

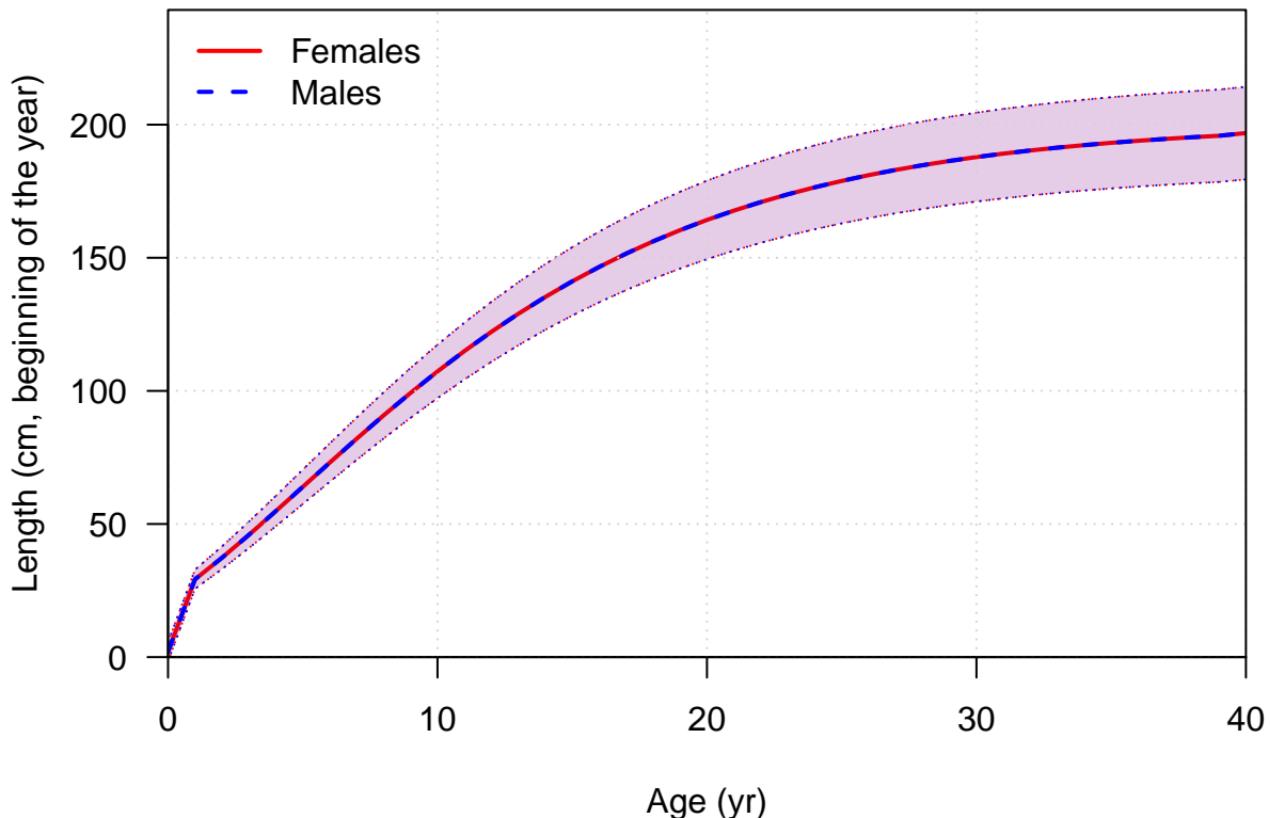
Plots created using the 'r4ss' package in R

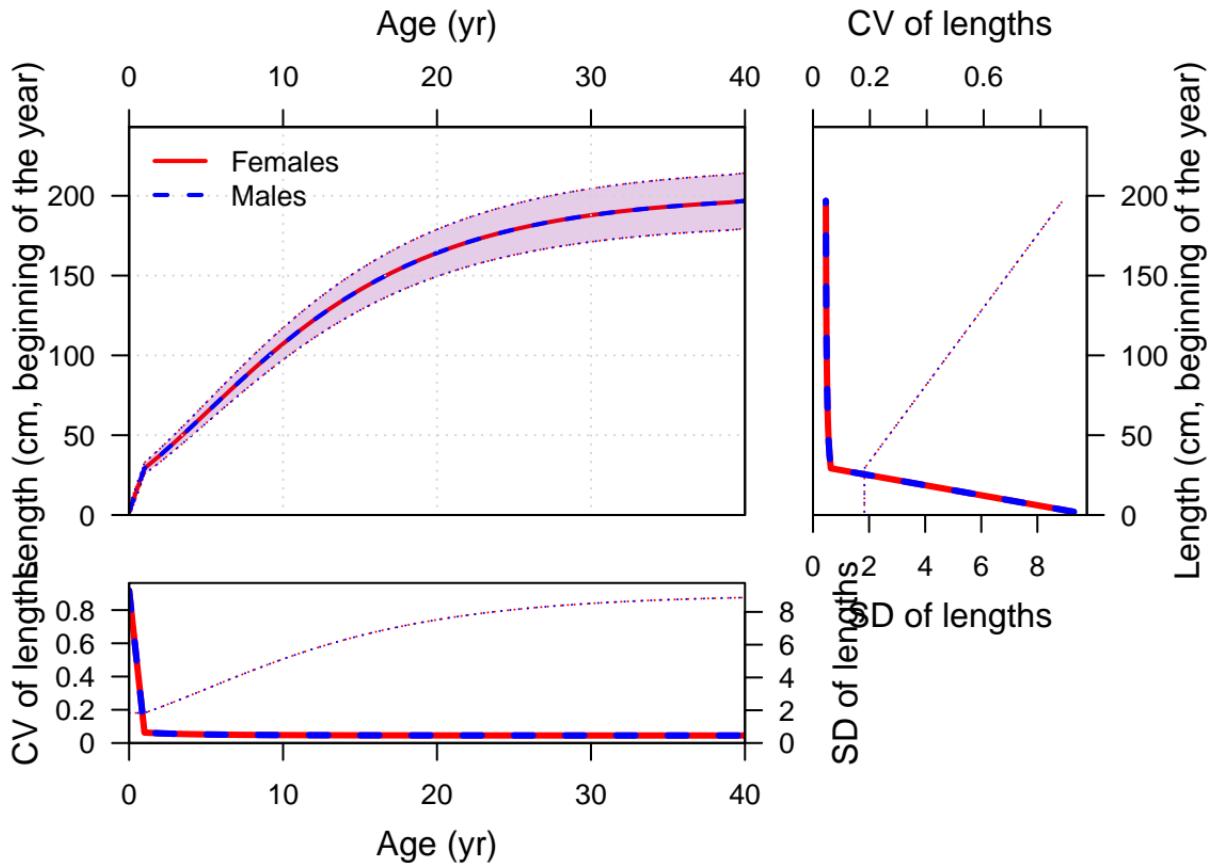
Stock Synthesis version: SS-V3.23b

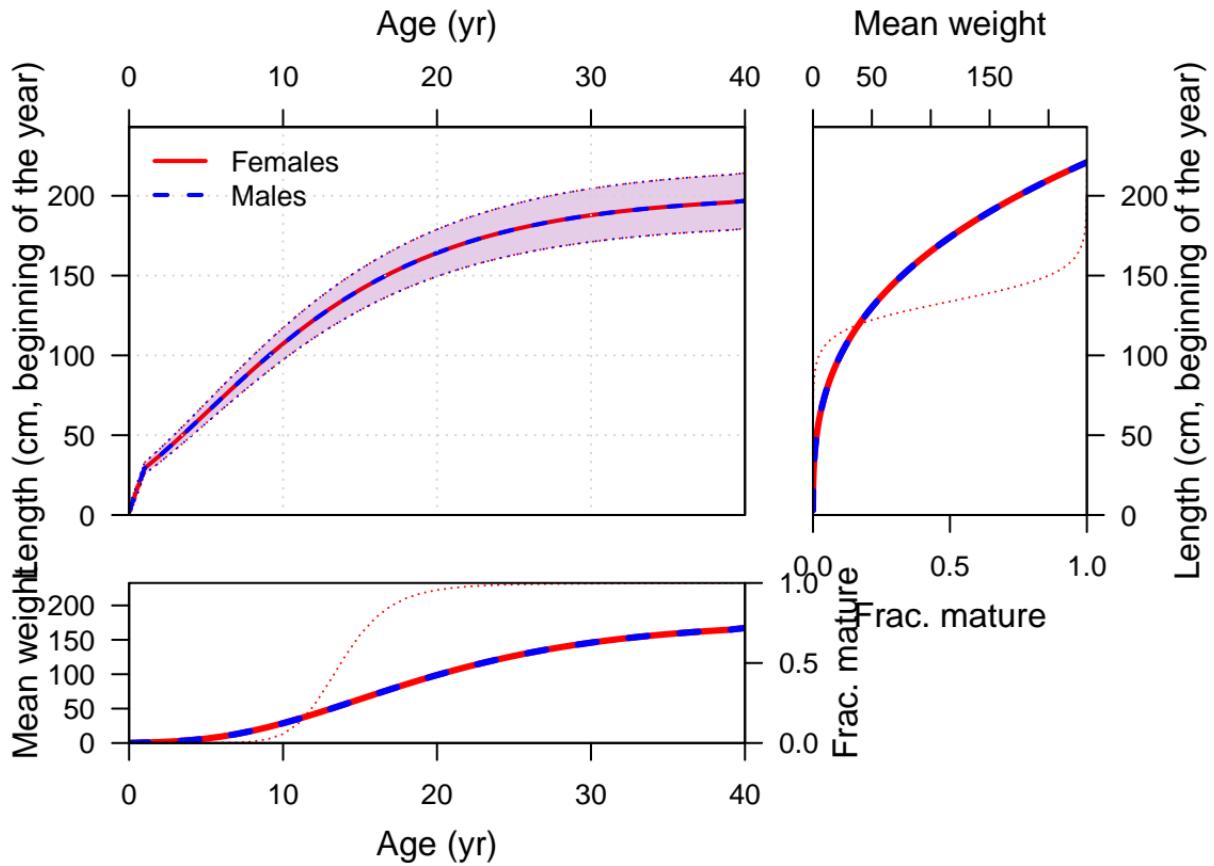
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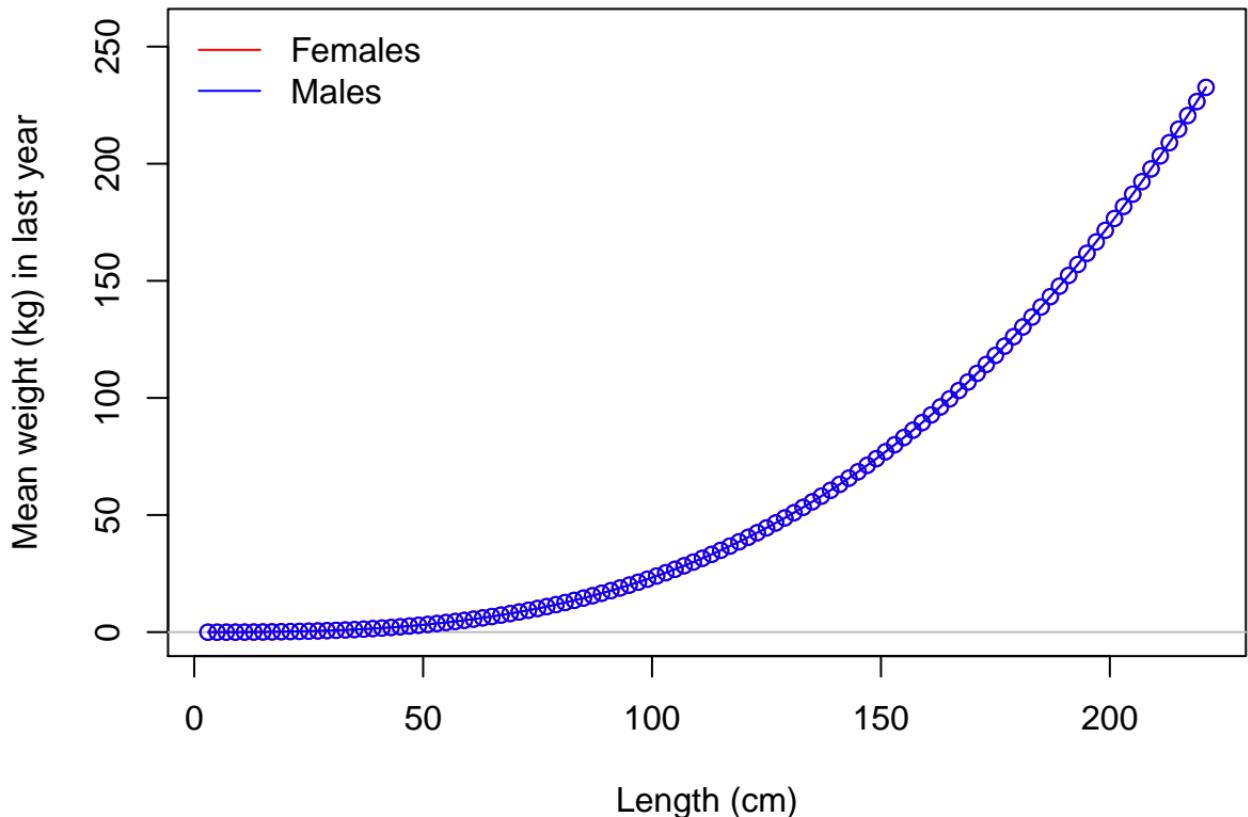
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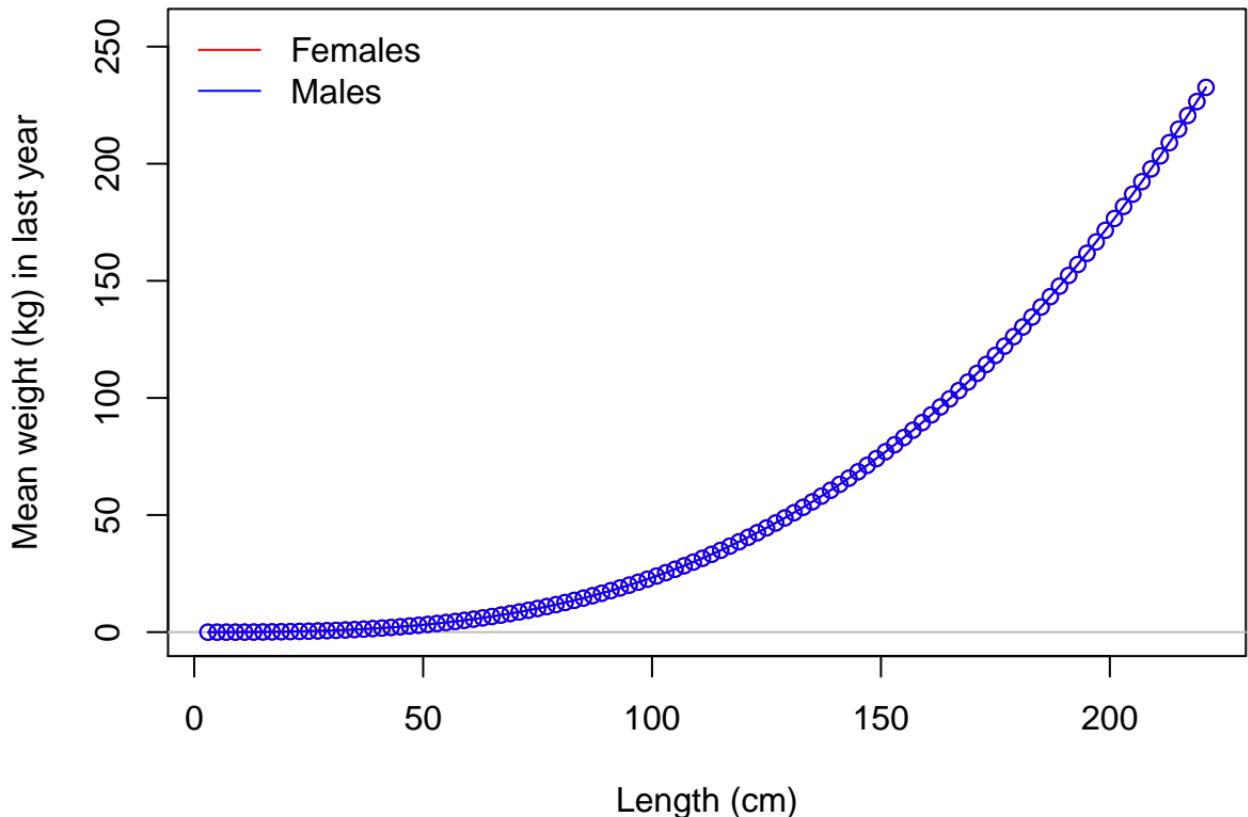
Ending year expected growth (with 95% intervals)

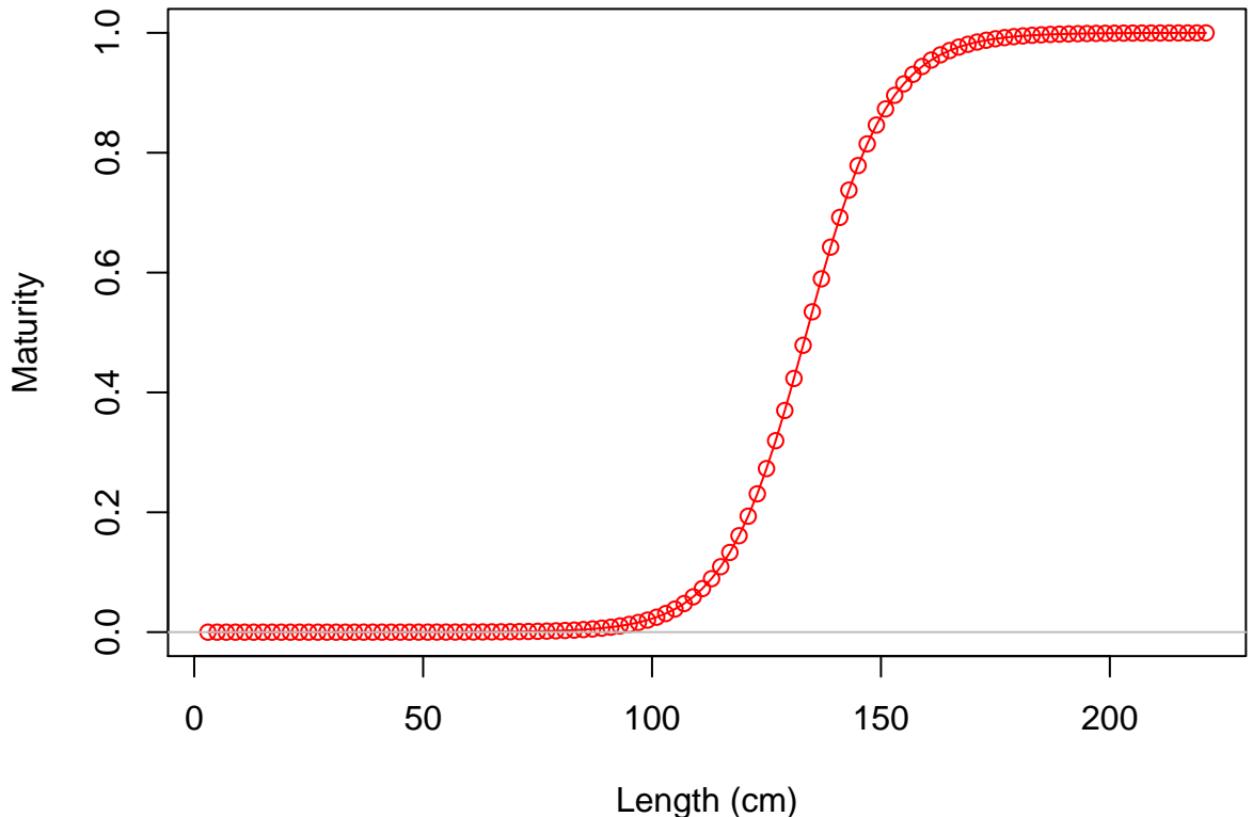


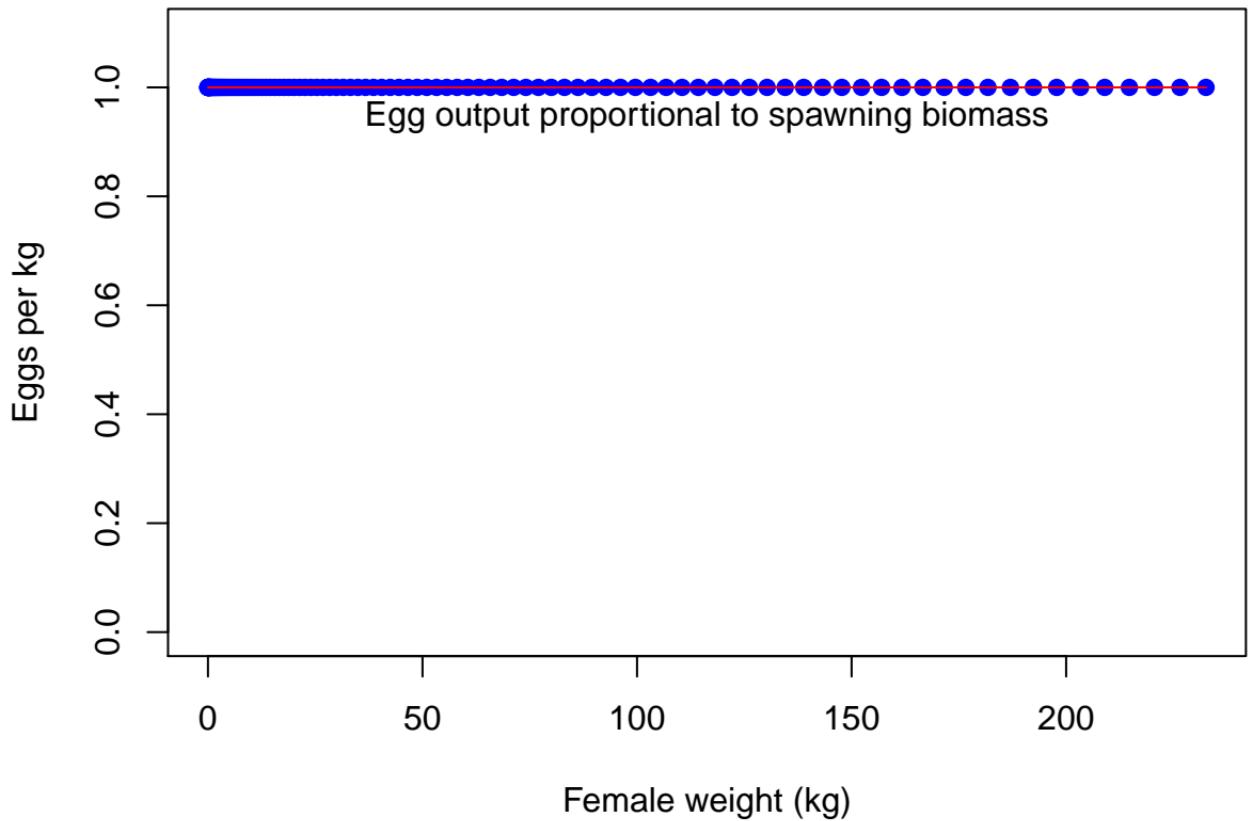


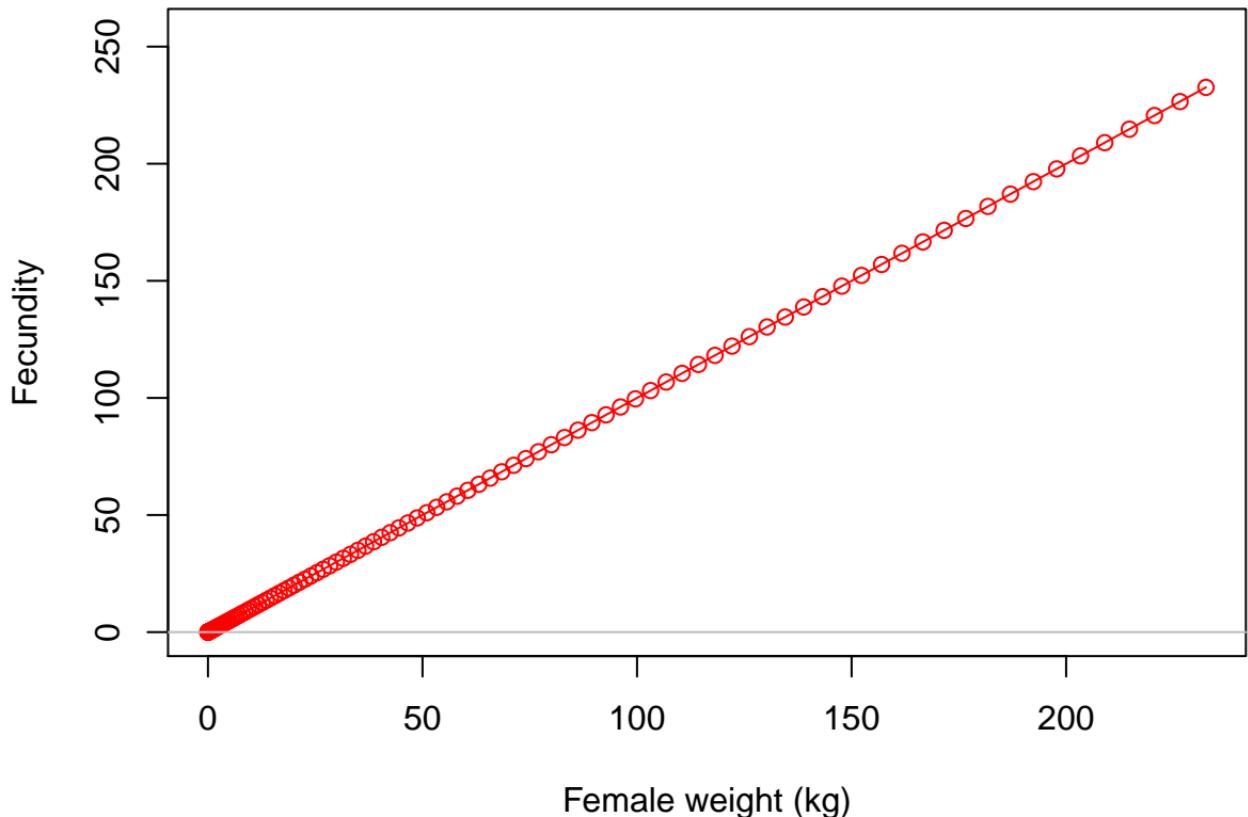


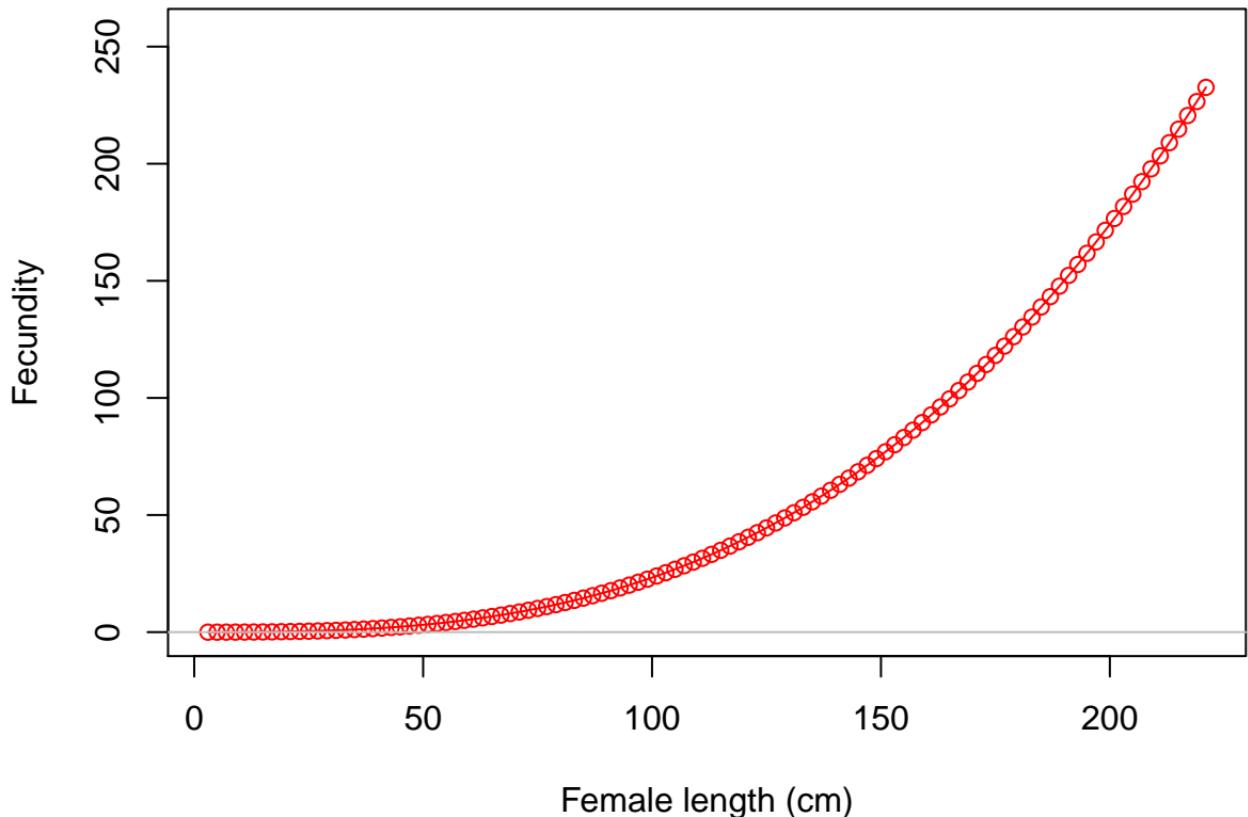


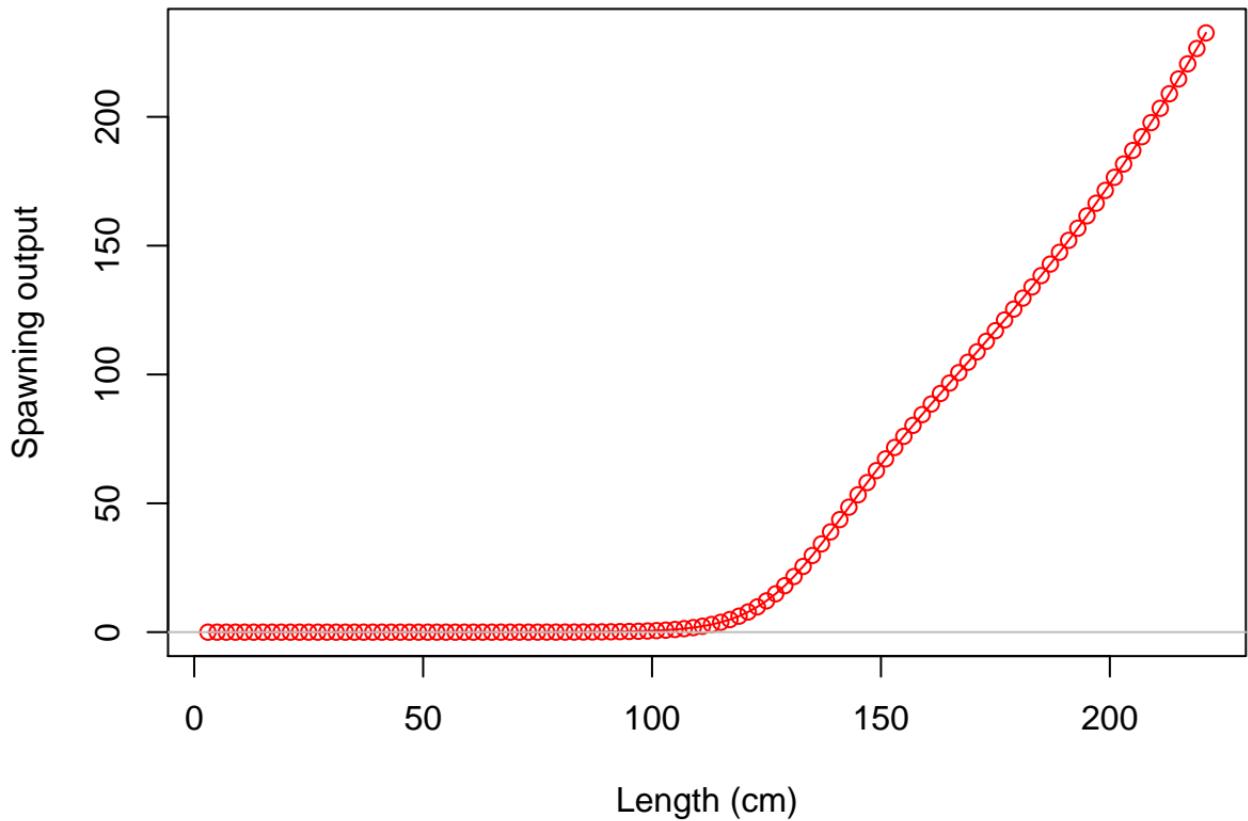




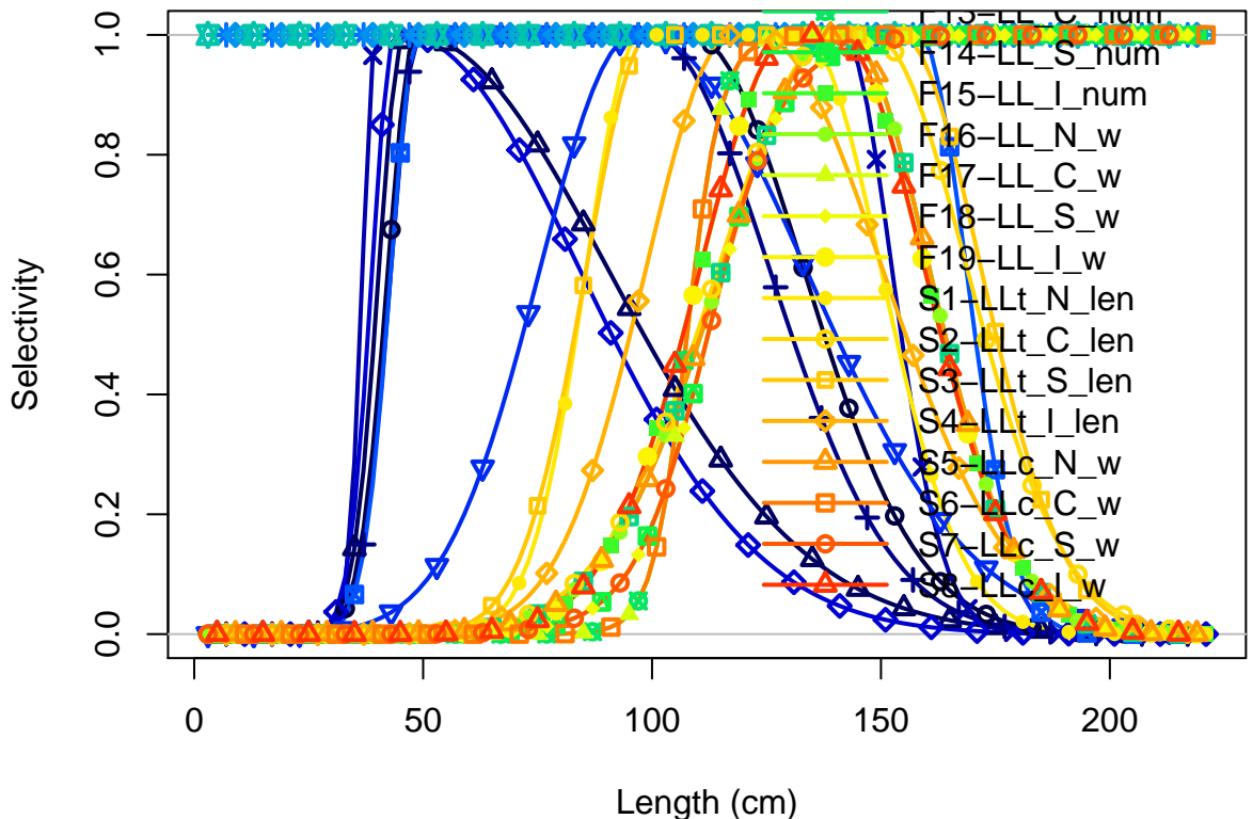




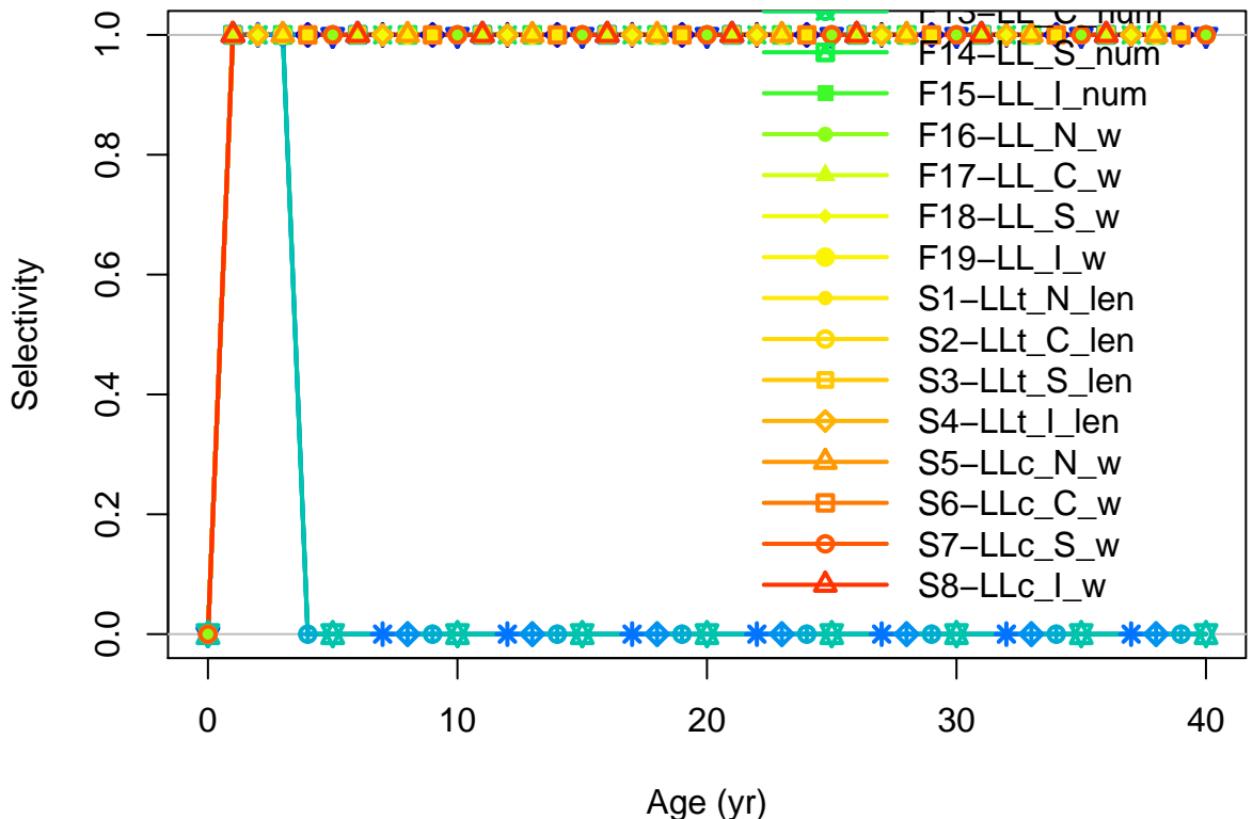




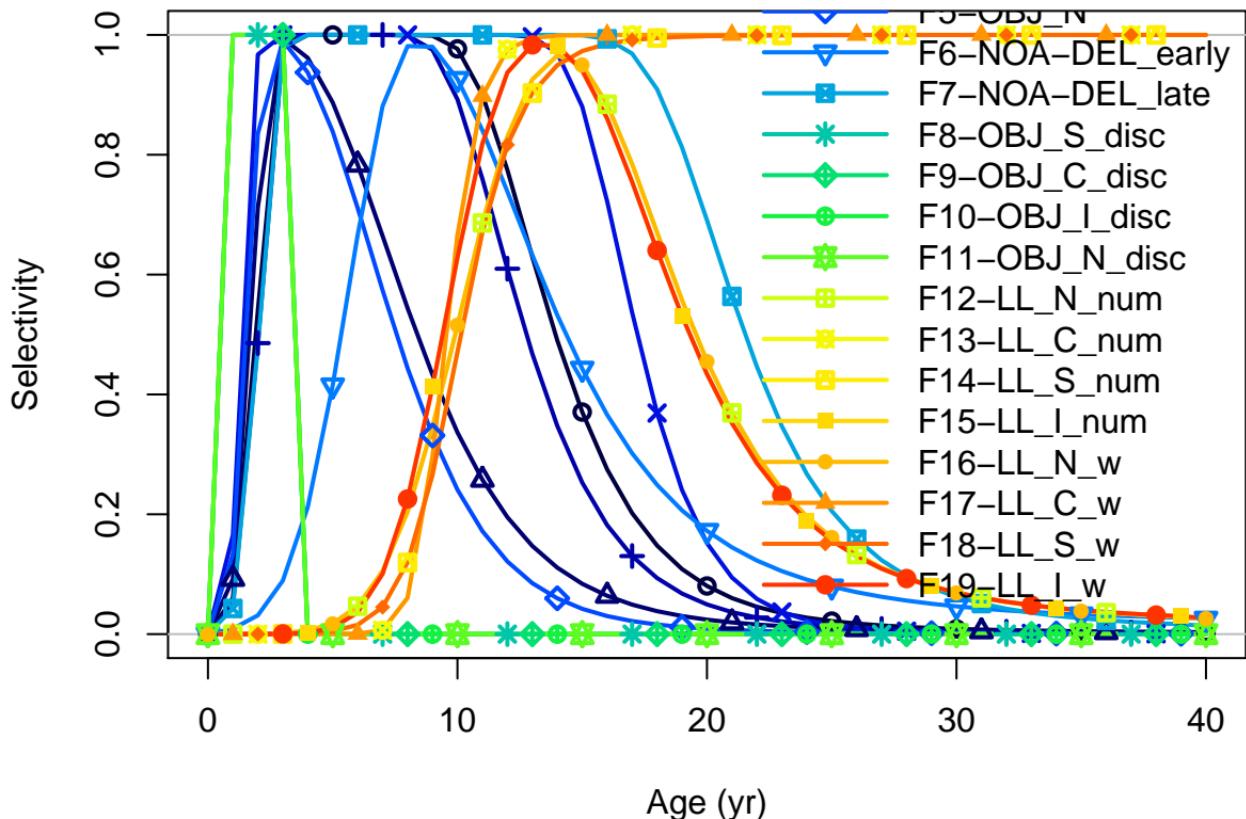
Length-based selectivity by fleet in 168



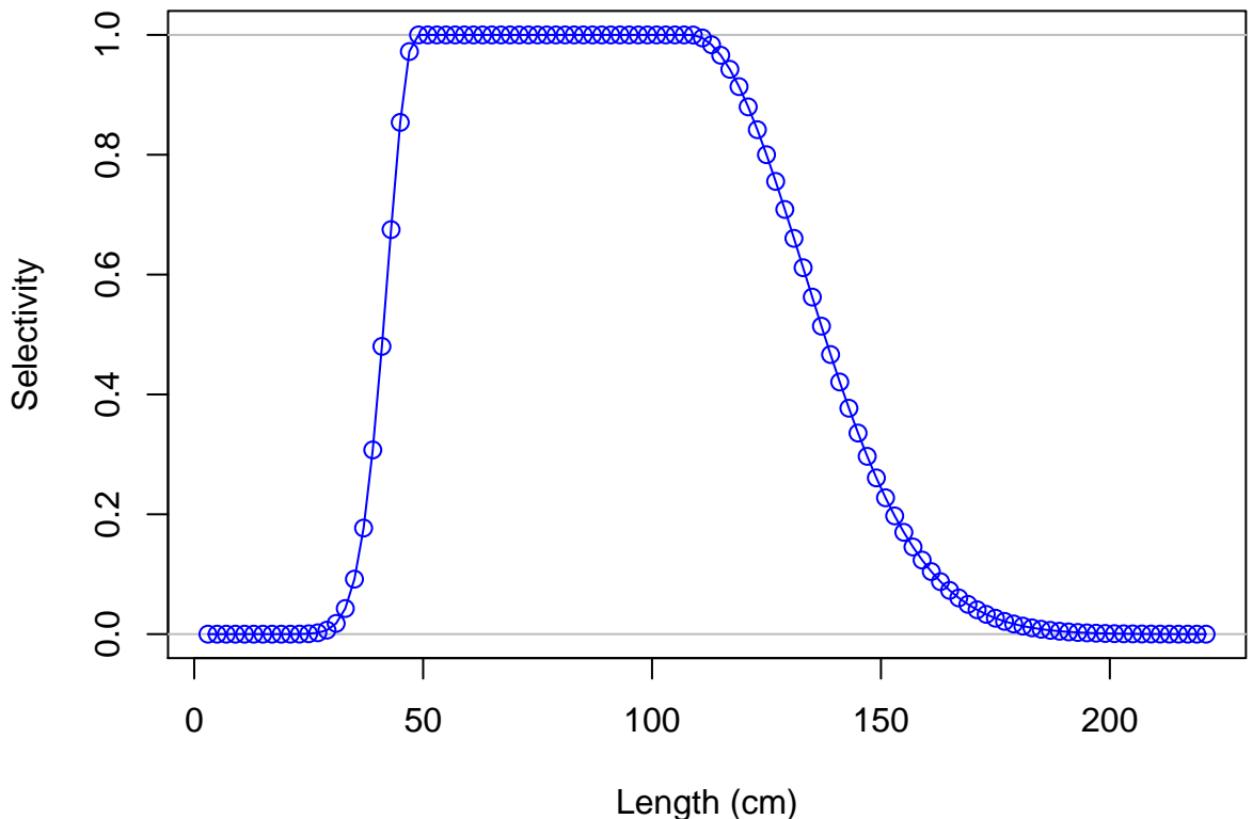
Age-based selectivity by fleet in 168



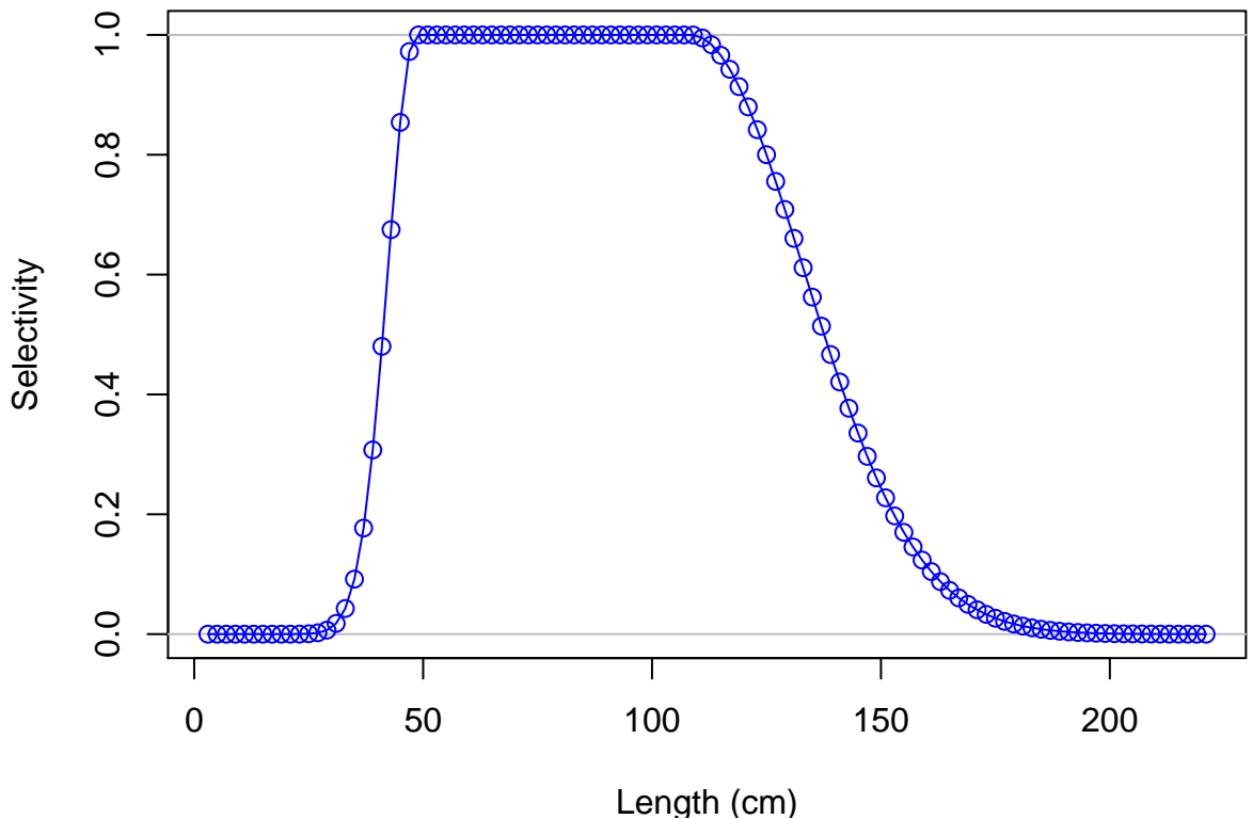
Derived age-based from length-based selectivity by fleet in 168



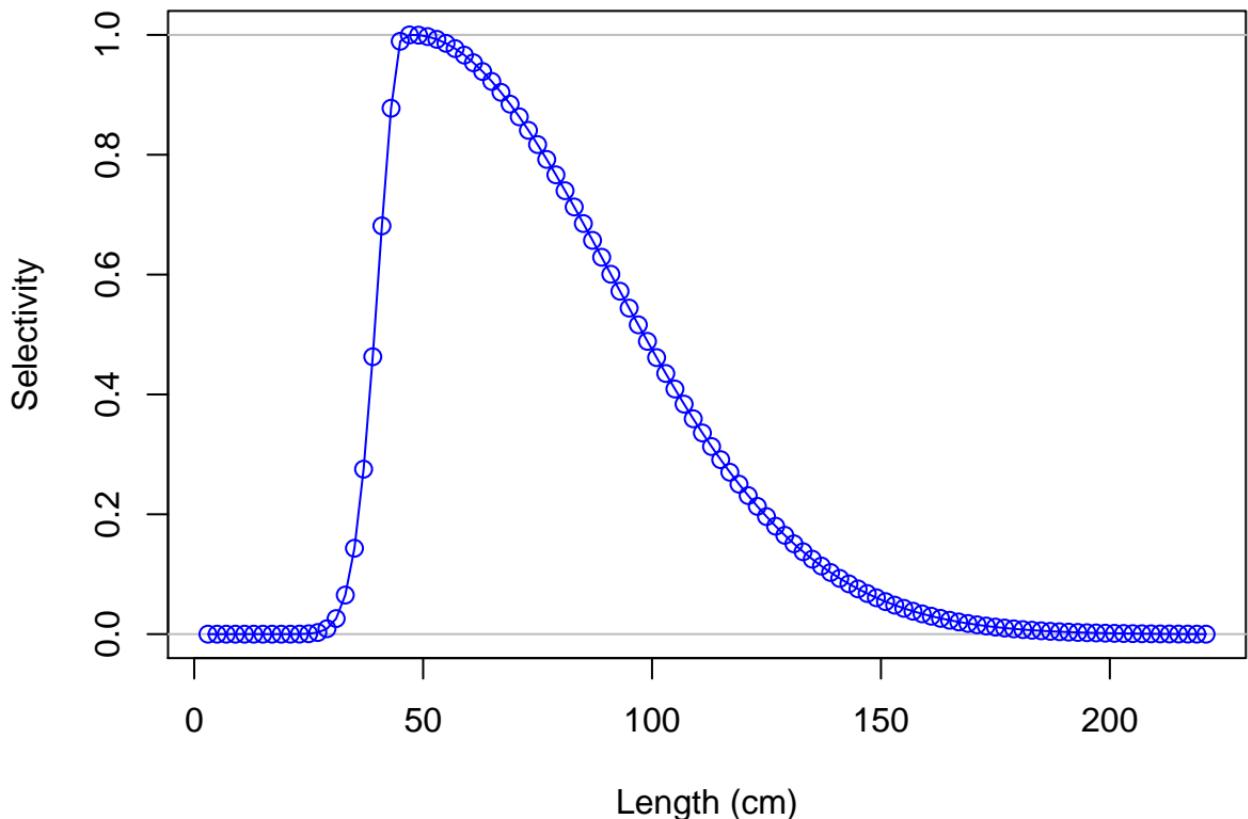
Female ending year selectivity for F1–OBJ_early



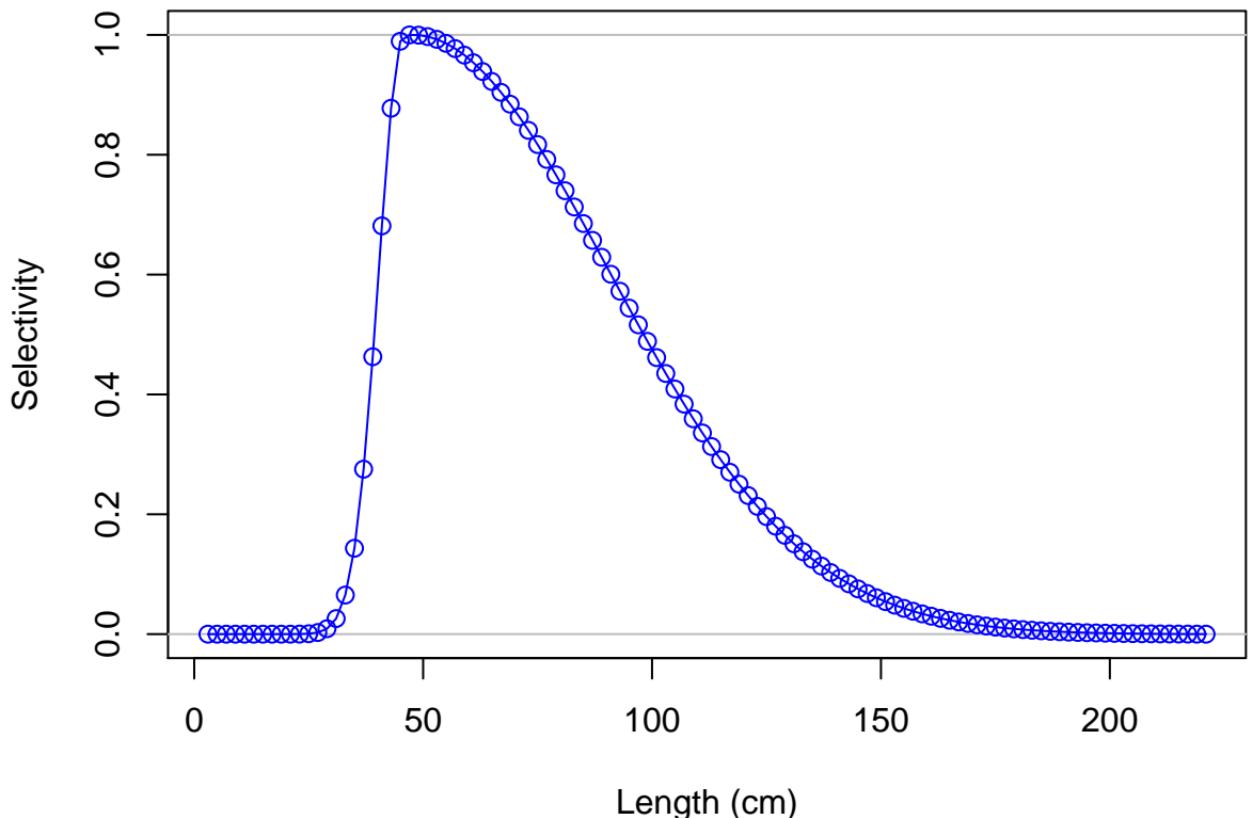
Male ending year selectivity for F1-OBJ_early



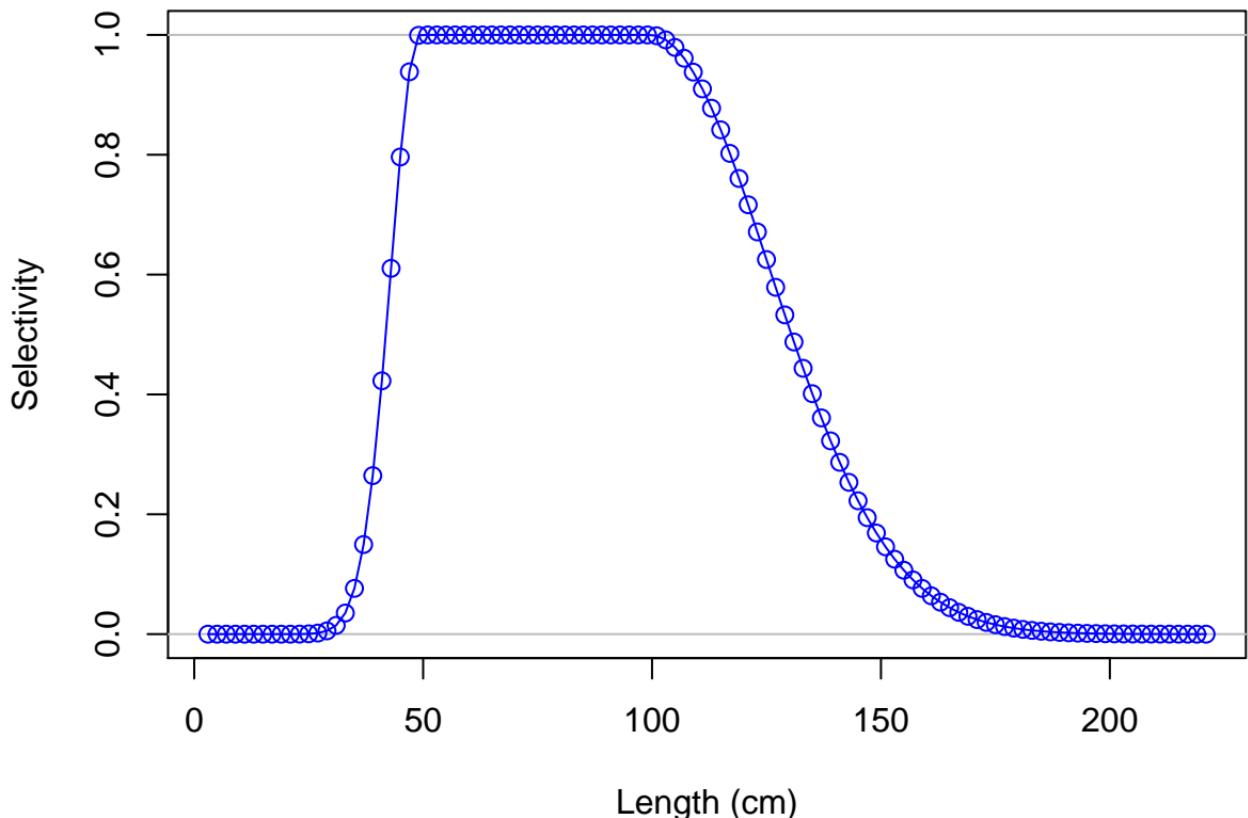
Female ending year selectivity for F2-OBJ_S



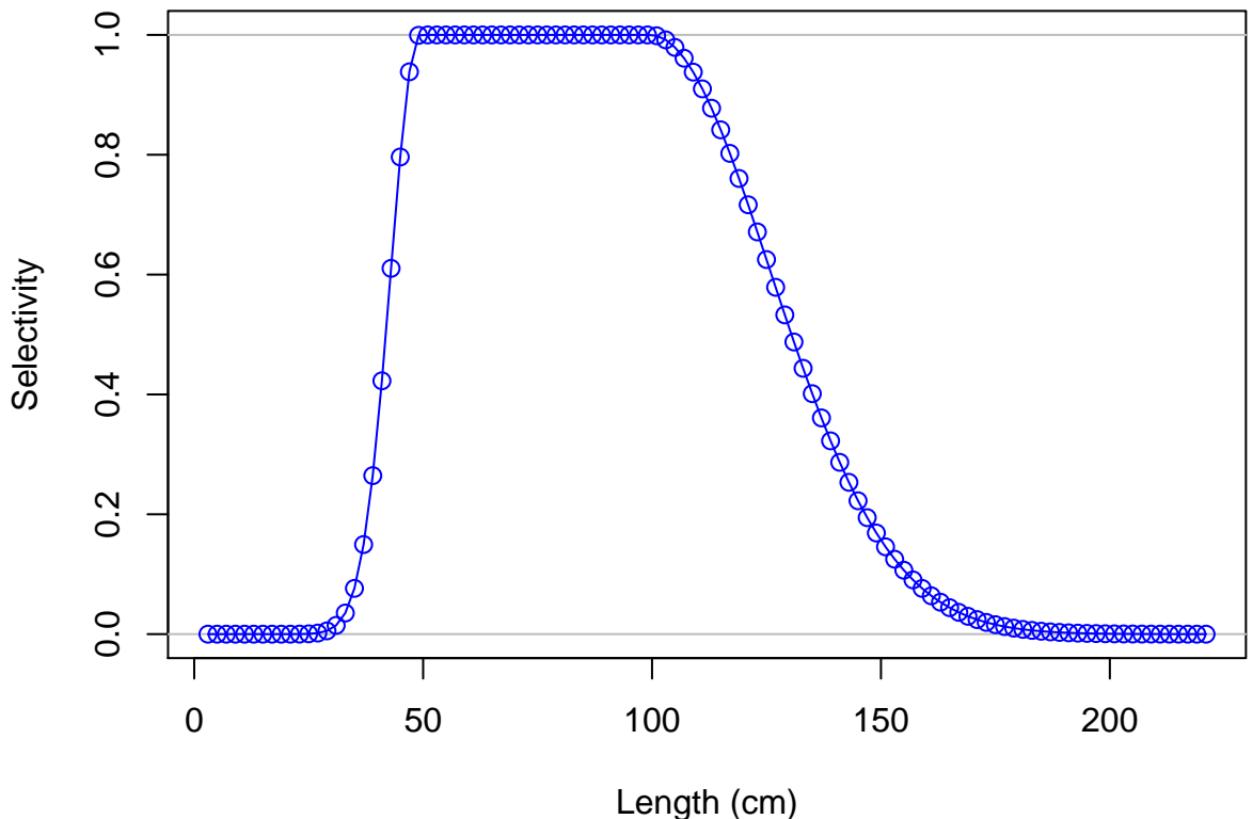
Male ending year selectivity for F2-OBJ_S



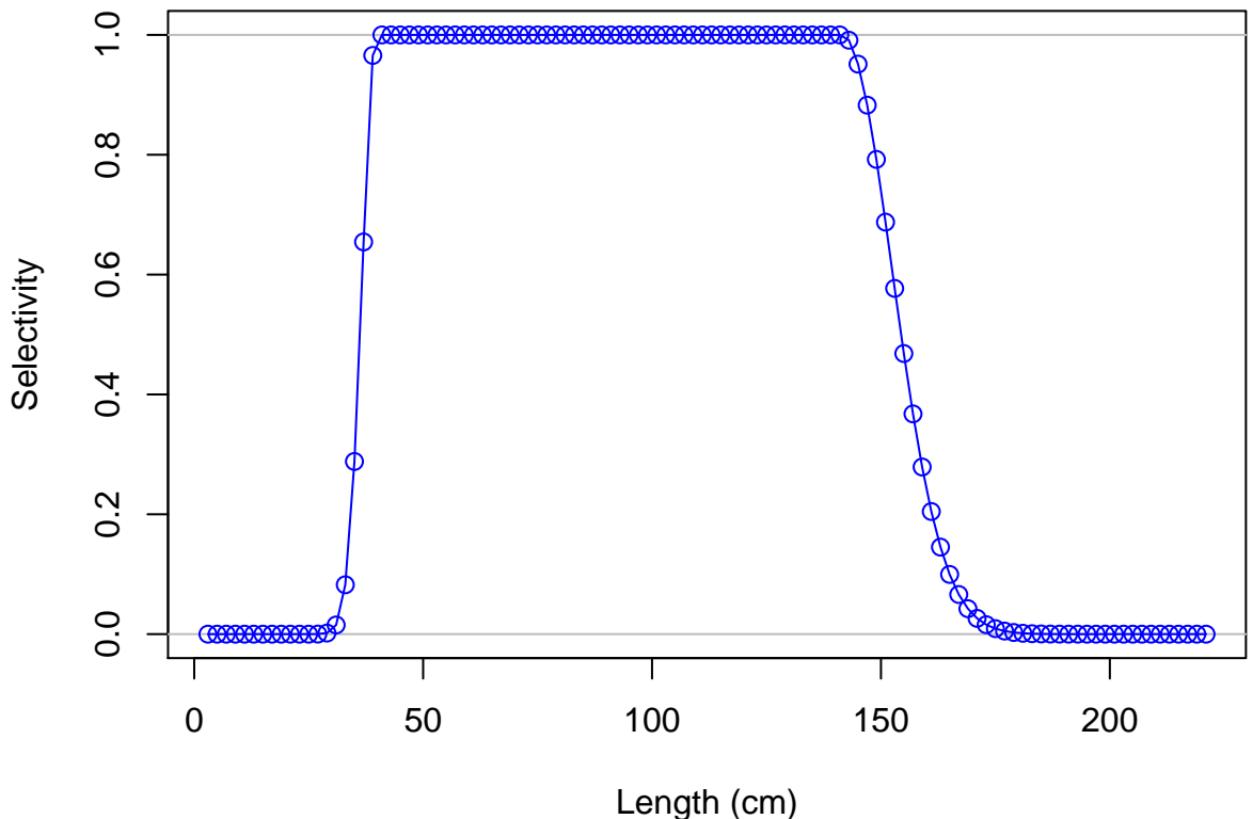
Female ending year selectivity for F3–OBJ_C



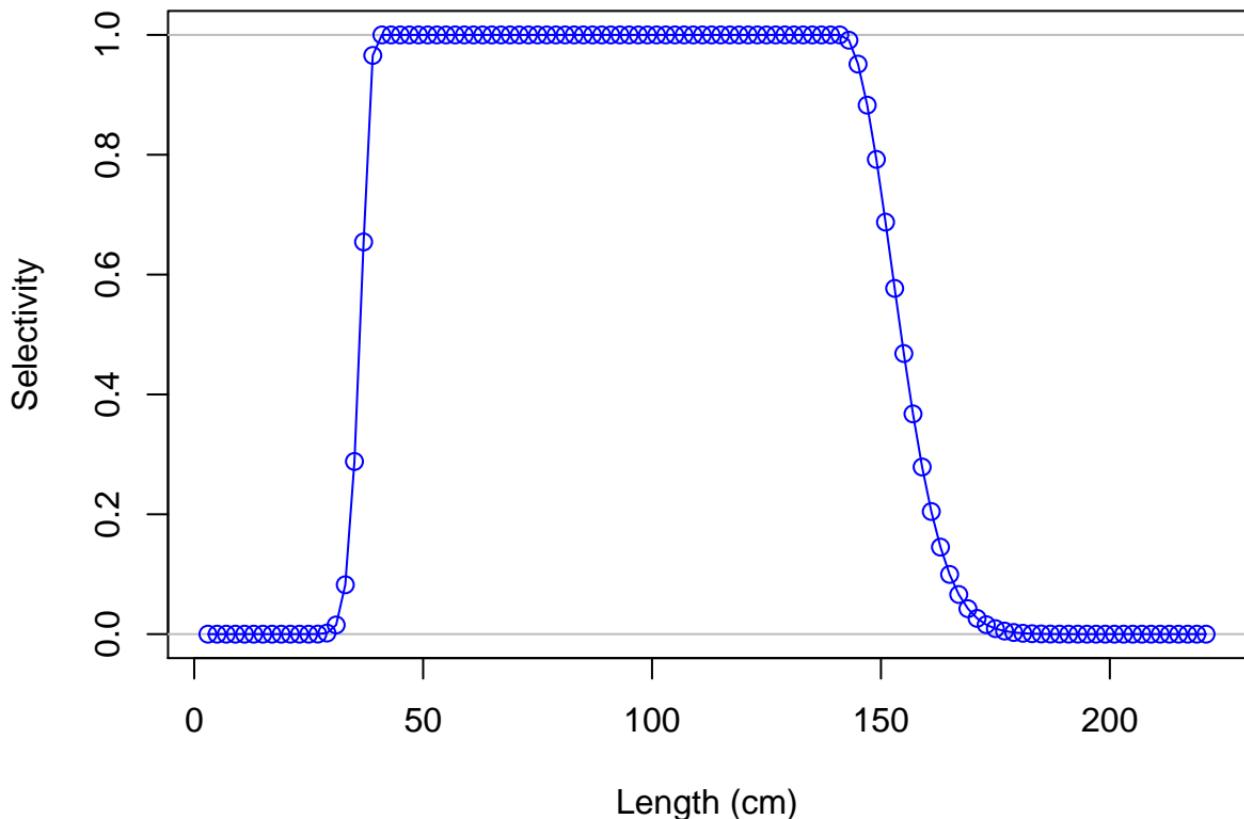
Male ending year selectivity for F3–OBJ_C



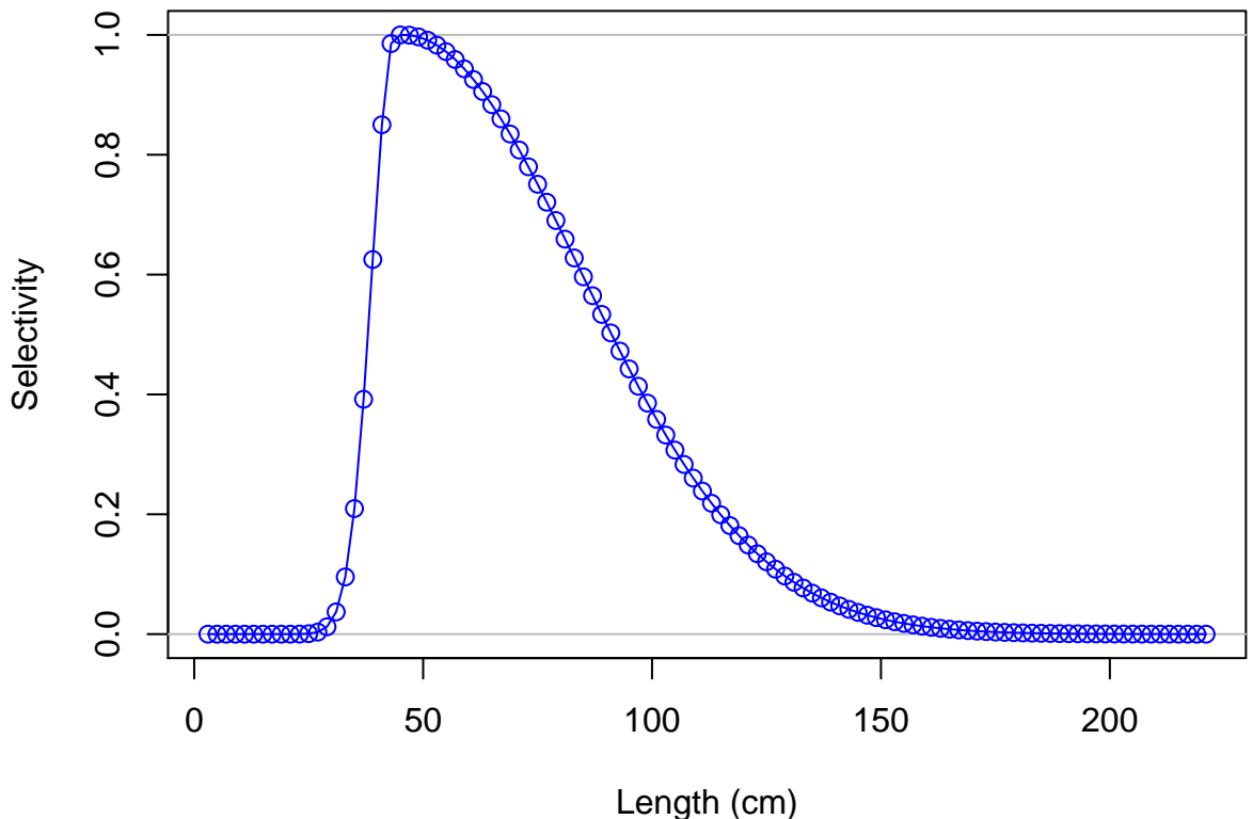
Female ending year selectivity for F4-OBJ_I



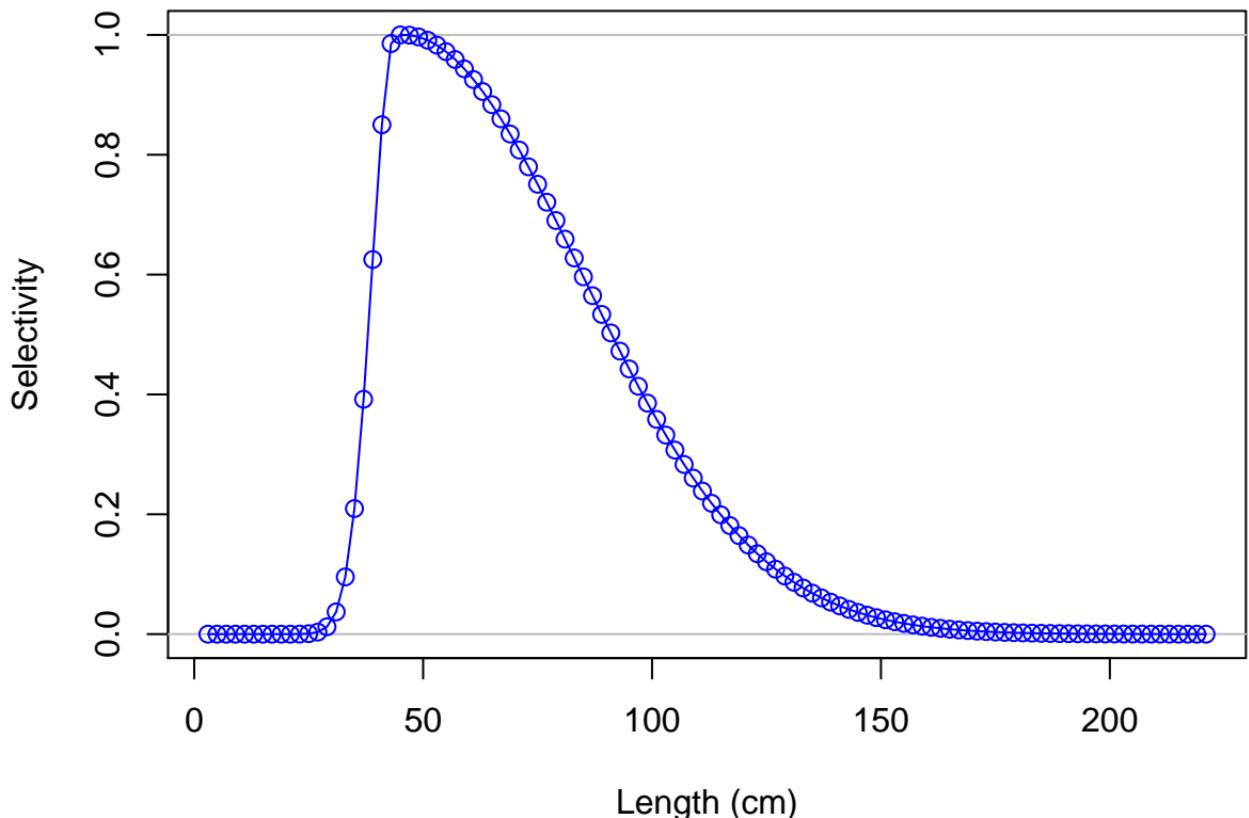
Male ending year selectivity for F4–OBJ_I



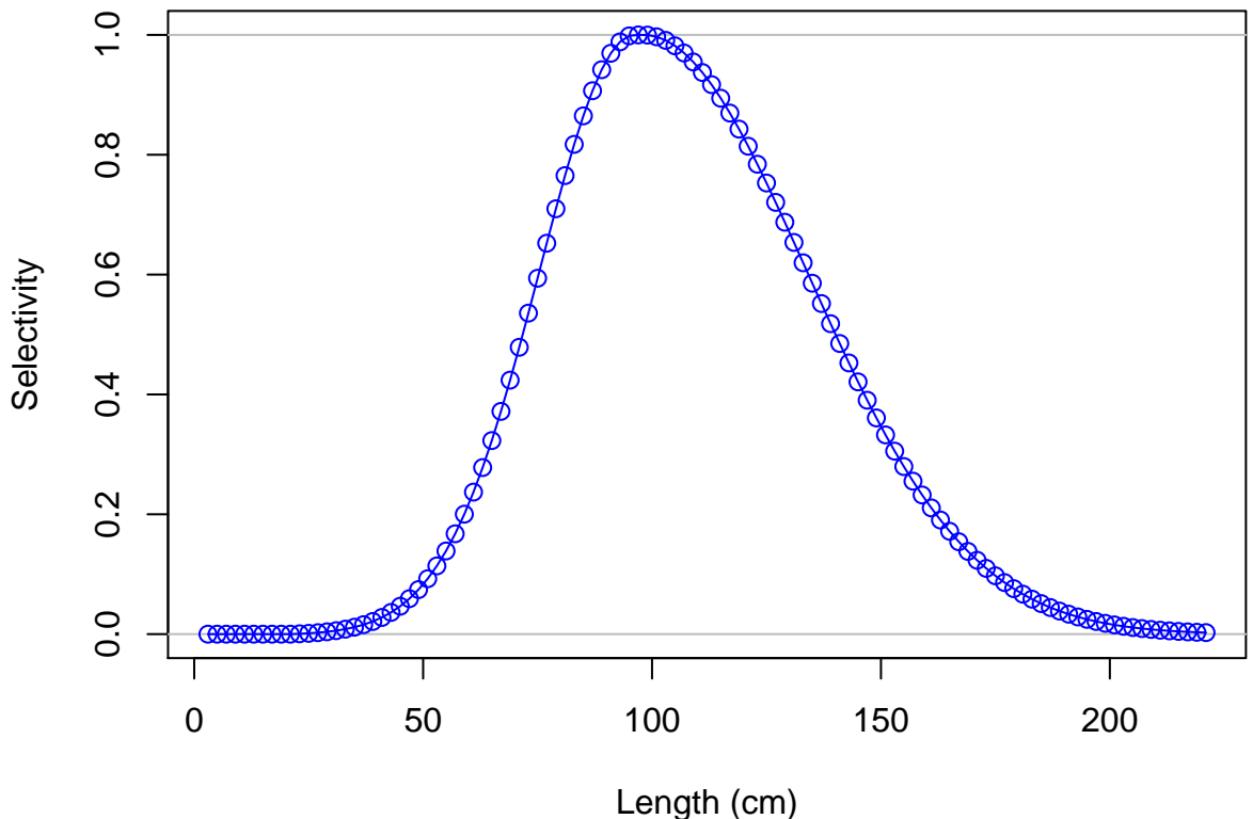
Female ending year selectivity for F5–OBJ_N



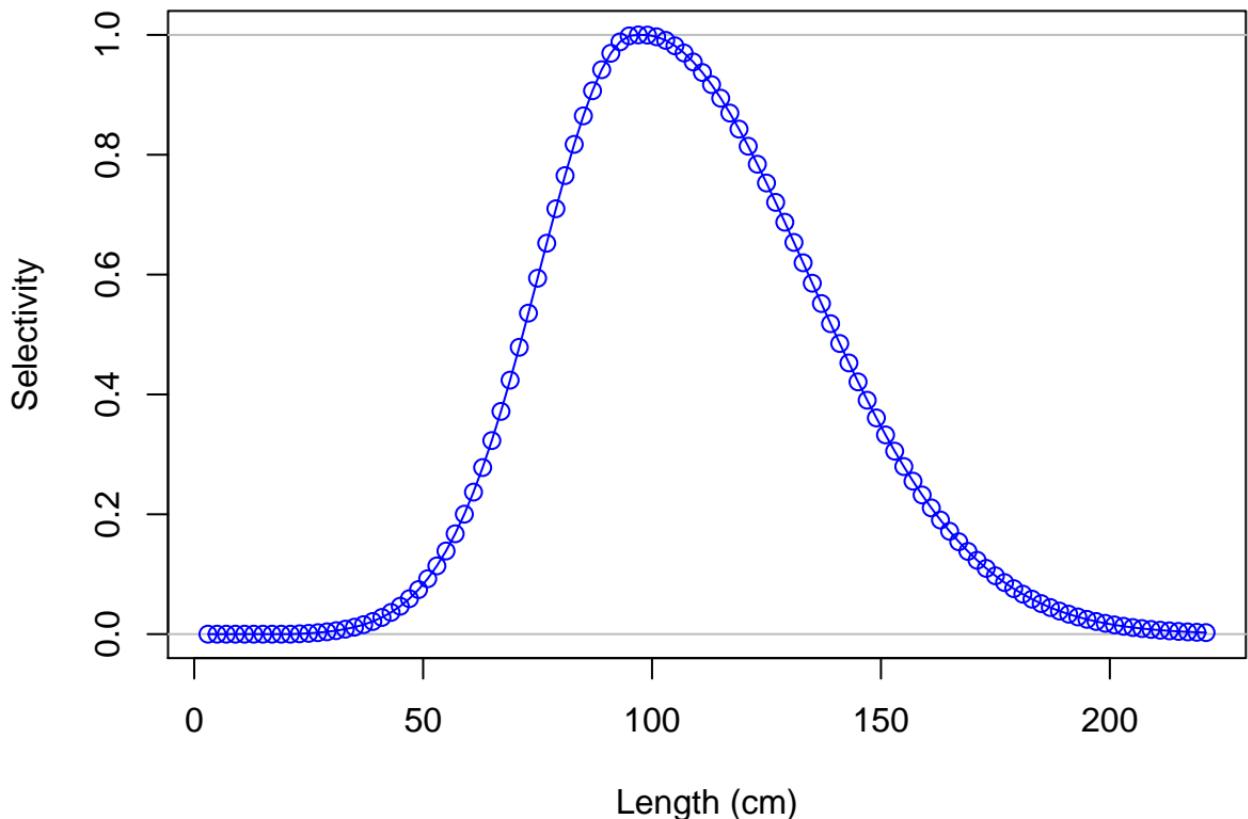
Male ending year selectivity for F5–OBJ_N



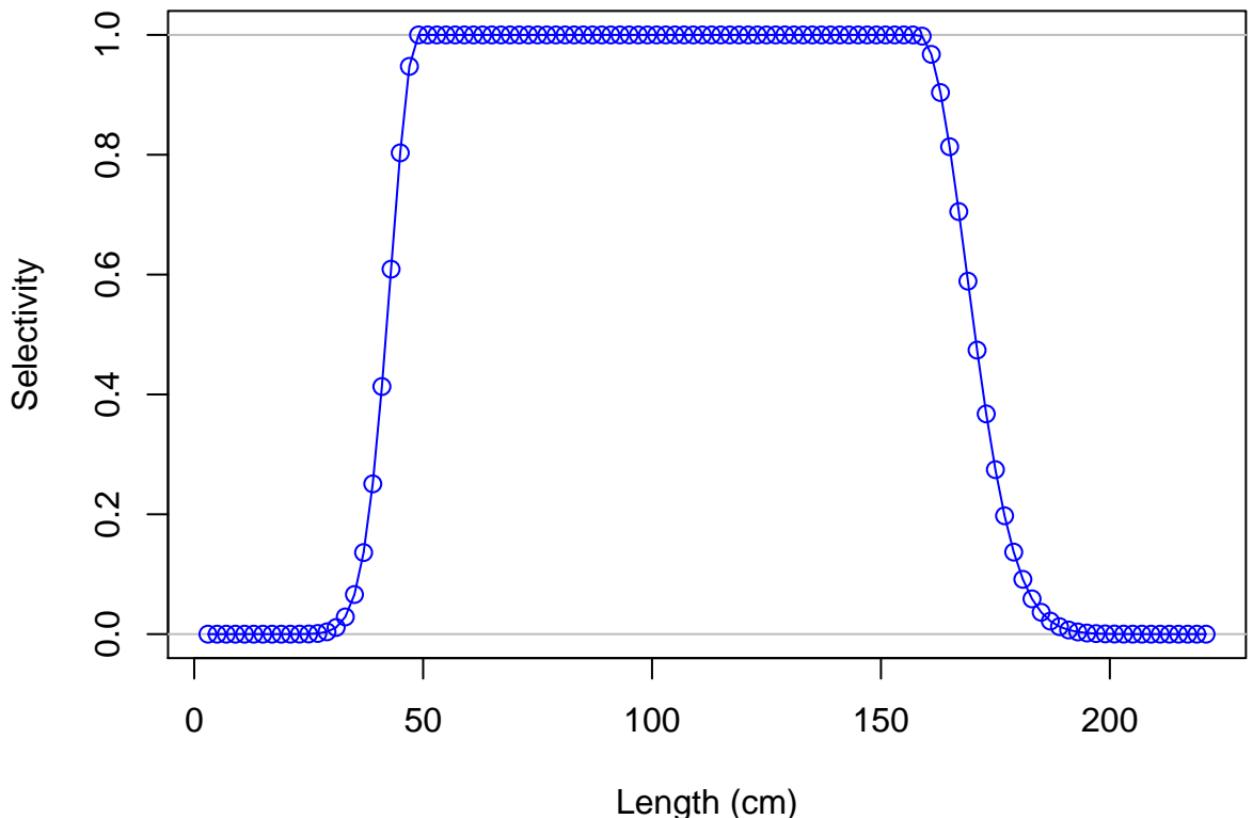
Female ending year selectivity for F6–NOA–DEL_early



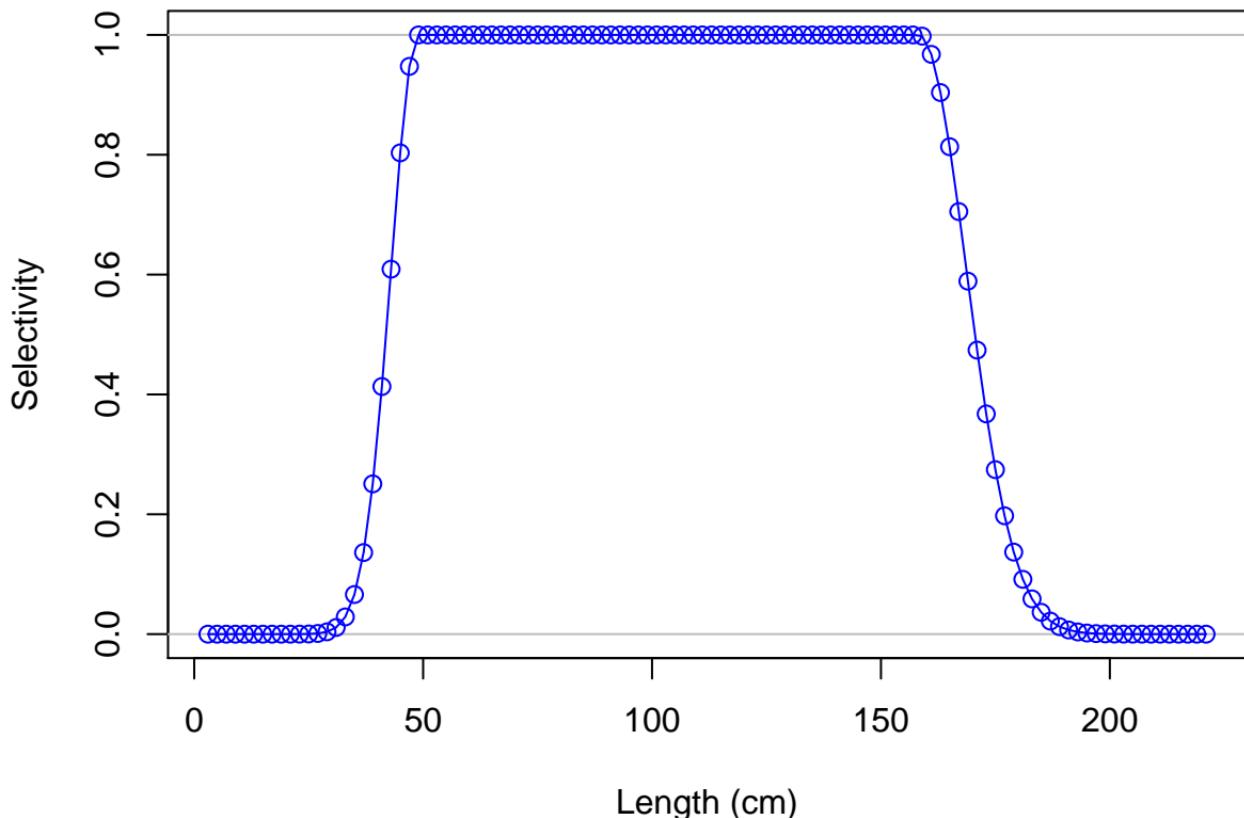
Male ending year selectivity for F6–NOA–DEL_early



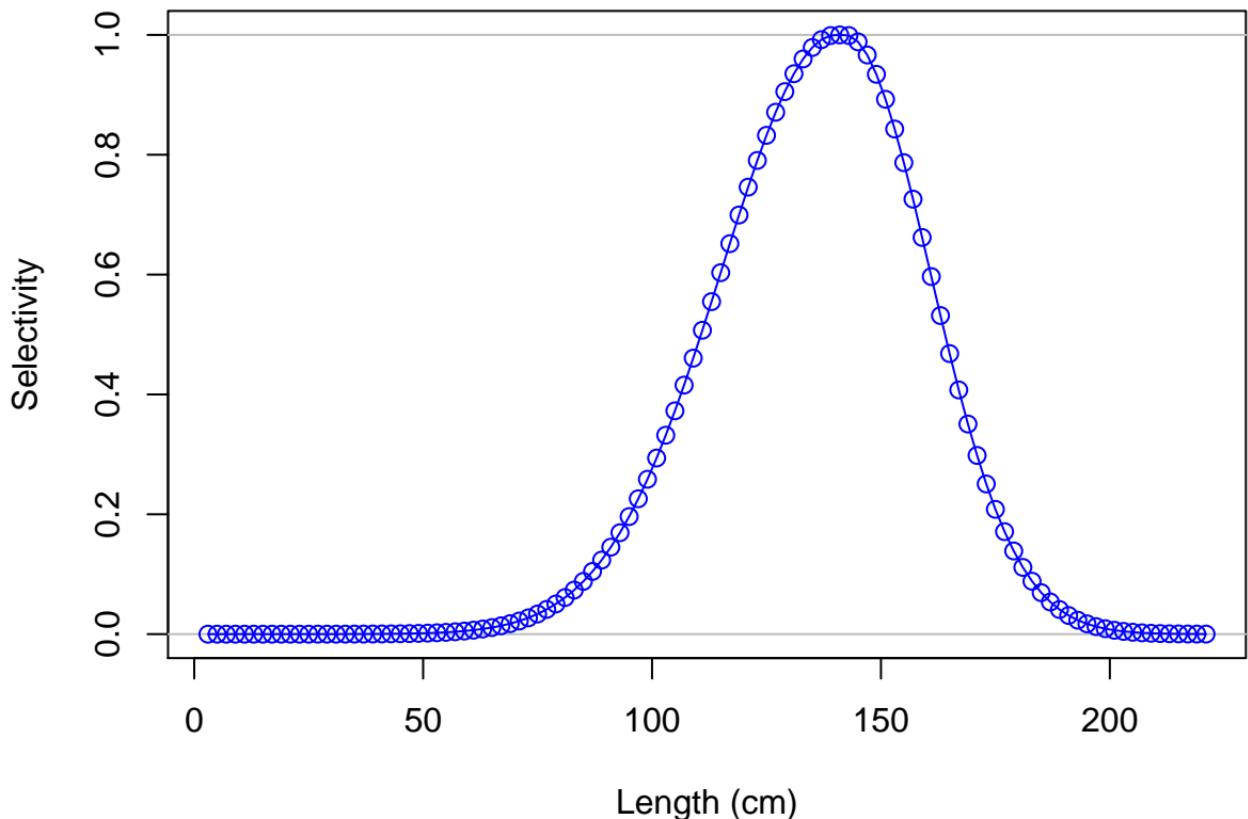
Female ending year selectivity for F7-NOA-DEL_late



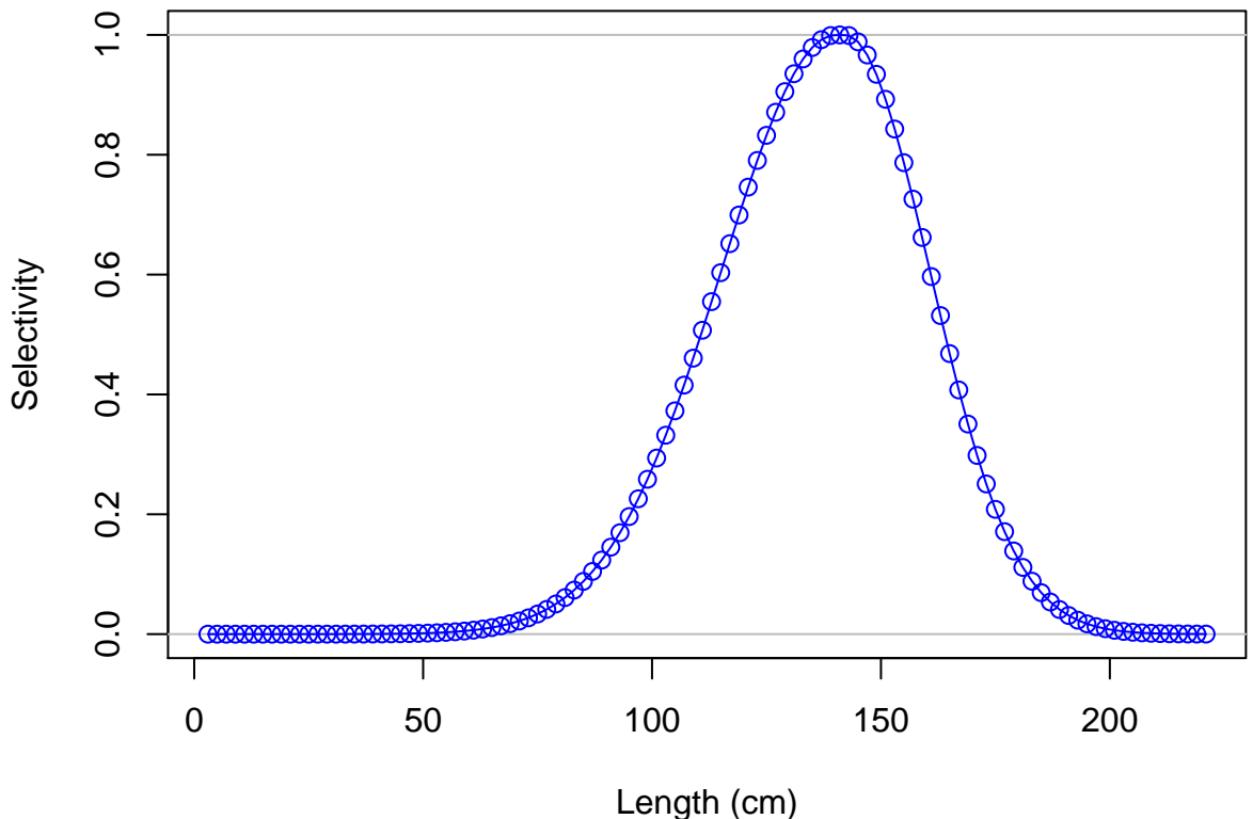
Male ending year selectivity for F7–NOA–DEL_late



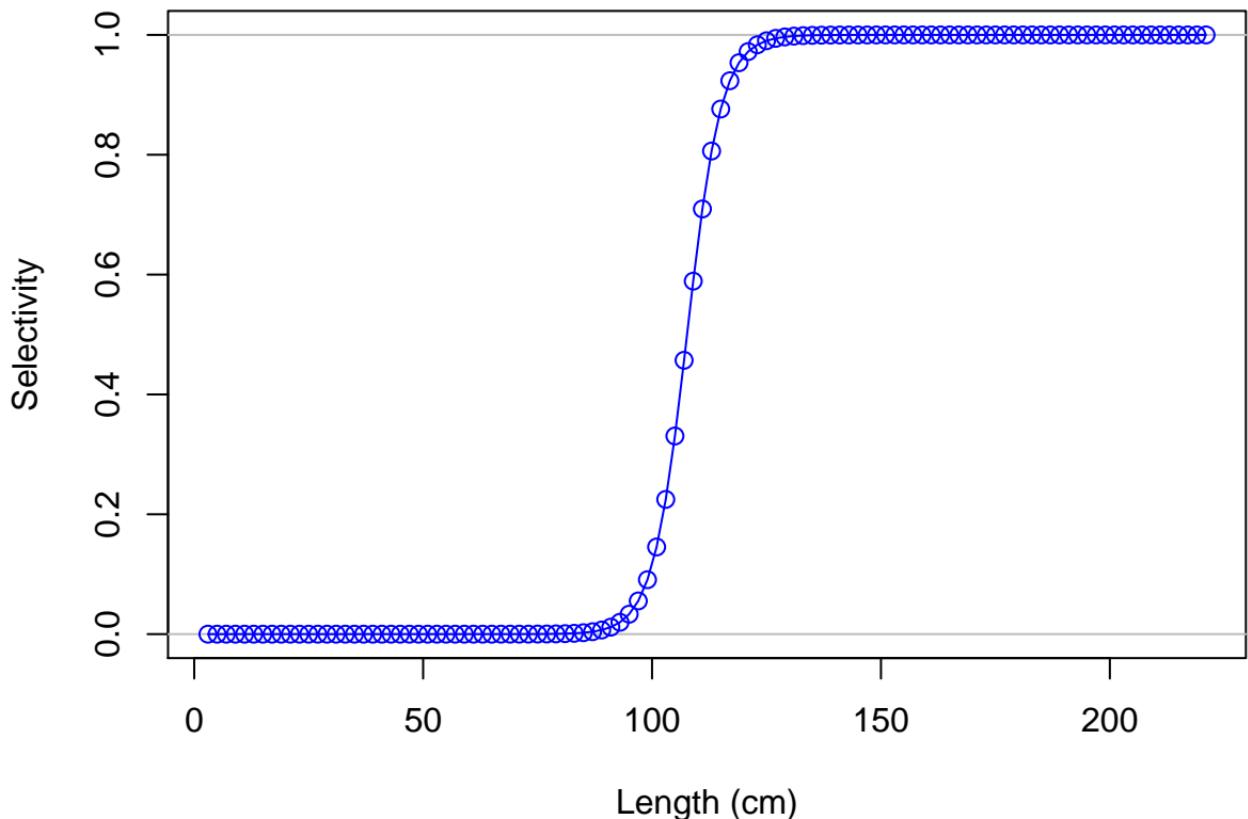
Female ending year selectivity for F12-LL_N_num



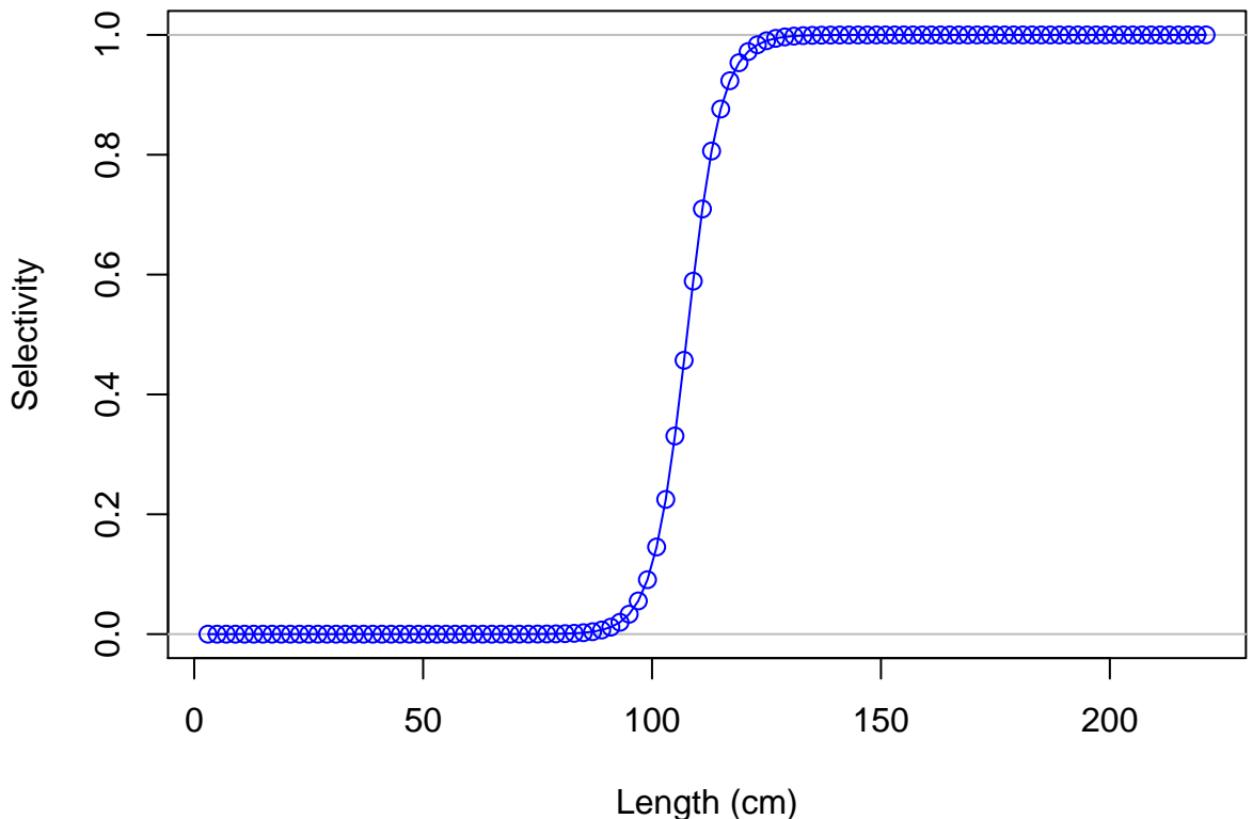
Male ending year selectivity for F12-LL_N_num



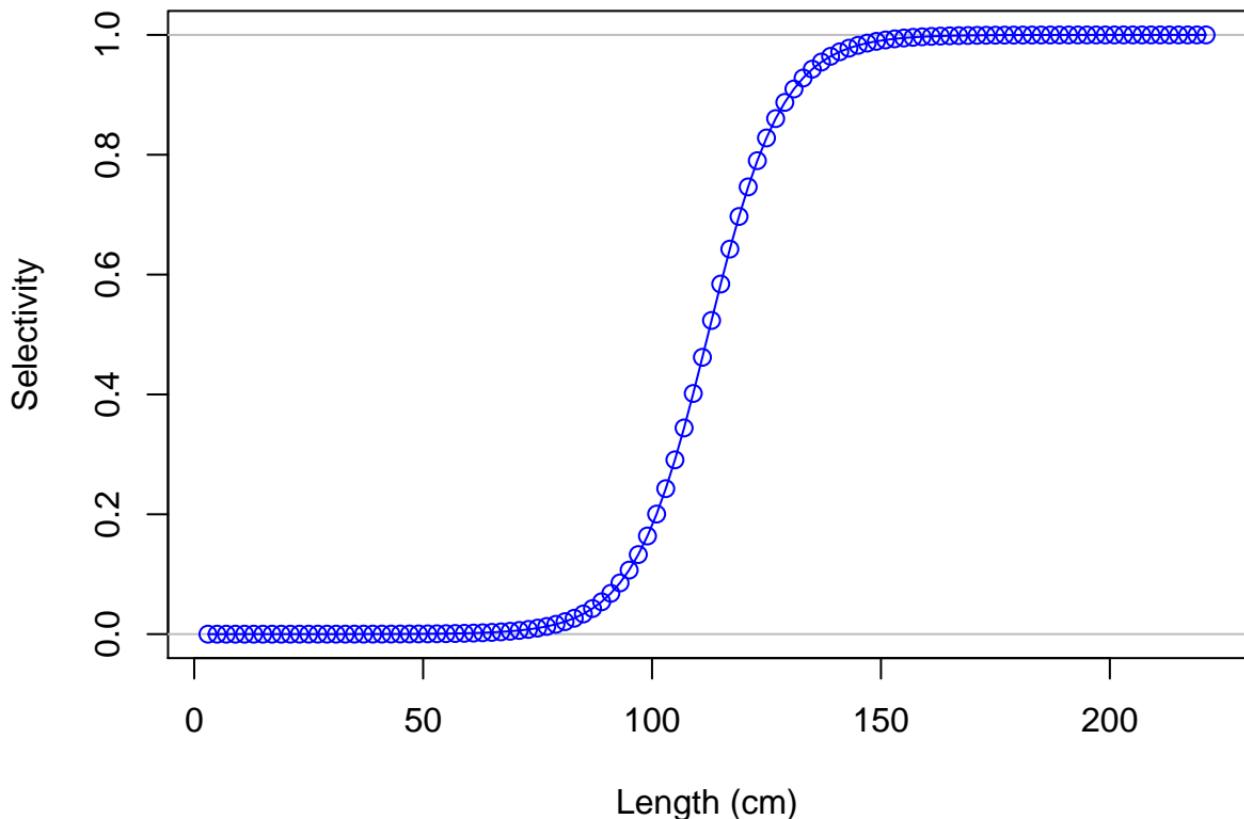
Female ending year selectivity for F13-LL_C_num



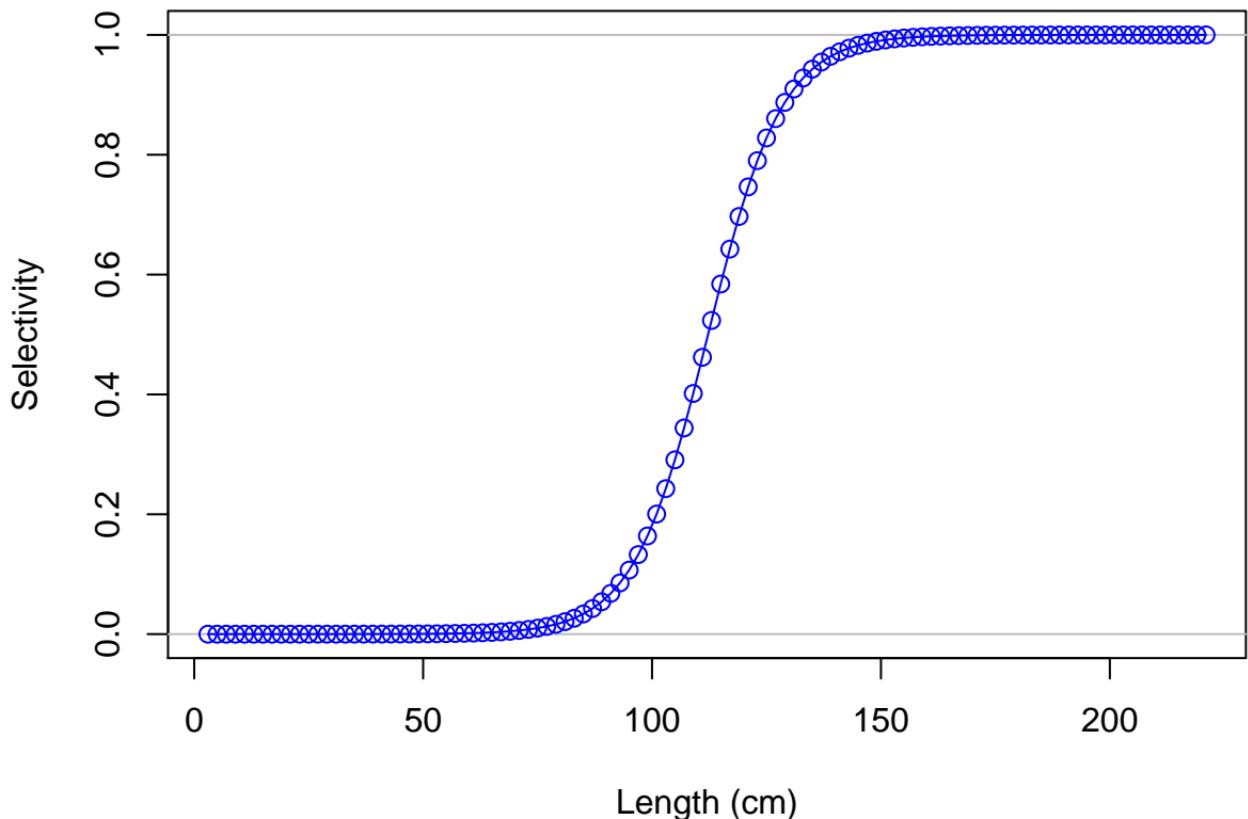
Male ending year selectivity for F13-LL_C_num



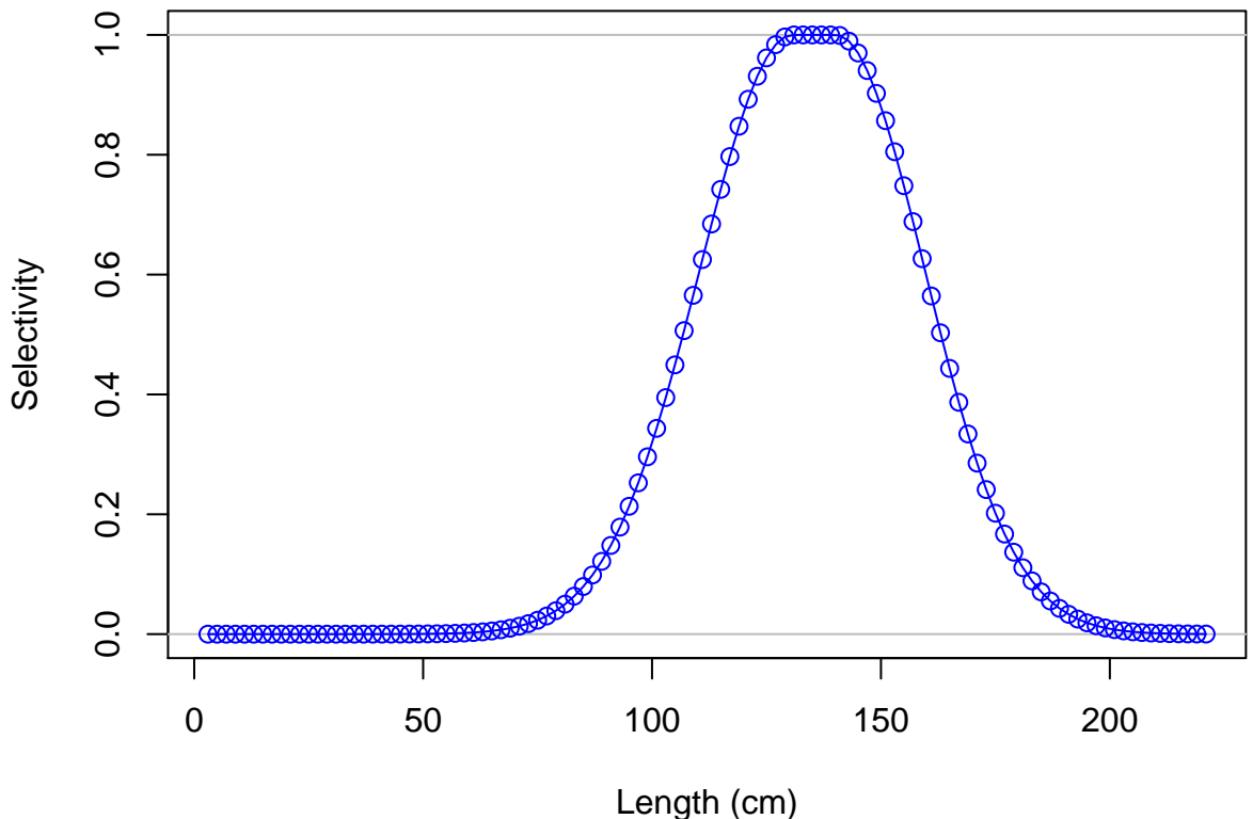
Female ending year selectivity for F14-LL_S_num



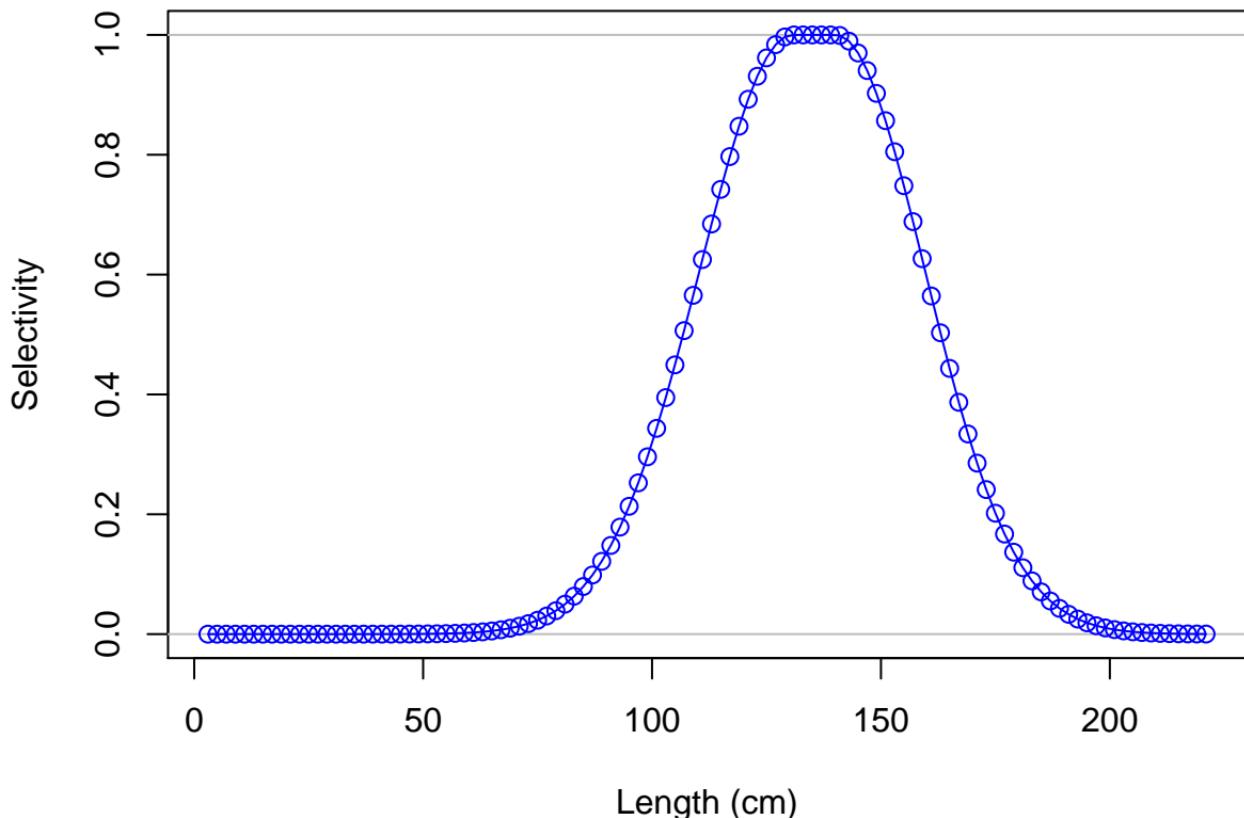
Male ending year selectivity for F14-LL_S_num



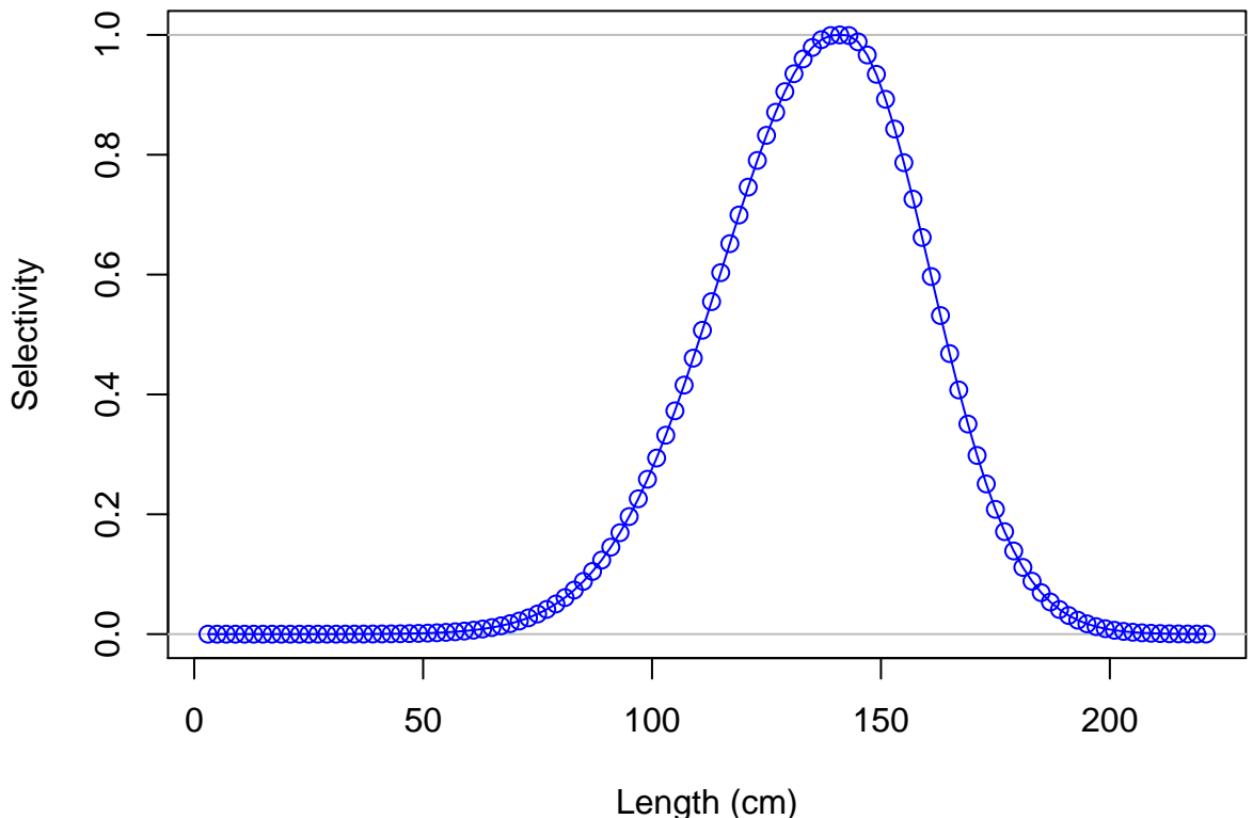
Female ending year selectivity for F15-LL_I_num



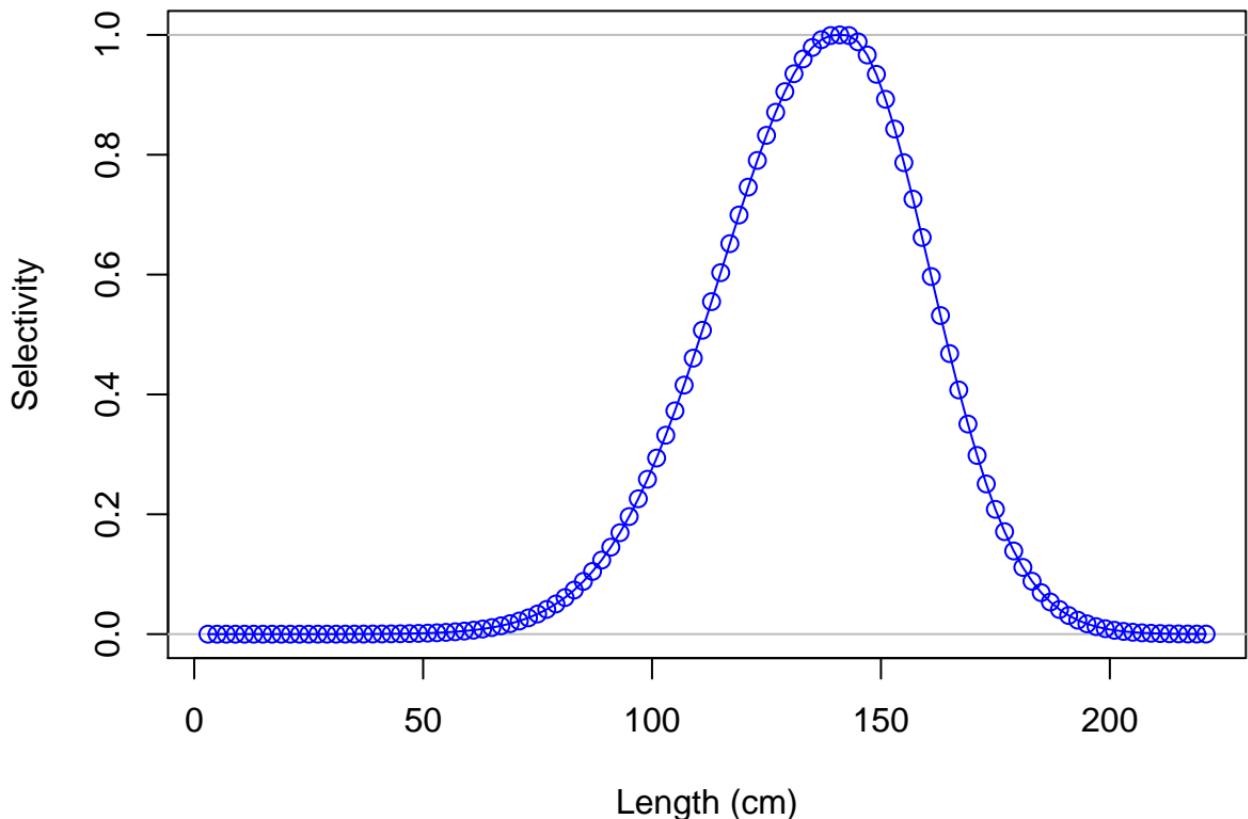
Male ending year selectivity for F15-LL_I_num



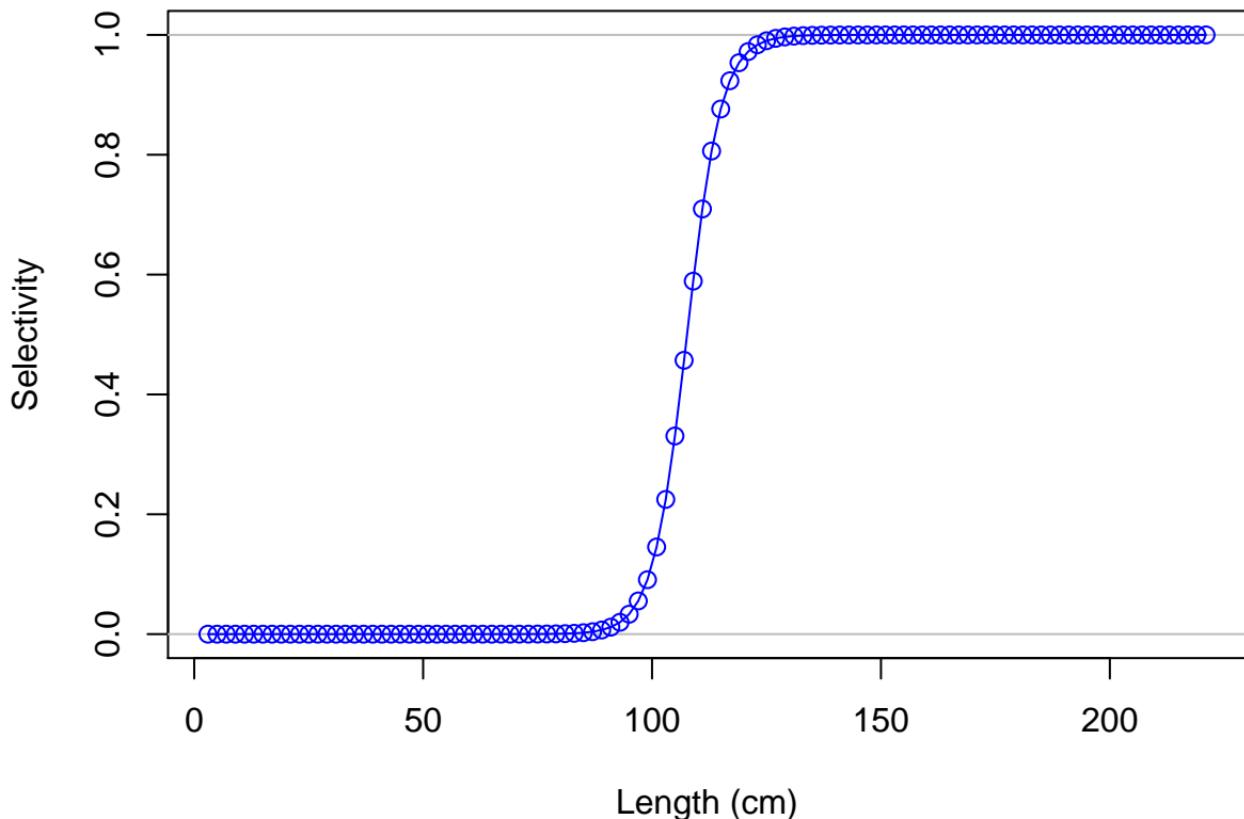
Female ending year selectivity for F16-LL_N_w



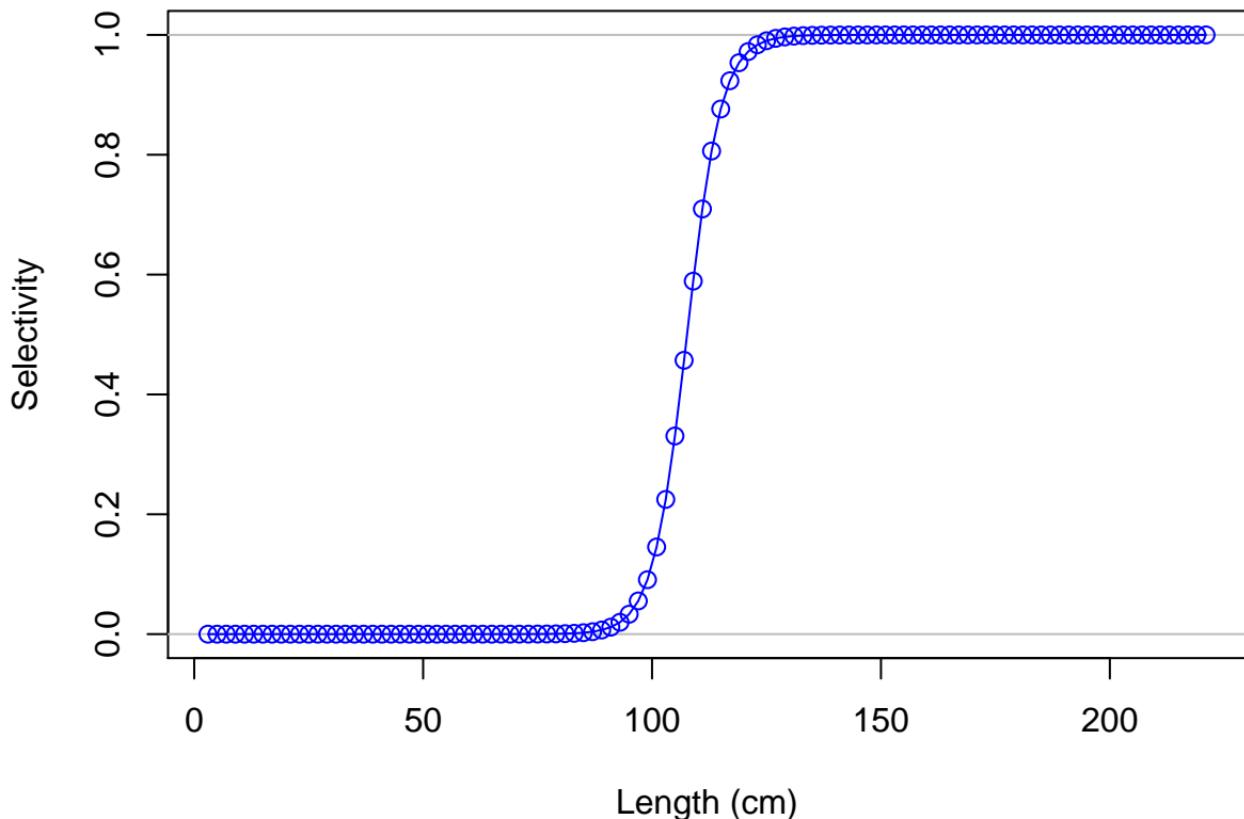
Male ending year selectivity for F16-LL_N_w



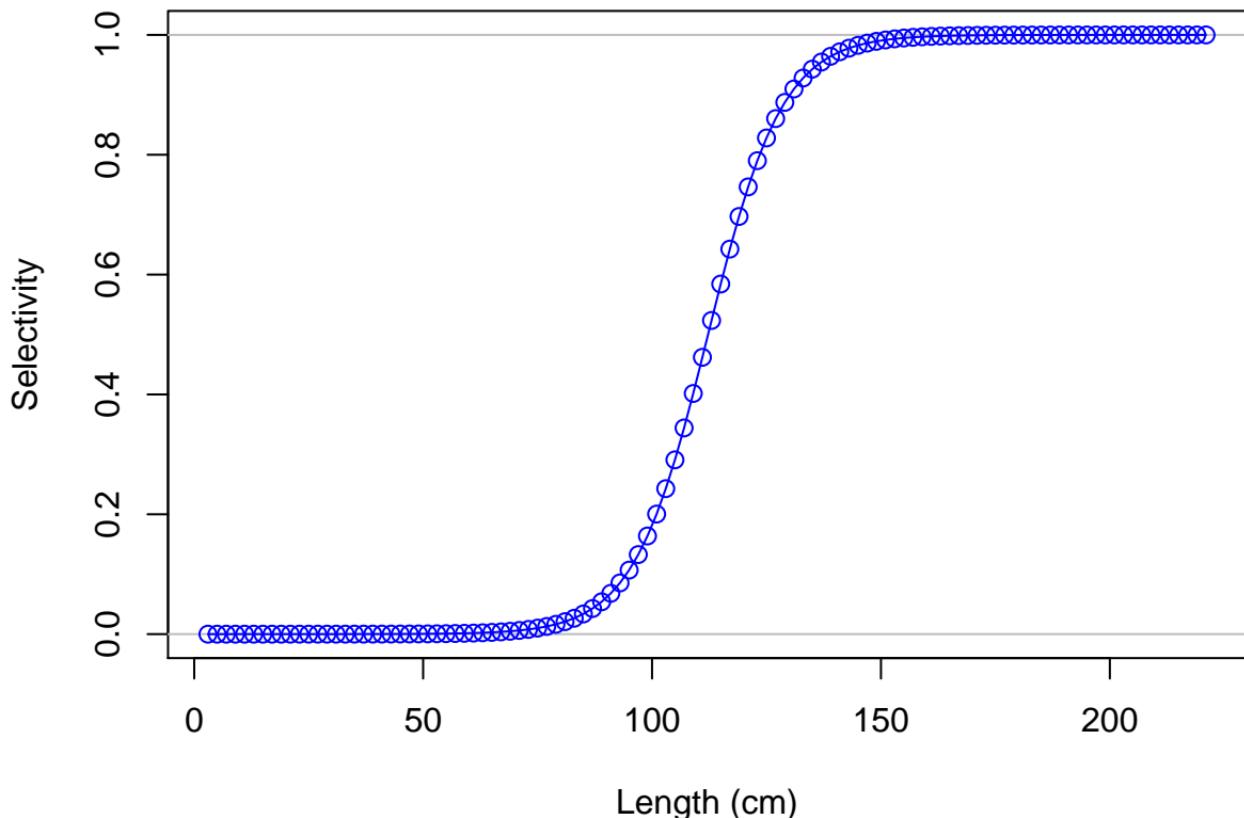
Female ending year selectivity for F17-LL_C_w



