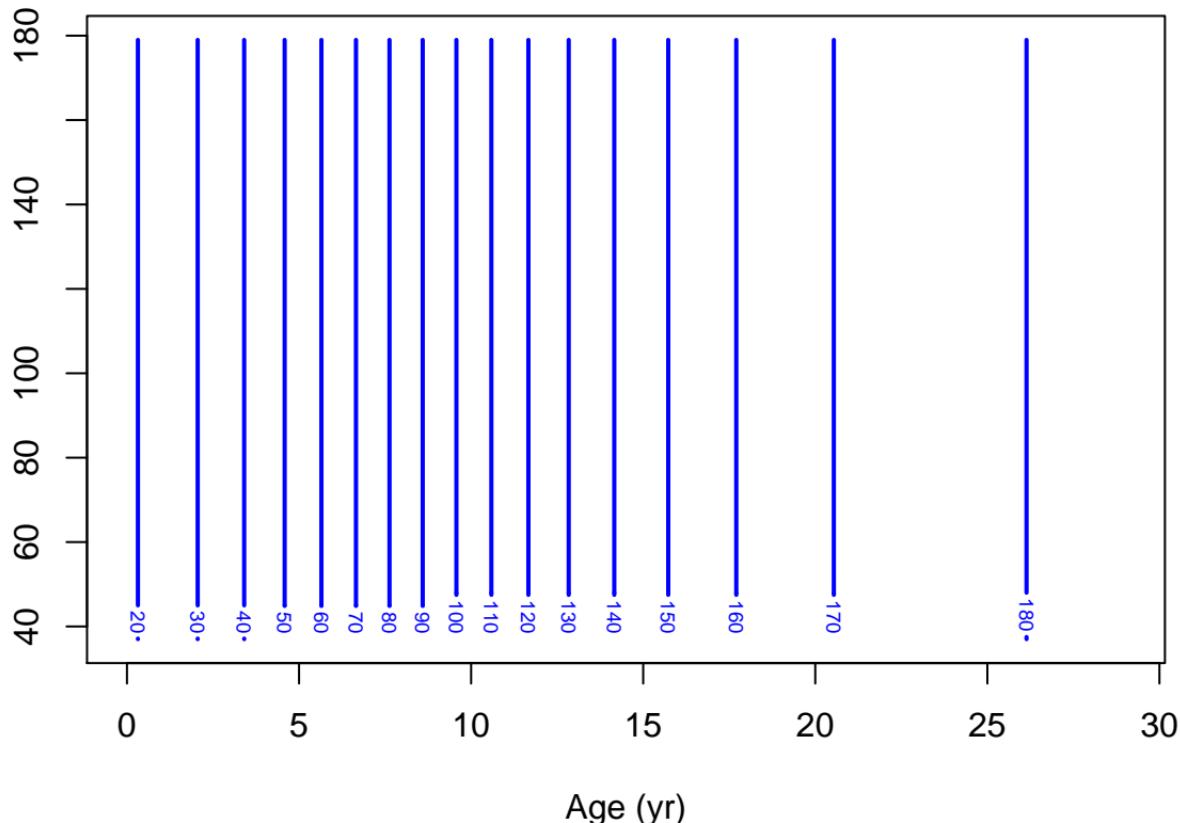




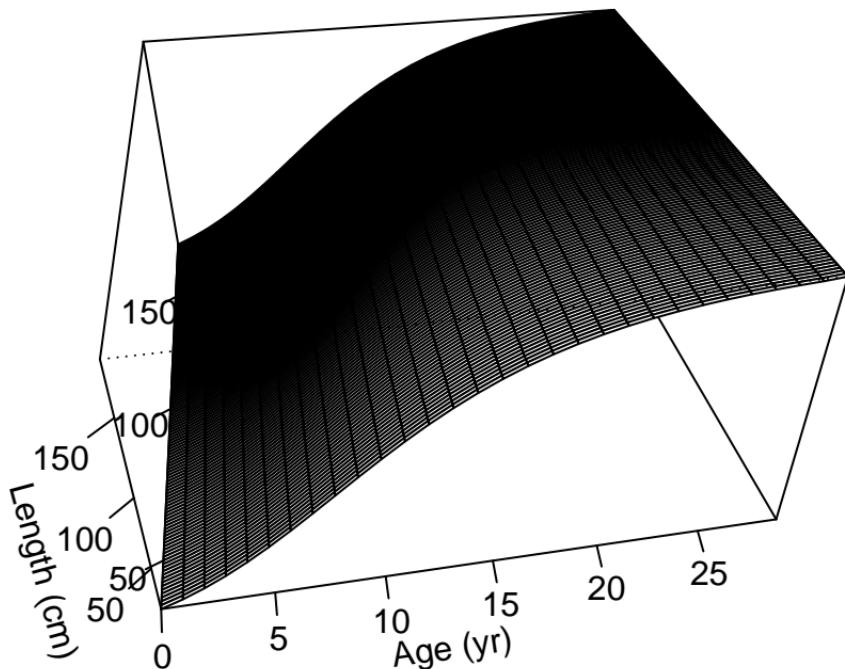
Female time-varying growth



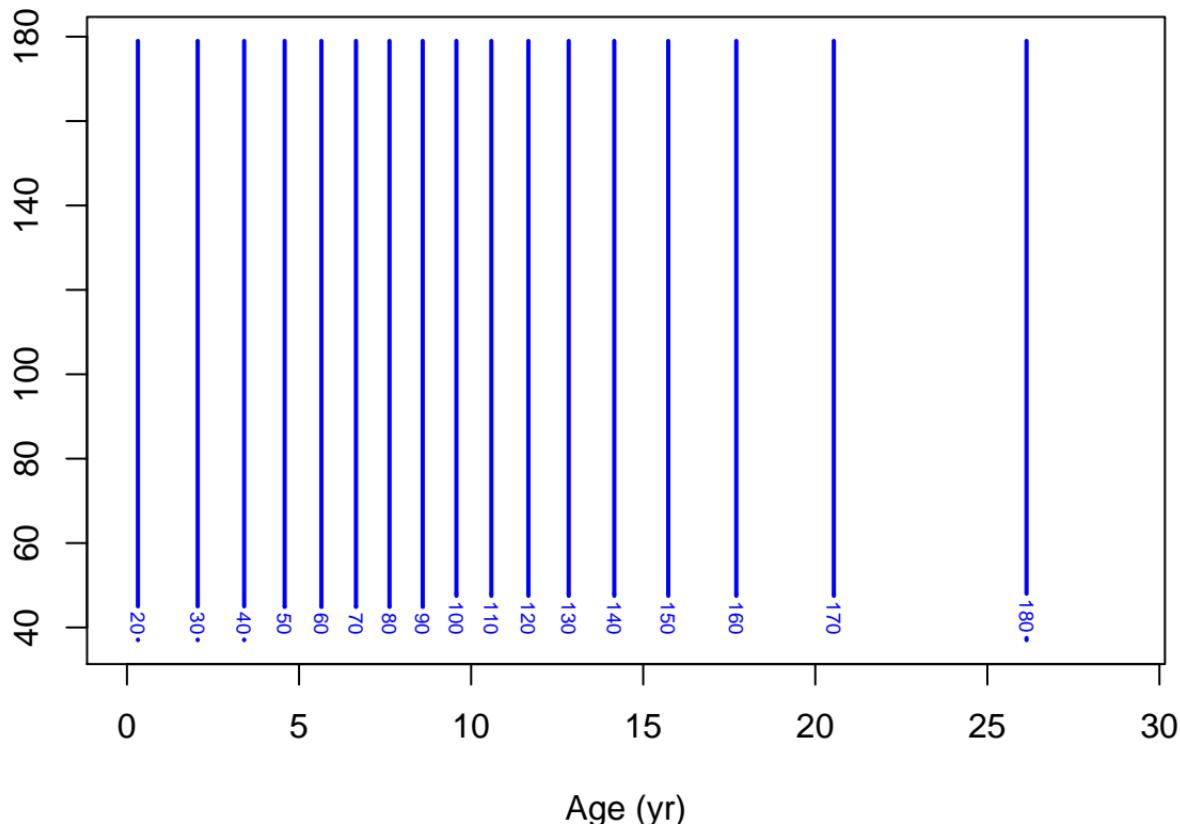
Female time-varying growth



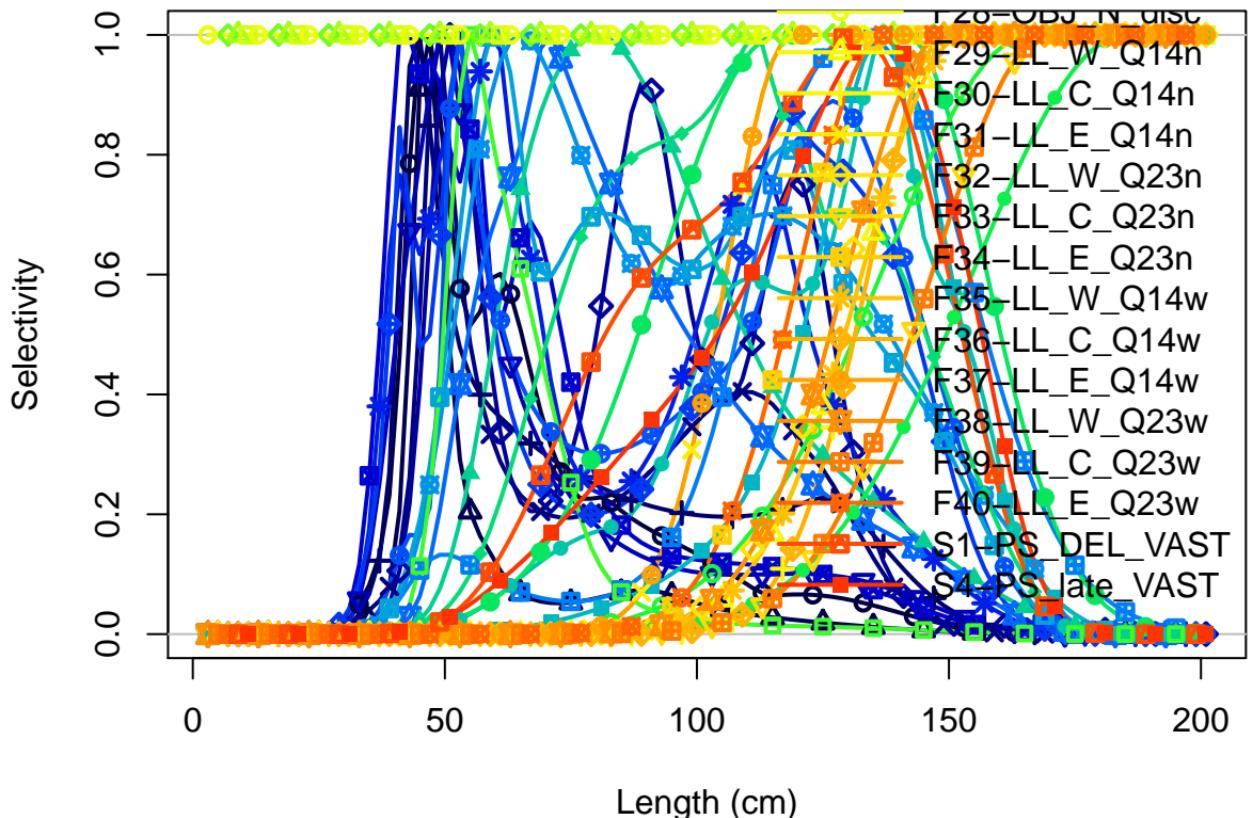
Male time-varying growth



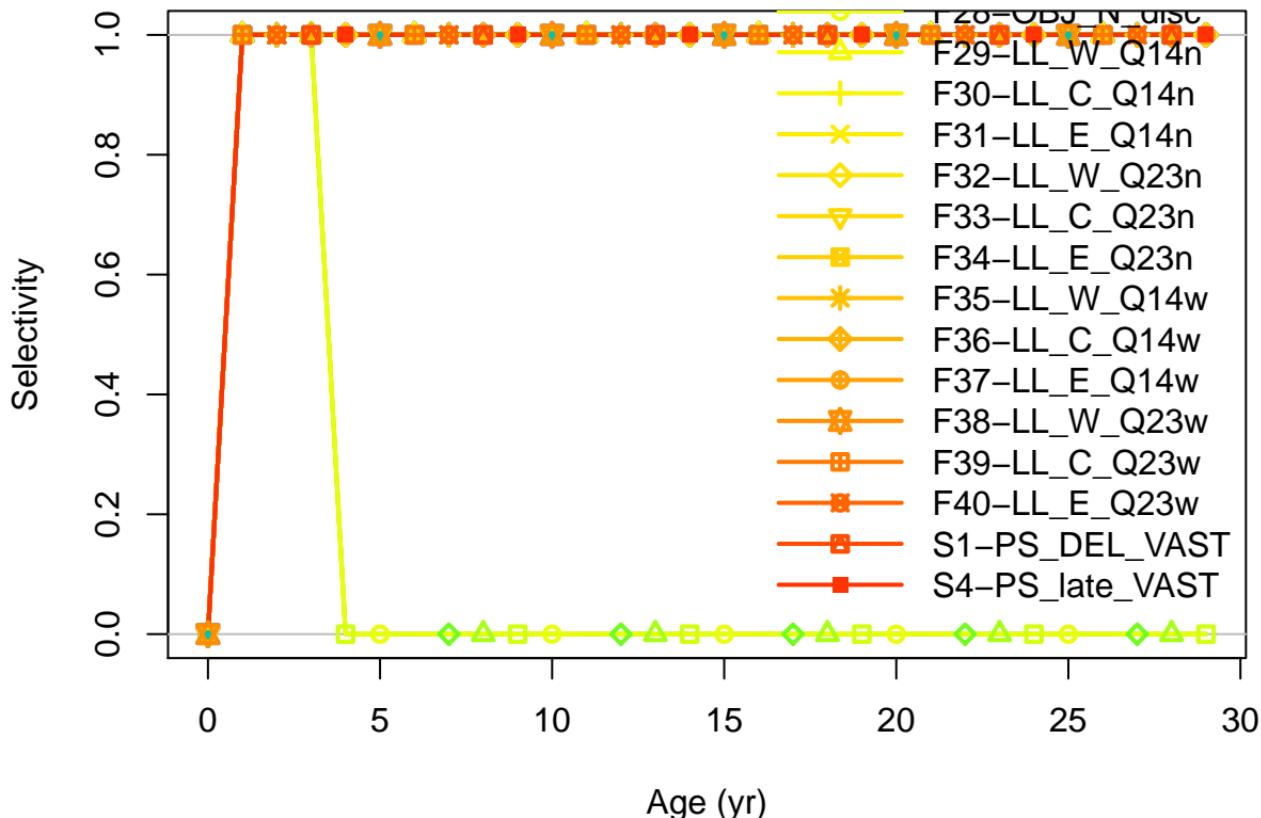
Male time-varying growth



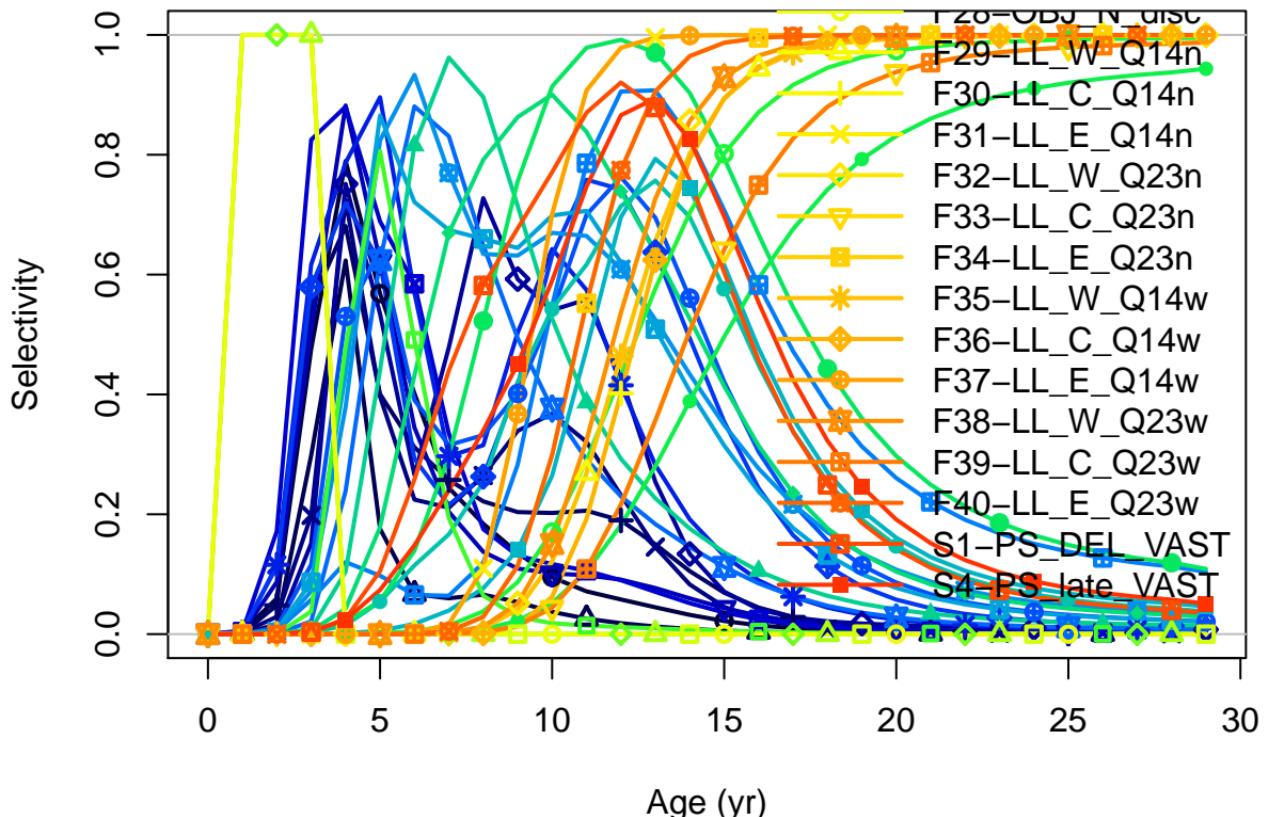
Length-based selectivity by fleet in 180



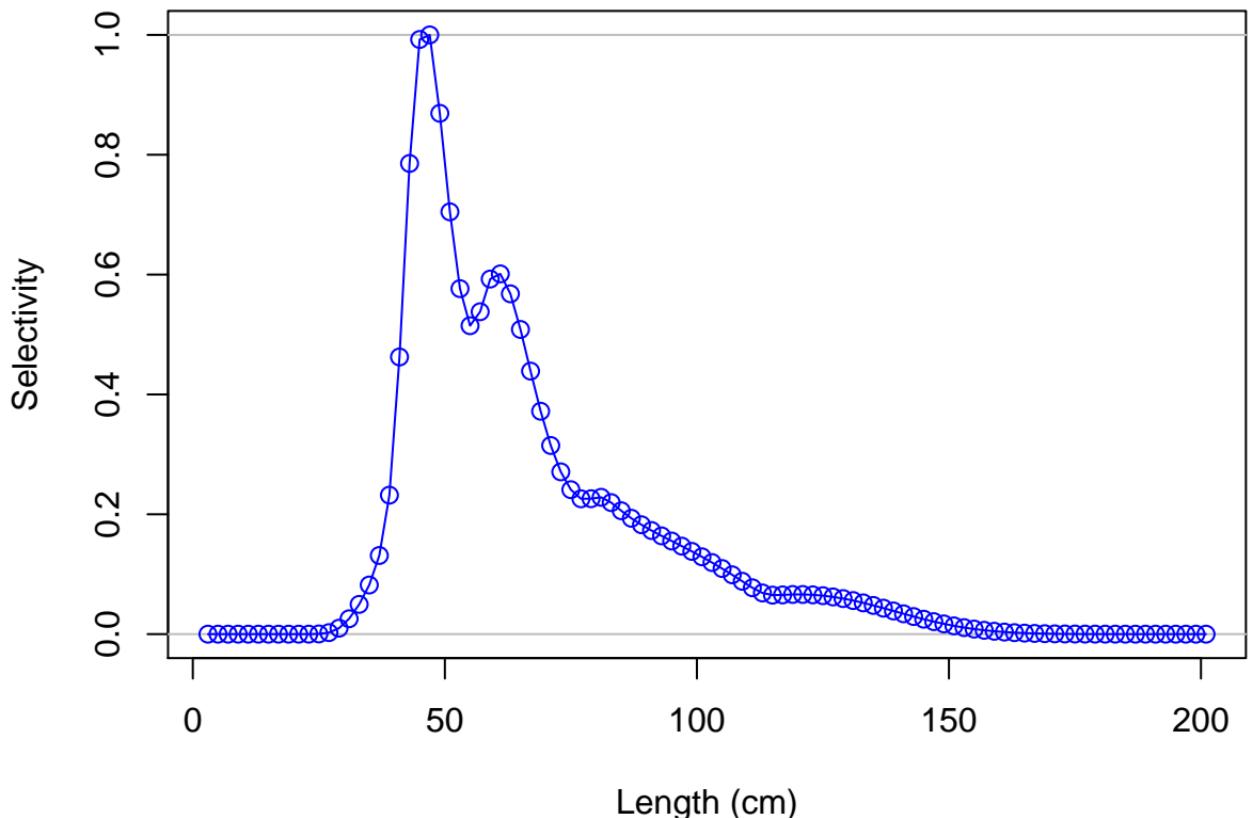
Age-based selectivity by fleet in 180



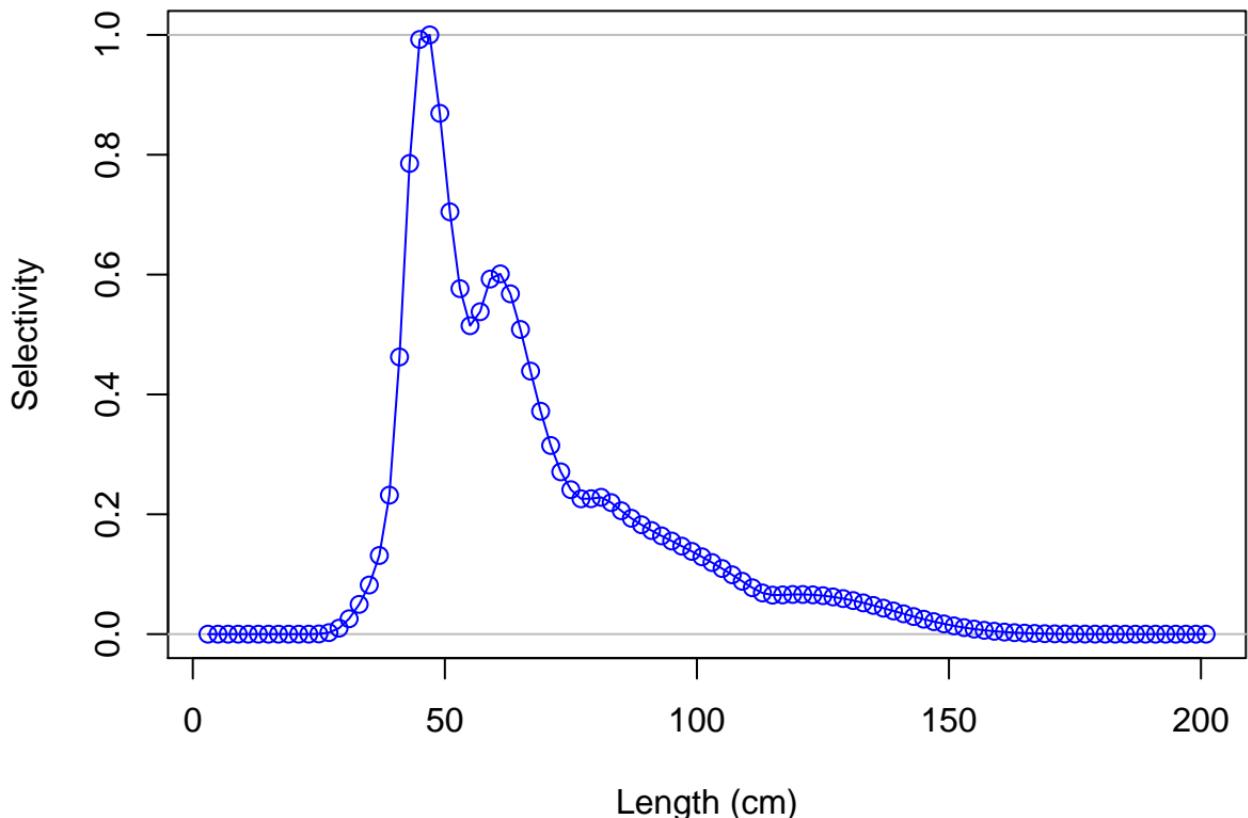
Derived age-based from length-based selectivity by fleet in 180



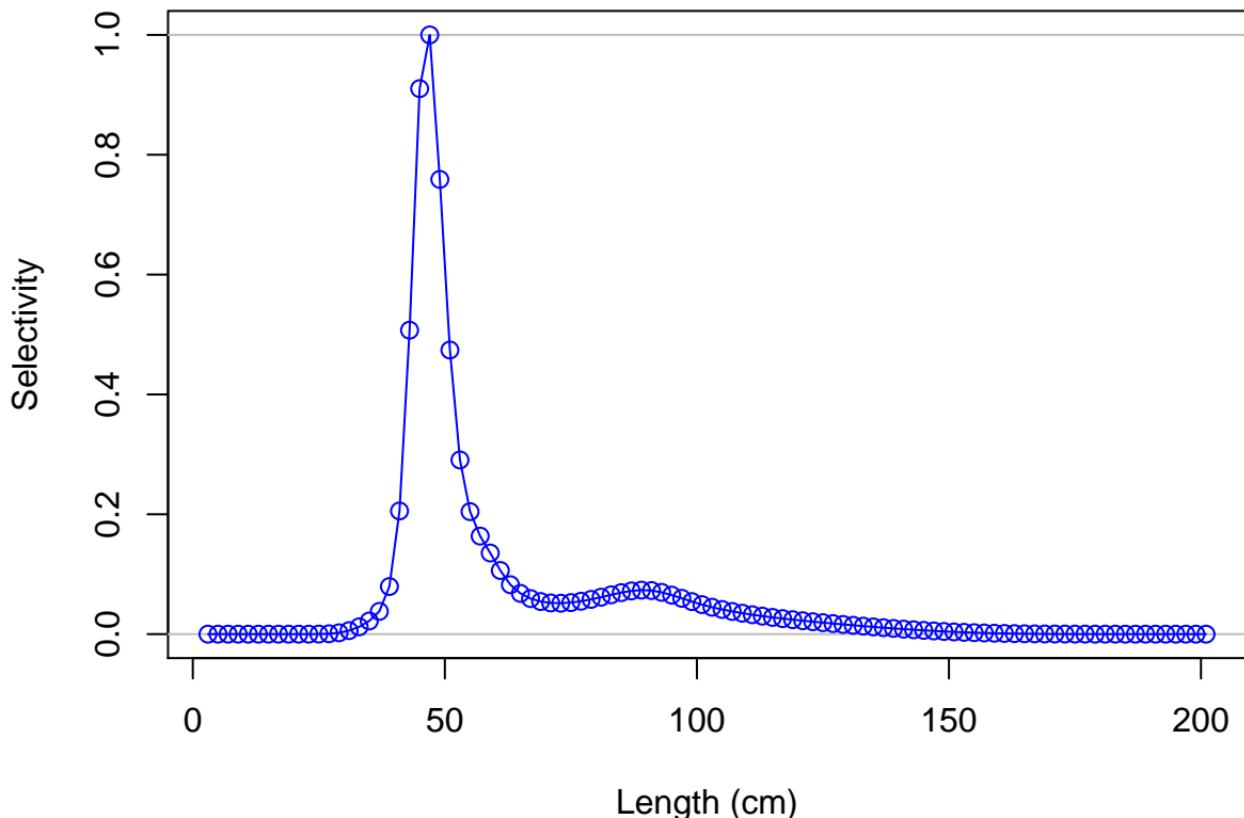
Female ending year selectivity for F1–OBJ_N–Q14



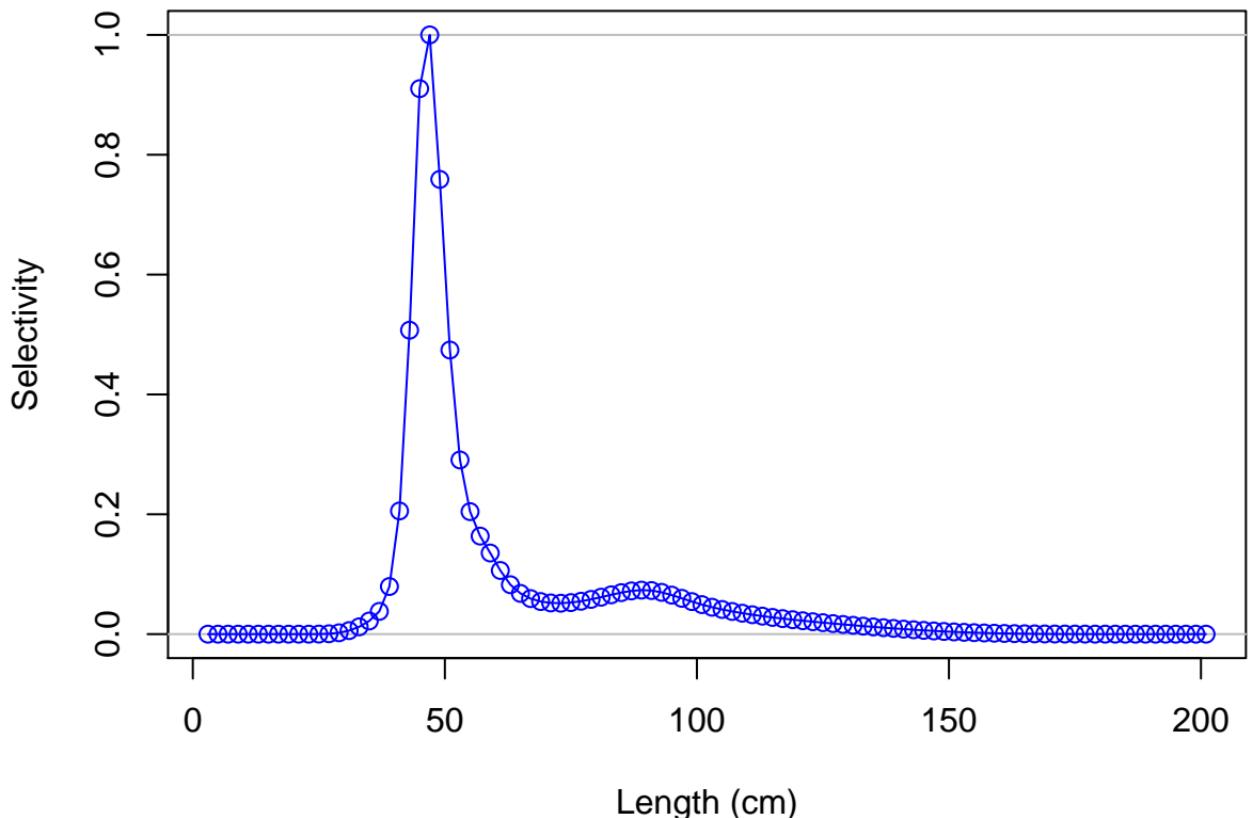
Male ending year selectivity for F1–OBJ_N–Q14



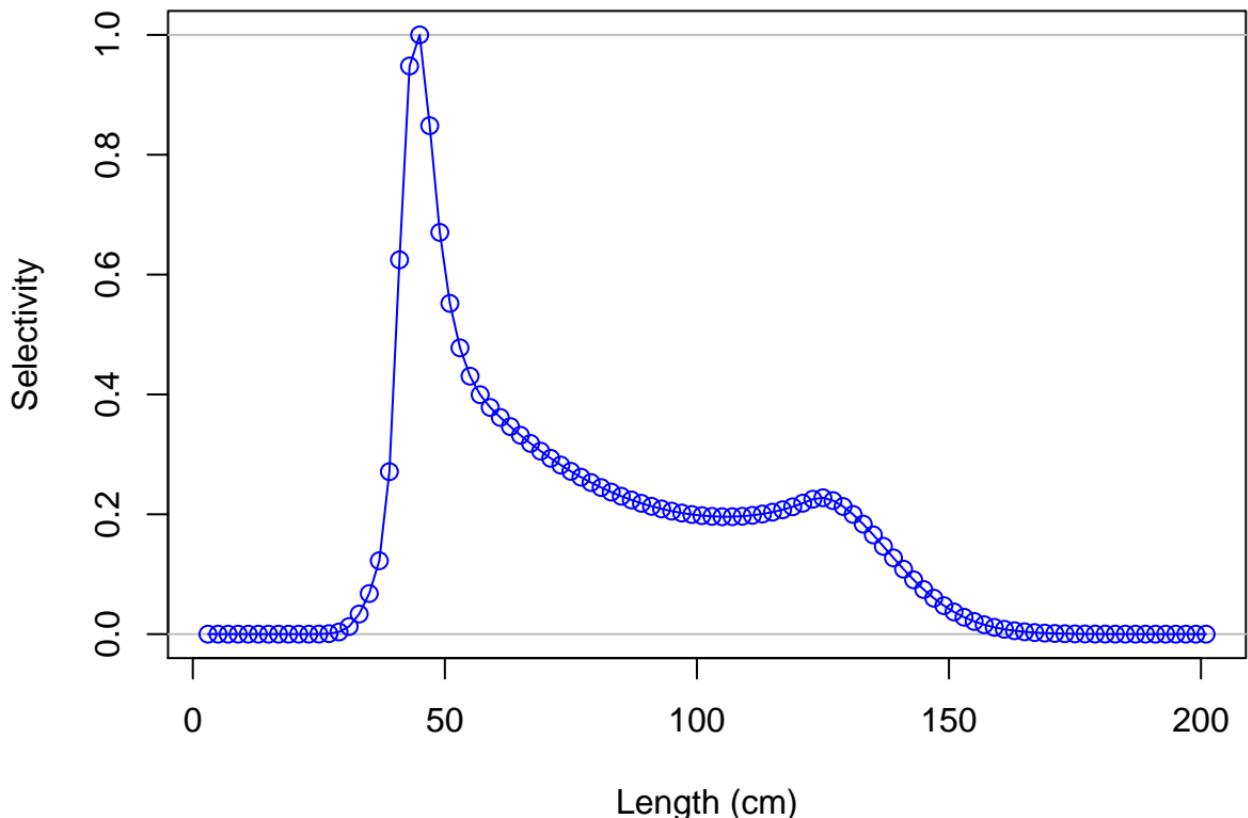
Female ending year selectivity for F2-OBJ_Nc_Q14



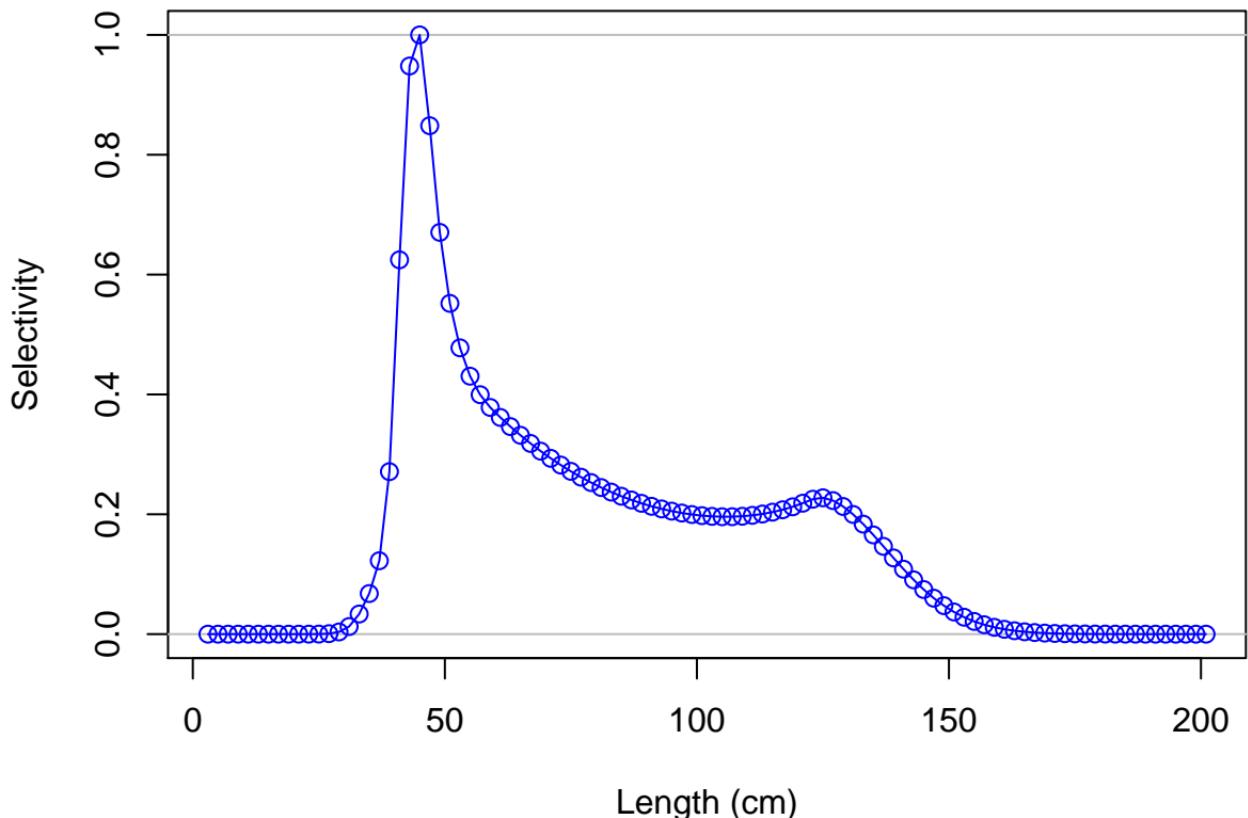
Male ending year selectivity for F2–OBJ_Nc_Q14



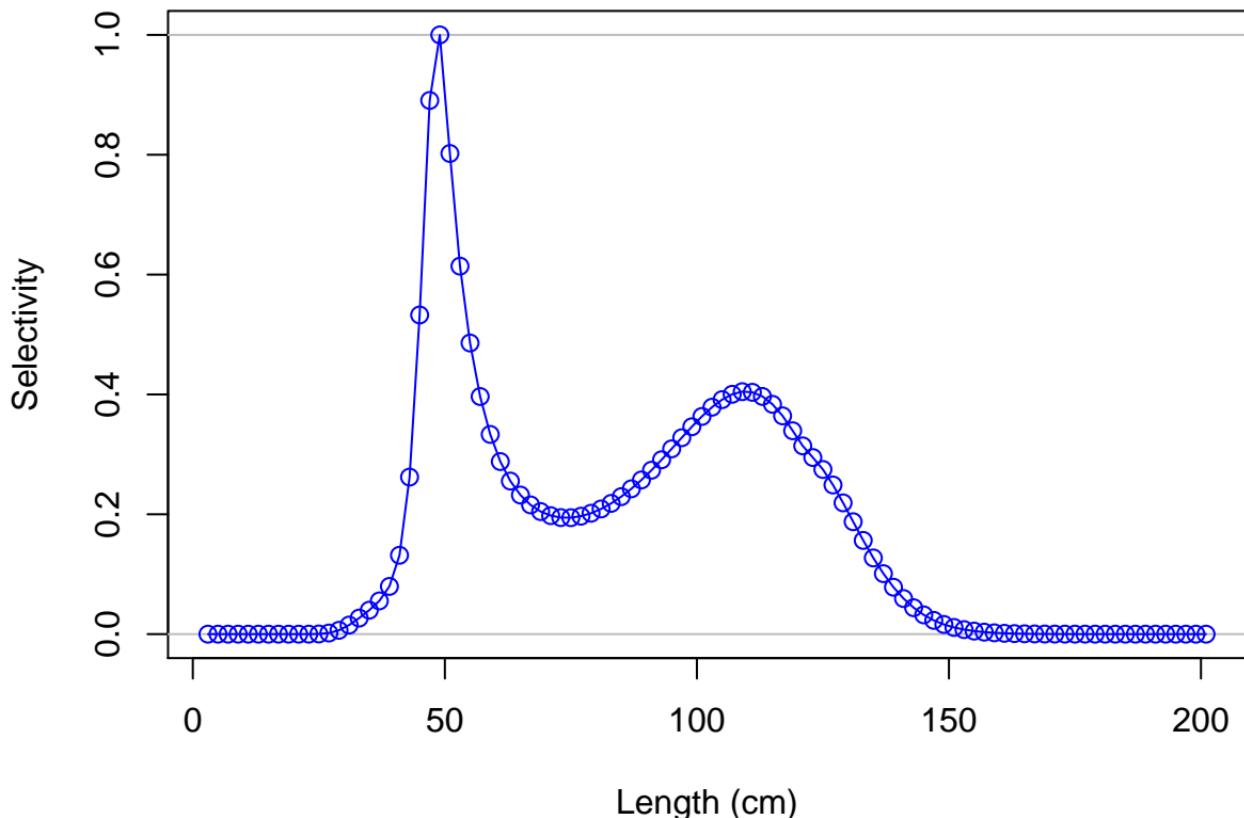
Female ending year selectivity for F3–OBJ_C_Q14



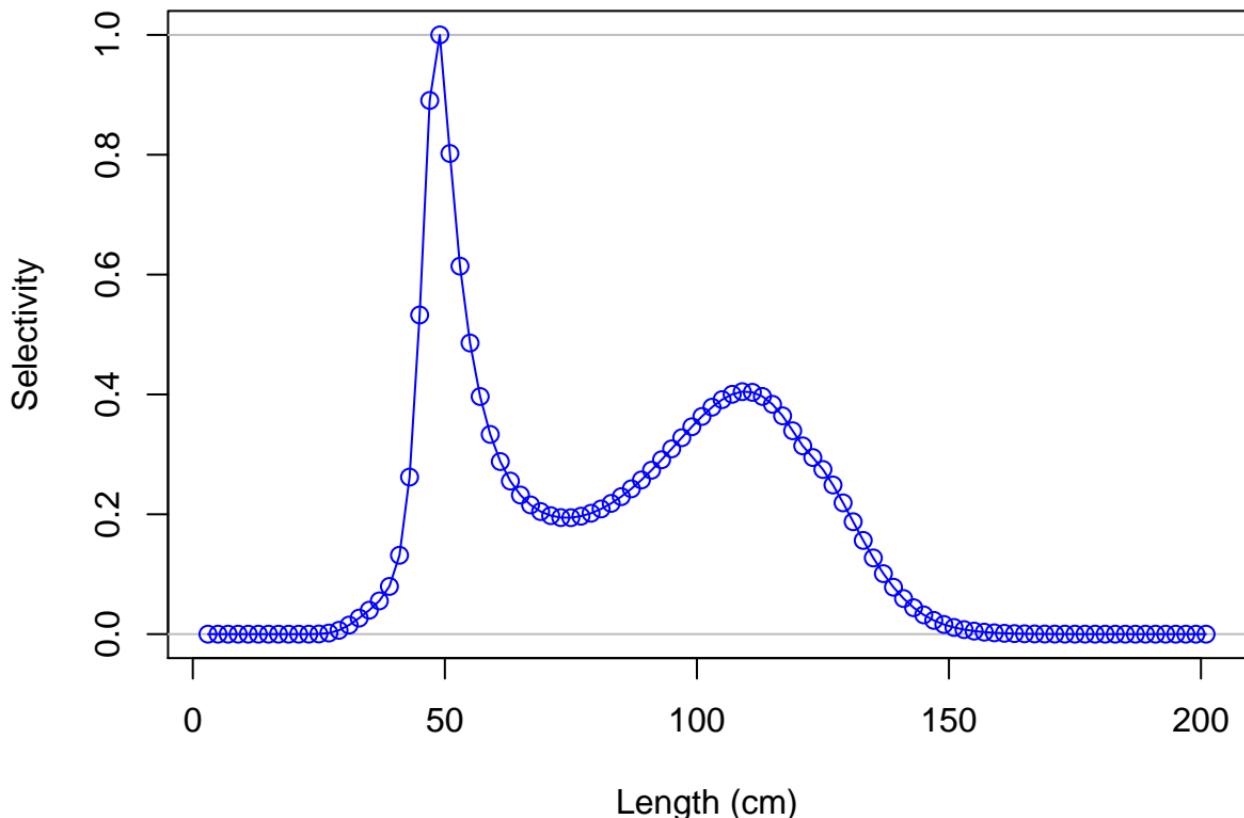
Male ending year selectivity for F3–OBJ_C_Q14



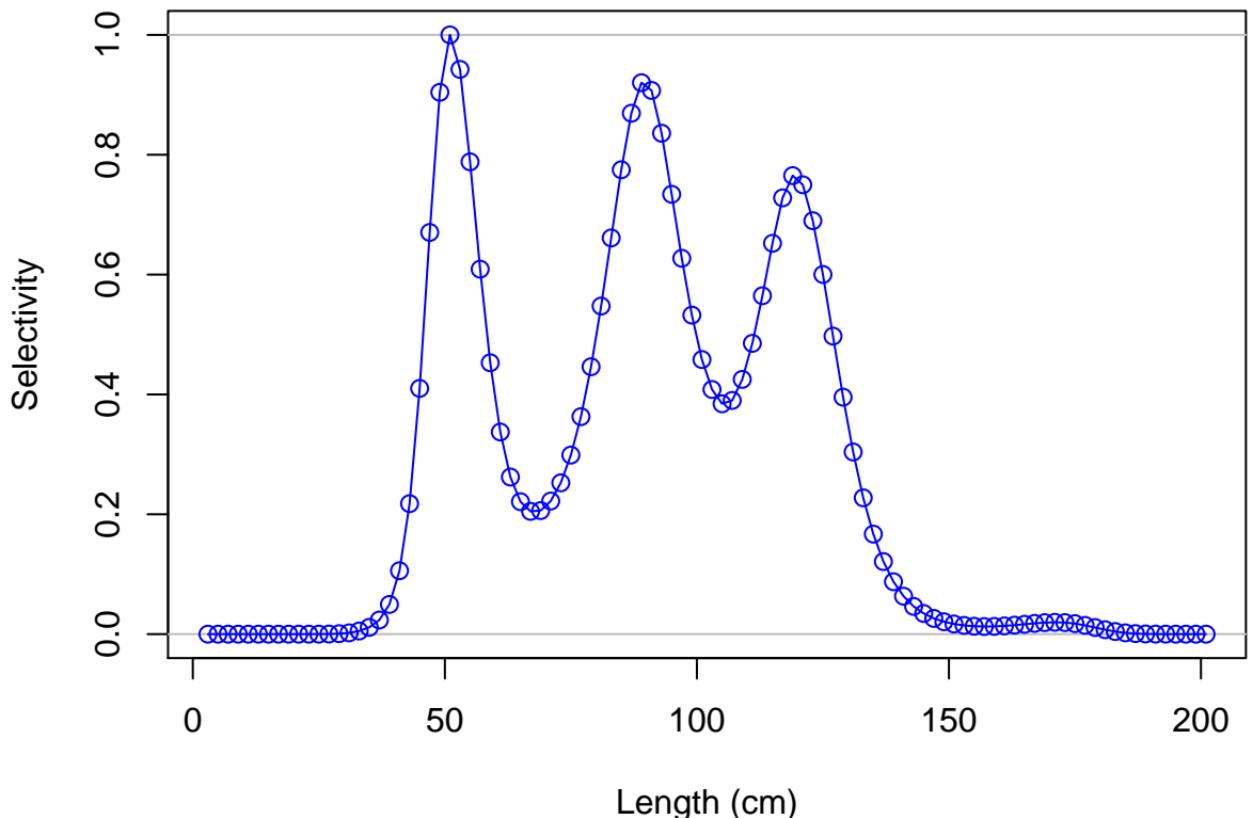
Female ending year selectivity for F4-OBJ_Cc_Q14



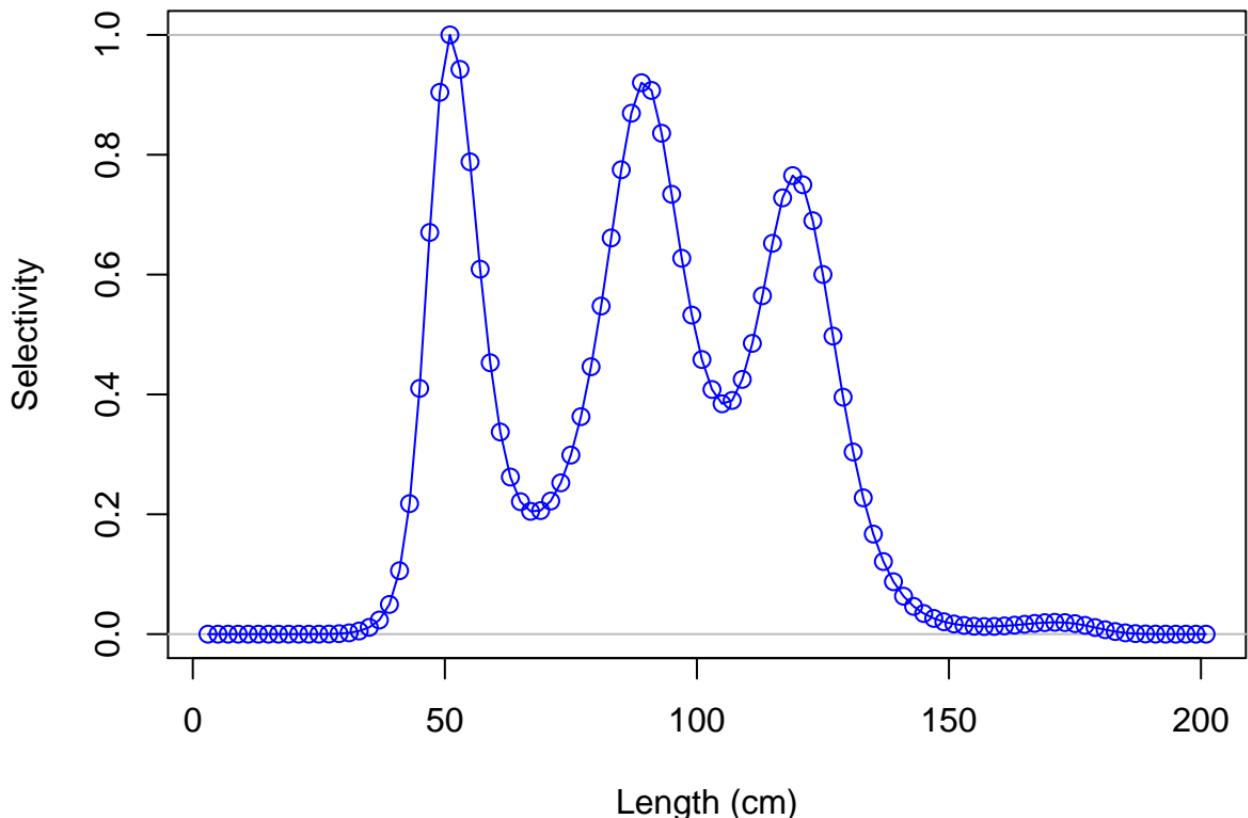
Male ending year selectivity for F4–OBJ_Cc_Q14



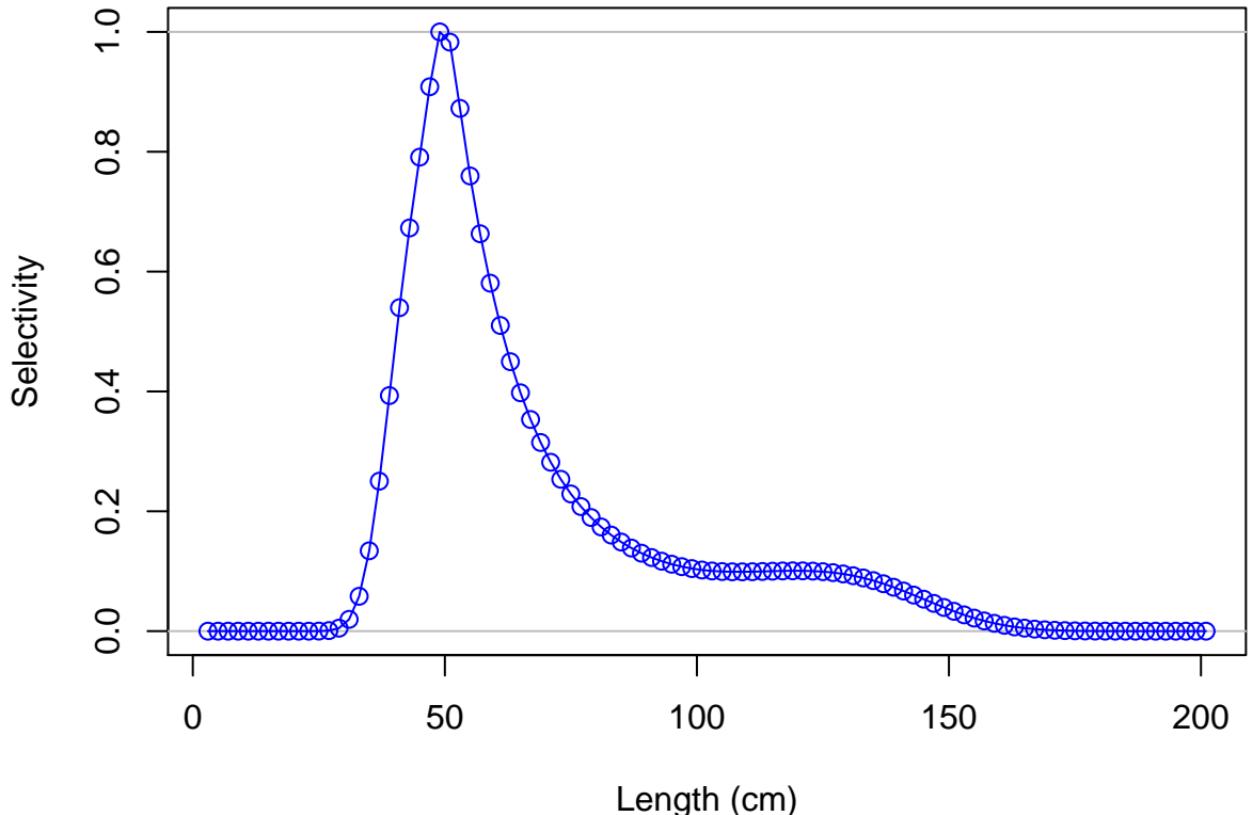
Female ending year selectivity for F5–OBJ_S_Q14



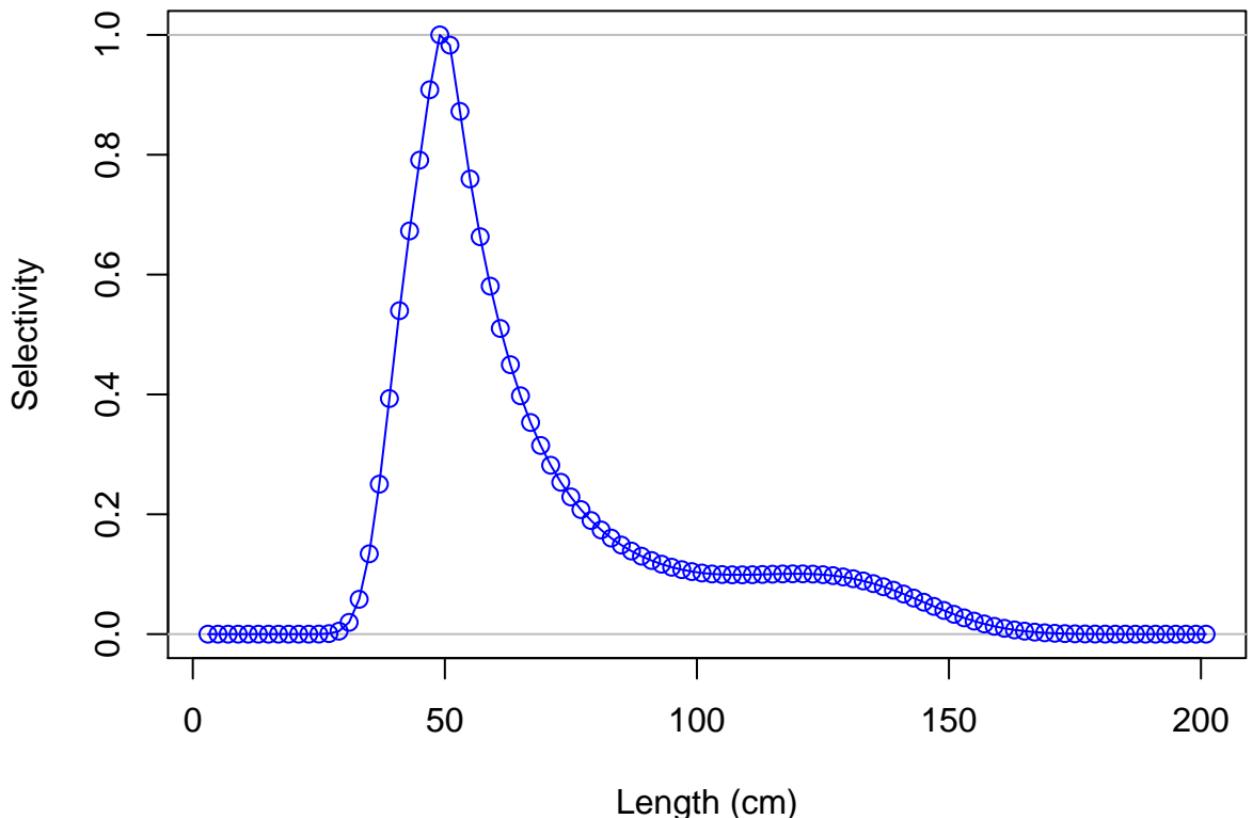
Male ending year selectivity for F5–OBJ_S_Q14



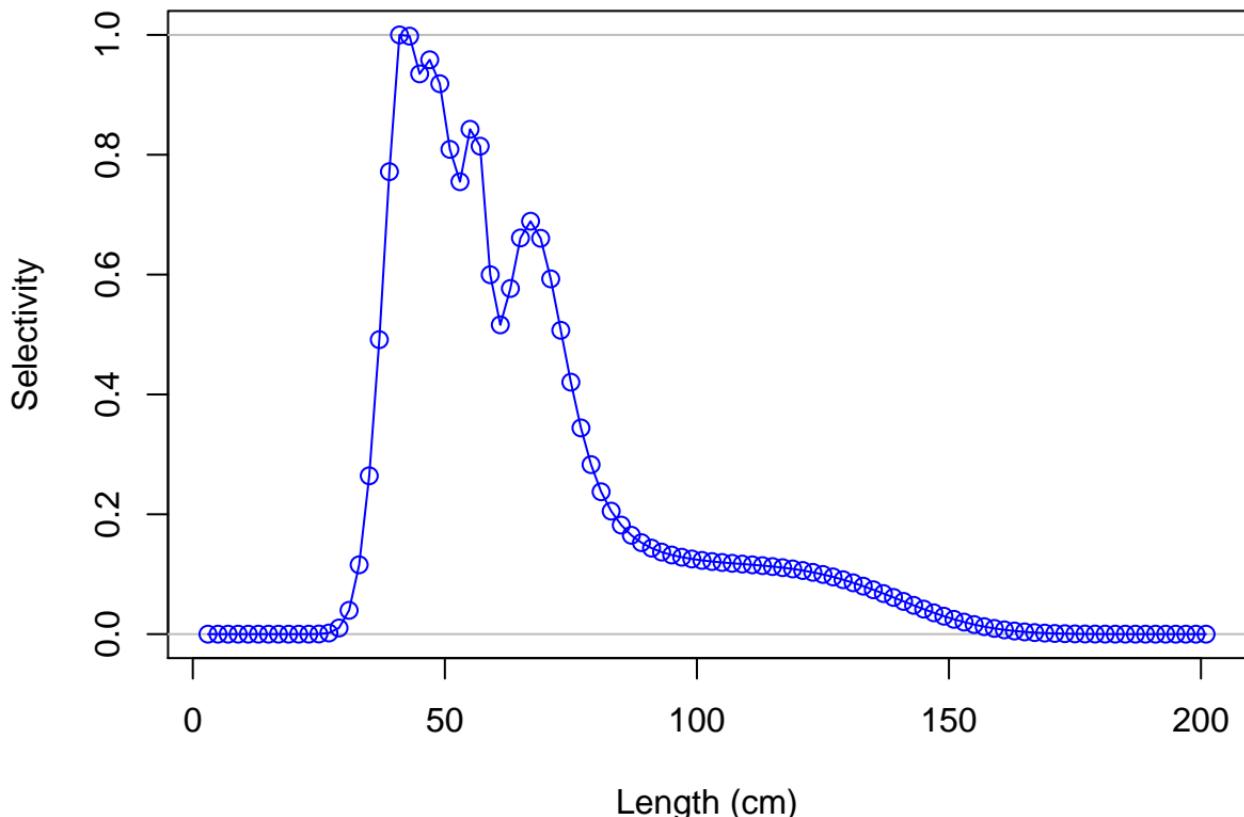
Female ending year selectivity for F6–OBJ_N_Q23



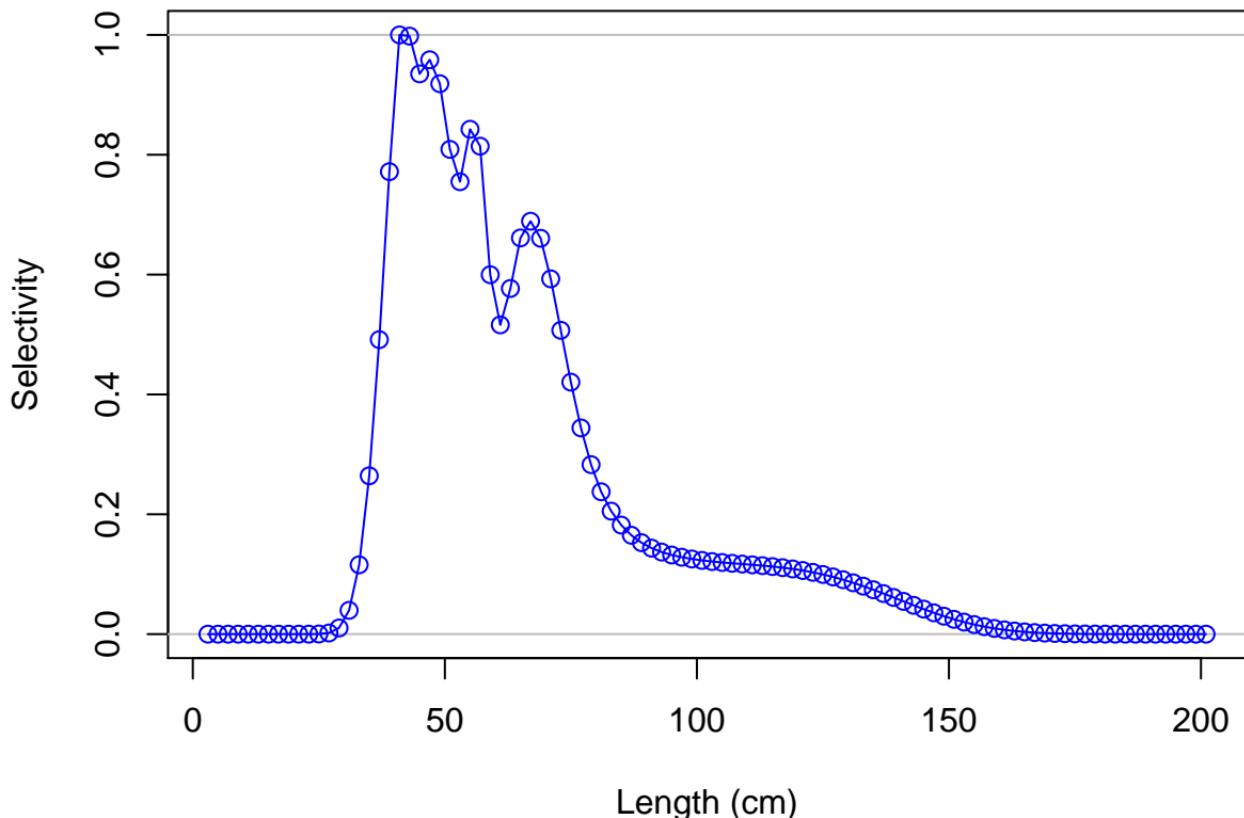
Male ending year selectivity for F6–OBJ_N_Q23



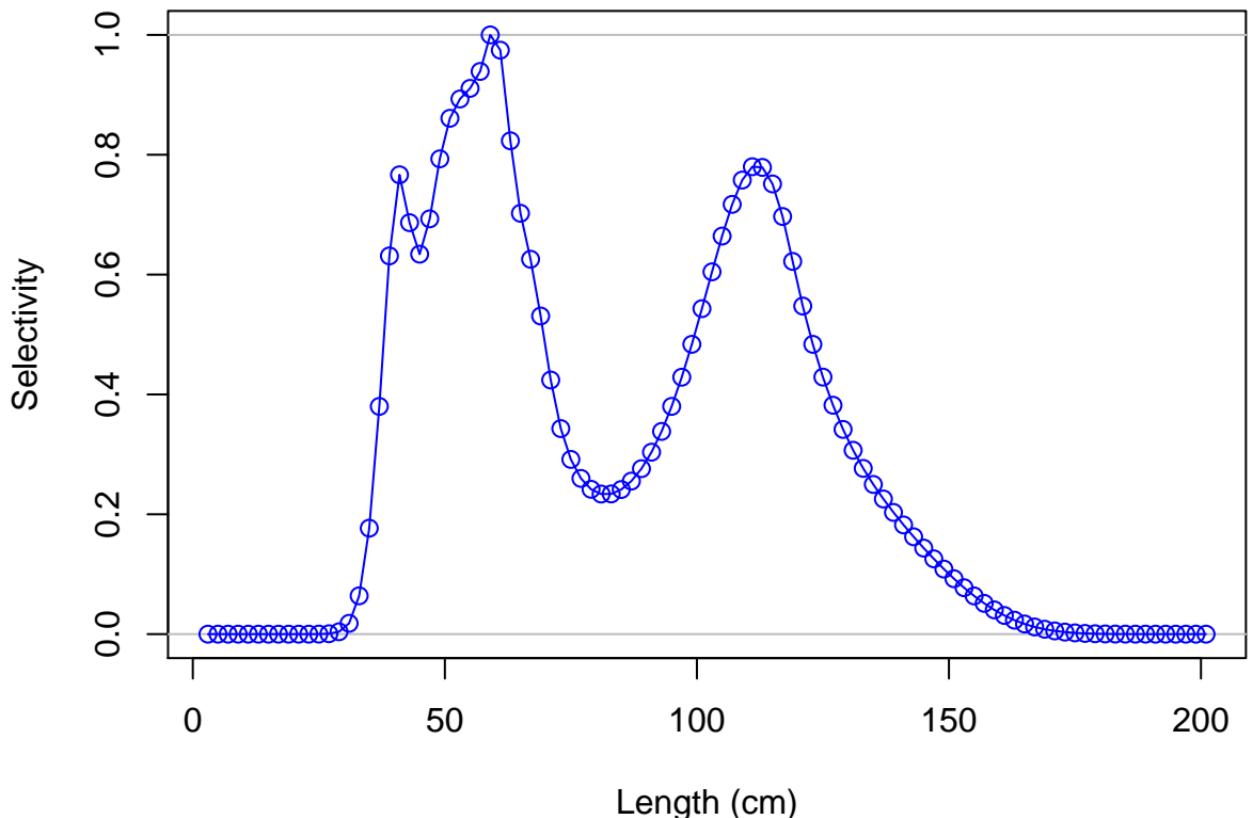
Female ending year selectivity for F7-OBJ_Nc_Q23



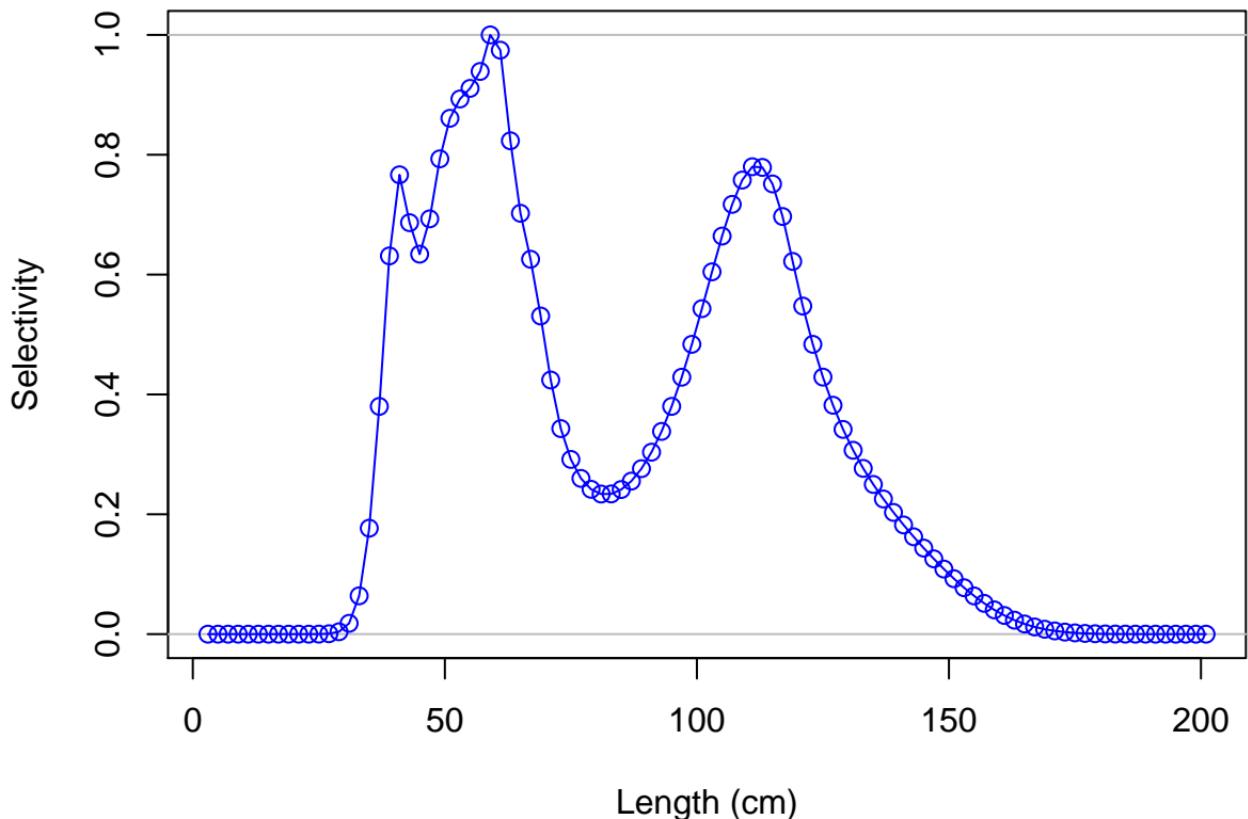
Male ending year selectivity for F7–OBJ_Nc_Q23



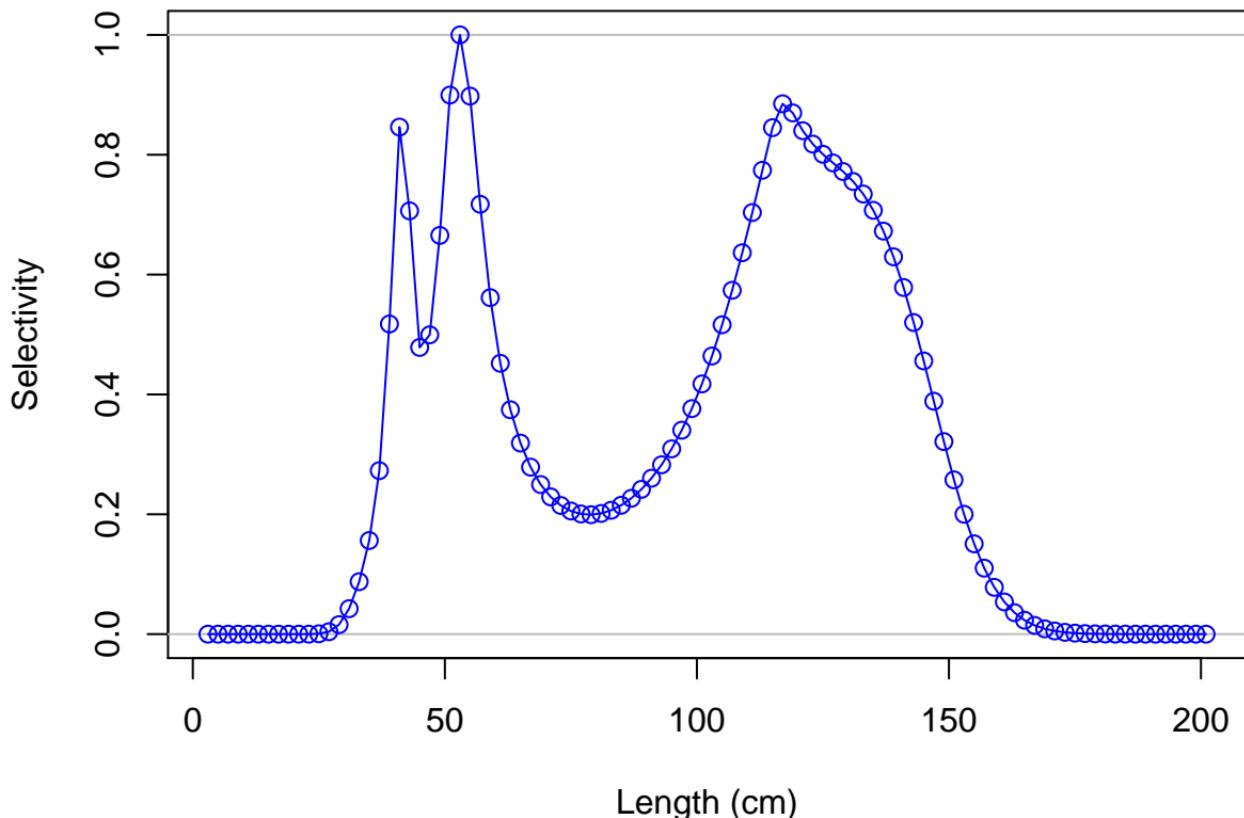
Female ending year selectivity for F8-OBJ_C_Q23



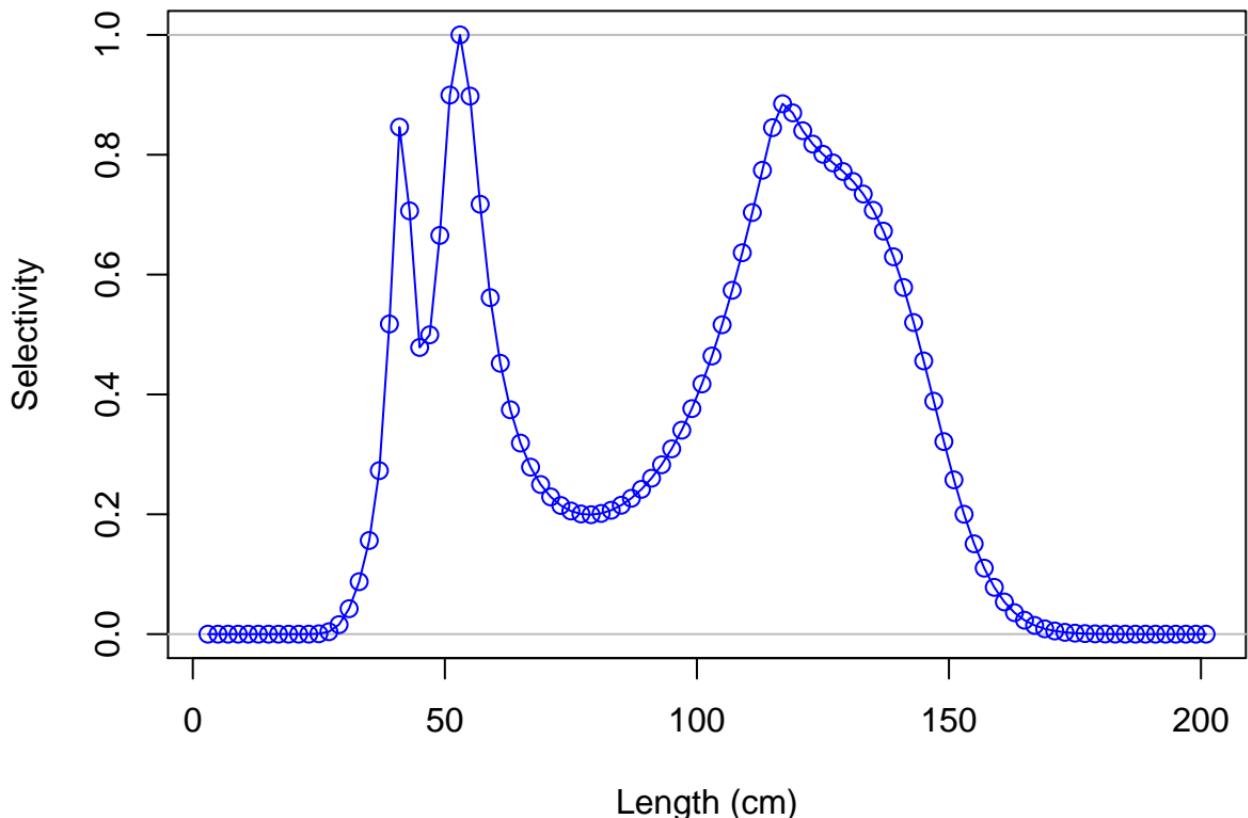
Male ending year selectivity for F8–OBJ_C_Q23



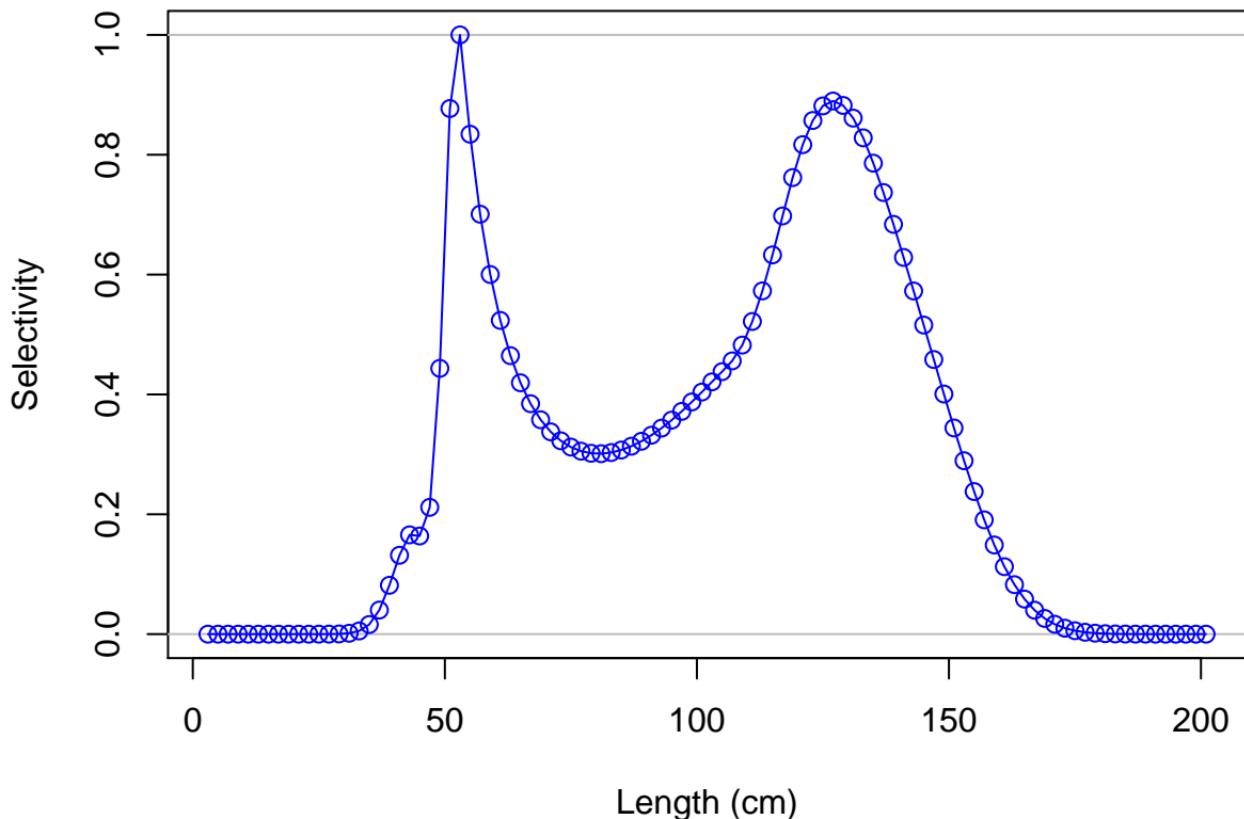
Female ending year selectivity for F9–OBJ_Cc_Q23



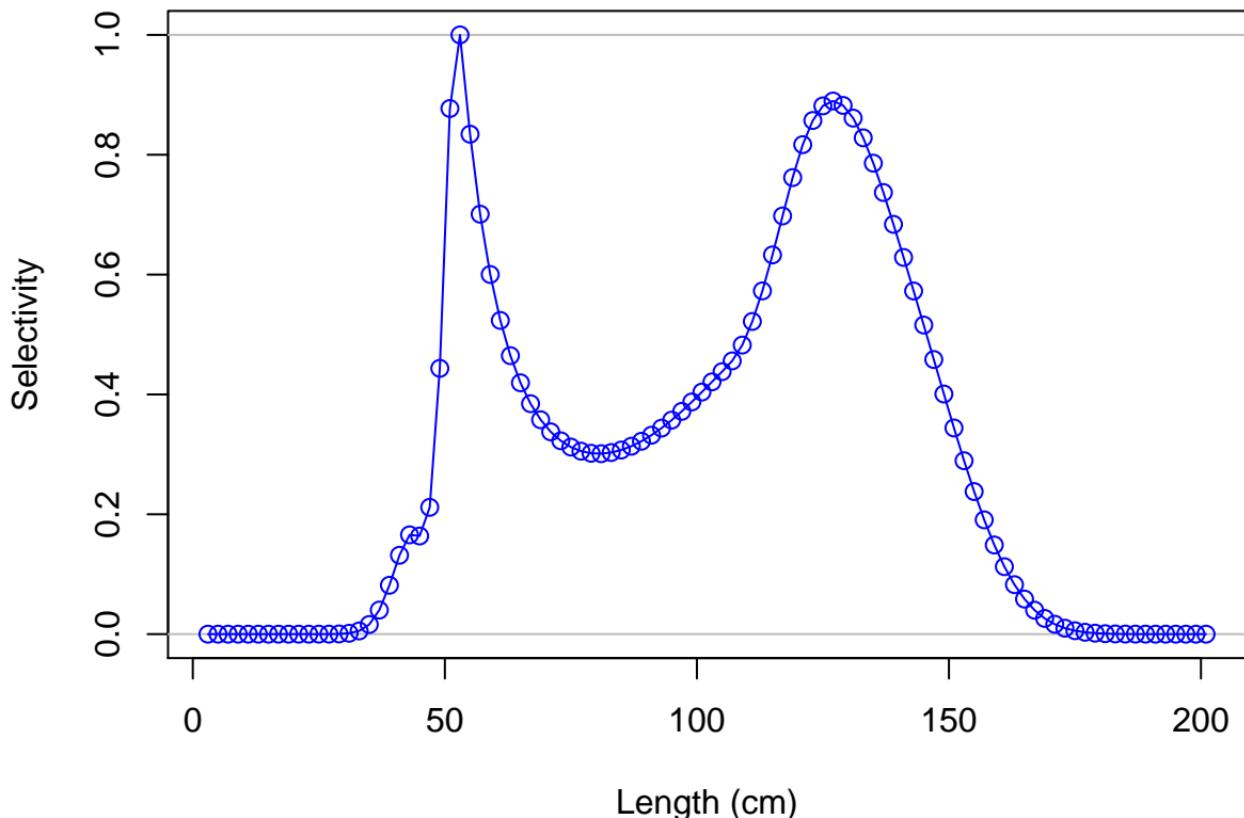
Male ending year selectivity for F9–OBJ_Cc_Q23



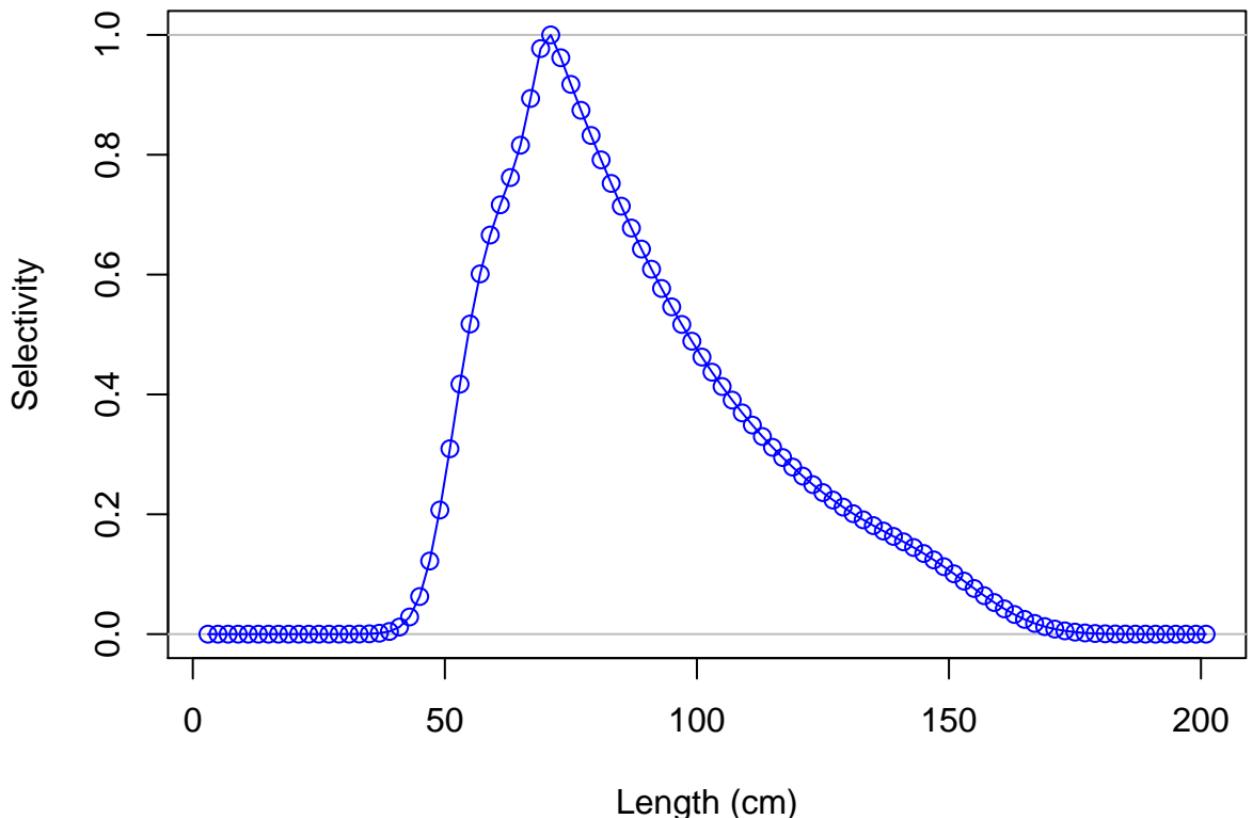
Female ending year selectivity for F10-OBJ_S_Q23



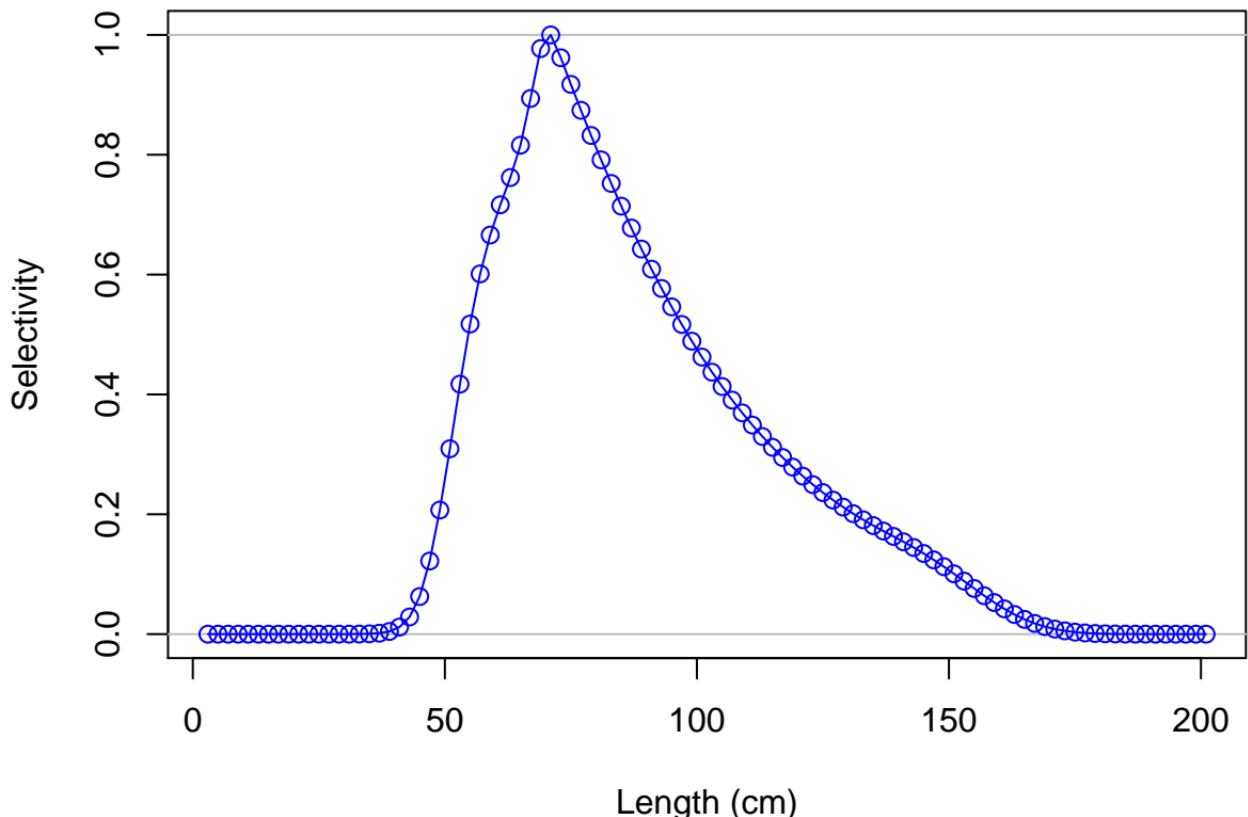
Male ending year selectivity for F10–OBJ_S_Q23



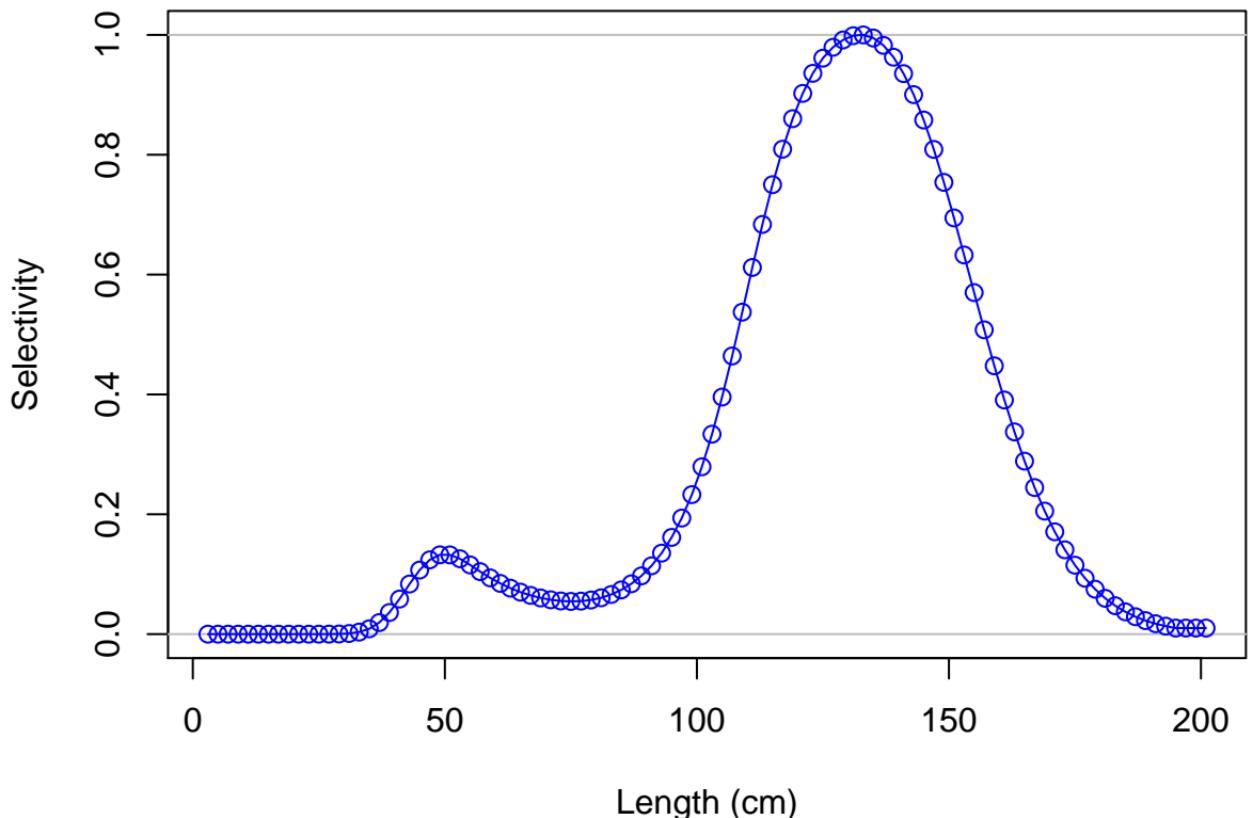
Female ending year selectivity for F11-NOA_N



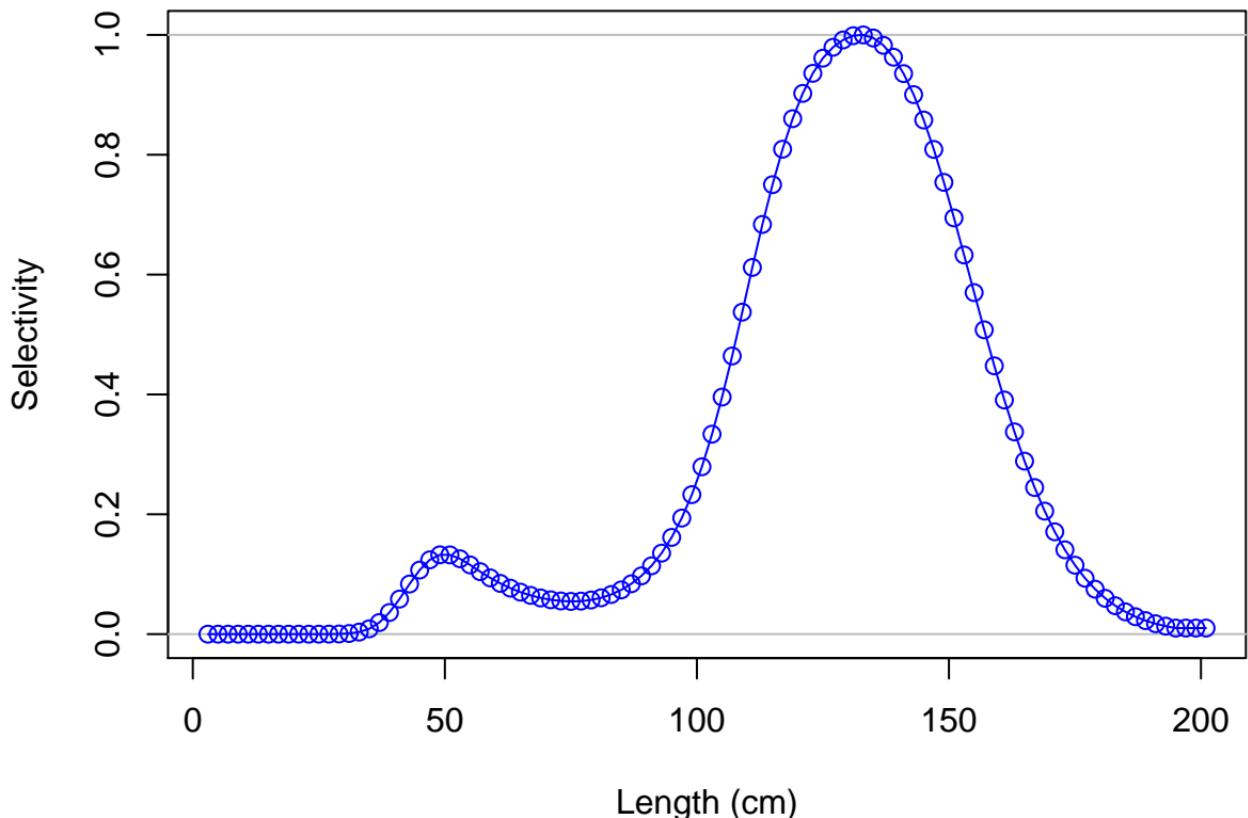
Male ending year selectivity for F11–NOA_N



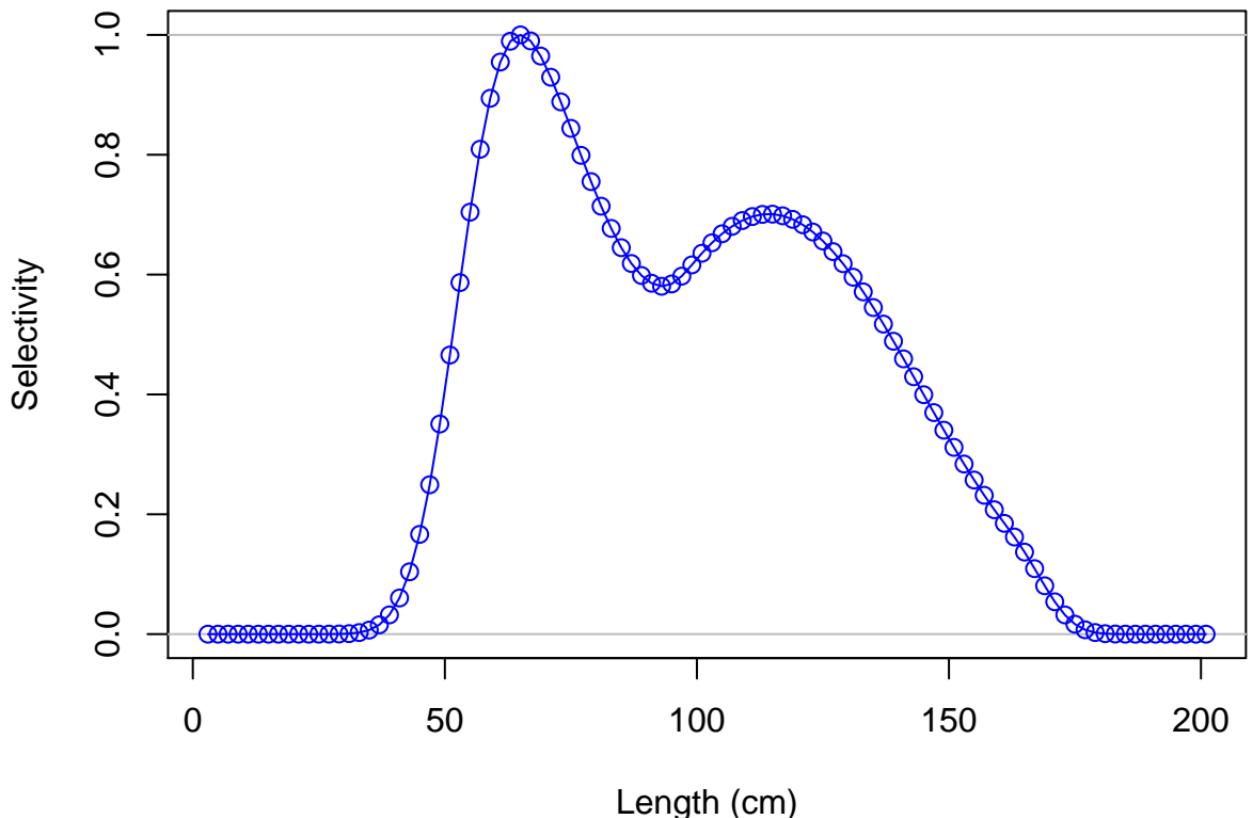
Female ending year selectivity for F12-NOA_C



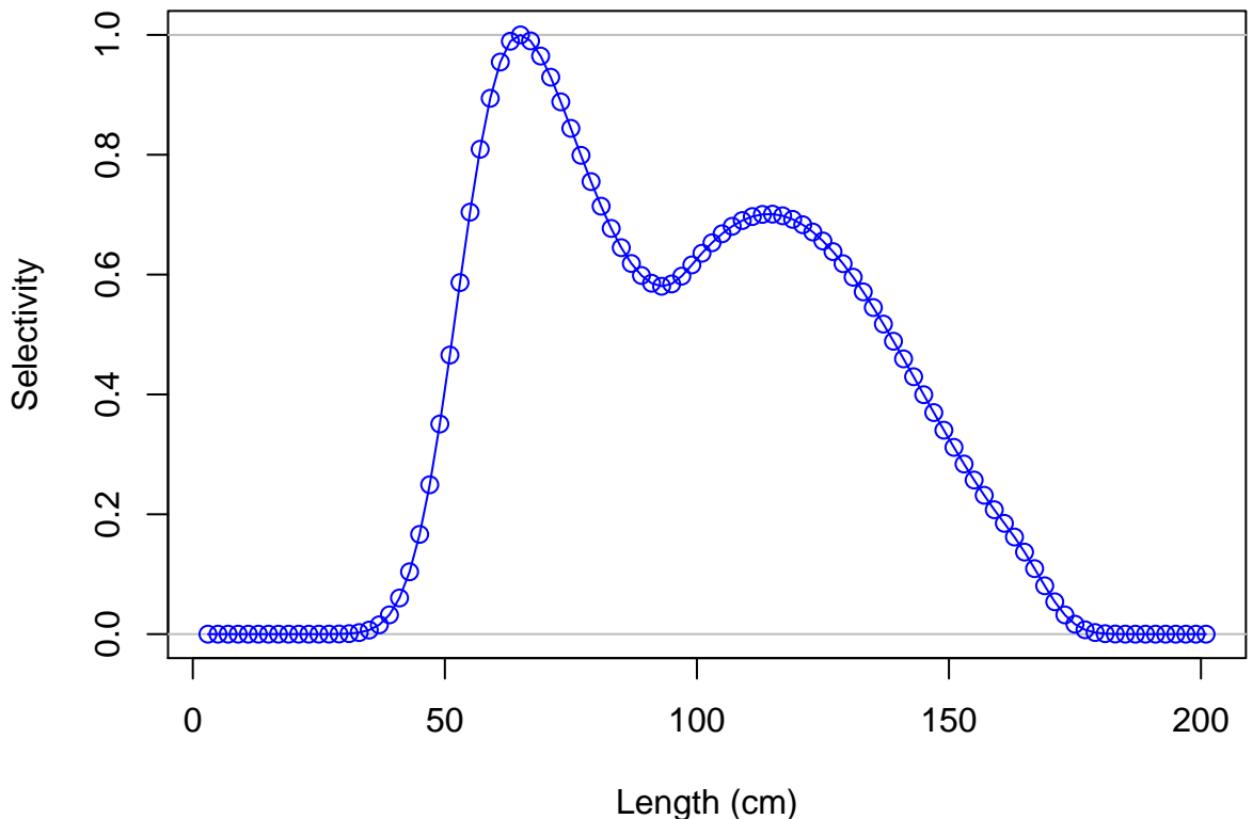
Male ending year selectivity for F12–NOA_C



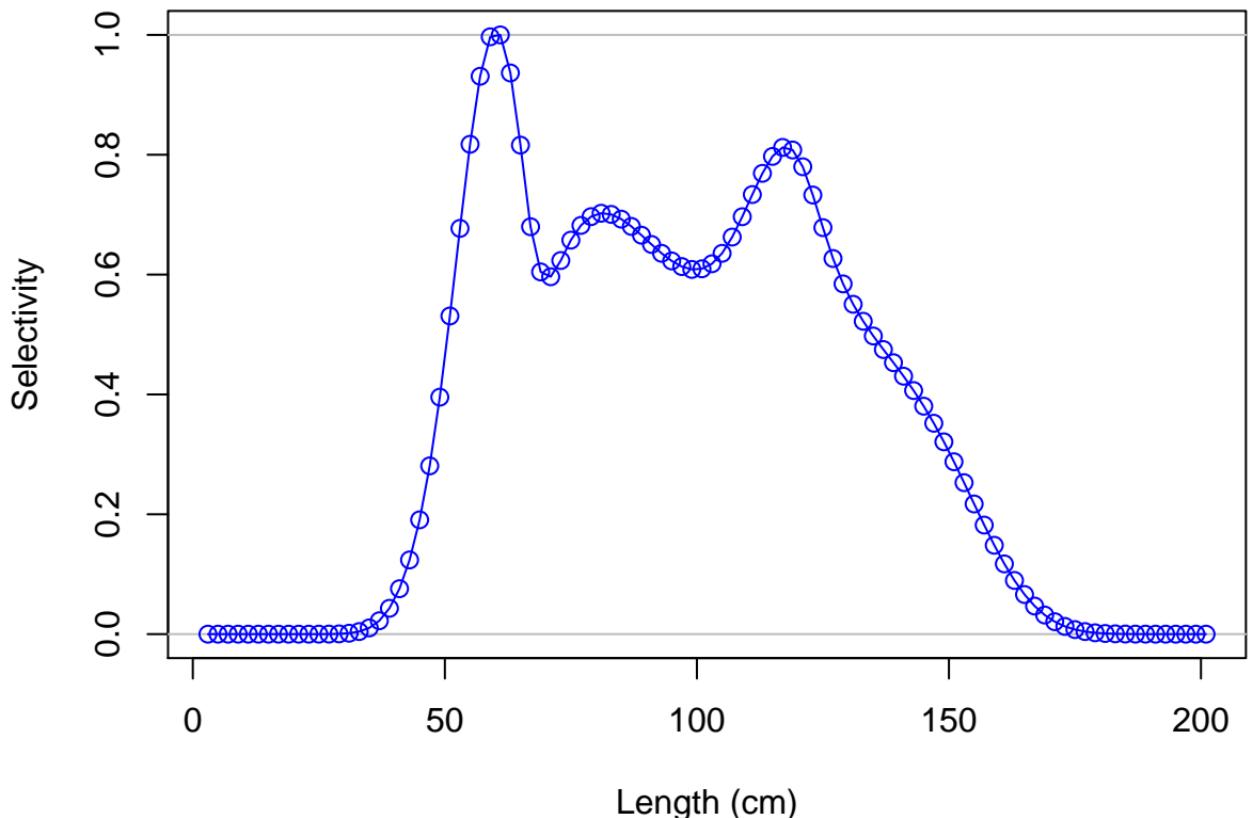
Female ending year selectivity for F13–NOA_I



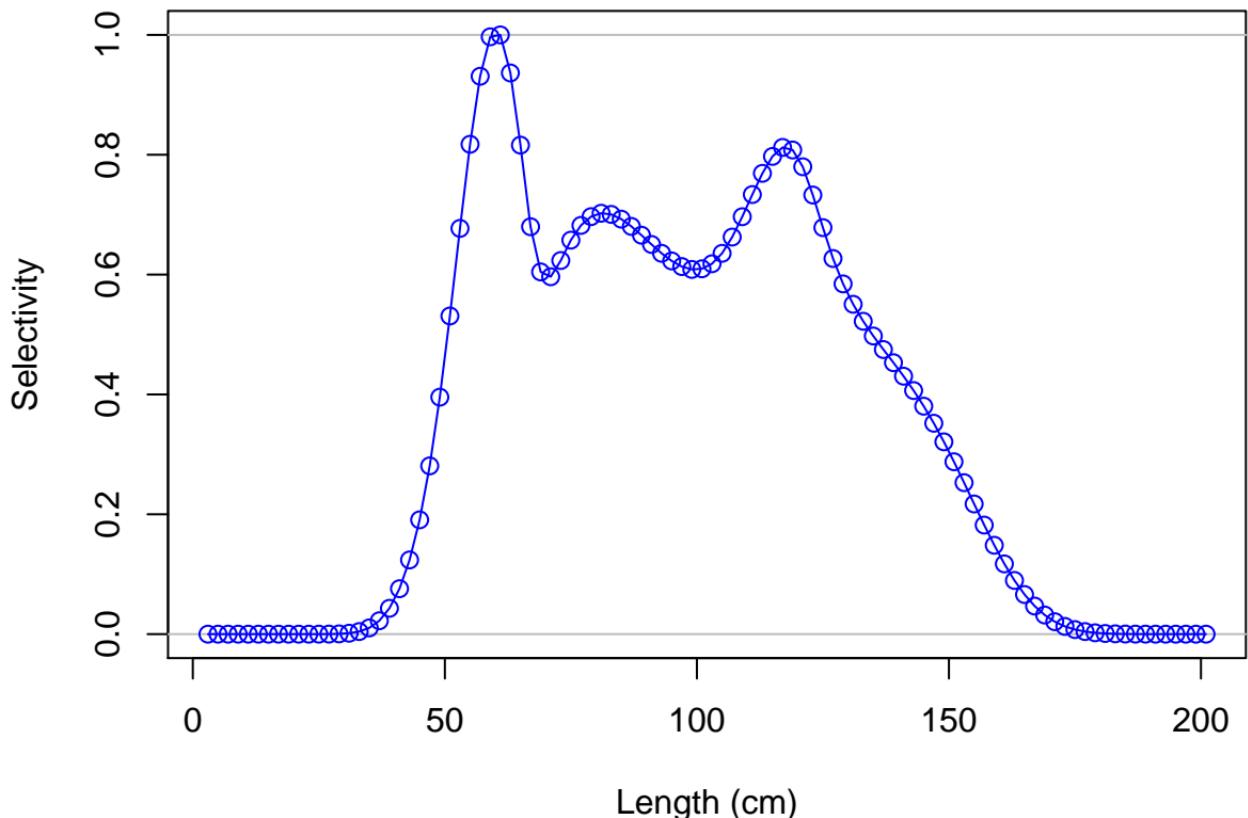
Male ending year selectivity for F13–NOA_I



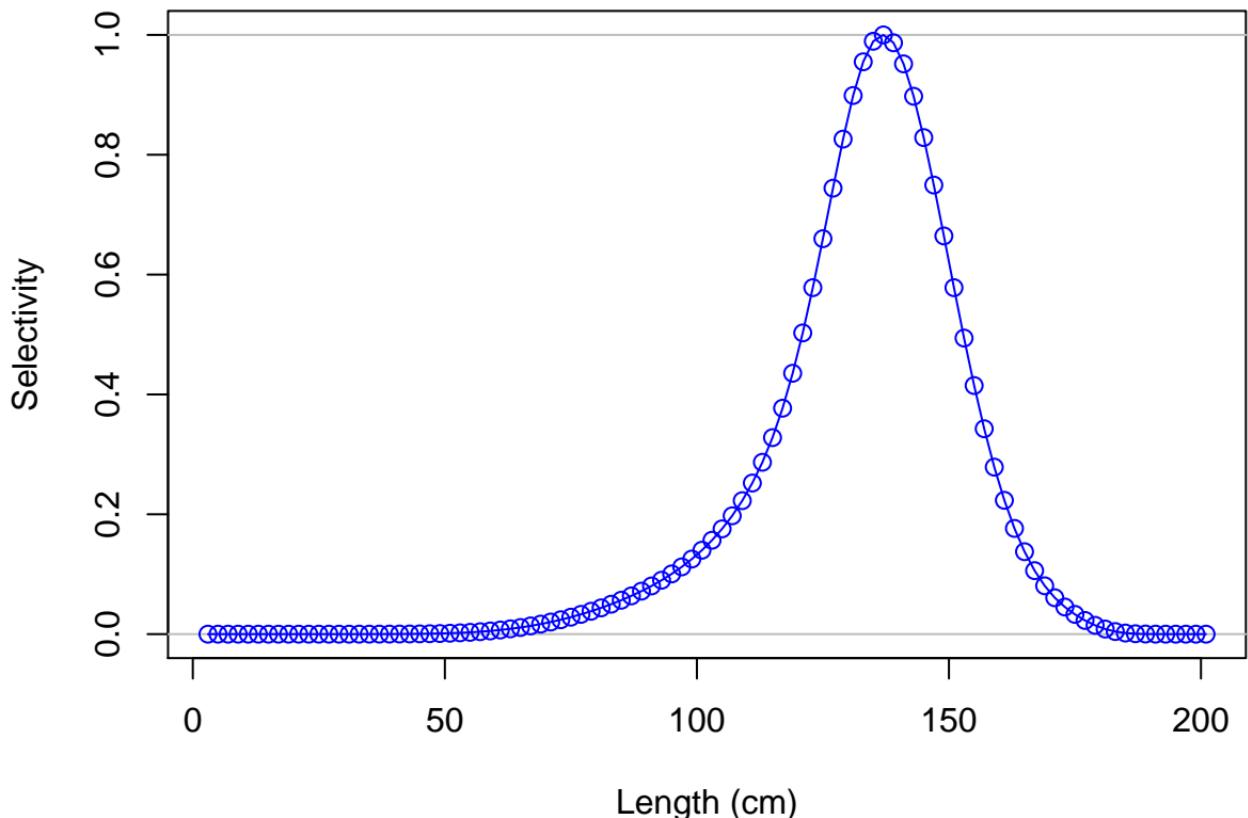
Female ending year selectivity for F14–NOA_S



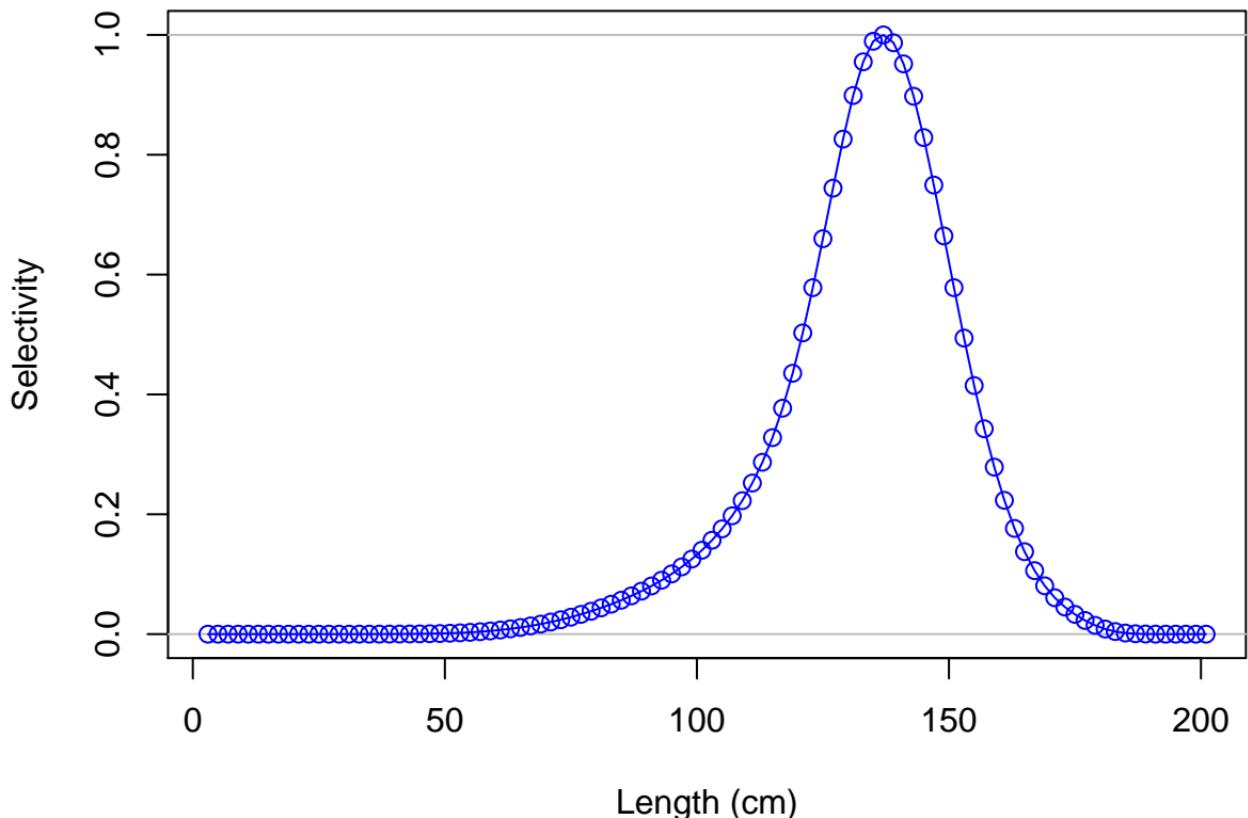
Male ending year selectivity for F14–NOA_S



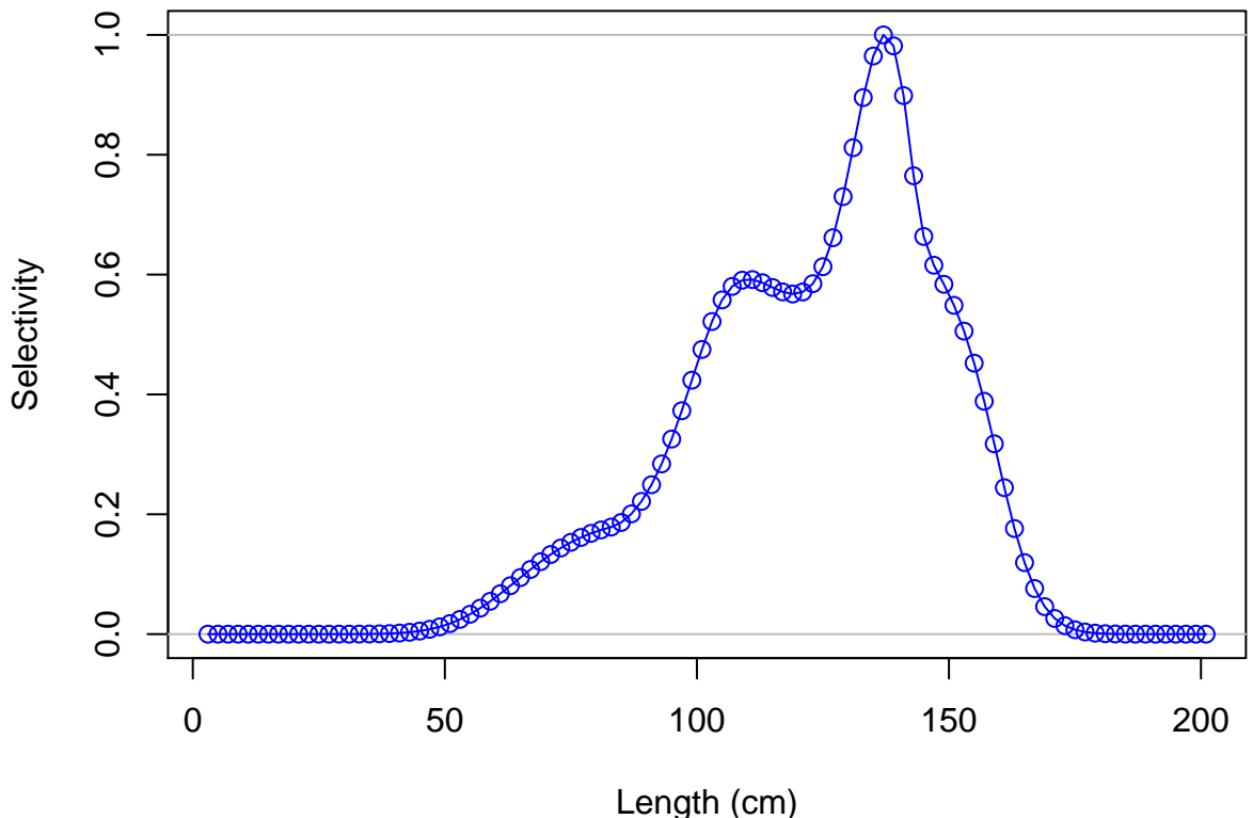
Female ending year selectivity for F15-DEL_N



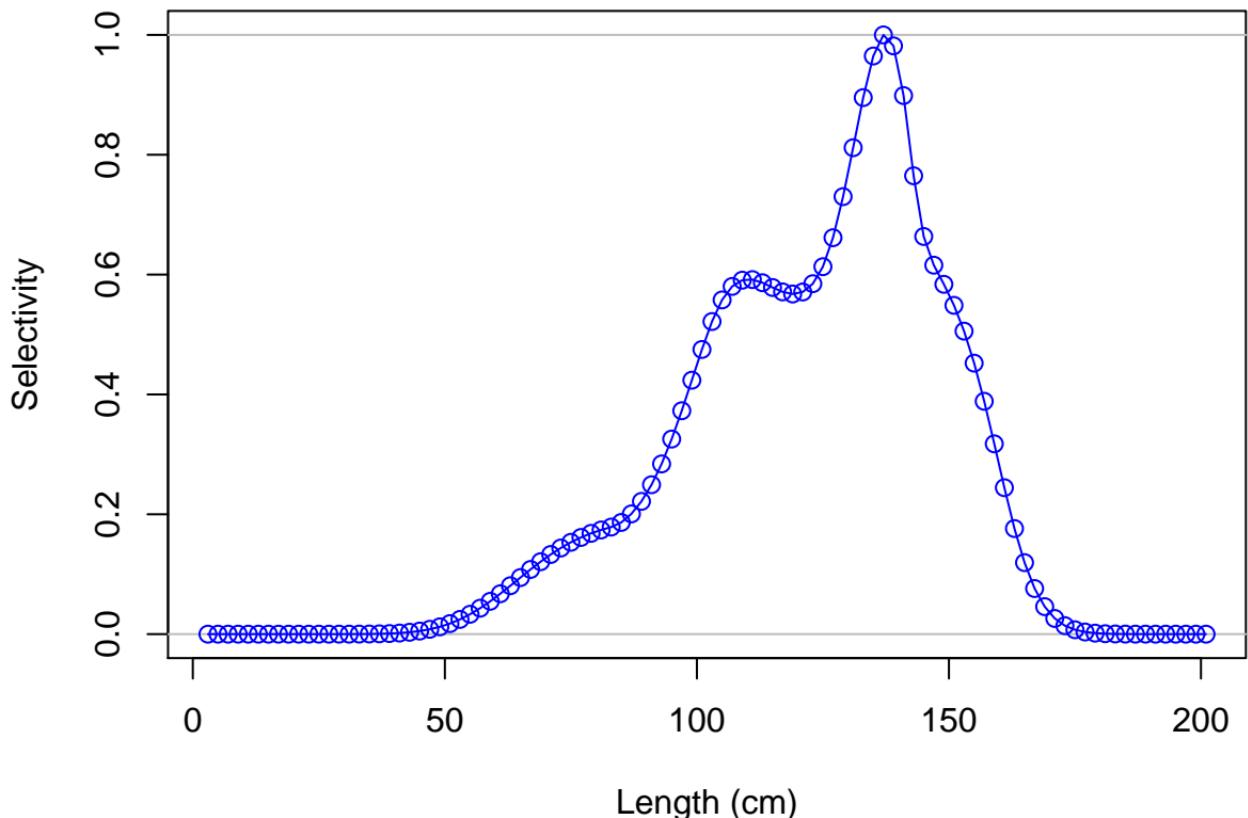
Male ending year selectivity for F15-DEL_N



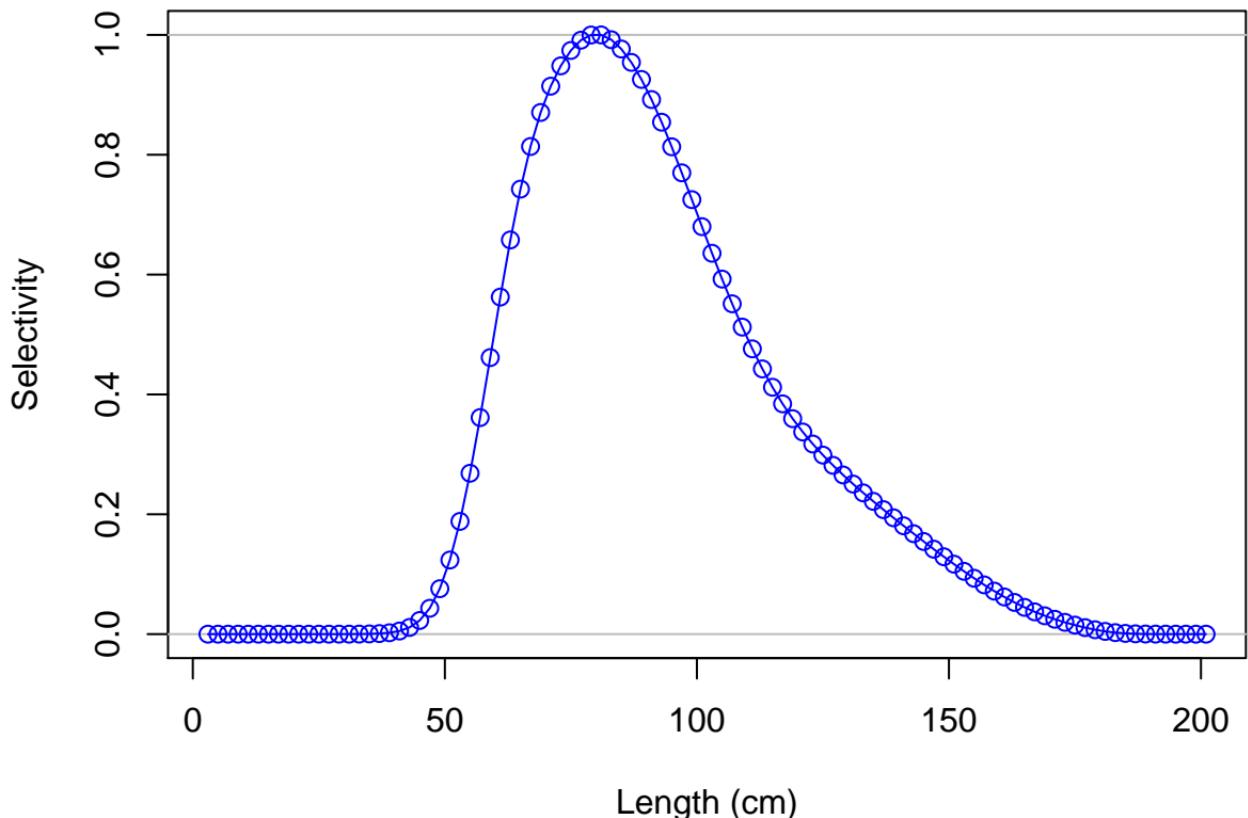
Female ending year selectivity for F16-DEL_NE



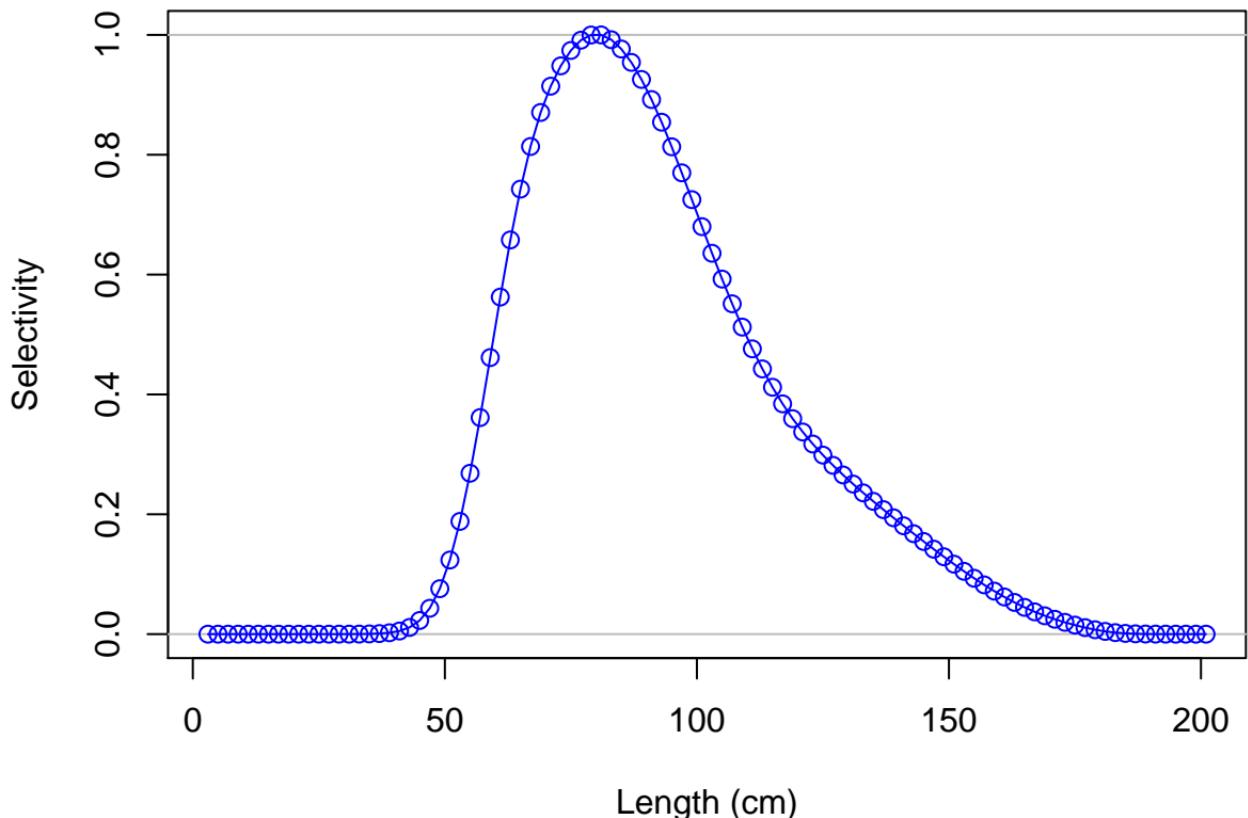
Male ending year selectivity for F16-DEL_NE



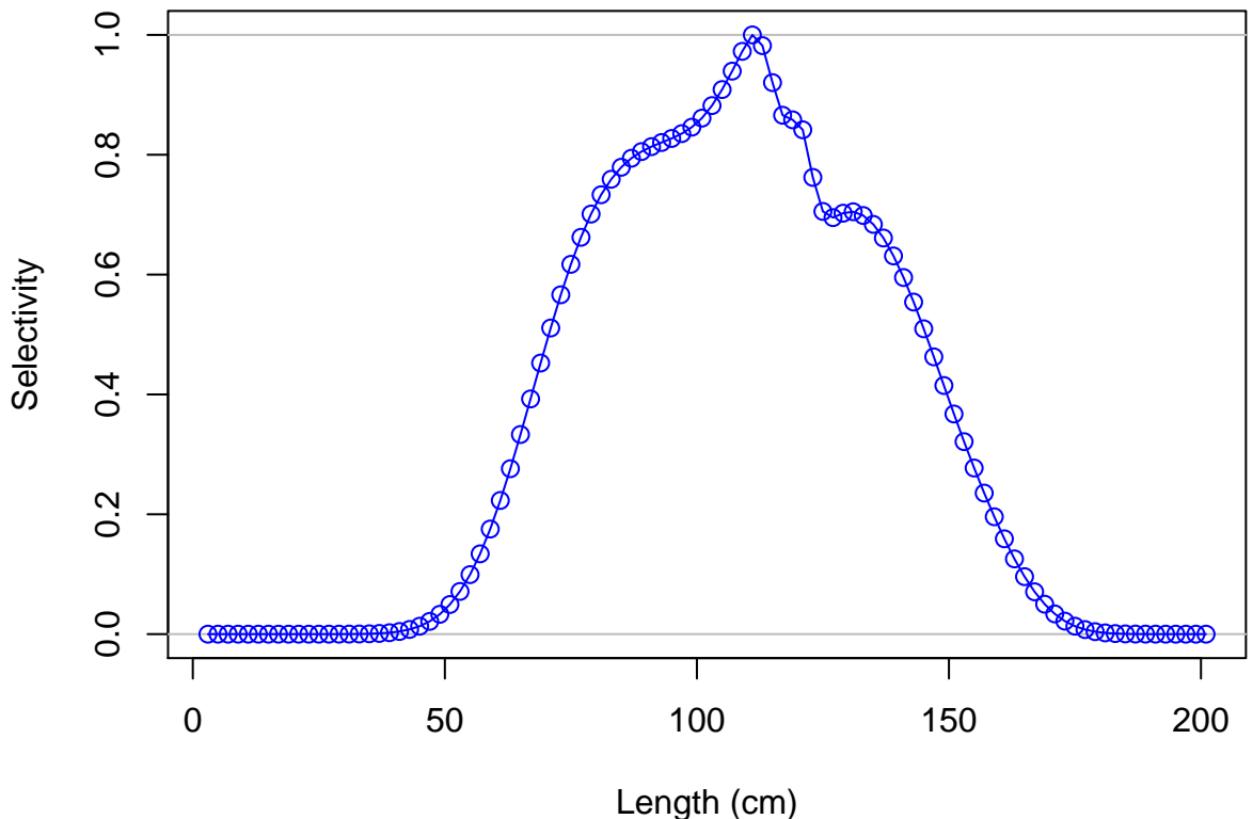
Female ending year selectivity for F17-DEL_M



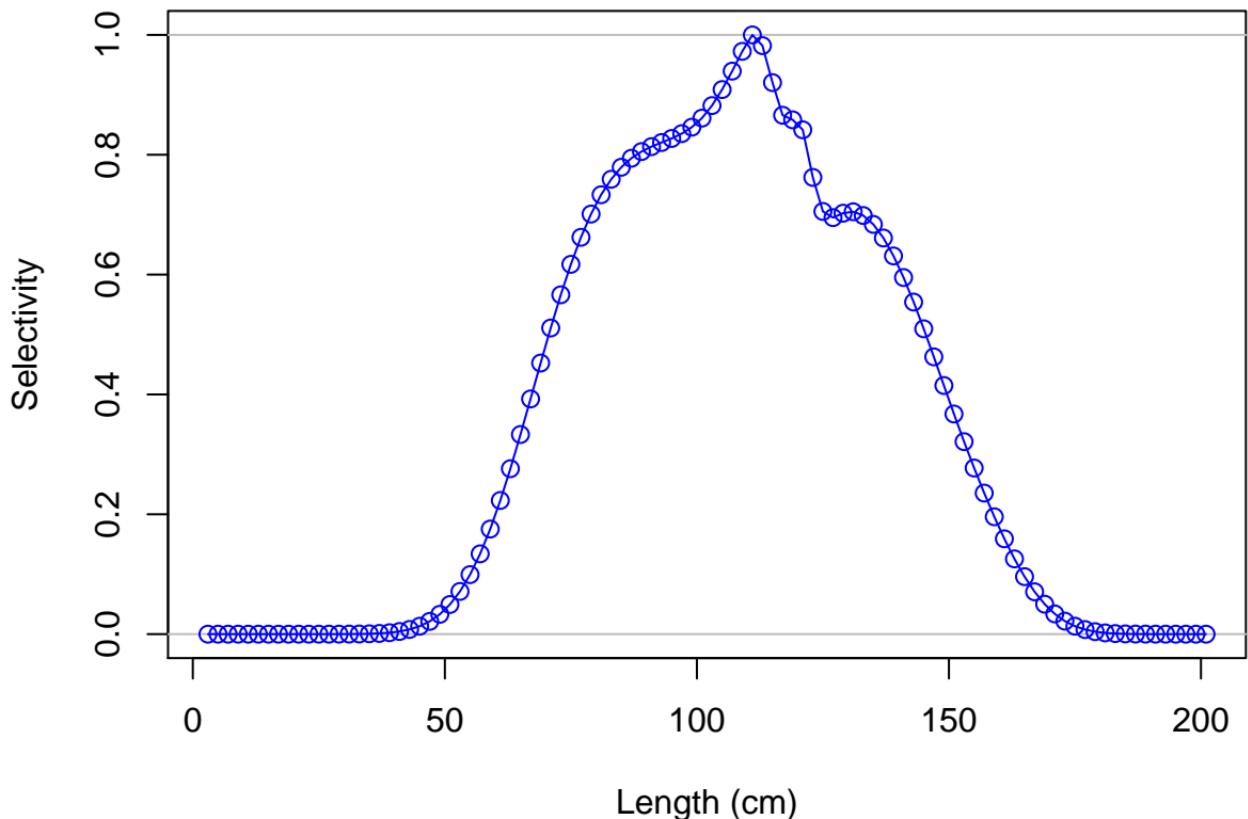
Male ending year selectivity for F17-DEL_M



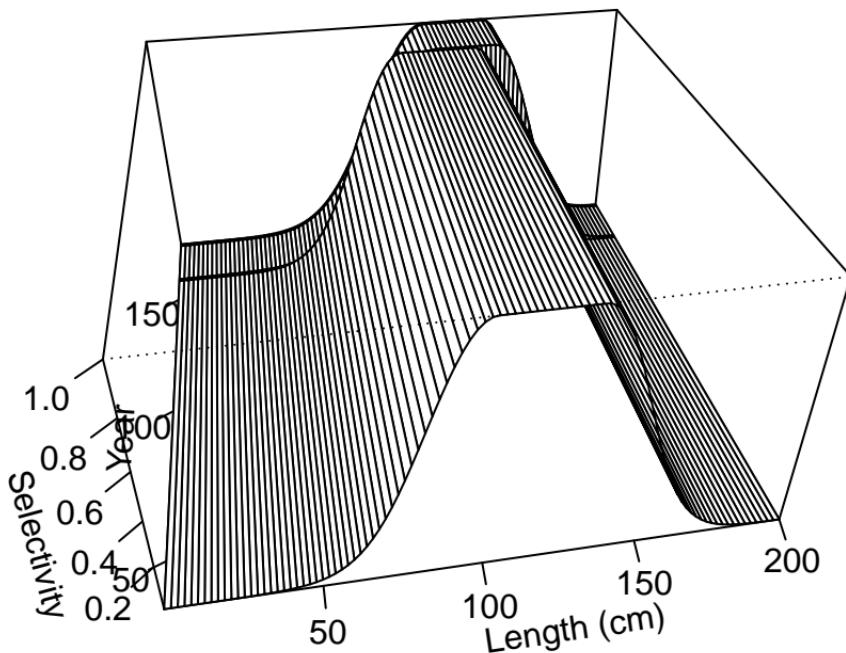
Female ending year selectivity for F18-DEL_C



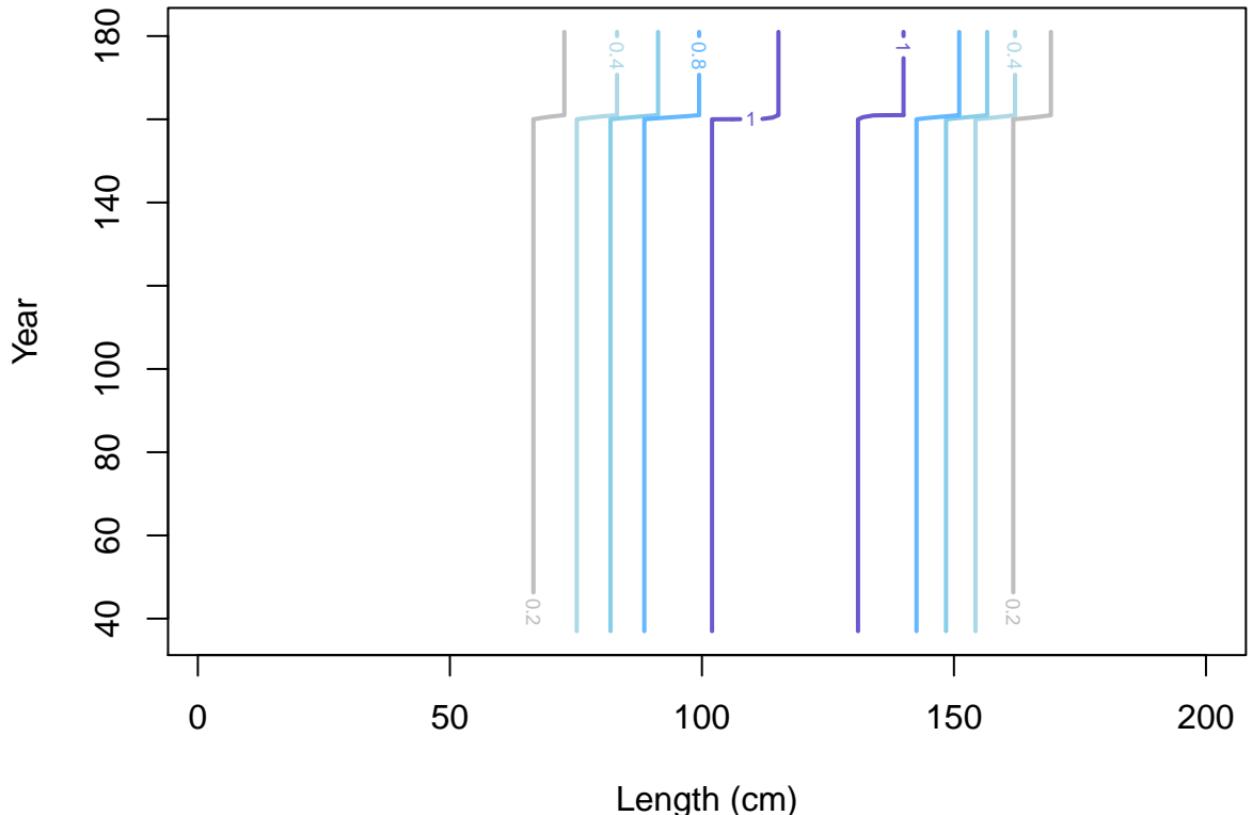
Male ending year selectivity for F18-DEL_C



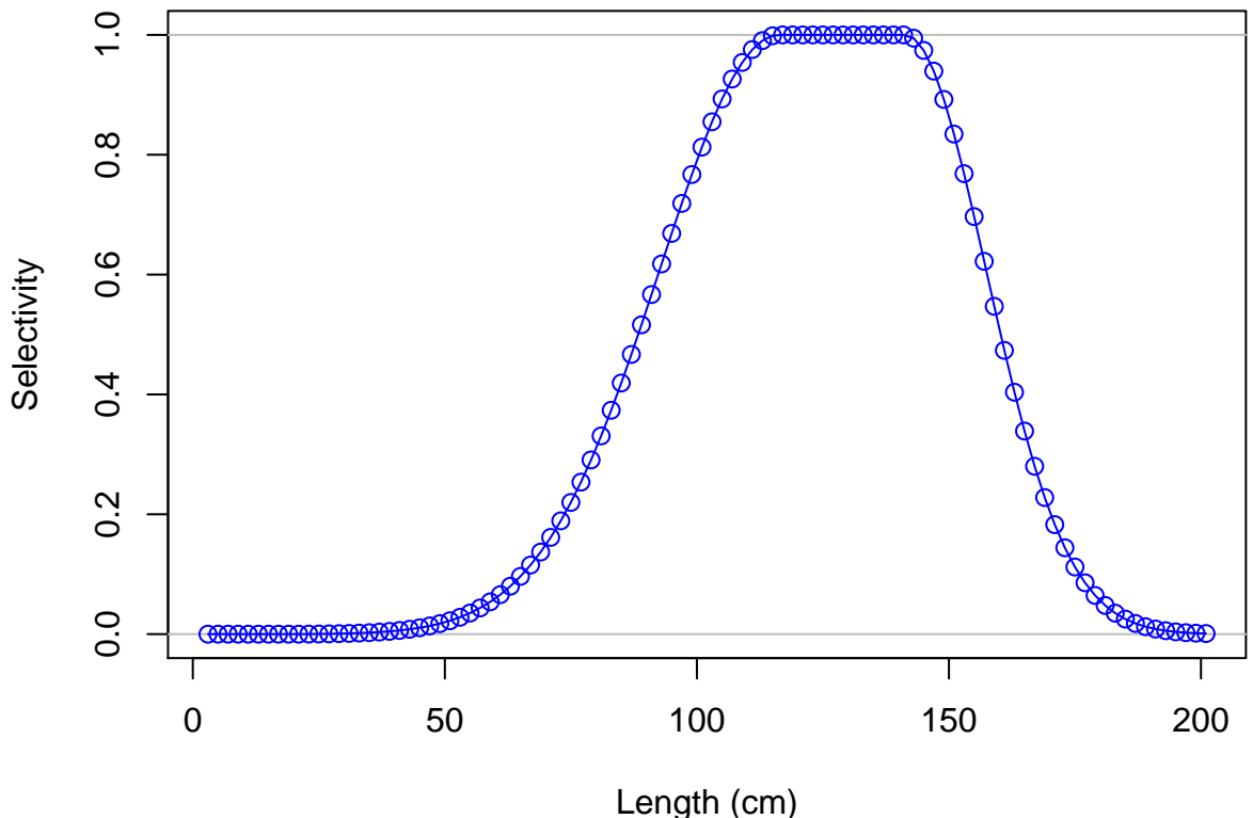
Female time-varying selectivity for F19-DEL_P



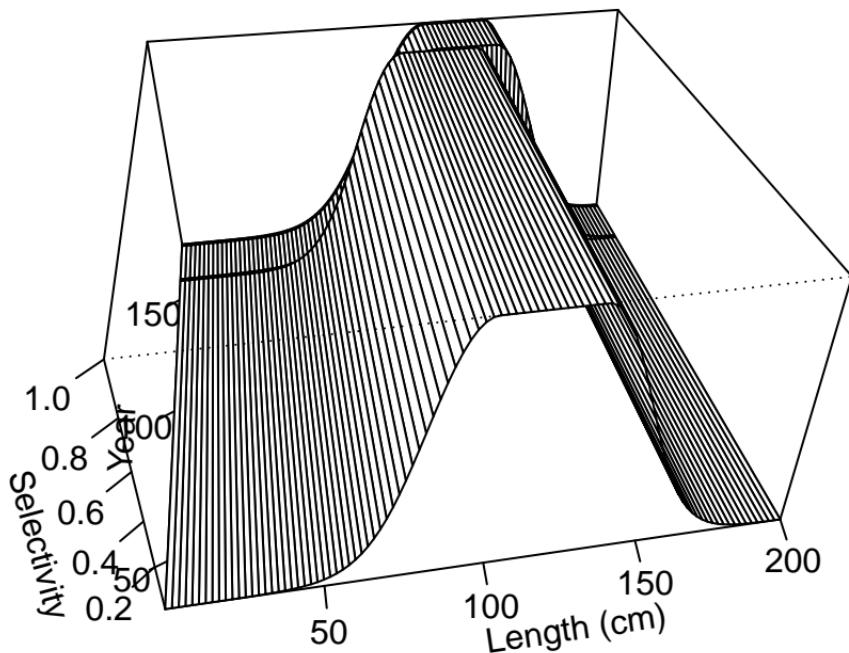
Female time-varying selectivity for F19-DEL_P



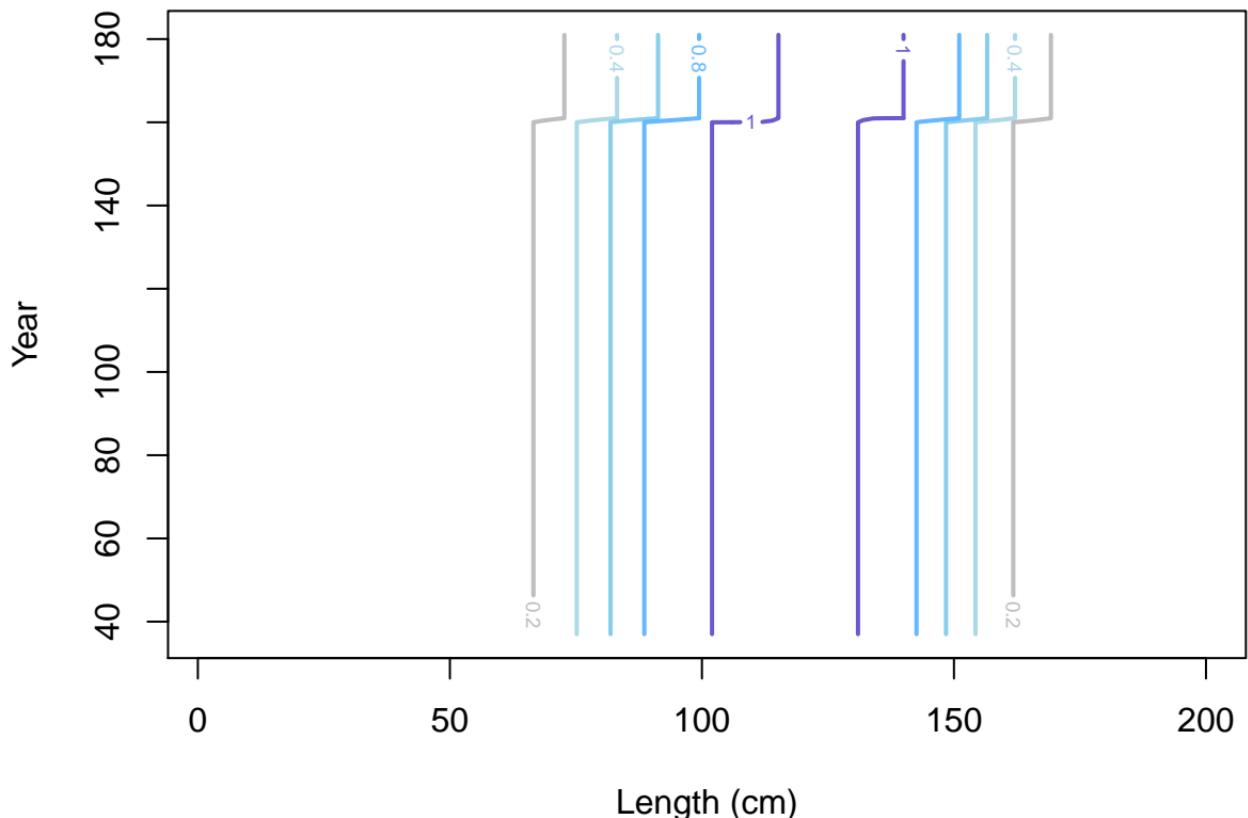
Female ending year selectivity for F19-DEL_P



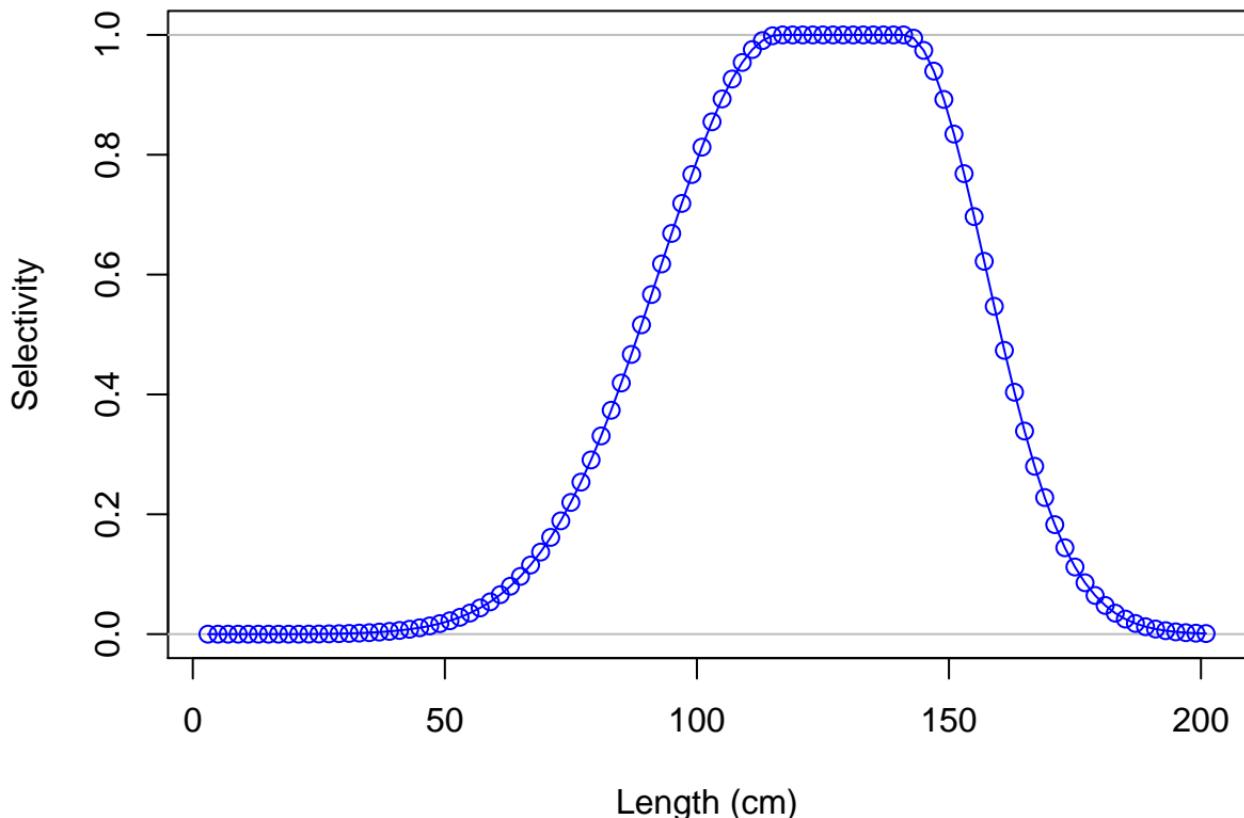
Male time-varying selectivity for F19-DEL_P



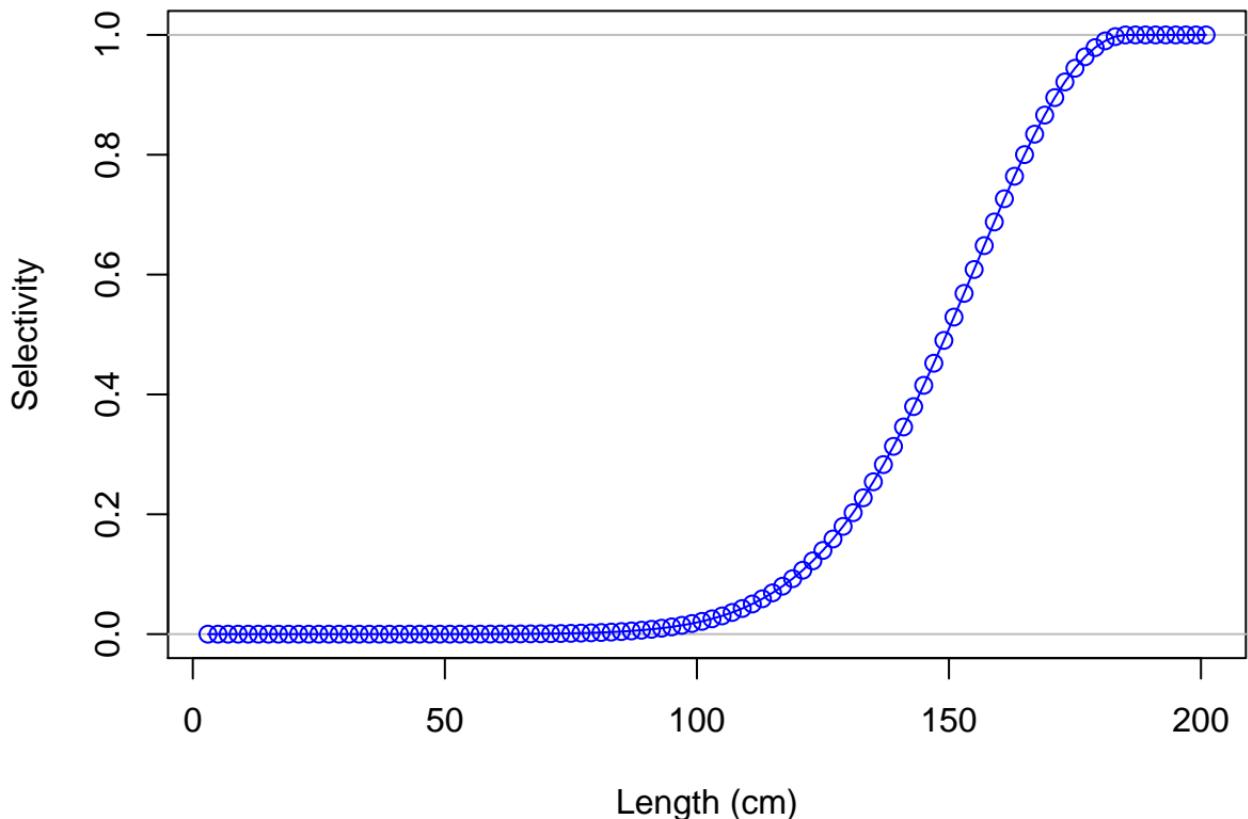
Male time-varying selectivity for F19-DEL_P



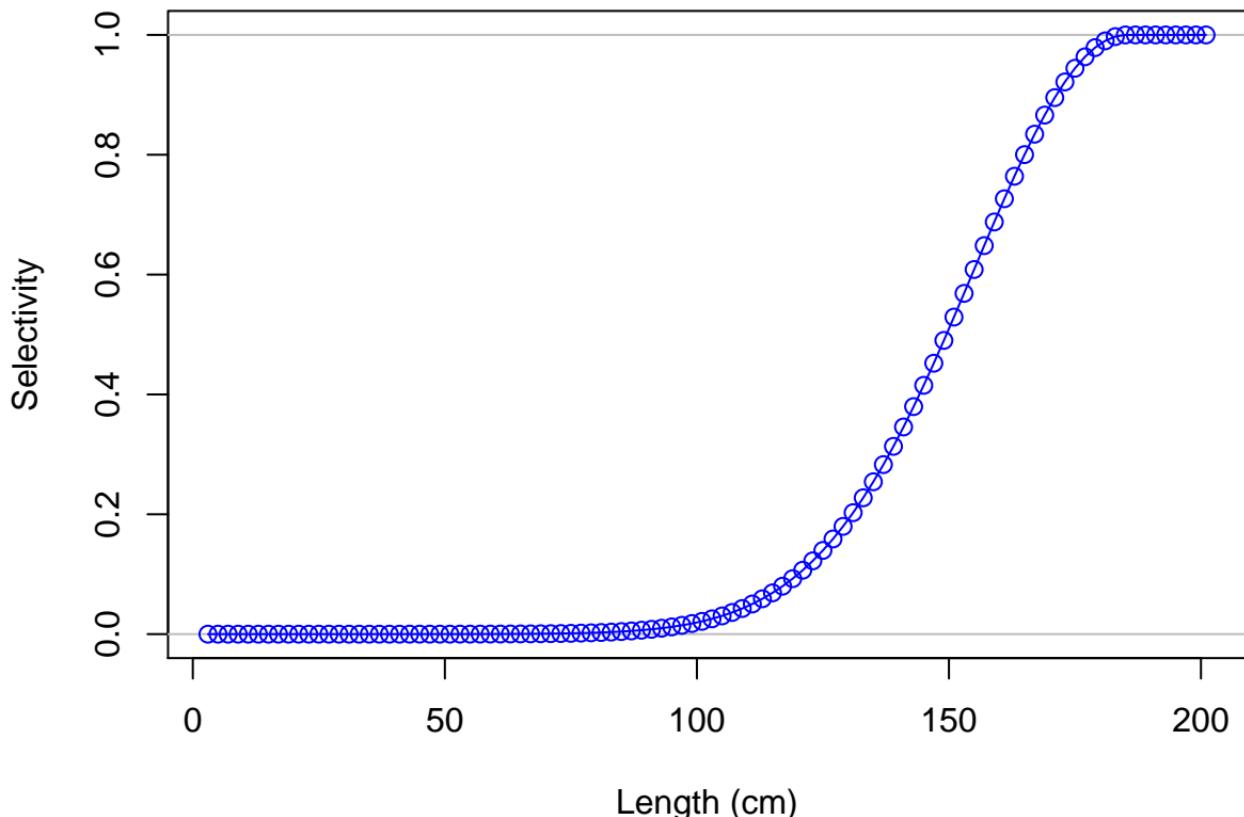
Male ending year selectivity for F19-DEL_P



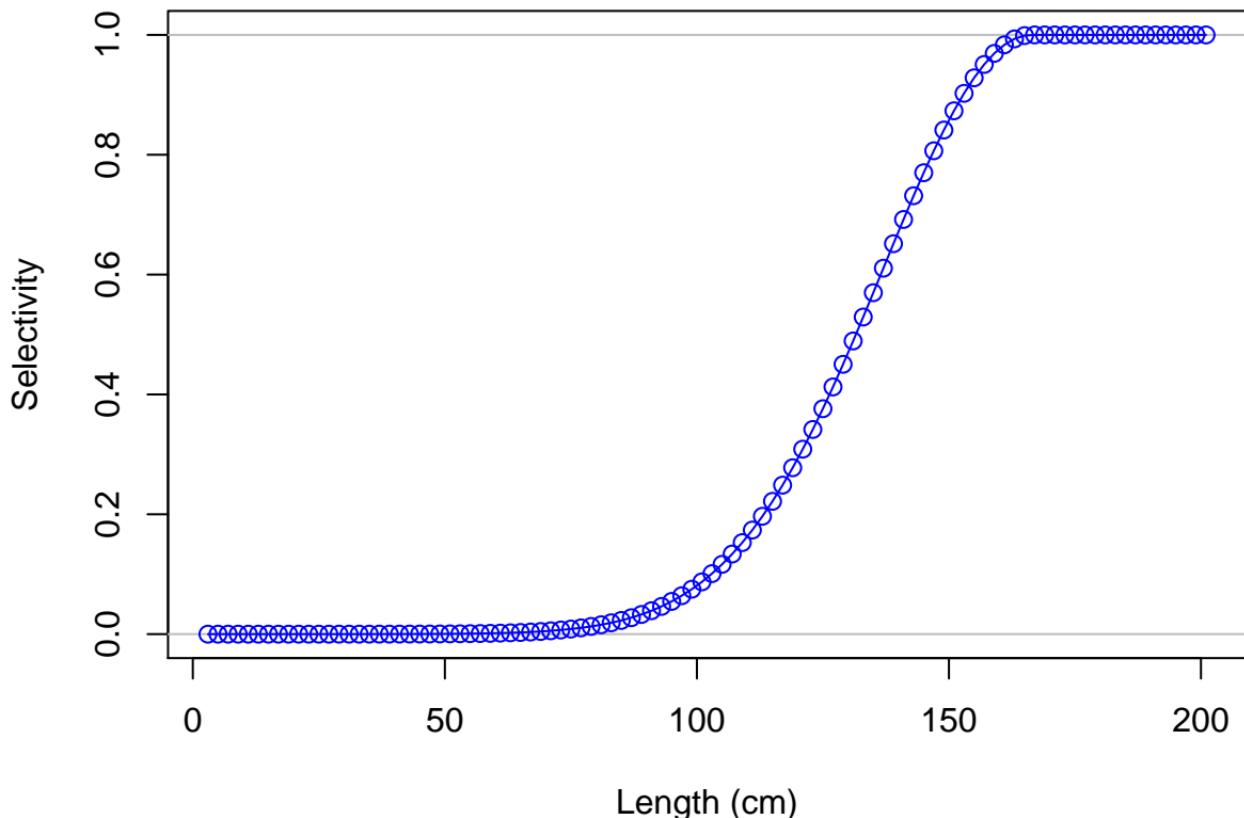
Female ending year selectivity for F20-DEL_S



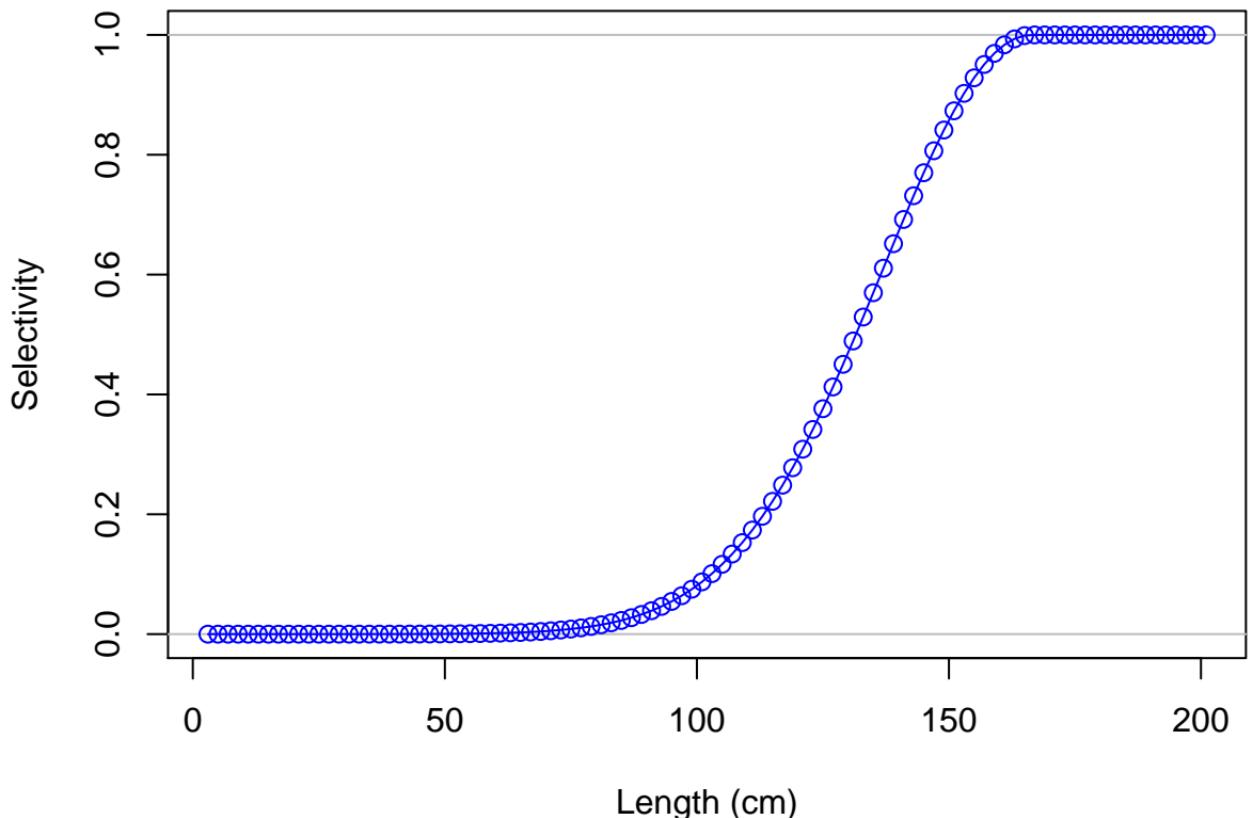
Male ending year selectivity for F20-DEL_S



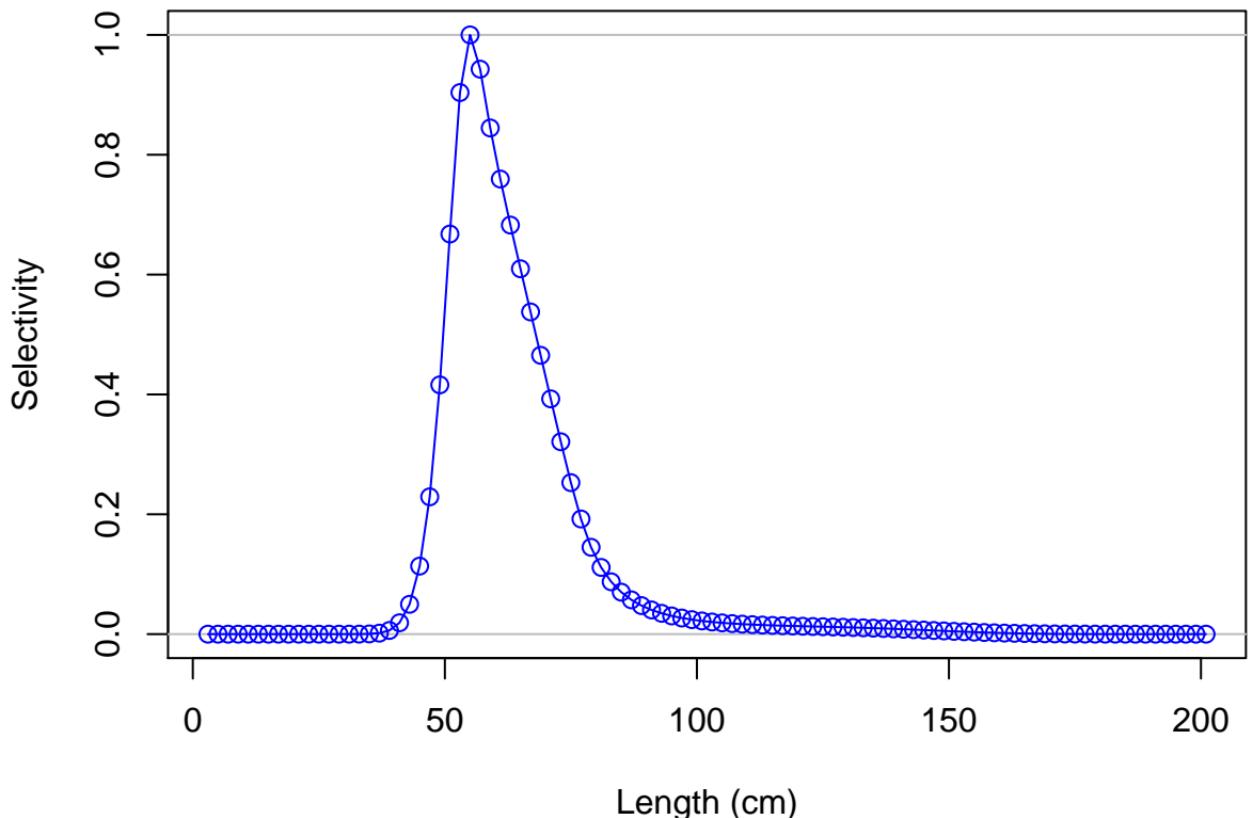
Female ending year selectivity for F21-DEL_I



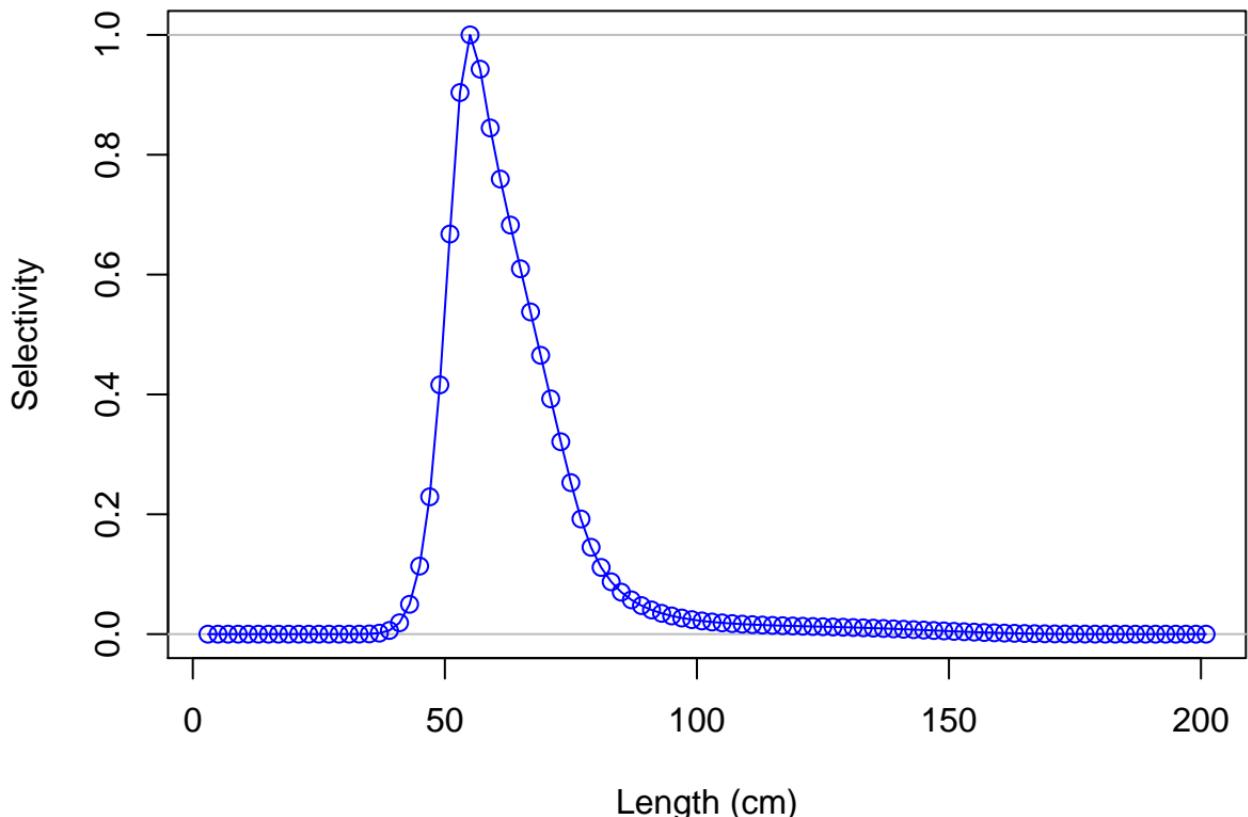
Male ending year selectivity for F21-DEL_I



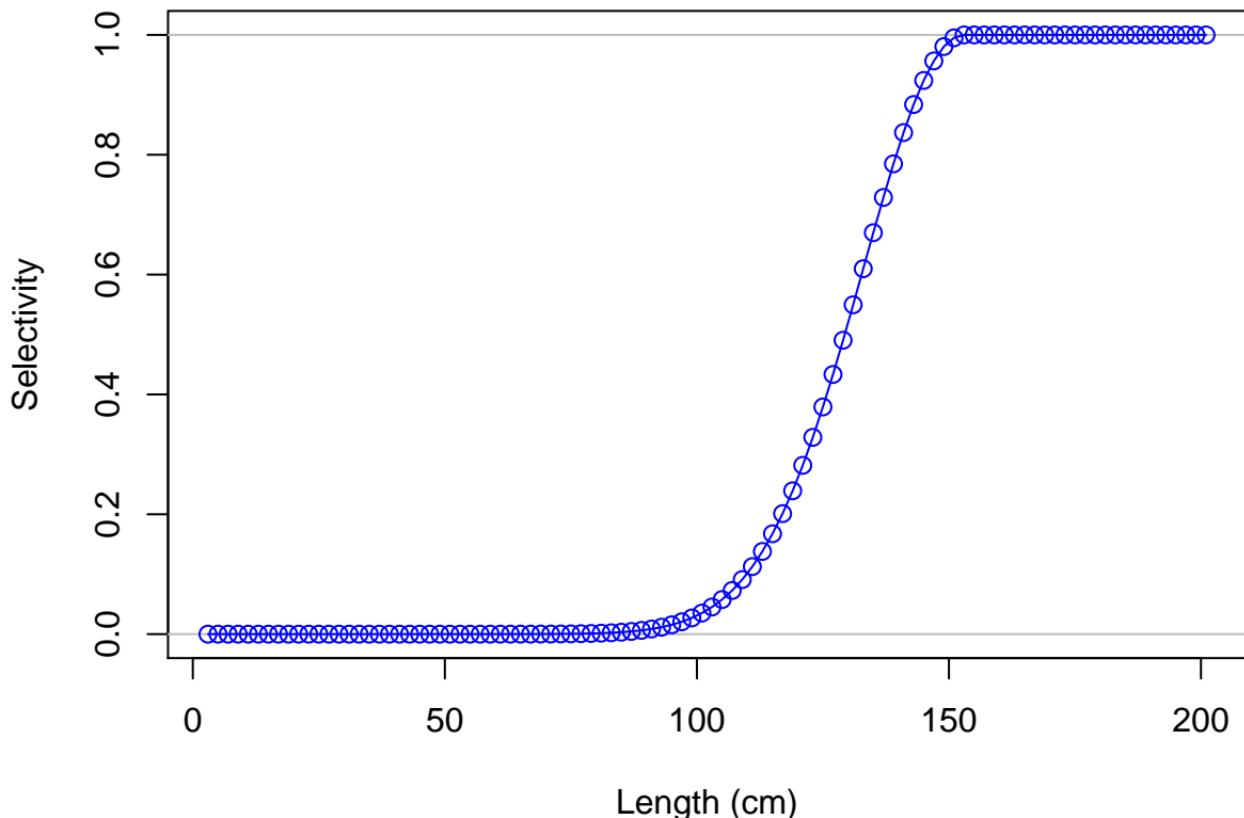
Female ending year selectivity for F22-BB



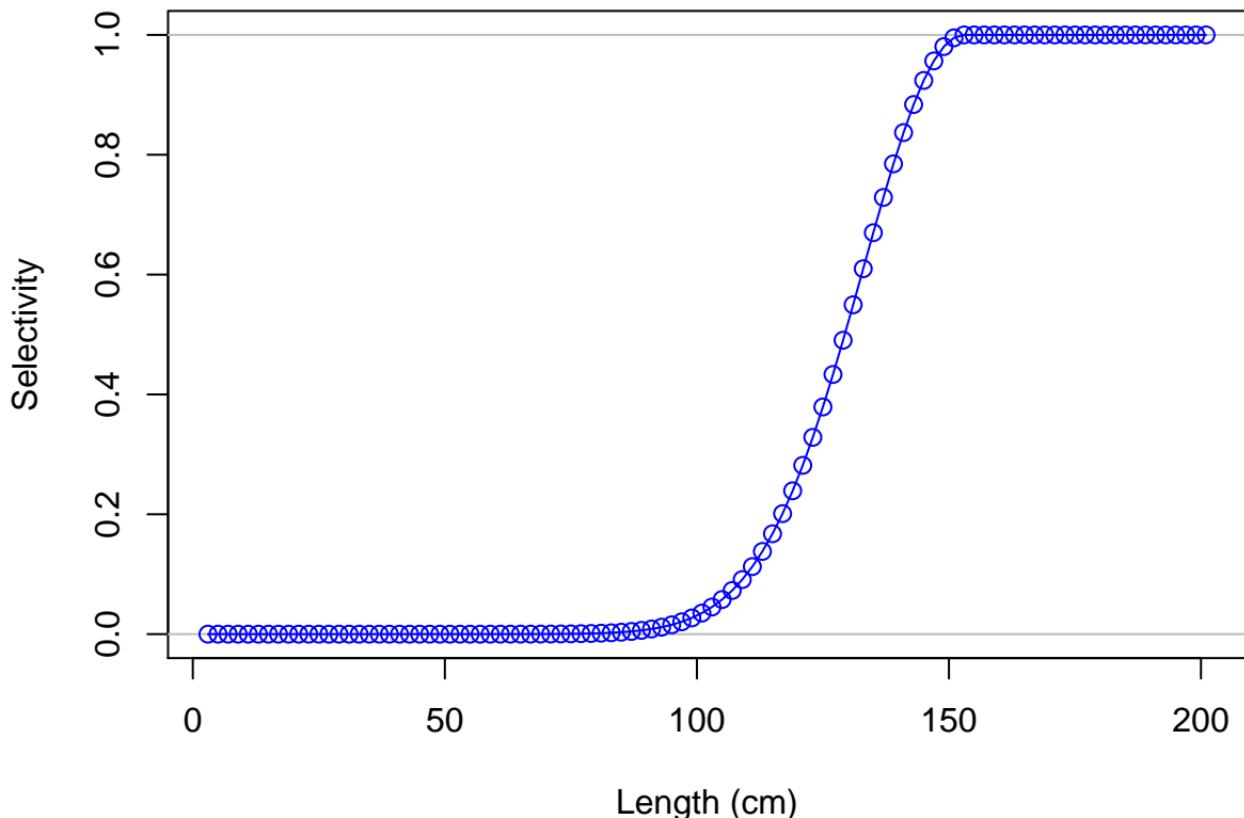
Male ending year selectivity for F22–BB



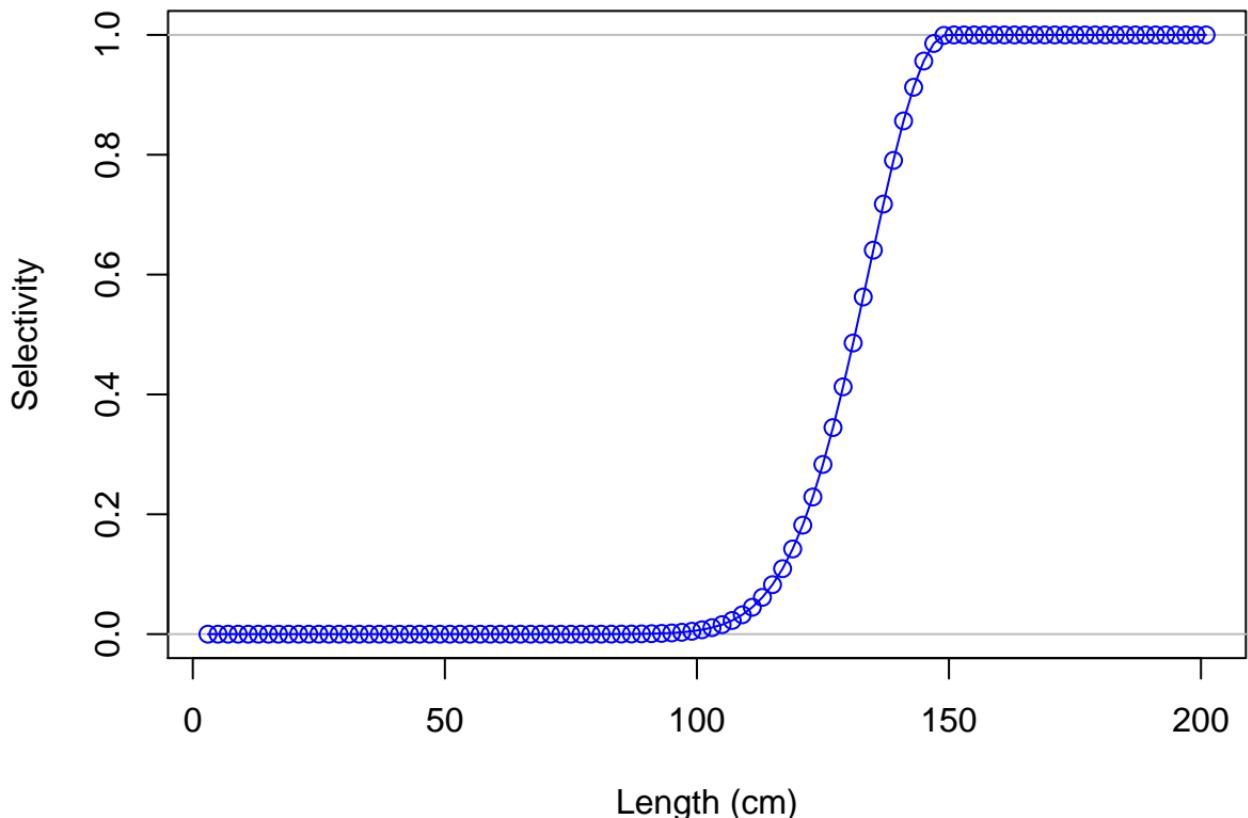
Female ending year selectivity for F29-LL_W_Q14n



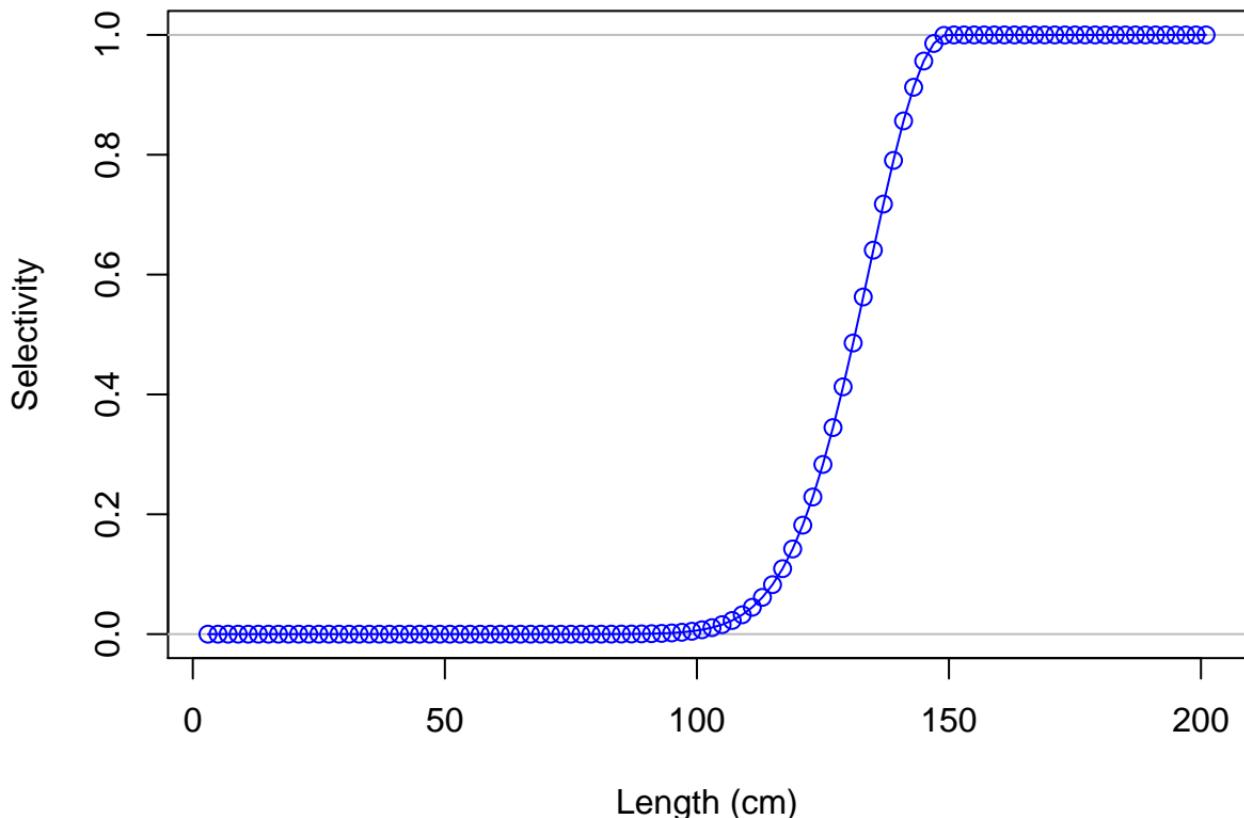
Male ending year selectivity for F29-LL_W_Q14n



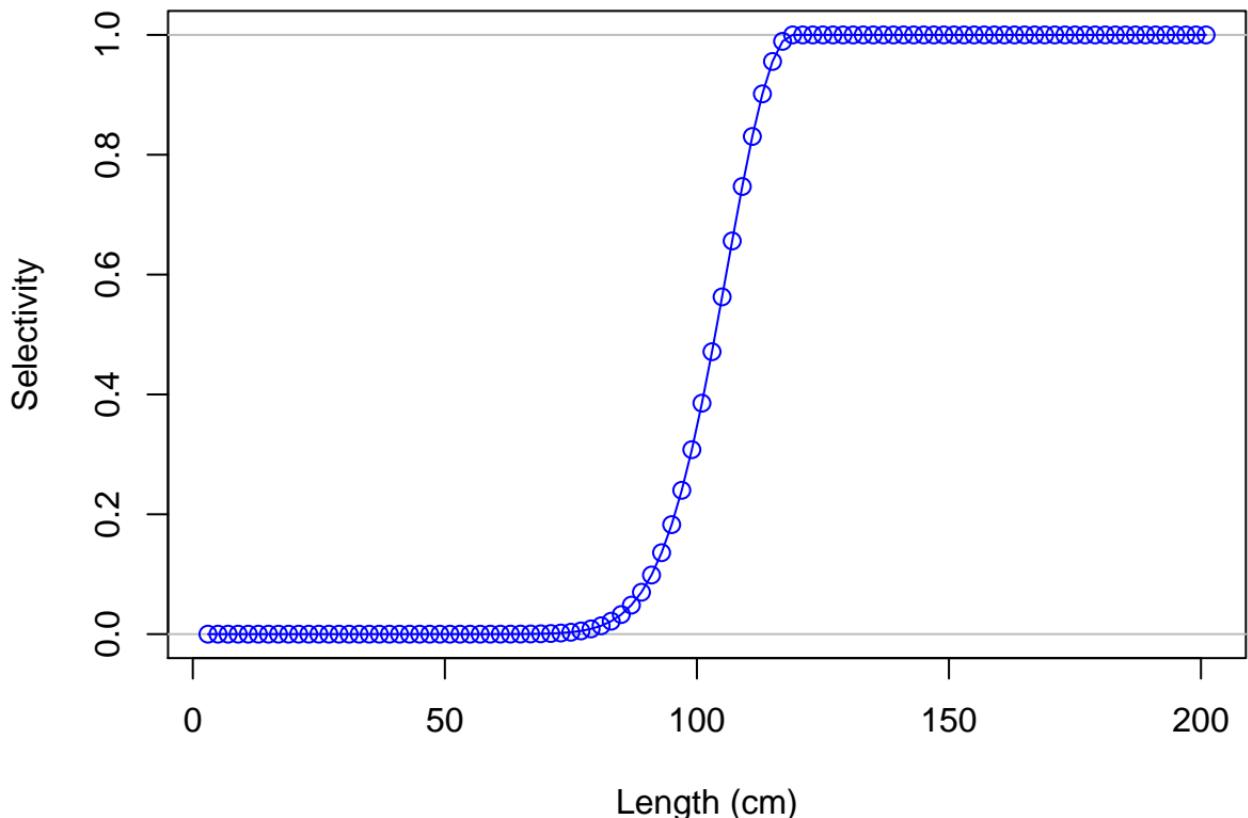
Female ending year selectivity for F30-LL_C_Q14n



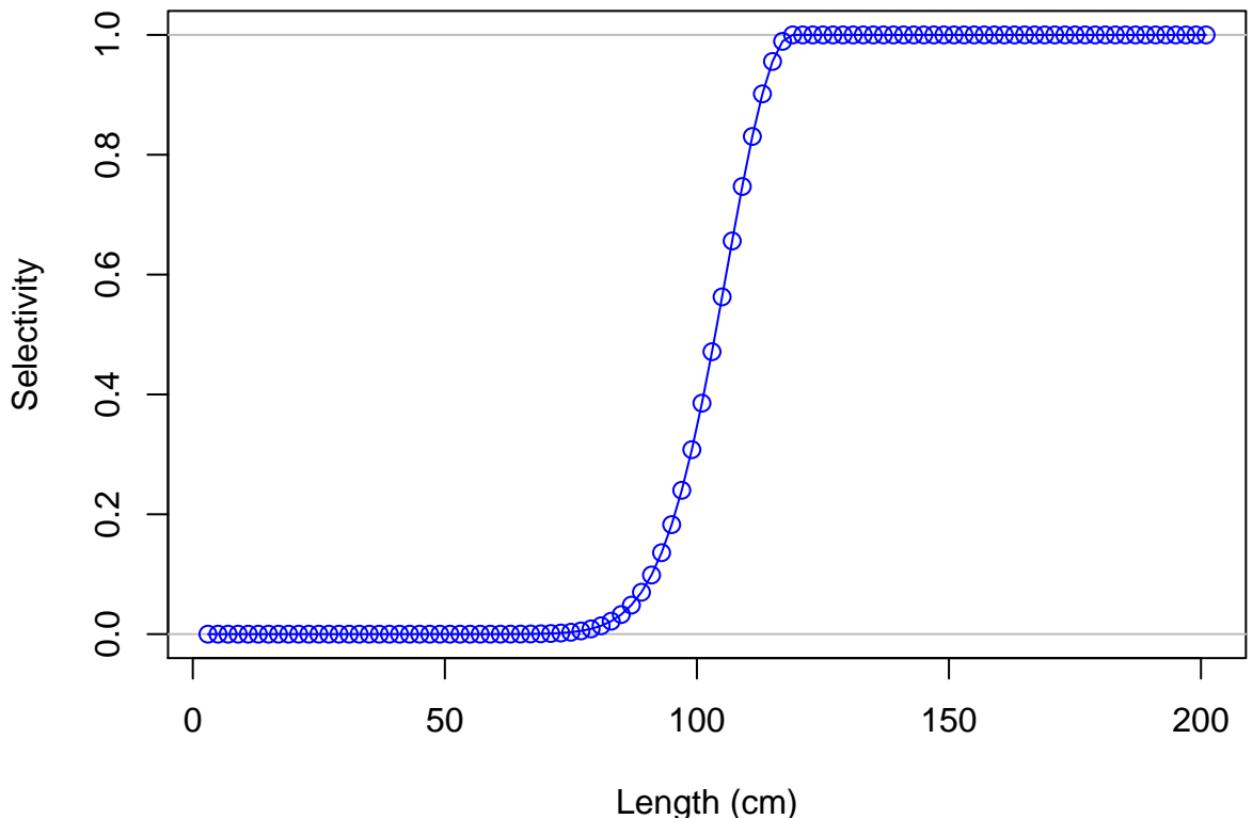
Male ending year selectivity for F30-LL_C_Q14n



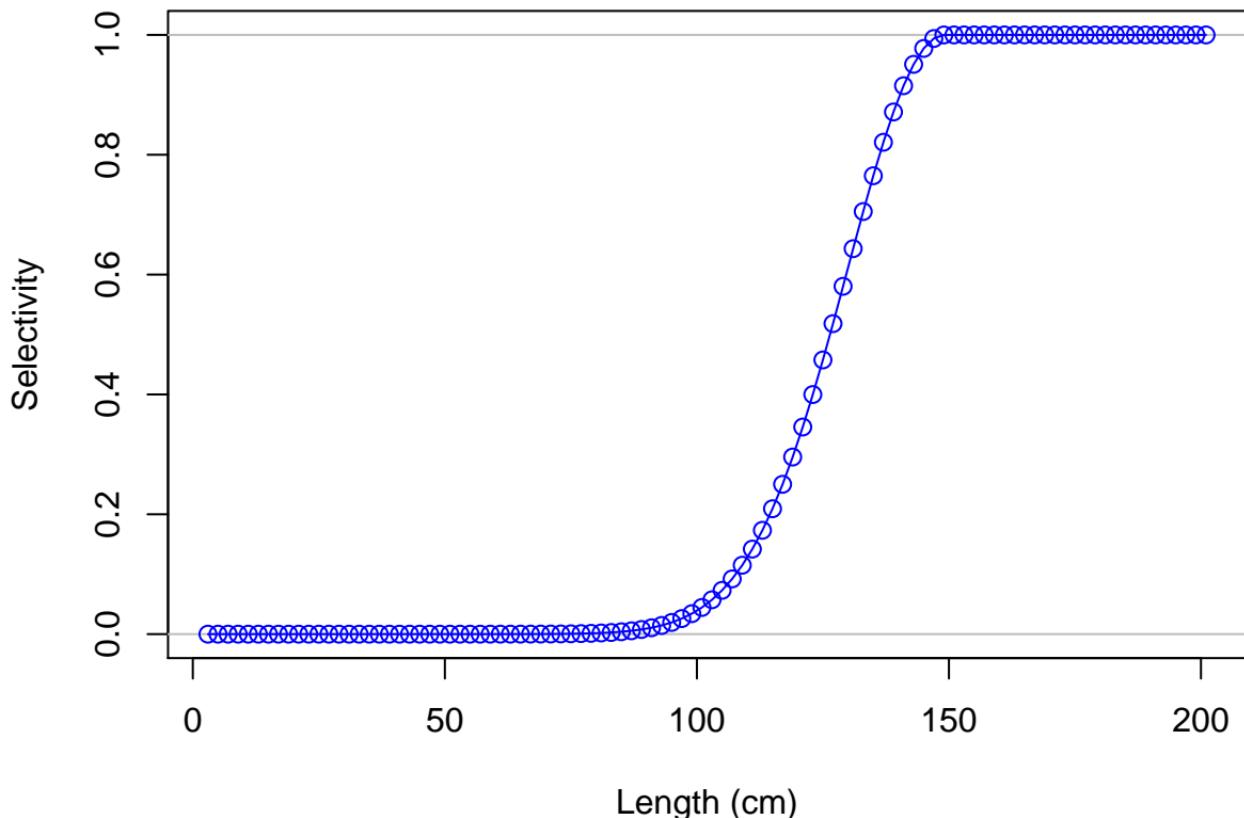
Female ending year selectivity for F31-LL_E_Q14n



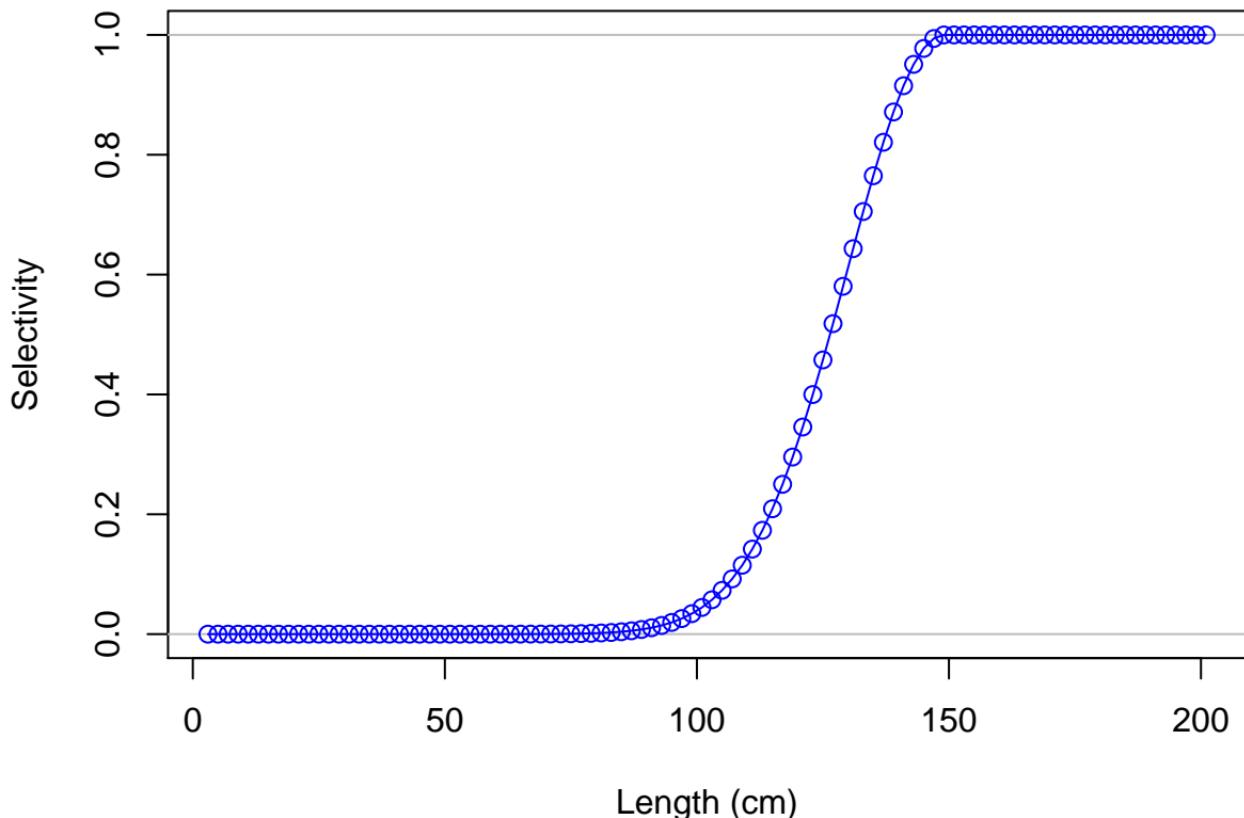
Male ending year selectivity for F31-LL_E_Q14n



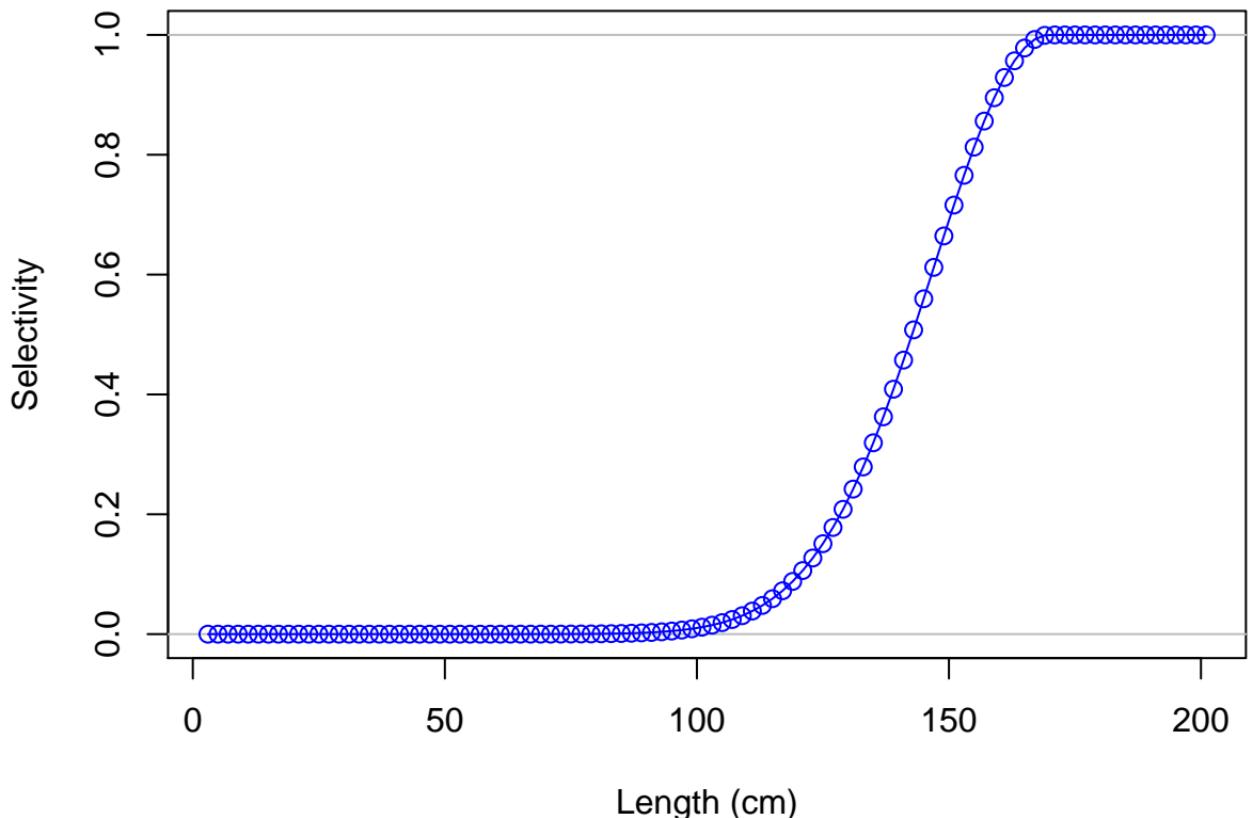
Female ending year selectivity for F32-LL_W_Q23n



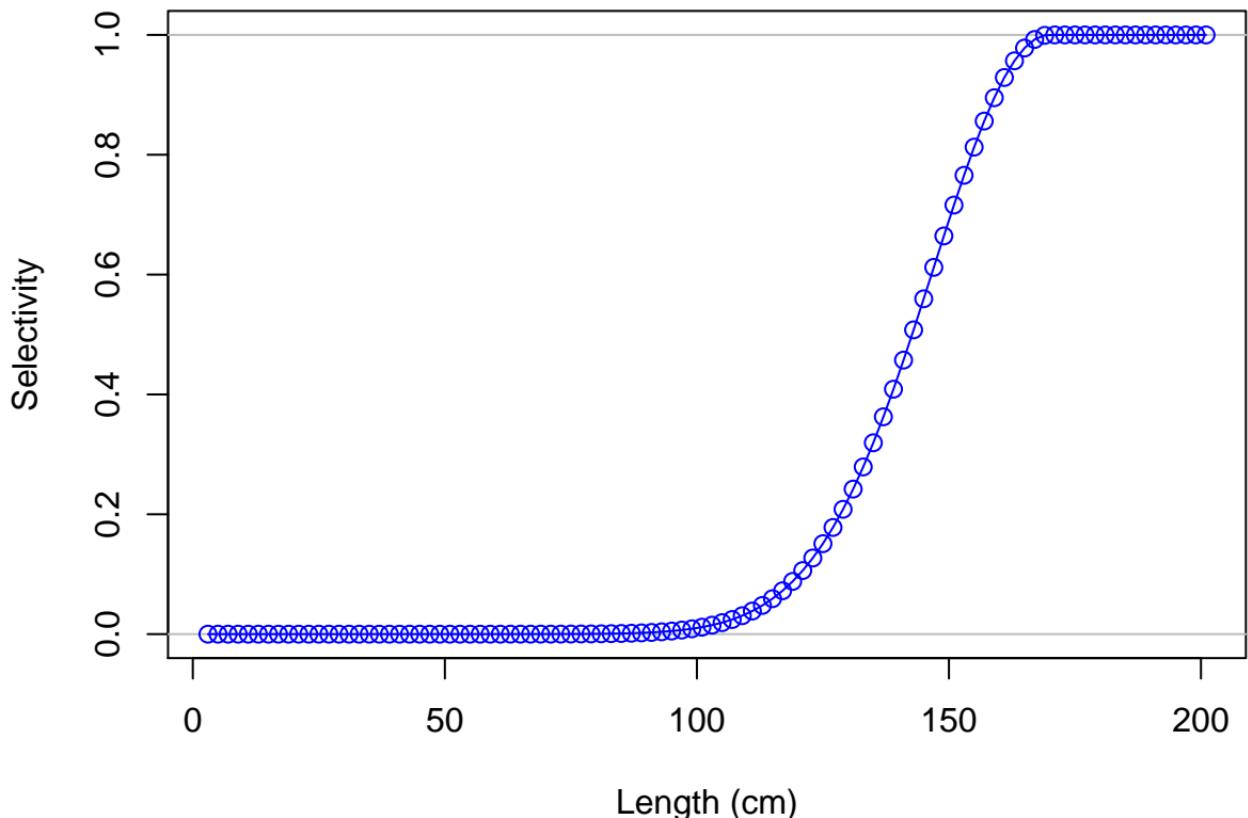
Male ending year selectivity for F32-LL_W_Q23n



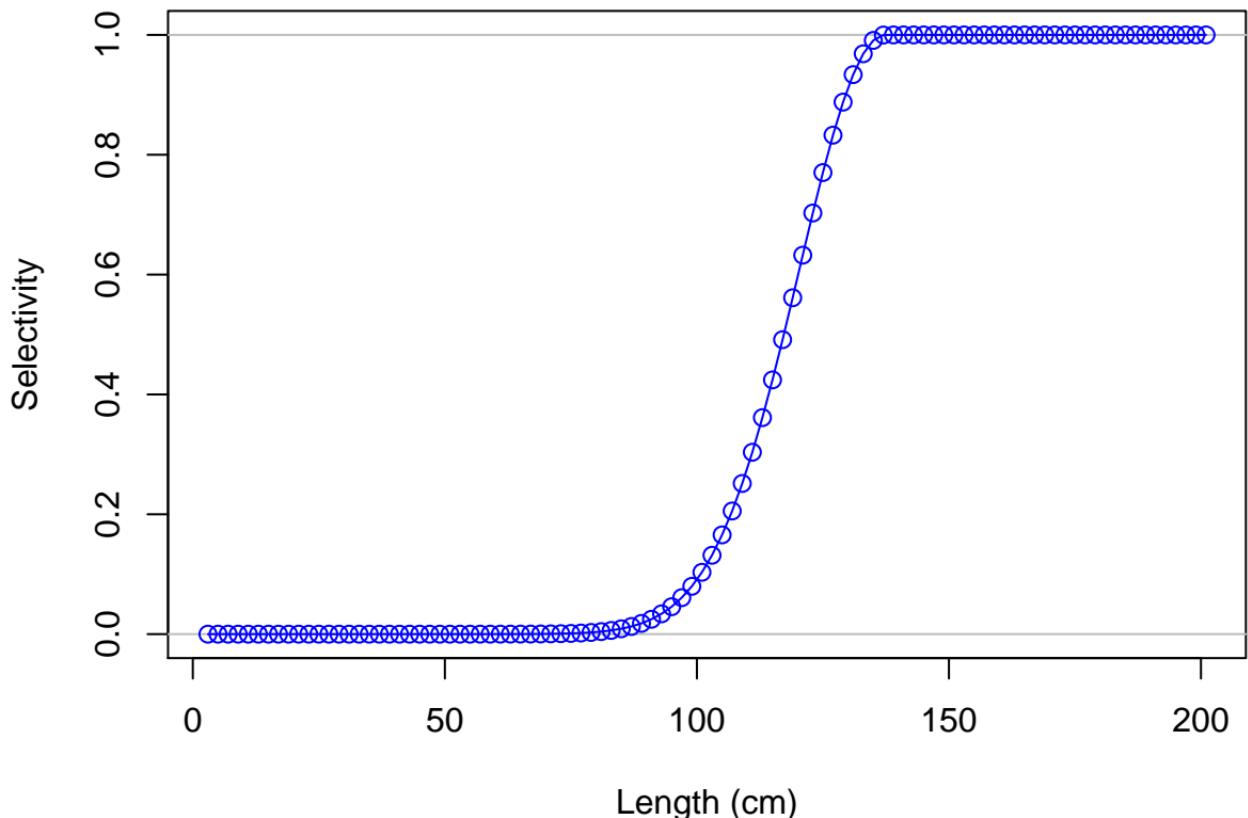
Female ending year selectivity for F33-LL_C_Q23n



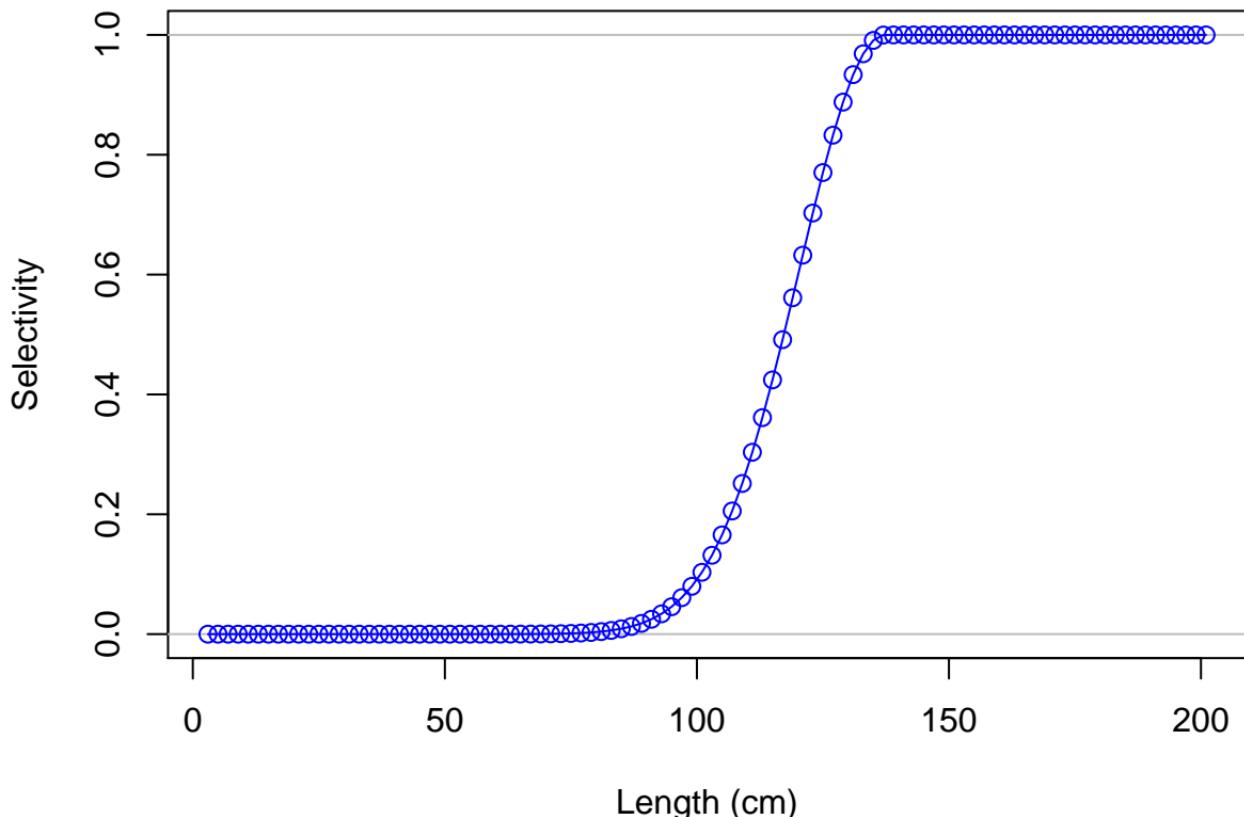
Male ending year selectivity for F33-LL_C_Q23n



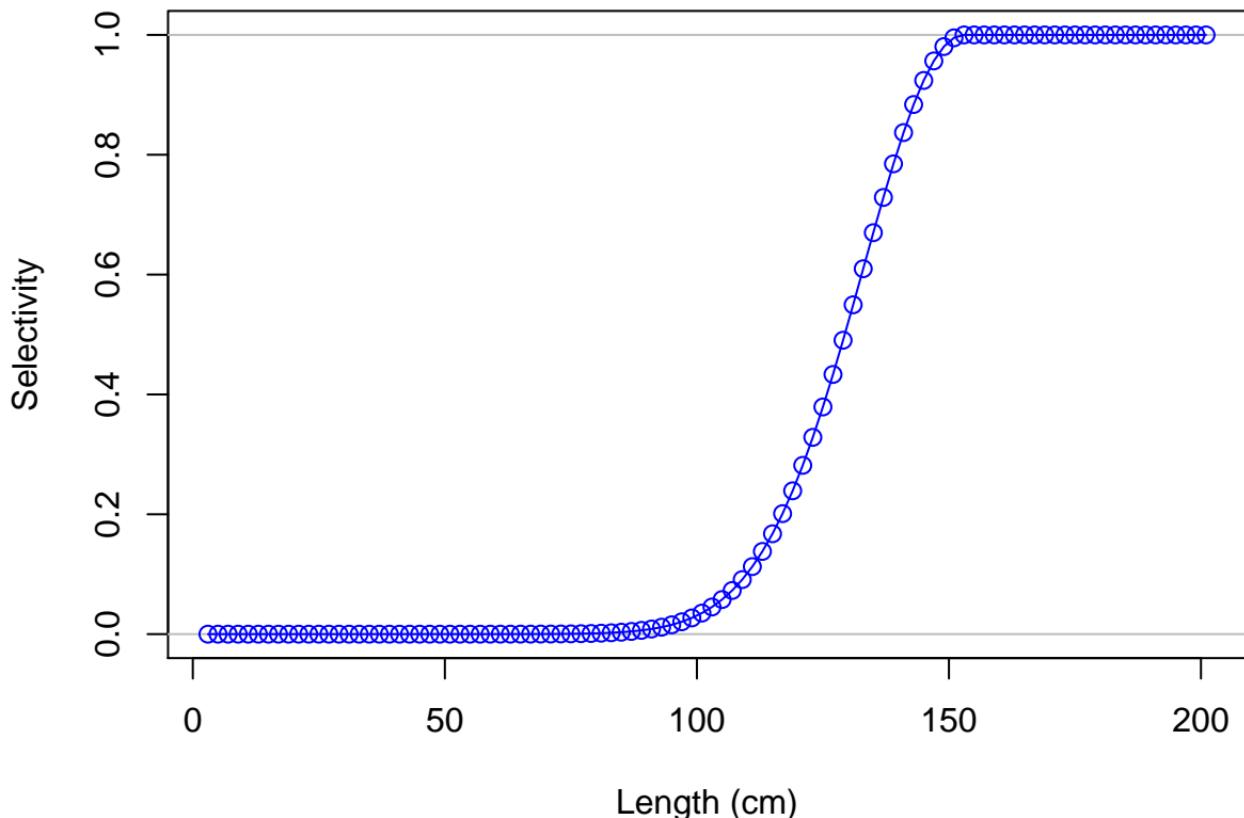
Female ending year selectivity for F34-LL_E_Q23n



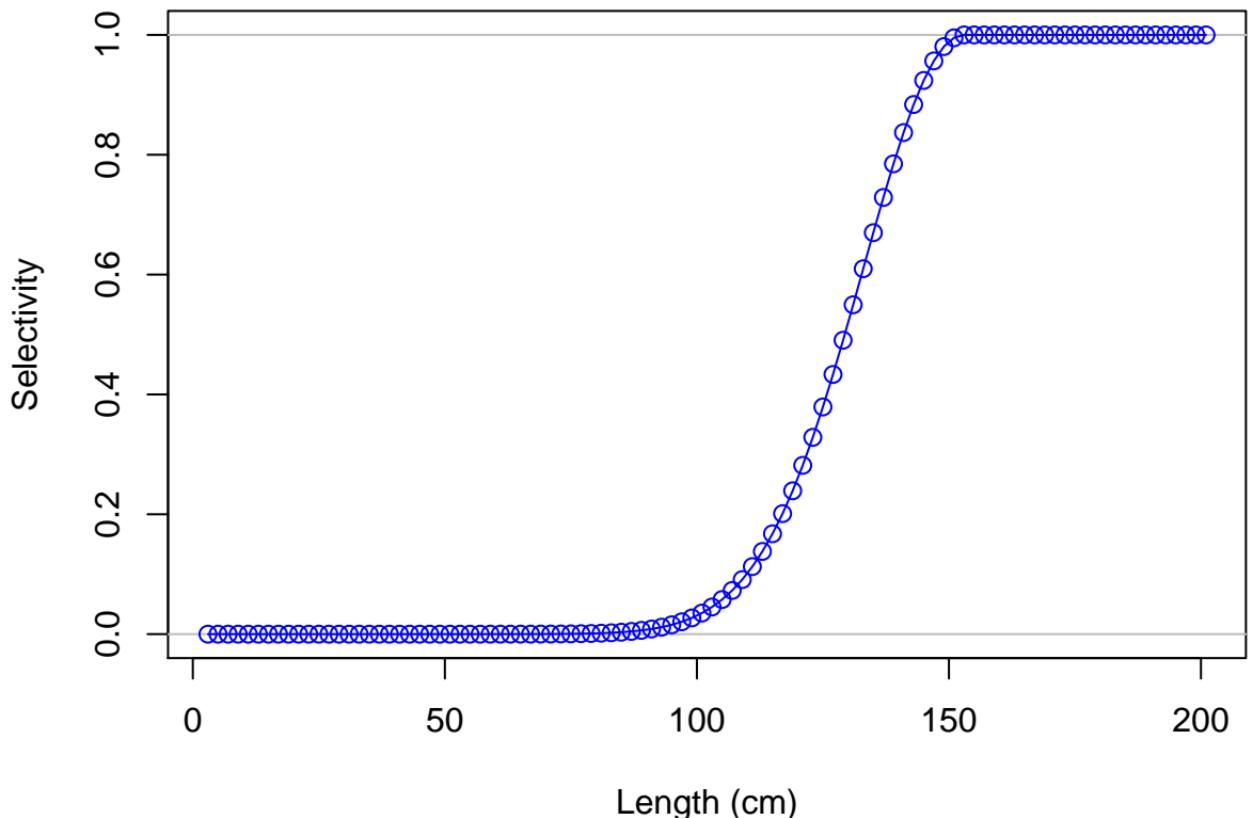
Male ending year selectivity for F34-LL_E_Q23n



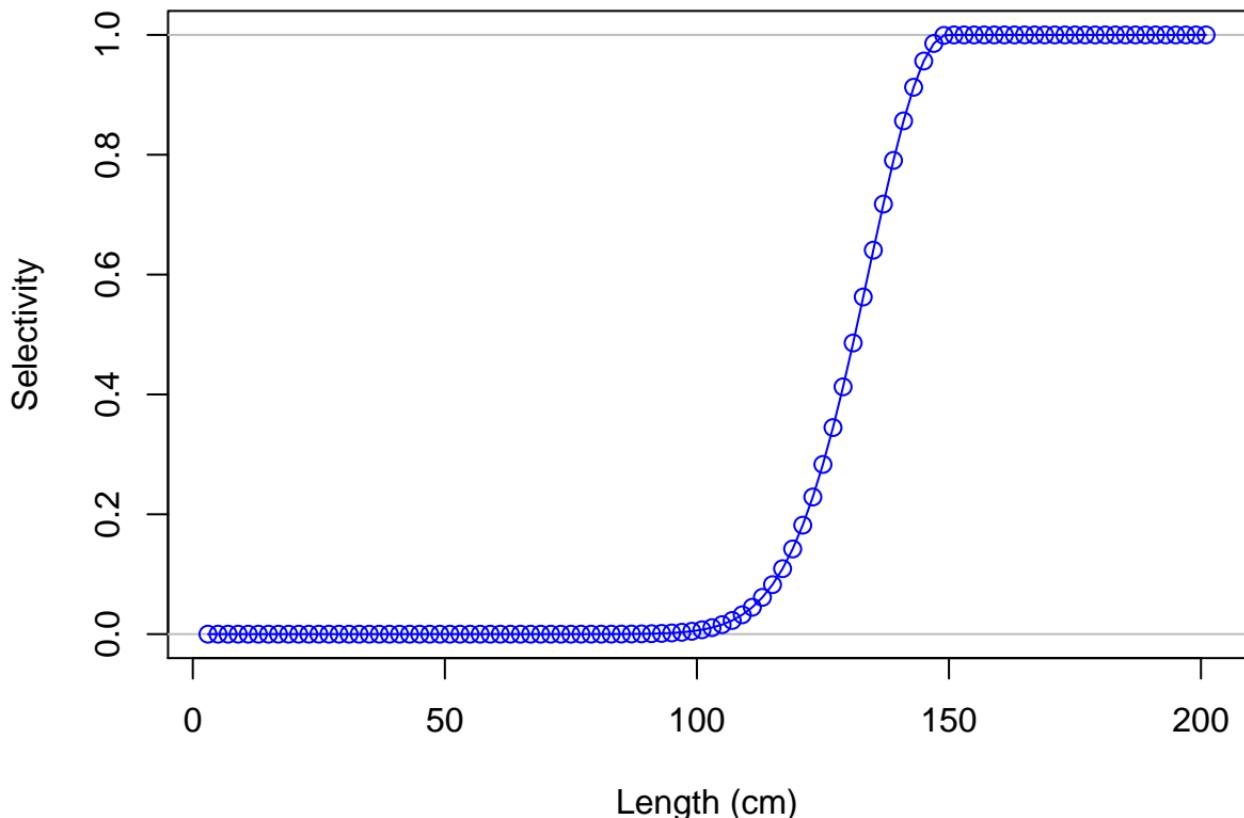
Female ending year selectivity for F35-LL_W_Q14w



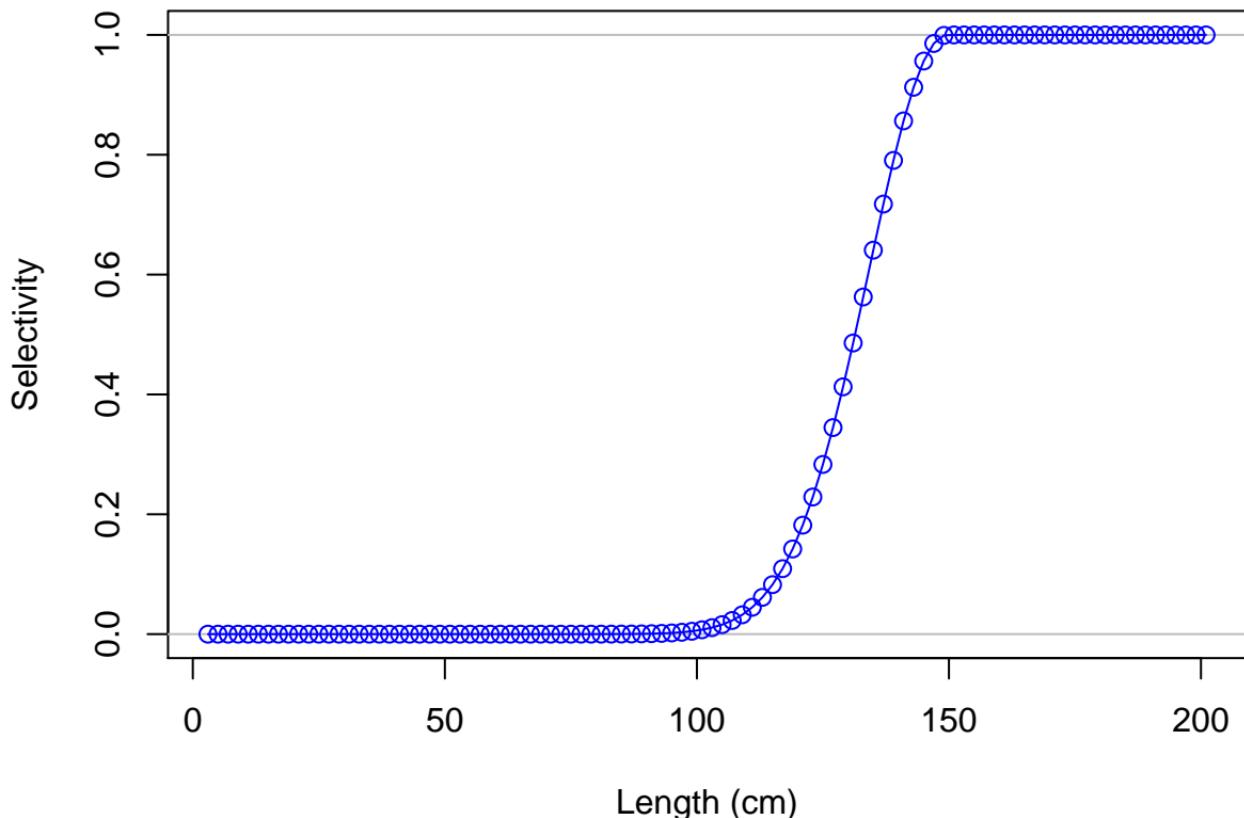
Male ending year selectivity for F35-LL_W_Q14w



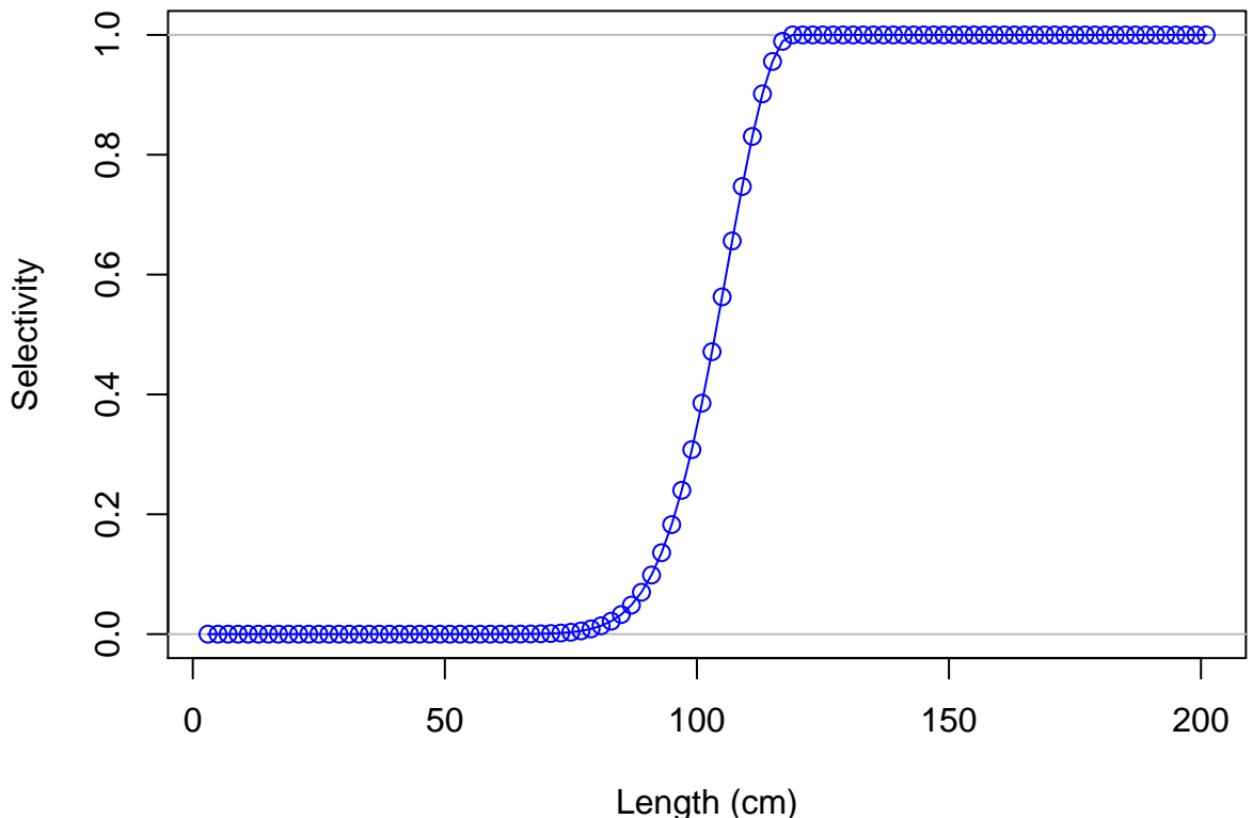
Female ending year selectivity for F36-LL_C_Q14w



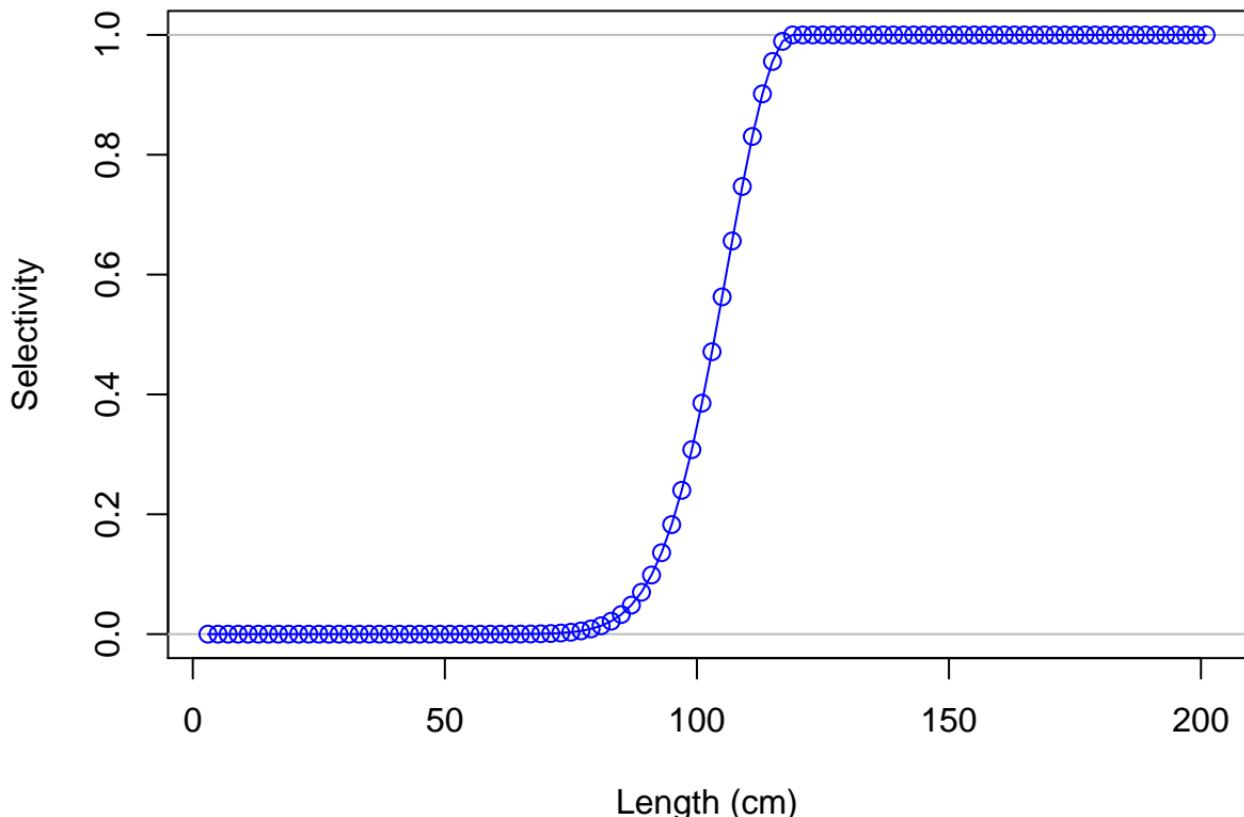
Male ending year selectivity for F36-LL_C_Q14w



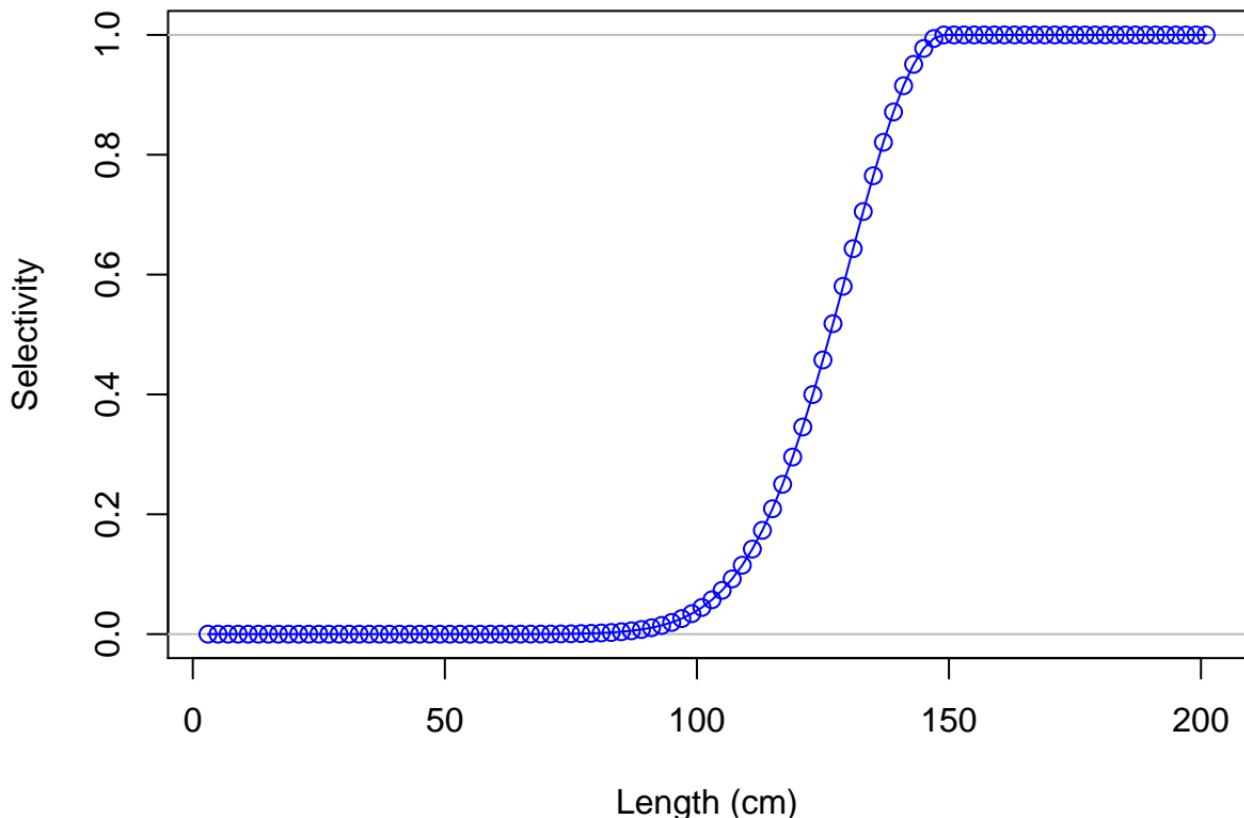
Female ending year selectivity for F37-LL_E_Q14w



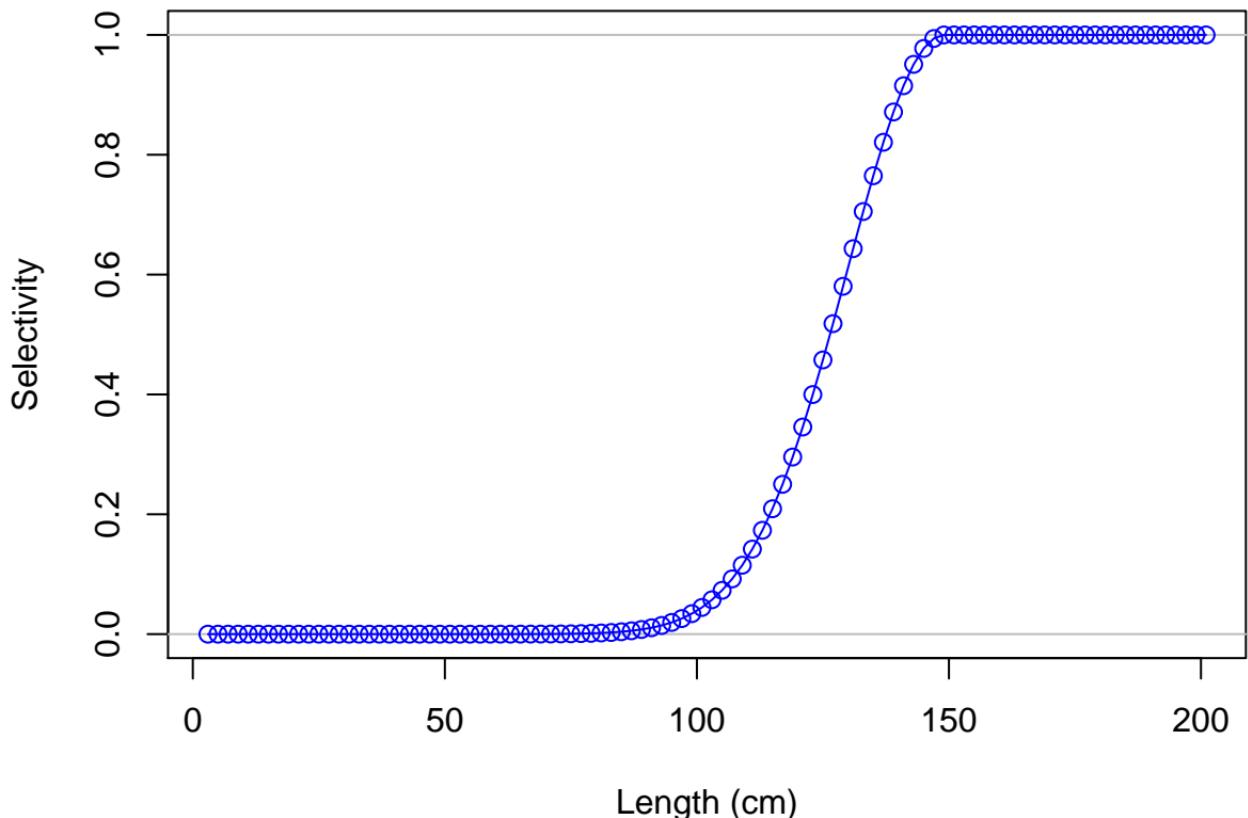
Male ending year selectivity for F37-LL_E_Q14w



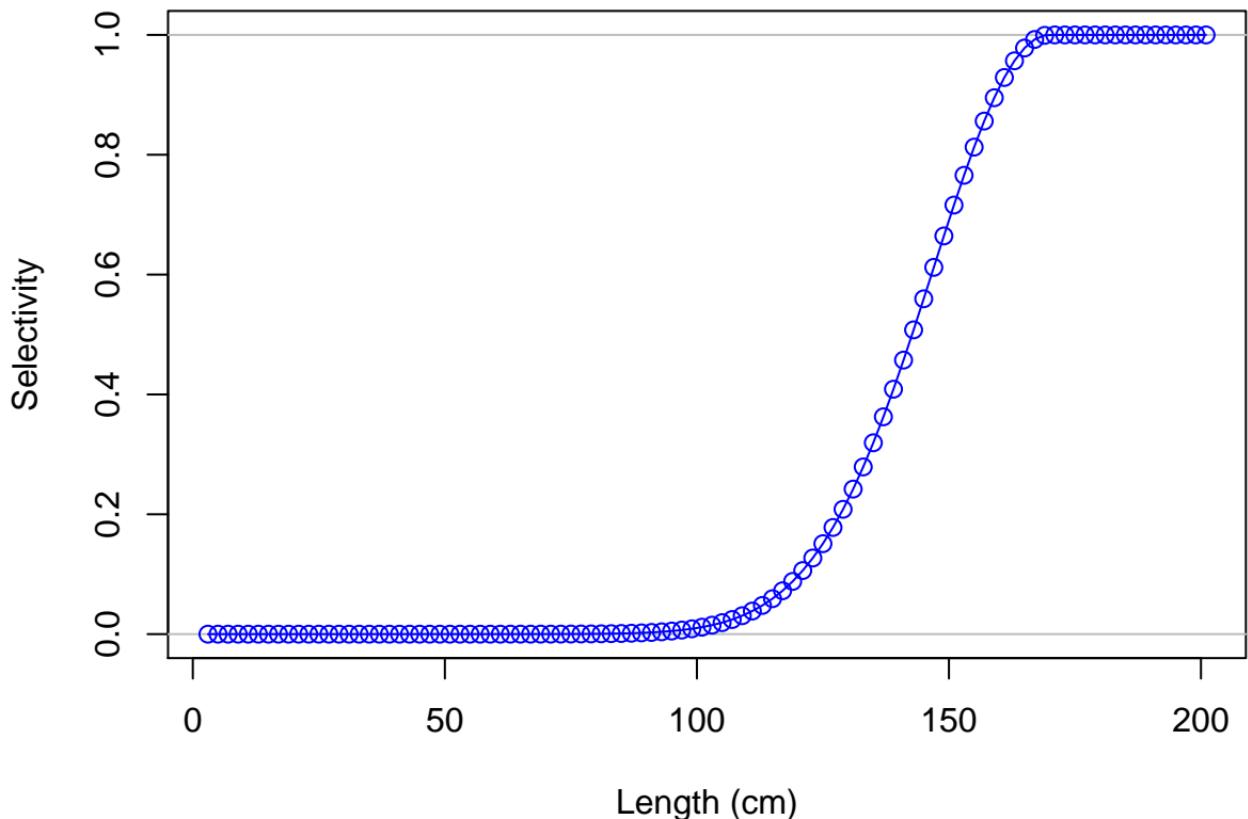
Female ending year selectivity for F38-LL_W_Q23w



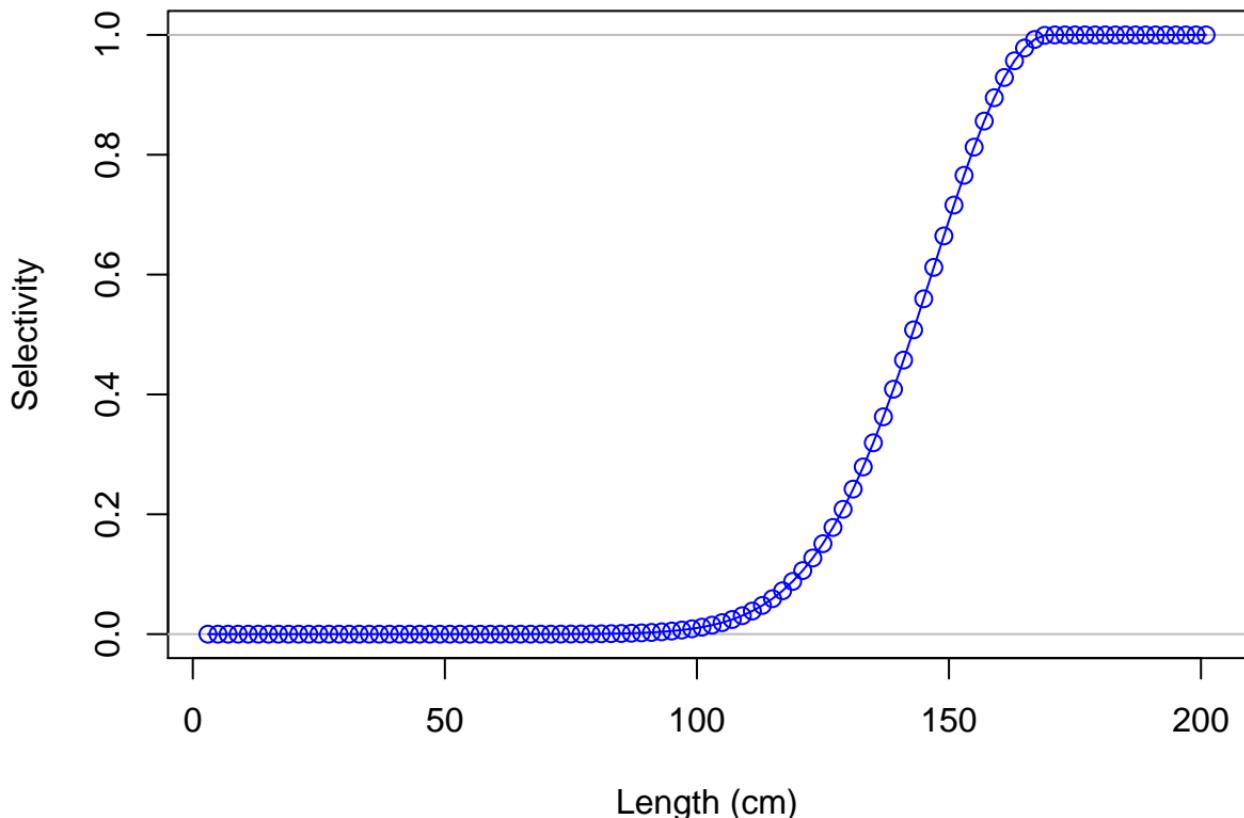
Male ending year selectivity for F38-LL_W_Q23w



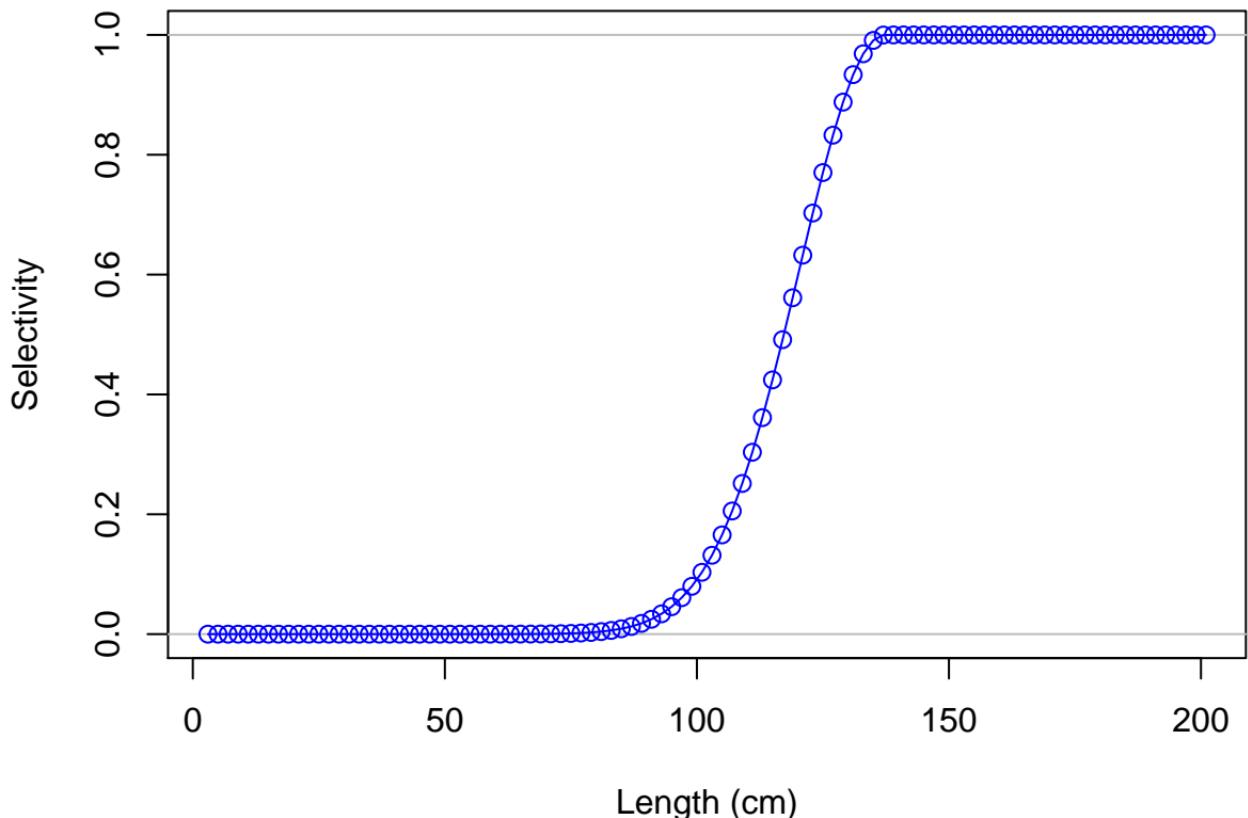
Female ending year selectivity for F39-LL_C_Q23w



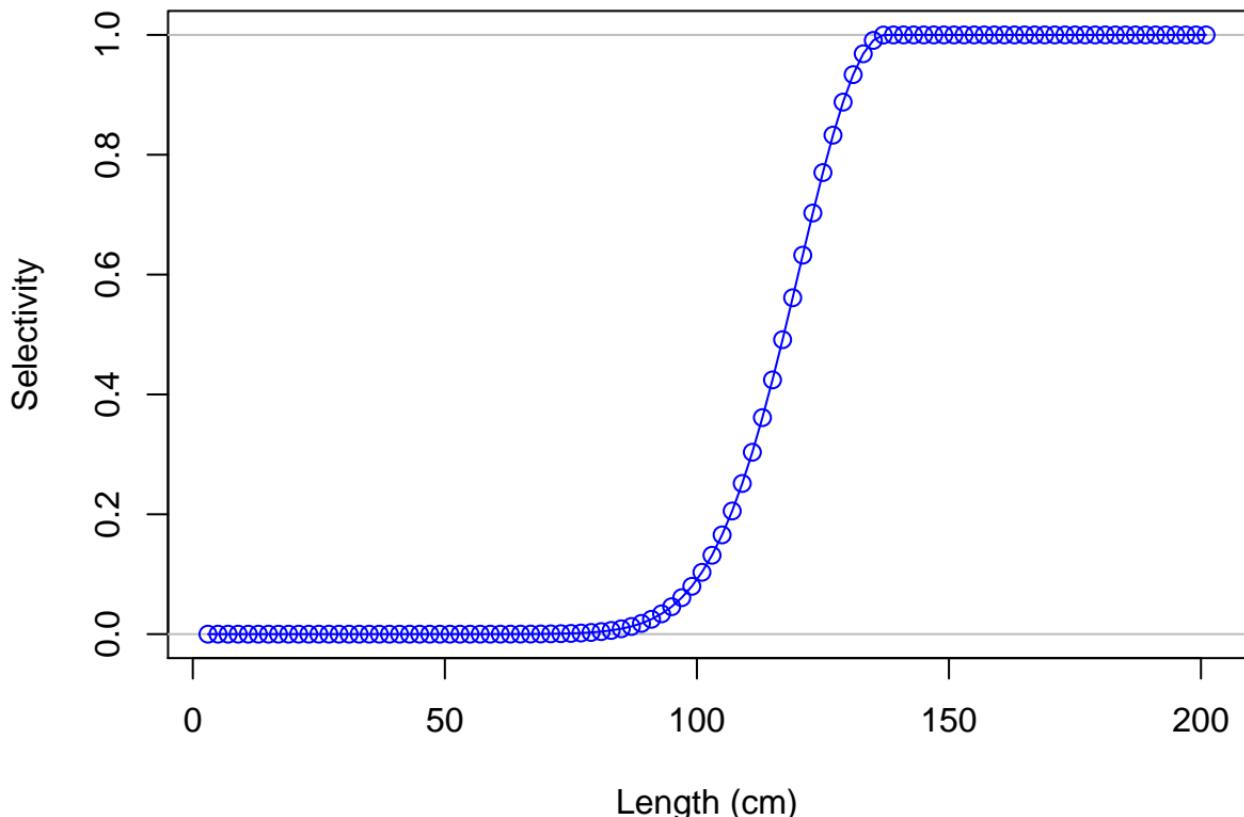
Male ending year selectivity for F39-LL_C_Q23w



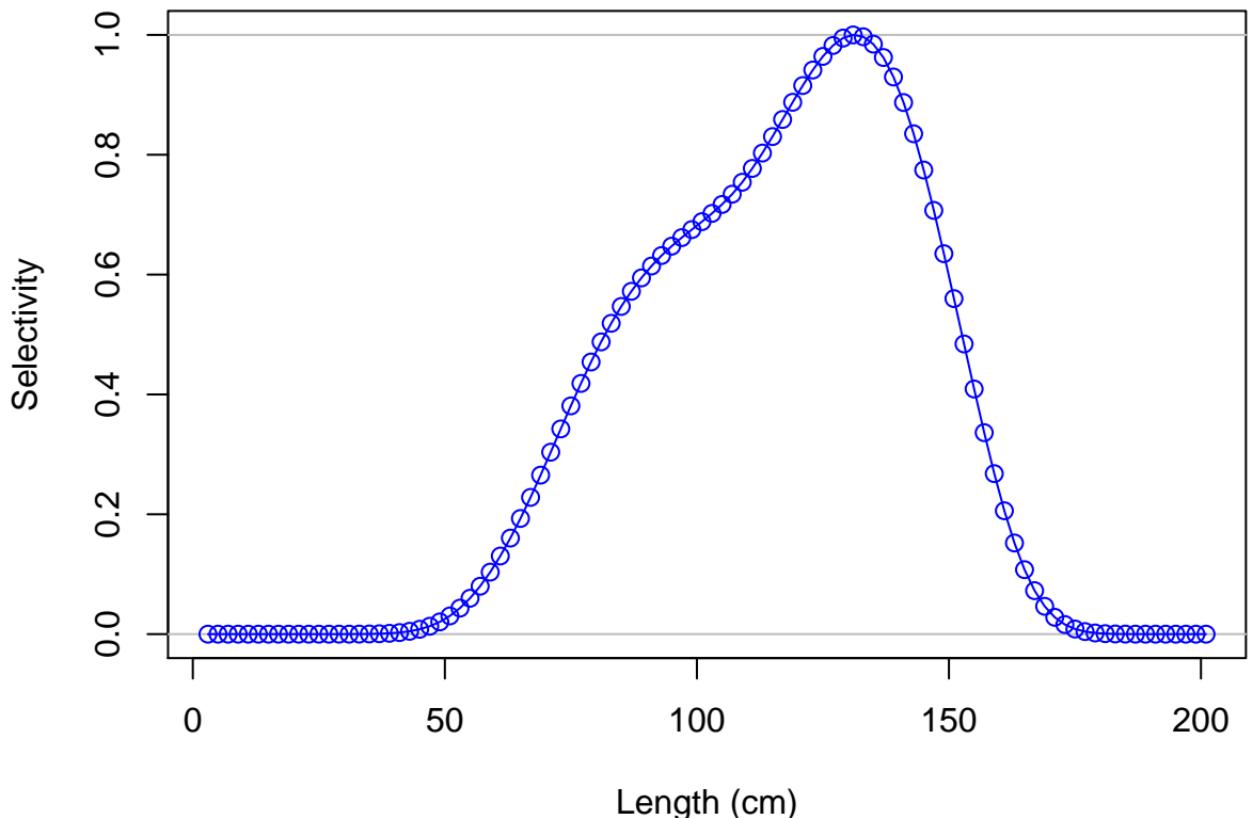
Female ending year selectivity for F40-LL_E_Q23w



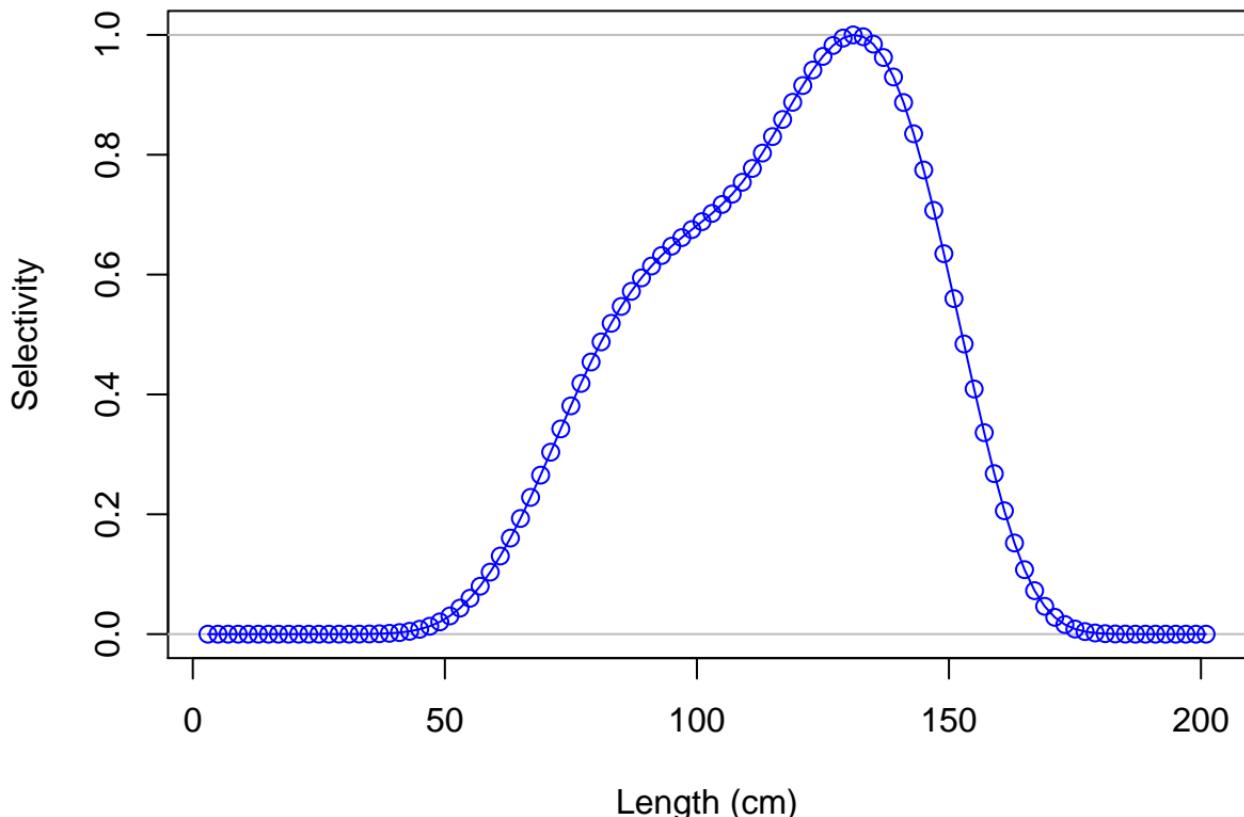
Male ending year selectivity for F40-LL_E_Q23w



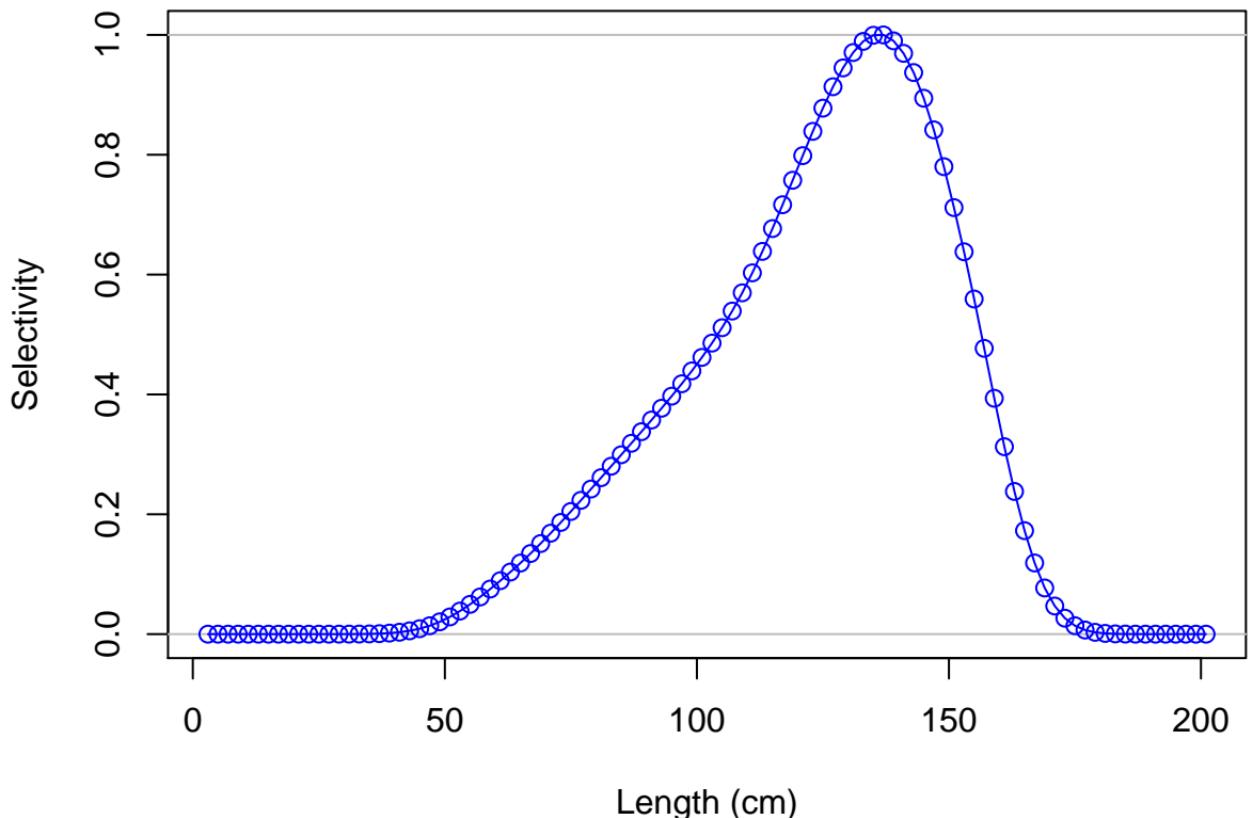
Female ending year selectivity for S1-PS_DEL_VAST



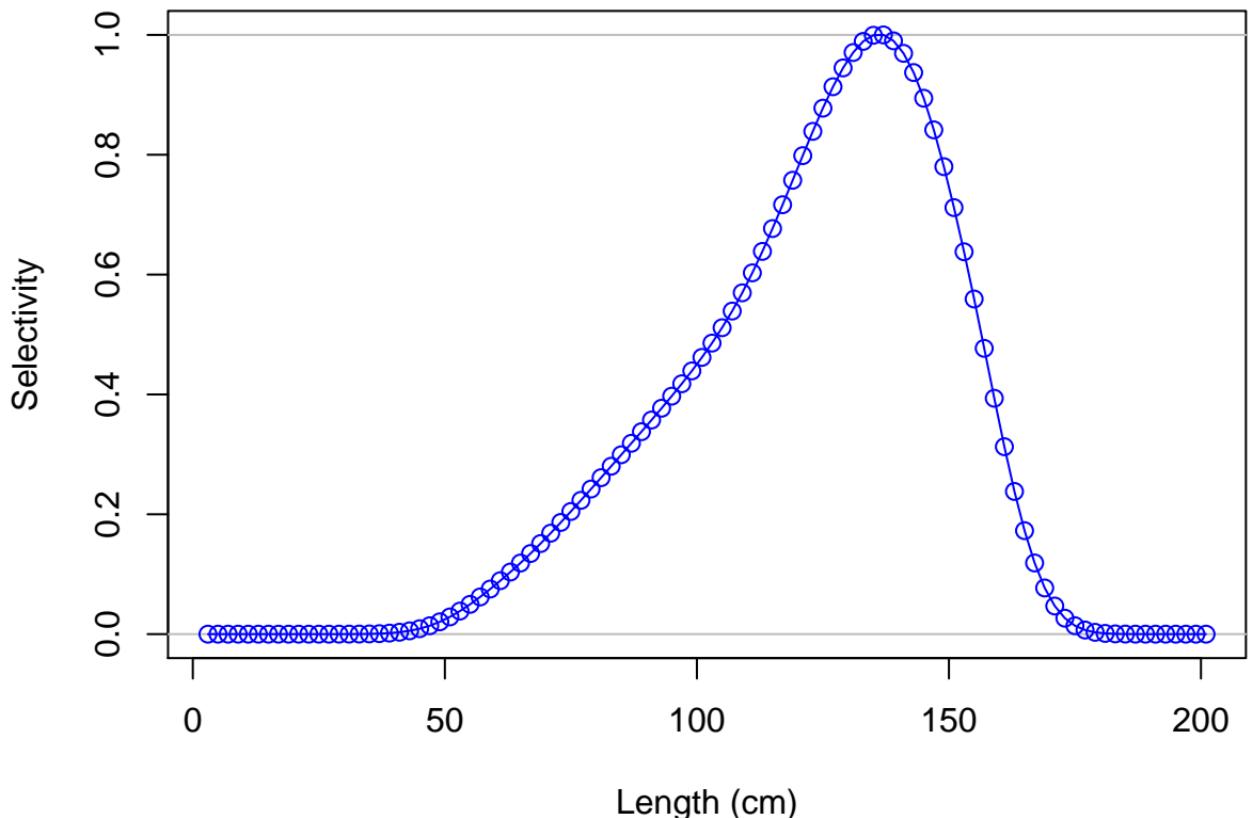
Male ending year selectivity for S1-PS_DEL_VAST



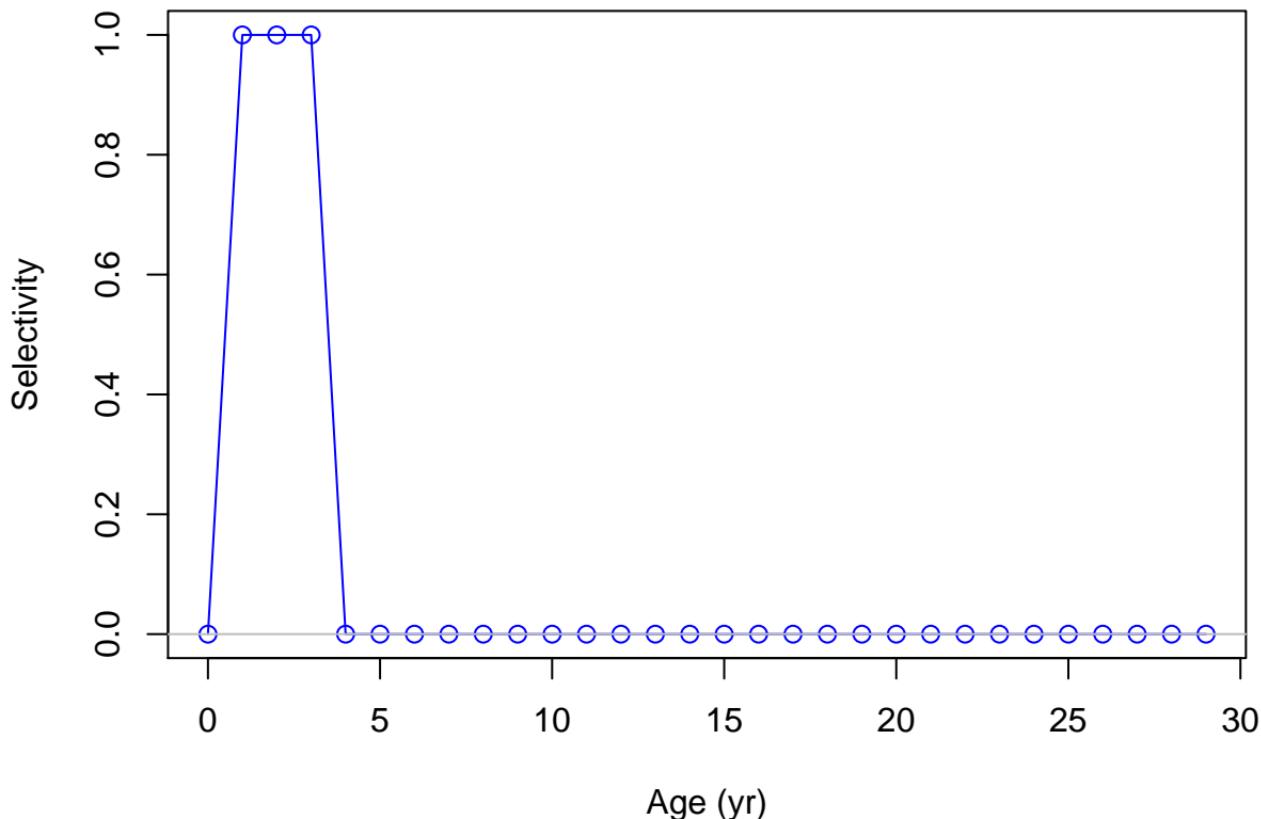
Female ending year selectivity for S4-PS_late_VAST



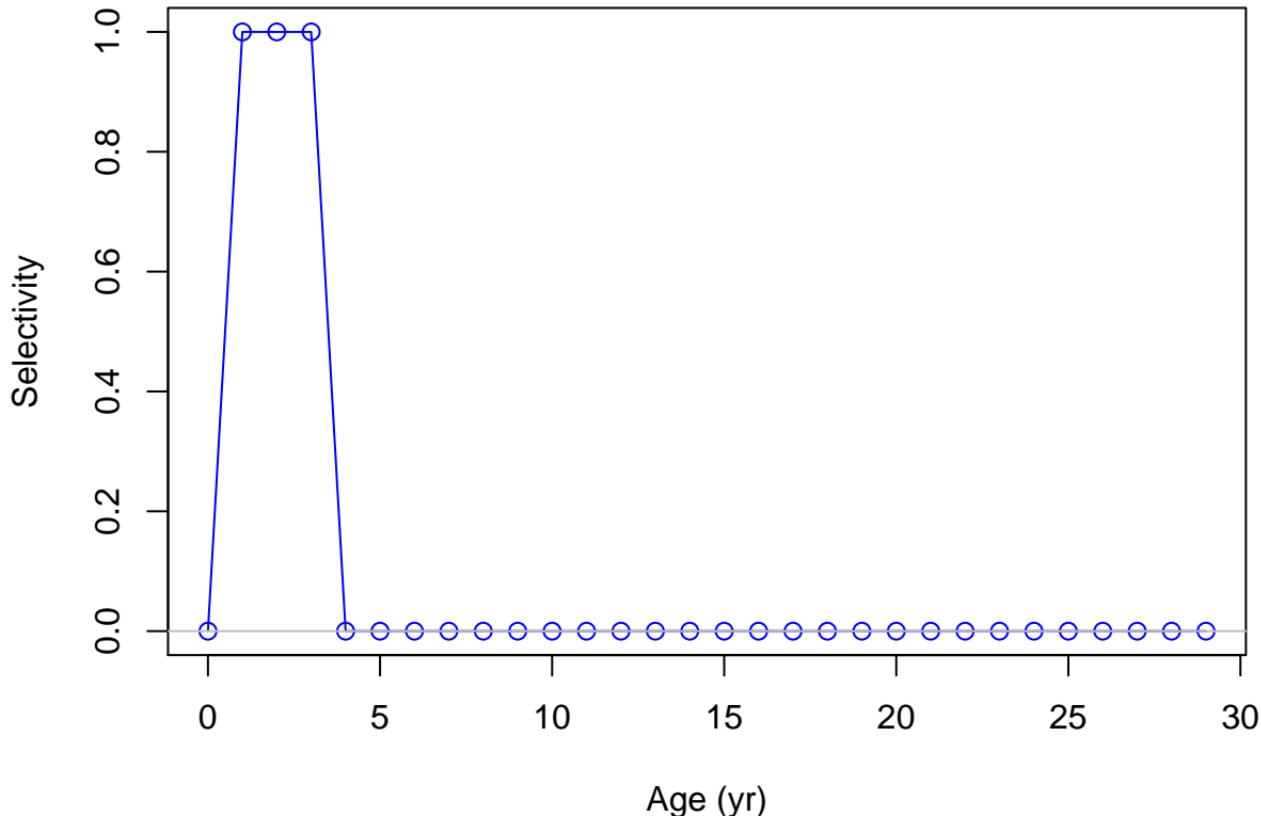
Male ending year selectivity for S4-PS_late_VAST



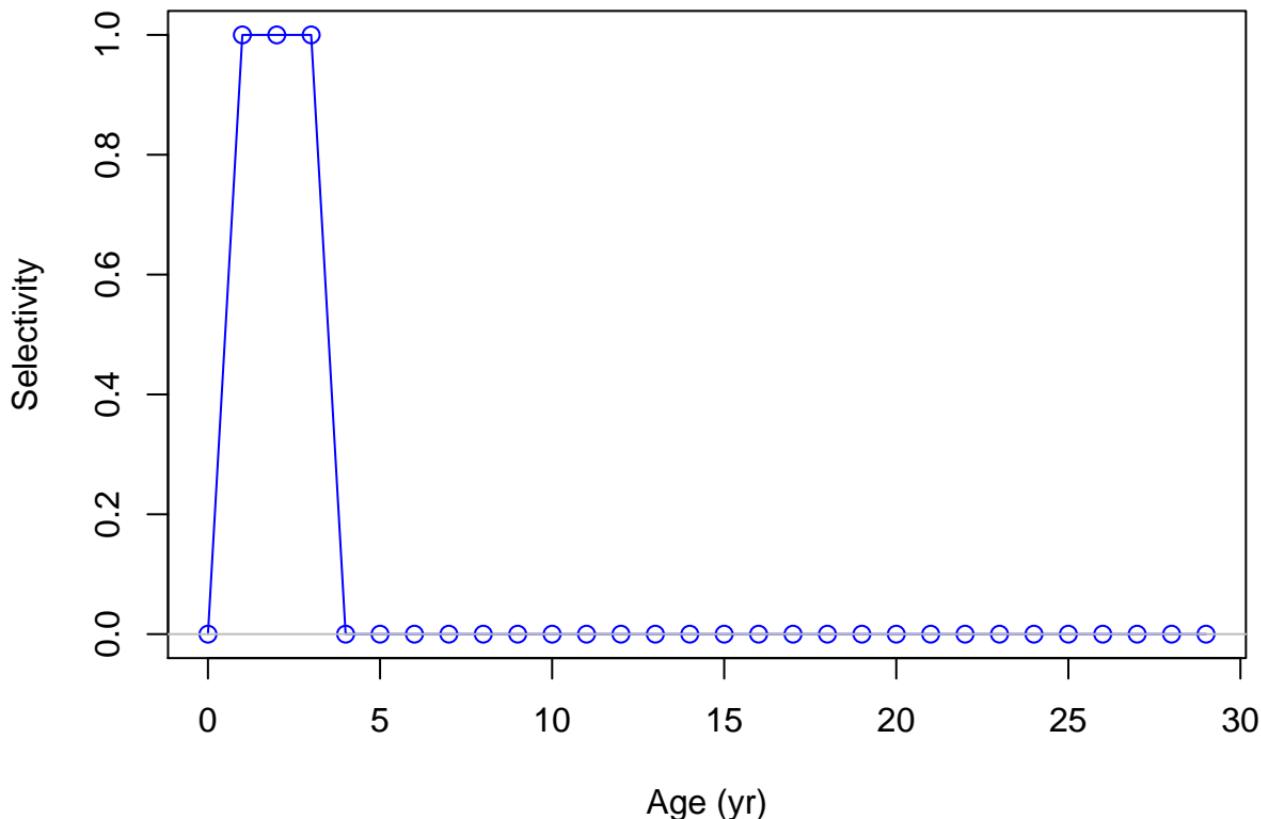
Female ending year selectivity for F25–OBJ_S_disc



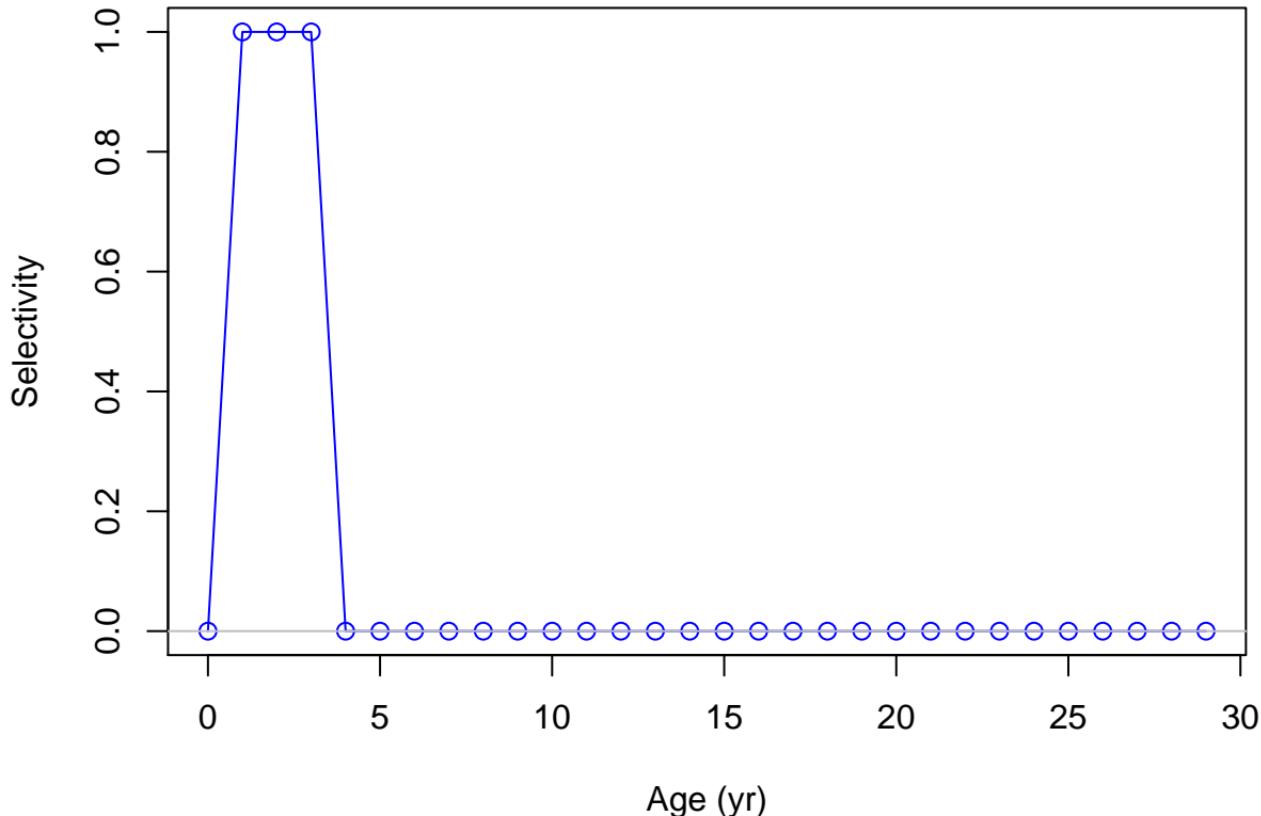
Male ending year selectivity for F25–OBJ_S_disc



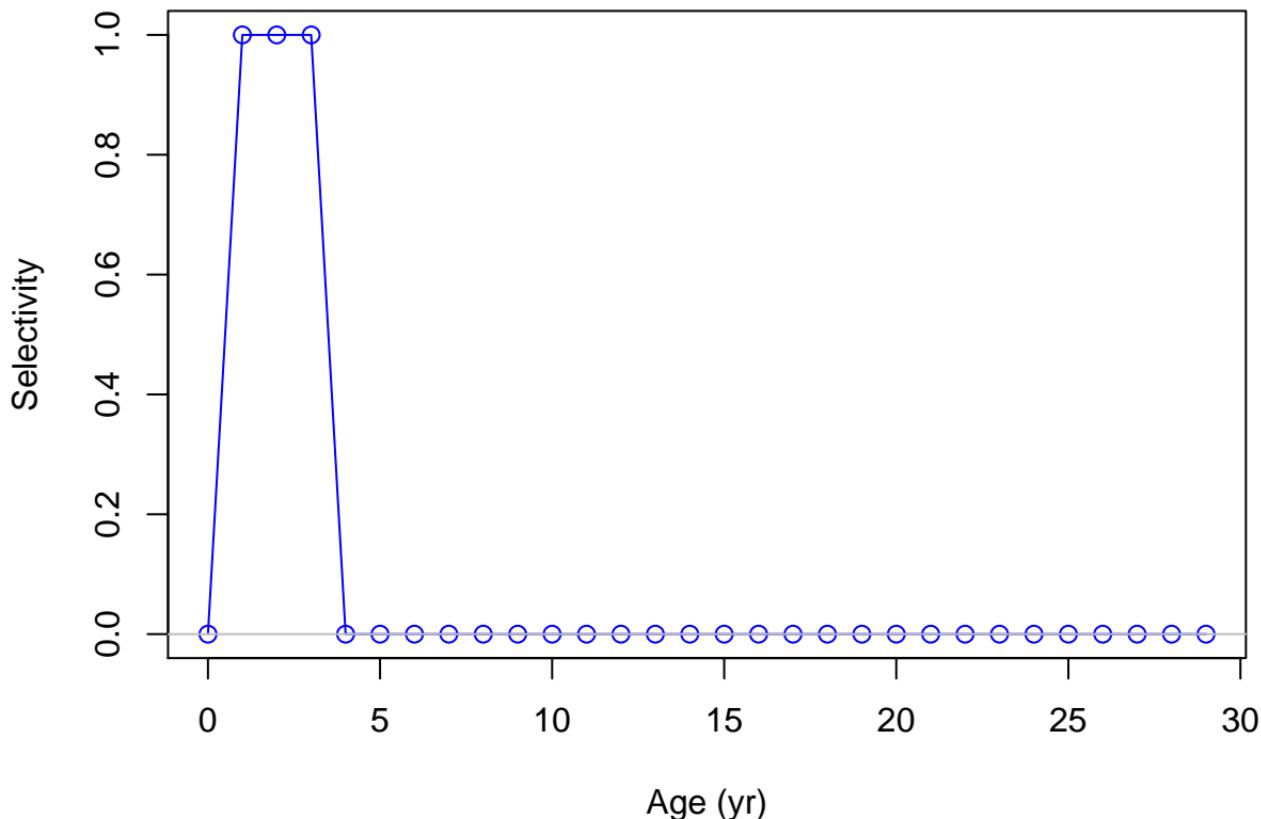
Female ending year selectivity for F26-OBJ_C_disc



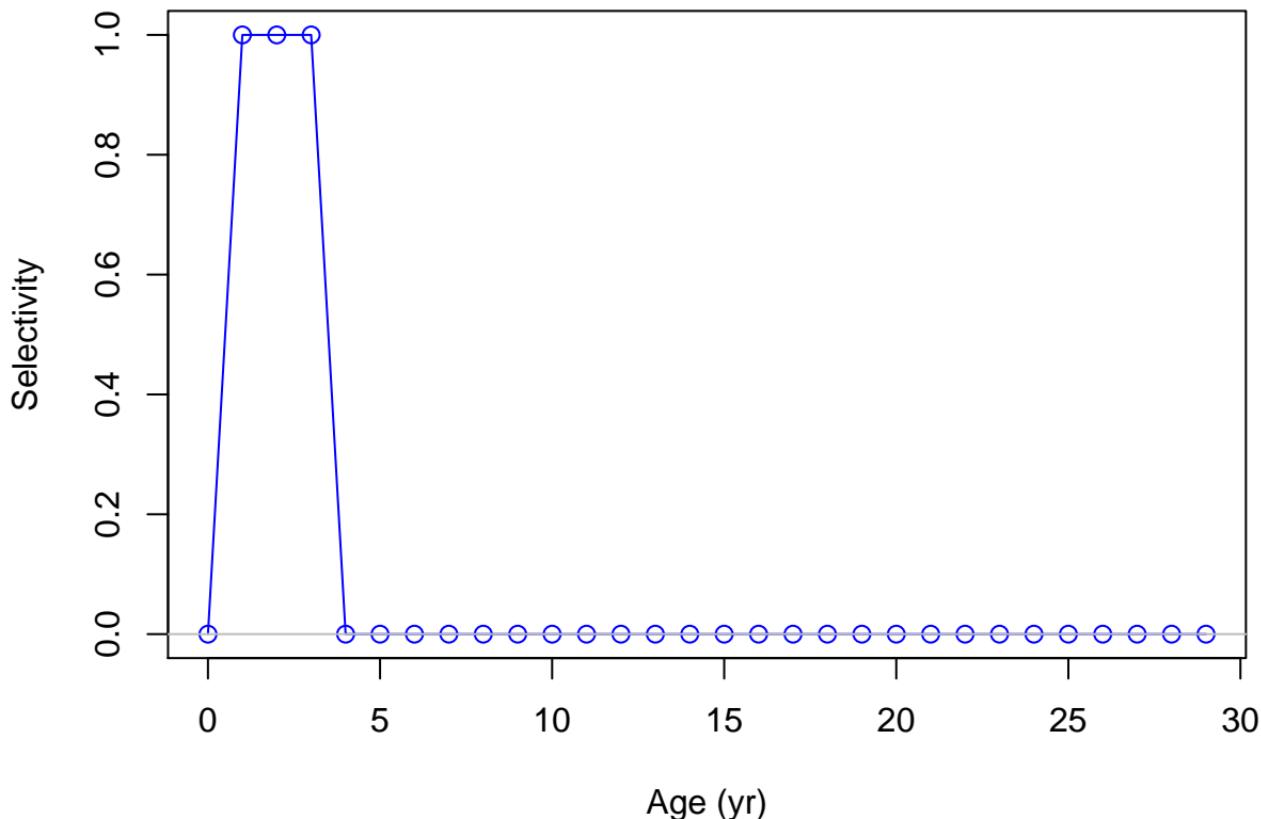
Male ending year selectivity for F26–OBJ_C_disc



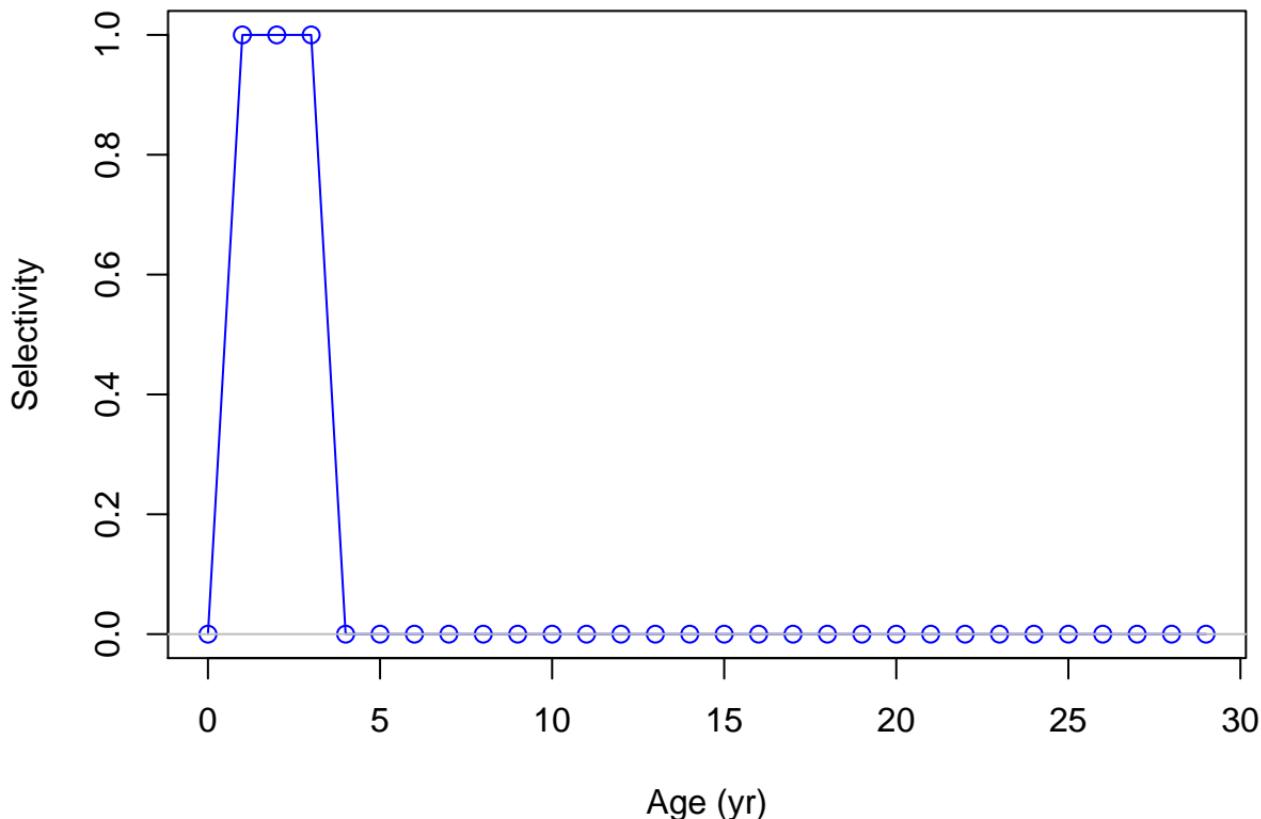
Female ending year selectivity for F27–OBJ_I_disc



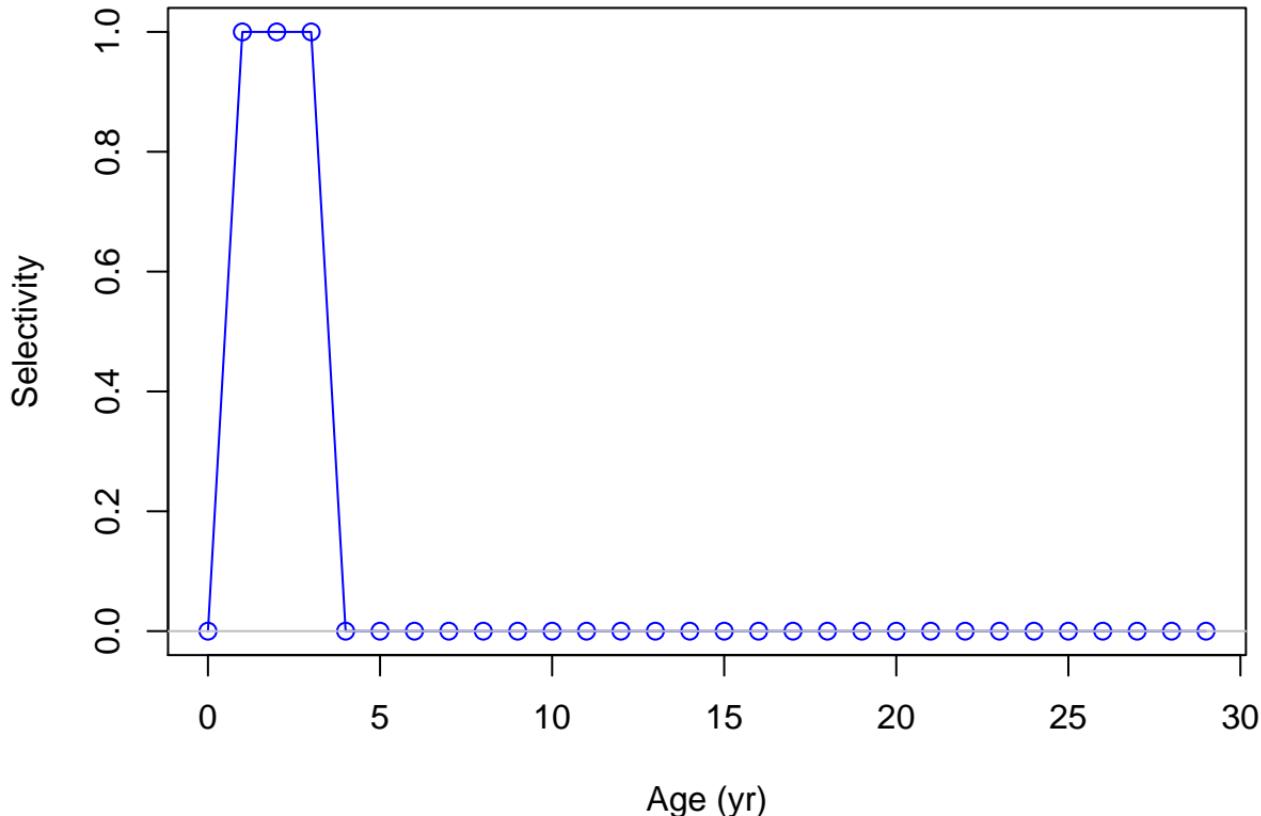
Male ending year selectivity for F27-OBJ_I_disc



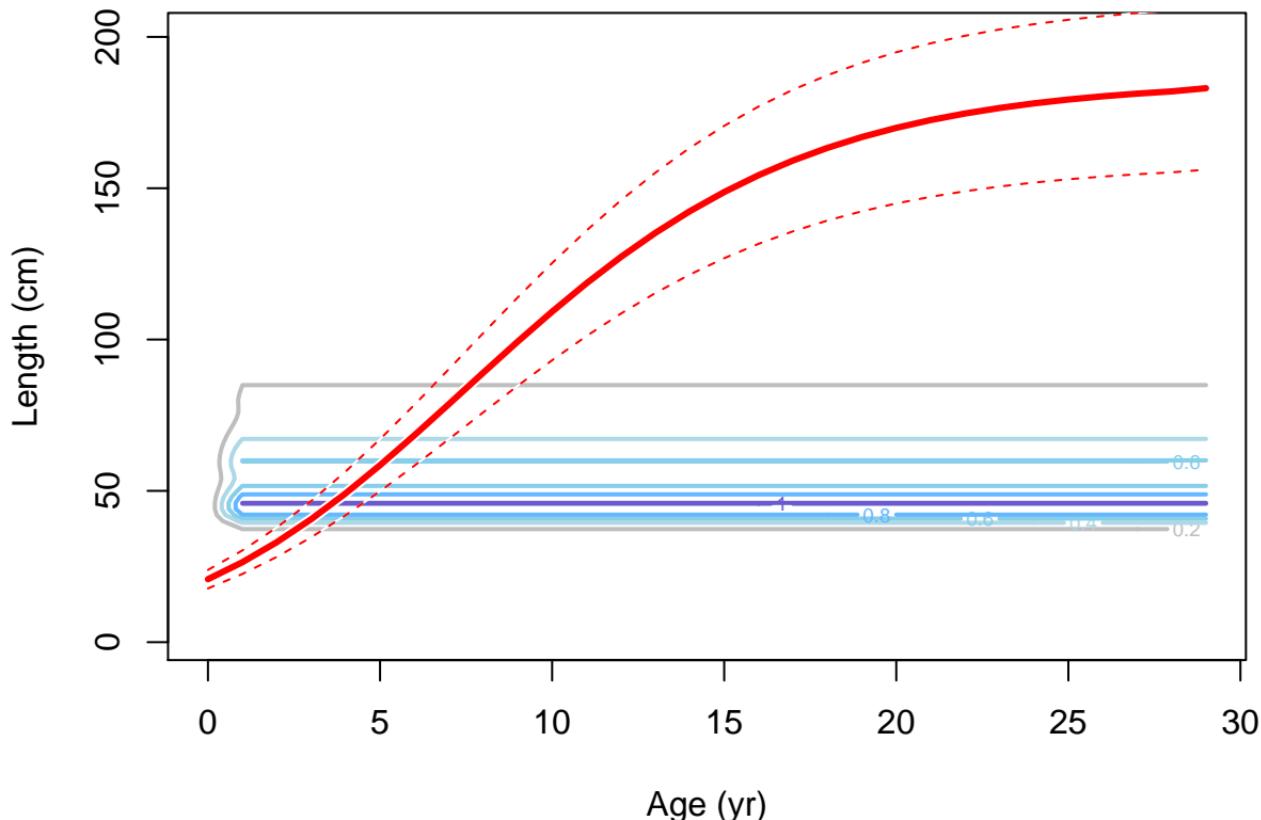
Female ending year selectivity for F28–OBJ_N_disc



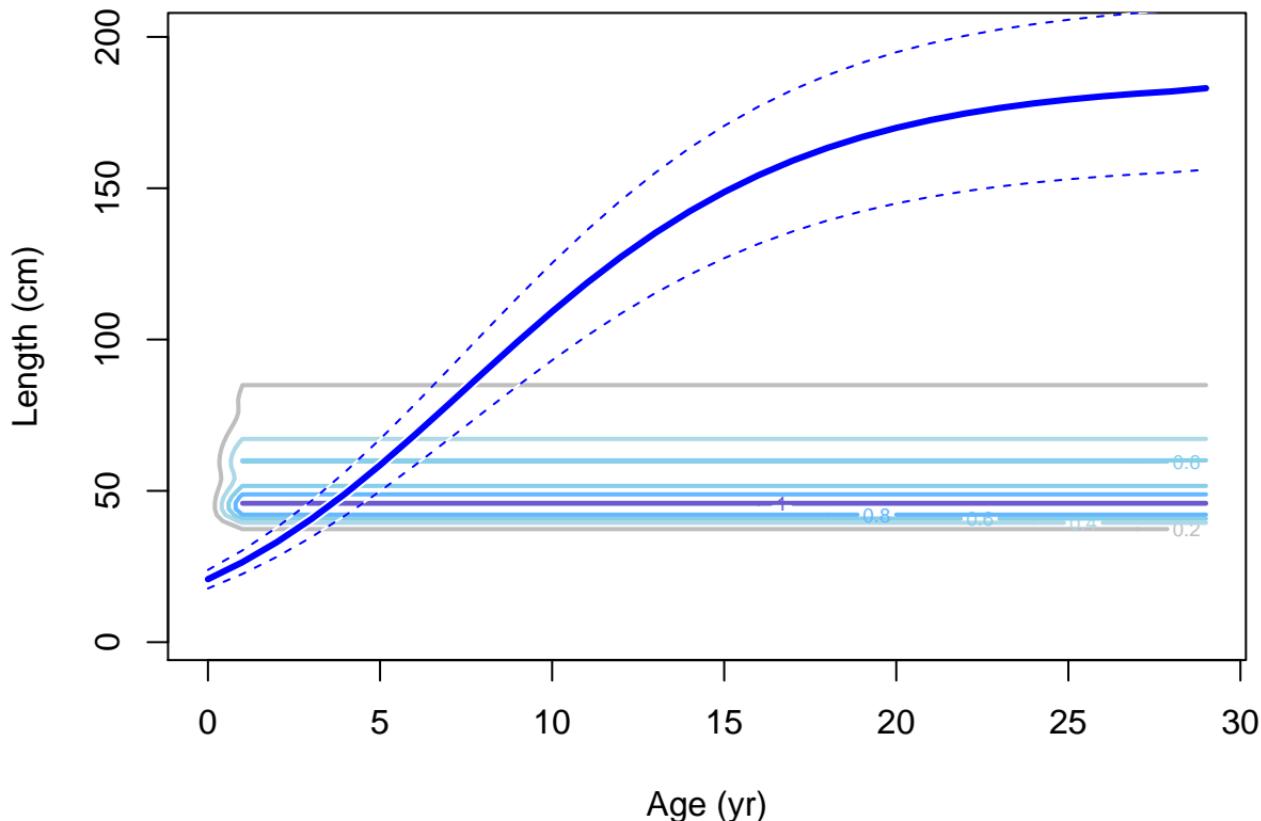
Male ending year selectivity for F28–OBJ_N_disc



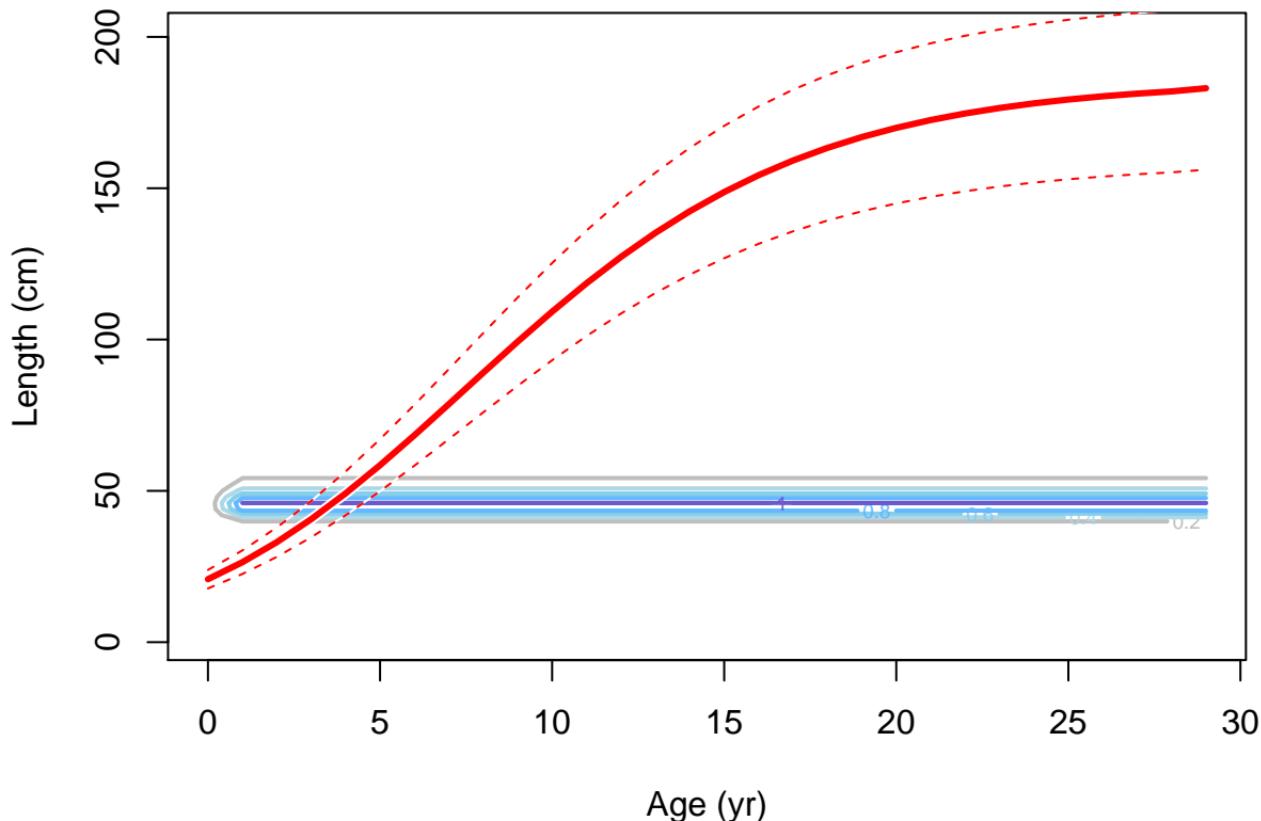
Female ending year selectivity and growth for F1–OBJ_N–Q14



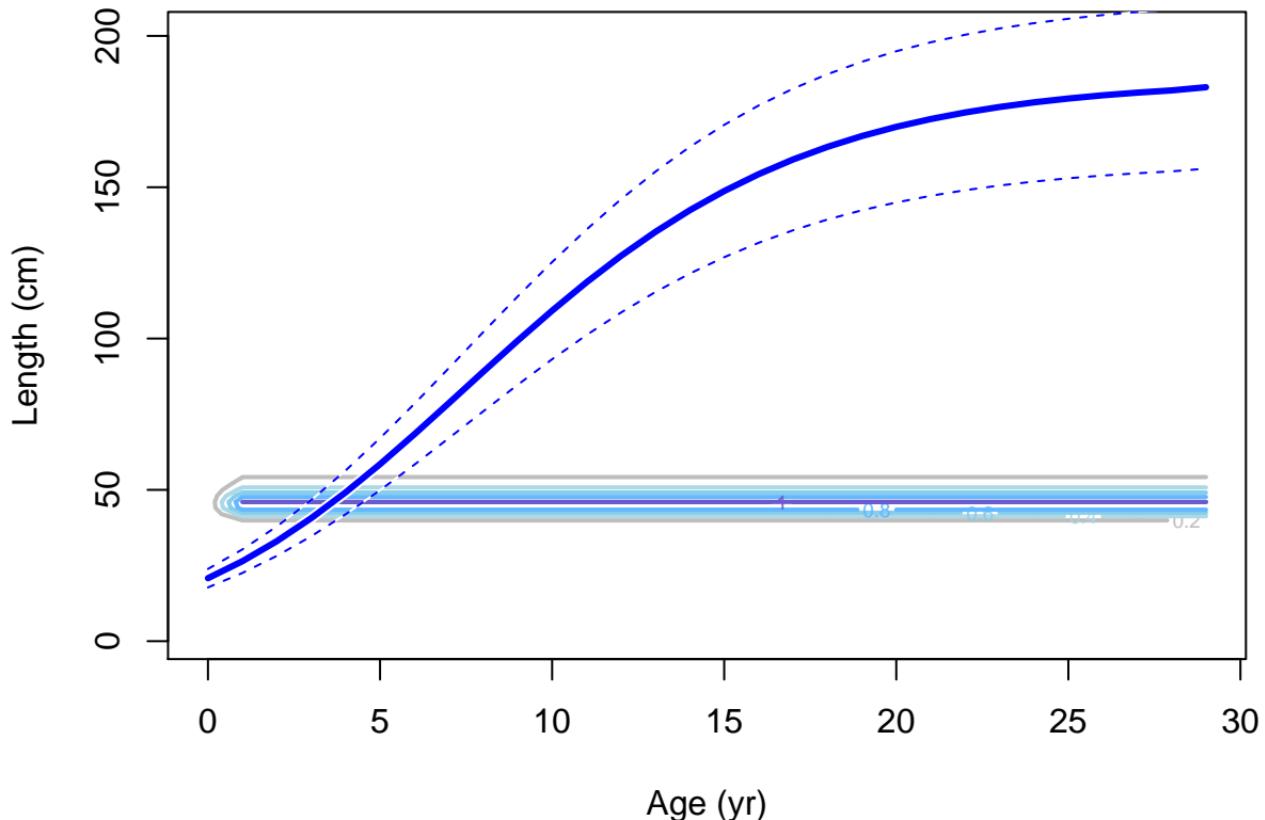
Male ending year selectivity and growth for F1–OBJ_N–Q14



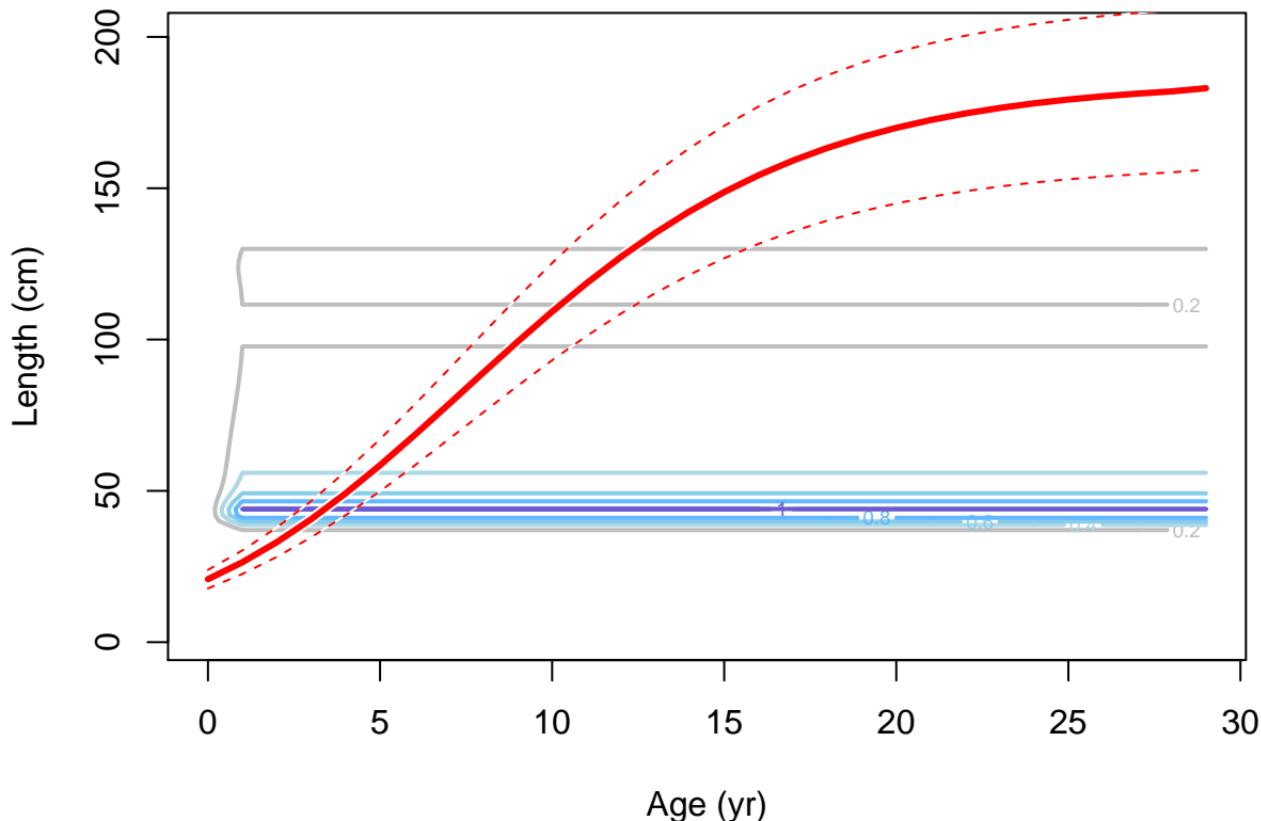
Female ending year selectivity and growth for F2–OBJ_Nc_Q14



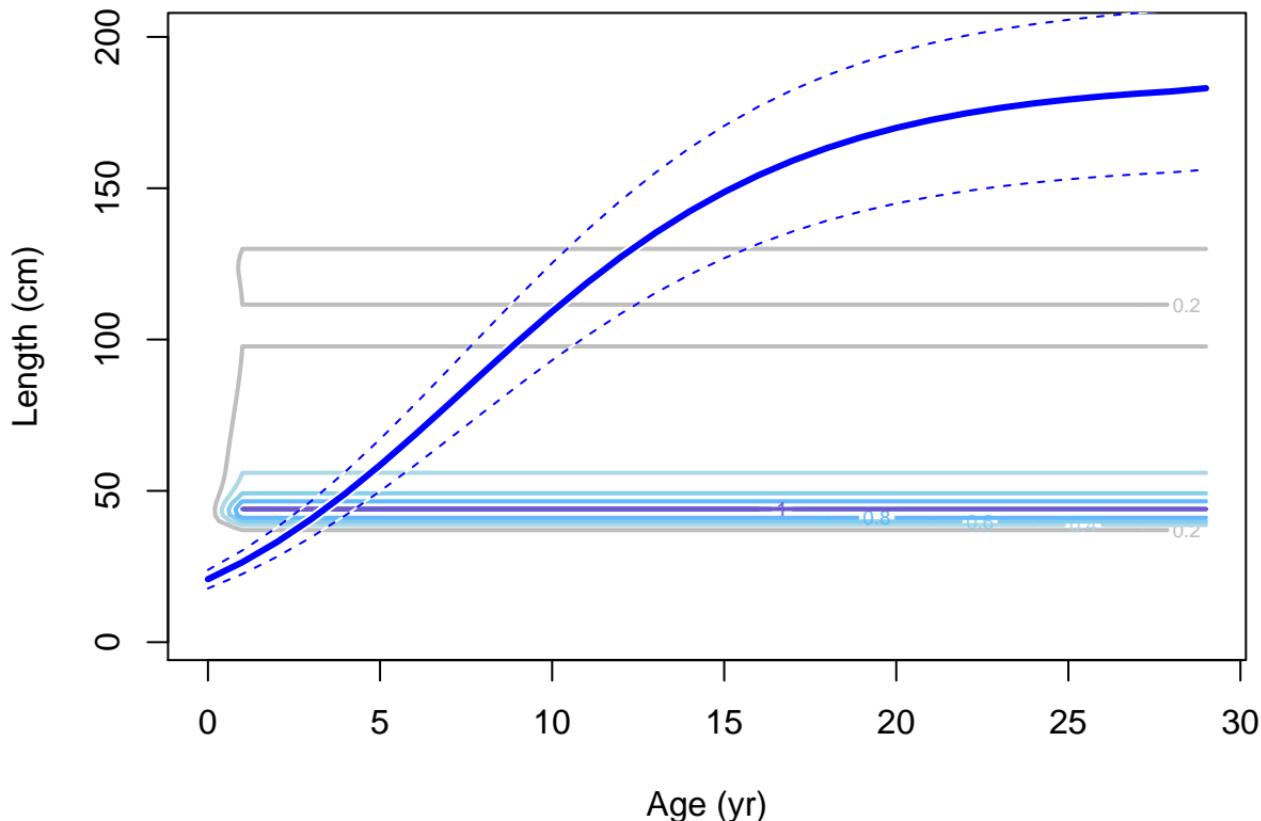
Male ending year selectivity and growth for F2-OBJ_Nc_Q14



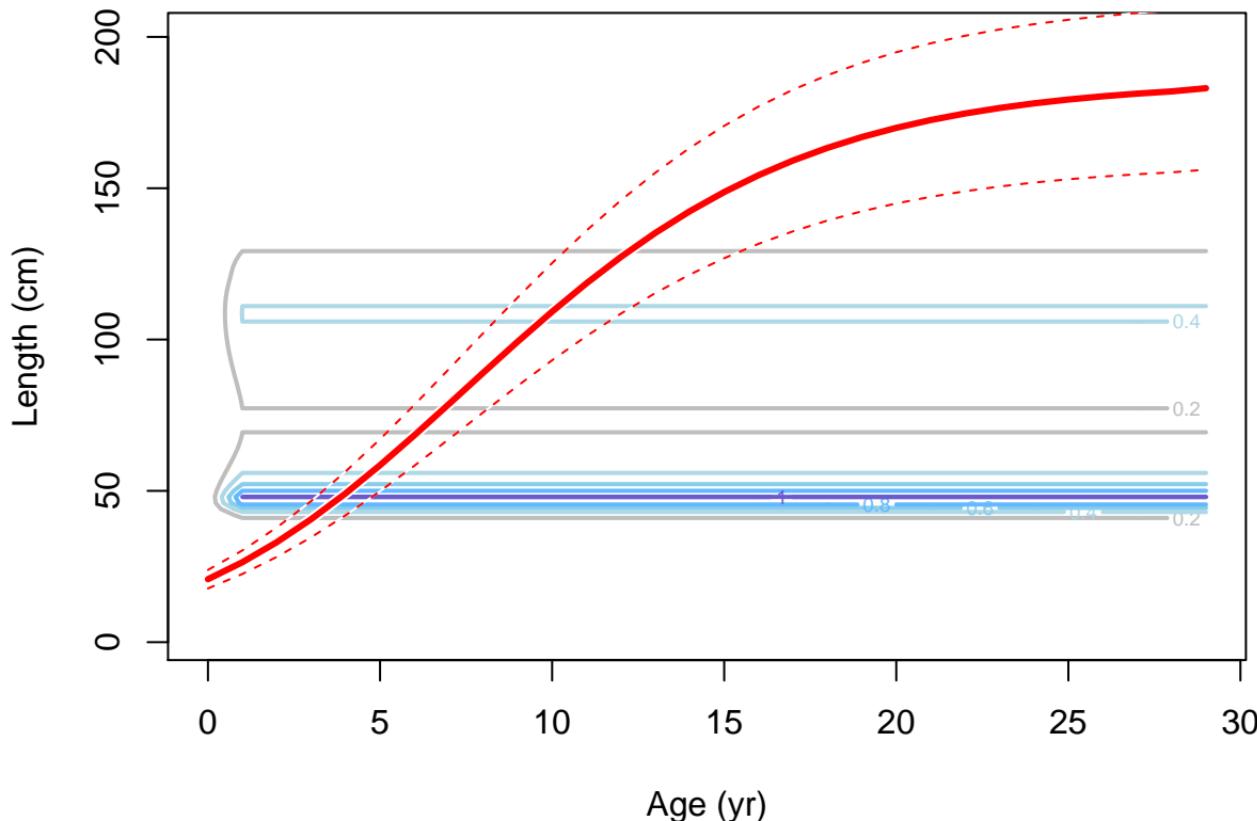
Female ending year selectivity and growth for F3–OBJ_C_Q14



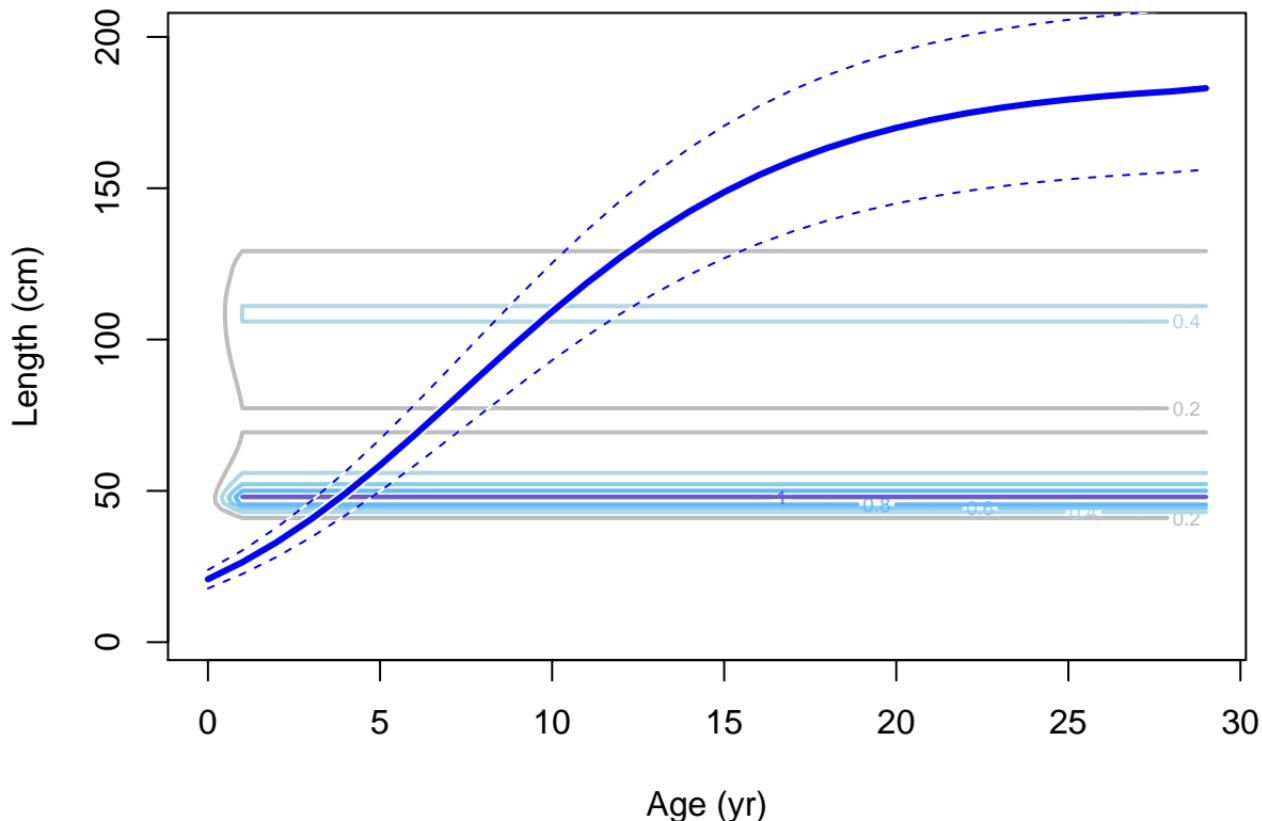
Male ending year selectivity and growth for F3–OBJ_C_Q14



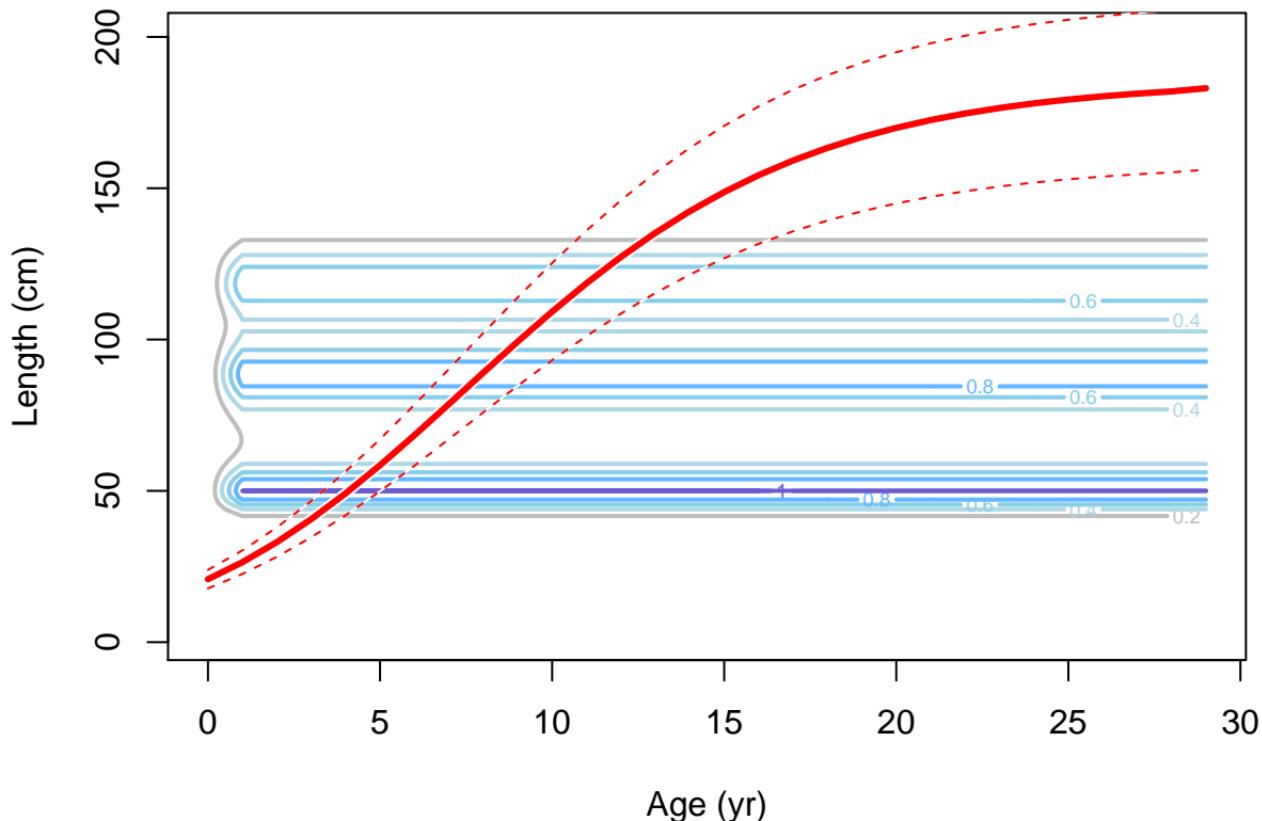
Female ending year selectivity and growth for F4-OBJ_Cc_Q14



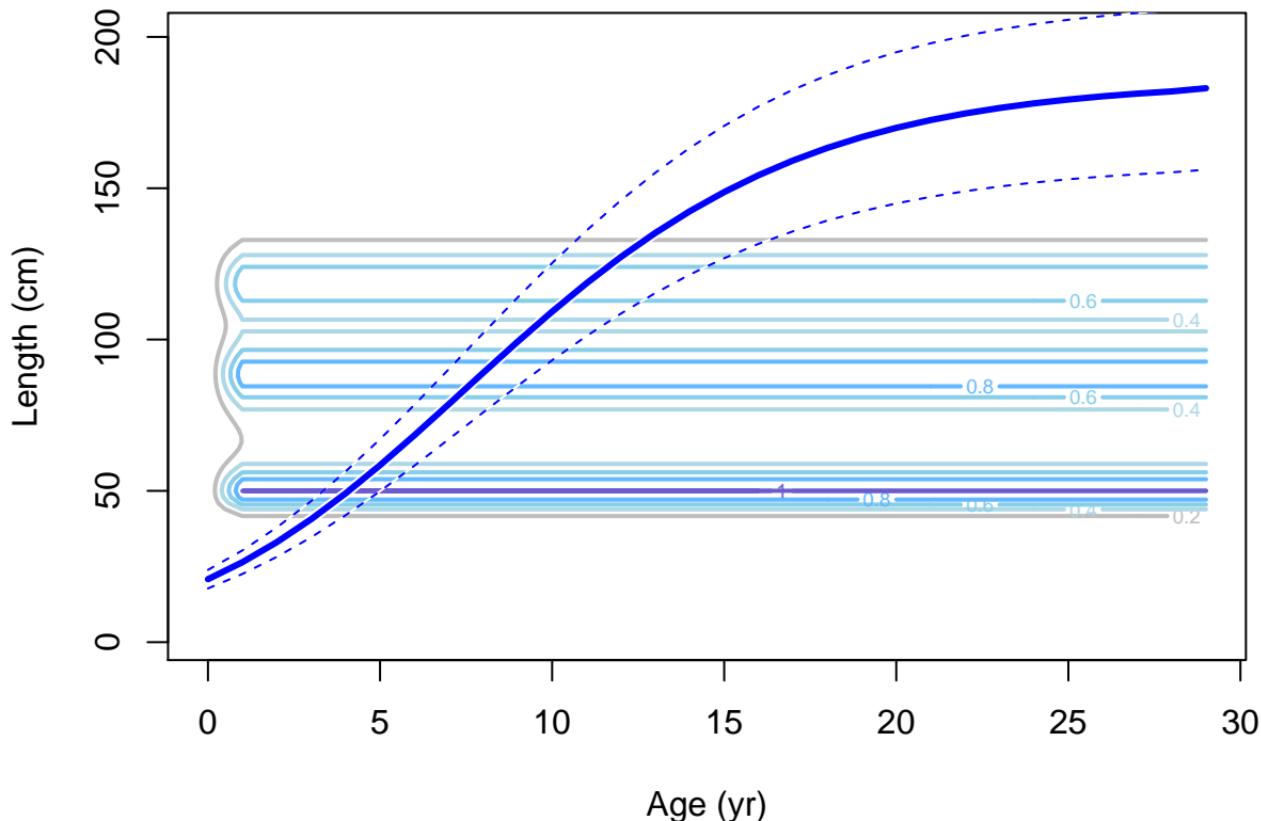
Male ending year selectivity and growth for F4-OBJ_Cc_Q14



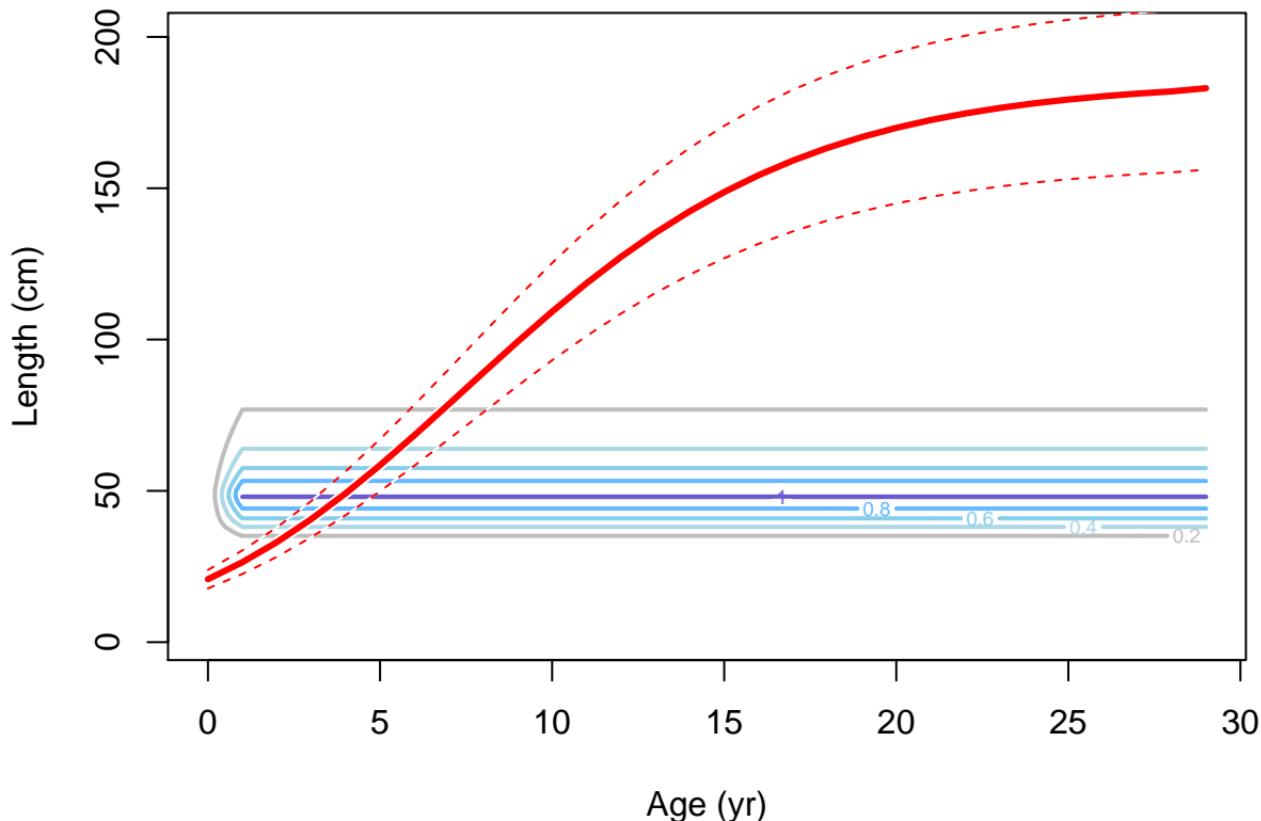
Female ending year selectivity and growth for F5-OBJ_S_Q14



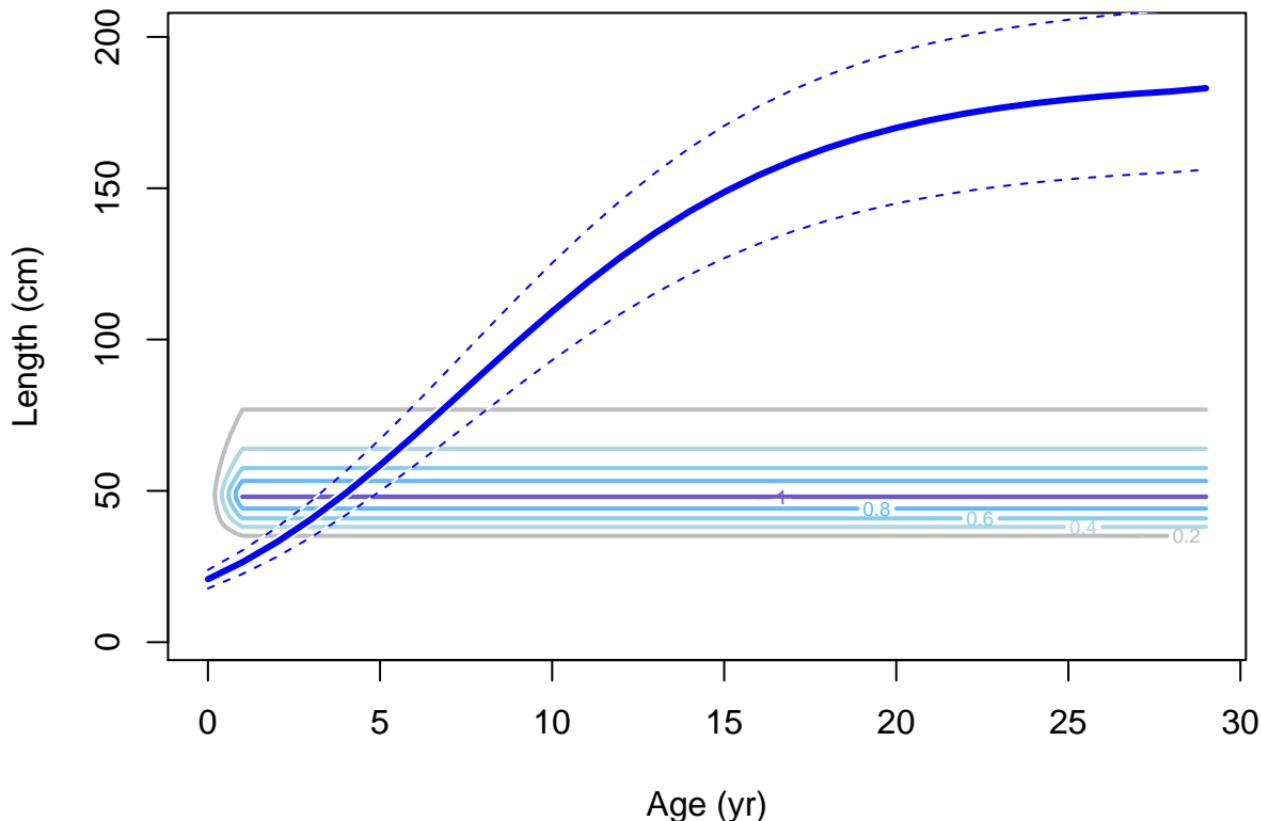
Male ending year selectivity and growth for F5–OBJ_S_Q14



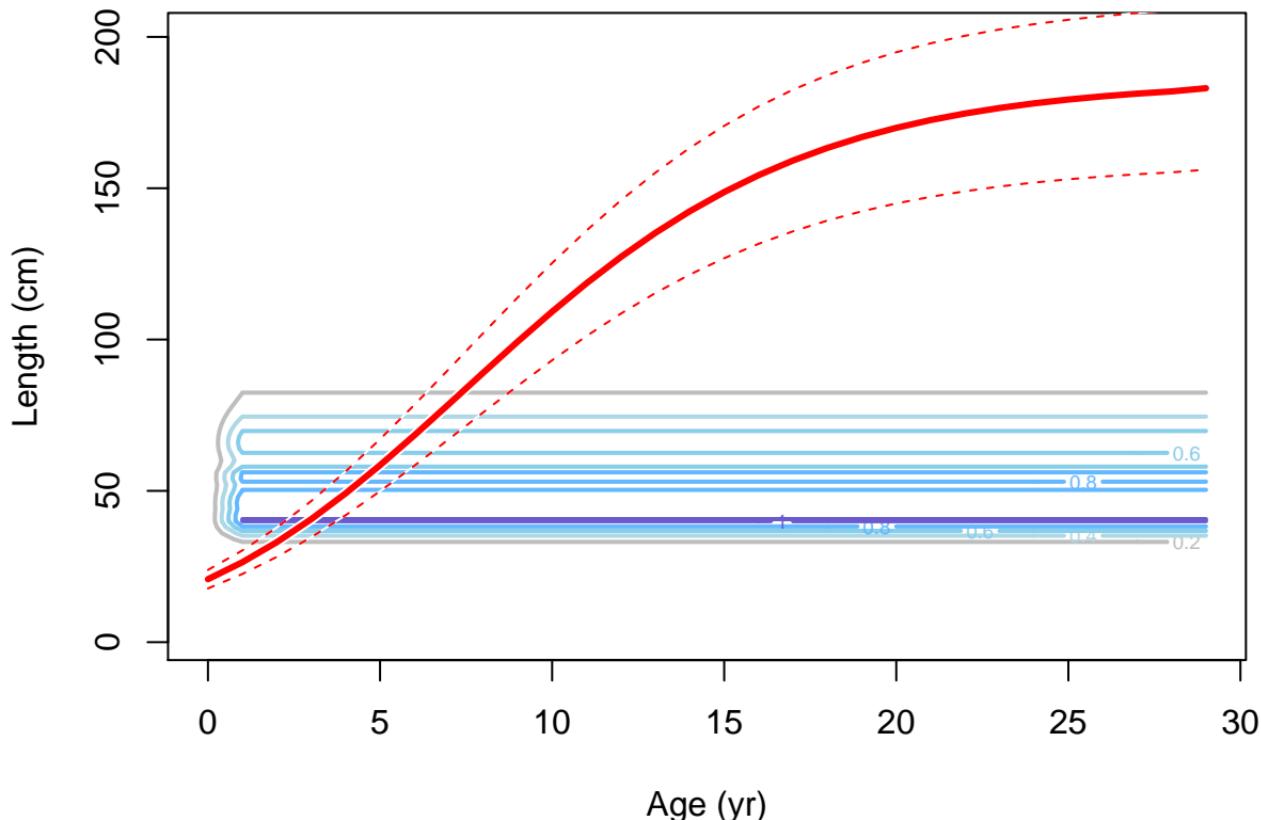
Female ending year selectivity and growth for F6-OBJ_N_Q23



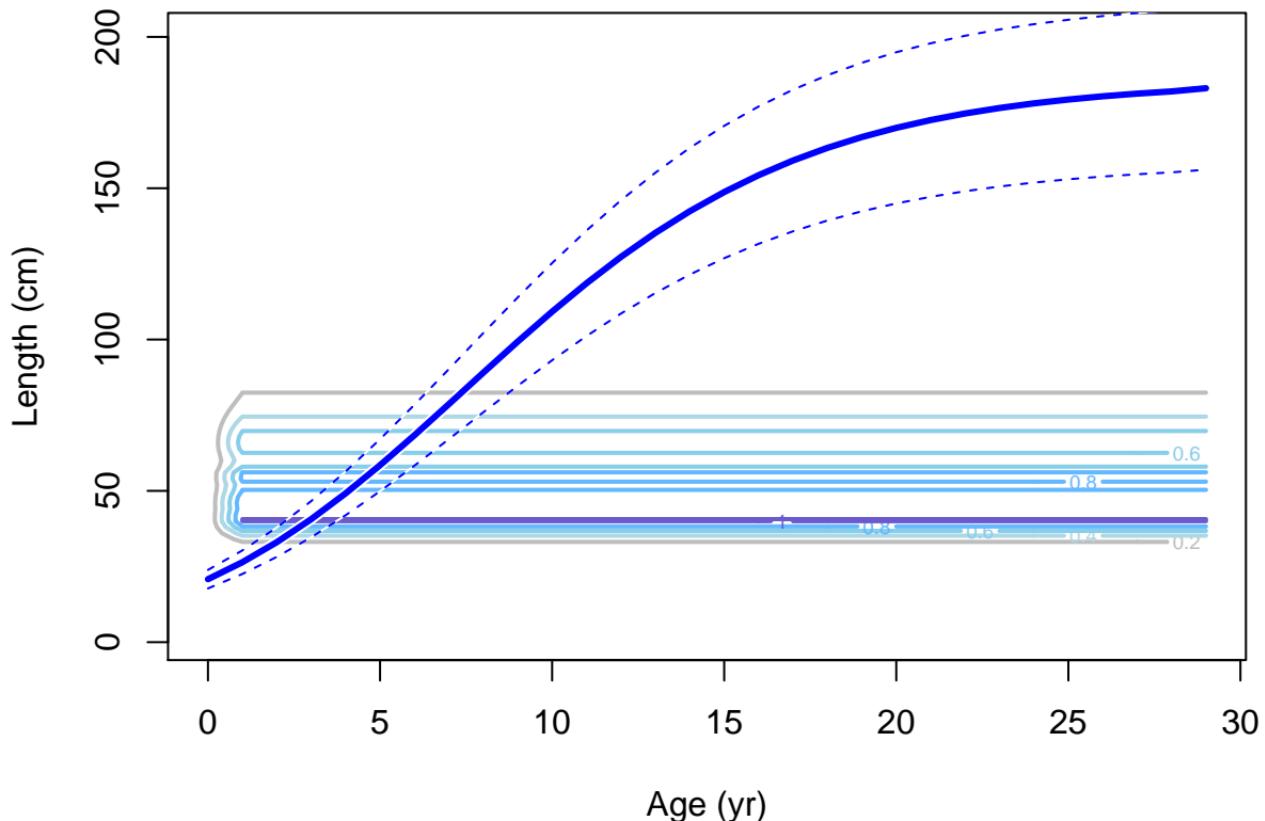
Male ending year selectivity and growth for F6-OBJ_N_Q23



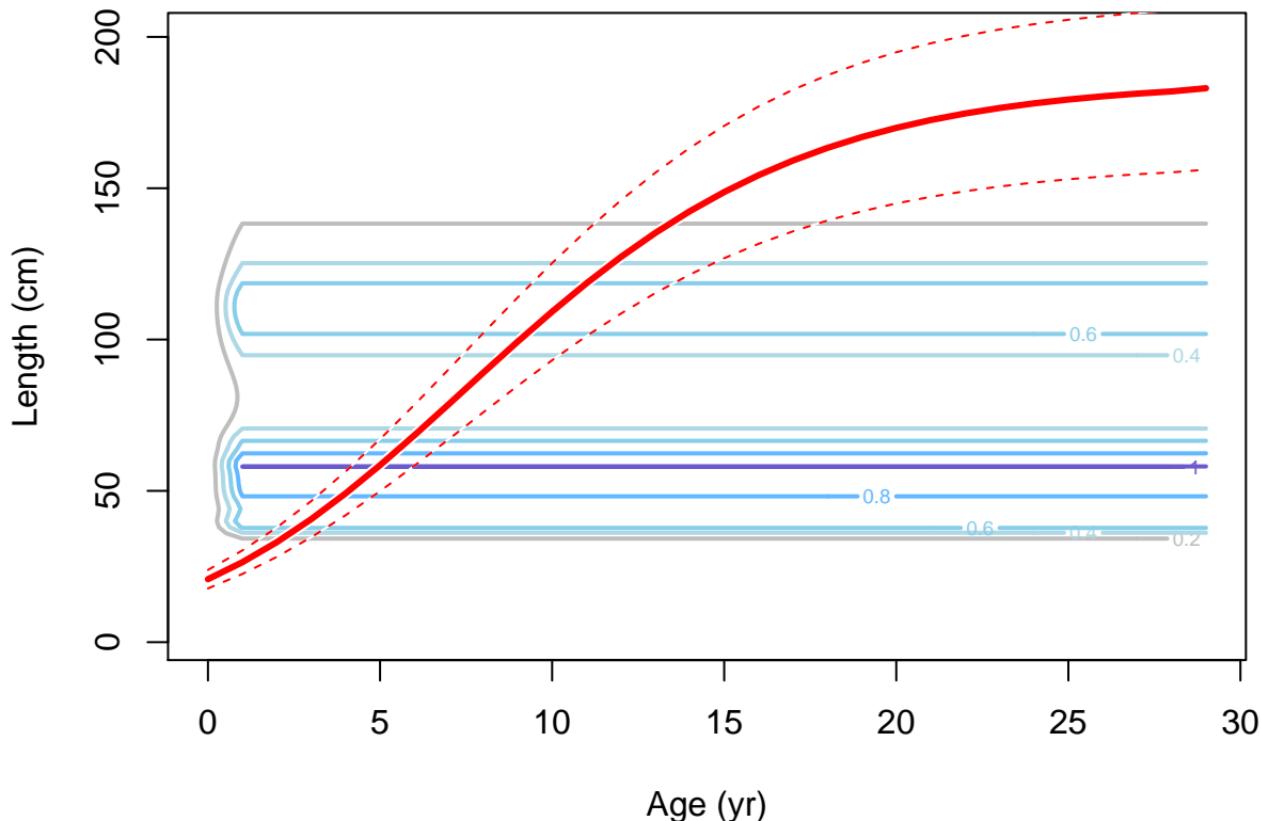
Female ending year selectivity and growth for F7–OBJ_Nc_Q23



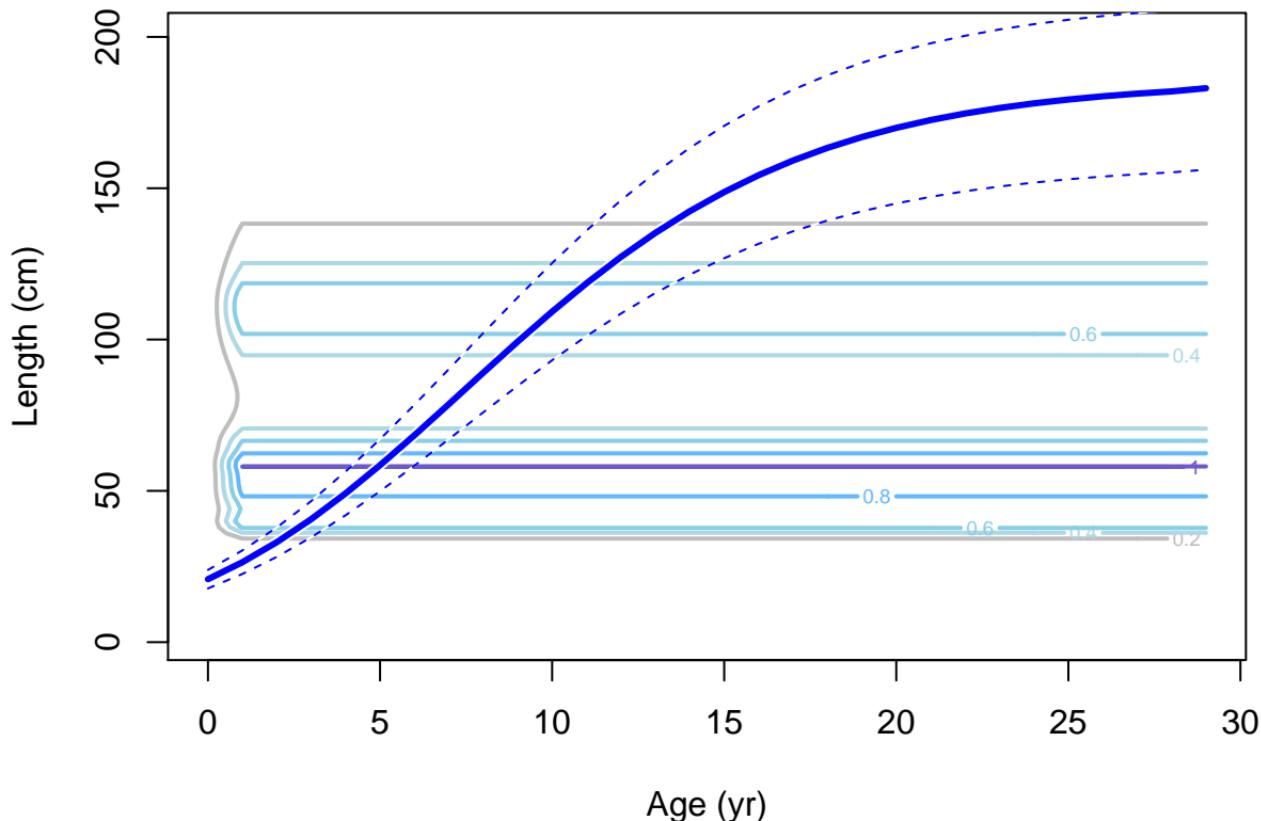
Male ending year selectivity and growth for F7-OBJ_Nc_Q23



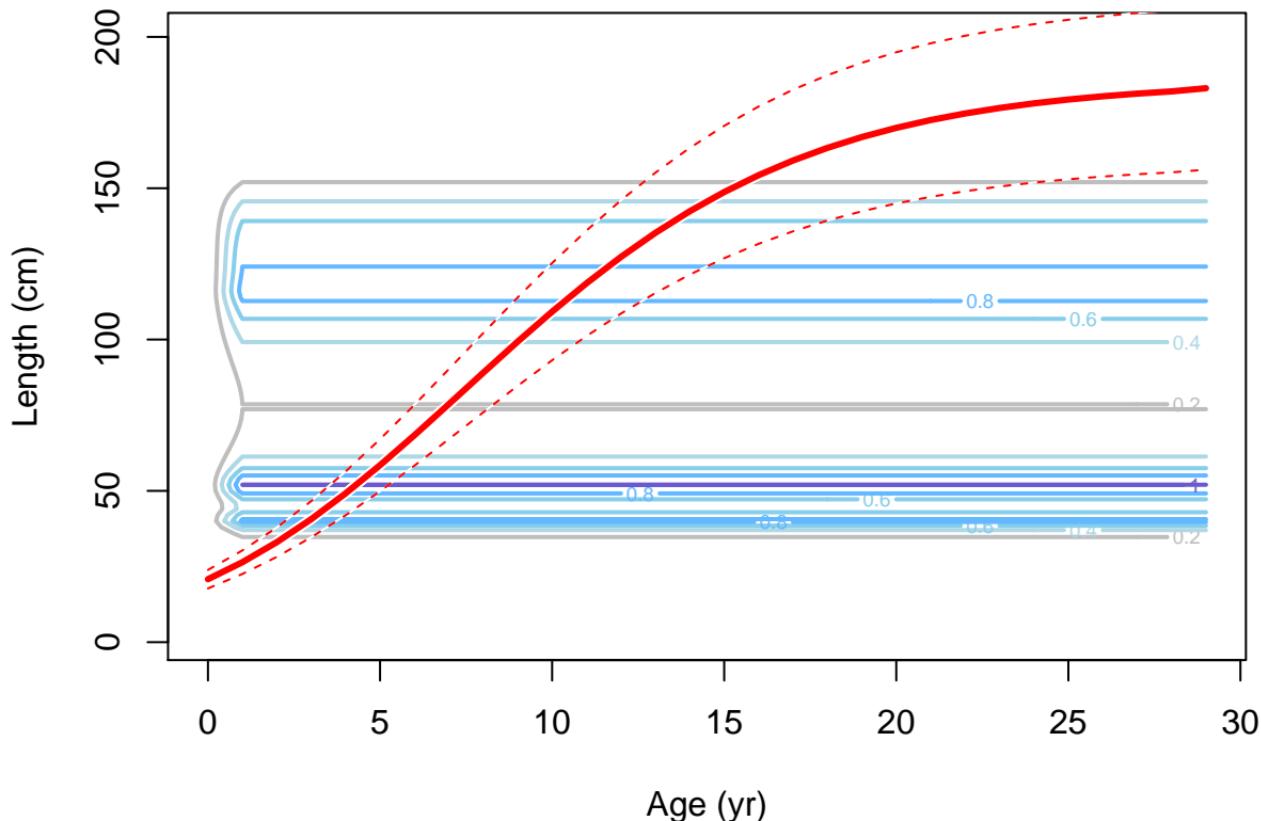
Female ending year selectivity and growth for F8-OBJ_C_Q23



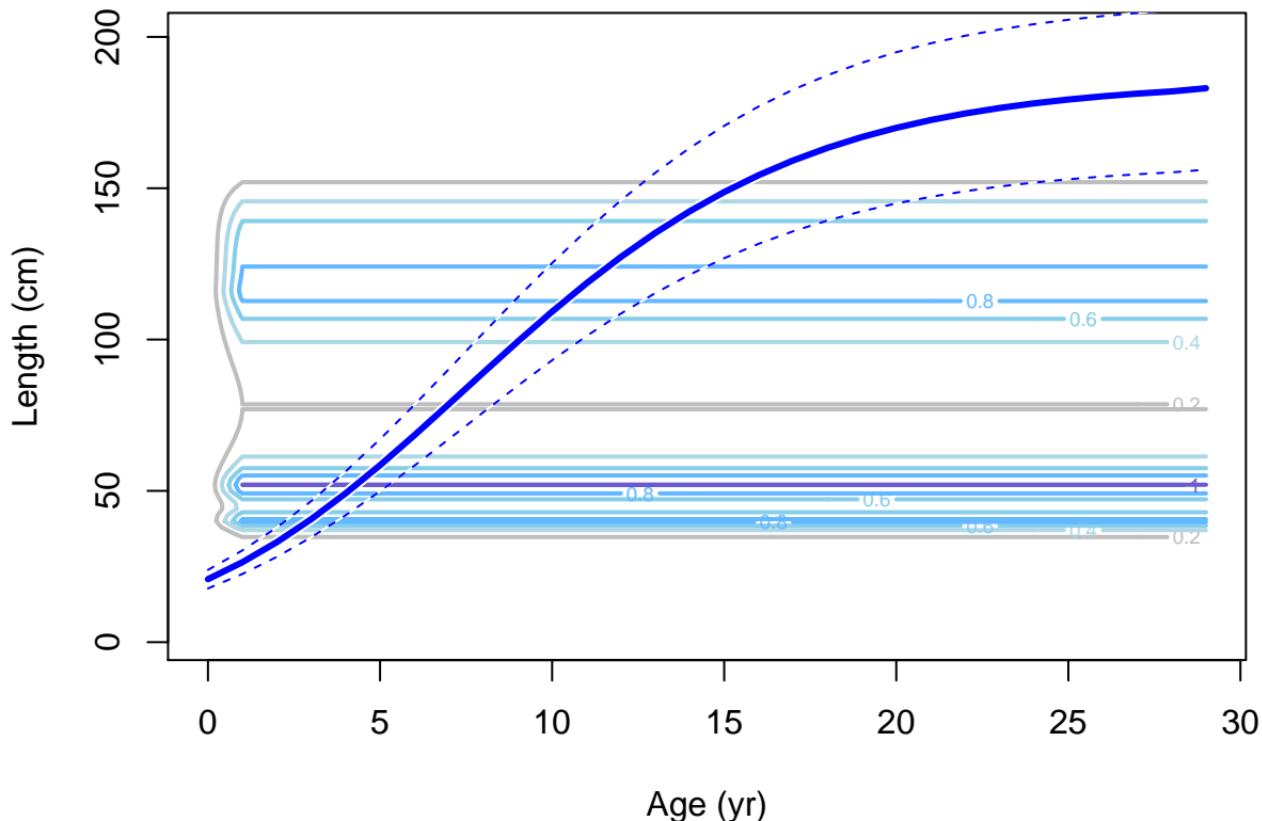
Male ending year selectivity and growth for F8-OBJ_C_Q23



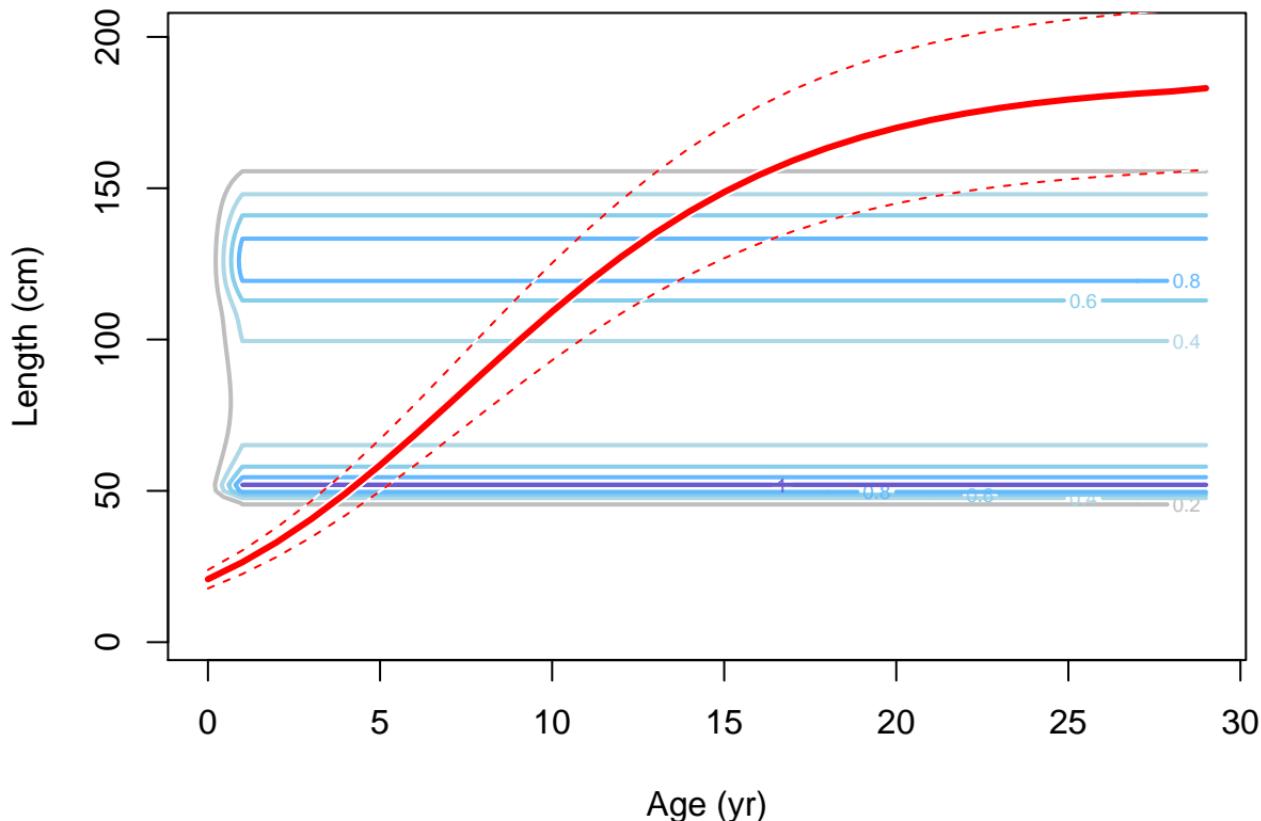
Female ending year selectivity and growth for F9–OBJ_Cc_Q23



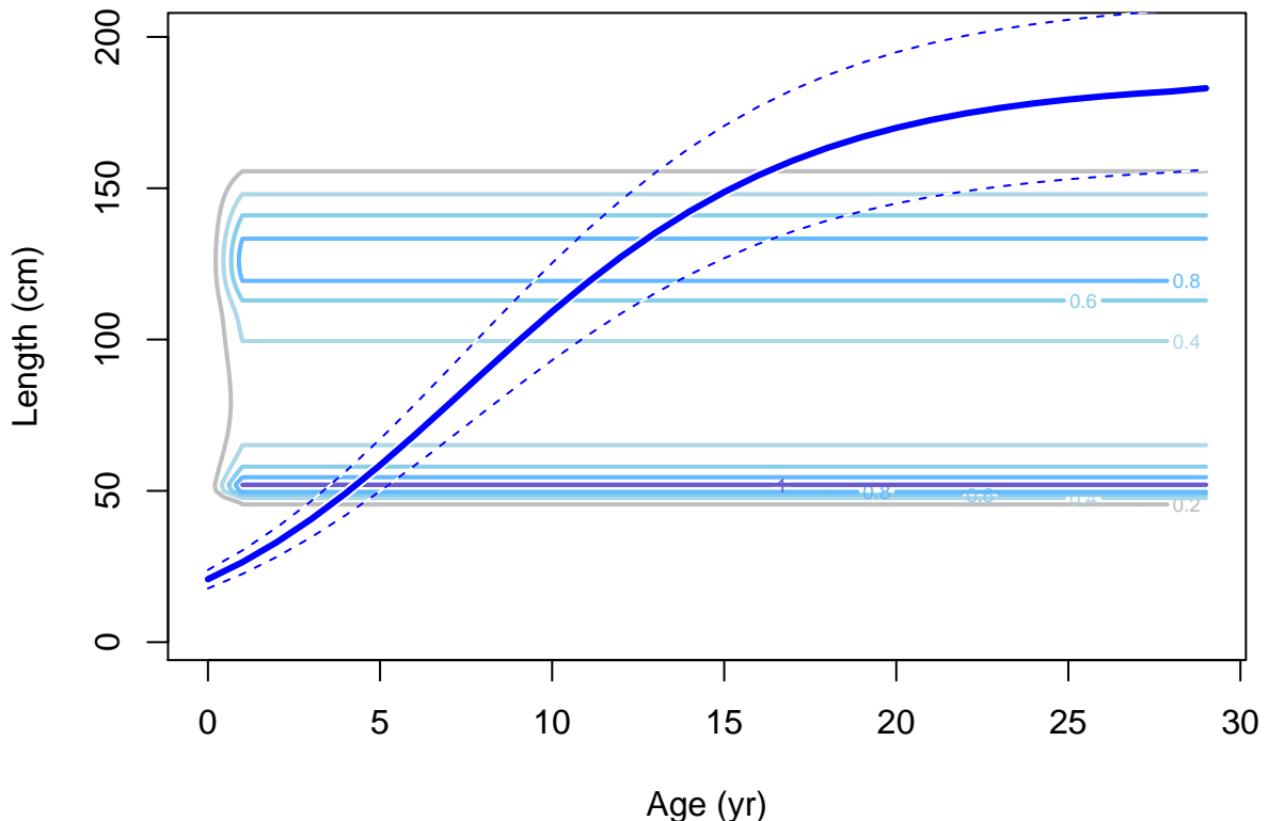
Male ending year selectivity and growth for F9–OBJ_Cc_Q23



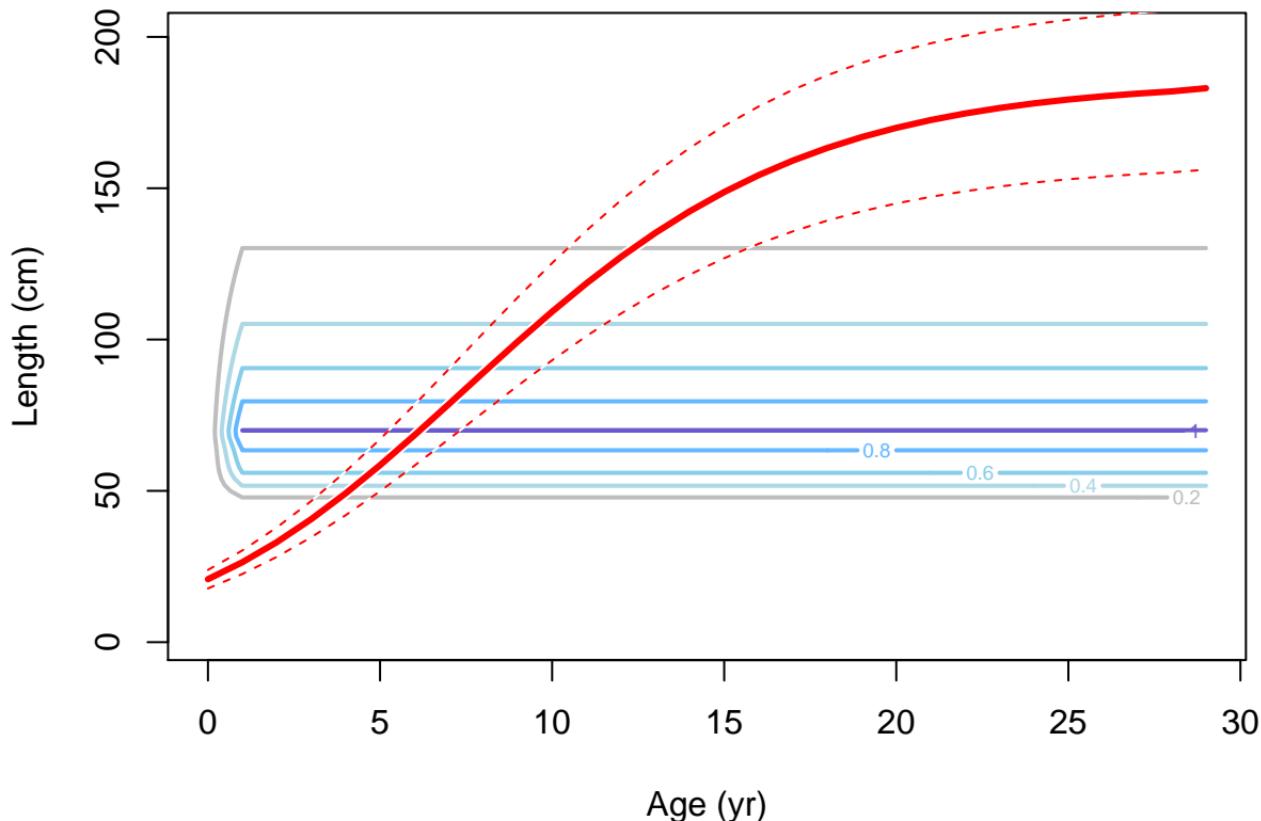
Female ending year selectivity and growth for F10-OBJ_S_Q23



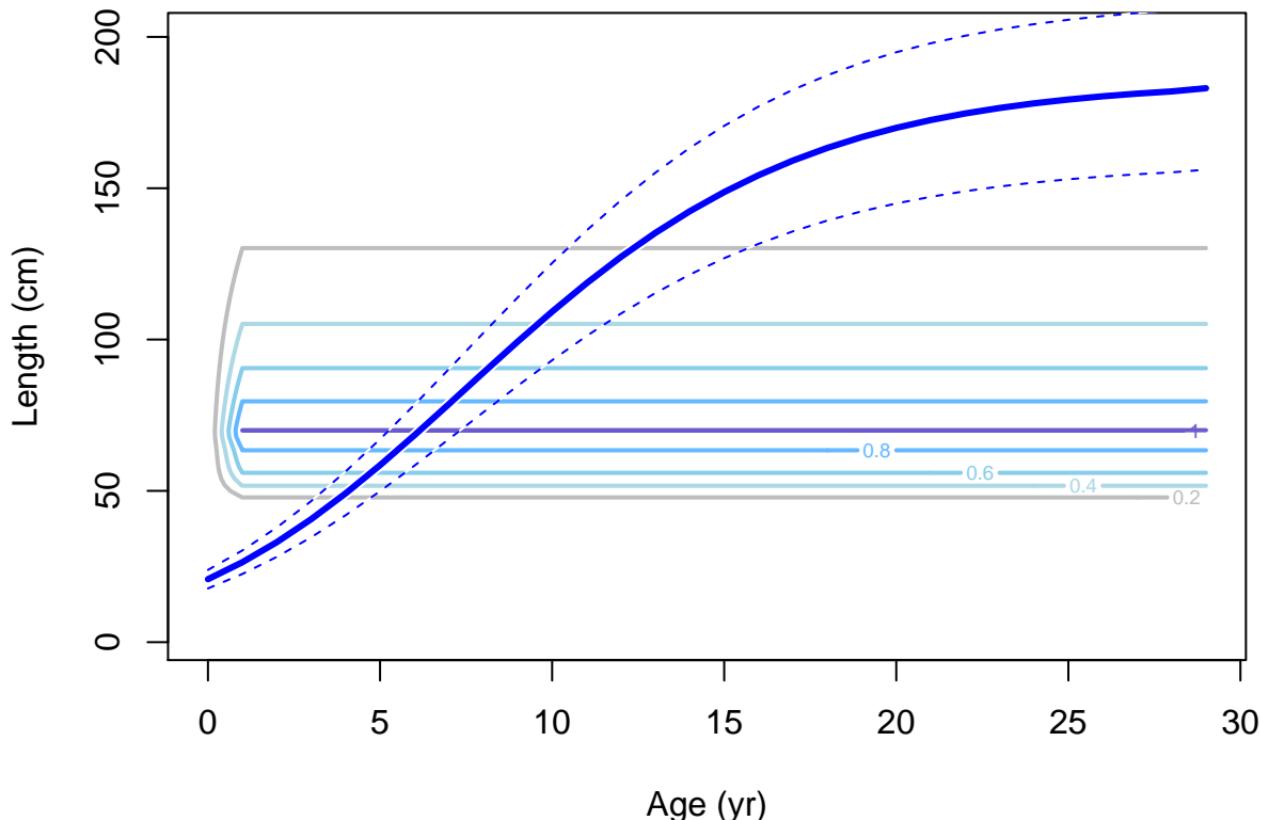
Male ending year selectivity and growth for F10-OBJ_S_Q23



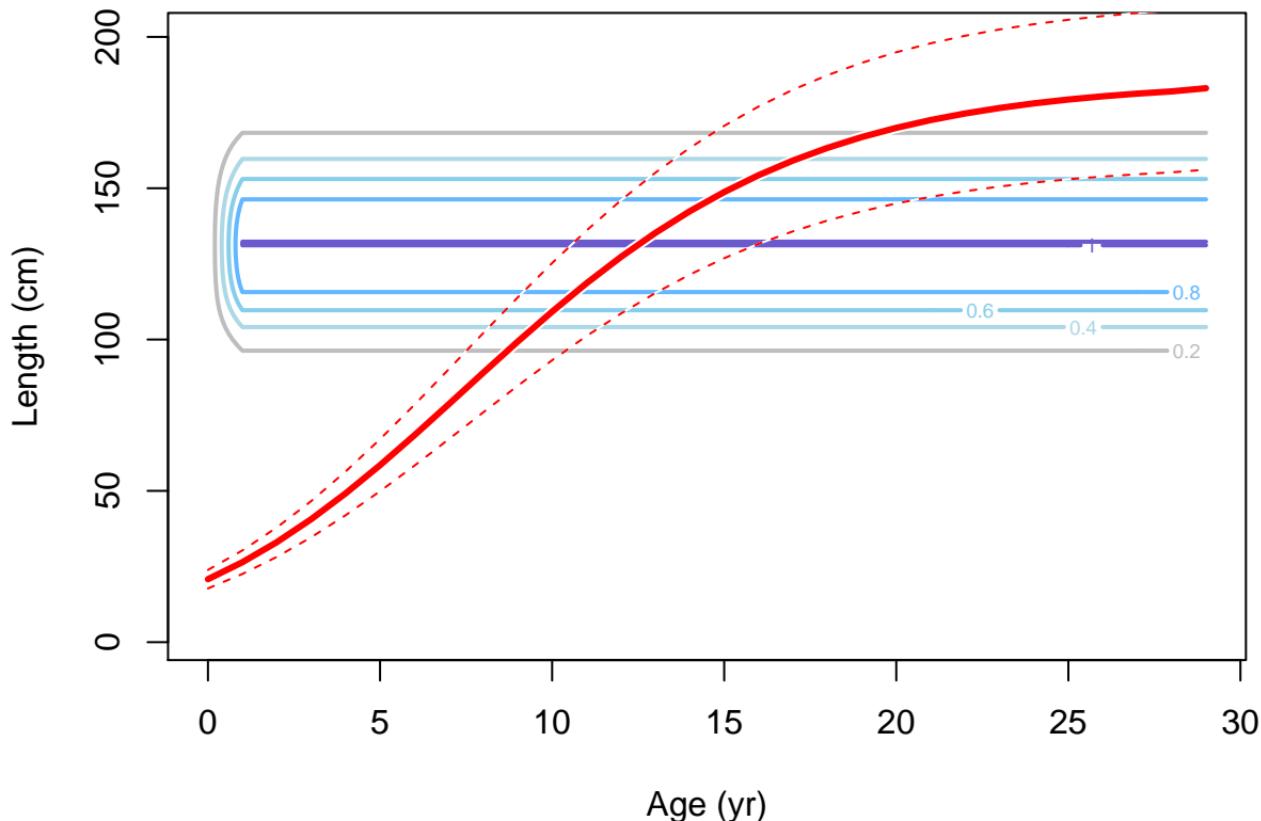
Female ending year selectivity and growth for F11–NOA_N



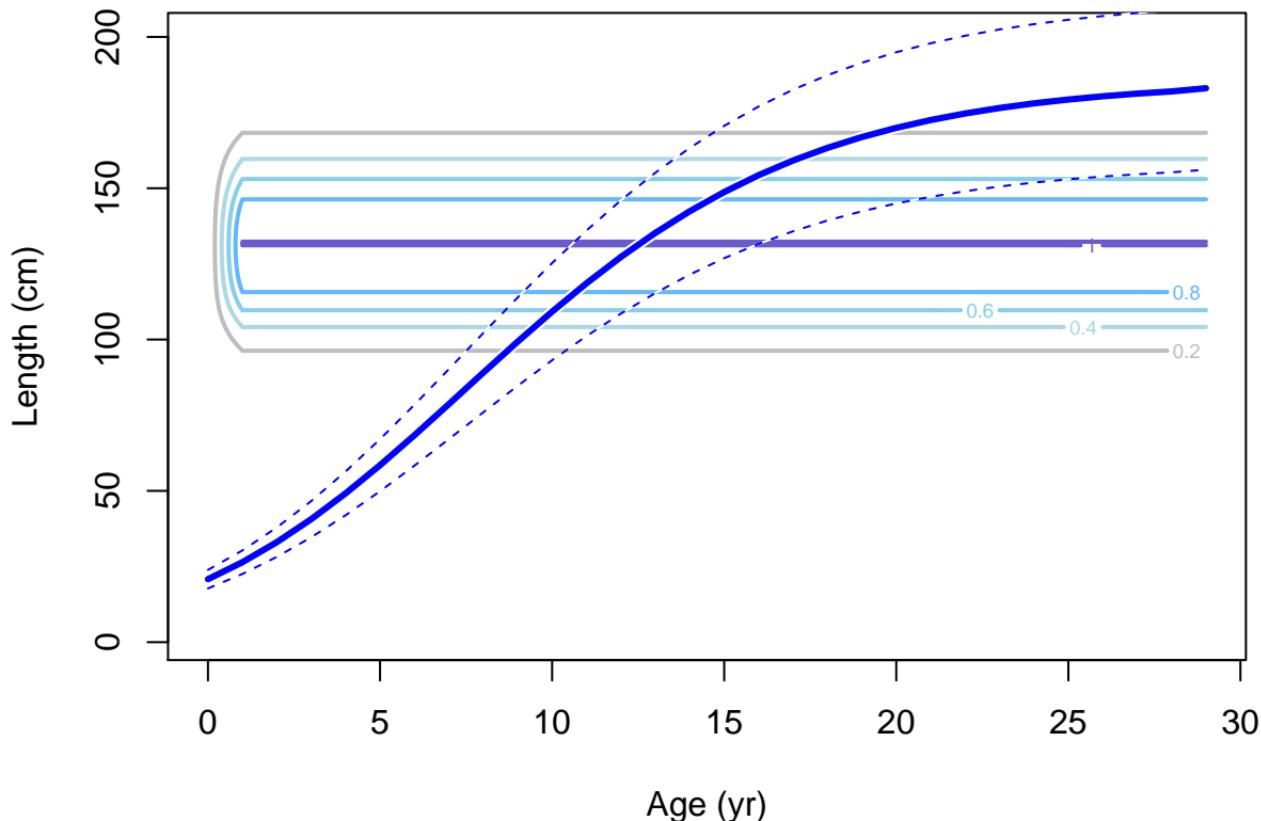
Male ending year selectivity and growth for F11-NOA_N



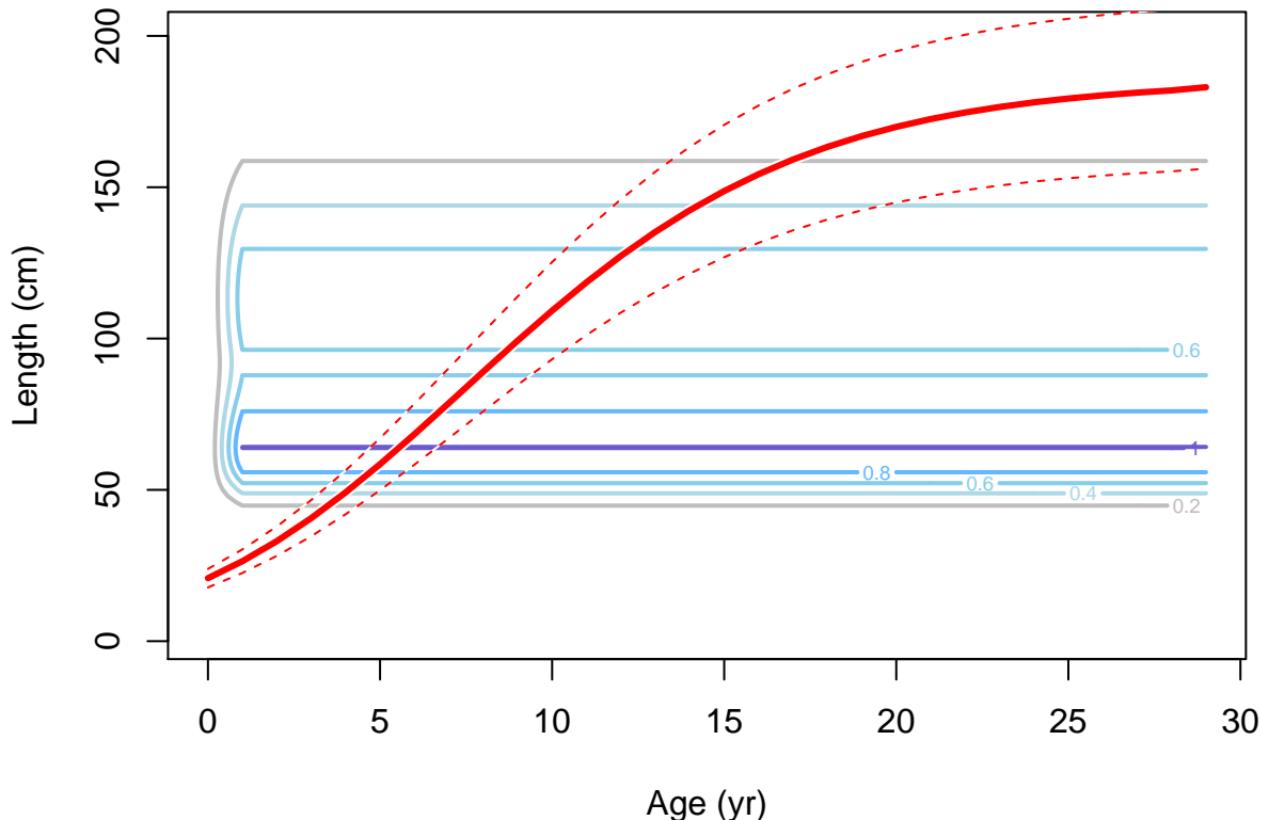
Female ending year selectivity and growth for F12–NOA_C



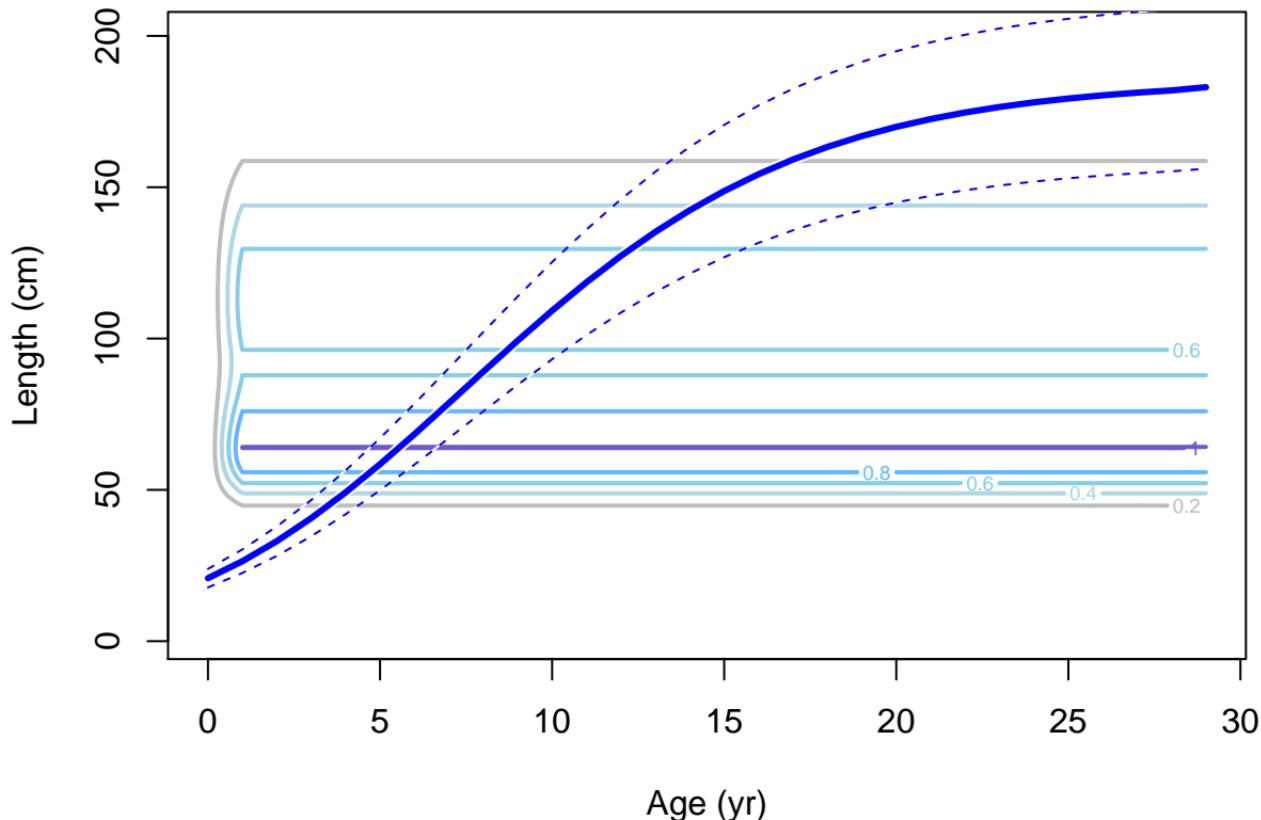
Male ending year selectivity and growth for F12-NOA_C



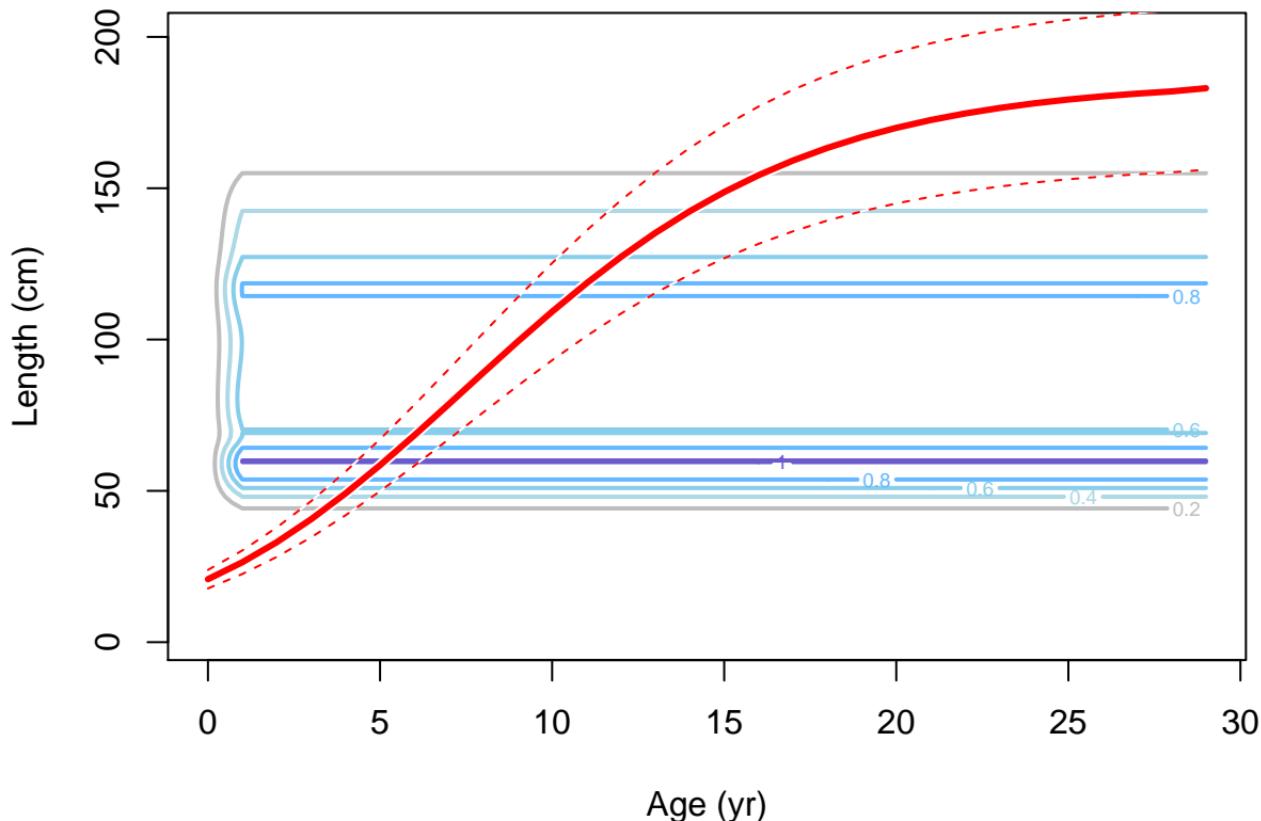
Female ending year selectivity and growth for F13–NOA_I



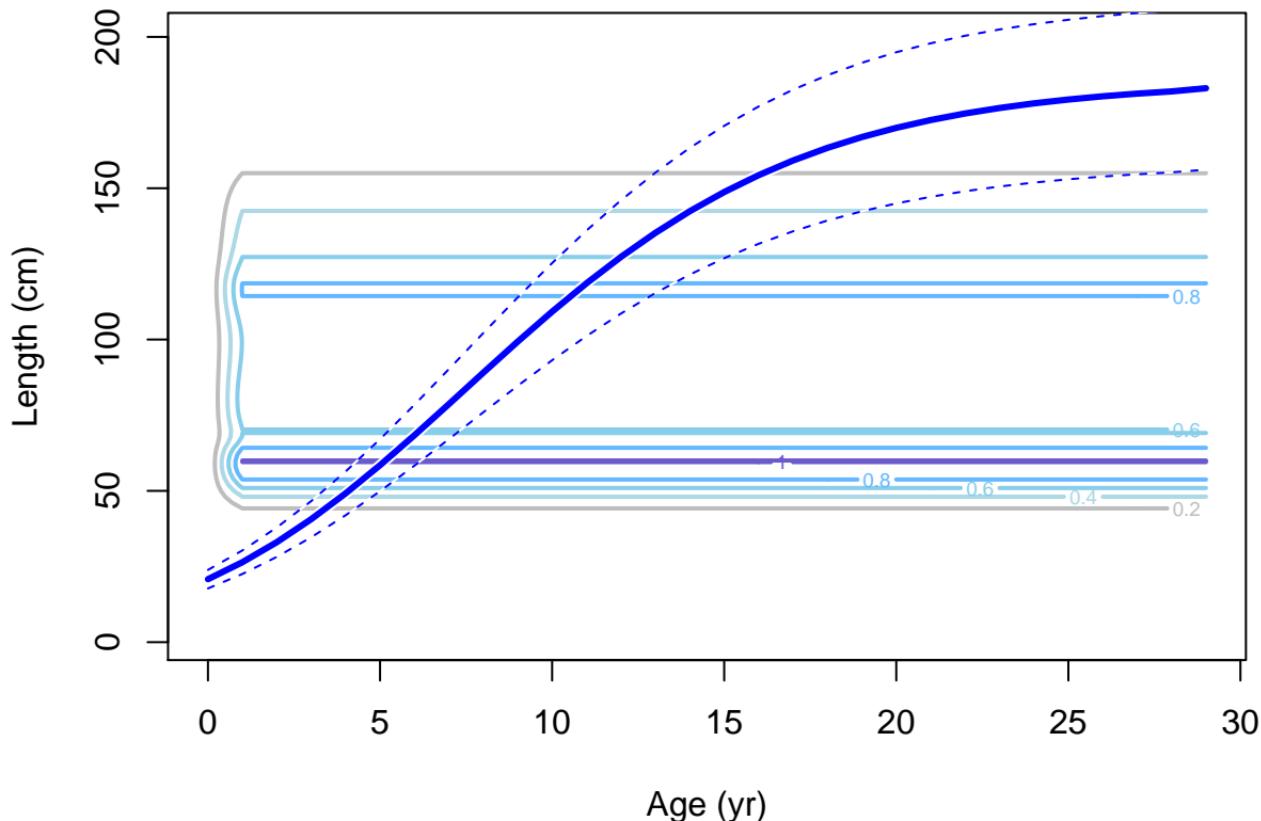
Male ending year selectivity and growth for F13–NOA_I



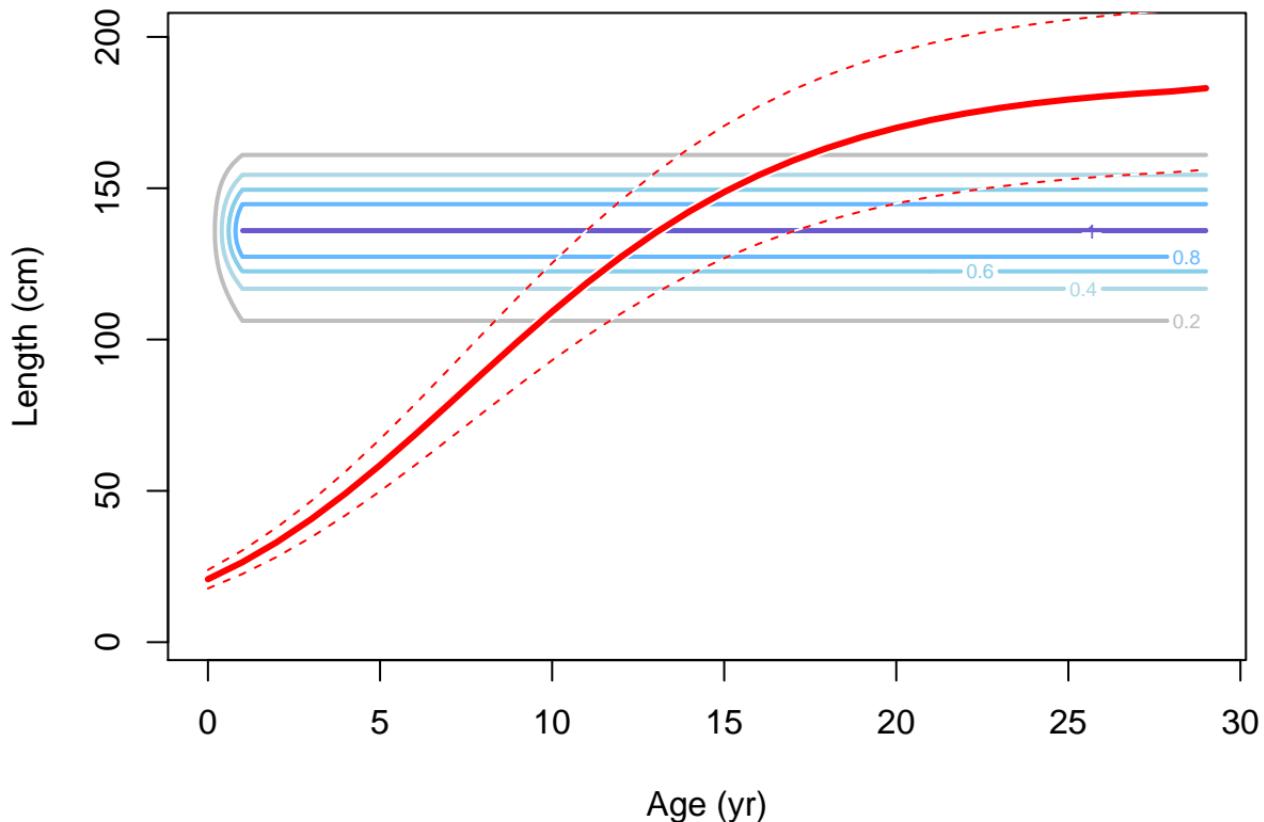
Female ending year selectivity and growth for F14–NOA_S



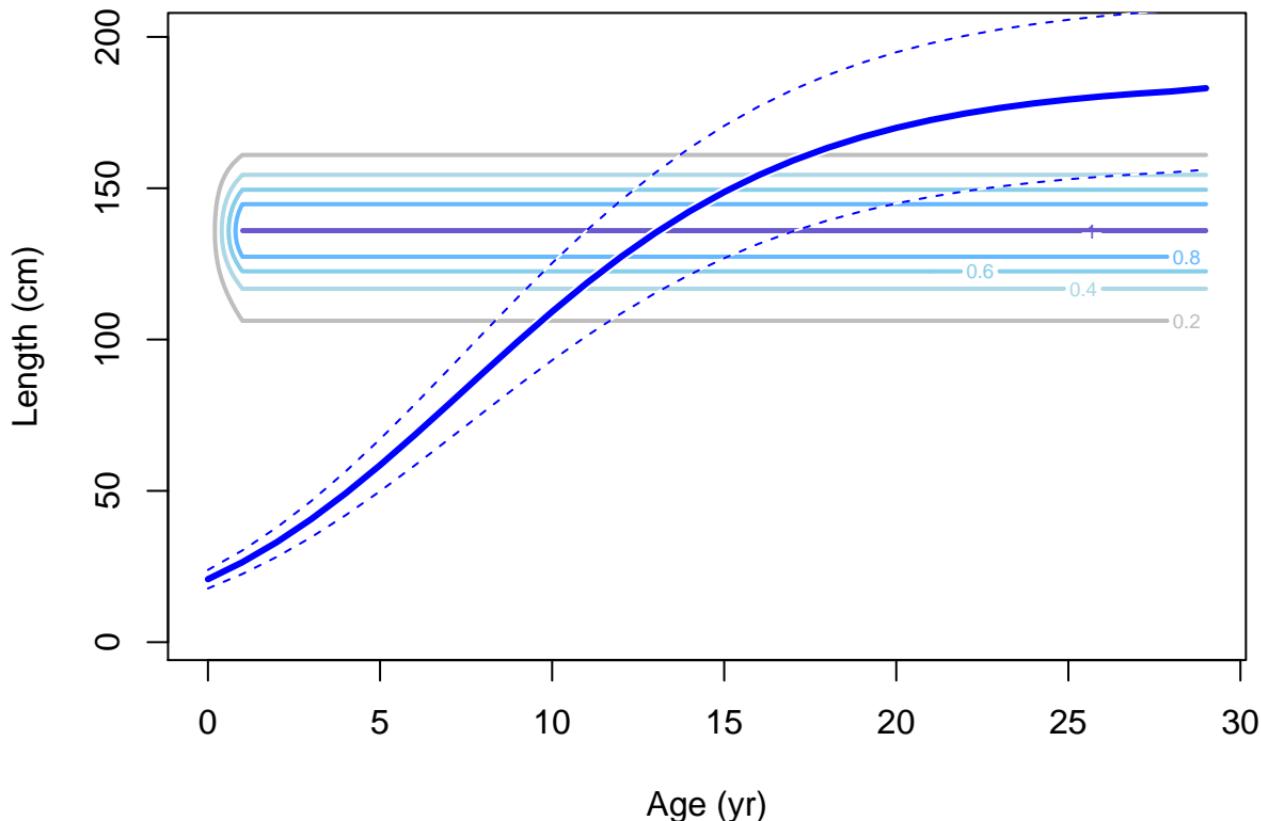
Male ending year selectivity and growth for F14-NOA_S



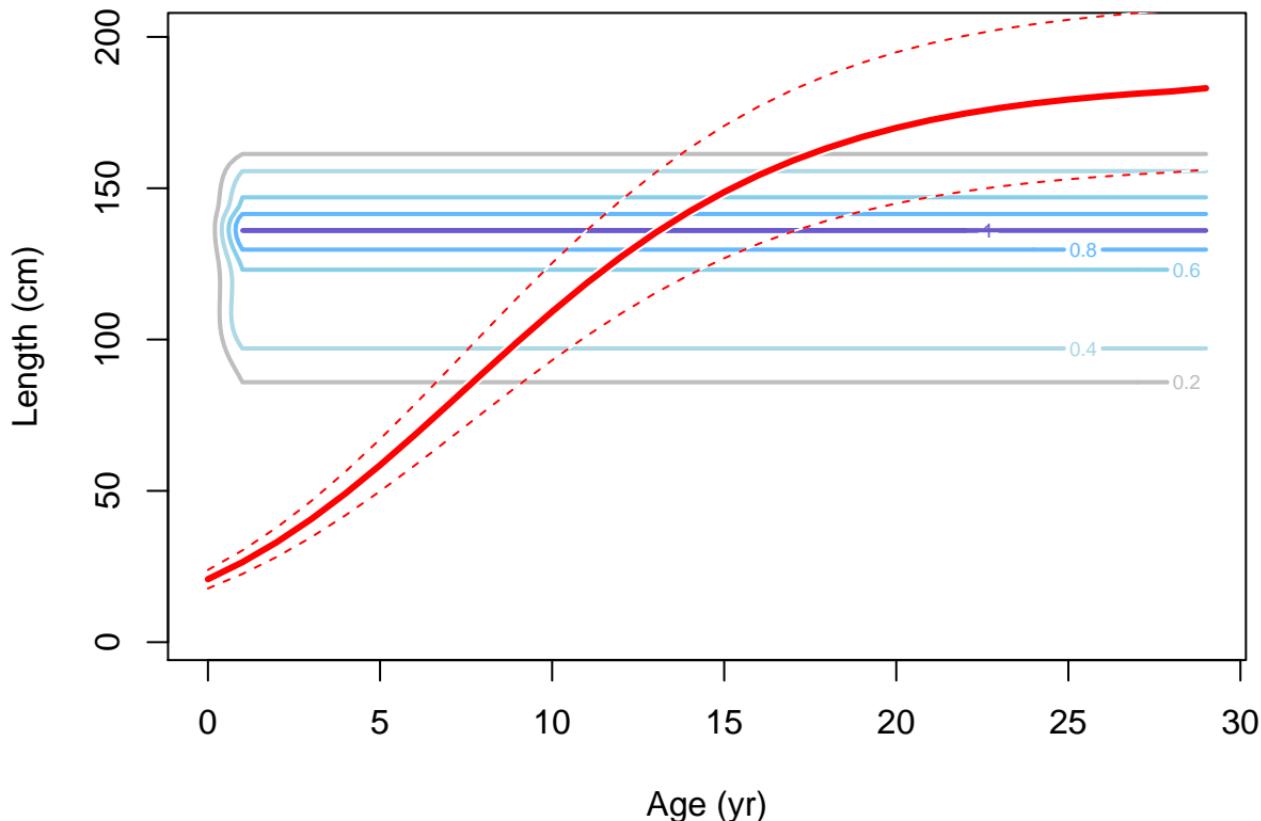
Female ending year selectivity and growth for F15-DEL_N



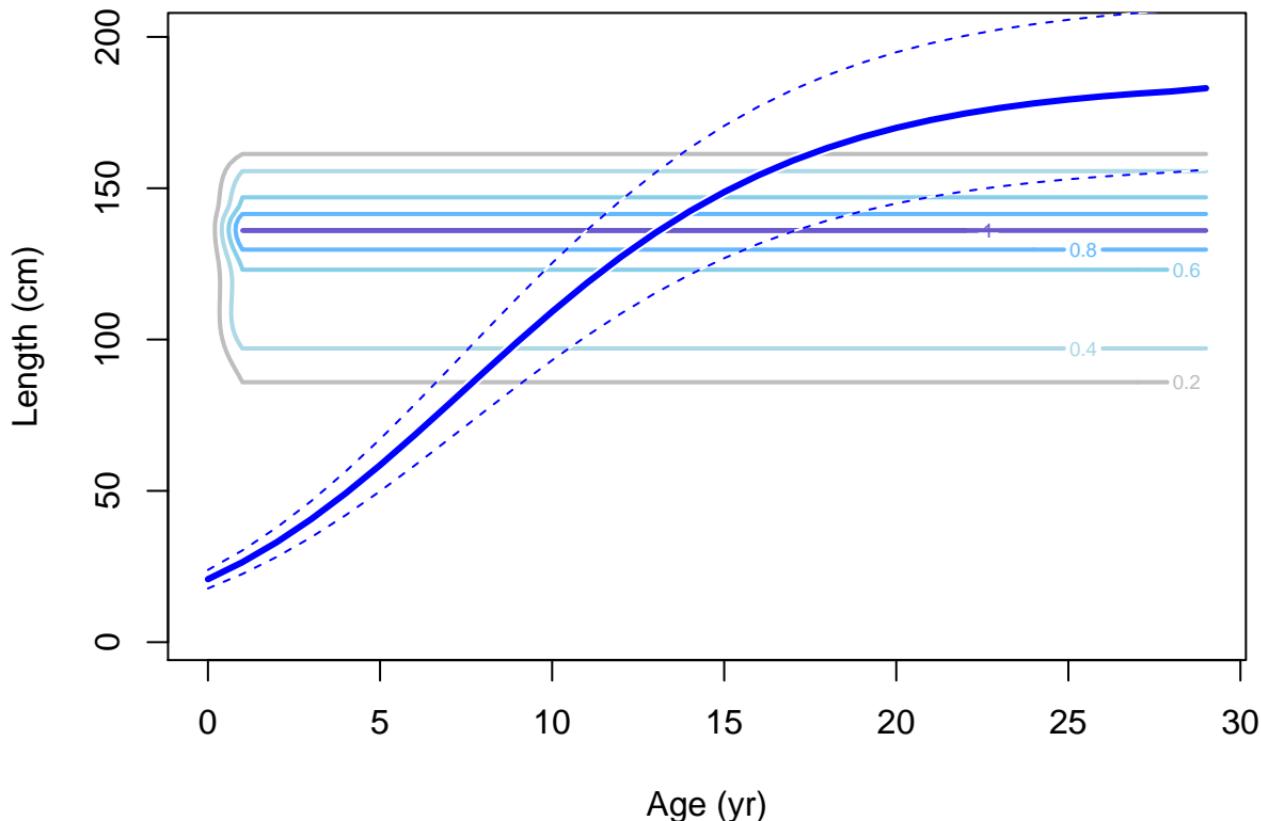
Male ending year selectivity and growth for F15-DEL_N



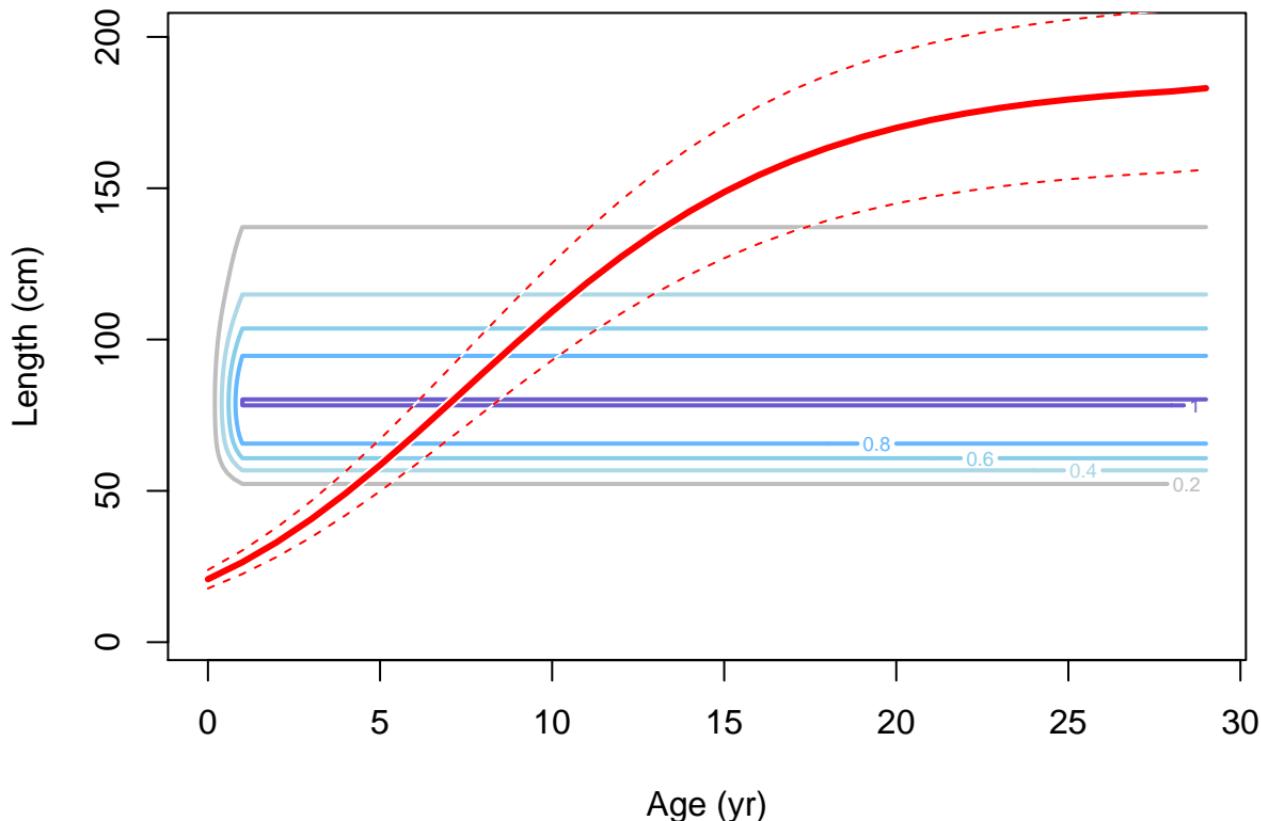
Female ending year selectivity and growth for F16-DEL_NE



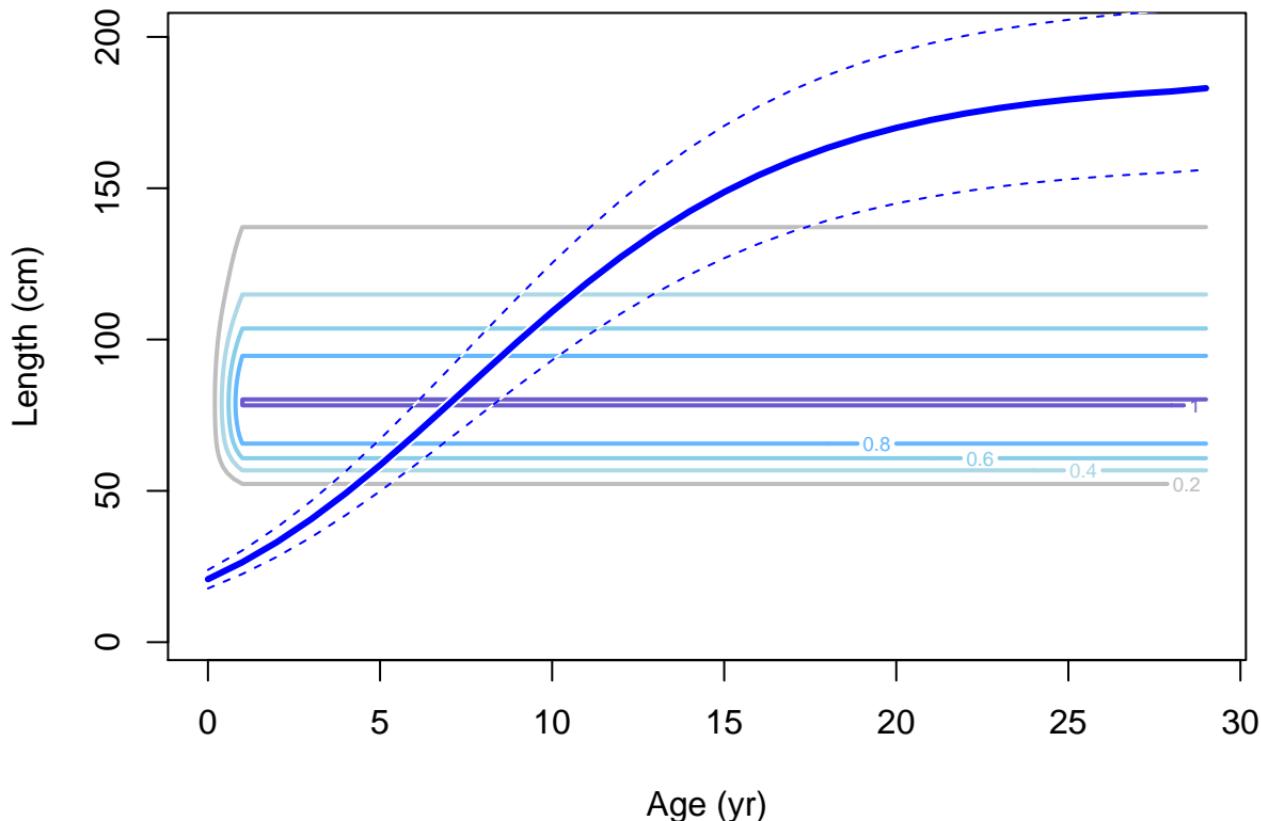
Male ending year selectivity and growth for F16-DEL_NE



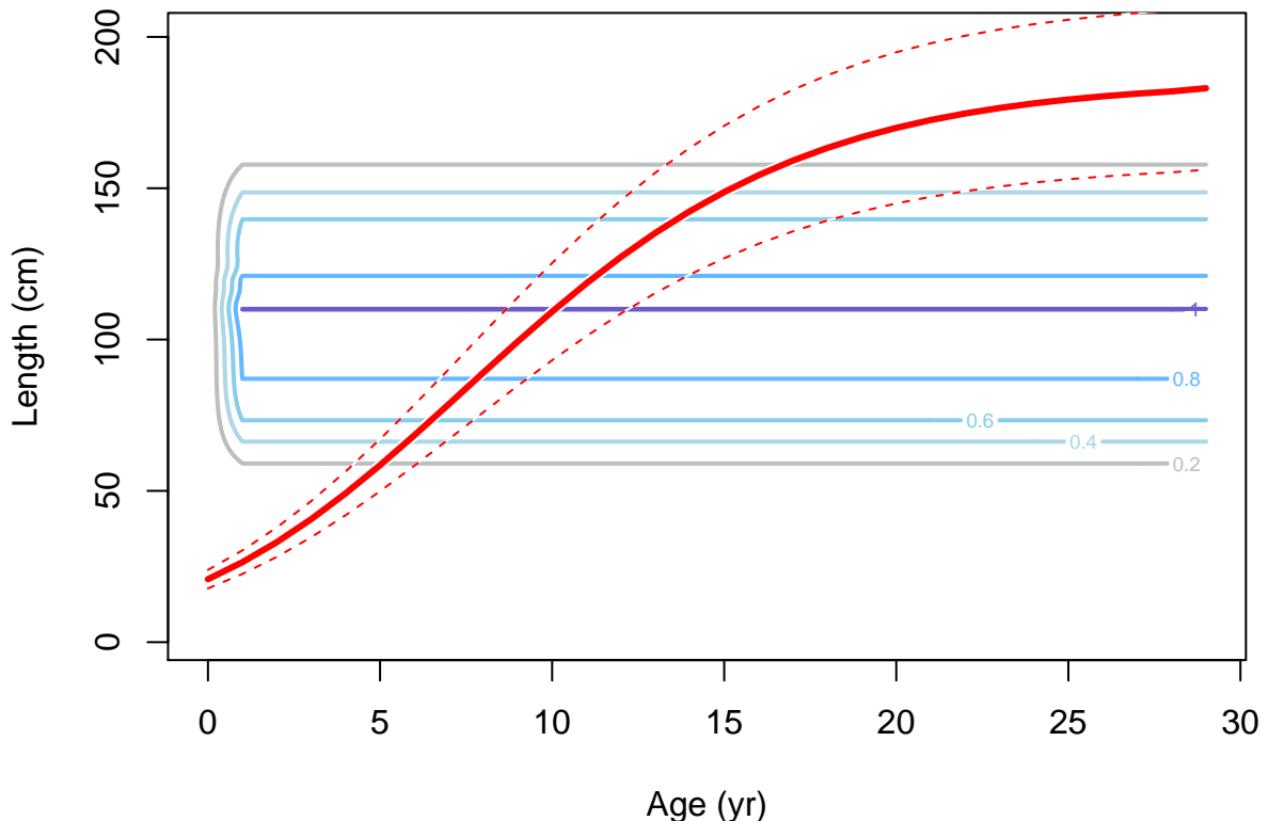
Female ending year selectivity and growth for F17-DEL_M



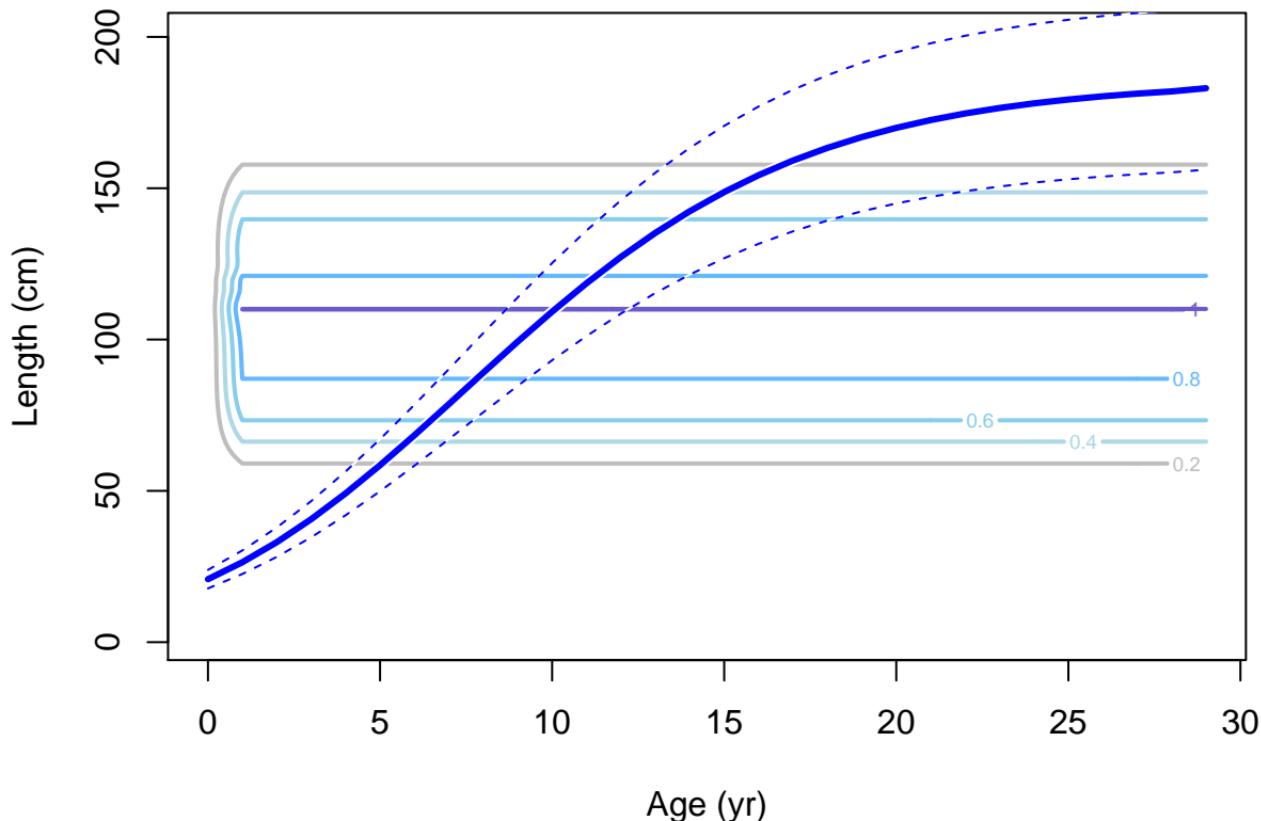
Male ending year selectivity and growth for F17-DEL_M



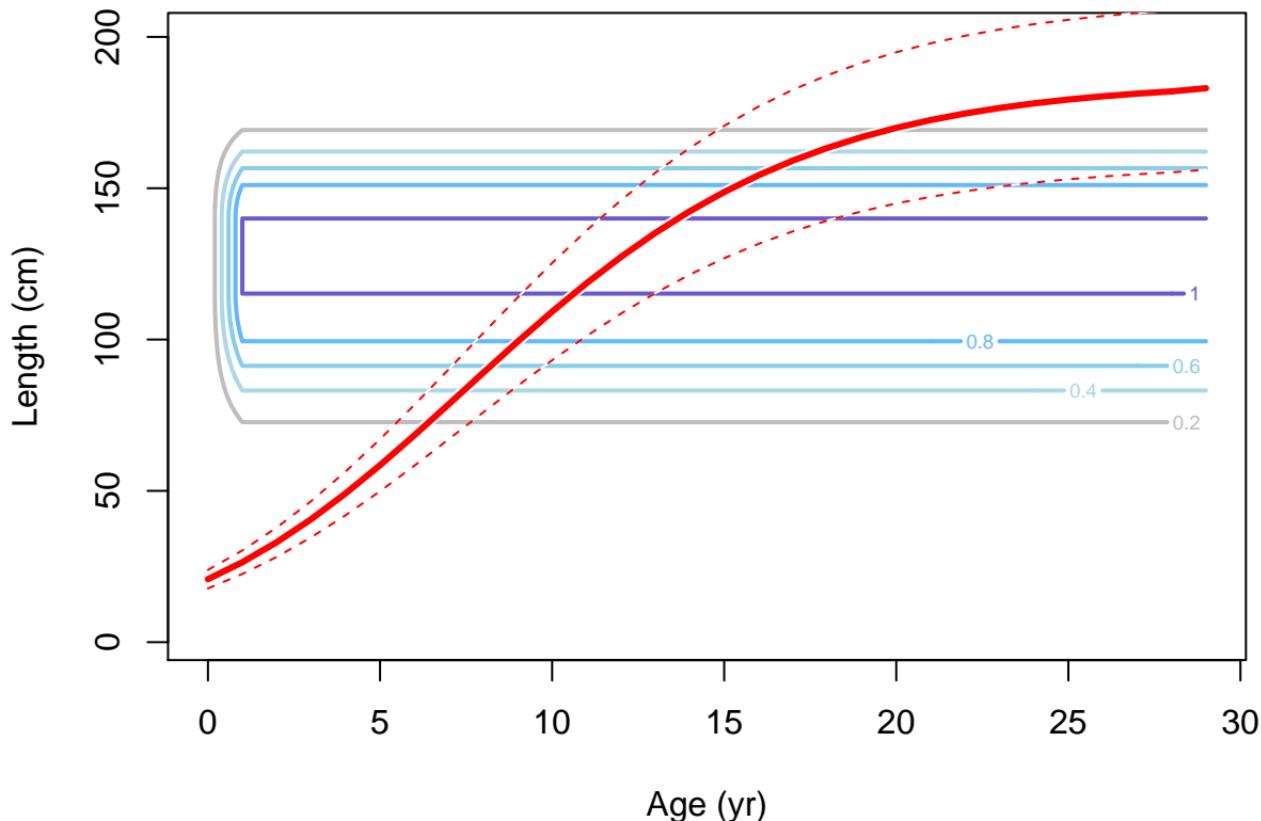
Female ending year selectivity and growth for F18-DEL_C



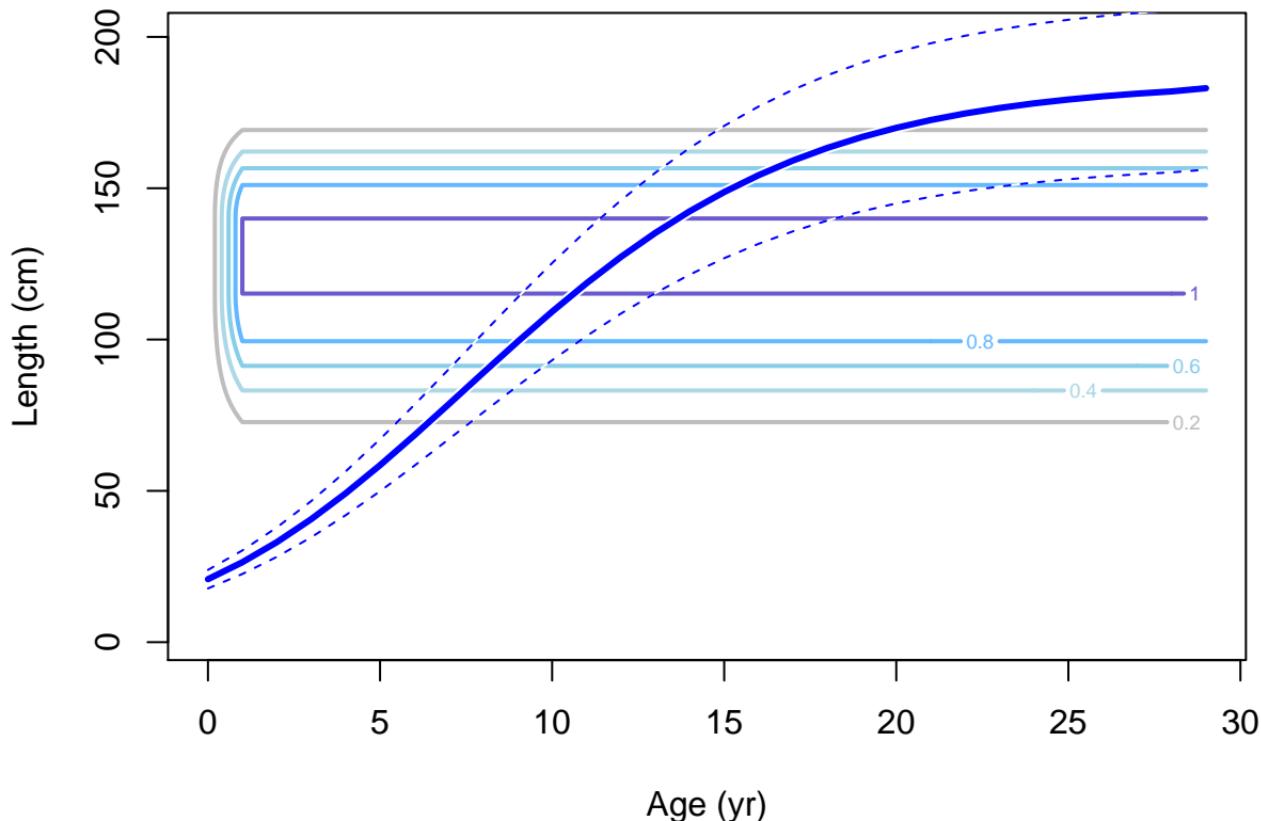
Male ending year selectivity and growth for F18-DEL_C



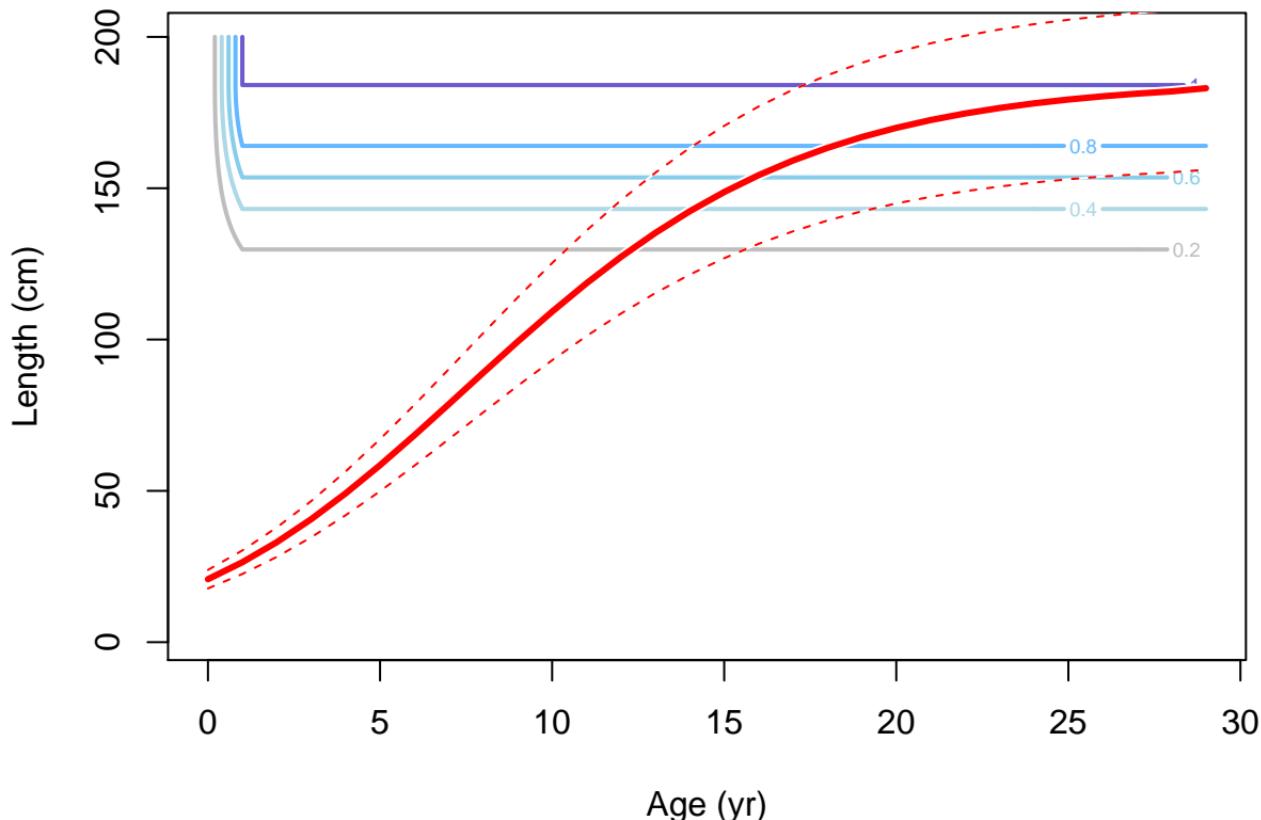
Female ending year selectivity and growth for F19-DEL_P



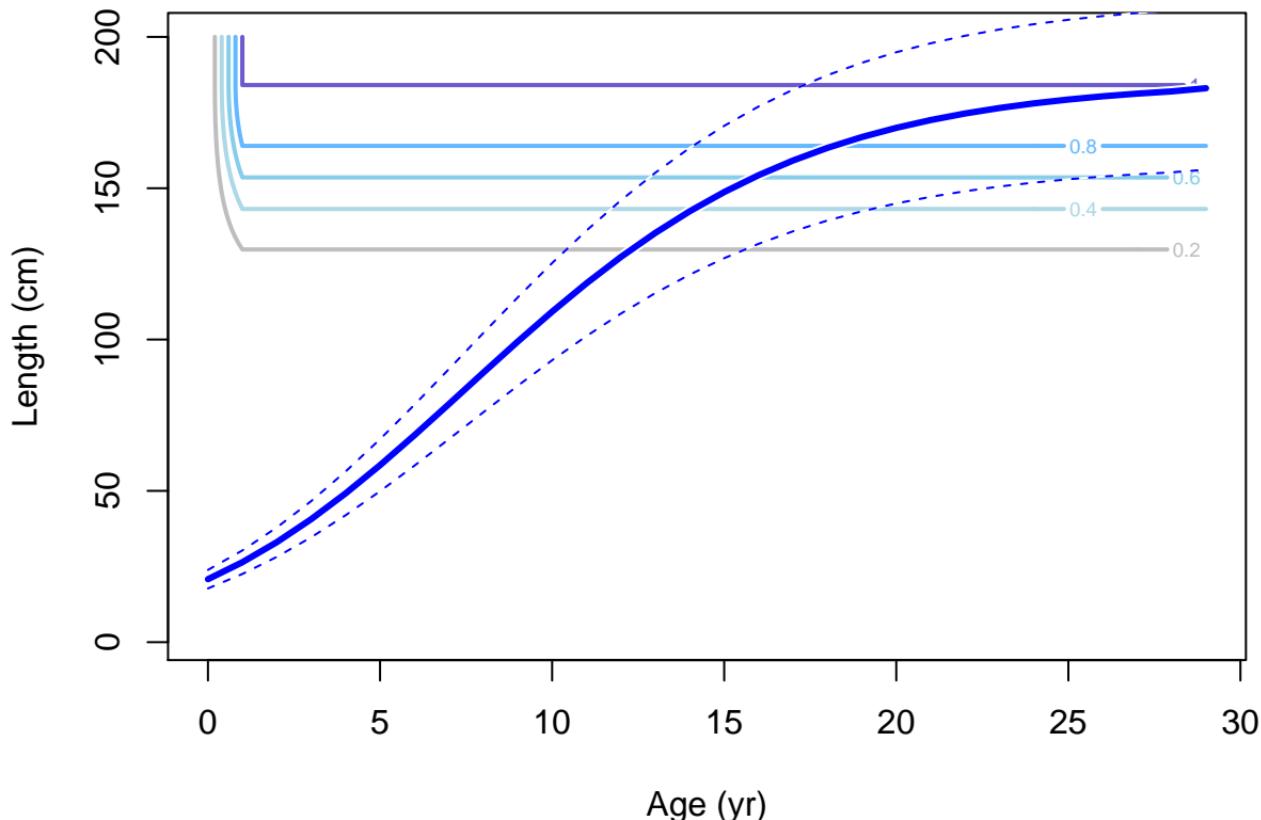
Male ending year selectivity and growth for F19-DEL_P



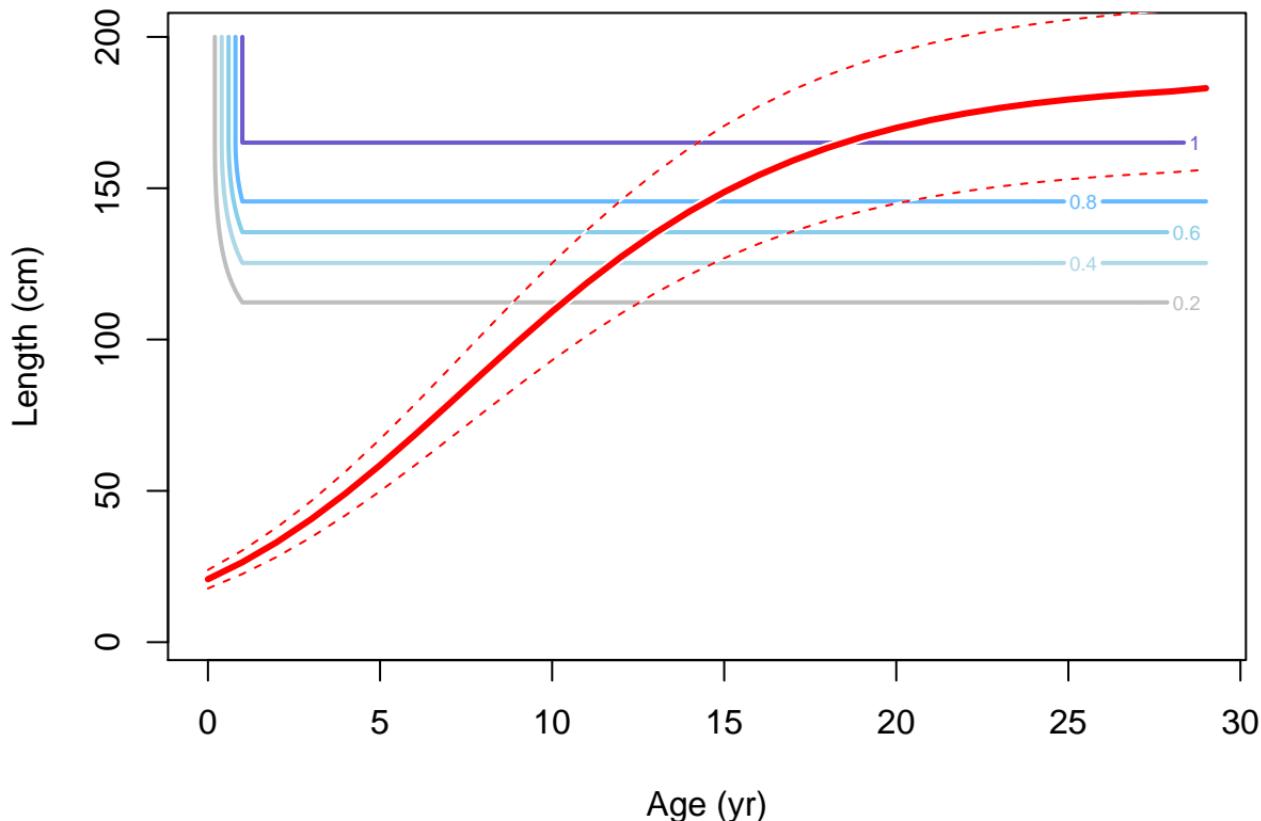
Female ending year selectivity and growth for F20-DEL_S



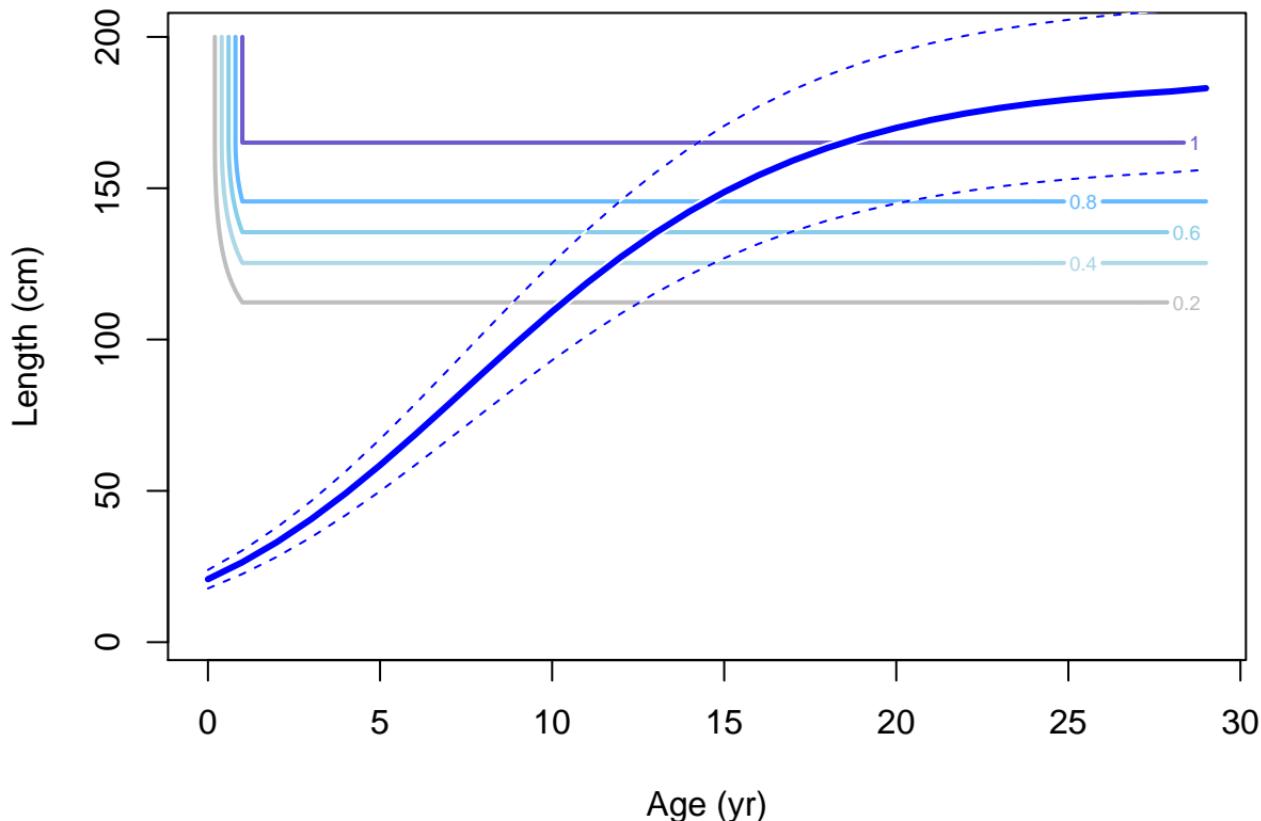
Male ending year selectivity and growth for F20-DEL_S



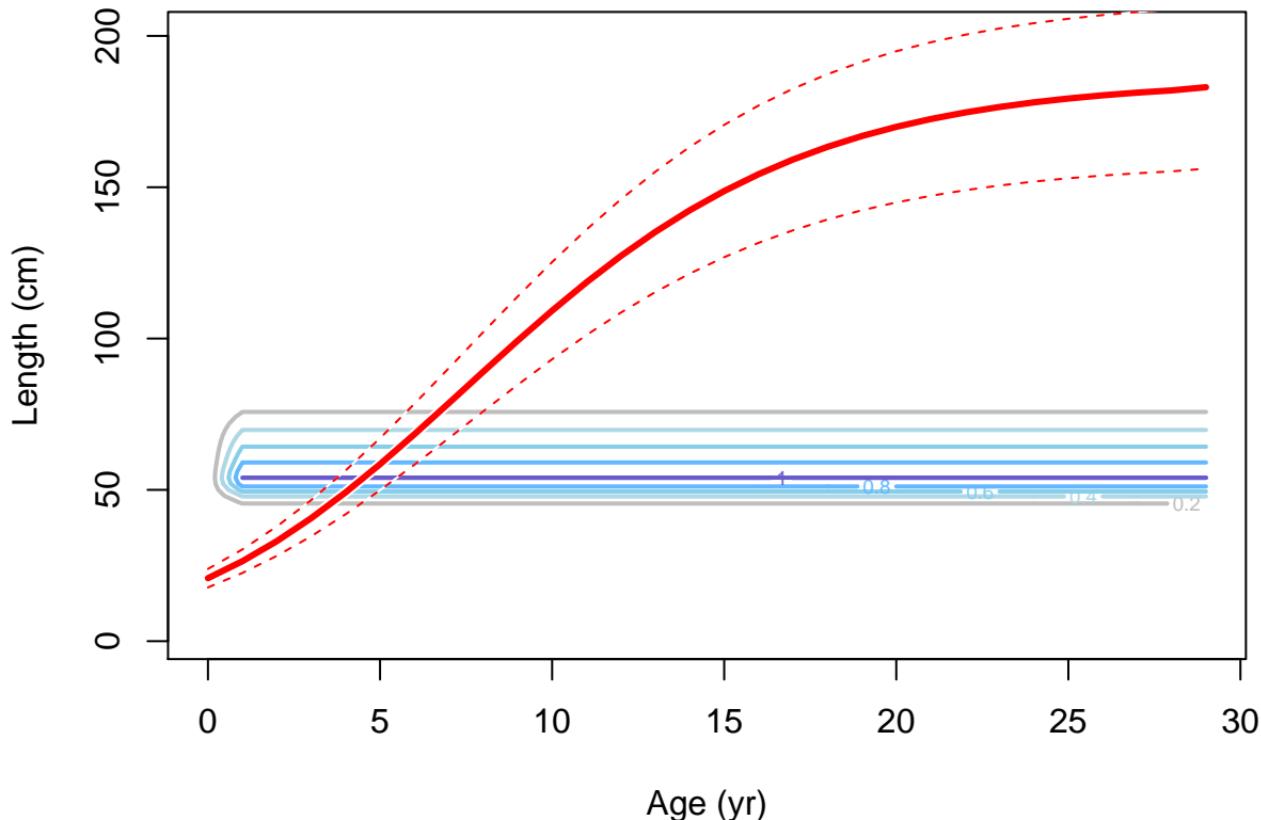
Female ending year selectivity and growth for F21-DEL_I



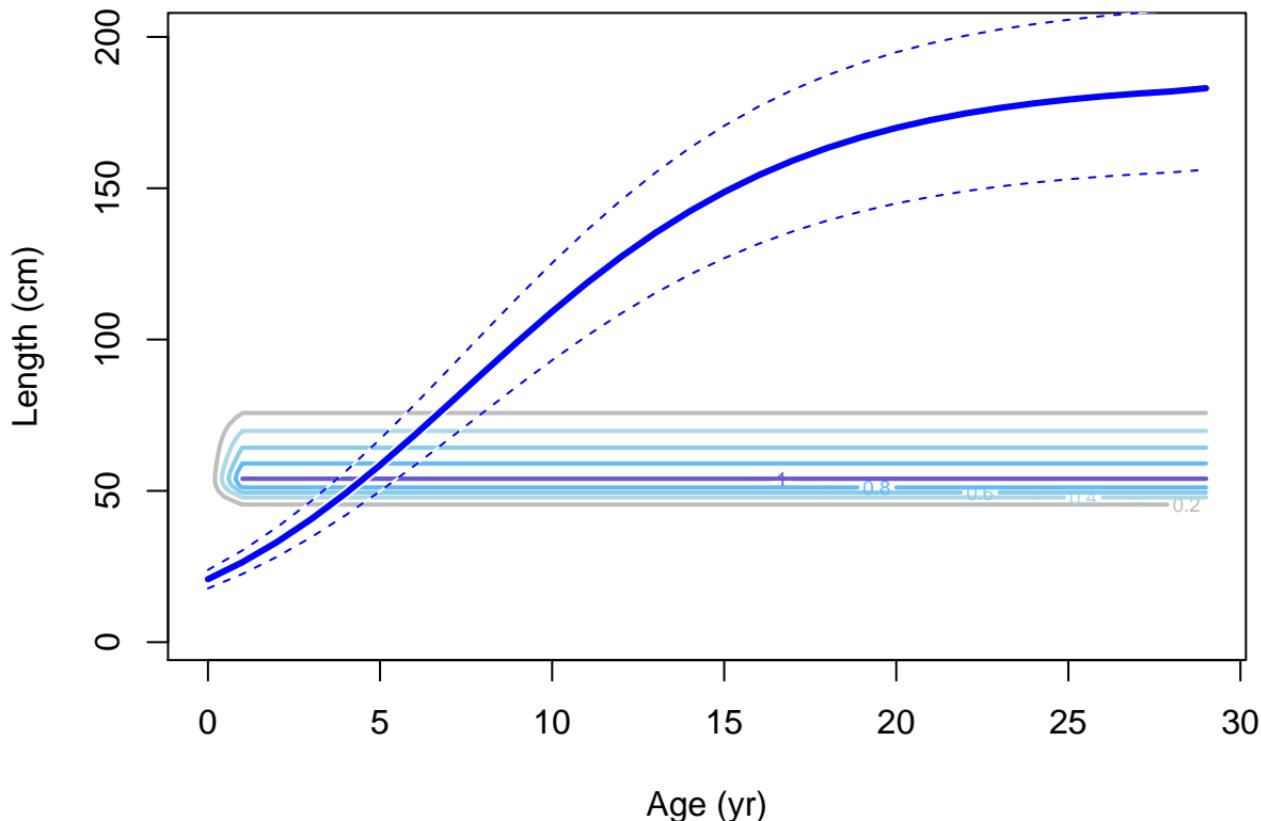
Male ending year selectivity and growth for F21-DEL_I



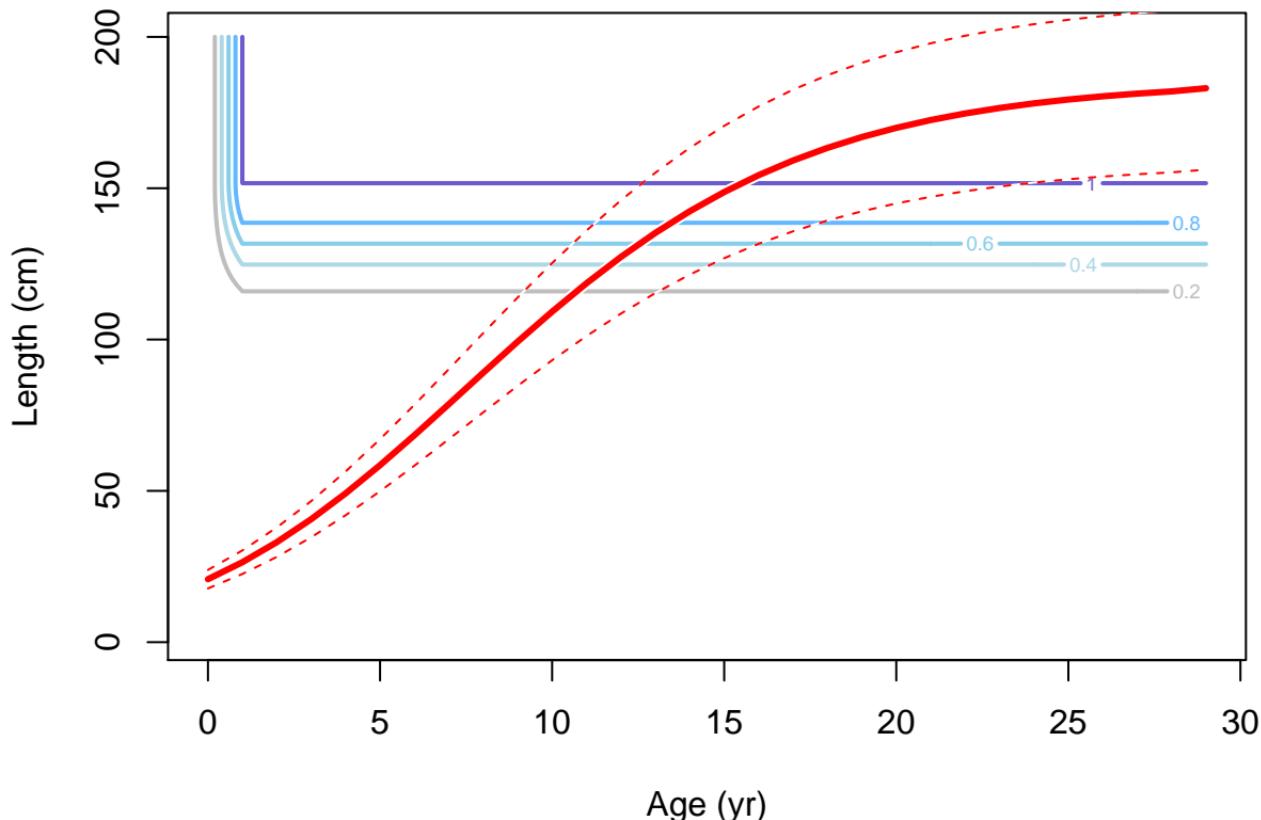
Female ending year selectivity and growth for F22-BB



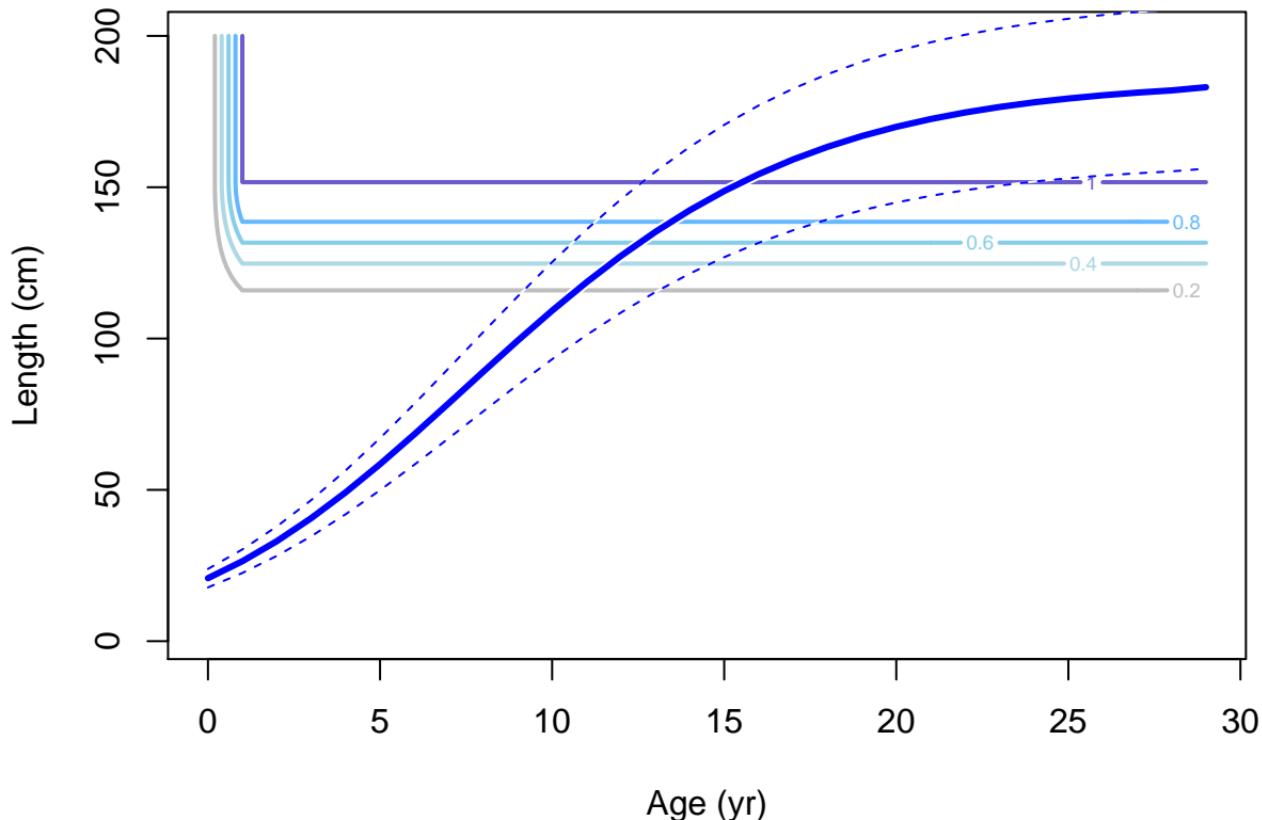
Male ending year selectivity and growth for F22-BB



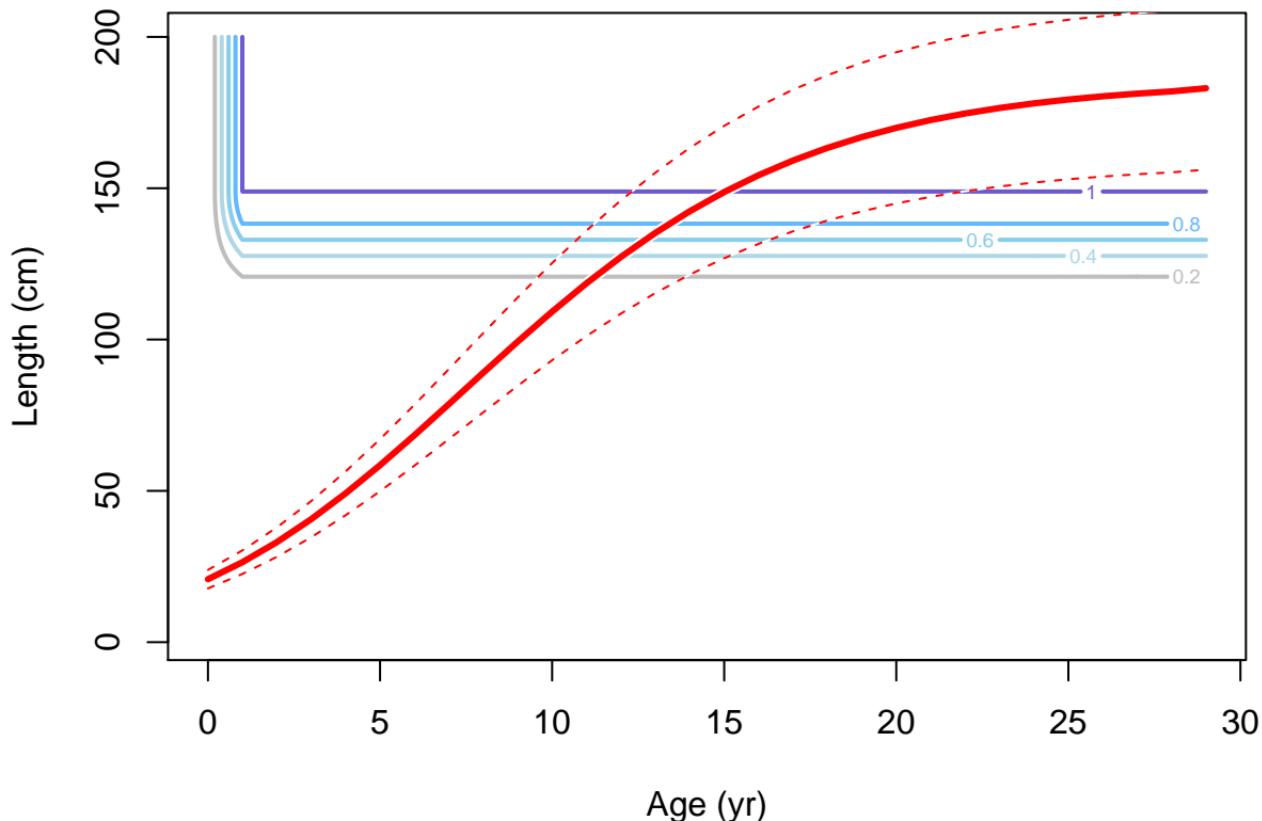
Female ending year selectivity and growth for F29-LL_W_Q14n



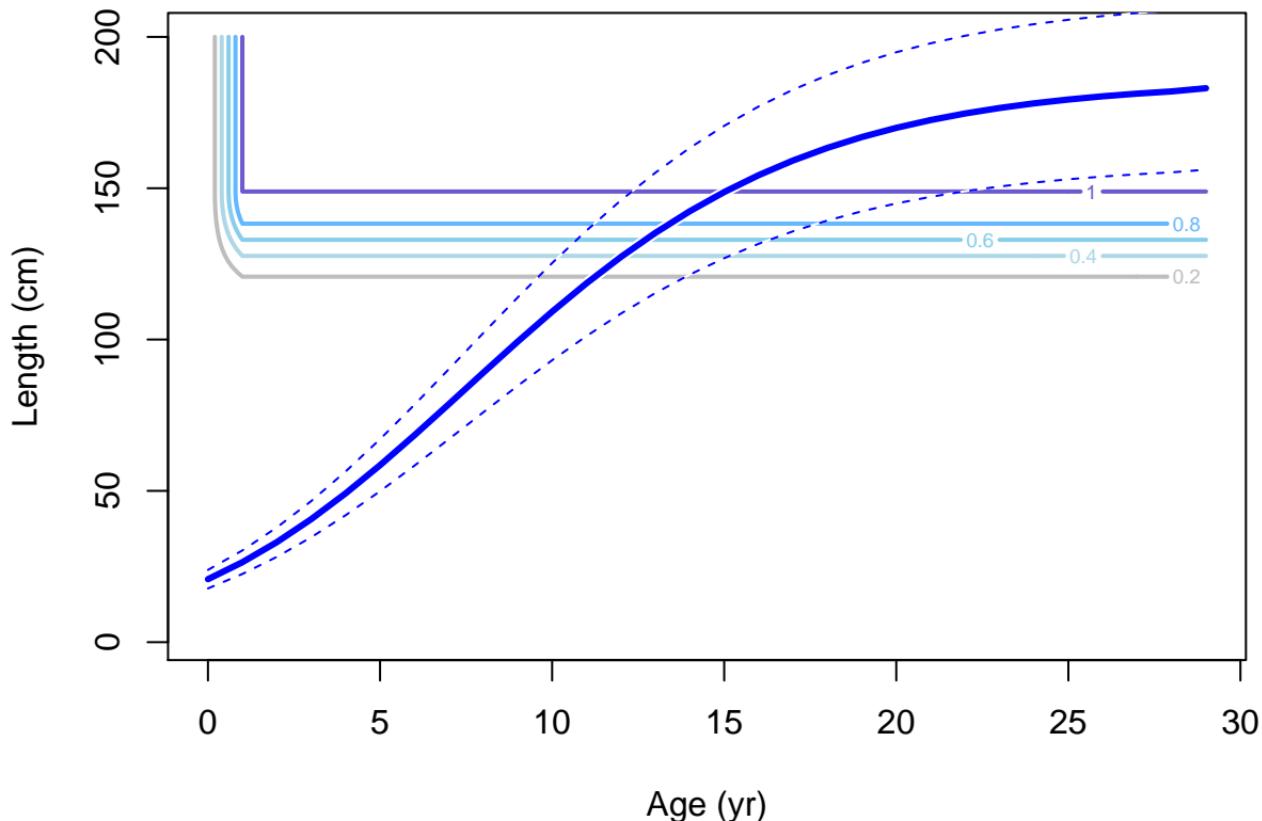
Male ending year selectivity and growth for F29–LL_W_Q14n



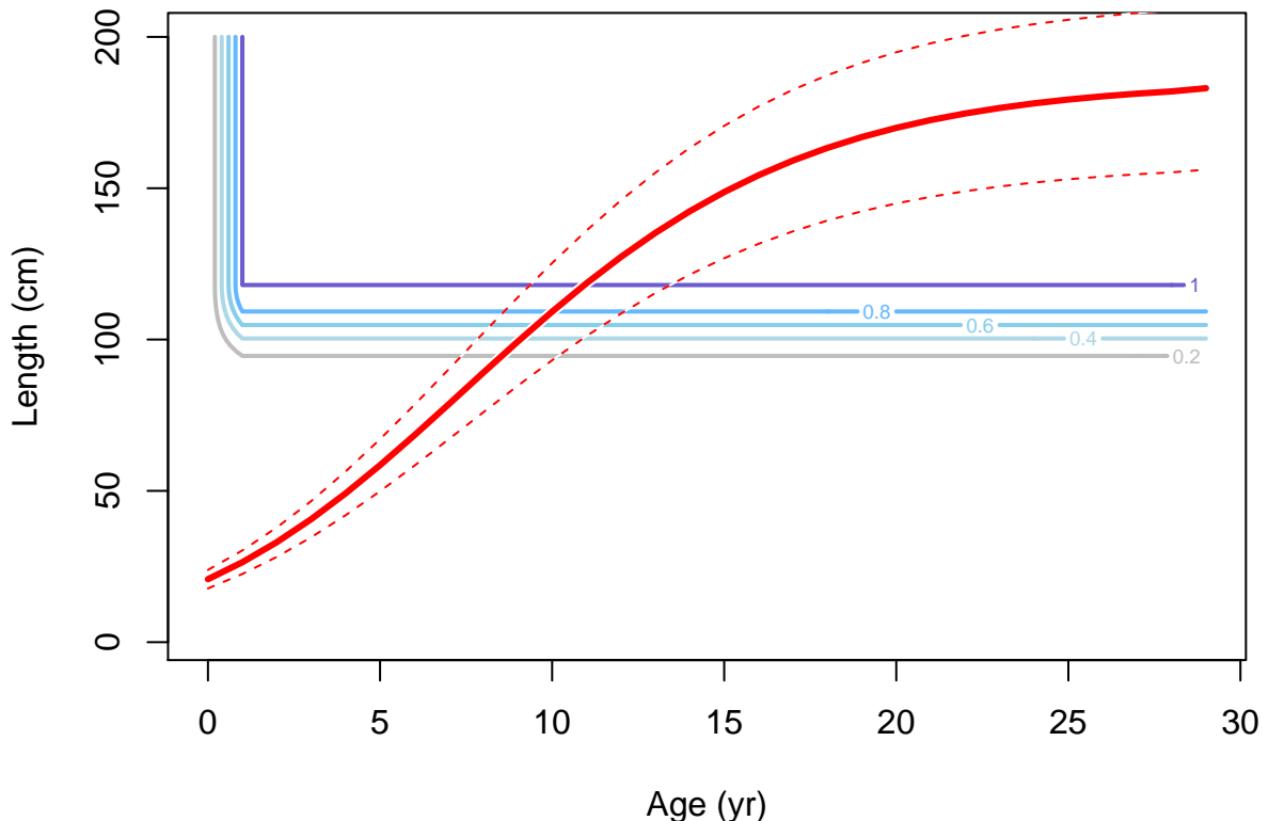
Female ending year selectivity and growth for F30-LL_C_Q14n



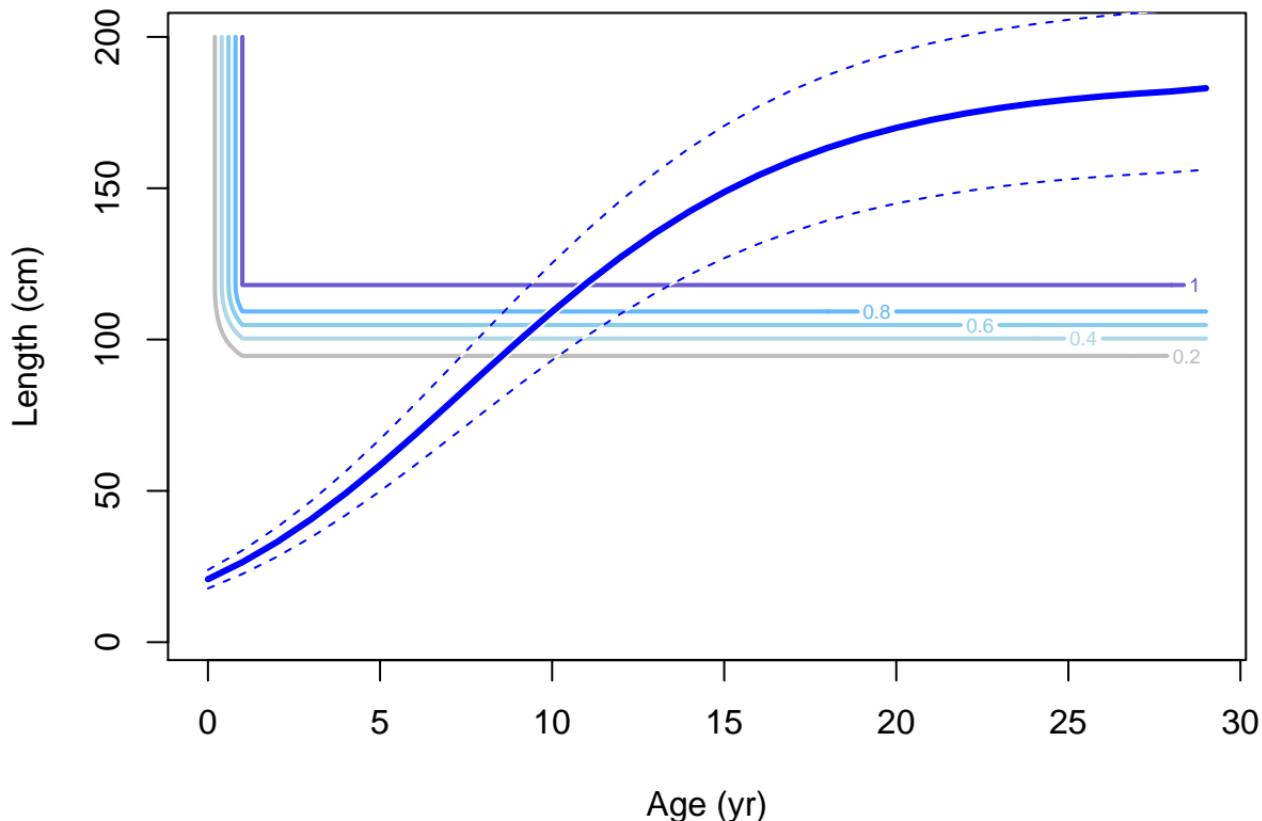
Male ending year selectivity and growth for F30-LL_C_Q14n



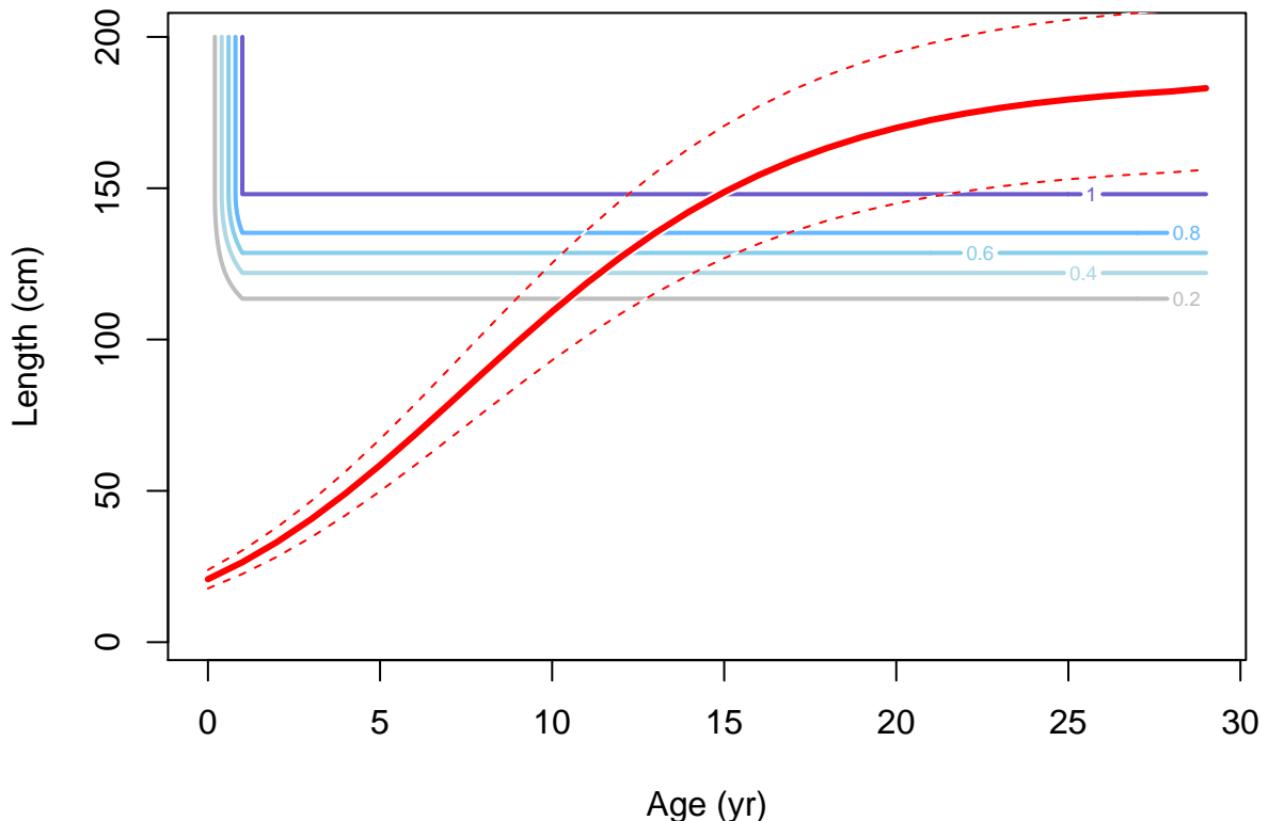
Female ending year selectivity and growth for F31-LL_E_Q14n



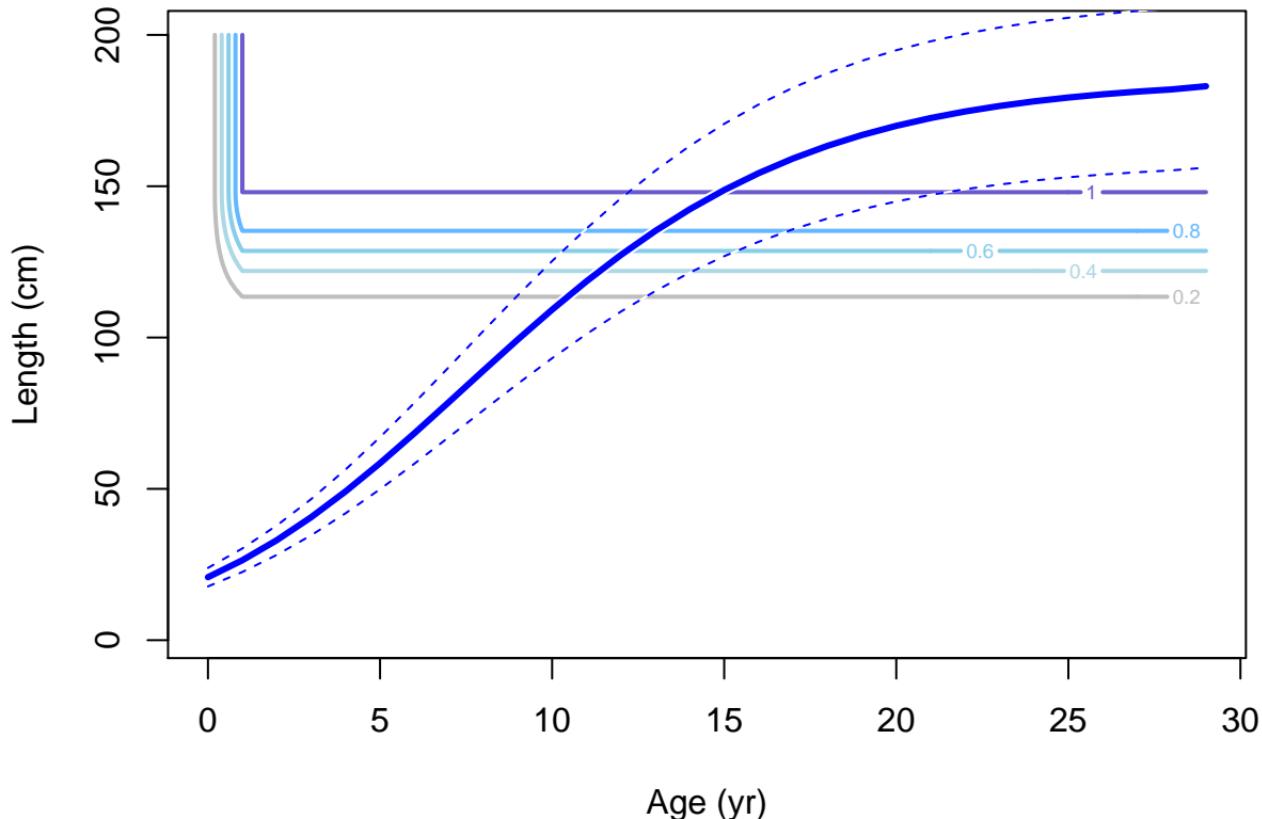
Male ending year selectivity and growth for F31-LL_E_Q14n



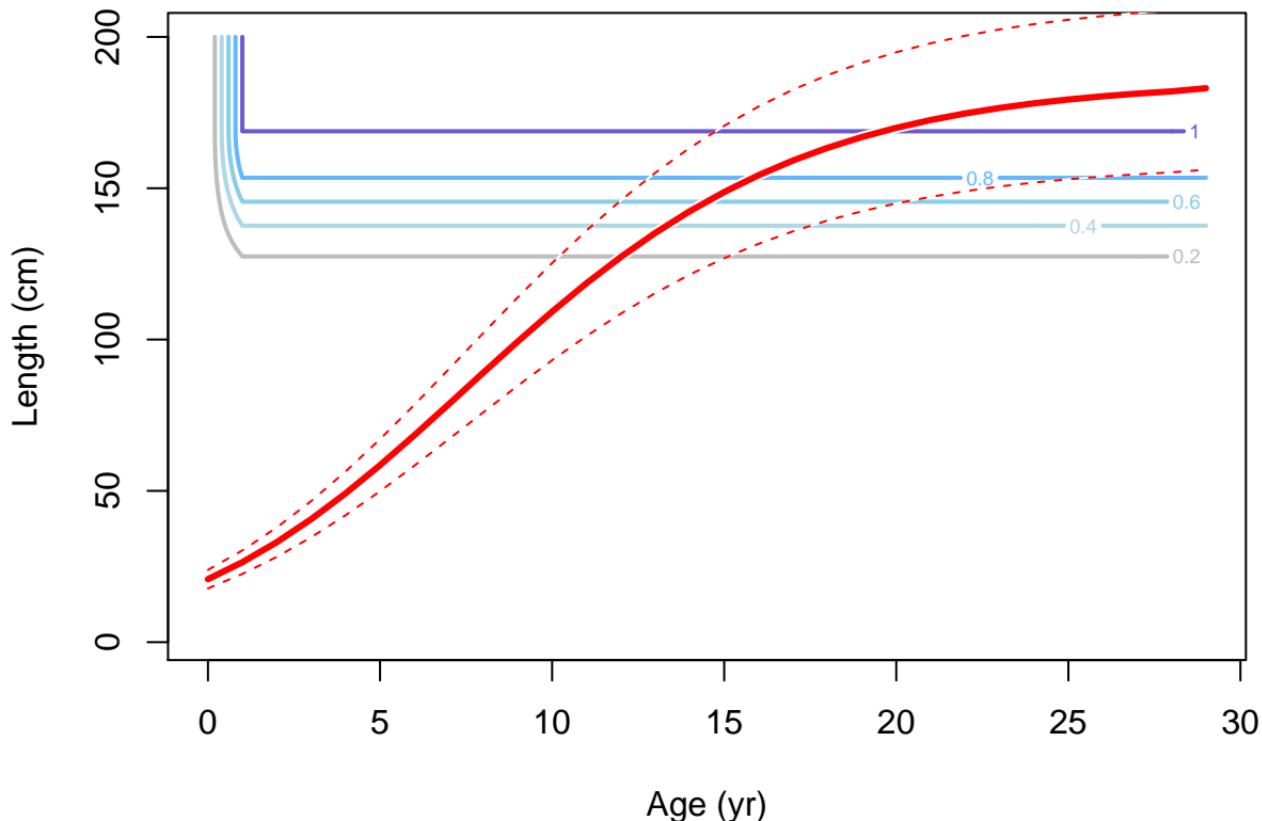
Female ending year selectivity and growth for F32-LL_W_Q23n



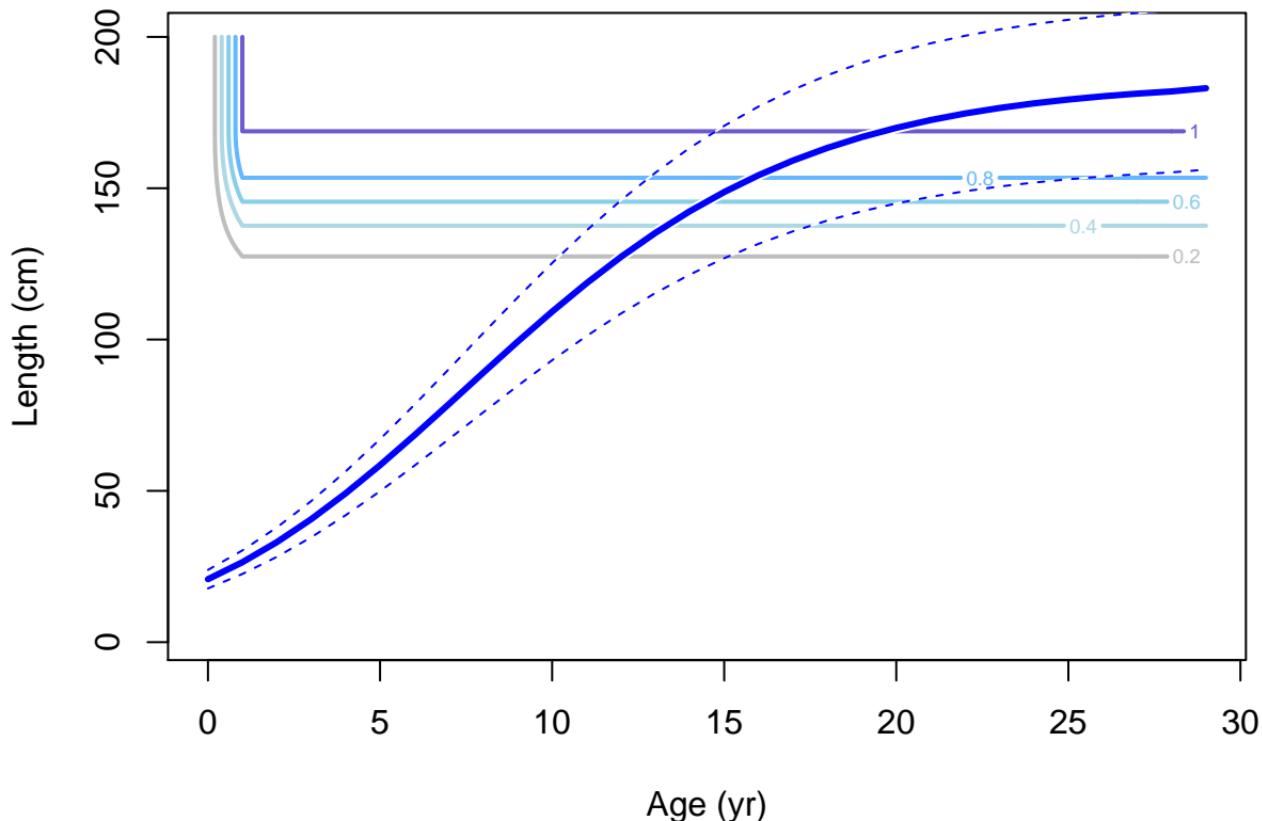
Male ending year selectivity and growth for F32-LL_W_Q23n



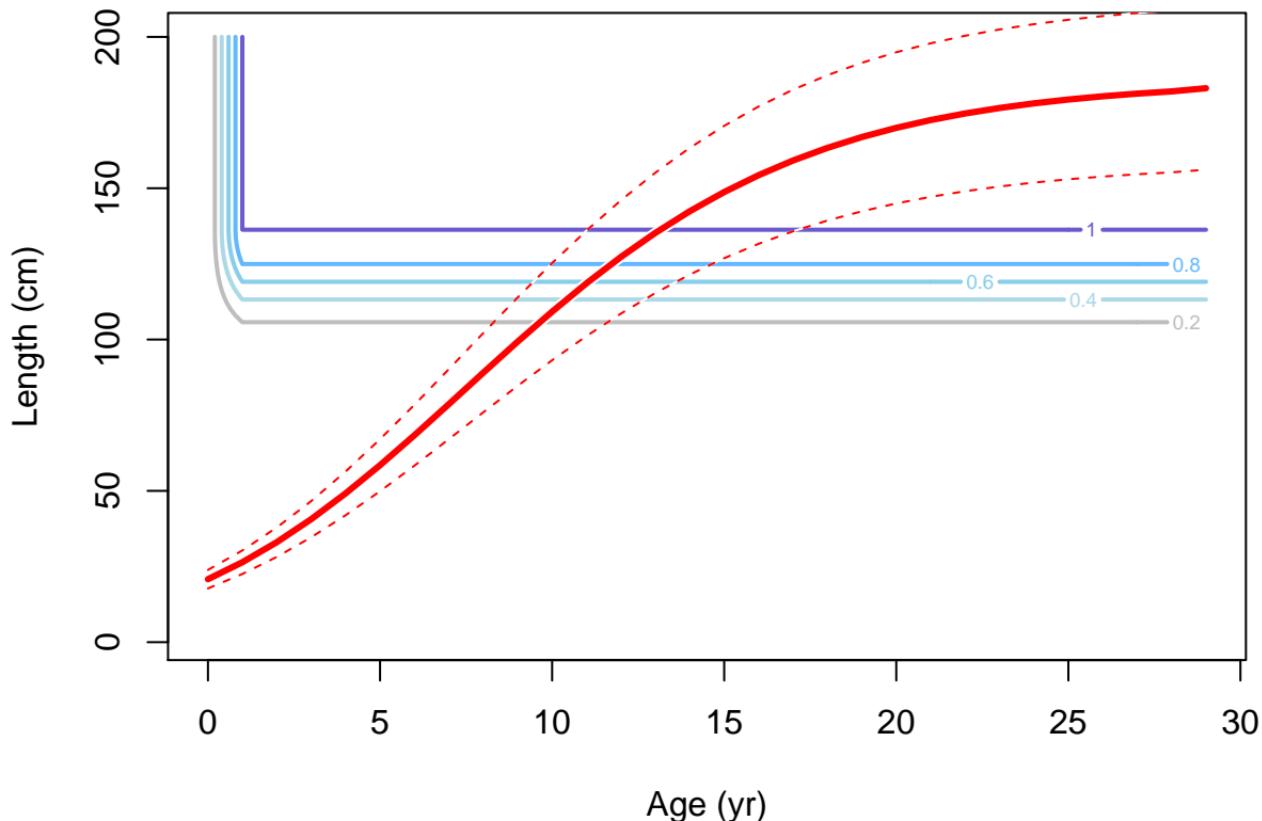
Female ending year selectivity and growth for F33-LL_C_Q23n



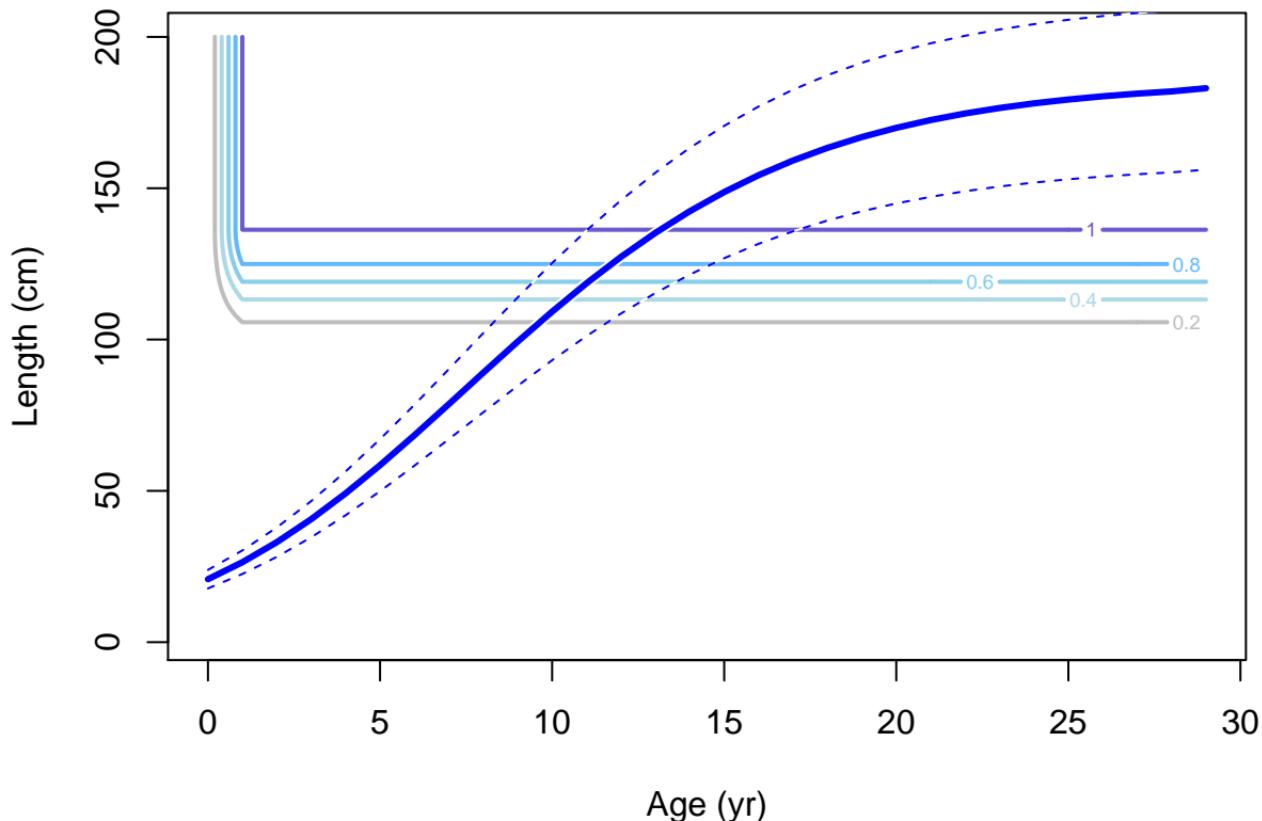
Male ending year selectivity and growth for F33-LL_C_Q23n



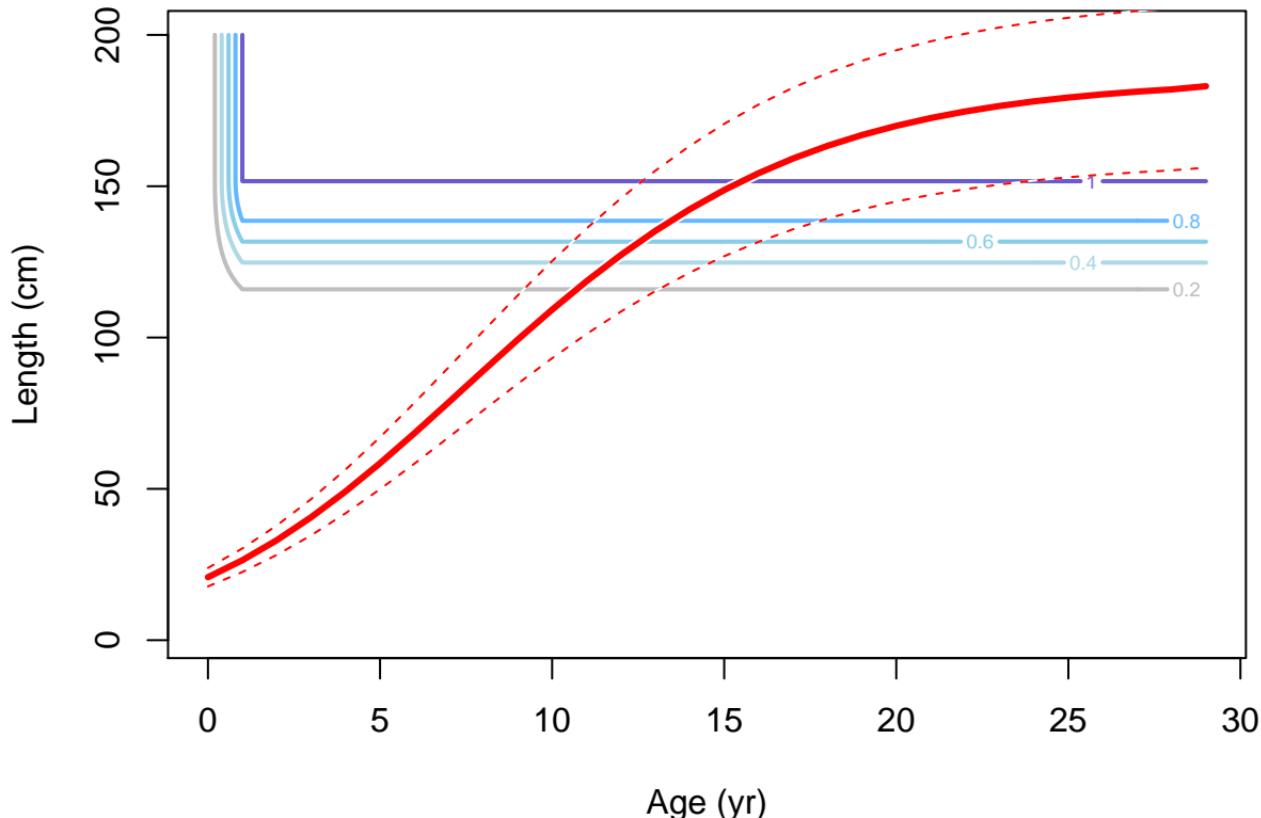
Female ending year selectivity and growth for F34-LL_E_Q23n



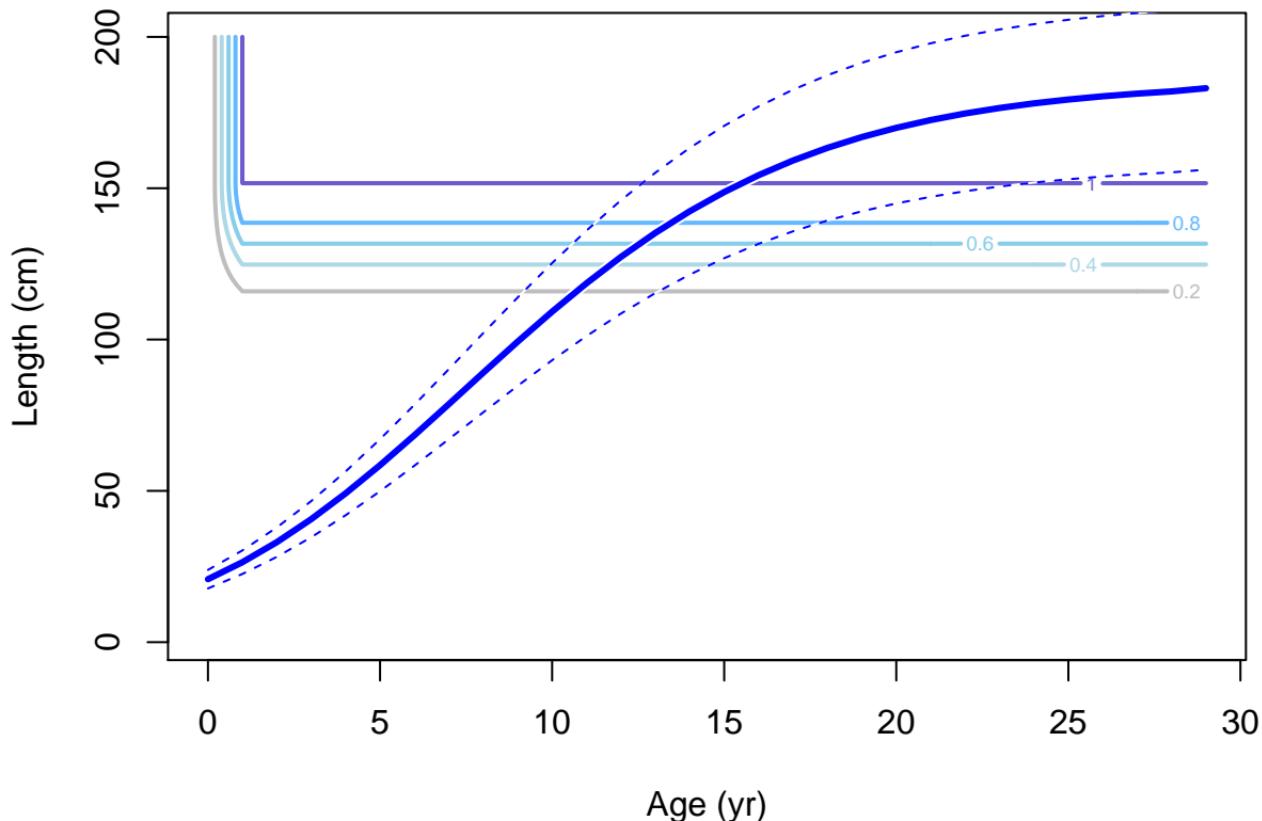
Male ending year selectivity and growth for F34-LL_E_Q23n



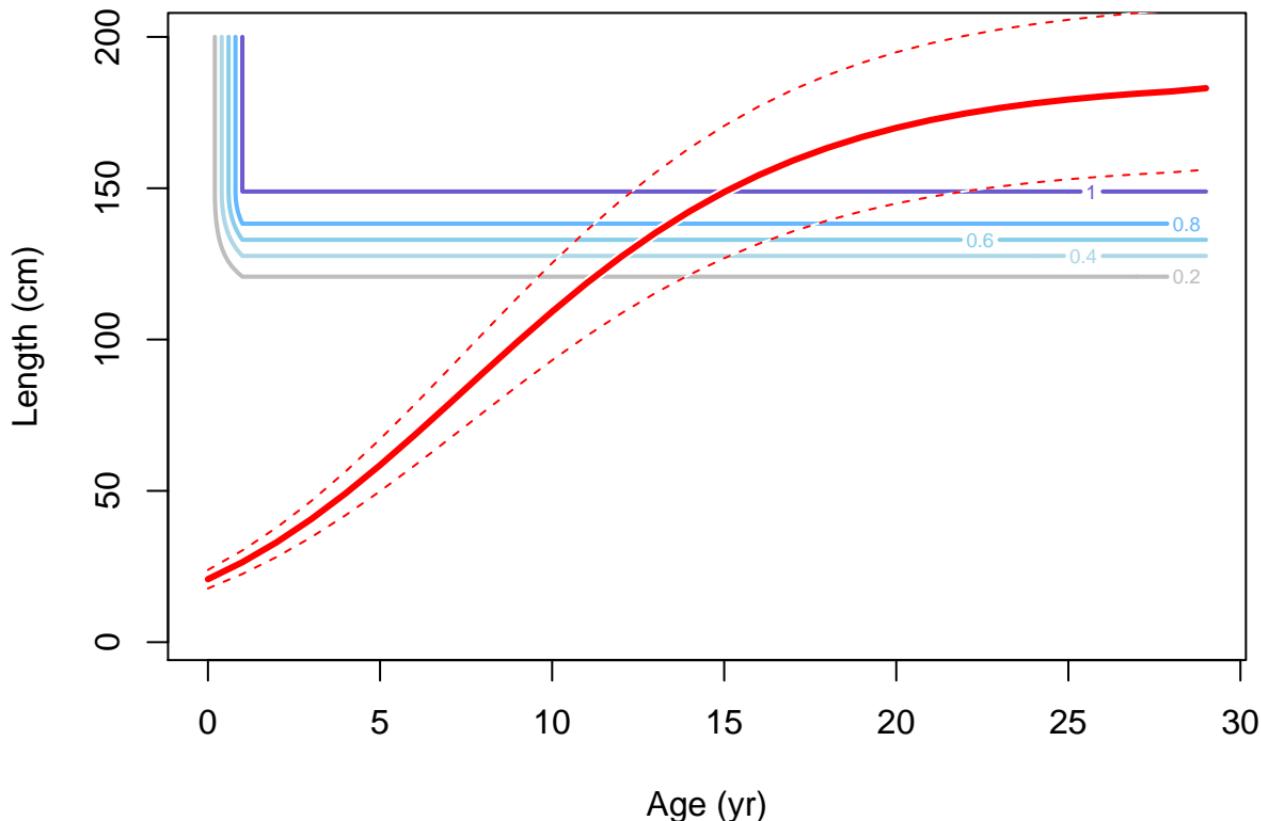
Female ending year selectivity and growth for F35-LL_W_Q14w



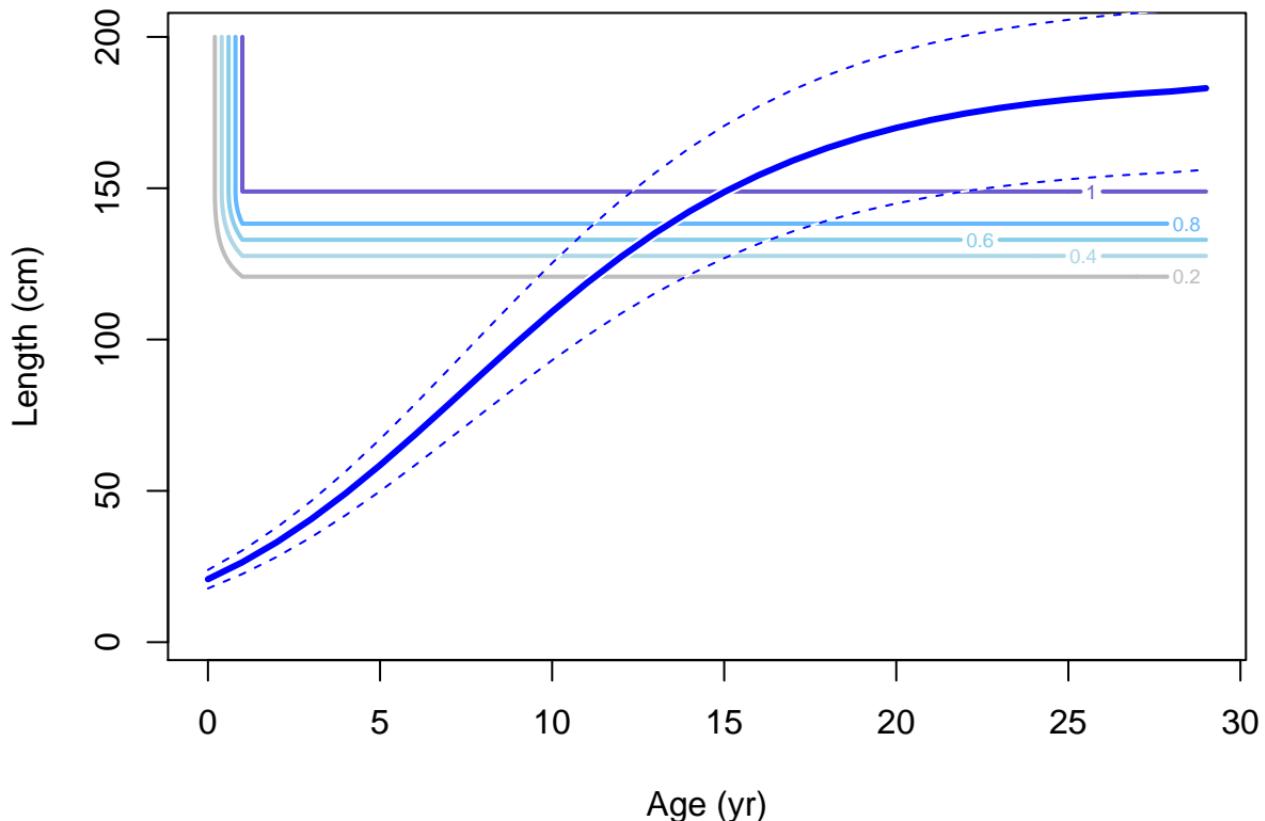
Male ending year selectivity and growth for F35-LL_W_Q14w



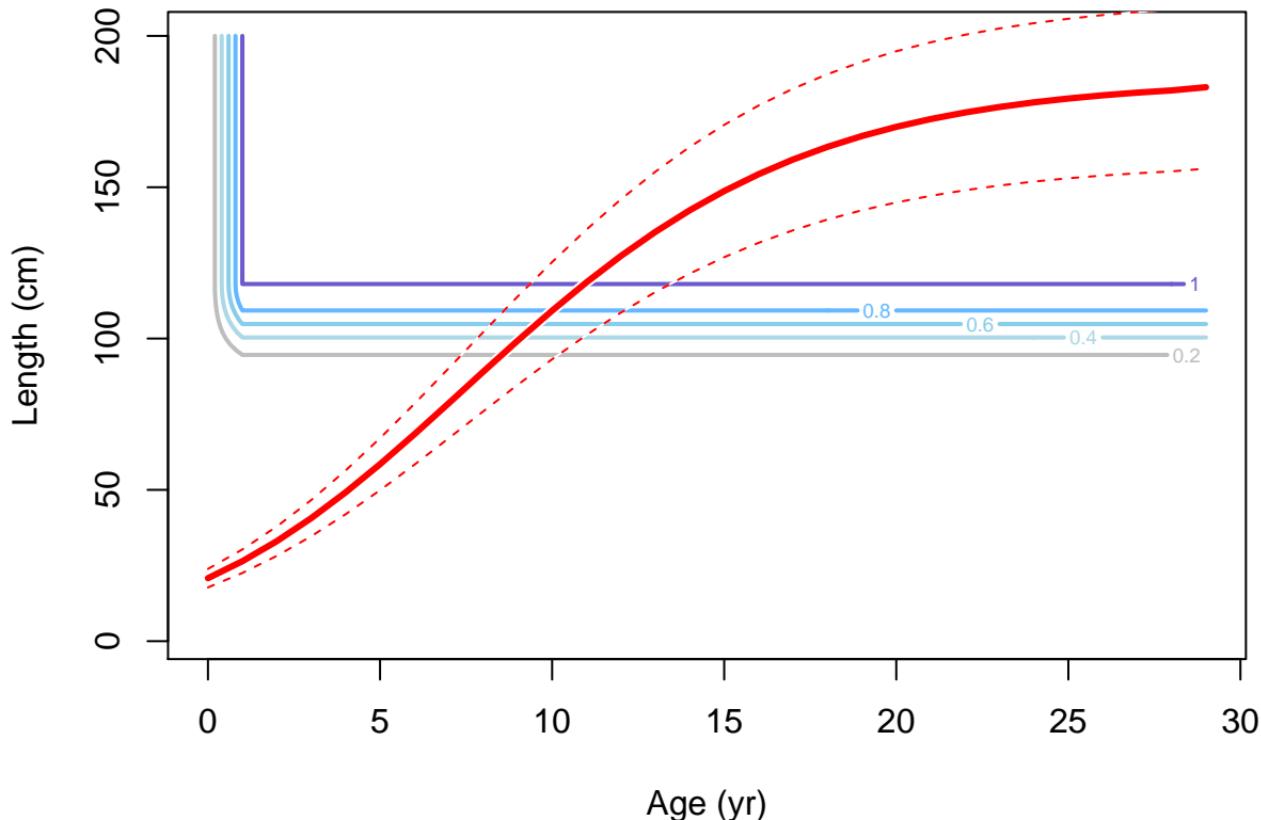
Female ending year selectivity and growth for F36-LL_C_Q14w



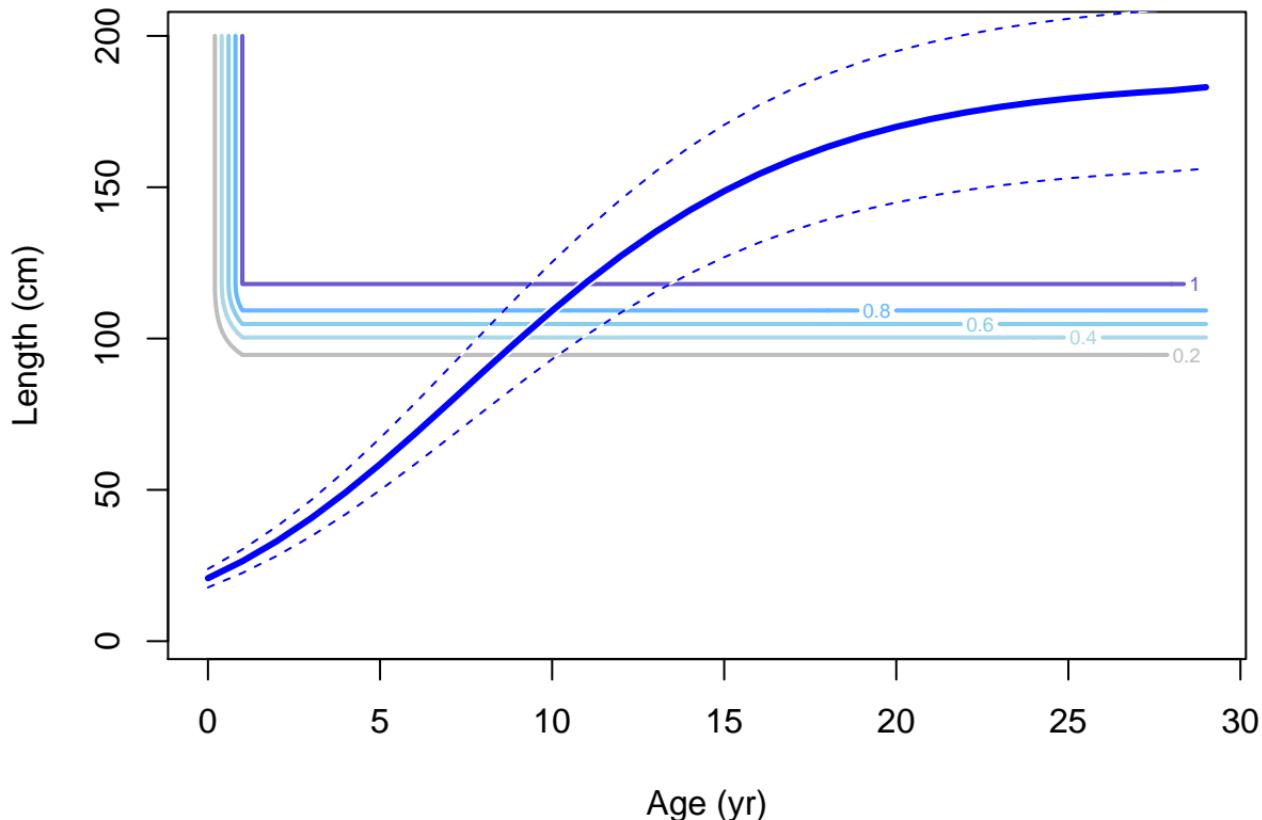
Male ending year selectivity and growth for F36-LL_C_Q14w



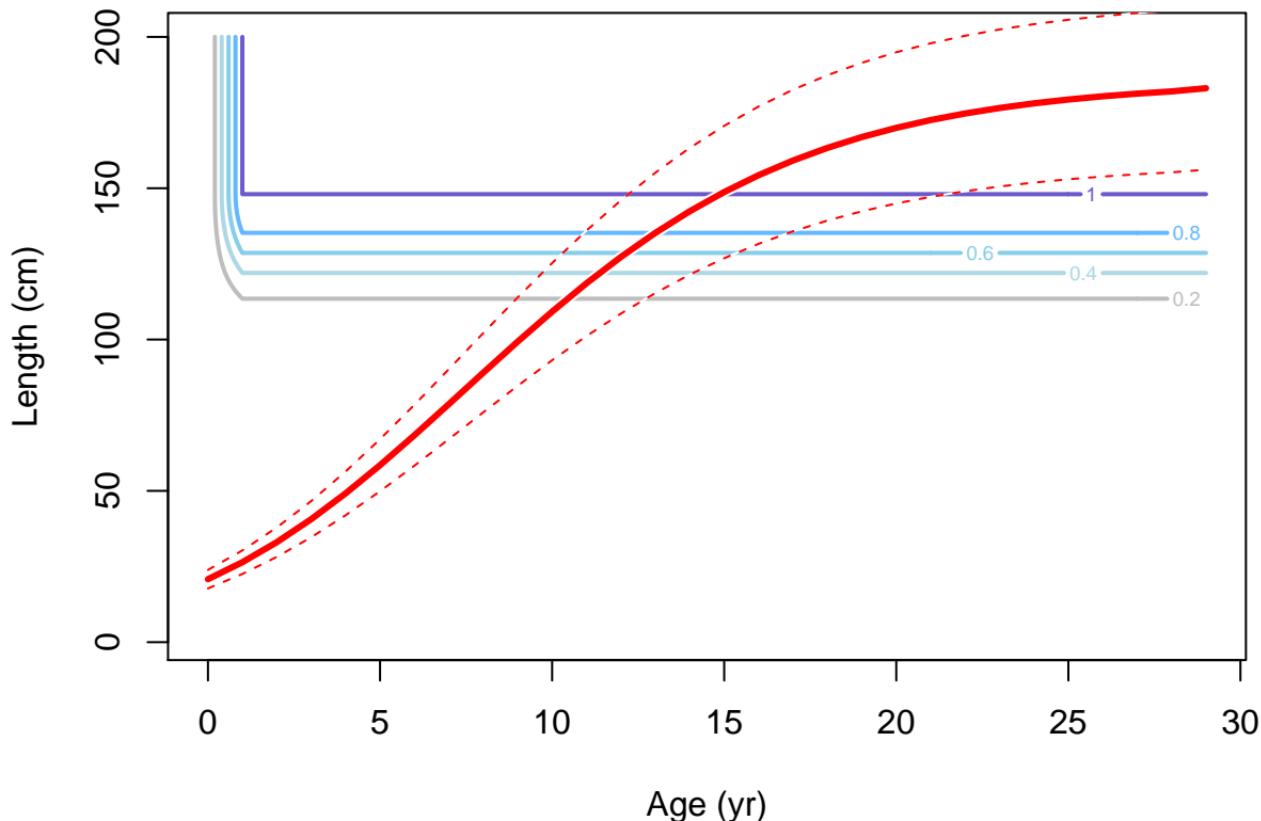
Female ending year selectivity and growth for F37-LL_E_Q14w



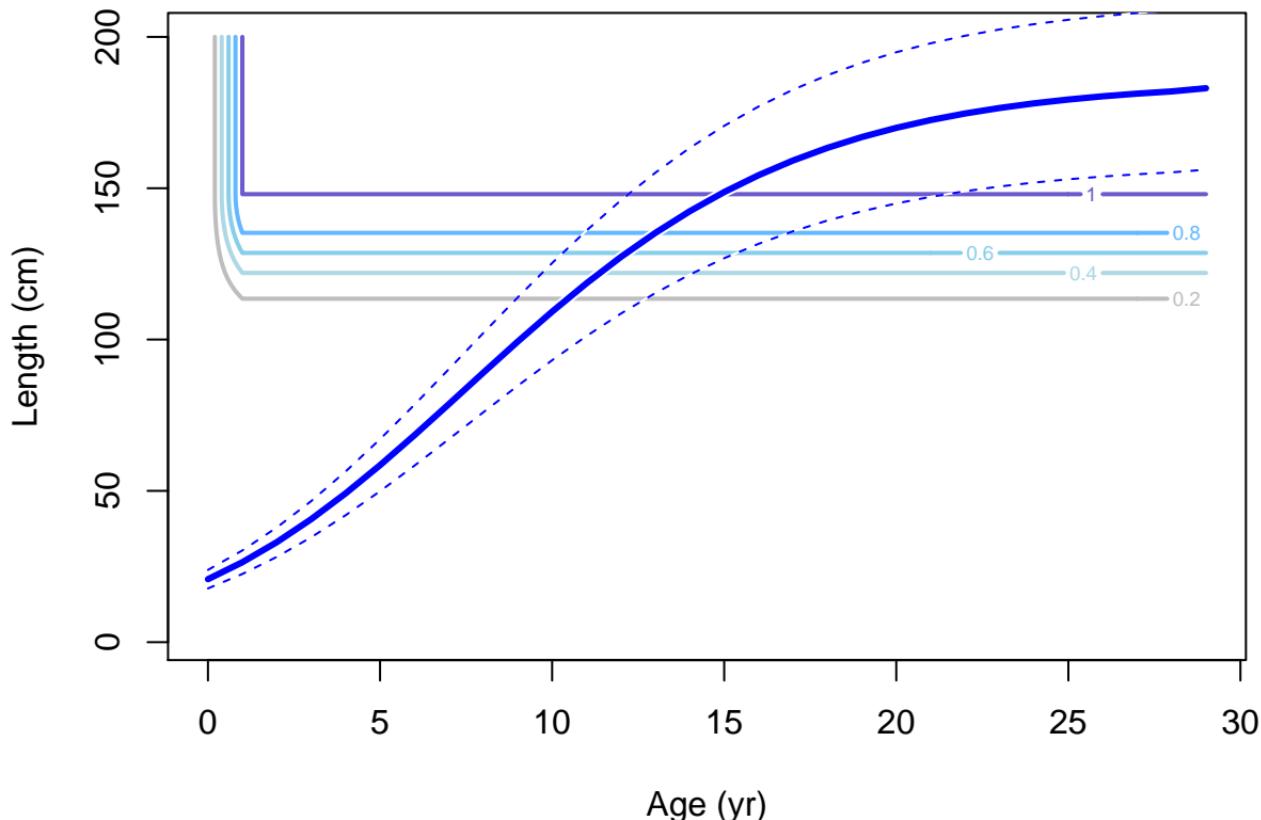
Male ending year selectivity and growth for F37-LL_E_Q14w



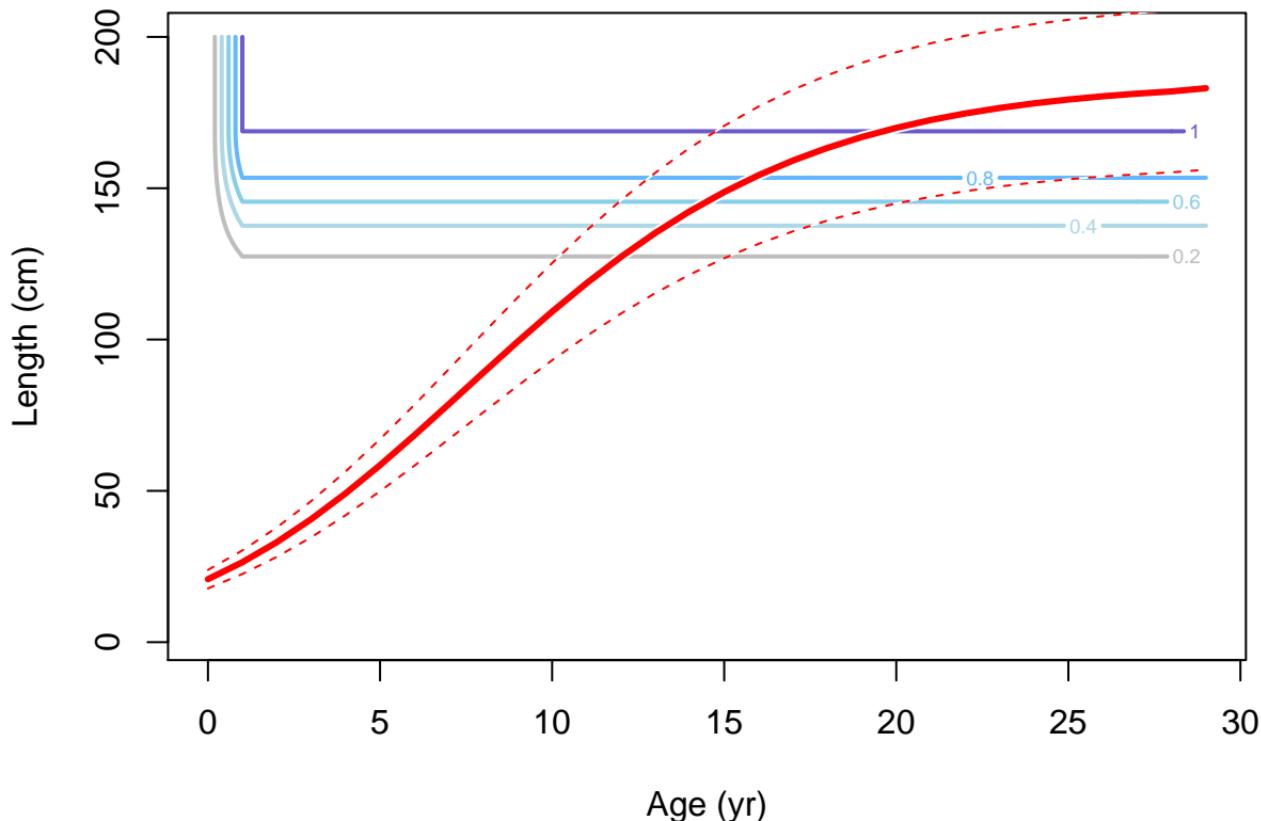
Female ending year selectivity and growth for F38-LL_W_Q23w



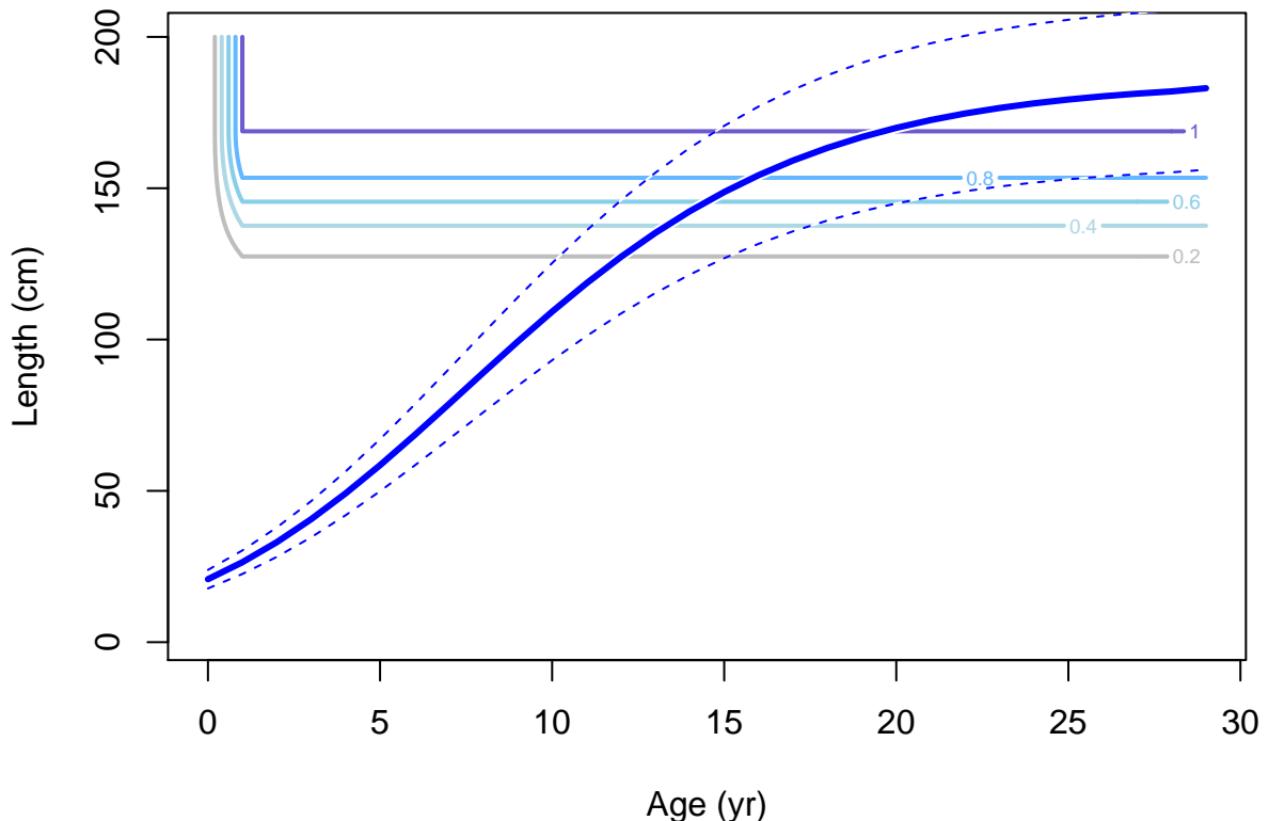
Male ending year selectivity and growth for F38-LL_W_Q23w



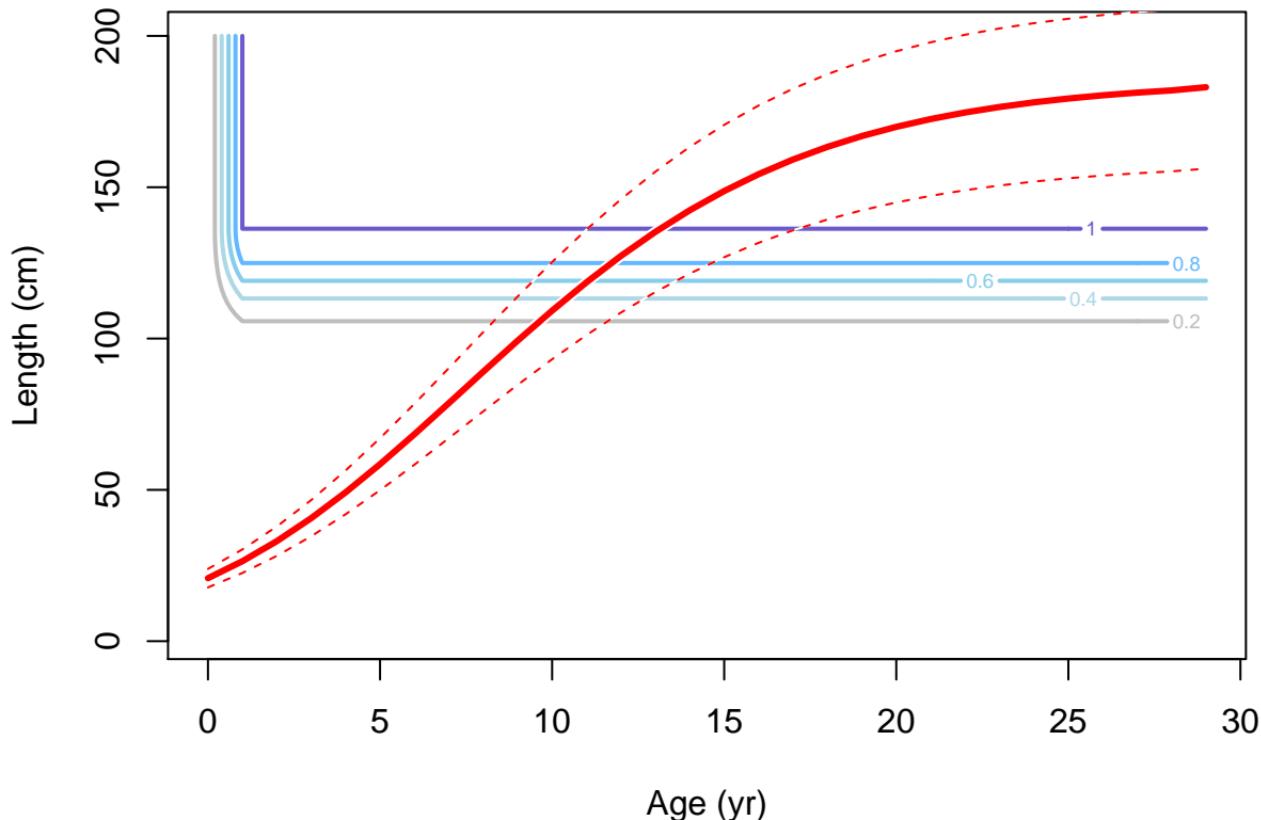
Female ending year selectivity and growth for F39-LL_C_Q23w



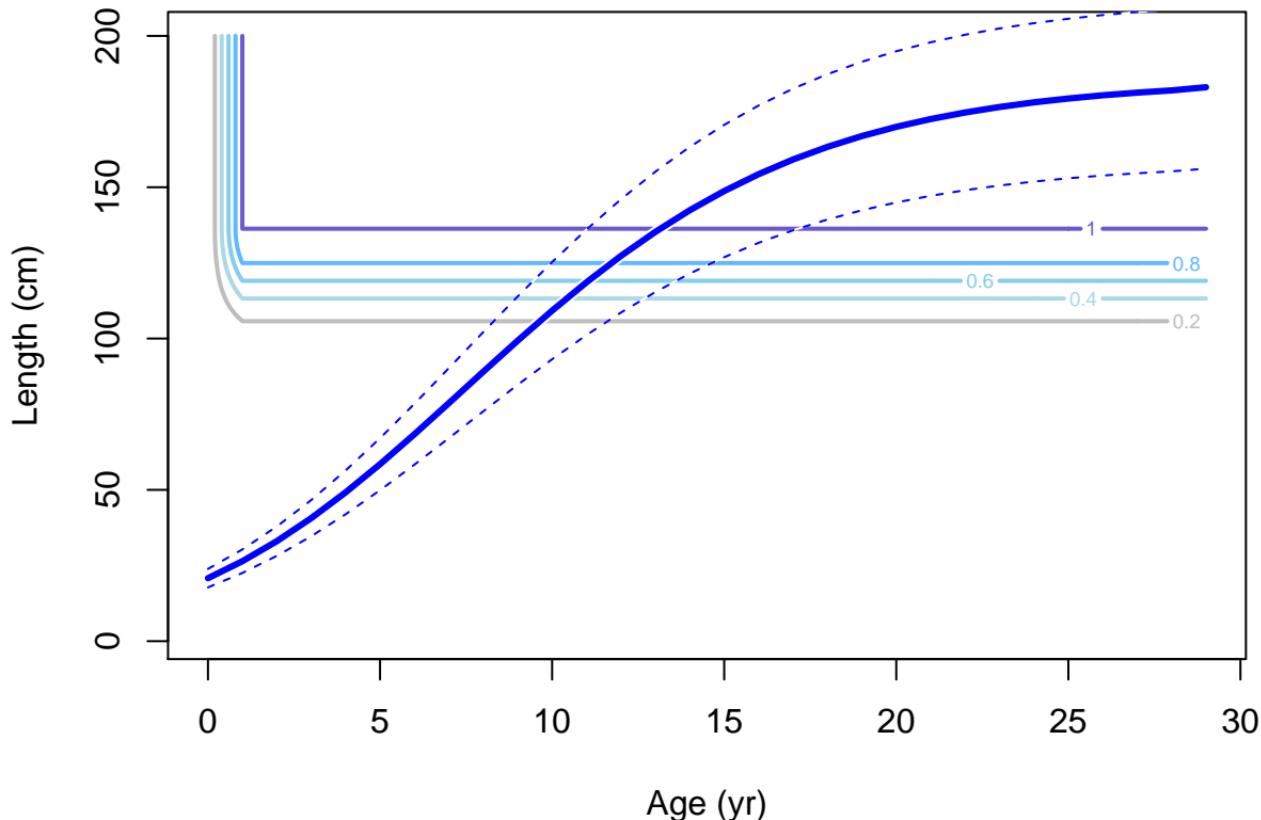
Male ending year selectivity and growth for F39-LL_C_Q23w



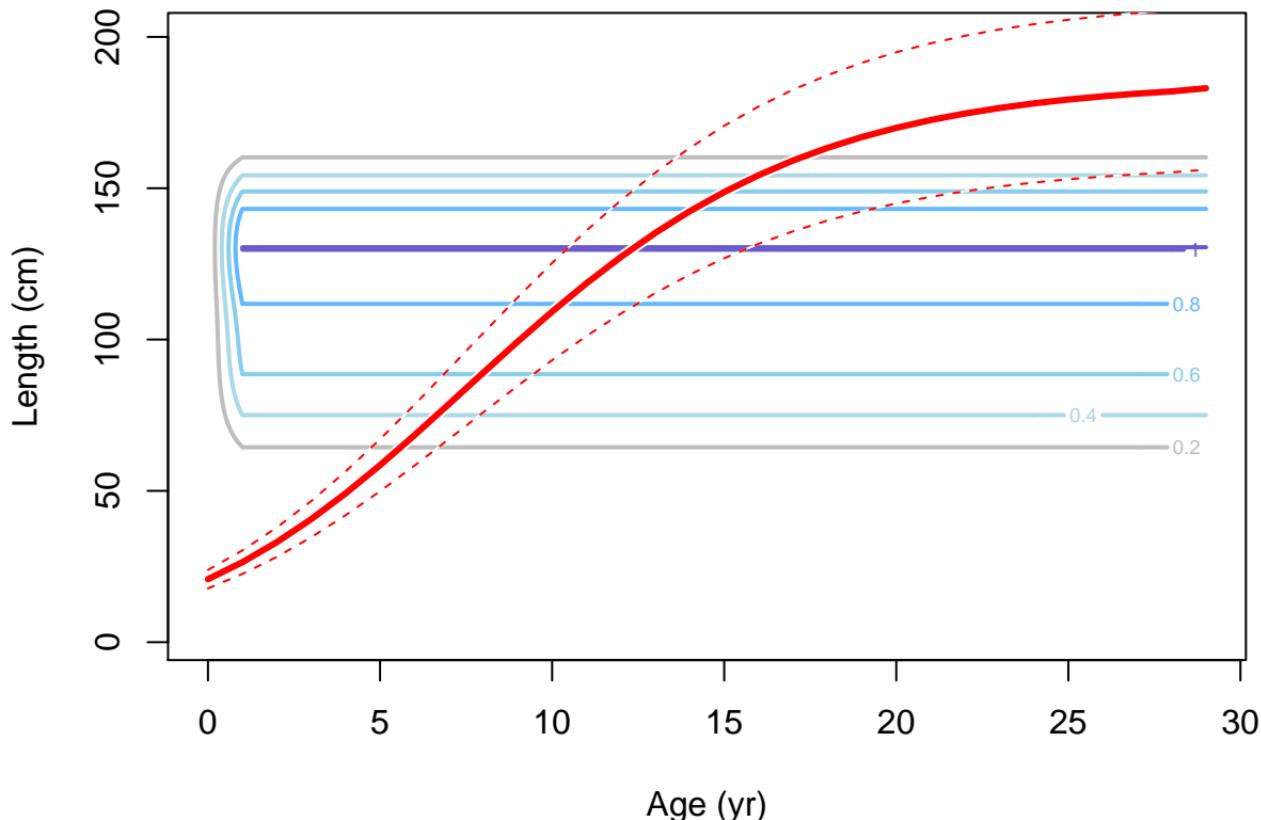
Female ending year selectivity and growth for F40-LL_E_Q23w



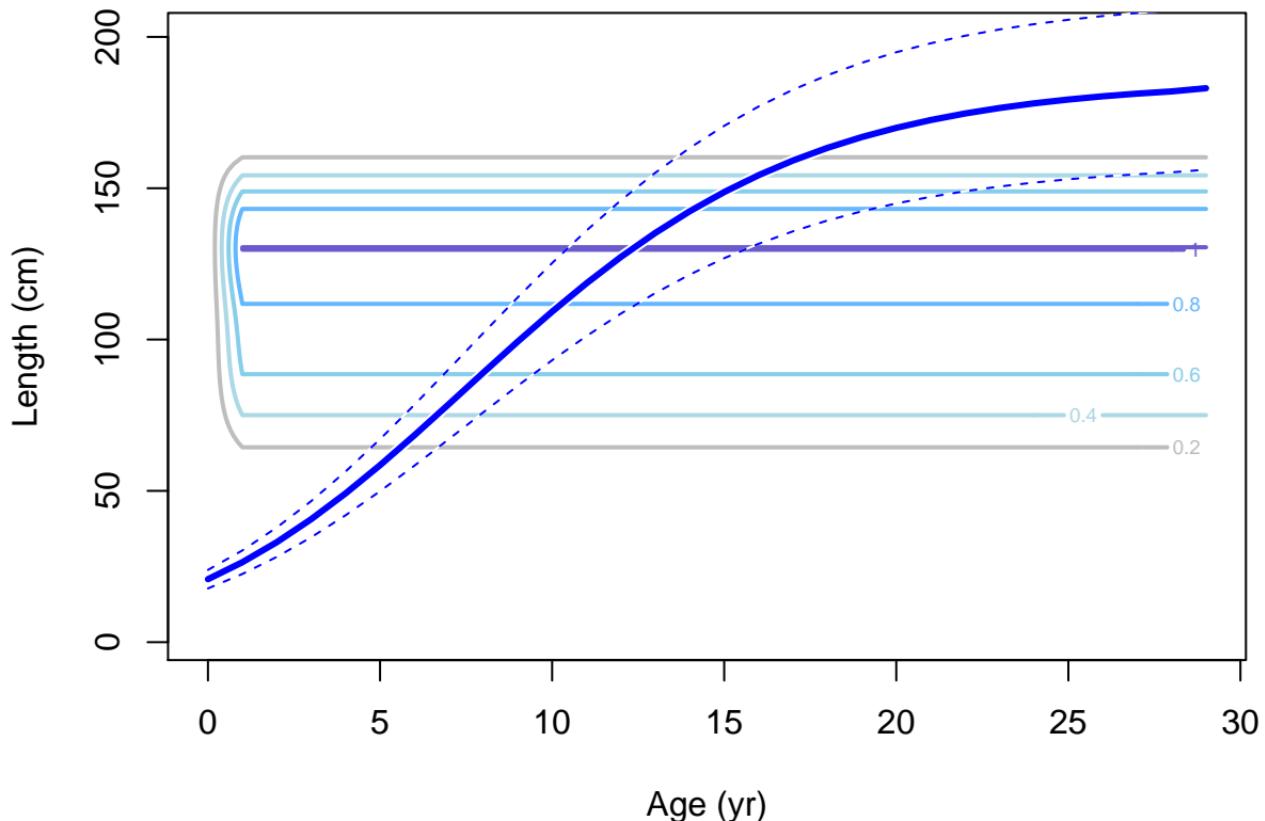
Male ending year selectivity and growth for F40-LL_E_Q23w



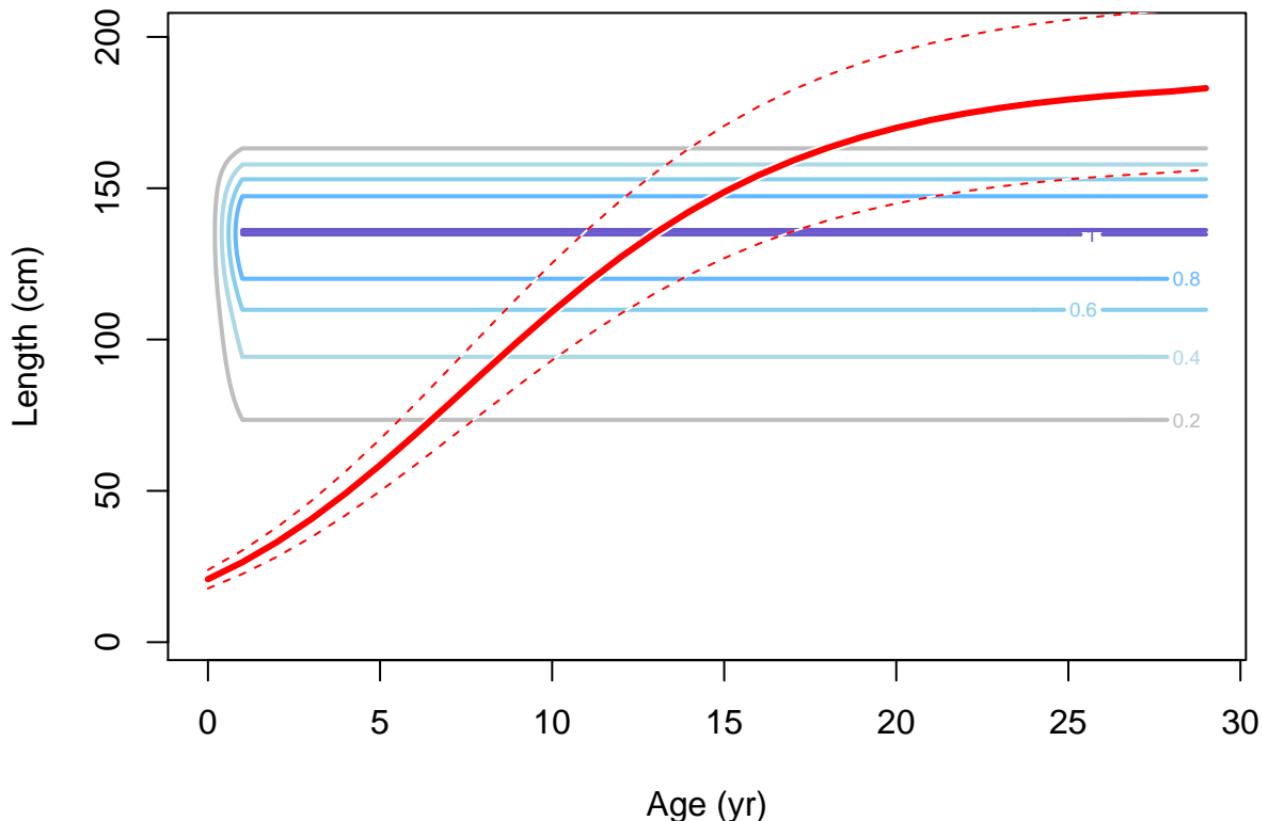
Female ending year selectivity and growth for S1-PS_DEL_VAST



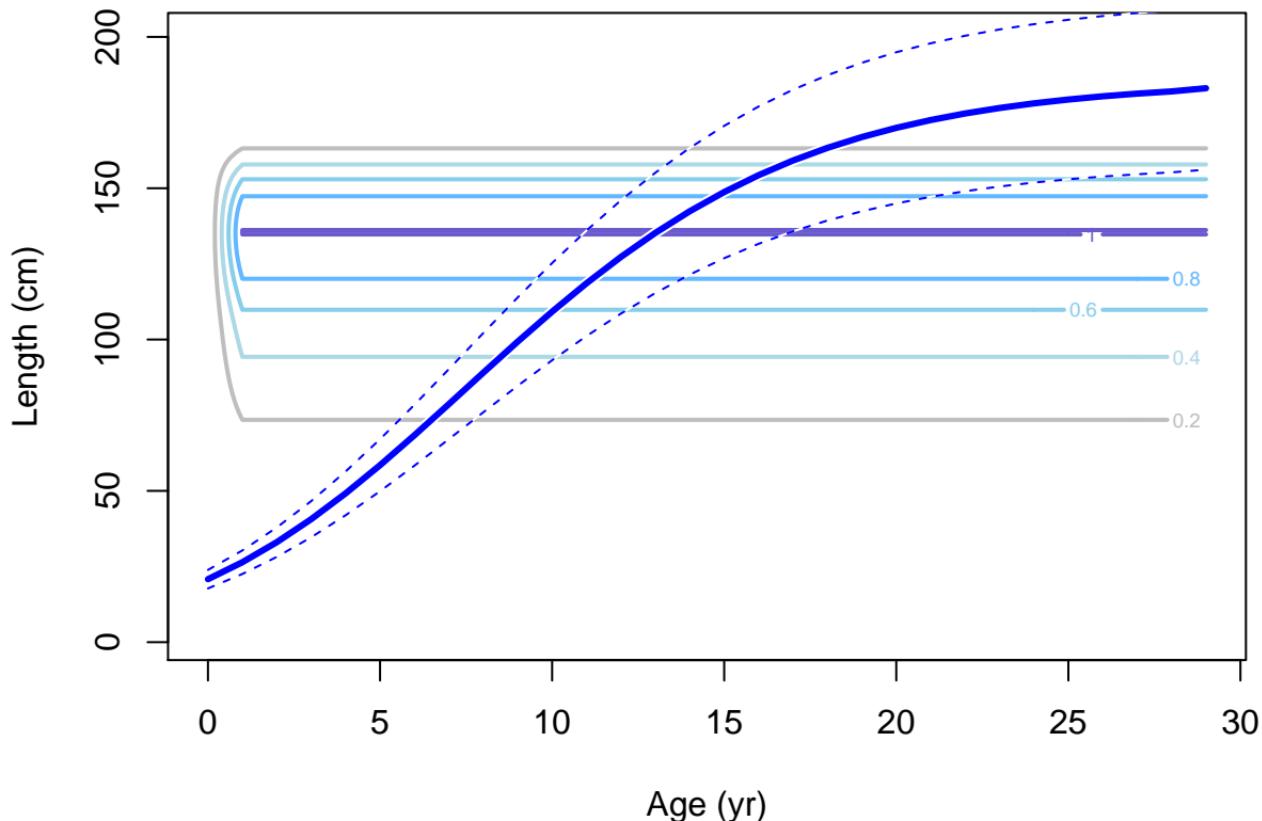
Male ending year selectivity and growth for S1-PS_DEL_VAST



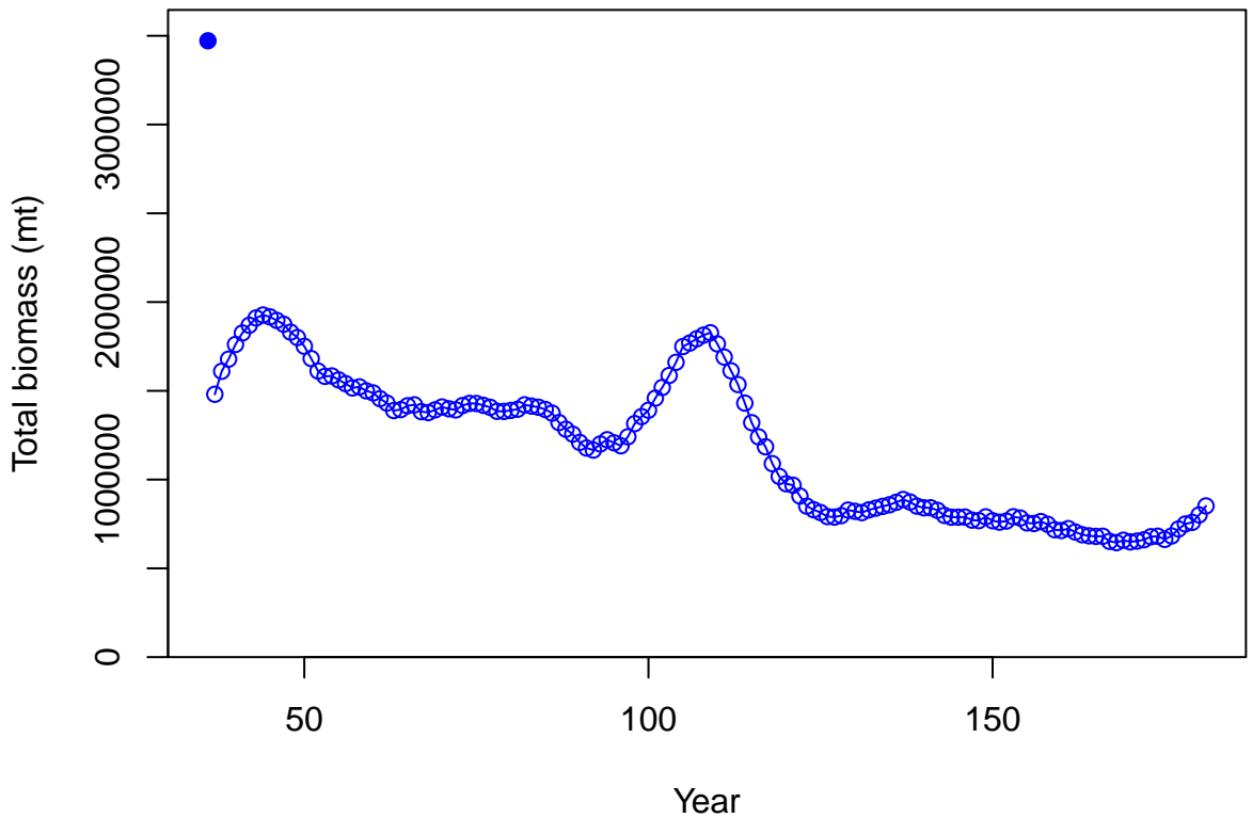
Female ending year selectivity and growth for S4-PS_late_VAST



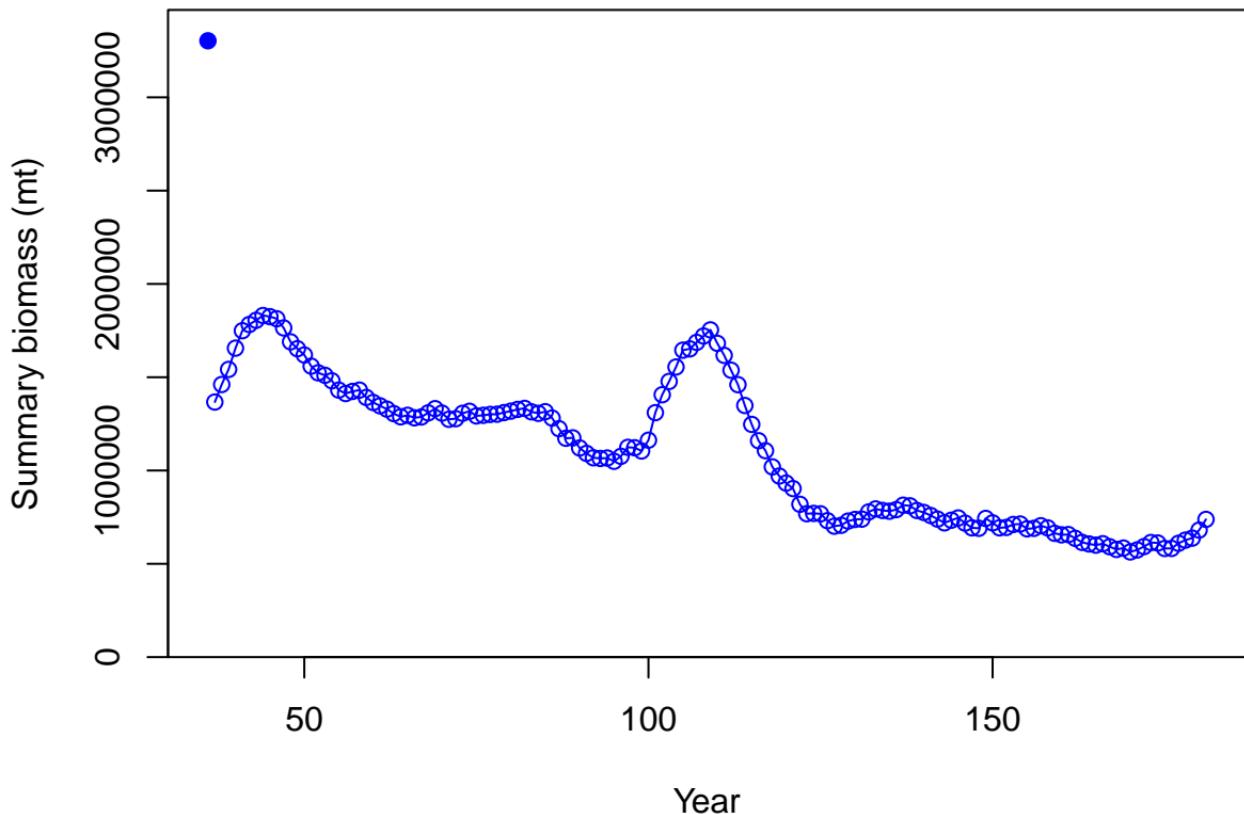
Male ending year selectivity and growth for S4-PS_late_VAST



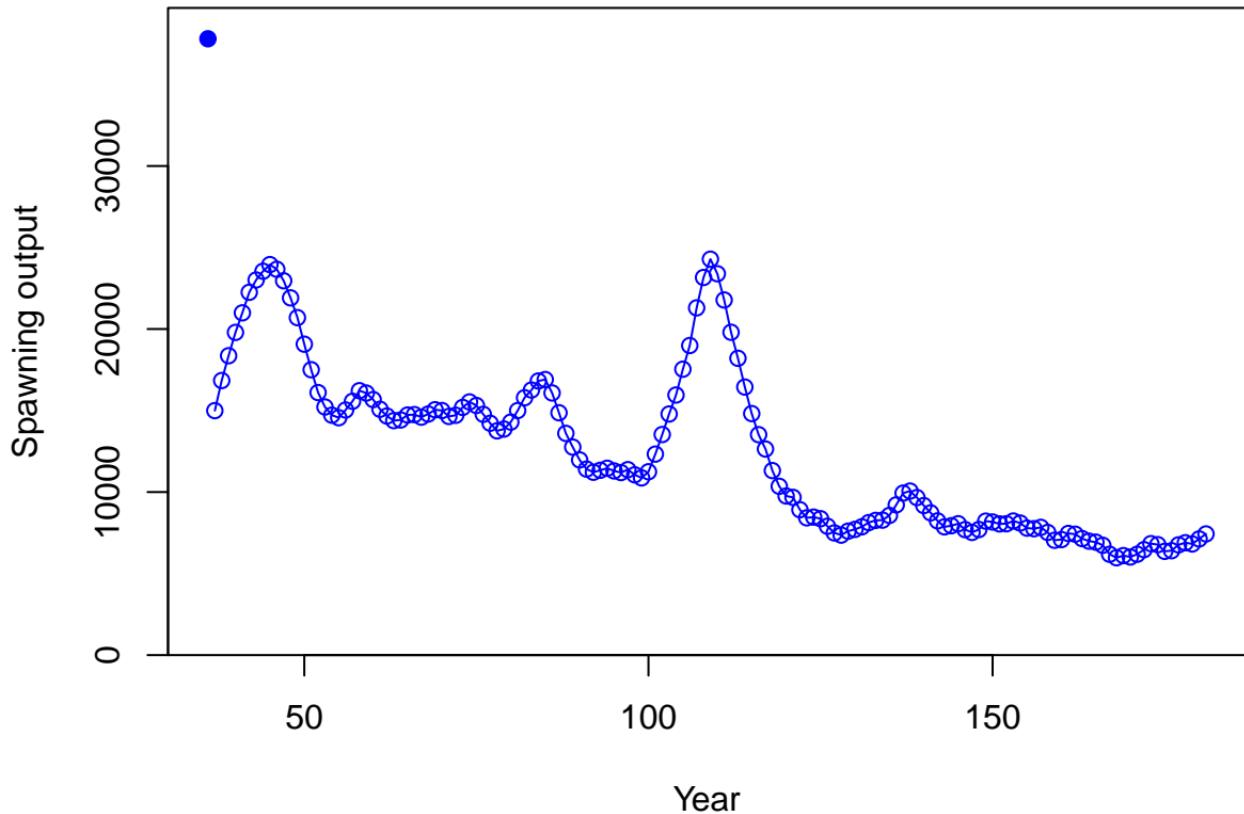
Total biomass (mt)



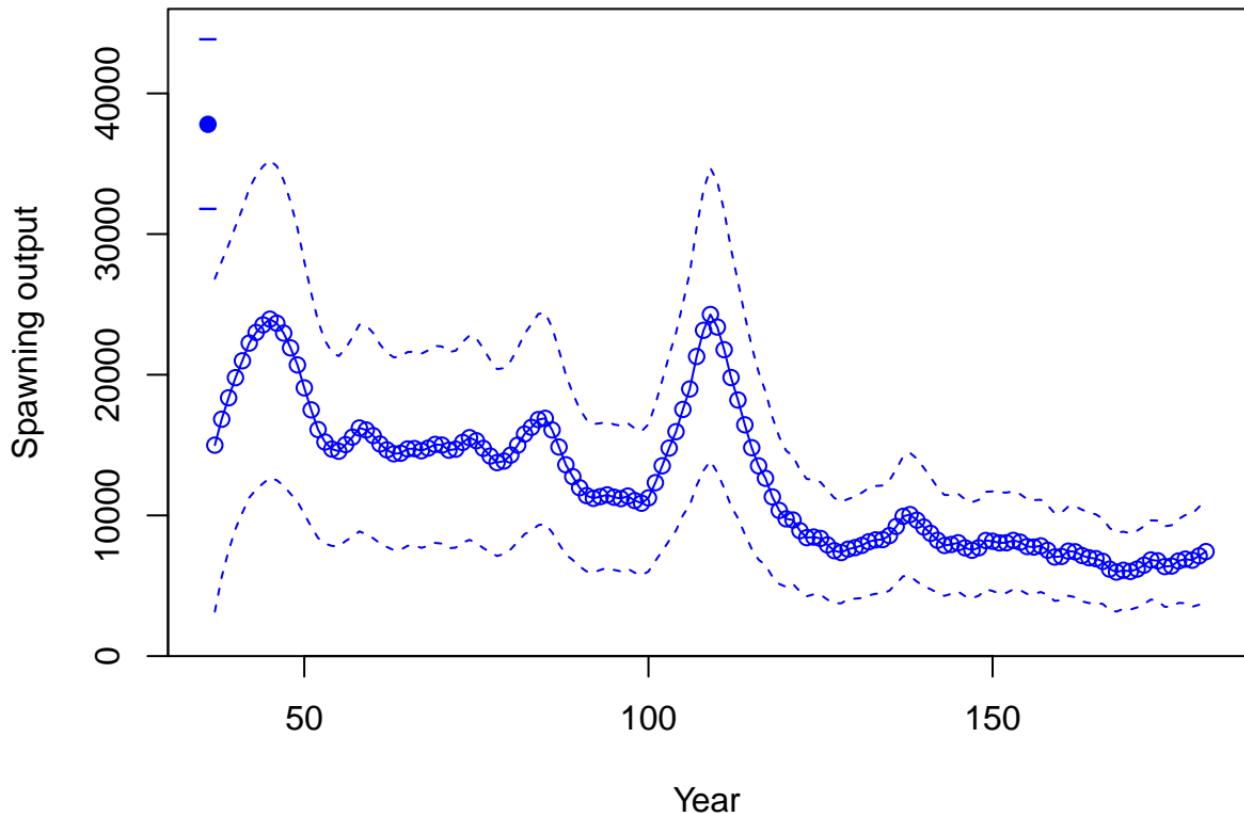
Summary biomass (mt)



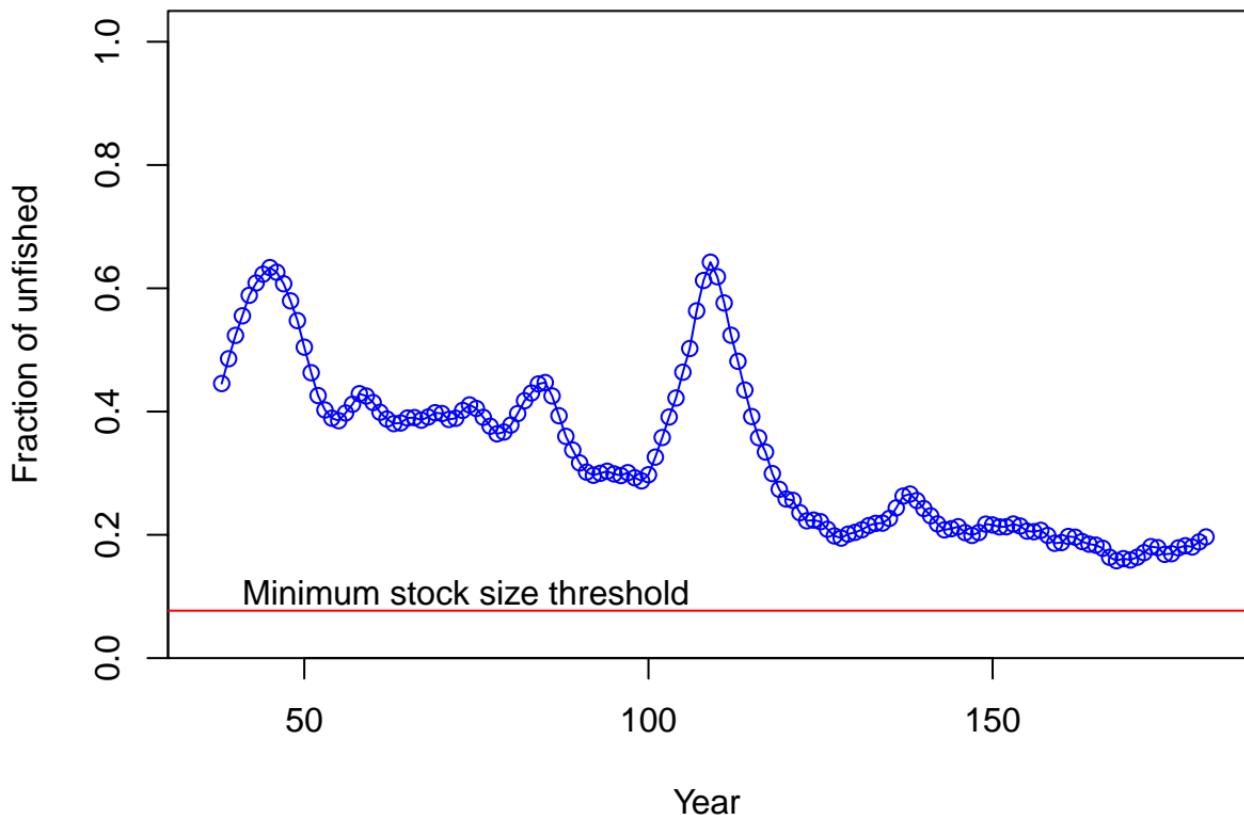
Spawning output



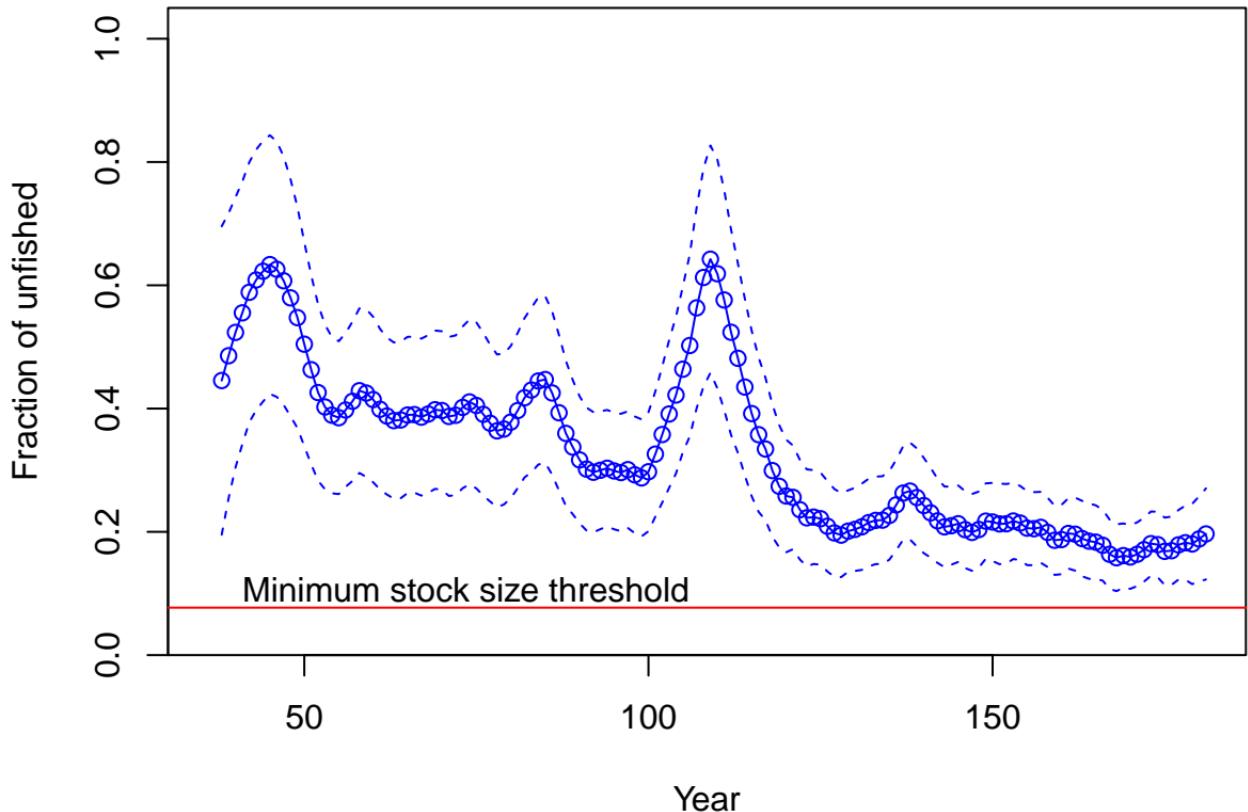
Spawning output with ~95% asymptotic intervals



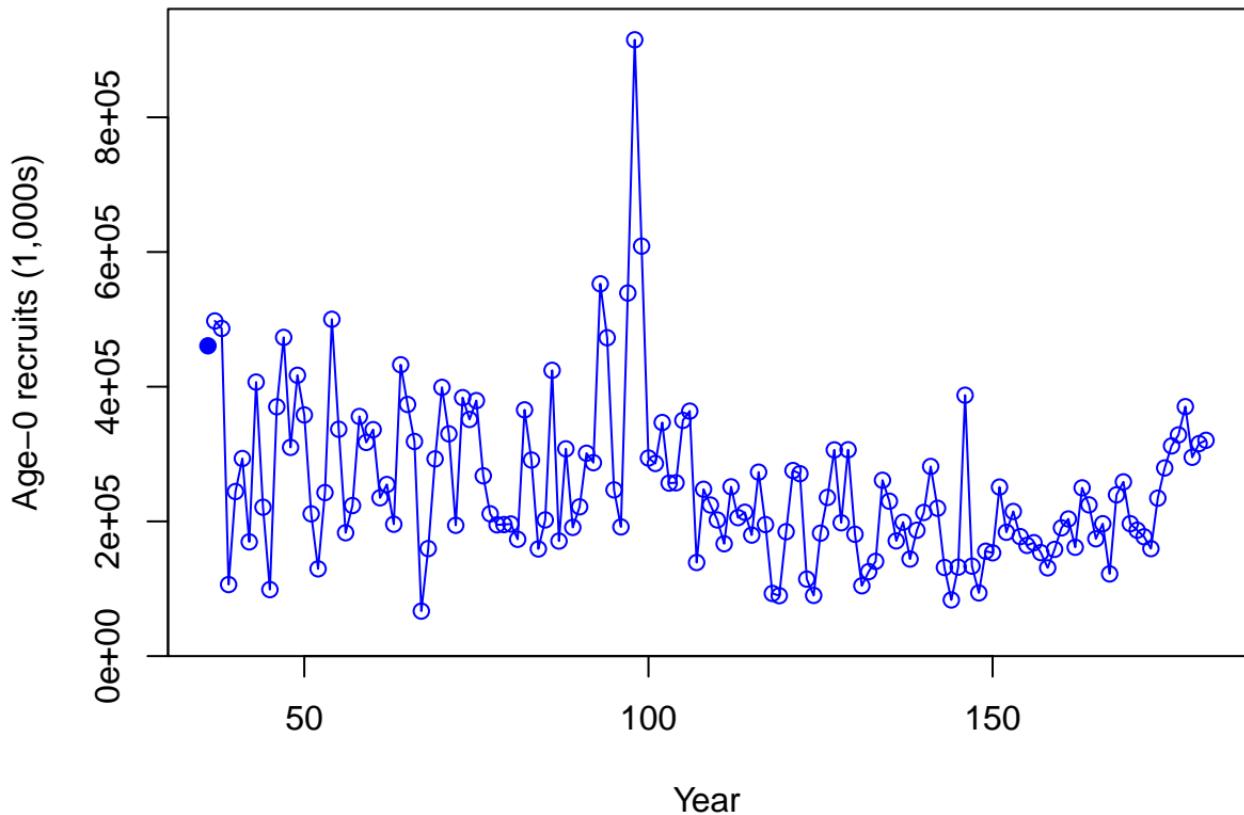
Fraction of unfished



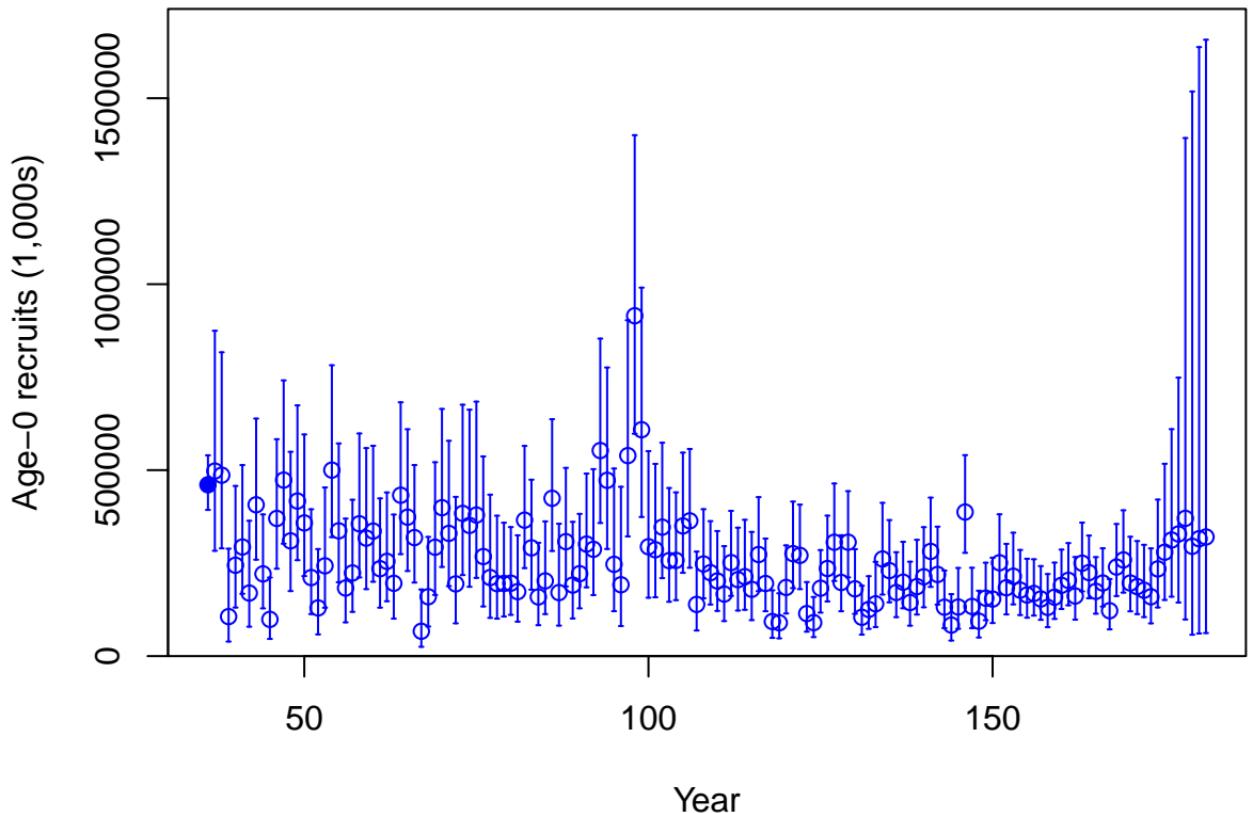
Fraction of unfished with ~95% asymptotic intervals



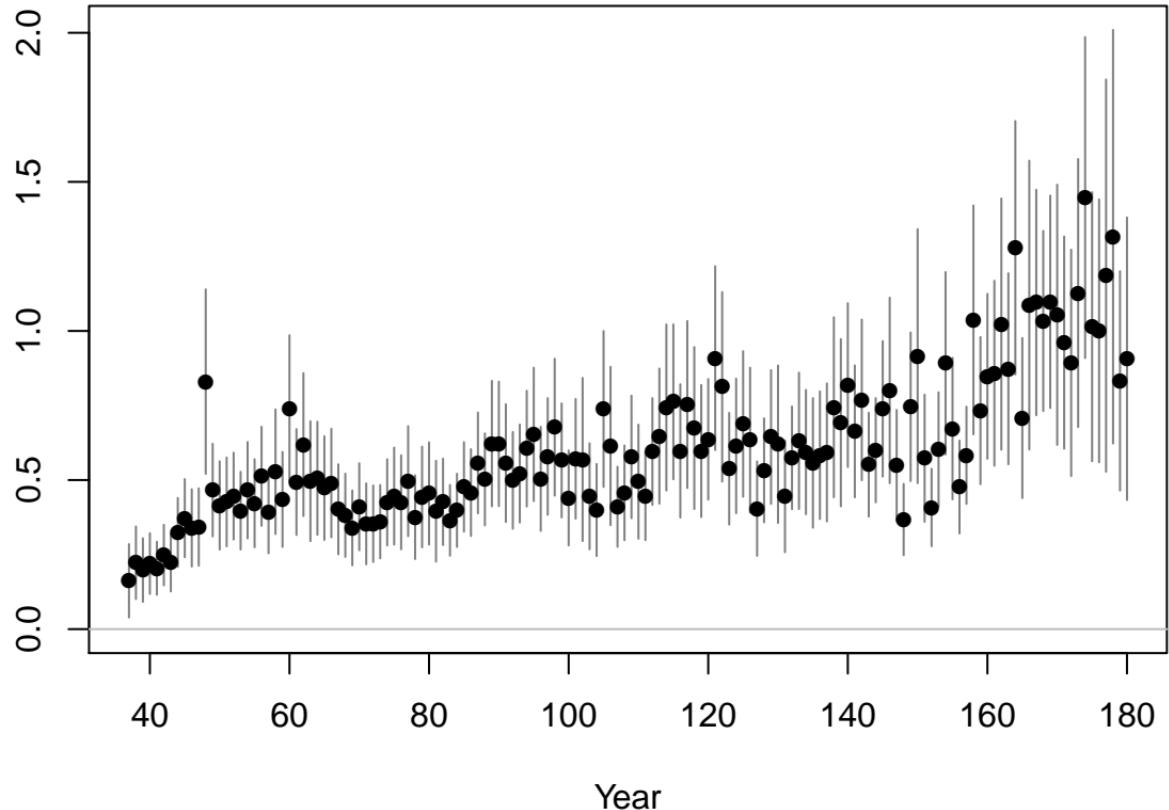
Age-0 recruits (1,000s)



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



Summary Fishing Mortality



Log recruitment deviation

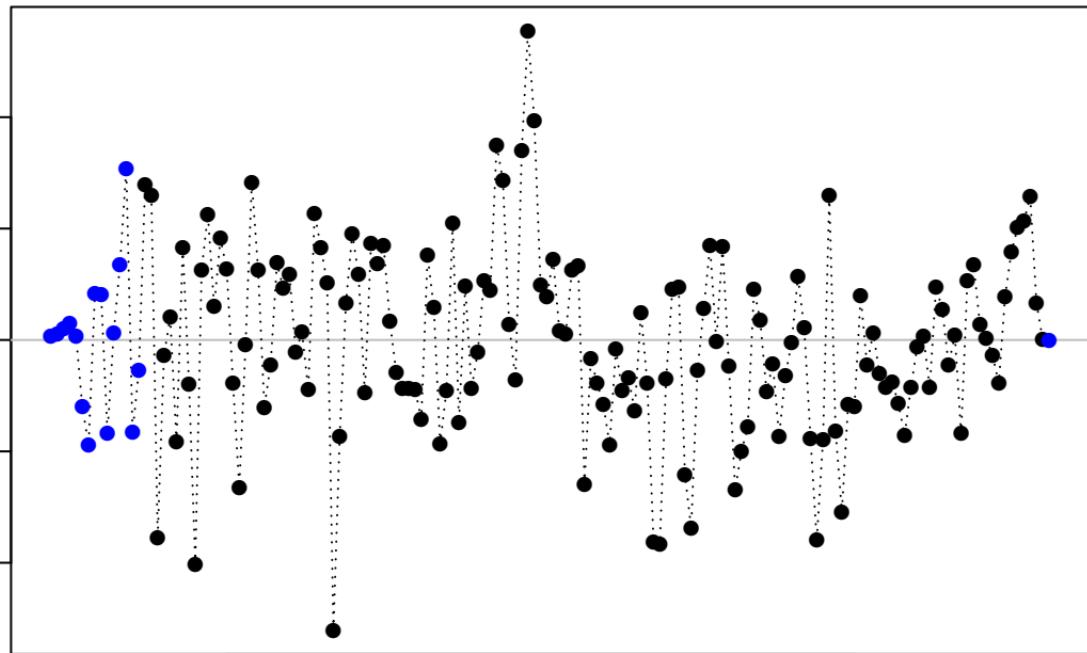
-1.0
-0.5
0.0
0.5
1.0

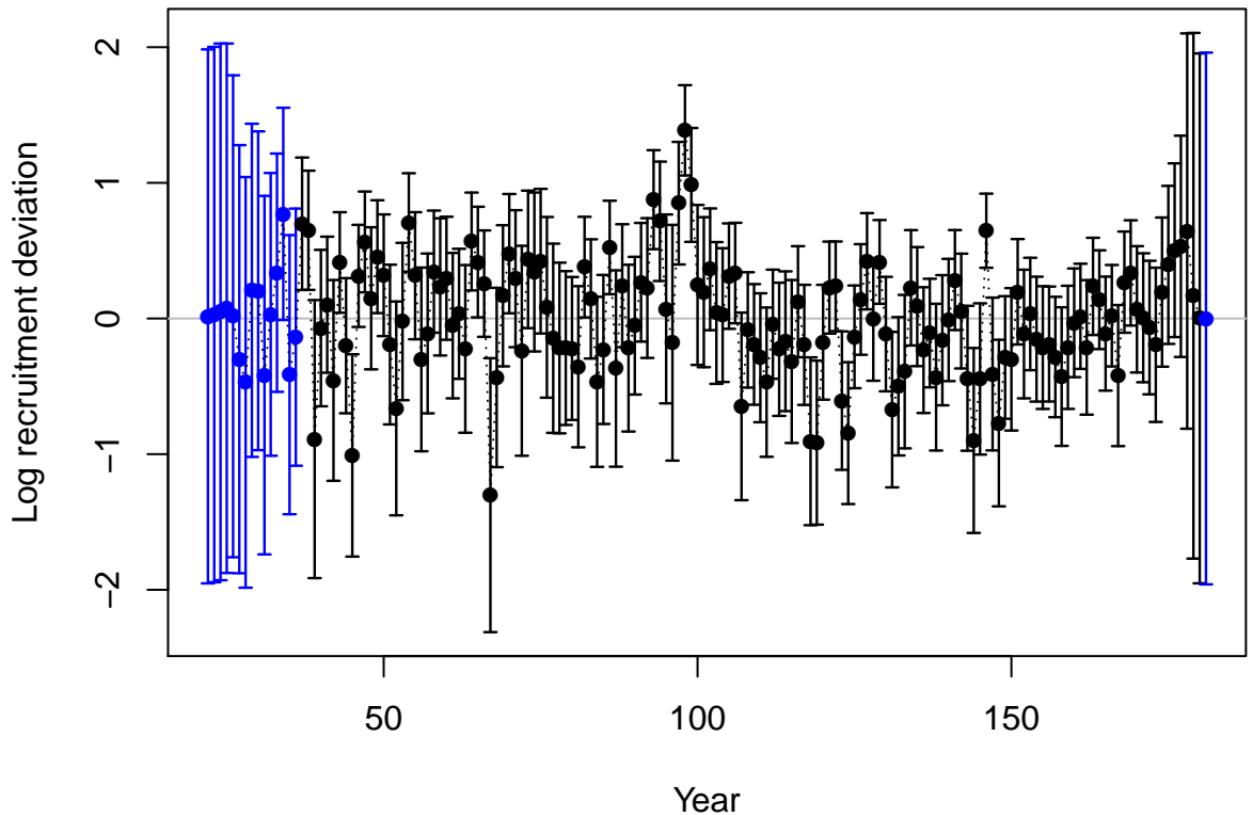
50

100

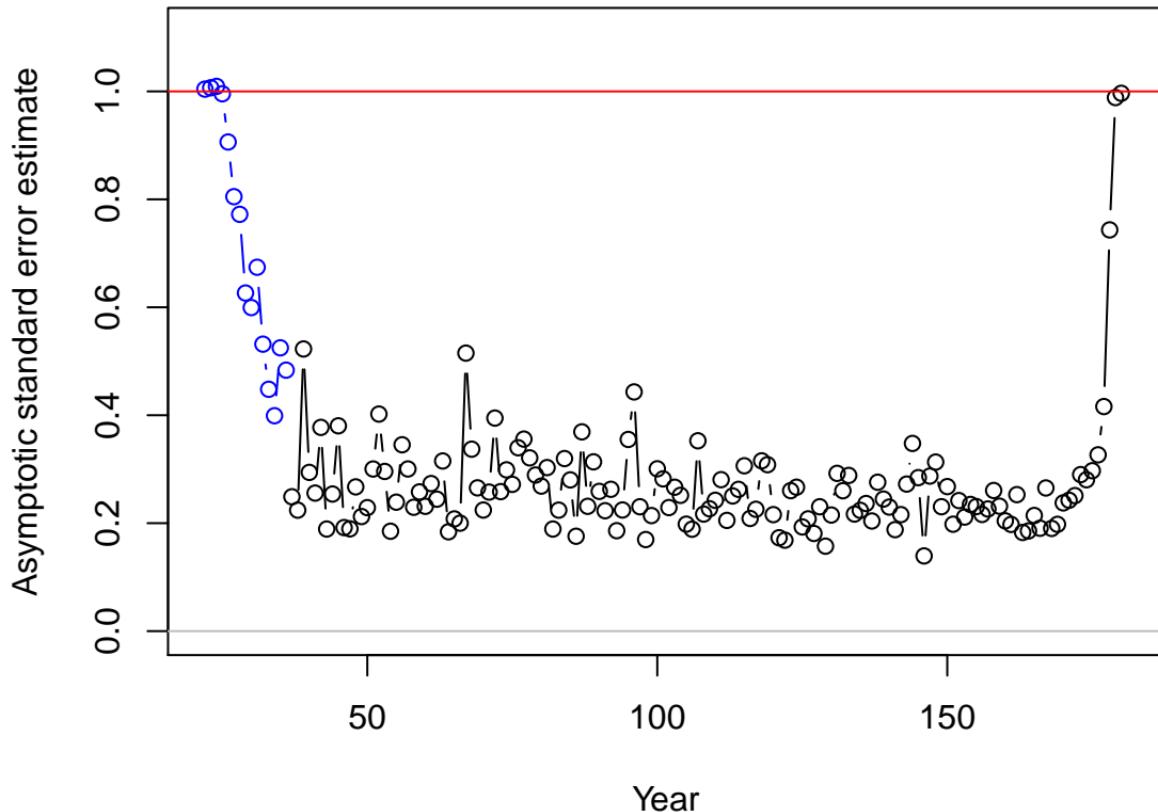
150

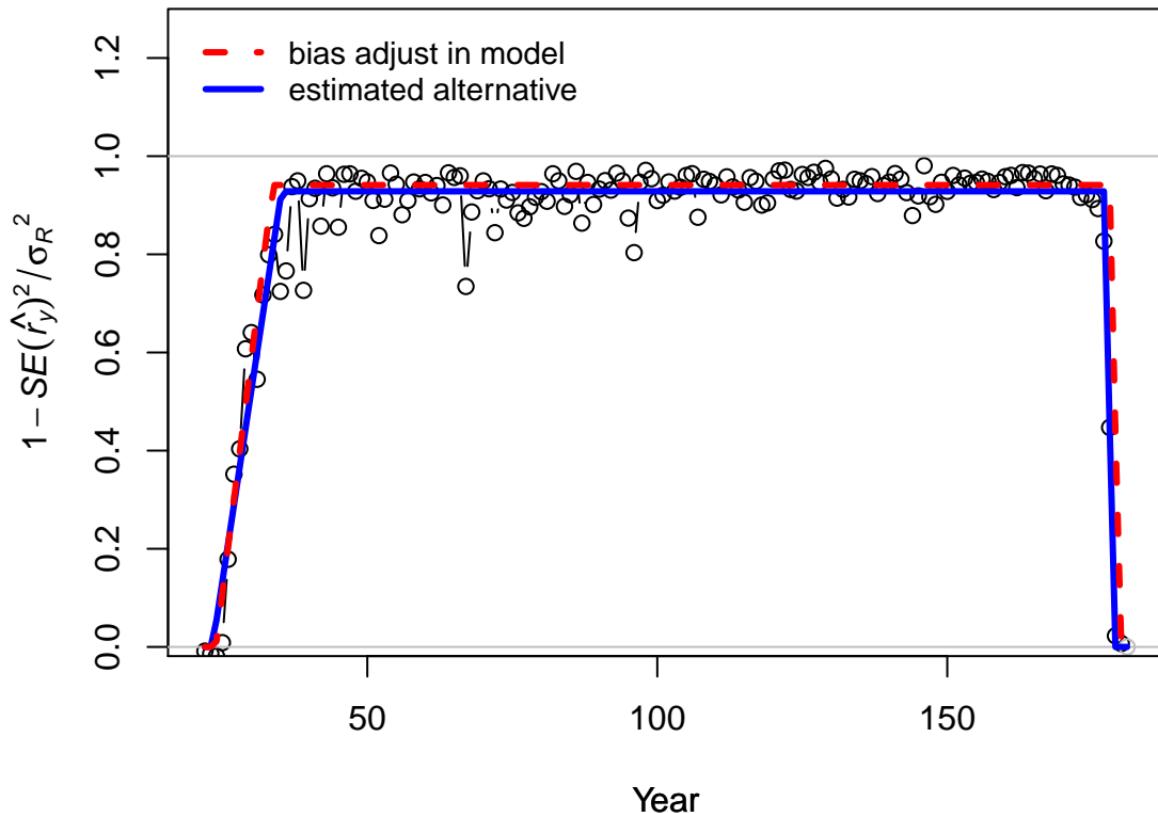
Year

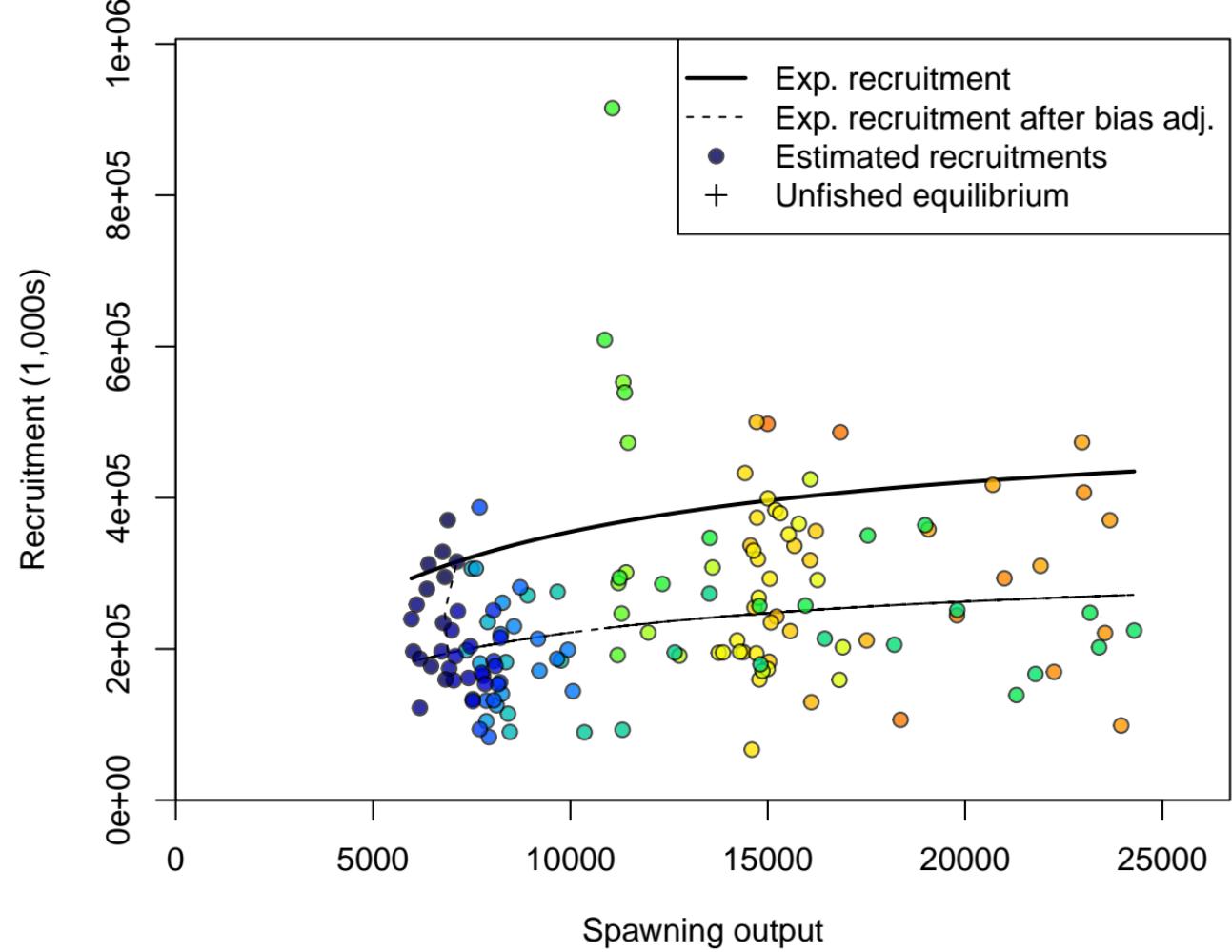


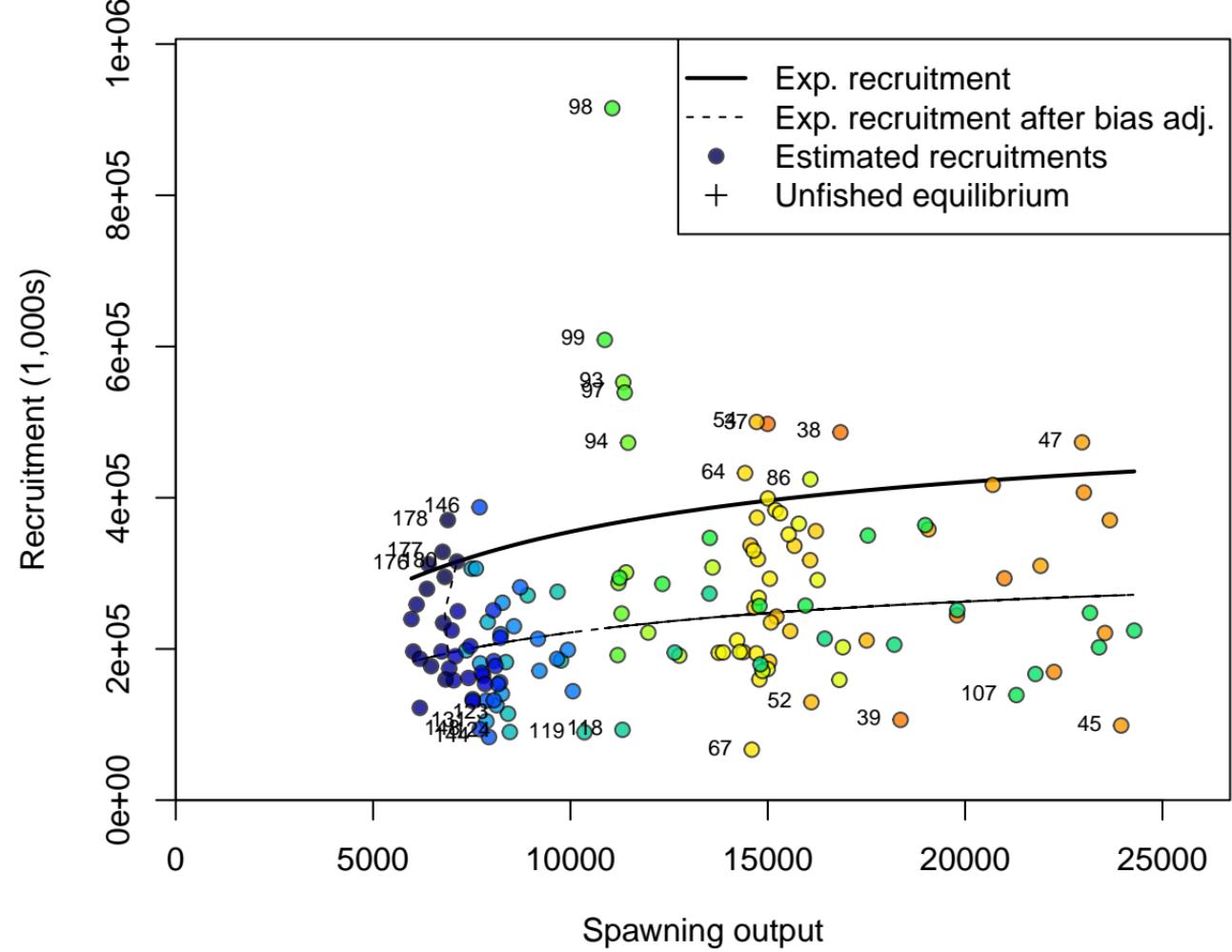


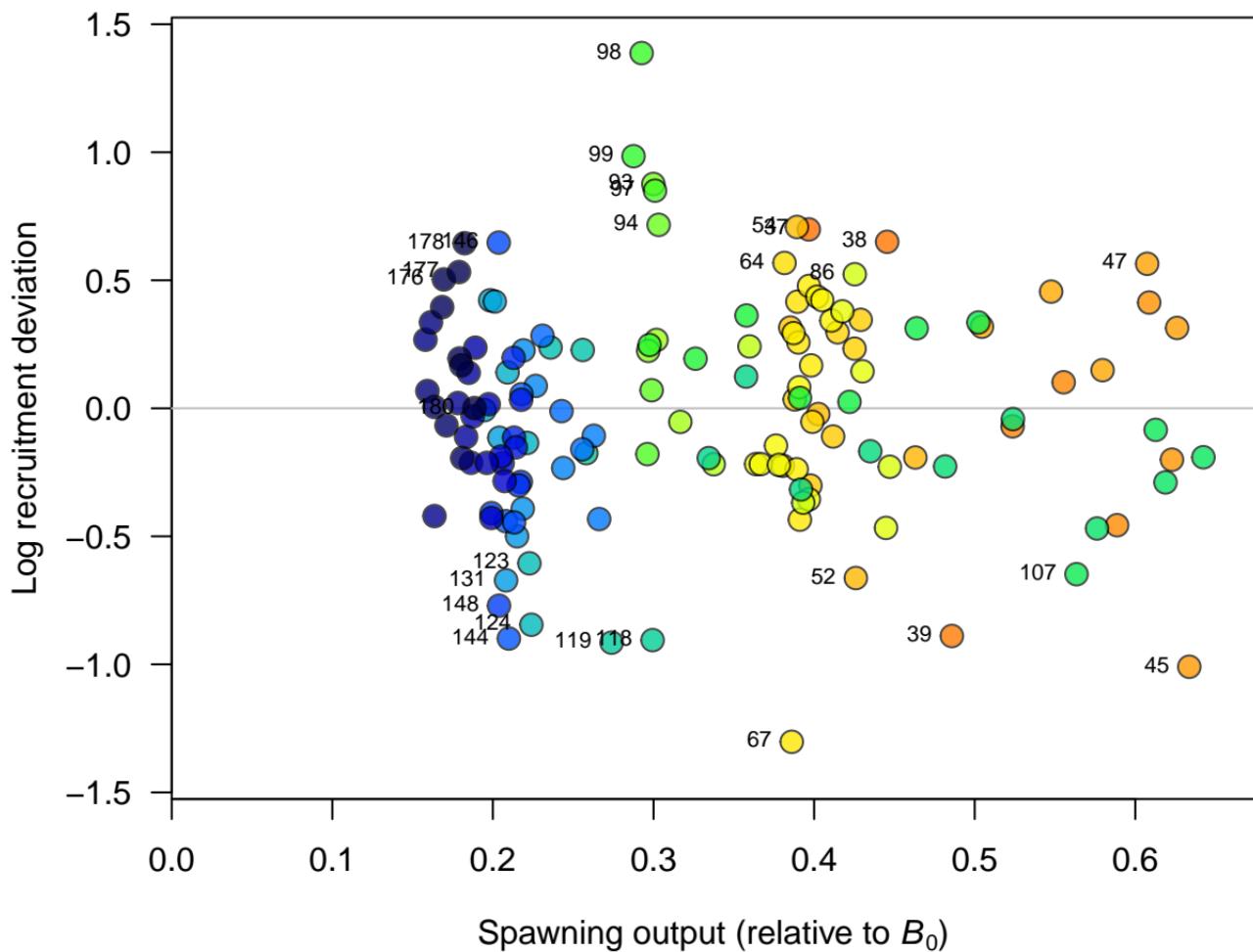
Recruitment deviation variance

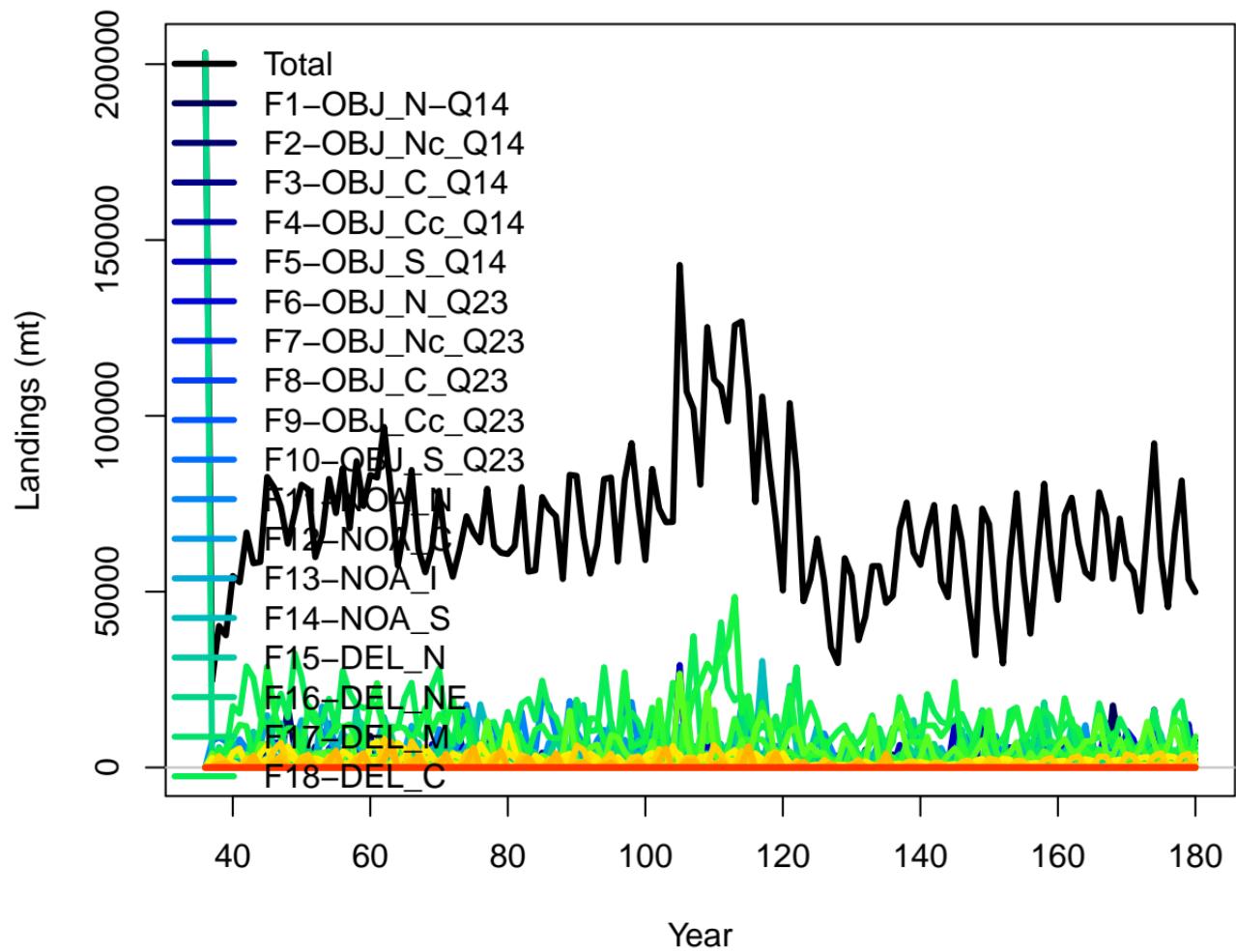


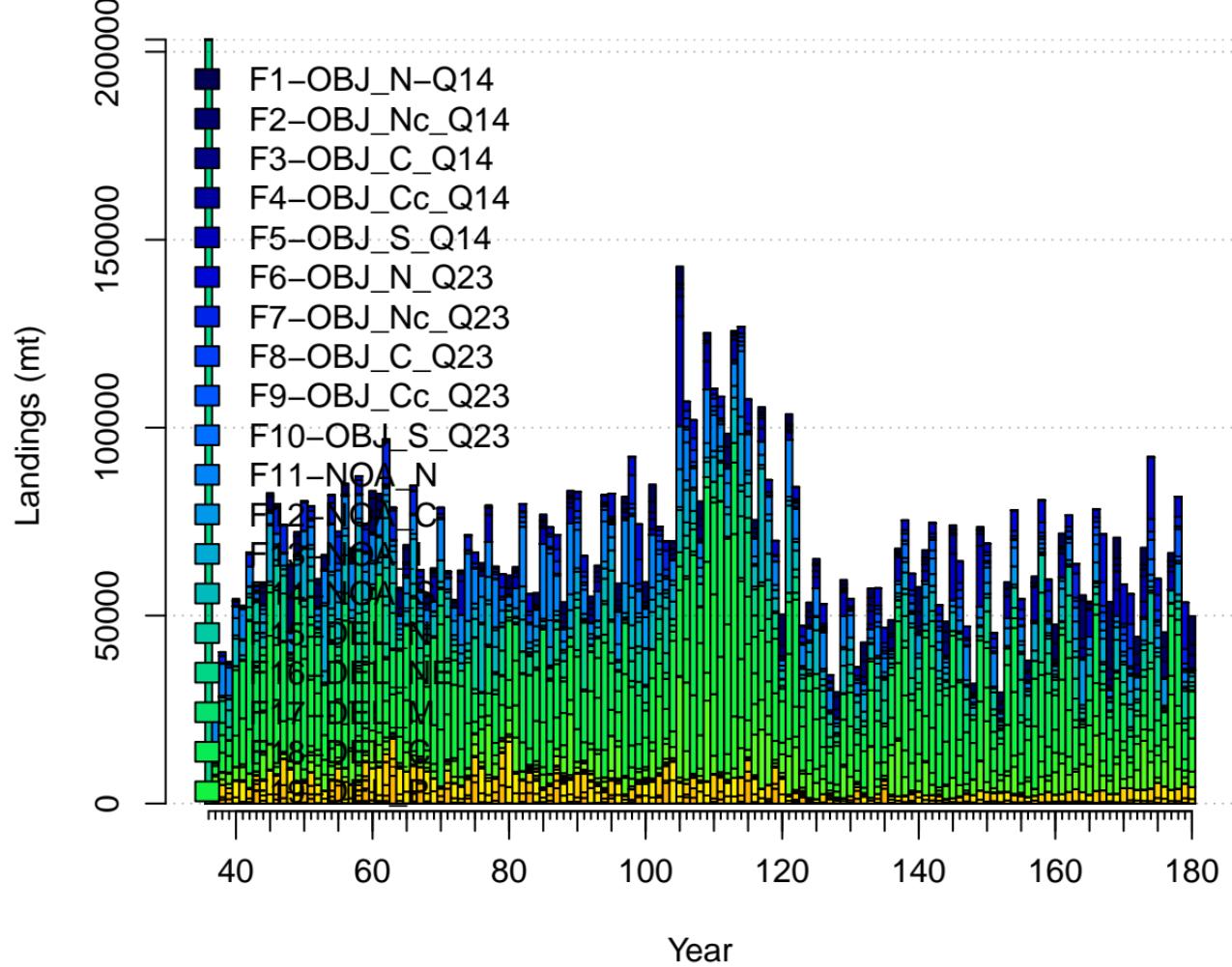




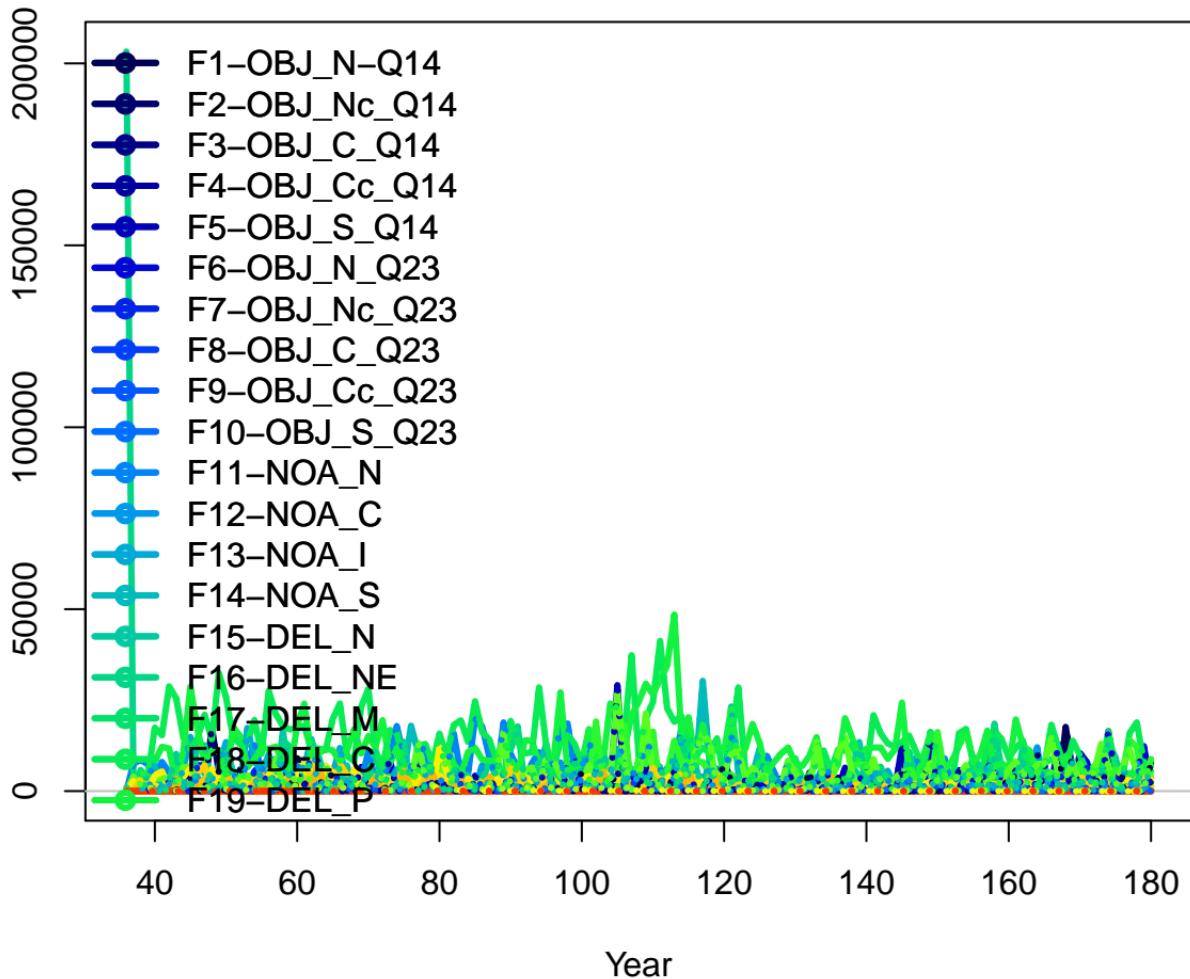


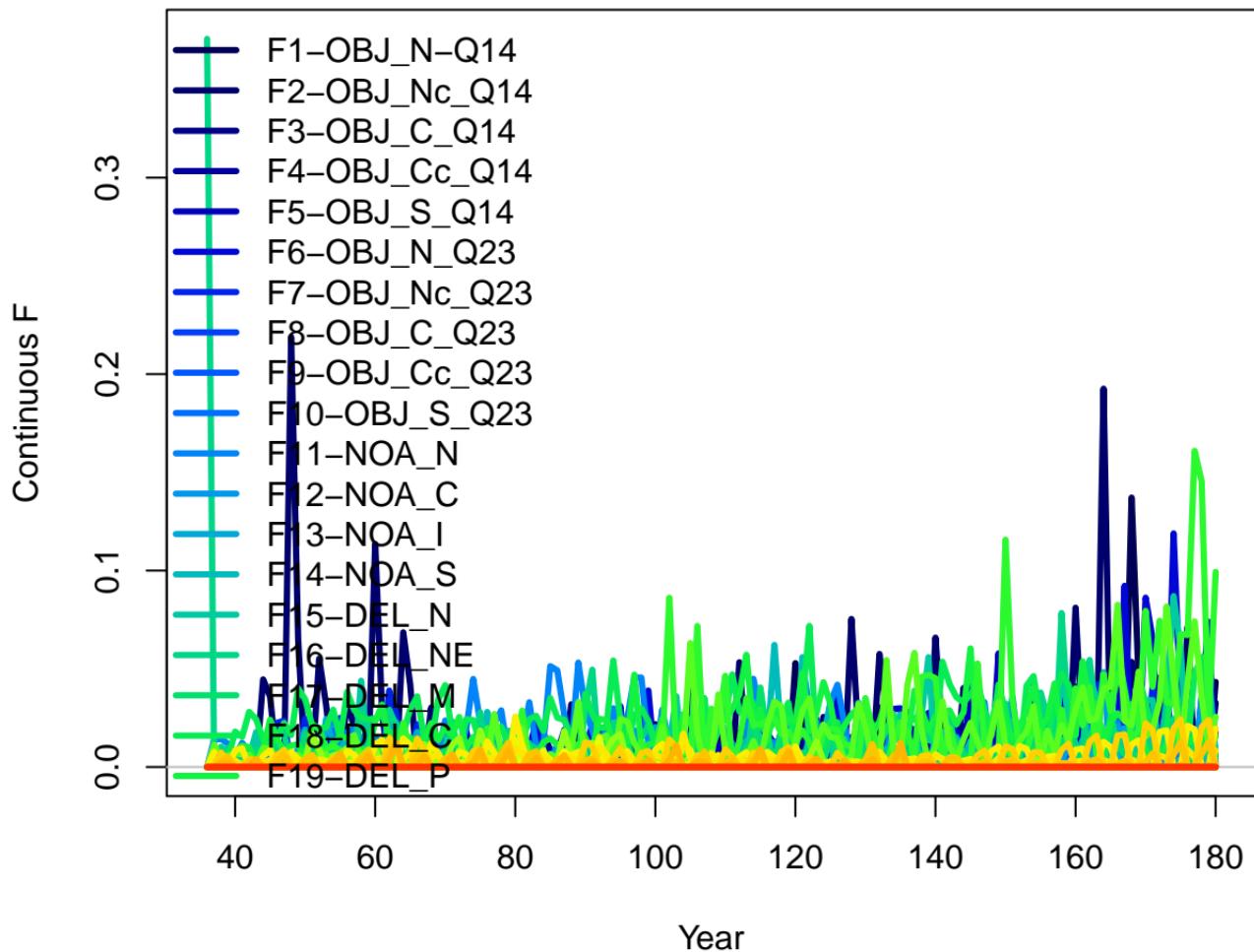


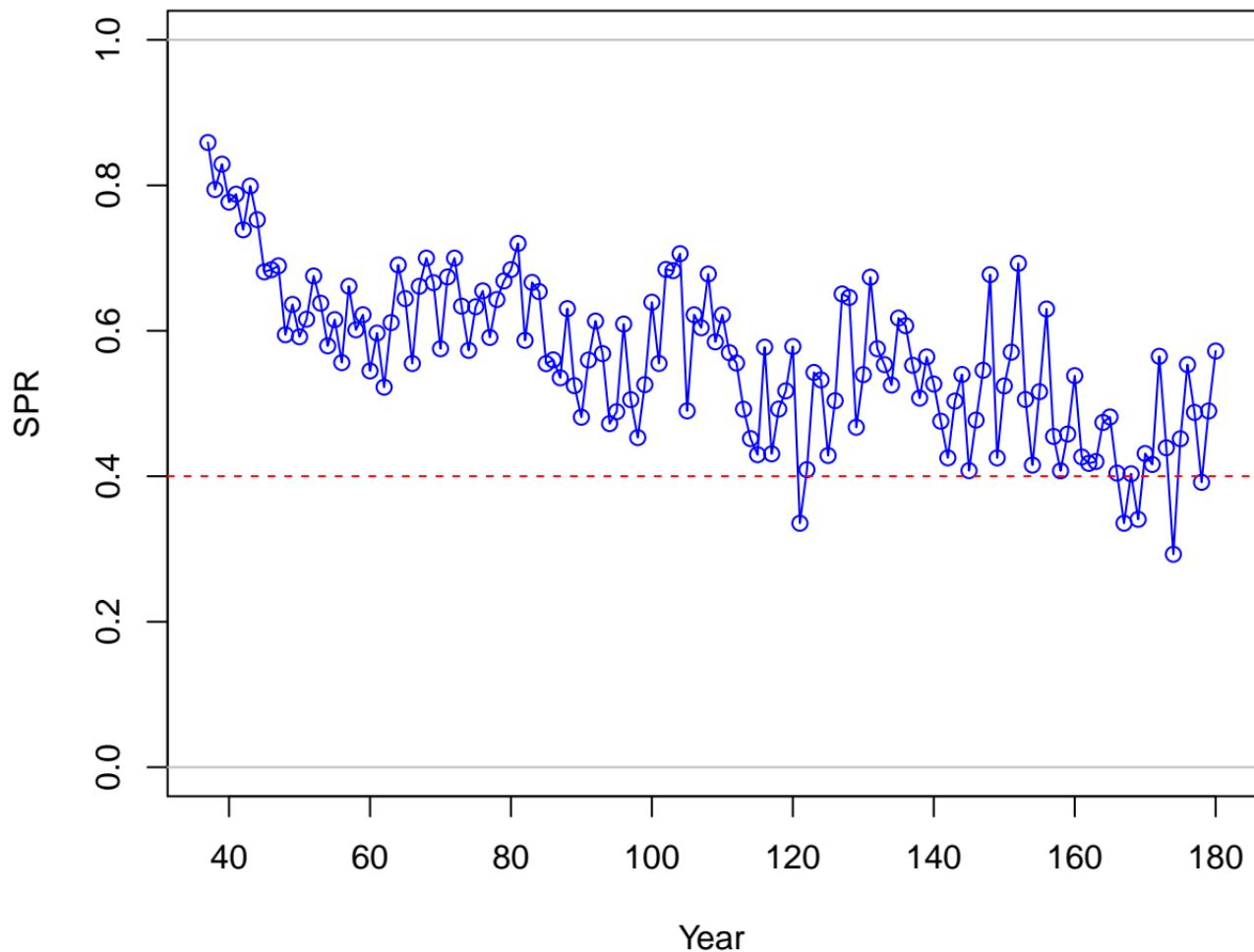


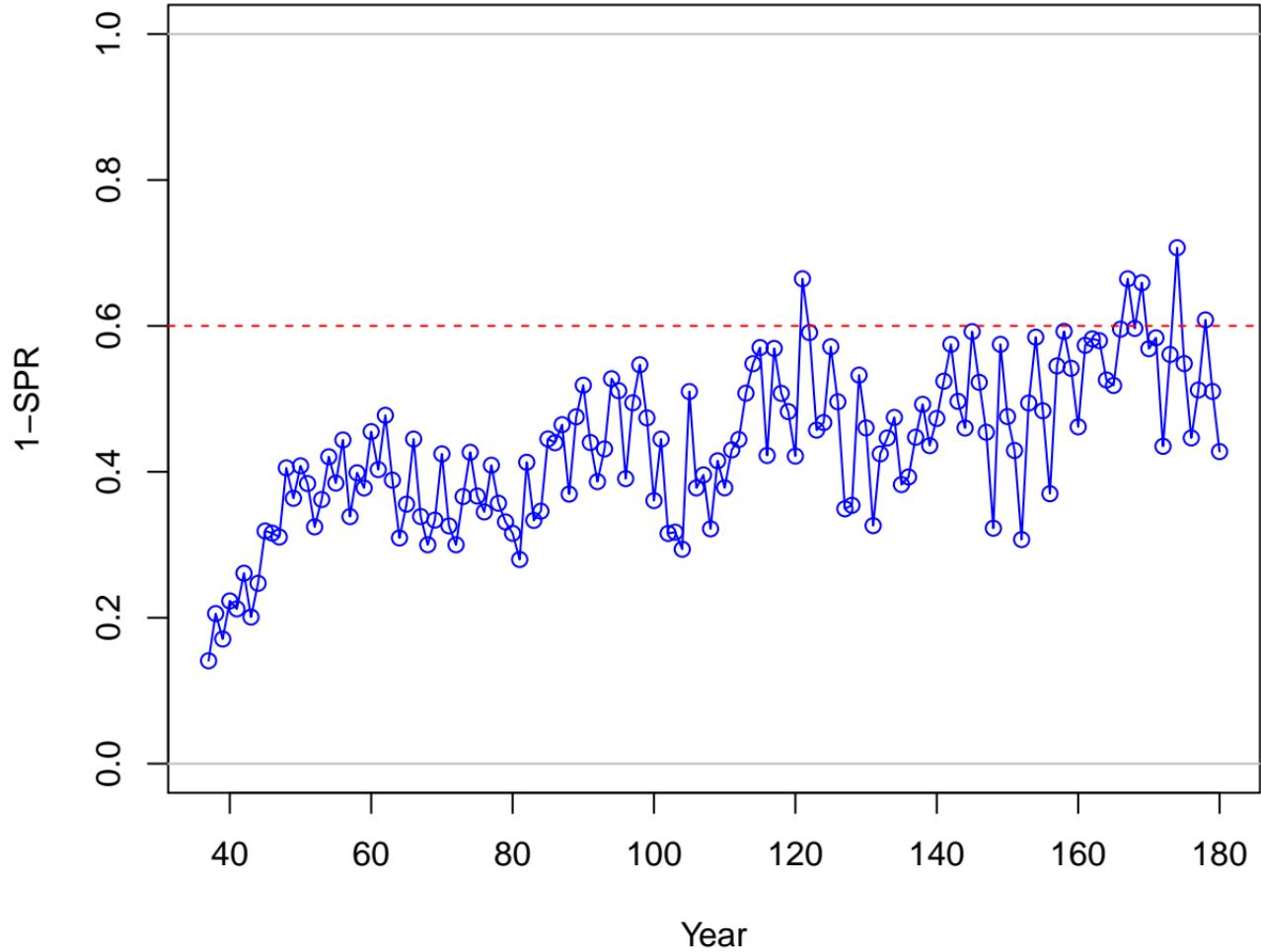


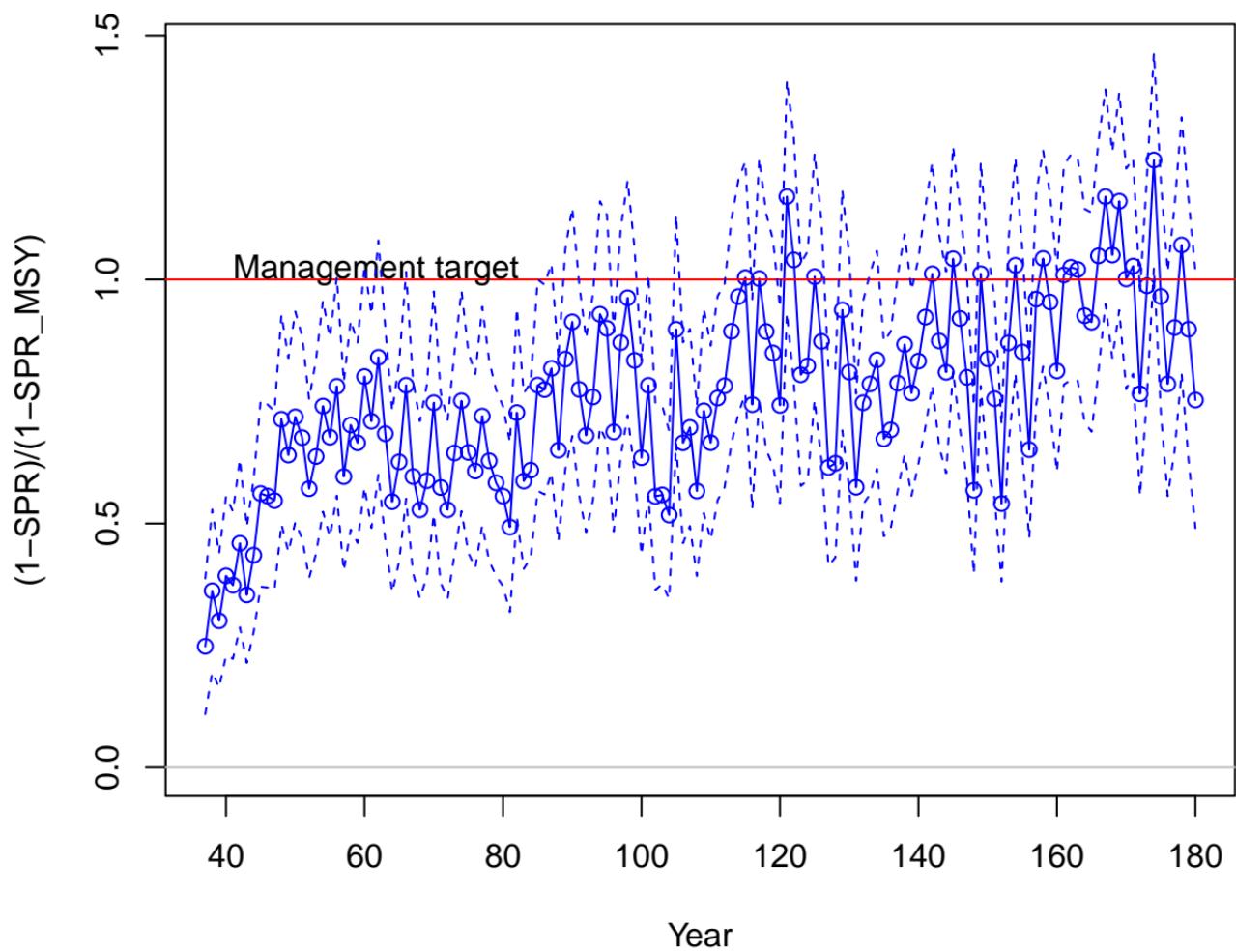
Observed and expected Landings (mt)