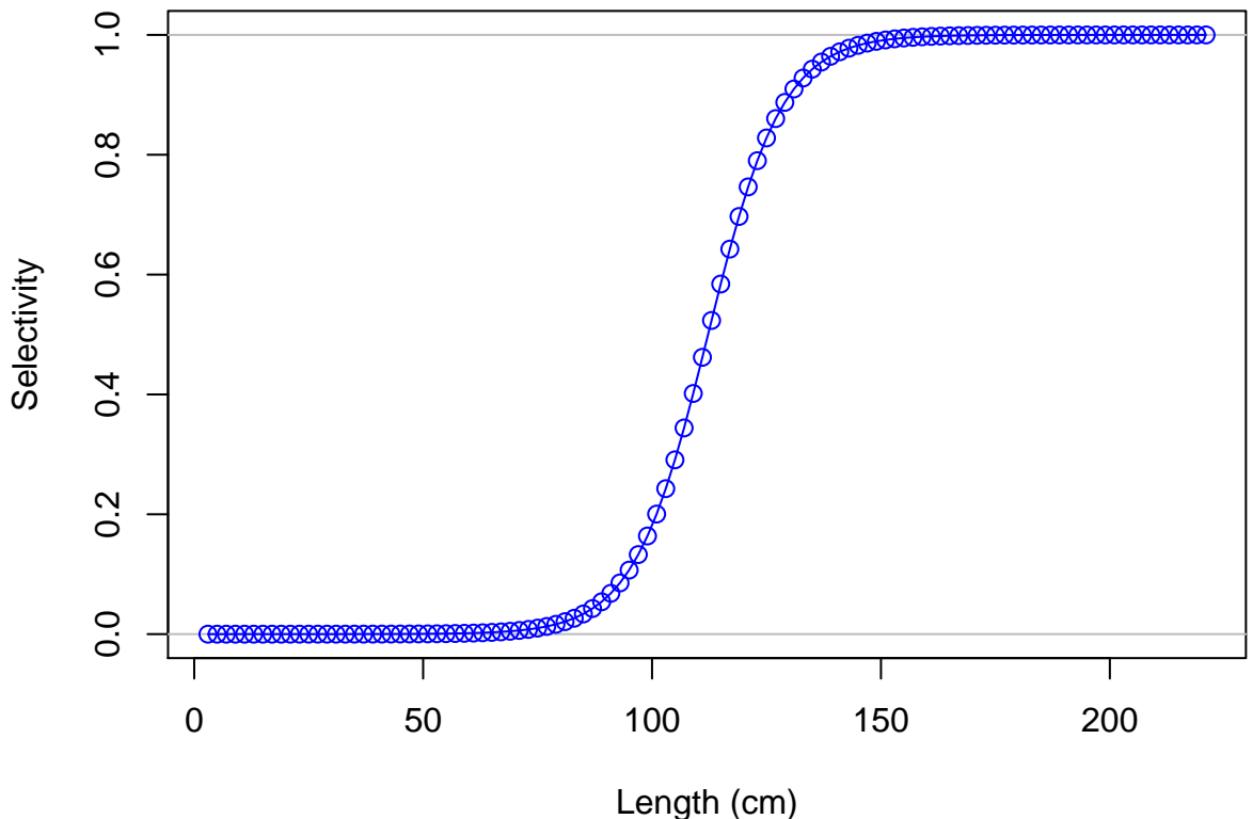
Male ending year selectivity for F17-LL_C_w



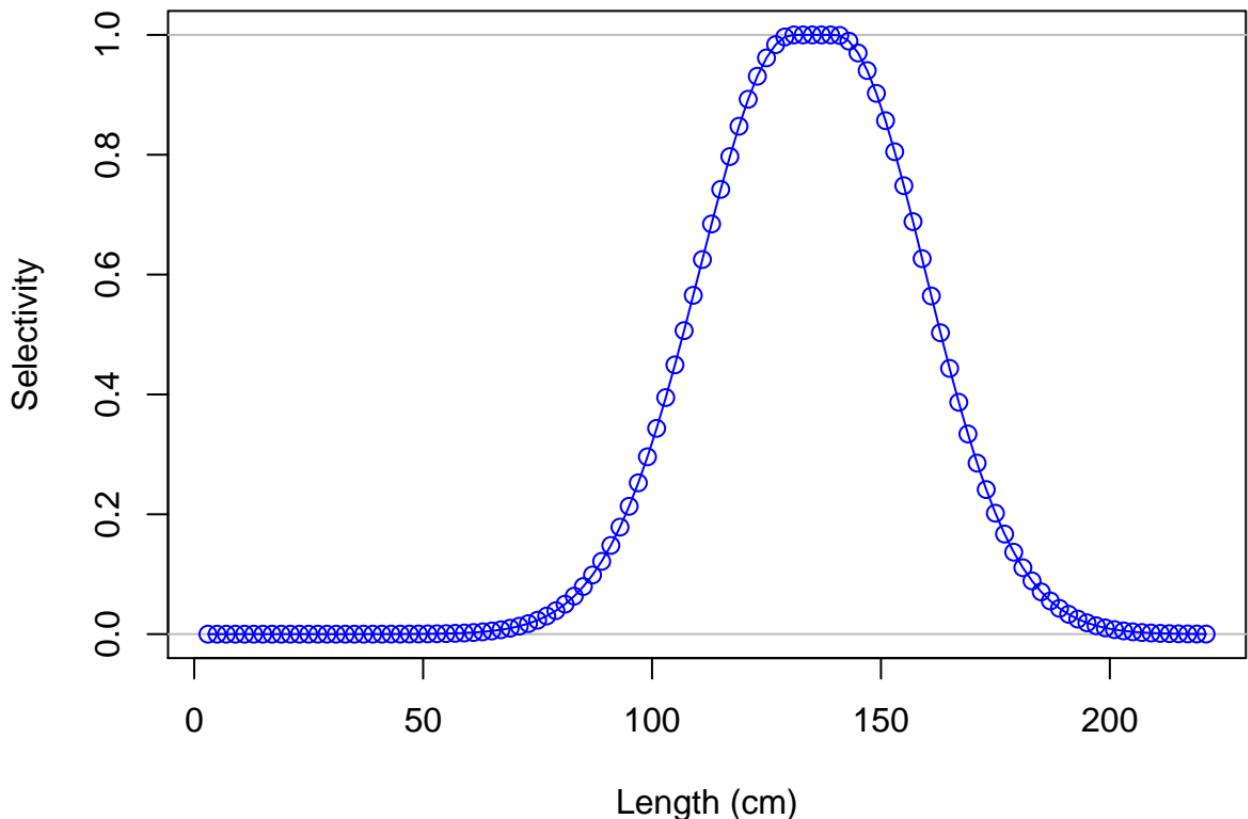
Female ending year selectivity for F18-LL_S_w



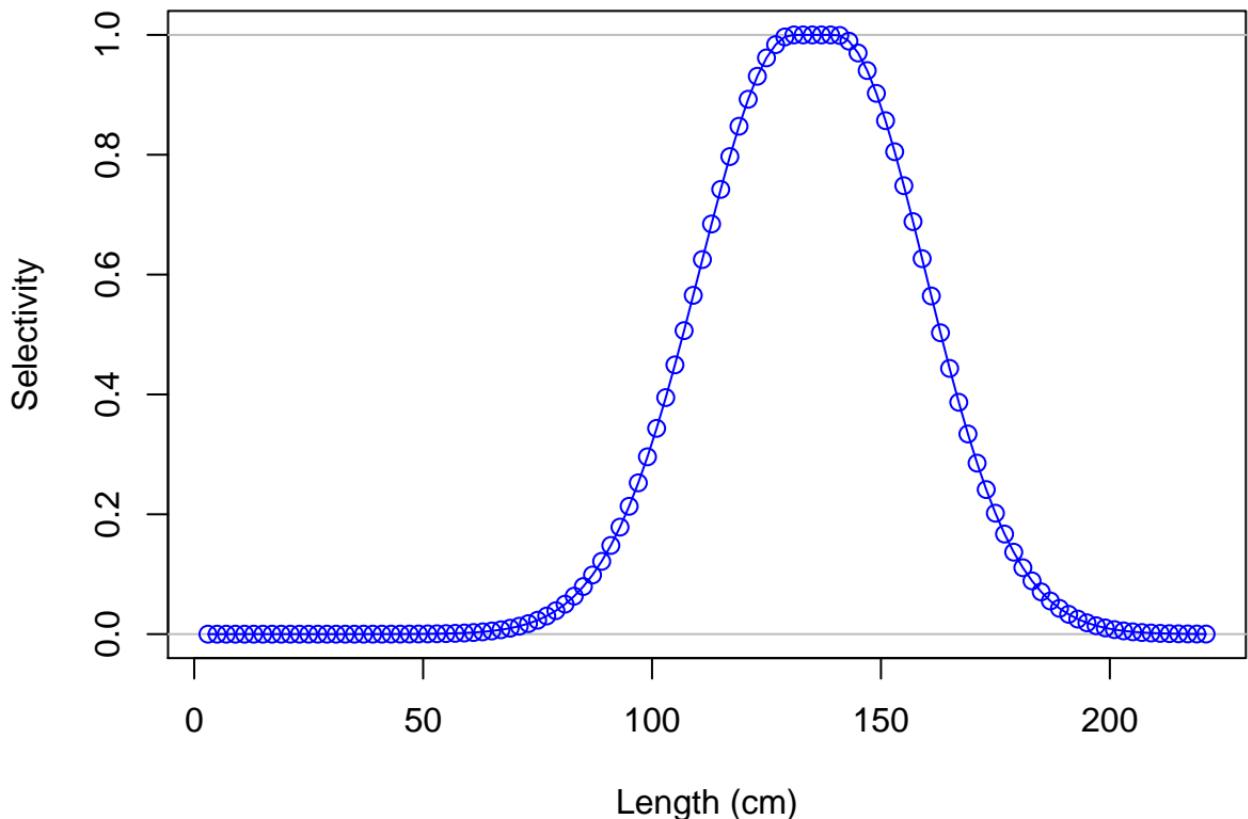
Male ending year selectivity for F18-LL_S_w



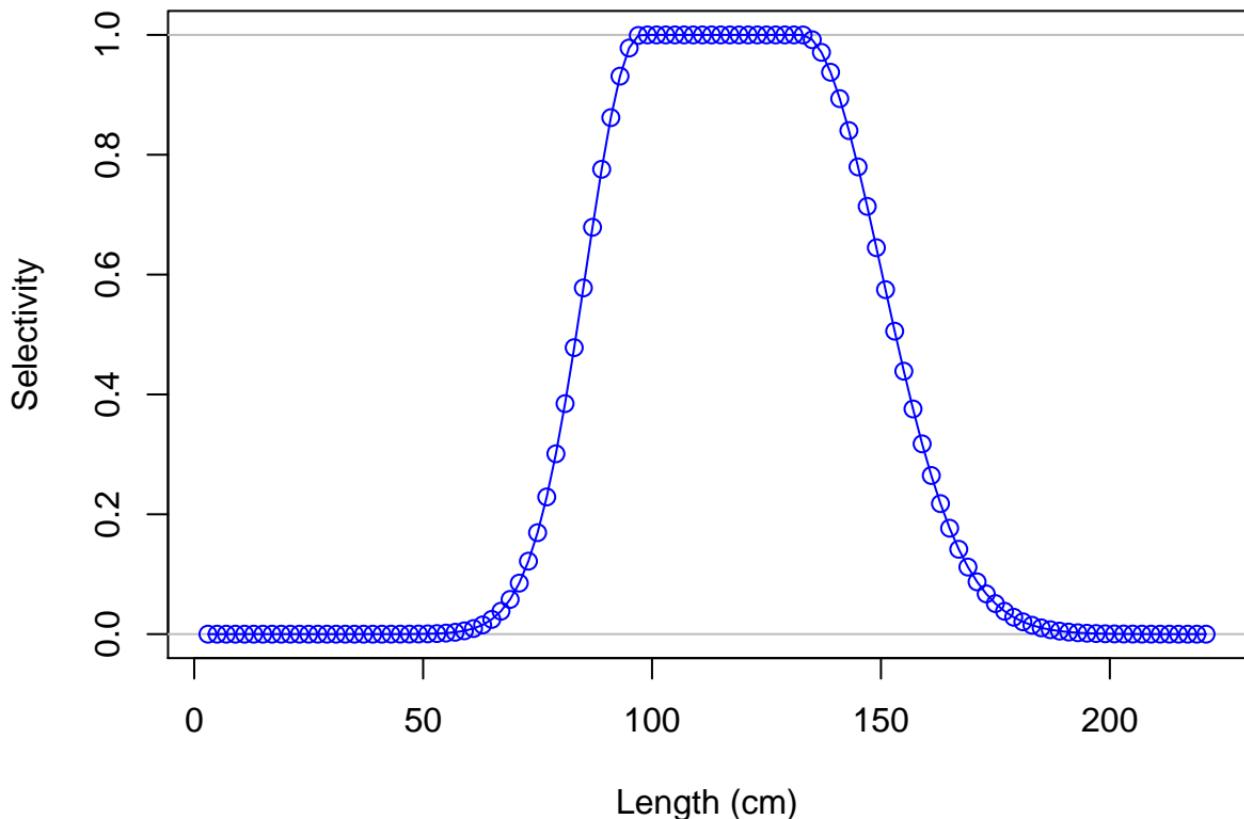
Female ending year selectivity for F19-LL_I_w



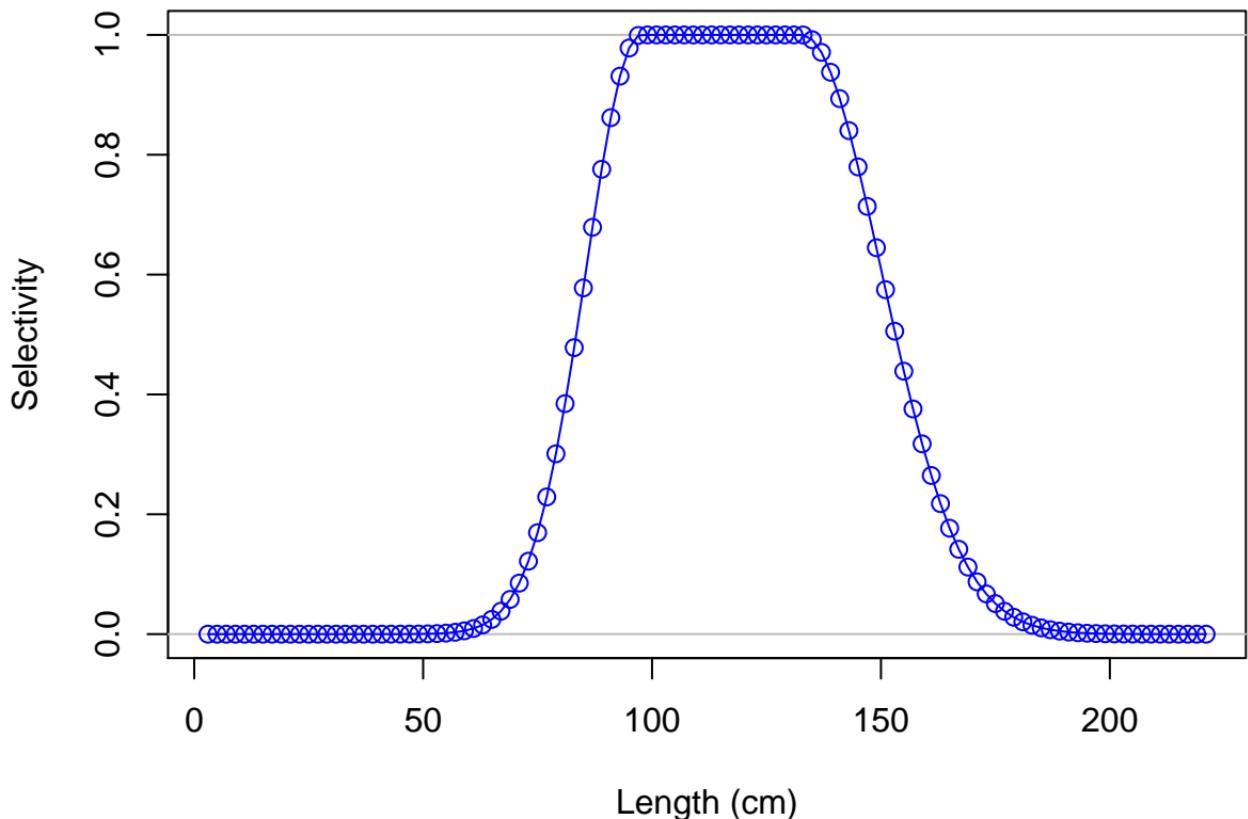
Male ending year selectivity for F19-LL_I_w



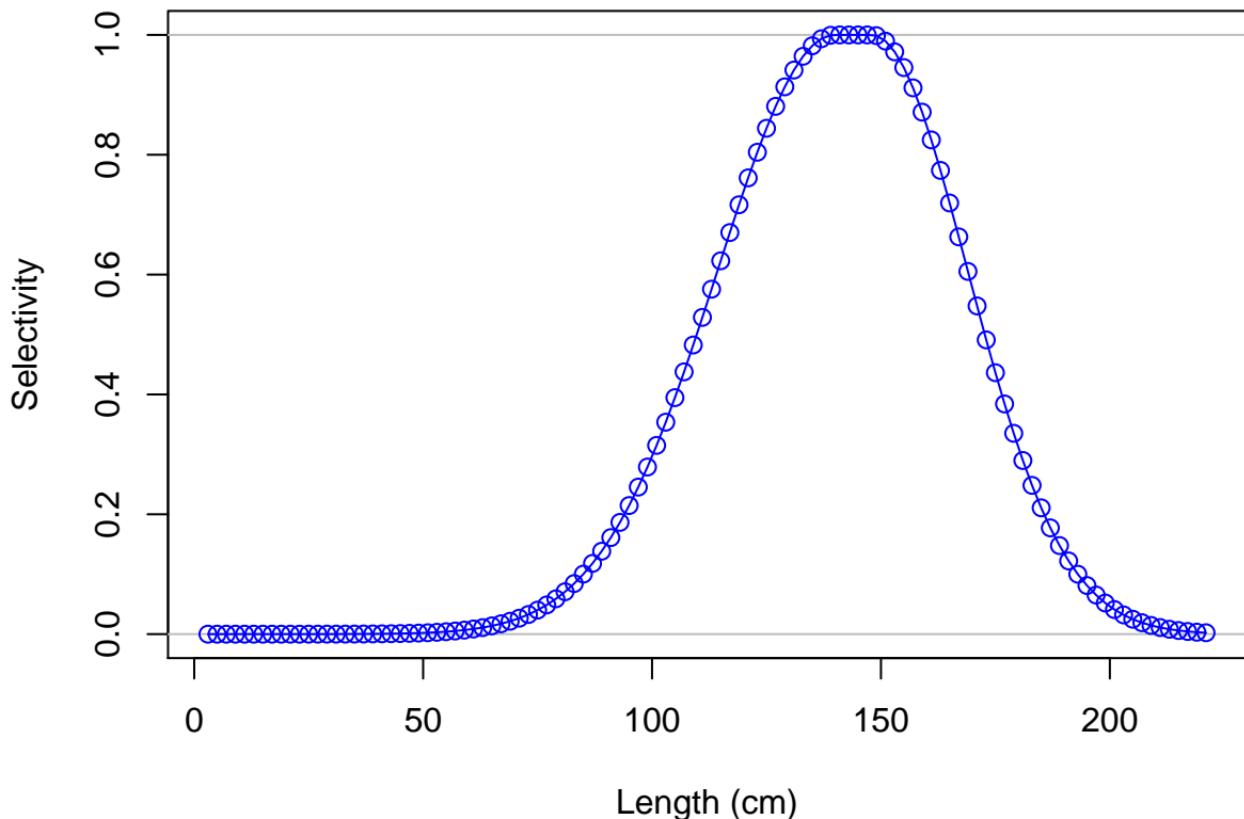
Female ending year selectivity for S1–LLt_N_len



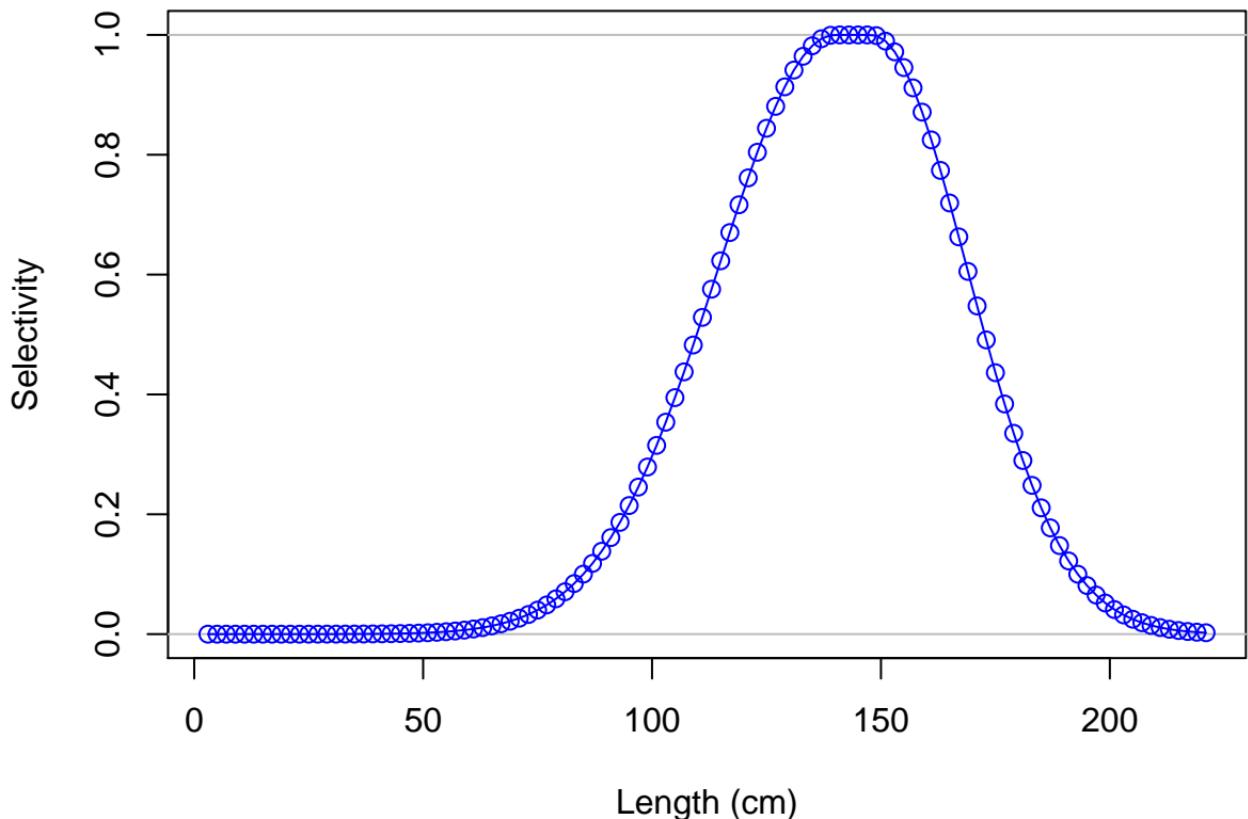
Male ending year selectivity for S1-LLt_N_len



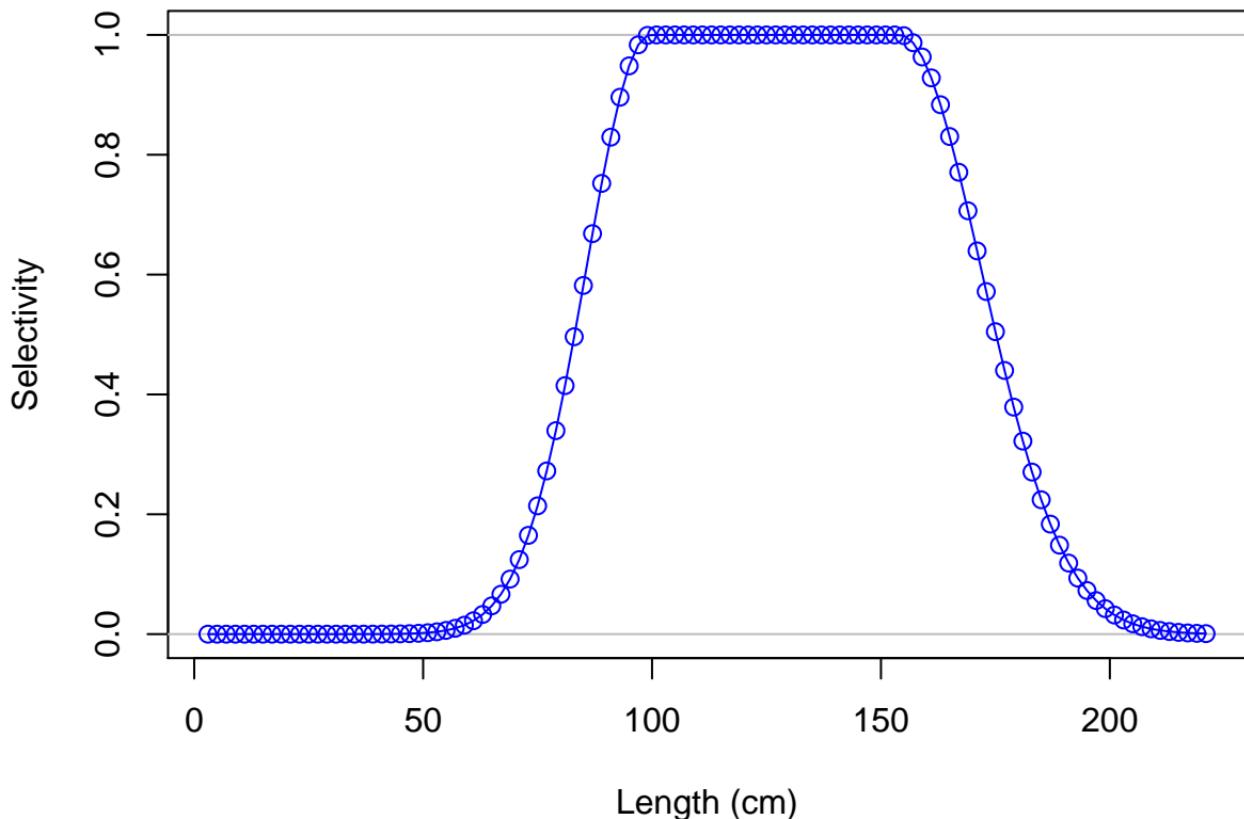
Female ending year selectivity for S2-LLt_C_len



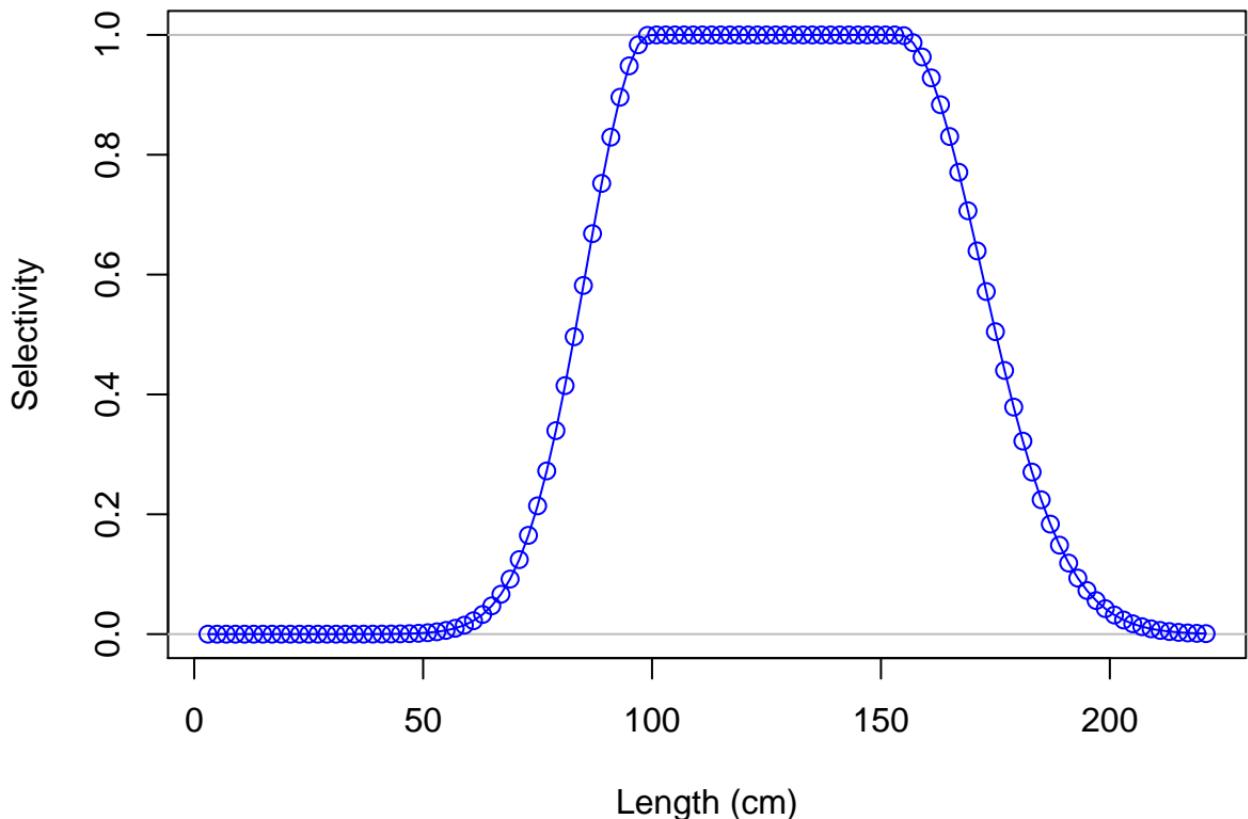
Male ending year selectivity for S2-LLt_C_len



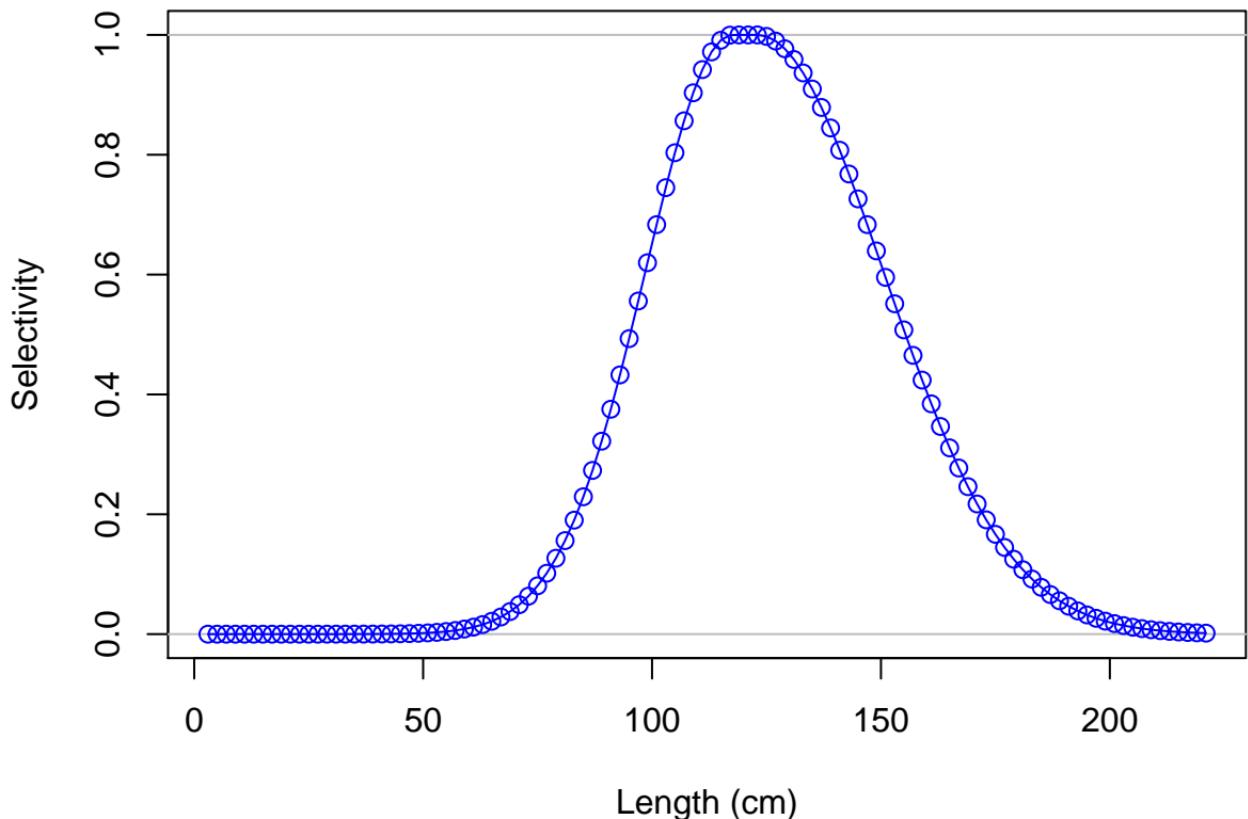
Female ending year selectivity for S3–LLt_S_len



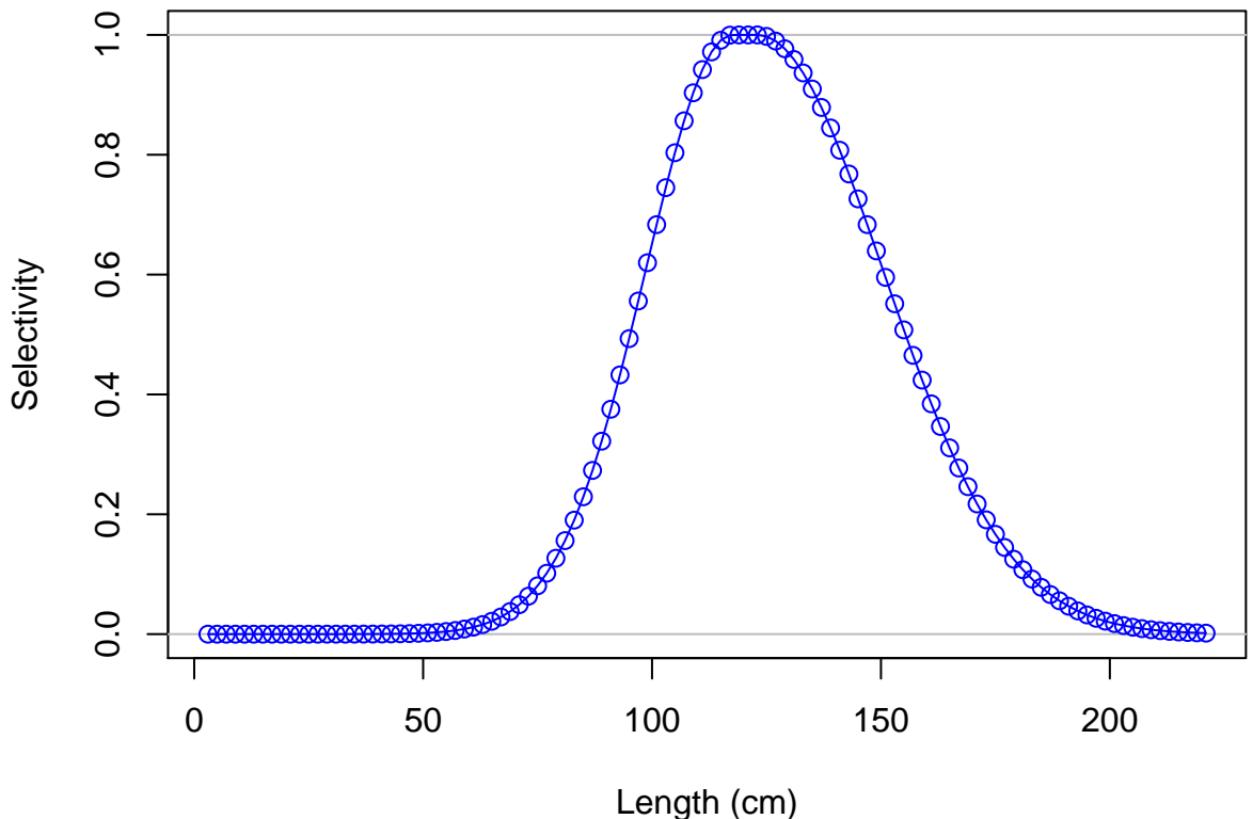
Male ending year selectivity for S3-LLt_S_len



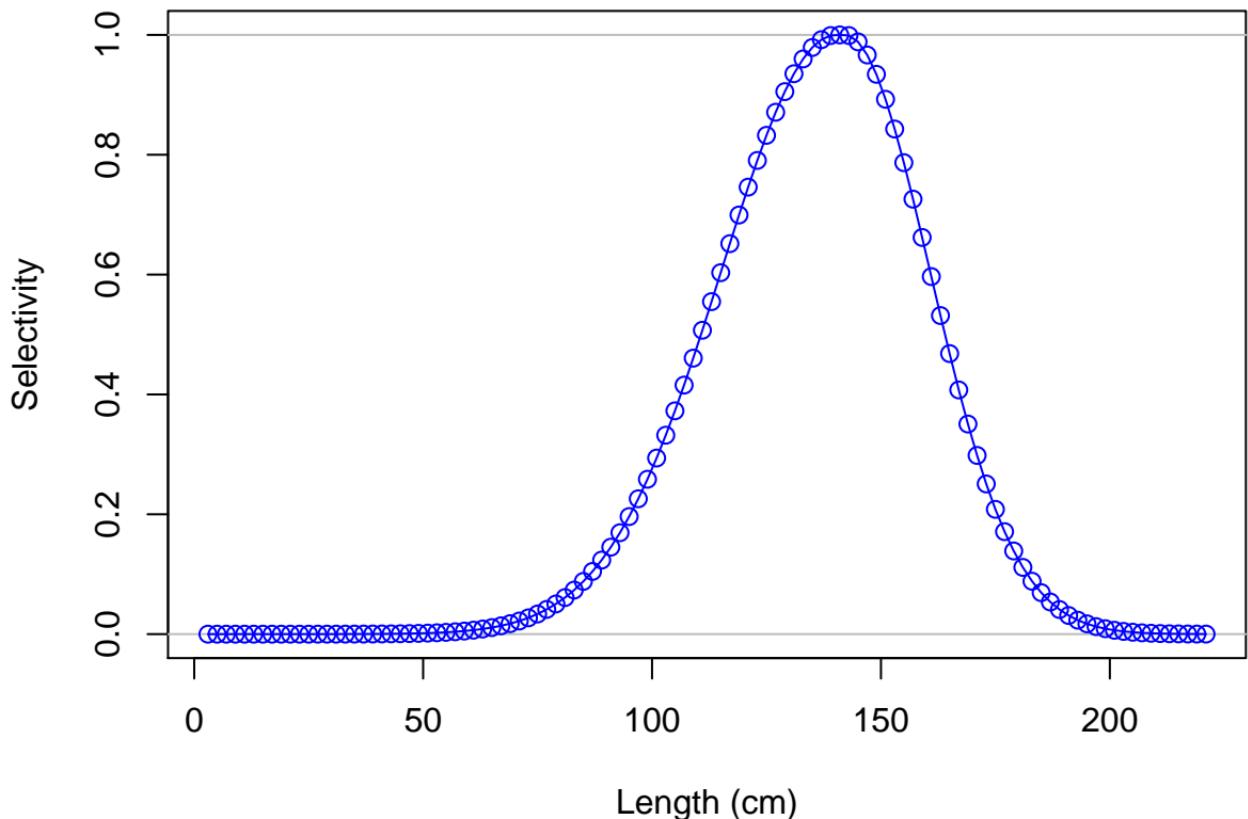
Female ending year selectivity for S4-LLt_I_len



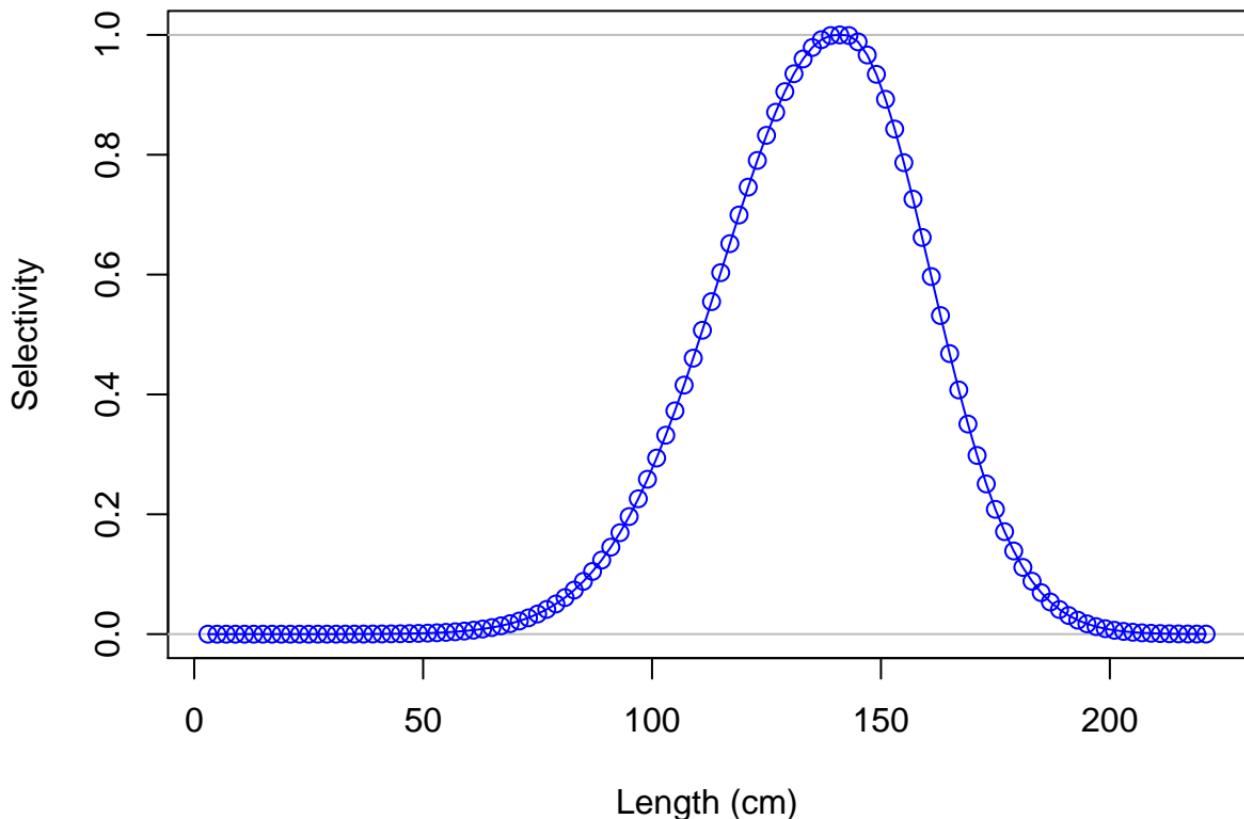
Male ending year selectivity for S4–LLt_I_len



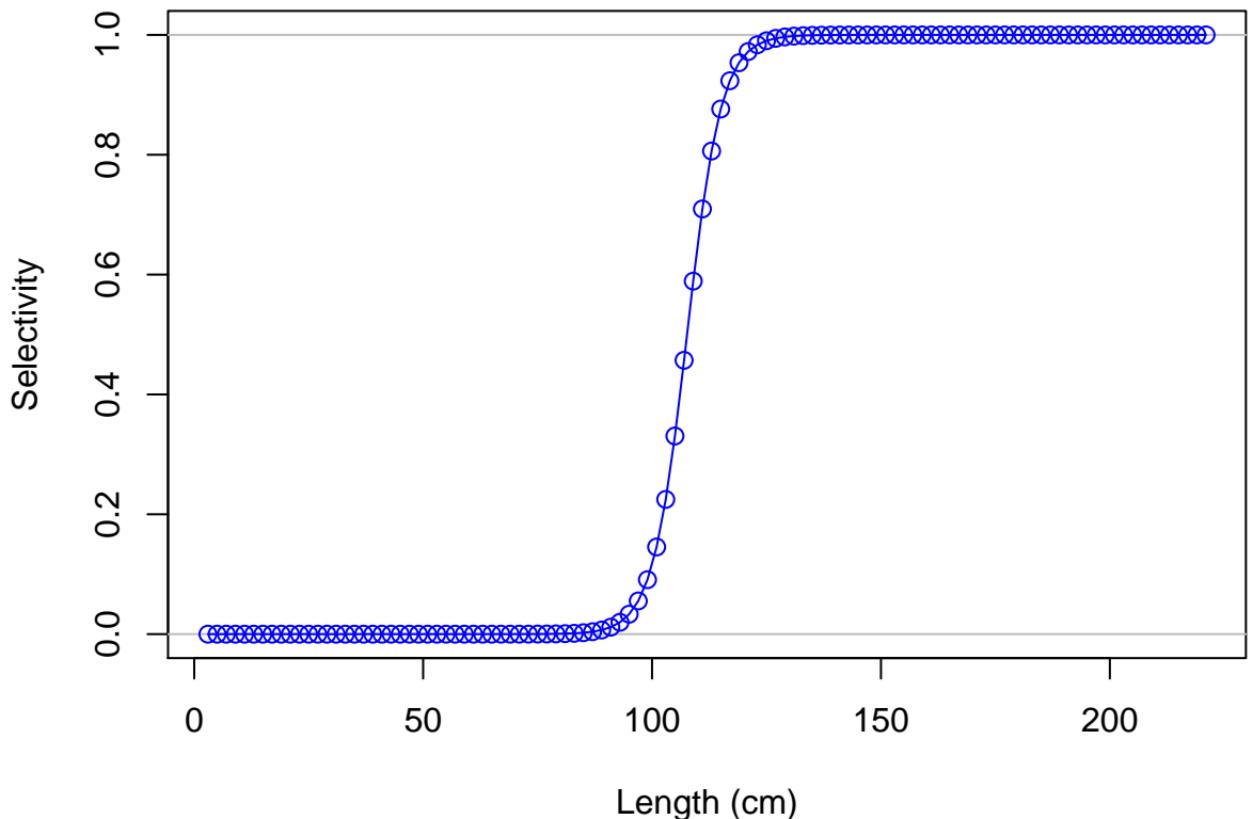
Female ending year selectivity for S5-LLc_N_w



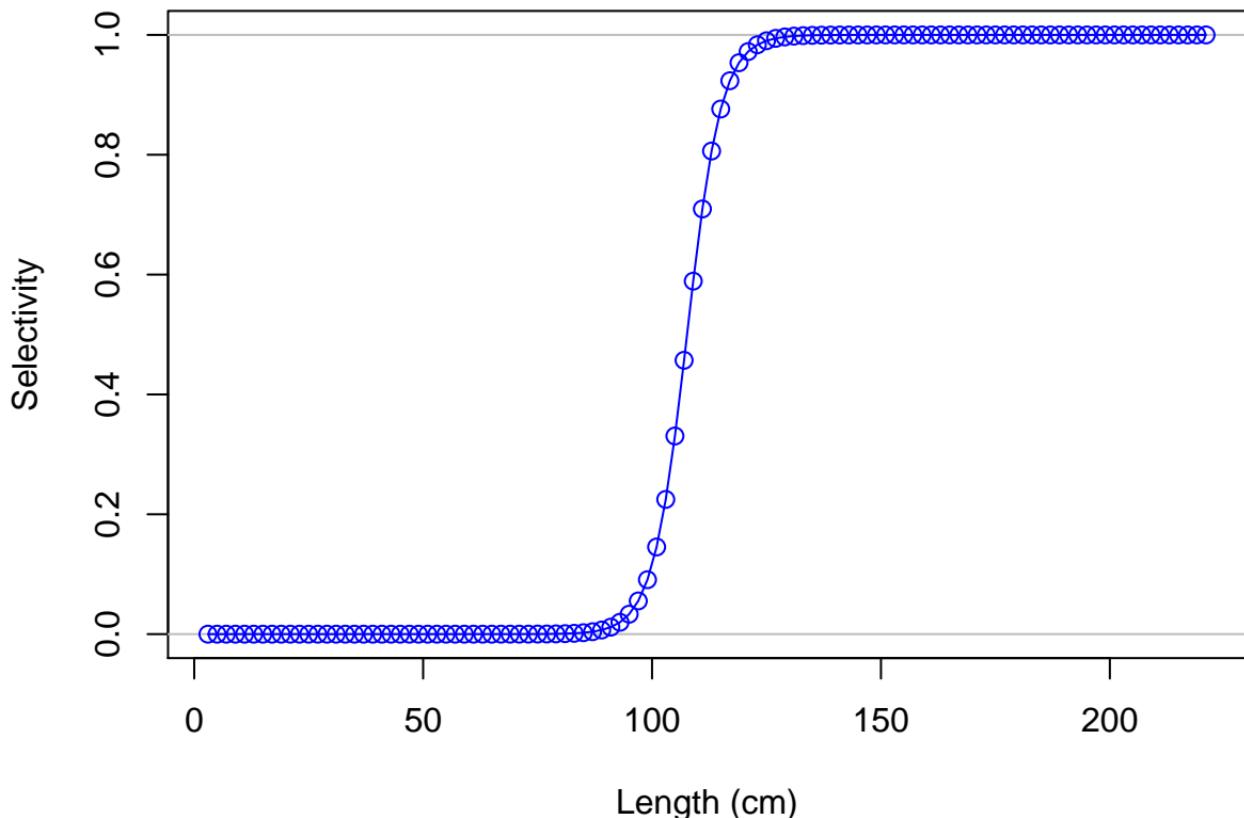
Male ending year selectivity for S5–LLc_N_w



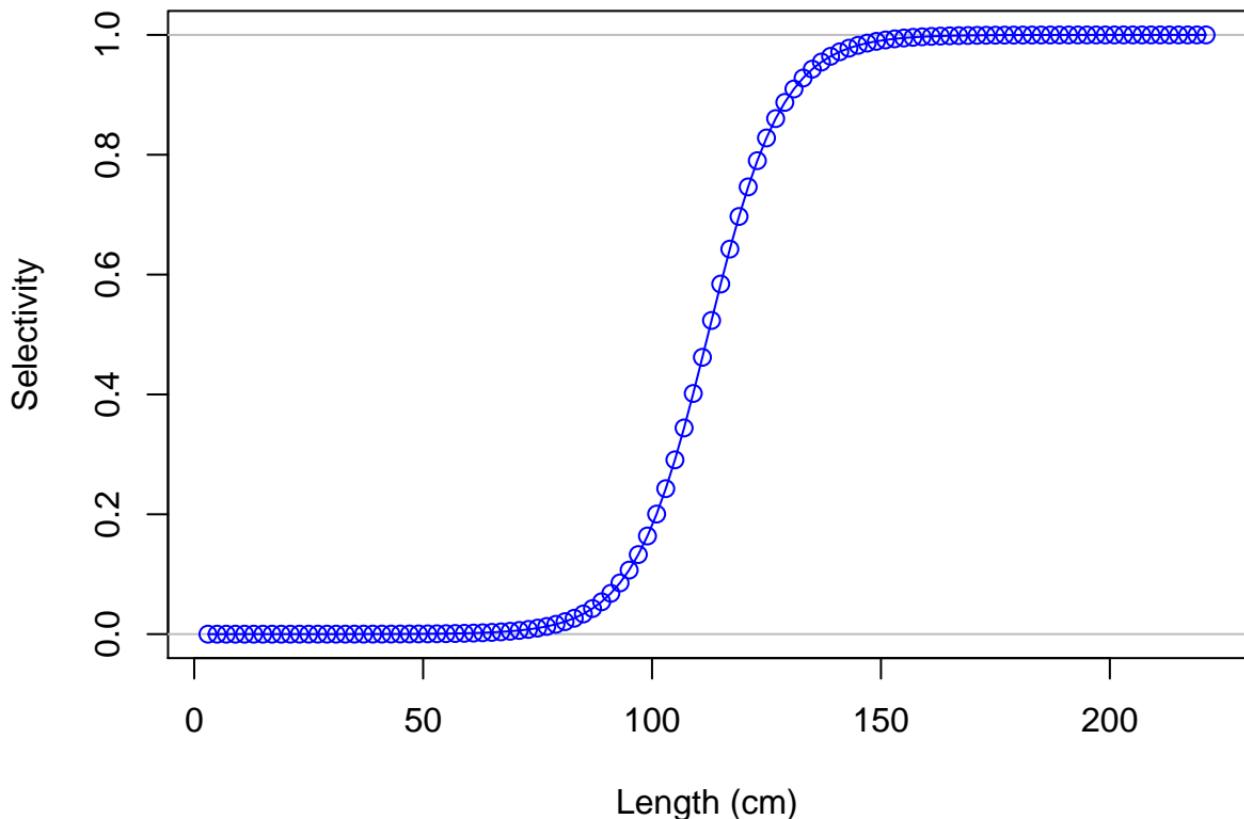
Female ending year selectivity for S6-LLc_C_w



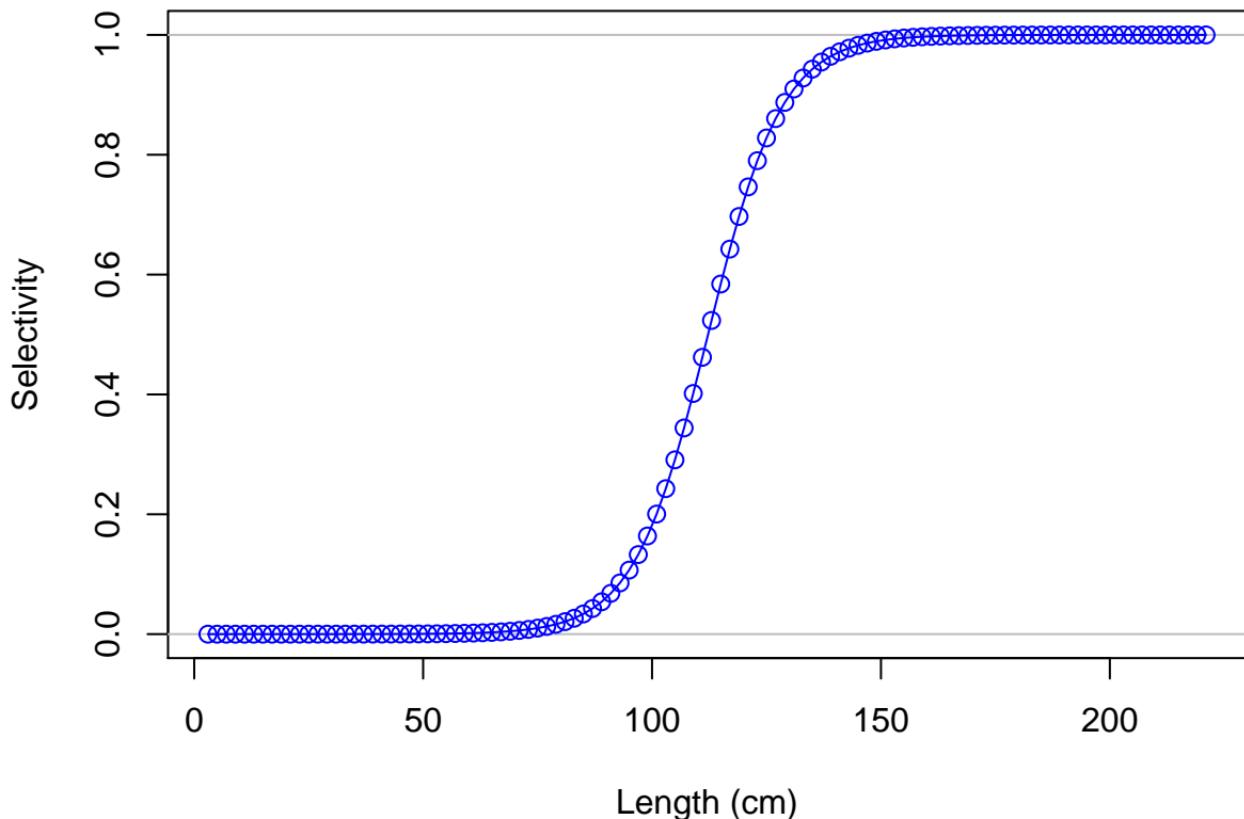
Male ending year selectivity for S6-LLc_C_w



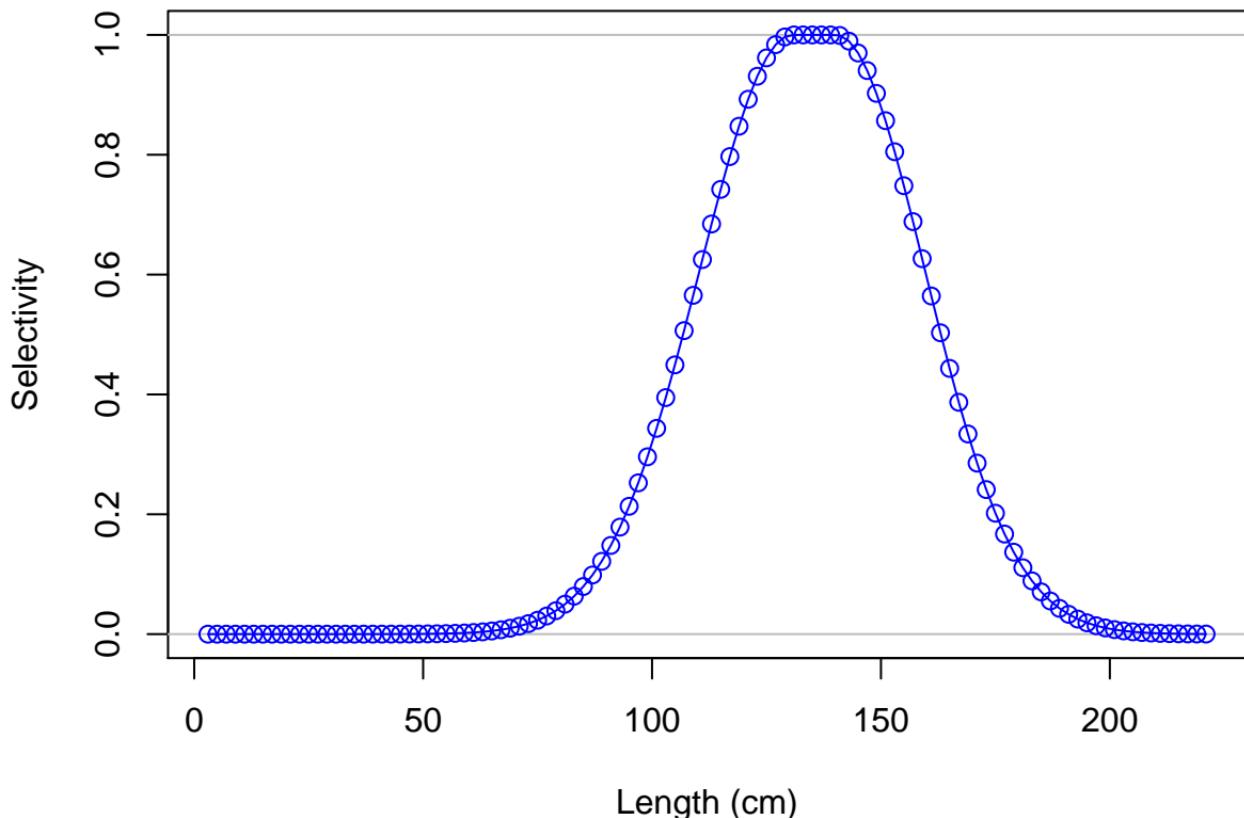
Female ending year selectivity for S7-LLc_S_w



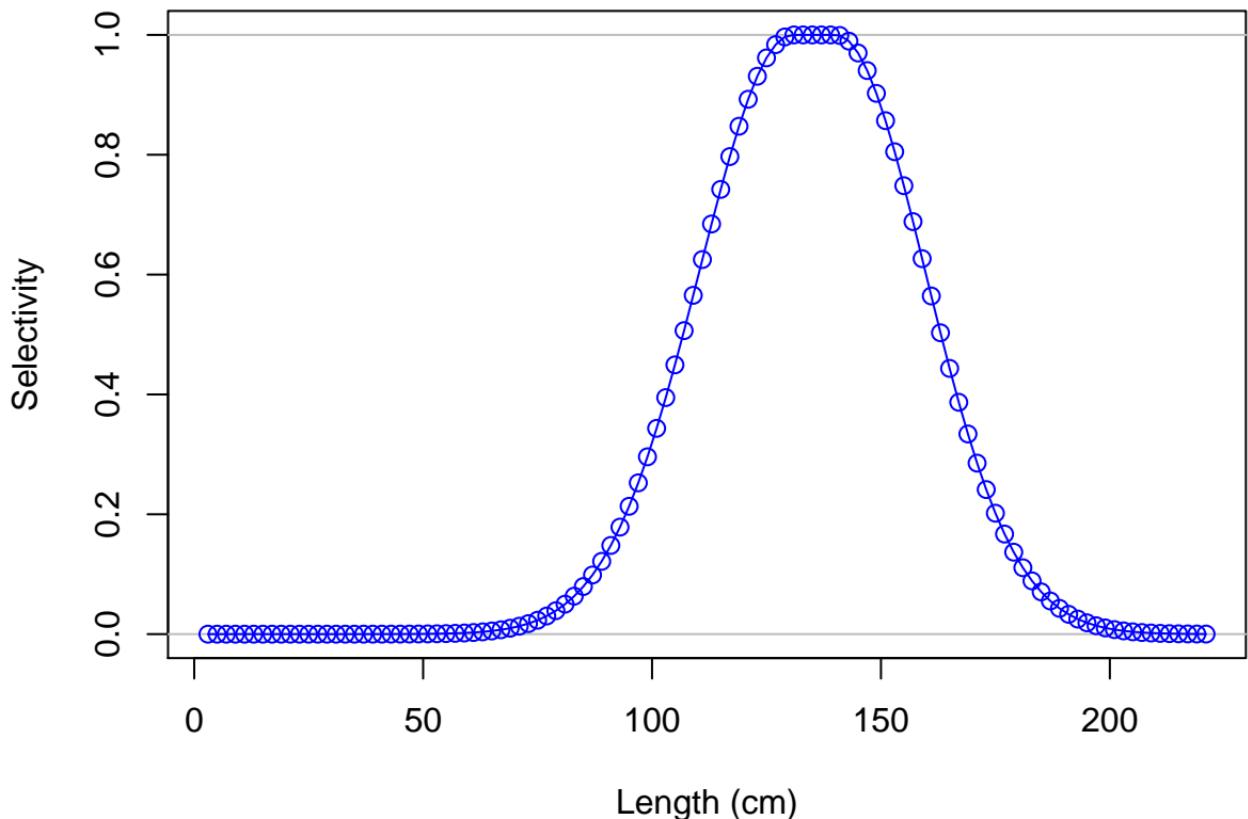
Male ending year selectivity for S7-LLc_S_w



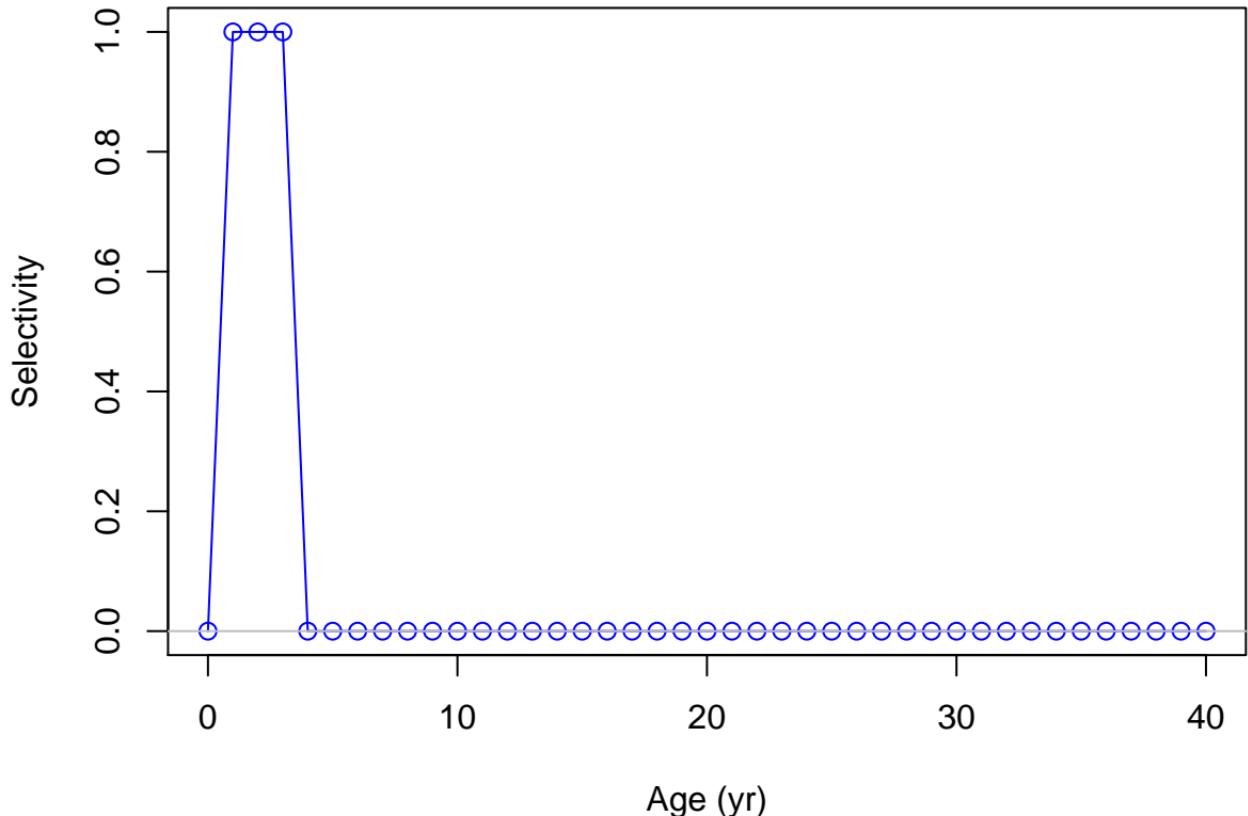
Female ending year selectivity for S8-LLc_I_w



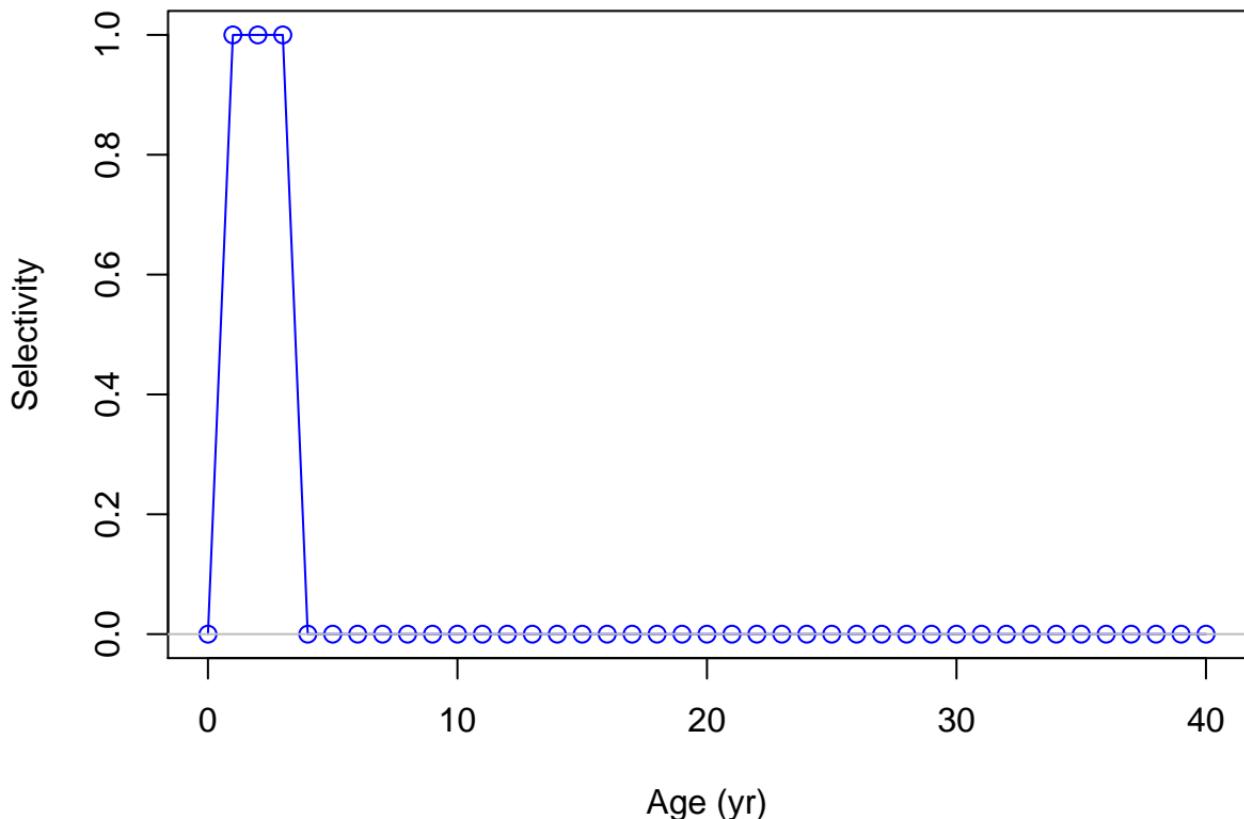
Male ending year selectivity for S8-LLc_I_w



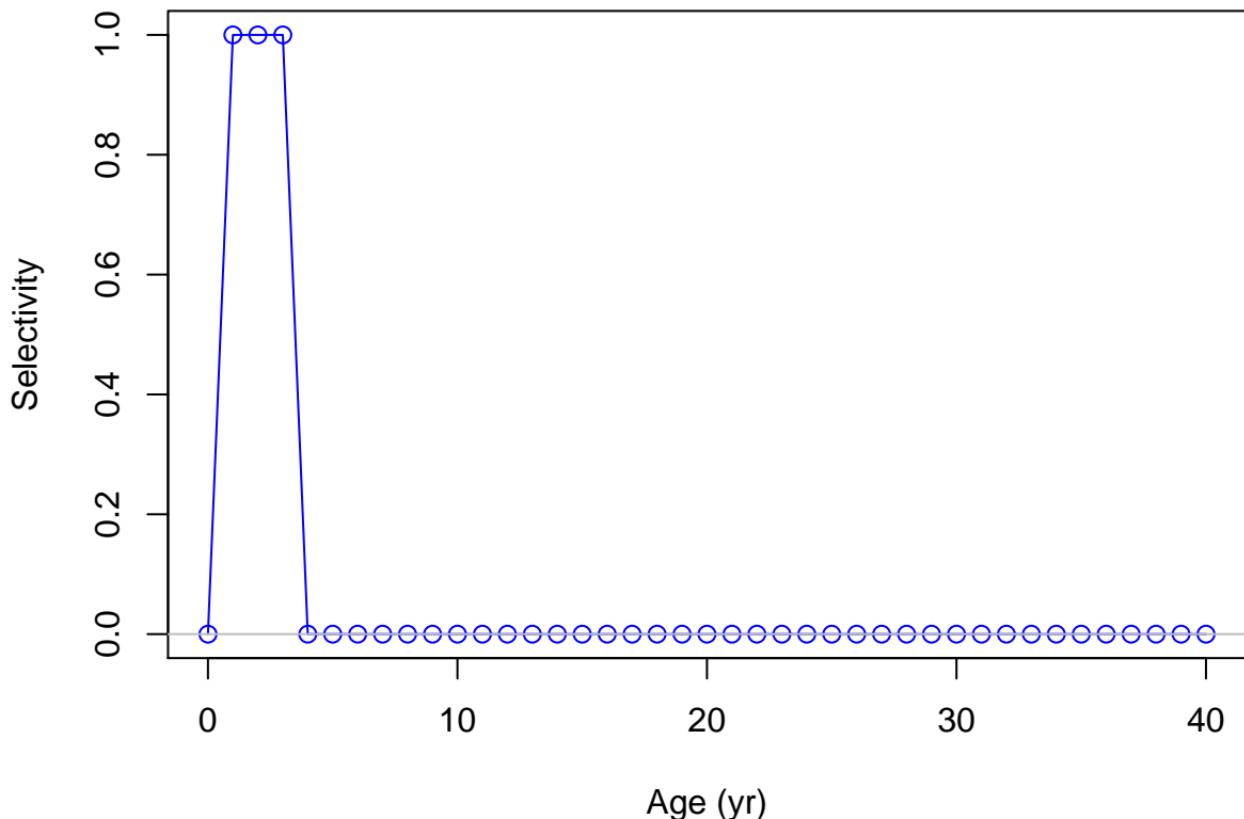
Female ending year selectivity for F8-OBJ_S_disc



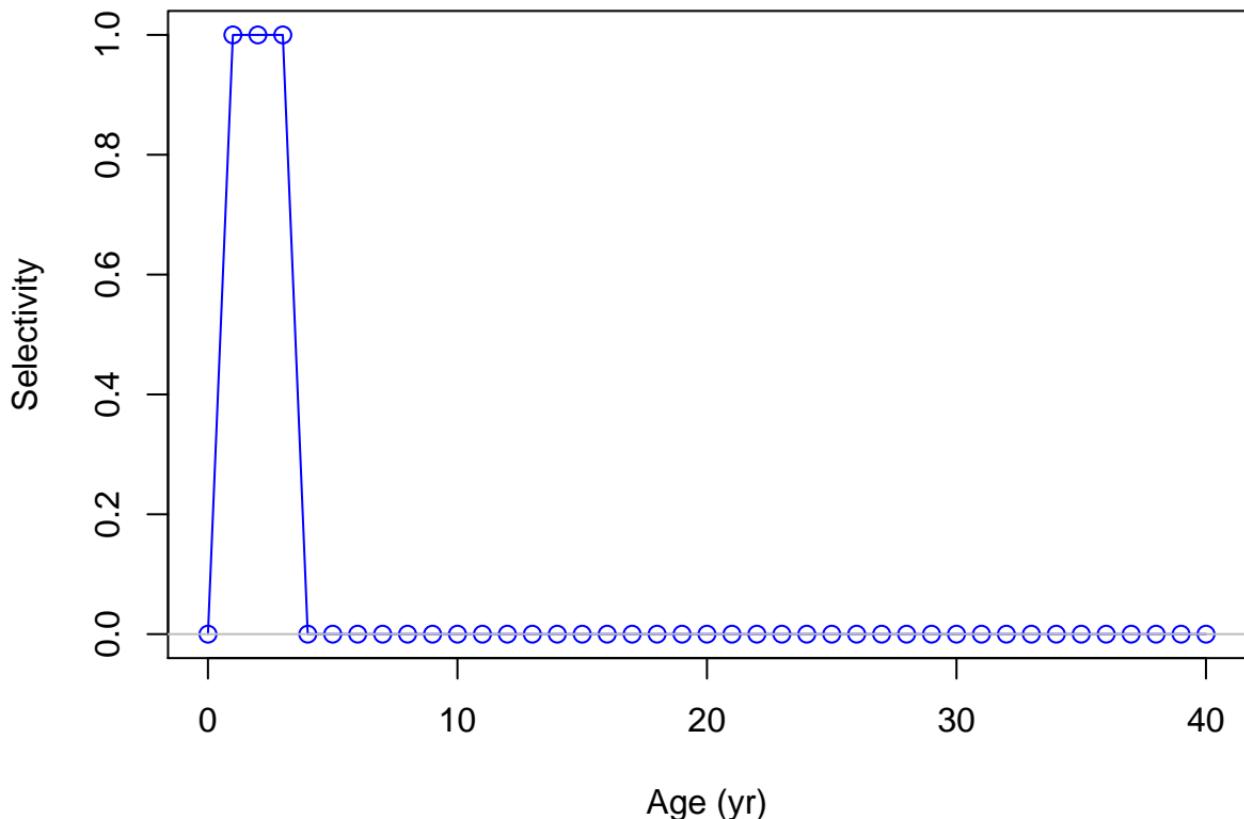
Male ending year selectivity for F8-OBJ_S_disc



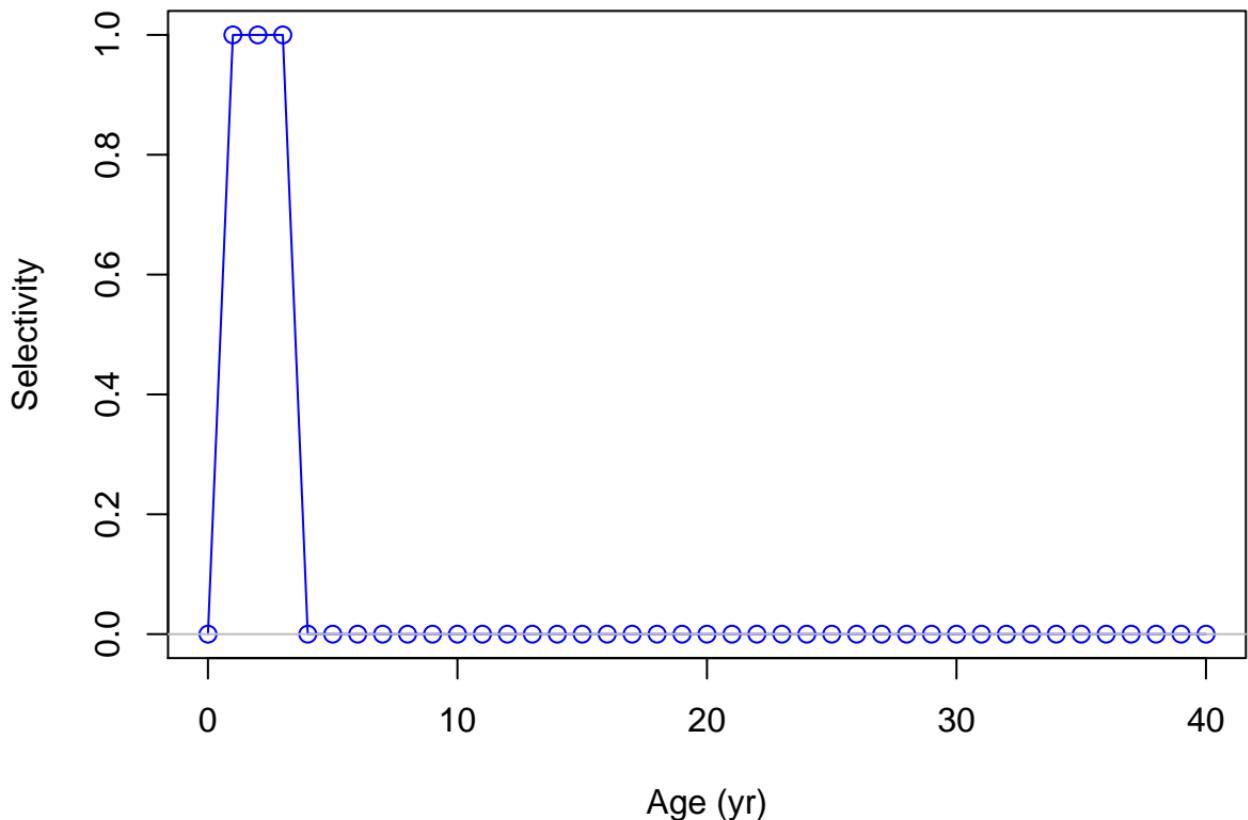
Female ending year selectivity for F9–OBJ_C_disc



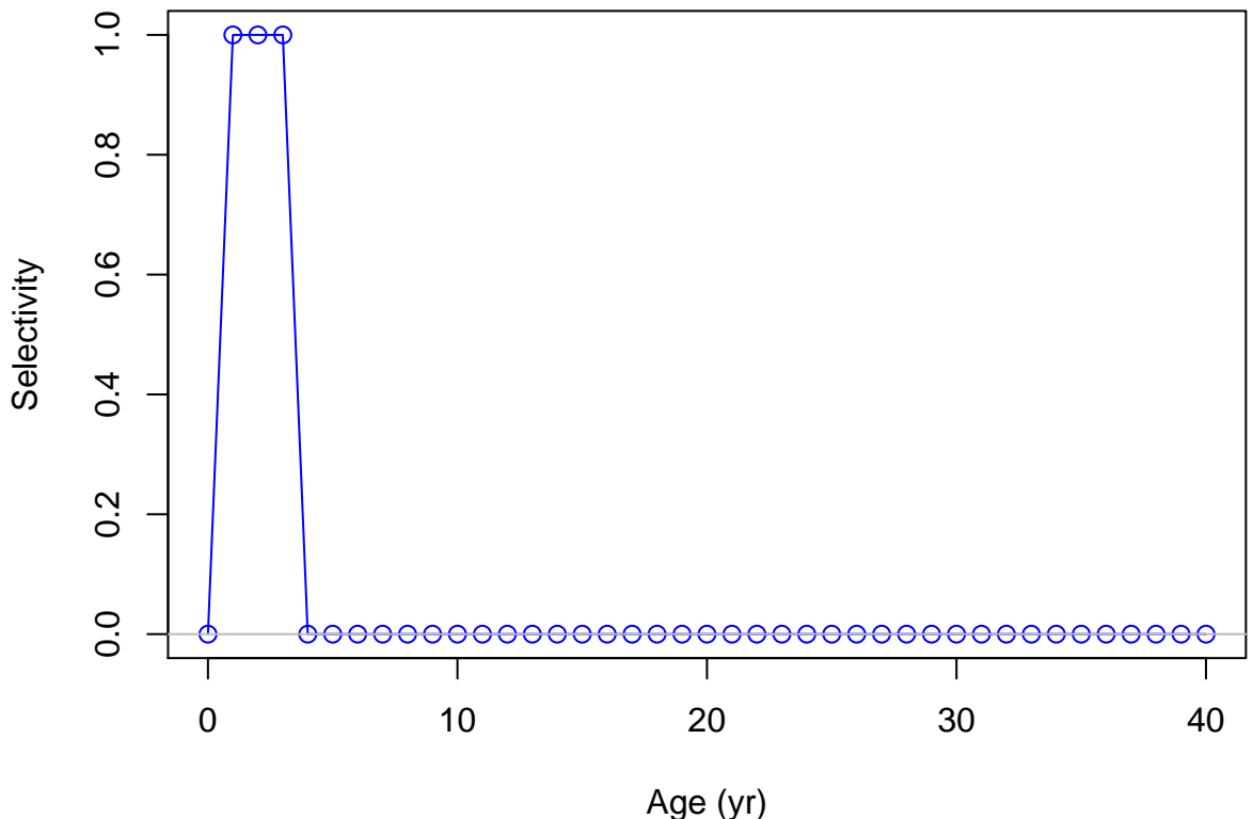
Male ending year selectivity for F9–OBJ_C_disc



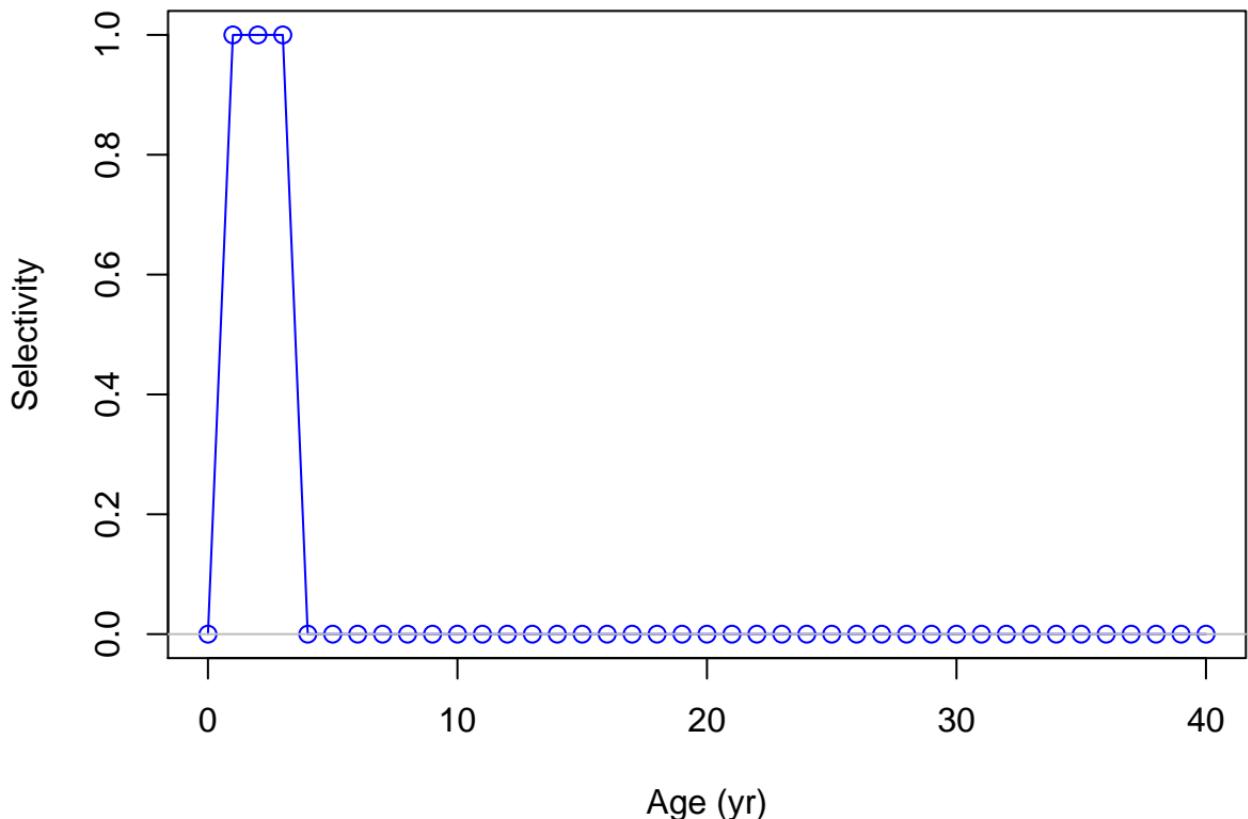
Female ending year selectivity for F10-OBJ_I_disc



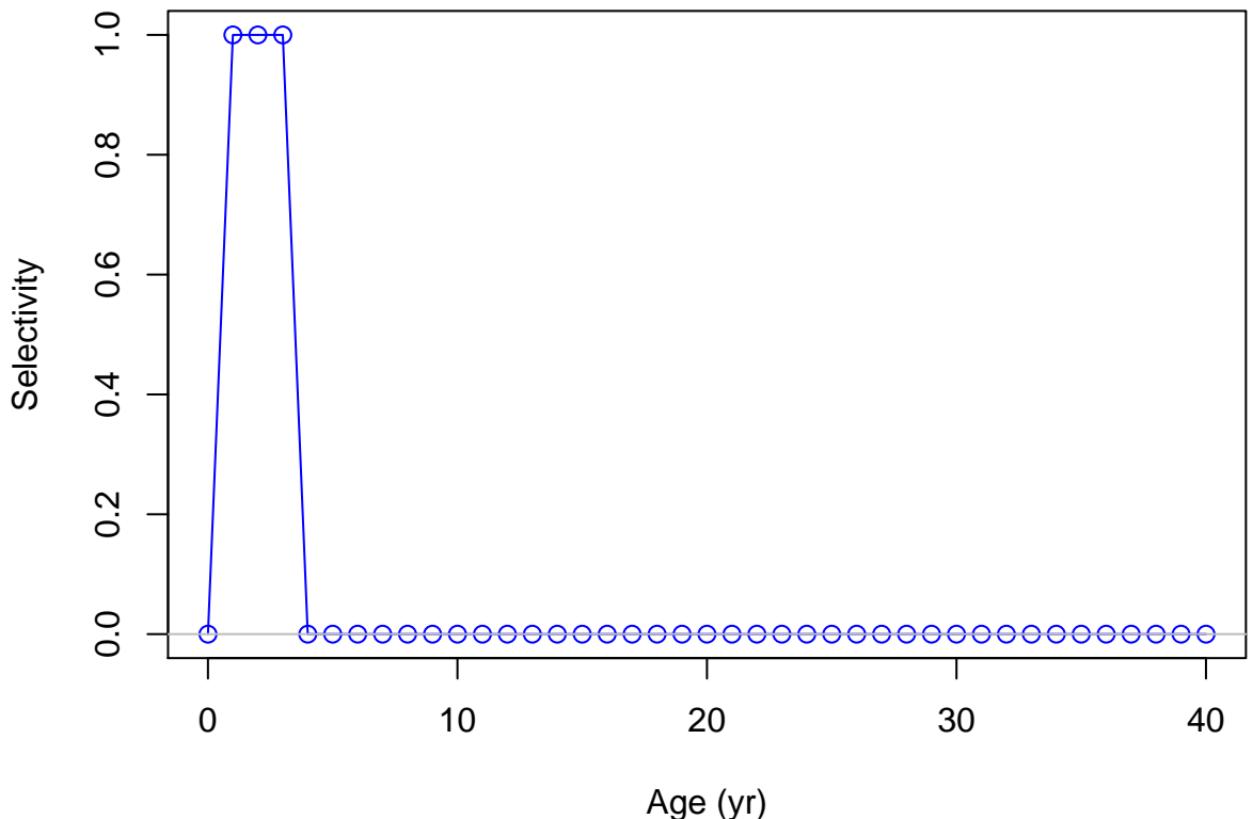
Male ending year selectivity for F10-OBJ_I_disc



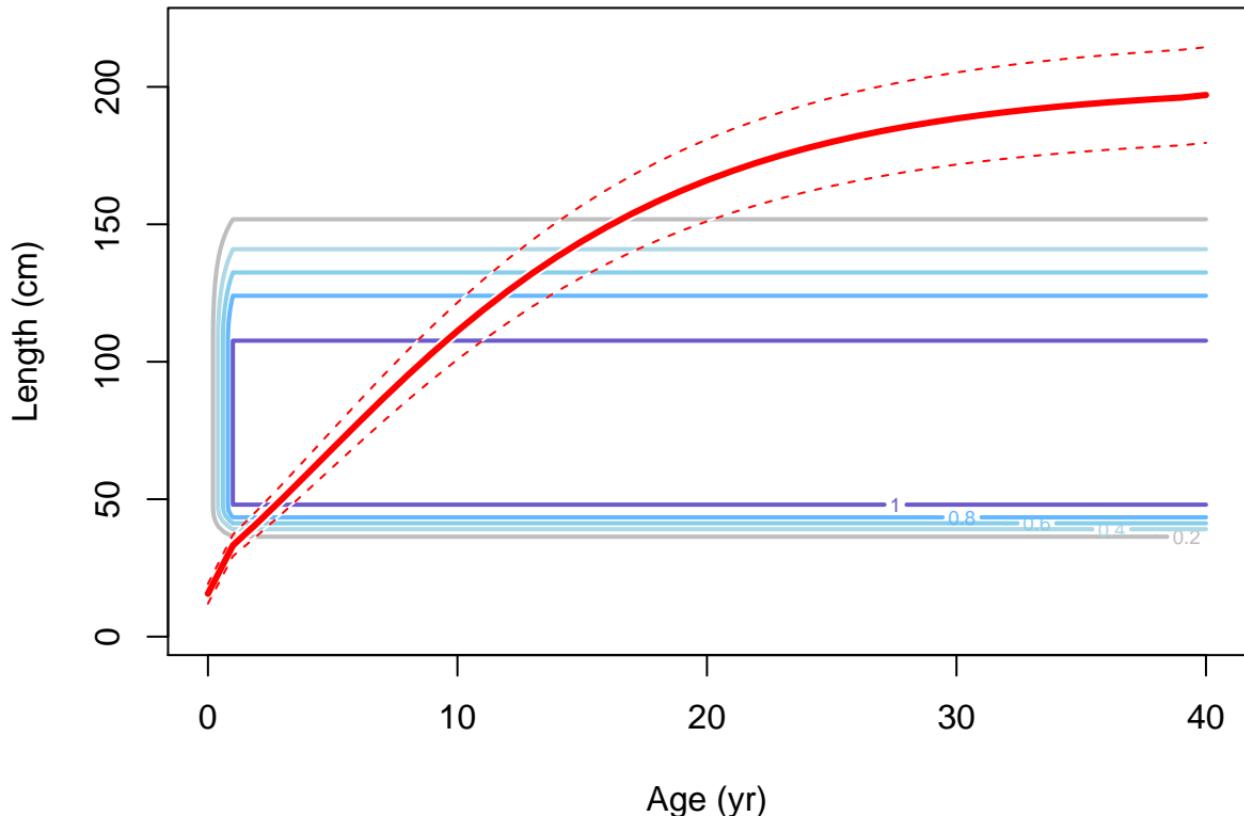
Female ending year selectivity for F11-OBJ_N_disc



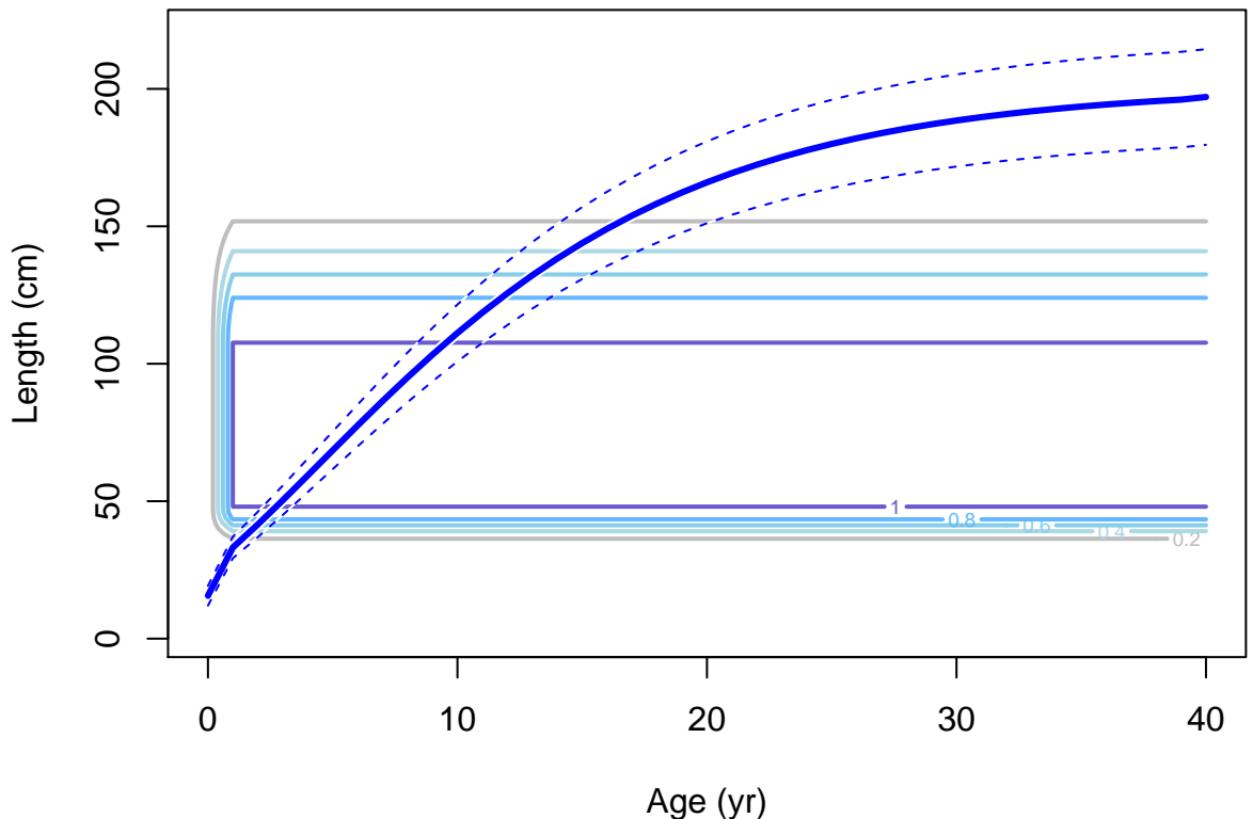
Male ending year selectivity for F11–OBJ_N_disc



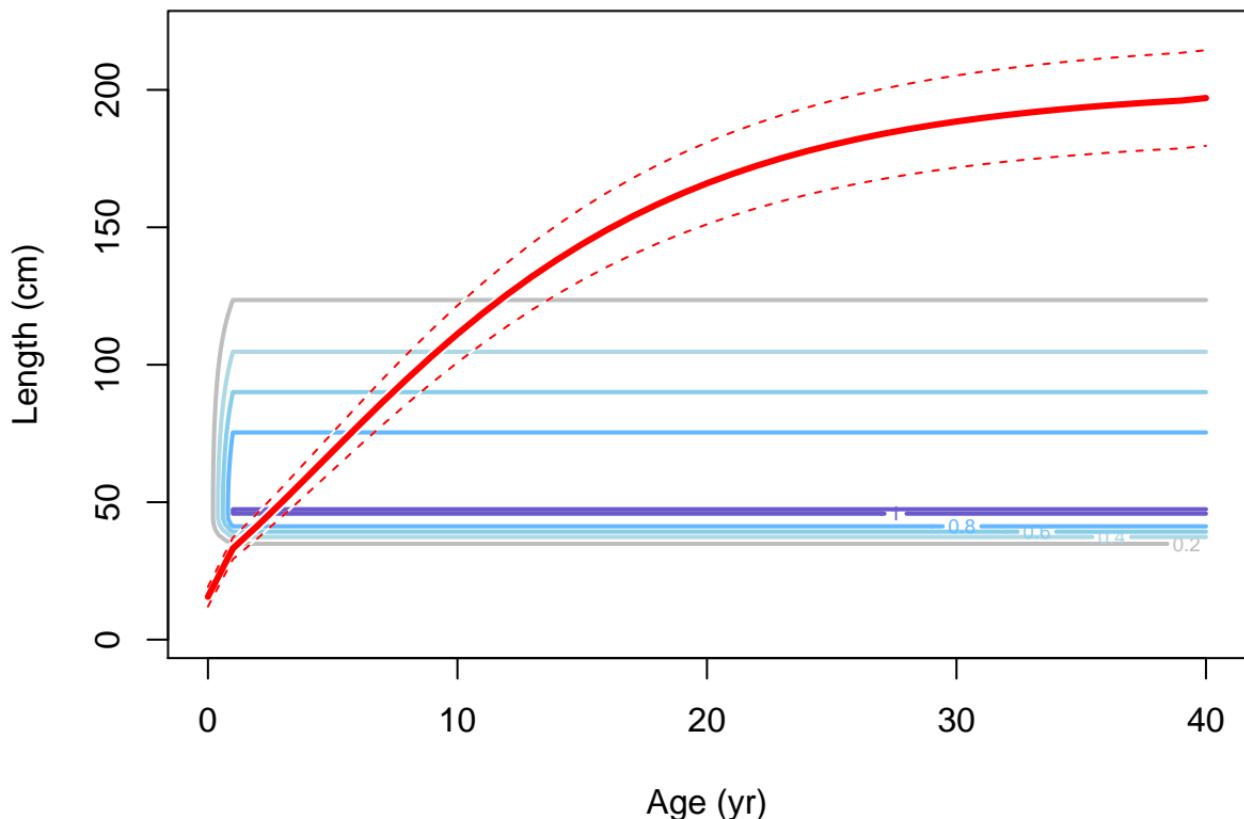
Female ending year selectivity and growth for F1–OBJ_early



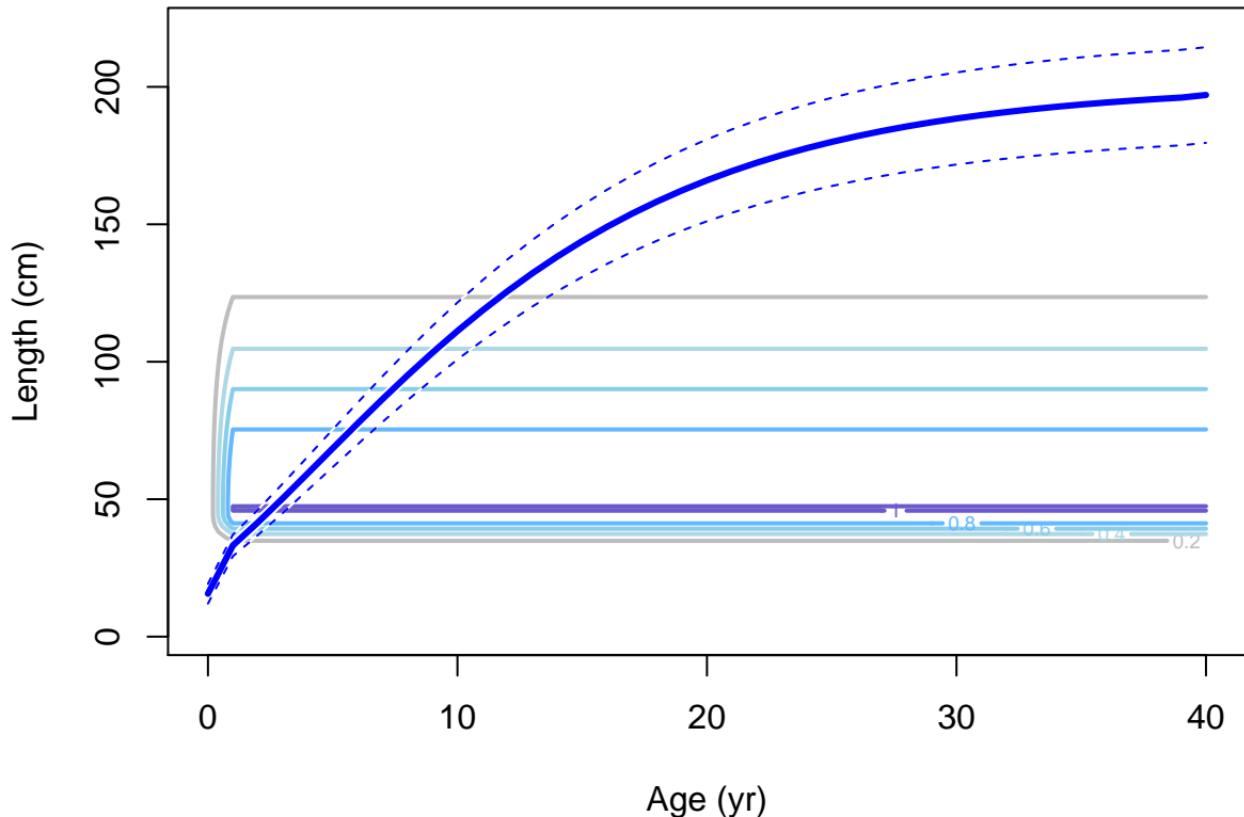
Male ending year selectivity and growth for F1–OBJ_early



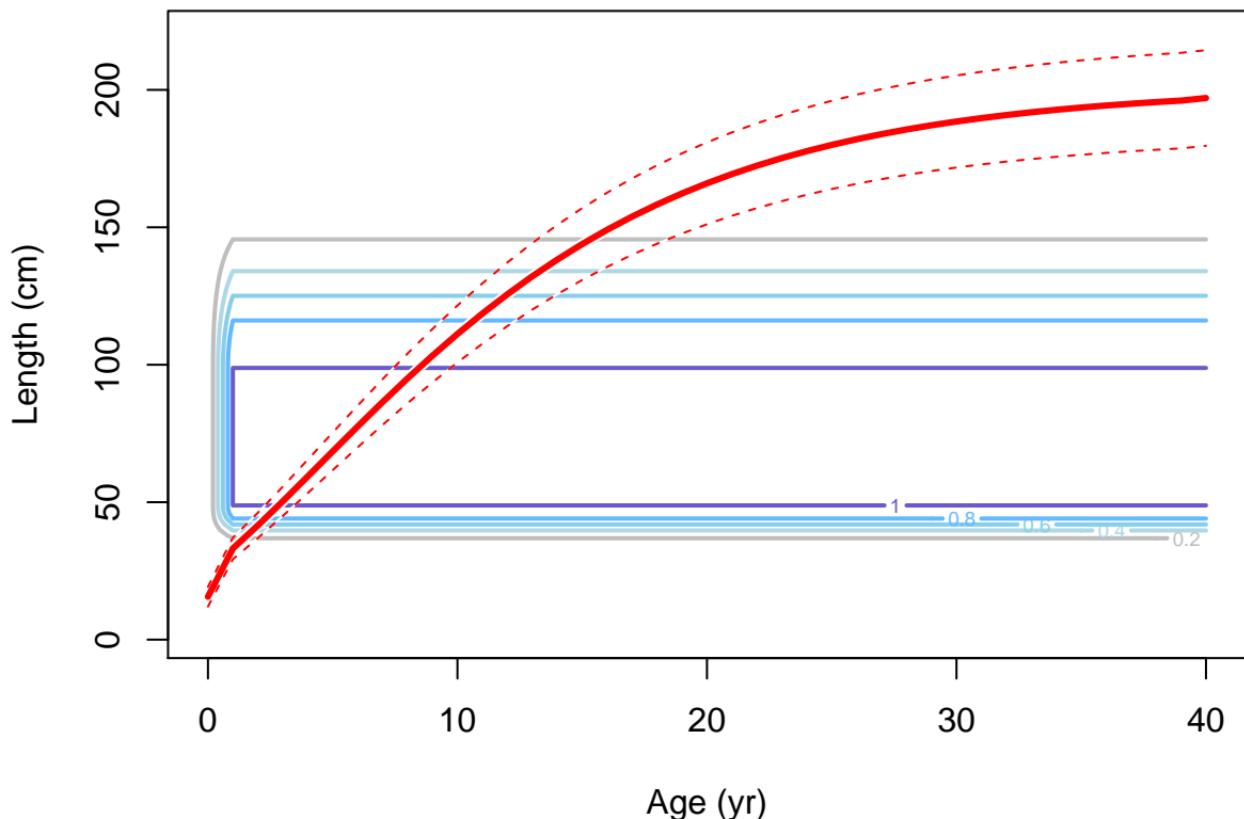
Female ending year selectivity and growth for F2-OBJ_S



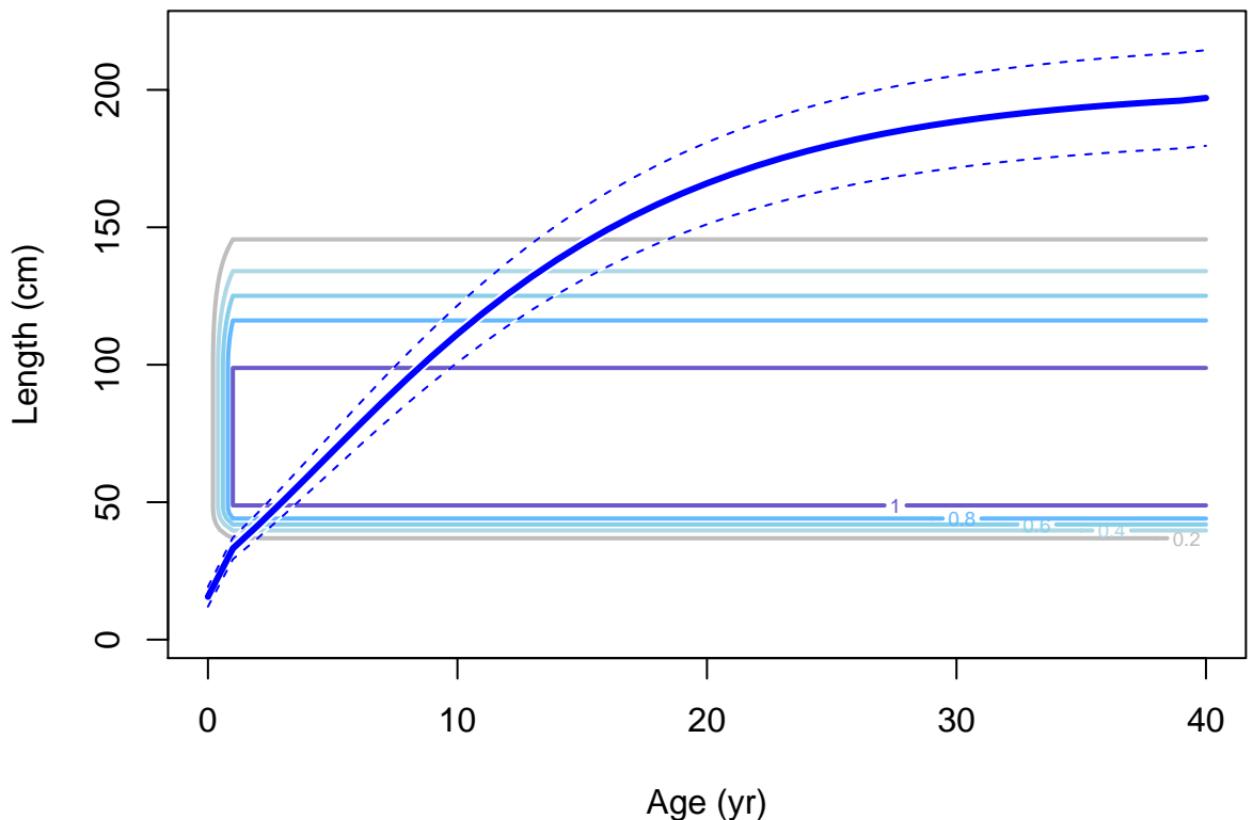
Male ending year selectivity and growth for F2-OBJ_S



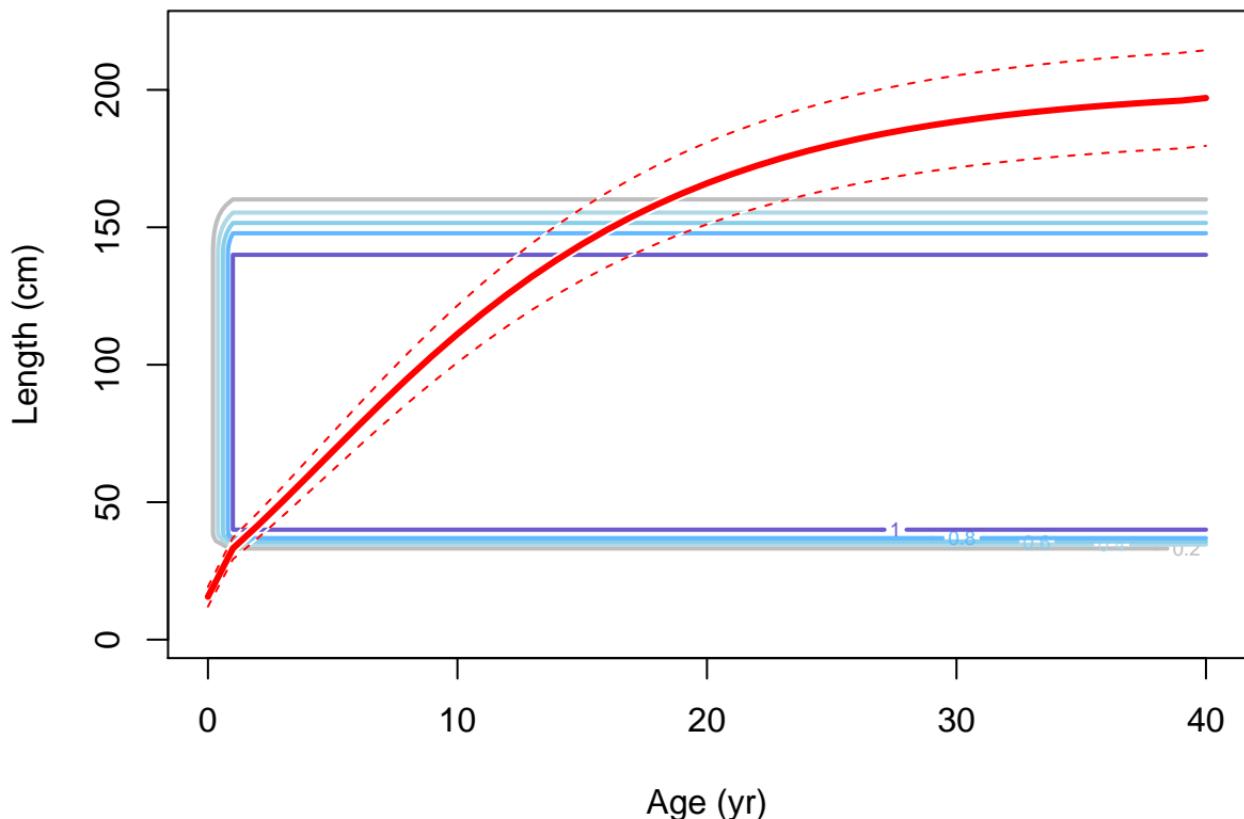
Female ending year selectivity and growth for F3–OBJ_C



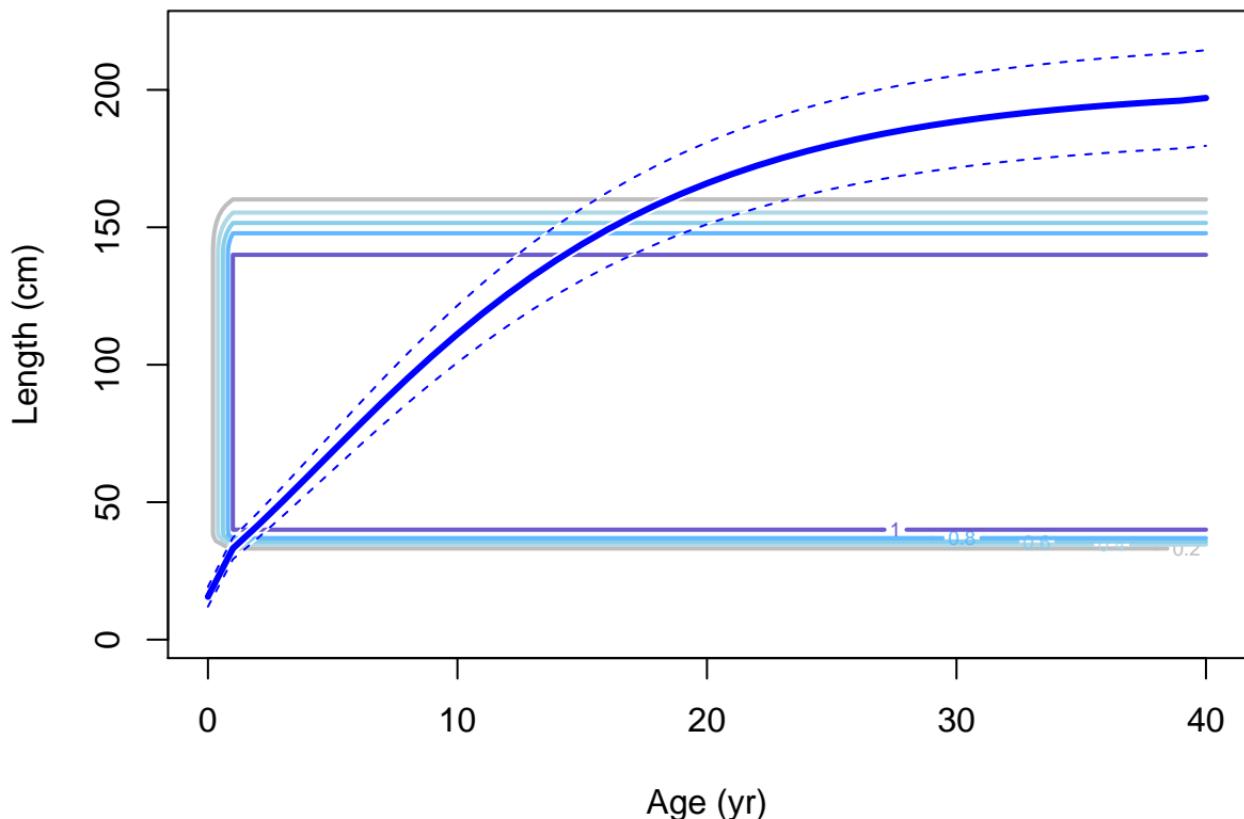
Male ending year selectivity and growth for F3–OBJ_C



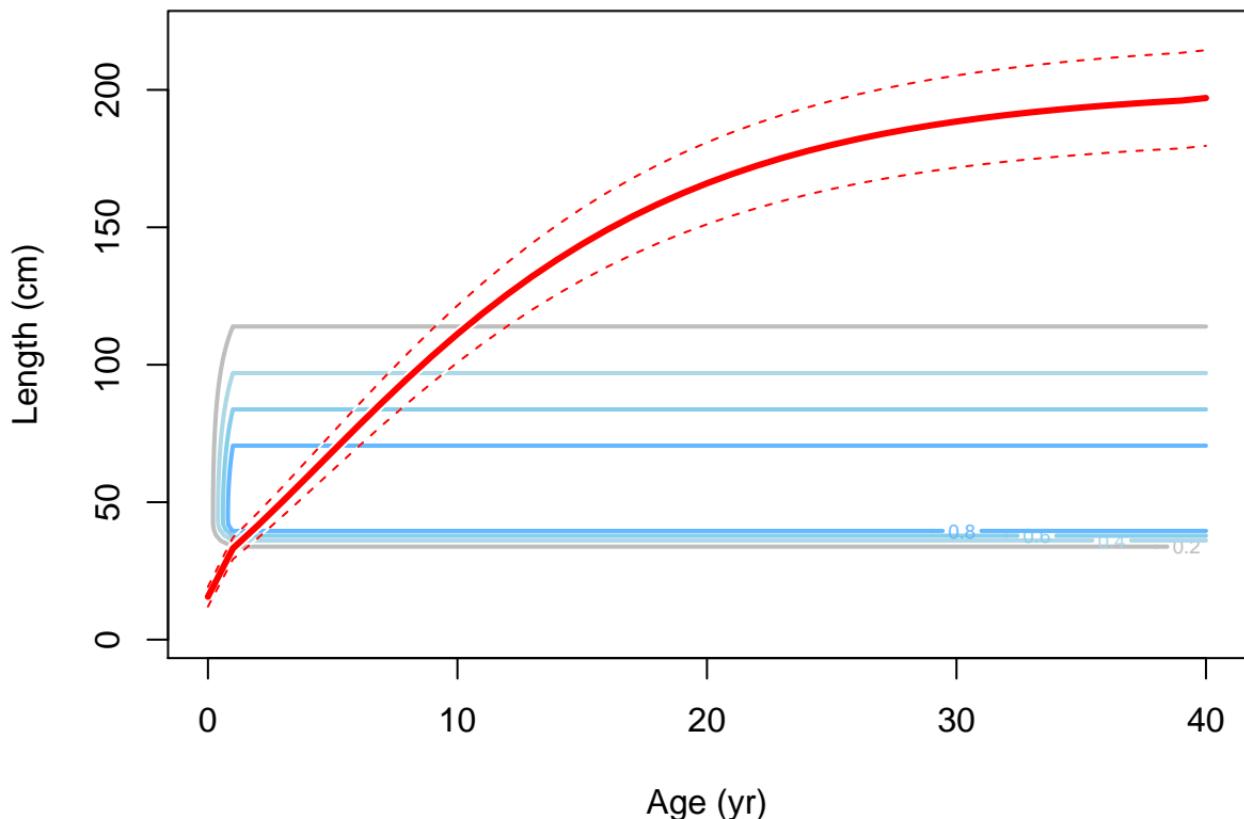
Female ending year selectivity and growth for F4–OBJ_I



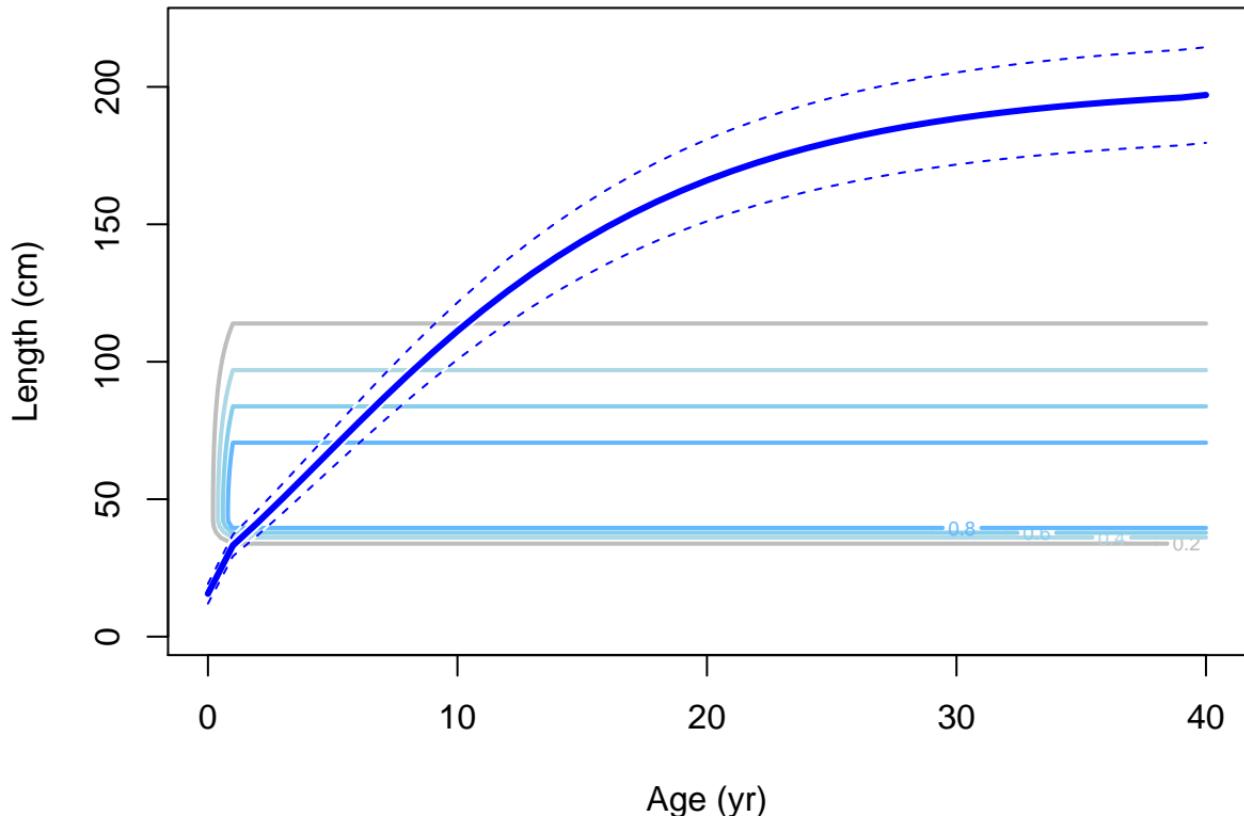
Male ending year selectivity and growth for F4–OBJ_I



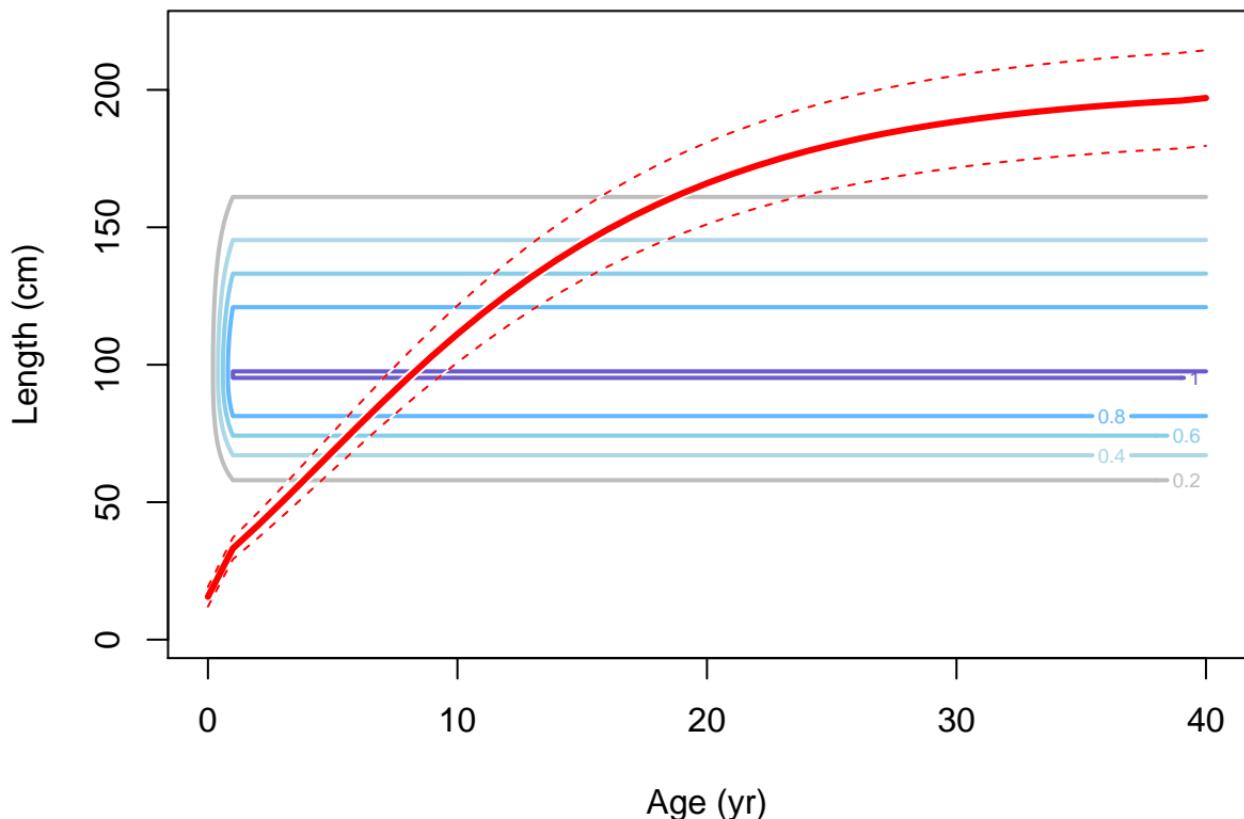
Female ending year selectivity and growth for F5–OBJ_N



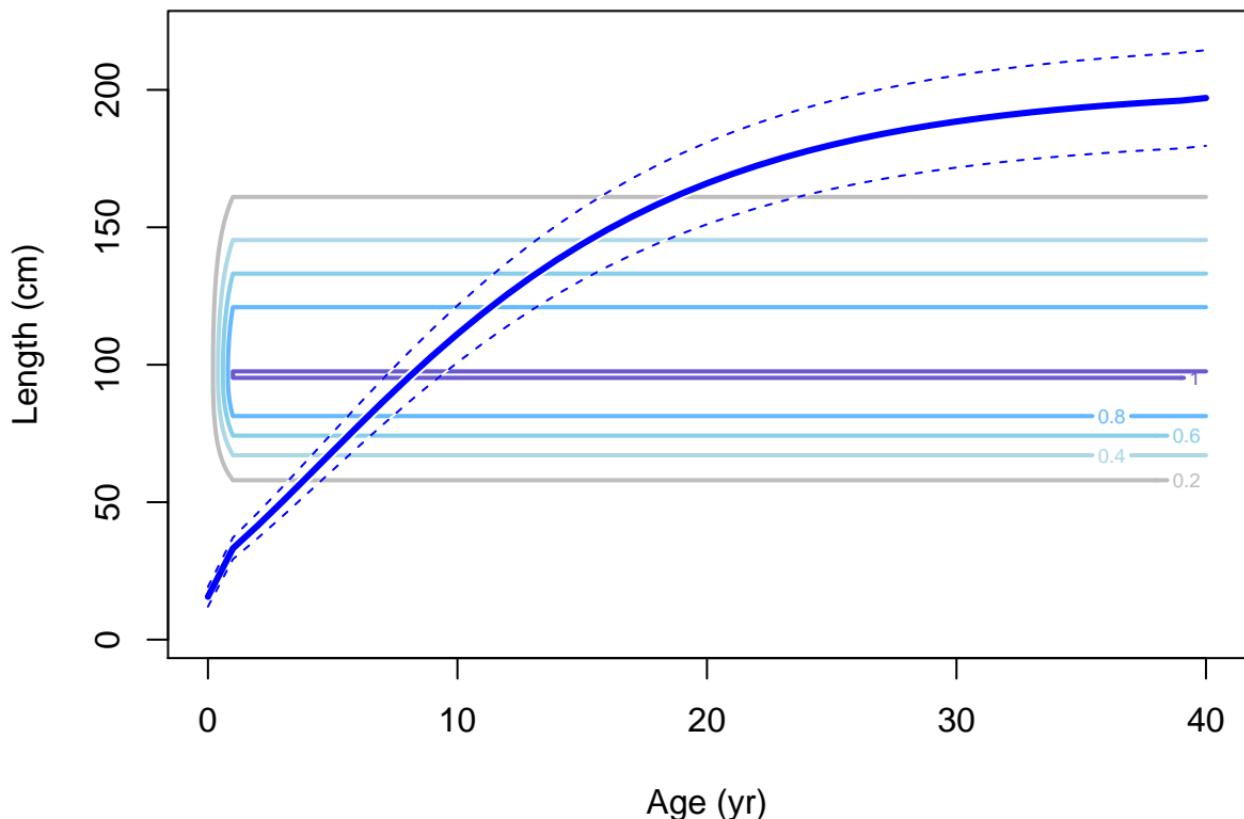
Male ending year selectivity and growth for F5-OBJ_N



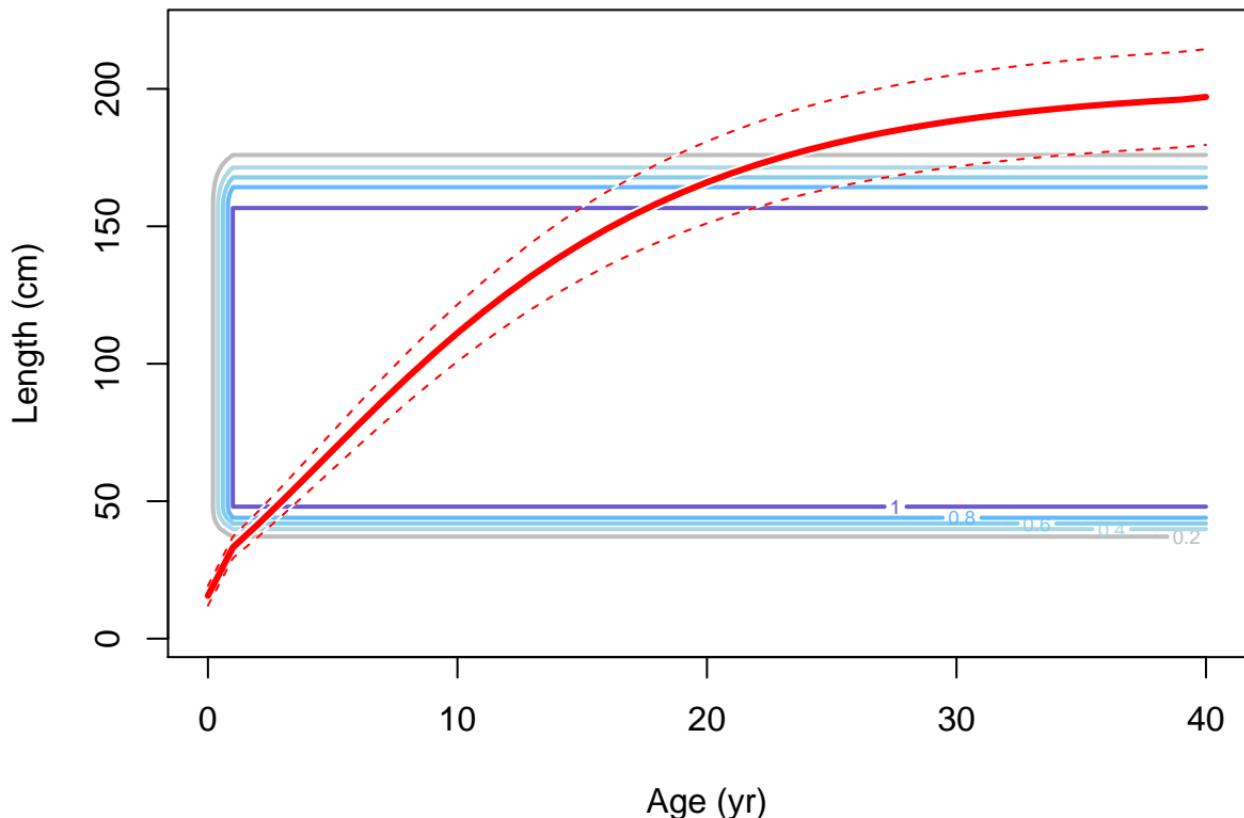
Female ending year selectivity and growth for F6-NOA-DEL_early