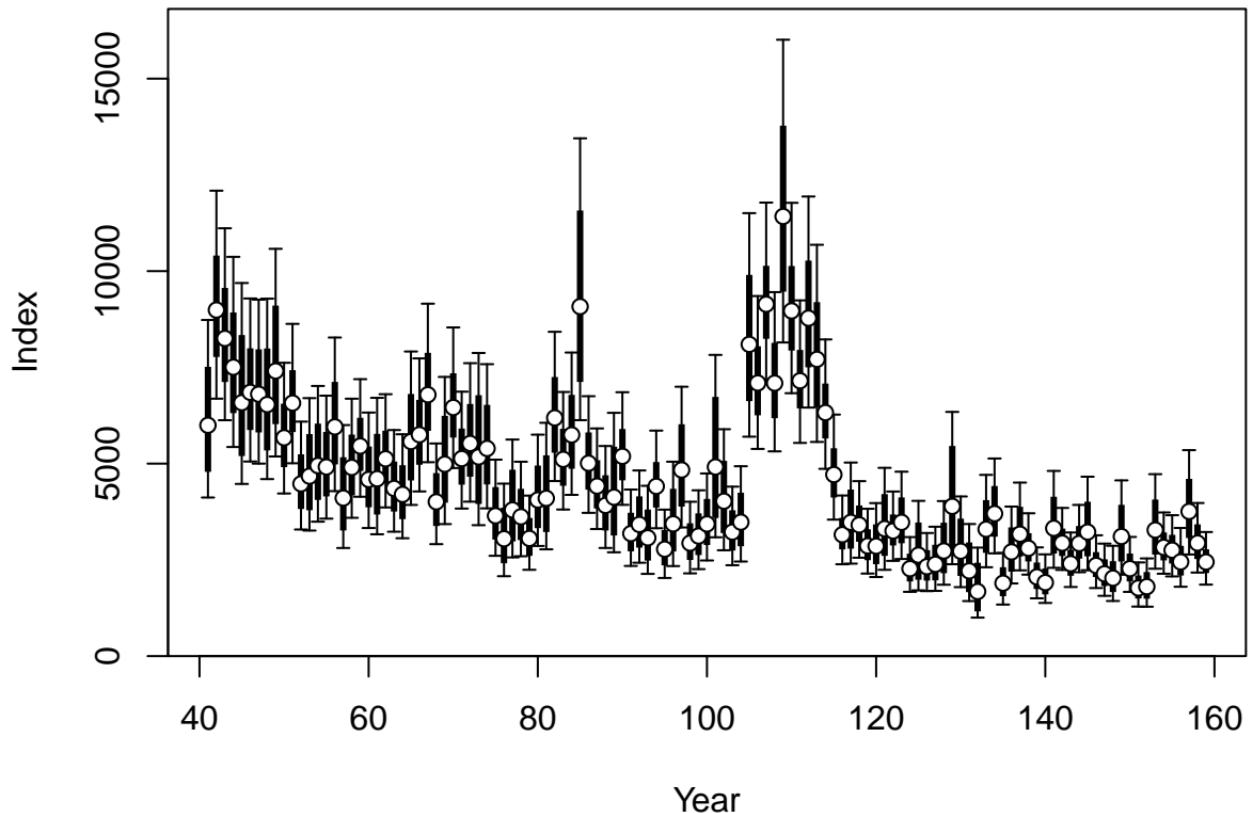


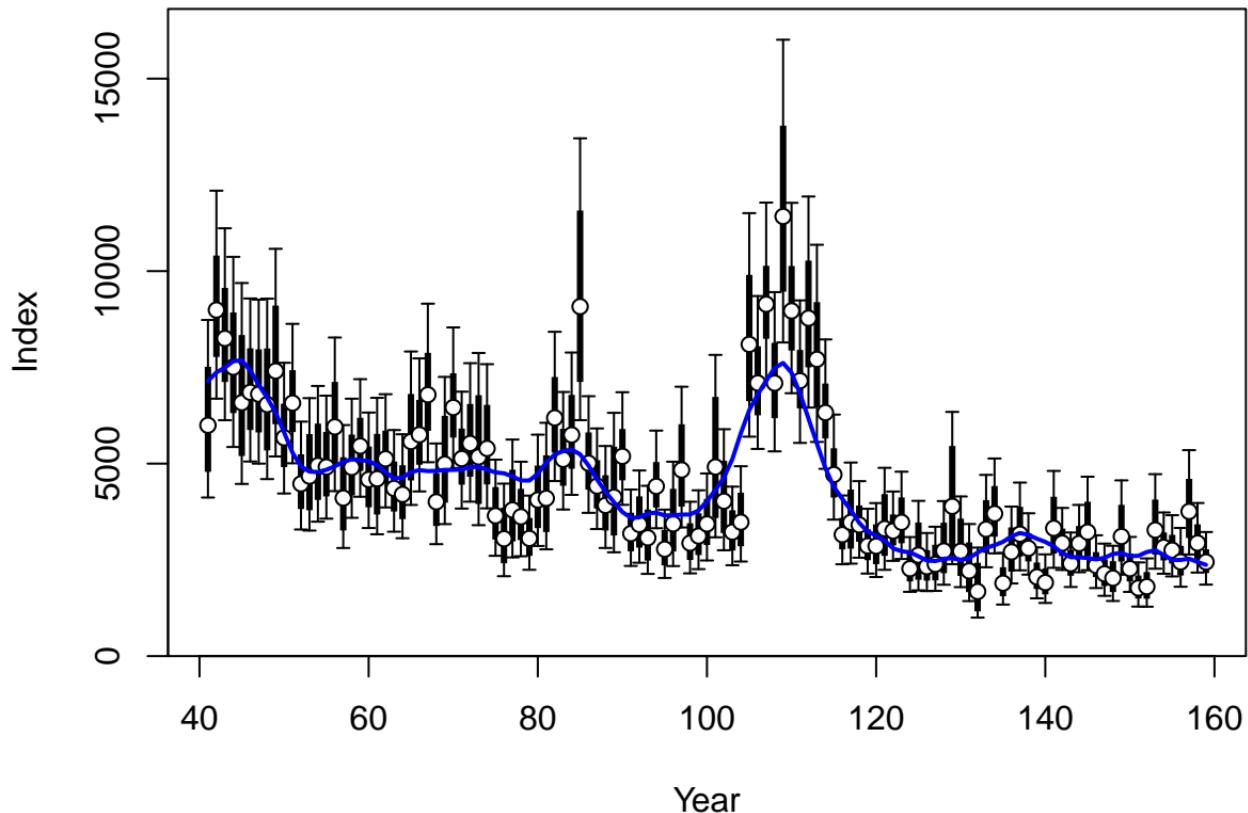


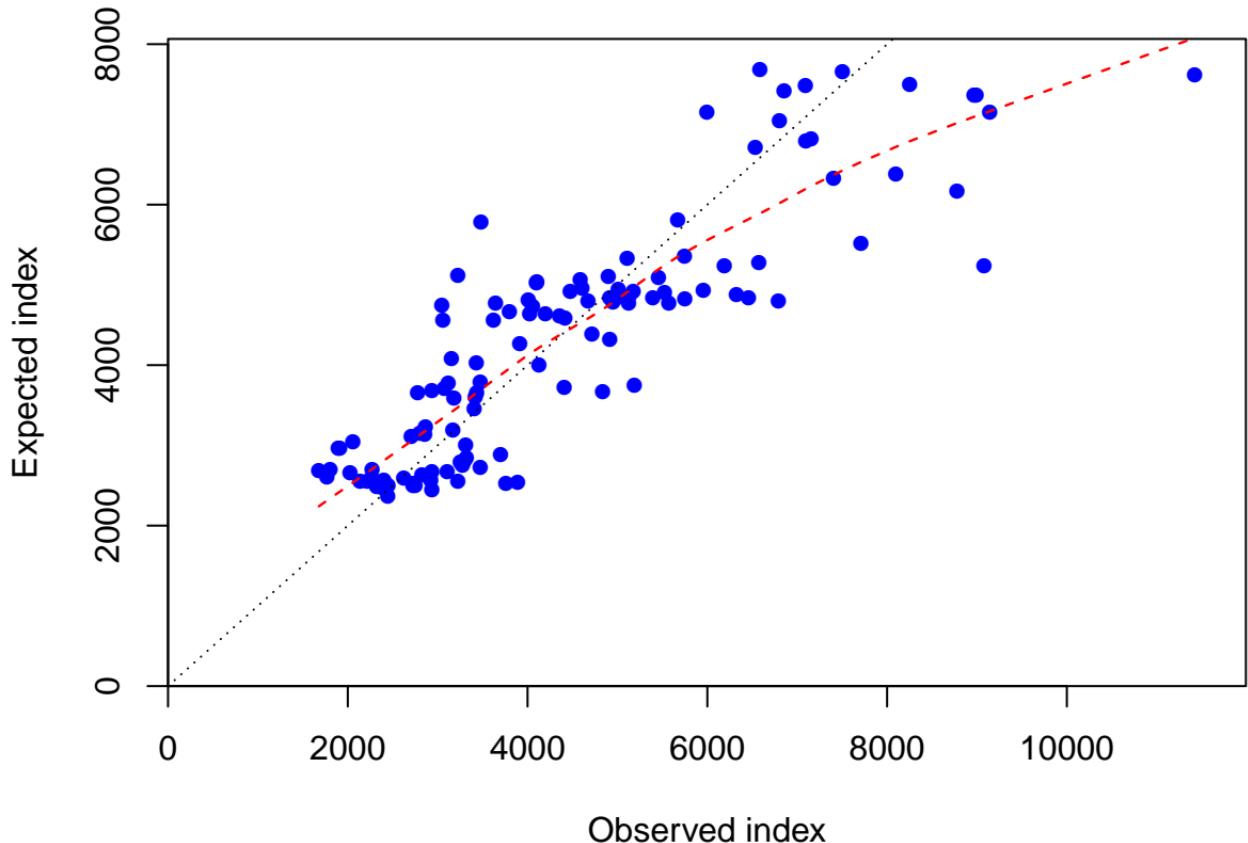


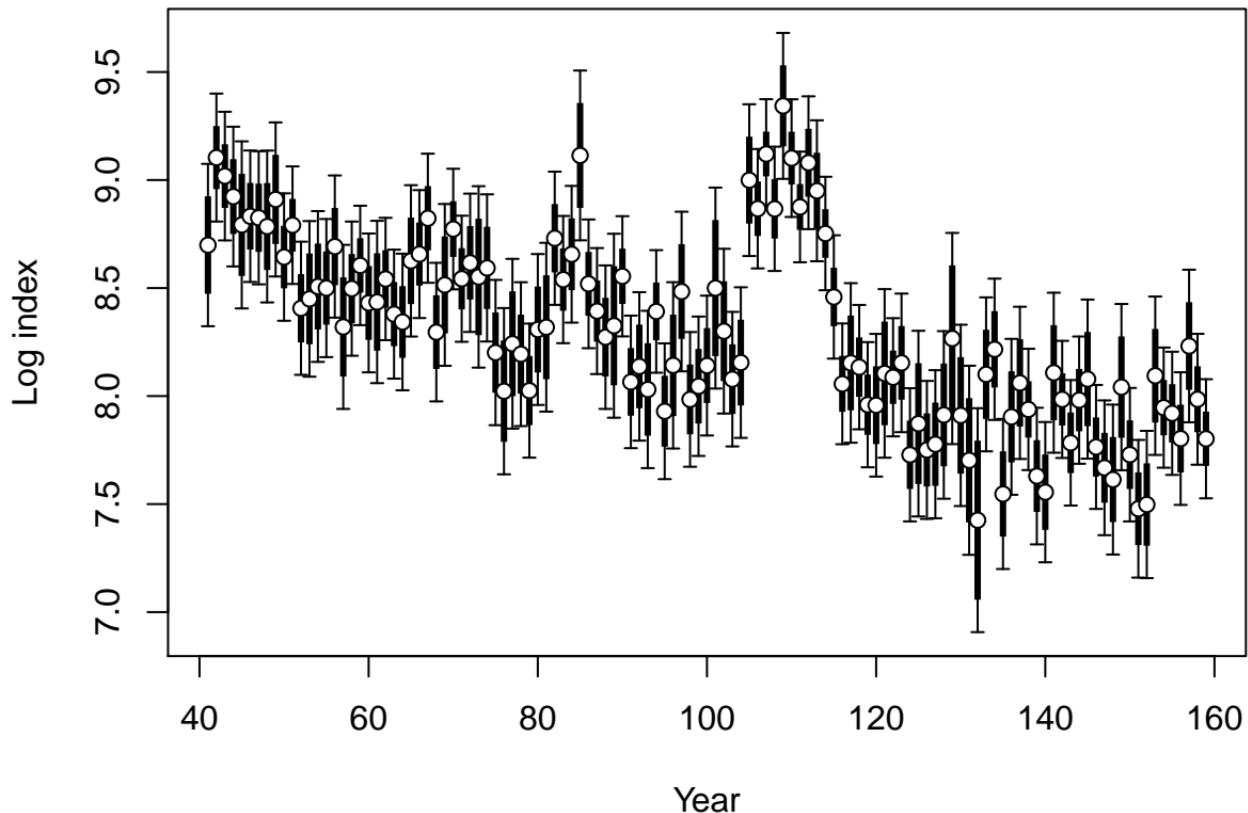


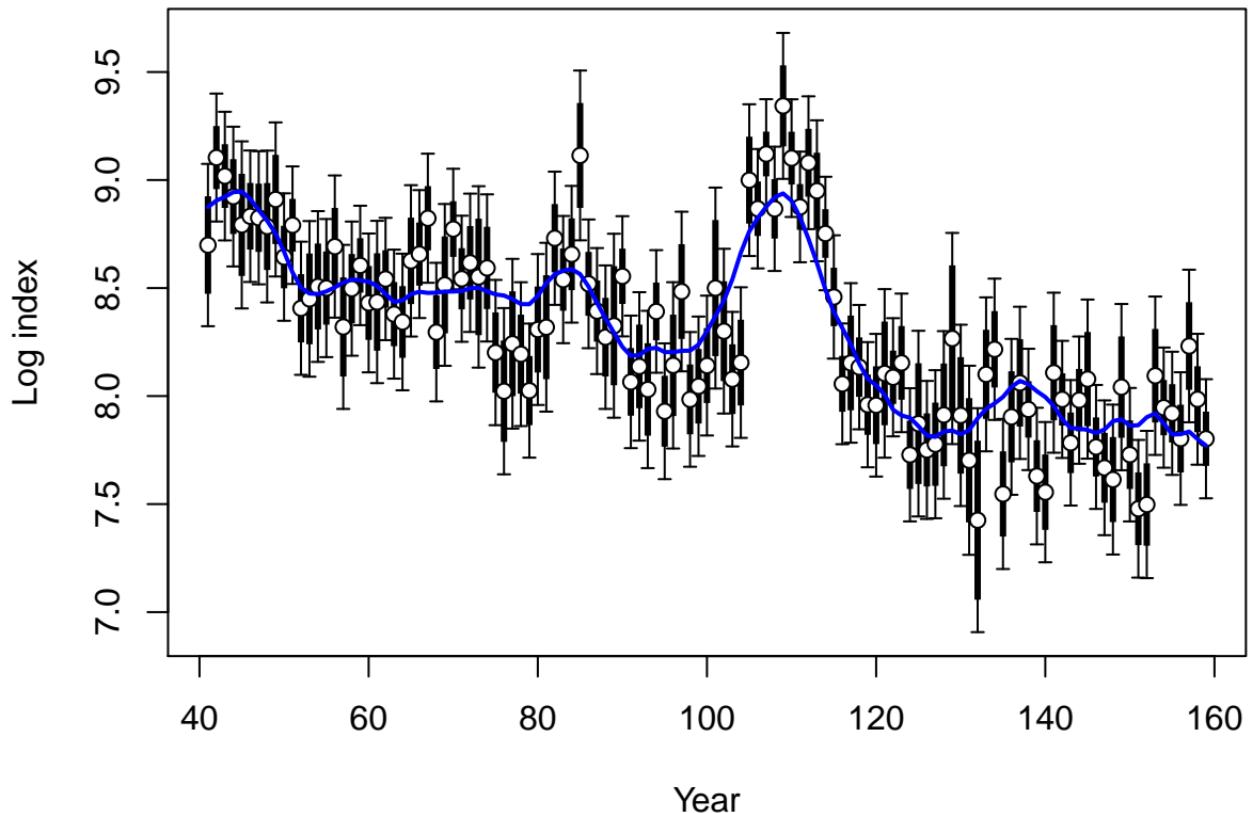


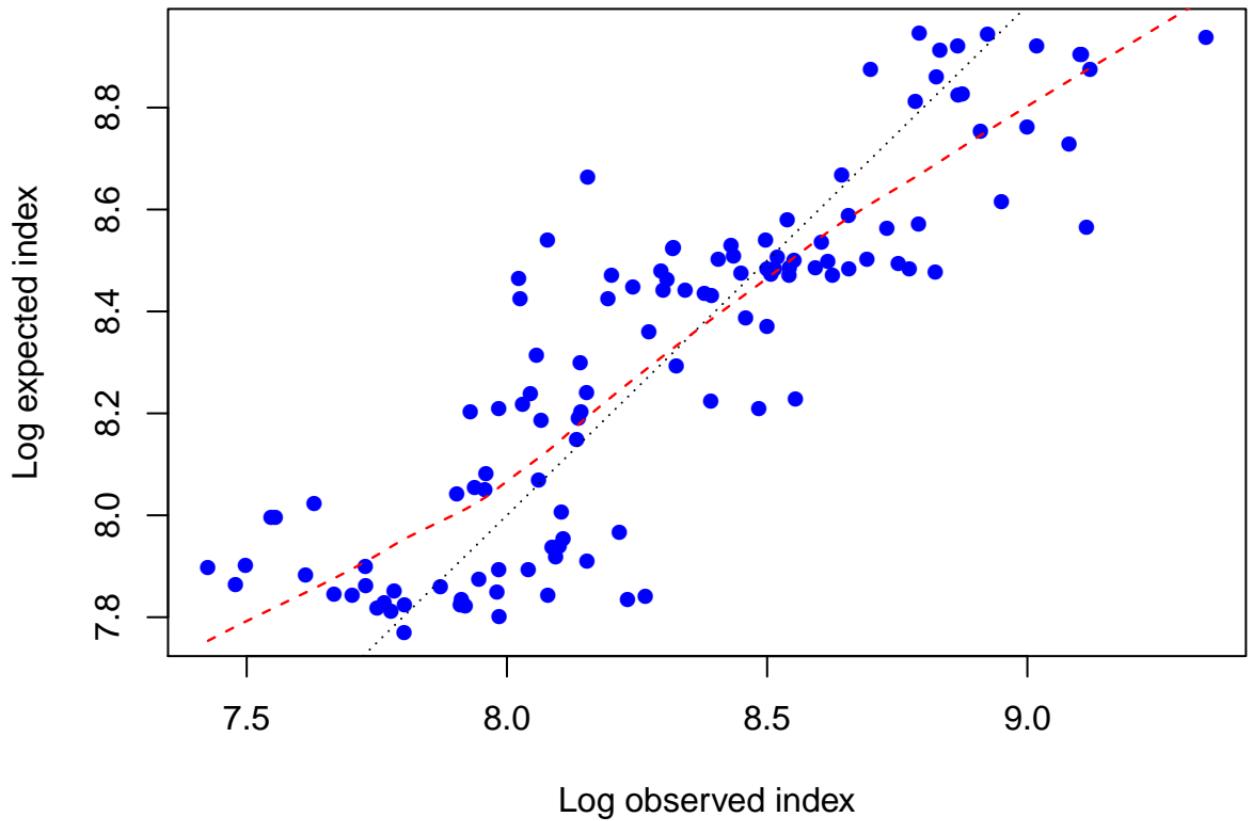


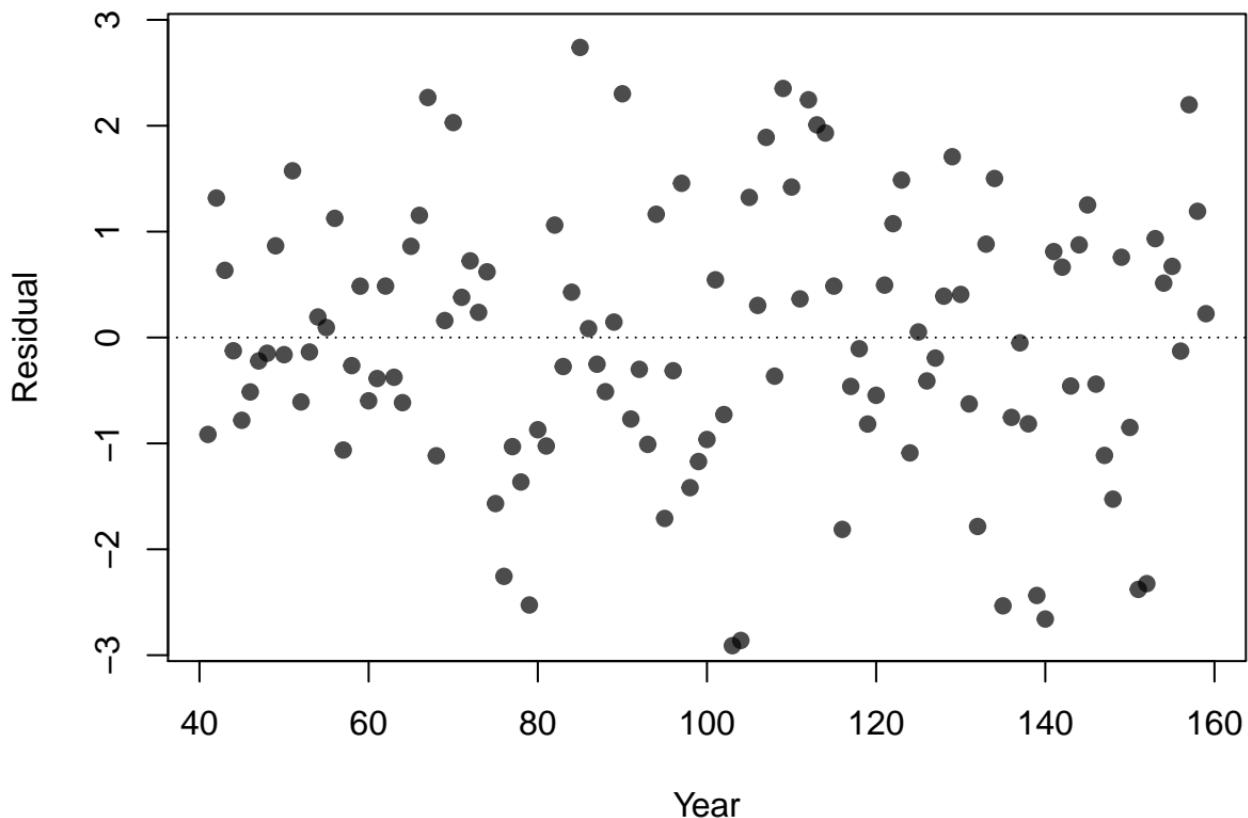


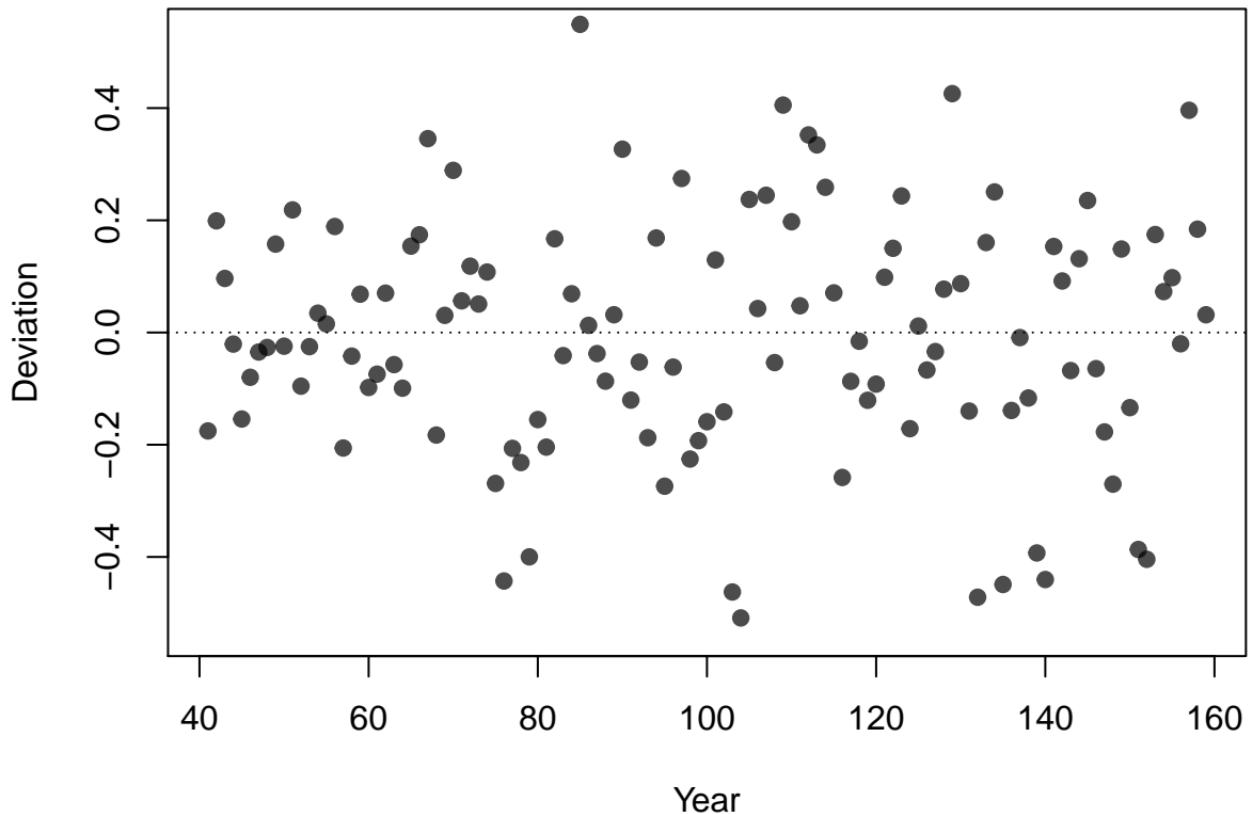


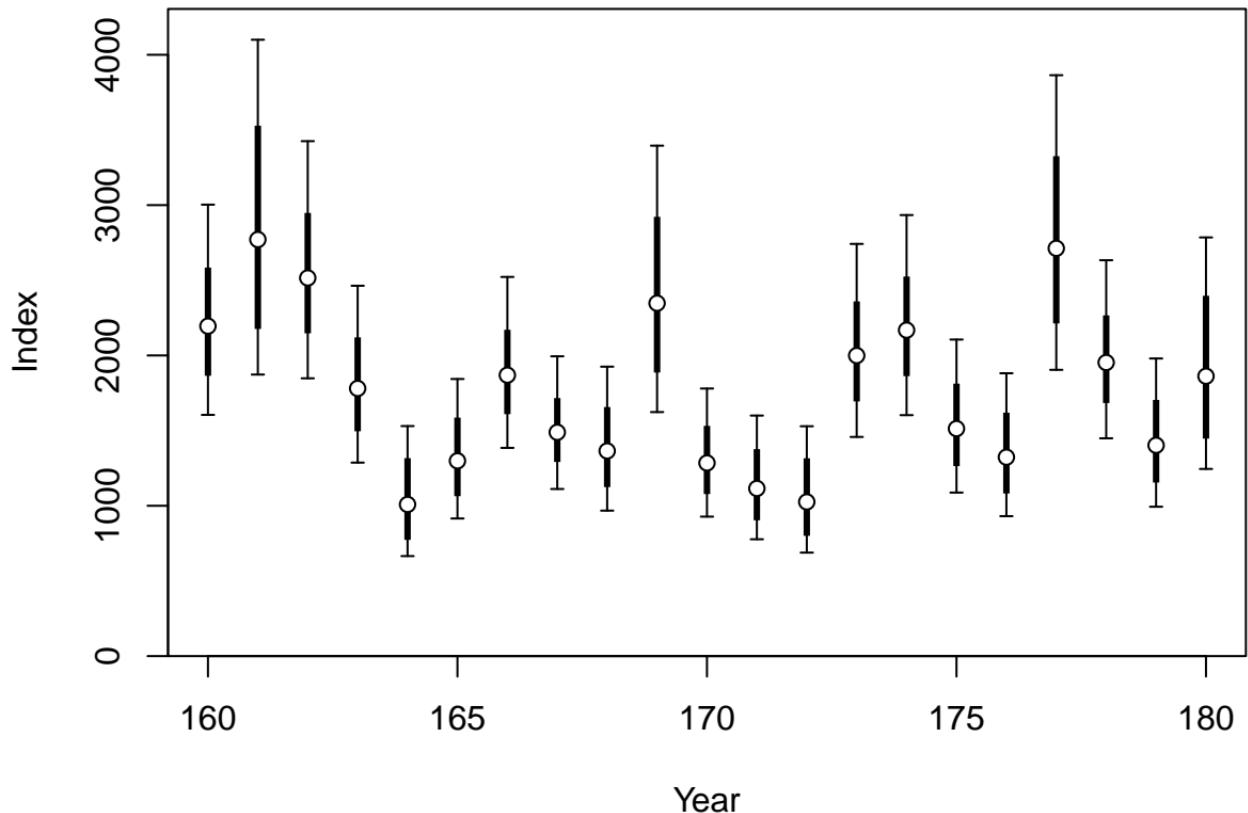


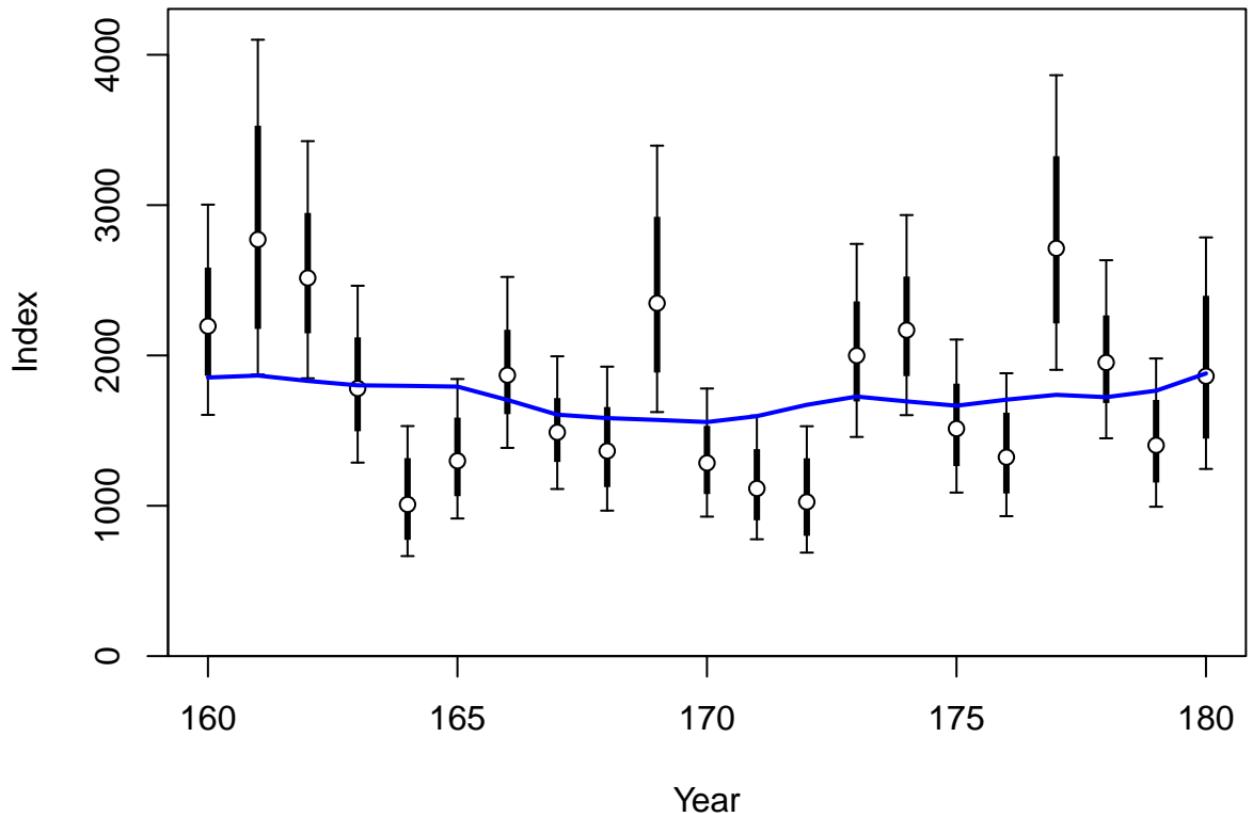


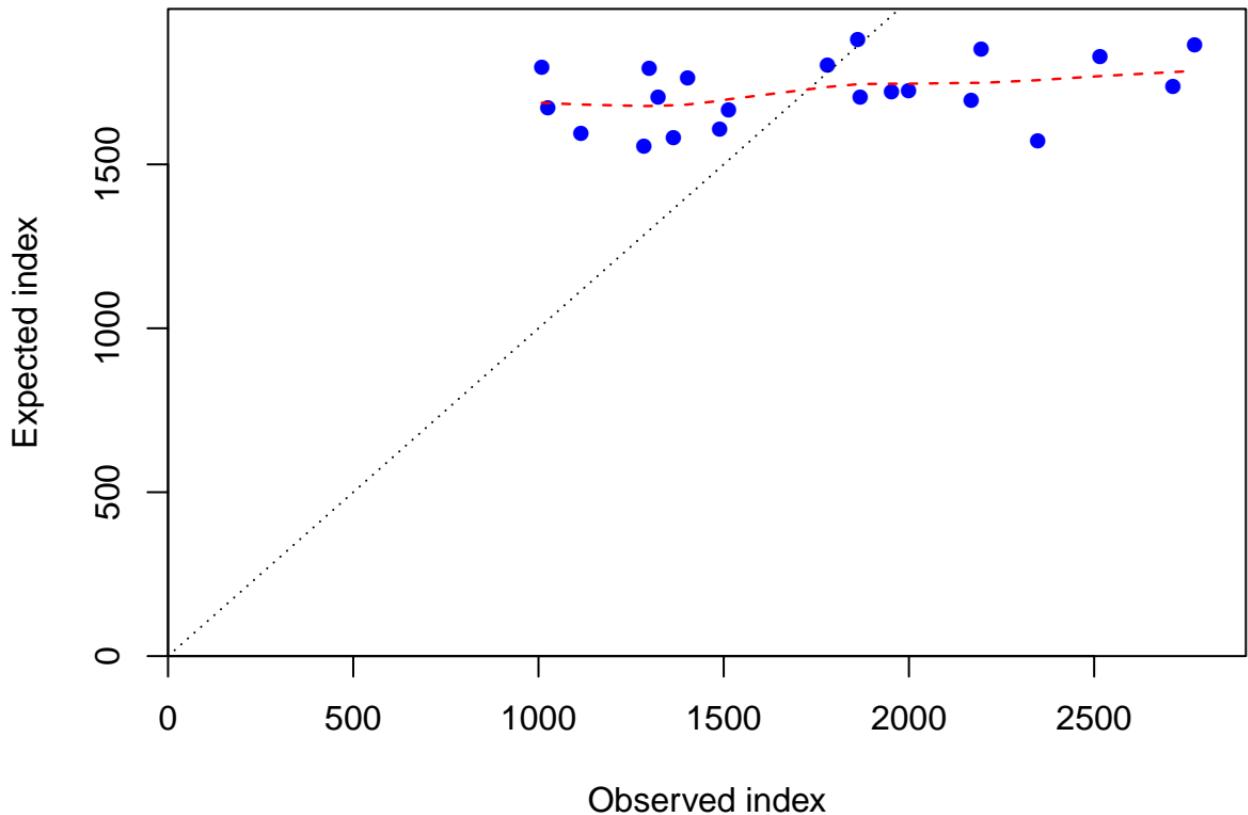


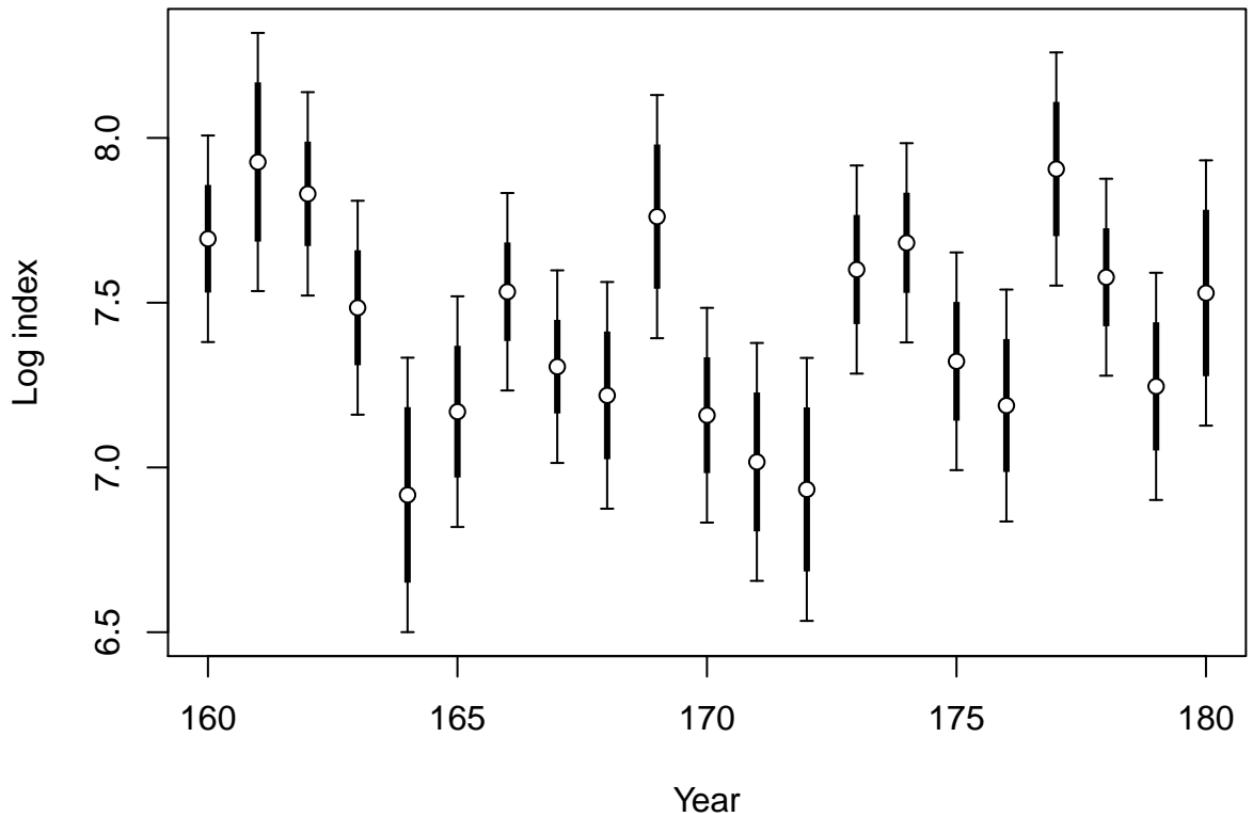


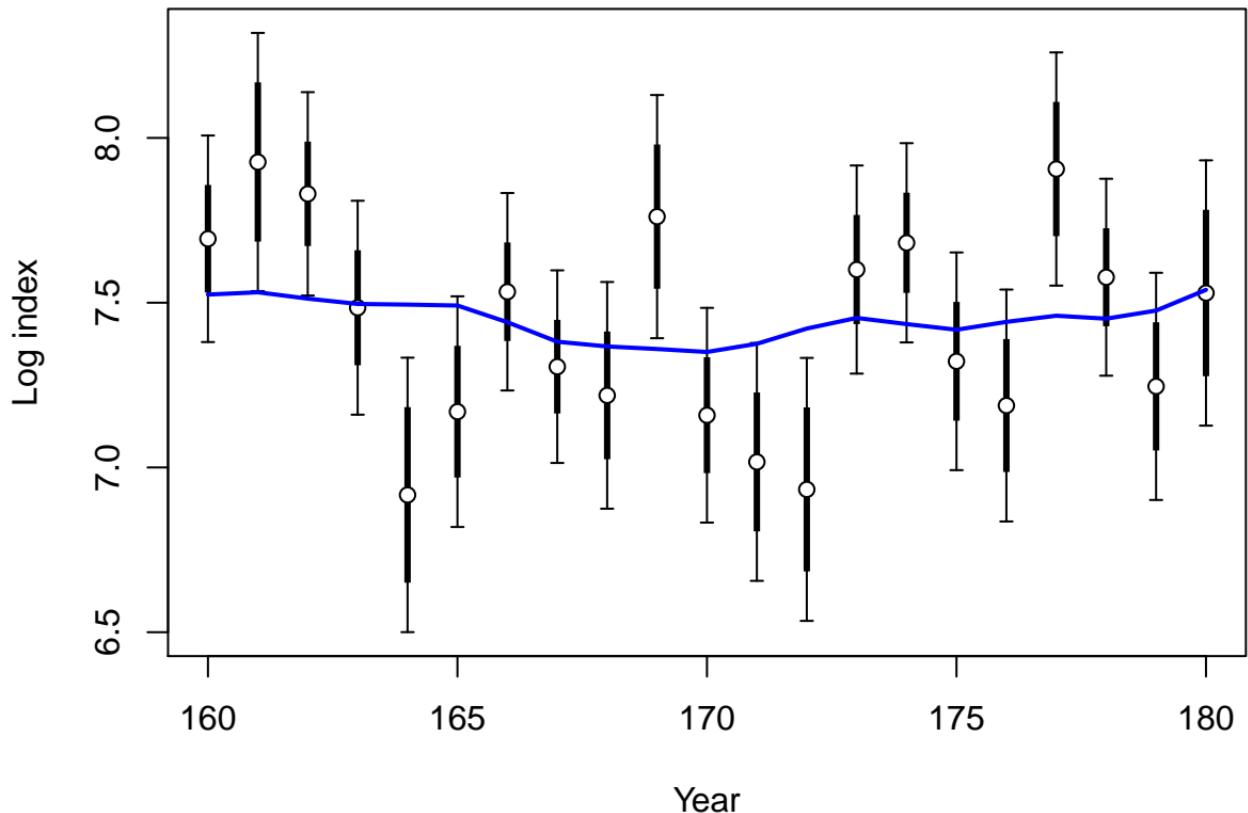


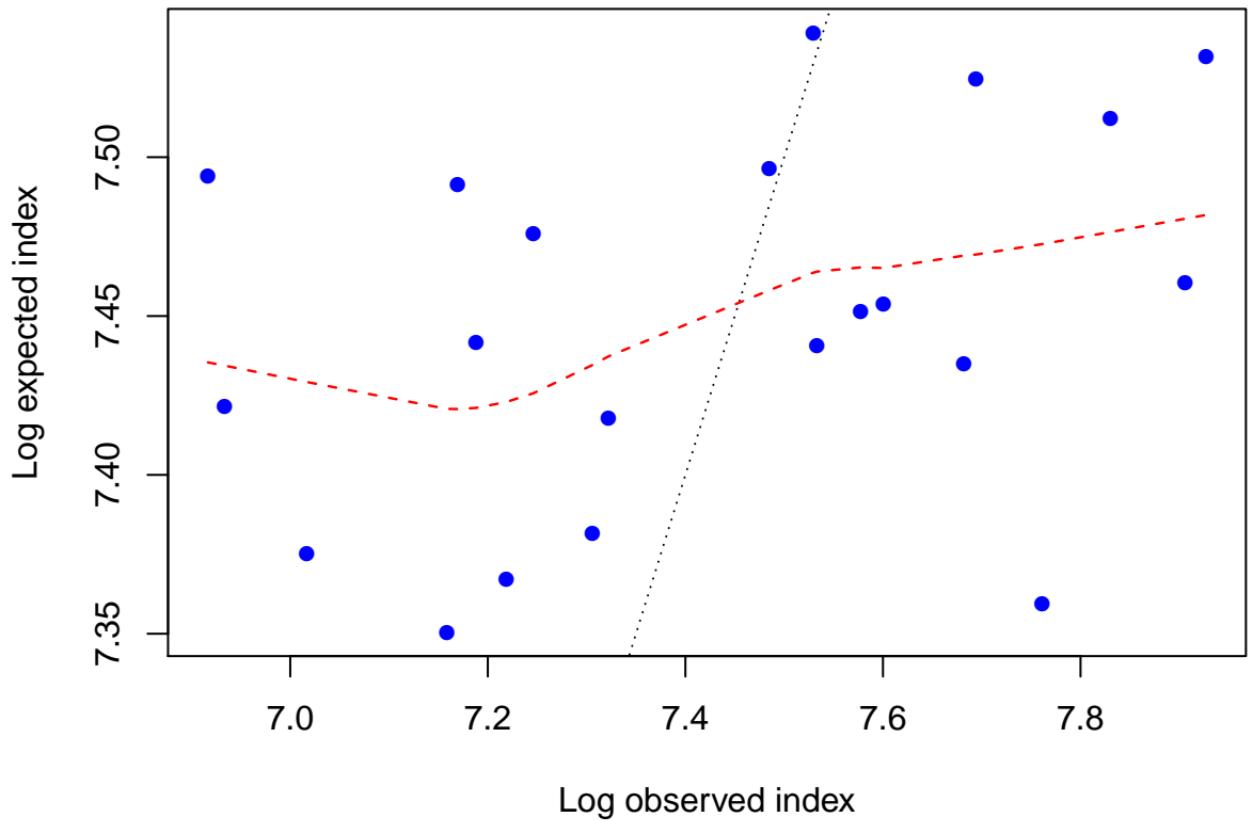


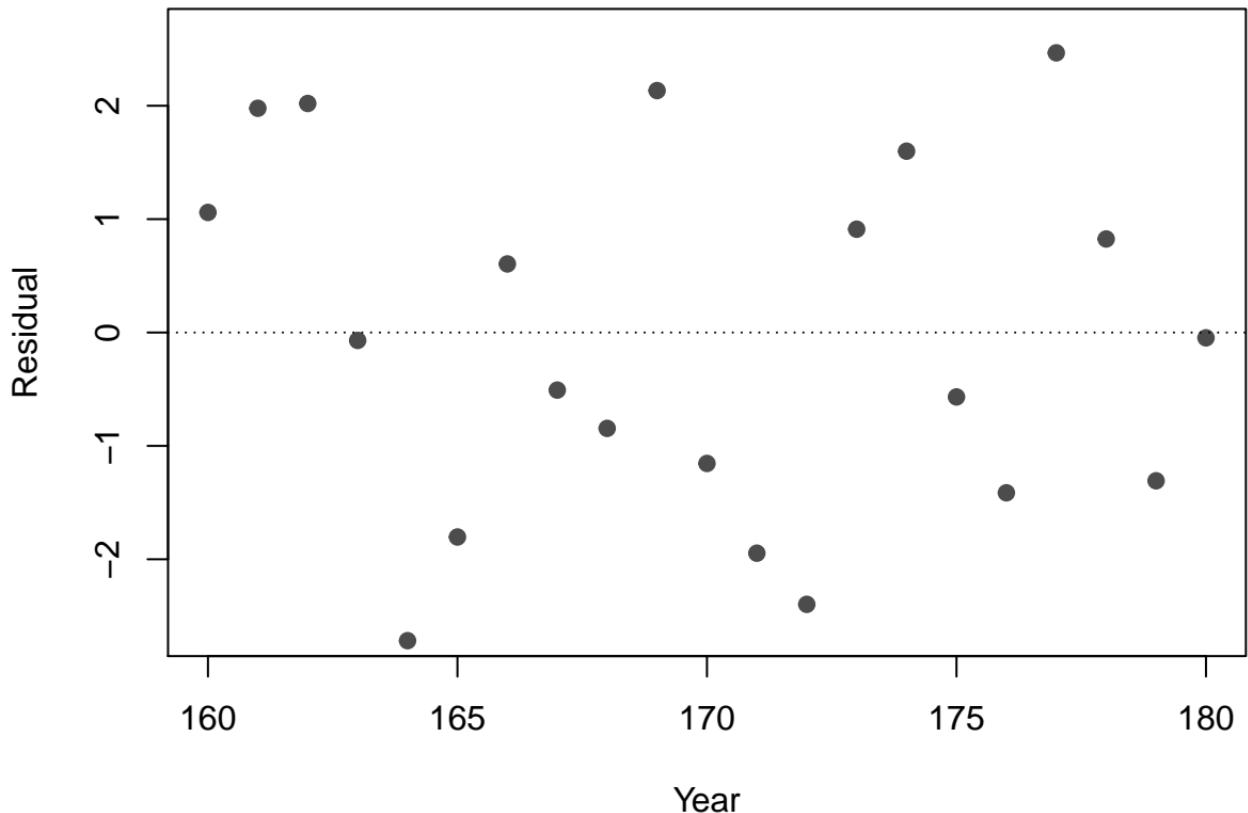


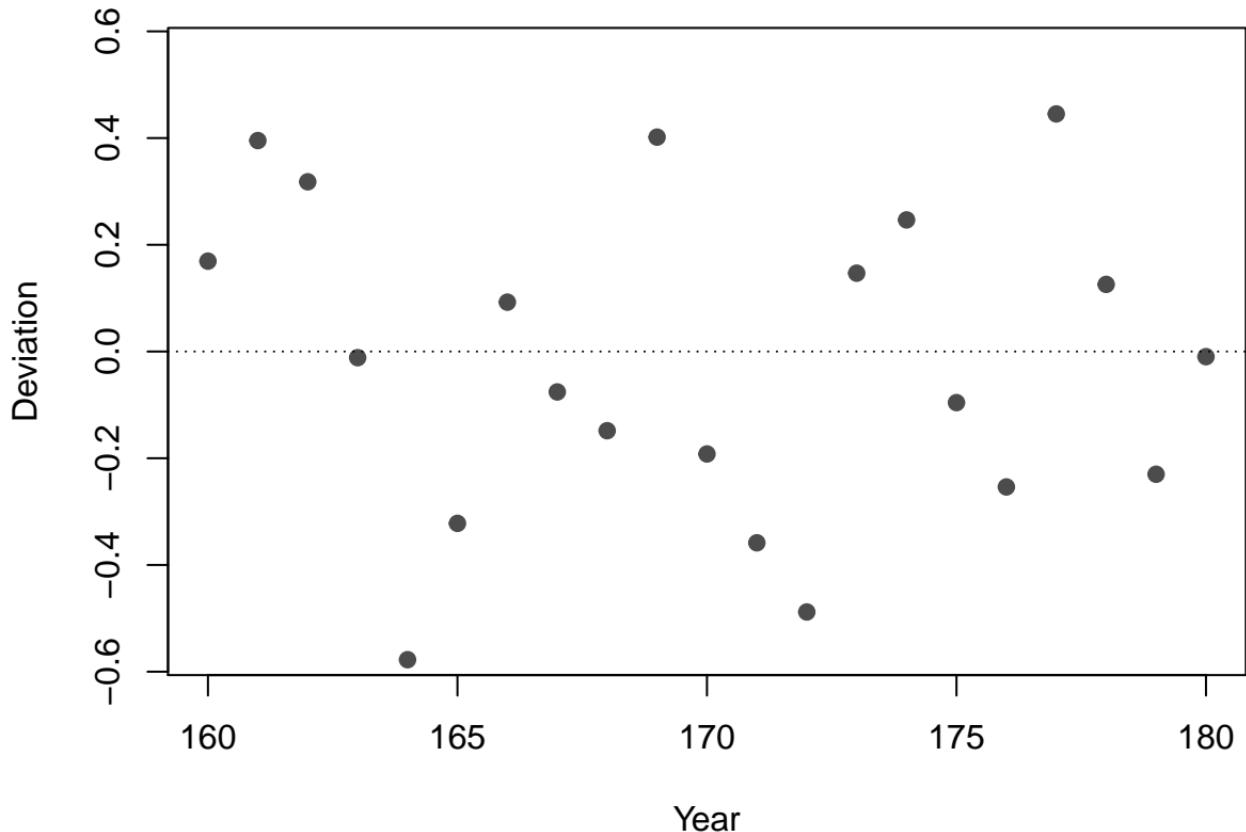


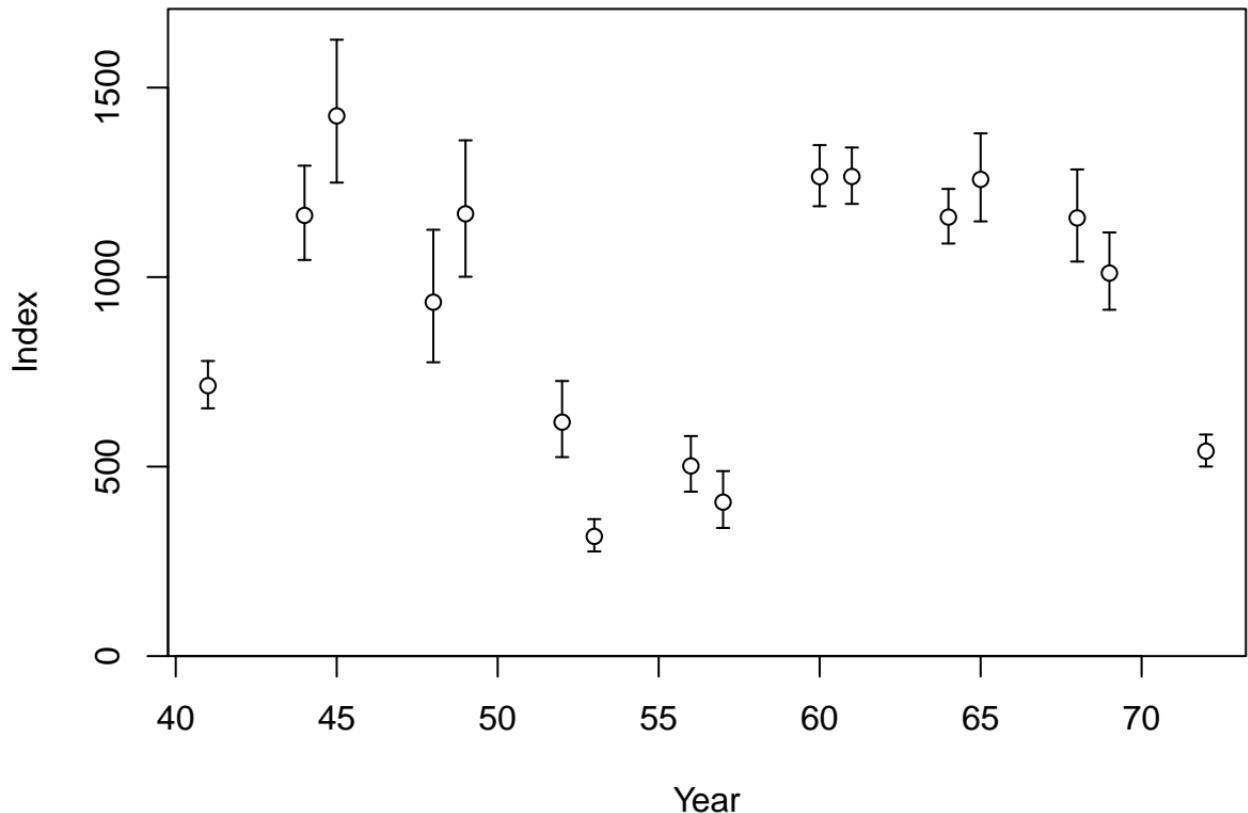


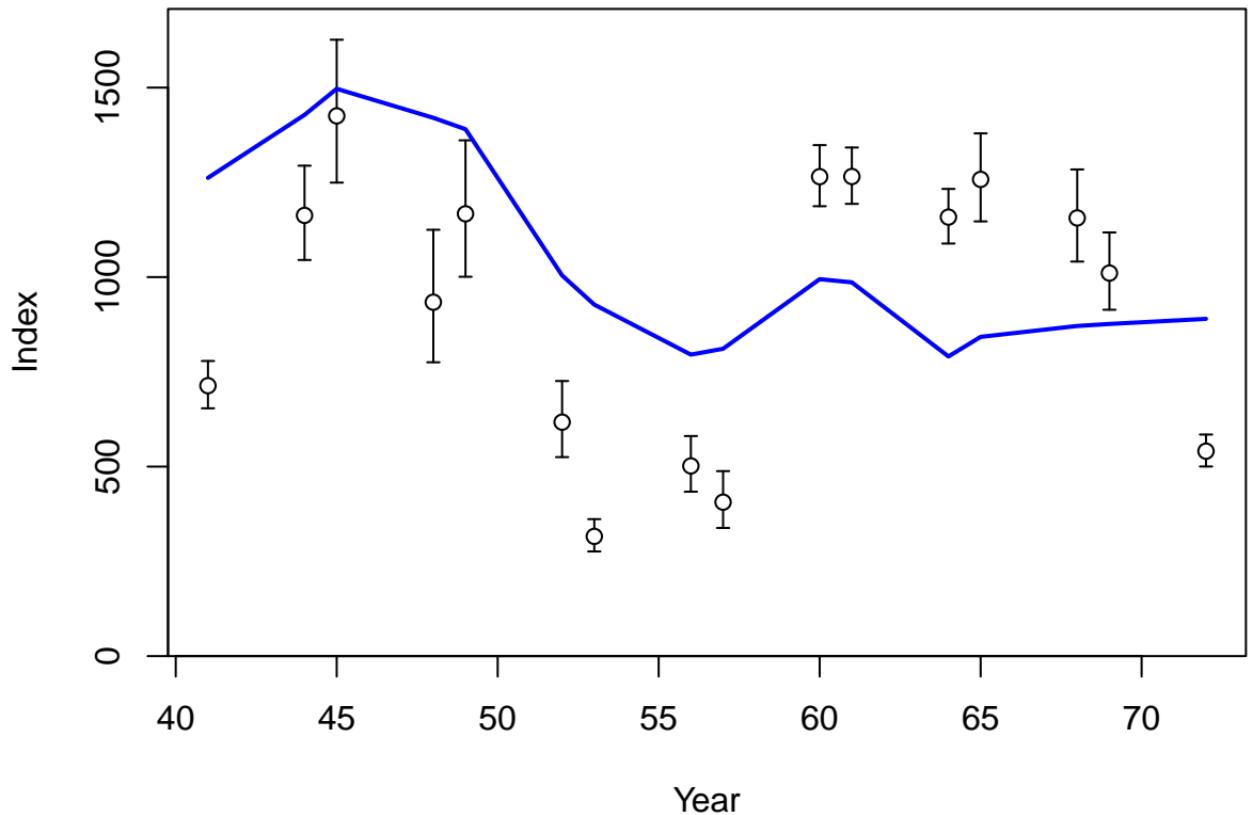


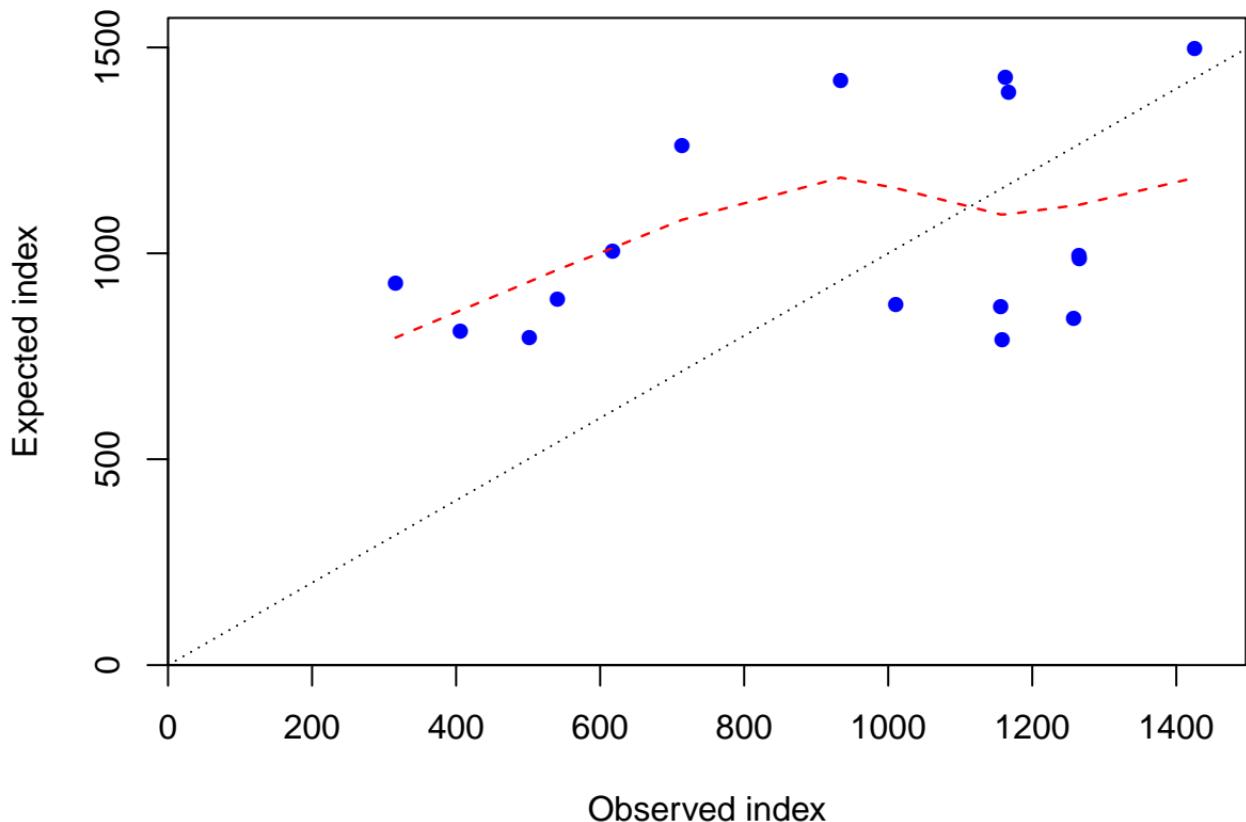


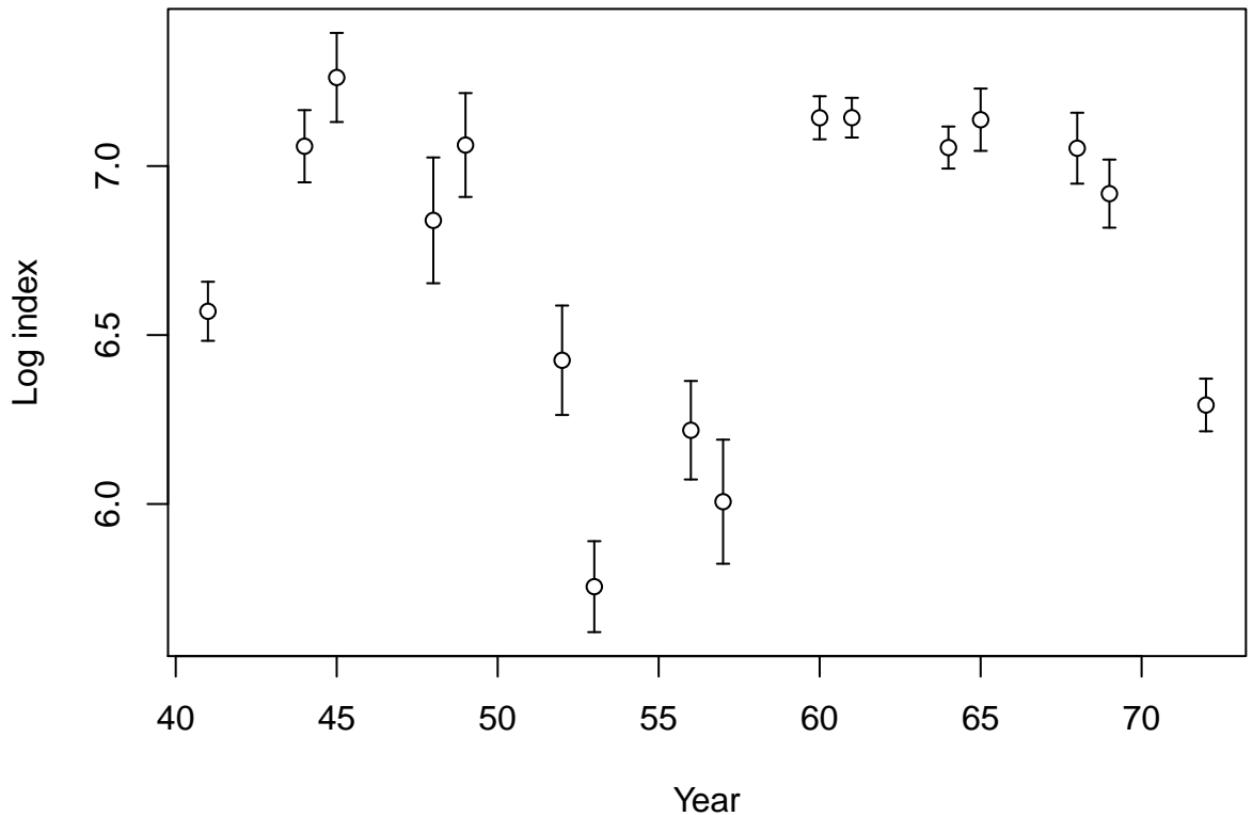


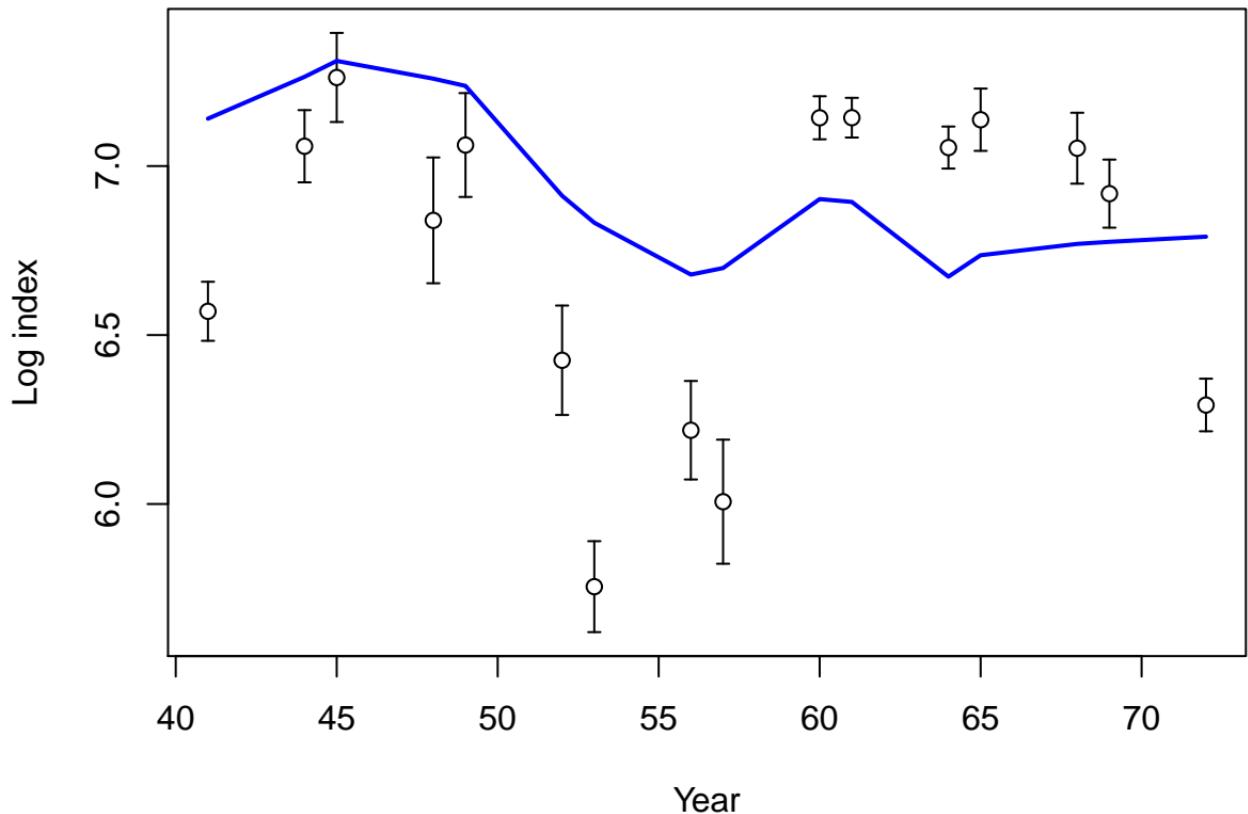


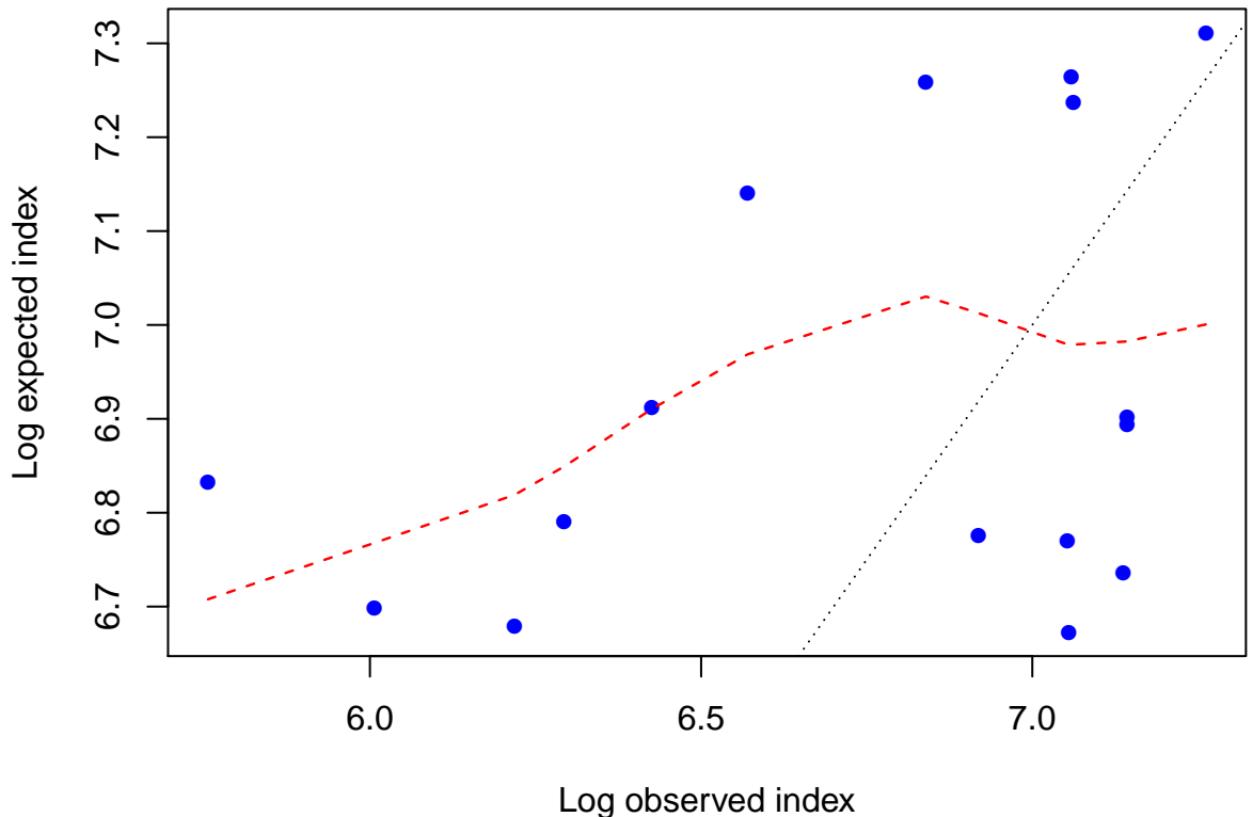


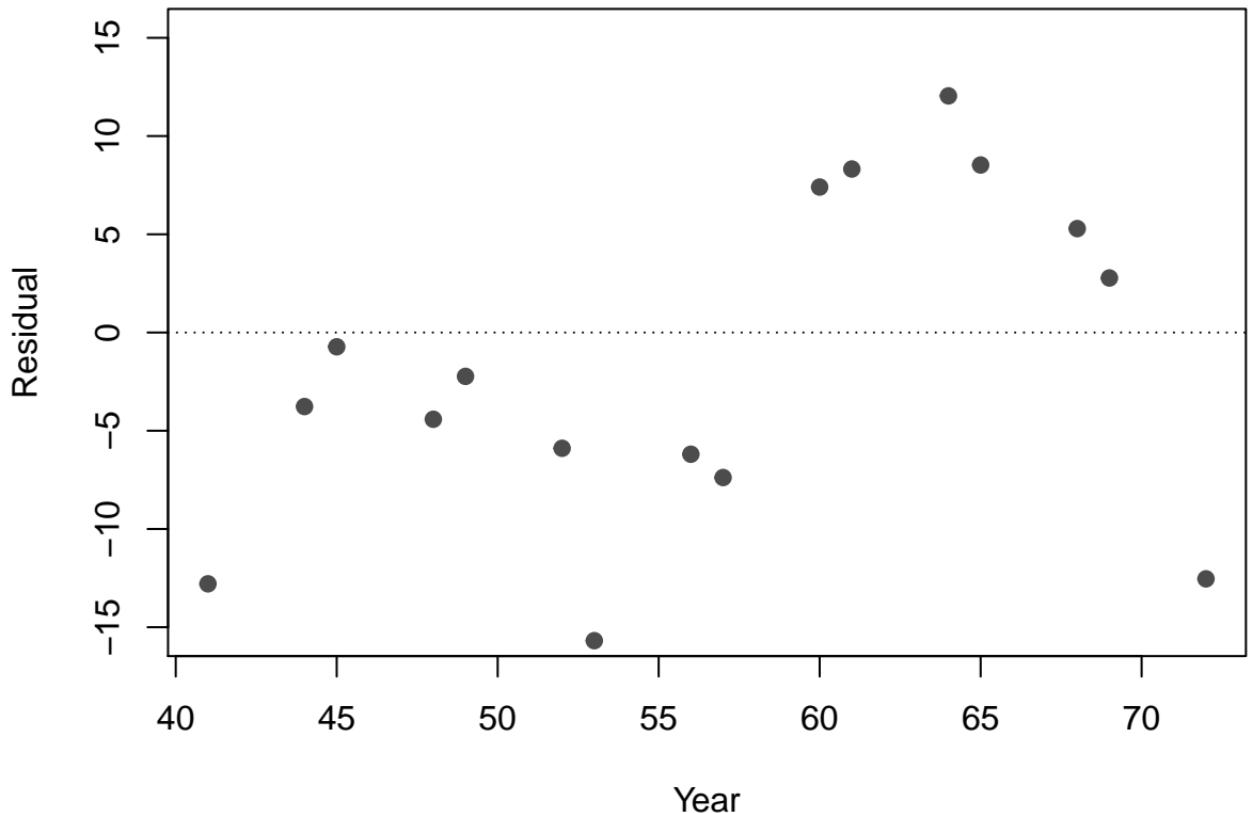


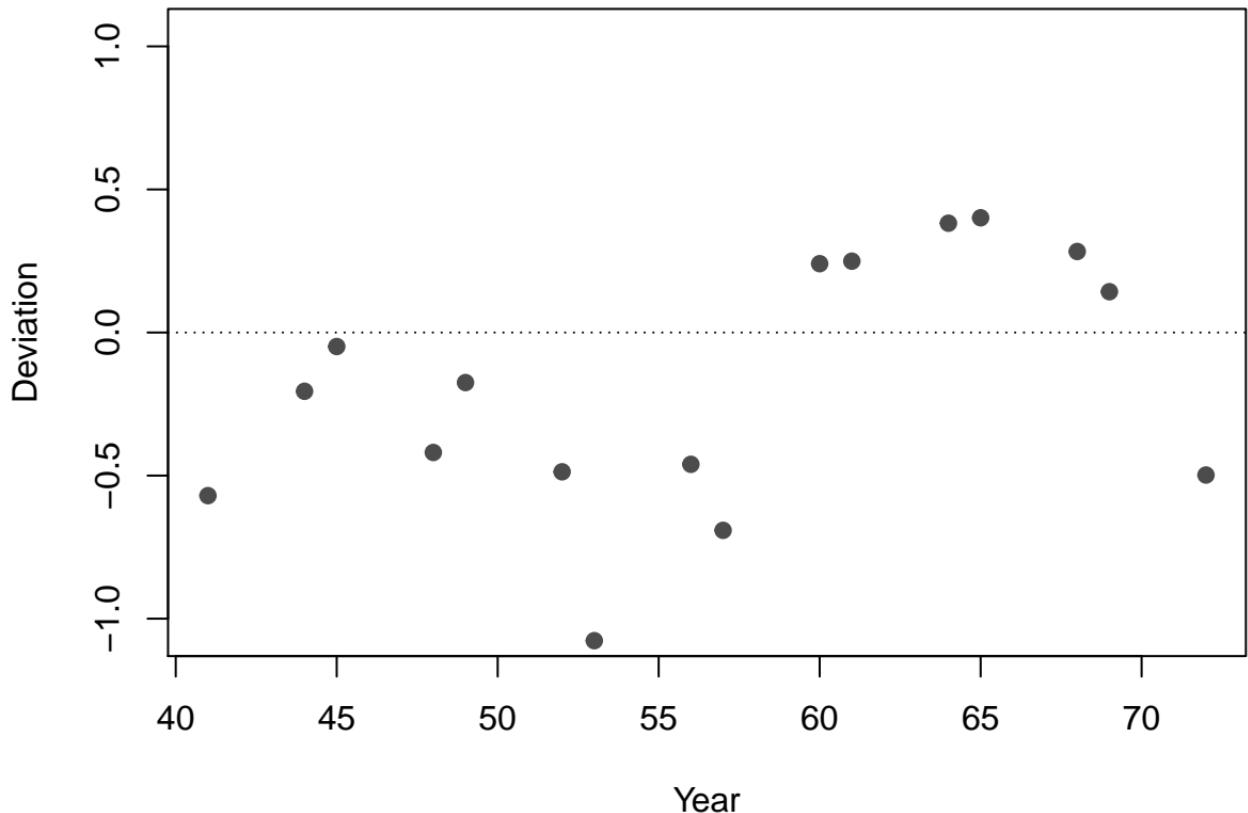


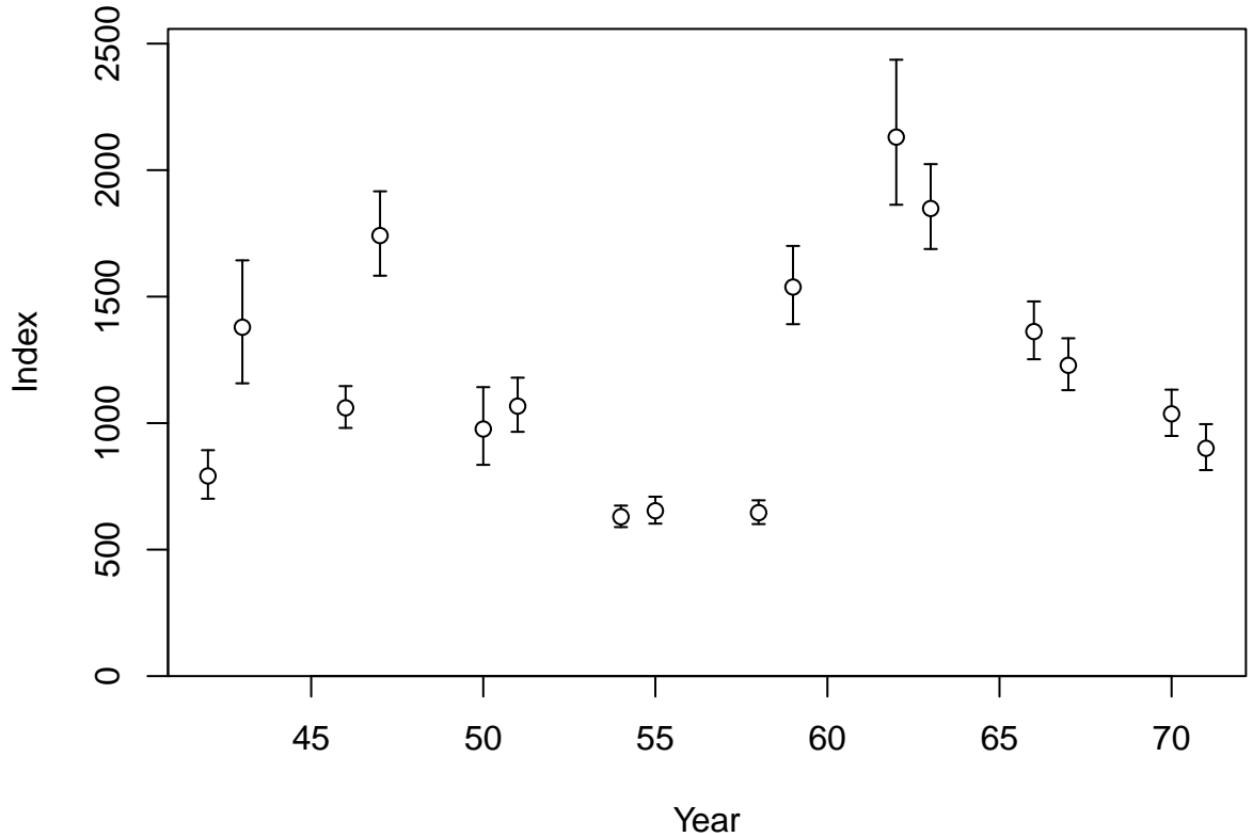


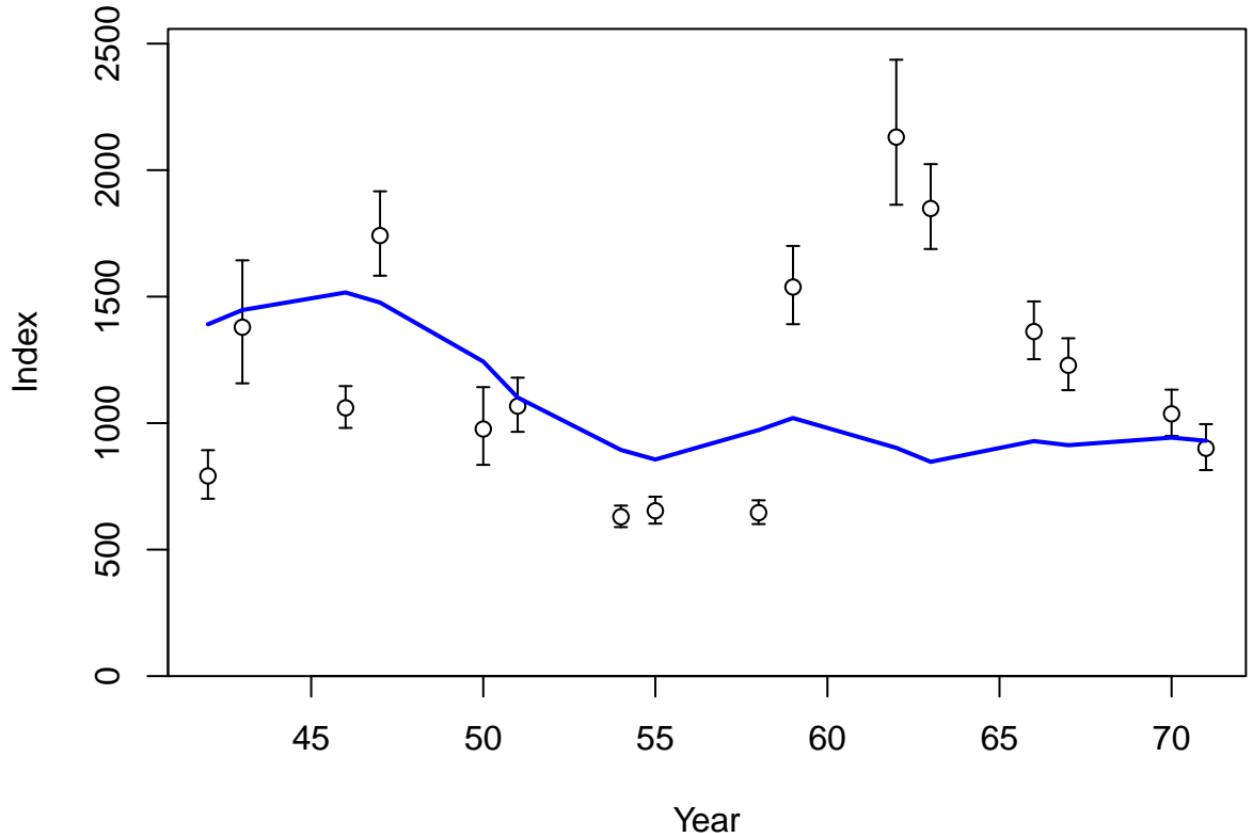


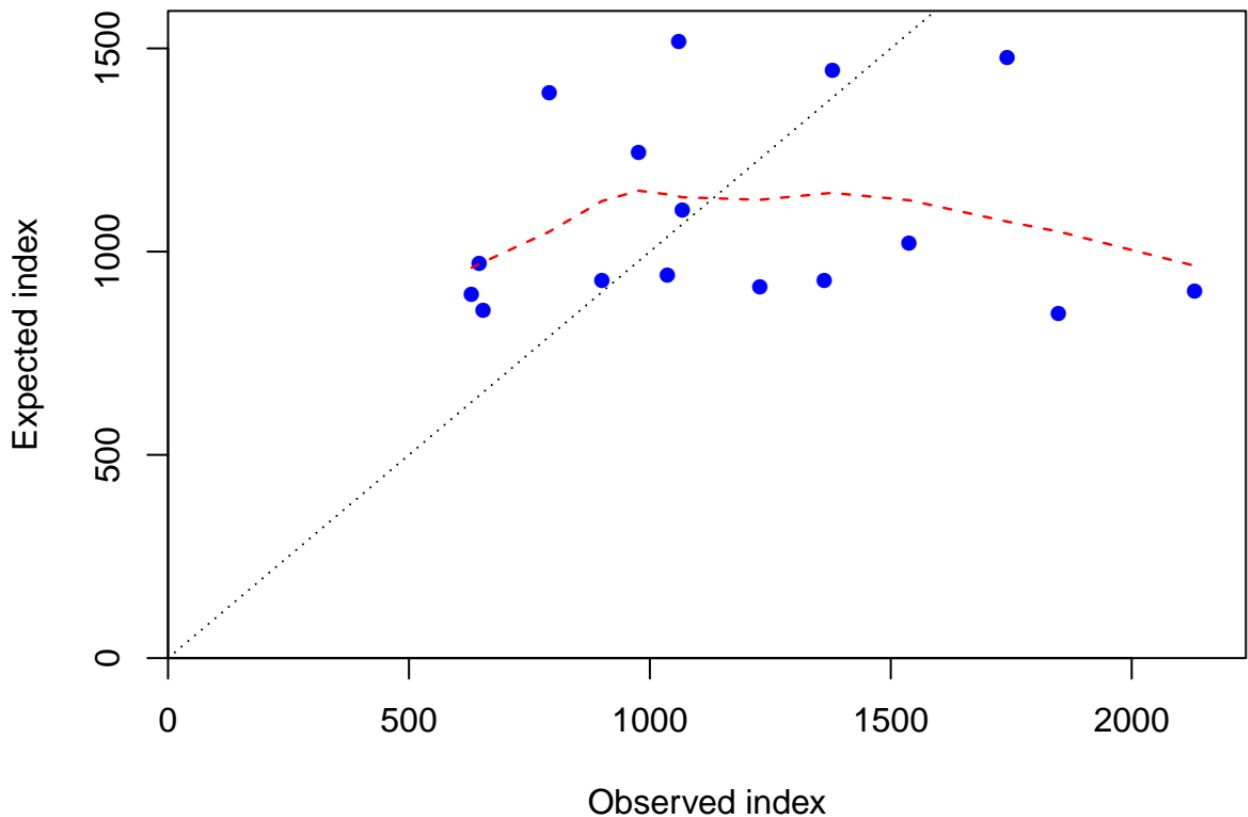


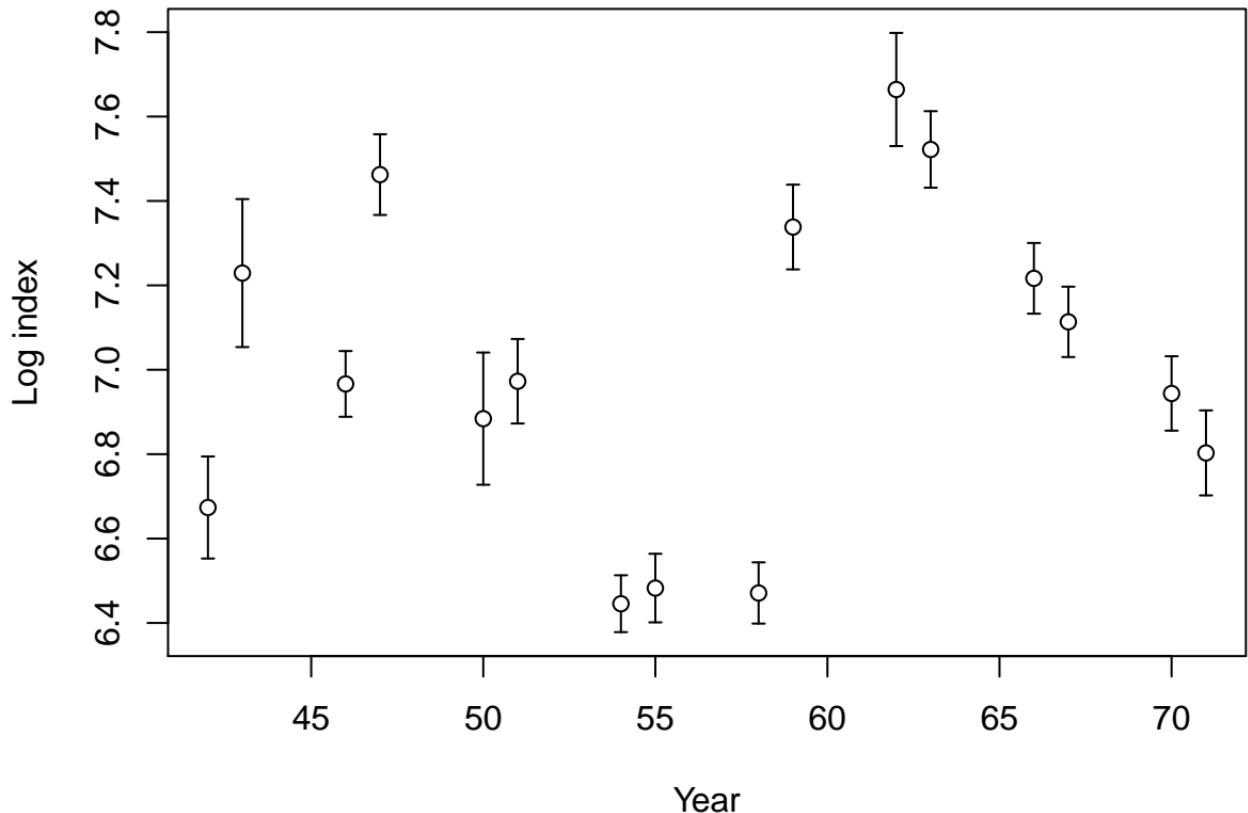


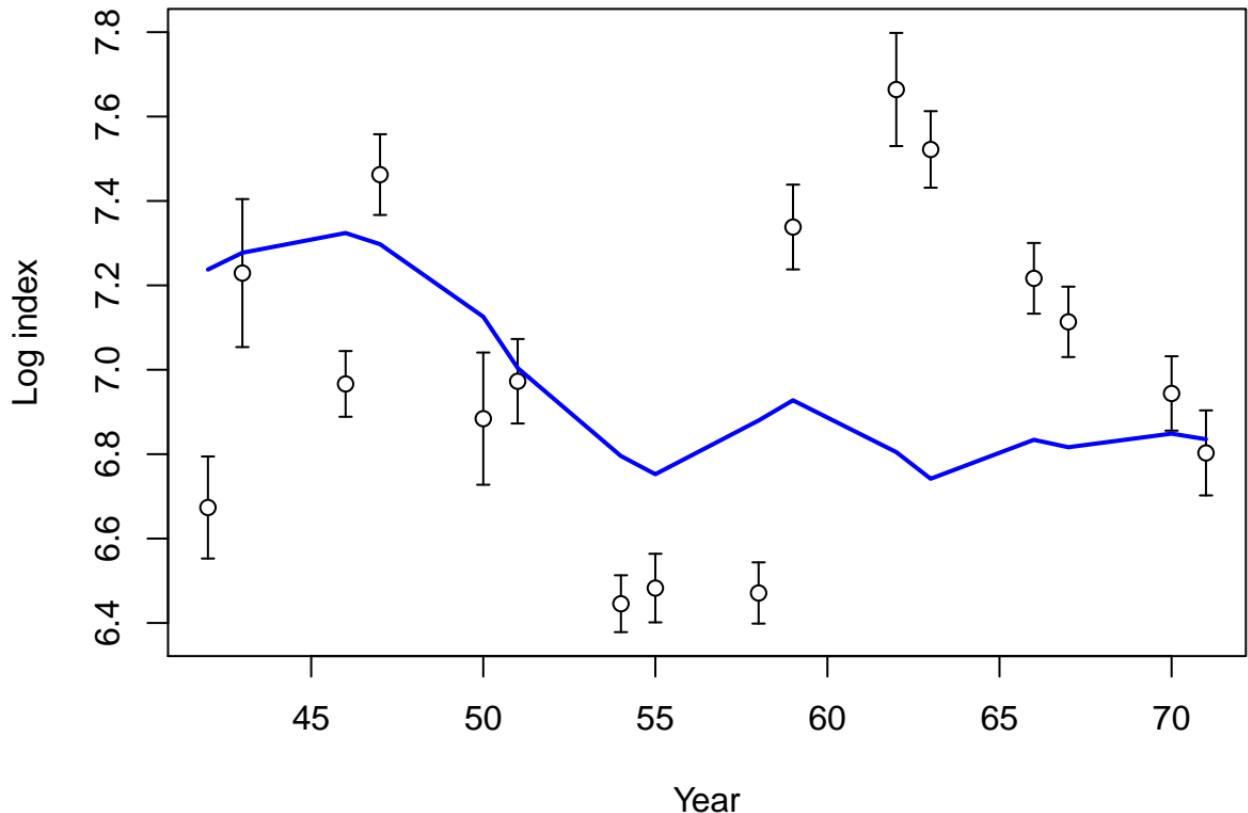


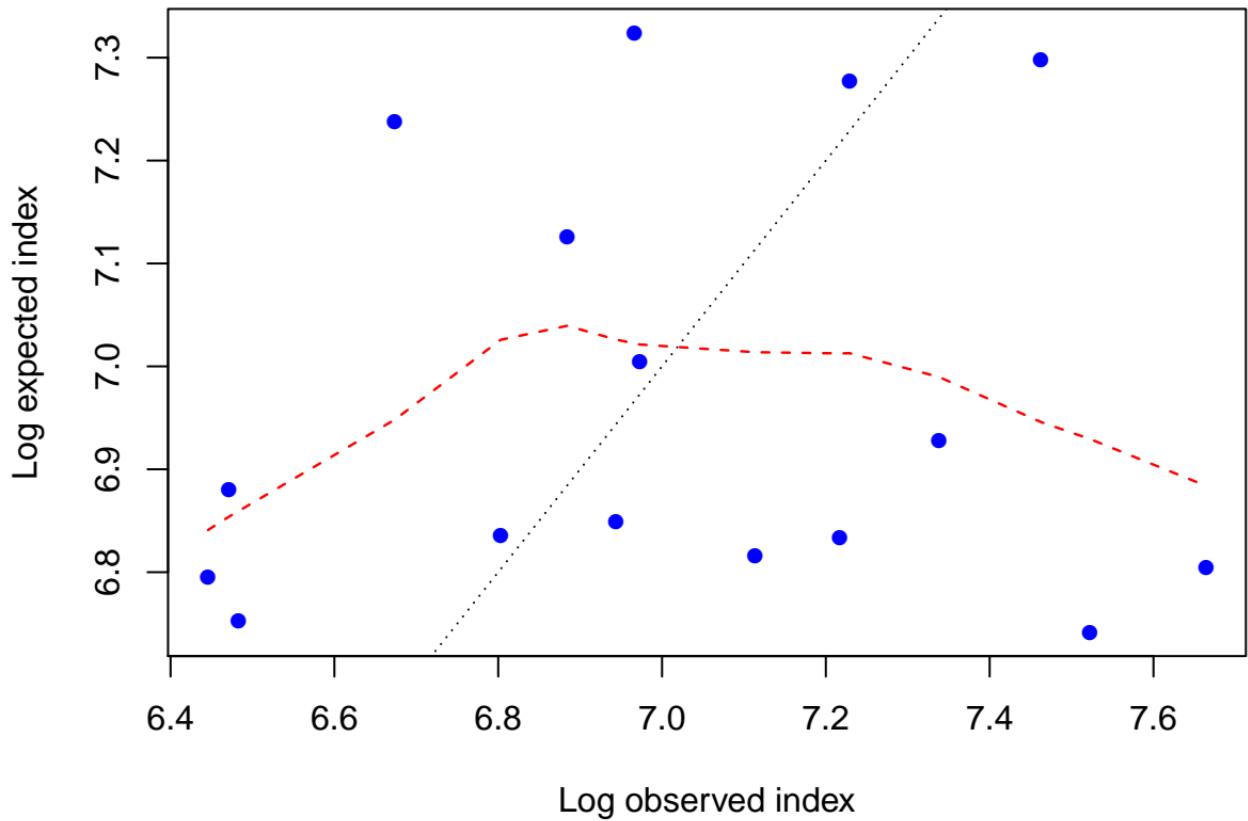


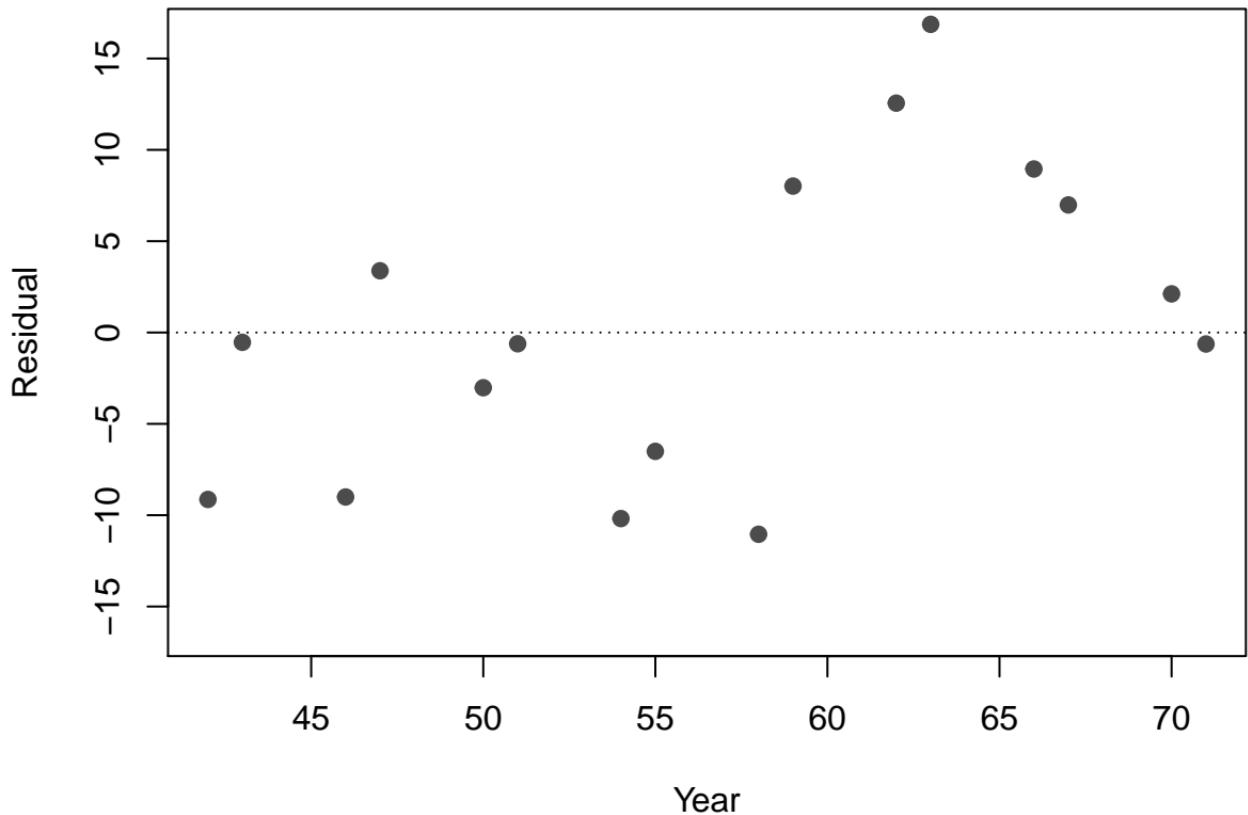


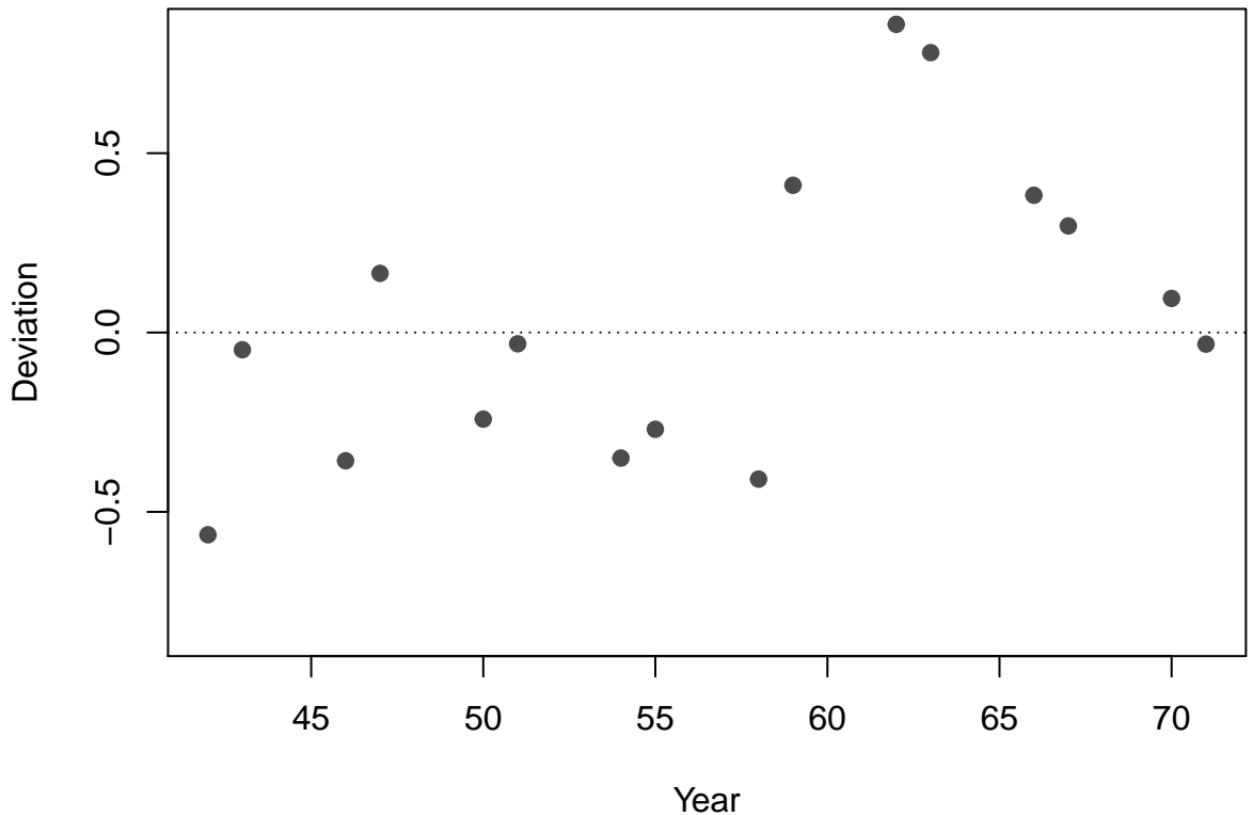


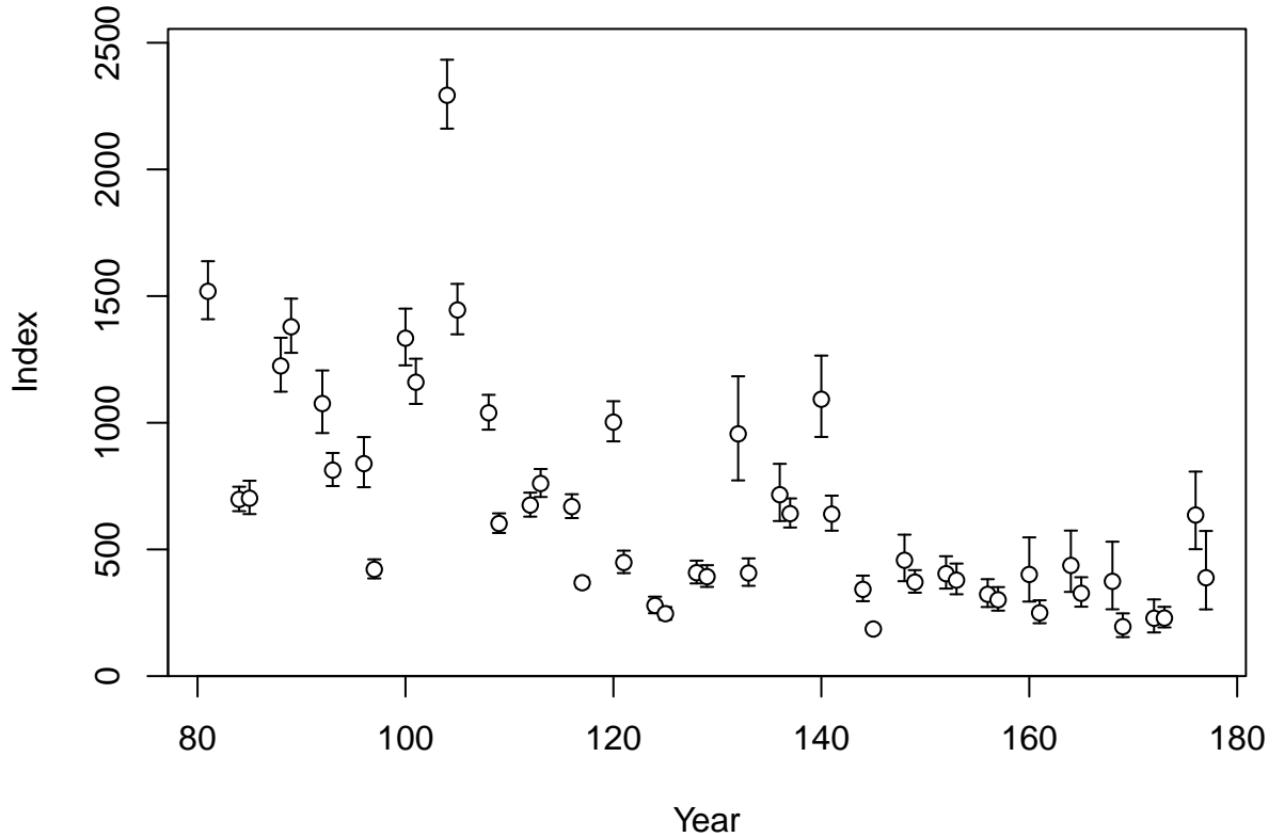


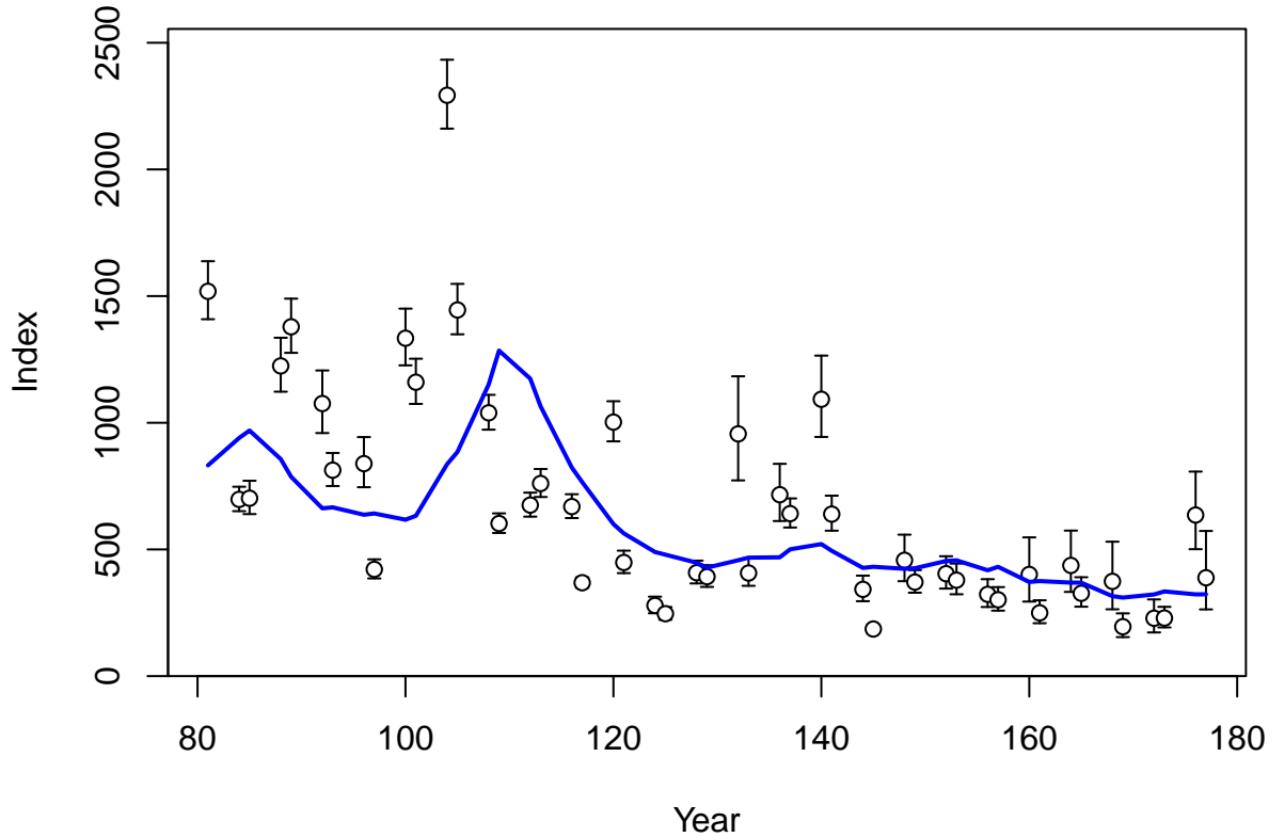


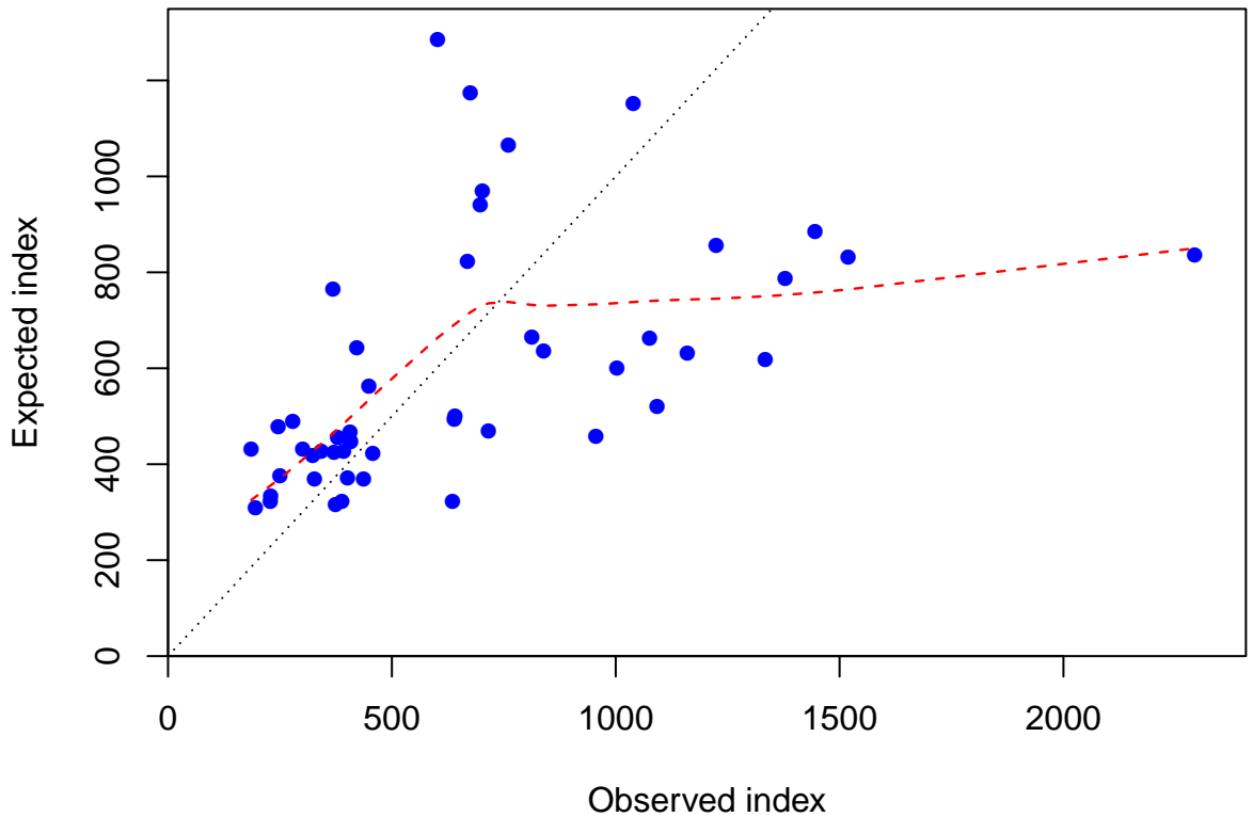


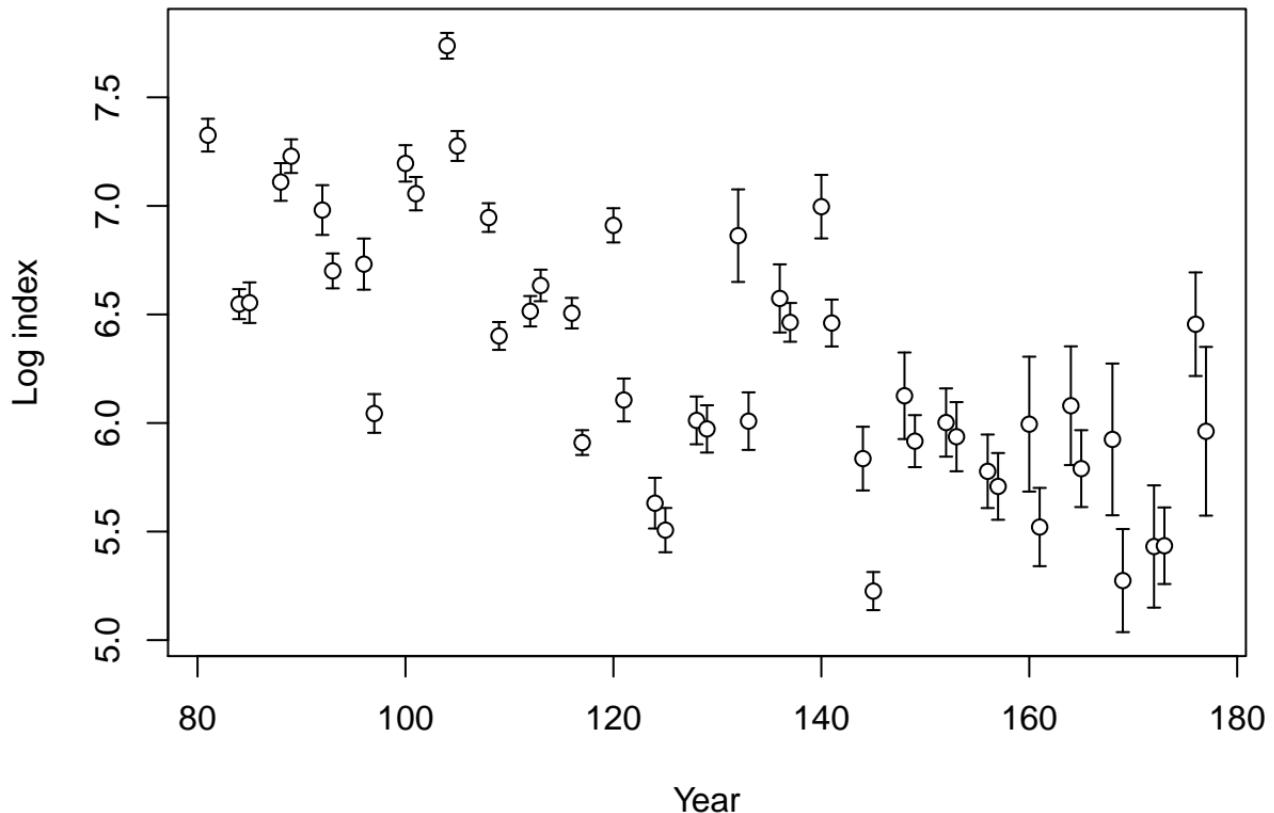


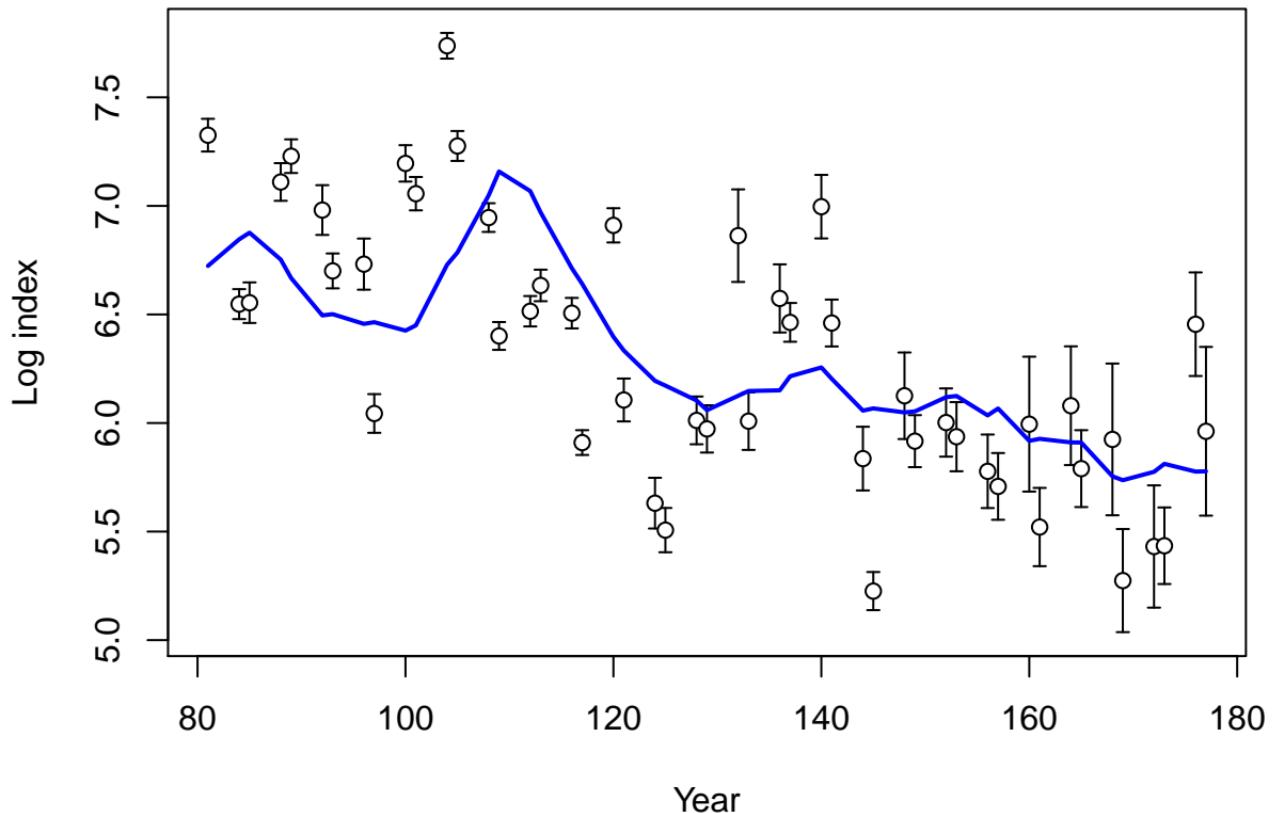


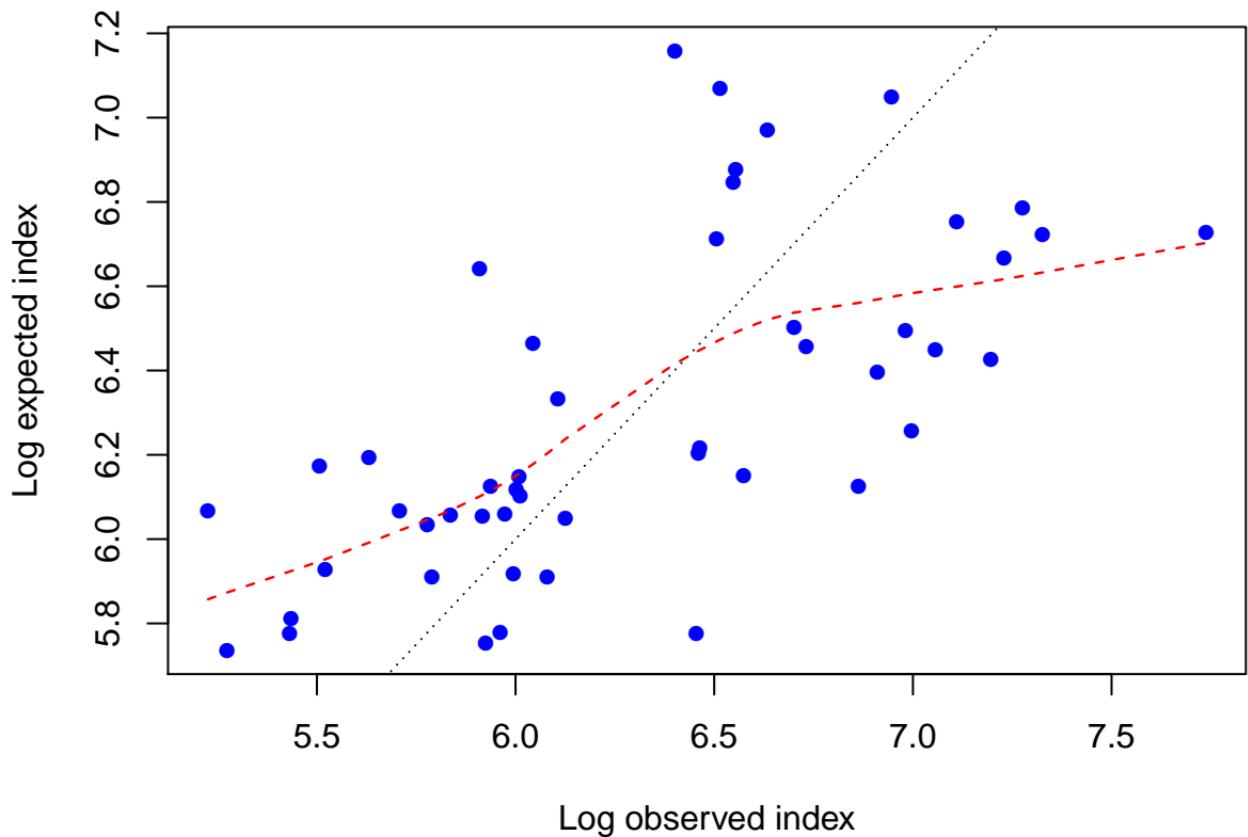


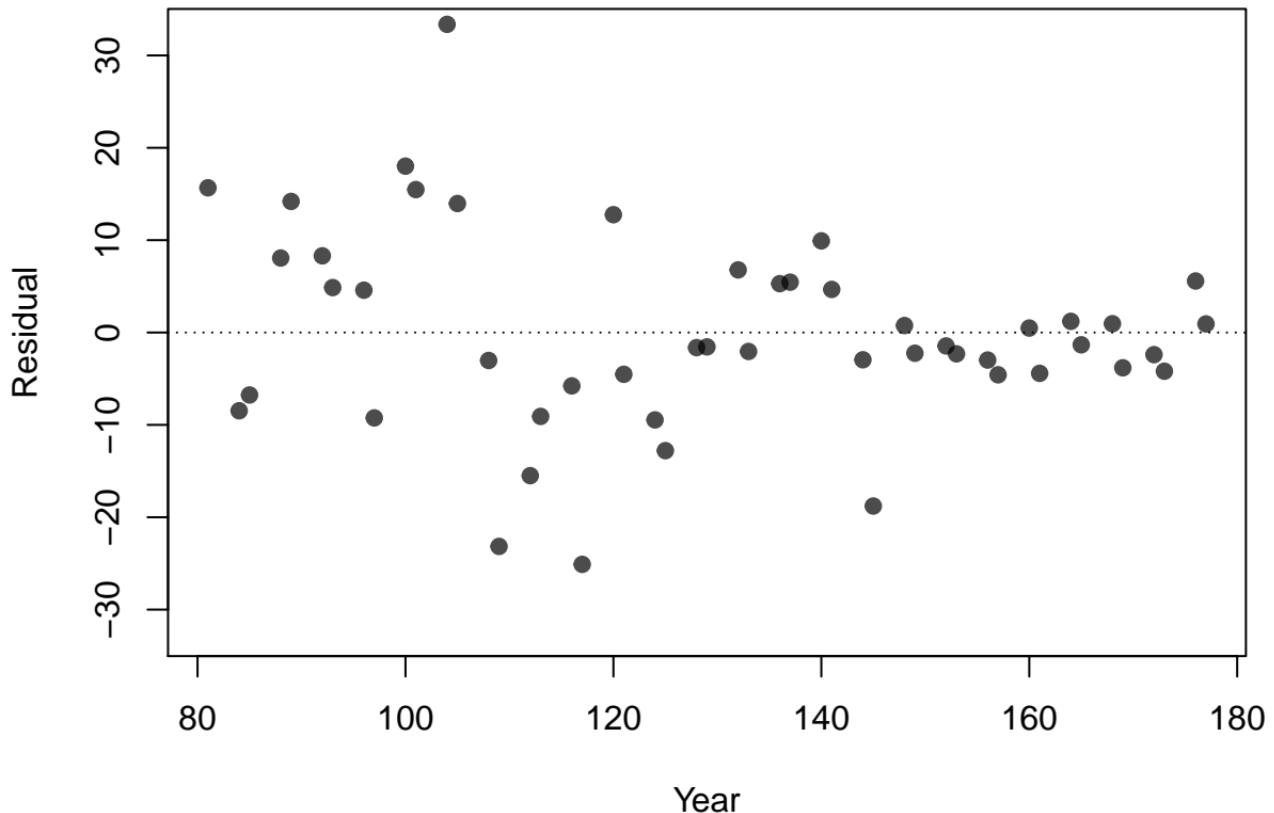


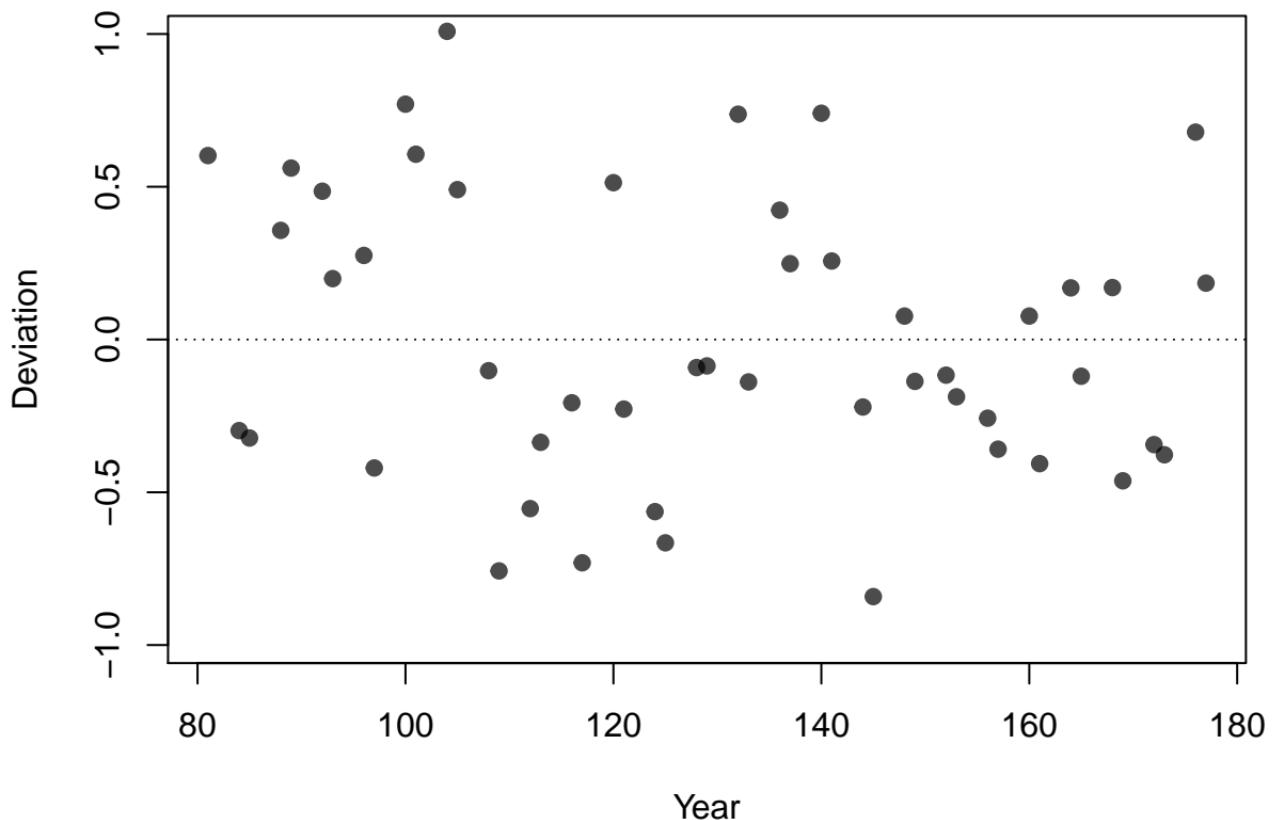


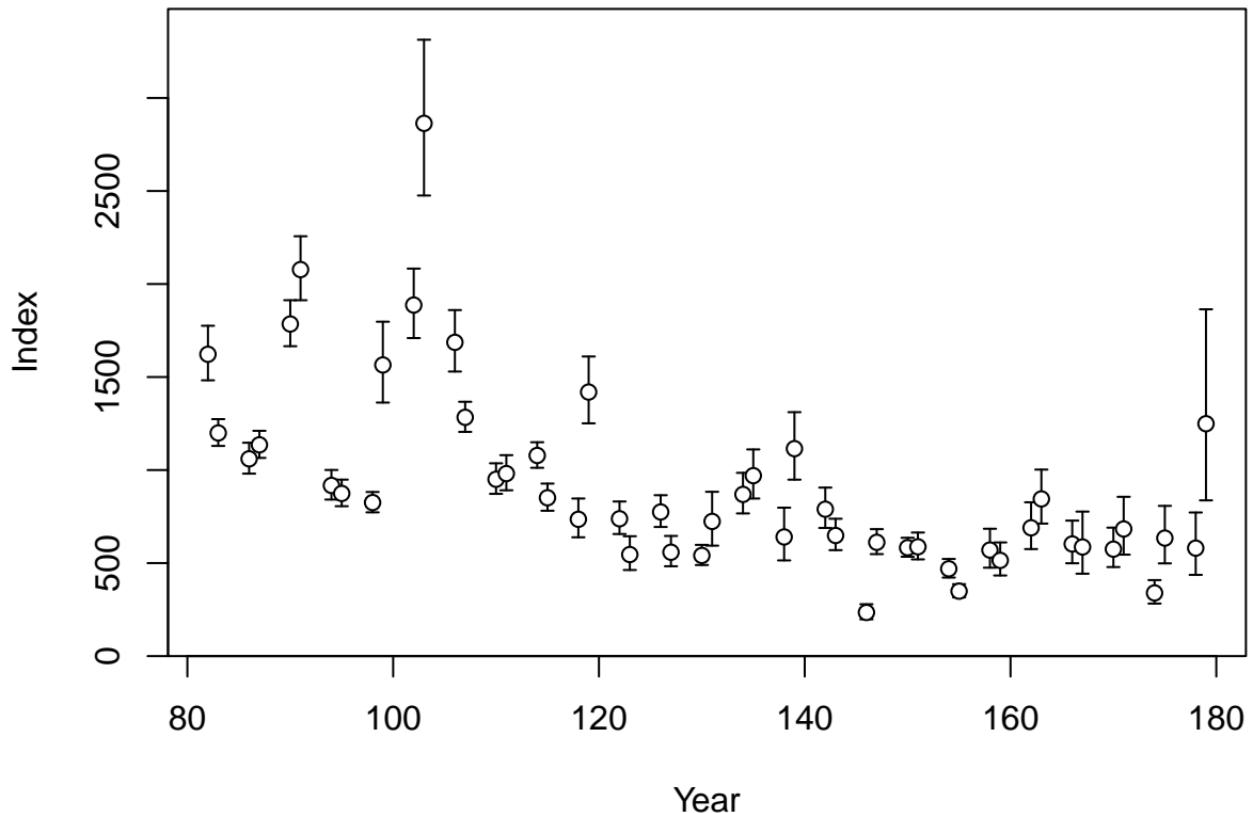


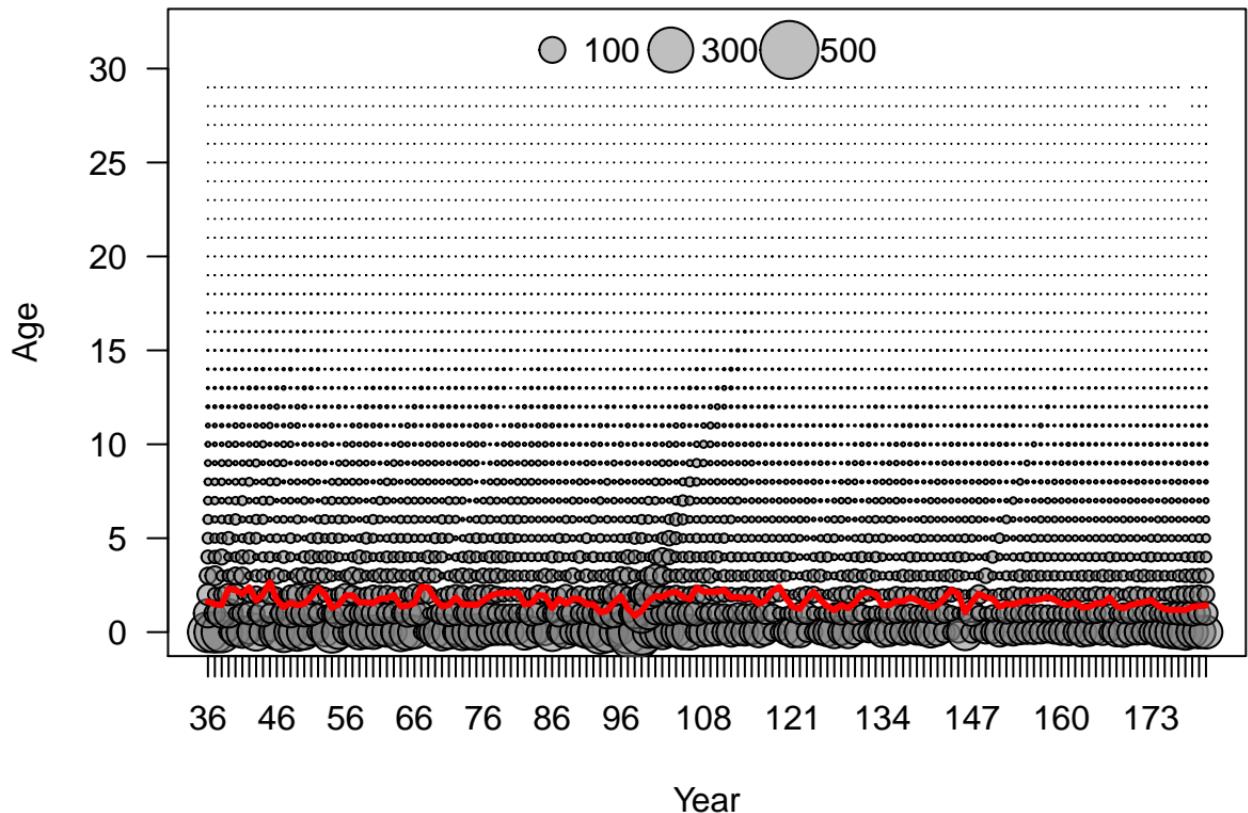


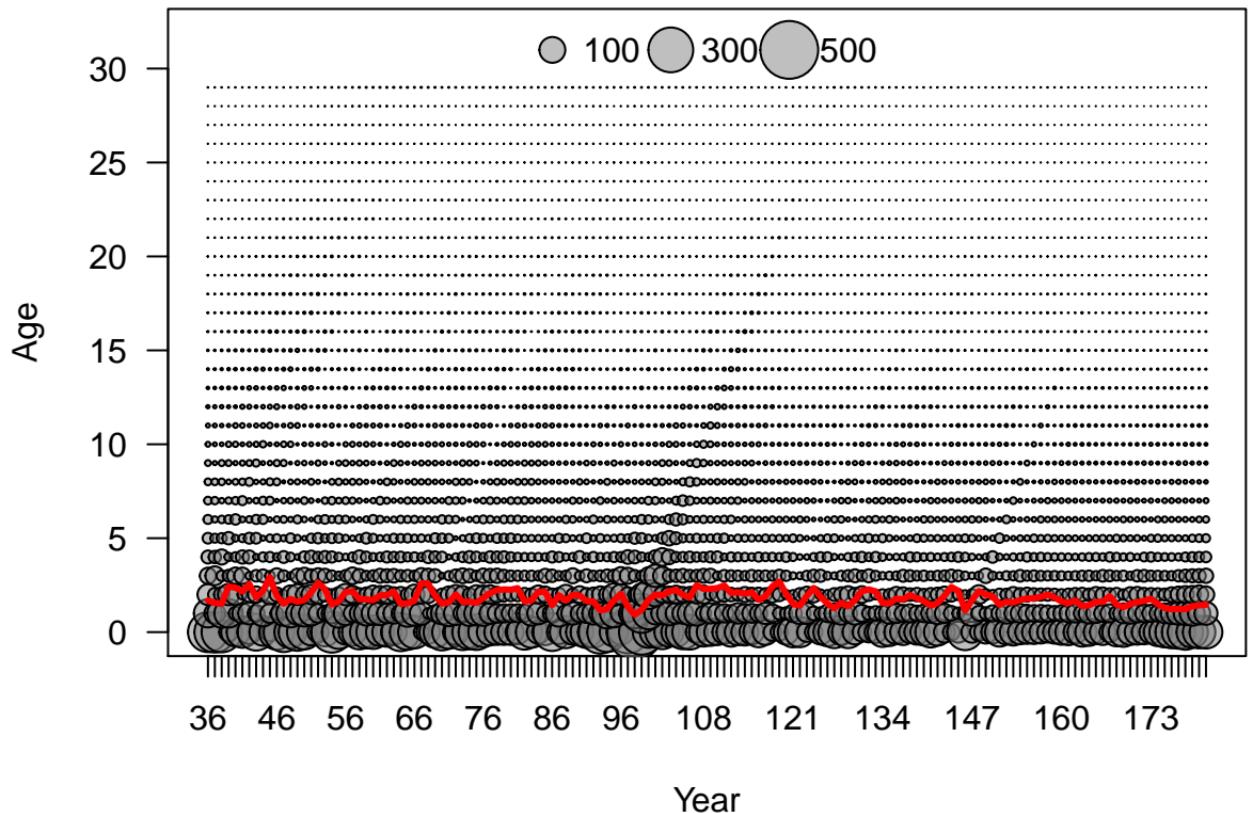


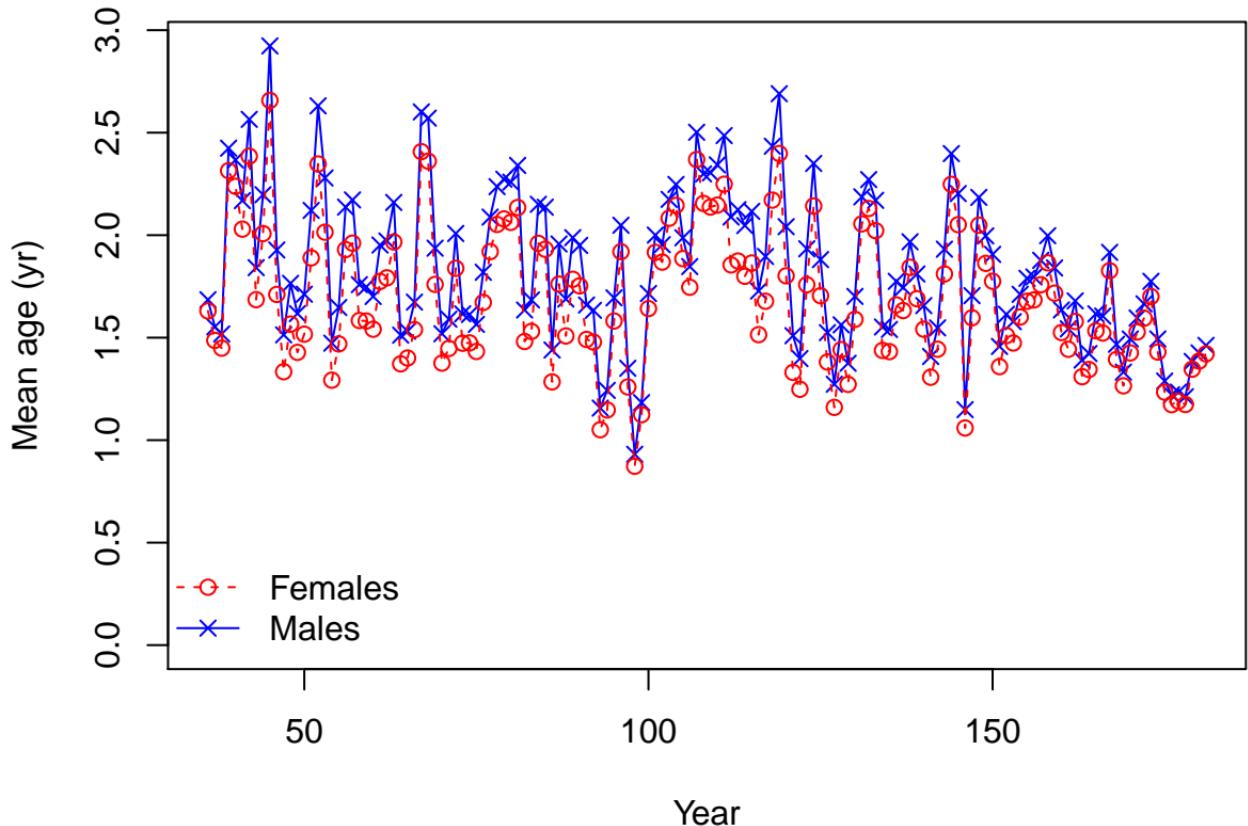


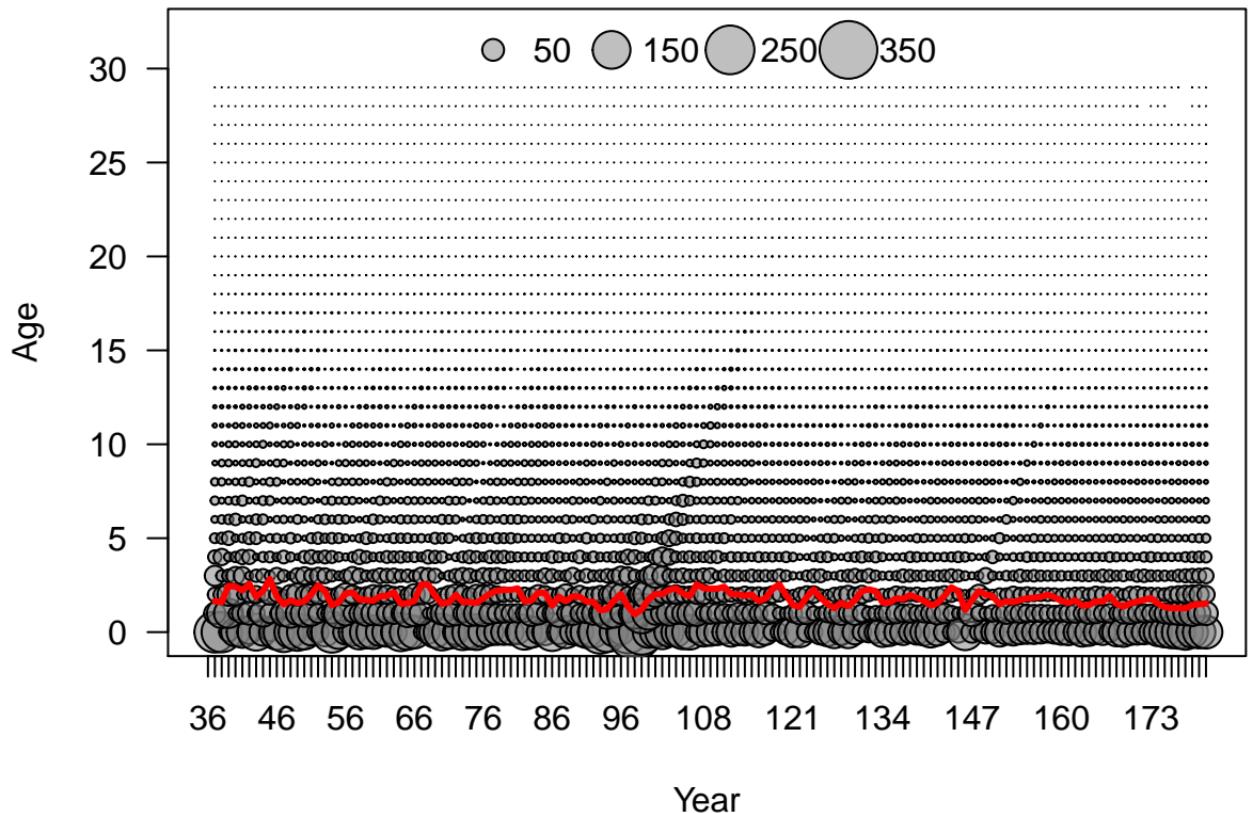


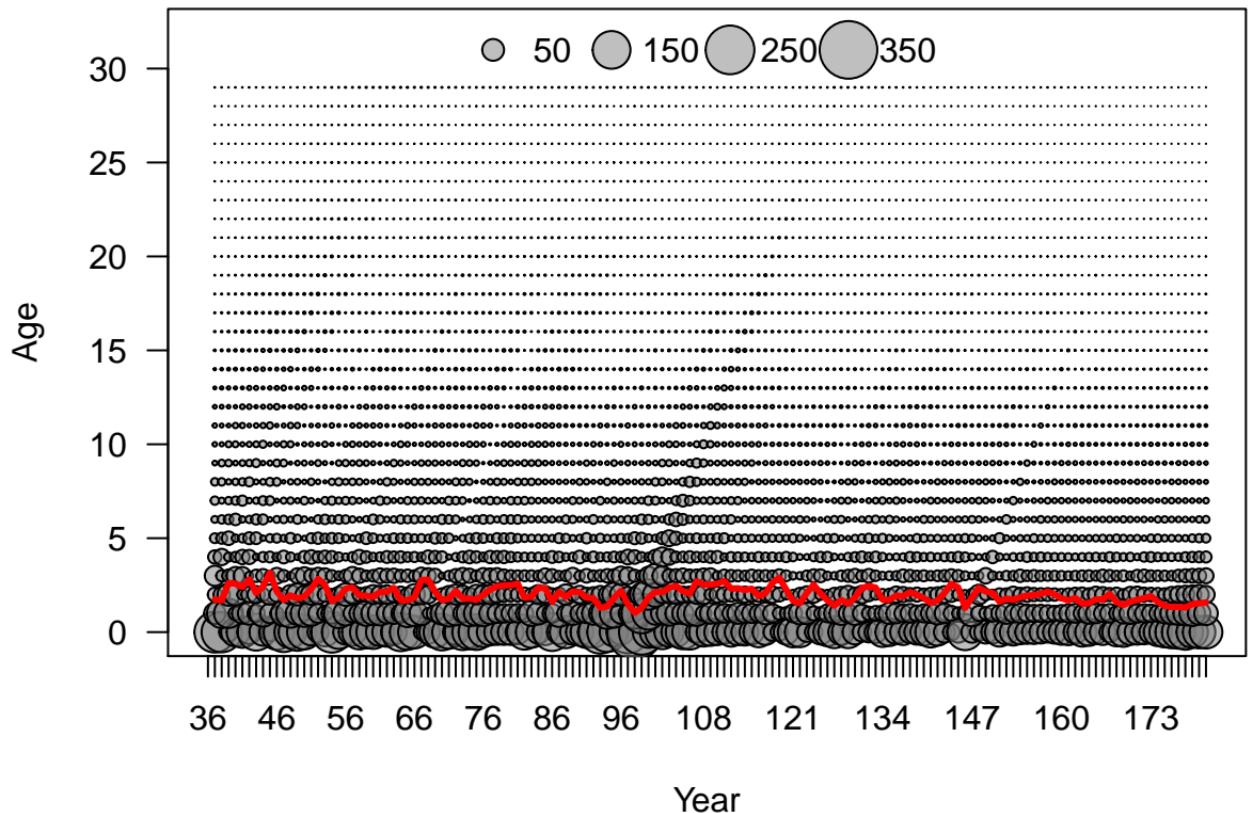


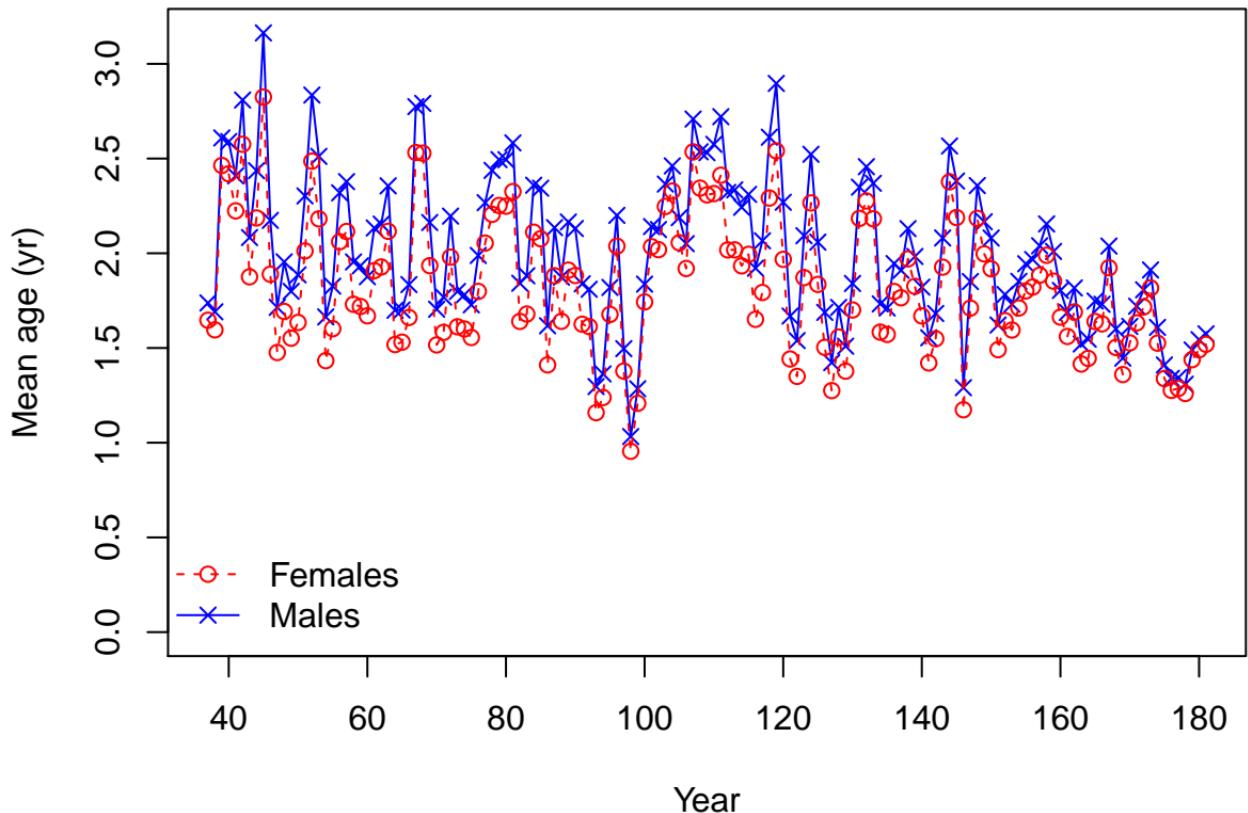


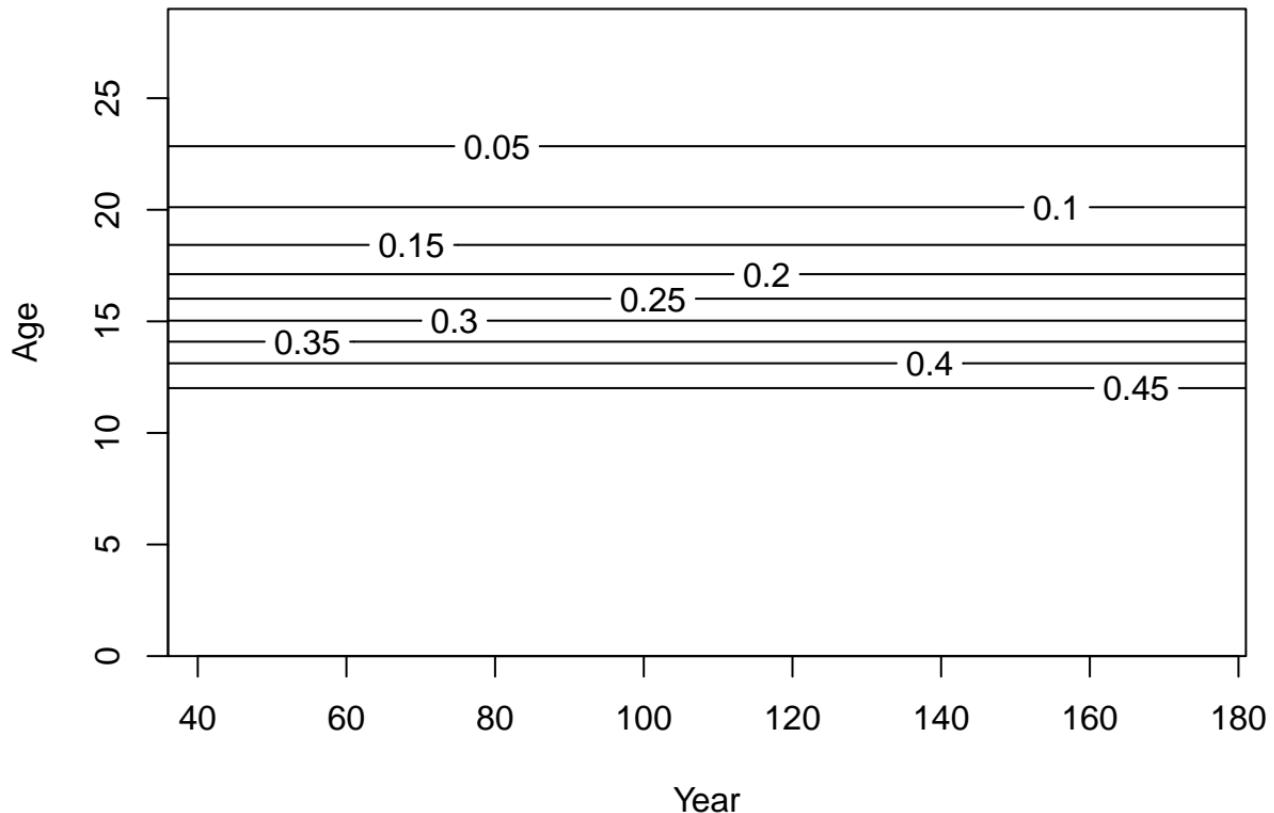


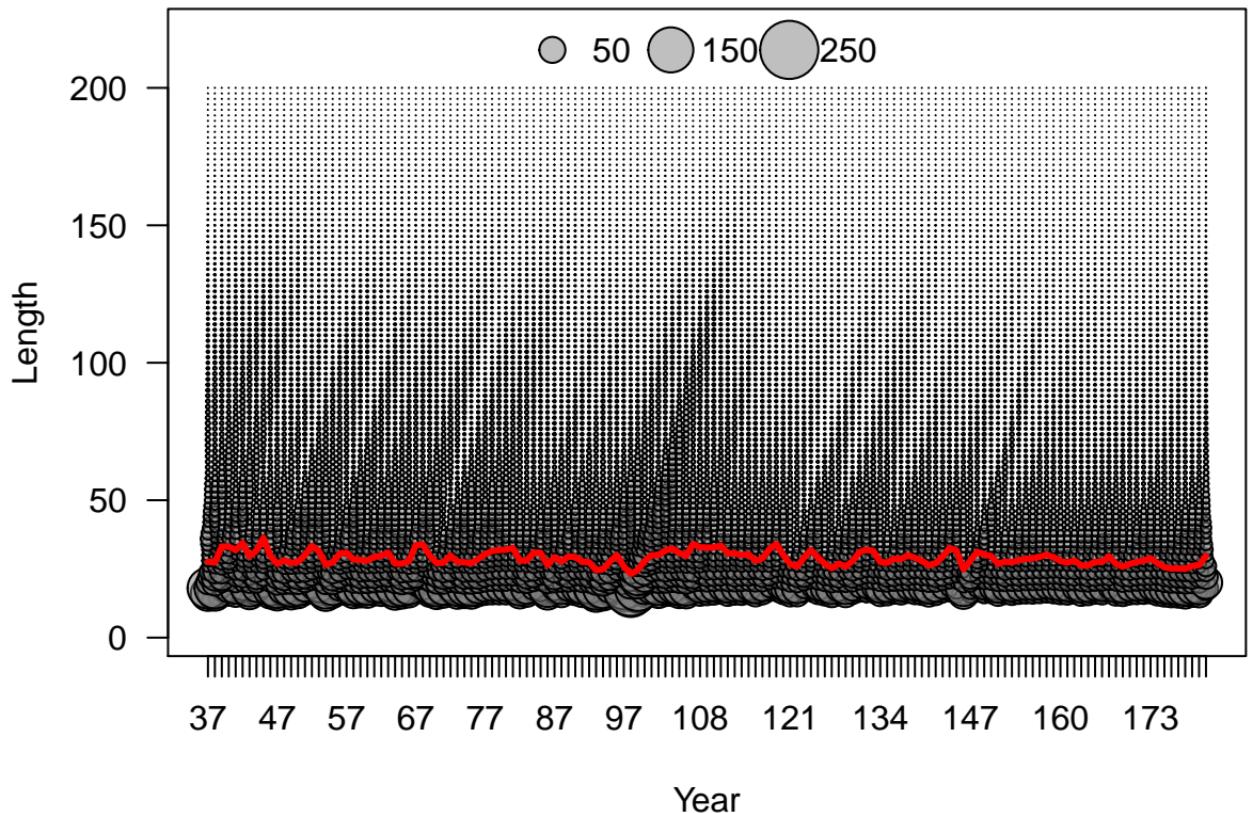


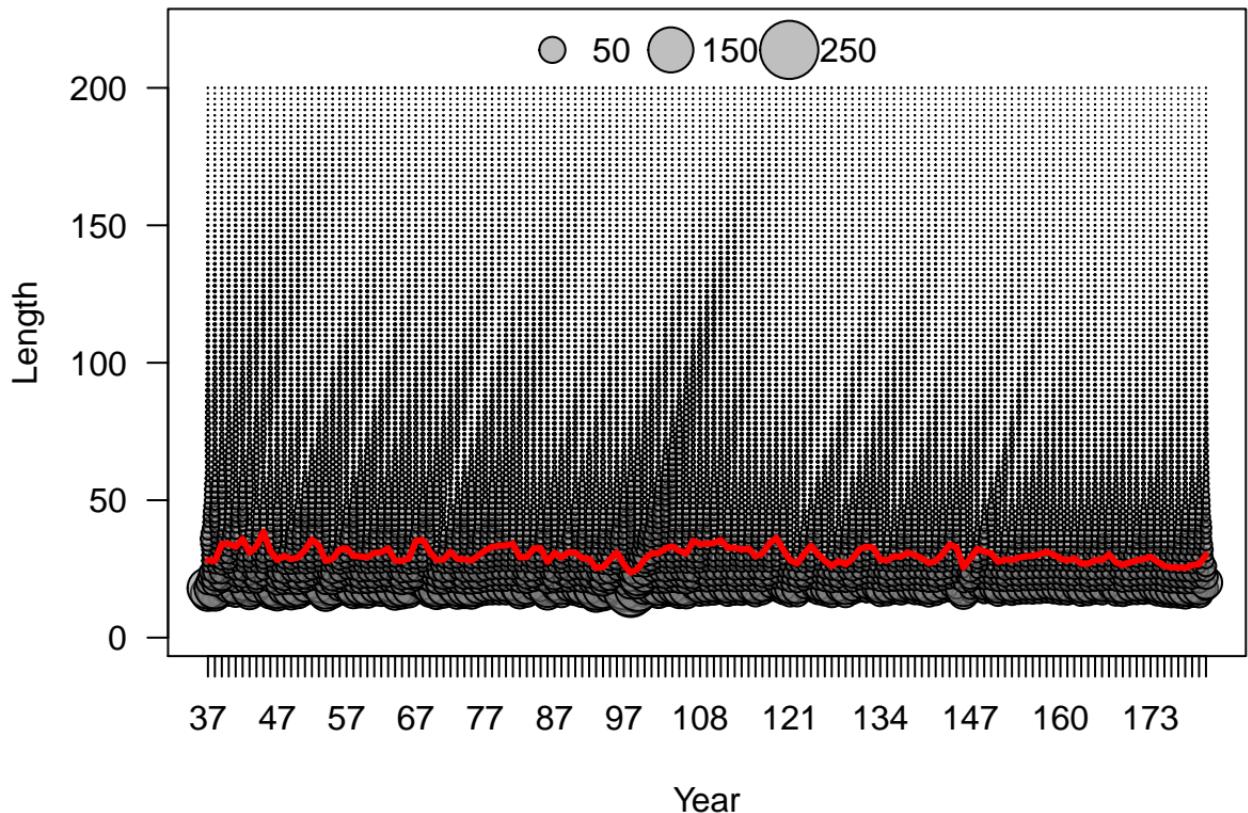


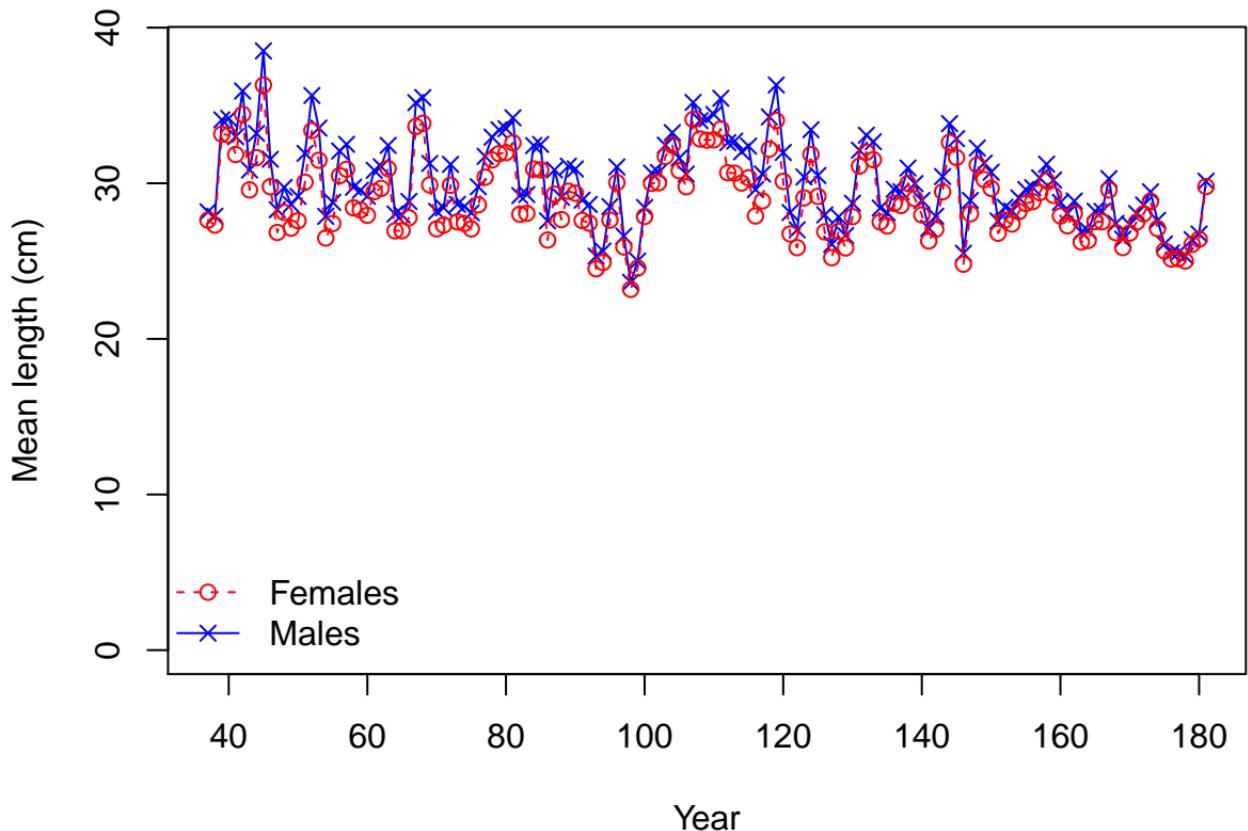


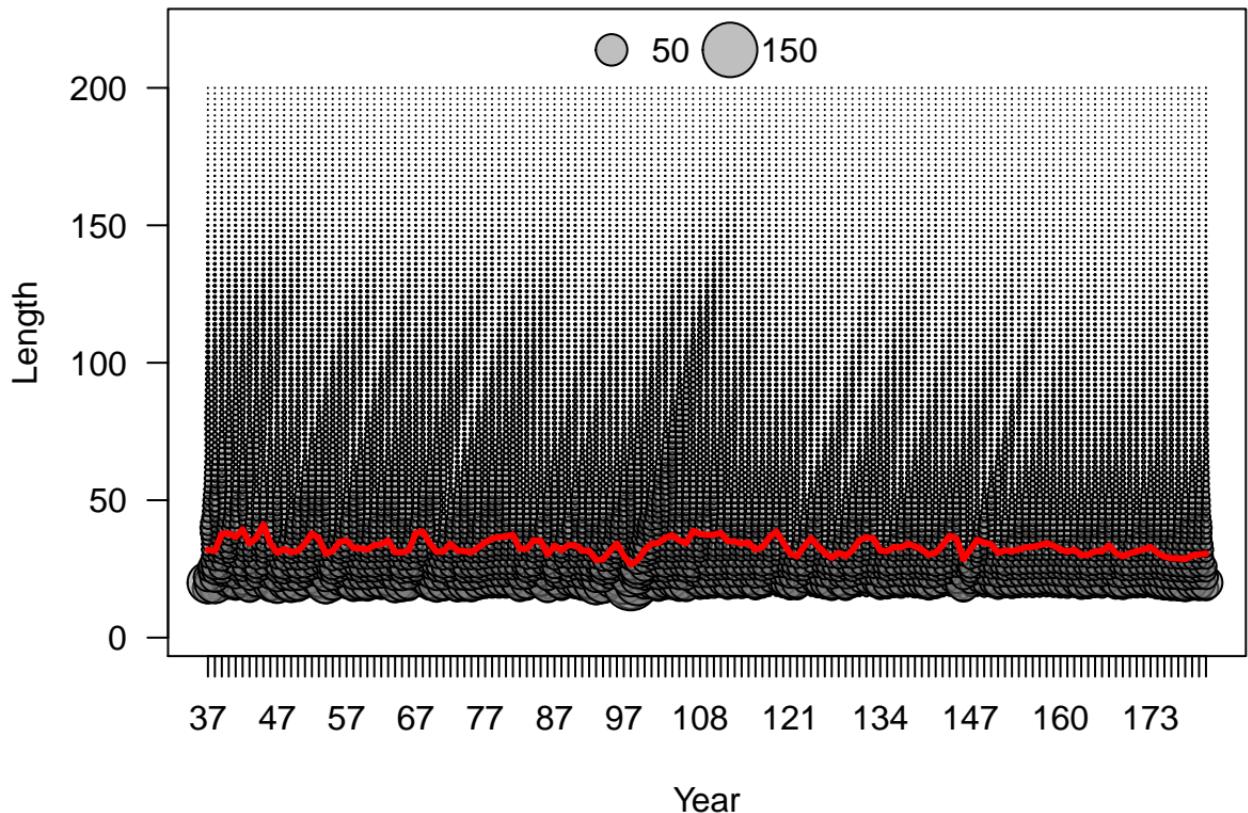


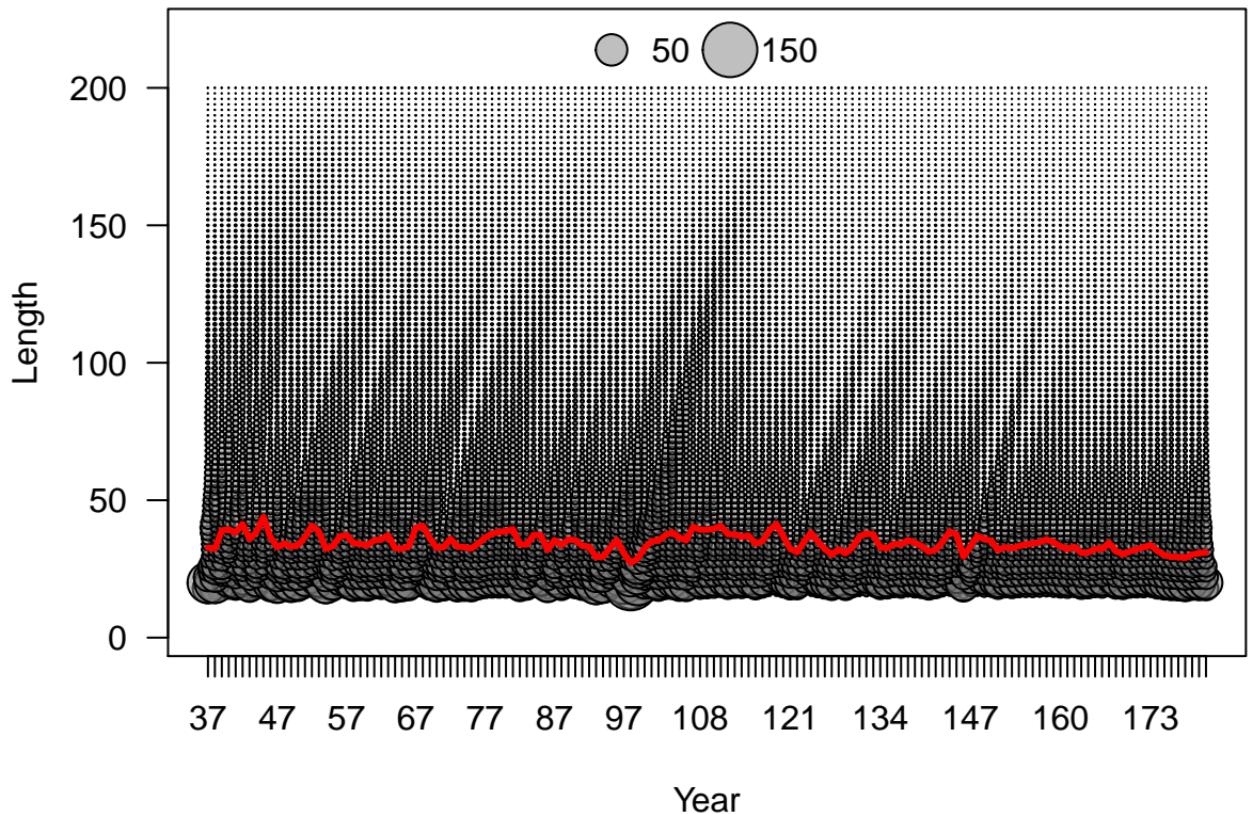


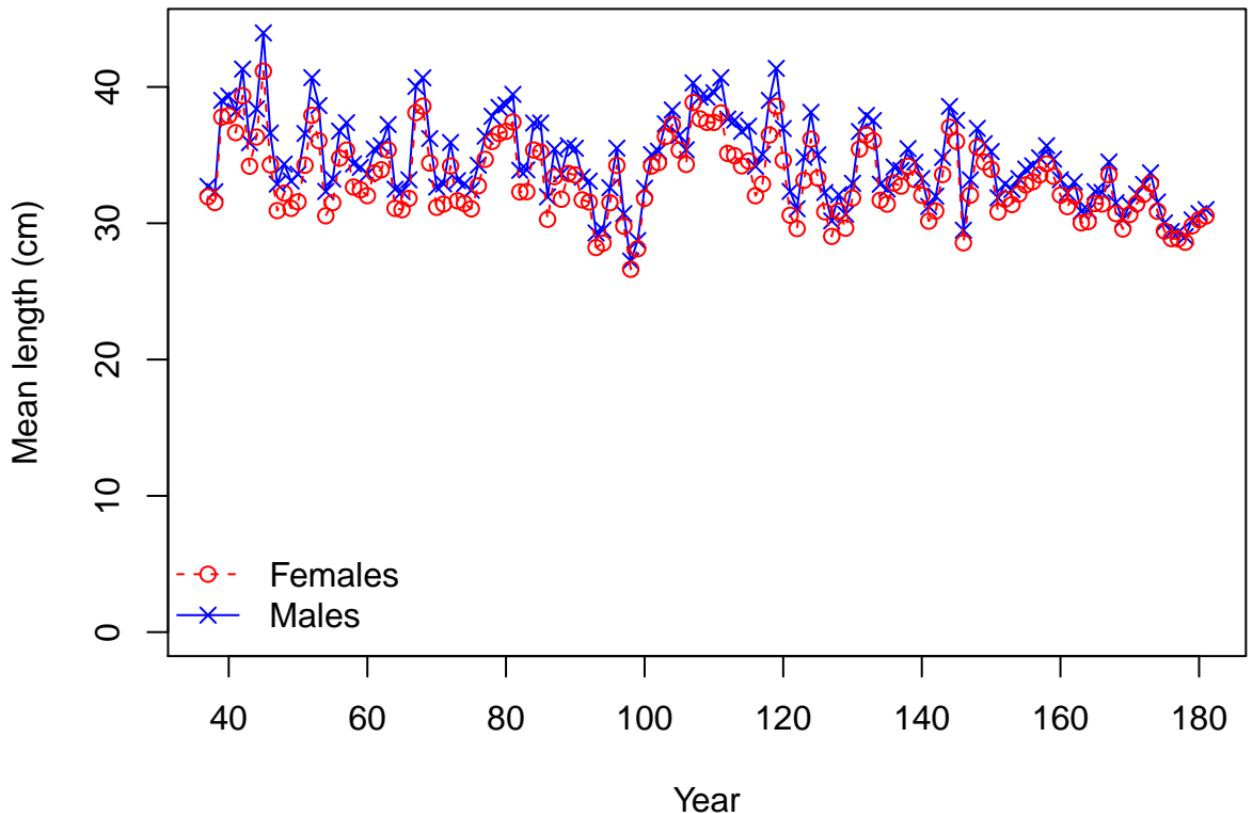


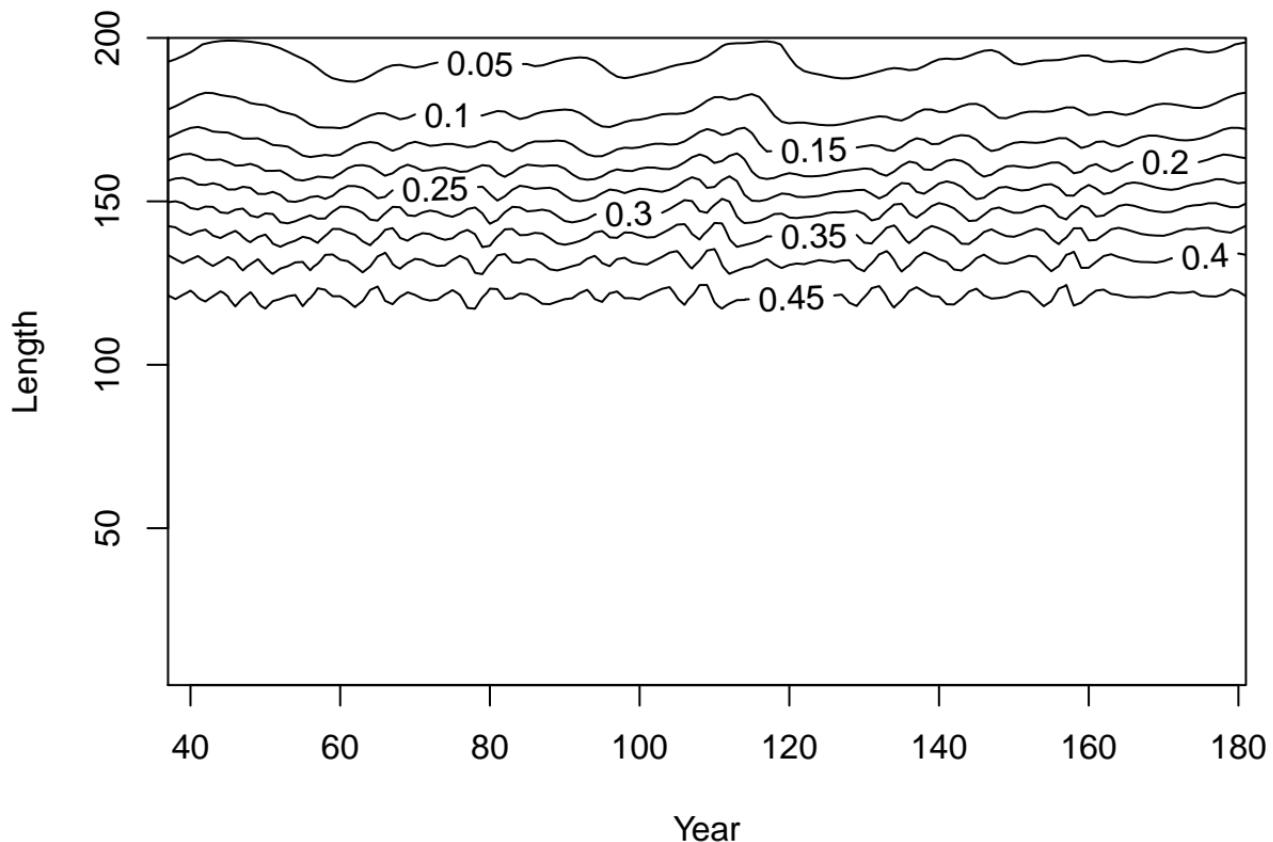




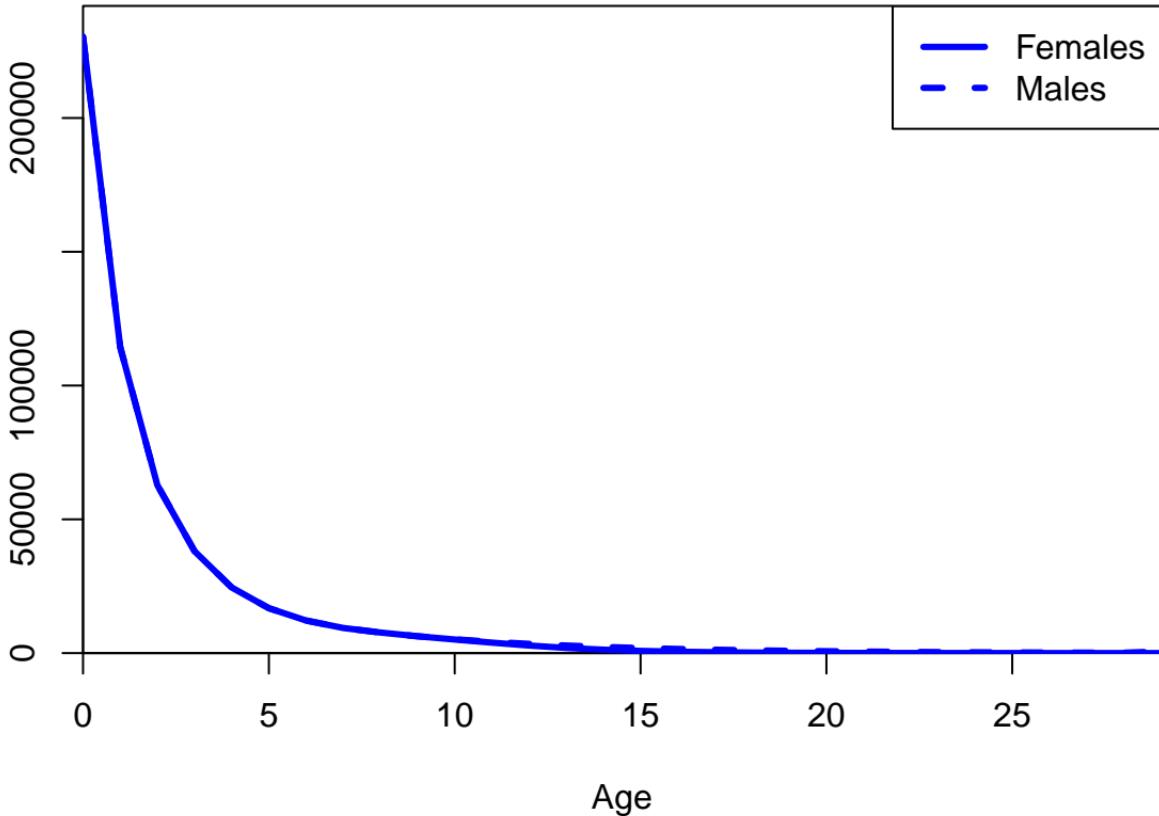


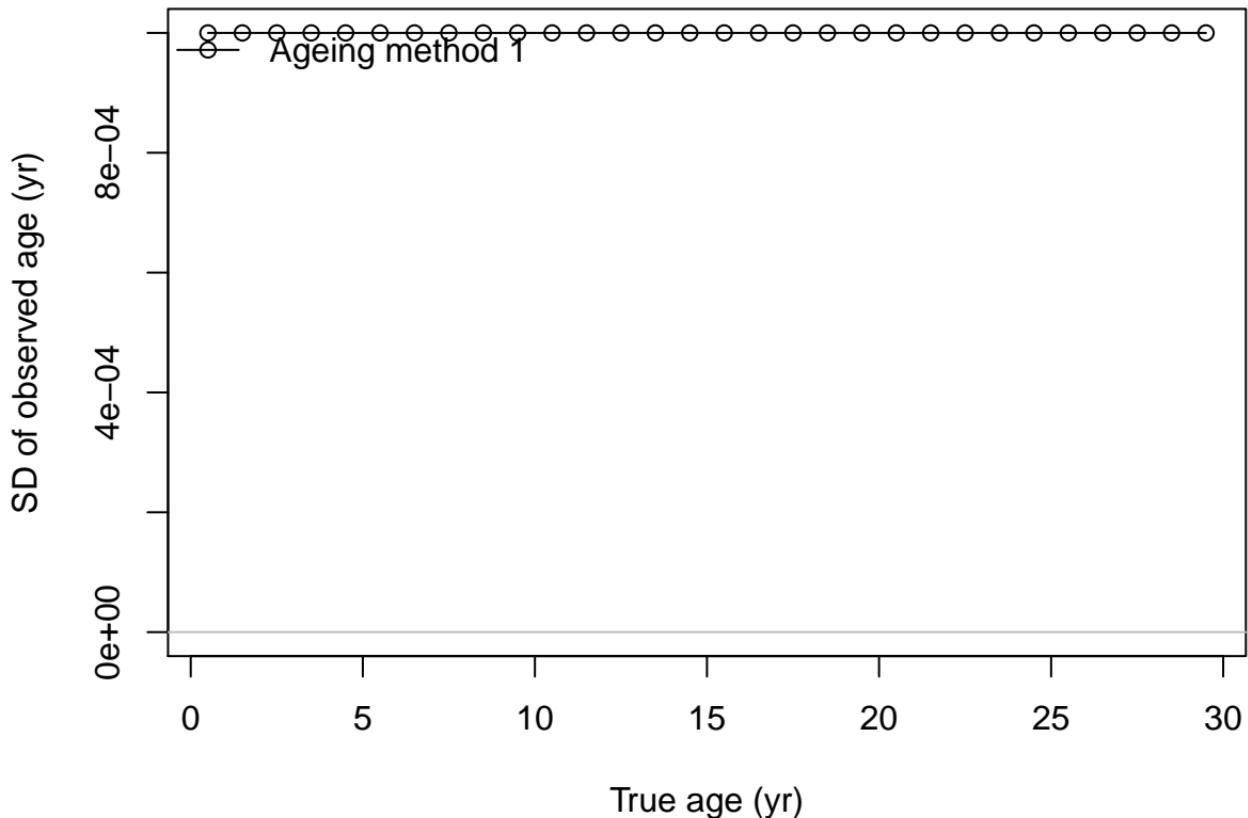


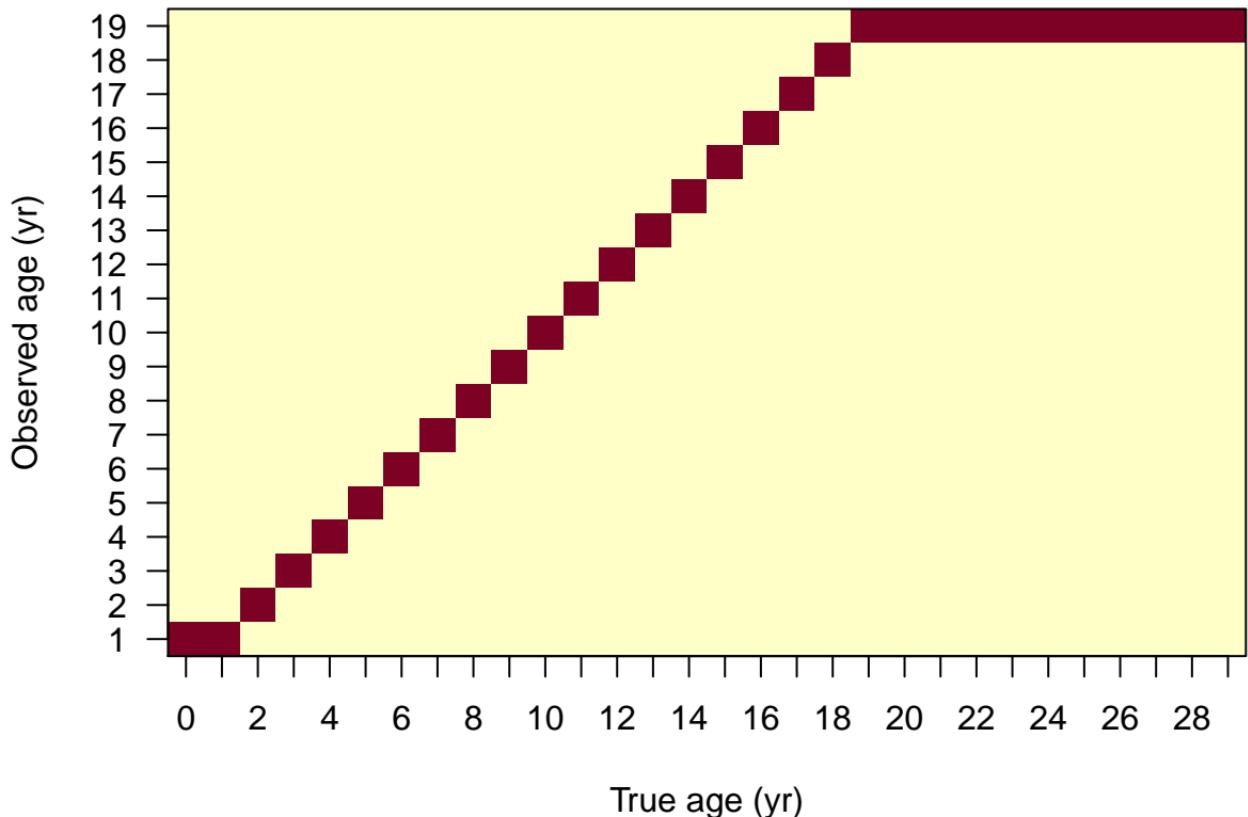


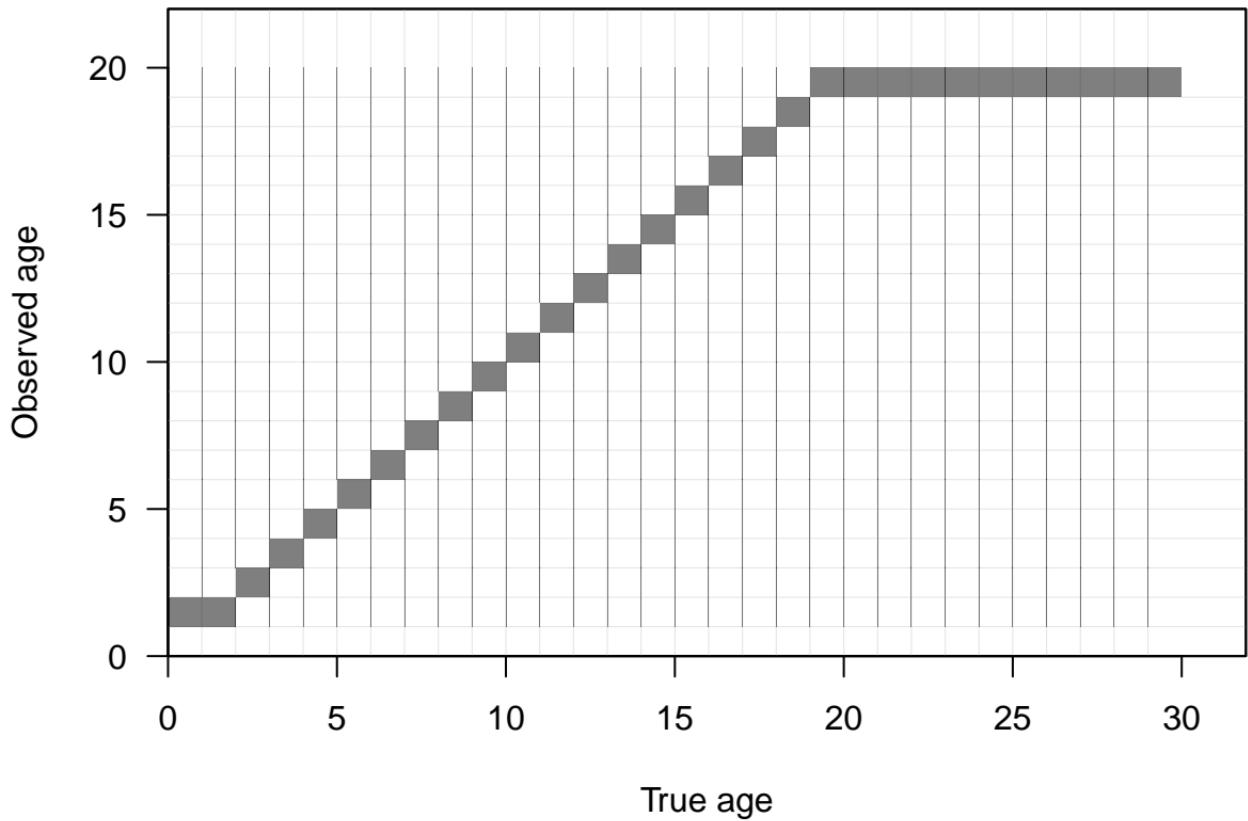


Numbers at age at equilibrium

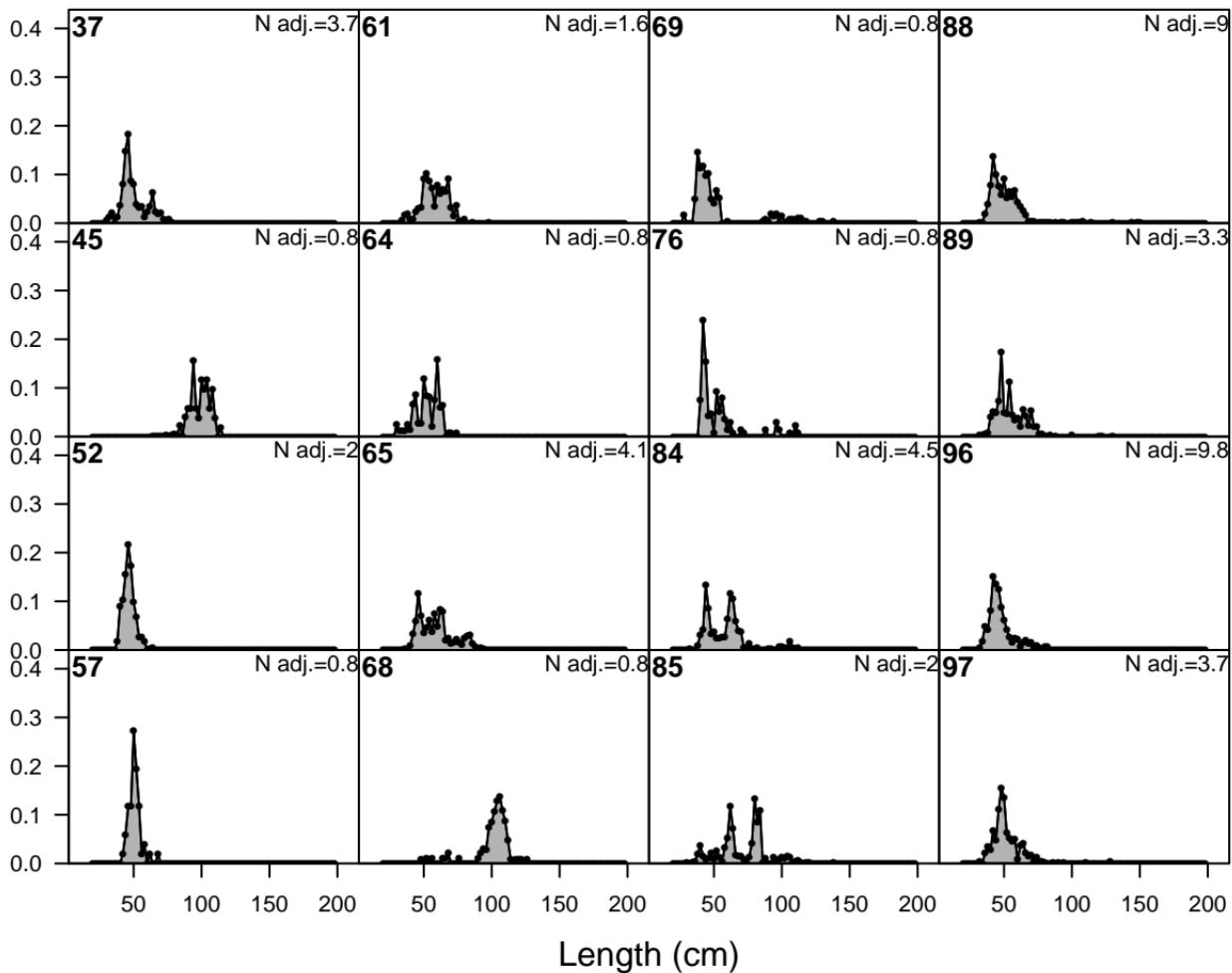




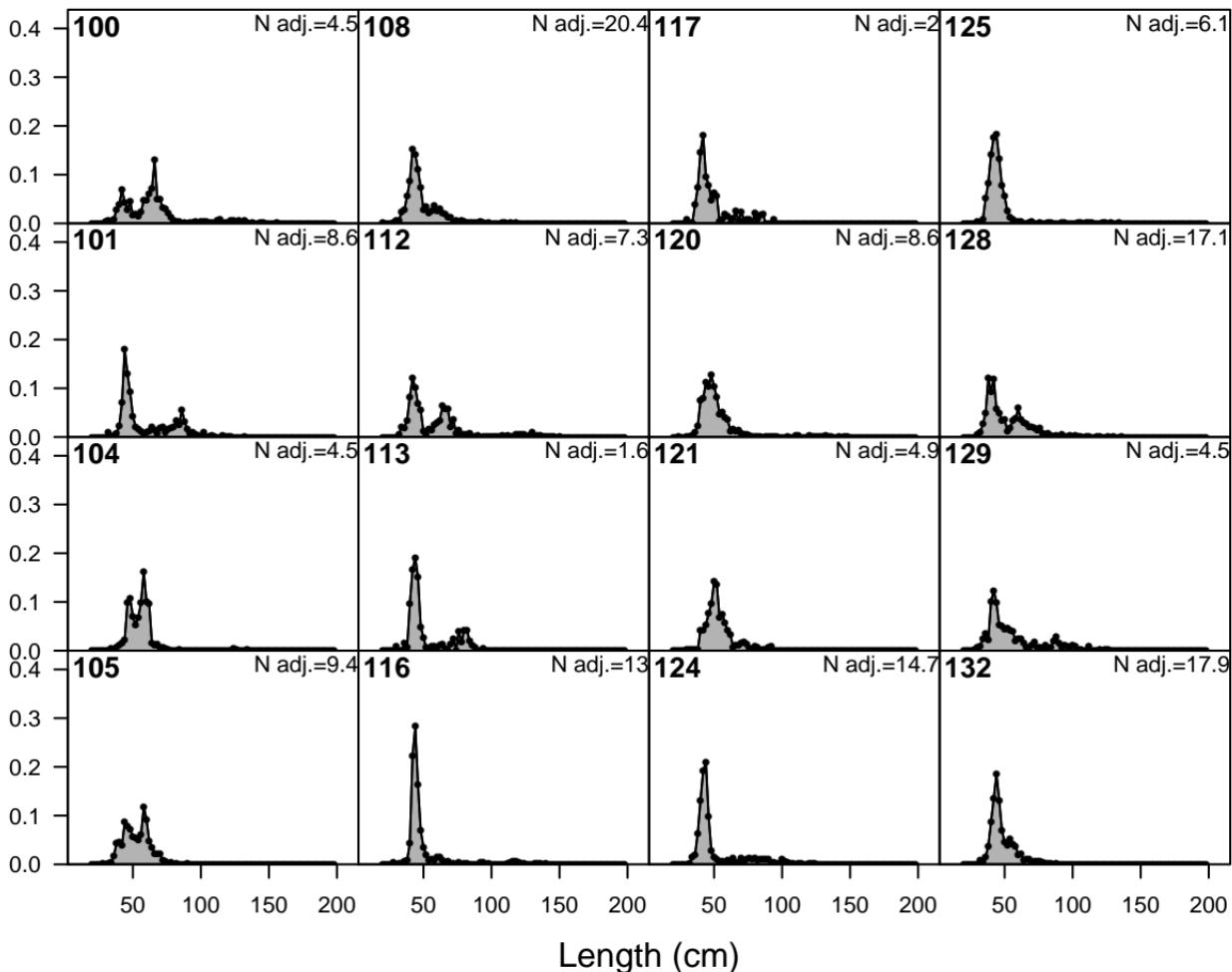




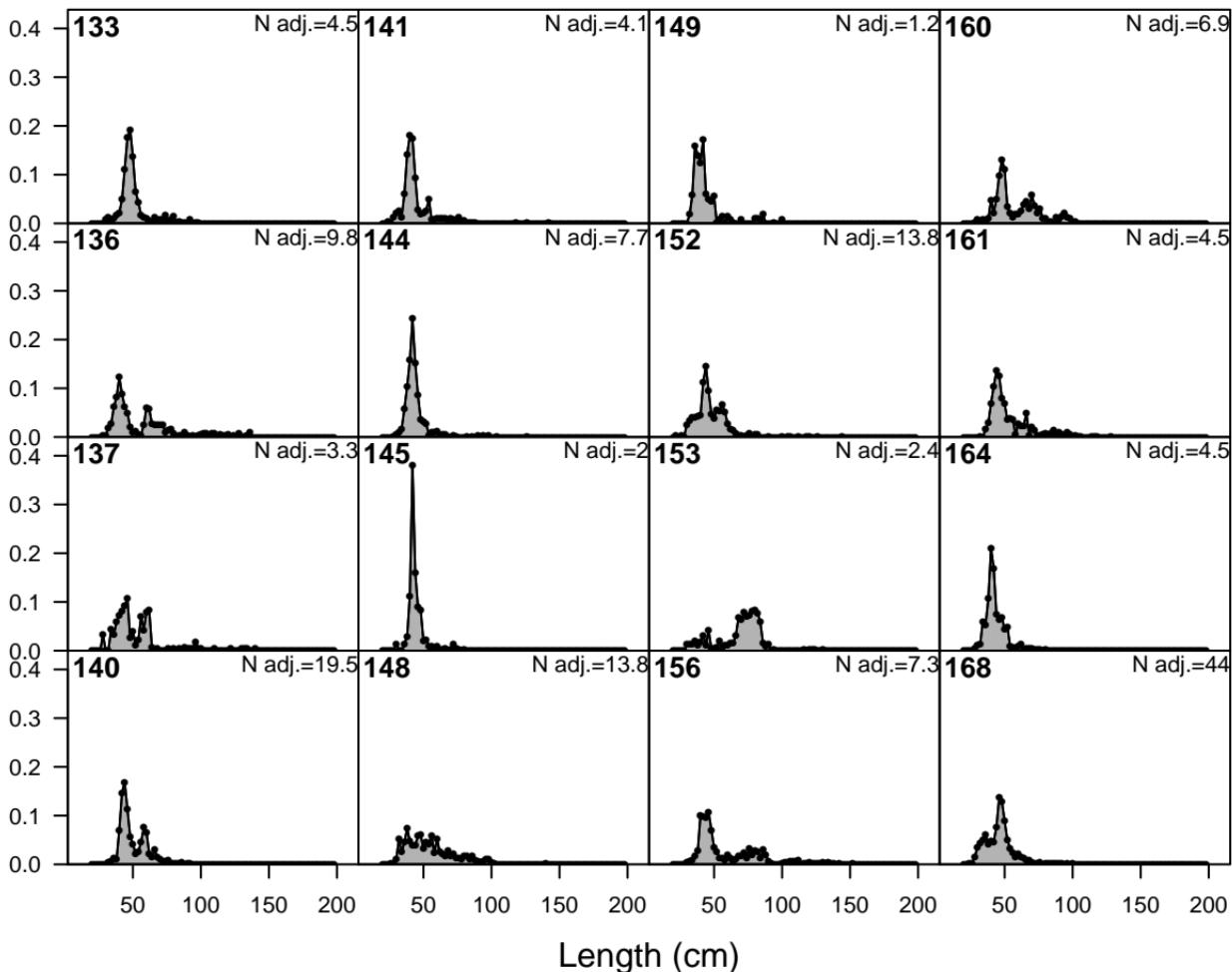
Proportion

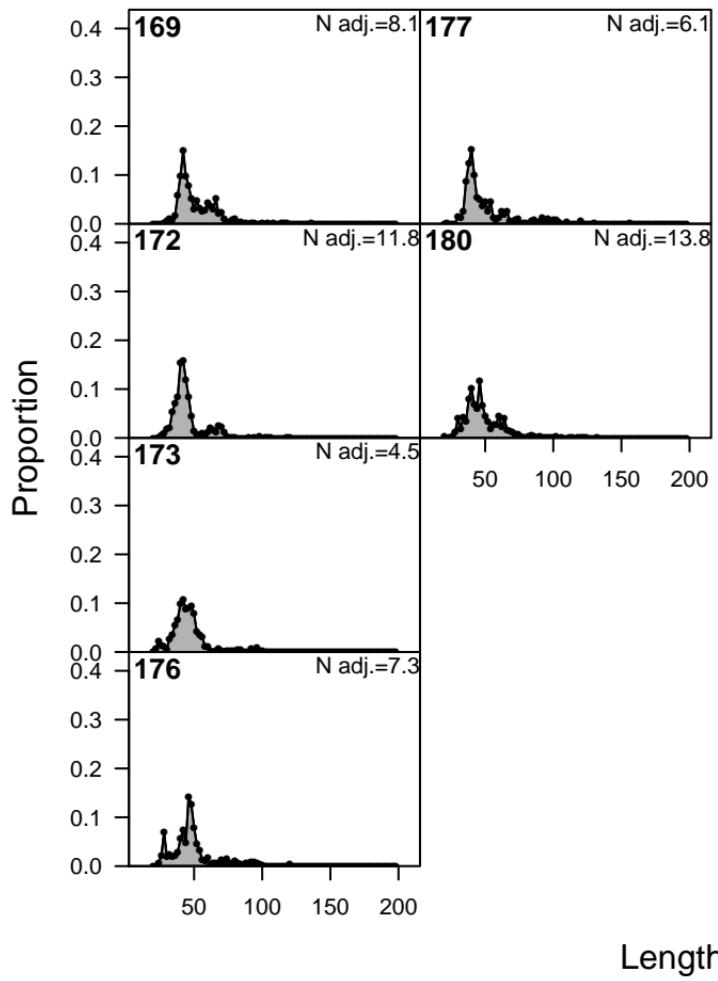


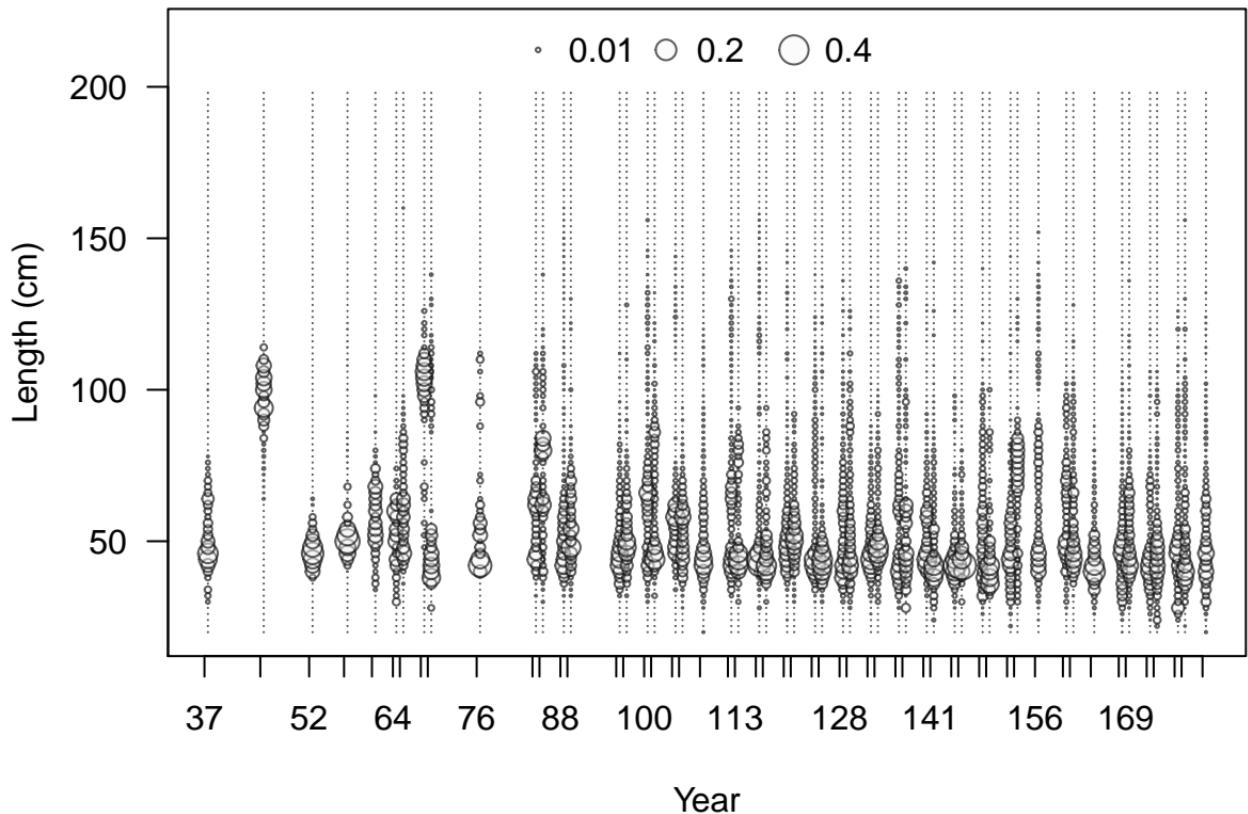
Proportion



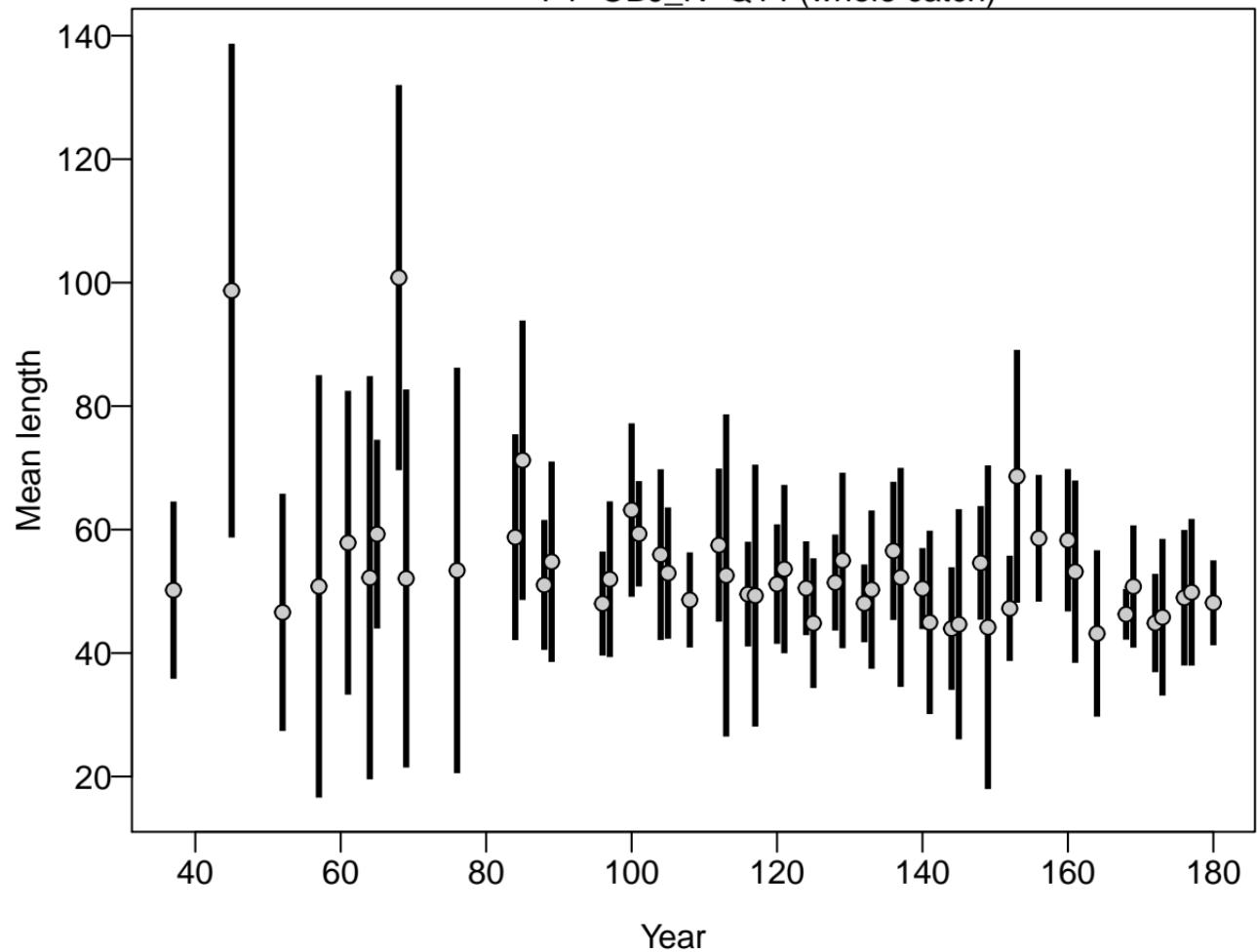
Proportion

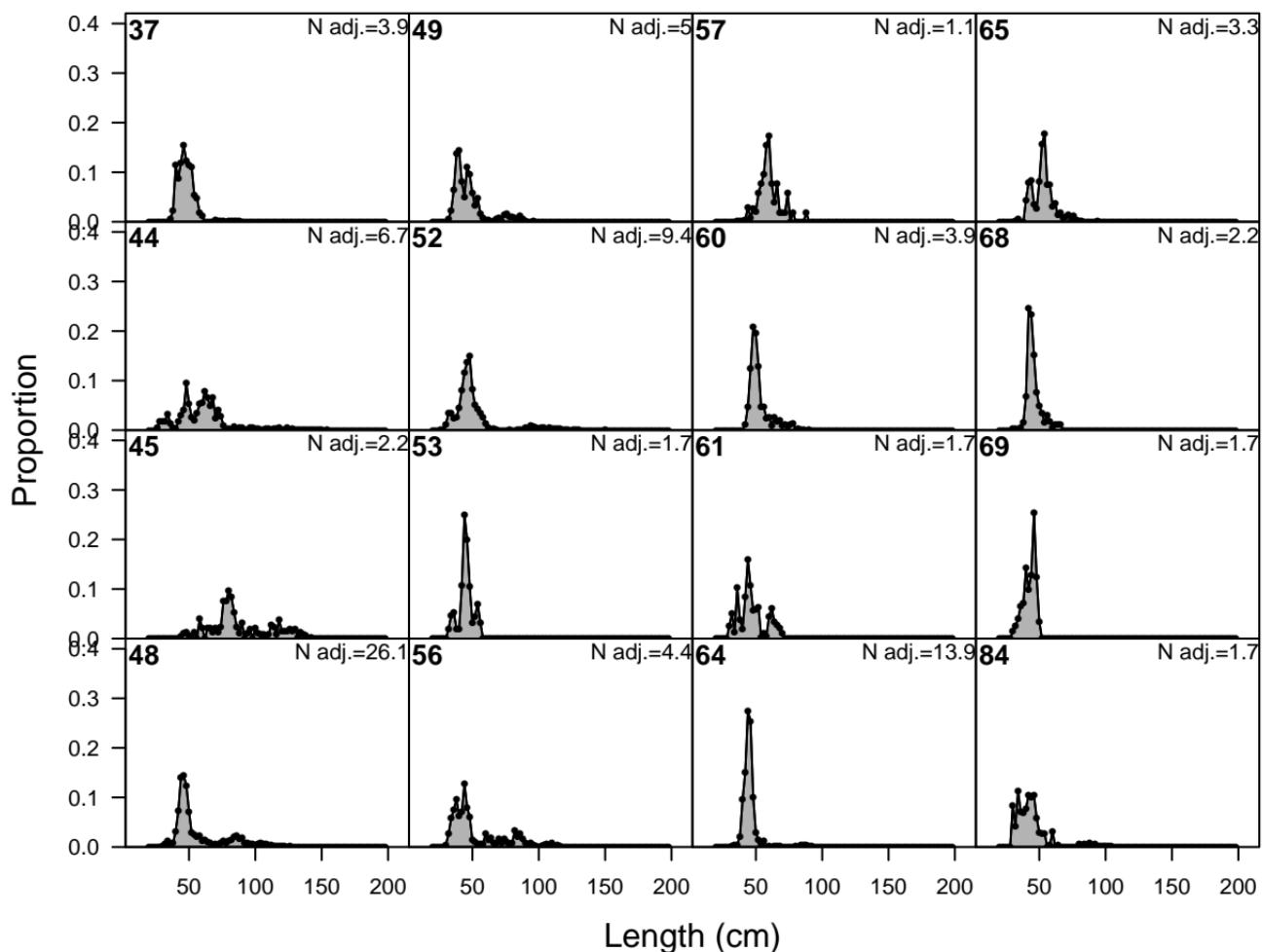




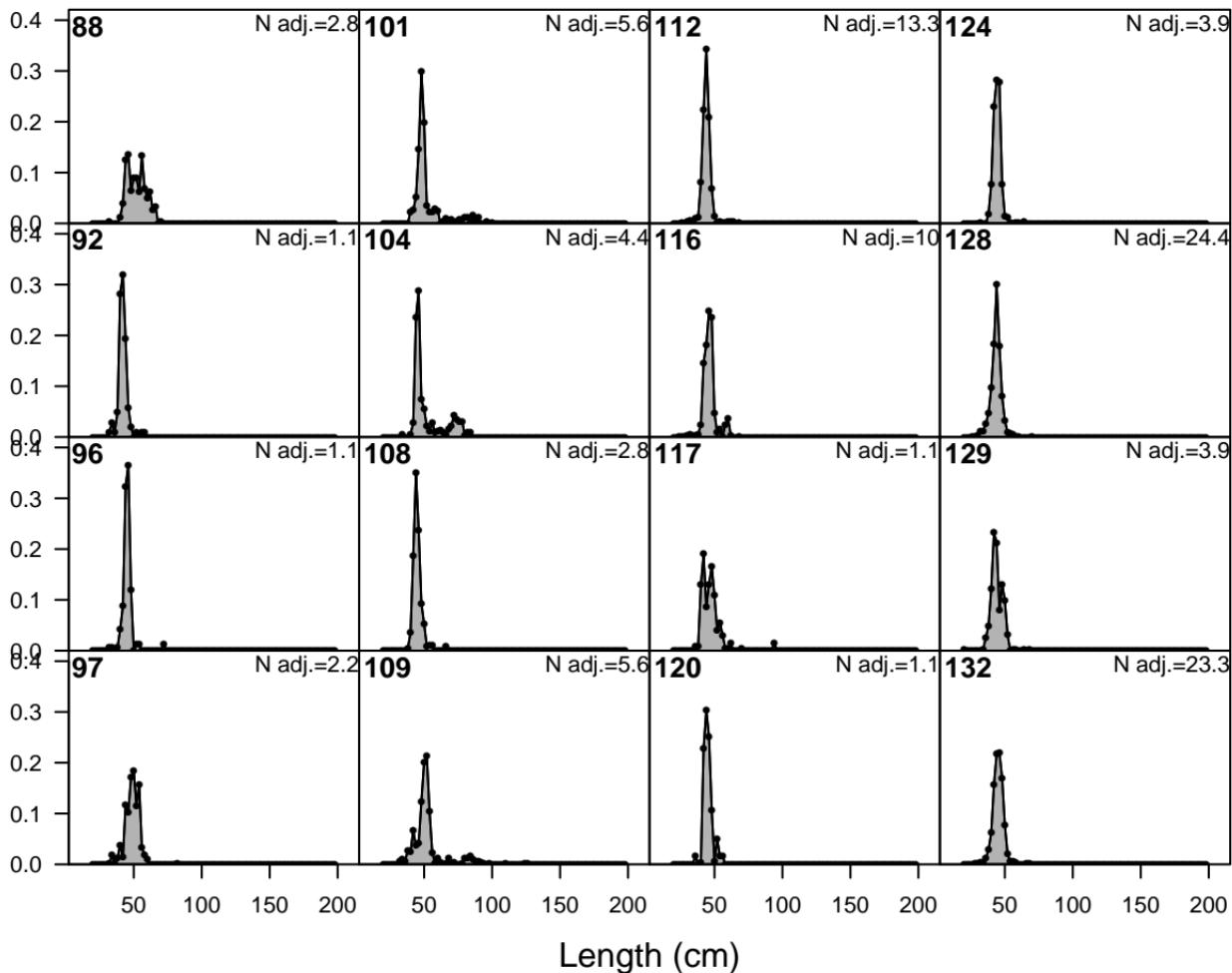


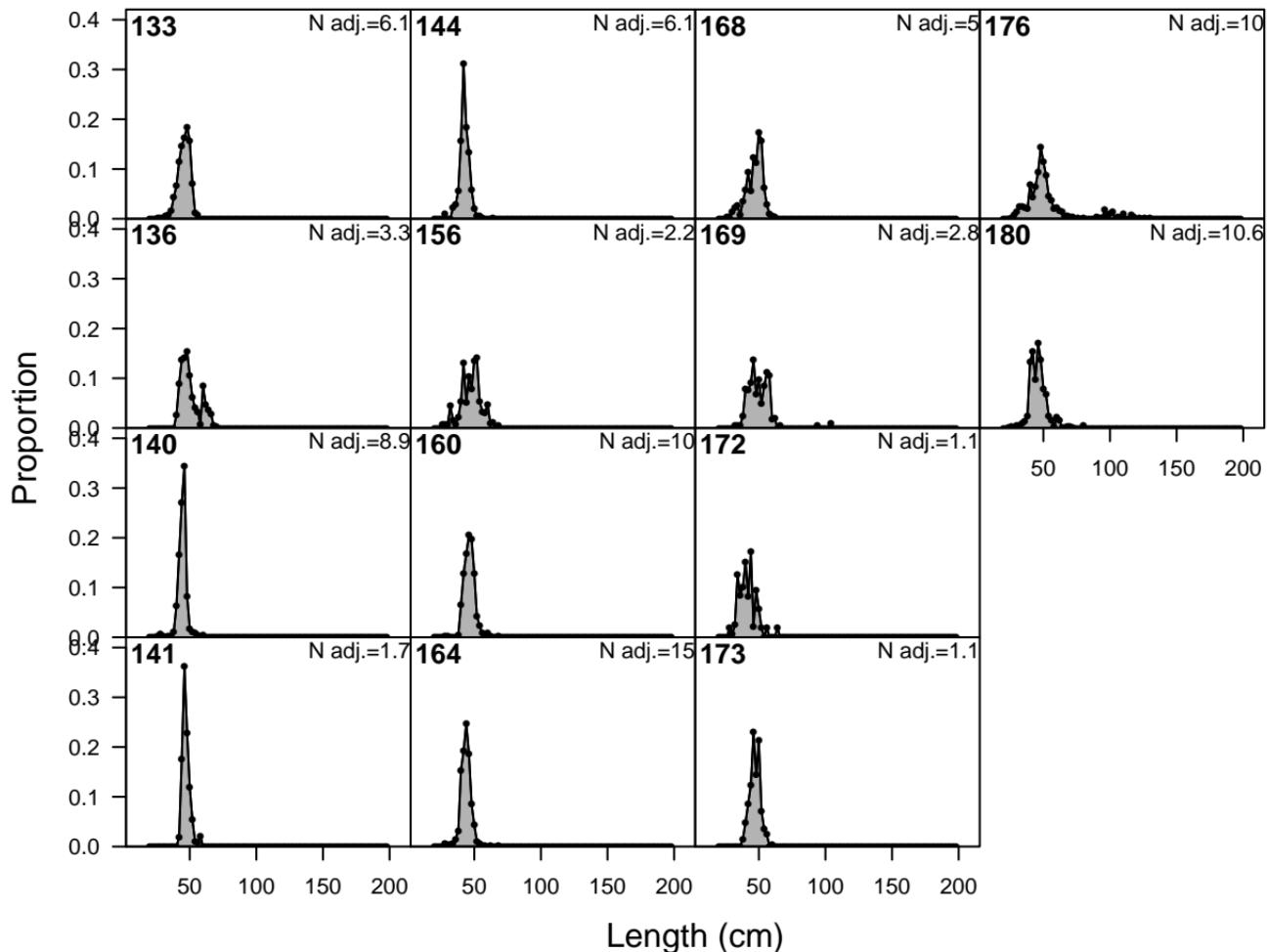
F1-OBJ_N-Q14 (whole catch)

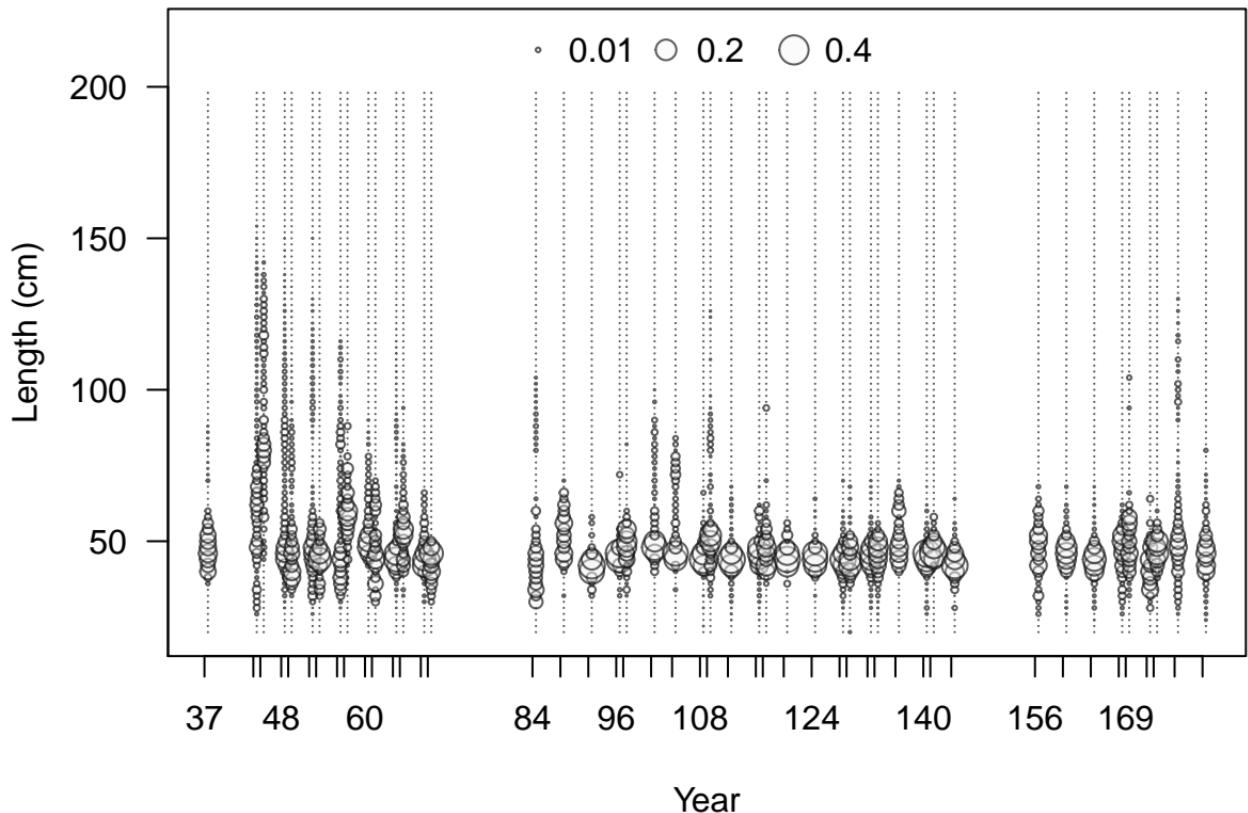




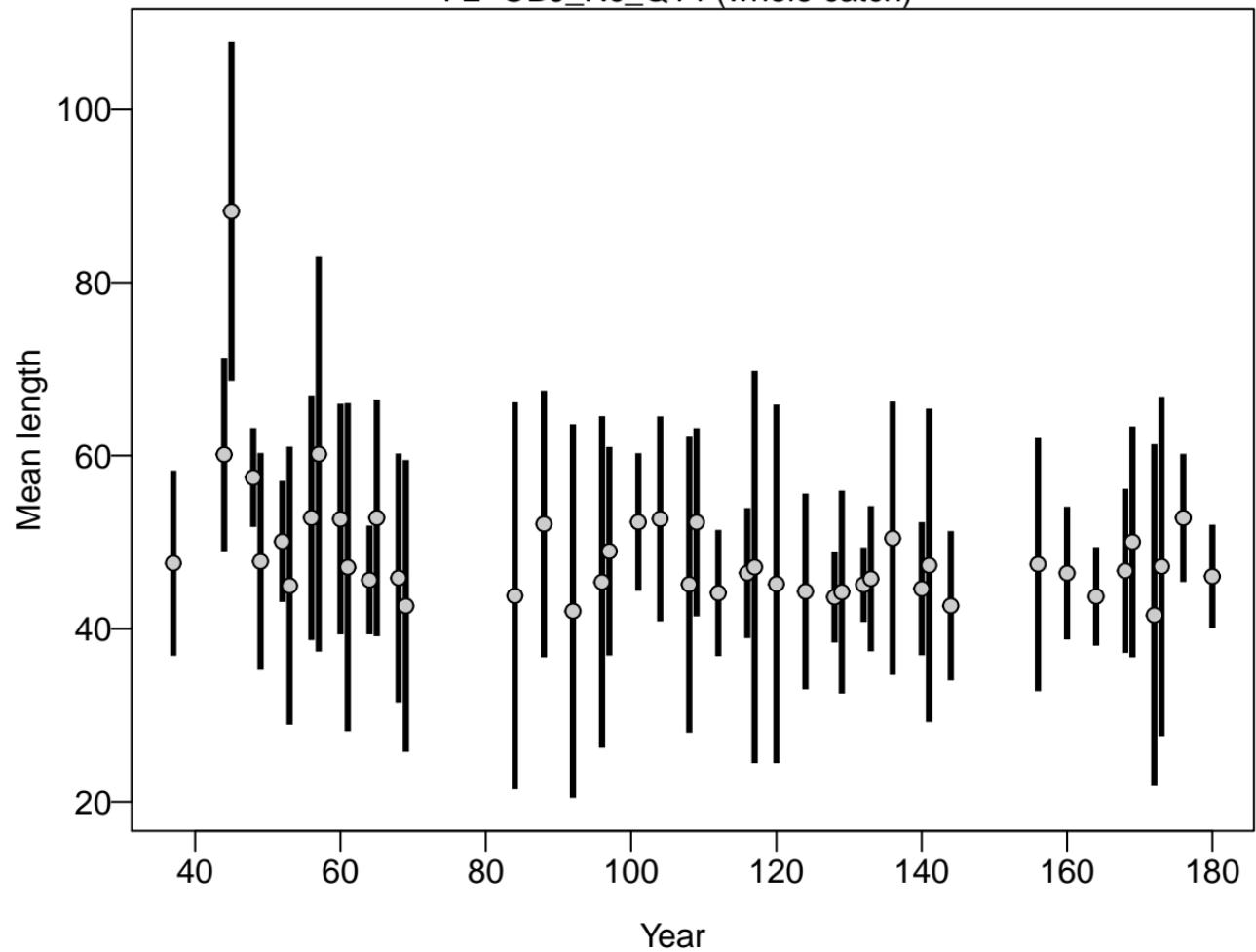
Proportion



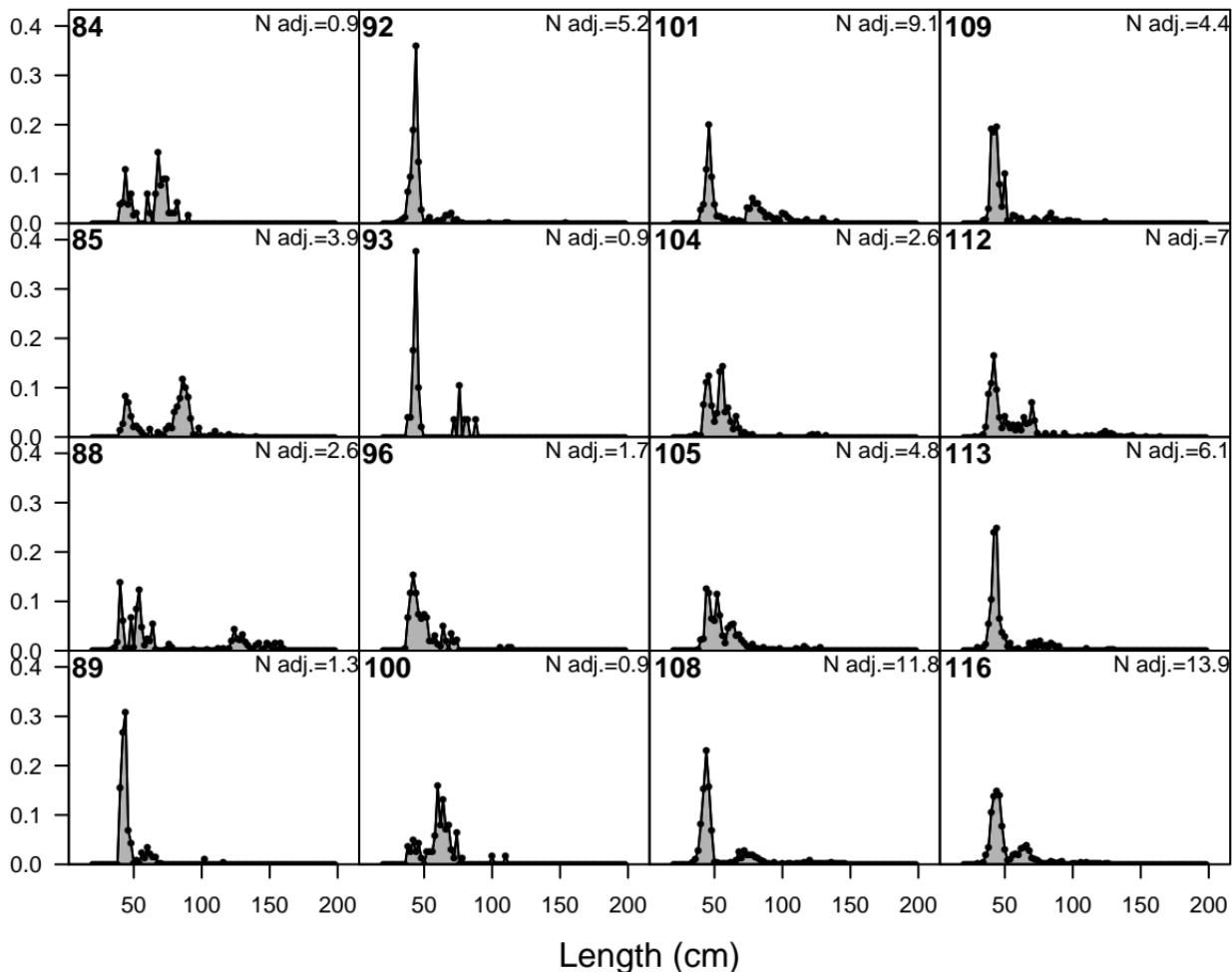




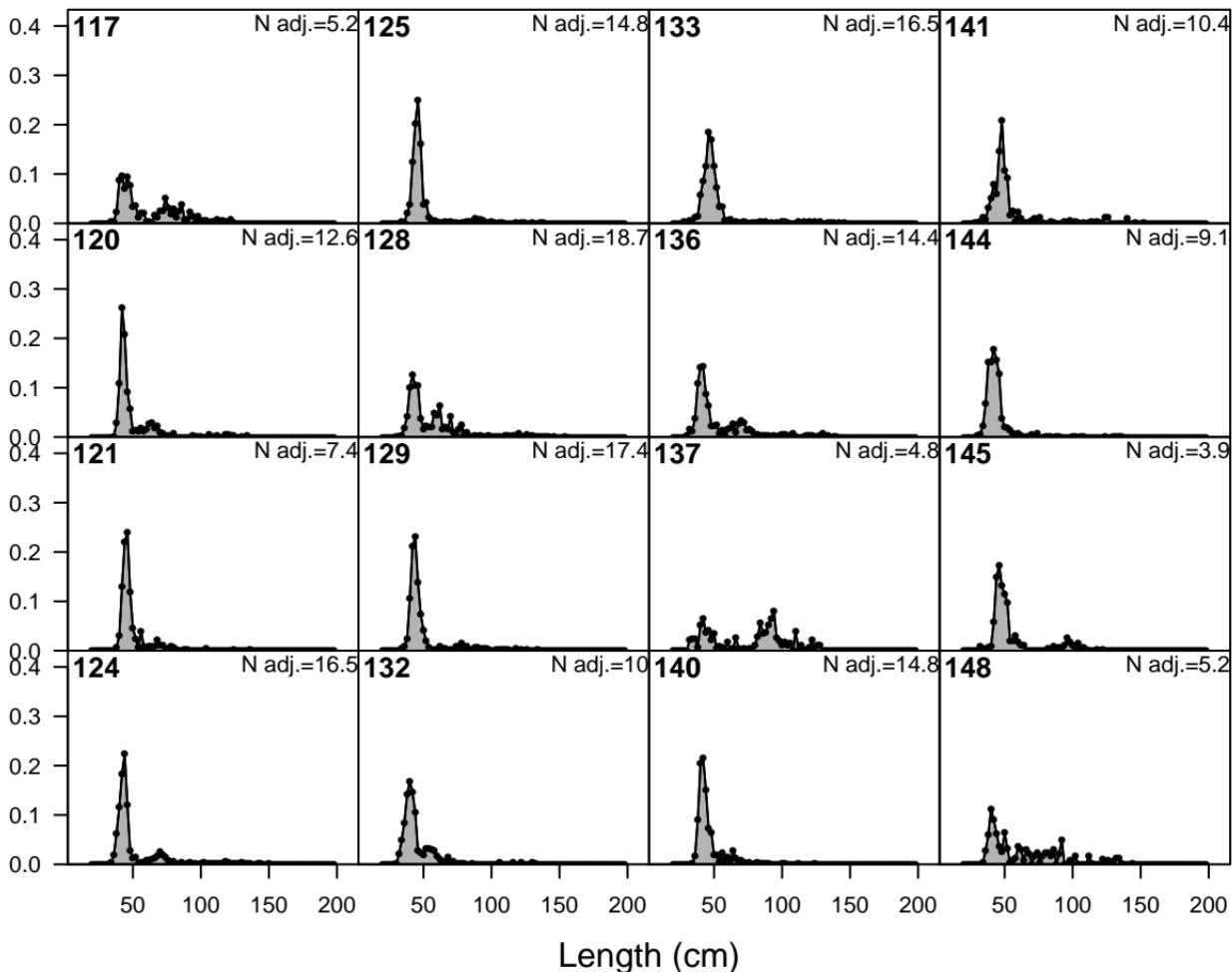
F2-OBJ_Nc_Q14 (whole catch)



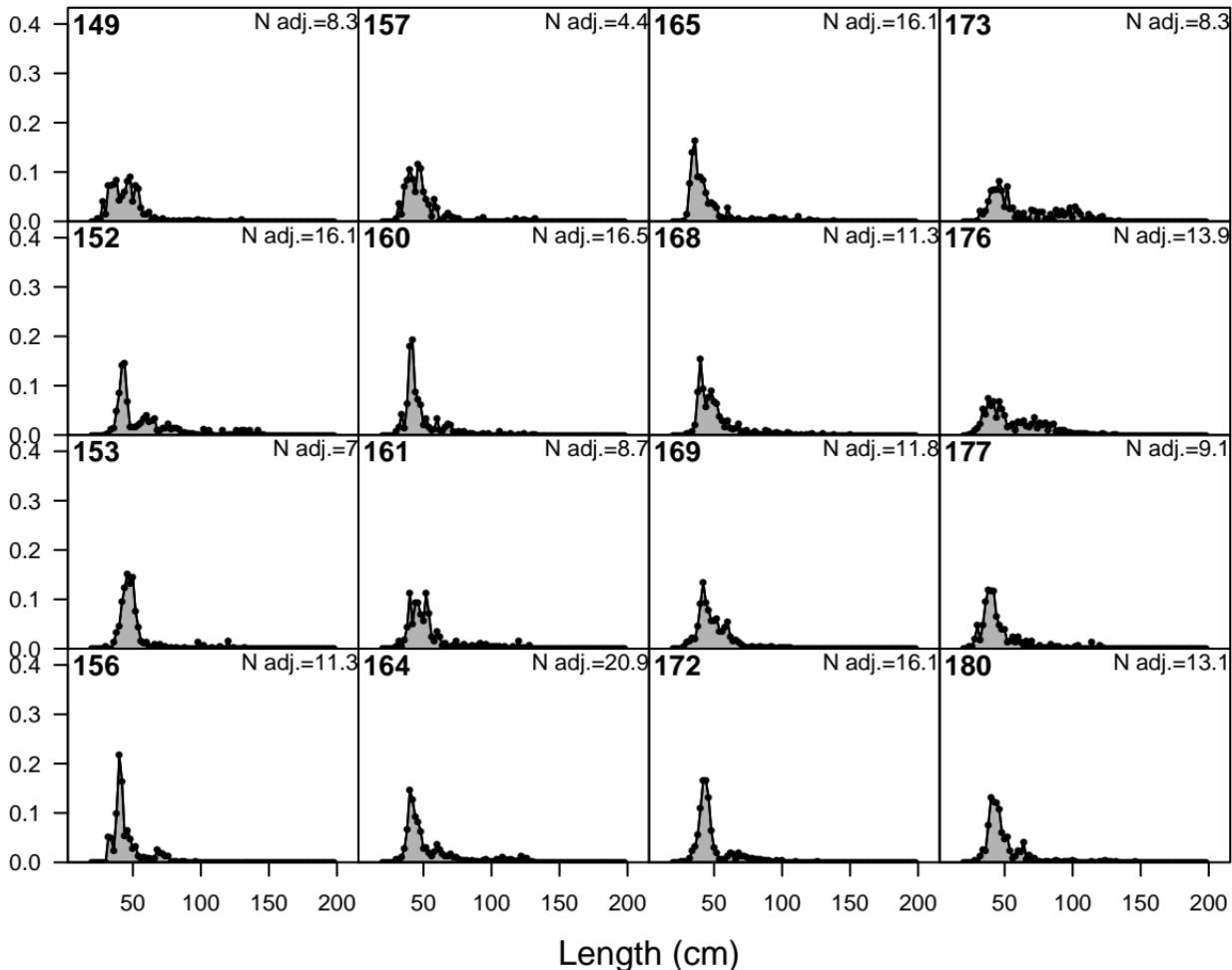
Proportion

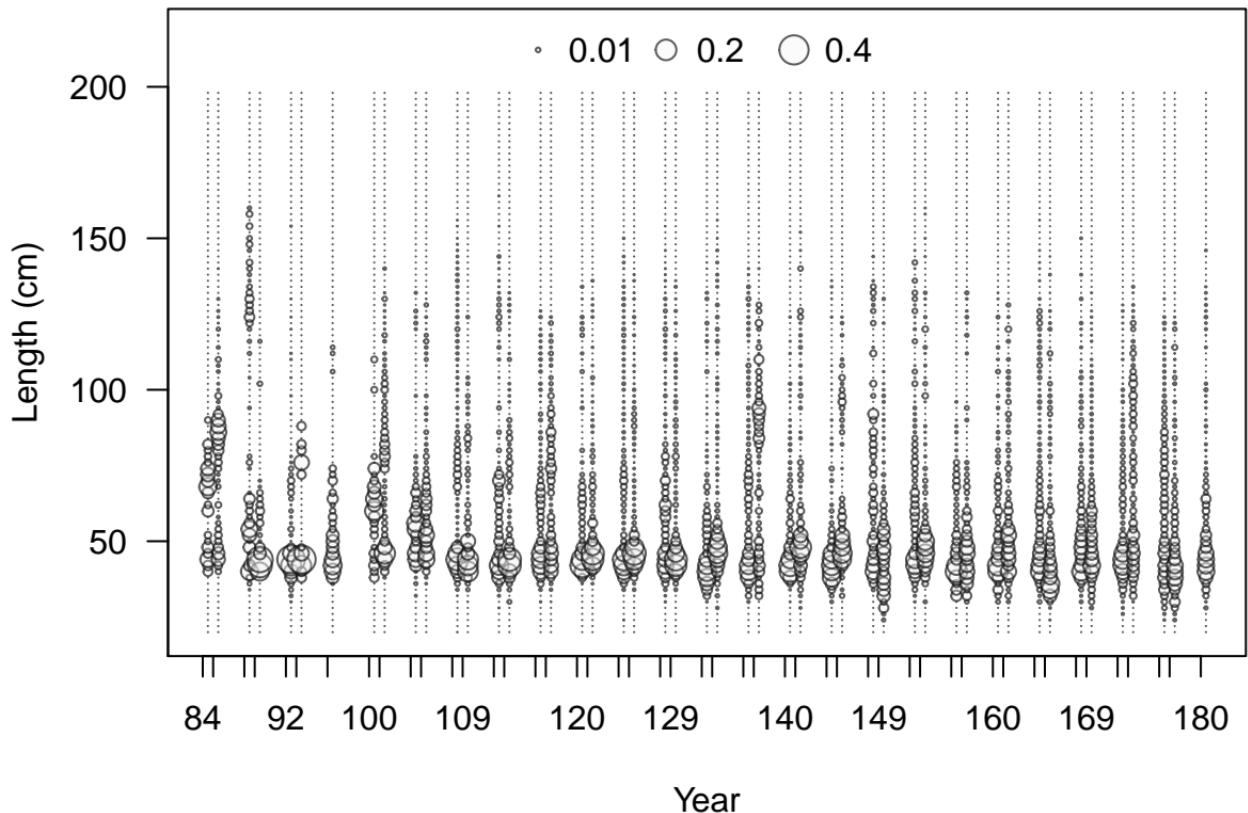


Proportion

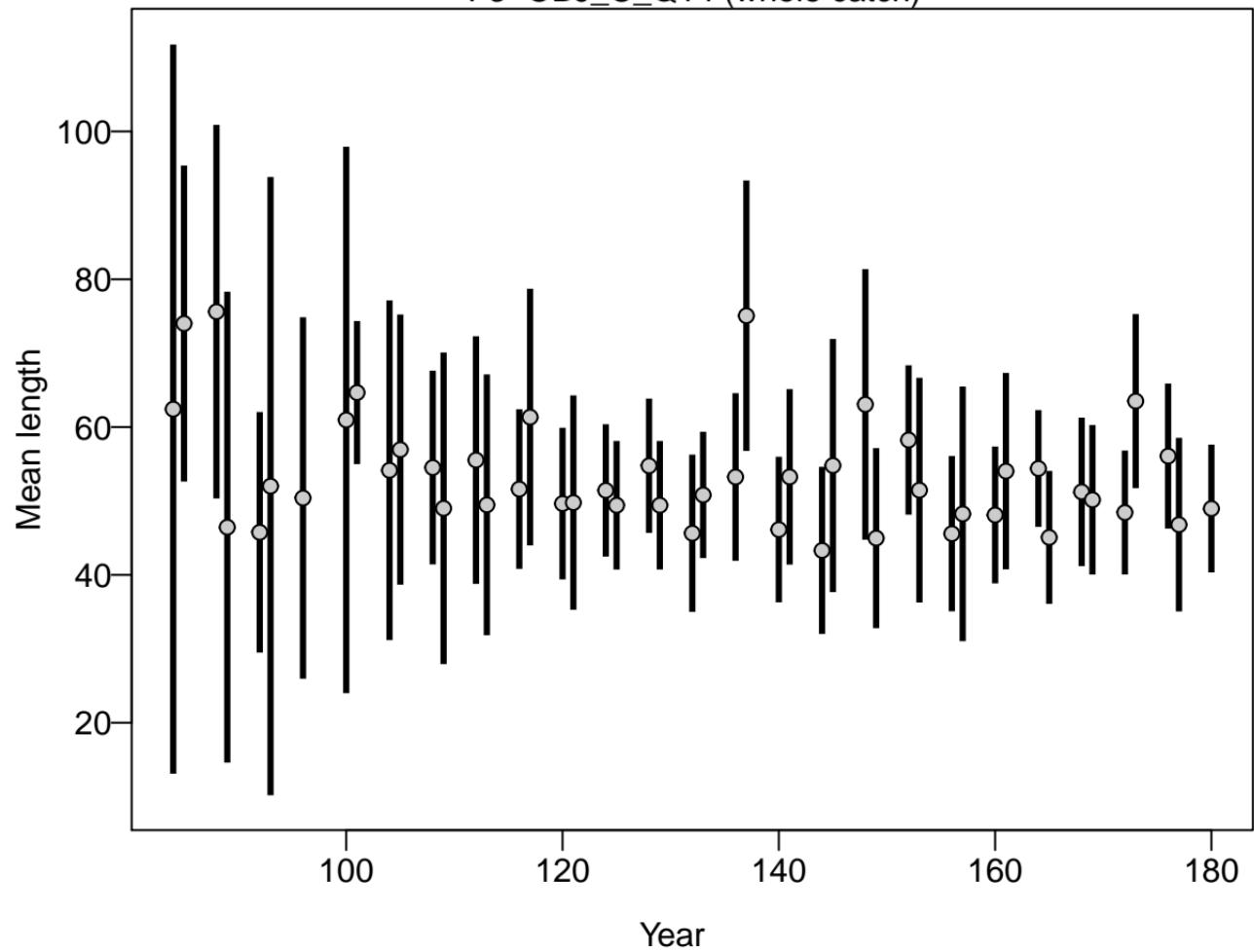


Proportion

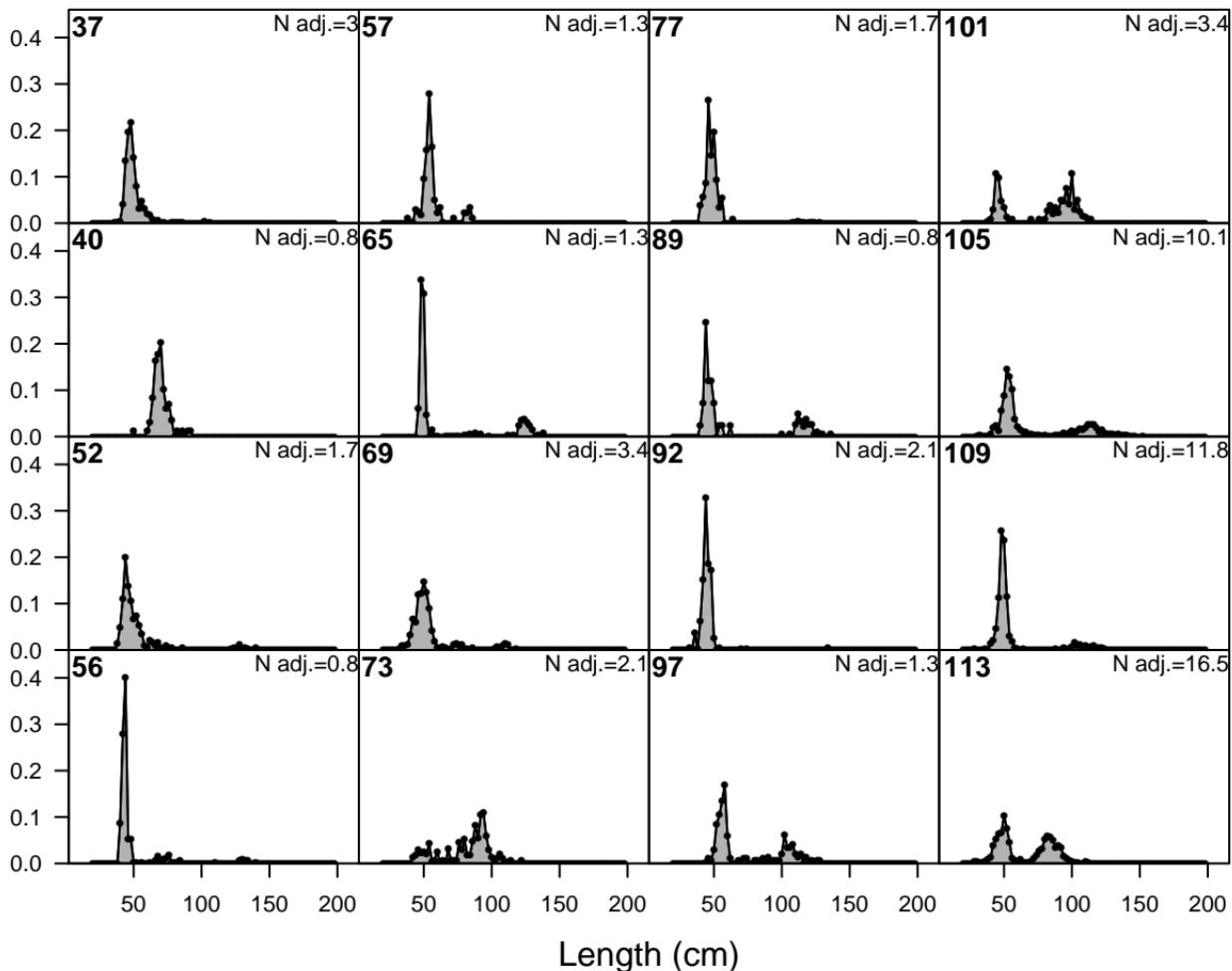




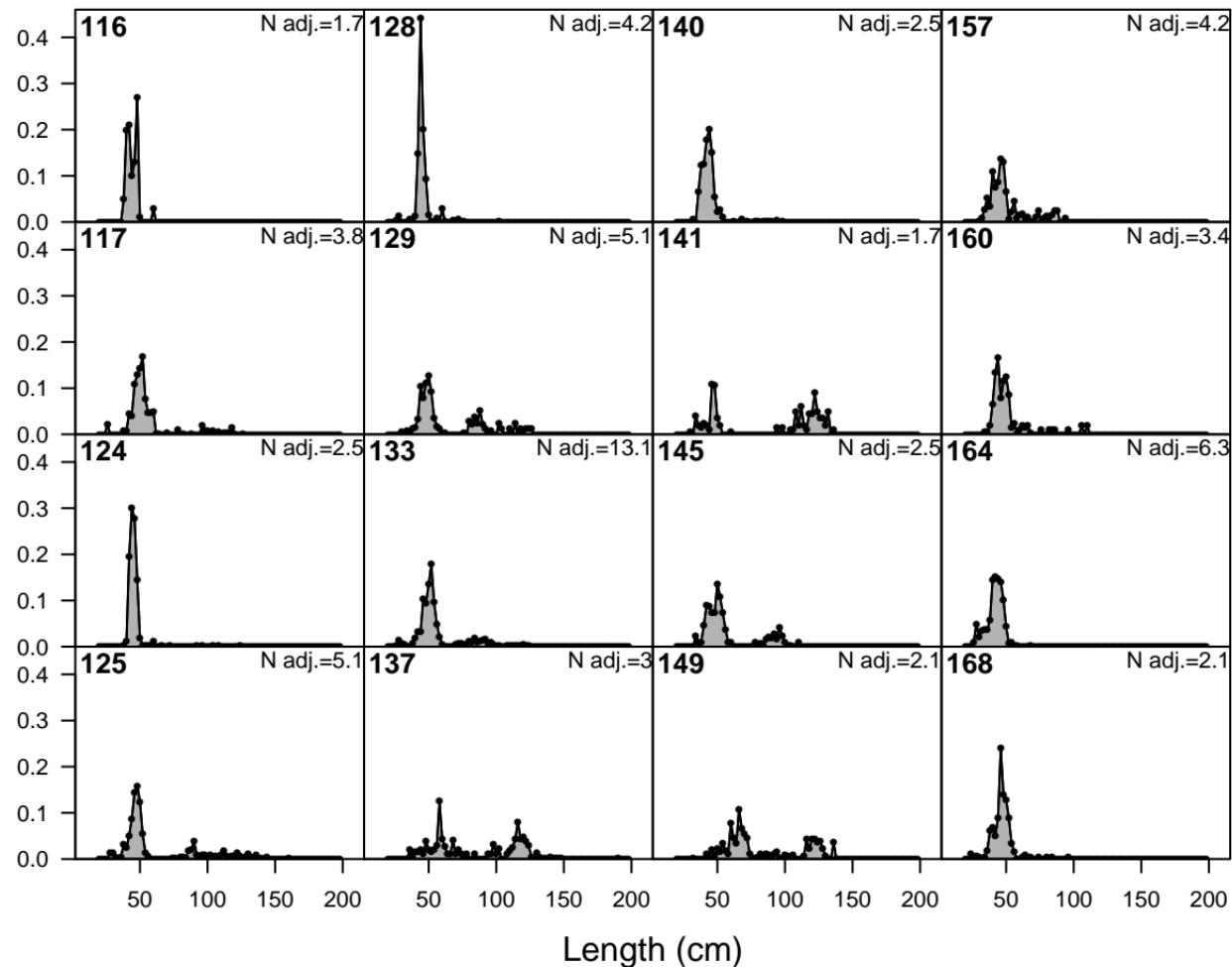
F3-OBJ_C_Q14 (whole catch)

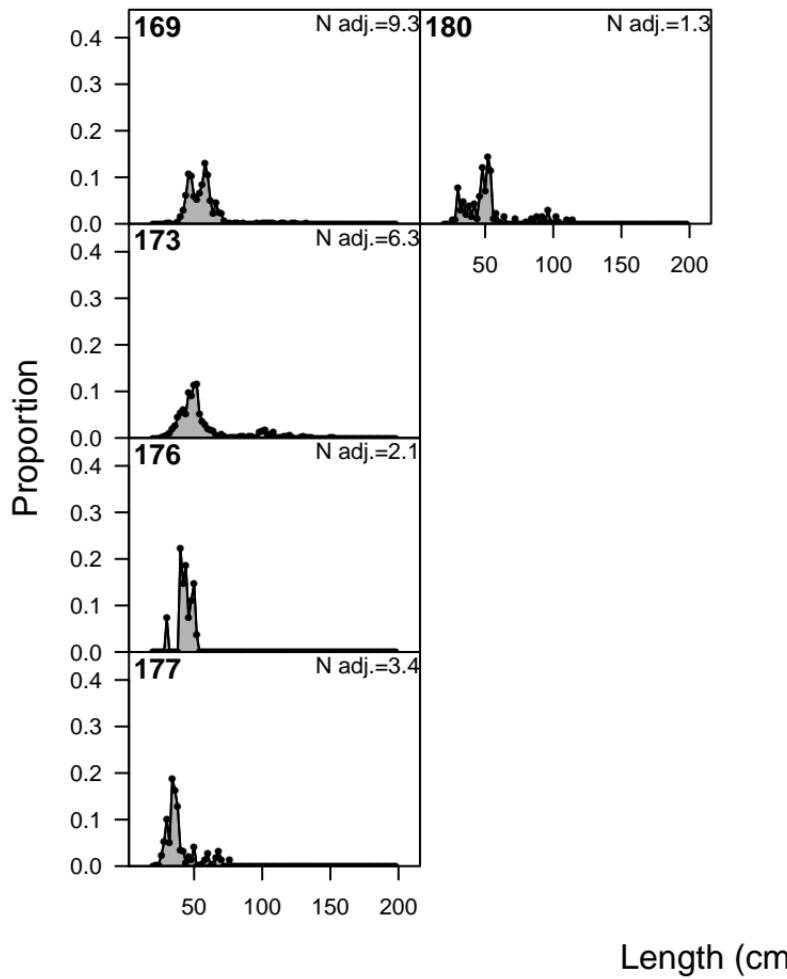


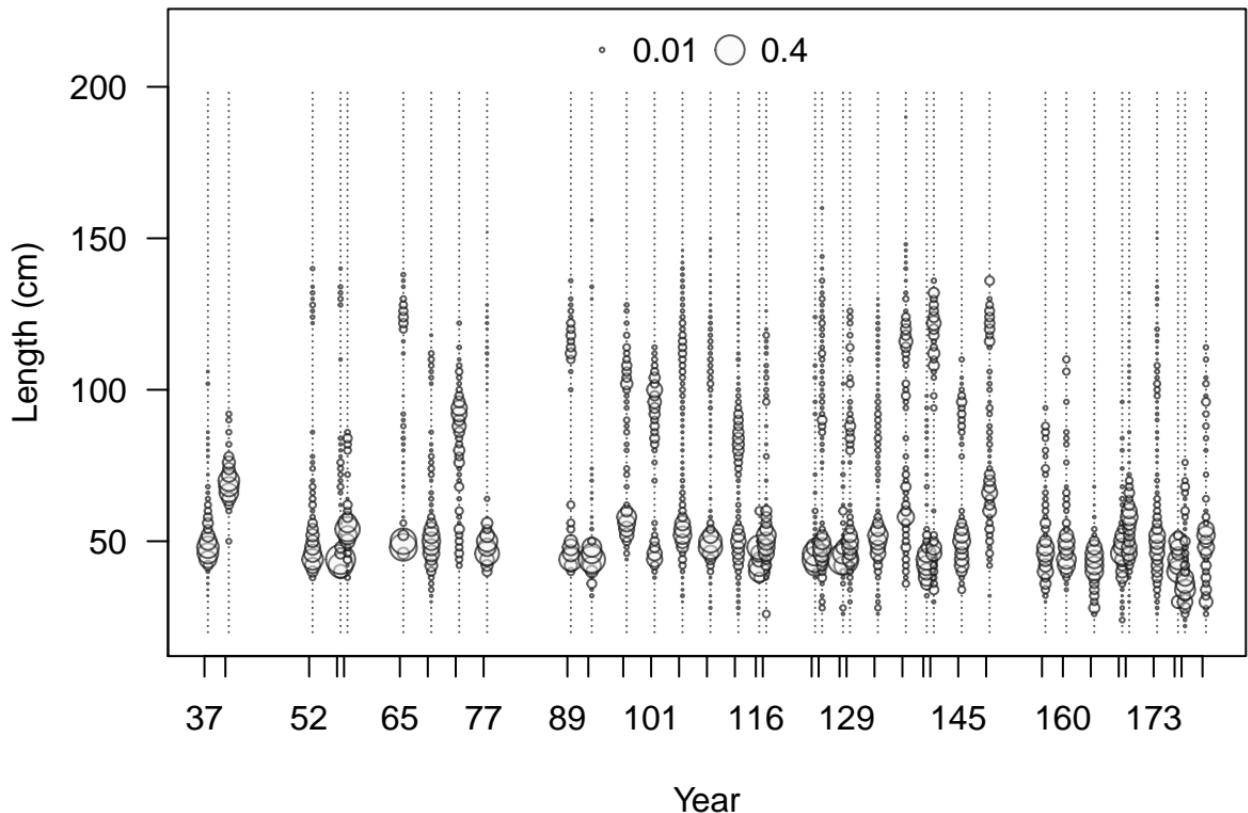
Proportion



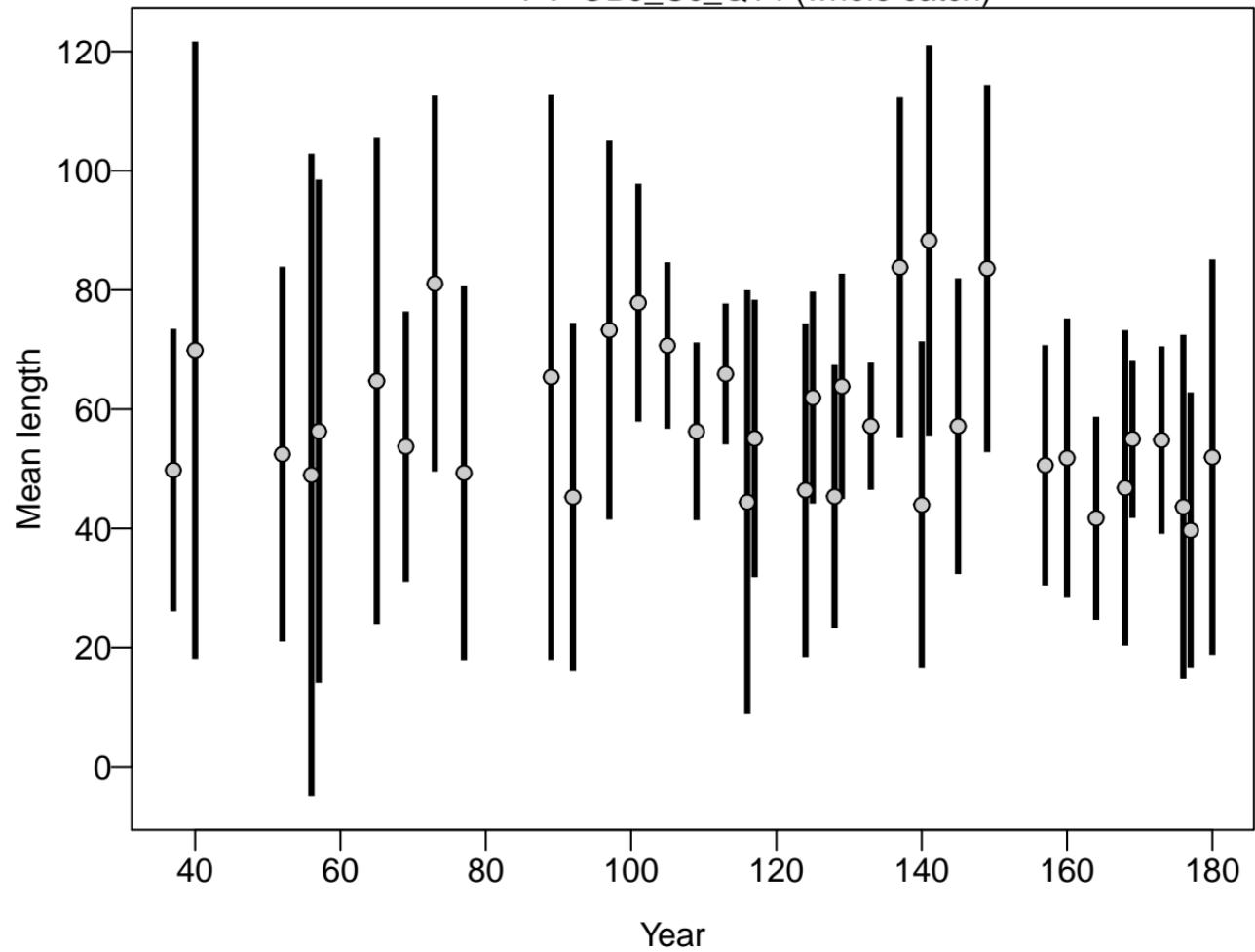
Proportion

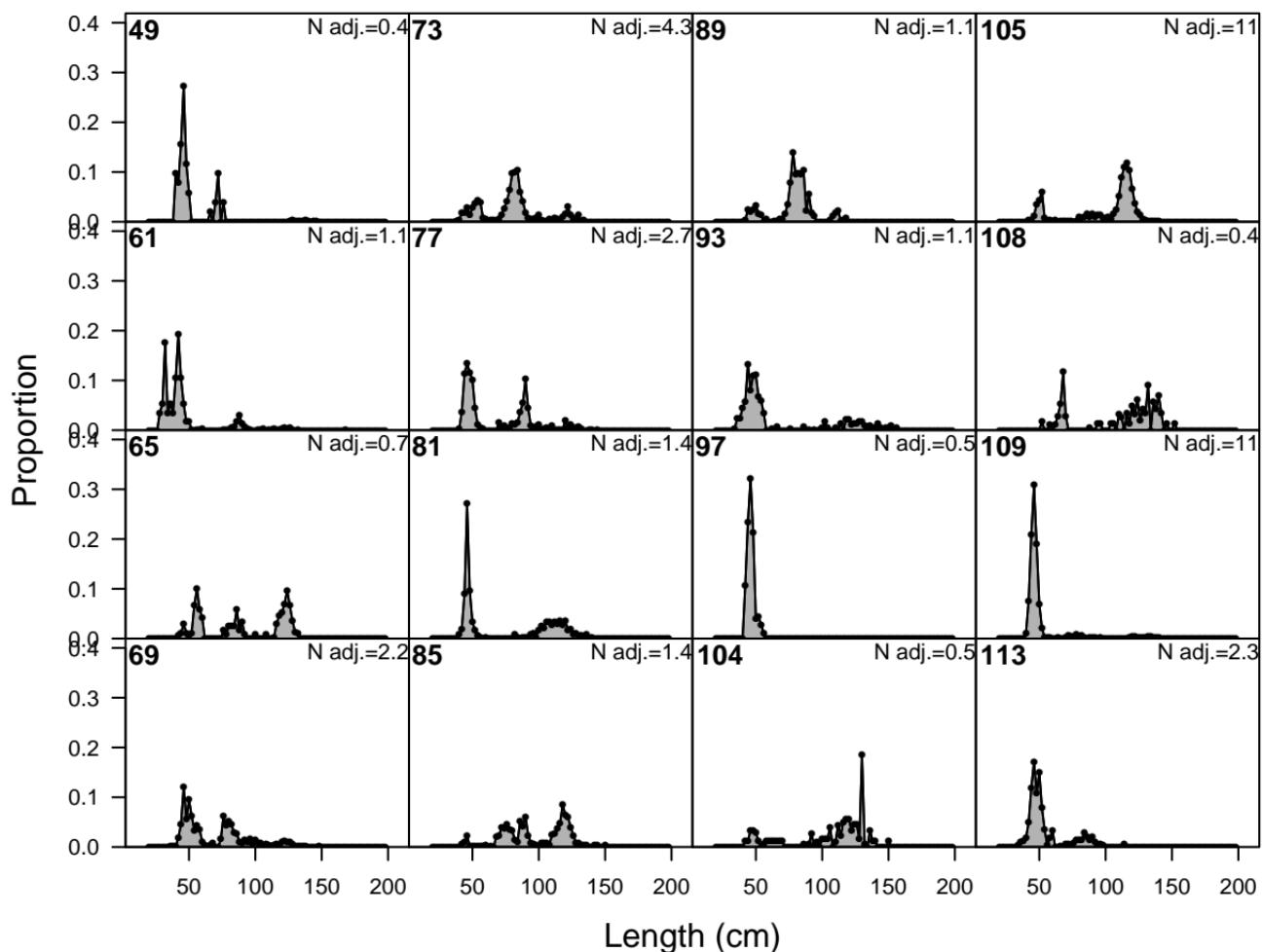


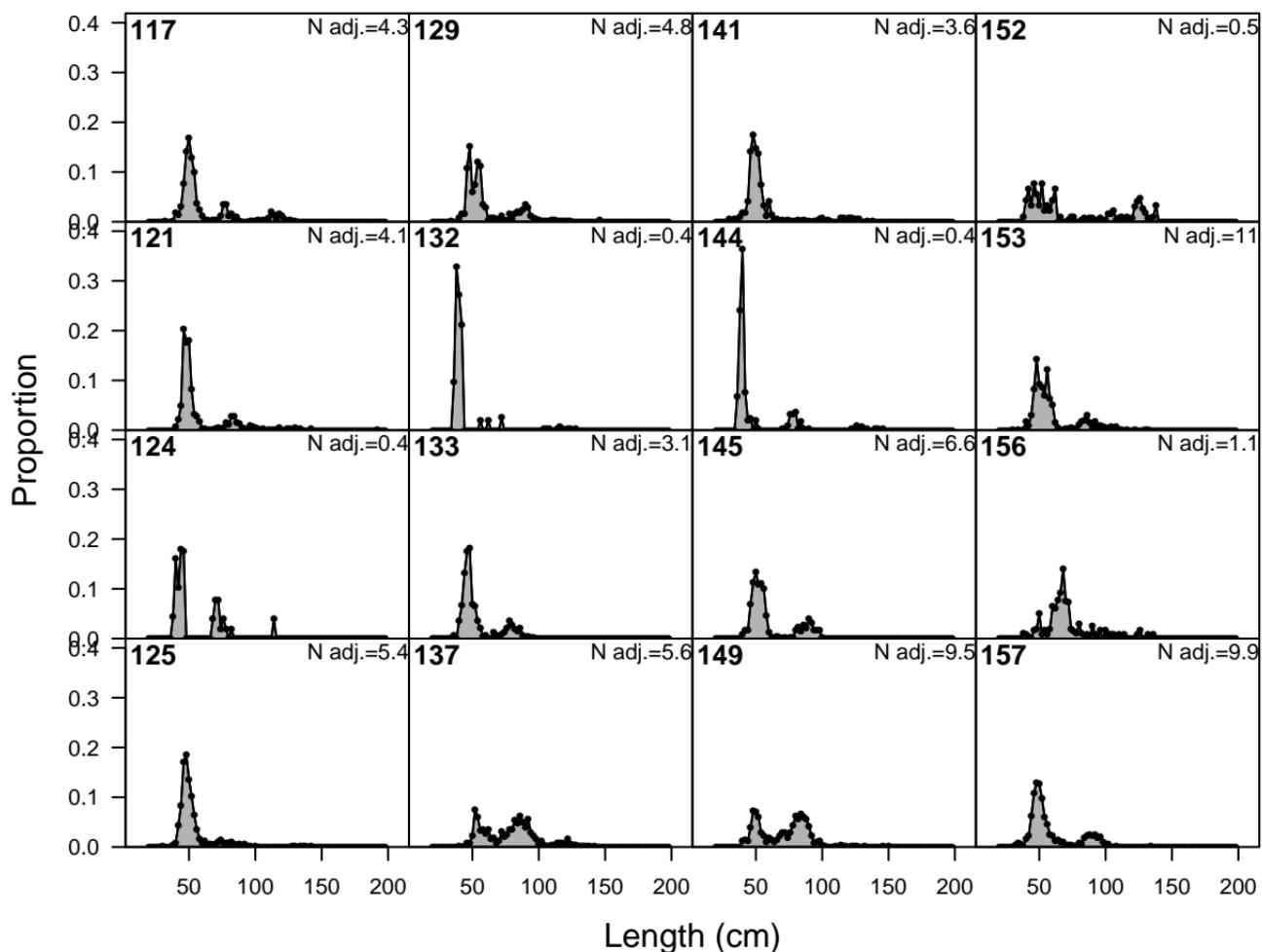


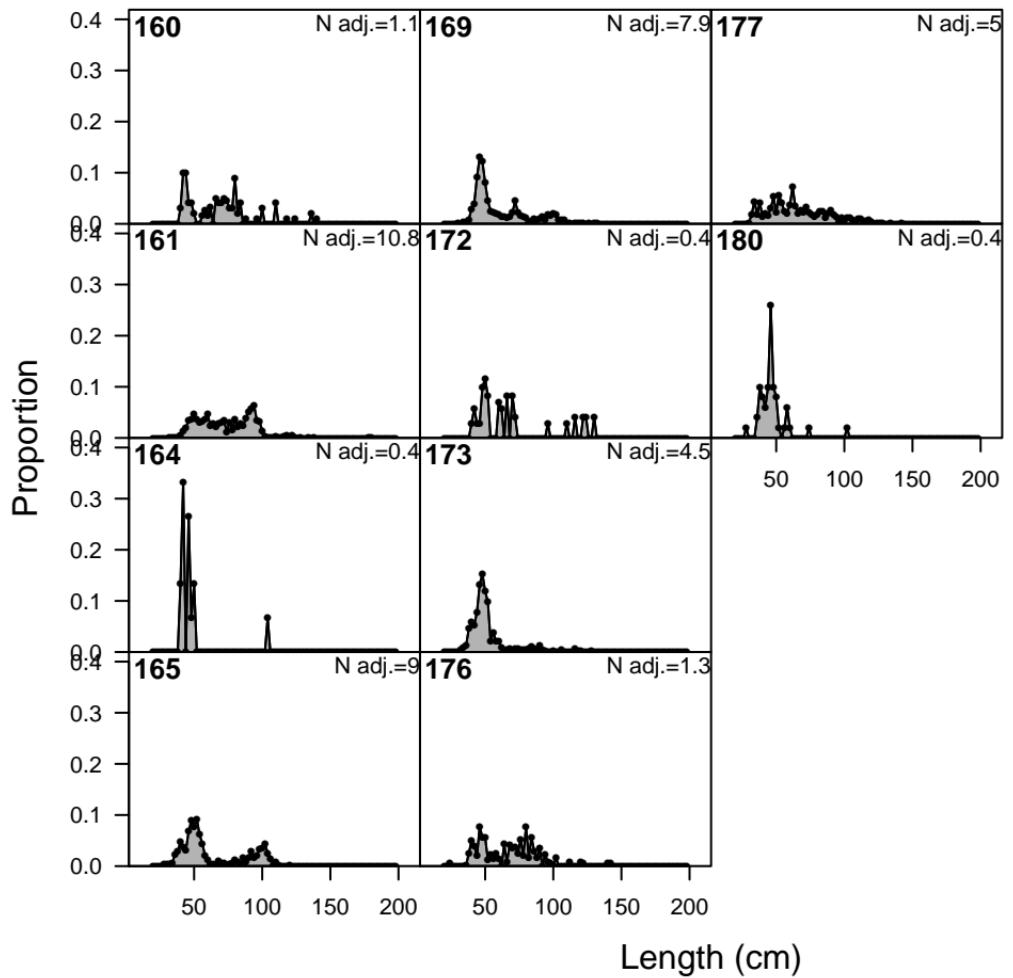


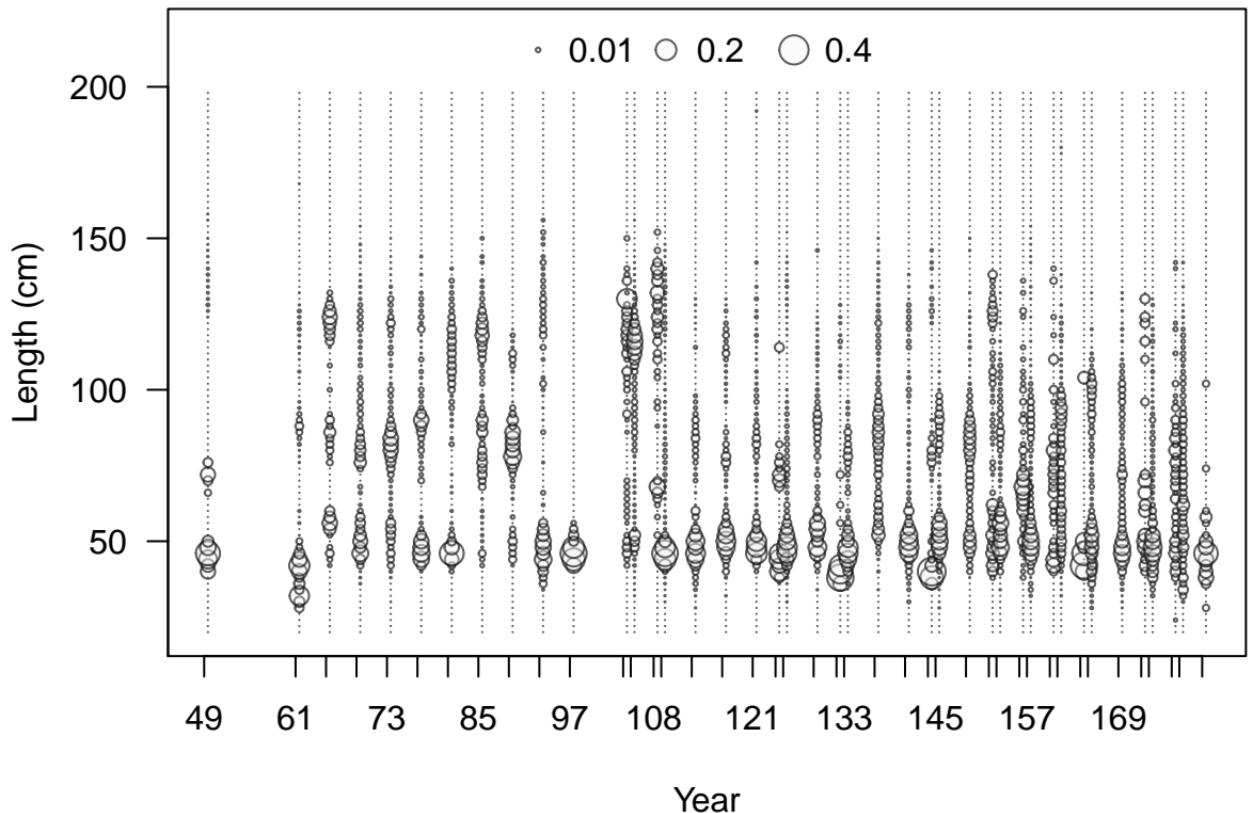
F4-OBJ_Cc_Q14 (whole catch)



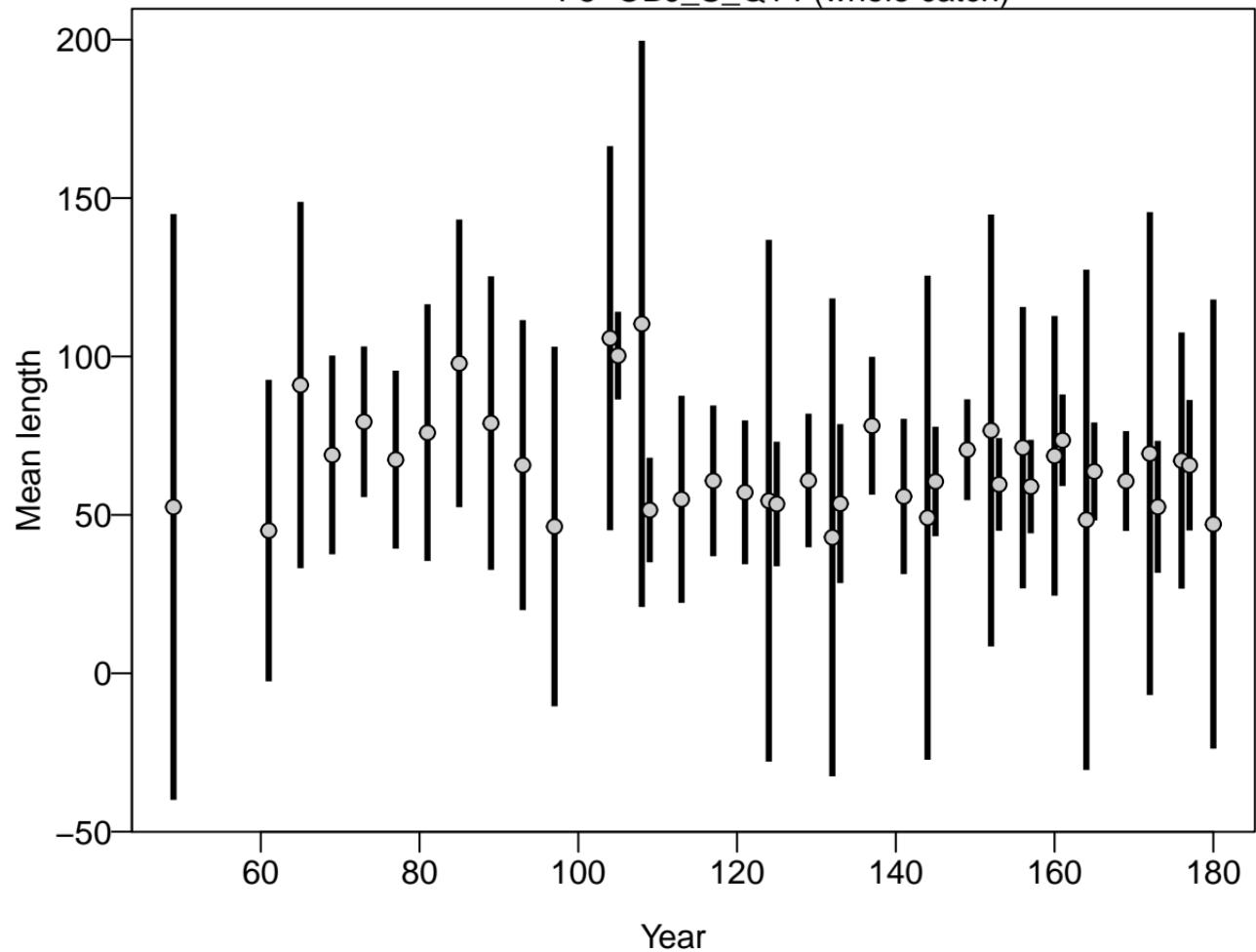


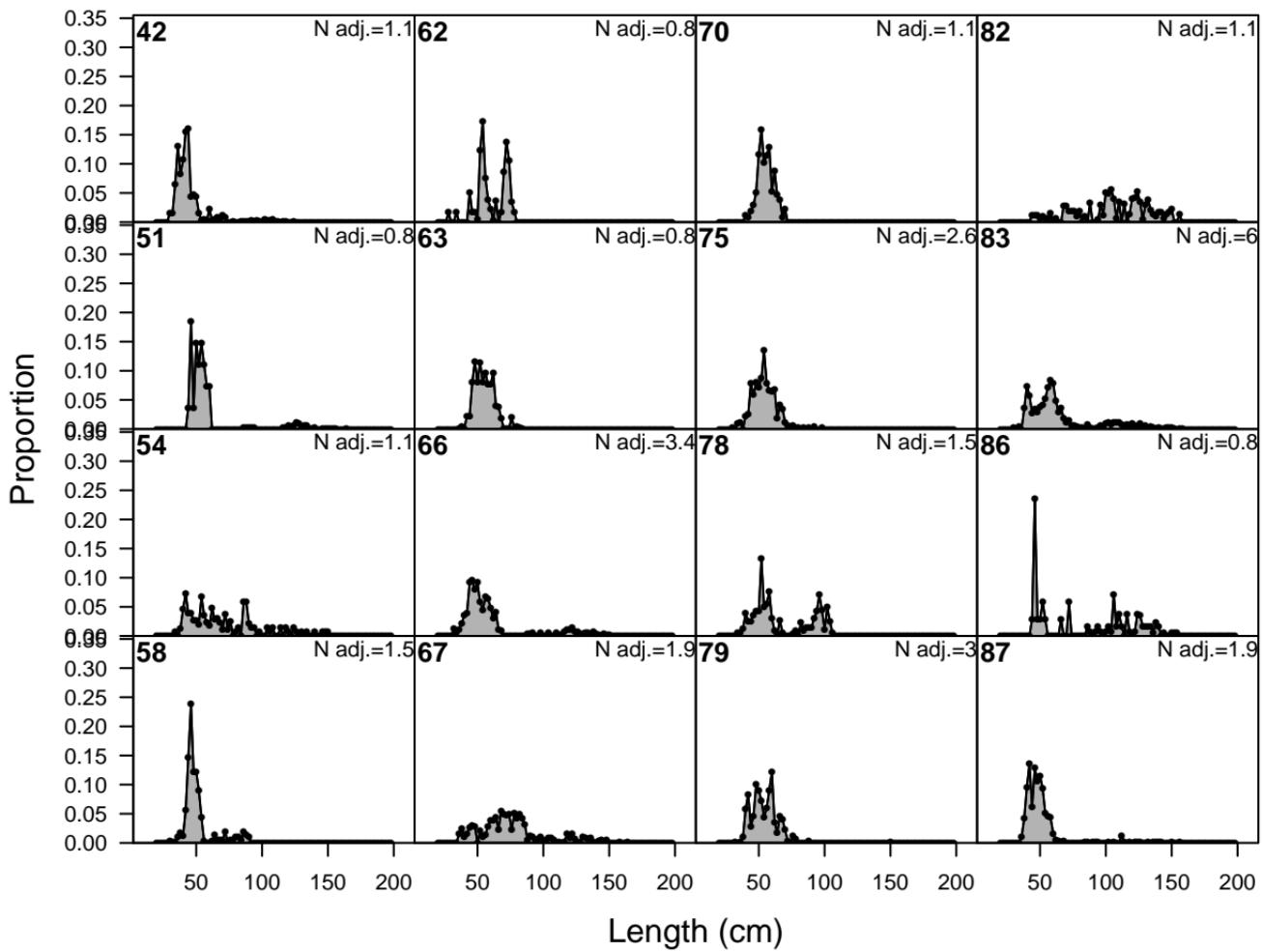


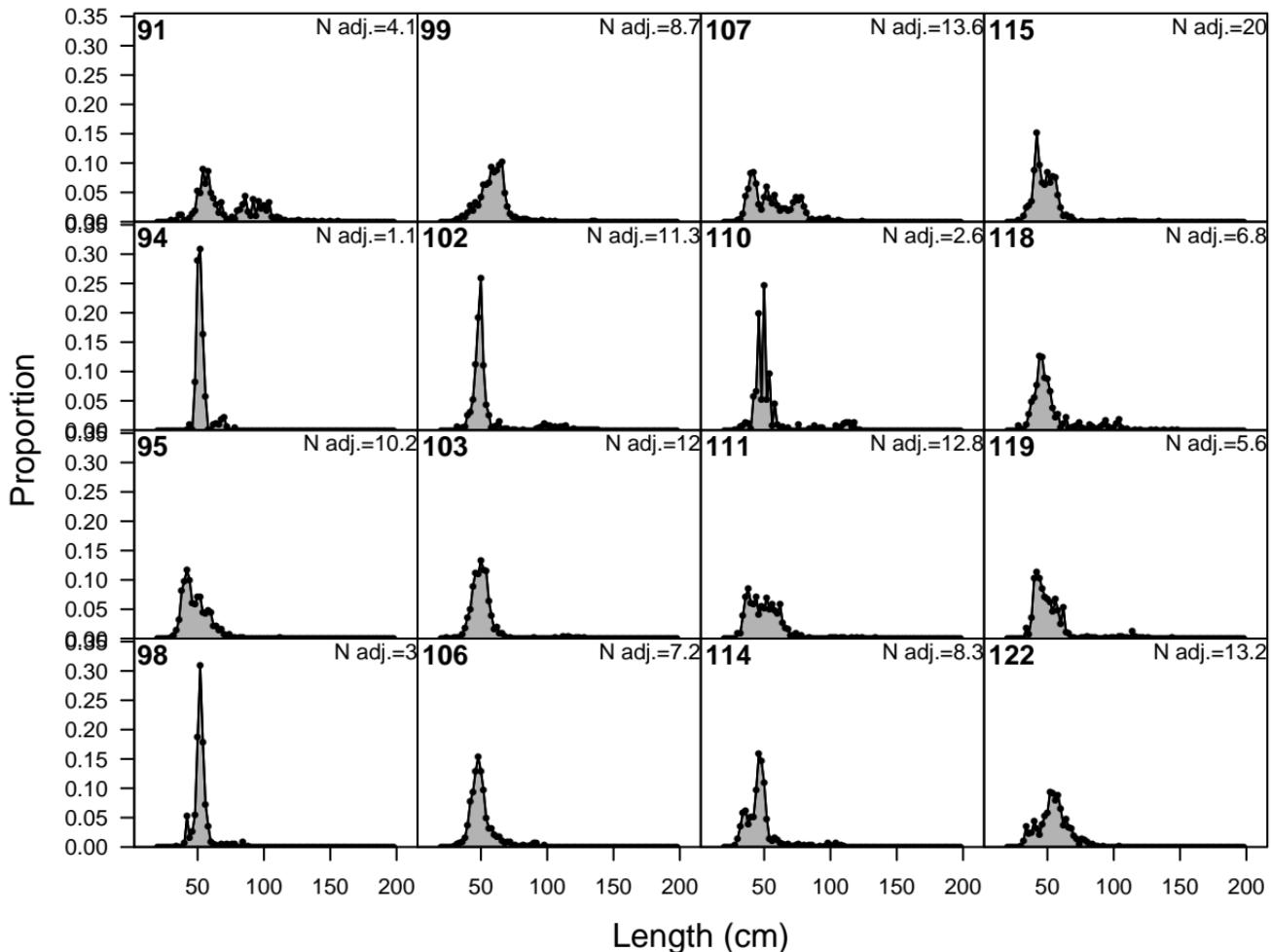


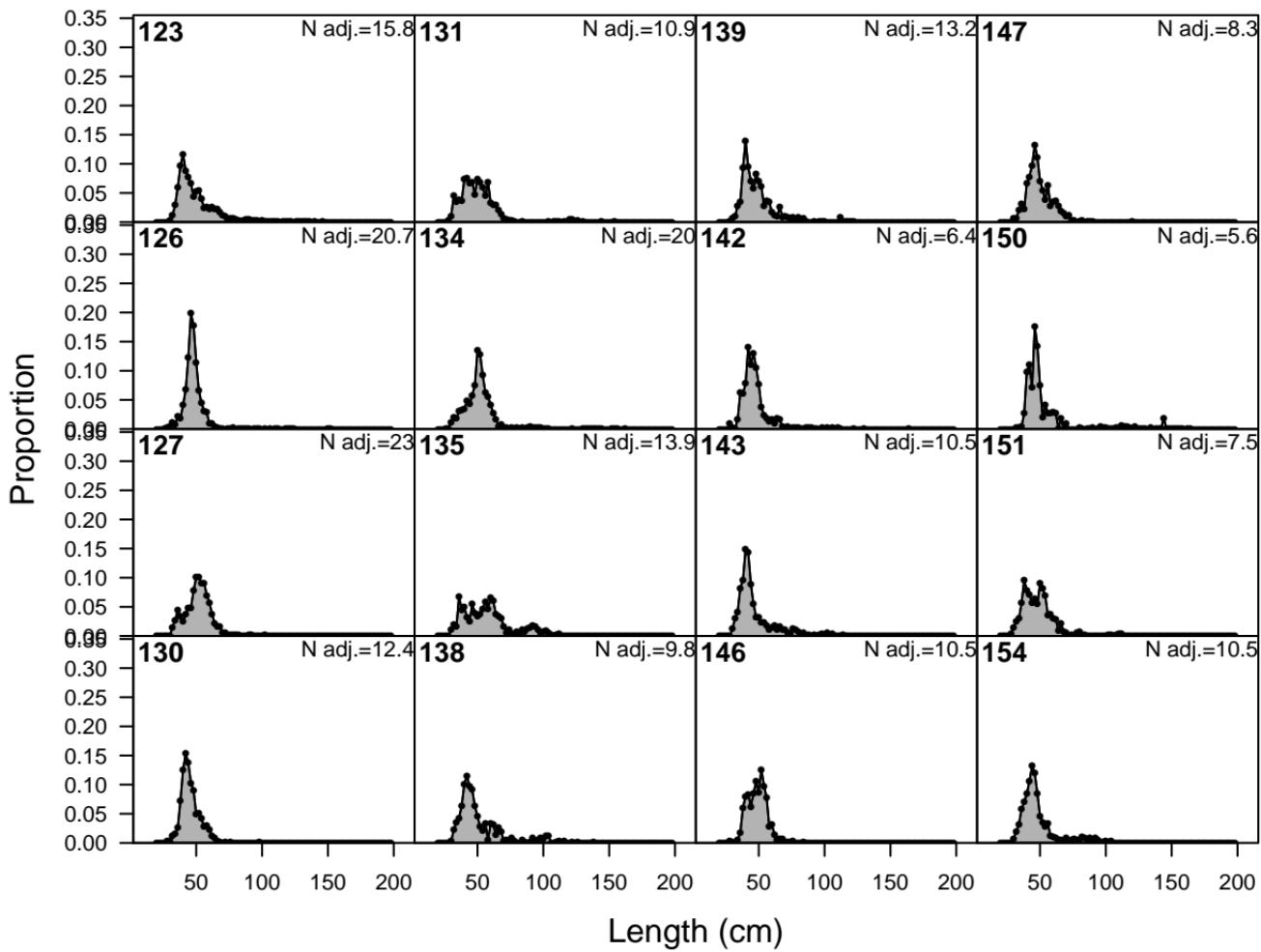


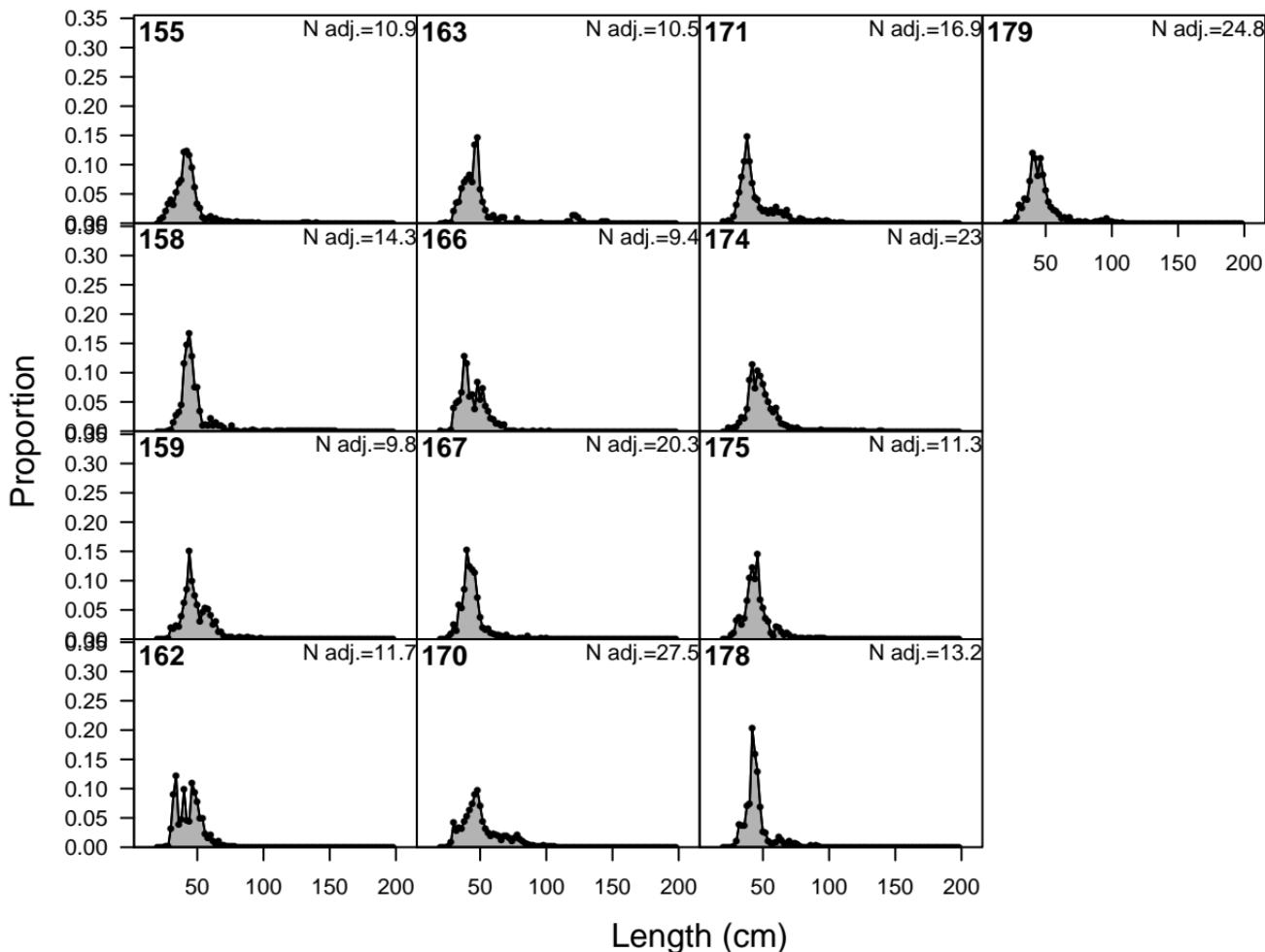
F5-OBJ_S_Q14 (whole catch)

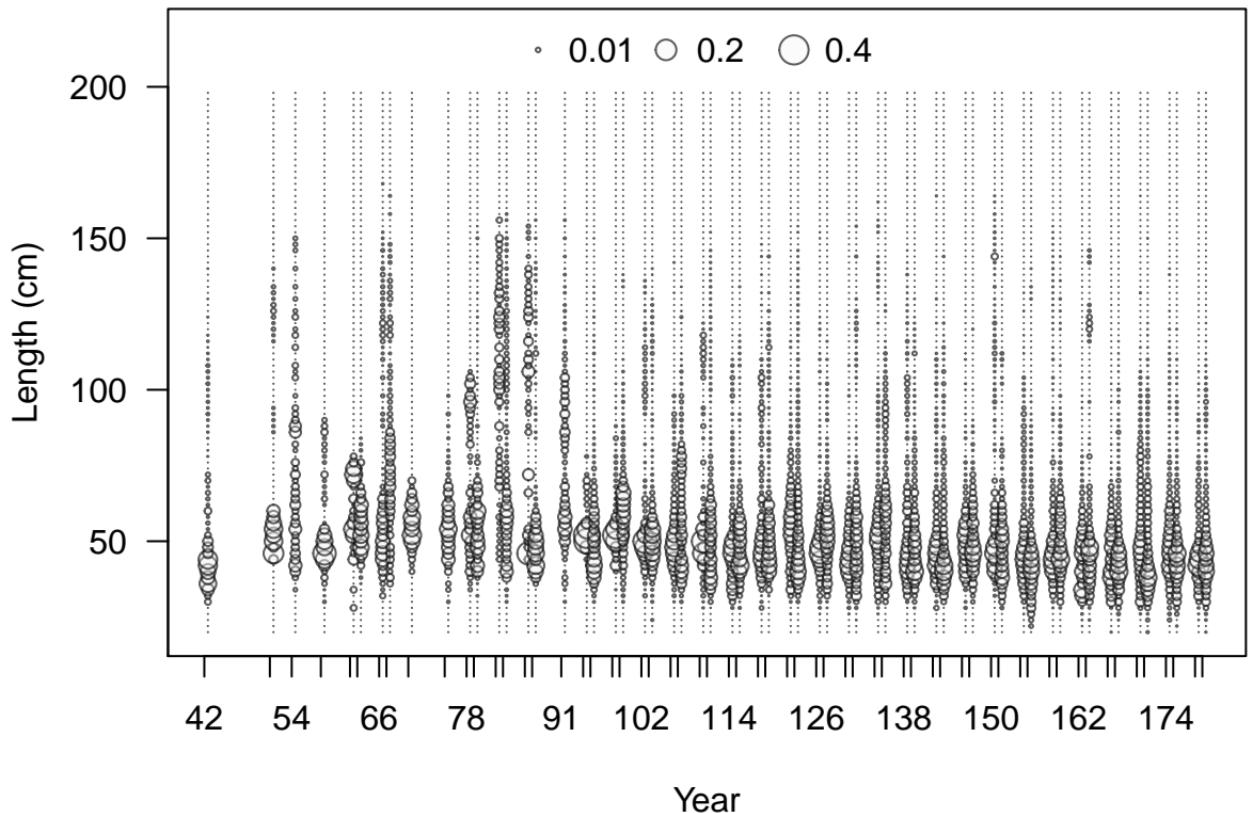




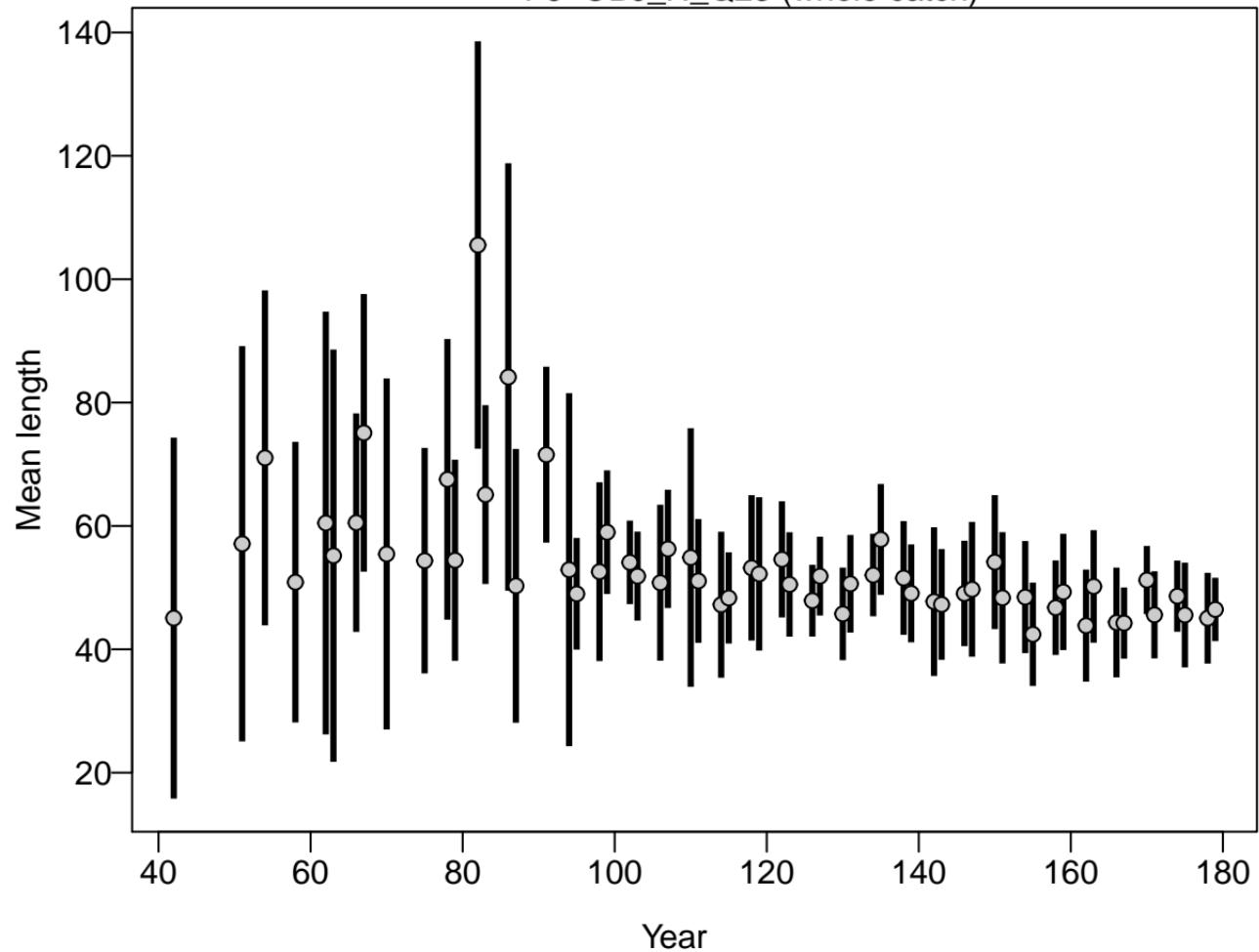




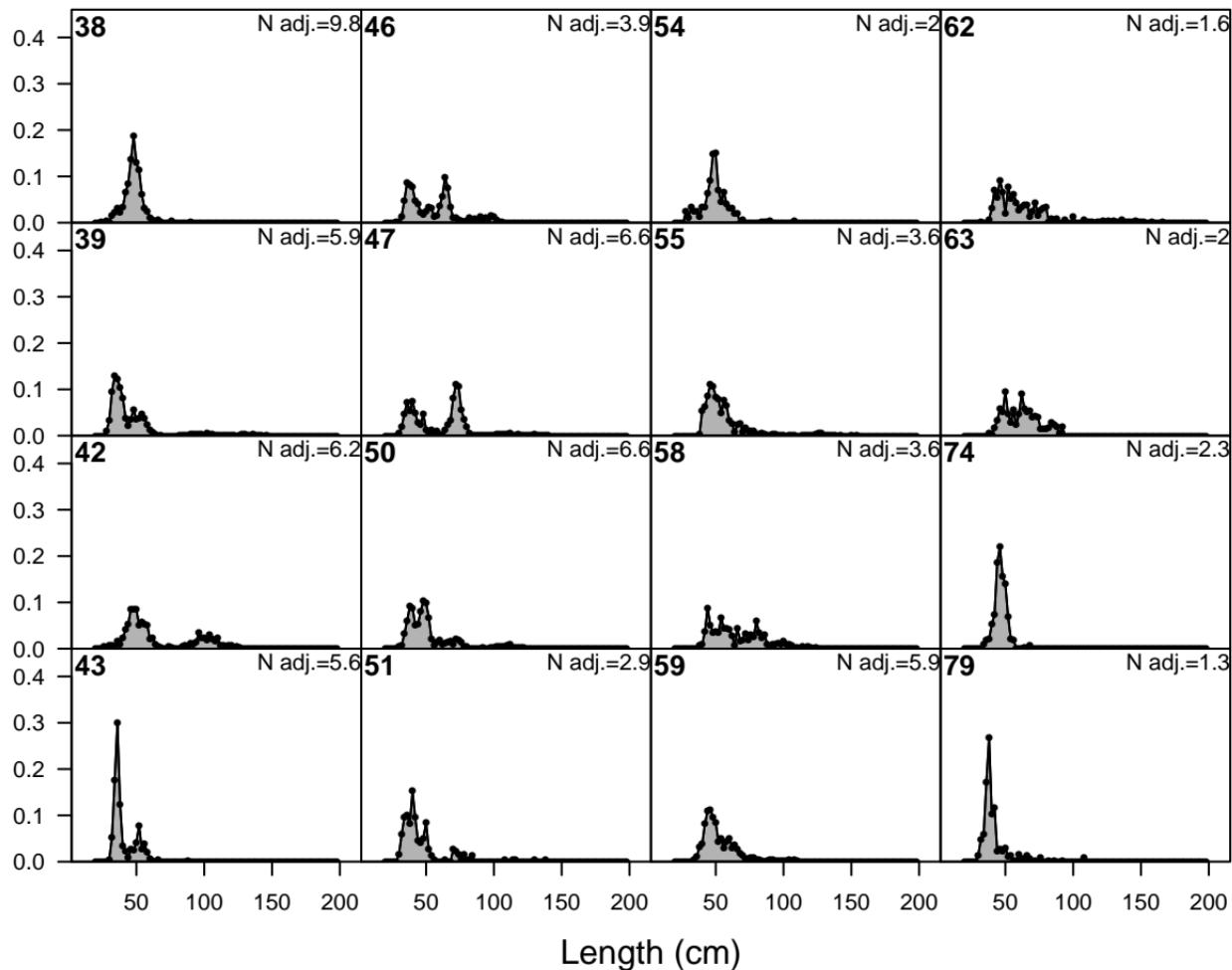




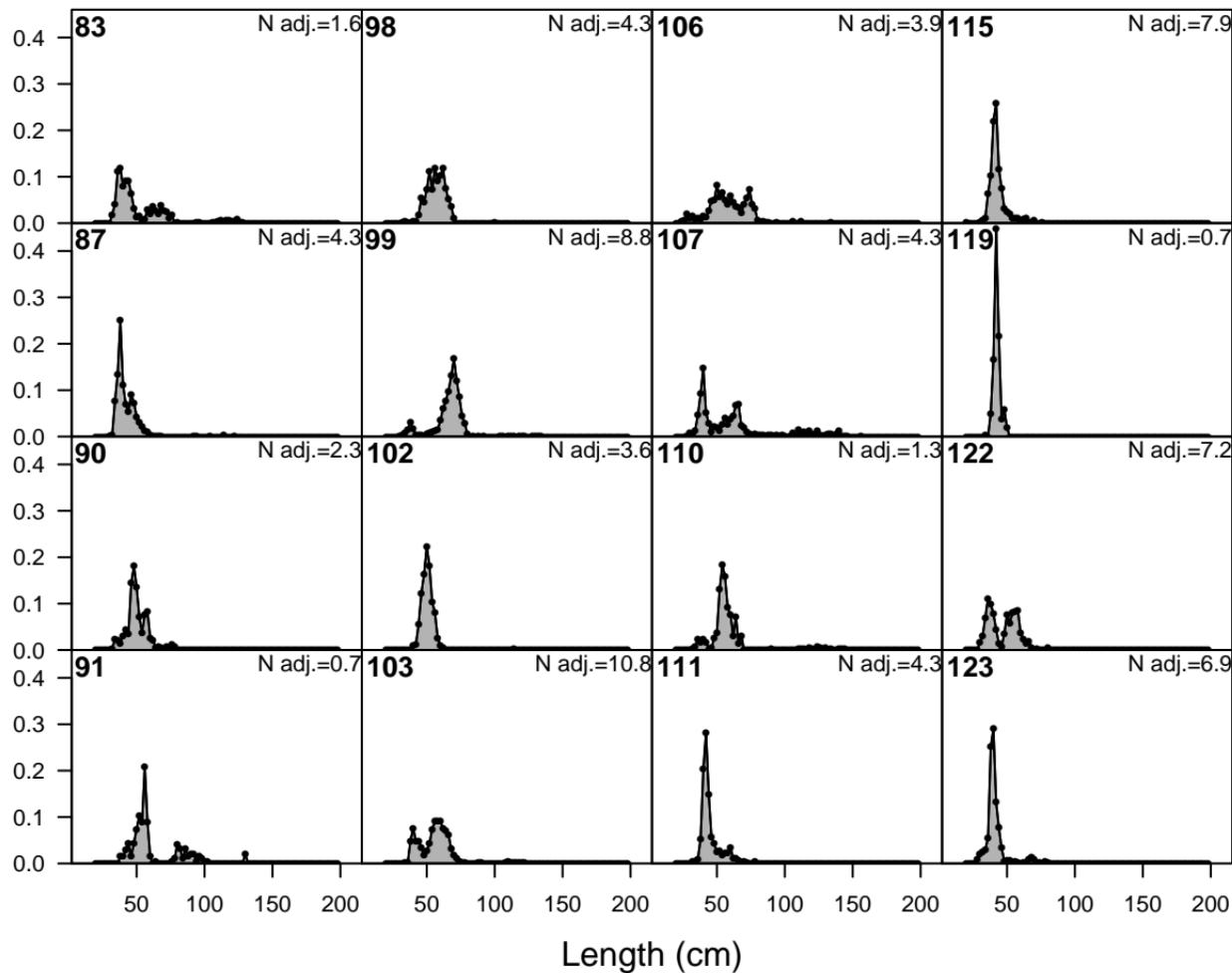
F6-OBJ_N_Q23 (whole catch)



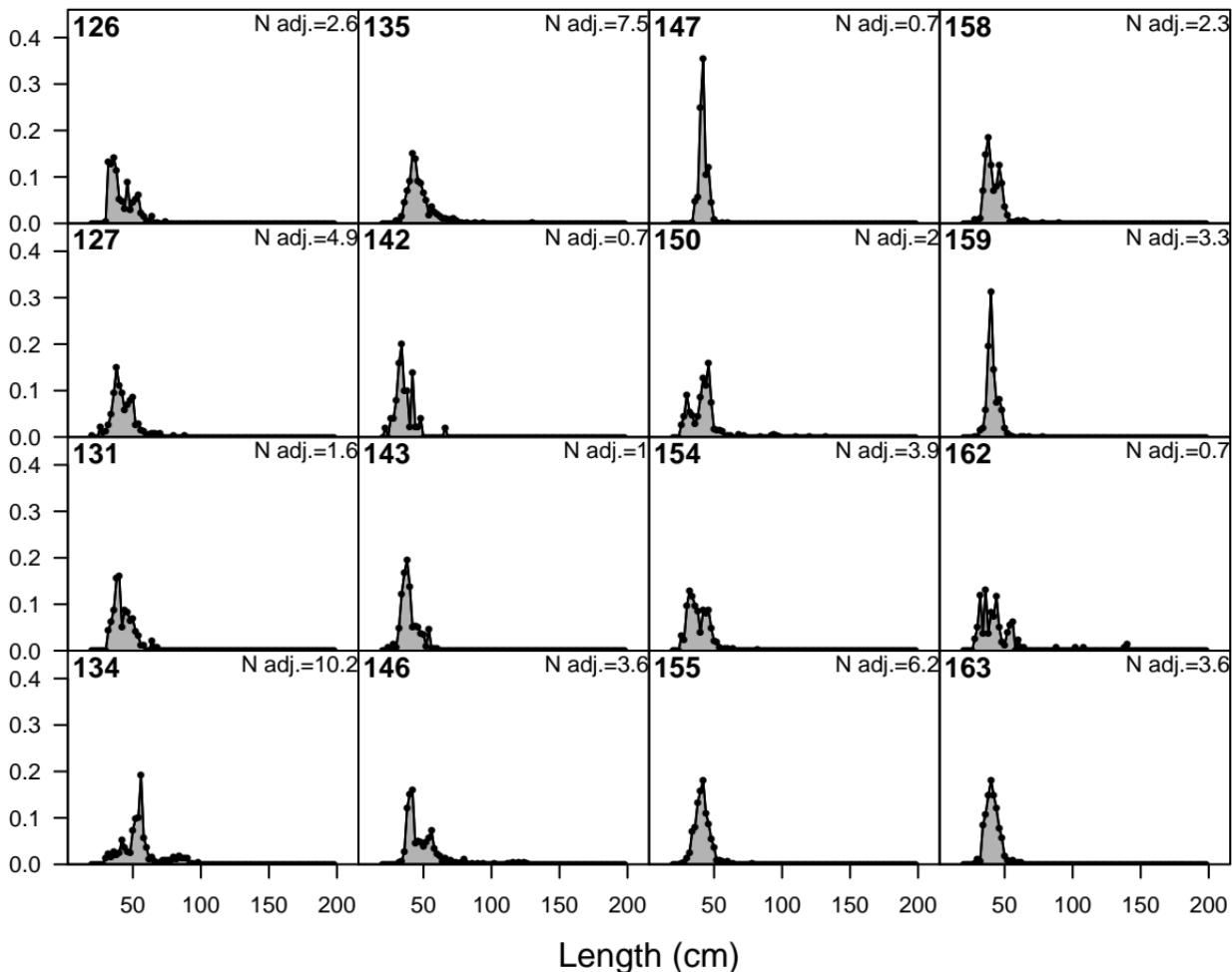
Proportion

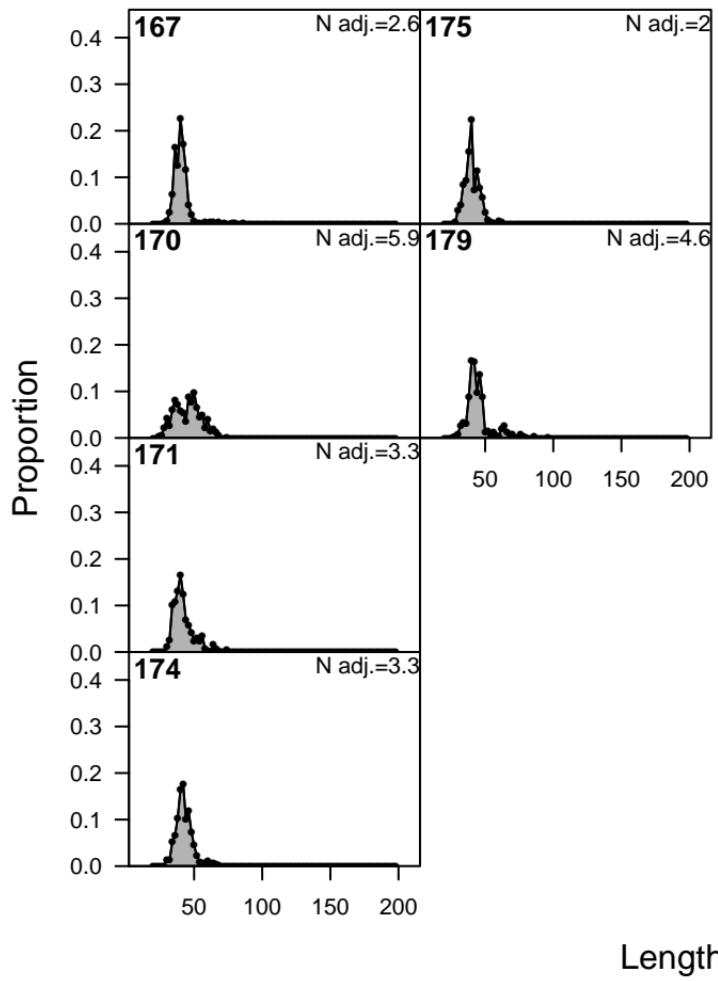


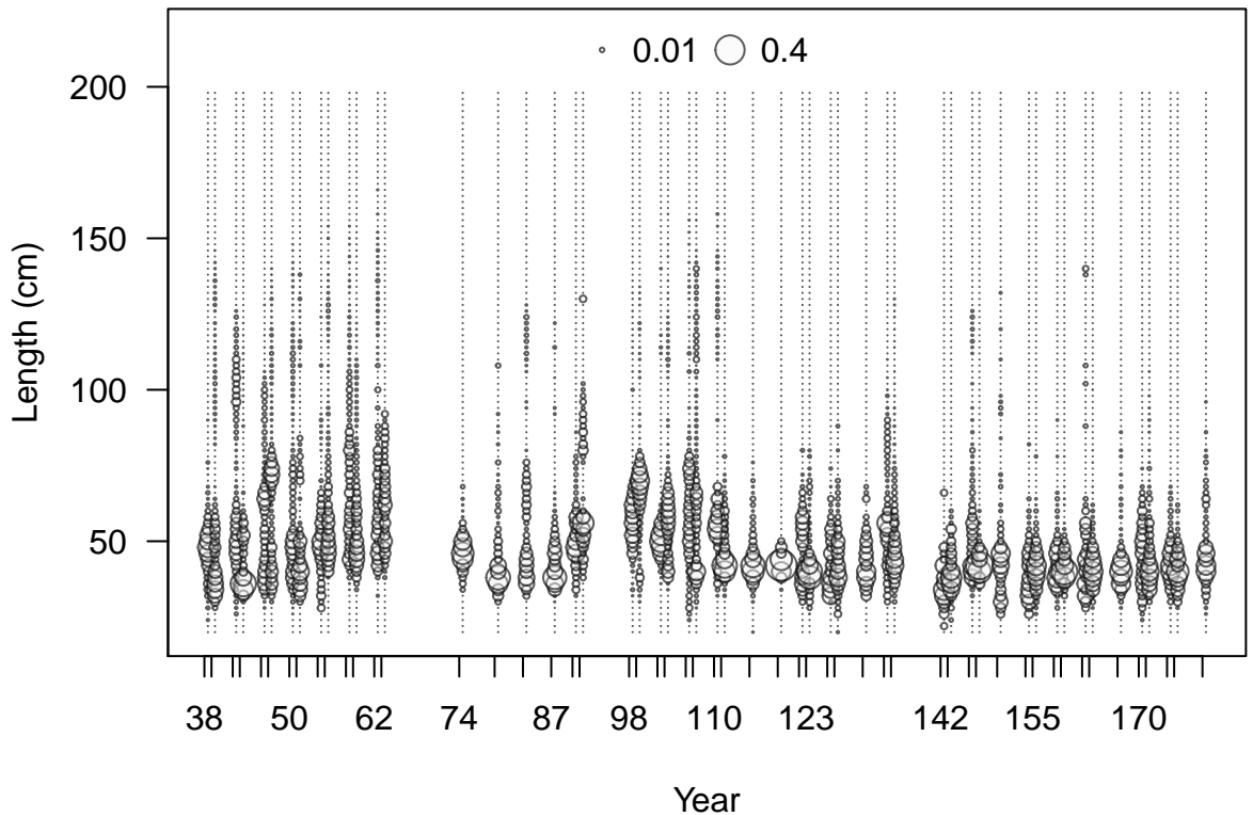
Proportion



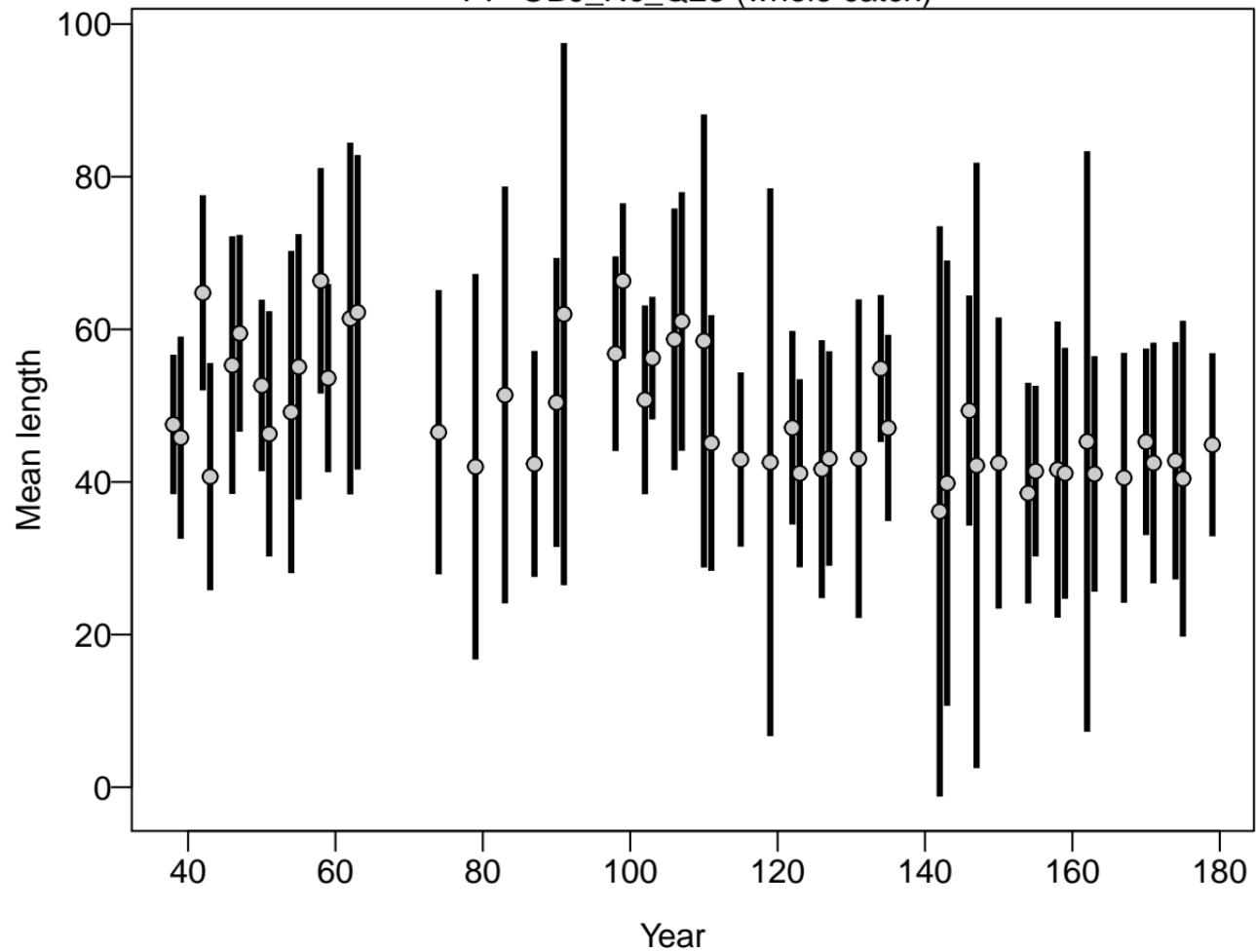
Proportion



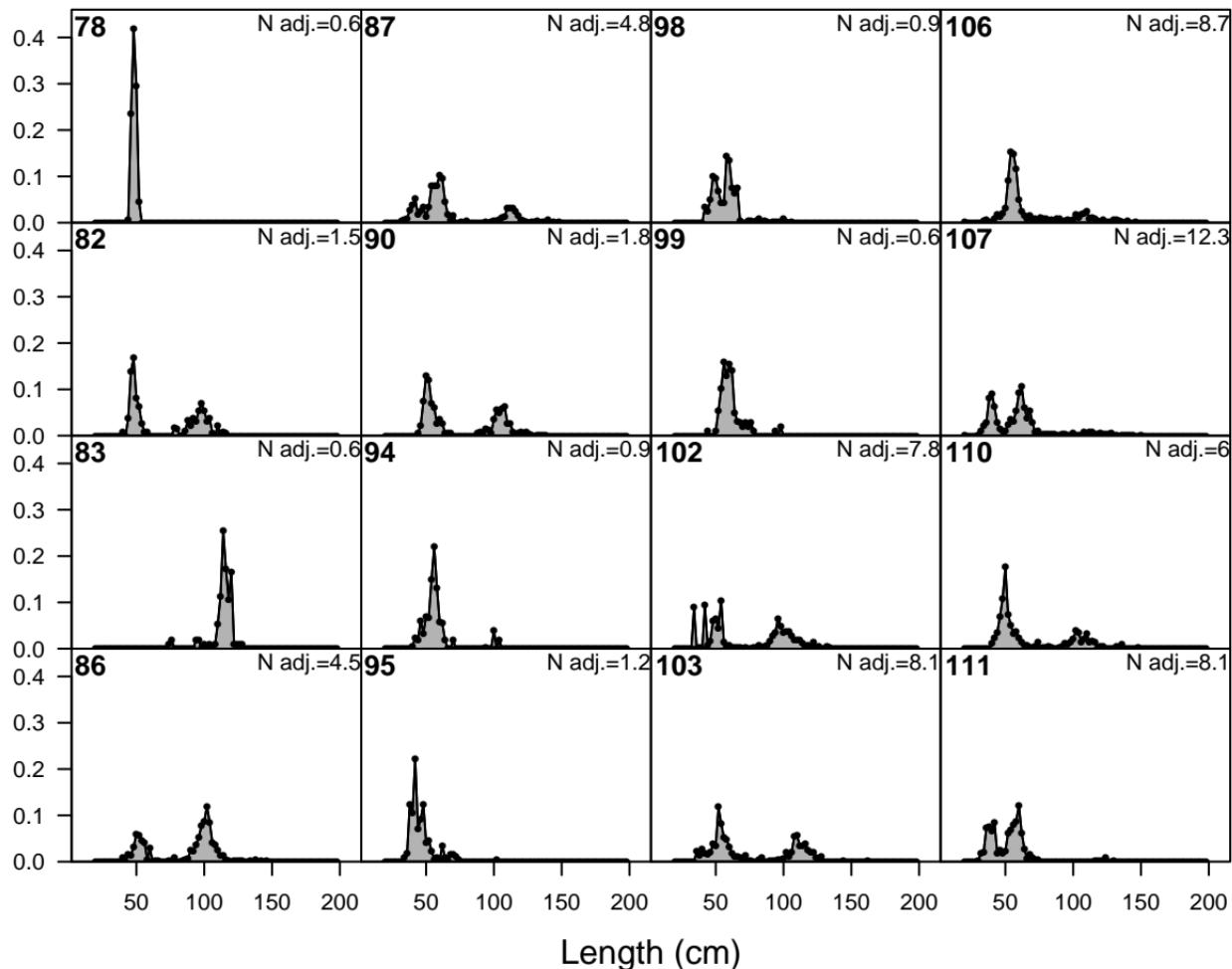




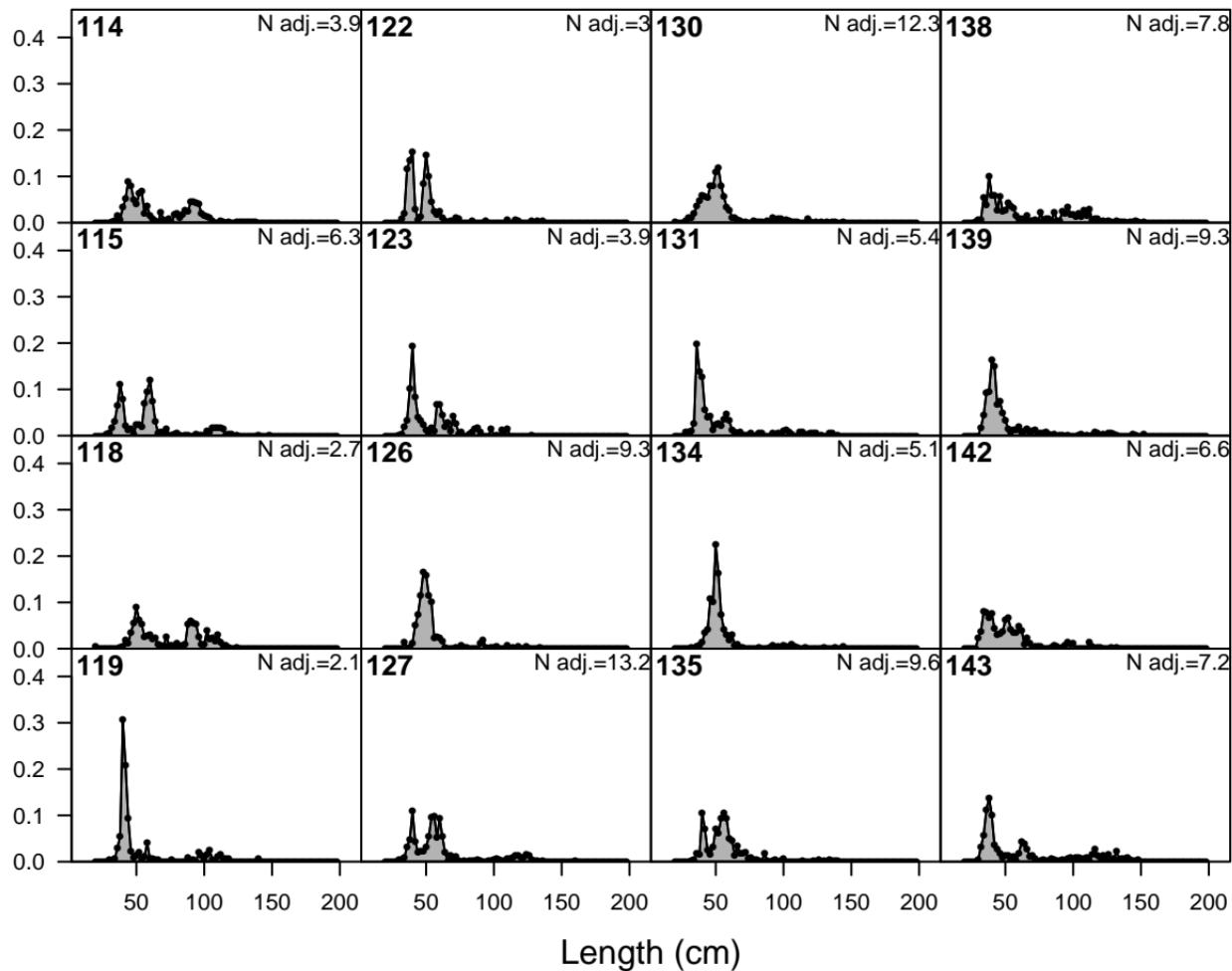
F7-OBJ_Nc_Q23 (whole catch)



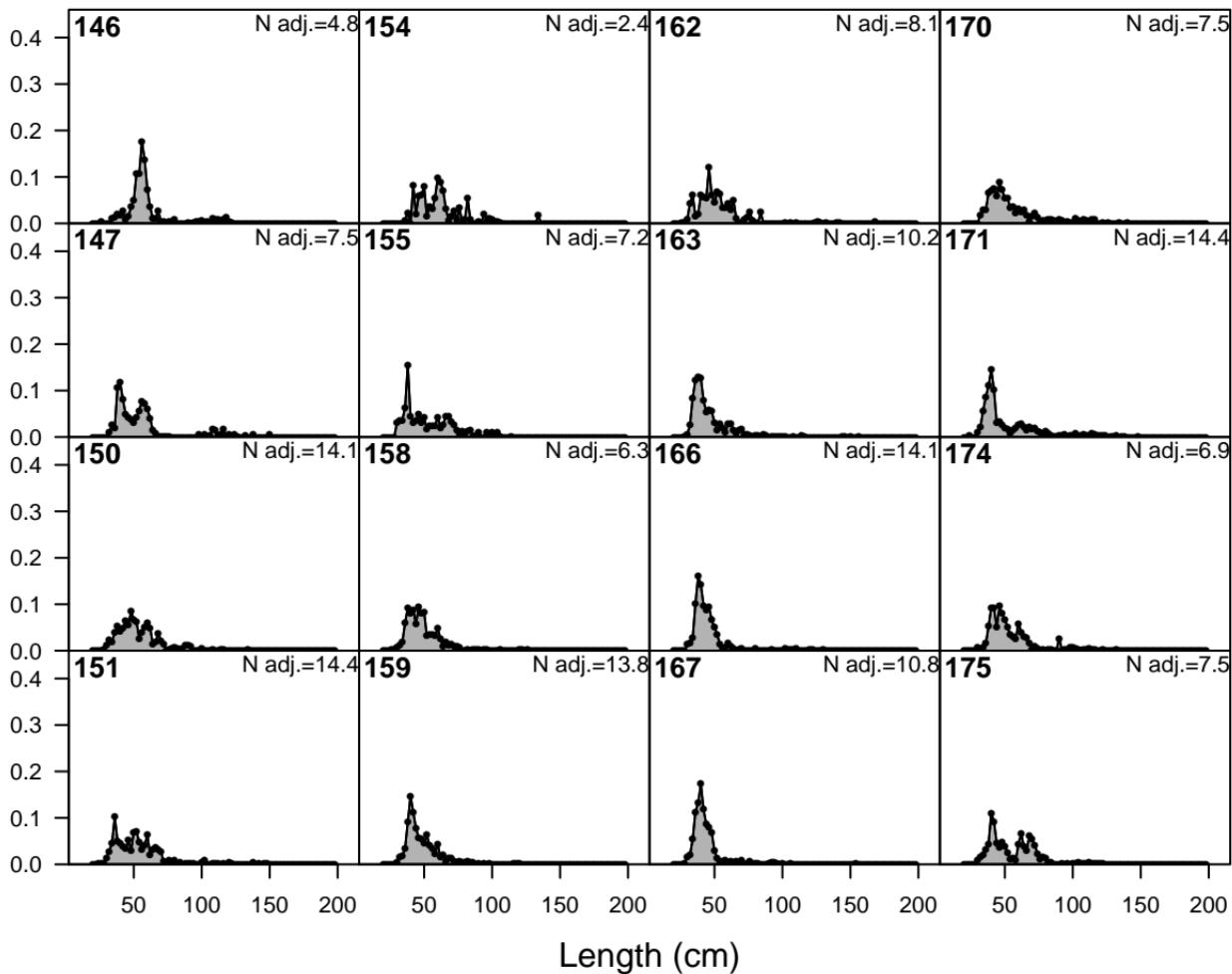
Proportion



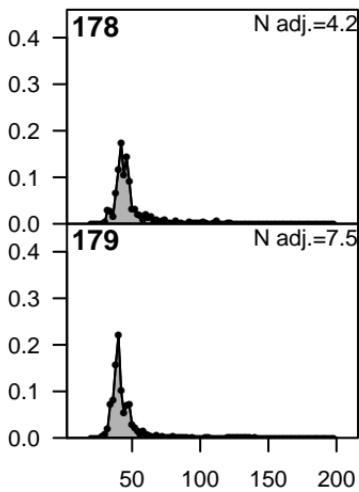
Proportion



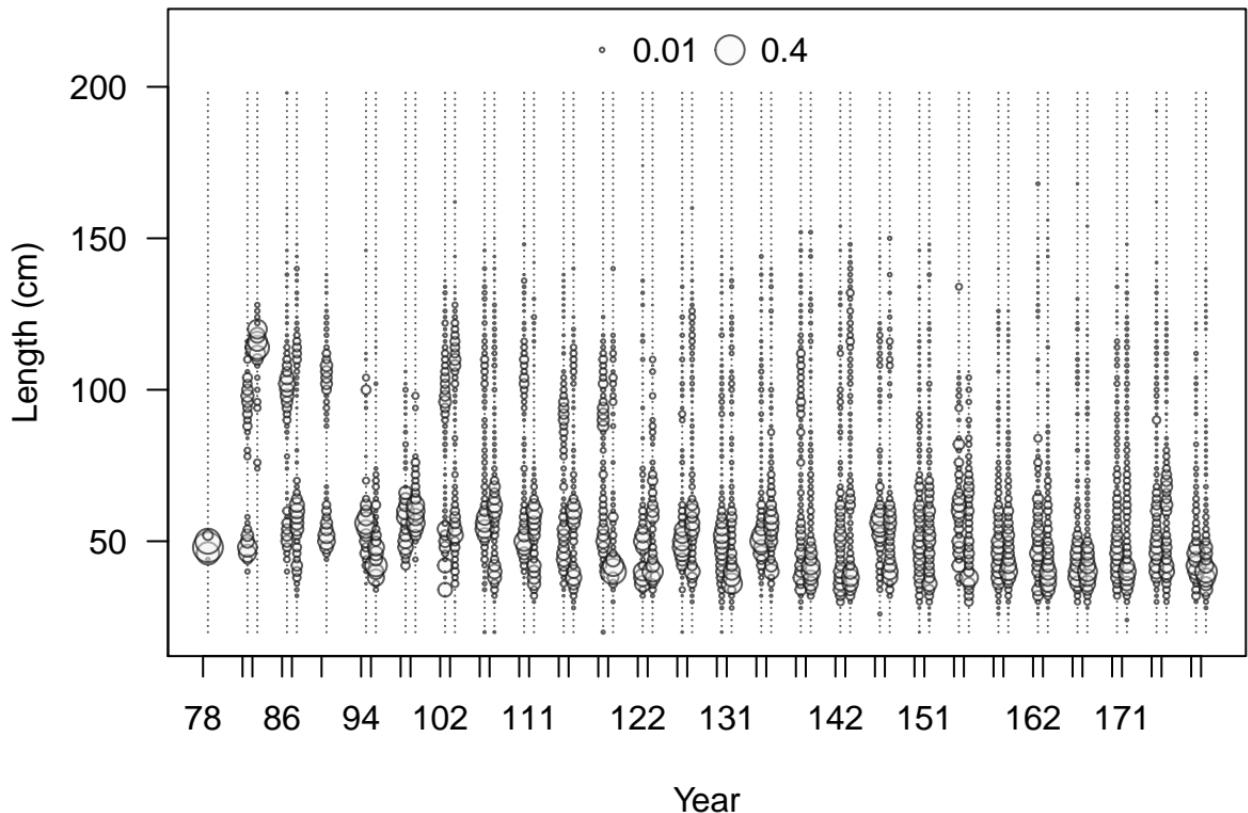
Proportion



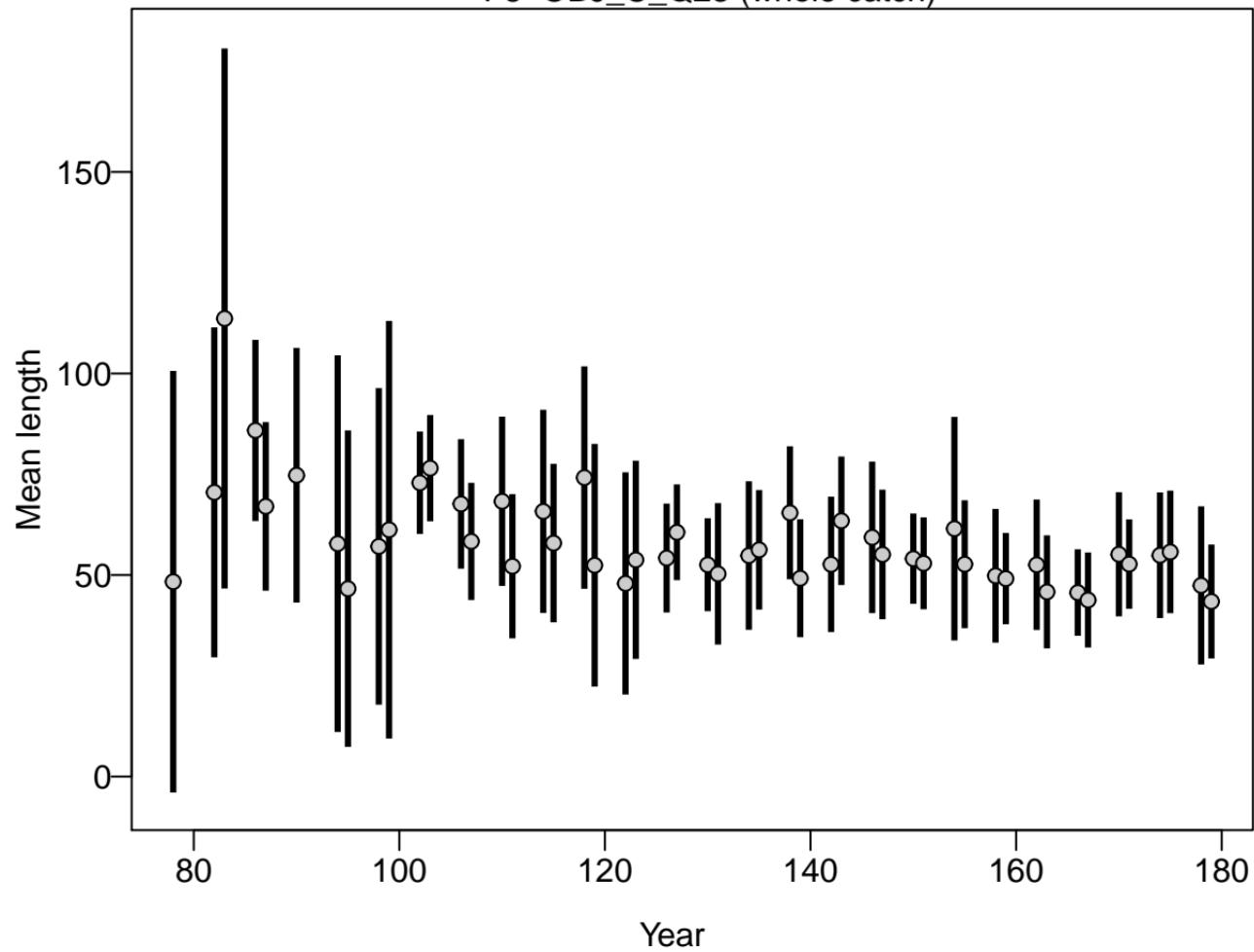
Proportion



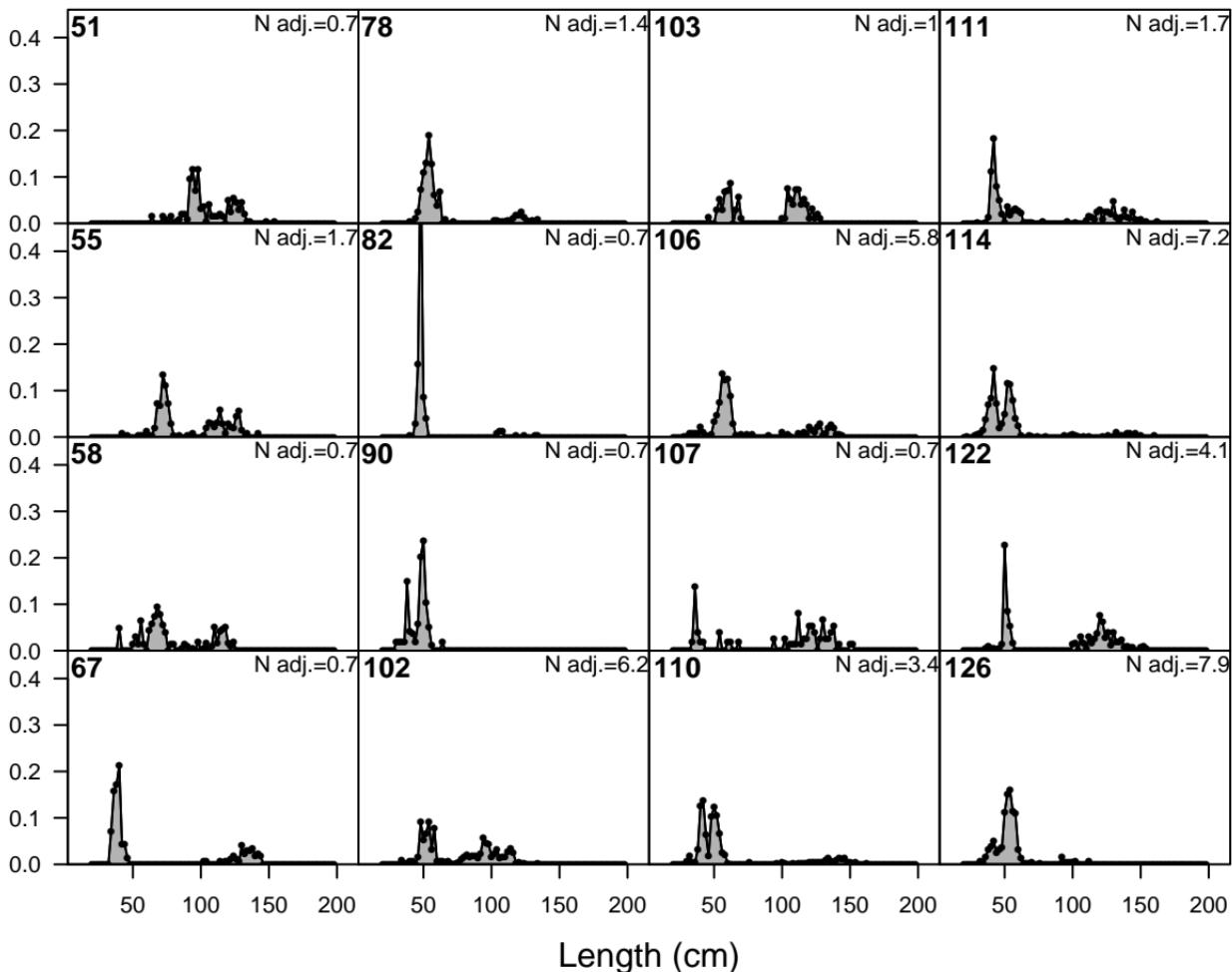
Length (cm)



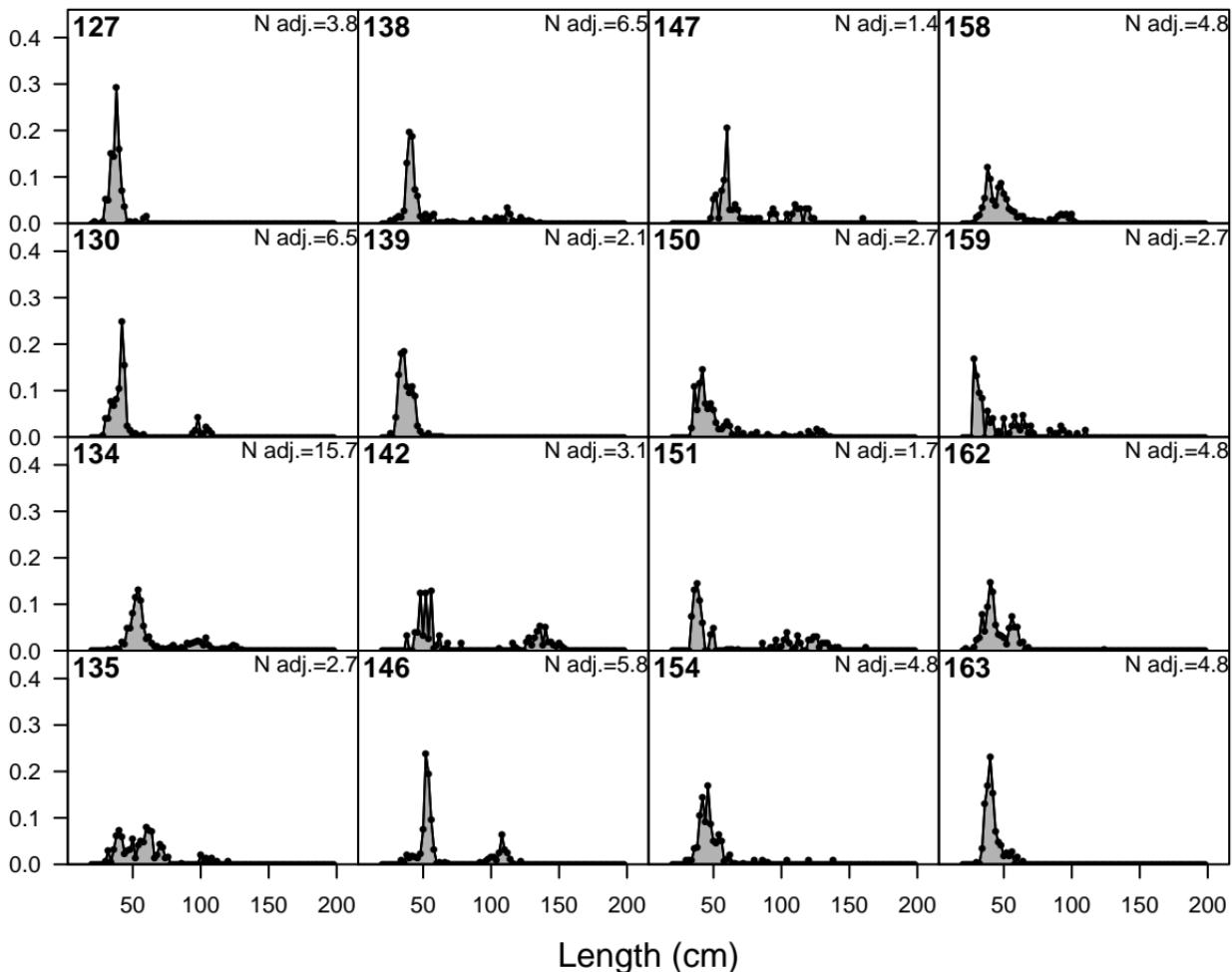
F8-OBJ_C_Q23 (whole catch)

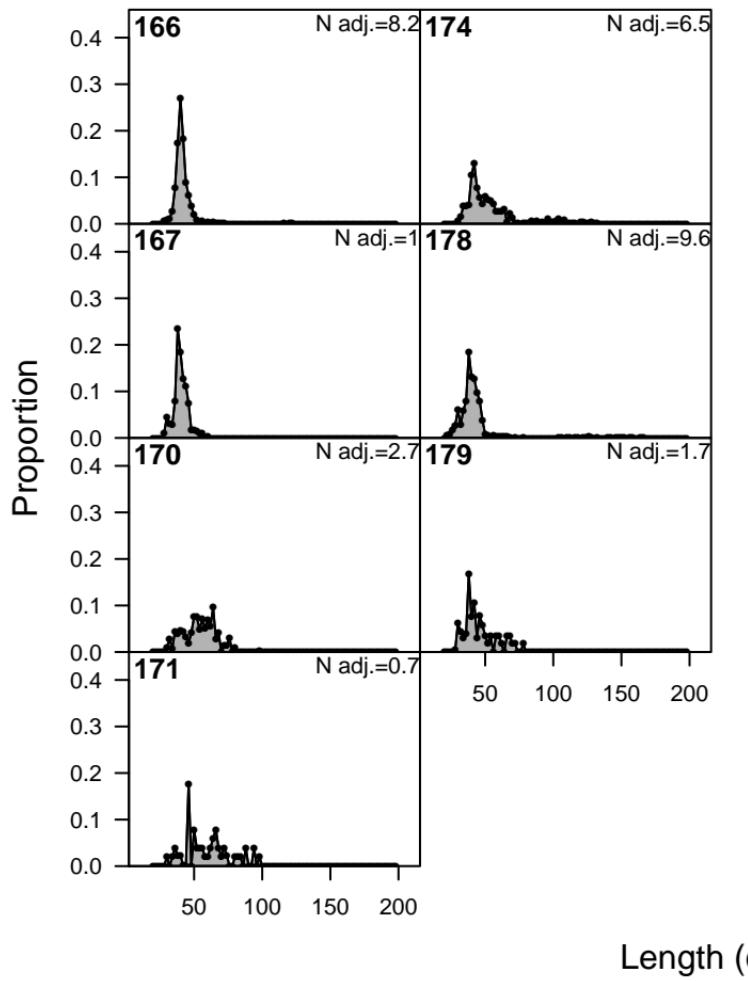


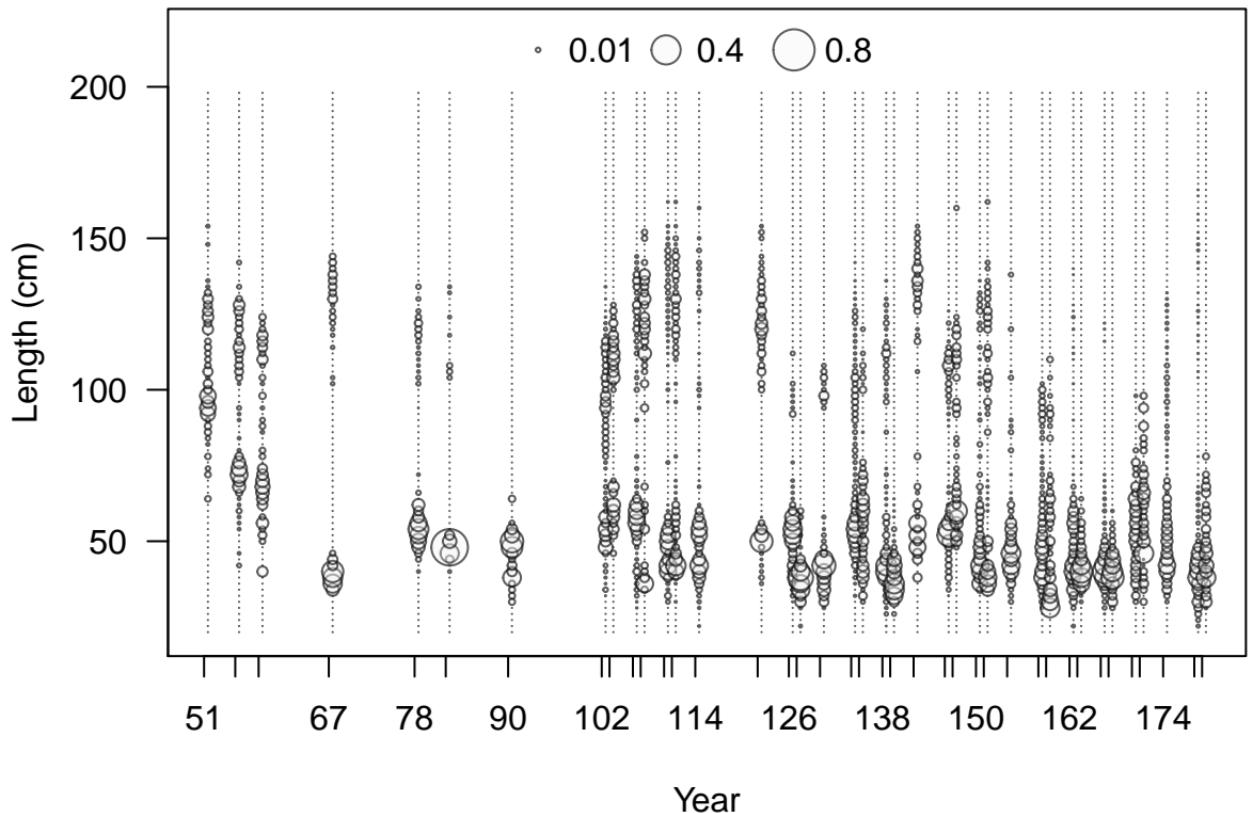
Proportion



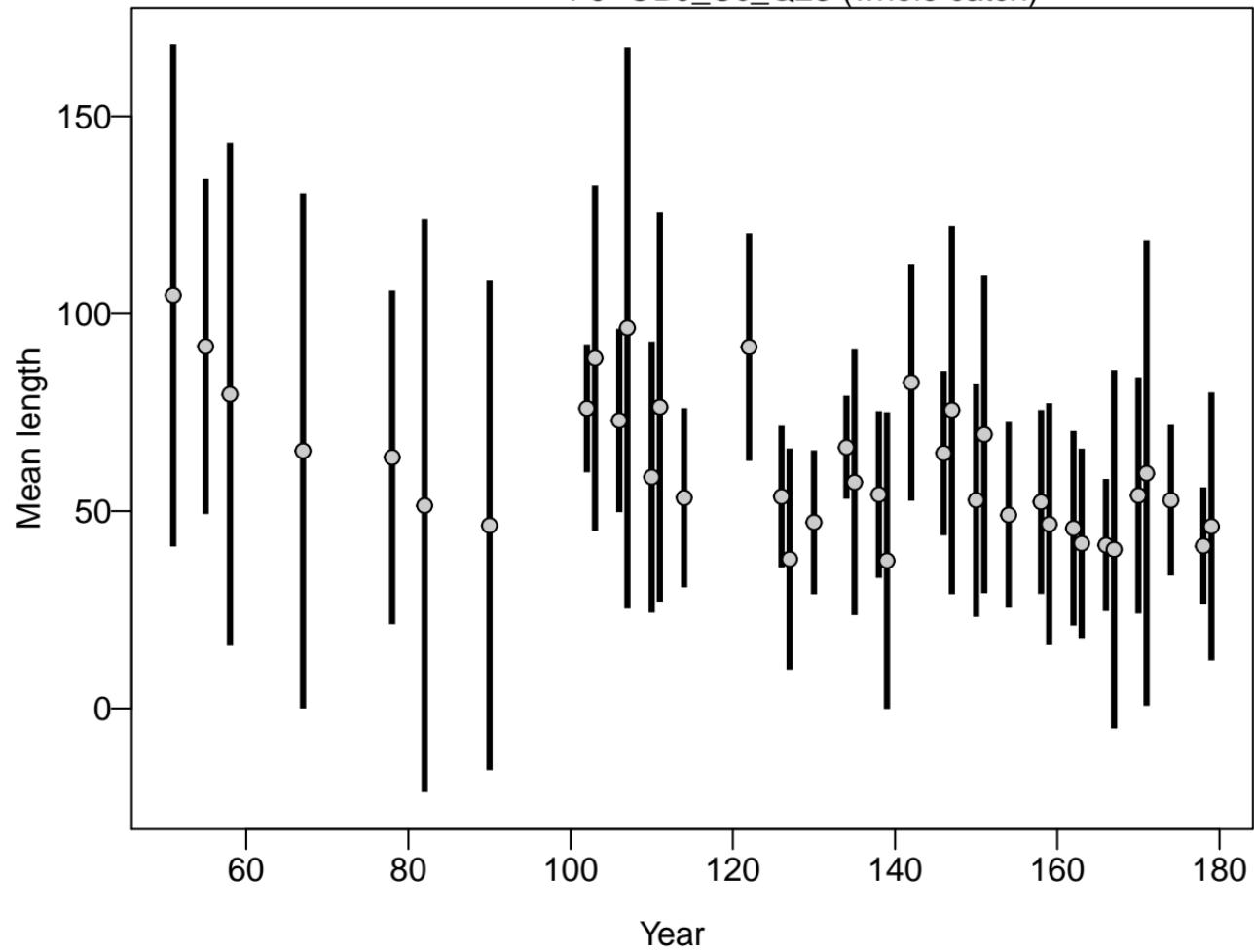
Proportion

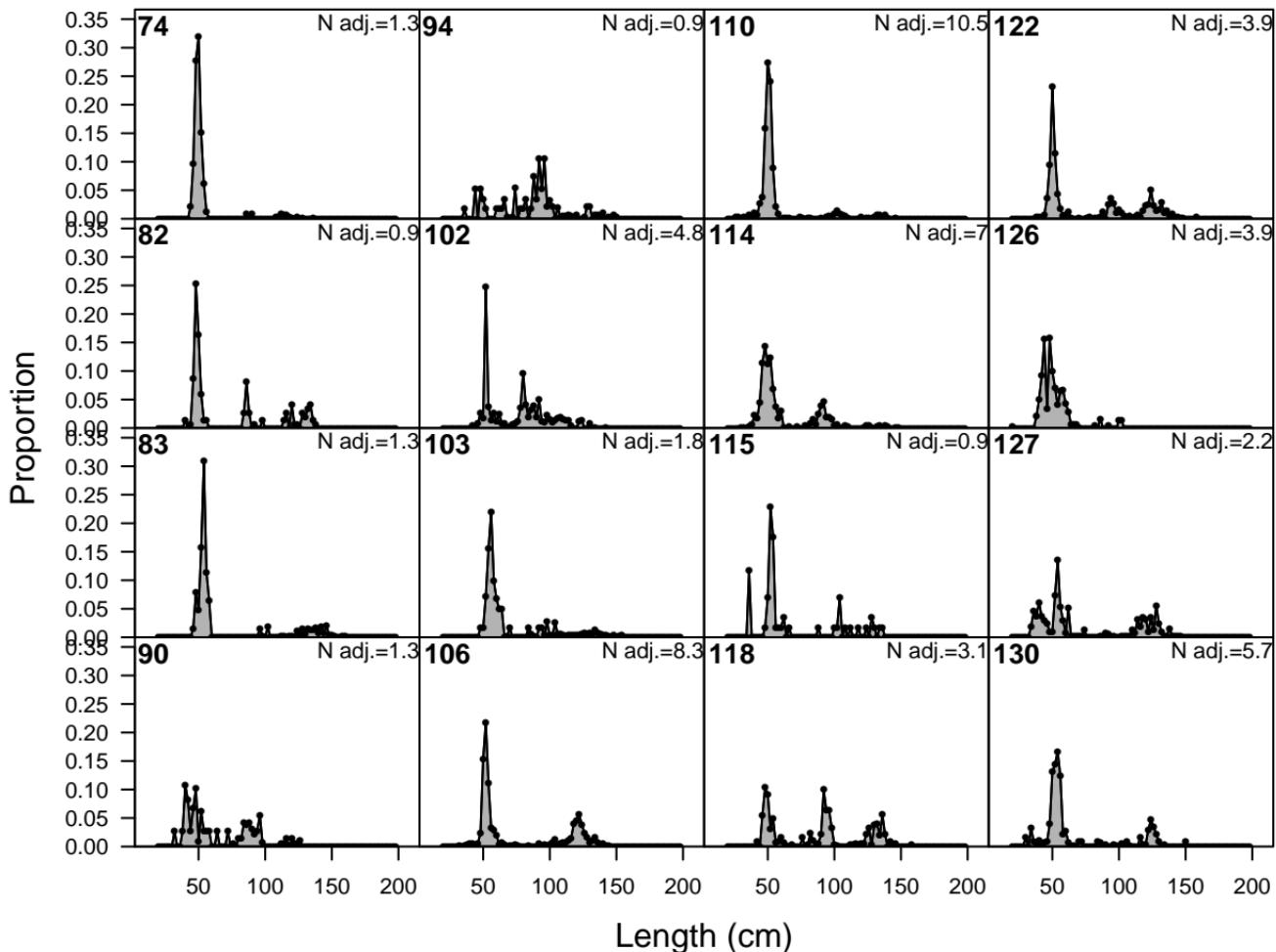


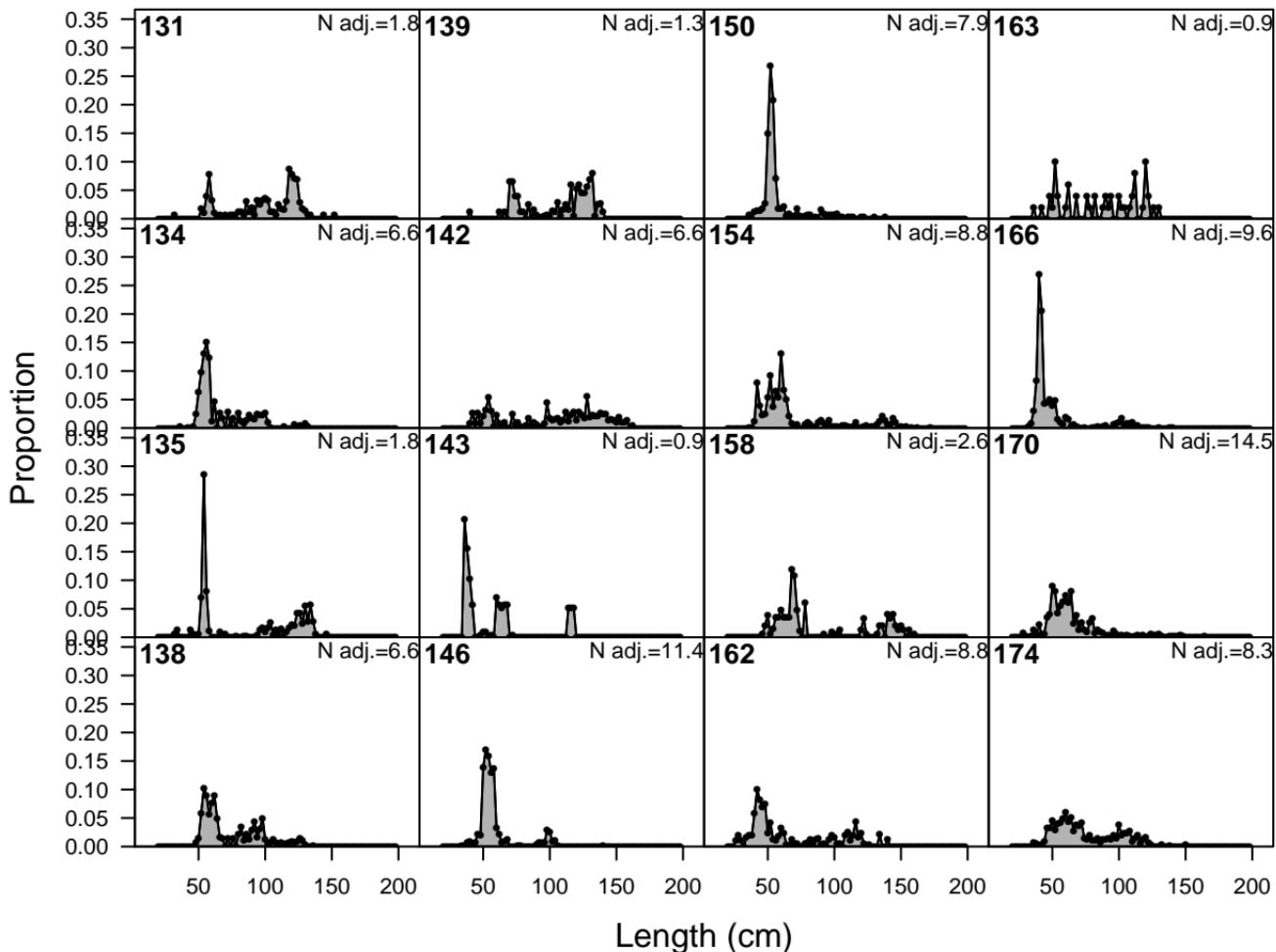


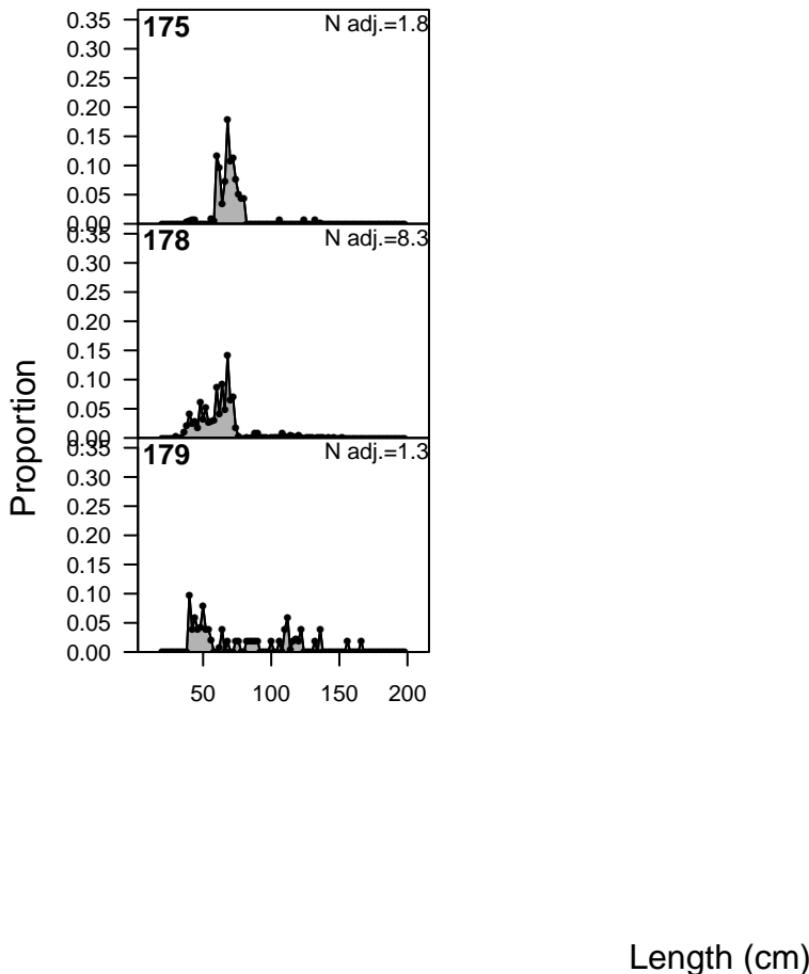


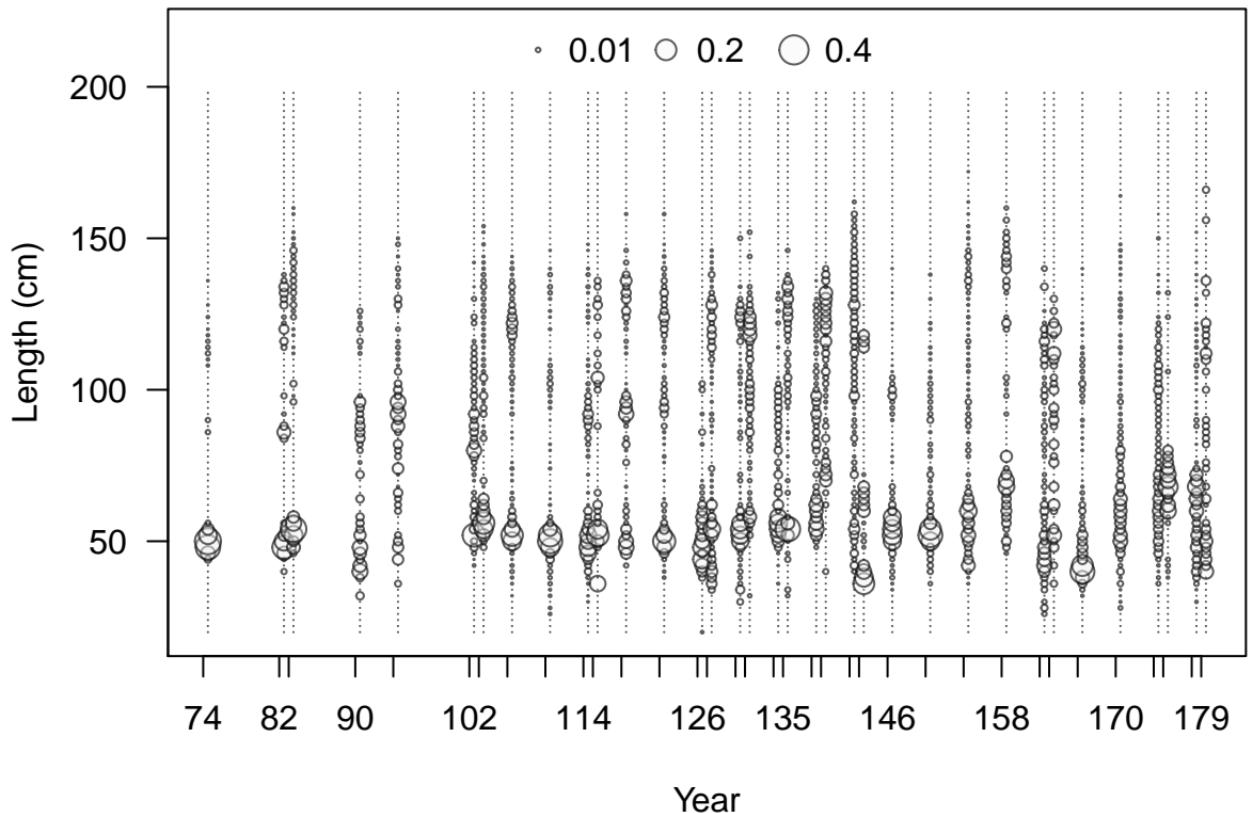
F9-OBJ_Cc_Q23 (whole catch)



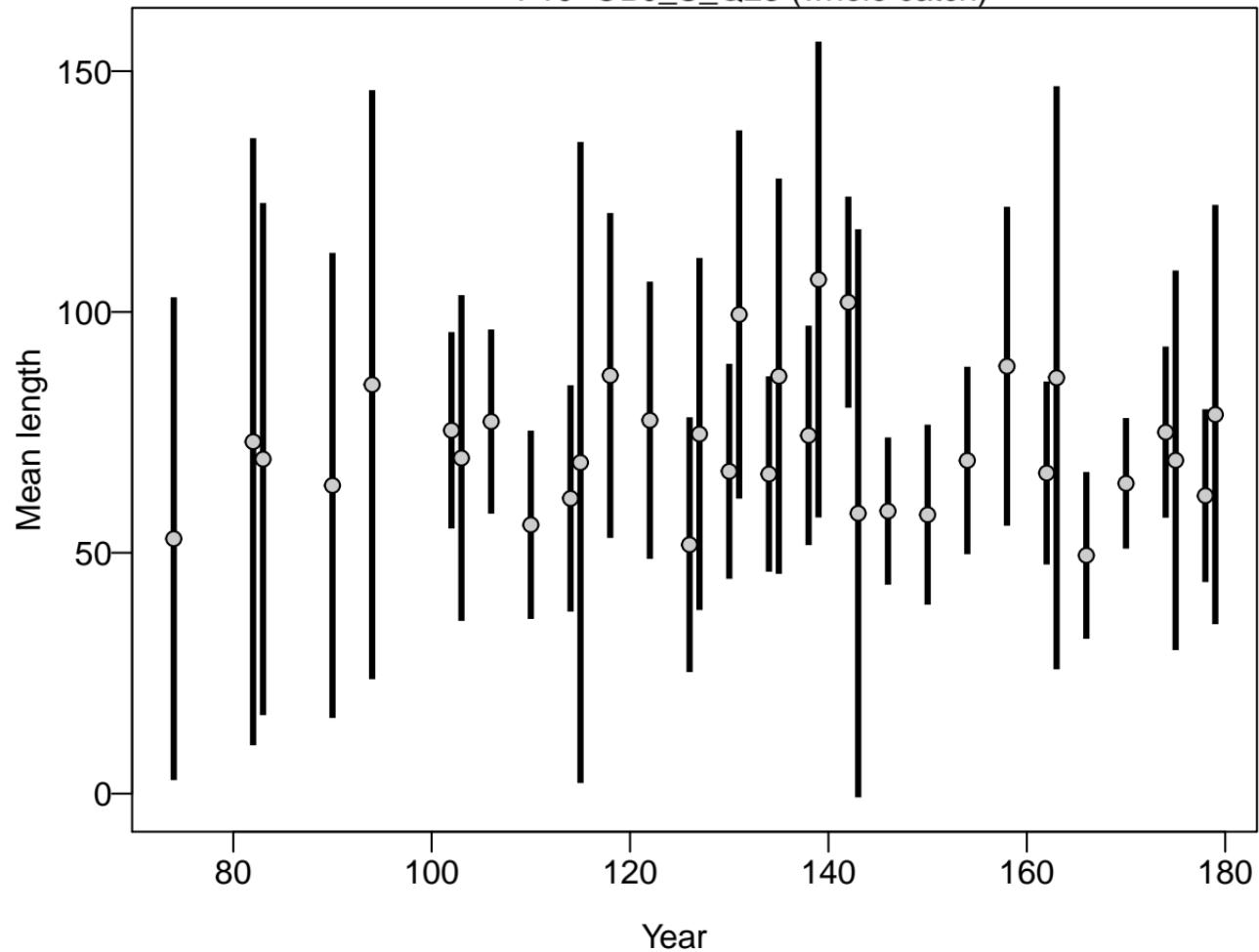


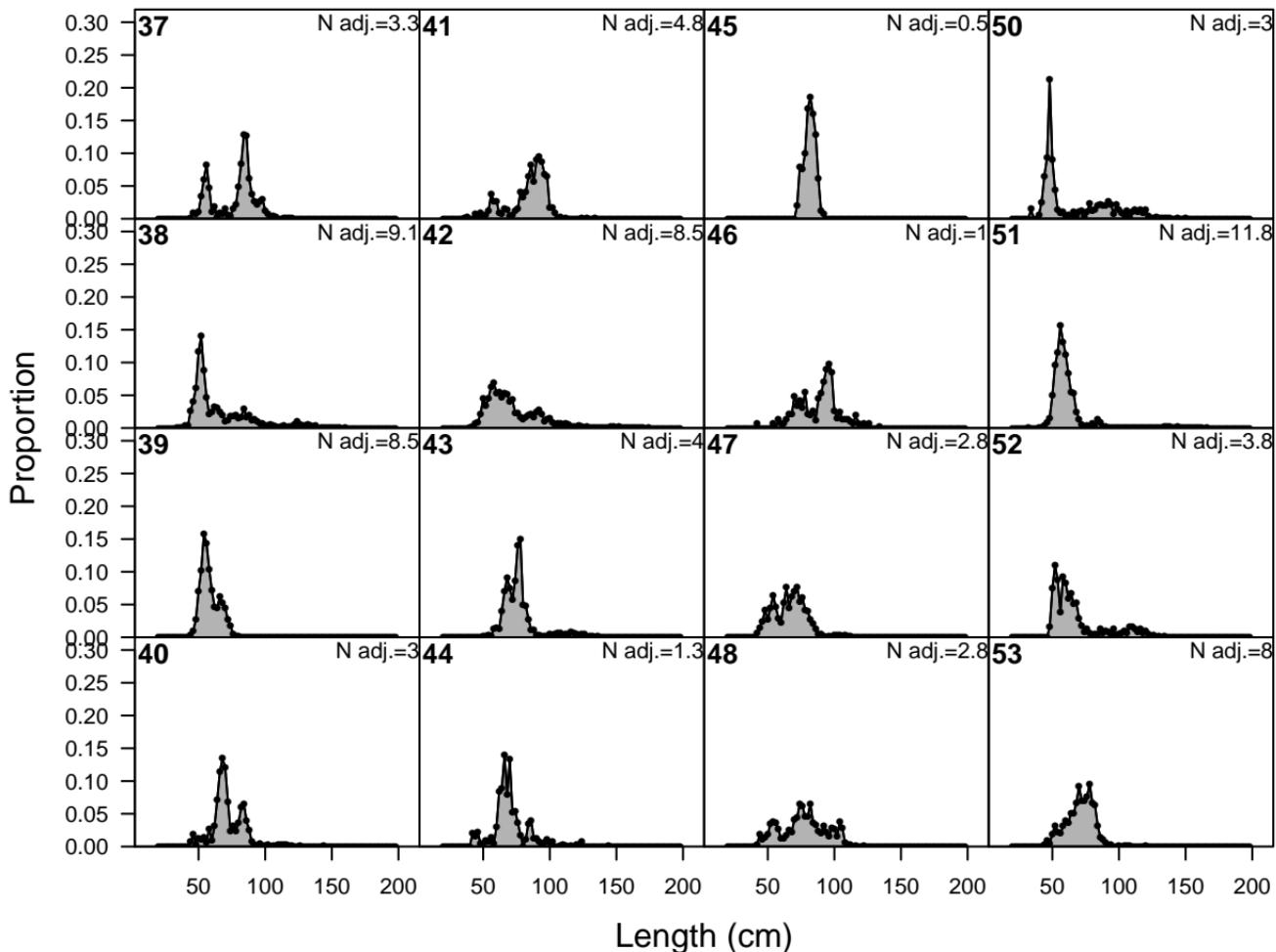


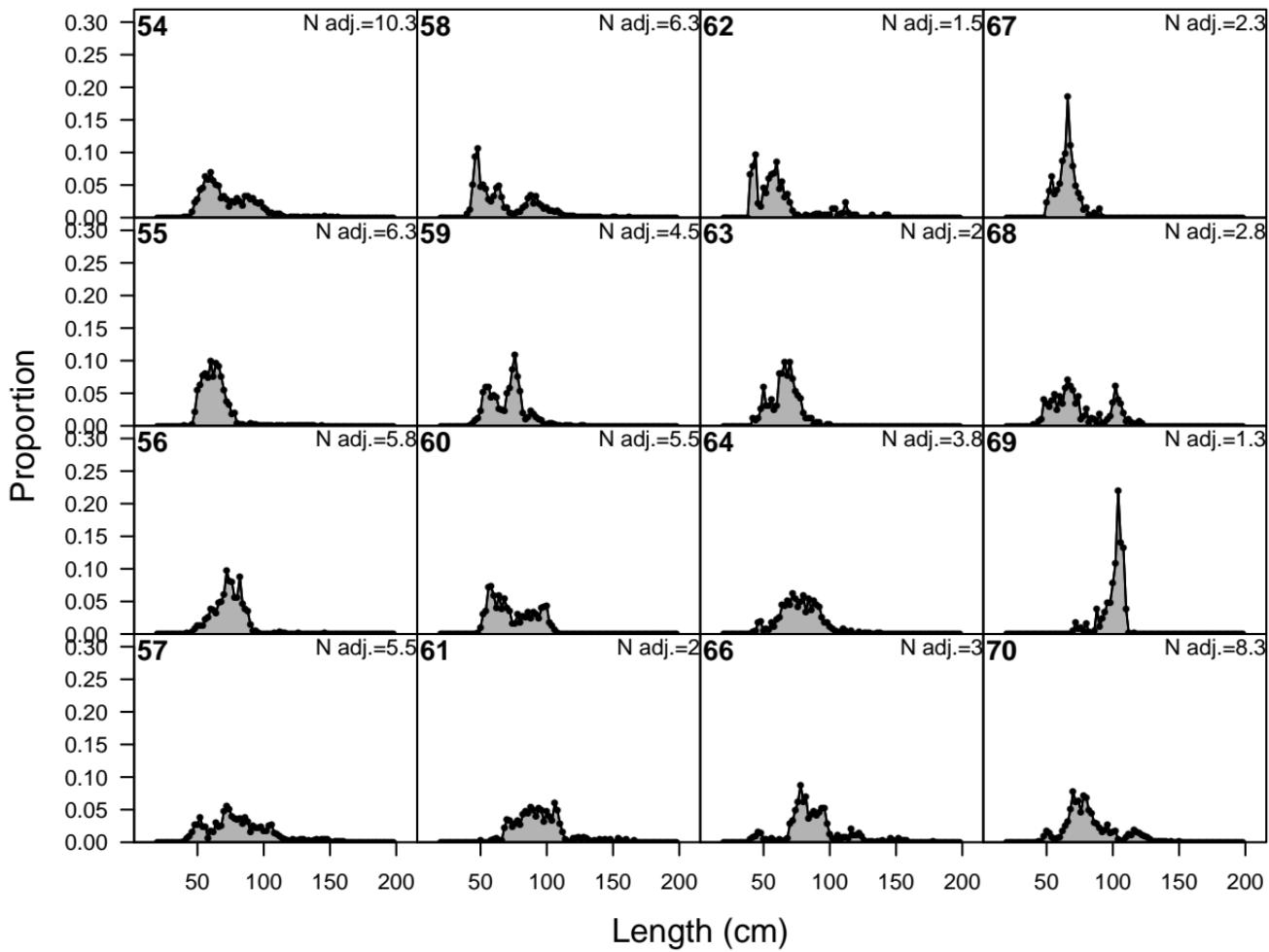


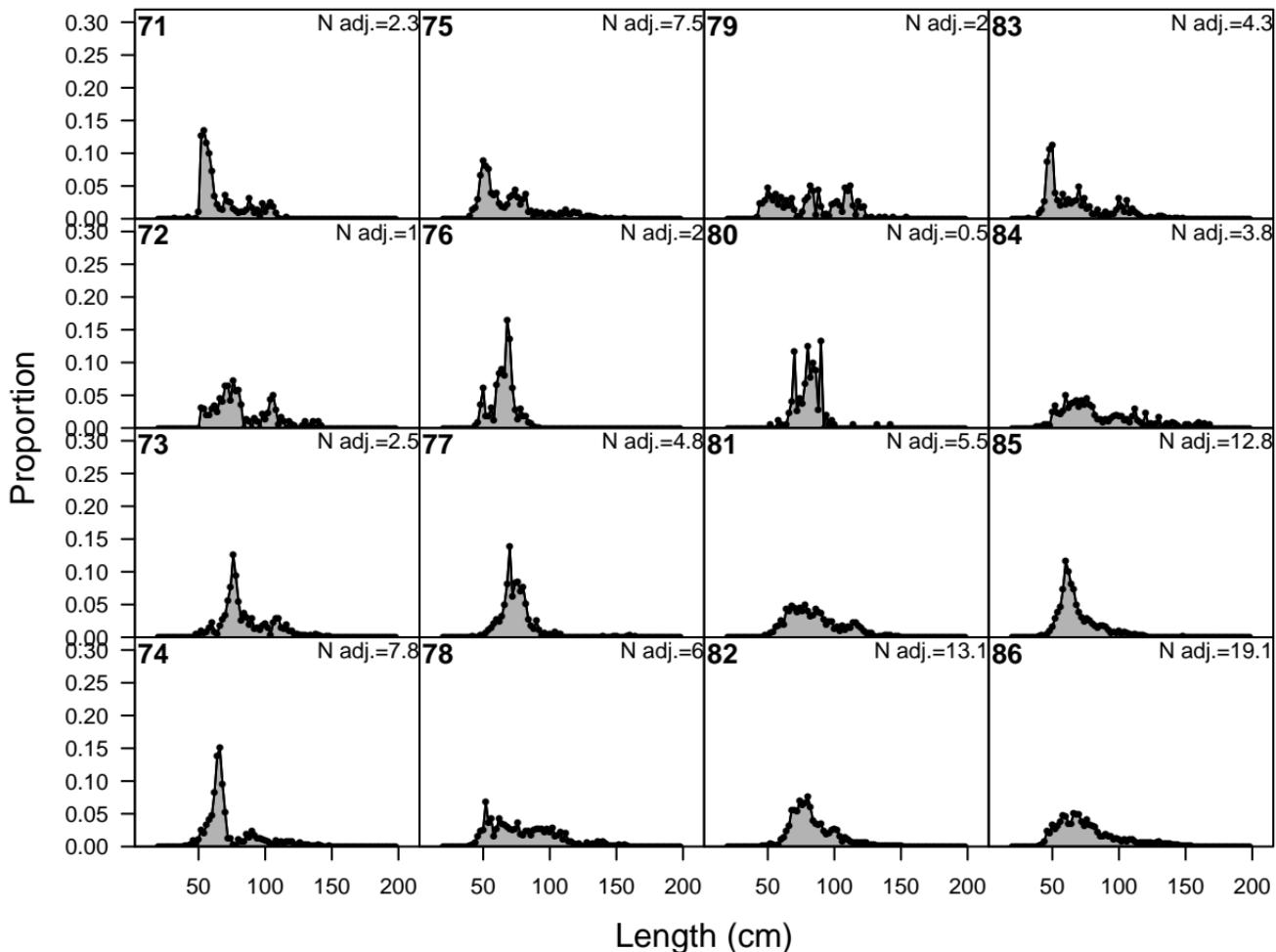


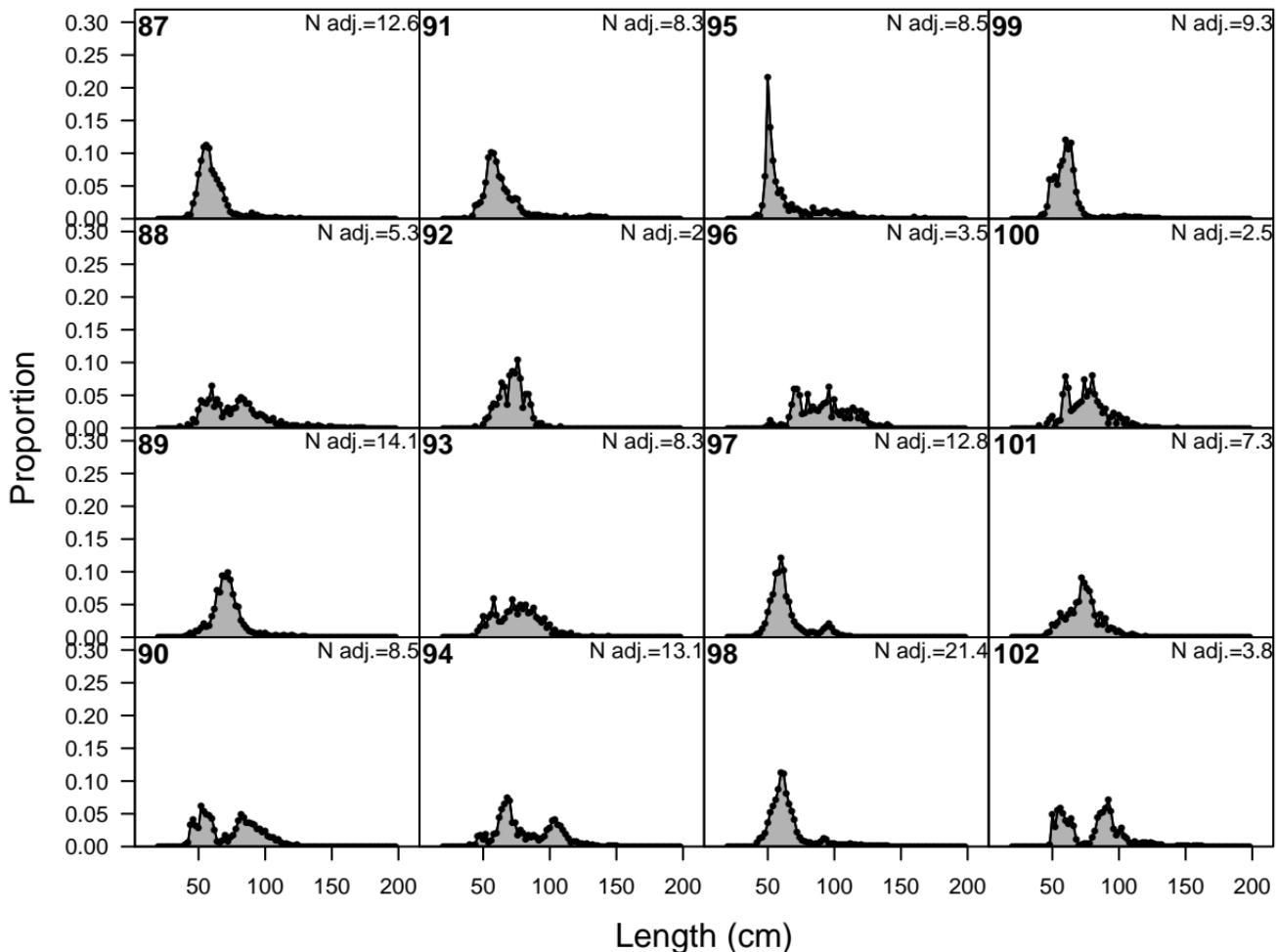
F10-OBJ_S_Q23 (whole catch)

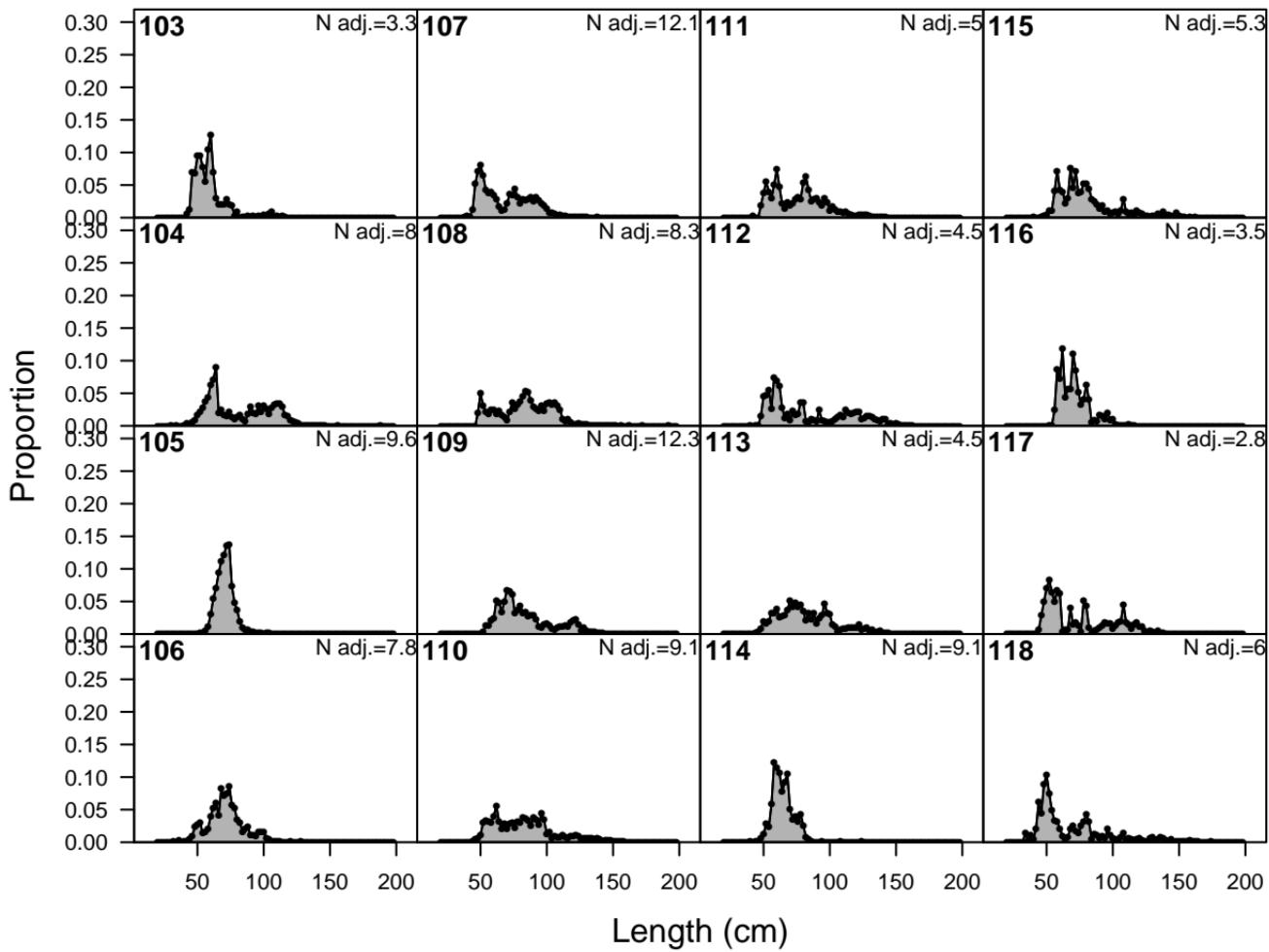


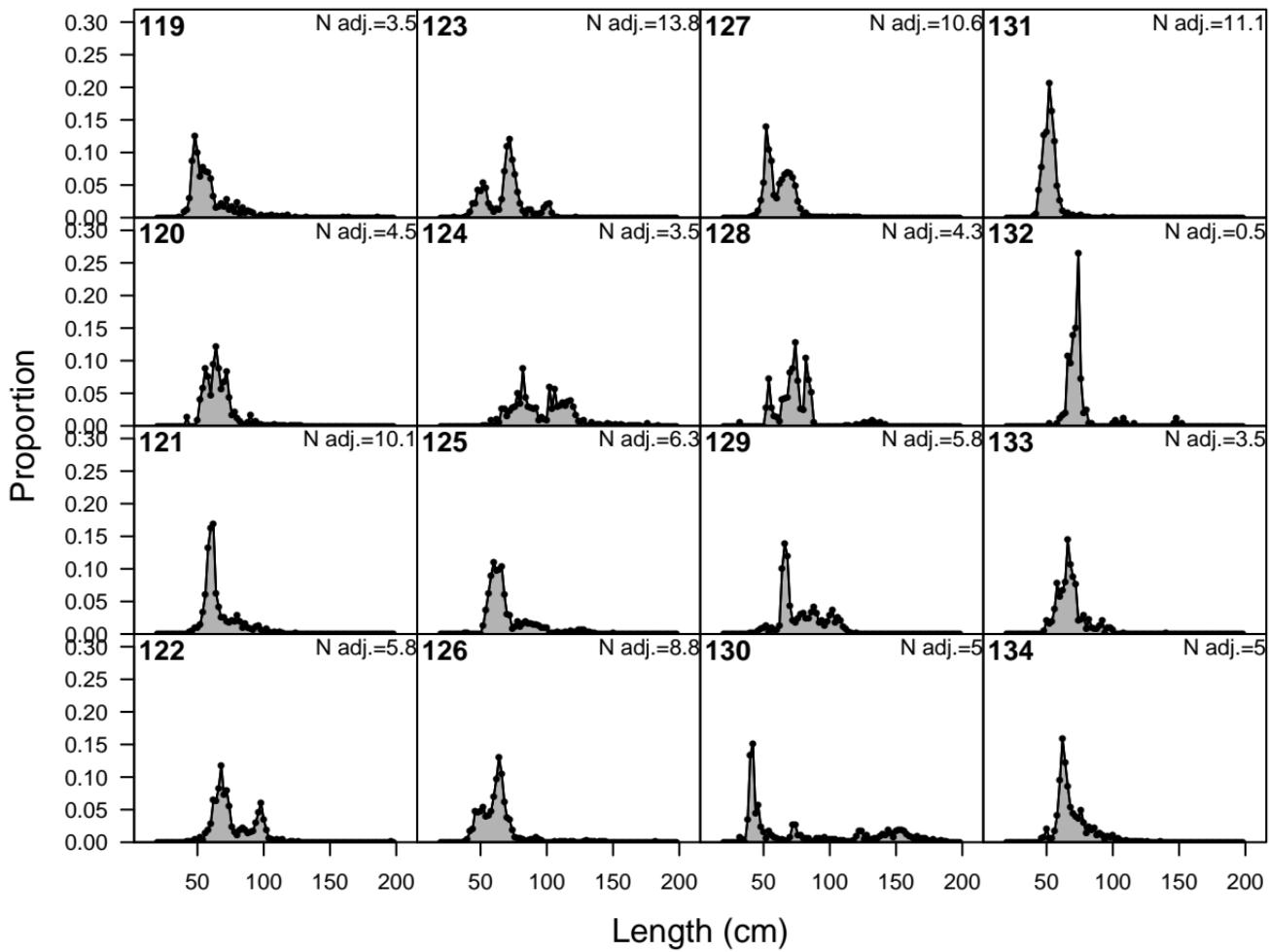


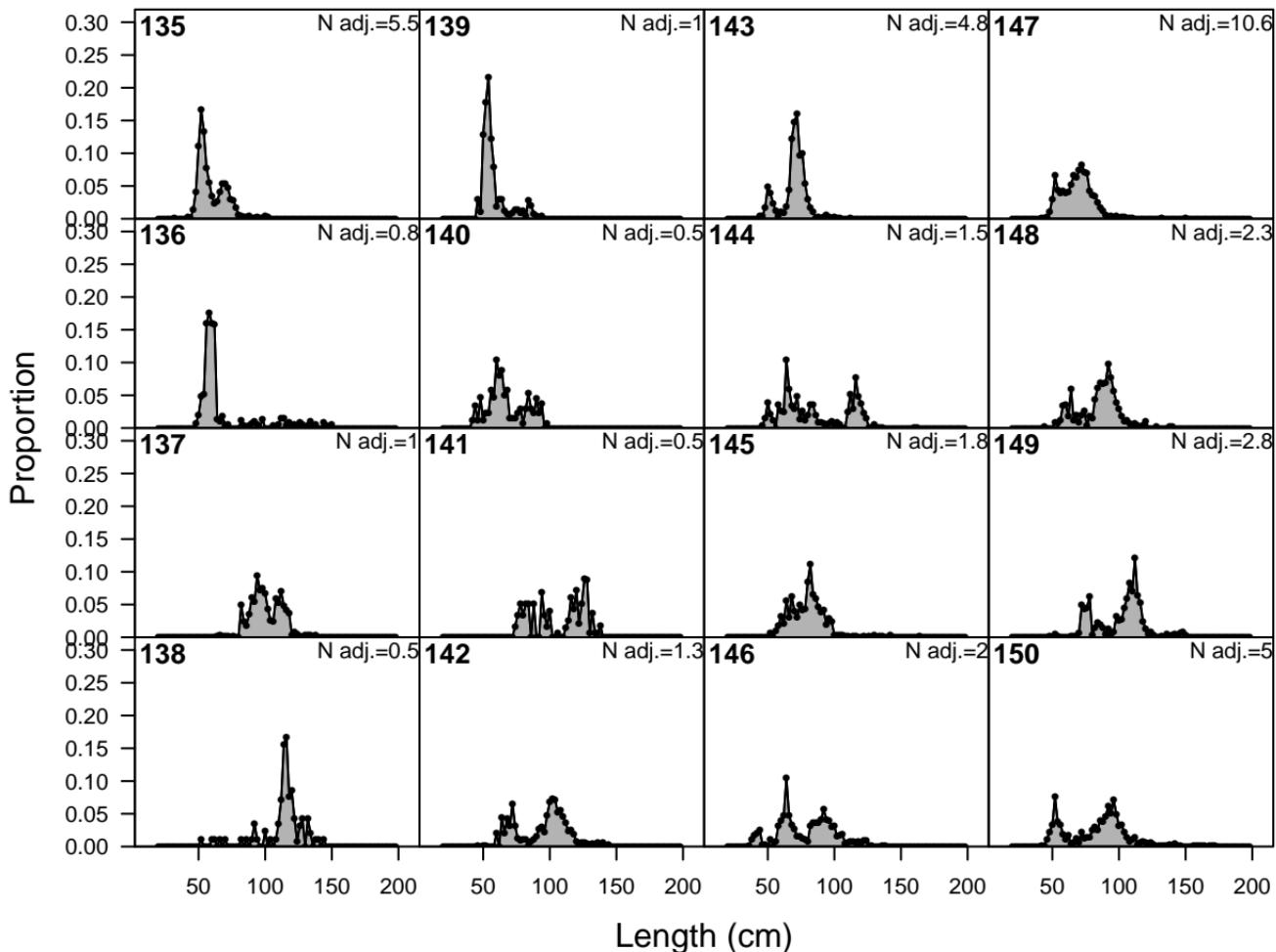


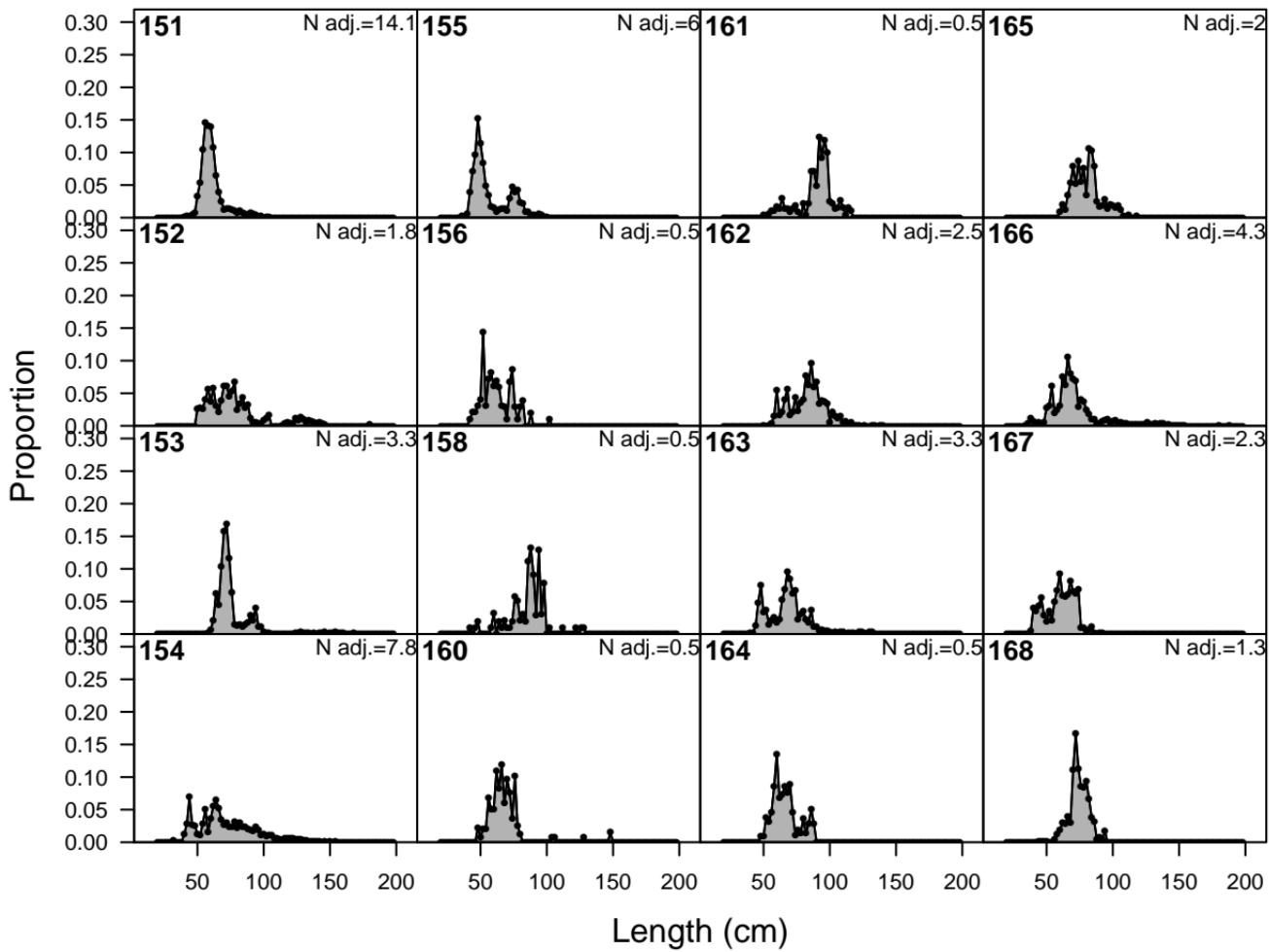


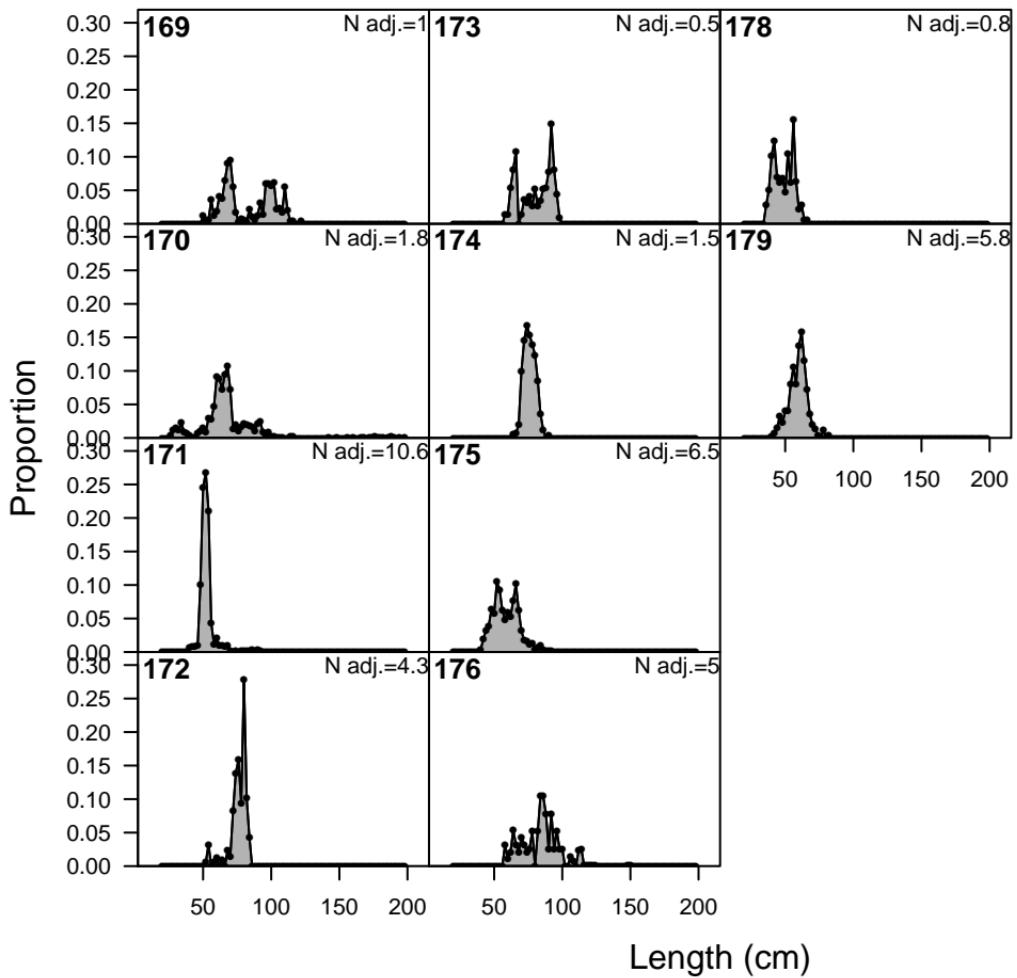


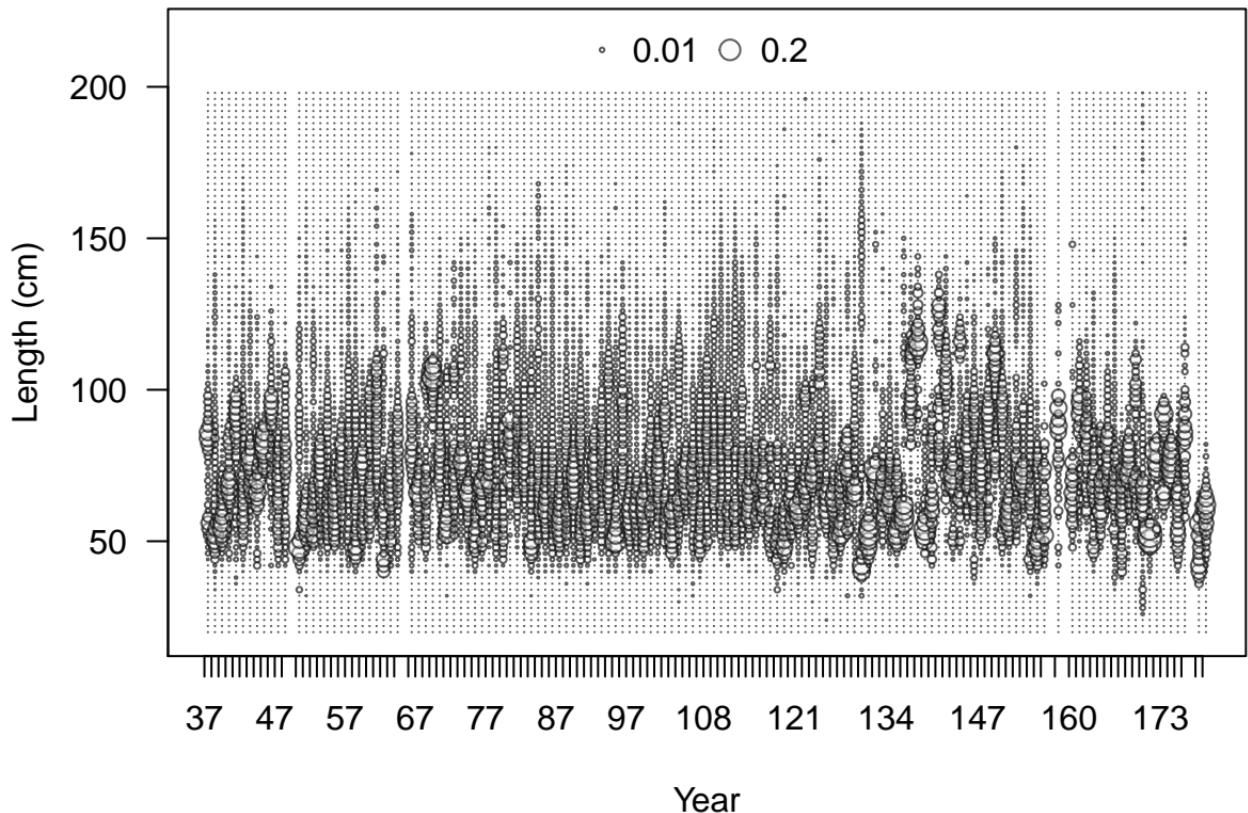




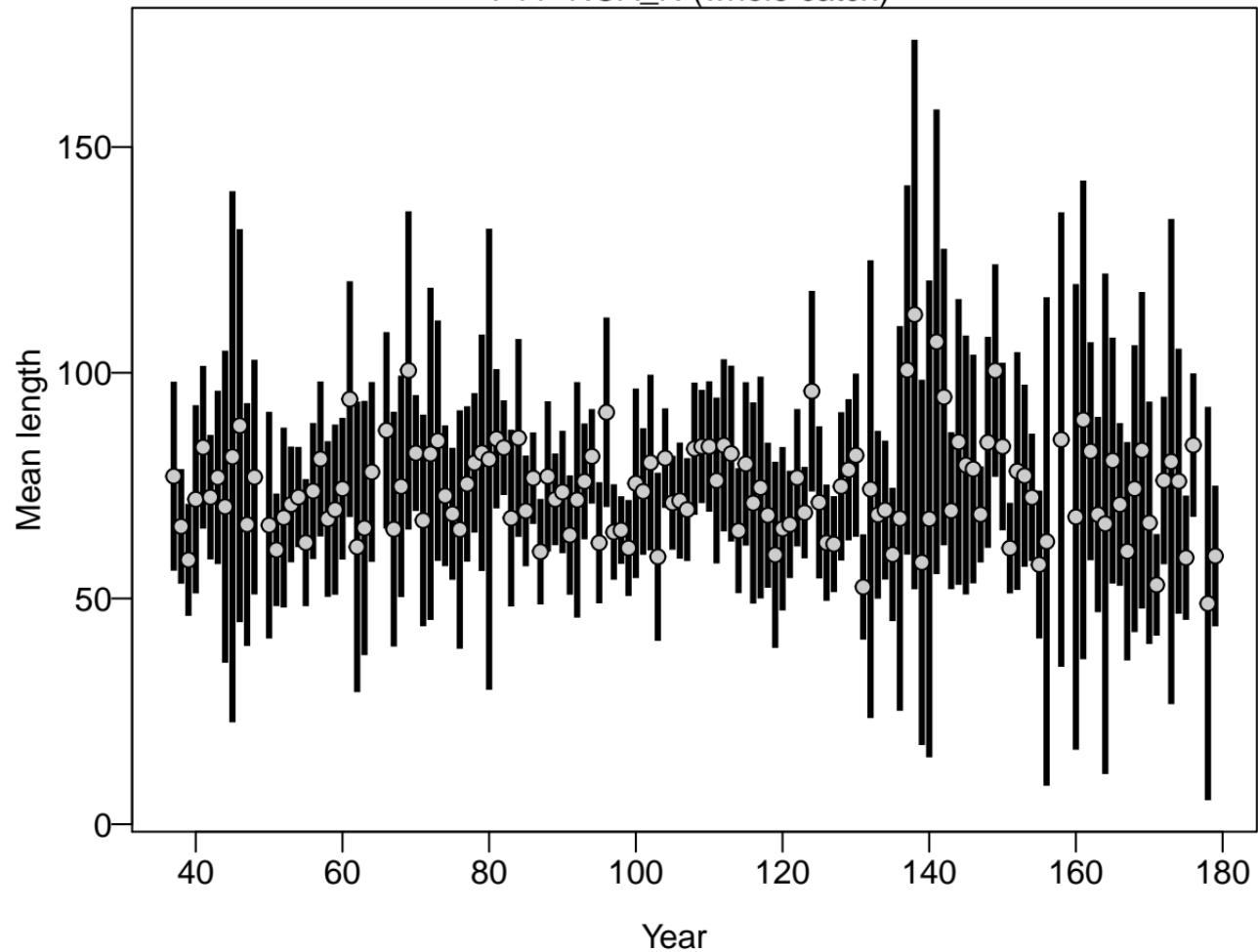




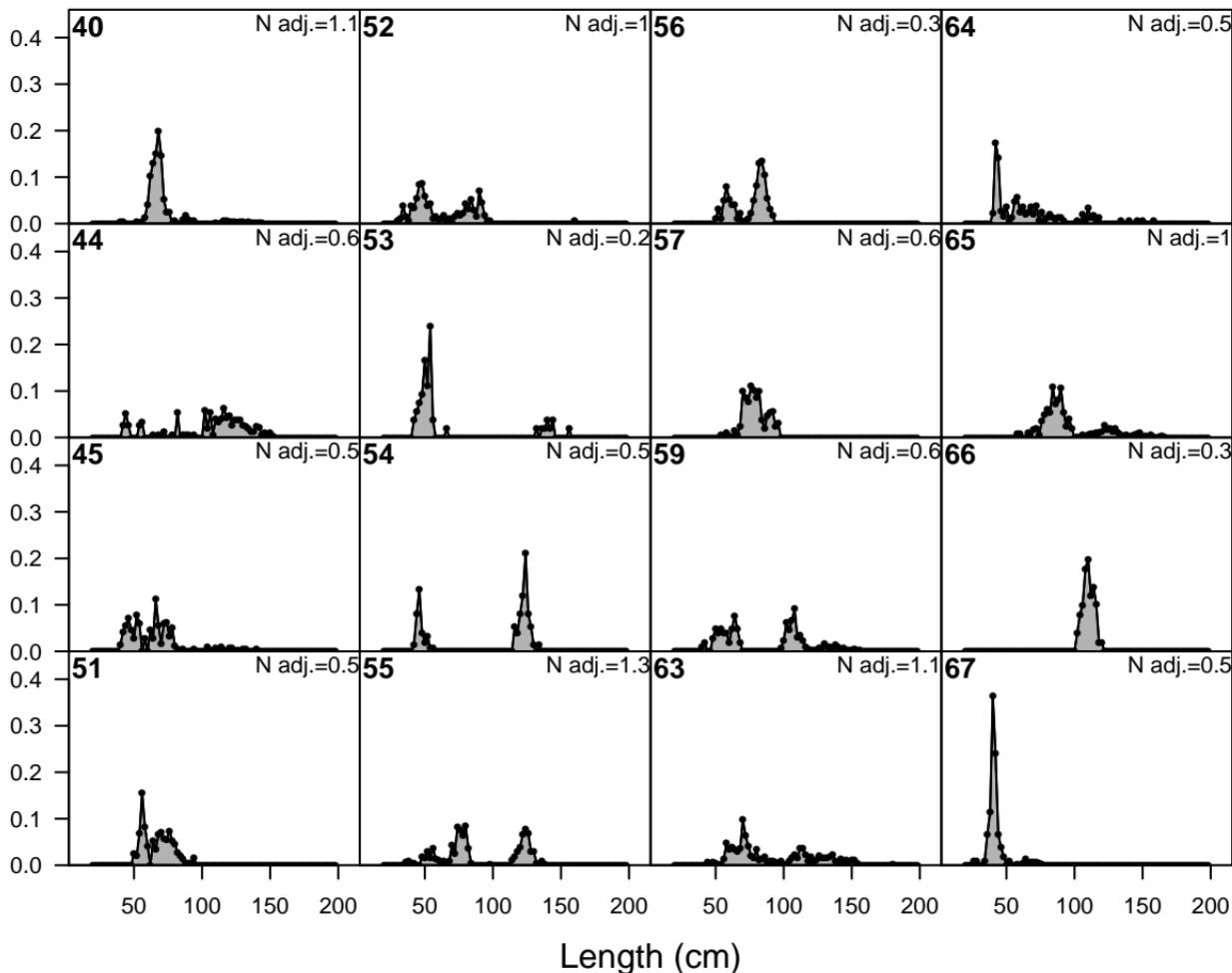


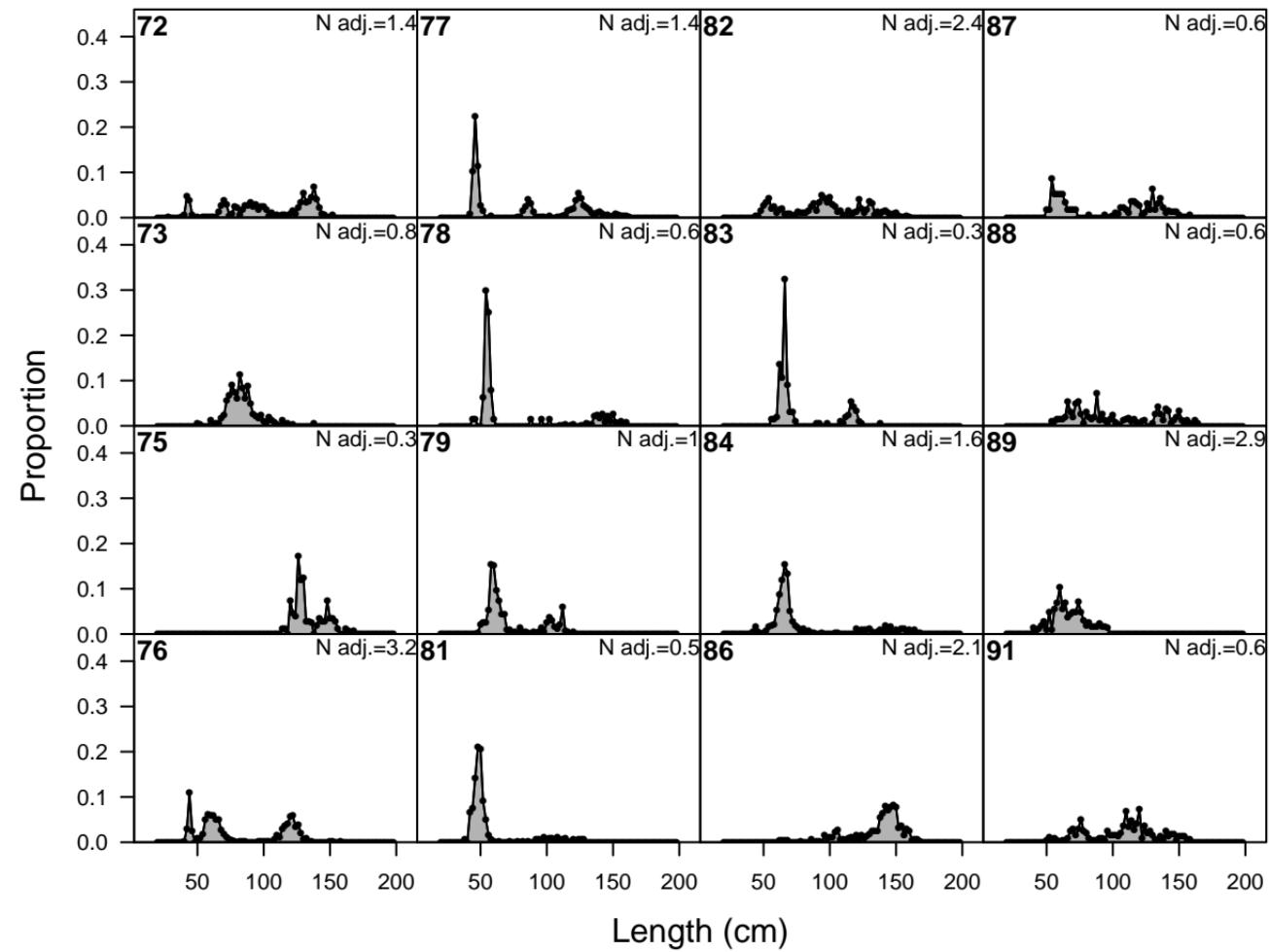


F11–NOA_N (whole catch)

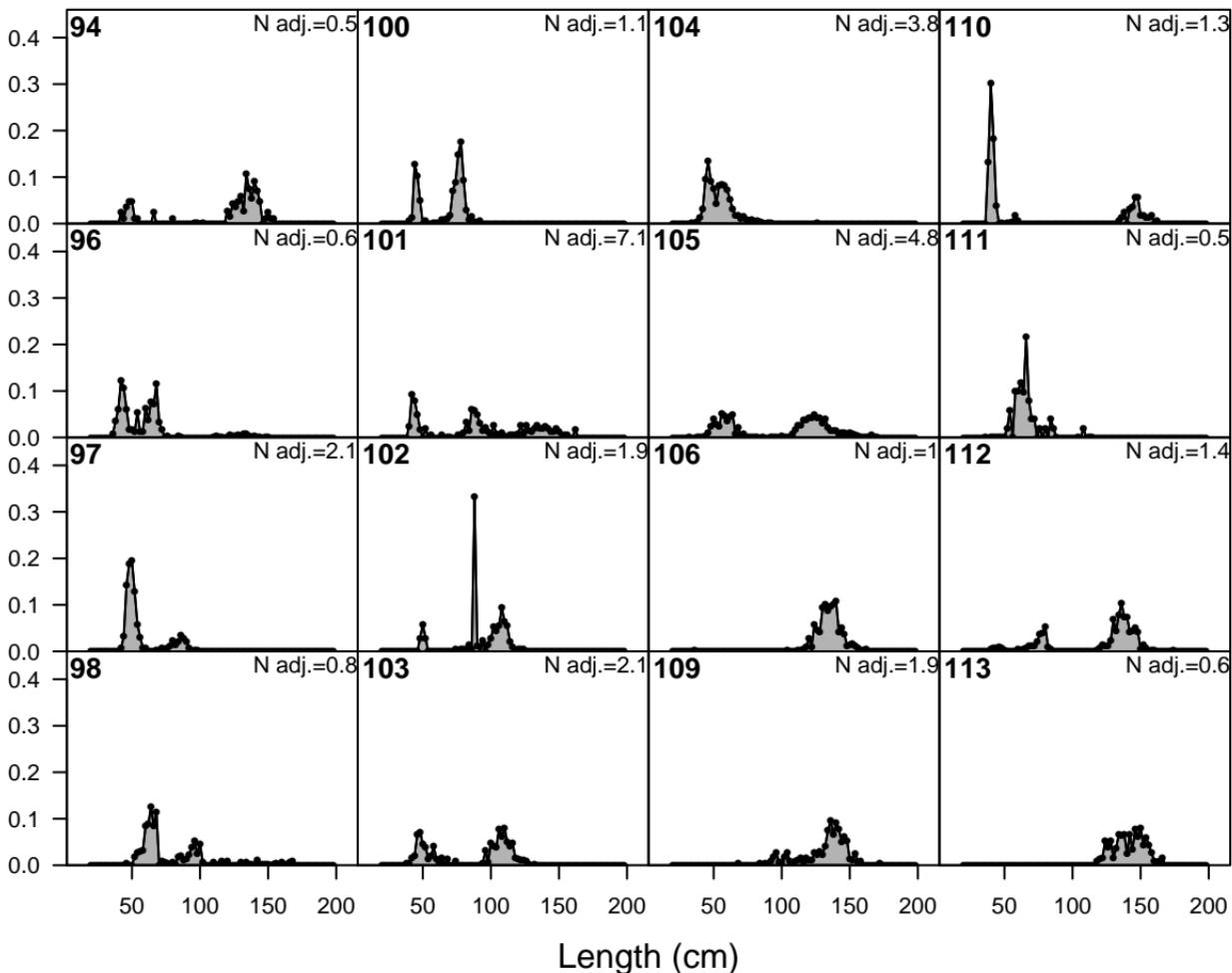


Proportion

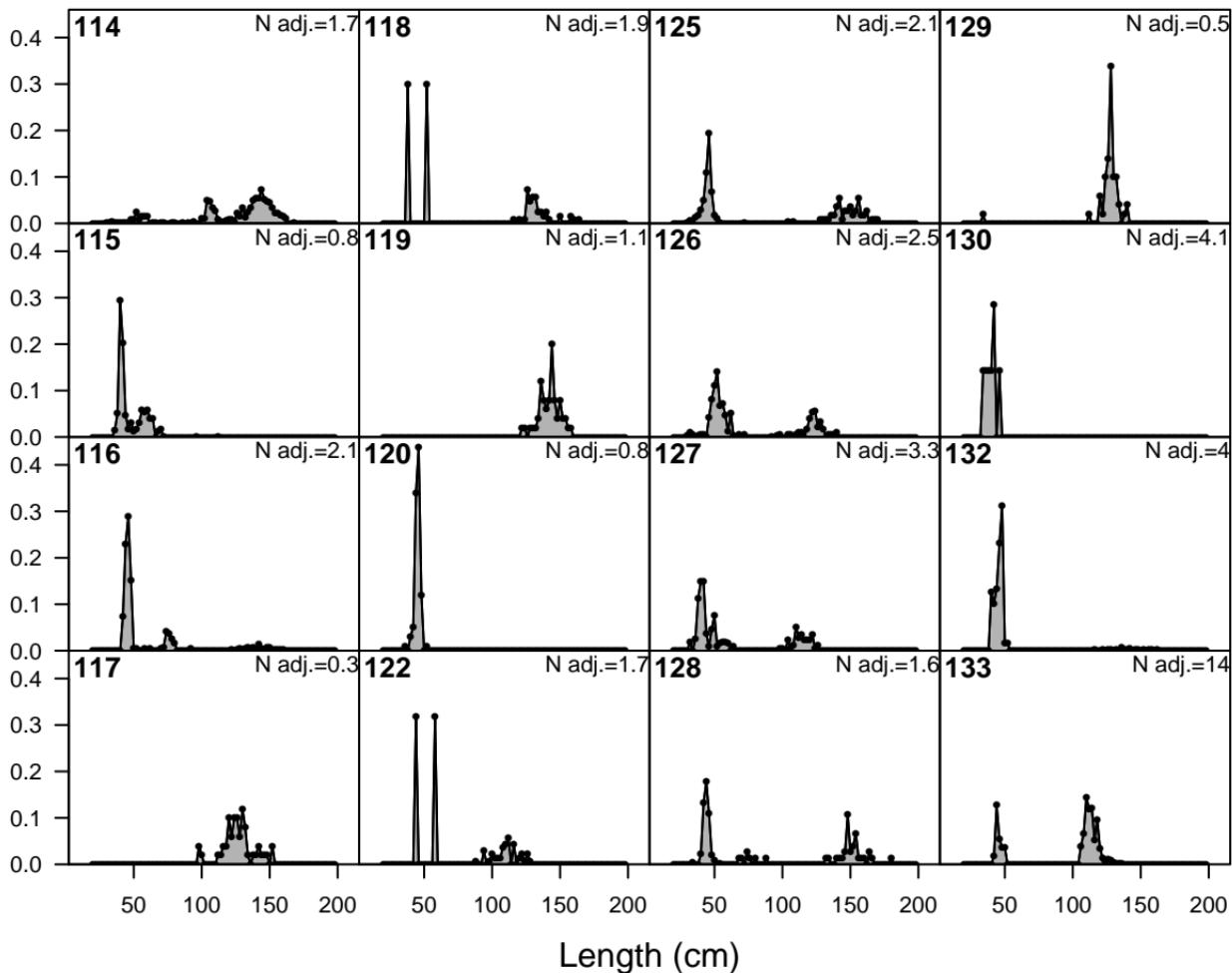




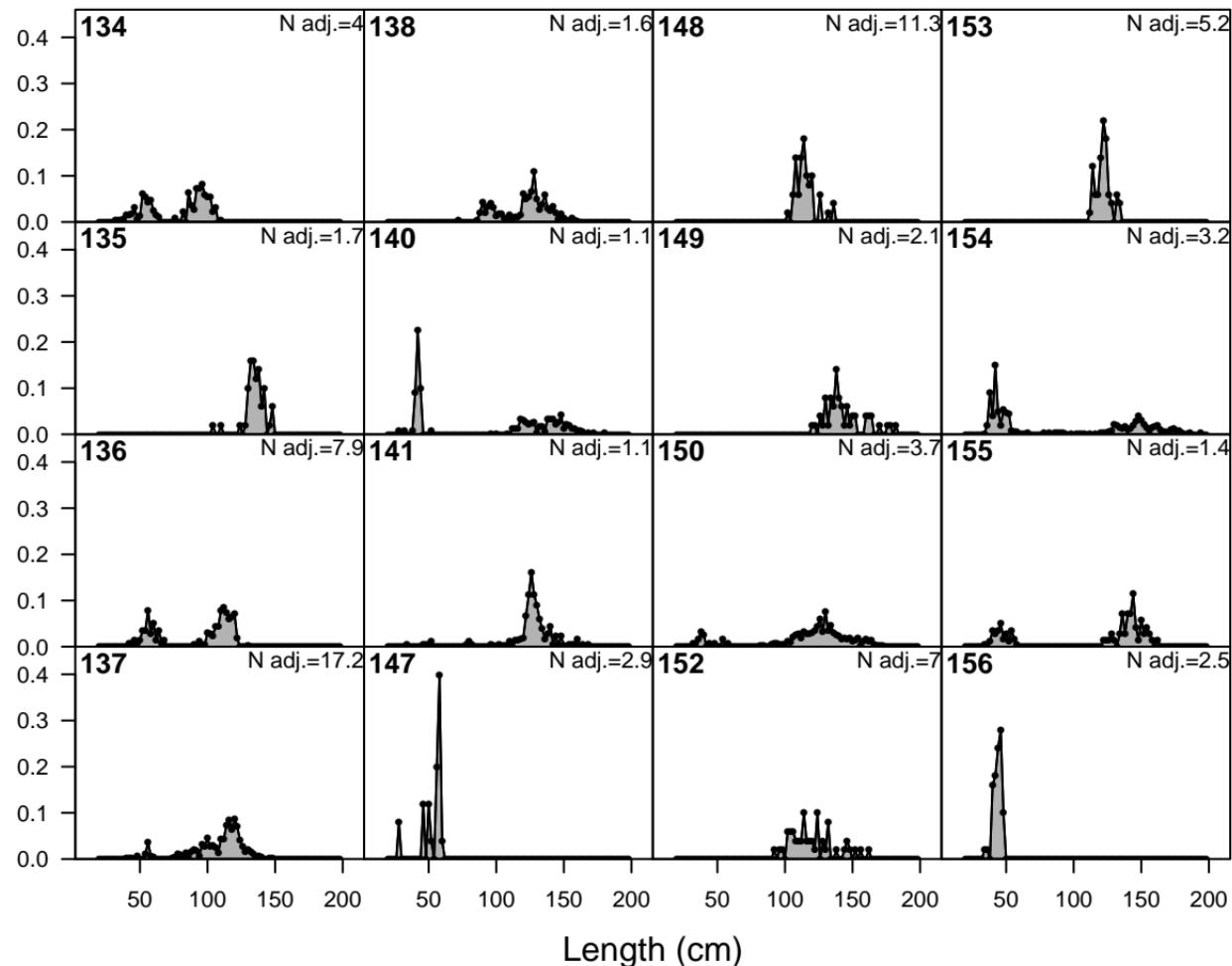
Proportion



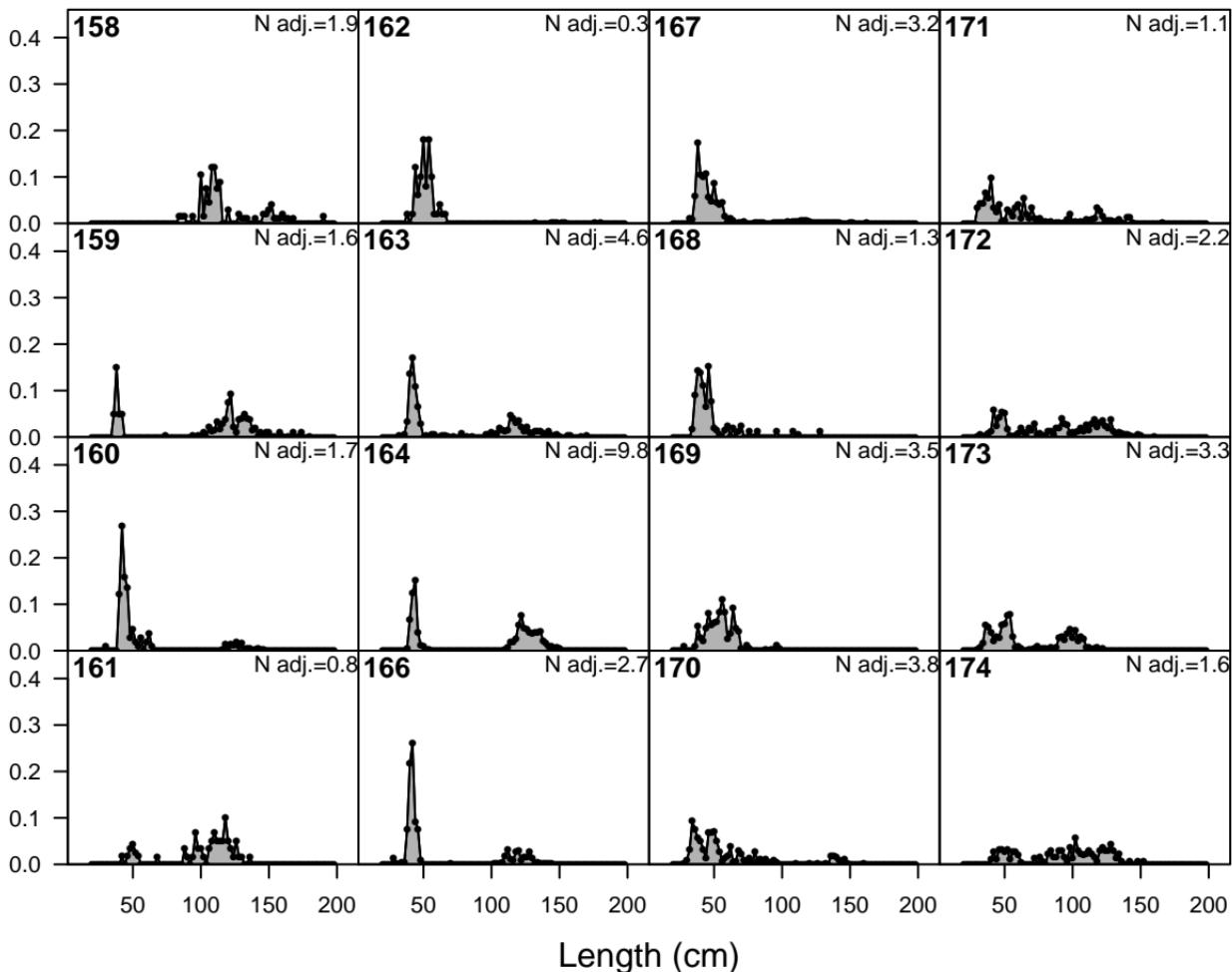
Proportion

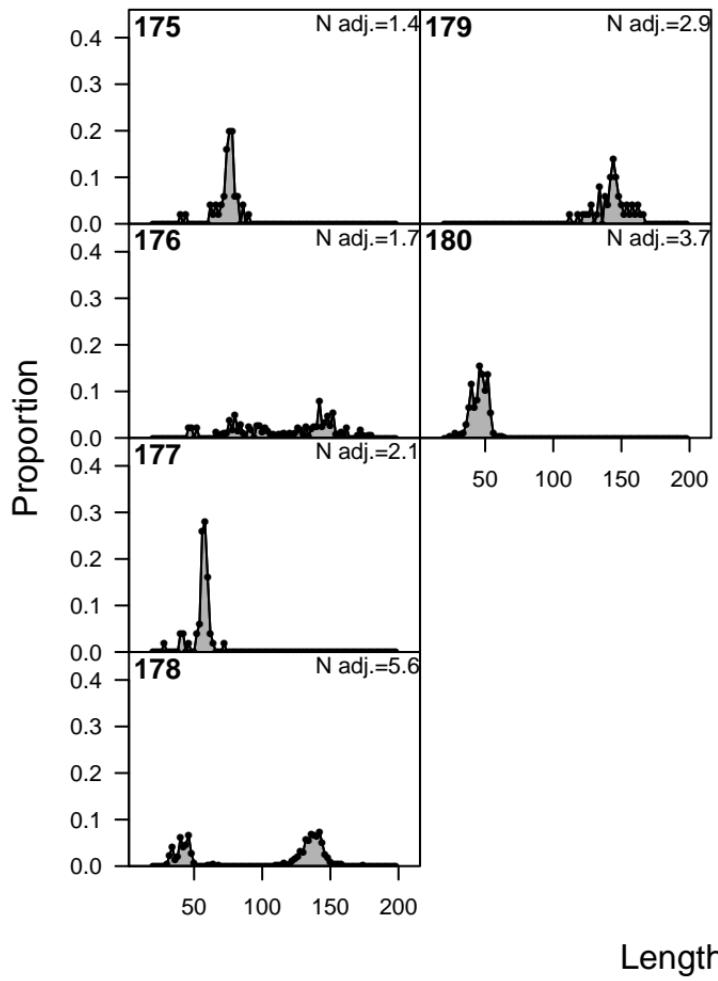


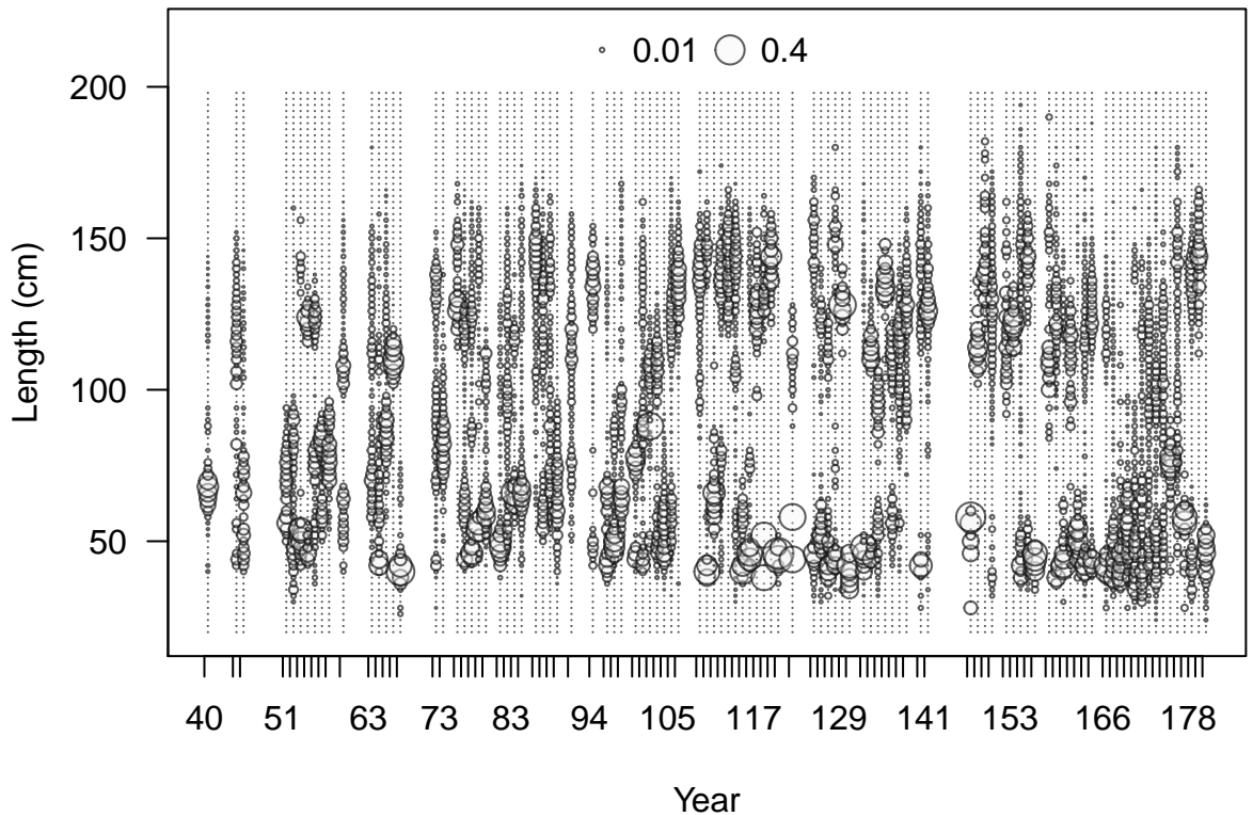
Proportion



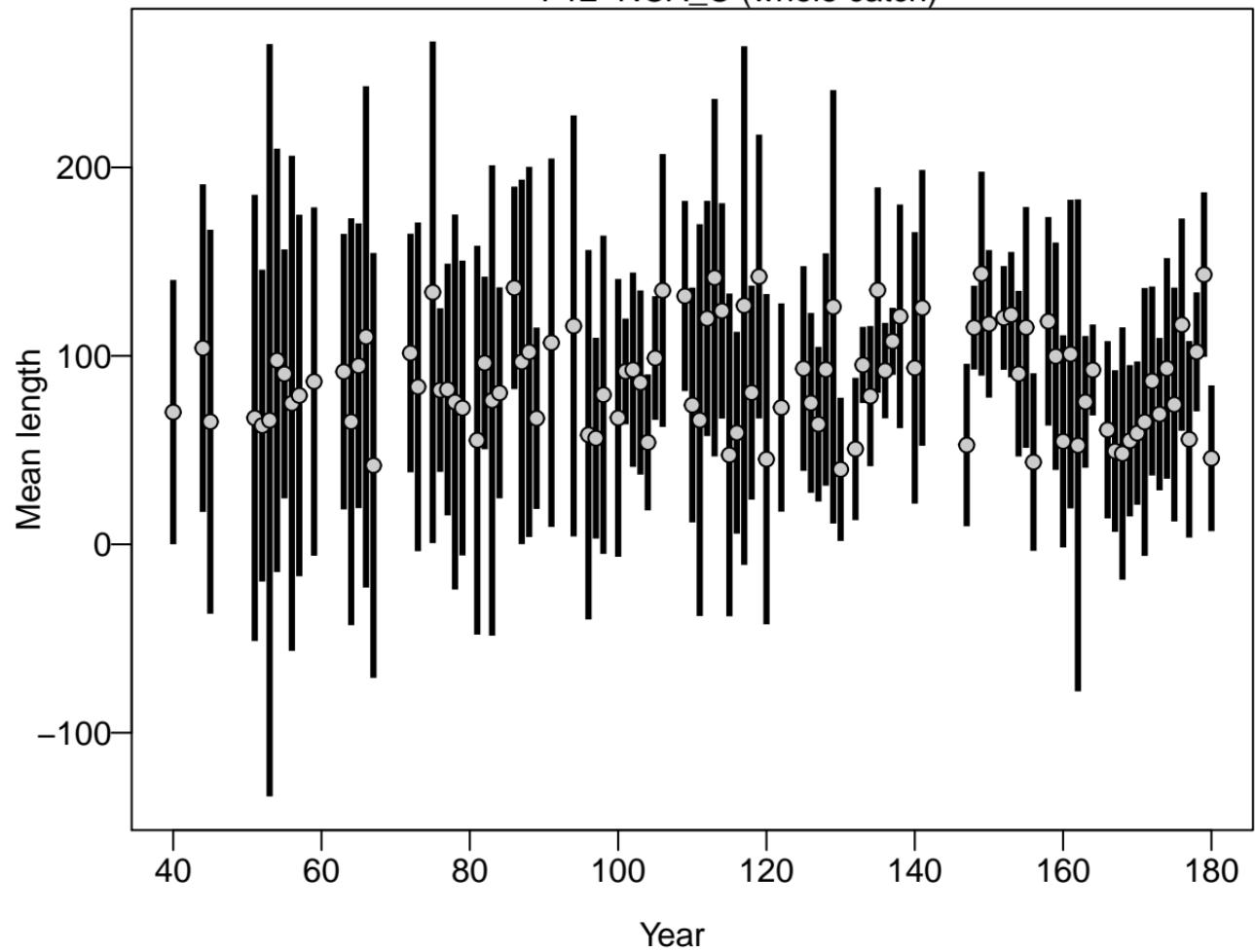
Proportion



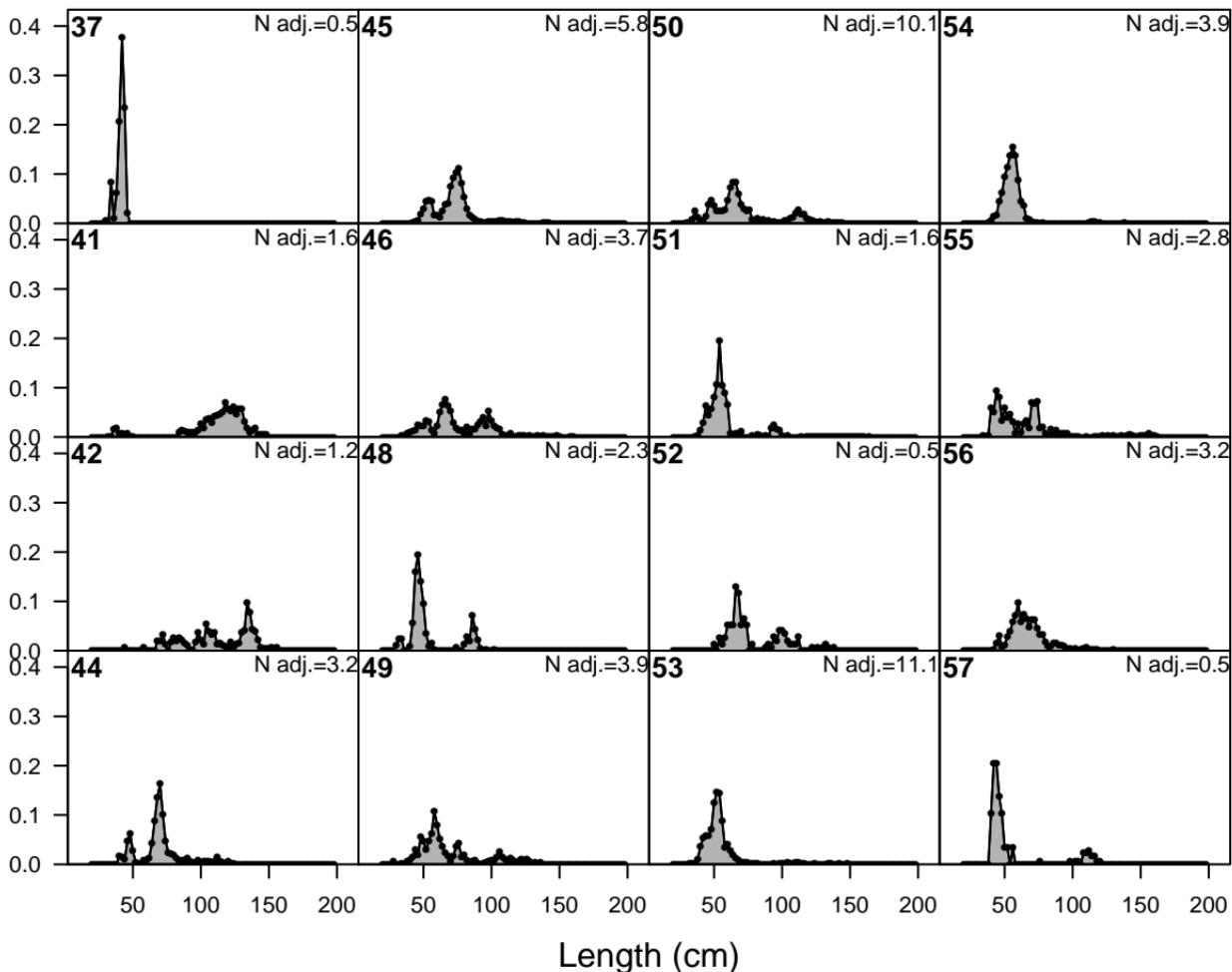




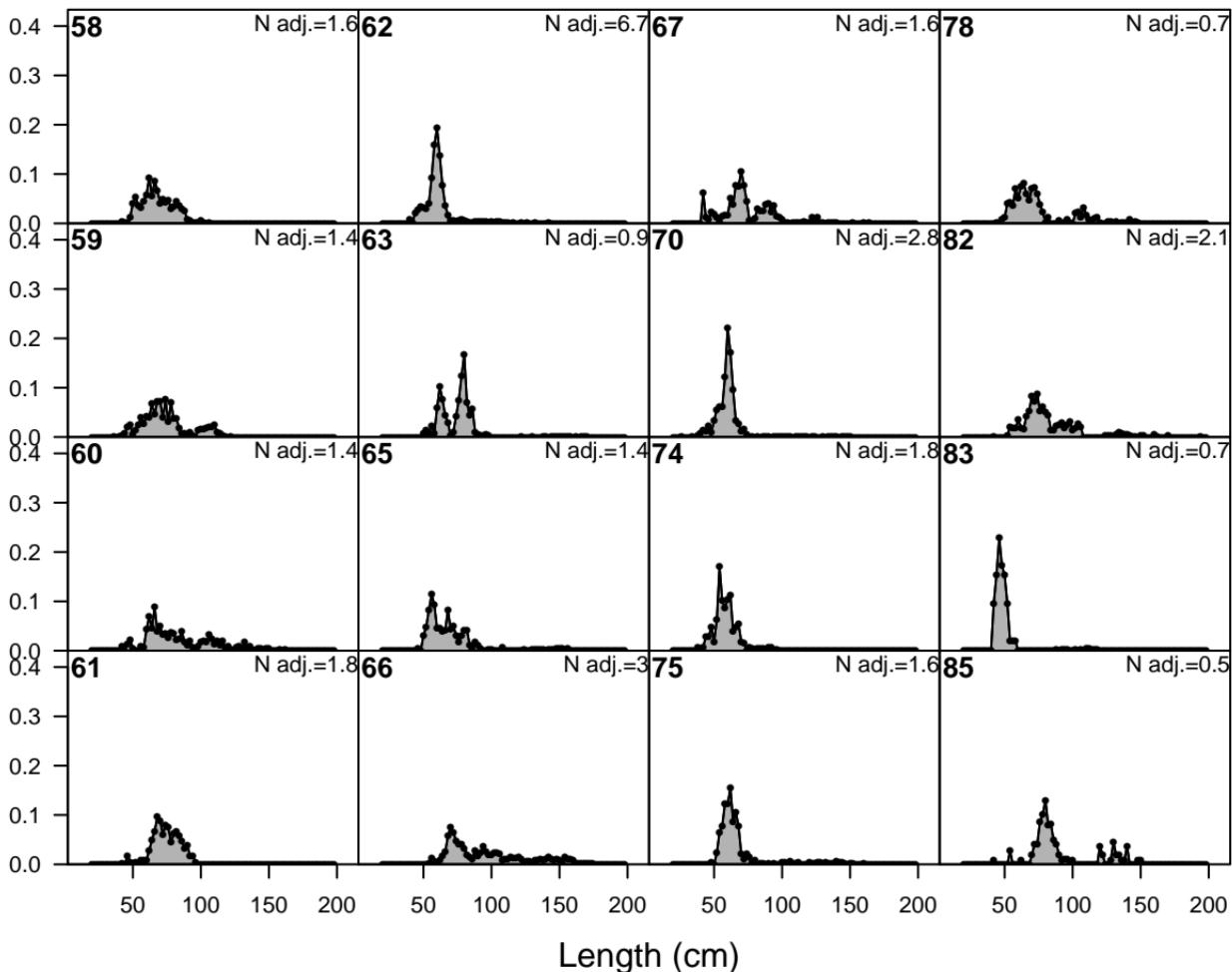
F12-NOA_C (whole catch)



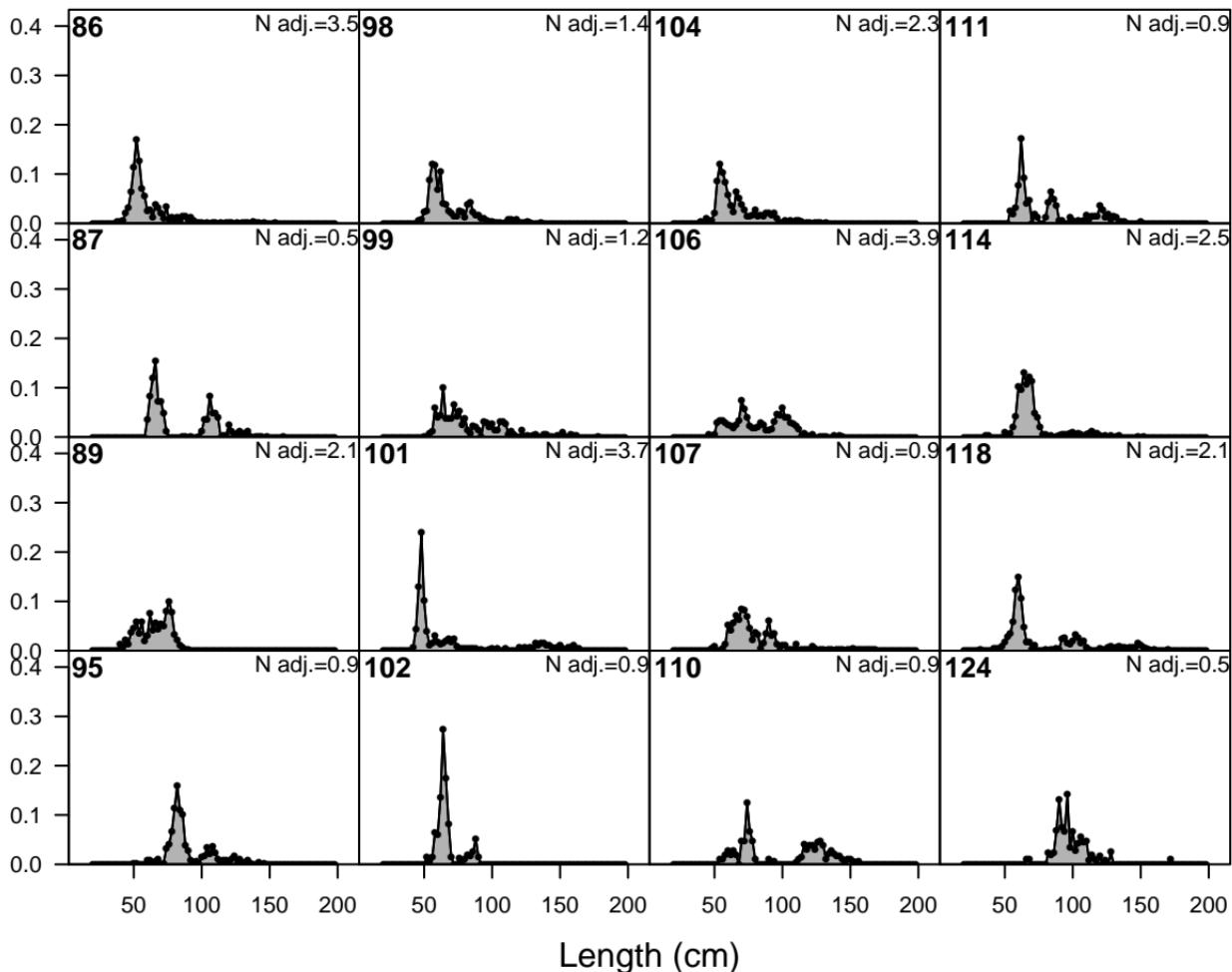
Proportion



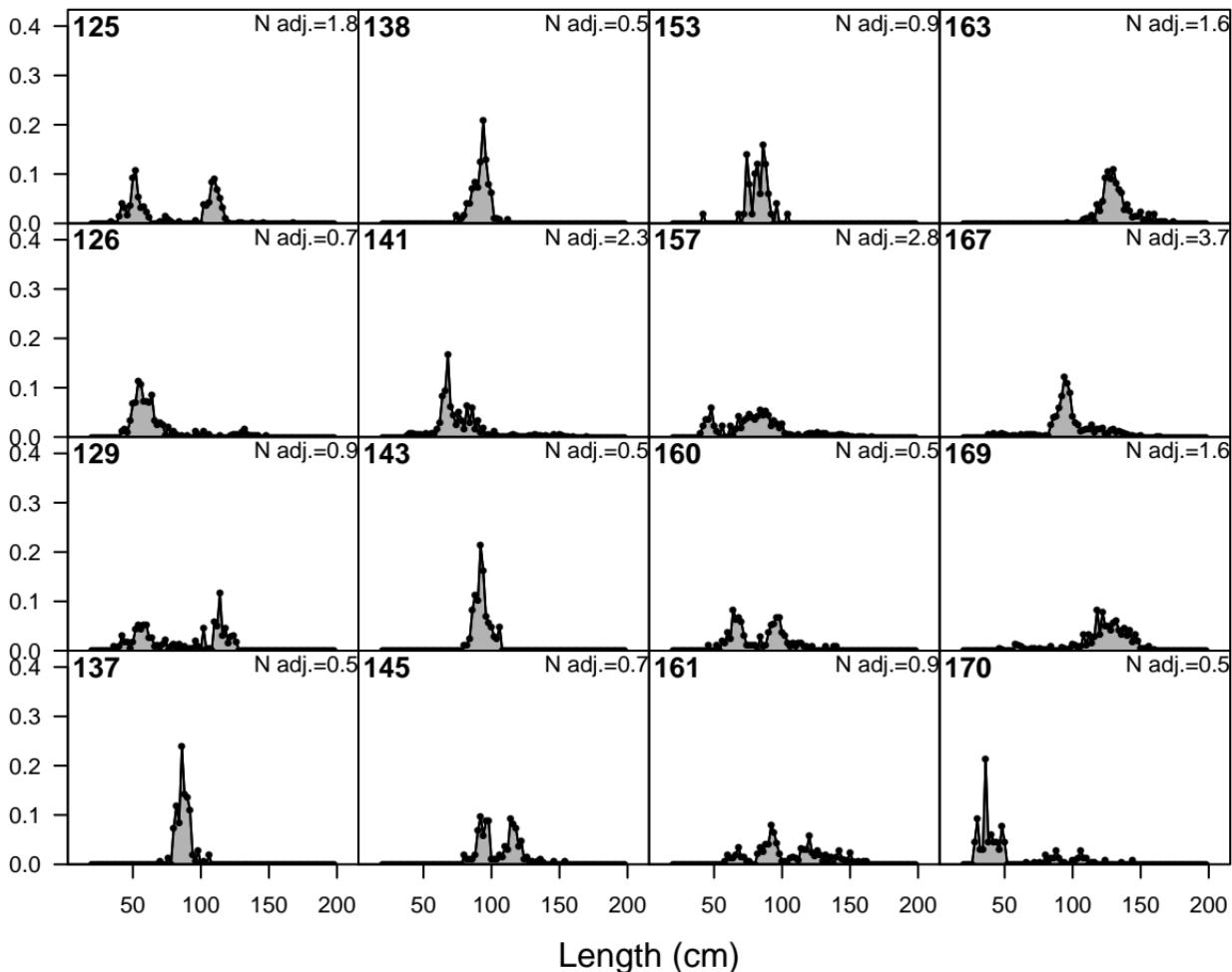
Proportion

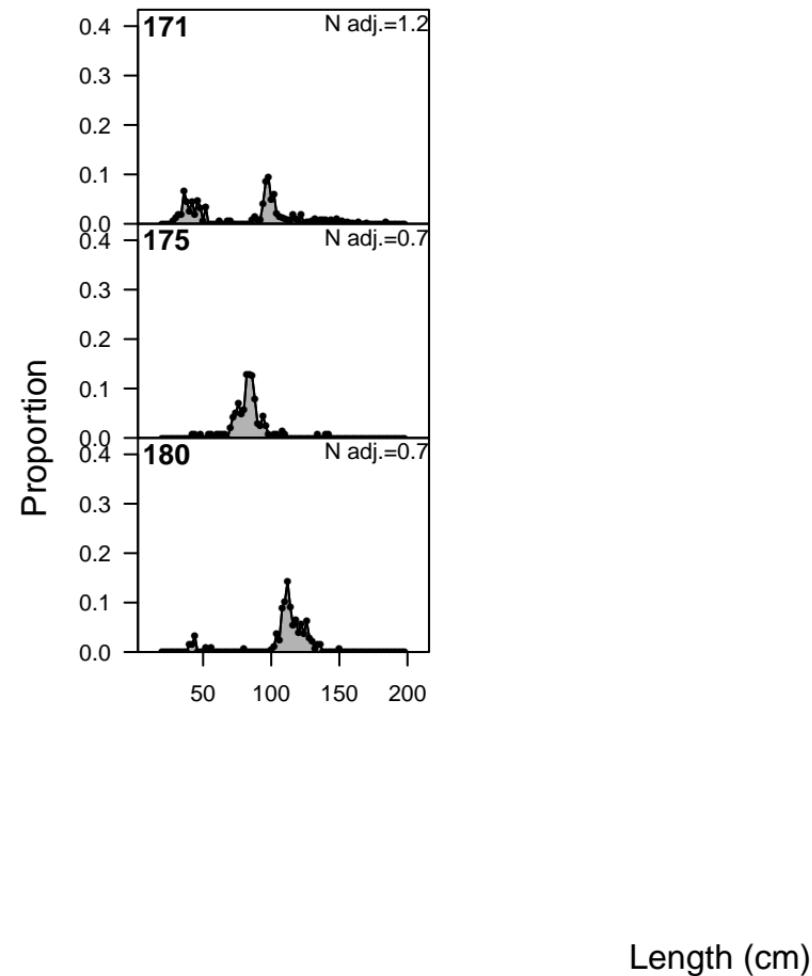


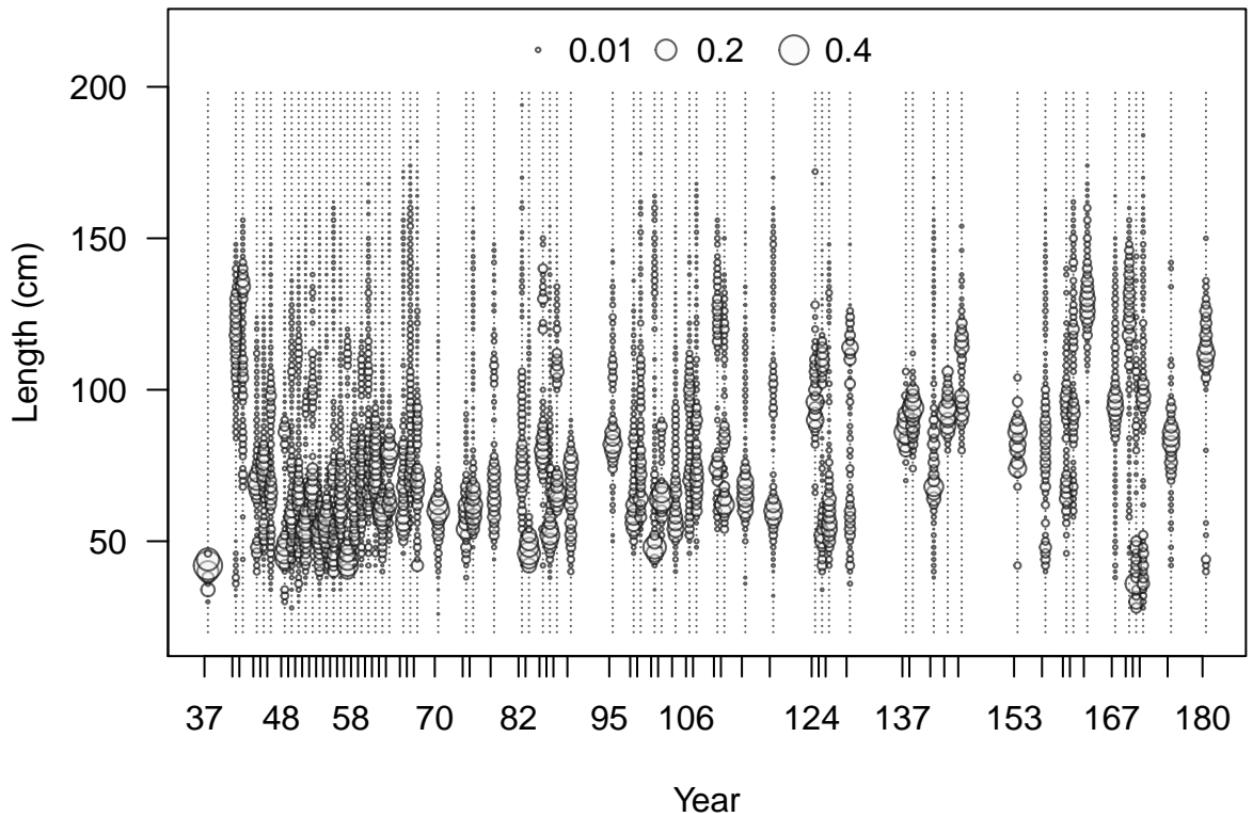
Proportion



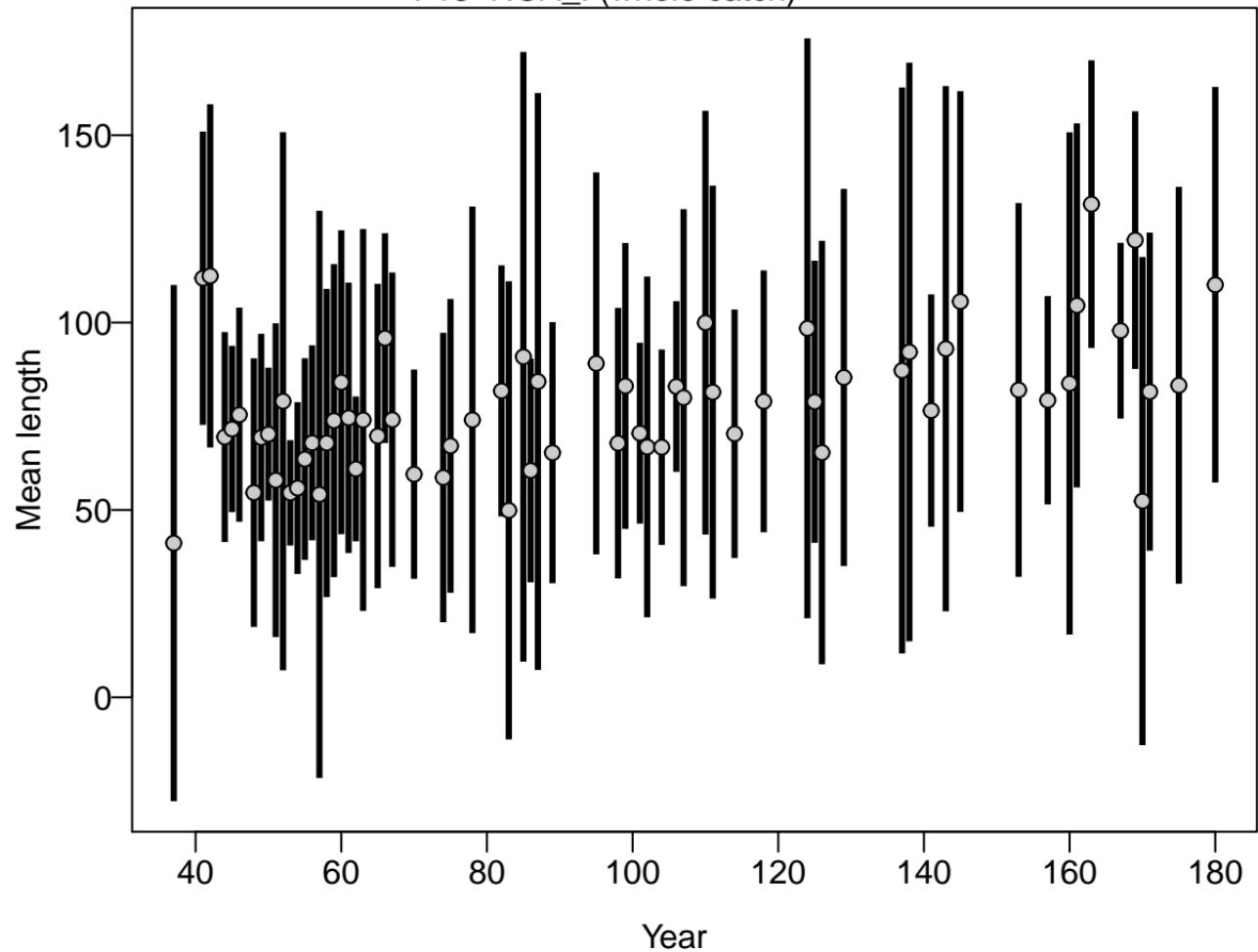
Proportion



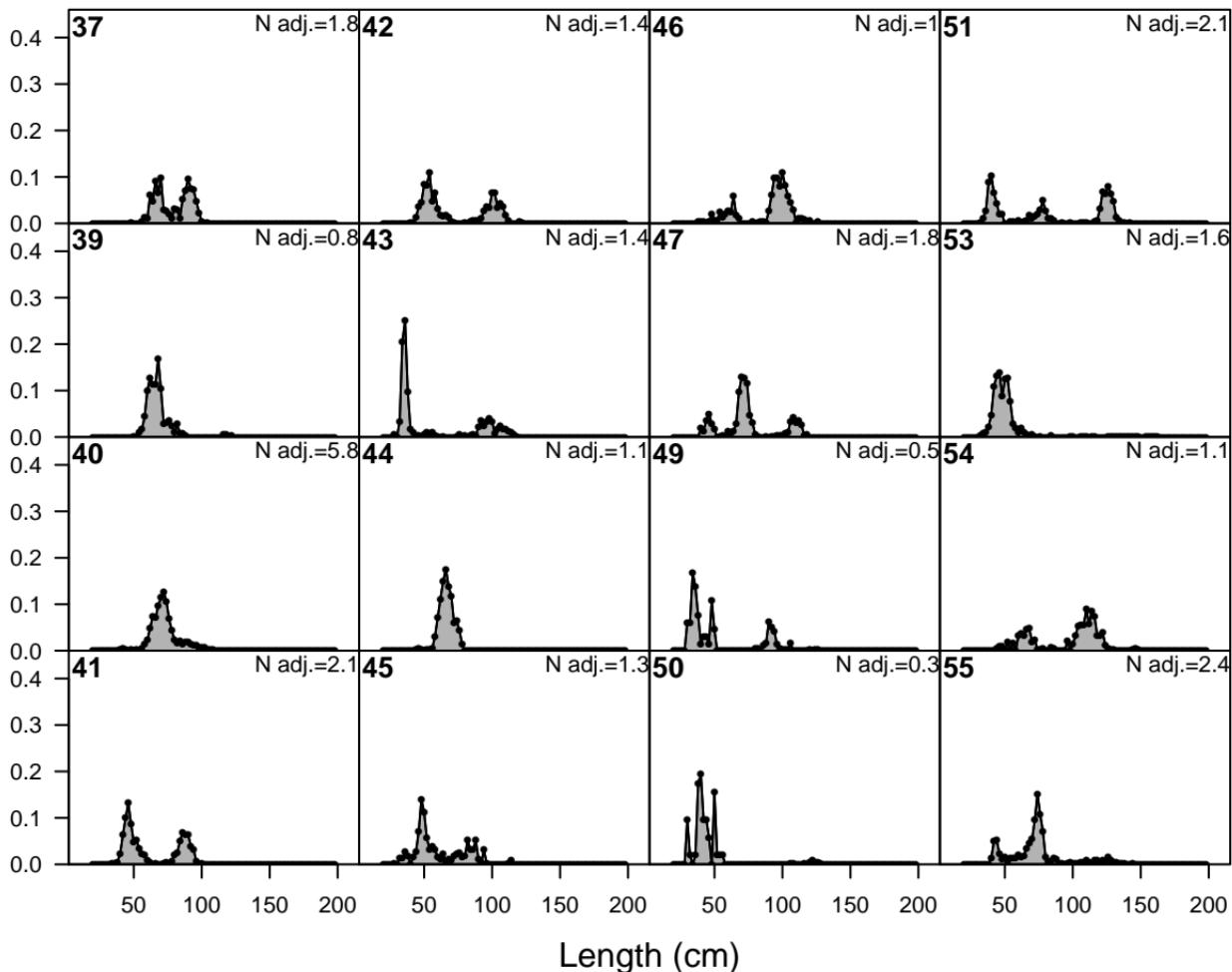




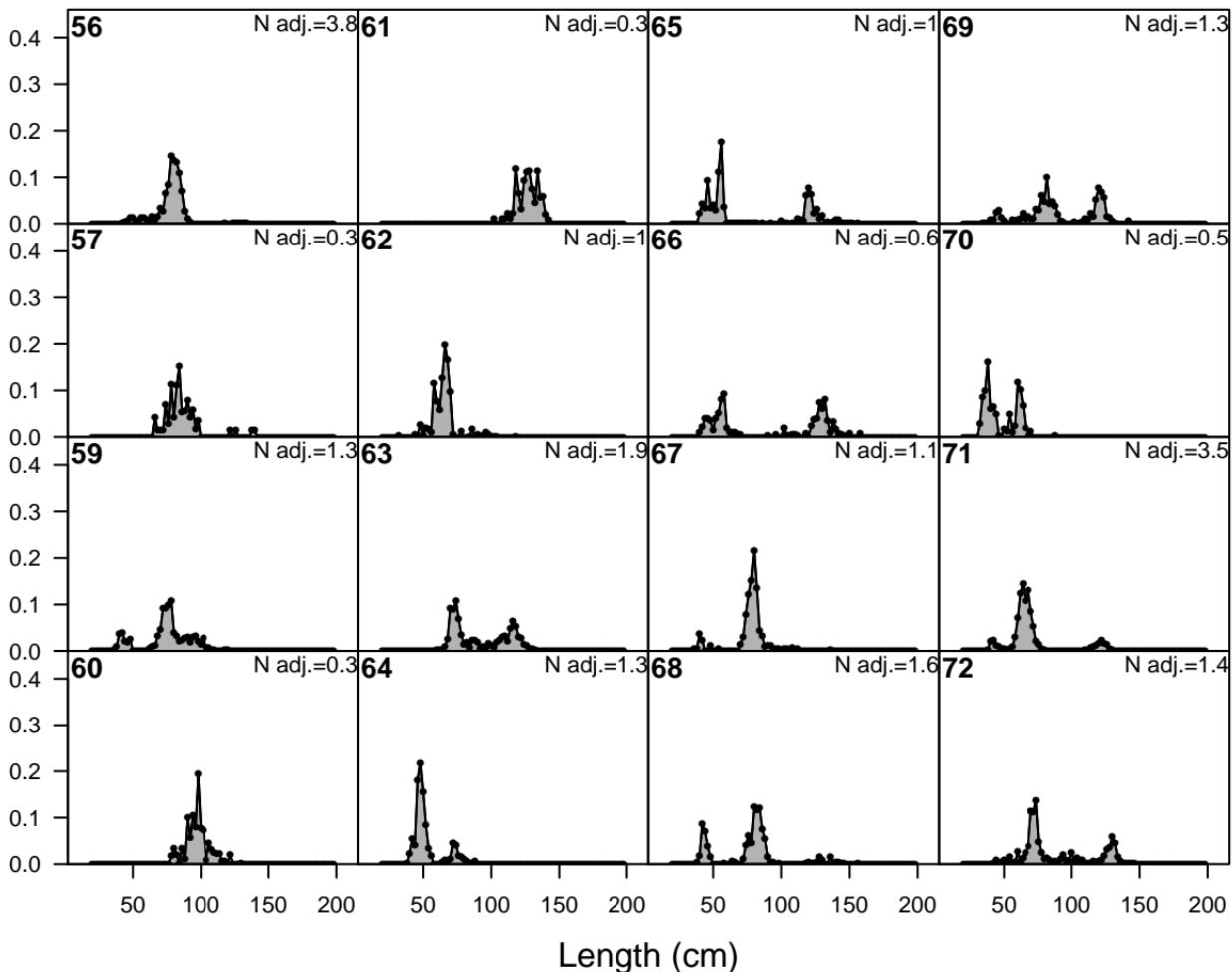
F13–NOA_I (whole catch)



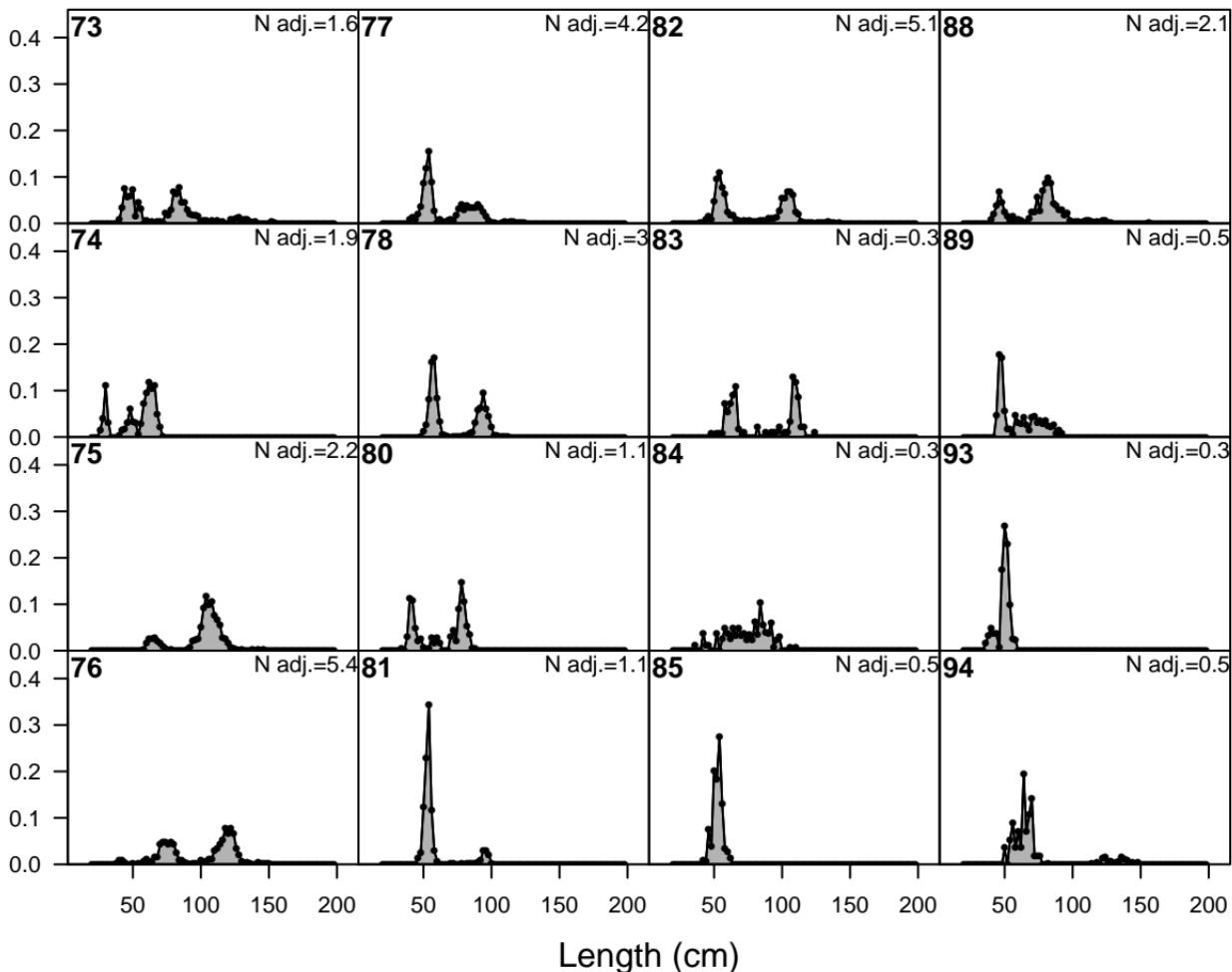
Proportion

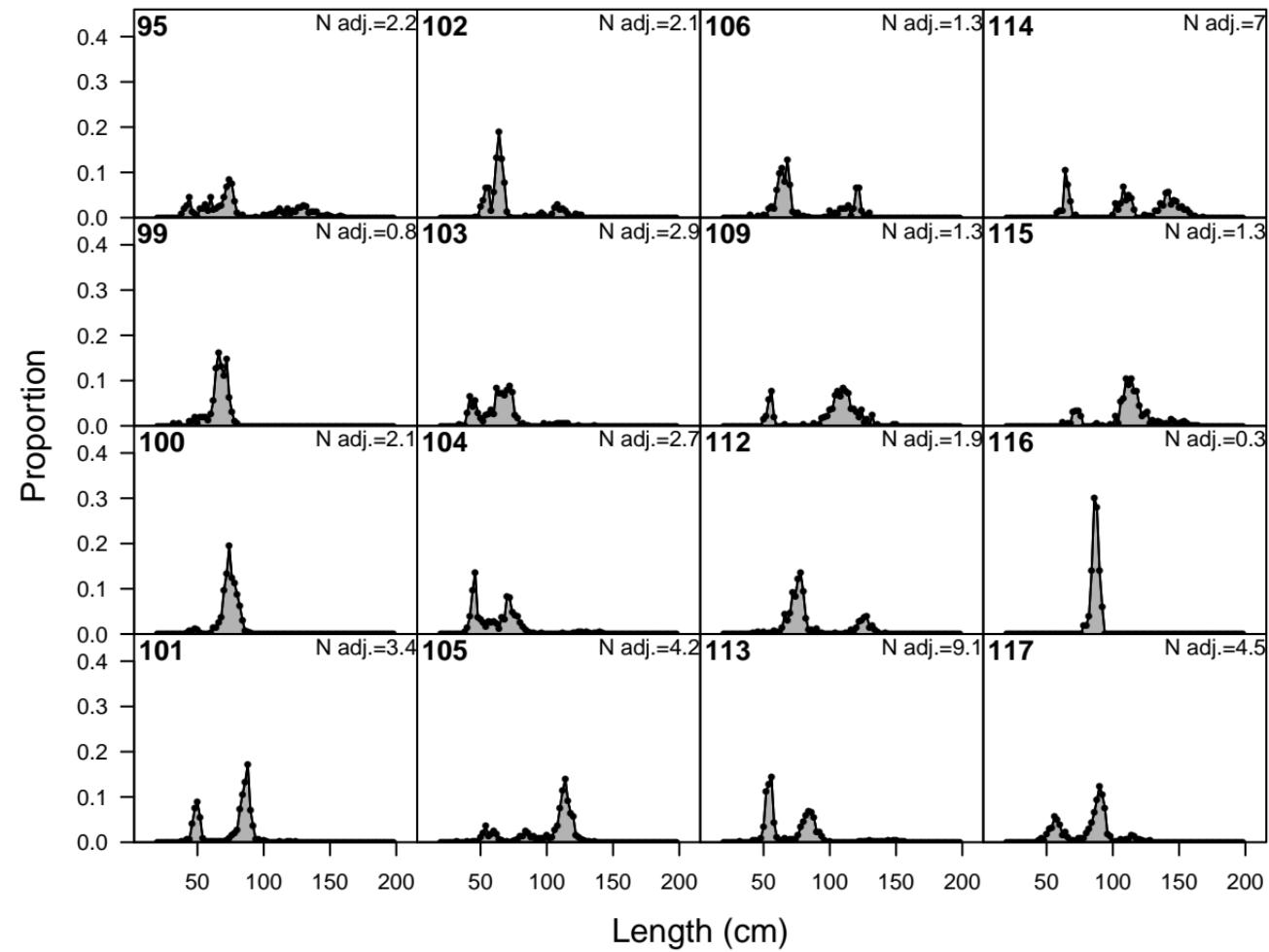


Proportion

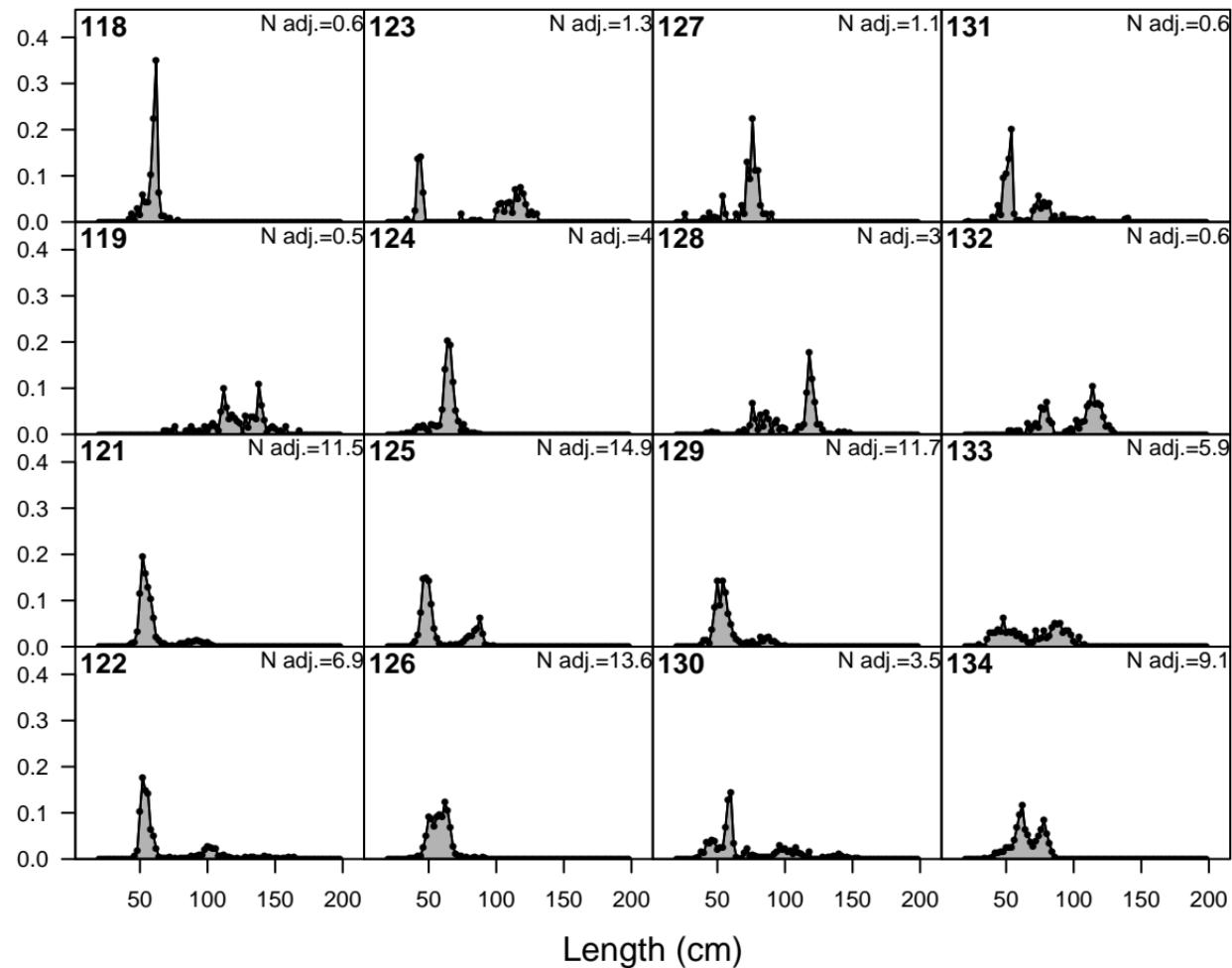


Proportion

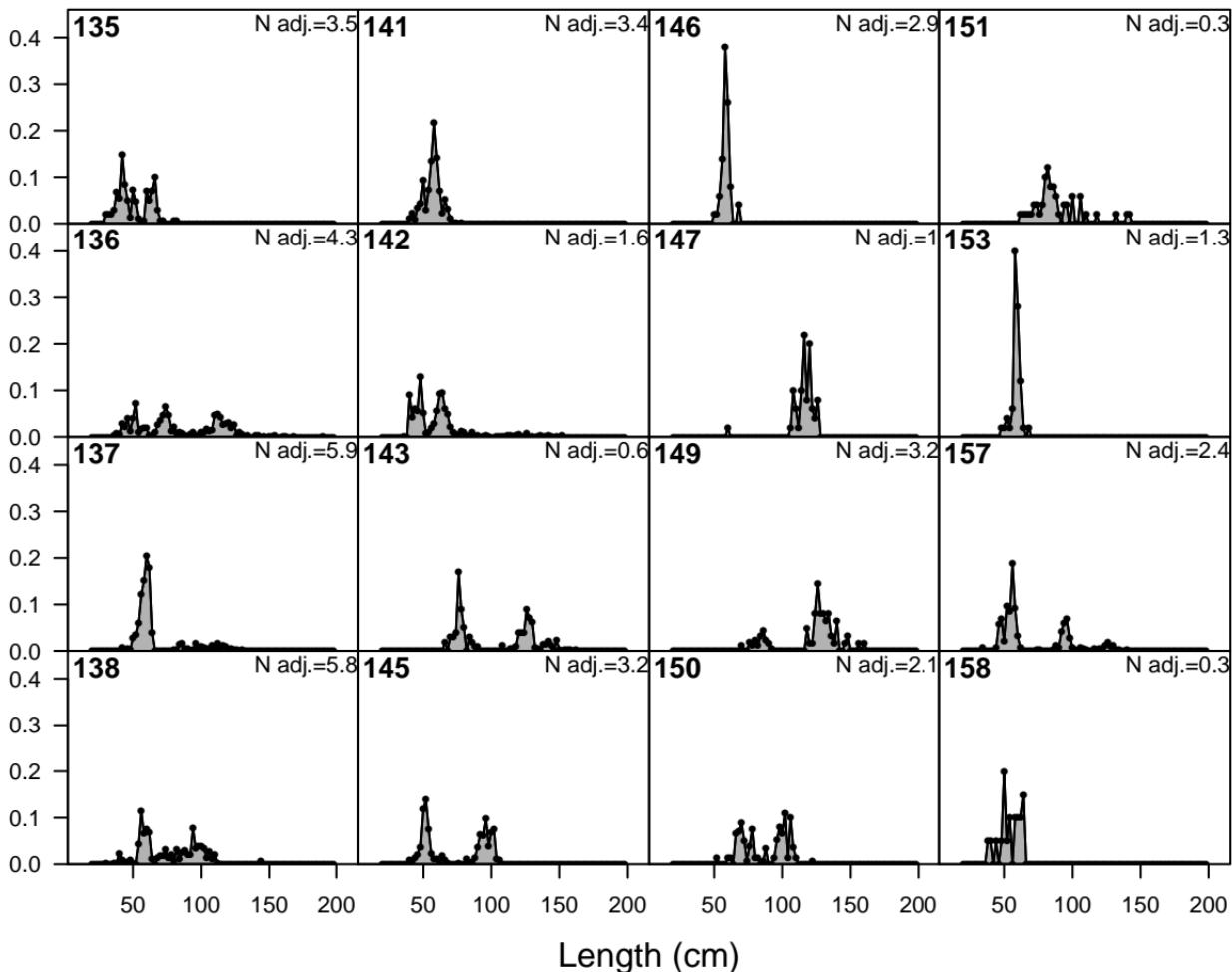




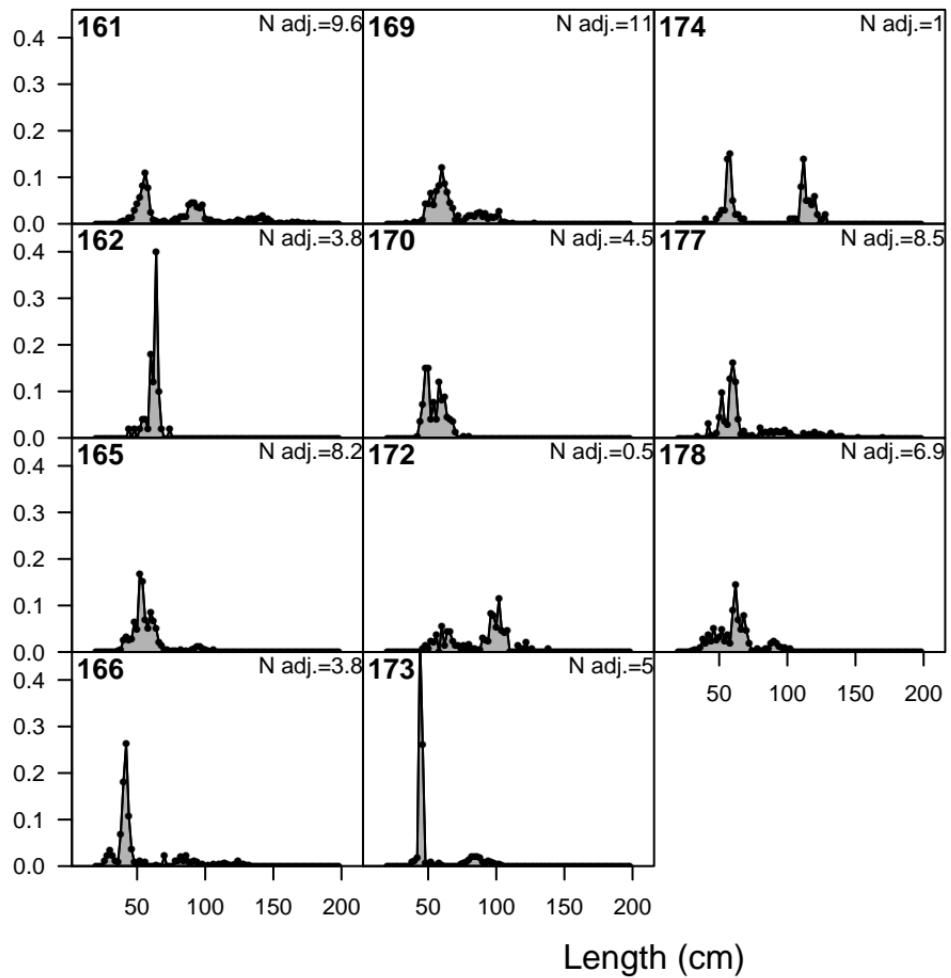
Proportion

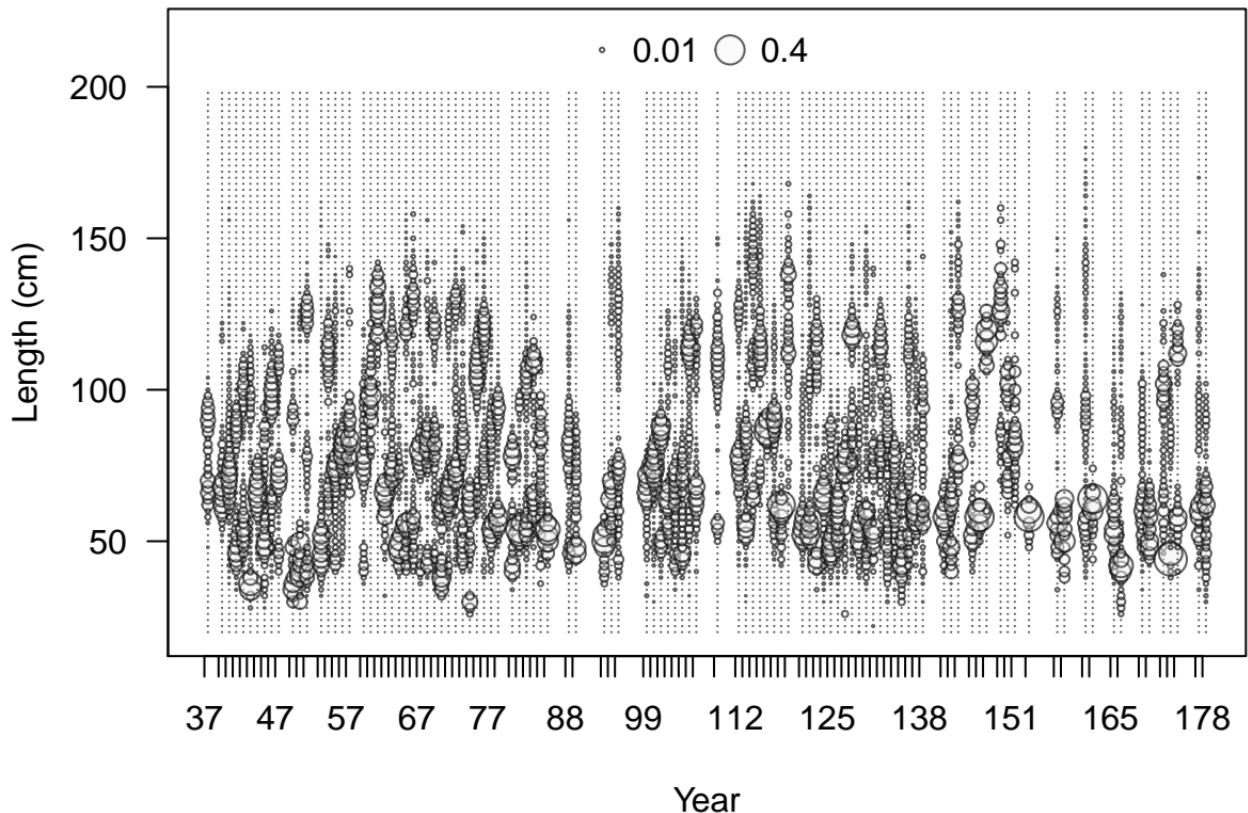


Proportion

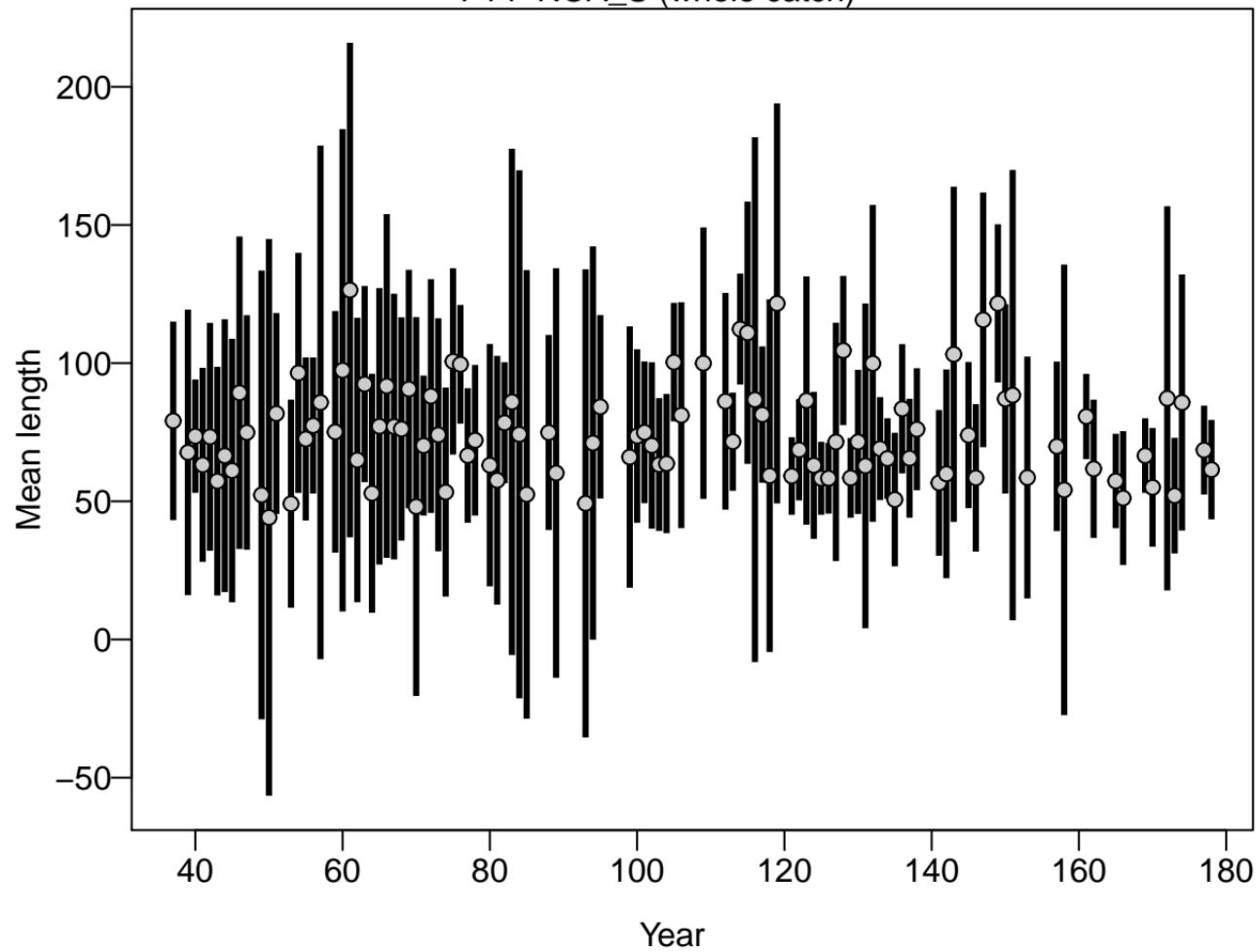


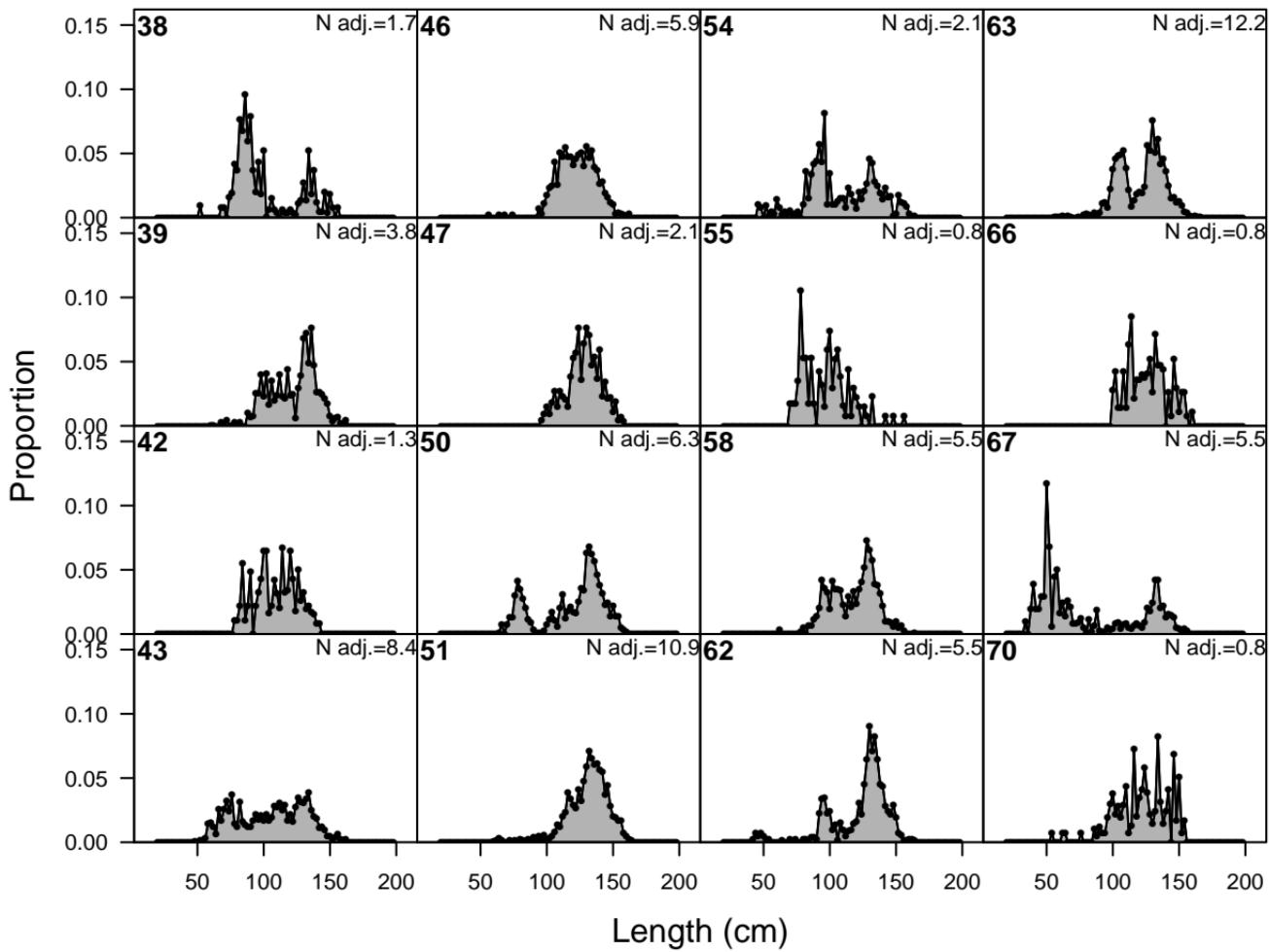
Proportion



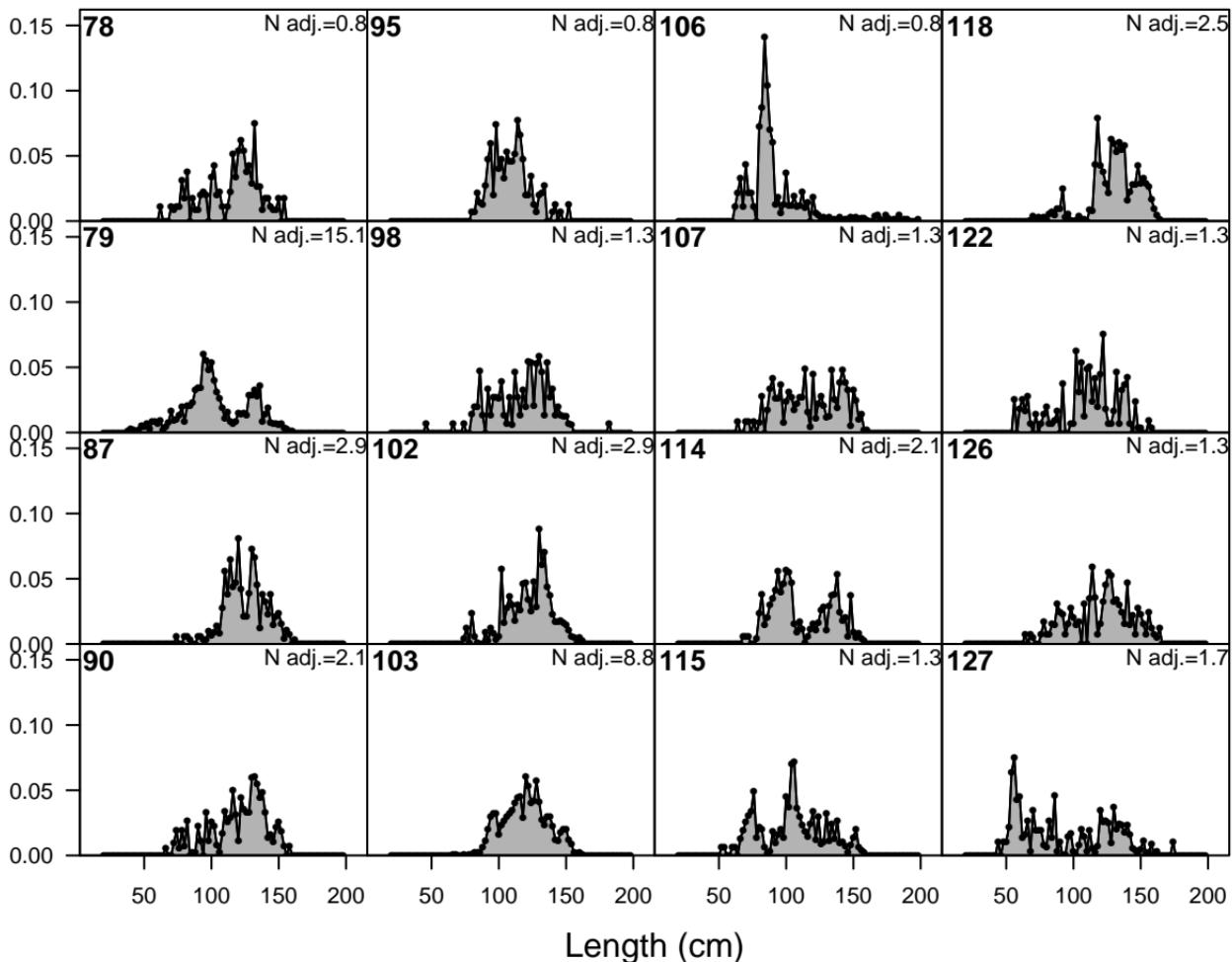


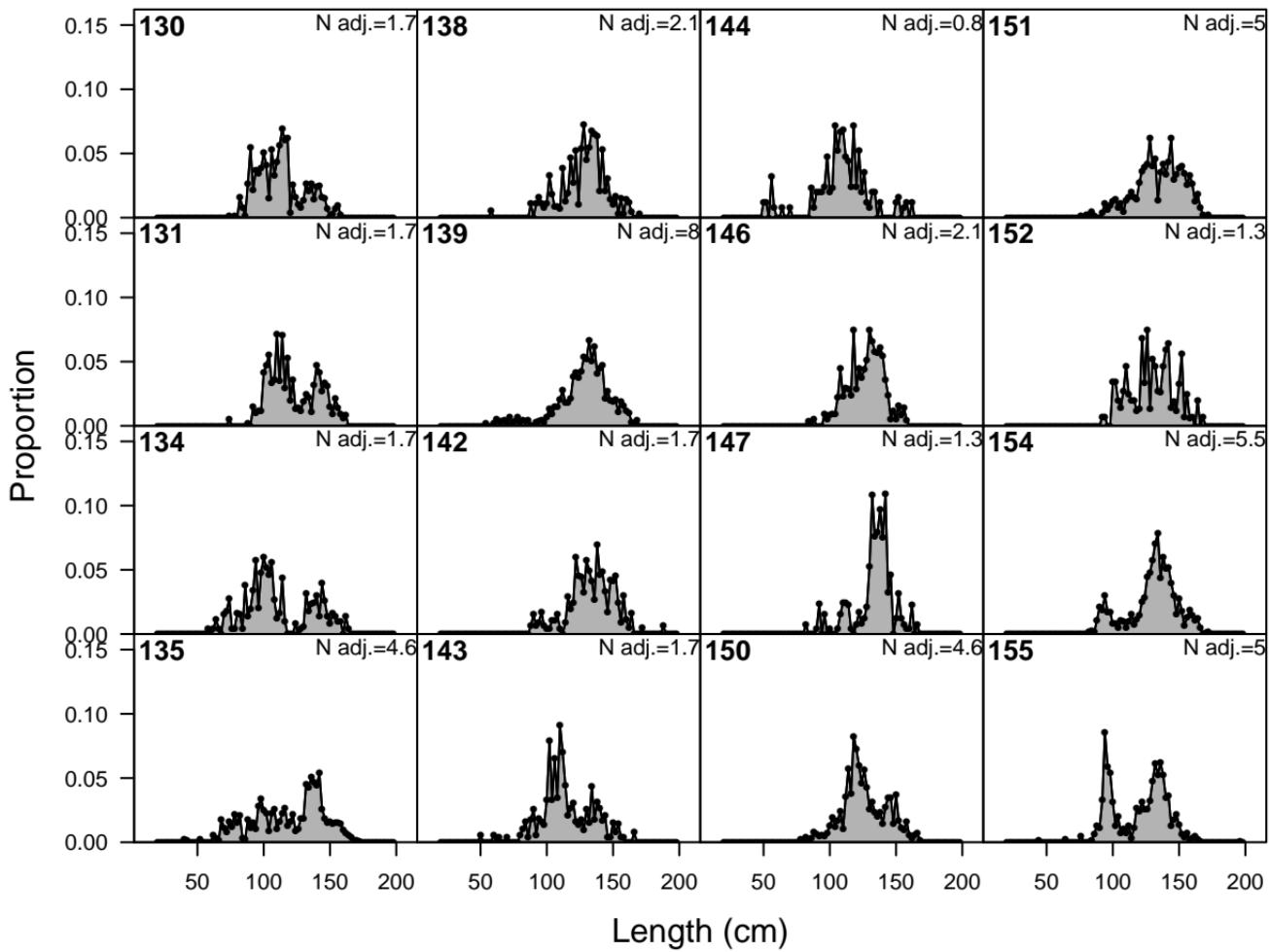
F14–NOA_S (whole catch)

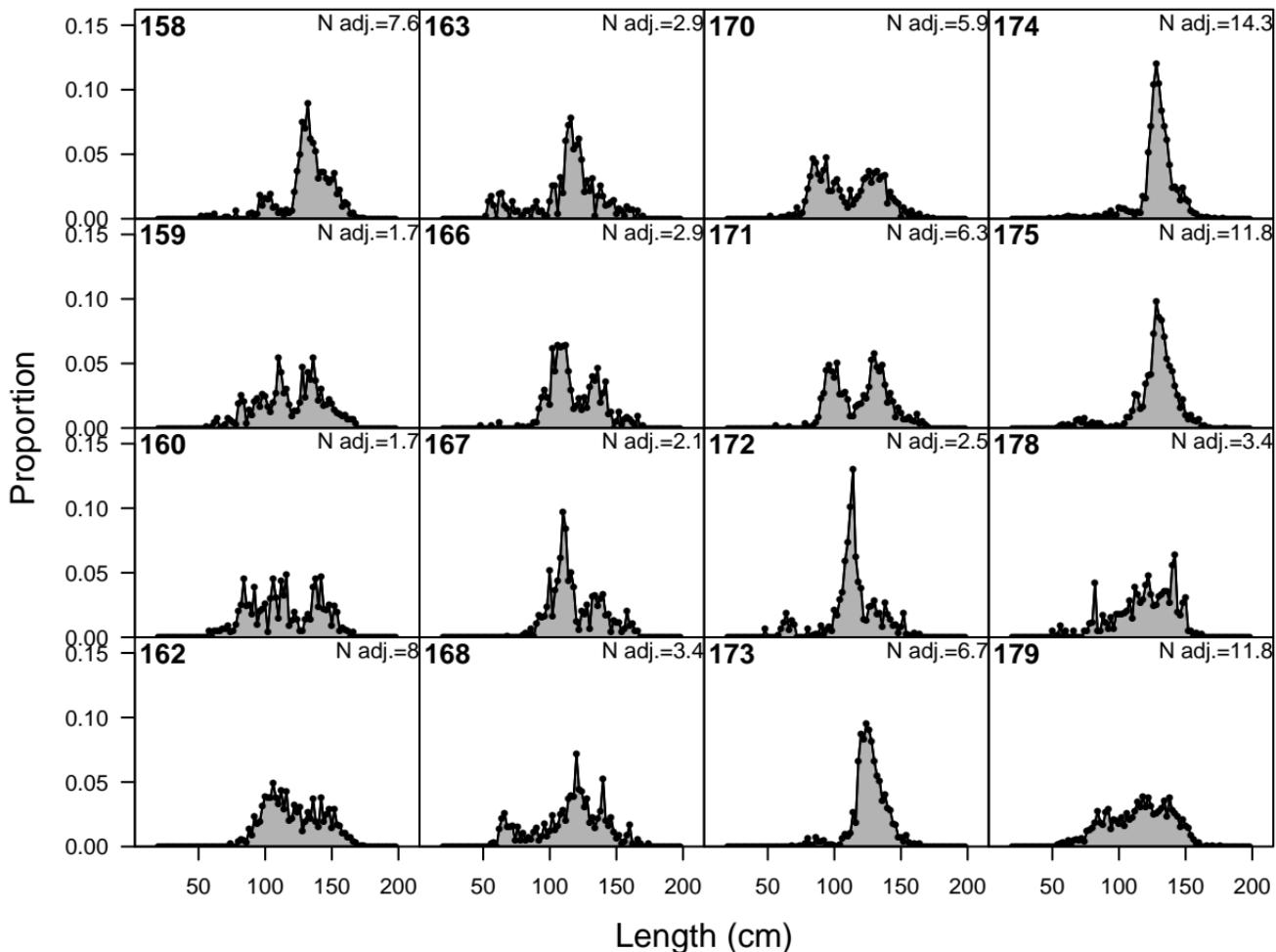




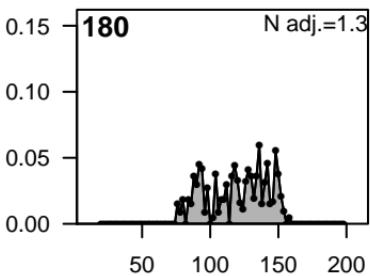
Proportion



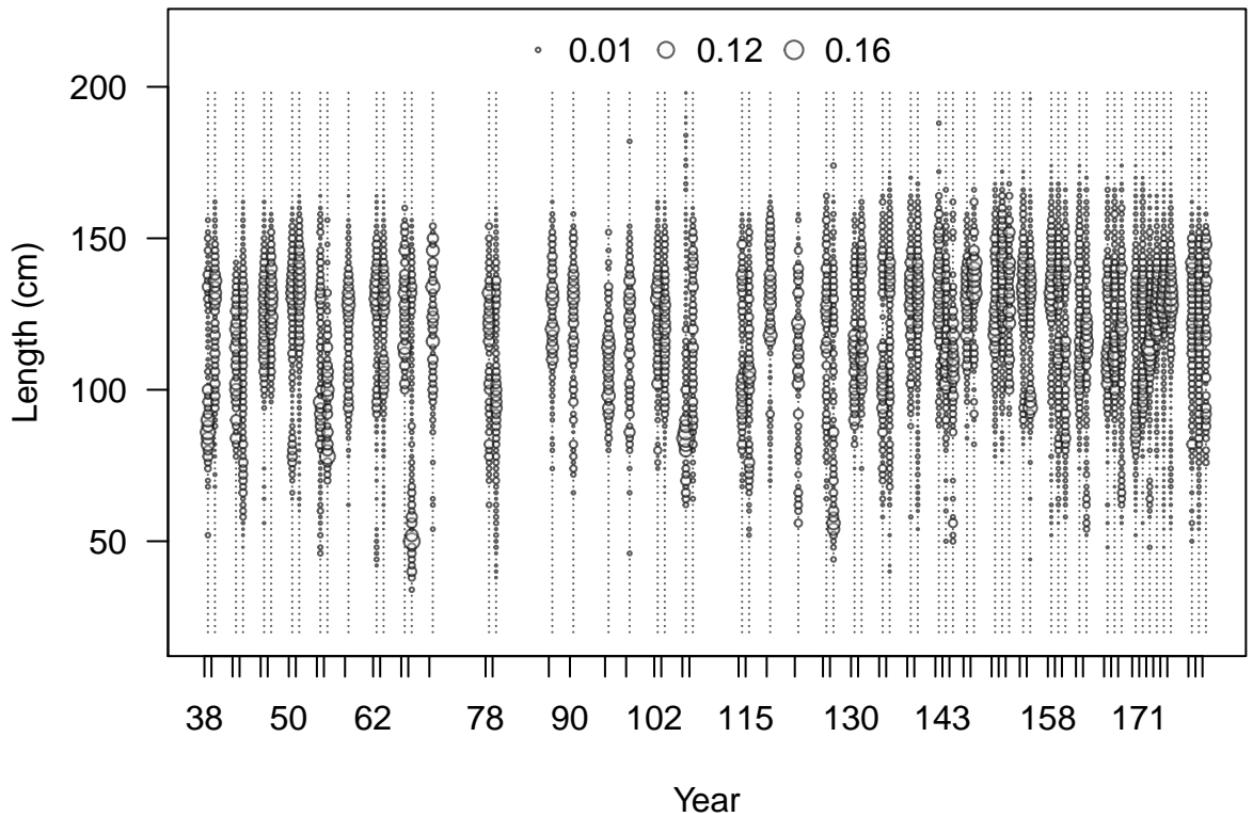




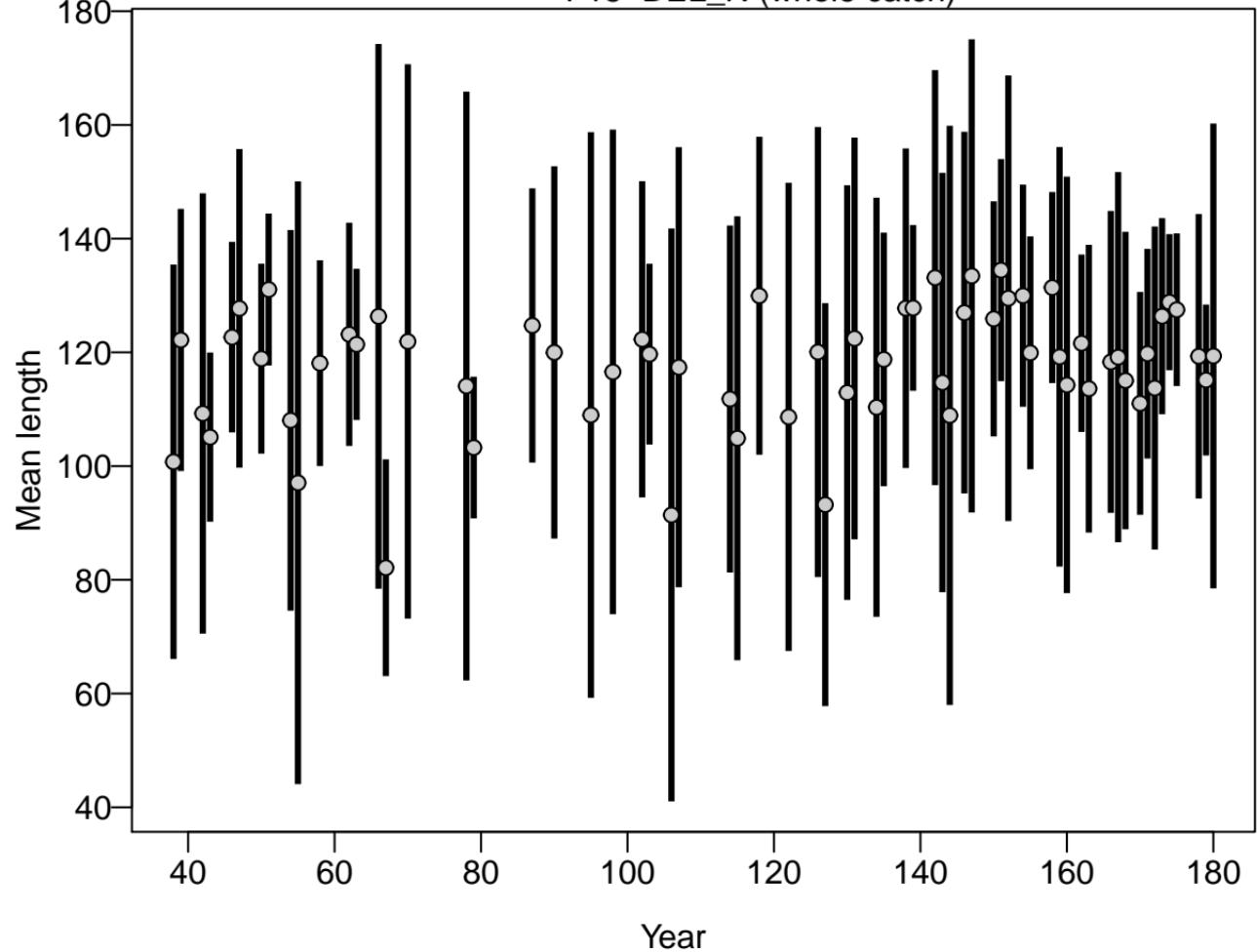
Proportion

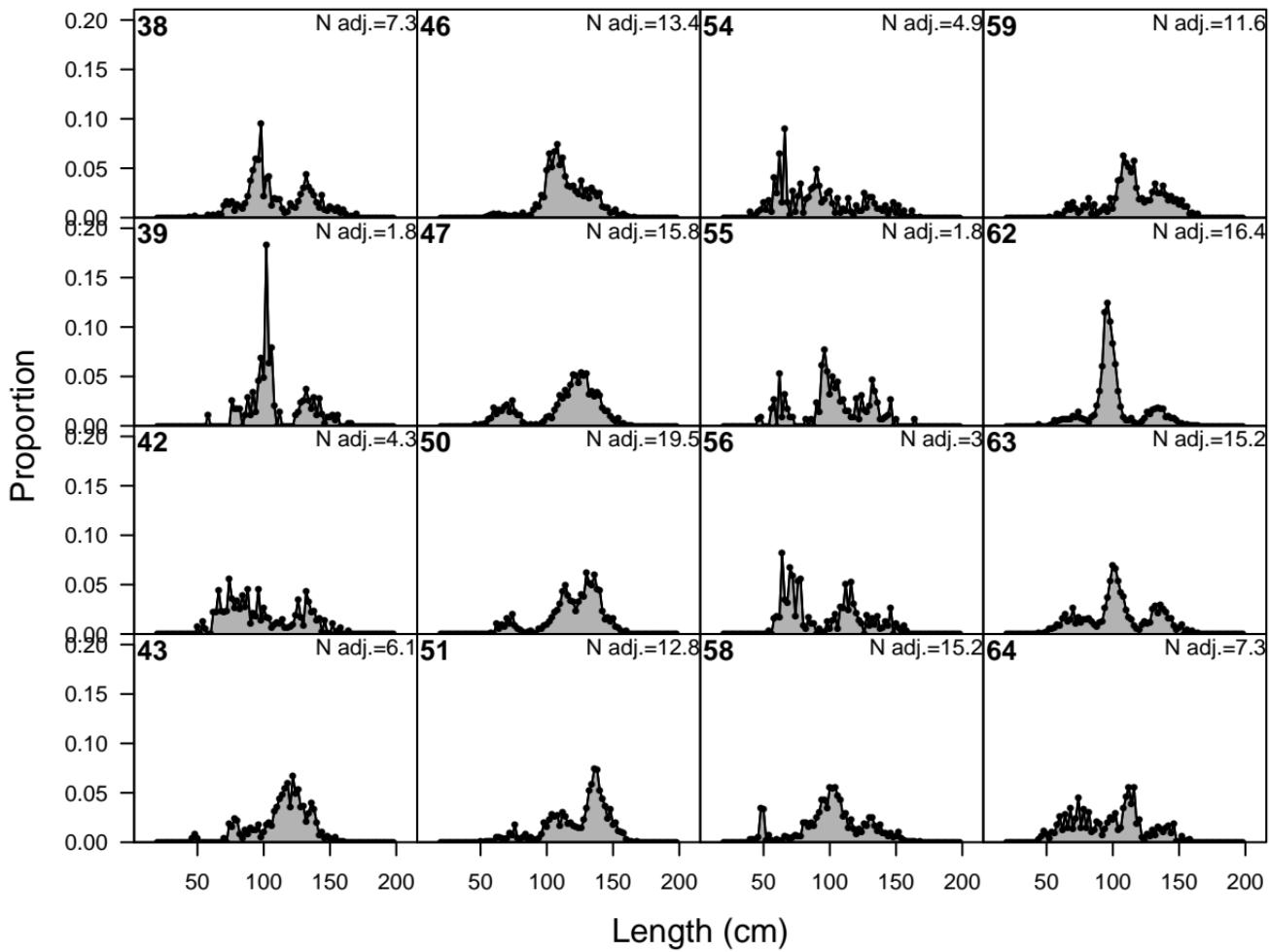


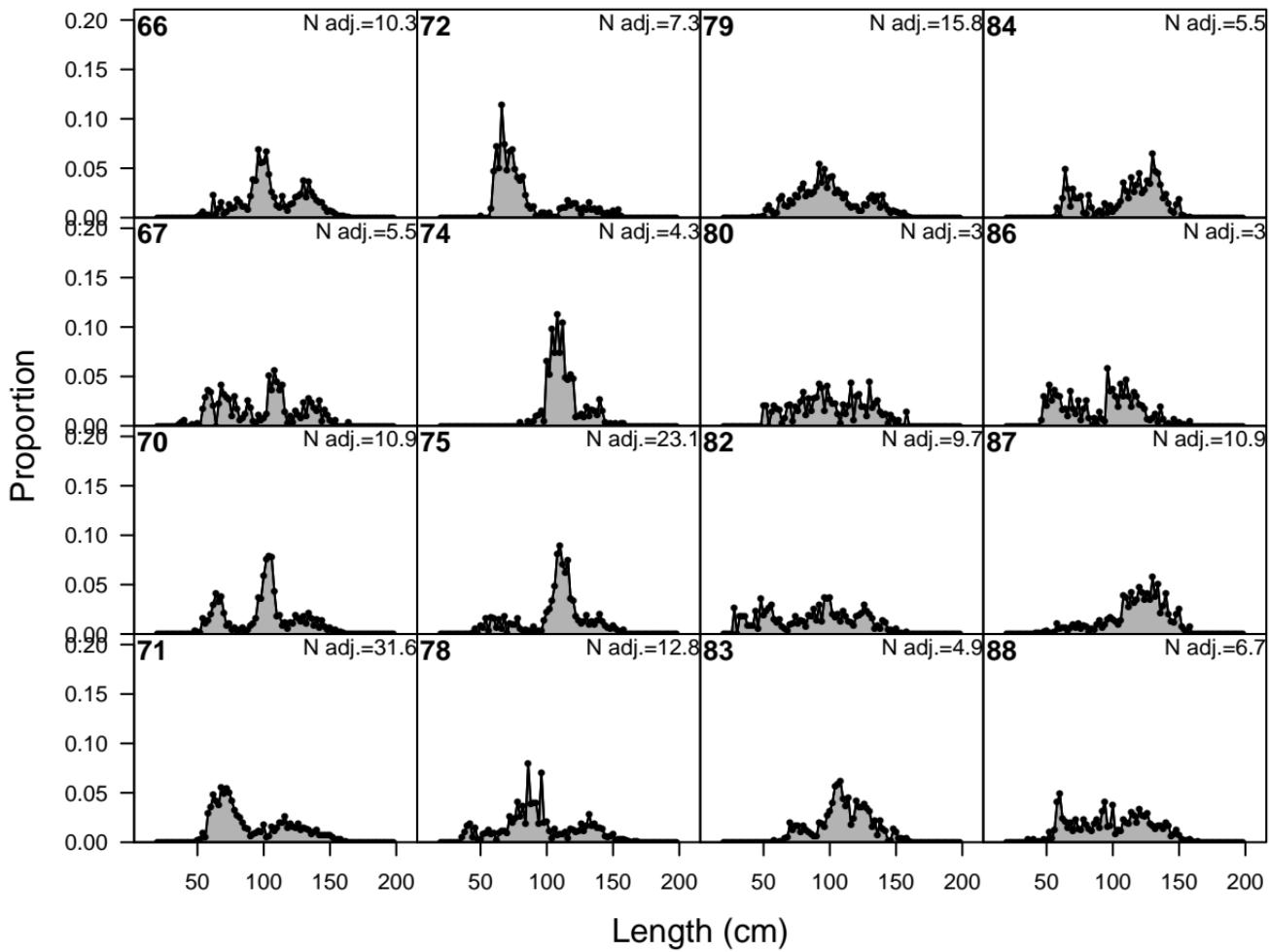
Length (cm)

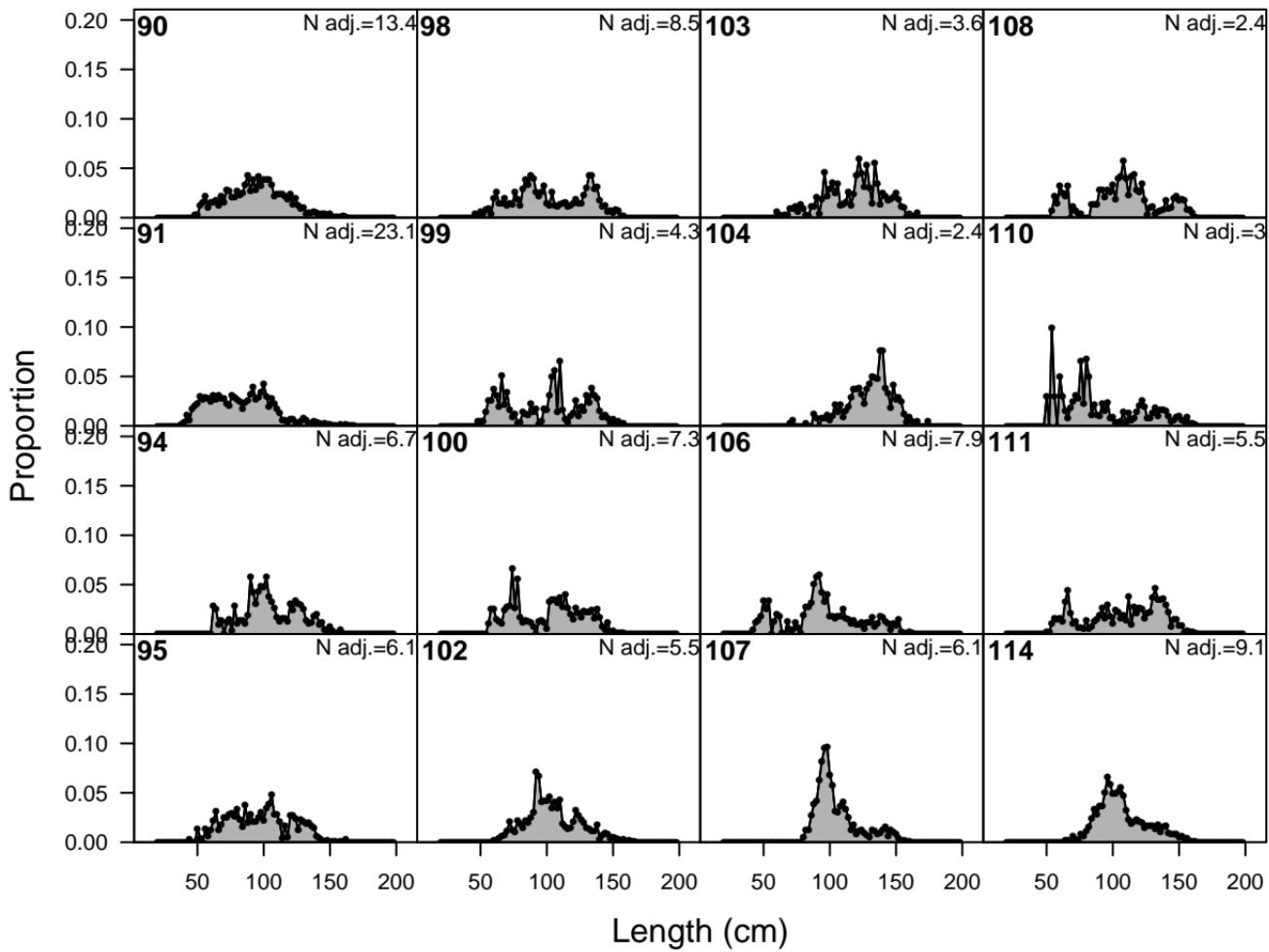


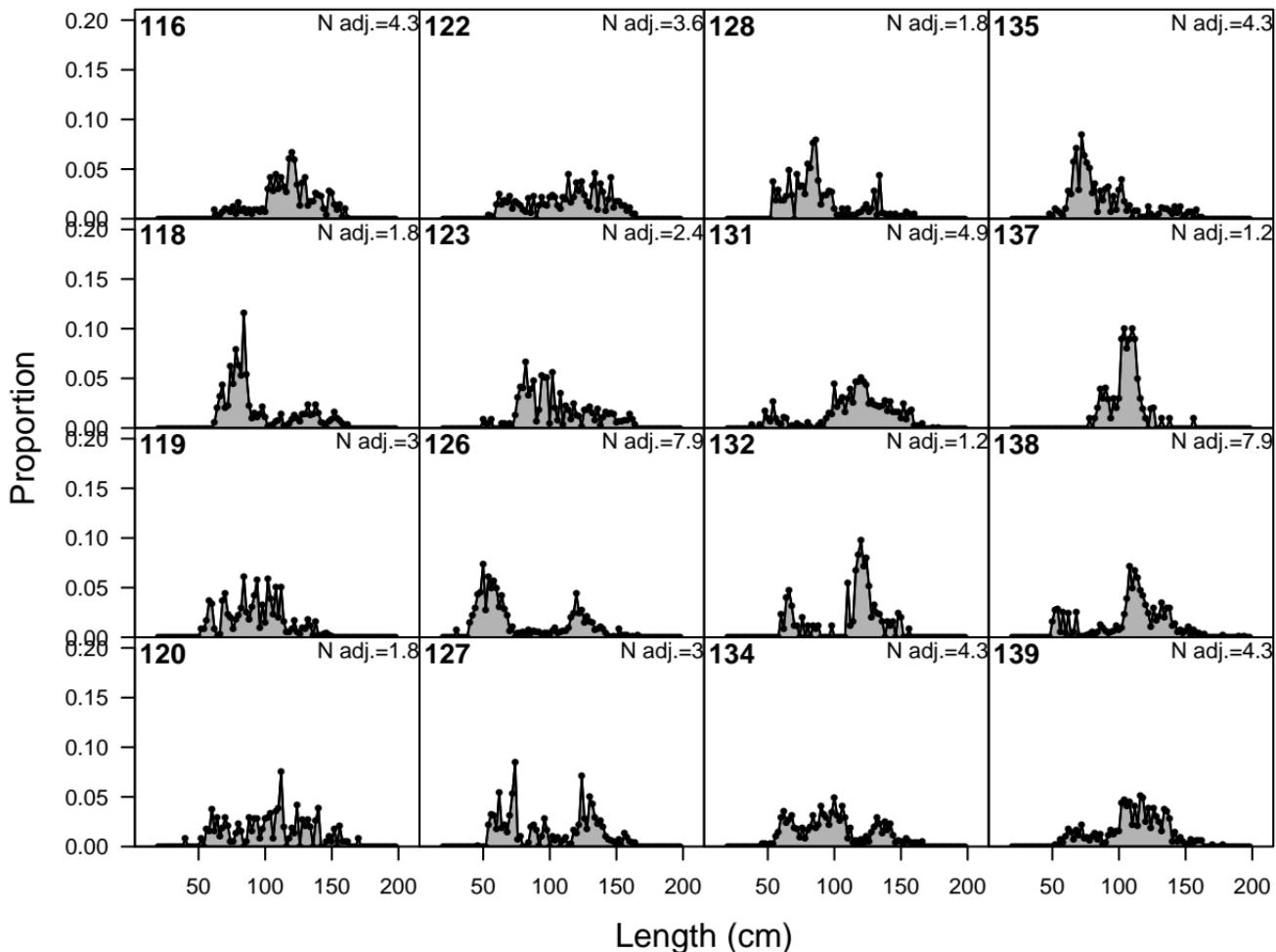
F15-DEL_N (whole catch)

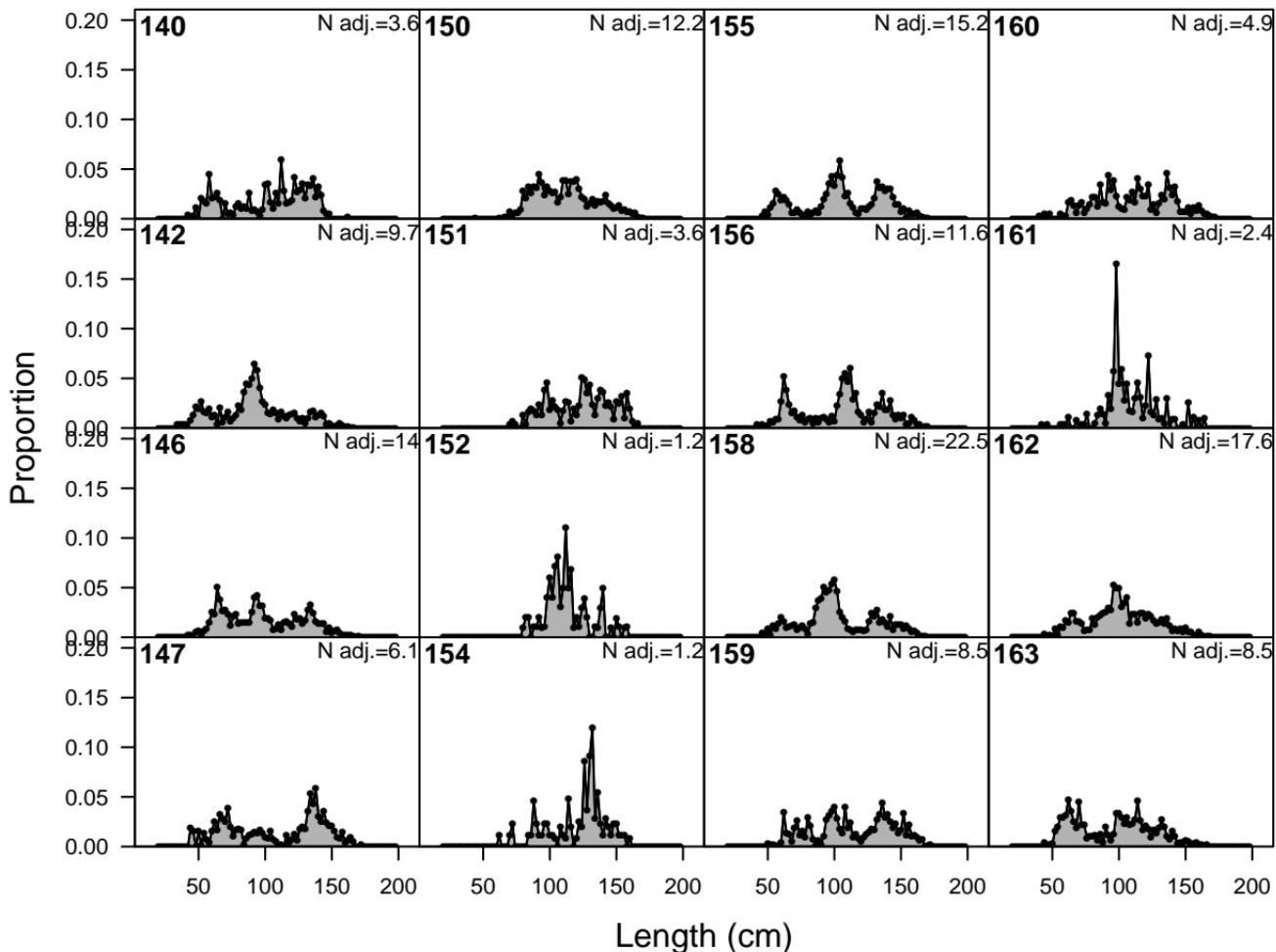


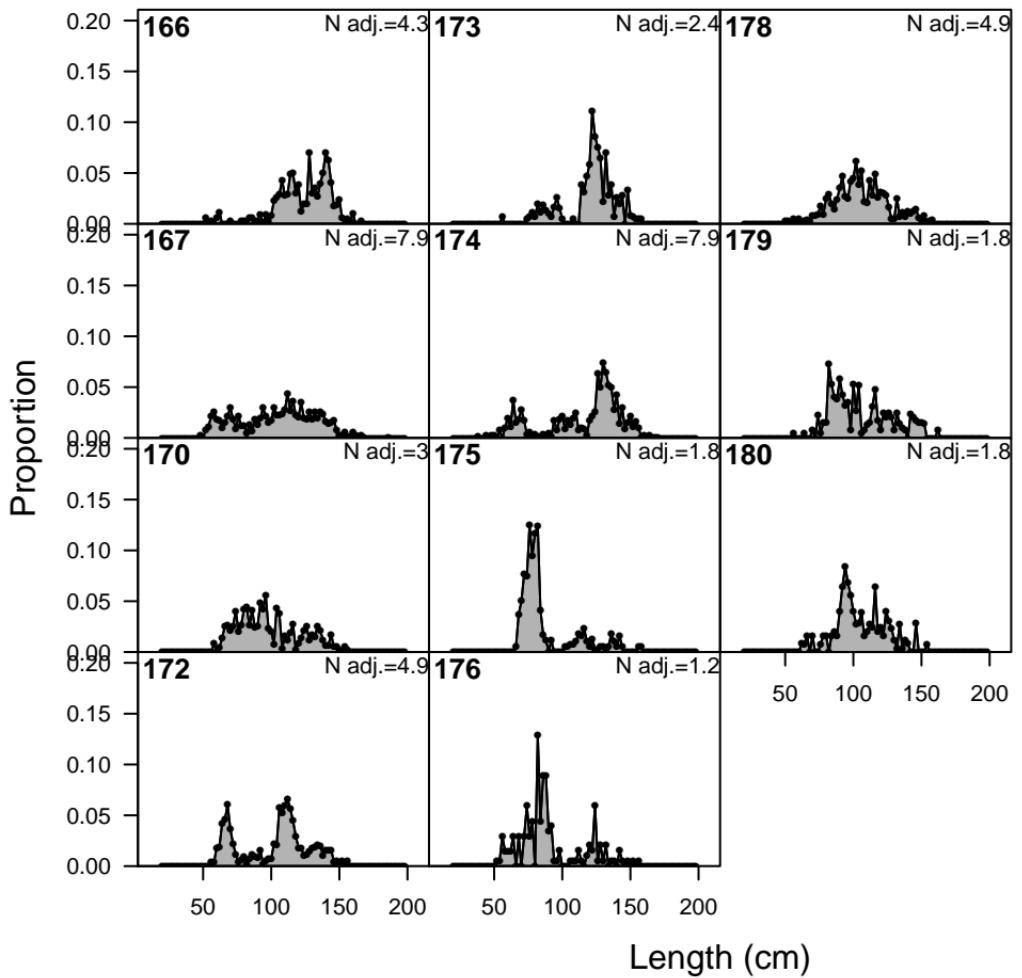


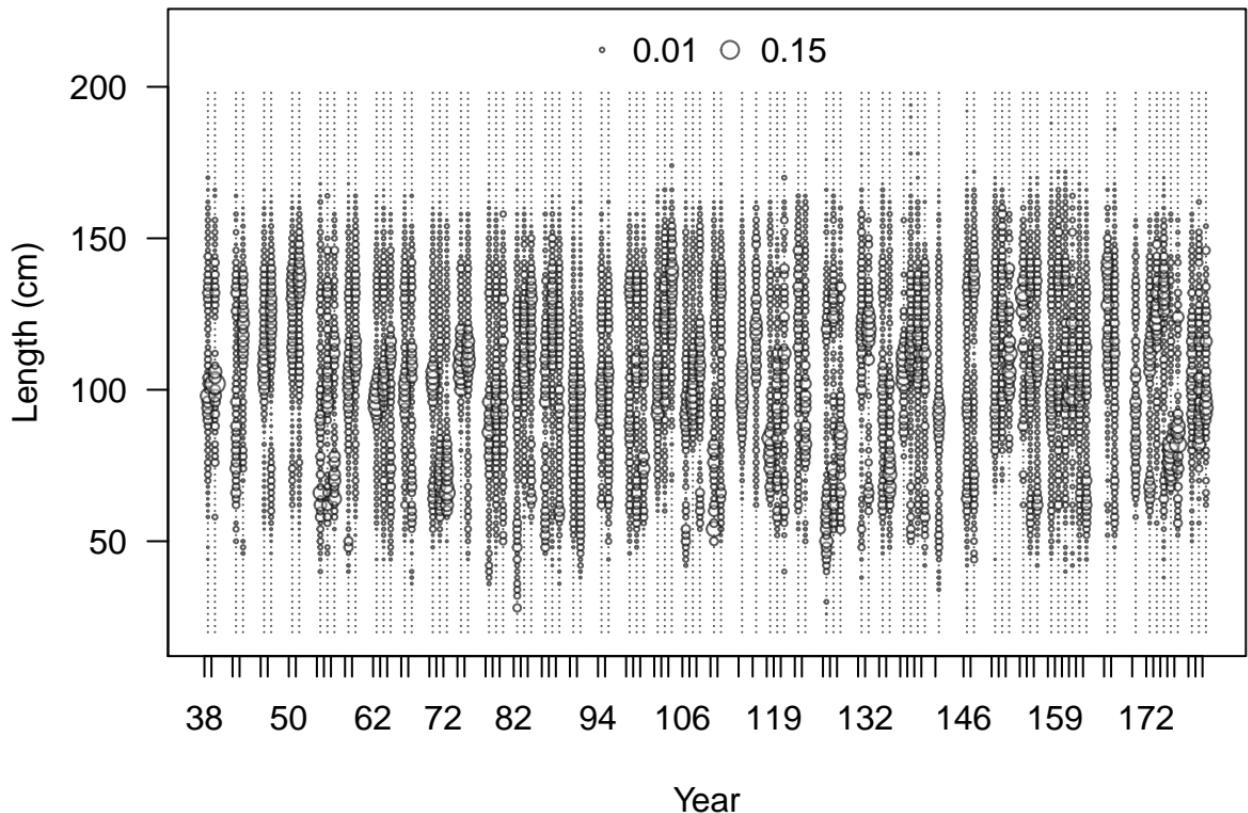




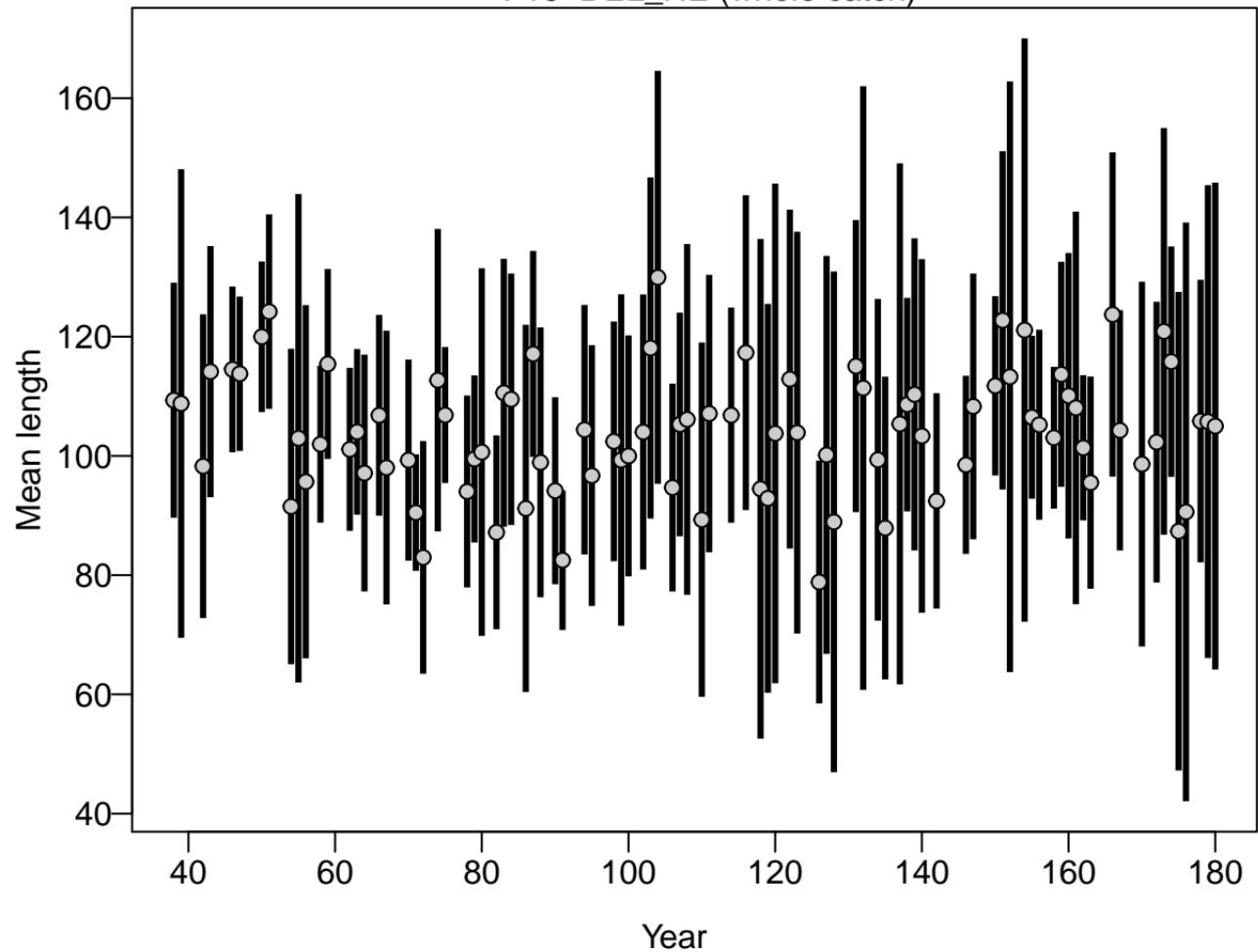




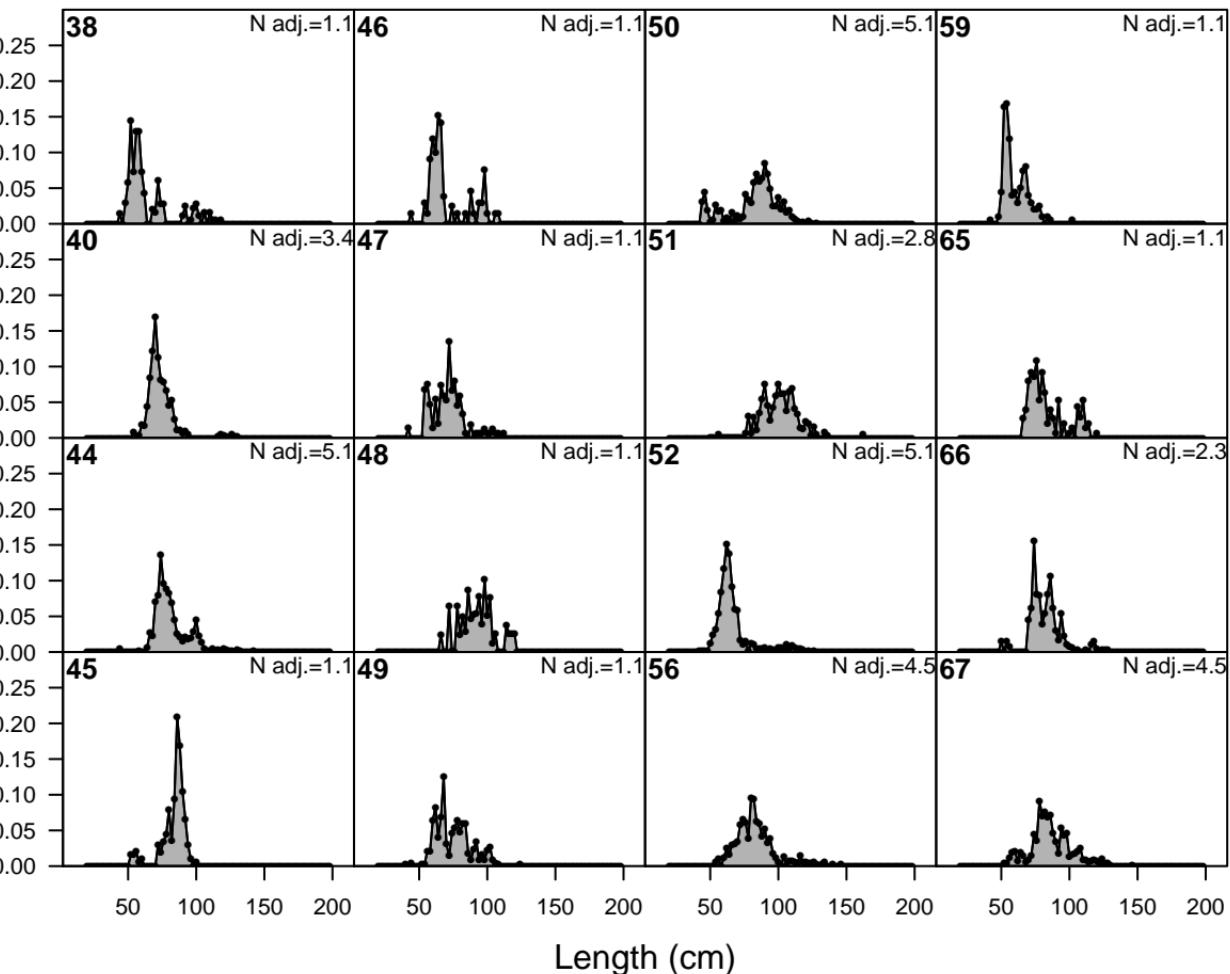


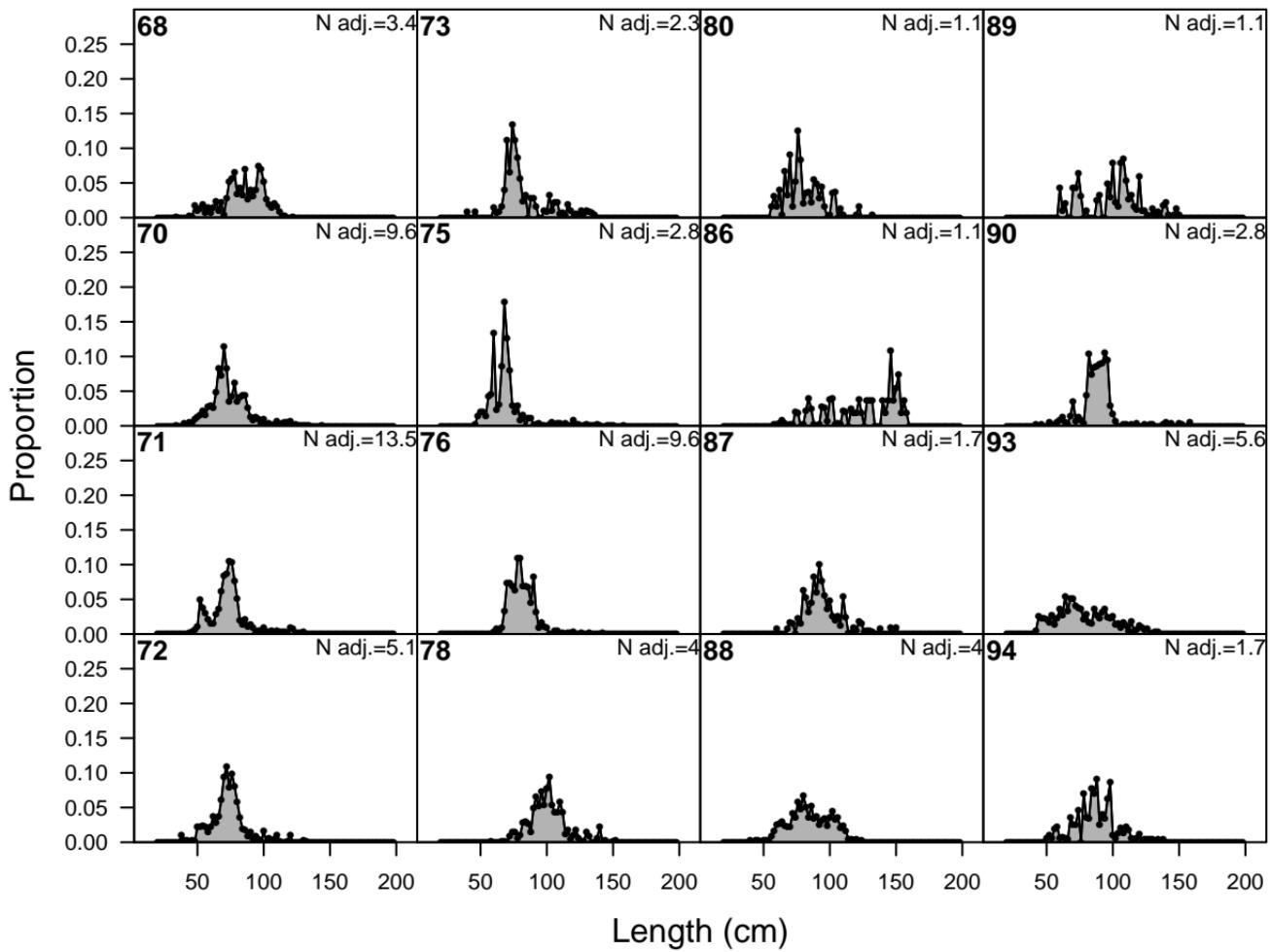


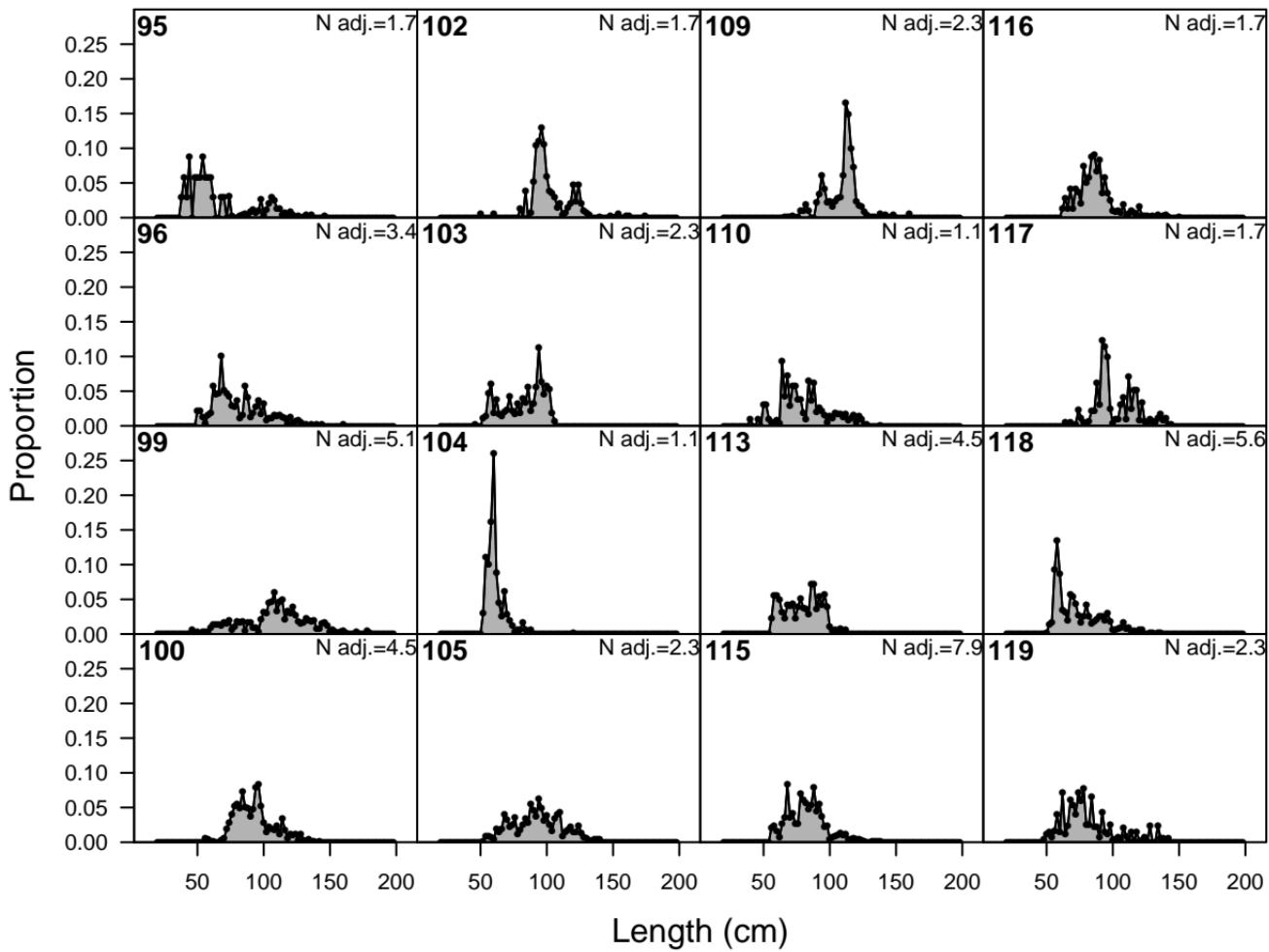
F16-DEL_NE (whole catch)

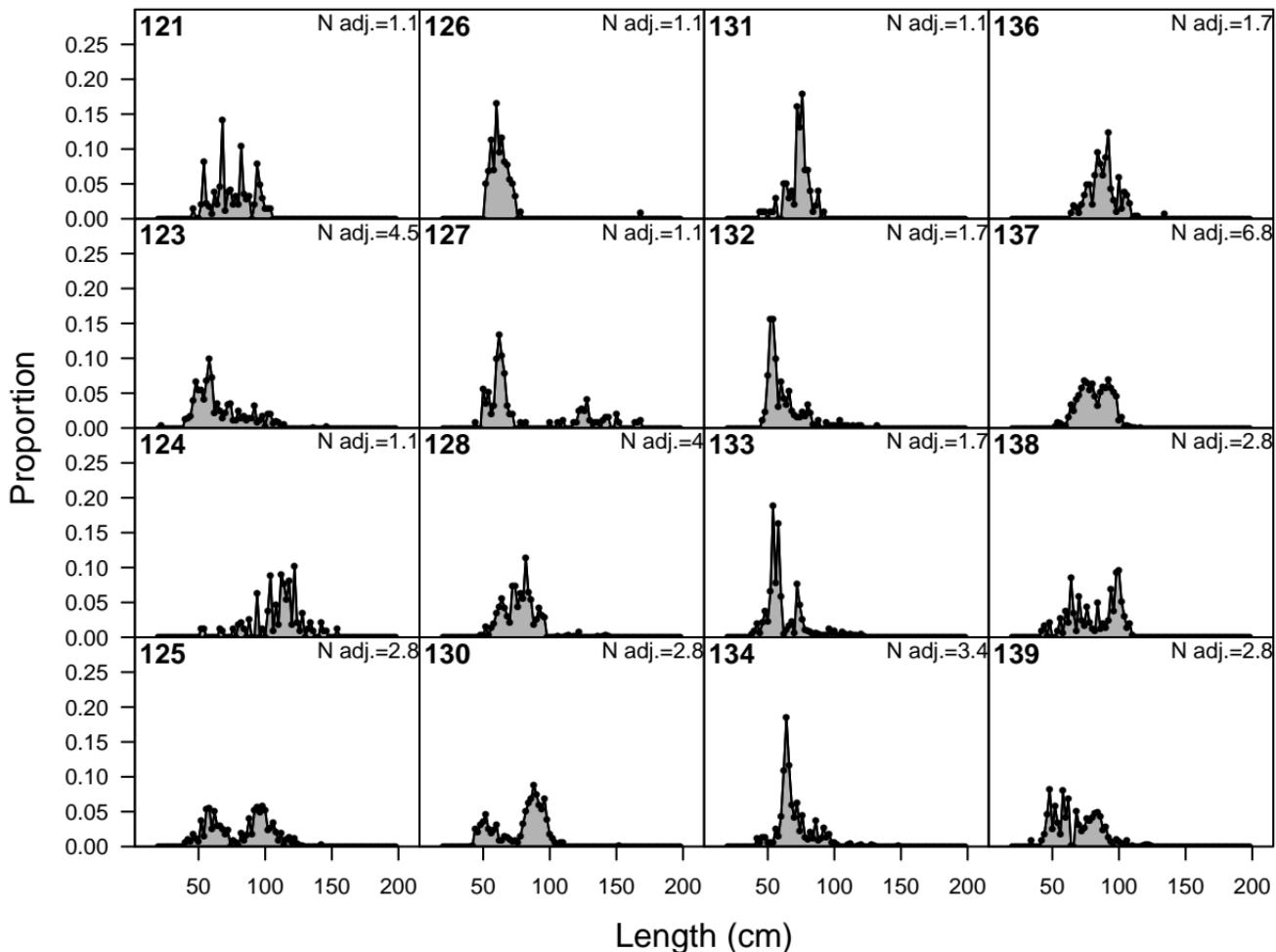


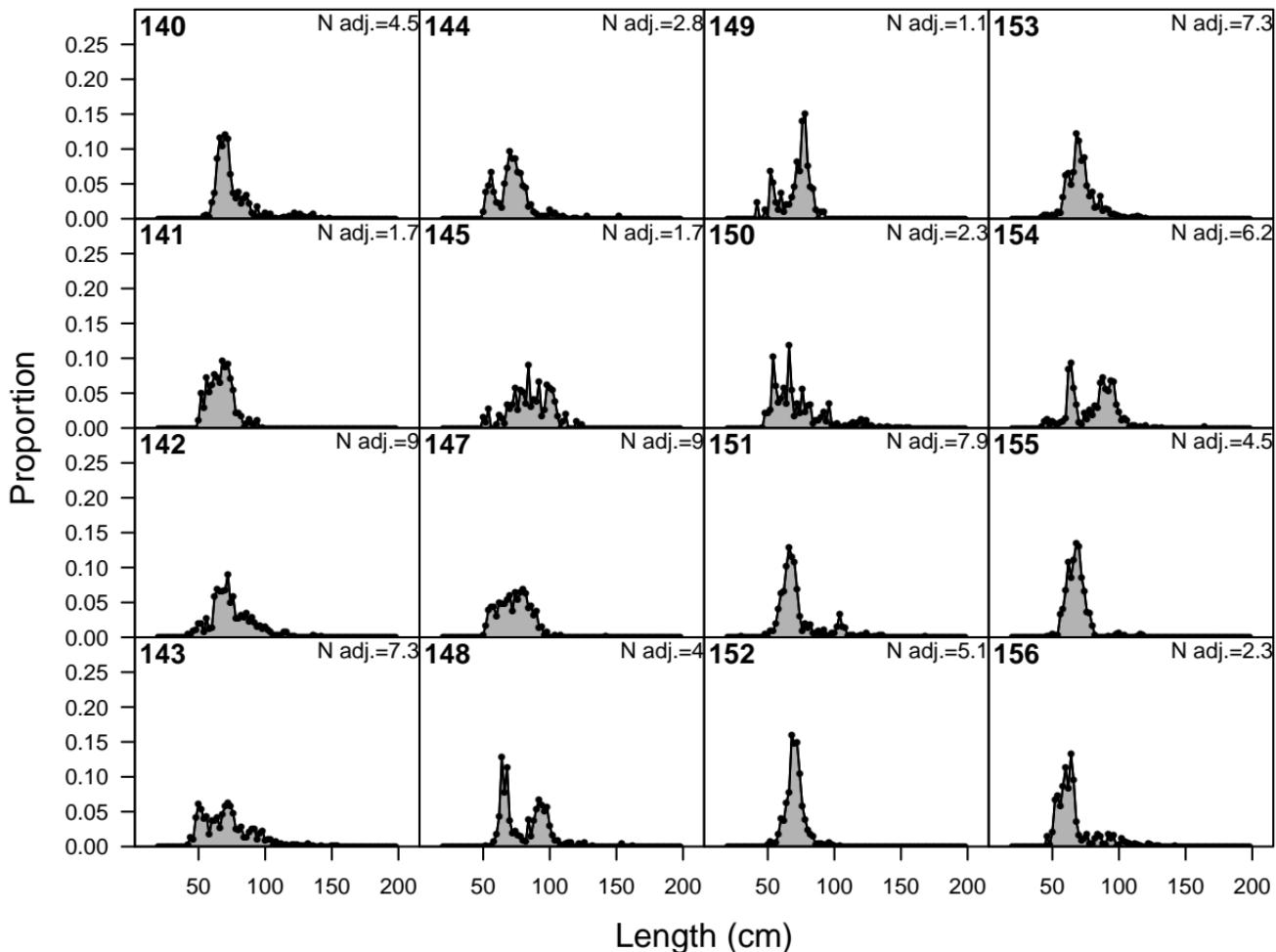
Proportion

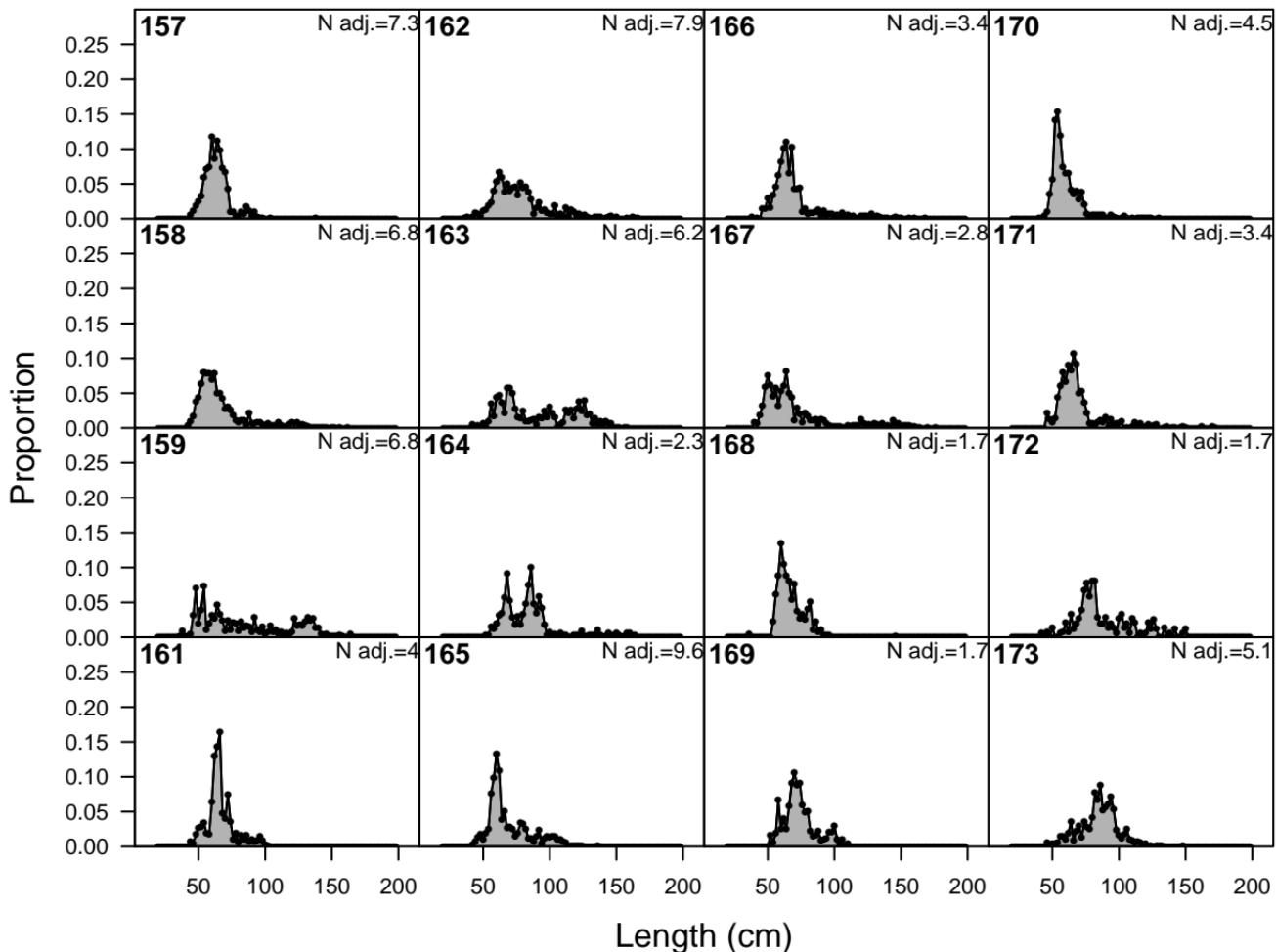


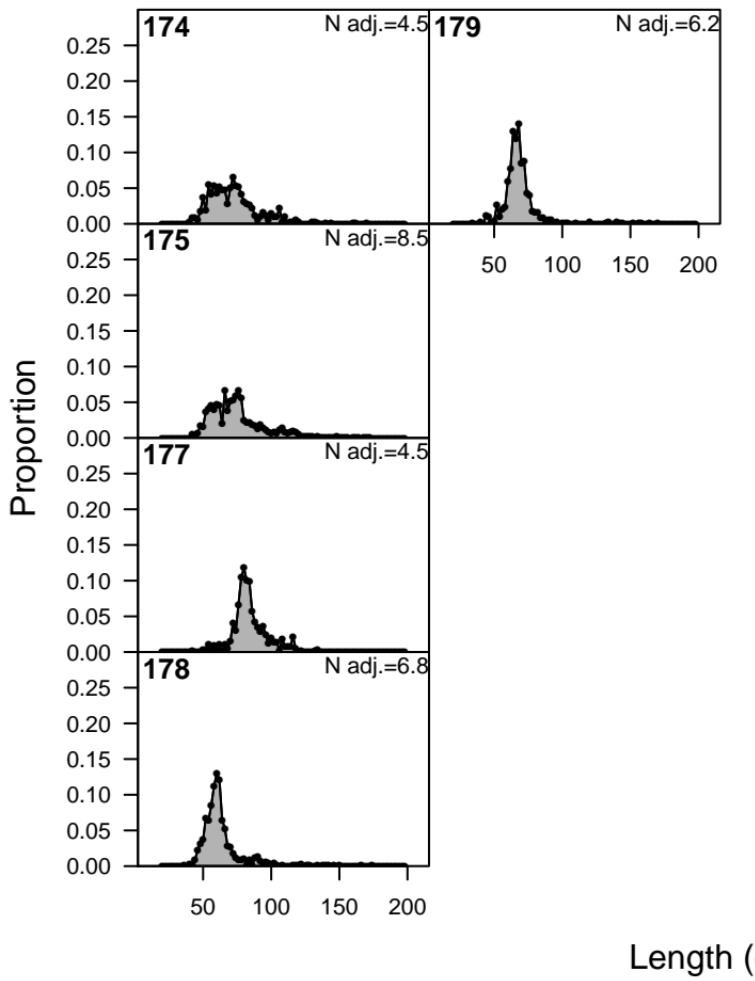


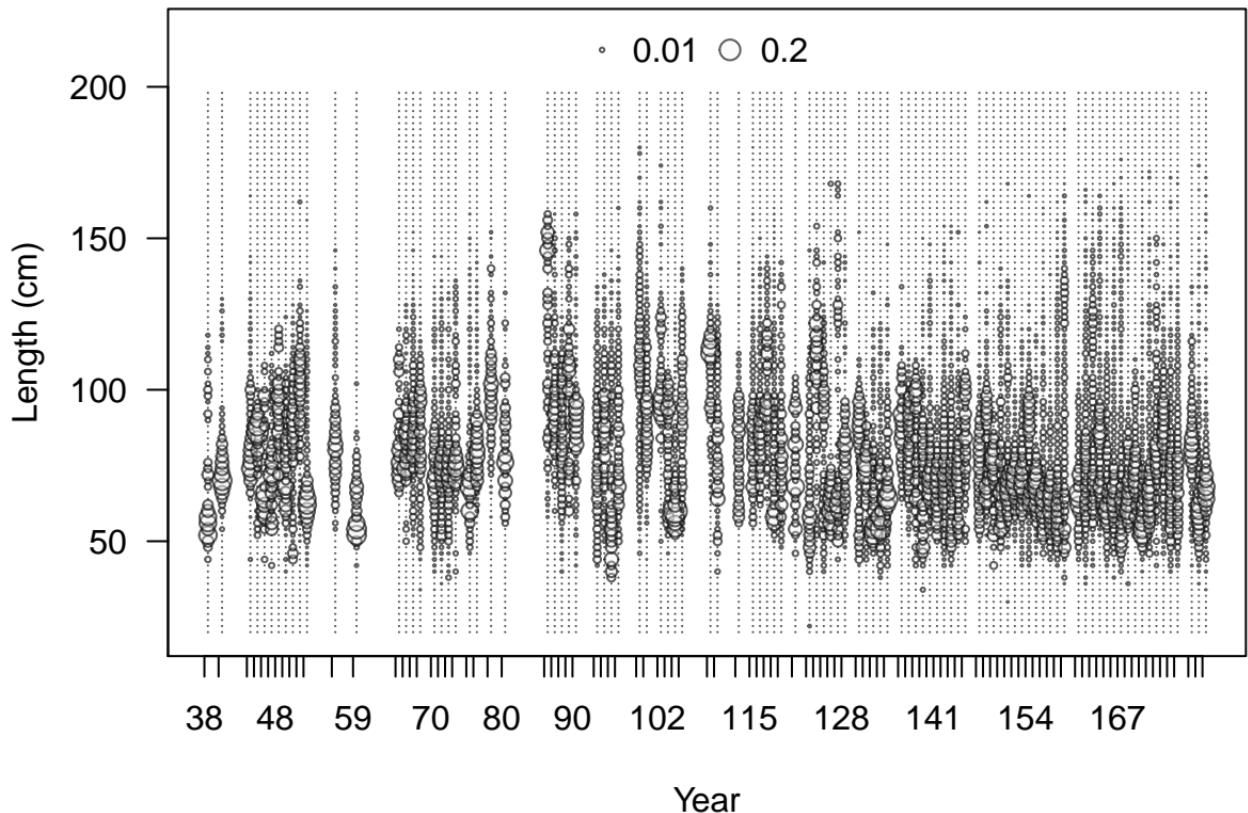




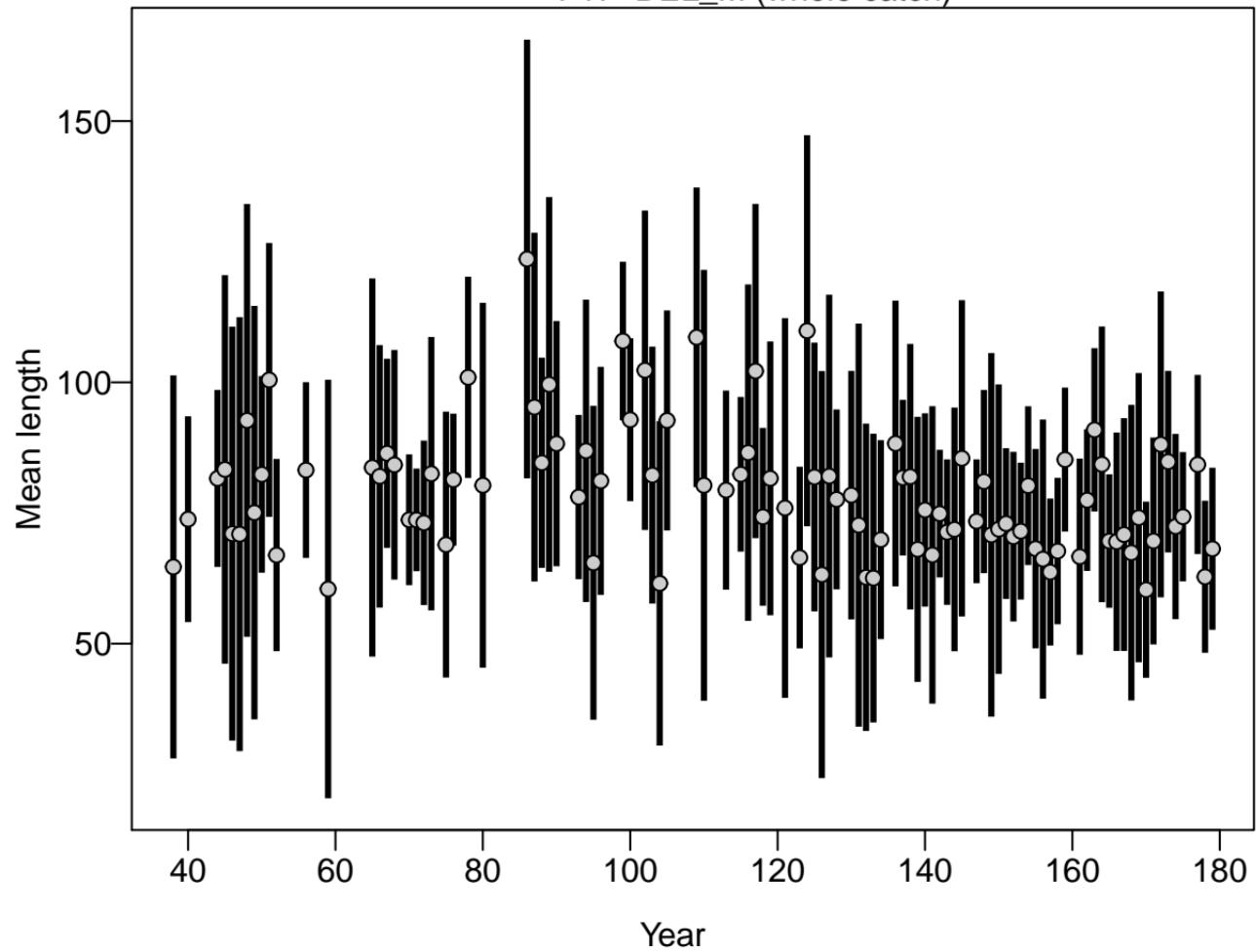


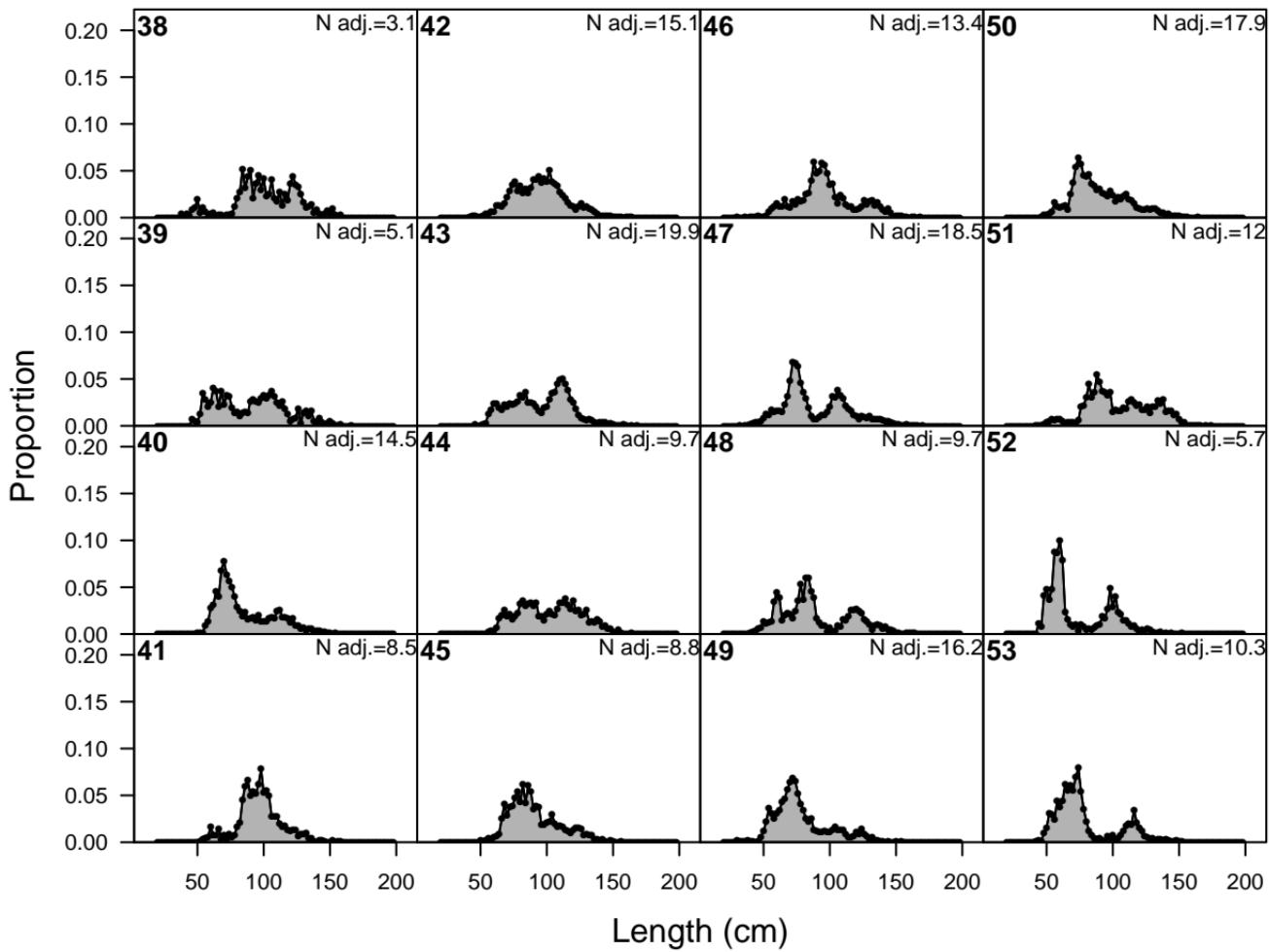


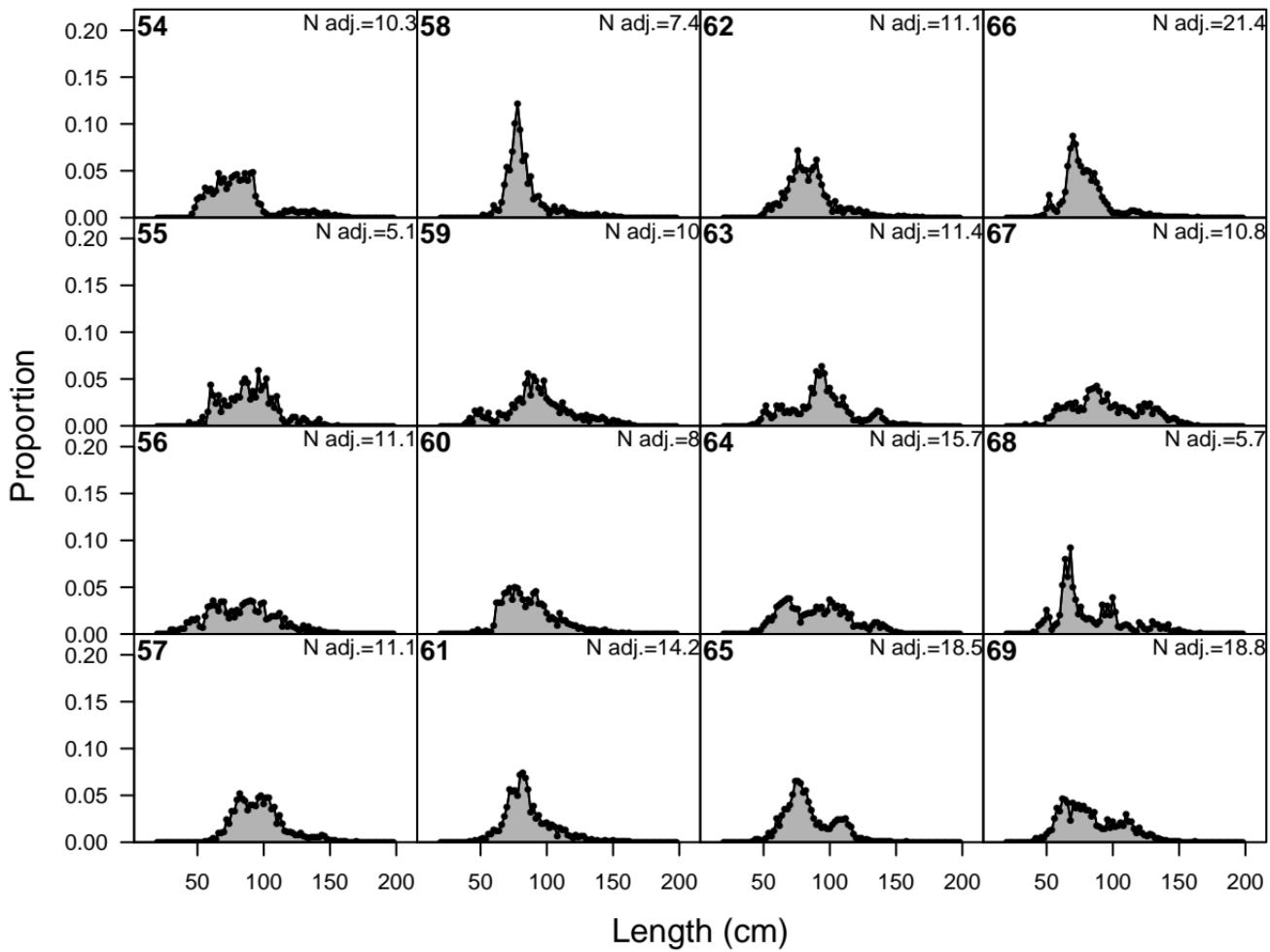


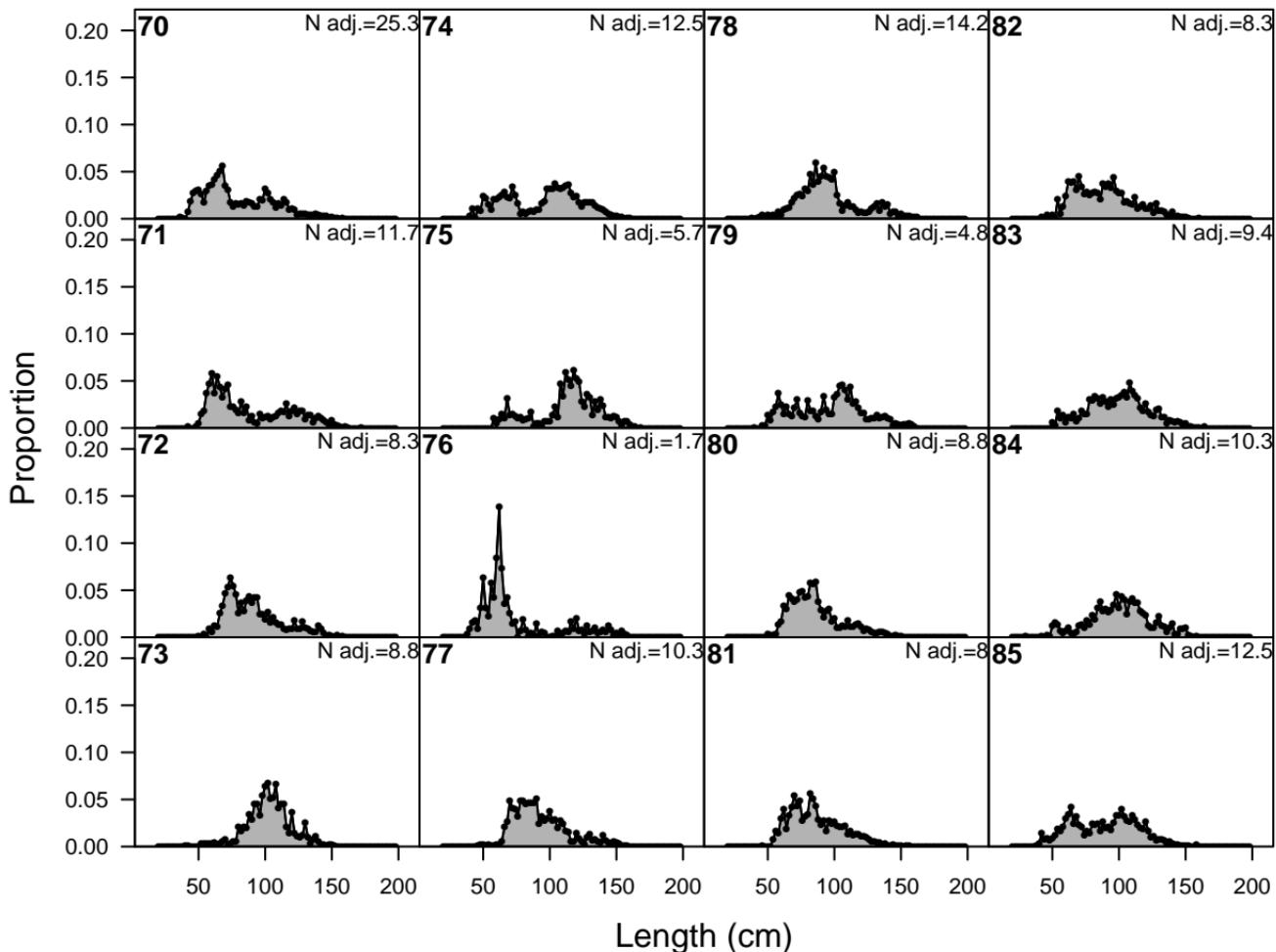


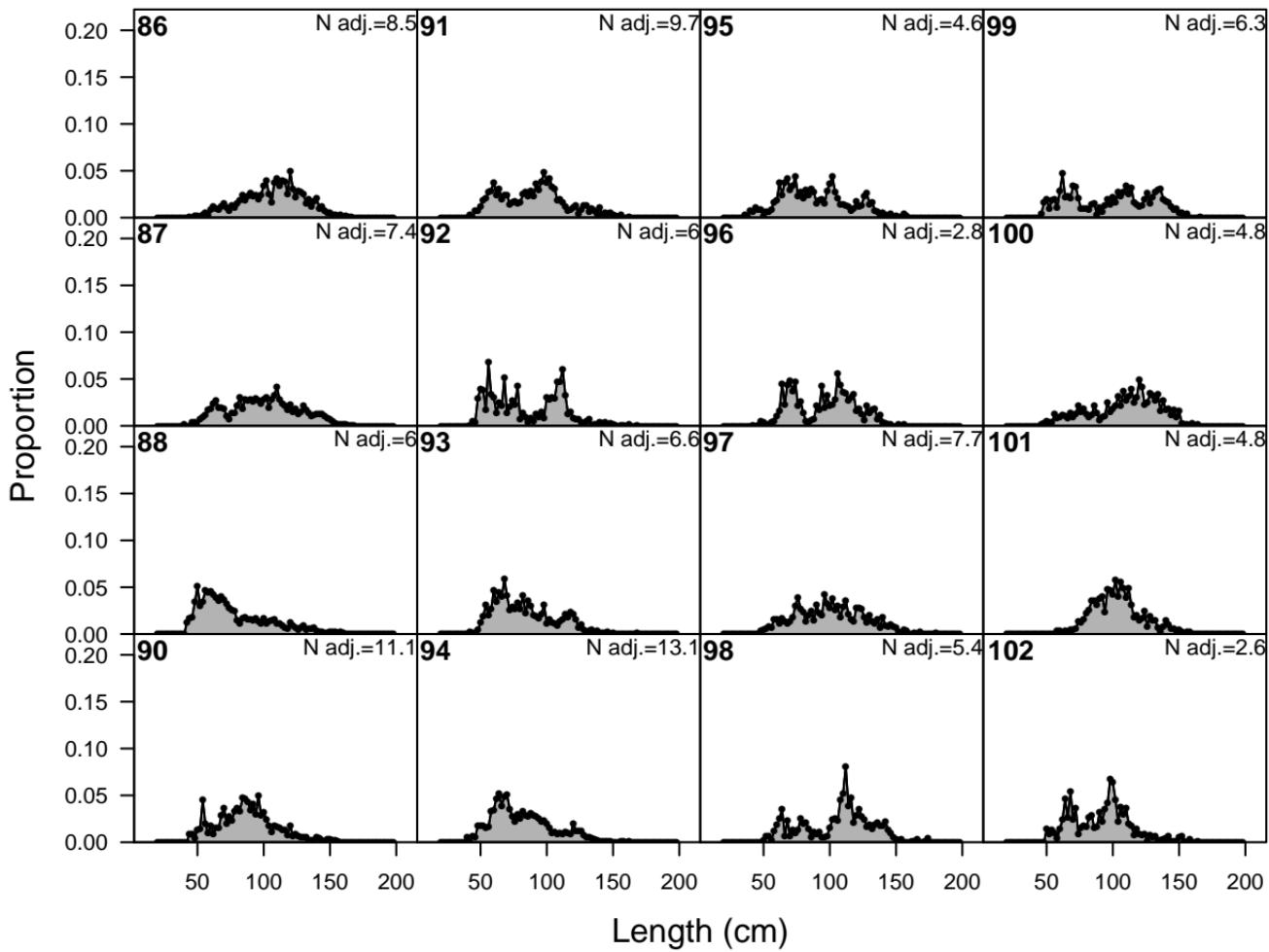
F17-DEL_M (whole catch)

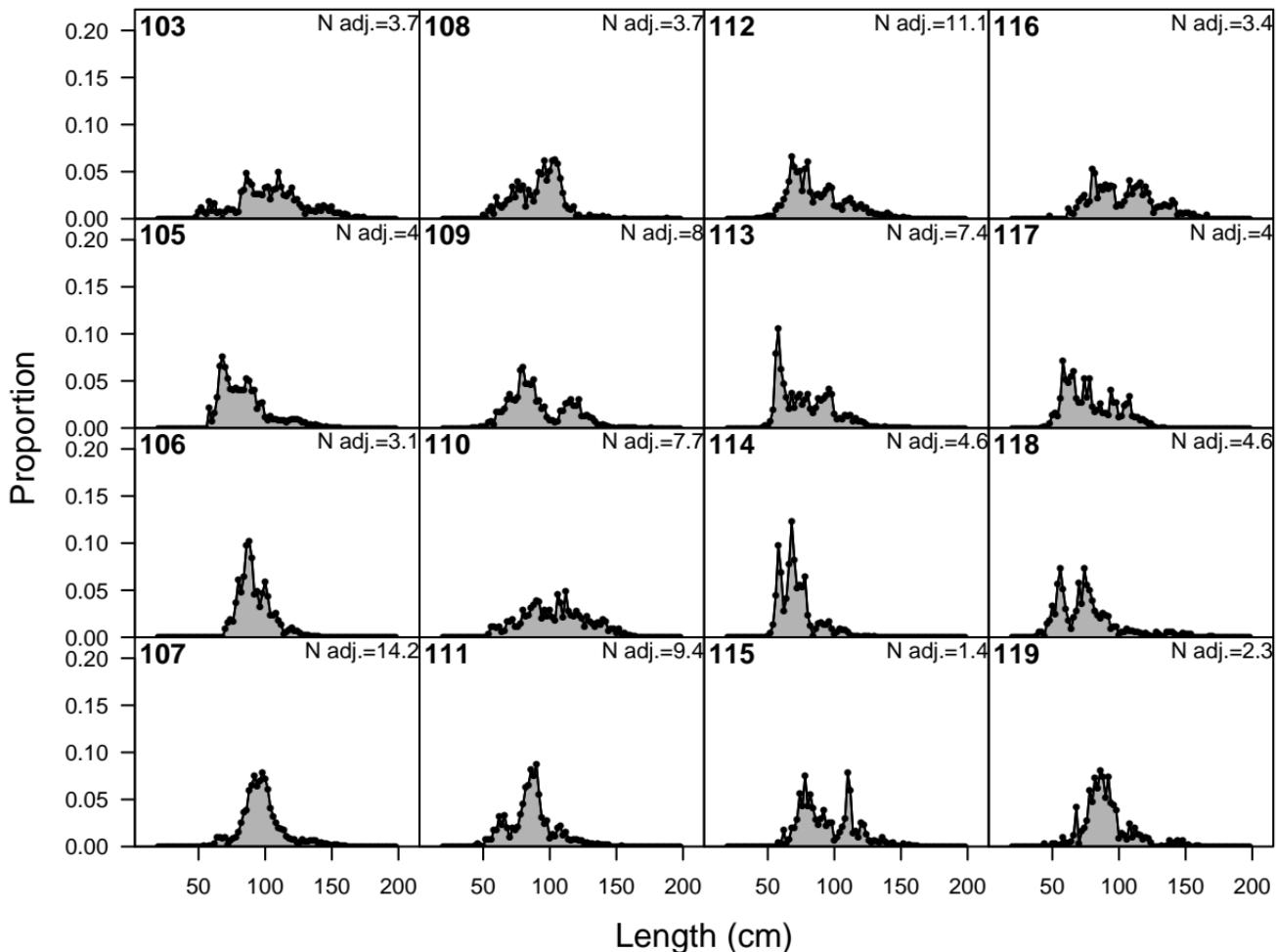


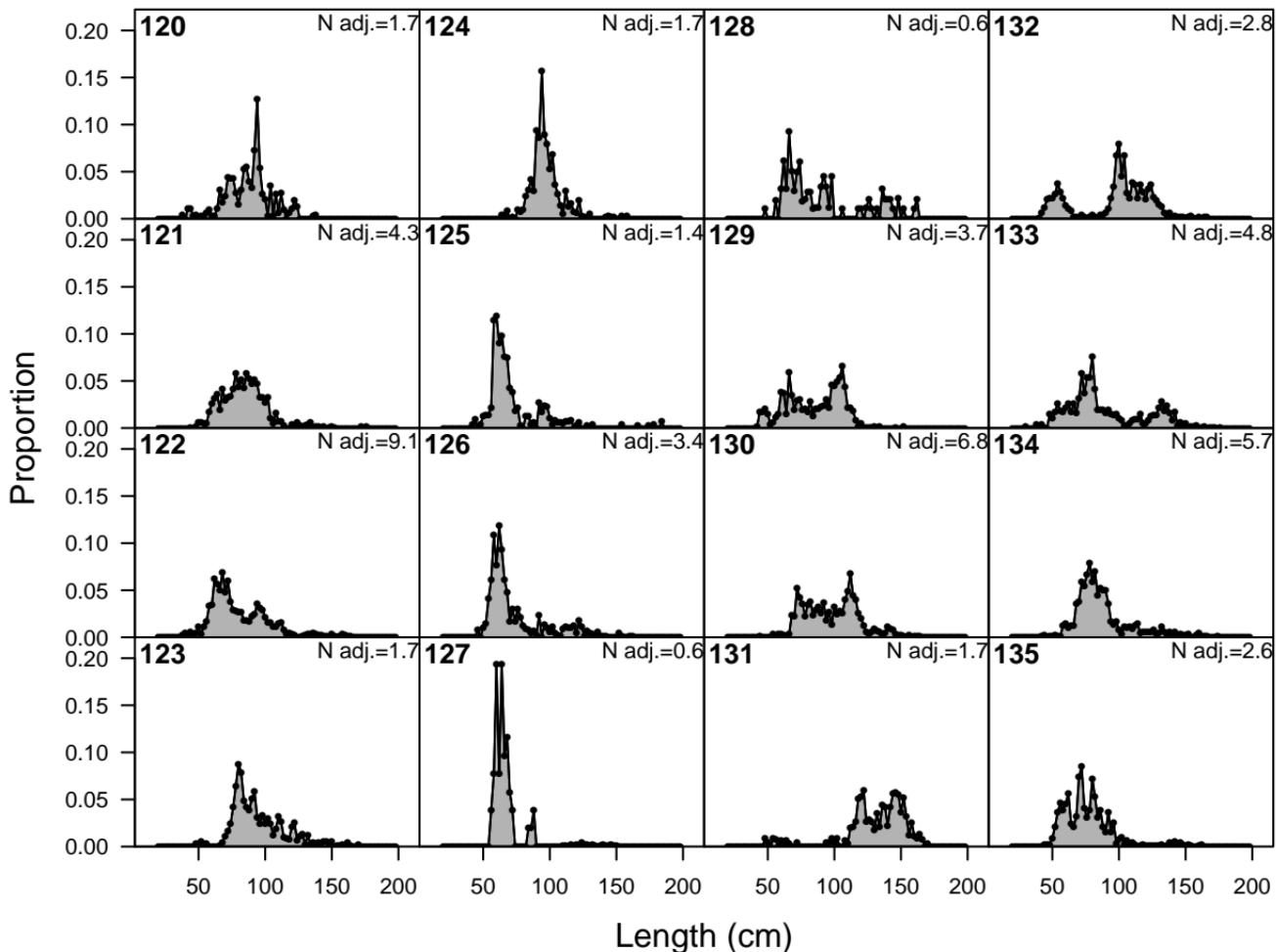


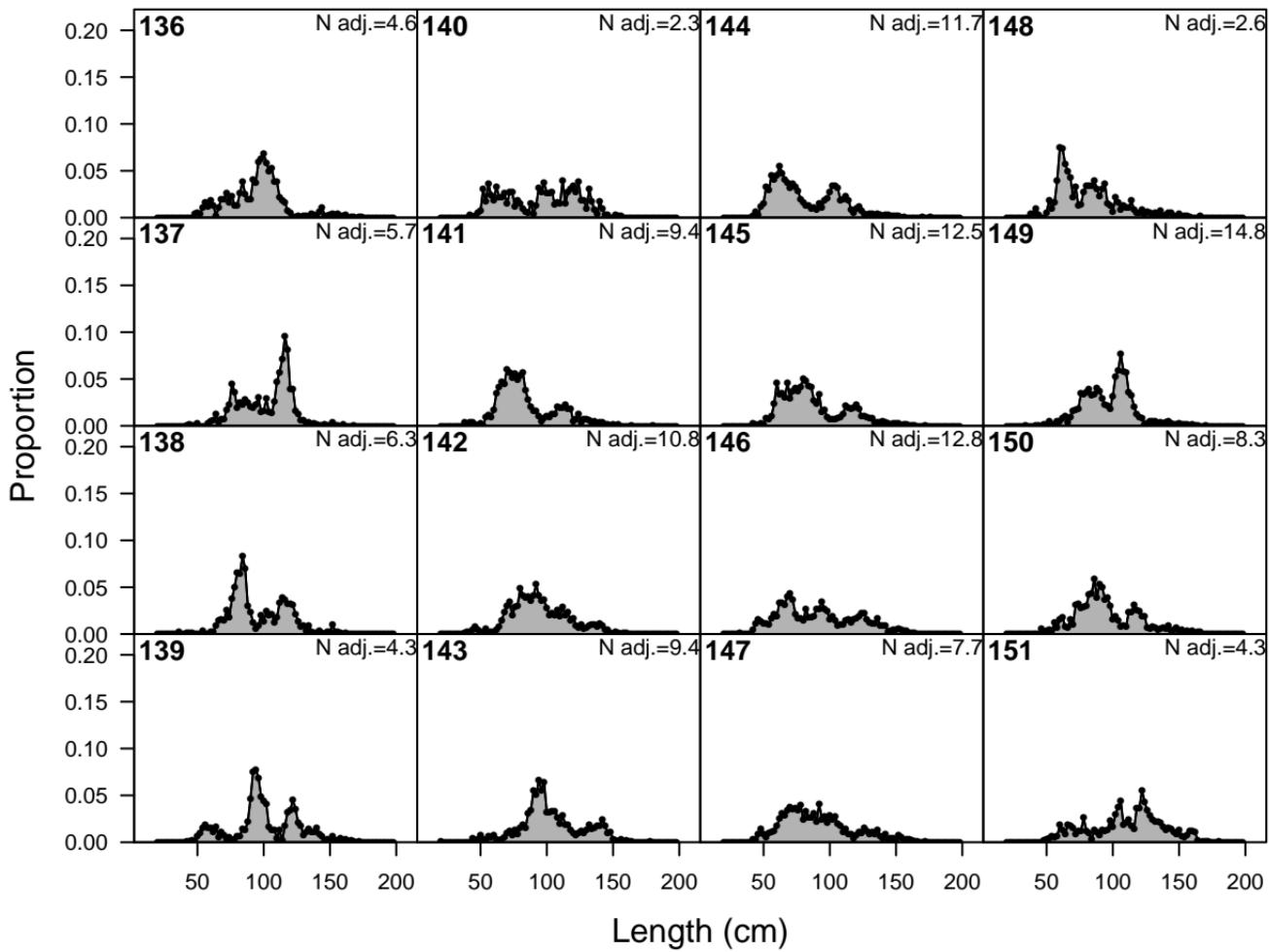


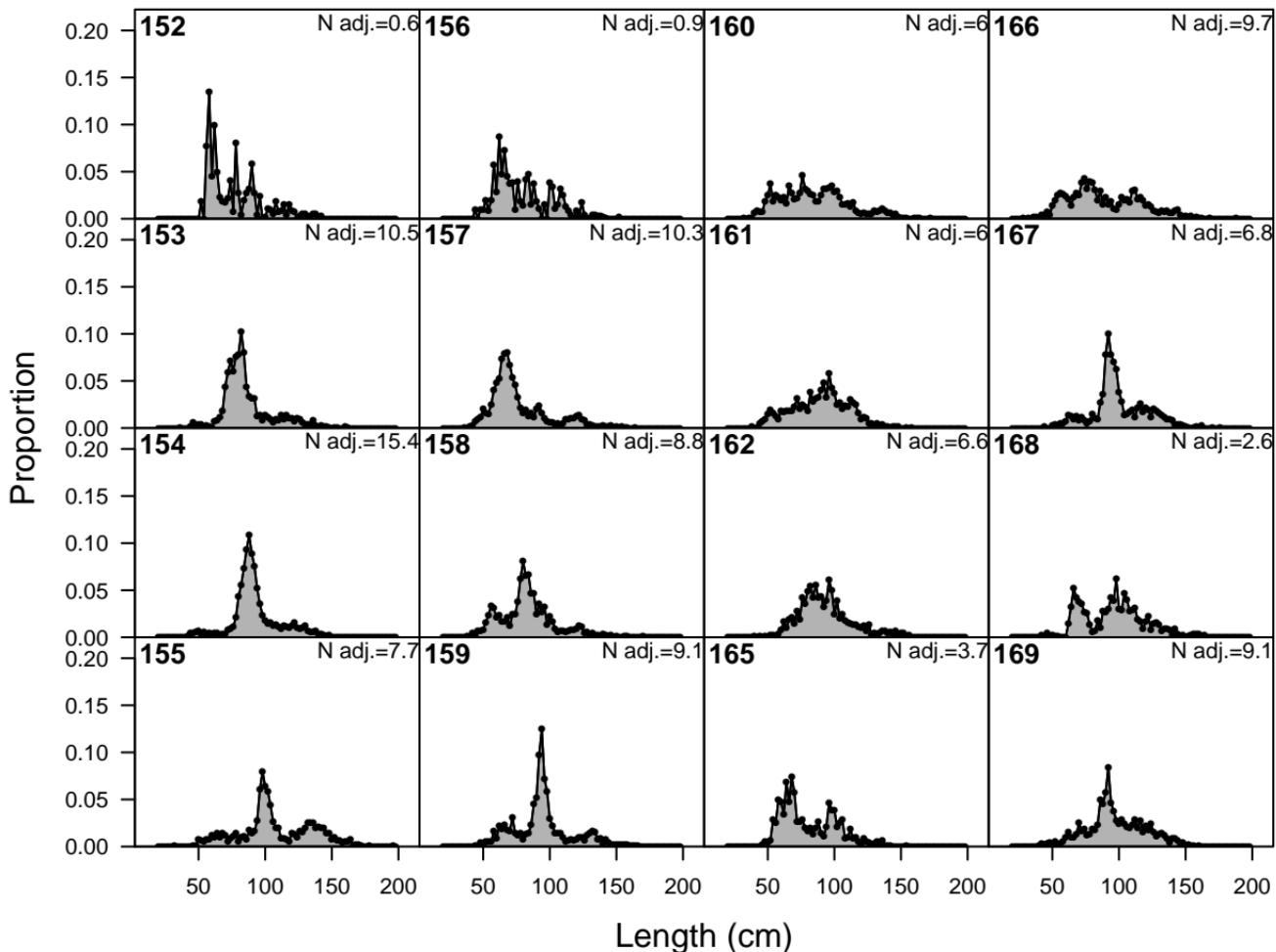


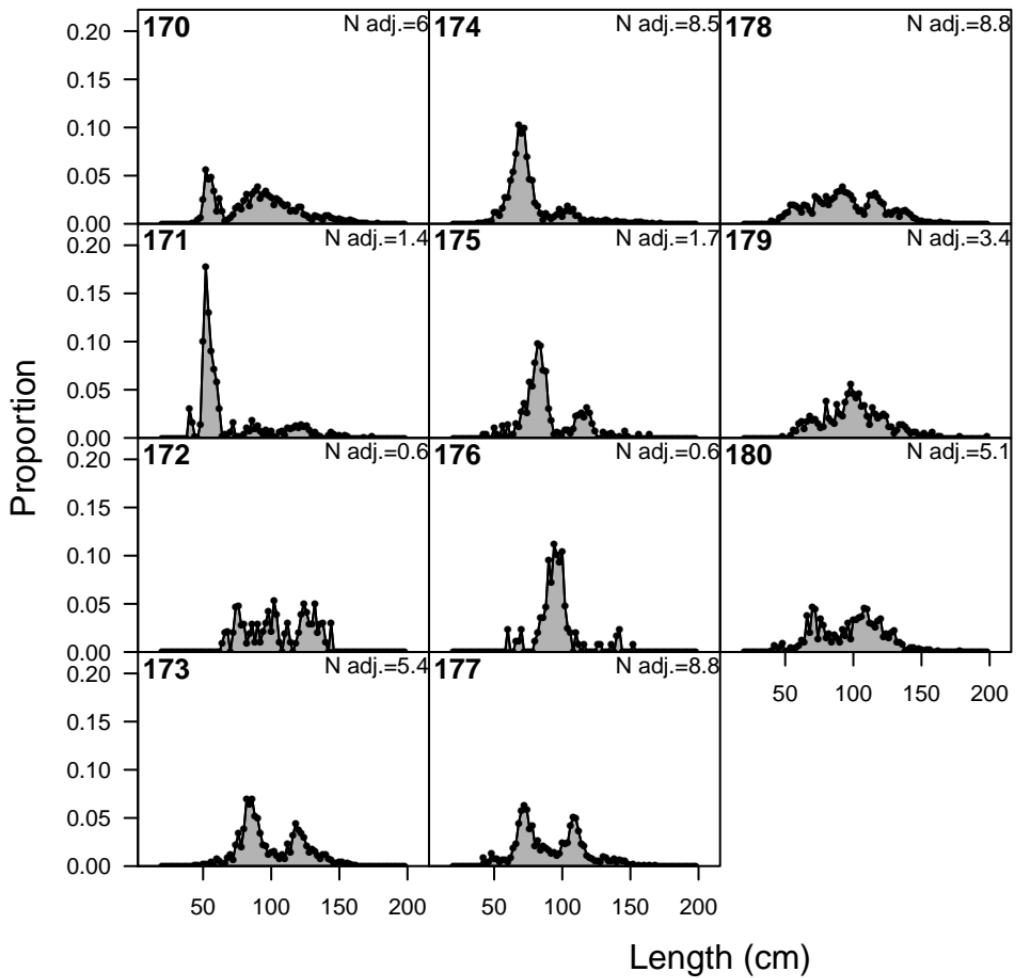


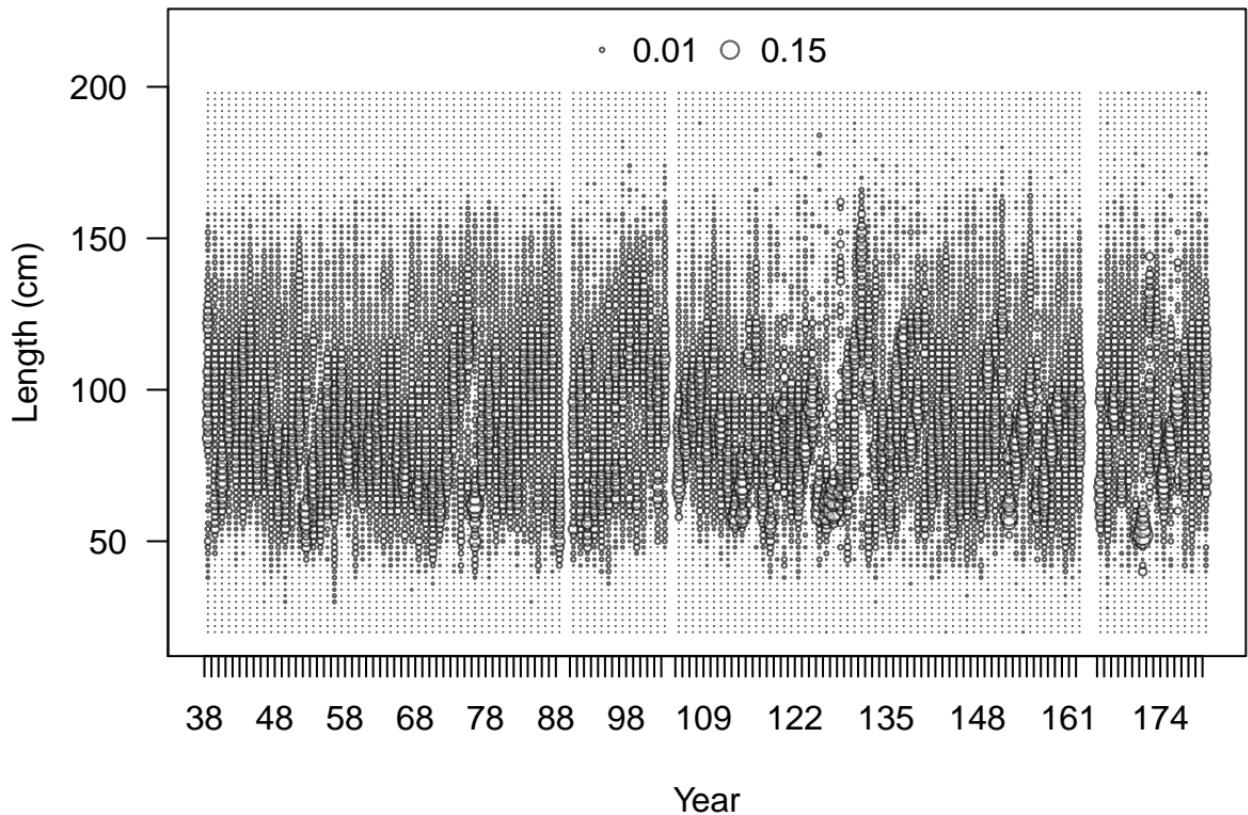




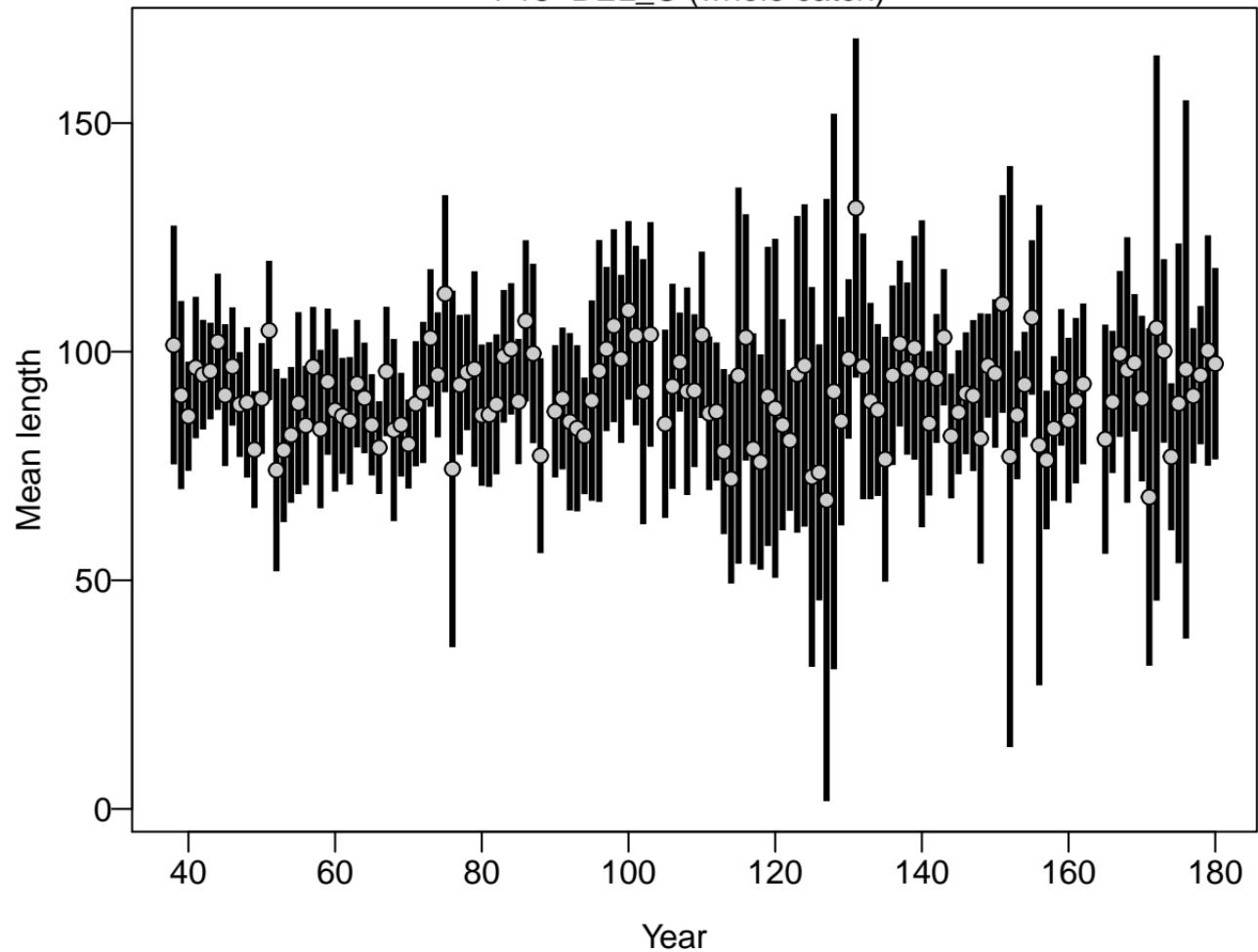


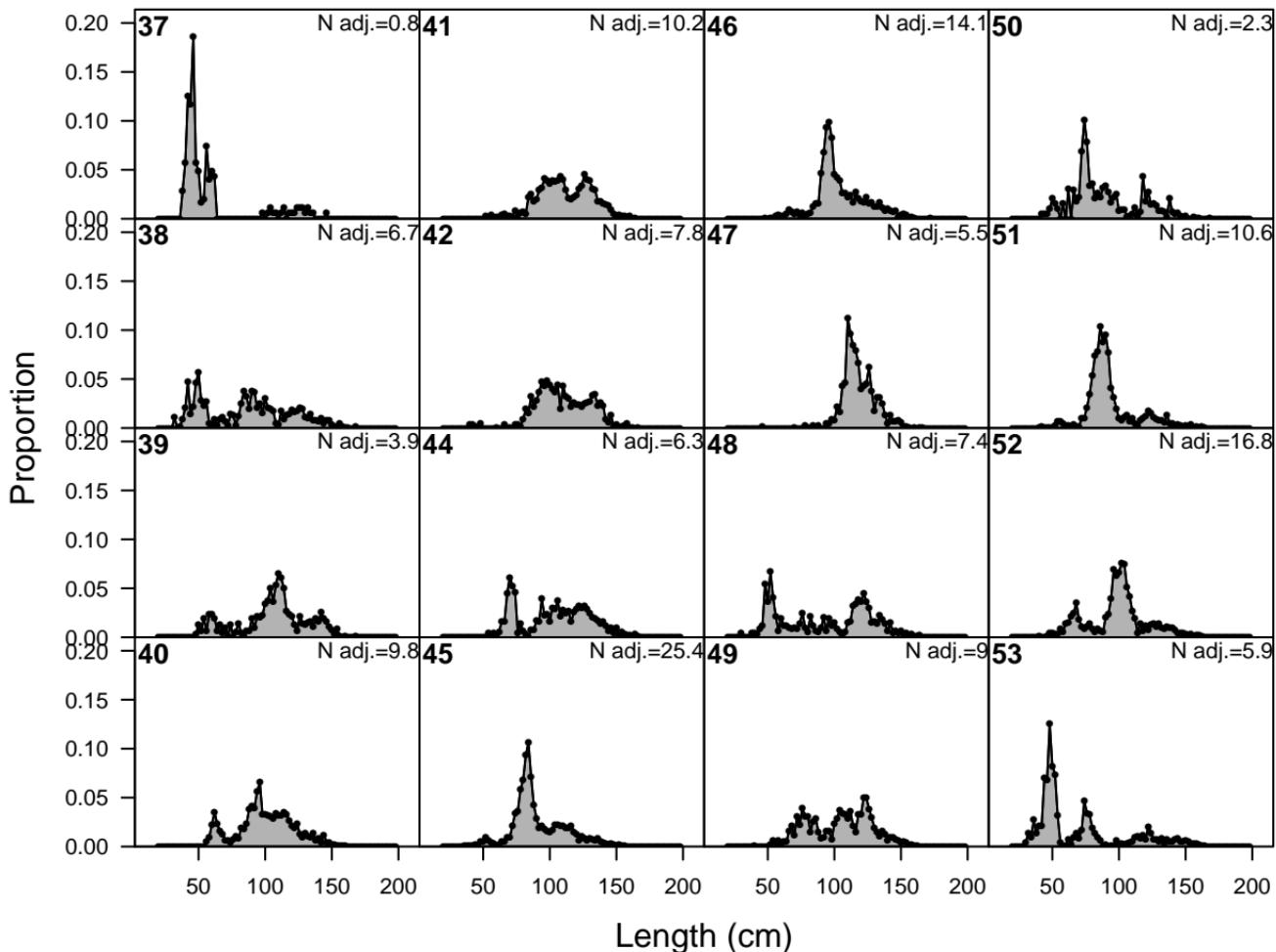


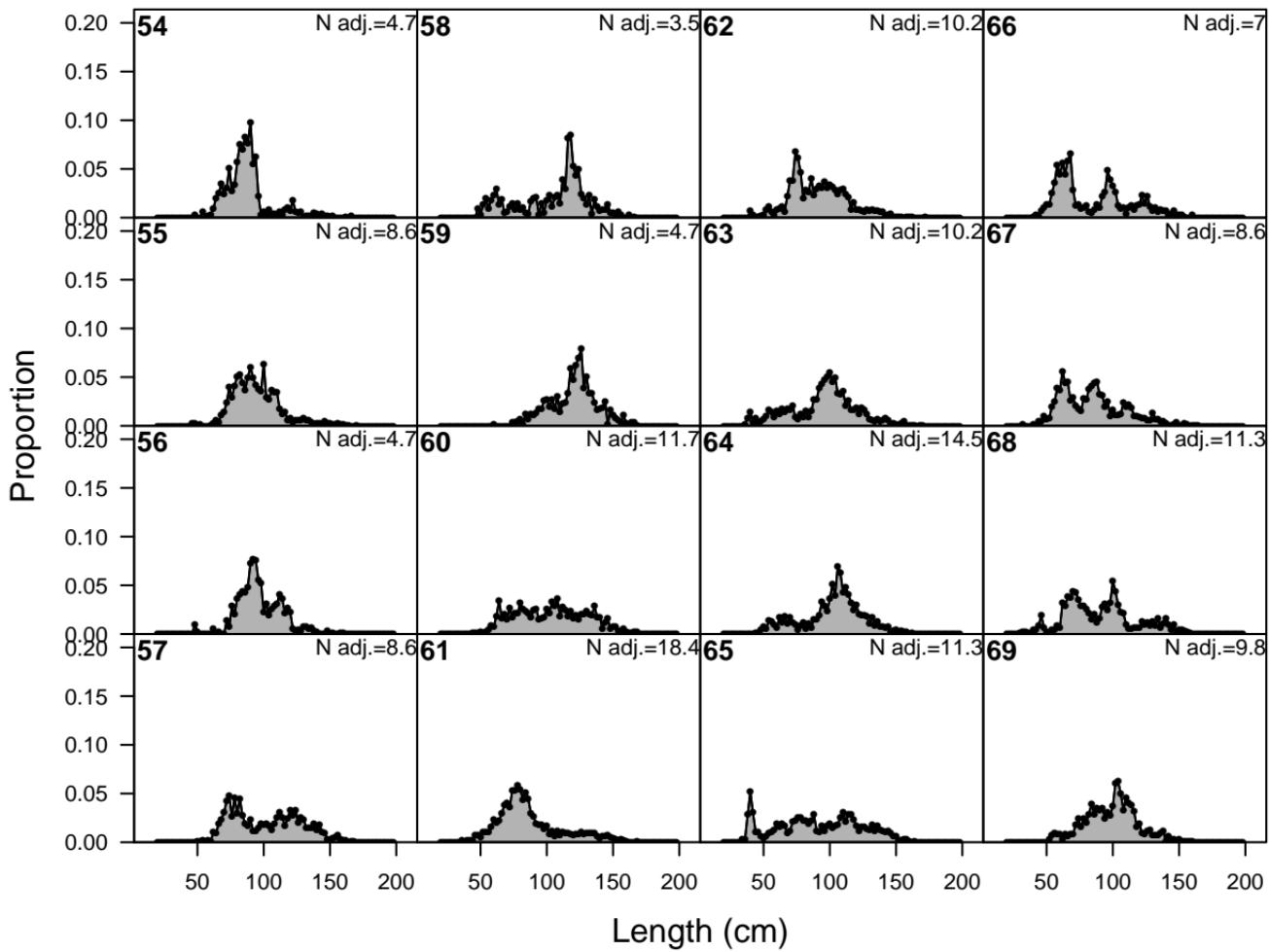


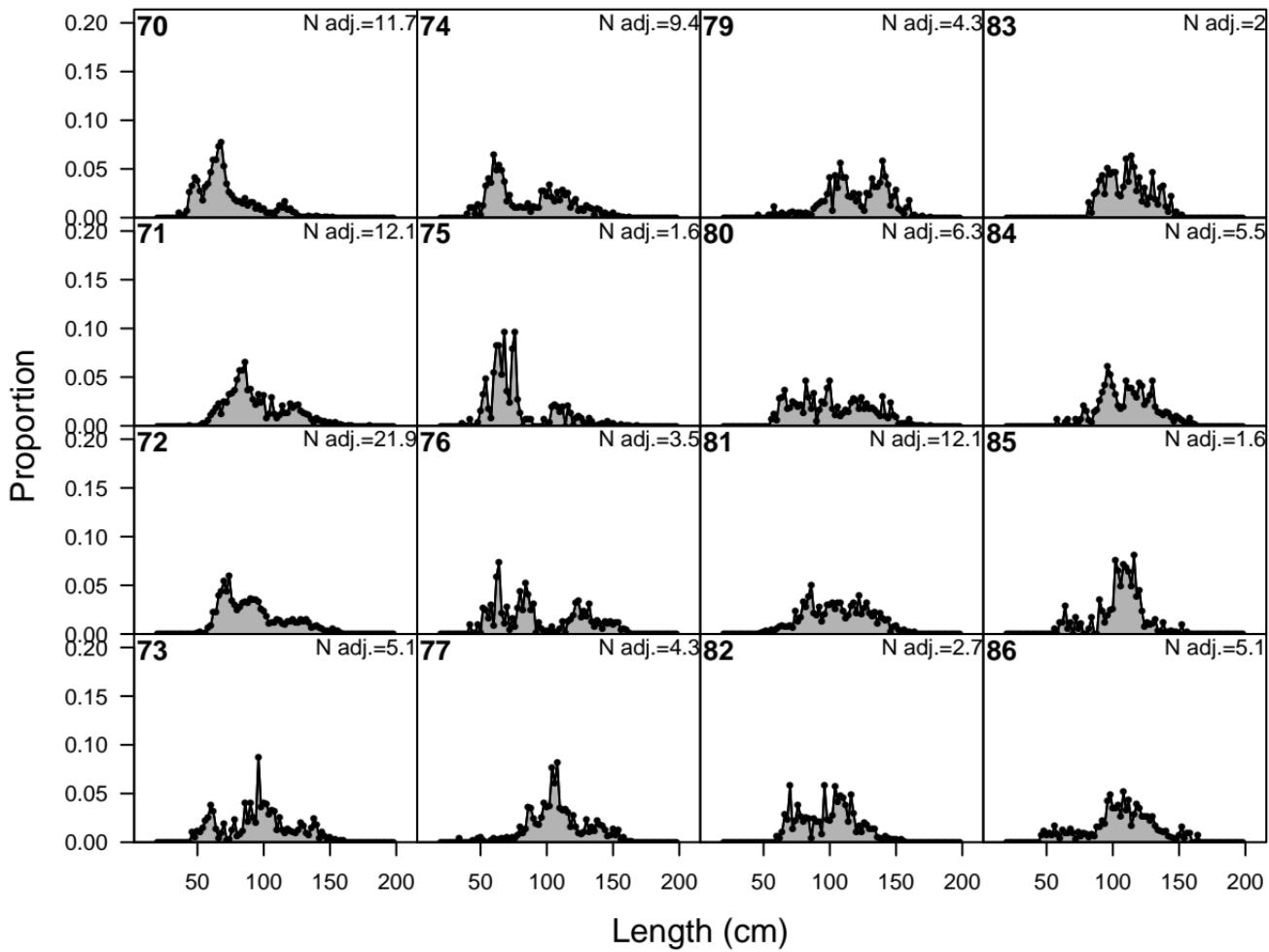


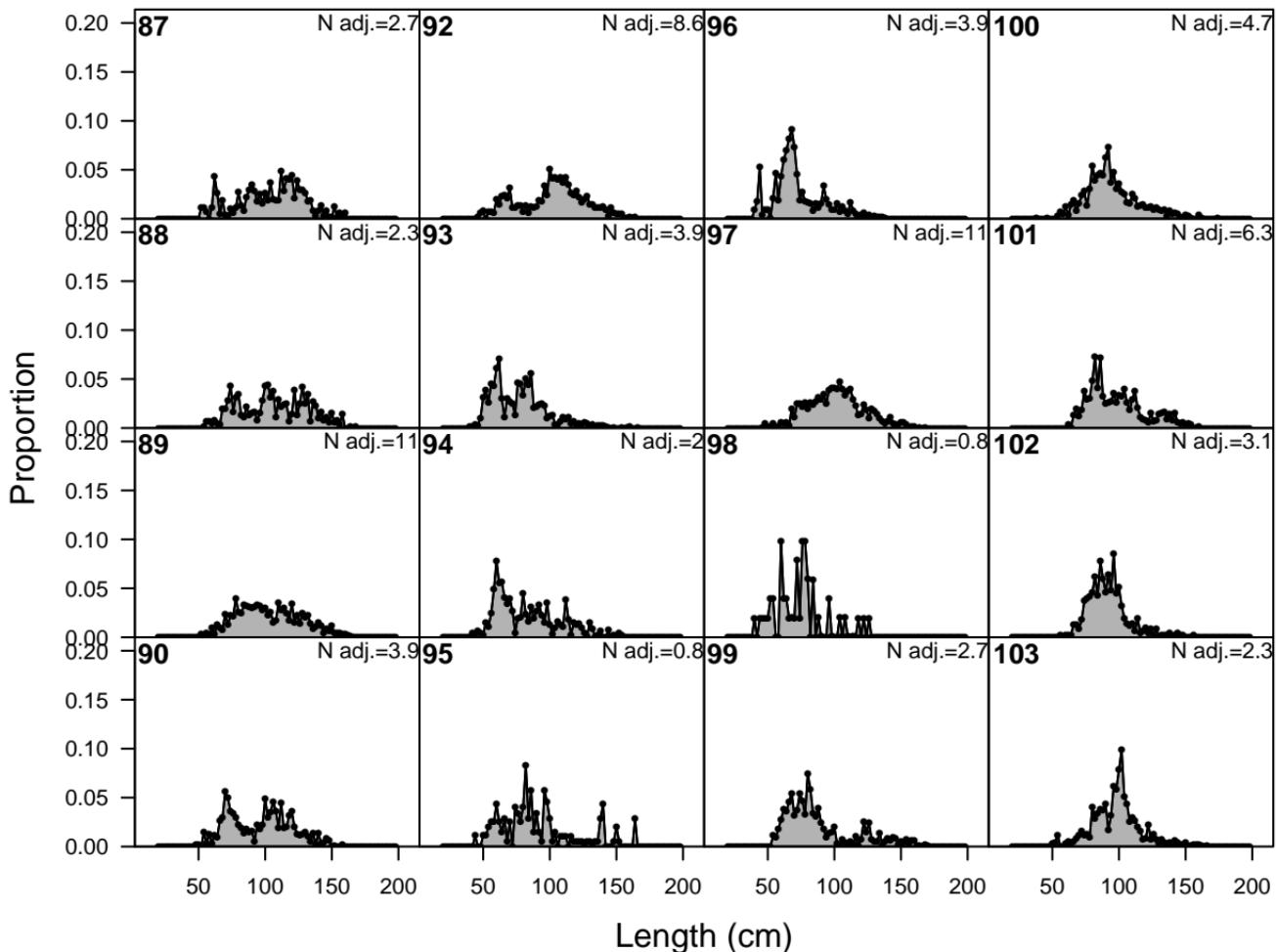
F18-DEL_C (whole catch)

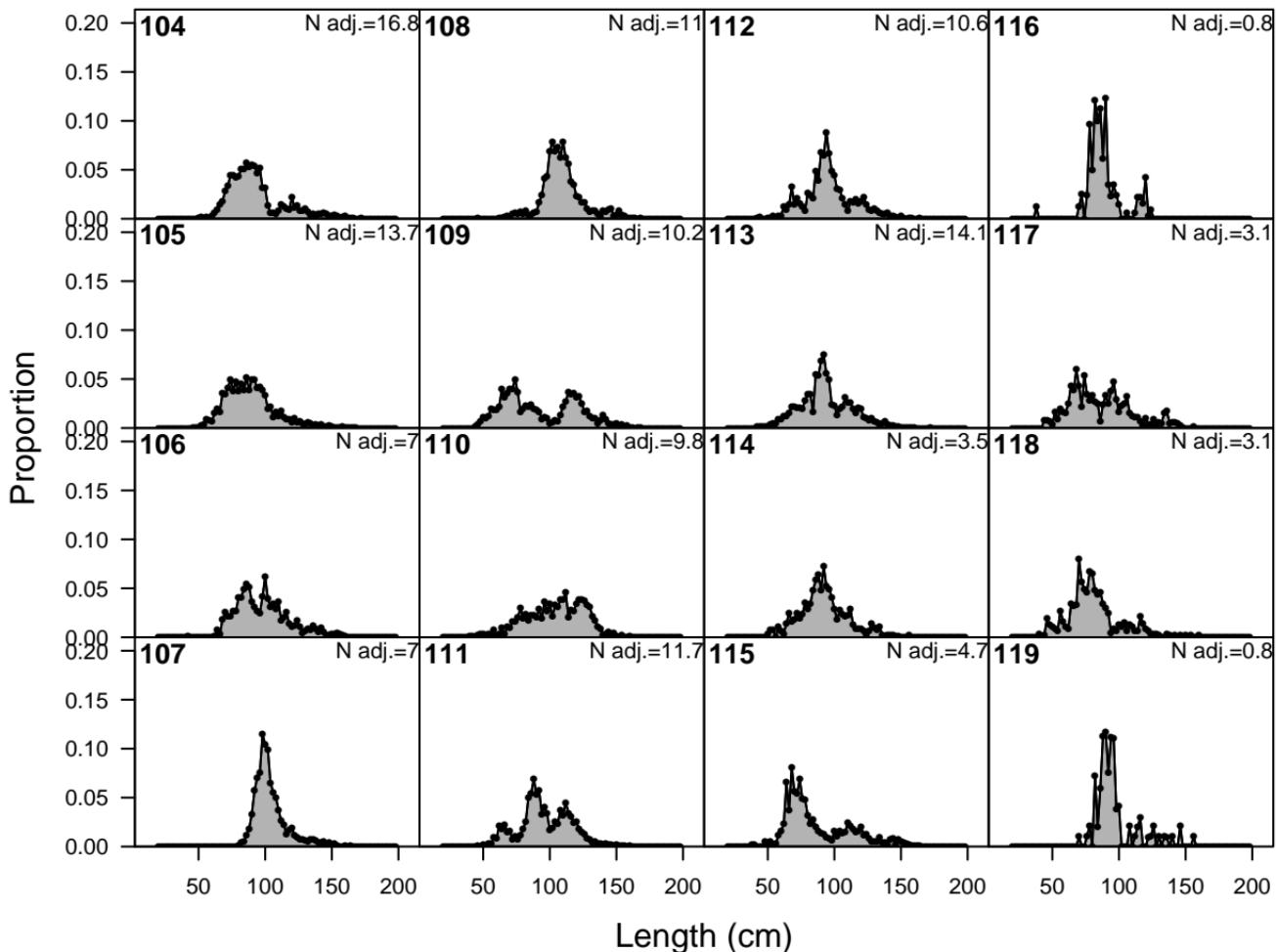


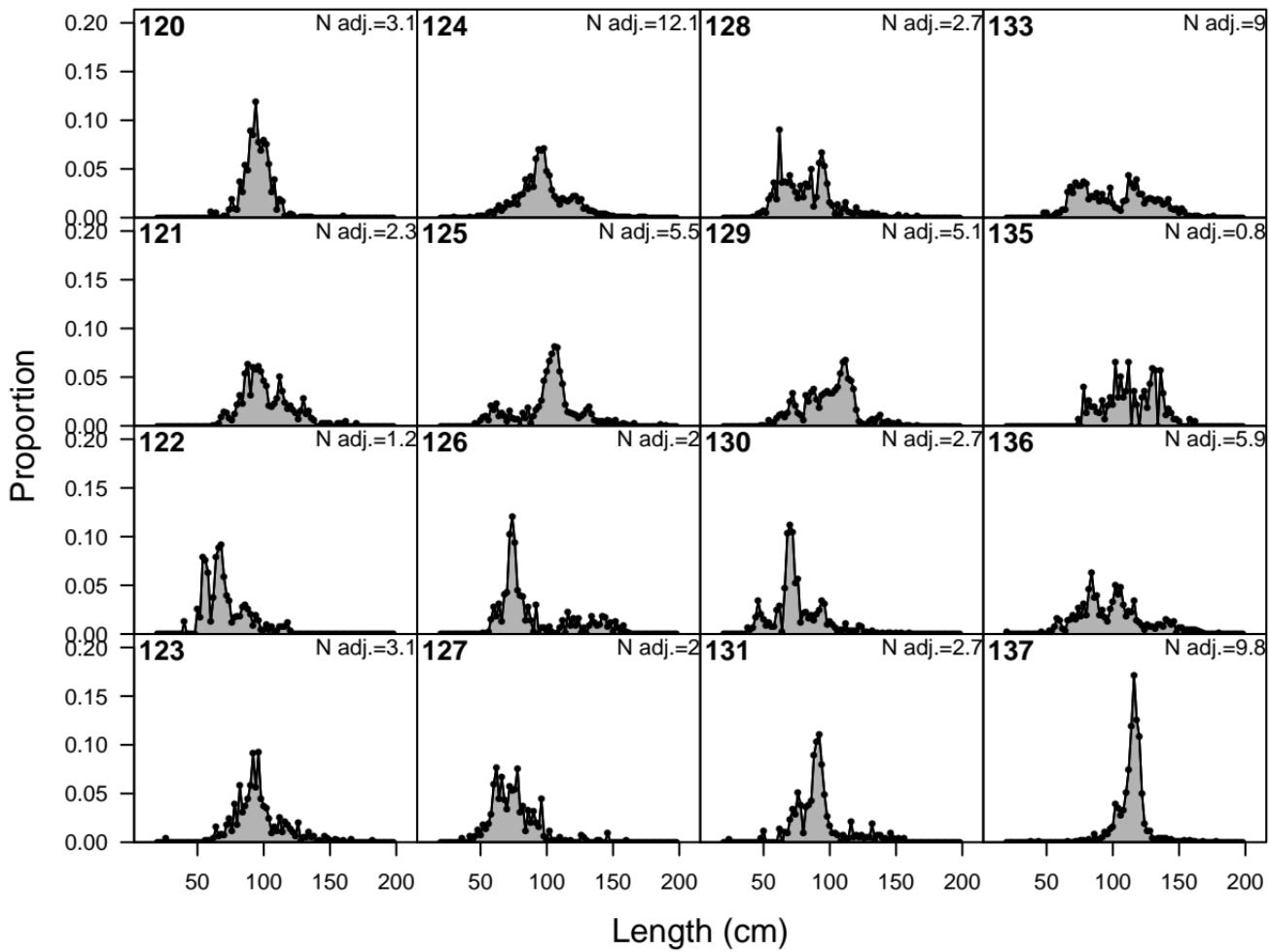


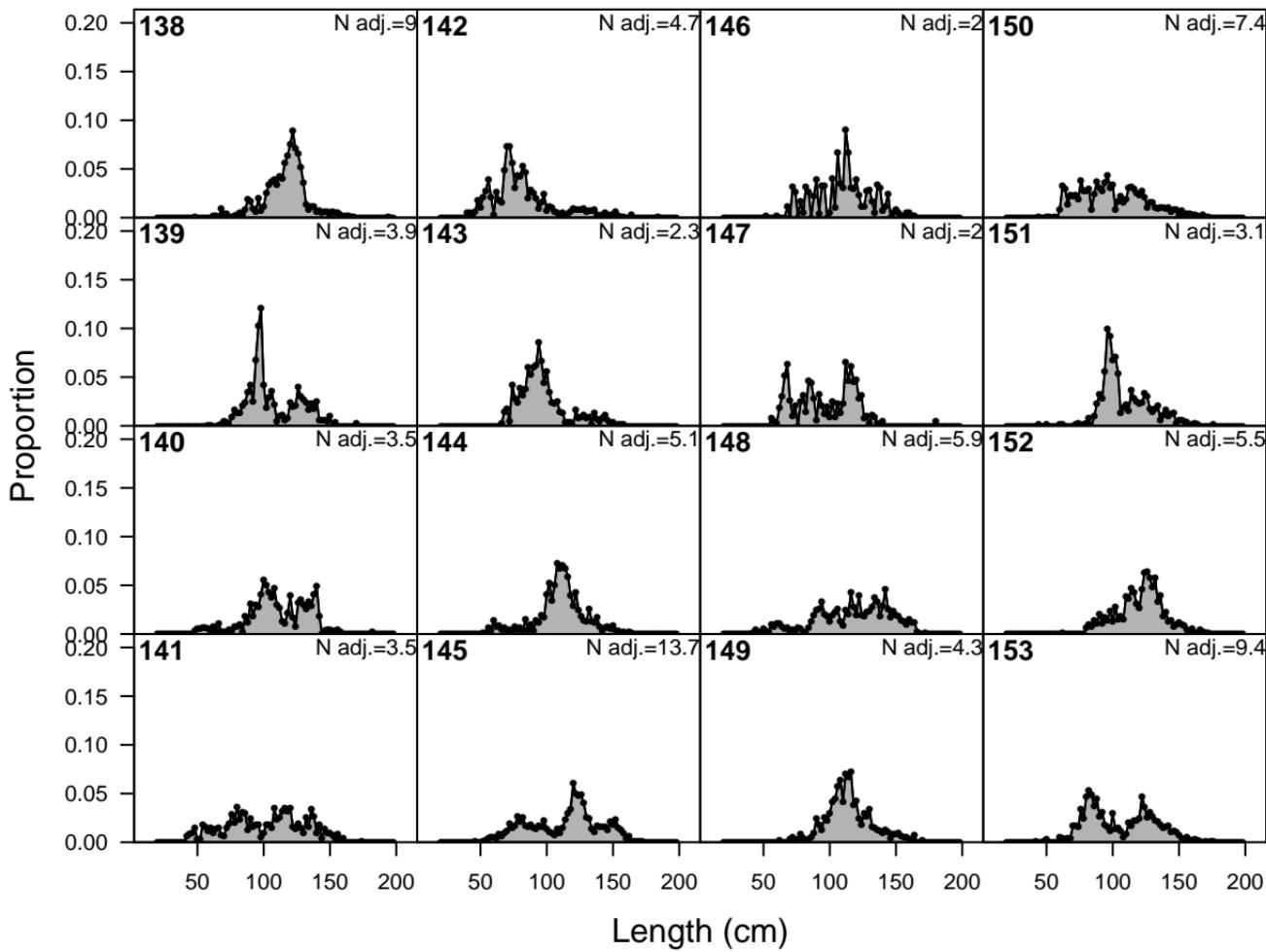


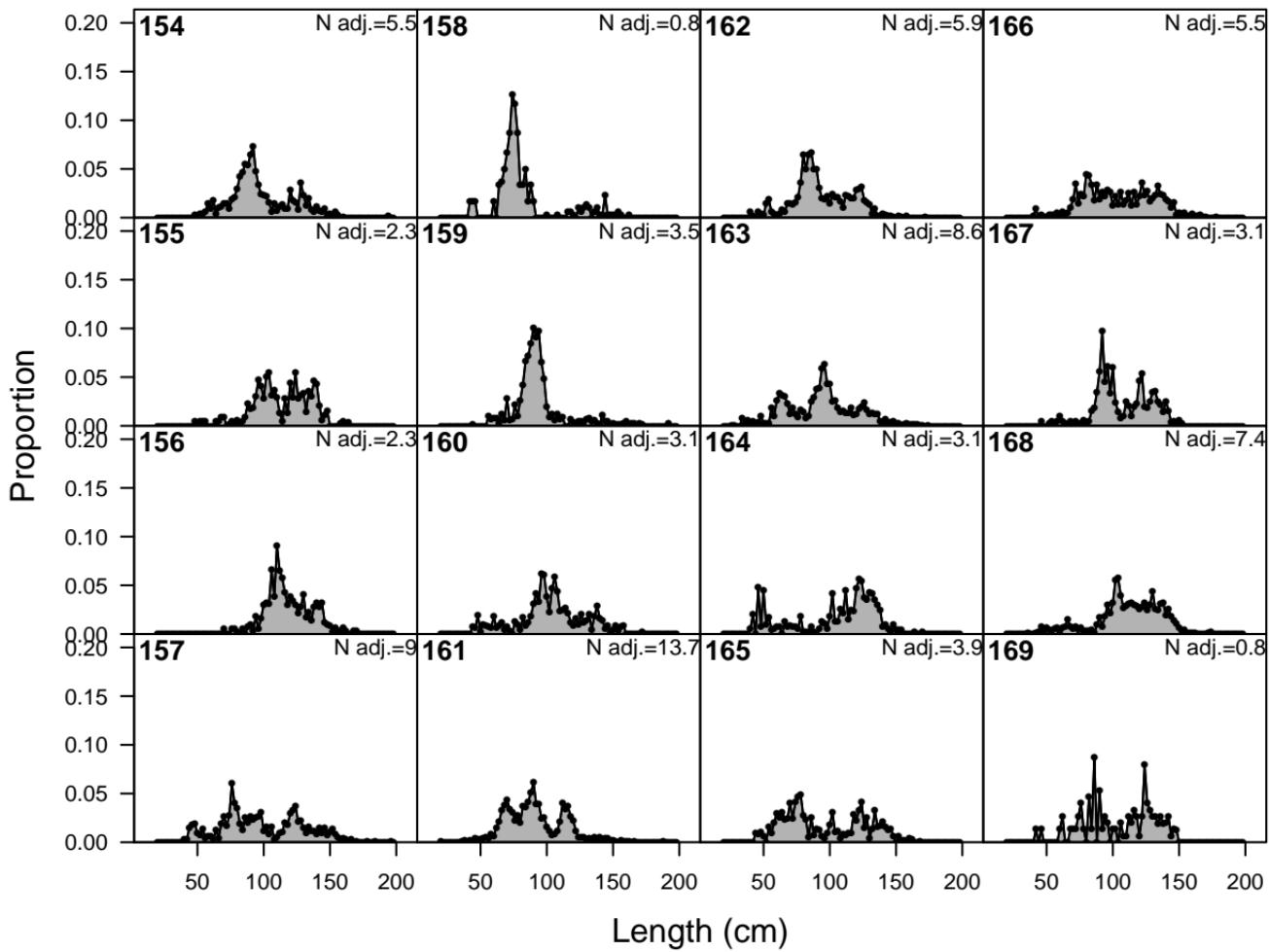


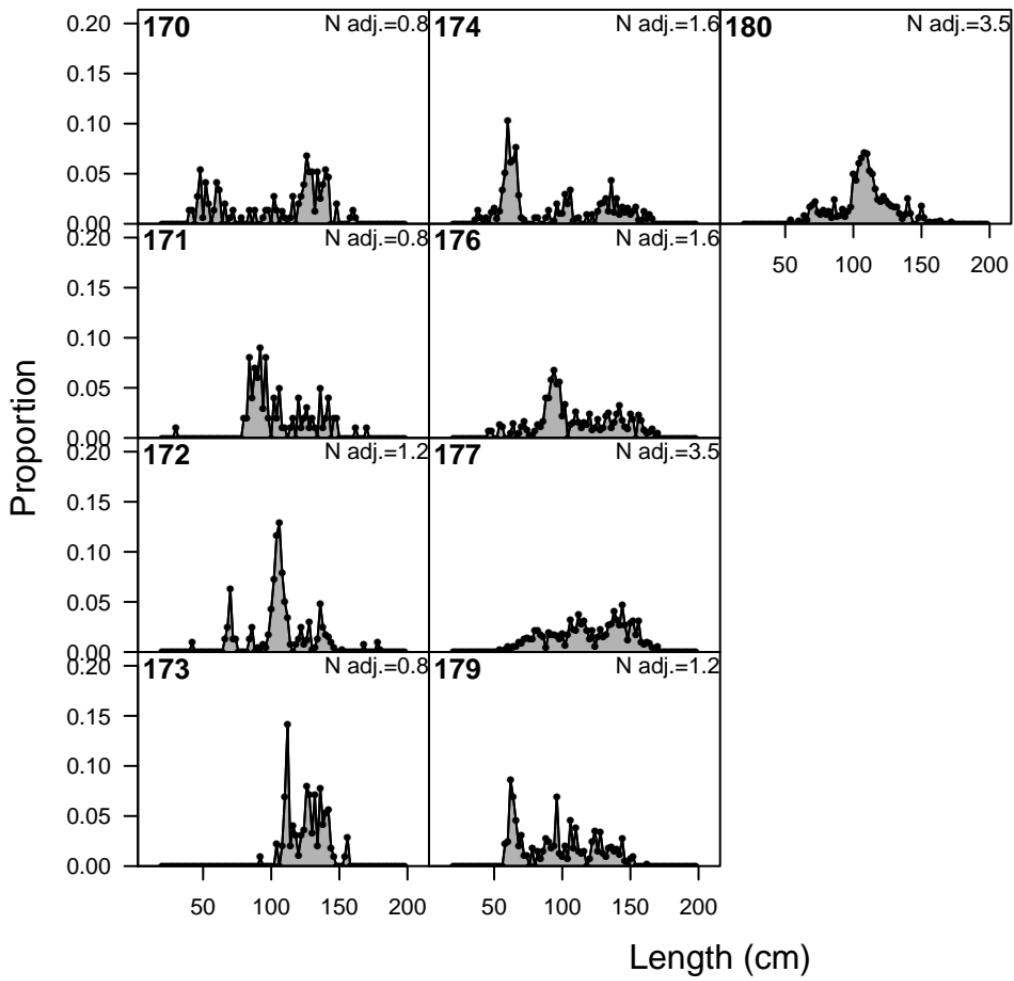


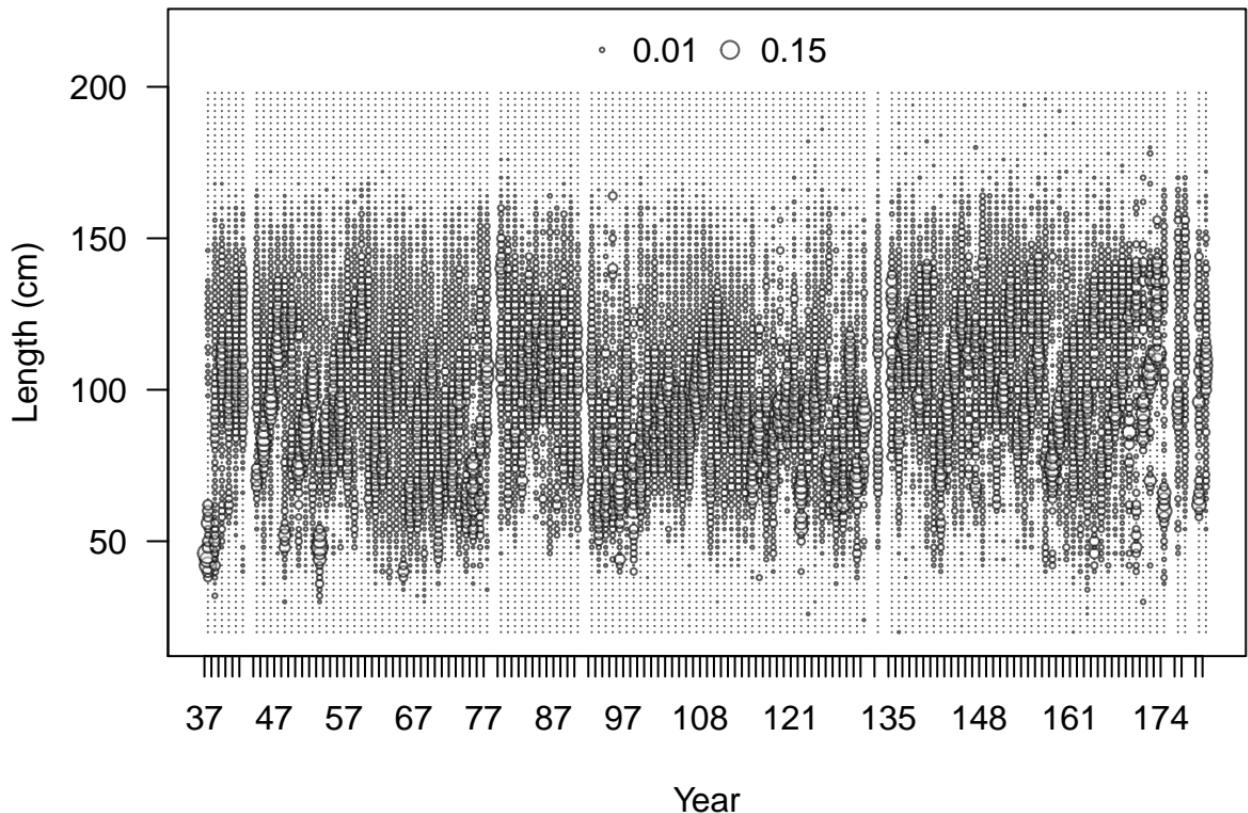




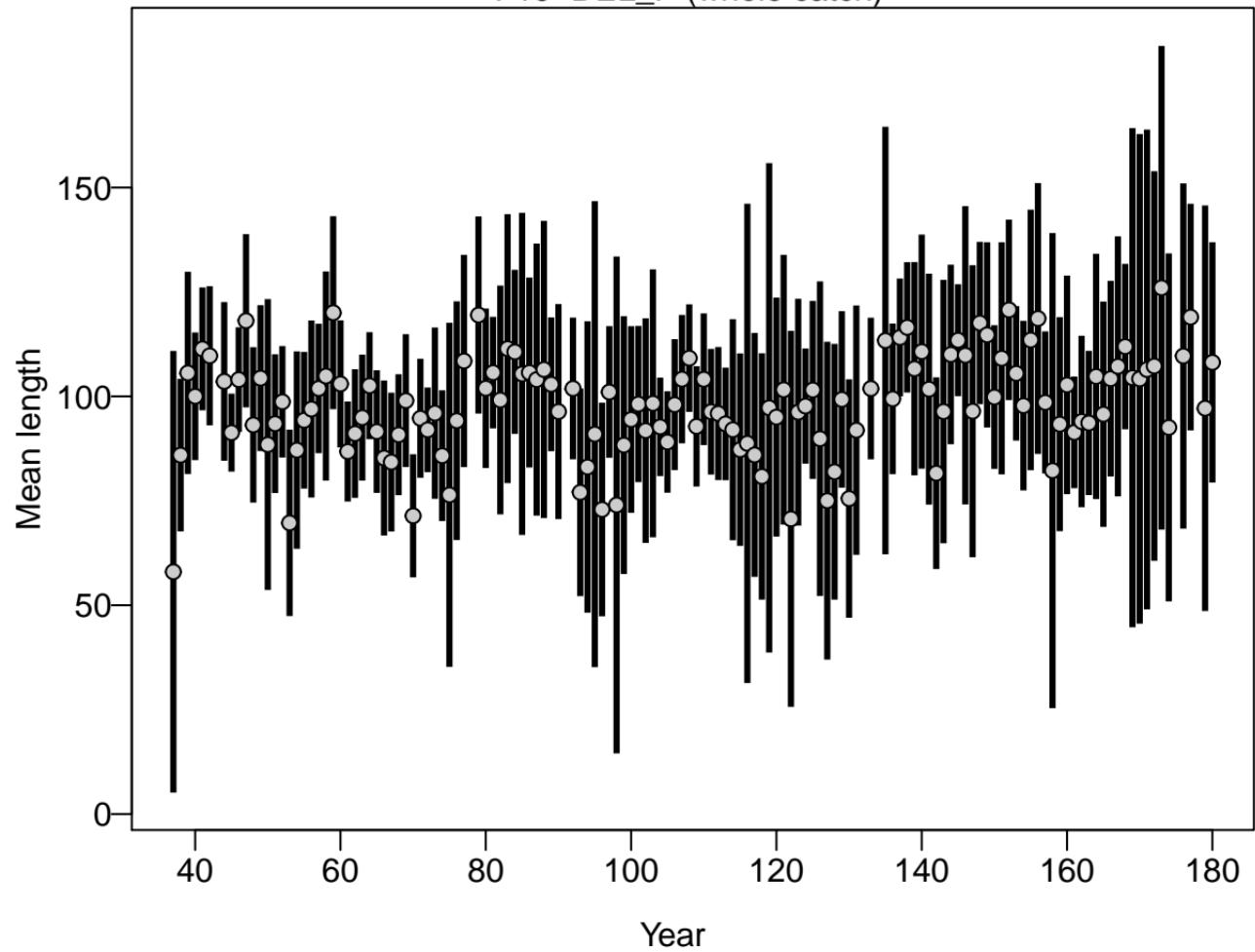




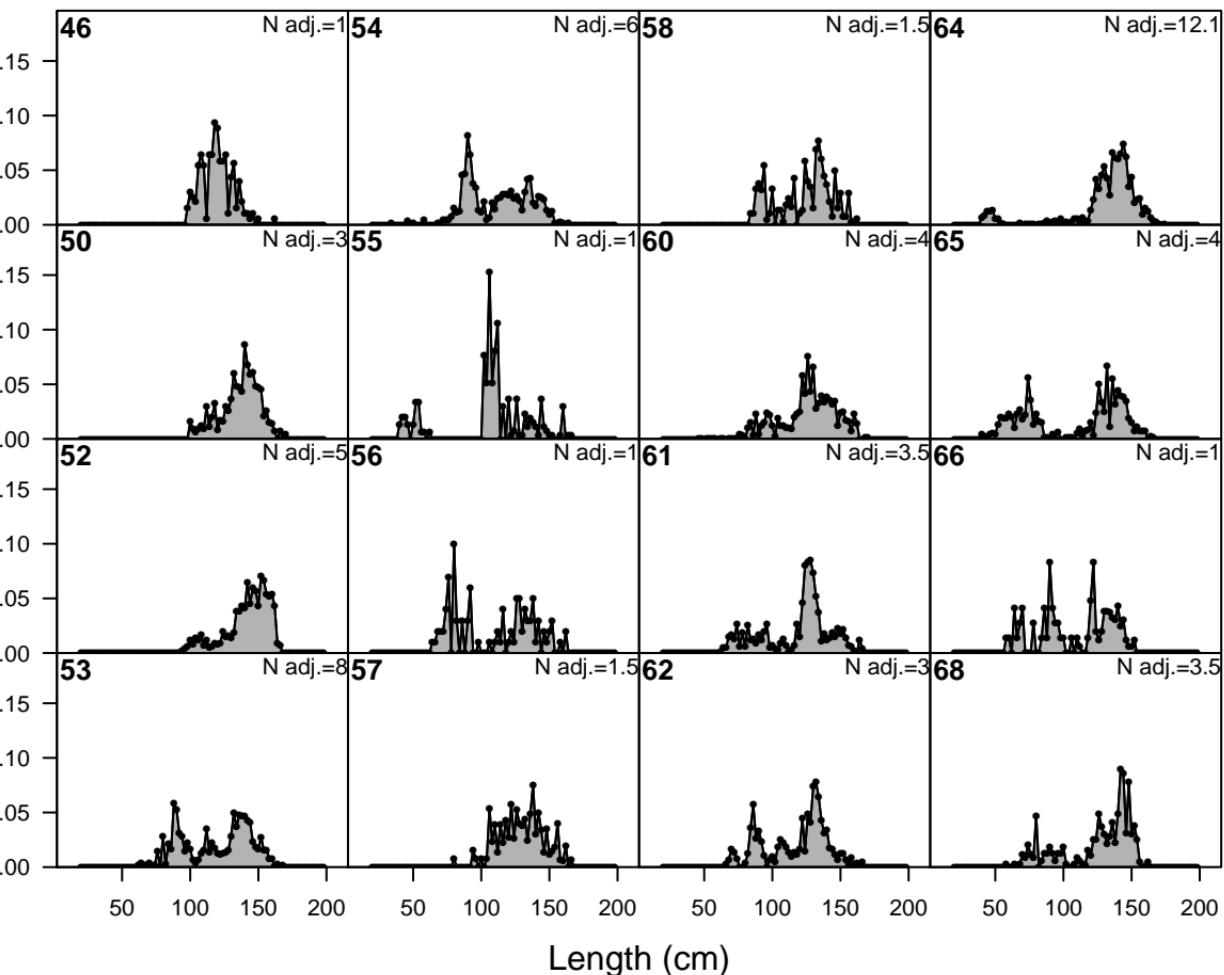




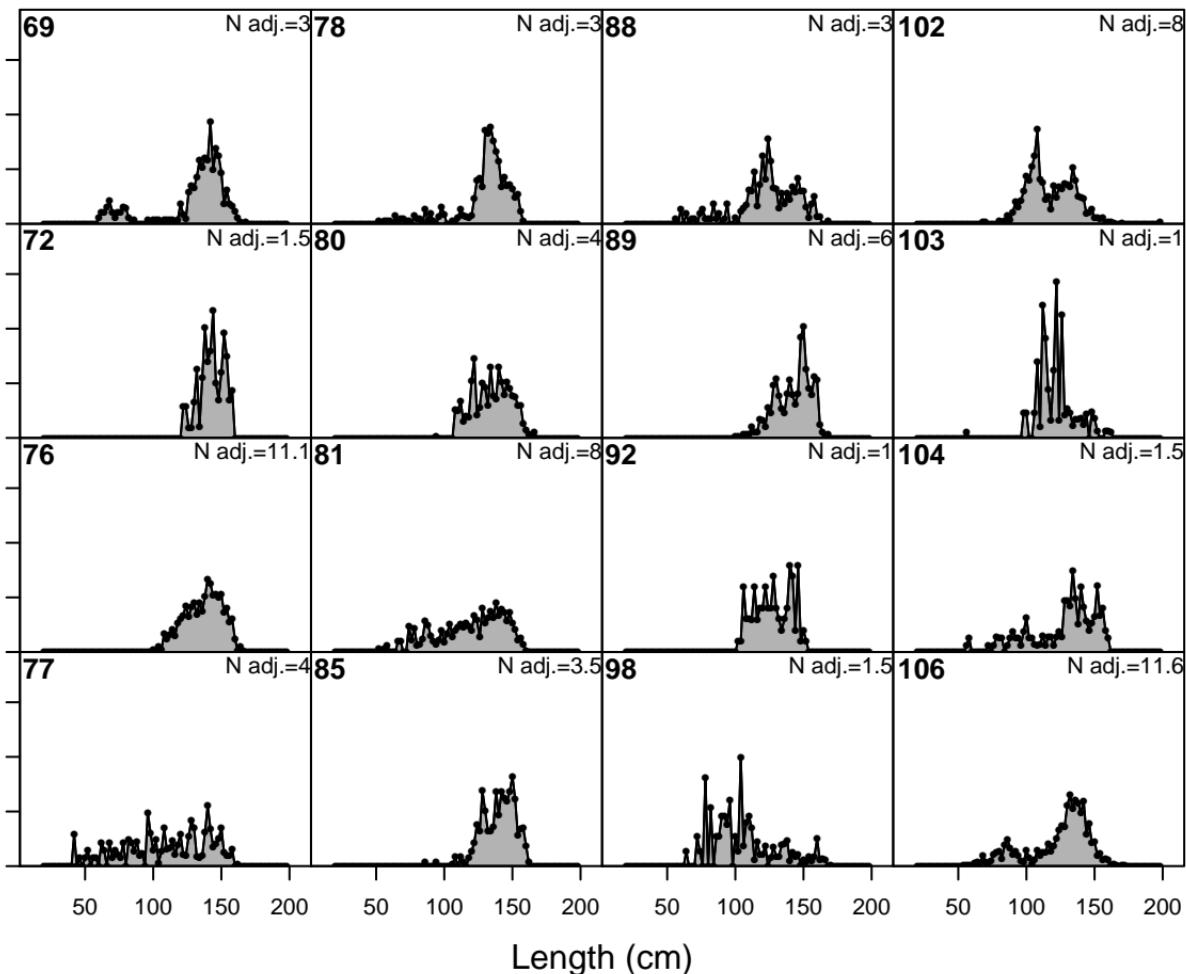
F19-DEL_P (whole catch)