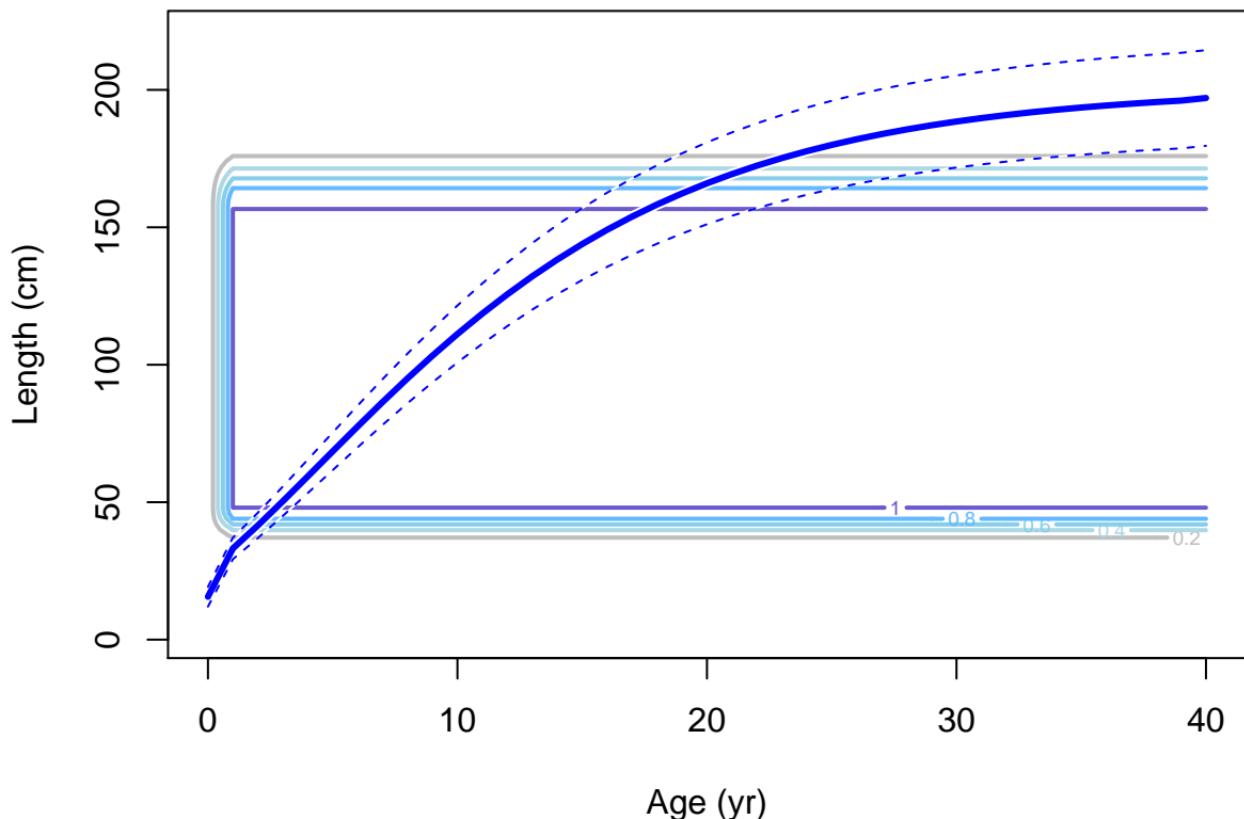
Male ending year selectivity and growth for F6–NOA–DEL_early



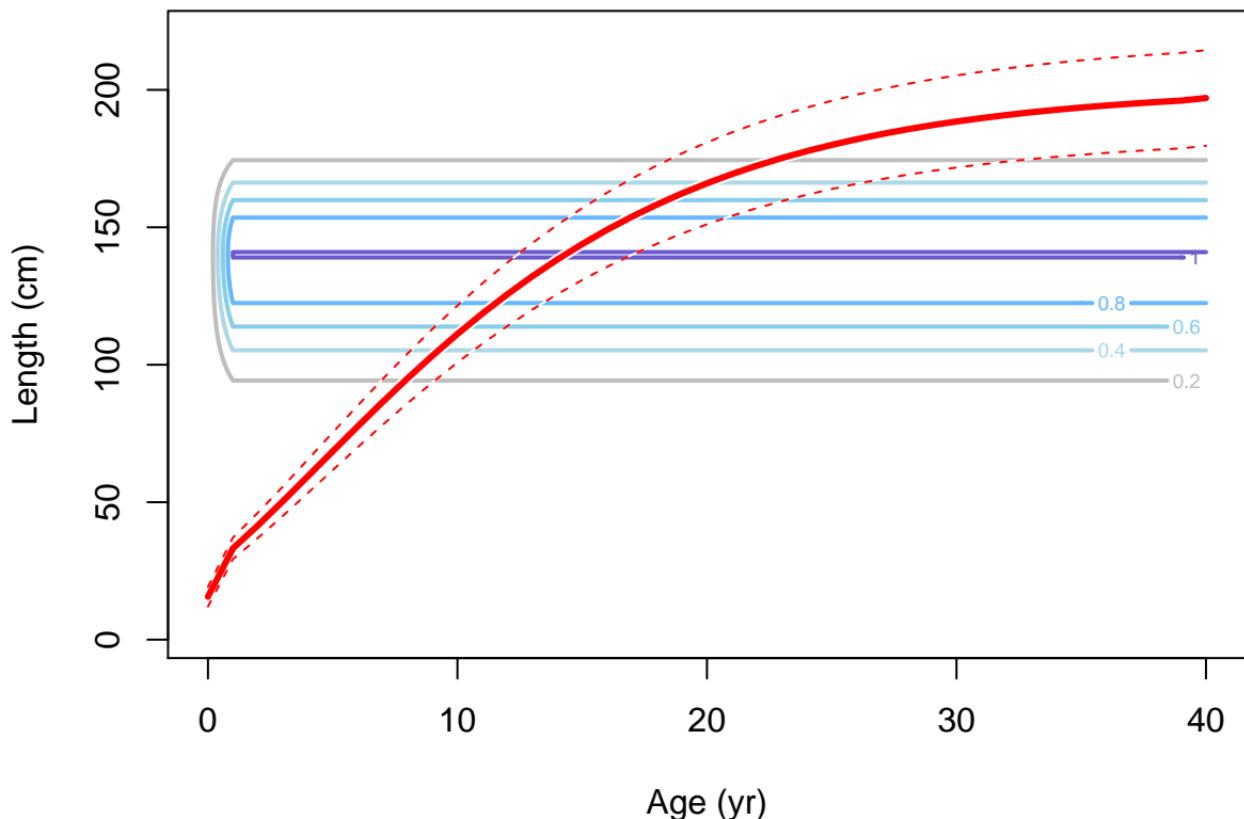
Female ending year selectivity and growth for F7–NOA–DEL_late



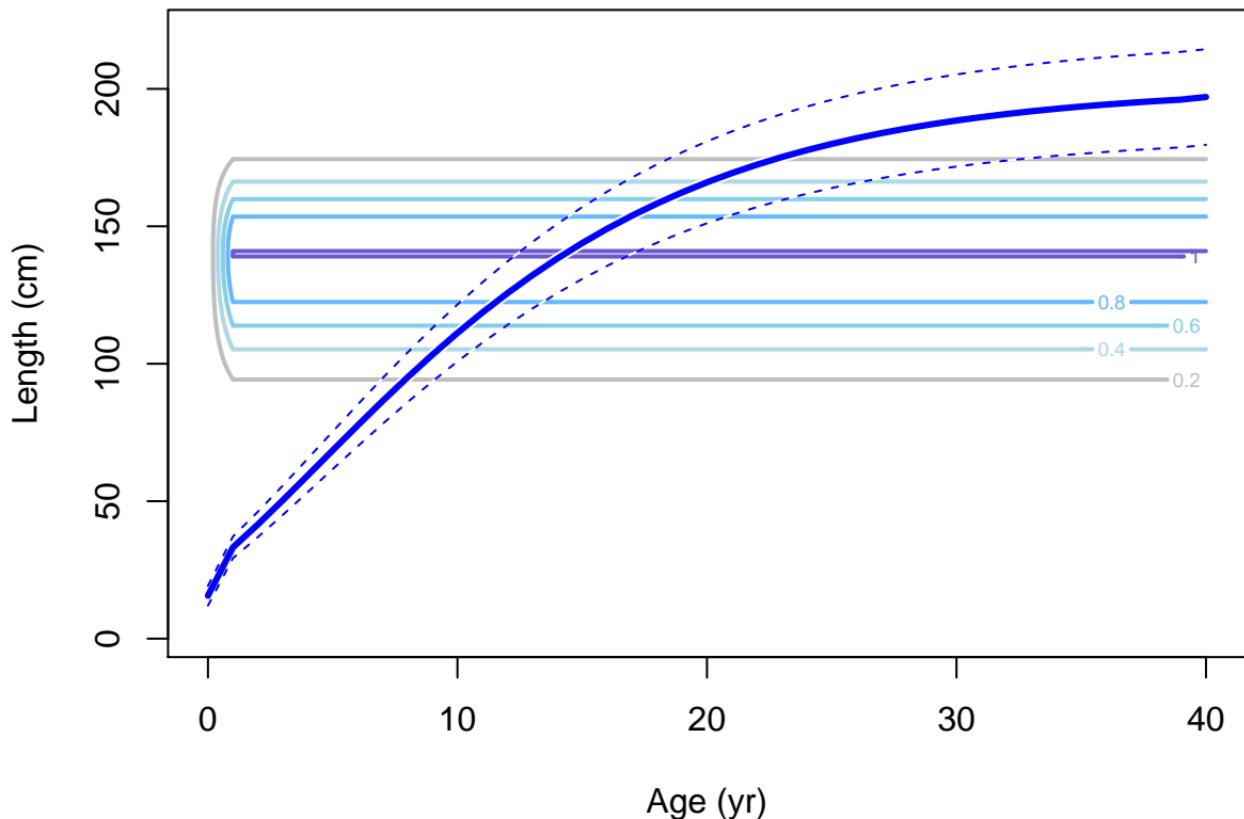
Male ending year selectivity and growth for F7-NOA-DEL_late



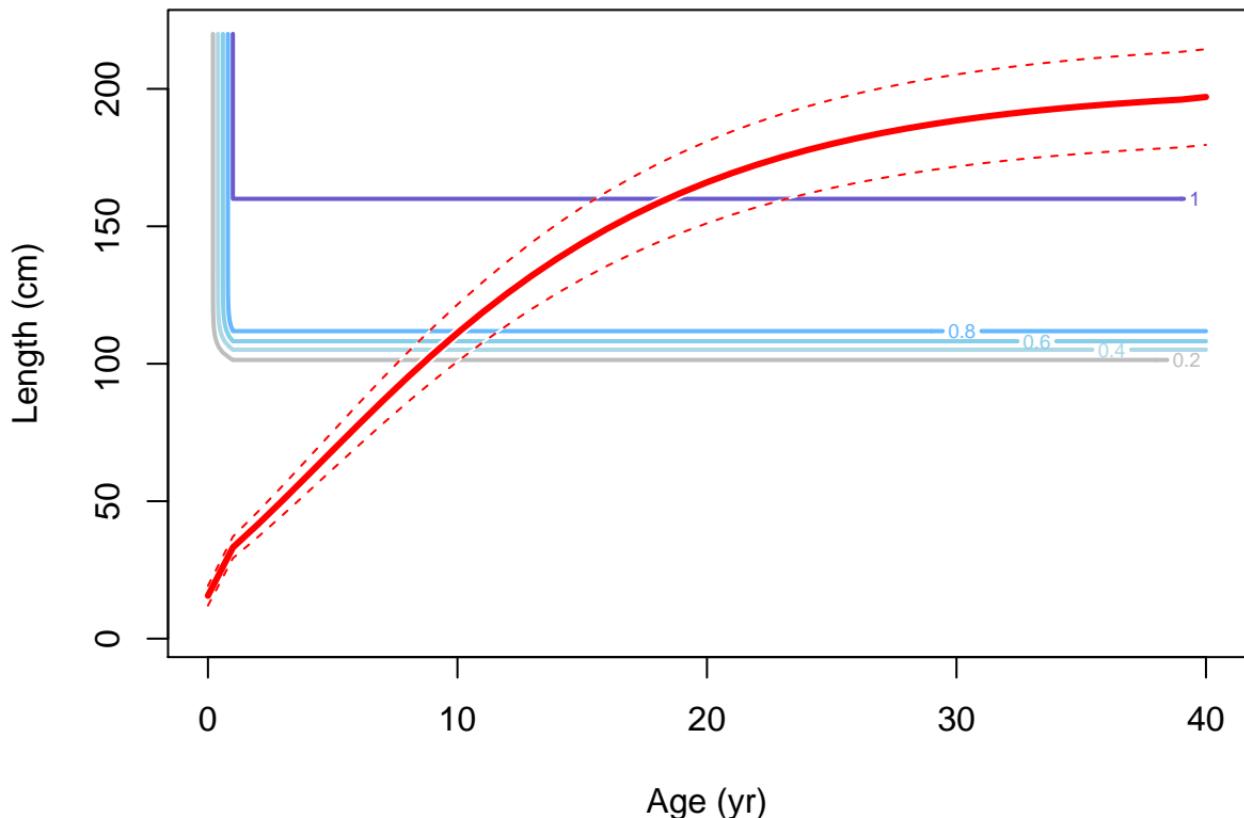
Female ending year selectivity and growth for F12-LL_N_num



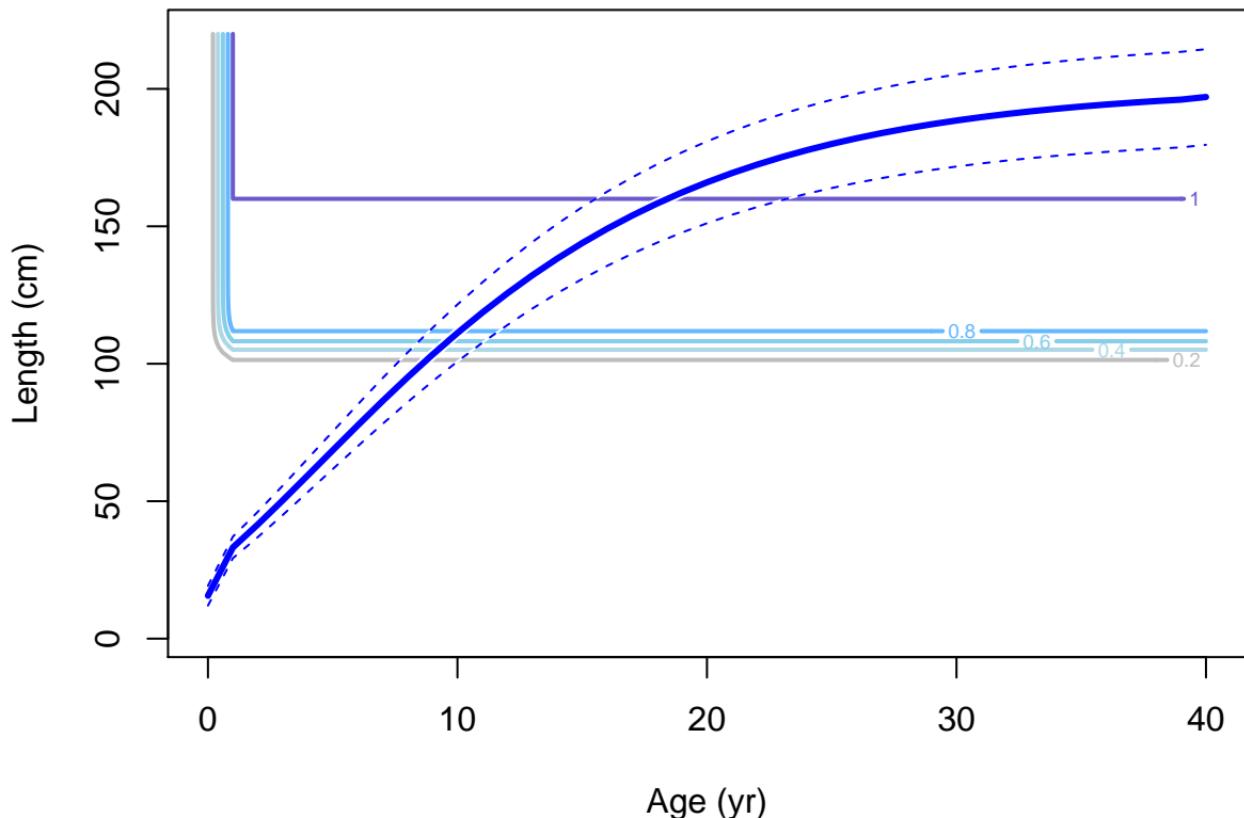
Male ending year selectivity and growth for F12-LL_N_num



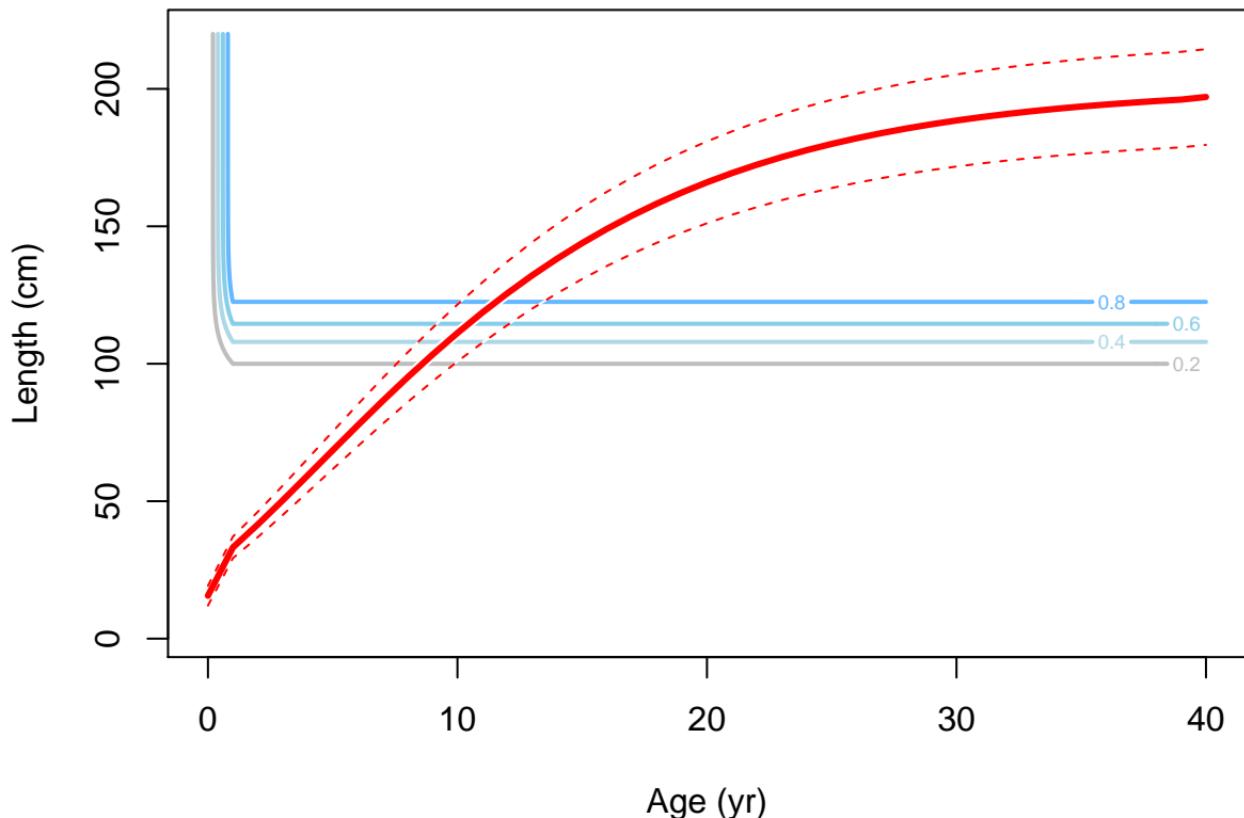
Female ending year selectivity and growth for F13–LL_C_num



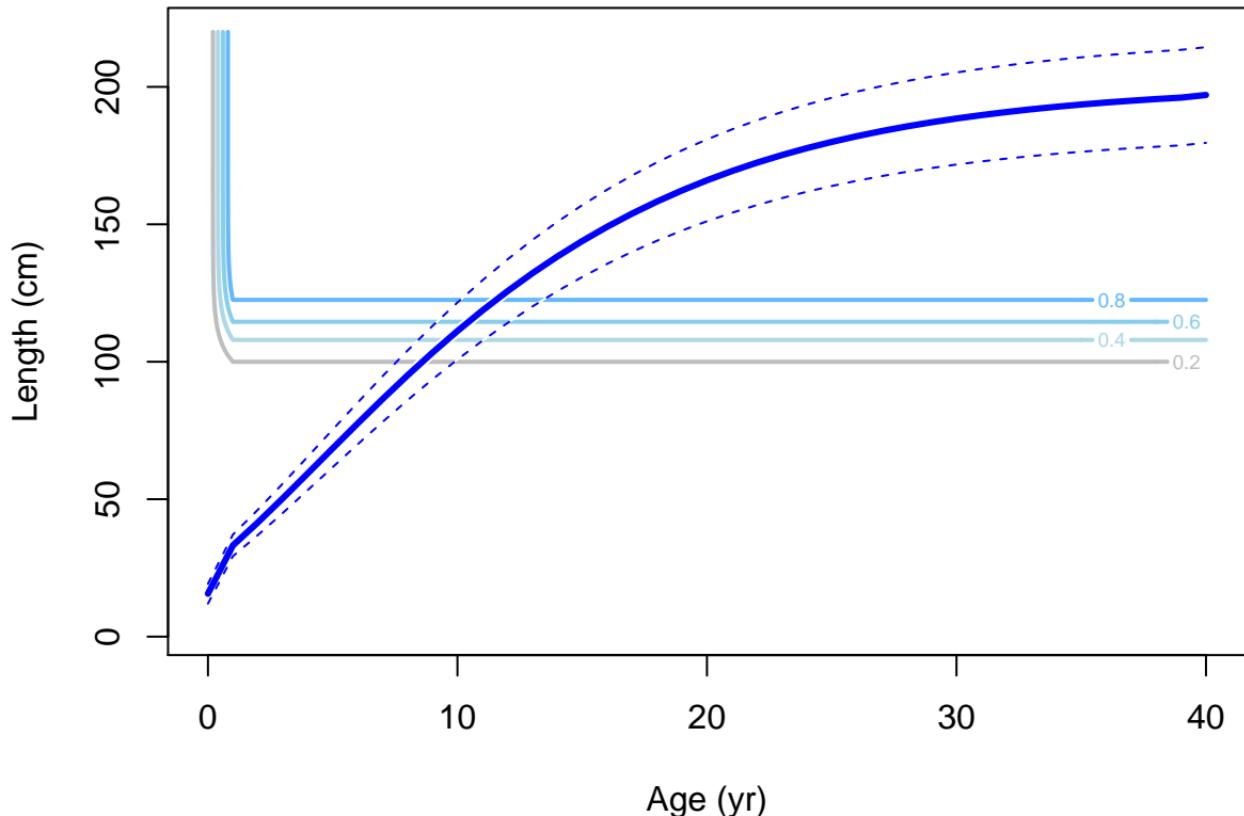
Male ending year selectivity and growth for F13-LL_C_num



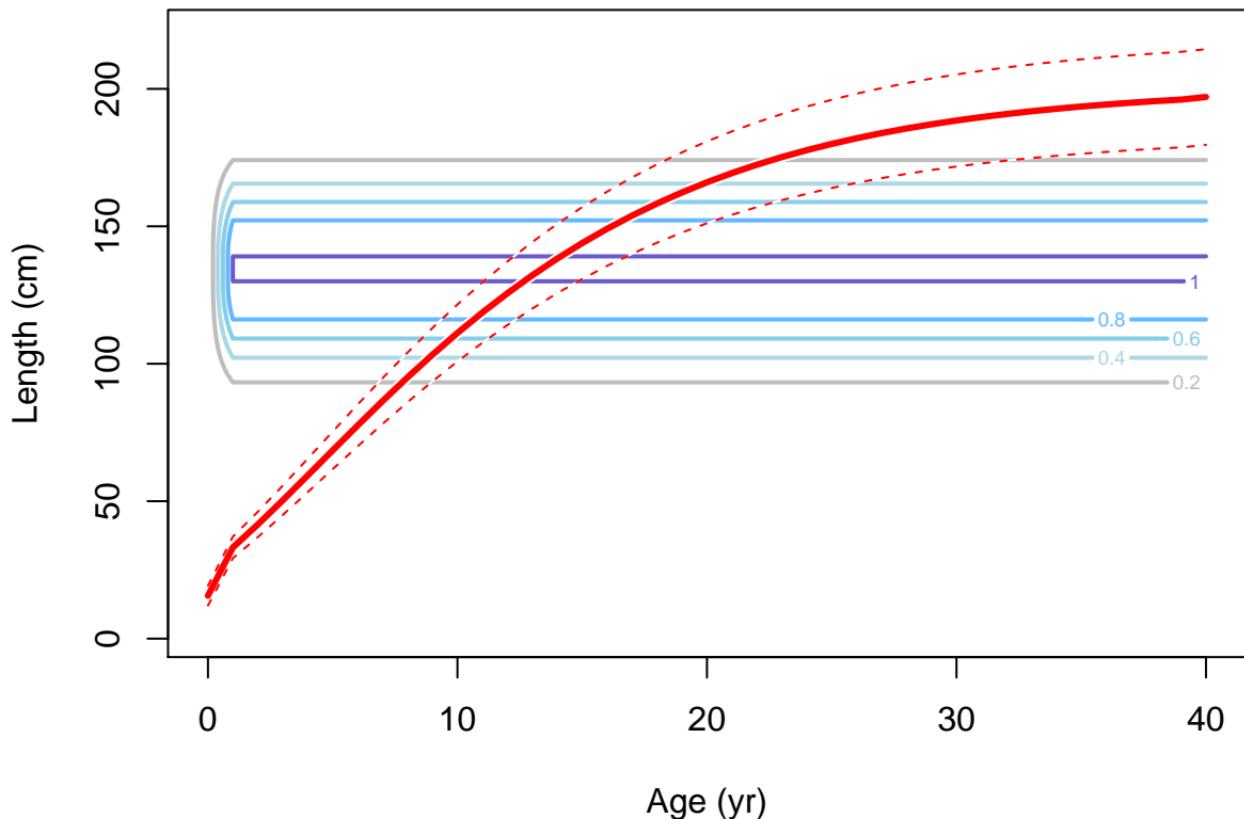
Female ending year selectivity and growth for F14-LL_S_num



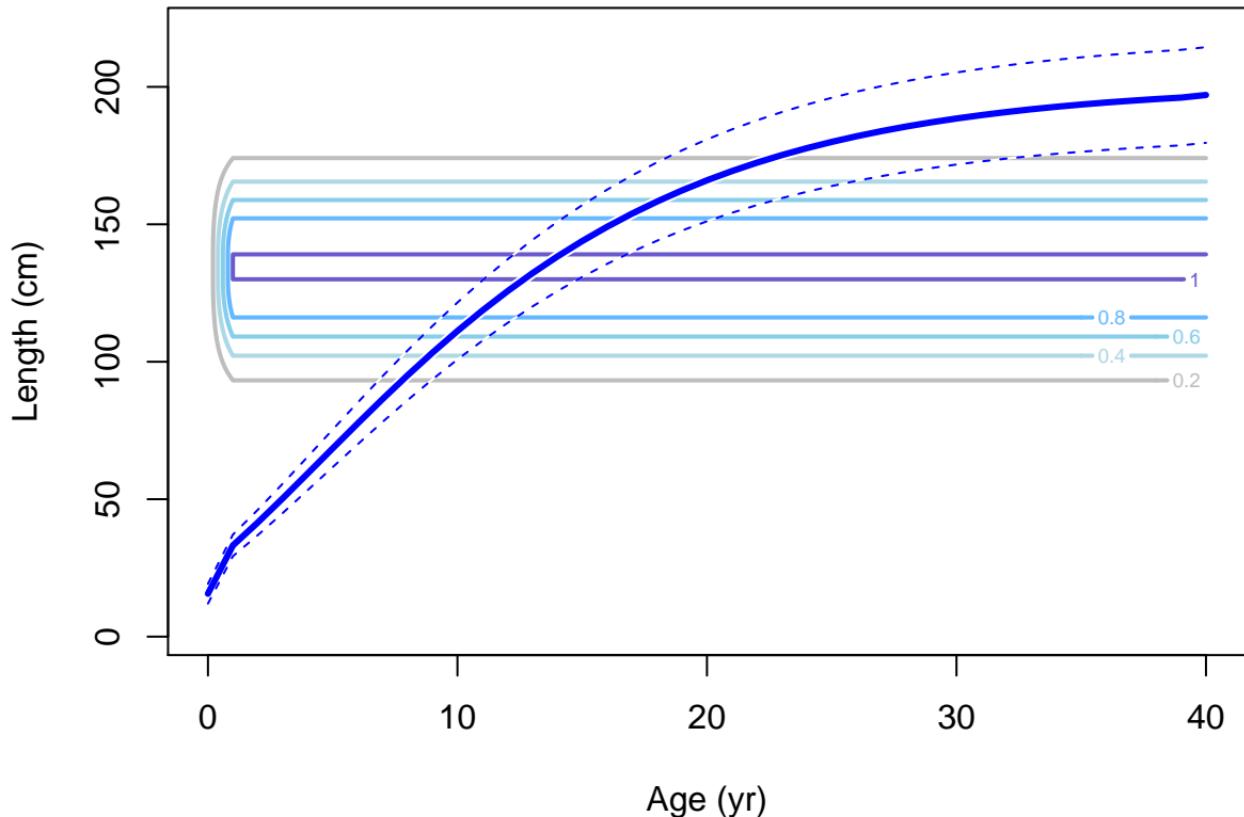
Male ending year selectivity and growth for F14-LL_S_num



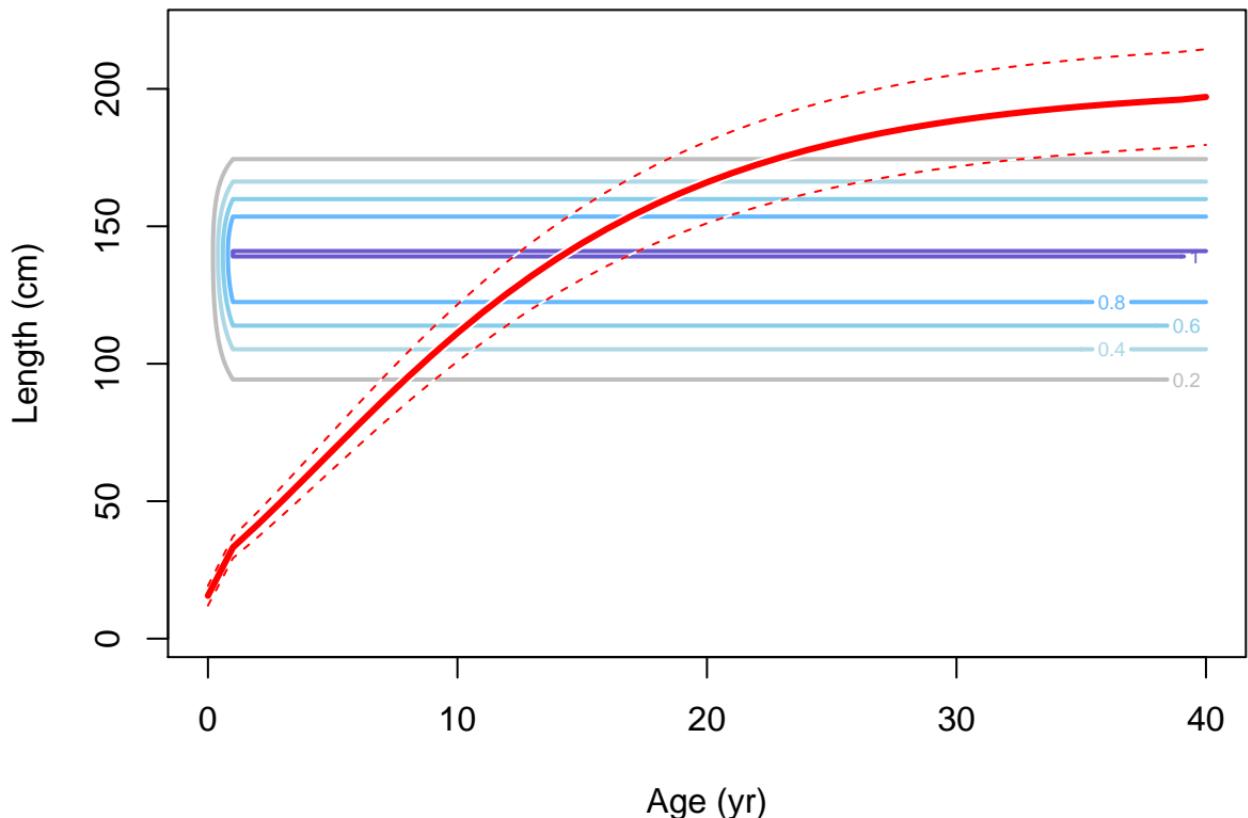
Female ending year selectivity and growth for F15-LL_I_num



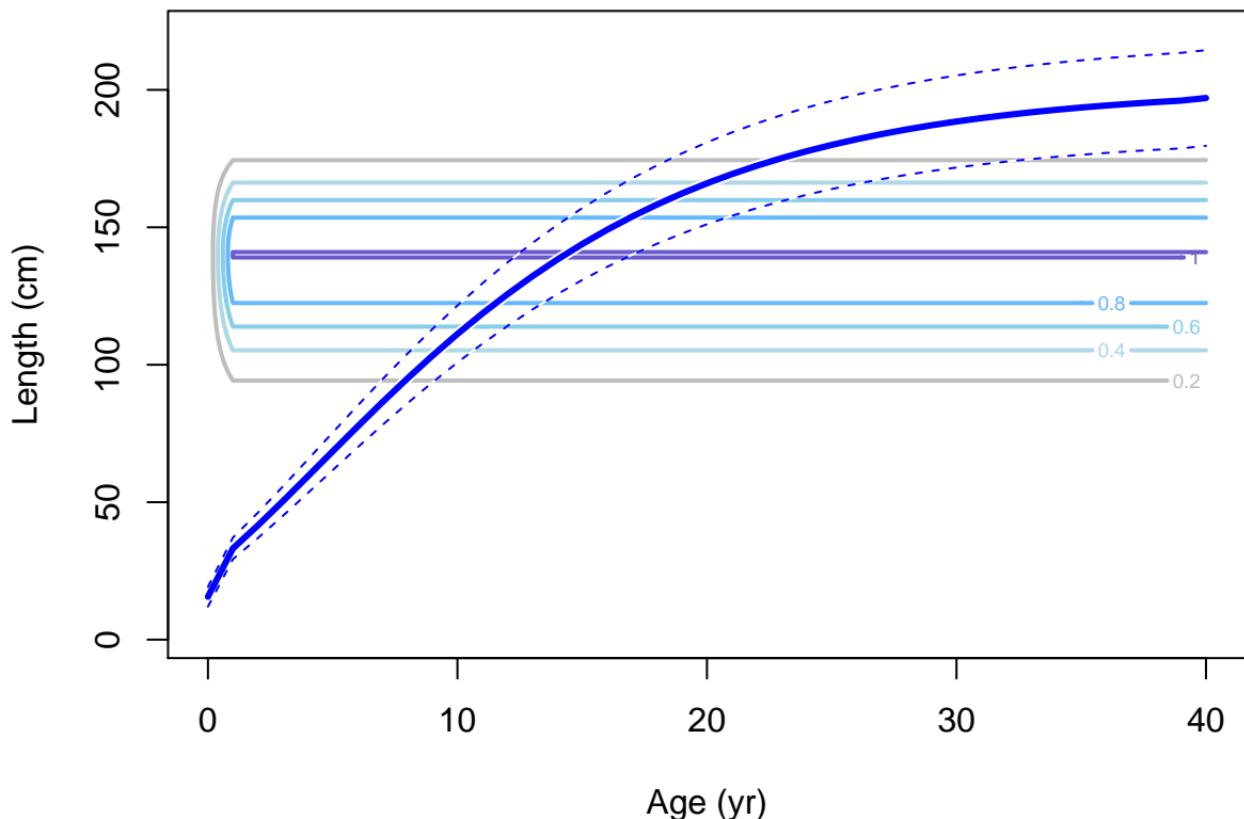
Male ending year selectivity and growth for F15-LL_I_num



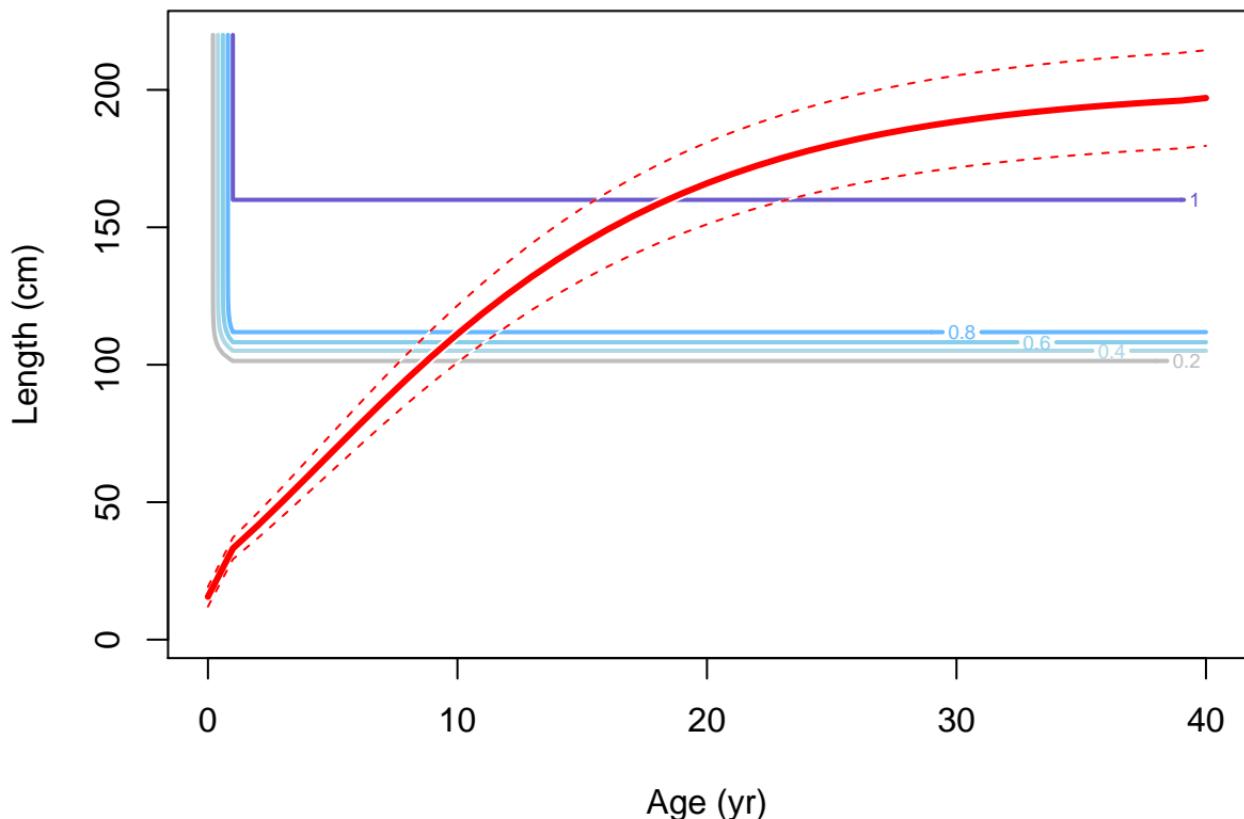
Female ending year selectivity and growth for F16-LL_N_w



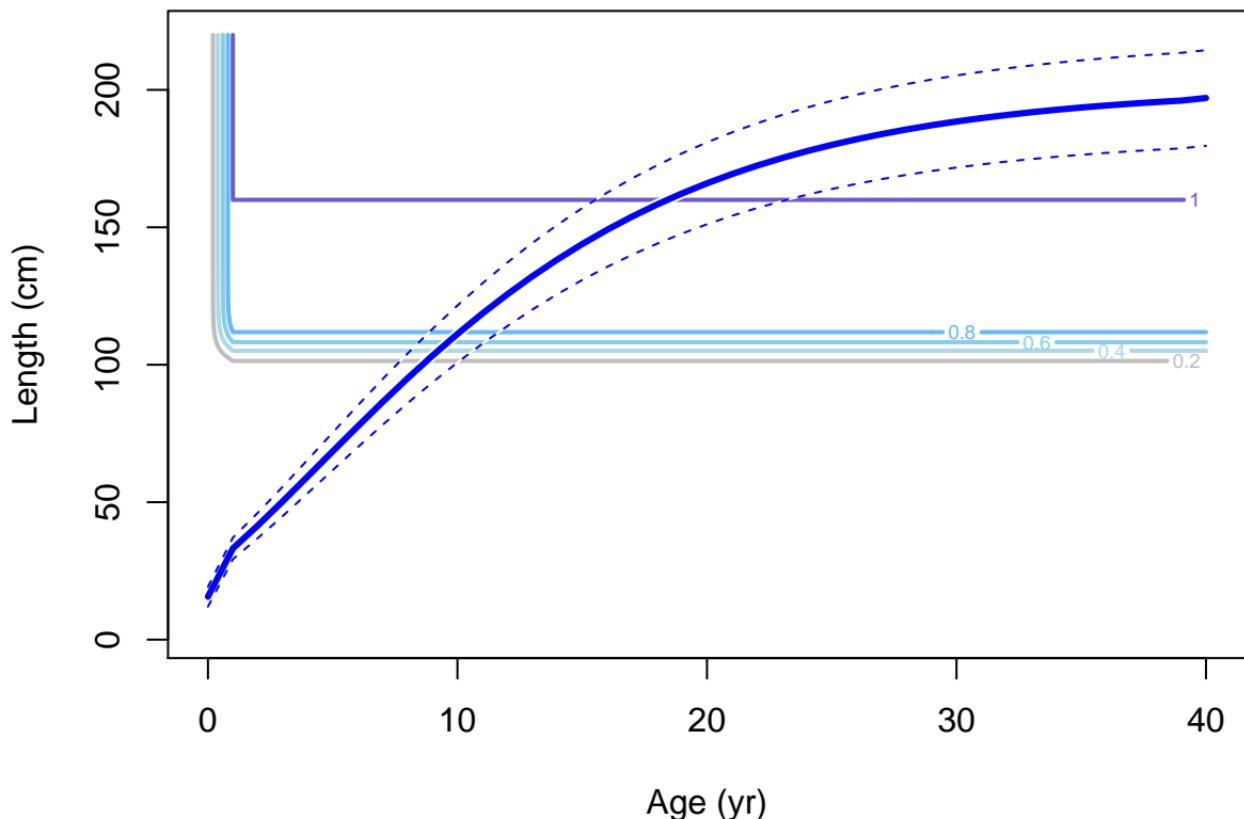
Male ending year selectivity and growth for F16-LL_N_w



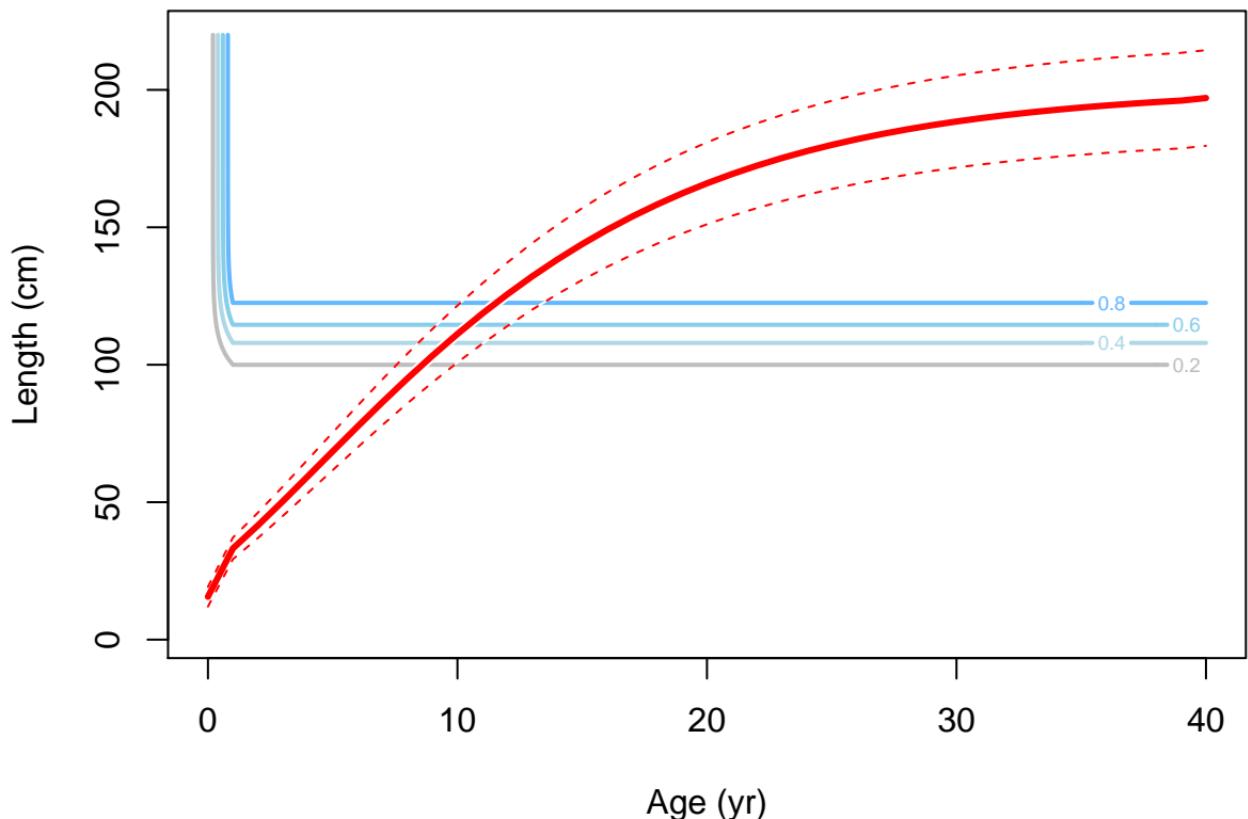
Female ending year selectivity and growth for F17-LL_C_w



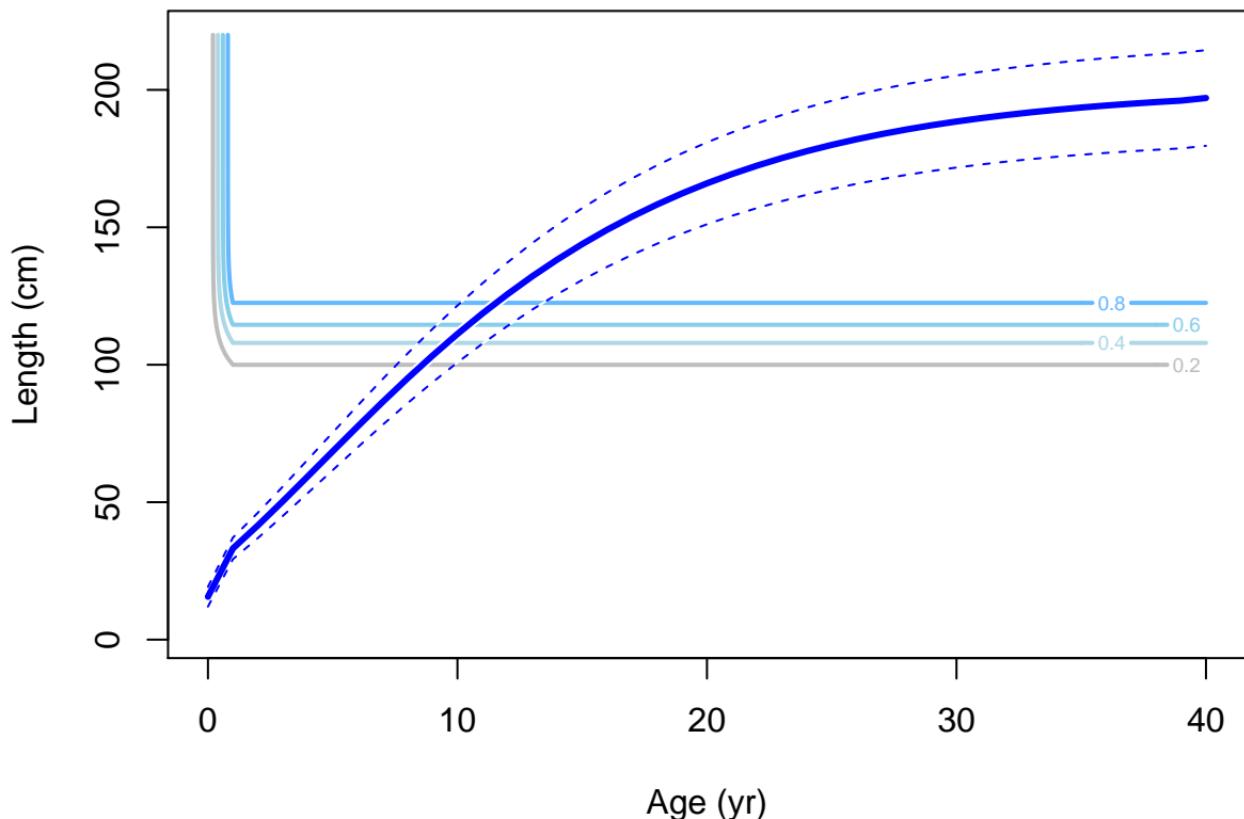
Male ending year selectivity and growth for F17-LL_C_w



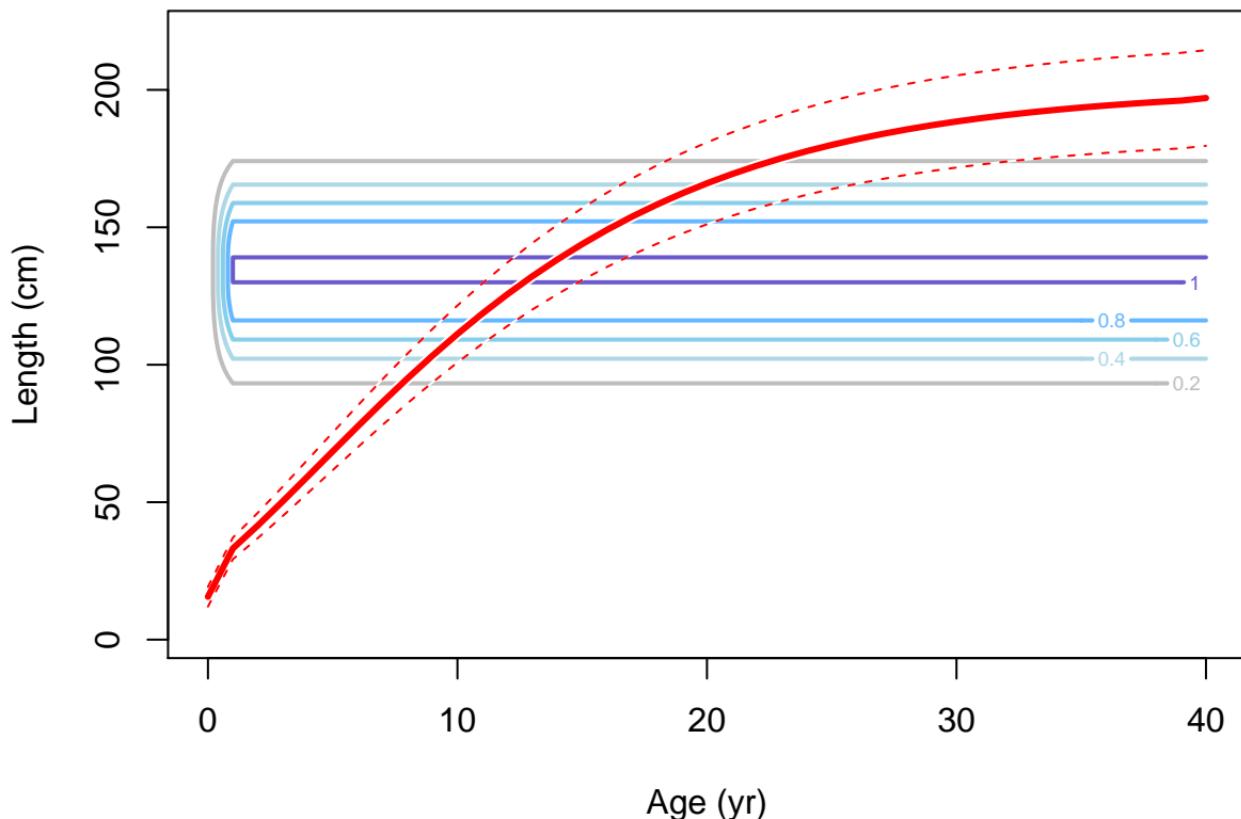
Female ending year selectivity and growth for F18-LL_S_w



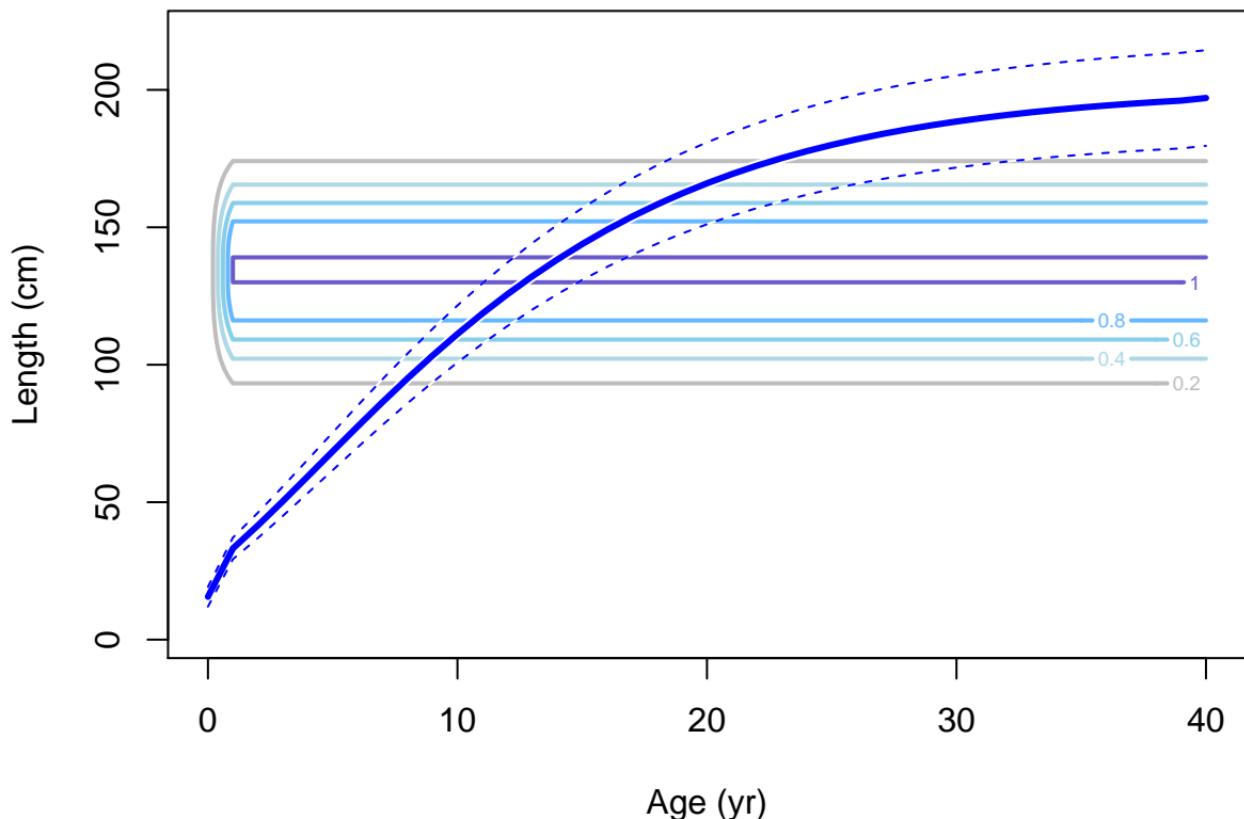
Male ending year selectivity and growth for F18-LL_S_w



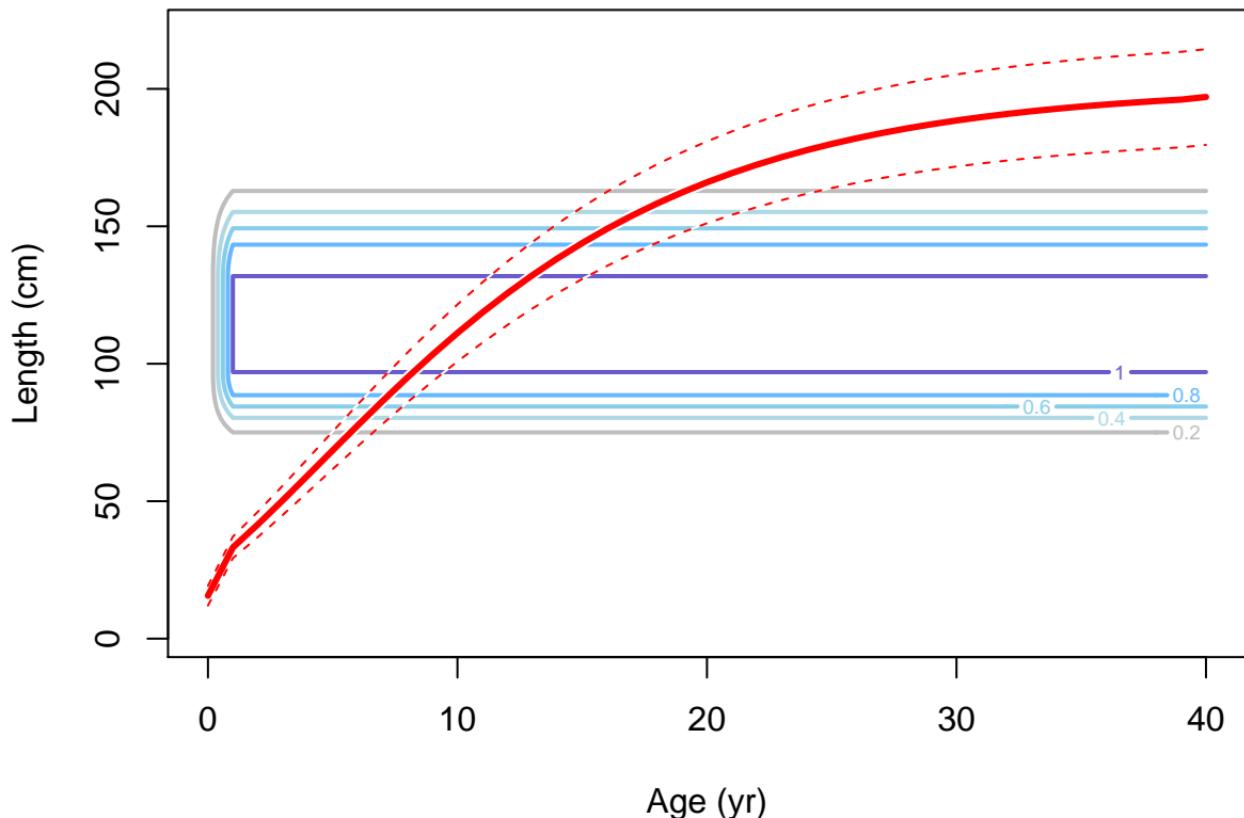
Female ending year selectivity and growth for F19-LL_I_w



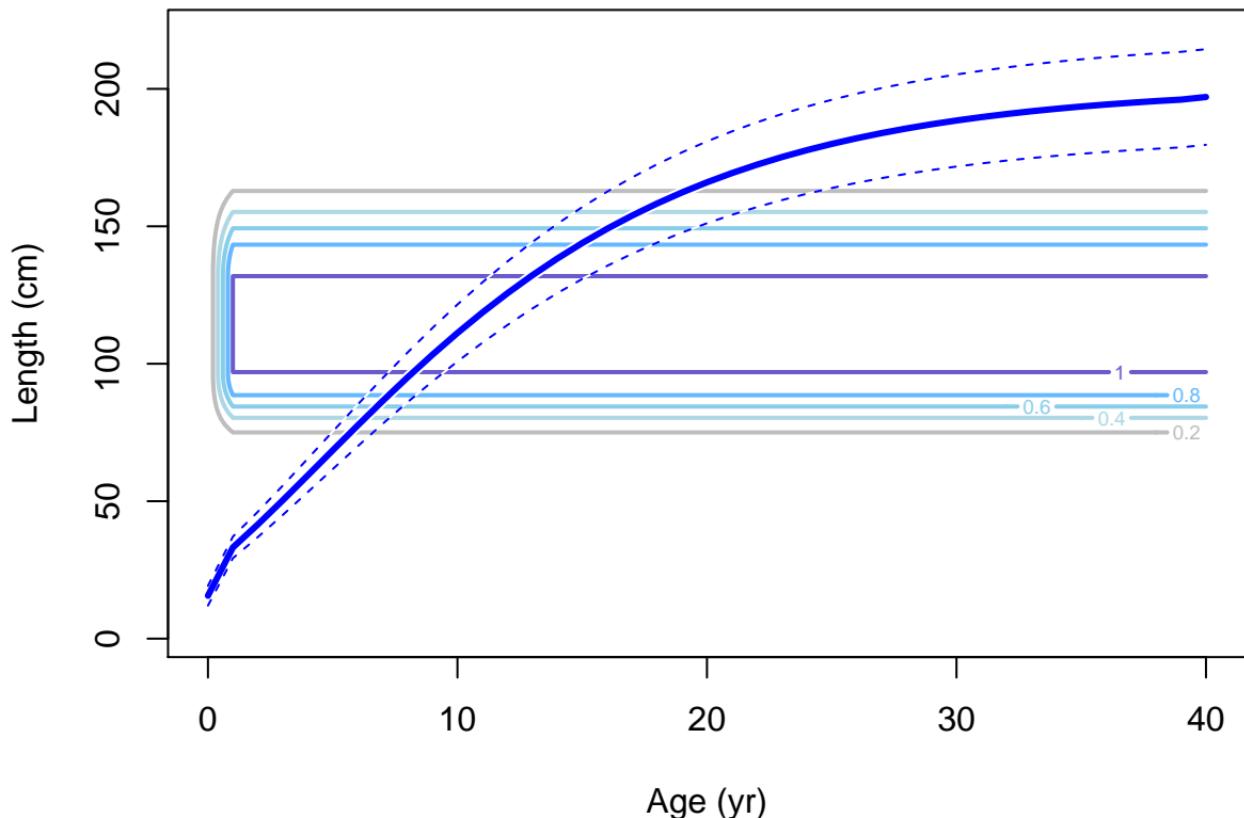
Male ending year selectivity and growth for F19-LL_I_w



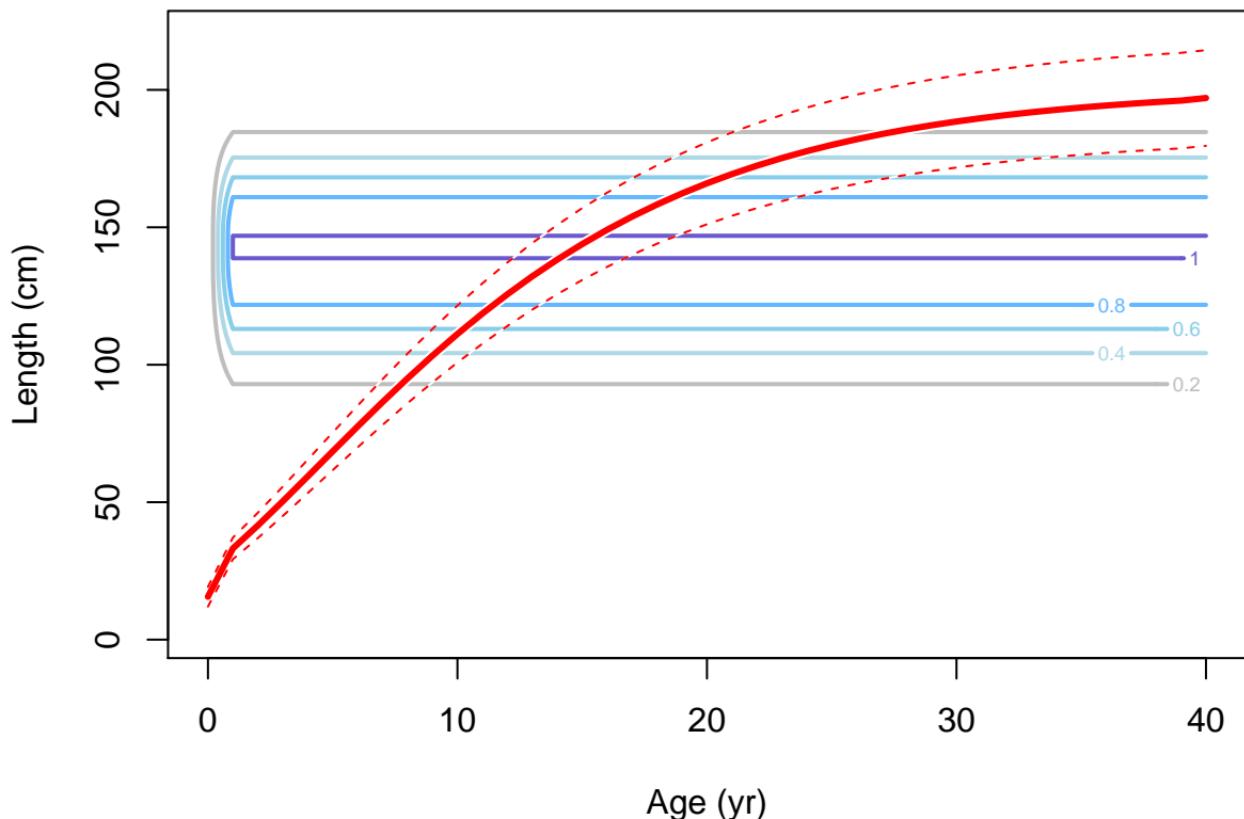
Female ending year selectivity and growth for S1-LLt_N_len



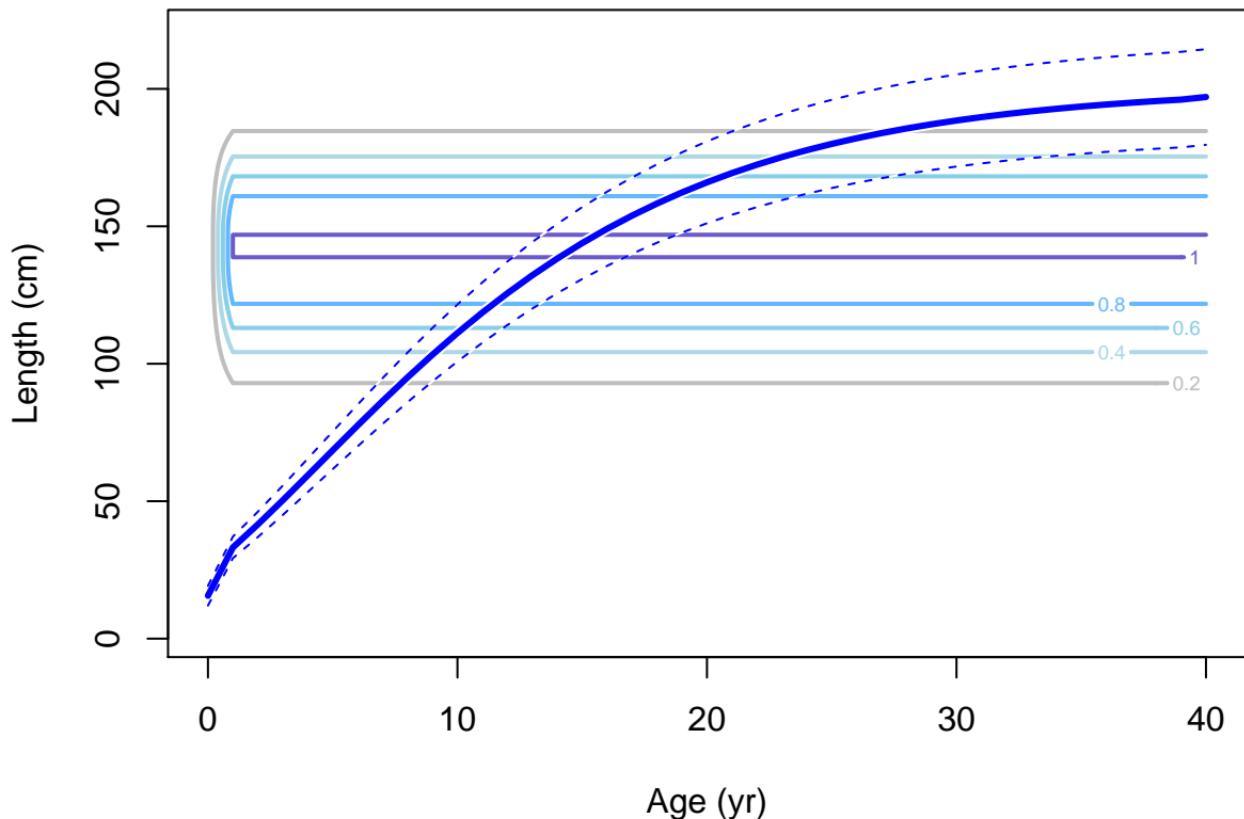
Male ending year selectivity and growth for S1-LLt_N_len



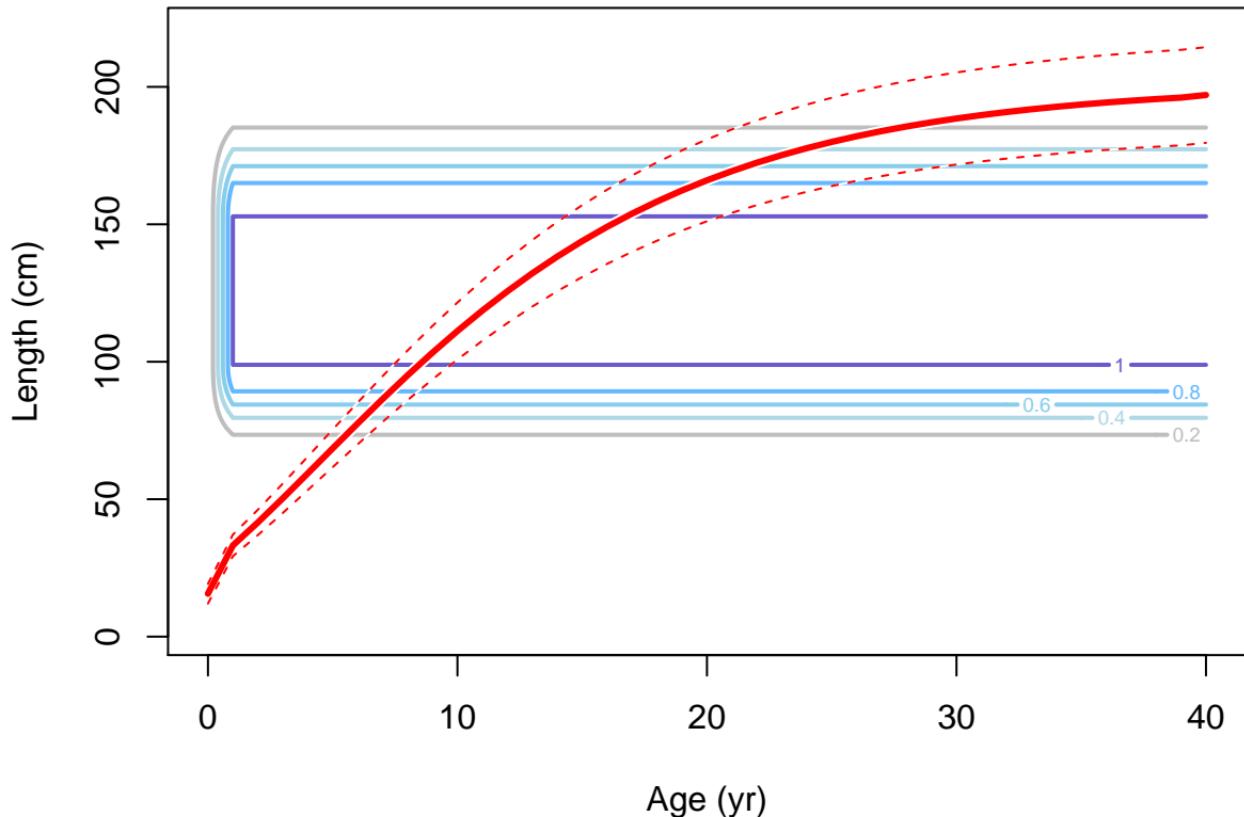
Female ending year selectivity and growth for S2-LLt_C_len



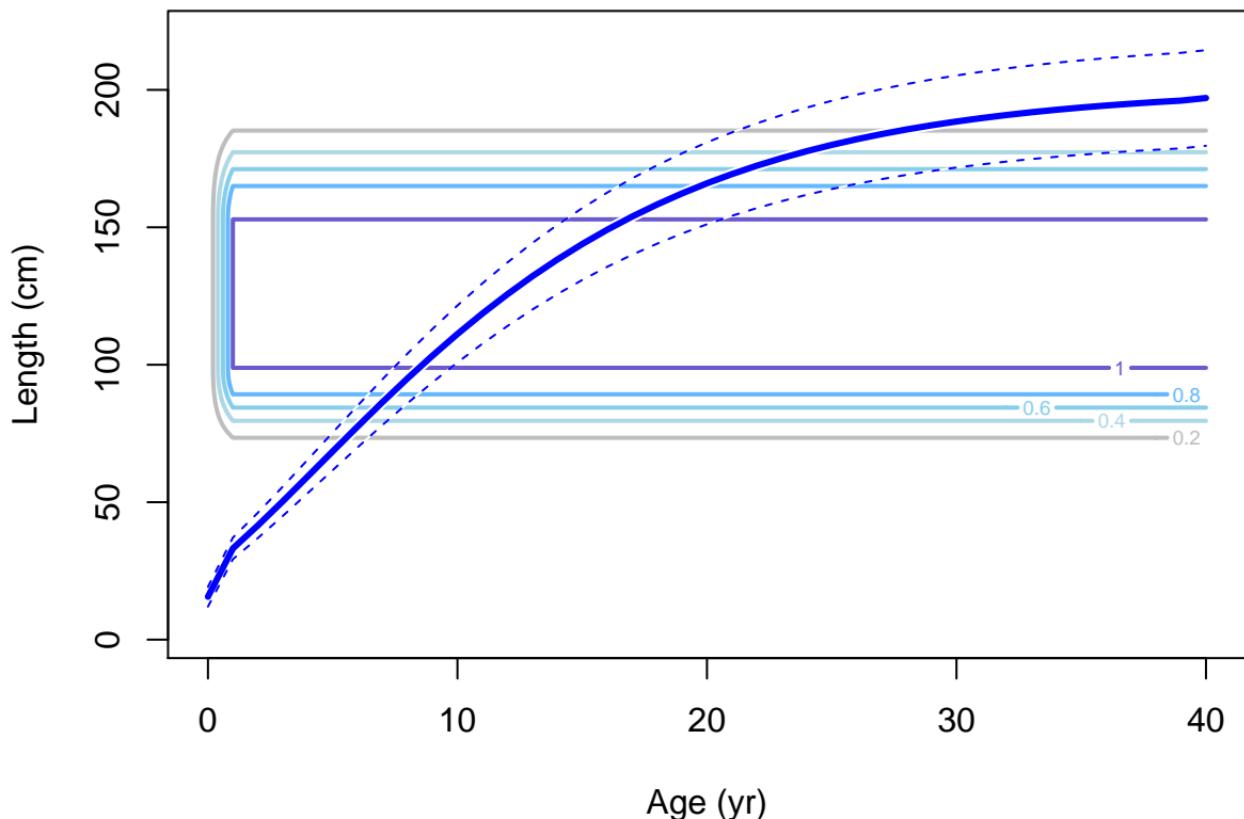
Male ending year selectivity and growth for S2-LLt_C_len



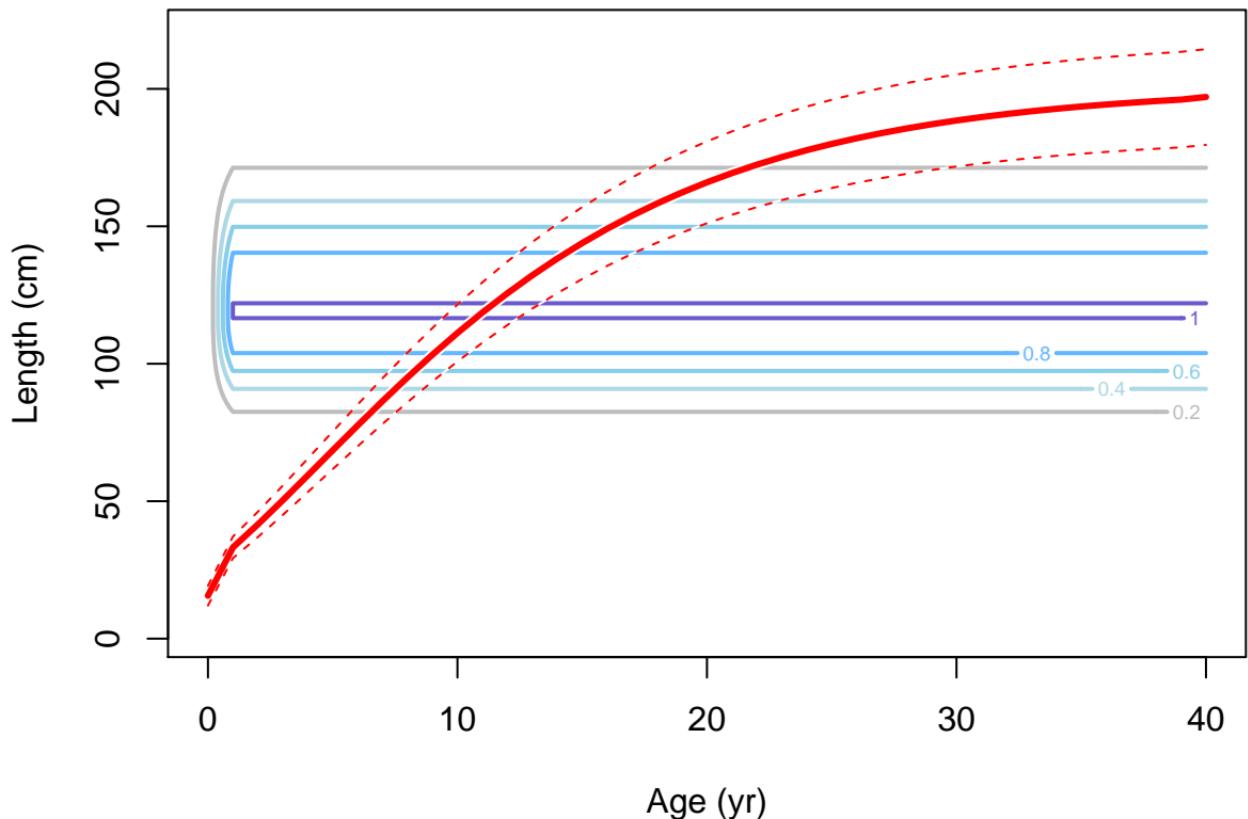
Female ending year selectivity and growth for S3–LLt_S_len



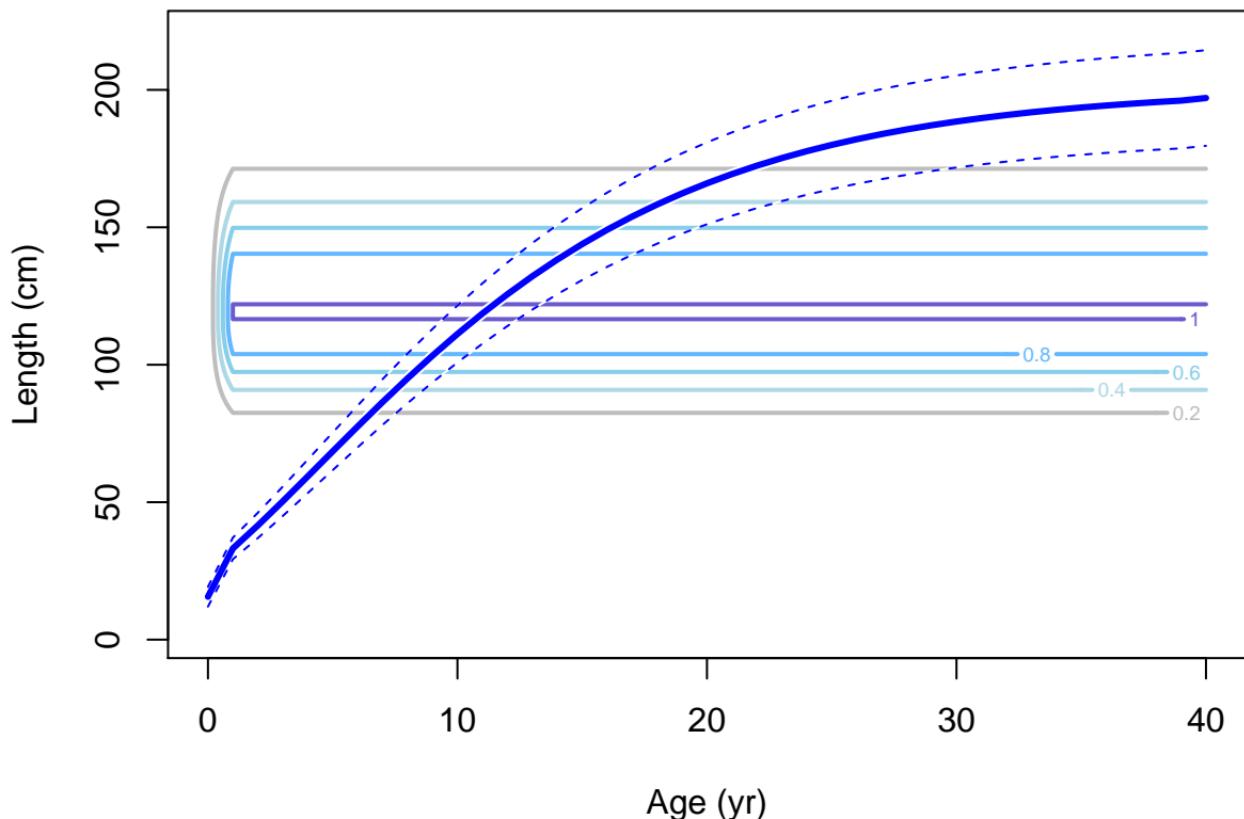
Male ending year selectivity and growth for S3–LLt_S_len



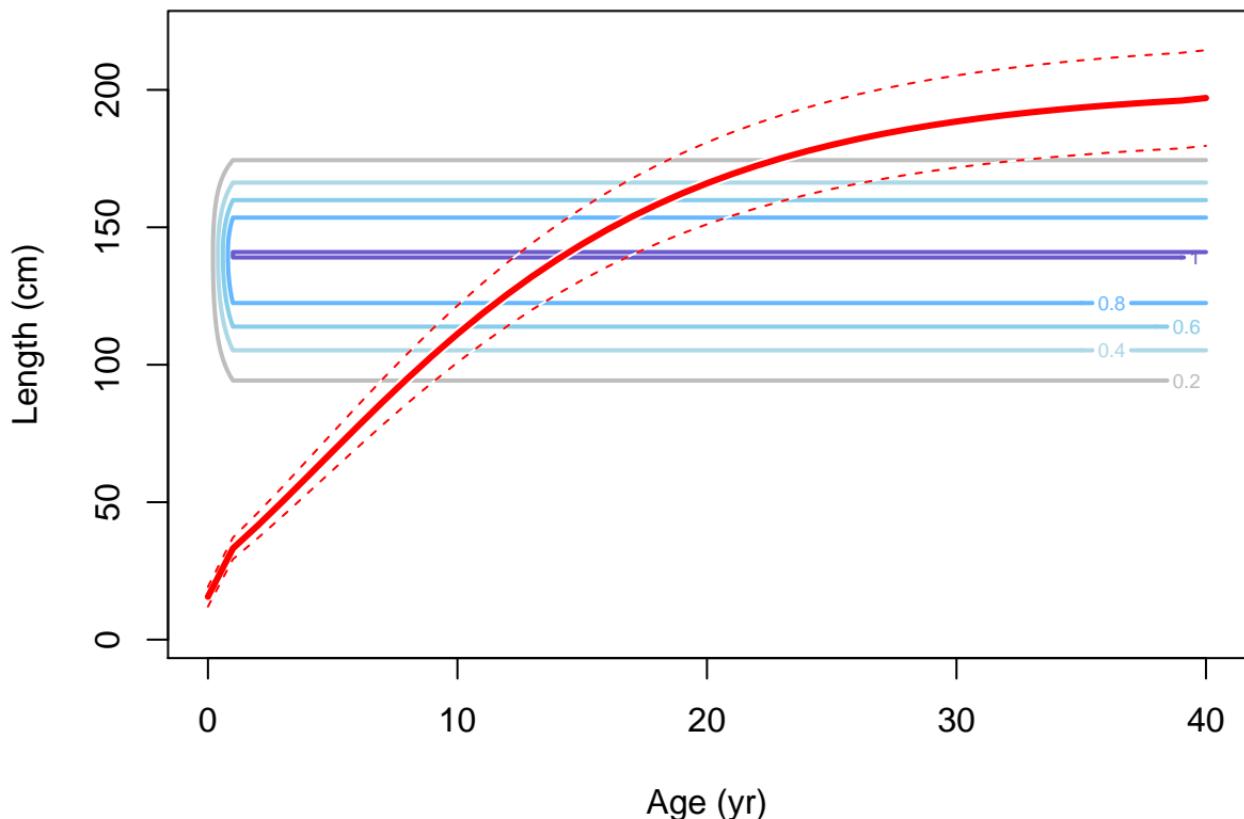
Female ending year selectivity and growth for S4-LLt_I_len



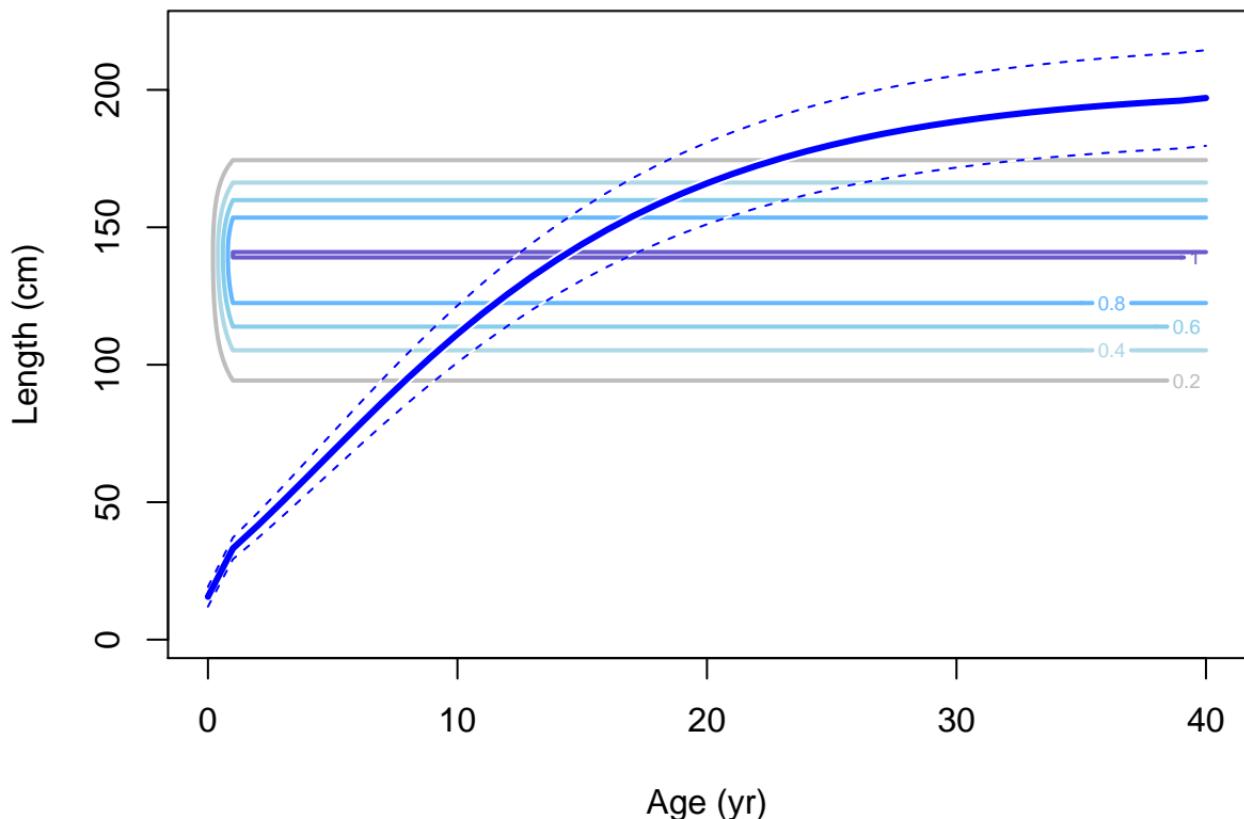
Male ending year selectivity and growth for S4-LLt_I_len



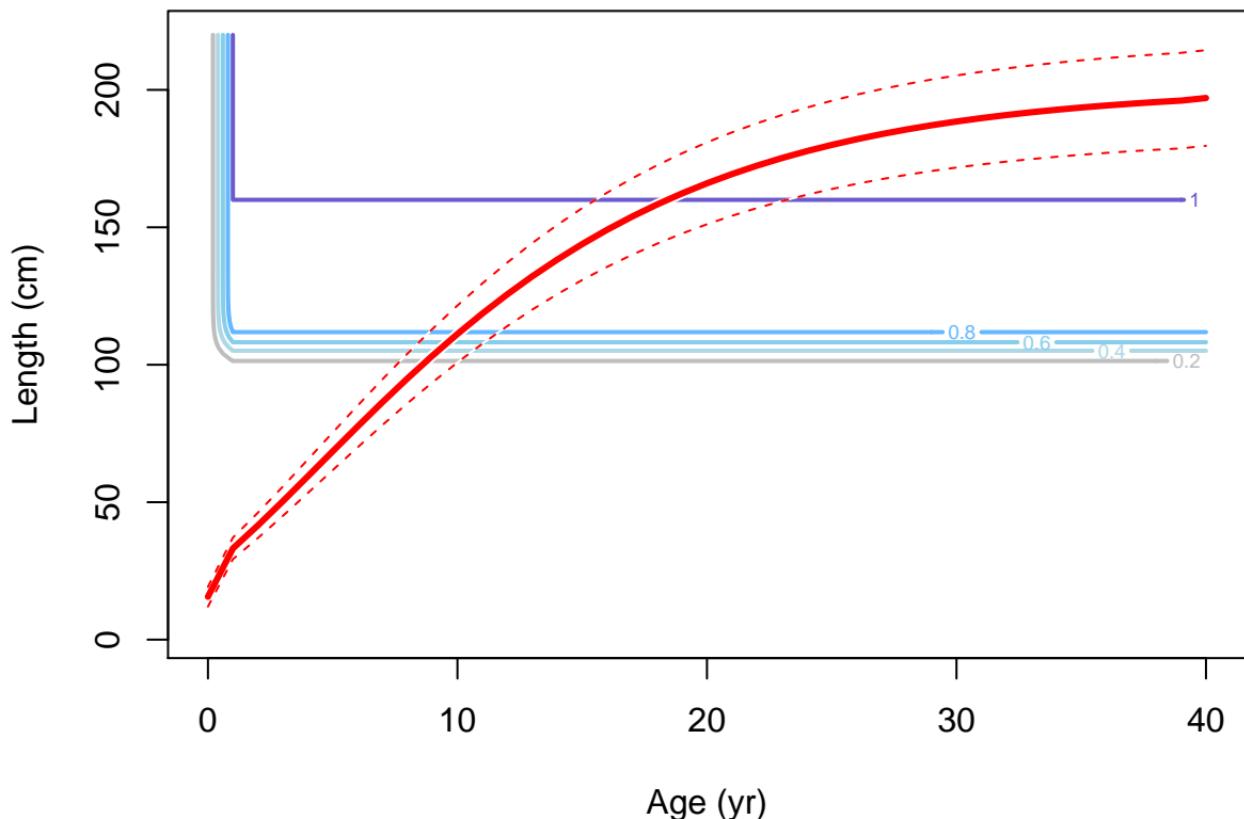
Female ending year selectivity and growth for S5-LLc_N_w



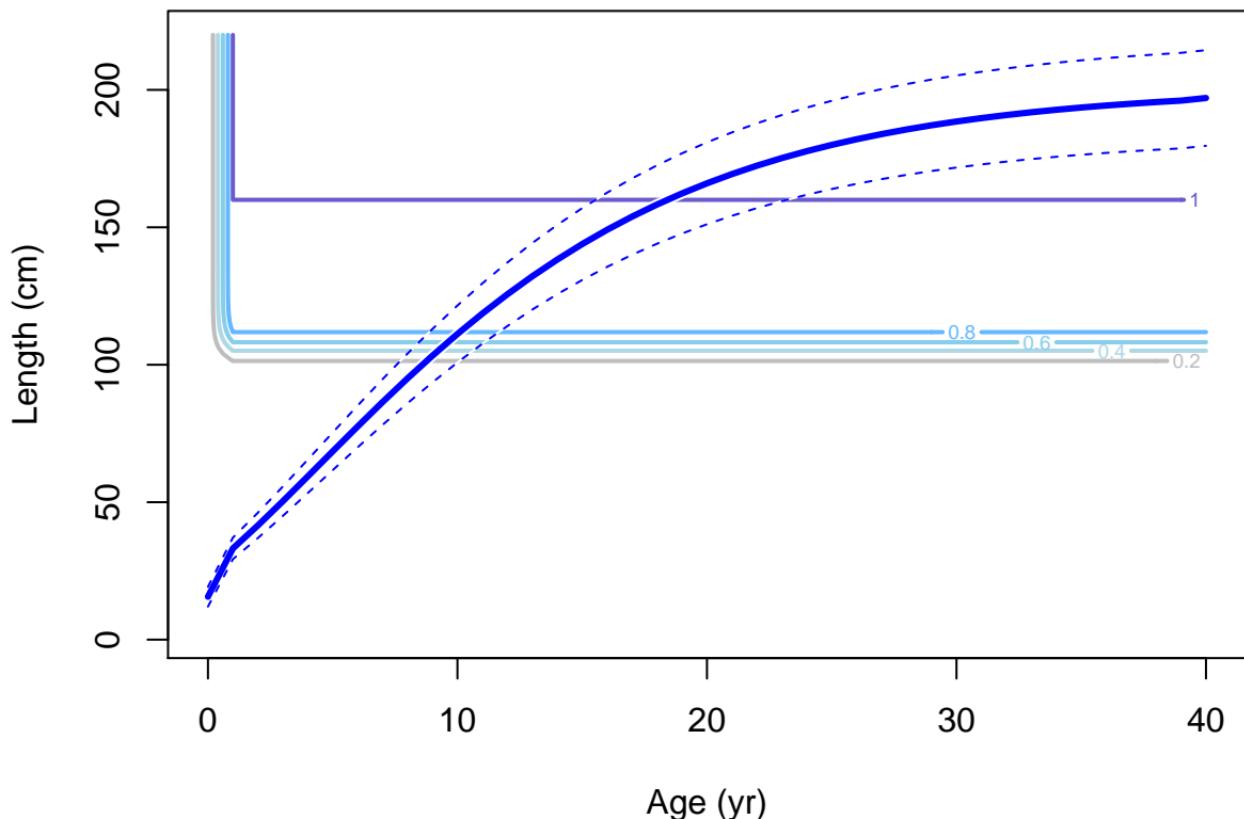
Male ending year selectivity and growth for S5-LLc_N_w



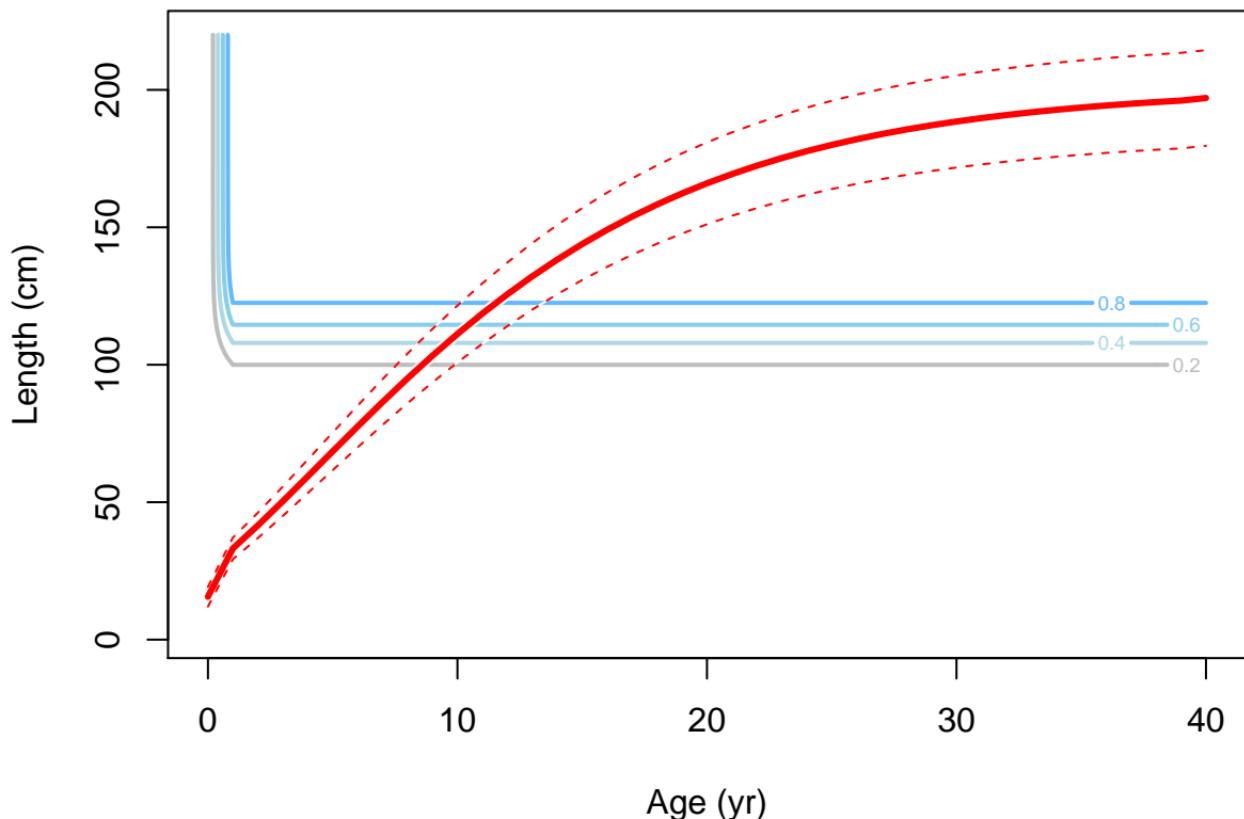
Female ending year selectivity and growth for S6-LLc_C_w



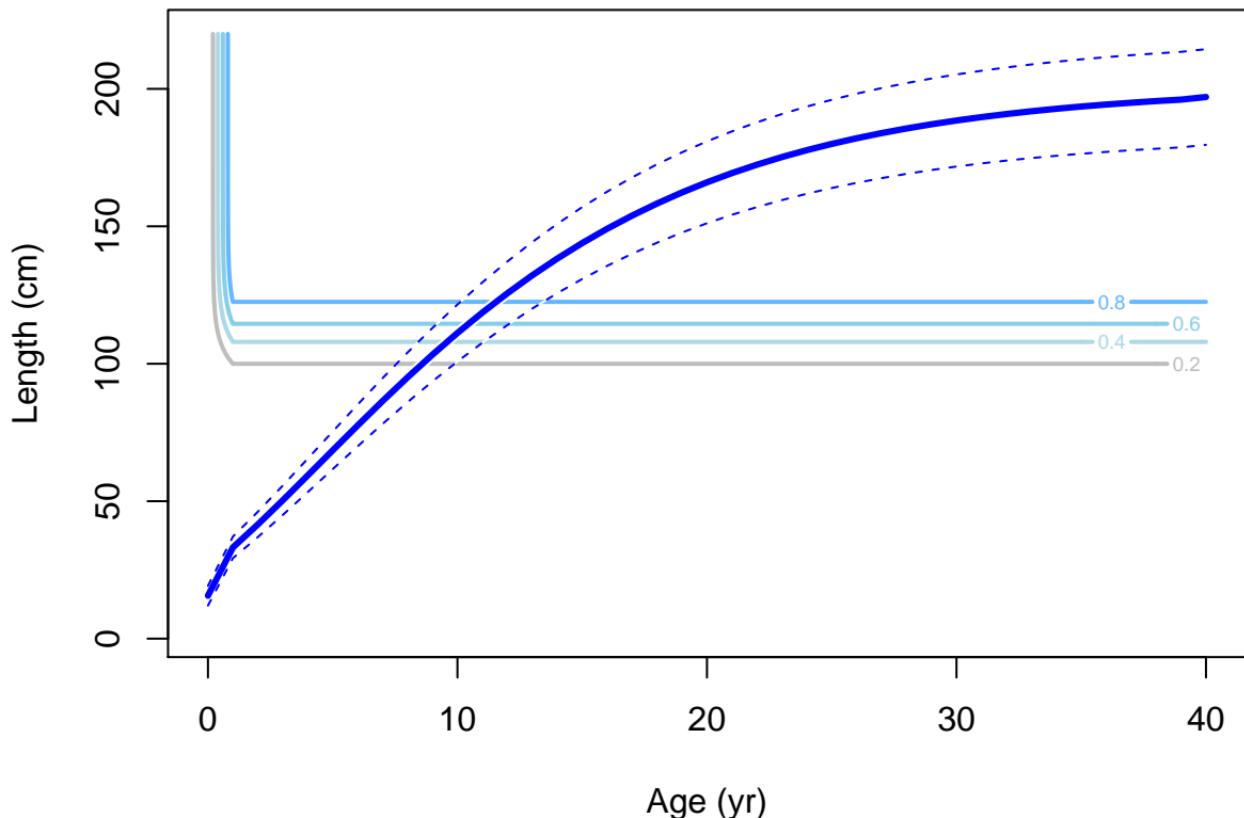
Male ending year selectivity and growth for S6–LLc_C_w



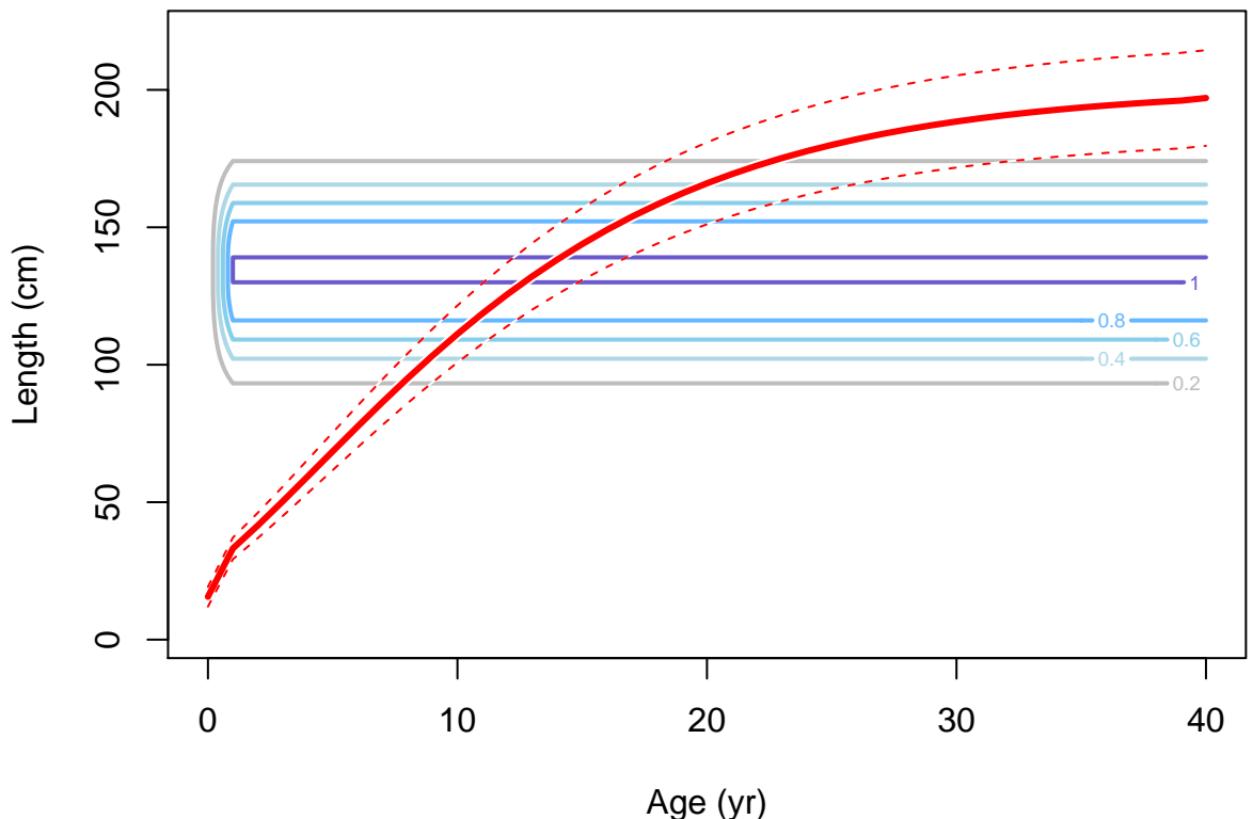
Female ending year selectivity and growth for S7-LLc_S_w



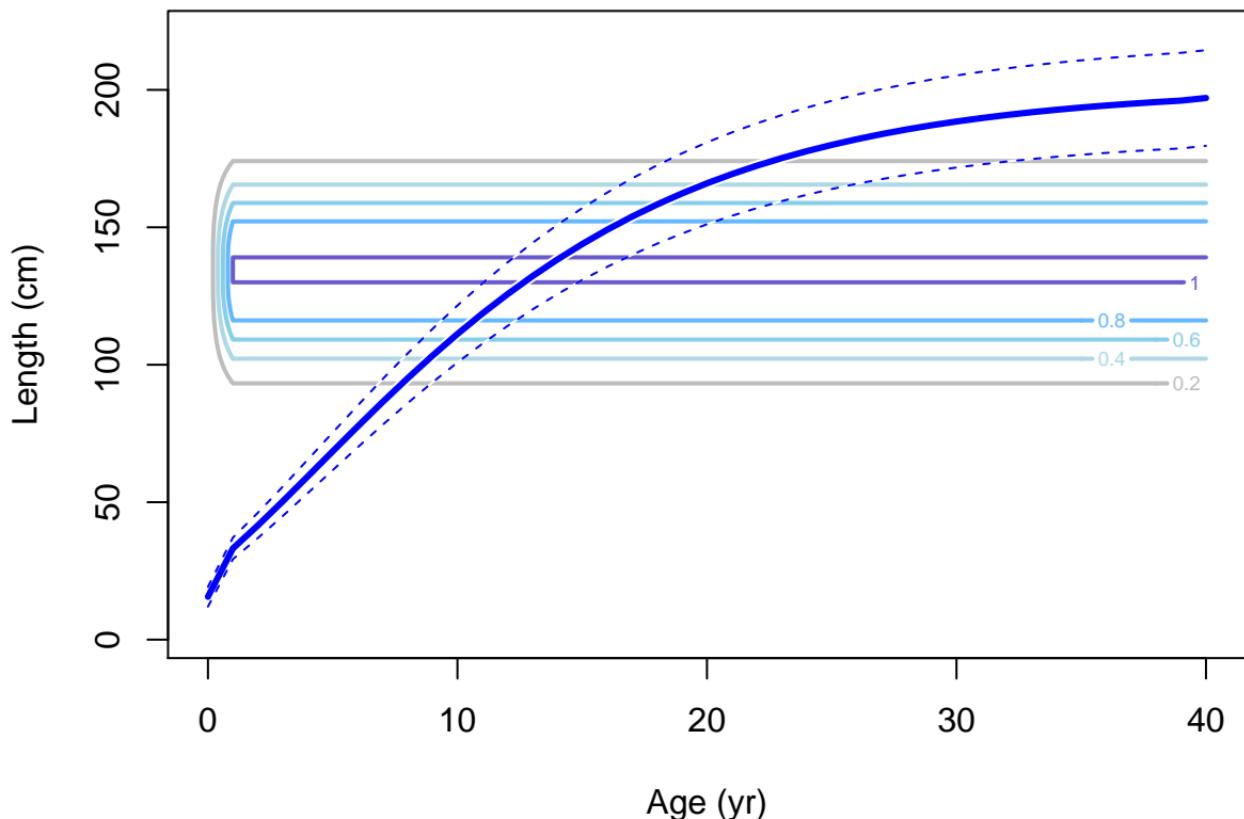
Male ending year selectivity and growth for S7–LLc_S_w



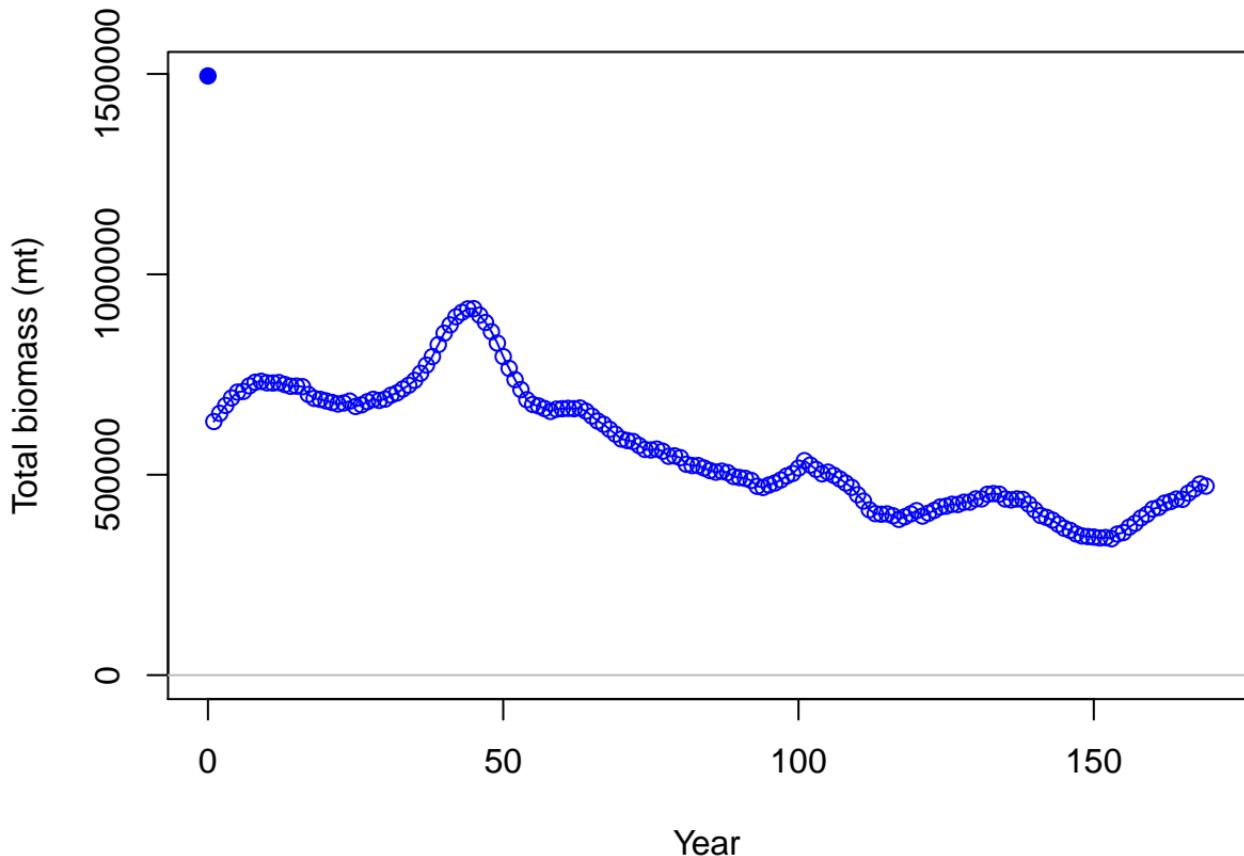
Female ending year selectivity and growth for S8-LLc_I_w



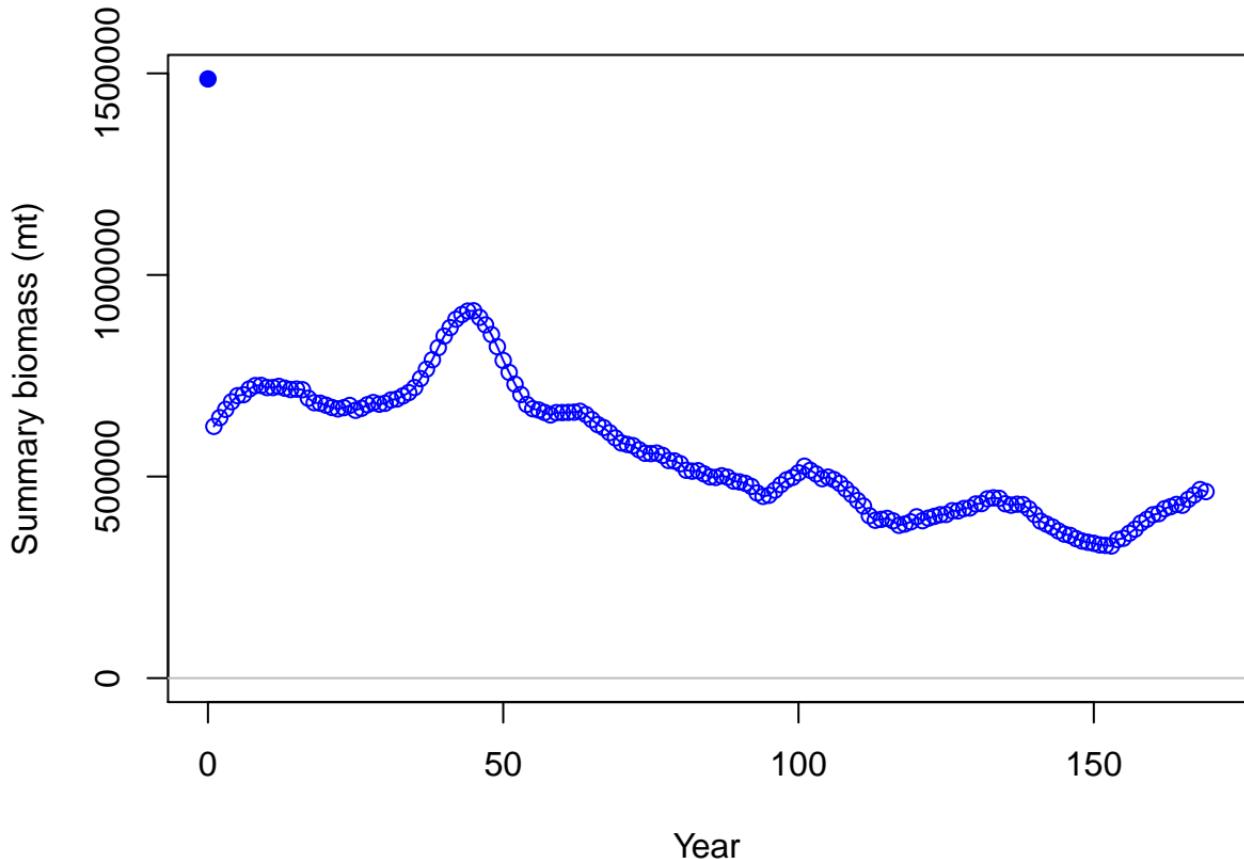
Male ending year selectivity and growth for S8-LLc_I_w



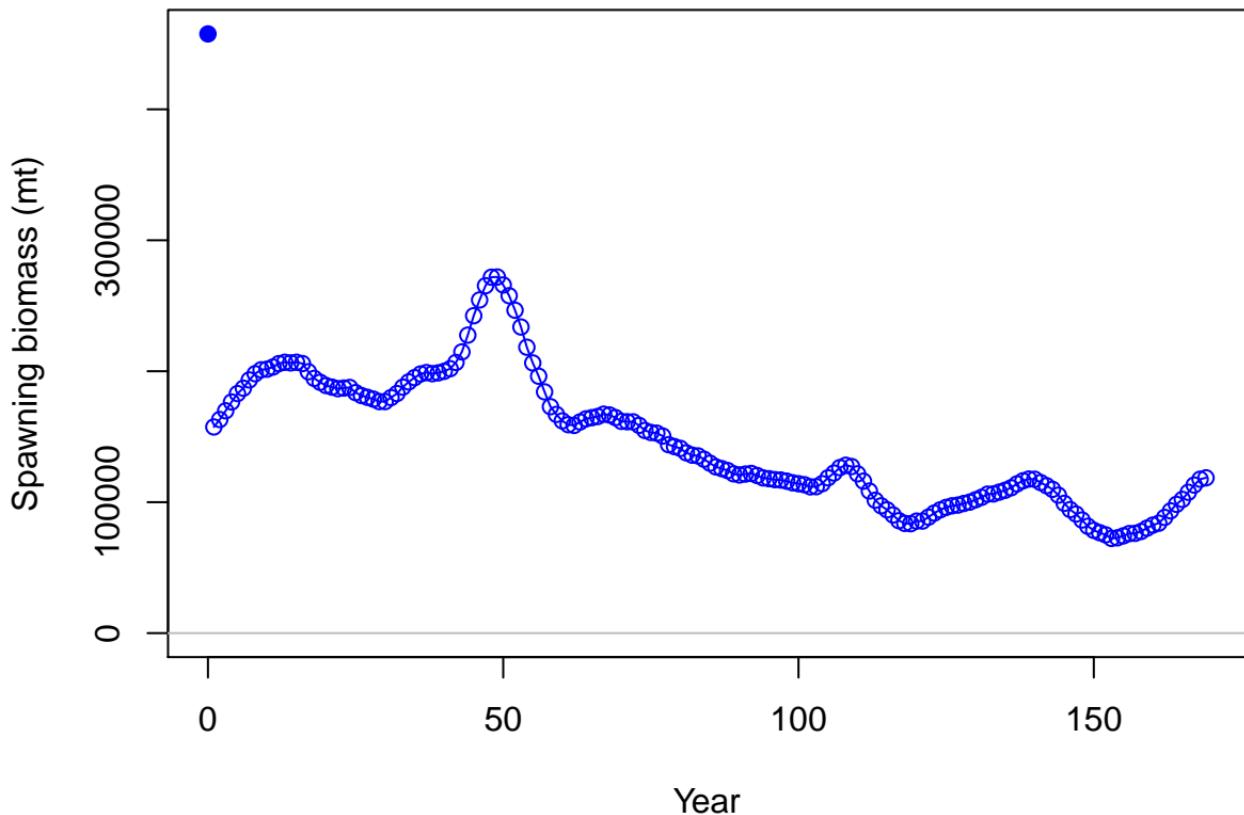
Total biomass (mt)



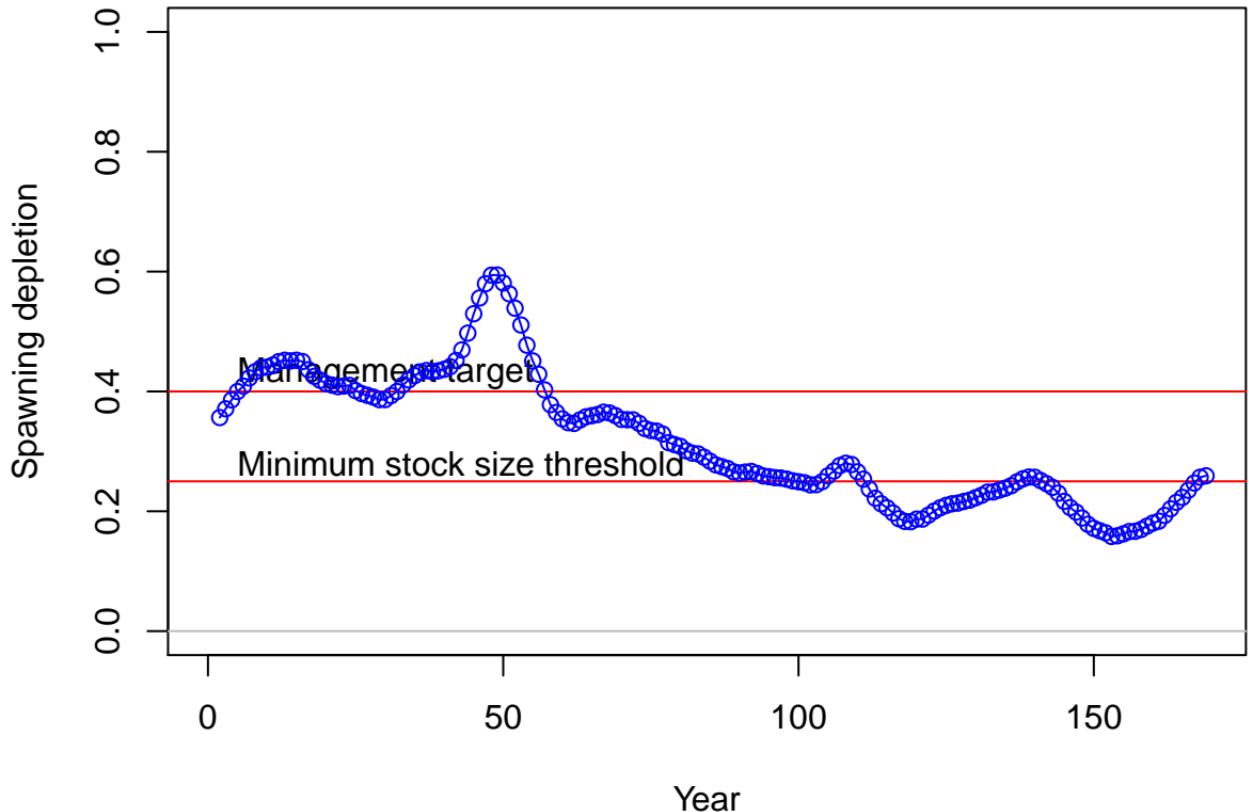
Summary biomass (mt)



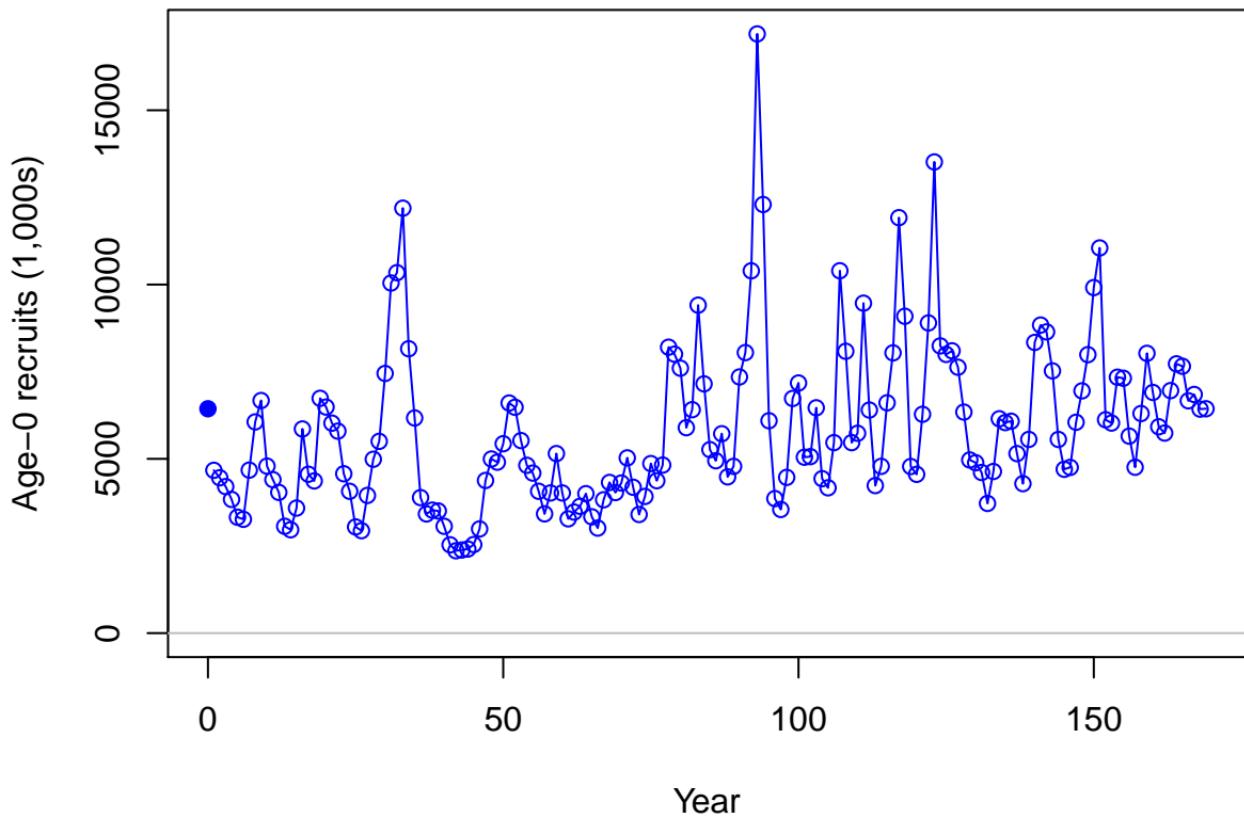
Spawning biomass (mt)



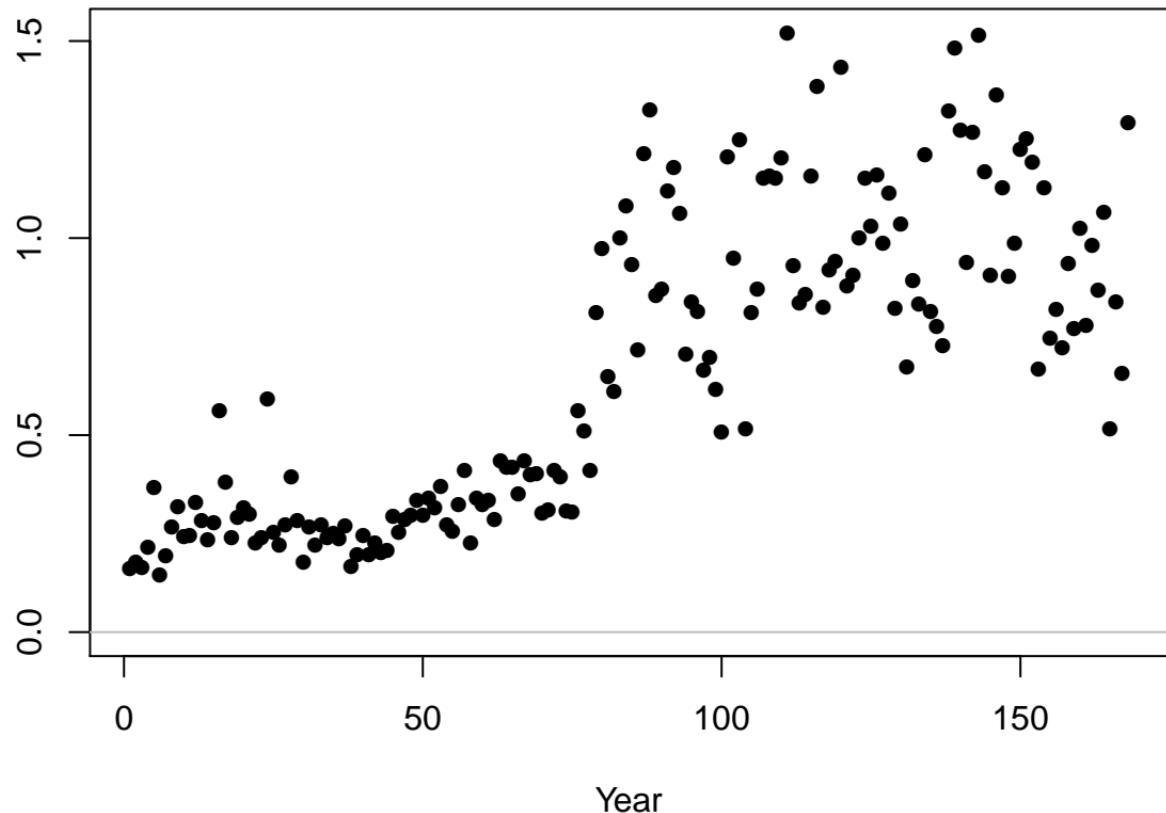
Spawning depletion



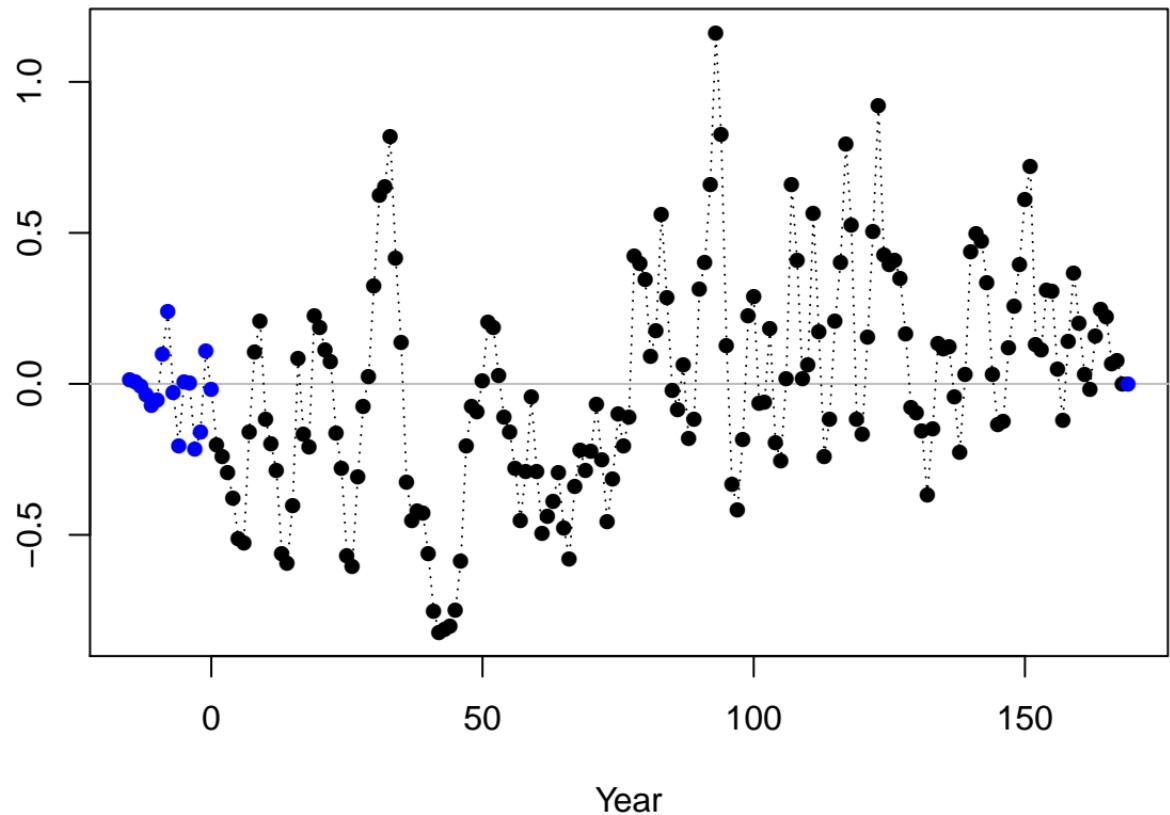
Age-0 recruits (1,000s)