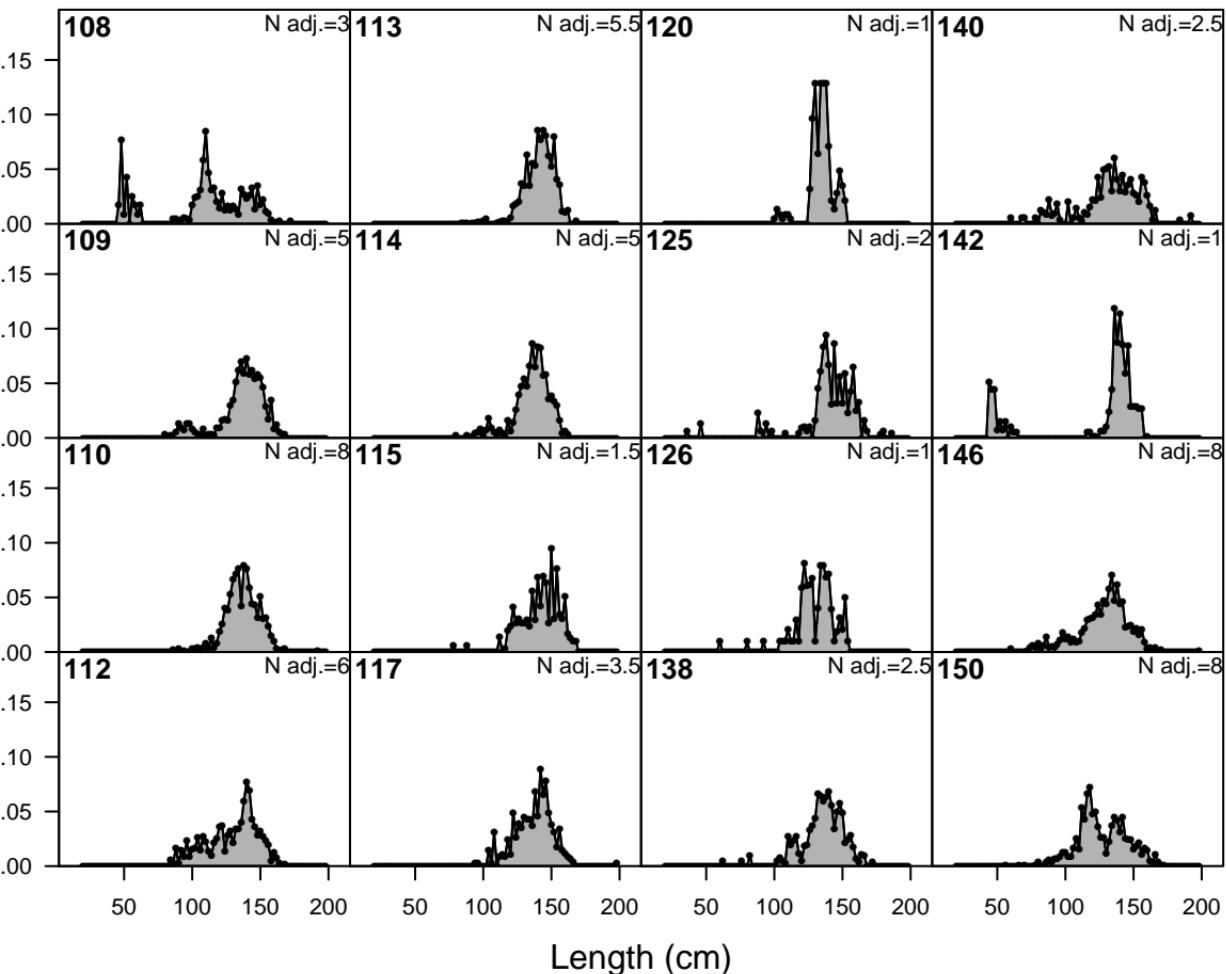
Proportion



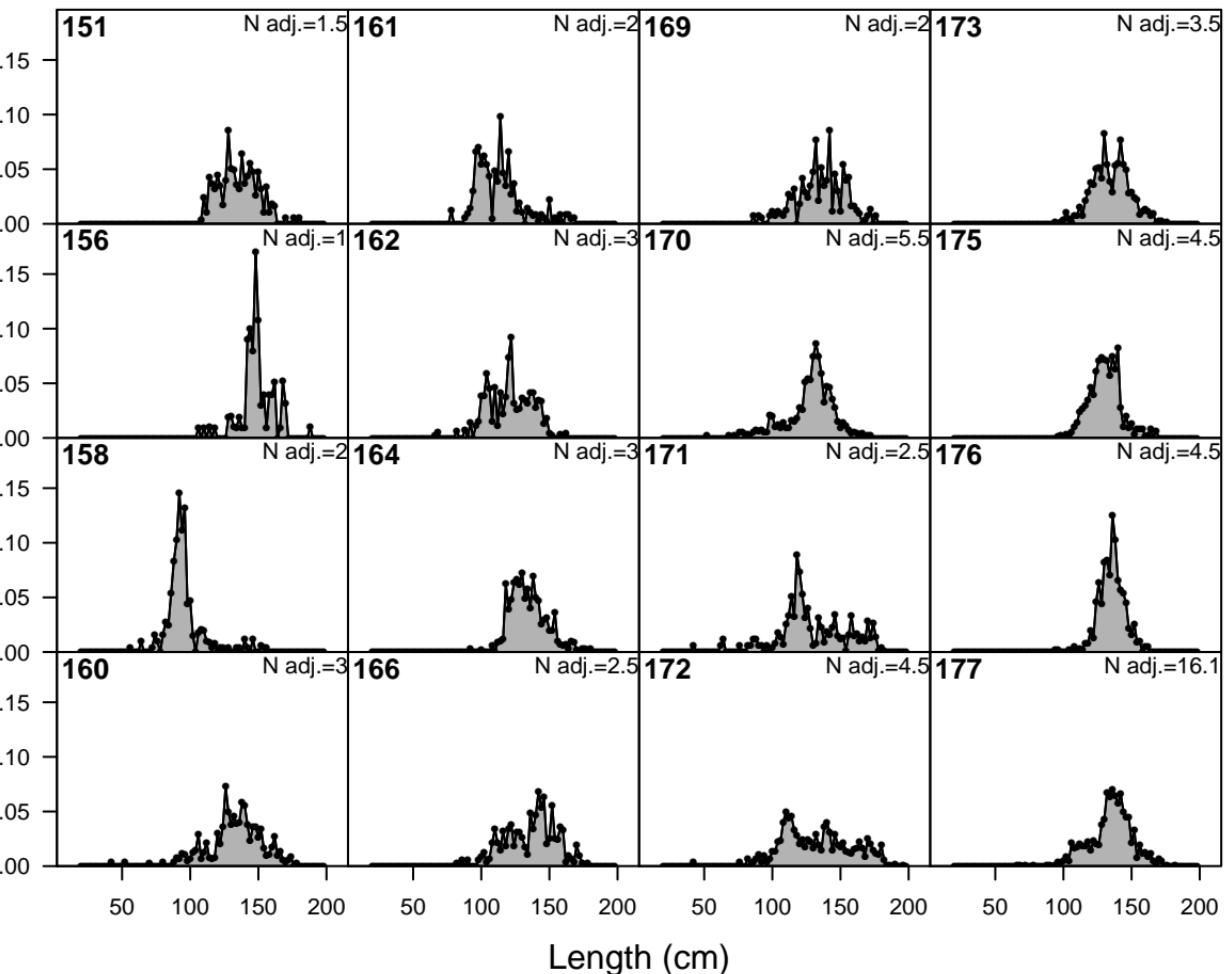
Proportion



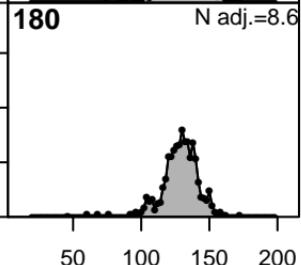
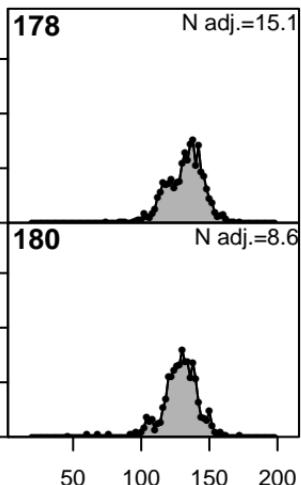
Proportion



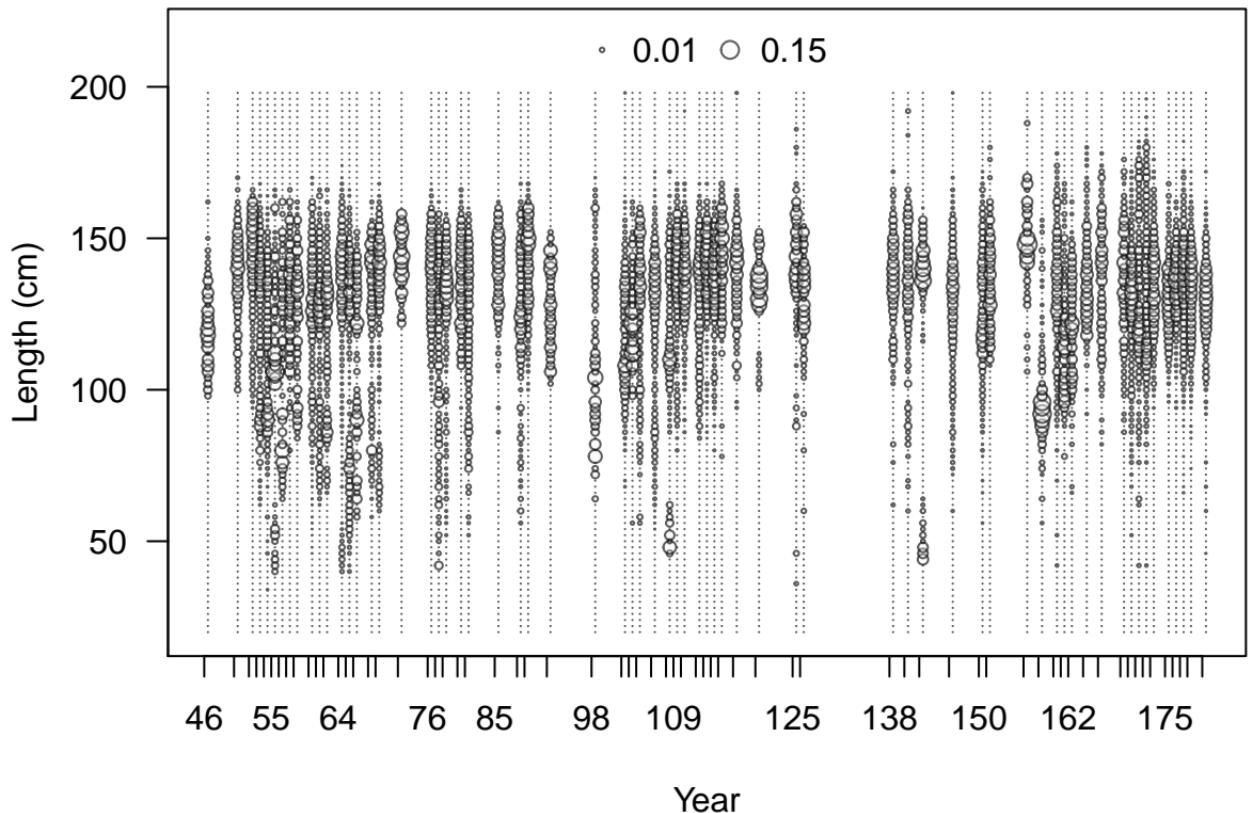
Proportion



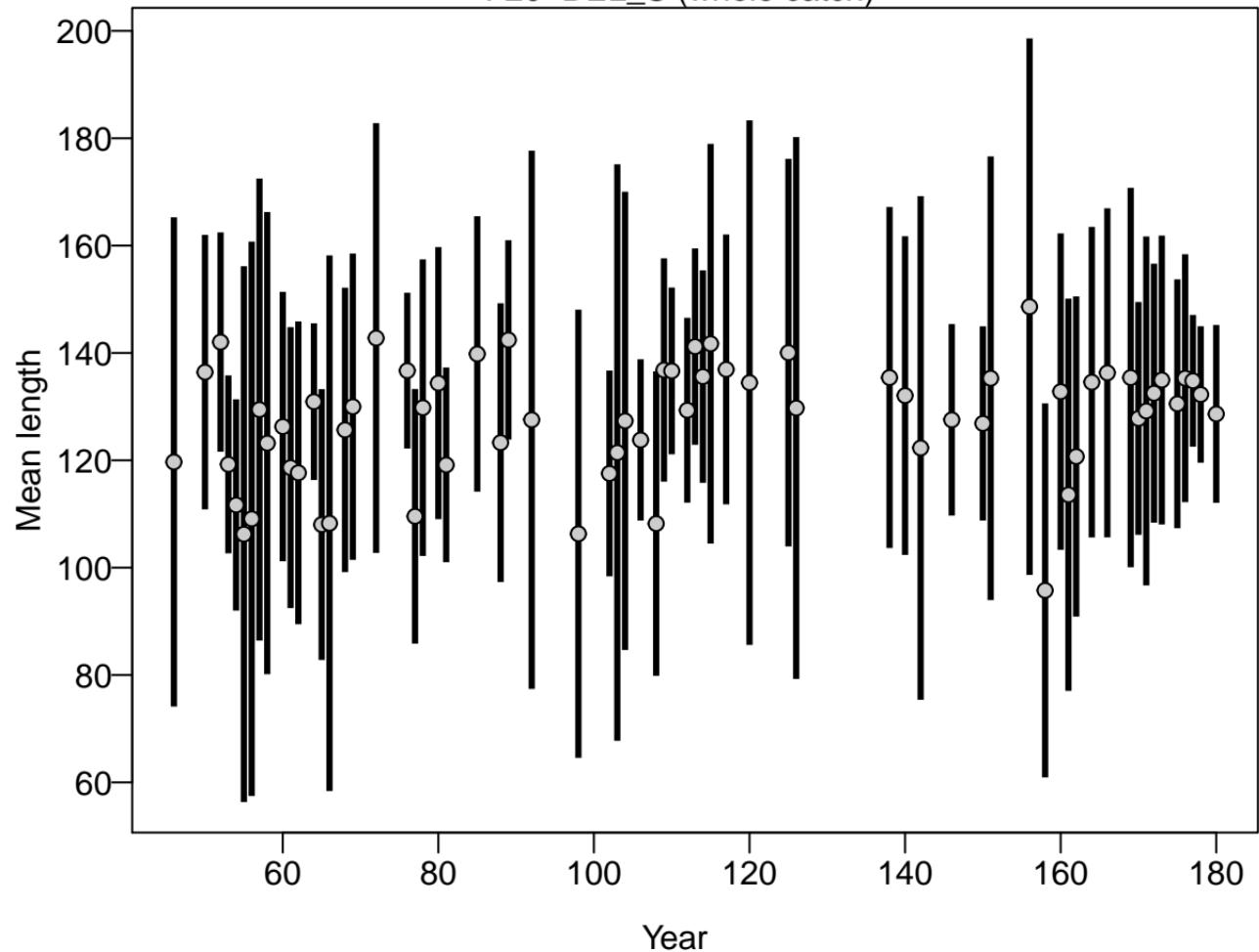
Proportion

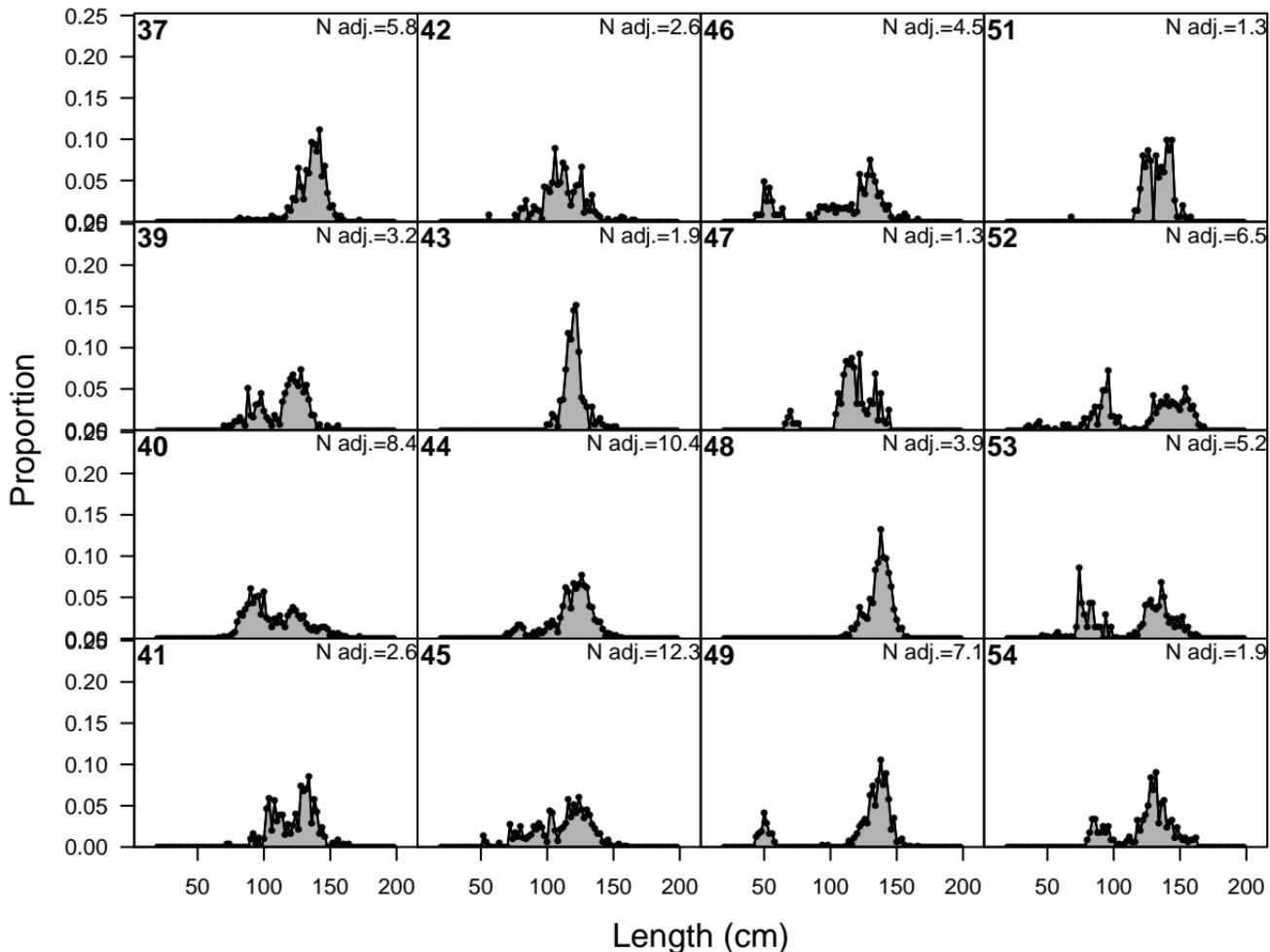


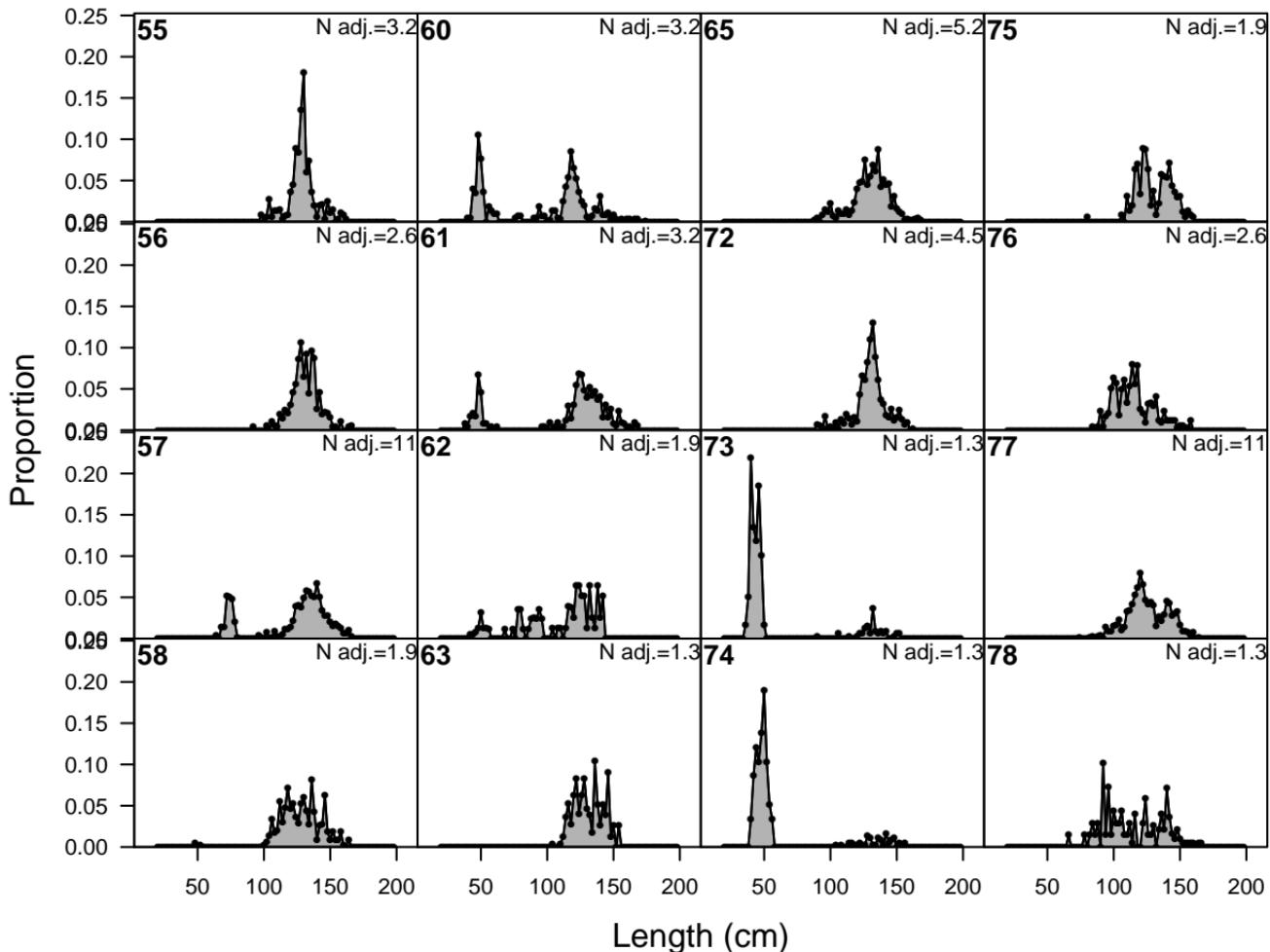
Length (cm)

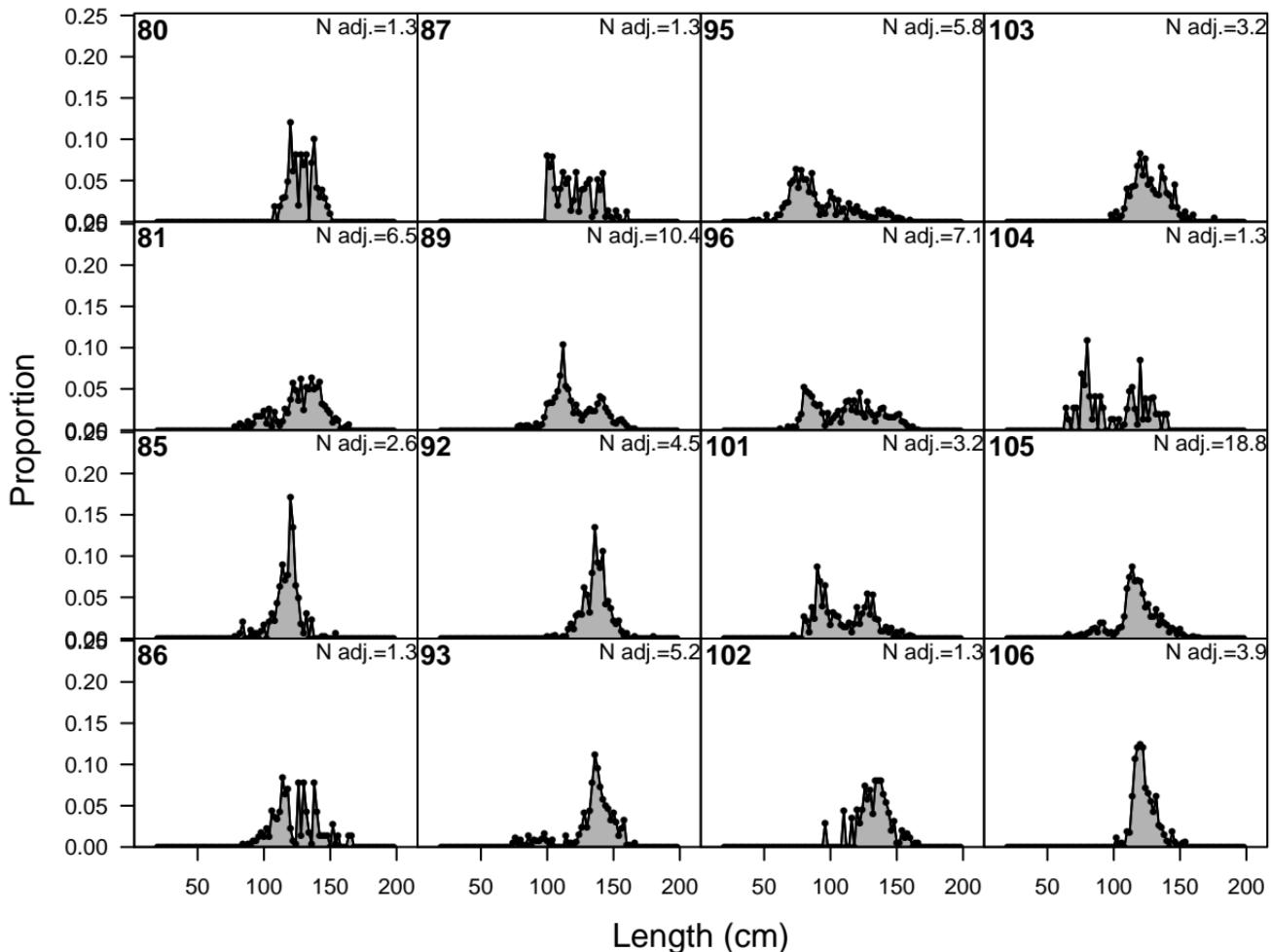


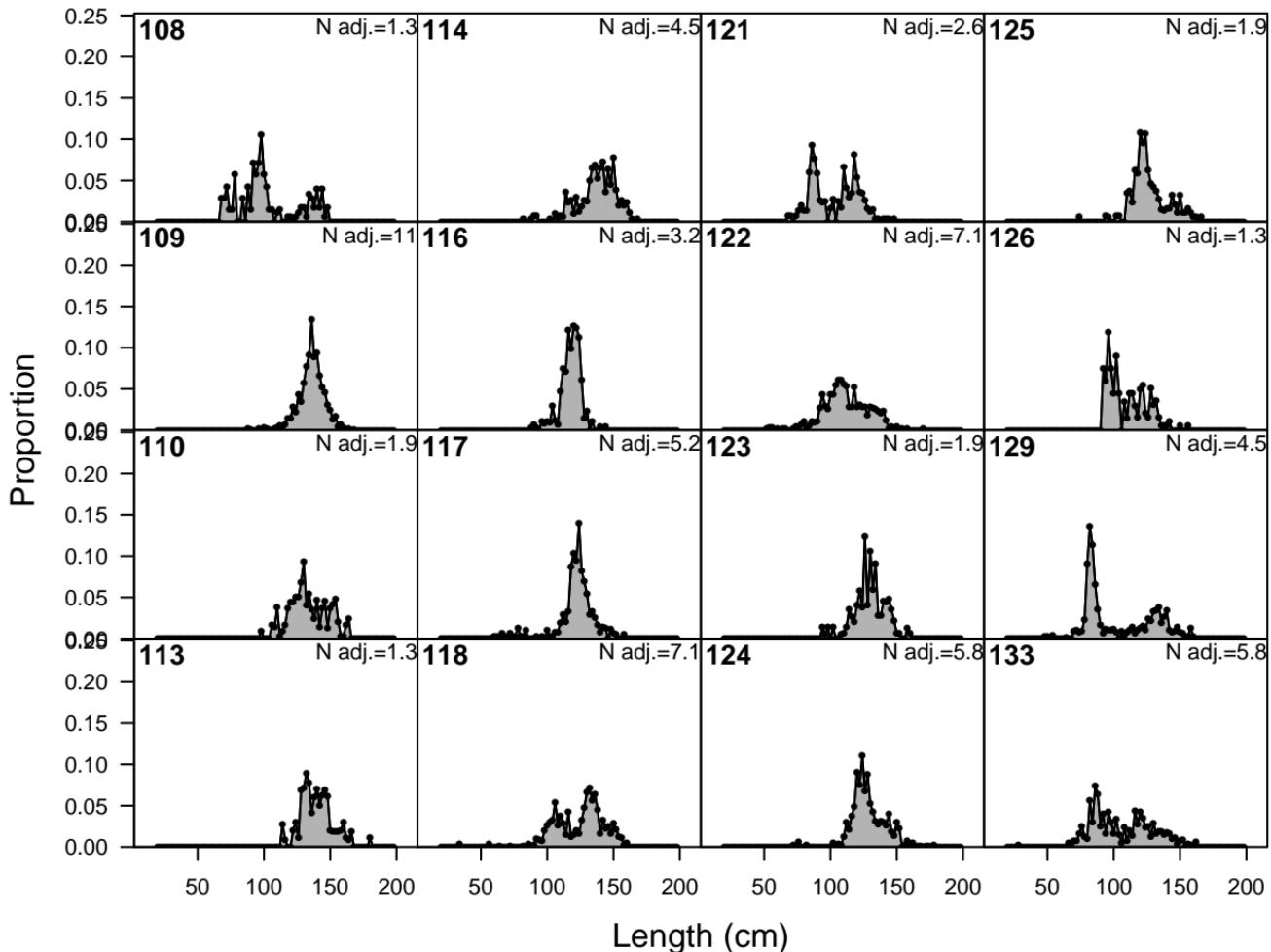
F20-DEL_S (whole catch)

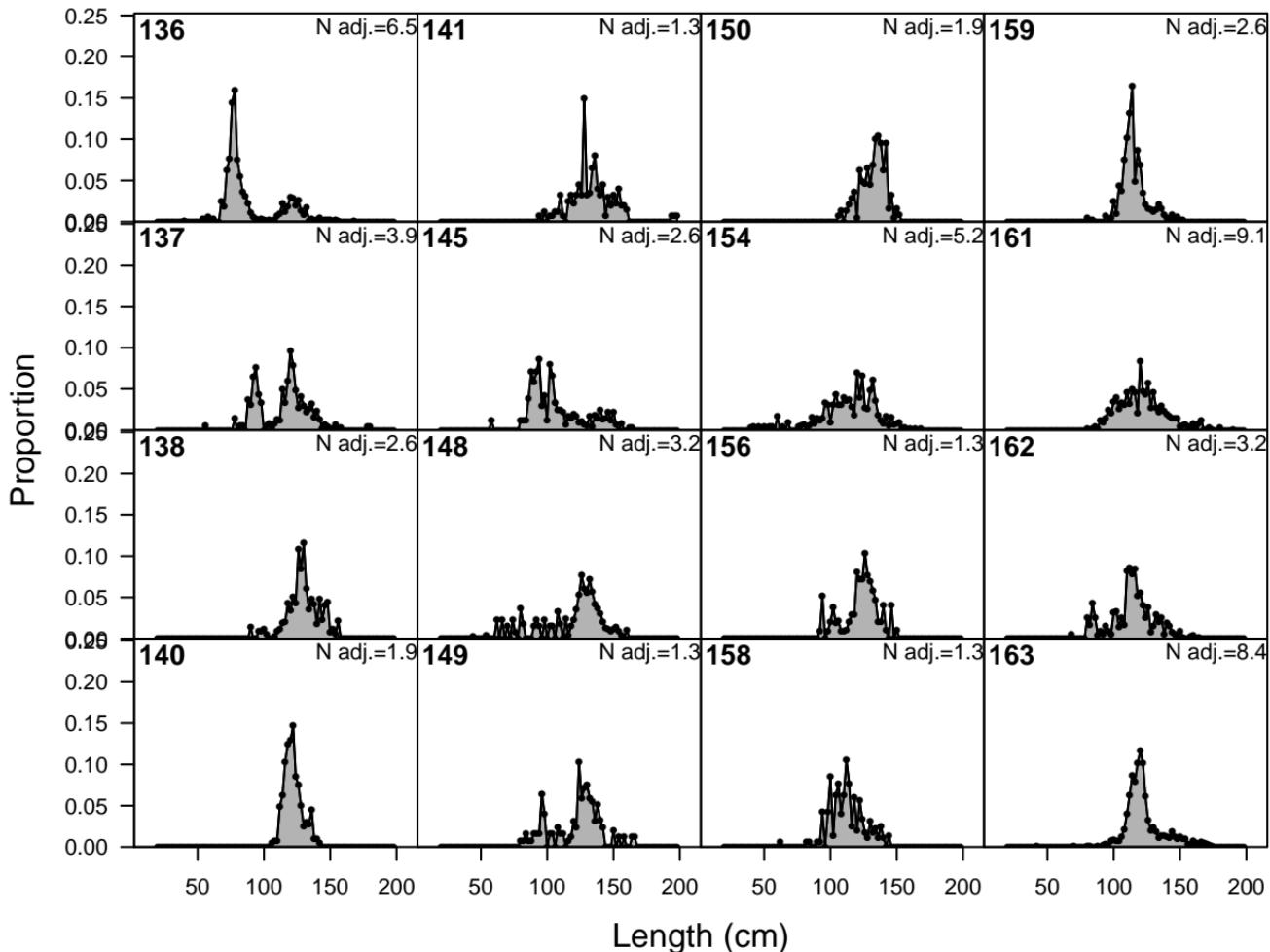


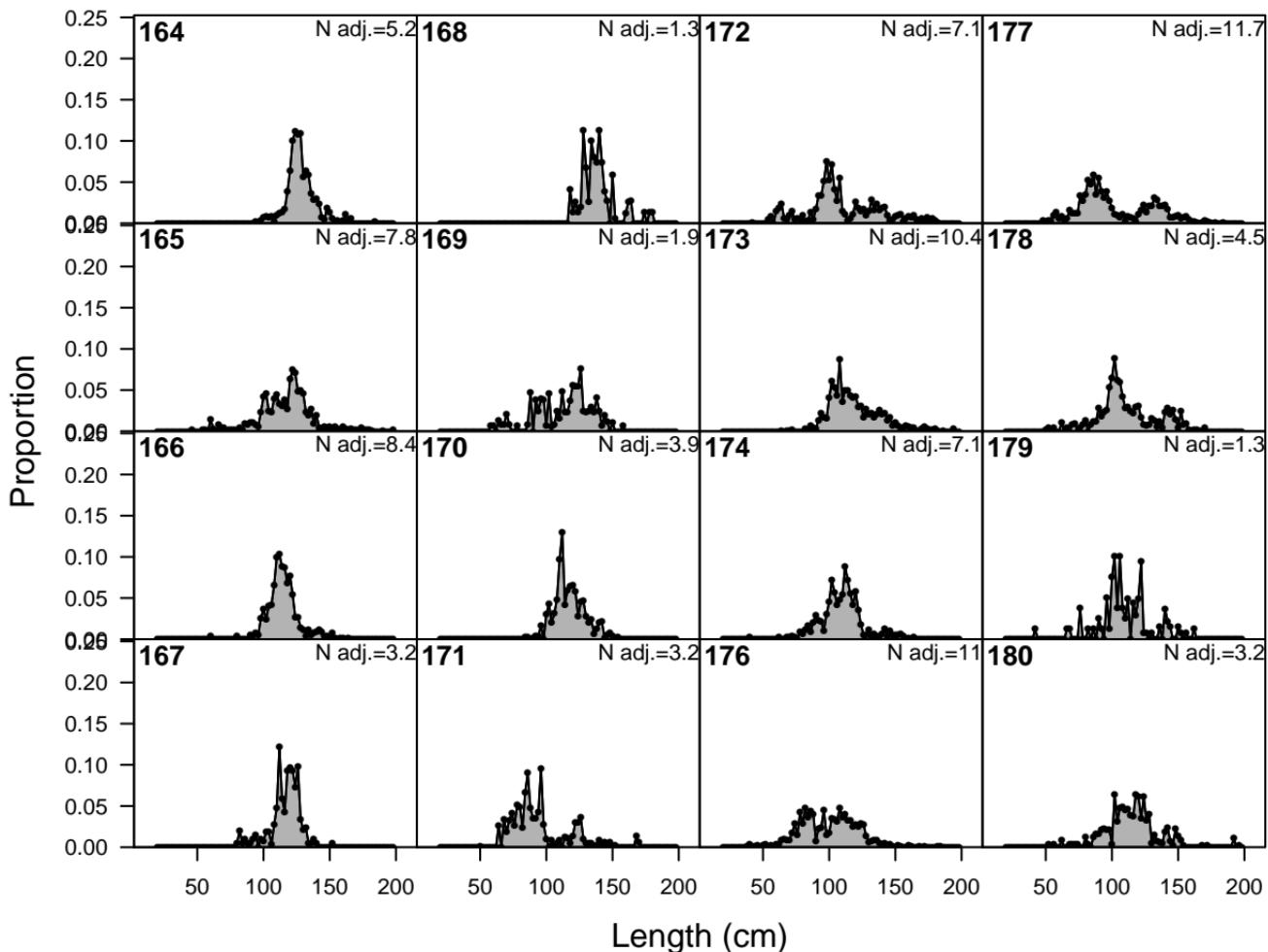


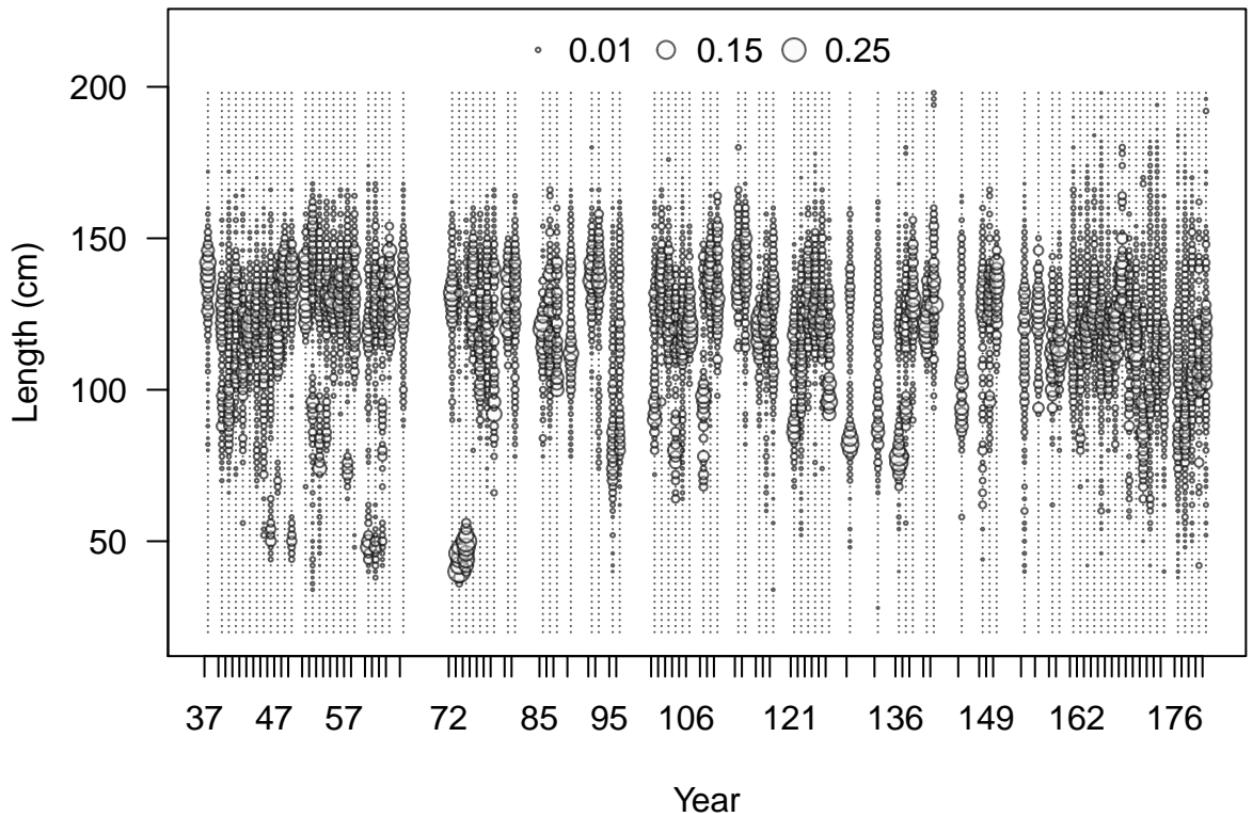




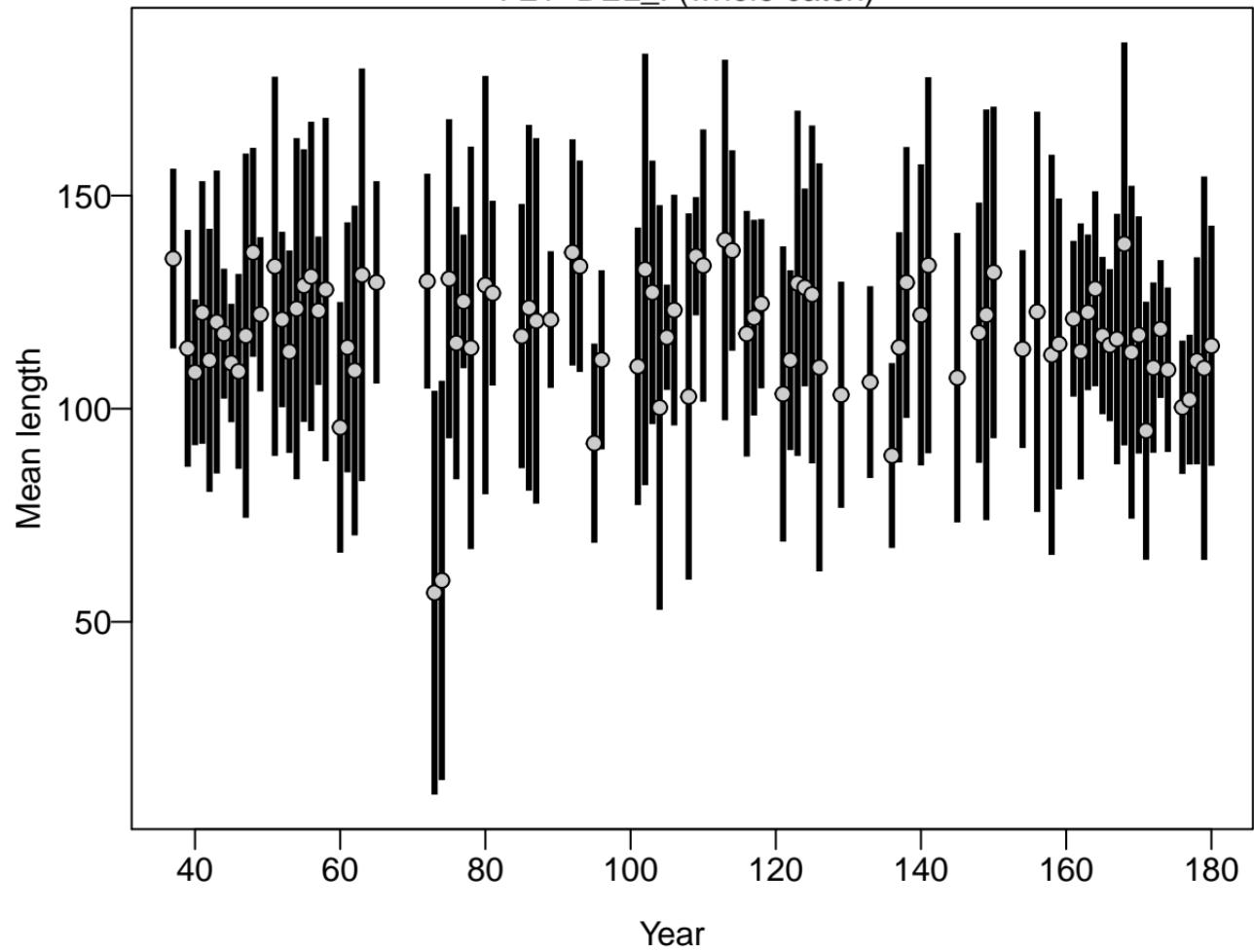


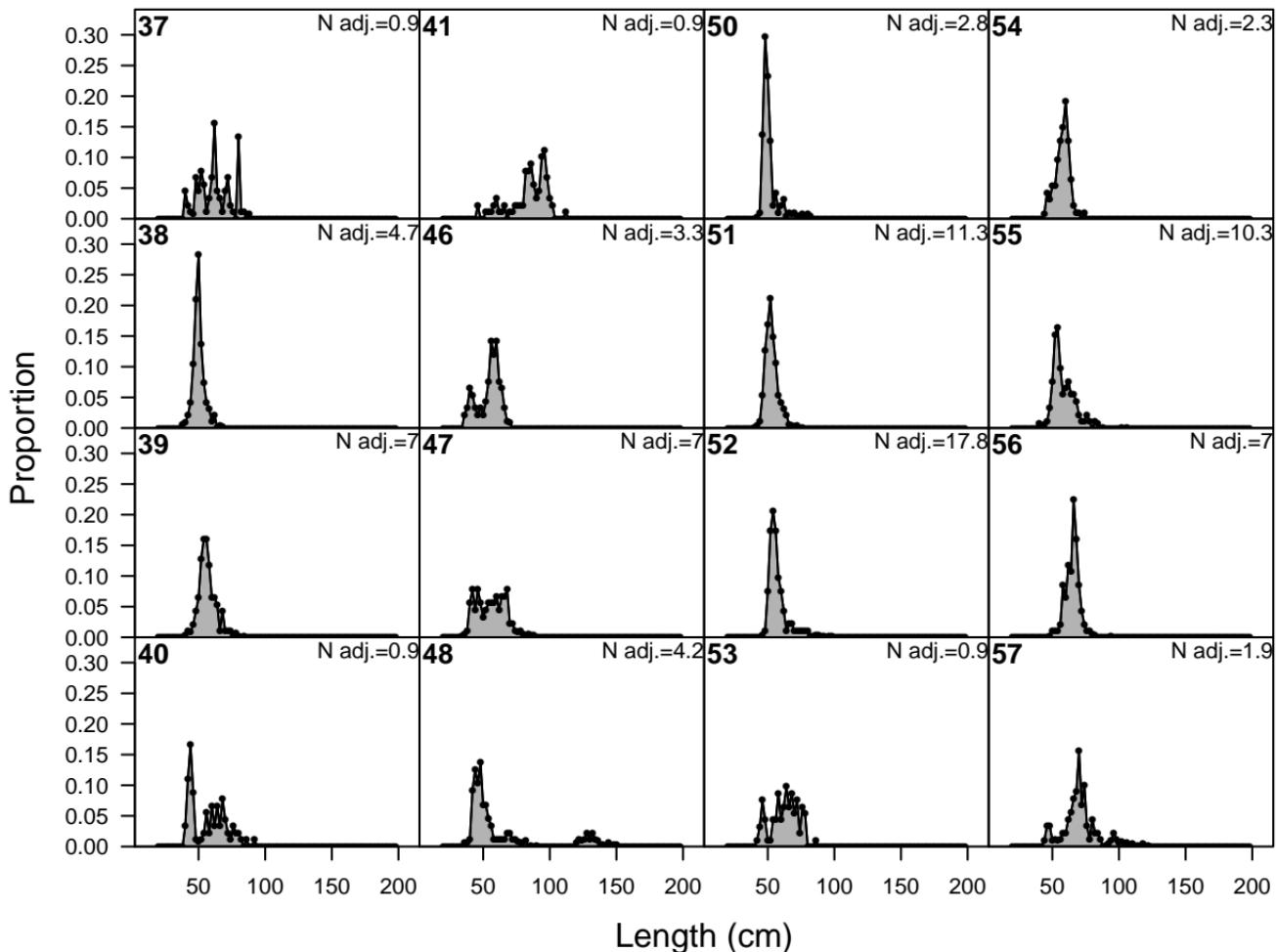




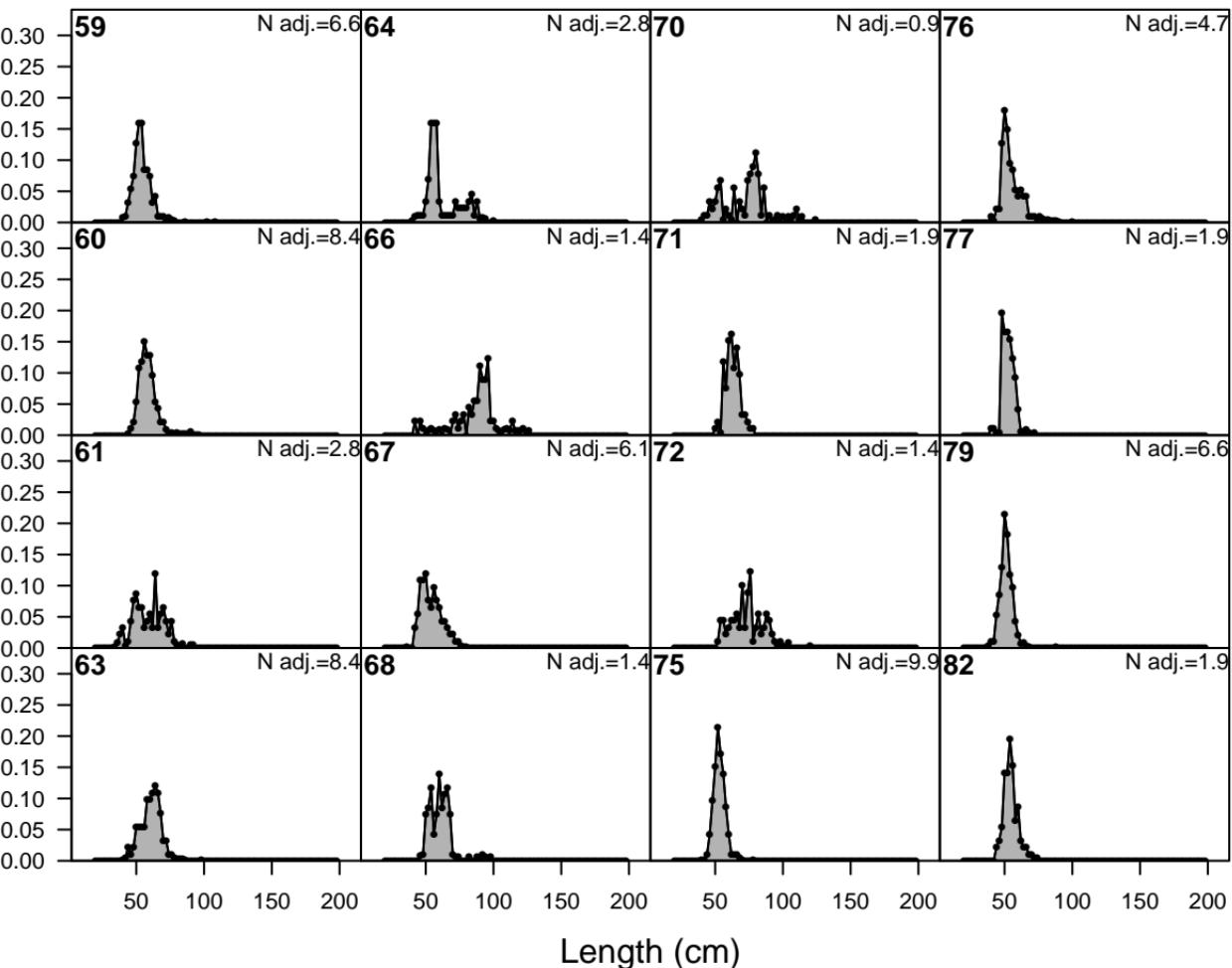


F21-DEL_I (whole catch)

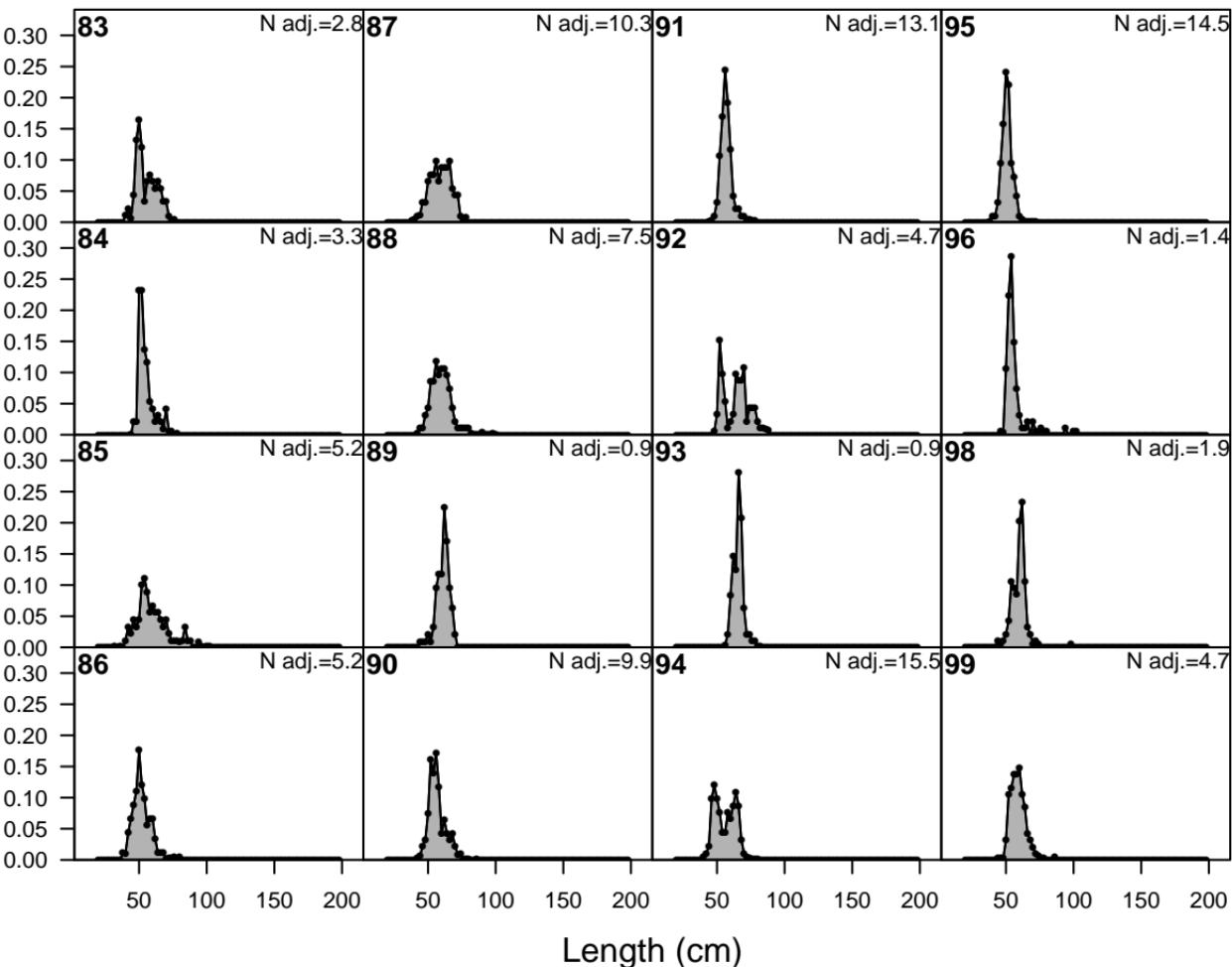




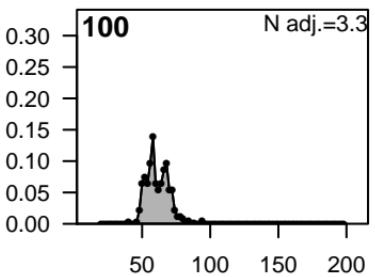
Proportion

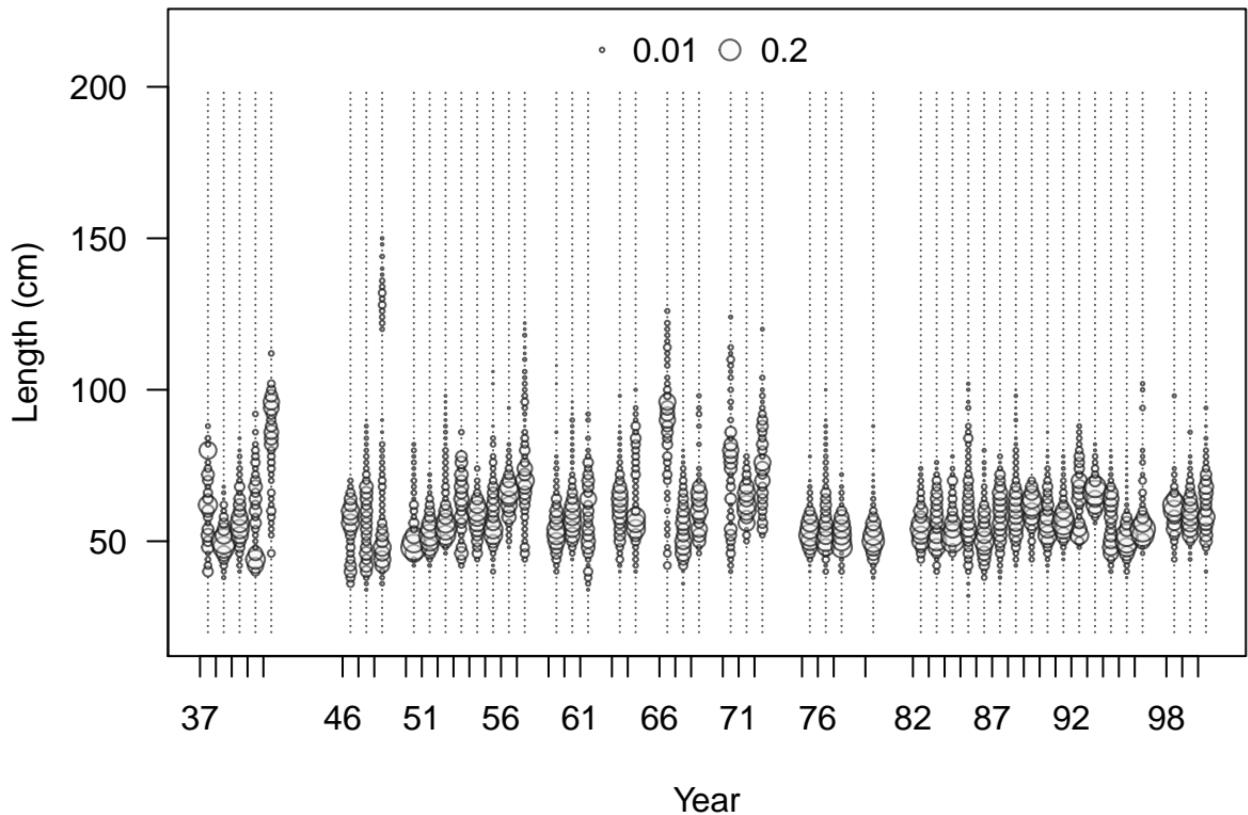


Proportion

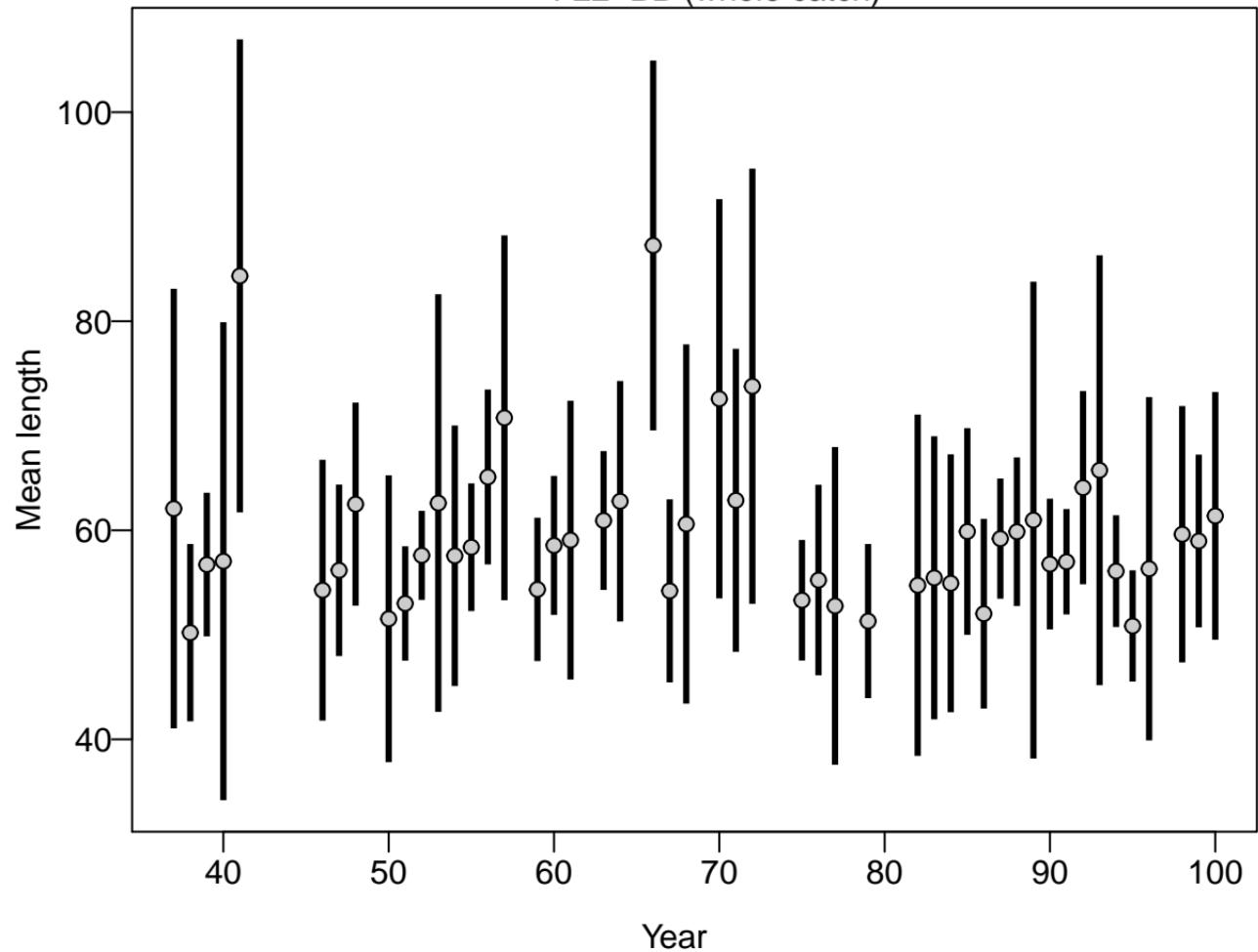


Proportion

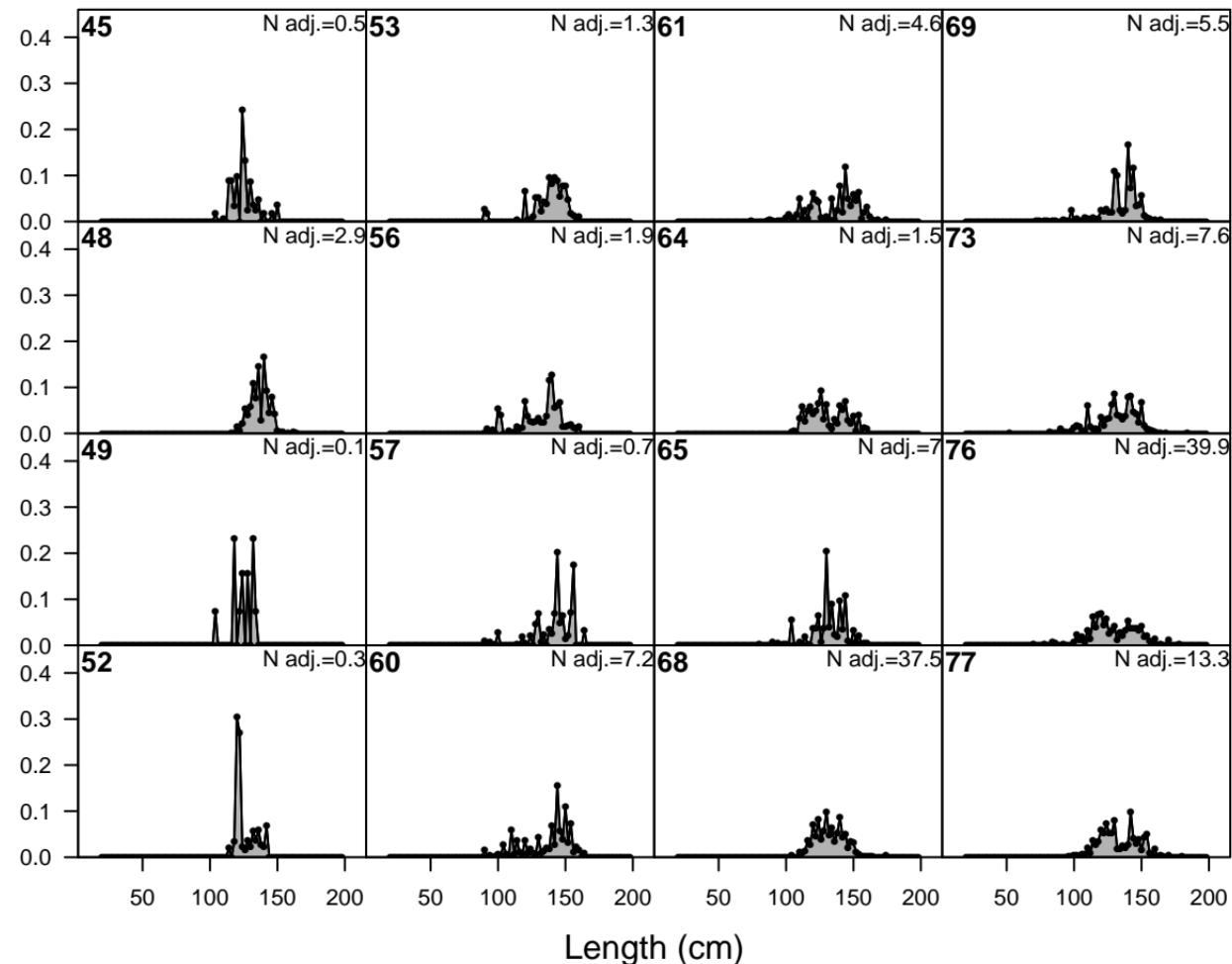




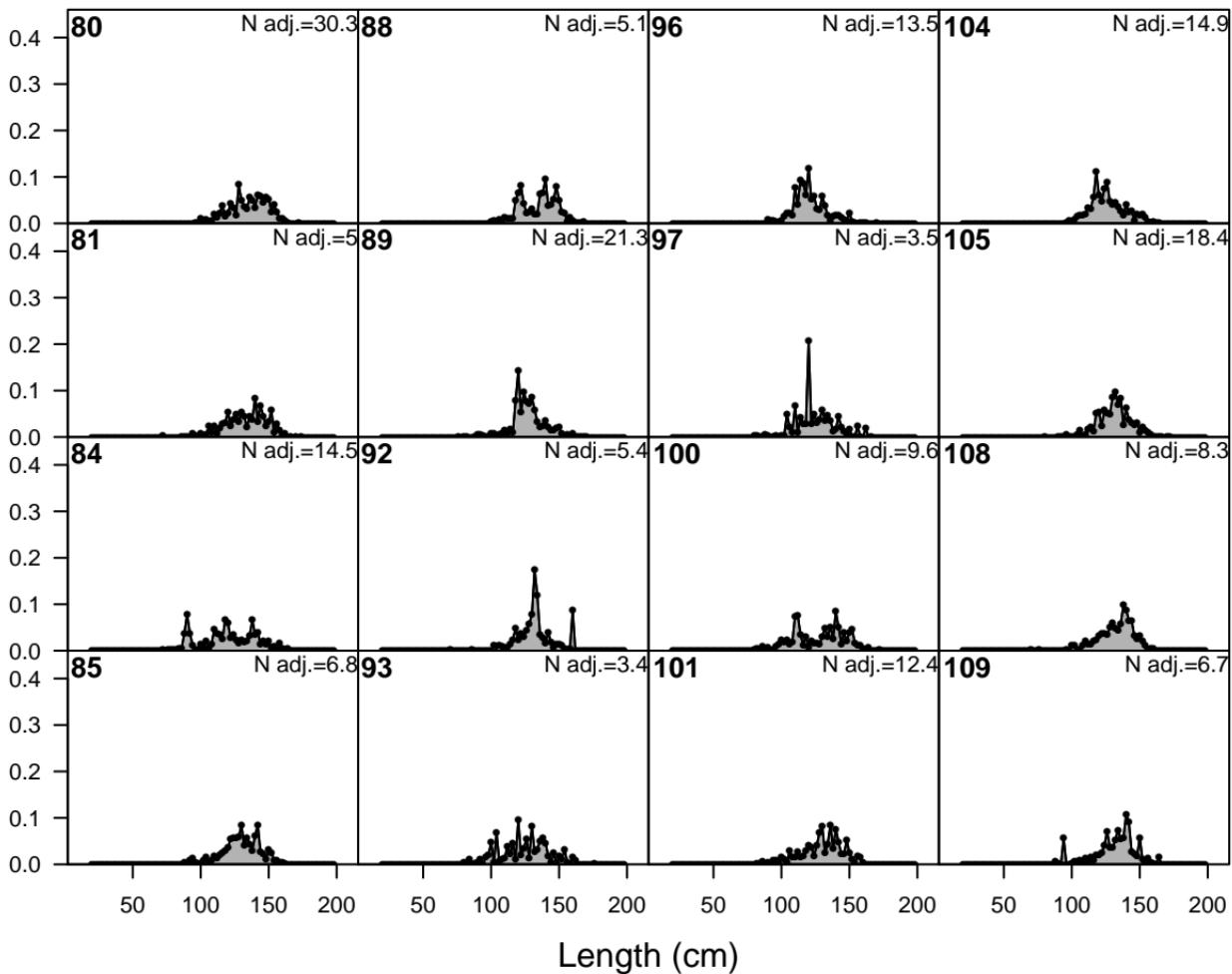
F22-BB (whole catch)



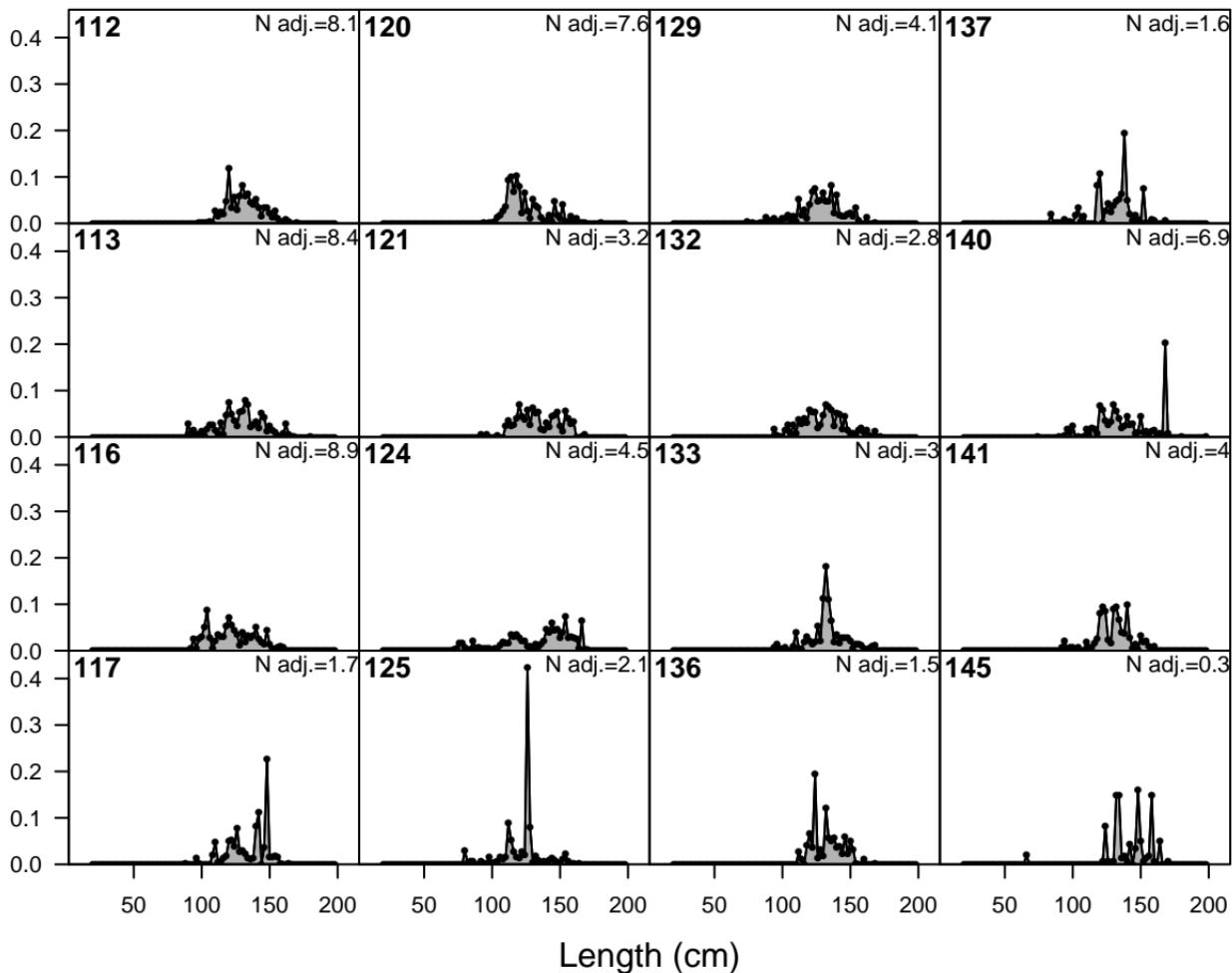
Proportion

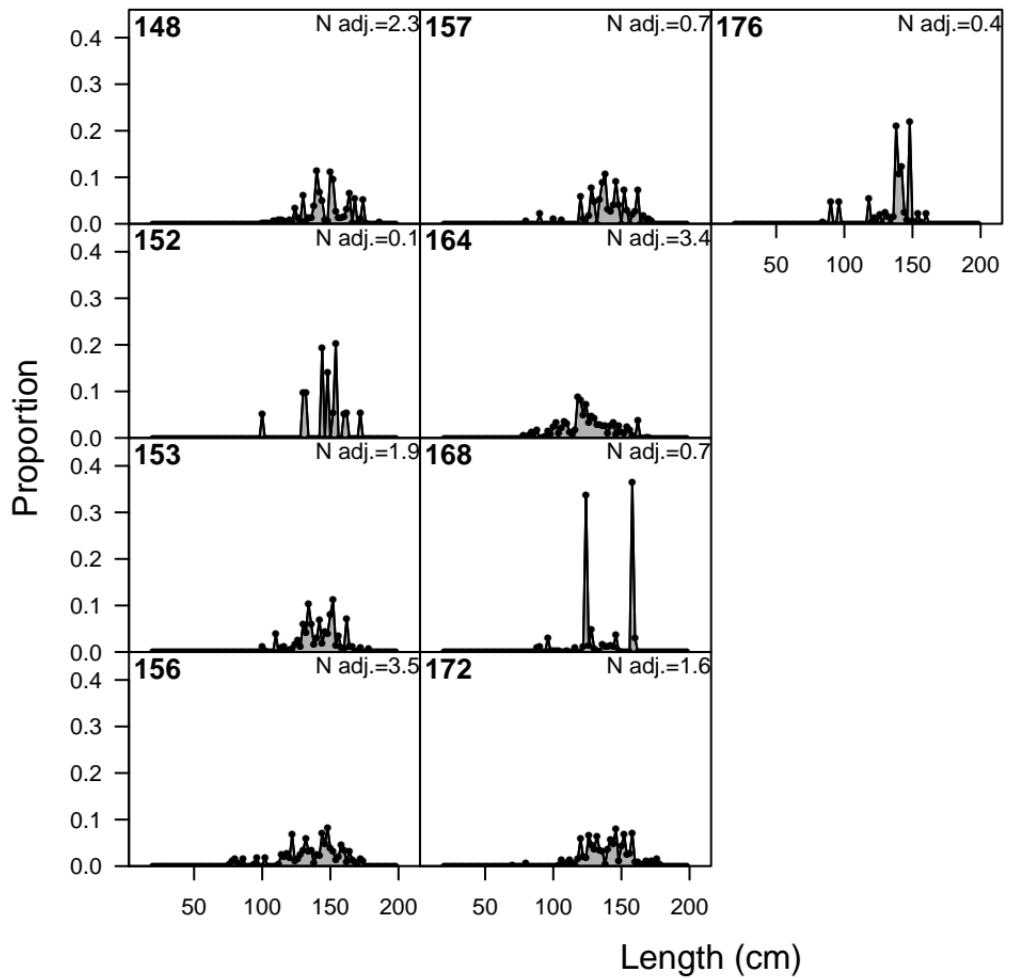


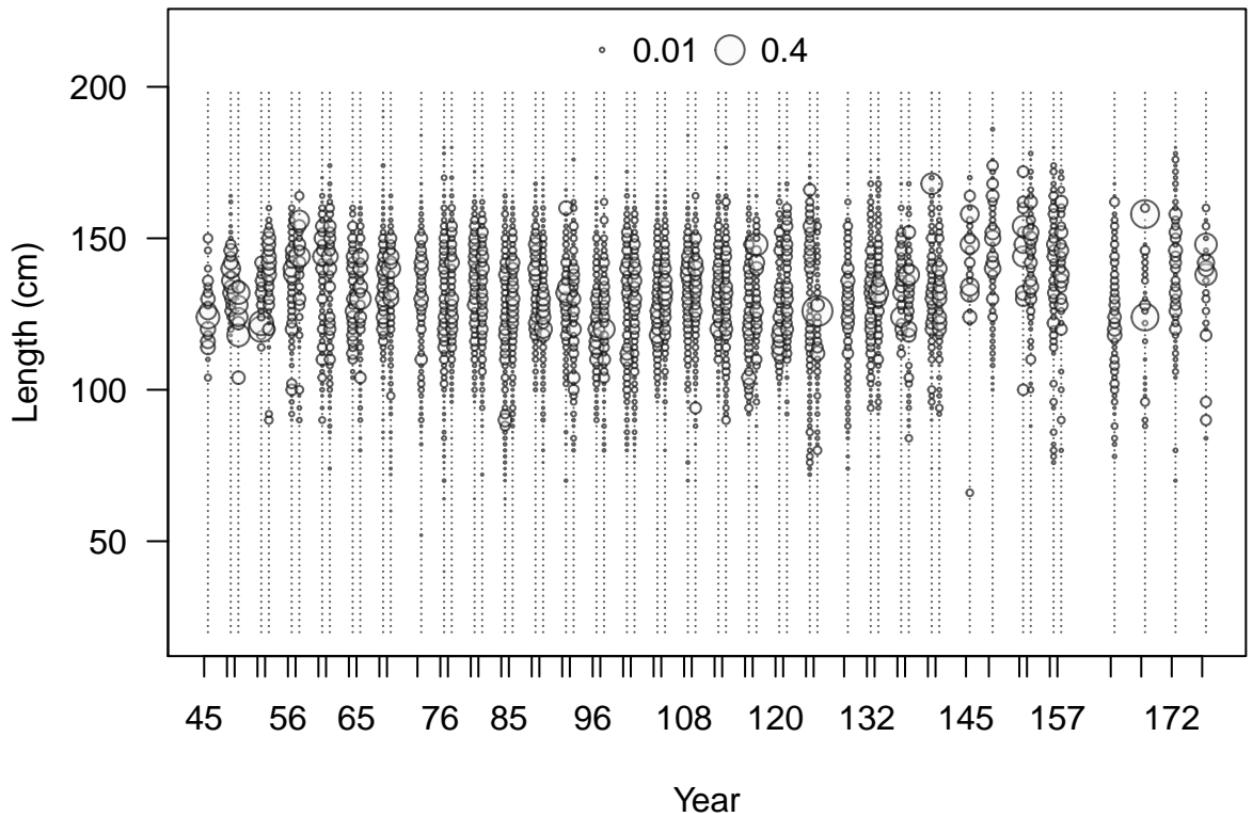
Proportion



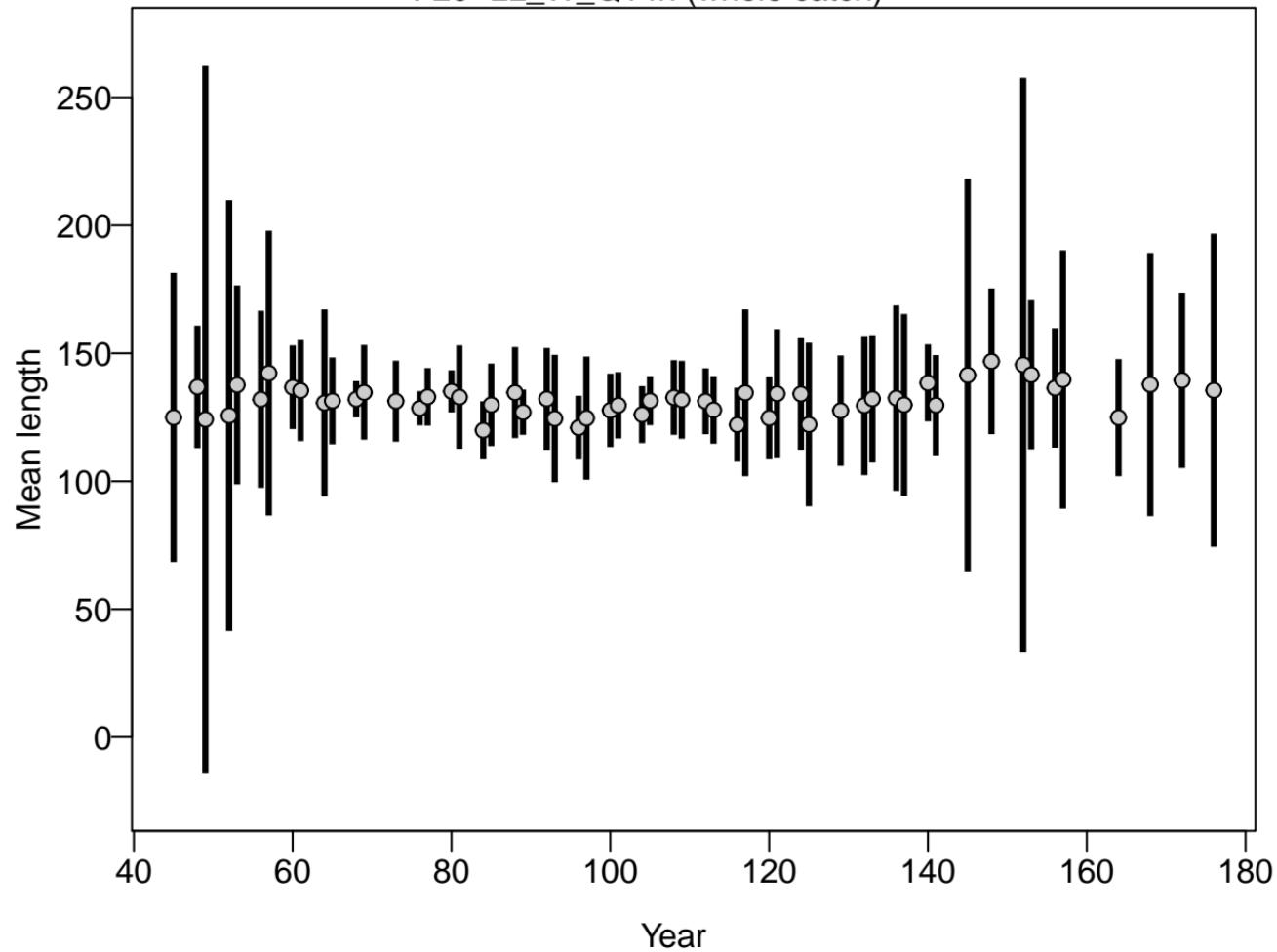
Proportion



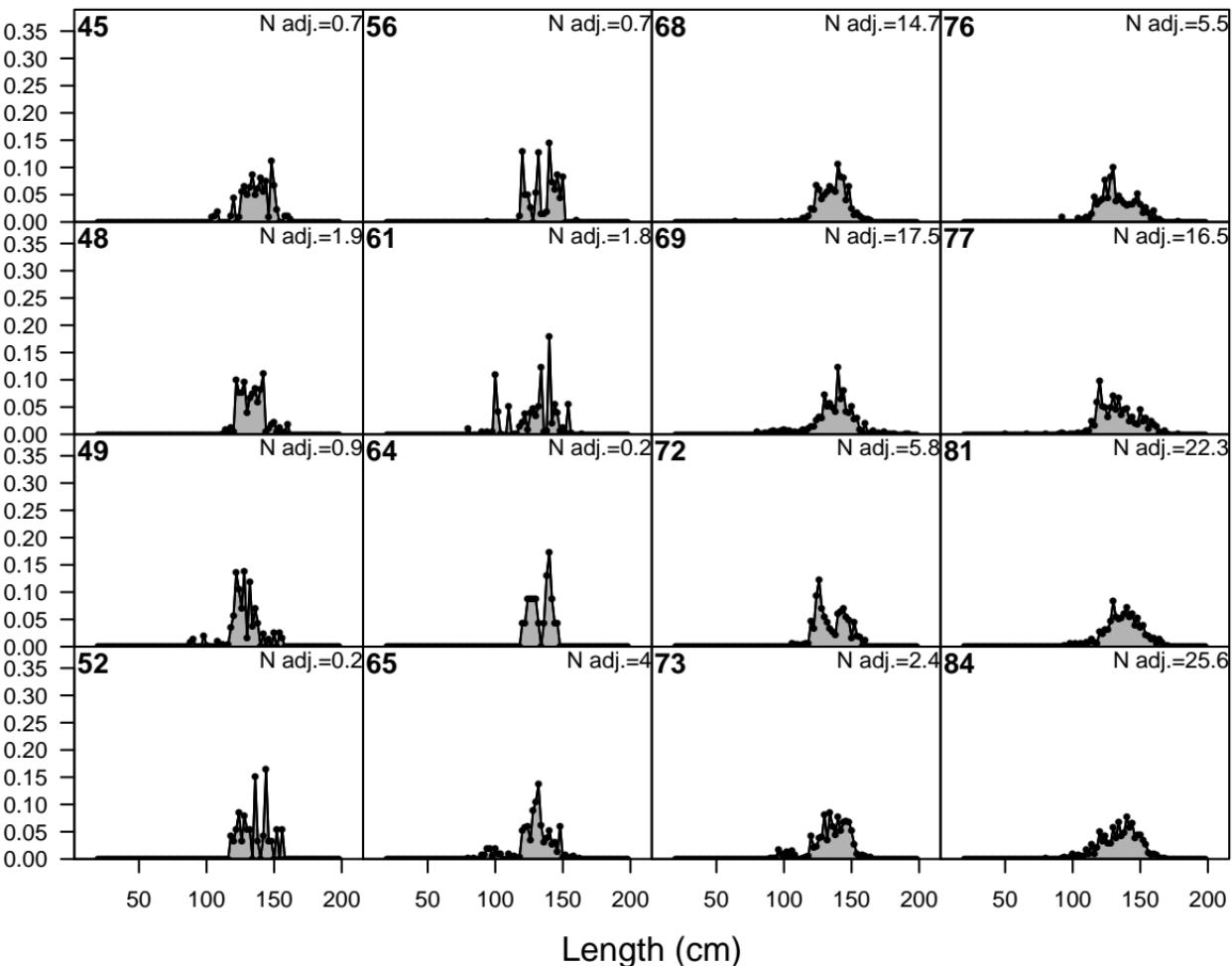




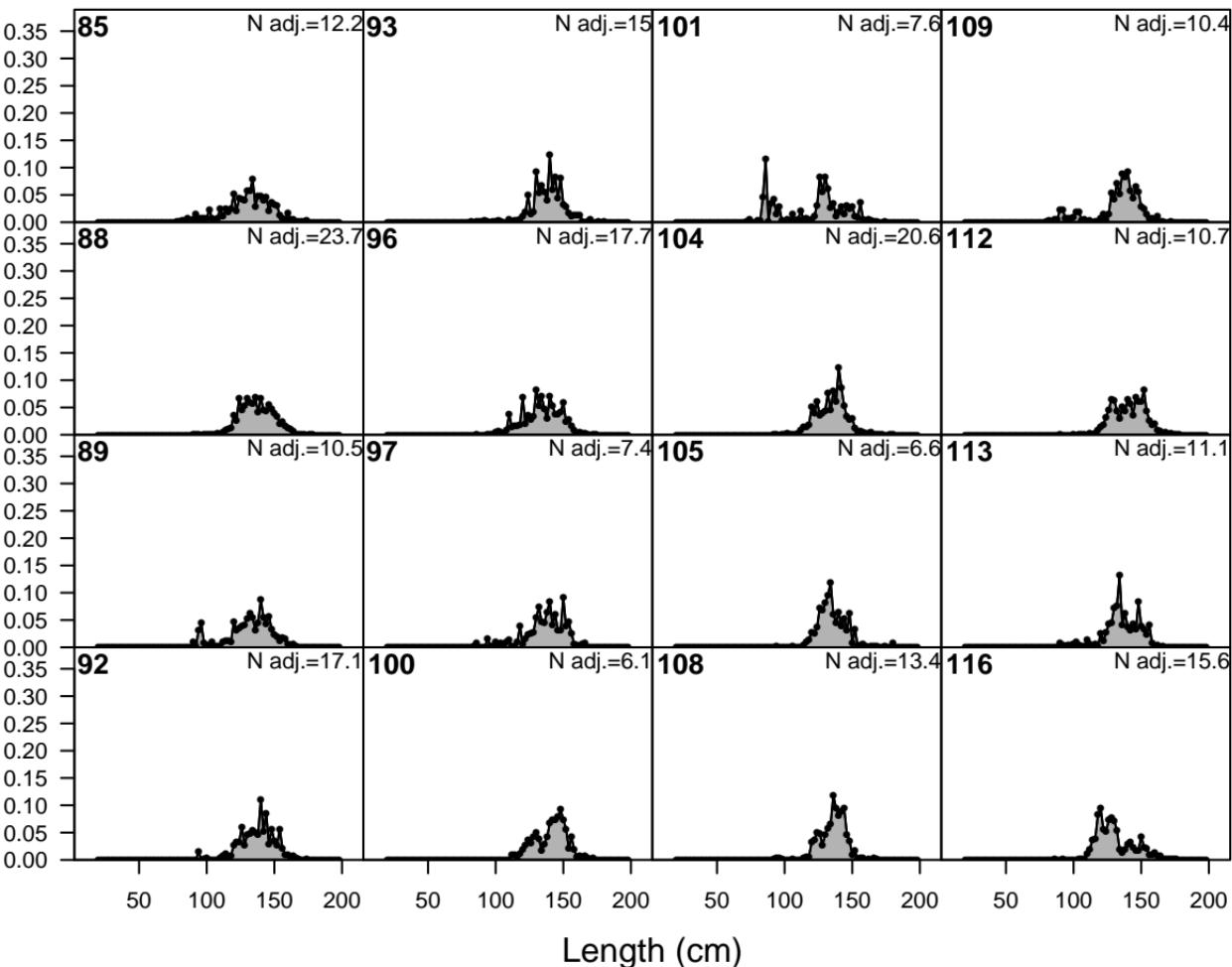
F29-LL_W_Q14n (whole catch)



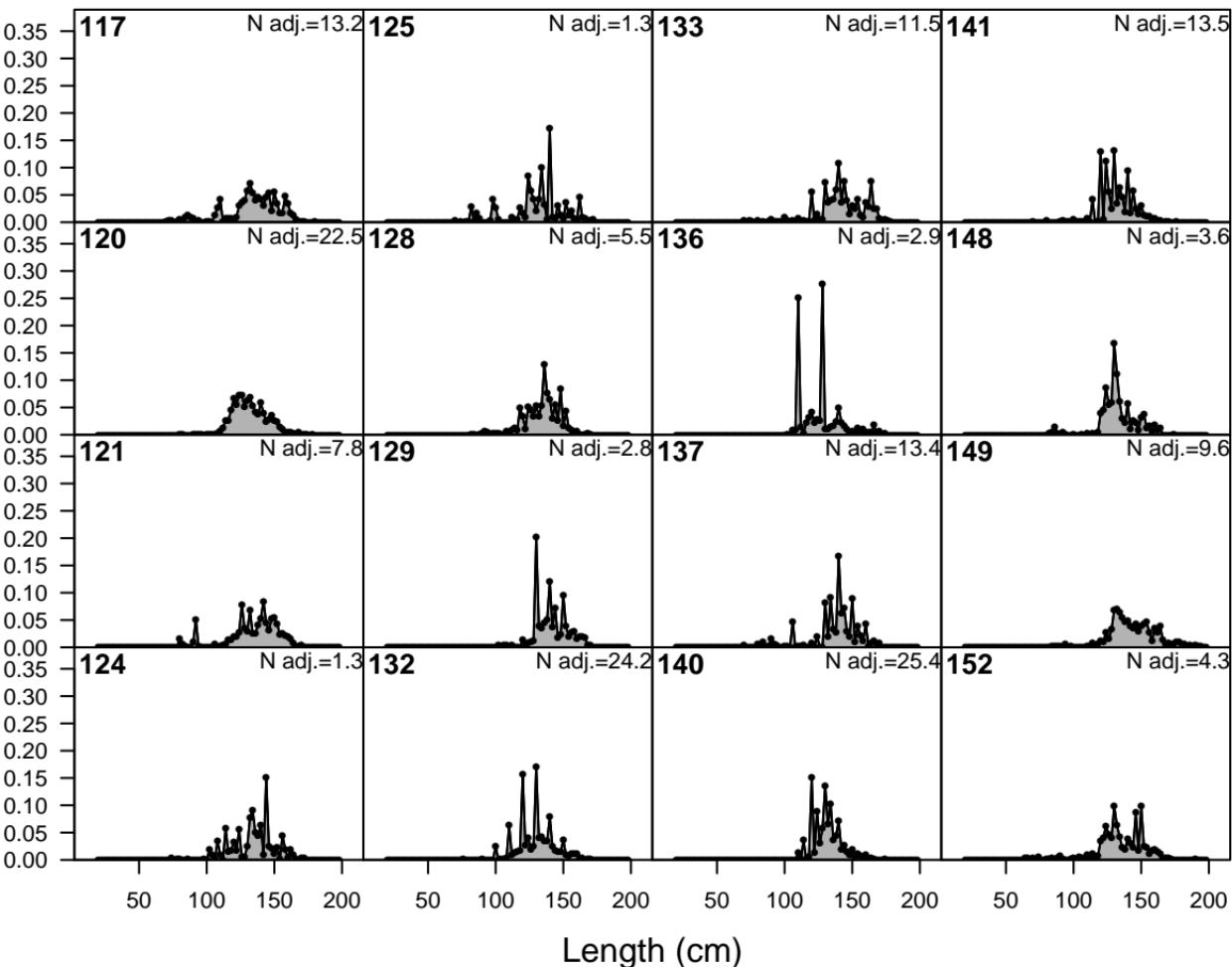
Proportion



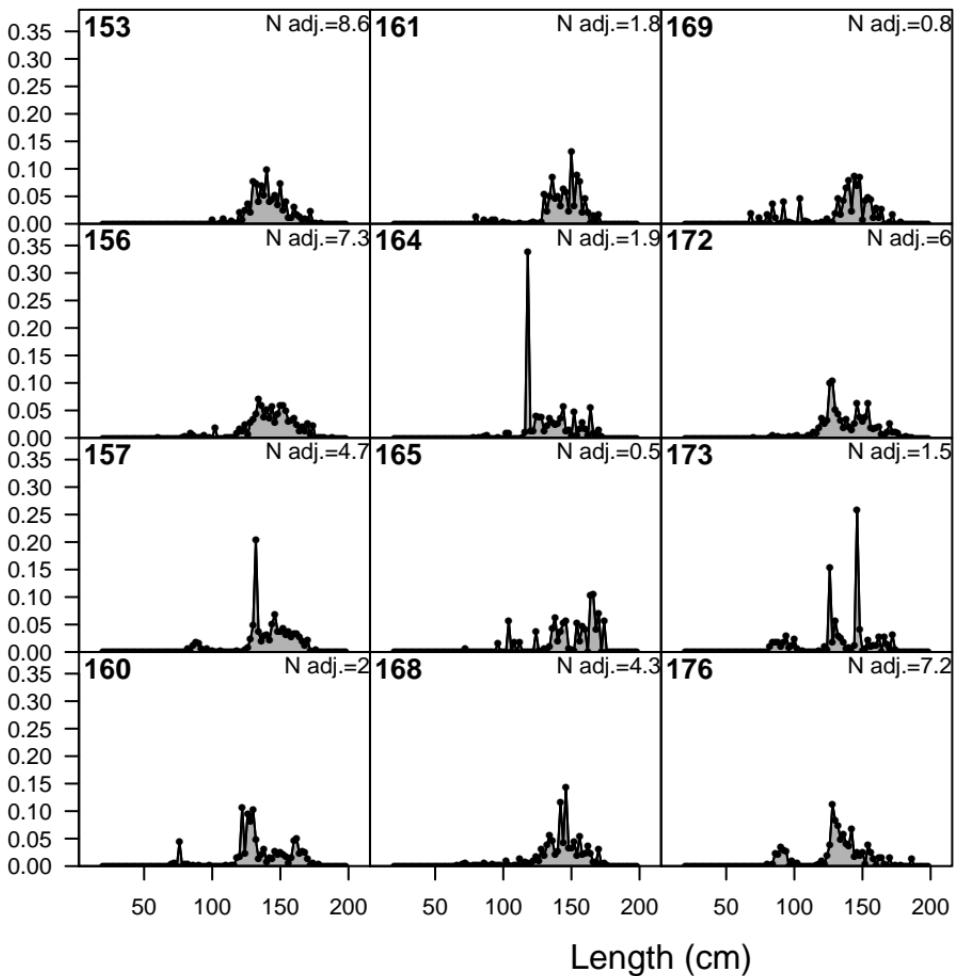
Proportion

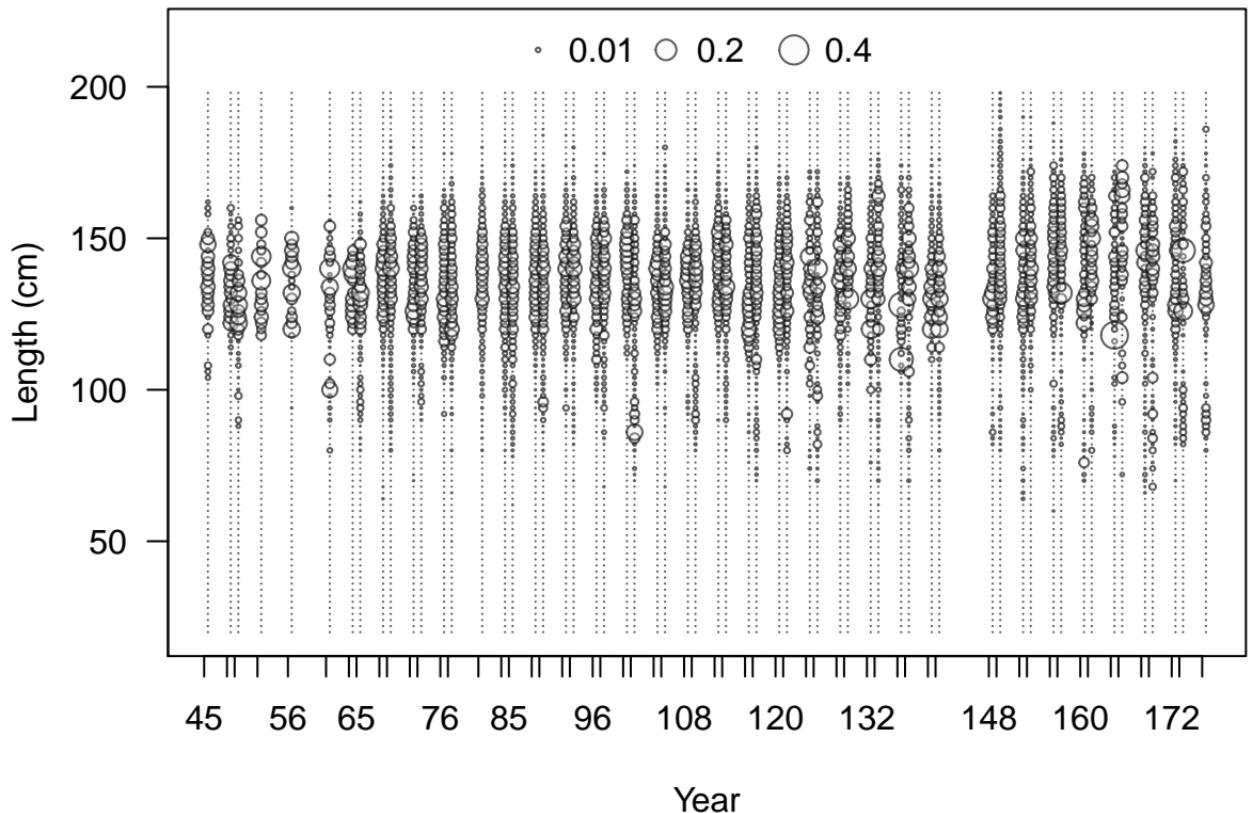


Proportion

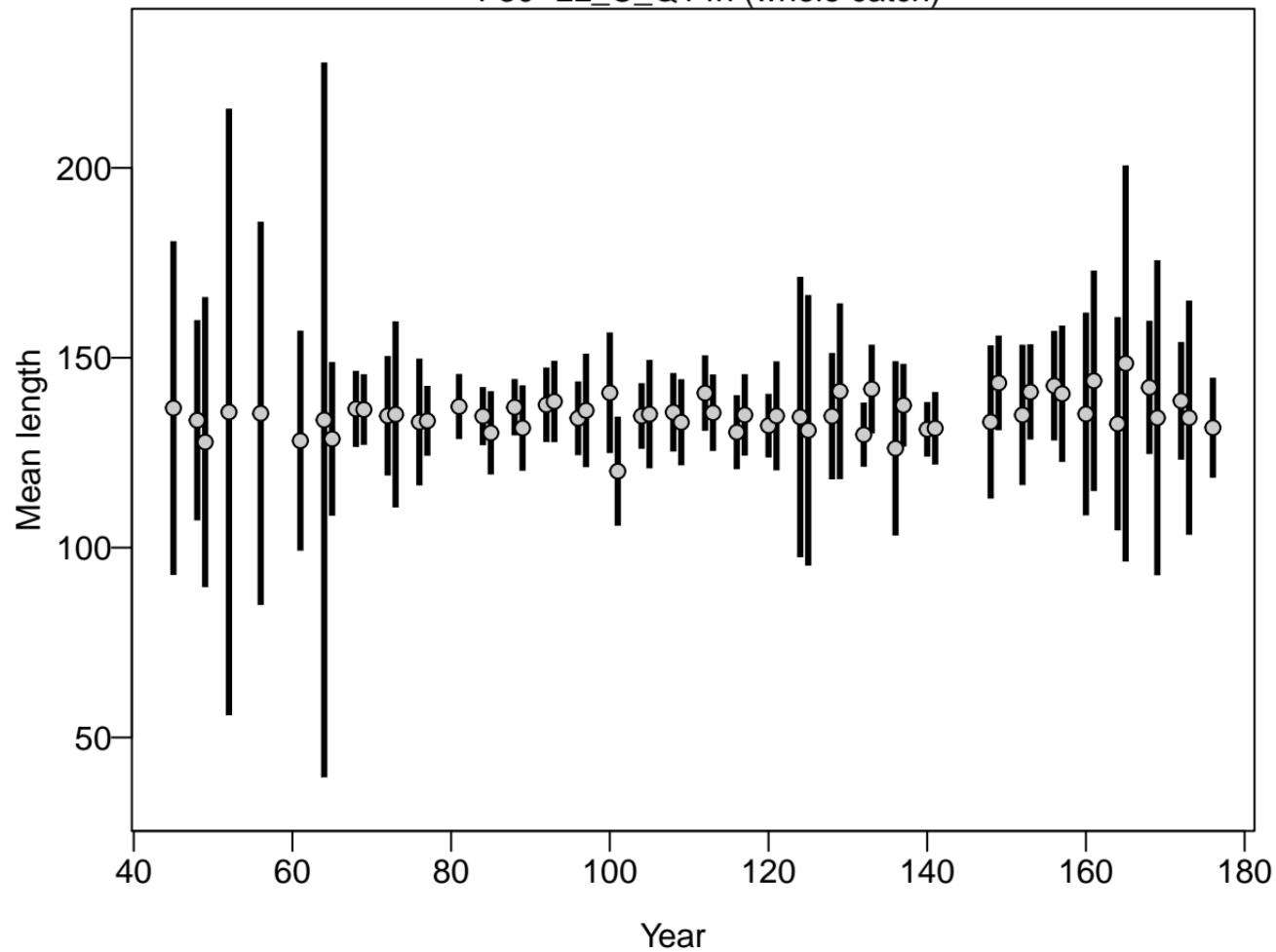


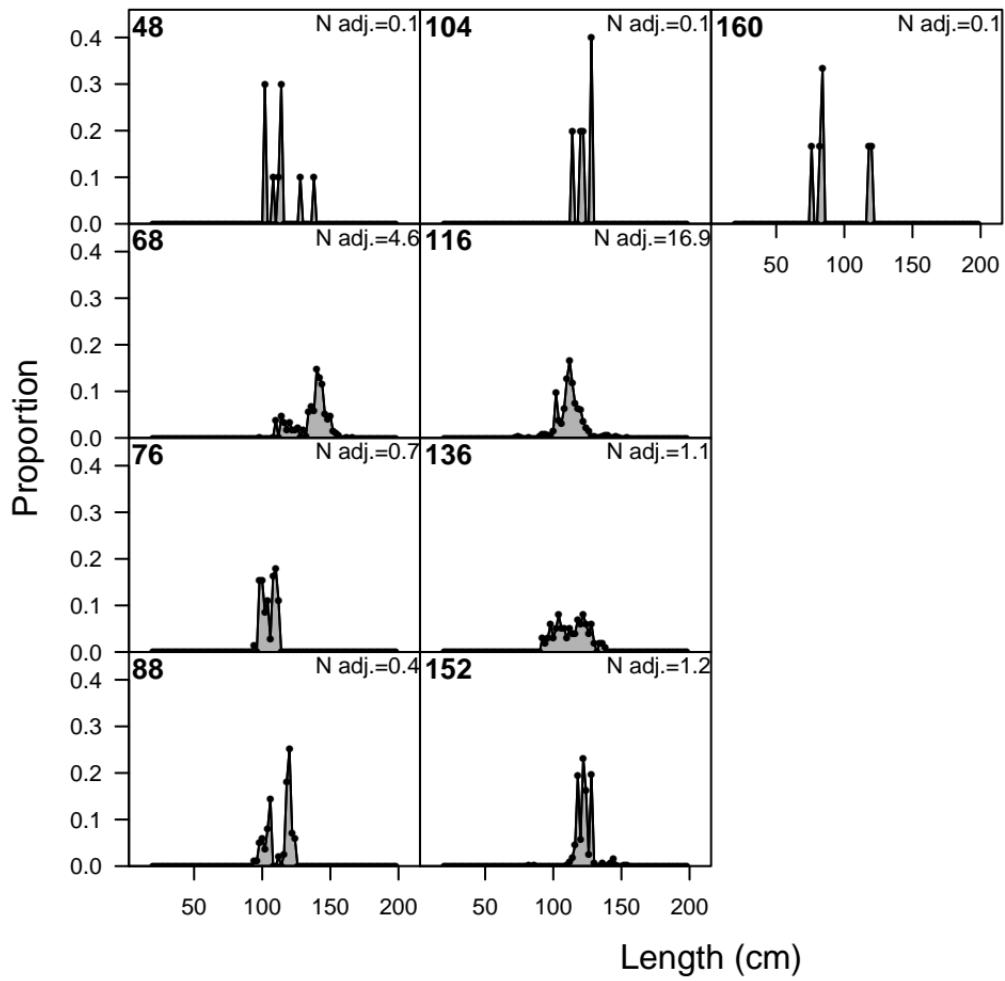
Proportion

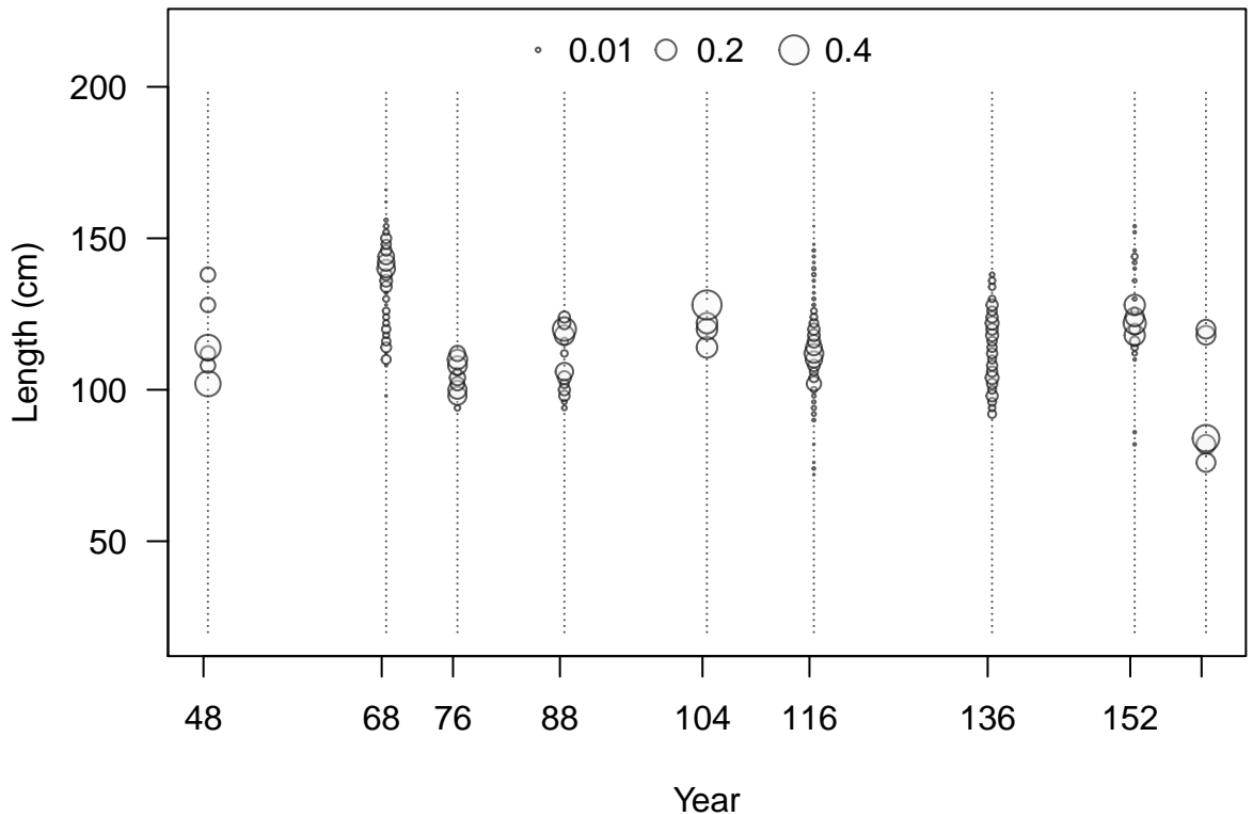




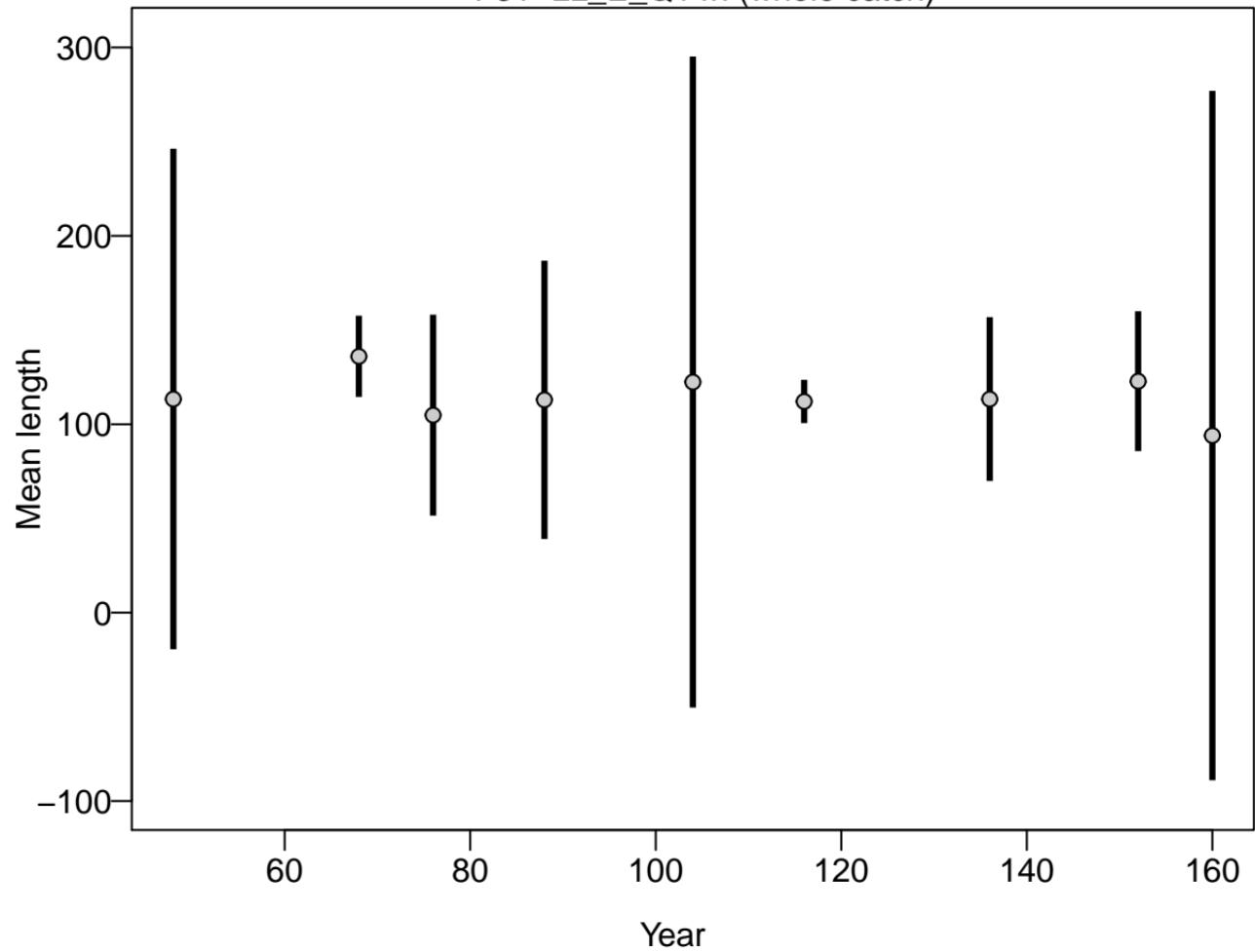
F30-LL_C_Q14n (whole catch)



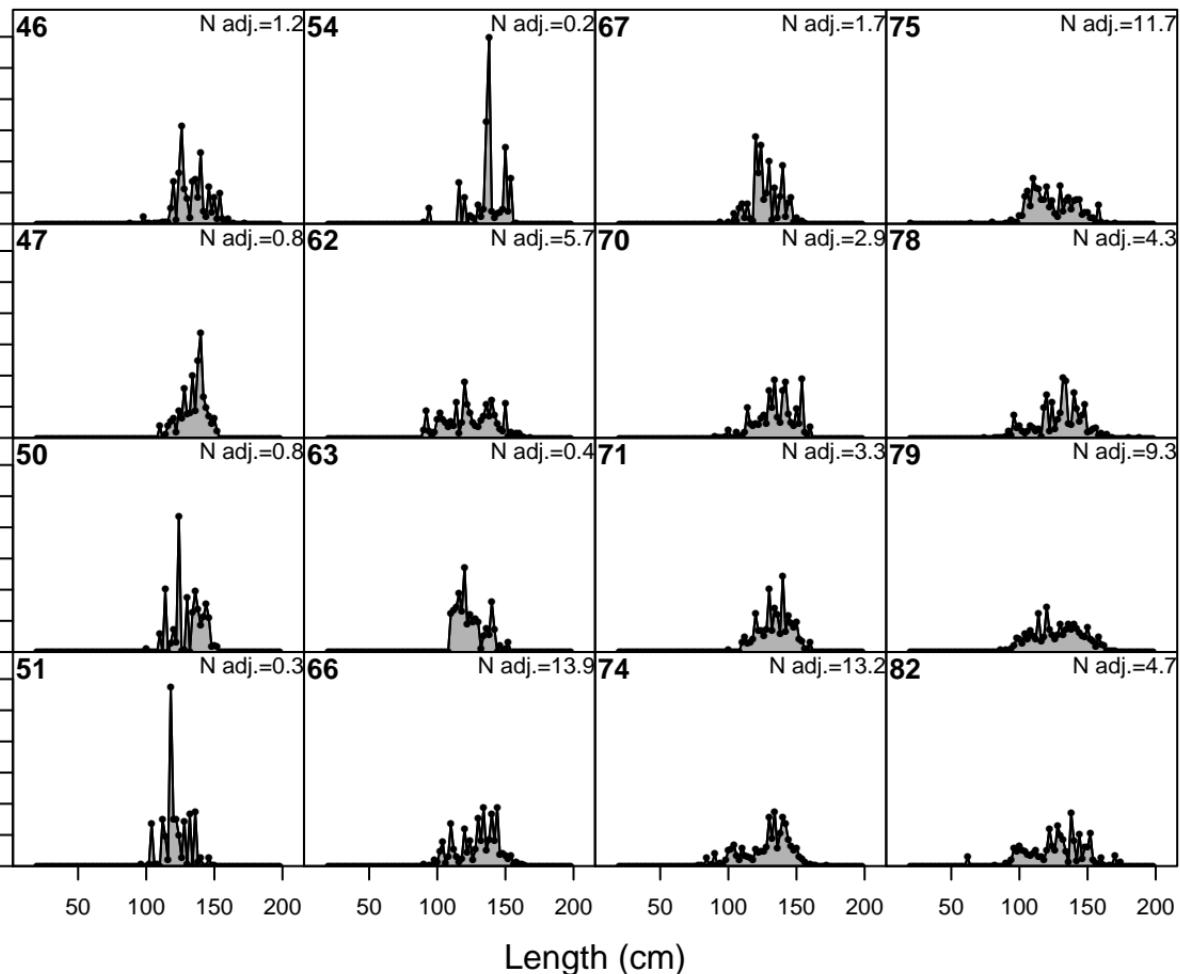




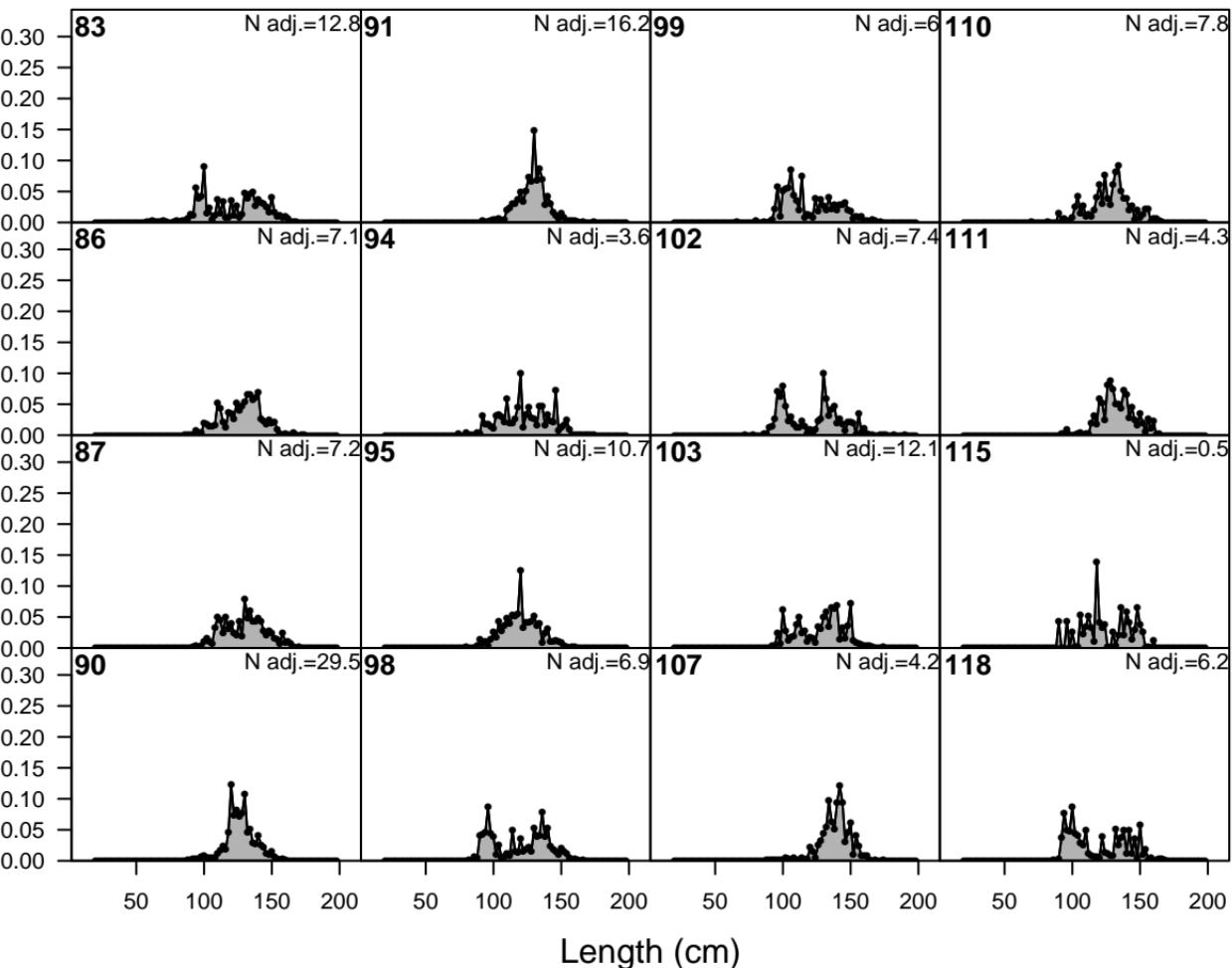
F31-LL_E_Q14n (whole catch)

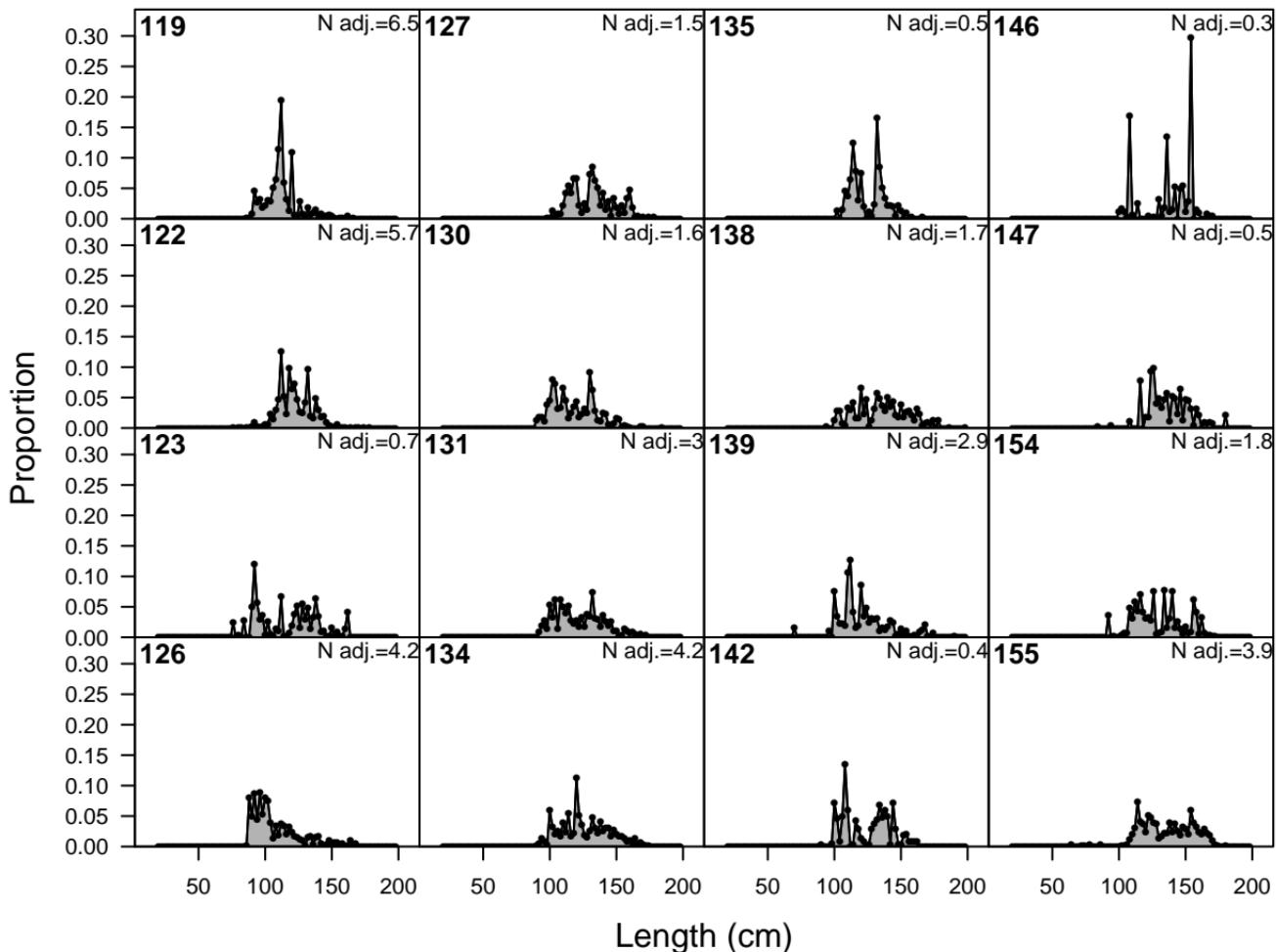


Proportion

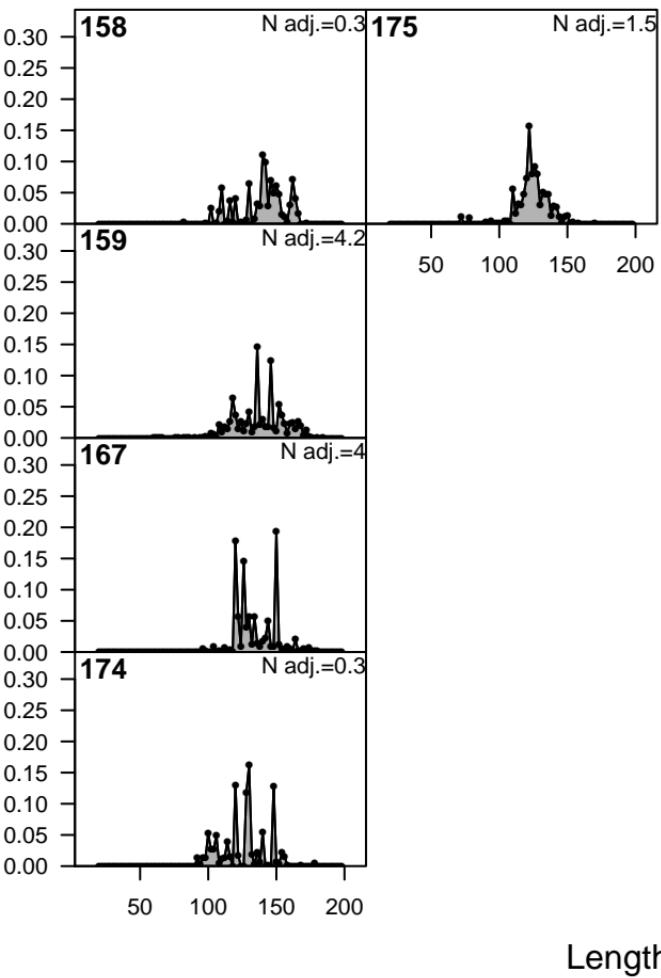


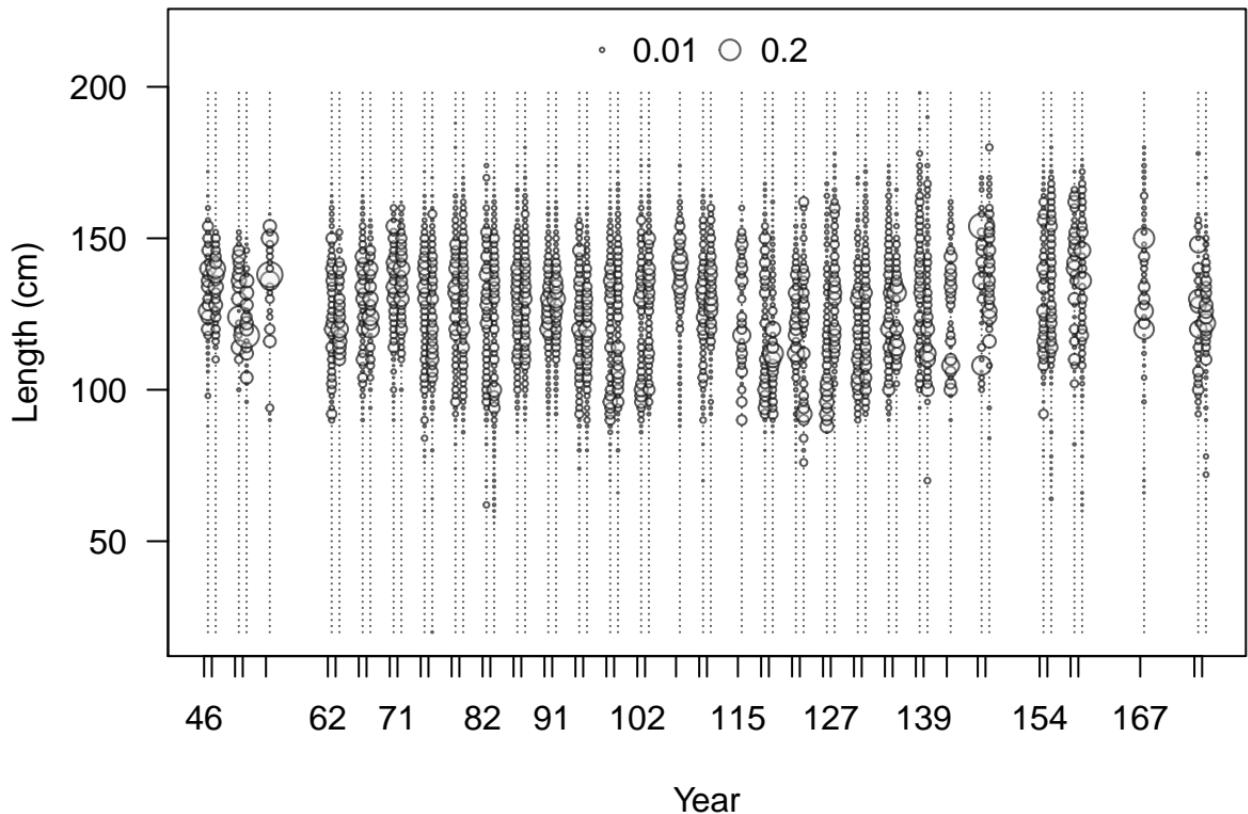
Proportion



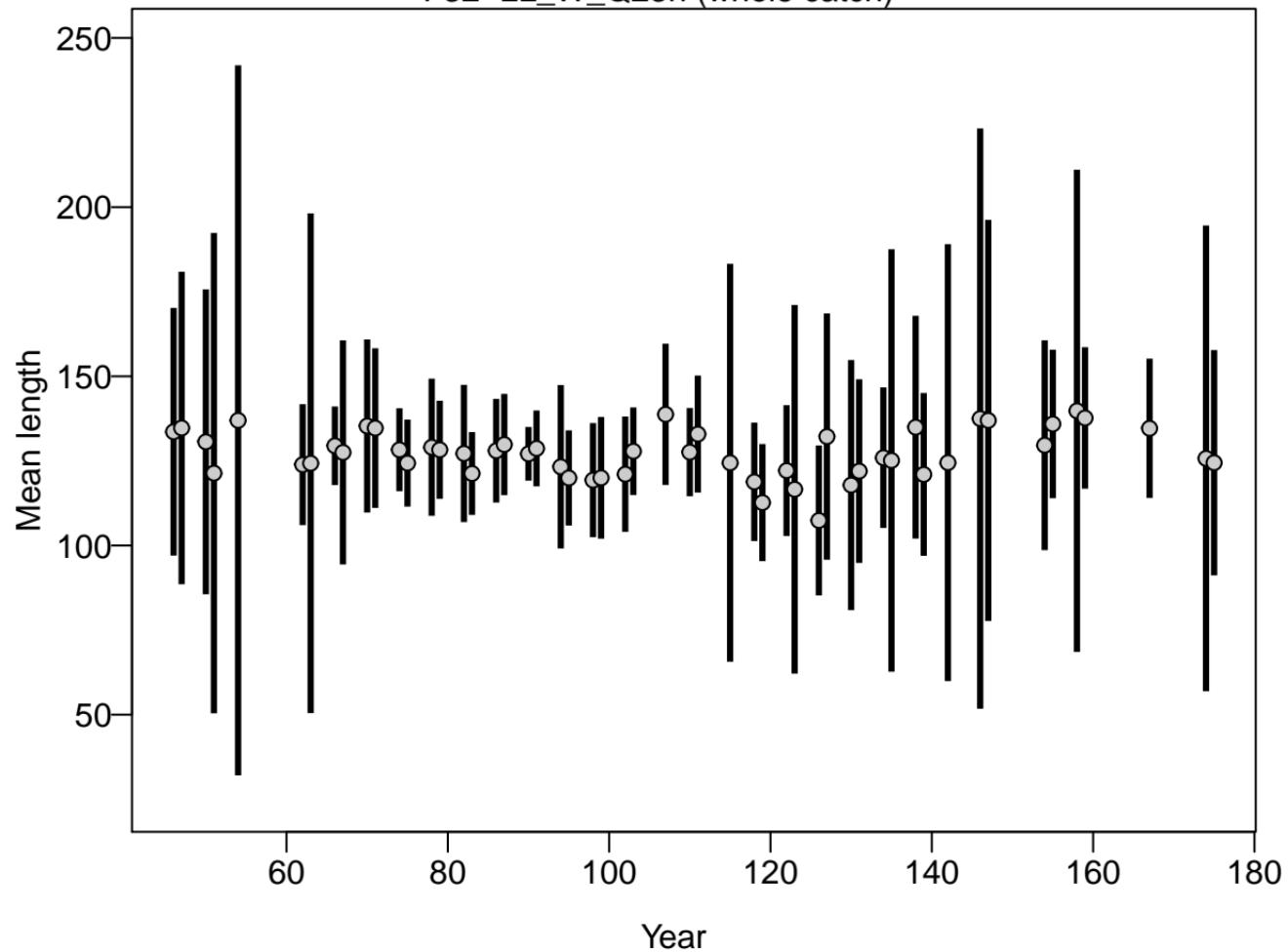


Proportion

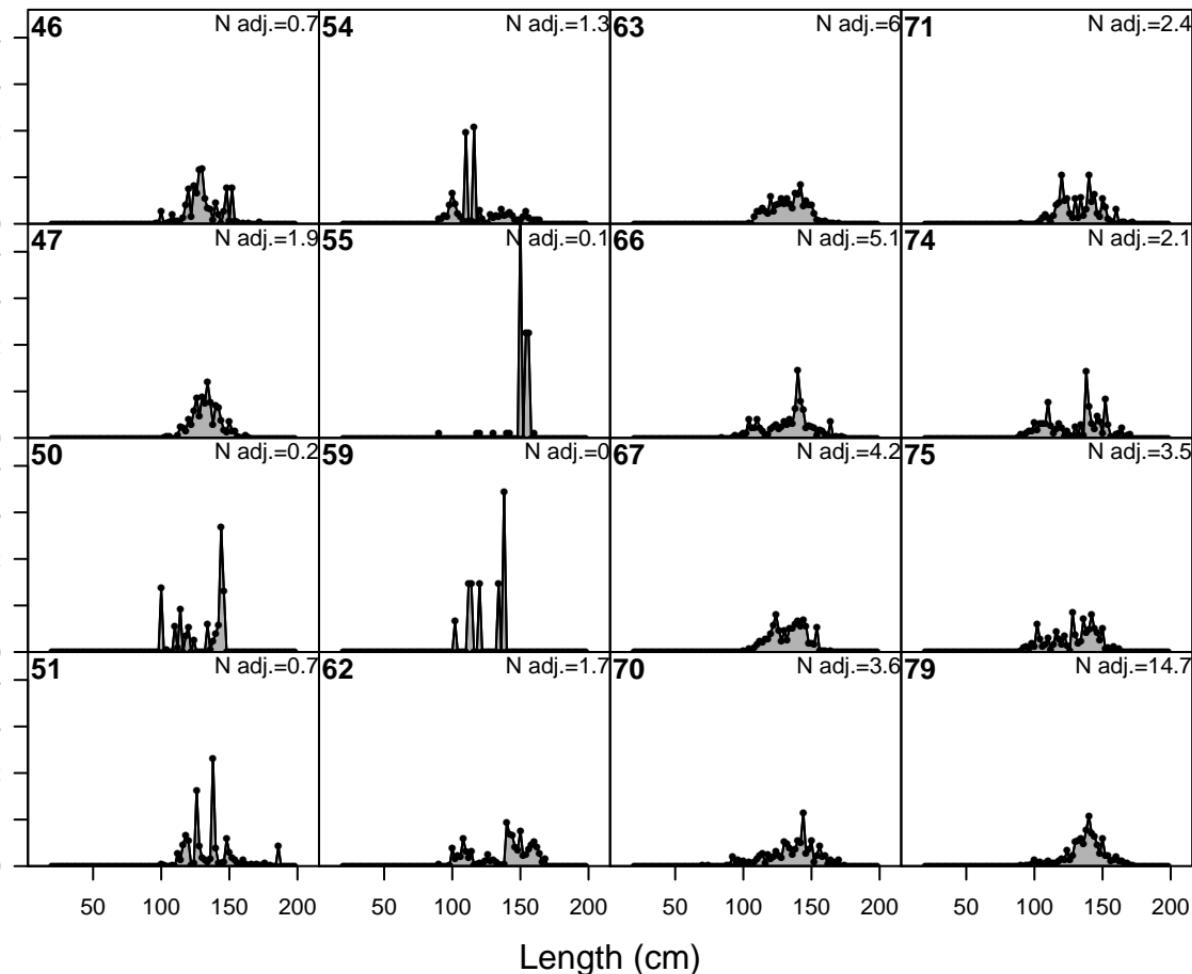


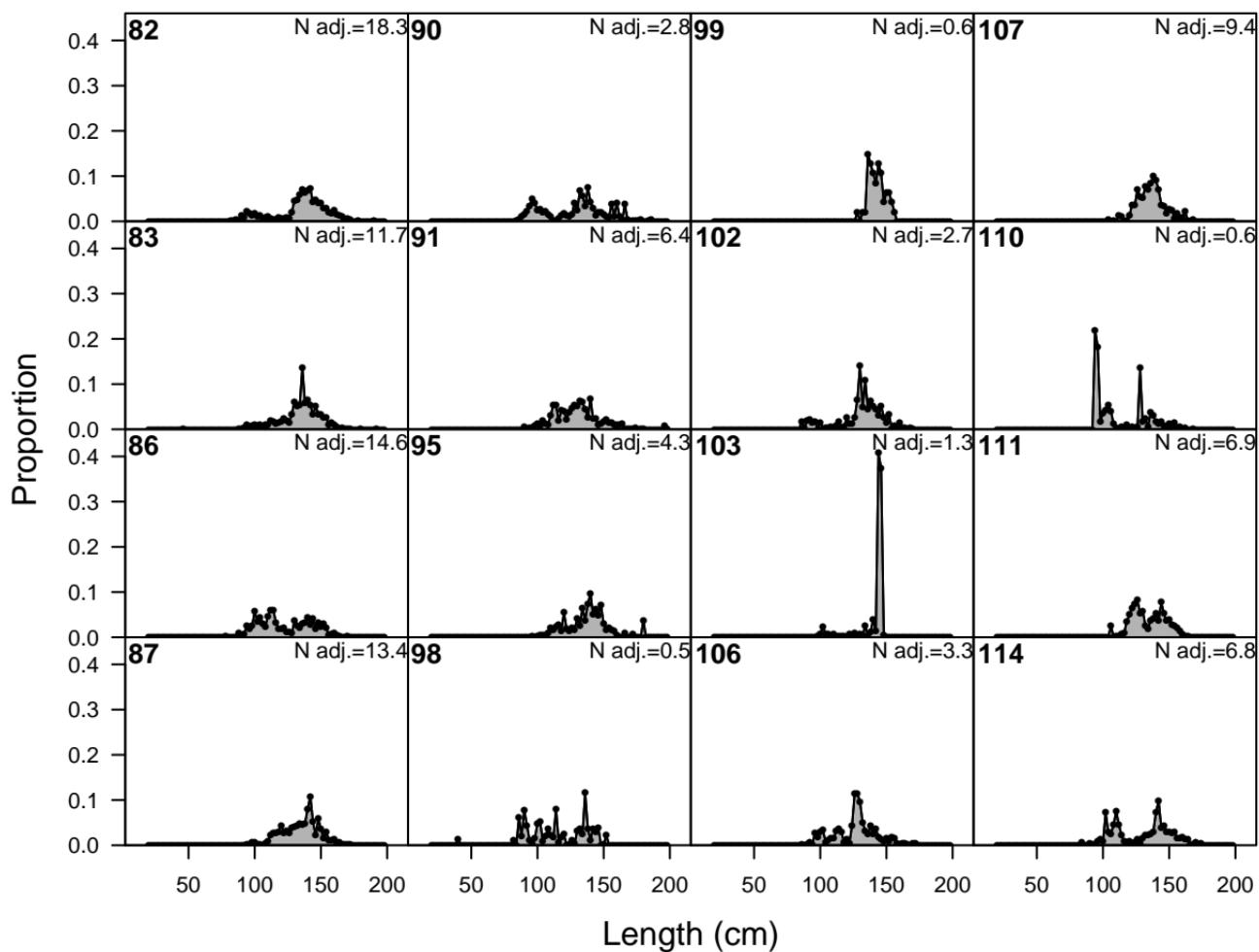


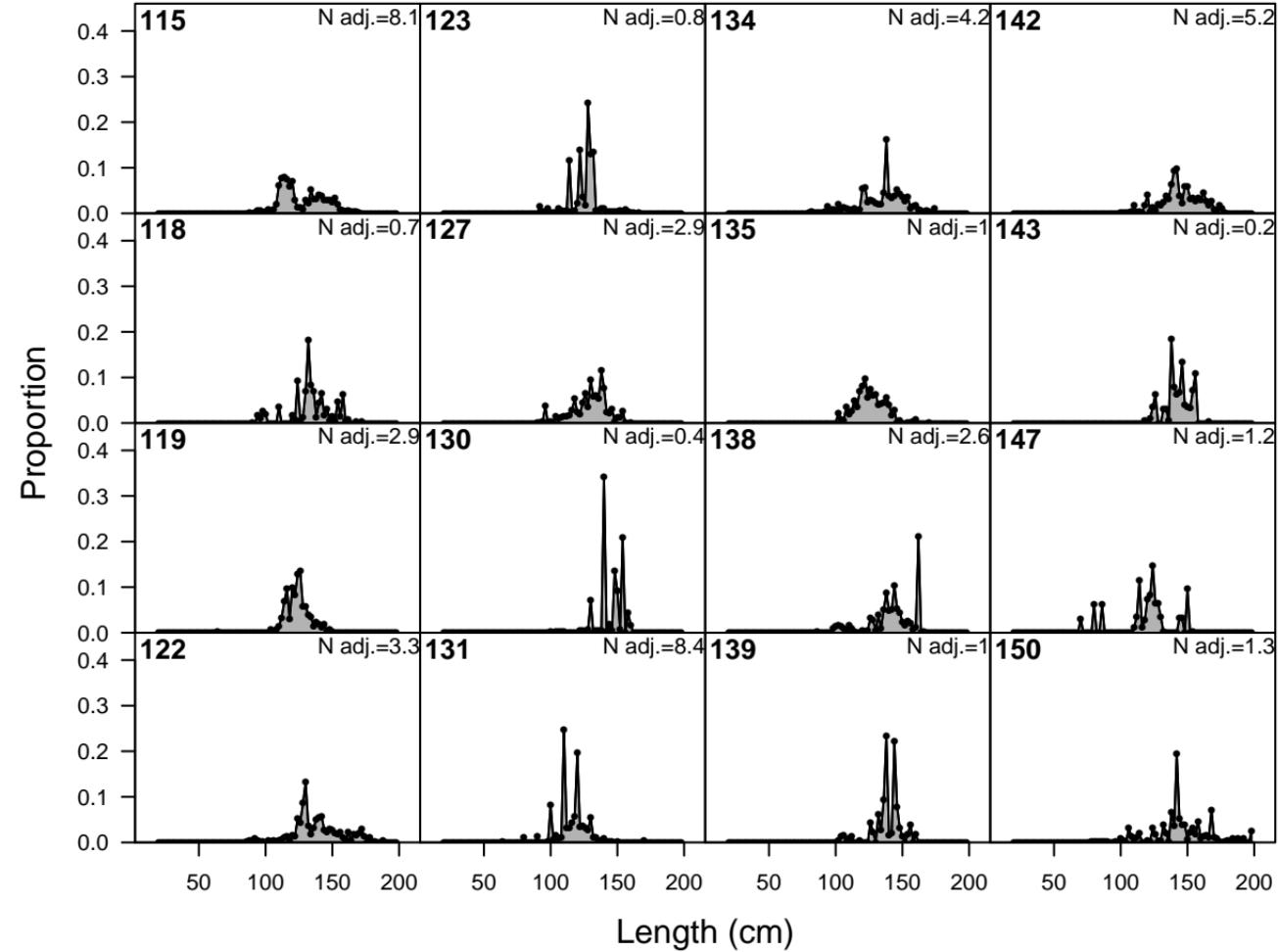
F32-LL_W_Q23n (whole catch)



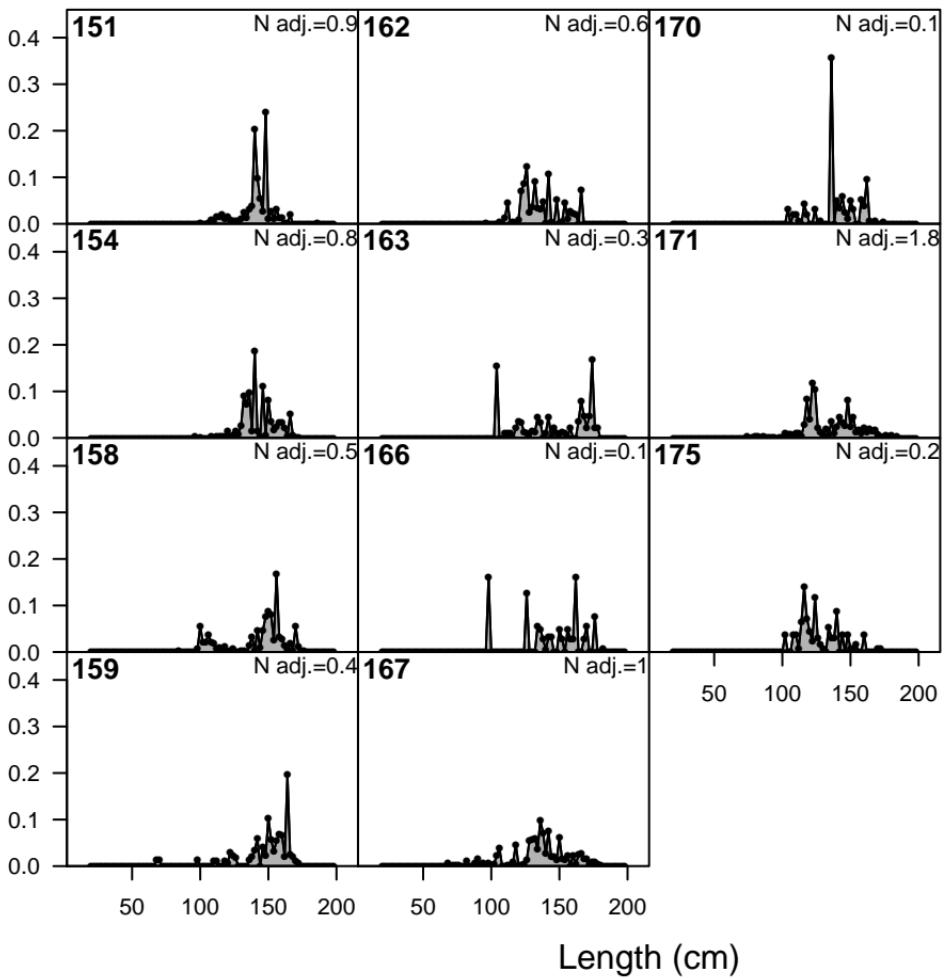
Proportion

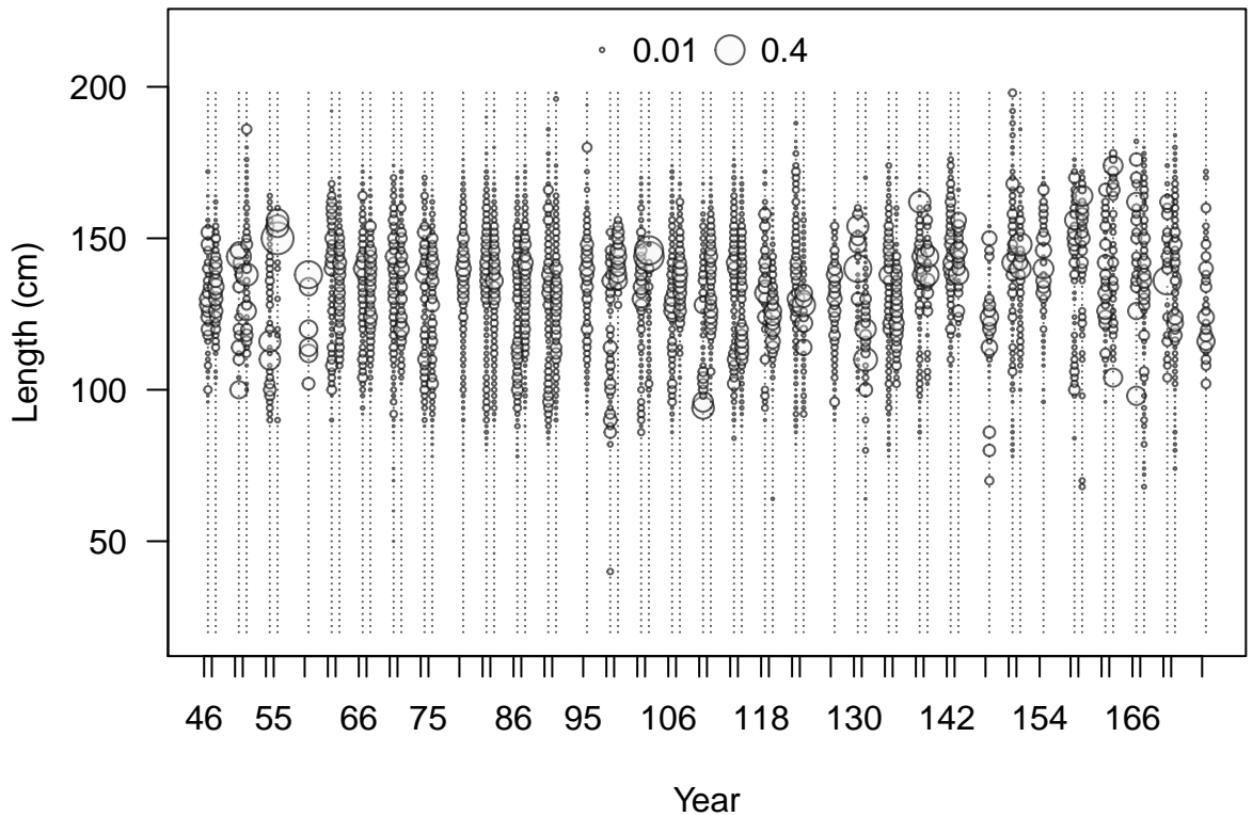




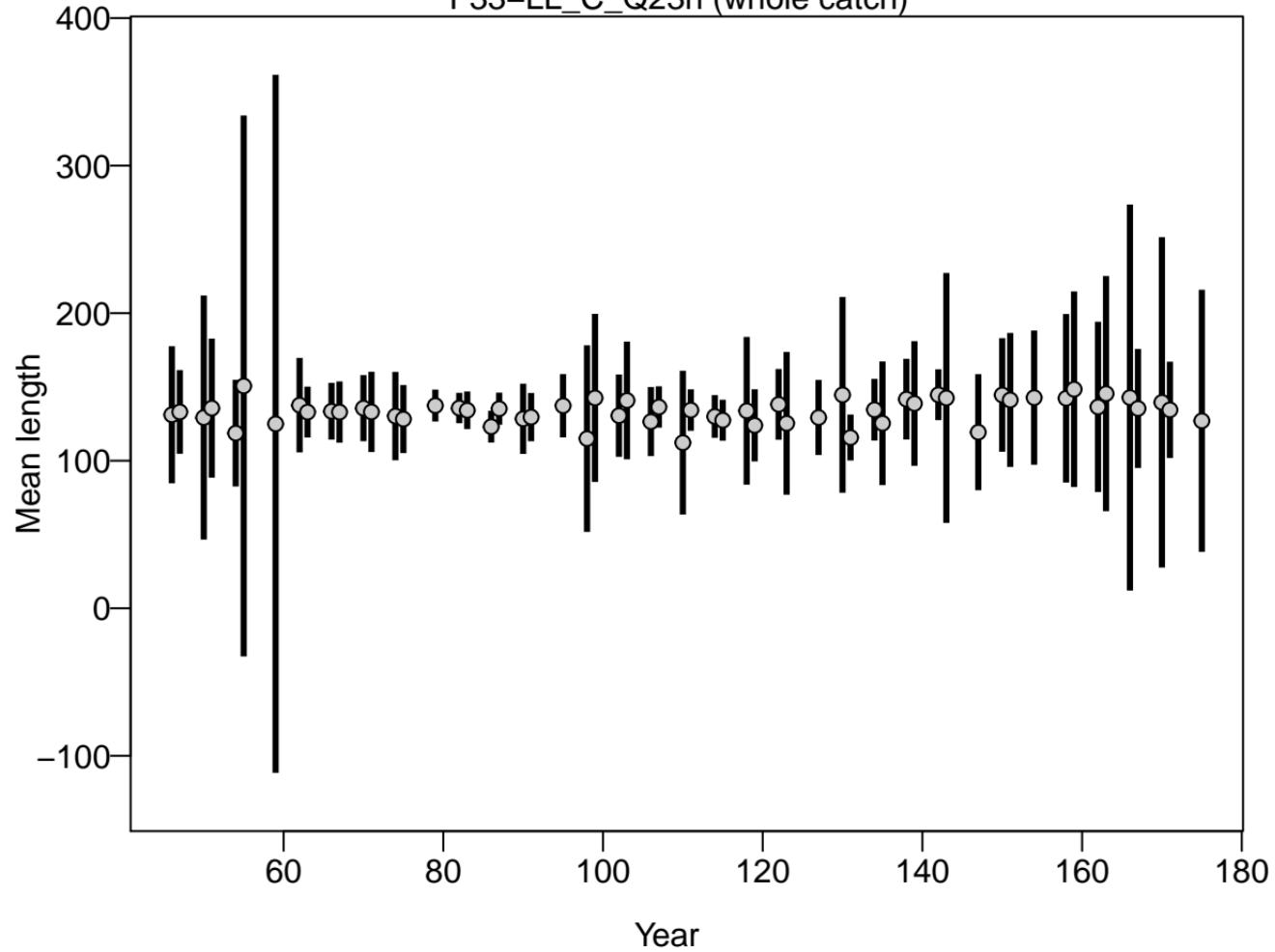


Proportion

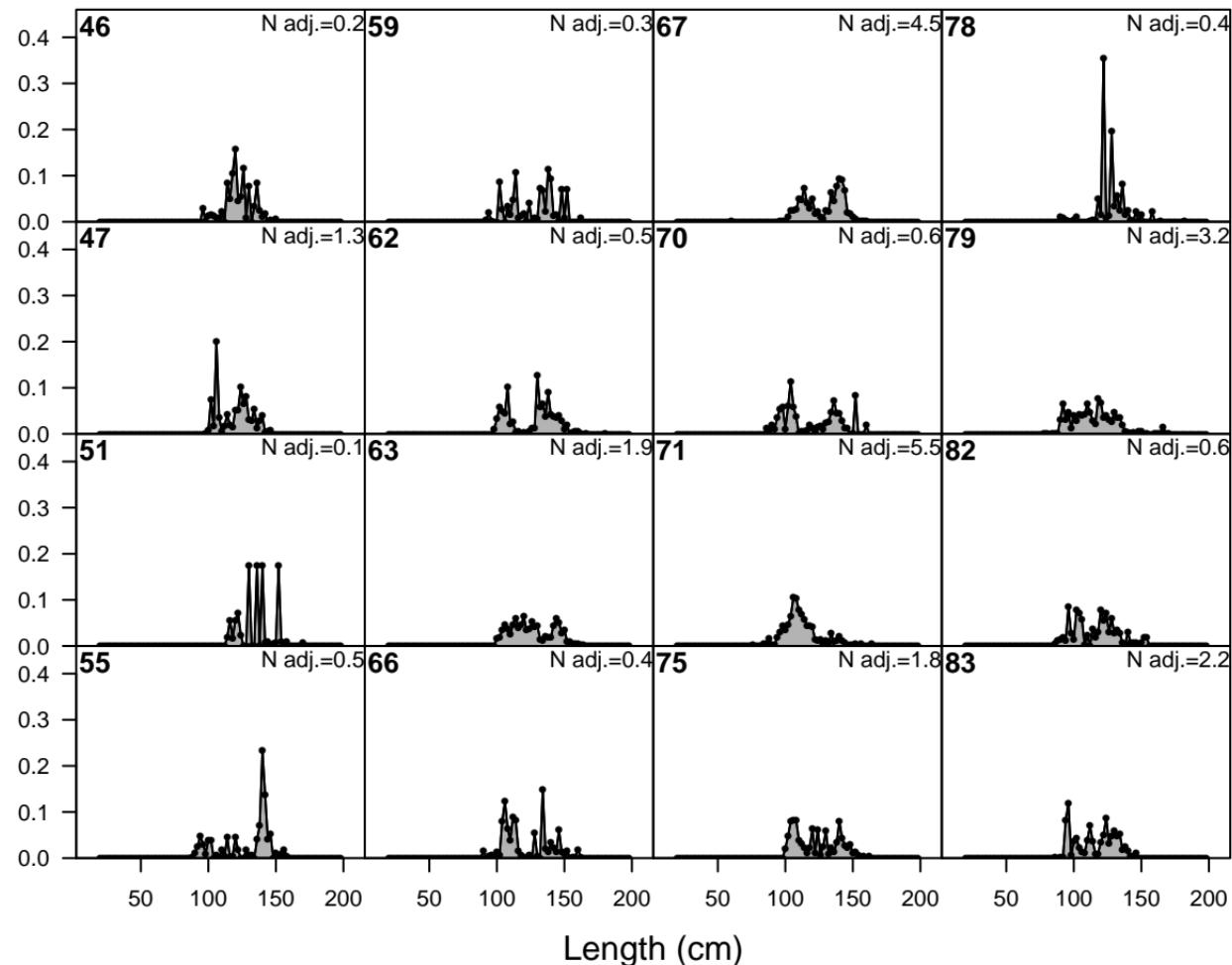




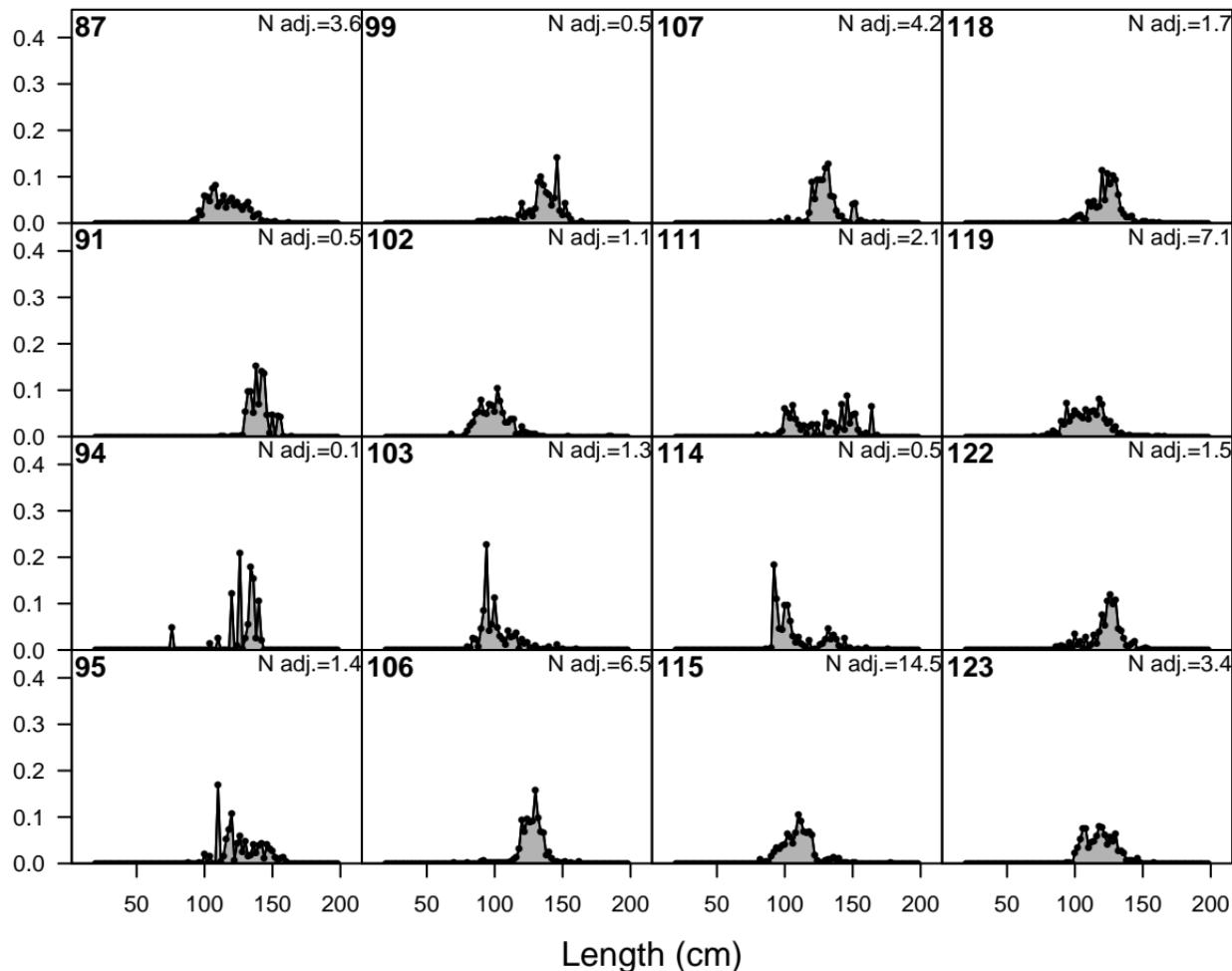
F33-LL_C_Q23n (whole catch)

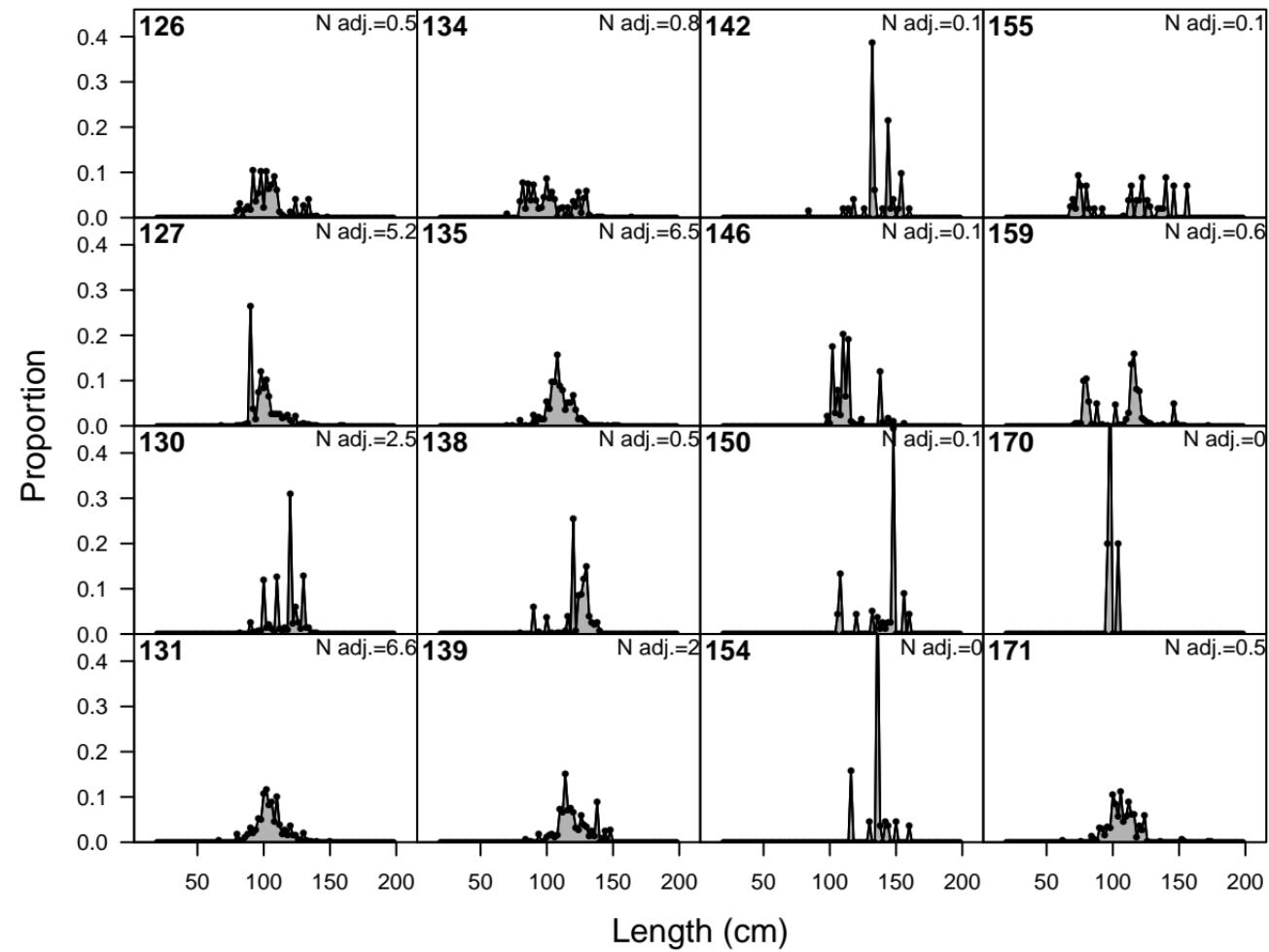


Proportion

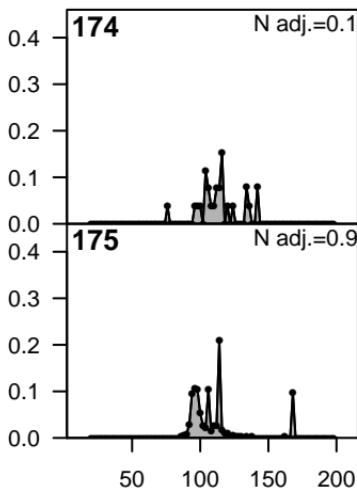


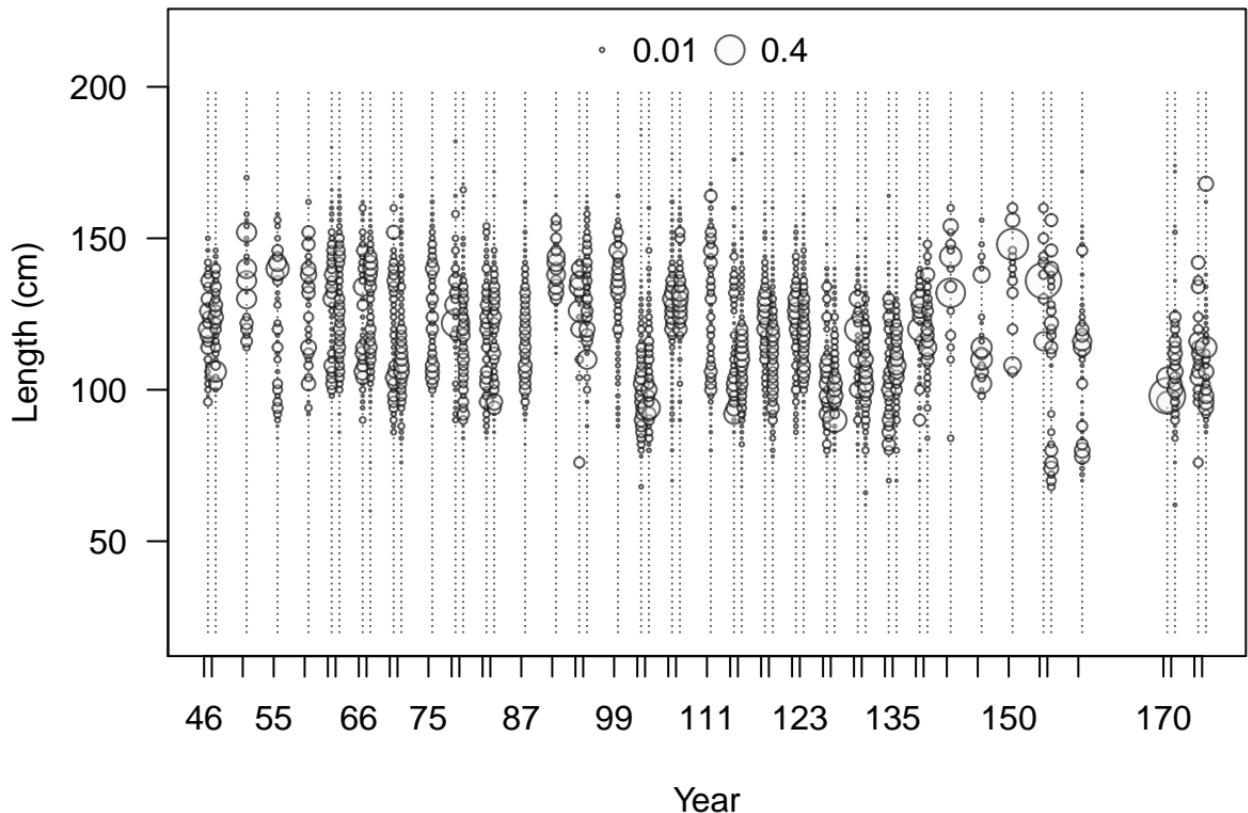
Proportion



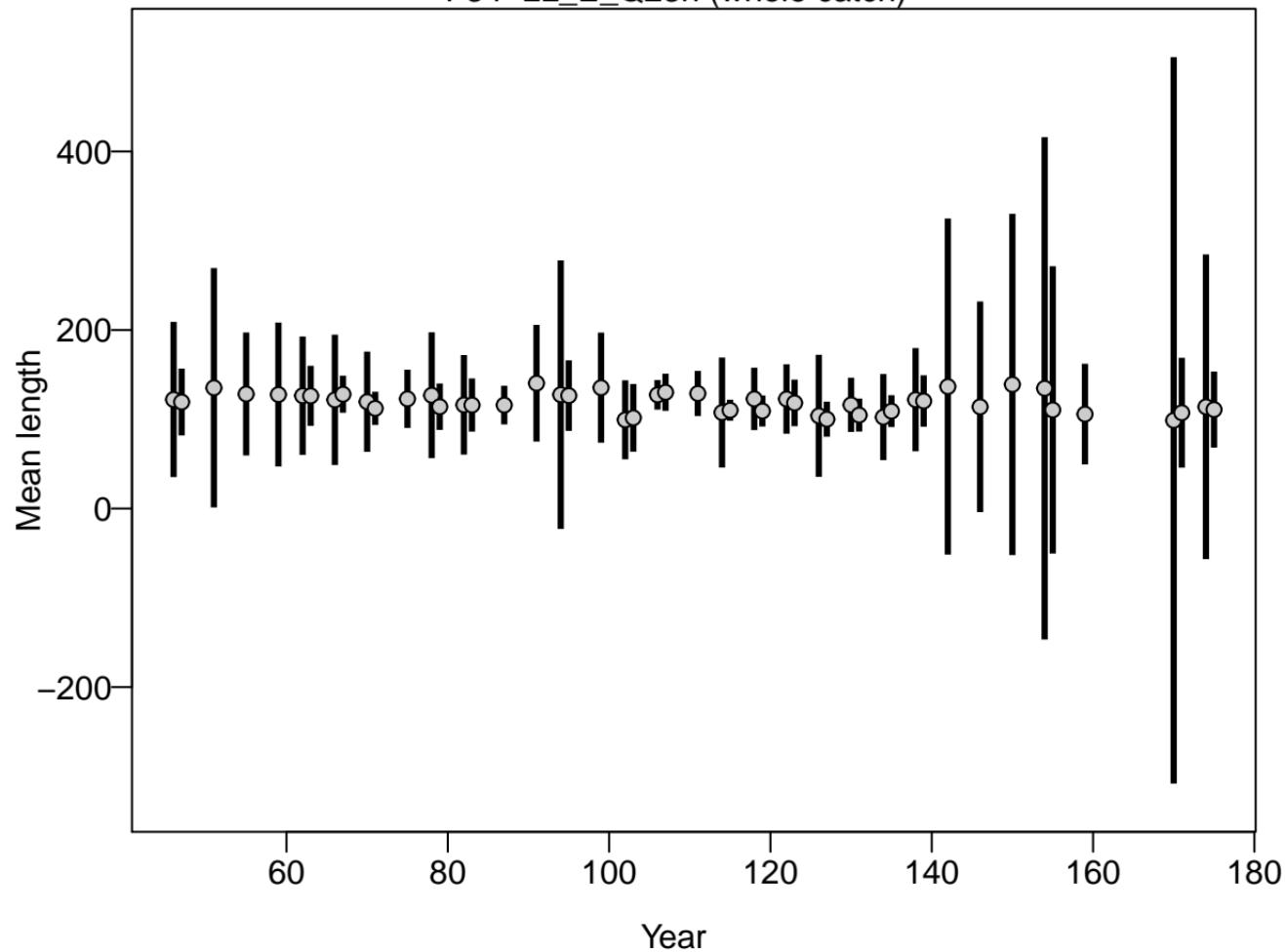


Proportion

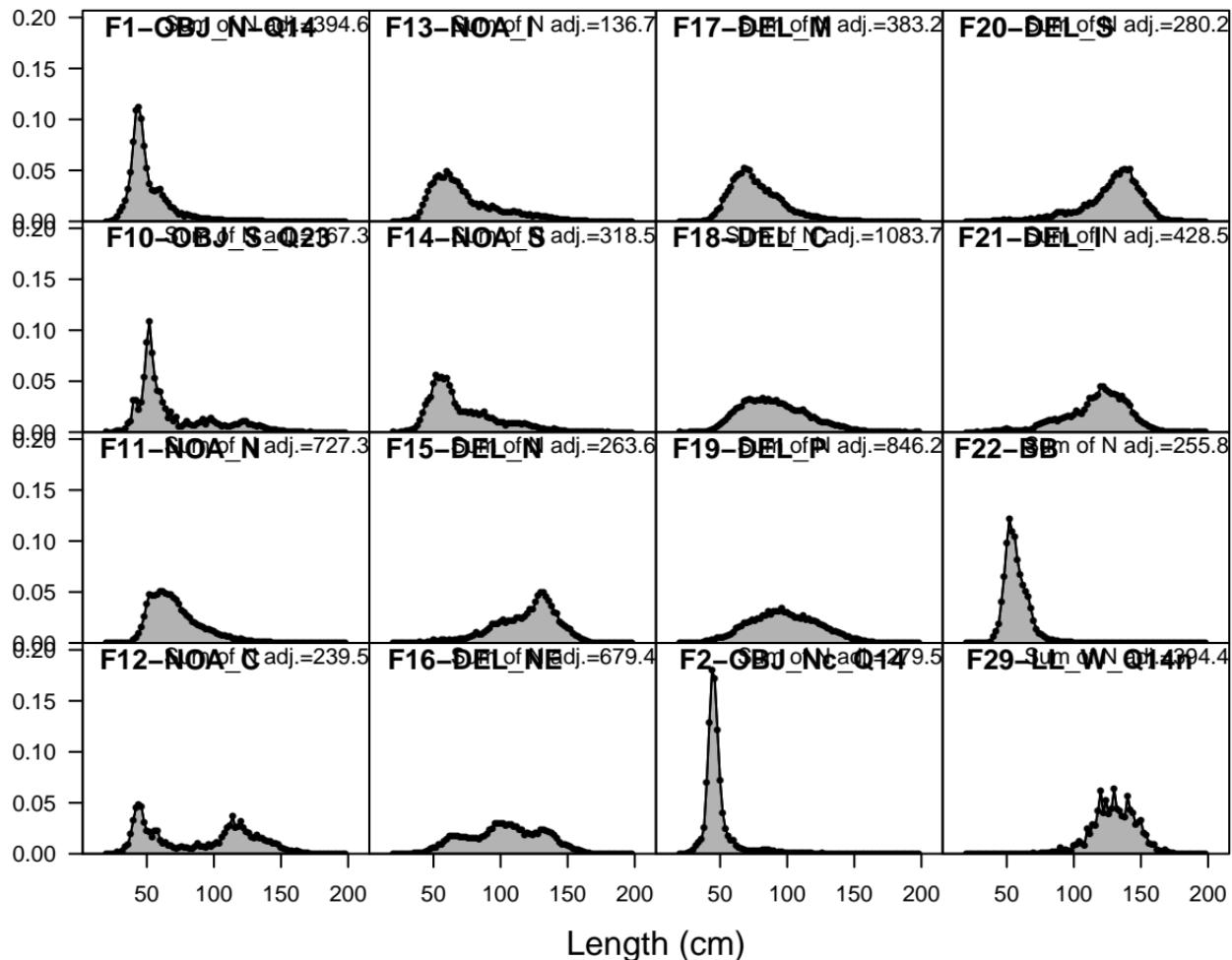


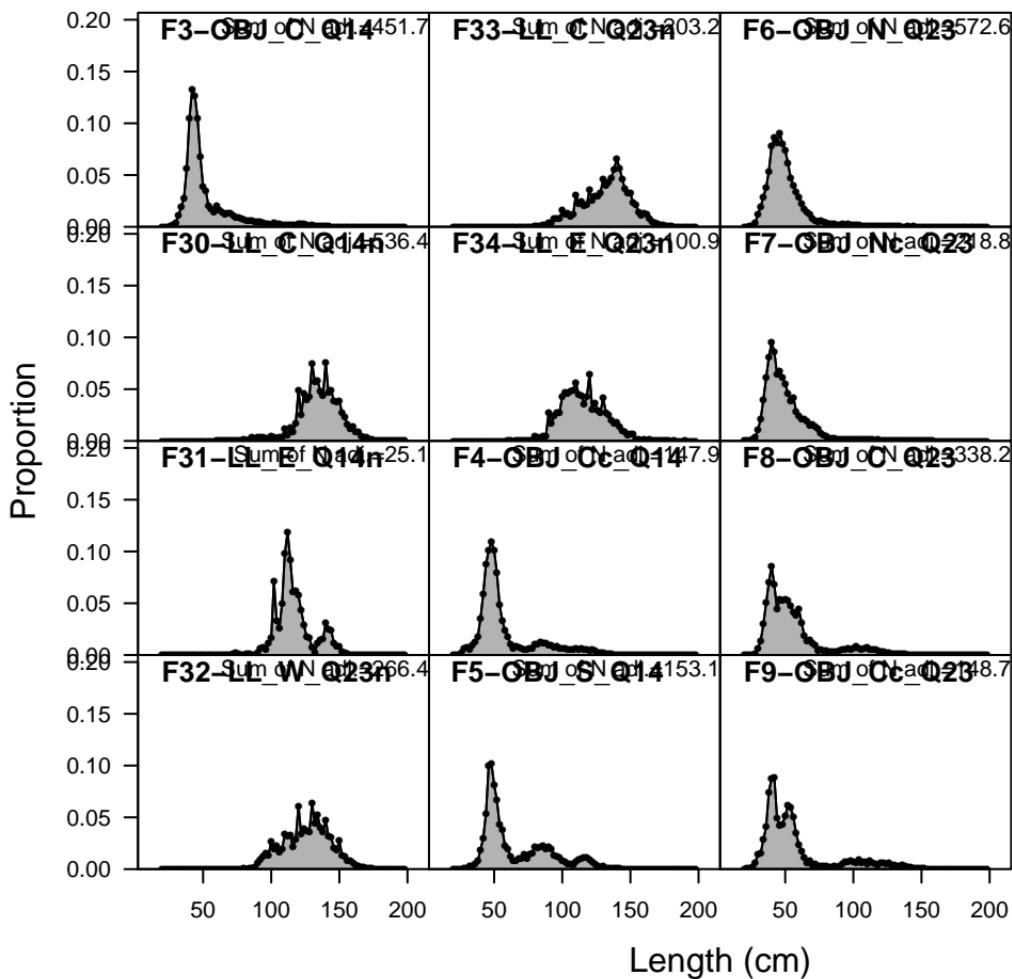


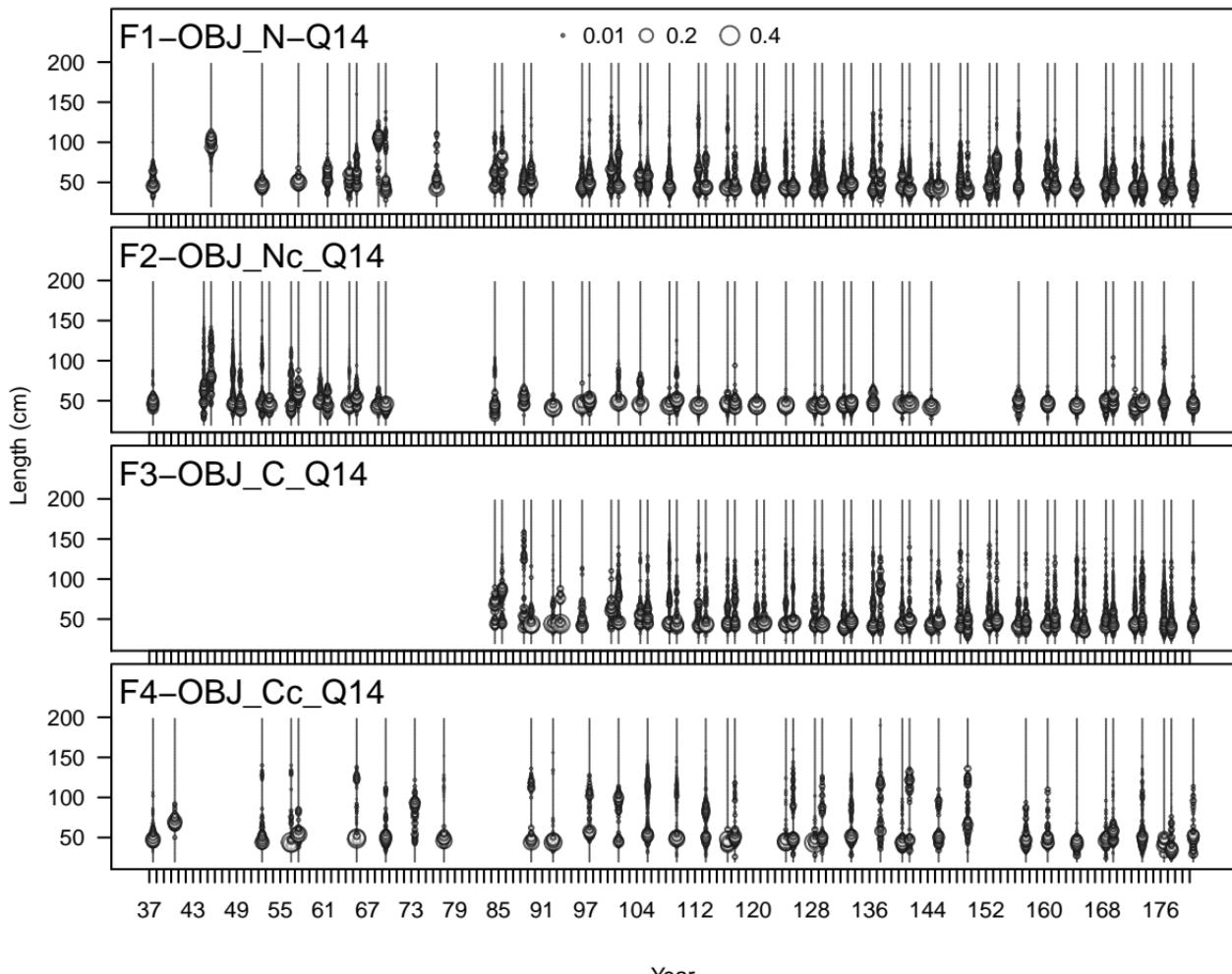
F34-LL_E_Q23n (whole catch)

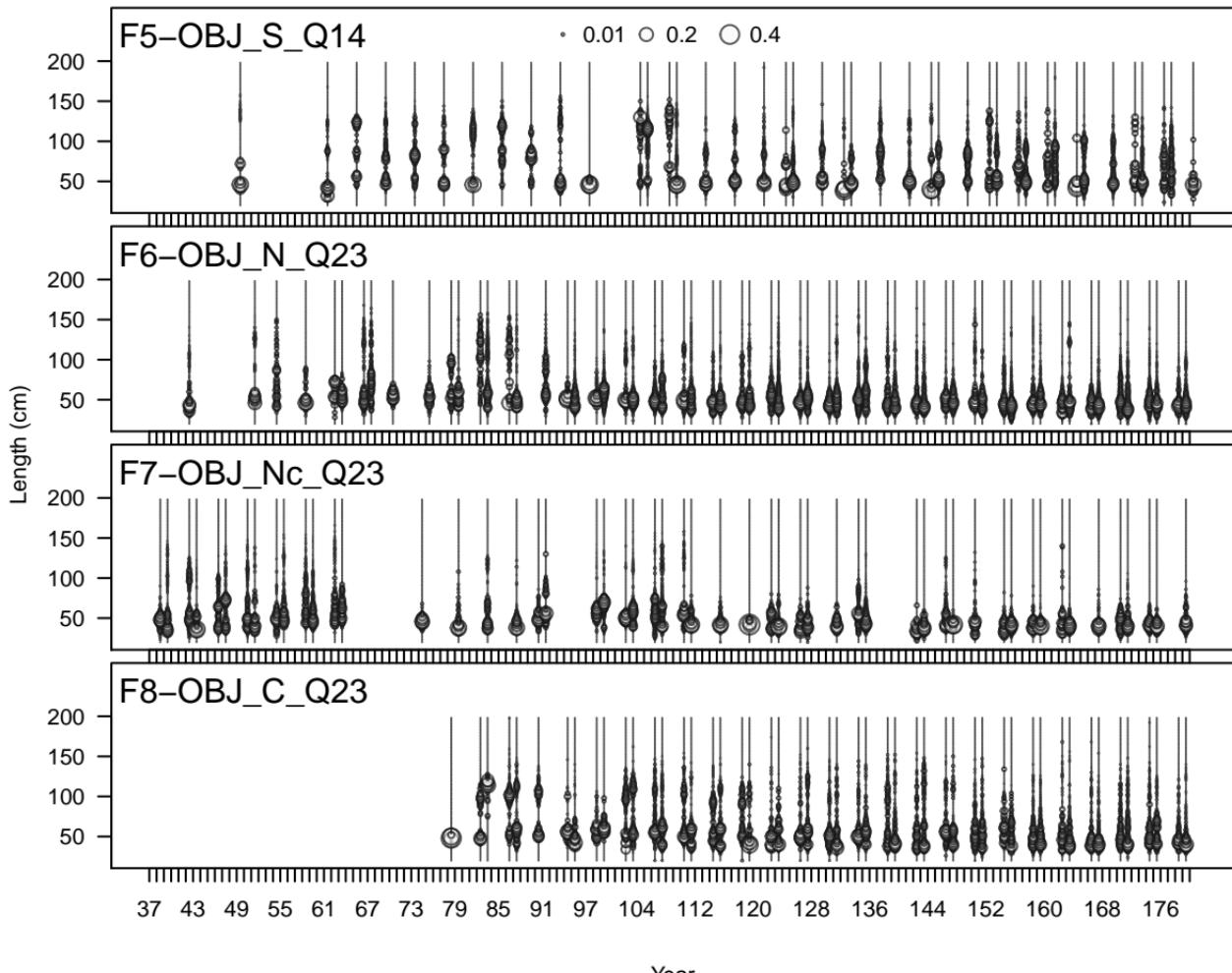


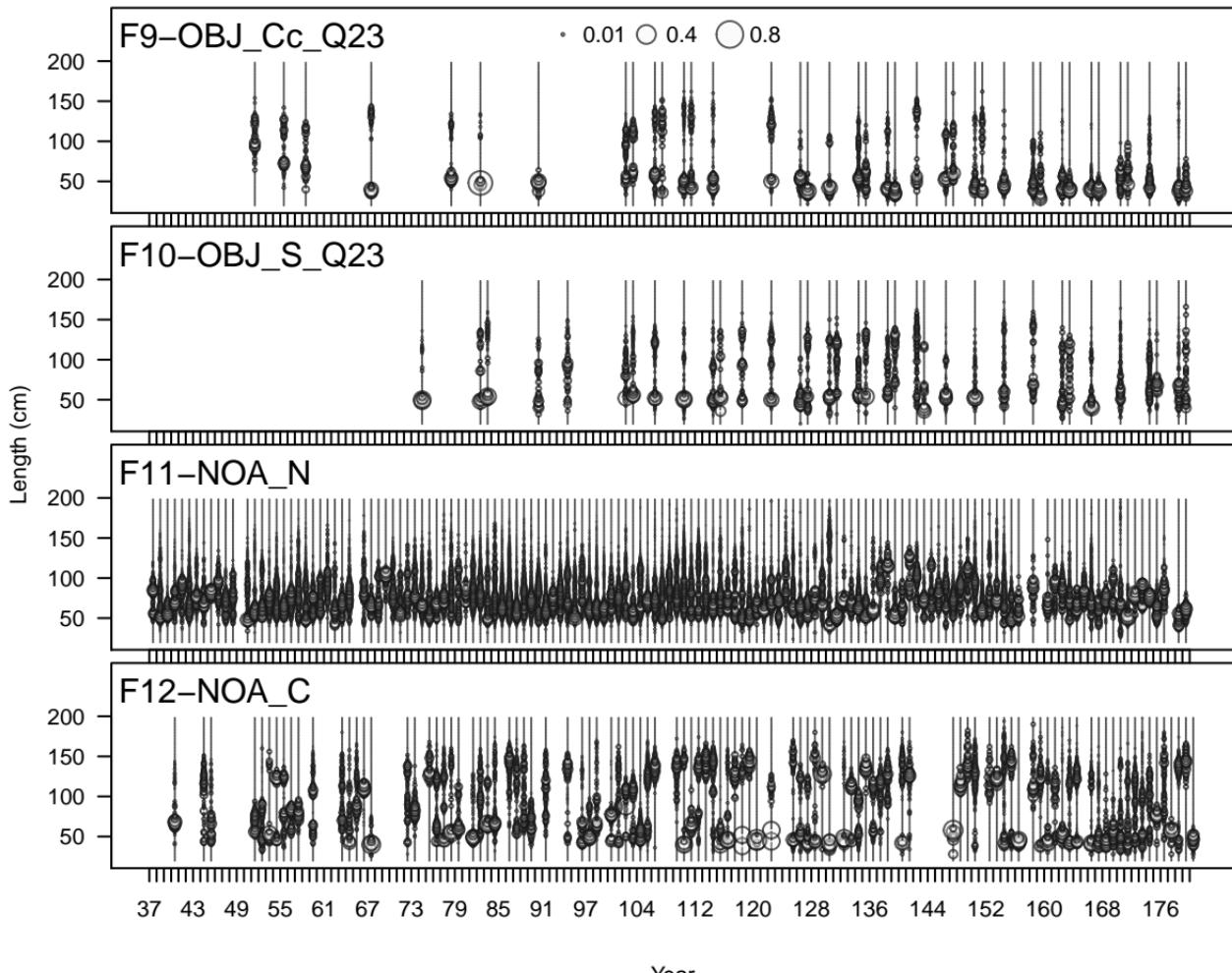
Proportion

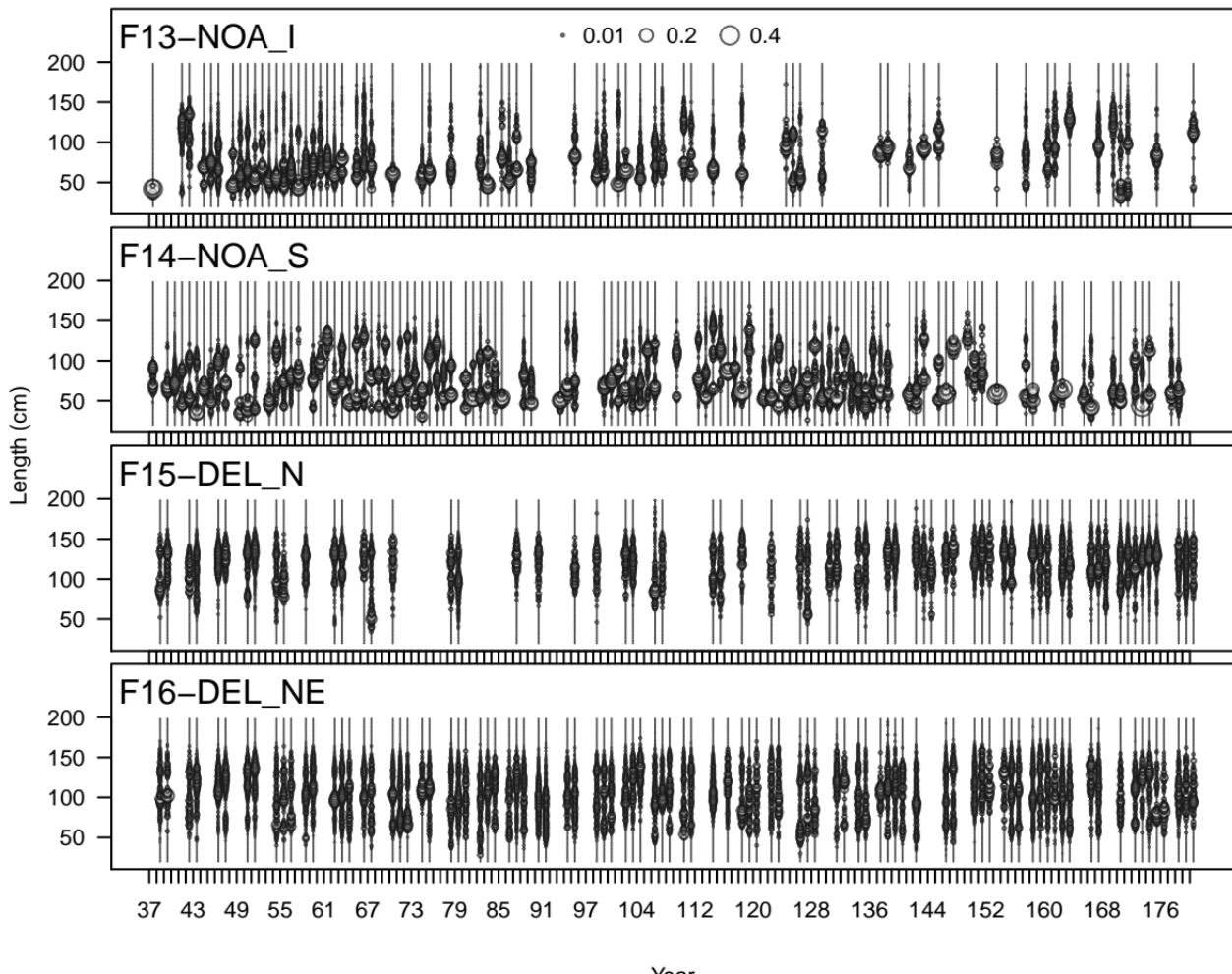


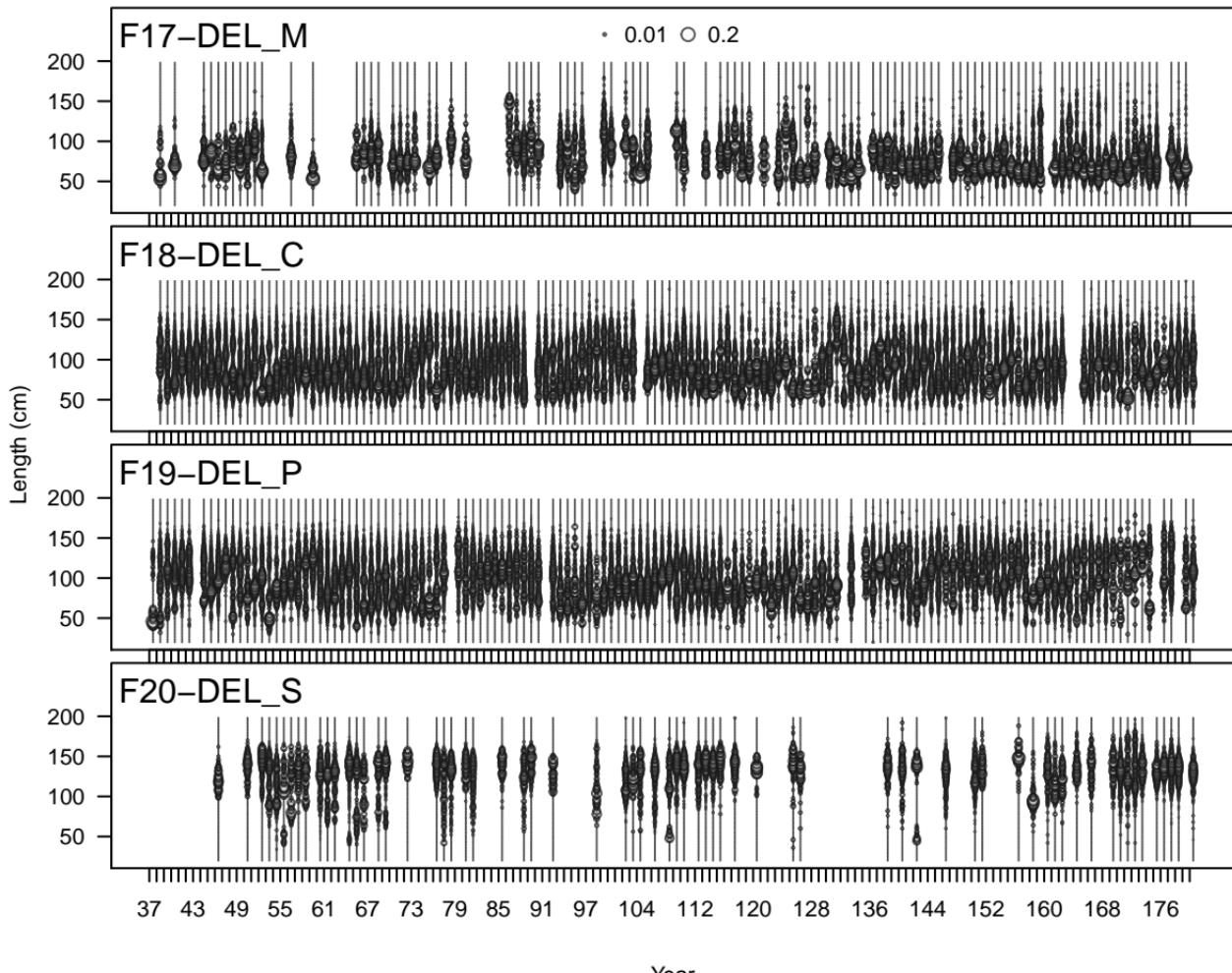


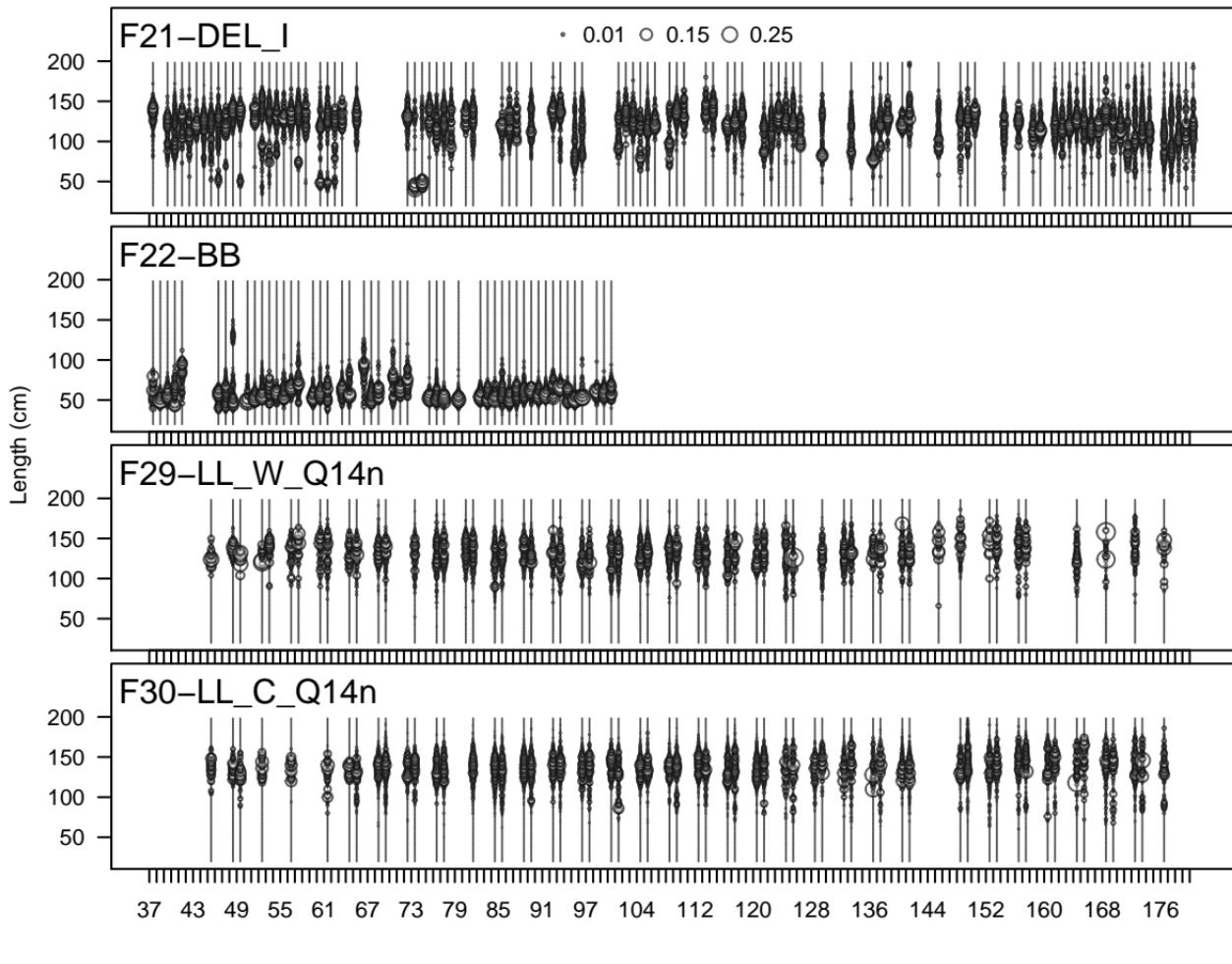


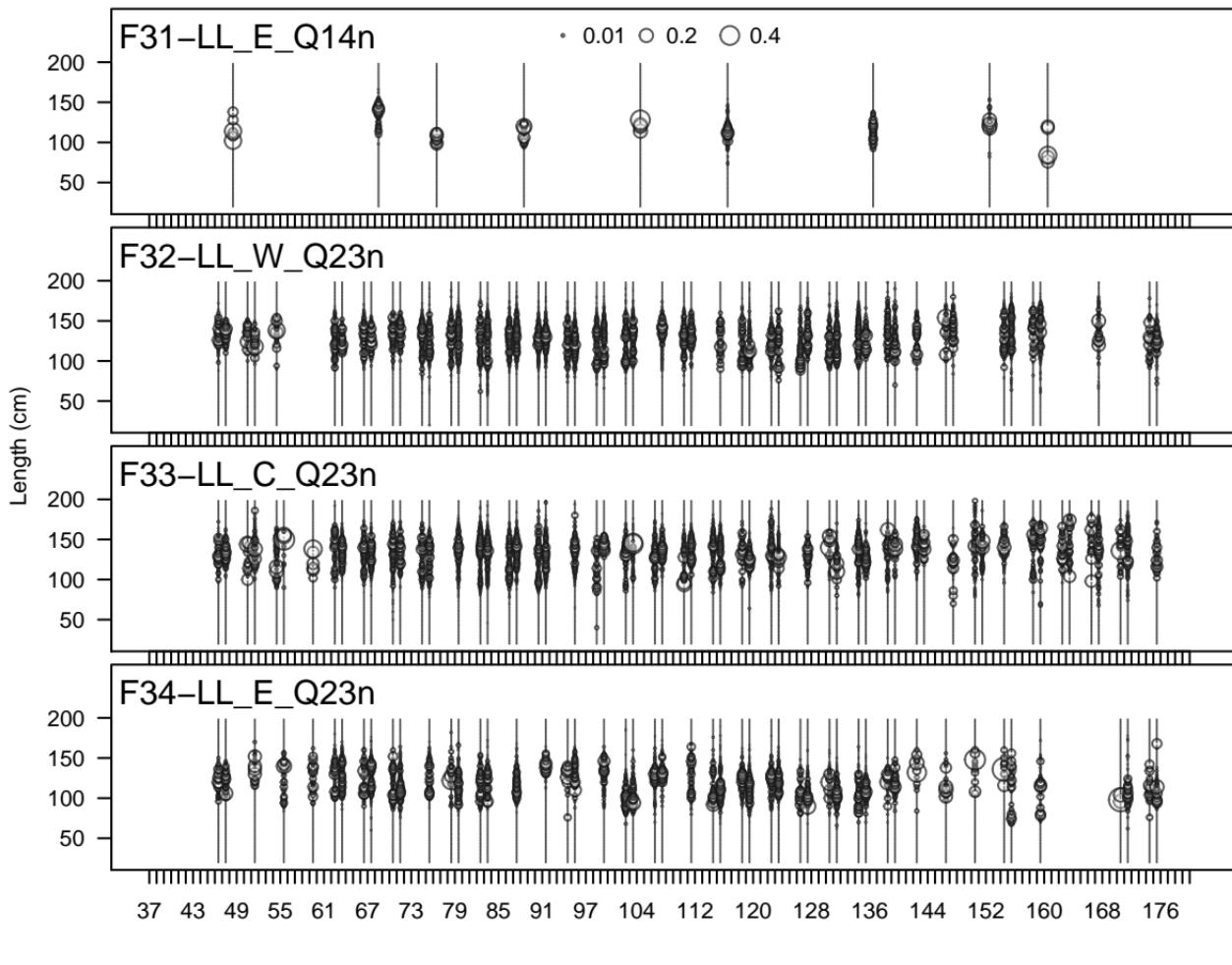




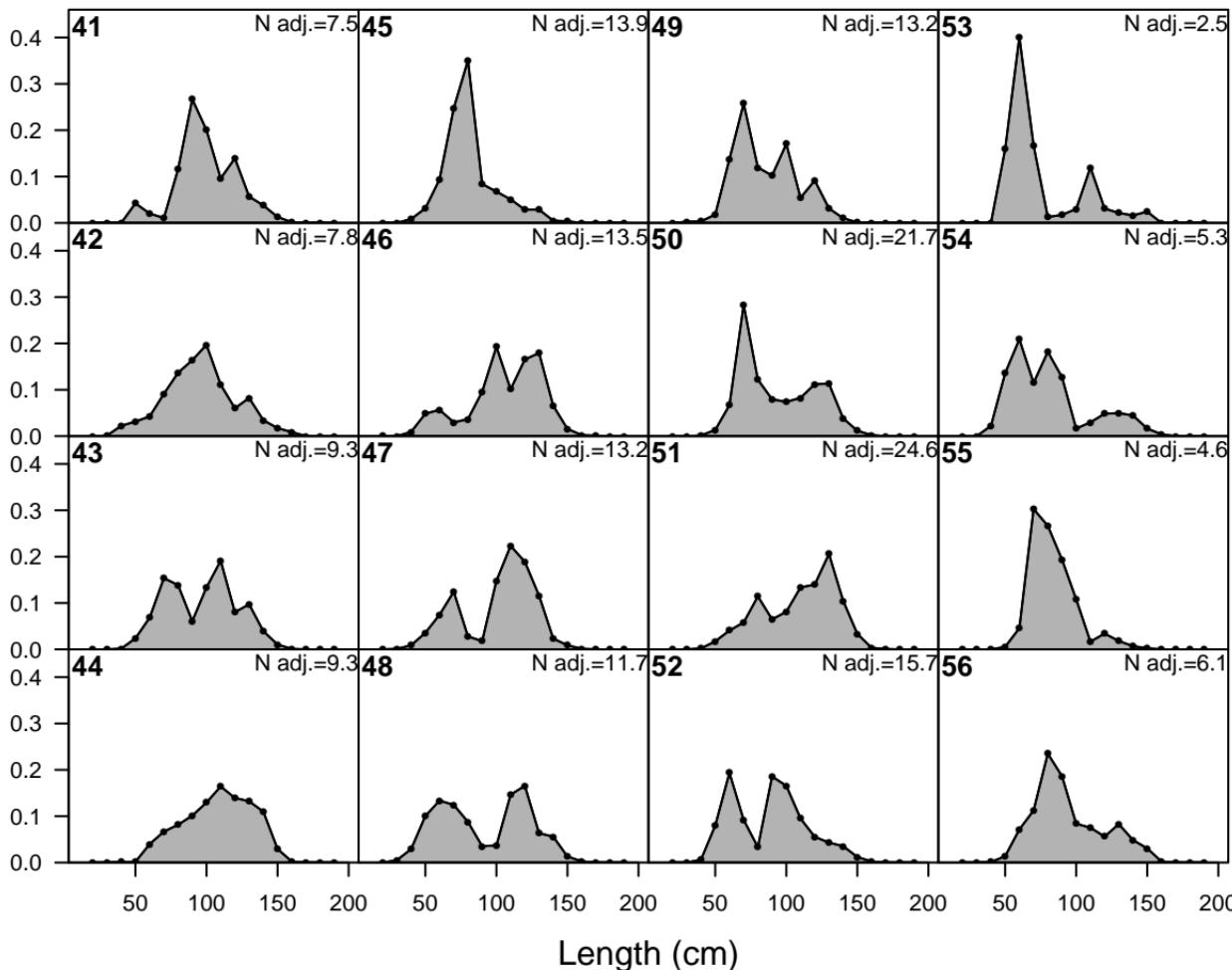




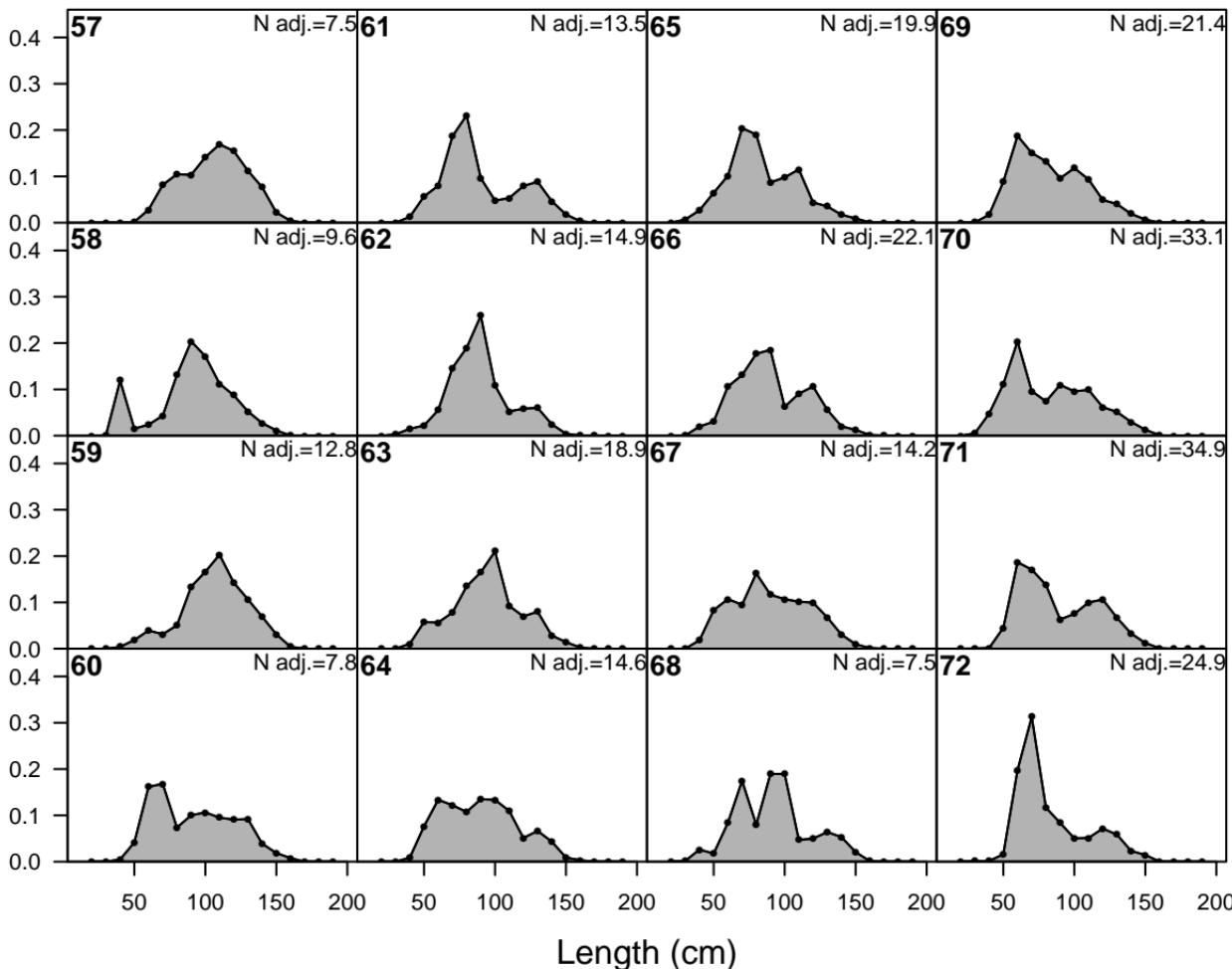




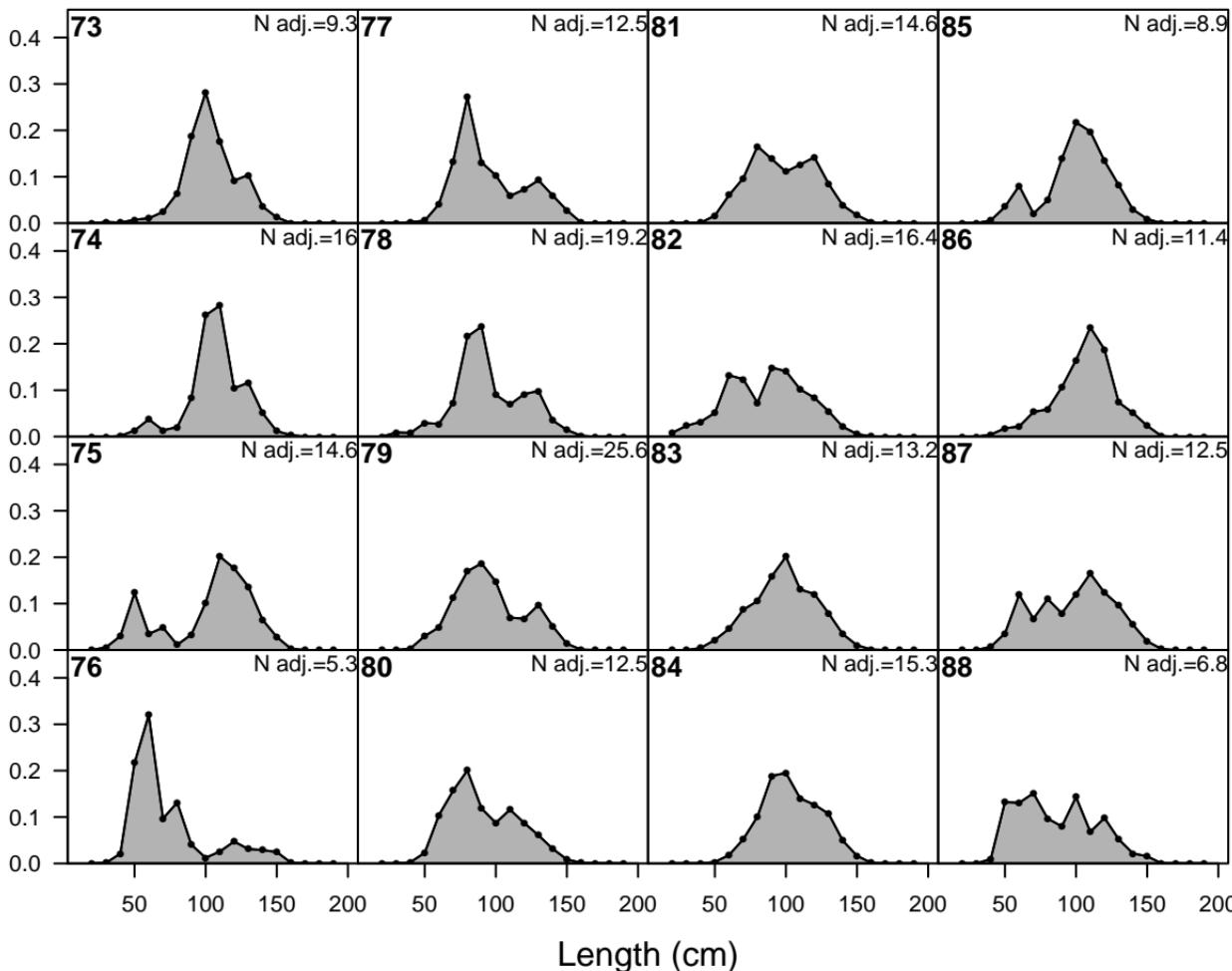
Proportion



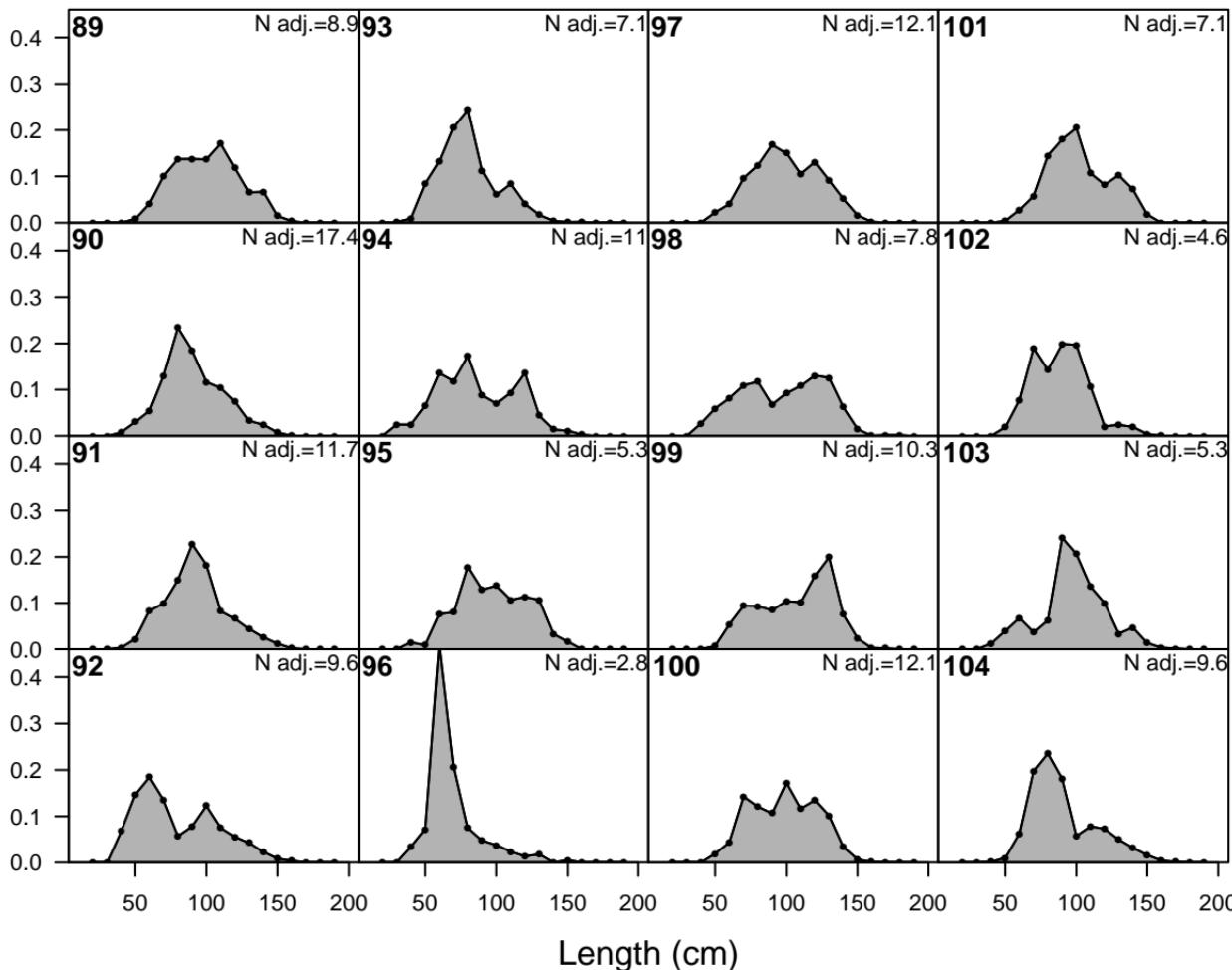
Proportion



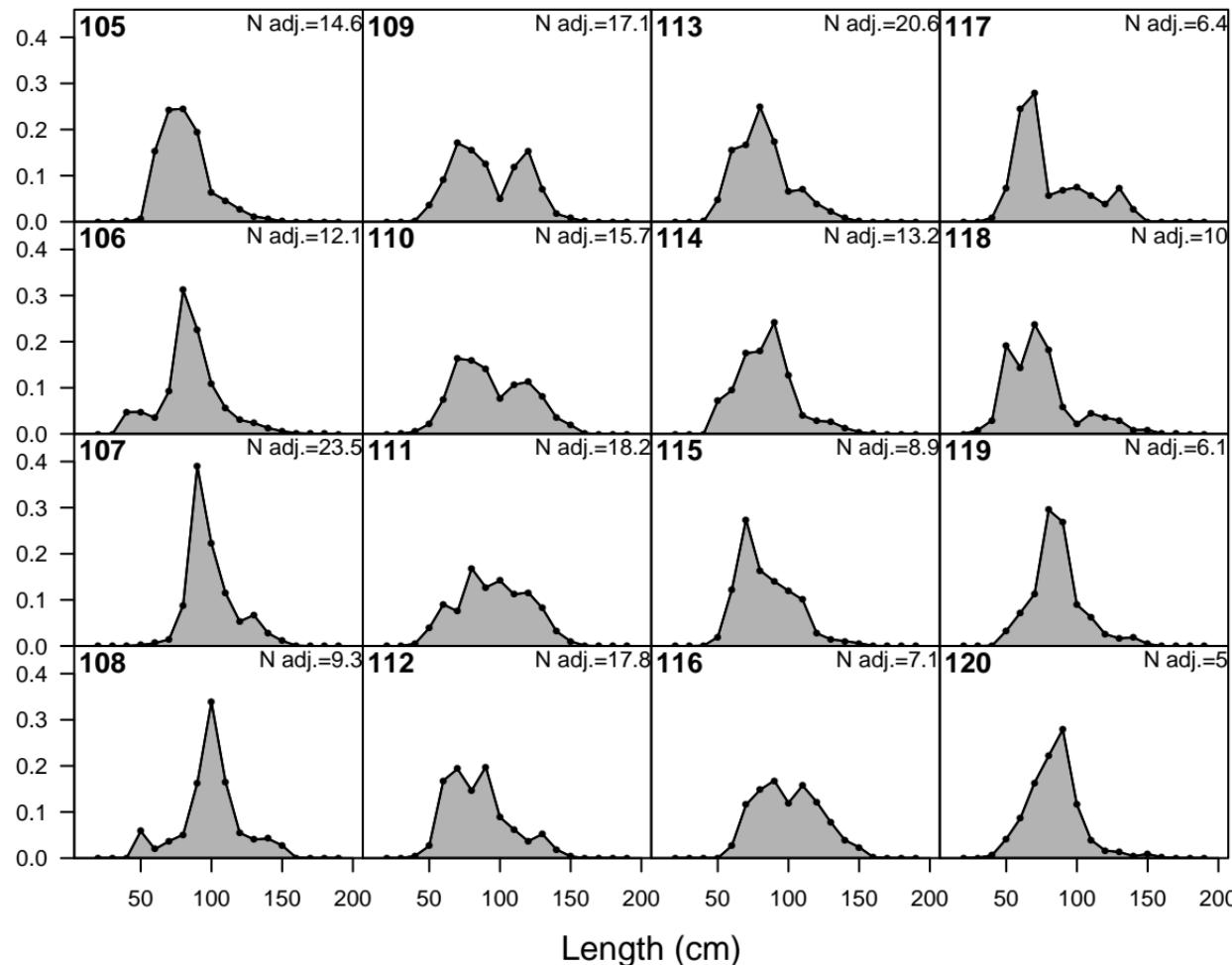
Proportion



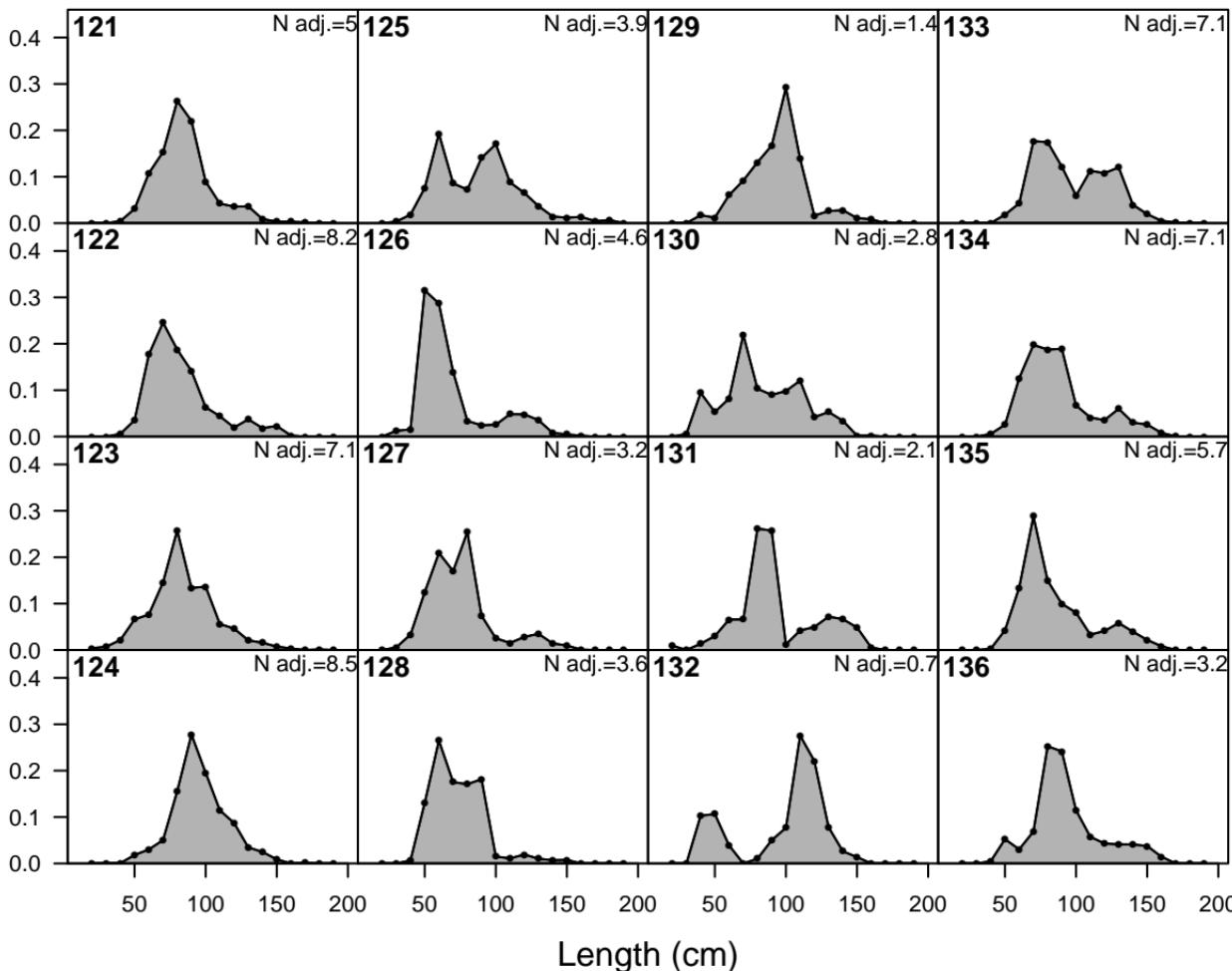
Proportion



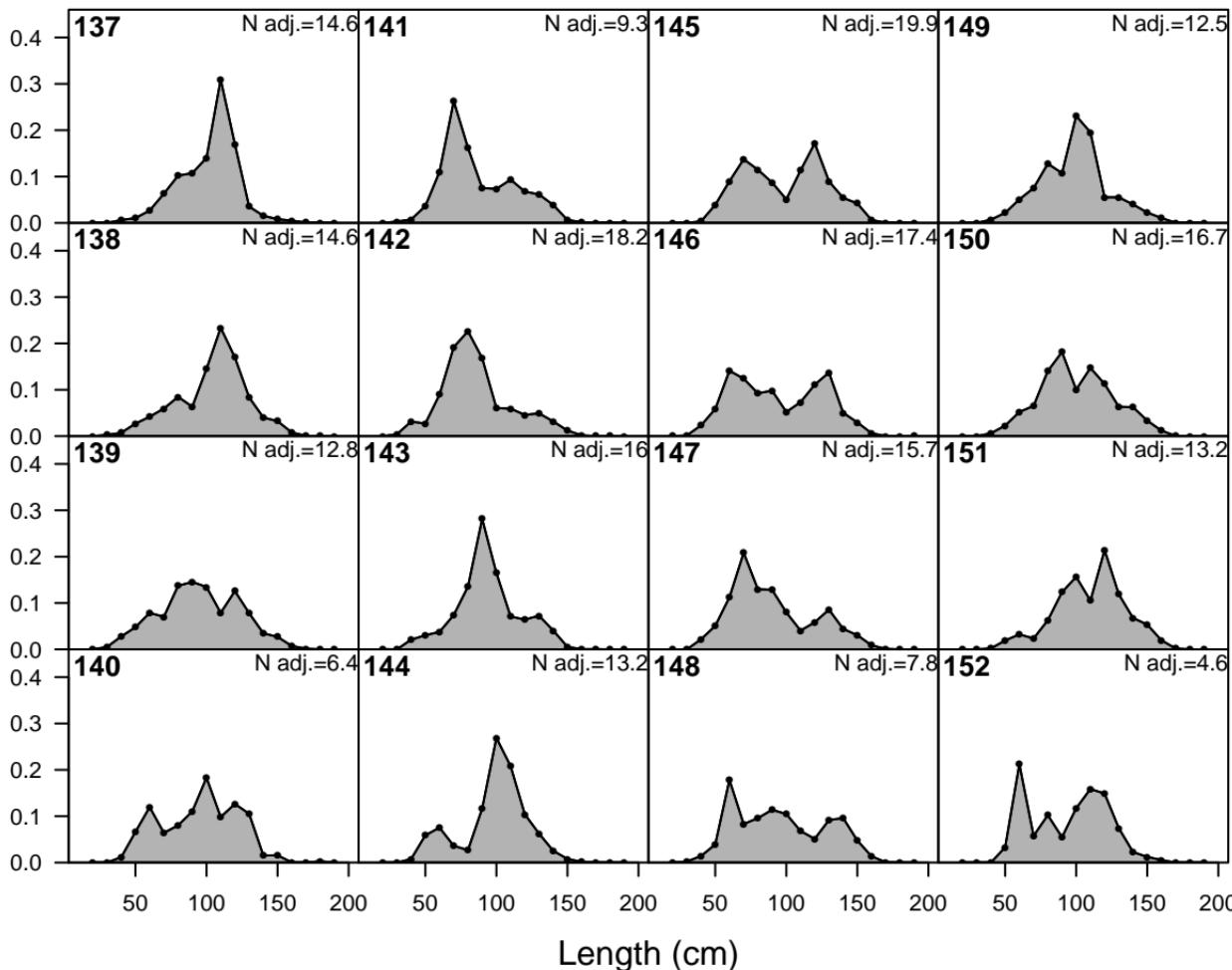
Proportion



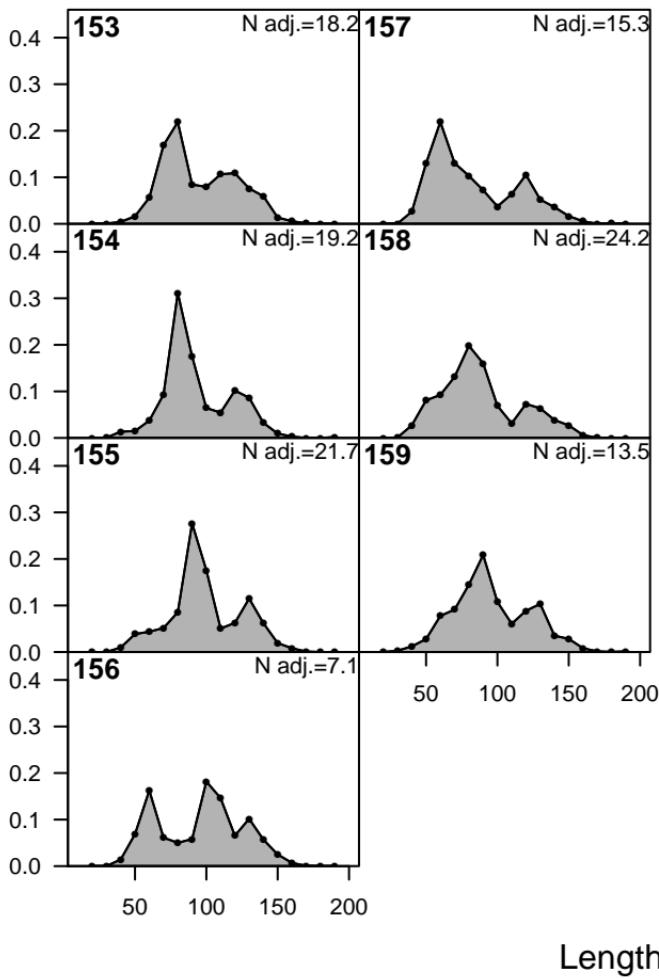
Proportion

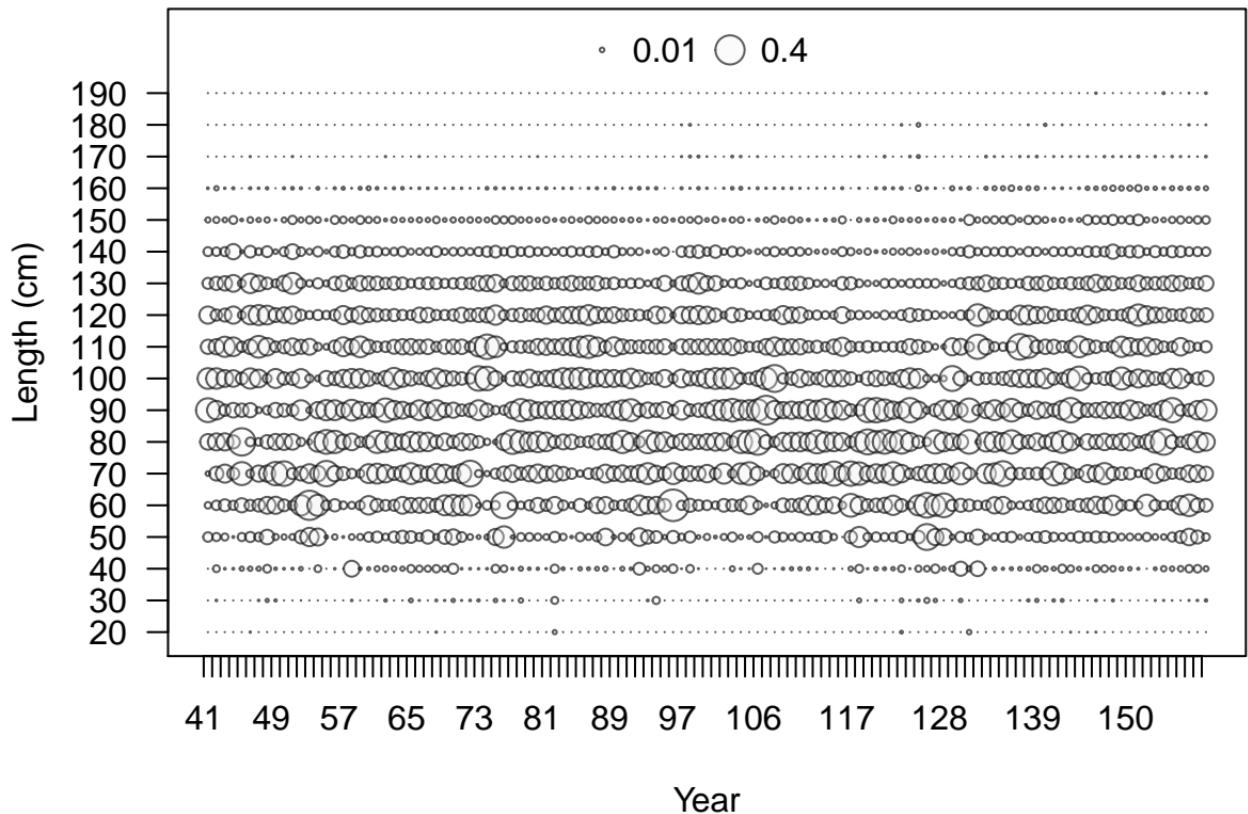


Proportion

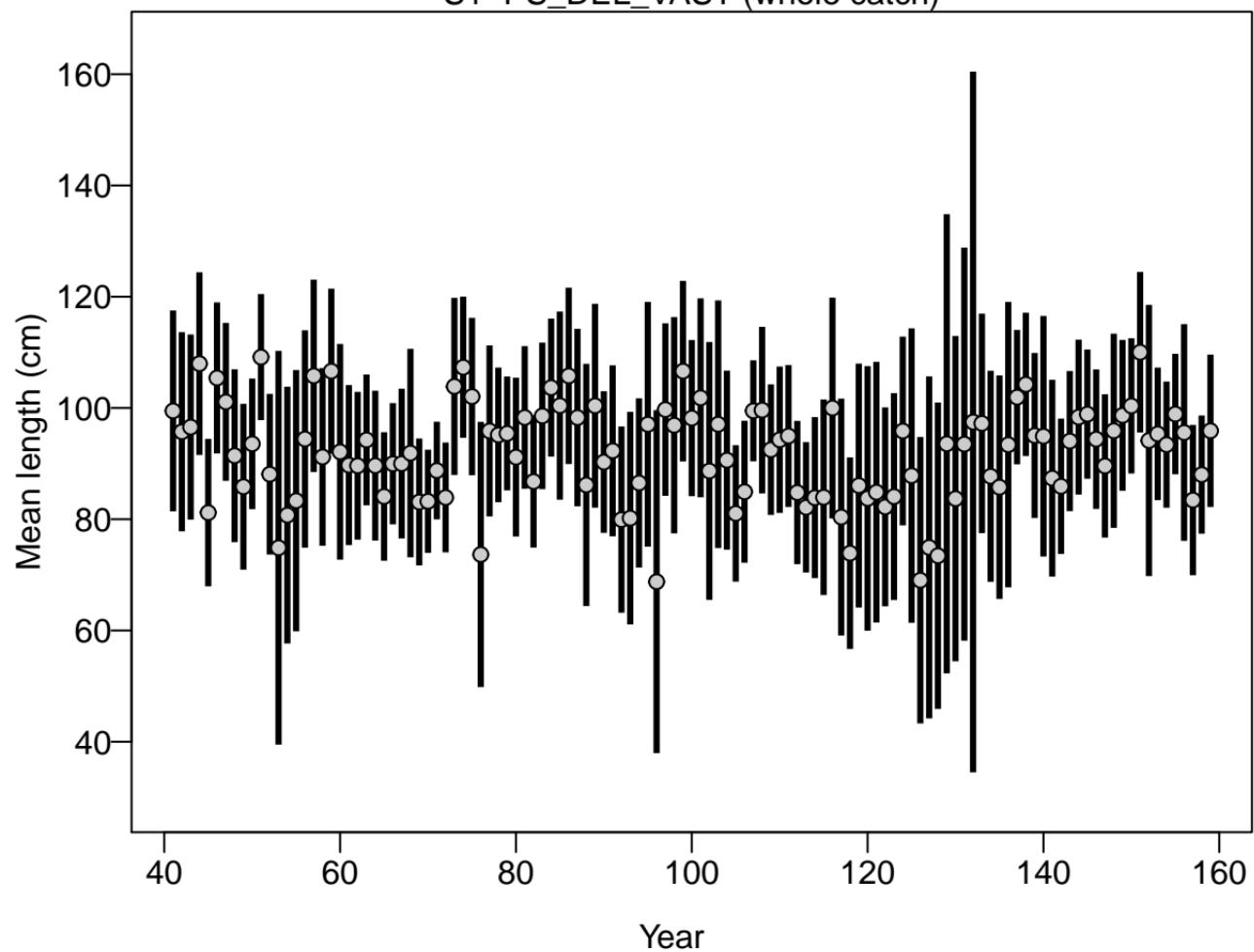


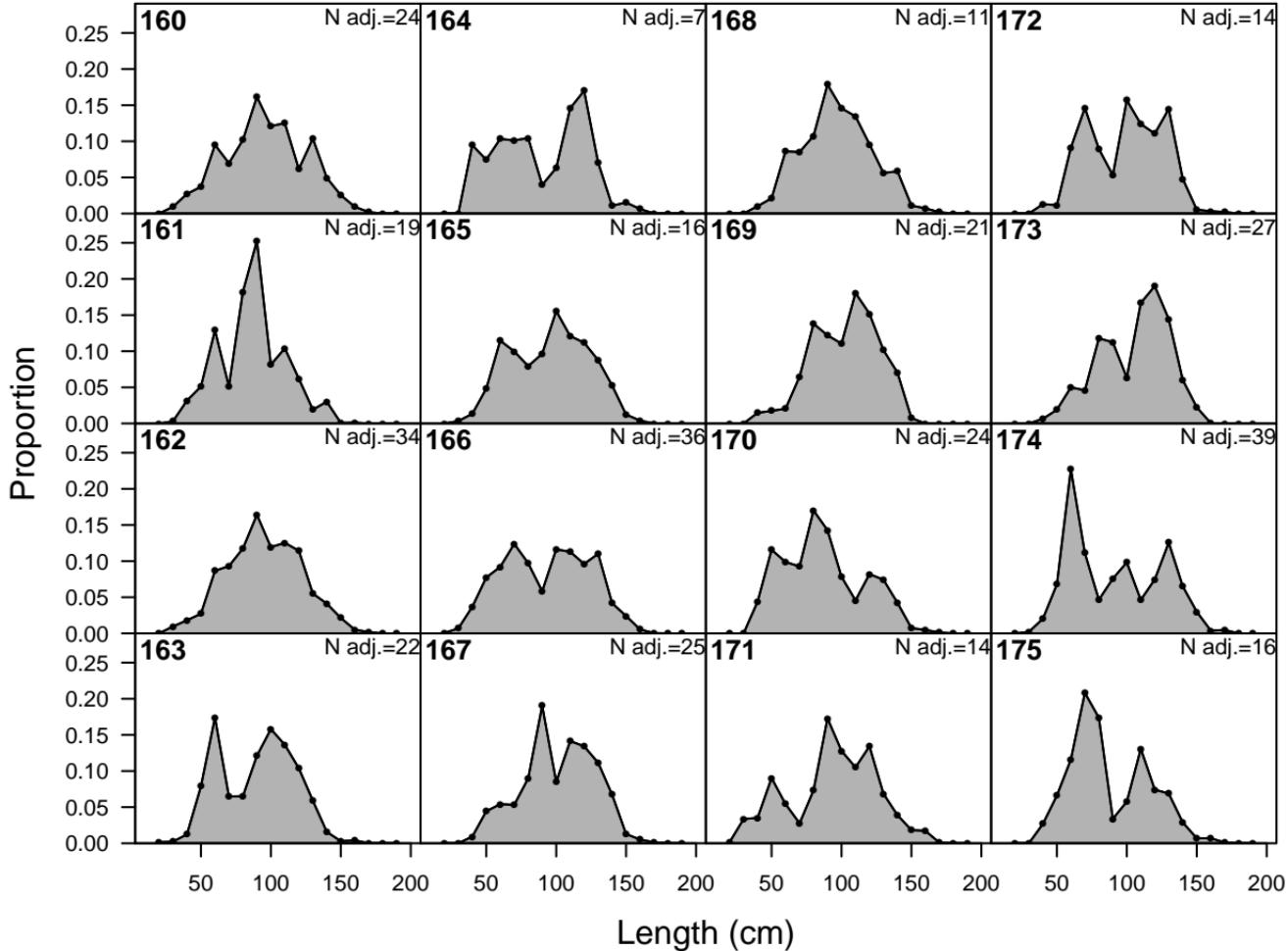
Proportion



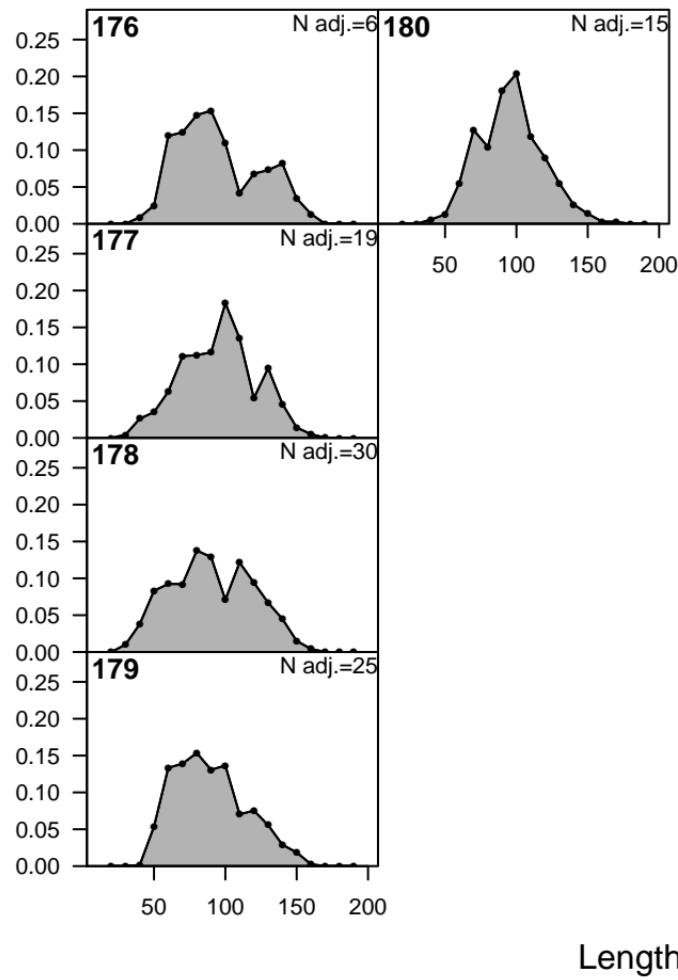


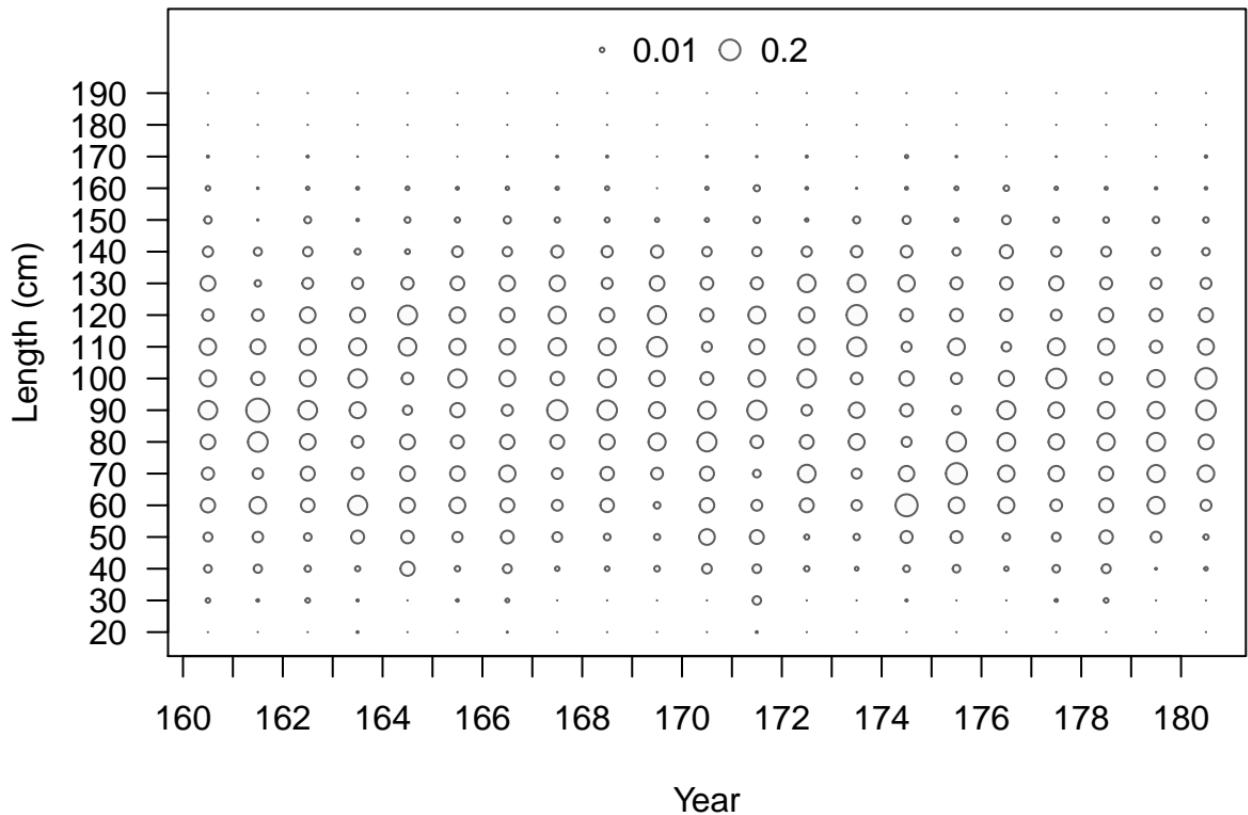
S1-PS_DEL_VAST (whole catch)



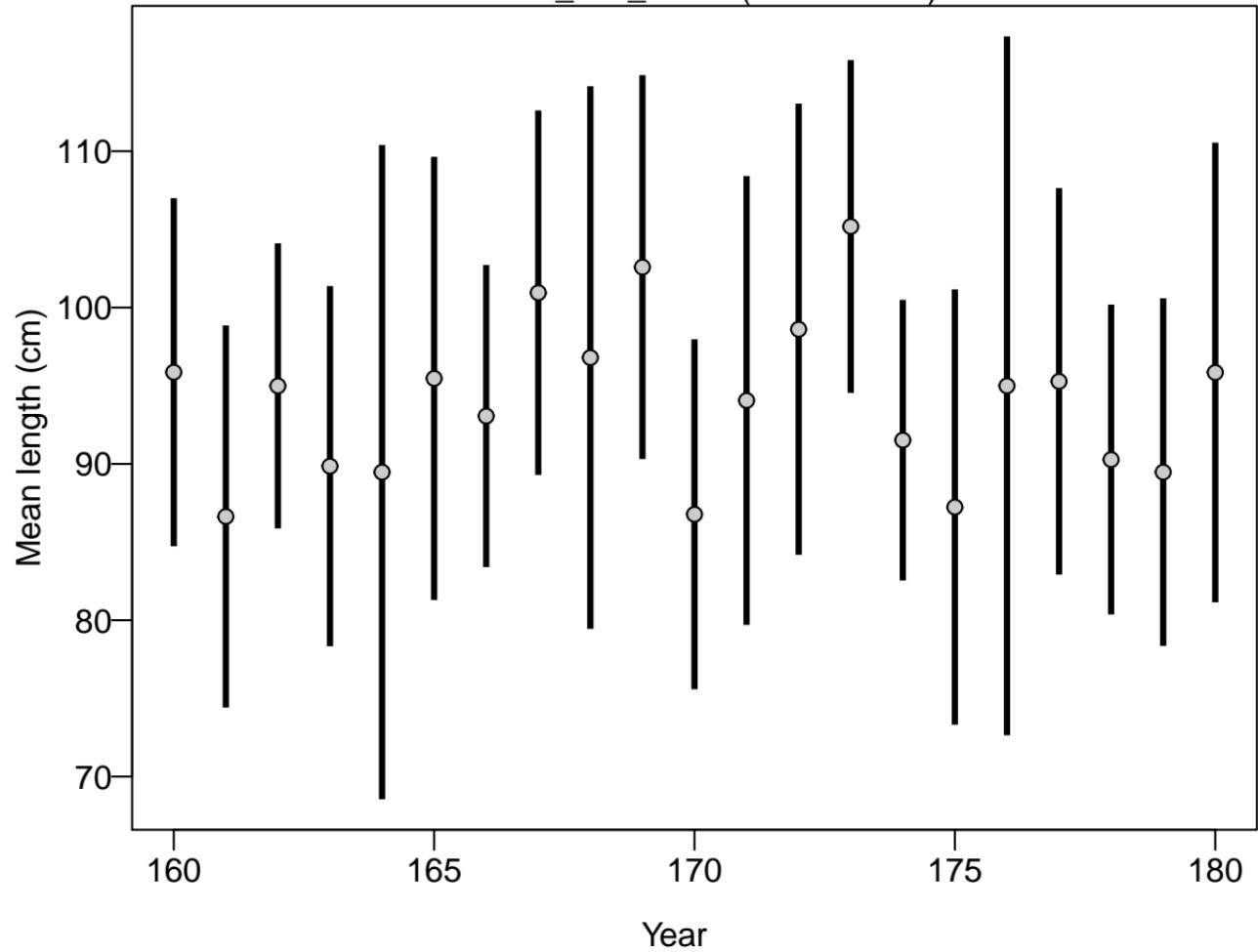


Proportion

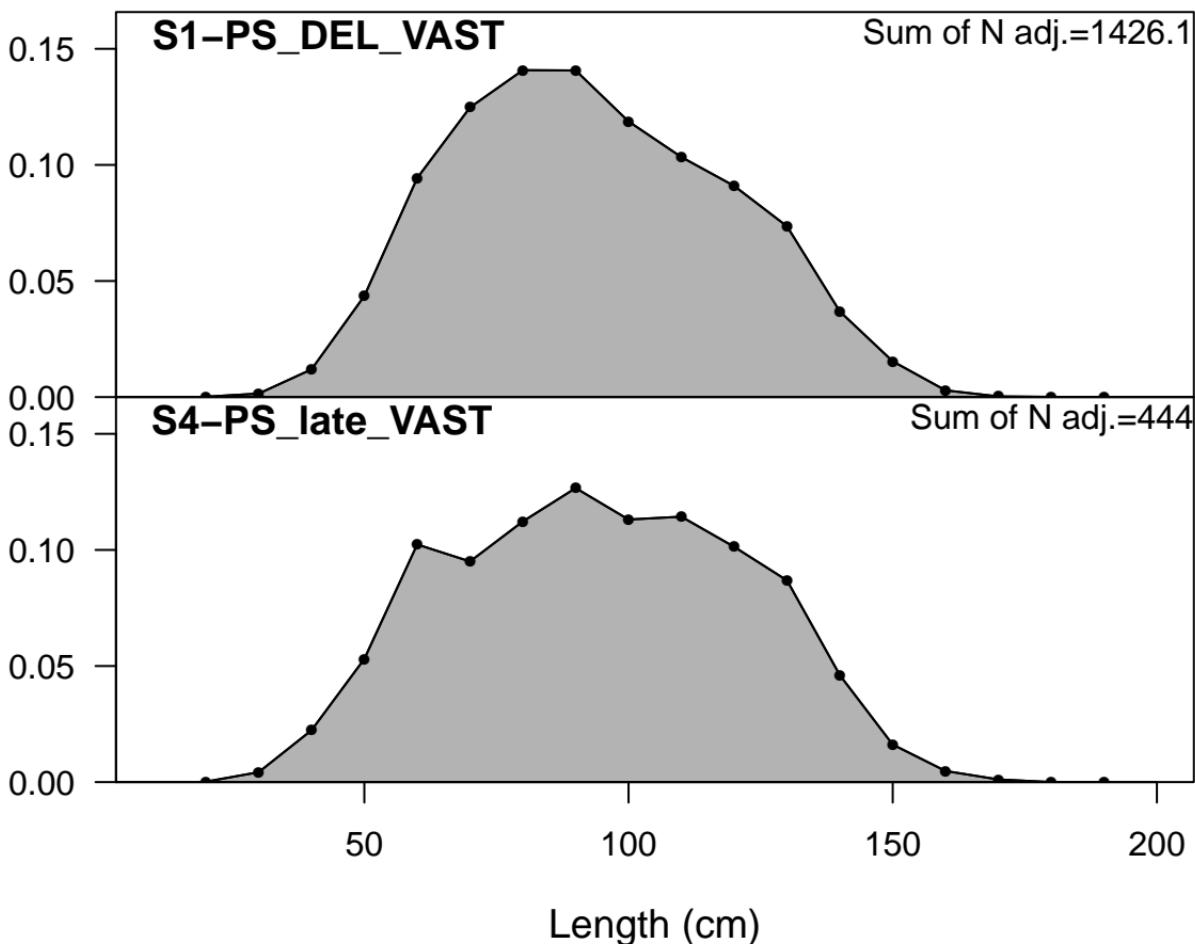




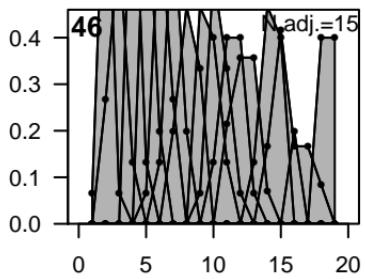
S4-PS_late_VAST (whole catch)



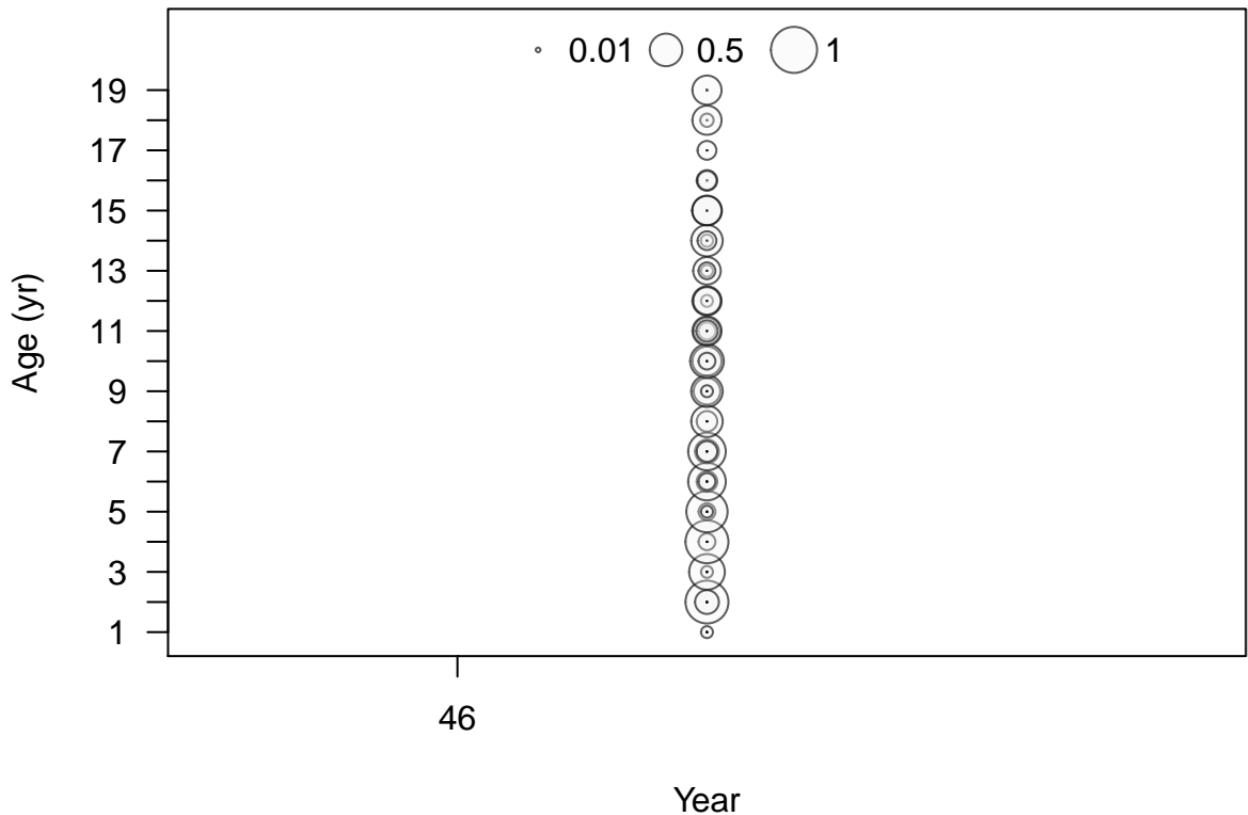
Proportion

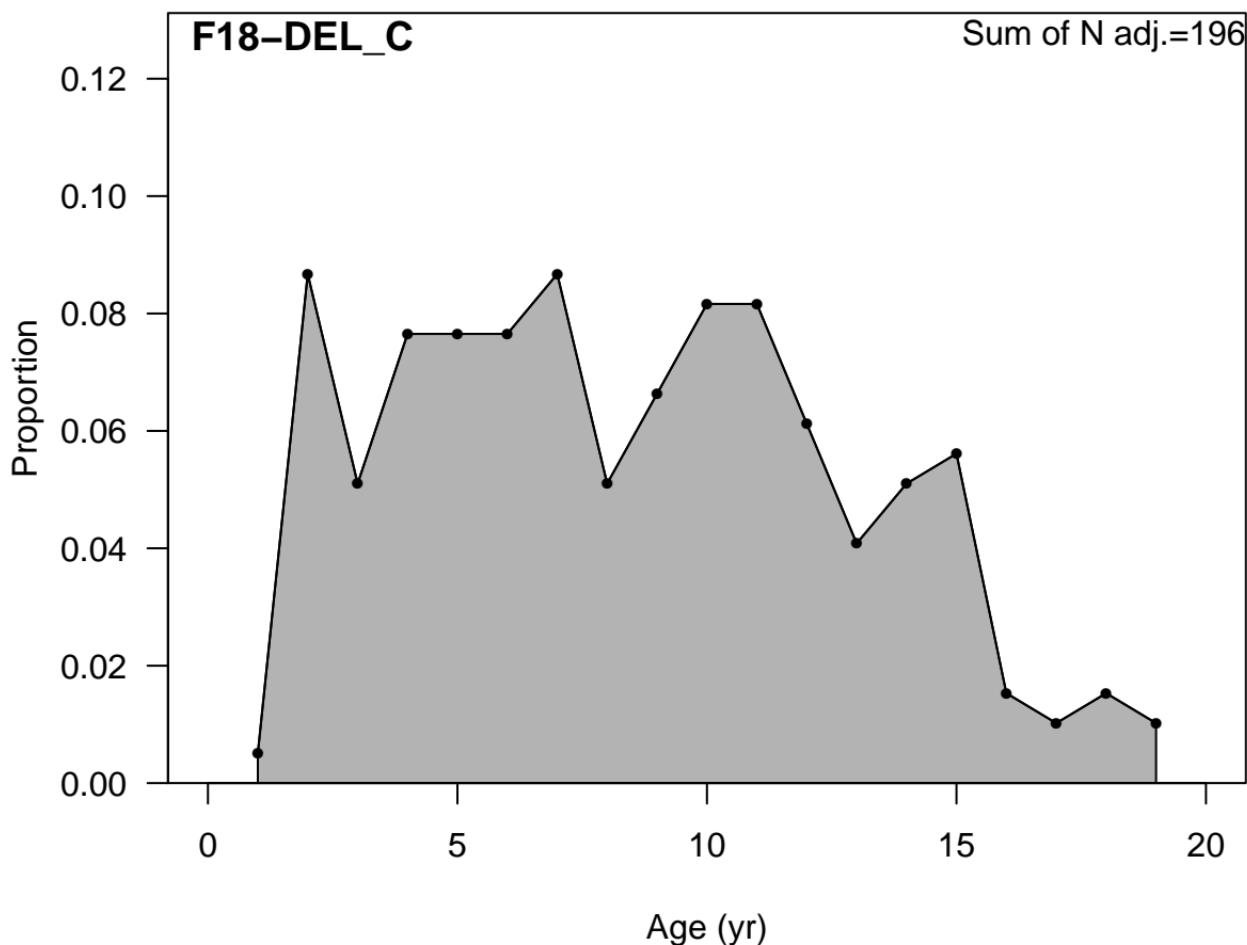


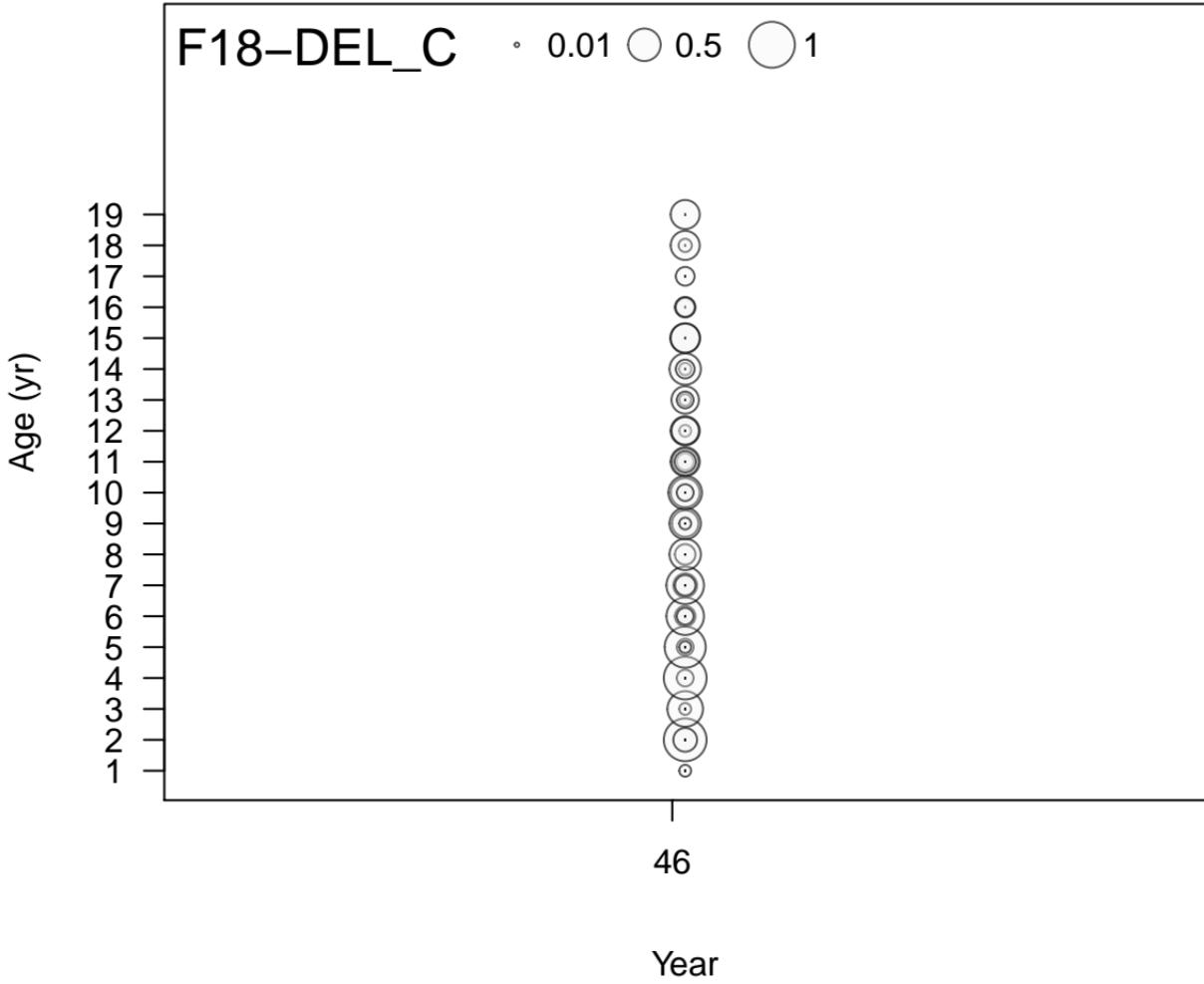
Proportion



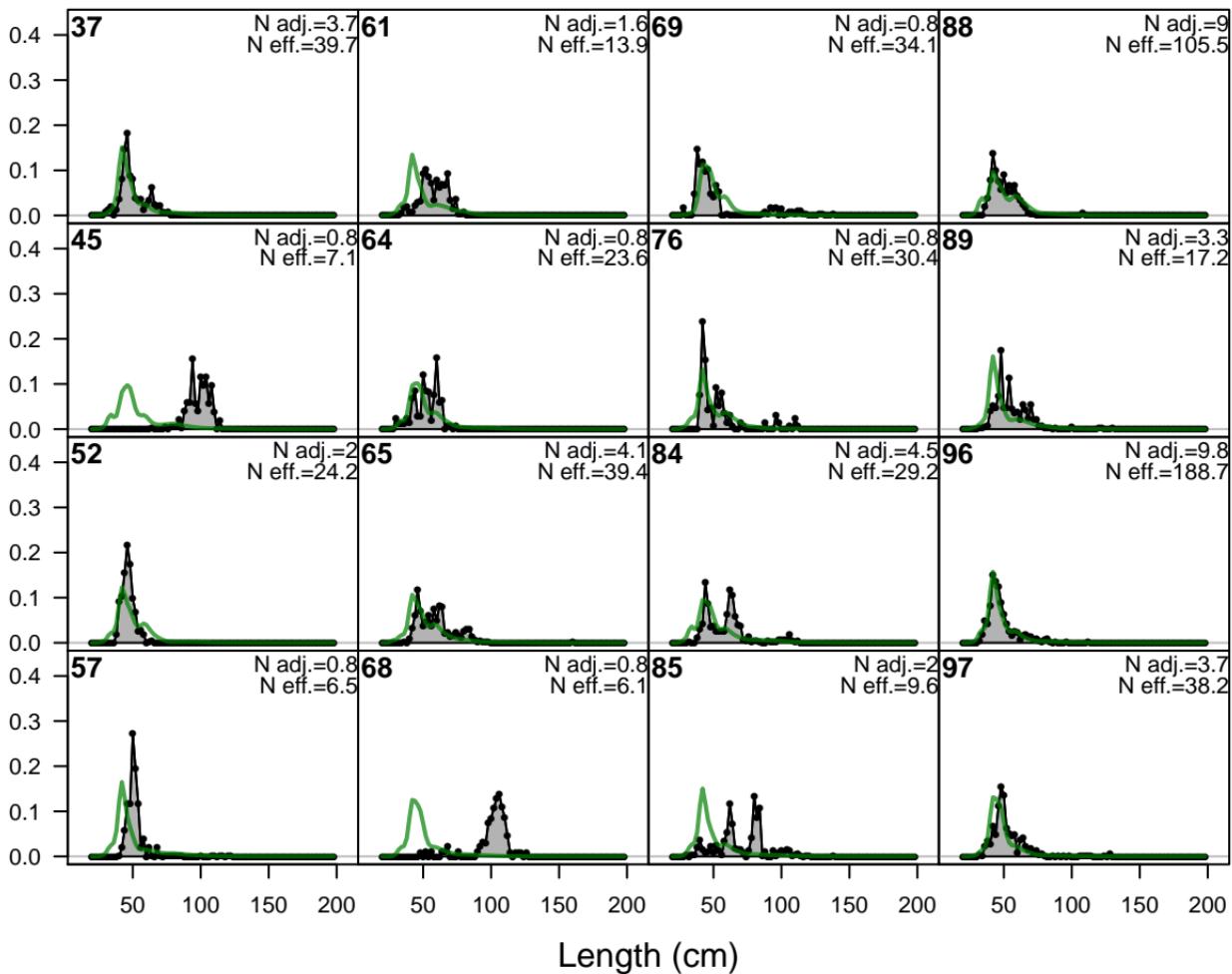
Age (yr)



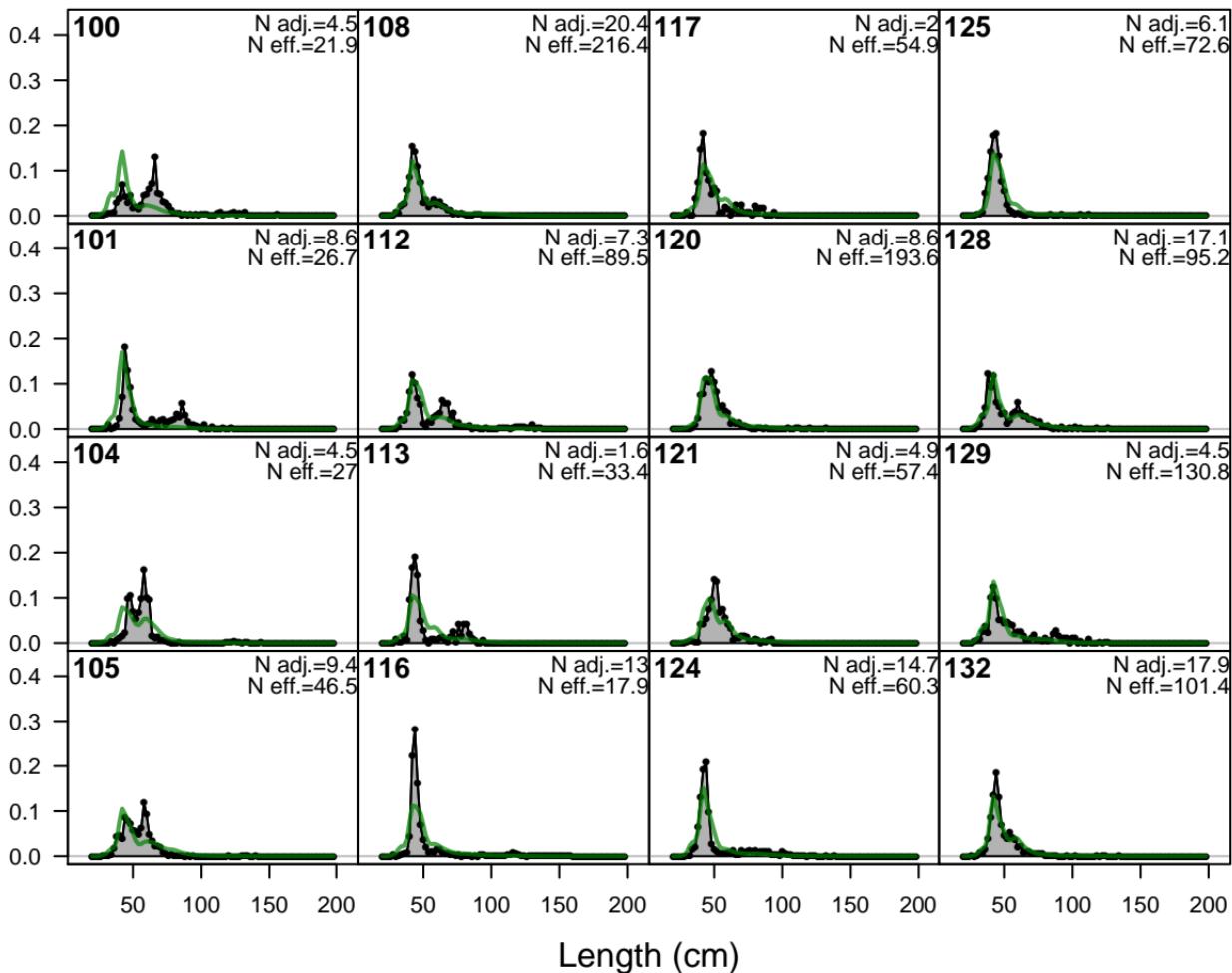




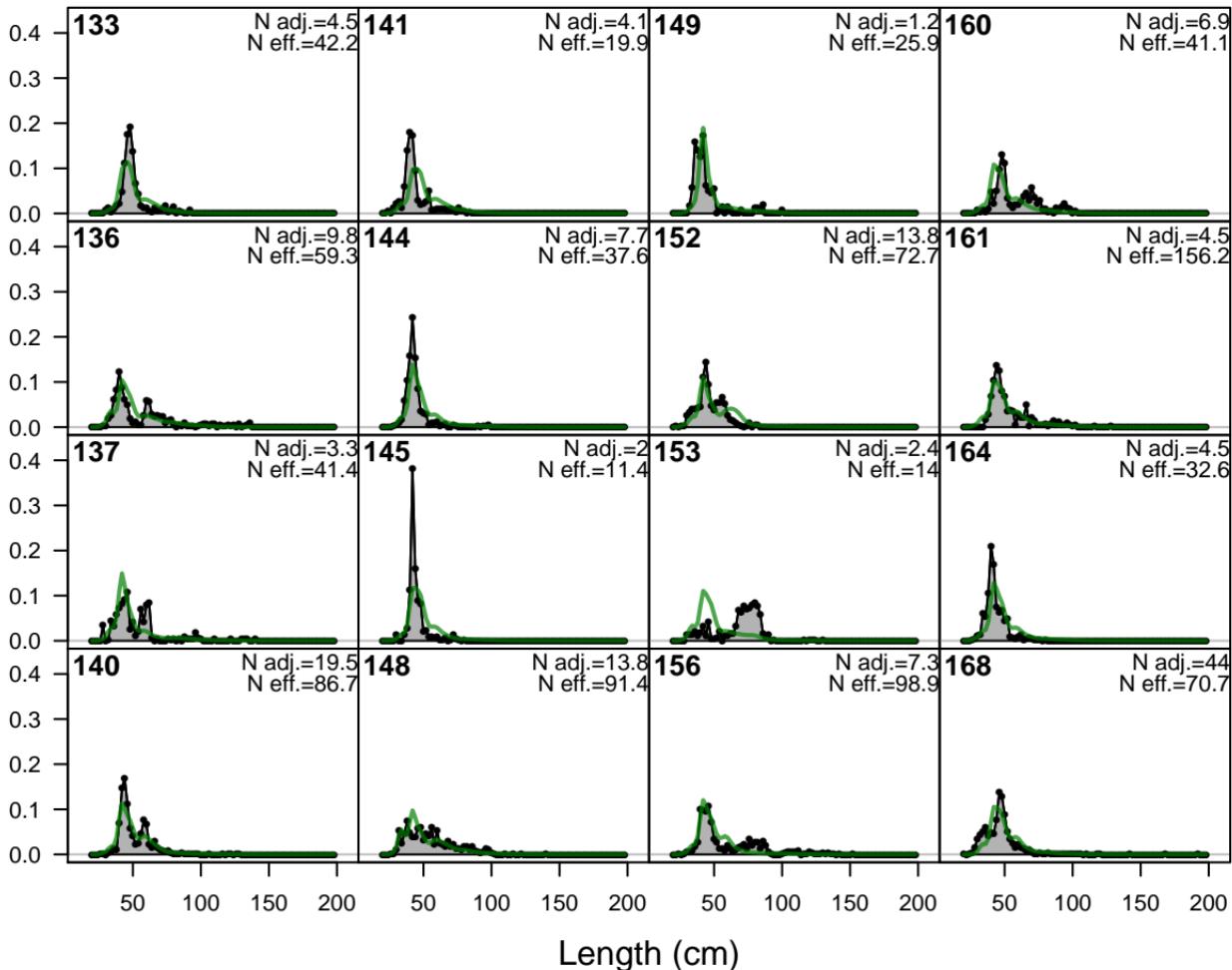
Proportion



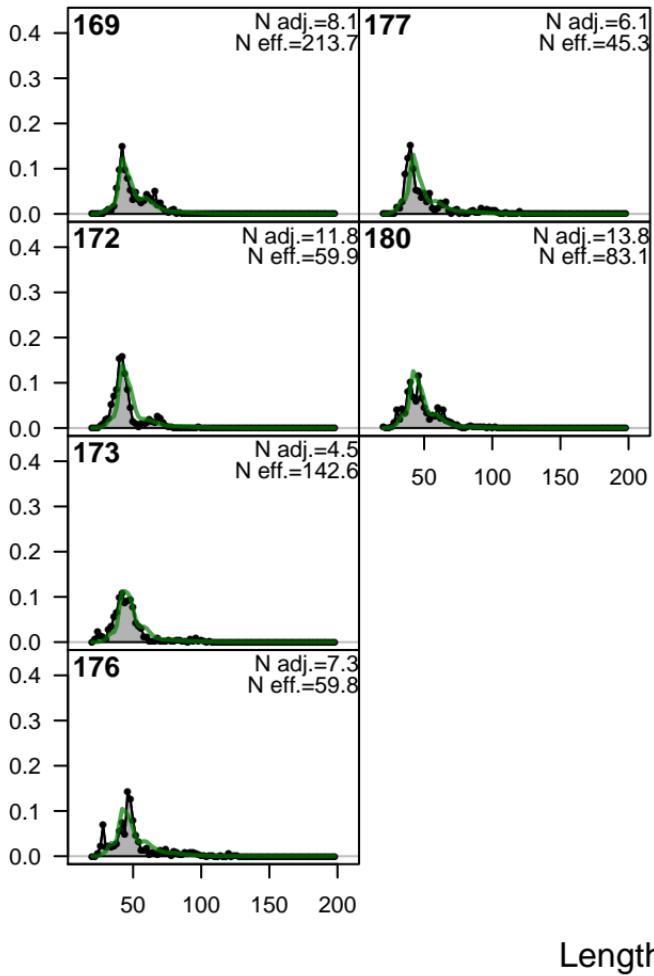
Proportion

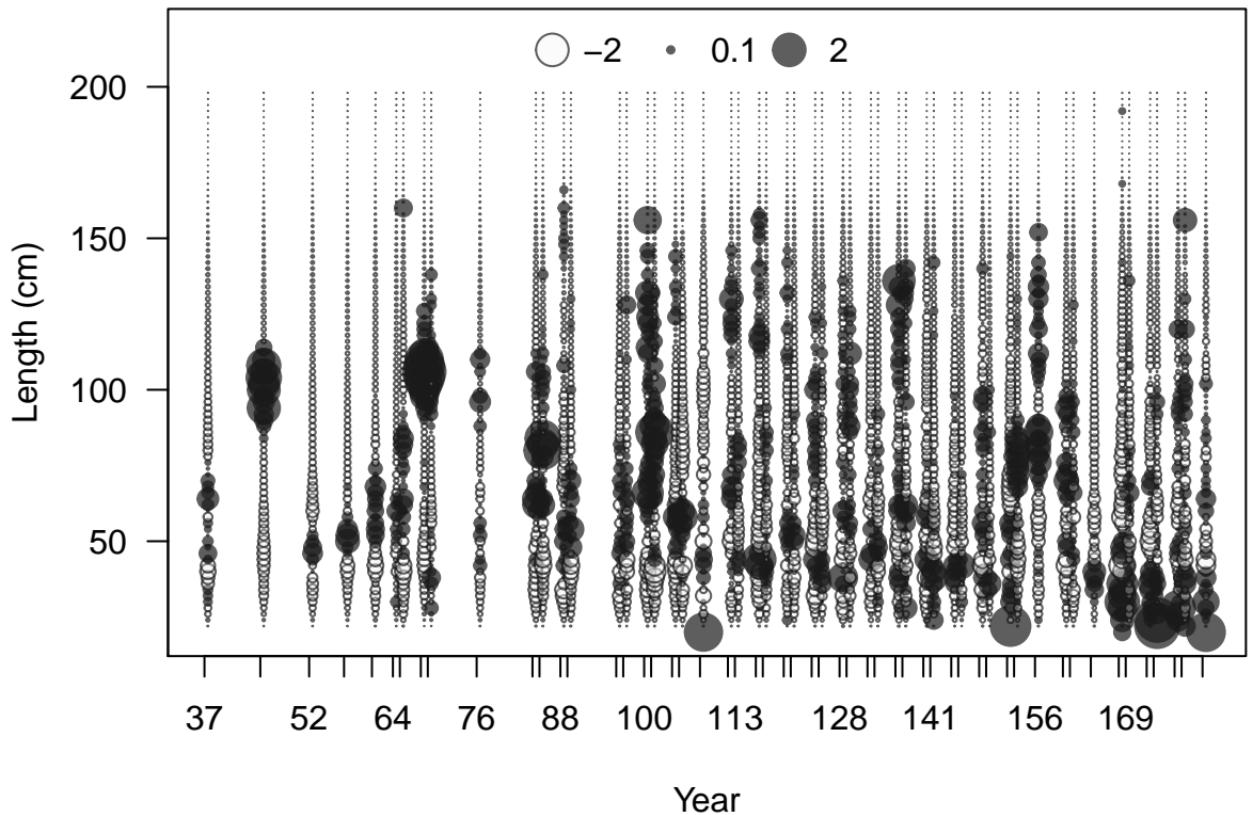


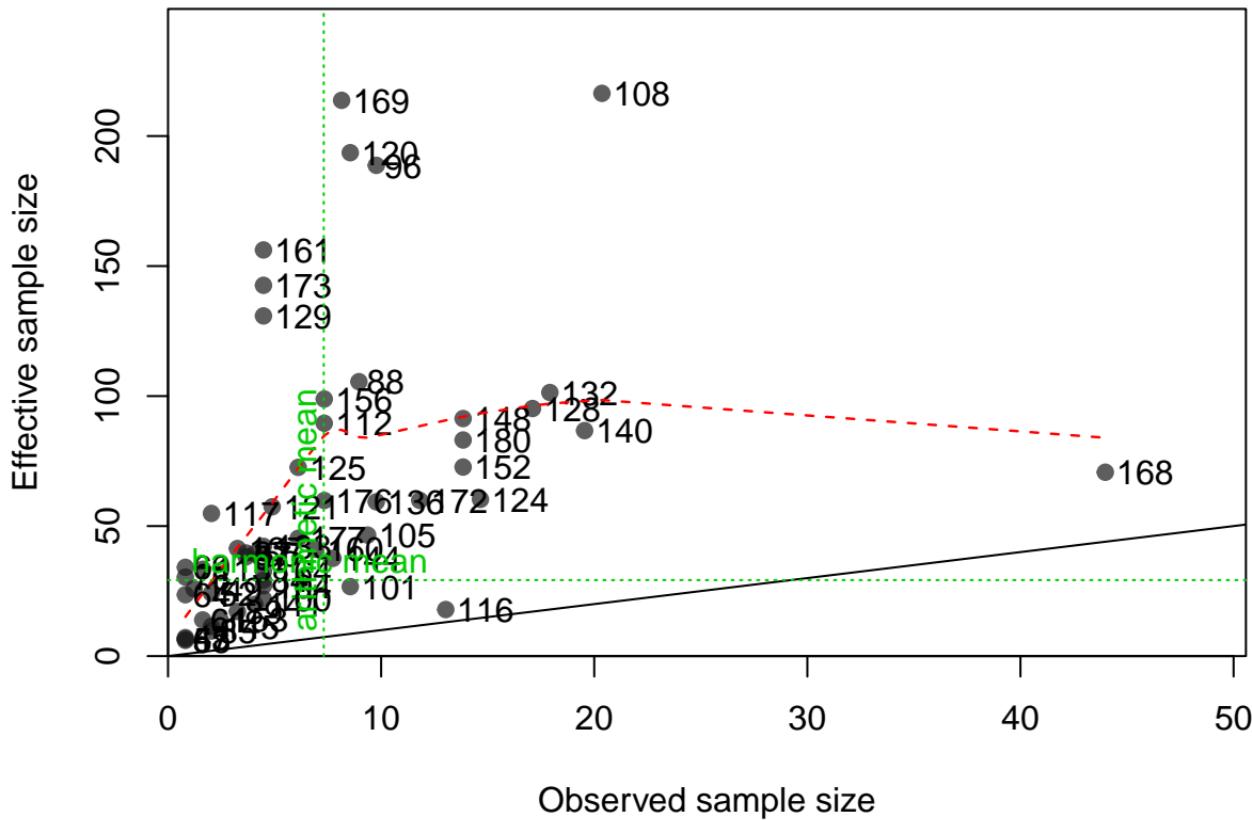
Proportion



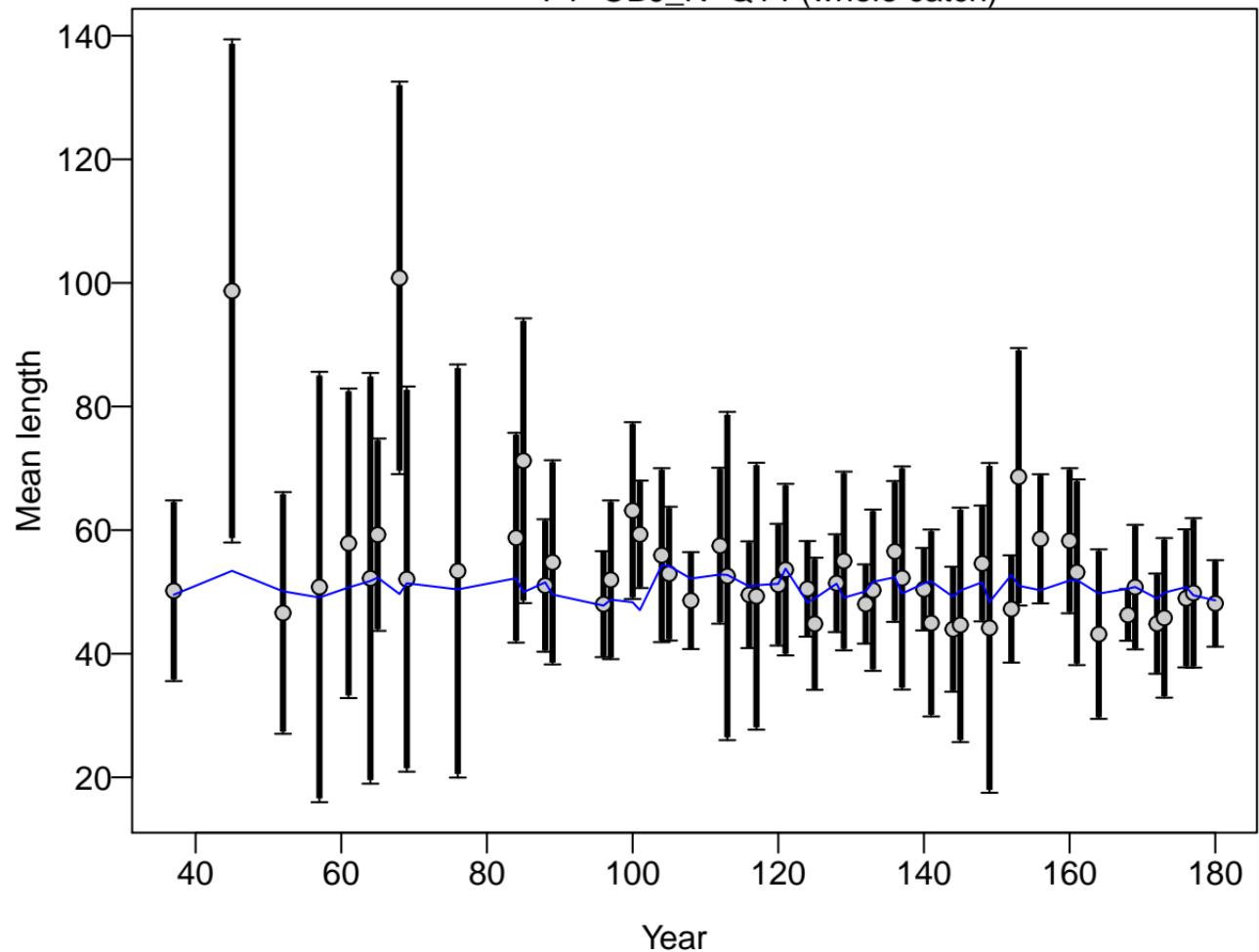
Proportion



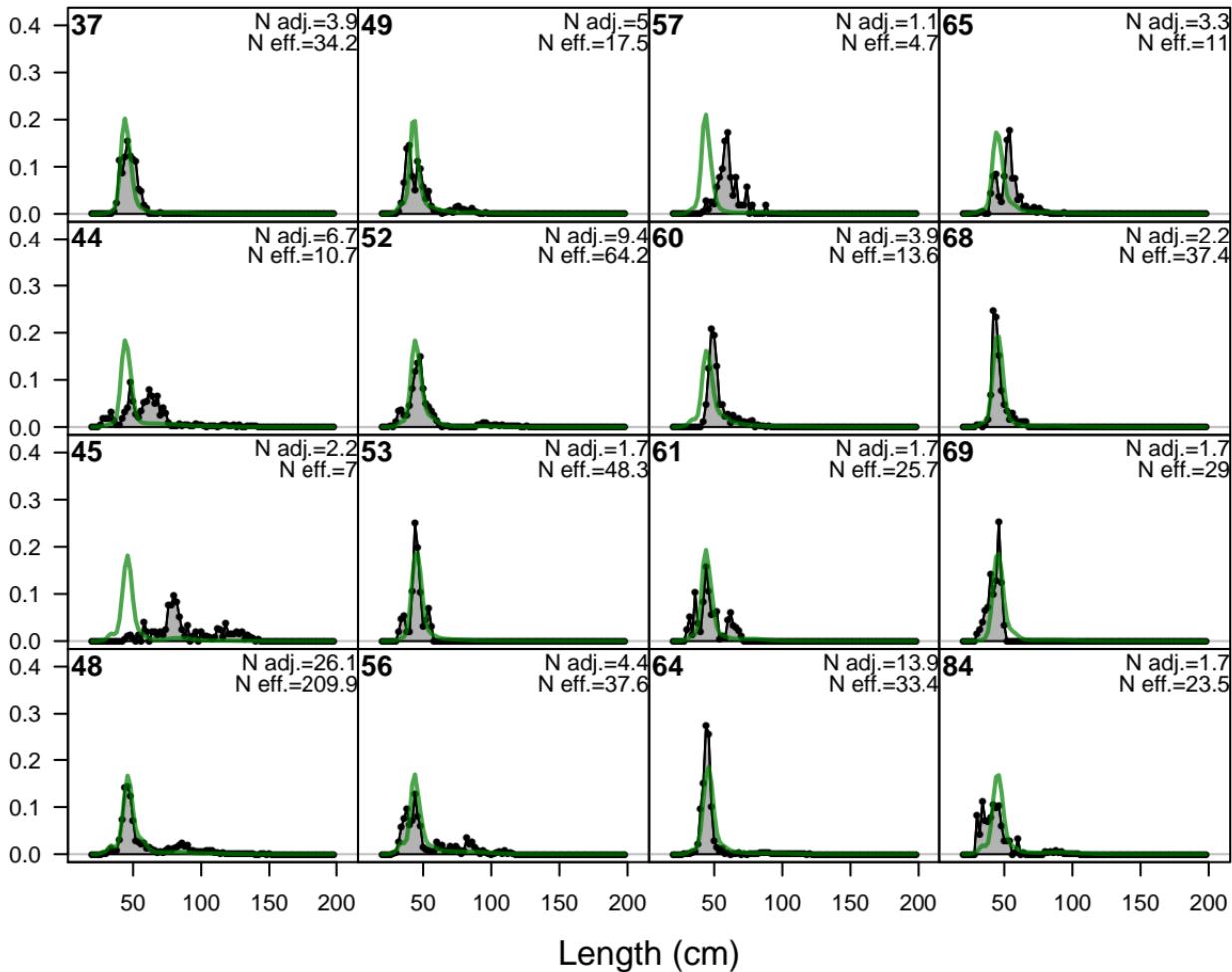




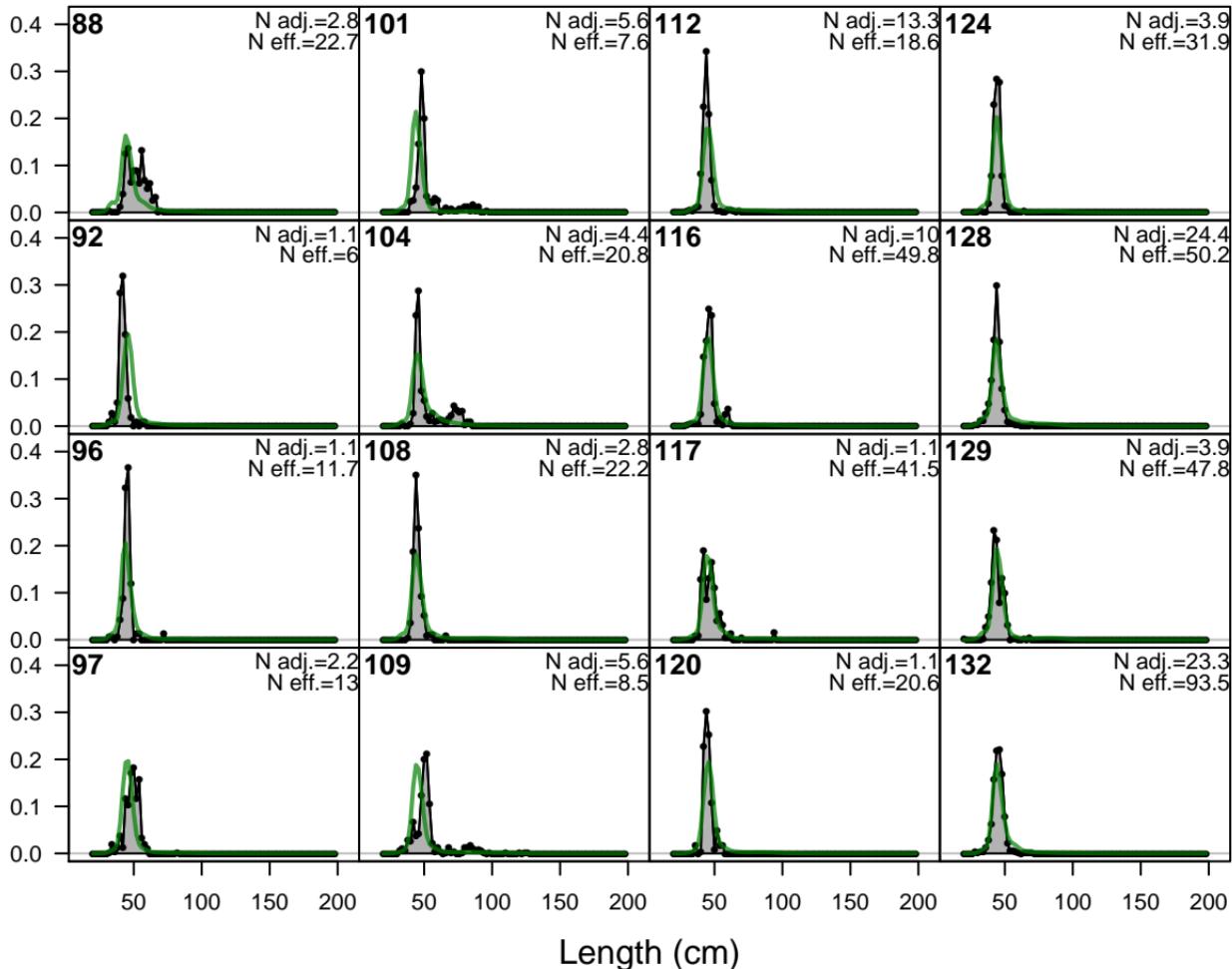
F1-OBJ_N-Q14 (whole catch)



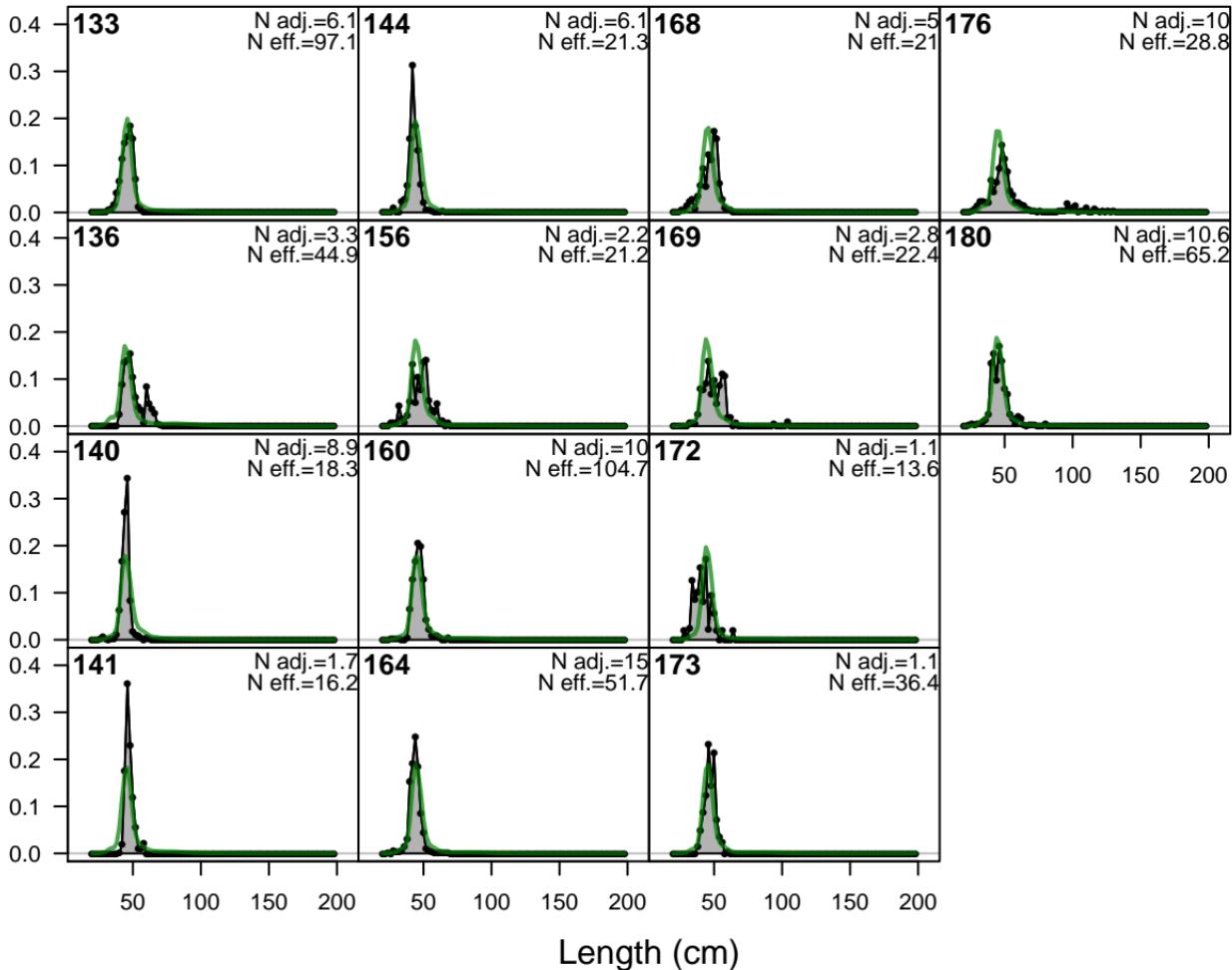
Proportion

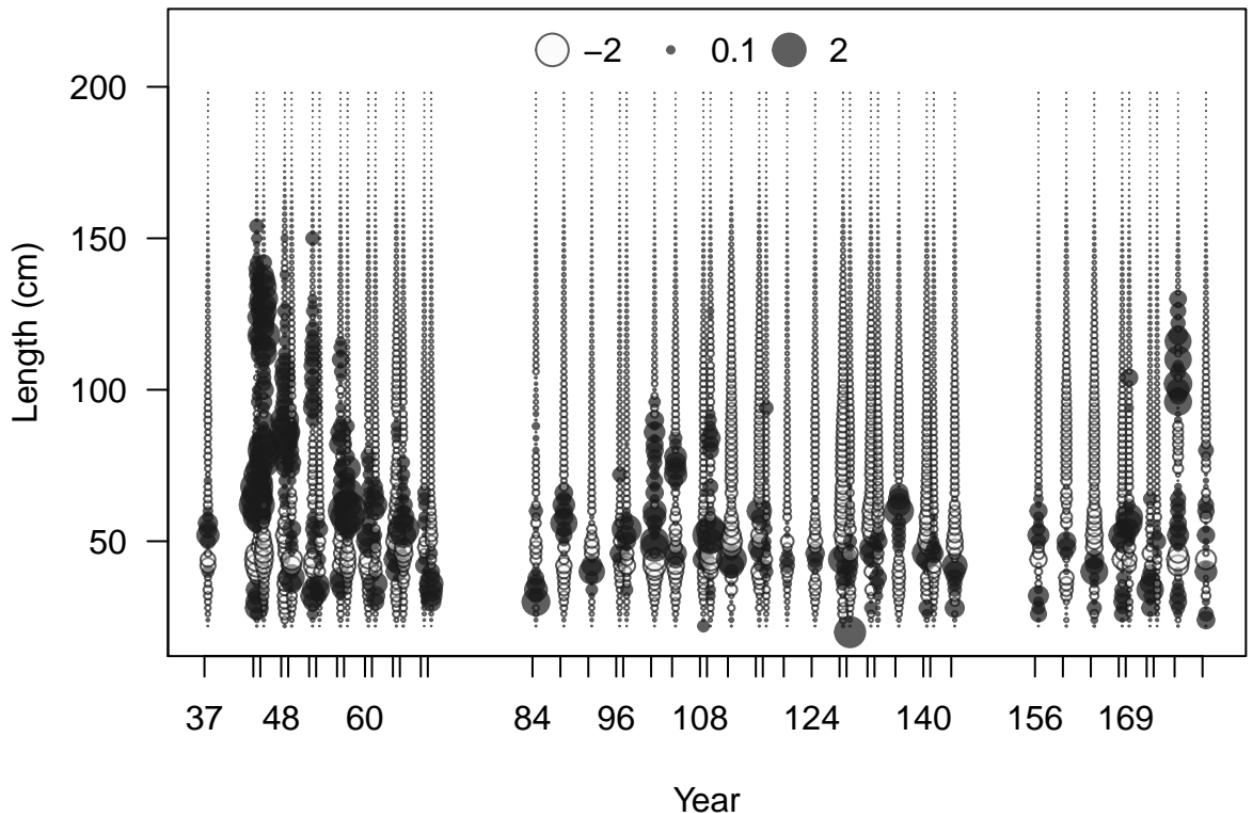


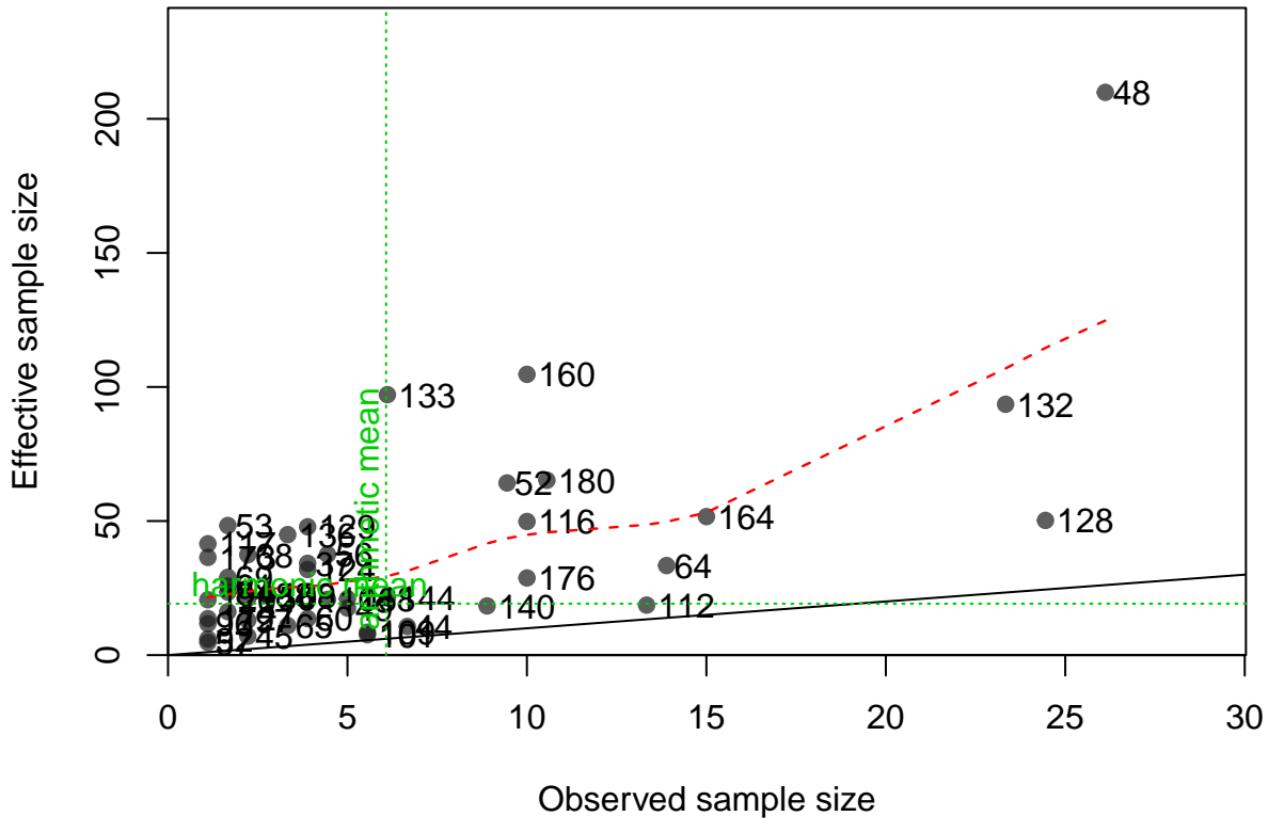
Proportion



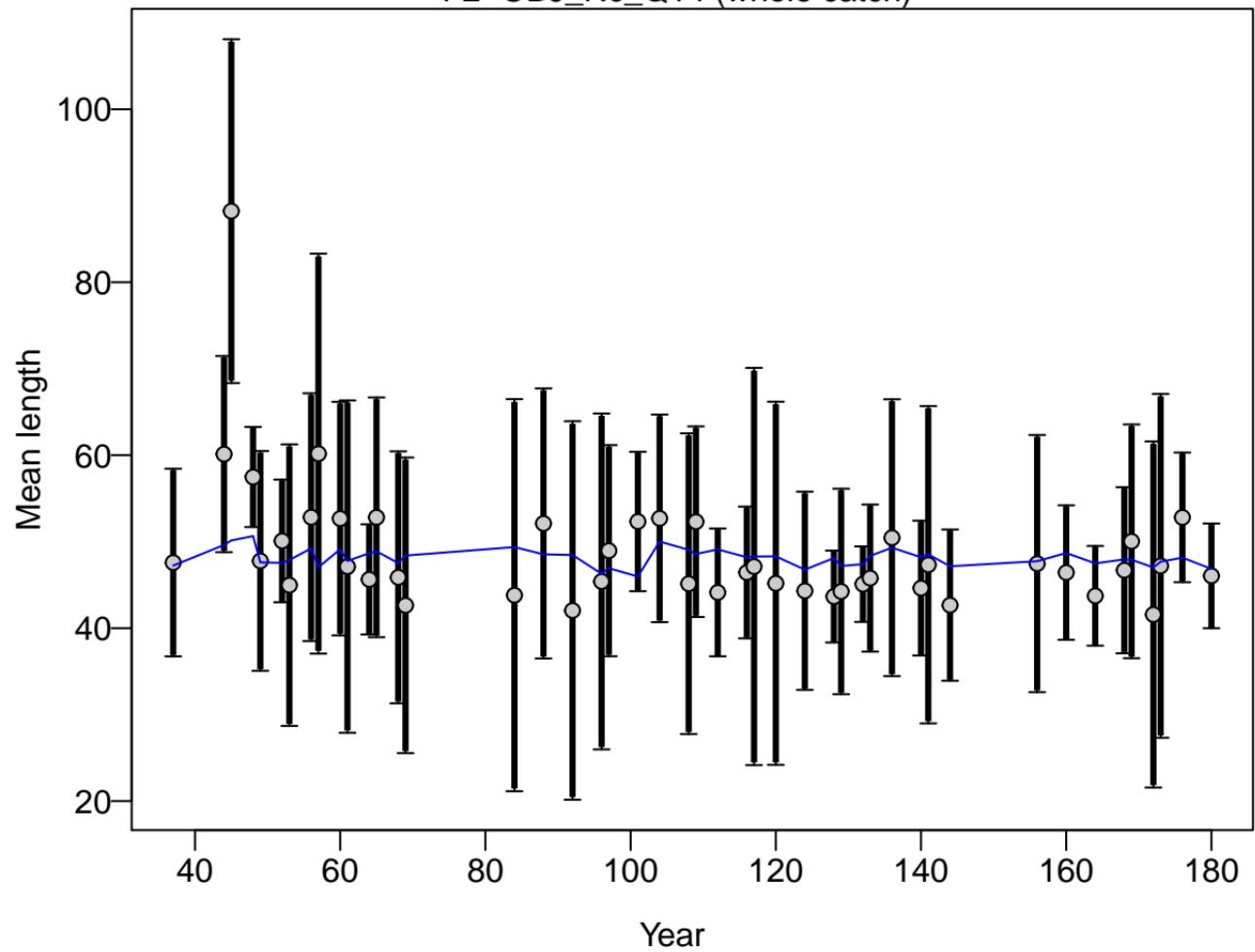
Proportion



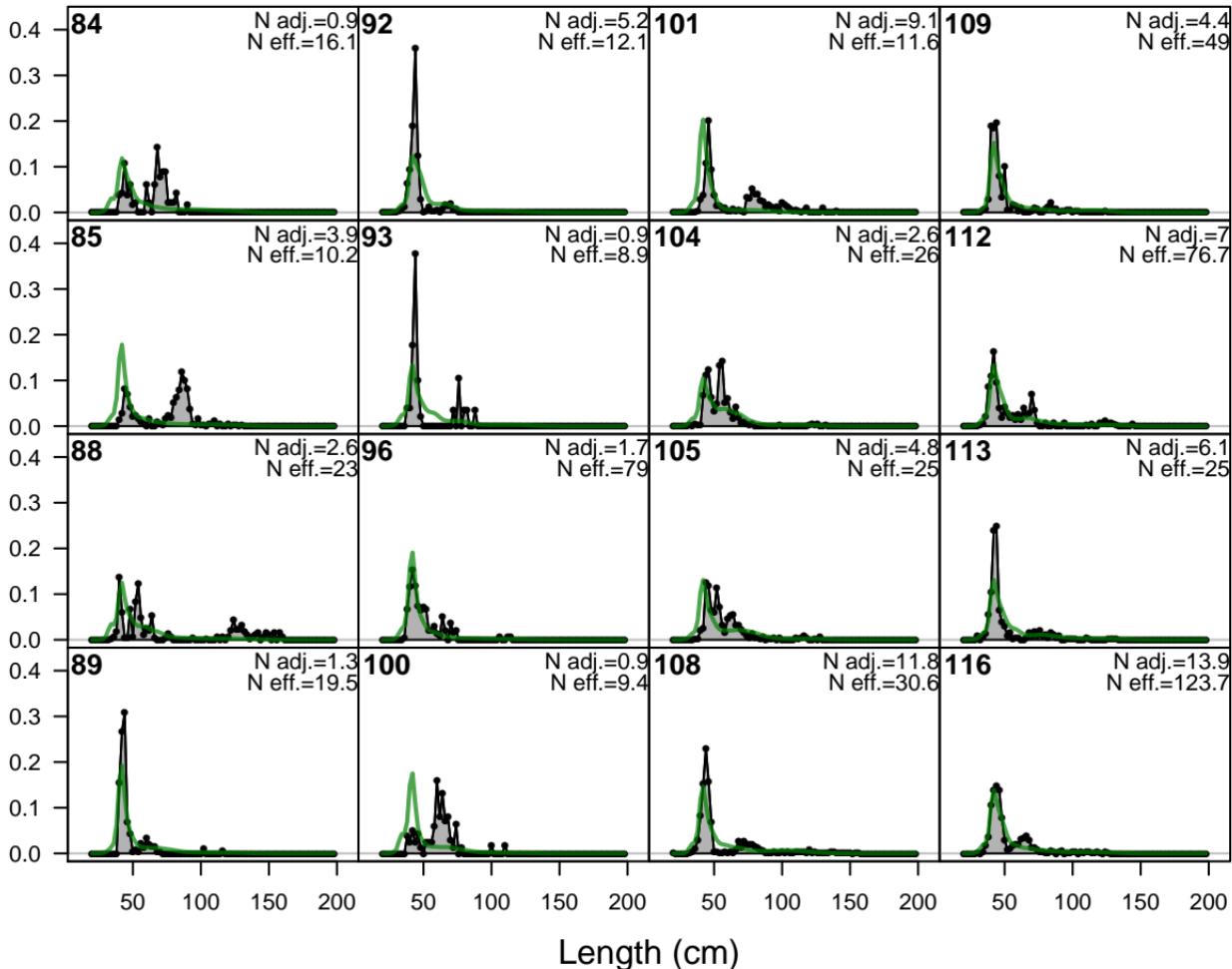




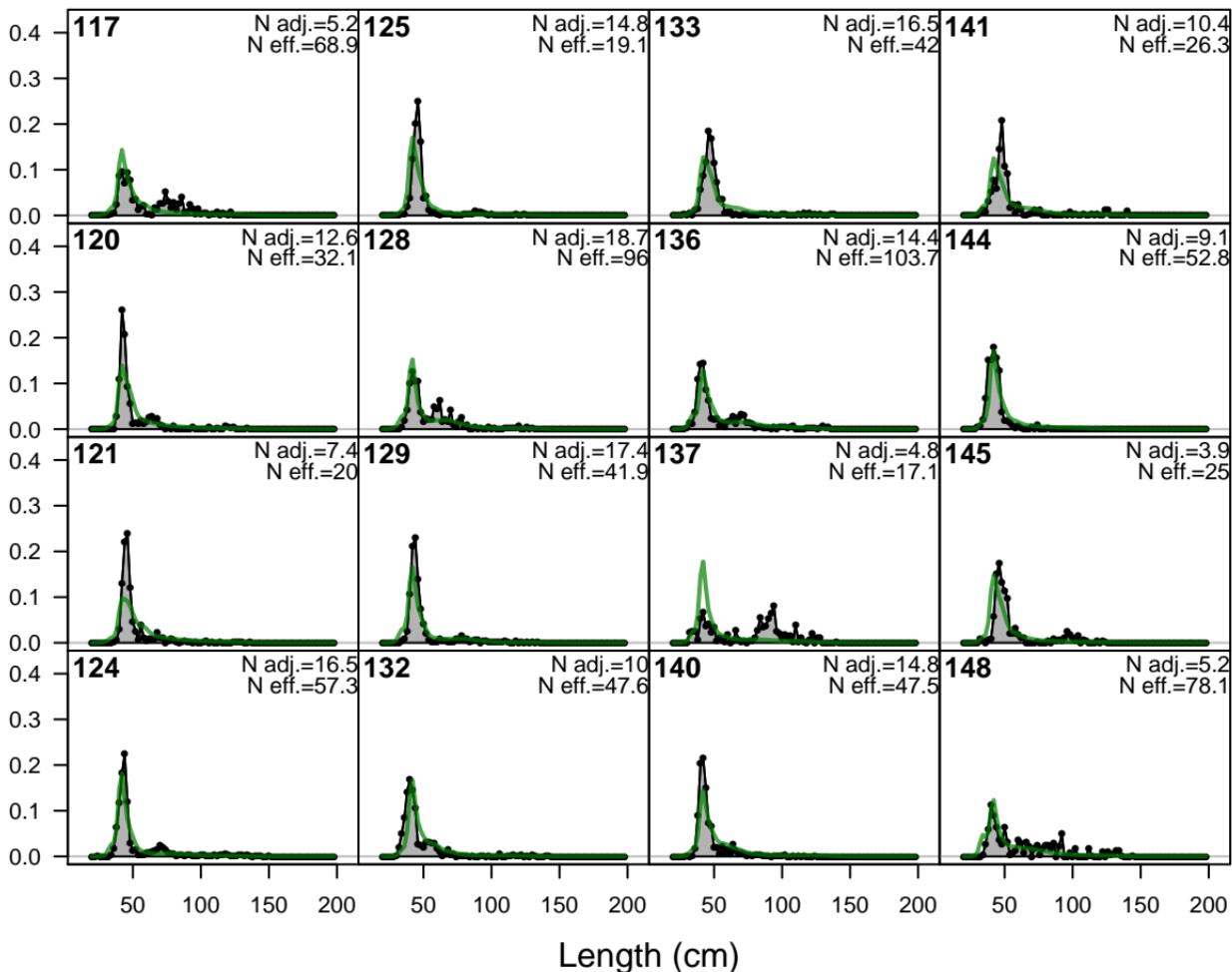
F2-OBJ_Nc_Q14 (whole catch)