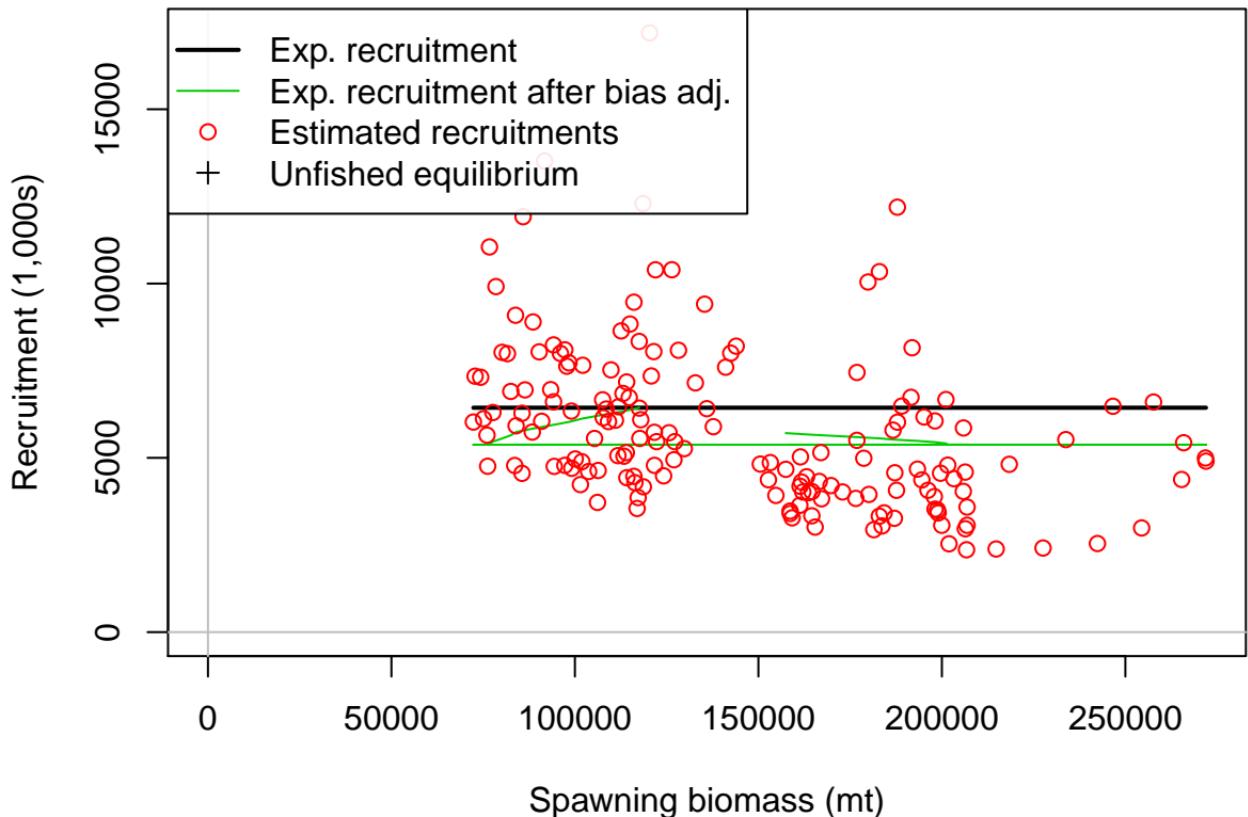


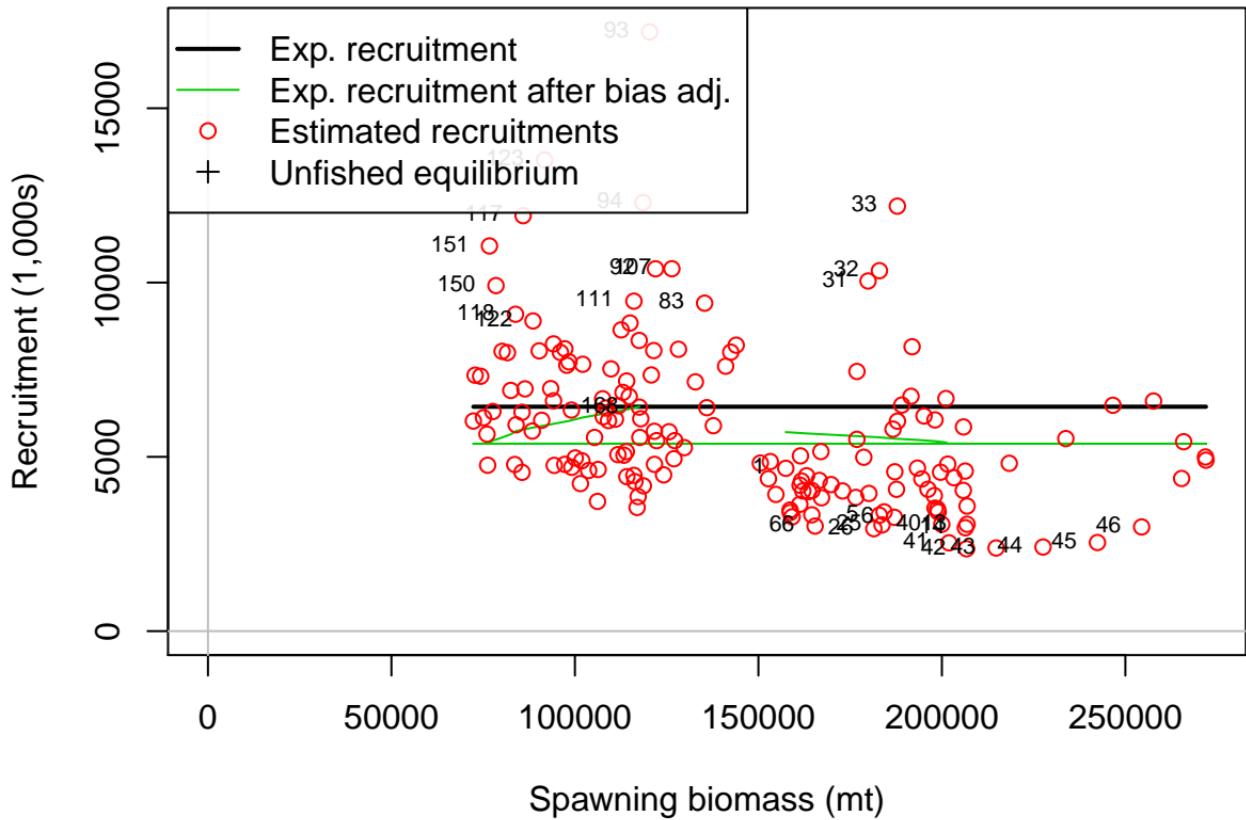
Summary Fishing Mortality

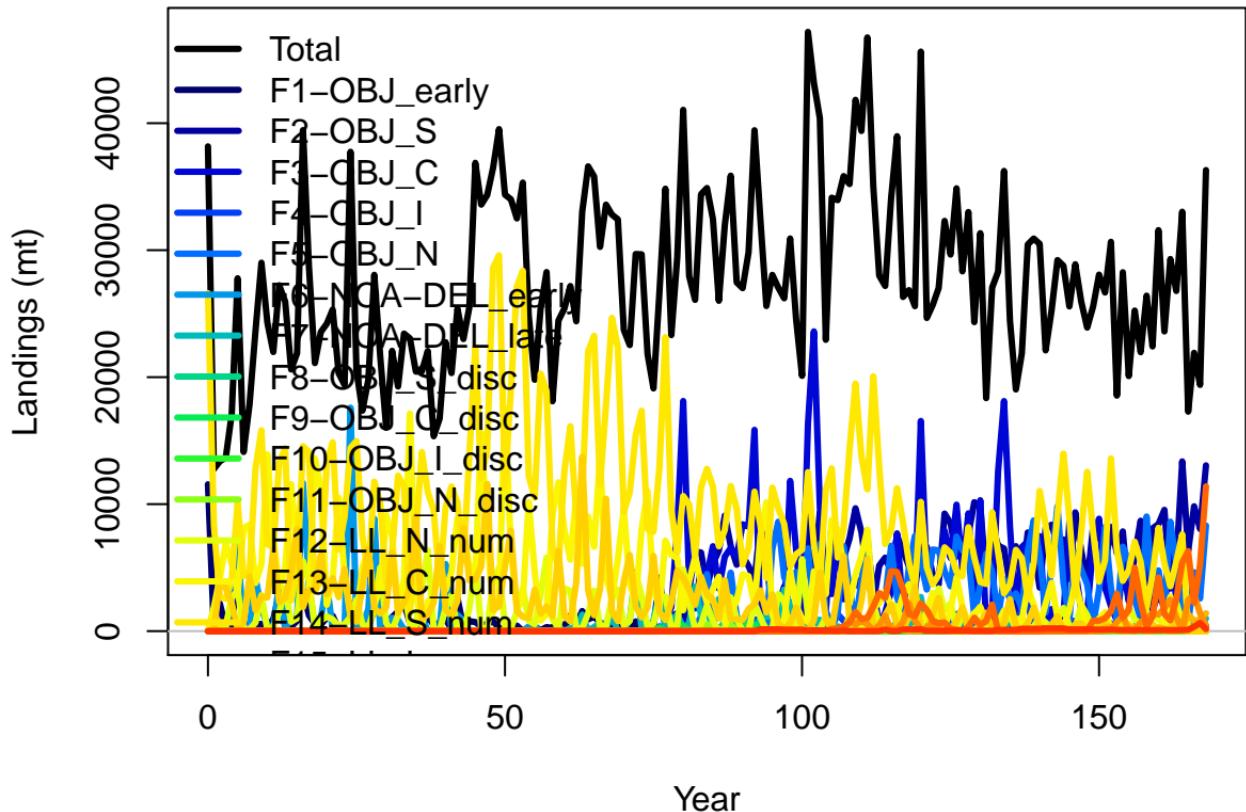


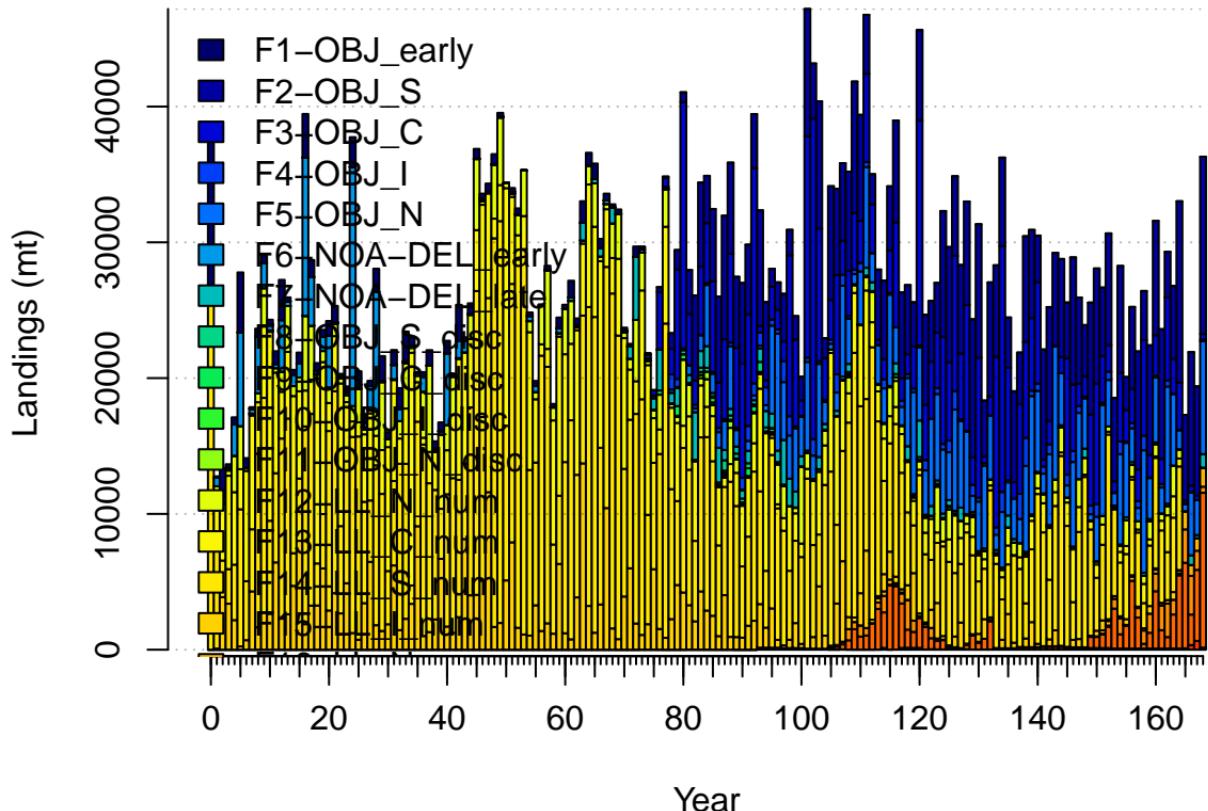
Log recruitment deviation

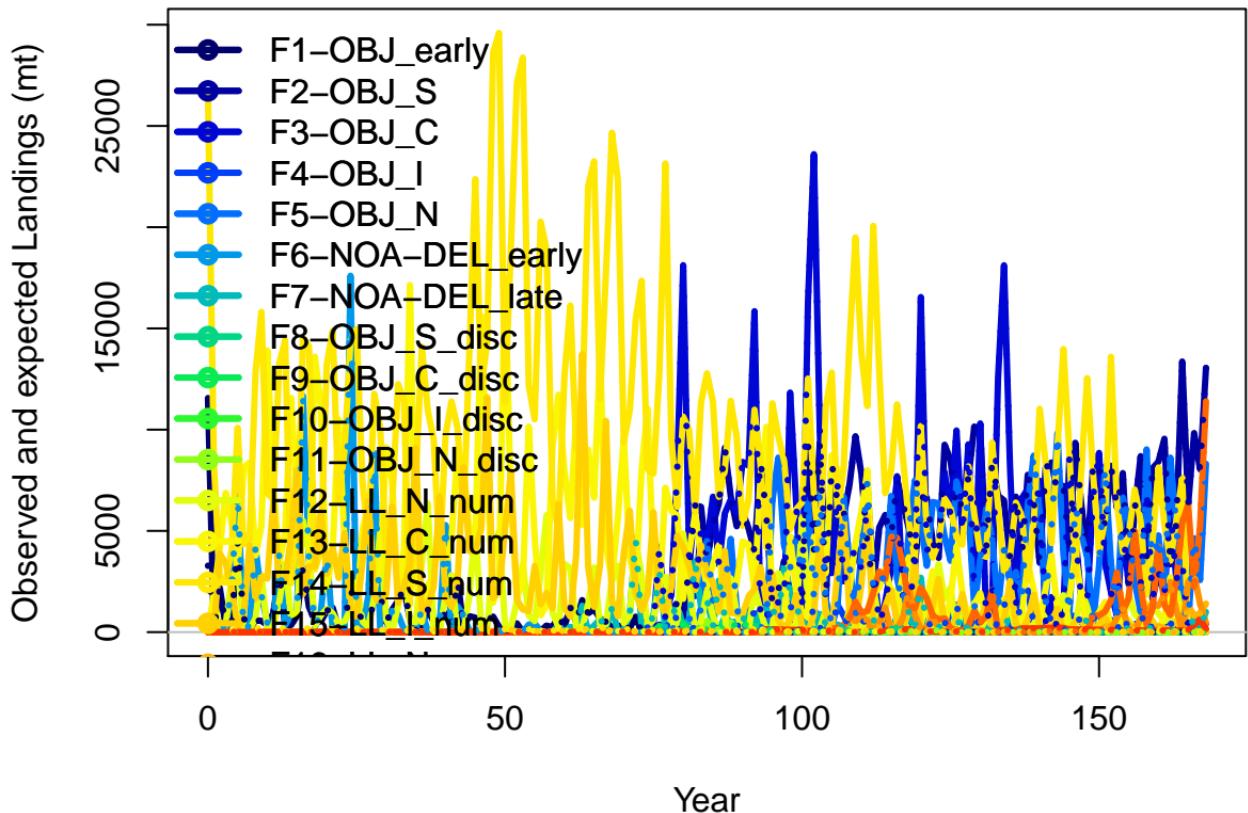


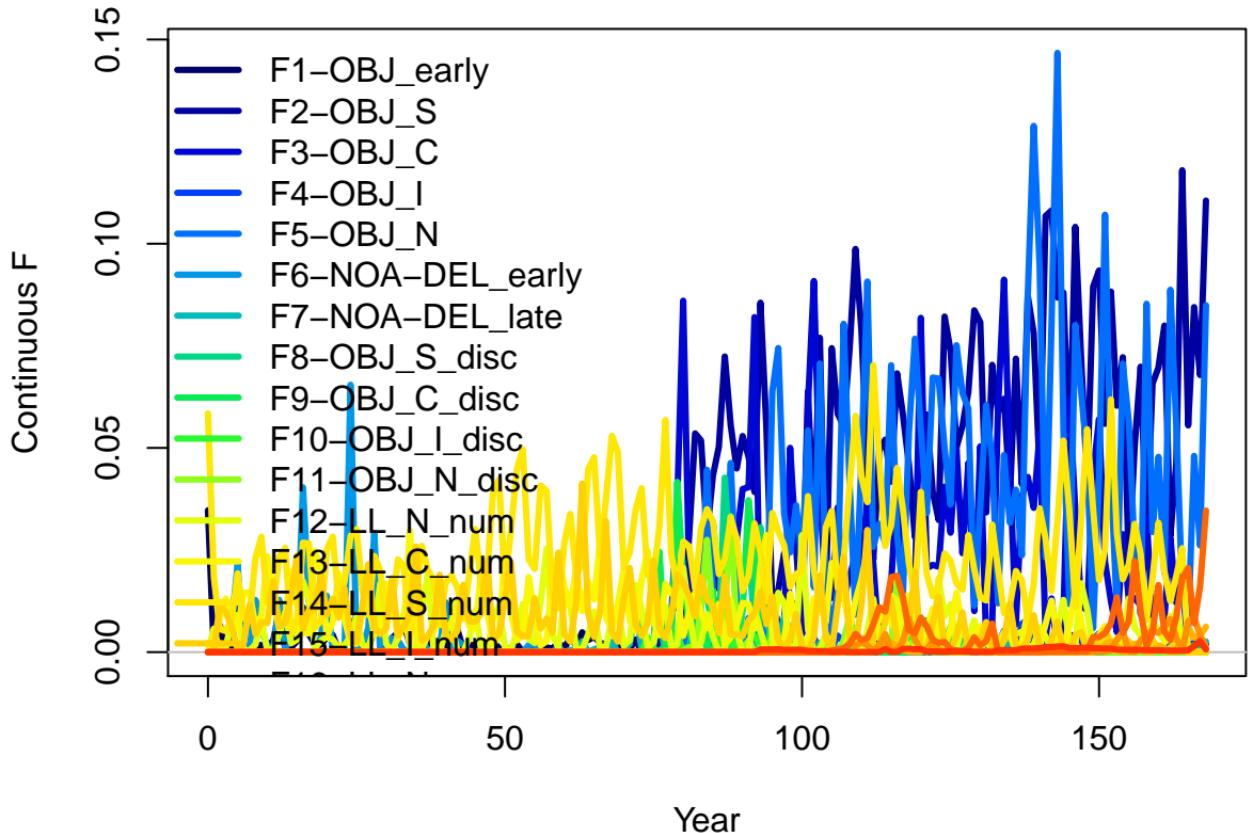


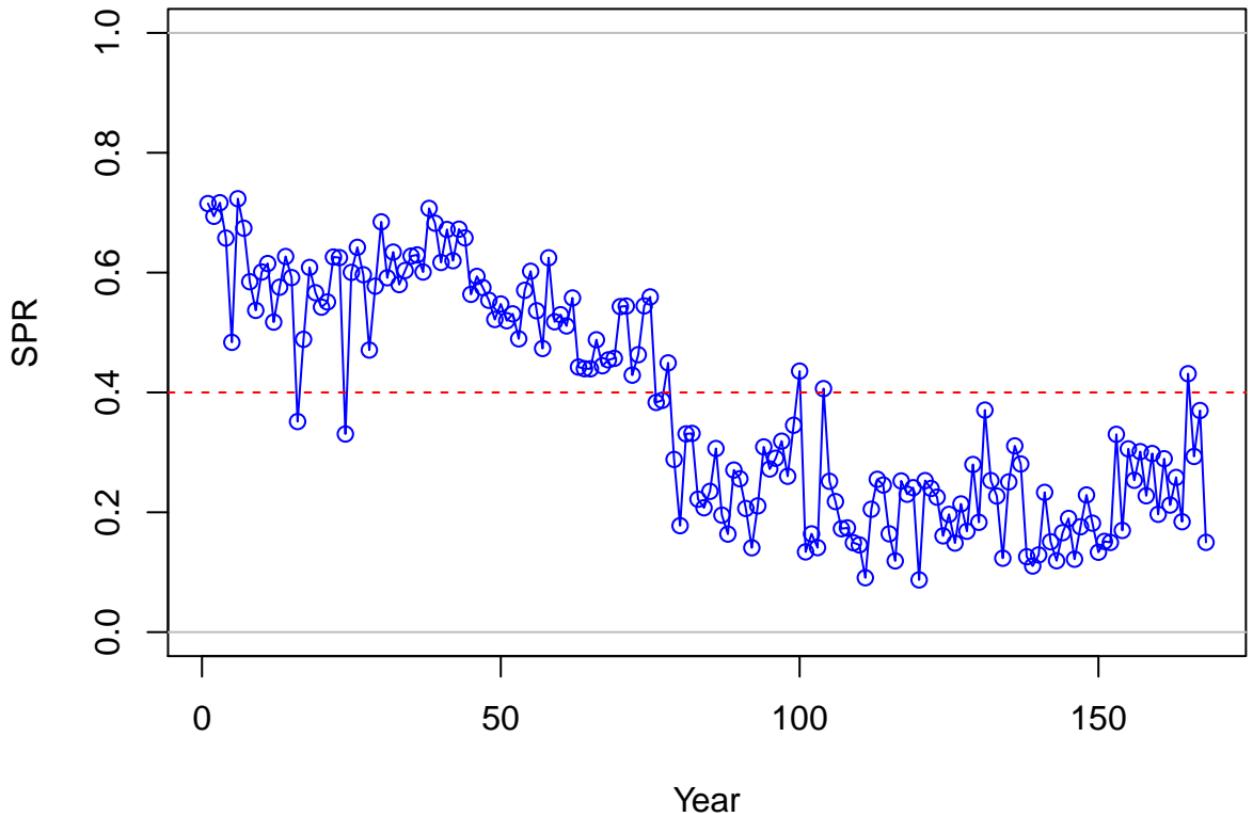


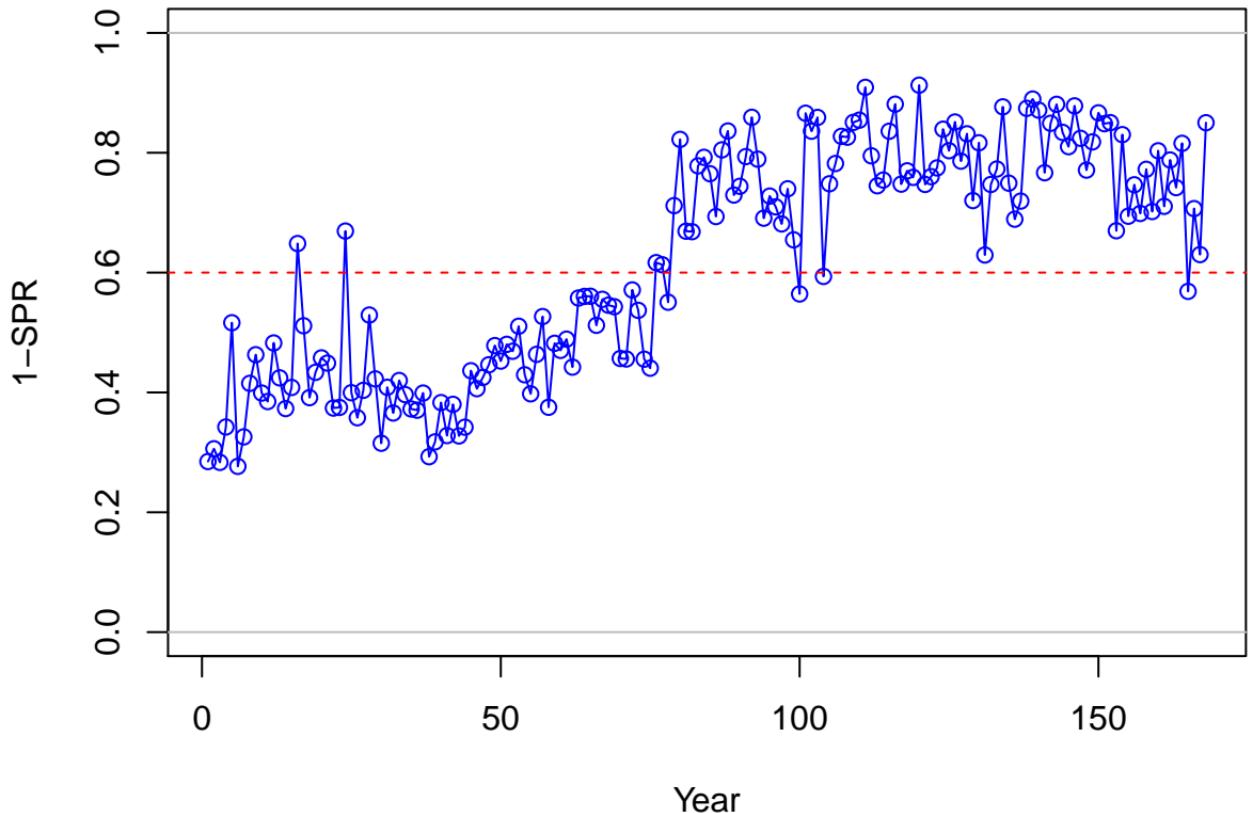


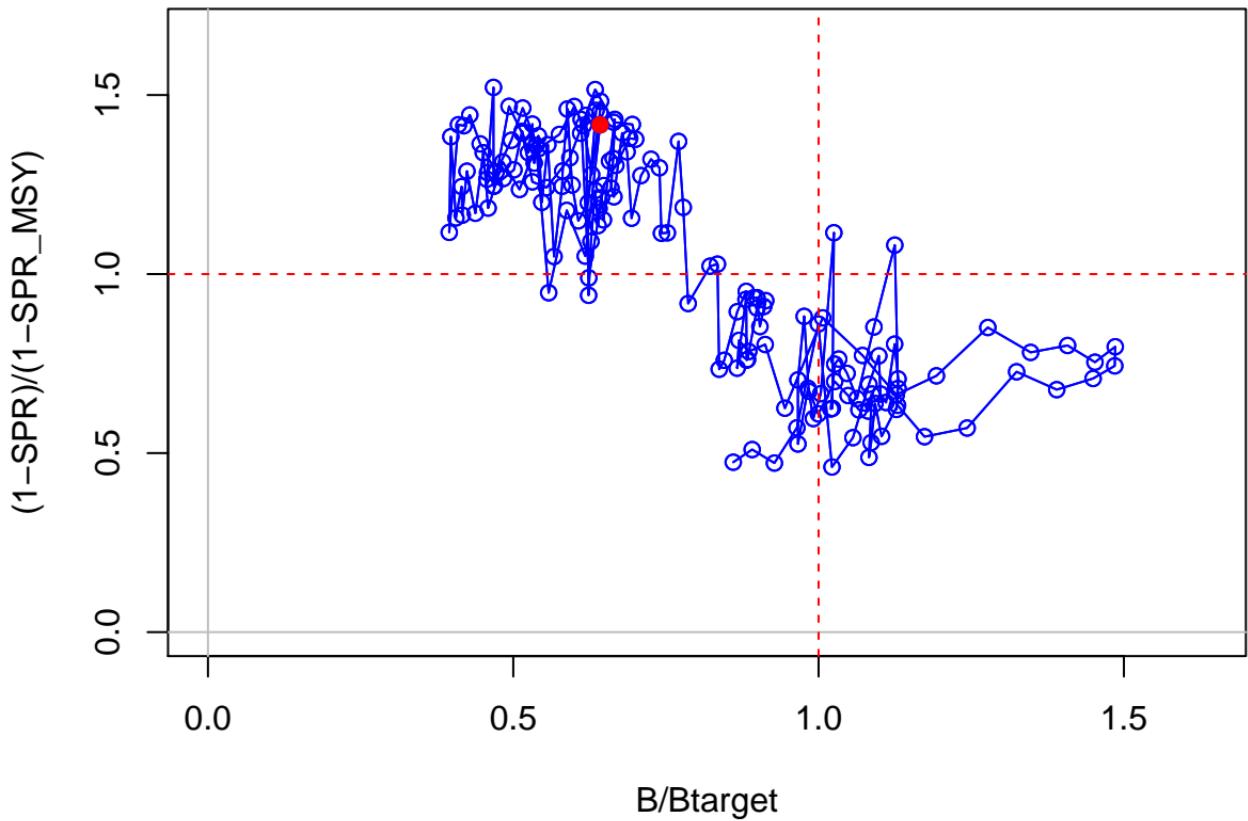




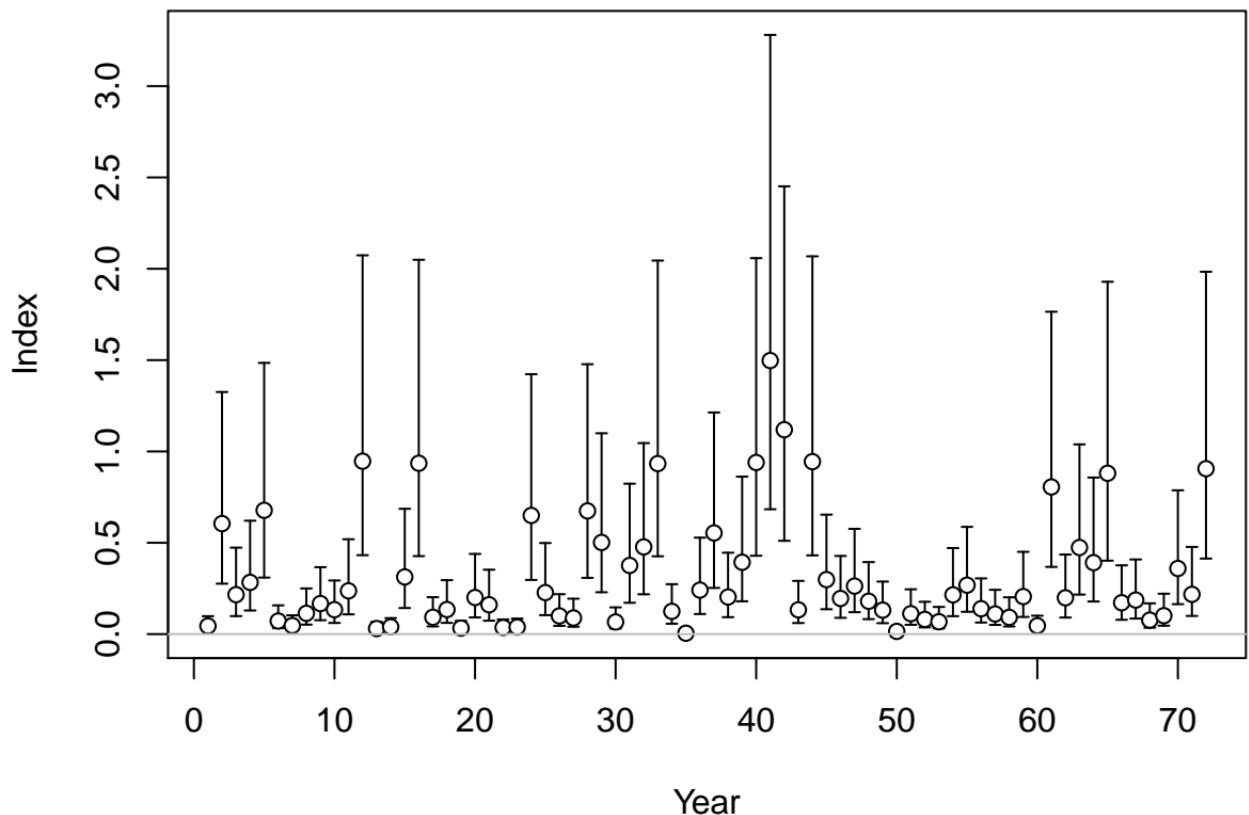




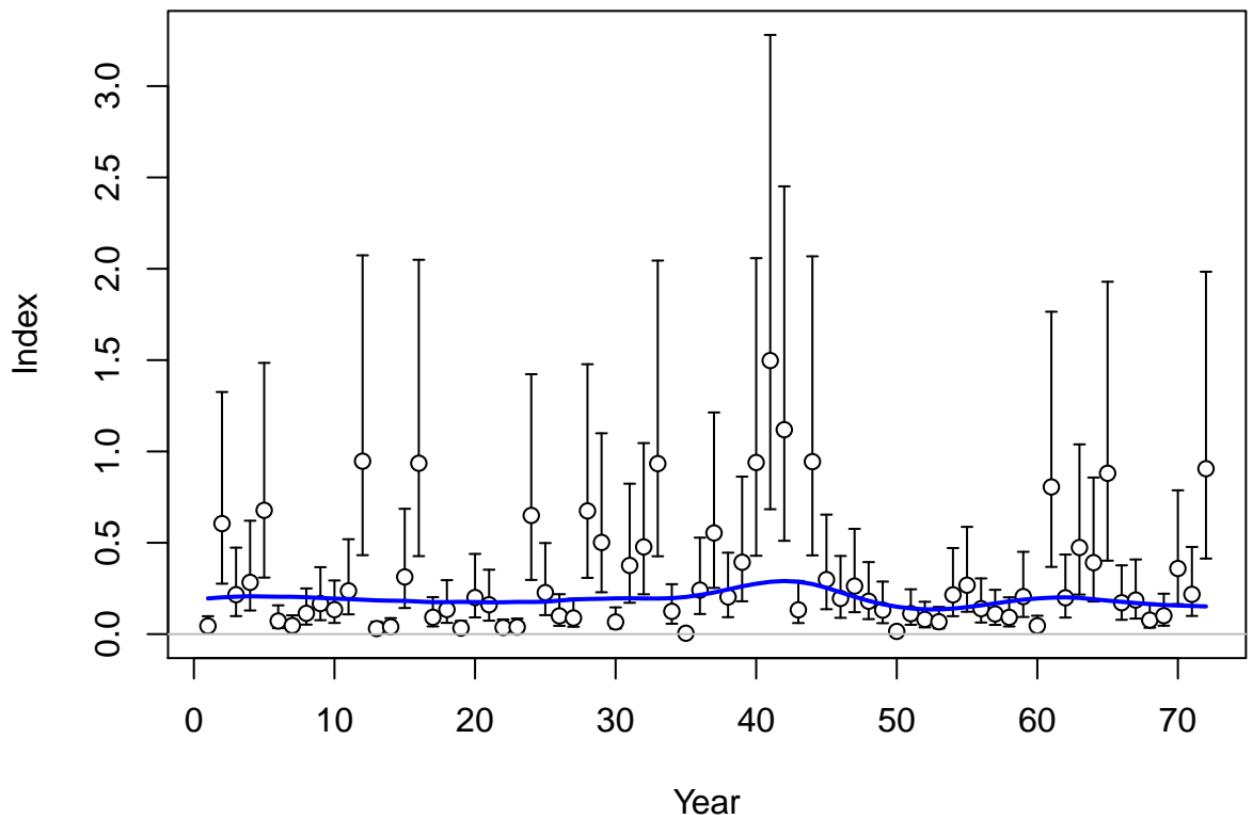




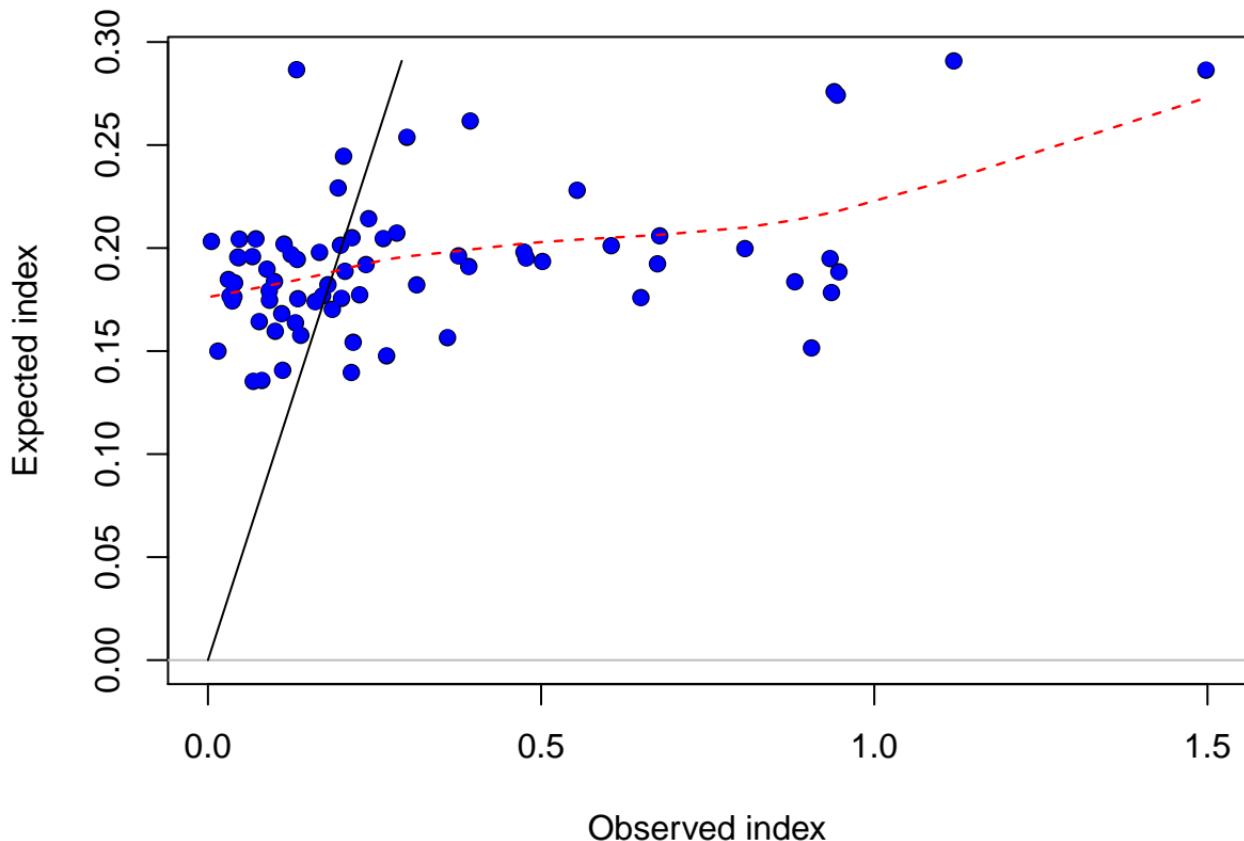
Index F1–OBJ_early



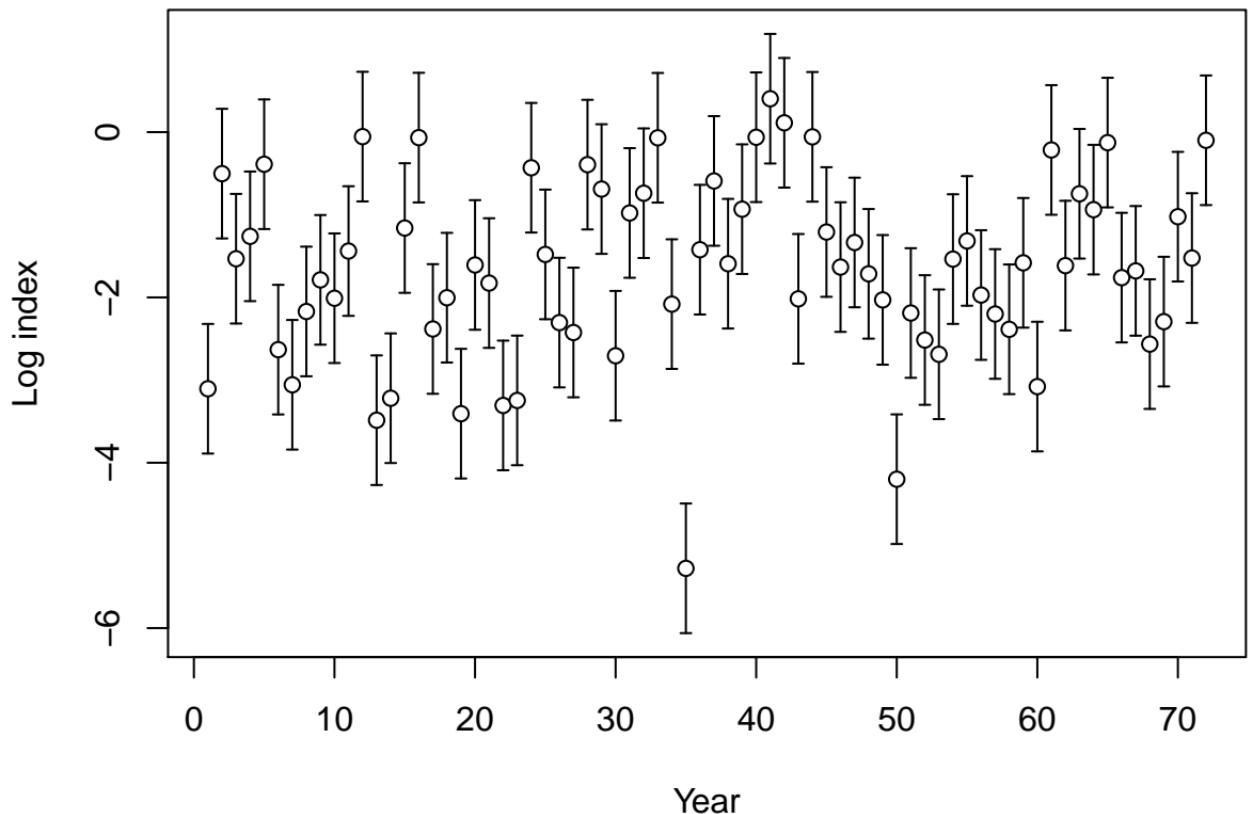
Index F1–OBJ_early



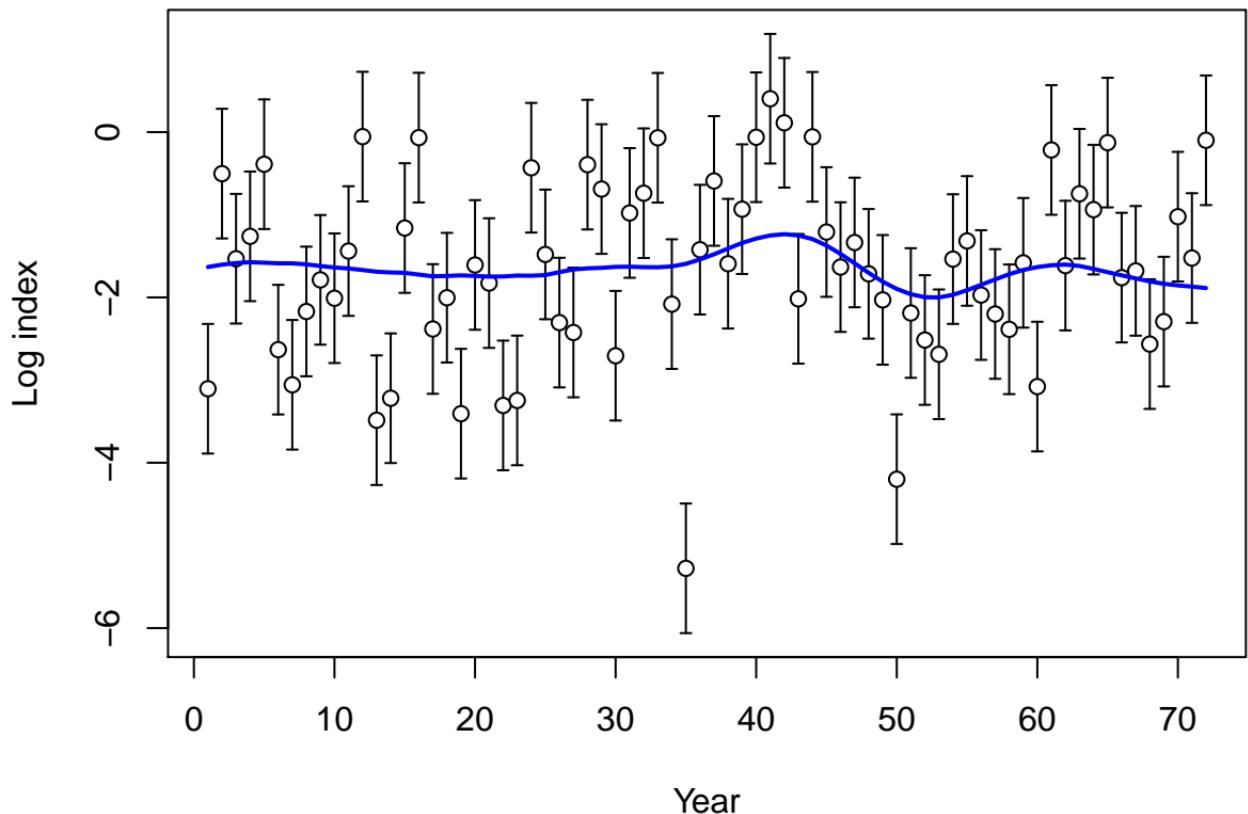
Index F1–OBJ_early



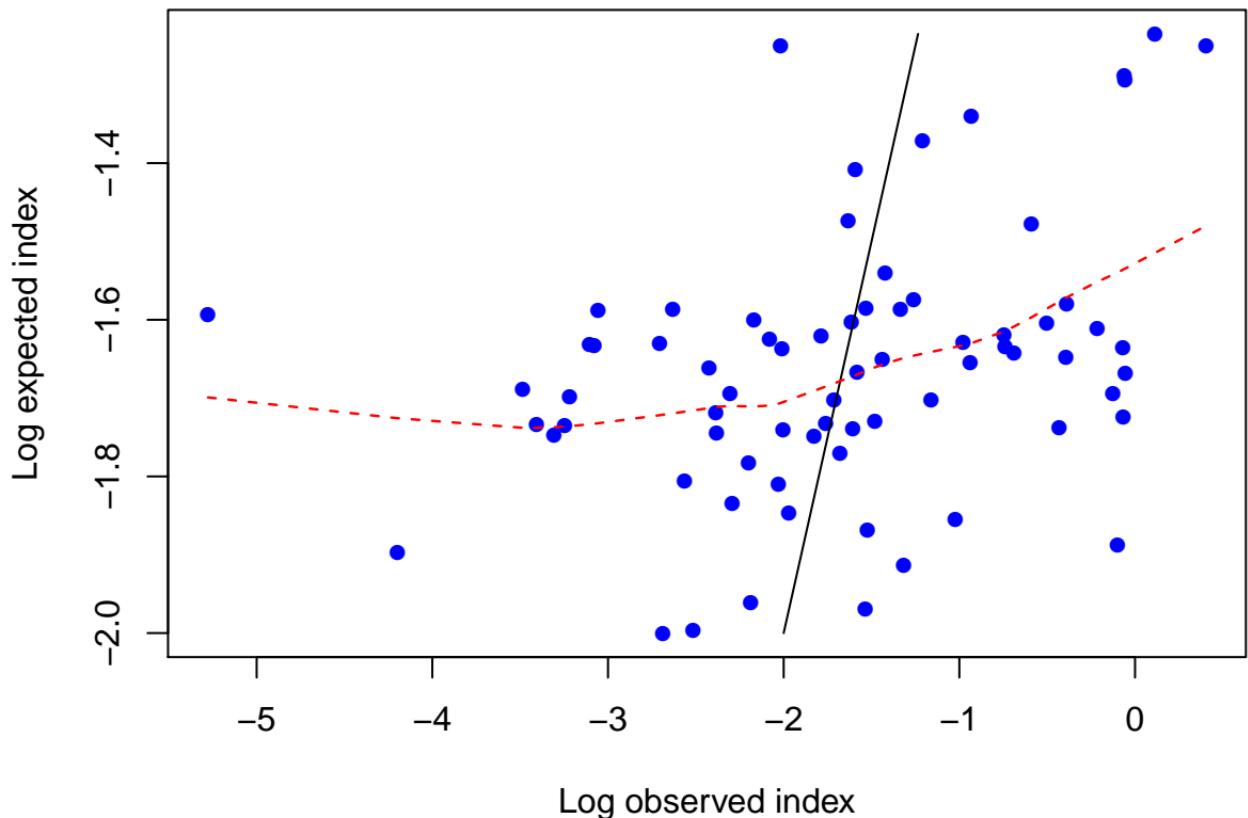
Log index F1–OBJ_early



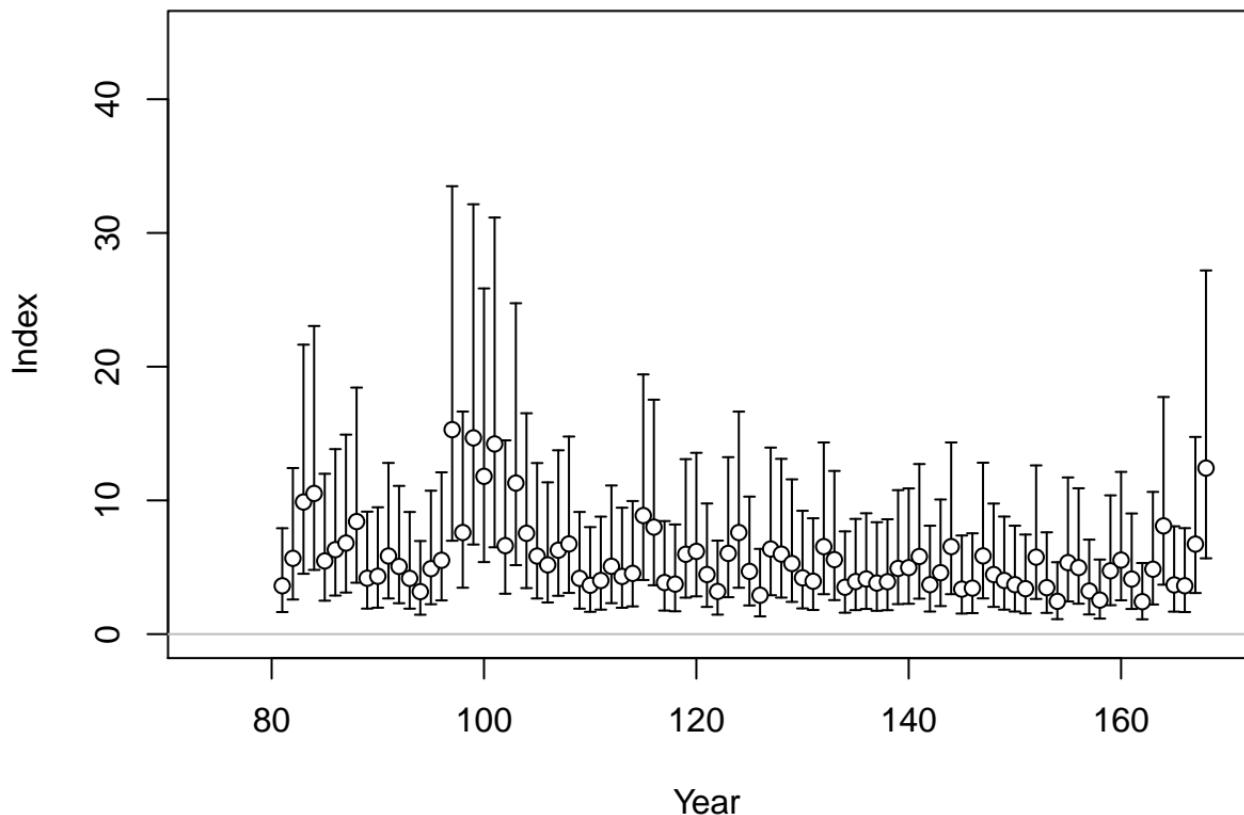
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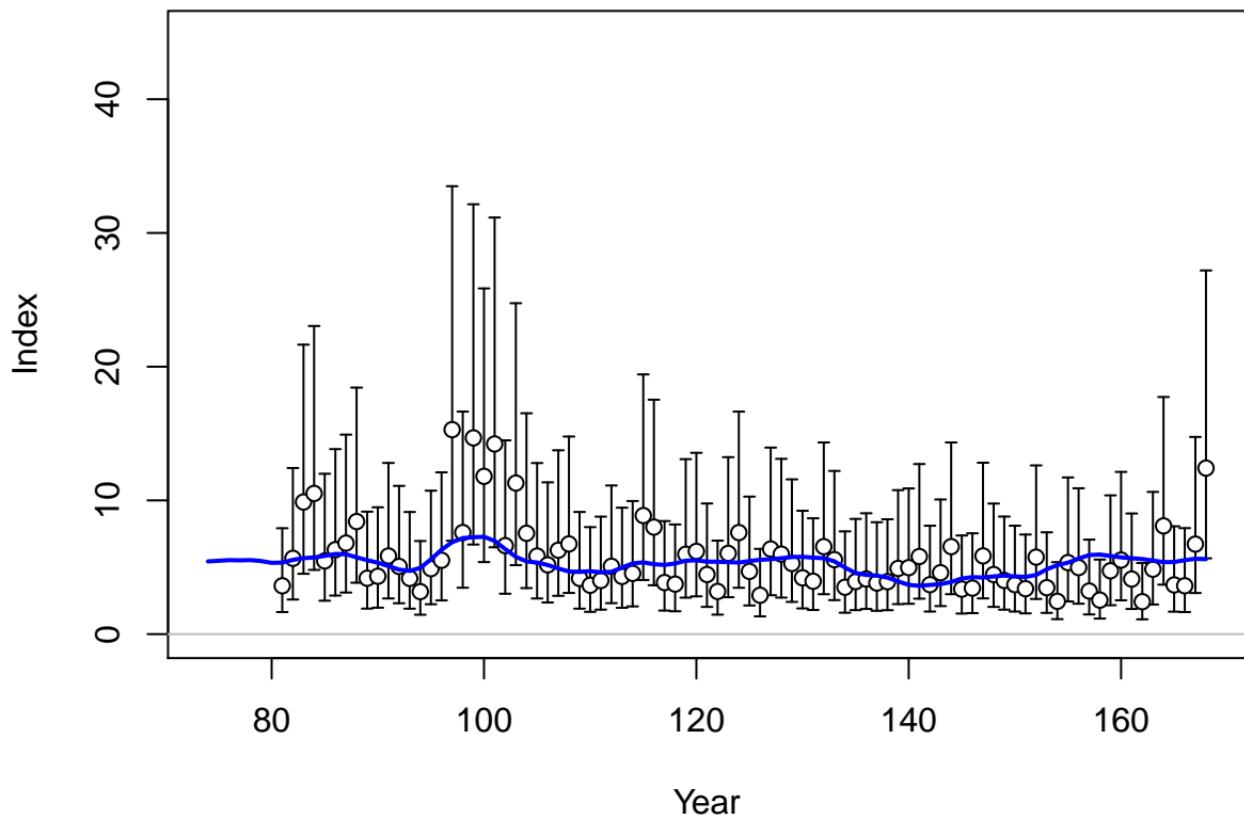
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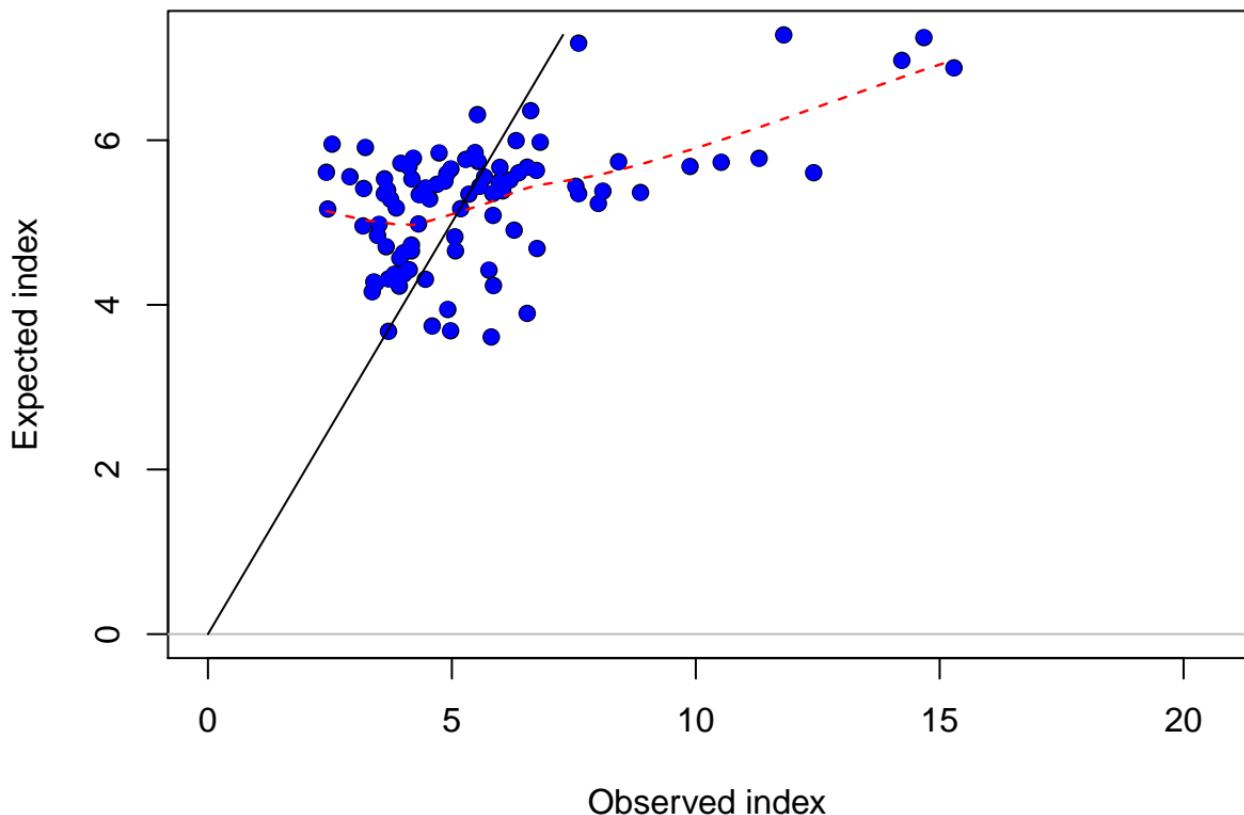
Index F2-OBJ_S



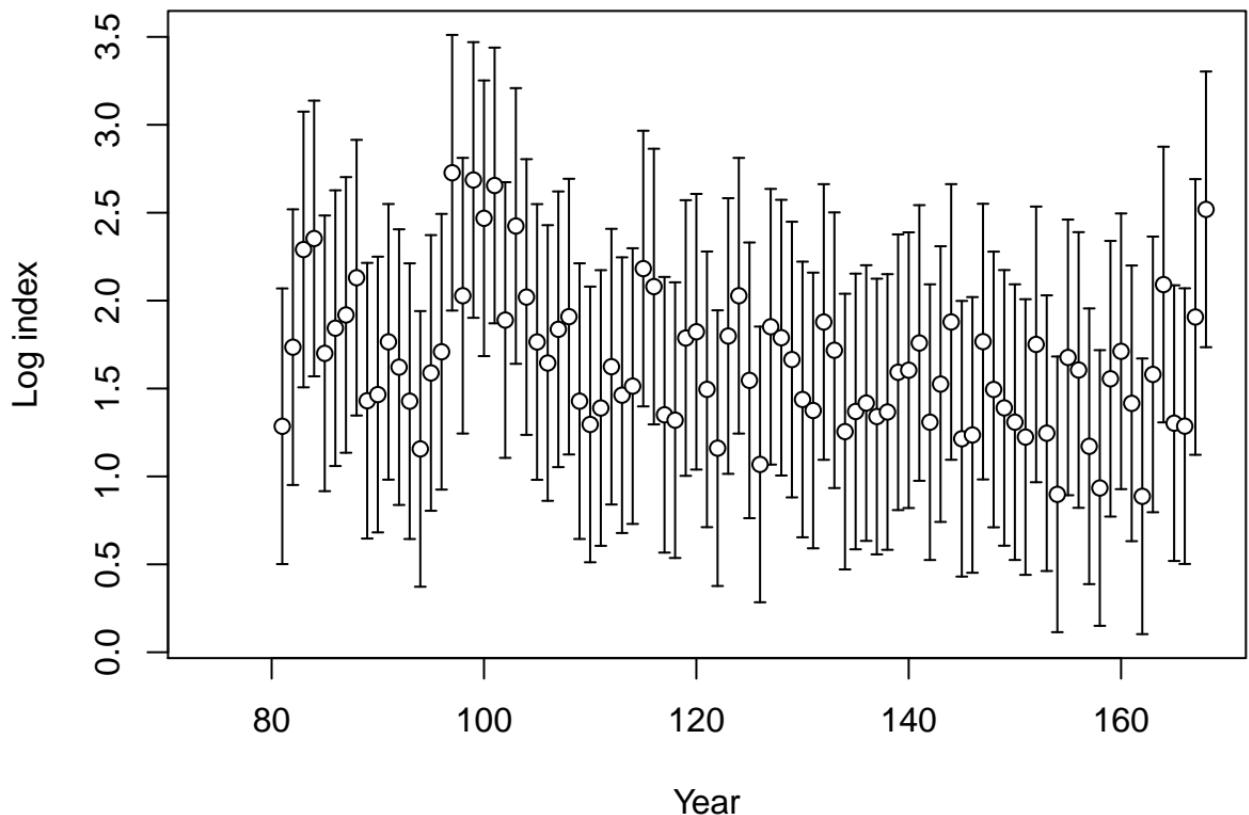
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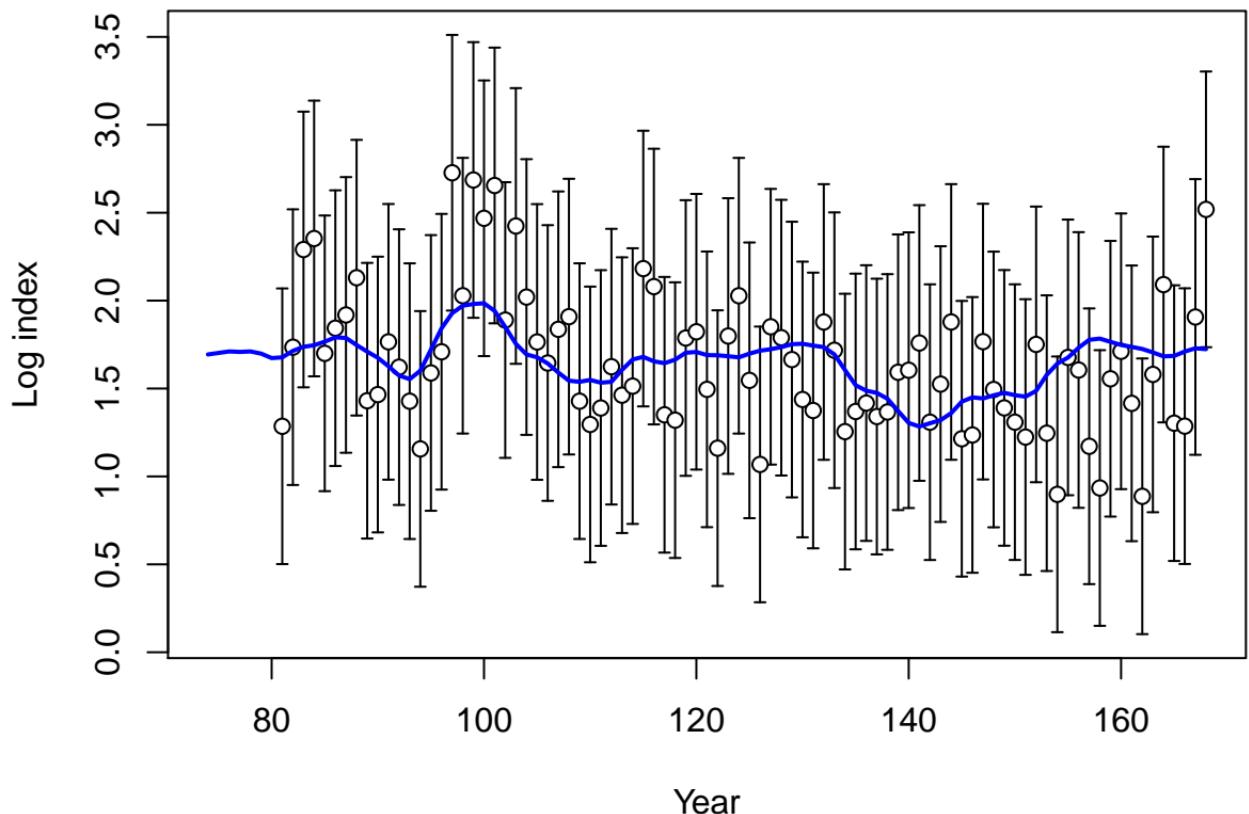
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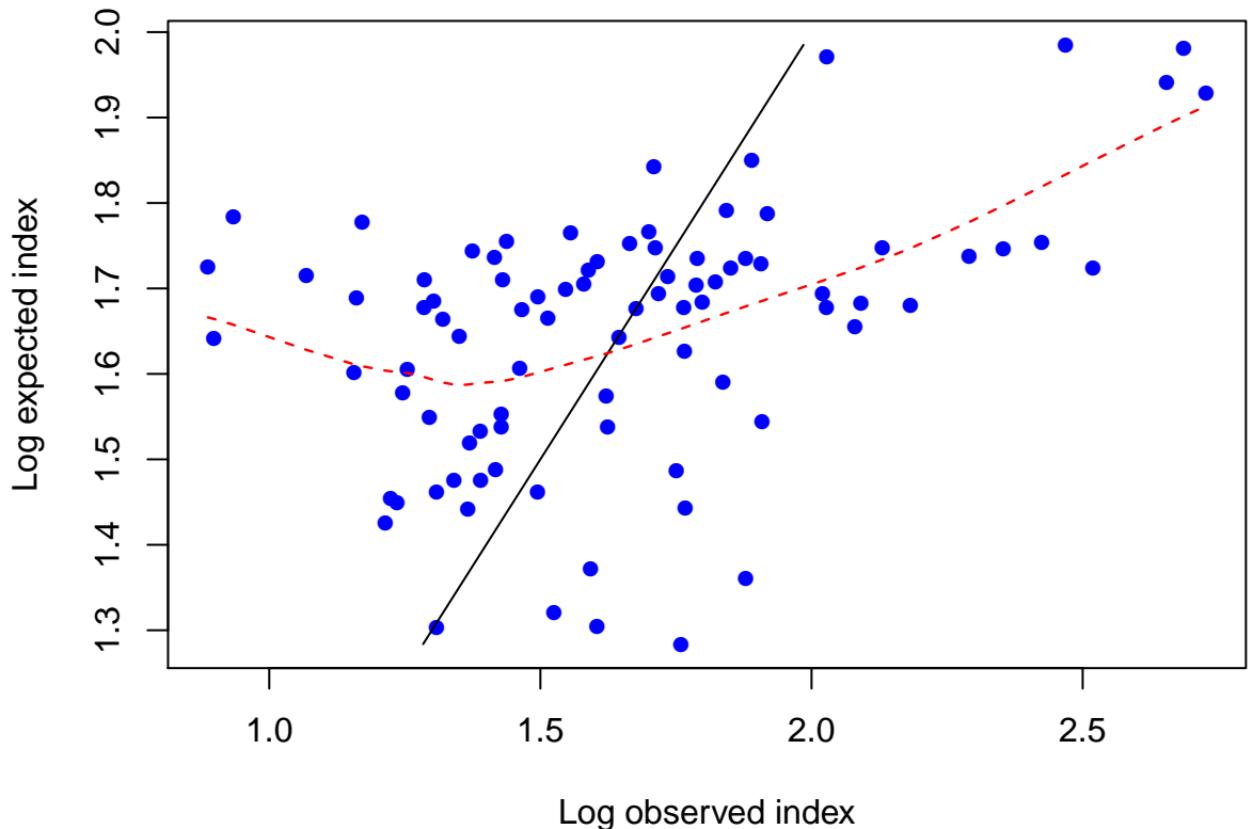
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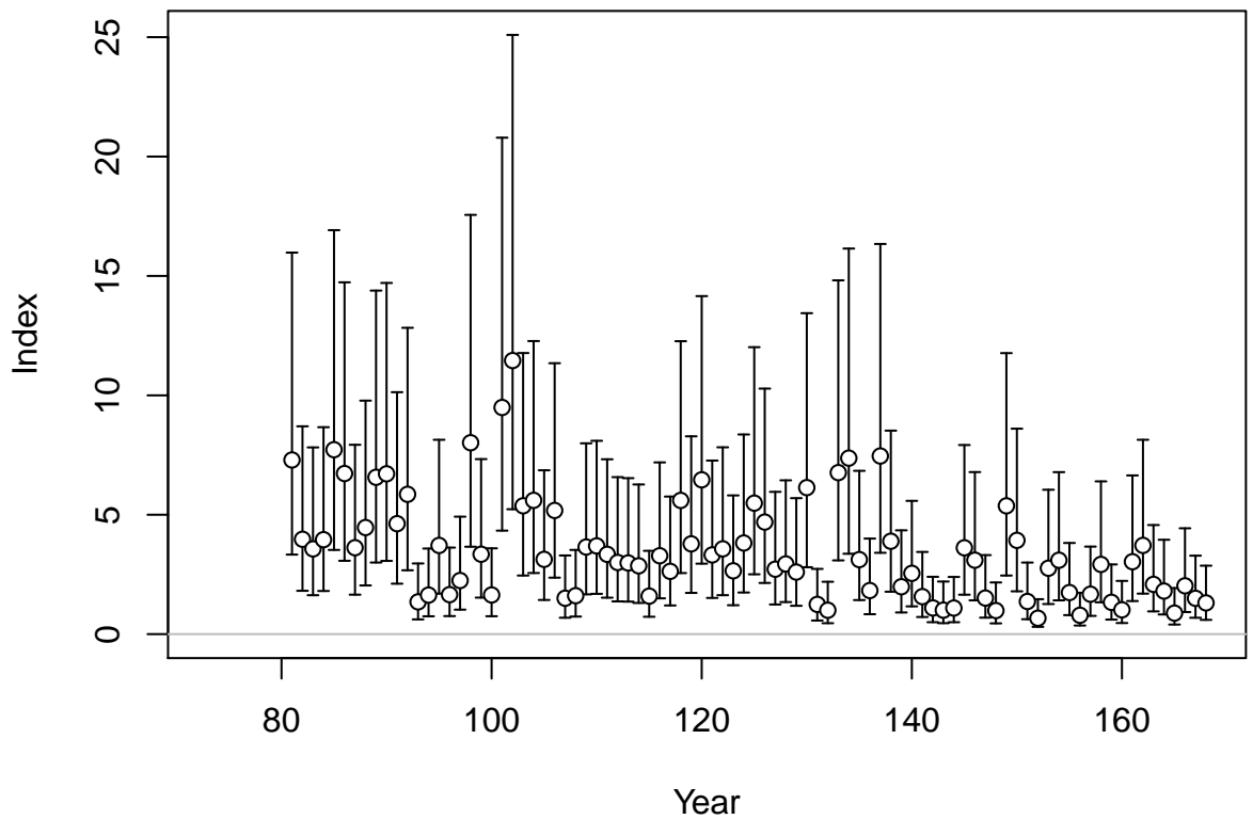
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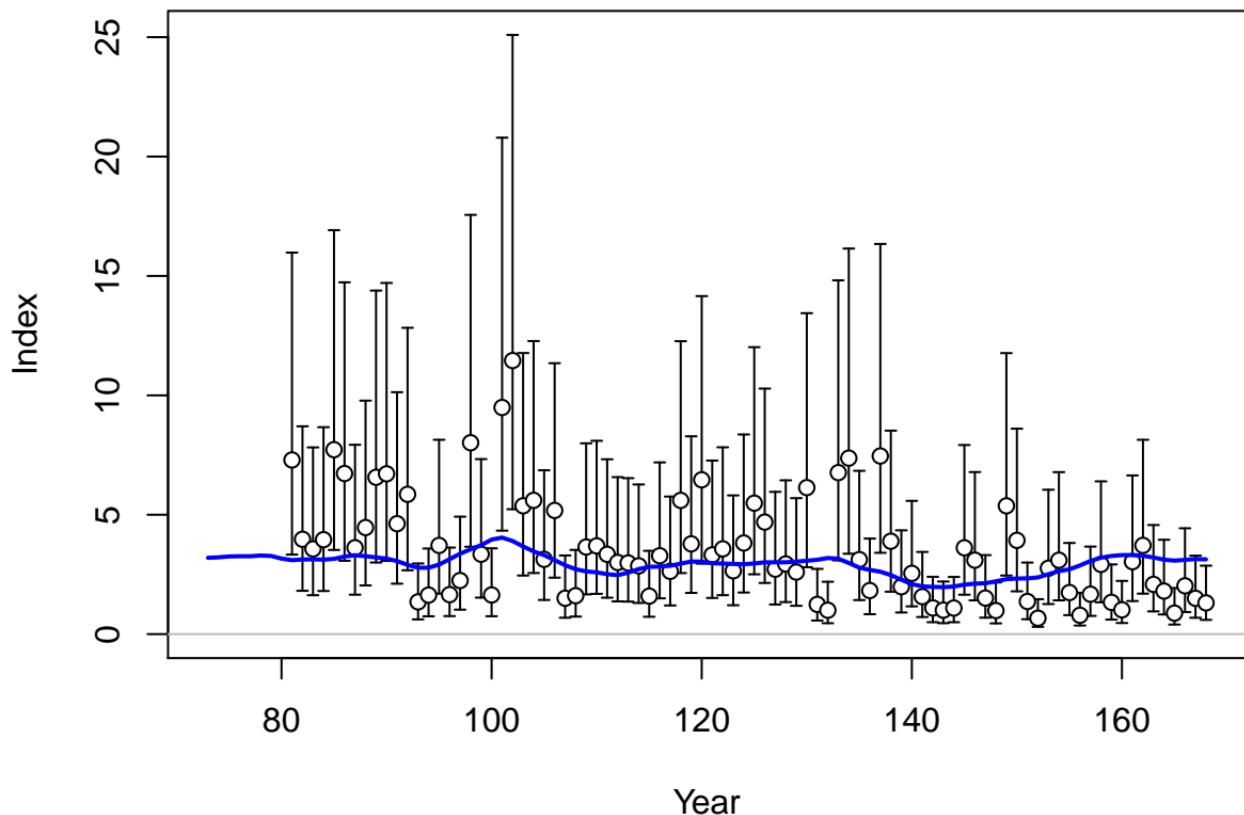
Log index F2-OBJ_S



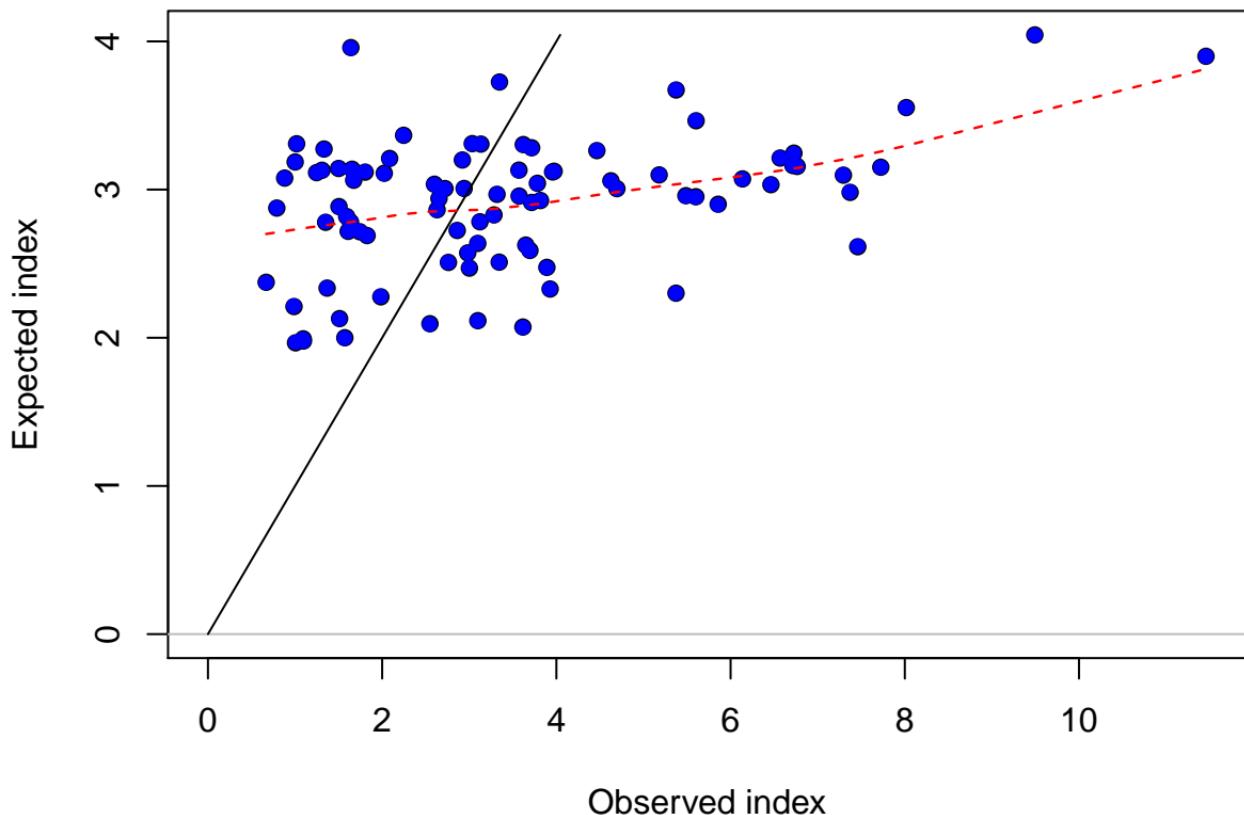
Index F3-OBJ_C



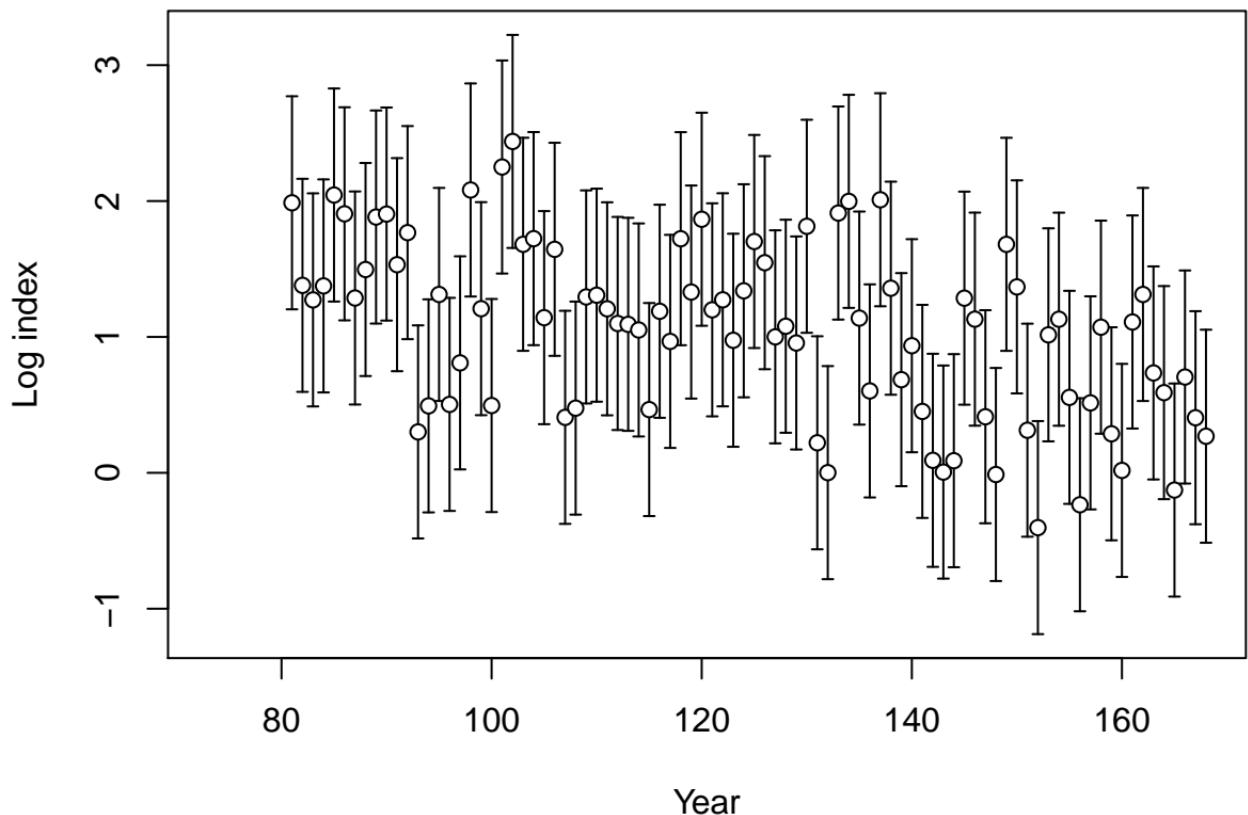
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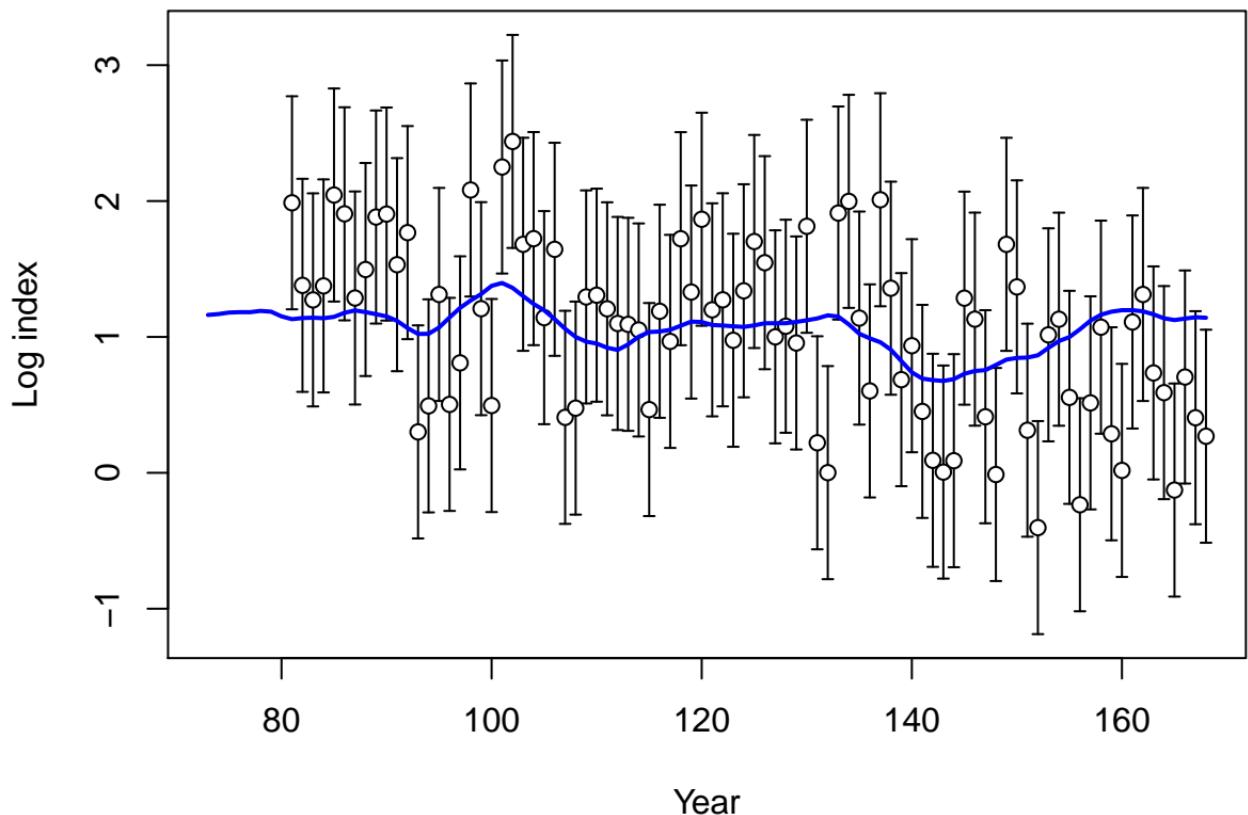
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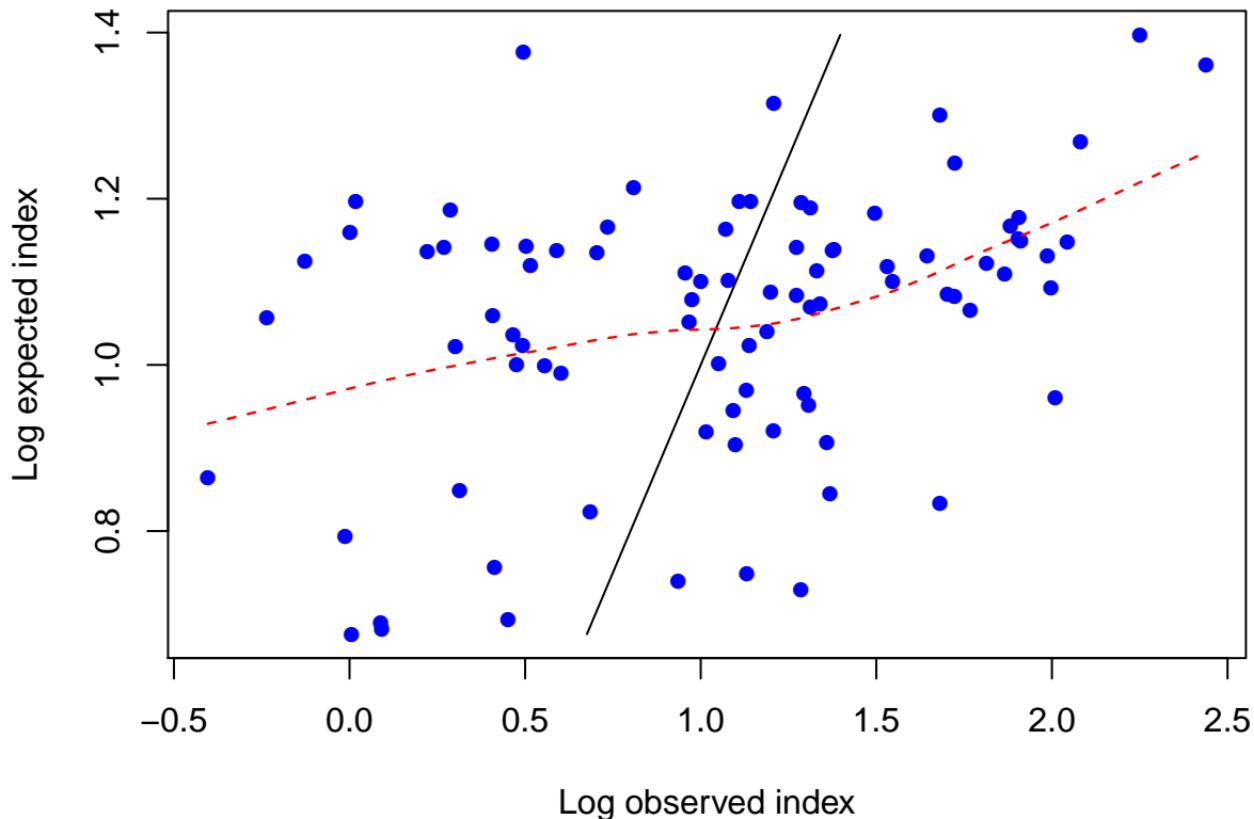
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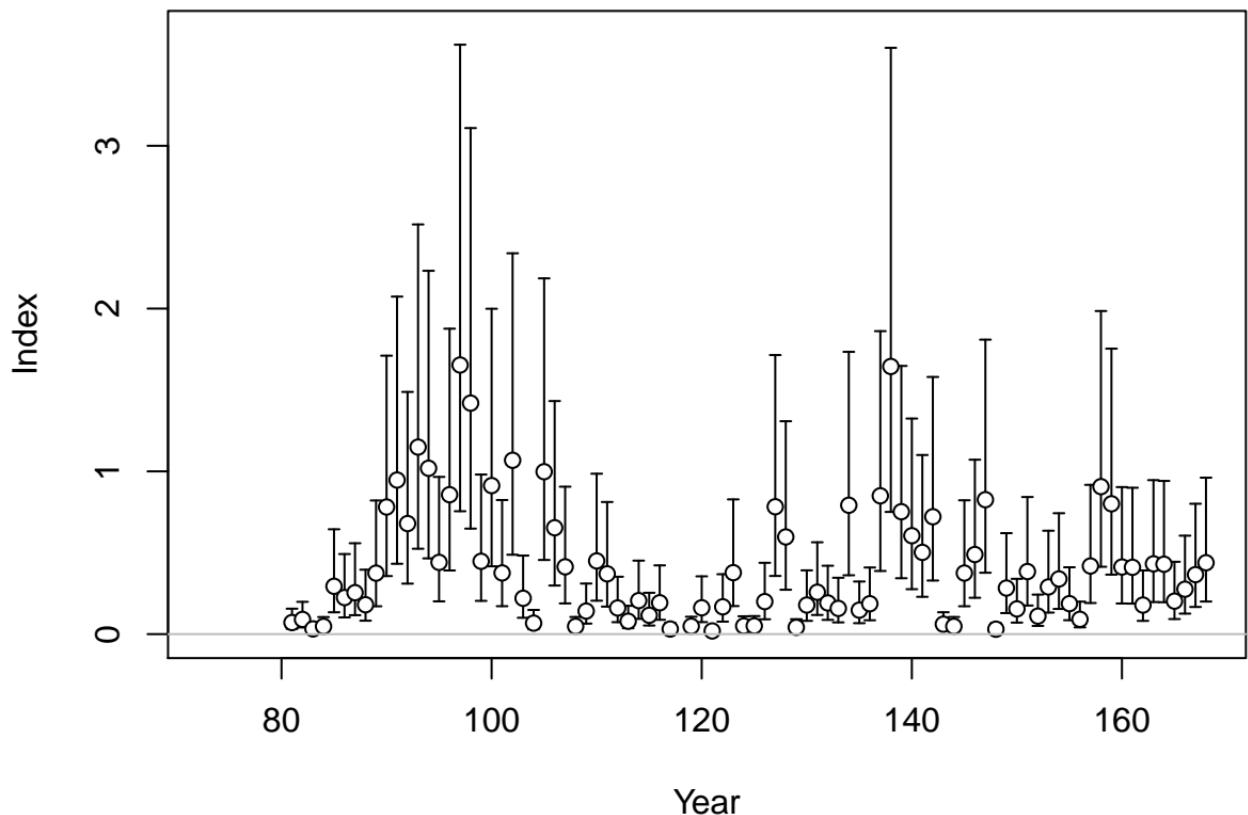
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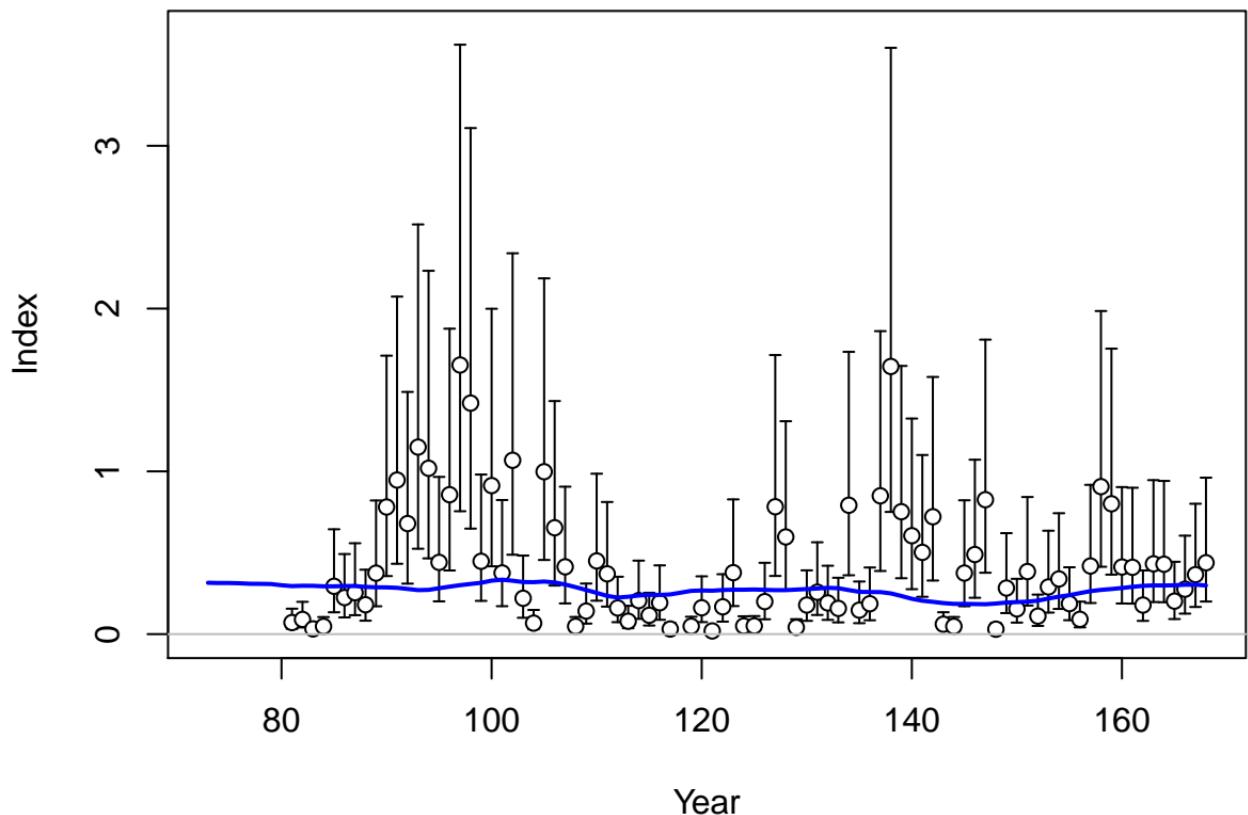
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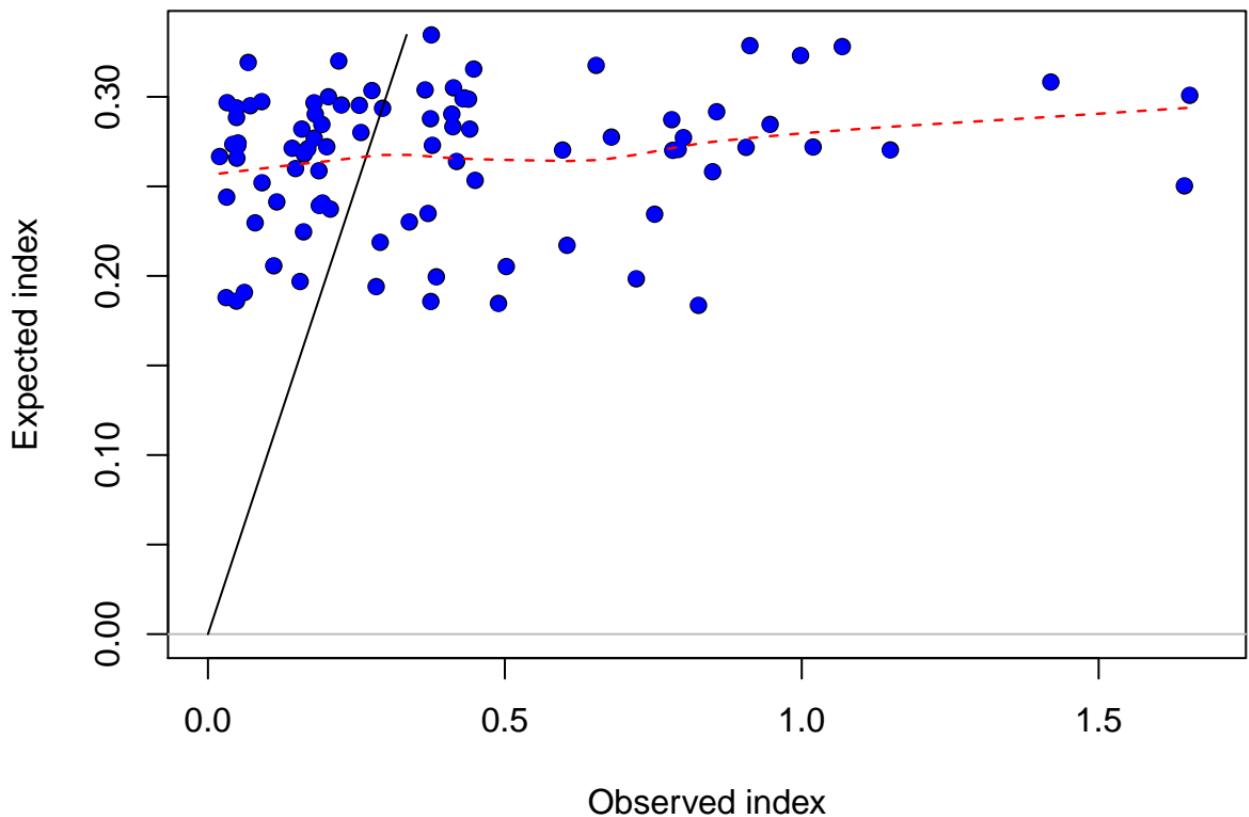
Index F4–OBJ_I



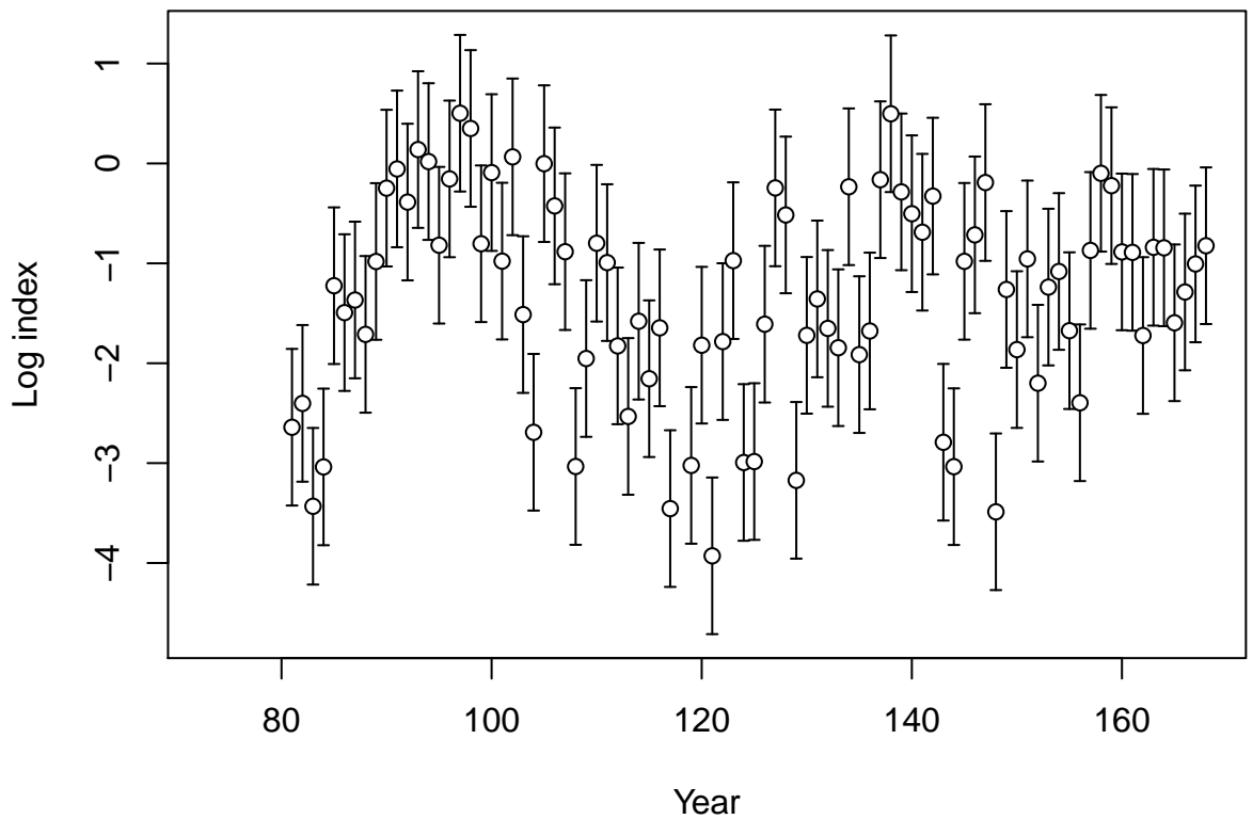
Index F4–OBJ_I



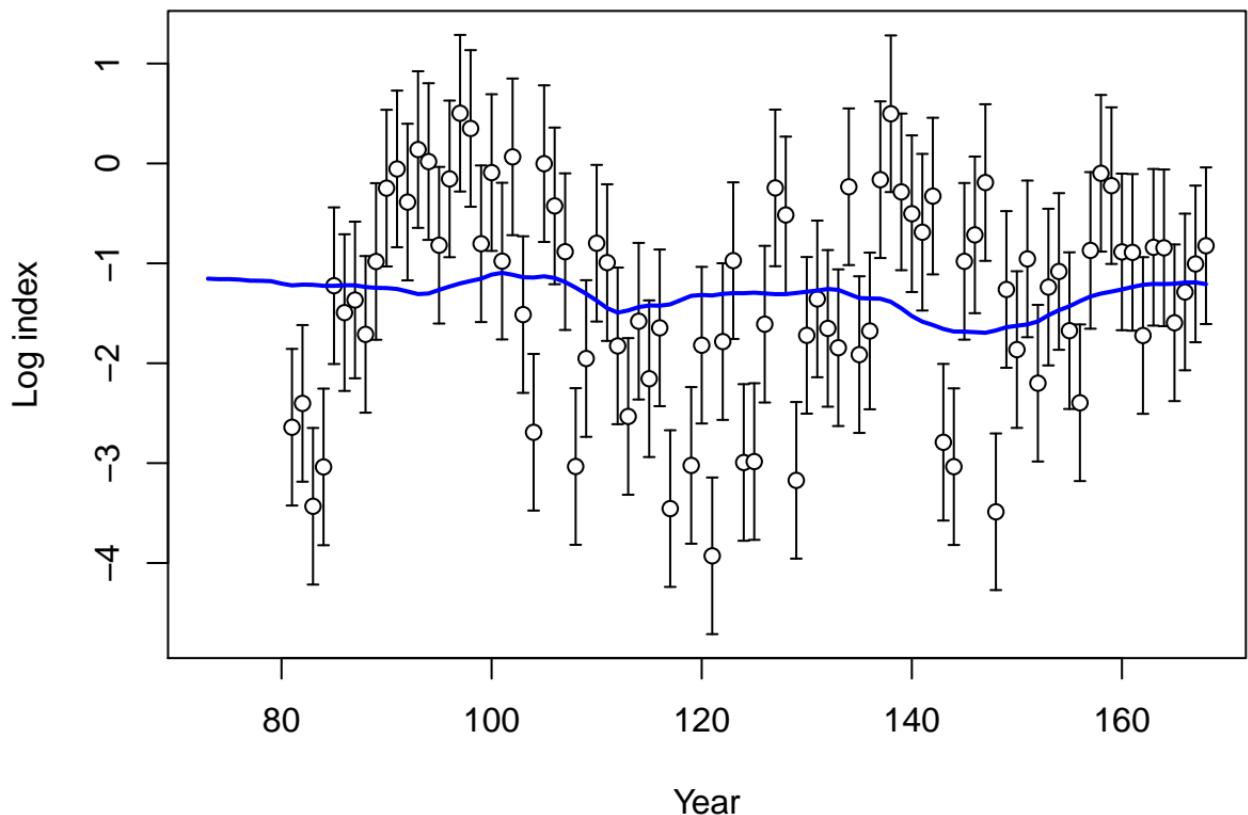
Index F4–OBJ_I



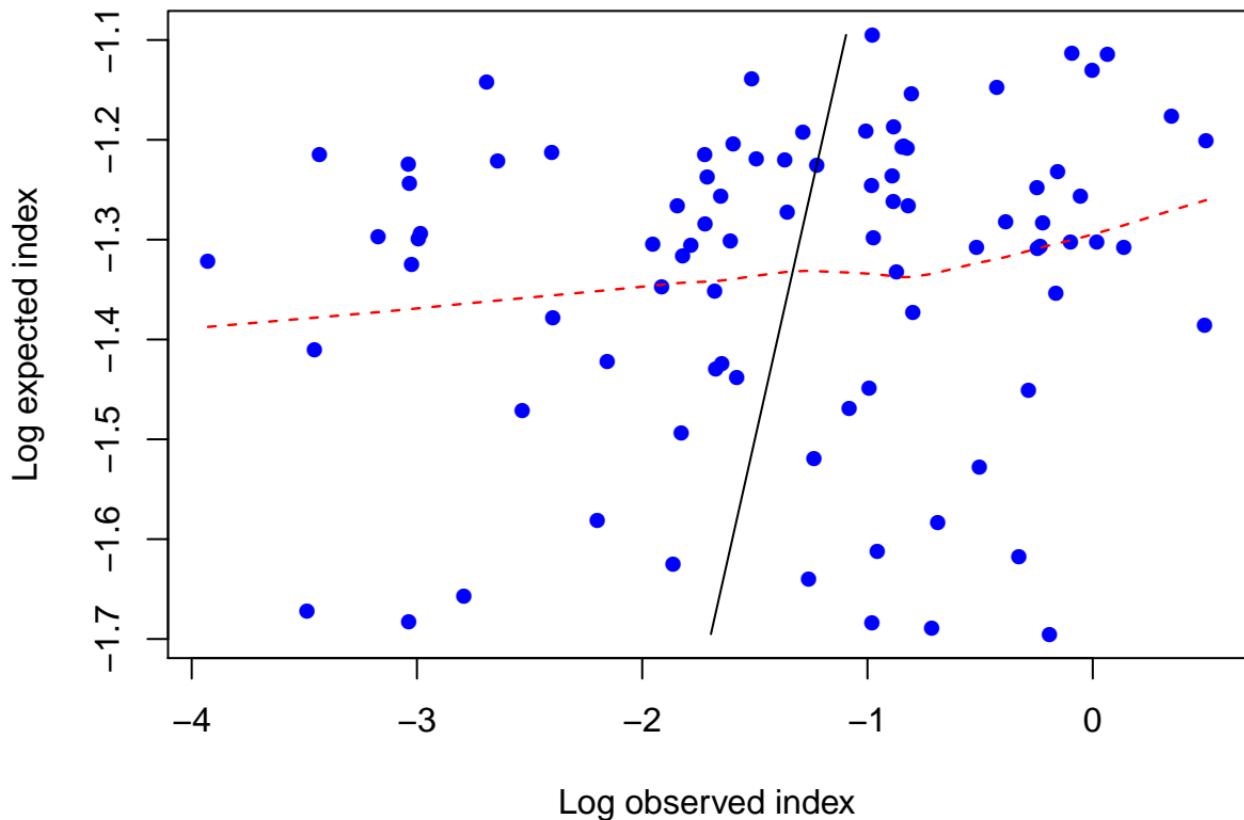
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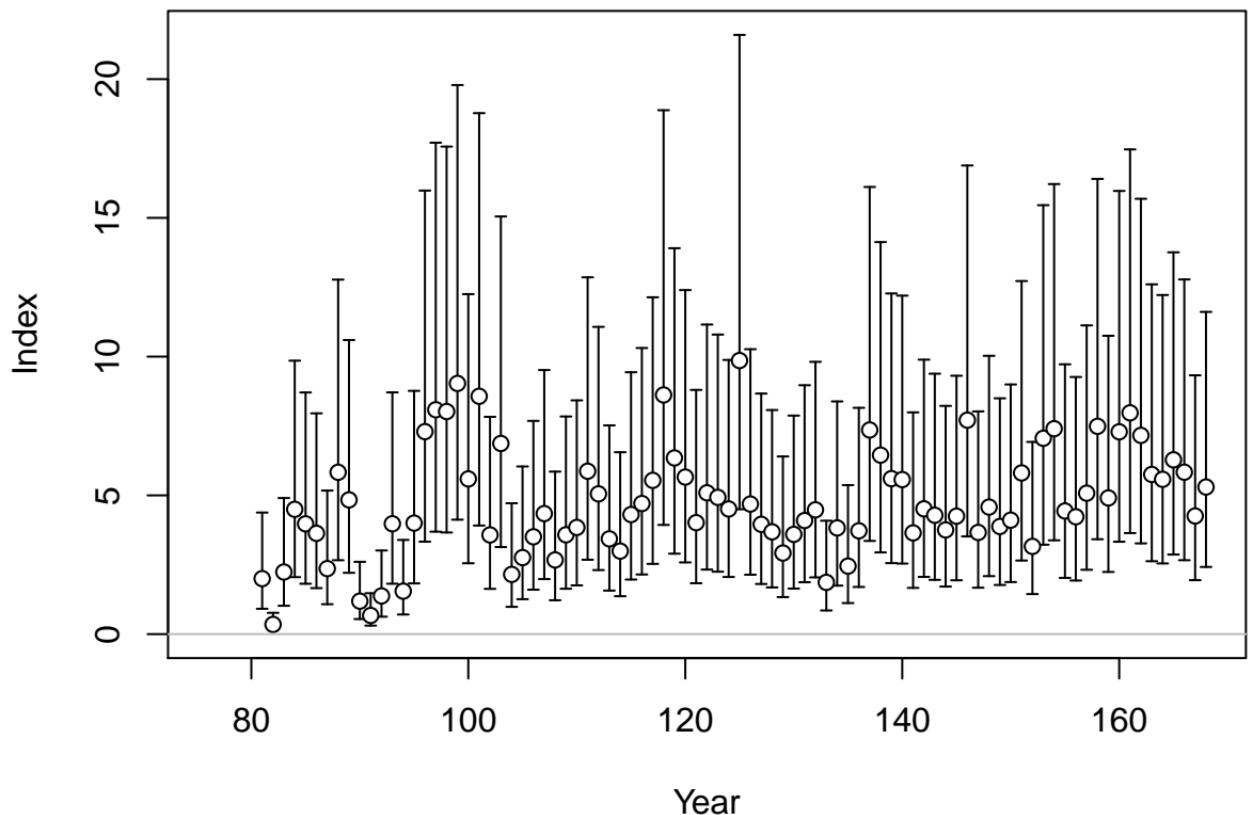
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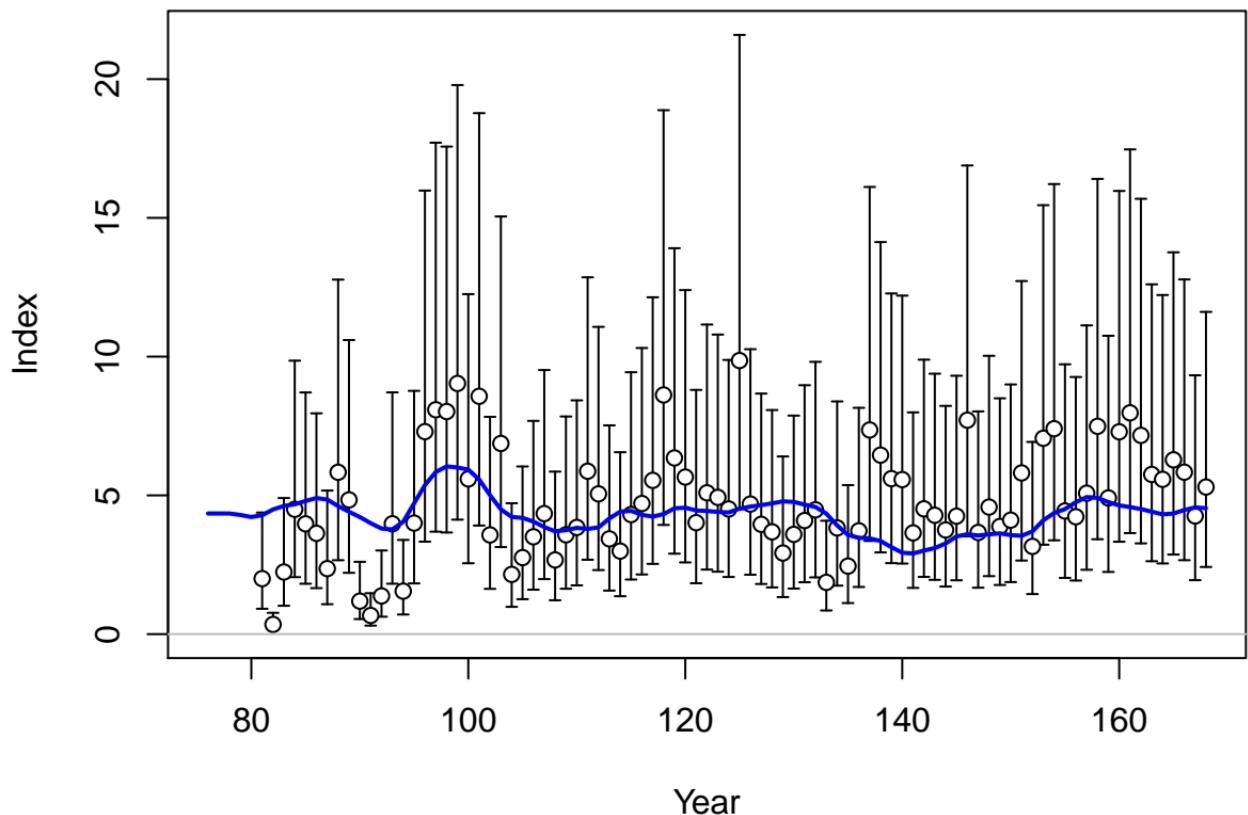
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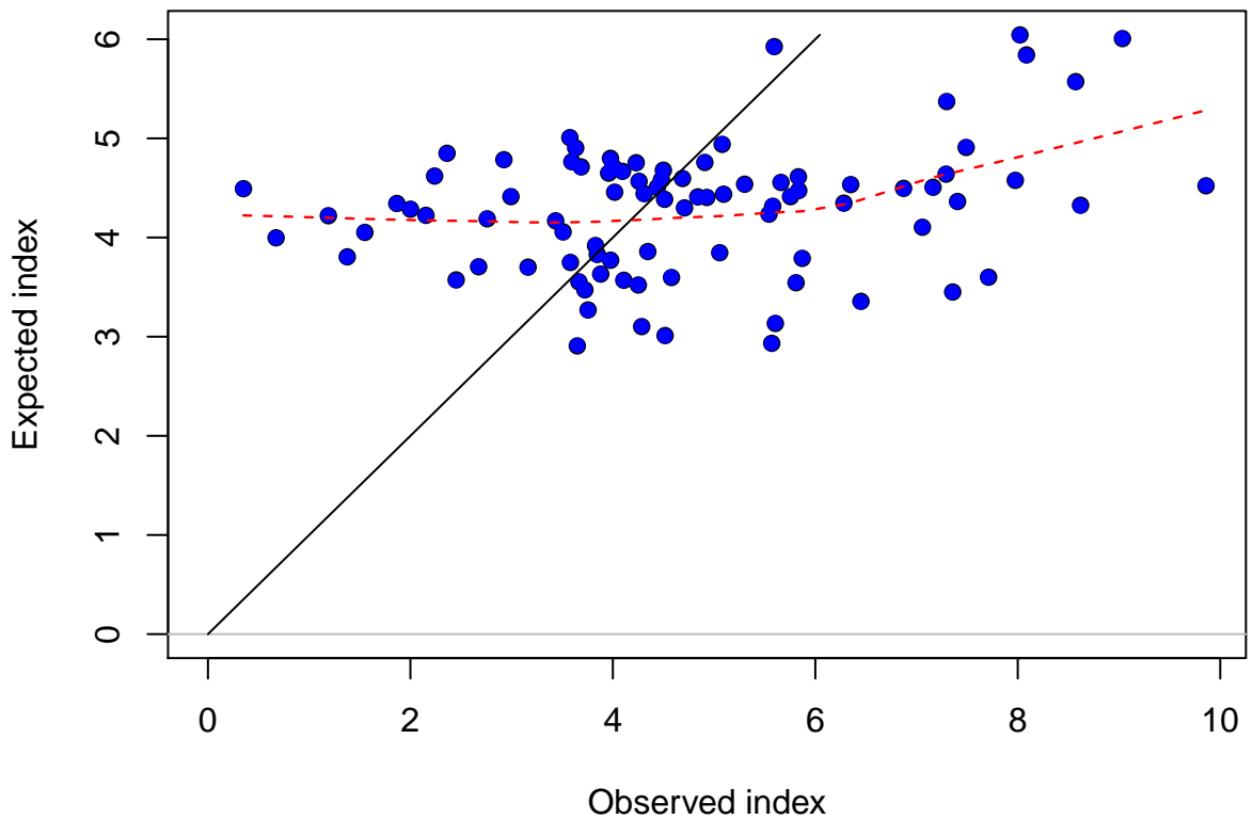
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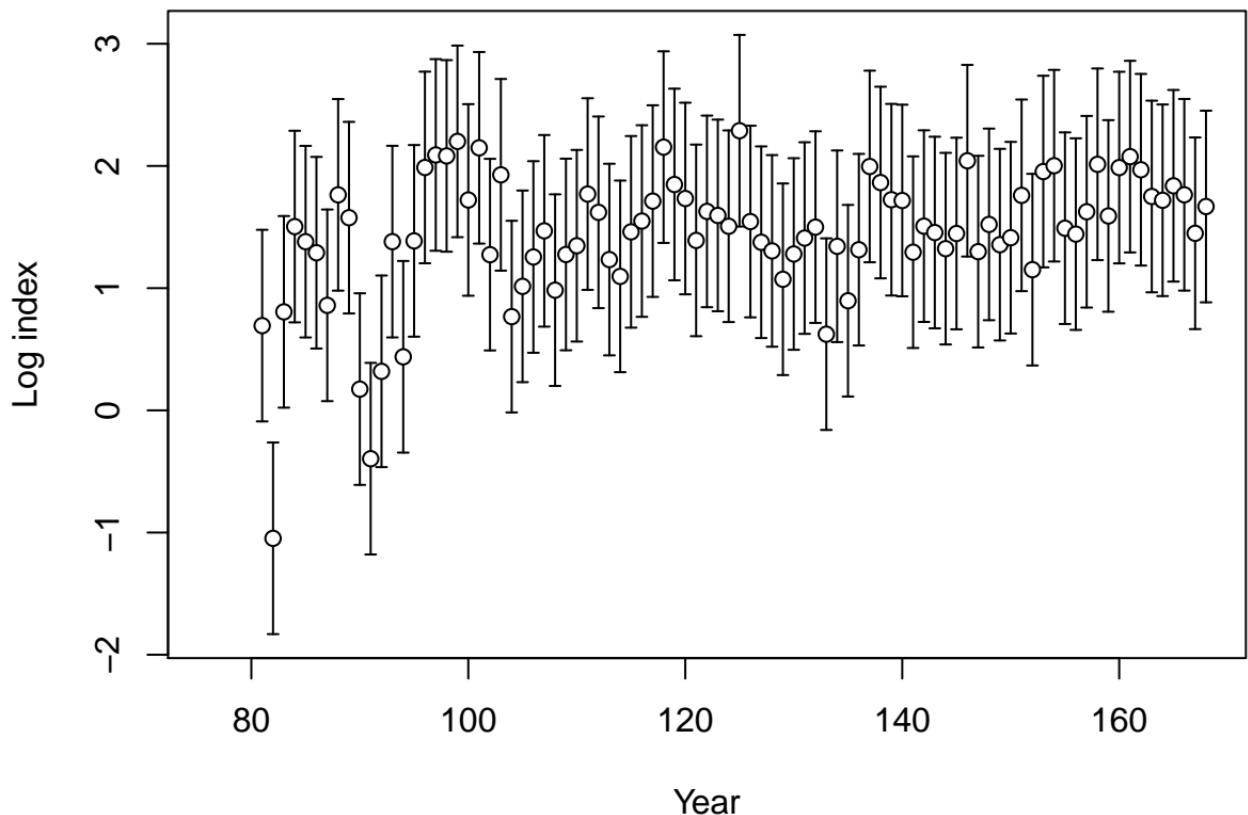
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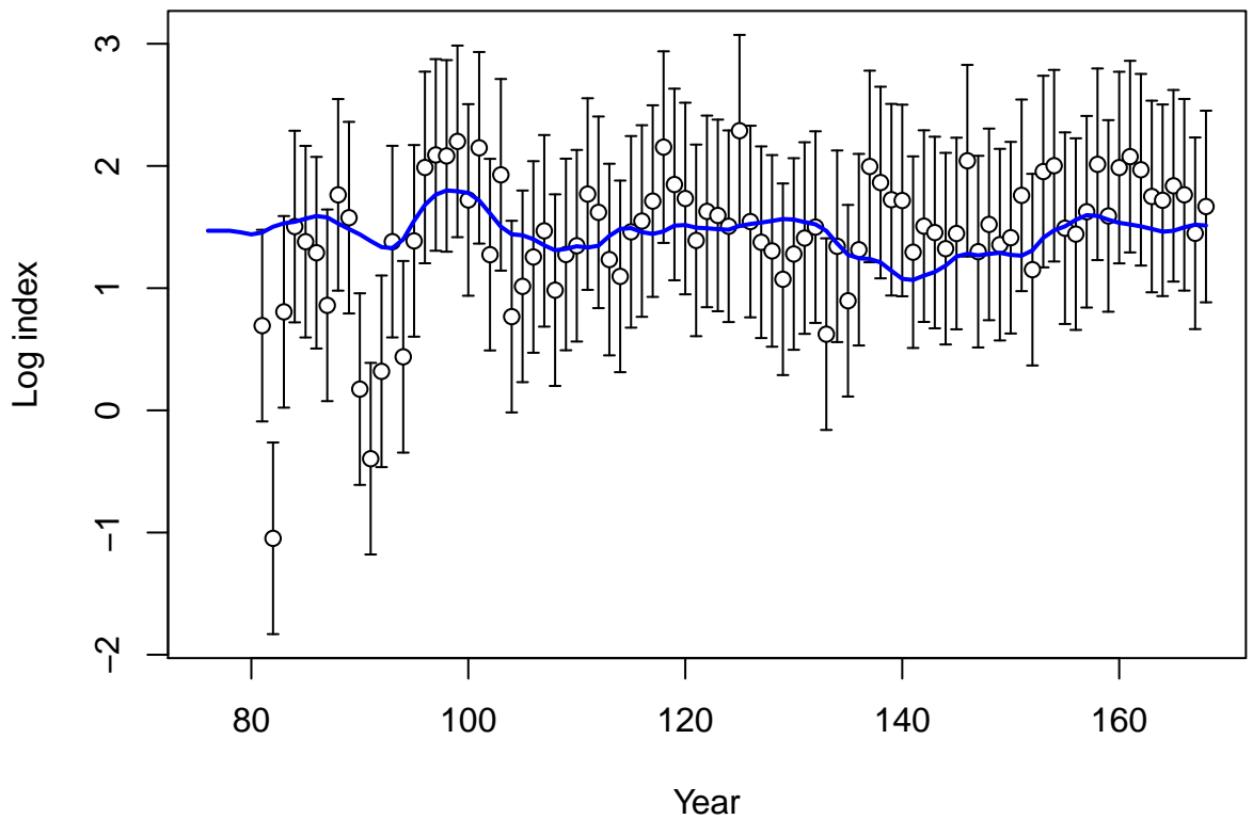
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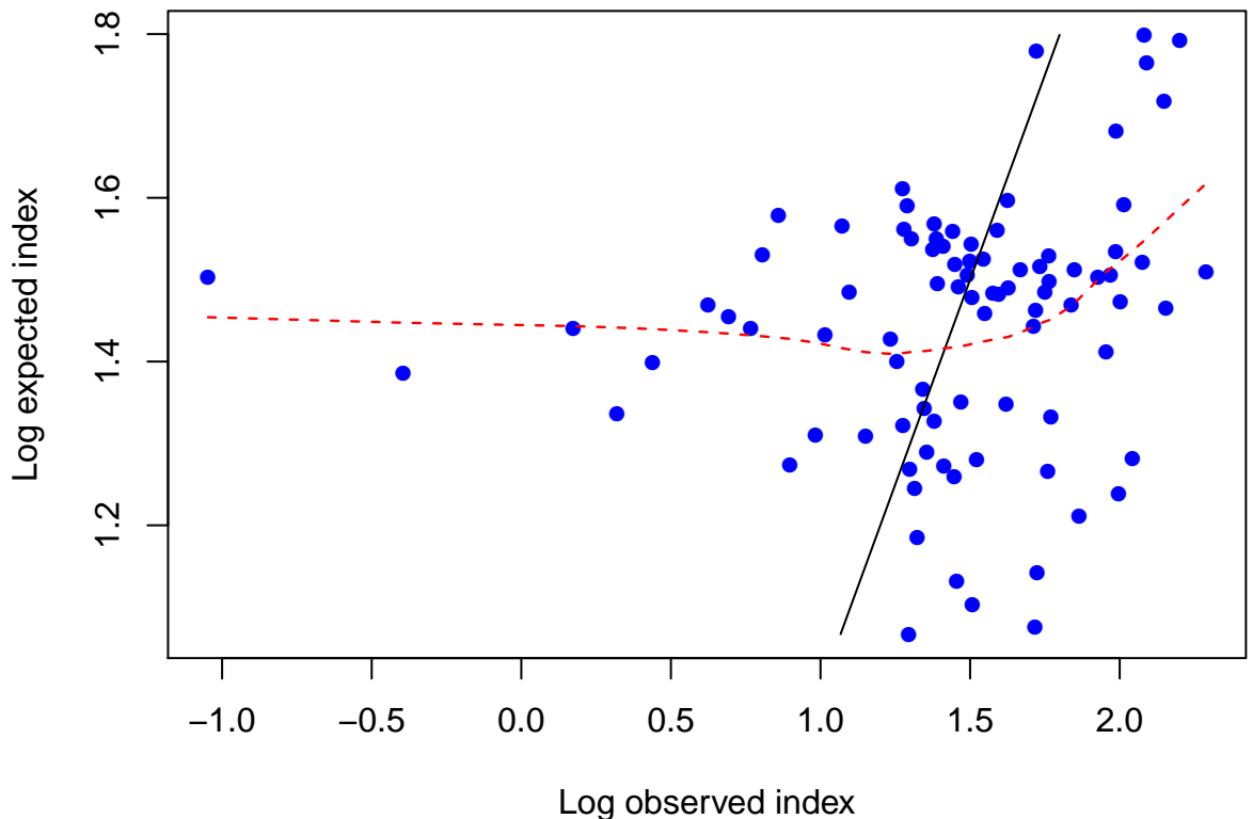
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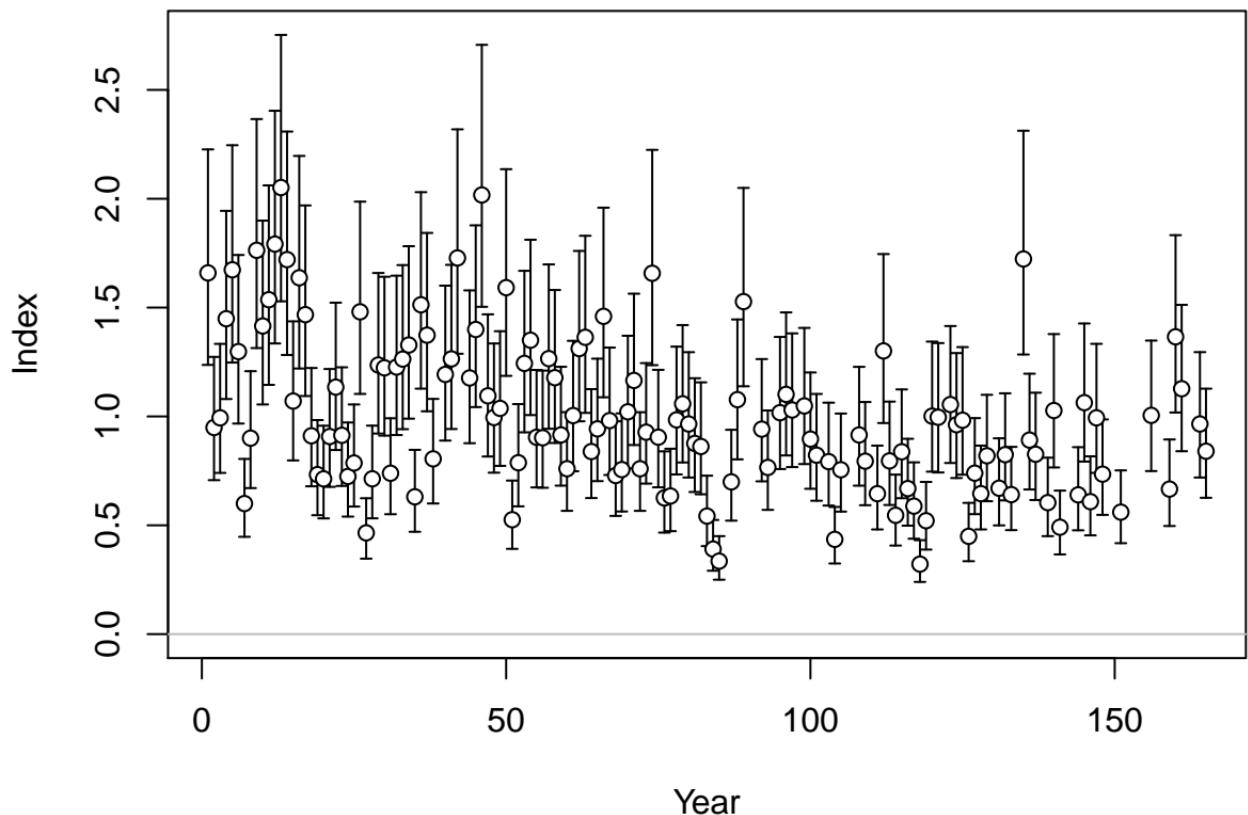
Log index F5–OBJ_N