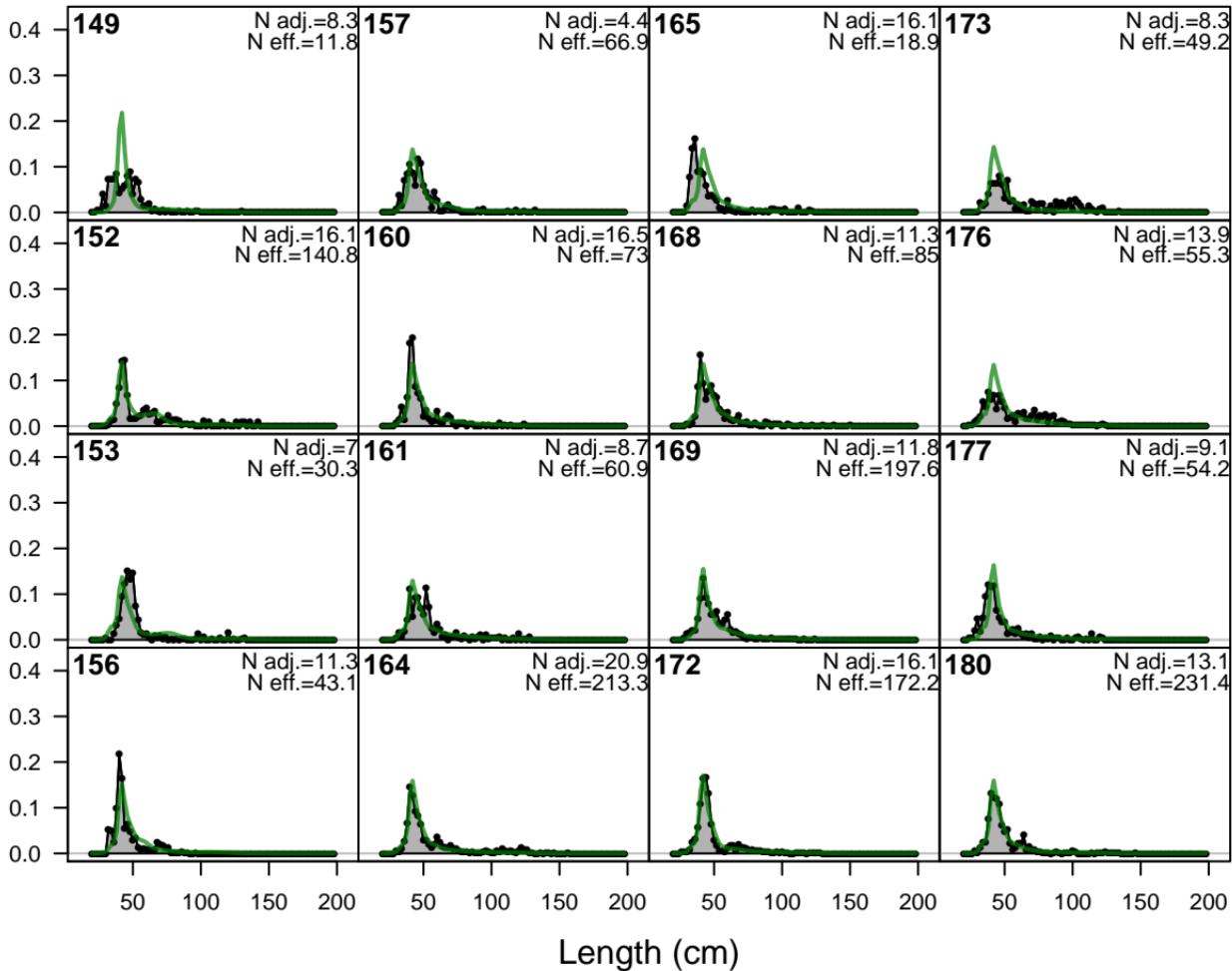
Proportion

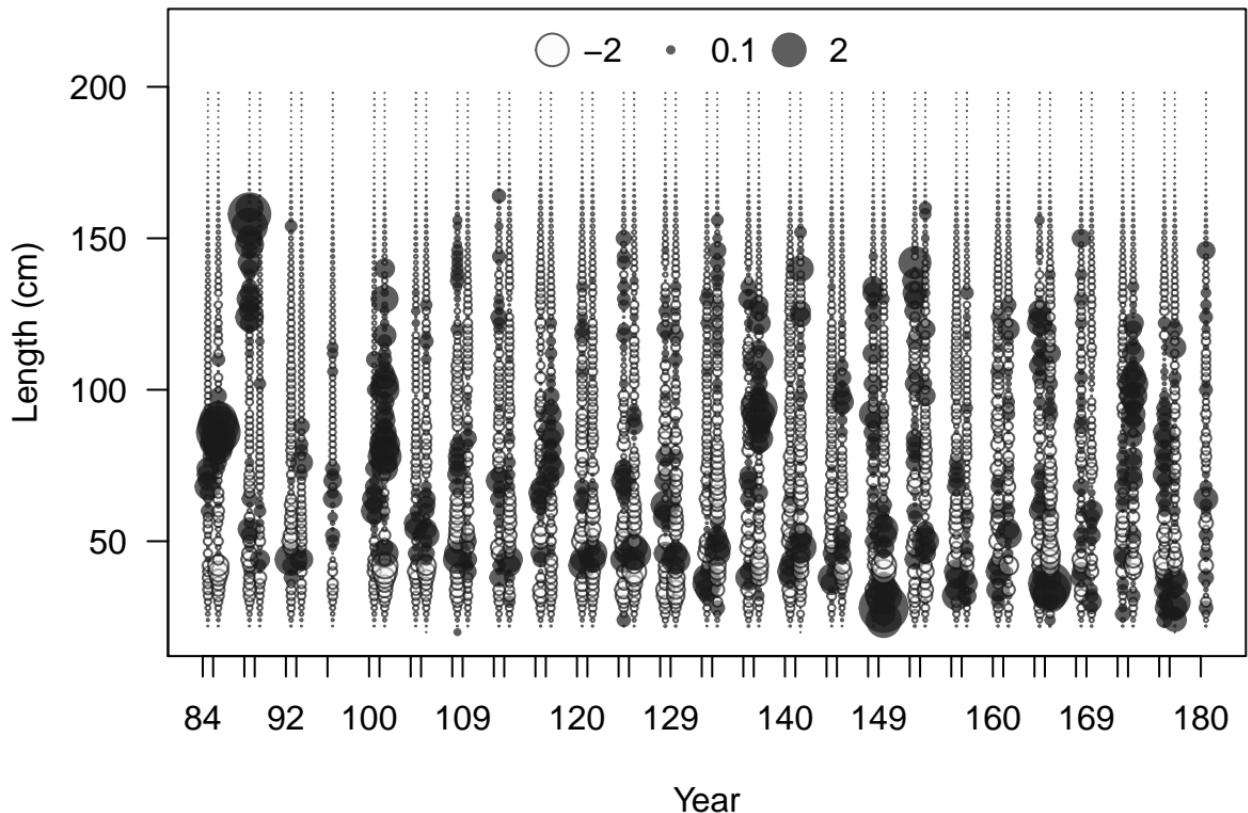


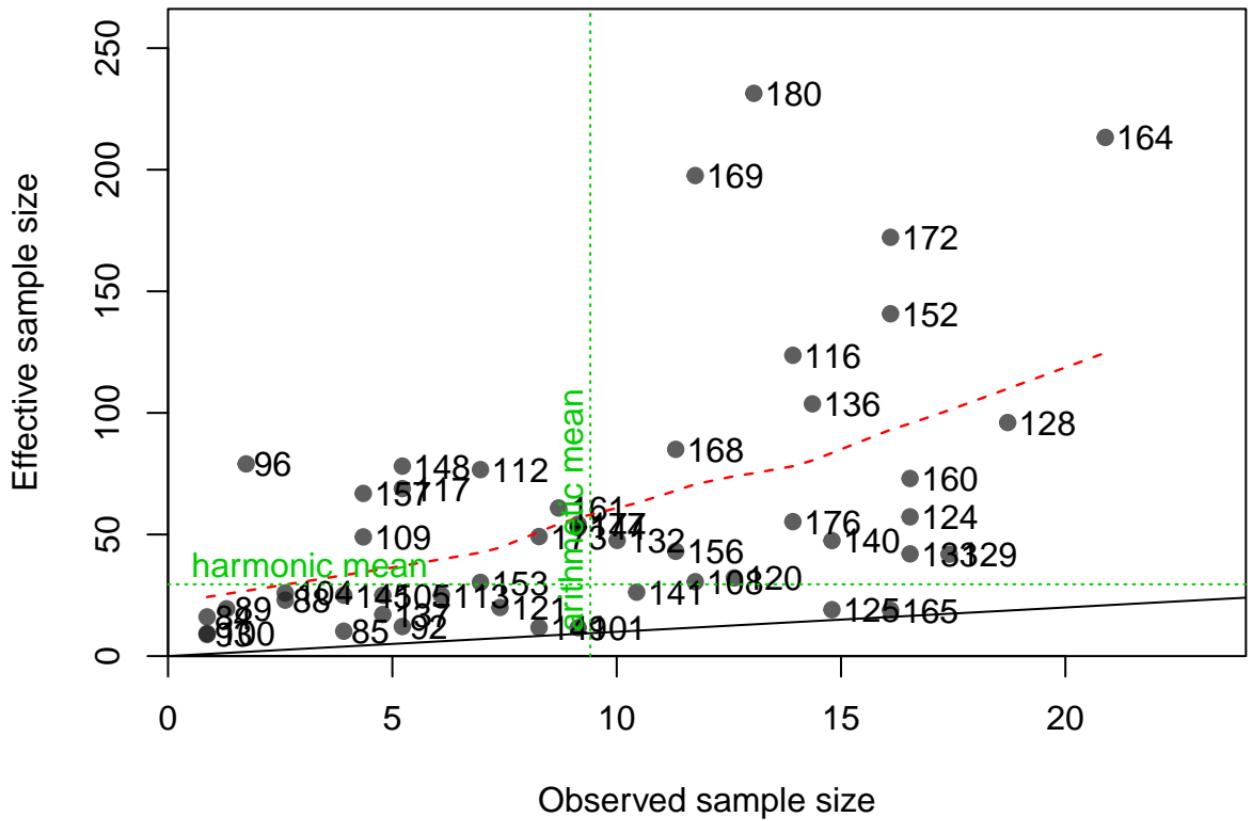
Proportion



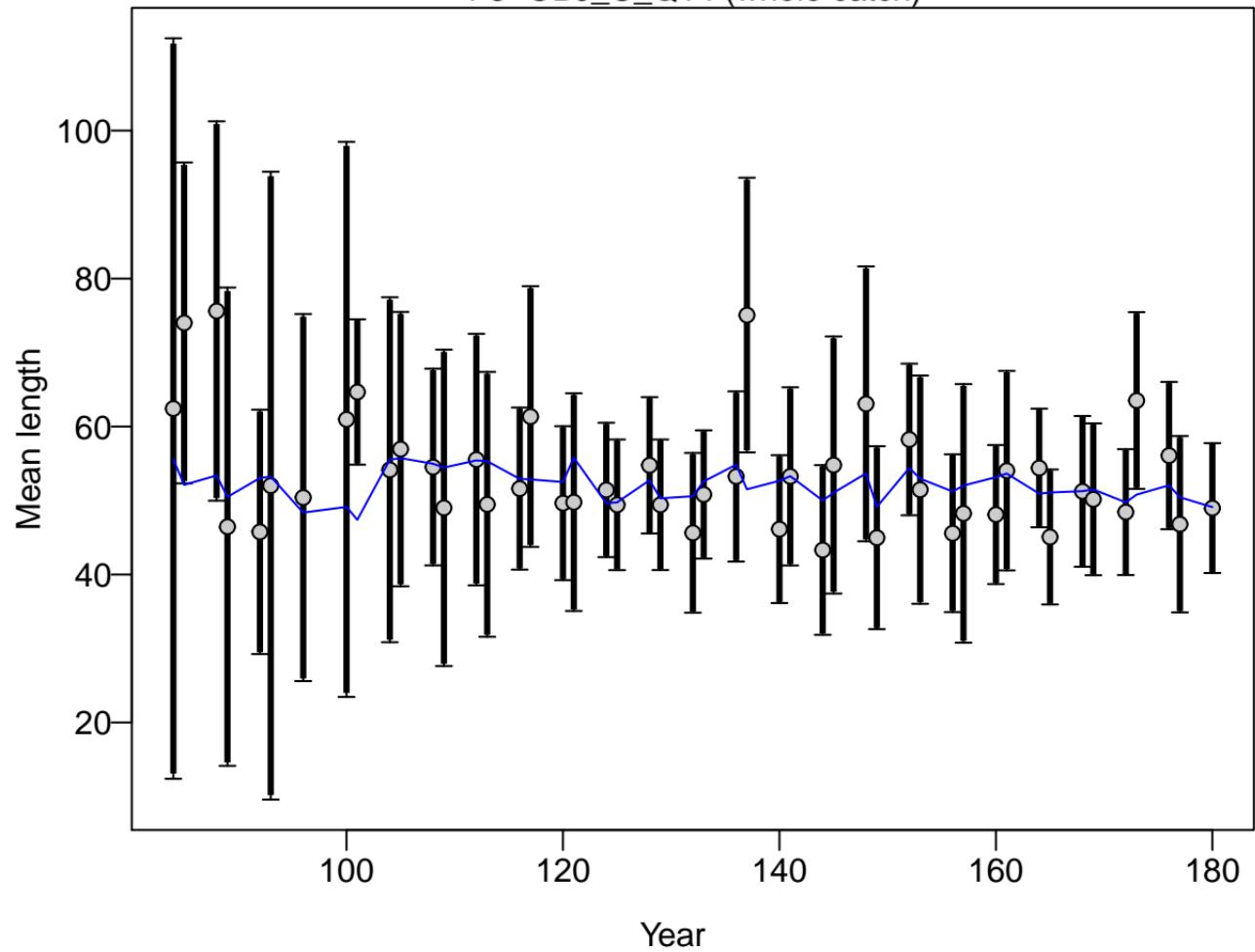
Proportion



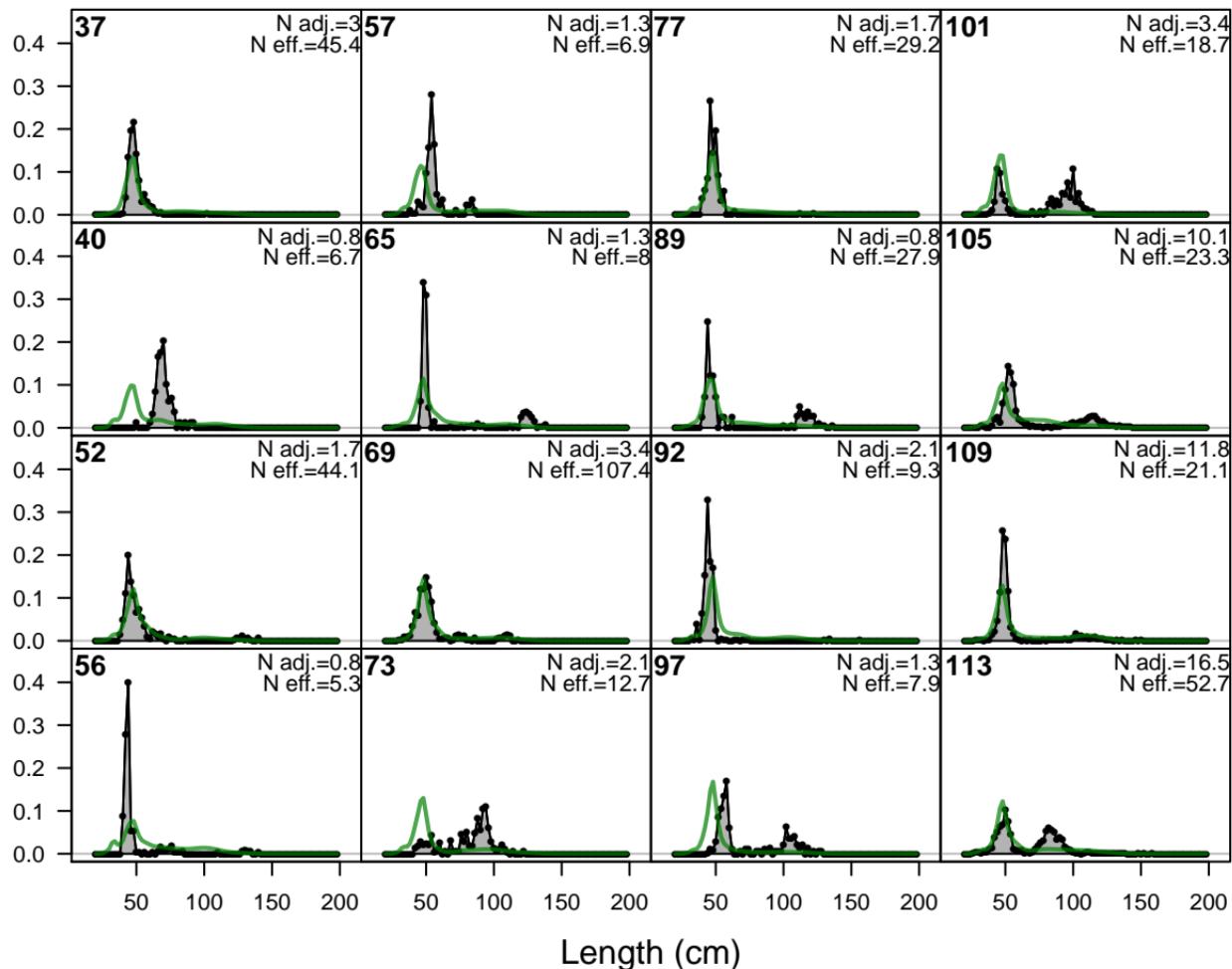




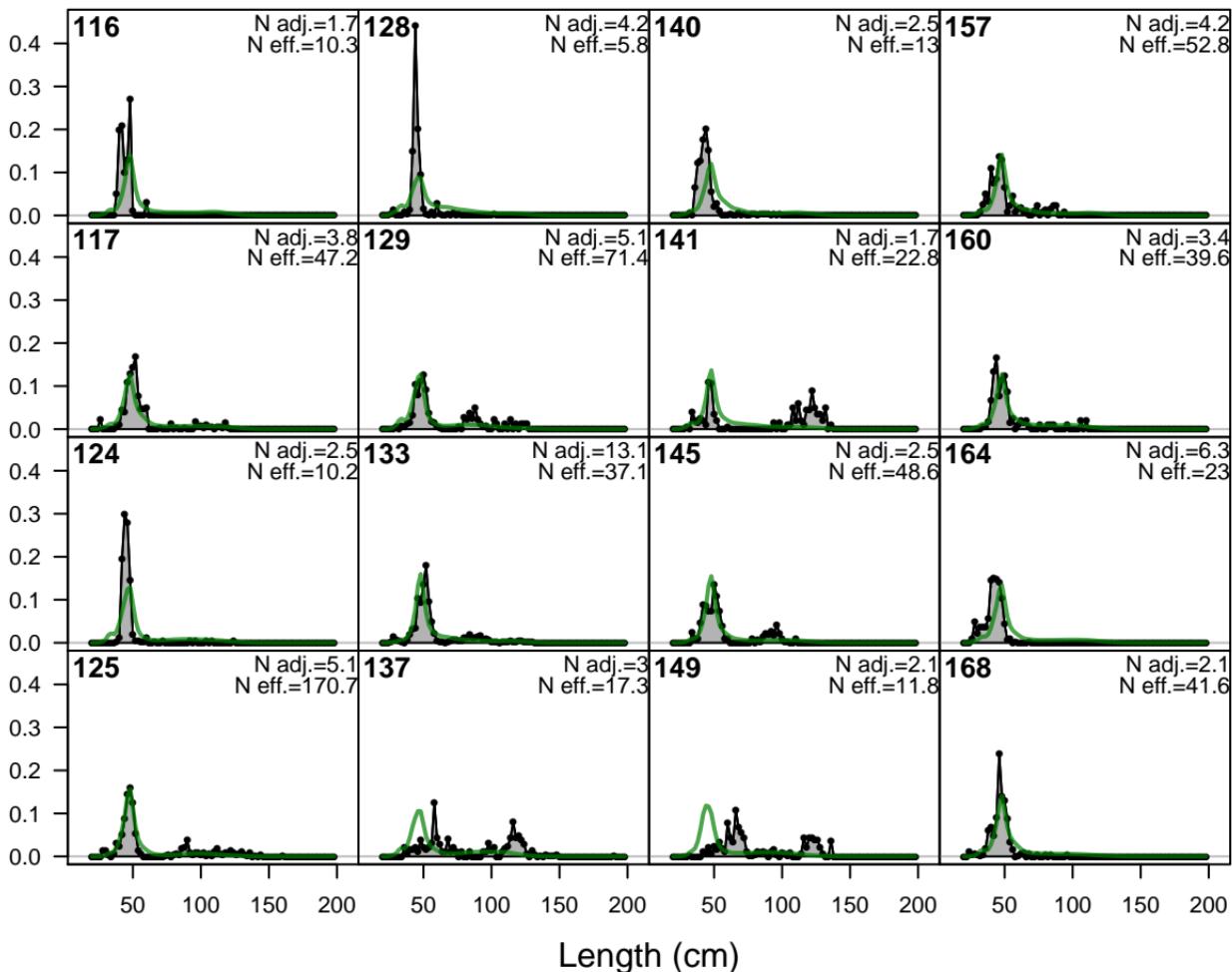
F3-OBJ_C_Q14 (whole catch)



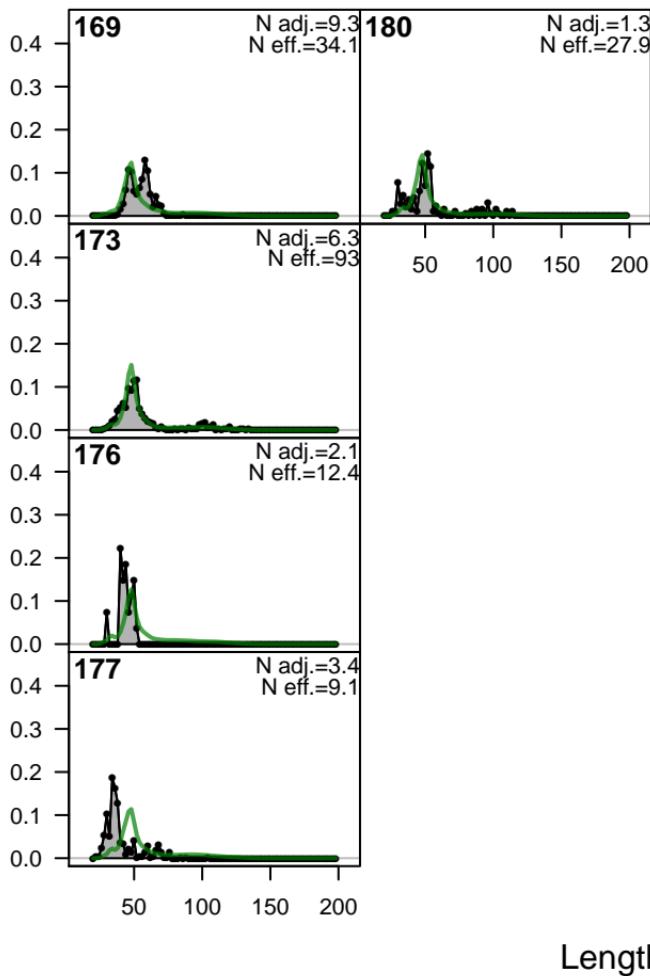
Proportion

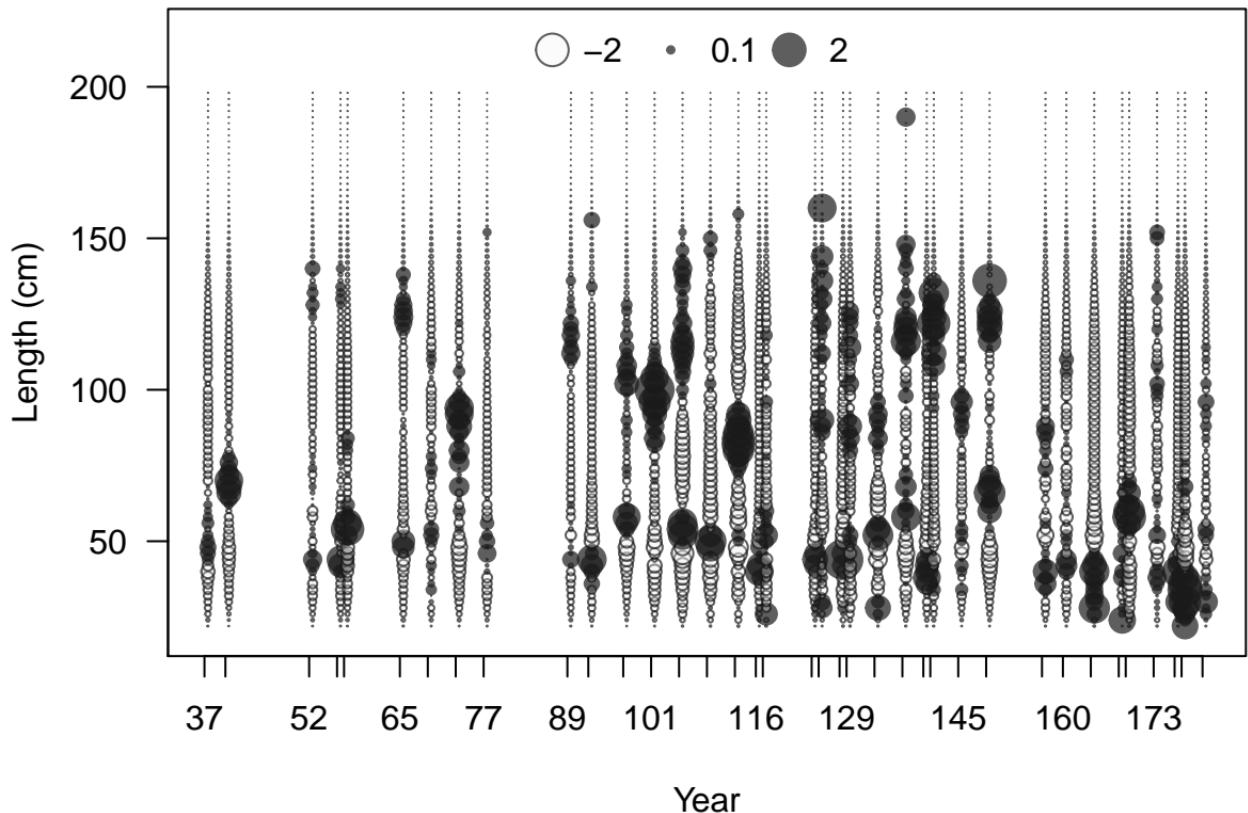


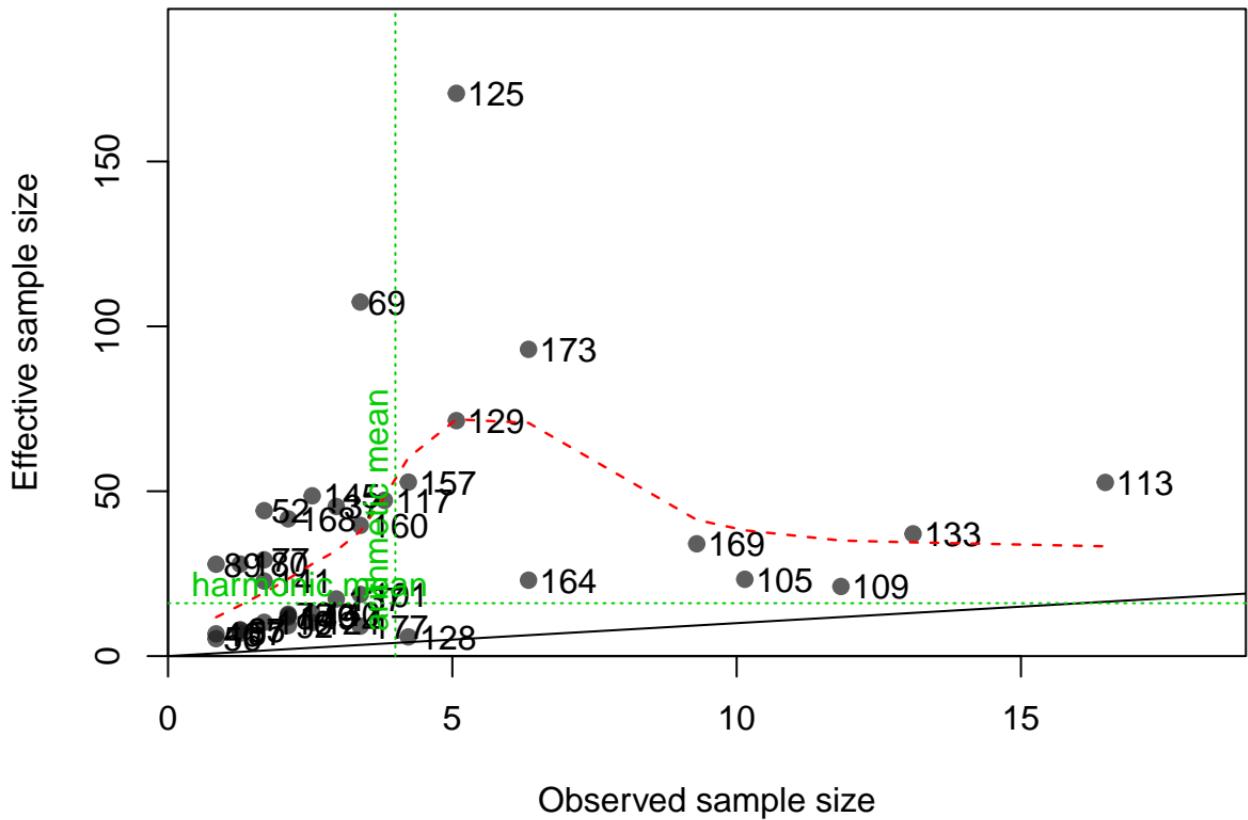
Proportion



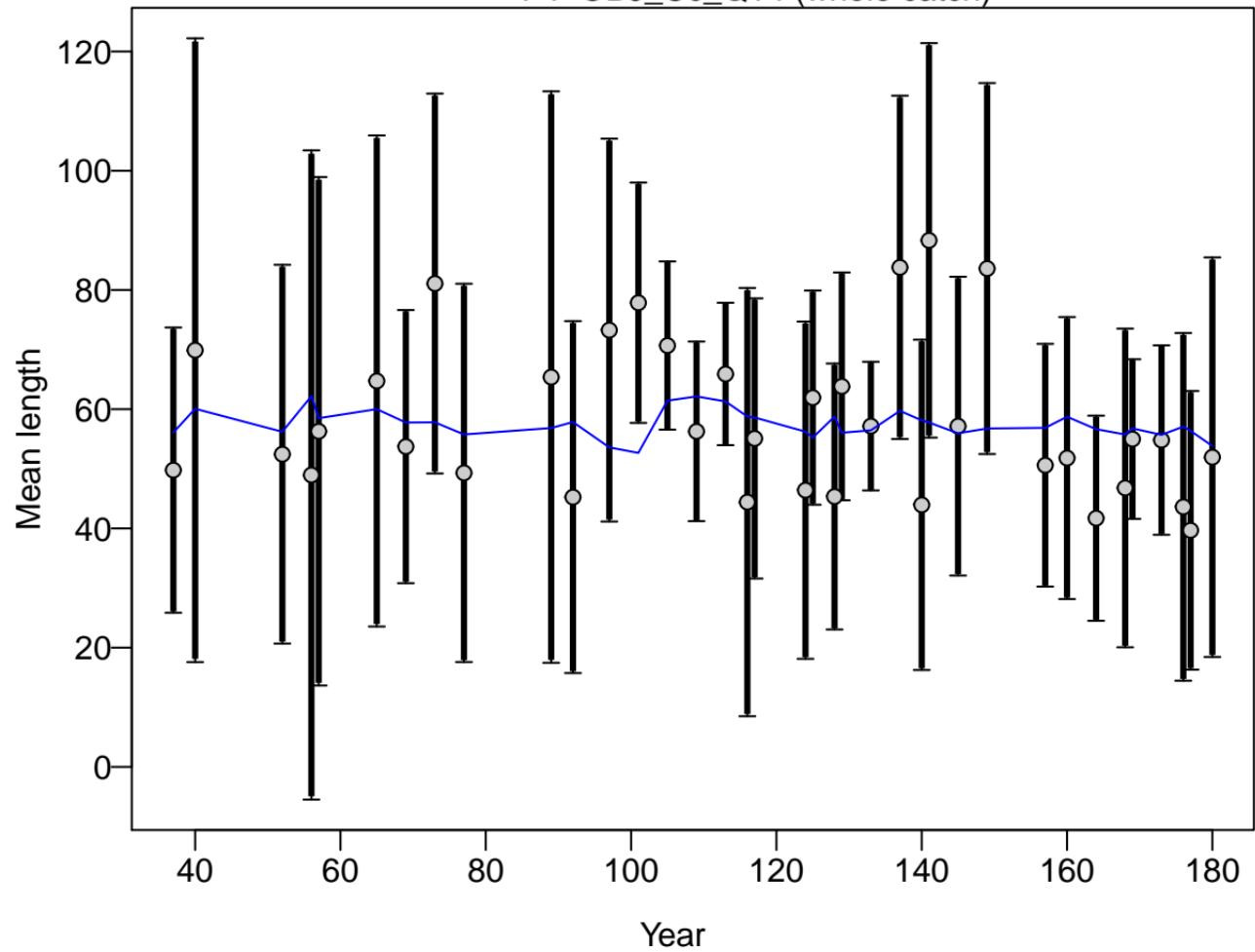
Proportion



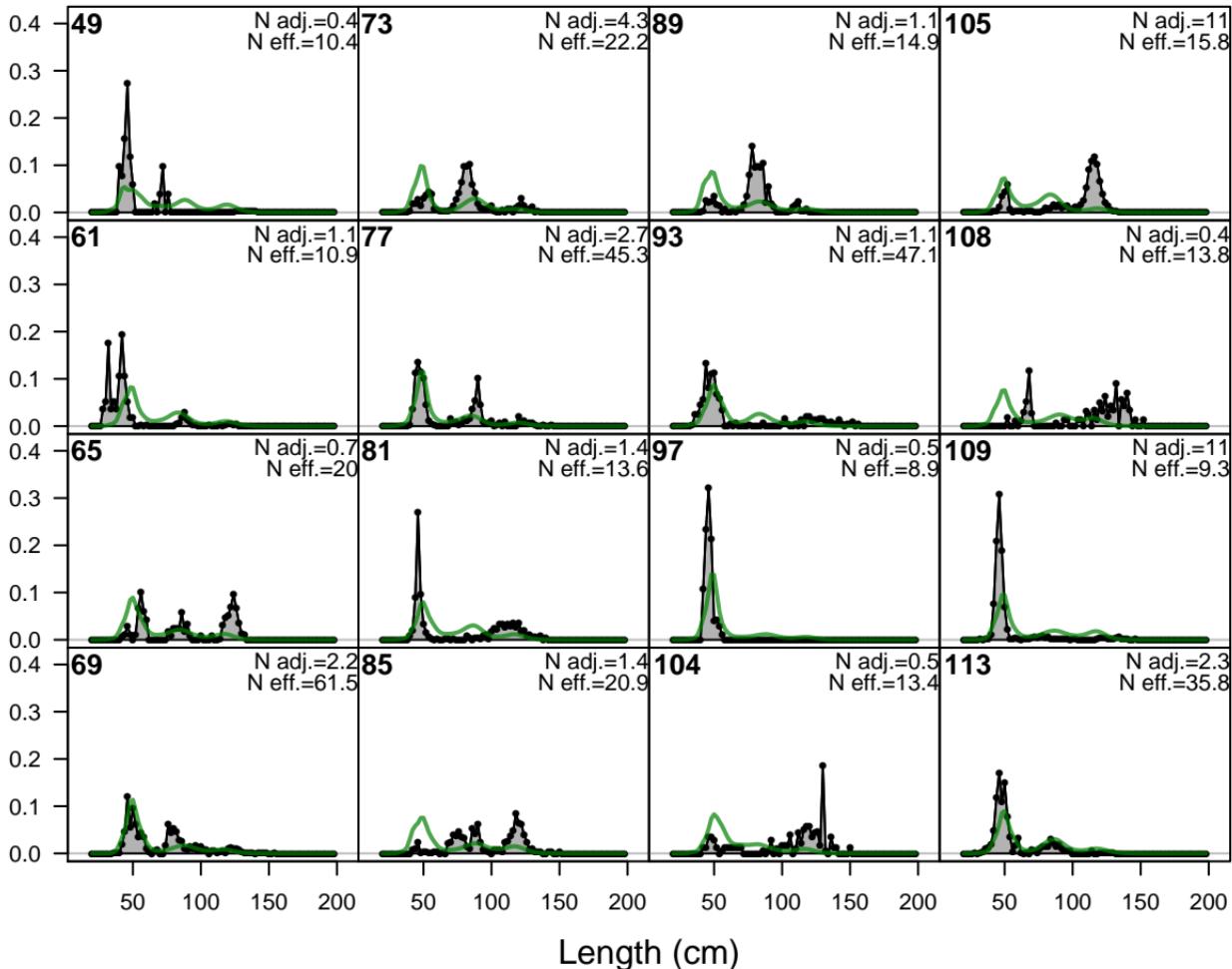




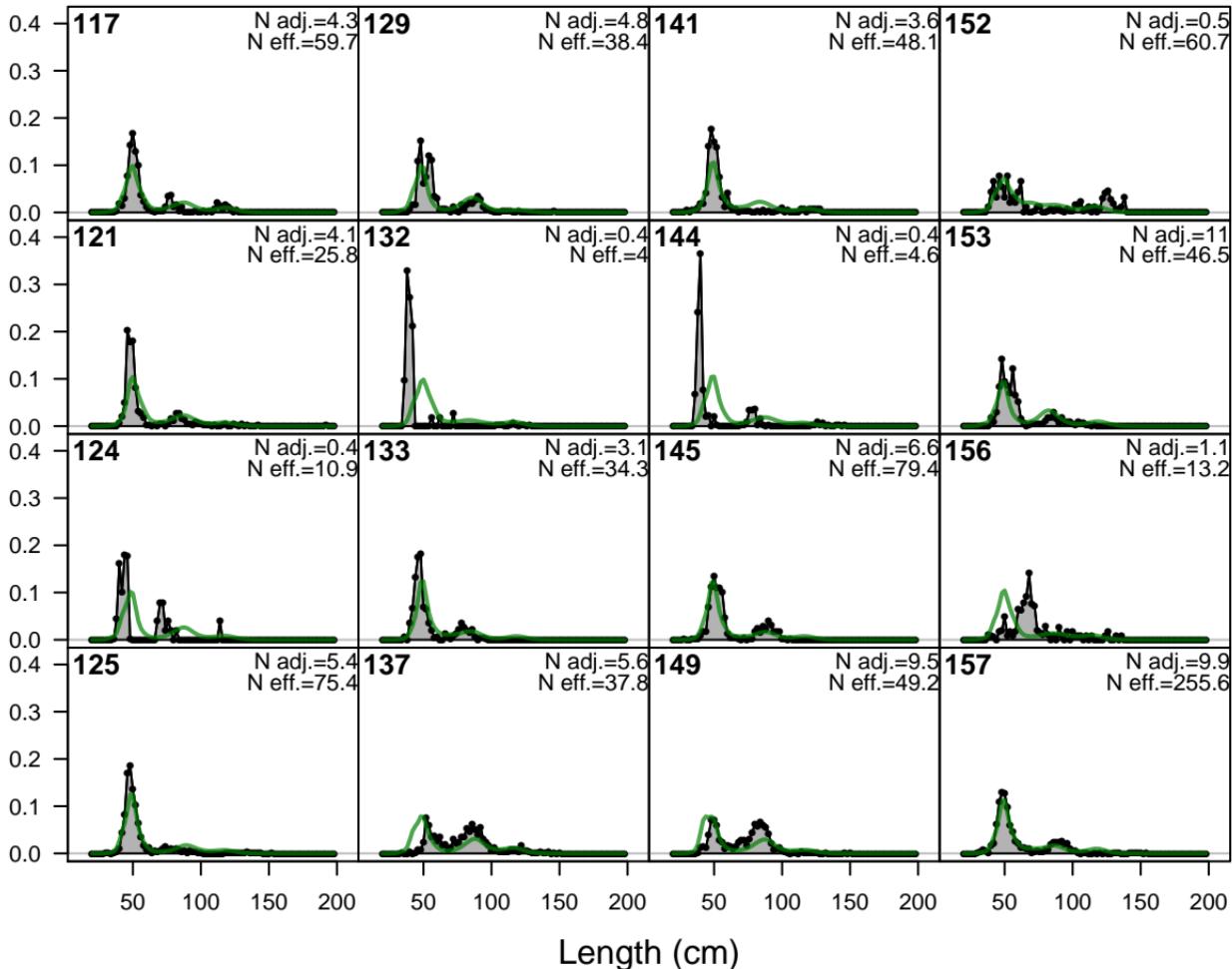
F4-OBJ_Cc_Q14 (whole catch)



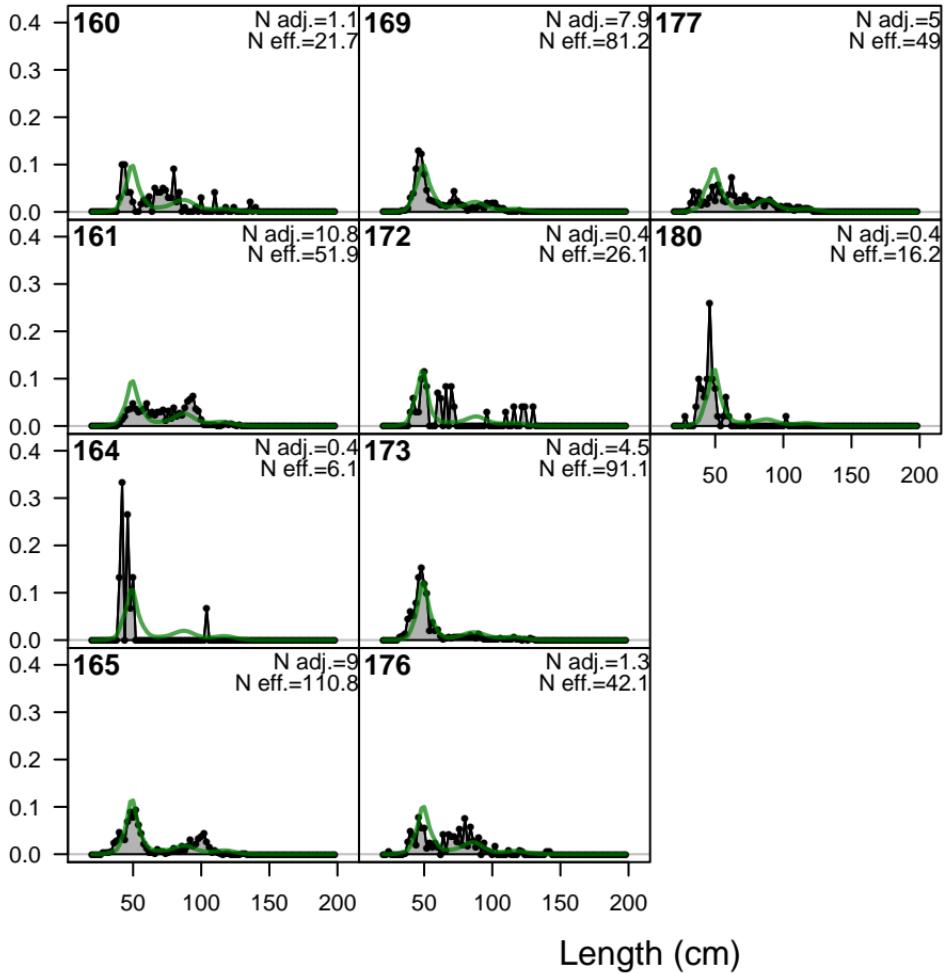
Proportion

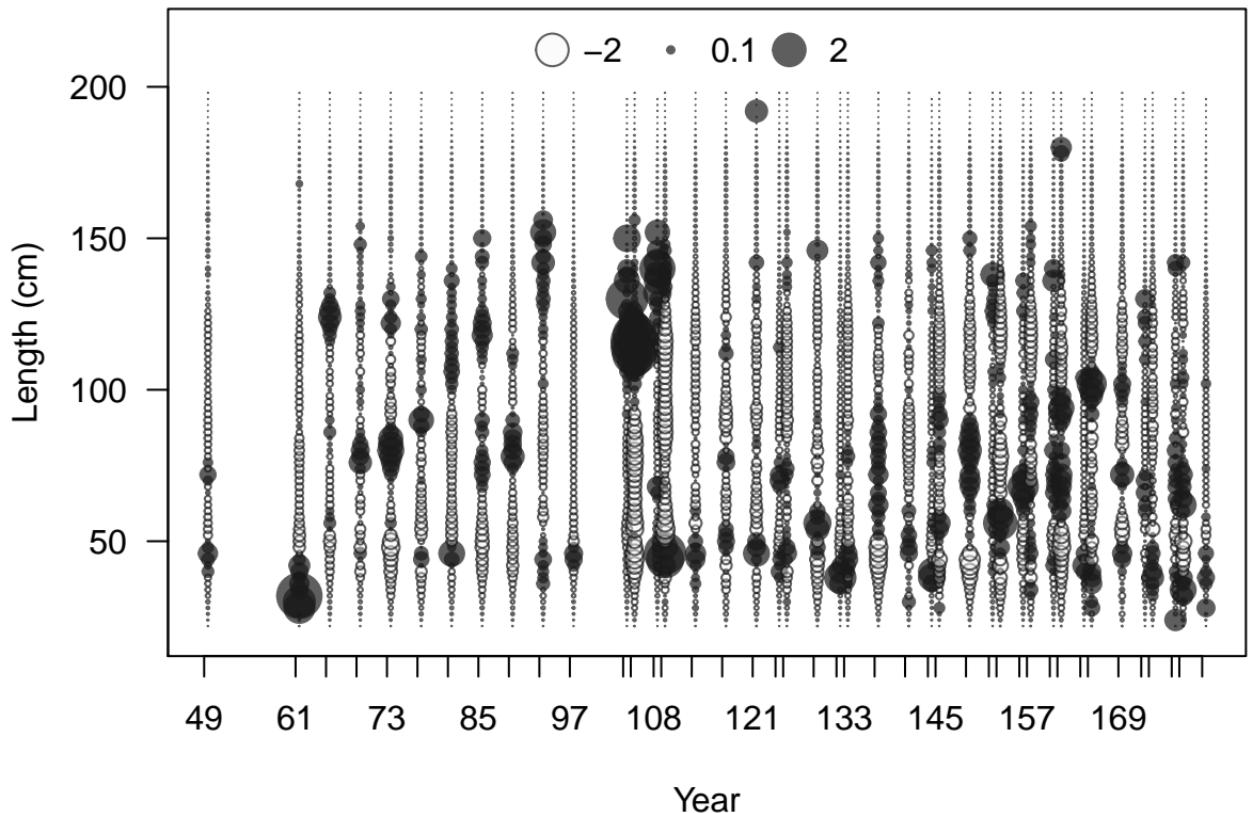


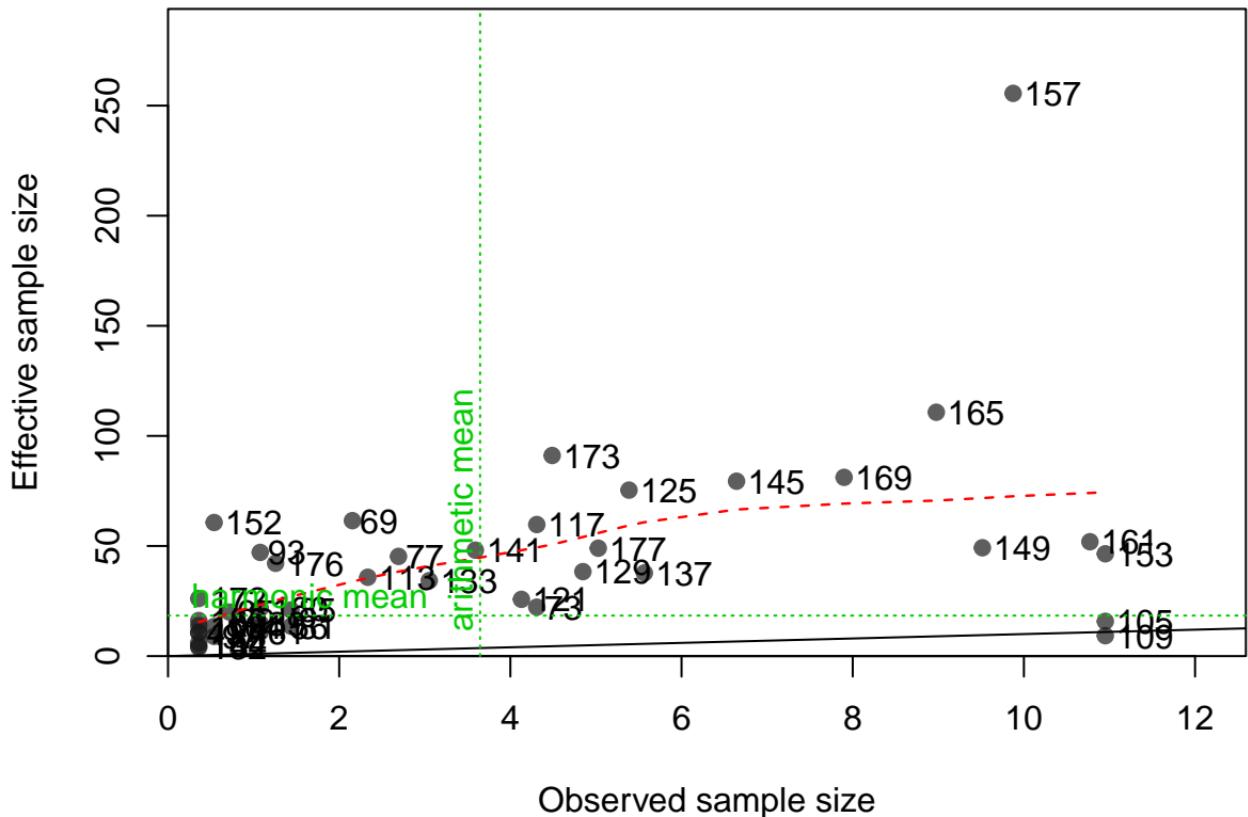
Proportion



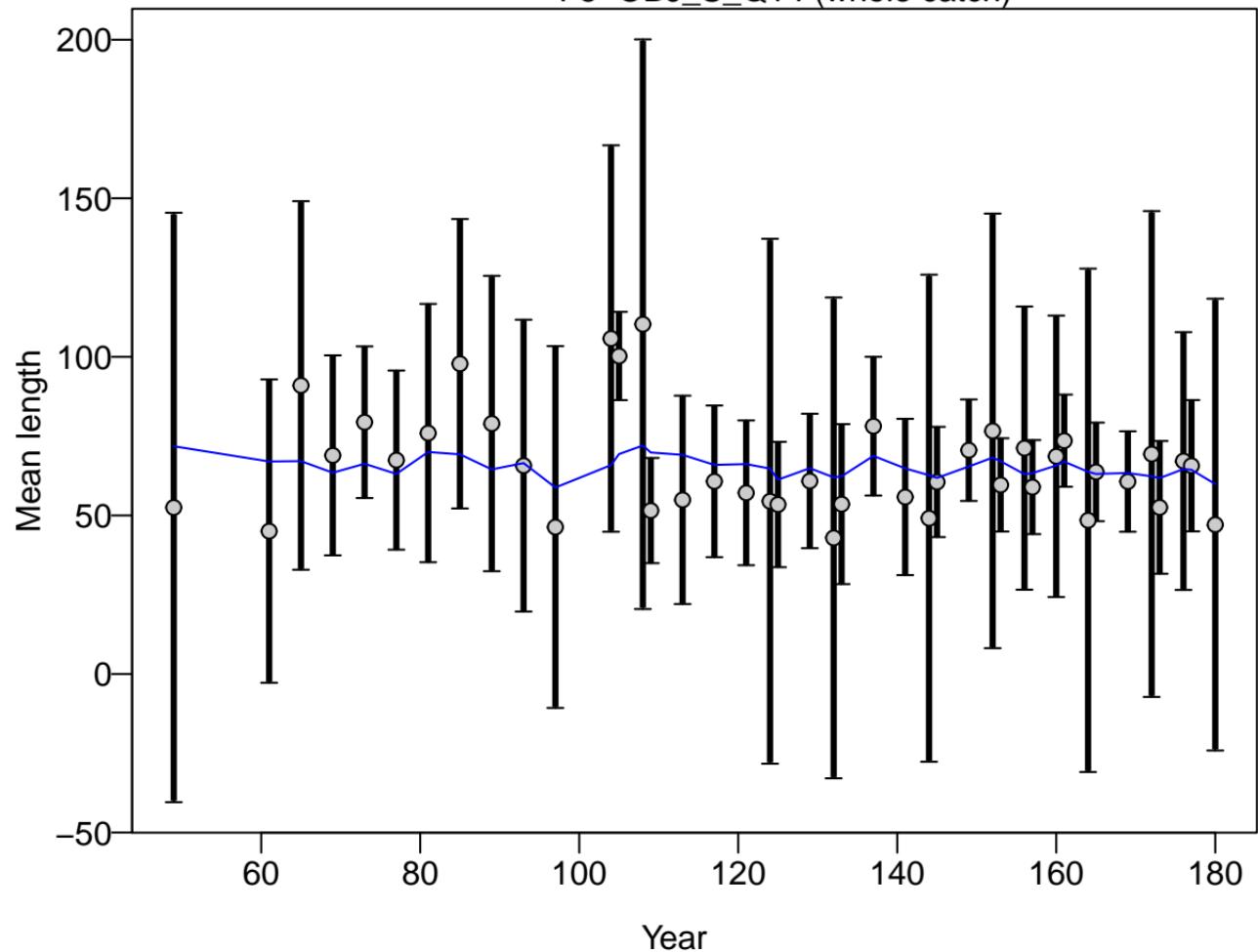
Proportion



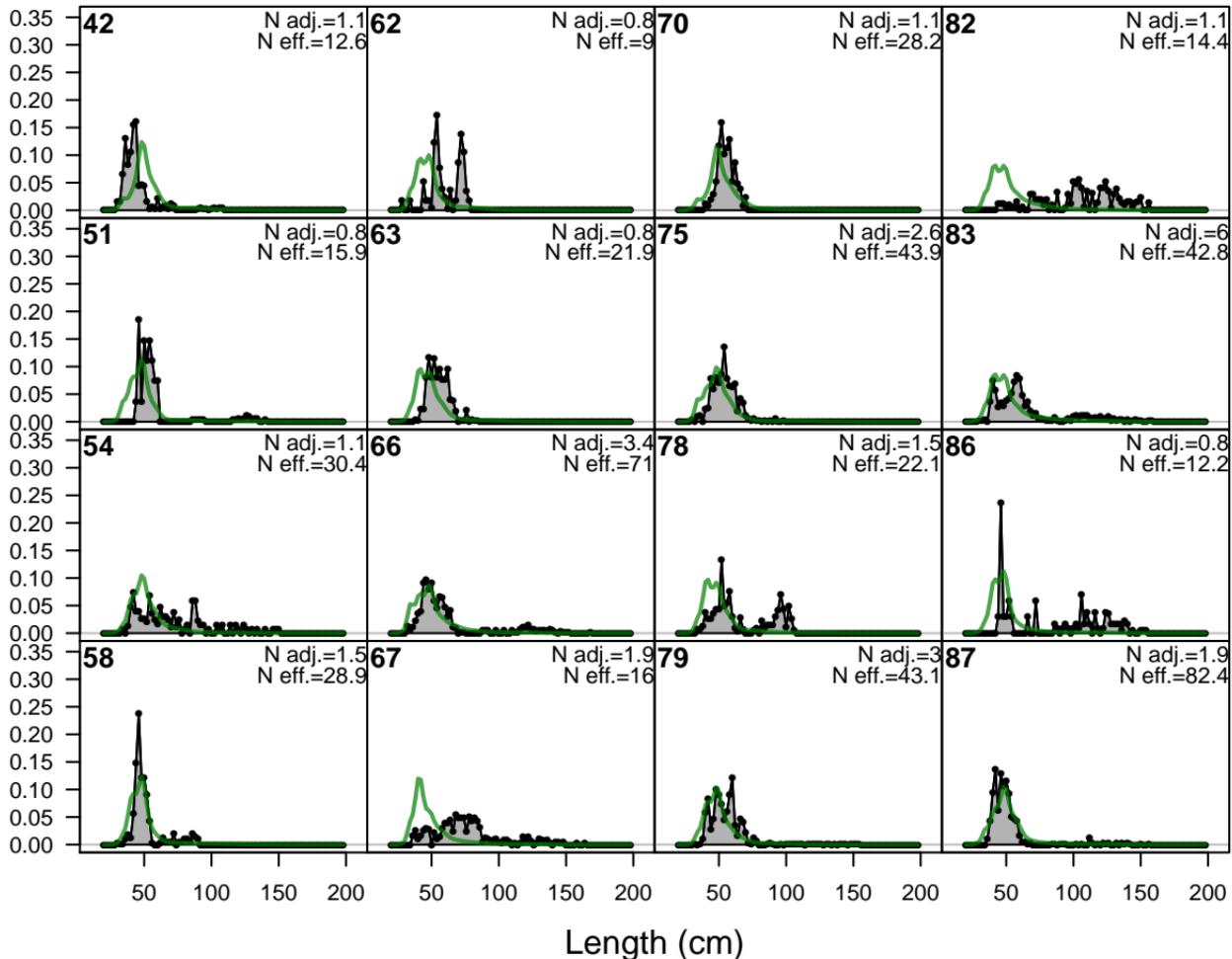




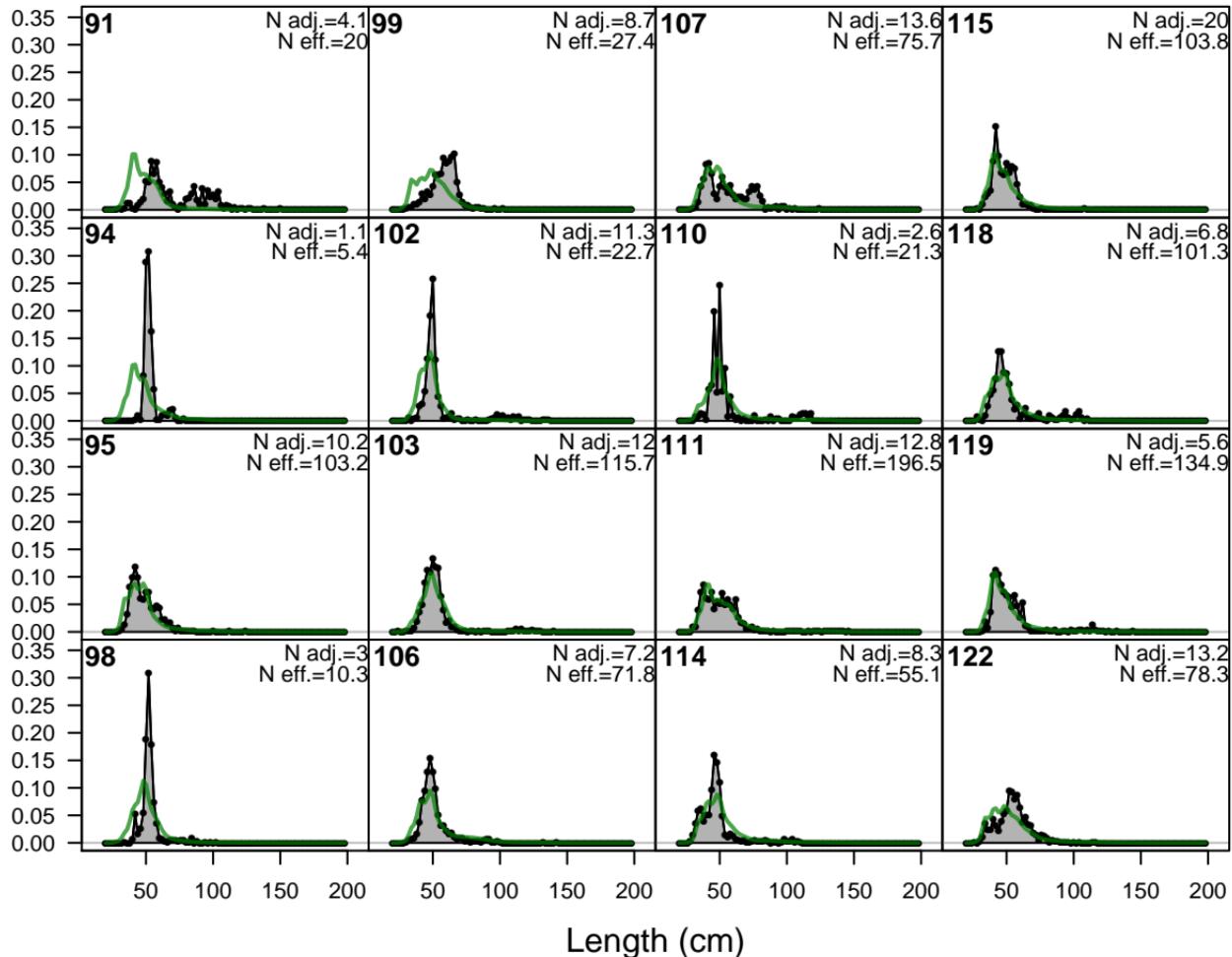
F5-OBJ_S_Q14 (whole catch)



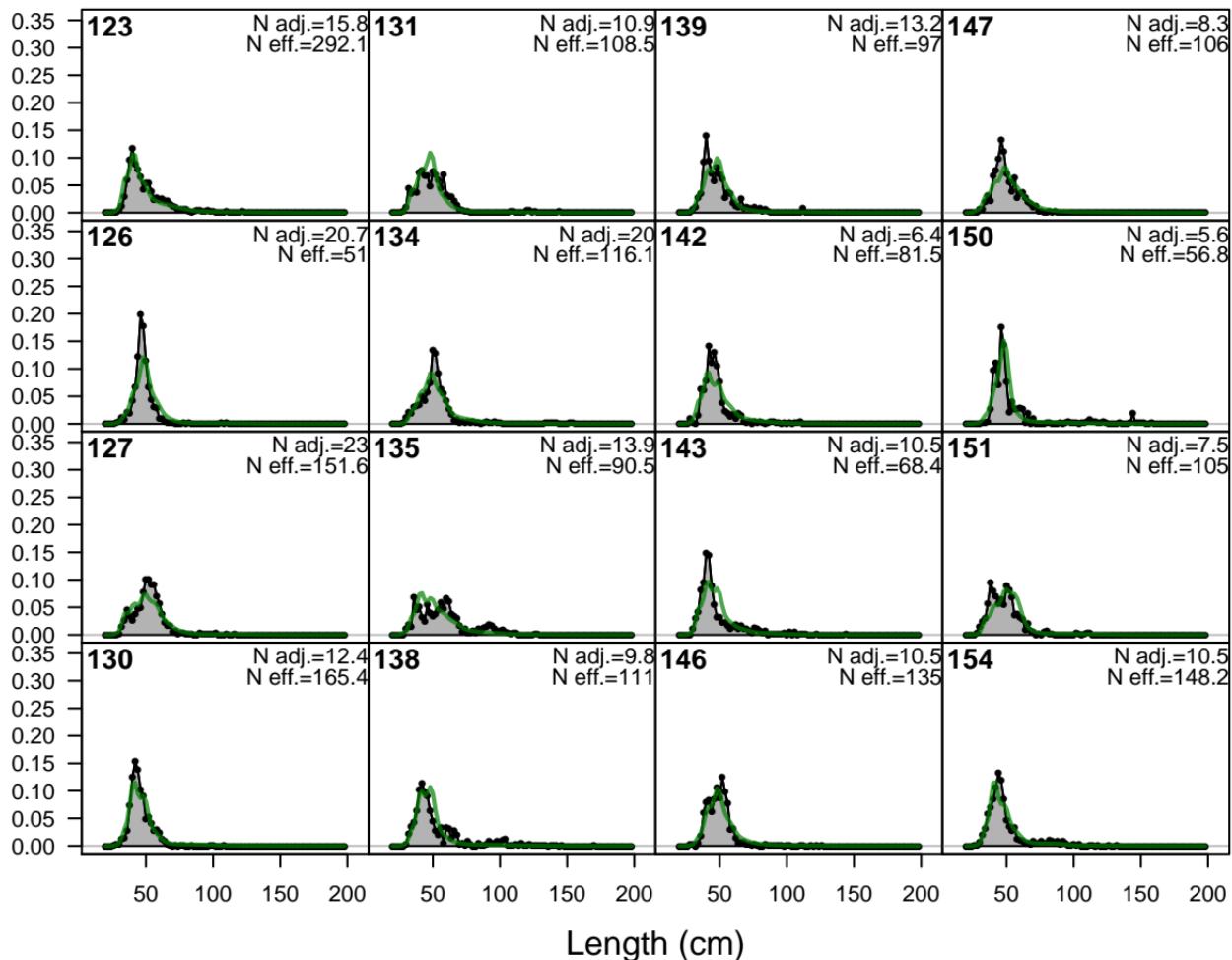
Proportion



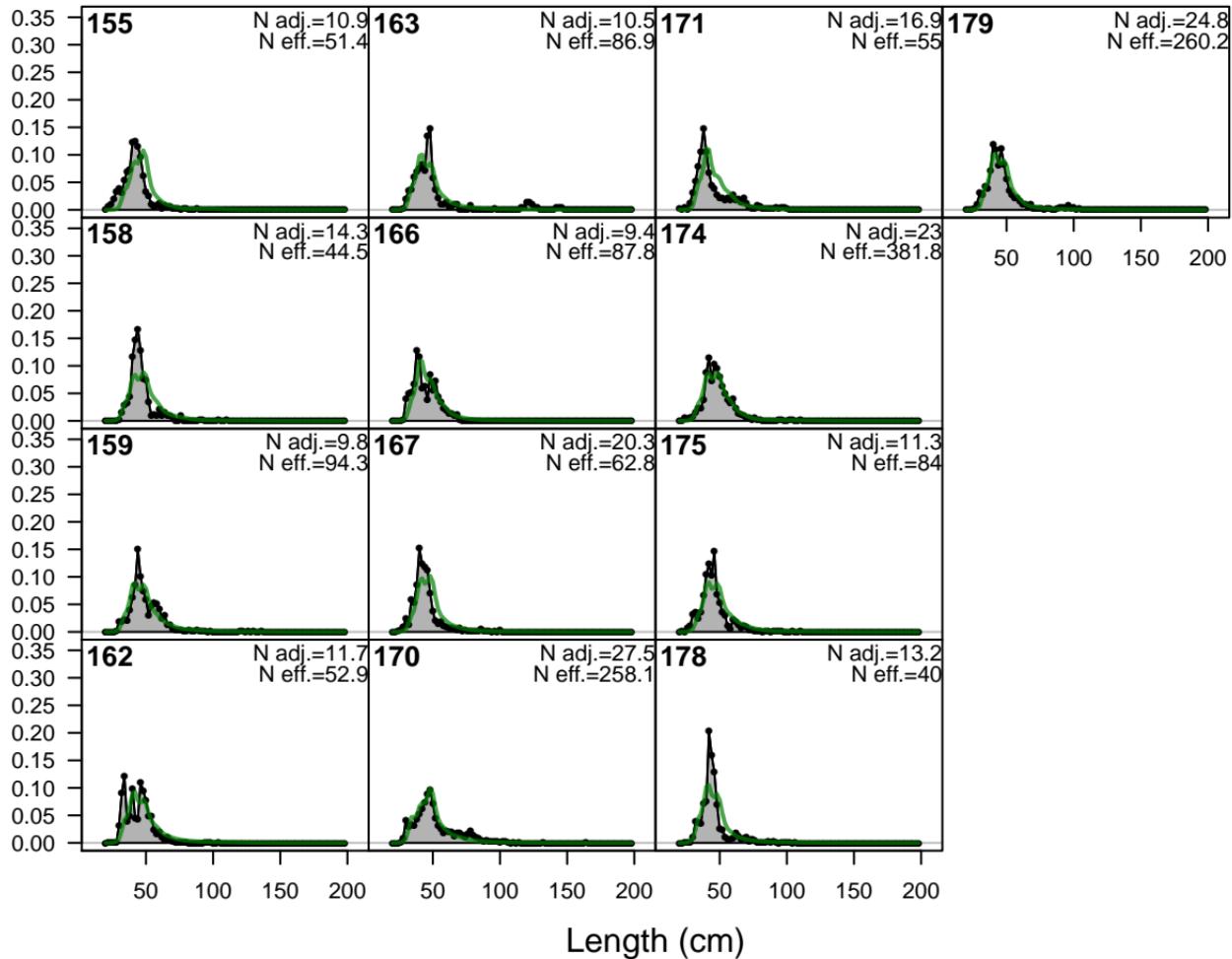
Proportion

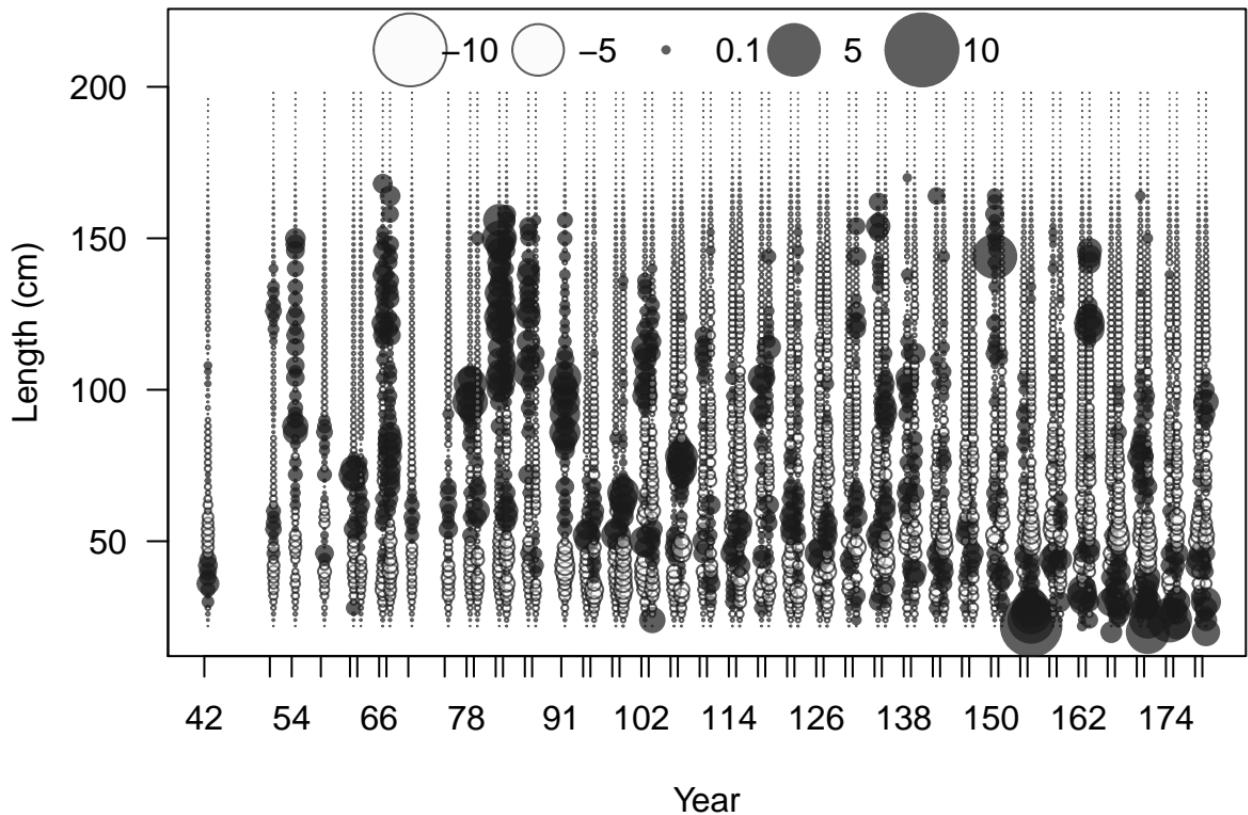


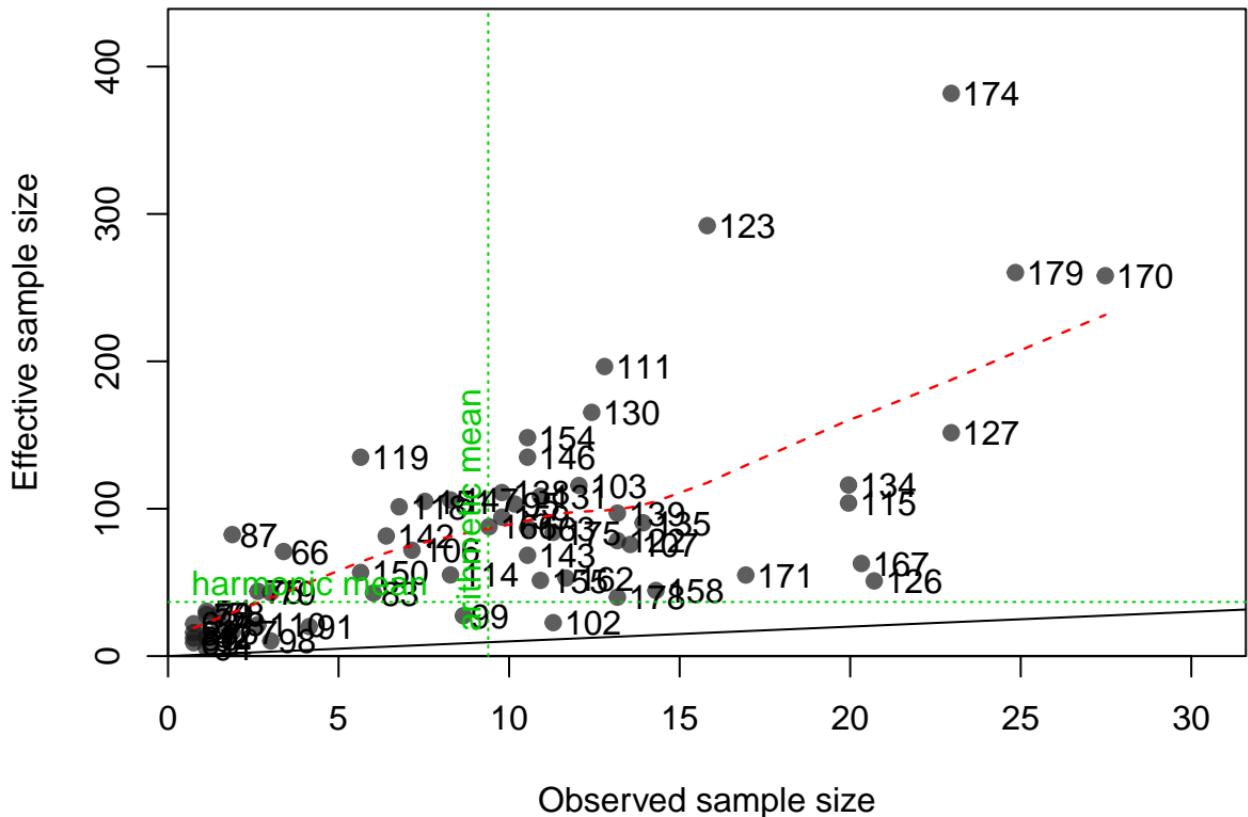
Proportion



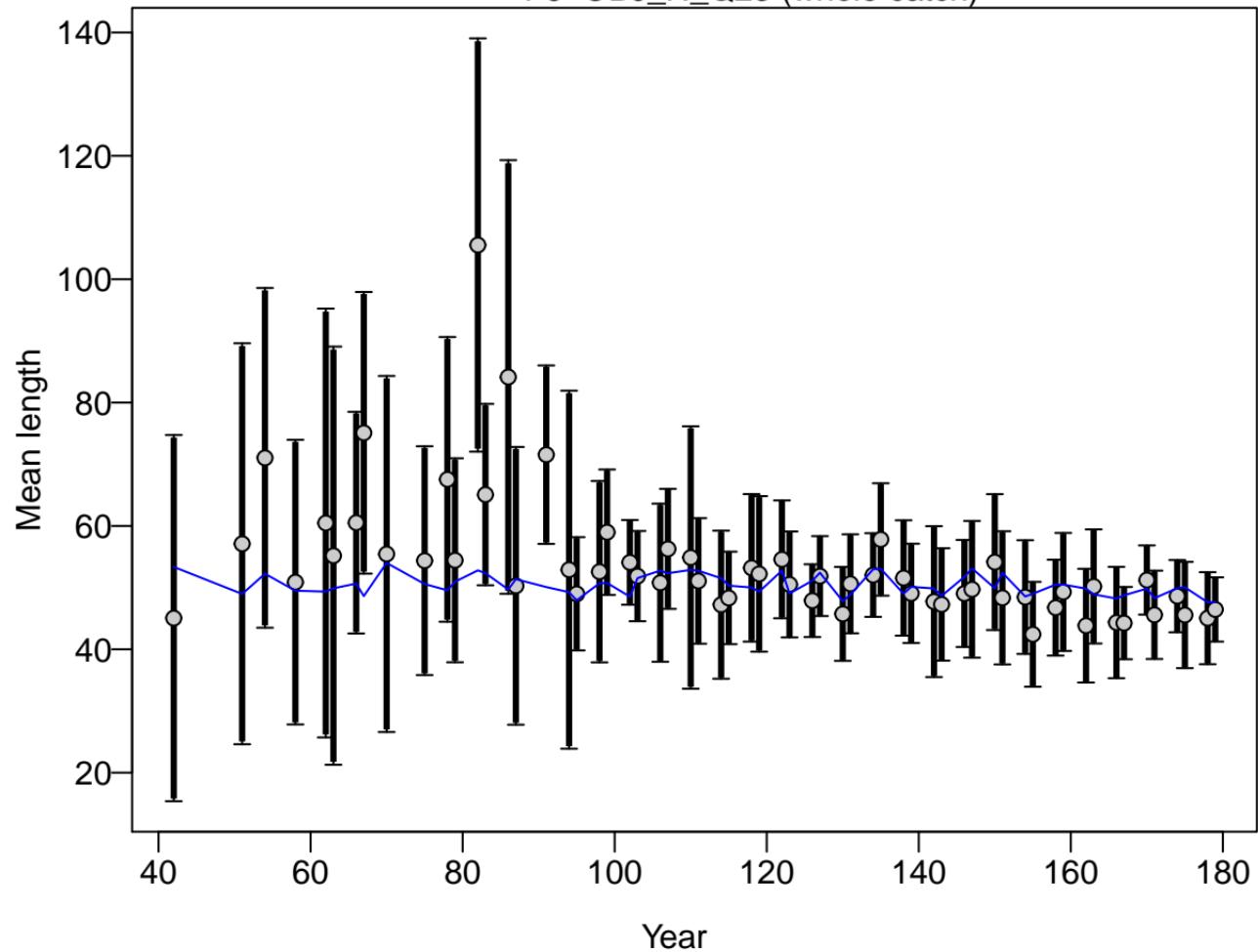
Proportion



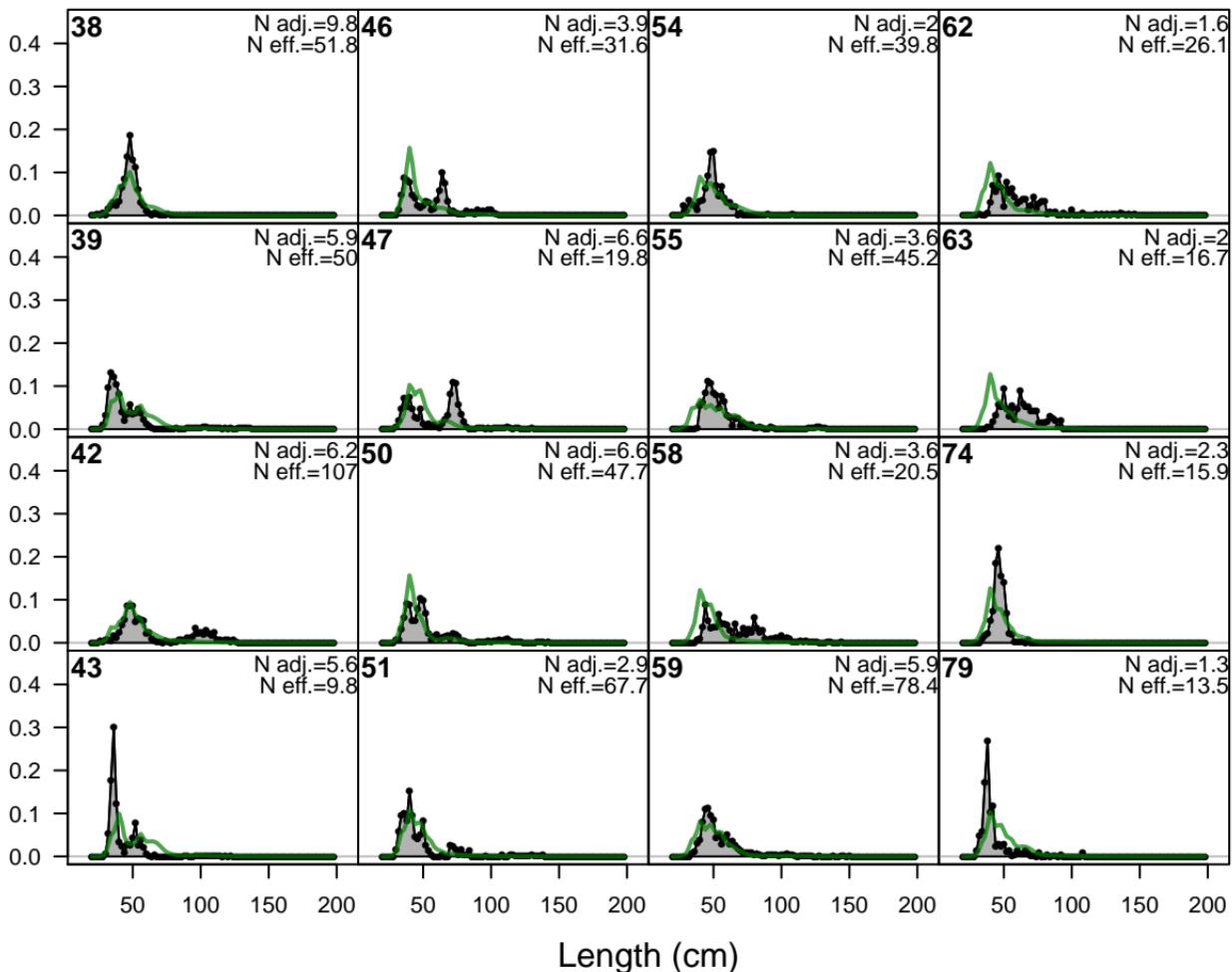




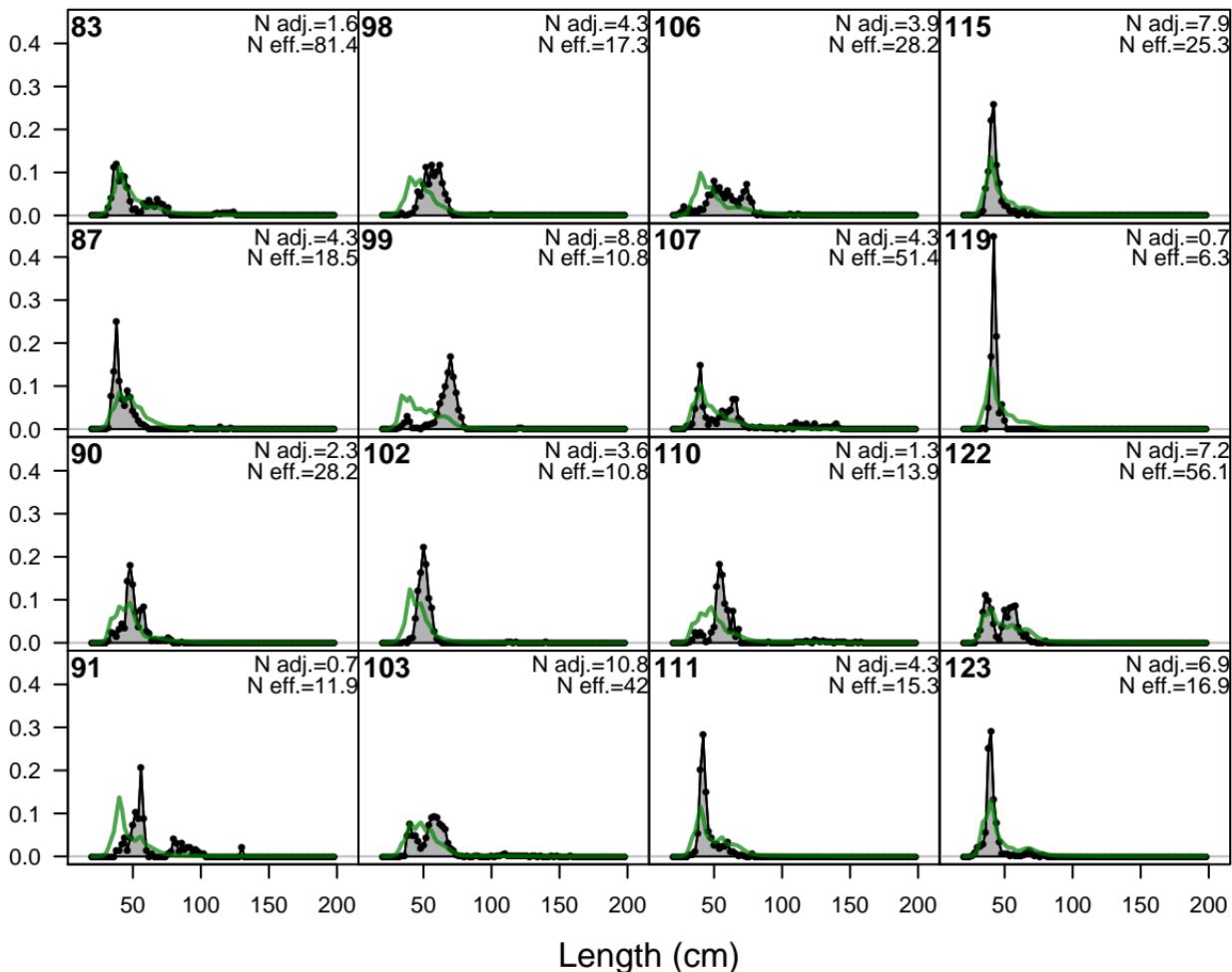
F6-OBJ_N_Q23 (whole catch)



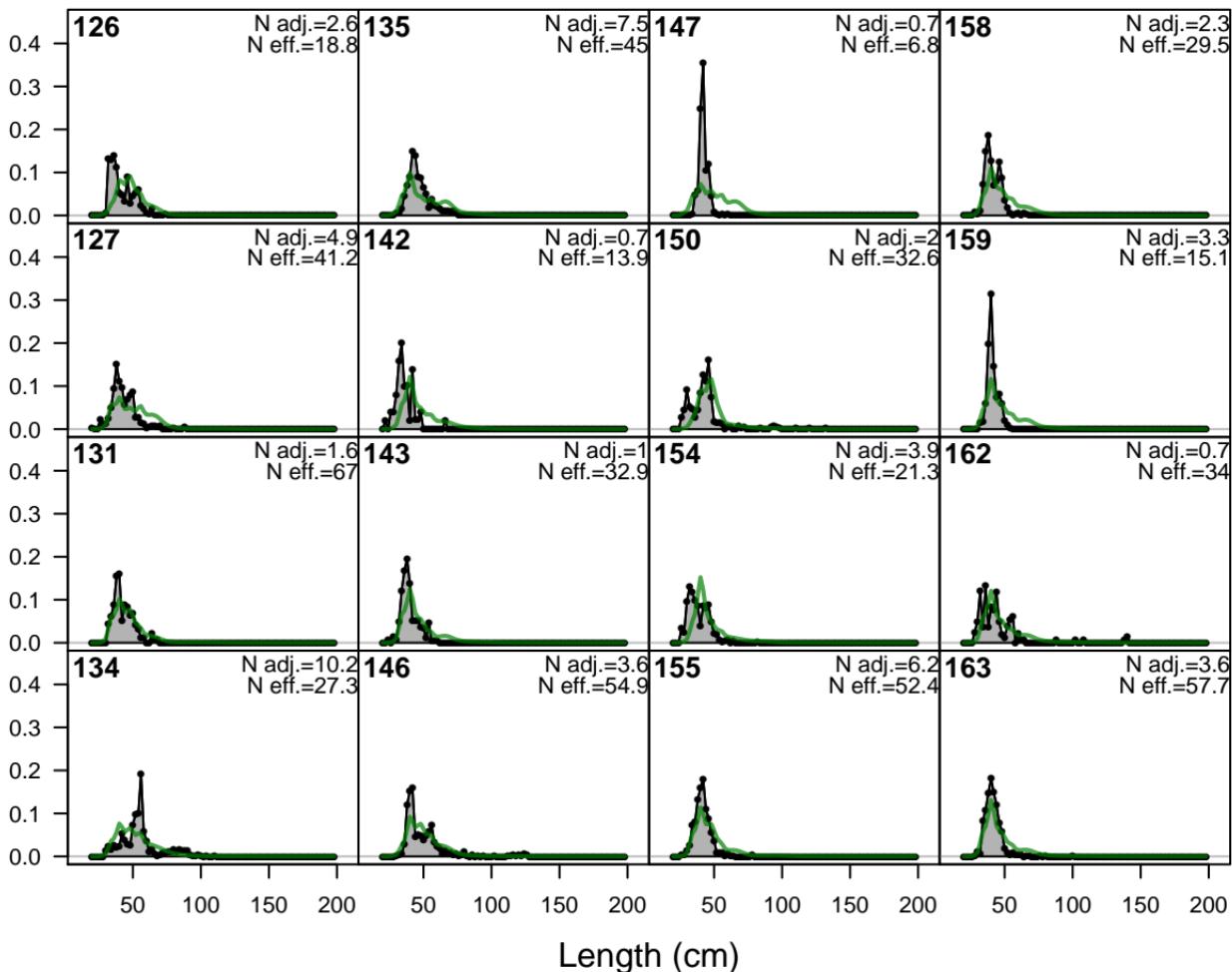
Proportion



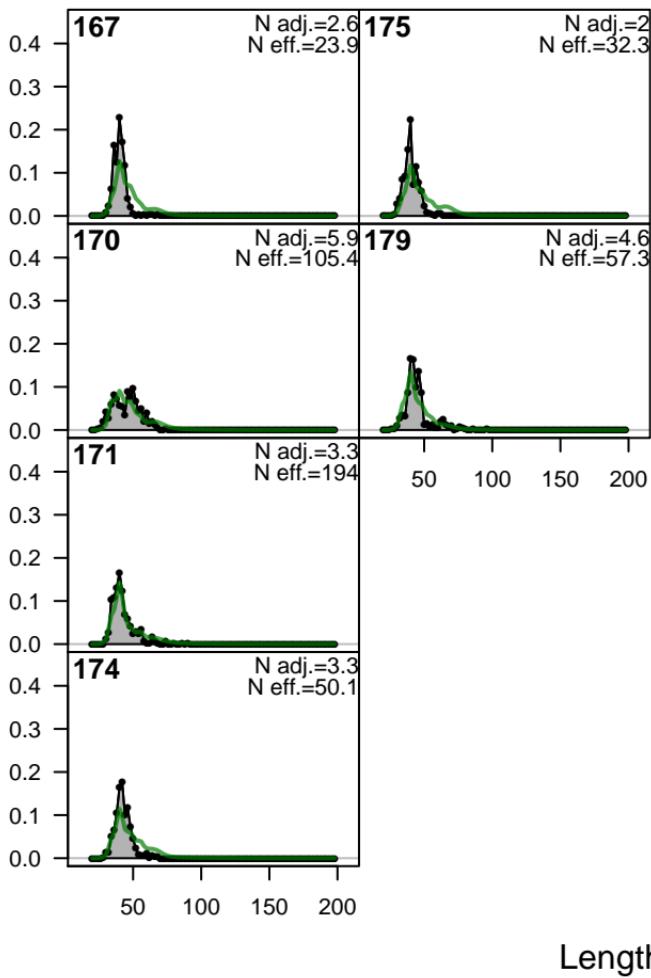
Proportion

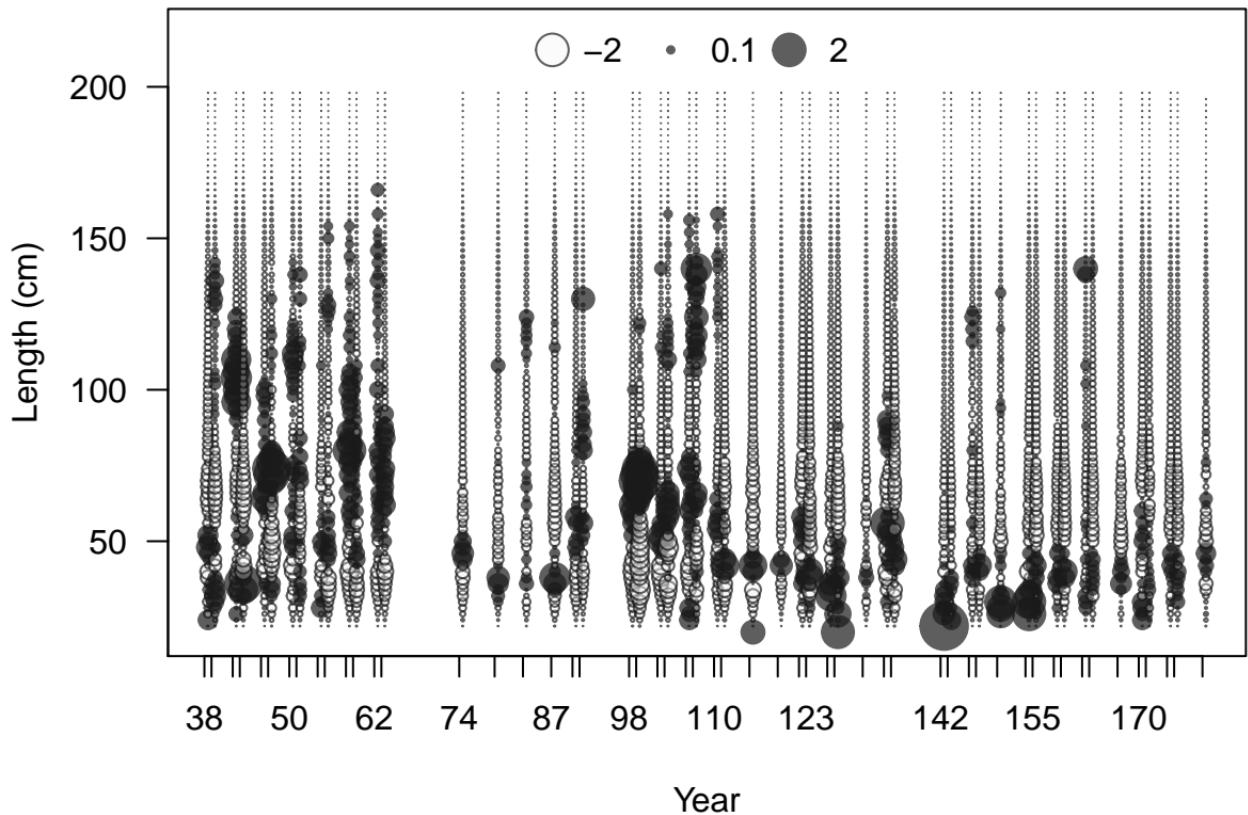


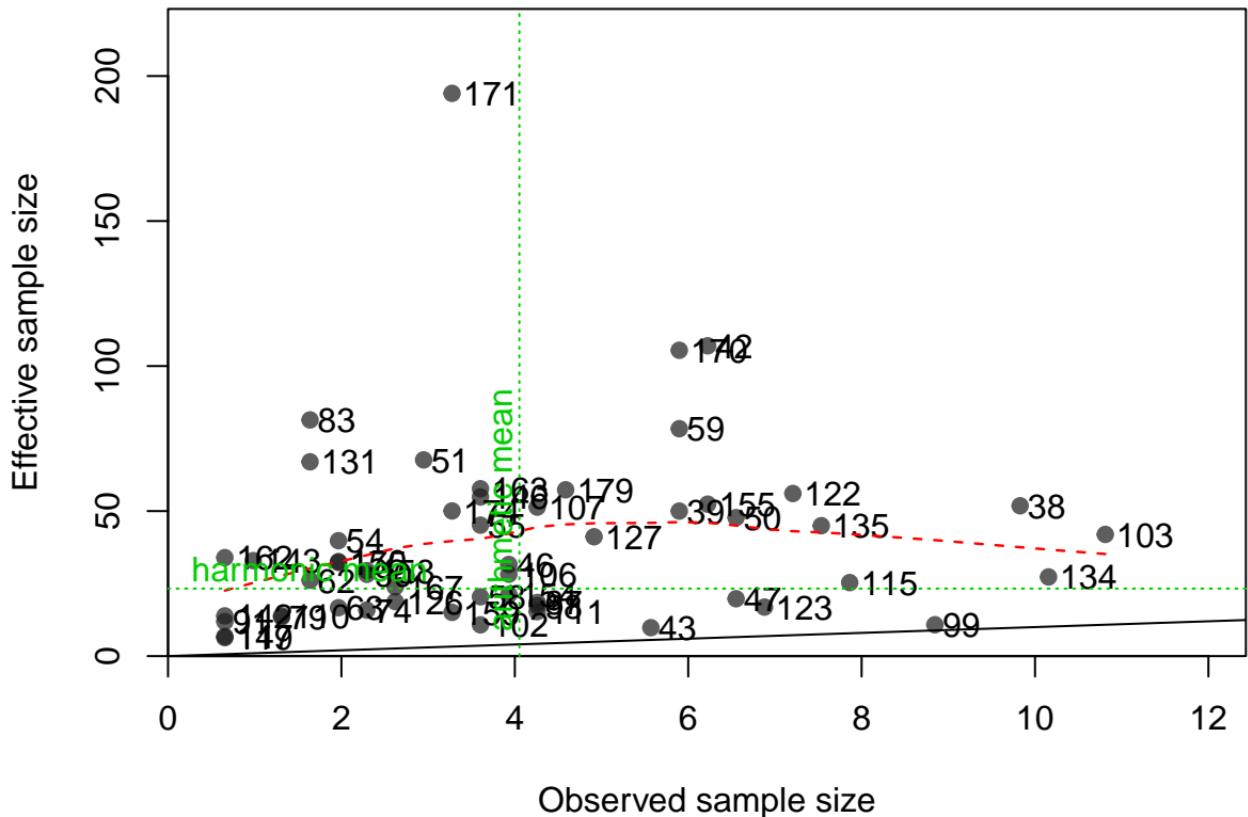
Proportion



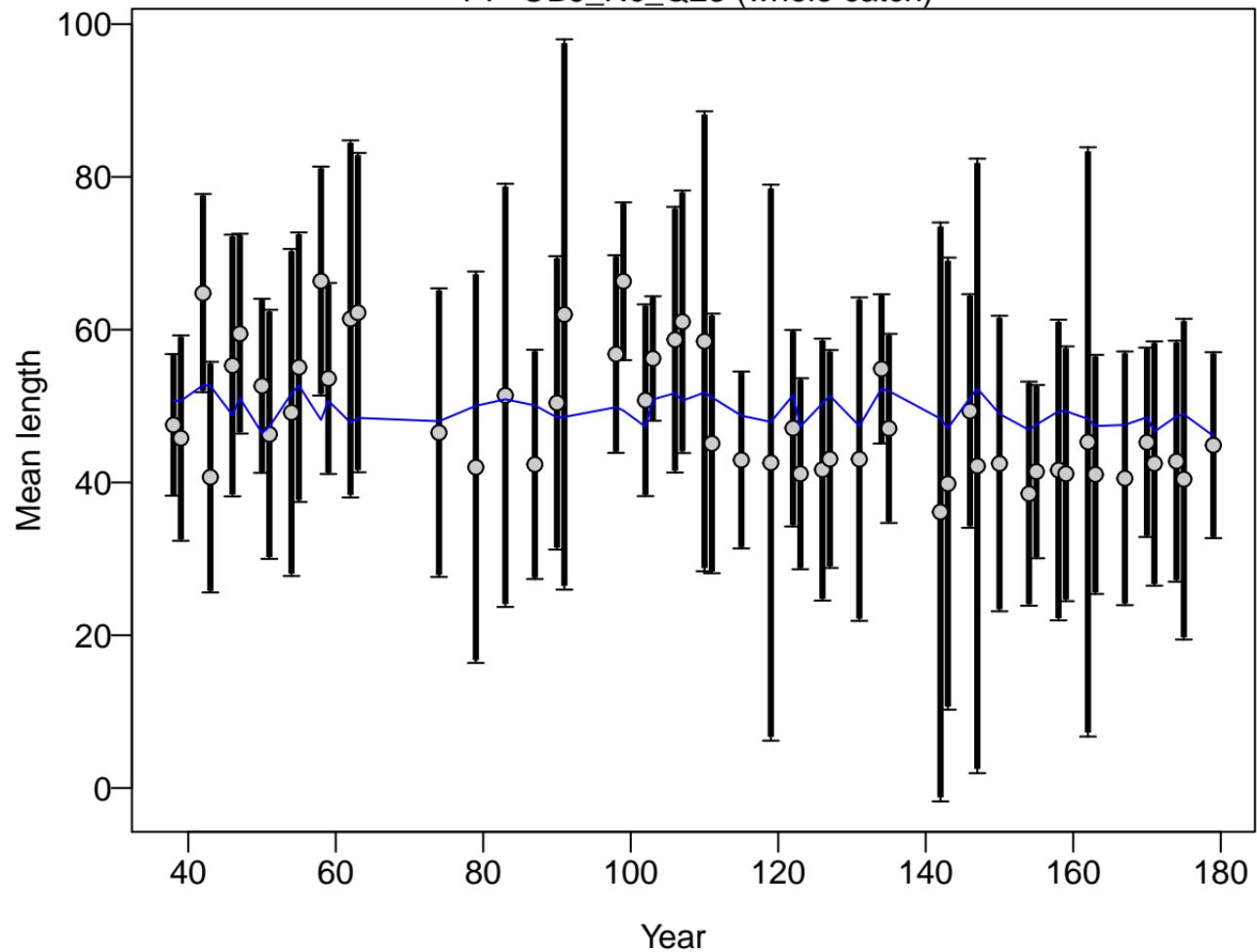
Proportion



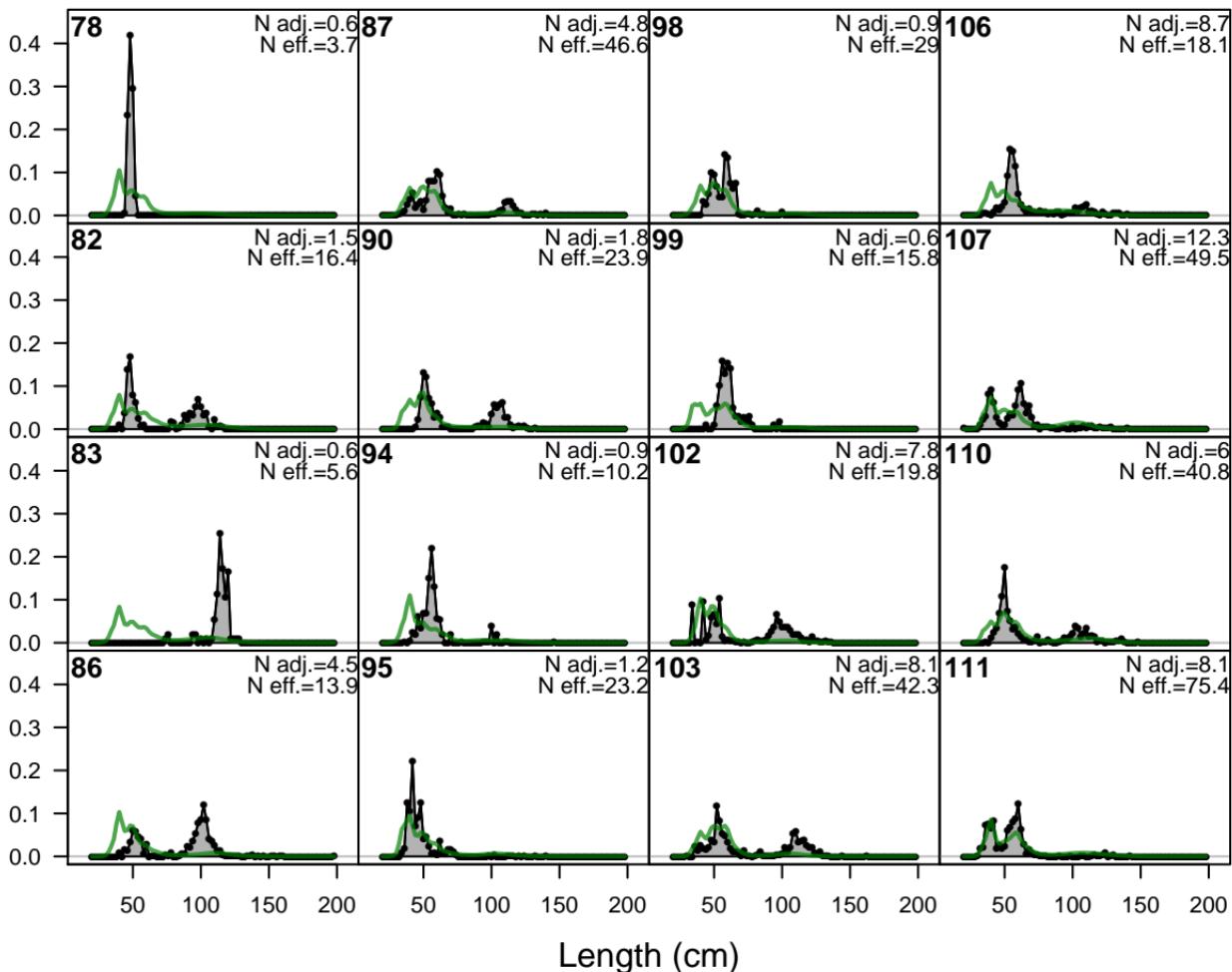




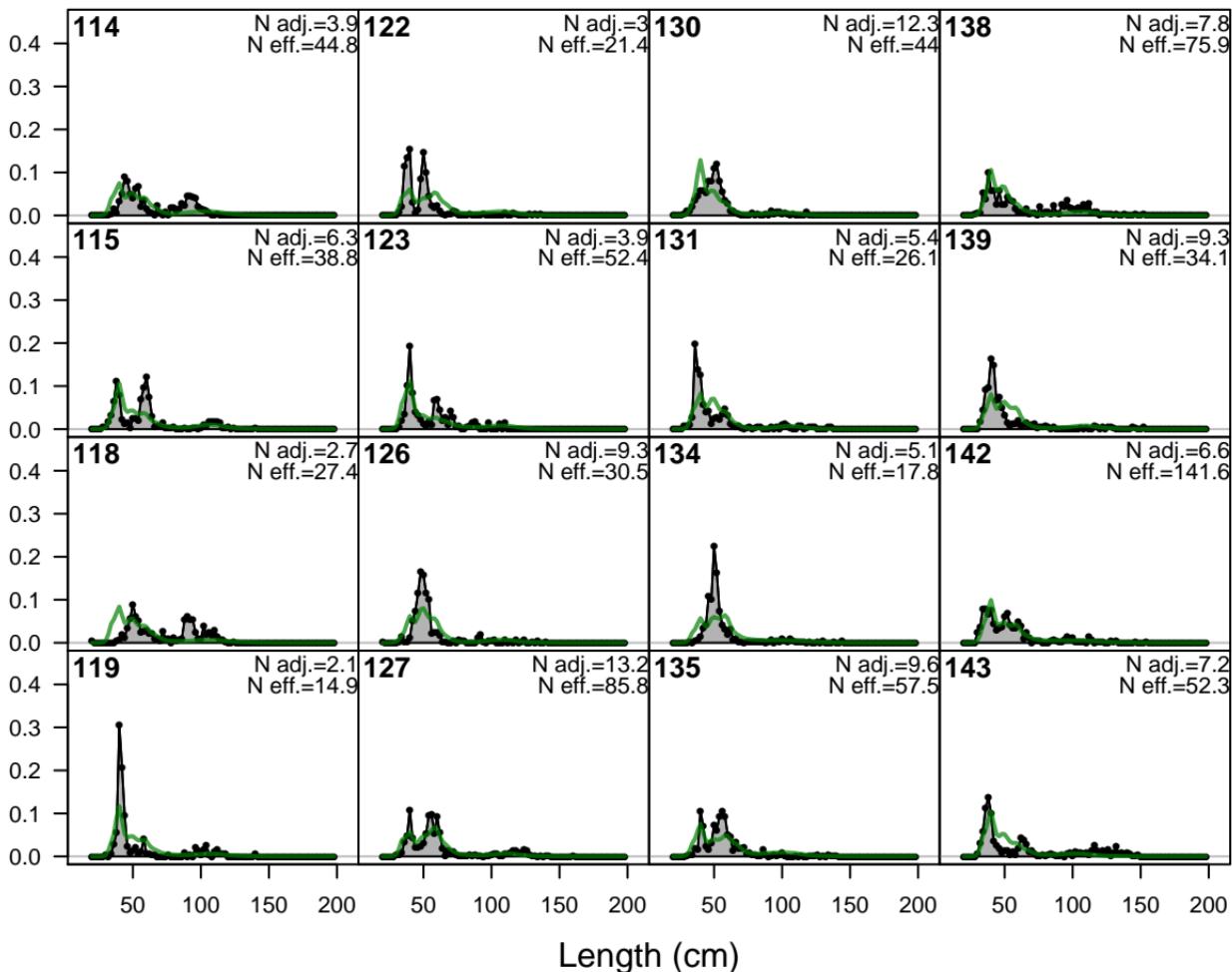
F7-OBJ_Nc_Q23 (whole catch)



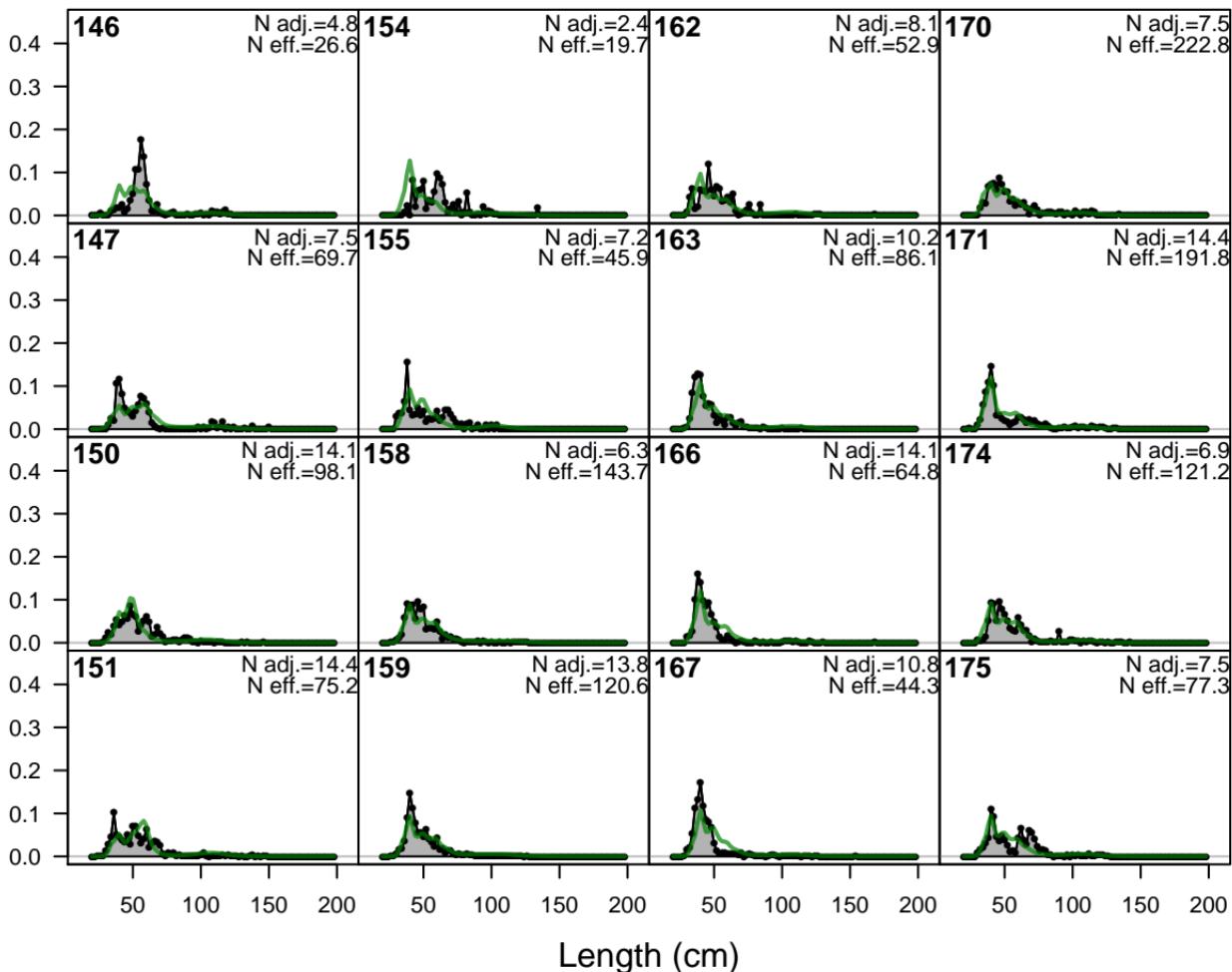
Proportion



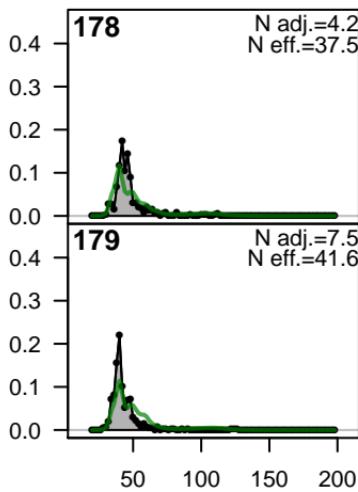
Proportion

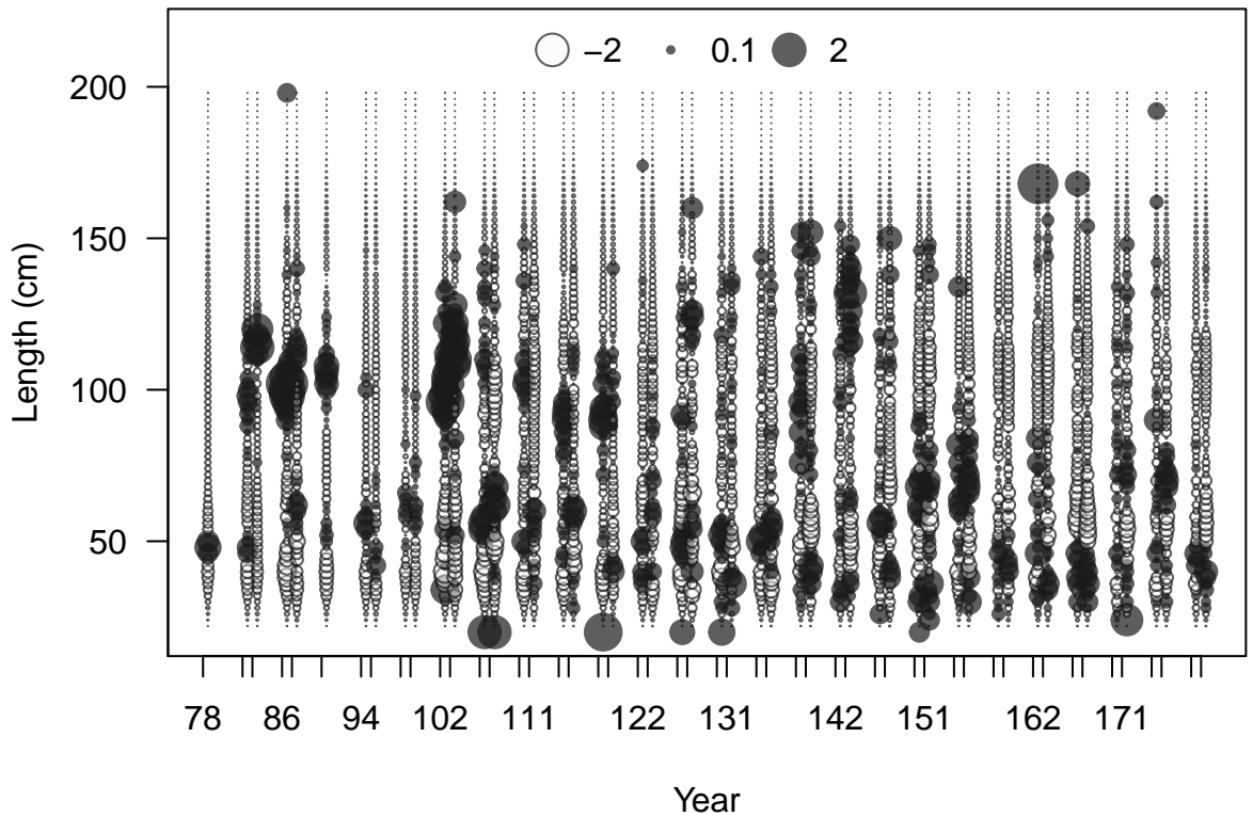


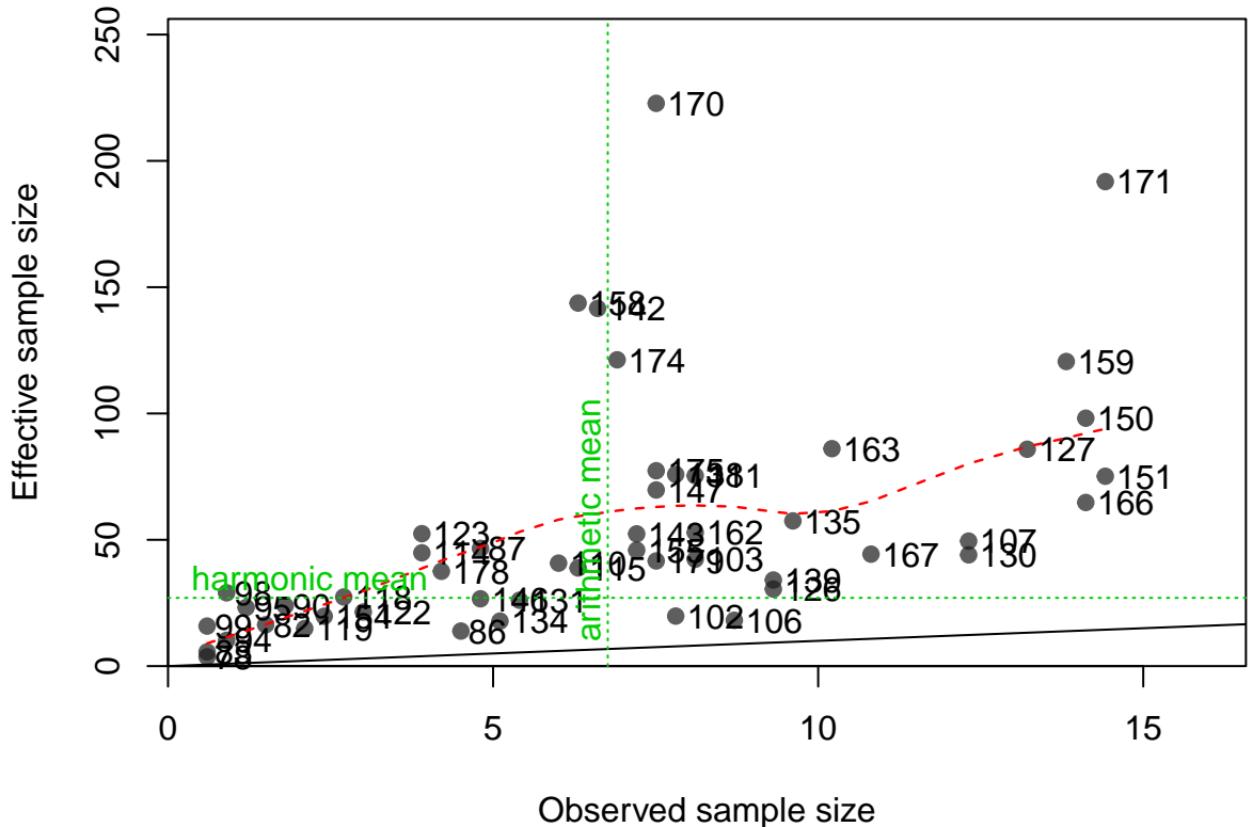
Proportion



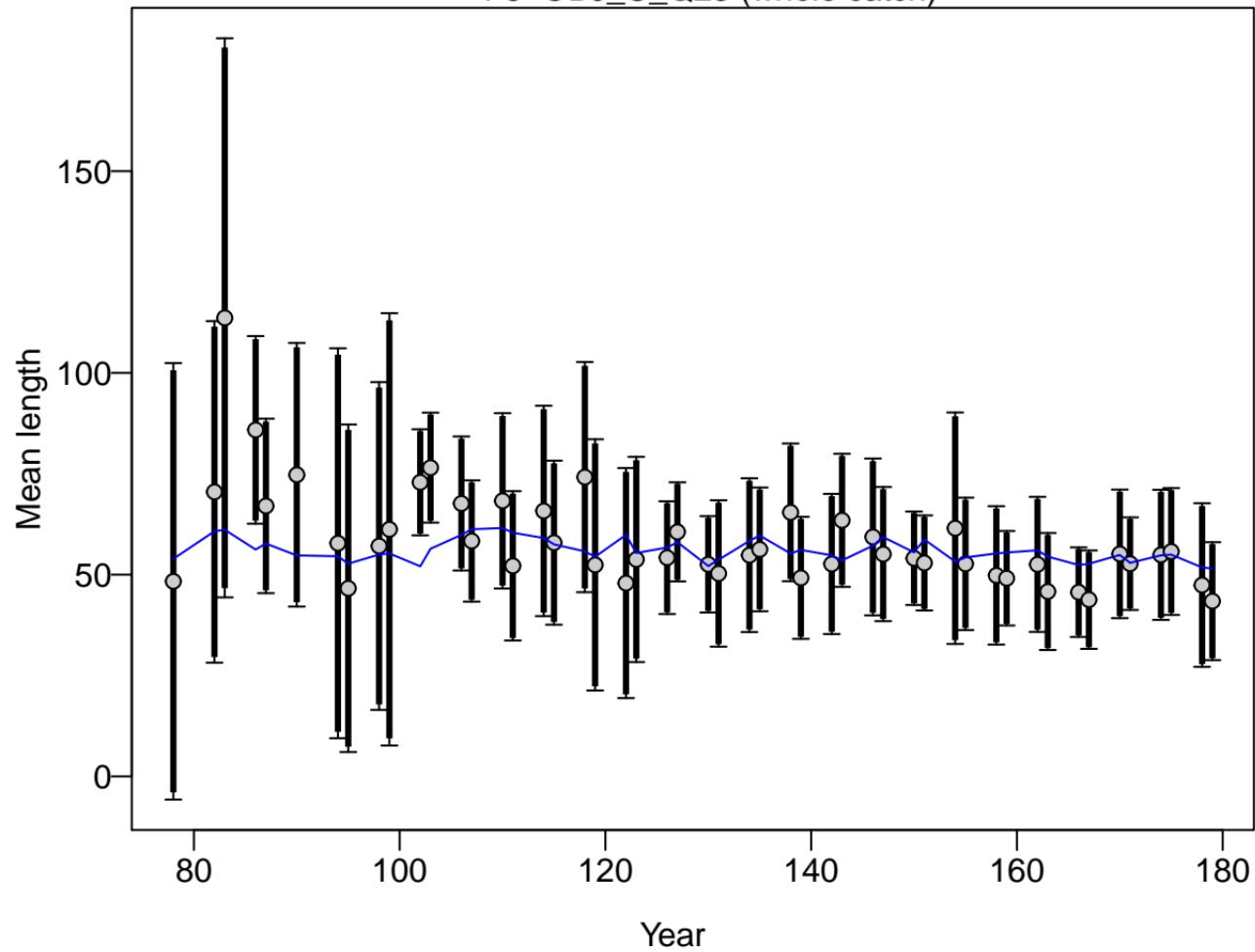
Proportion



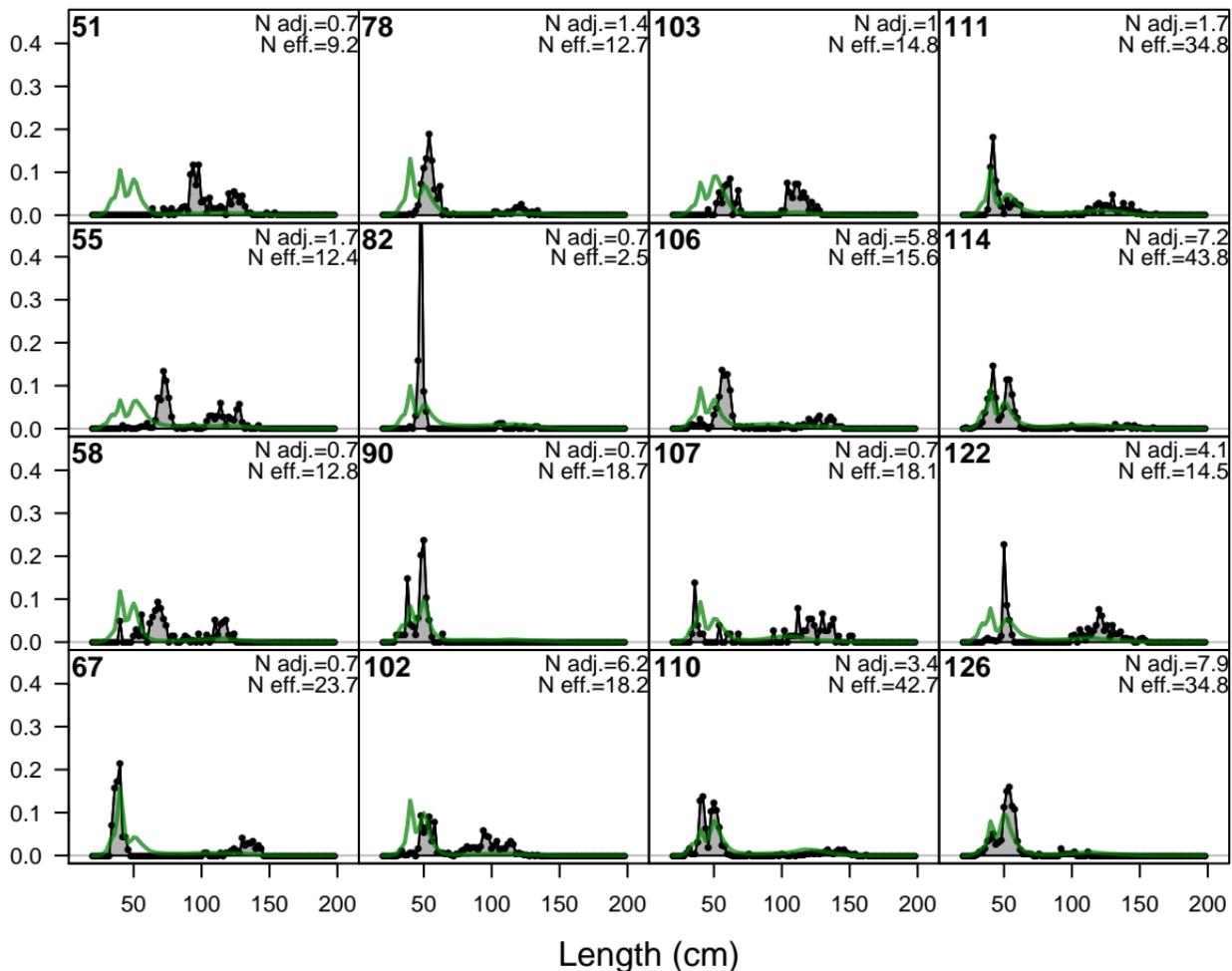




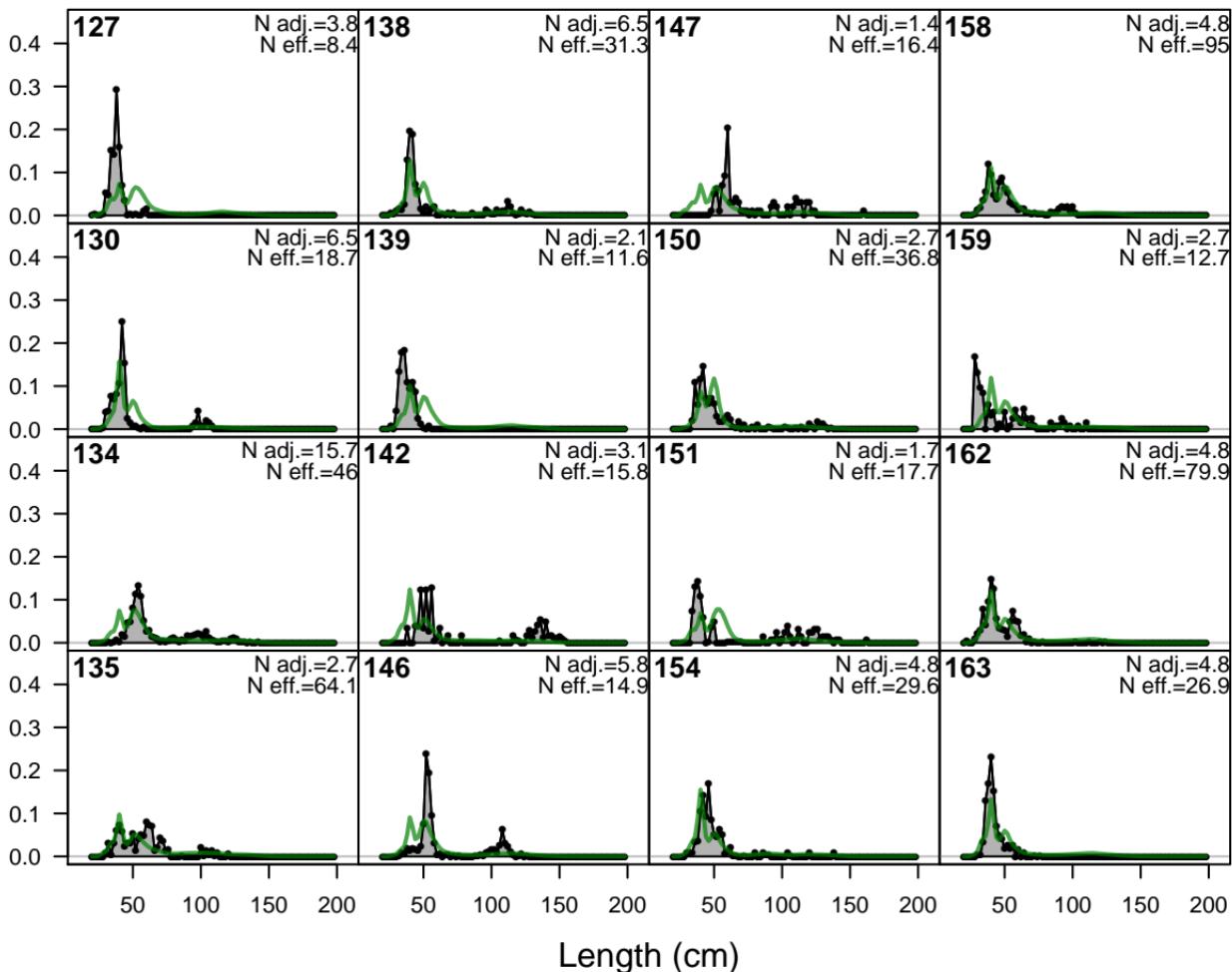
F8-OBJ_C_Q23 (whole catch)



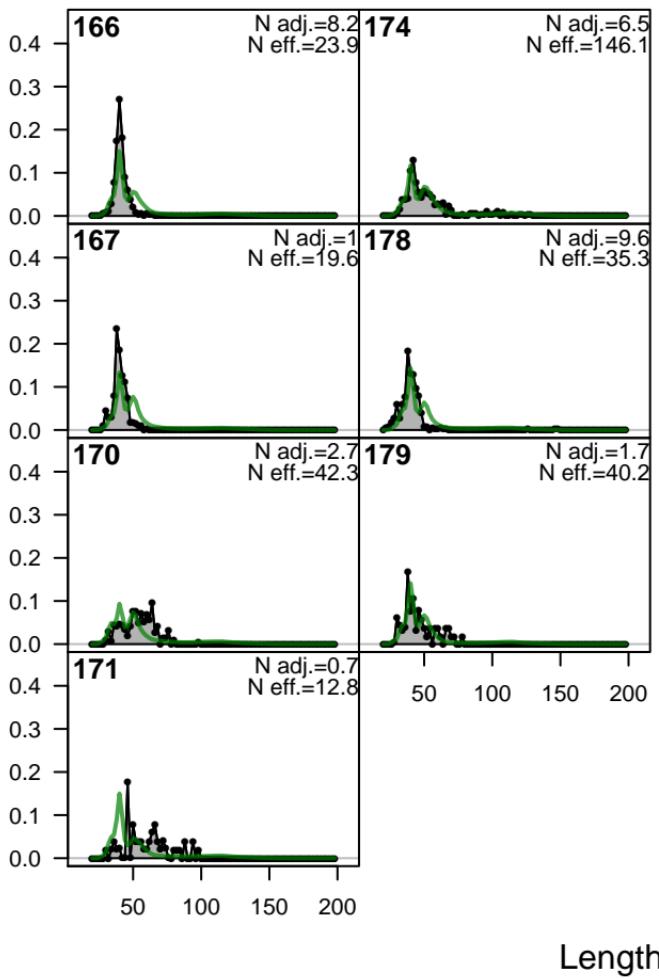
Proportion

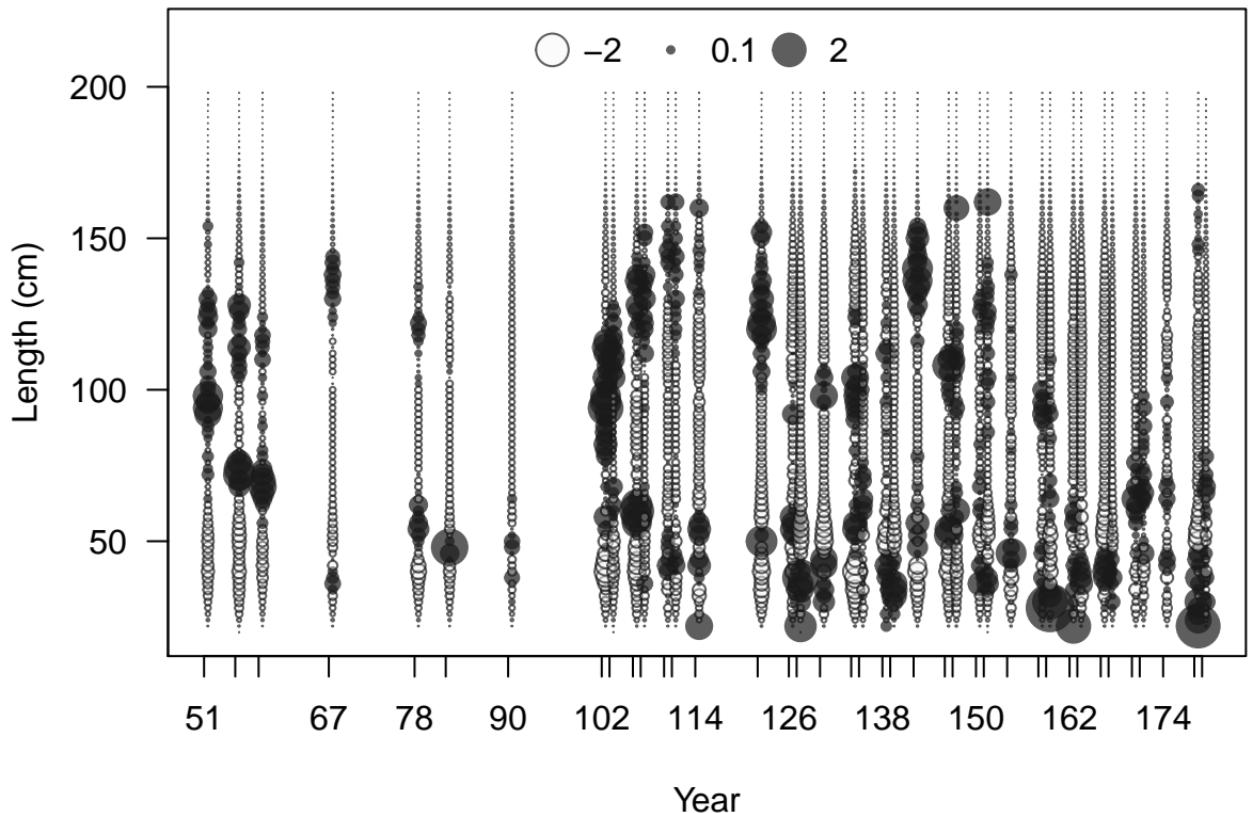


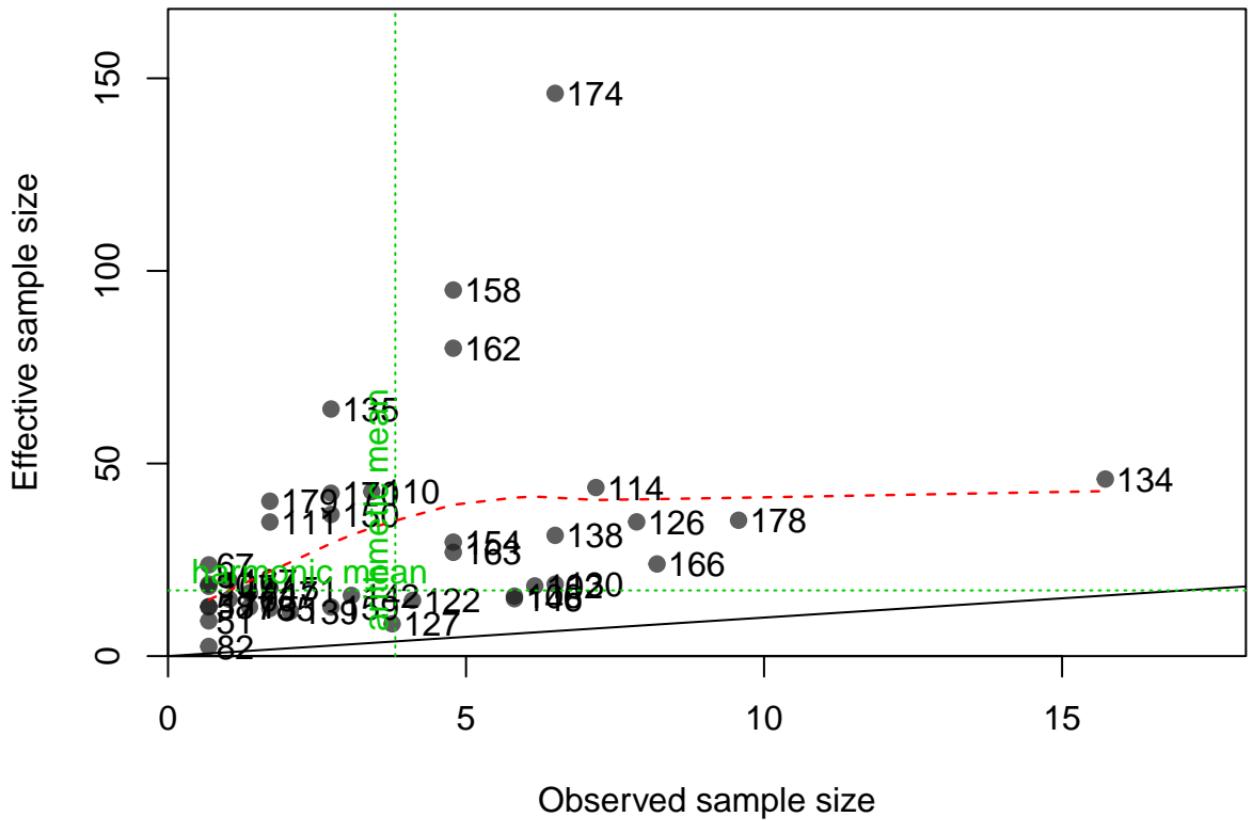
Proportion



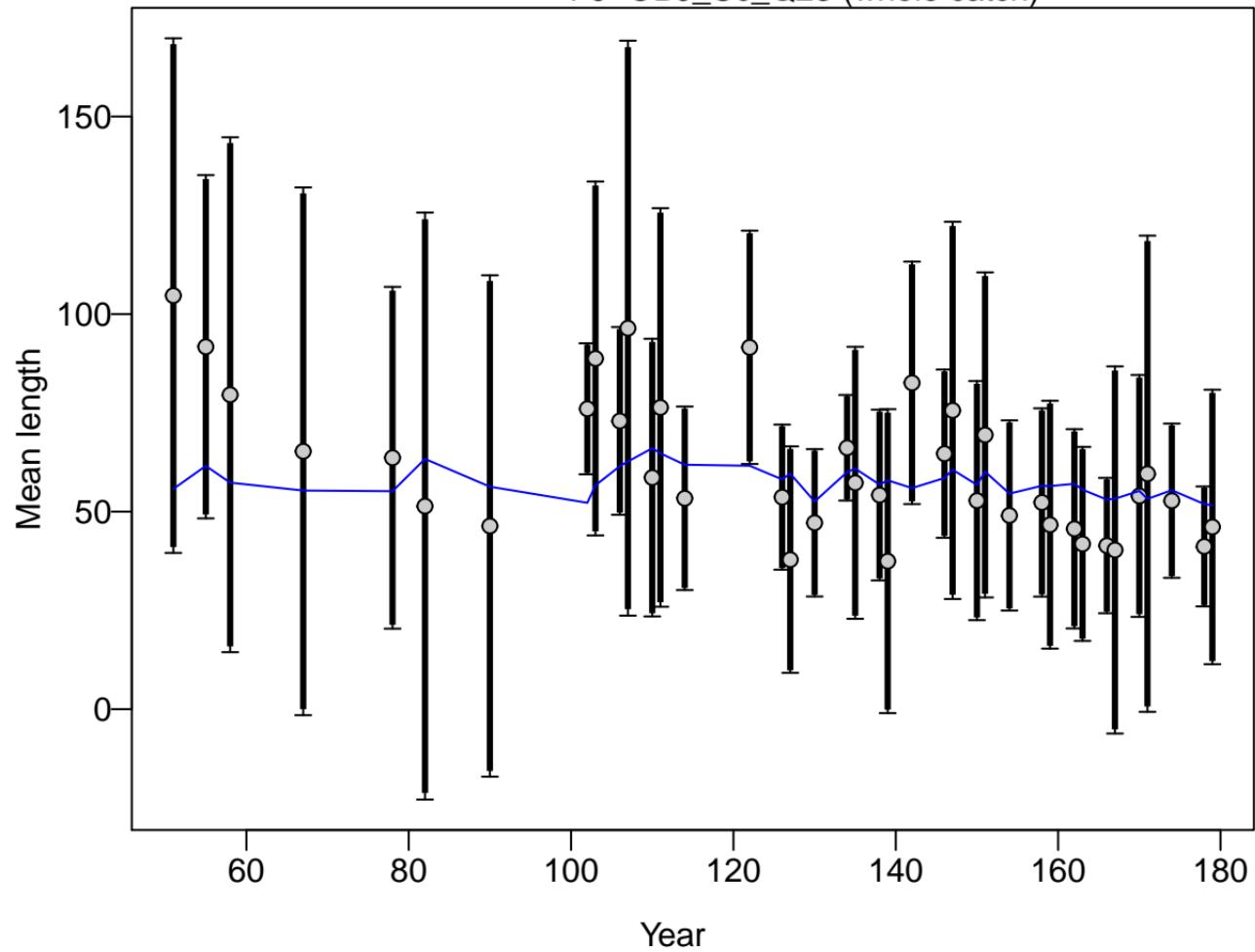
Proportion



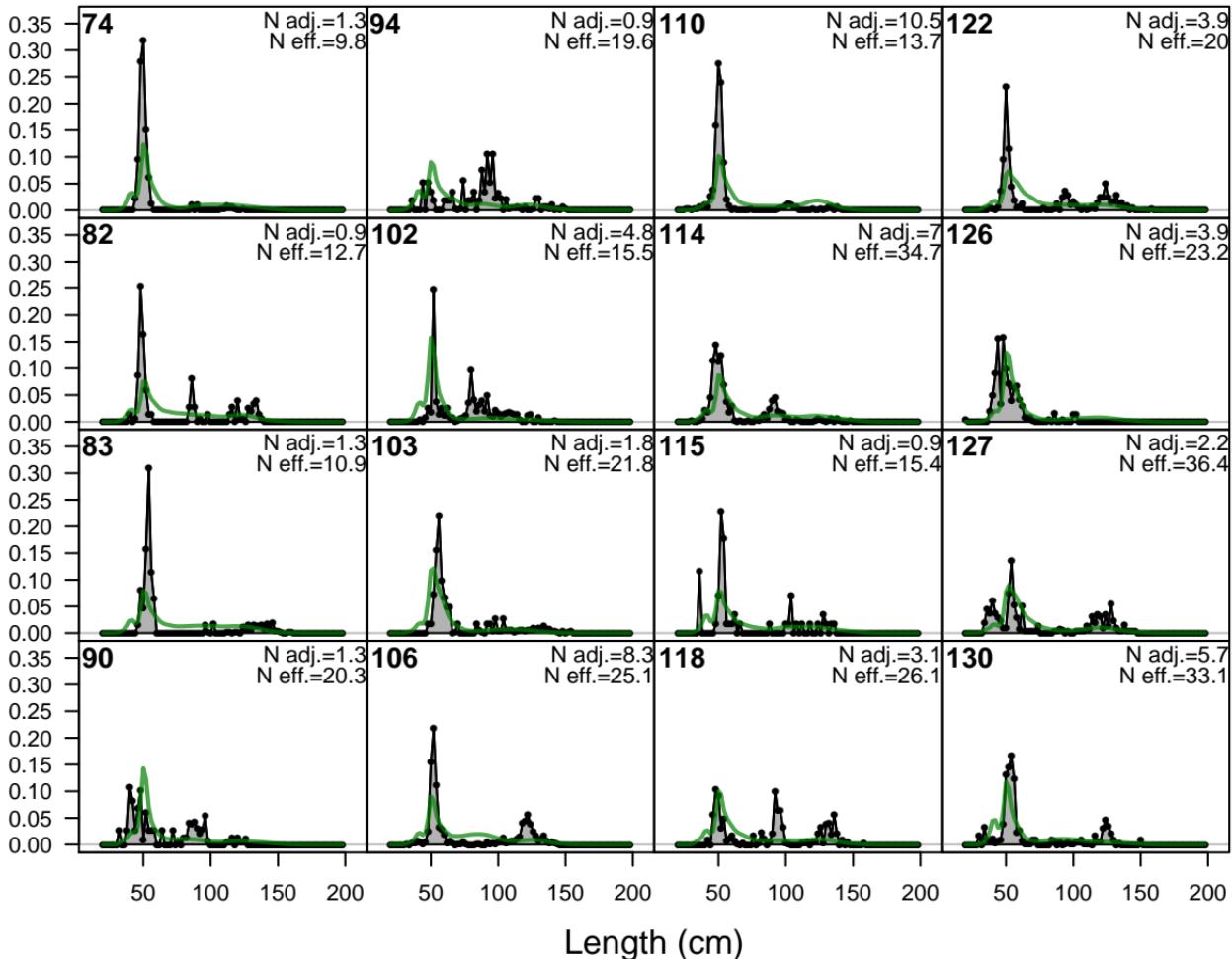




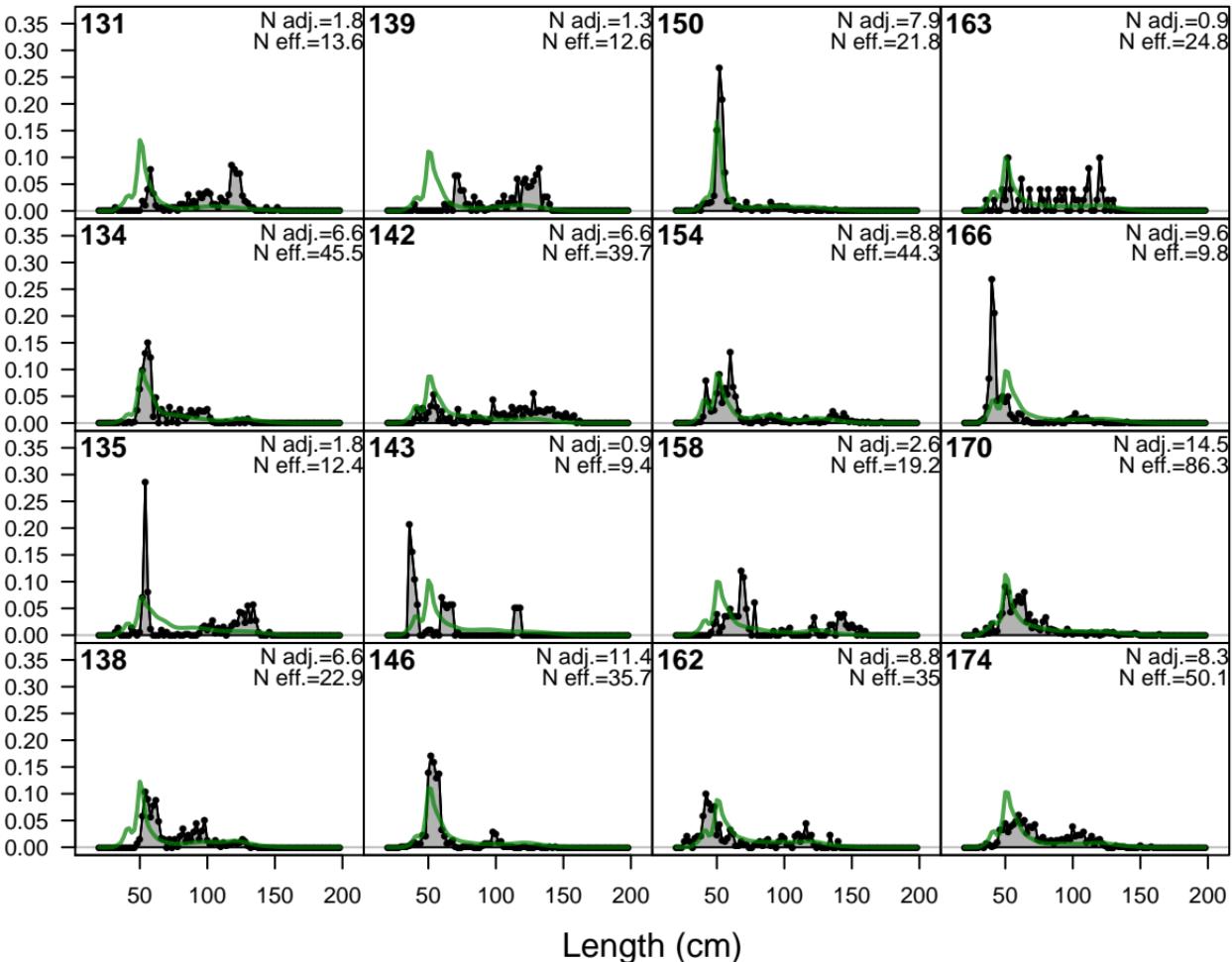
F9-OBJ_Cc_Q23 (whole catch)



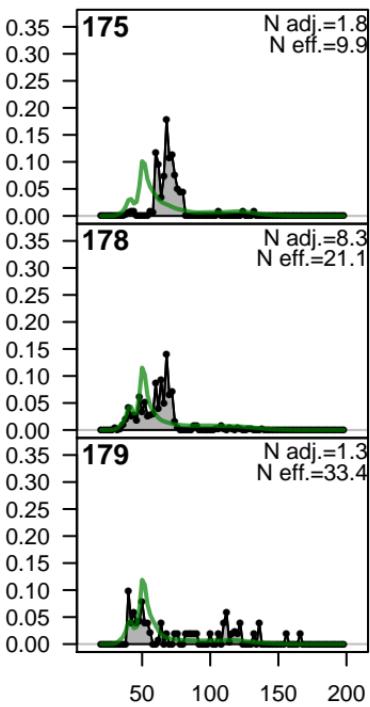
Proportion

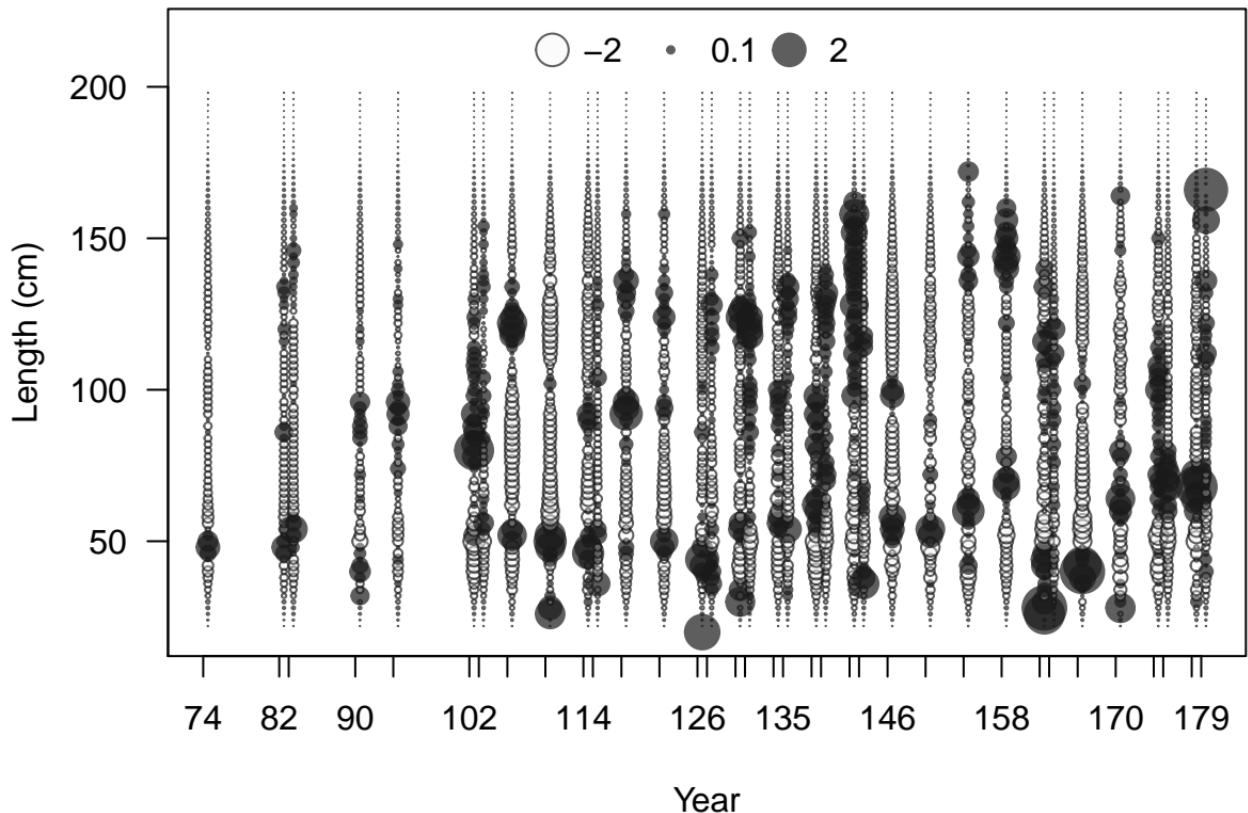


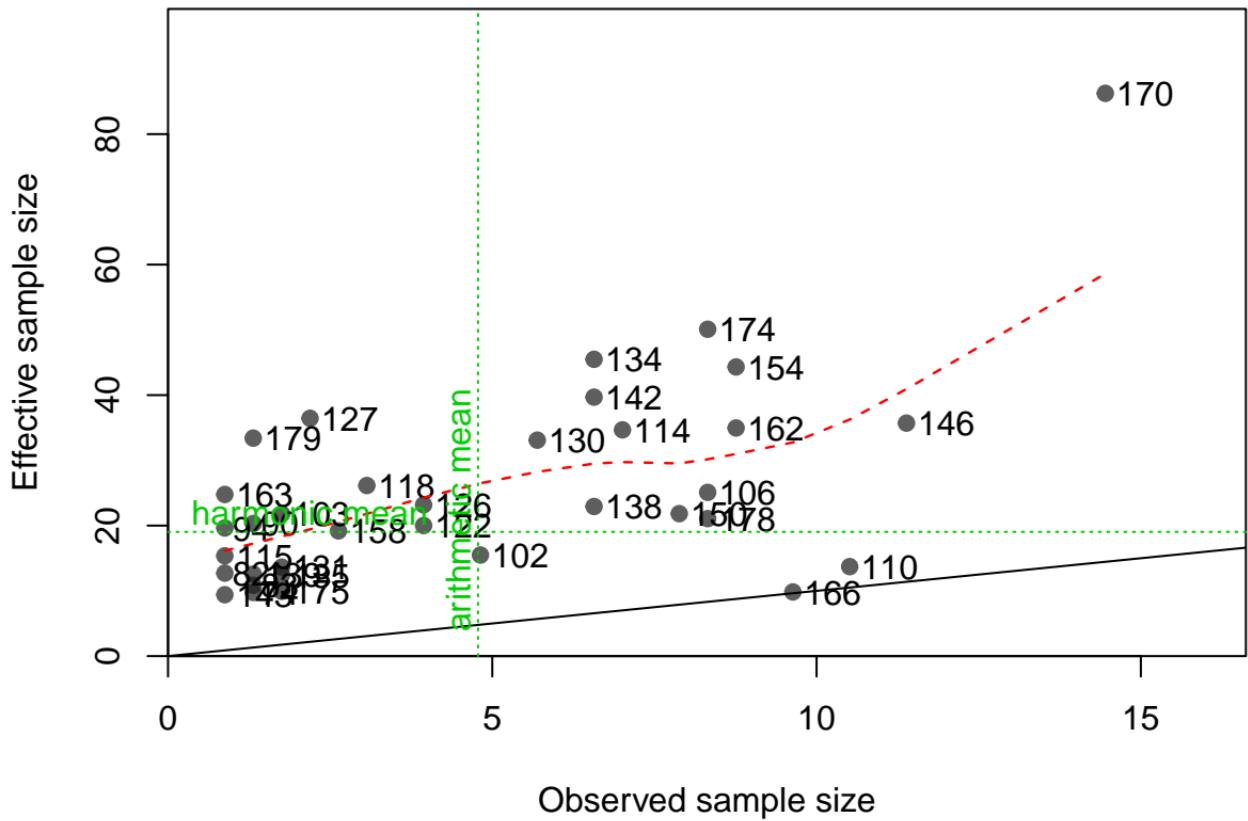
Proportion



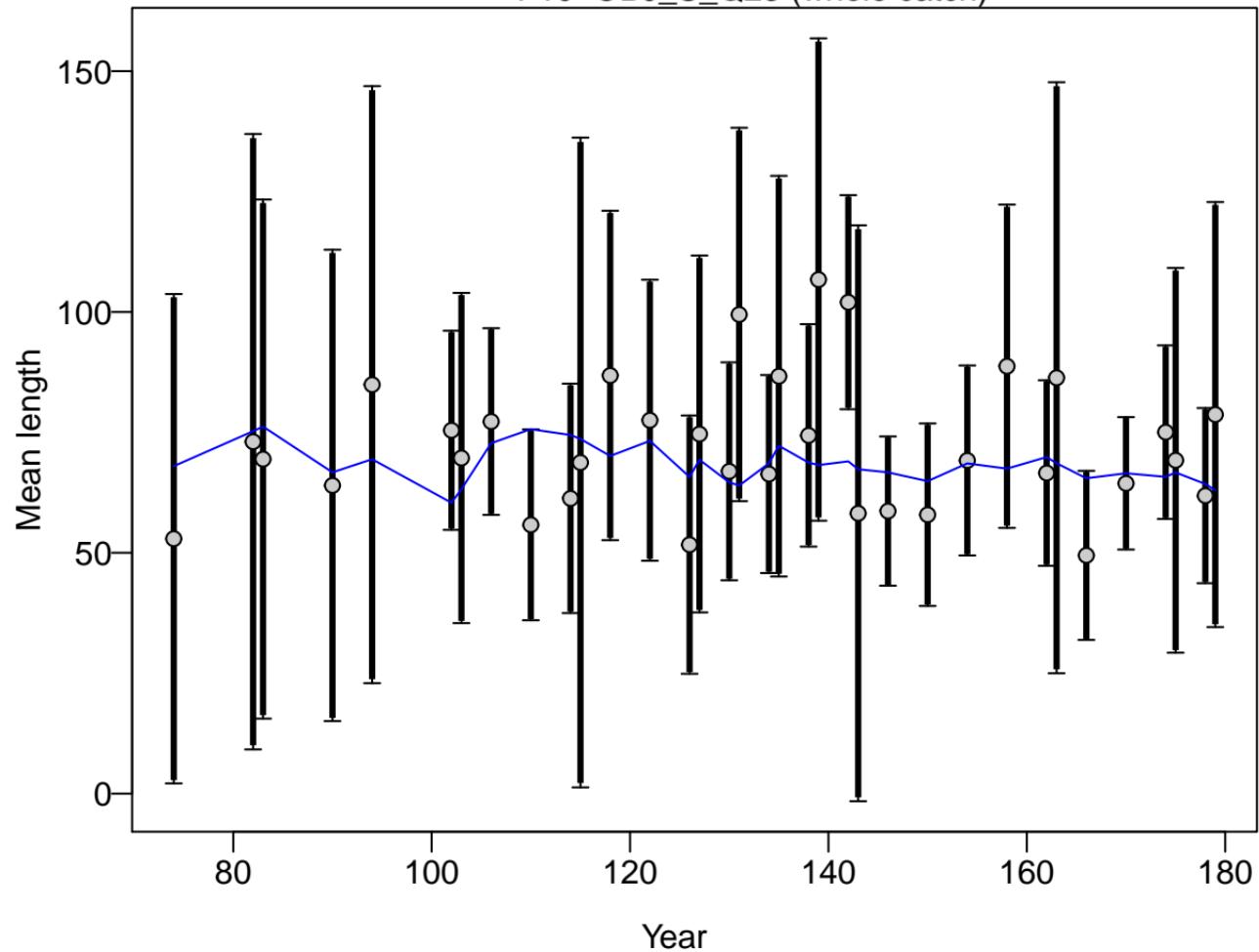
Proportion



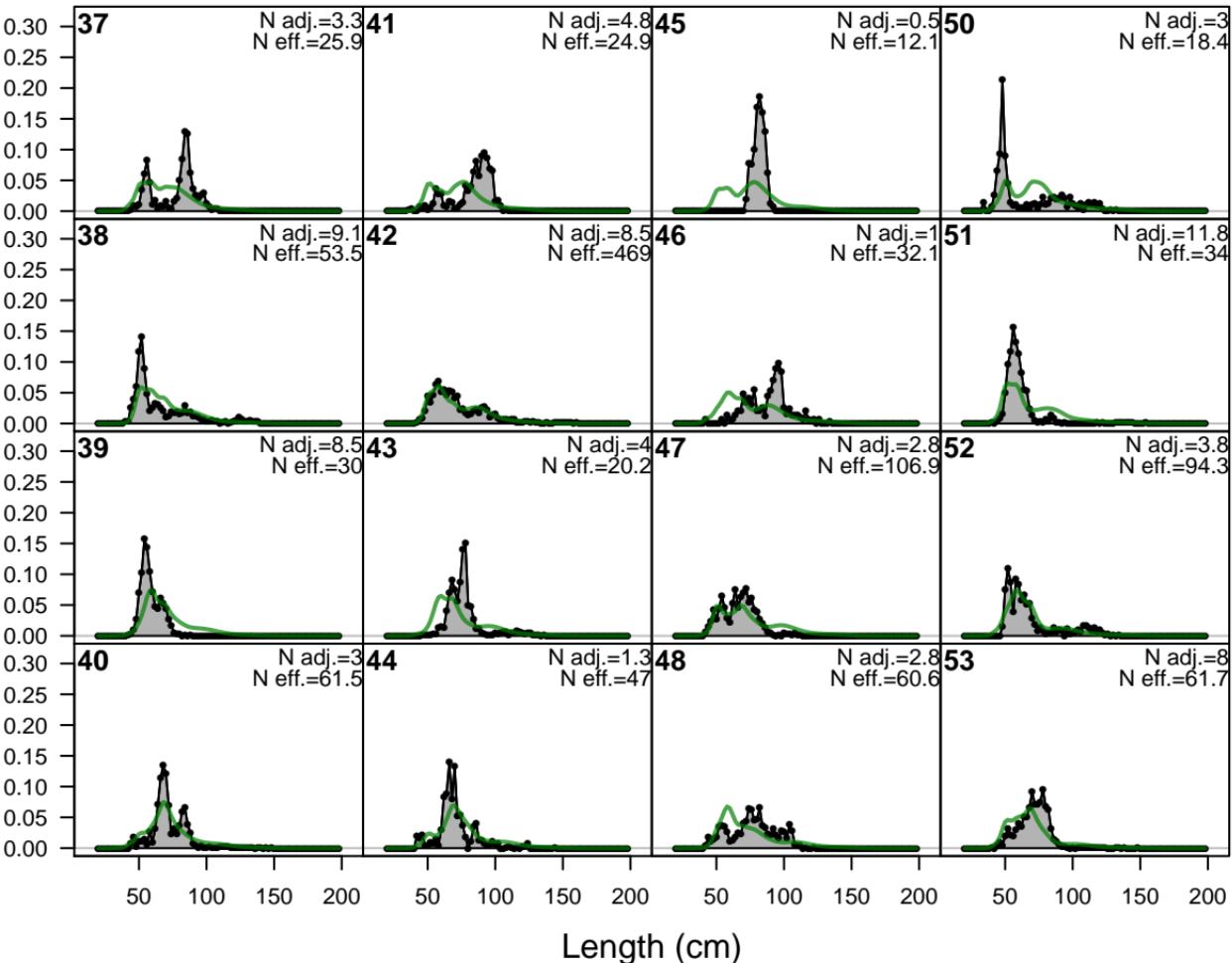




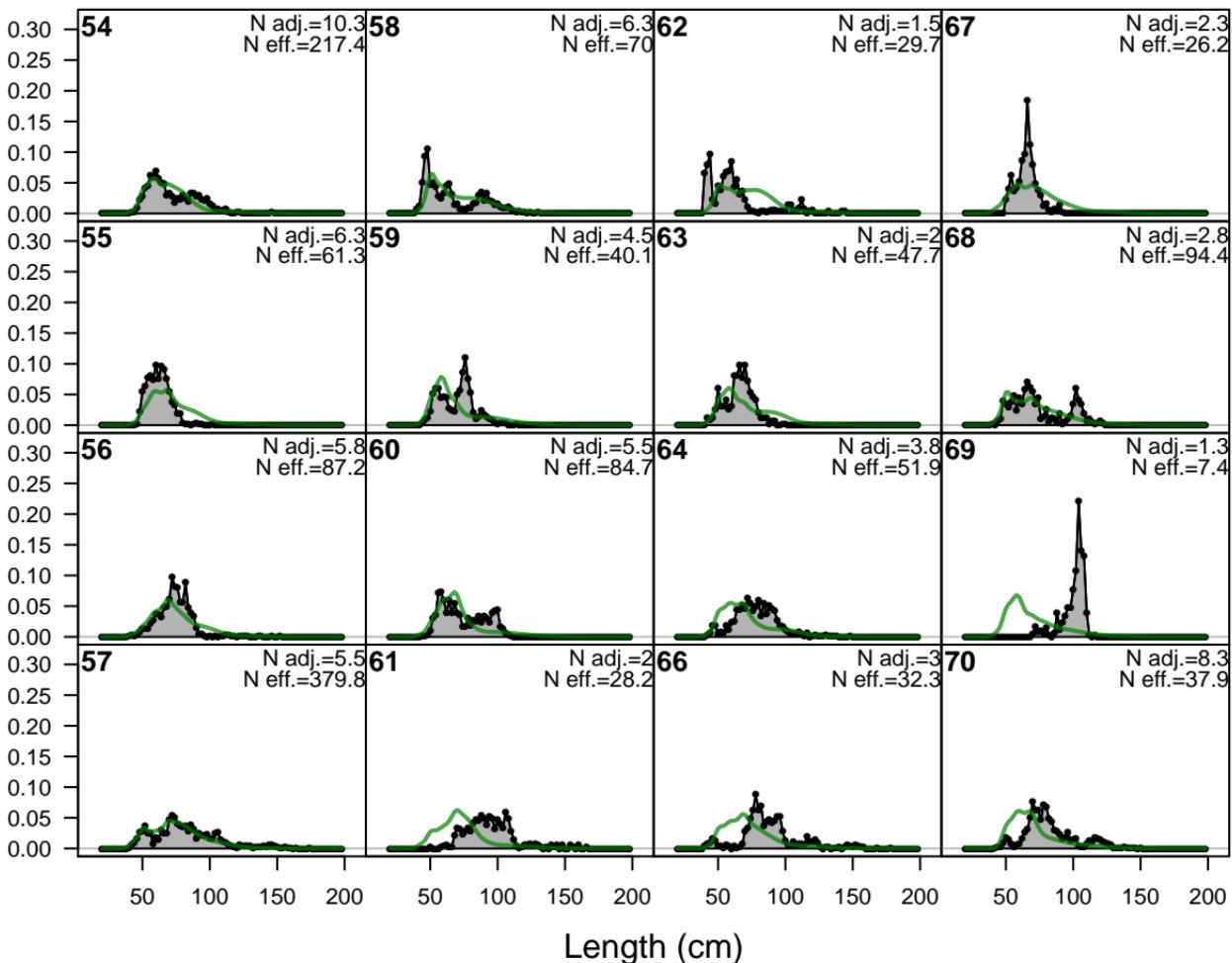
F10-OBJ_S_Q23 (whole catch)



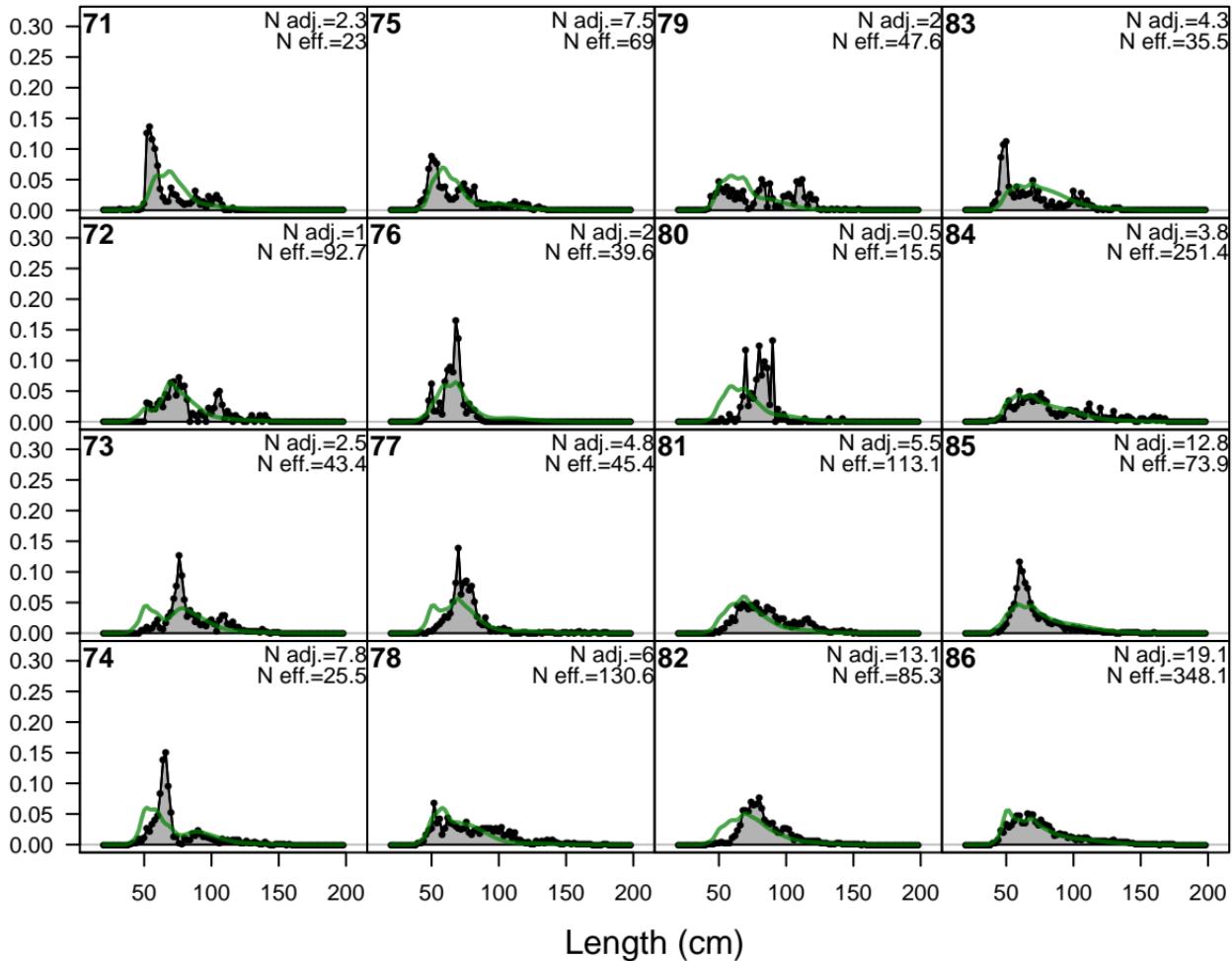
Proportion



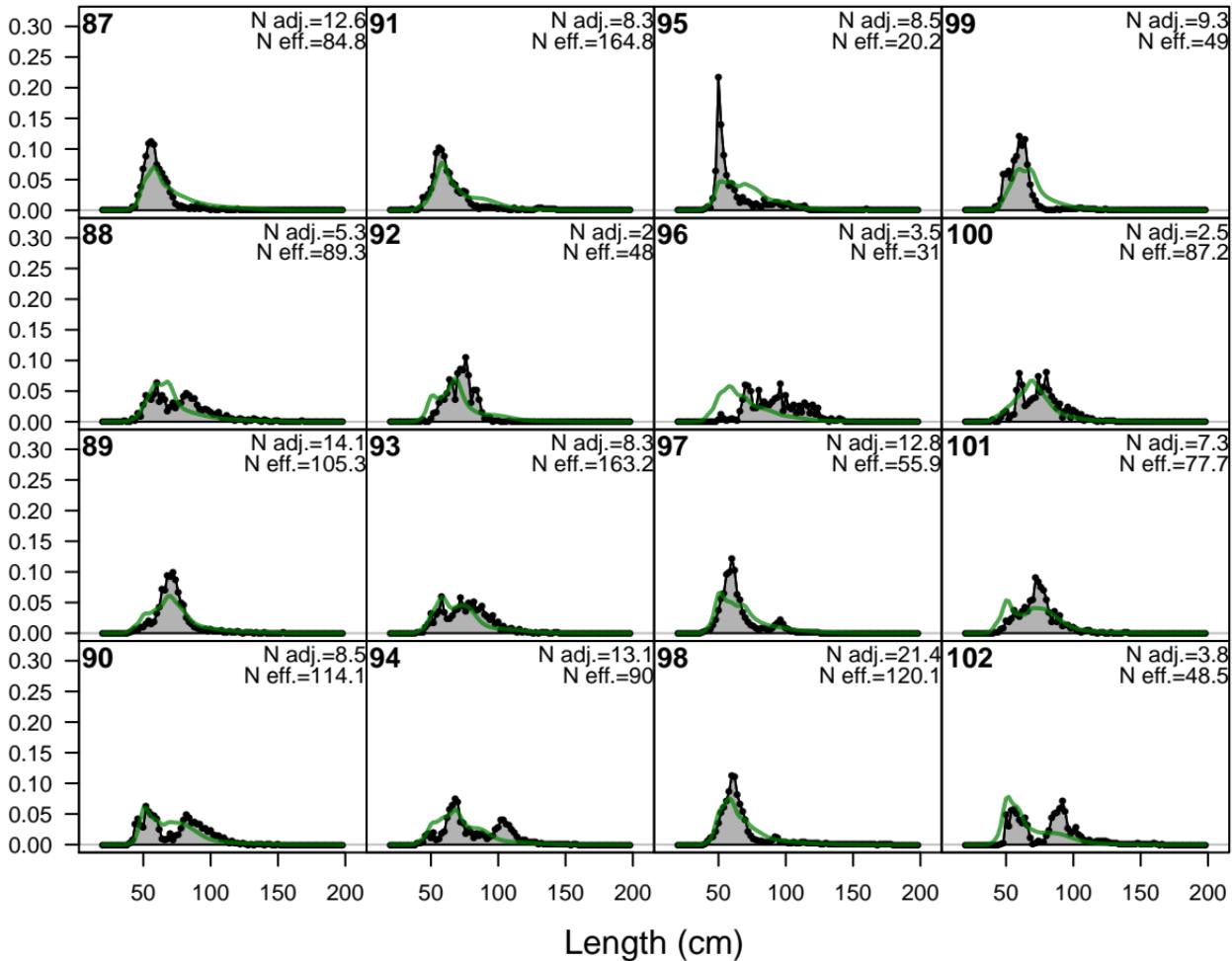
Proportion



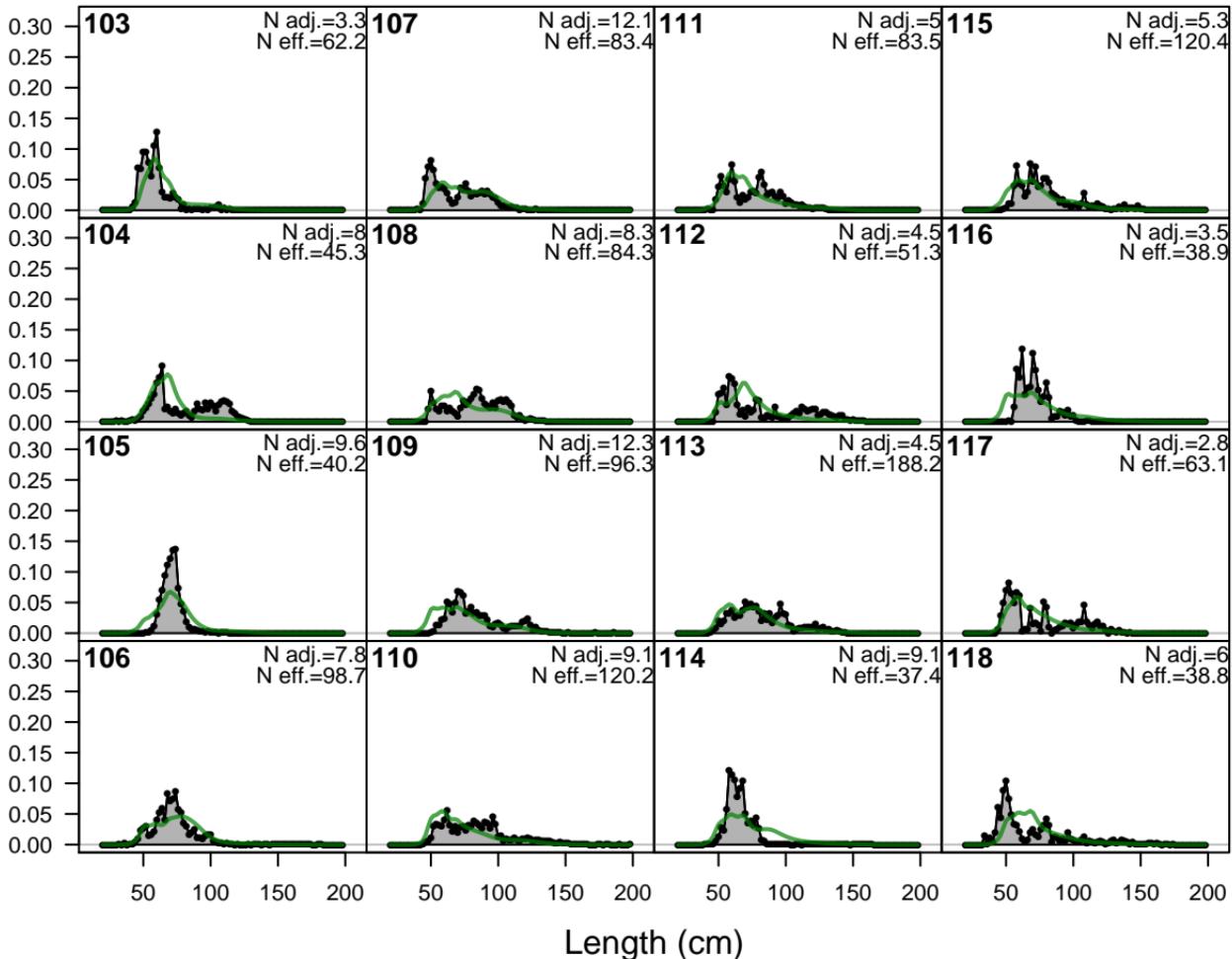
Proportion



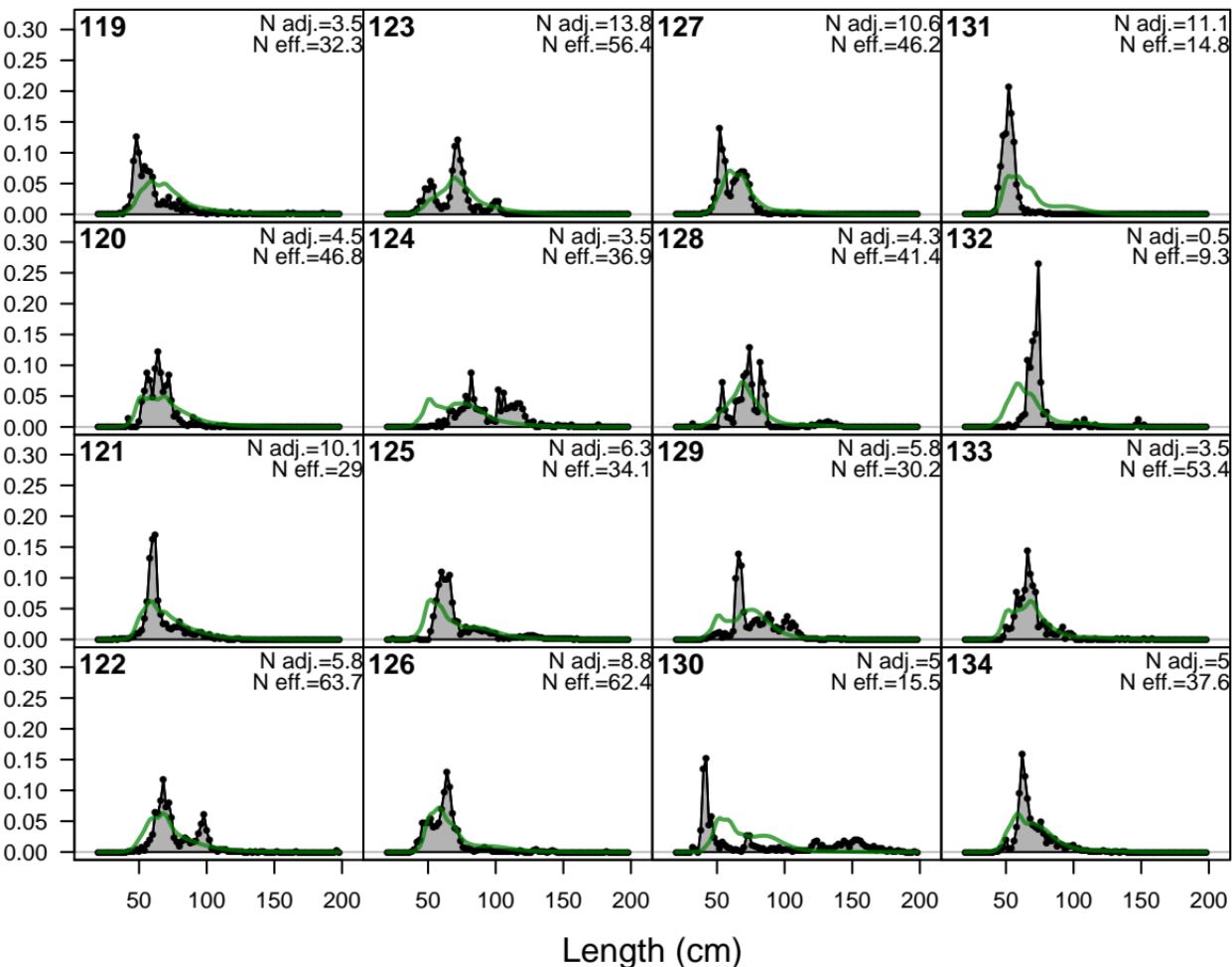
Proportion



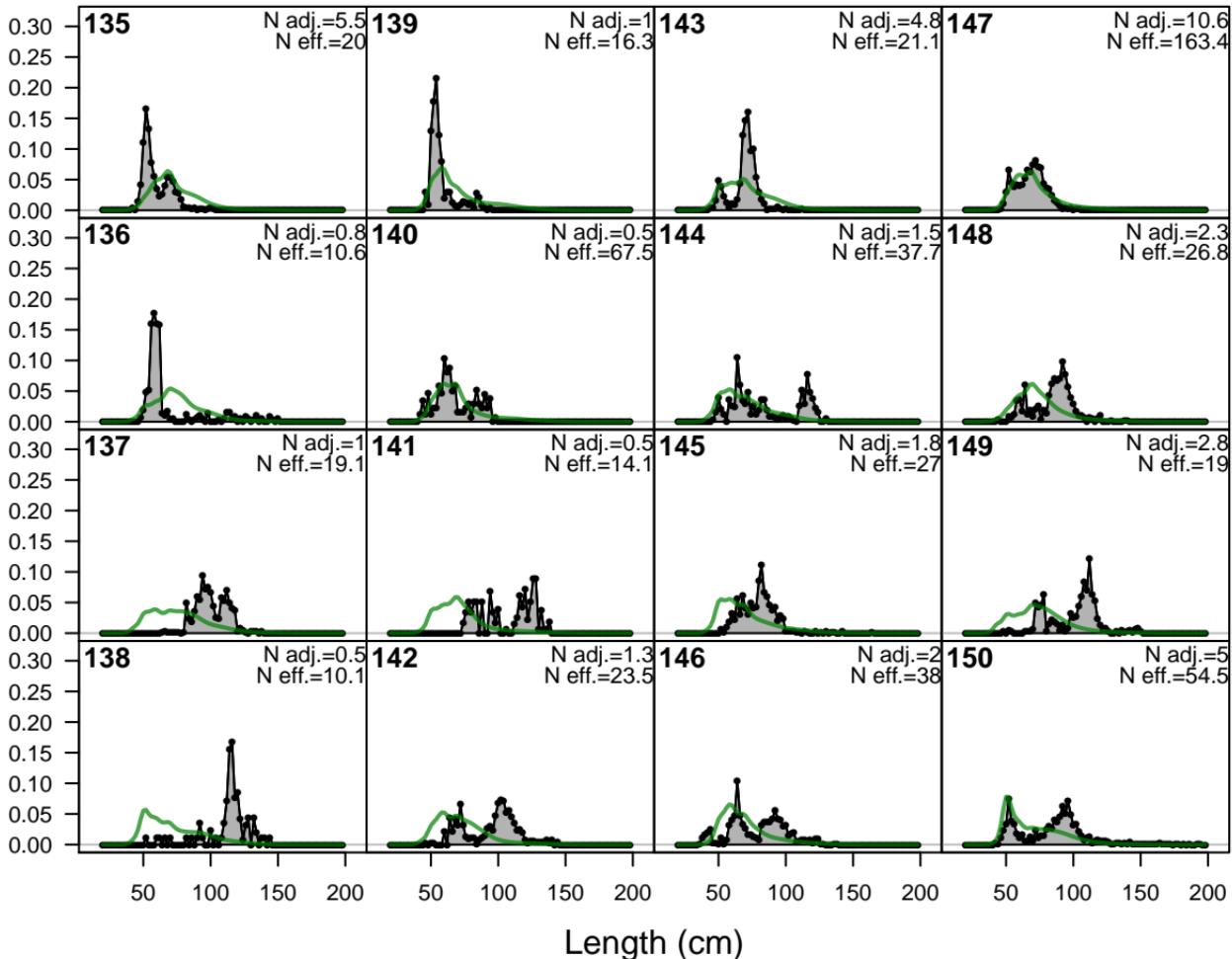
Proportion



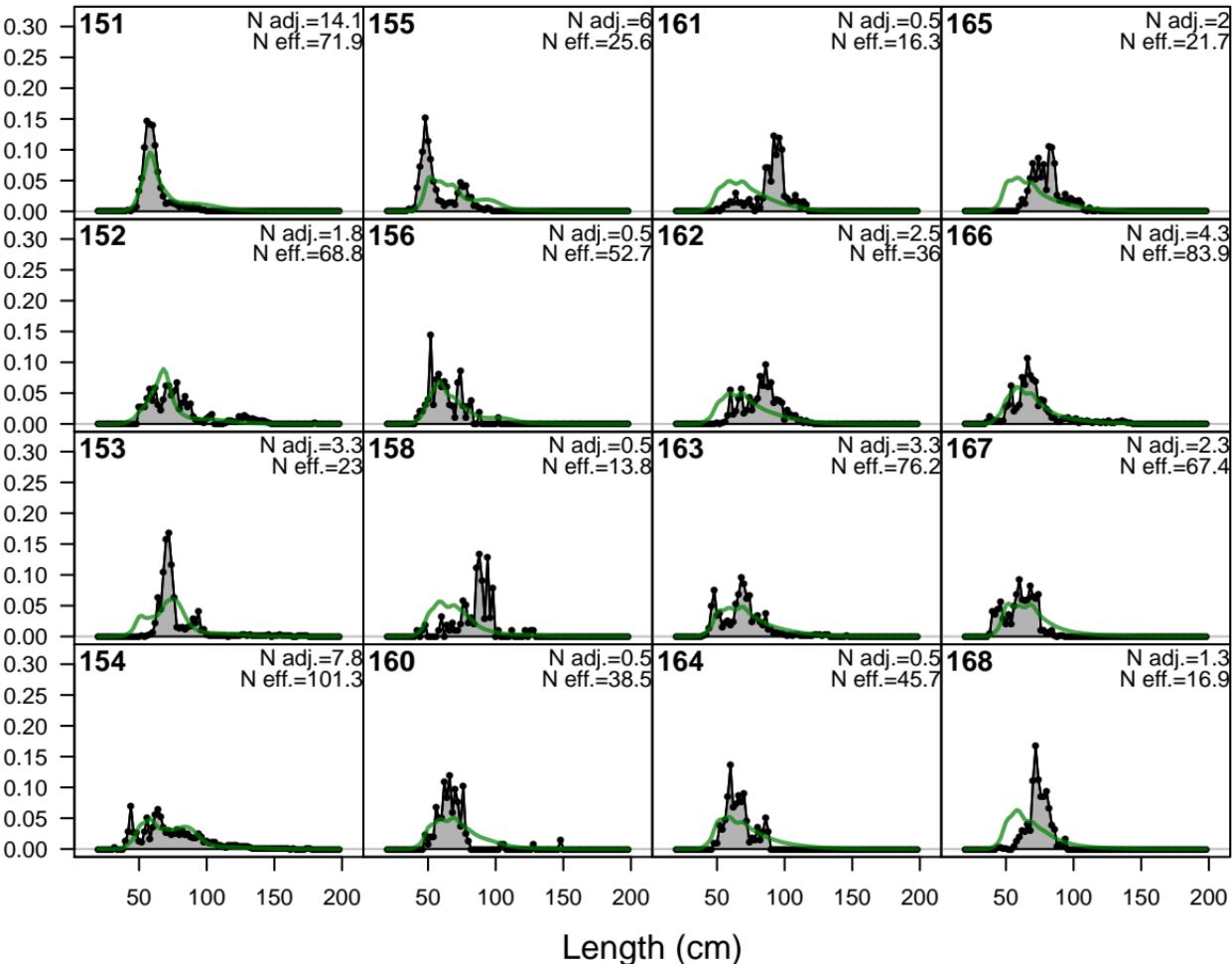
Proportion



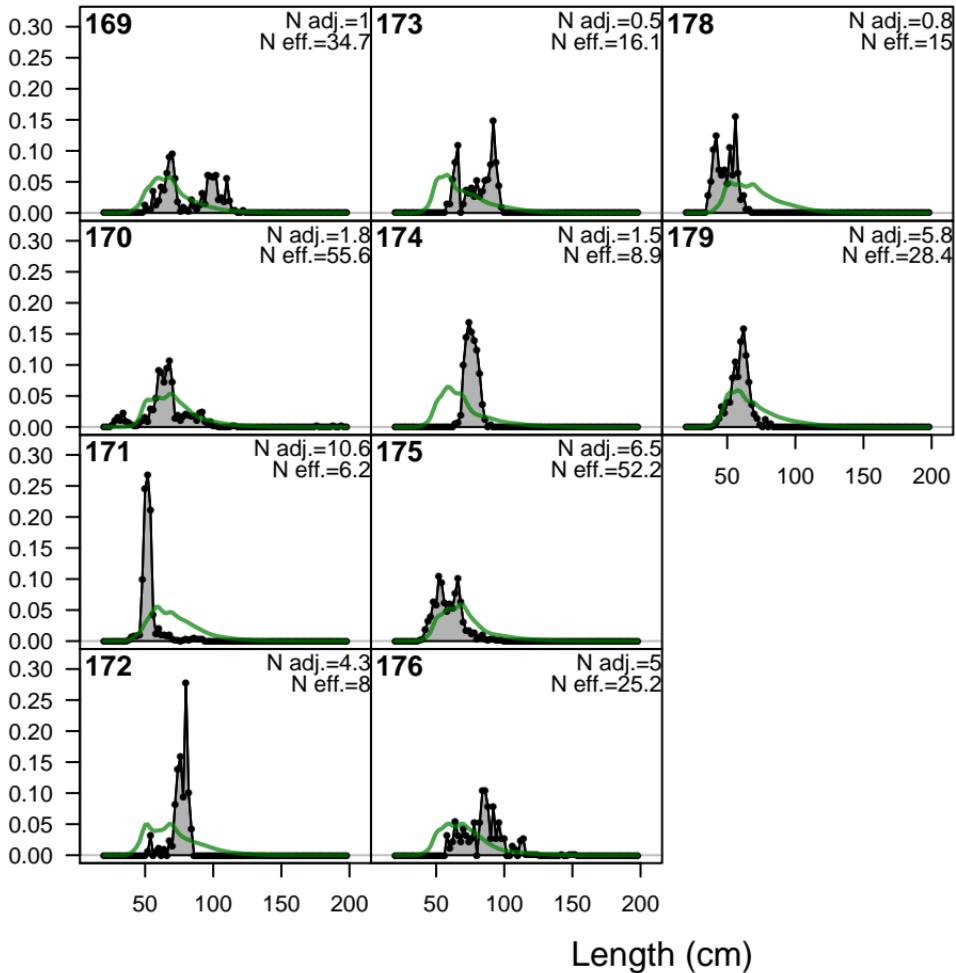
Proportion

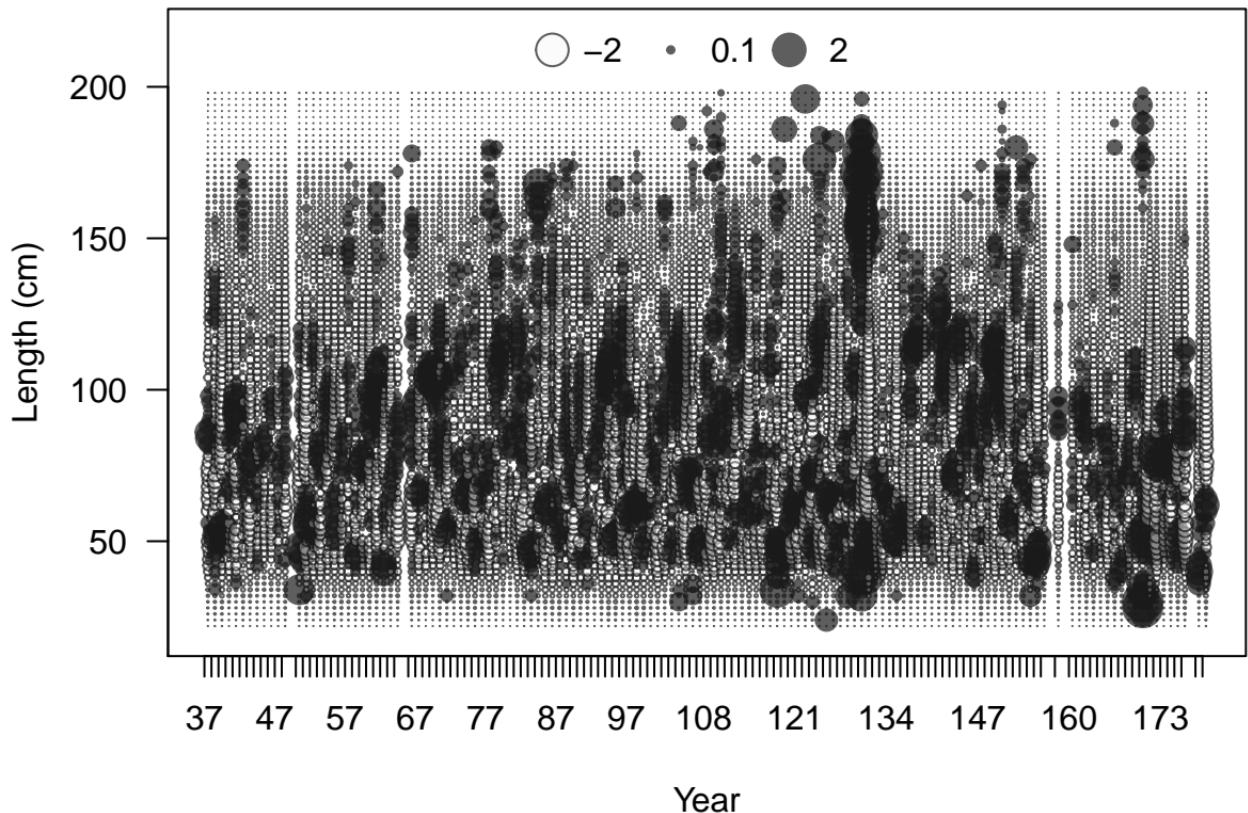


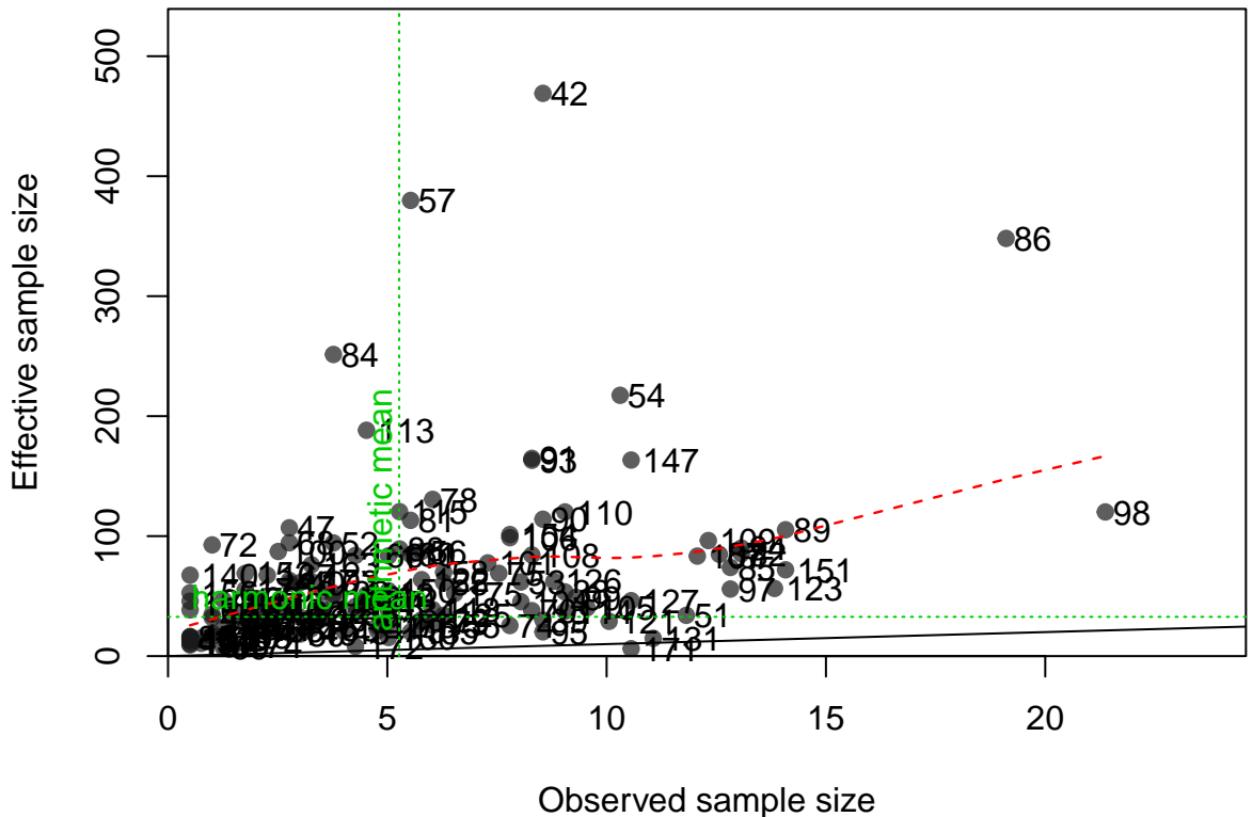
Proportion



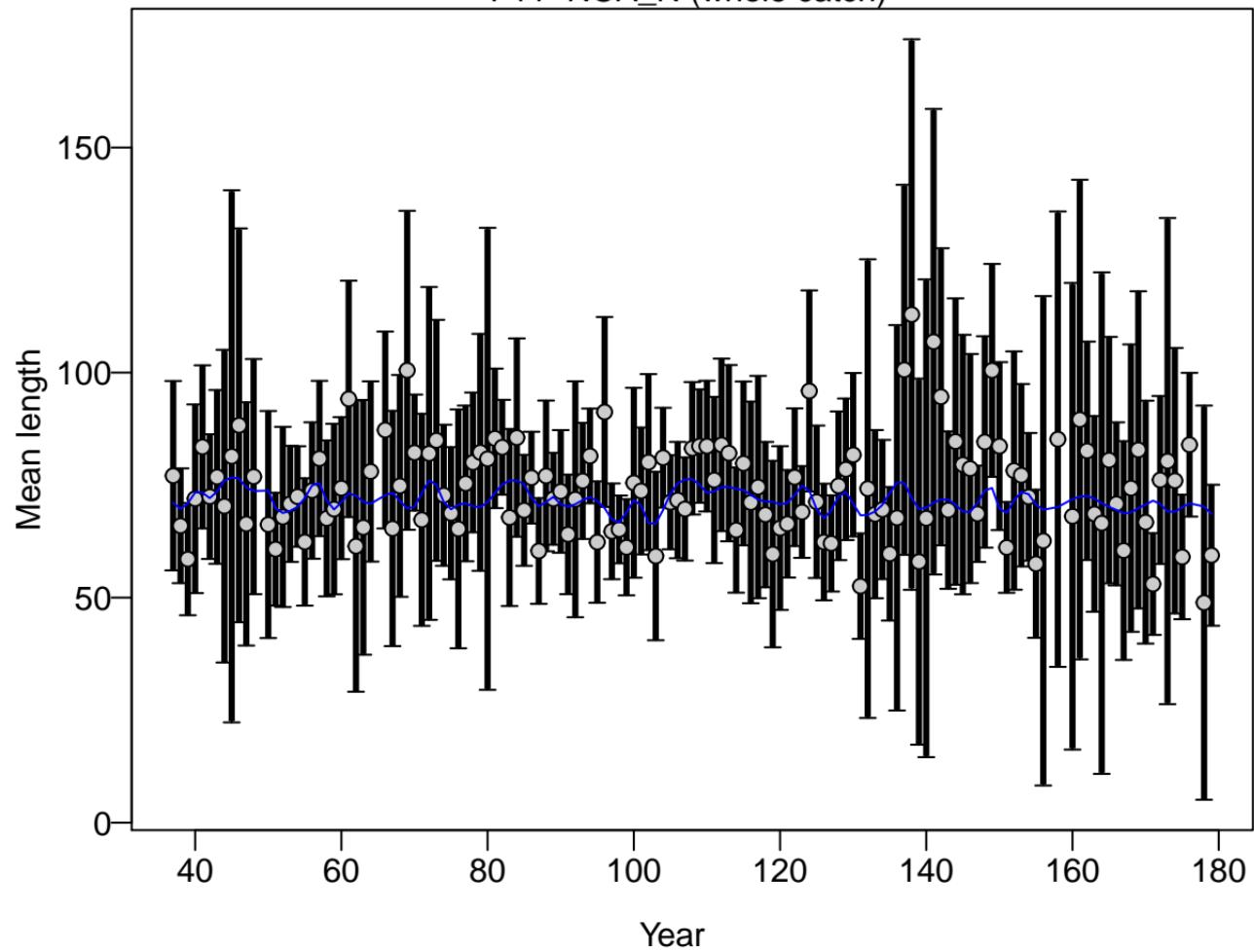
Proportion



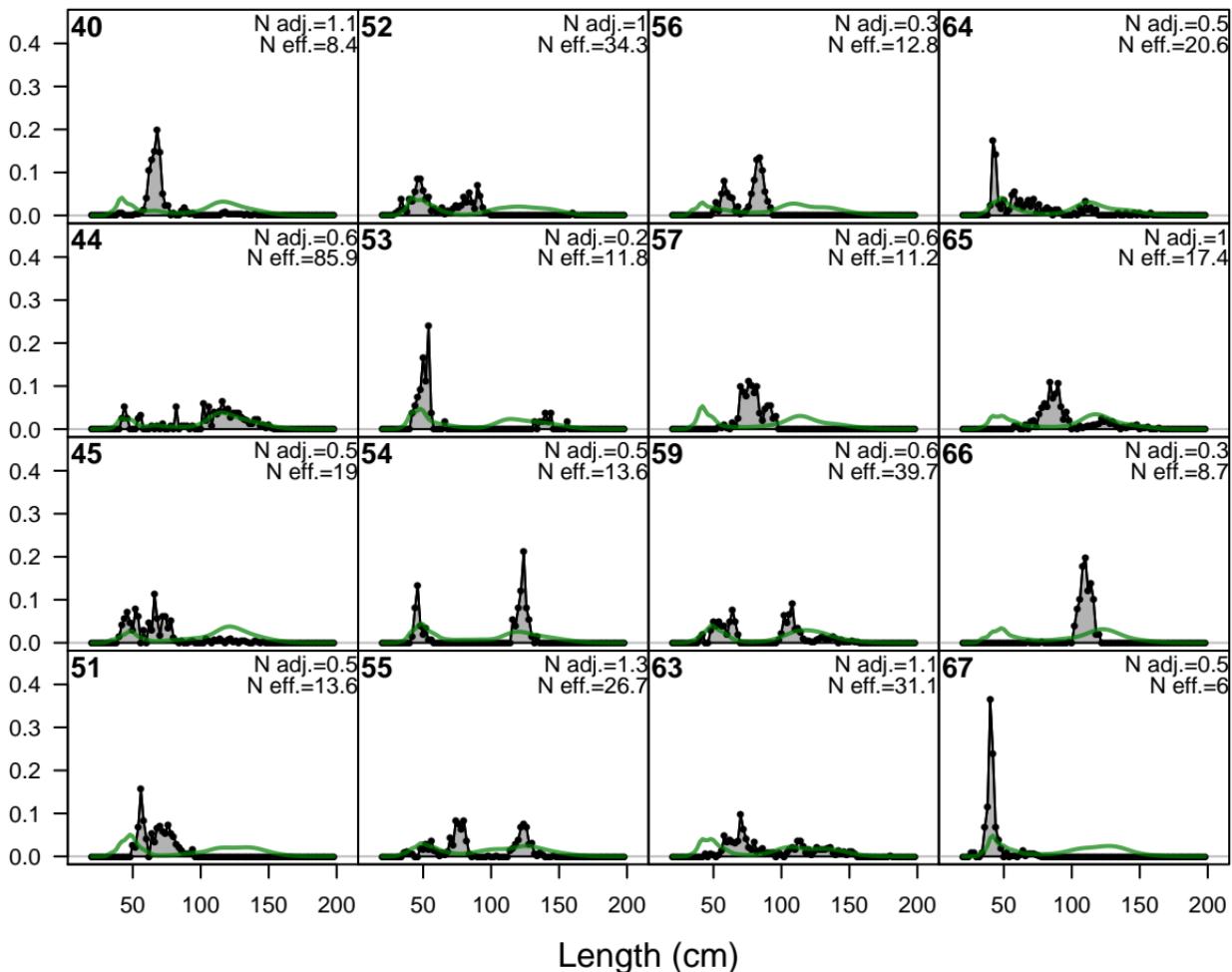




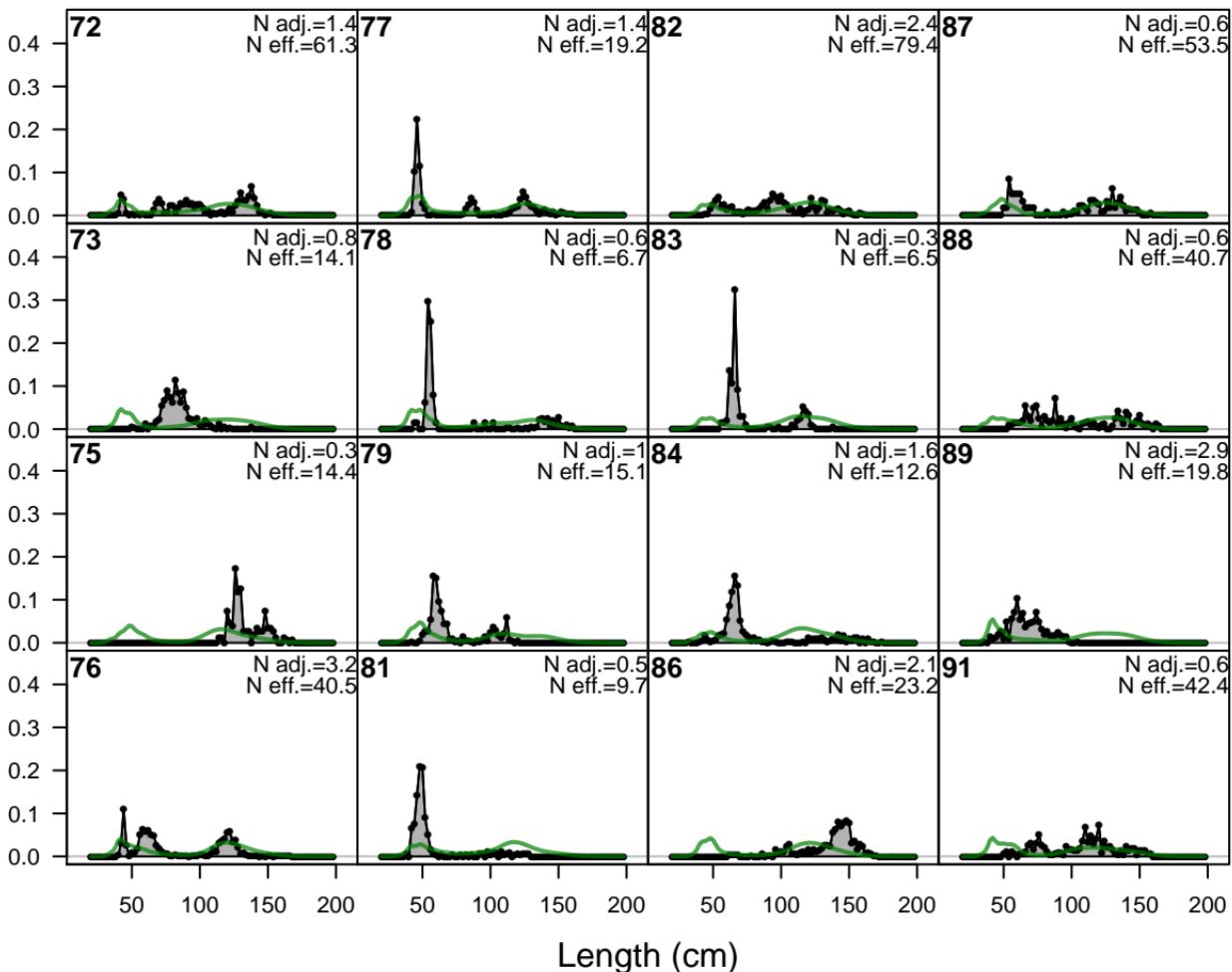
F11-NOA_N (whole catch)



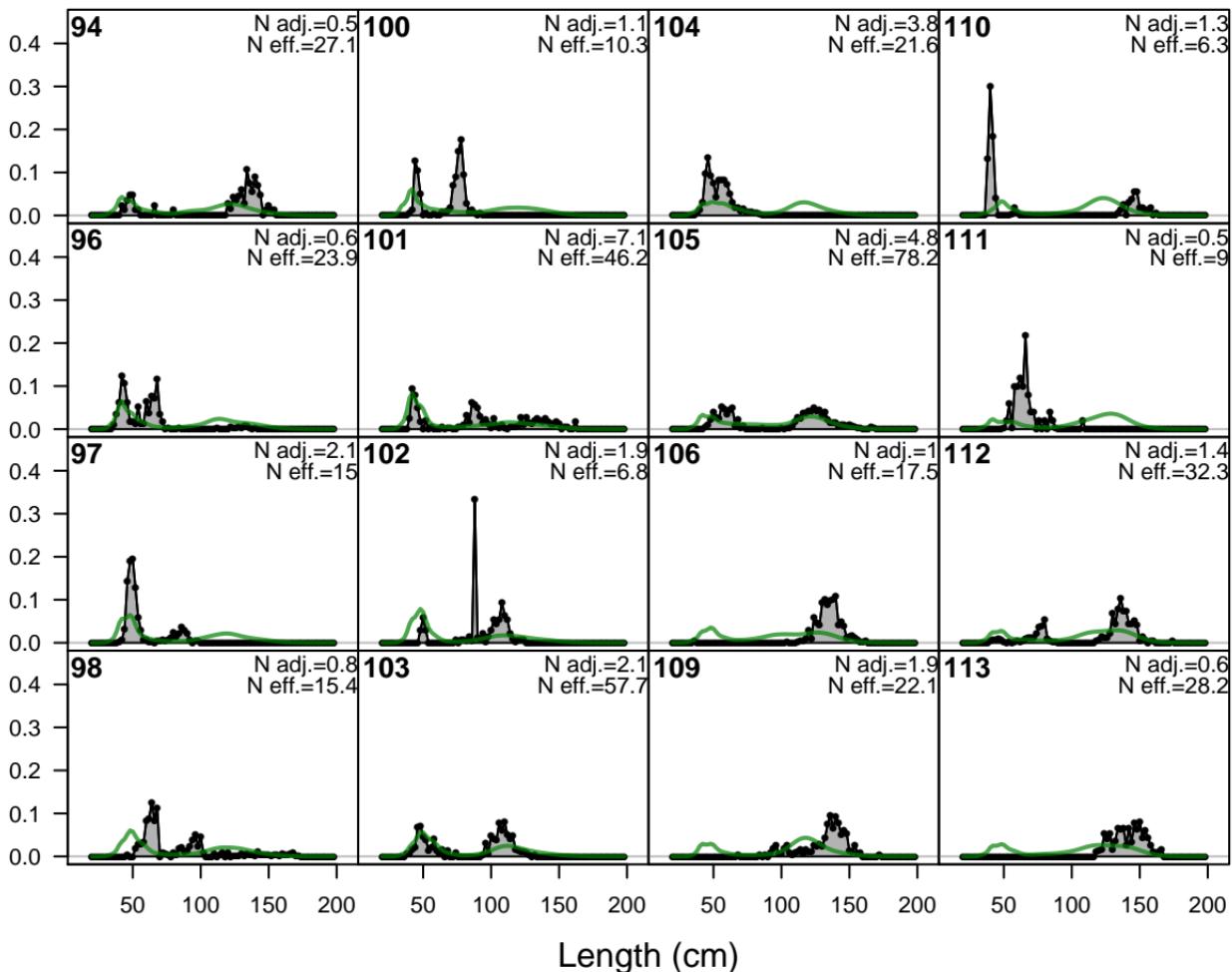
Proportion



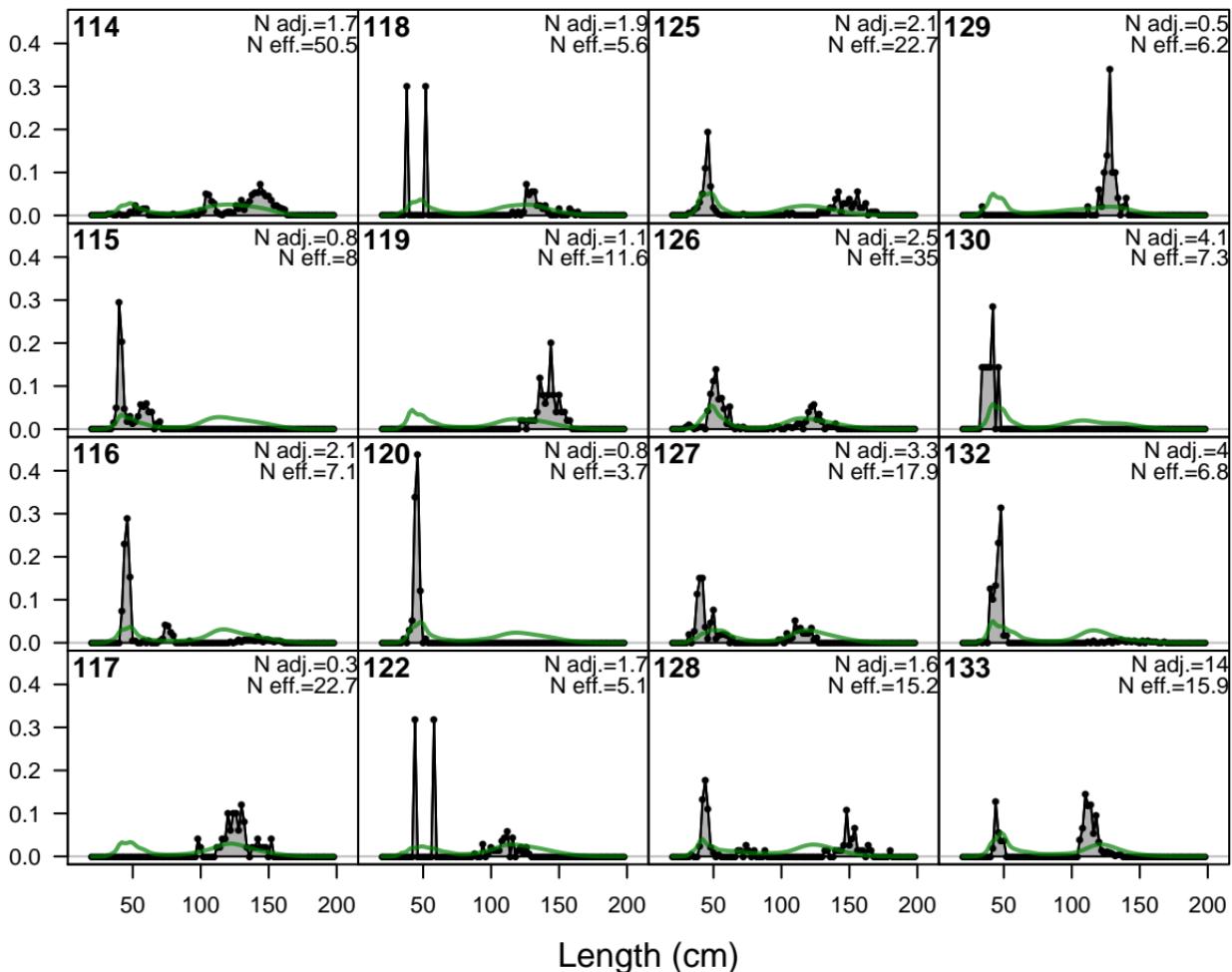
Proportion



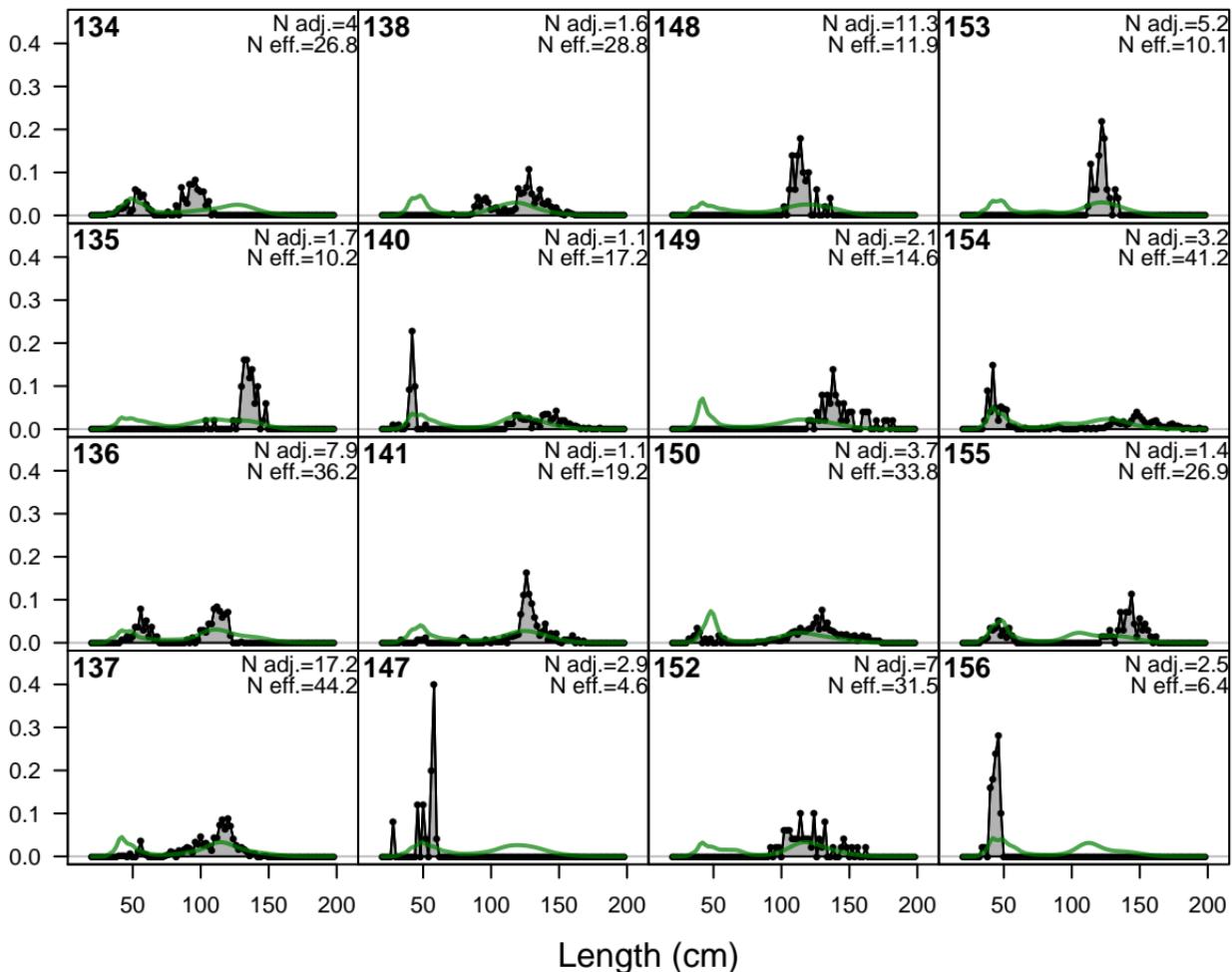
Proportion



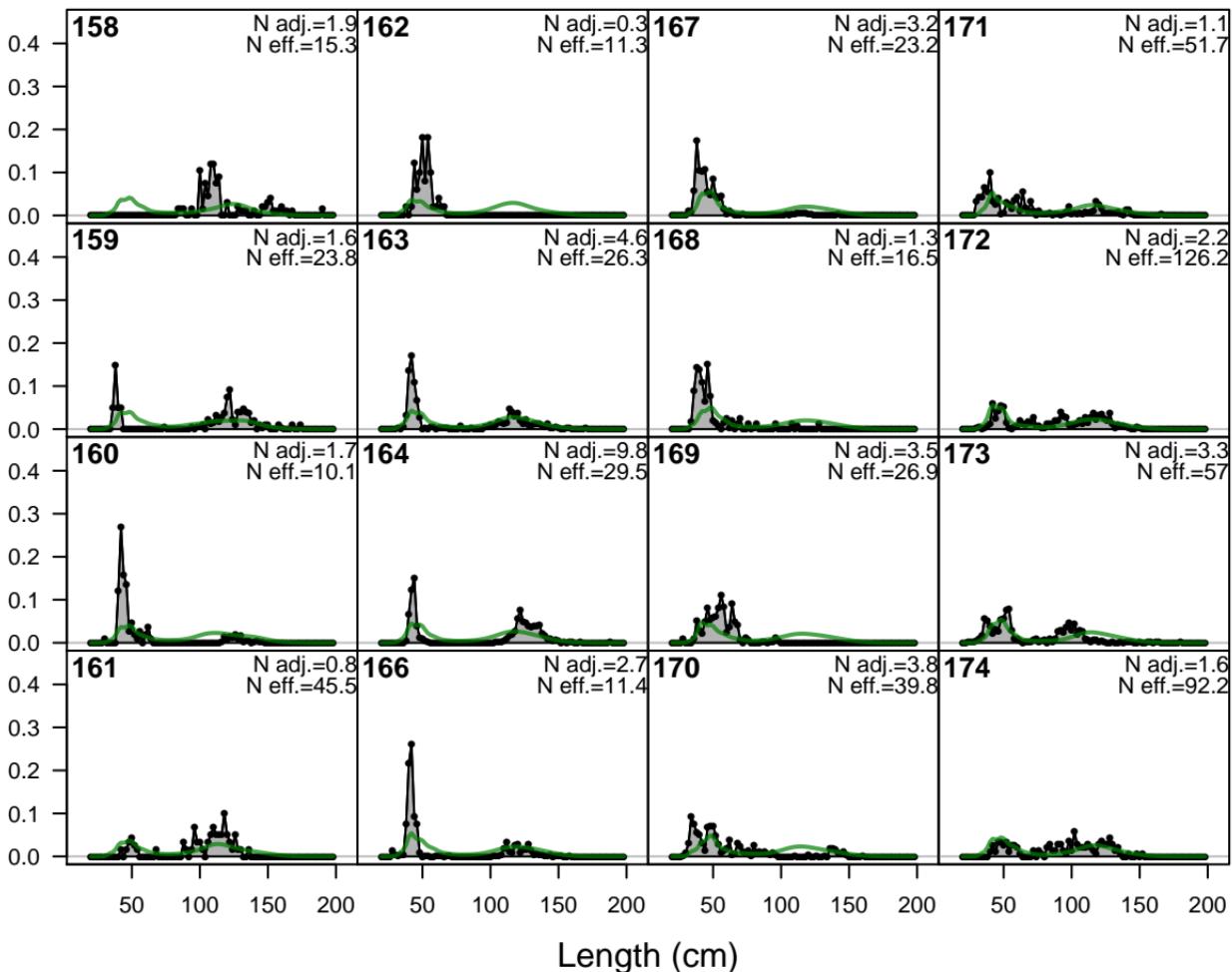
Proportion



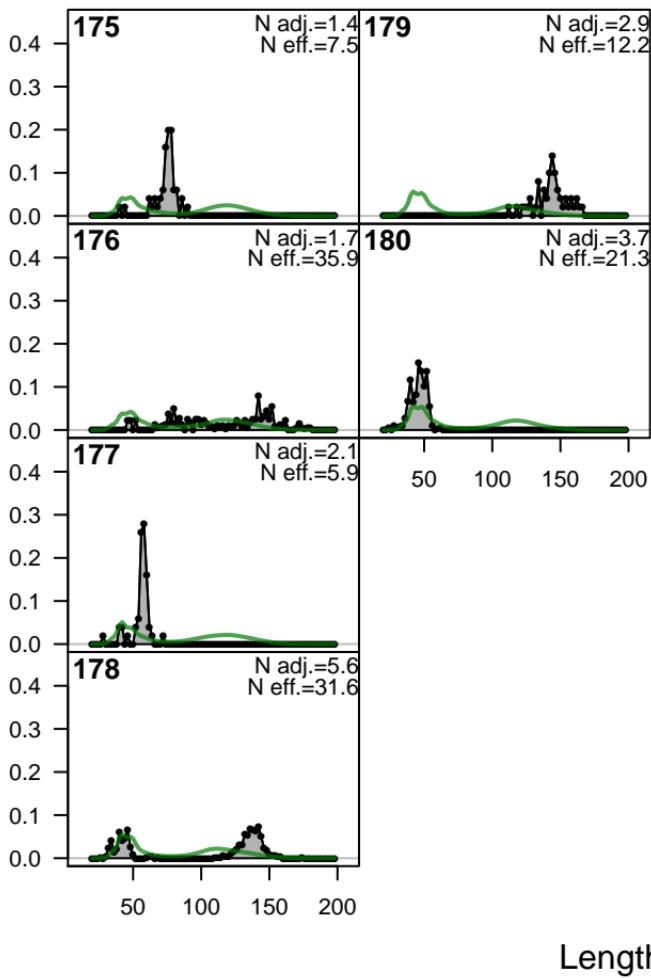
Proportion

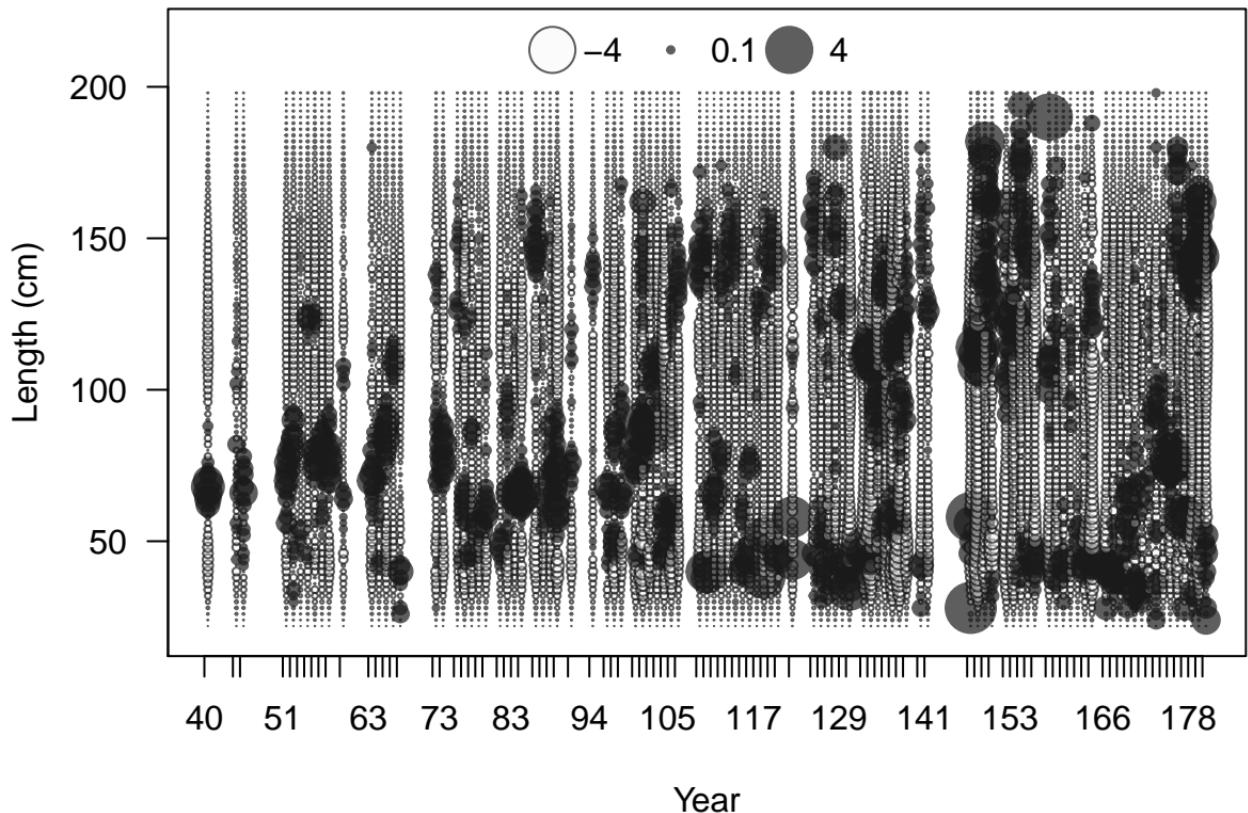


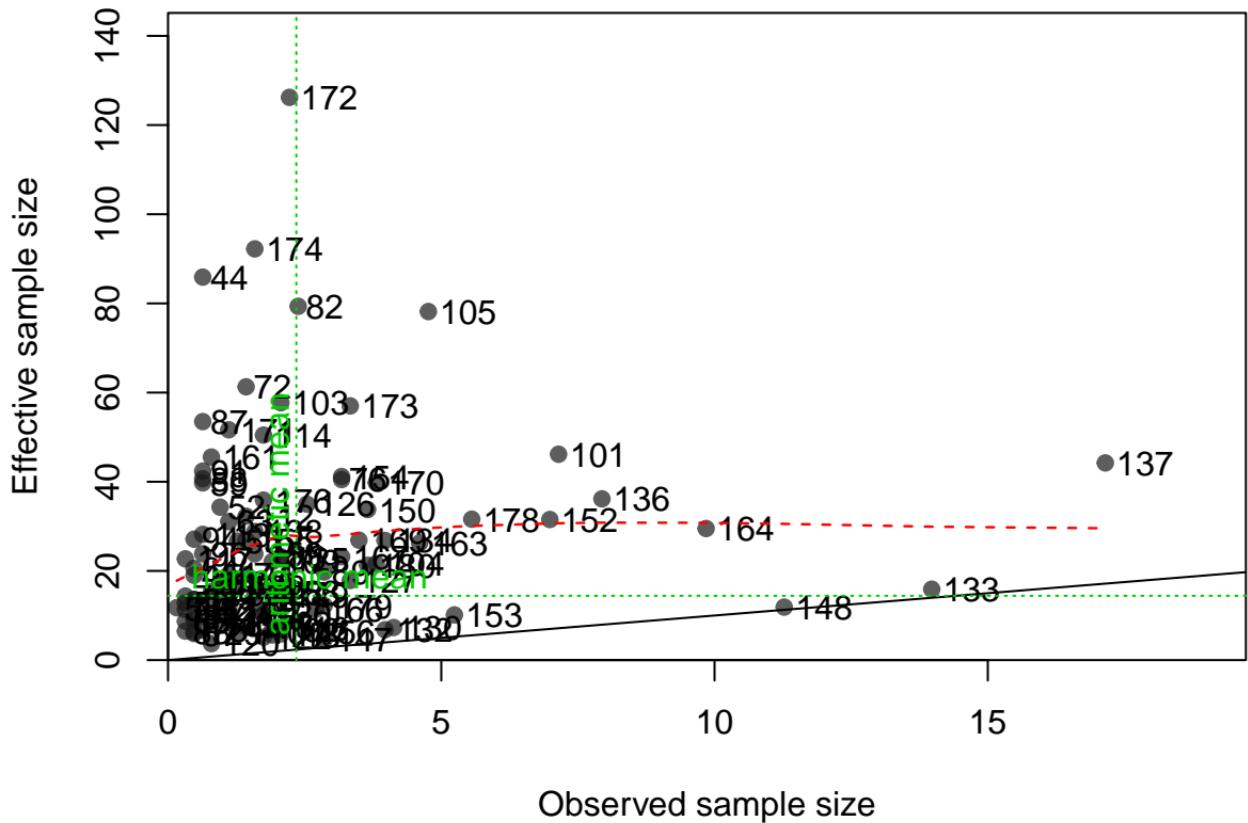
Proportion



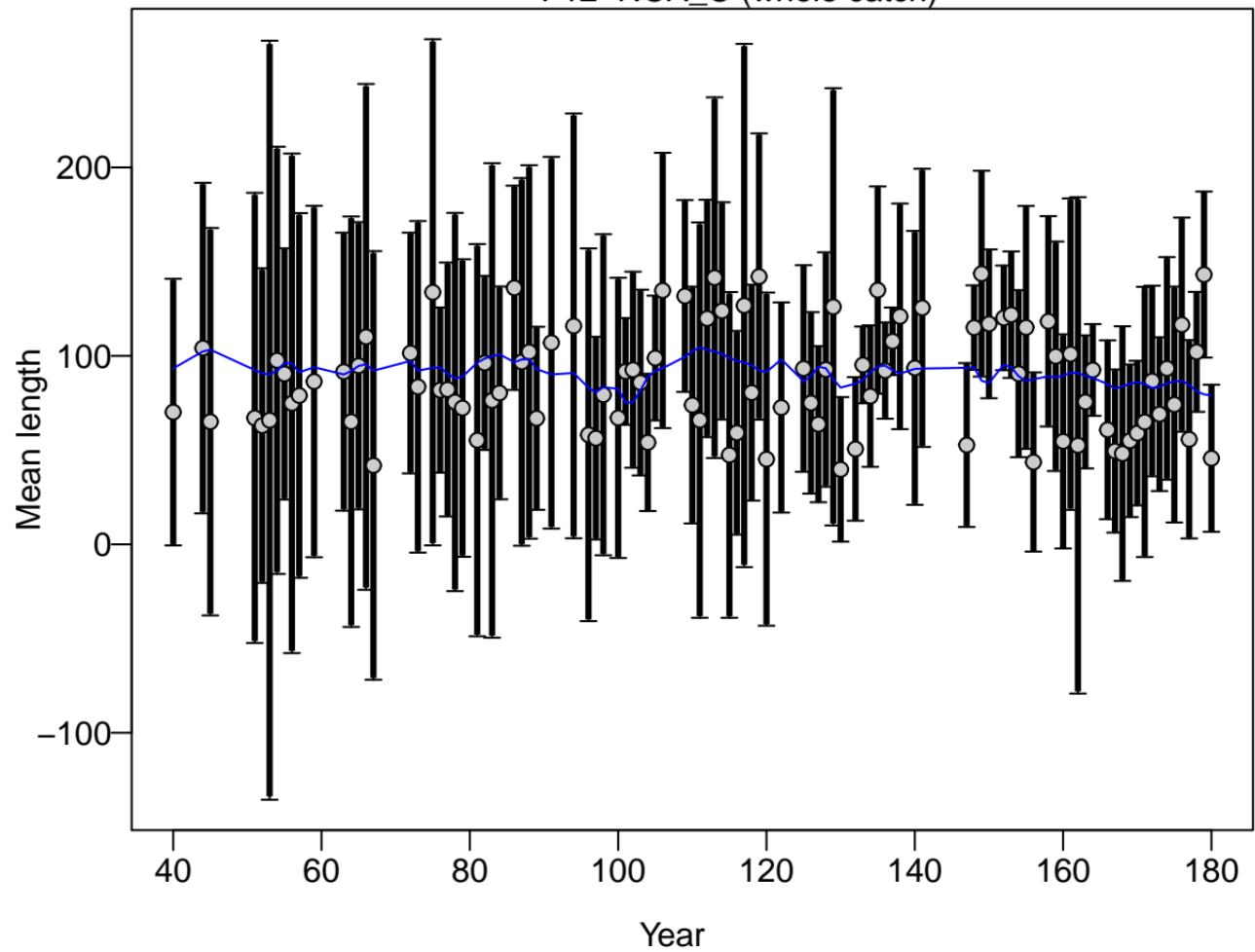
Proportion



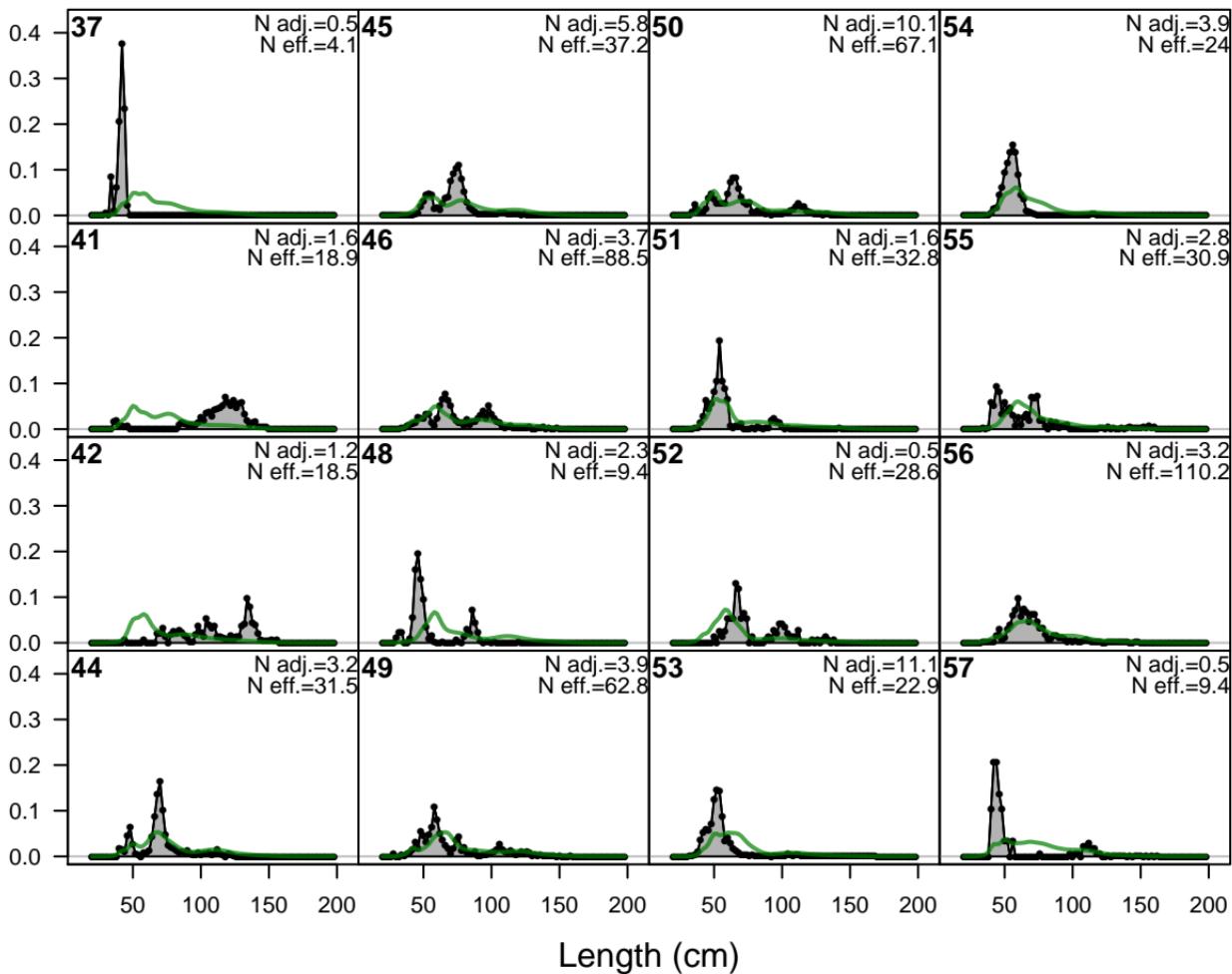




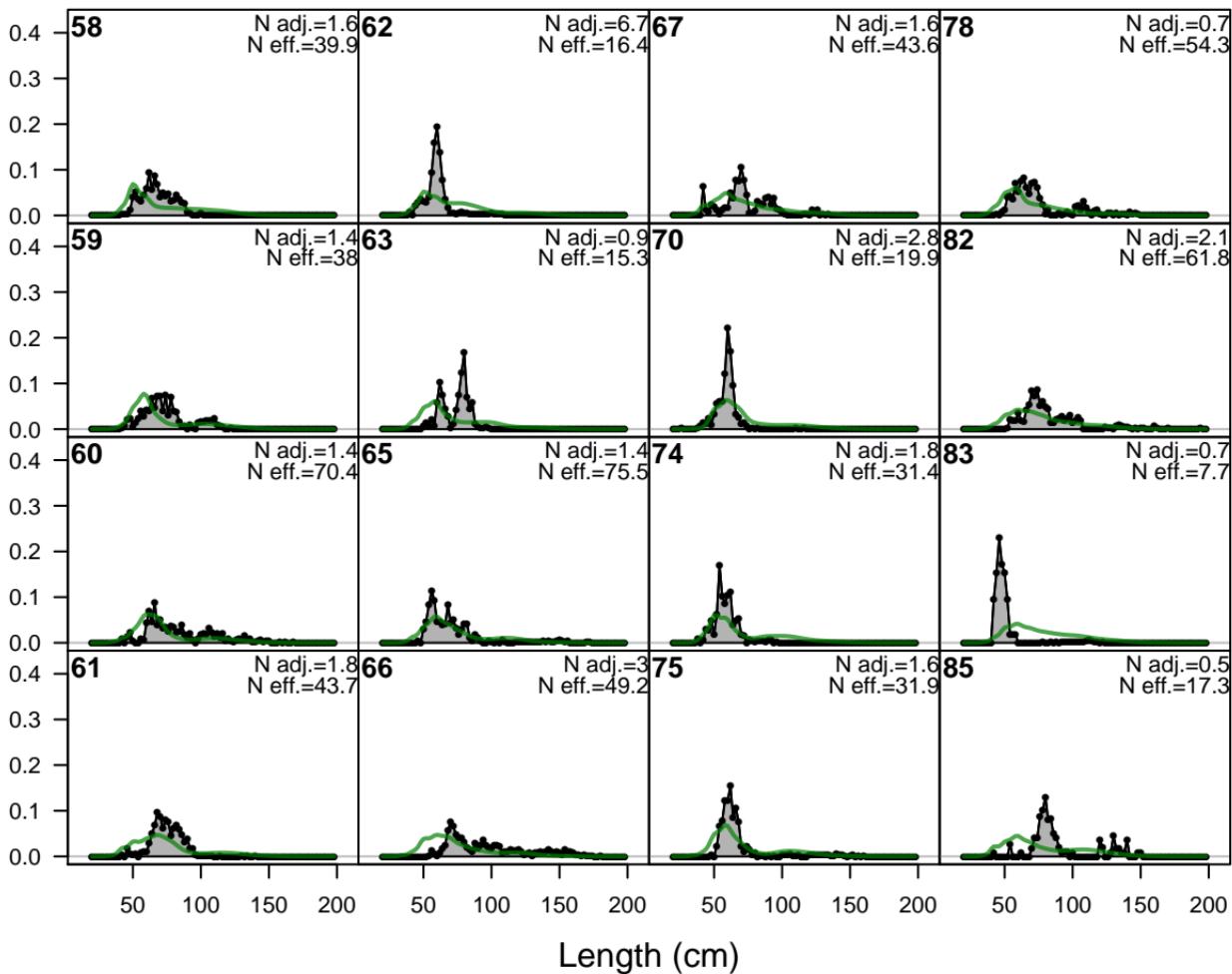
F12-NOA_C (whole catch)



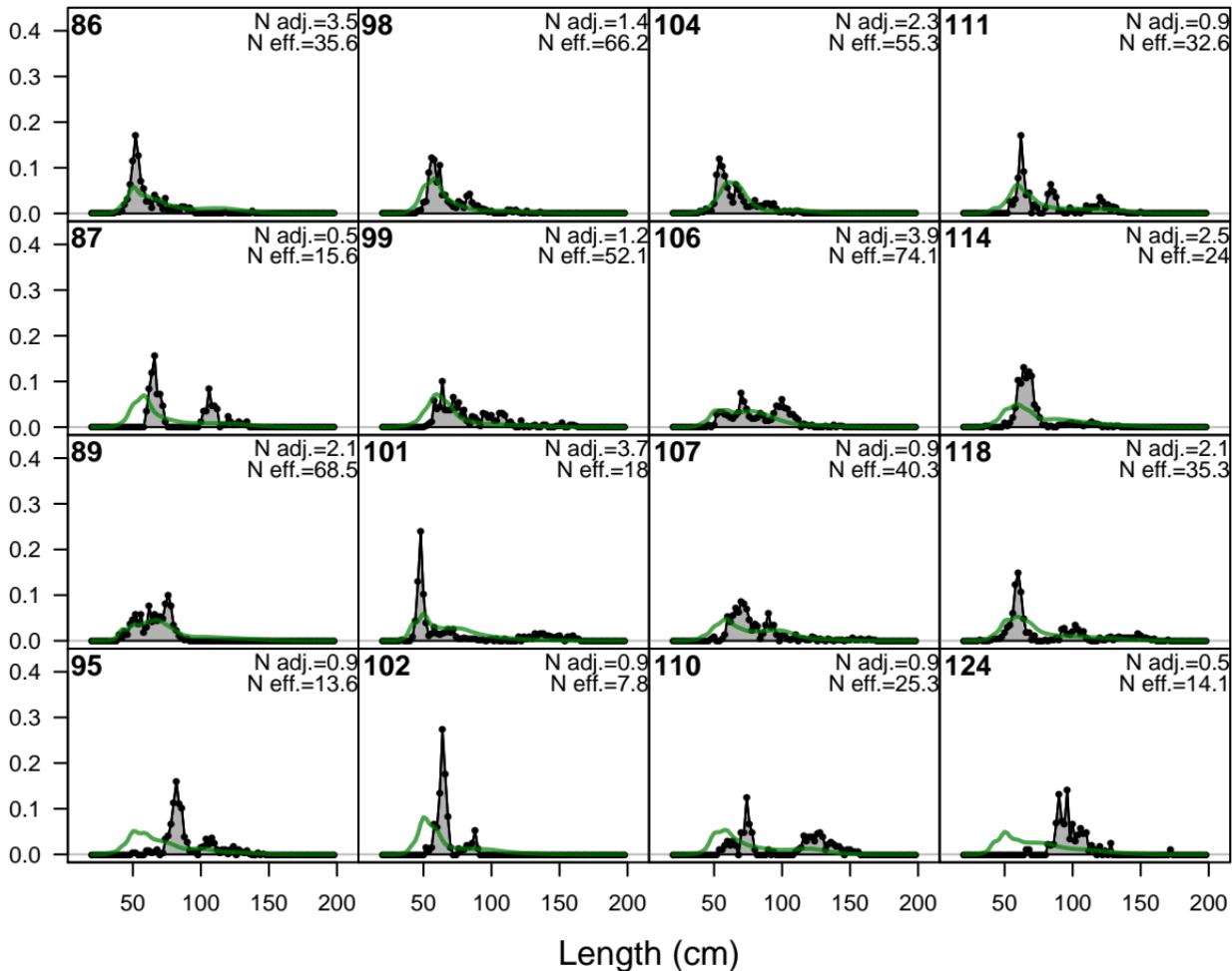
Proportion



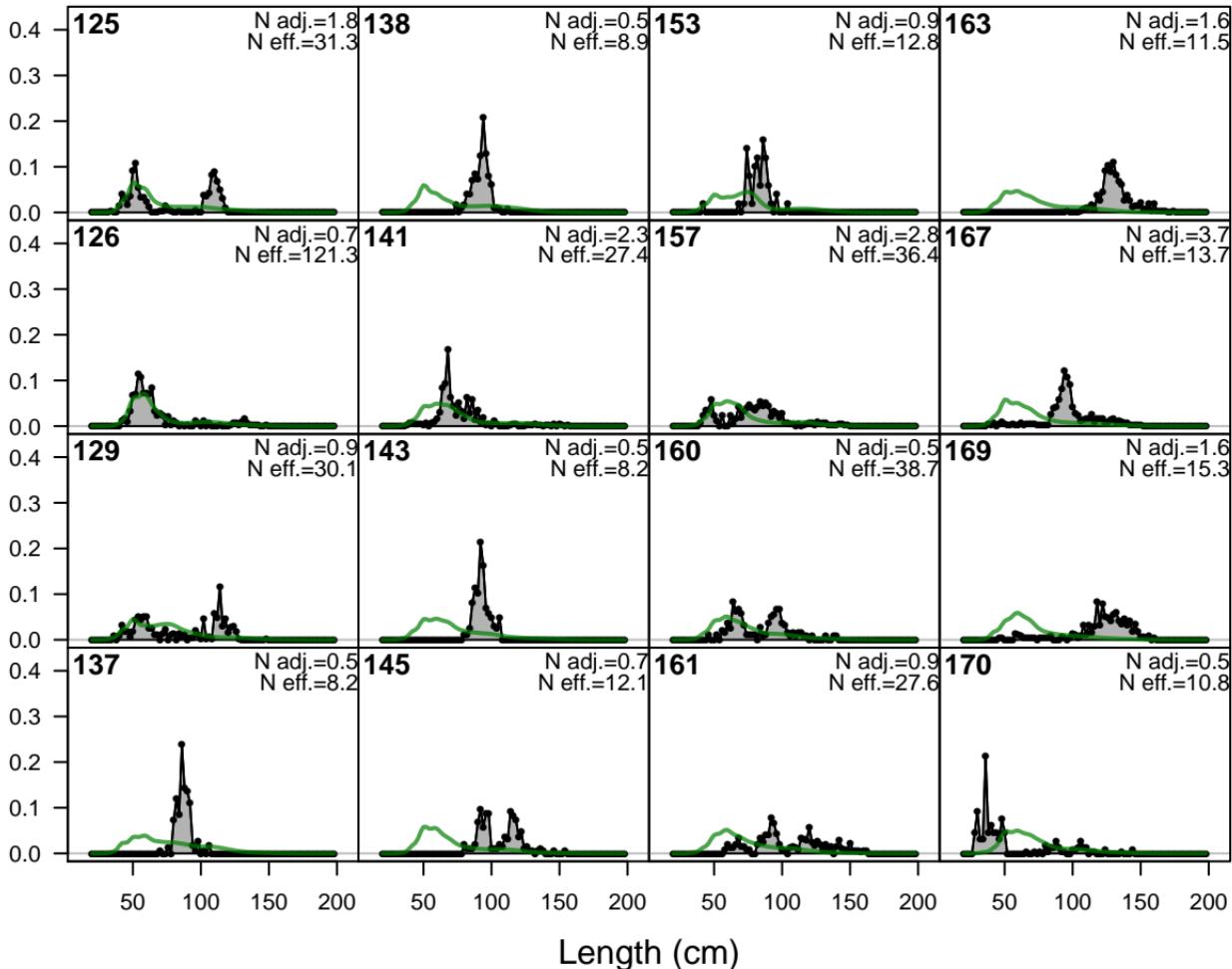
Proportion

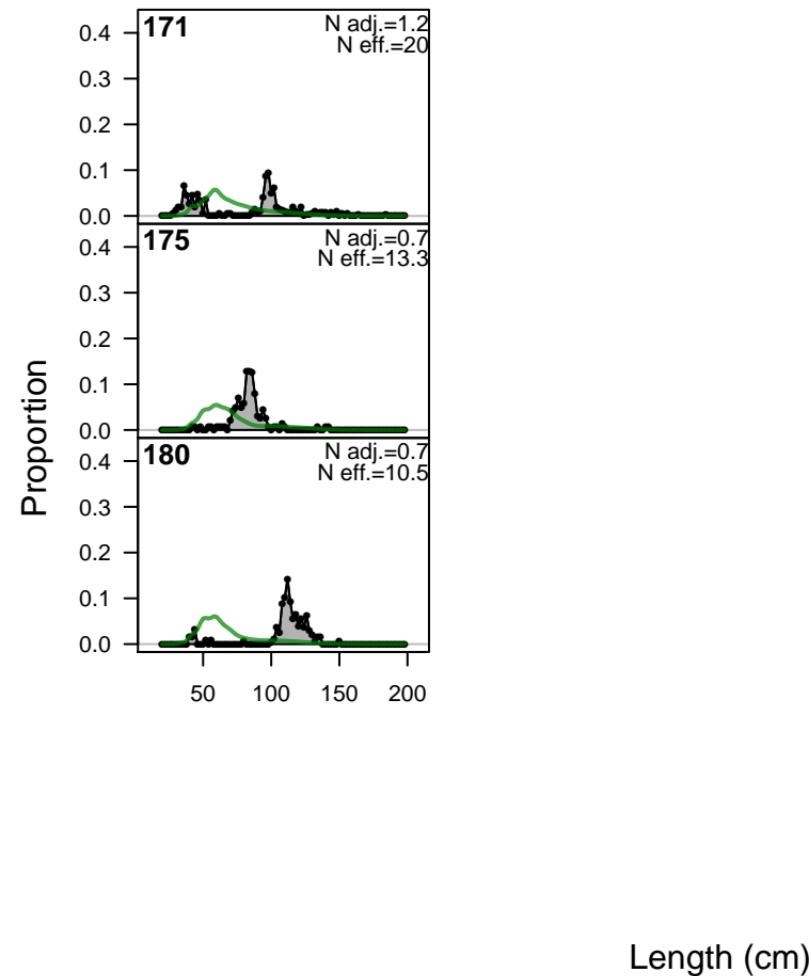


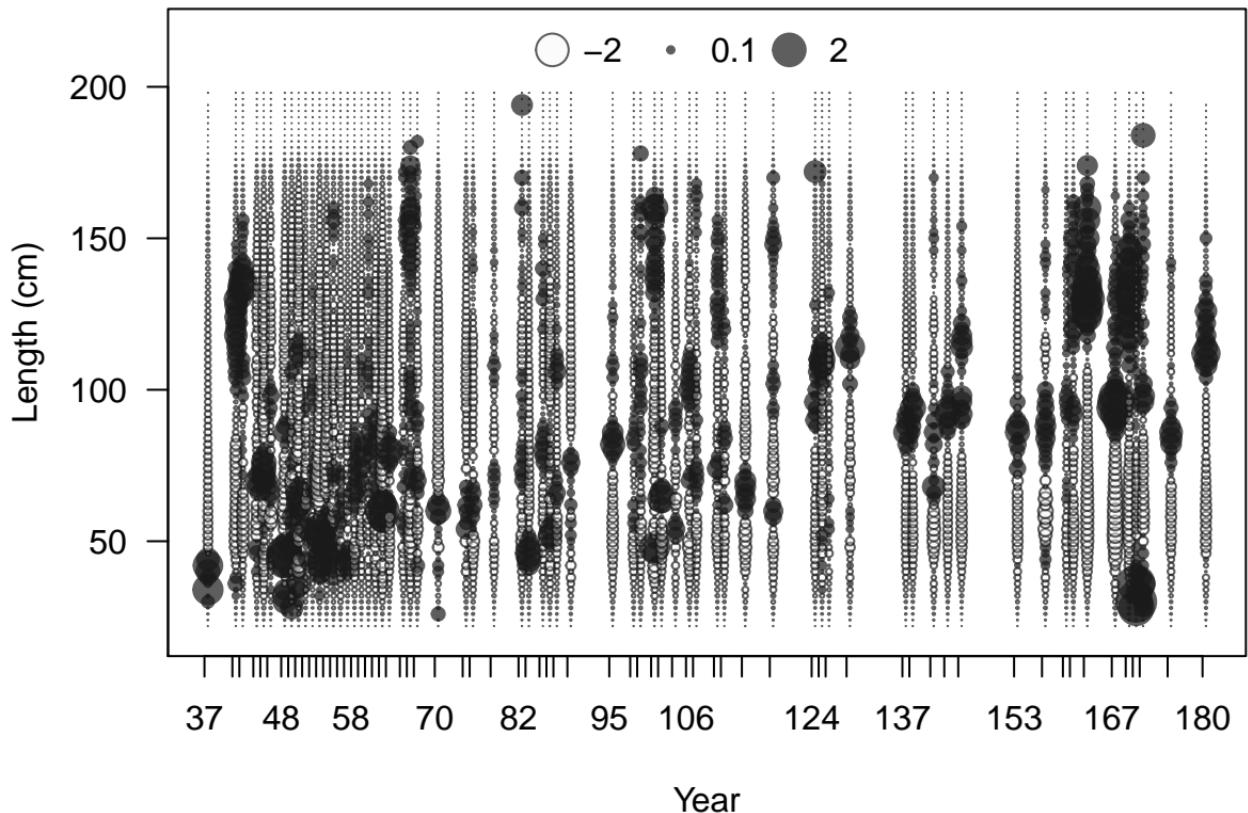
Proportion

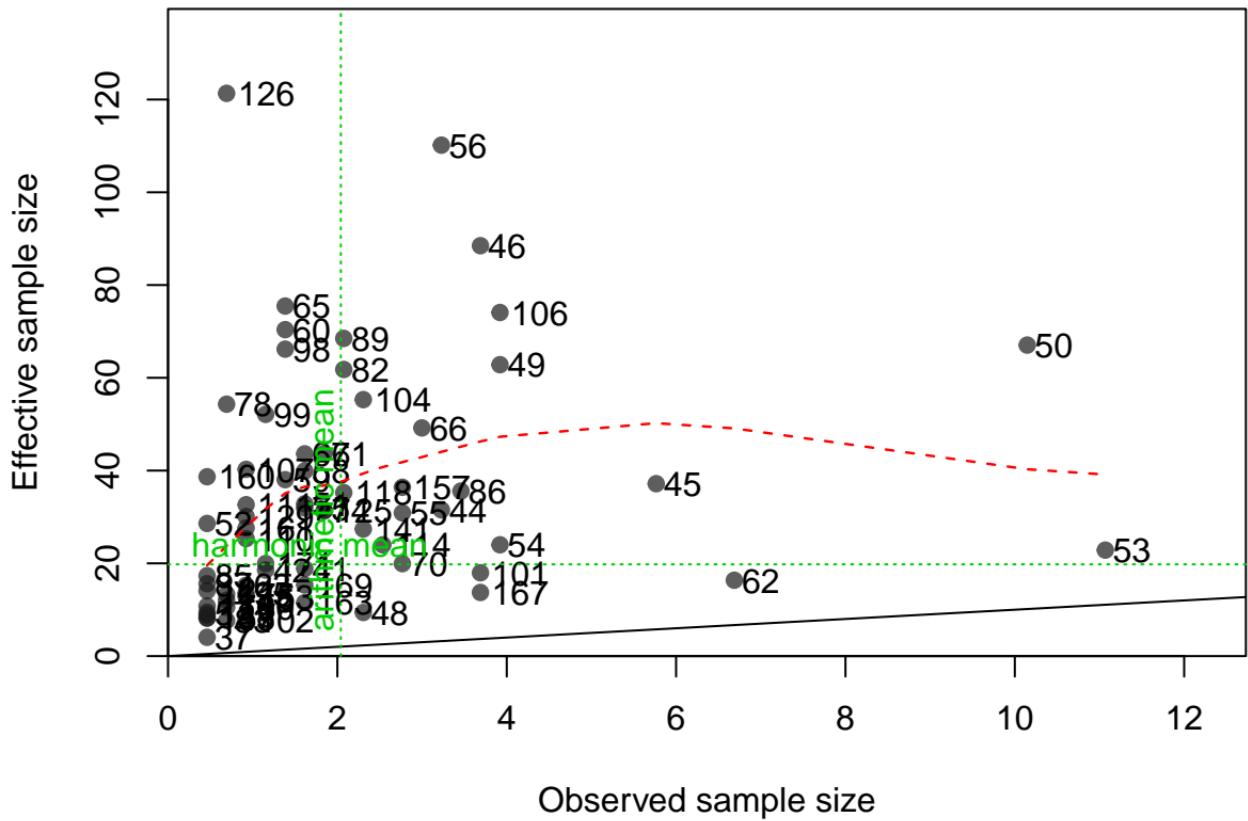


Proportion

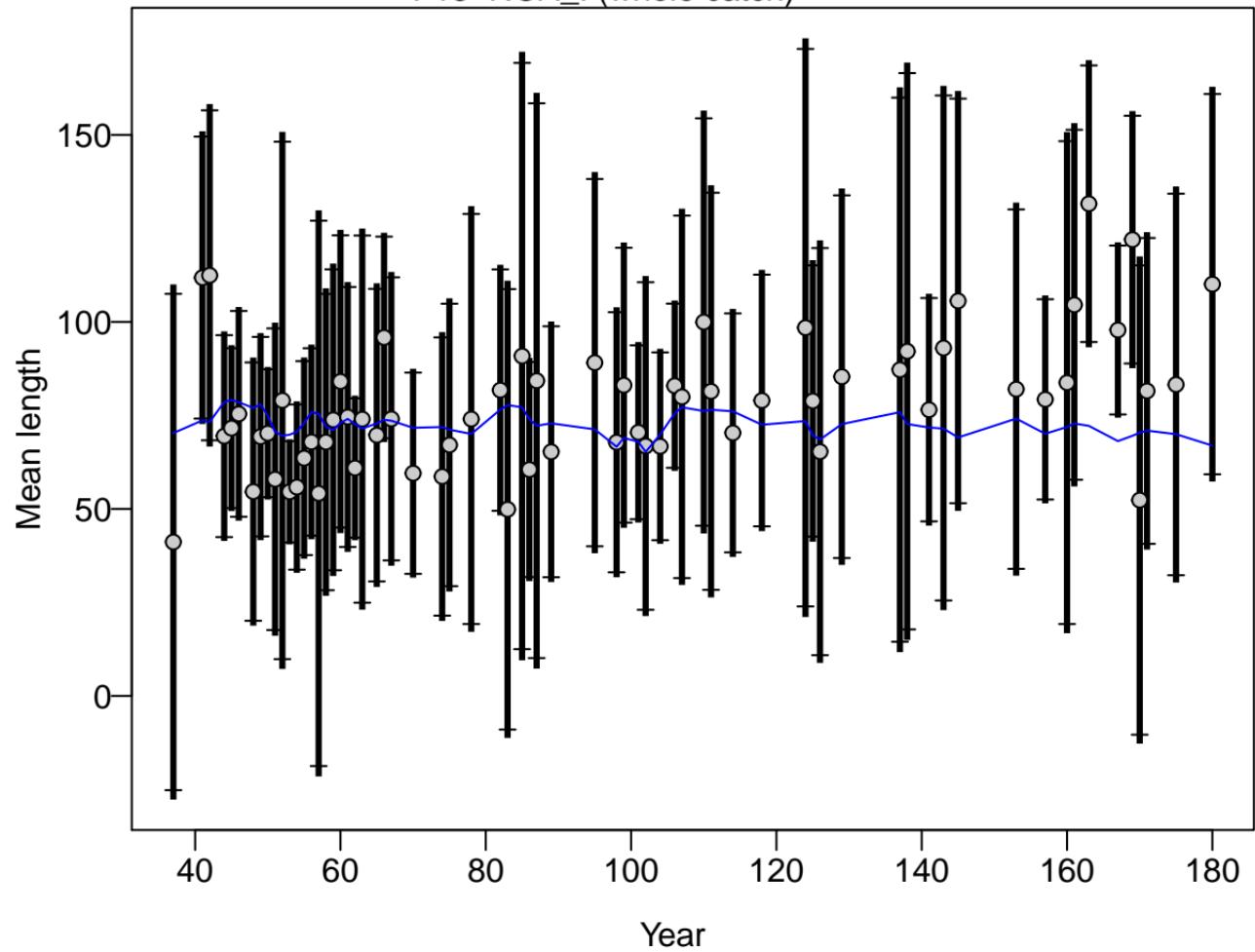




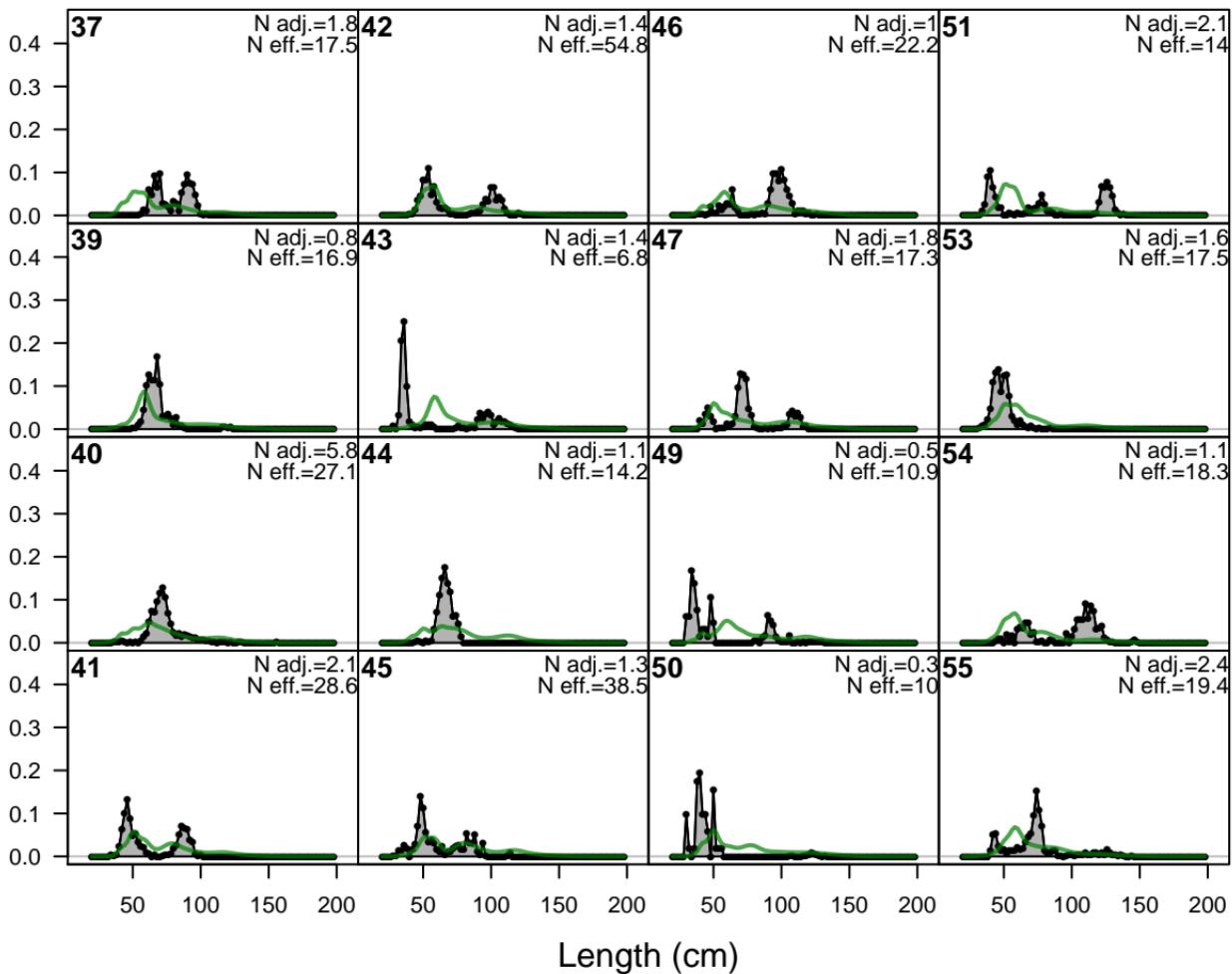




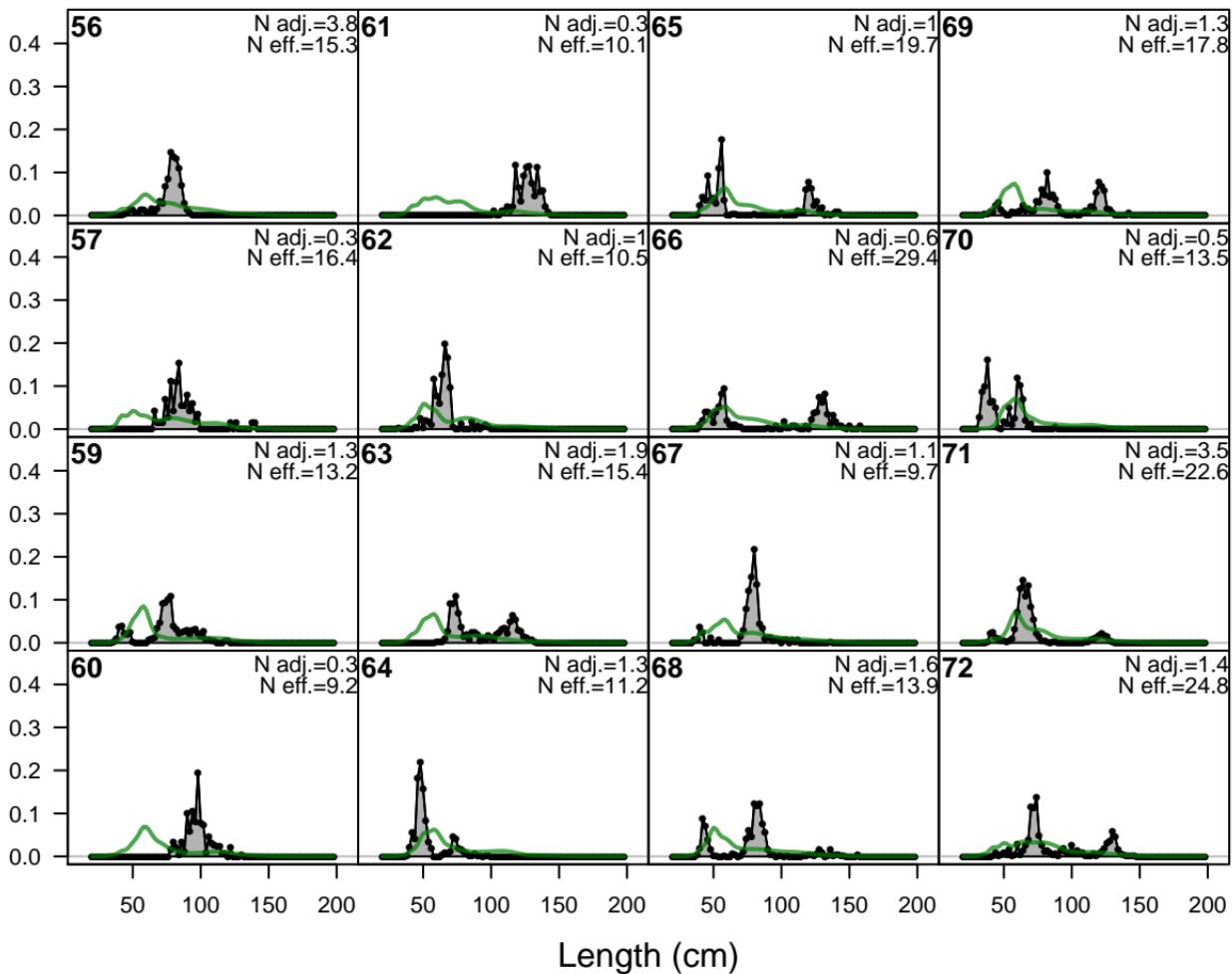
F13–NOA_I (whole catch)



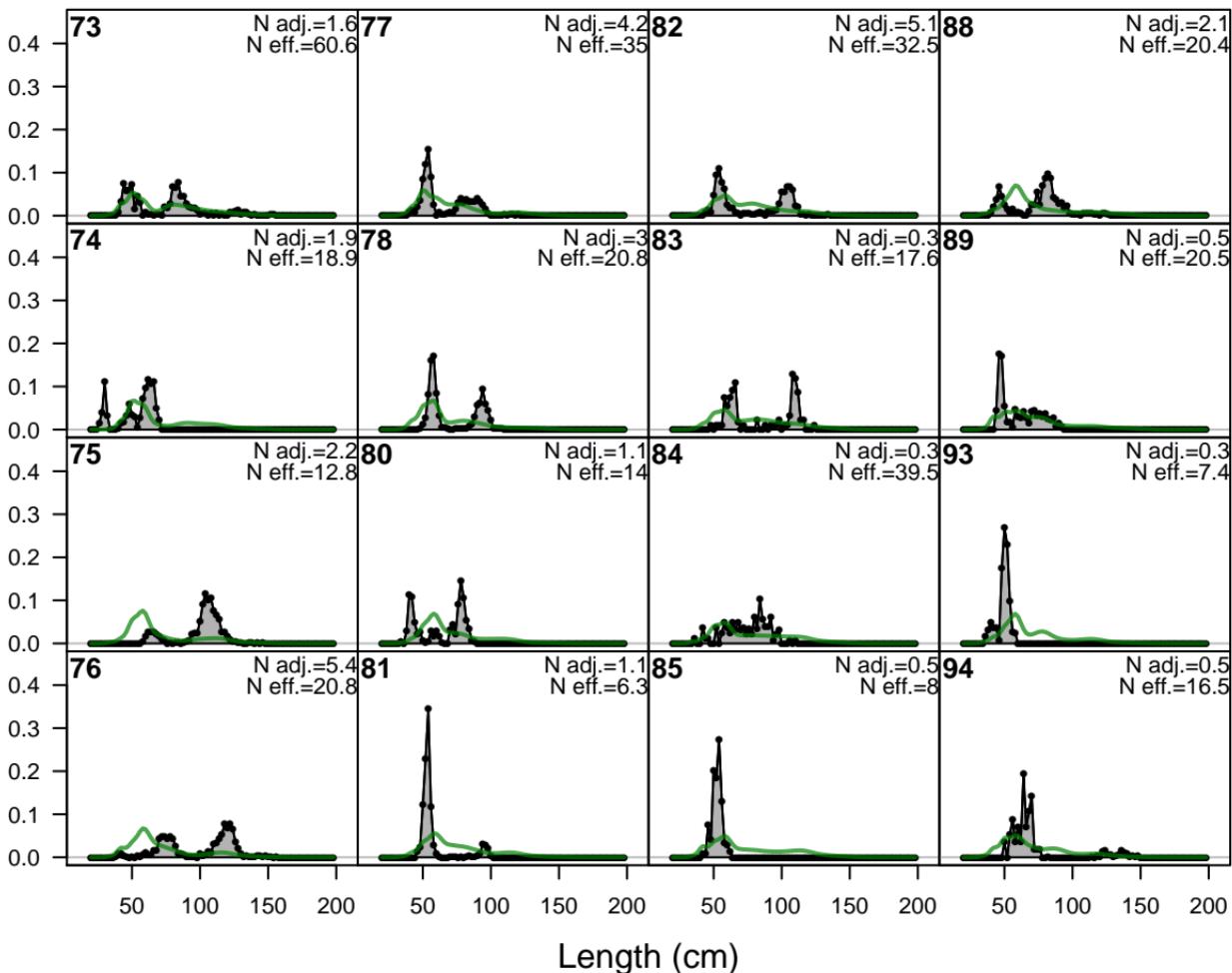
Proportion



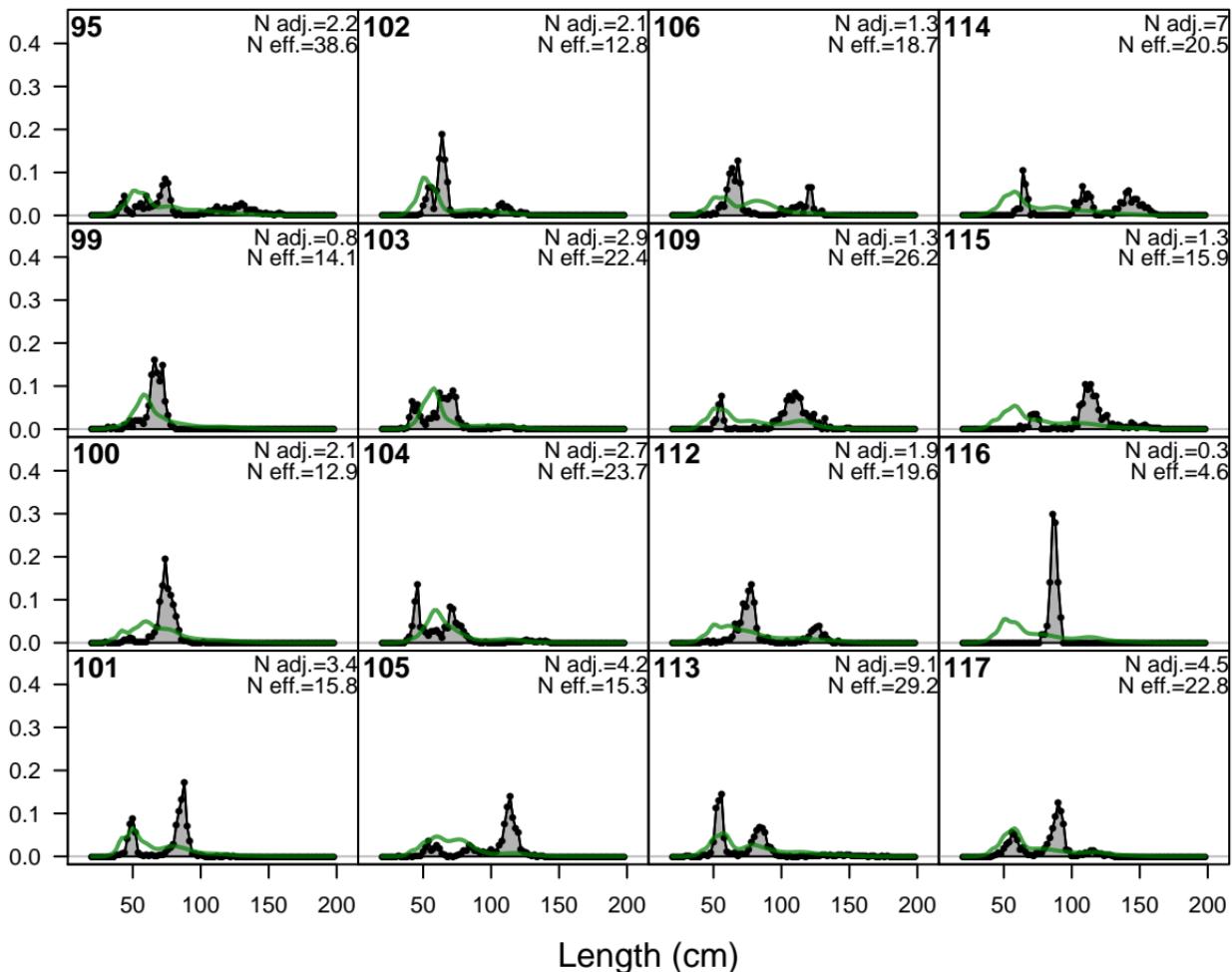
Proportion



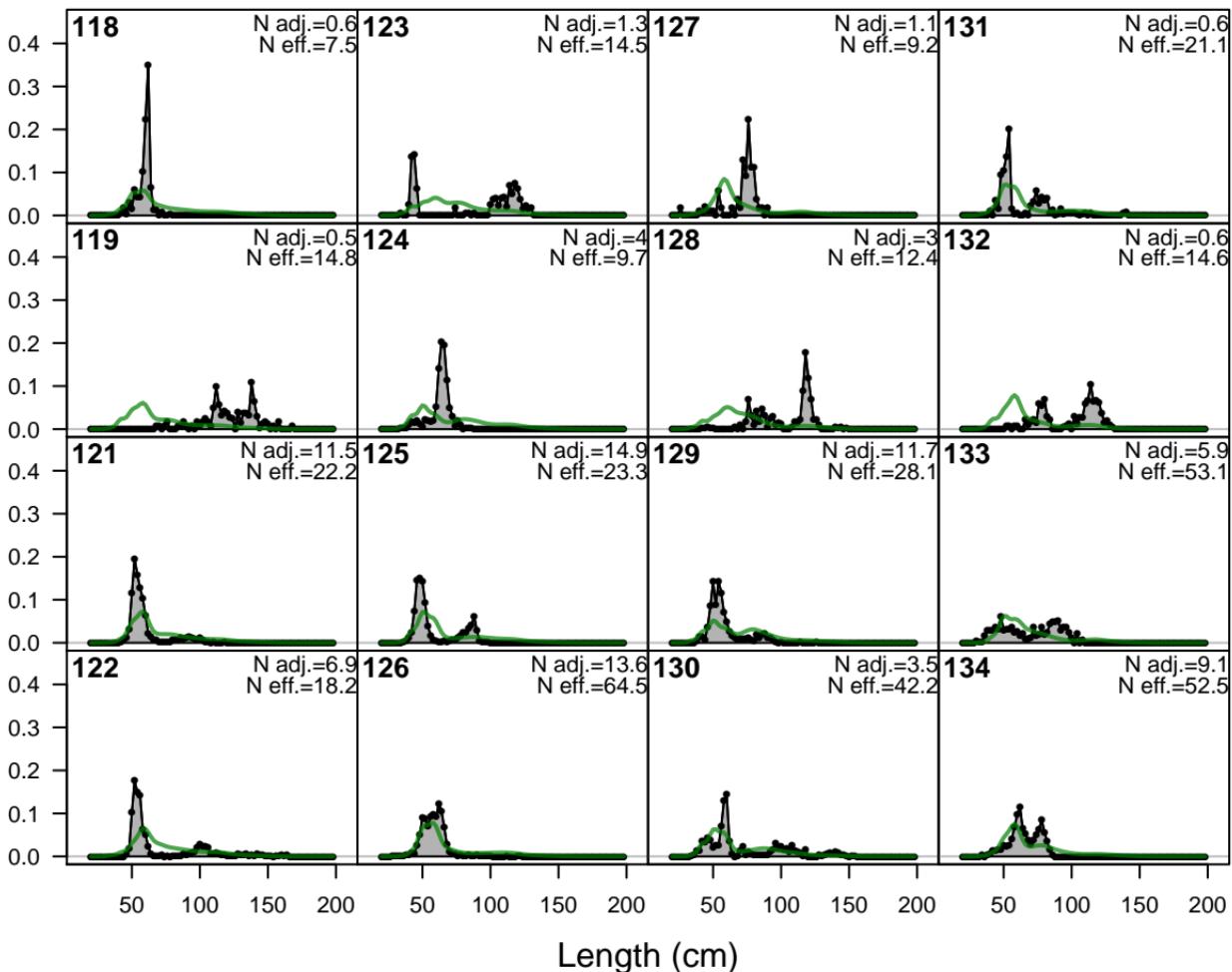
Proportion



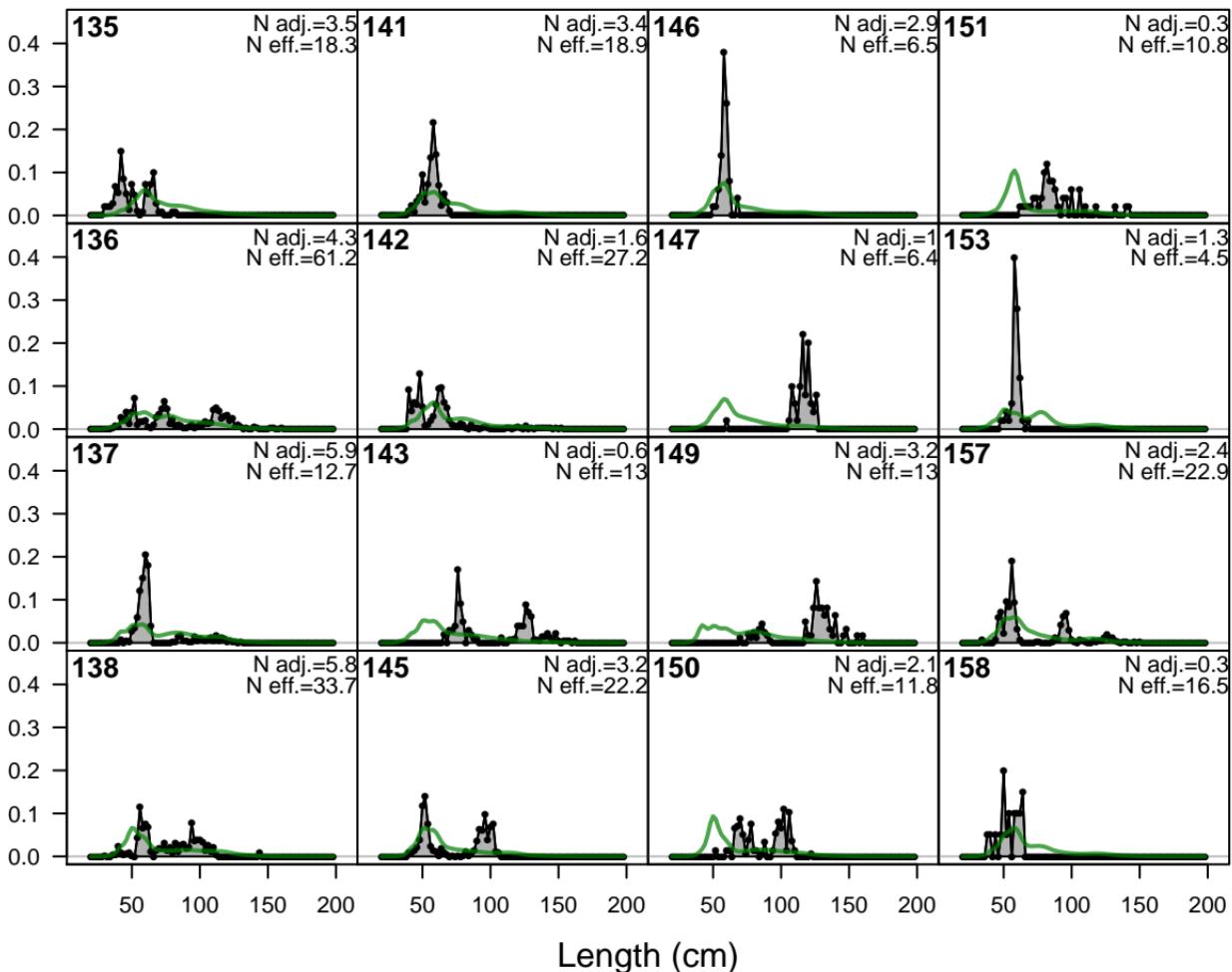
Proportion



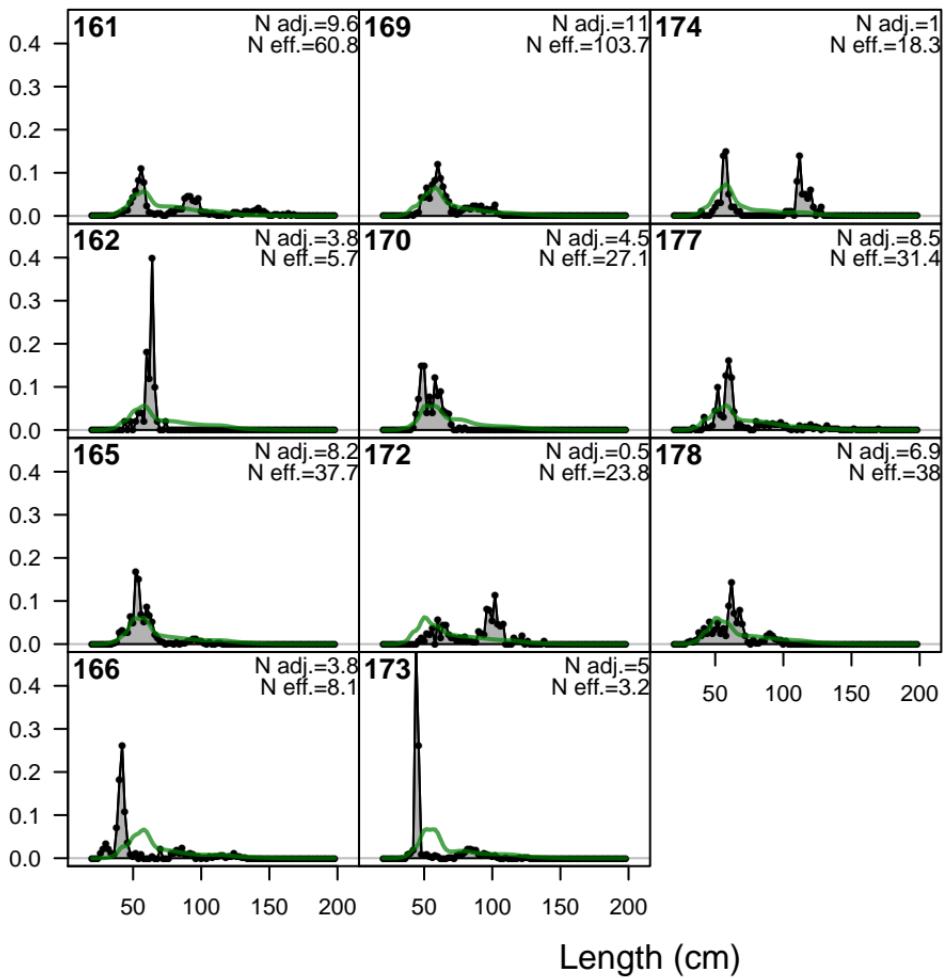
Proportion

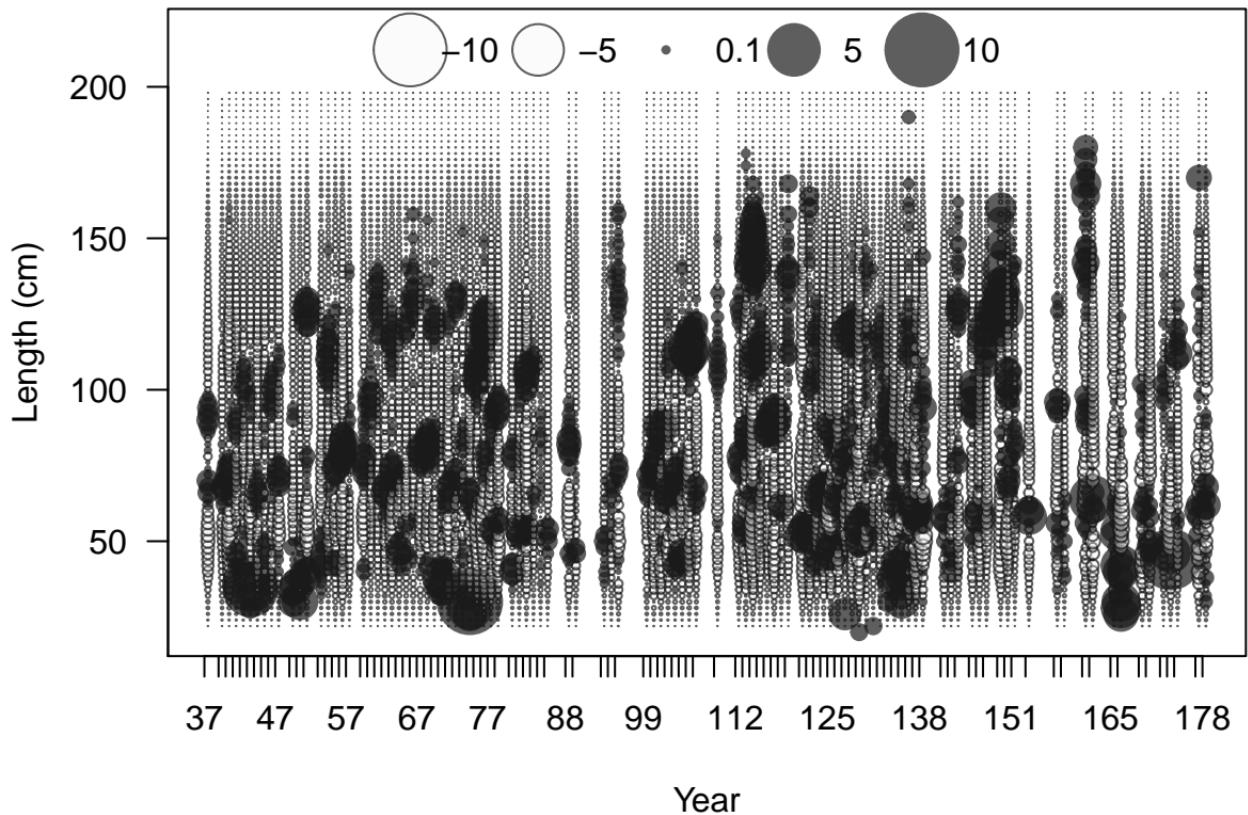


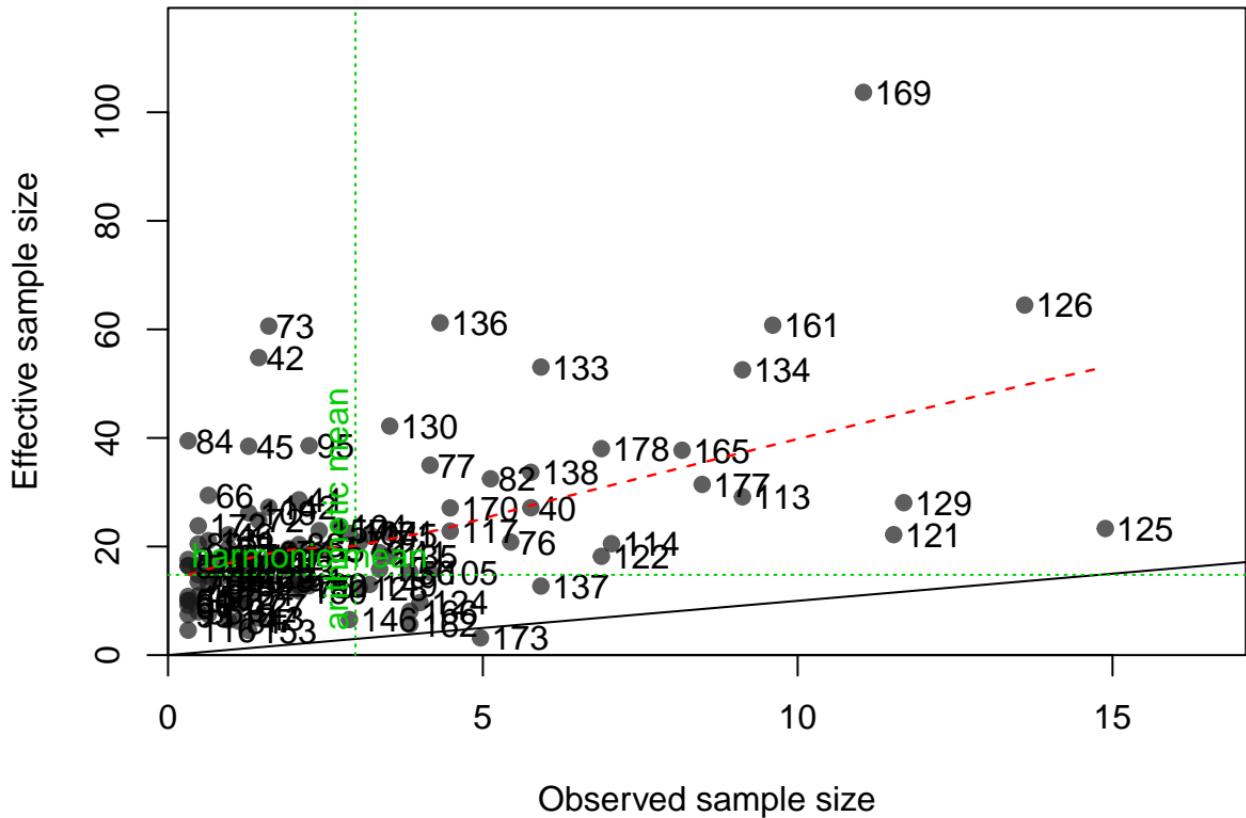
Proportion



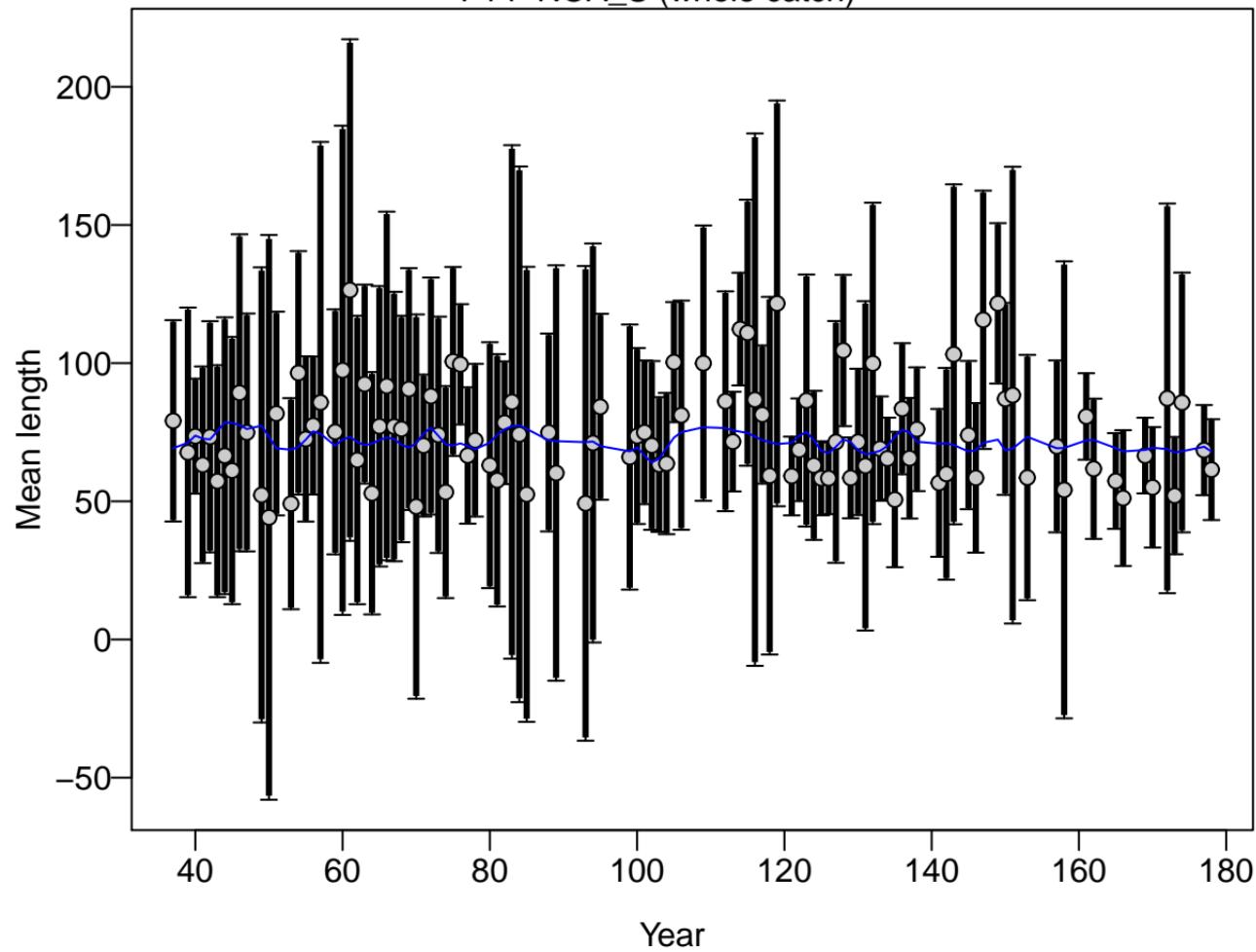
Proportion



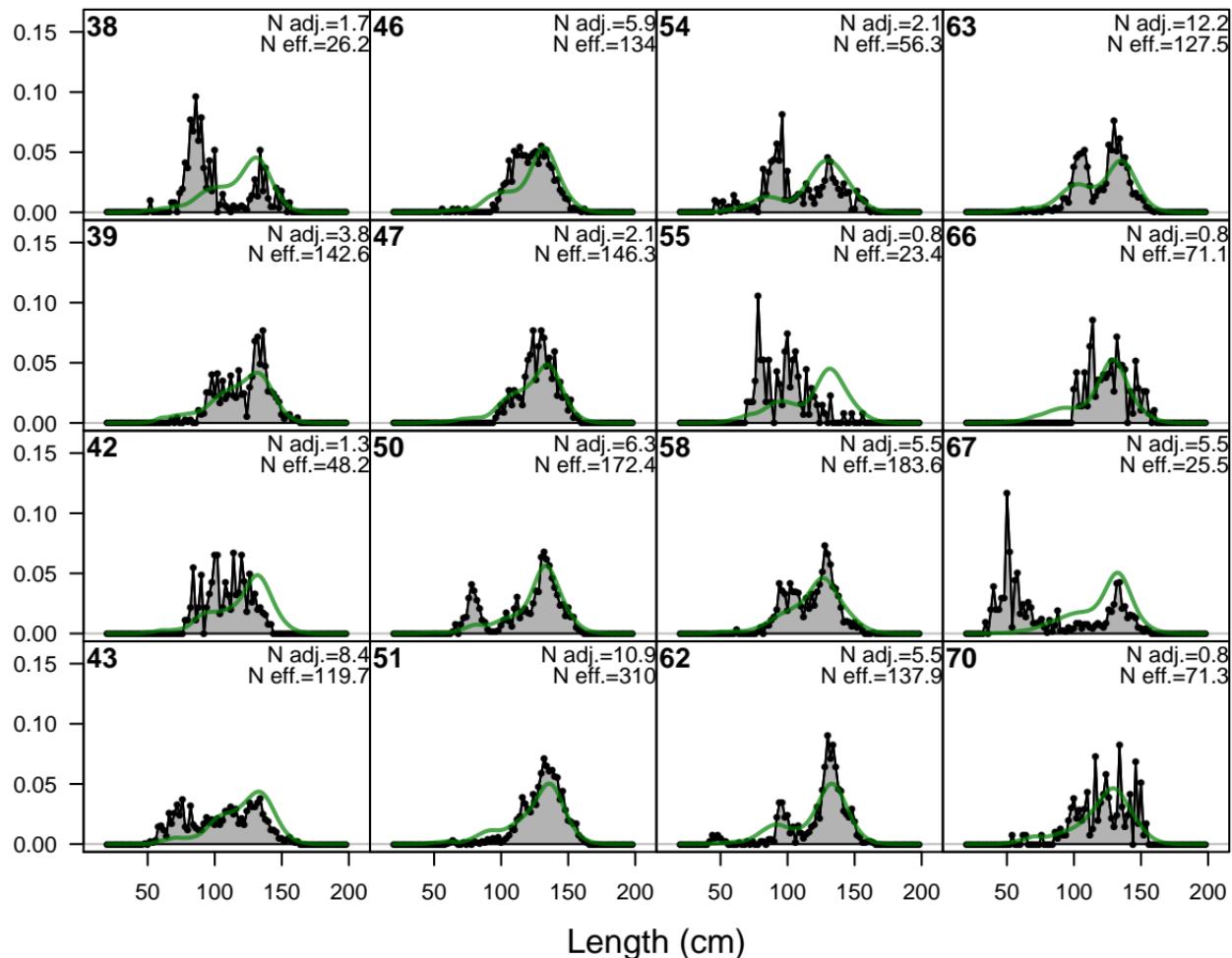




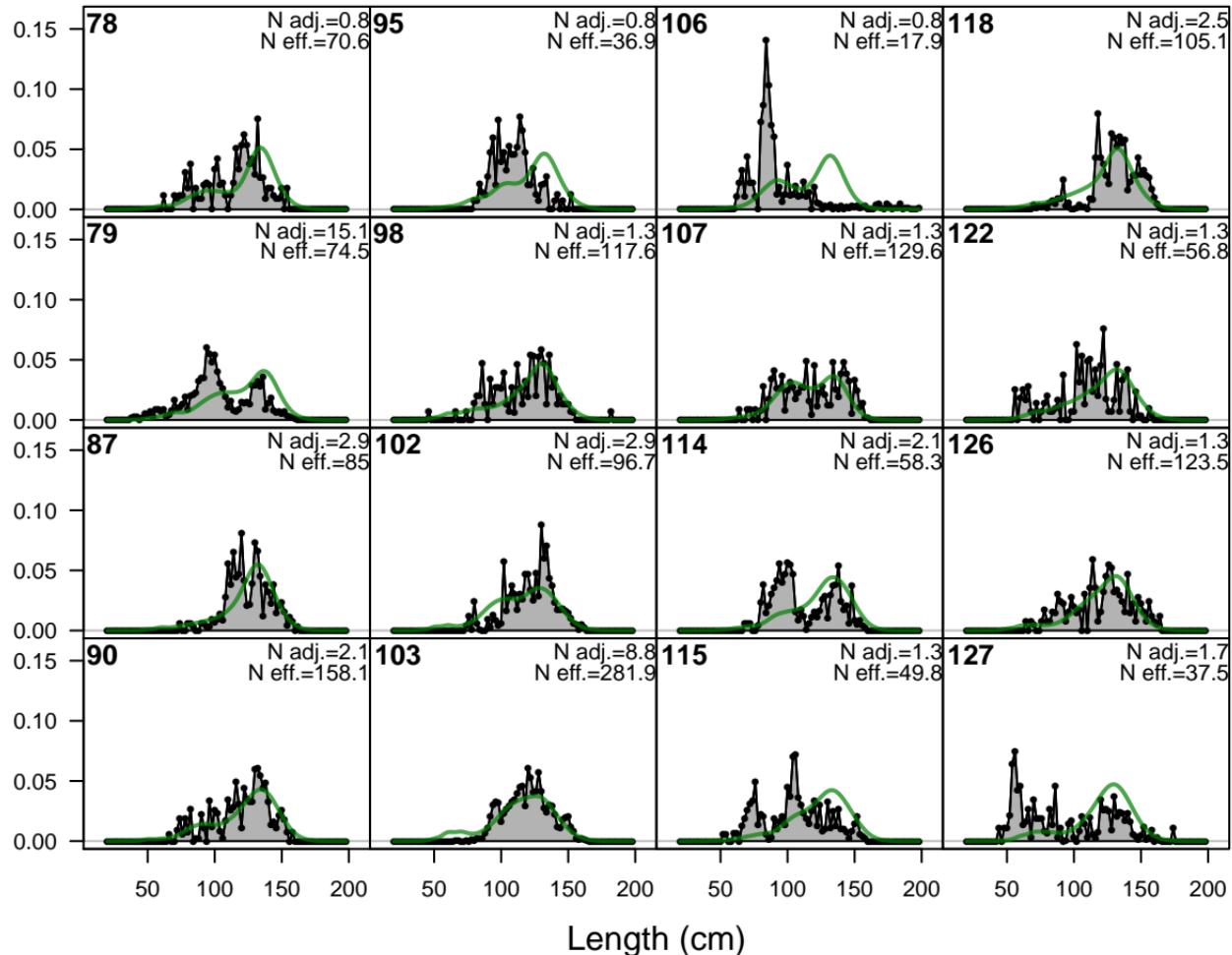
F14-NOA_S (whole catch)



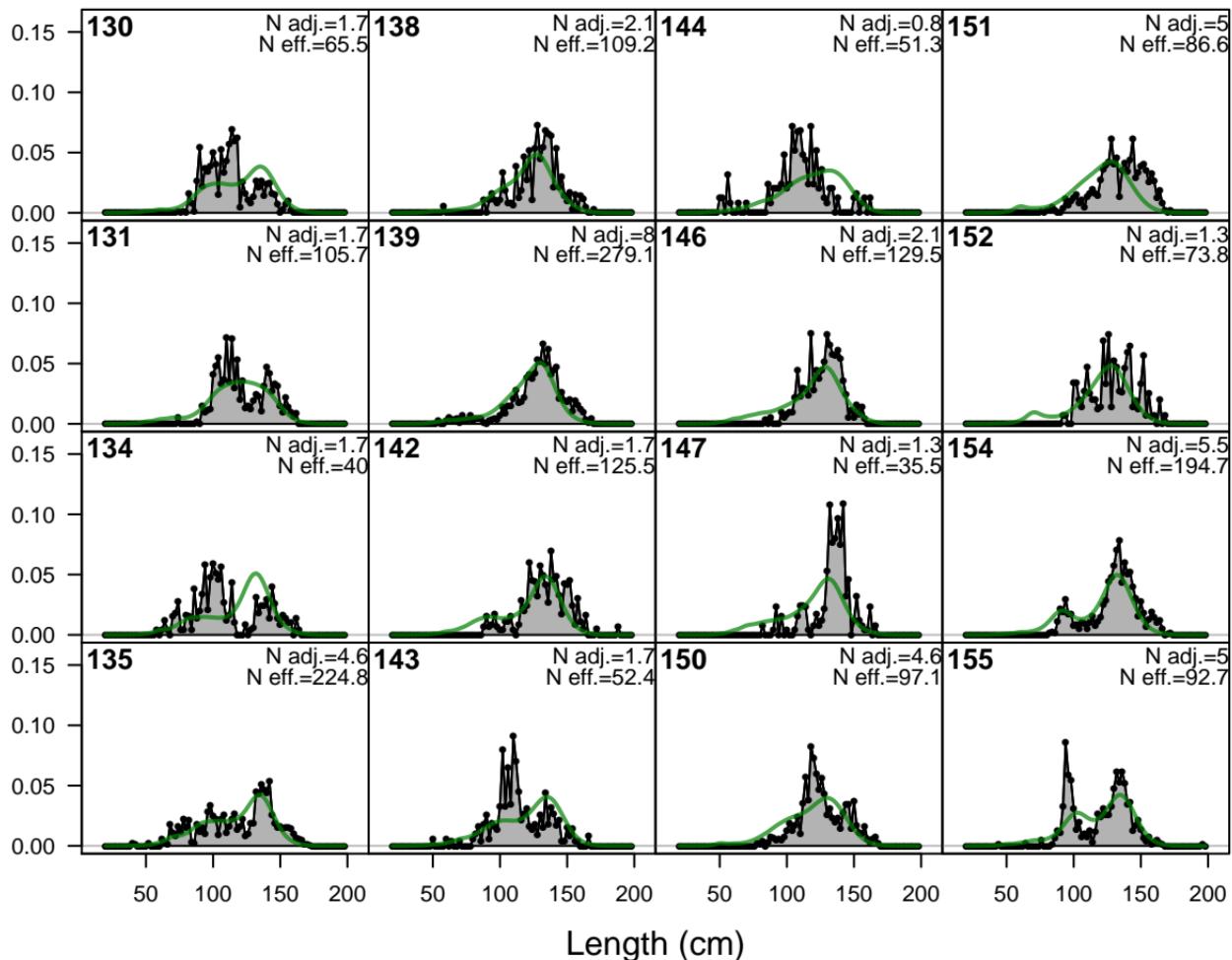
Proportion



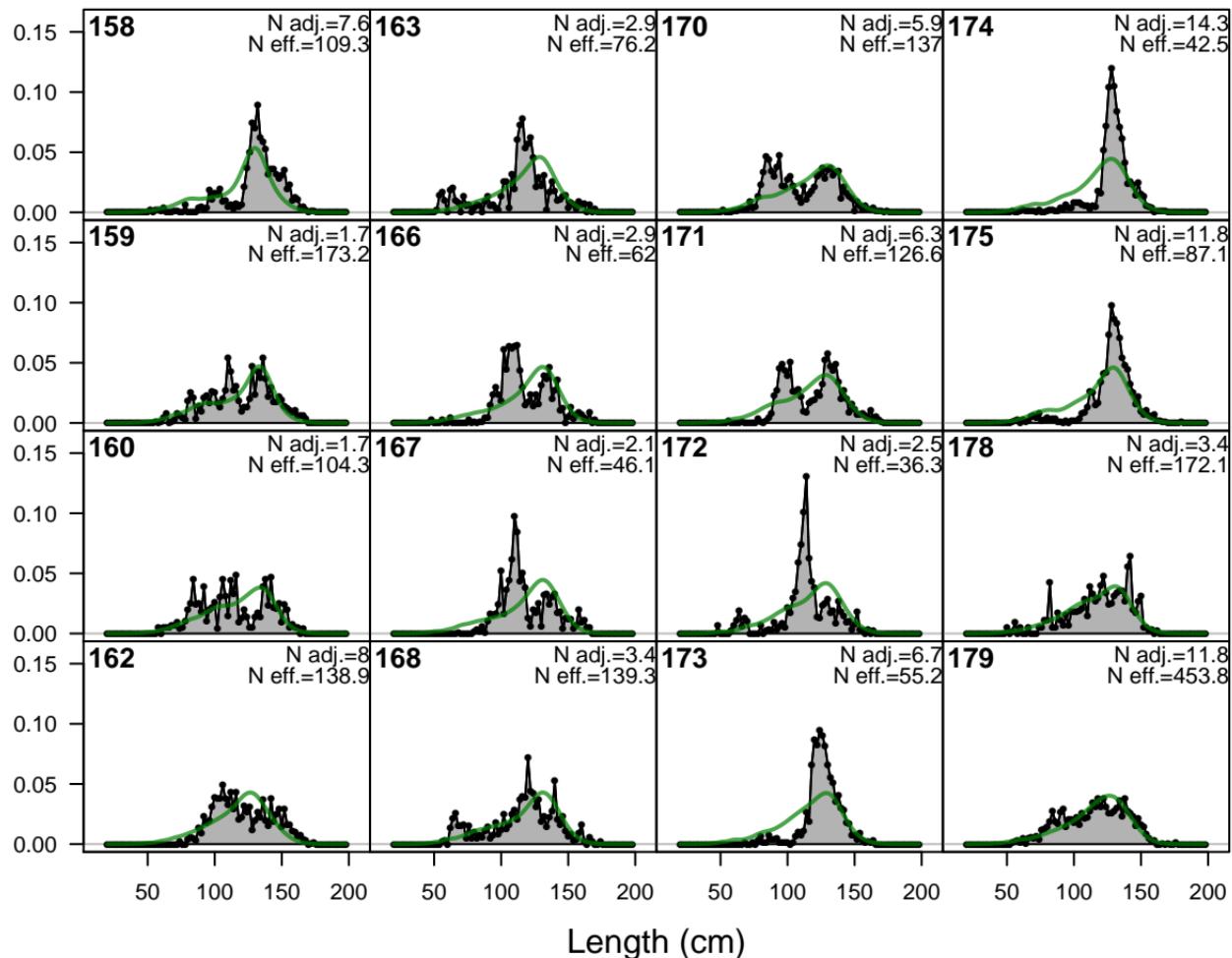
Proportion



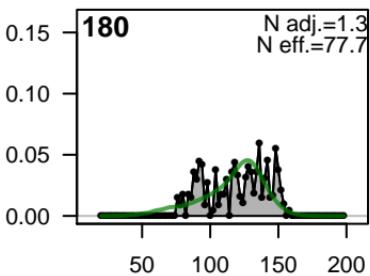
Proportion

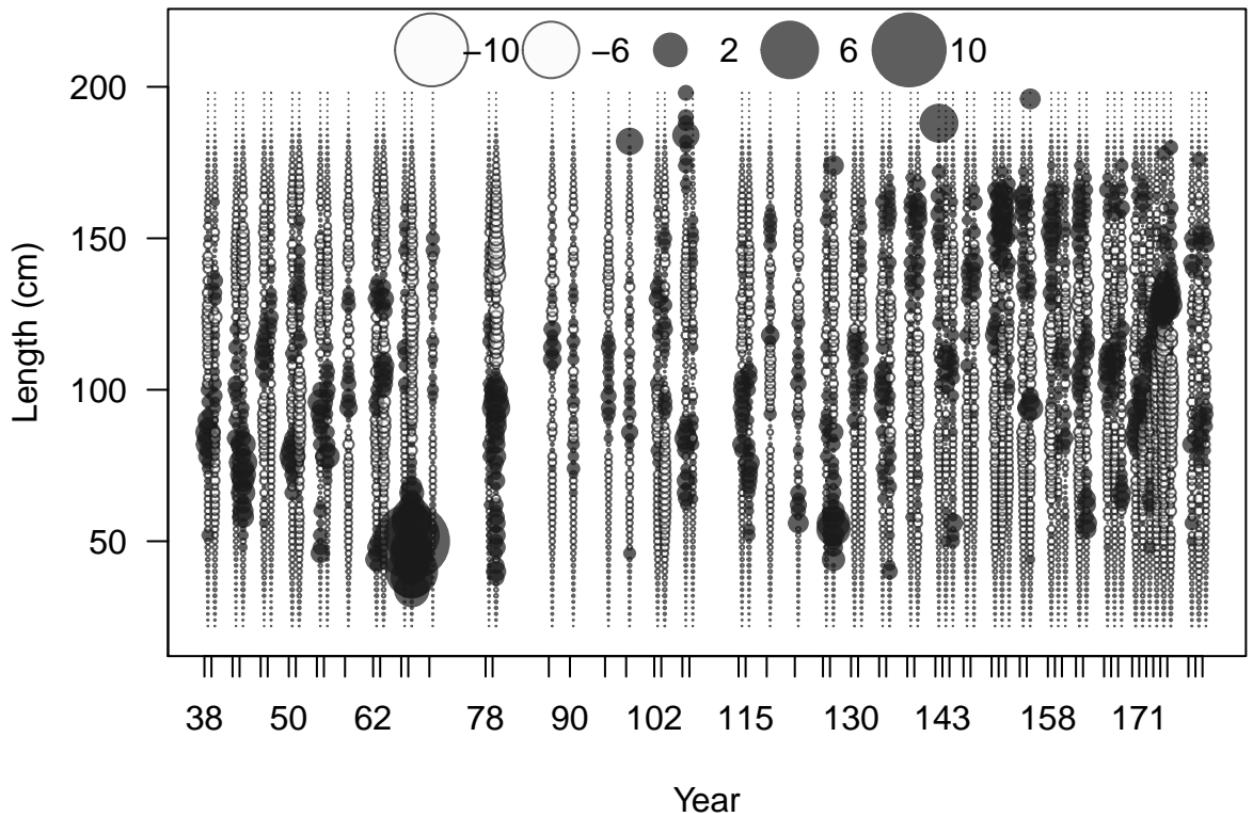


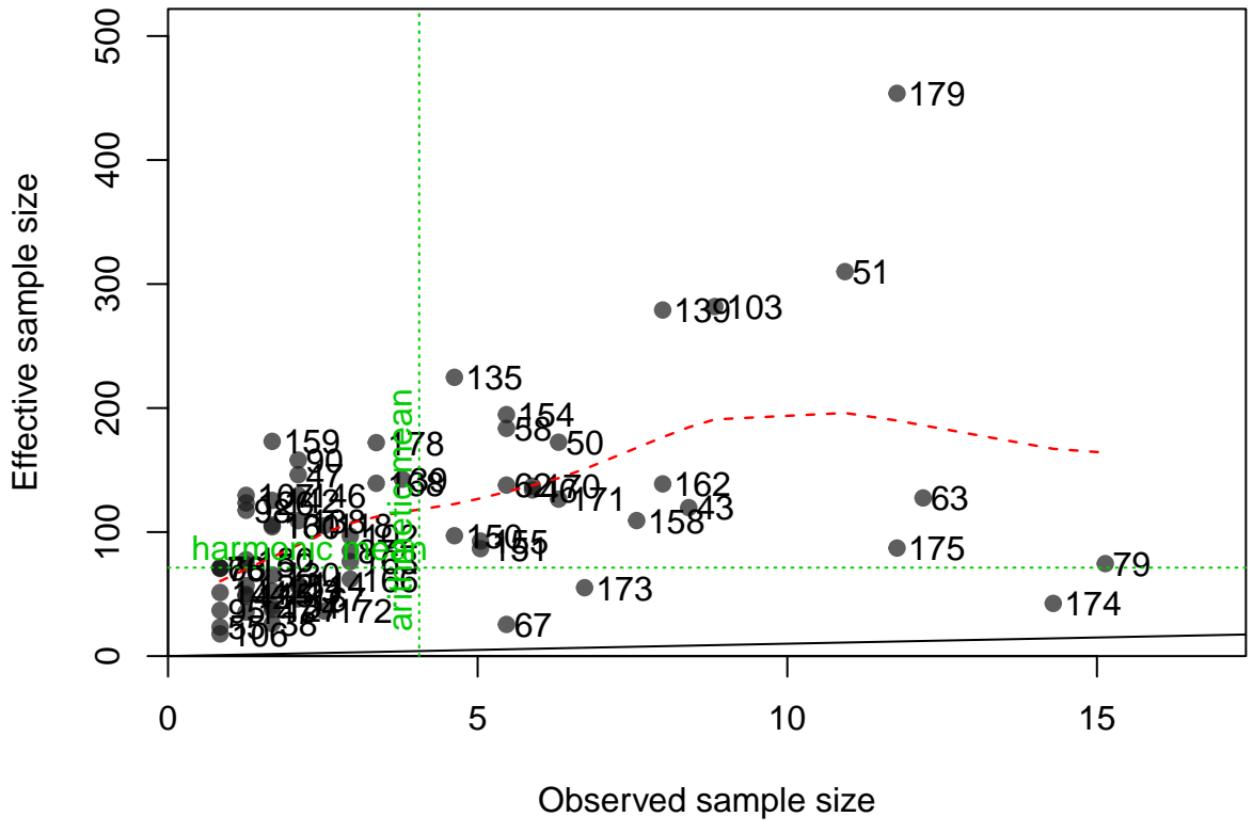
Proportion



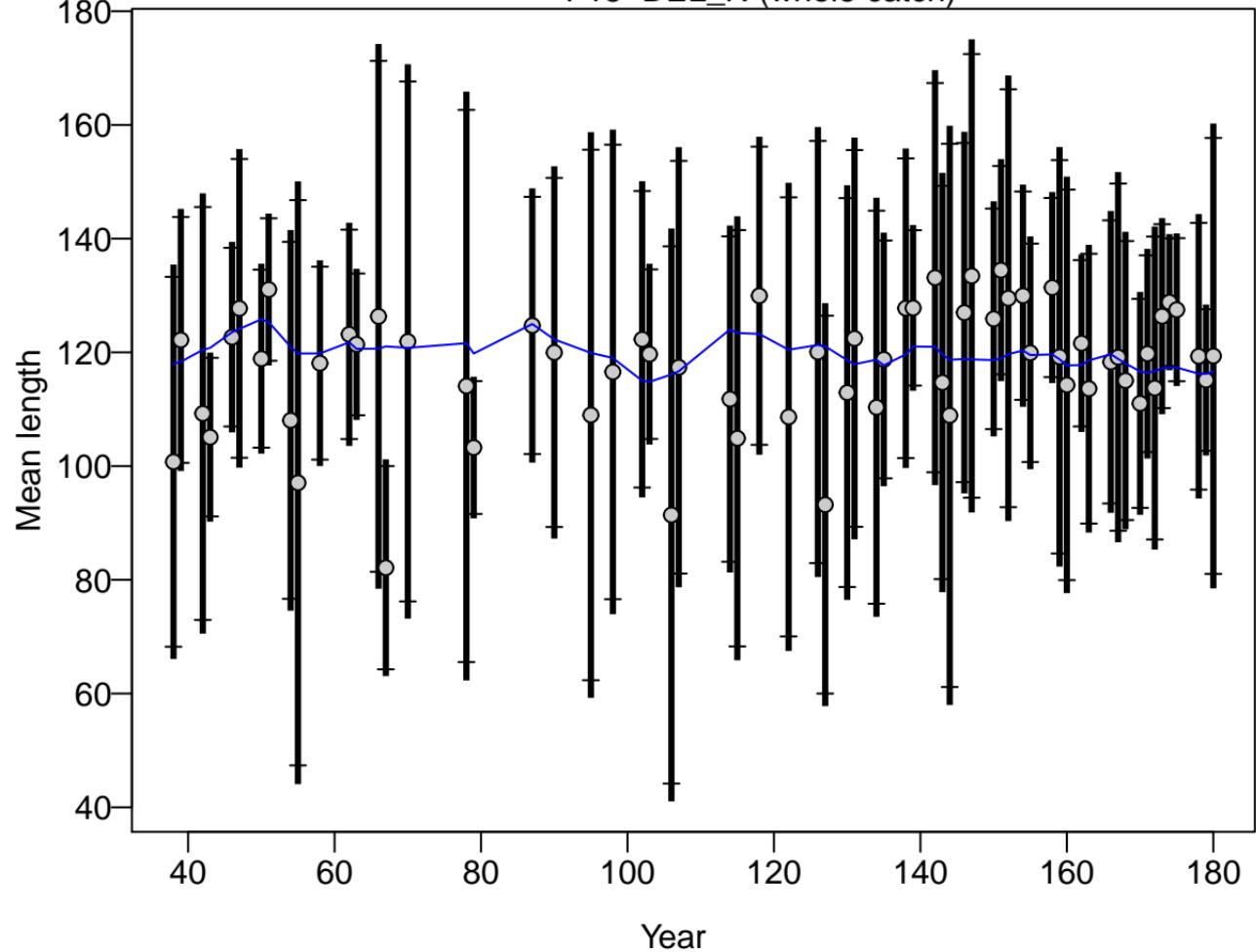
Proportion



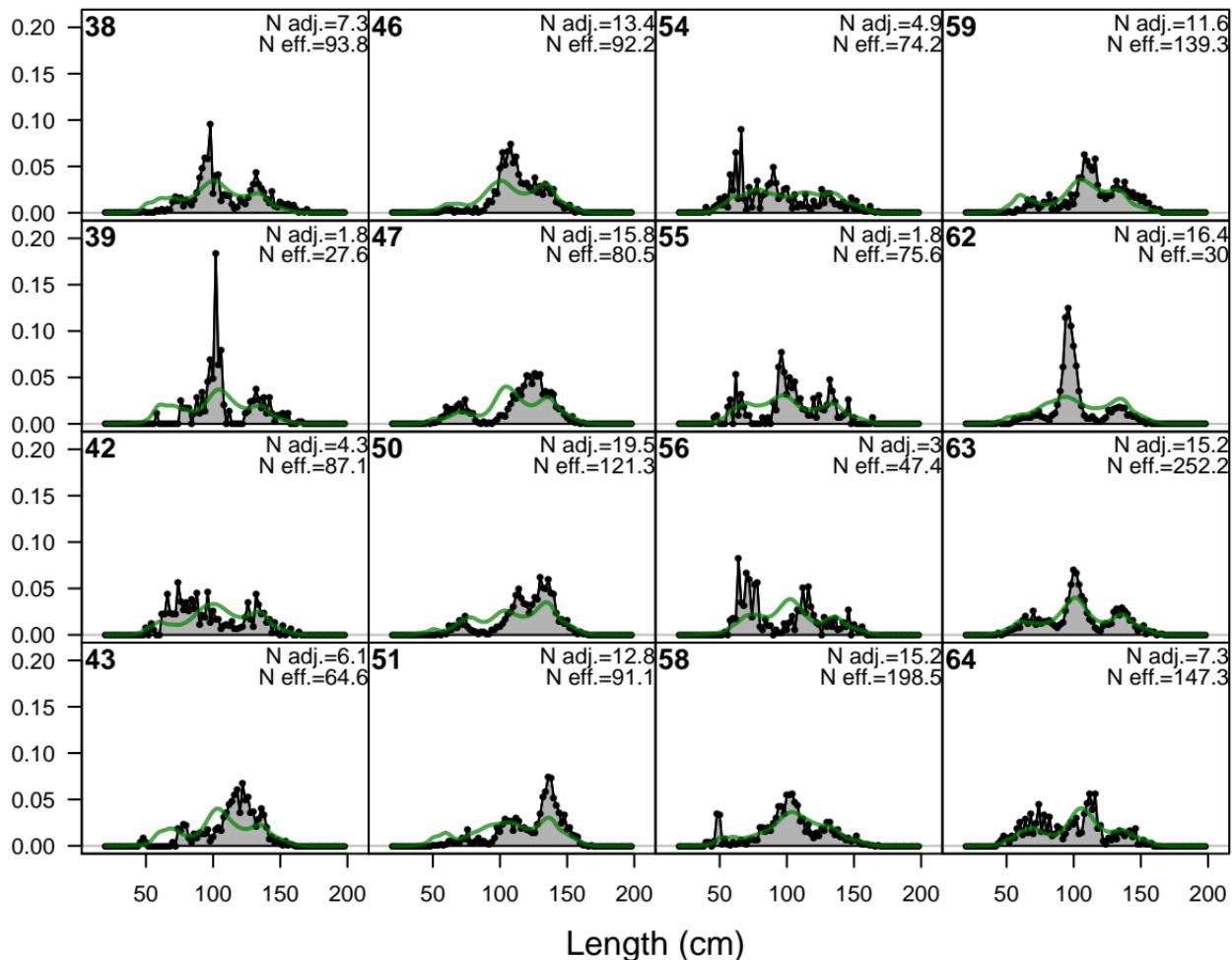




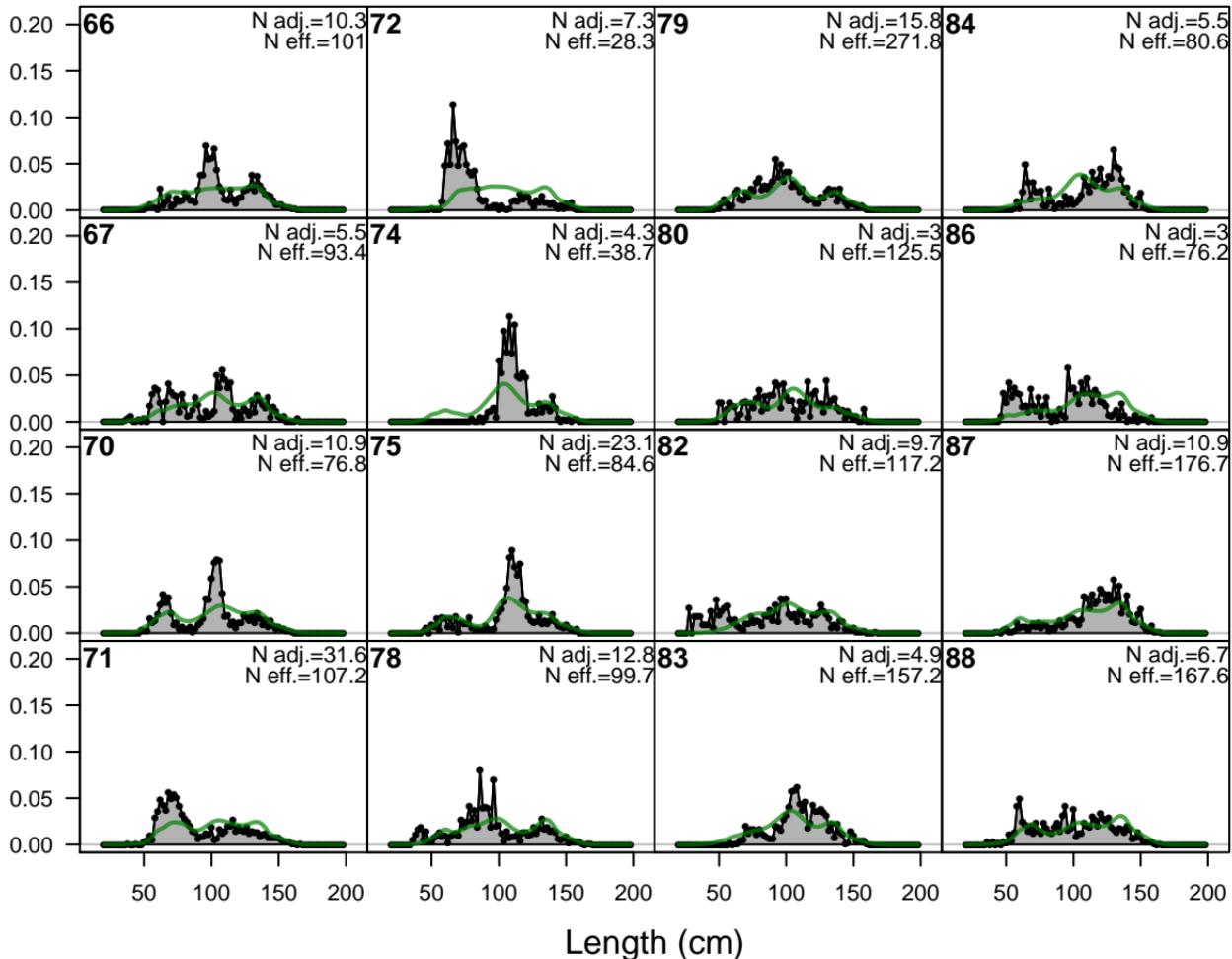
F15-DEL_N (whole catch)



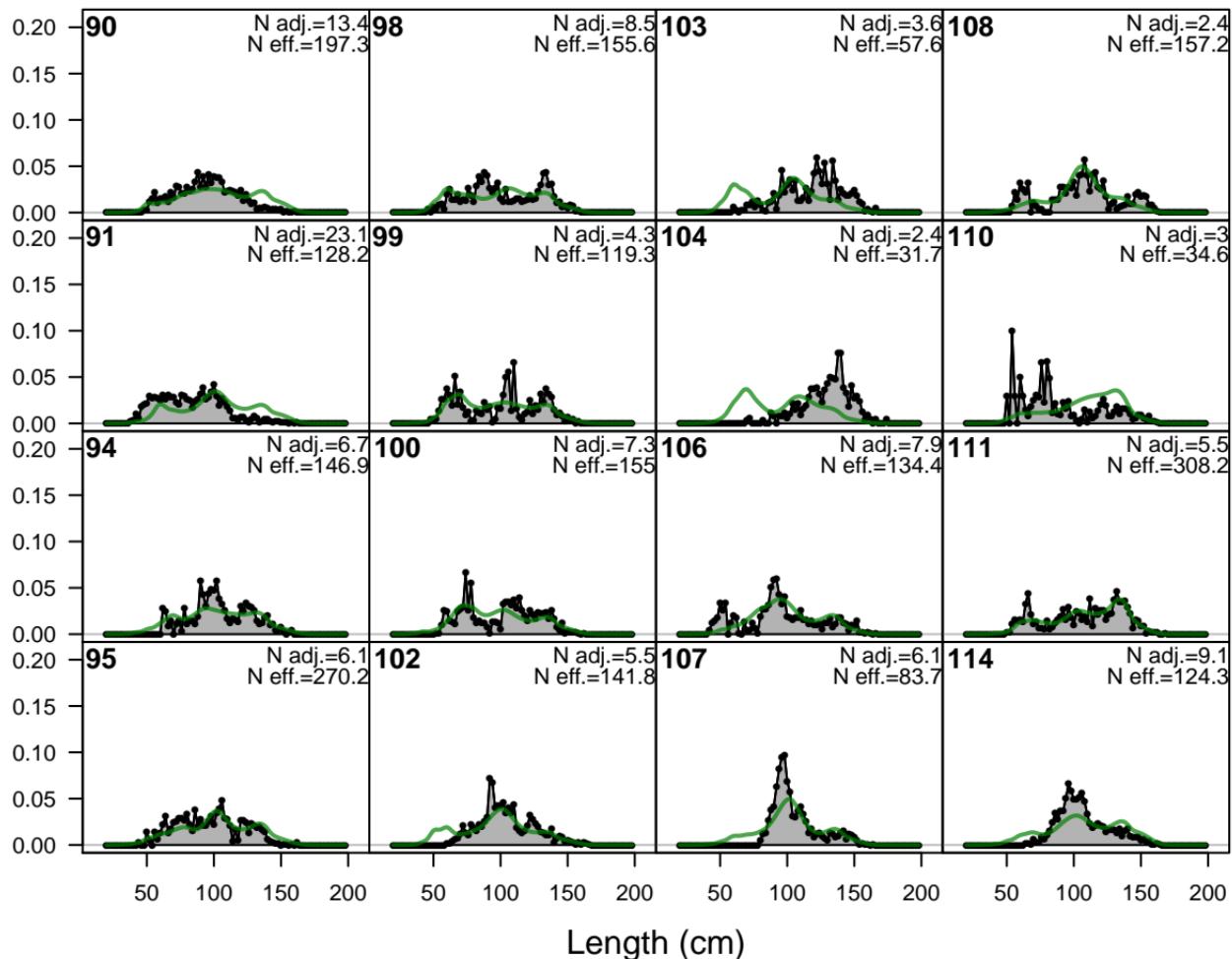
Proportion



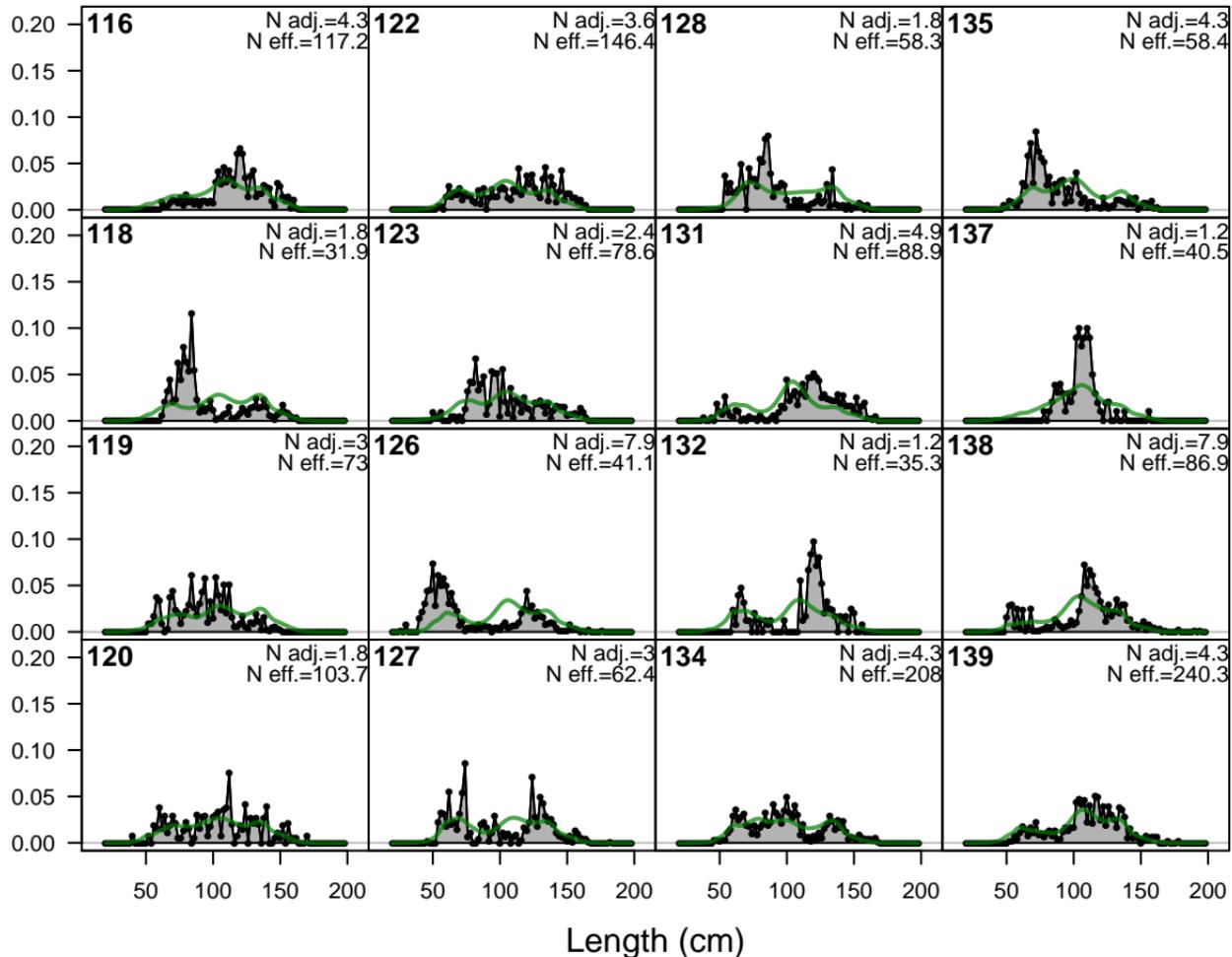
Proportion



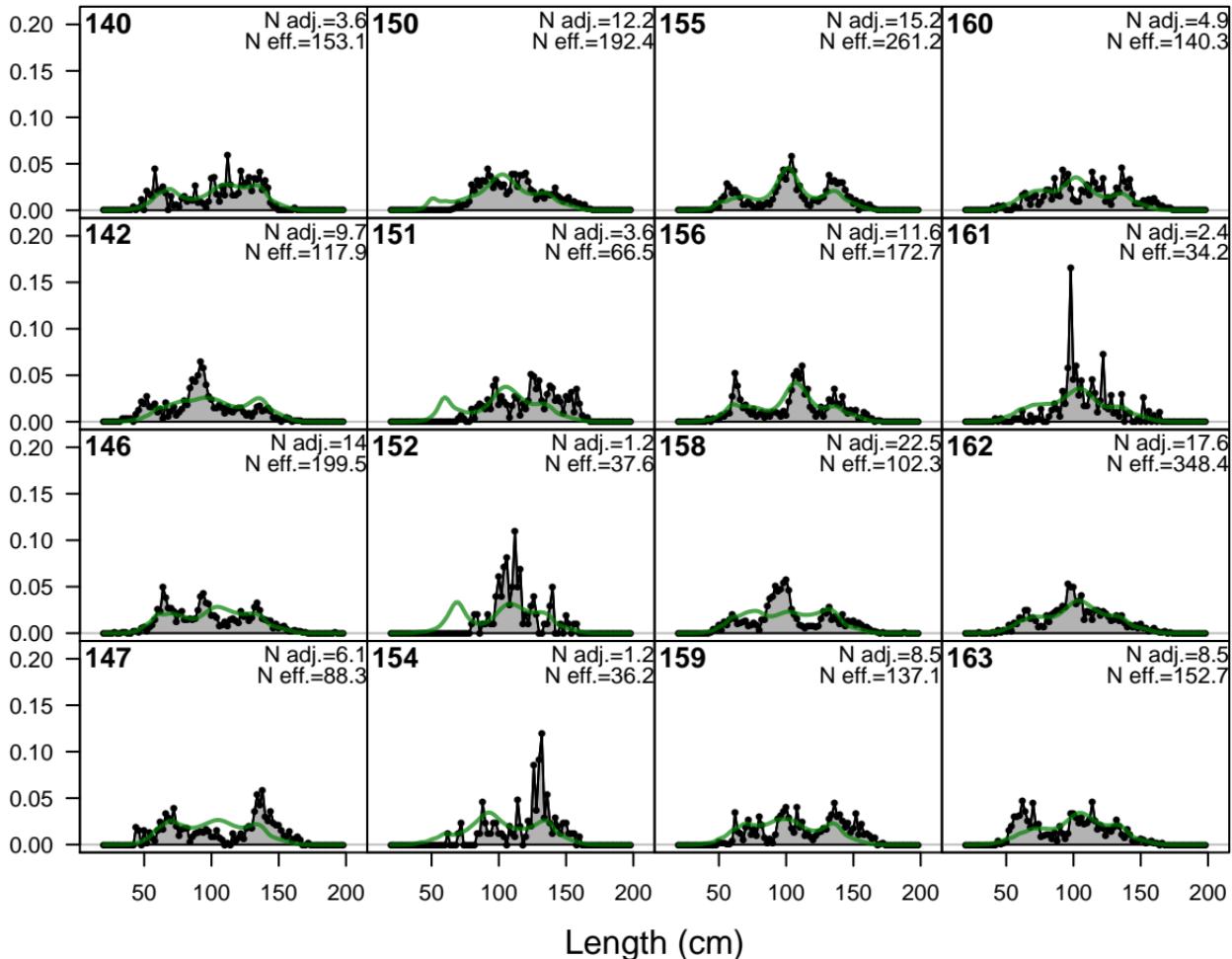
Proportion

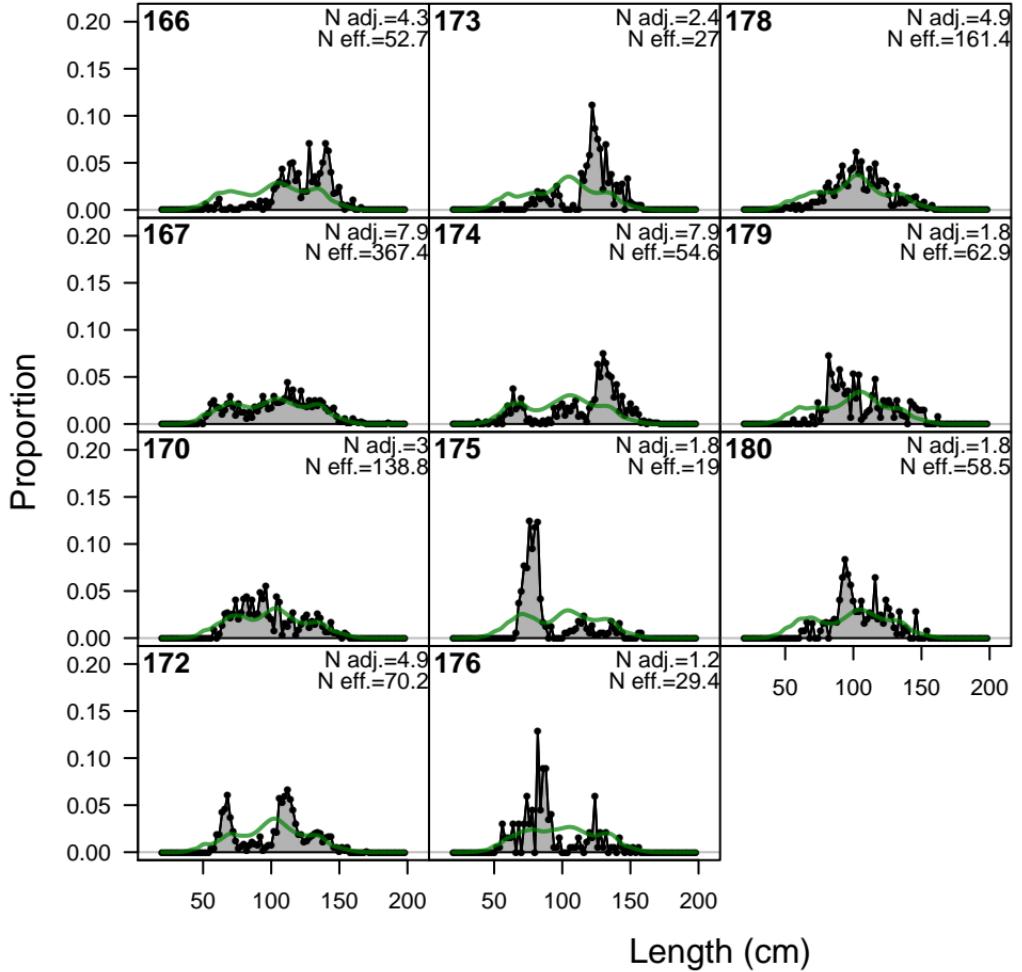


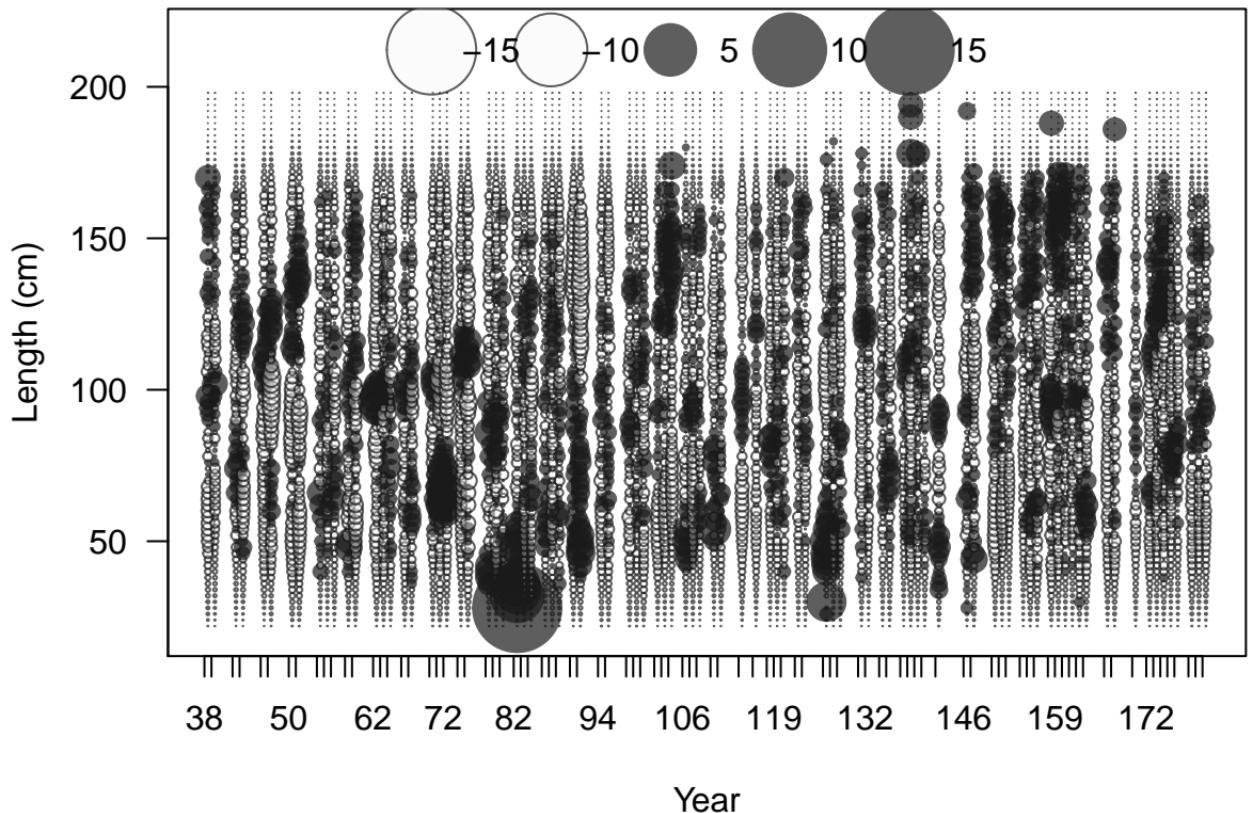
Proportion

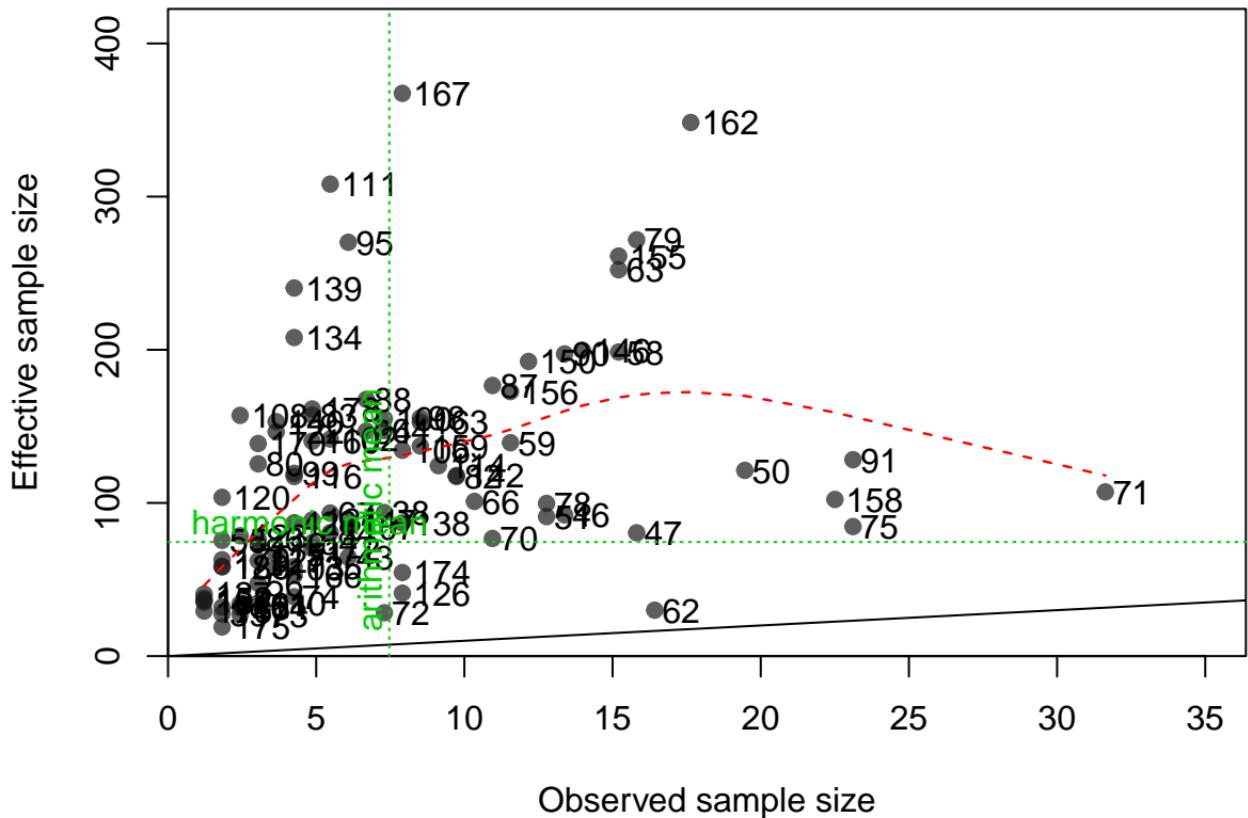


Proportion

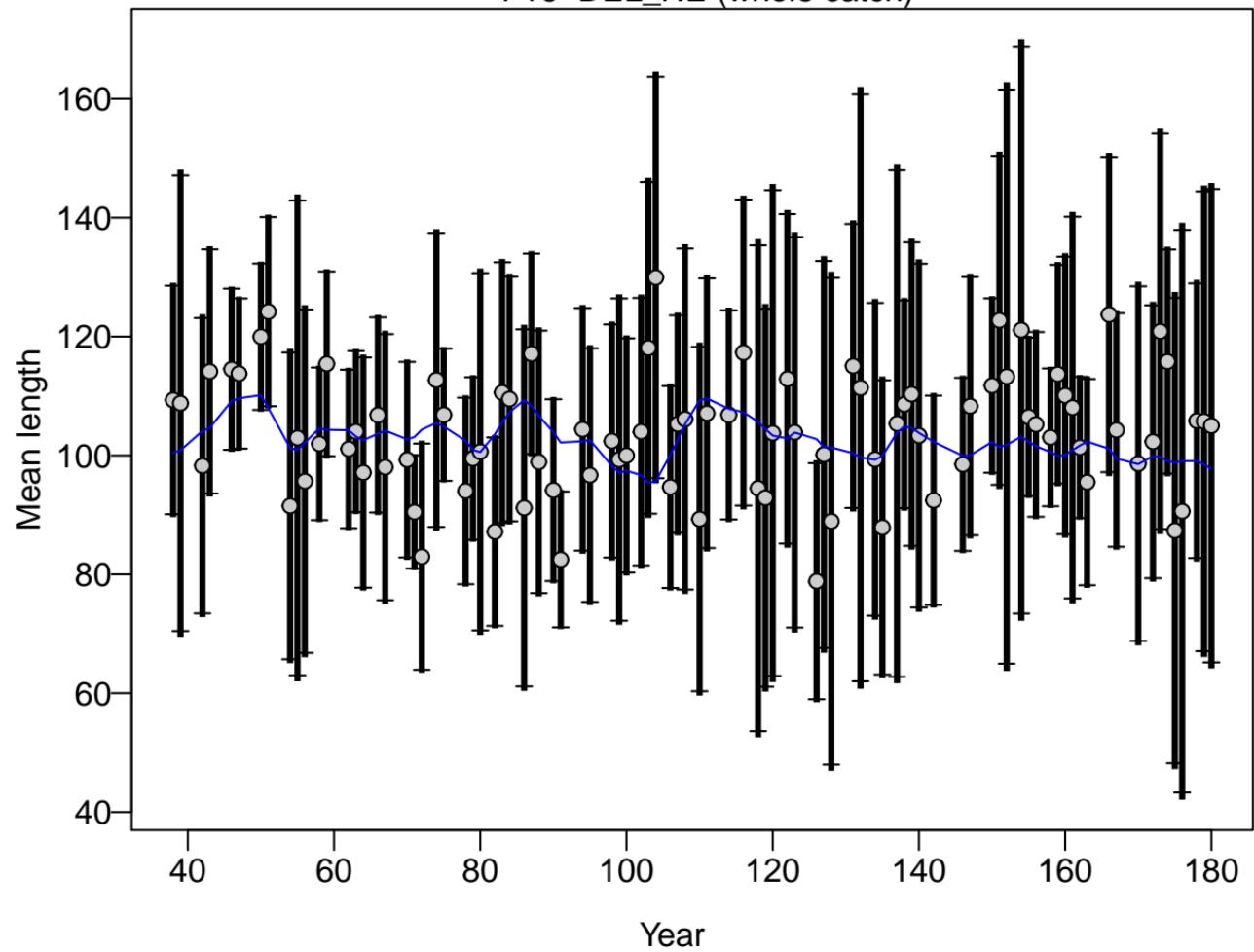


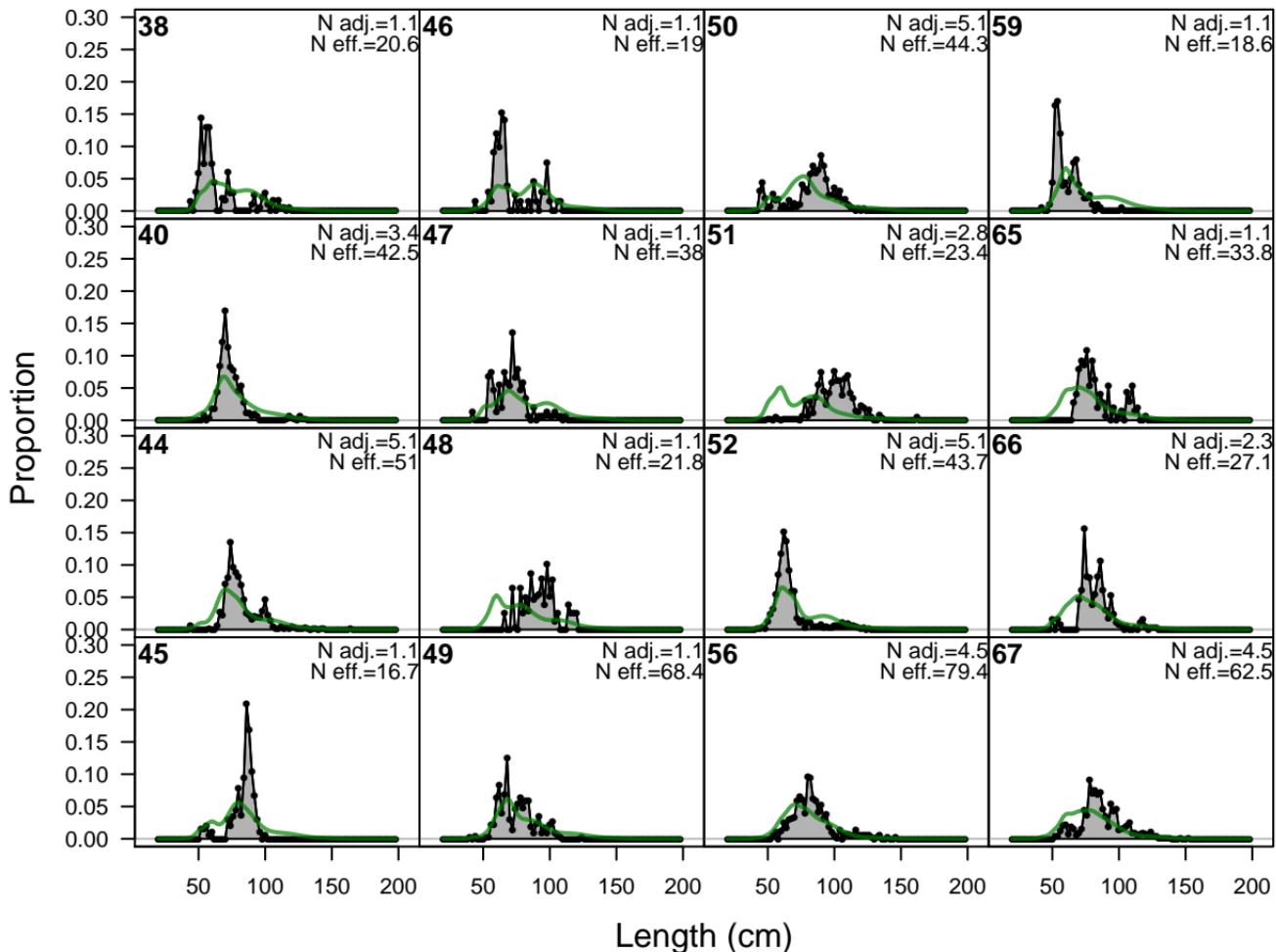




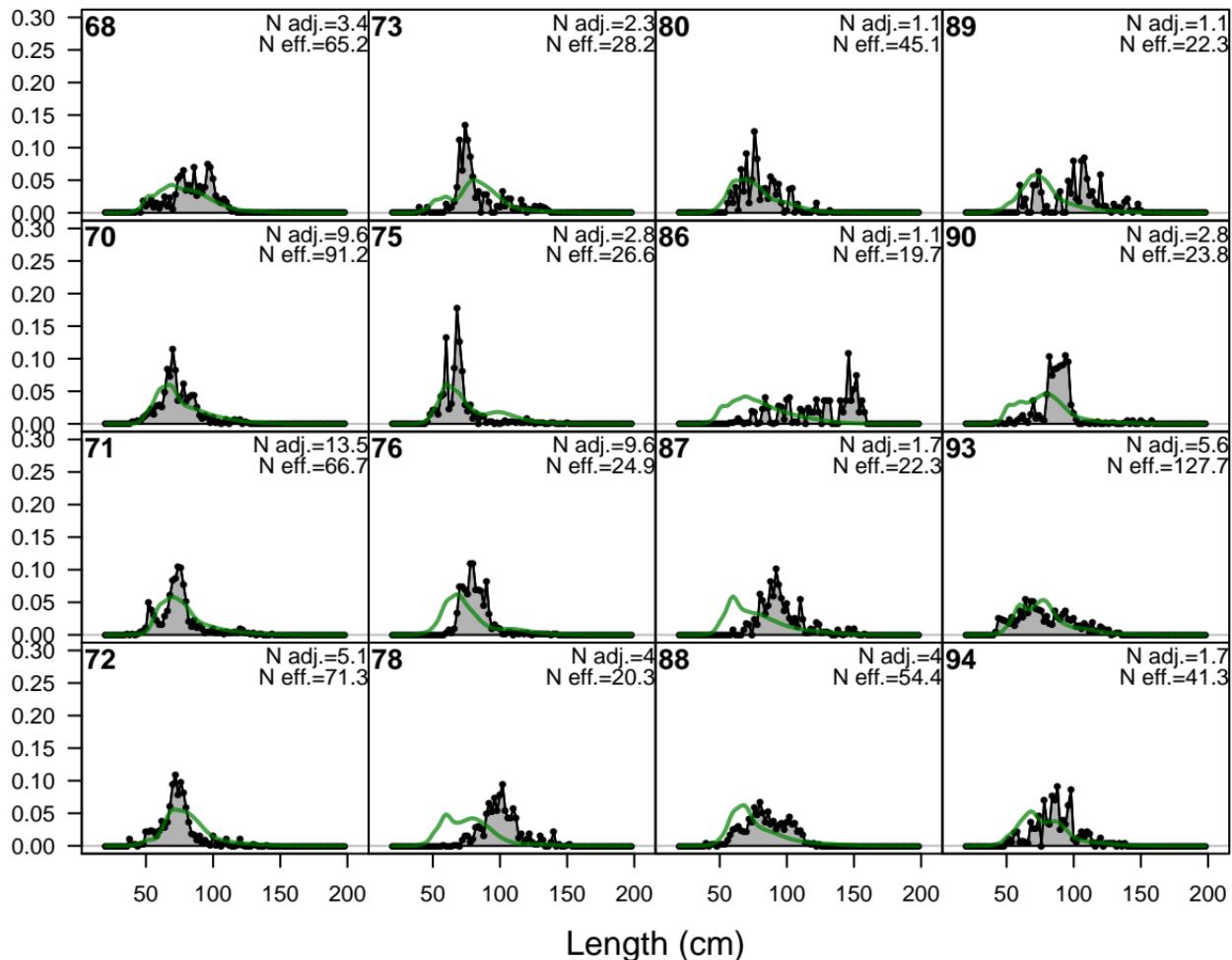


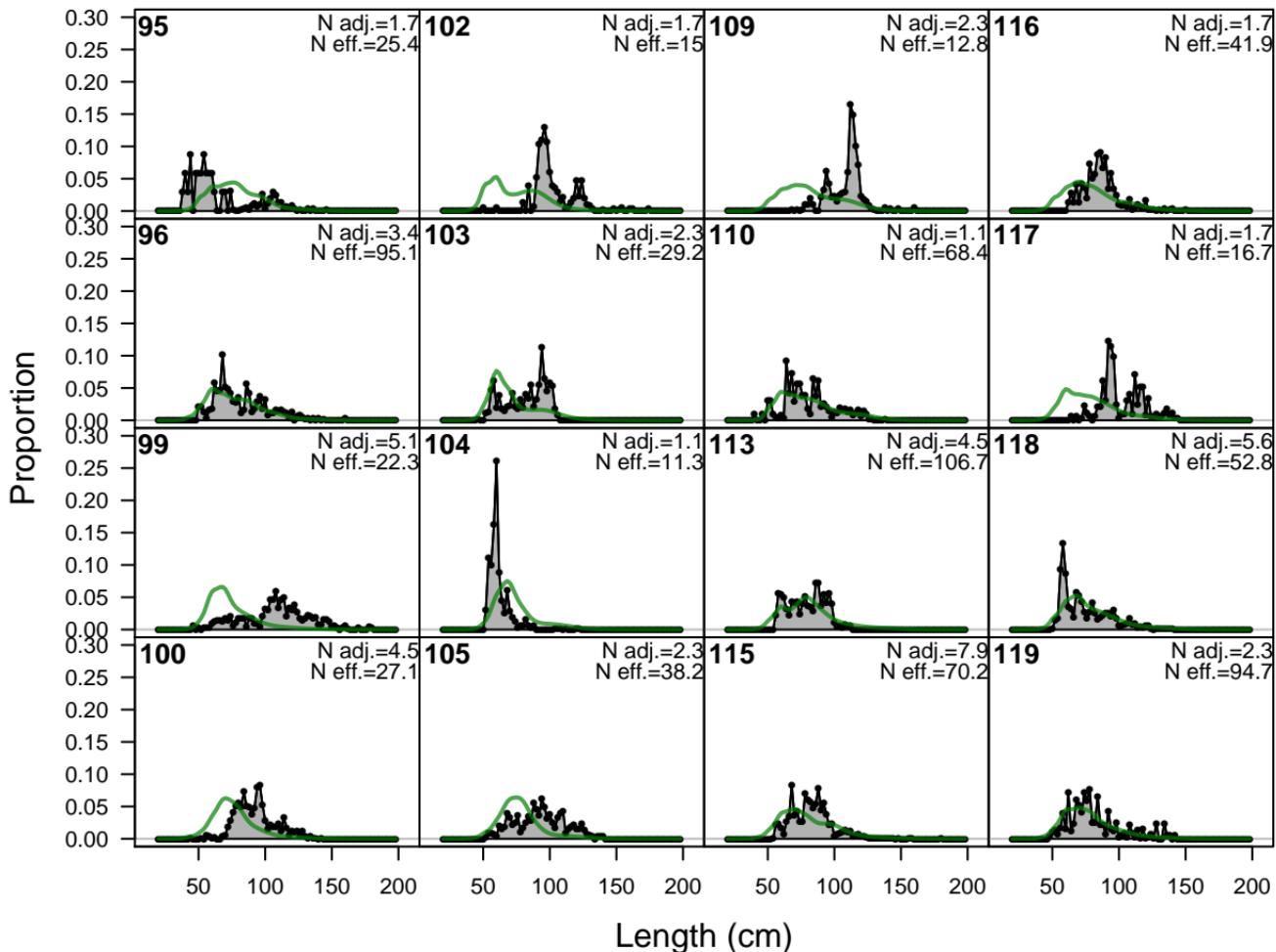
F16-DEL_NE (whole catch)

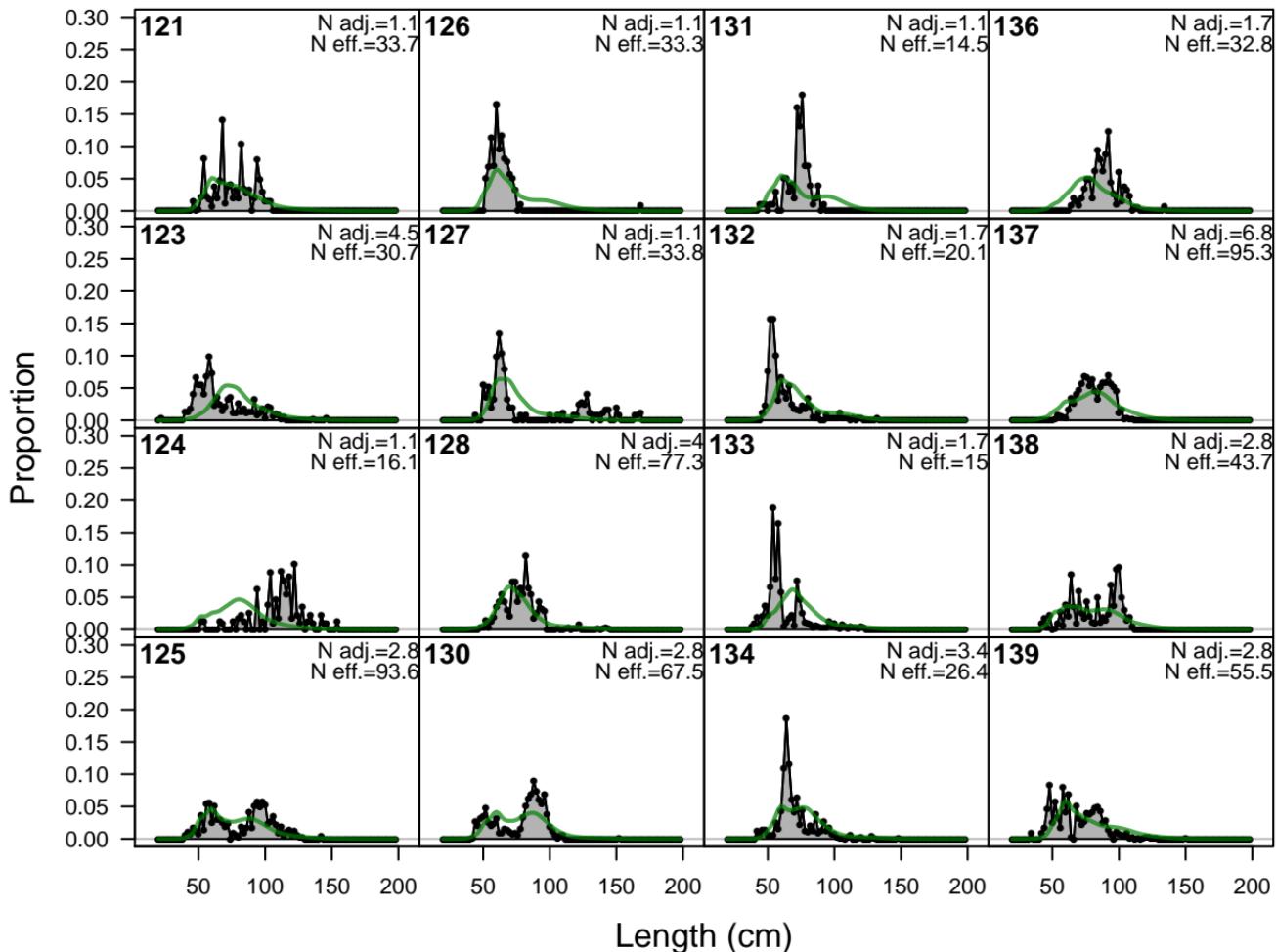


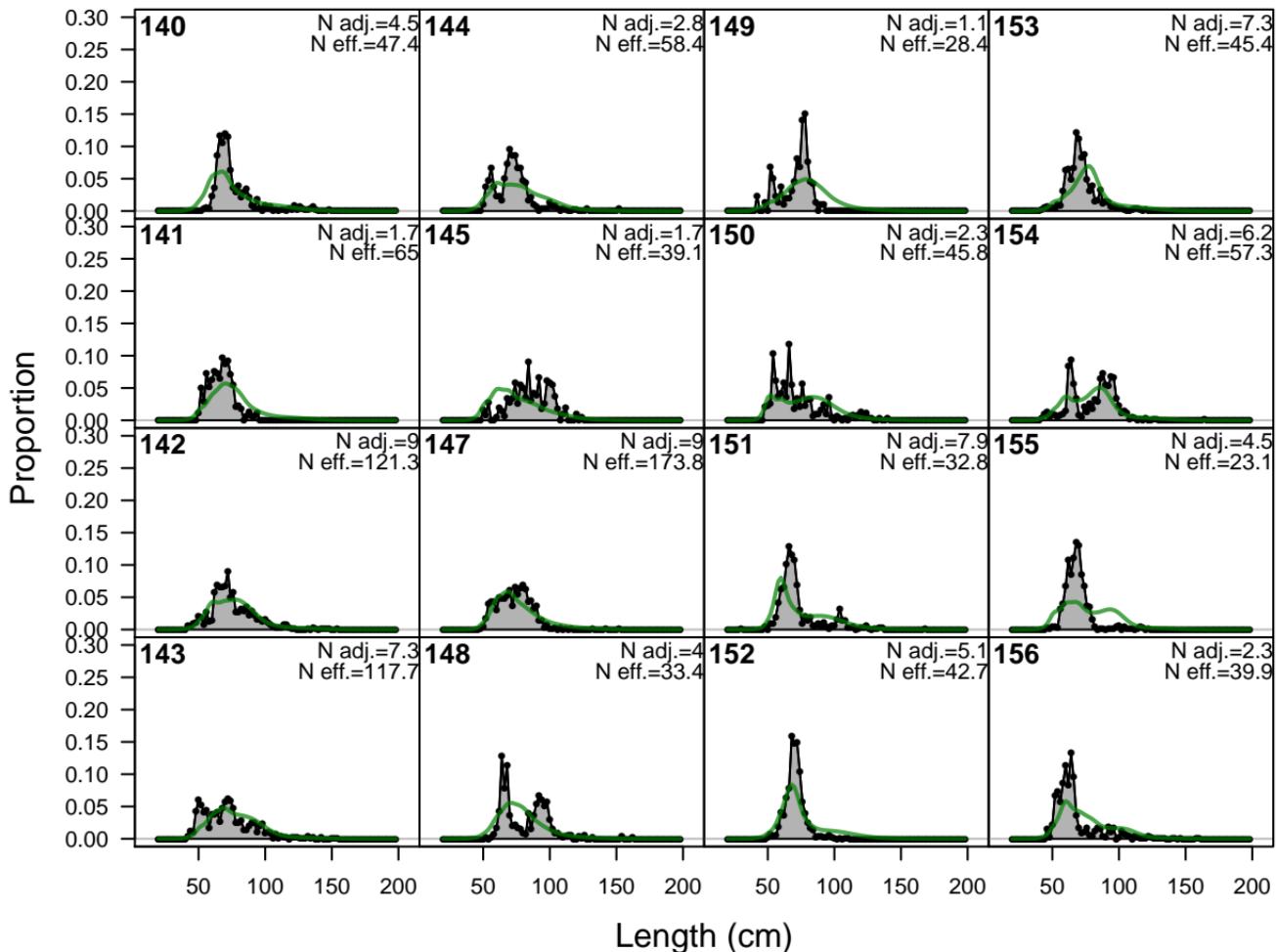


Proportion

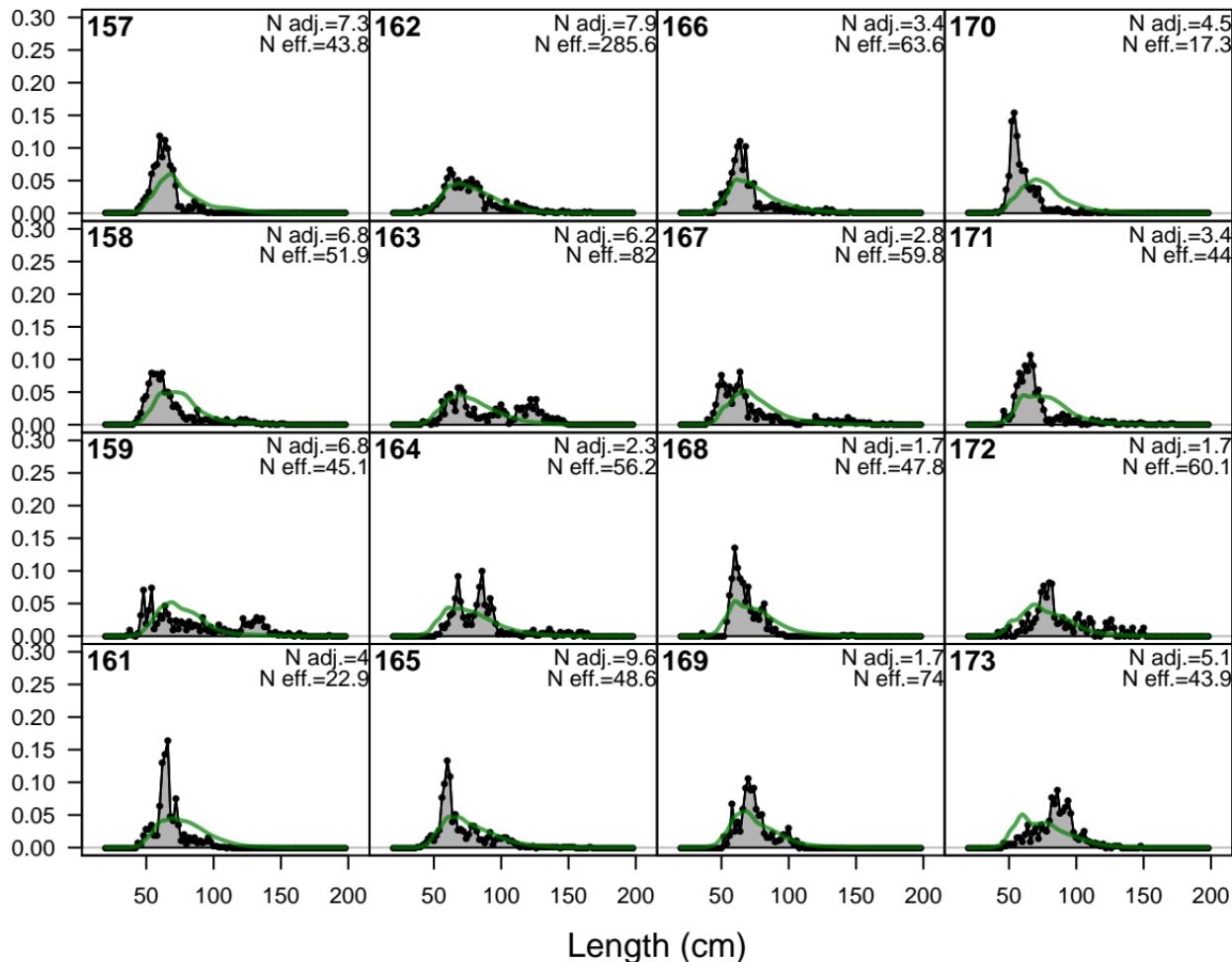




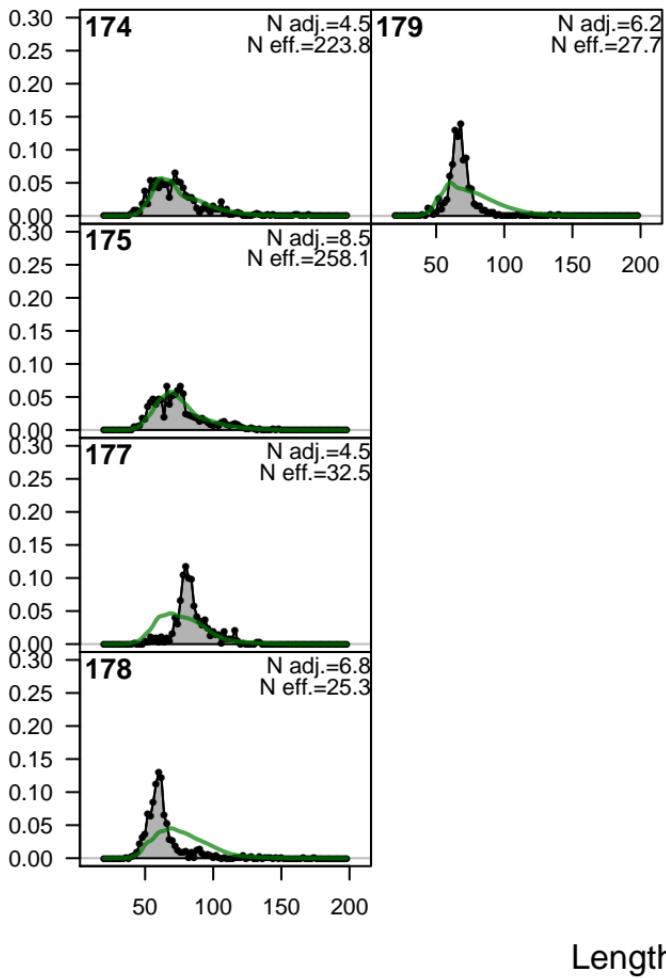


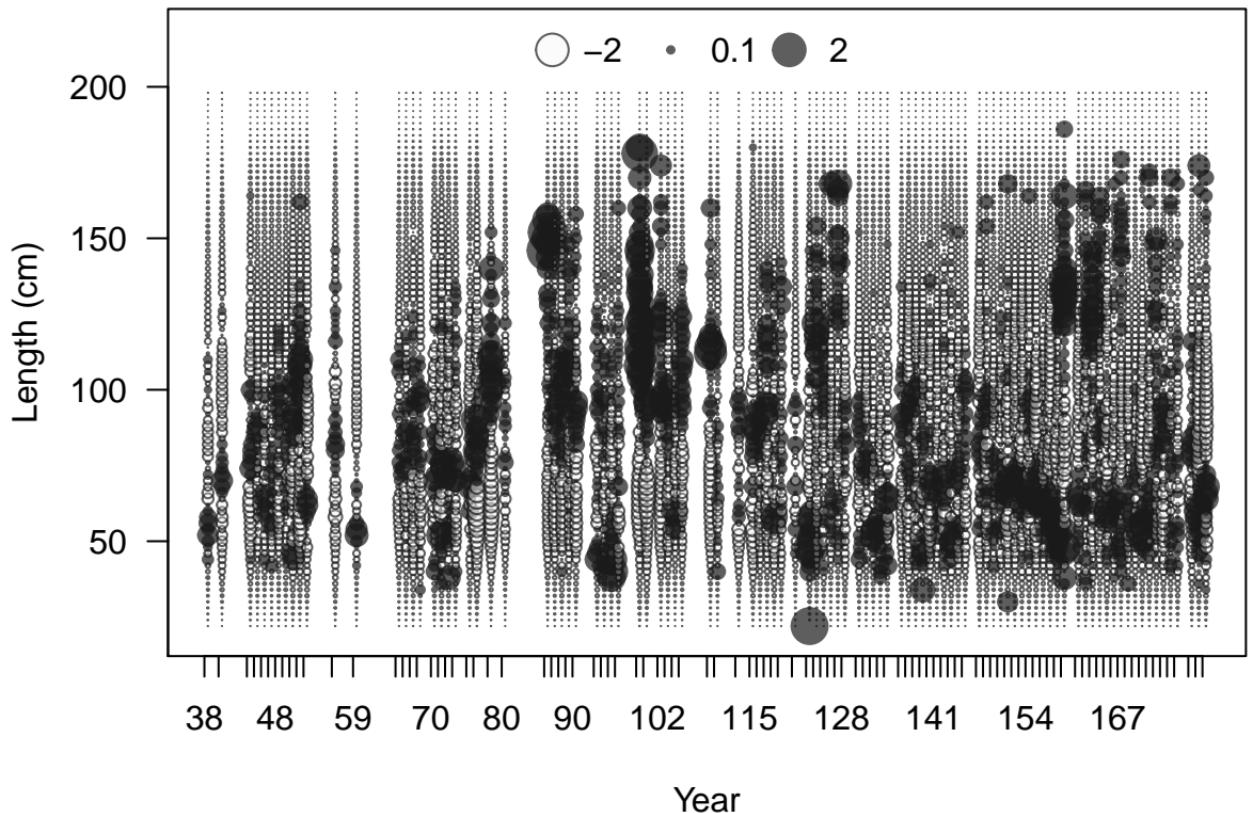


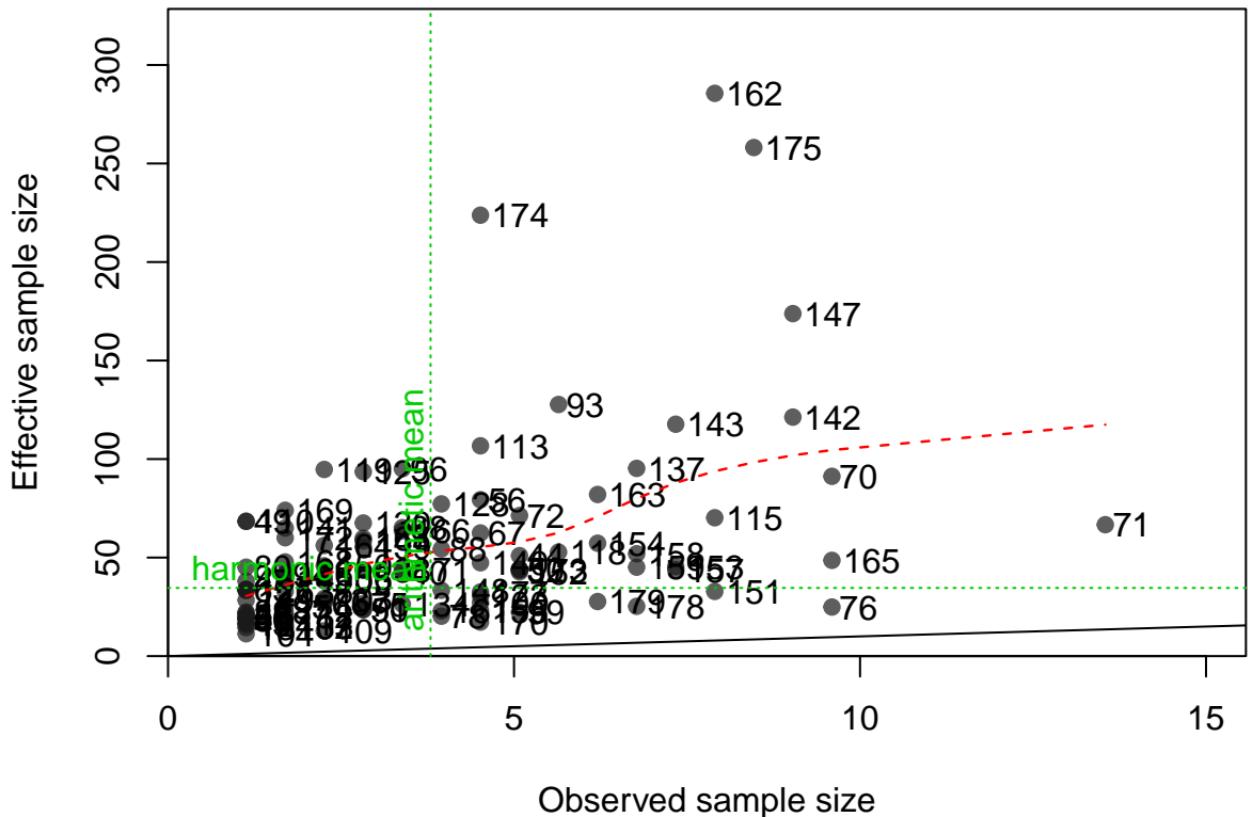
Proportion



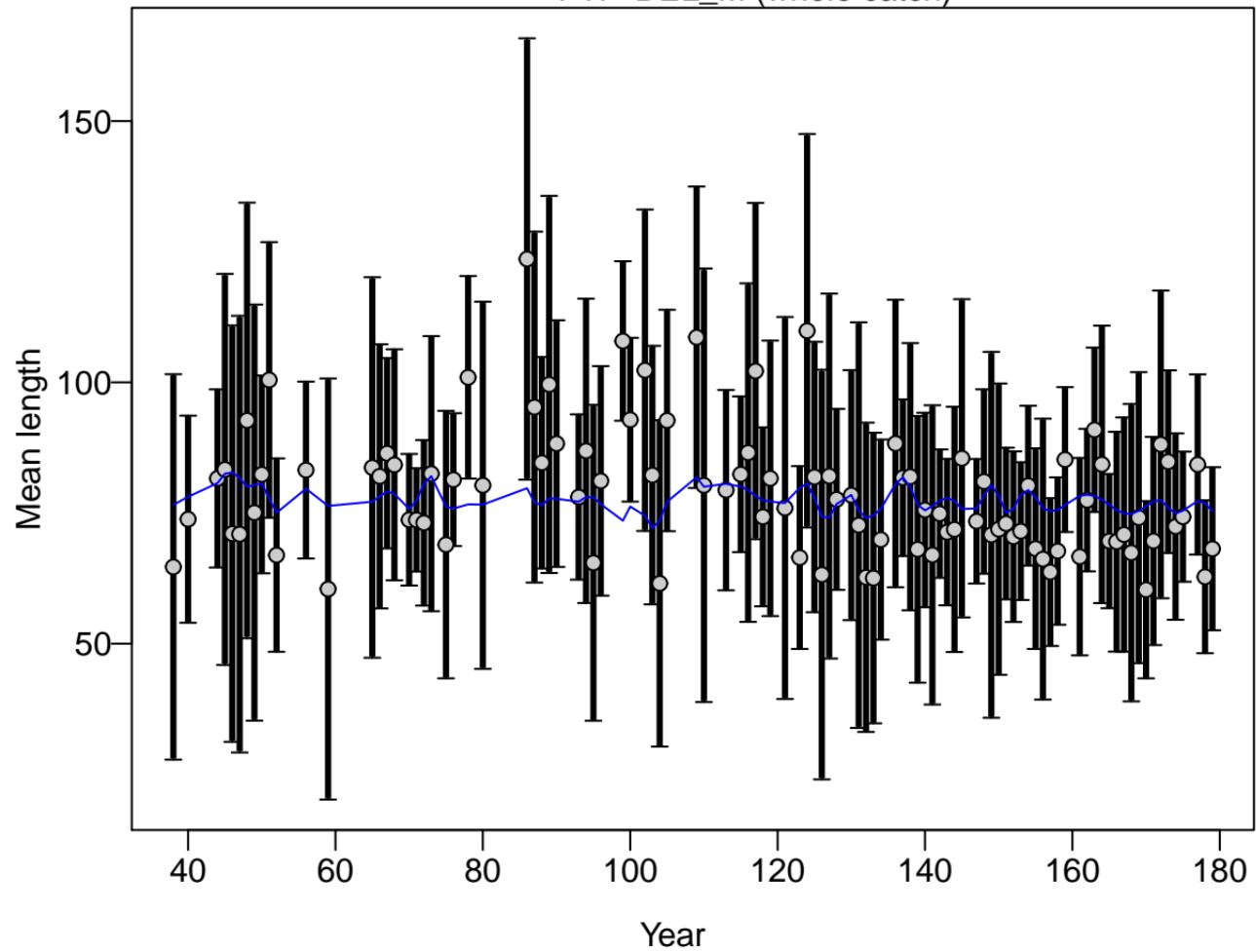
Proportion



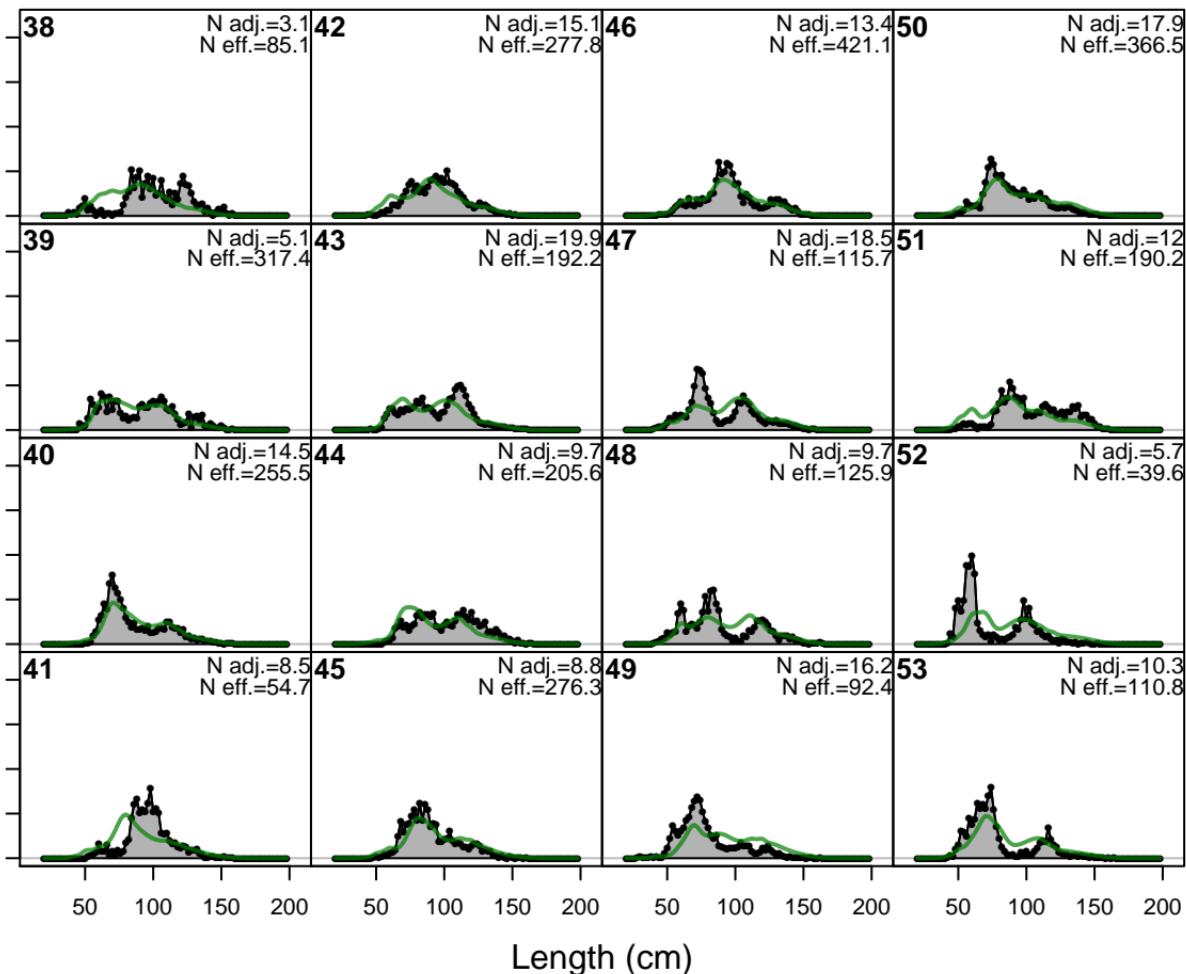




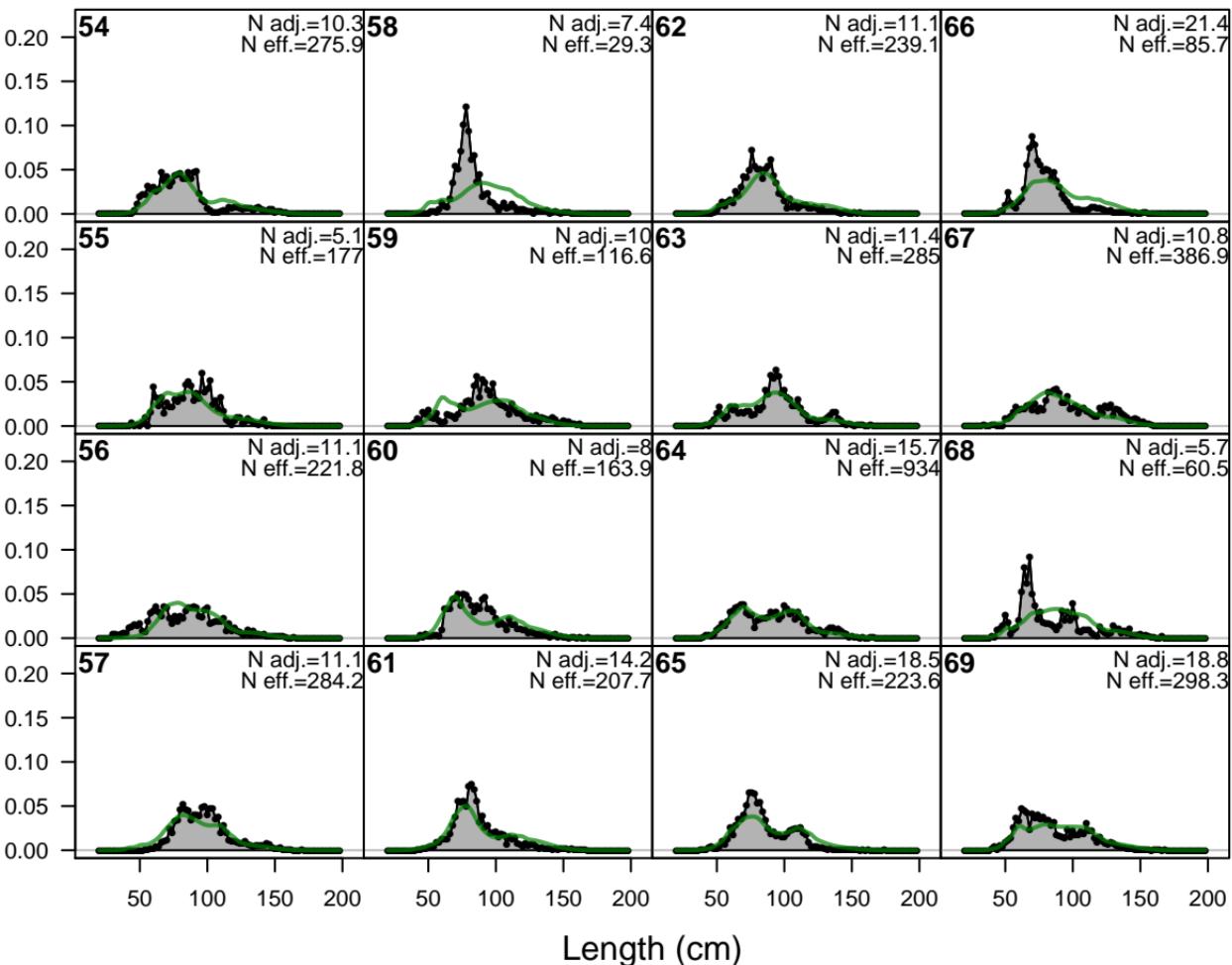
F17-DEL_M (whole catch)



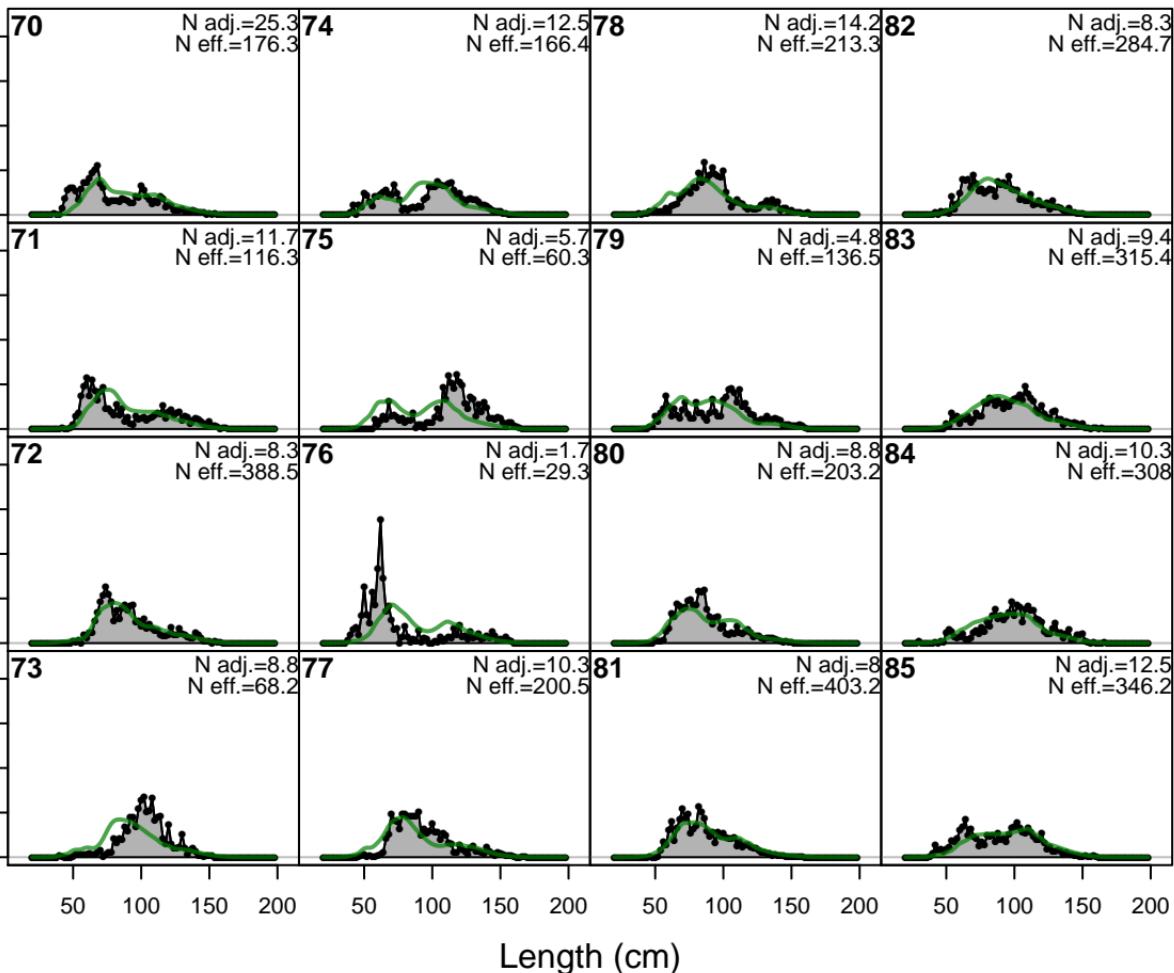
Proportion



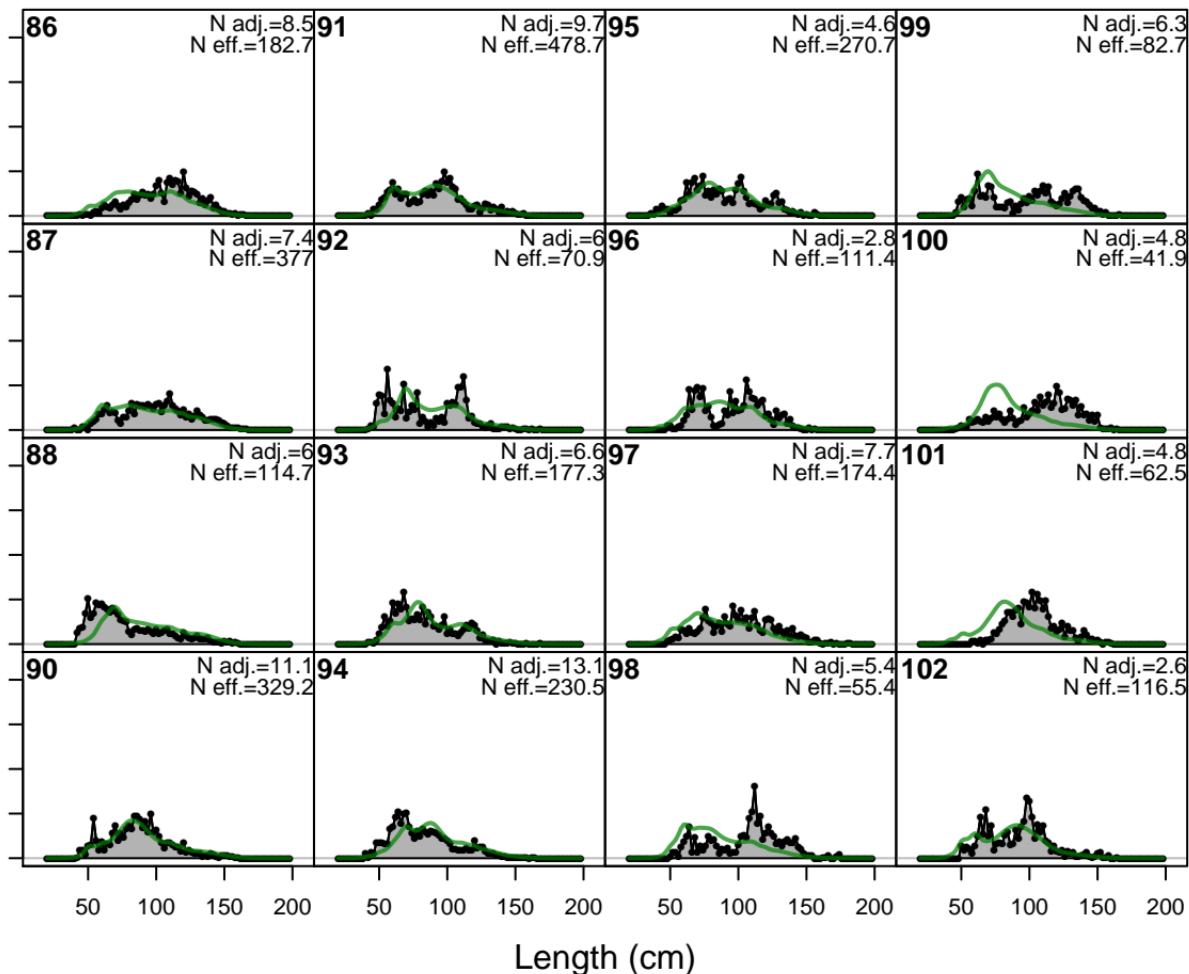
Proportion



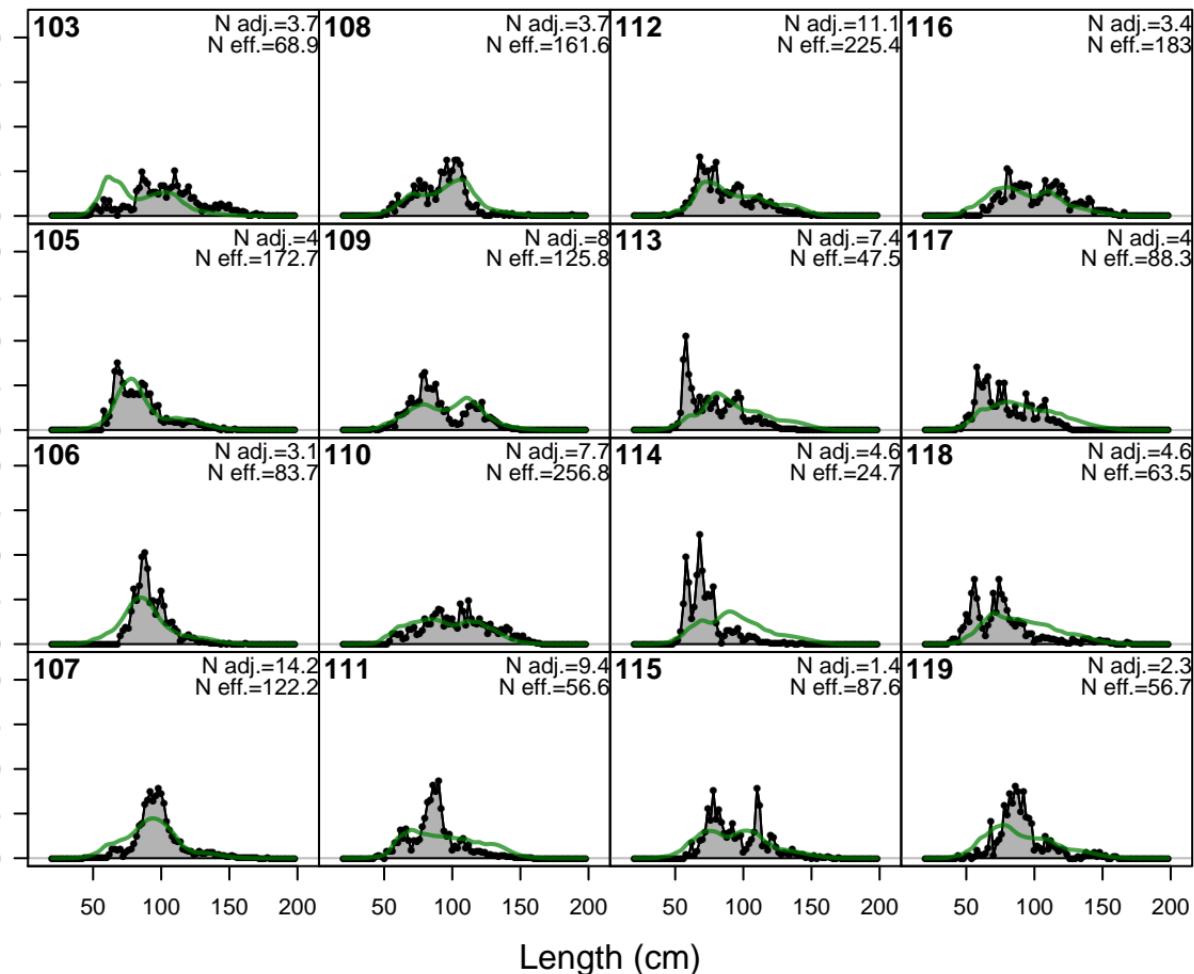
Proportion



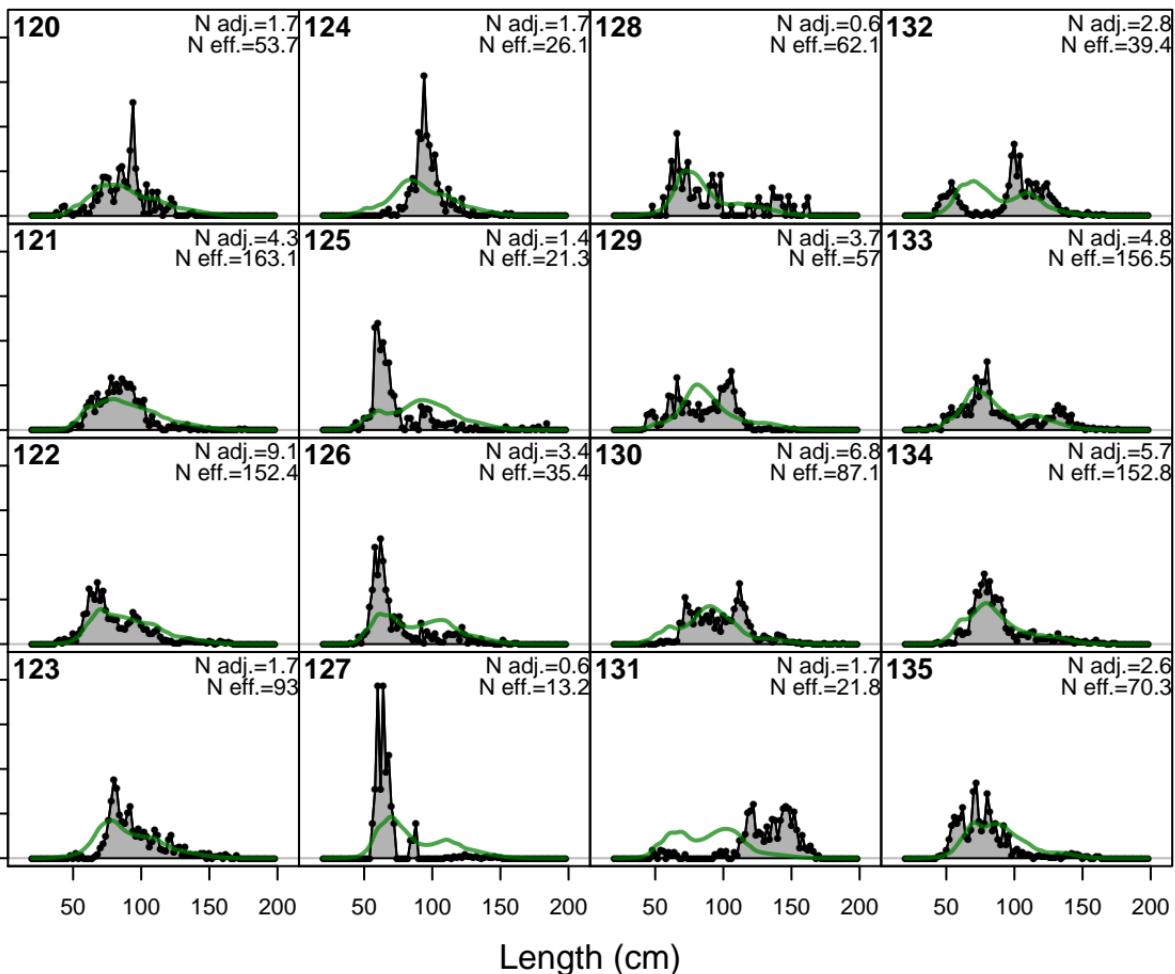
Proportion



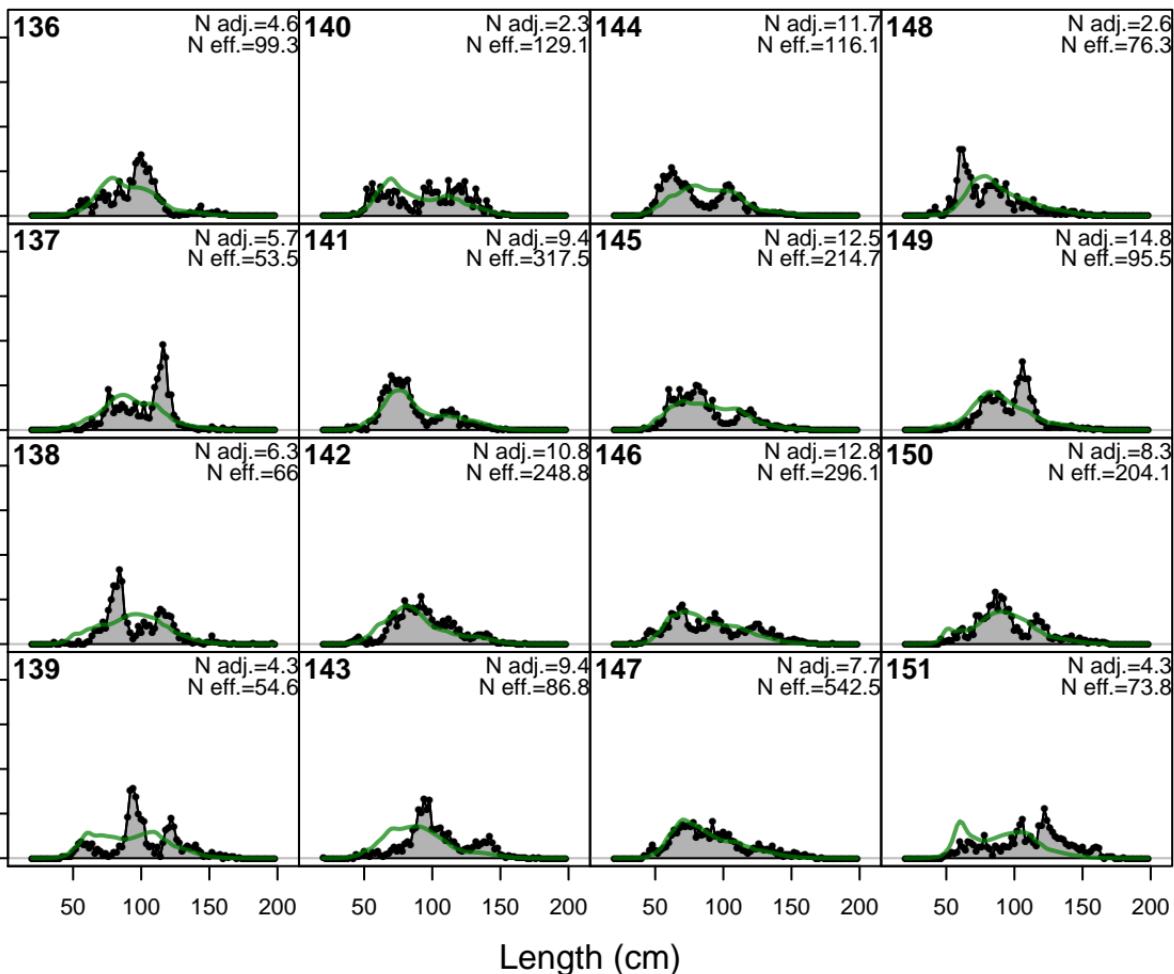
Proportion



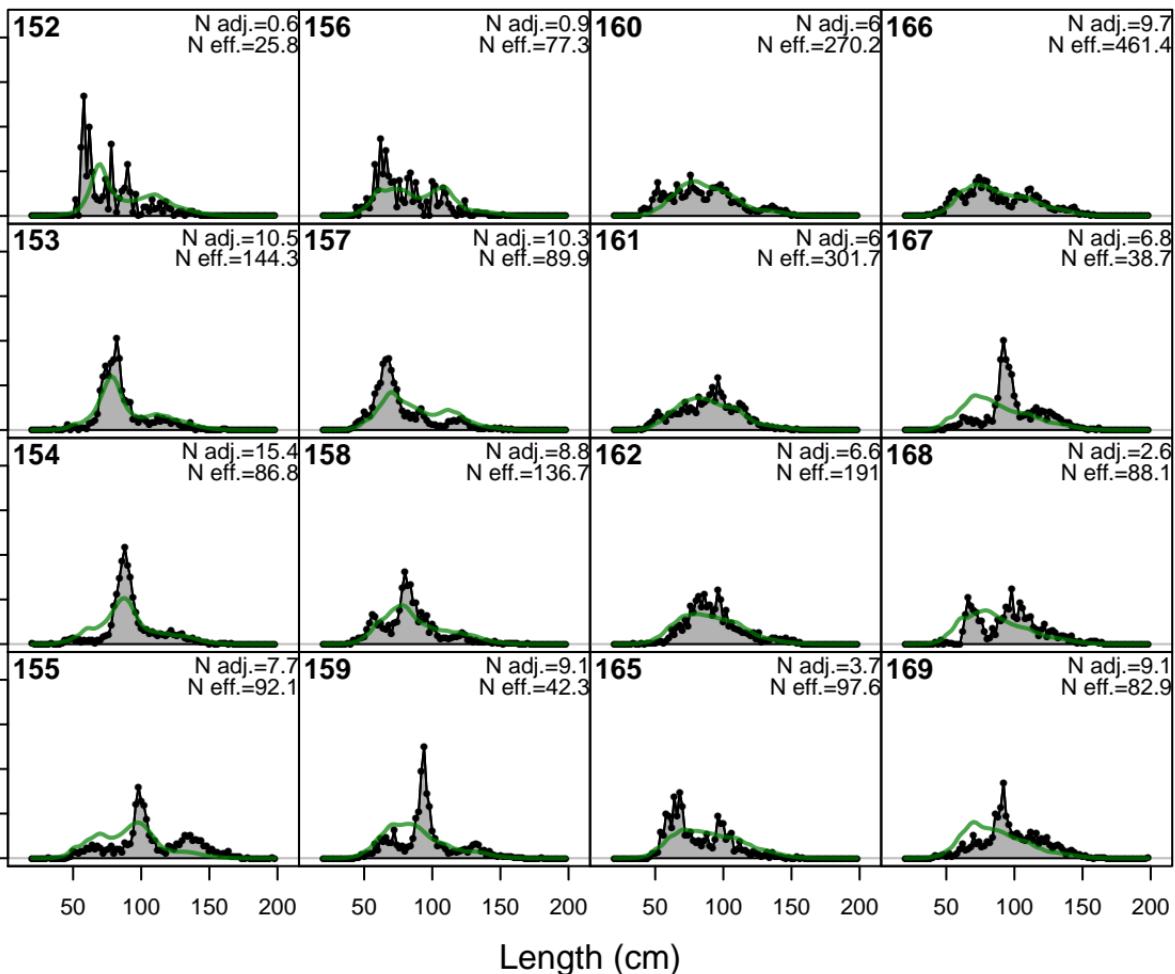
Proportion

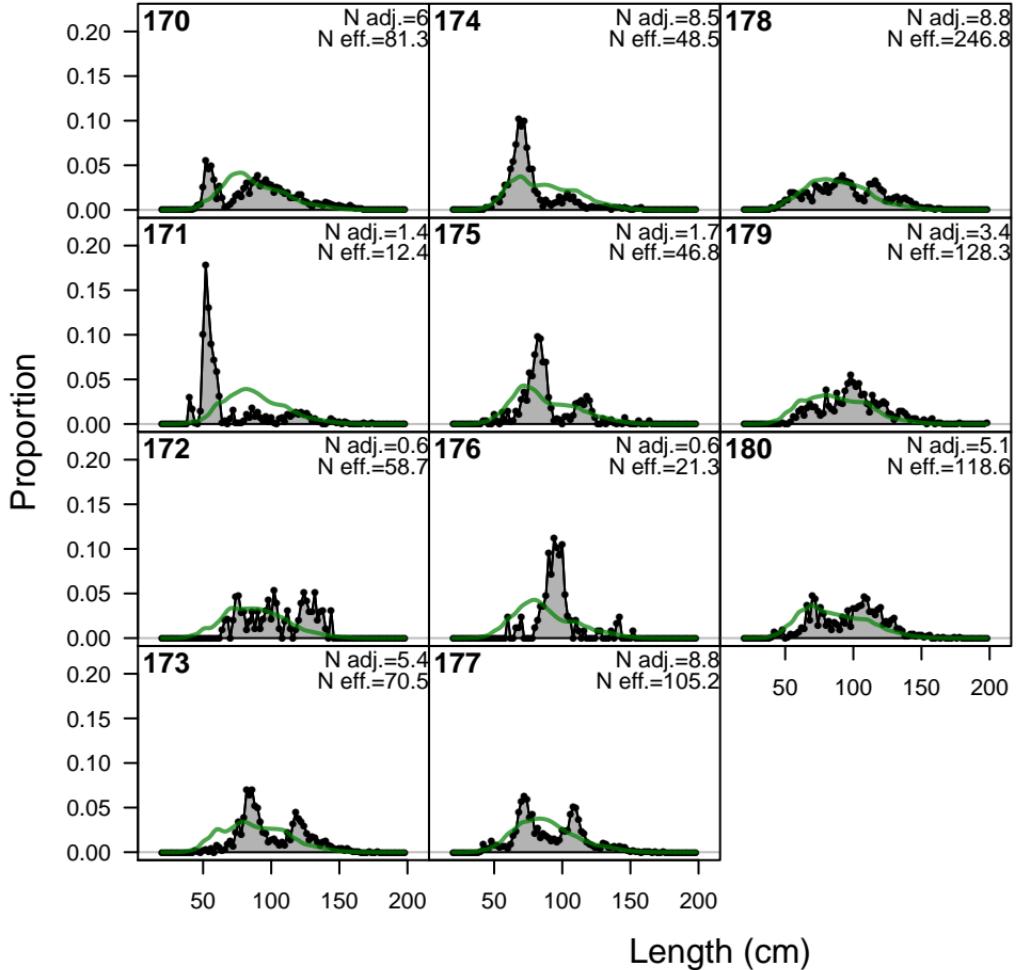


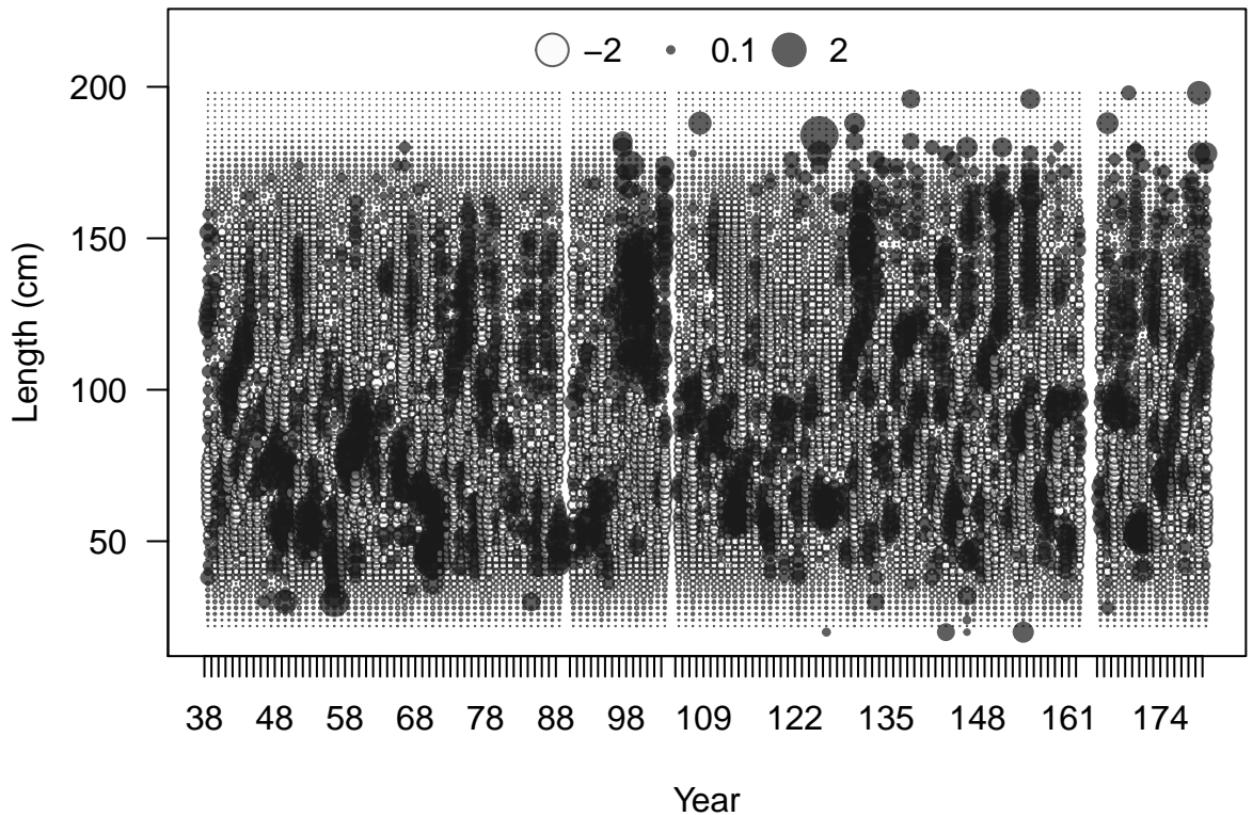
Proportion

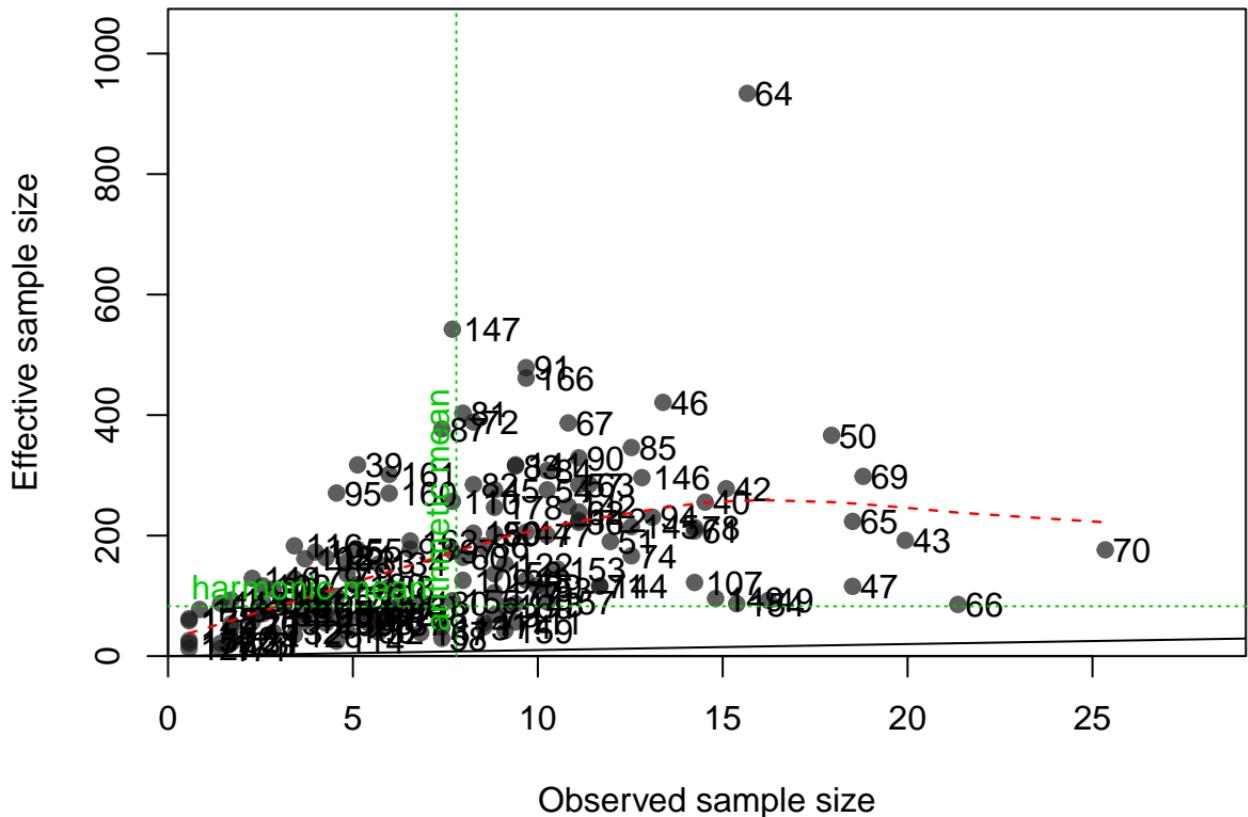


Proportion

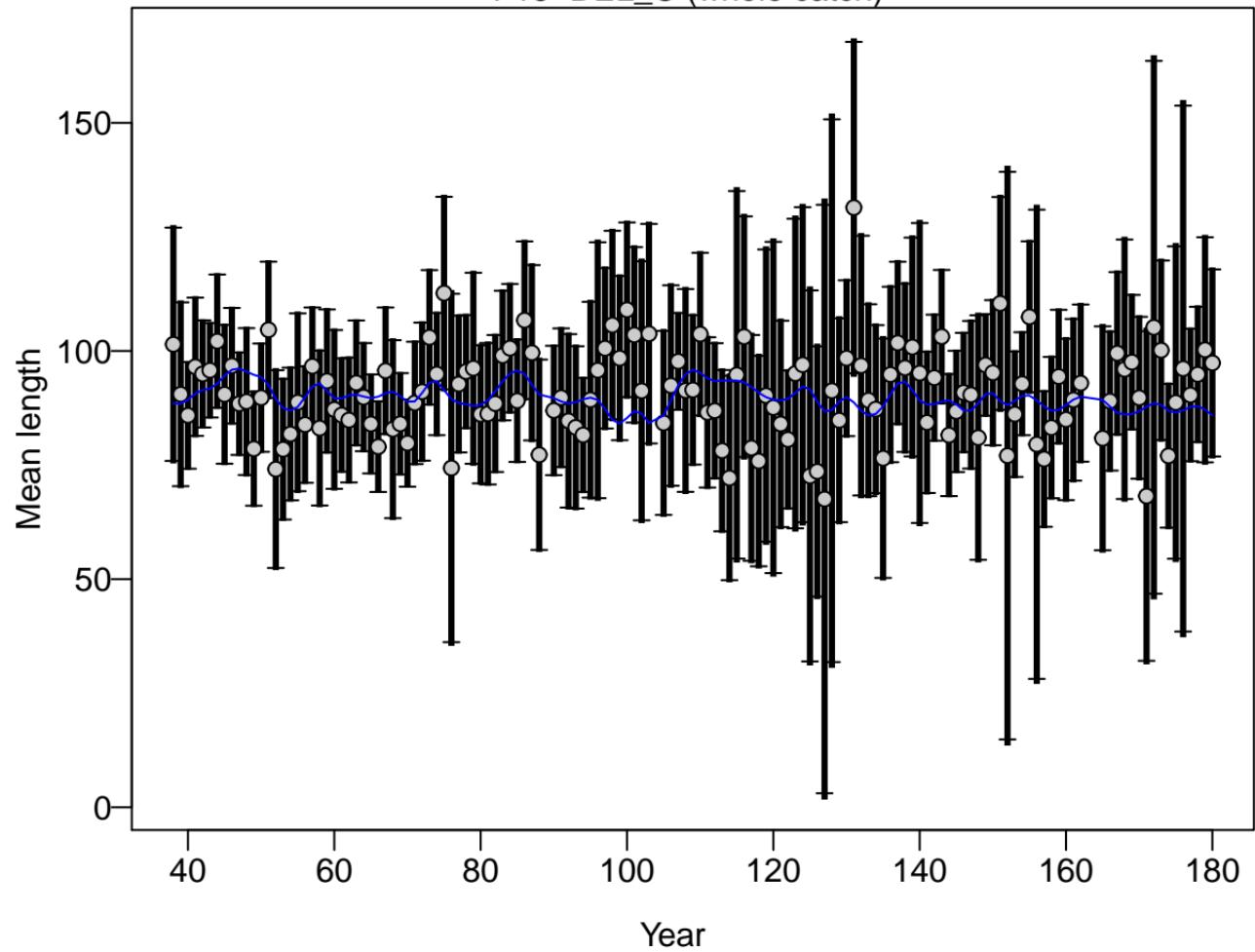




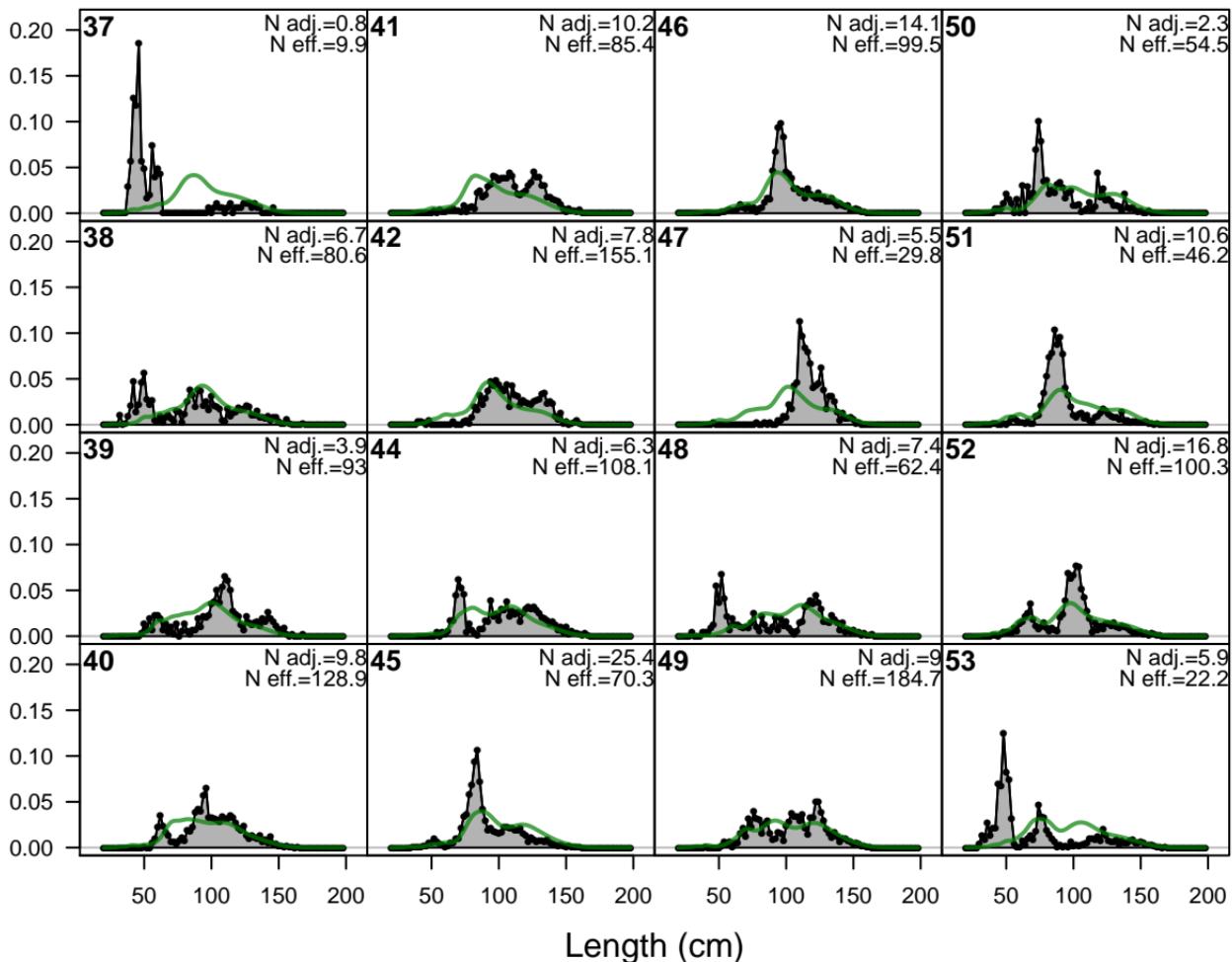




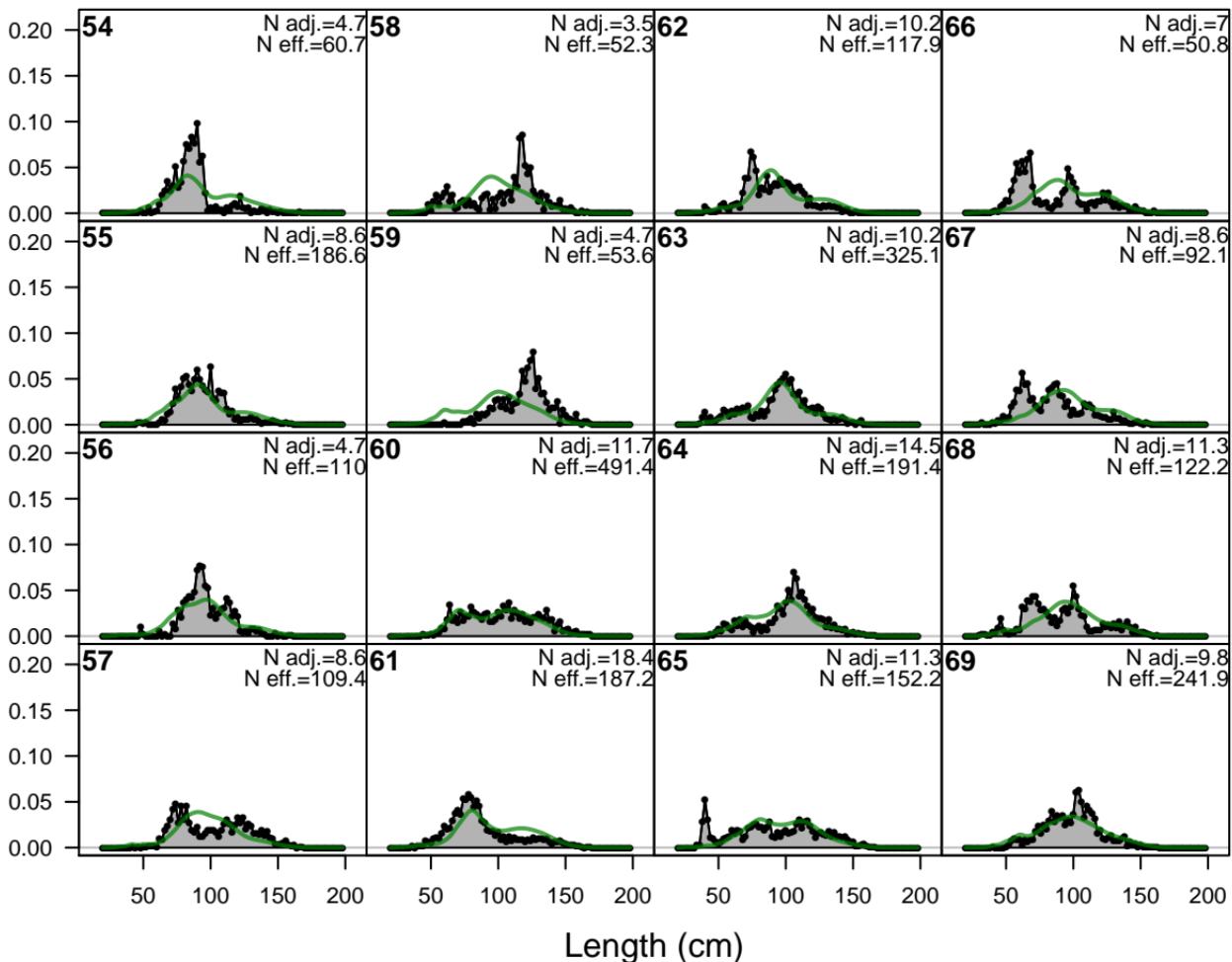
F18-DEL_C (whole catch)



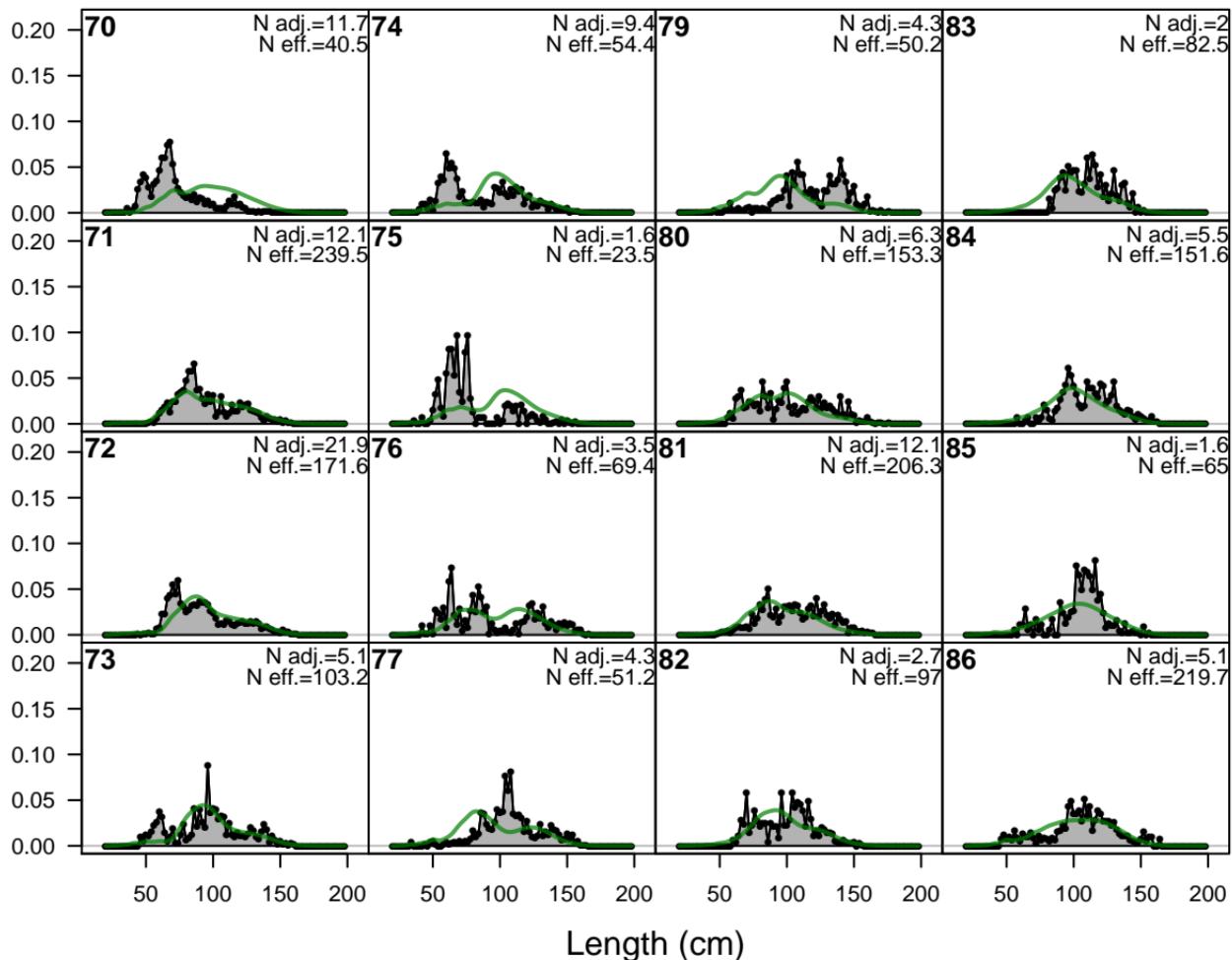
Proportion



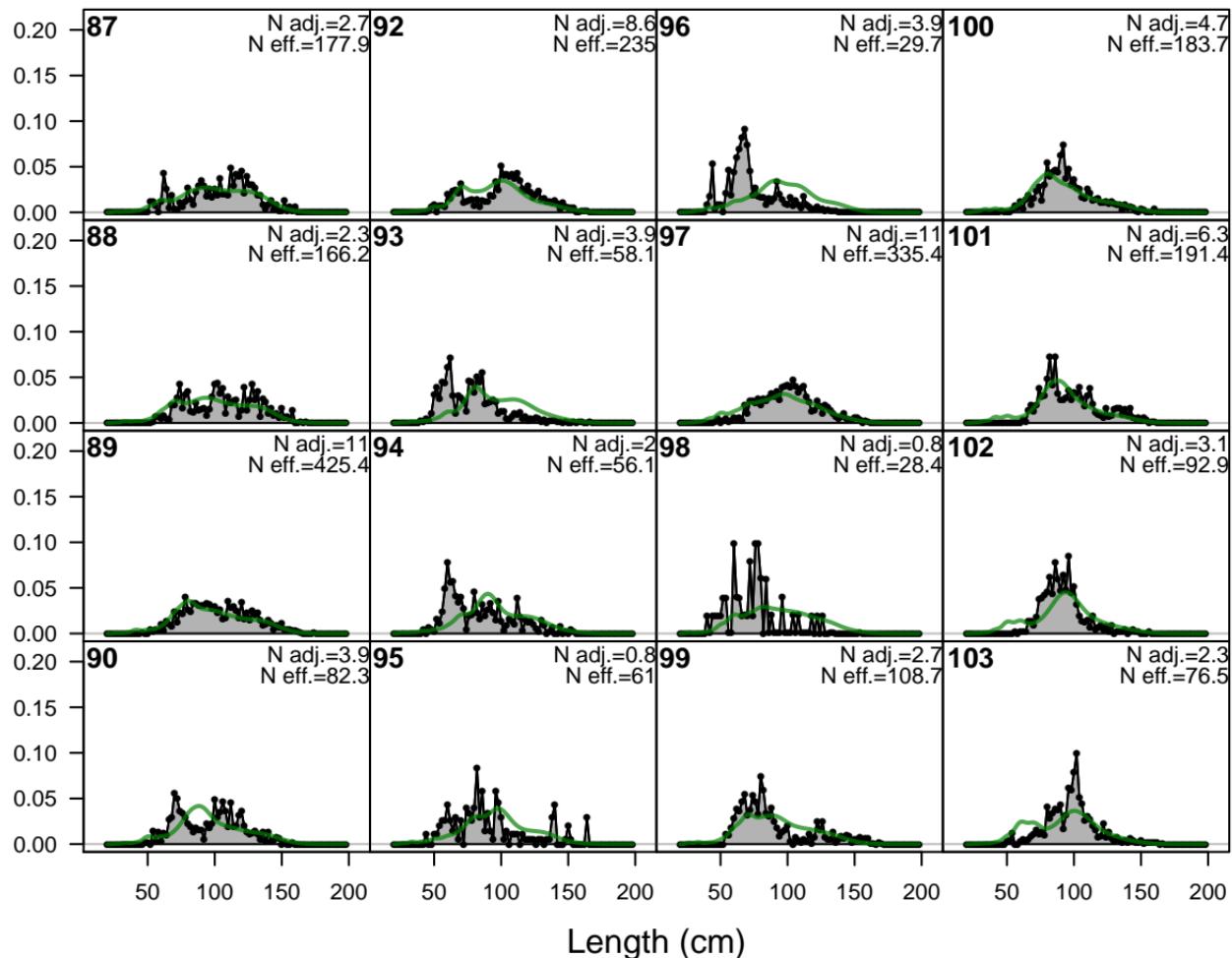
Proportion



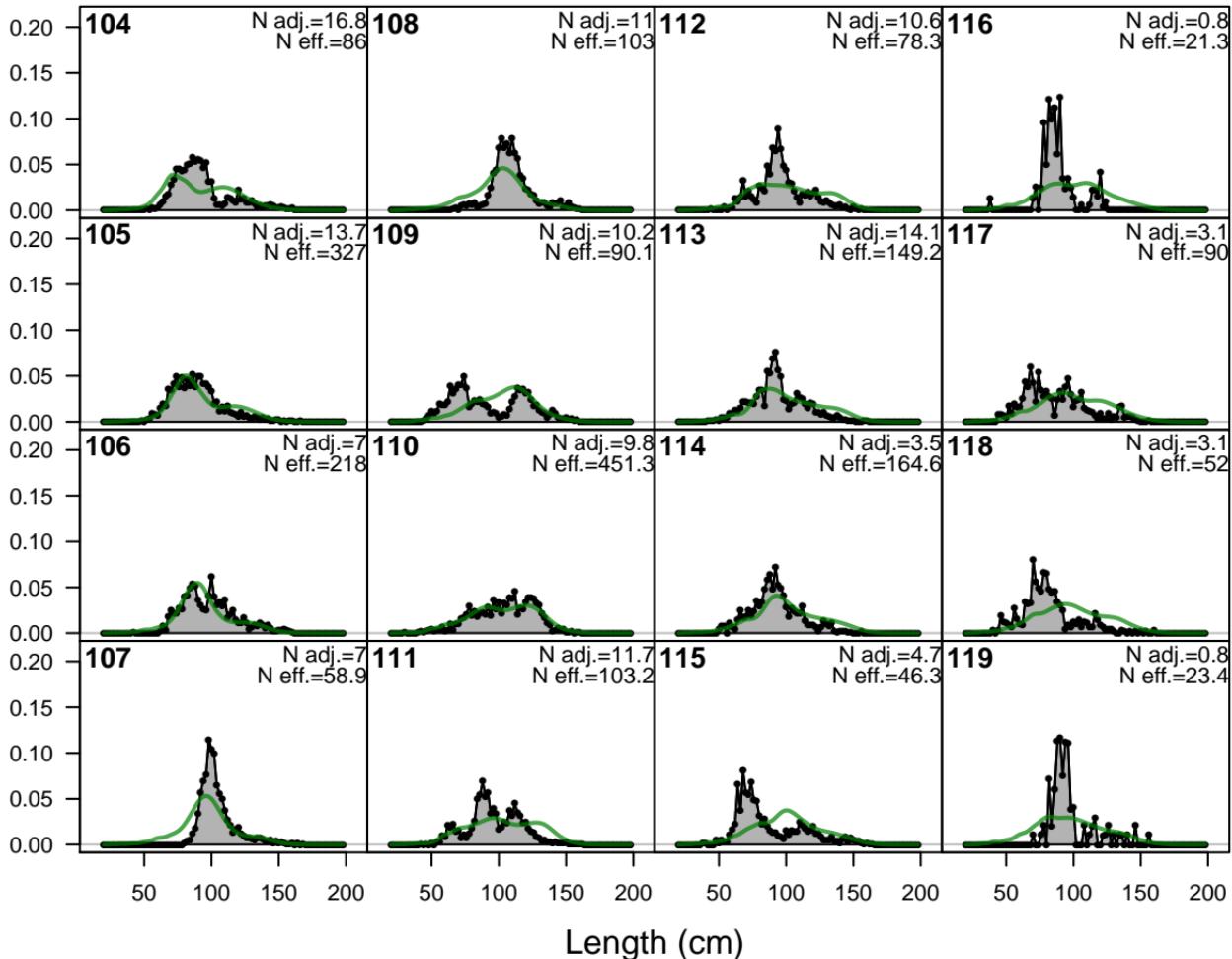
Proportion



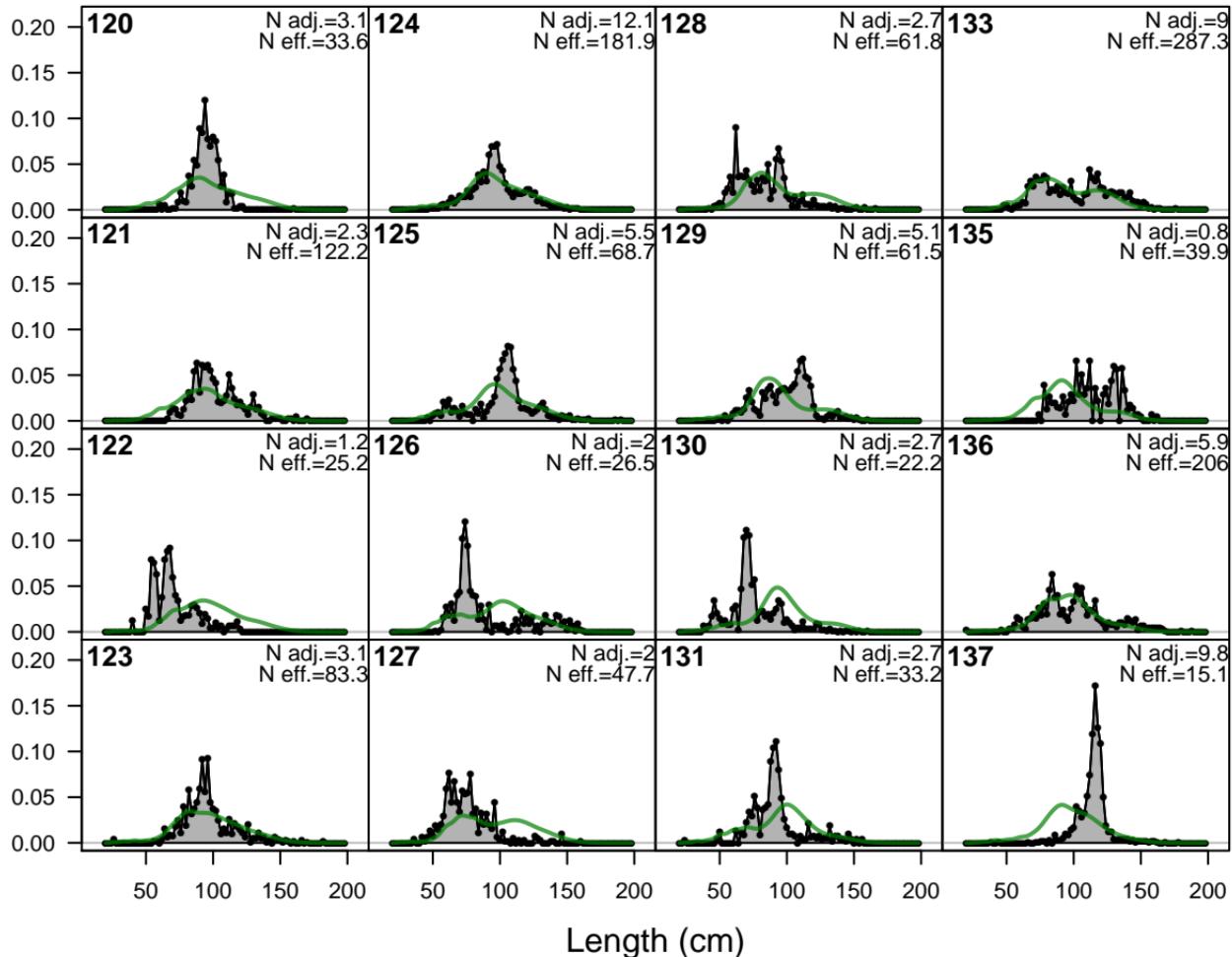
Proportion



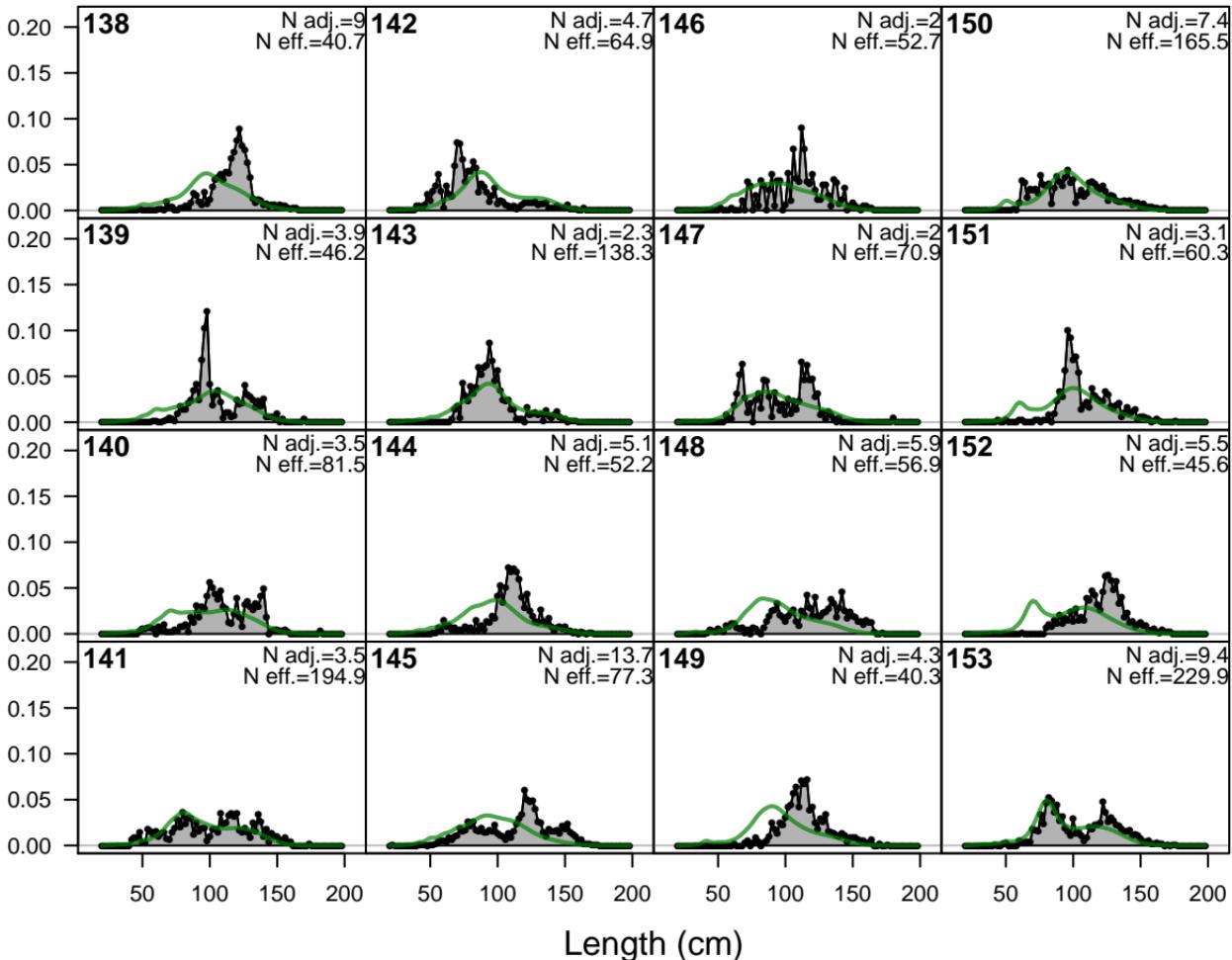
Proportion



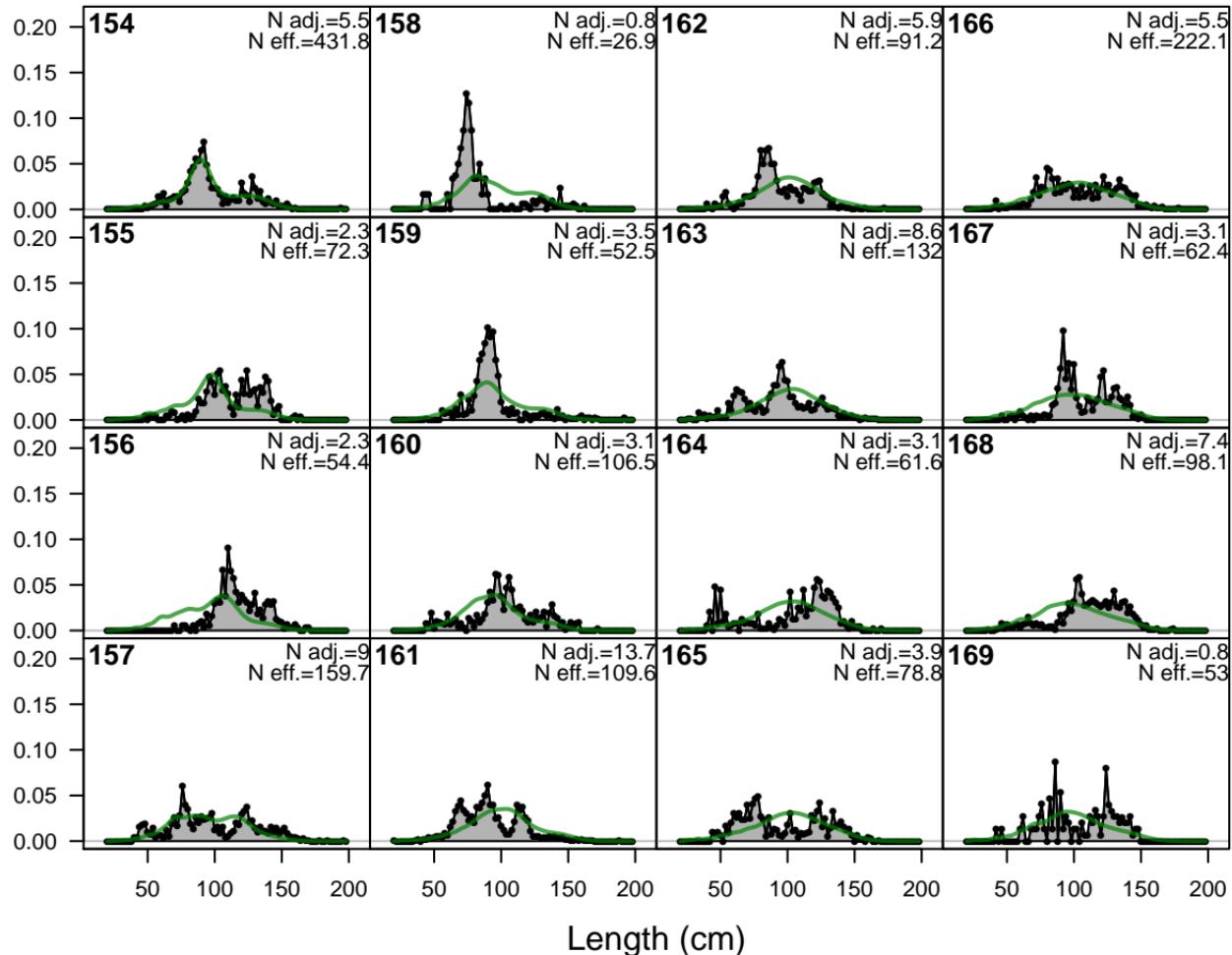
Proportion

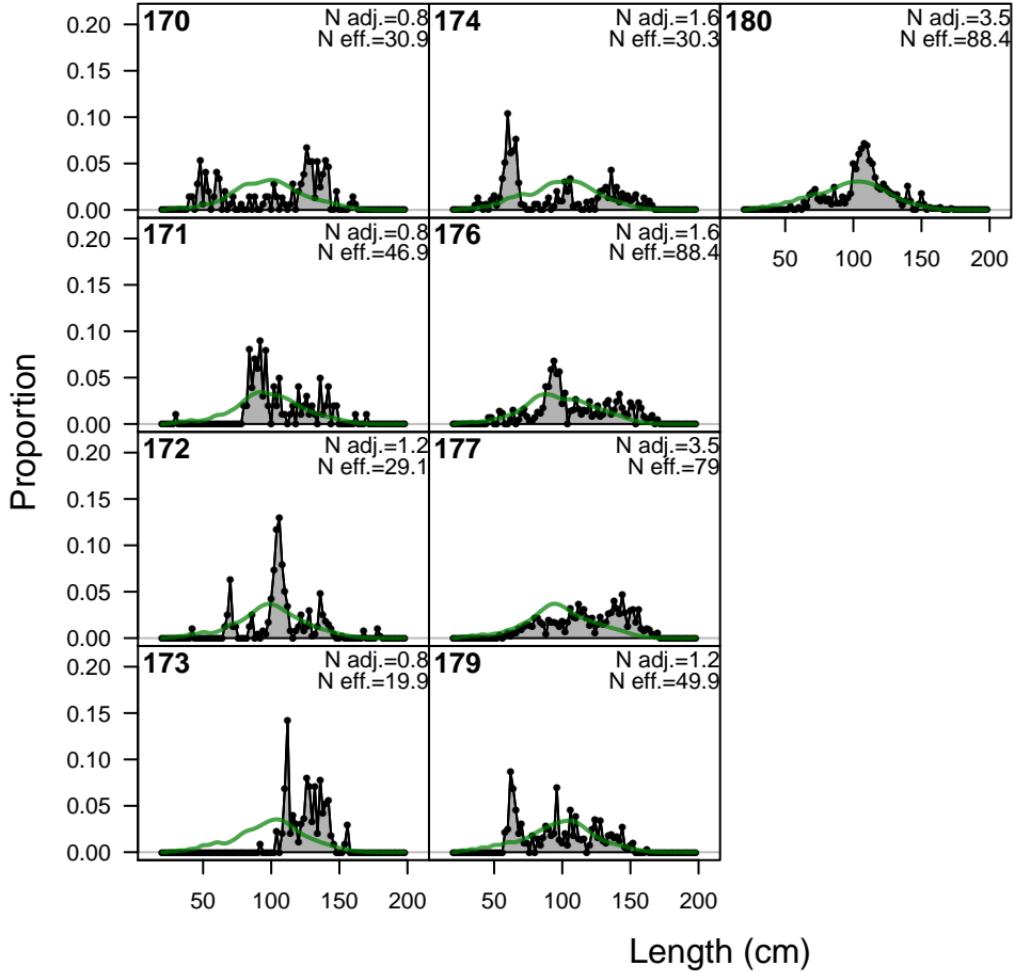


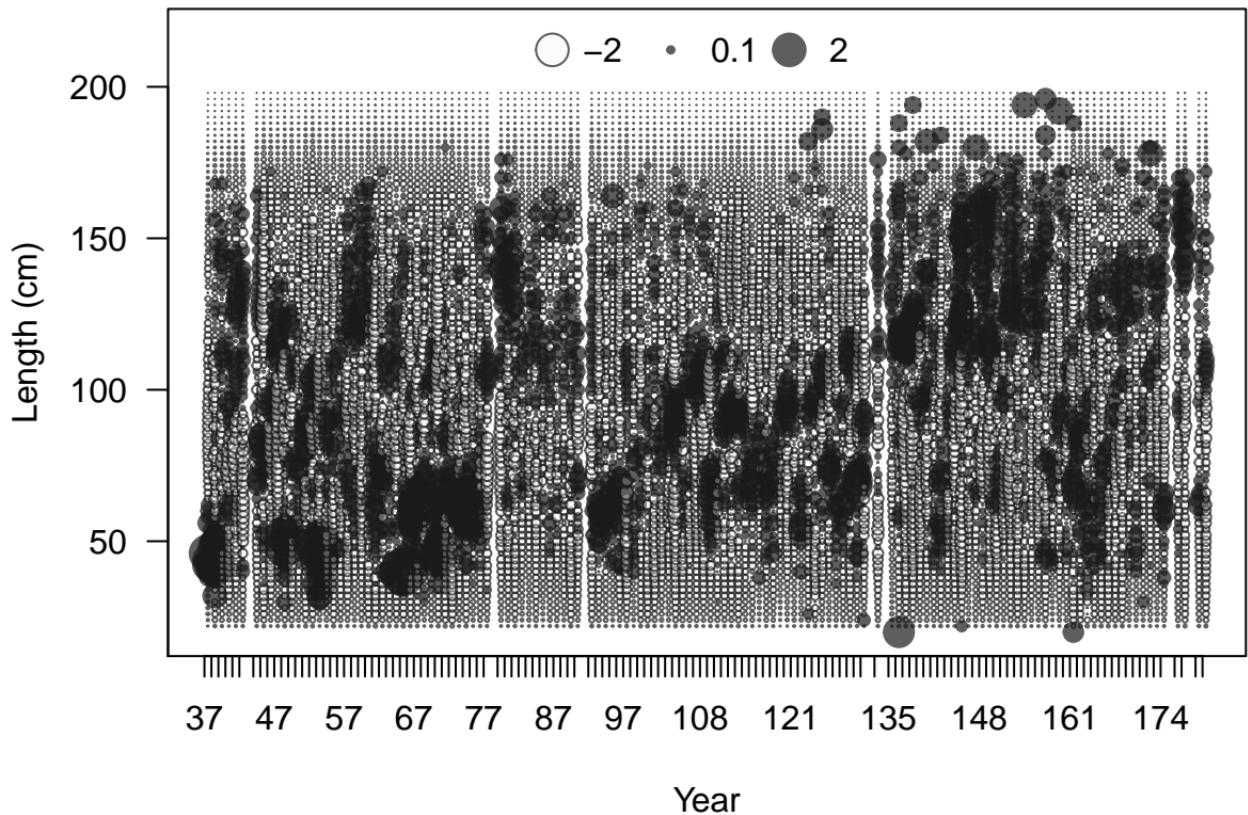
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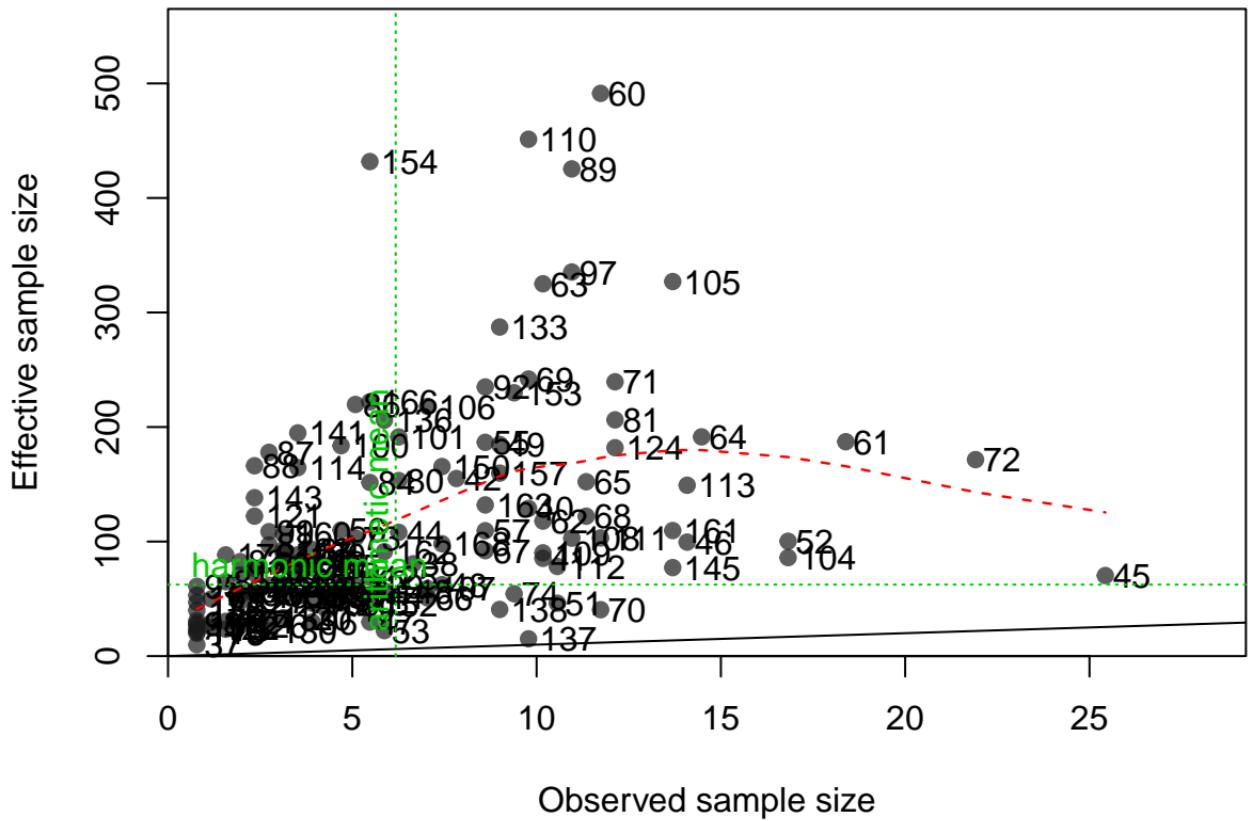


Proportion

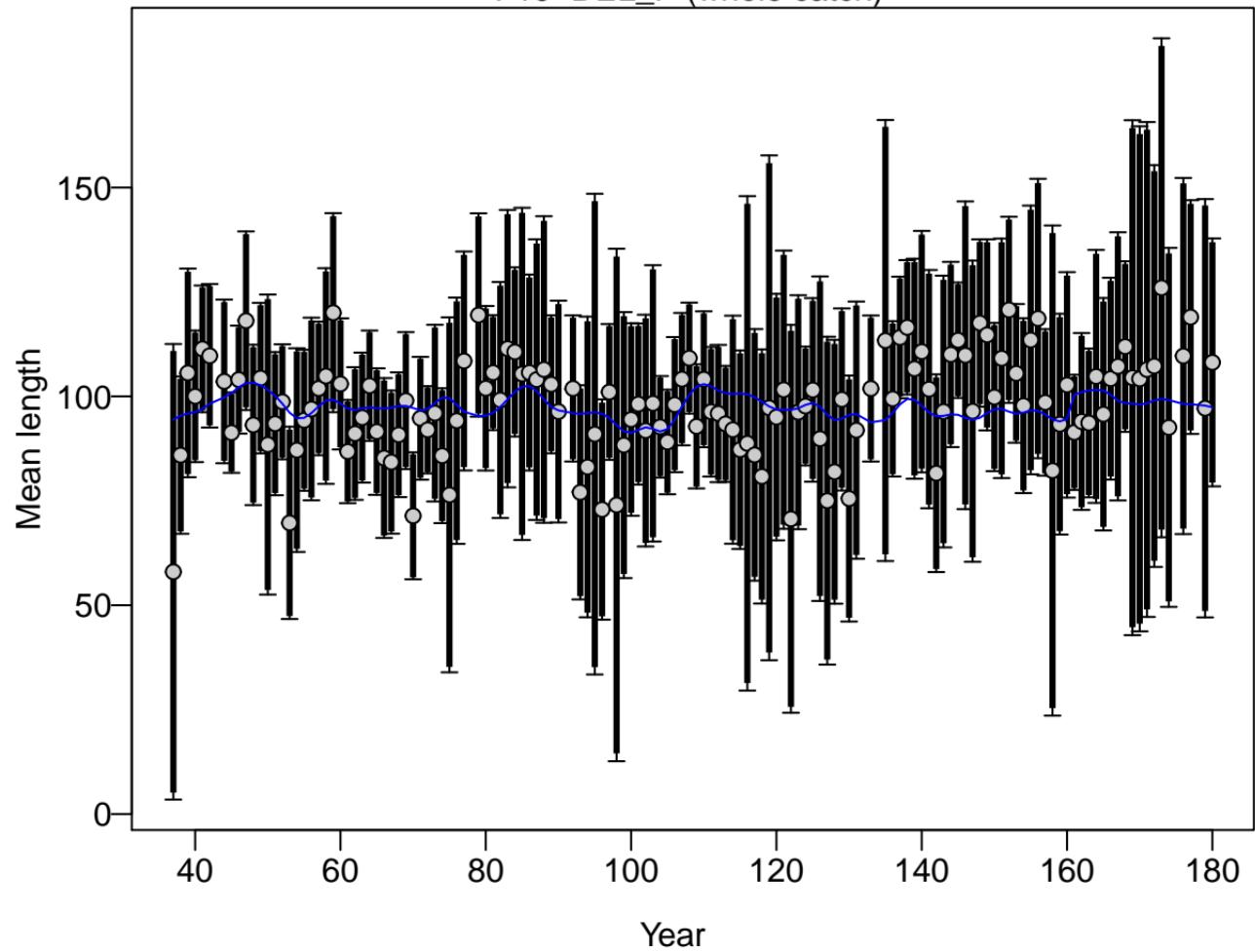




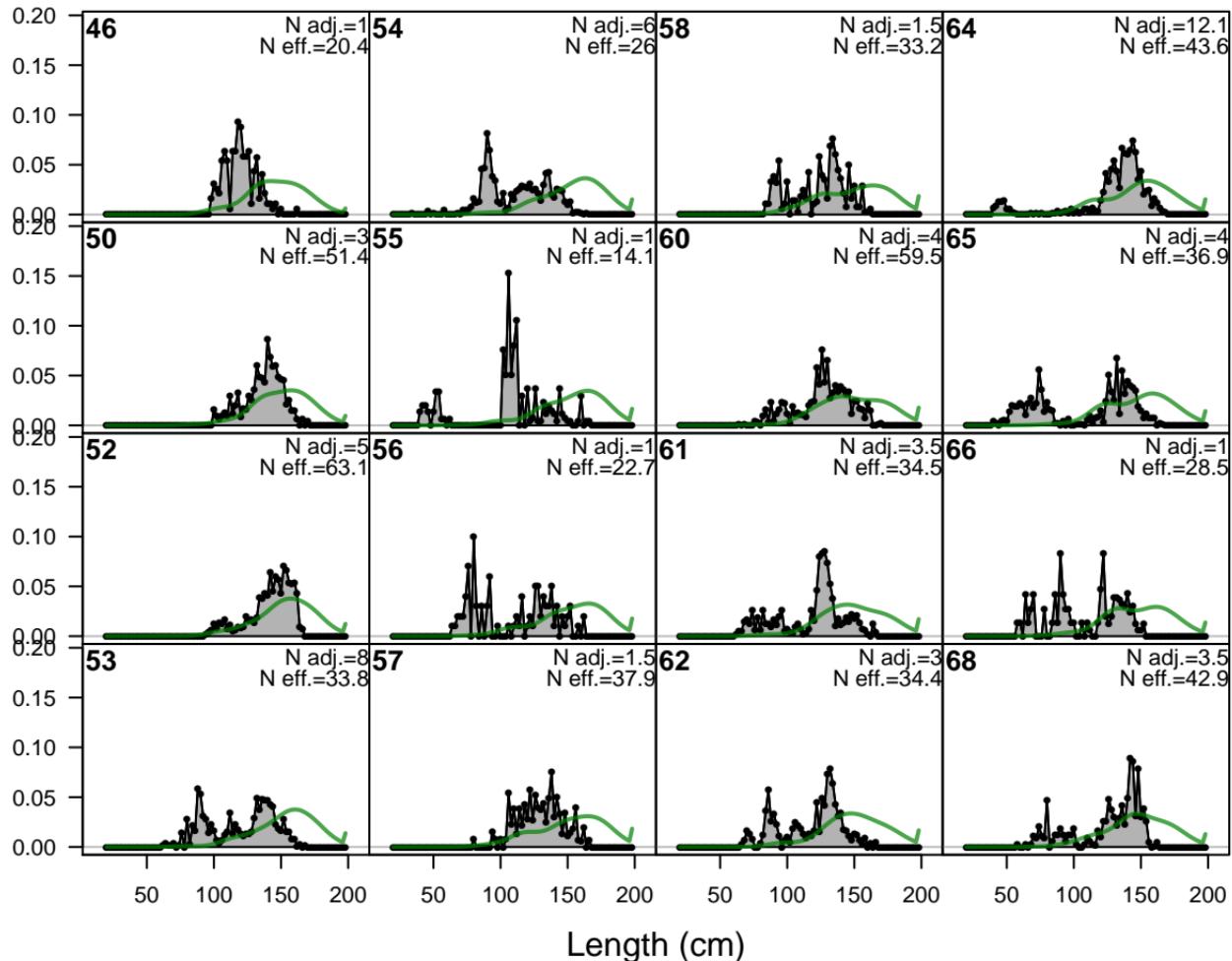


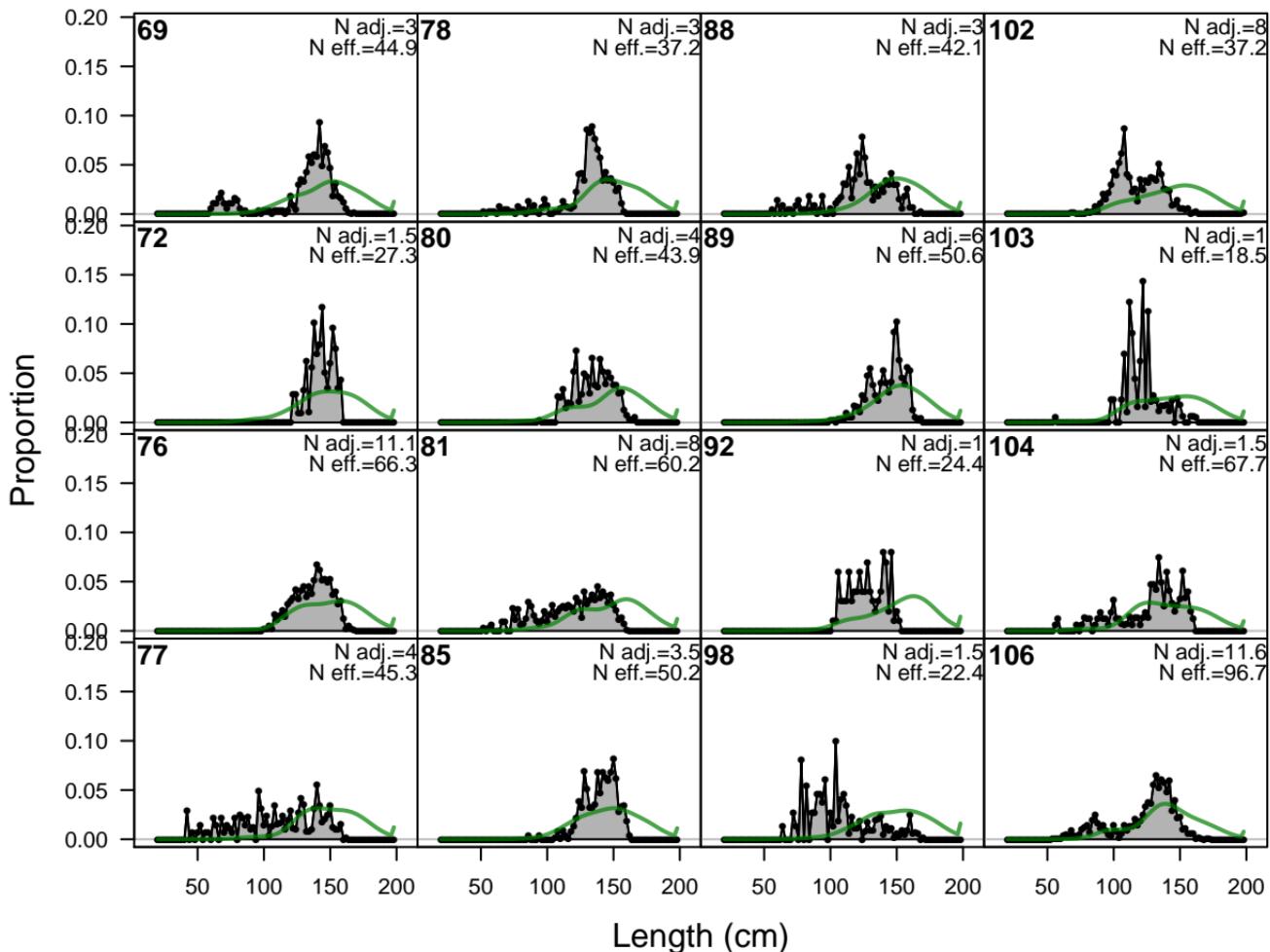


F19-DEL_P (whole catch)

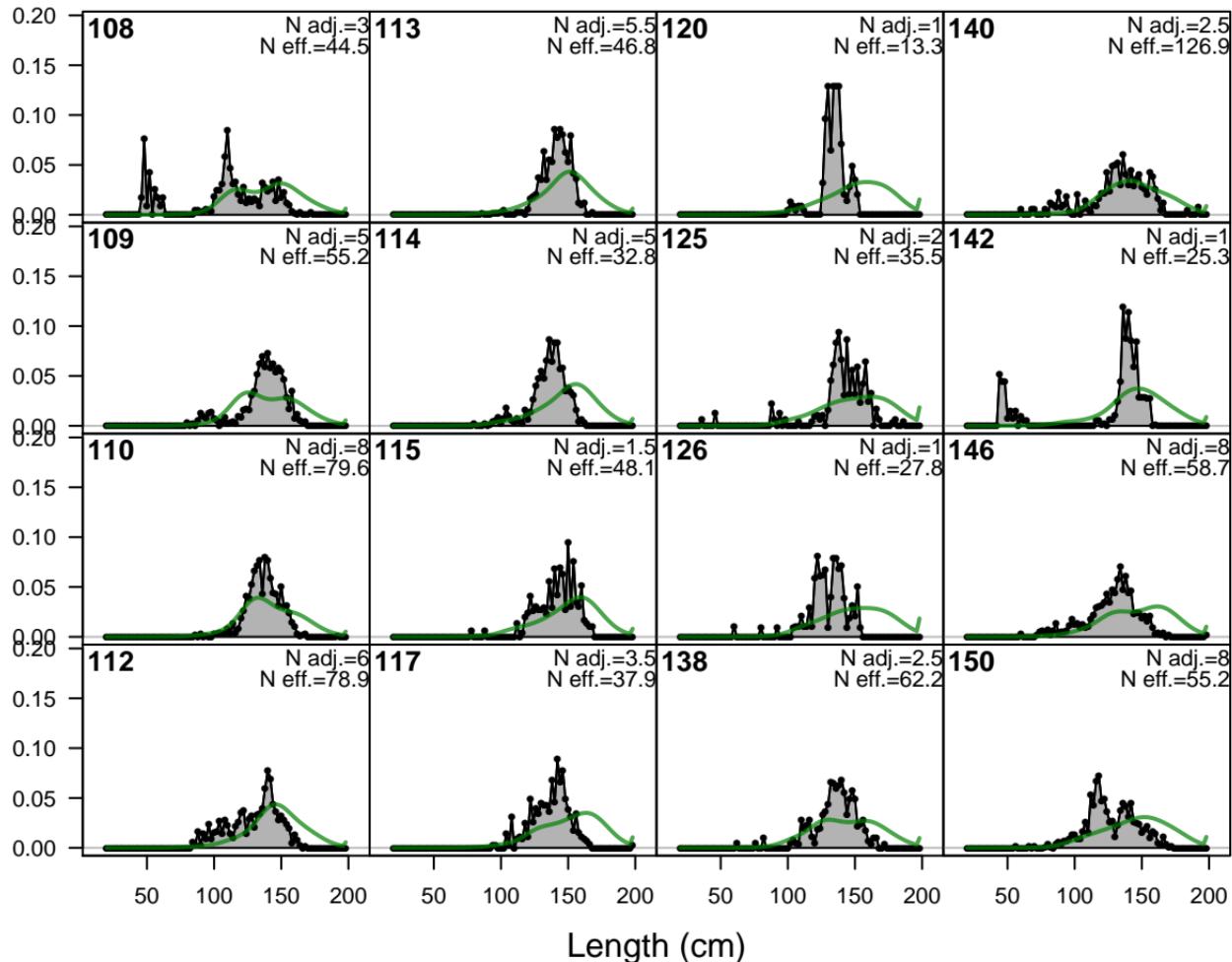


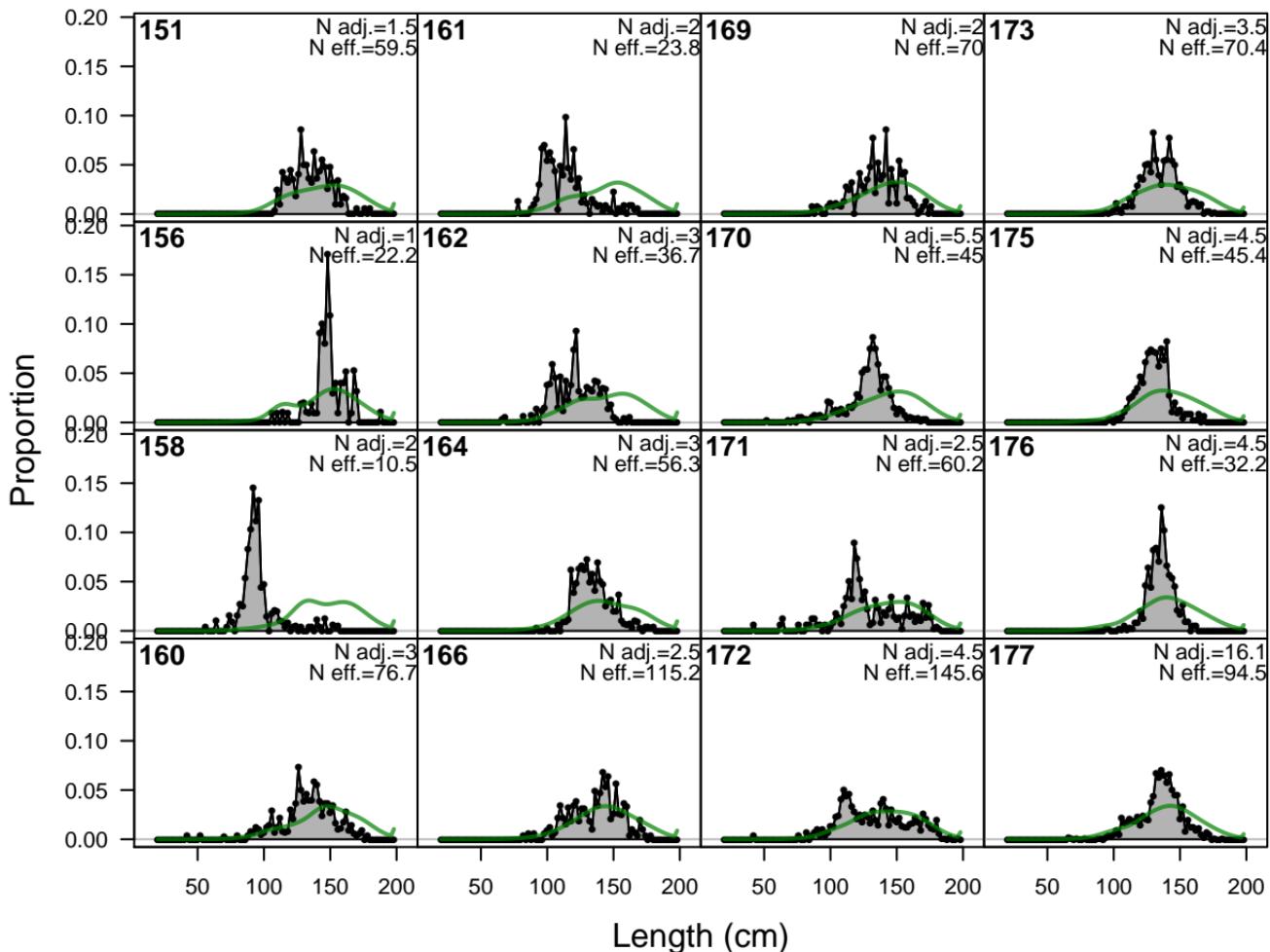
Proportion

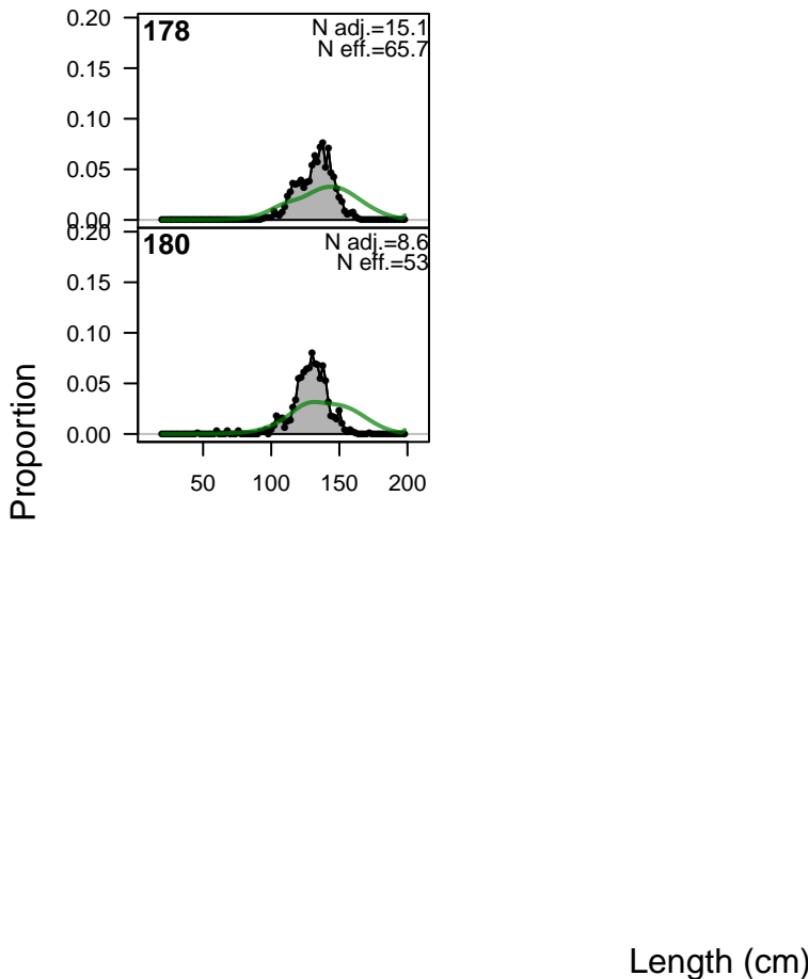


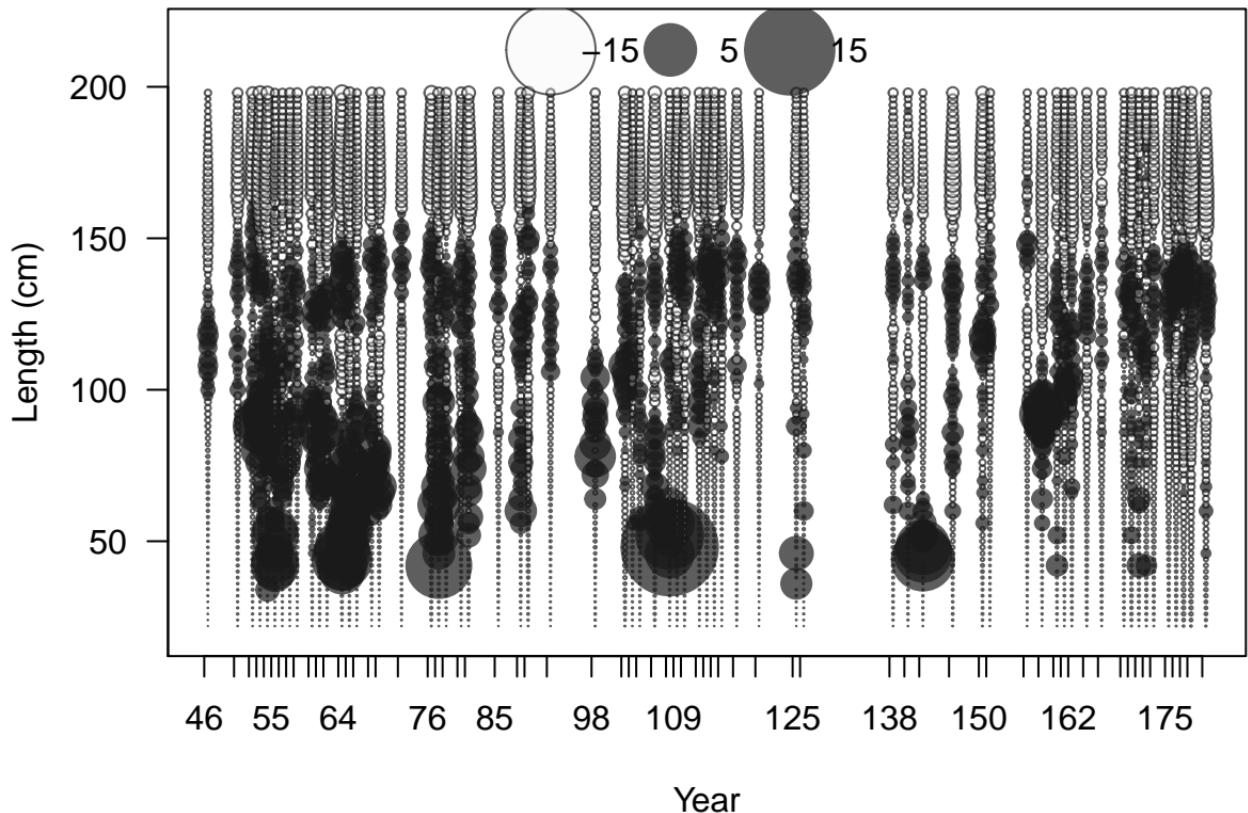


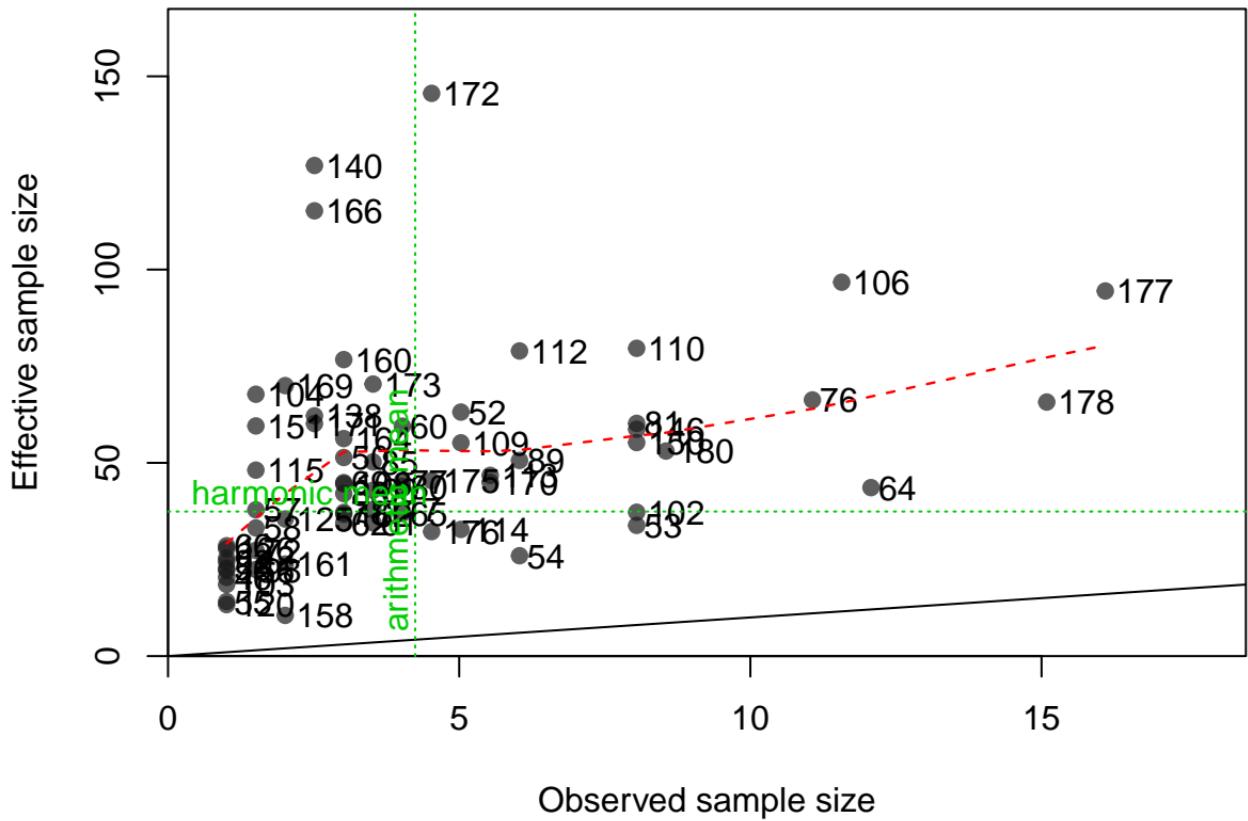
Proportion



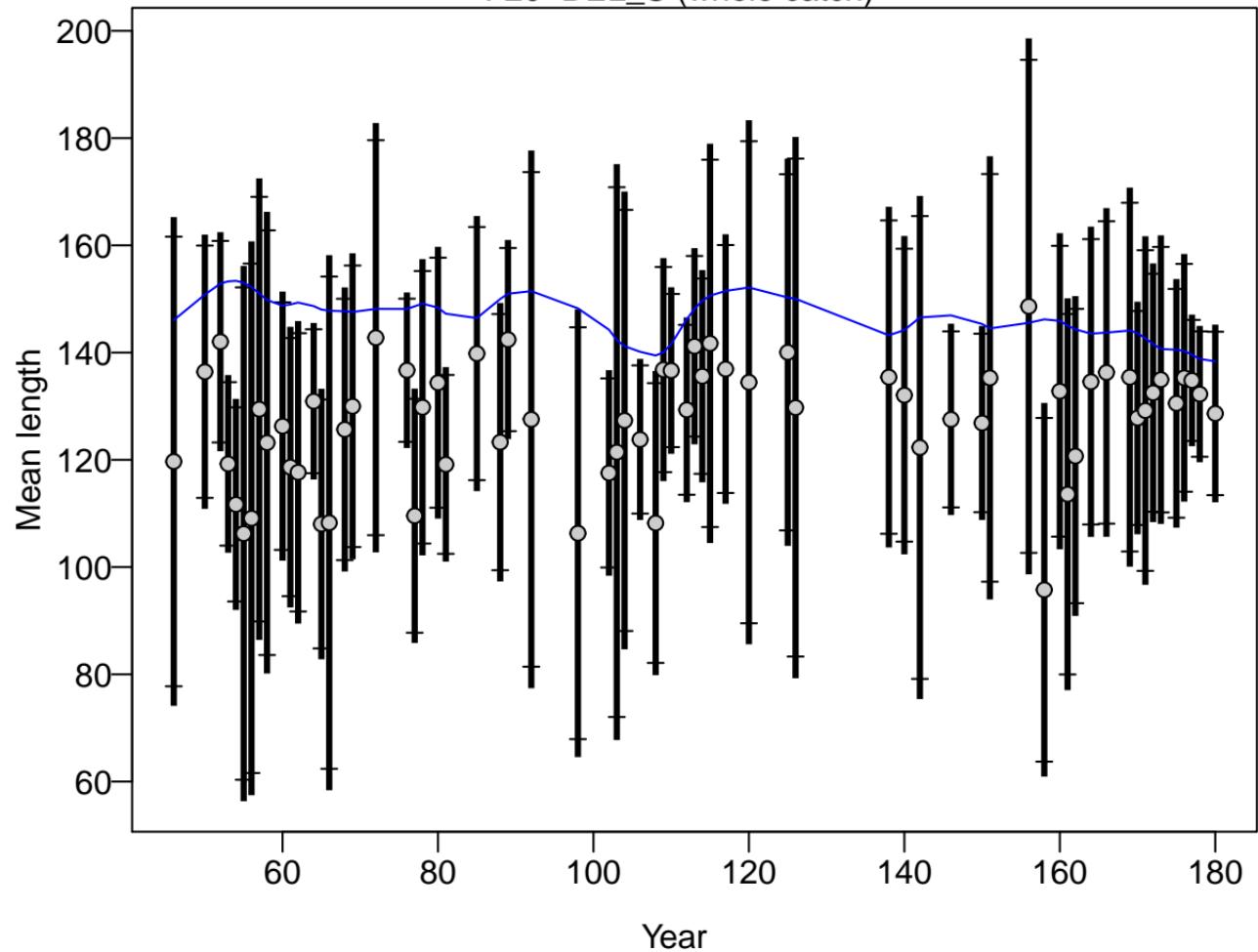




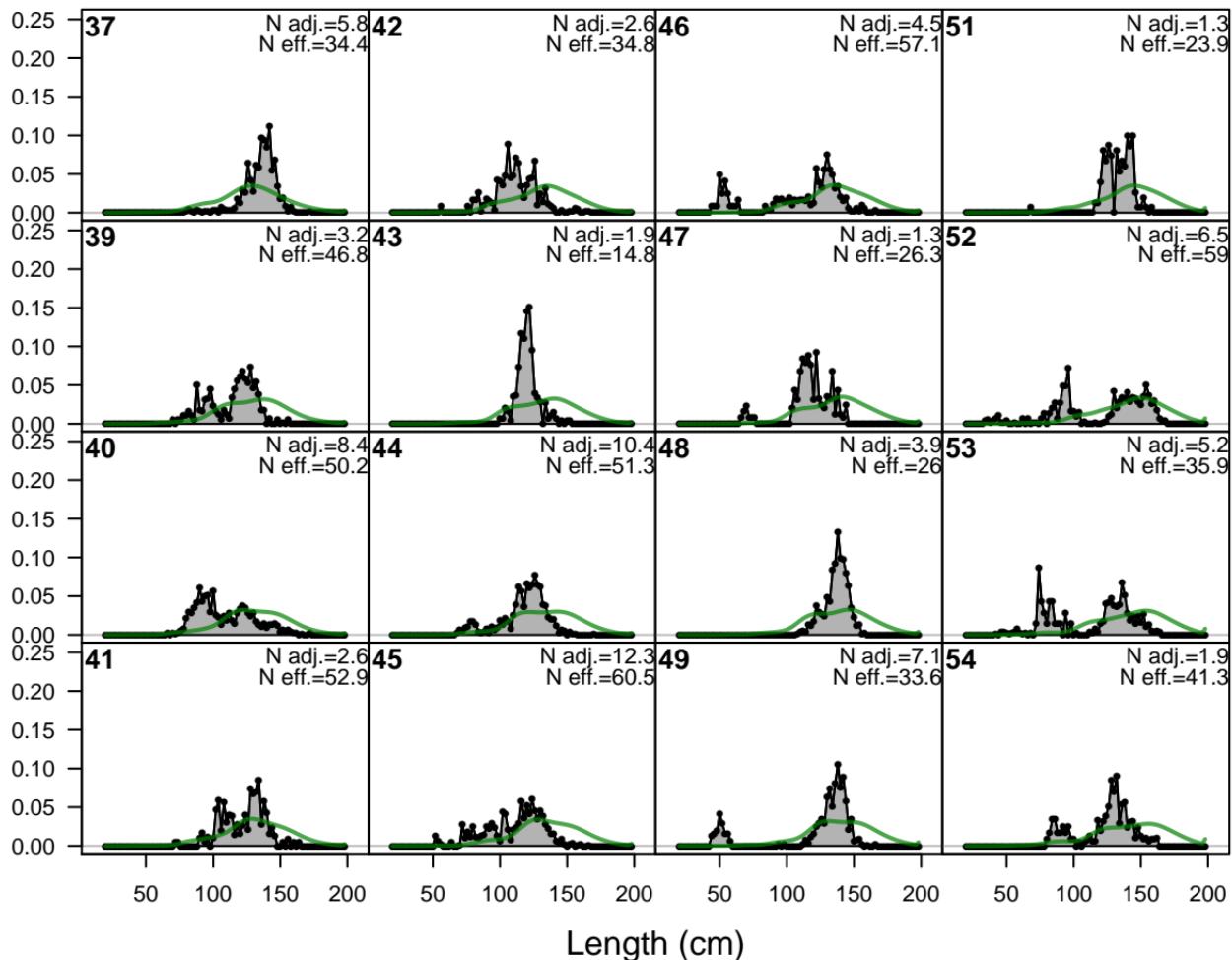




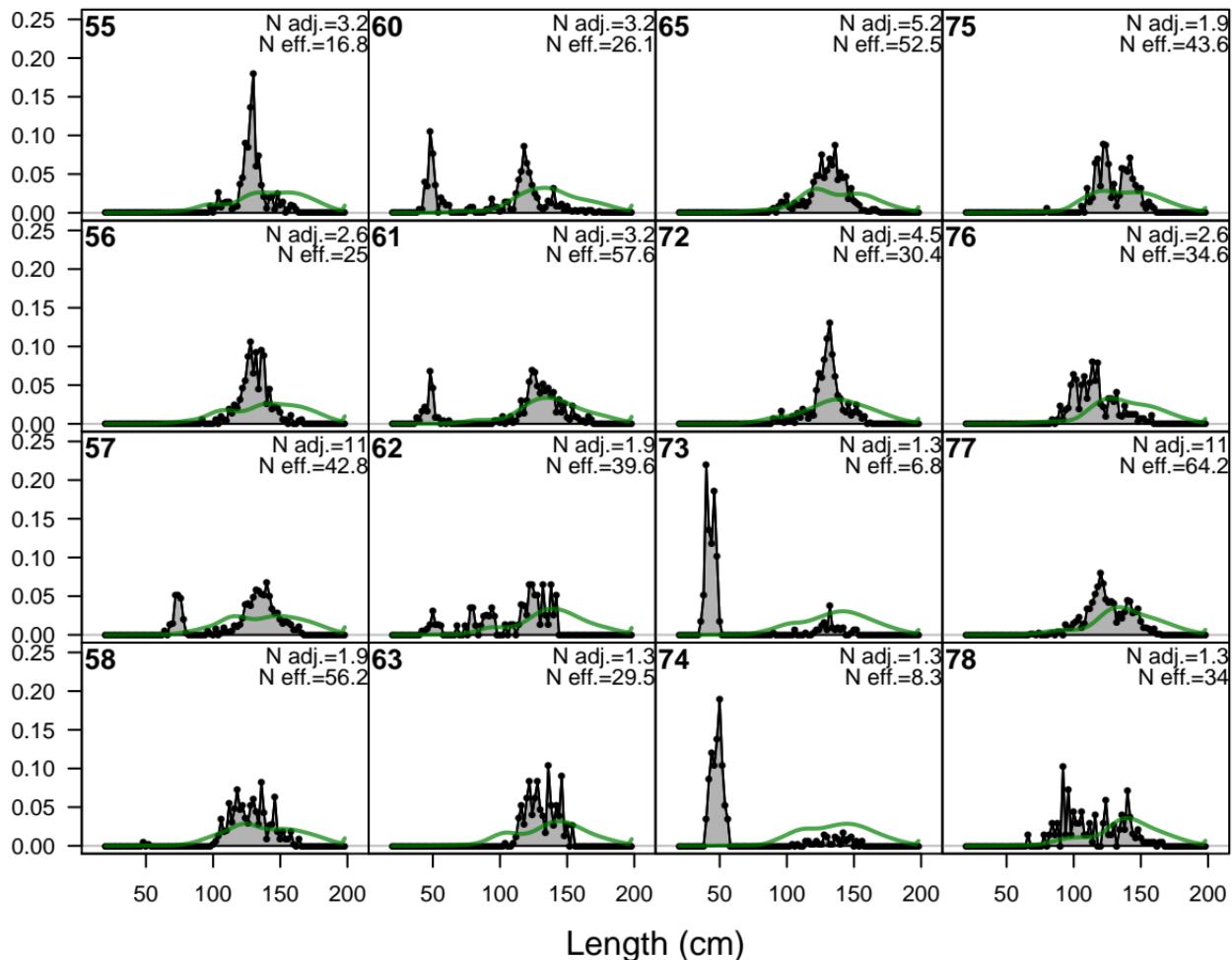
F20-DEL_S (whole catch)



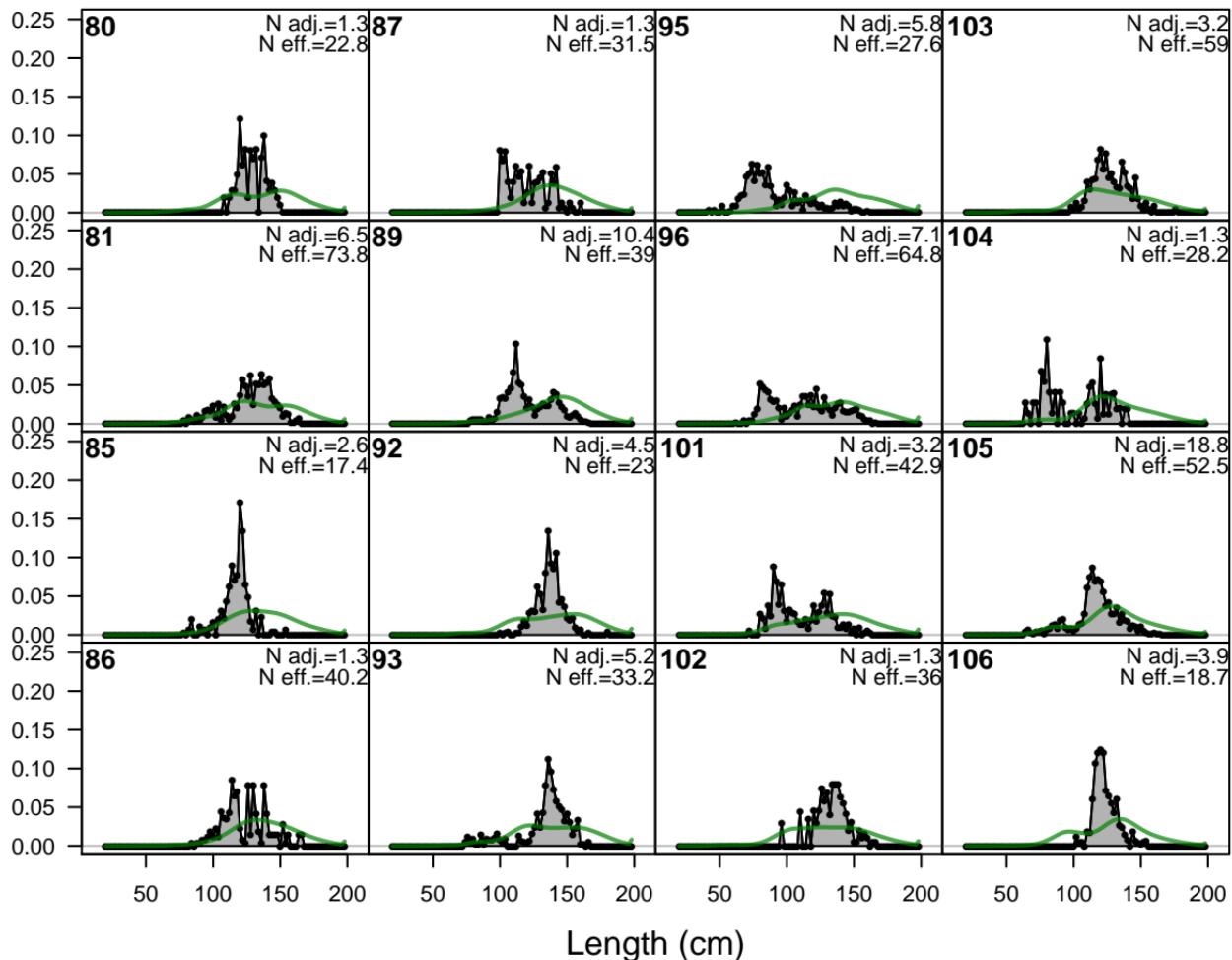
Proportion



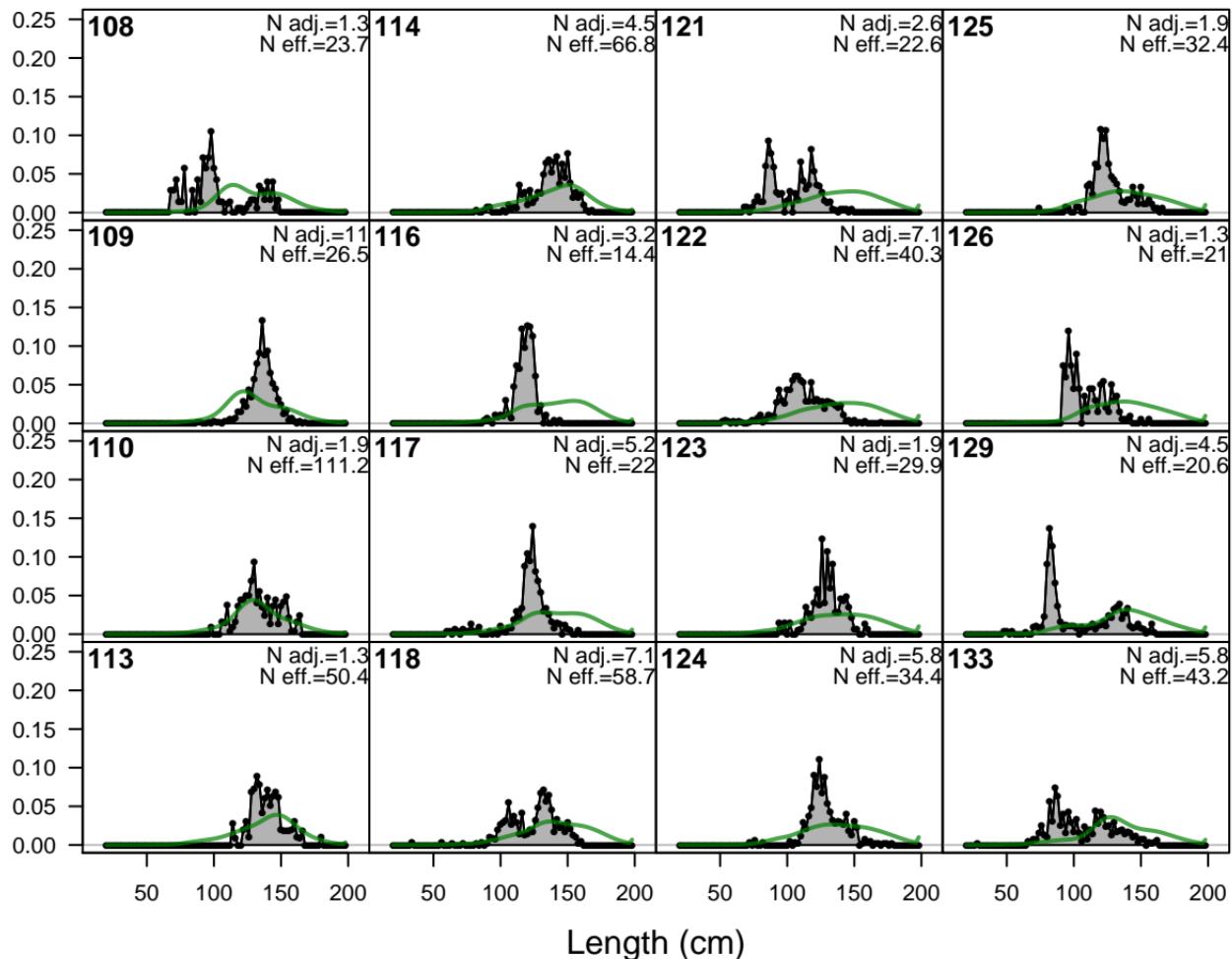
Proportion



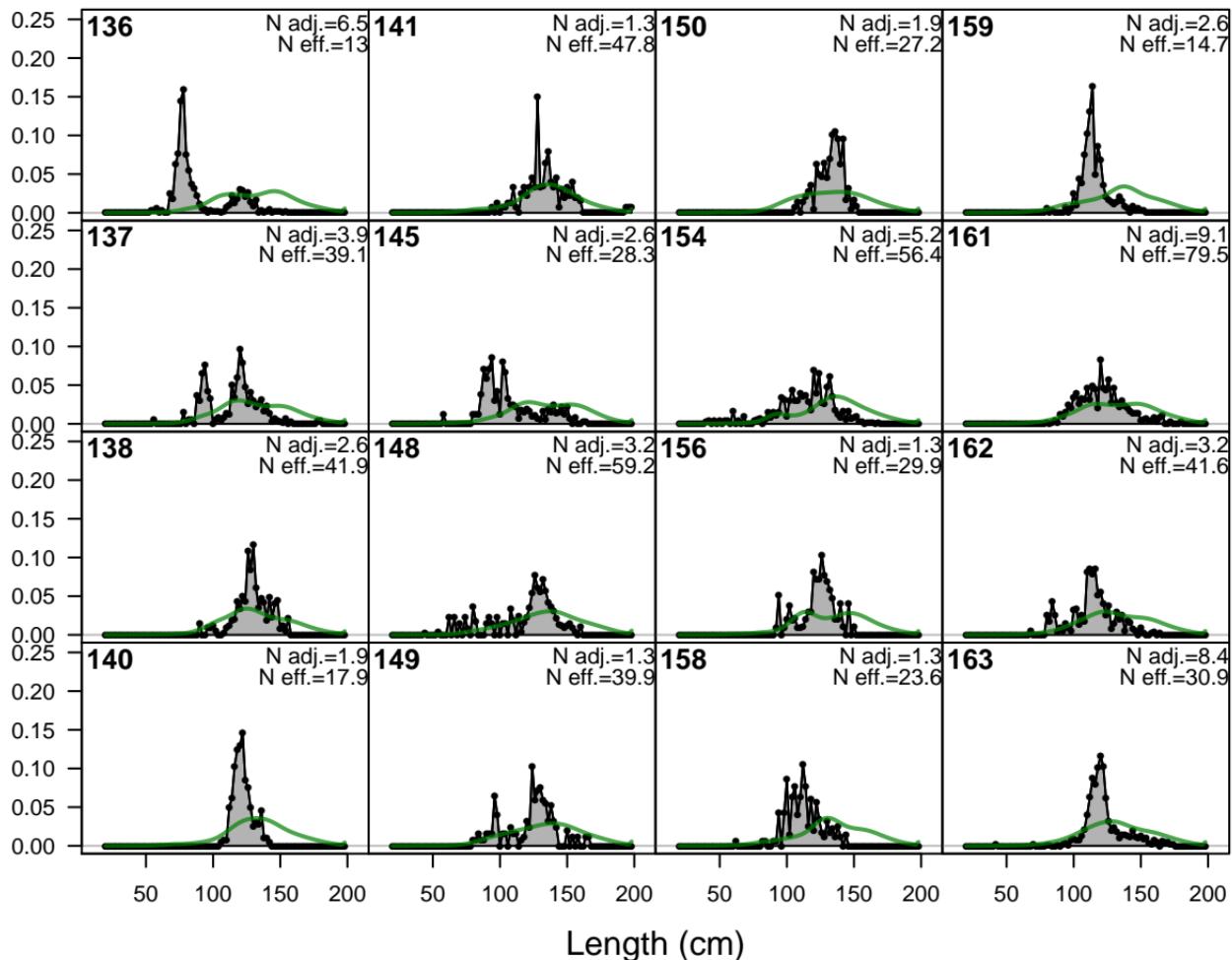
Proportion



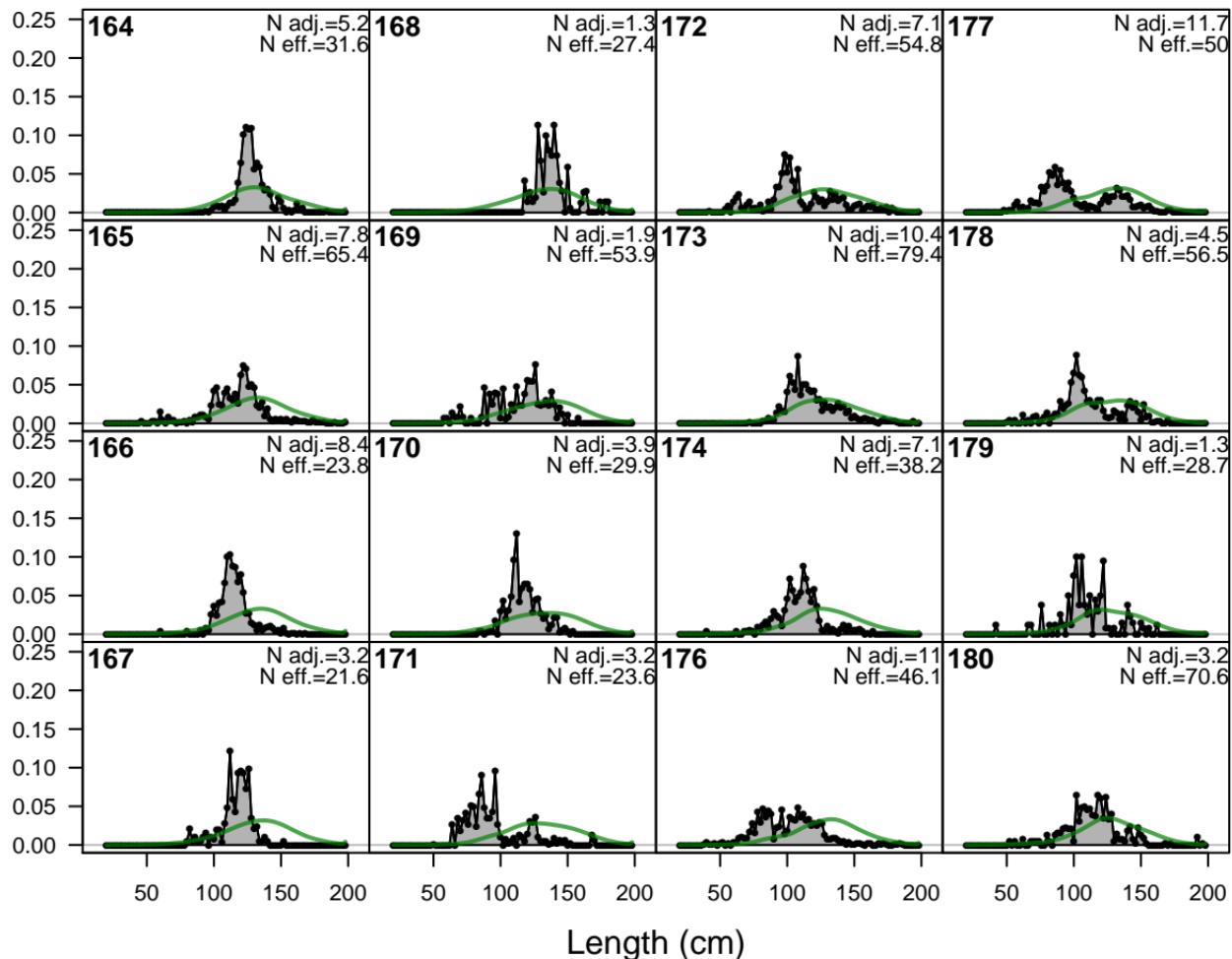
Proportion

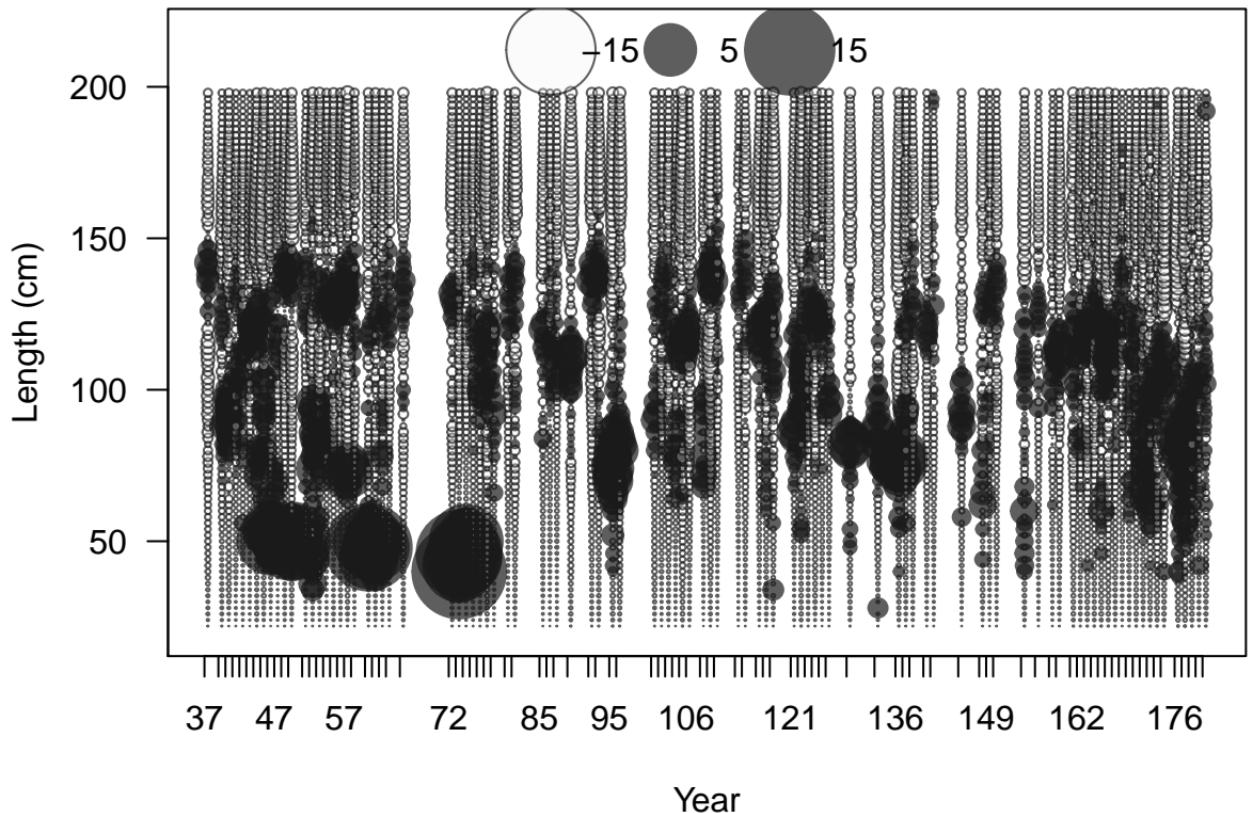


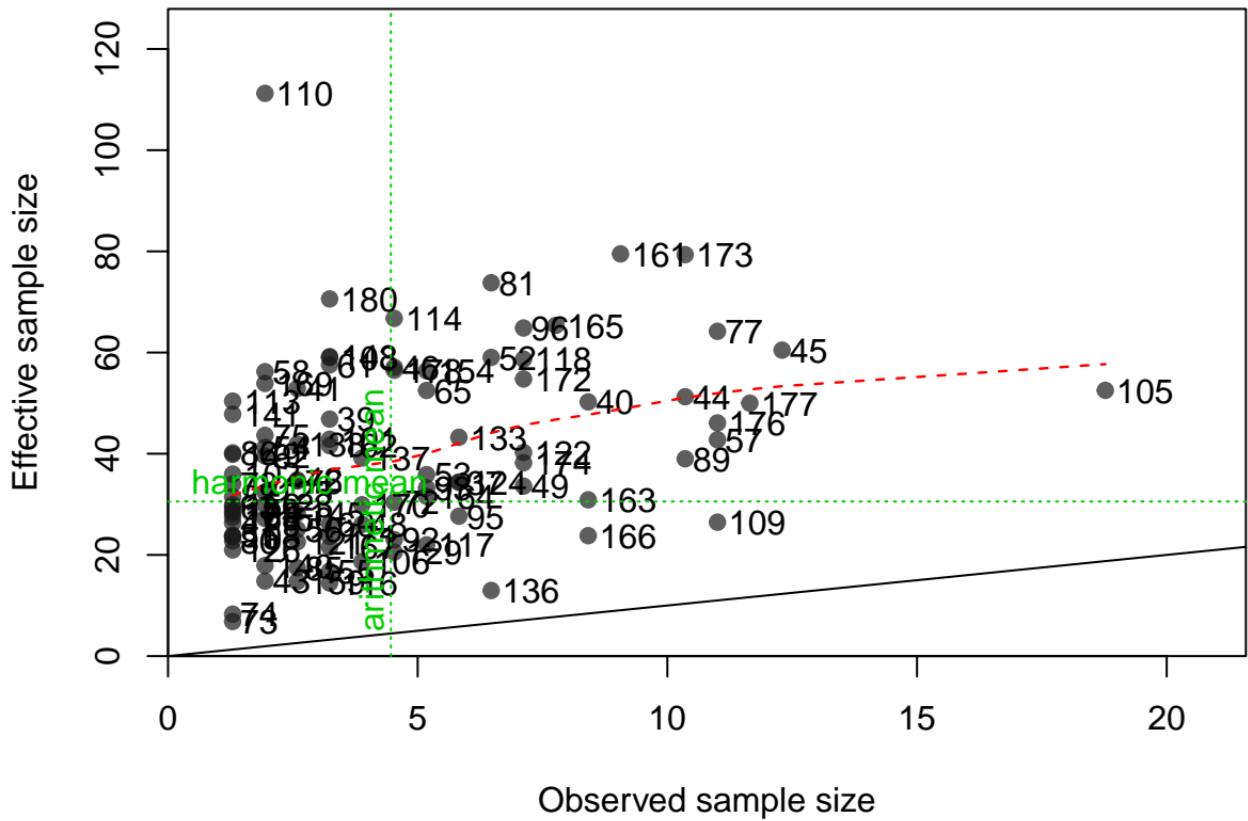
Proportion



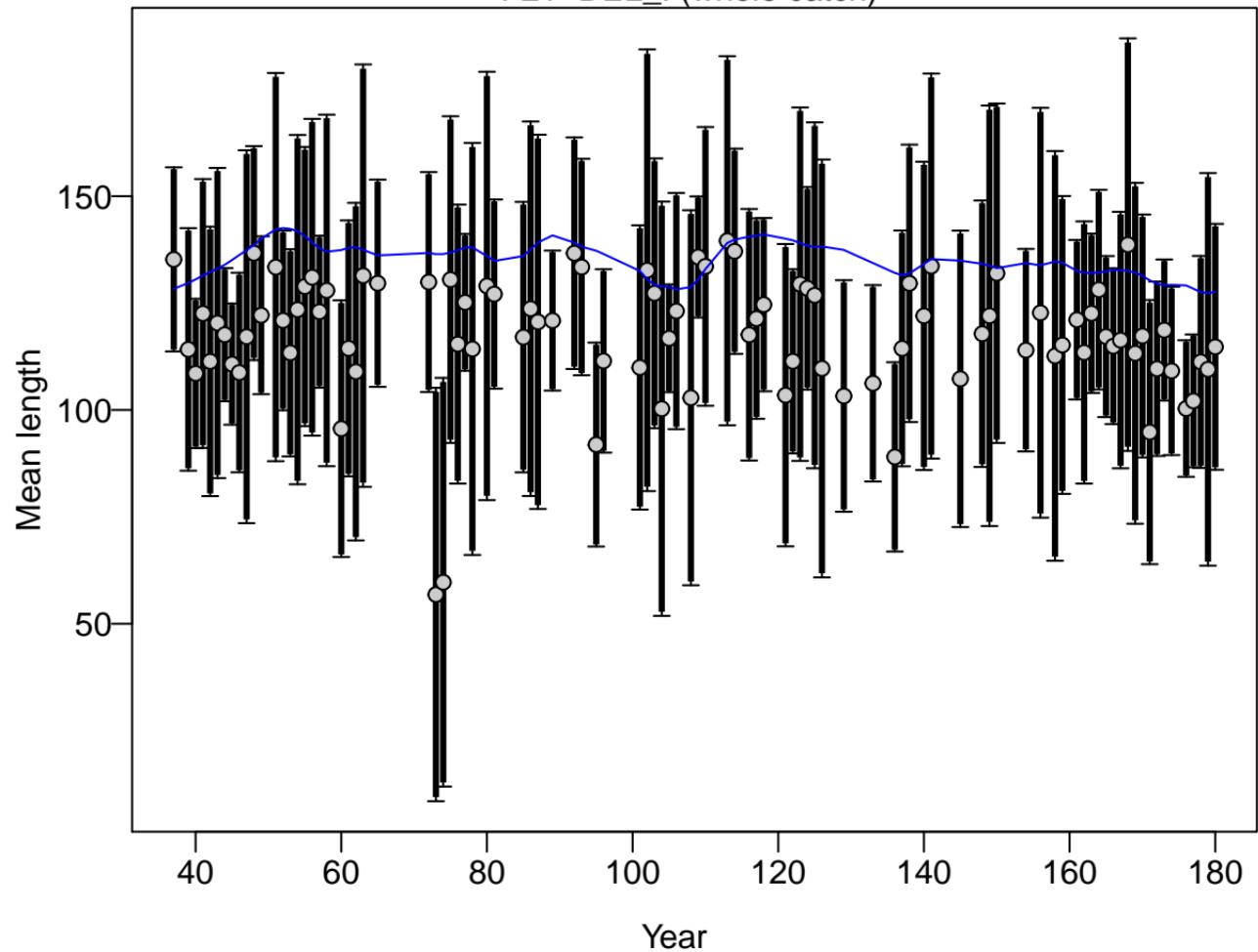
Proportion



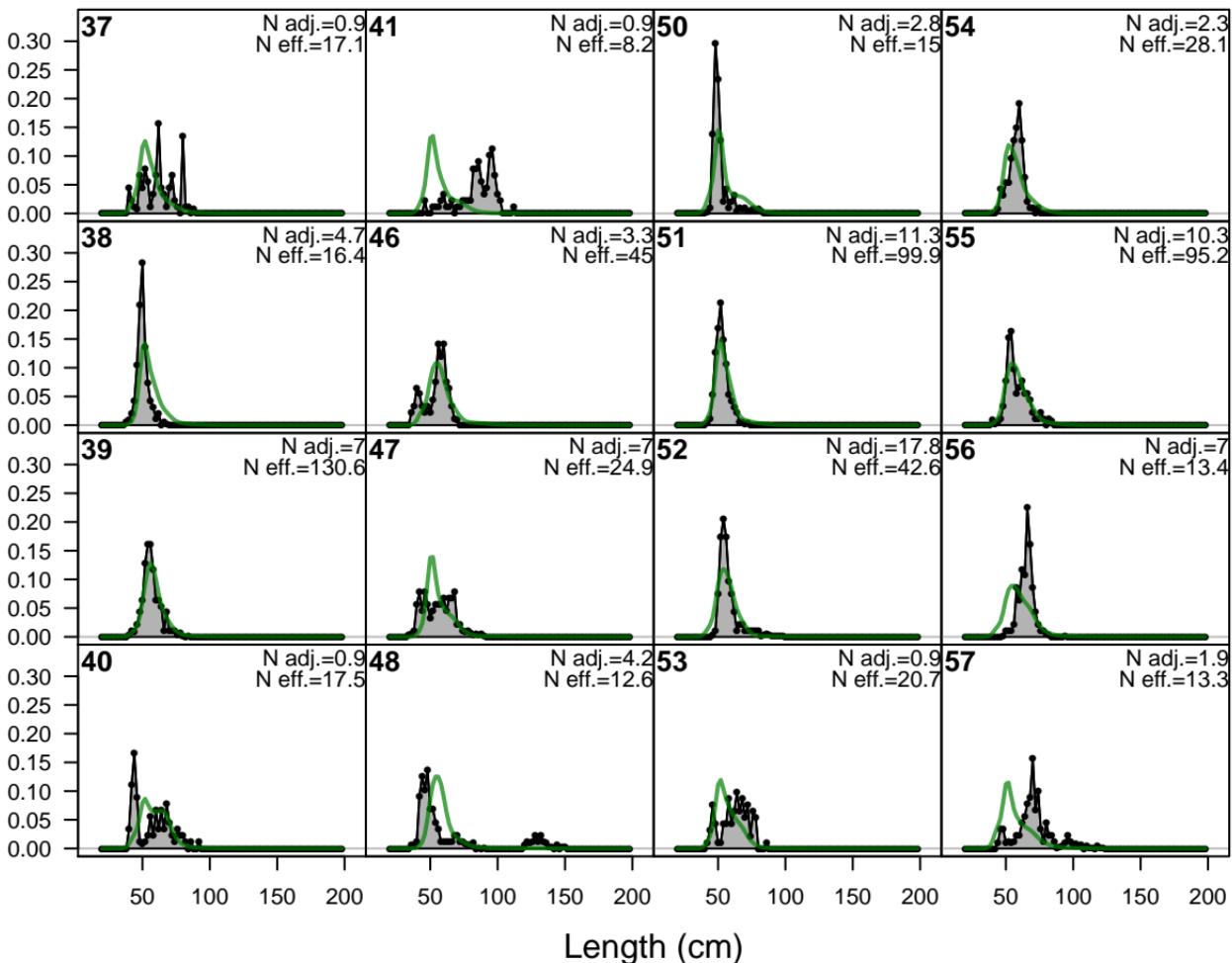




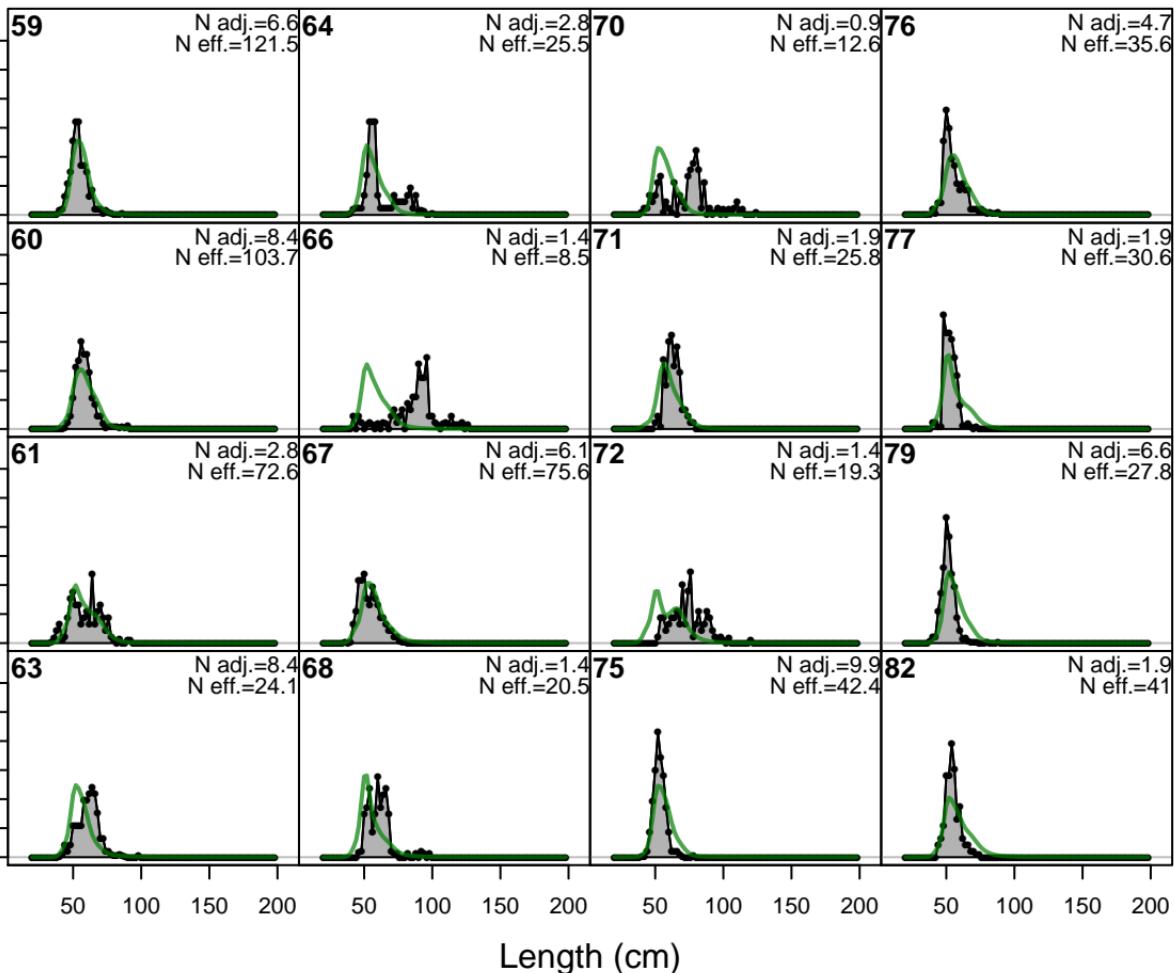
F21-DEL_I (whole catch)



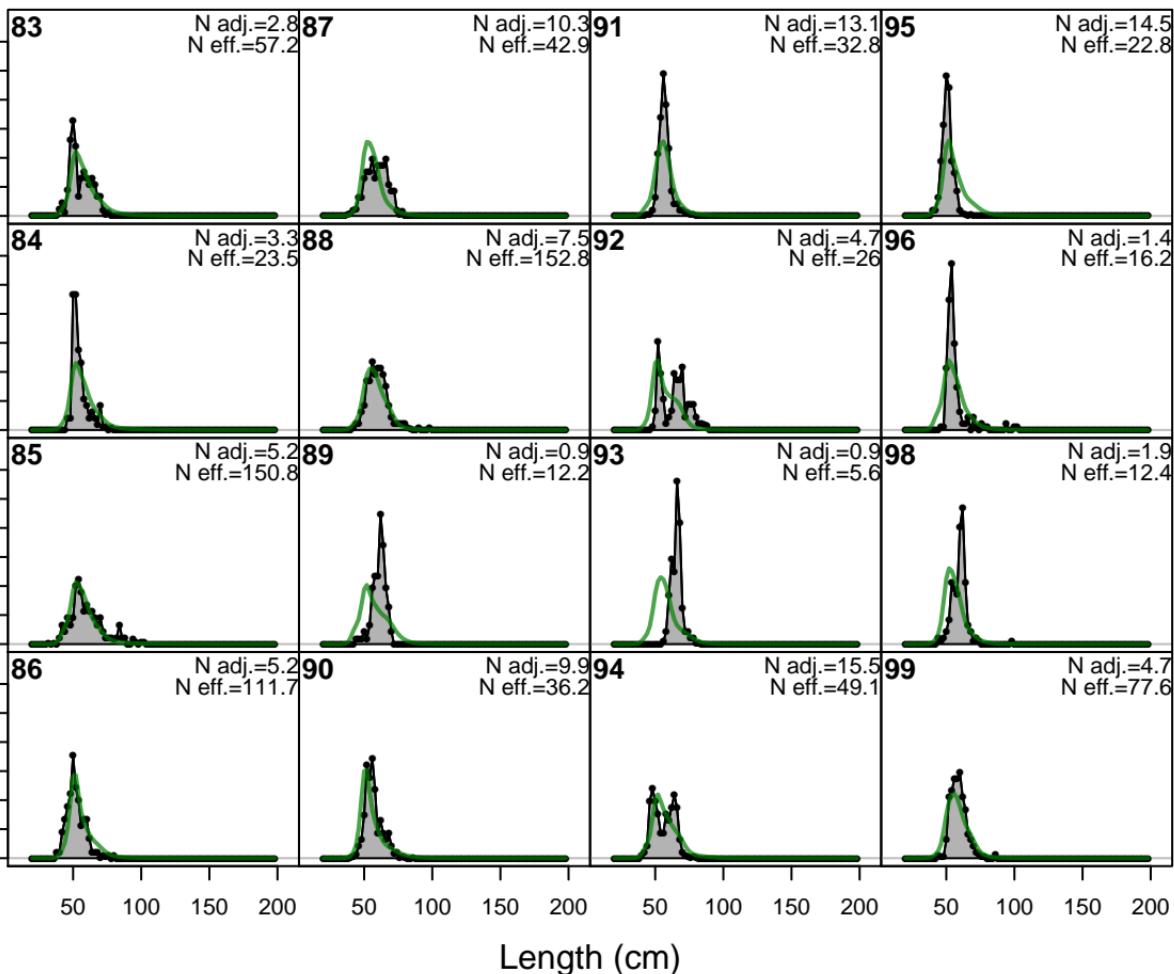
Proportion



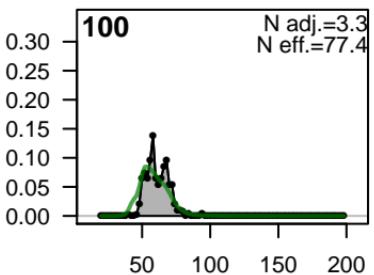
Proportion

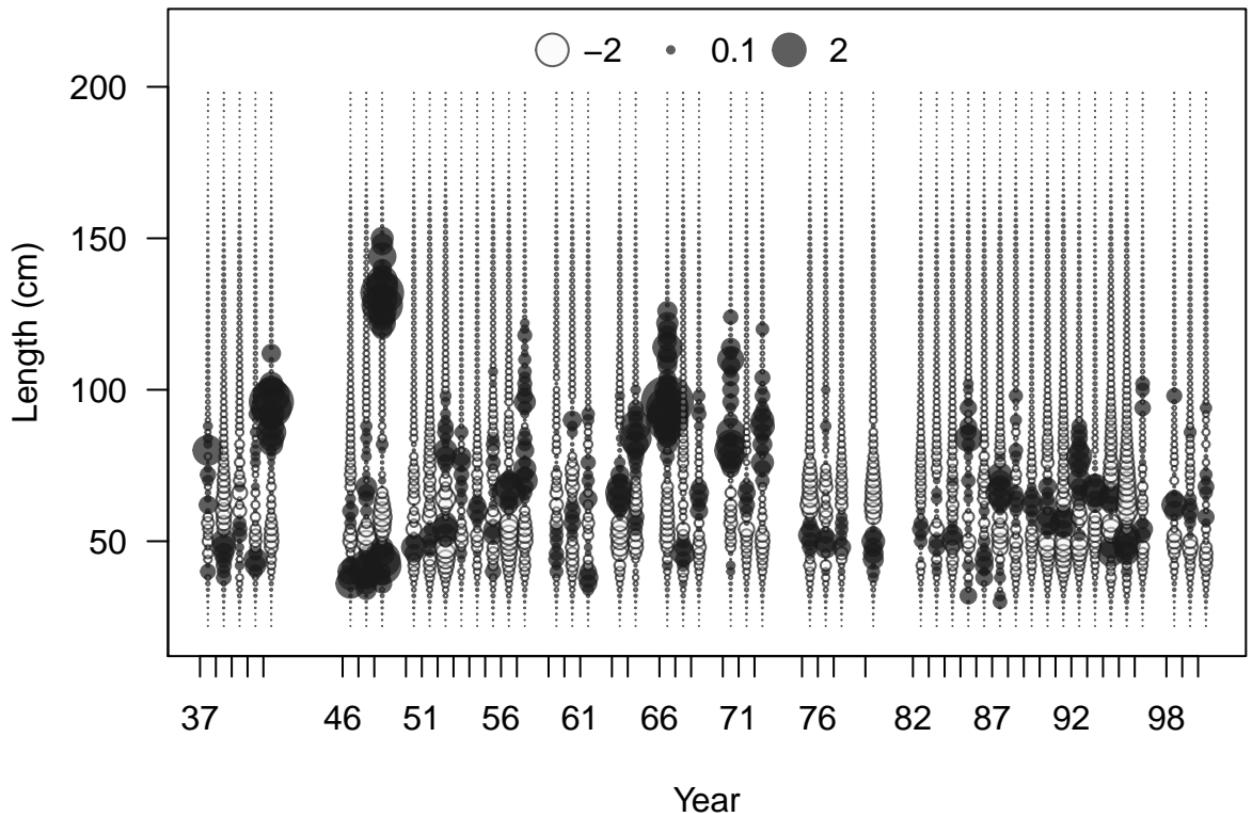


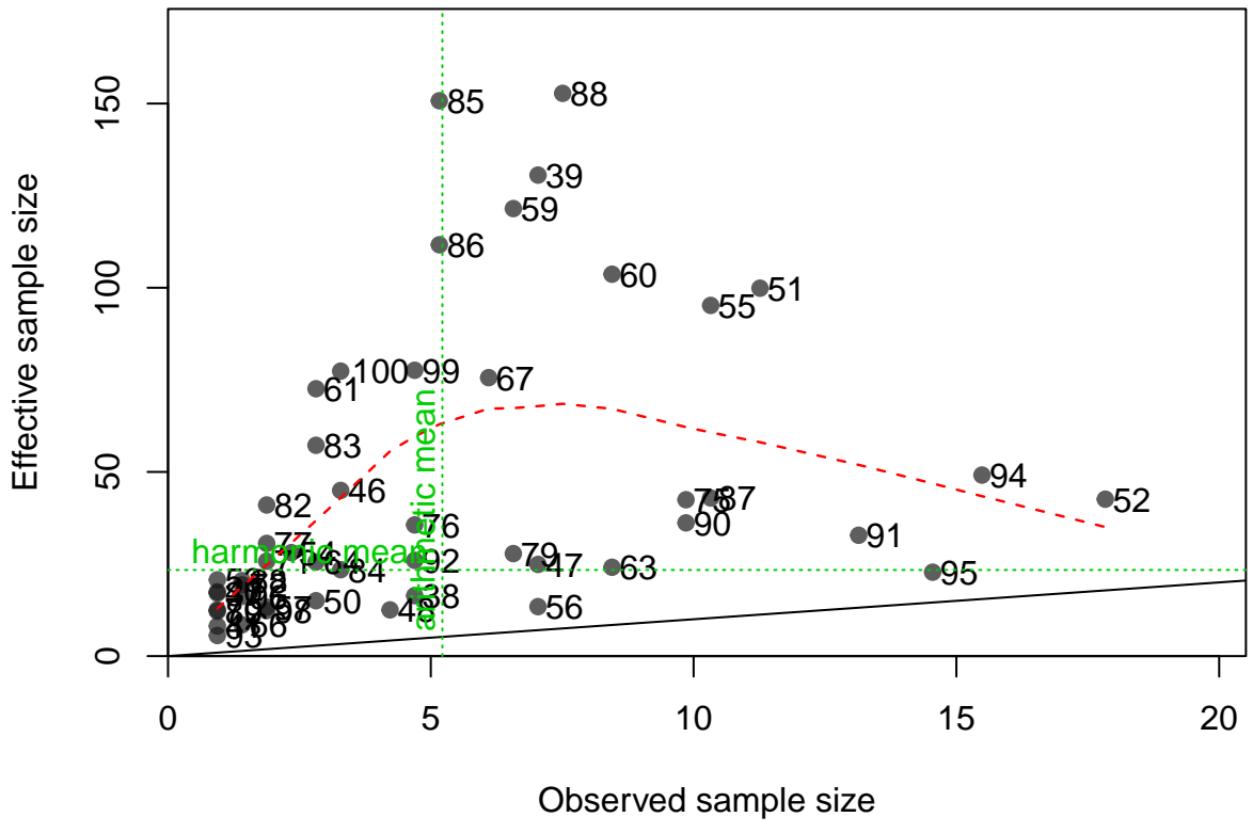
Proportion



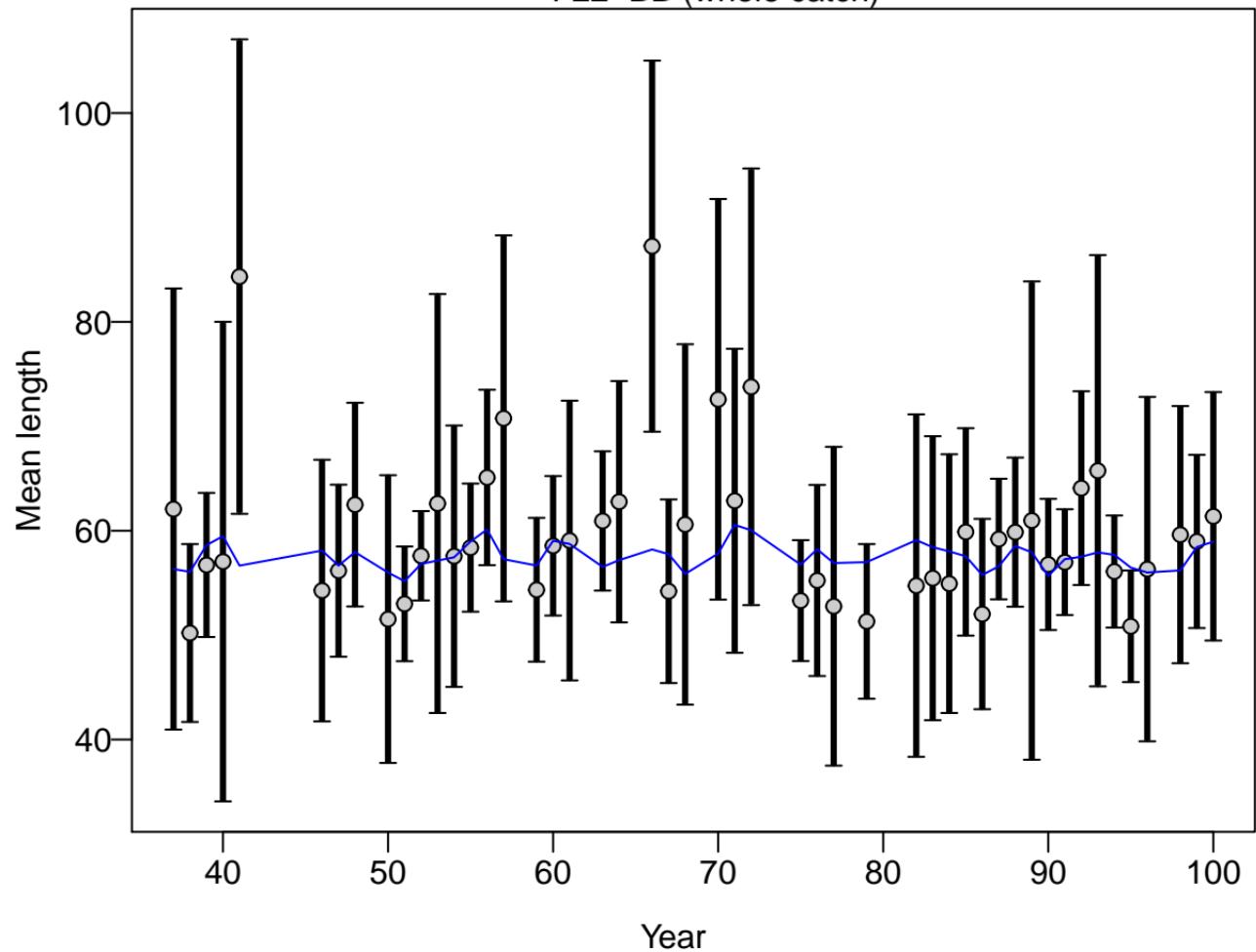
Proportion



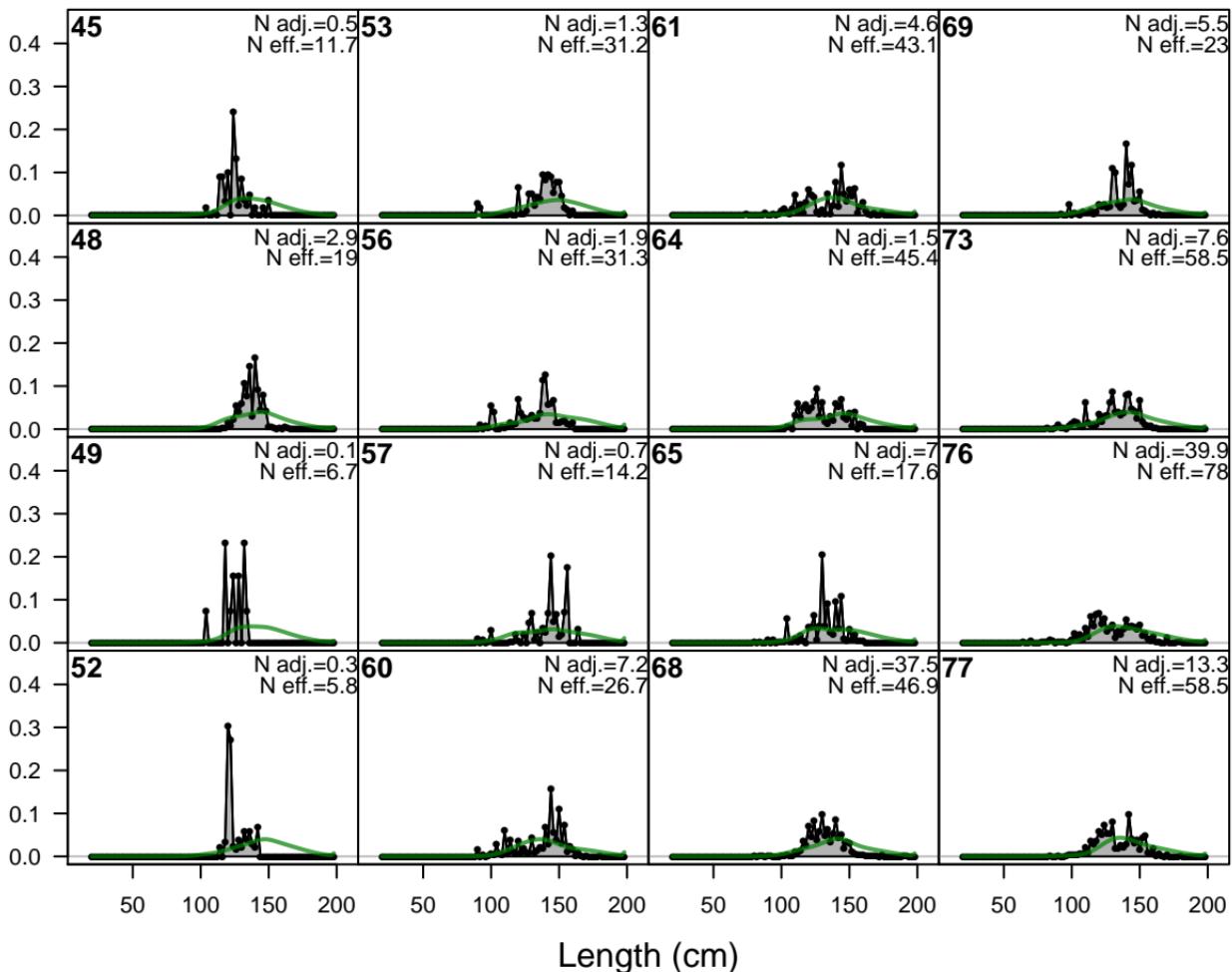




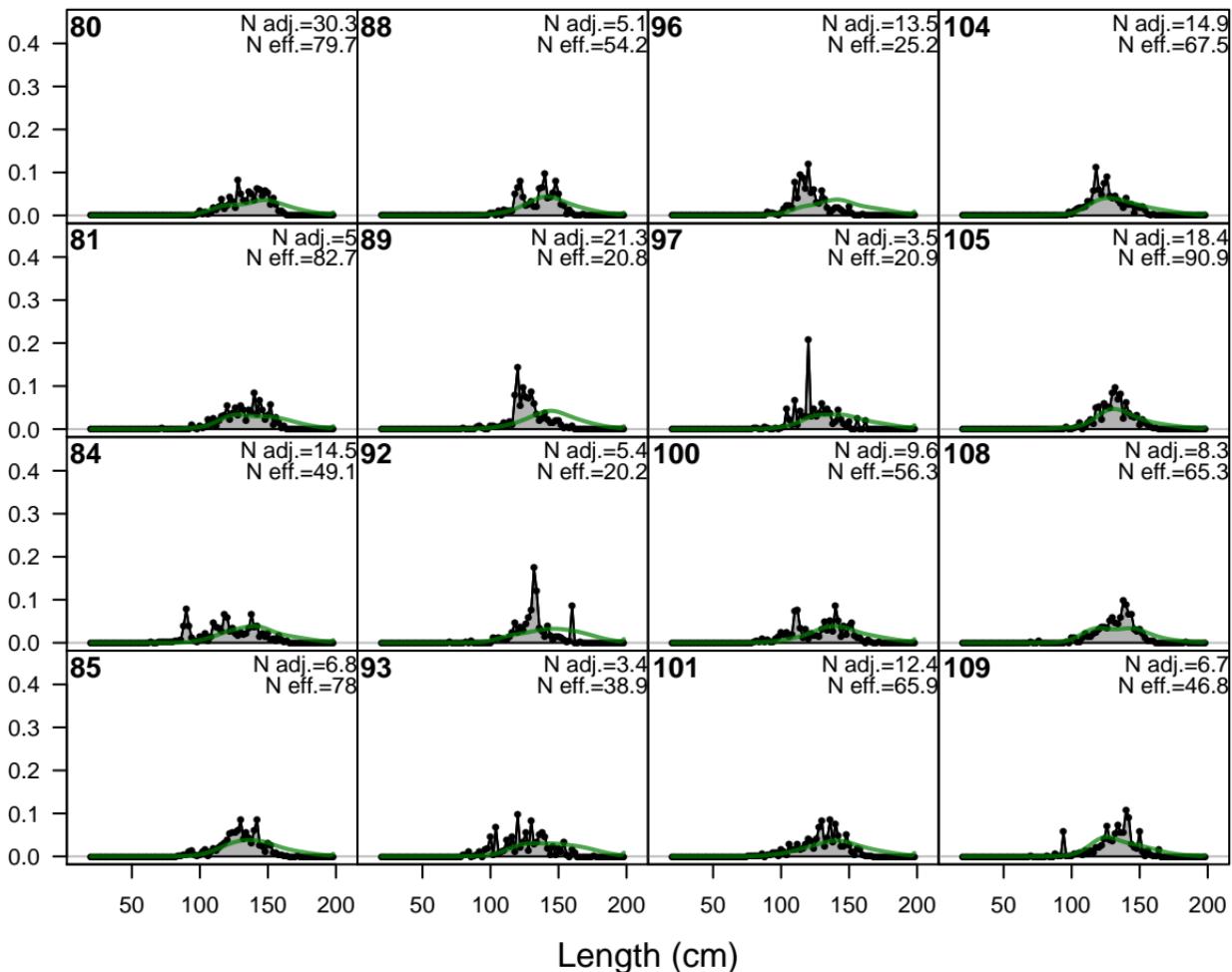
F22-BB (whole catch)



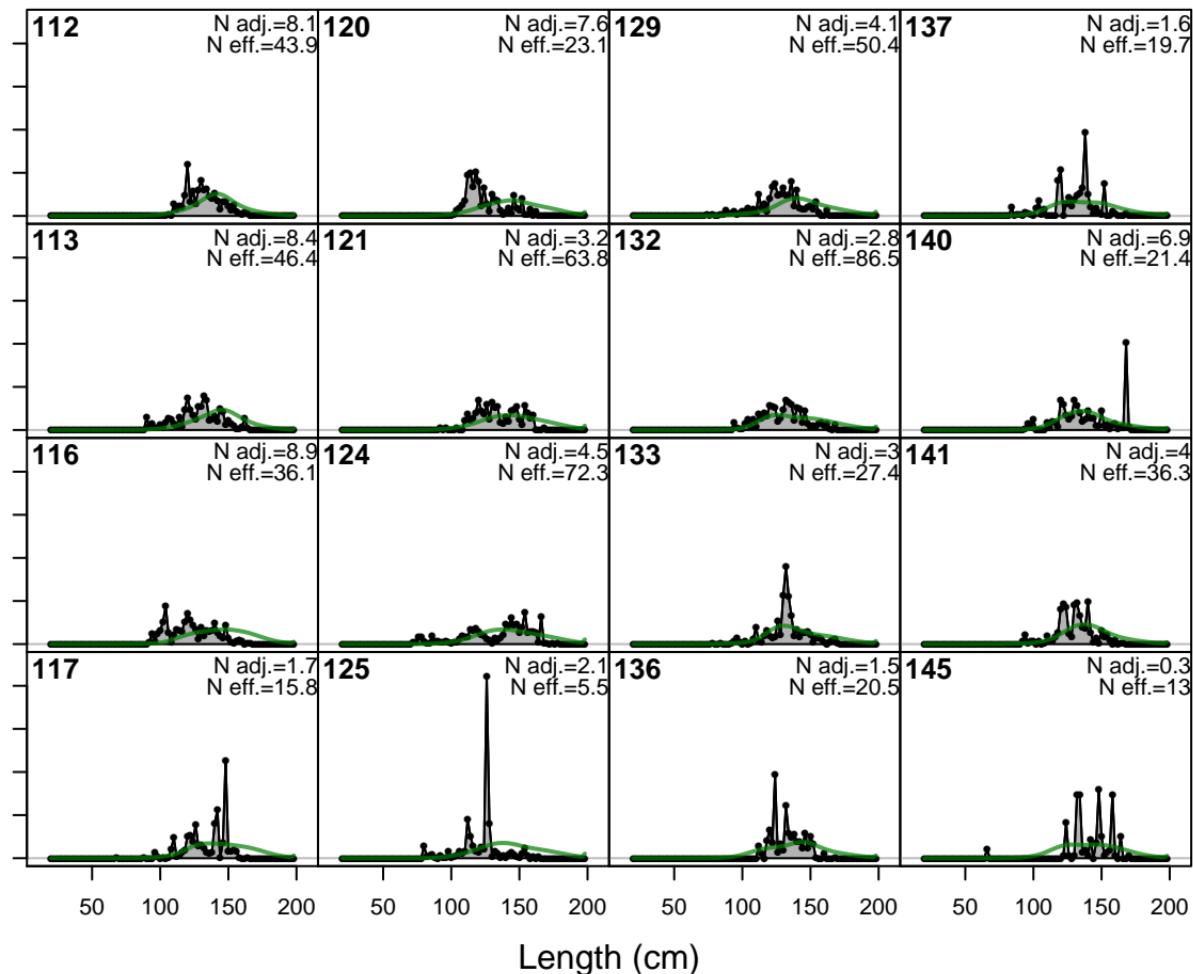
Proportion



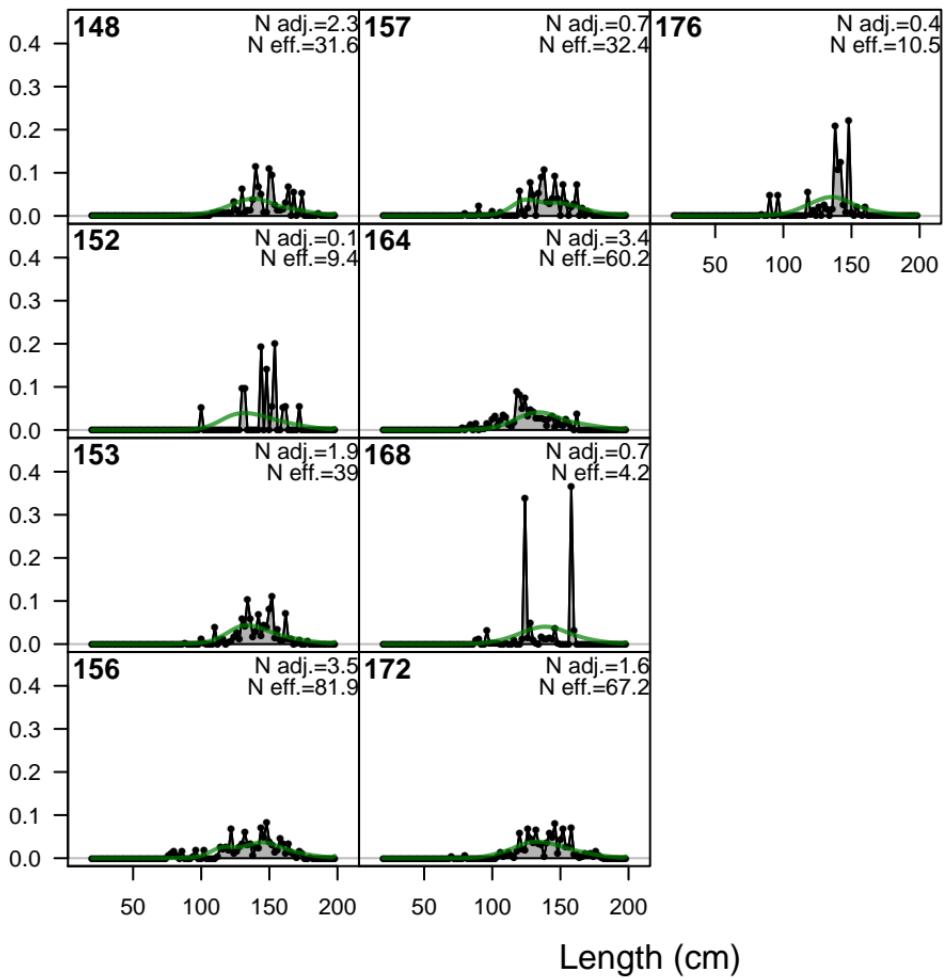
Proportion

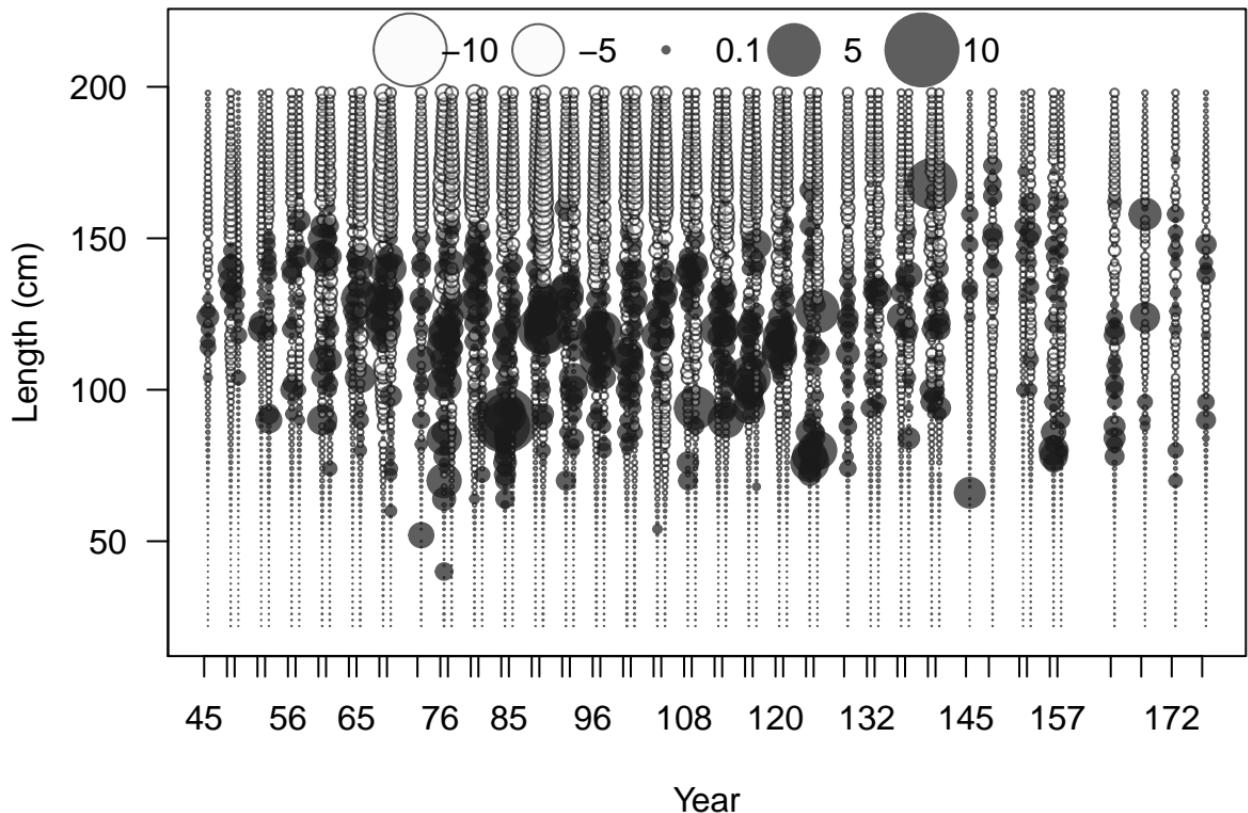


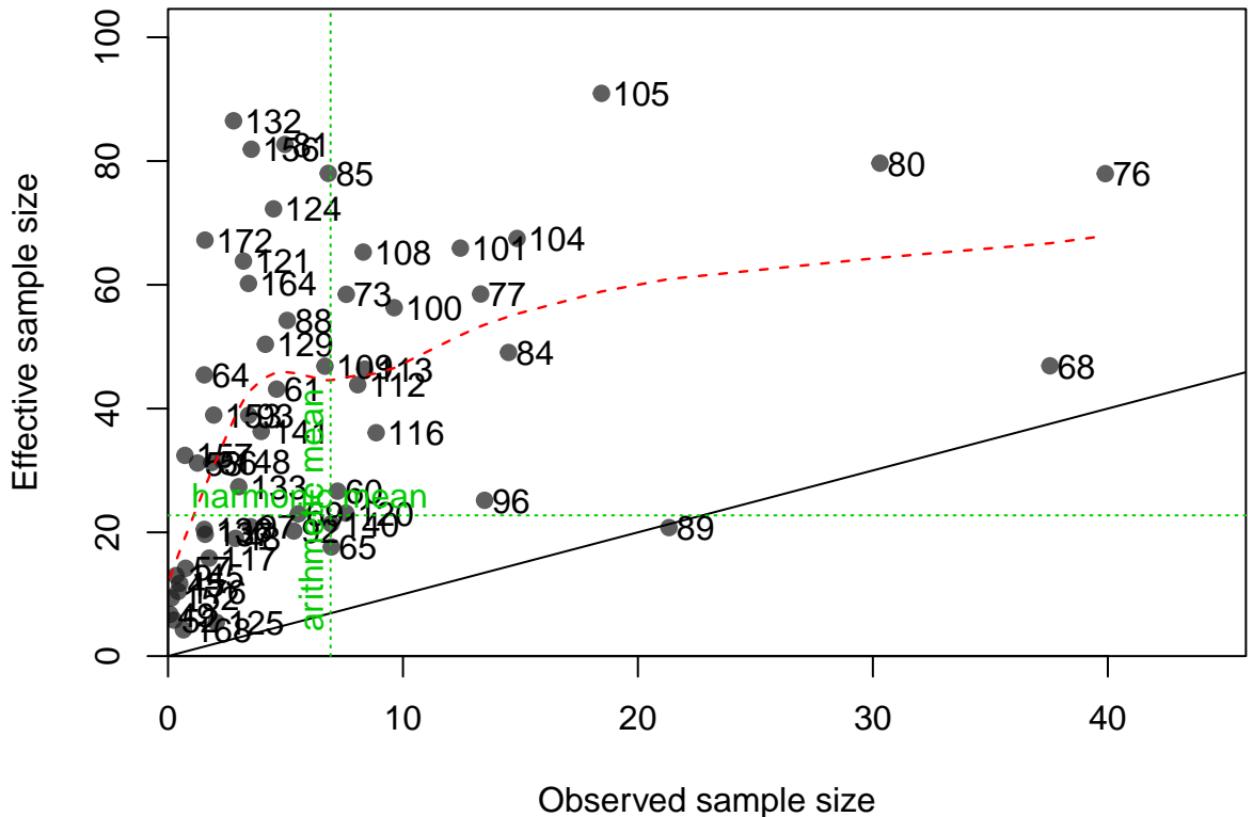
Proportion



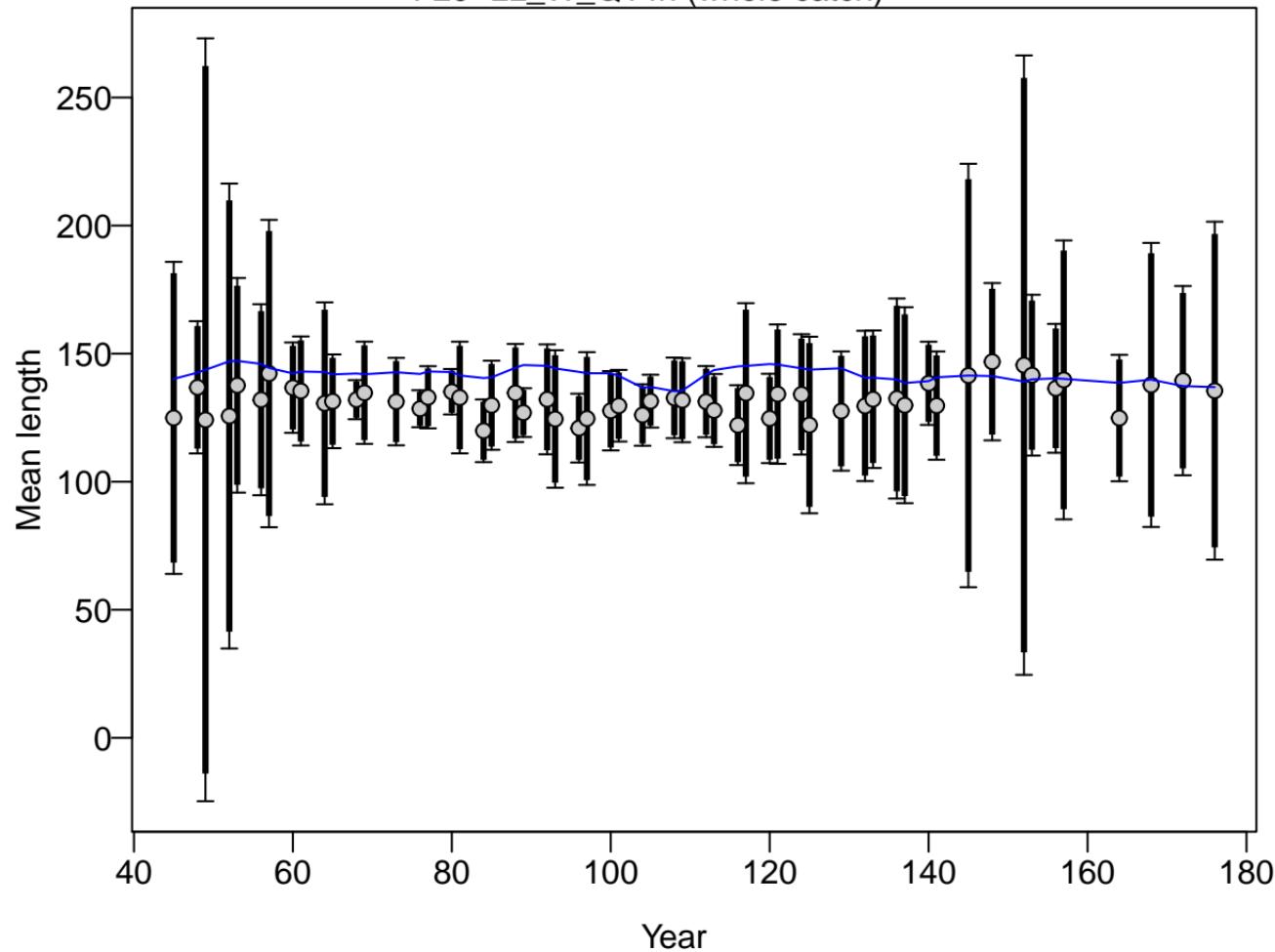
Proportion



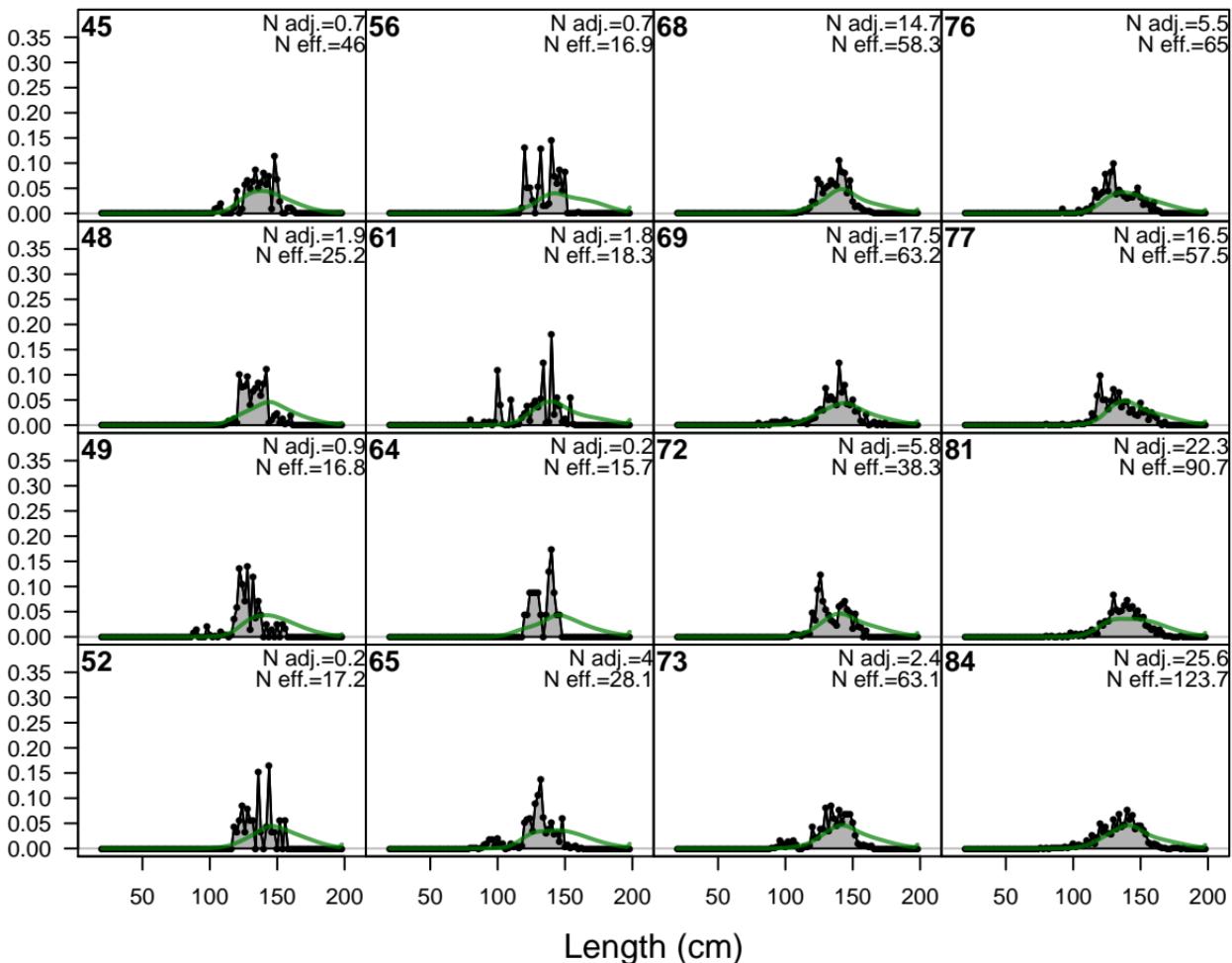




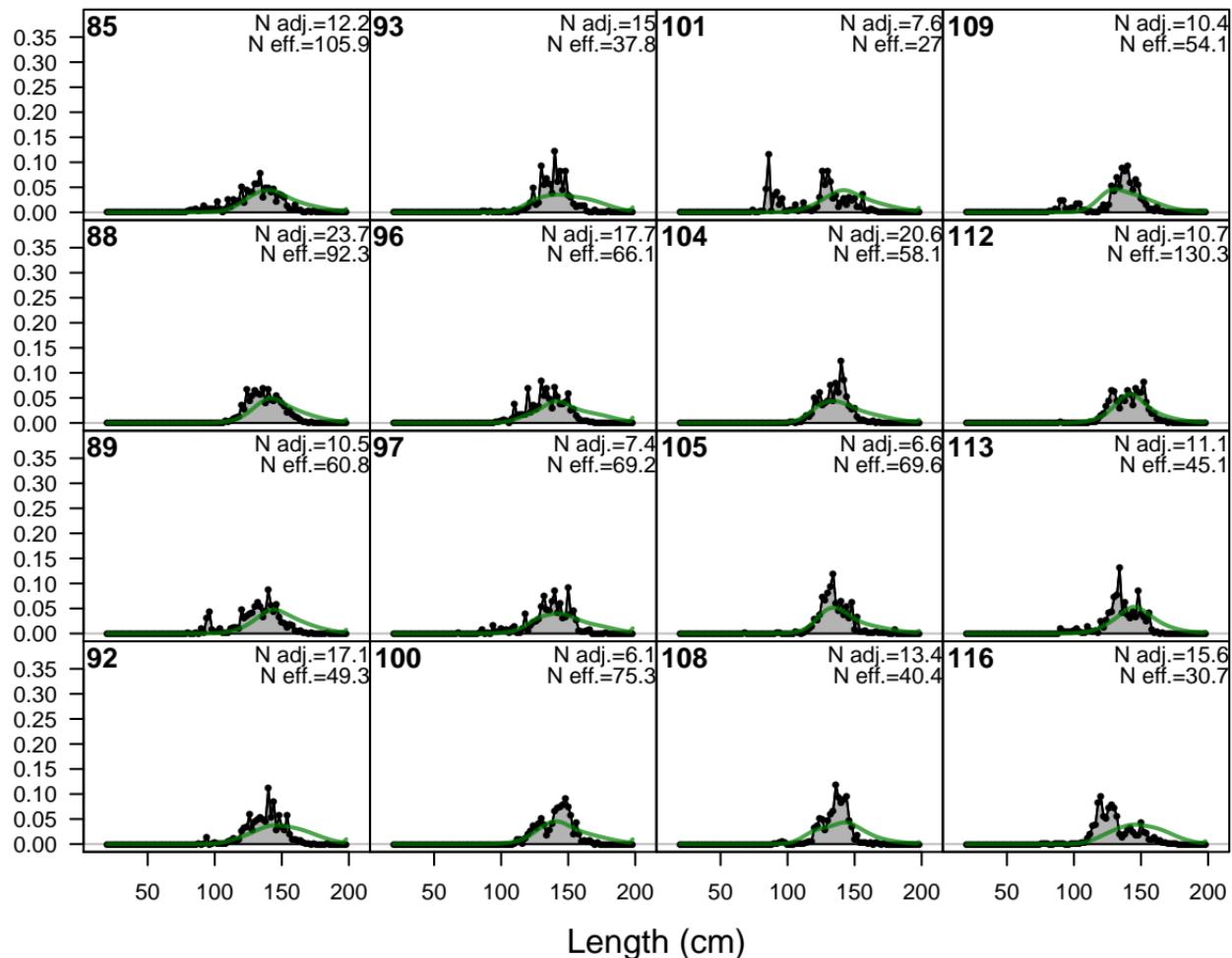
F29-LL_W_Q14n (whole catch)



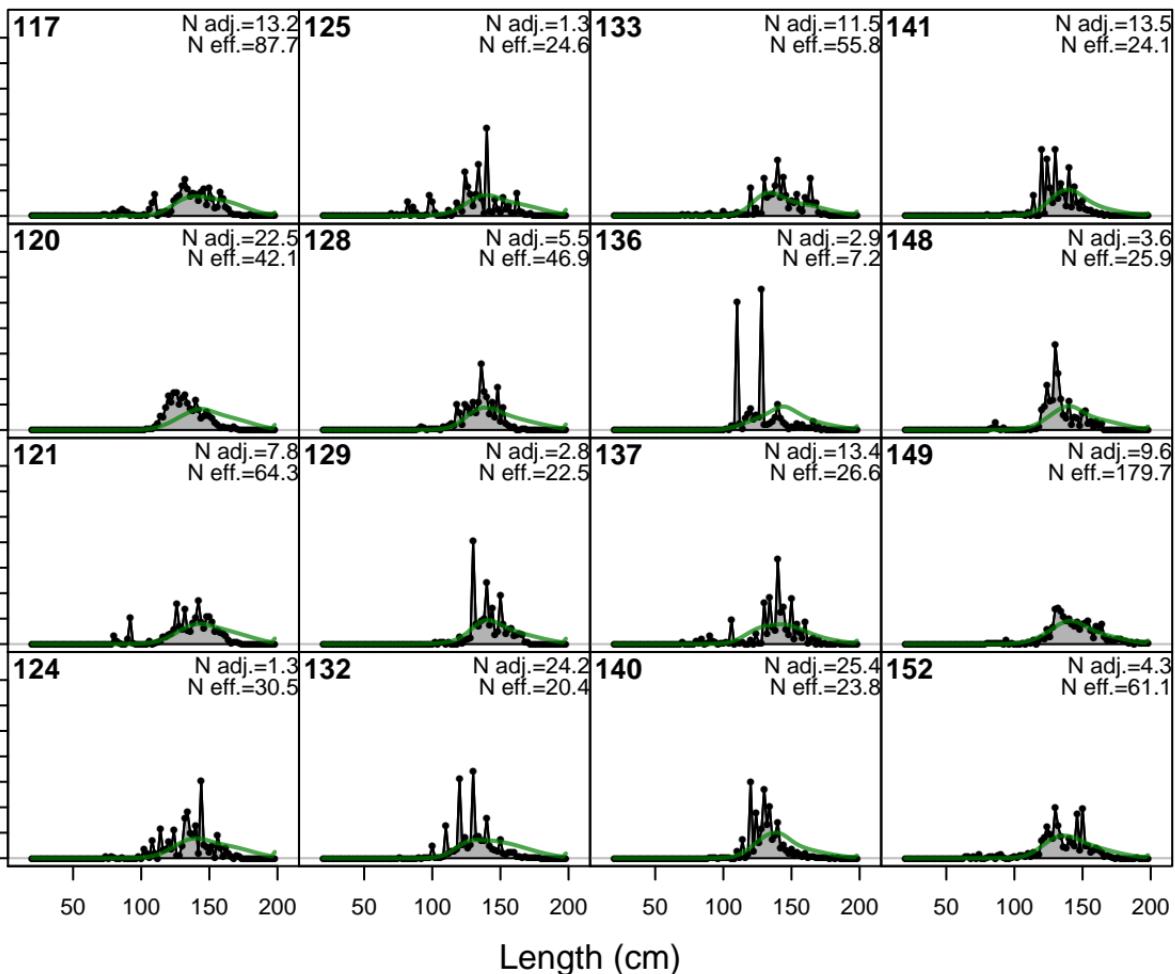
Proportion



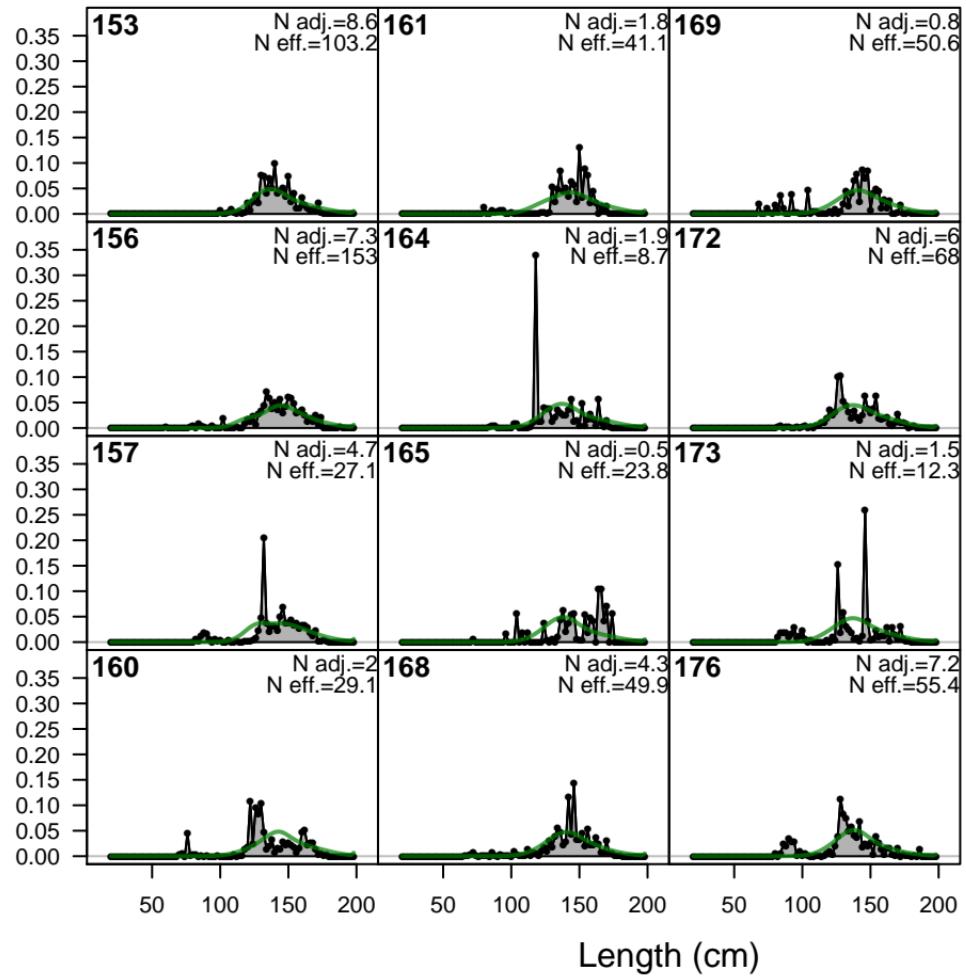
Proportion

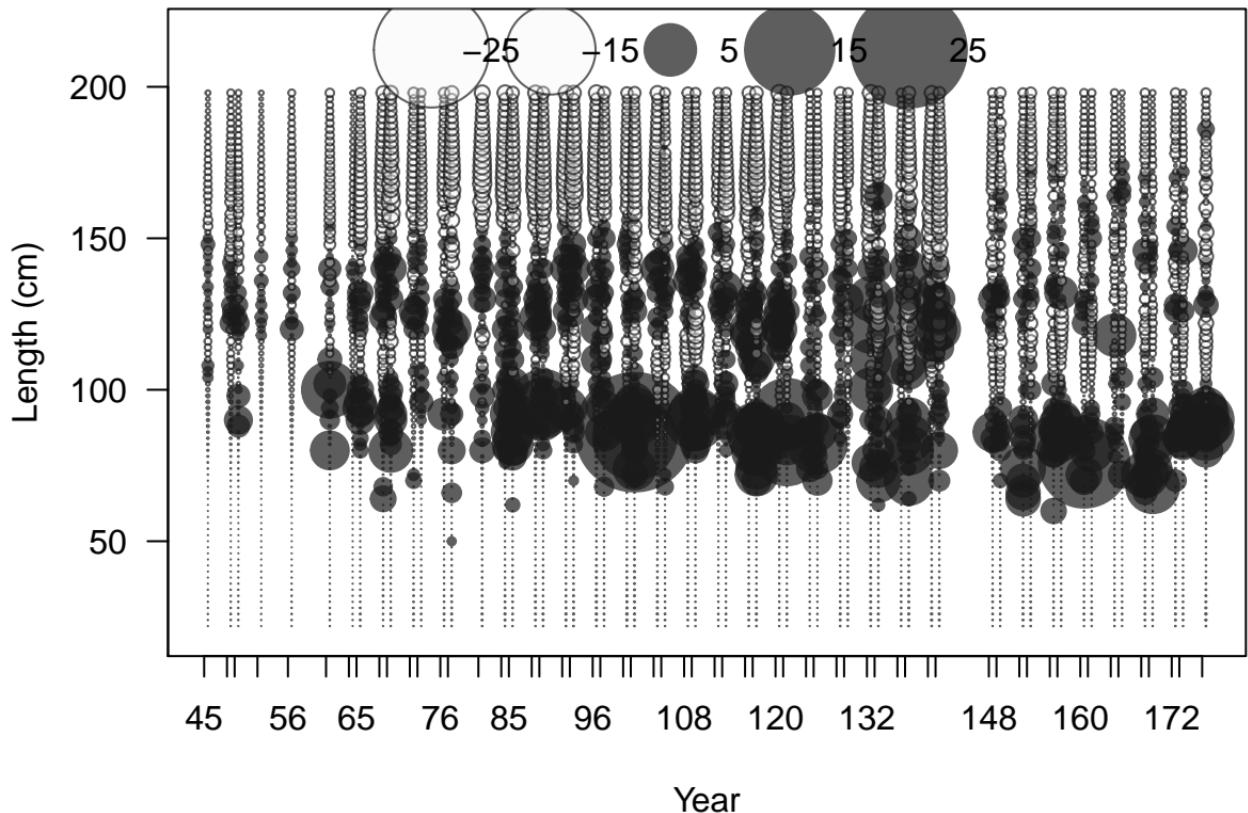


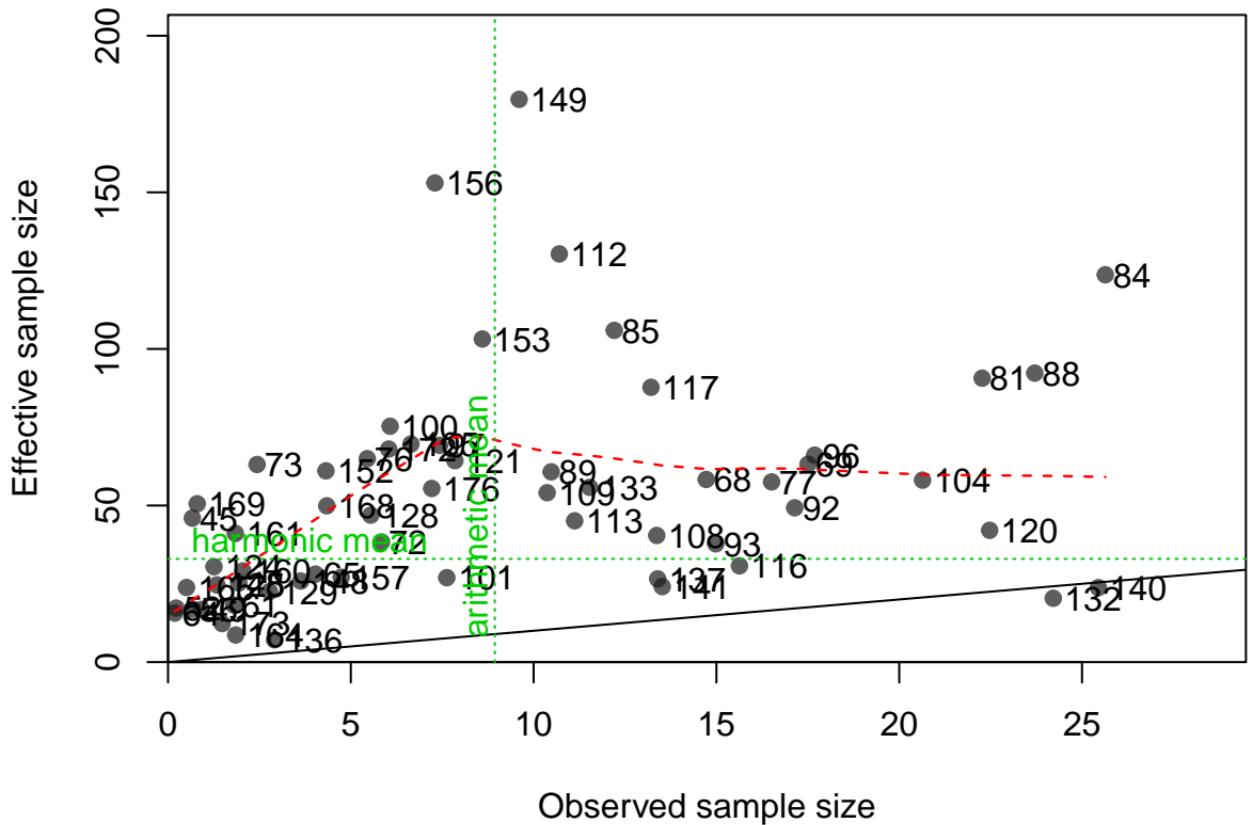
Proportion



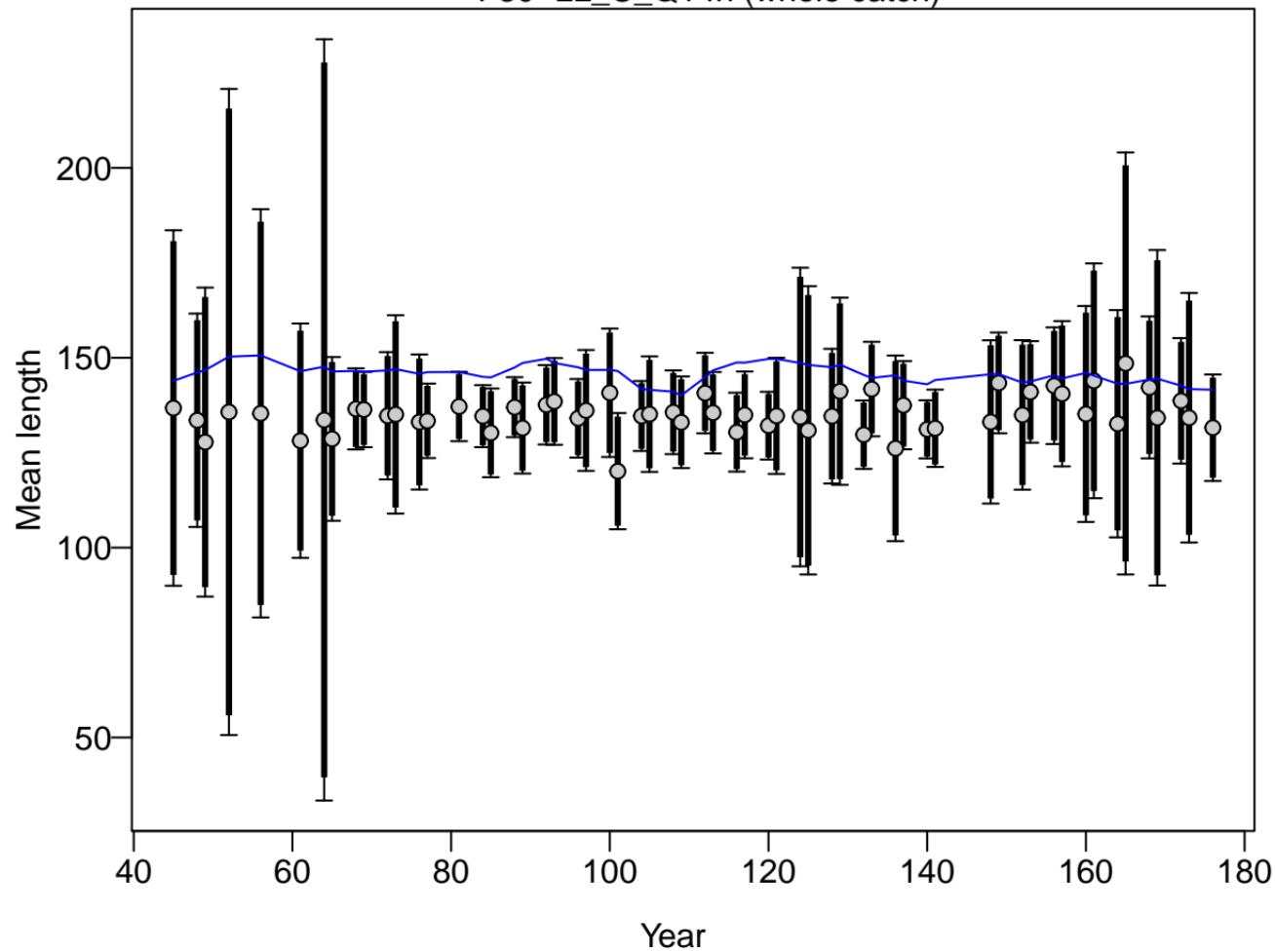
Proportion



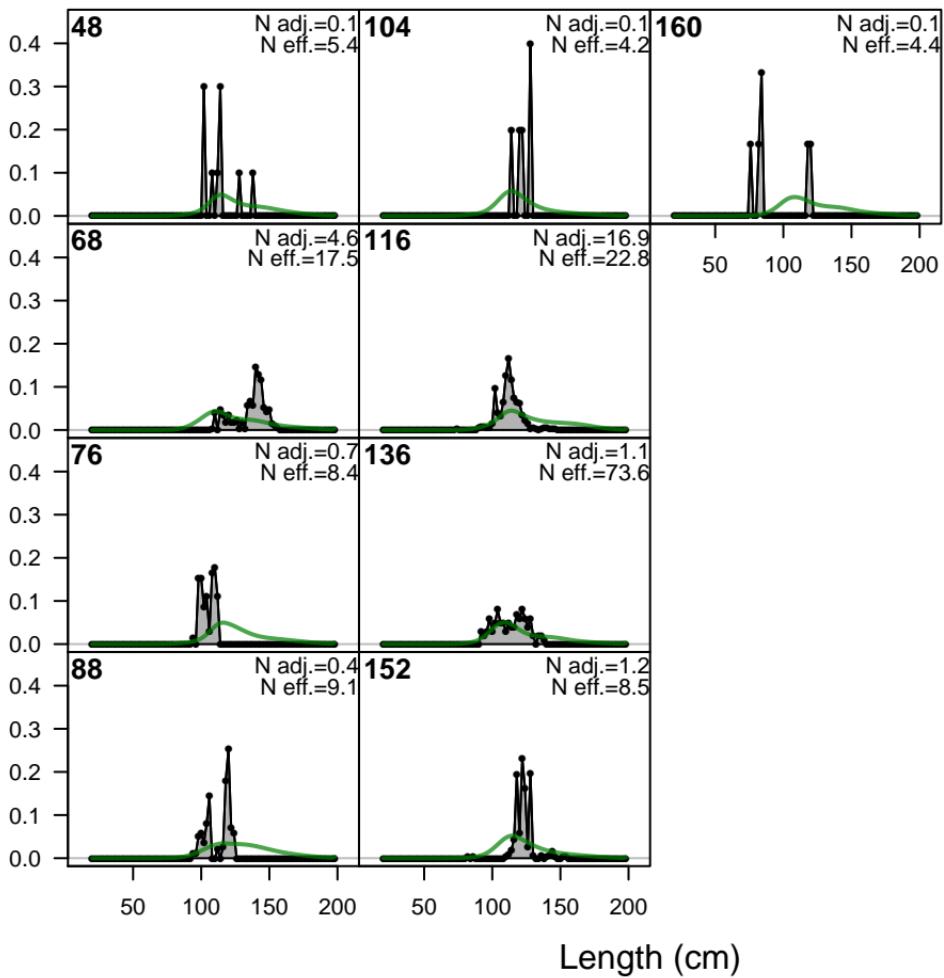


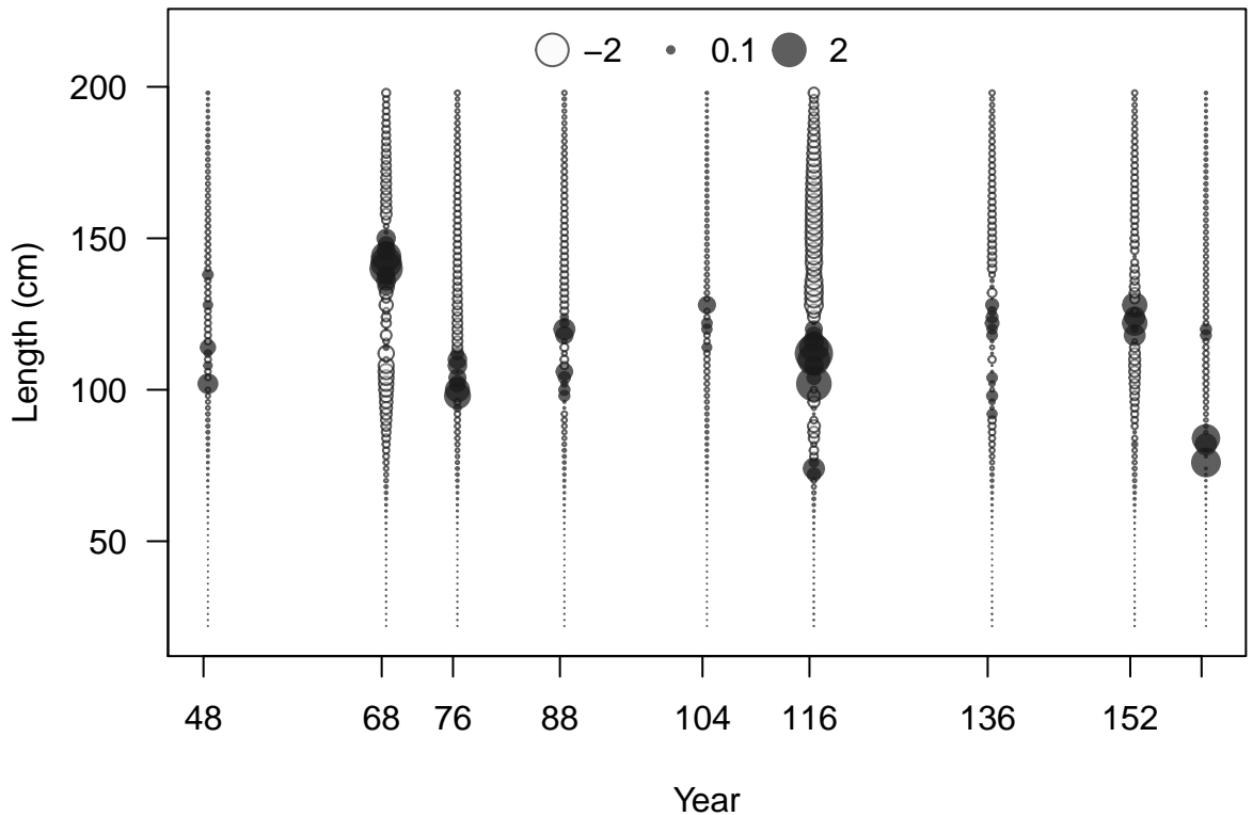


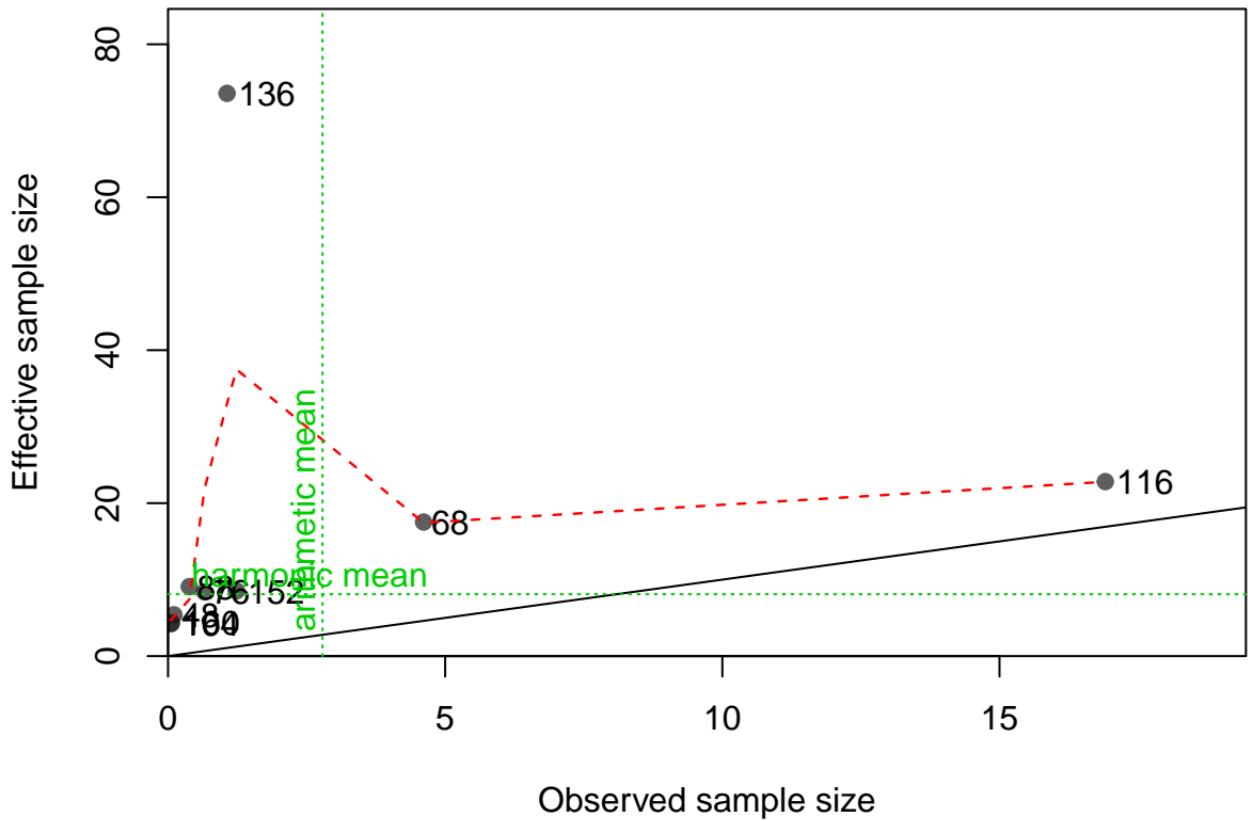
F30-LL_C_Q14n (whole catch)



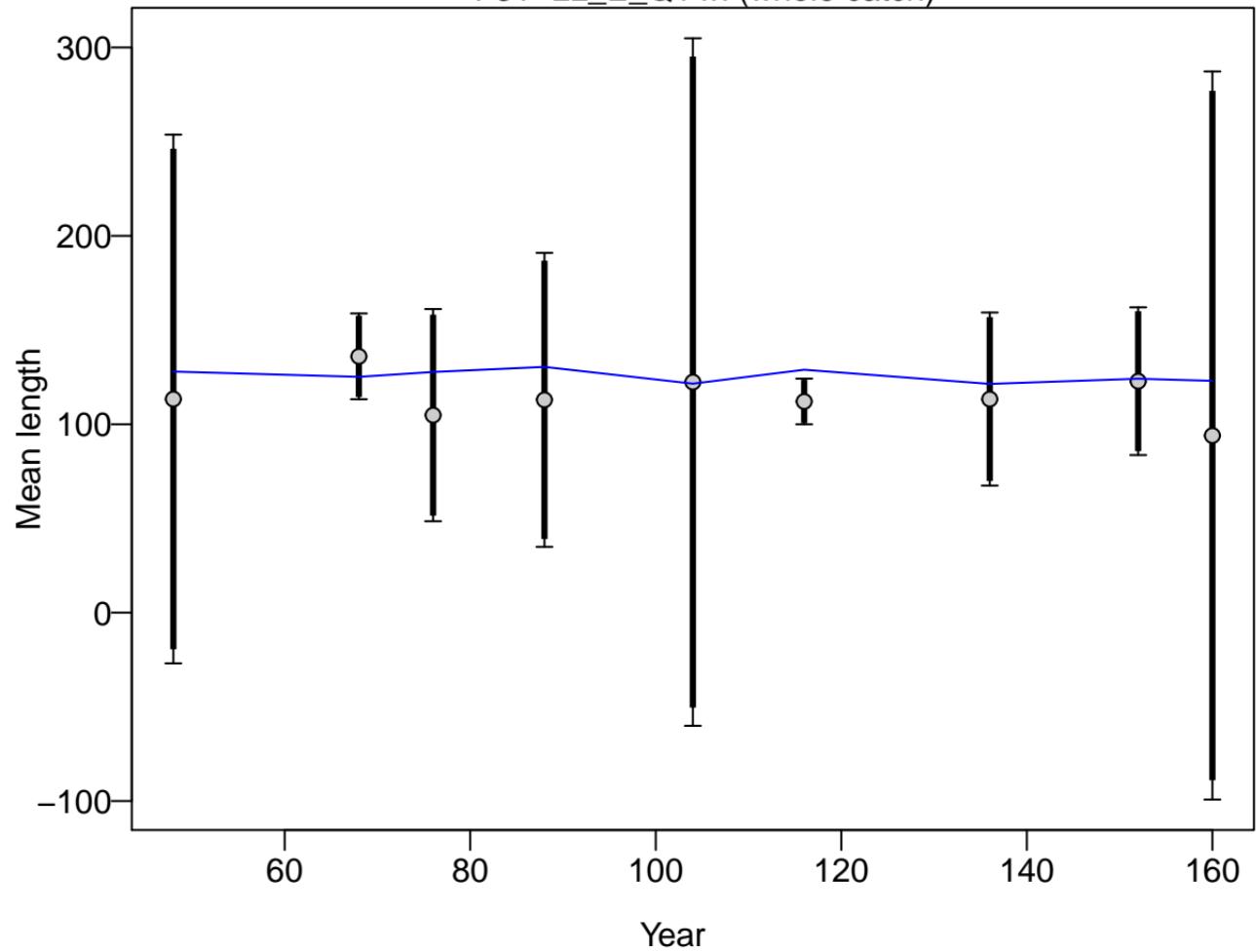
Proportion



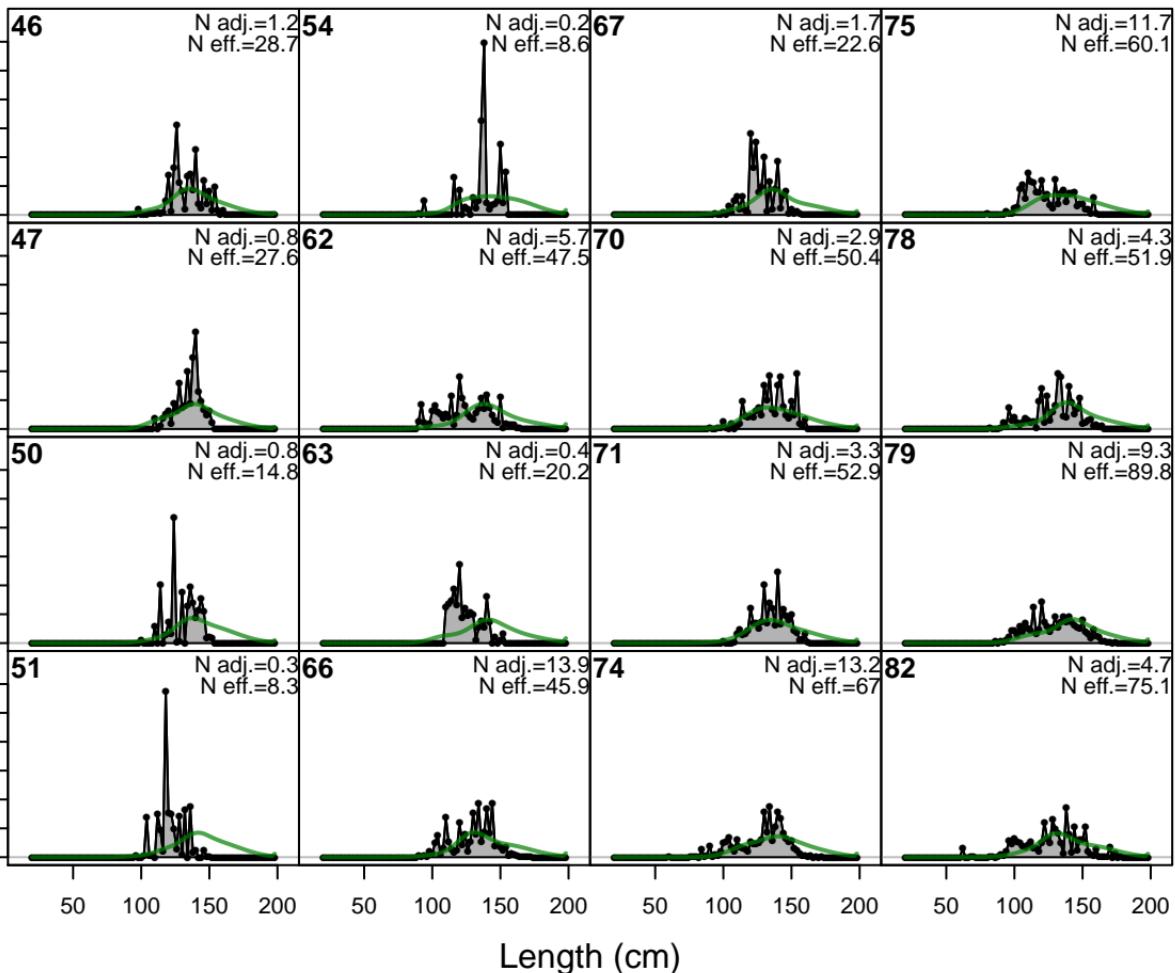




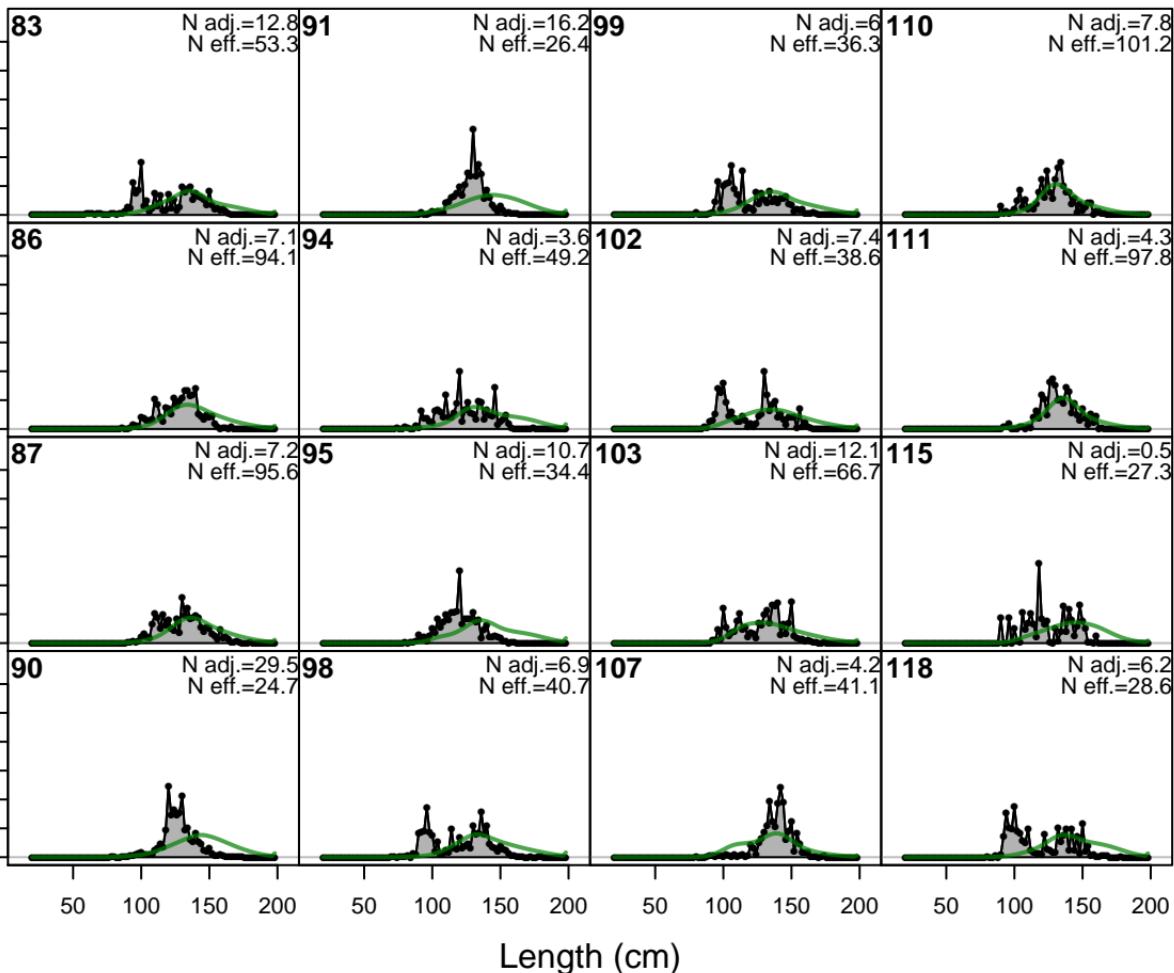
F31-LL_E_Q14n (whole catch)