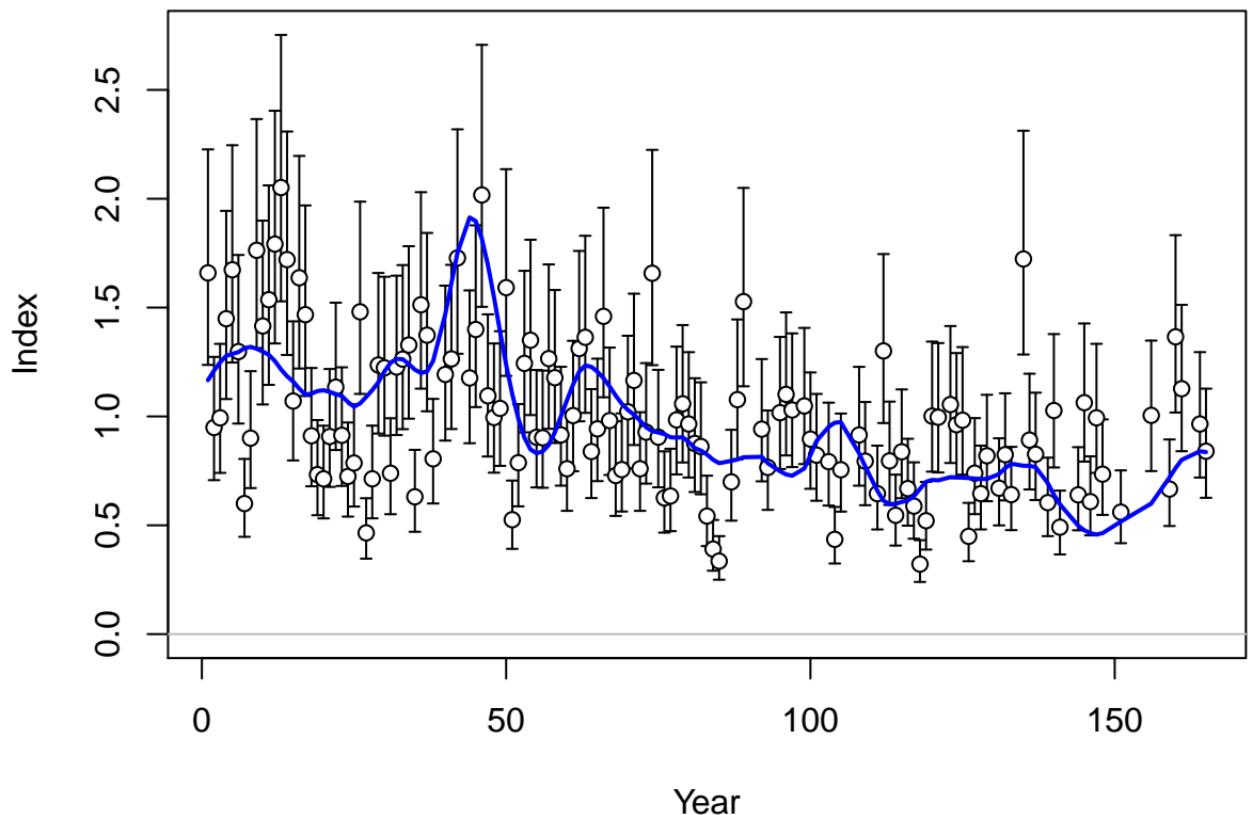
Log index F5–OBJ_N



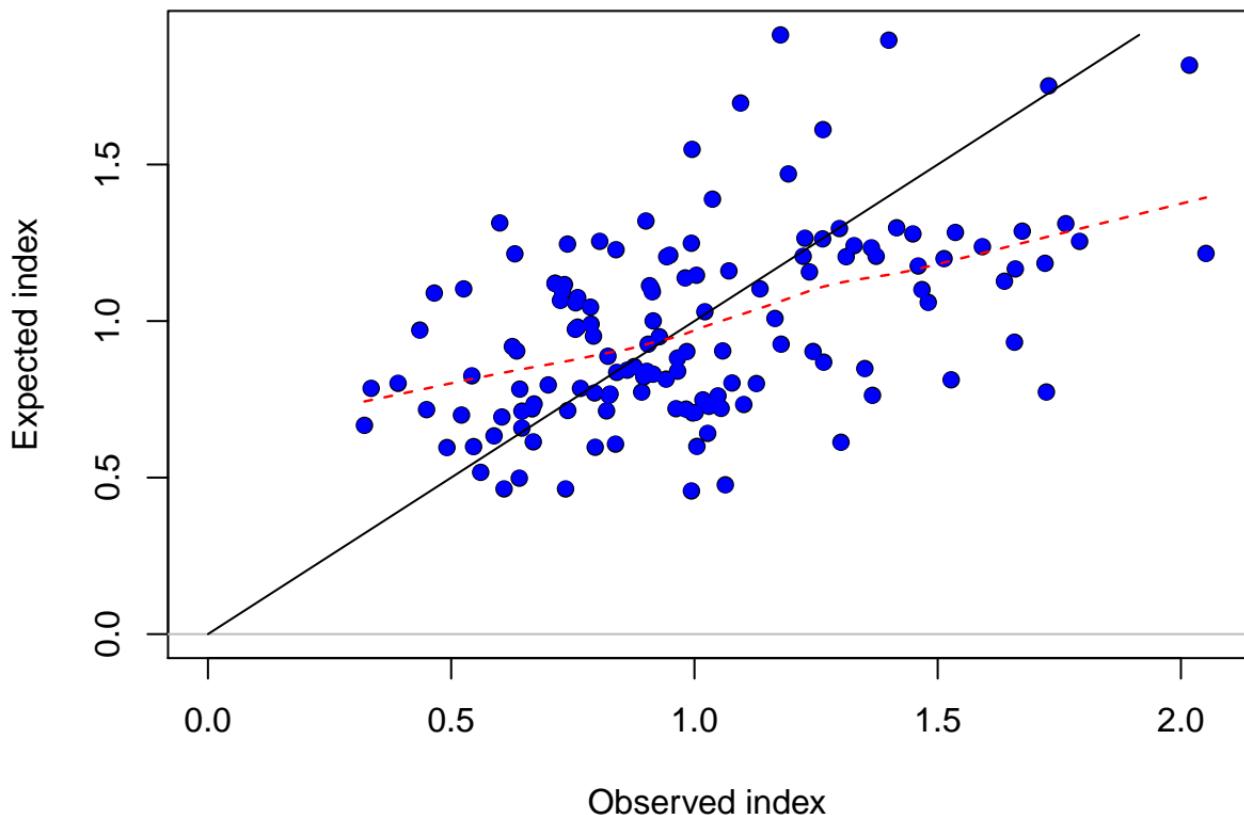
Index F12-LL_N_num



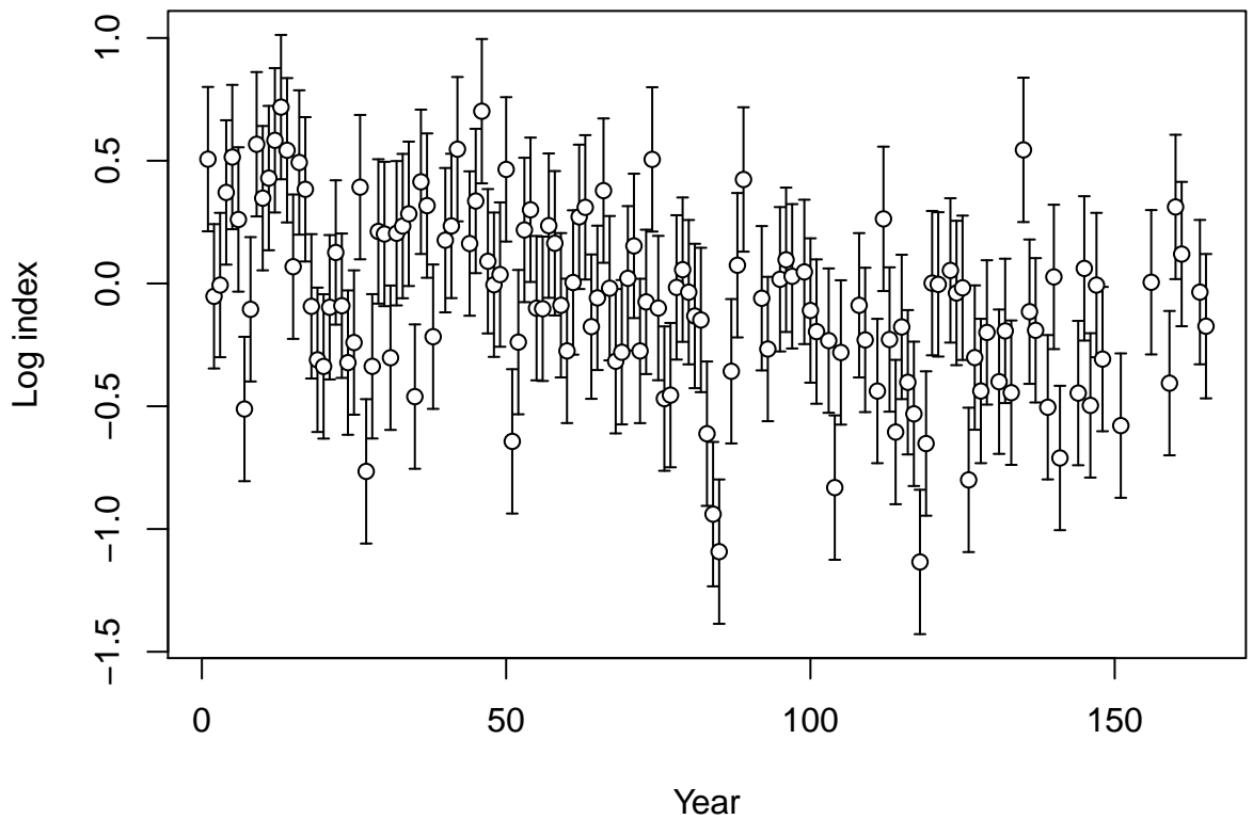
Index F12-LL_N_num



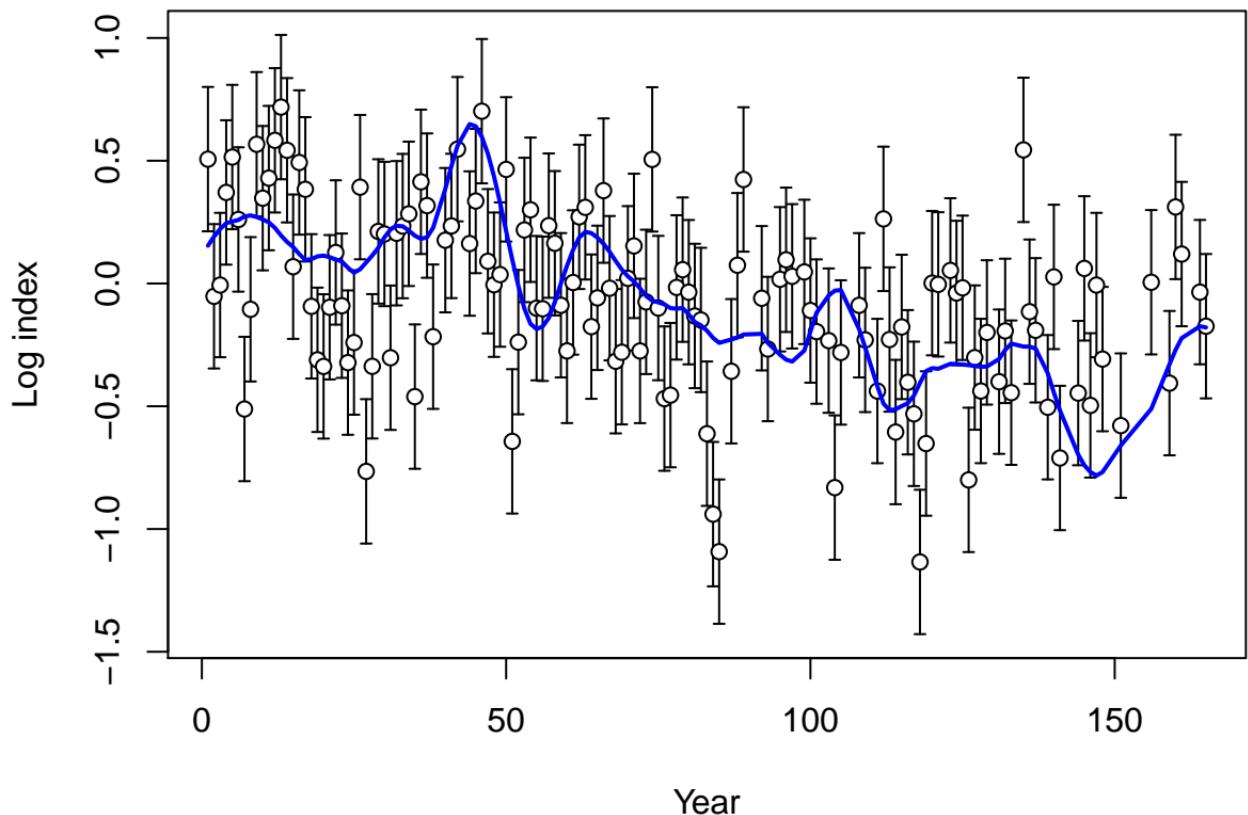
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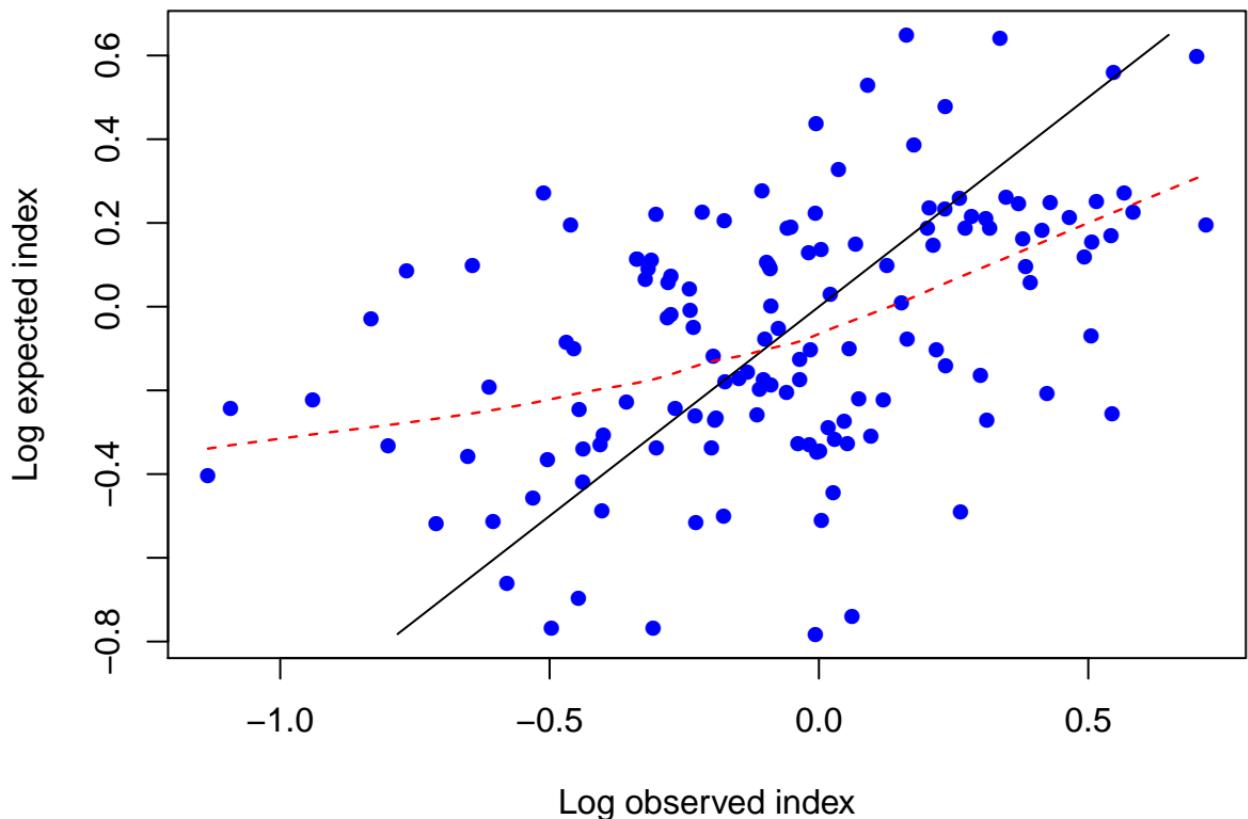
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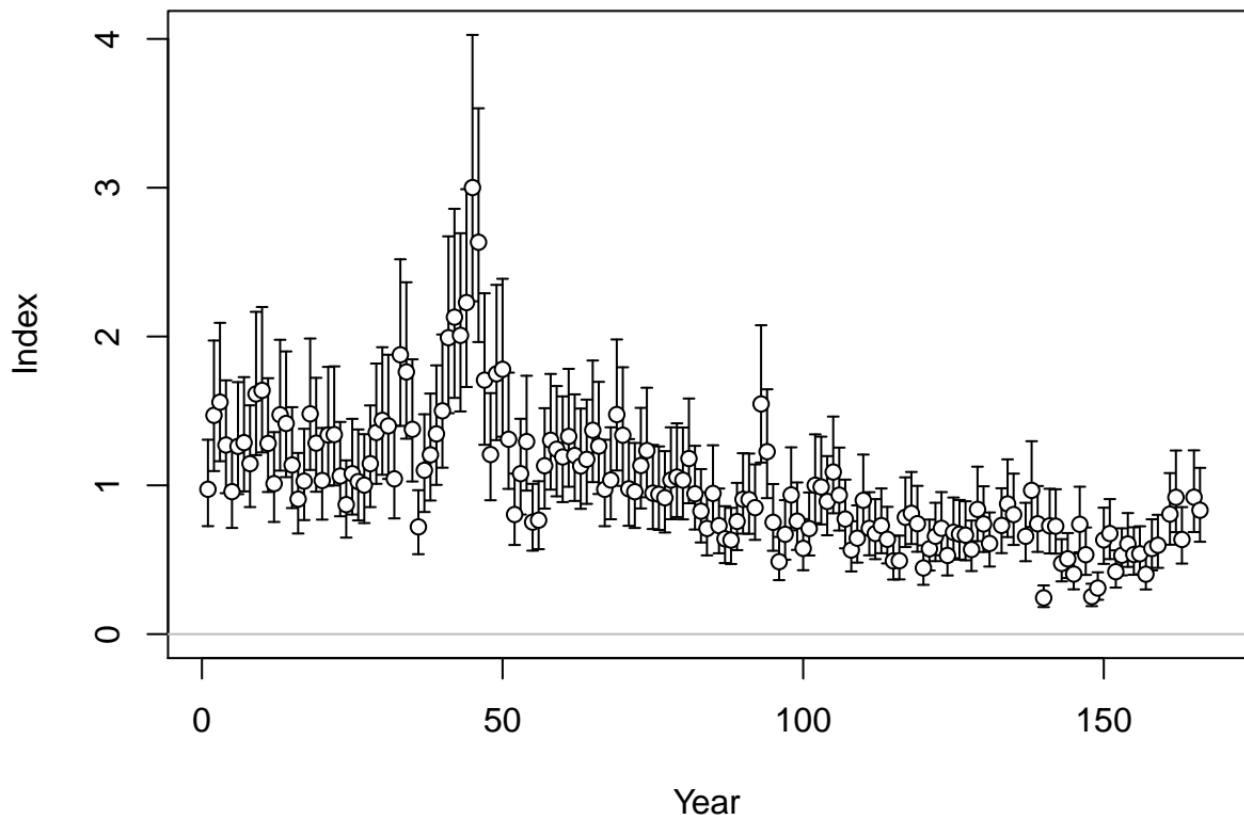
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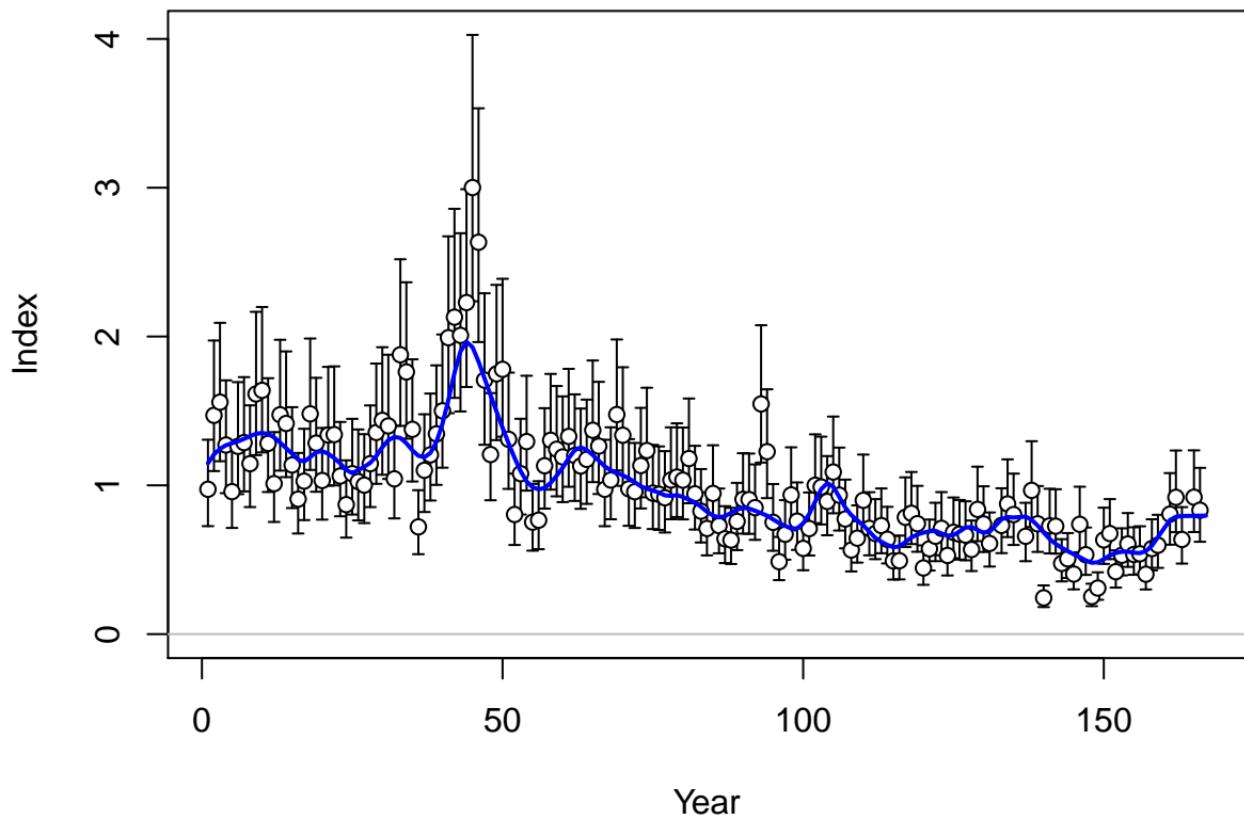
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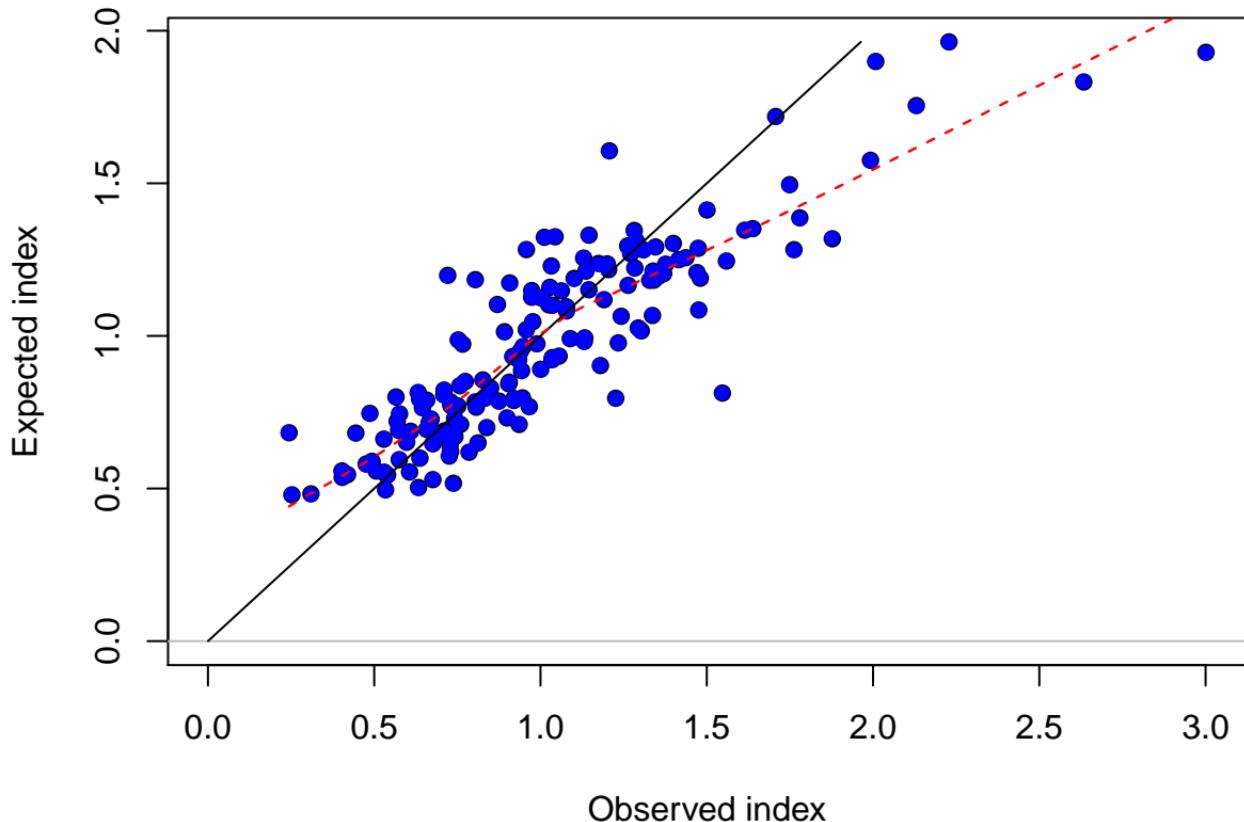
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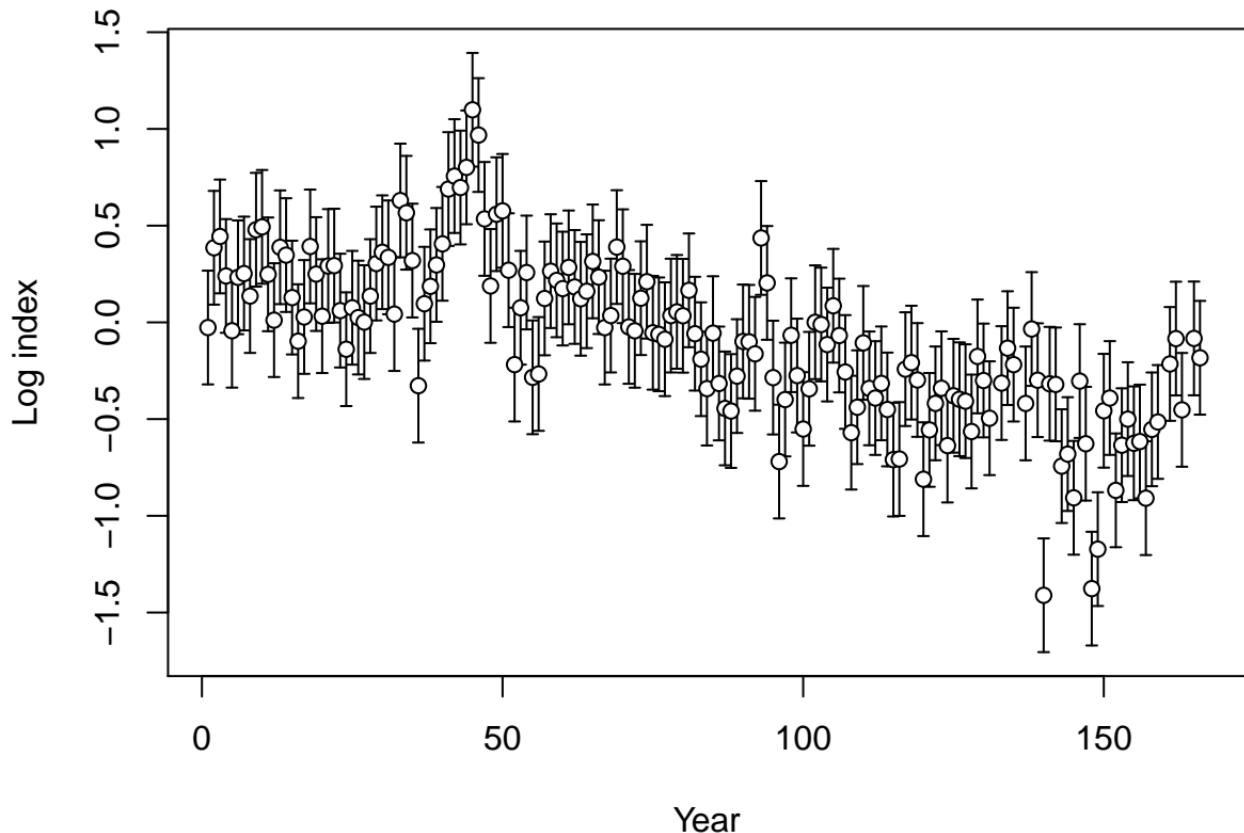
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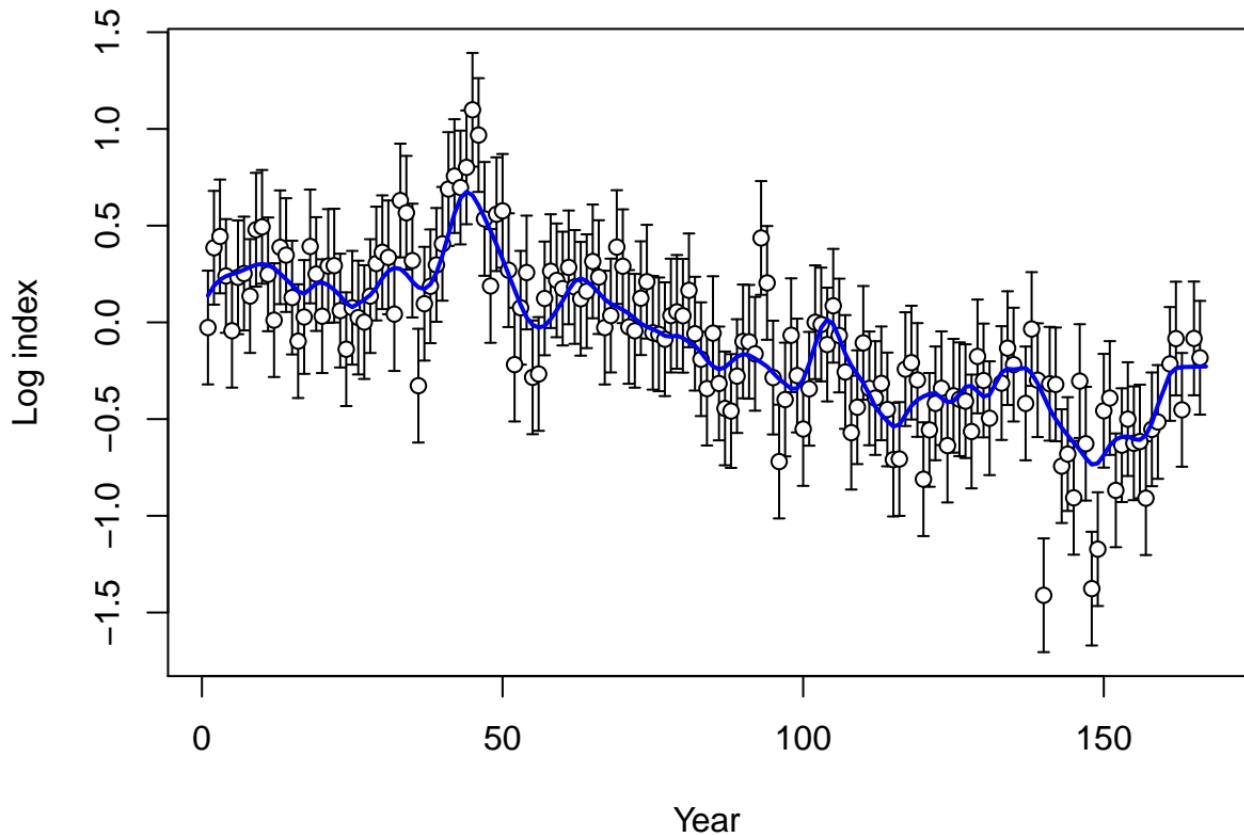
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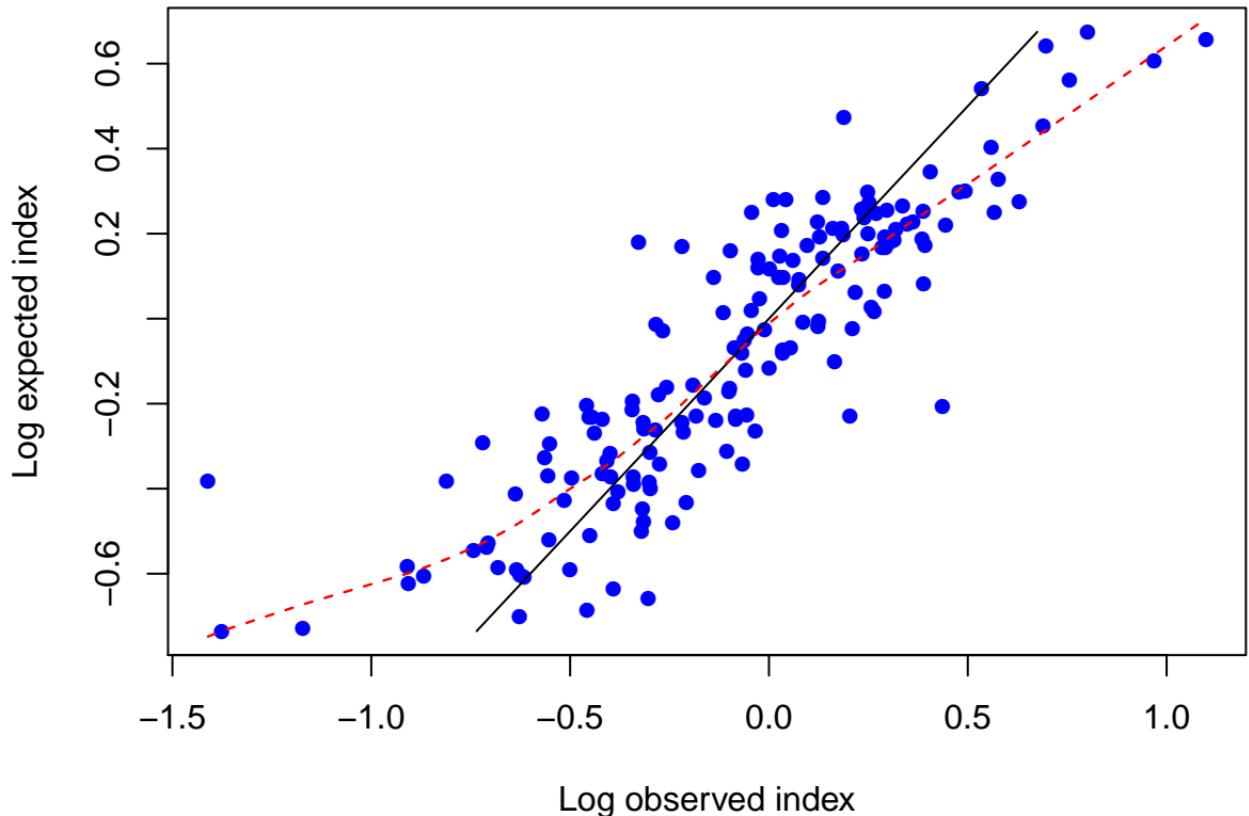
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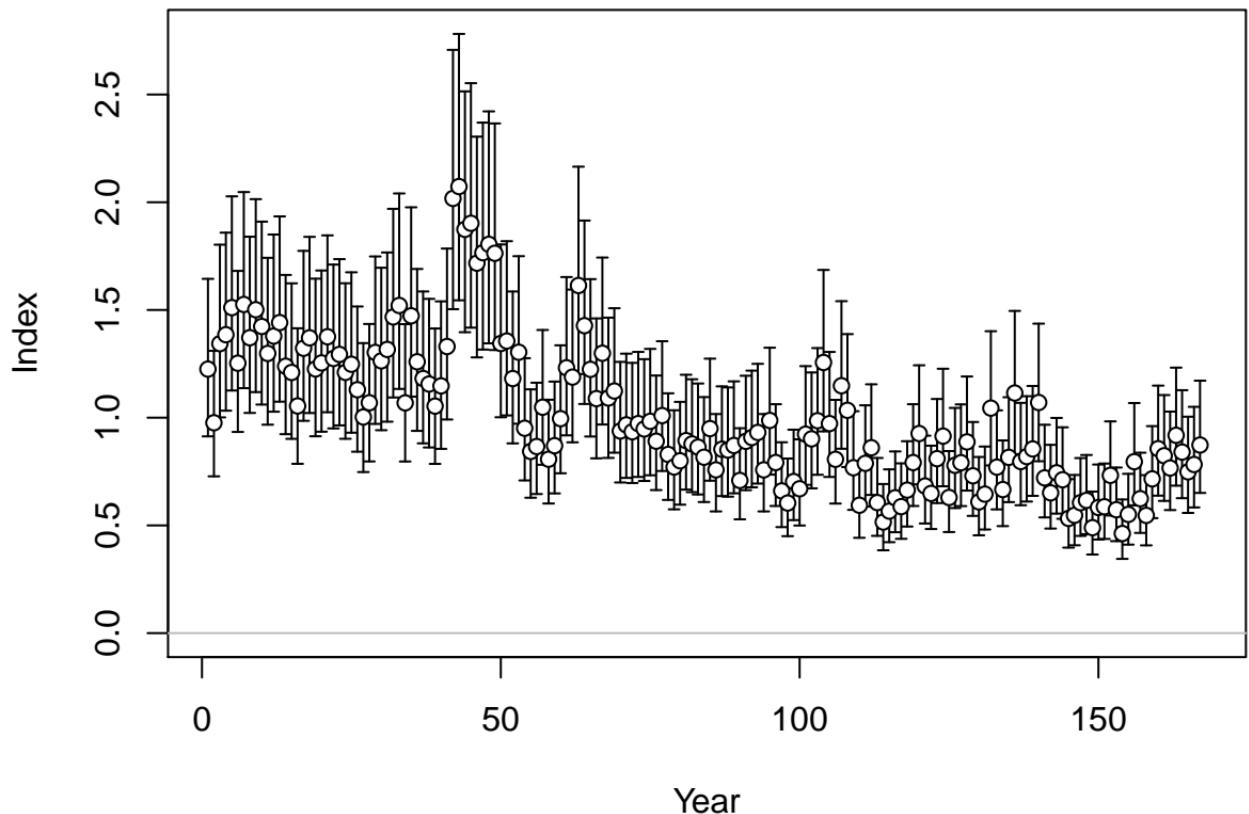
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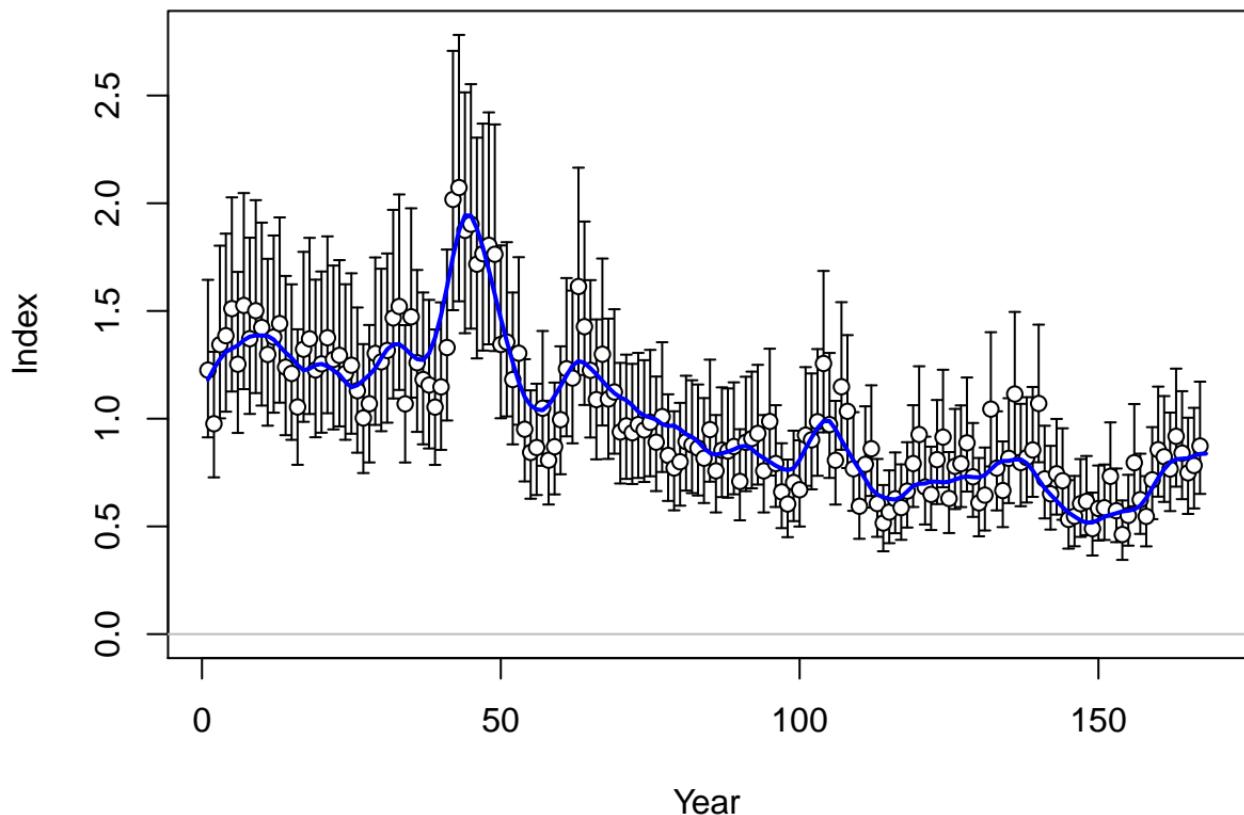
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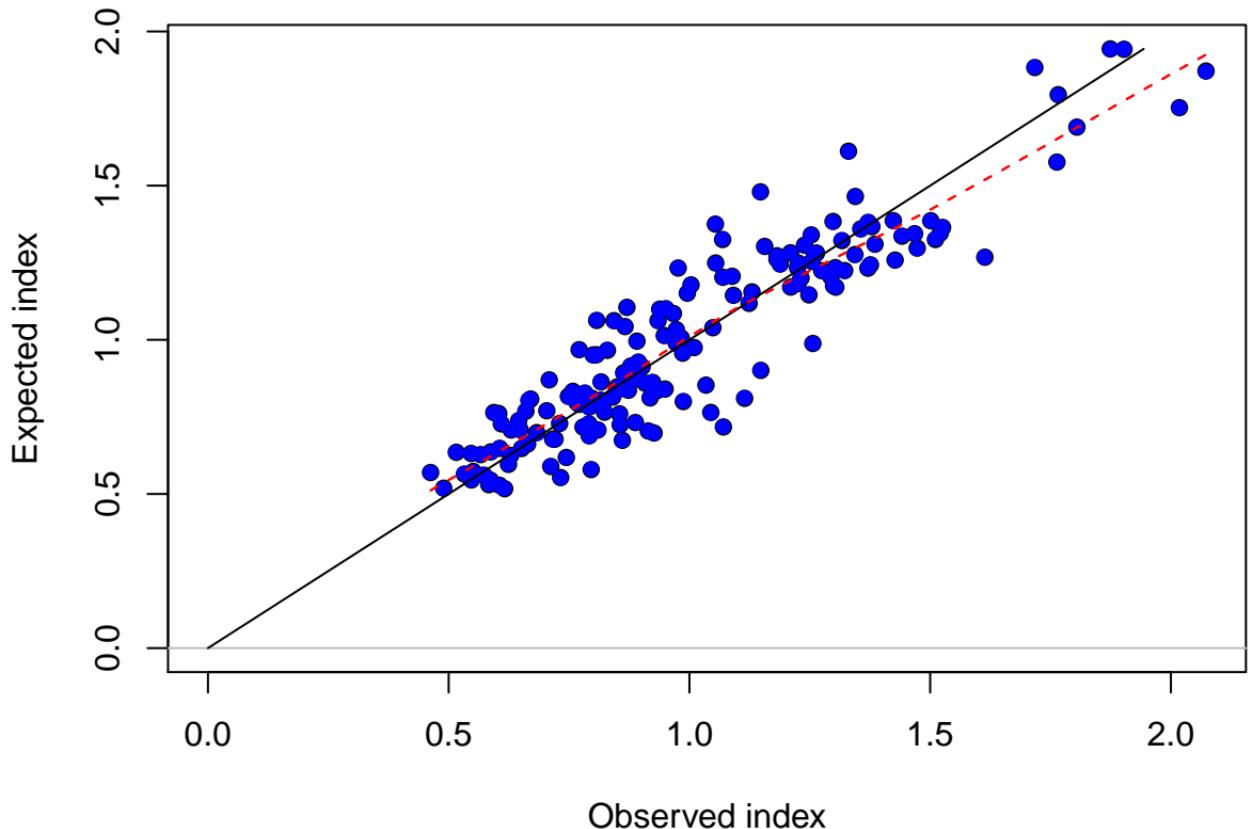
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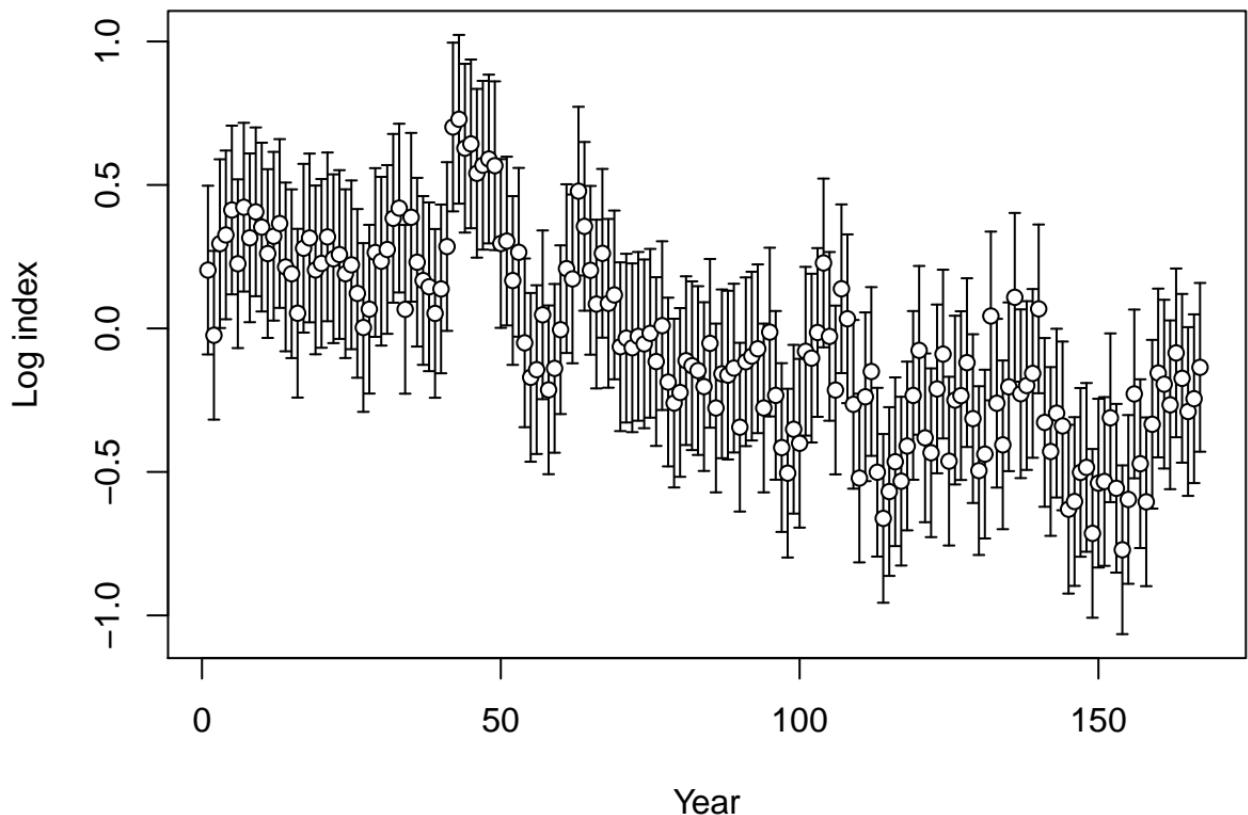
Index F14-LL_S_num



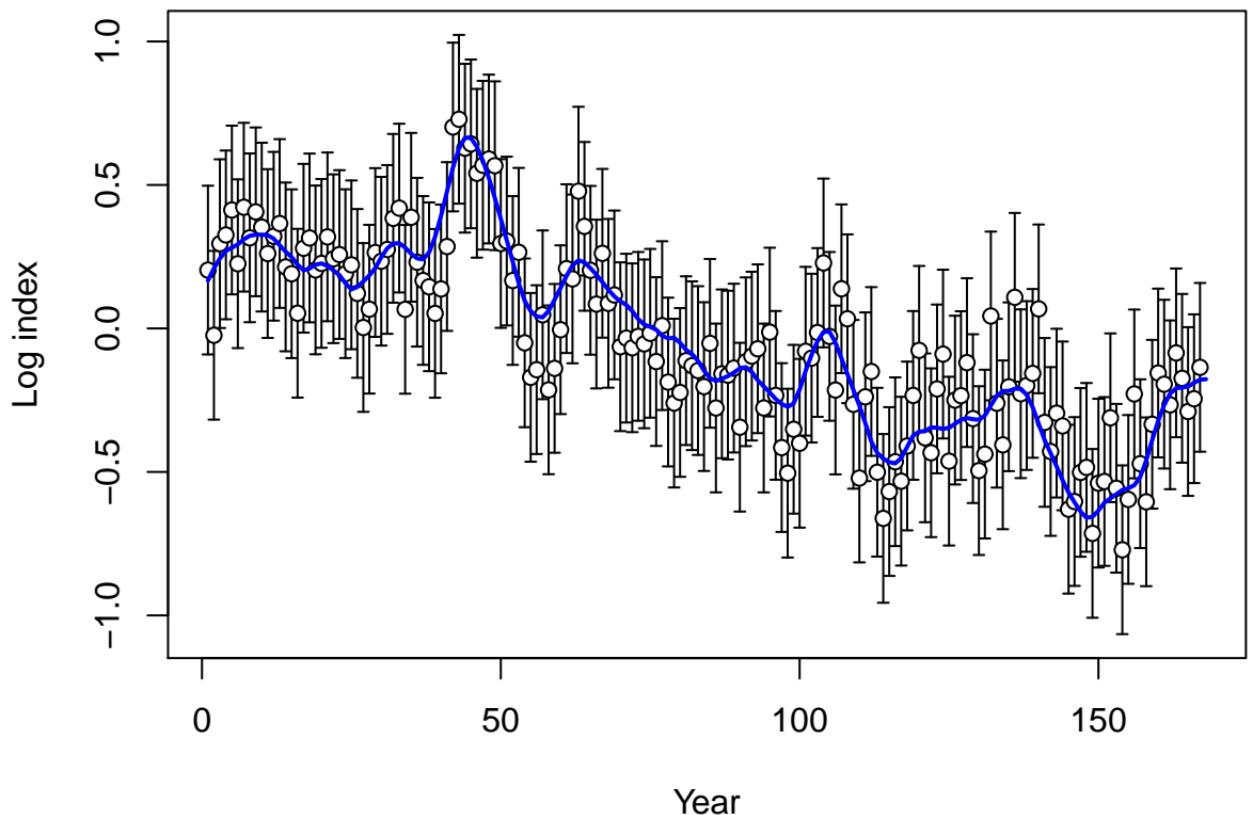
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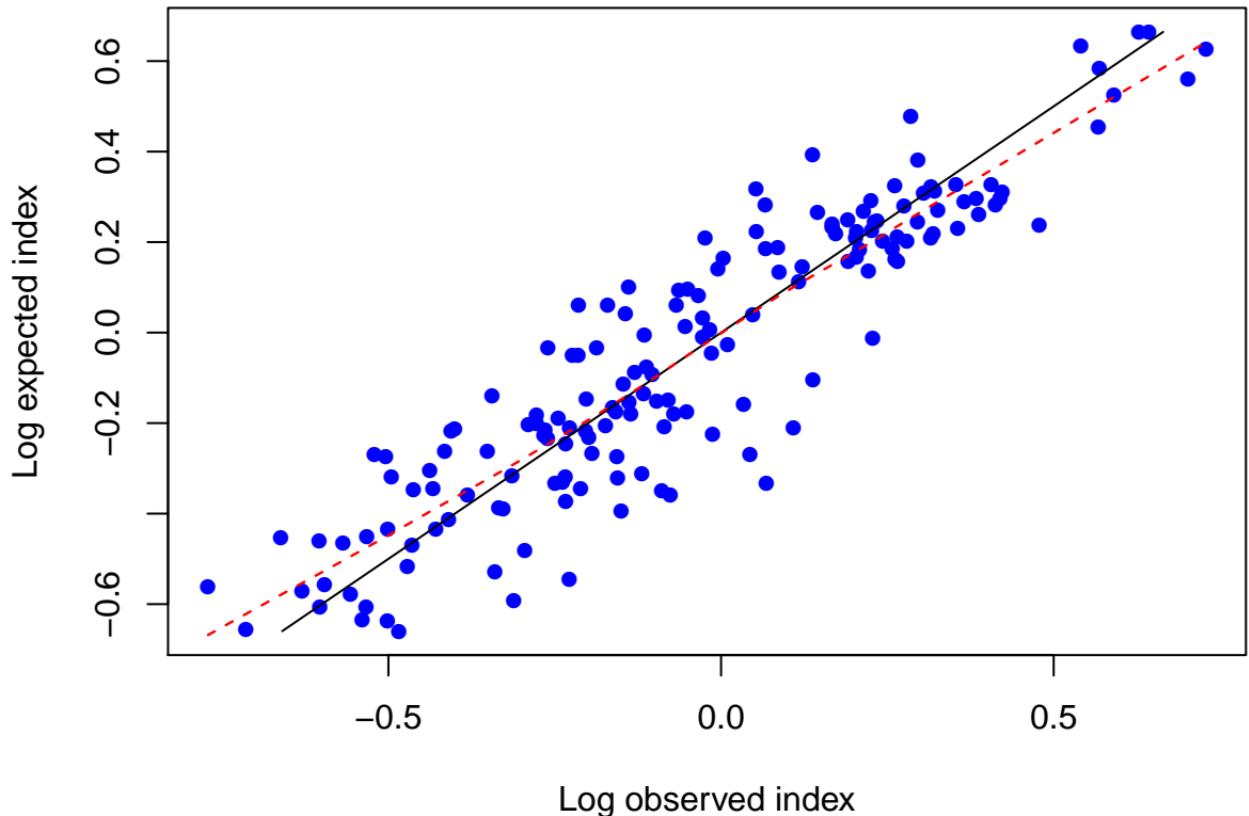
Log index F14-LL_S_num



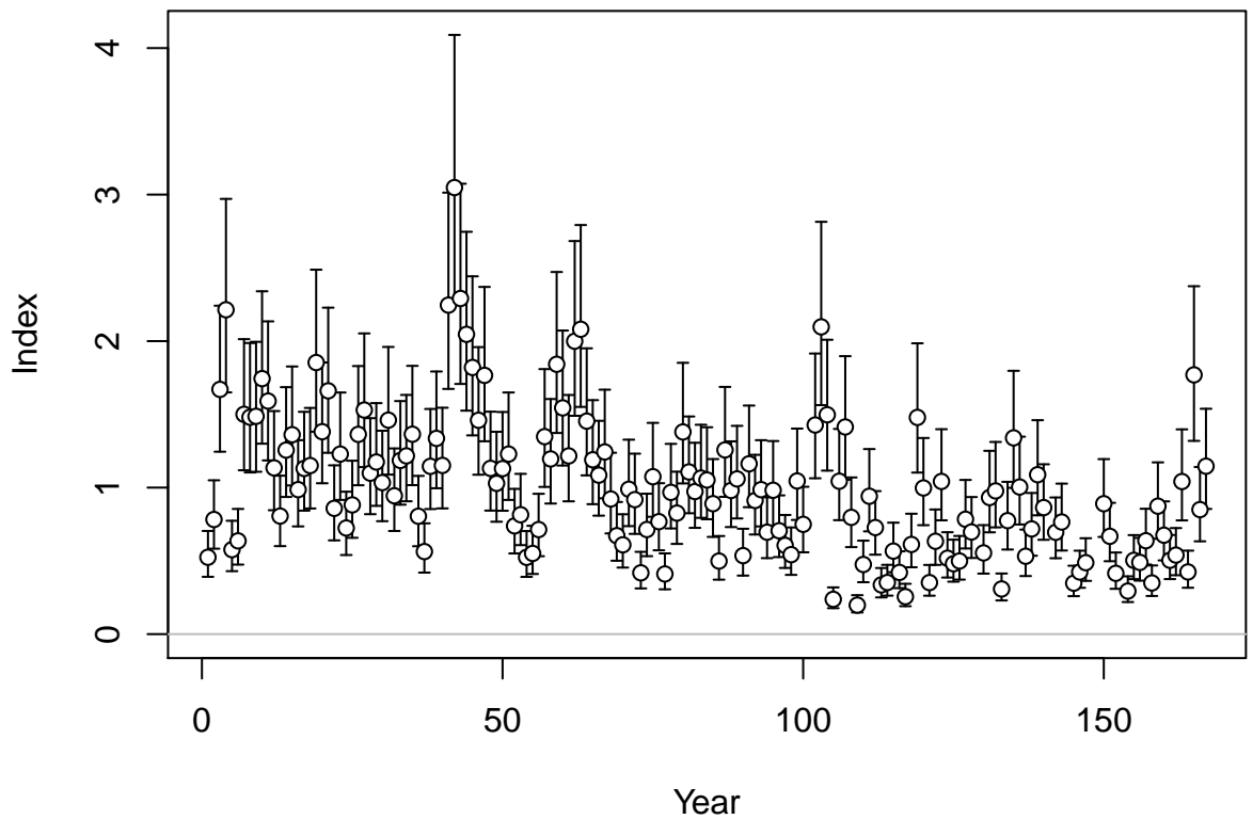
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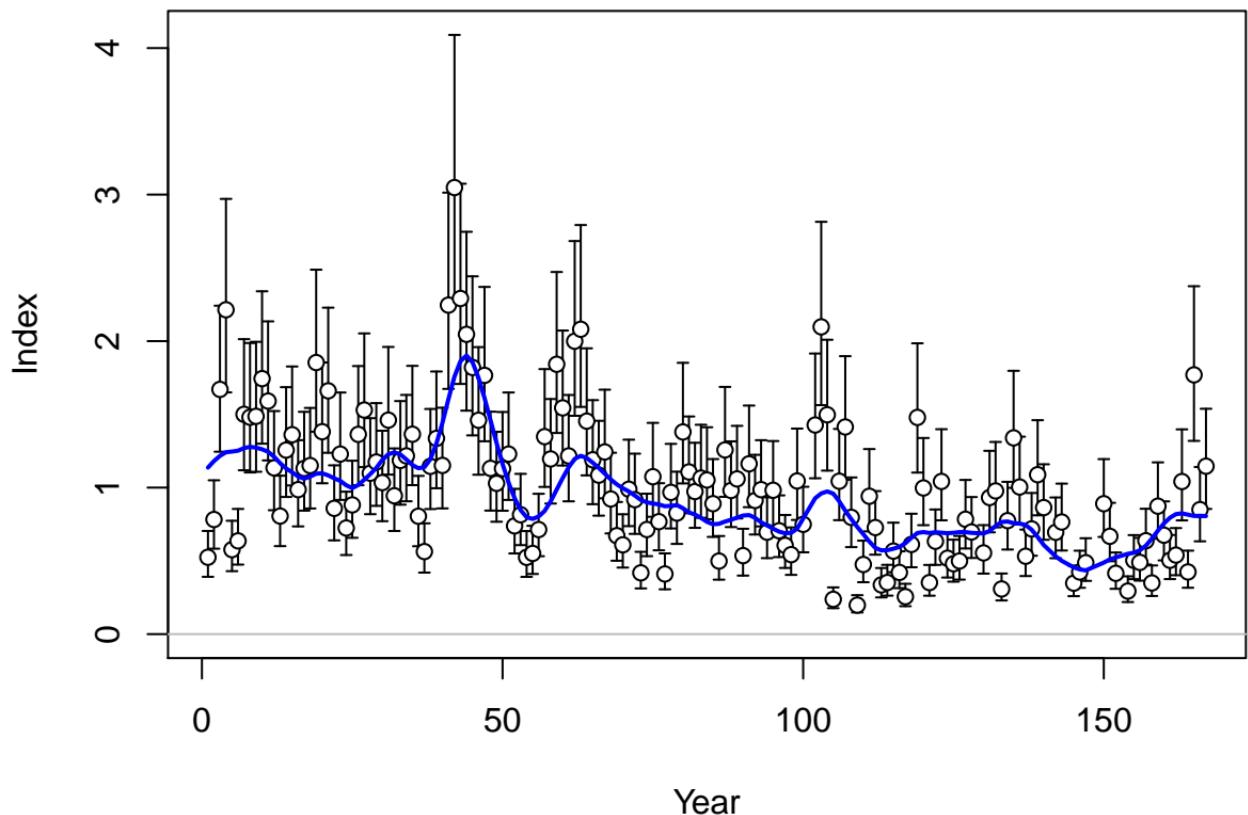
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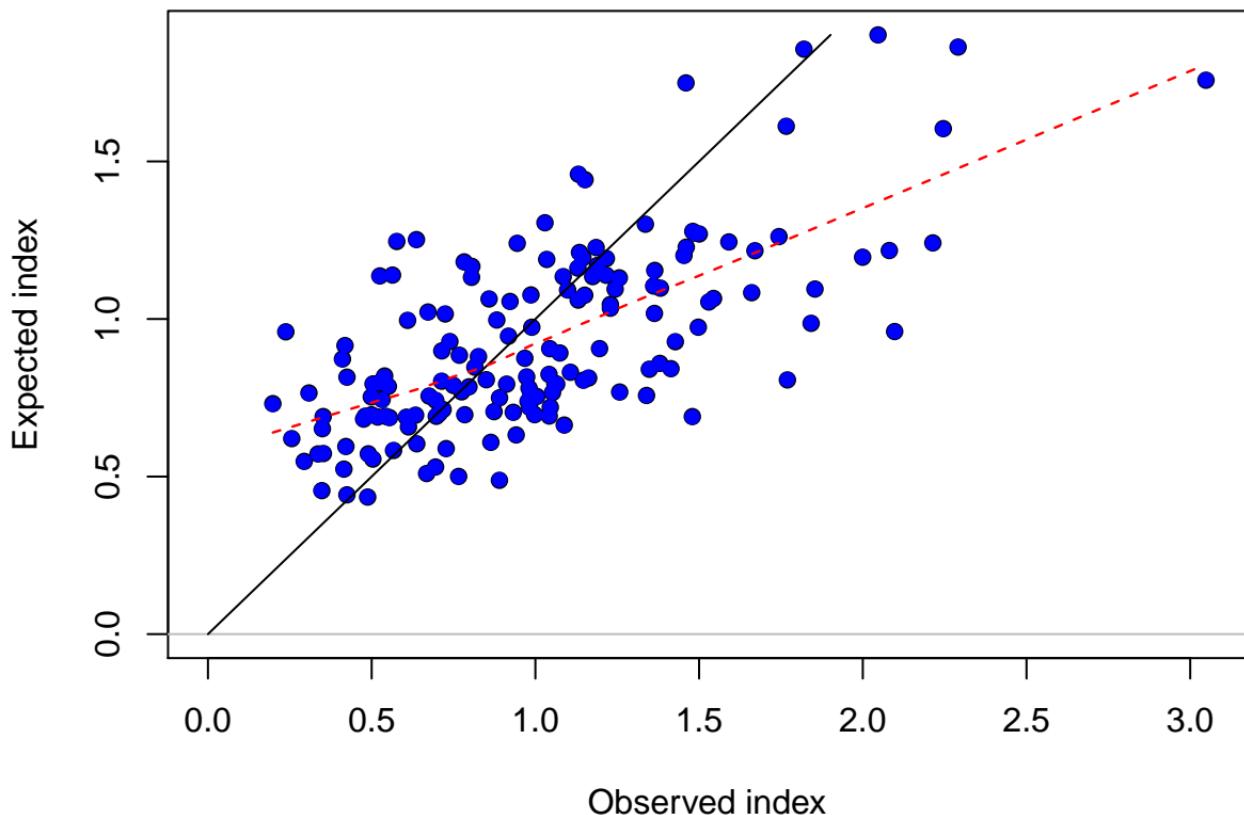
Index F15-LL_I_num



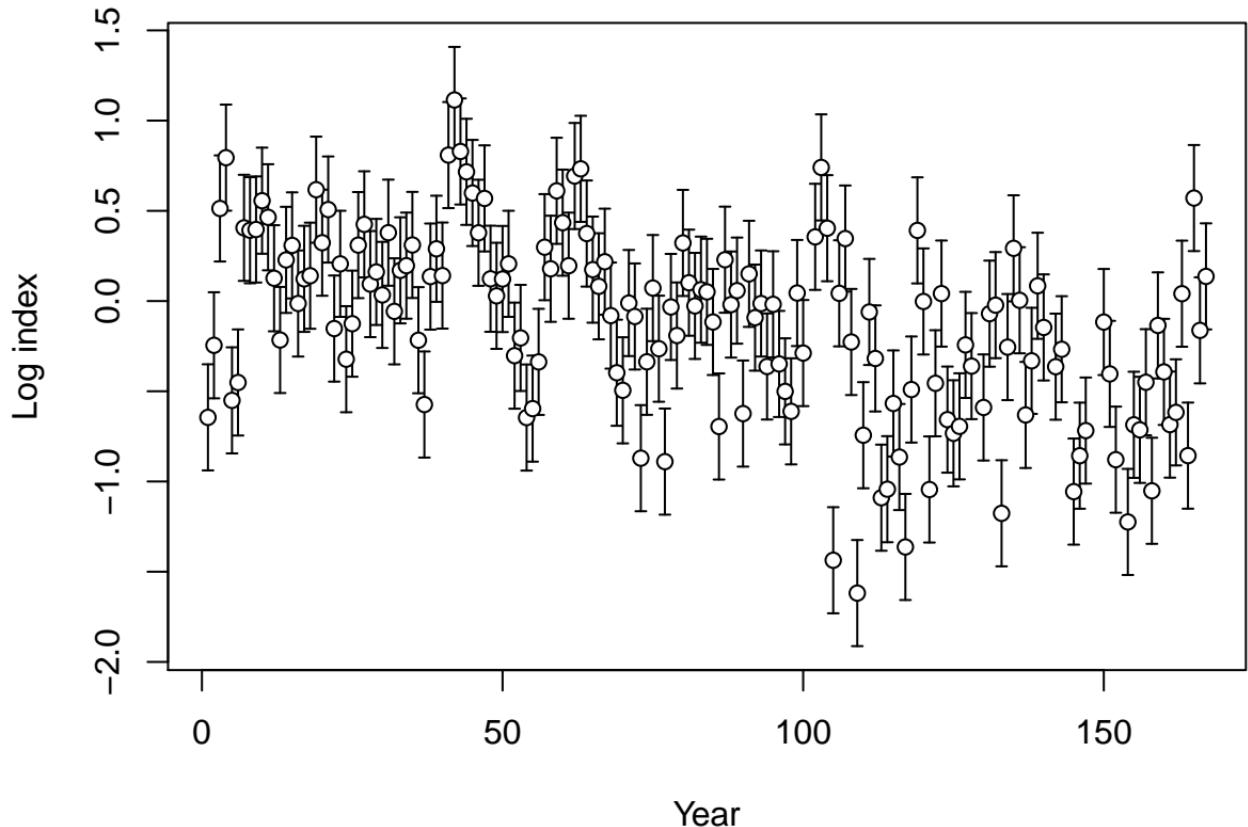
Index F15-LL_I_num



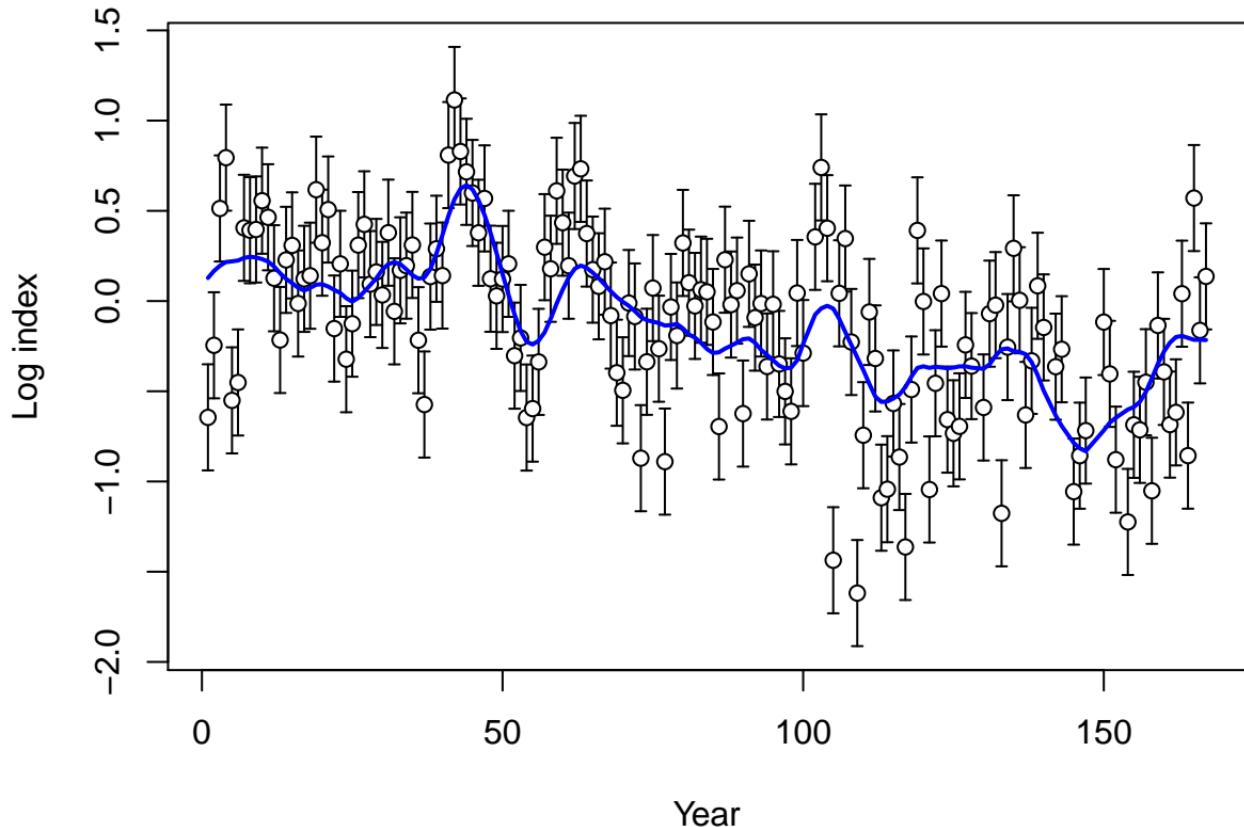
Index F15-LL_I_num



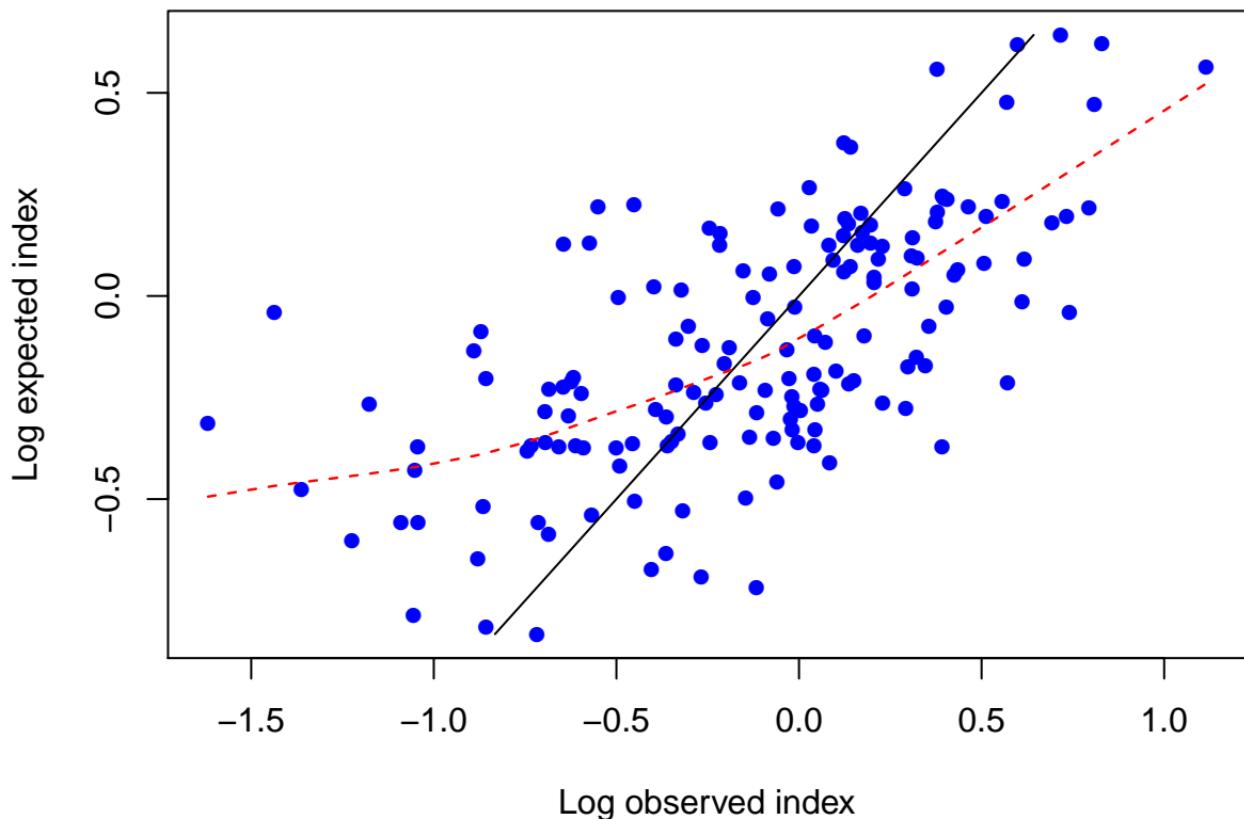
Log index F15-LL_I_num



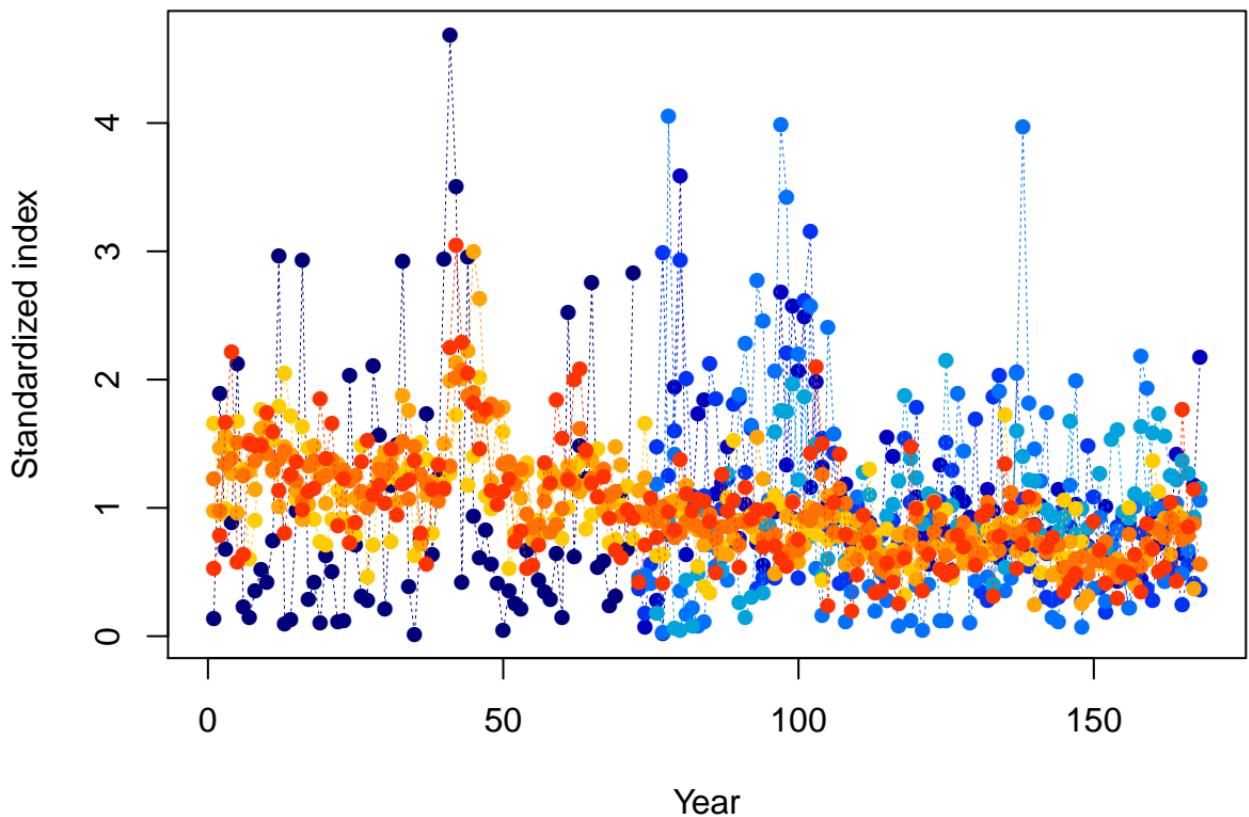
Log index F15-LL_I_num



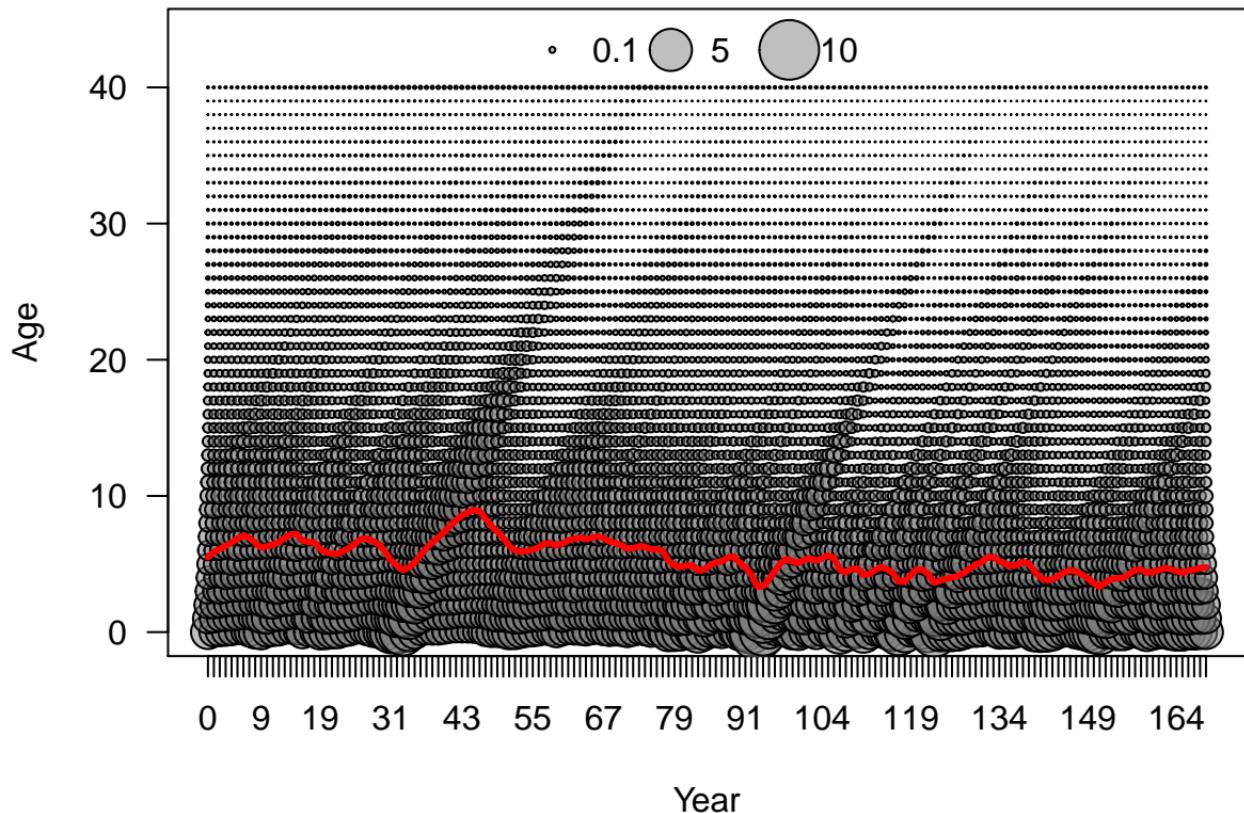
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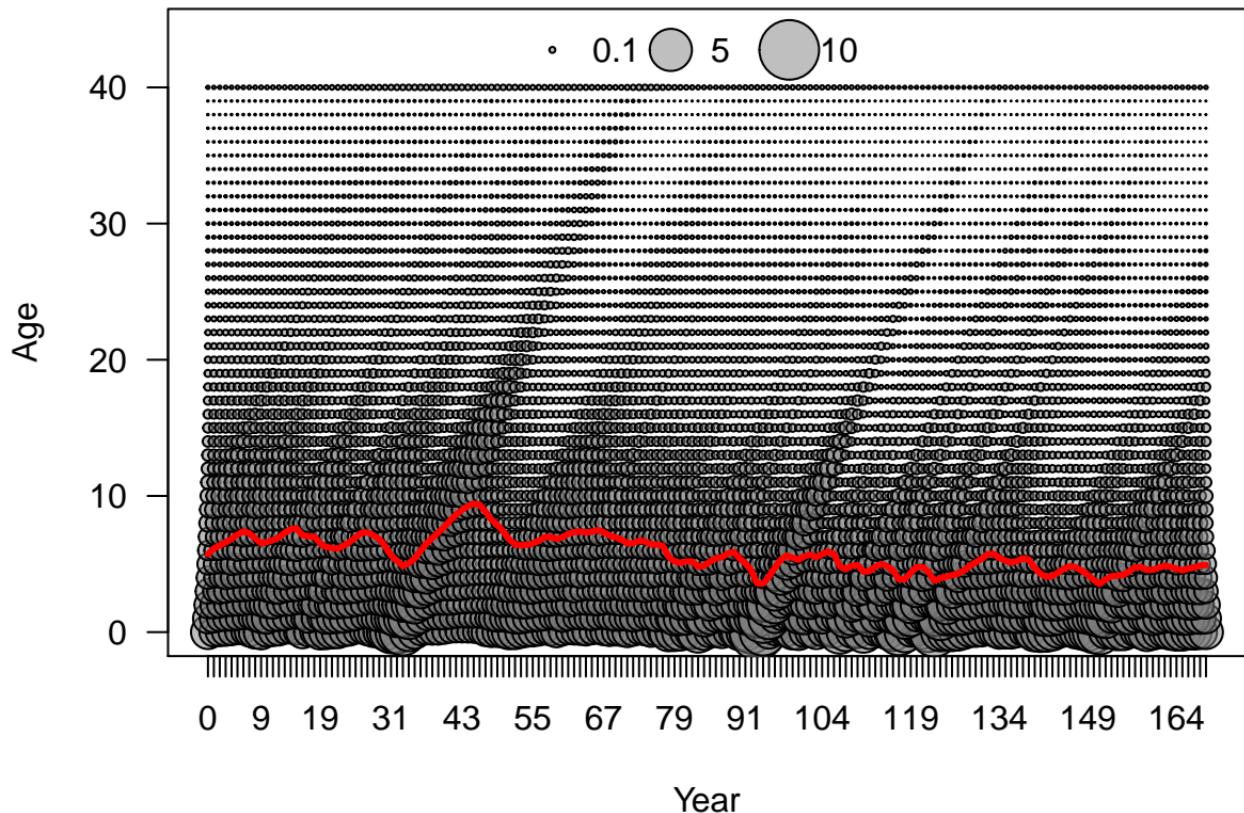
All cpue plot



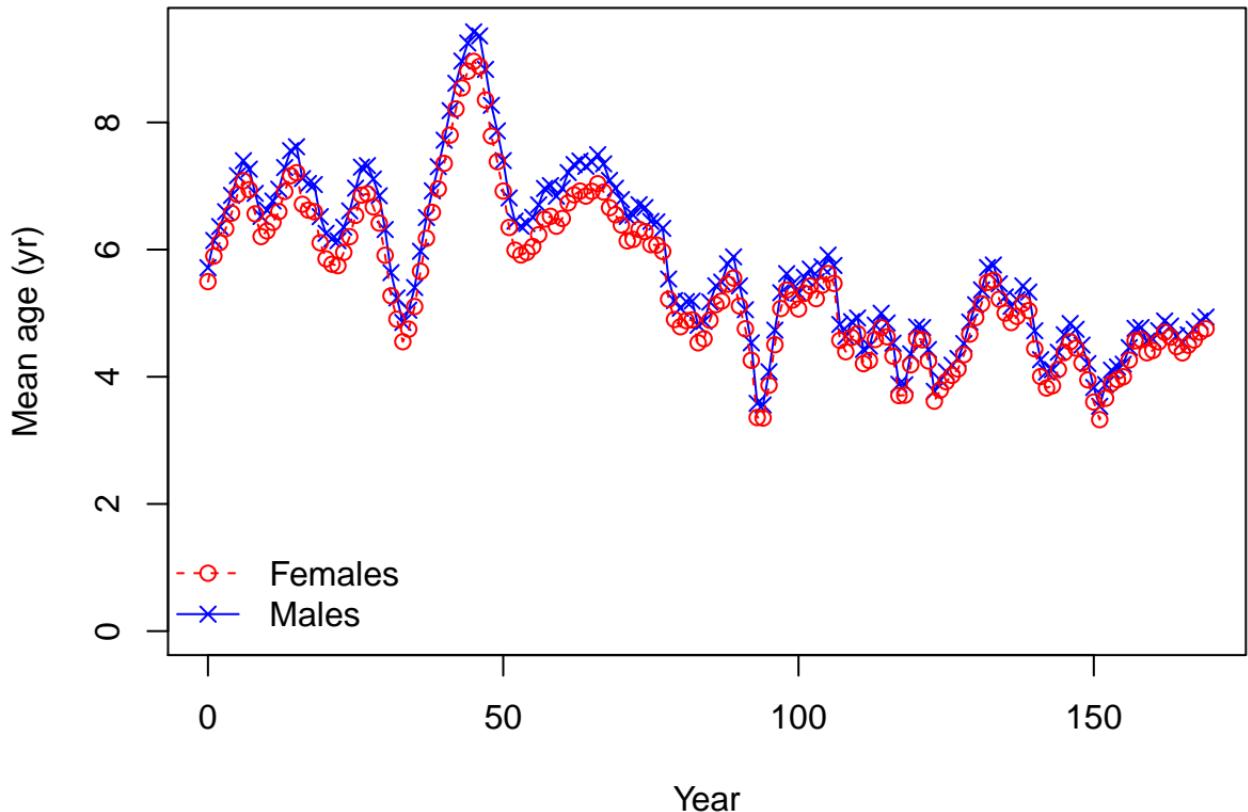
Beginning of year expected numbers at age of females in (max ~ 8.6 million)



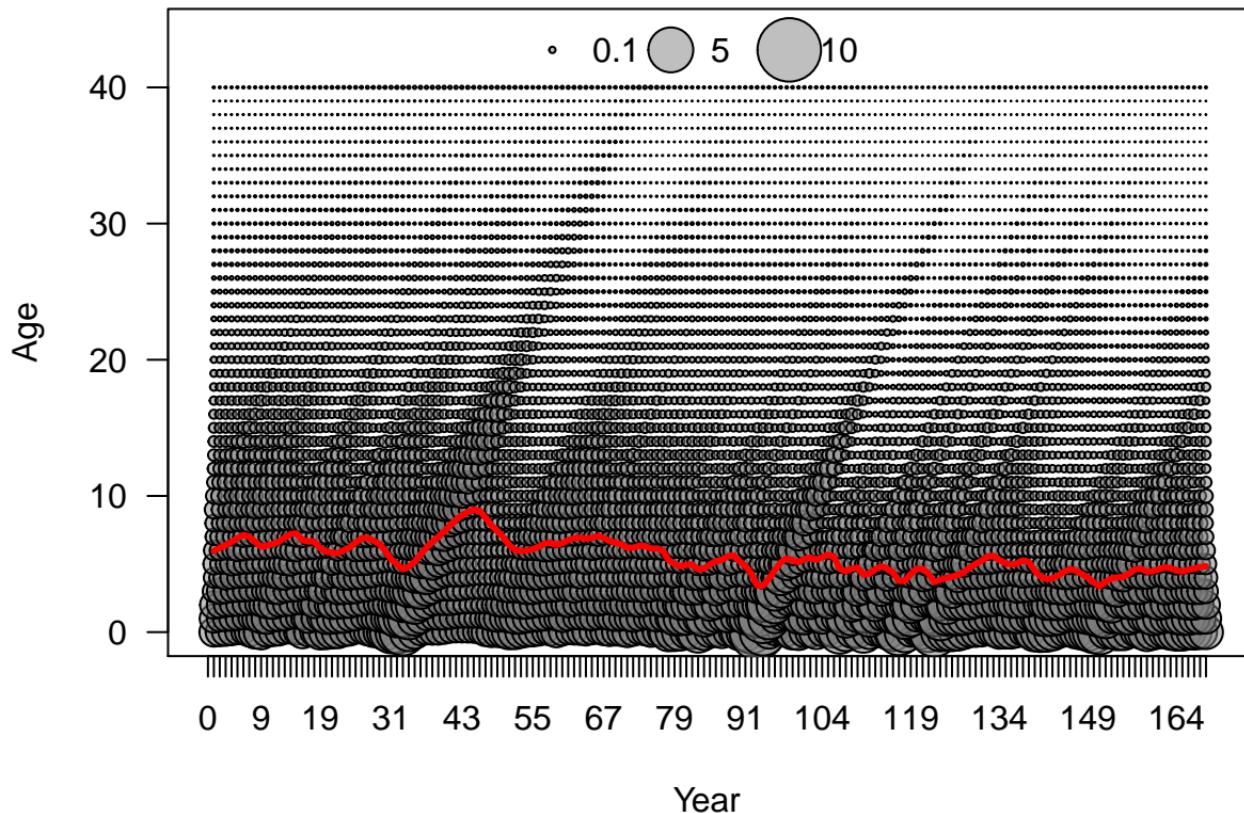
Beginning of year expected numbers at age of males in (max ~ 8.6 million)



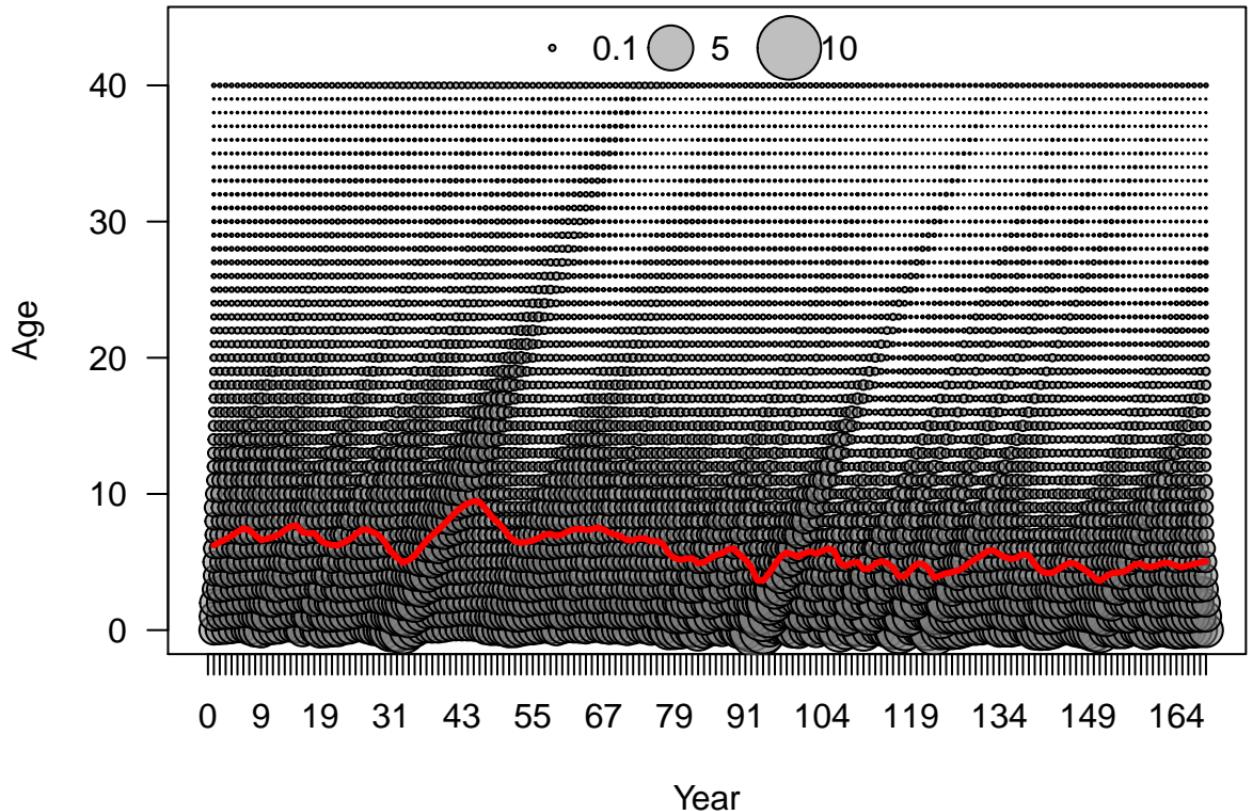
Beginning of year mean age in the population



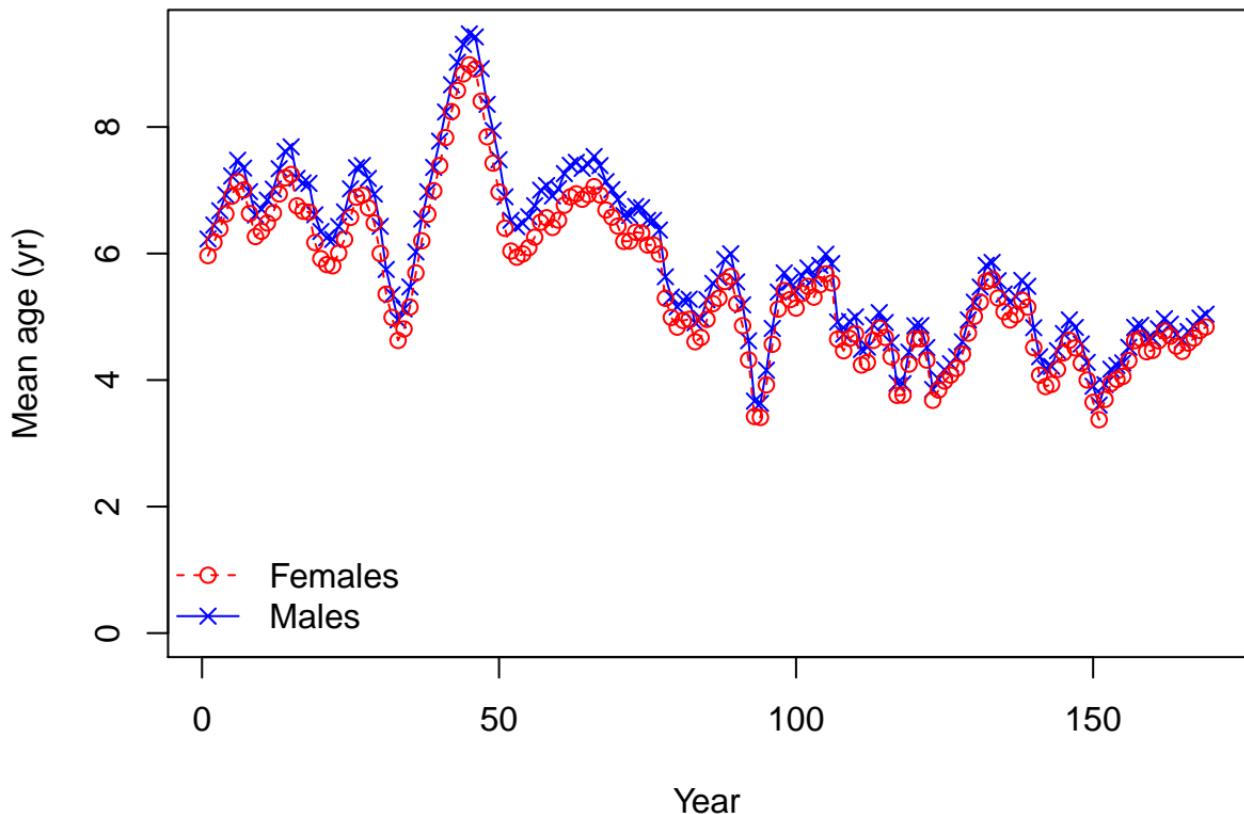
Middle of year expected numbers at age of females in (max ~ 7.6 million)



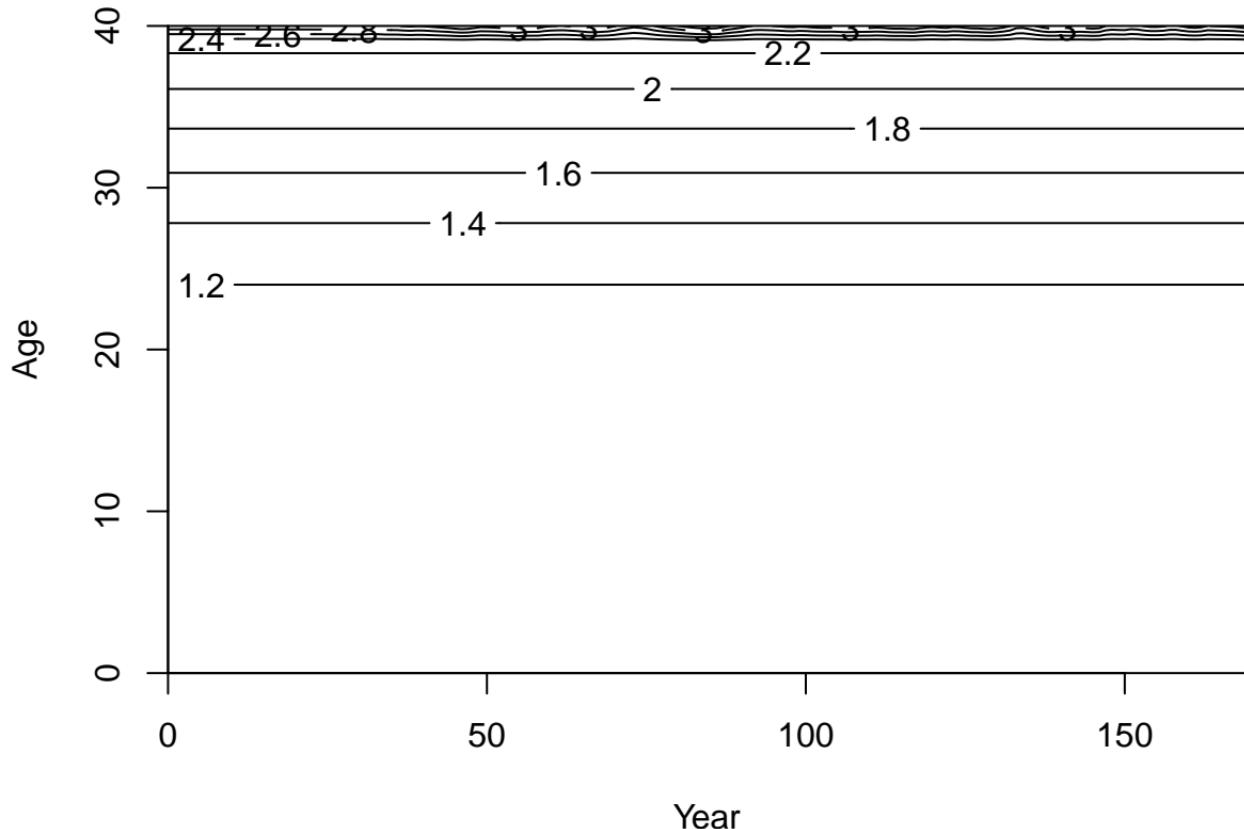
Middle of year expected numbers at age of males in (max ~ 7.6 million)



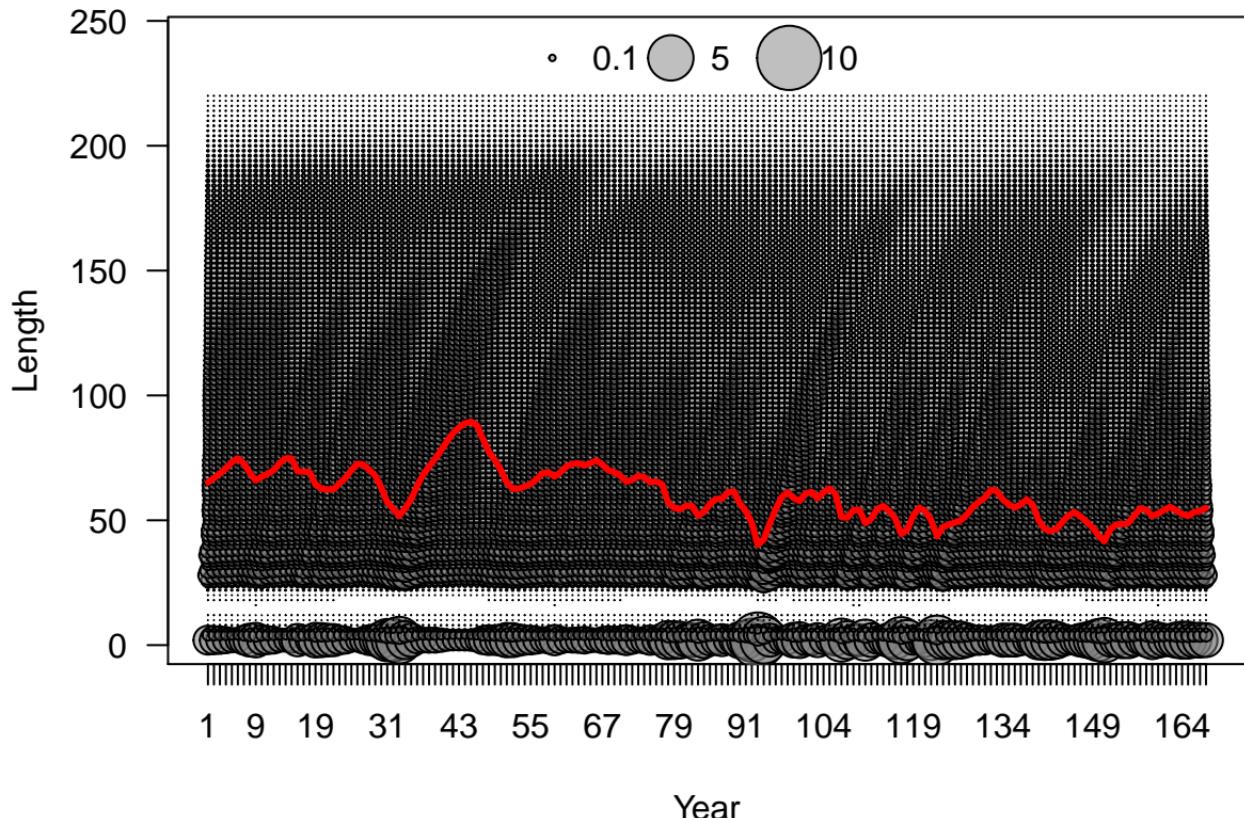
Middle of year mean age in the population



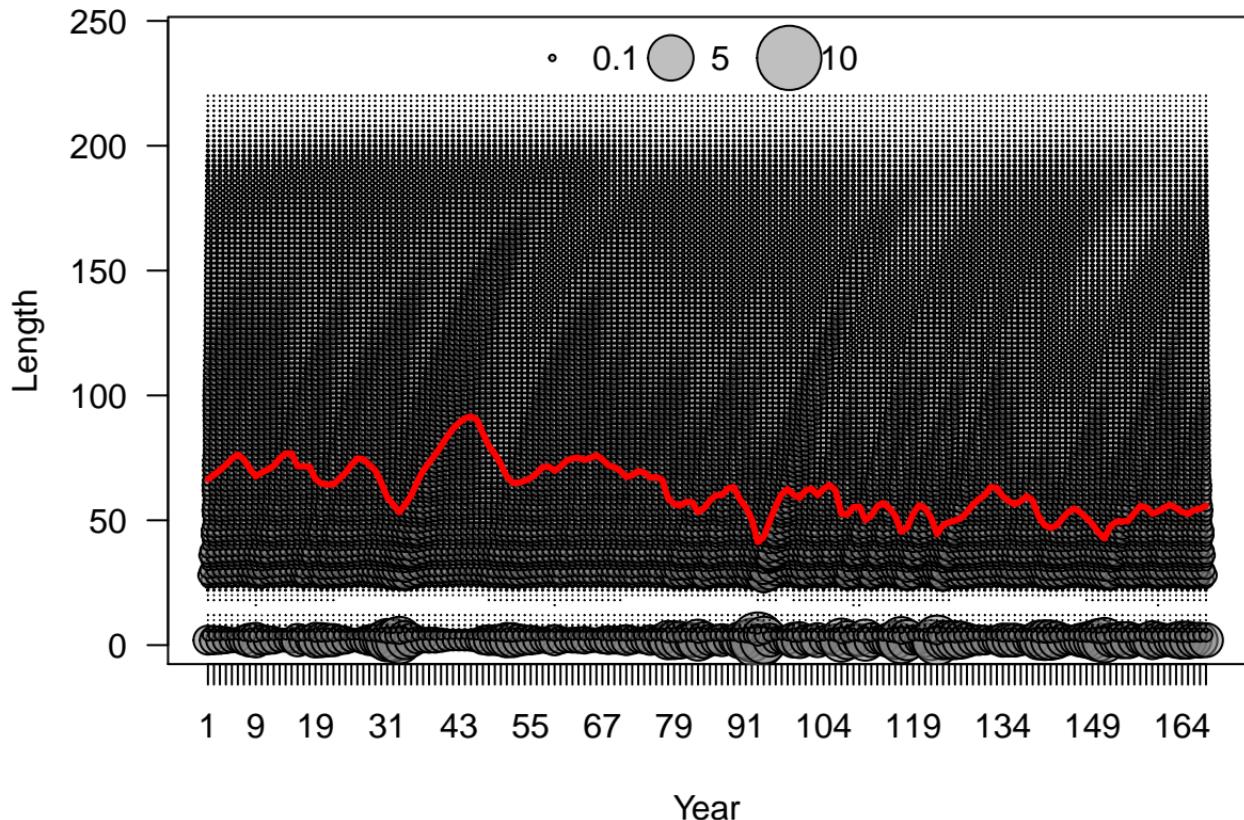
Sex ratio of numbers at age (males/females)



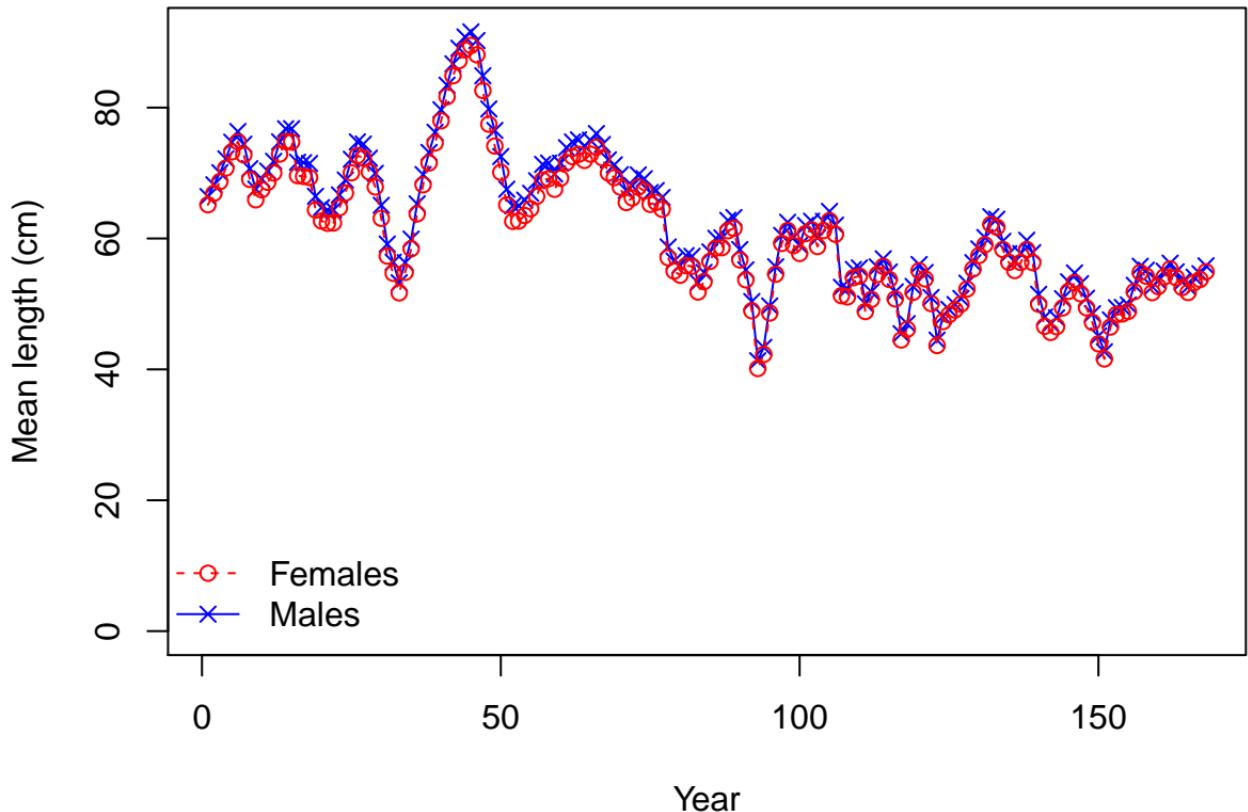
Beginning of year expected numbers at length of females in (max ~ 7.4 million)



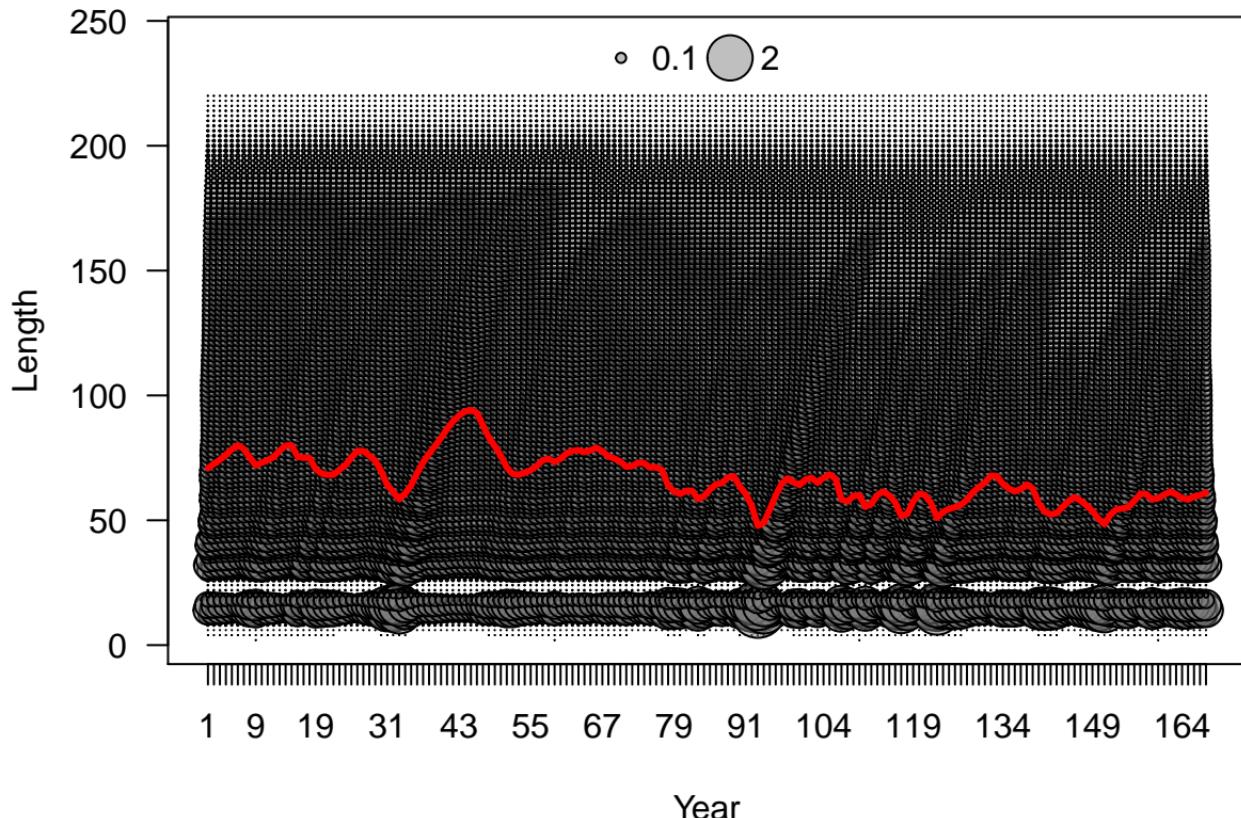
Beginning of year expected numbers at length of males in (max ~ 7.4 million)



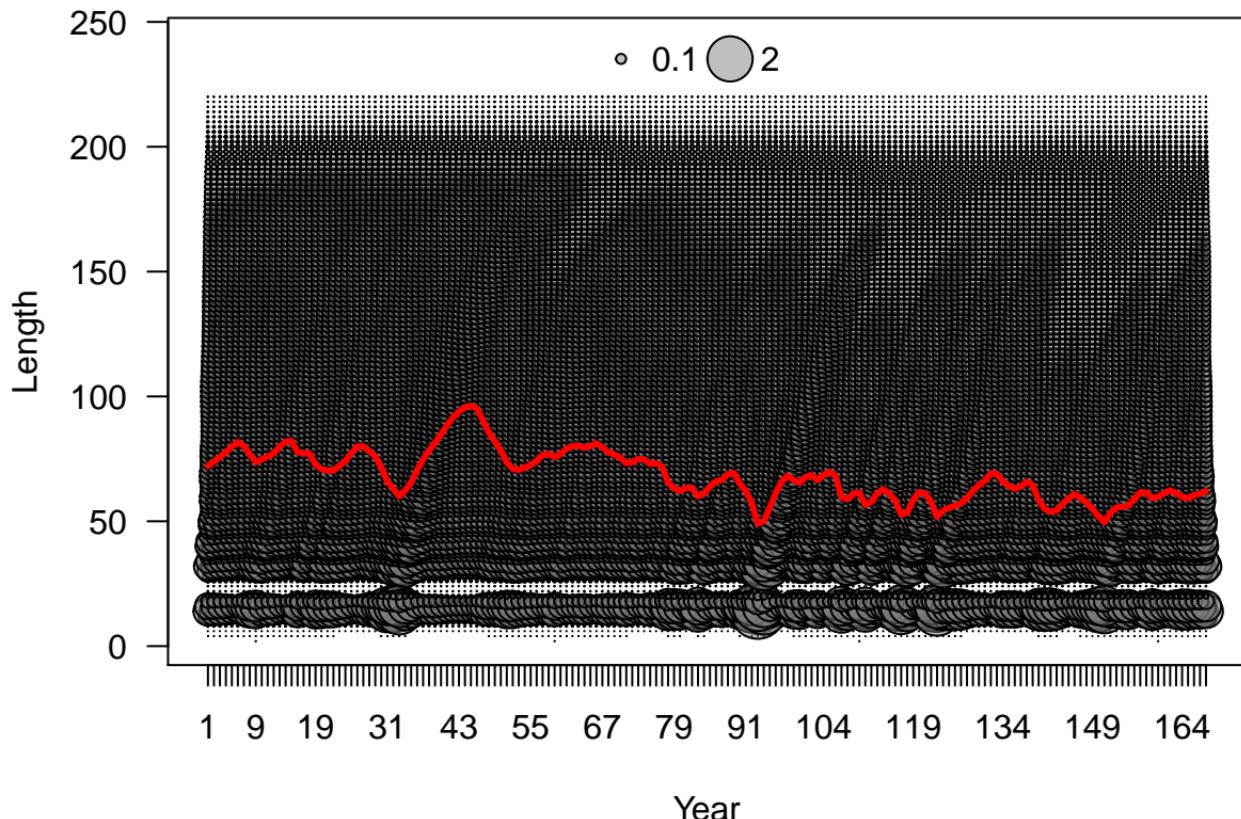
Beginning of year mean length (cm) in the population



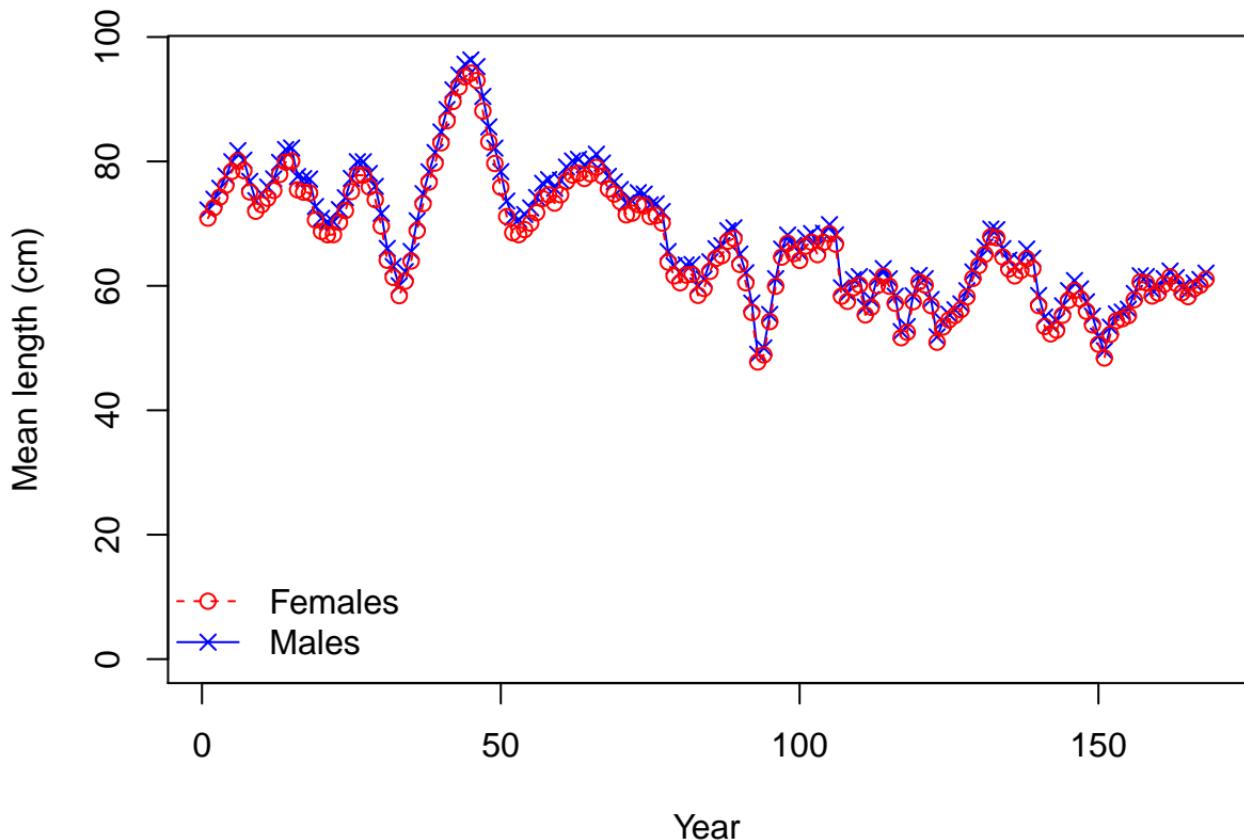
Middle of year expected numbers at length of females in (max ~ 3.0 million)



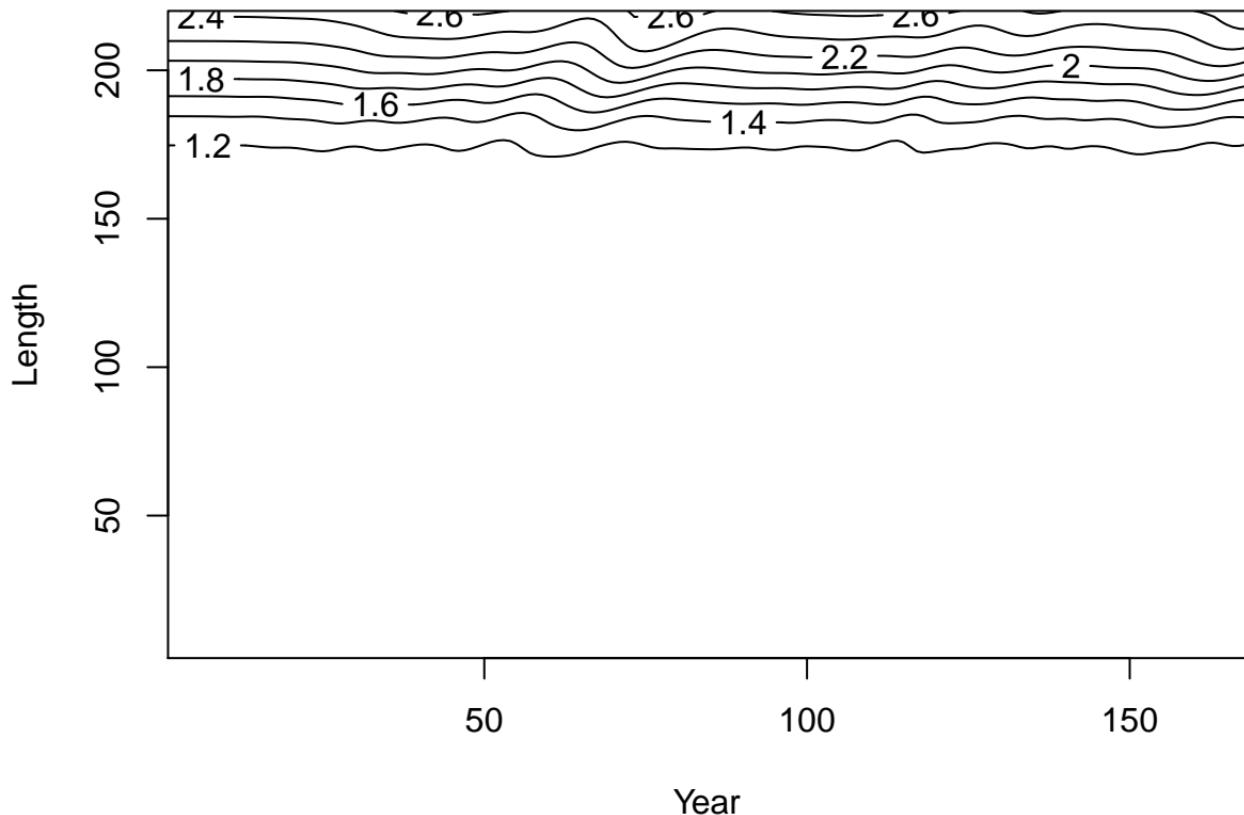
Middle of year expected numbers at length of males in (max ~ 3.0 million)



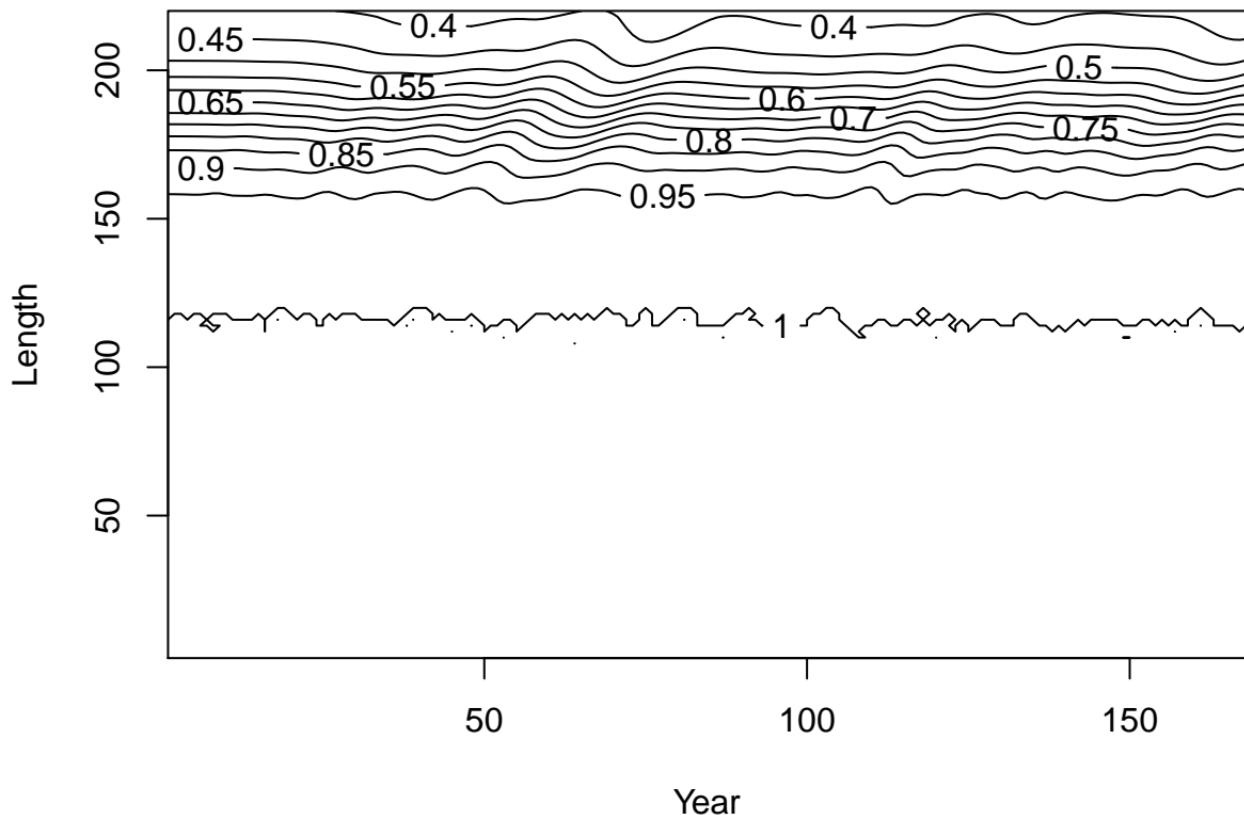
Middle of year mean length (cm) in the population



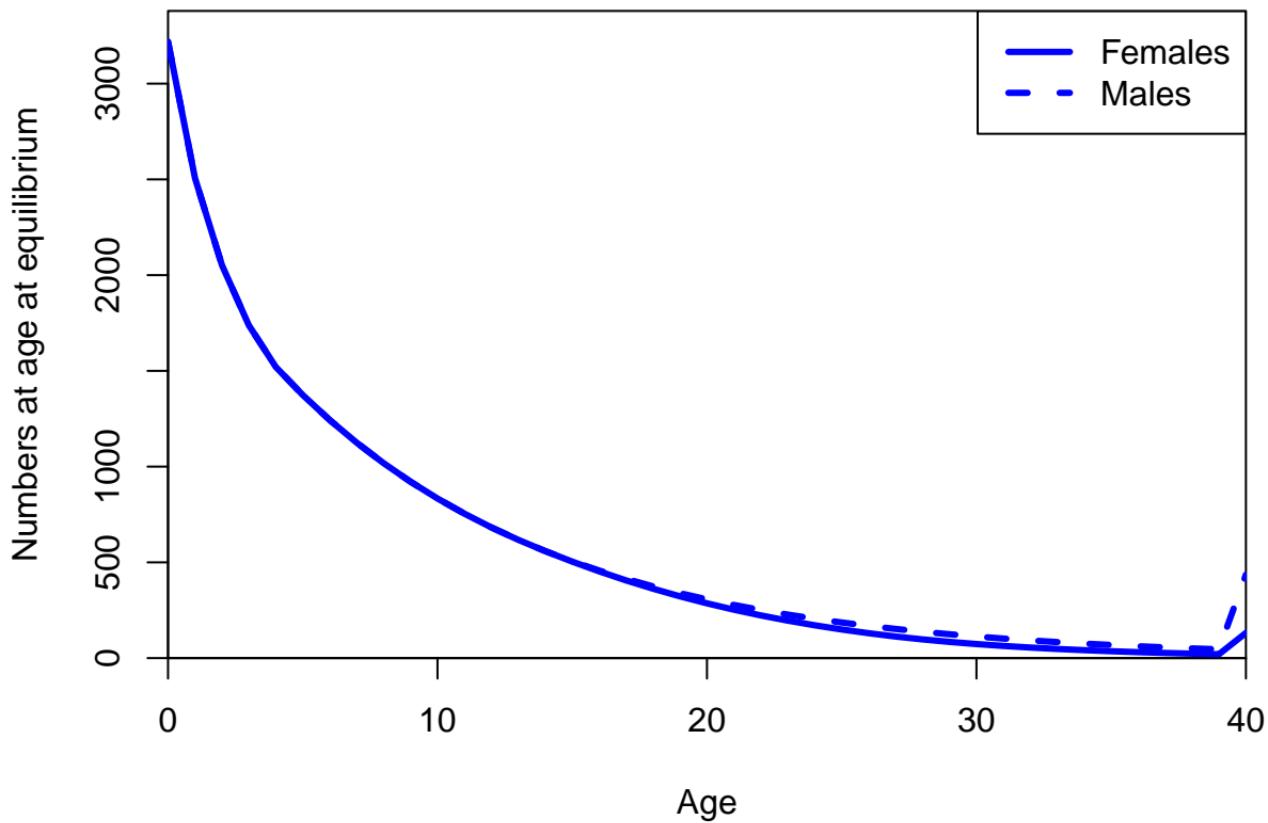
Sex ratio of numbers at length (males/females)



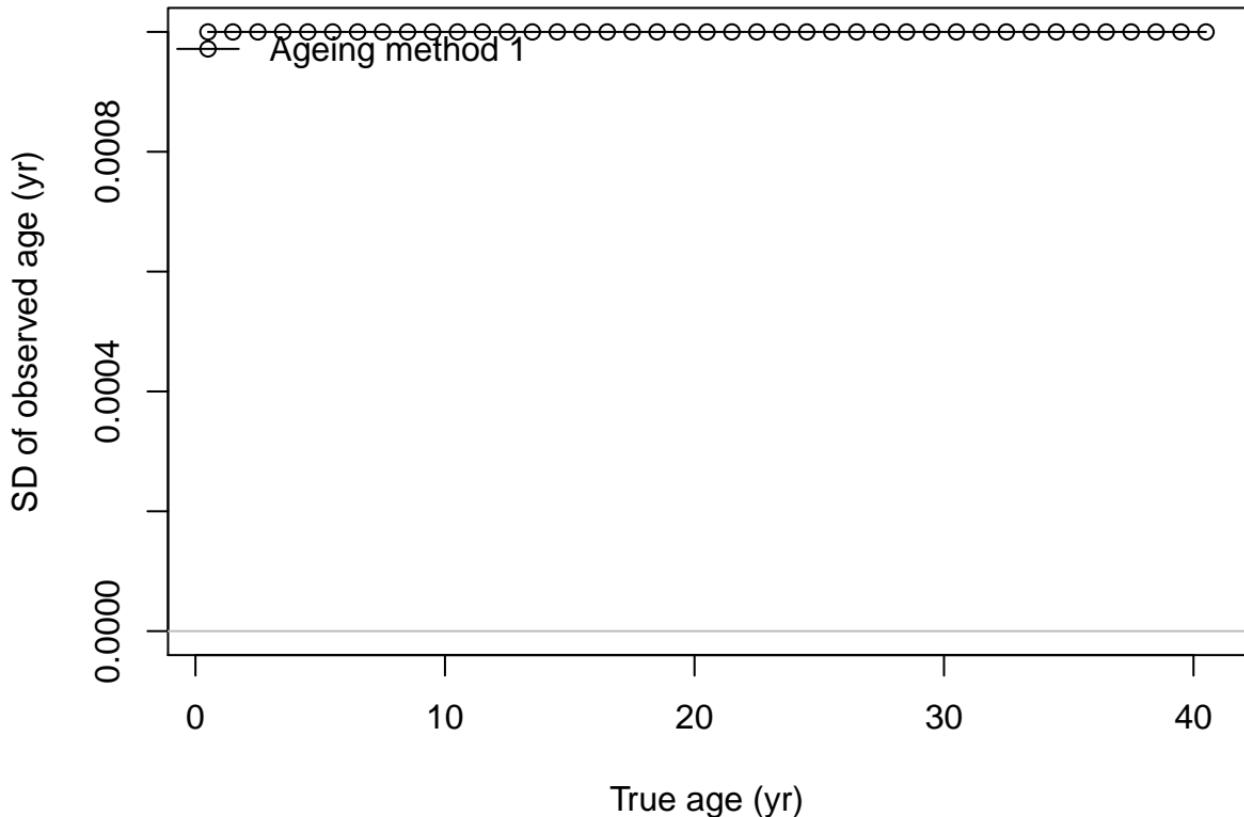
Sex ratio of numbers at length (females/males)