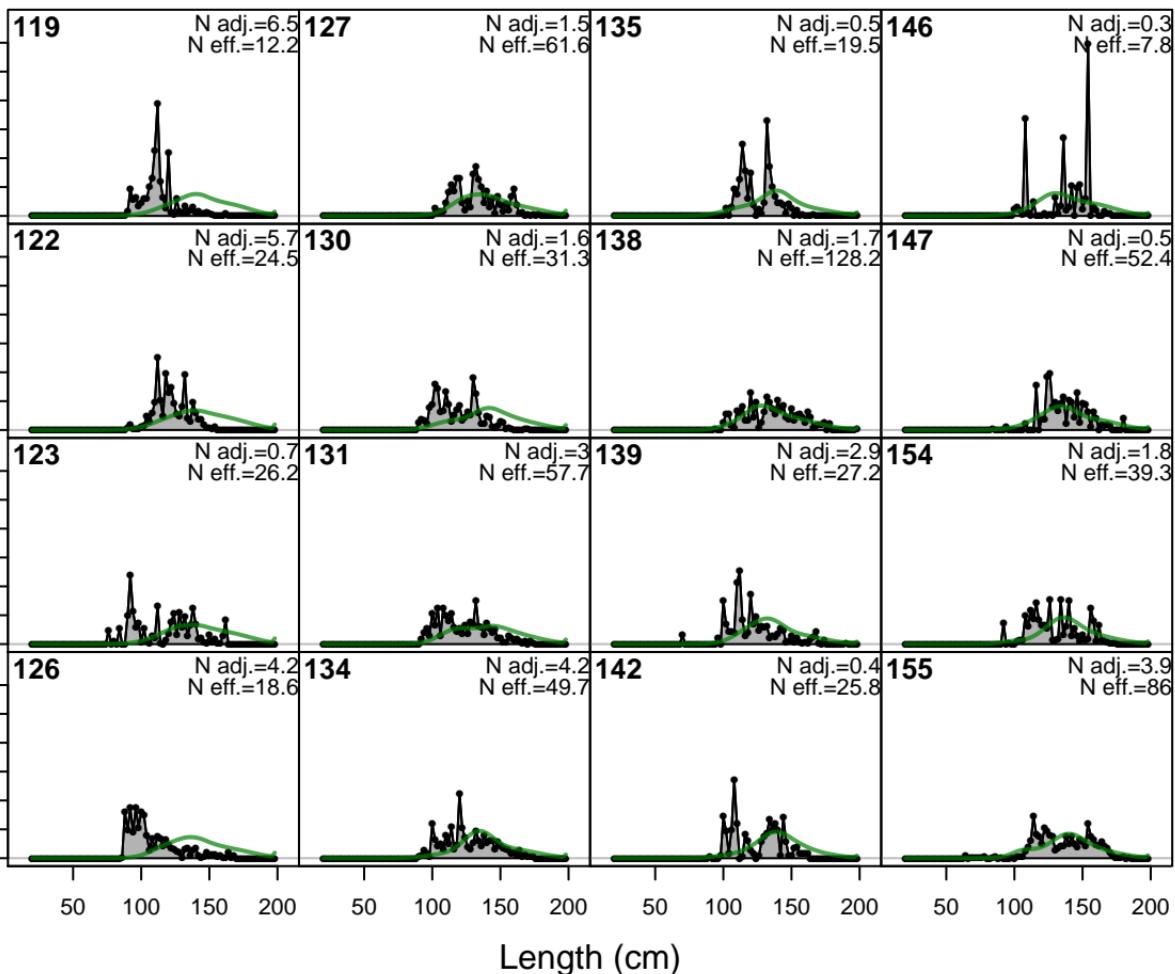
Proportion



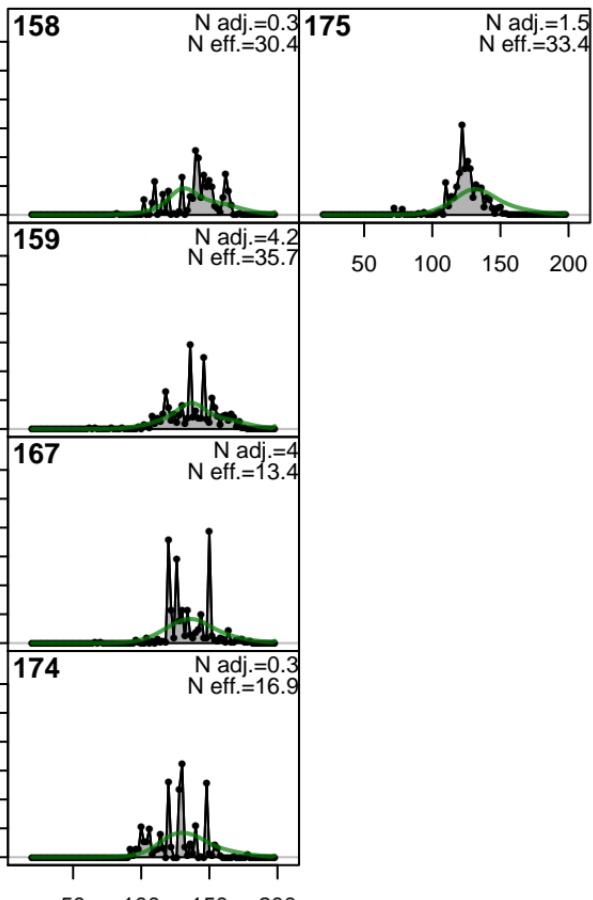
Proportion



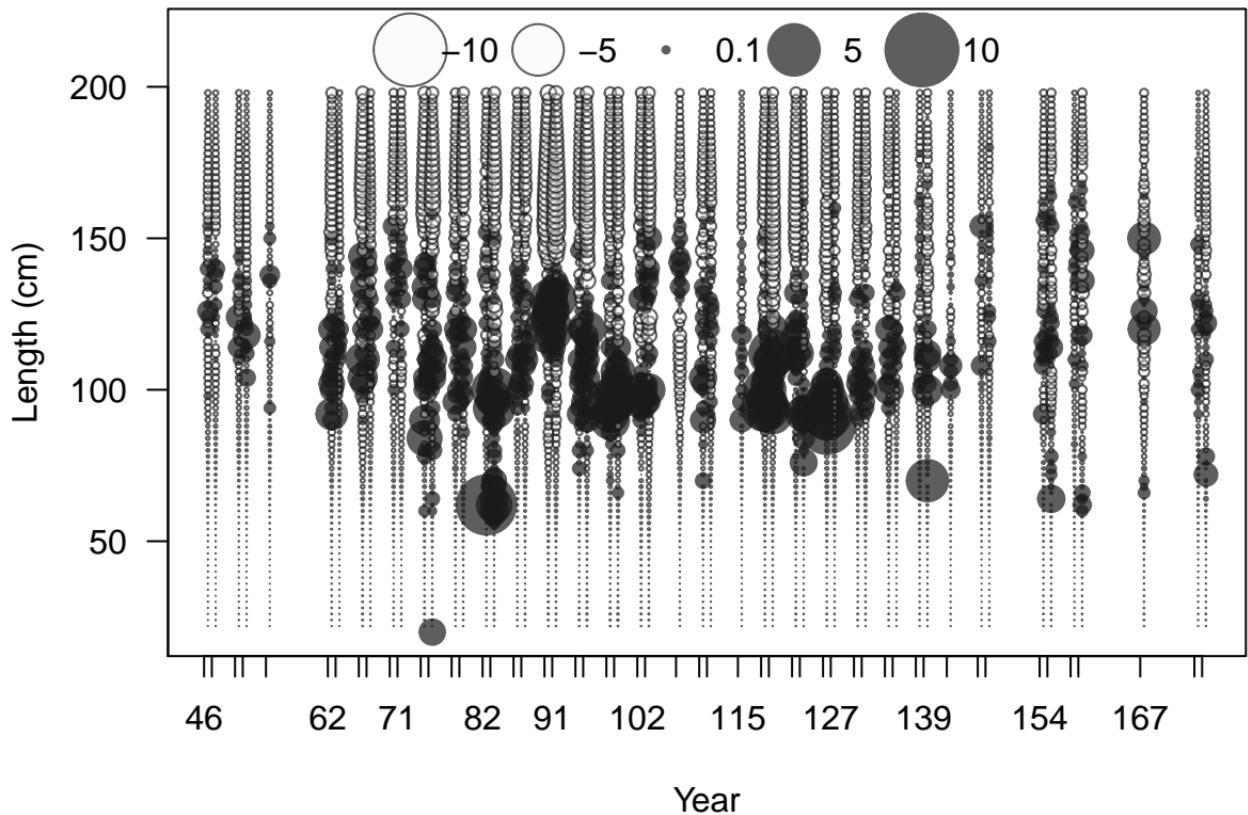
Proportion

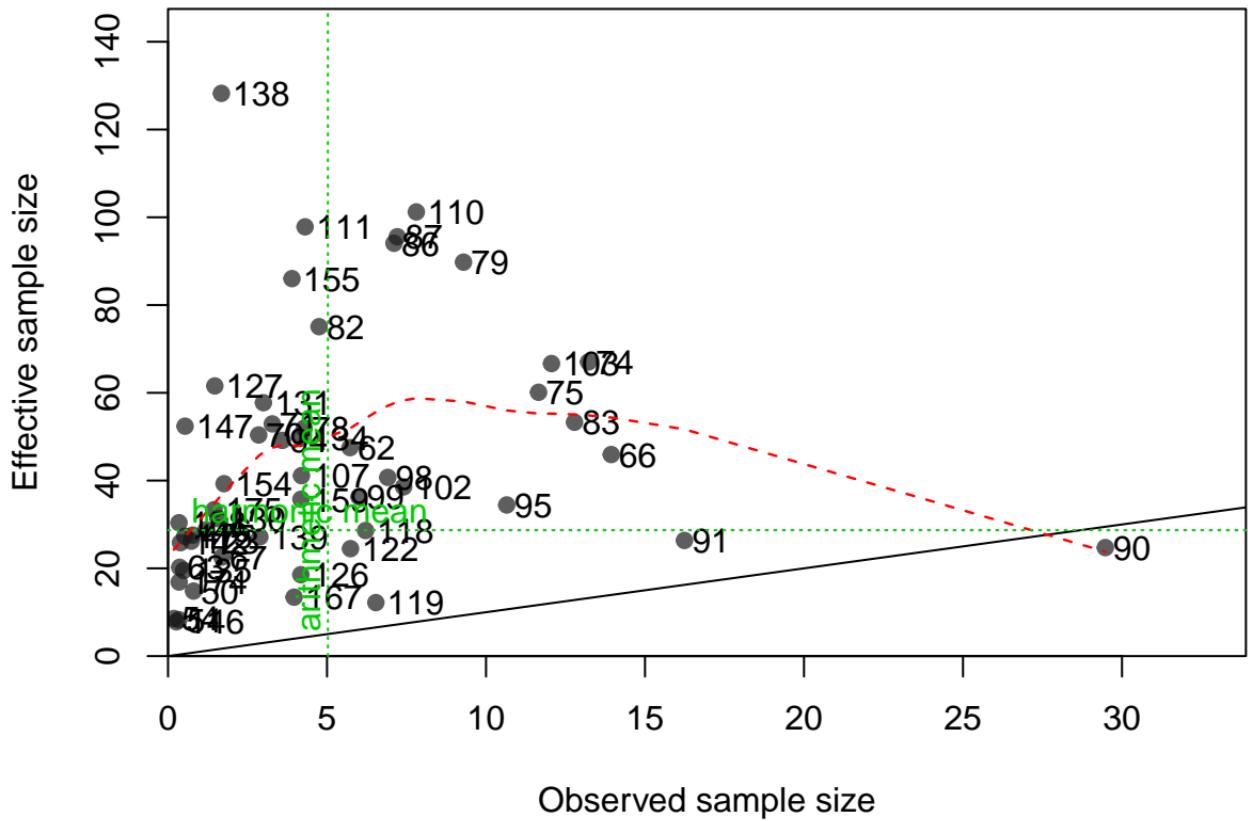


Proportion

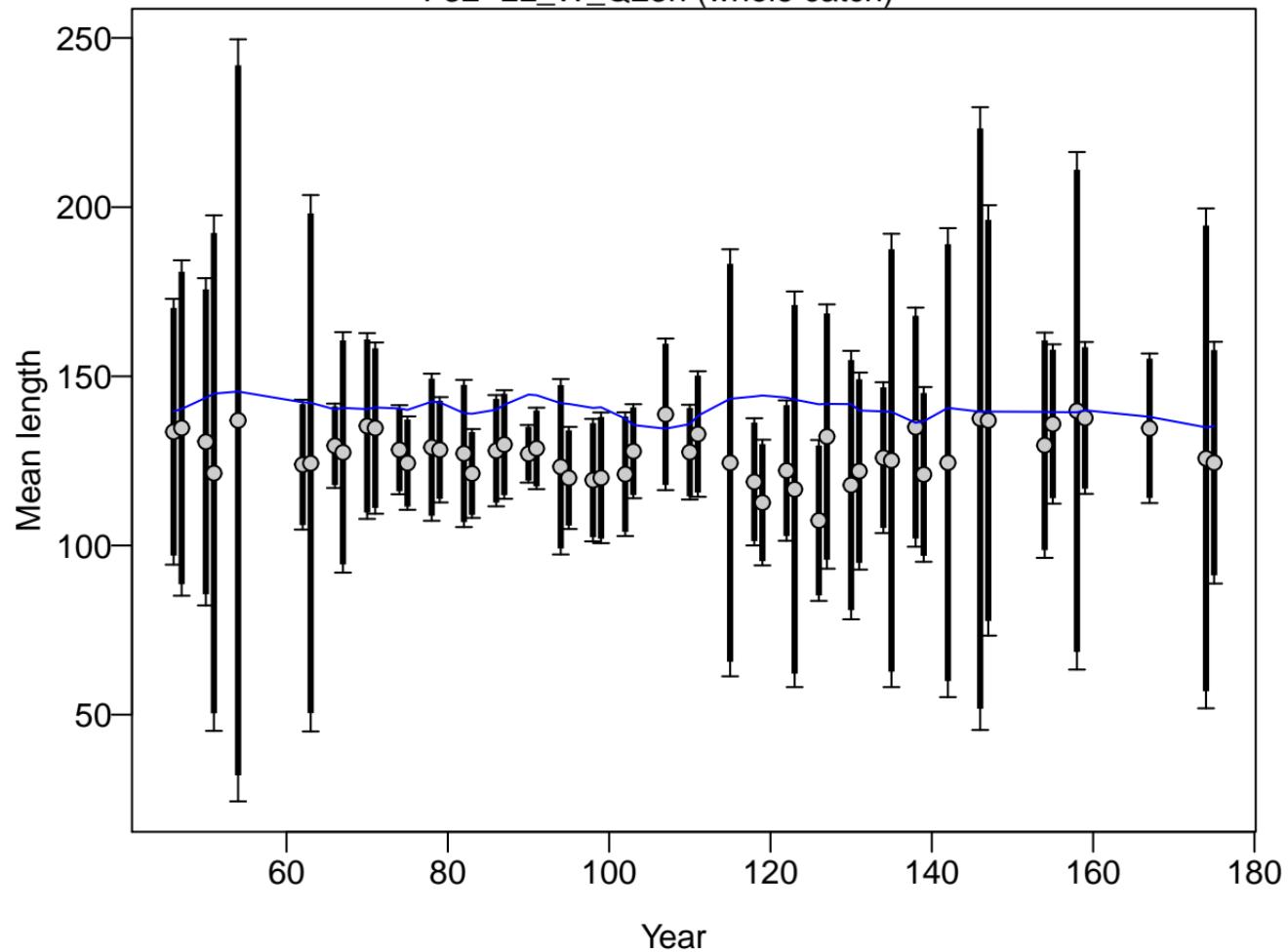


Length (cm)

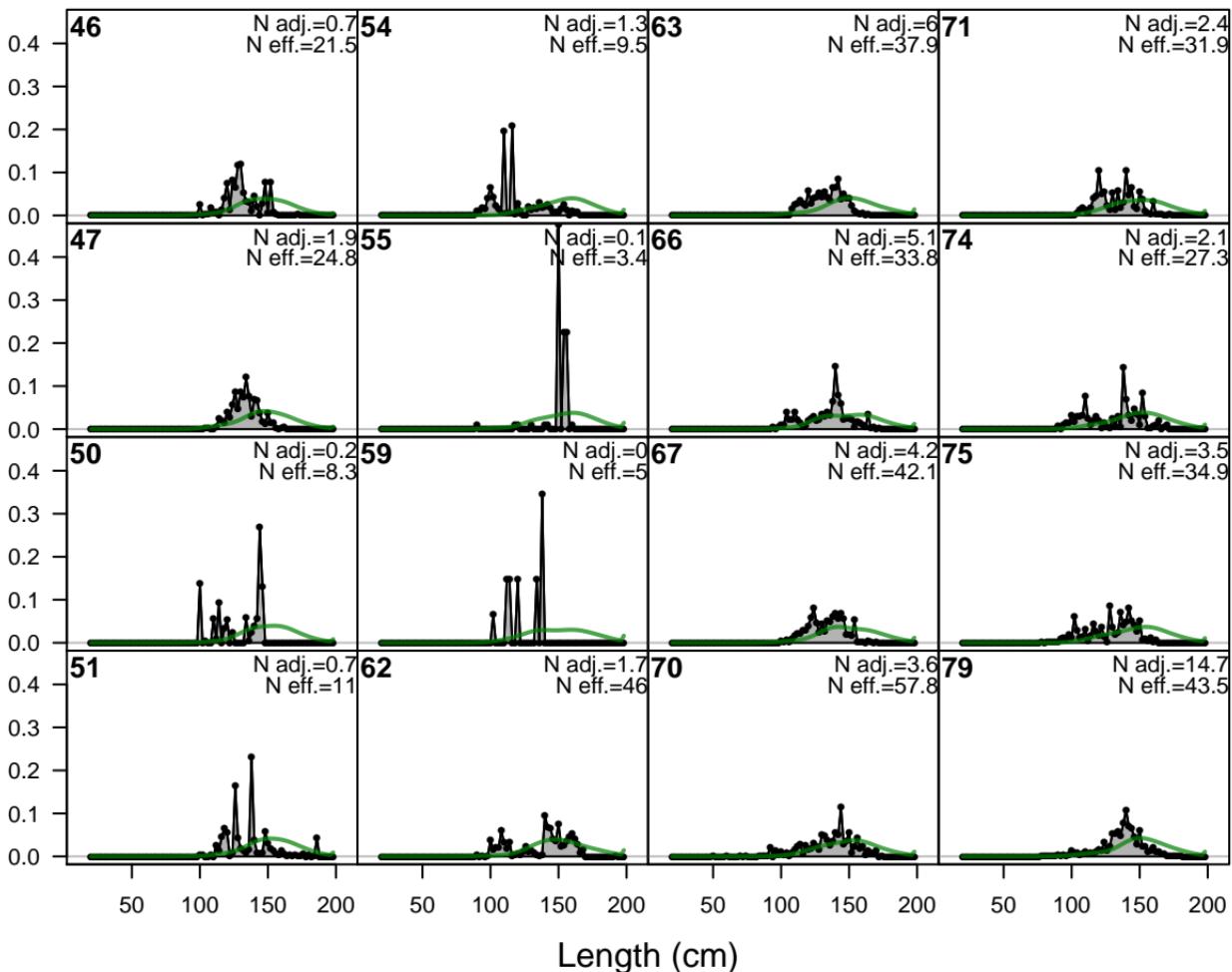




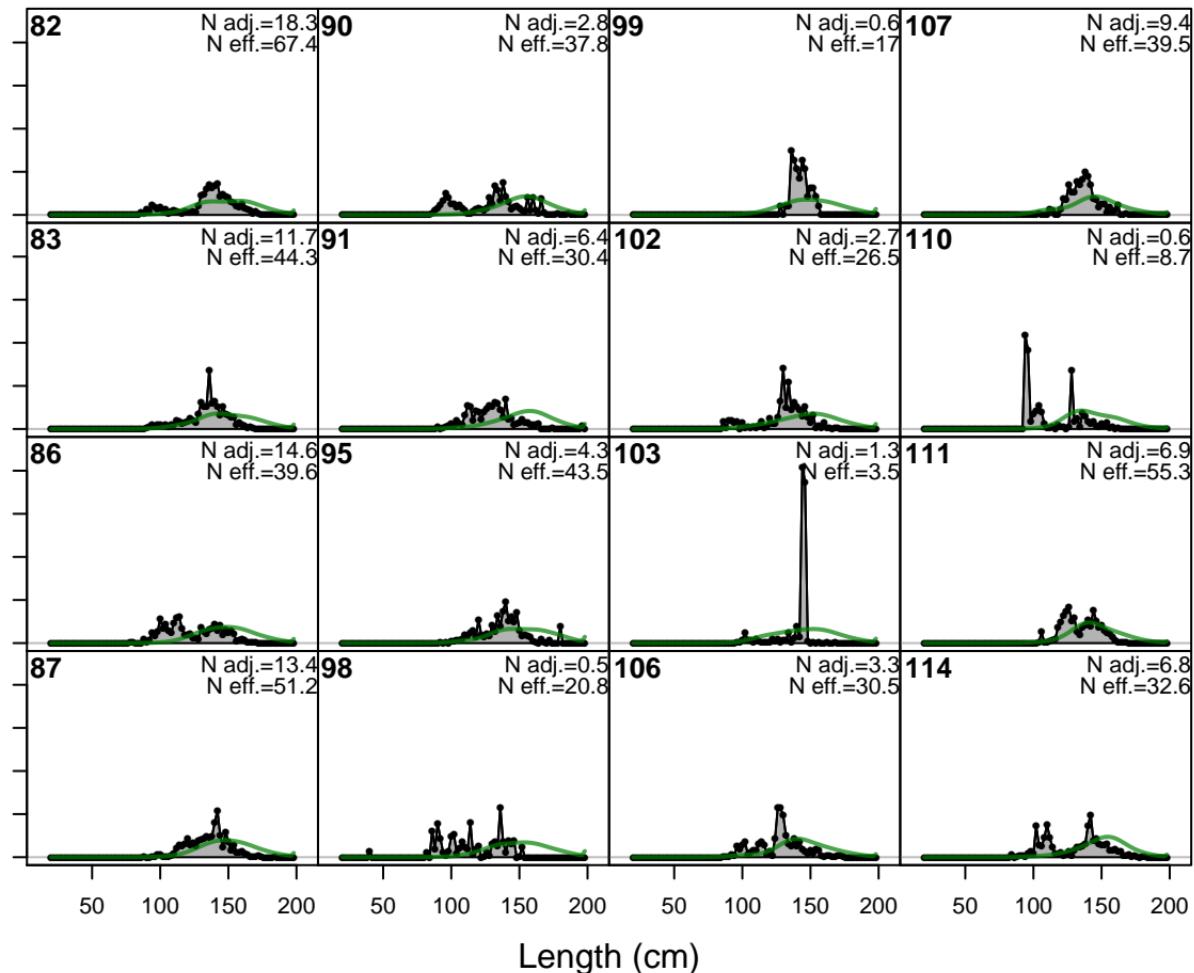
F32-LL_W_Q23n (whole catch)



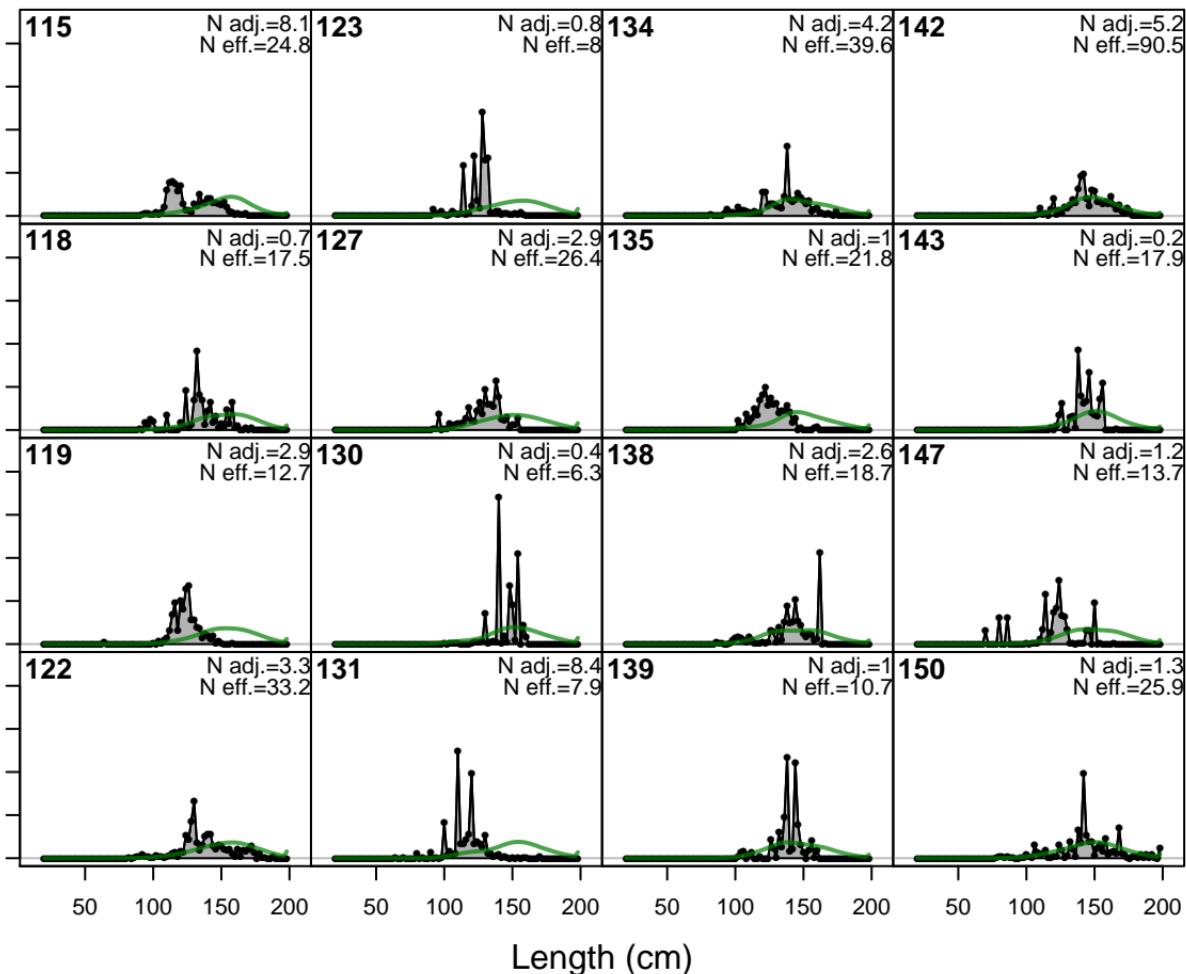
Proportion



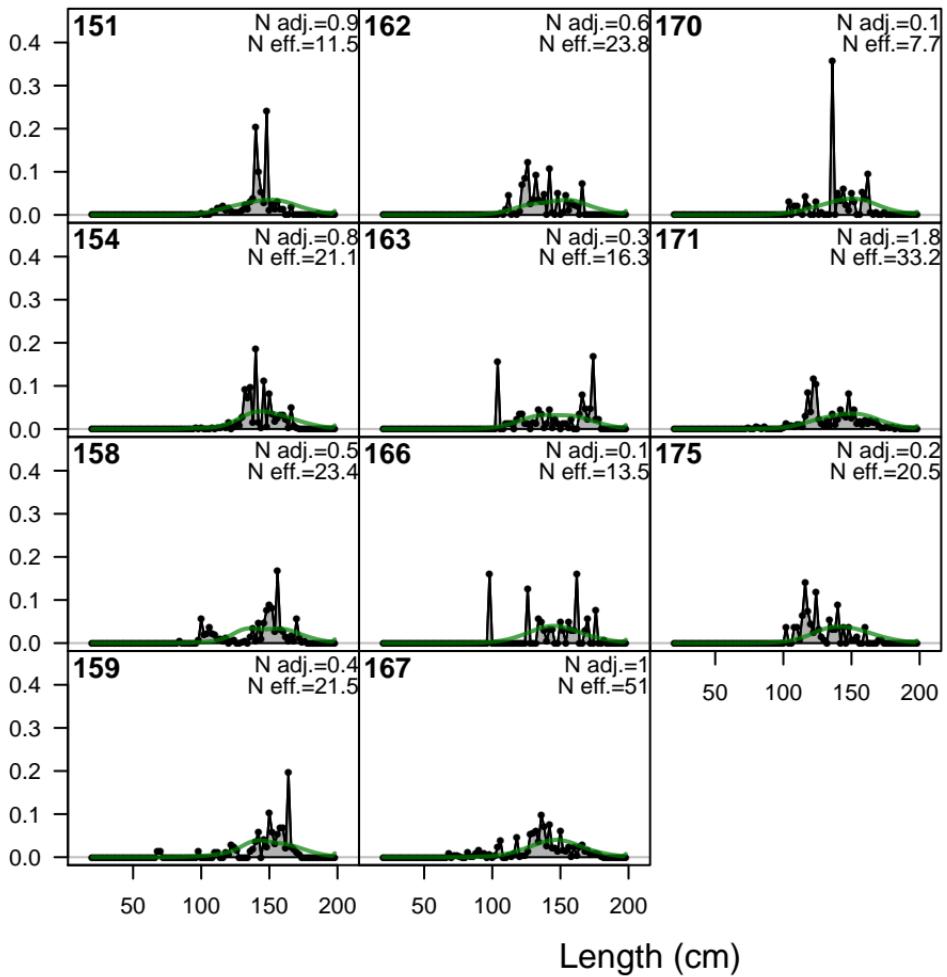
Proportion

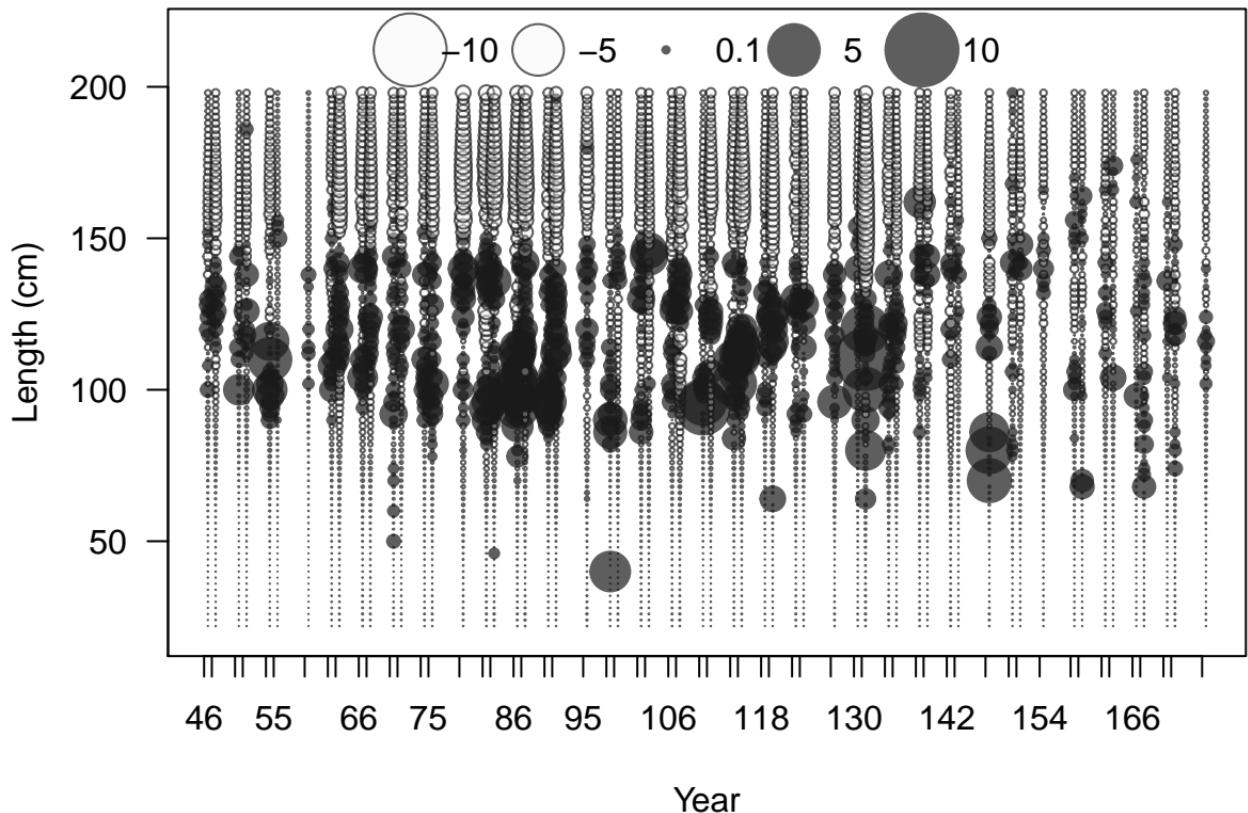


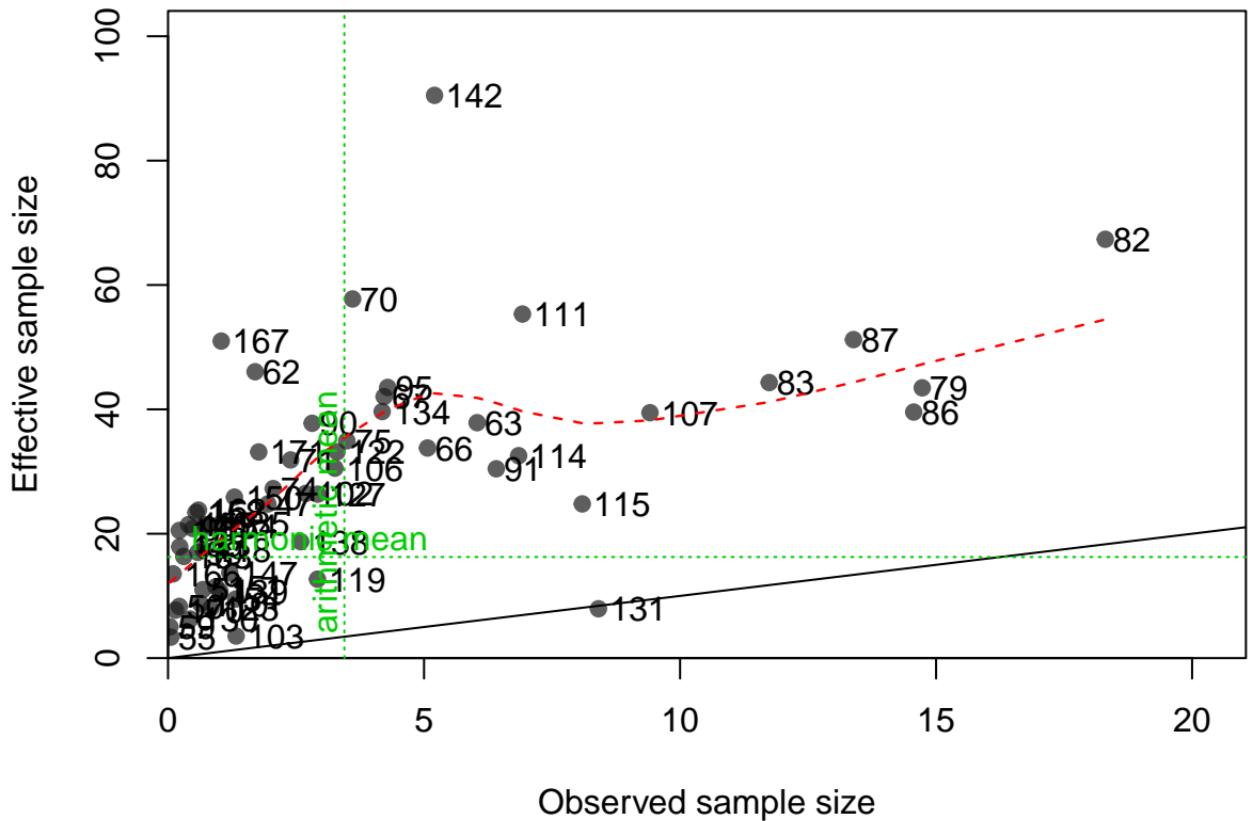
Proportion



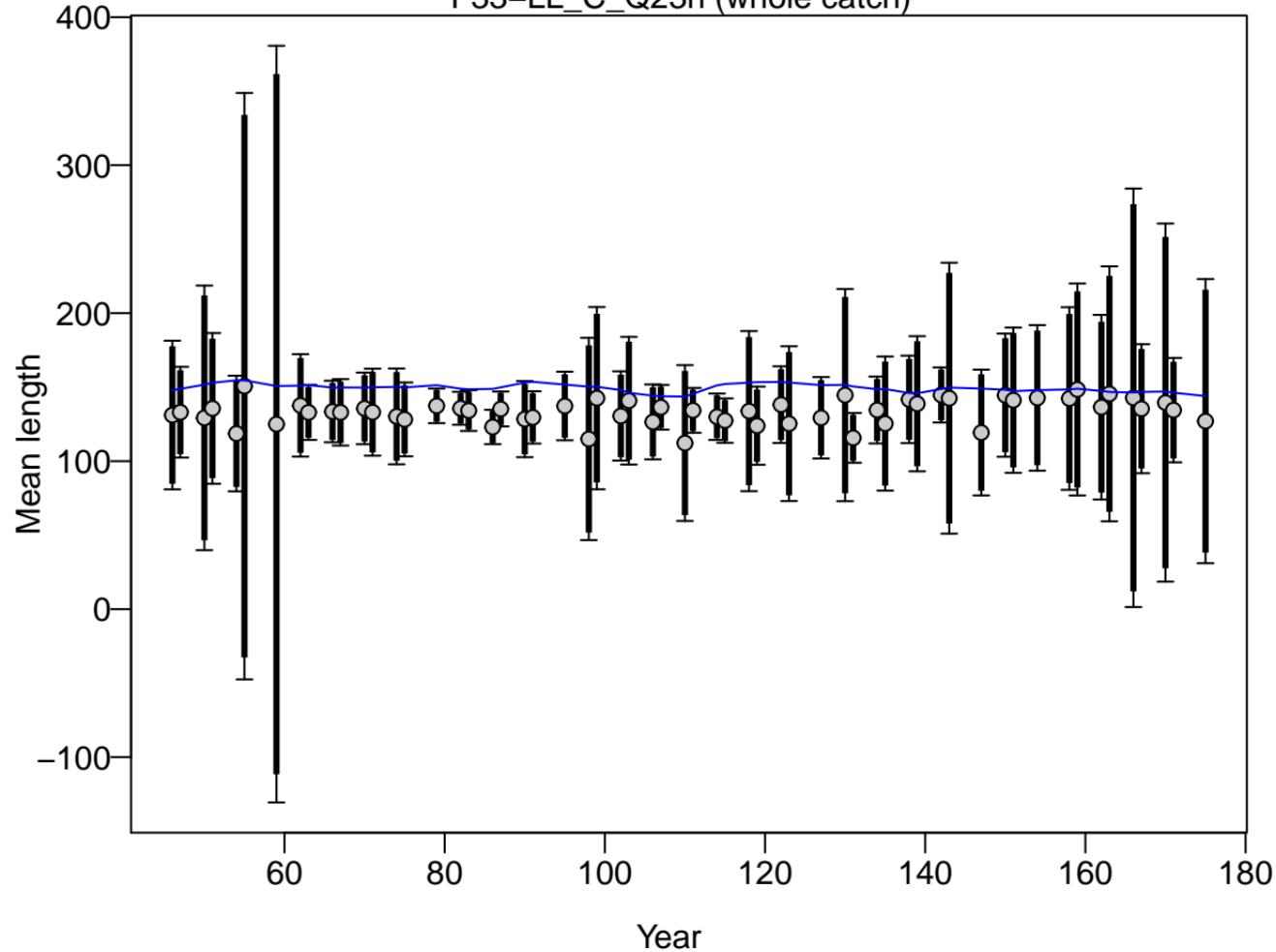
Proportion



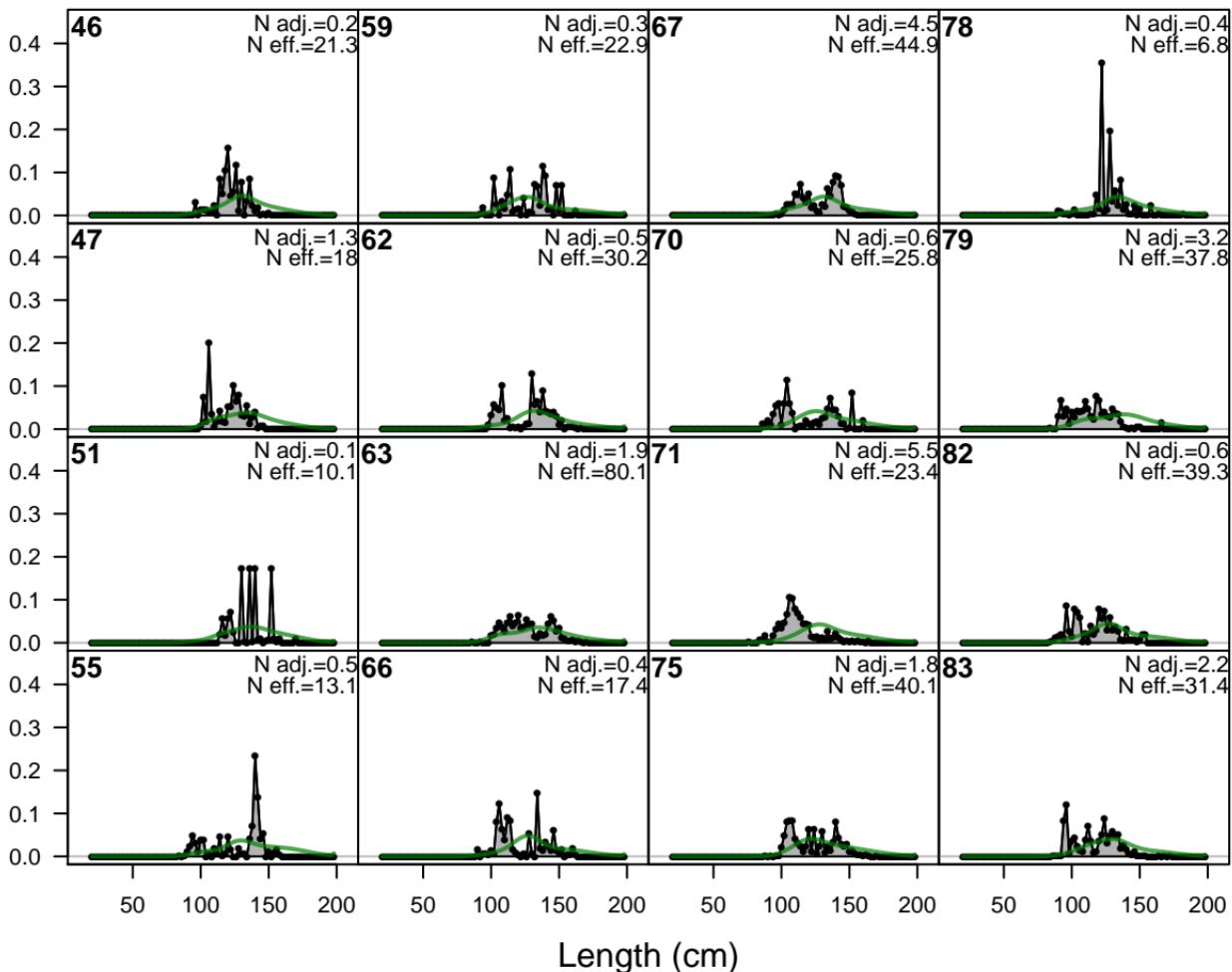




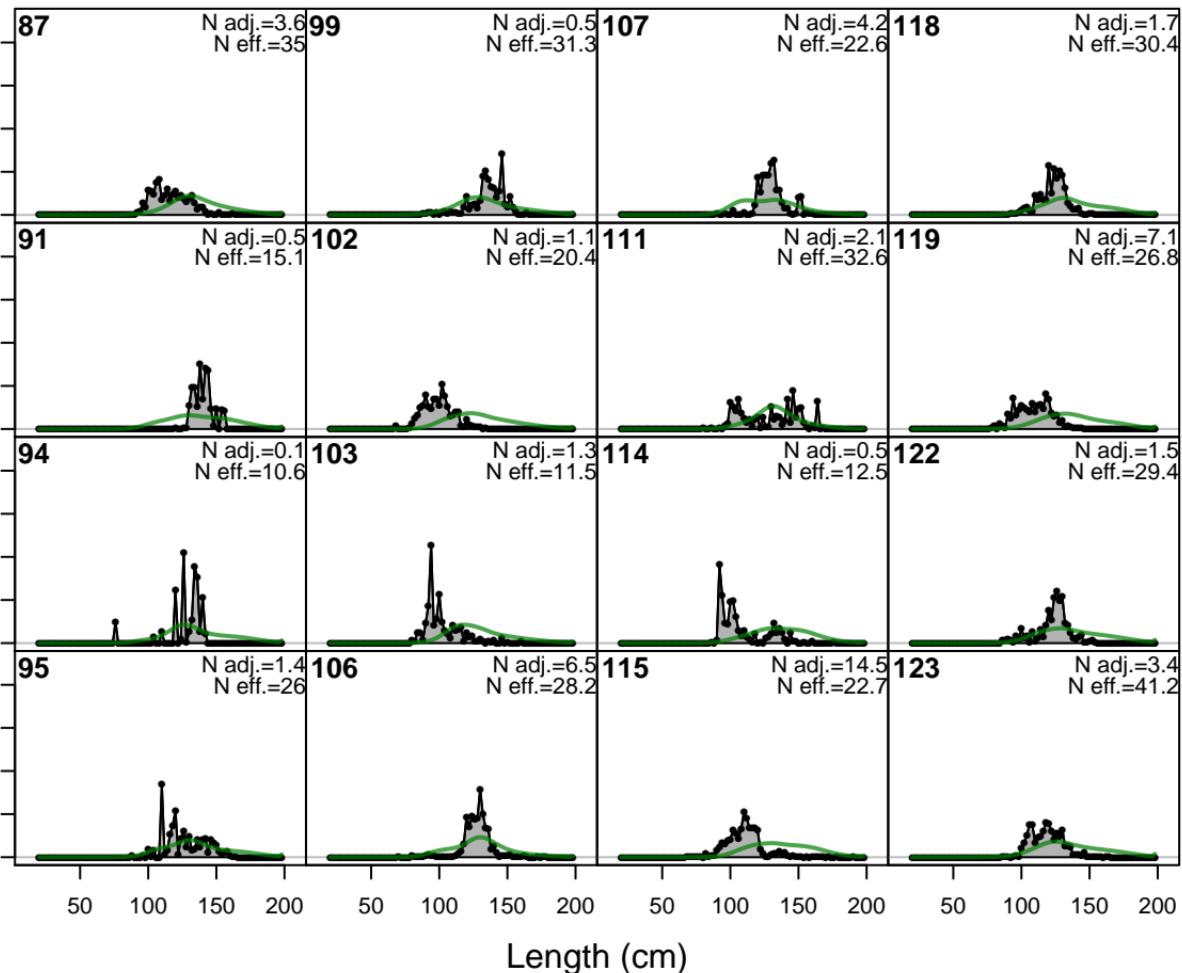
F33-LL_C_Q23n (whole catch)



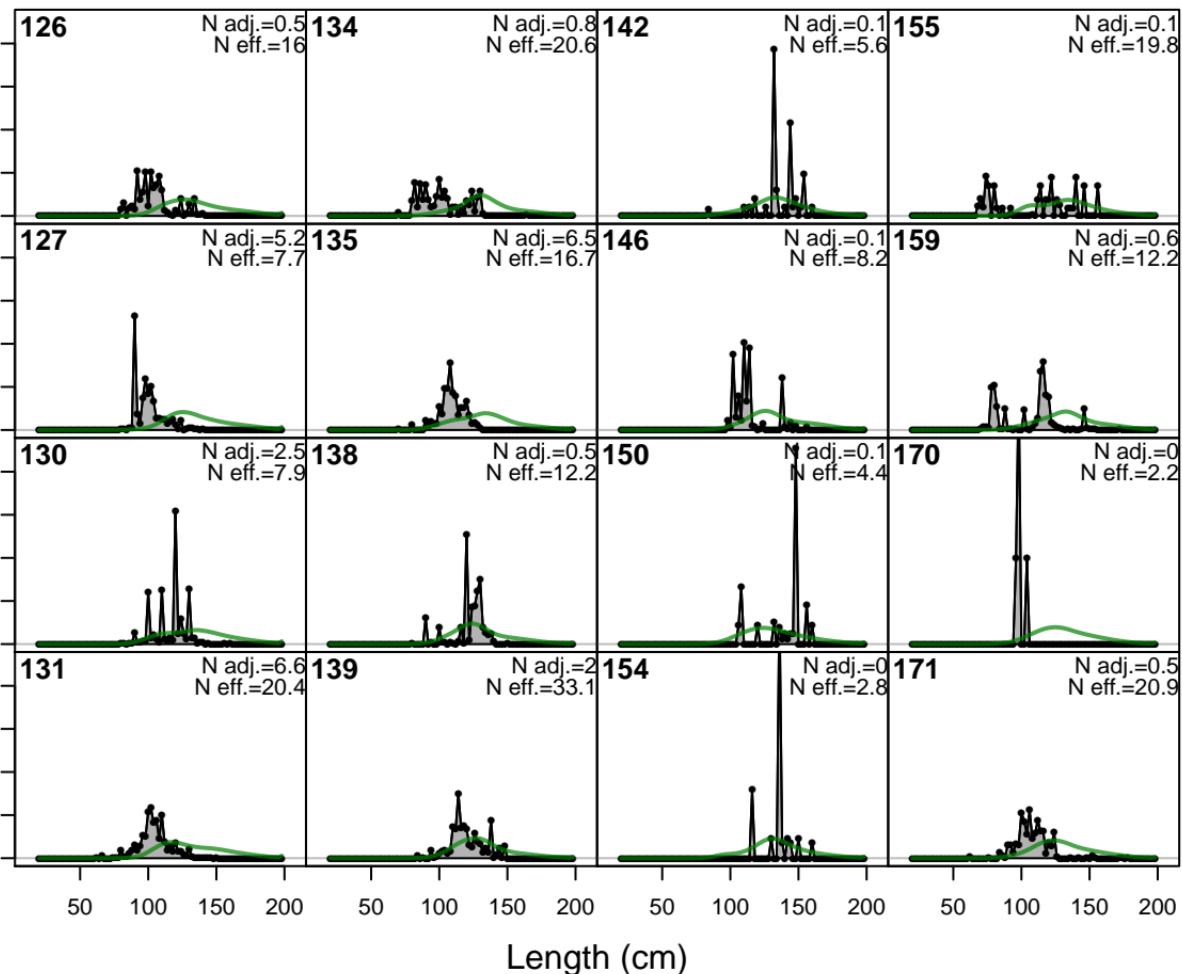
Proportion



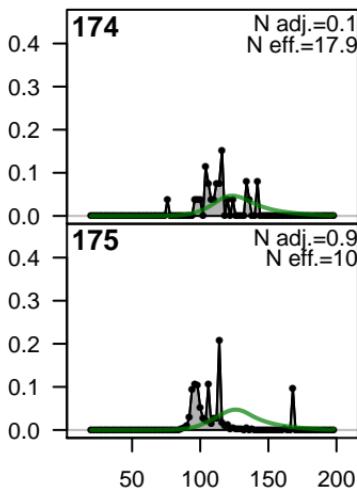
Proportion



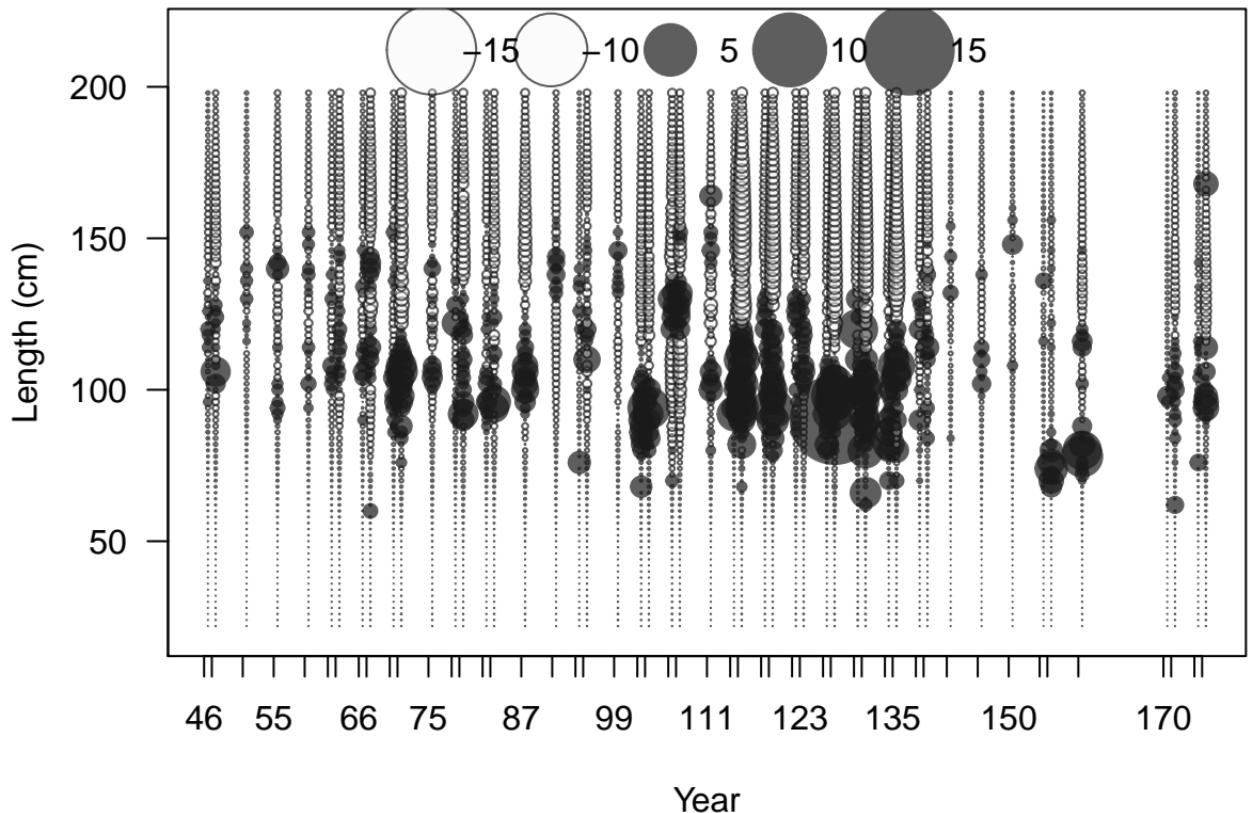
Proportion

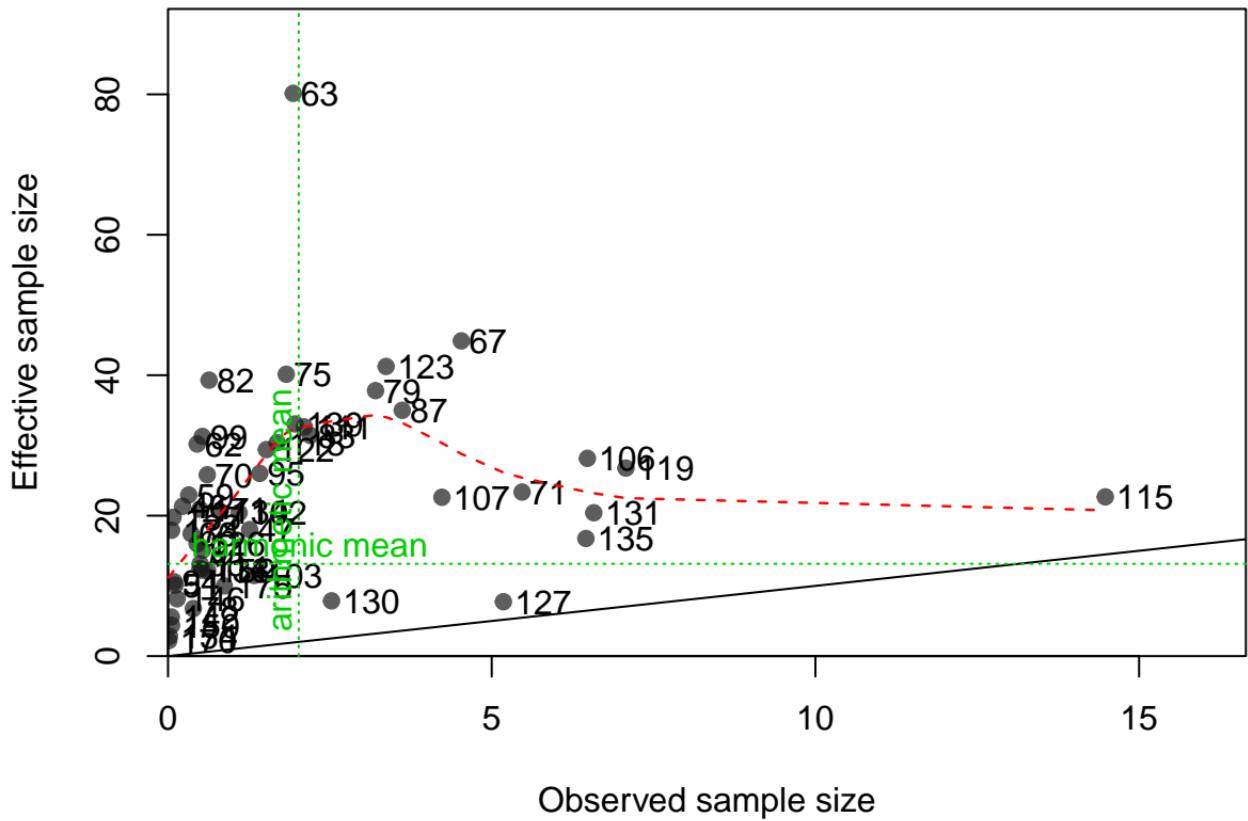


Proportion

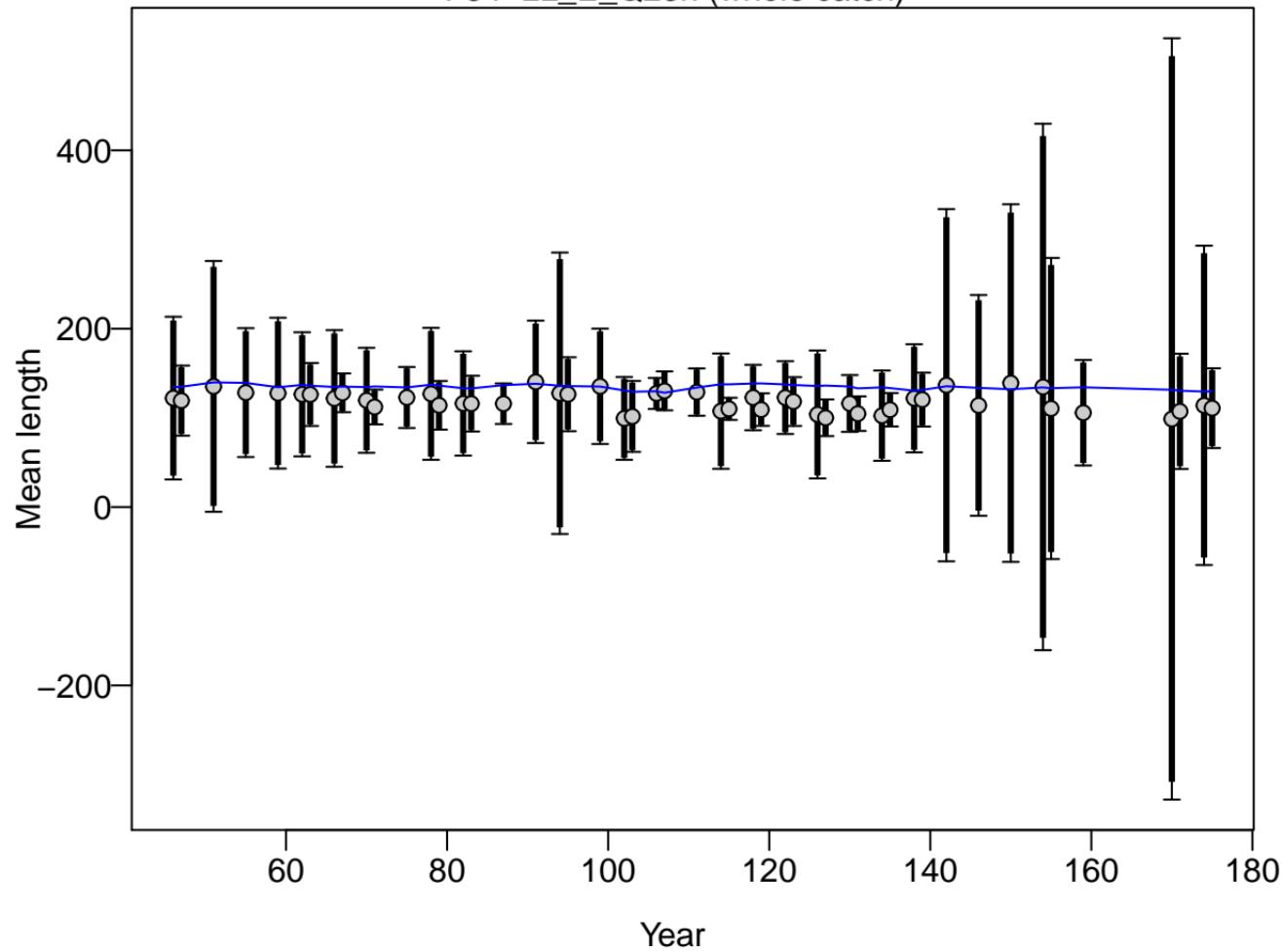


Length (cm)

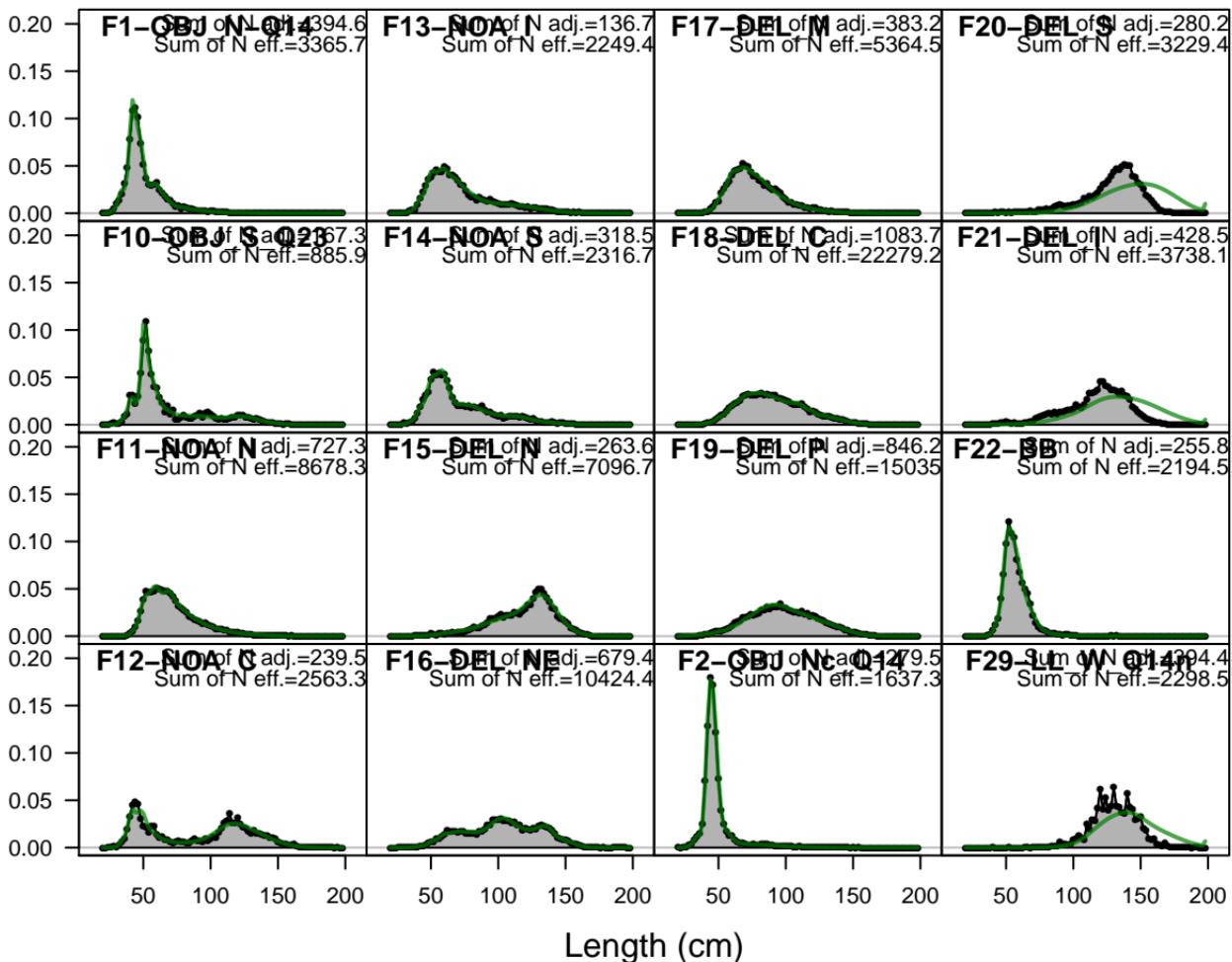




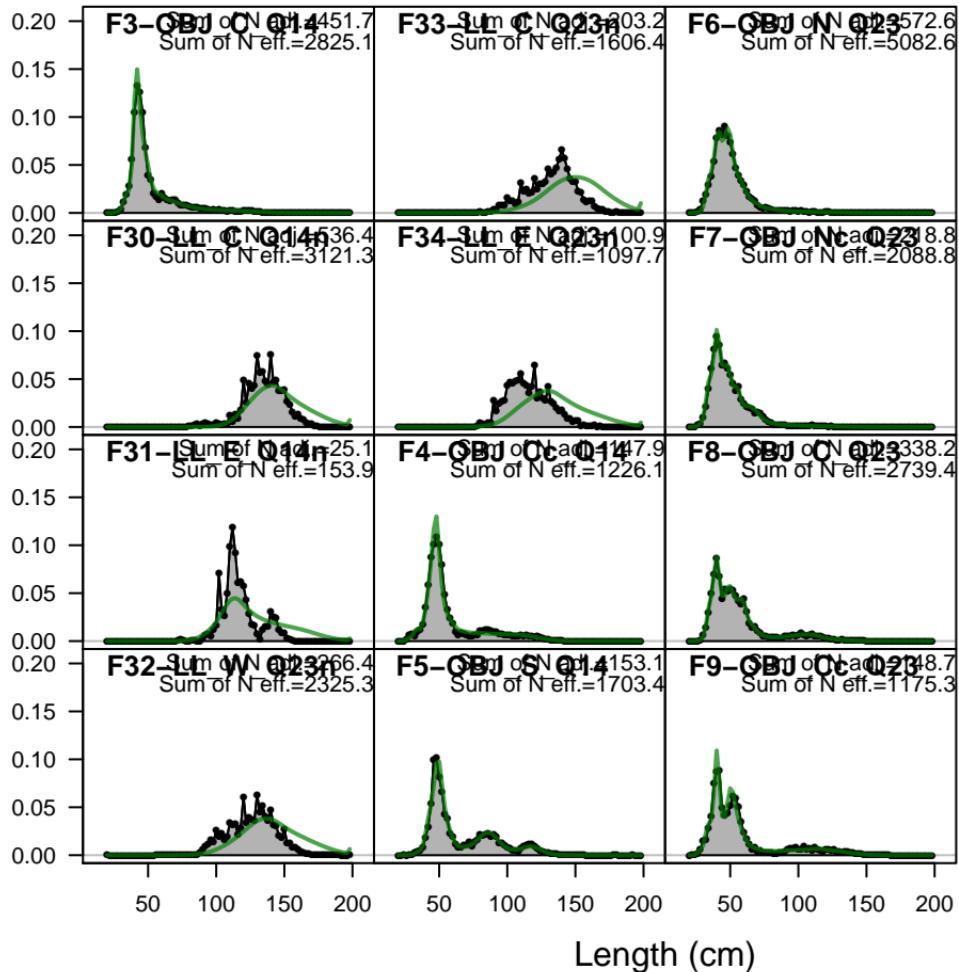
F34-LL_E_Q23n (whole catch)

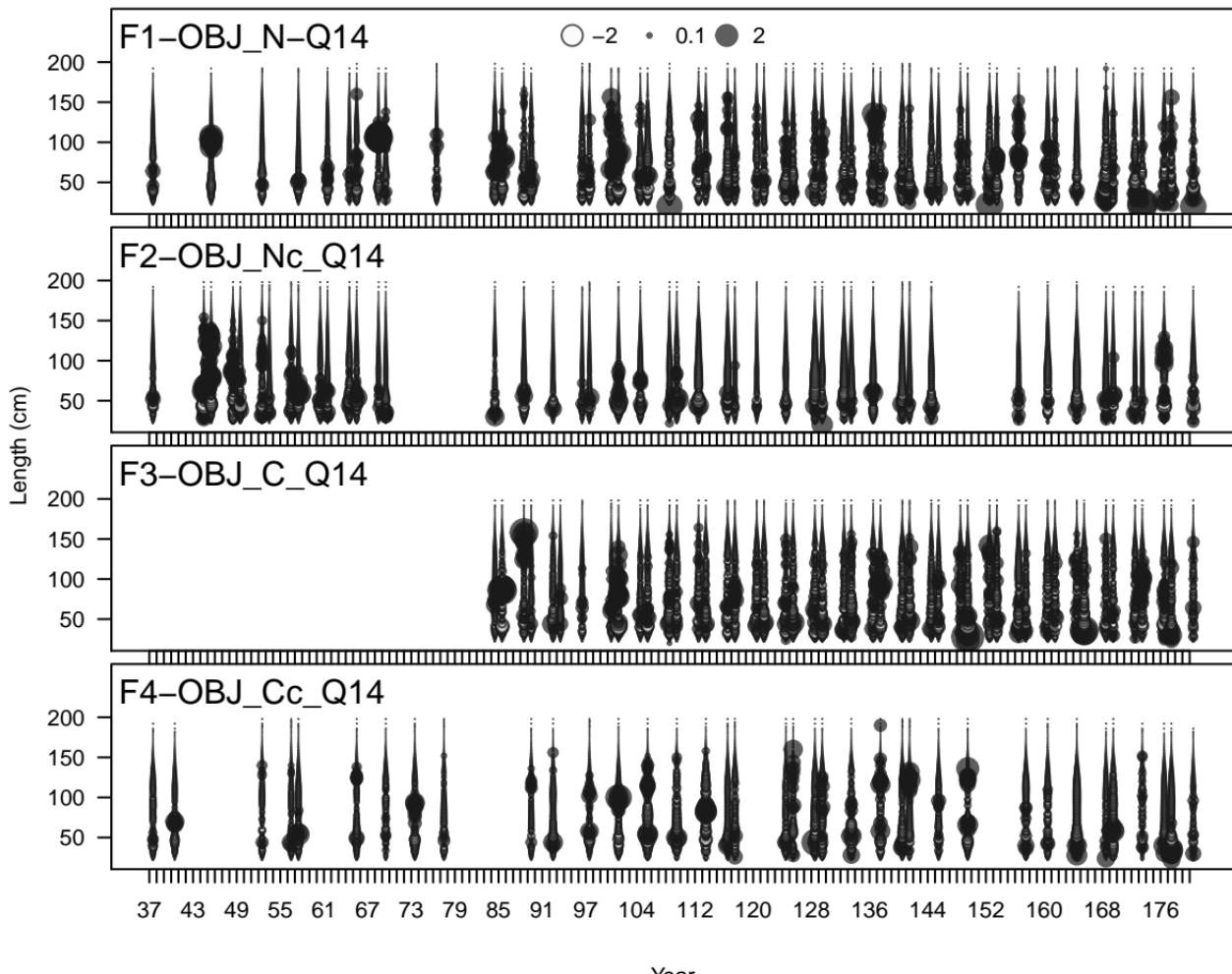


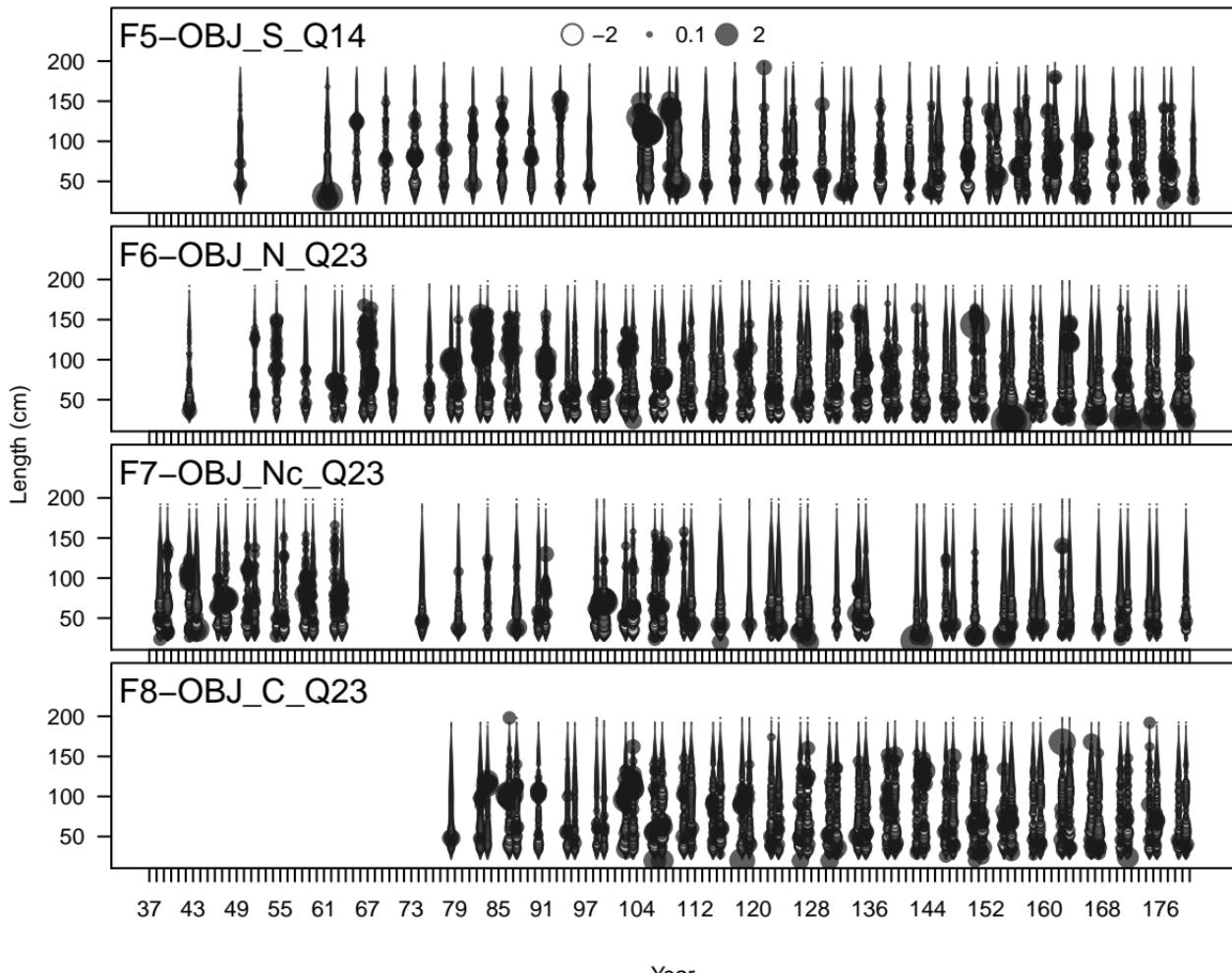
Proportion

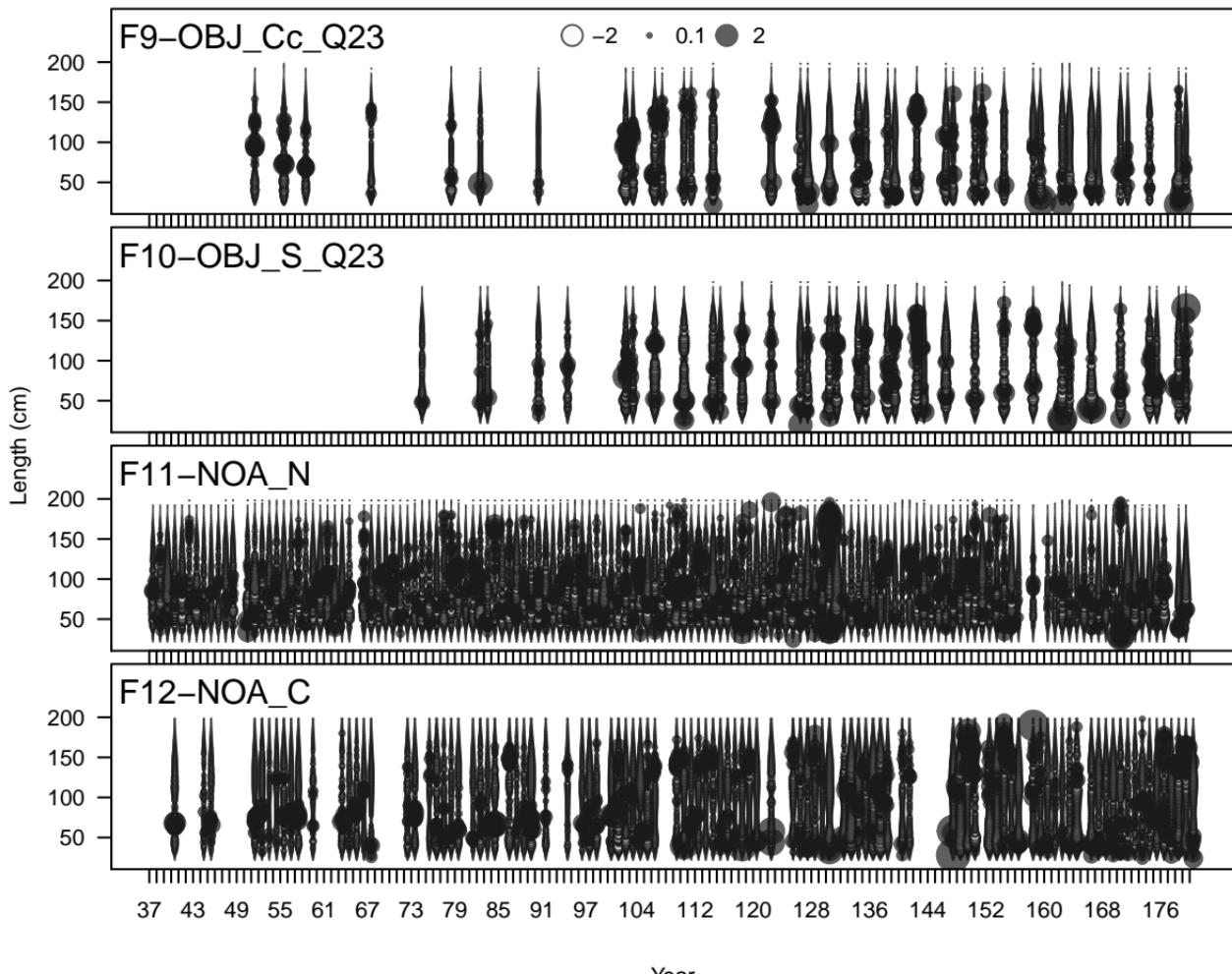


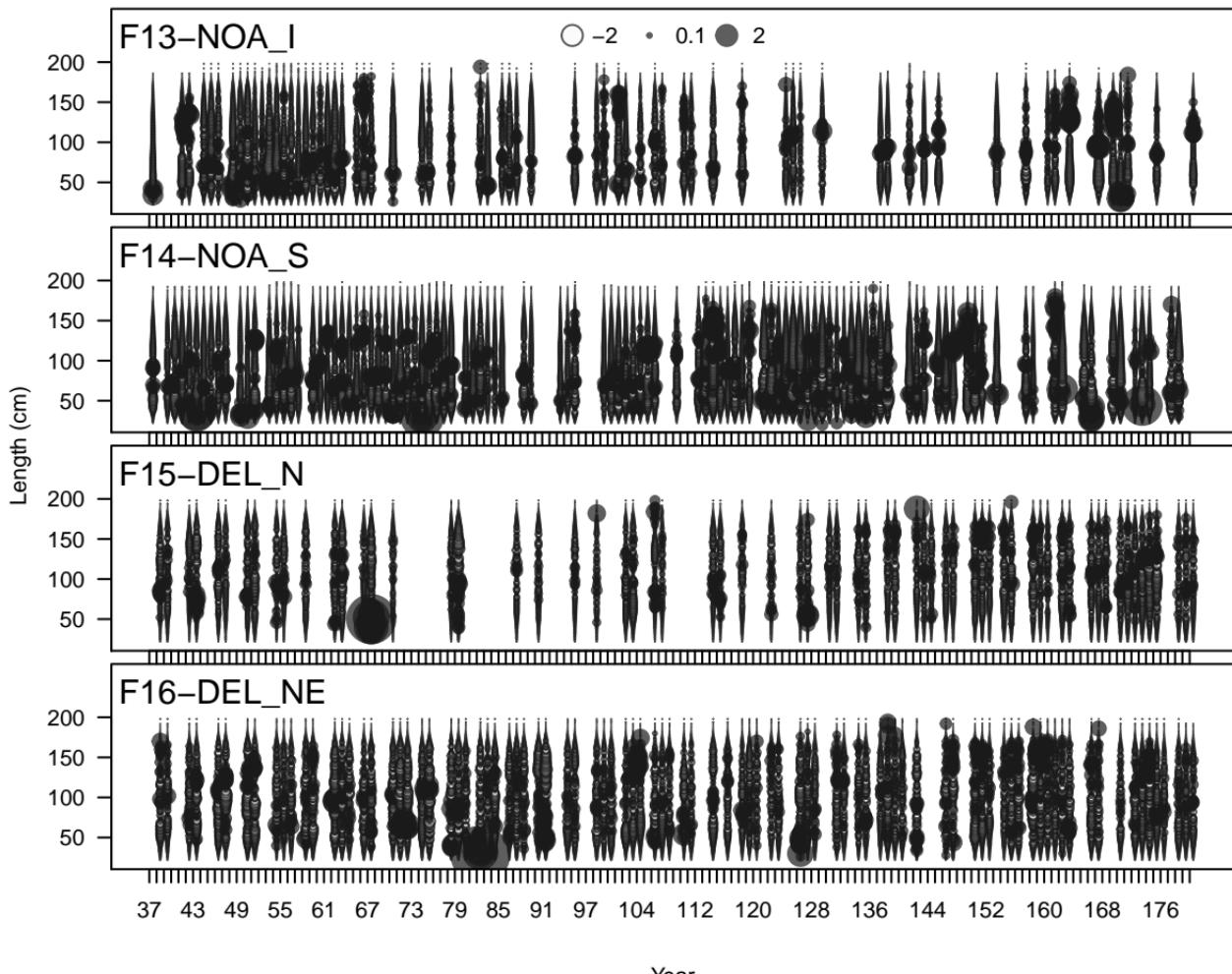
Proportion

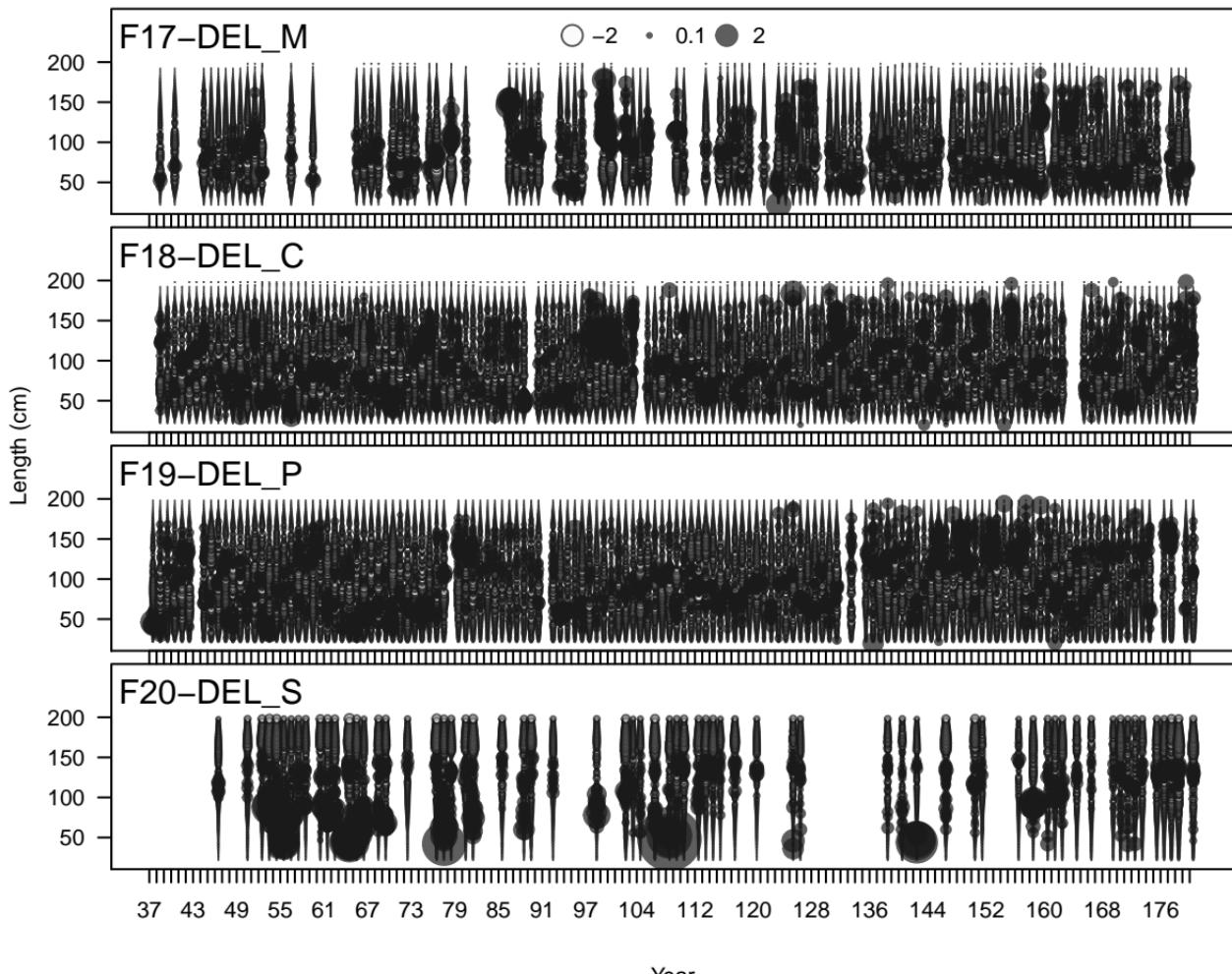


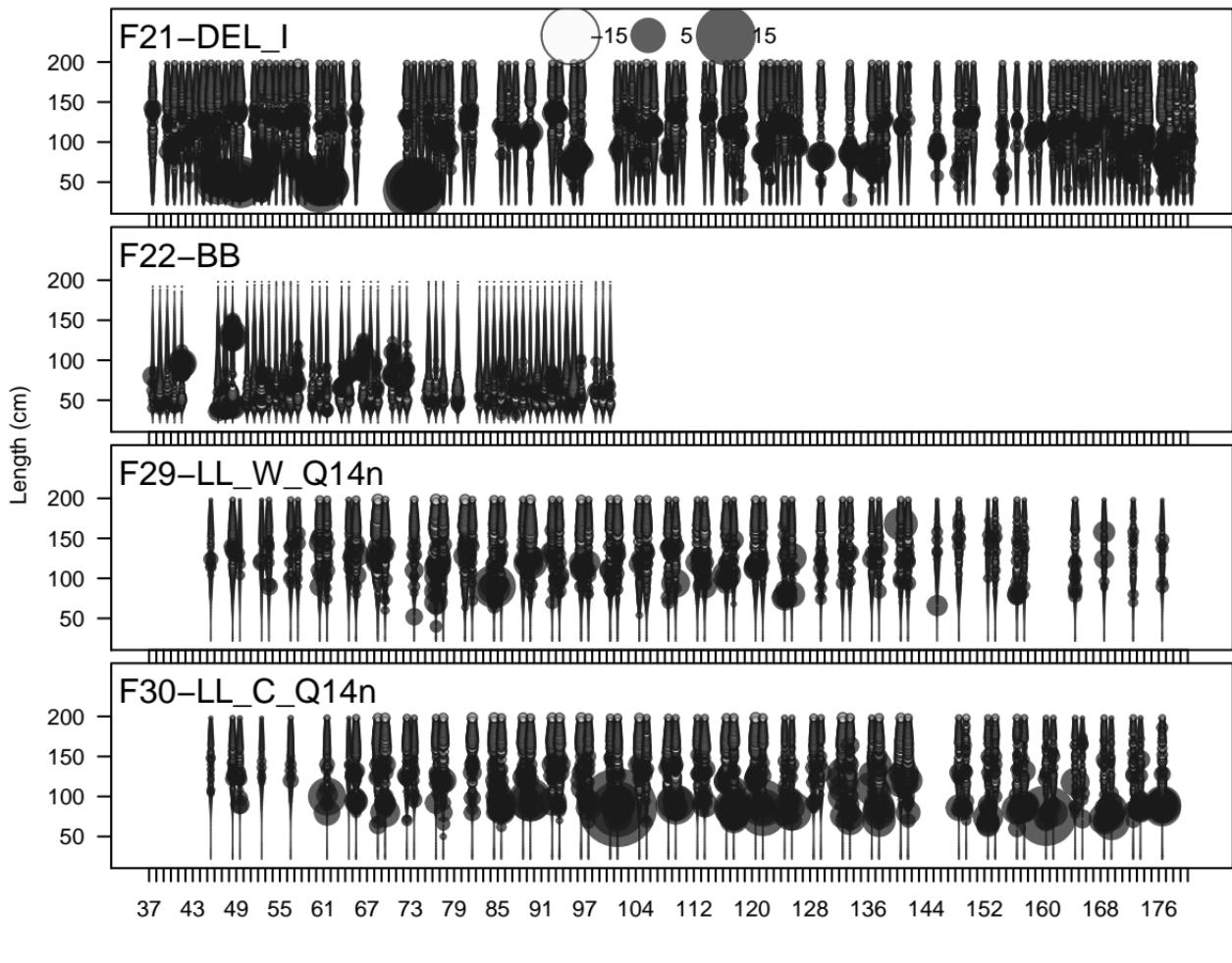


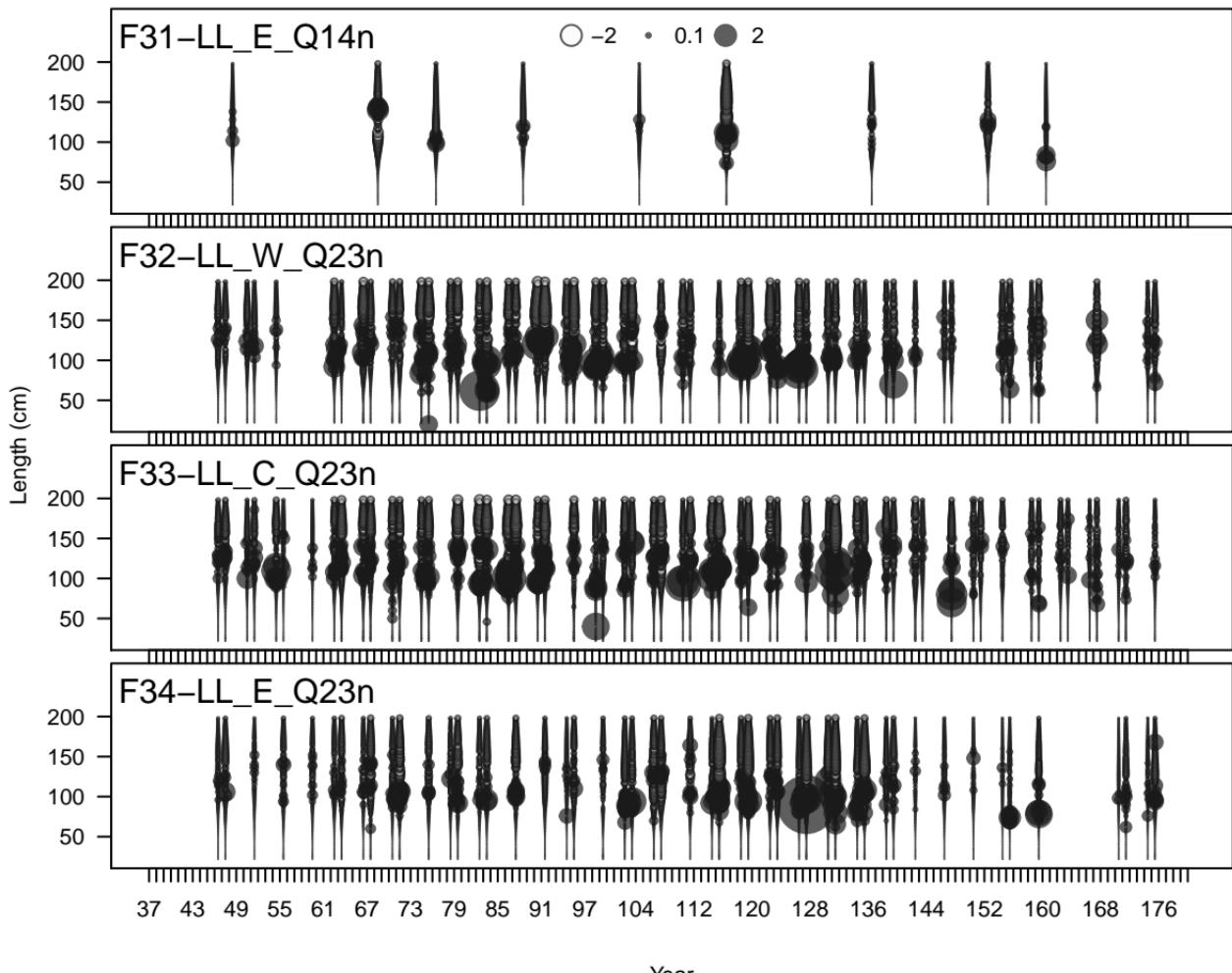




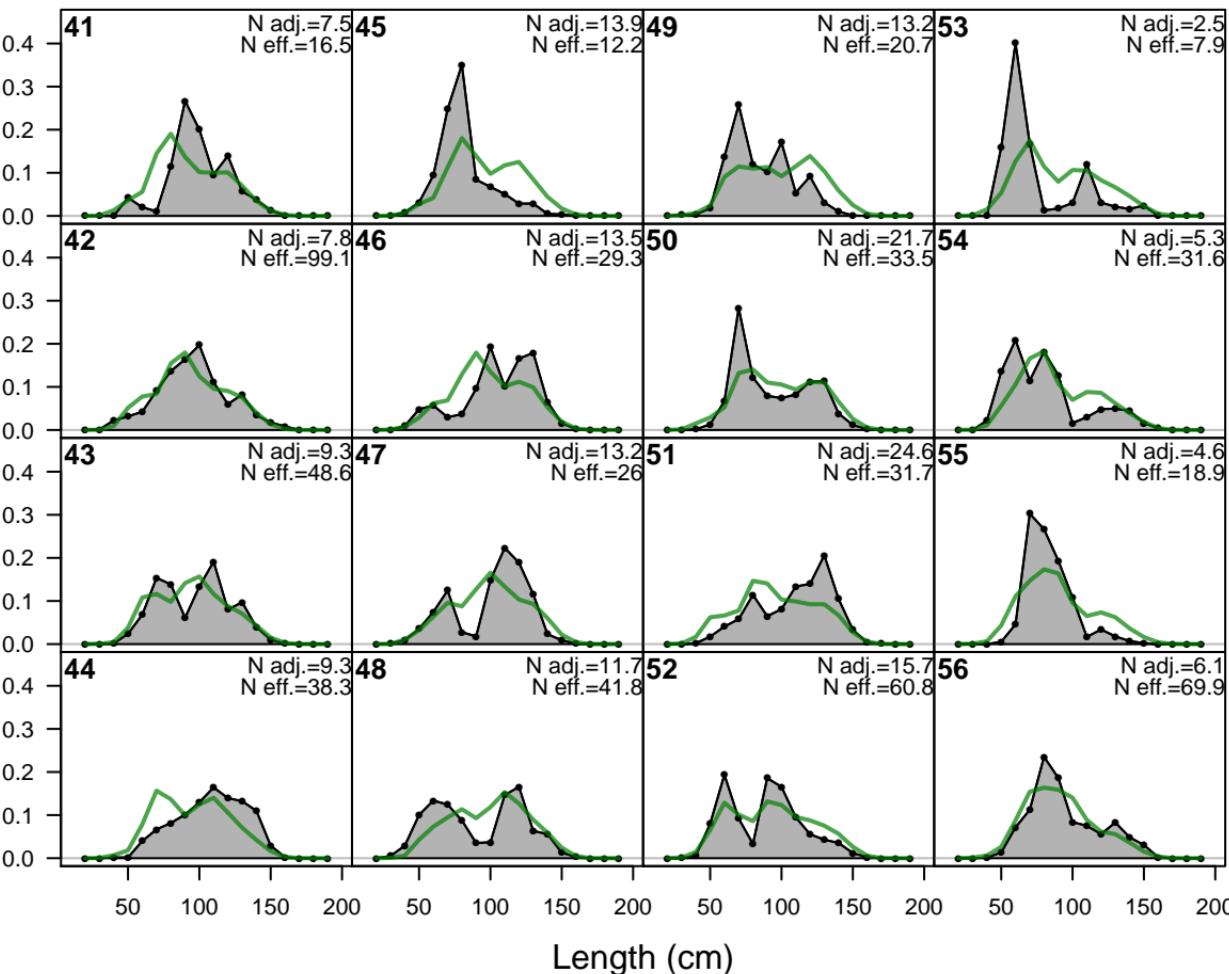




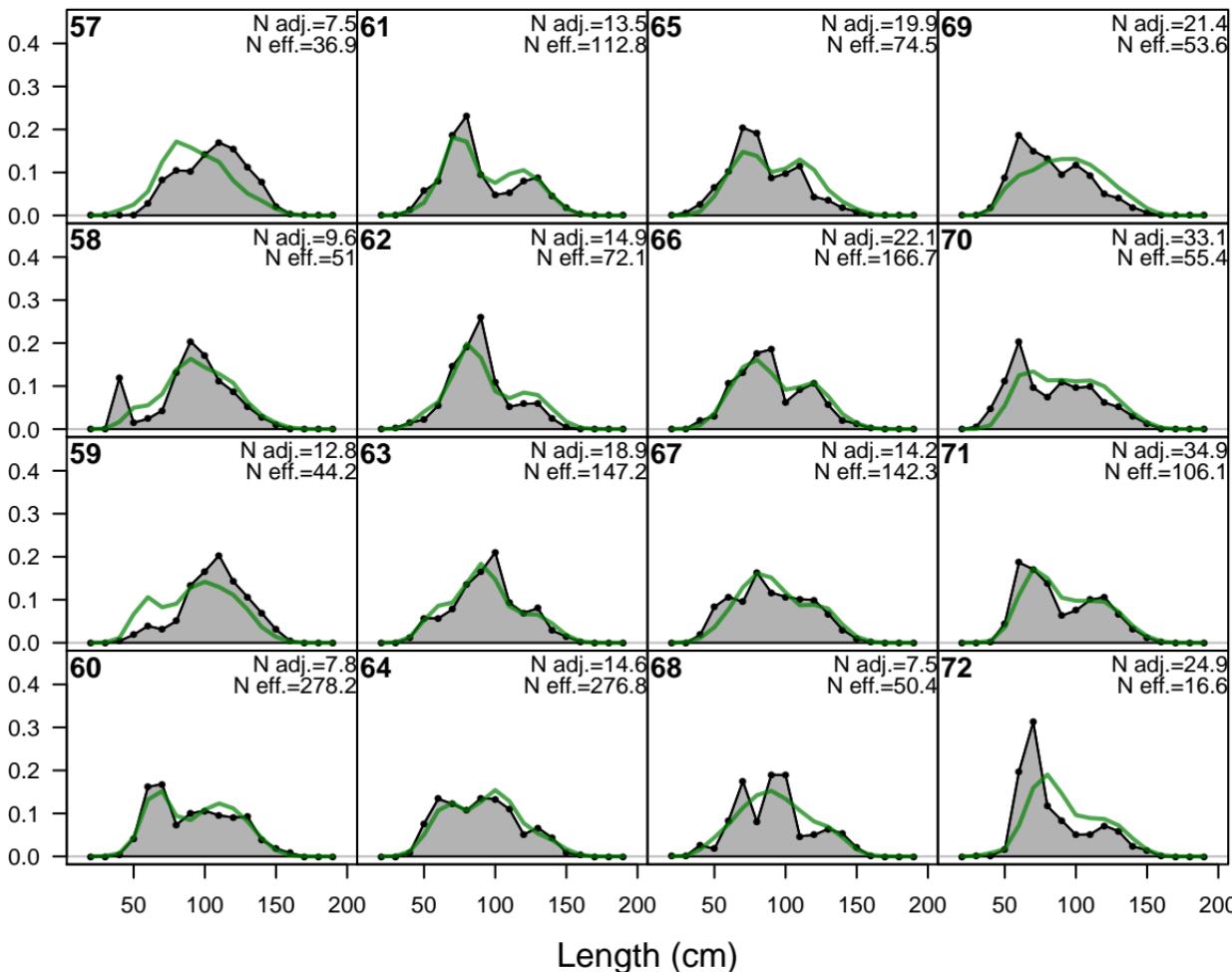




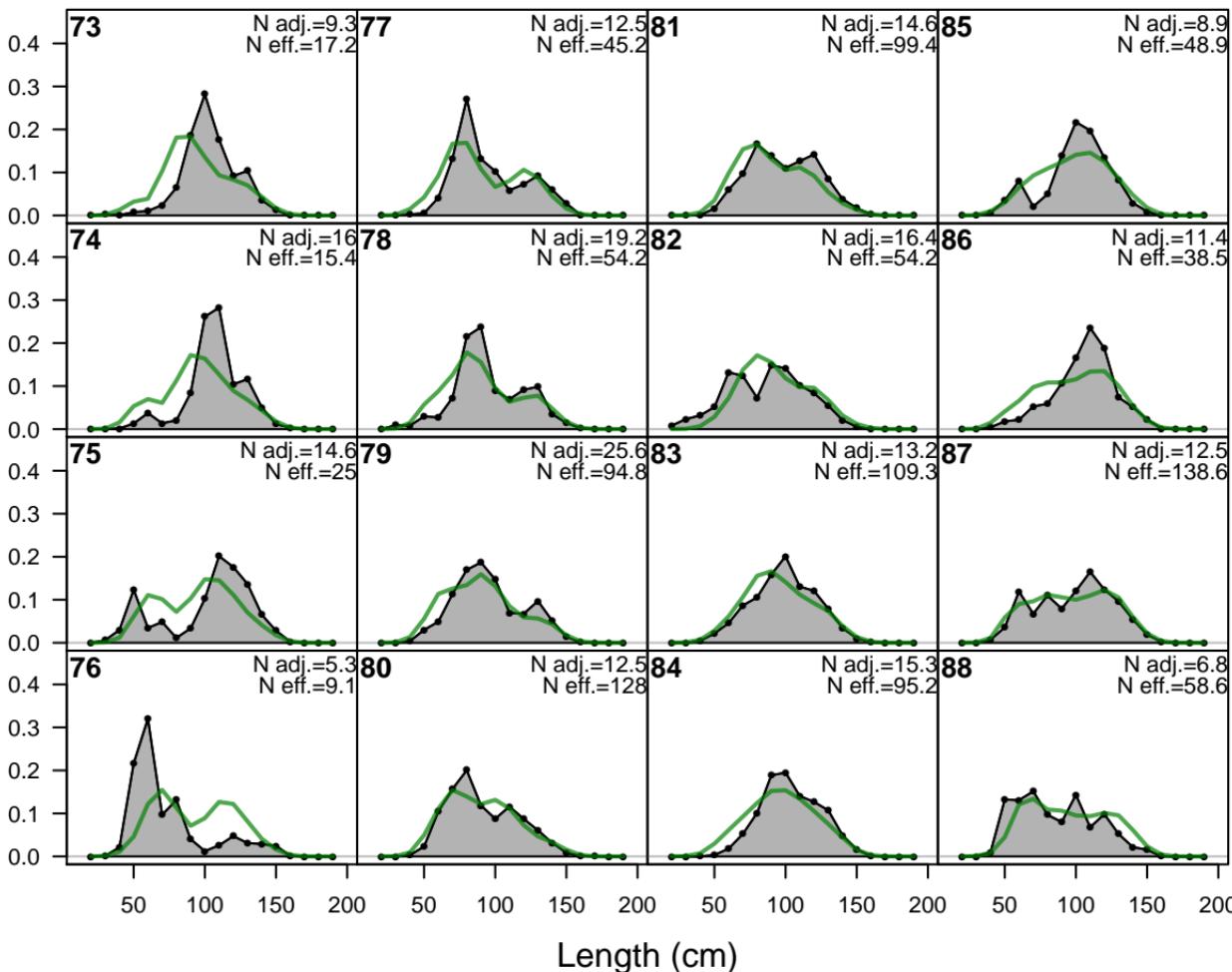
Proportion



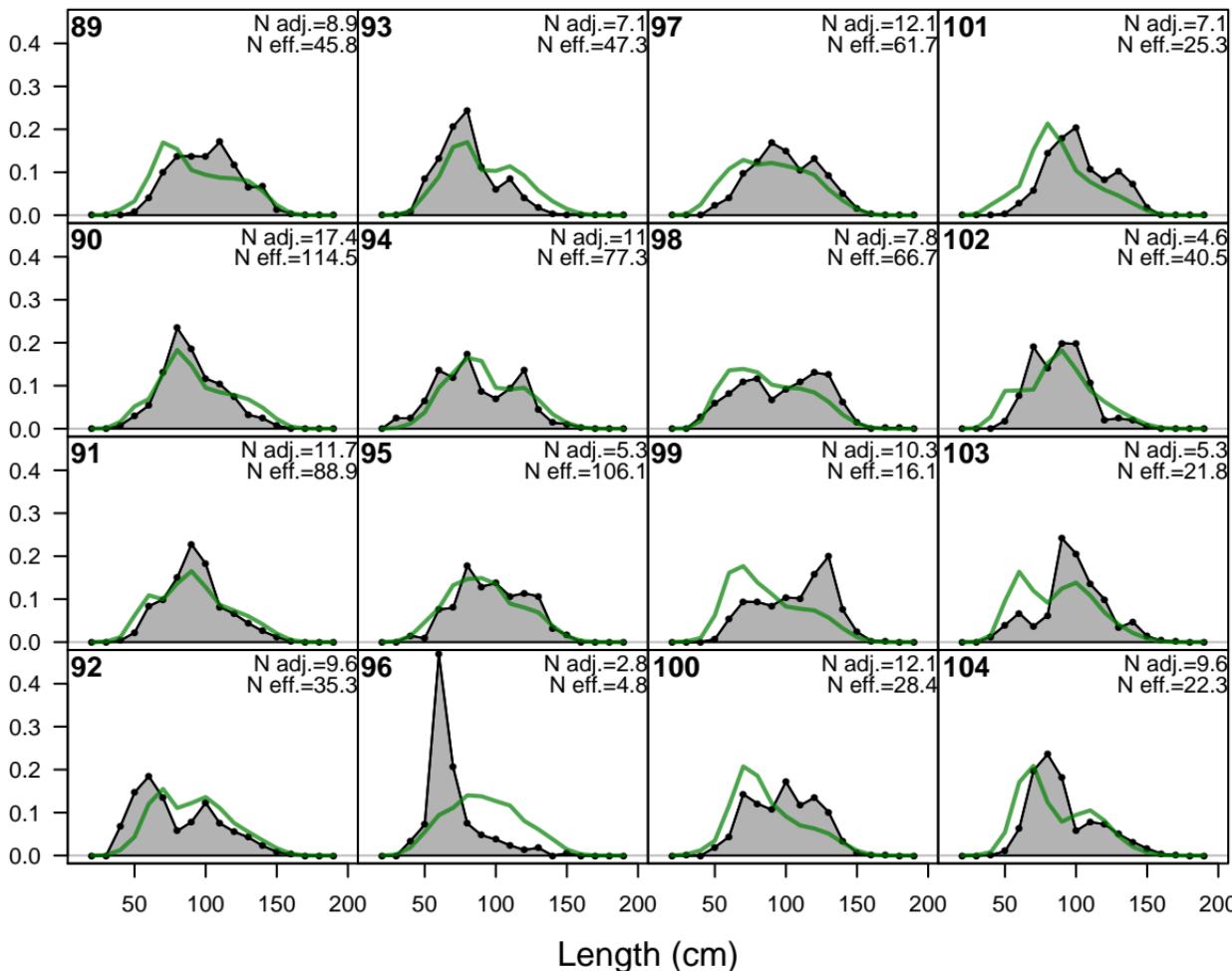
Proportion



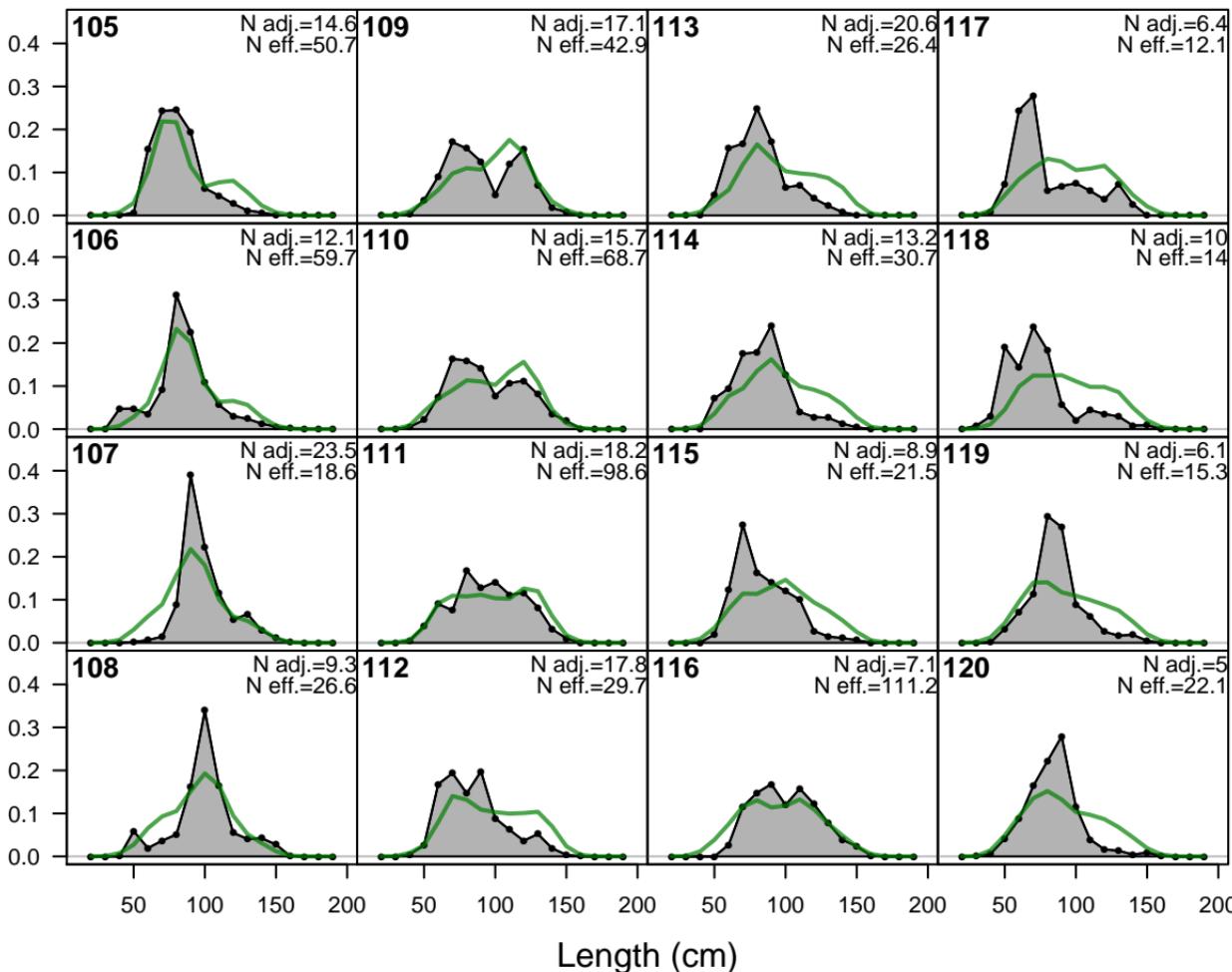
Proportion



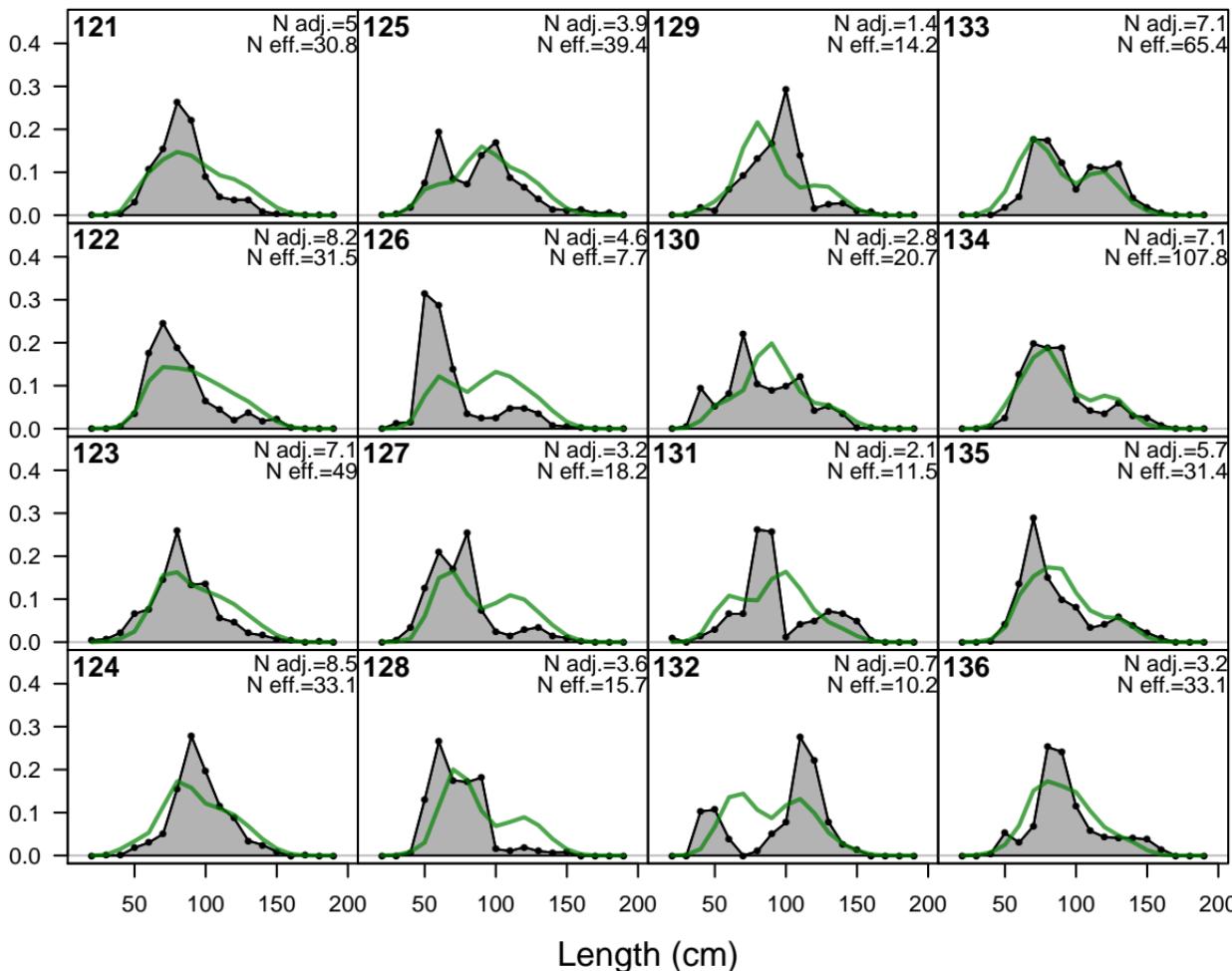
Proportion



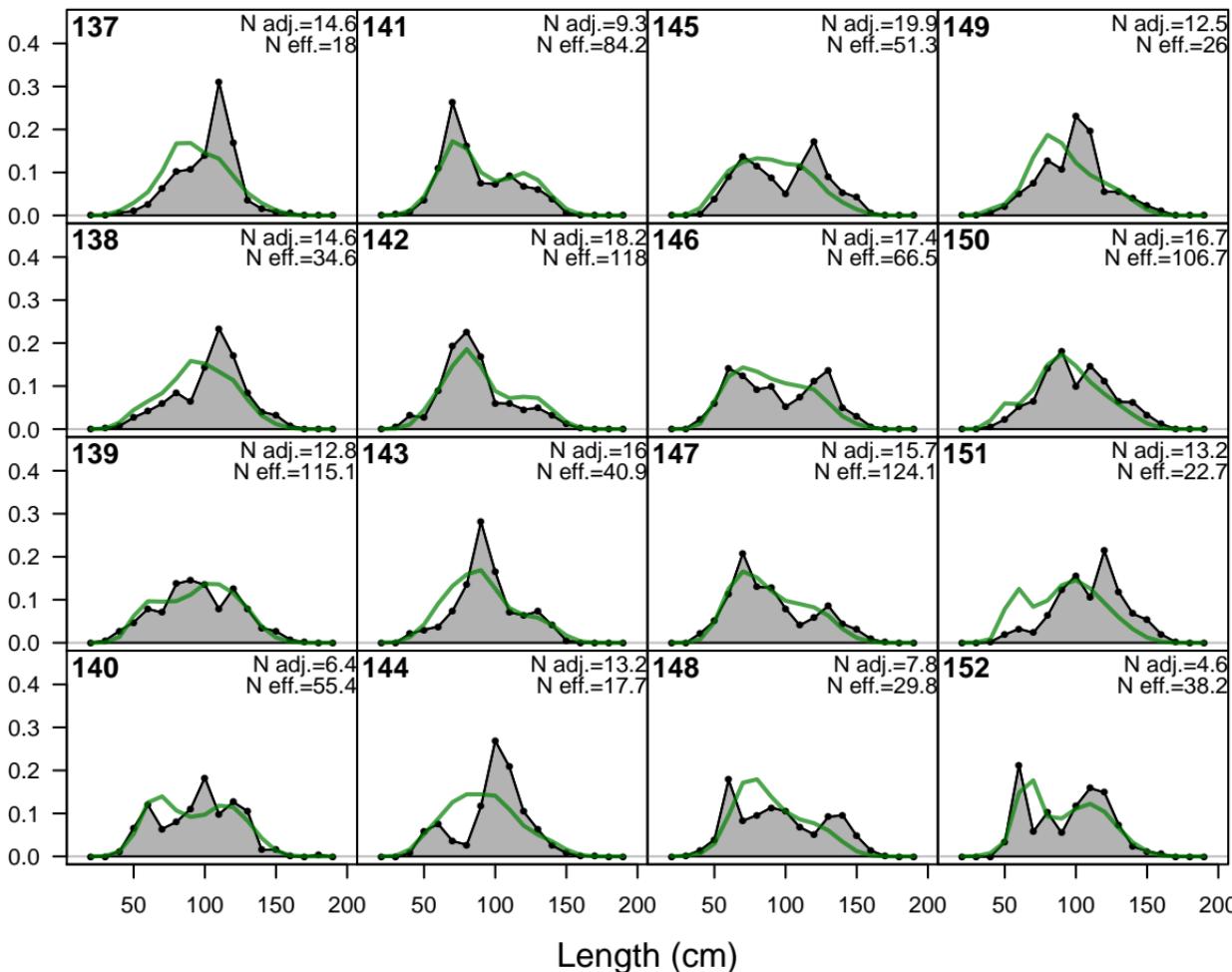
Proportion



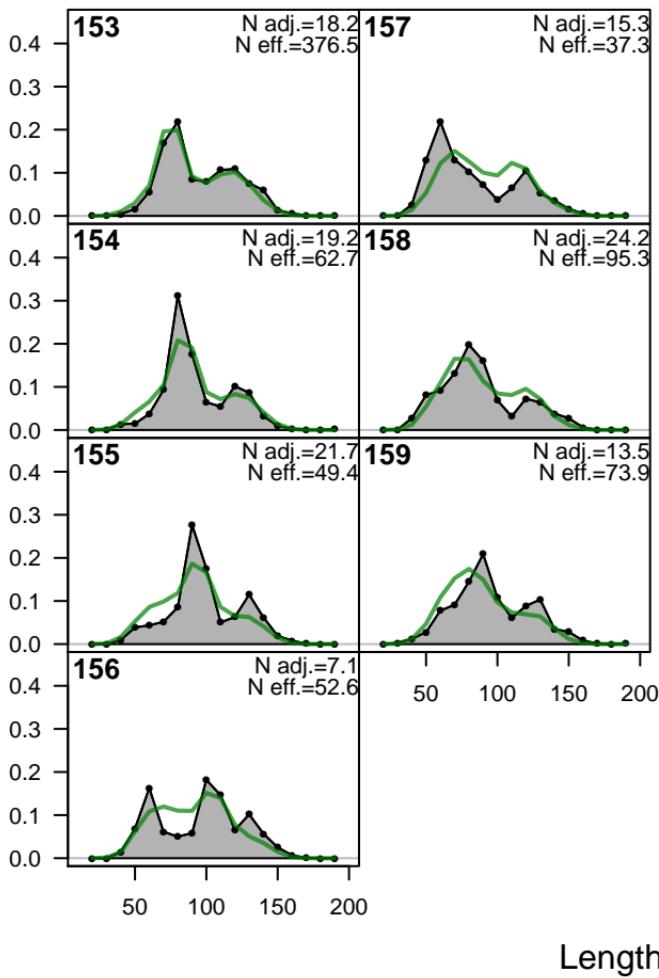
Proportion

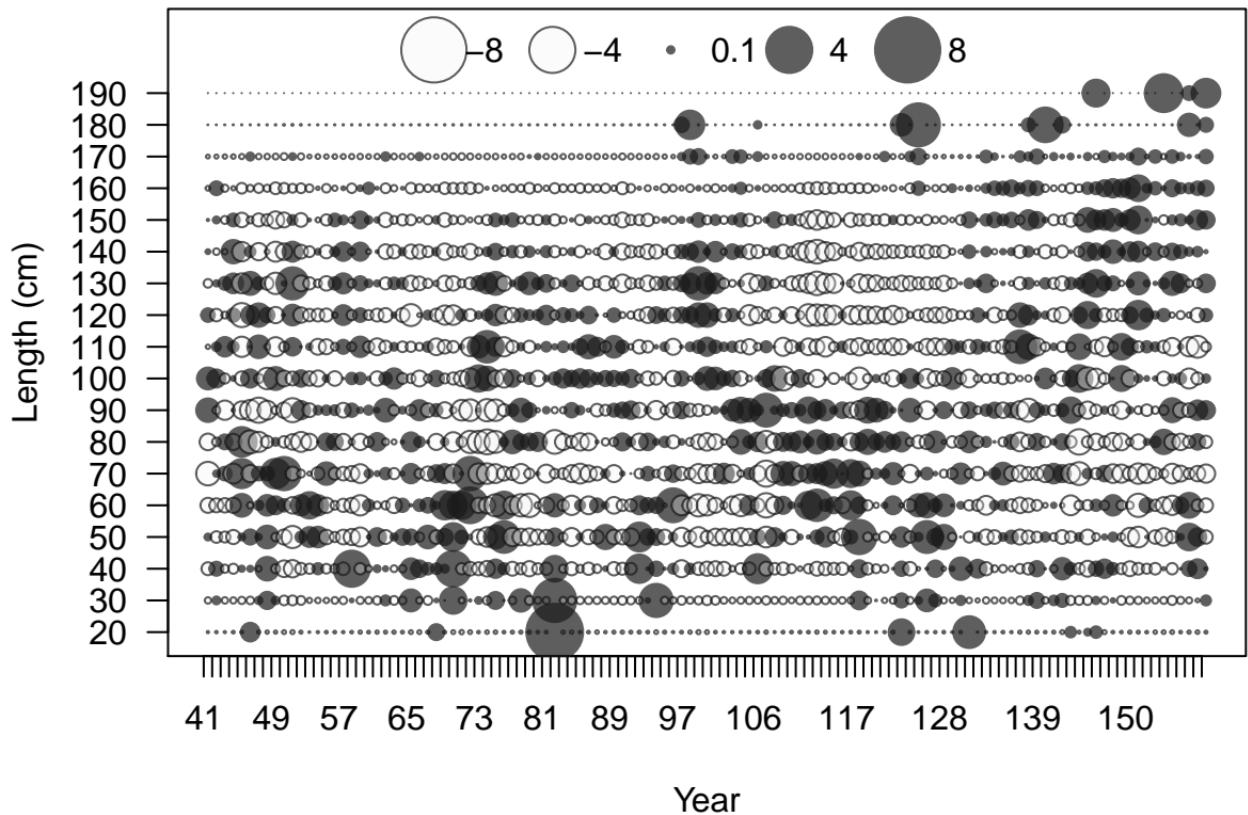


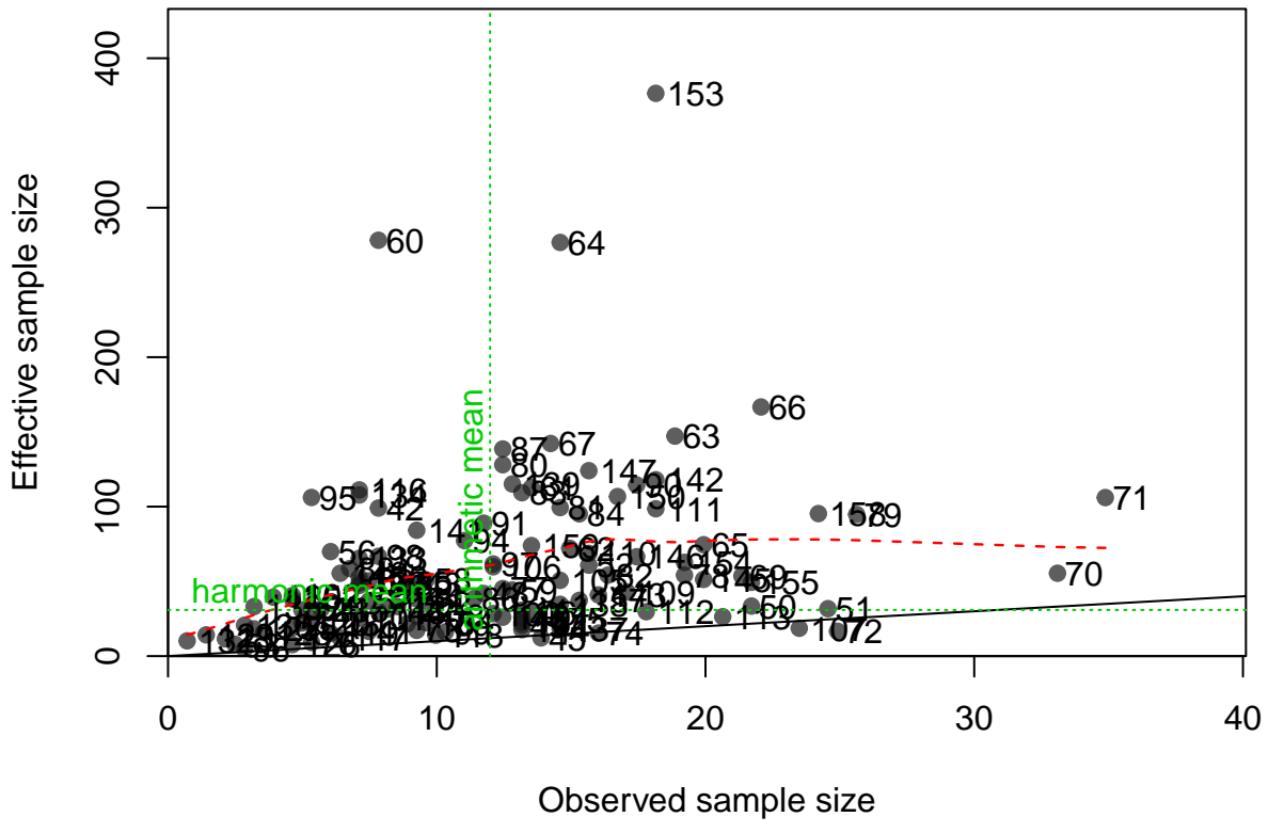
Proportion



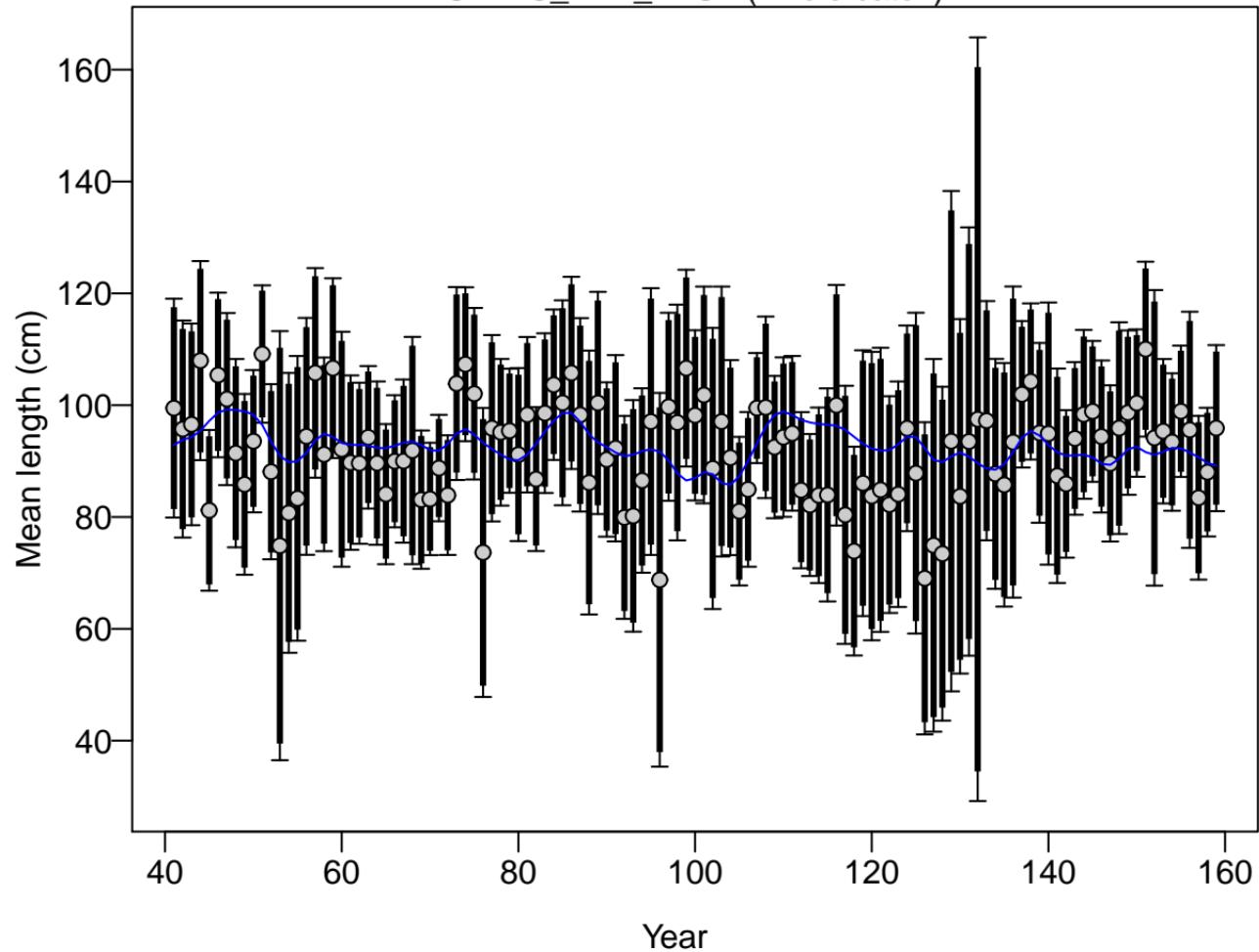
Proportion



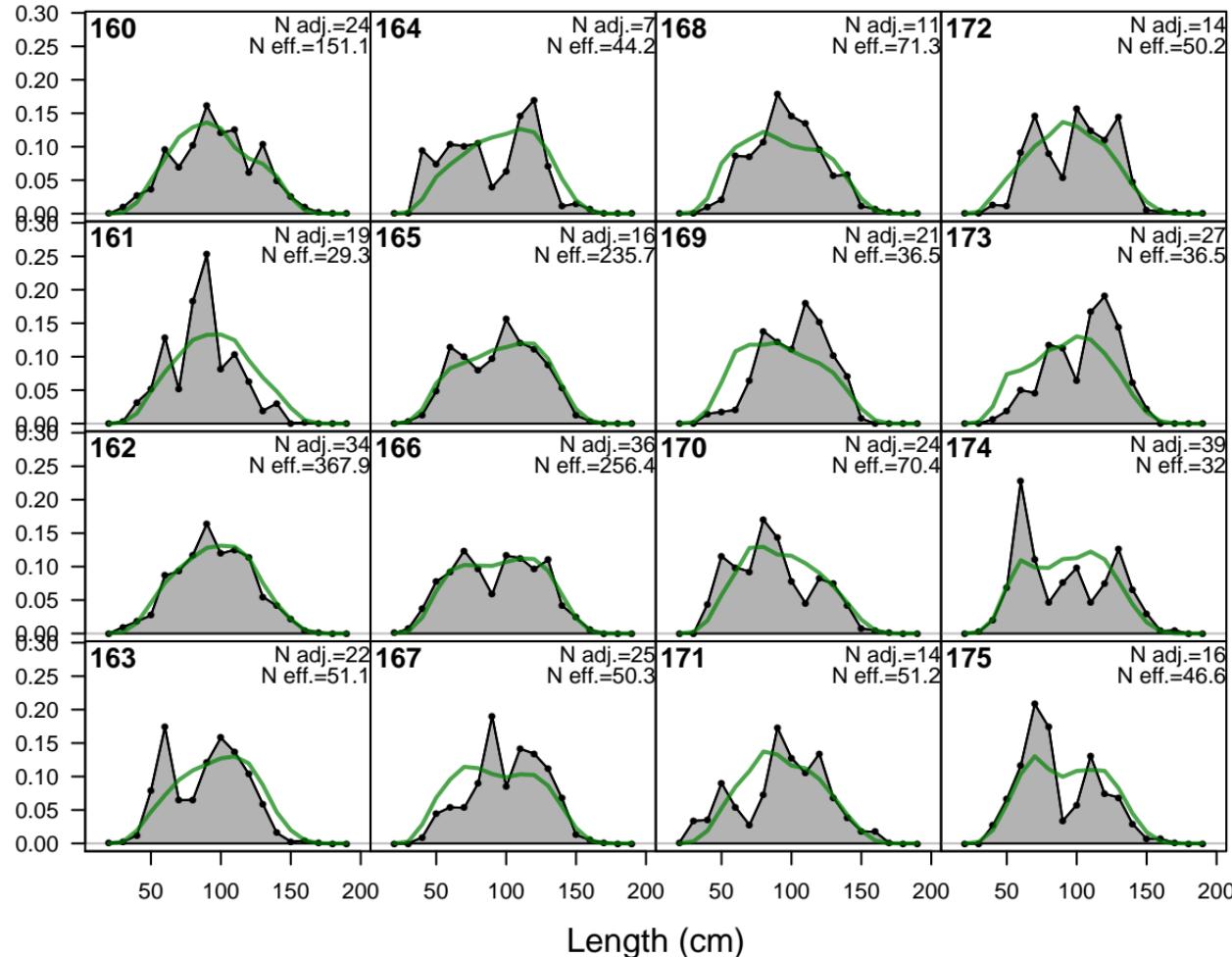




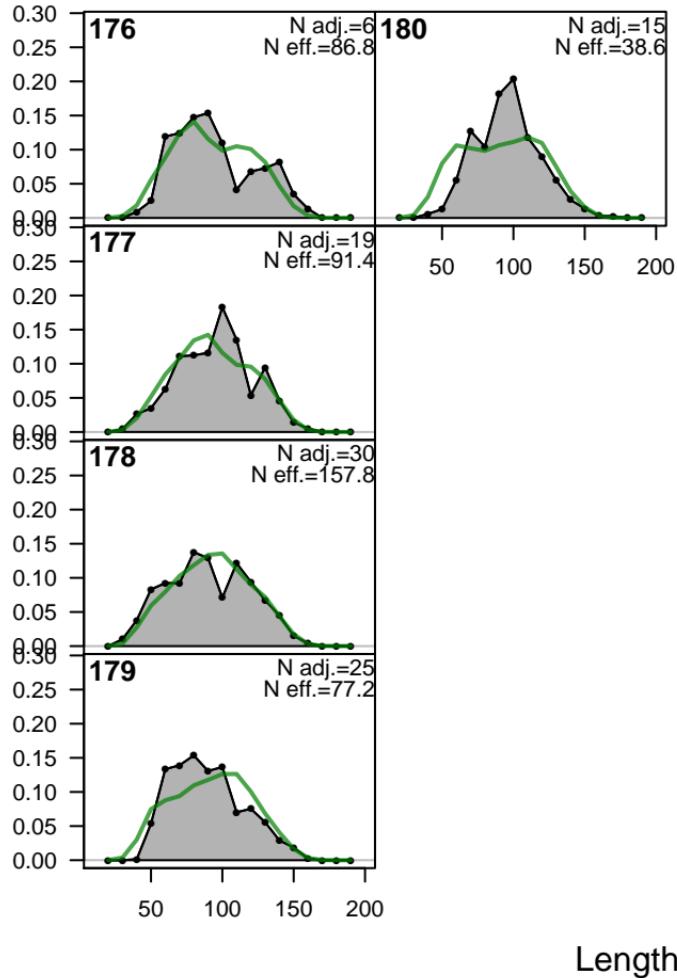
S1-PS_DEL_VAST (whole catch)

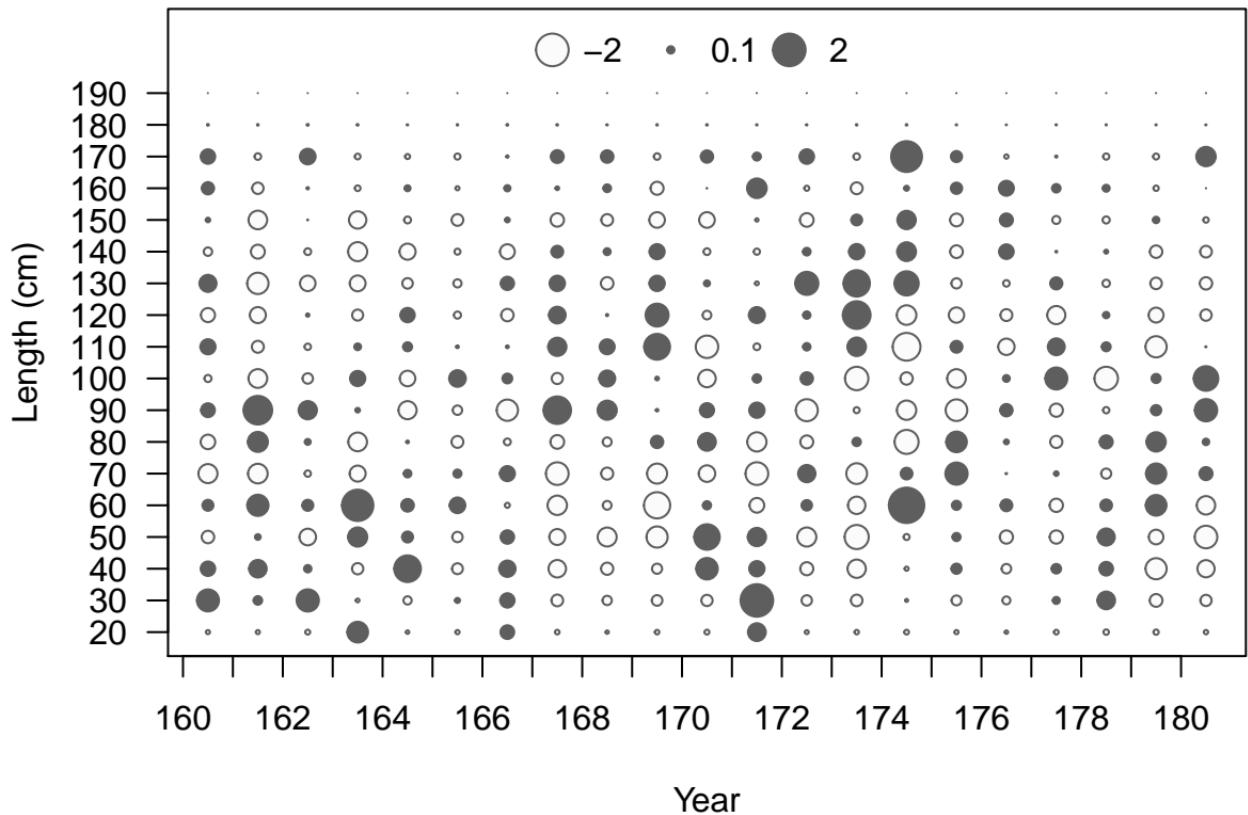


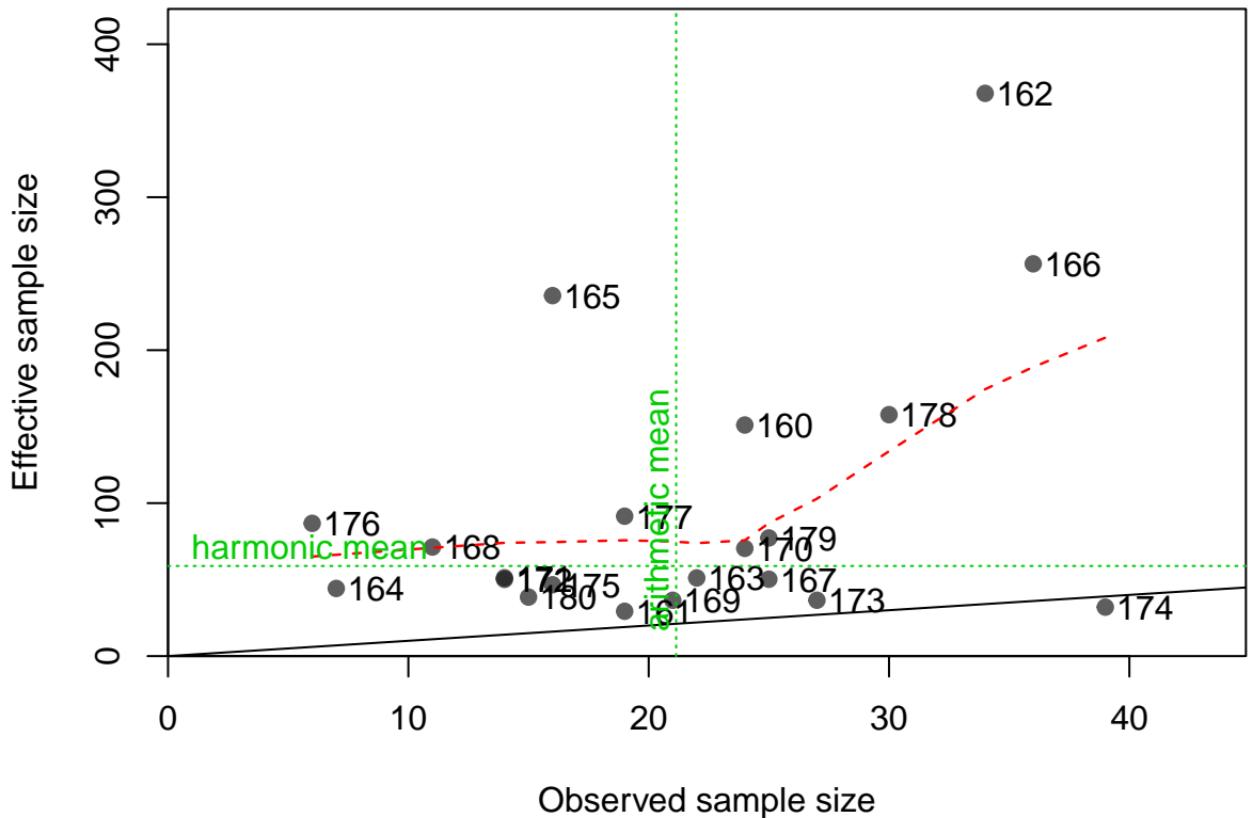
Proportion



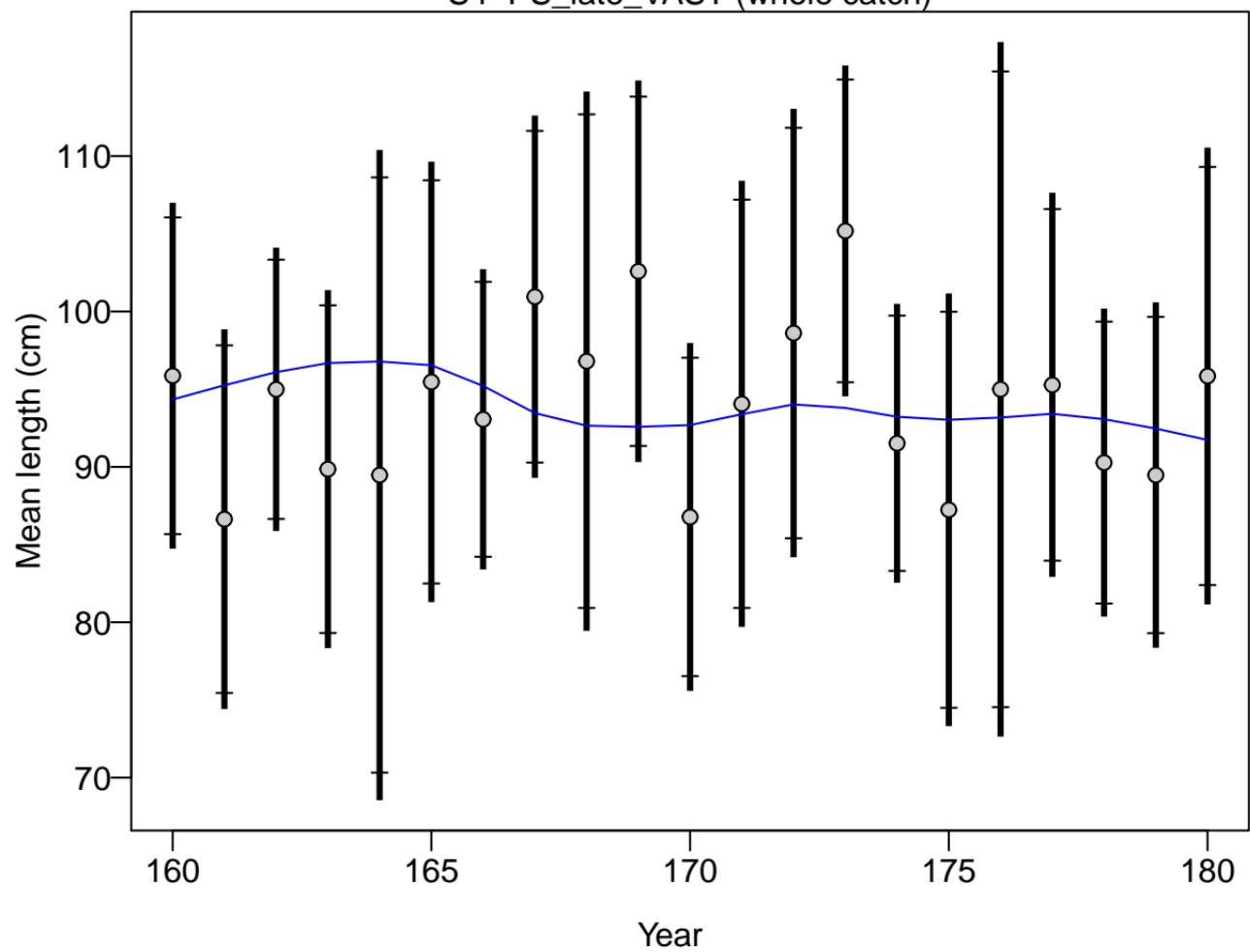
Proportion







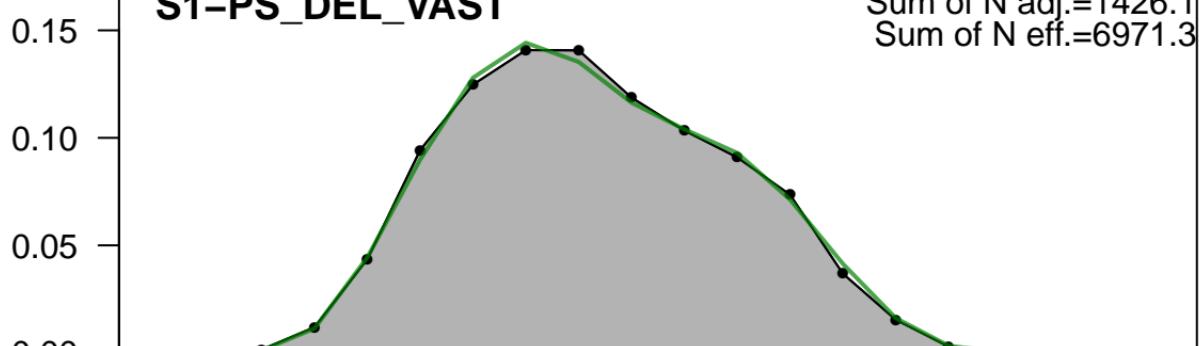
S4-PS_late_VAST (whole catch)



S1-PS_DEL_VAST

Sum of N adj.=1426.1
Sum of N eff.=6971.3

Proportion



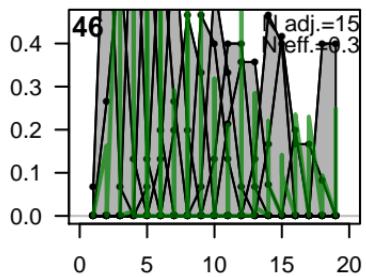
S4-PS_late_VAST

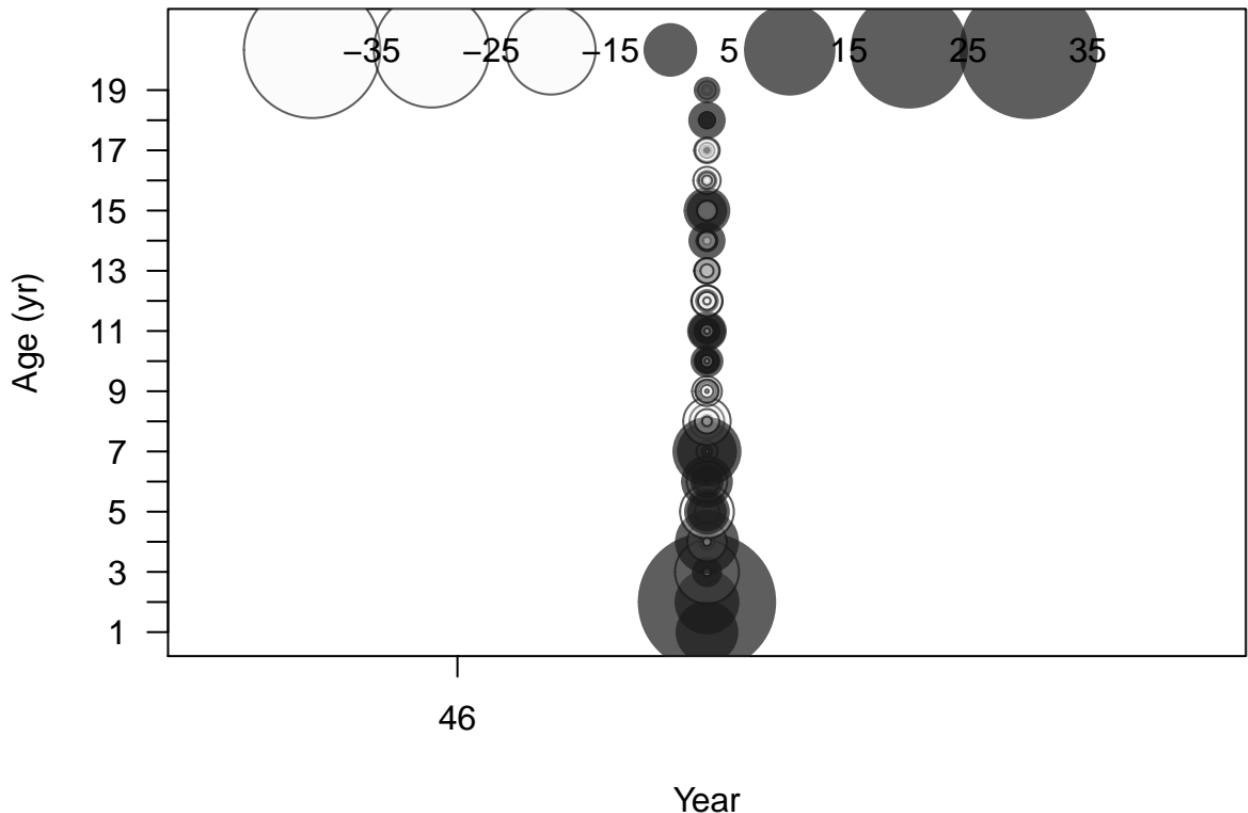
Sum of N adj.=444
Sum of N eff.=2032.6

50 100 150 200

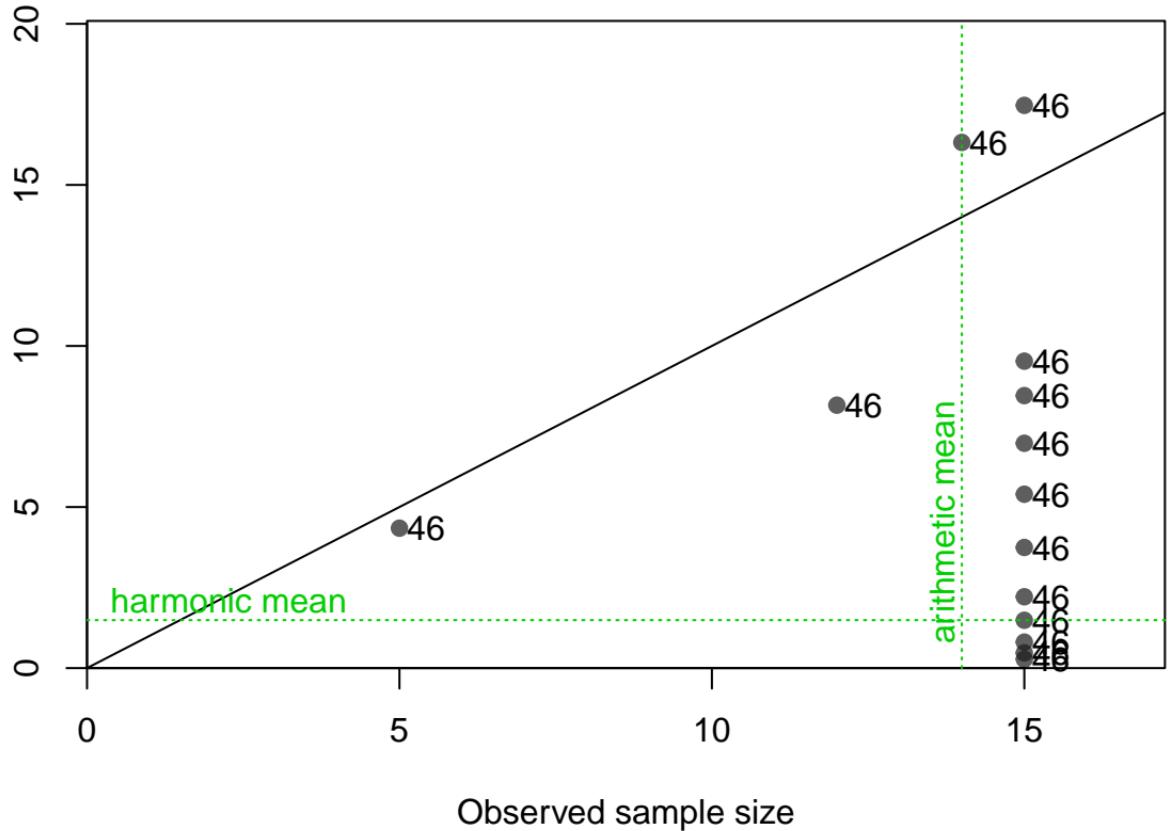
Length (cm)

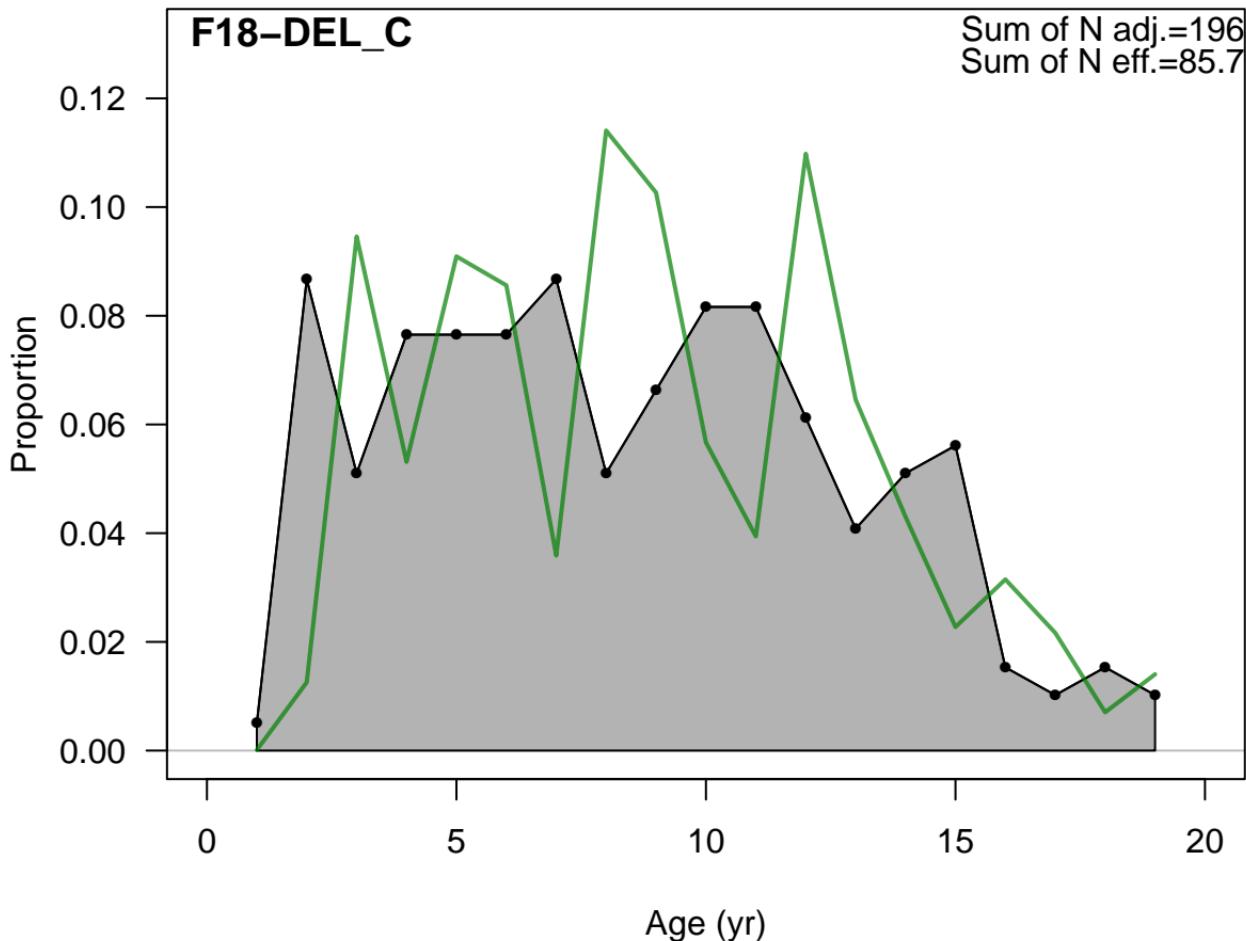
Proportion

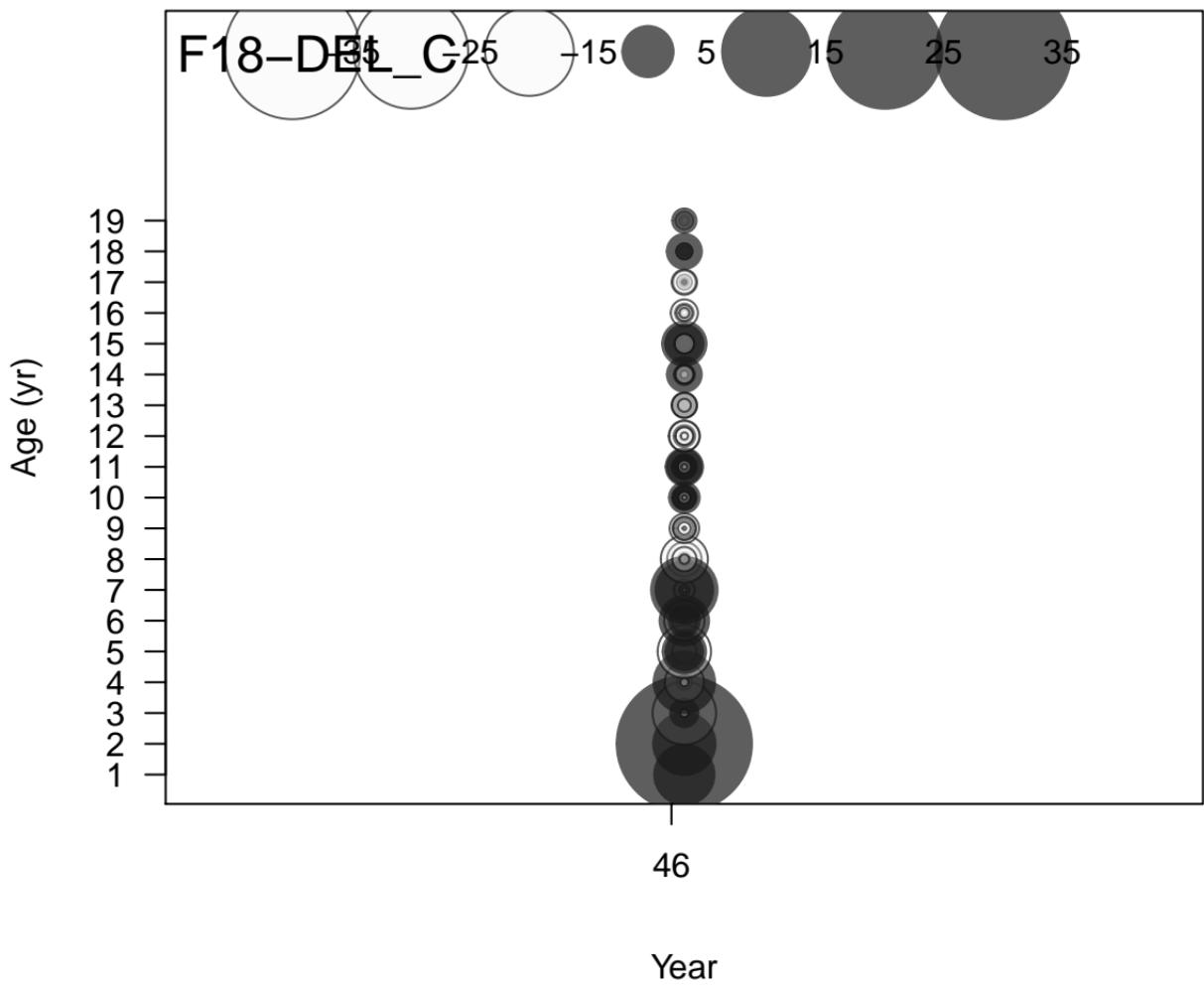


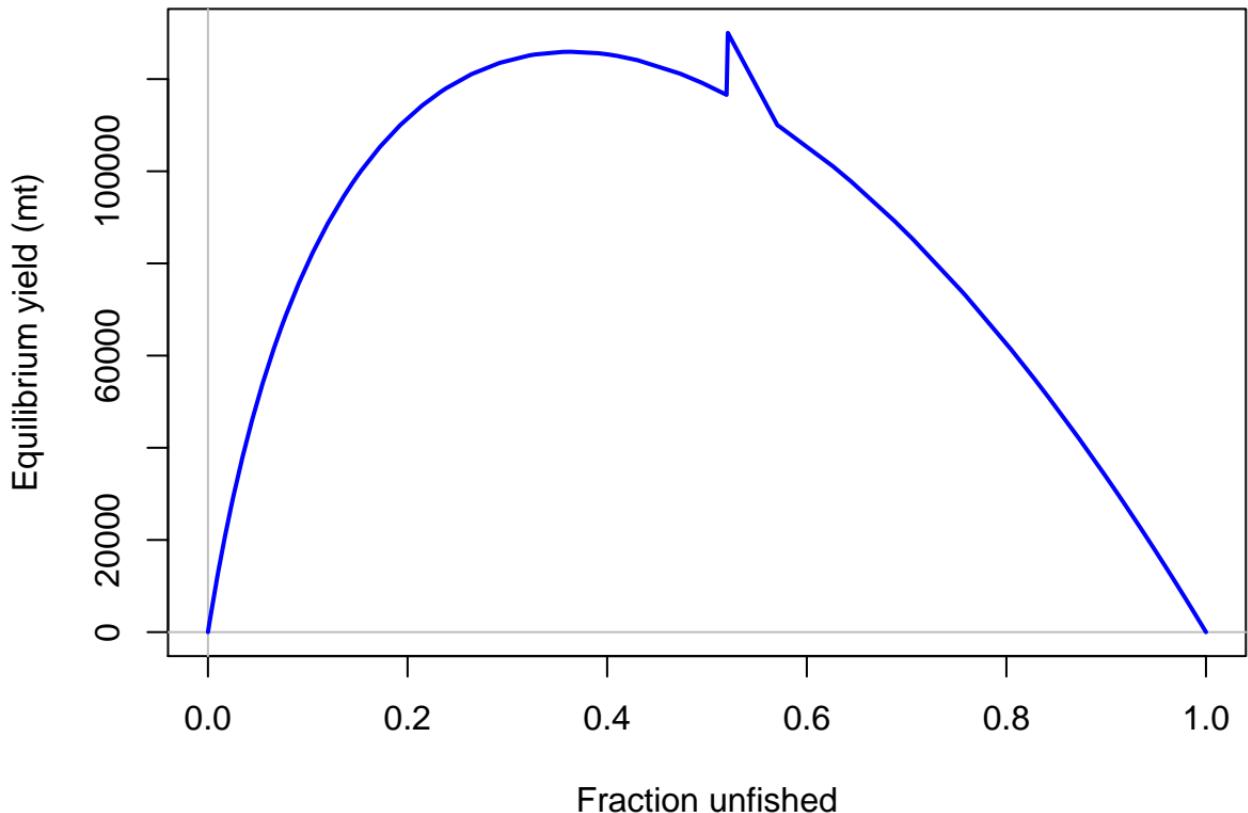


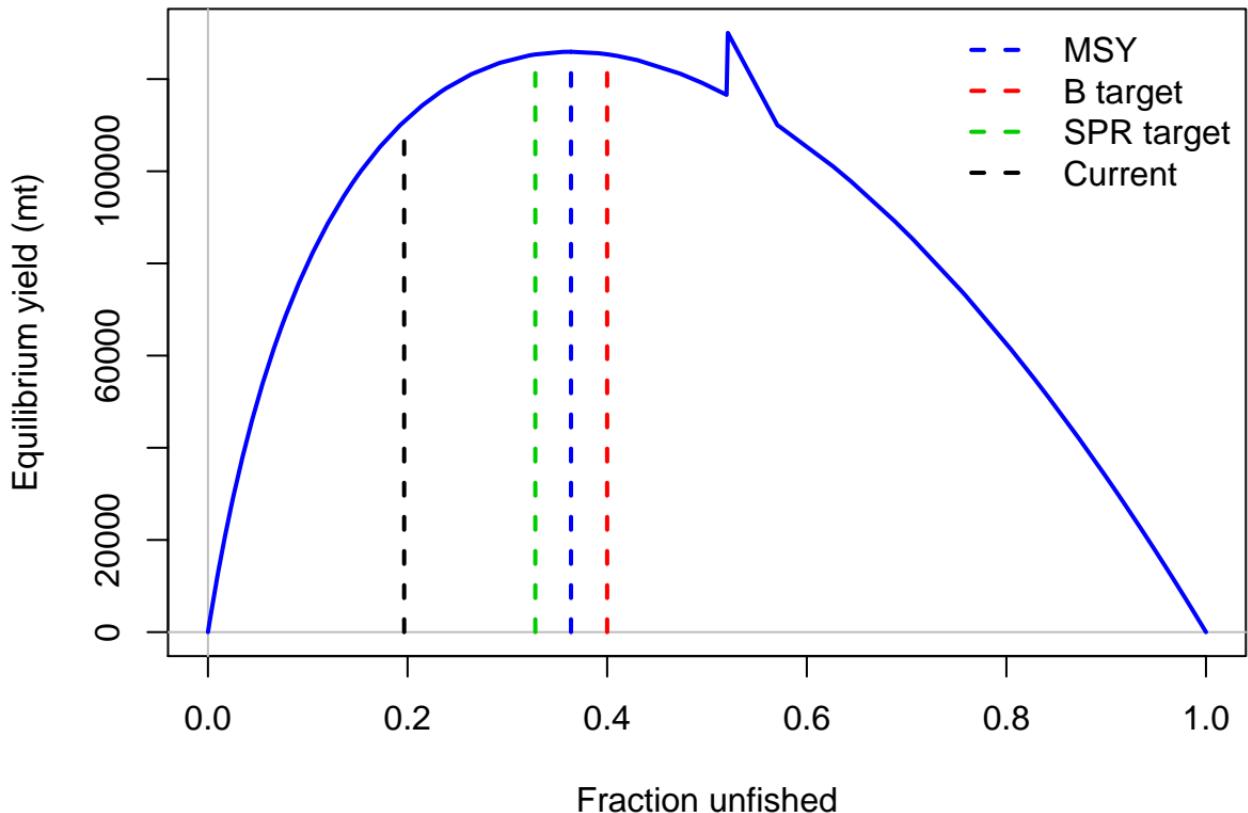
Effective sample size

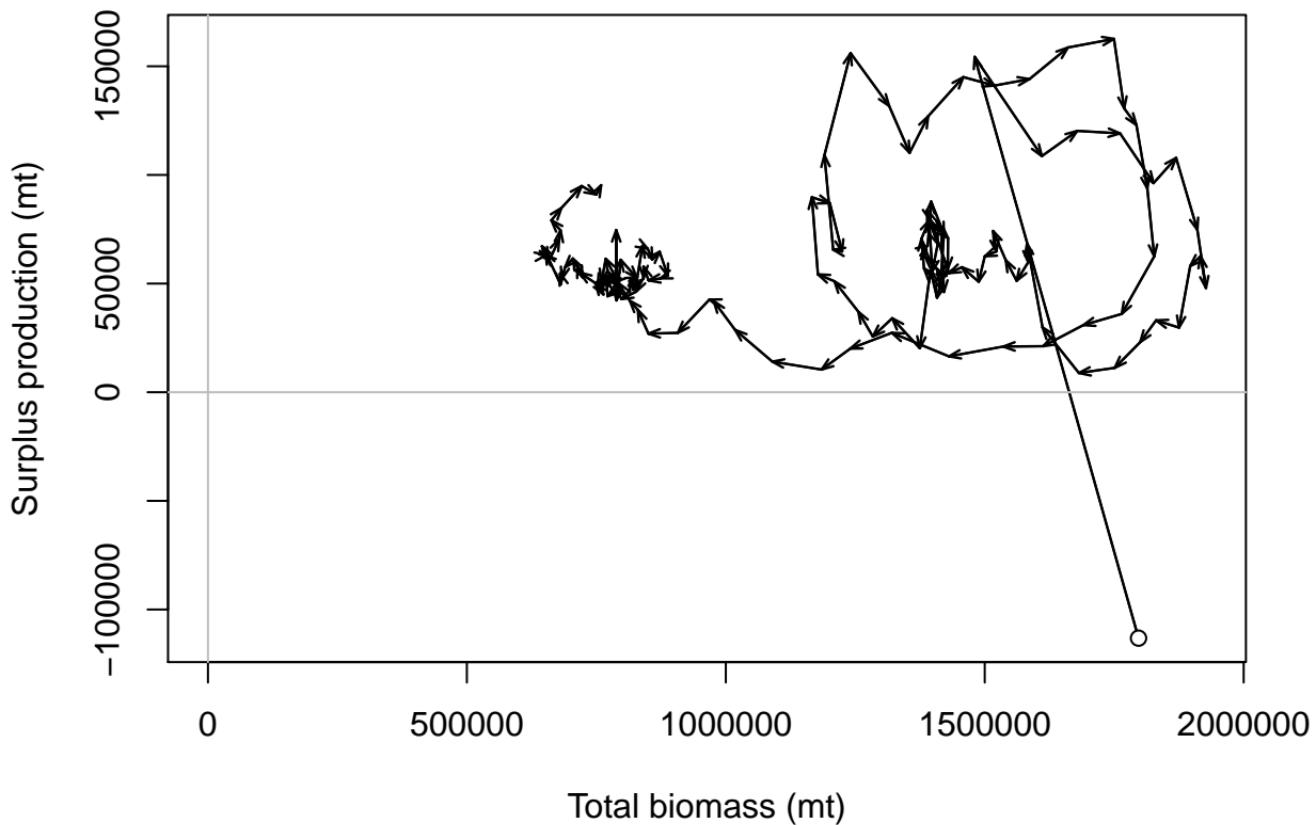


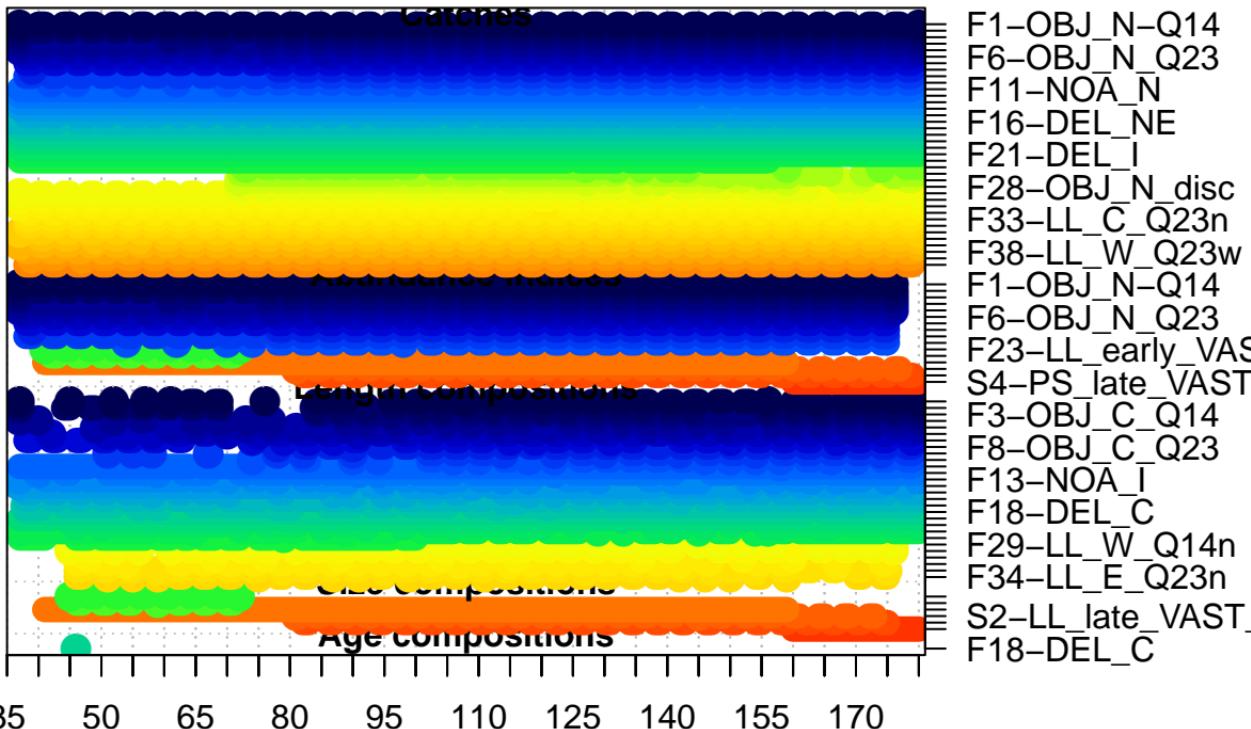




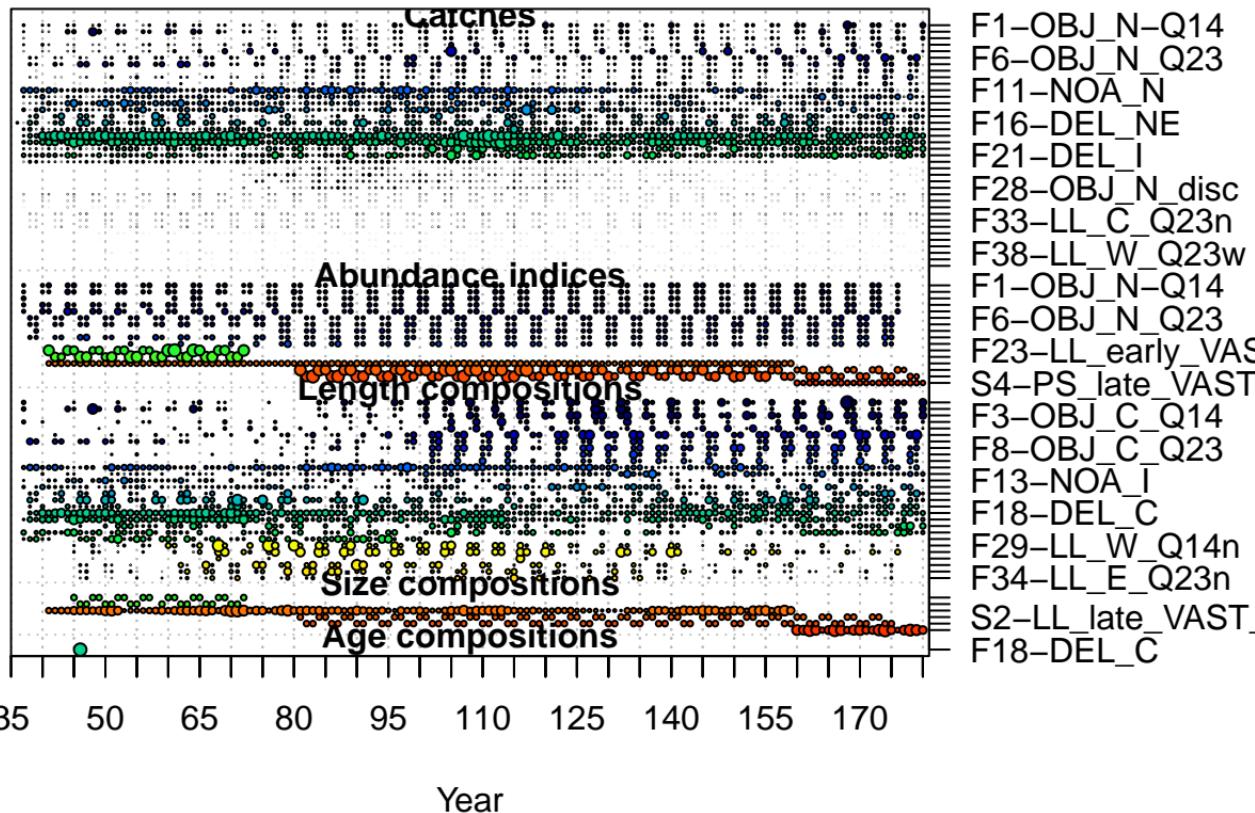






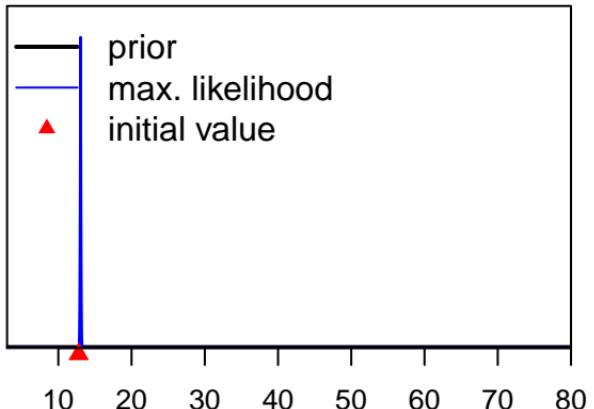


Year

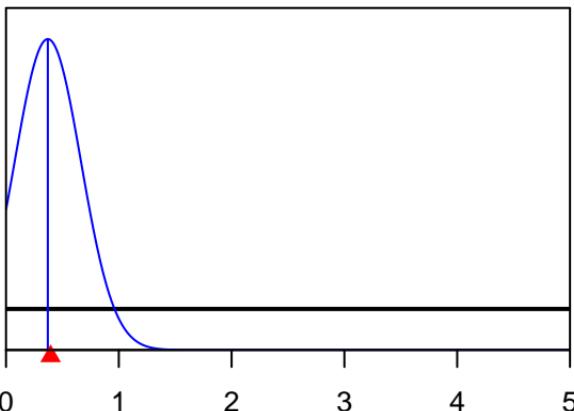


SR_LN(R0)

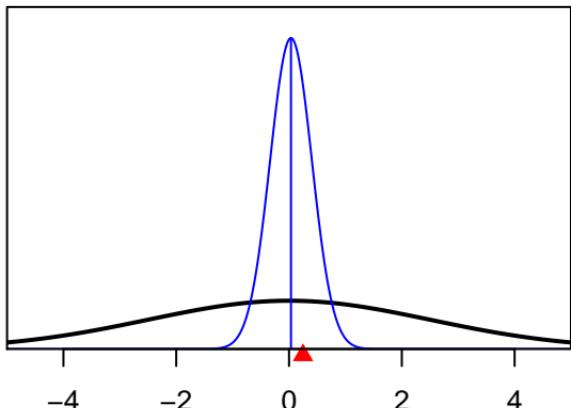
Density



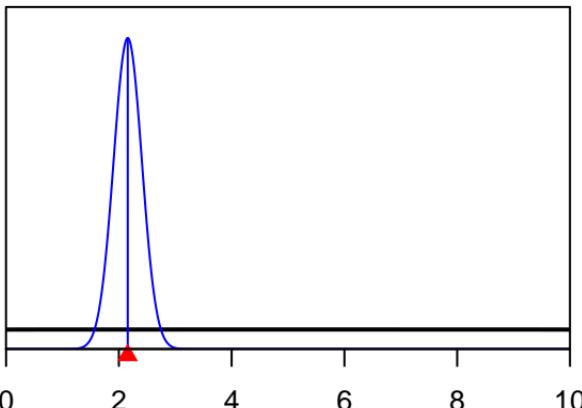
InitF_seas_1_flt_16F16-DEL_NE



SR_regime_BLK1add_36

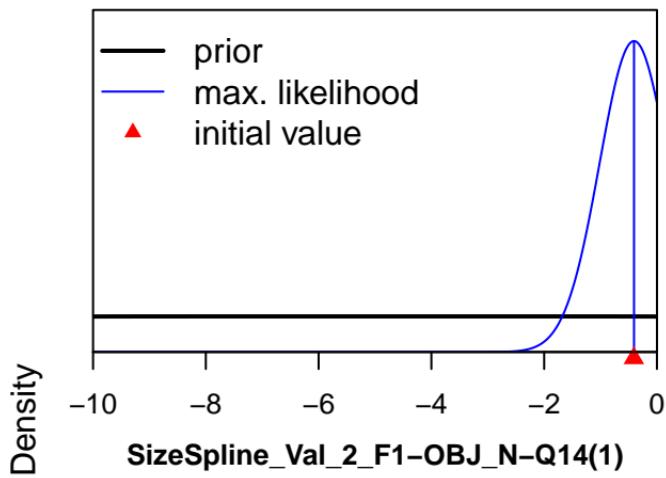


SizeSpline_GradLo_F1-OBJ_N-Q14(1)

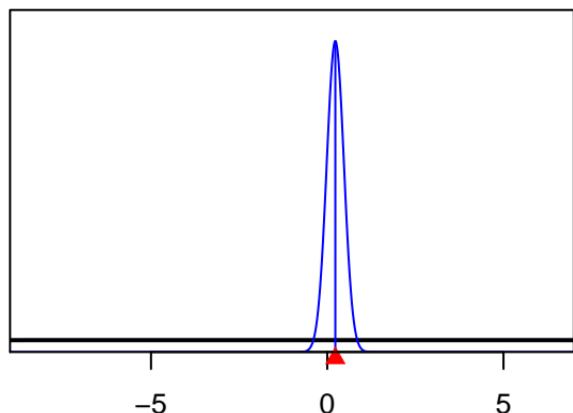


Parameter value

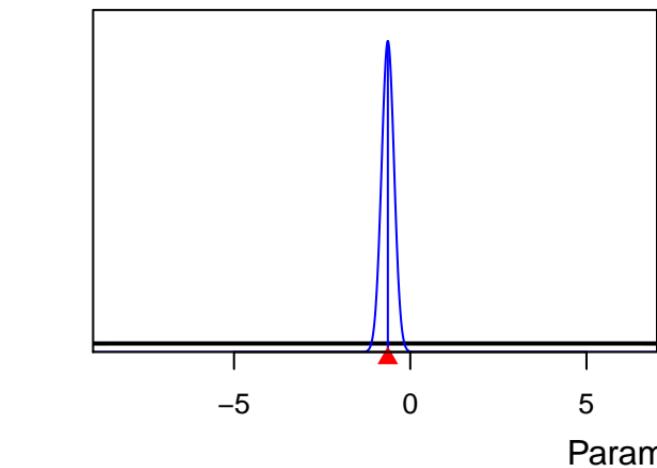
SizeSpline_GradHi_F1-OBJ_N-Q14(1)



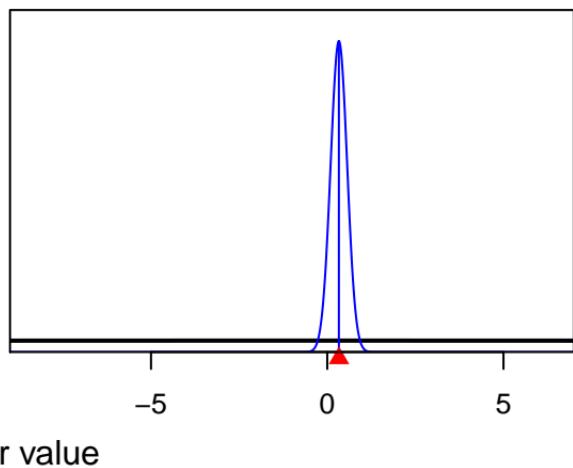
SizeSpline_Val_4_F1-OBJ_N-Q14(1)



SizeSpline_Val_2_F1-OBJ_N-Q14(1)



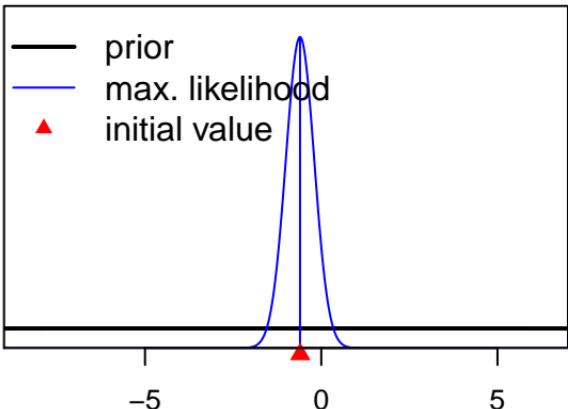
SizeSpline_Val_5_F1-OBJ_N-Q14(1)



Parameter value

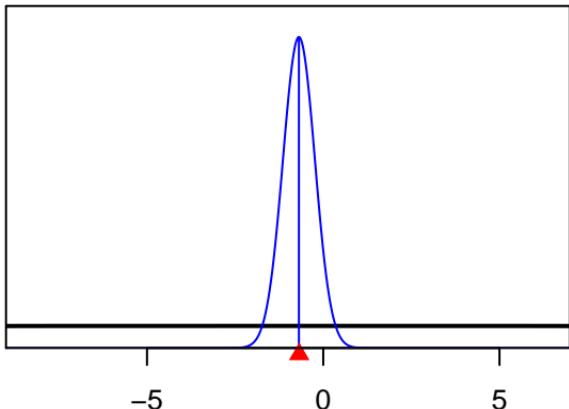
SizeSpline_Val_6_F1-OBJ_N-Q14(1)

Density



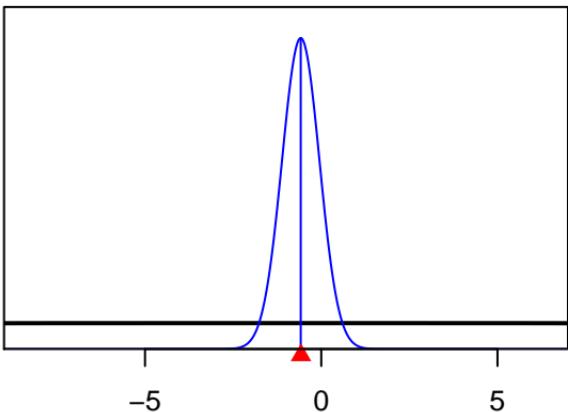
SizeSpline_Val_8_F1-OBJ_N-Q14(1)

Density

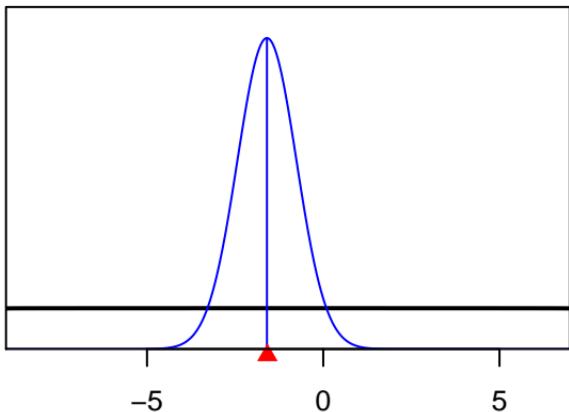


SizeSpline_Val_7_F1-OBJ_N-Q14(1)

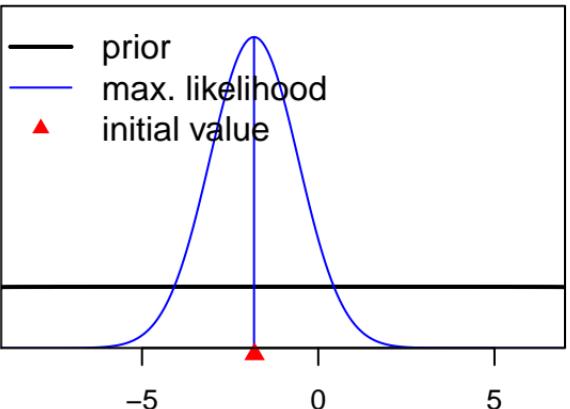
Parameter value



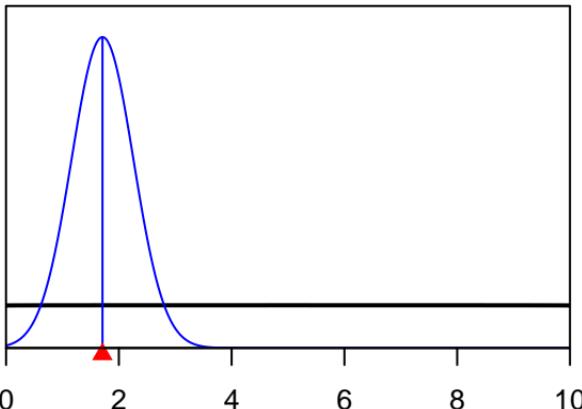
SizeSpline_Val_9_F1-OBJ_N-Q14(1)



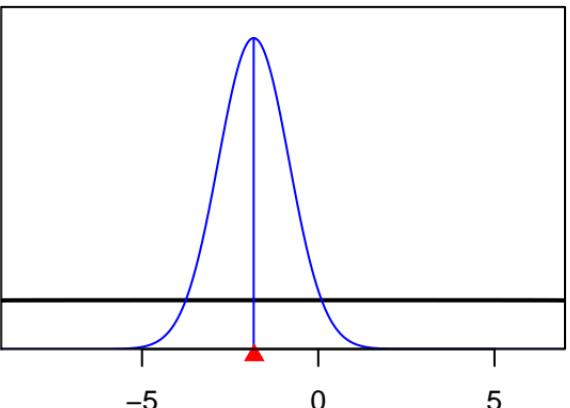
SizeSpline_Val_10_F1-OBJ_N-Q14(1)



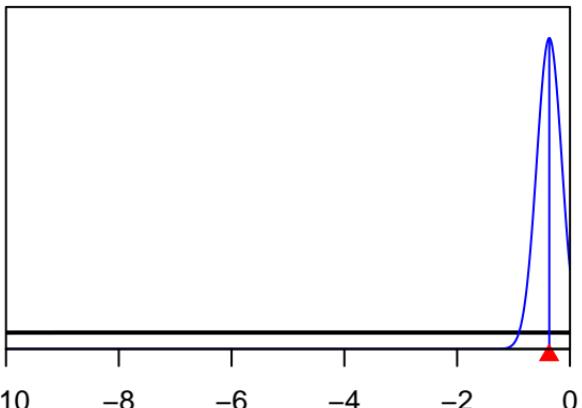
SizeSpline_GradLo_F2-OBJ_Nc_Q14(2)



SizeSpline_Val_11_F1-OBJ_N-Q14(1)

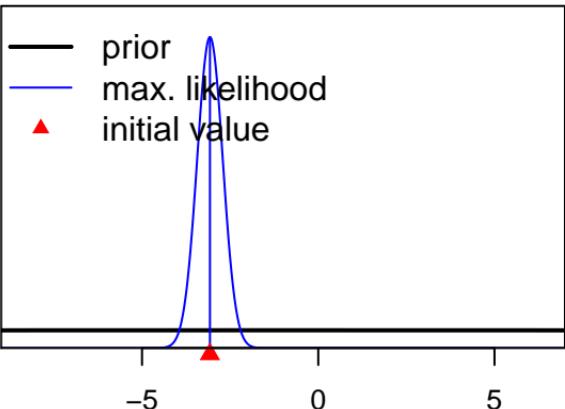


SizeSpline_GradHi_F2-OBJ_Nc_Q14(2)

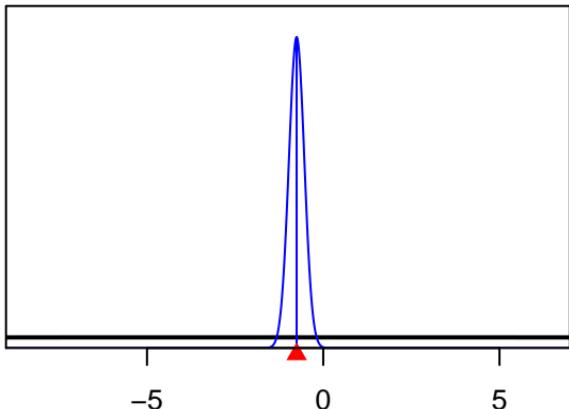


Parameter value

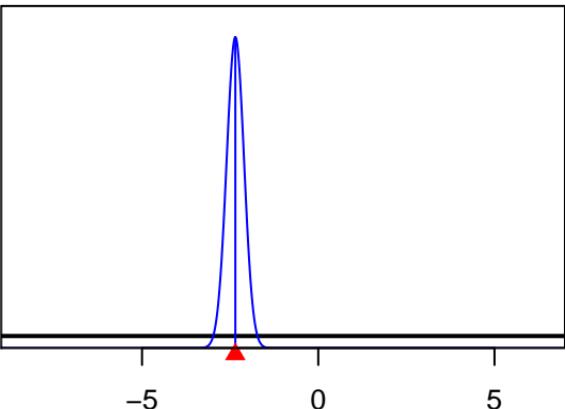
SizeSpline_Val_2_F2-OBJ_Nc_Q14(2)



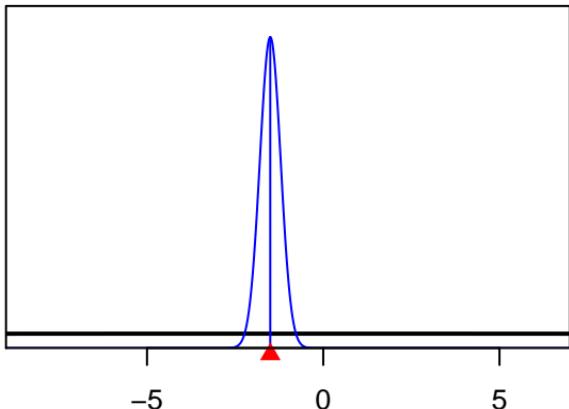
SizeSpline_Val_5_F2-OBJ_Nc_Q14(2)



SizeSpline_Val_3_F2-OBJ_Nc_Q14(2)

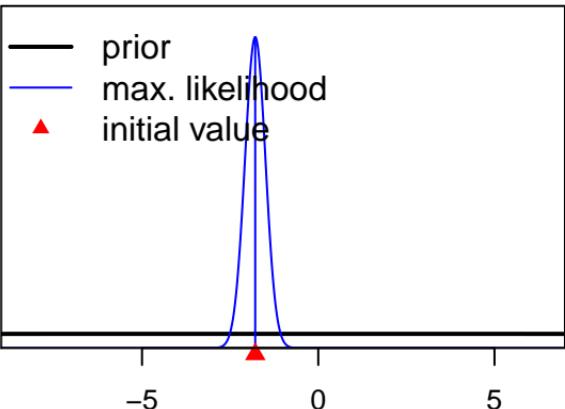


SizeSpline_Val_6_F2-OBJ_Nc_Q14(2)

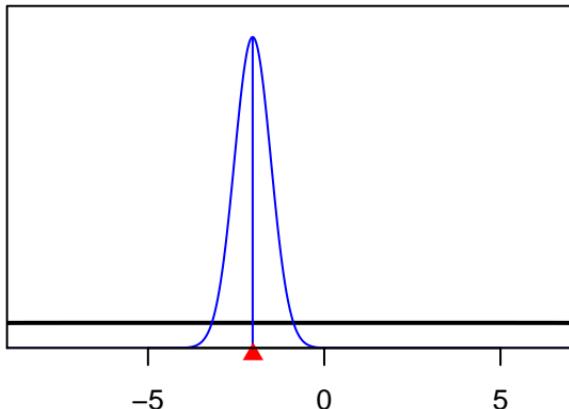


Parameter value

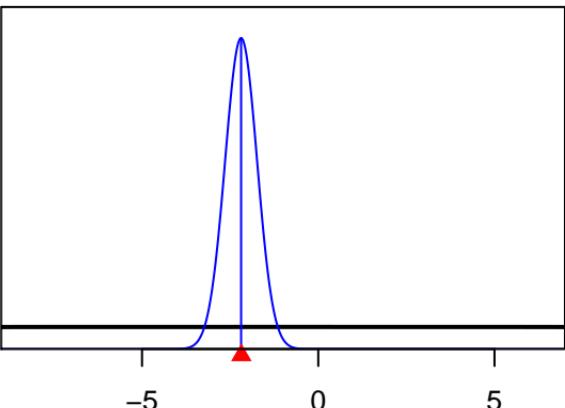
SizeSpline_Val_7_F2-OBJ_Nc_Q14(2)



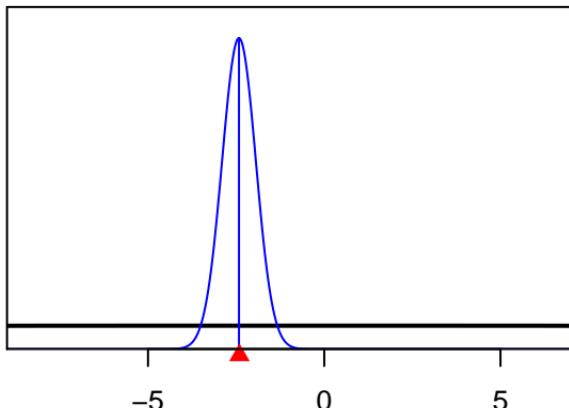
SizeSpline_Val_9_F2-OBJ_Nc_Q14(2)



SizeSpline_Val_8_F2-OBJ_Nc_Q14(2)



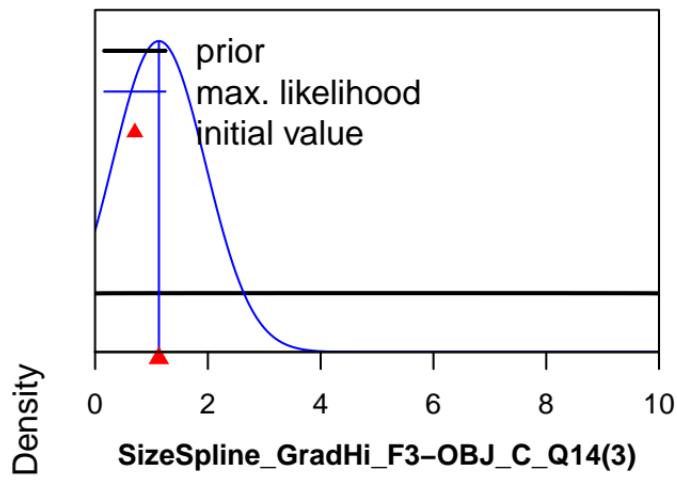
SizeSpline_Val_10_F2-OBJ_Nc_Q14(2)



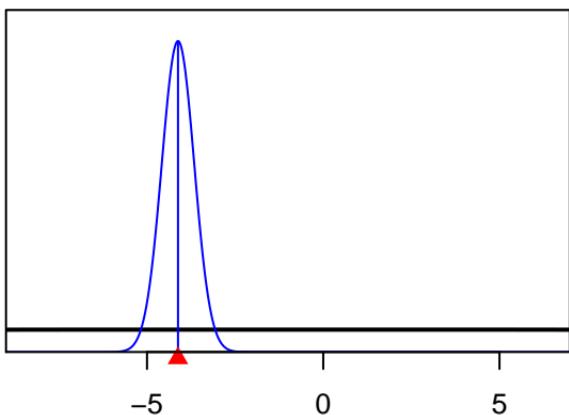
Parameter value

Density

SizeSpline_GradLo_F3-OBJ_C_Q14(3)

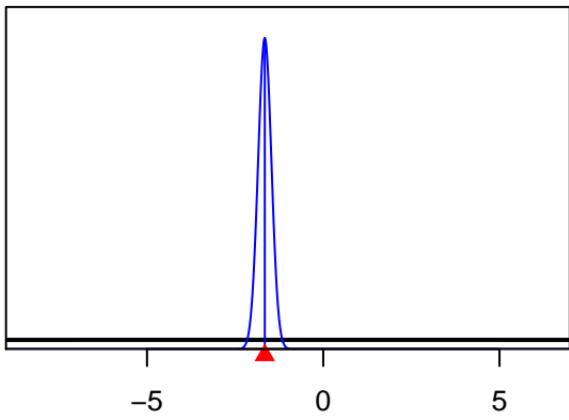


SizeSpline_Val_2_F3-OBJ_C_Q14(3)

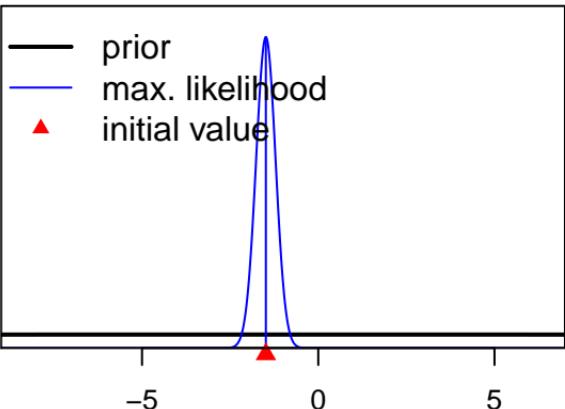


SizeSpline_GradHi_F3-OBJ_C_Q14(3)

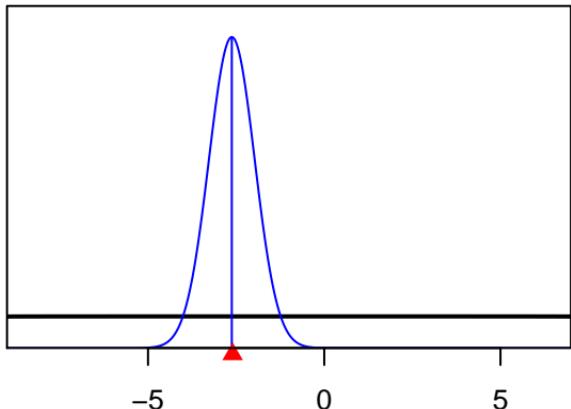
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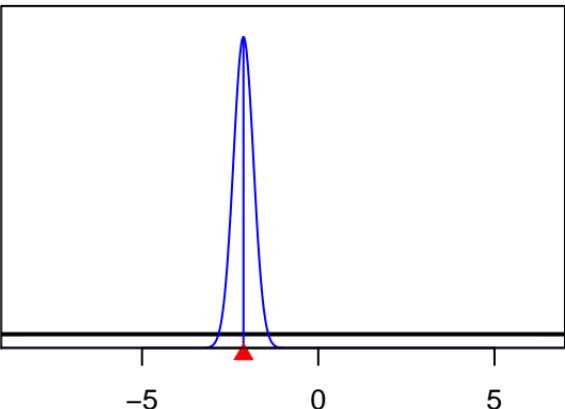
SizeSpline_Val_5_F3-OBJ_C_Q14(3)



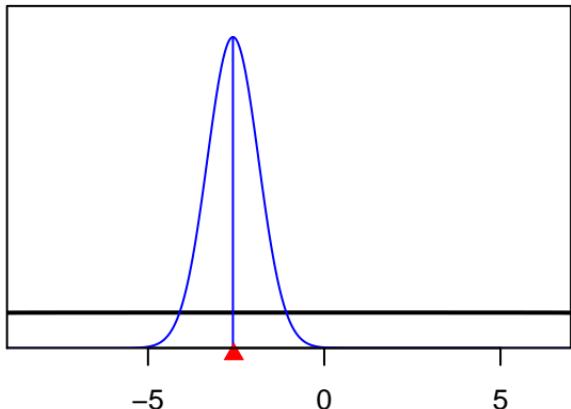
SizeSpline_Val_7_F3-OBJ_C_Q14(3)



SizeSpline_Val_6_F3-OBJ_C_Q14(3)

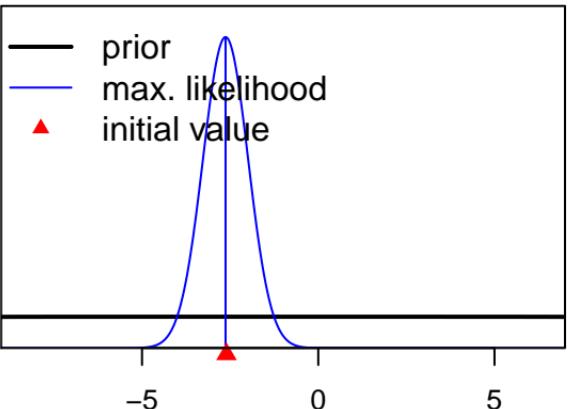


SizeSpline_Val_8_F3-OBJ_C_Q14(3)

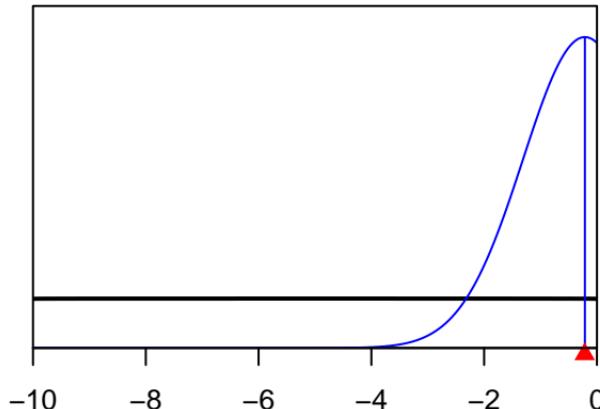


Parameter value

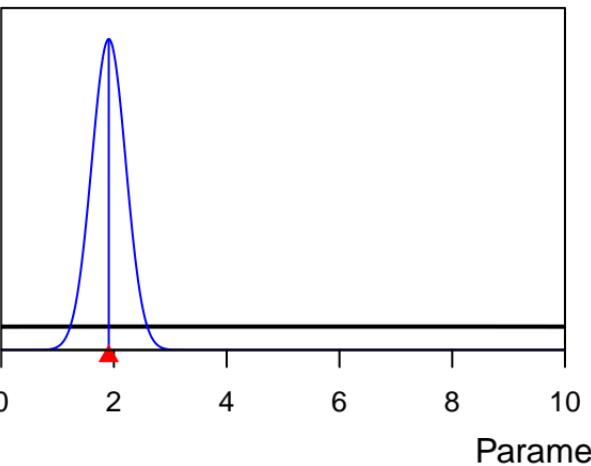
SizeSpline_Val_9_F3-OBJ_C_Q14(3)



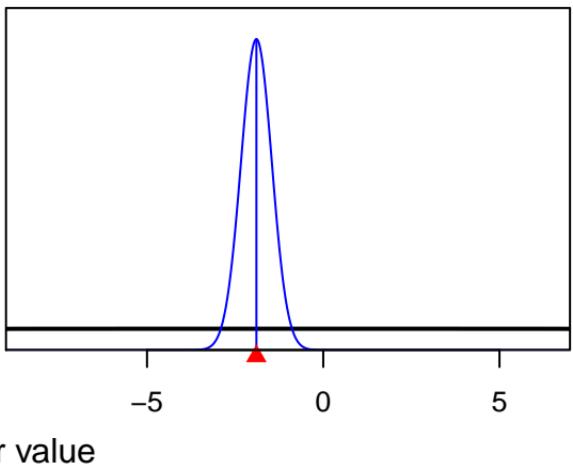
SizeSpline_GradHi_F4-OBJ_Cc_Q14(4)



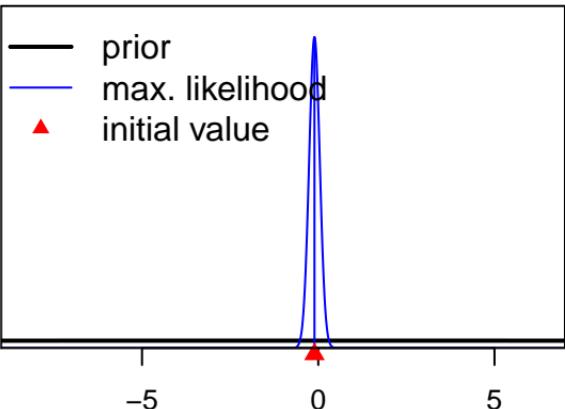
SizeSpline_GradLo_F4-OBJ_Cc_Q14(4)



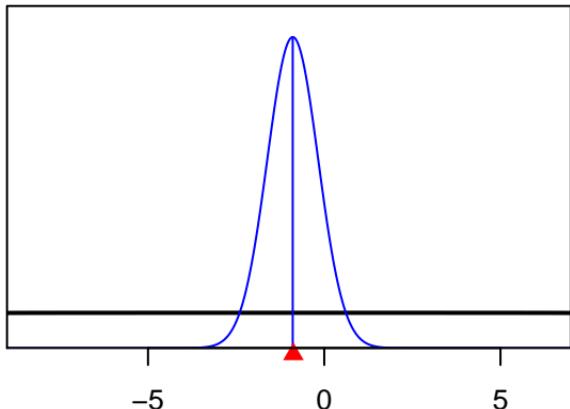
SizeSpline_Val_2_F4-OBJ_Cc_Q14(4)



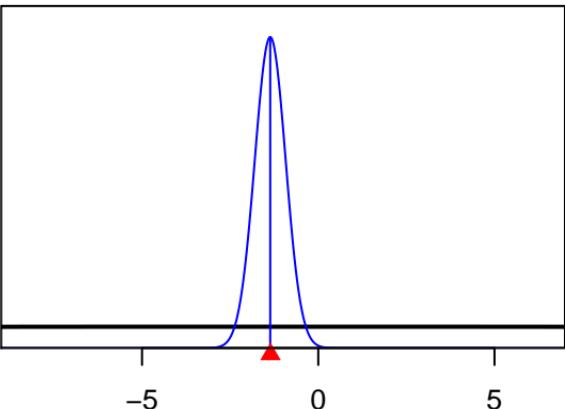
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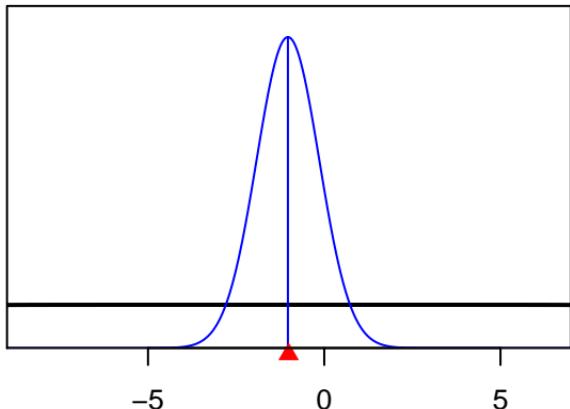
SizeSpline_Val_6_F4-OBJ_Cc_Q14(4)



SizeSpline_Val_5_F4-OBJ_Cc_Q14(4)

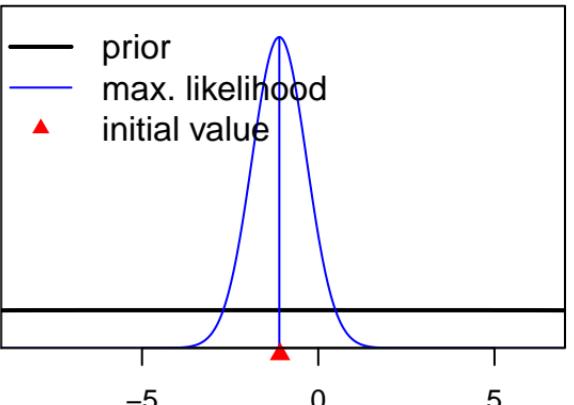


SizeSpline_Val_7_F4-OBJ_Cc_Q14(4)

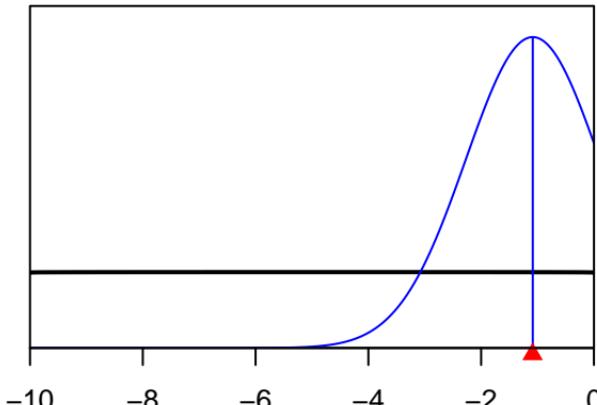


Parameter value

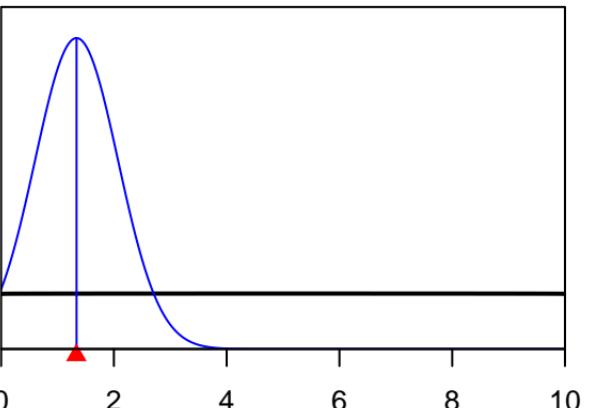
SizeSpline_Val_8_F4-OBJ_Cc_Q14(4)



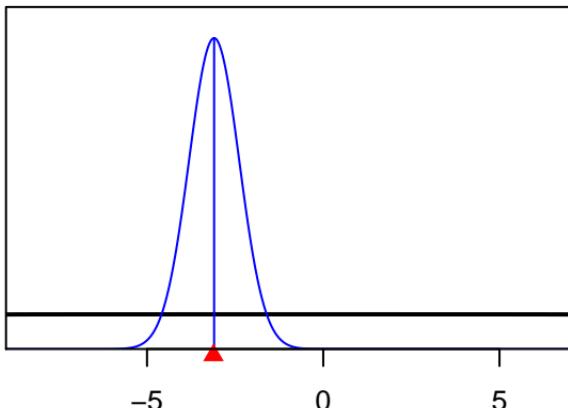
SizeSpline_GradHi_F5-OBJ_S_Q14(5)



SizeSpline_GradLo_F5-OBJ_S_Q14(5)



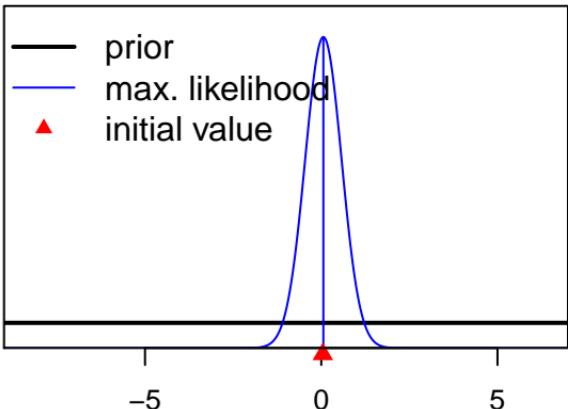
SizeSpline_Val_2_F5-OBJ_S_Q14(5)



Parameter value

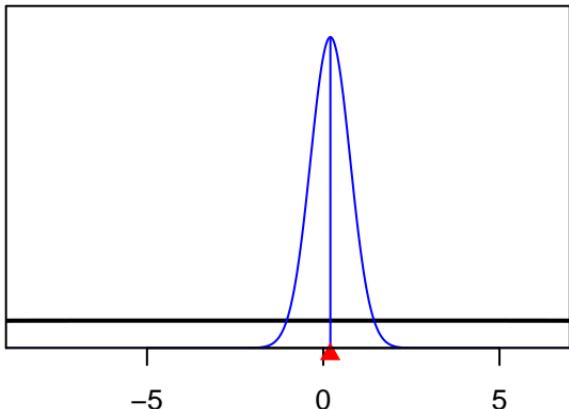
SizeSpline_Val_3_F5-OBJ_S_Q14(5)

Density



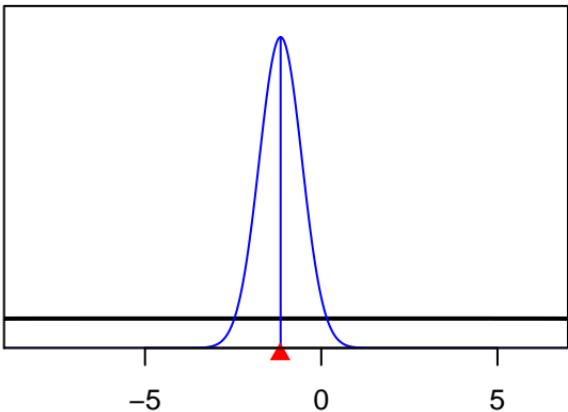
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Density

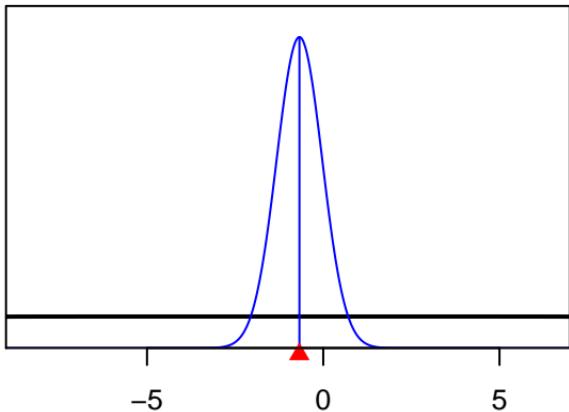


SizeSpline_Val_4_F5-OBJ_S_Q14(5)

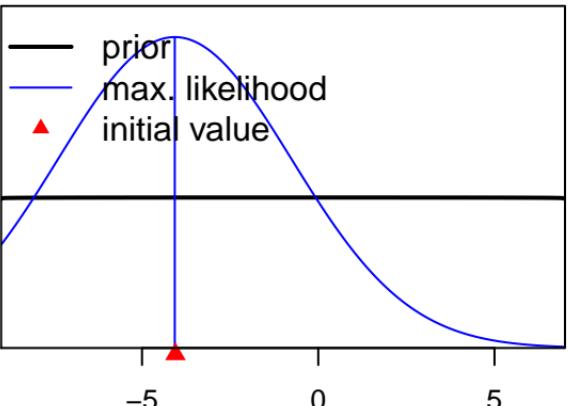
Parameter value



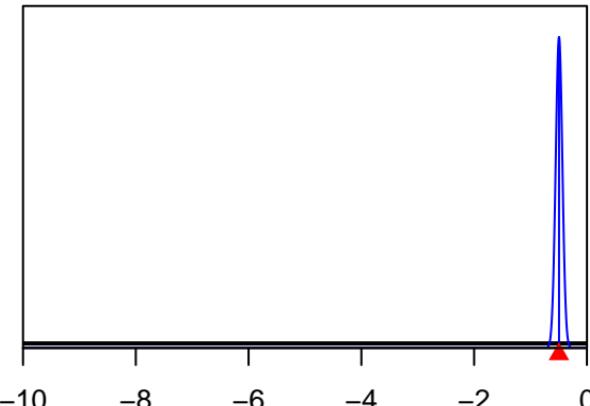
SizeSpline_Val_6_F5-OBJ_S_Q14(5)



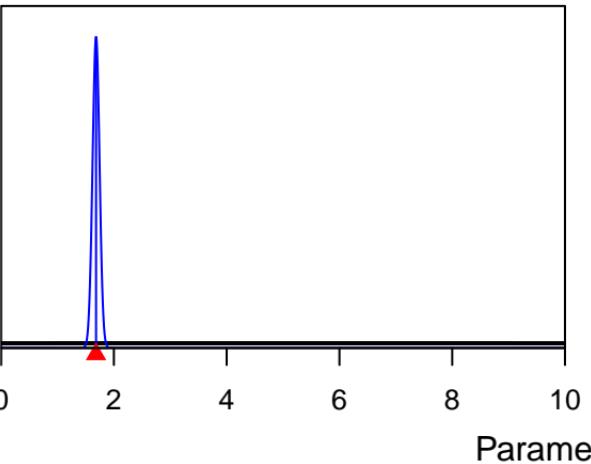
SizeSpline_Val_8_F5-OBJ_S_Q14(5)



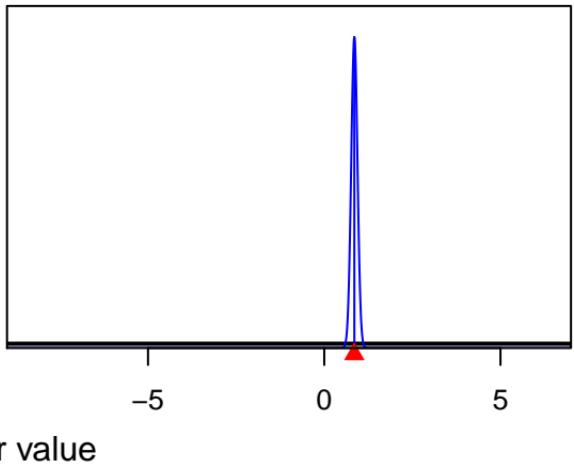
SizeSpline_GradHi_F6-OBJ_N_Q23(6)



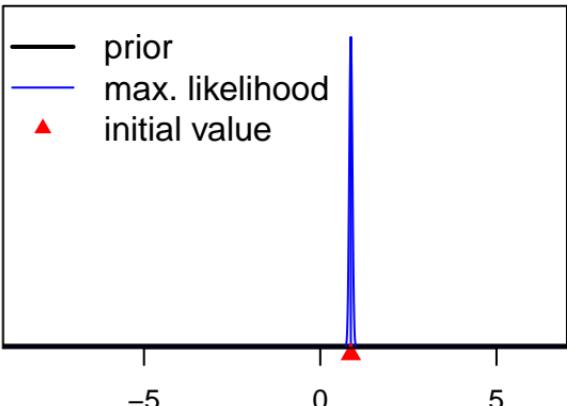
SizeSpline_GradLo_F6-OBJ_N_Q23(6)



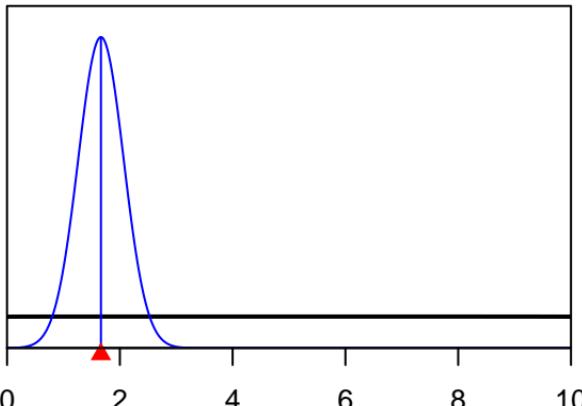
SizeSpline_Val_2_F6-OBJ_N_Q23(6)



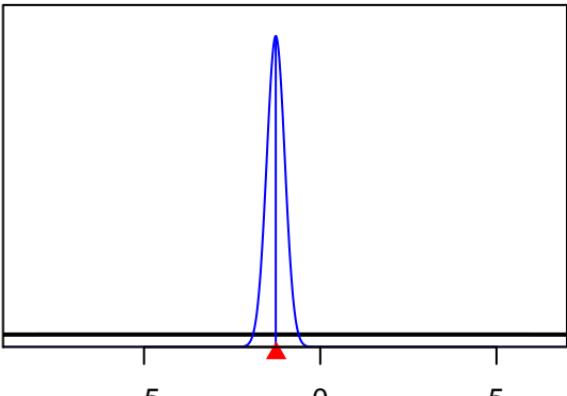
SizeSpline_Val_4_F6-OBJ_N_Q23(6)



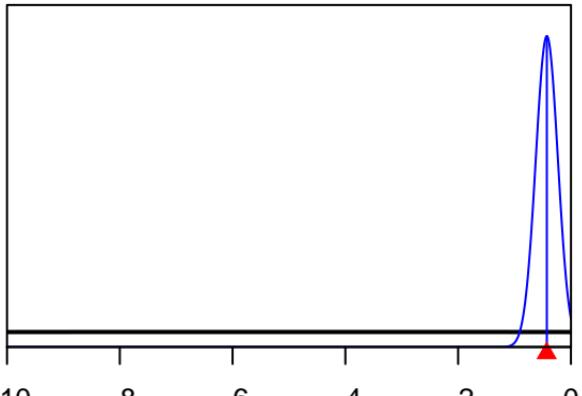
SizeSpline_GradLo_F7-OBJ_Nc_Q23(7)



SizeSpline_Val_5_F6-OBJ_N_Q23(6)

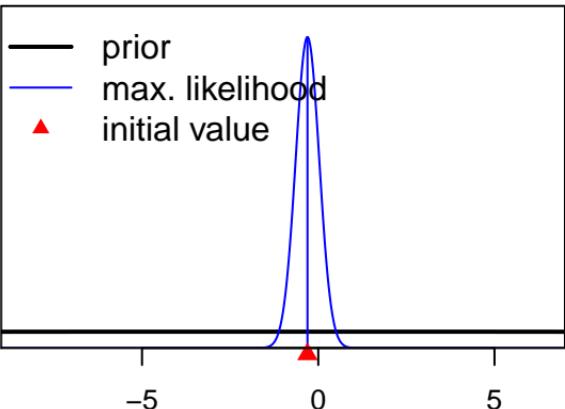


SizeSpline_GradHi_F7-OBJ_Nc_Q23(7)

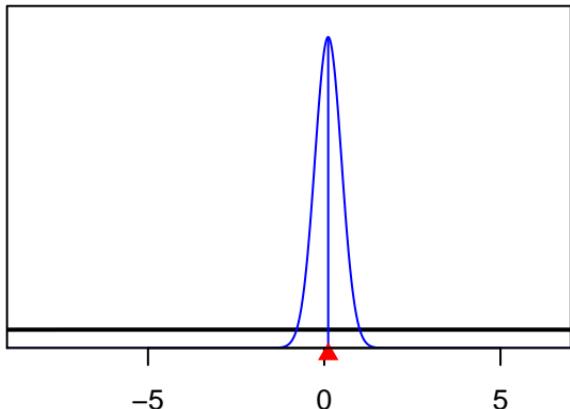


Parameter value

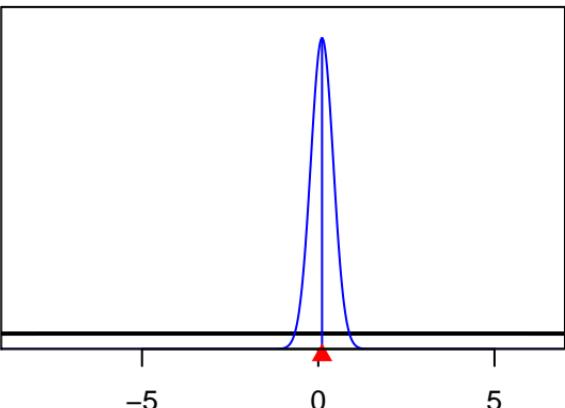
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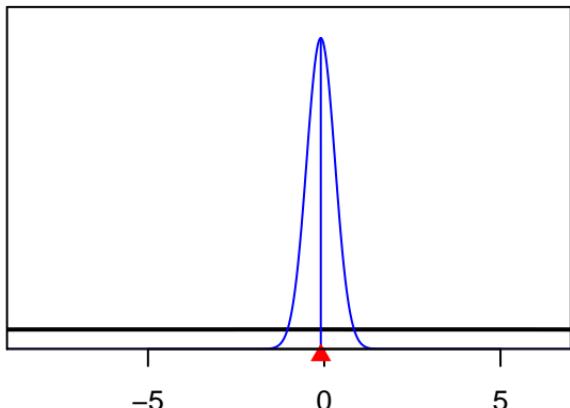
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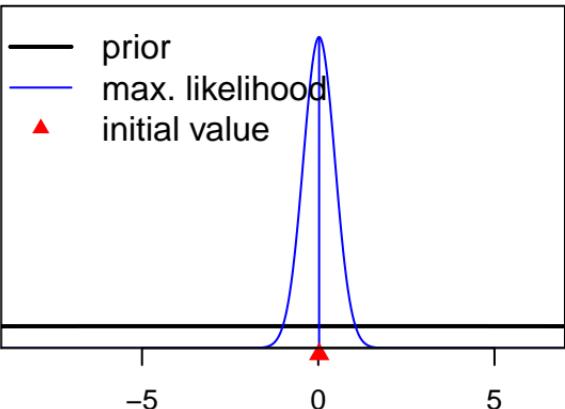


SizeSpline_Val_6_F7-OBJ_Nc_Q23(7)

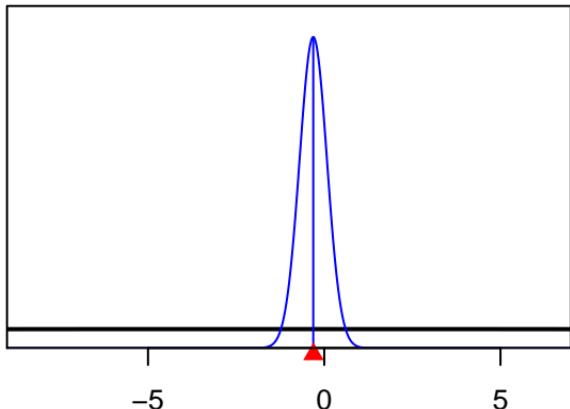


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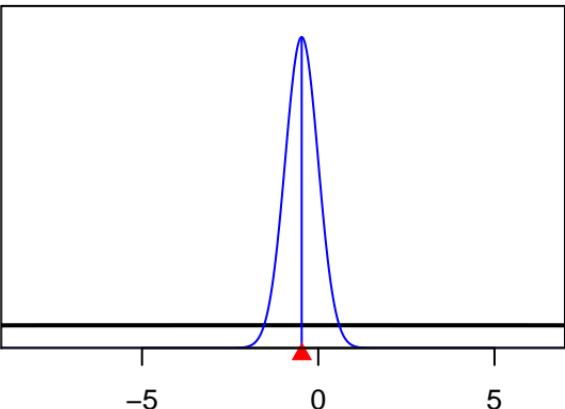
SizeSpline_Val_7_F7-OBJ_Nc_Q23(7)



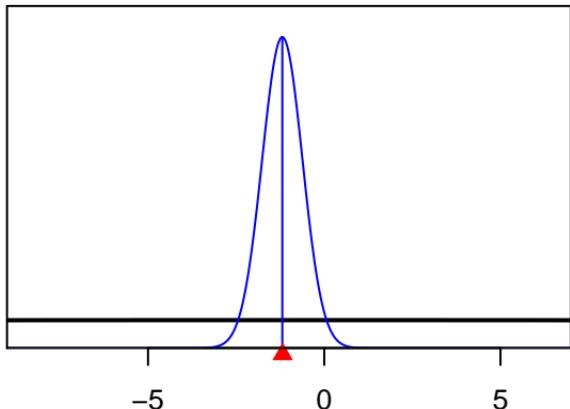
SizeSpline_Val_9_F7-OBJ_Nc_Q23(7)



SizeSpline_Val_8_F7-OBJ_Nc_Q23(7)

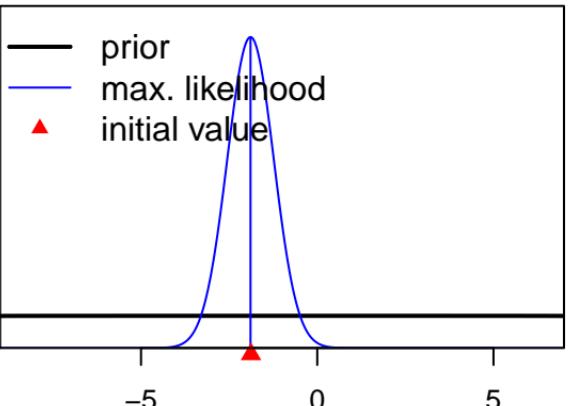


SizeSpline_Val_10_F7-OBJ_Nc_Q23(7)

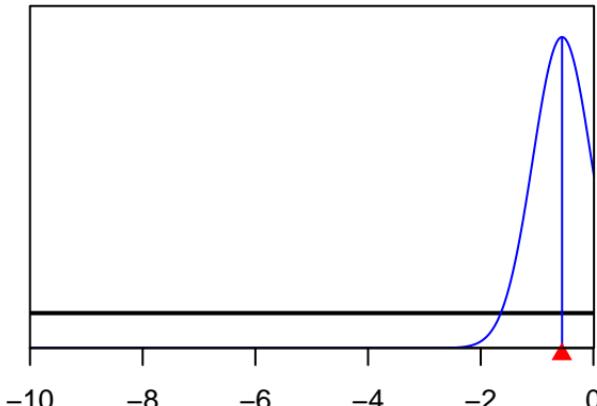


Parameter value

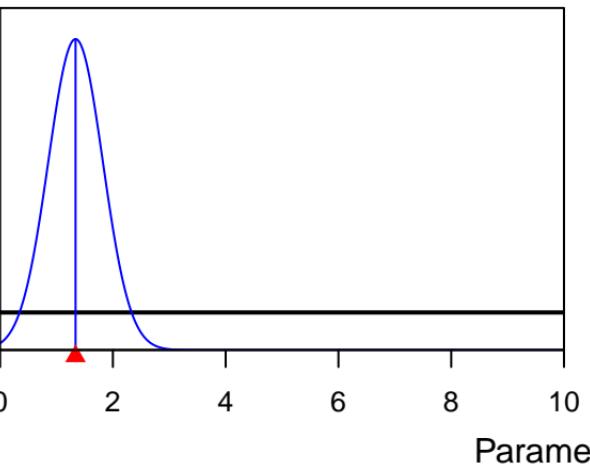
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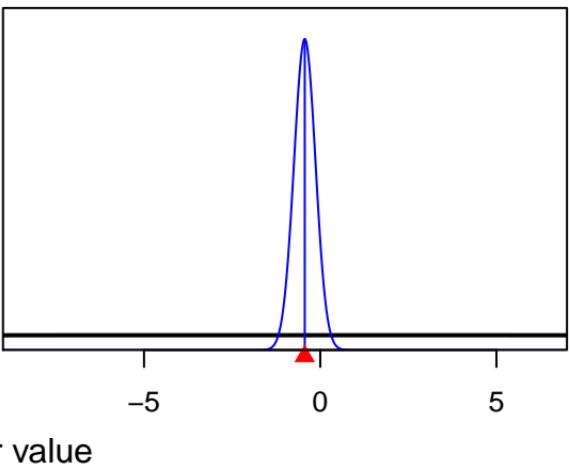
SizeSpline_GradHi_F8-OBJ_C_Q23(8)



SizeSpline_GradLo_F8-OBJ_C_Q23(8)

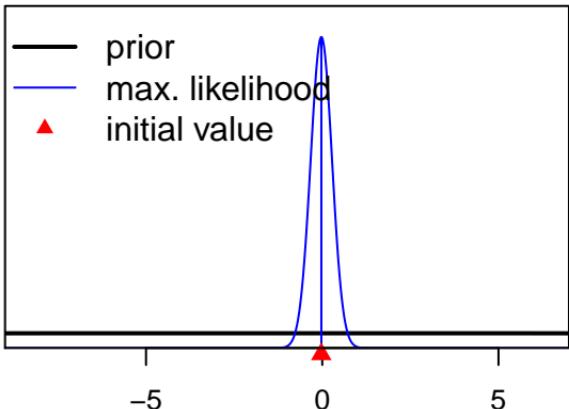


SizeSpline_Val_2_F8-OBJ_C_Q23(8)



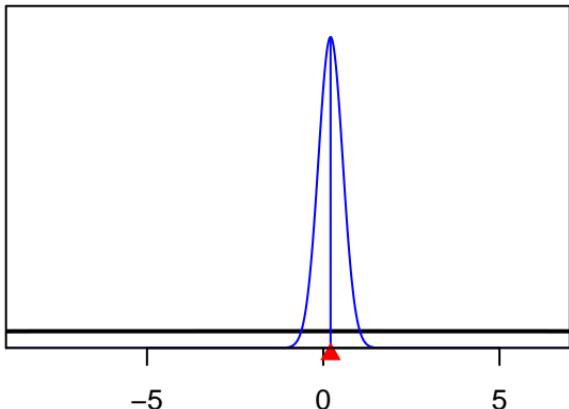
SizeSpline_Val_3_F8-OBJ_C_Q23(8)

Density



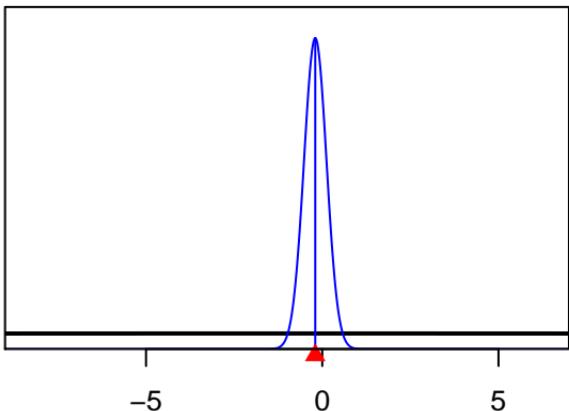
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Density

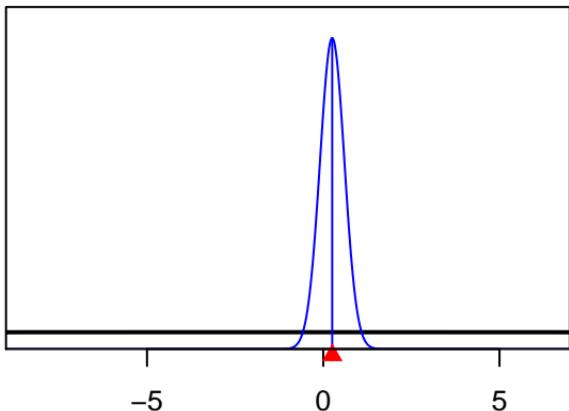


SizeSpline_Val_4_F8-OBJ_C_Q23(8)

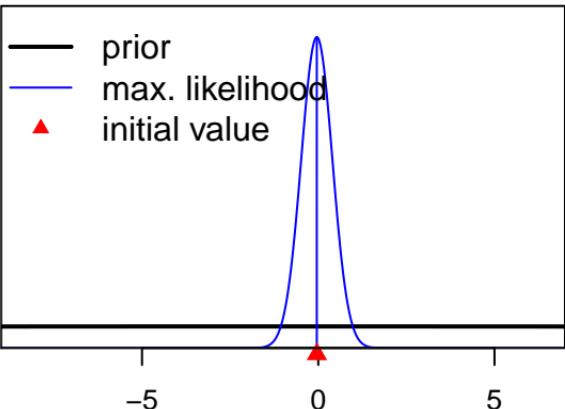
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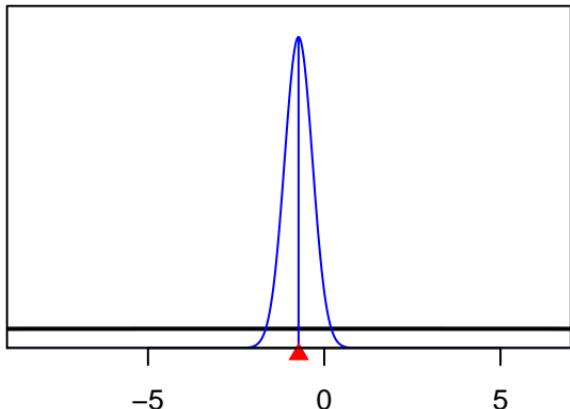
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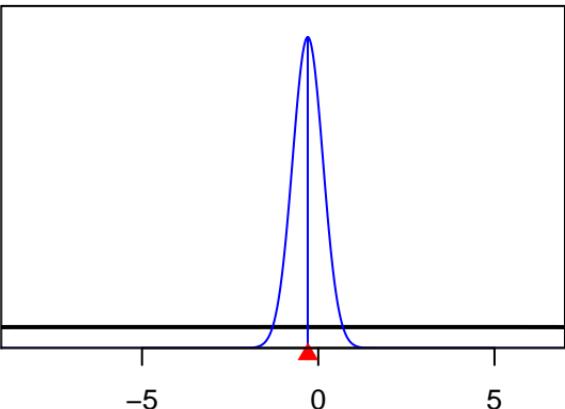
SizeSpline_Val_8_F8-OBJ_C_Q23(8)



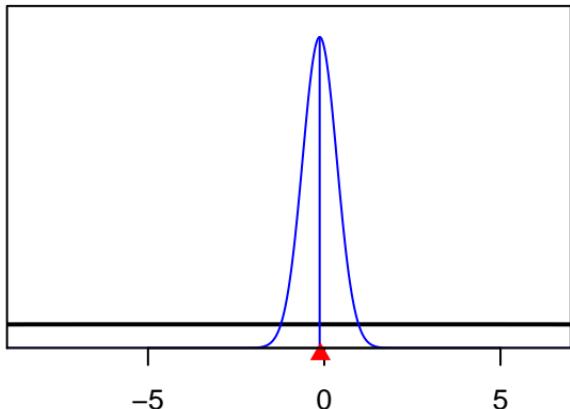
SizeSpline_Val_10_F8-OBJ_C_Q23(8)



SizeSpline_Val_9_F8-OBJ_C_Q23(8)

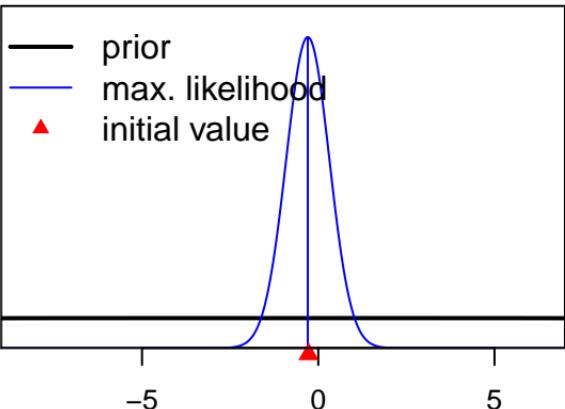


SizeSpline_Val_11_F8-OBJ_C_Q23(8)

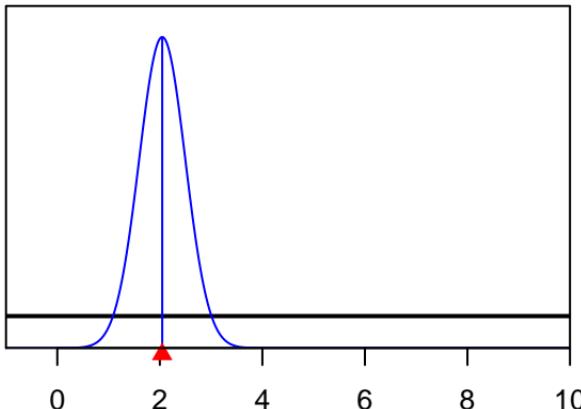


Parameter value

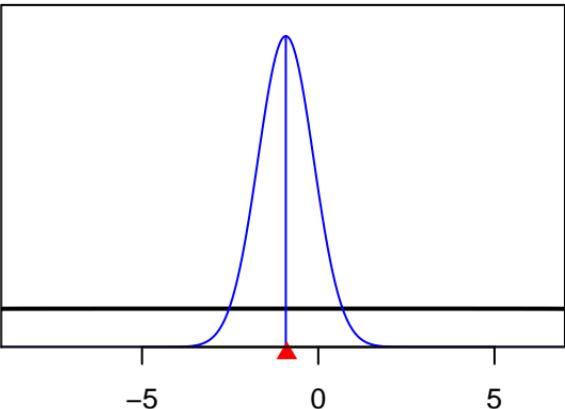
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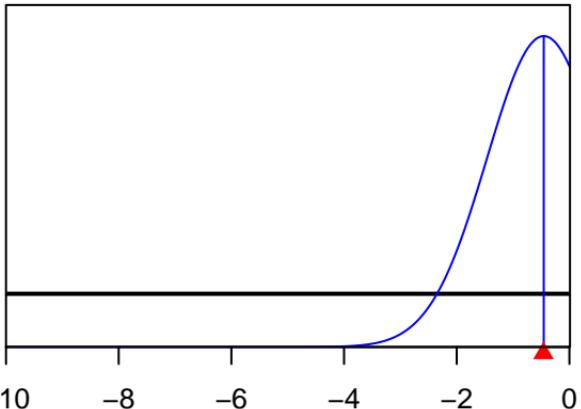
SizeSpline_GradLo_F9–OBJ_Cc_Q23(9)



SizeSpline_Val_13_F8–OBJ_C_Q23(8)

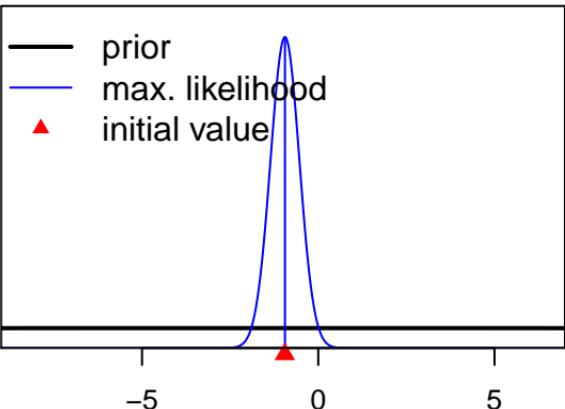


SizeSpline_GradHi_F9–OBJ_Cc_Q23(9)

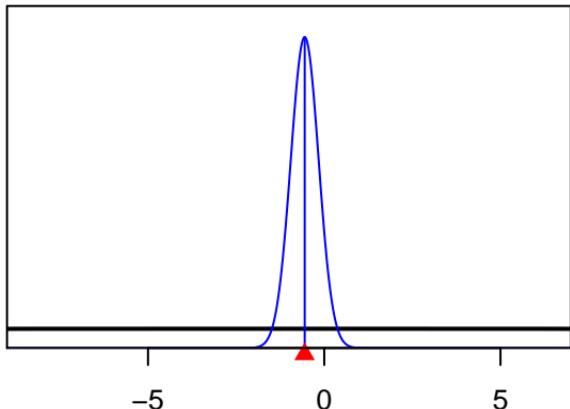


Parameter value

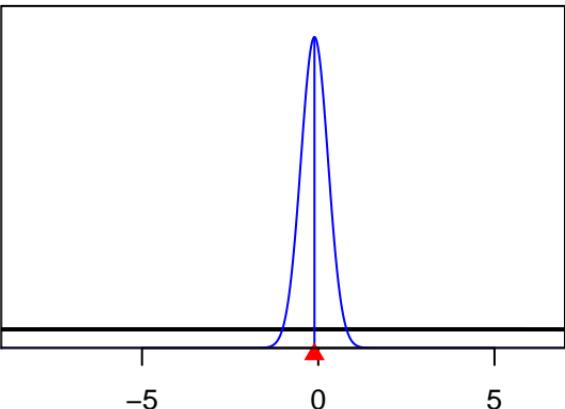
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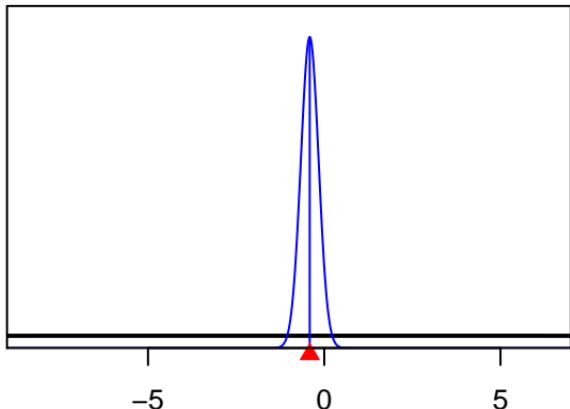
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SizeSpline_Val_3_F9-OBJ_Cc_Q23(9)



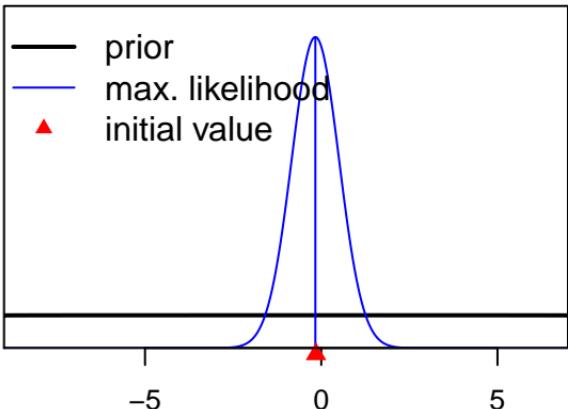
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Parameter value

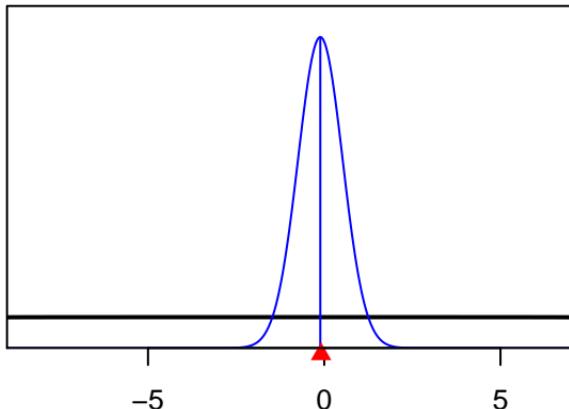
SizeSpline_Val_7_F9-OBJ_Cc_Q23(9)

Density



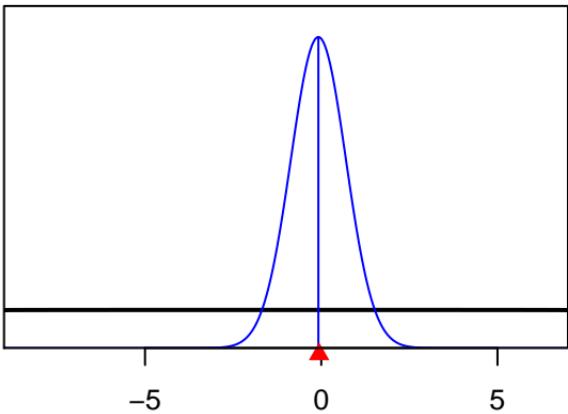
SizeSpline_Val_9_F9-OBJ_Cc_Q23(9)

Density

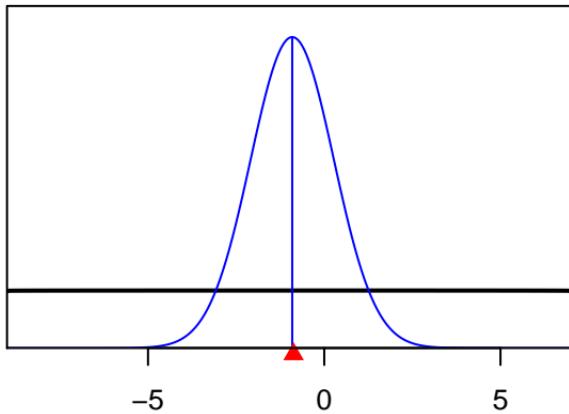


SizeSpline_Val_8_F9-OBJ_Cc_Q23(9)

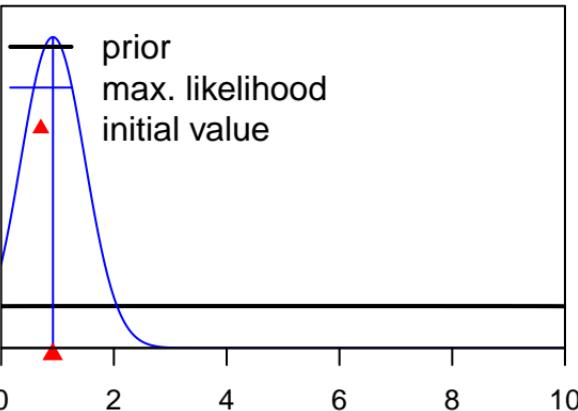
Parameter value



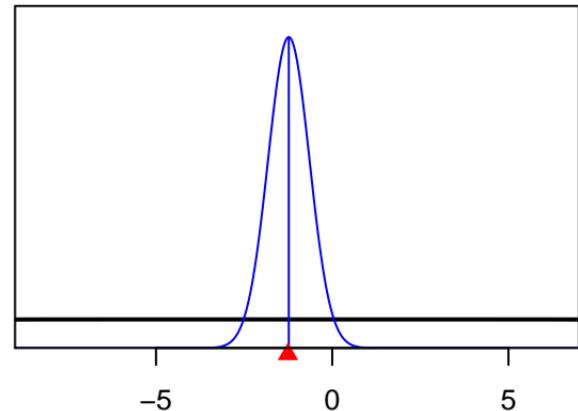
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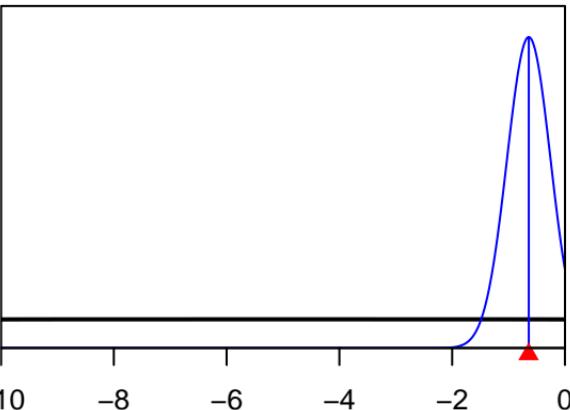
SizeSpline_GradLo_F10-OBJ_S_Q23(10)



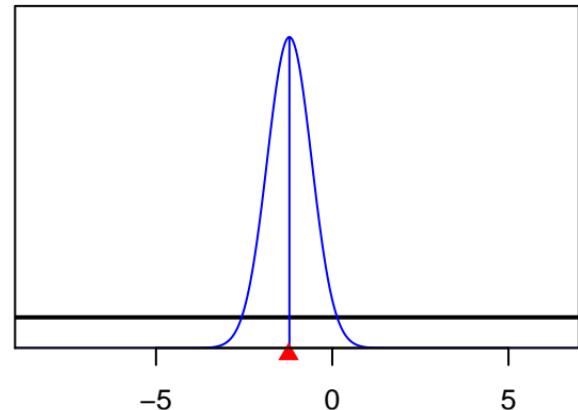
SizeSpline_Val_2_F10-OBJ_S_Q23(10)



SizeSpline_GradHi_F10-OBJ_S_Q23(10)

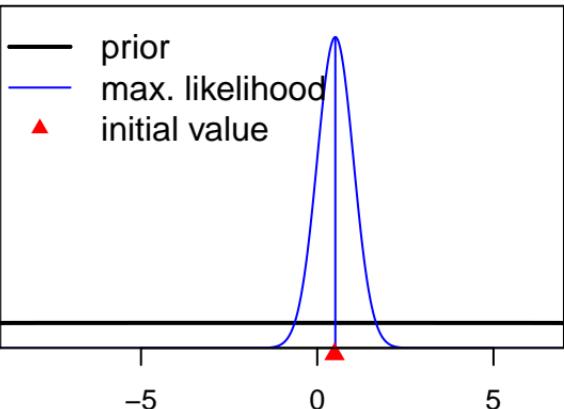


SizeSpline_Val_3_F10-OBJ_S_Q23(10)

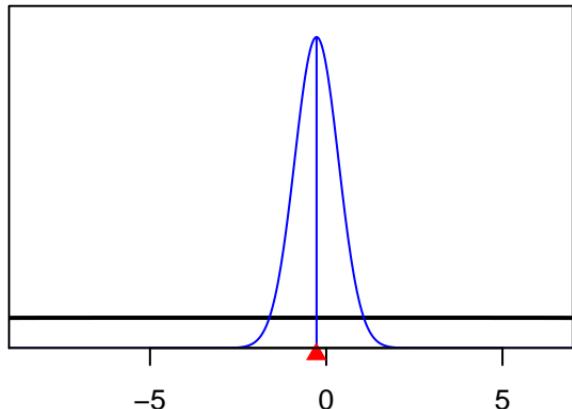


Parameter value

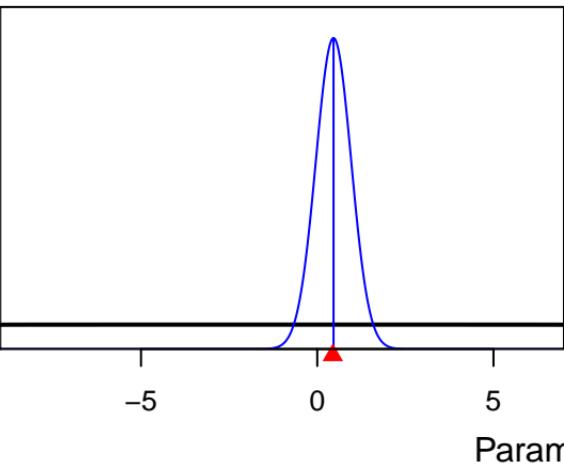
SizeSpline_Val_4_F10-OBJ_S_Q23(10)



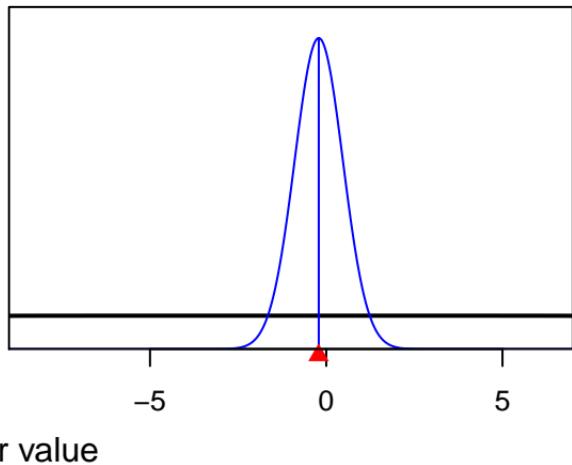
SizeSpline_Val_6_F10-OBJ_S_Q23(10)



SizeSpline_Val_5_F10-OBJ_S_Q23(10)



SizeSpline_Val_7_F10-OBJ_S_Q23(10)

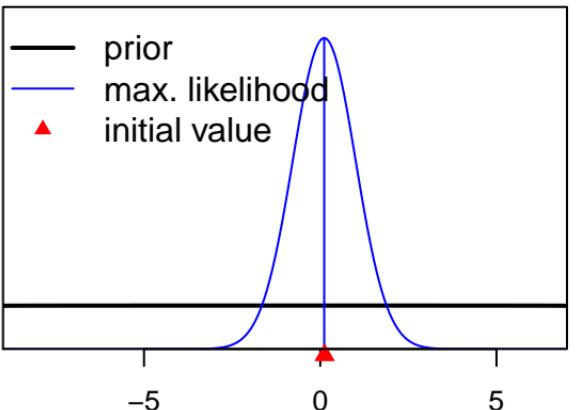


Parameter value

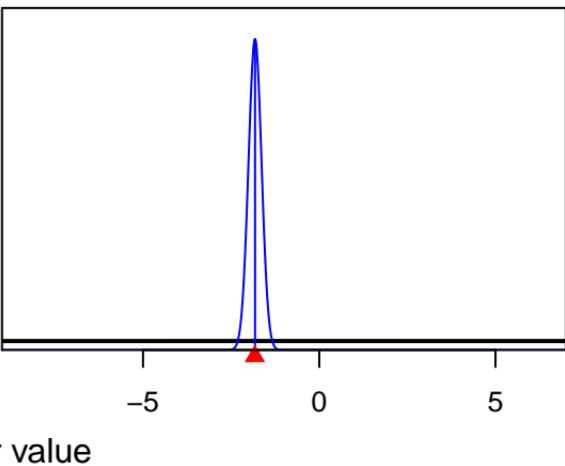
SizeSpline_Val_9_F10-OBJ_S_Q23(10)

SizeSpline_GradHi_F11-NOA_N(11)

Density



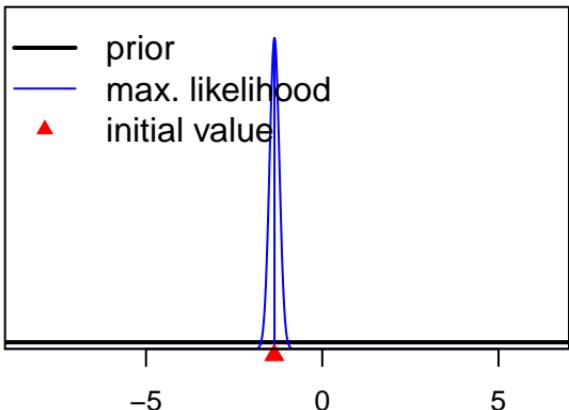
SizeSpline_GradLo_F11-NOA_N(11)



Parameter value

SizeSpline_Val_3_F11-NOA_N(11)

Density

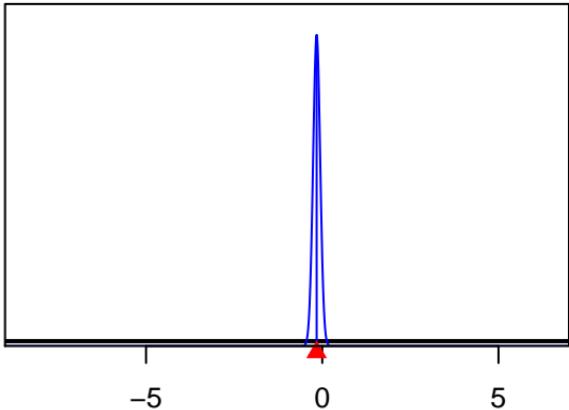


SizeSpline_Val_6_F11-NOA_N(11)

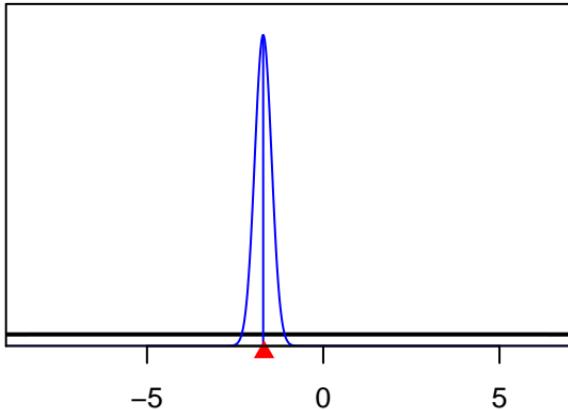
SizeSpline_Val_7_F11-NOA_N(11)

Parameter value

SizeSpline_Val_4_F11-NOA_N(11)

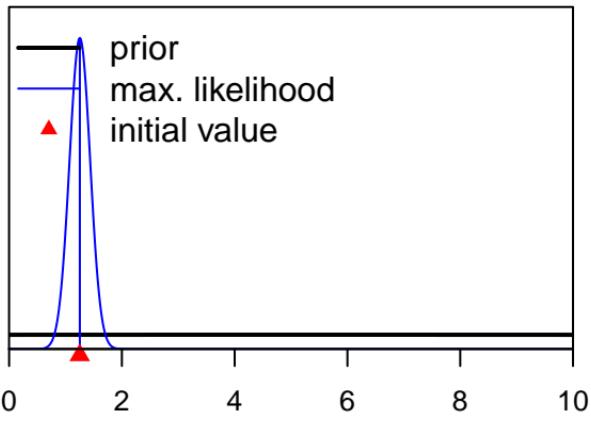


SizeSpline_Val_7_F11-NOA_N(11)

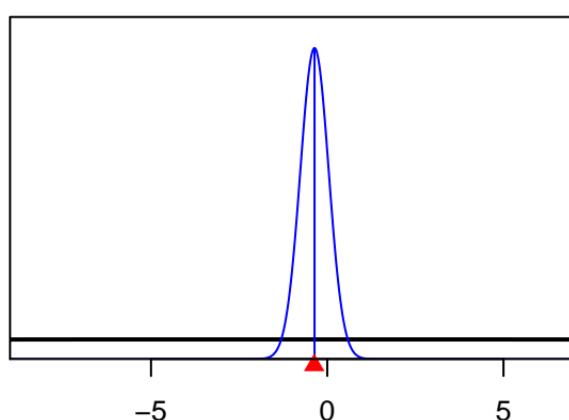


SizeSpline_GradLo_F12-NOA_C(12)

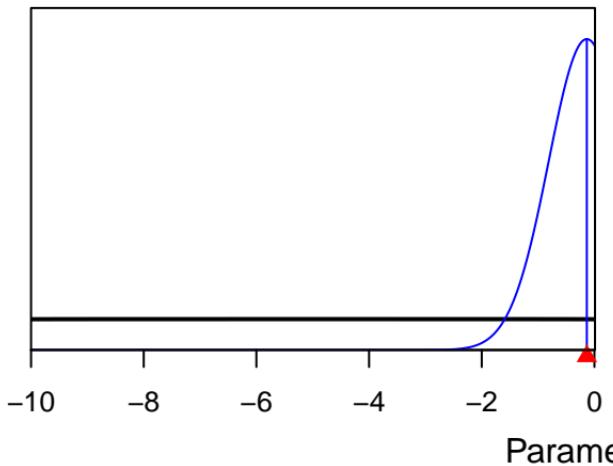
Density



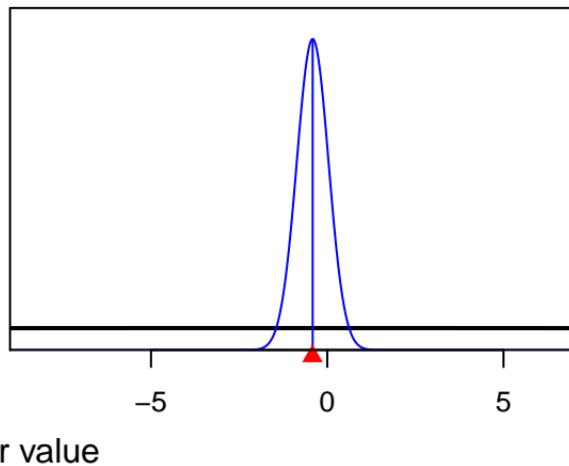
SizeSpline_Val_2_F12-NOA_C(12)



SizeSpline_GradHi_F12-NOA_C(12)

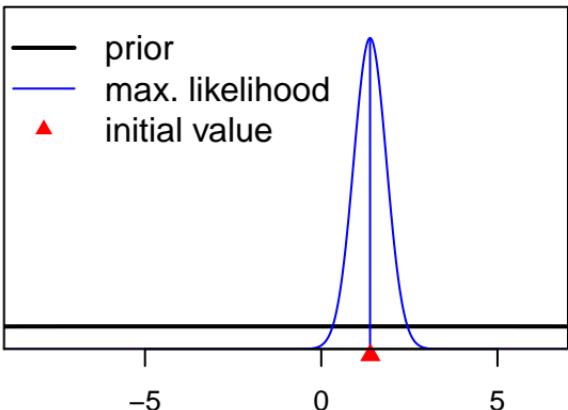


SizeSpline_Val_3_F12-NOA_C(12)

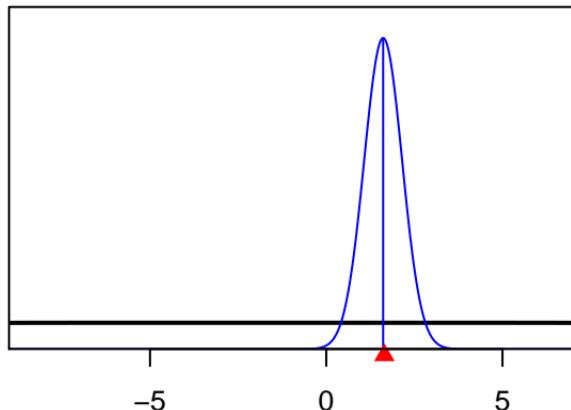


SizeSpline_Val_5_F12-NOA_C(12)

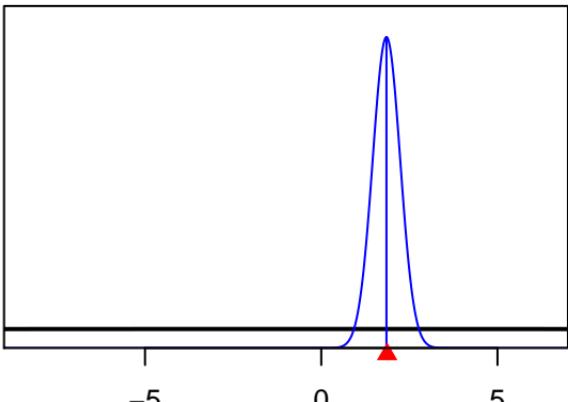
Density



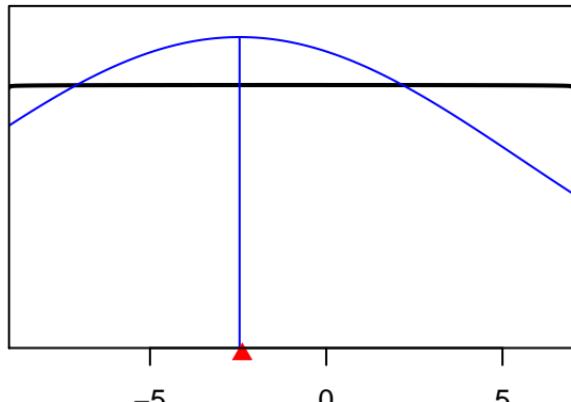
SizeSpline_Val_7_F12-NOA_C(12)



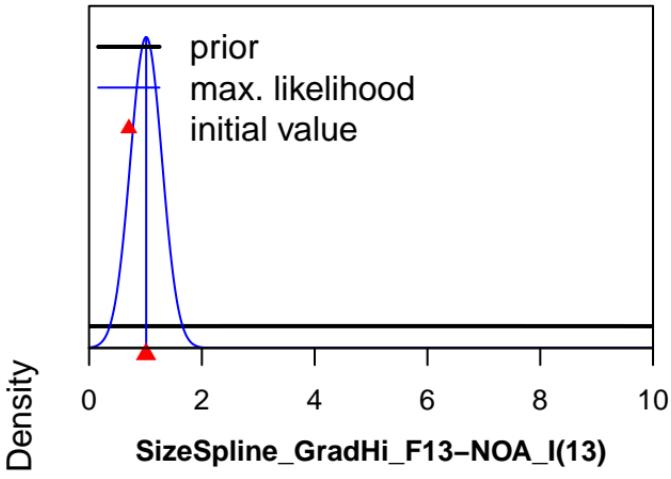
SizeSpline_Val_6_F12-NOA_C(12)



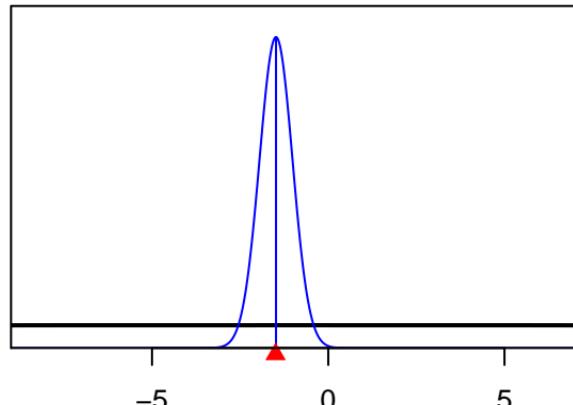
SizeSpline_Val_8_F12-NOA_C(12)



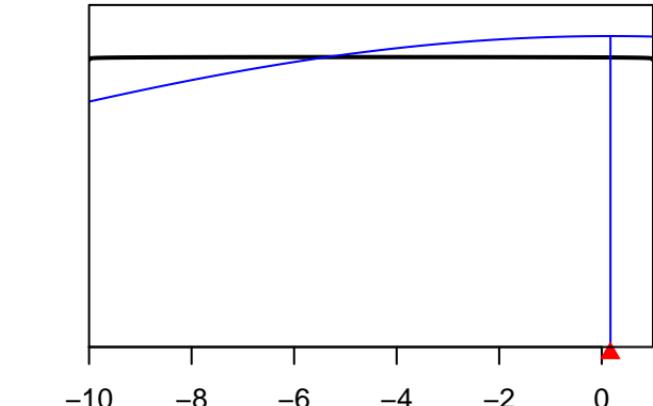
SizeSpline_GradLo_F13-NOA_I(13)



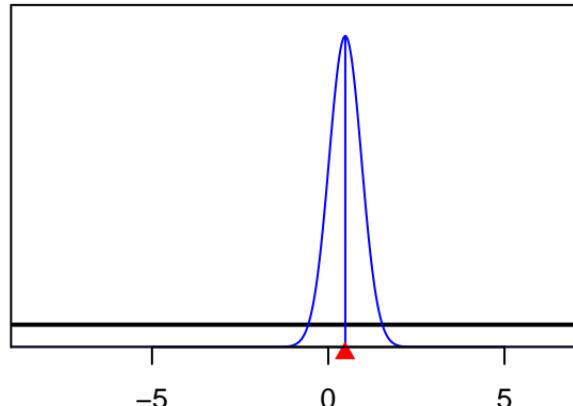
SizeSpline_Val_2_F13-NOA_I(13)



SizeSpline_GradHi_F13-NOA_I(13)

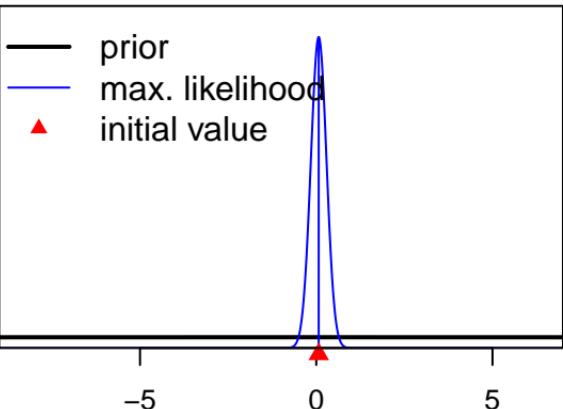


SizeSpline_Val_3_F13-NOA_I(13)

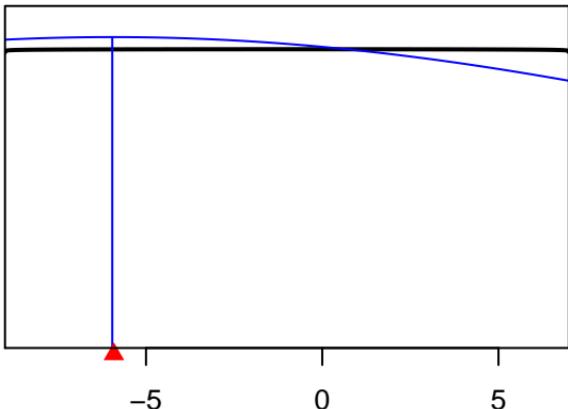


Parameter value

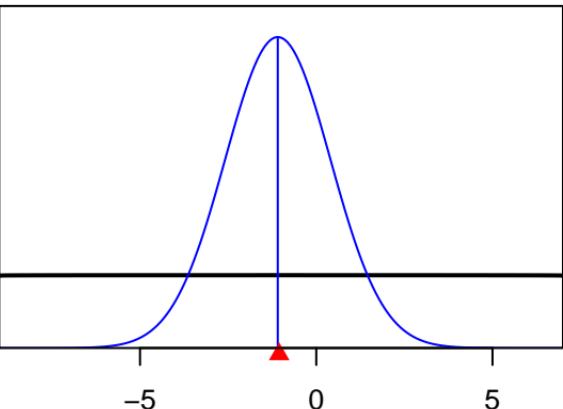
SizeSpline_Val_5_F13–NOA_I(13)



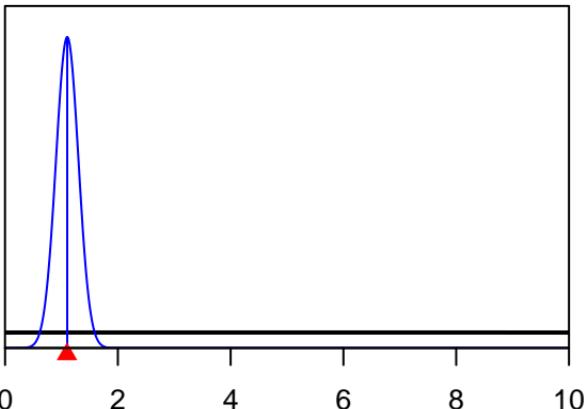
SizeSpline_Val_7_F13–NOA_I(13)



SizeSpline_Val_6_F13–NOA_I(13)

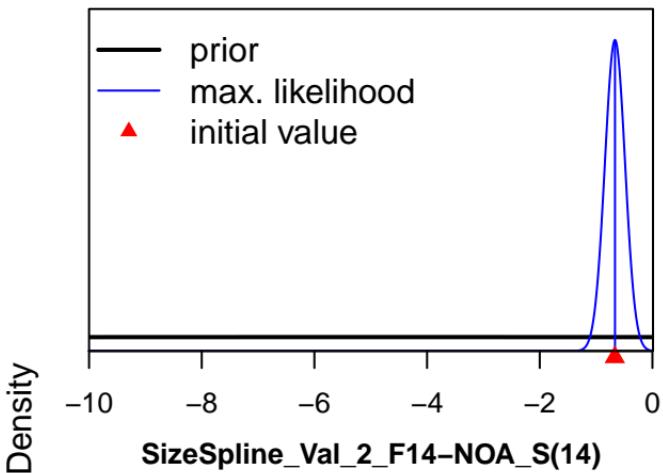


SizeSpline_GradLo_F14–NOA_S(14)

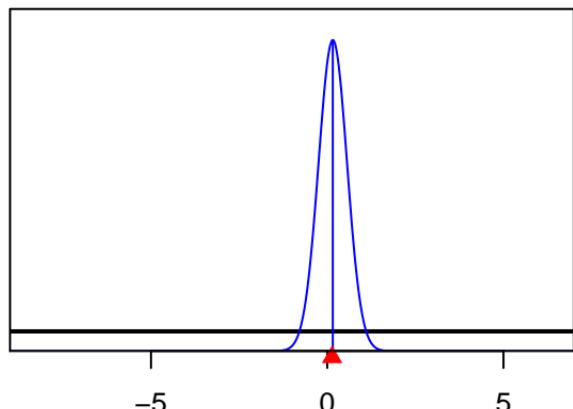


Parameter value

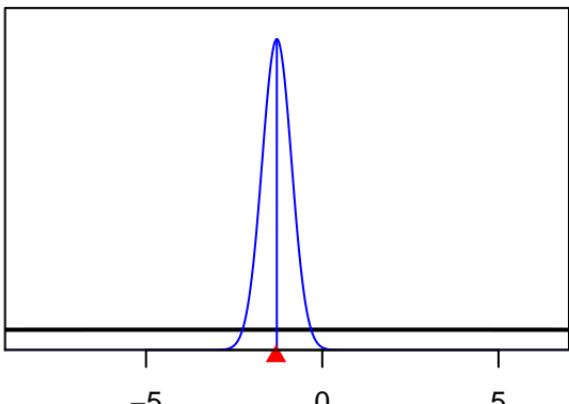
SizeSpline_GradHi_F14-NOA_S(14)



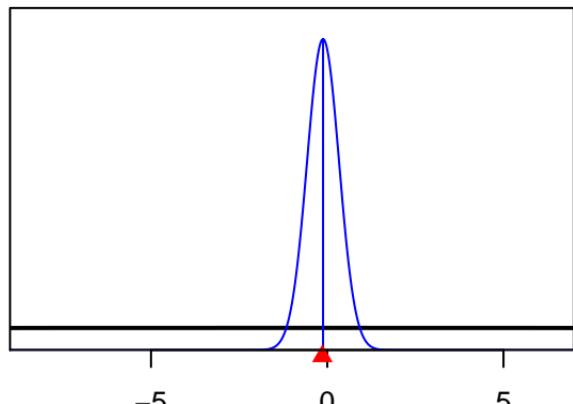
SizeSpline_Val_3_F14-NOA_S(14)



SizeSpline_Val_2_F14-NOA_S(14)



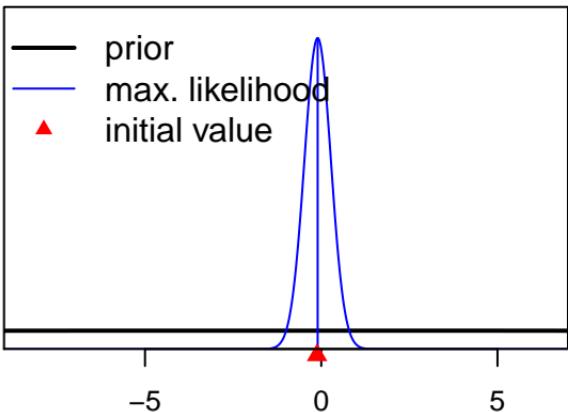
SizeSpline_Val_4_F14-NOA_S(14)



Parameter value

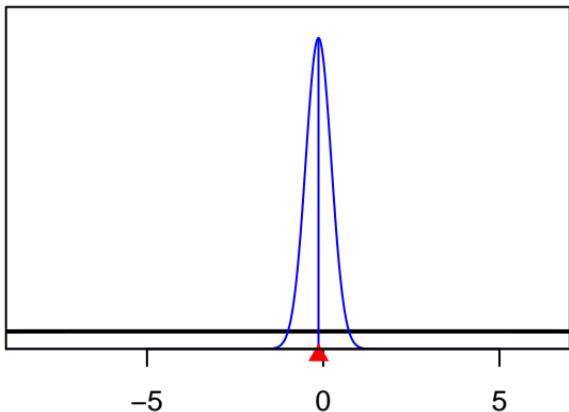
SizeSpline_Val_5_F14–NOA_S(14)

Density



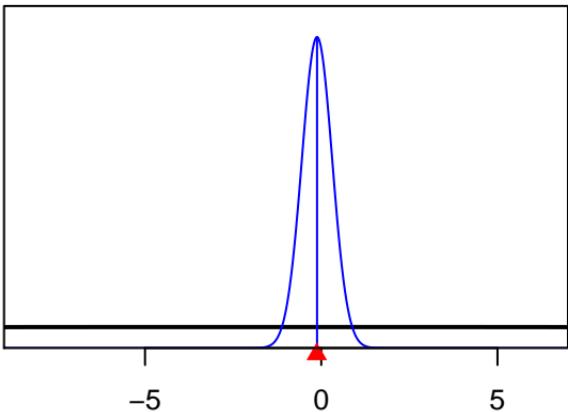
SizeSpline_Val_8_F14–NOA_S(14)

Density

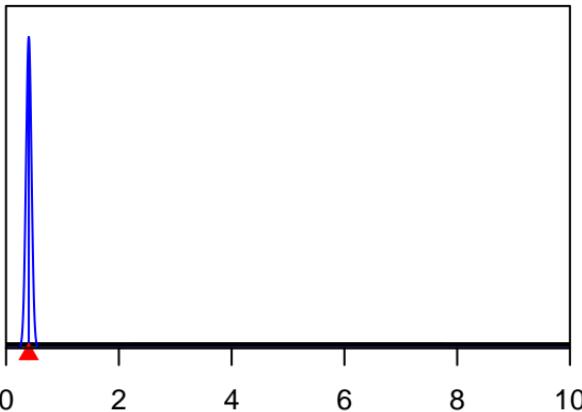


SizeSpline_Val_6_F14–NOA_S(14)

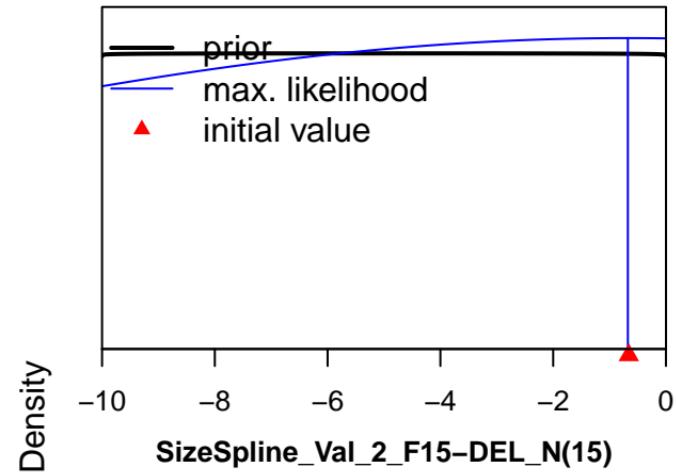
Parameter value



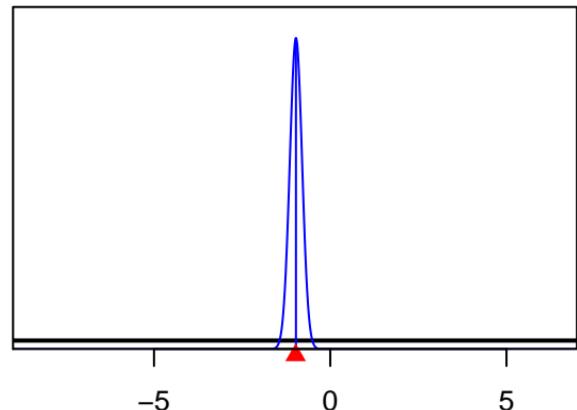
SizeSpline_GradLo_F15–DEL_N(15)



SizeSpline_GradHi_F15-DEL_N(15)



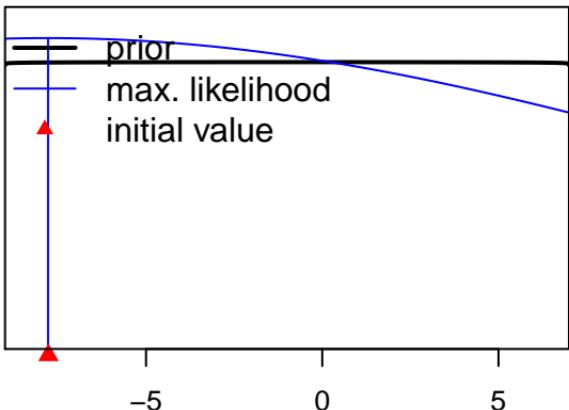
SizeSpline_Val_3_F15-DEL_N(15)



Parameter value

SizeSpline_Val_6_F15-DEL_N(15)

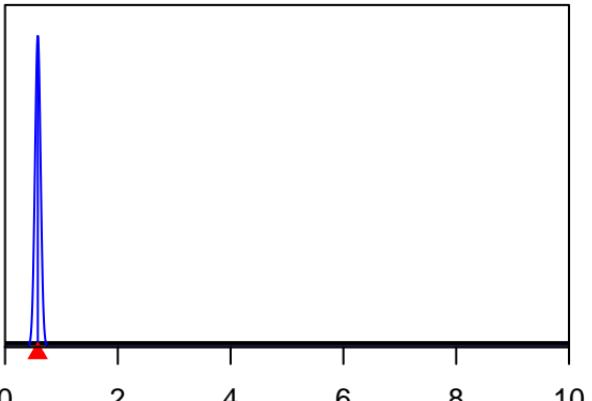
Density



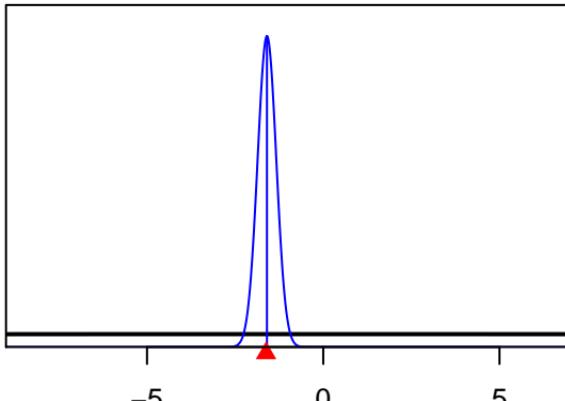
SizeSpline_GradHi_F16-DEL_NE(16)



SizeSpline_GradLo_F16-DEL_NE(16)



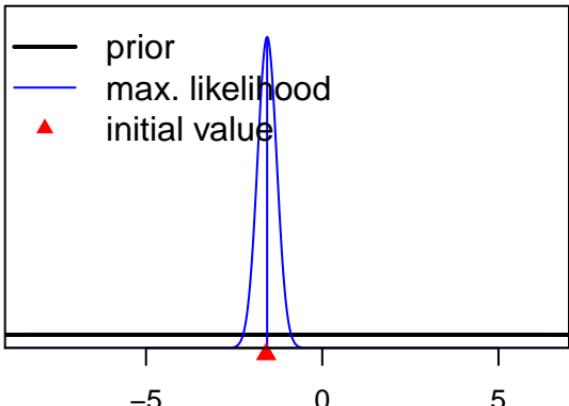
SizeSpline_Val_2_F16-DEL_NE(16)



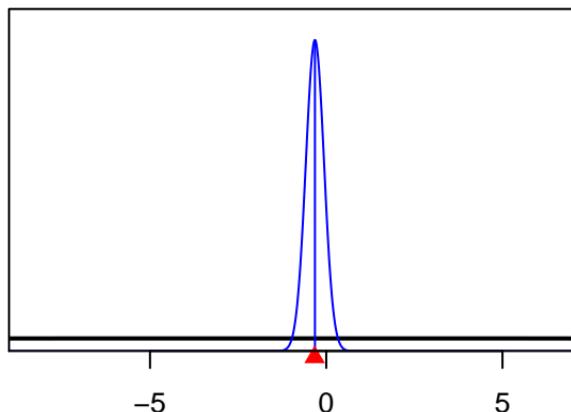
Parameter value

SizeSpline_Val_3_F16-DEL_NE(16)

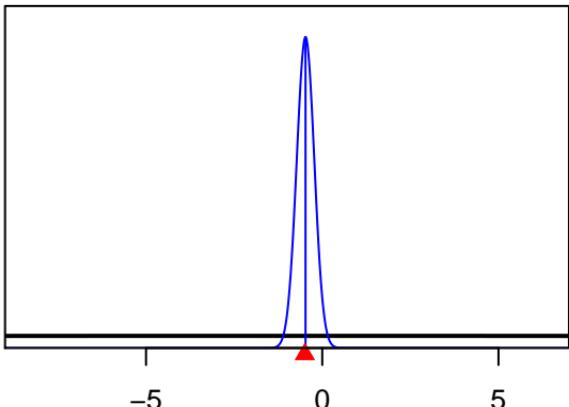
Density



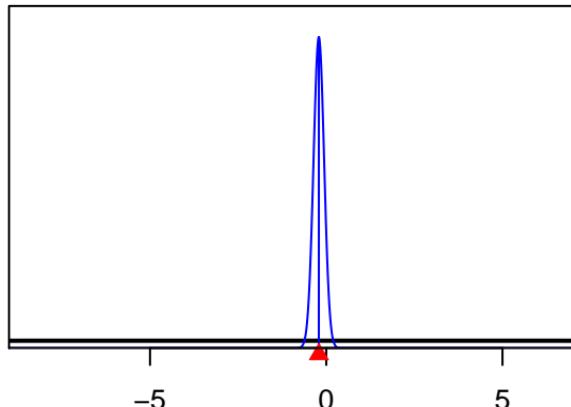
SizeSpline_Val_5_F16-DEL_NE(16)



SizeSpline_Val_4_F16-DEL_NE(16)



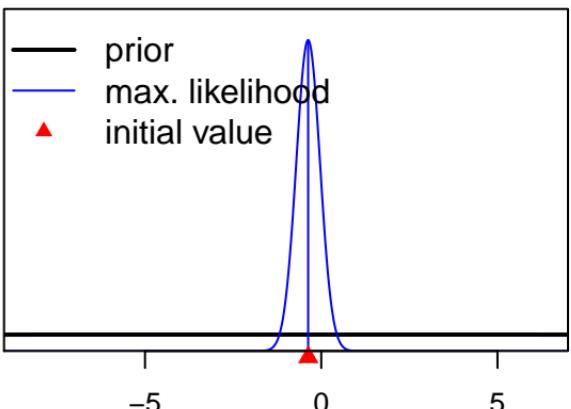
SizeSpline_Val_7_F16-DEL_NE(16)



Parameter value

SizeSpline_Val_8_F16-DEL_NE(16)

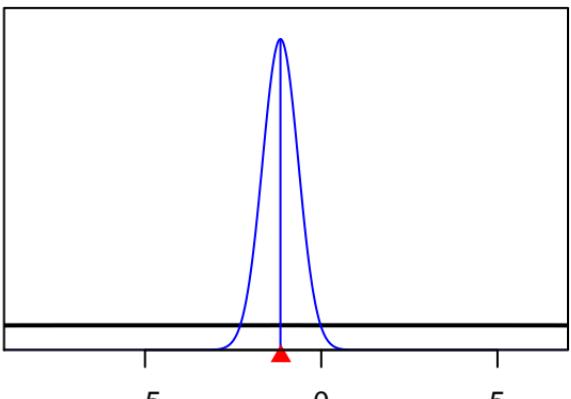
Density



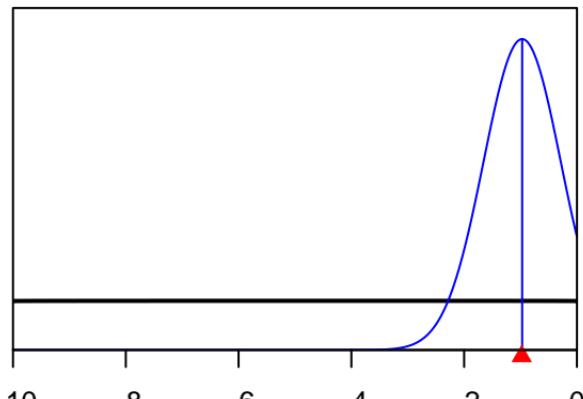
SizeSpline_GradLo_F17-DEL_M(17)



SizeSpline_Val_9_F16-DEL_NE(16)



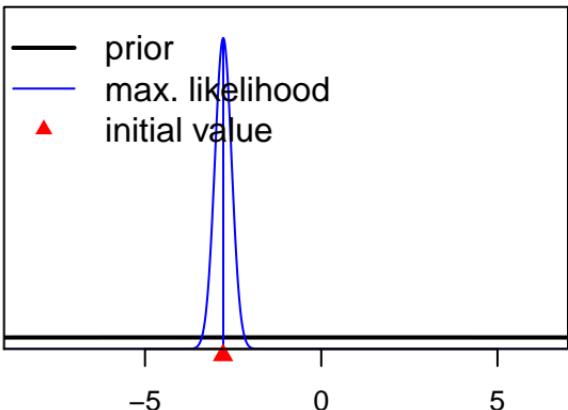
SizeSpline_GradHi_F17-DEL_M(17)



Parameter value

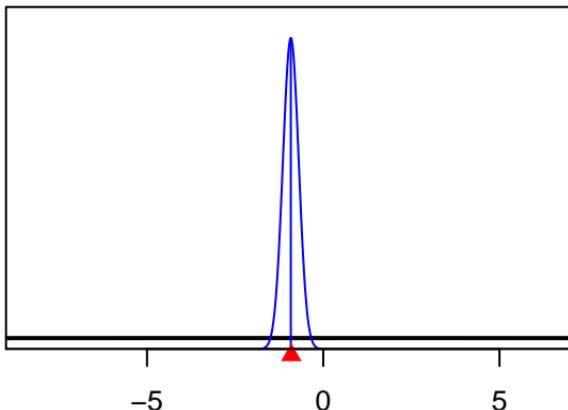
SizeSpline_Val_2_F17-DEL_M(17)

Density



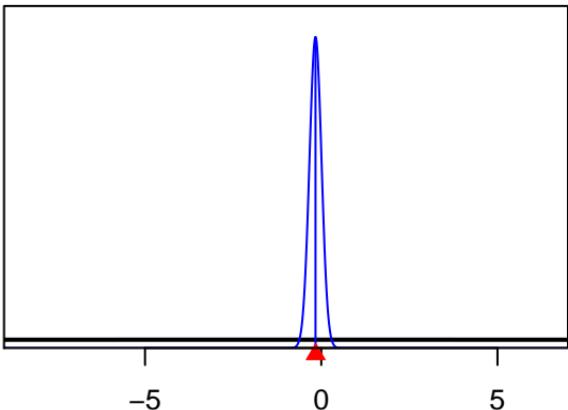
SizeSpline_Val_5_F17-DEL_M(17)

Density

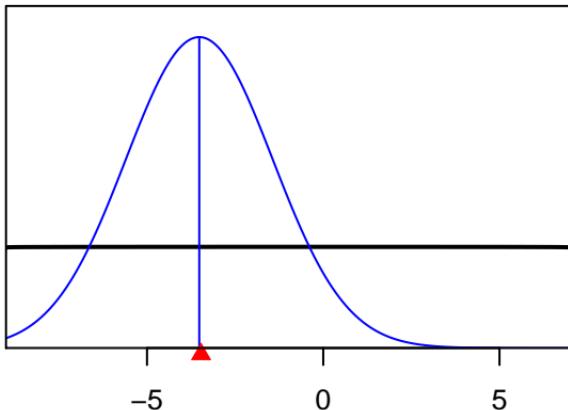


SizeSpline_Val_4_F17-DEL_M(17)

Parameter value

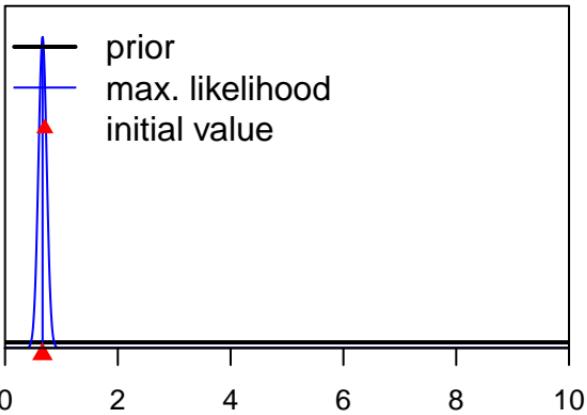


SizeSpline_Val_6_F17-DEL_M(17)

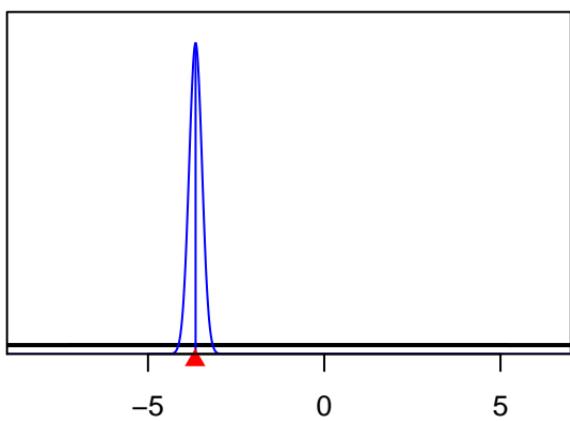


SizeSpline_GradLo_F18-DEL_C(18)

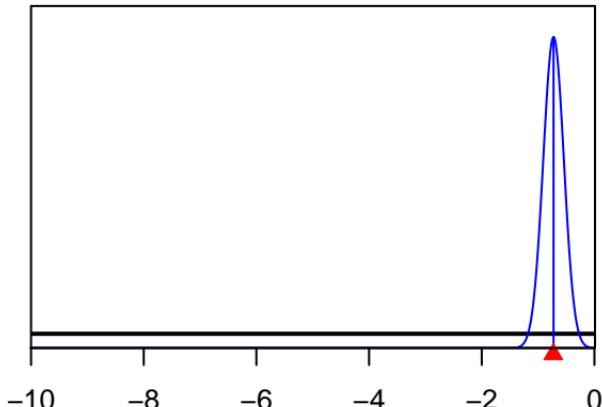
Density



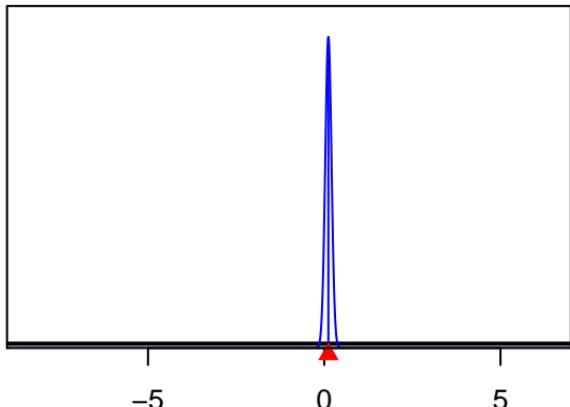
SizeSpline_Val_2_F18-DEL_C(18)



SizeSpline_GradHi_F18-DEL_C(18)



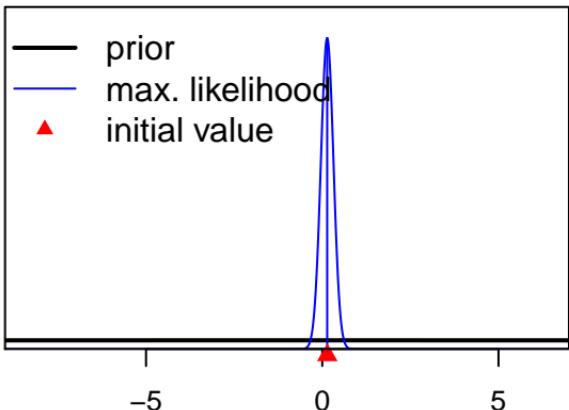
SizeSpline_Val_4_F18-DEL_C(18)



Parameter value

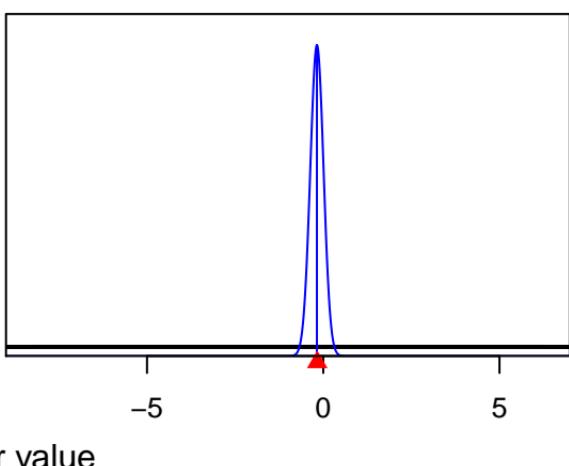
SizeSpline_Val_5_F18-DEL_C(18)

Density



SizeSpline_Val_7_F18-DEL_C(18)

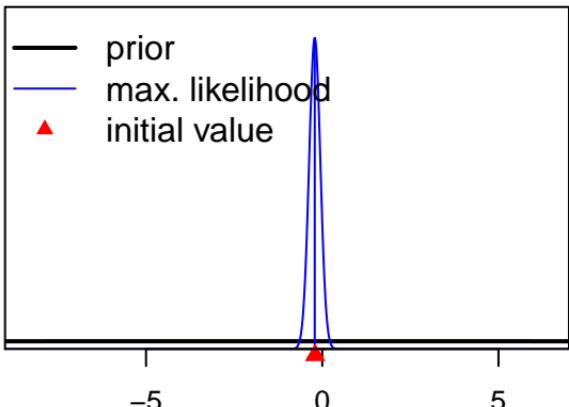
SizeSpline_Val_6_F18-DEL_C(18)



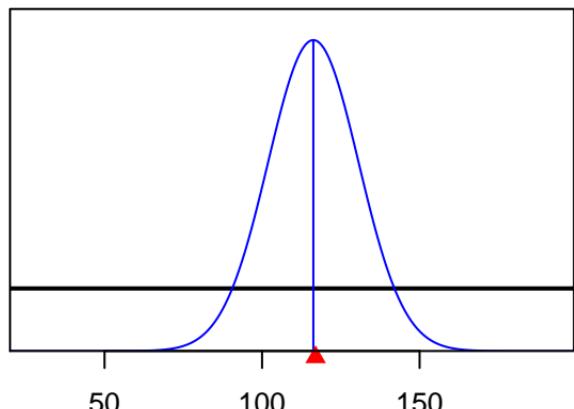
Parameter value

SizeSpline_Val_9_F18-DEL_C(18)

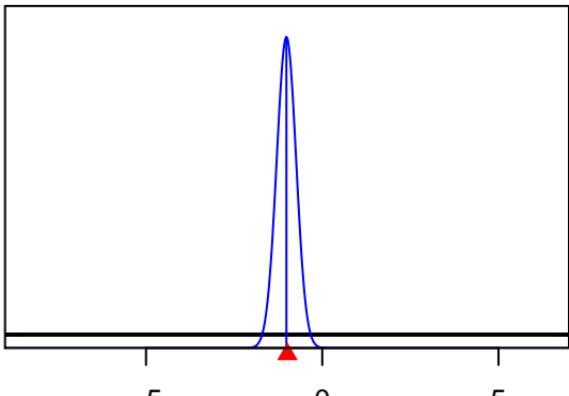
Density



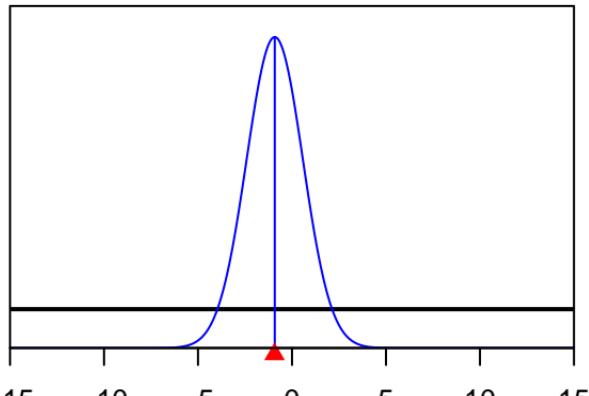
Size_DblN_peak_F19-DEL_P(19)



SizeSpline_Val_10_F18-DEL_C(18)



Size_DblN_top_logit_F19-DEL_P(19)

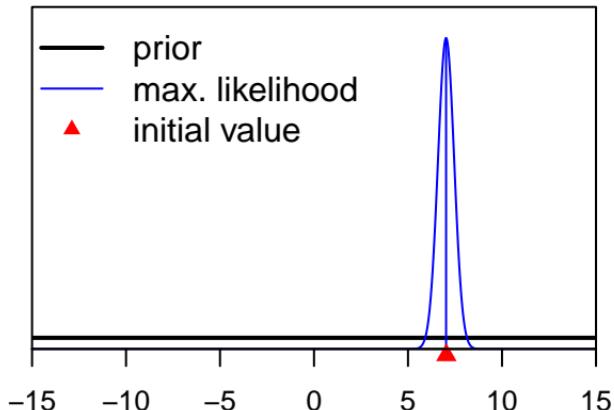


Parameter value

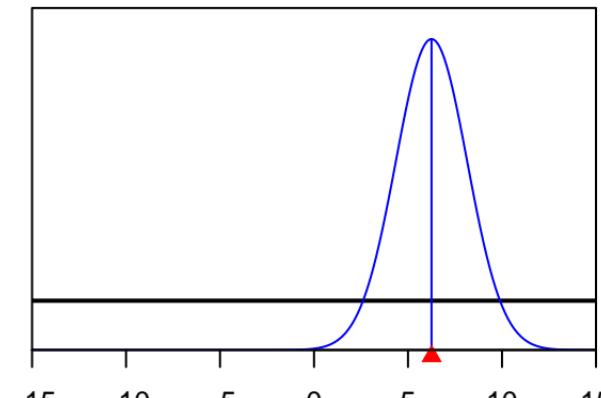
Size_DbIN_ascend_se_F19-DEL_P(19)

SizeSpline_GradLo_F22-BB(22)

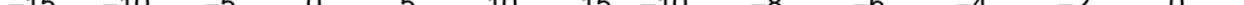
Density



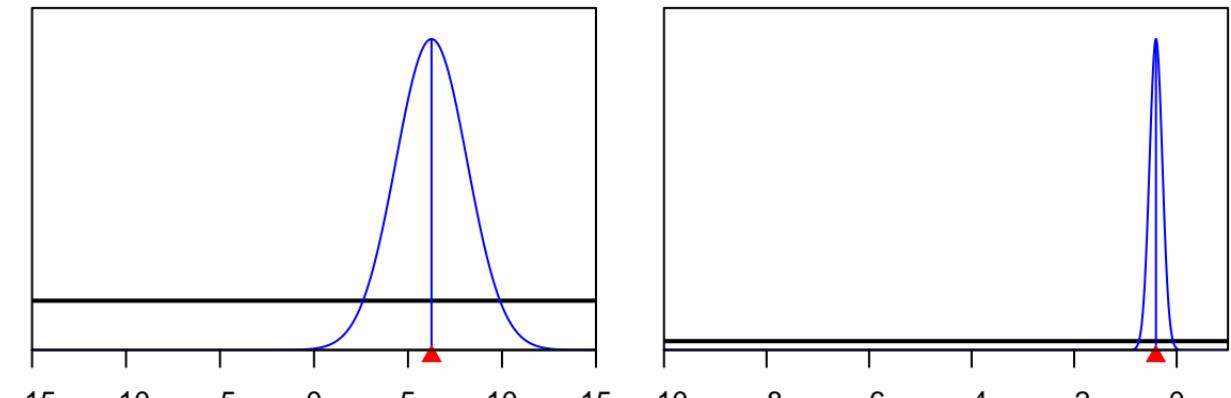
Size_DbIN_descend_se_F19-DEL_P(19)



Parameter value



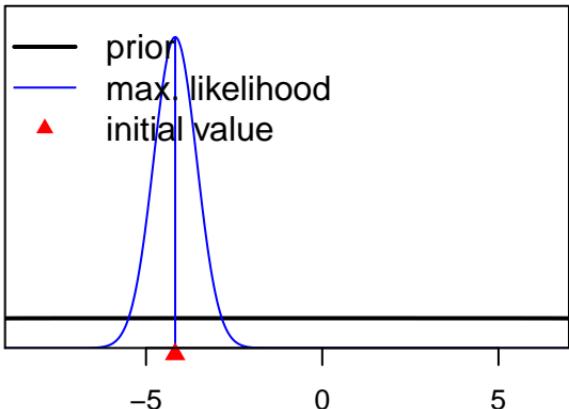
SizeSpline_GradHi_F22-BB(22)



SizeSpline_Val_2_F22-BB(22)

SizeSpline_Val_5_F22-BB(22)

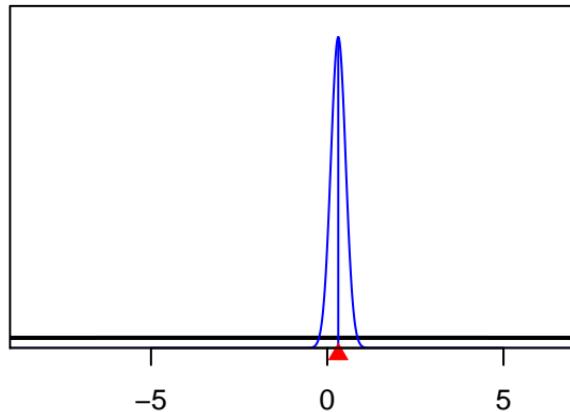
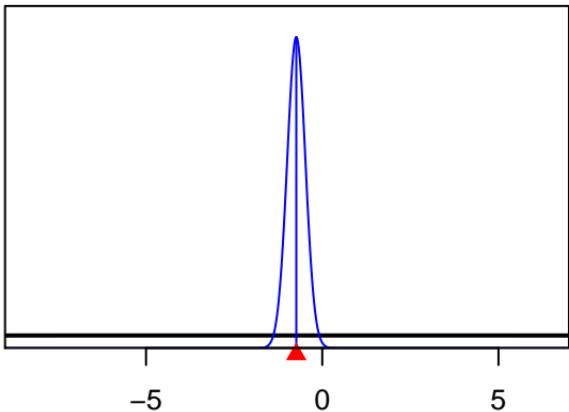
Density



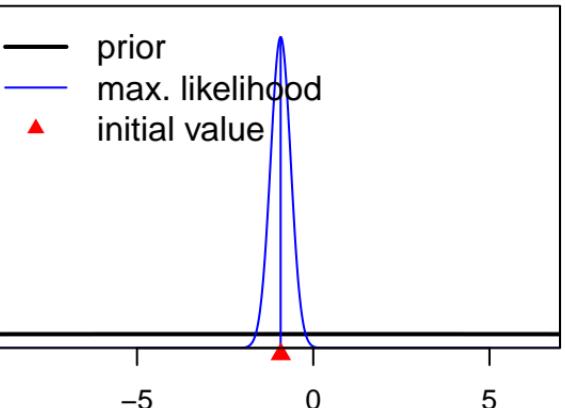
SizeSpline_Val_3_F22-BB(22)

SizeSpline_Val_6_F22-BB(22)

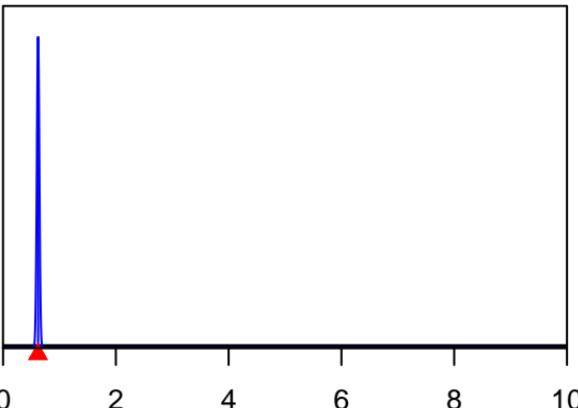
Parameter value



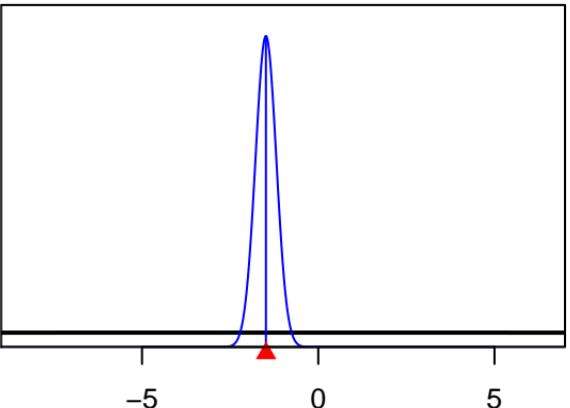
SizeSpline_Val_7_F22-BB(22)



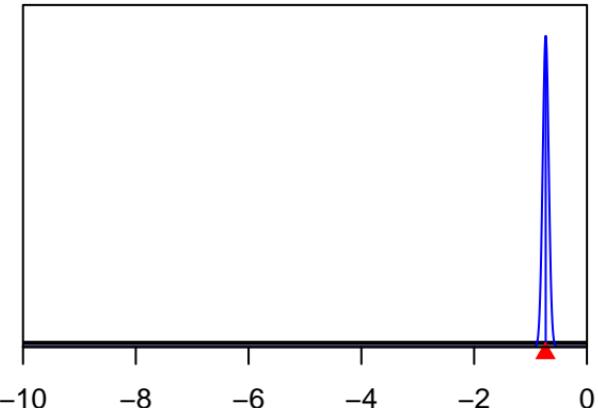
SizeSpline_GradLo_S1-PS_DEL_VAST(41)



SizeSpline_Val_8_F22-BB(22)

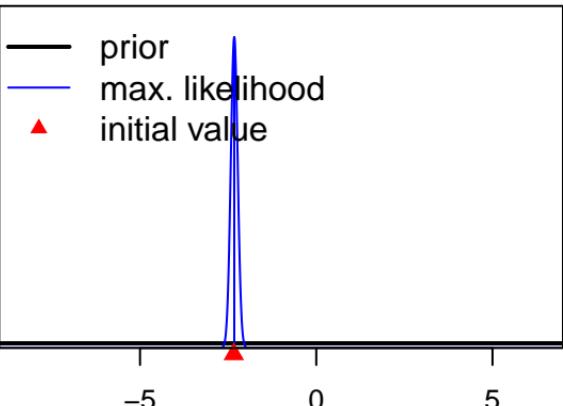


SizeSpline_GradHi_S1-PS_DEL_VAST(41)

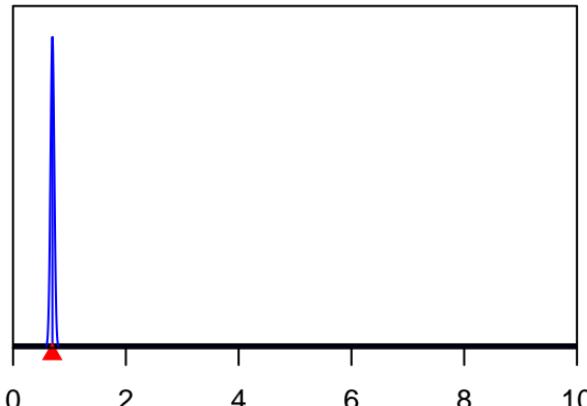


Parameter value

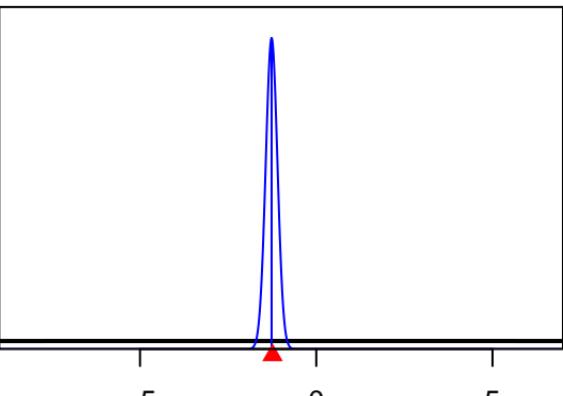
SizeSpline_Val_2_S1-PS_DEL_VAST(41)



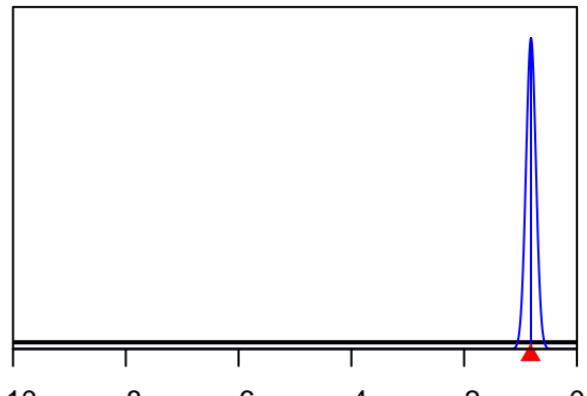
SizeSpline_GradLo_S4-PS_late_VAST(44)



SizeSpline_Val_4_S1-PS_DEL_VAST(41)

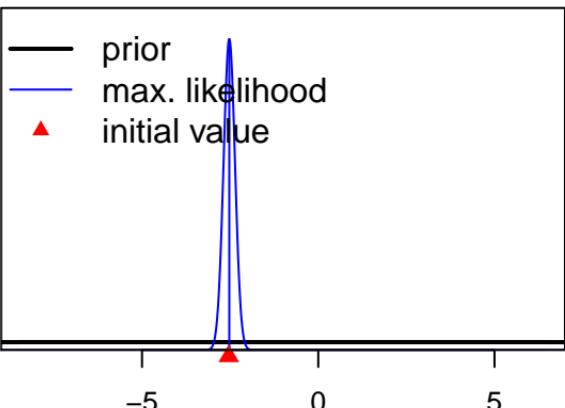


SizeSpline_GradHi_S4-PS_late_VAST(44)

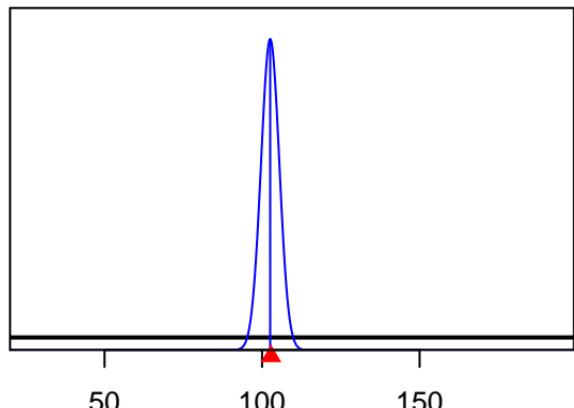


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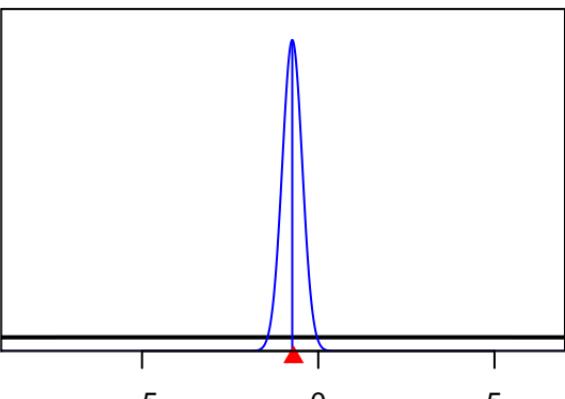
SizeSpline_Val_2_S4-PS_late_VAST(44)



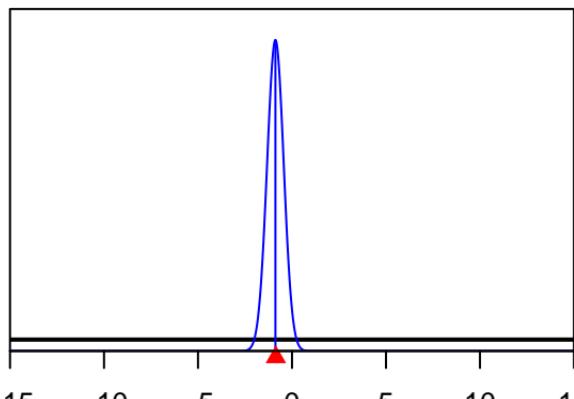
Size_DbIN_peak_F19-DEL_P(19)_BLK2repI_37



SizeSpline_Val_4_S4-PS_late_VAST(44)

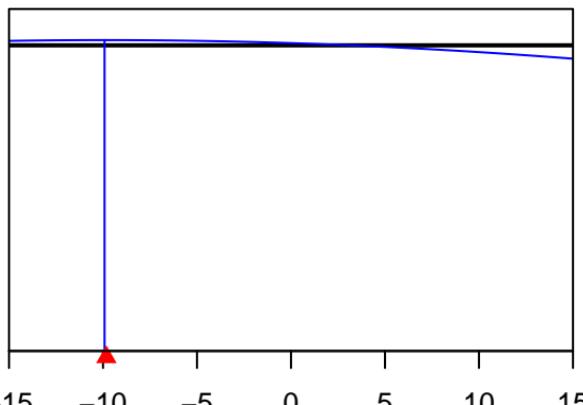
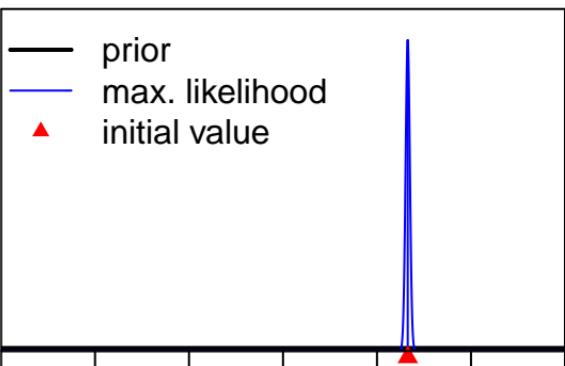


Size_DbIN_top_logit_F19-DEL_P(19)_BLK2repI_37

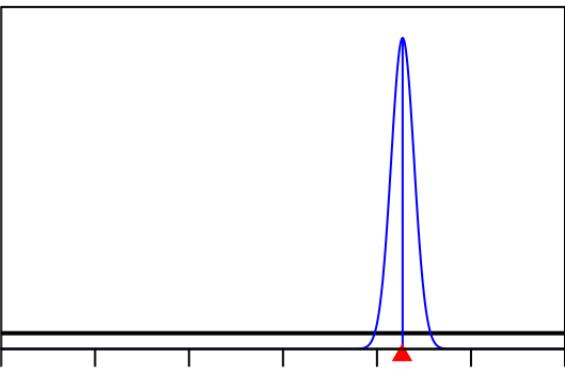


Parameter value

e_DbIN_ascend_se_F19-DEL_P(19)_BLK2replze_DbIN_end_logit_F19-DEL_P(19)_BLK2repl



e_DbIN_descend_se_F19-DEL_P(19)_BLK2repl



Parameter value