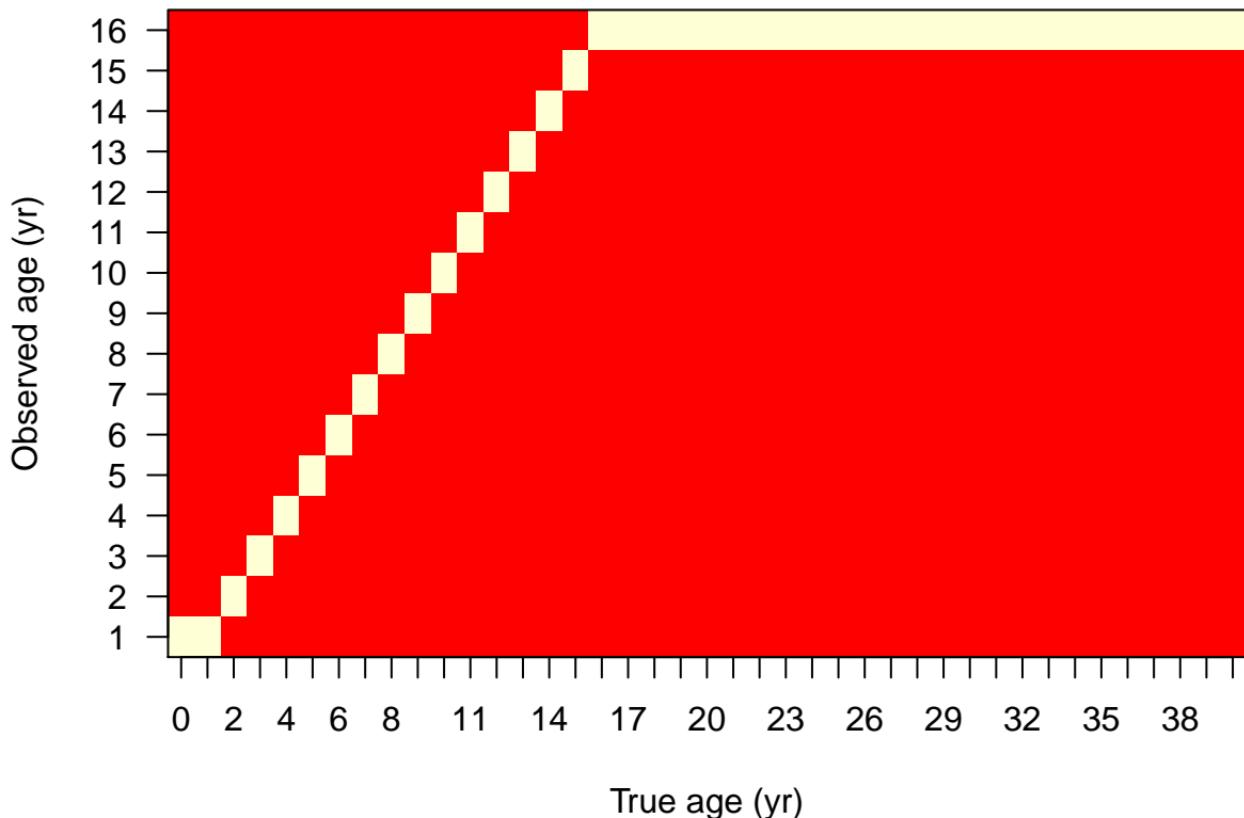
Equilibrium age distribution



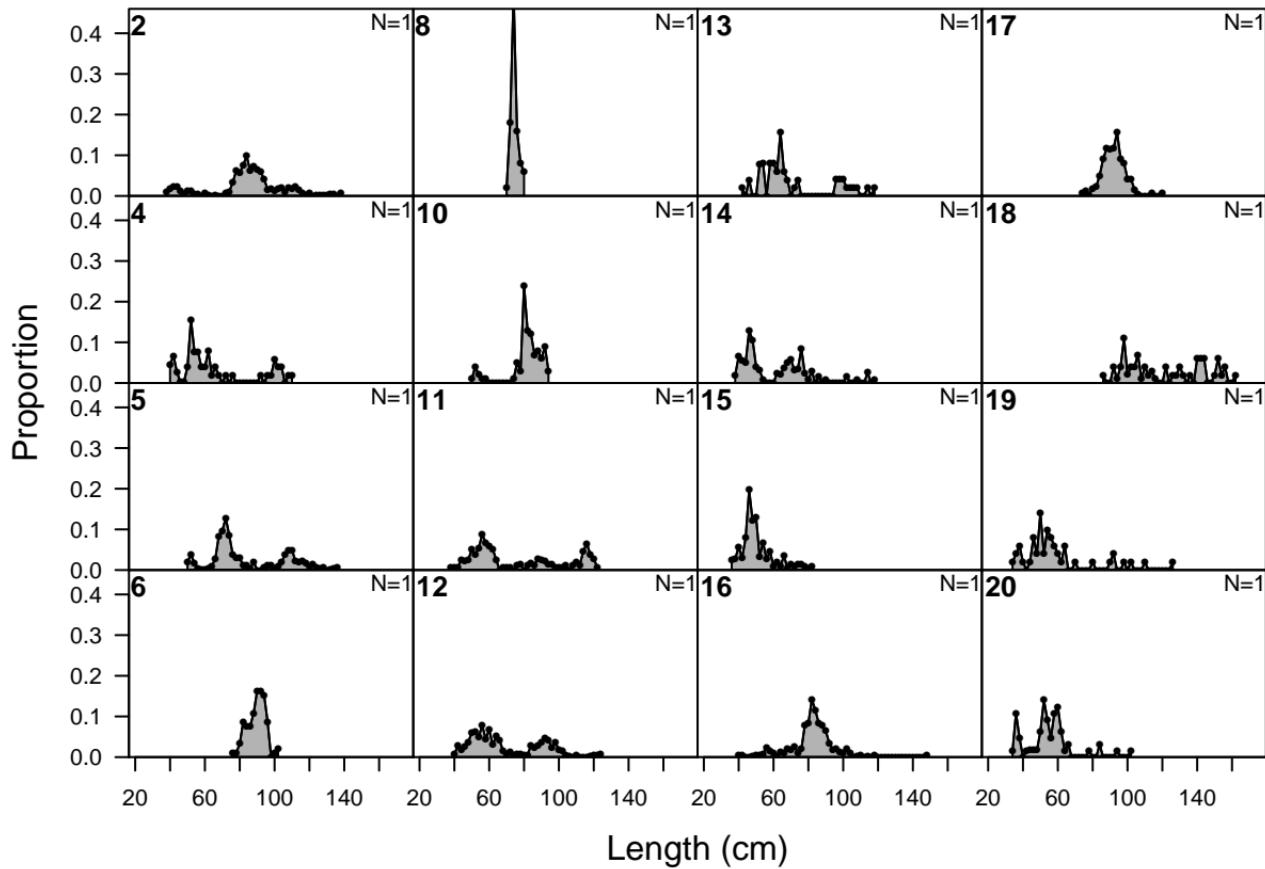
Ageing imprecision



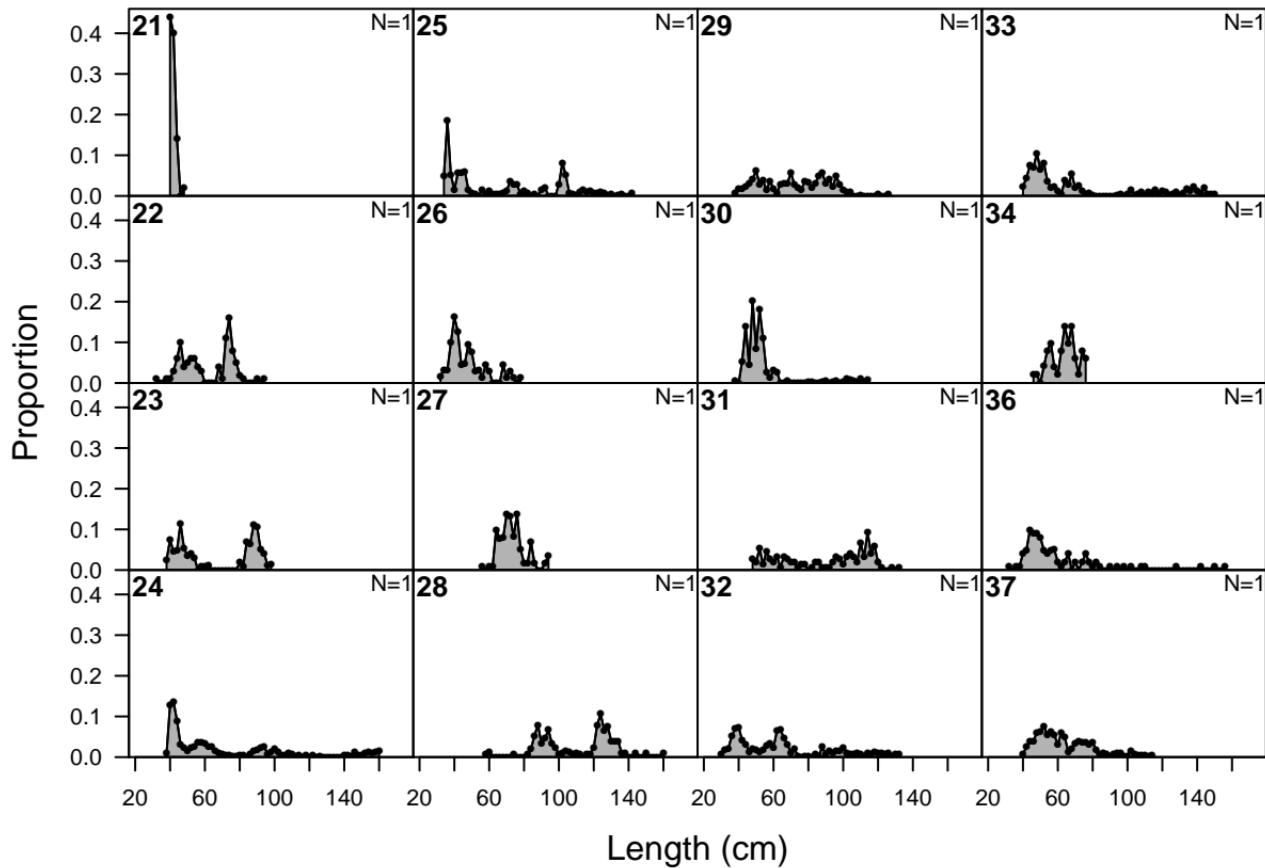
Ageing imprecision: matrix for method 1



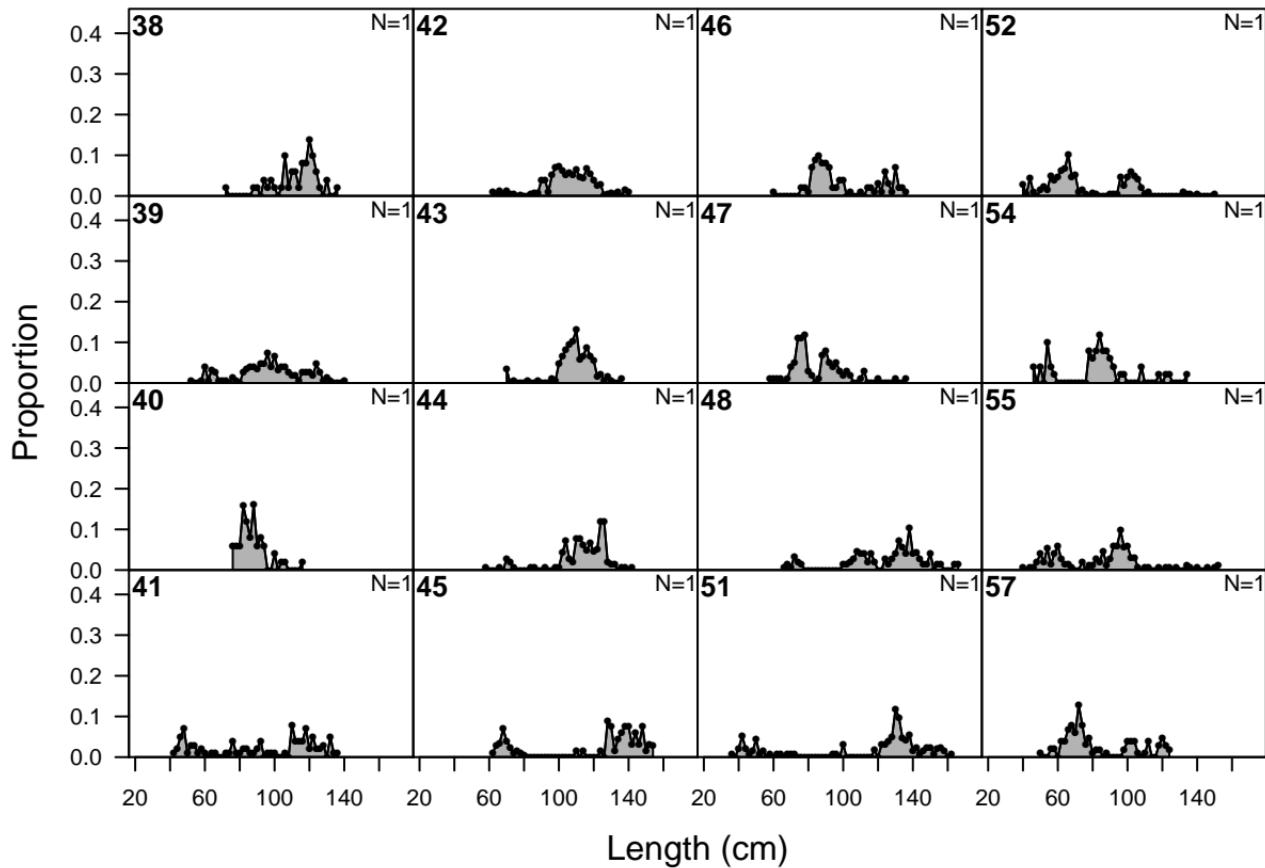
length comp data, whole catch, F1-OBJ_early



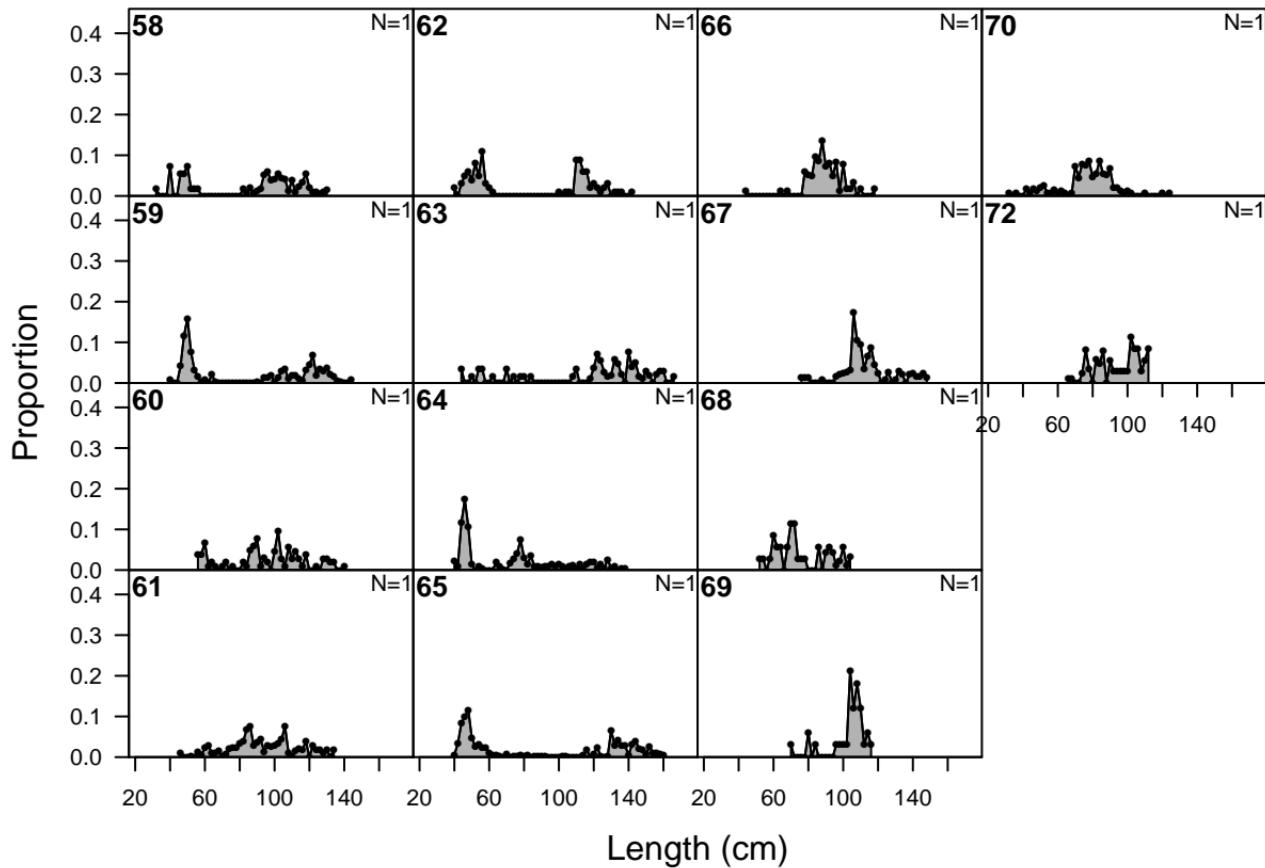
length comp data, whole catch, F1–OBJ_early



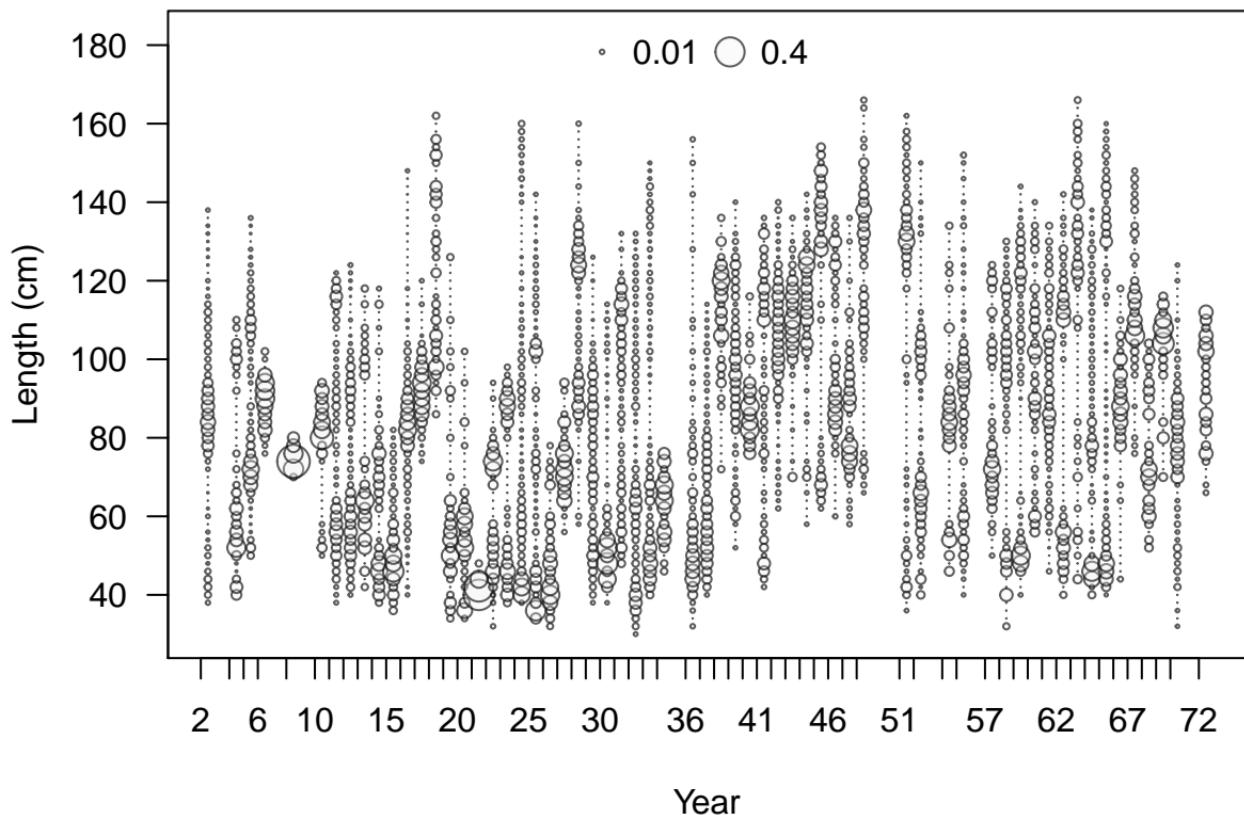
length comp data, whole catch, F1–OBJ_early



length comp data, whole catch, F1–OBJ_early

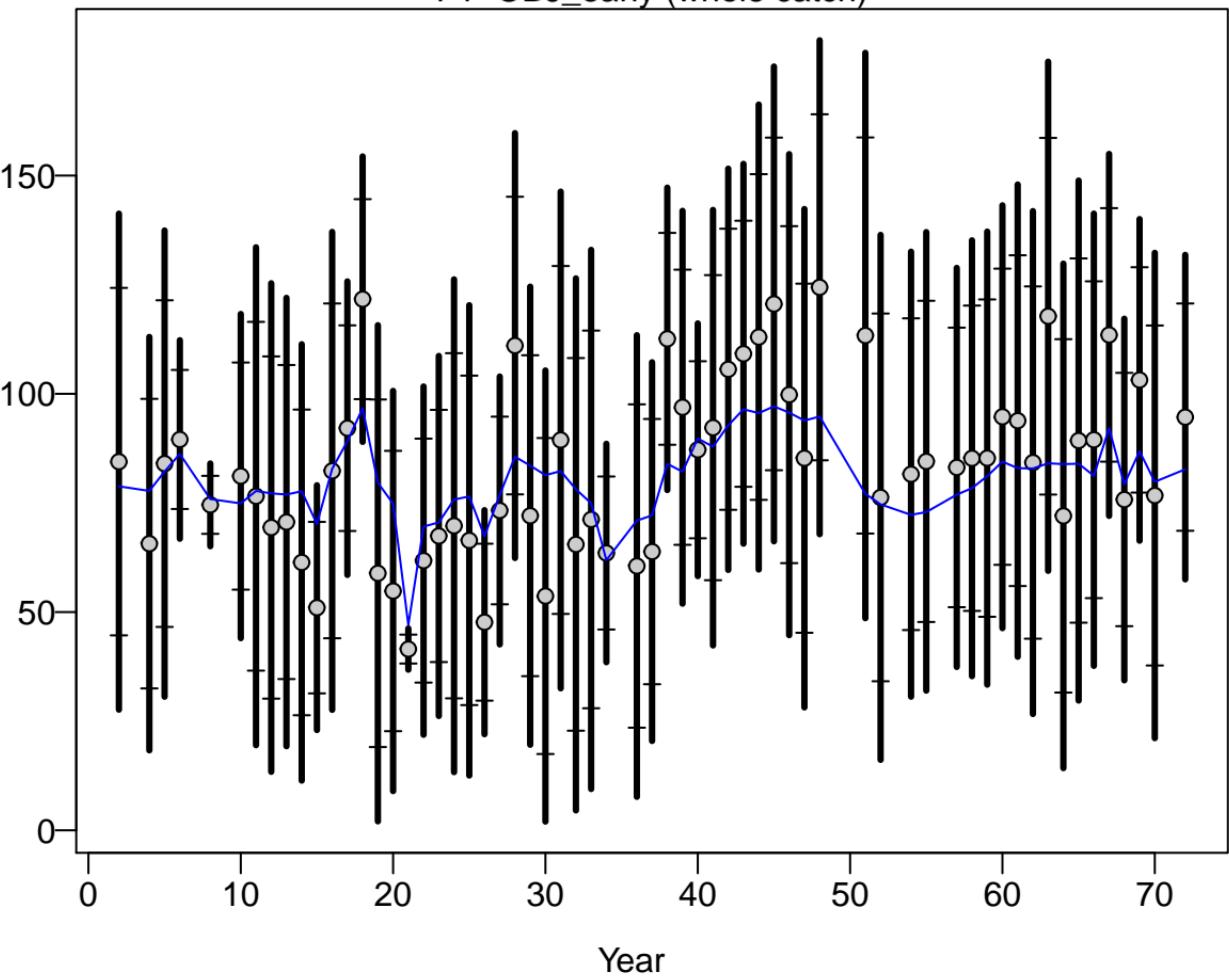


length comp data, whole catch, F1–OBJ_early (max=0.5)

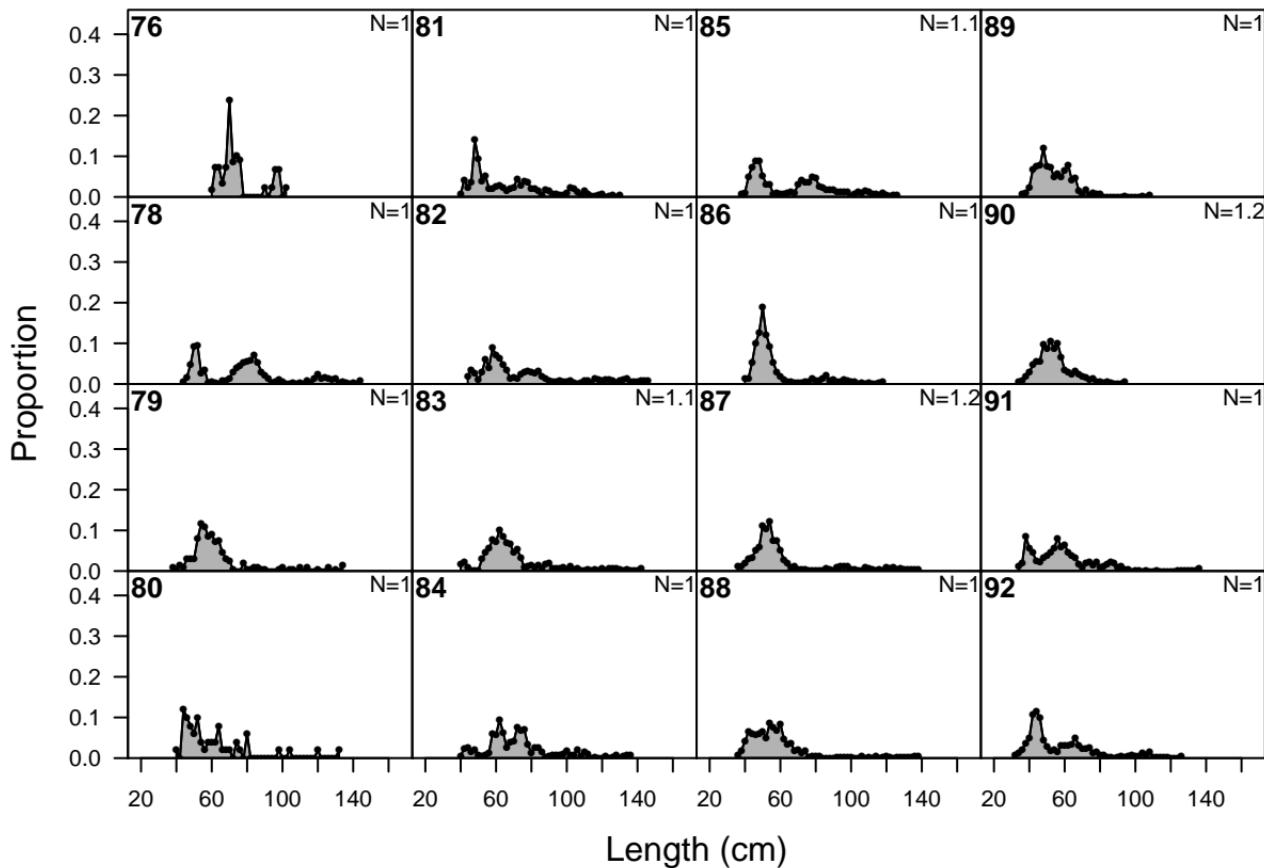


F1-OBJ_early (whole catch)

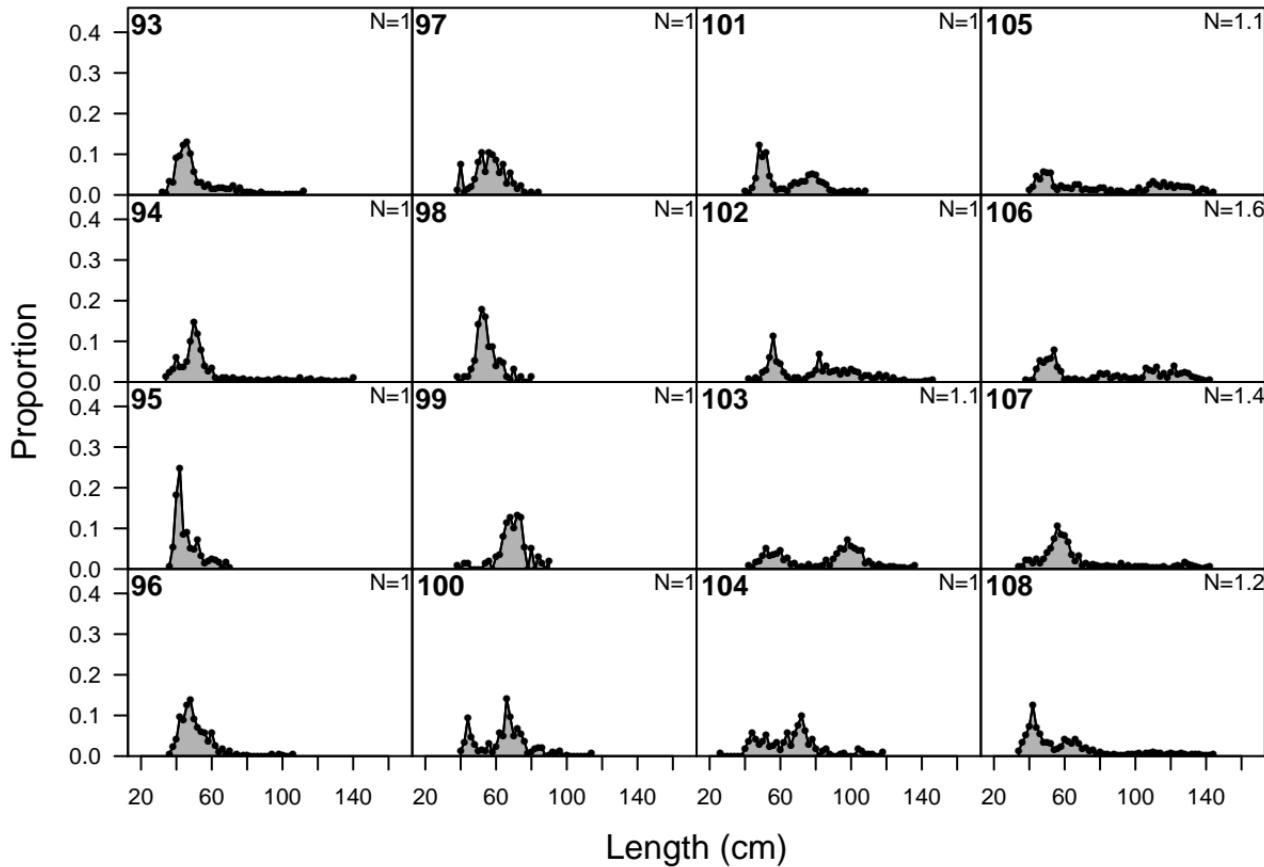
Mean length



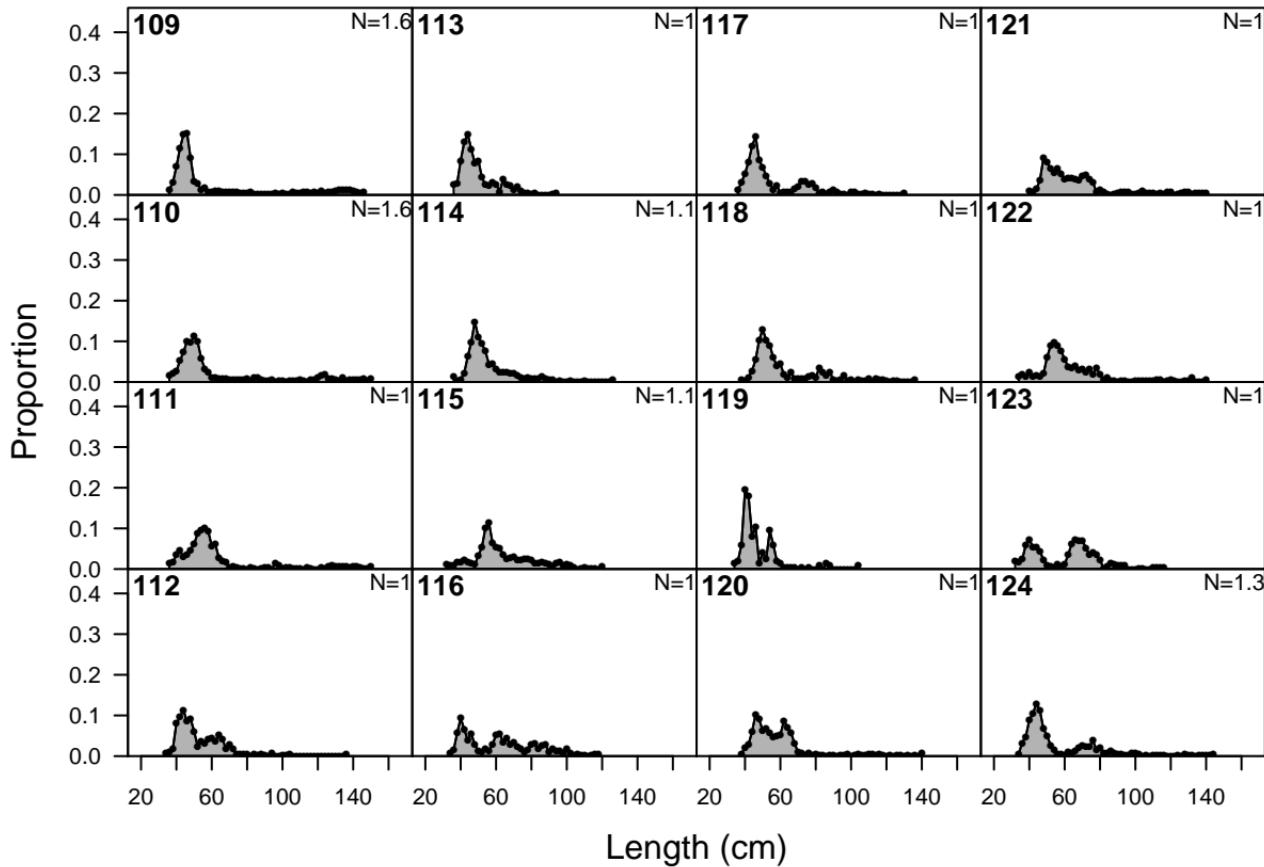
length comp data, whole catch, F2-OBJ_S



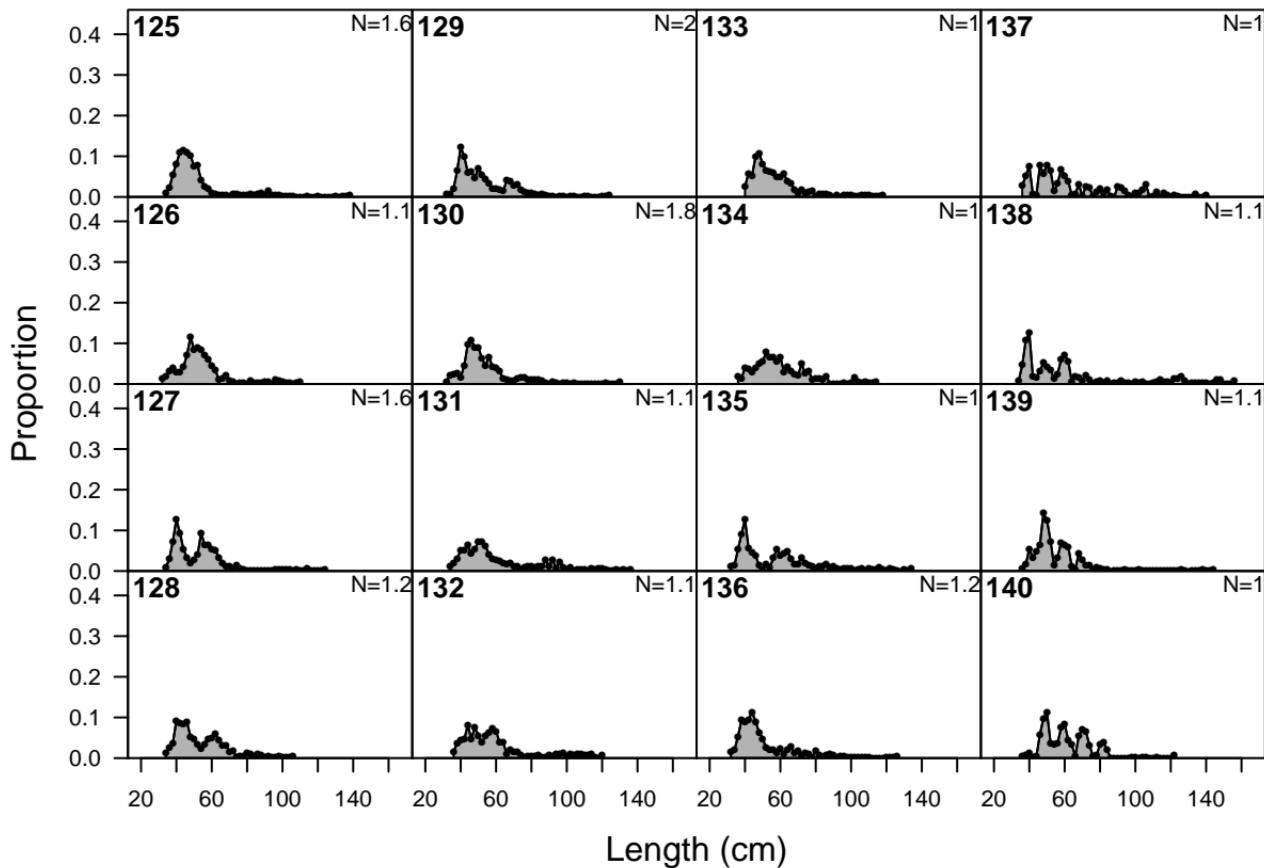
length comp data, whole catch, F2-OBJ_S



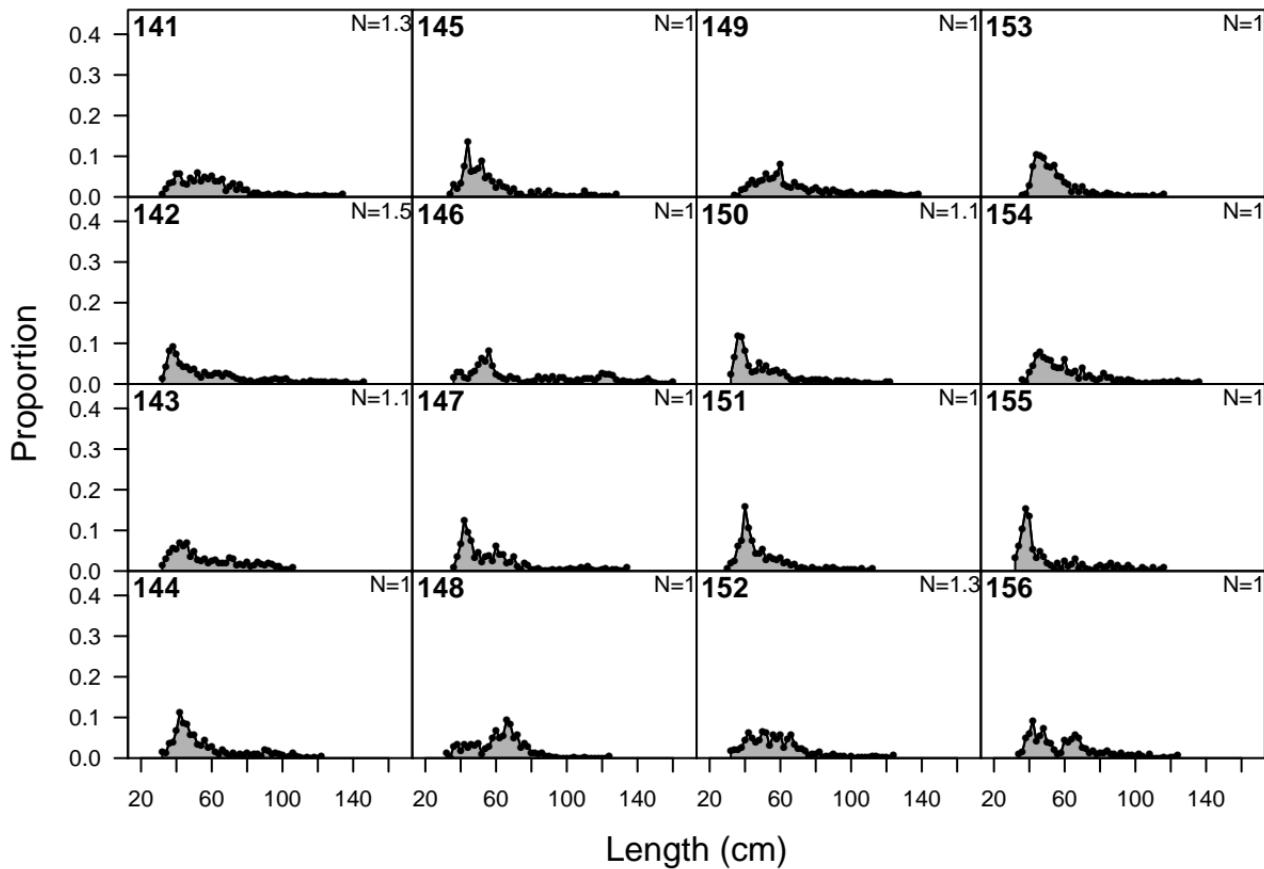
length comp data, whole catch, F2-OBJ_S



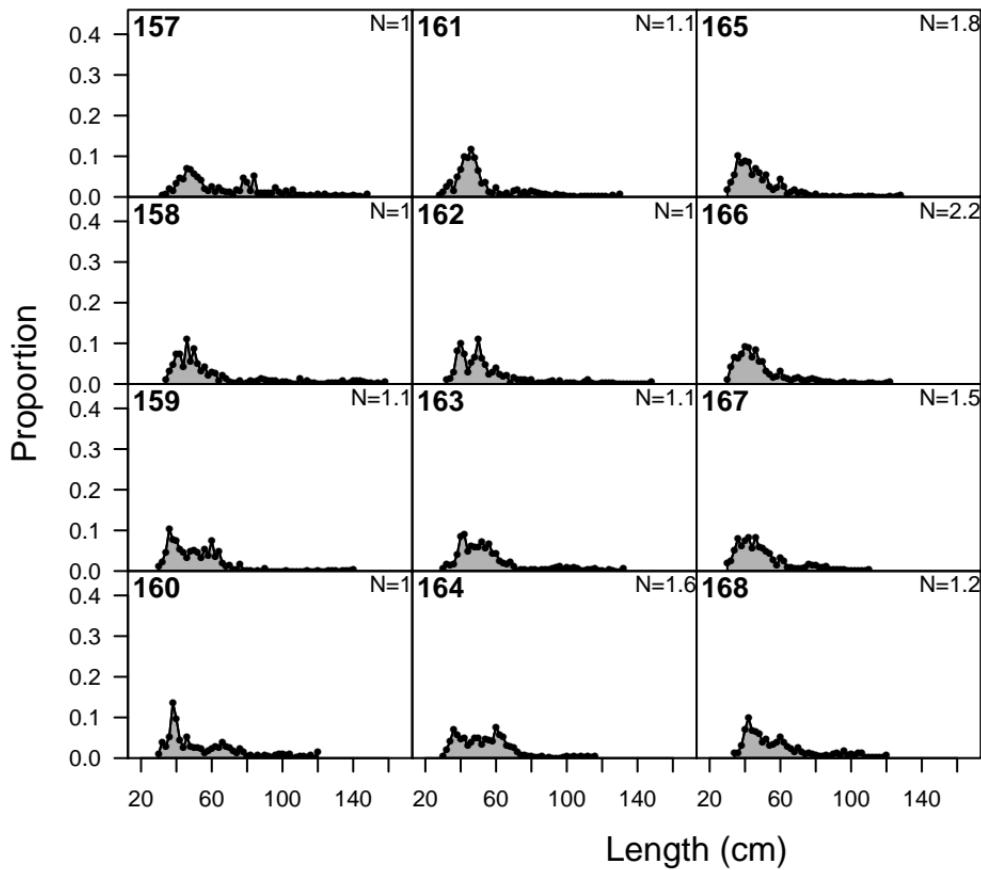
length comp data, whole catch, F2-OBJ_S



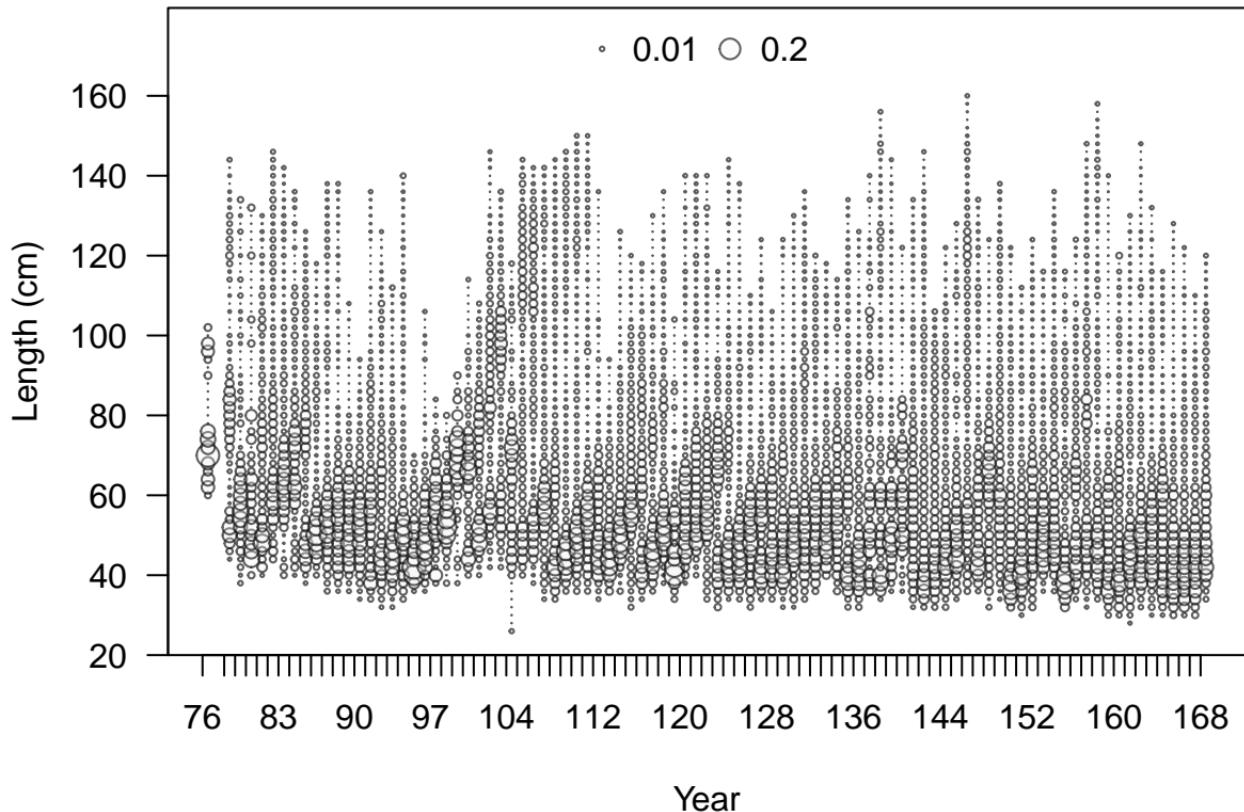
length comp data, whole catch, F2-OBJ_S



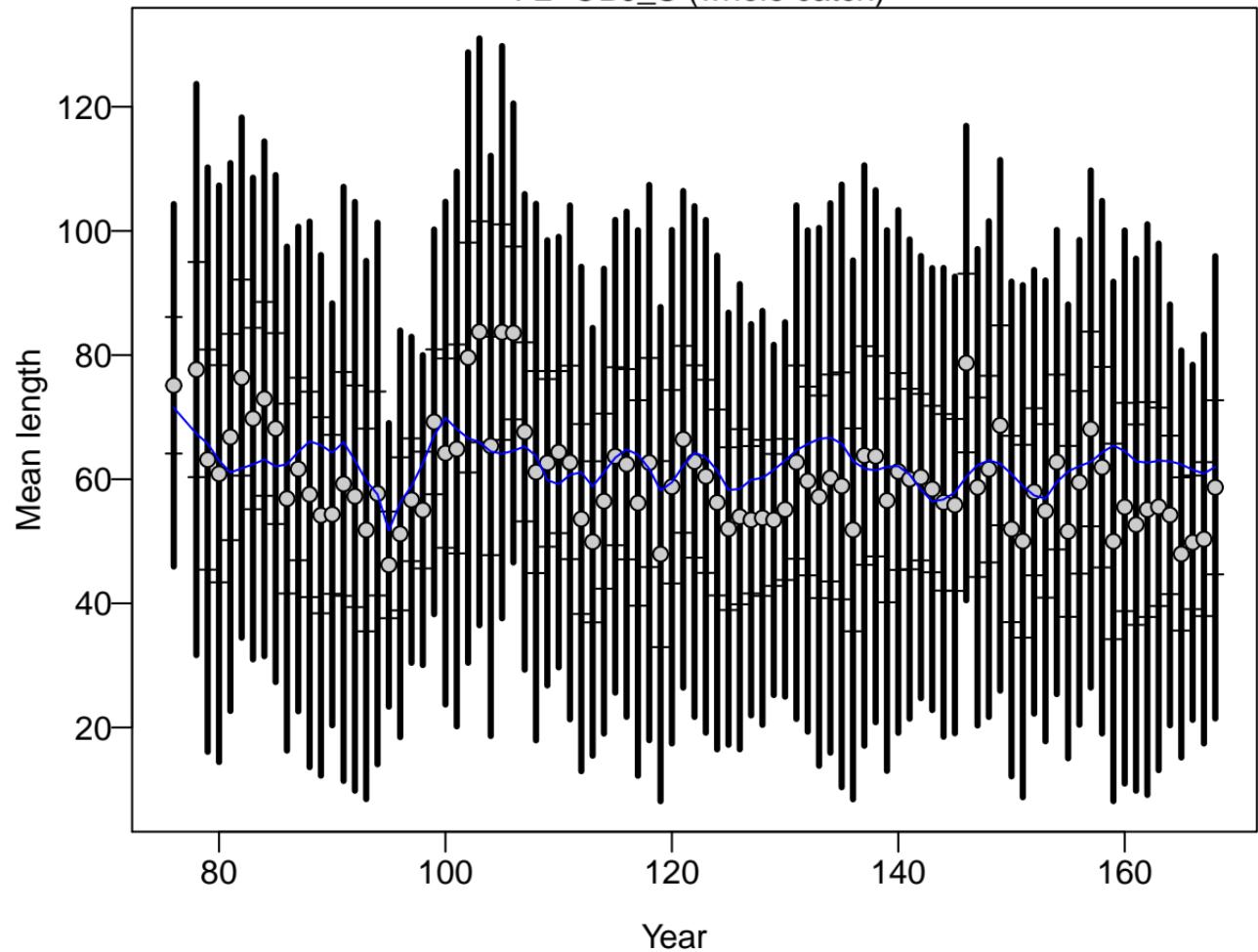
length comp data, whole catch, F2-OBJ_S



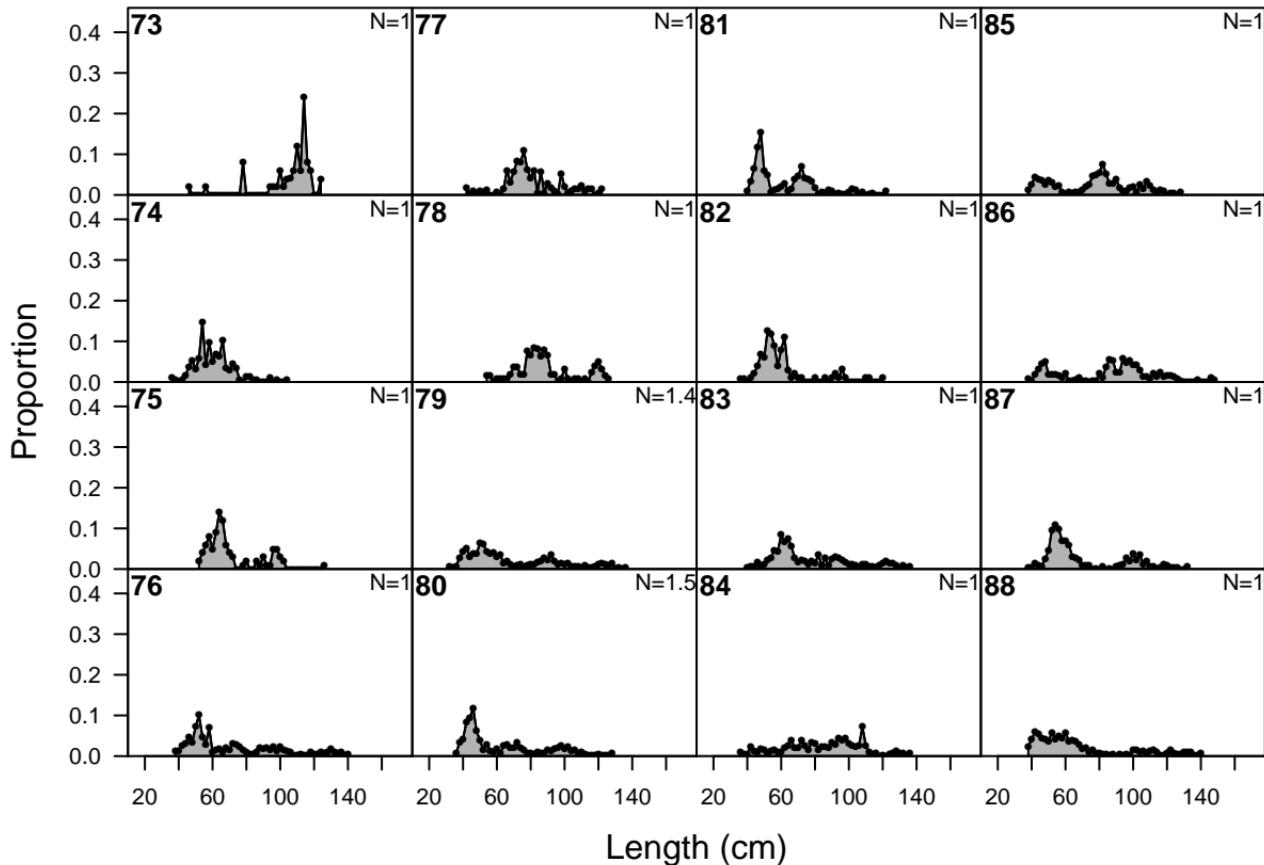
length comp data, whole catch, F2-OBJ_S (max=0.25)



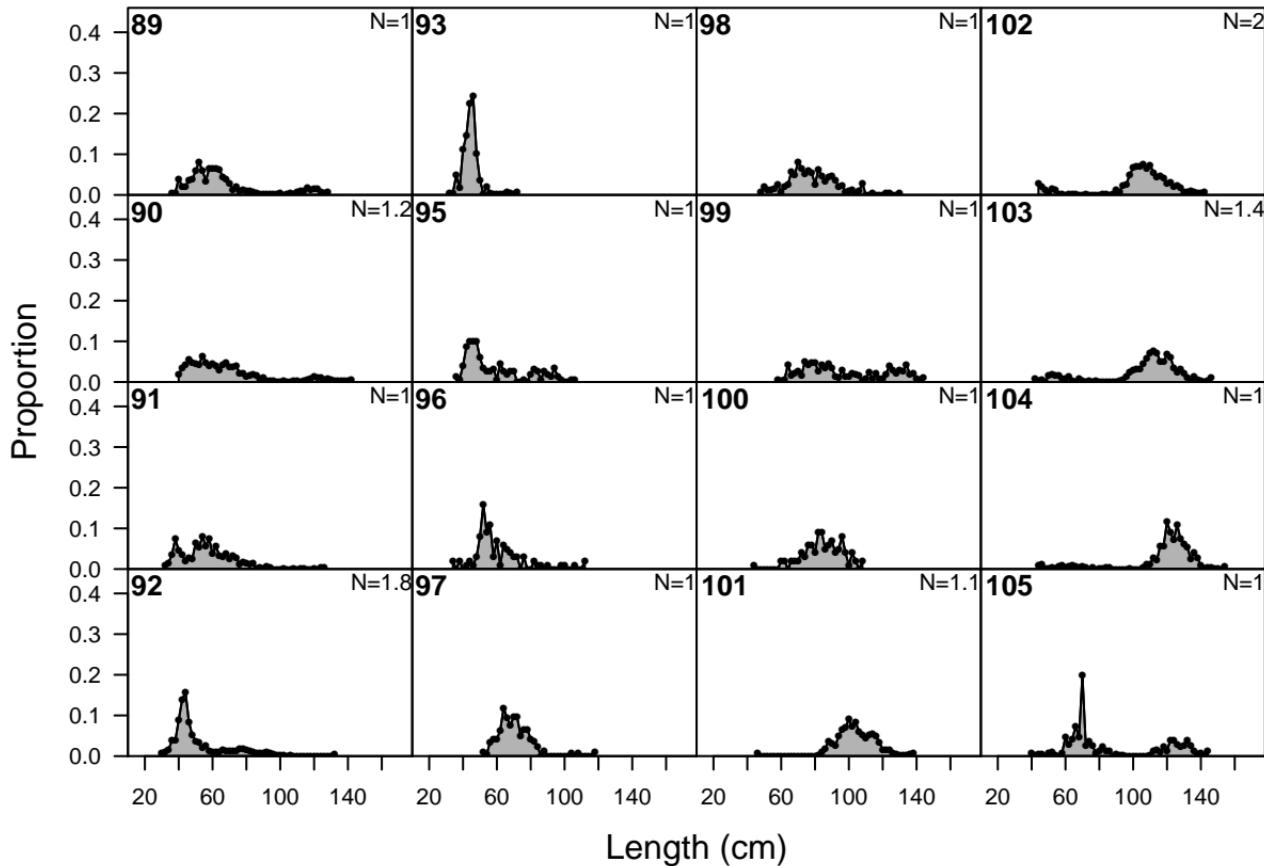
F2-OBJ_S (whole catch)



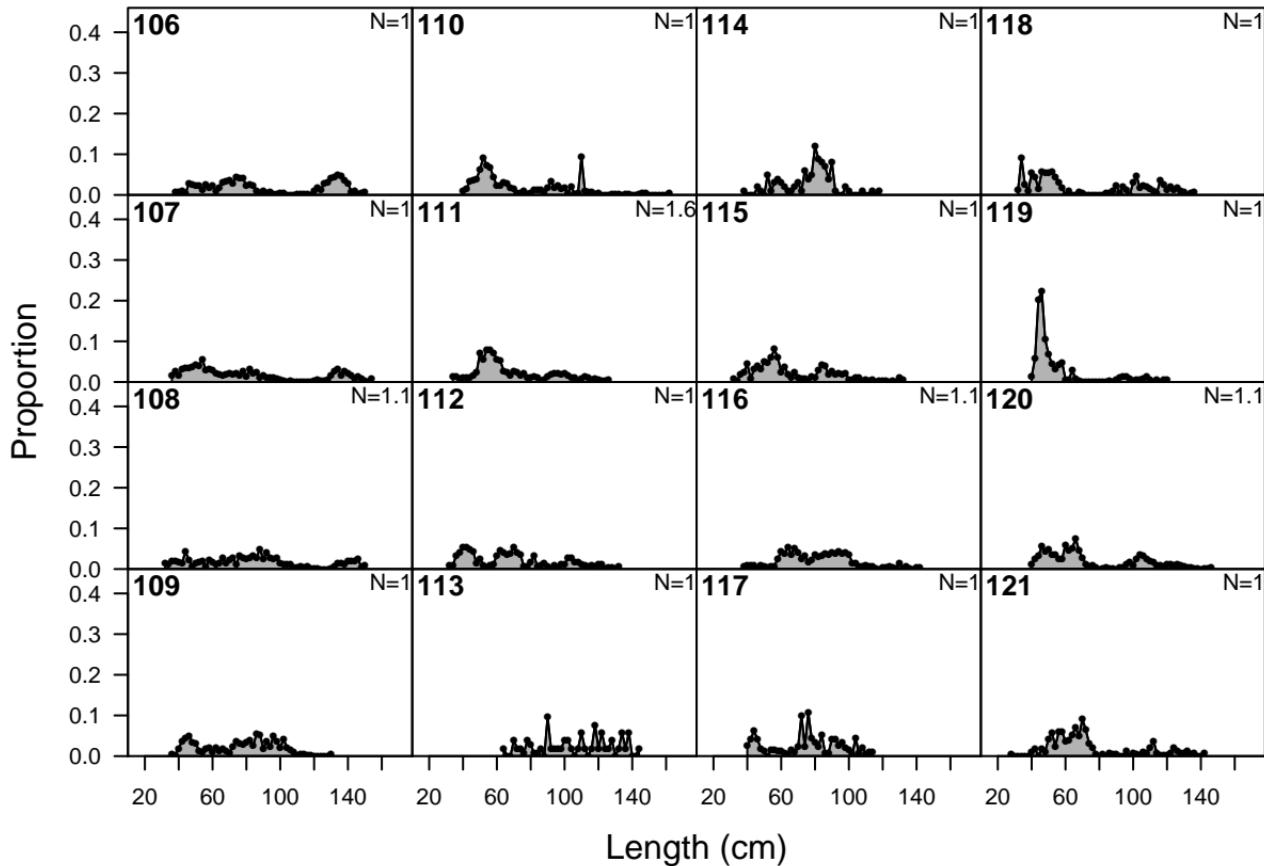
length comp data, whole catch, F3–OBJ_C



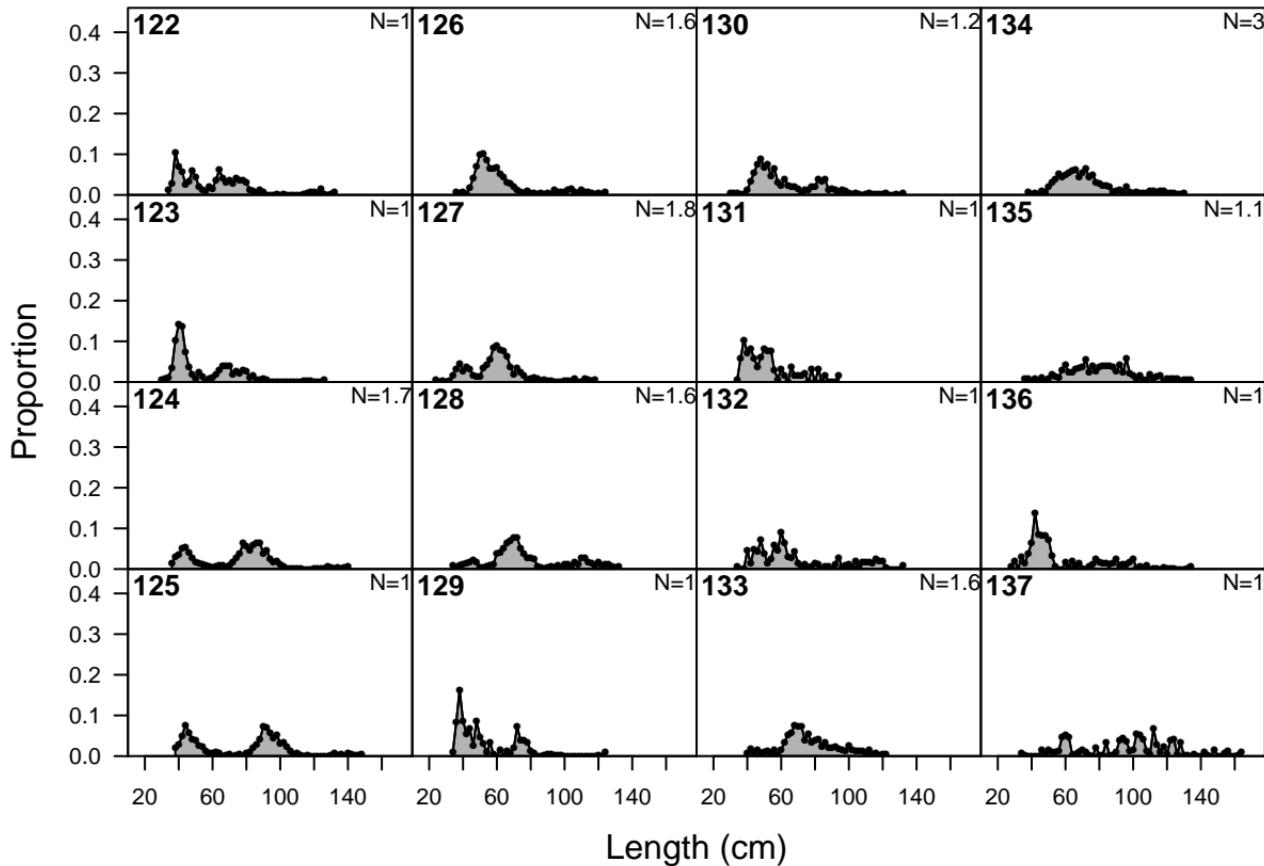
length comp data, whole catch, F3–OBJ_C



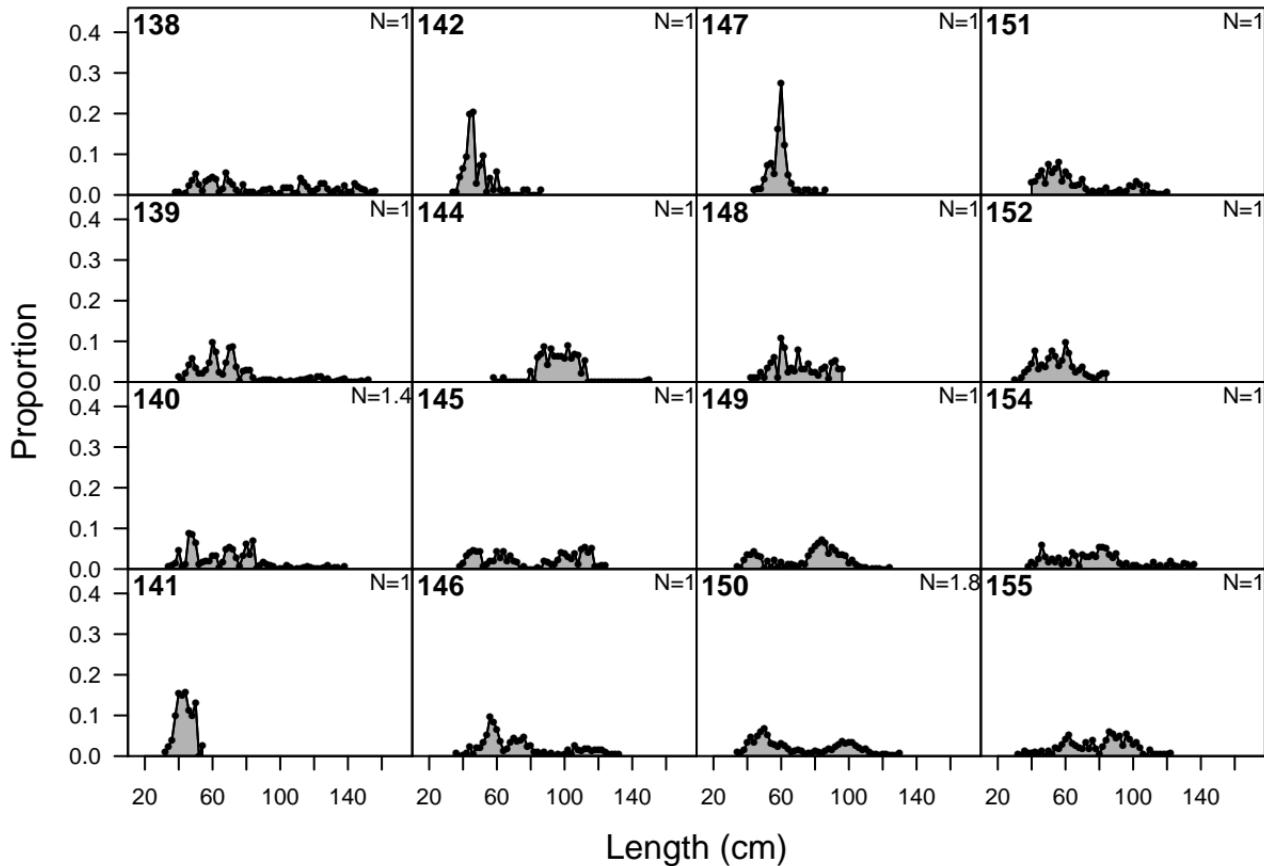
length comp data, whole catch, F3–OBJ_C



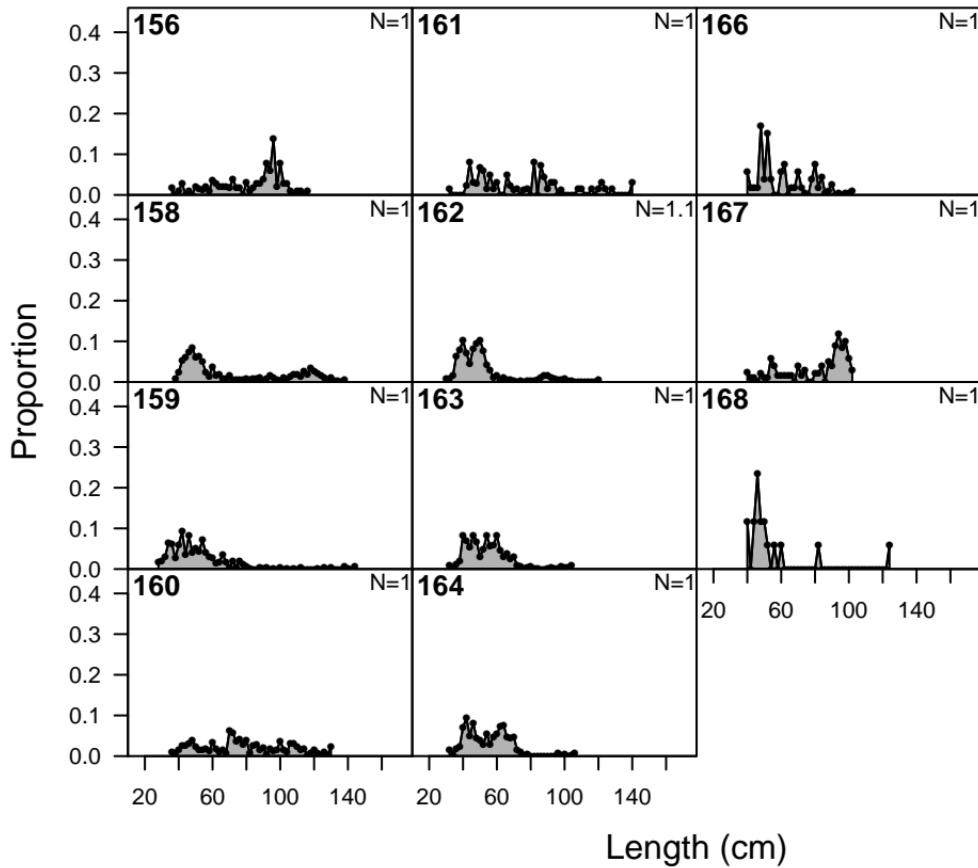
length comp data, whole catch, F3–OBJ_C



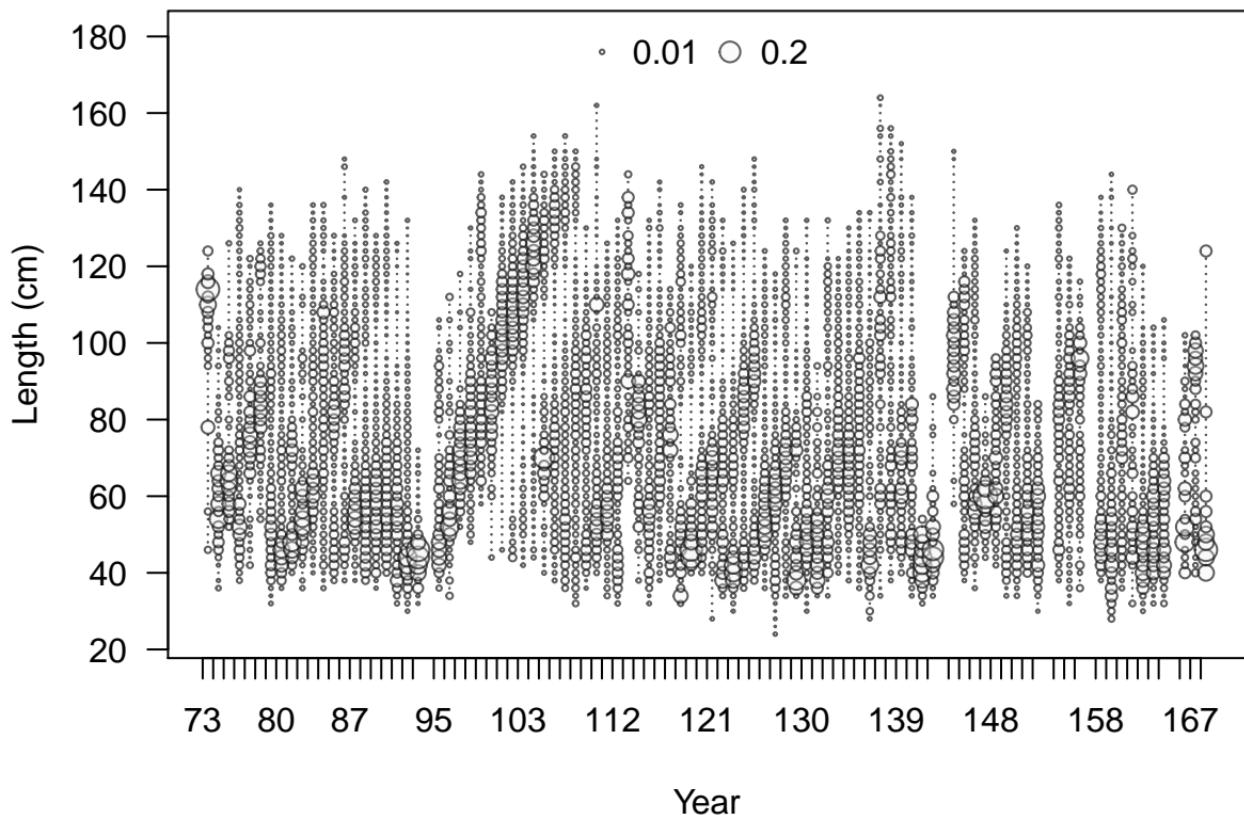
length comp data, whole catch, F3–OBJ_C



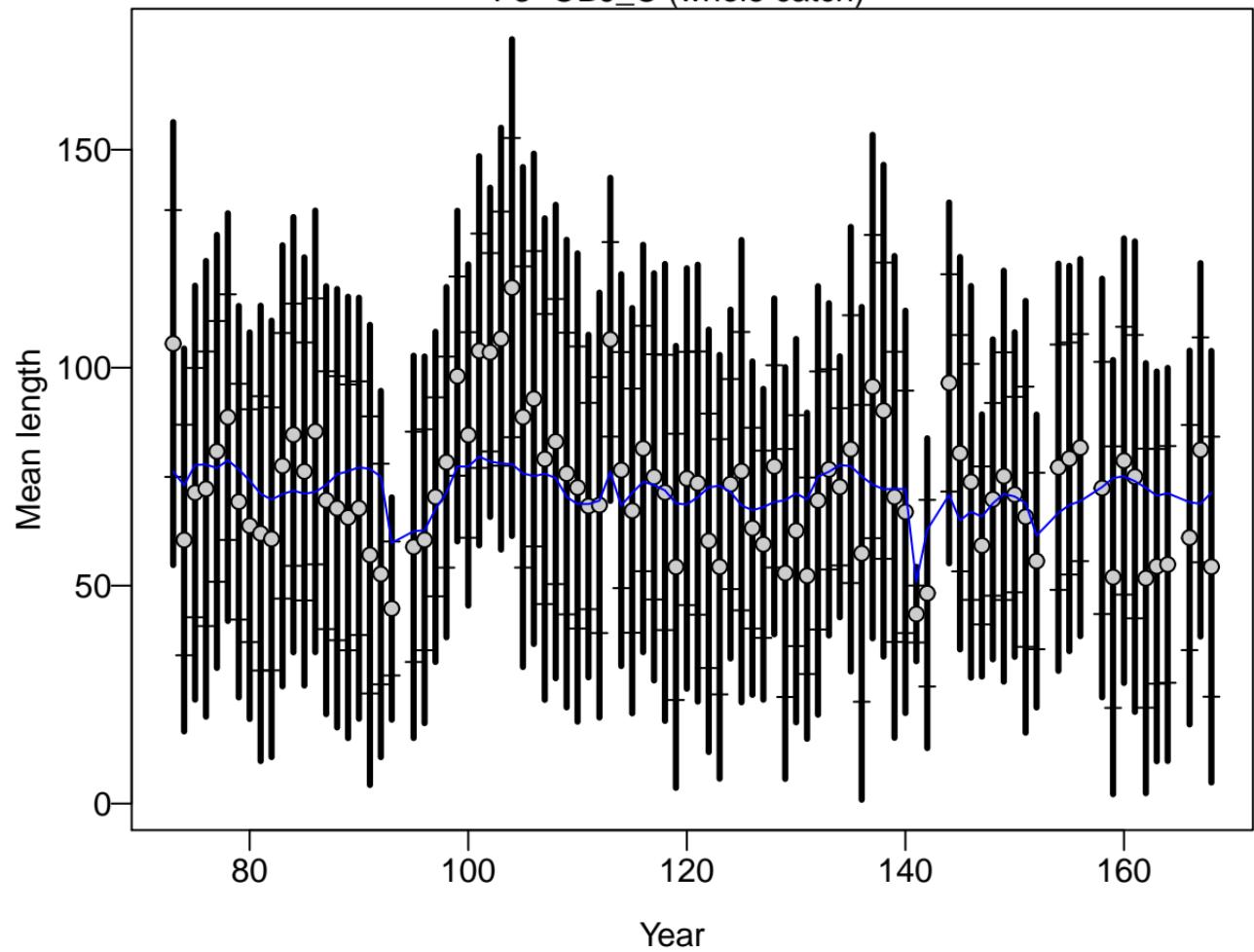
length comp data, whole catch, F3–OBJ_C



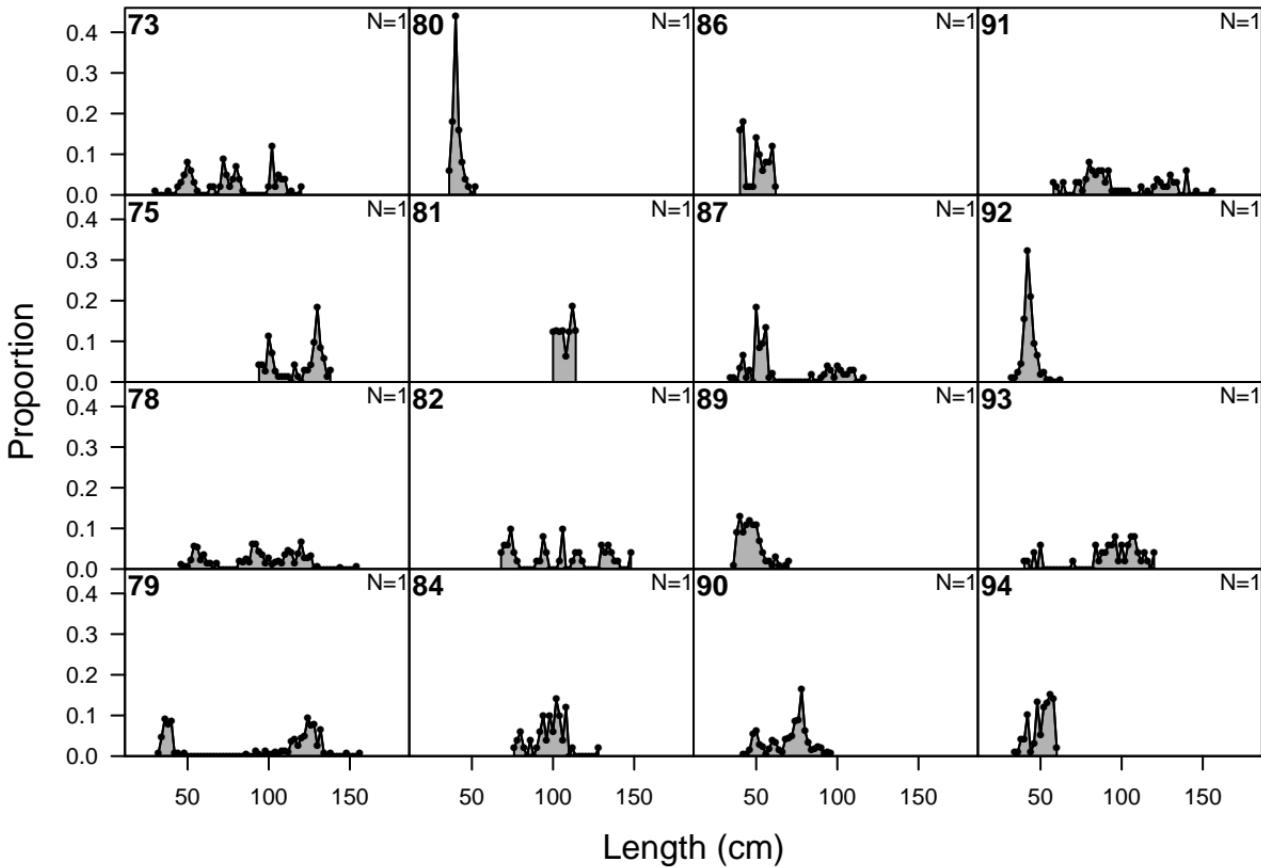
length comp data, whole catch, F3–OBJ_C (max=0.28)



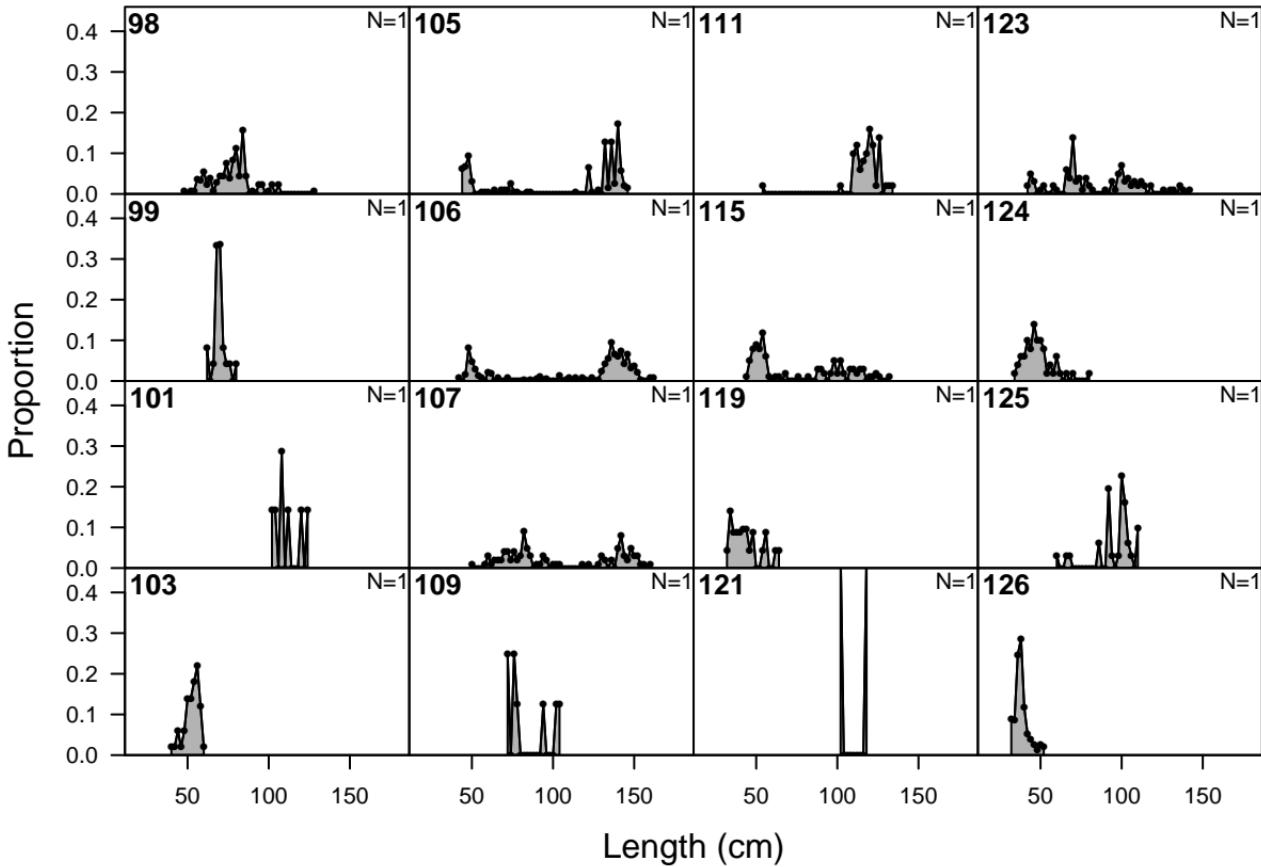
F3-OBJ_C (whole catch)



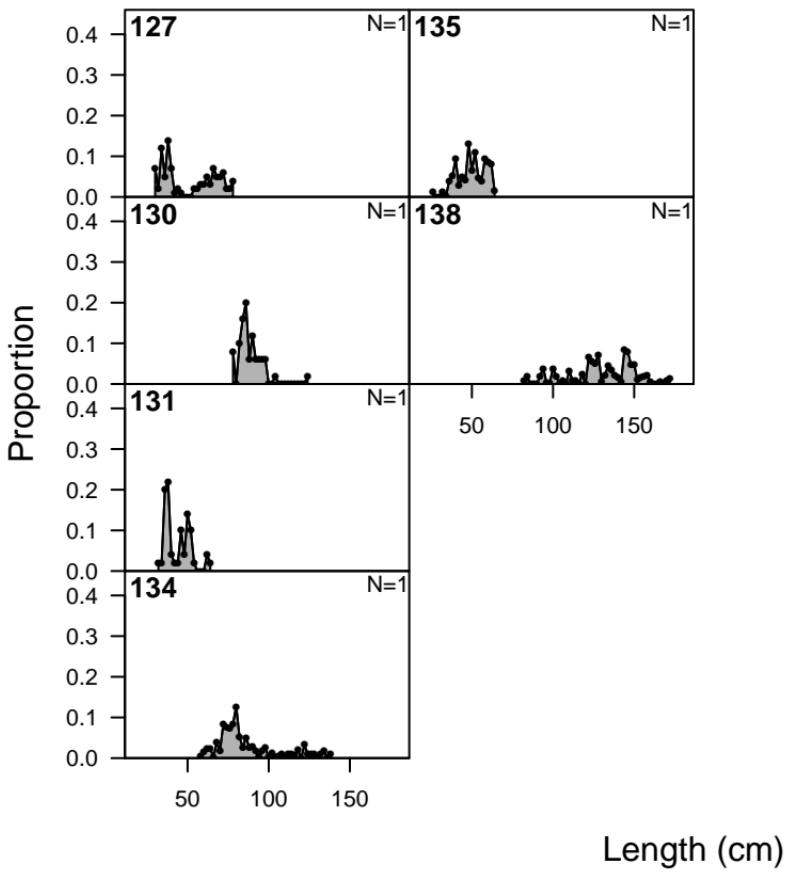
length comp data, whole catch, F4–OBJ_I



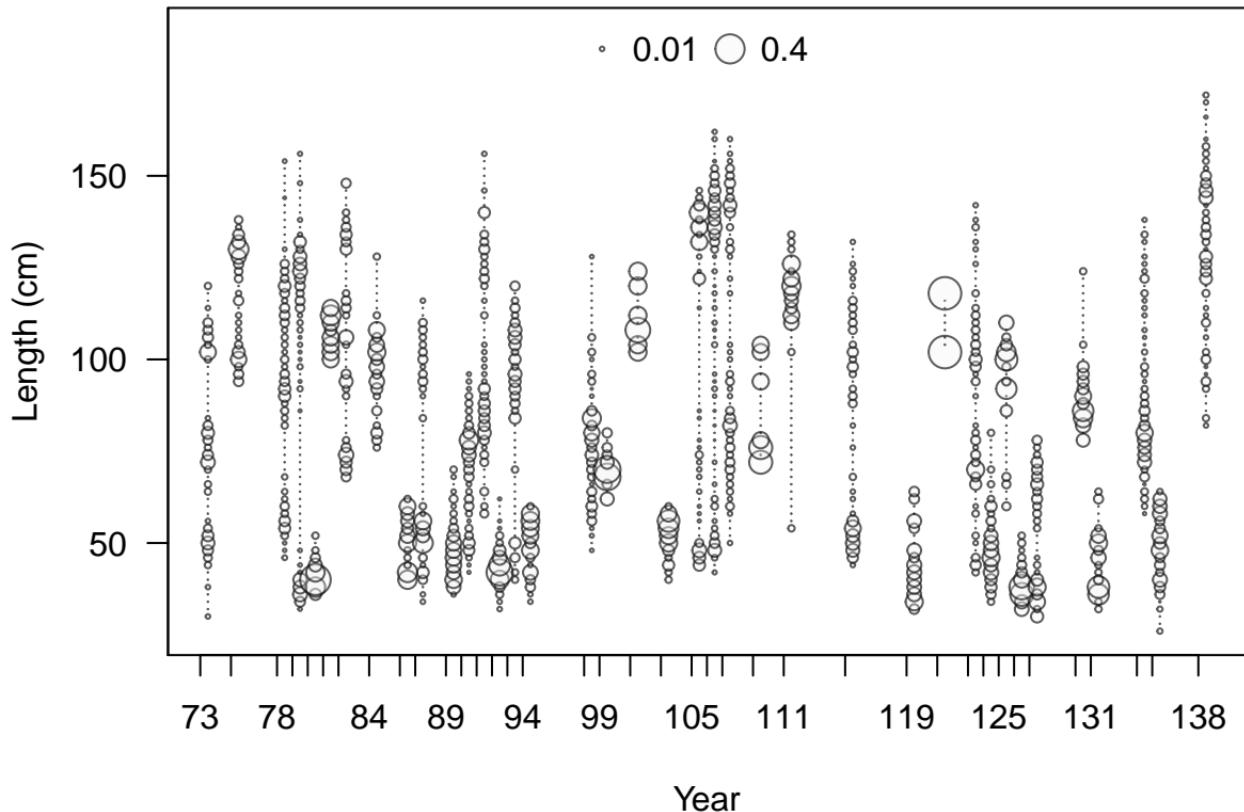
length comp data, whole catch, F4–OBJ_I



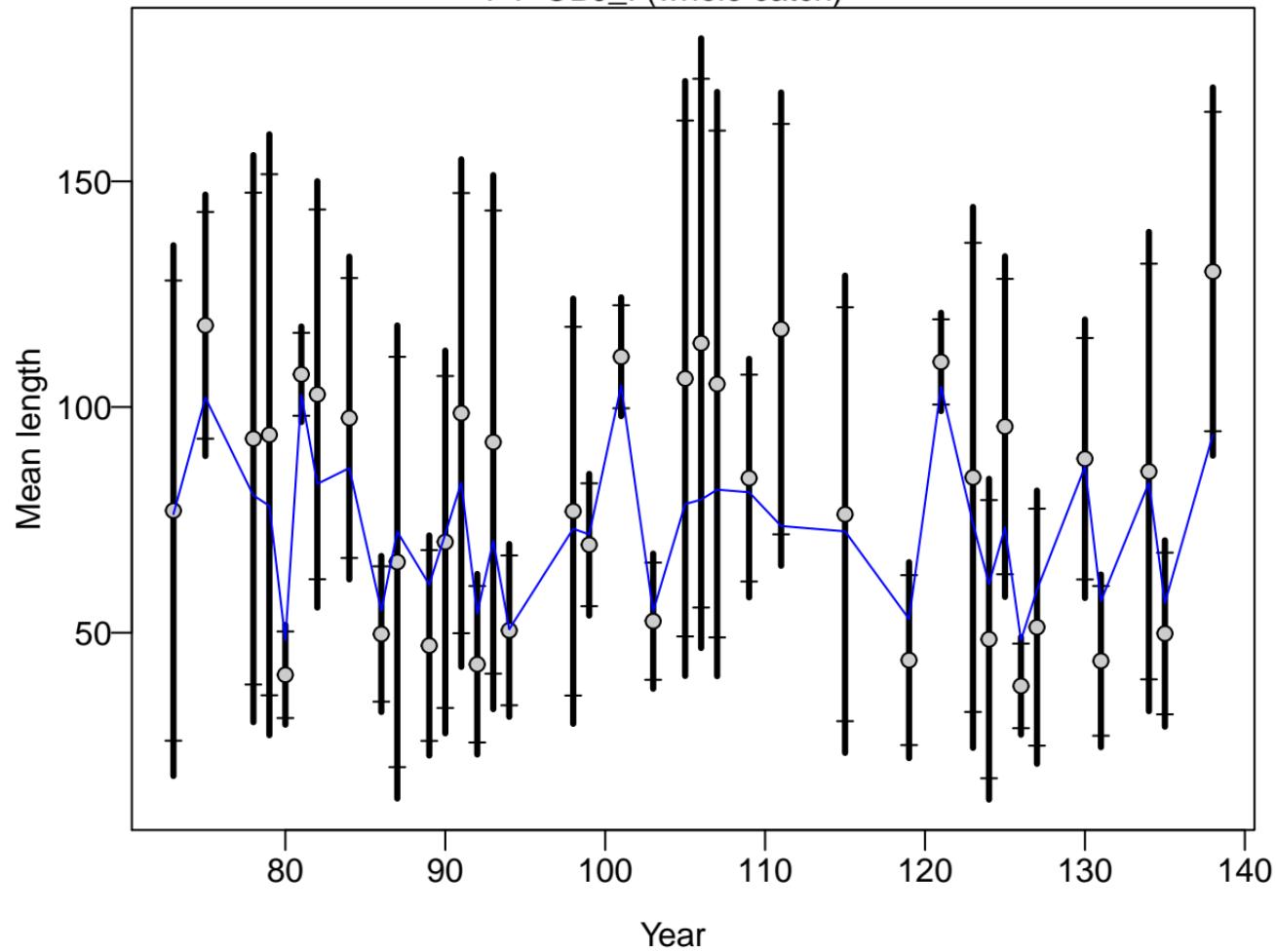
length comp data, whole catch, F4–OBJ_I



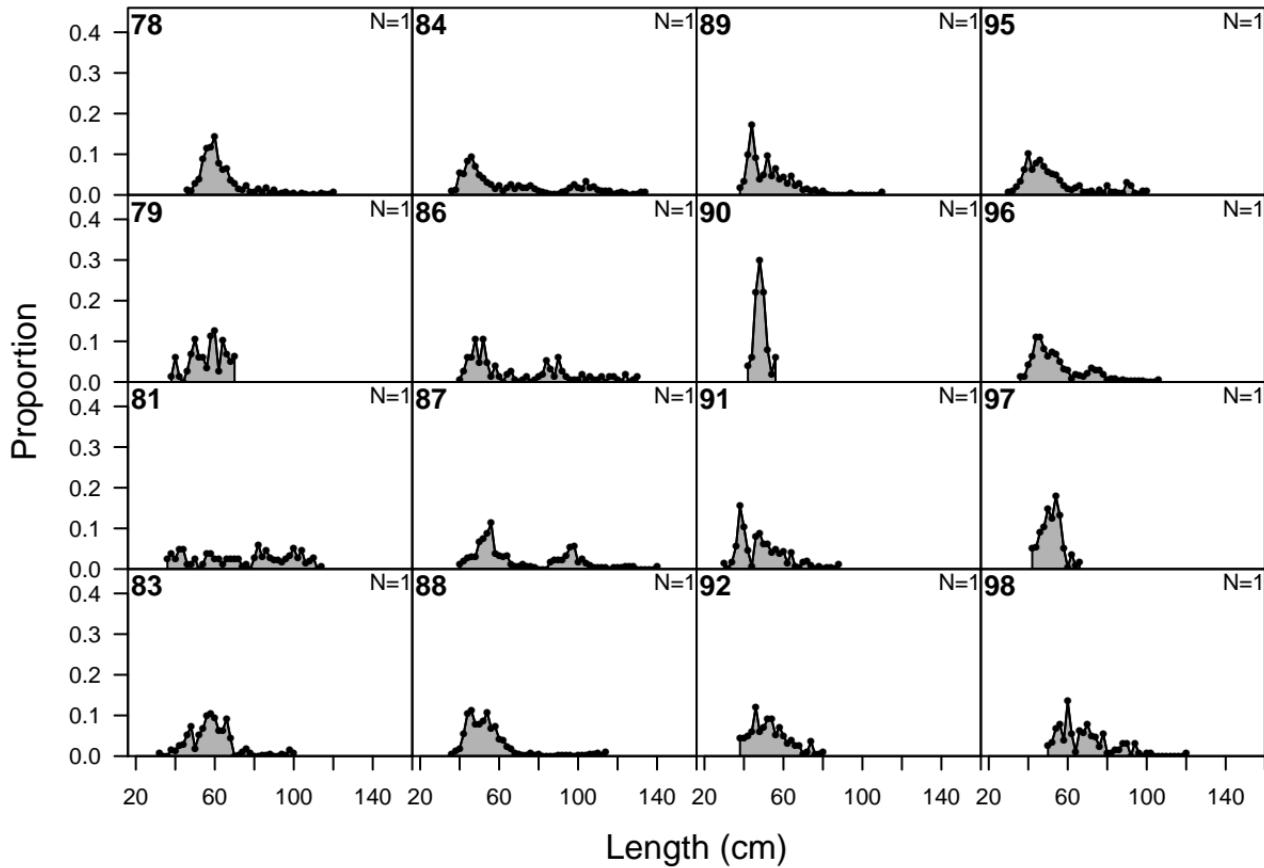
length comp data, whole catch, F4–OBJ_I (max=0.5)



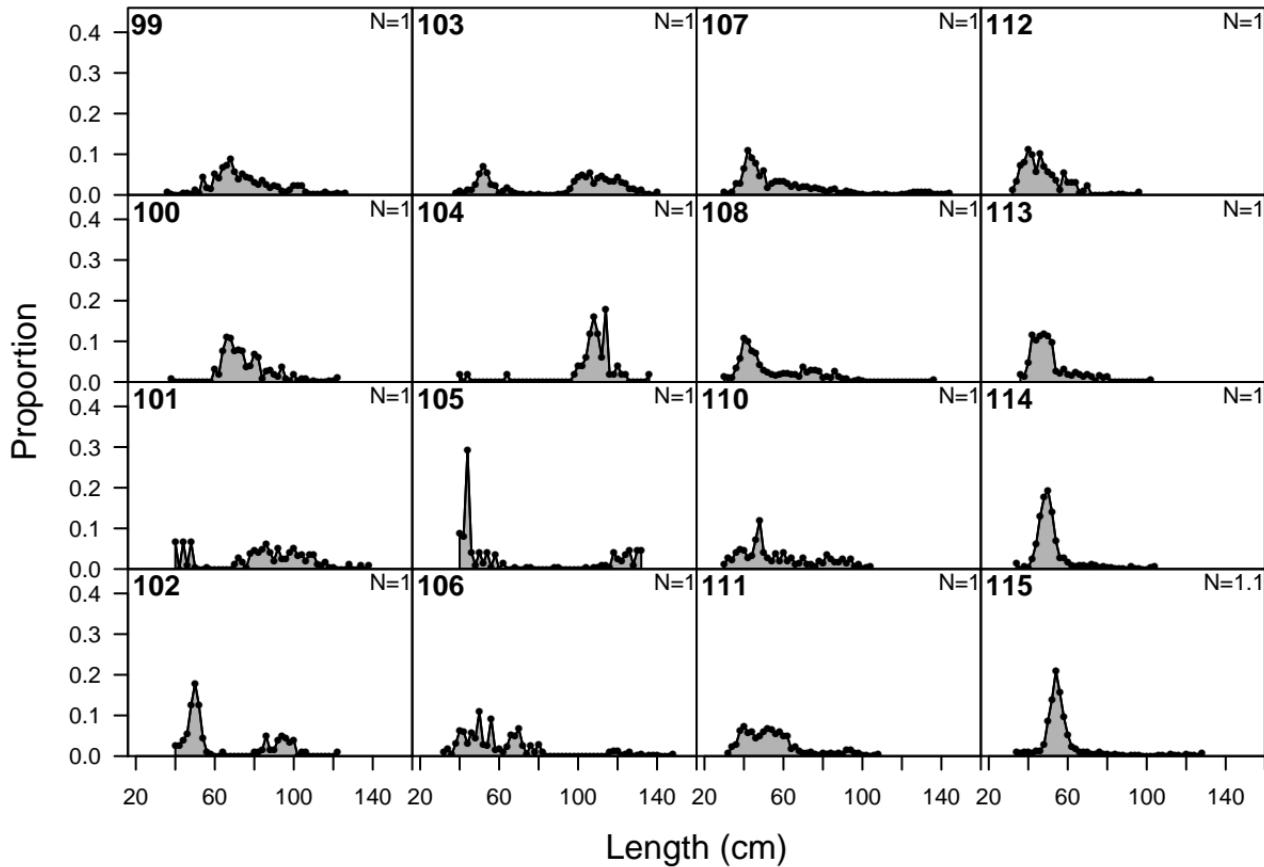
F4-OBJ_I (whole catch)



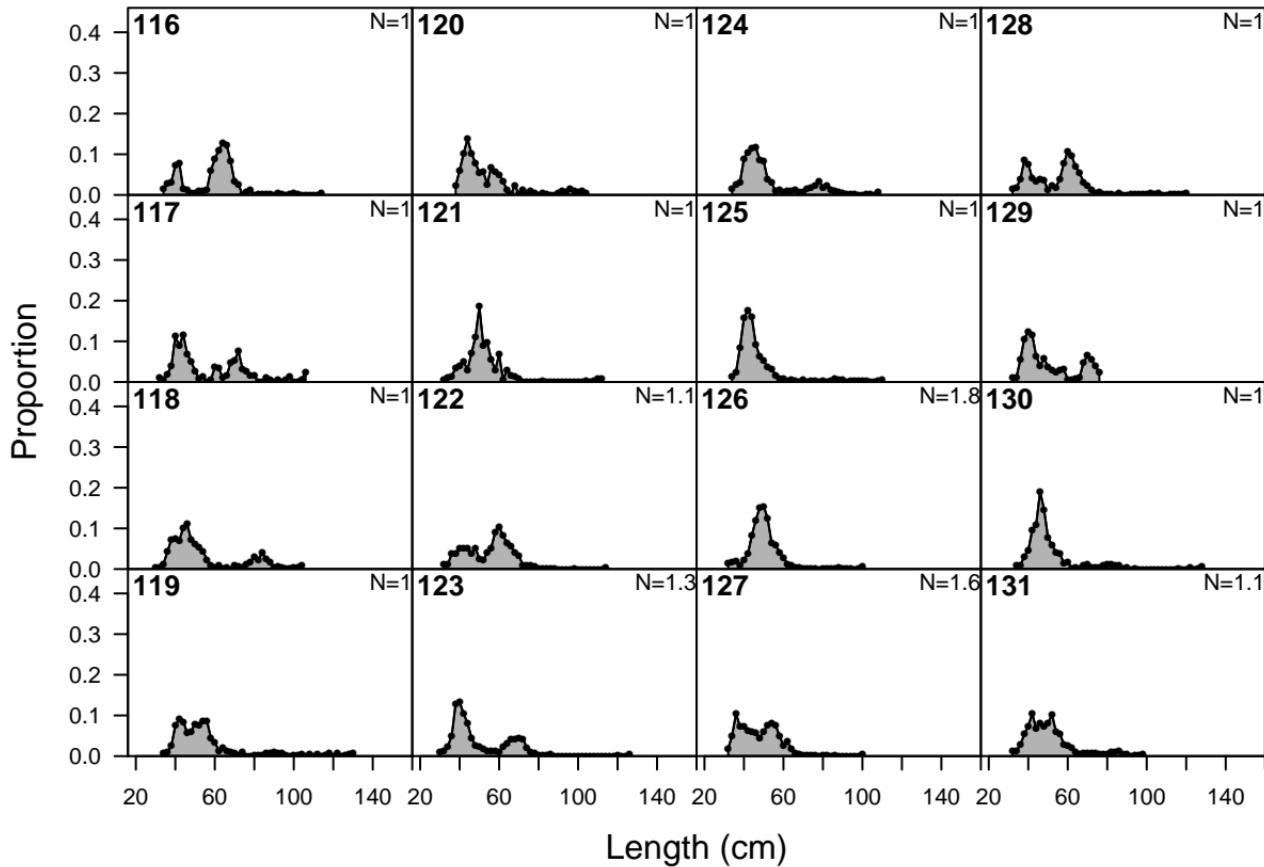
length comp data, whole catch, F5–OBJ_N



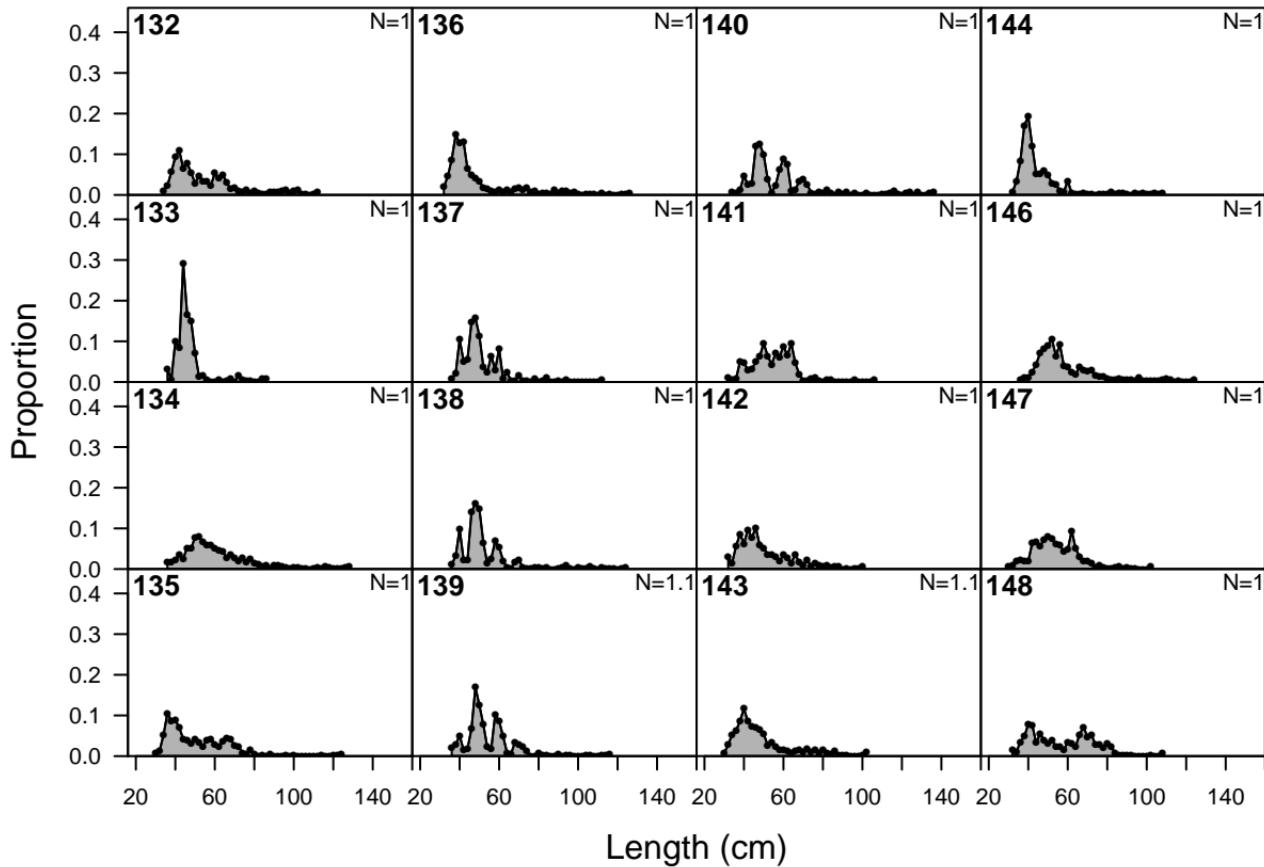
length comp data, whole catch, F5–OBJ_N



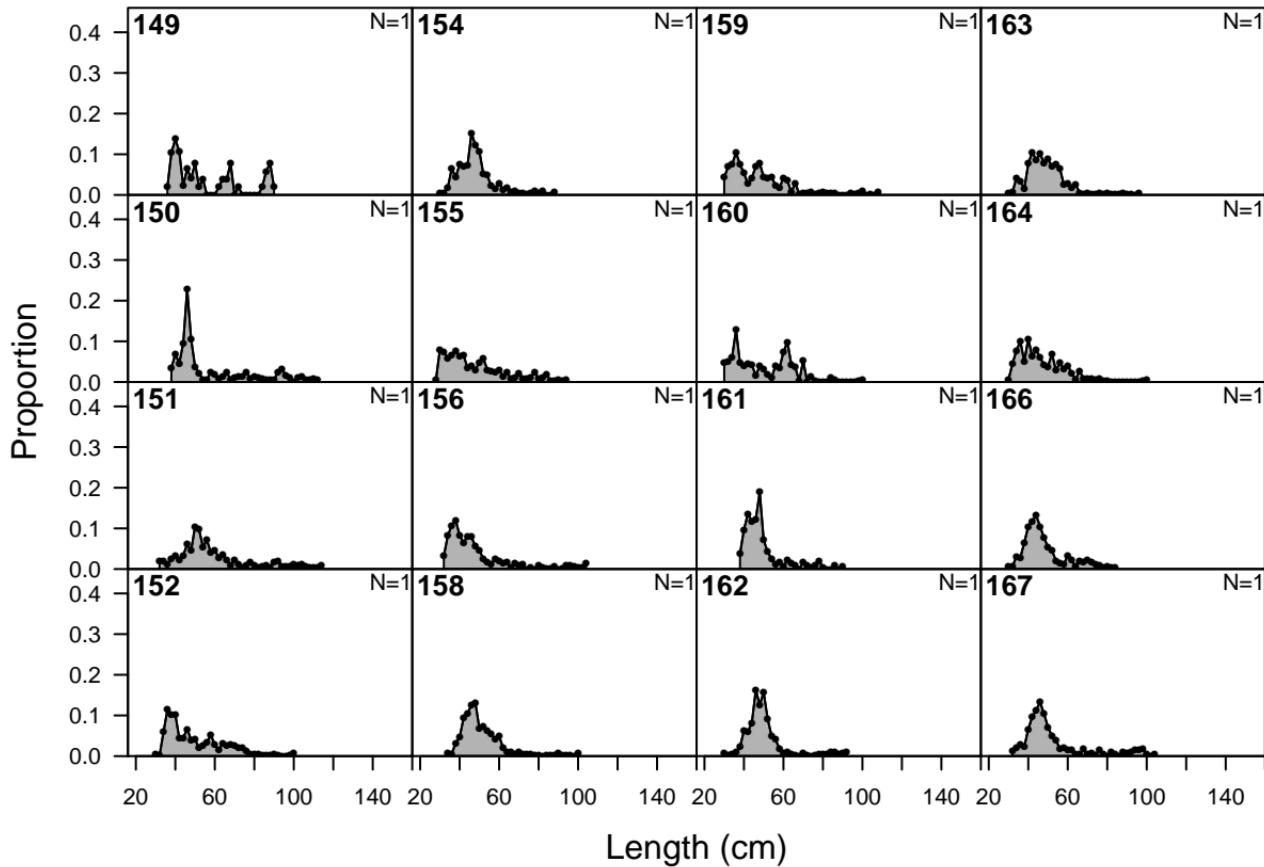
length comp data, whole catch, F5–OBJ_N



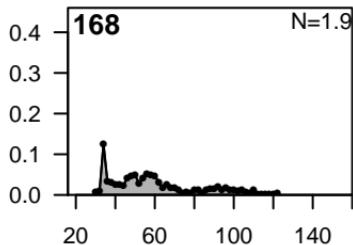
length comp data, whole catch, F5–OBJ_N



length comp data, whole catch, F5–OBJ_N

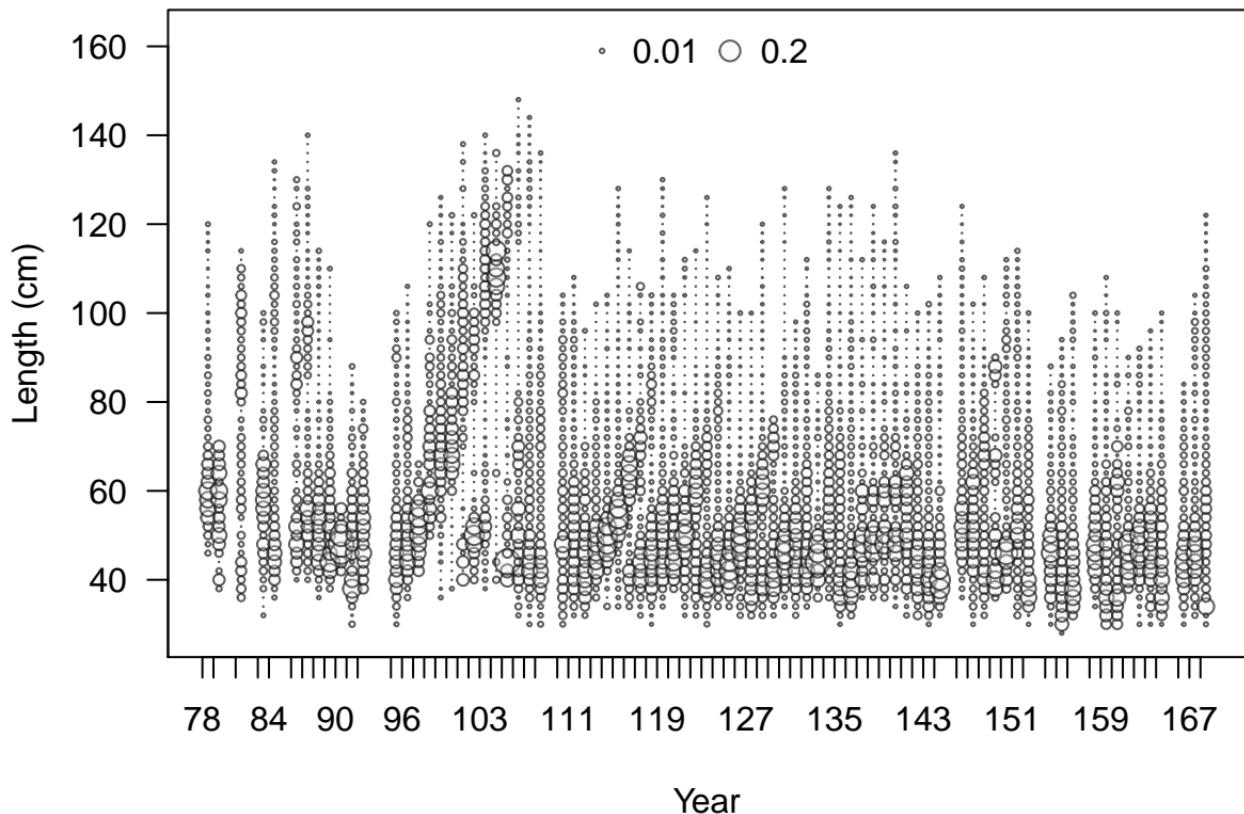


length comp data, whole catch, F5–OBJ_N

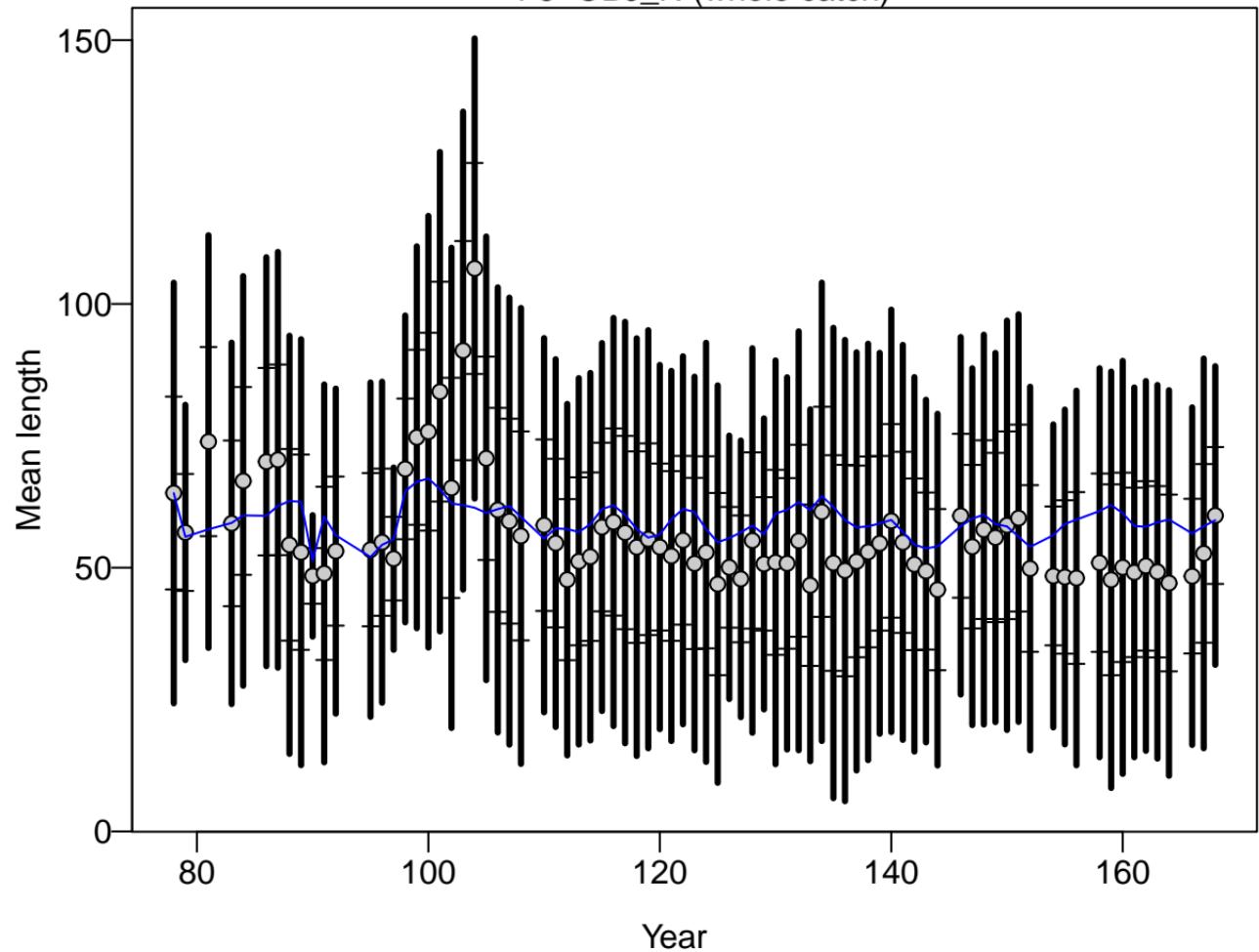


Length (cm)

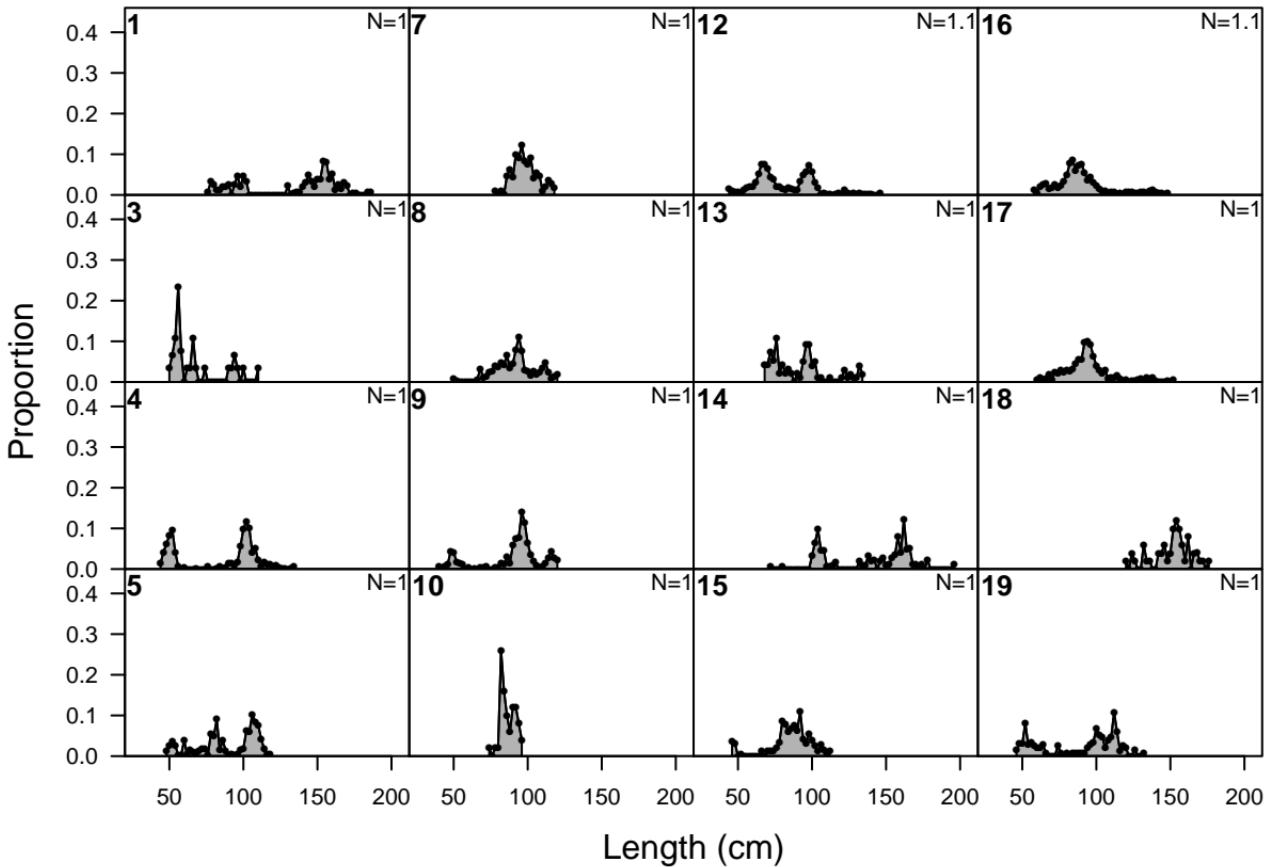
length comp data, whole catch, F5–OBJ_N (max=0.3)



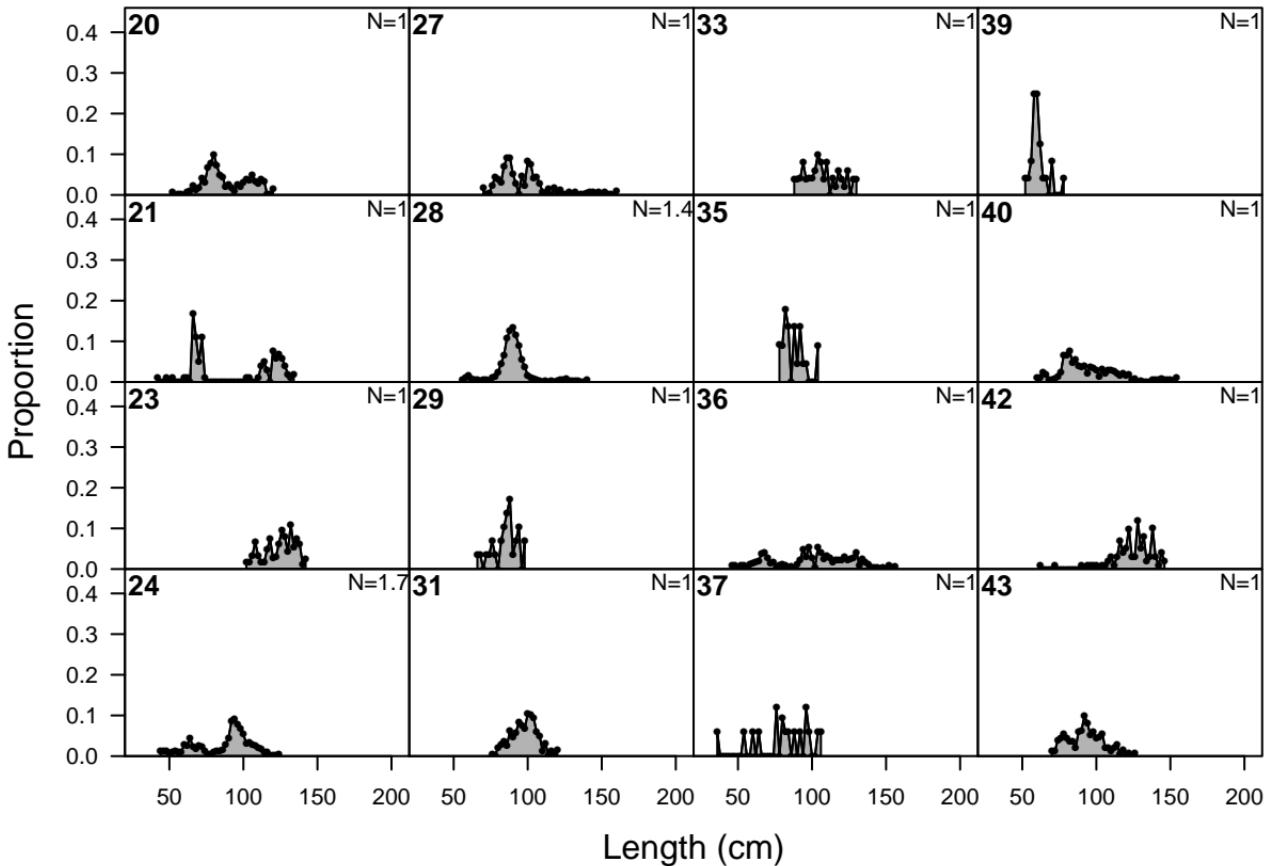
F5-OBJ_N (whole catch)



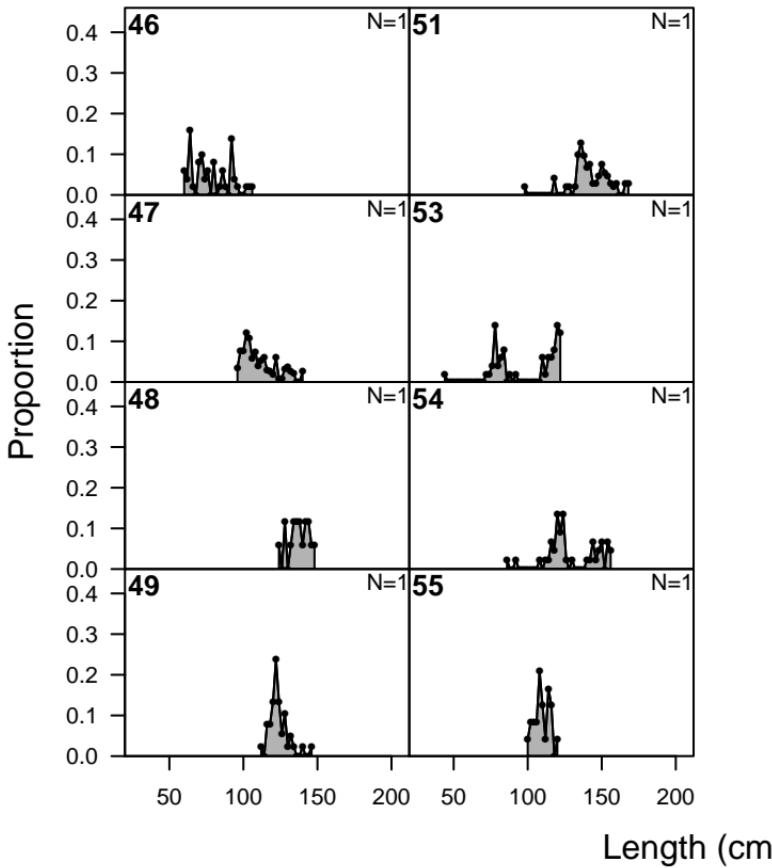
length comp data, whole catch, F6–NOA–DEL_early



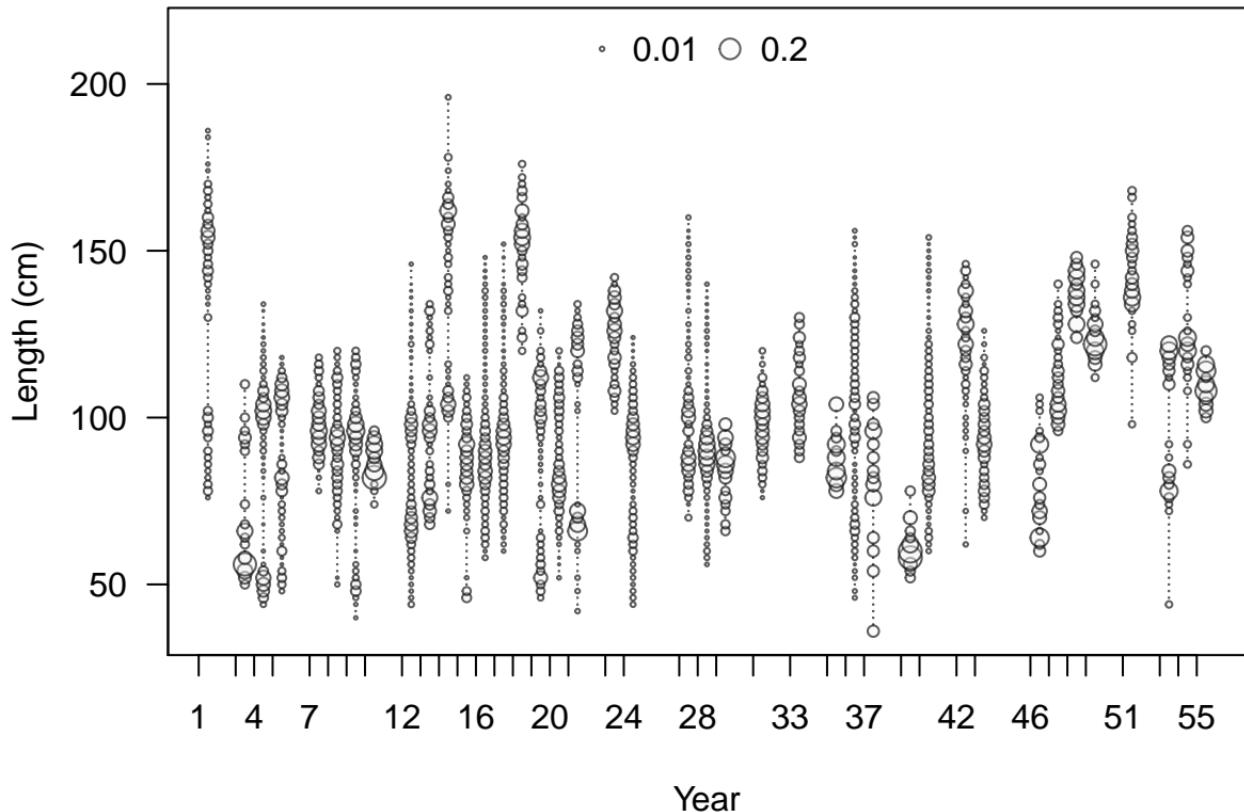
length comp data, whole catch, F6–NOA–DEL_early



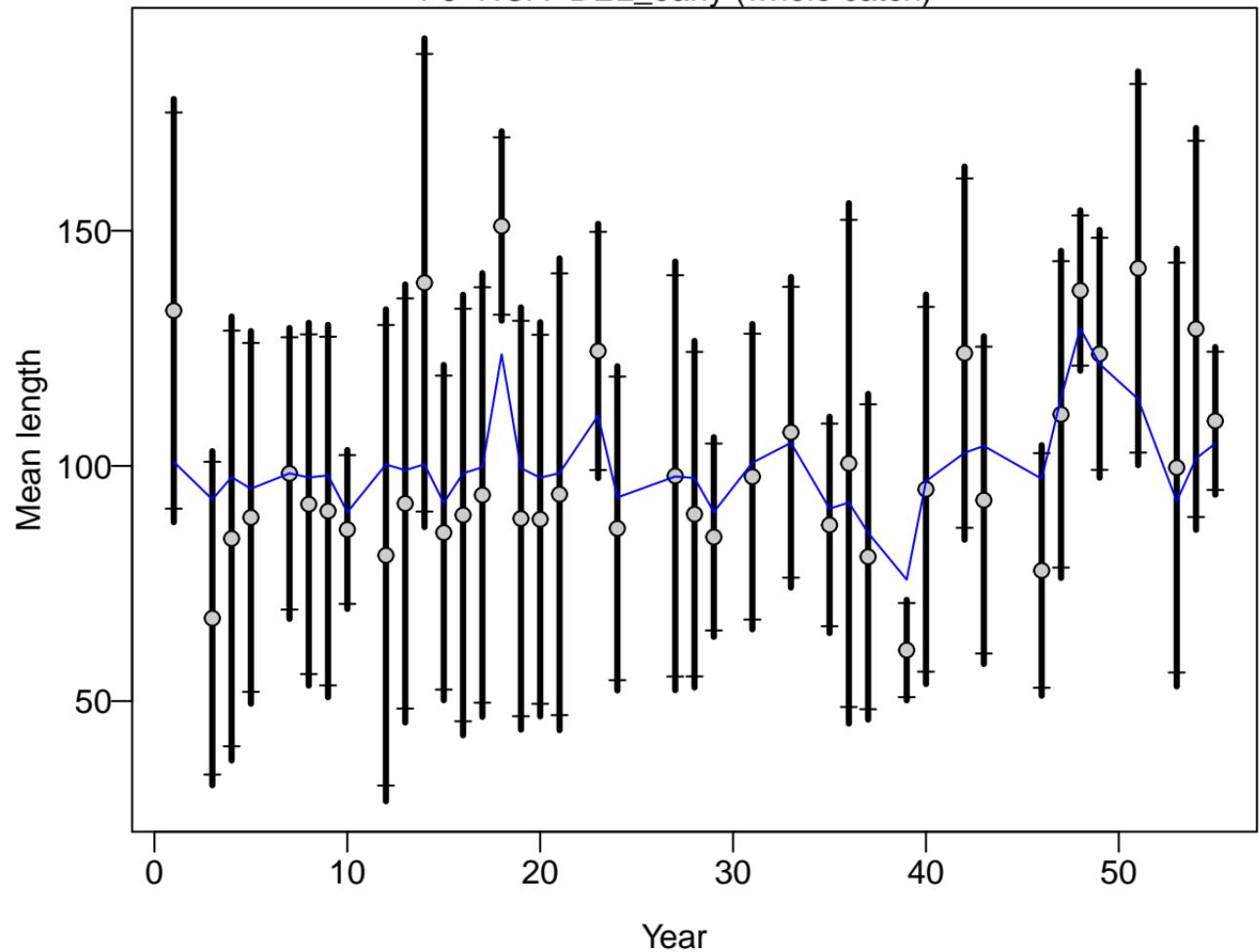
length comp data, whole catch, F6–NOA–DEL_early



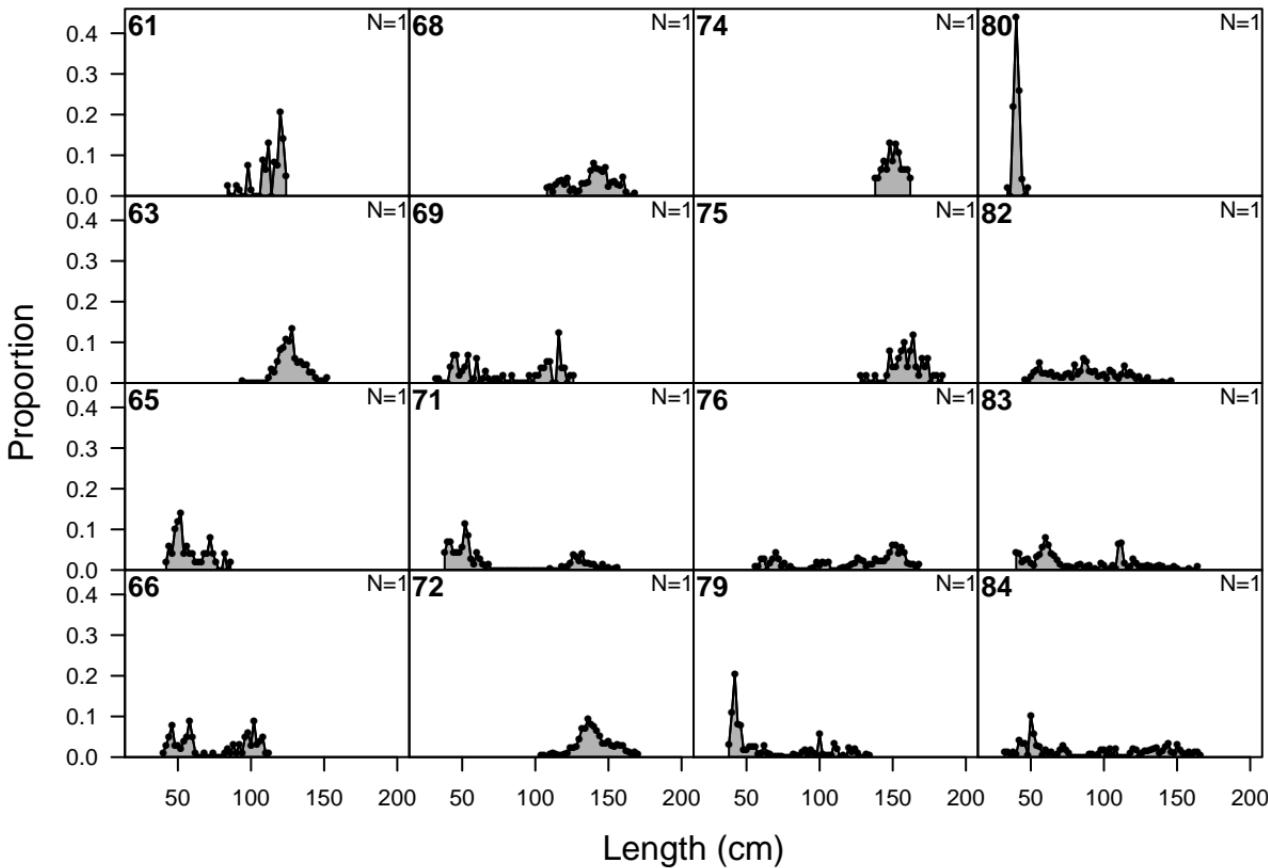
length comp data, whole catch, F6–NOA–DEL_early (max=0.26)



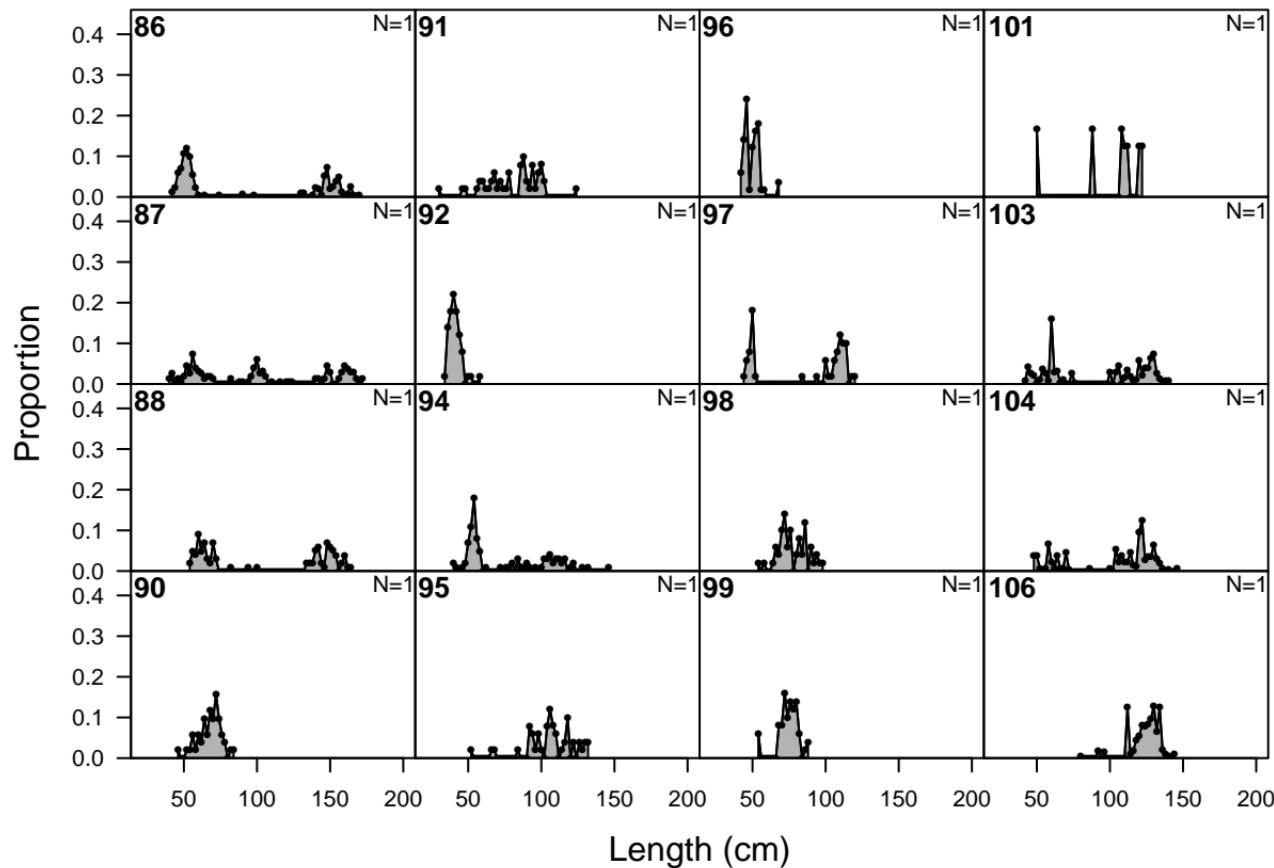
F6-NOA-DEL_early (whole catch)



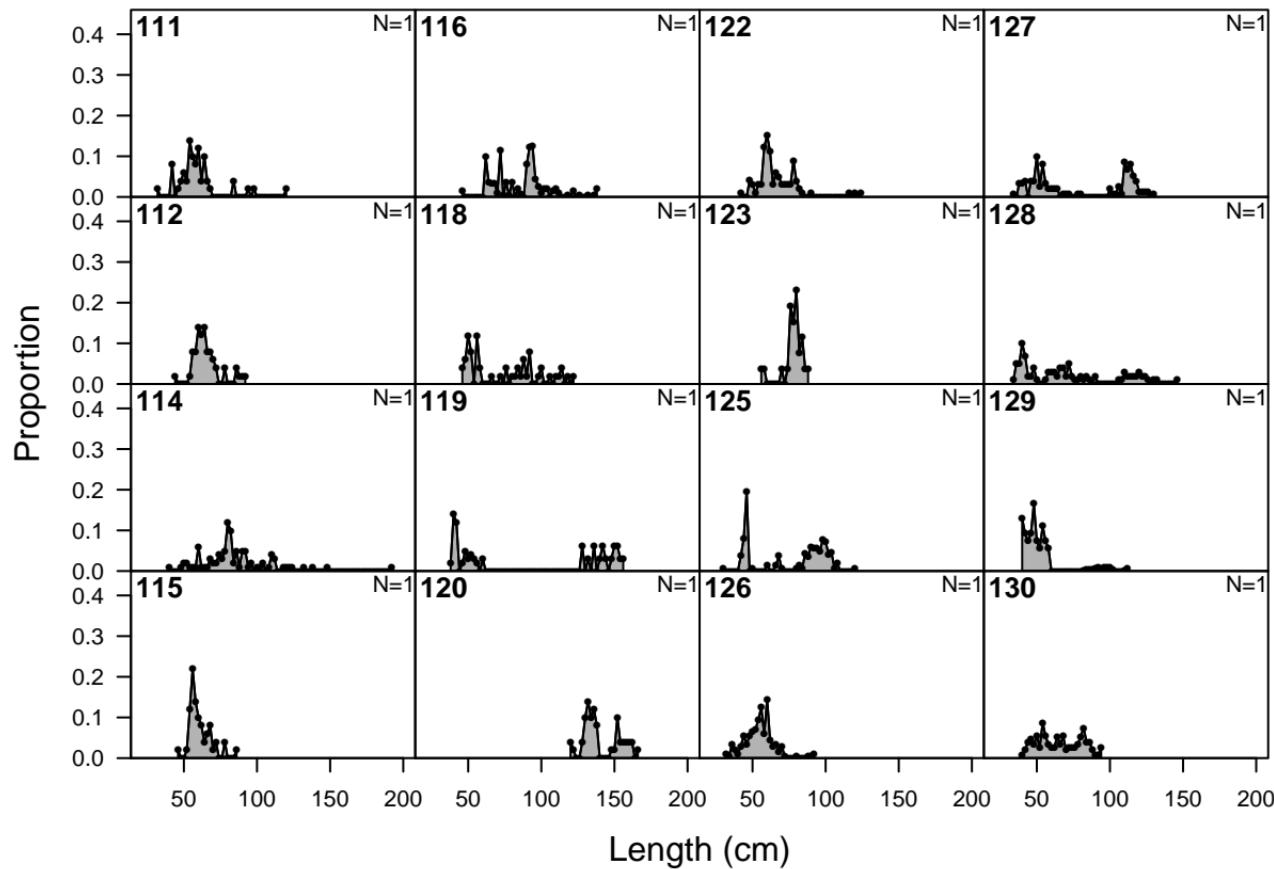
length comp data, whole catch, F7–NOA–DEL_ late



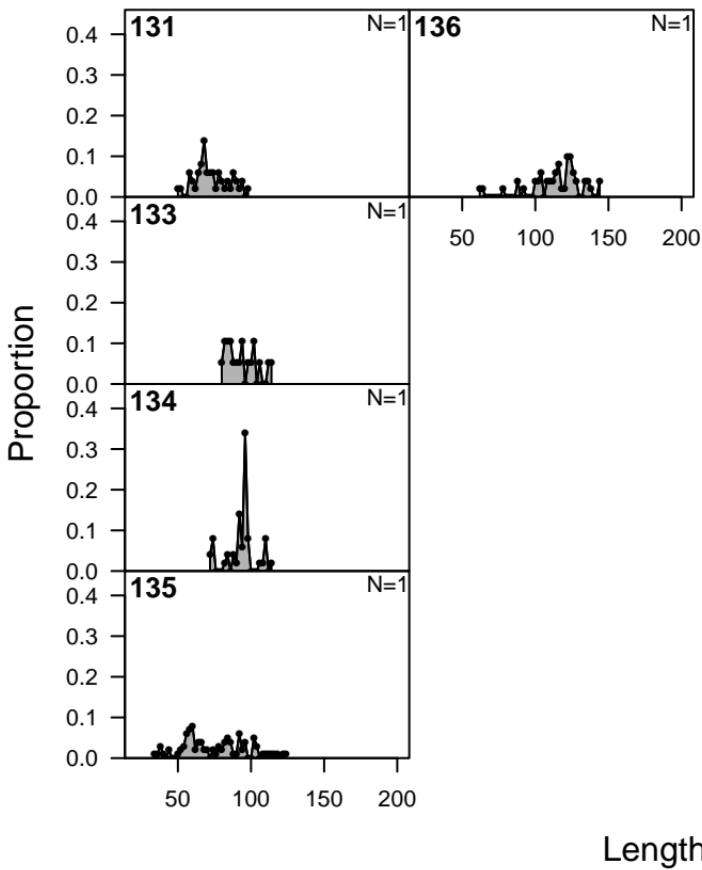
length comp data, whole catch, F7–NOA–DEL_late



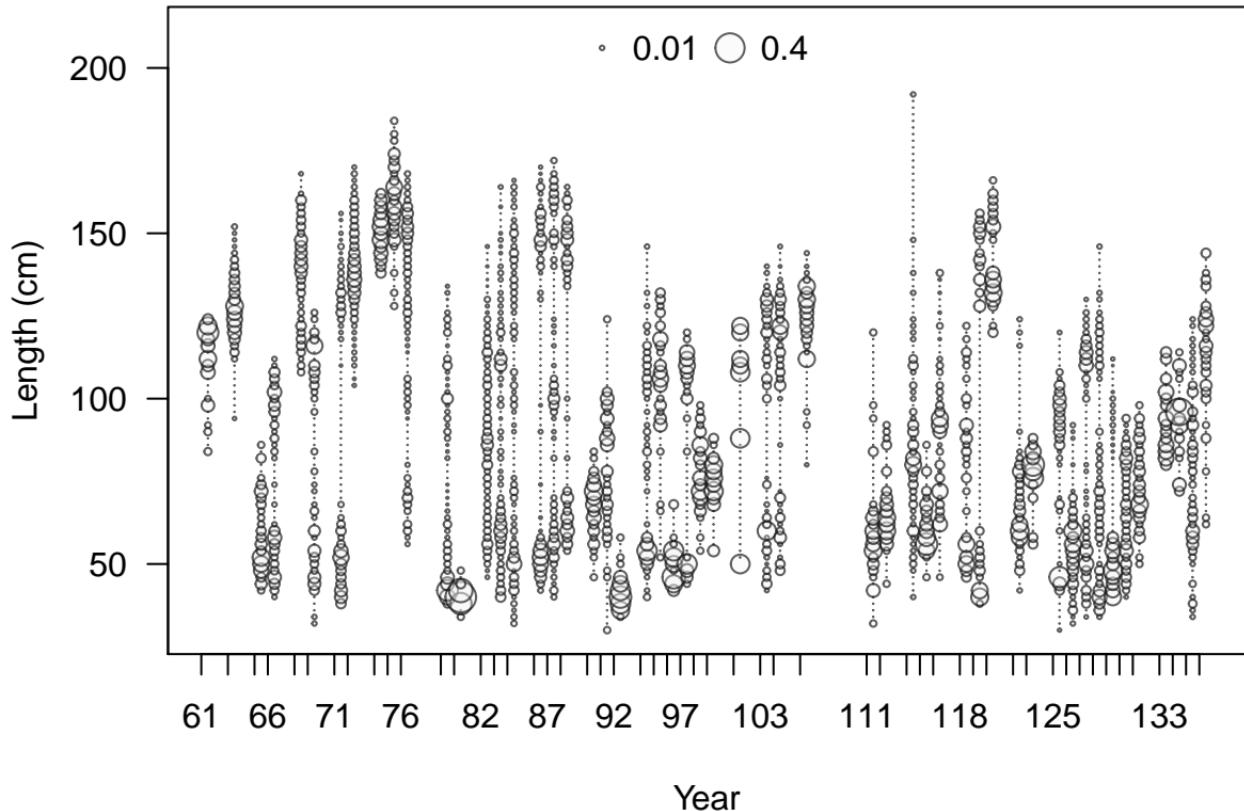
length comp data, whole catch, F7–NOA–DEL_late



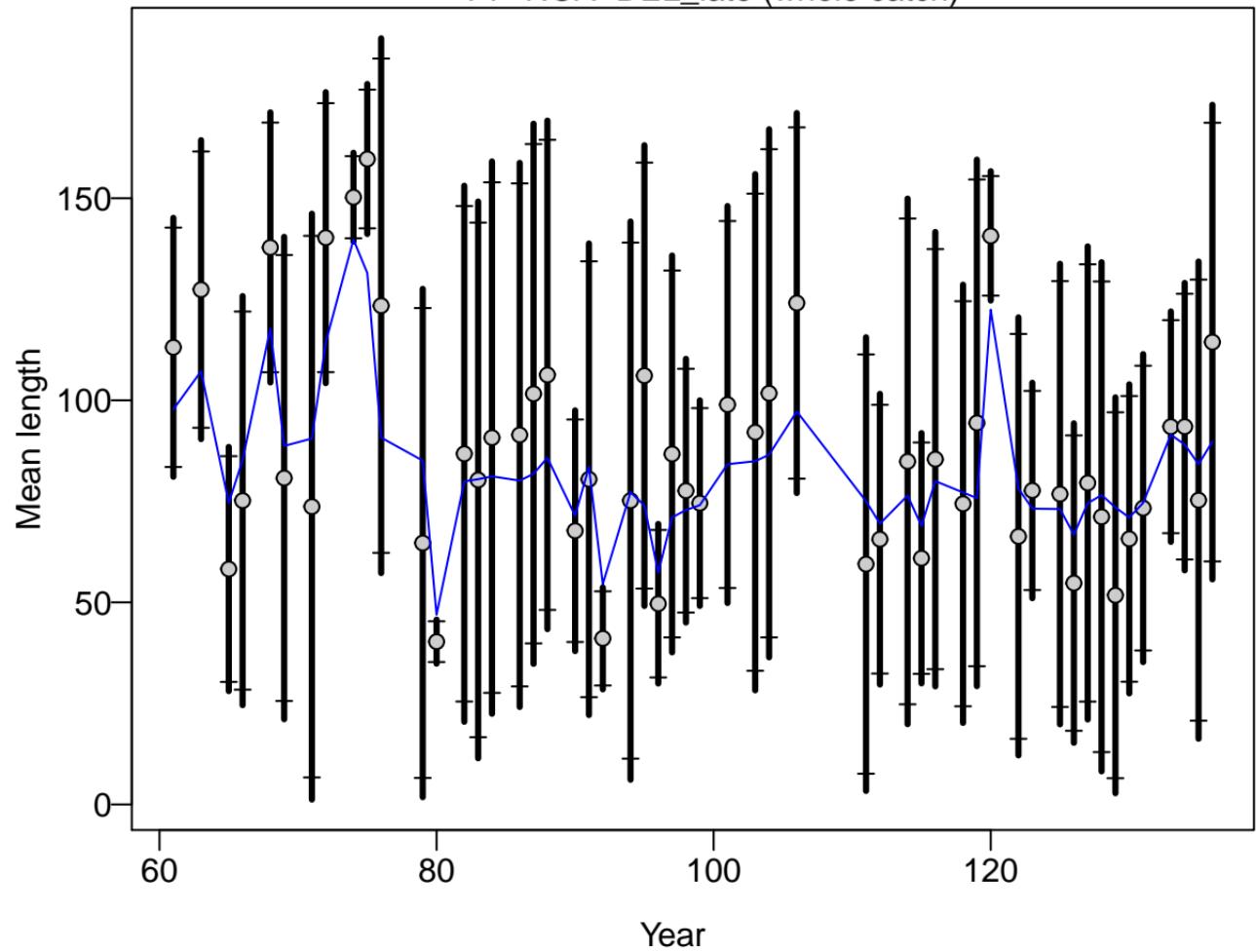
length comp data, whole catch, F7–NOA–DEL_ late



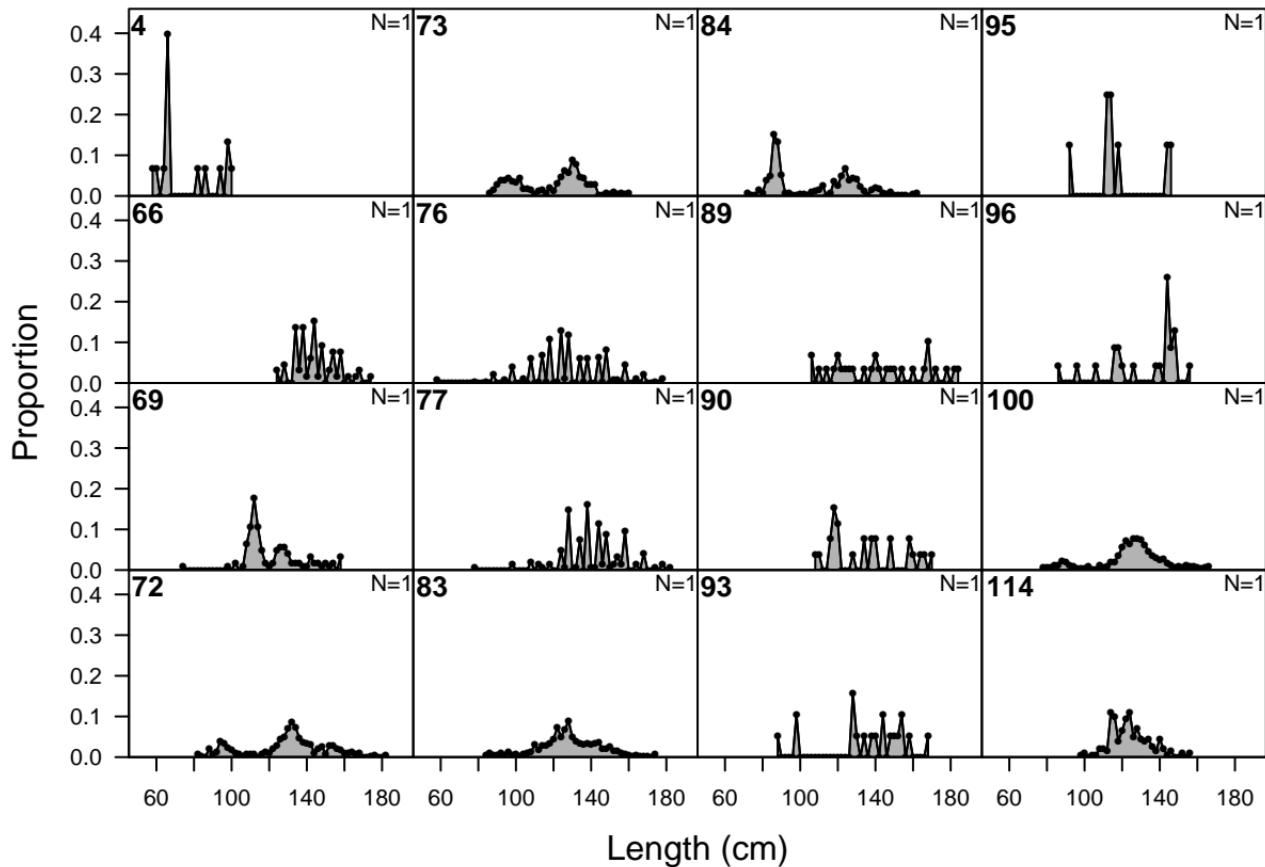
length comp data, whole catch, F7–NOA–DEL_late (max=0.44)



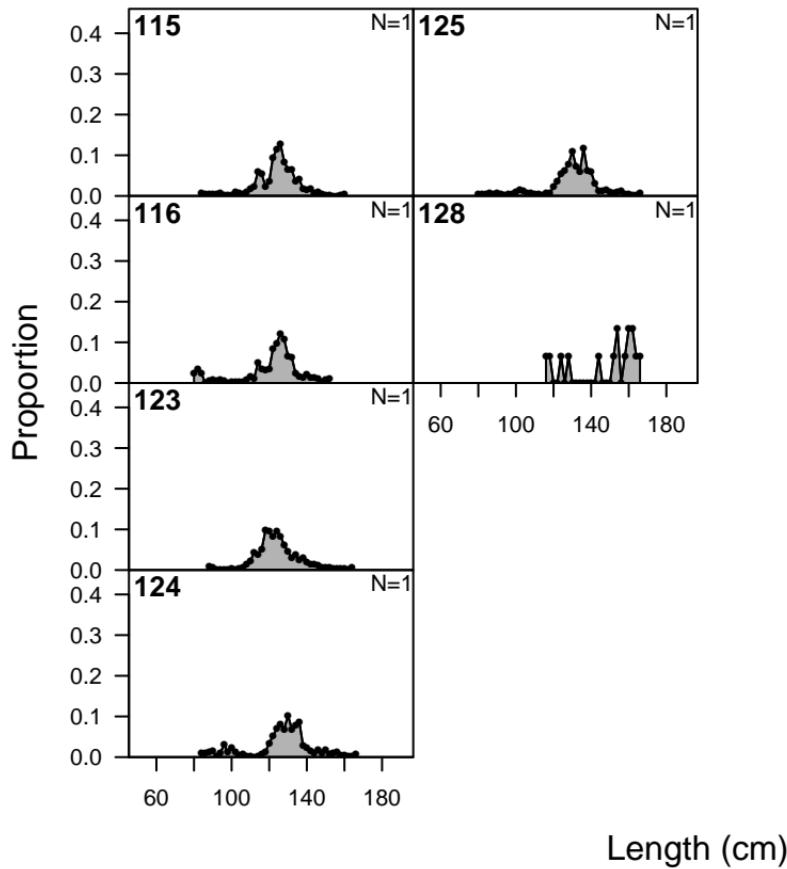
F7-NOA-DEL_late (whole catch)



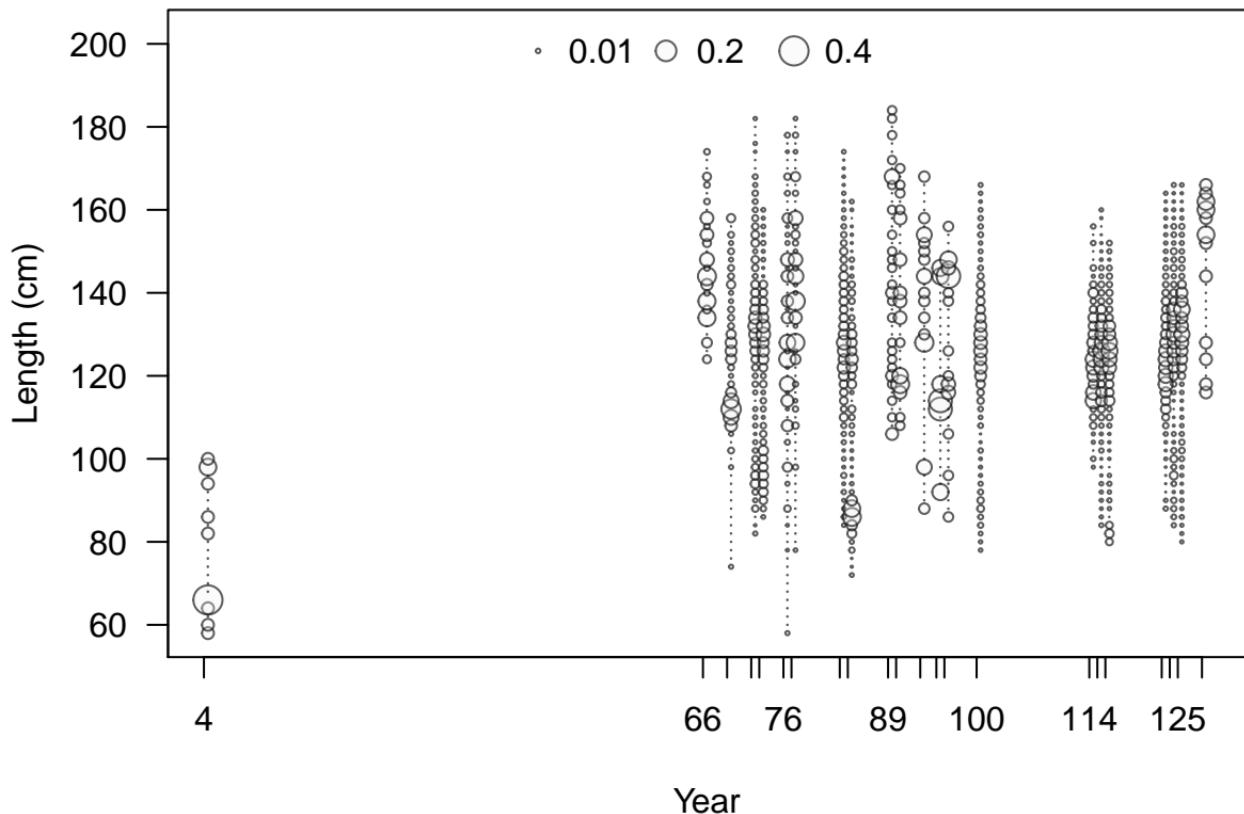
length comp data, whole catch, F12-LL_N_num



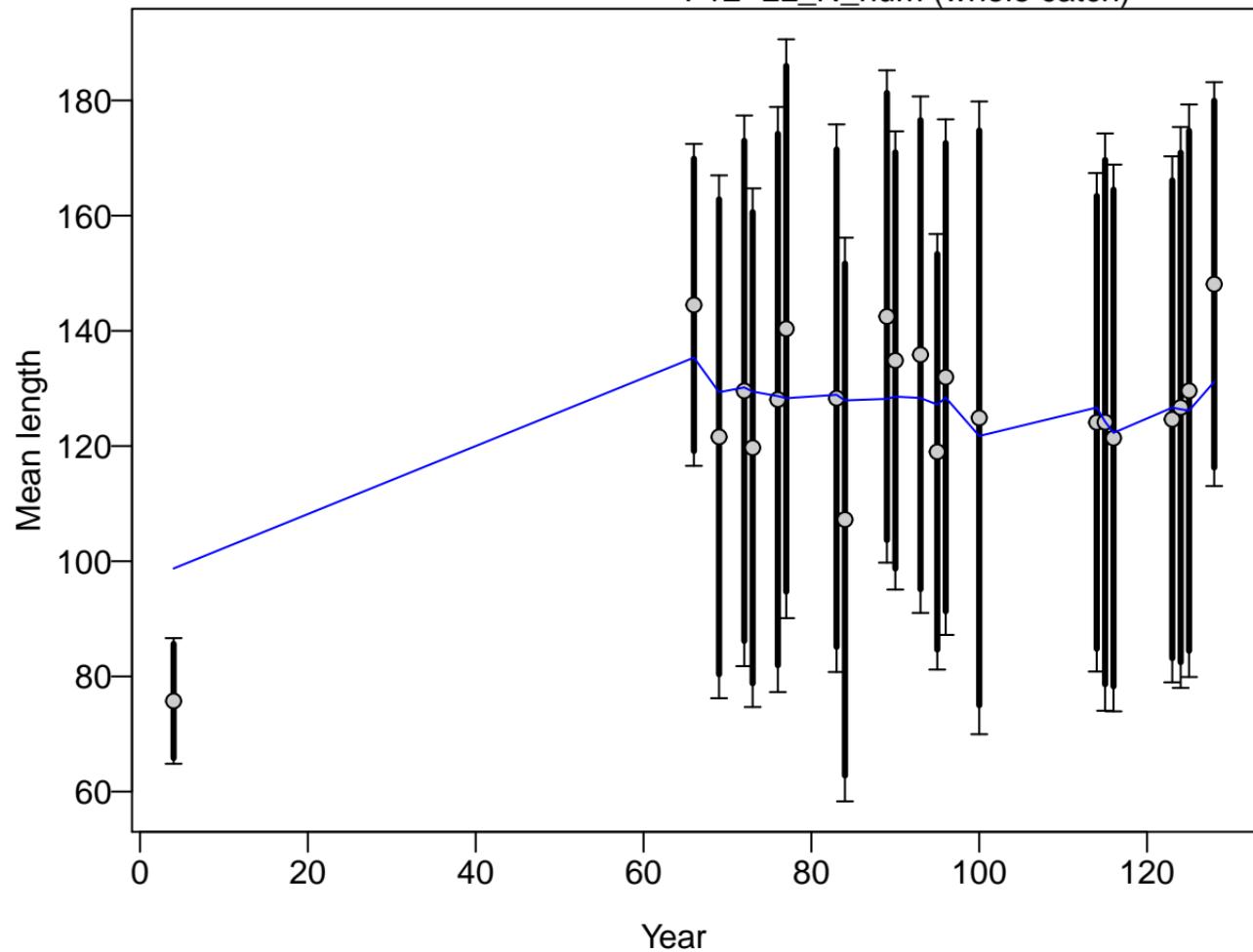
length comp data, whole catch, F12-LL_N_num



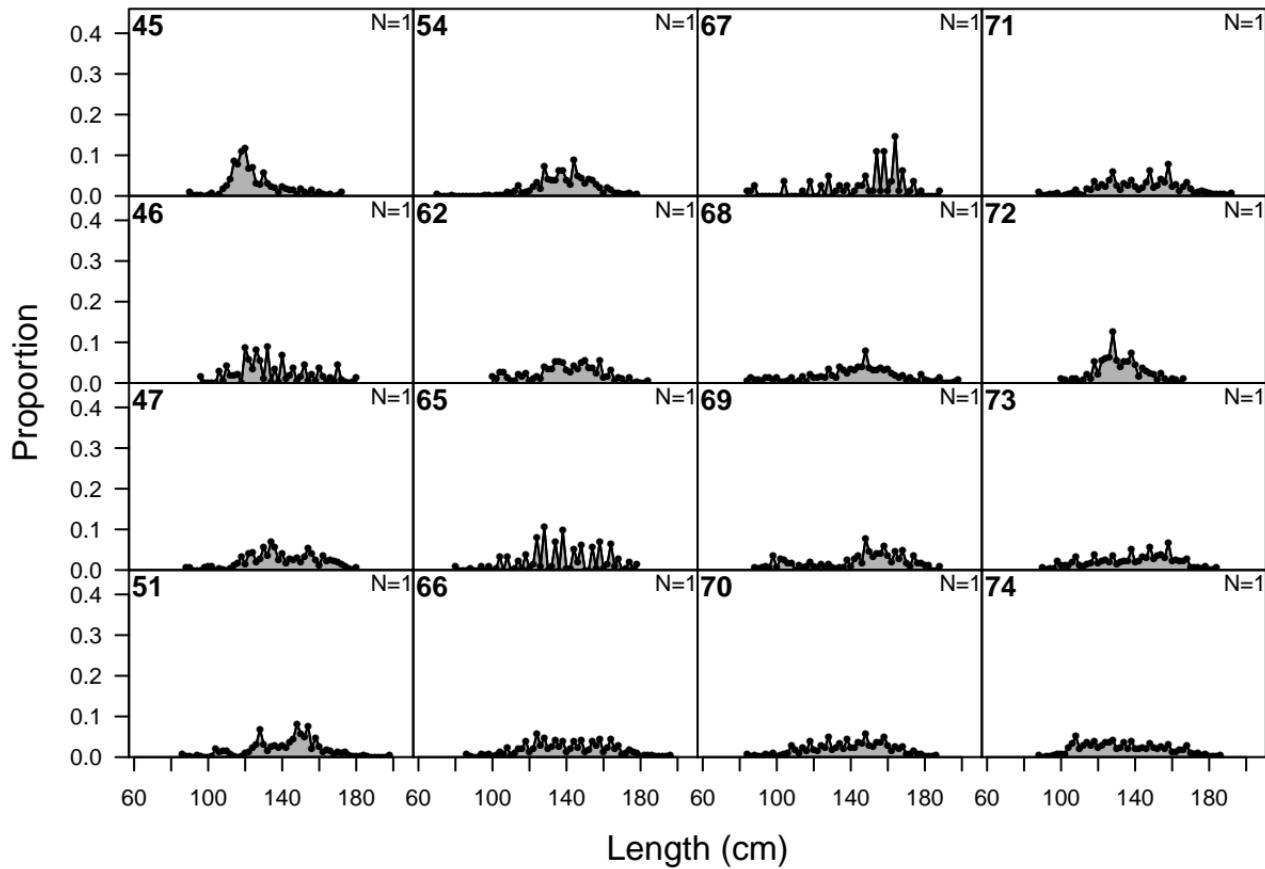
length comp data, whole catch, F12-LL_N_num (max=0.4)



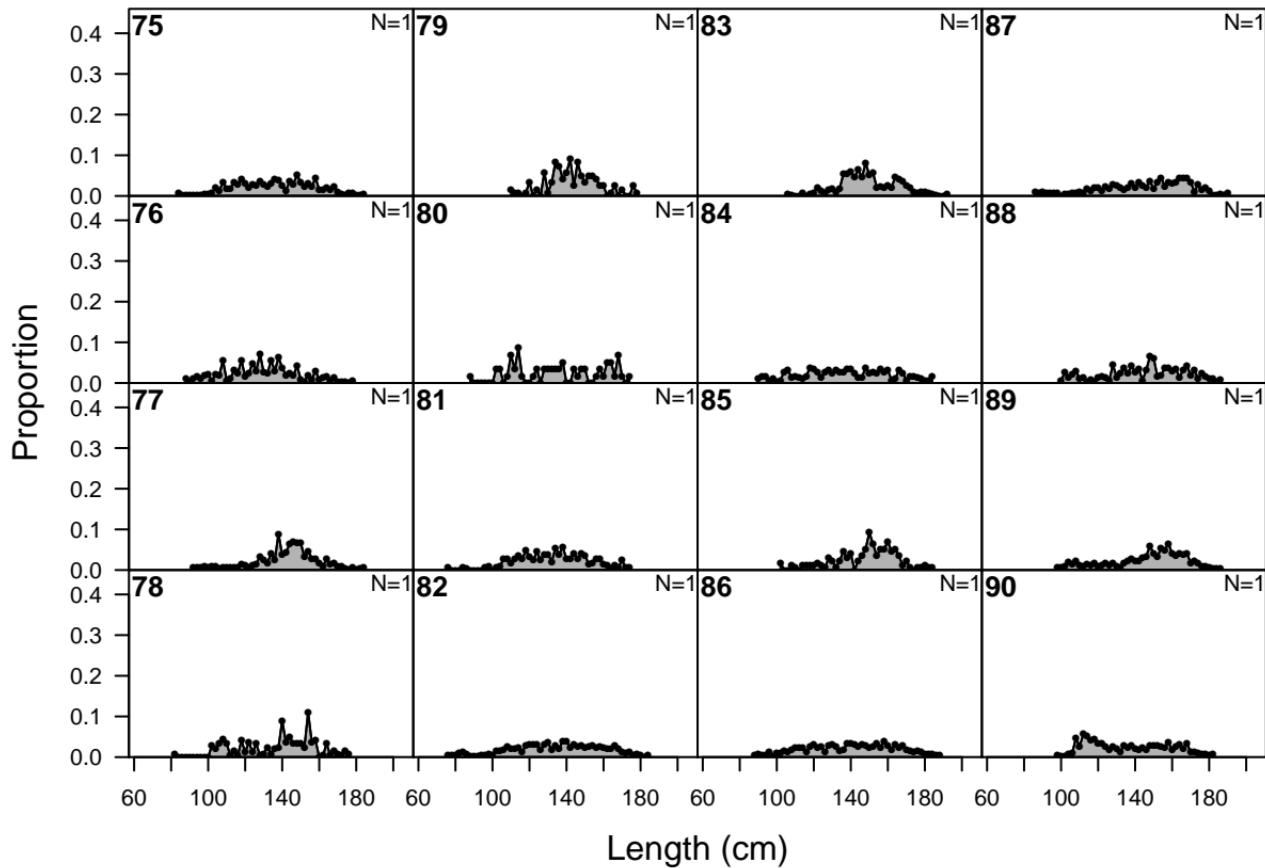
F12-LL_N_num (whole catch)



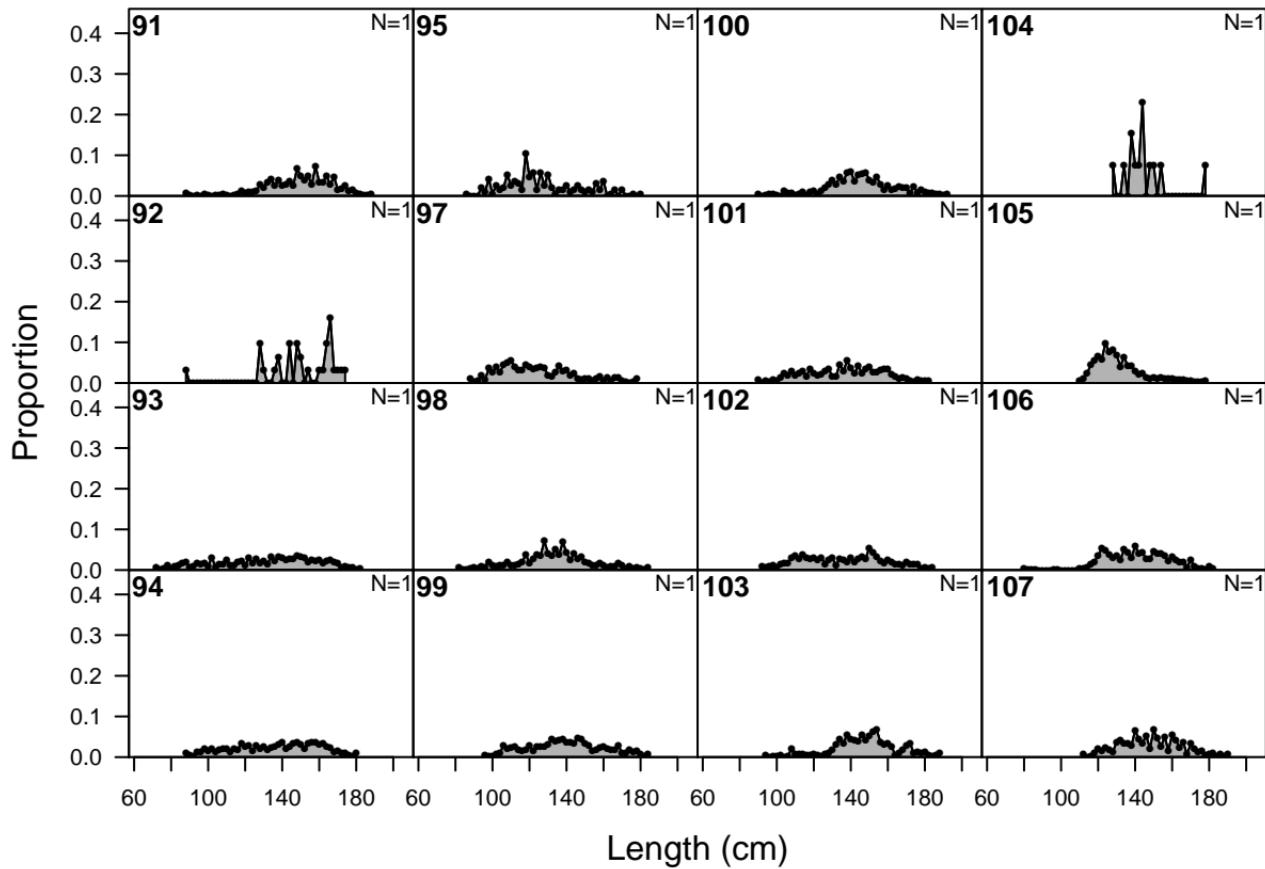
length comp data, whole catch, F13-LL_C_num



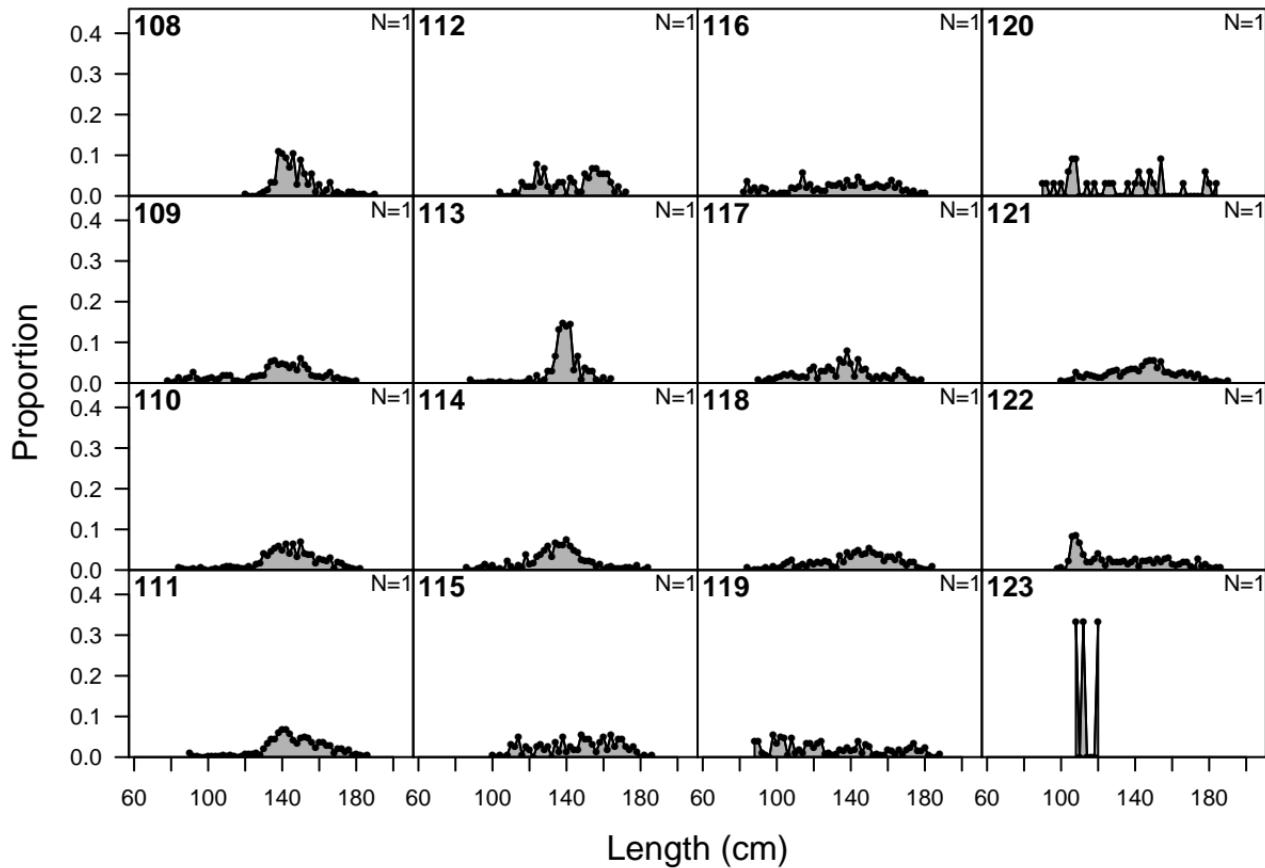
length comp data, whole catch, F13-LL_C_num



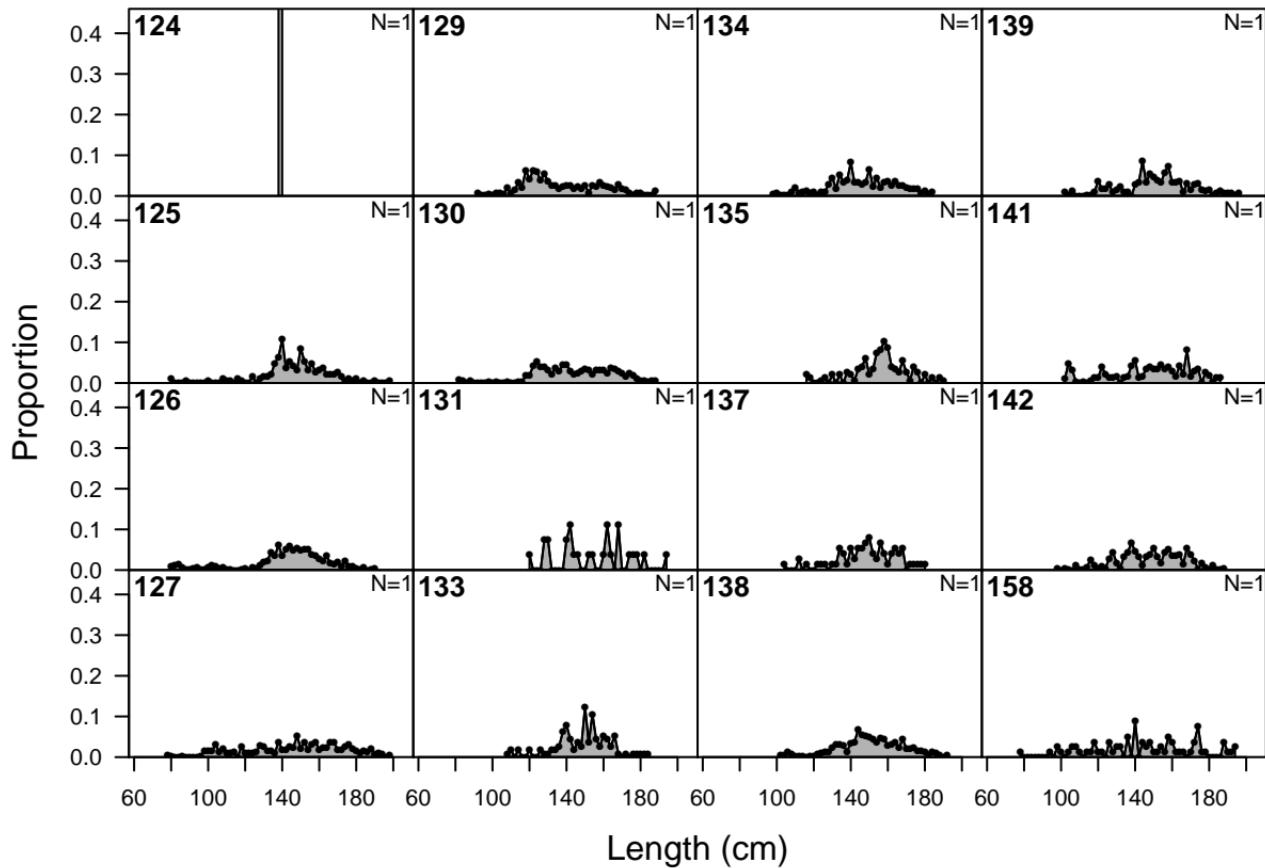
length comp data, whole catch, F13-LL_C_num



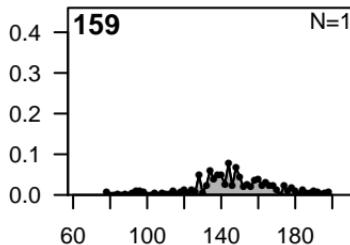
length comp data, whole catch, F13-LL_C_num



length comp data, whole catch, F13-LL_C_num

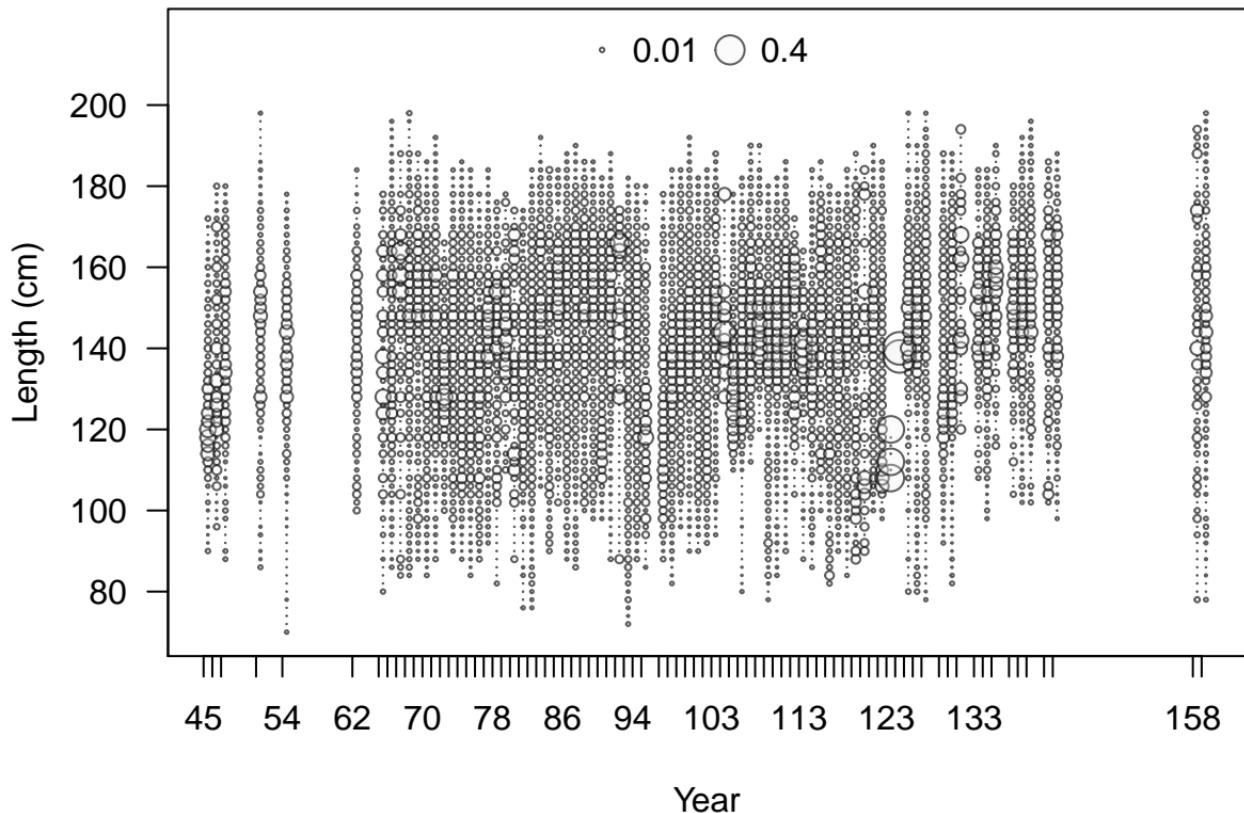


length comp data, whole catch, F13-LL_C_num

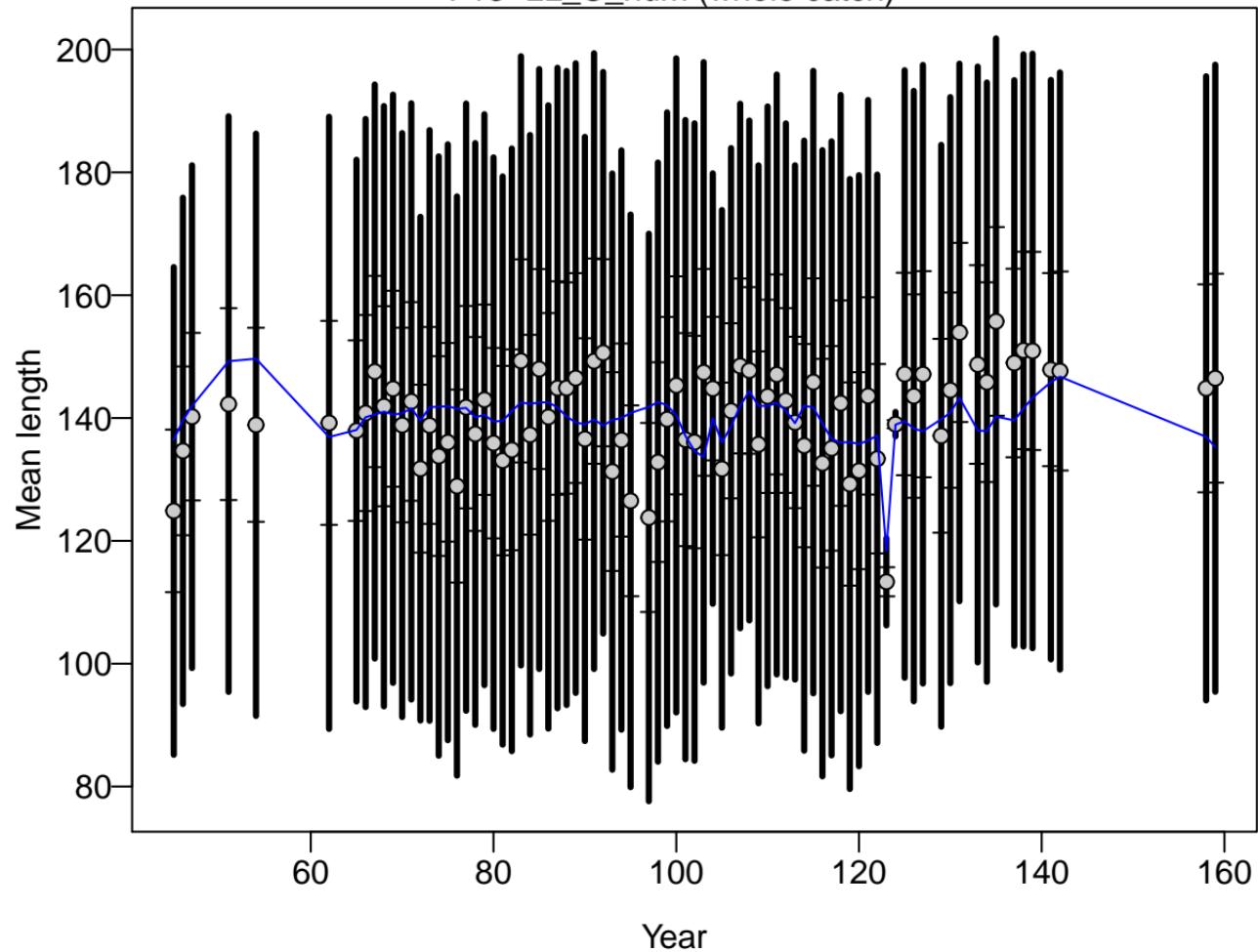


Length (cm)

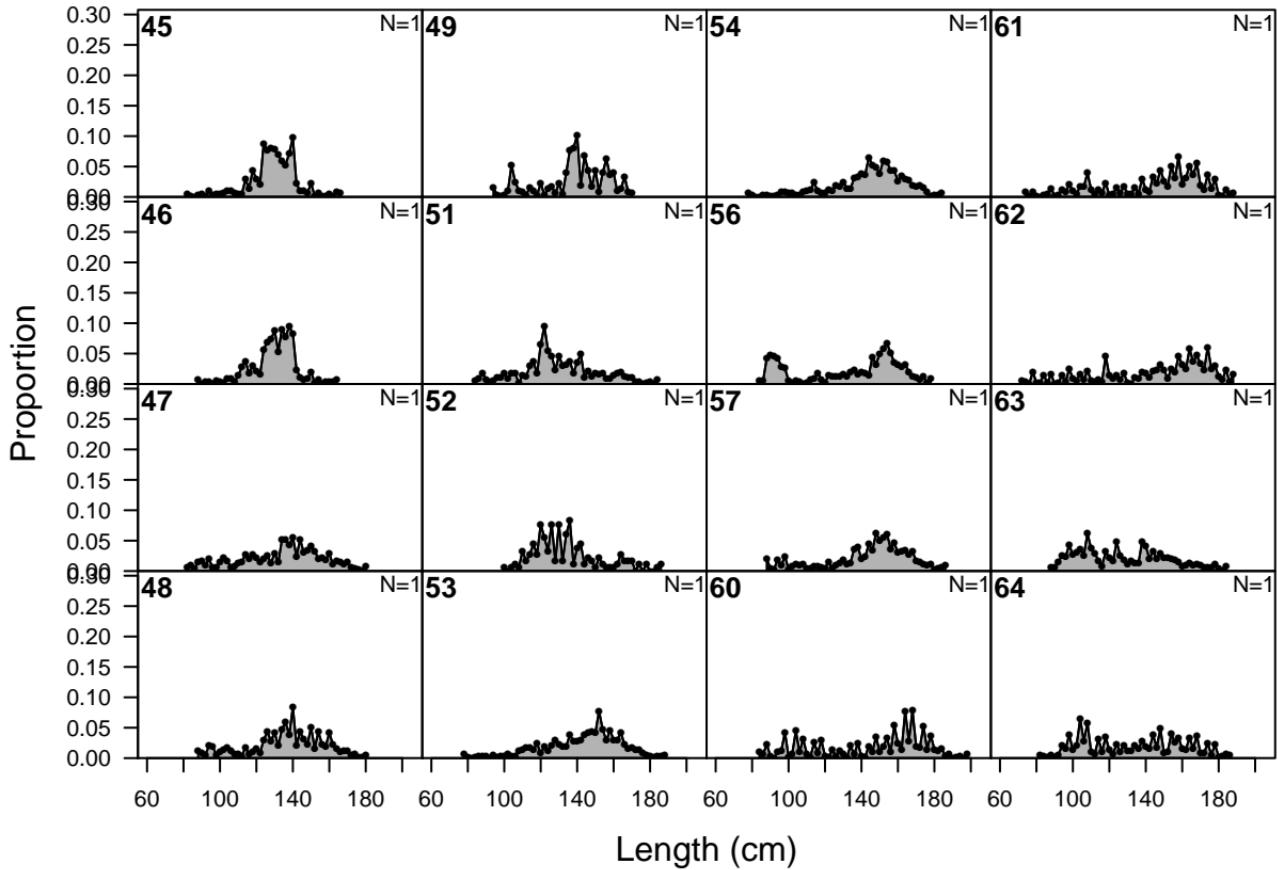
length comp data, whole catch, F13-LL_C_num (max=0.5)



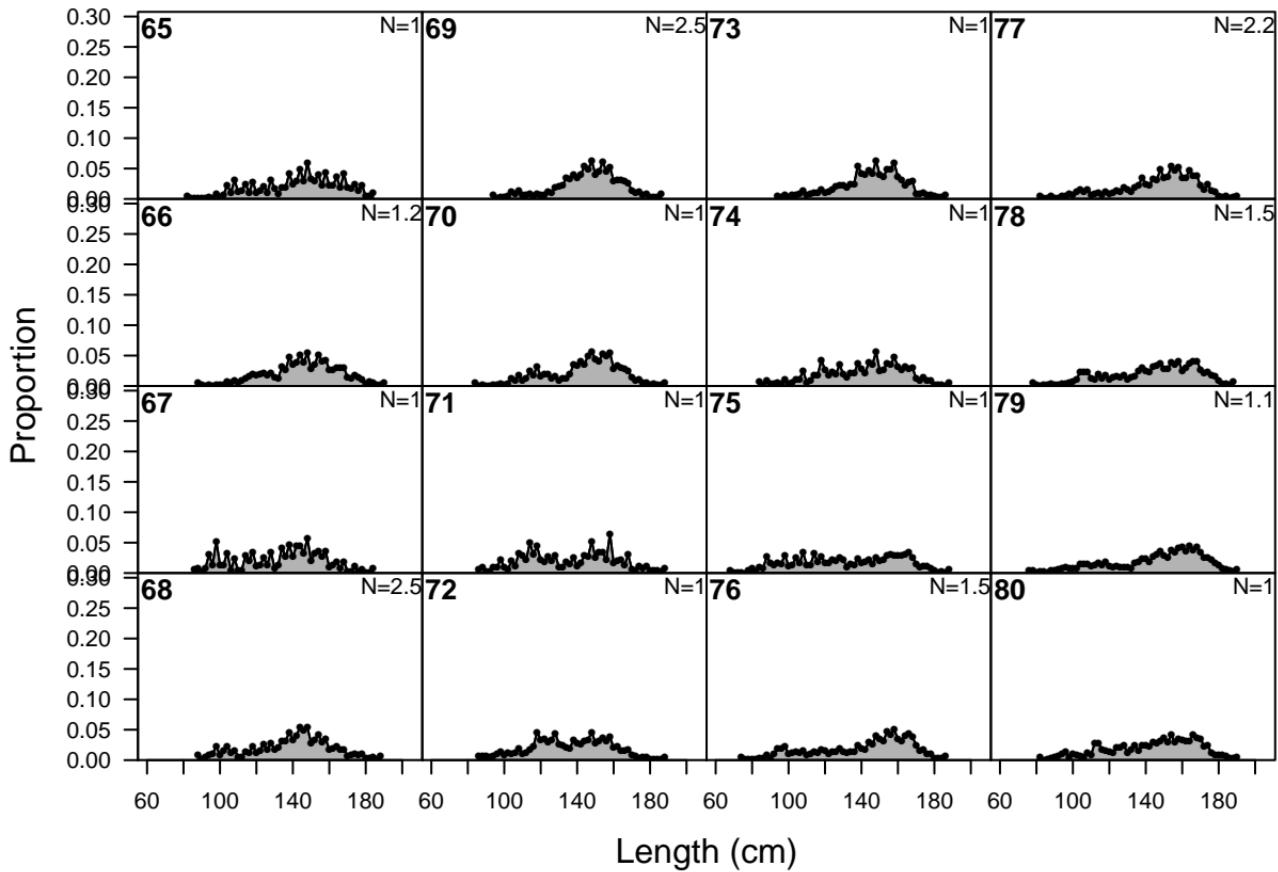
F13-LL_C_num (whole catch)



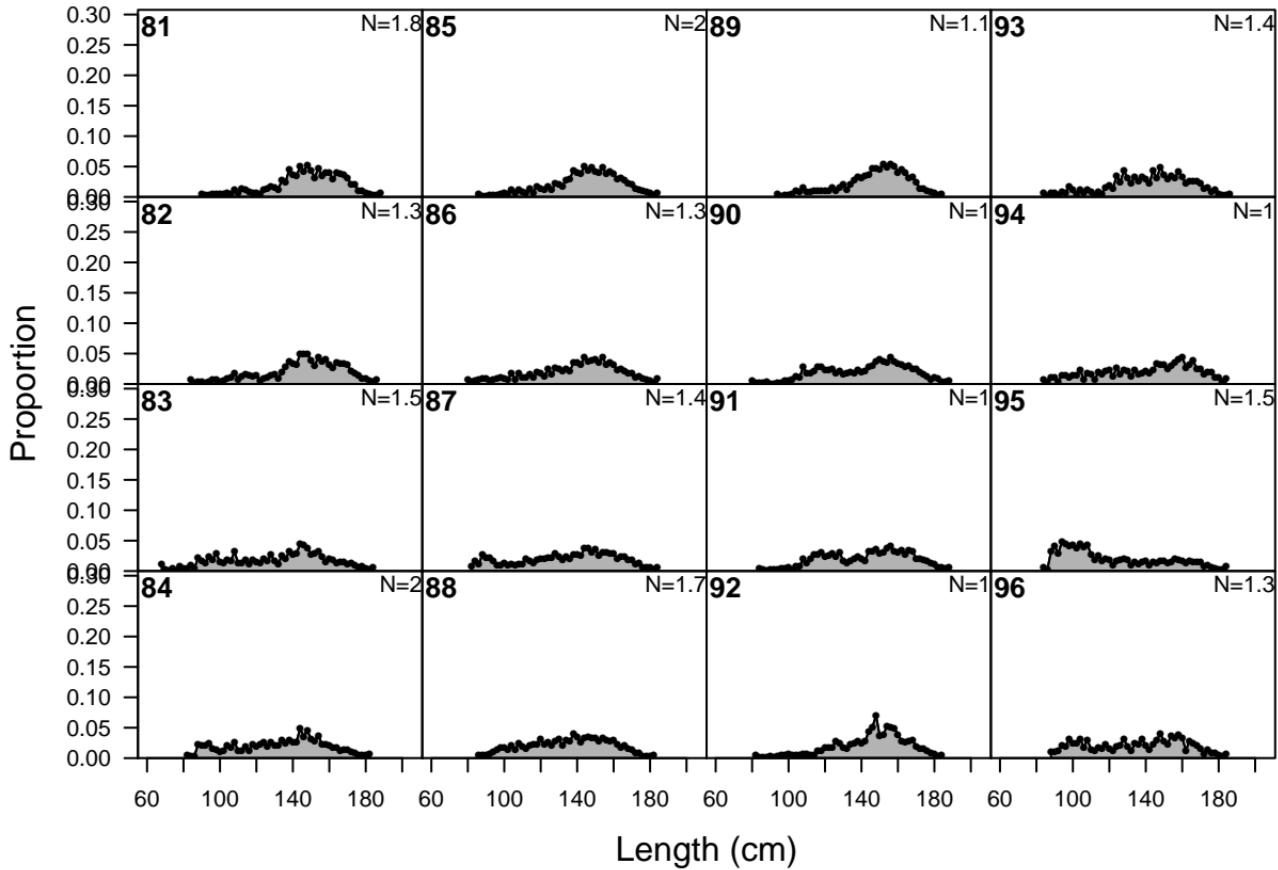
length comp data, whole catch, F14-LL_S_num



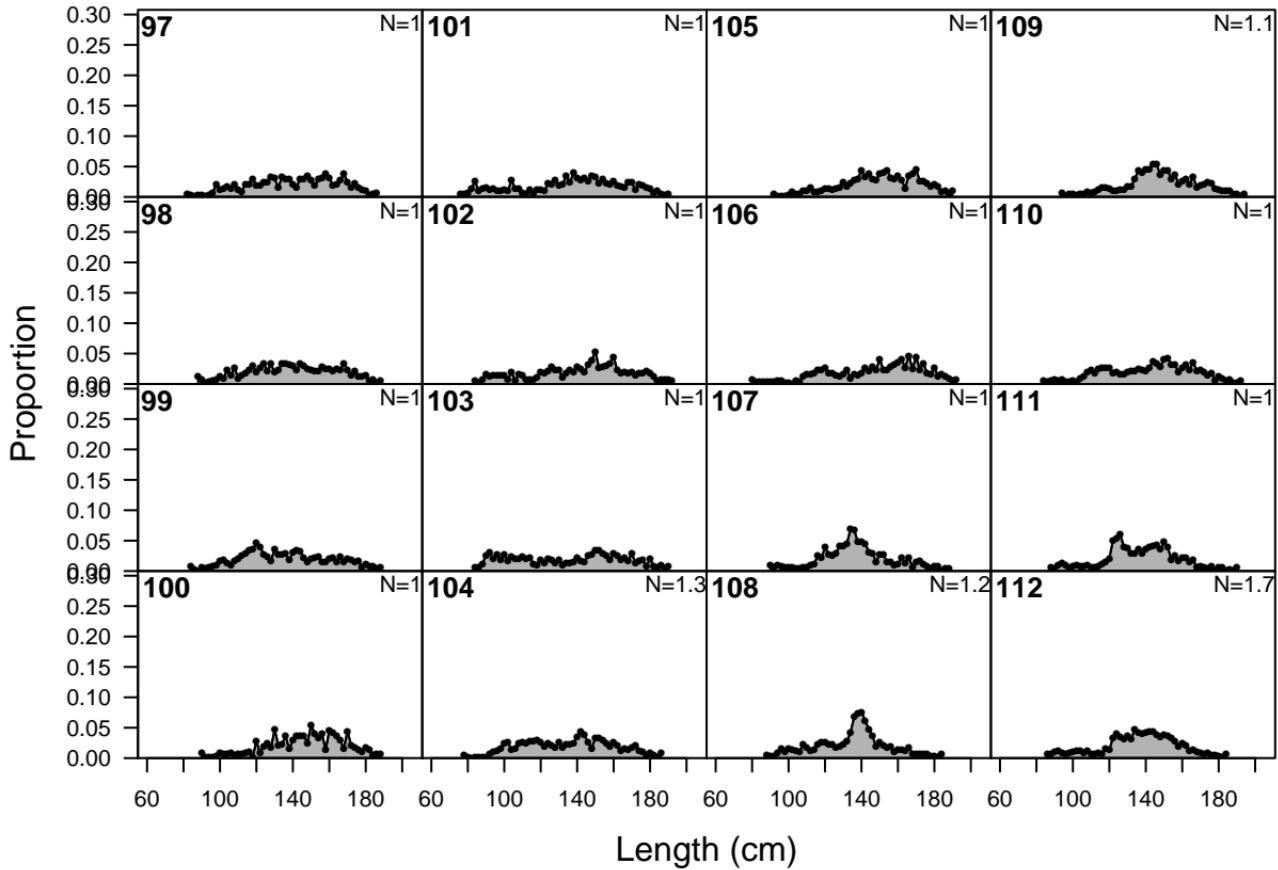
length comp data, whole catch, F14-LL_S_num



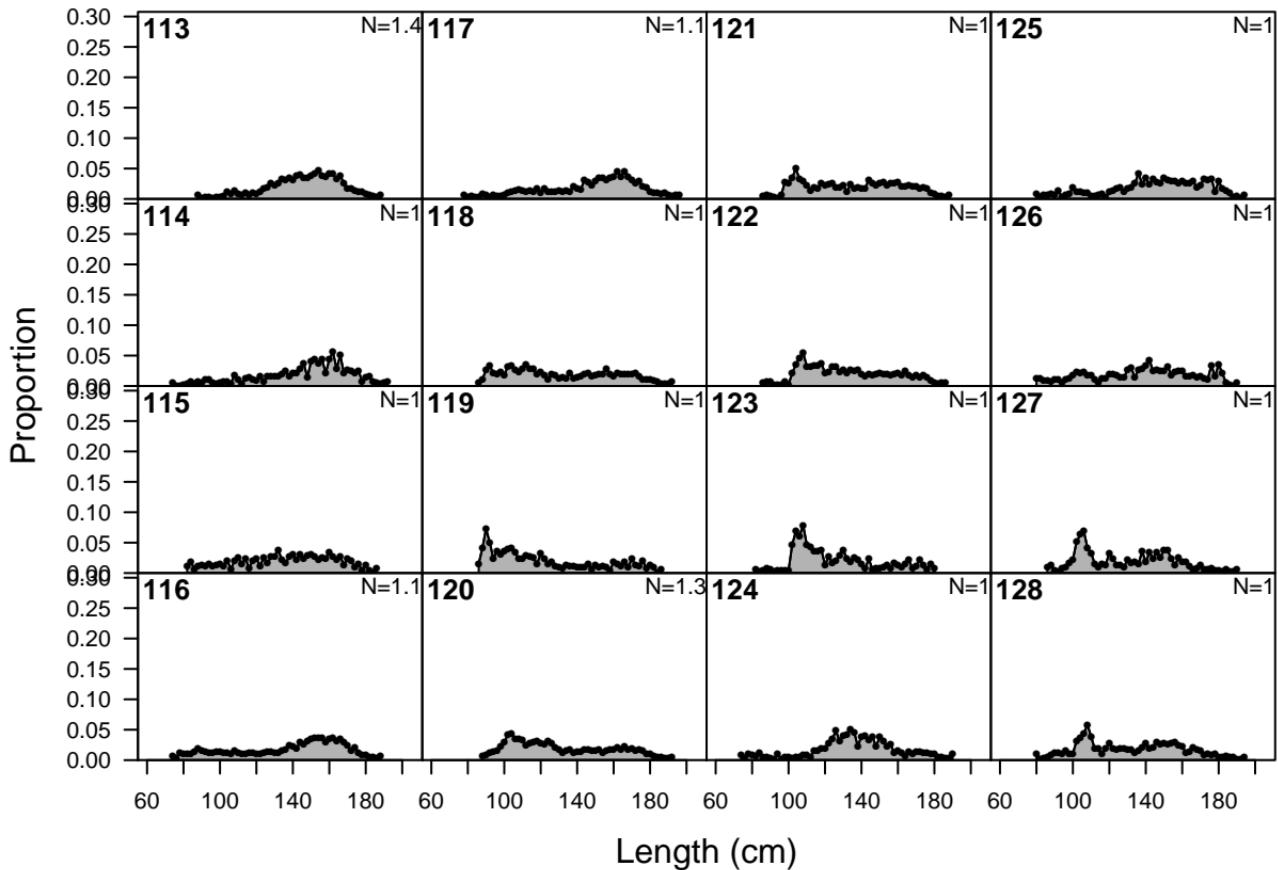
length comp data, whole catch, F14-LL_S_num



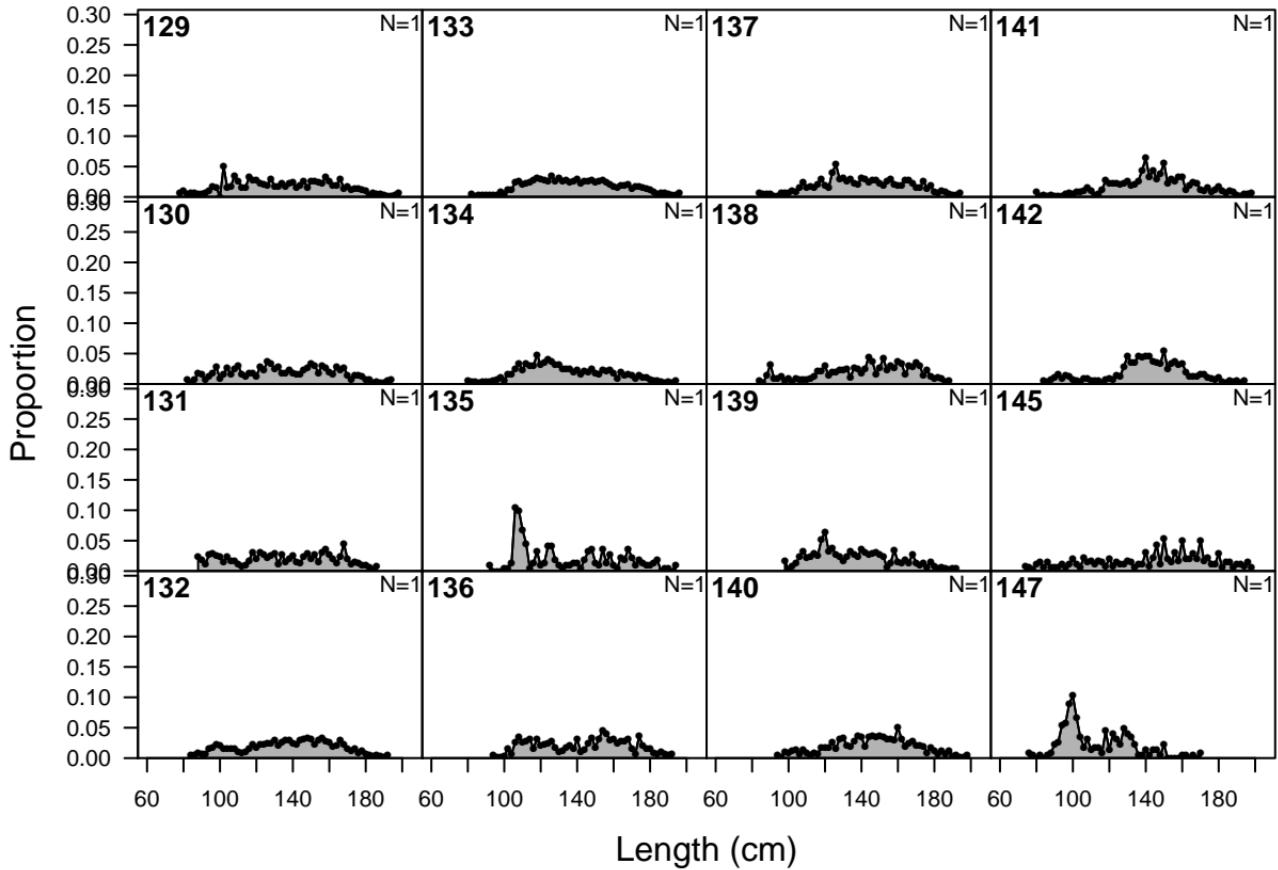
length comp data, whole catch, F14-LL_S_num



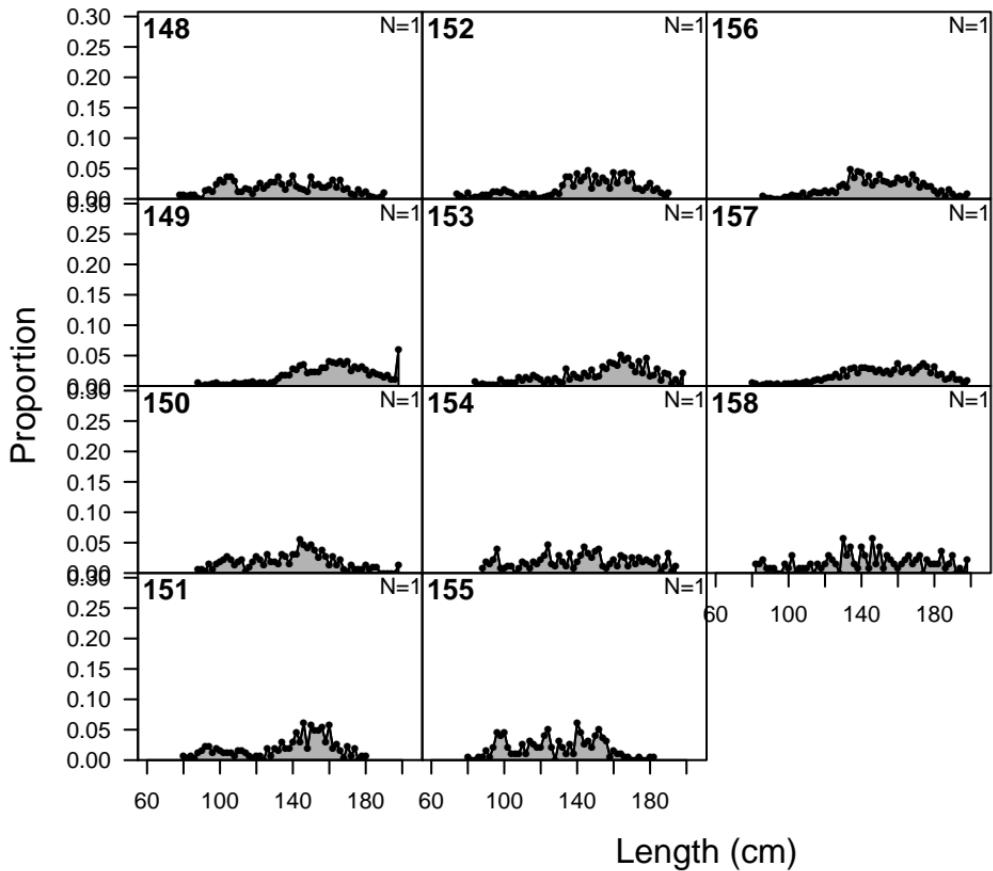
length comp data, whole catch, F14-LL_S_num



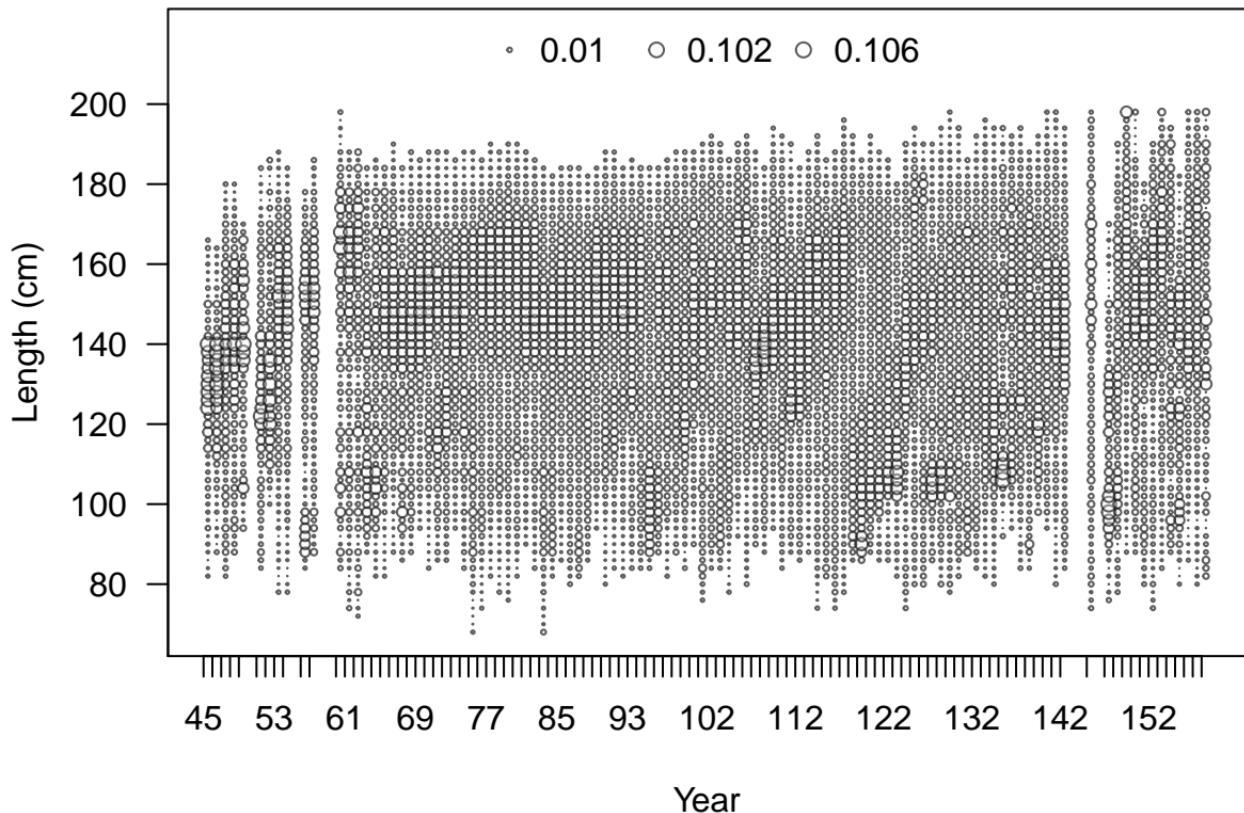
length comp data, whole catch, F14-LL_S_num



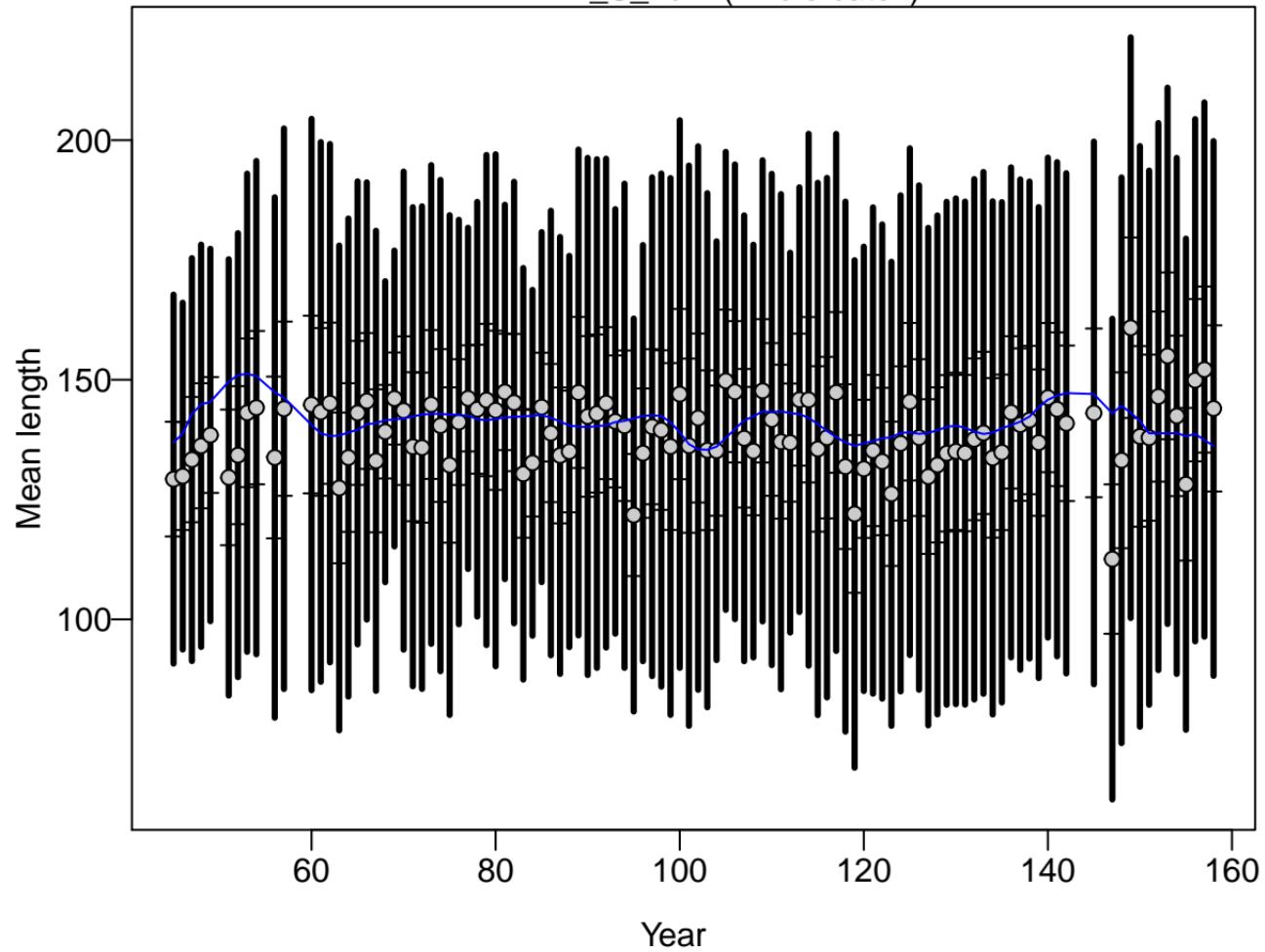
length comp data, whole catch, F14-LL_S_num



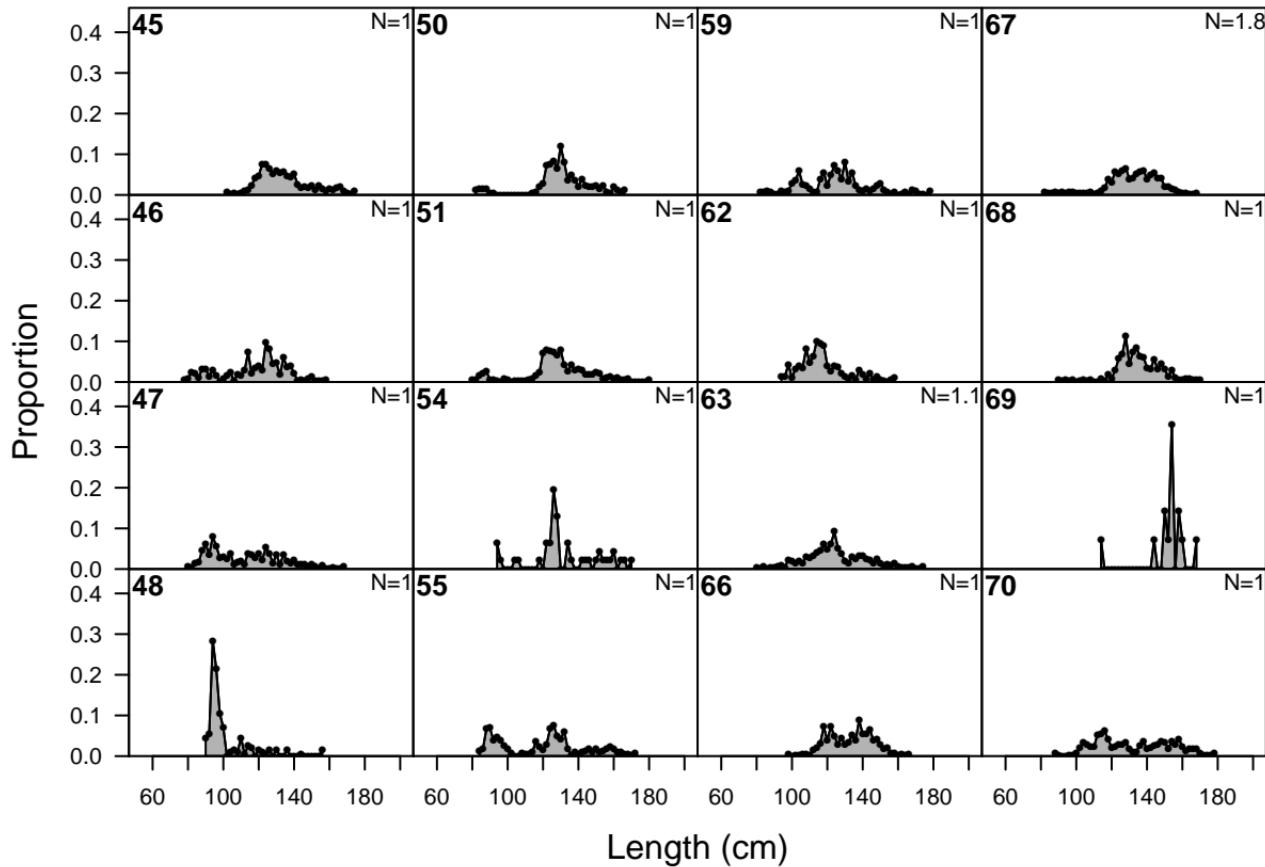
length comp data, whole catch, F14-LL_S_num (max=0.1)



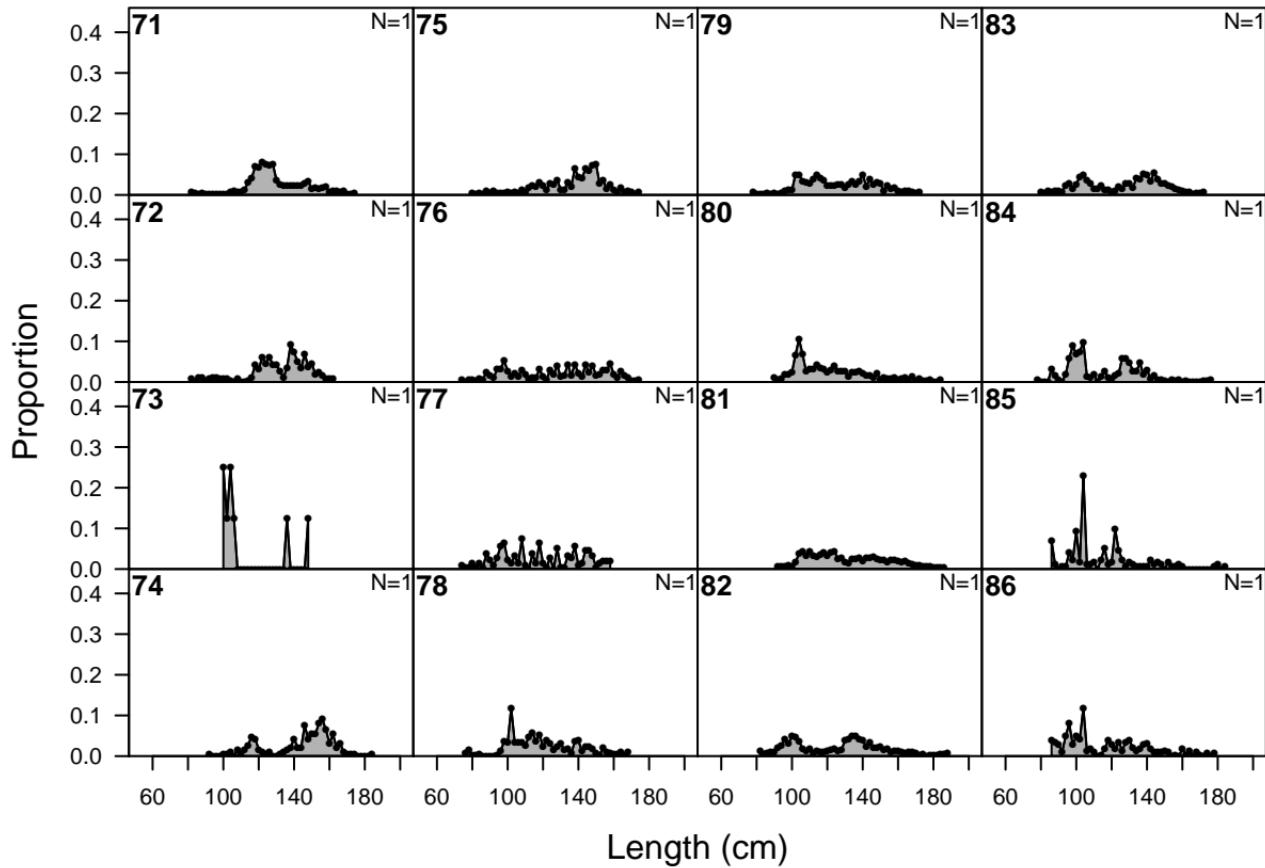
F14-LL_S_num (whole catch)



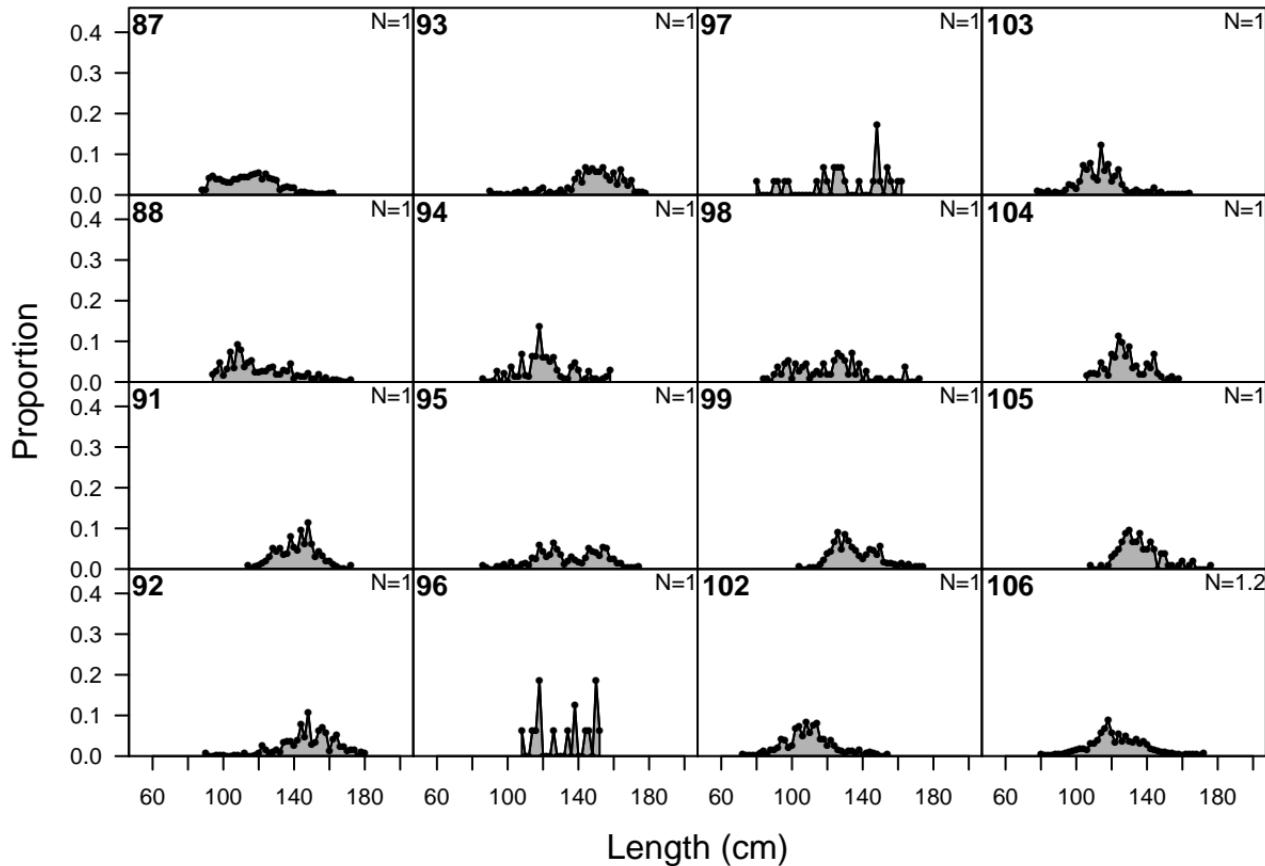
length comp data, whole catch, F15-LL_I_num



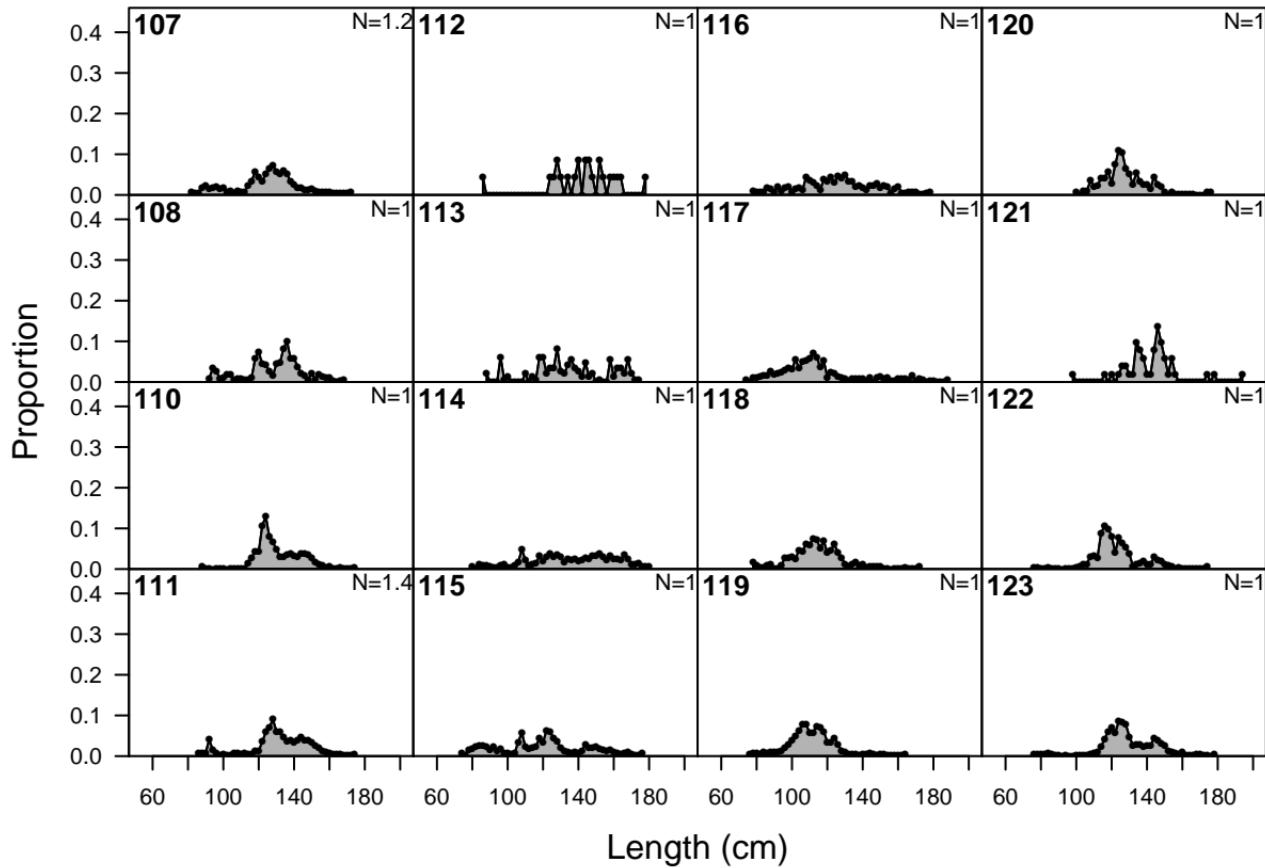
length comp data, whole catch, F15-LL_I_num



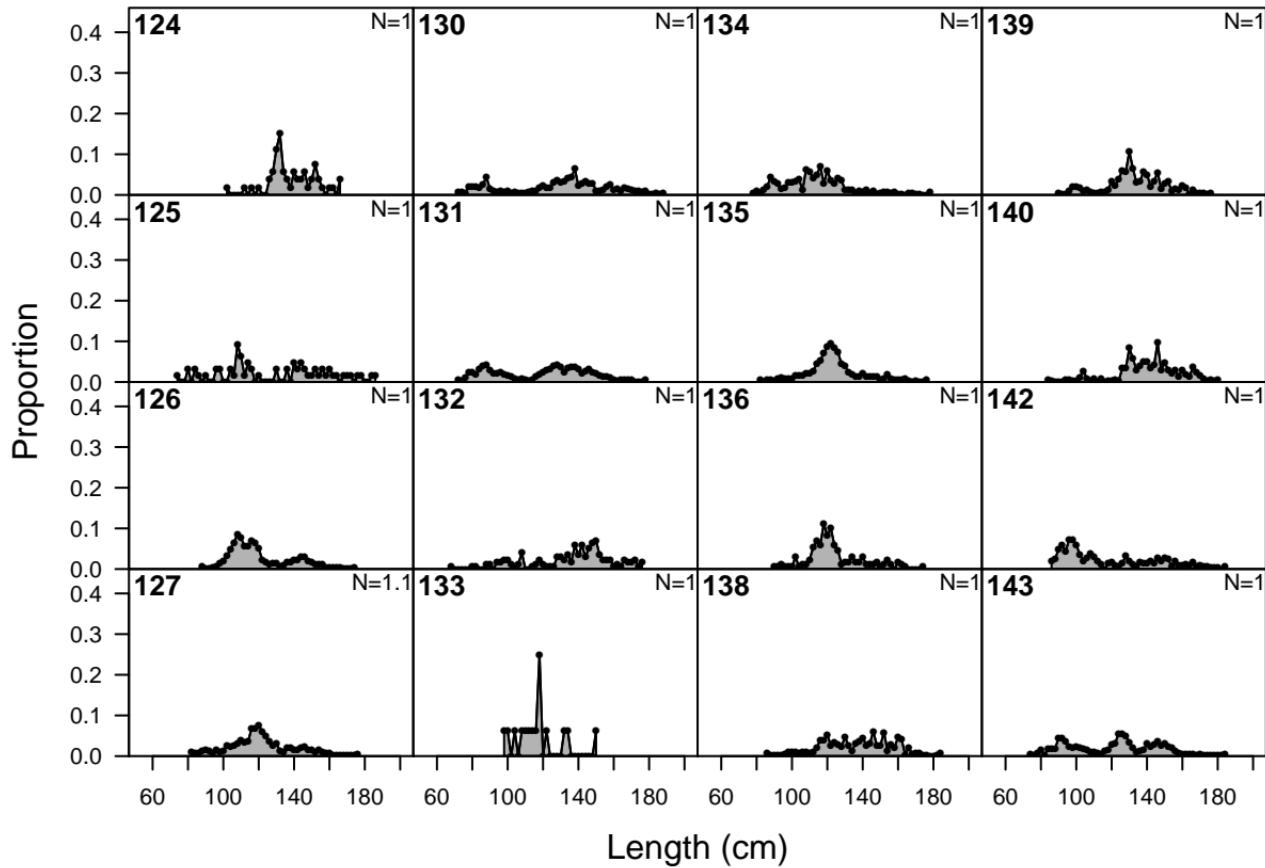
length comp data, whole catch, F15-LL_I_num



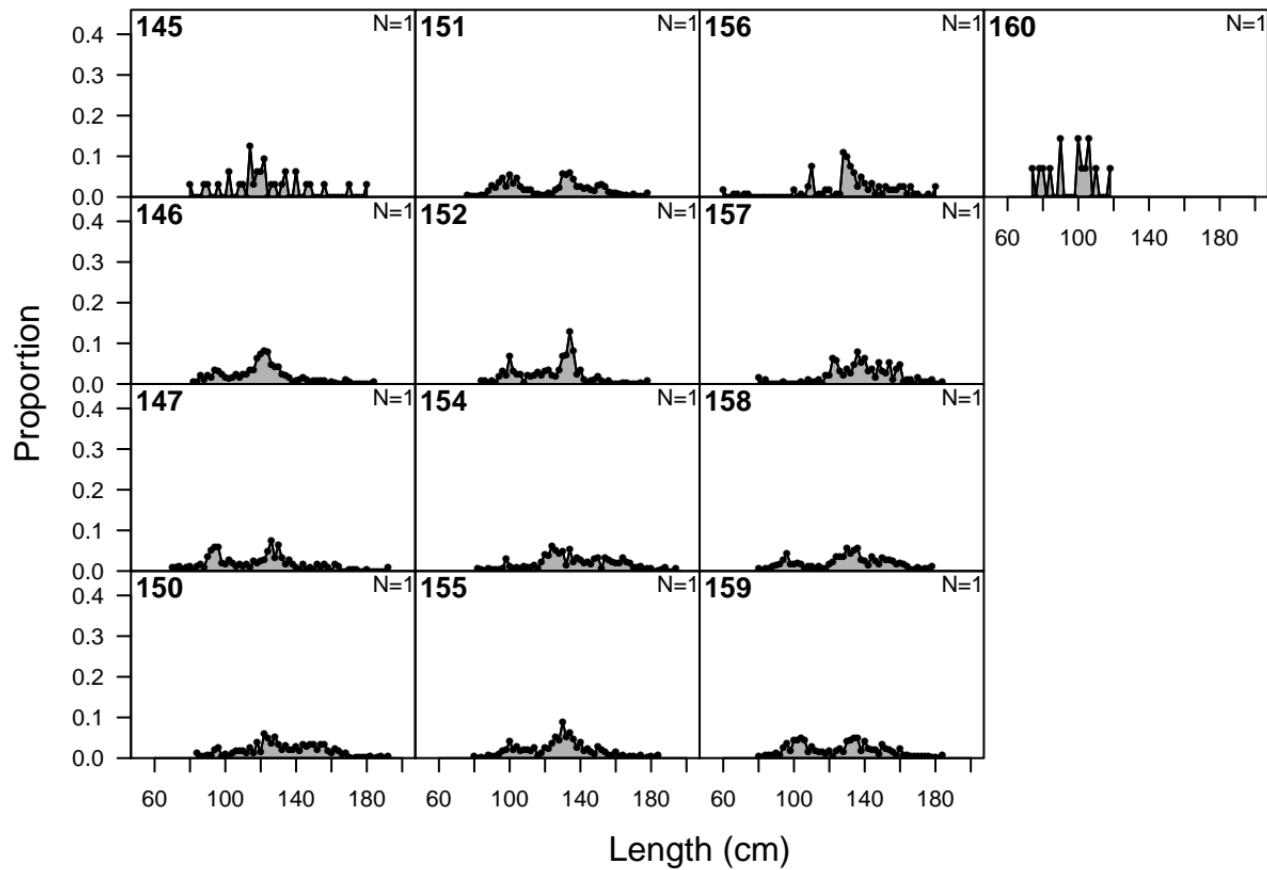
length comp data, whole catch, F15-LL_I_num



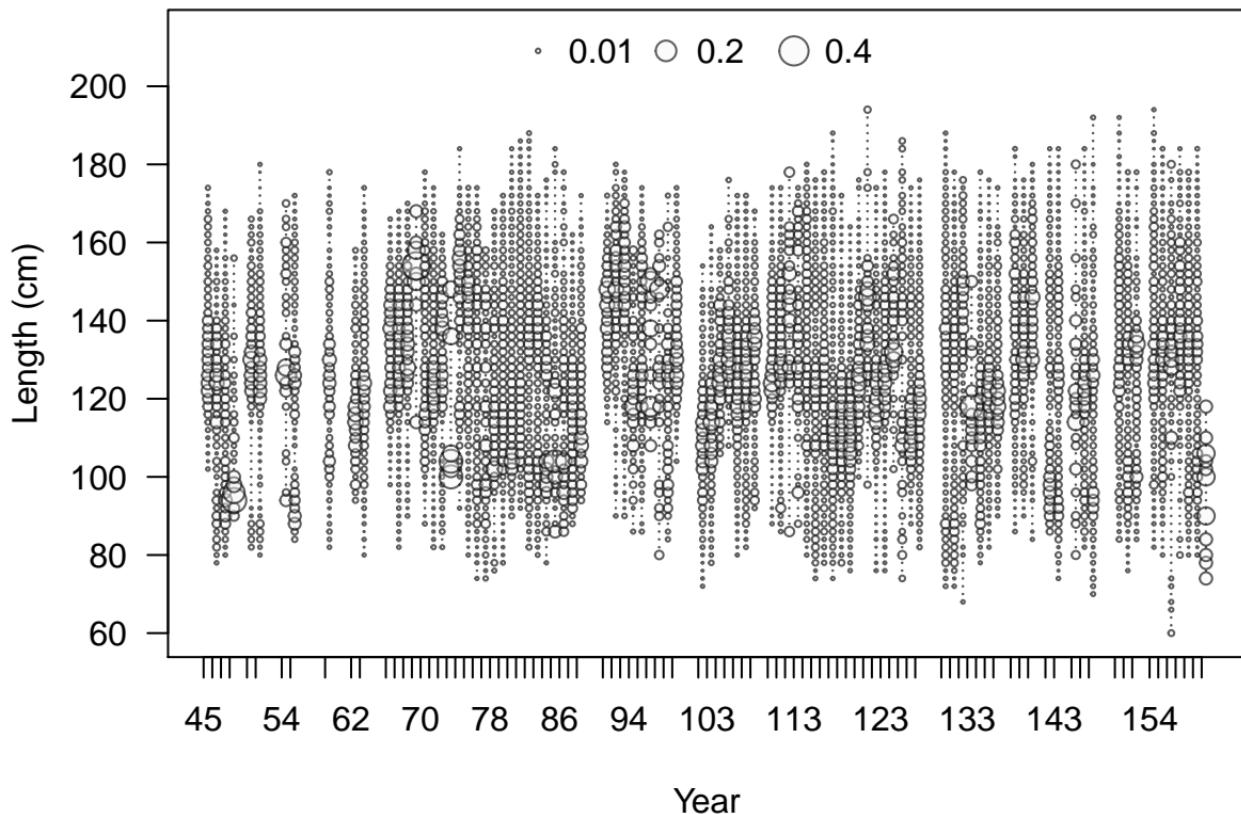
length comp data, whole catch, F15-LL_I_num



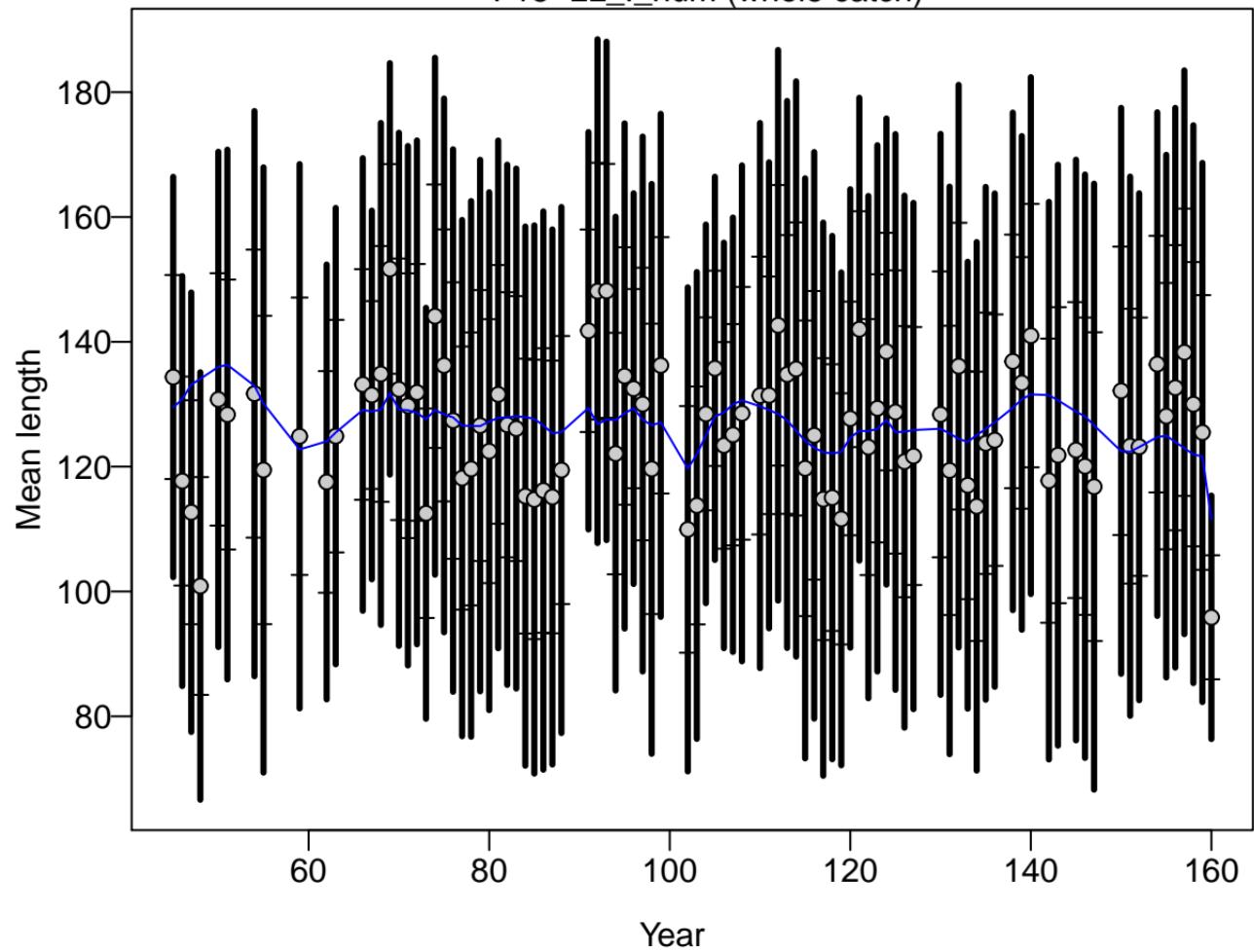
length comp data, whole catch, F15-LL_I_num



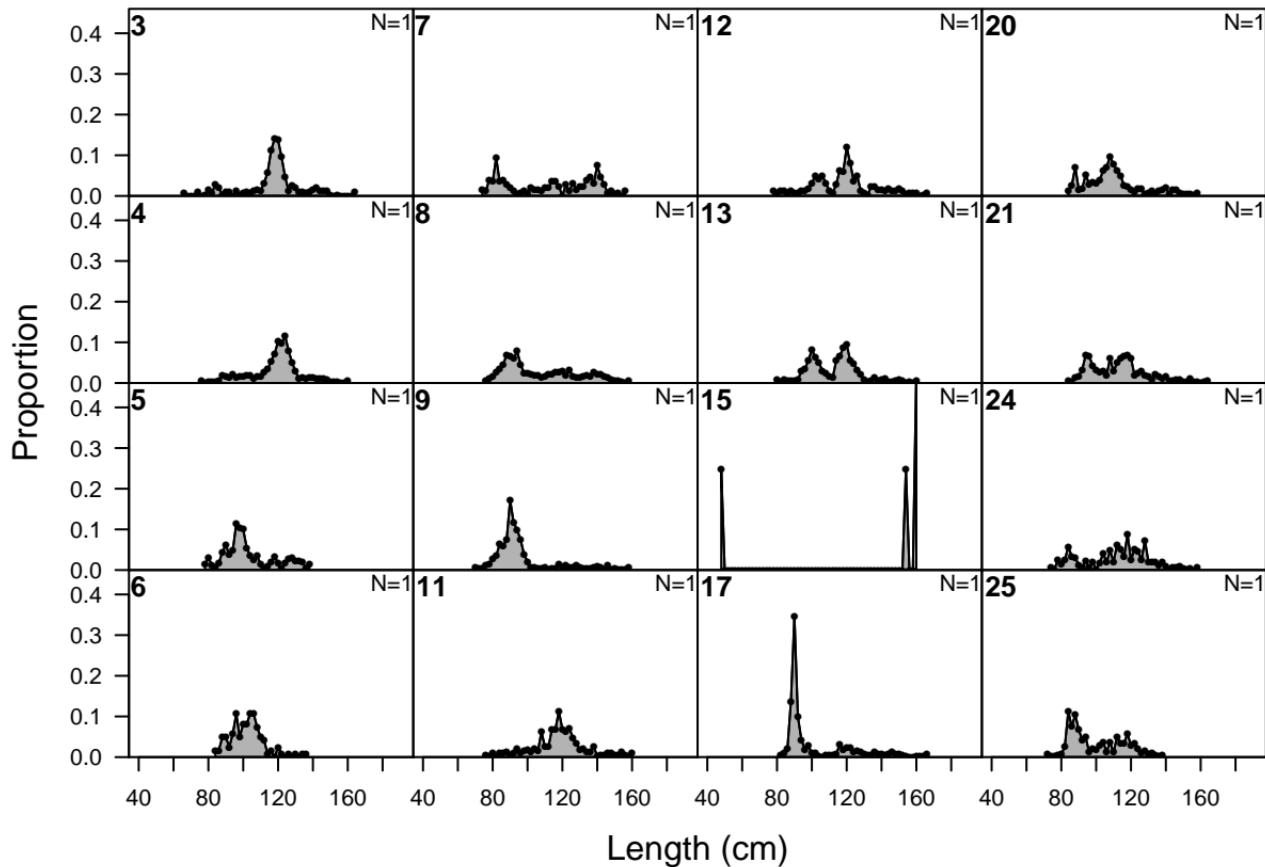
length comp data, whole catch, F15-LL_I_num (max=0.36)



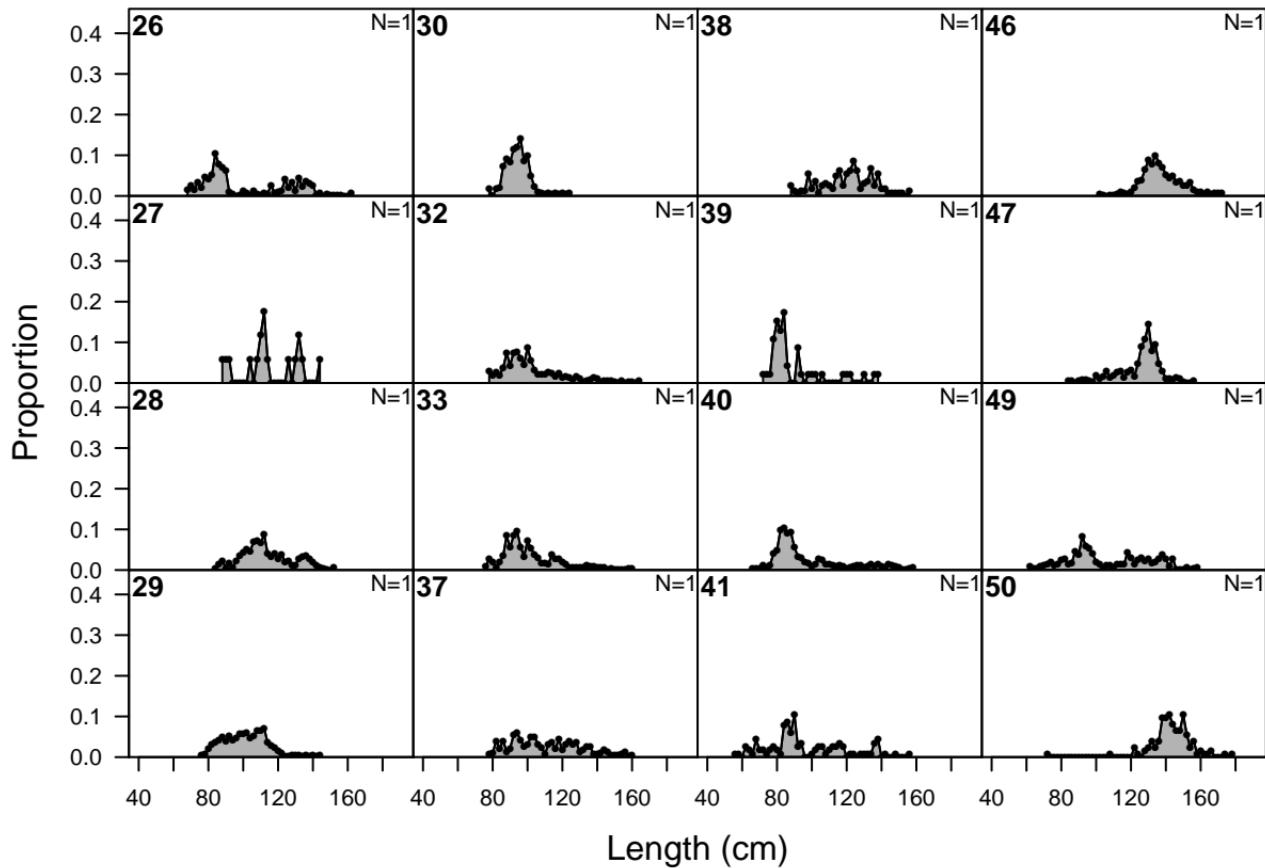
F15-LL_I_num (whole catch)



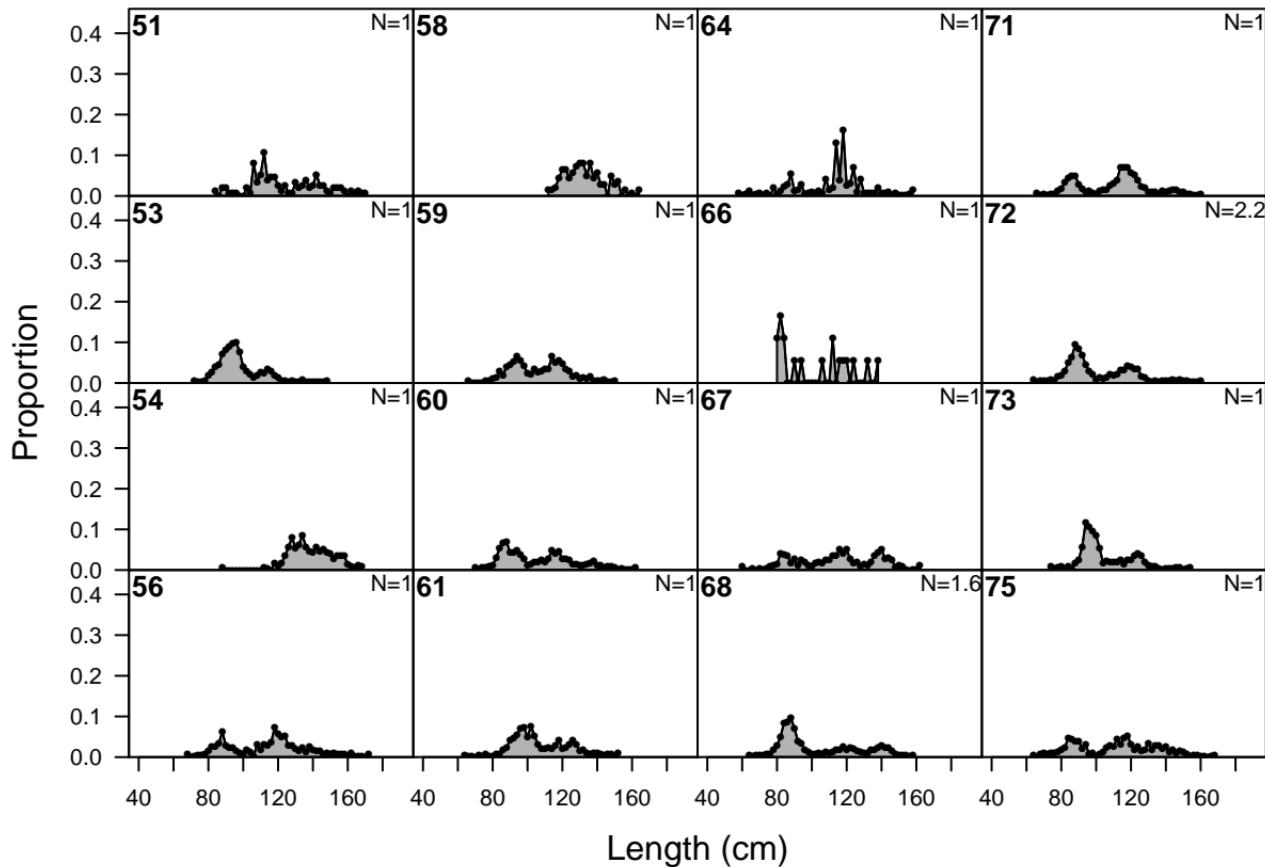
length comp data, whole catch, S1-LLt_N_len



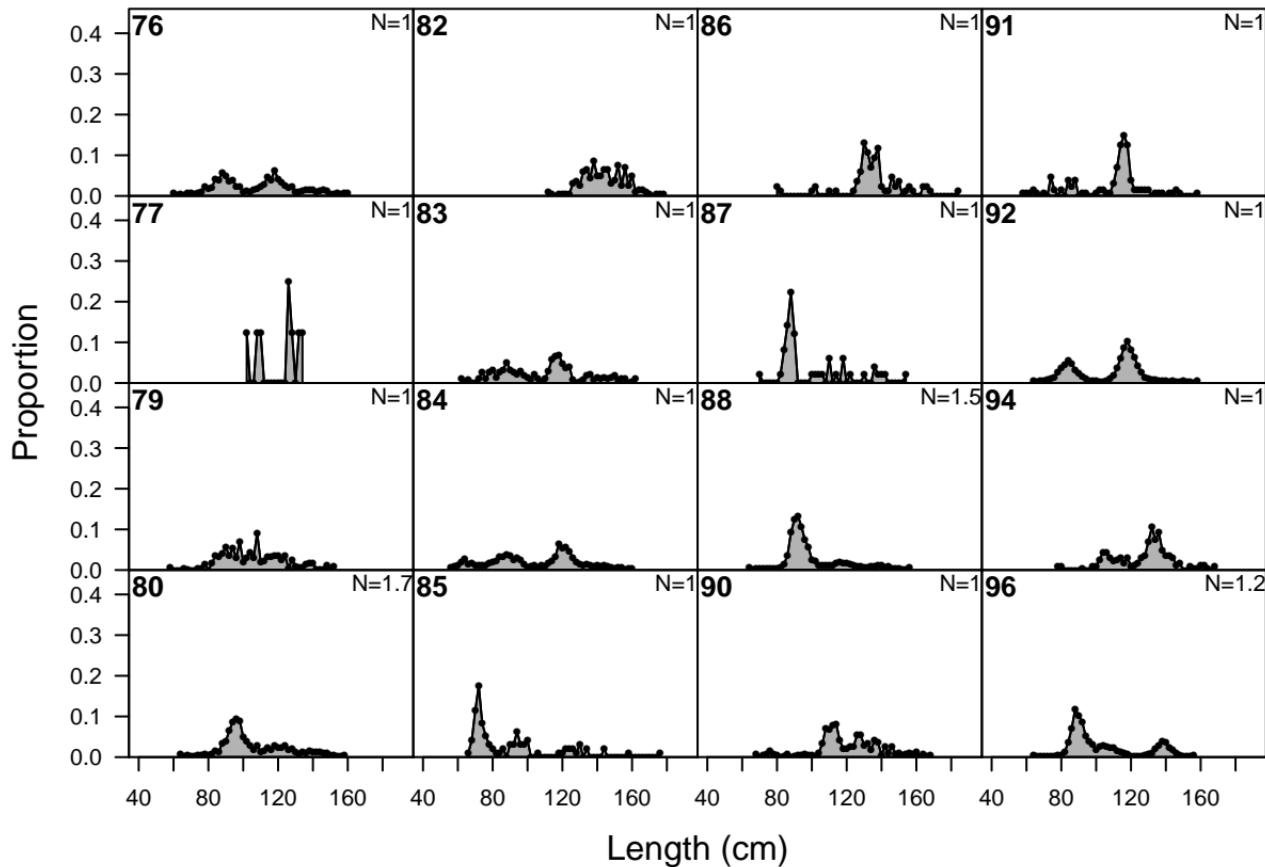
length comp data, whole catch, S1-LLt_N_len



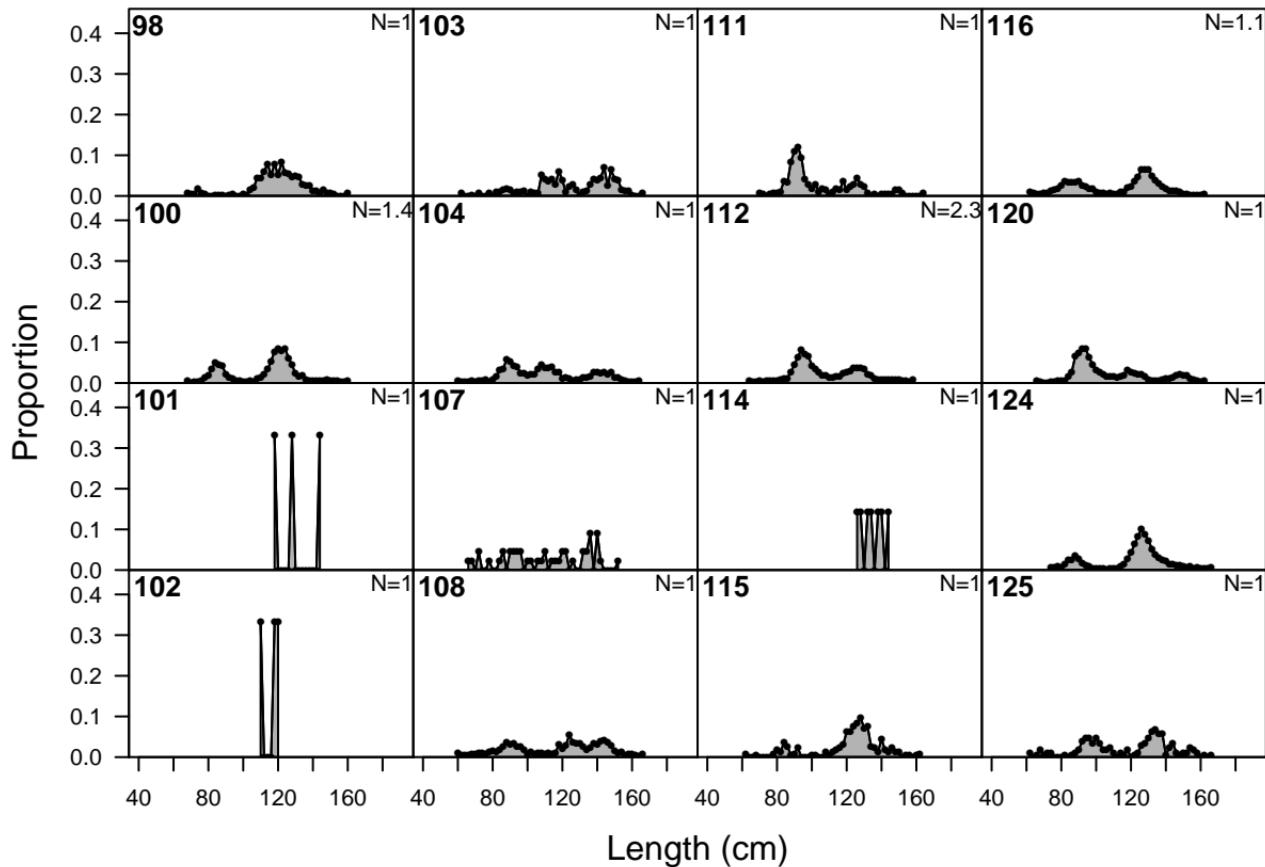
length comp data, whole catch, S1-LLt_N_len



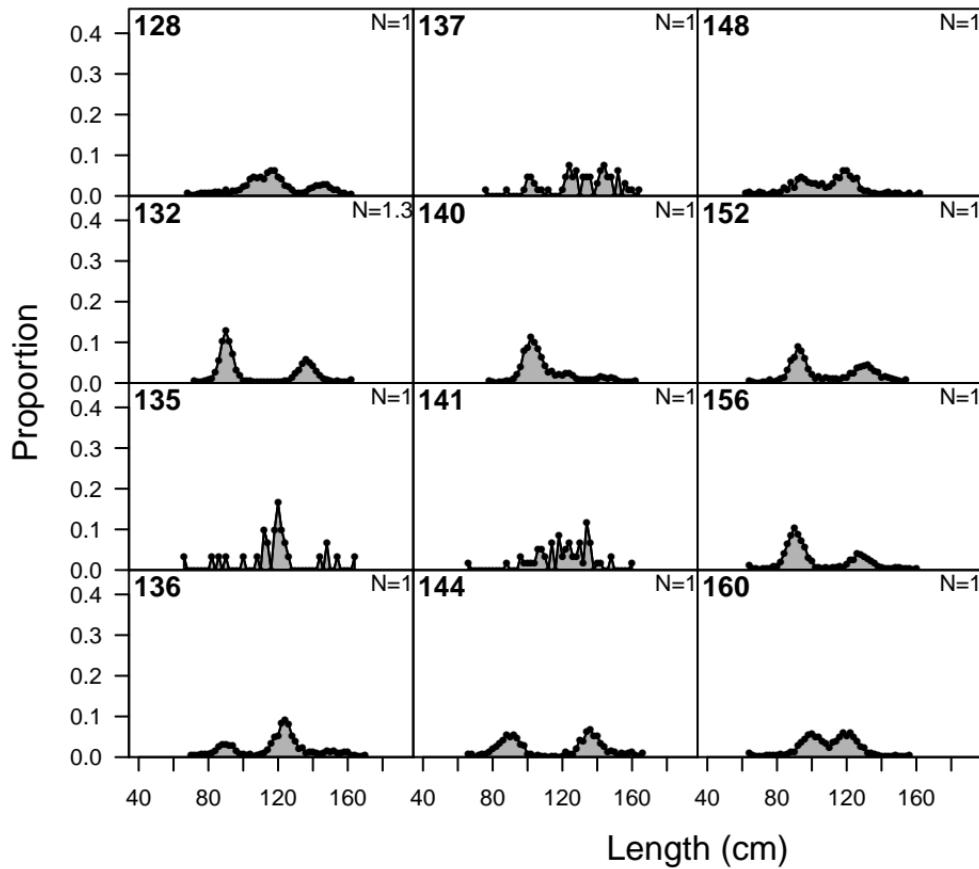
length comp data, whole catch, S1-LLt_N_len



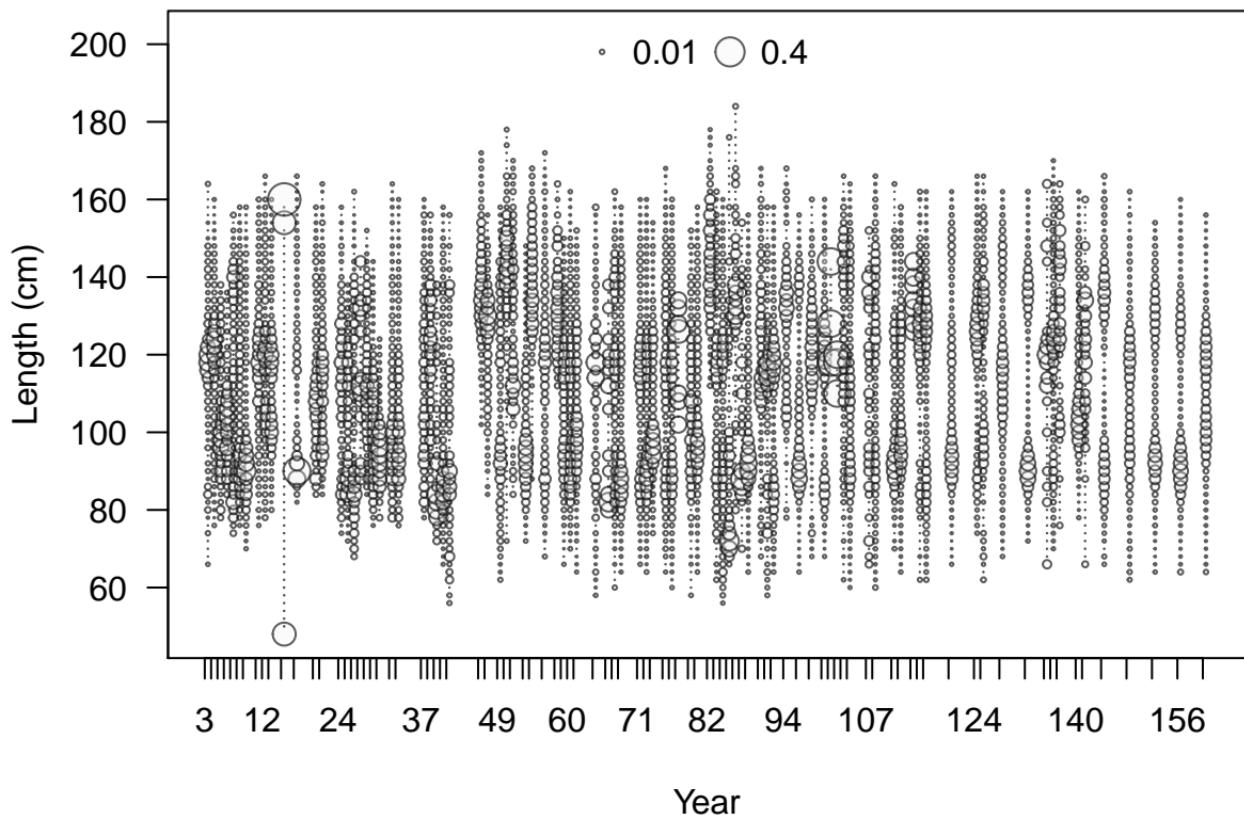
length comp data, whole catch, S1-LLt_N_len



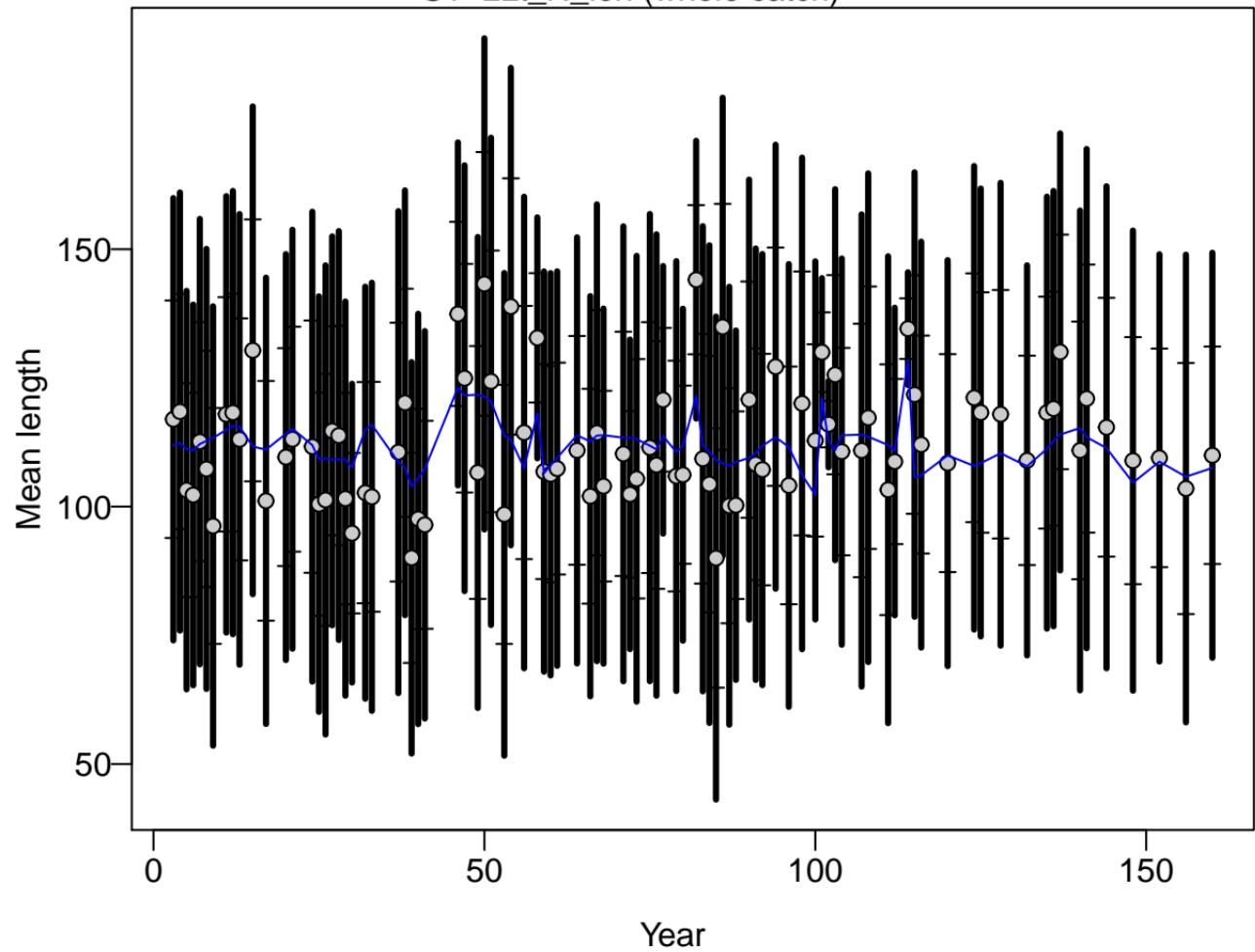
length comp data, whole catch, S1-LLt_N_len



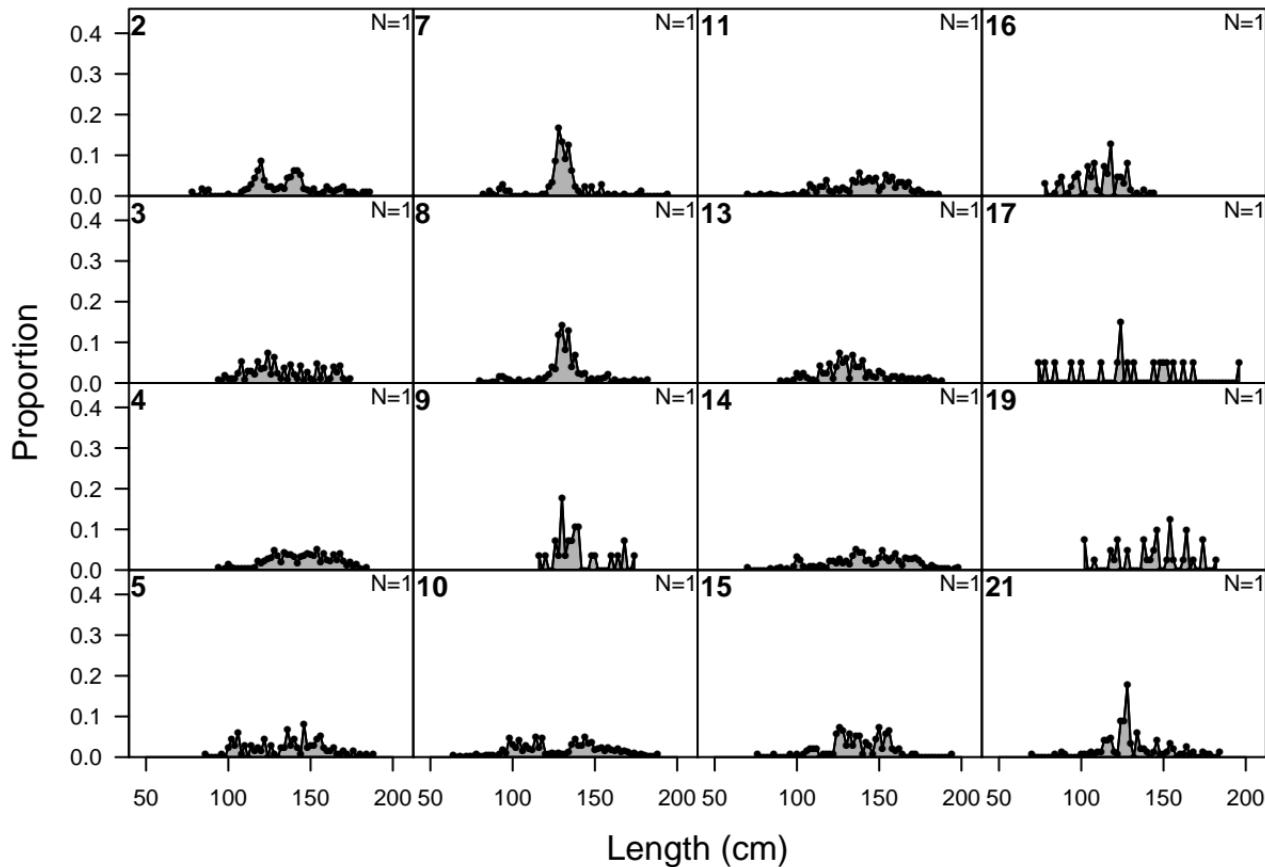
length comp data, whole catch, S1-LLt_N_len (max=0.5)



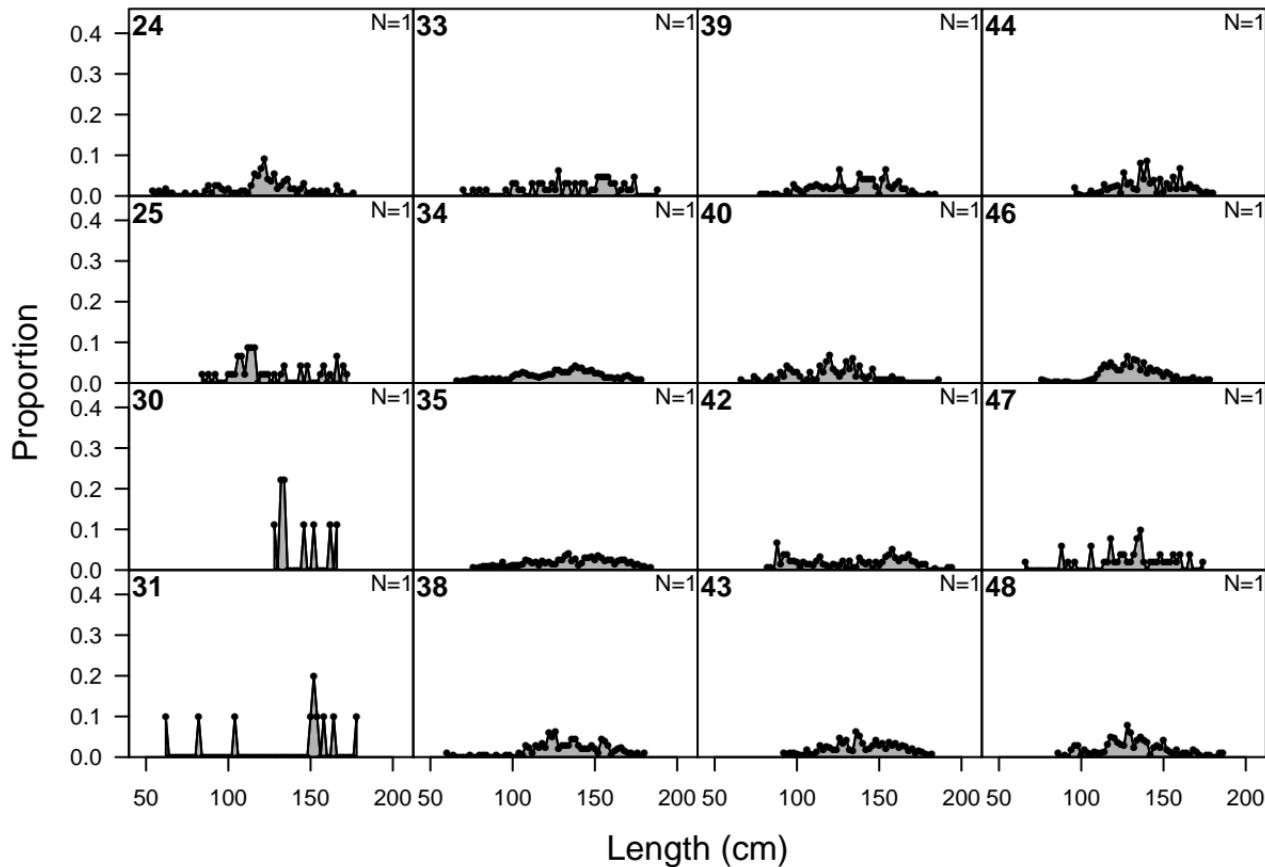
S1–LLt_N_len (whole catch)



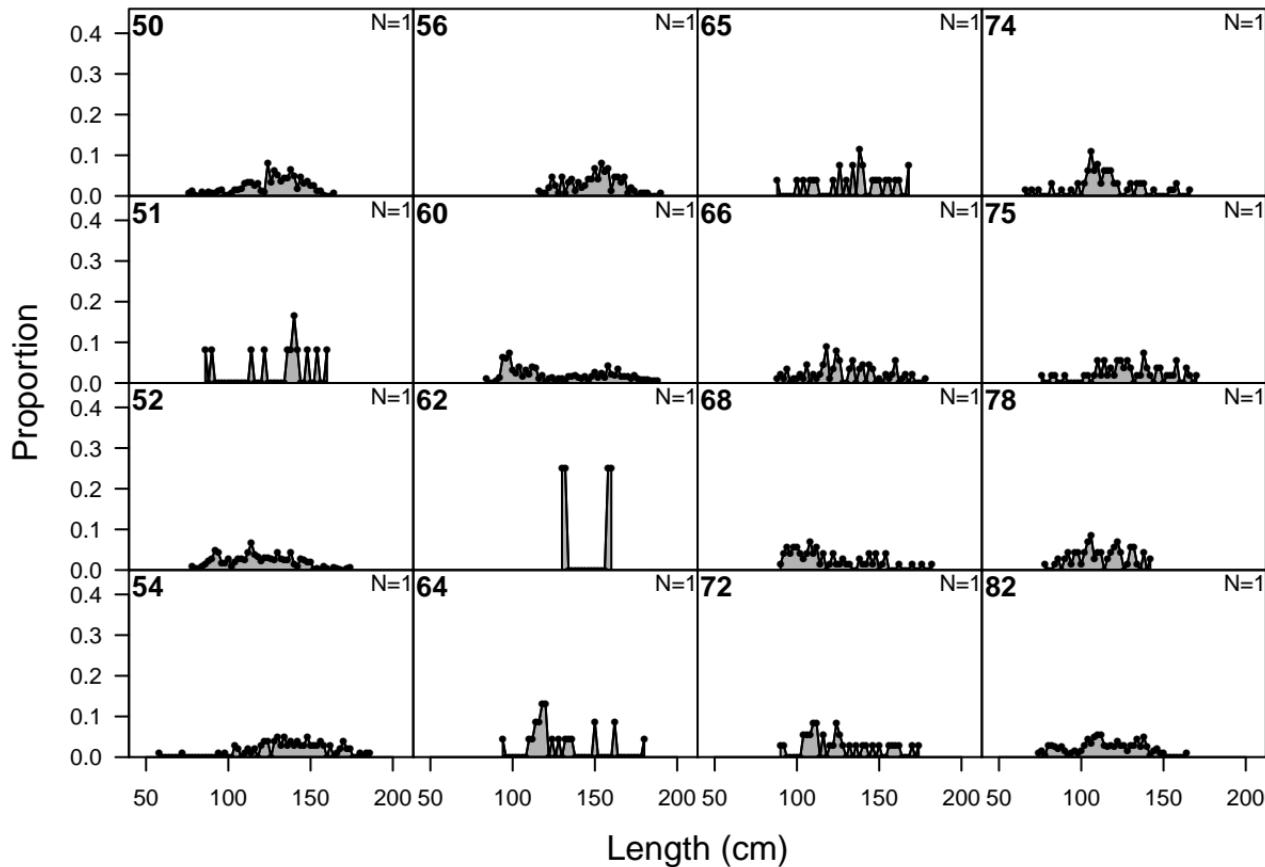
length comp data, whole catch, S2-LLt_C_len



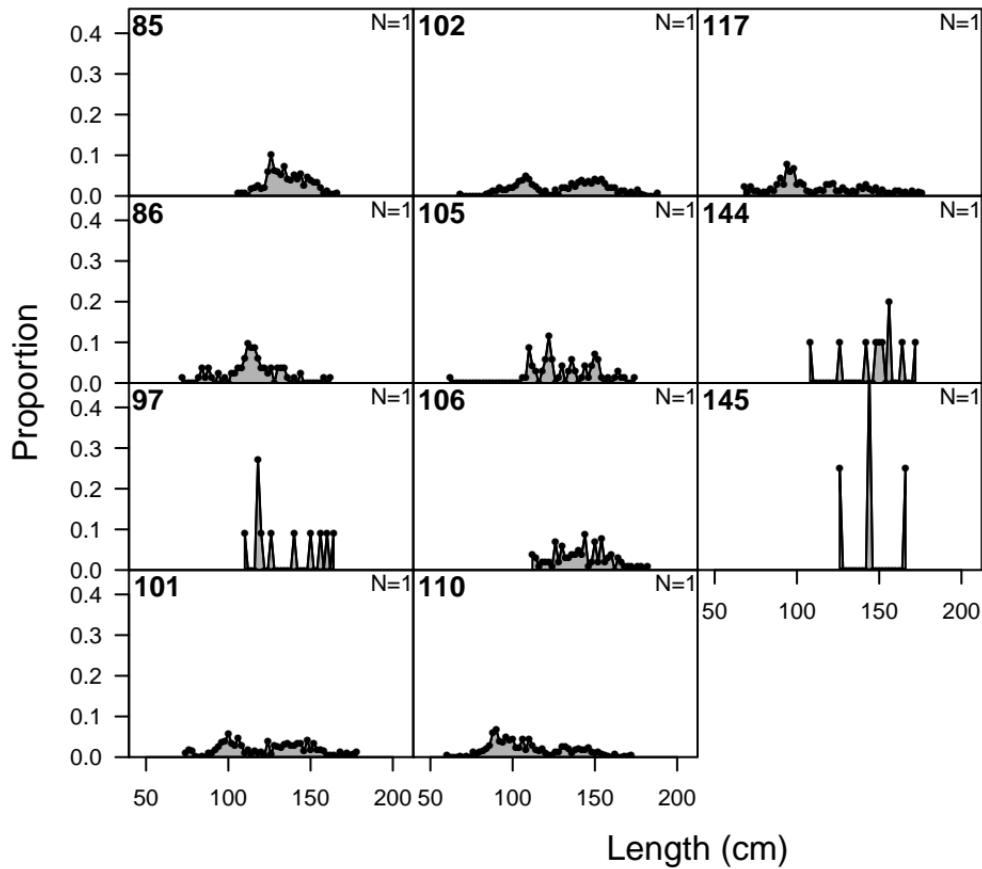
length comp data, whole catch, S2-LLt_C_len



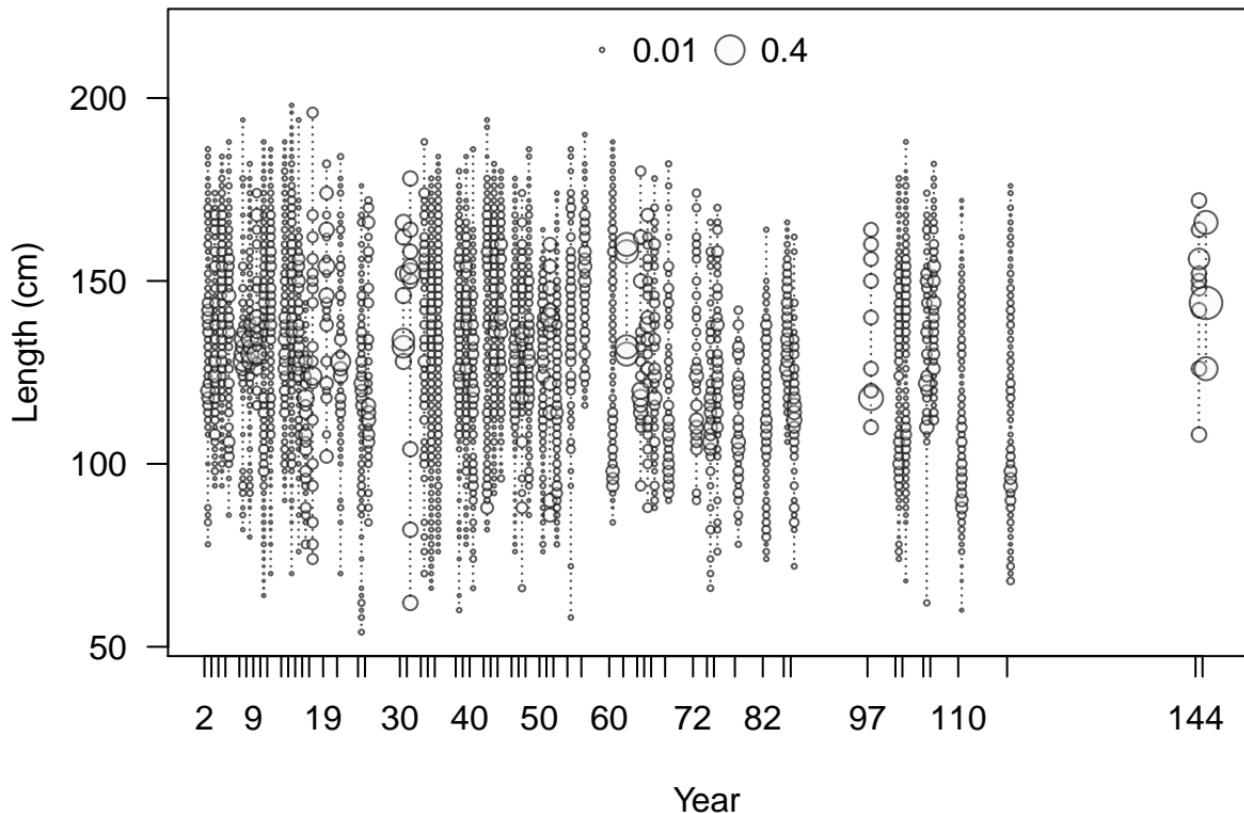
length comp data, whole catch, S2-LLt_C_len



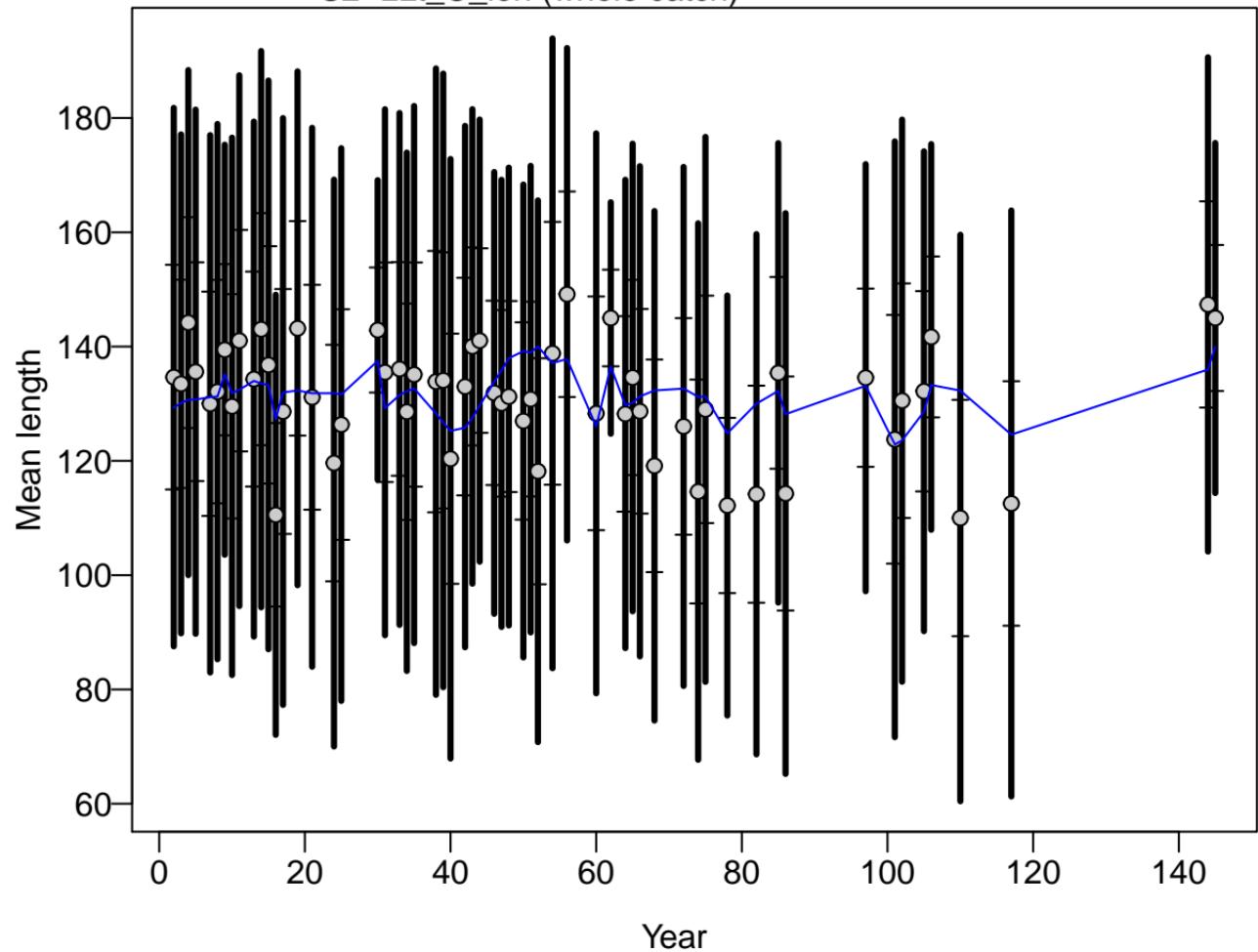
length comp data, whole catch, S2-LLt_C_len



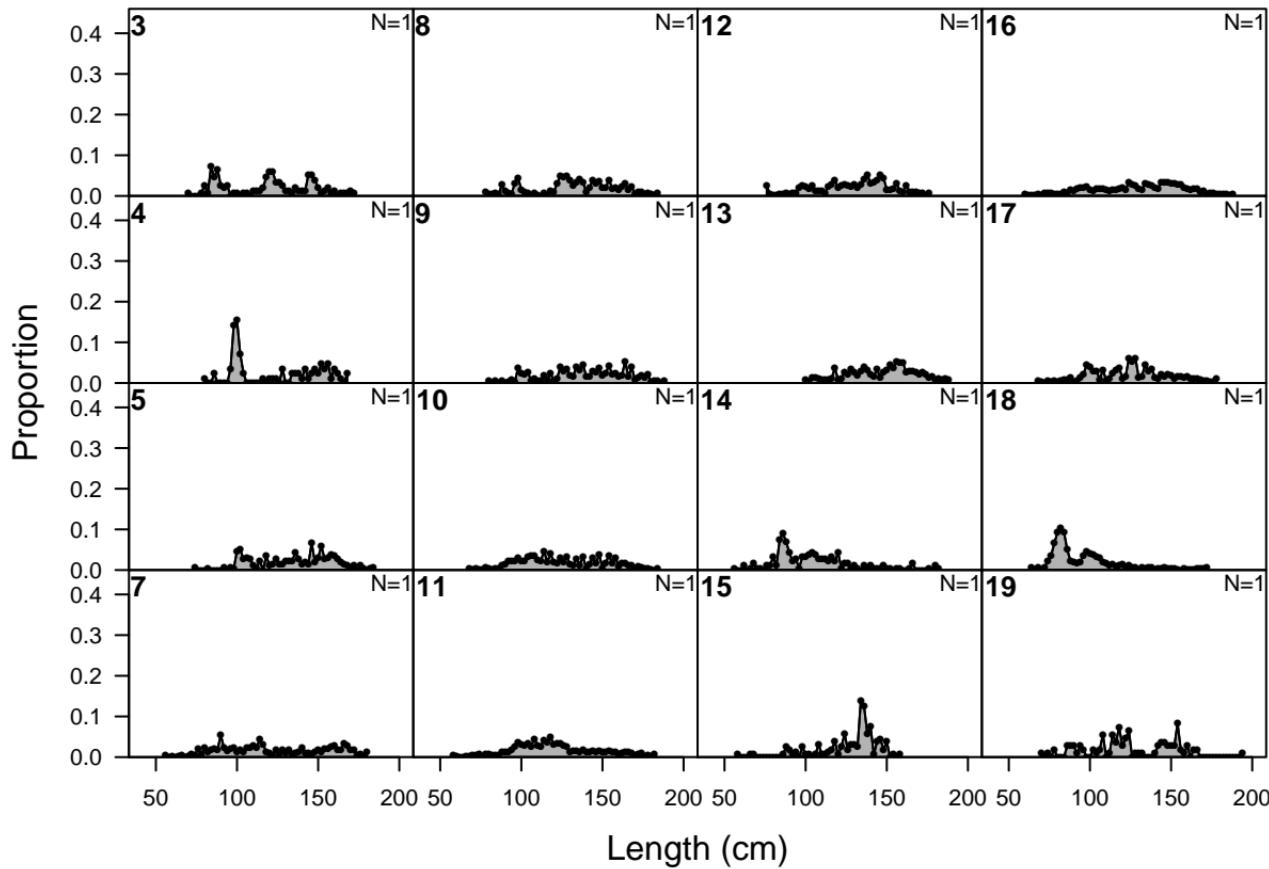
length comp data, whole catch, S2-LLt_C_len (max=0.5)



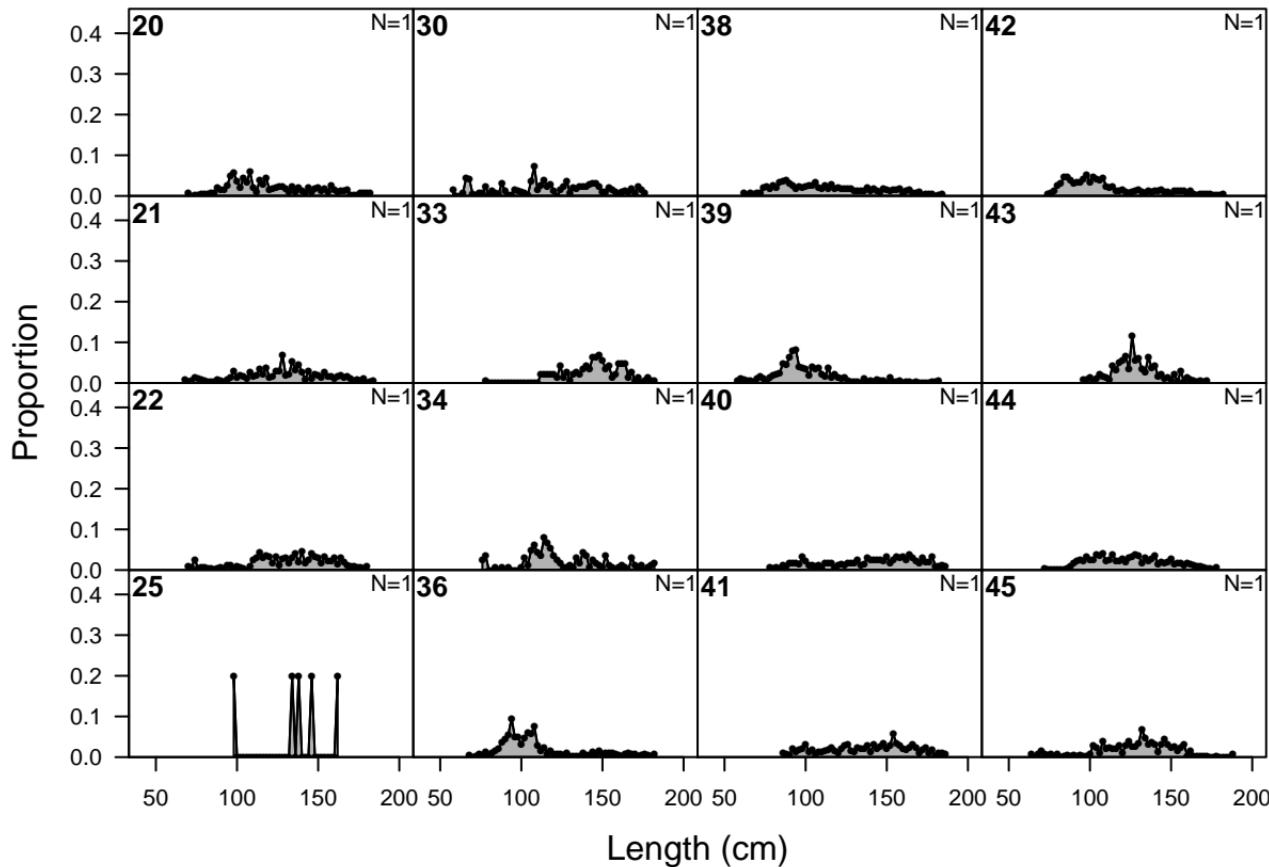
S2-LLt_C_len (whole catch)



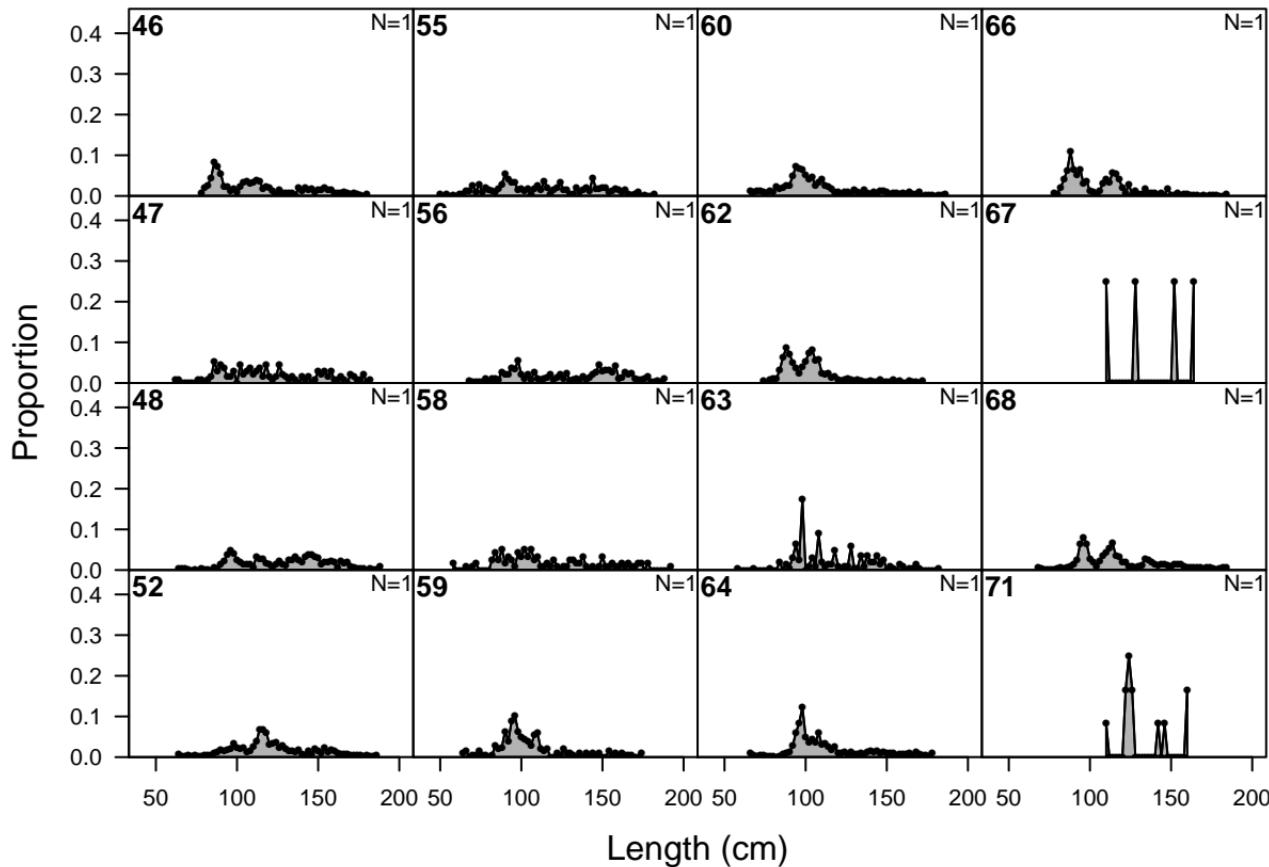
length comp data, whole catch, S3-LLt_S_len



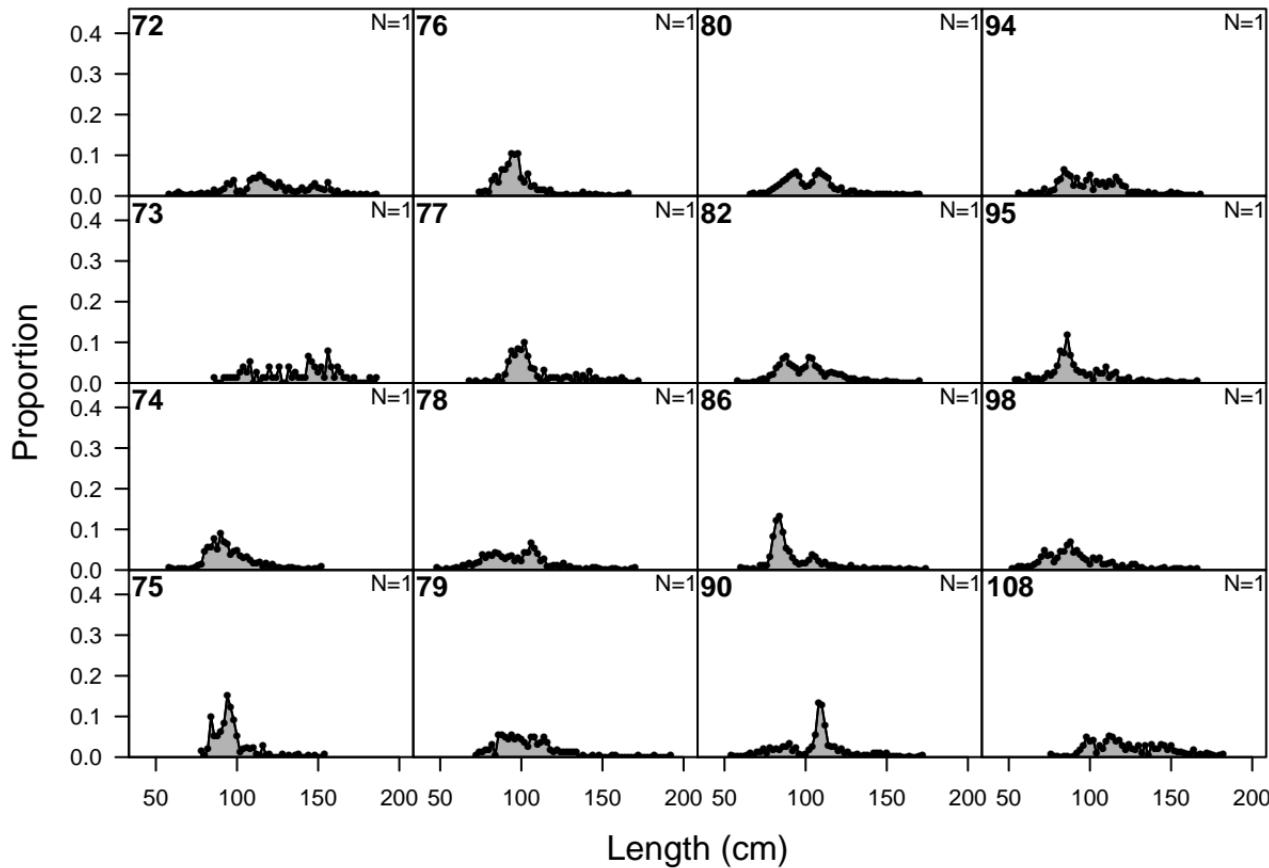
length comp data, whole catch, S3-LLt_S_len



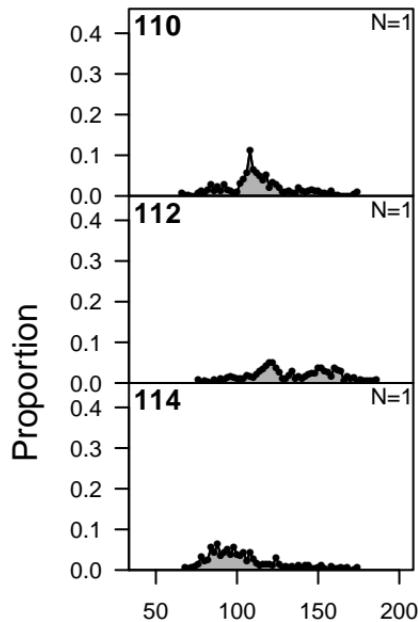
length comp data, whole catch, S3-LLt_S_len



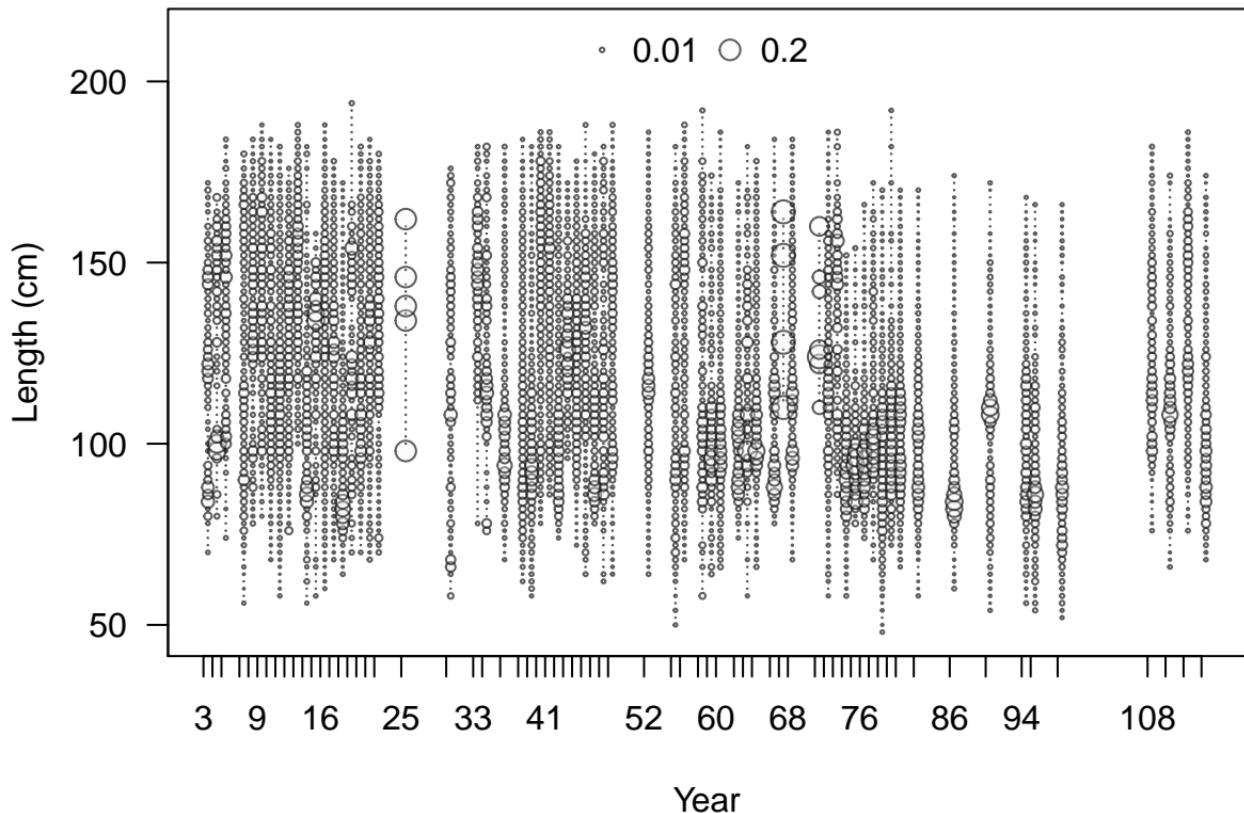
length comp data, whole catch, S3-LLt_S_len



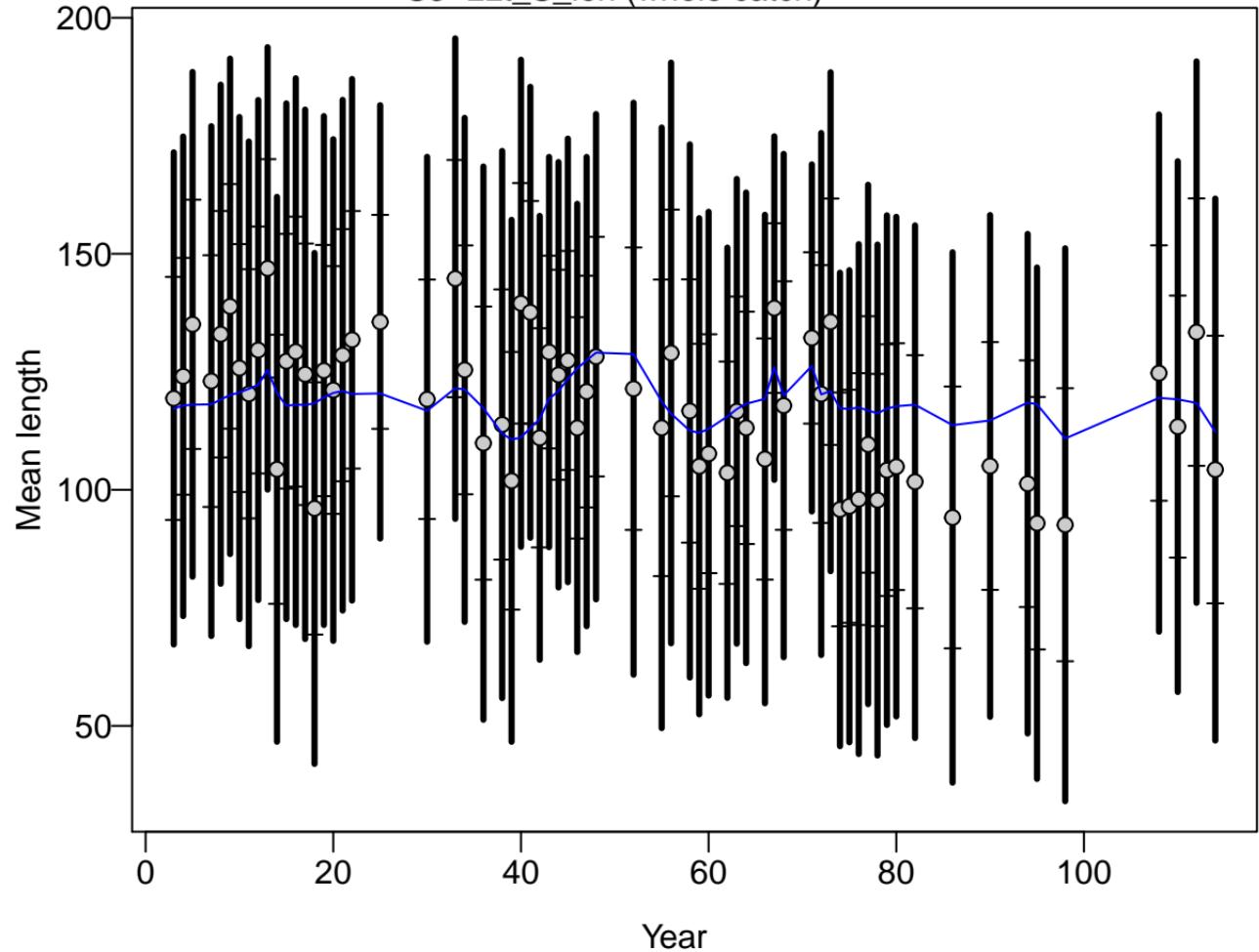
length comp data, whole catch, S3-LLt_S_len



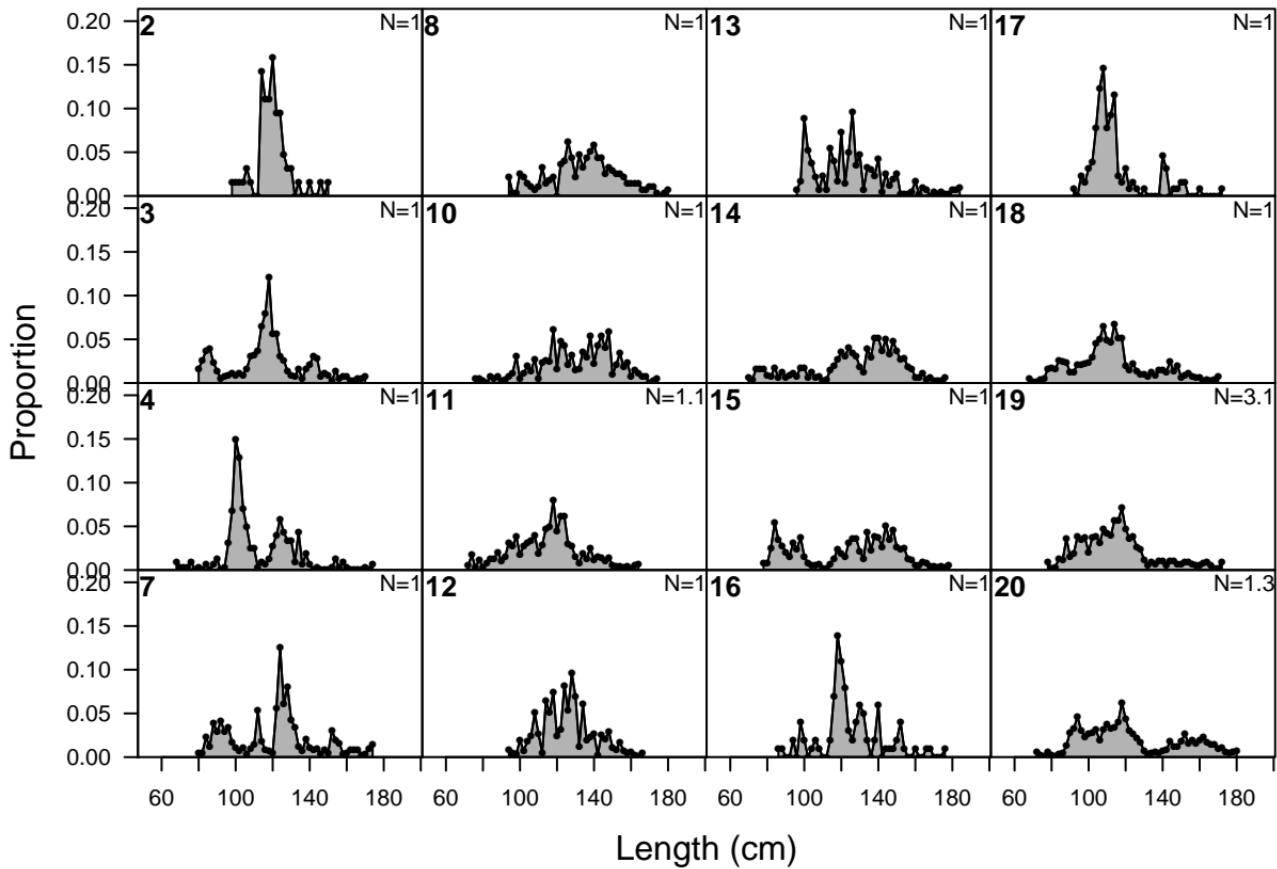
length comp data, whole catch, S3–LLt_S_len (max=0.25)



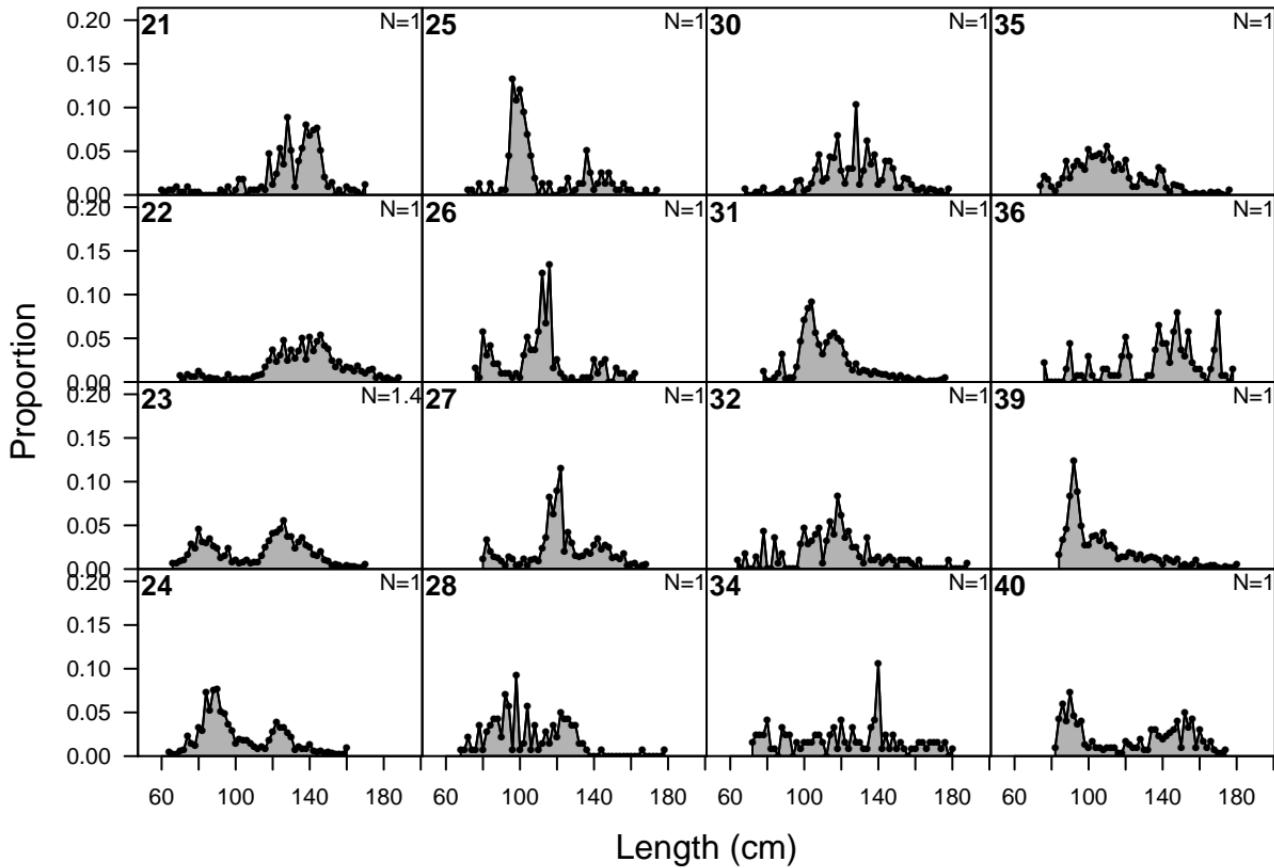
S3-LLt_S_len (whole catch)



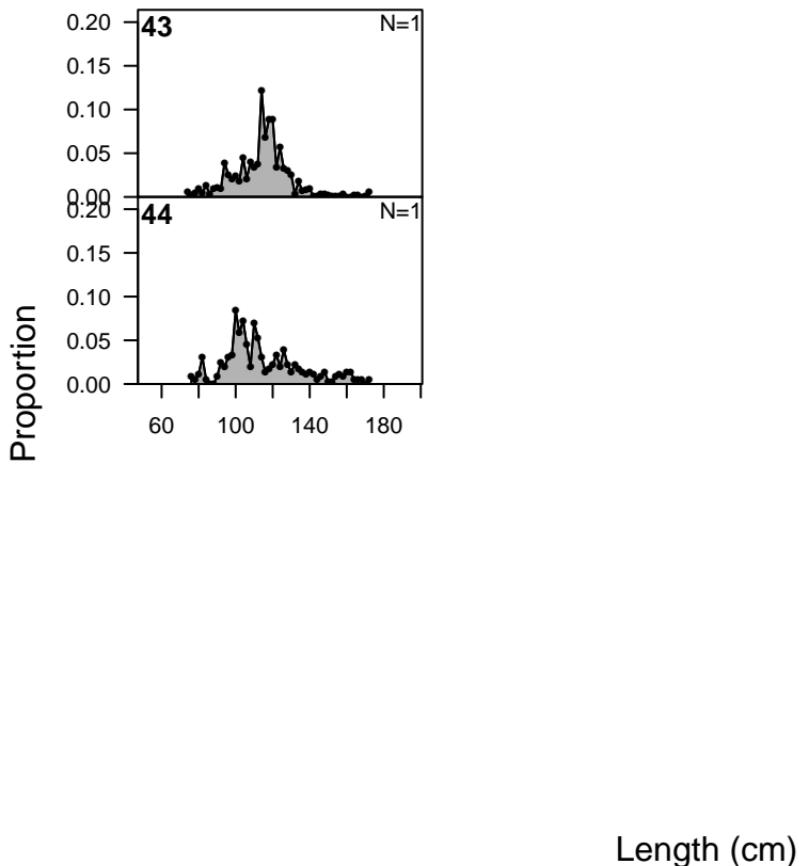
length comp data, whole catch, S4-LLt_I_len



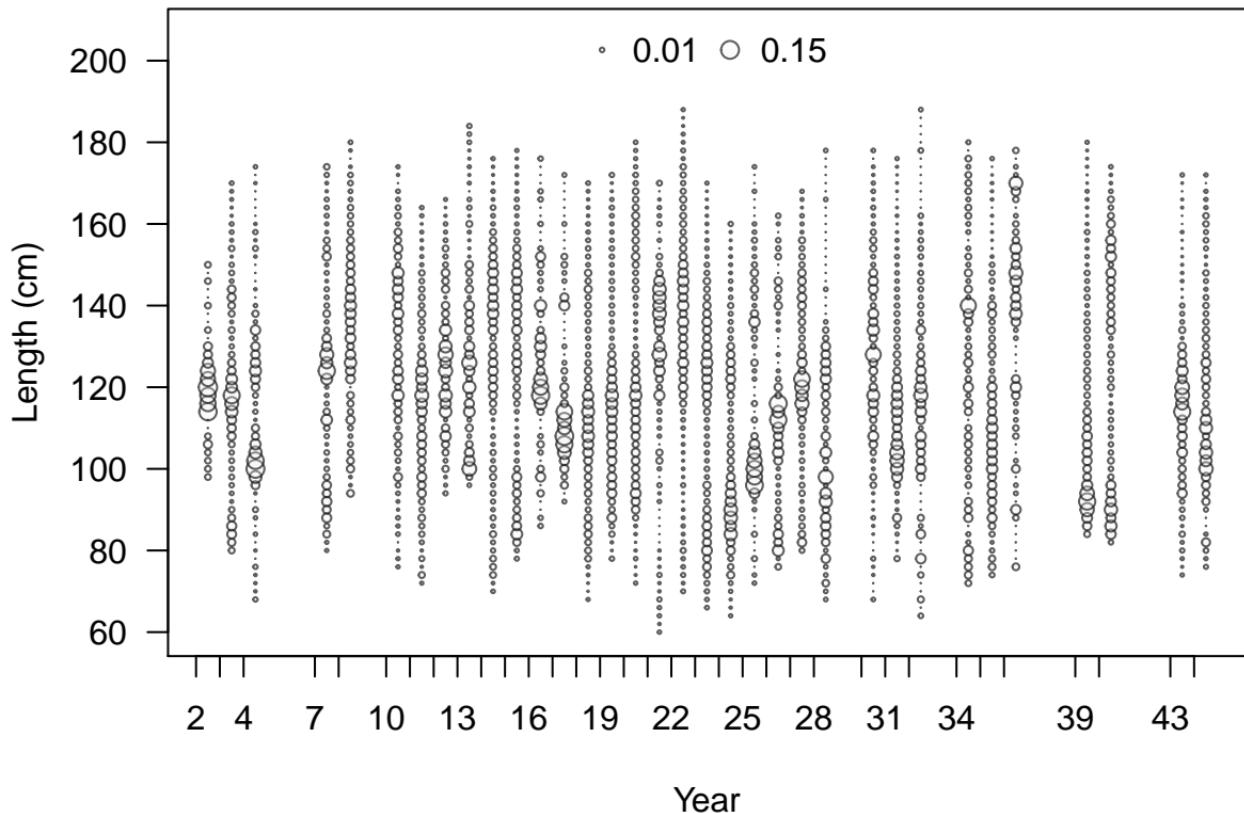
length comp data, whole catch, S4-LLt_I_len



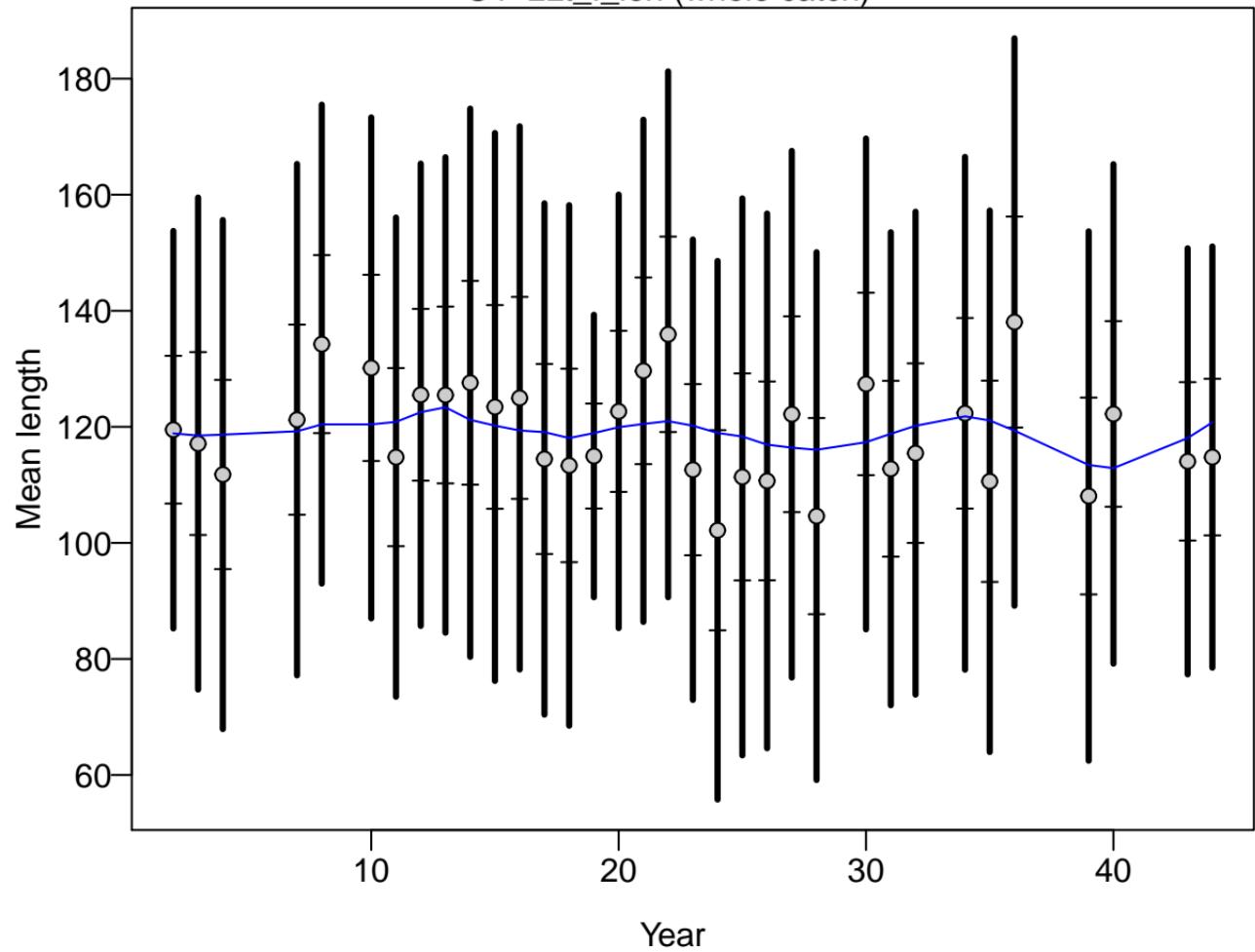
length comp data, whole catch, S4-LLt_I_len



length comp data, whole catch, S4–LLt_I_len (max=0.16)

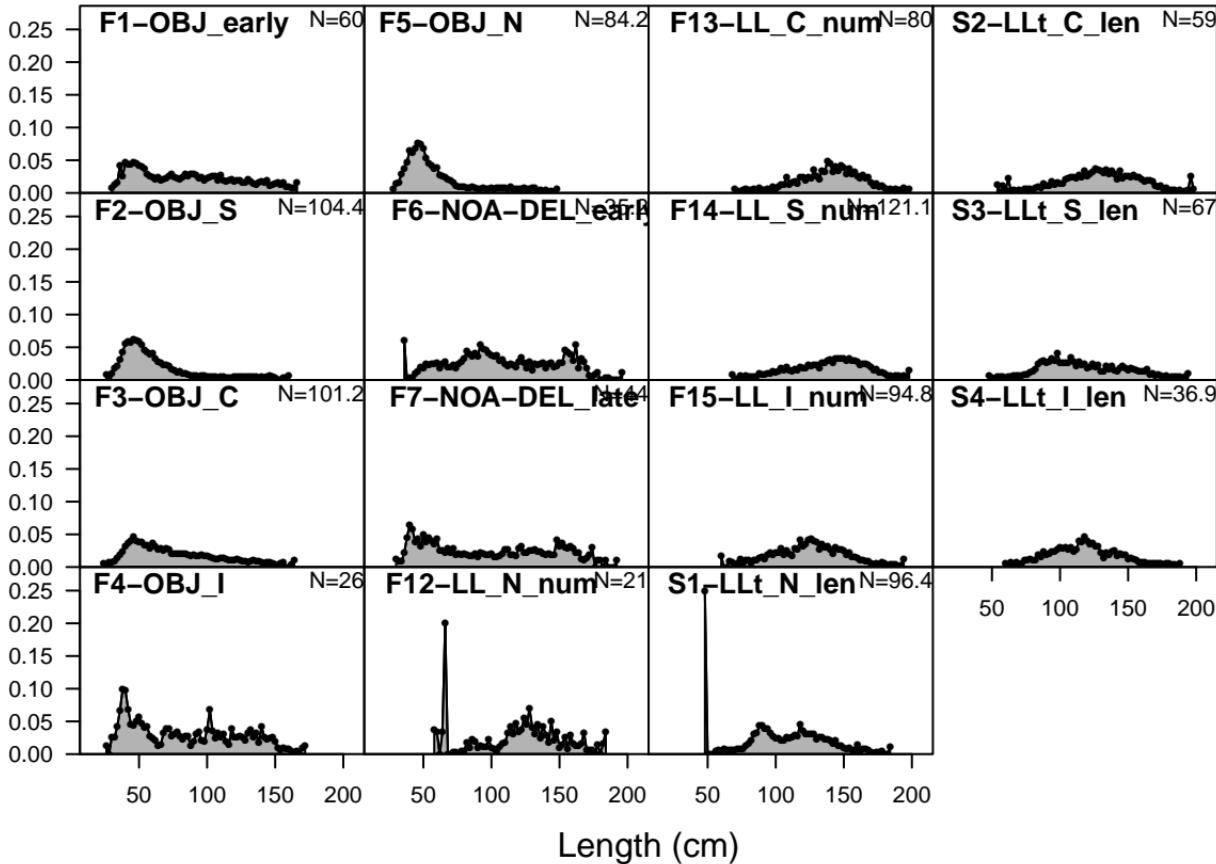


S4-LLt_I_len (whole catch)



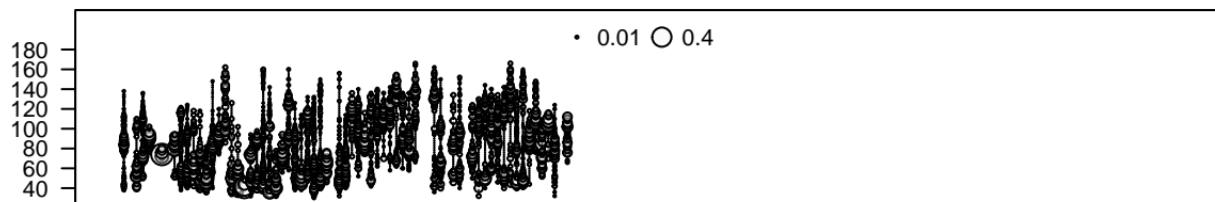
length comp data, whole catch, aggregated across time by fleet

Proportion



length comp data, sexes combined, whole catch, comparing across fleets

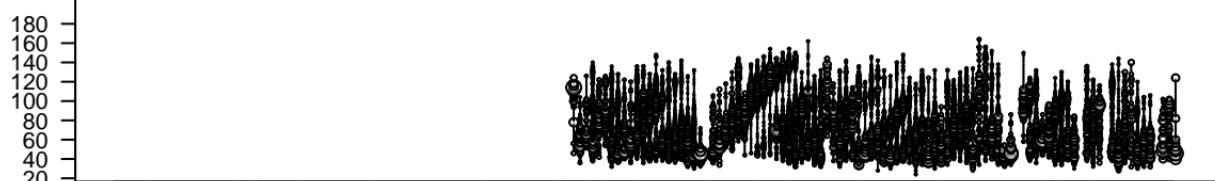
F1-OBJ_early



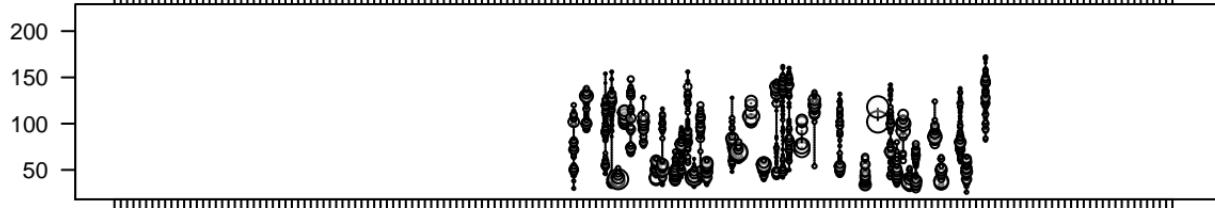
F2-OBJ_S



F3-OBJ_C



F4-OBJ_I

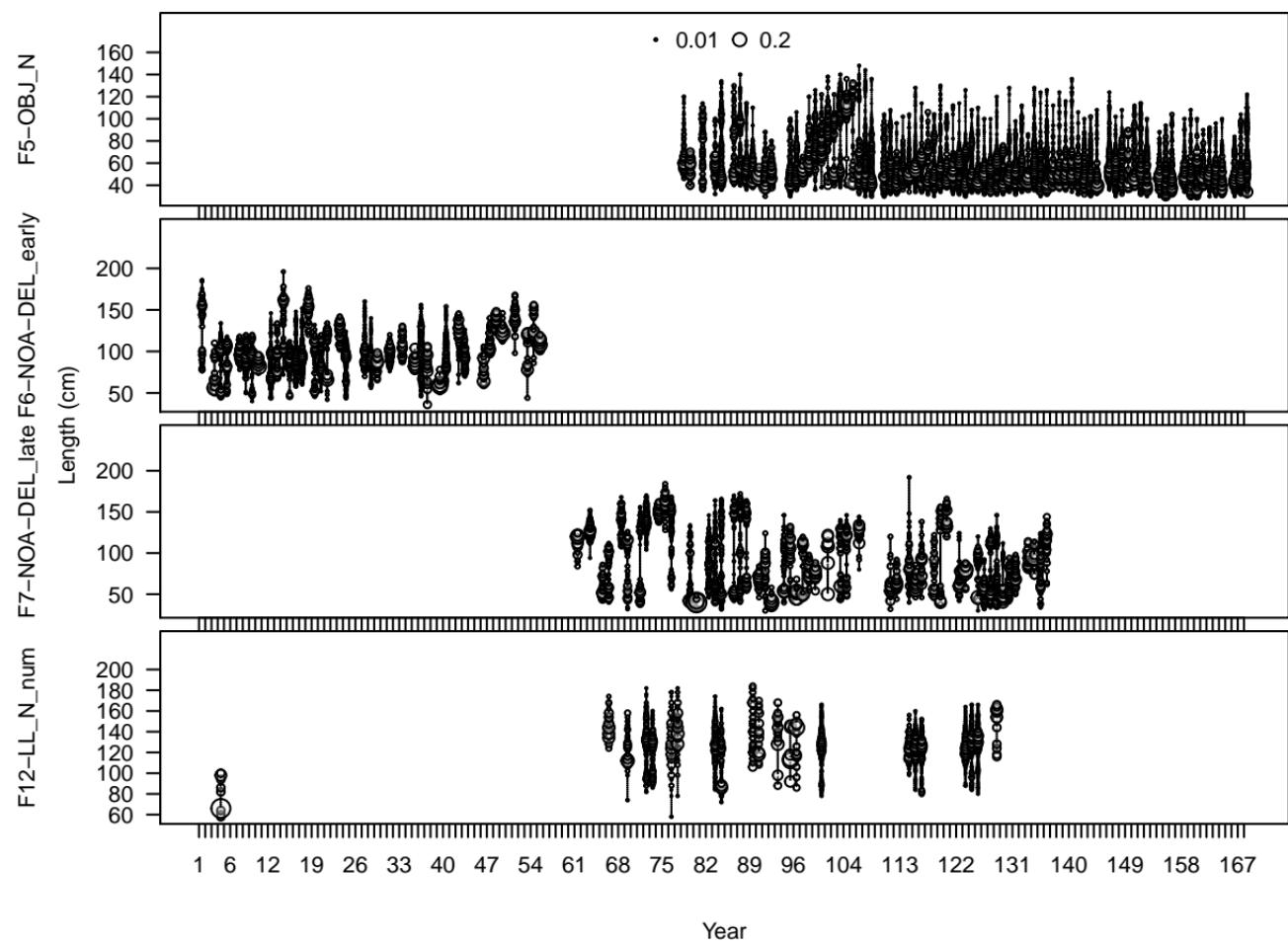


1 6 12 19 26 33 40 47 54 61 68 75 82 89 96 104 113 122 131 140 149 158 167

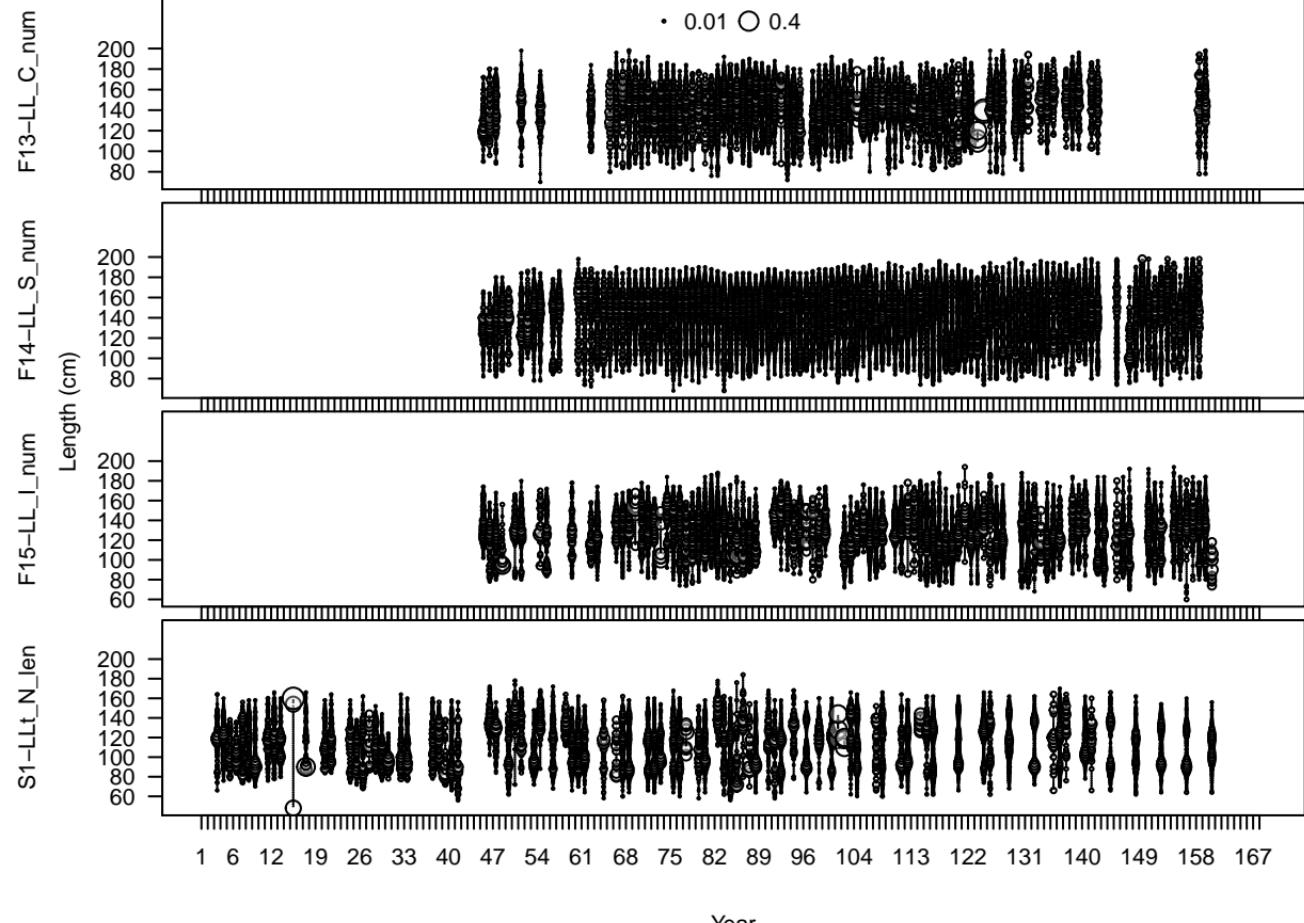
Year

• 0.01 ○ 0.4

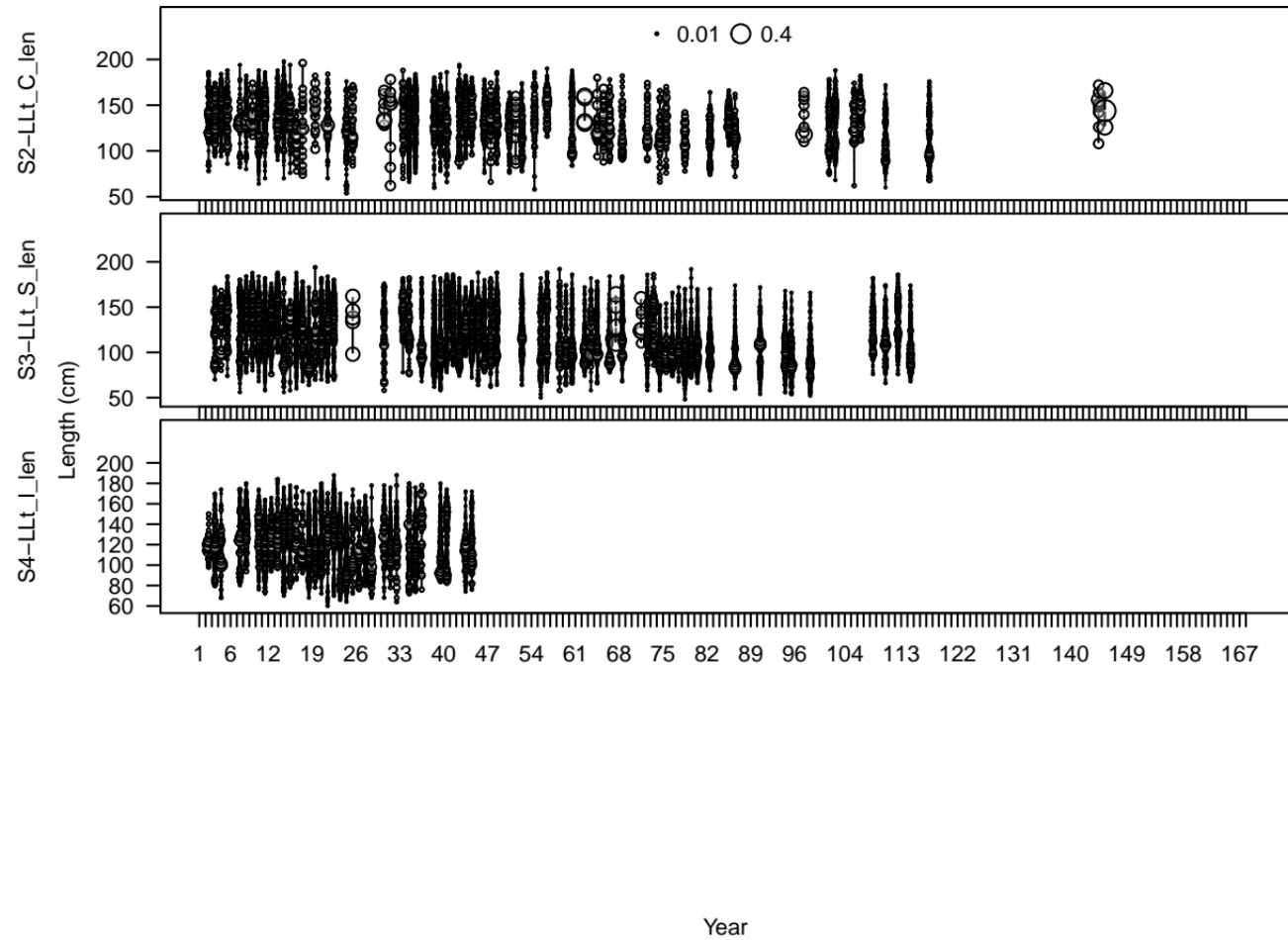
length comp data, sexes combined, whole catch, comparing across fleets



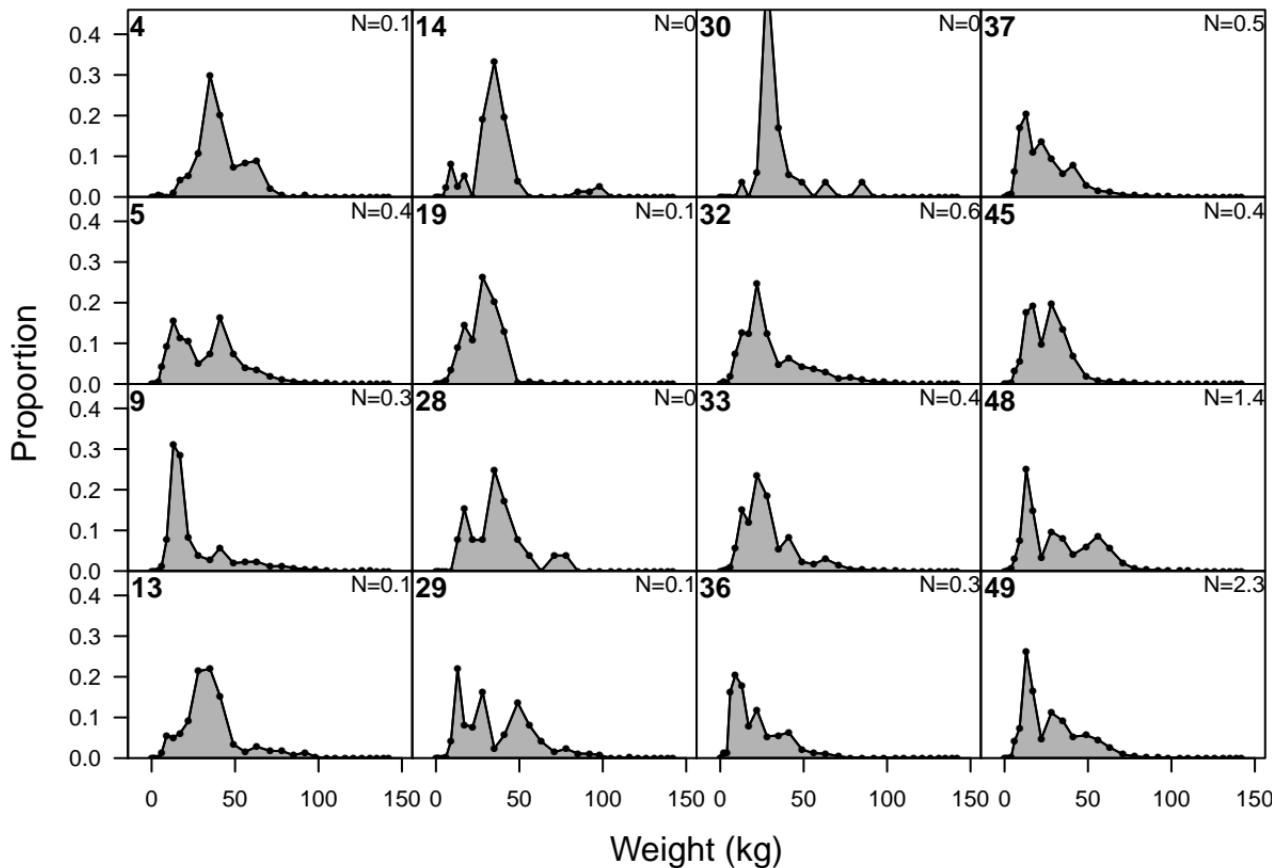
length comp data, sexes combined, whole catch, comparing across fleets



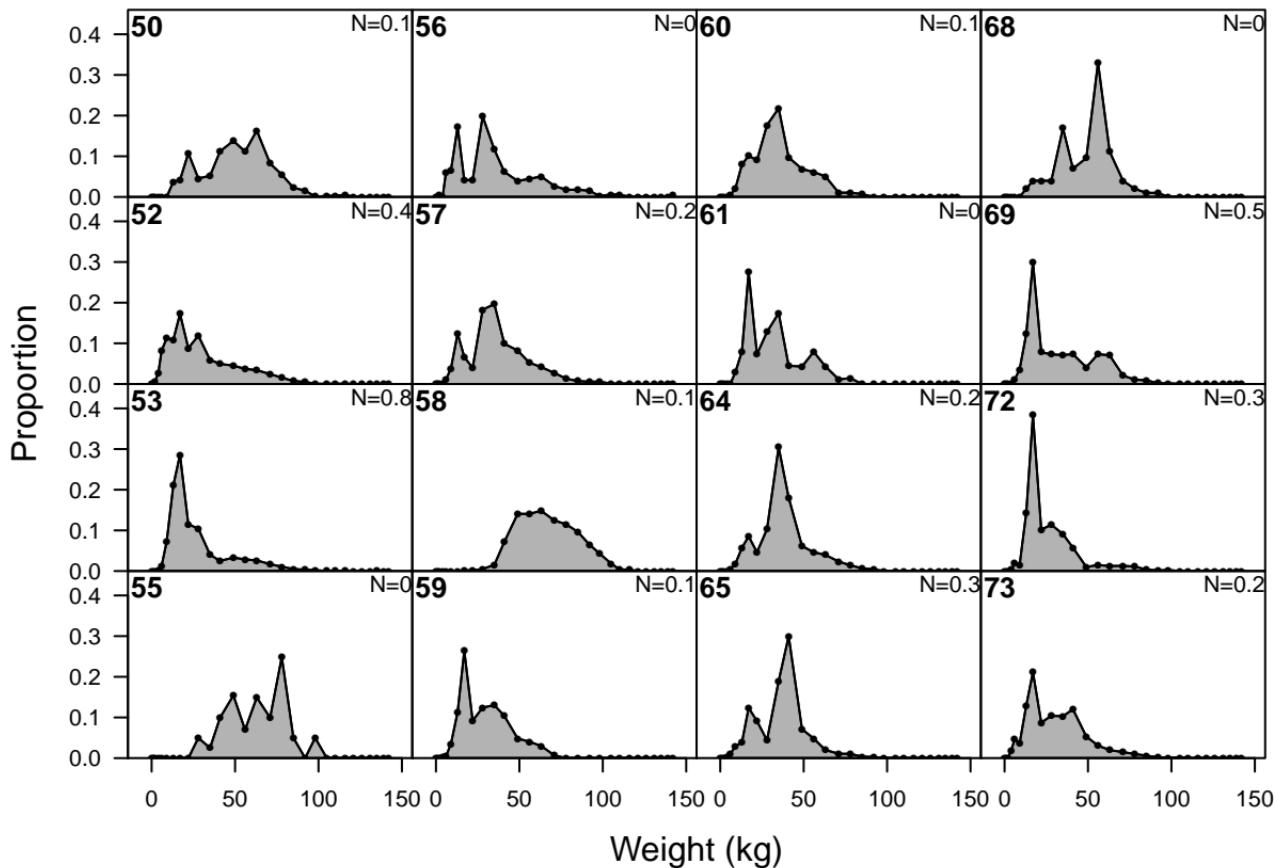
length comp data, sexes combined, whole catch, comparing across fleets



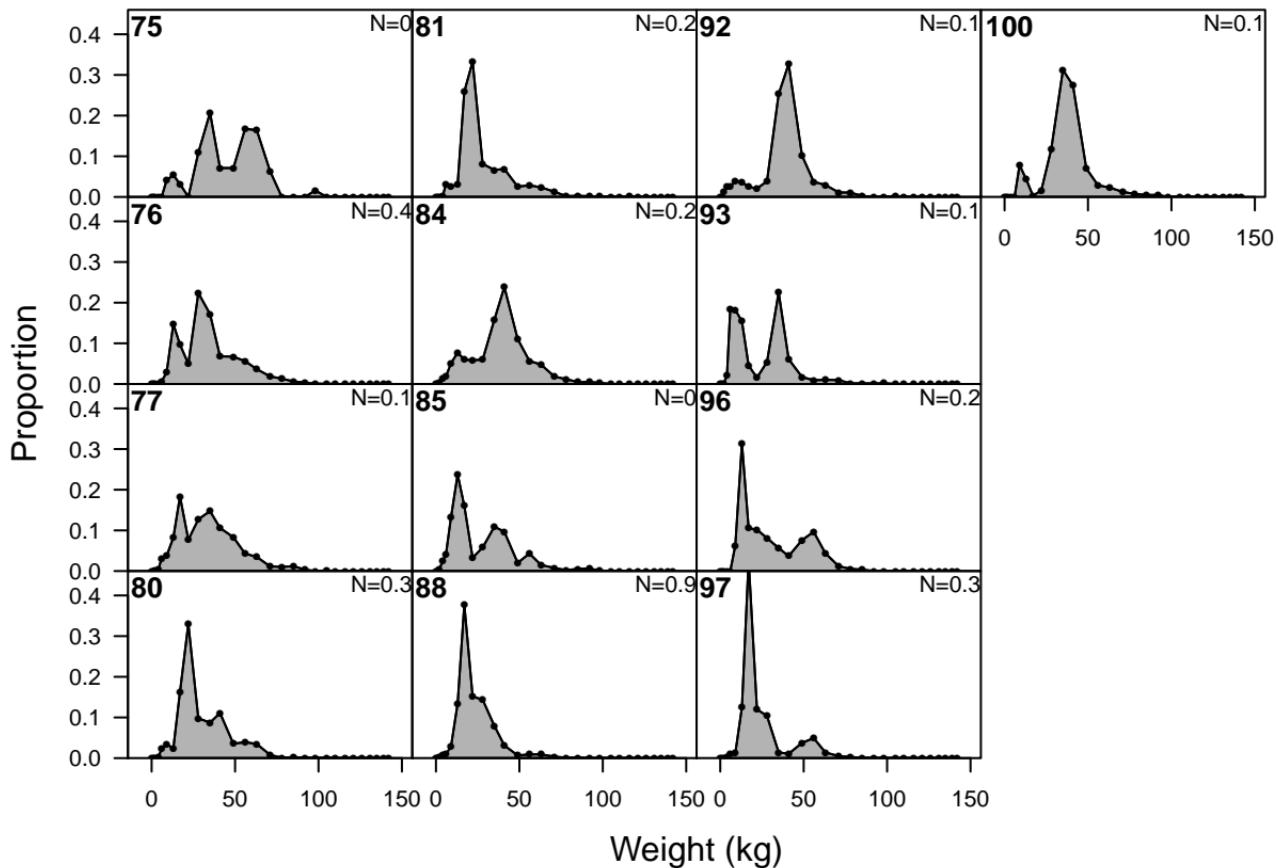
size comp data, whole catch, S5-LLc_N_w



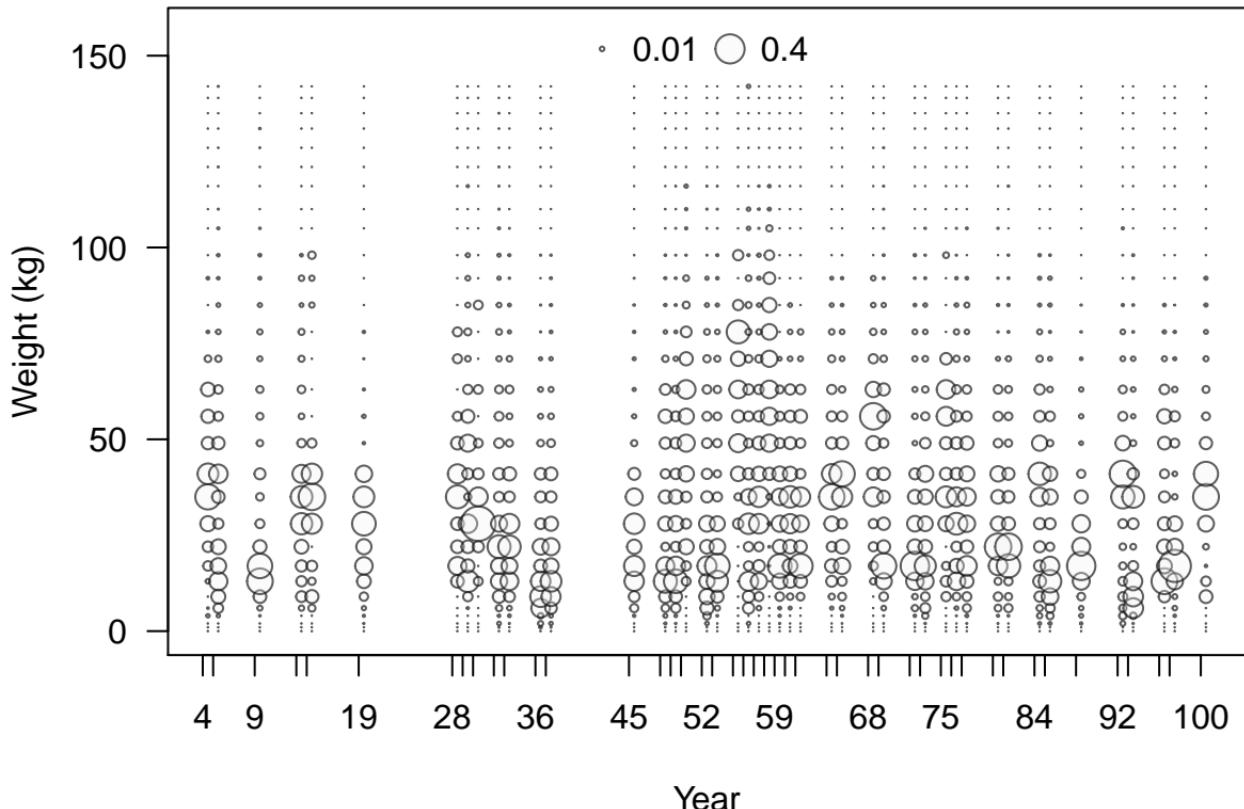
size comp data, whole catch, S5-LLc_N_w



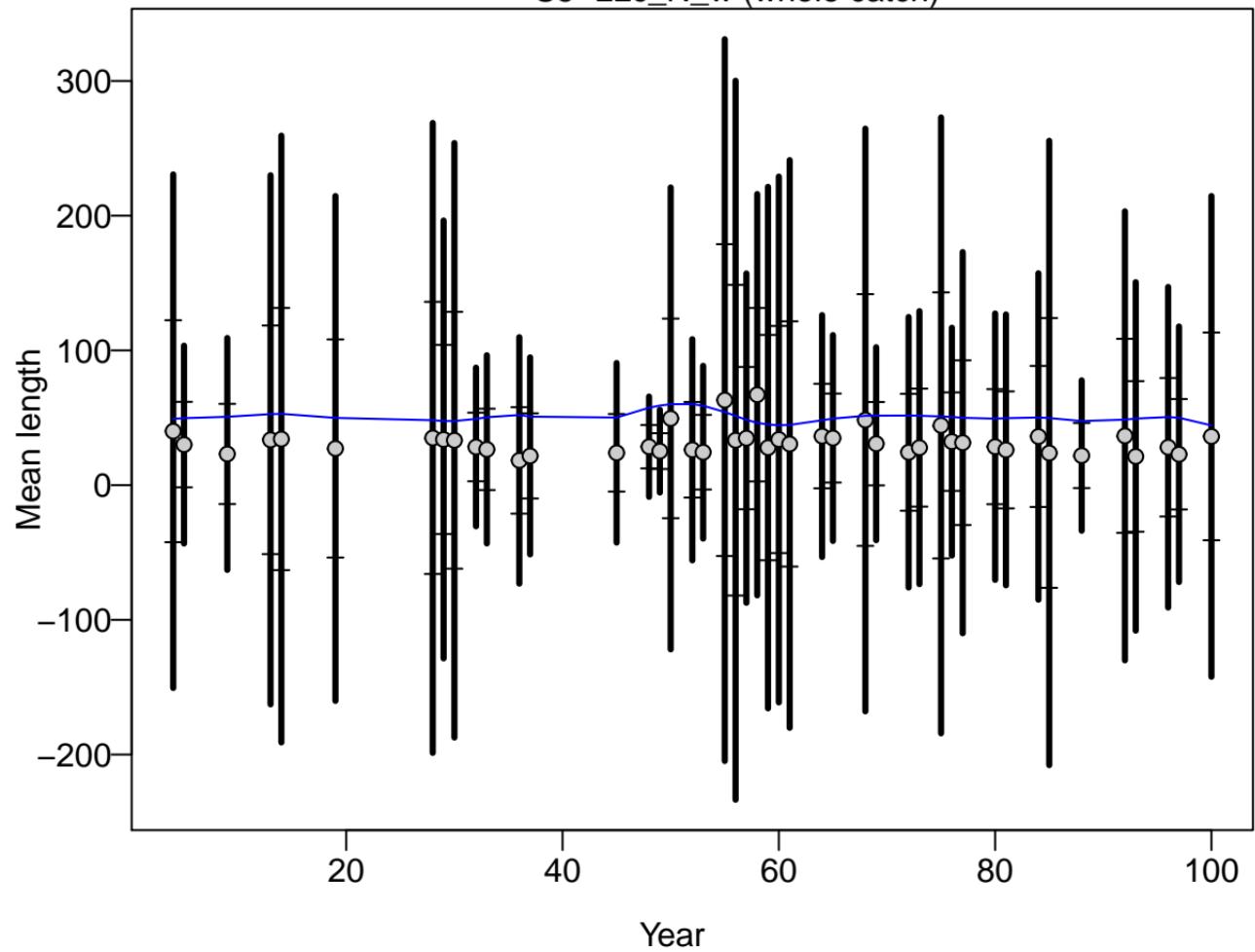
size comp data, whole catch, S5-LLc_N_w



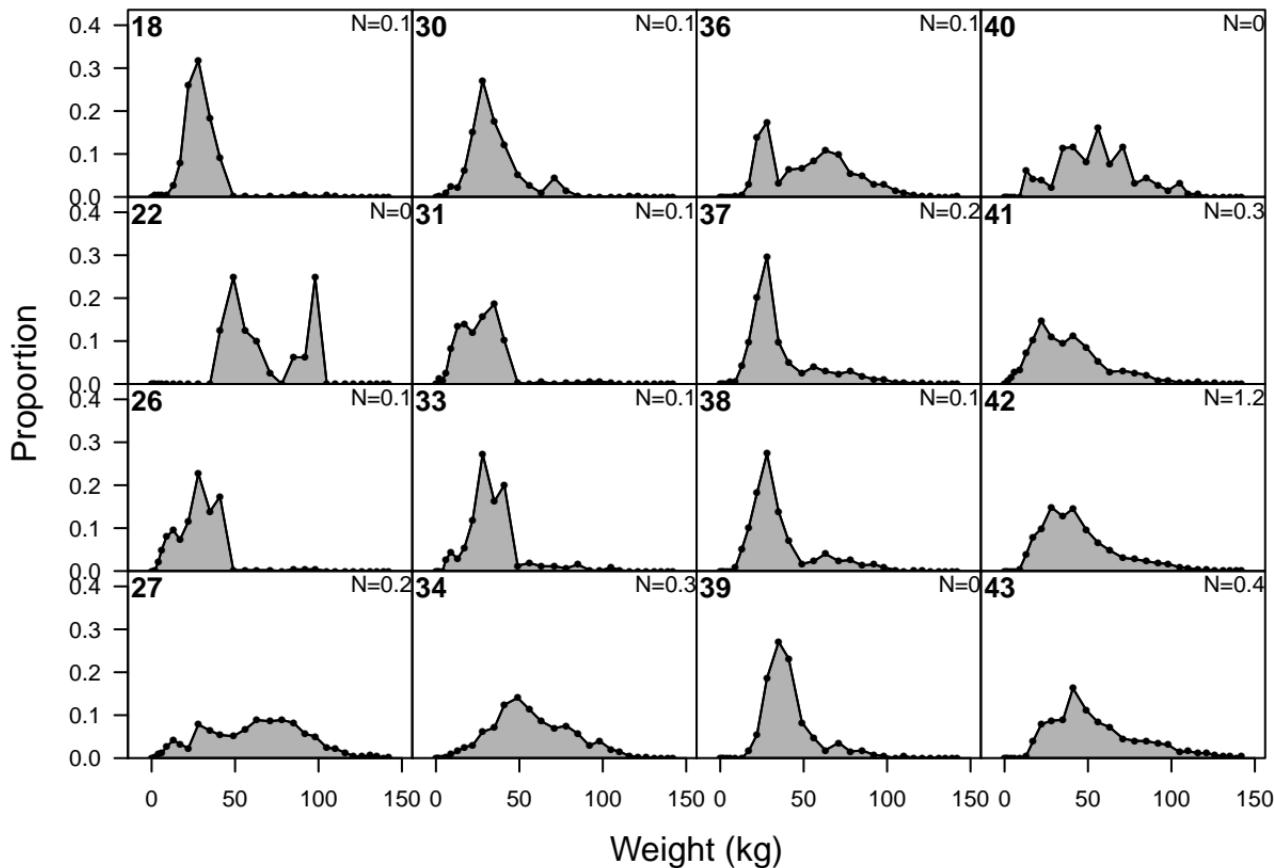
size comp data, whole catch, S5–LLc_N_w (max=0.56)



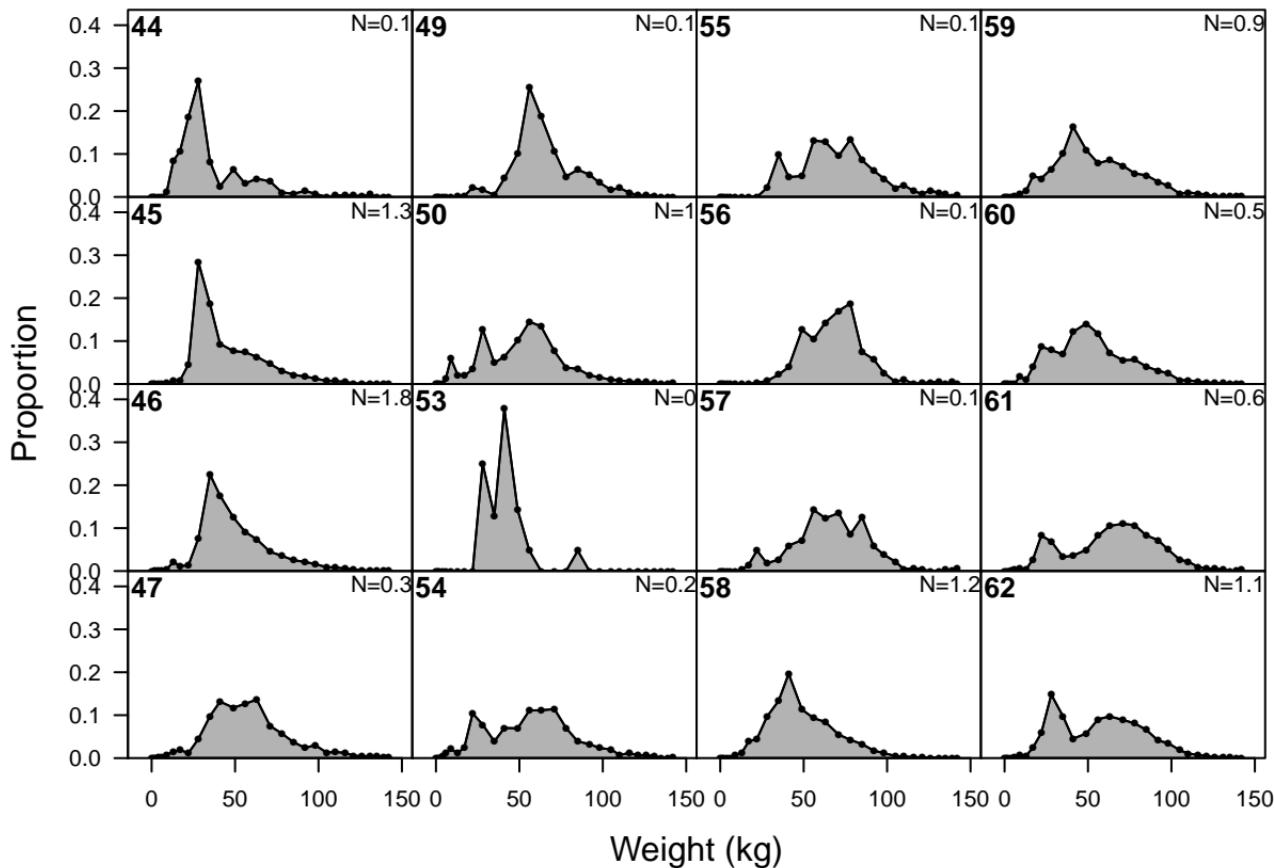
S5-LLc_N_w (whole catch)



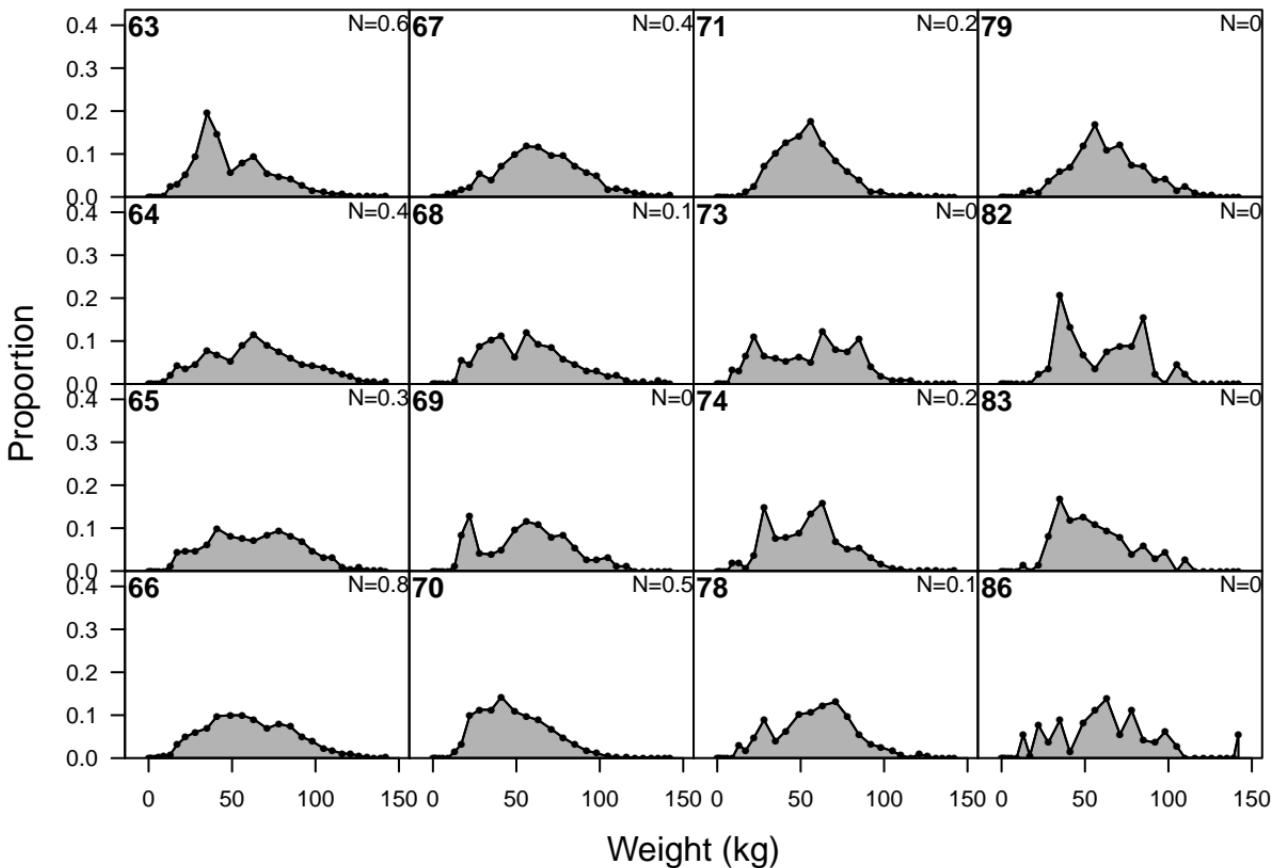
size comp data, whole catch, S6-LLc_C_w



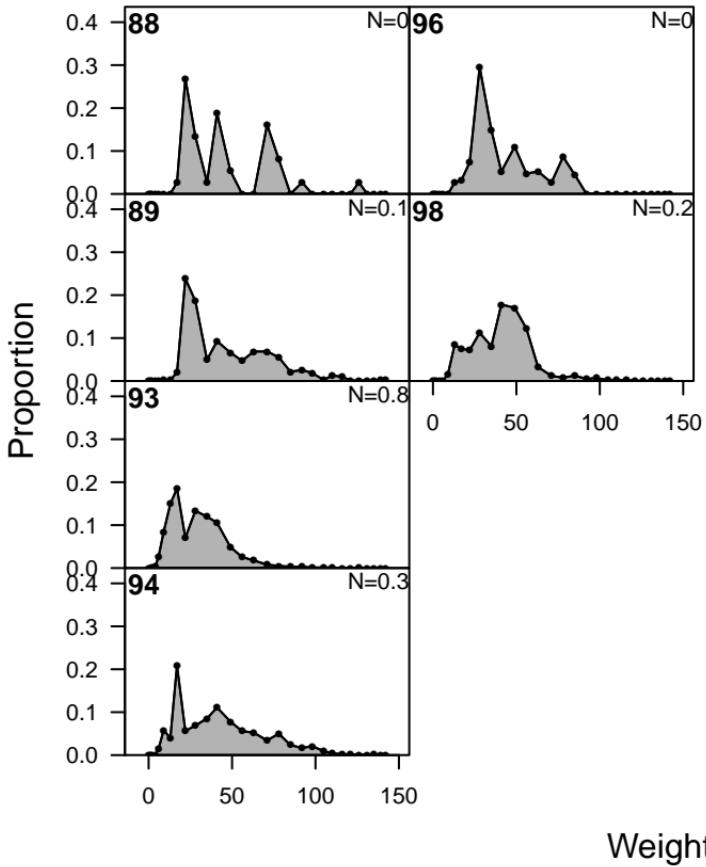
size comp data, whole catch, S6-LLc_C_w



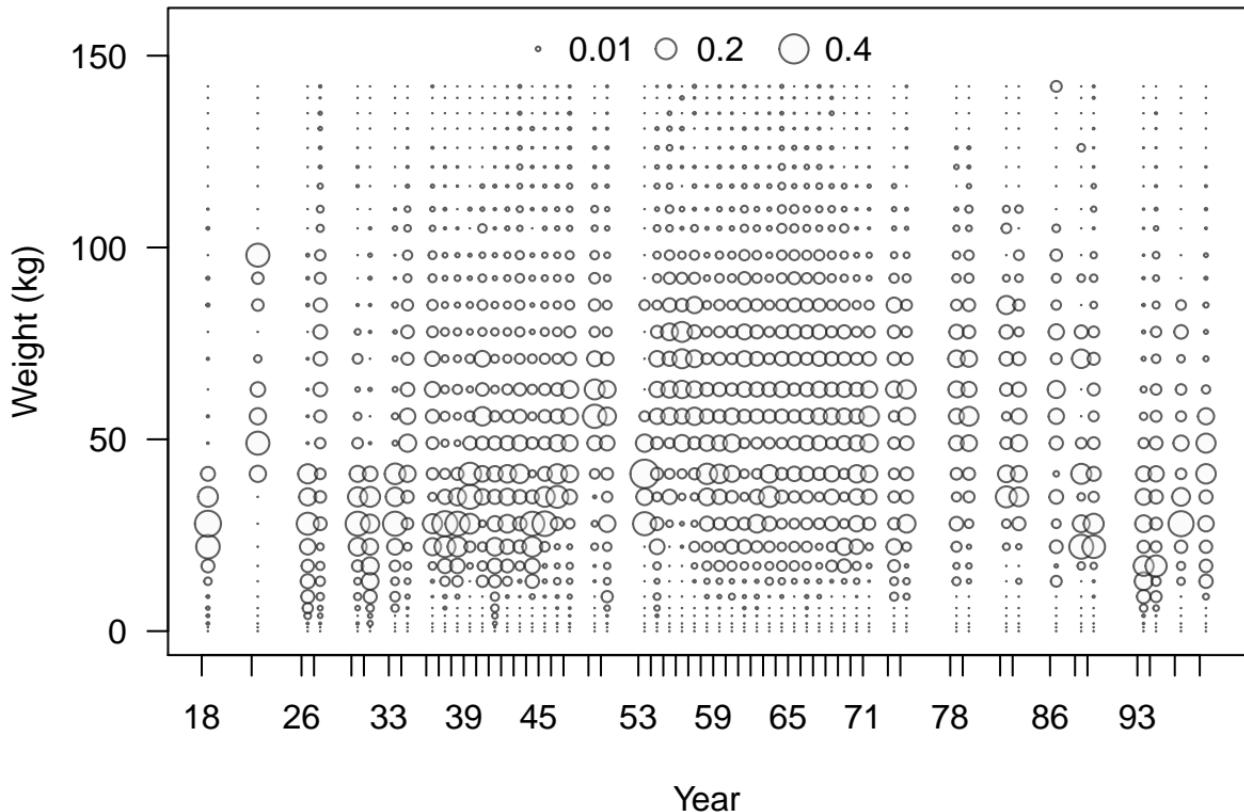
size comp data, whole catch, S6-LLc_C_w



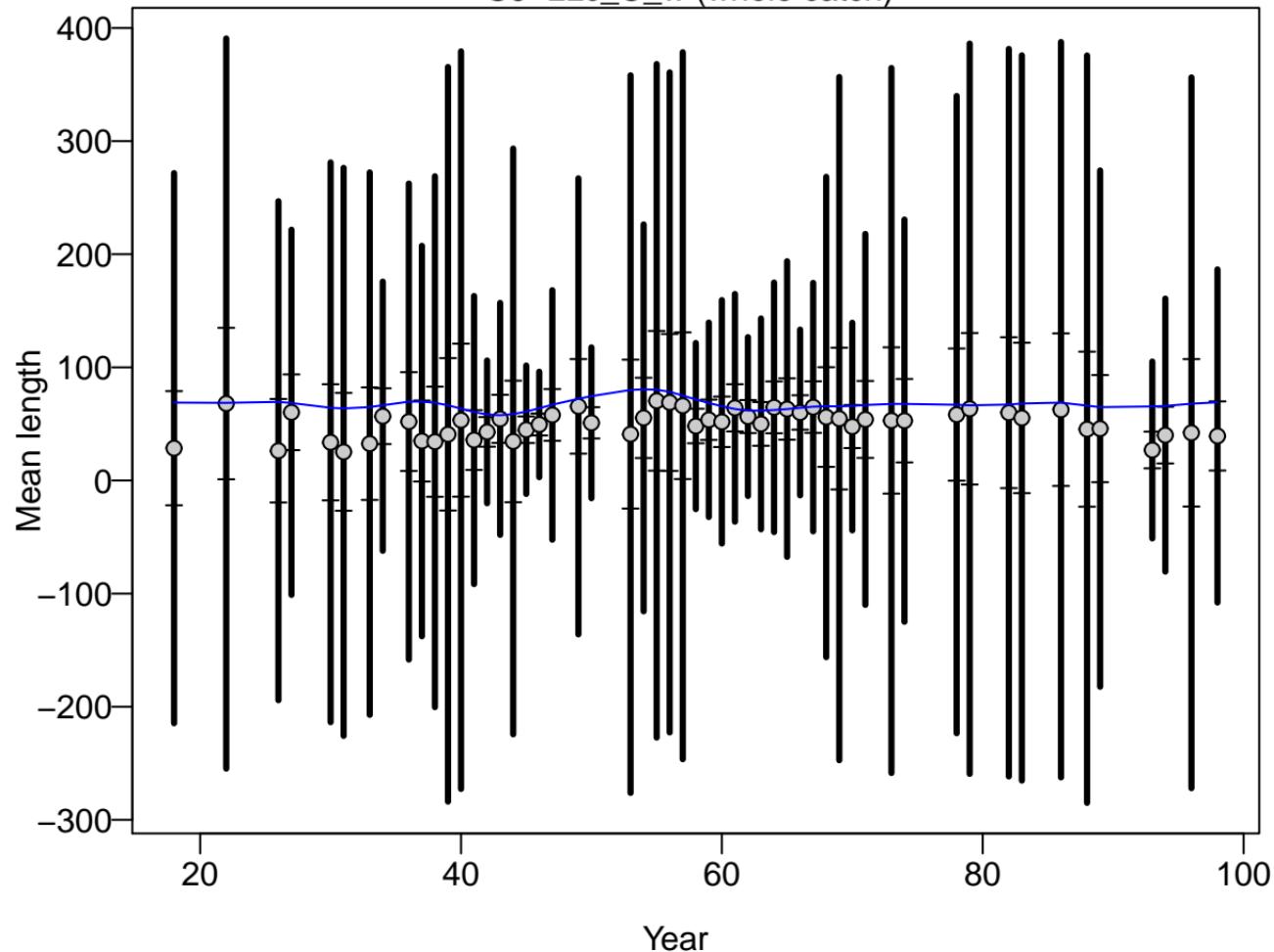
size comp data, whole catch, S6-LLc_C_w



size comp data, whole catch, S6–LLc_C_w (max=0.38)

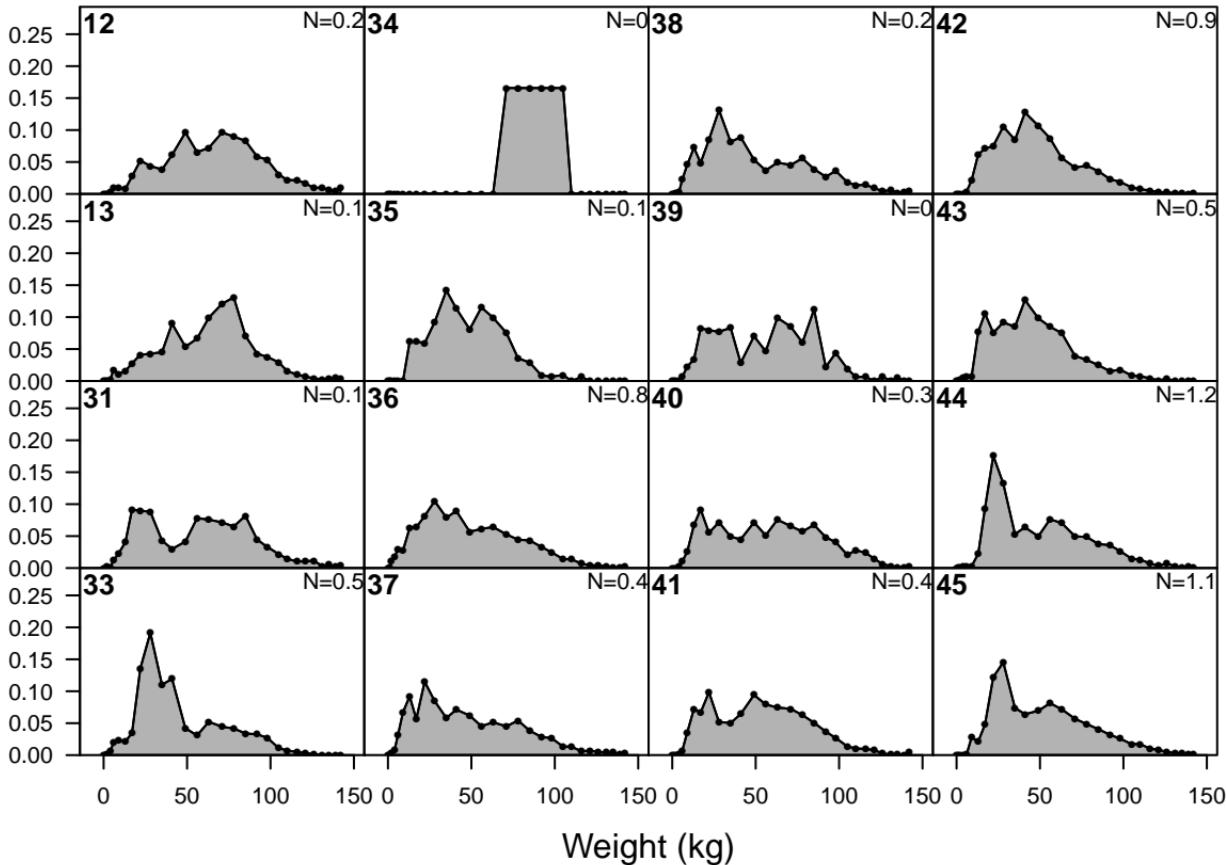


S6-LLc_C_w (whole catch)



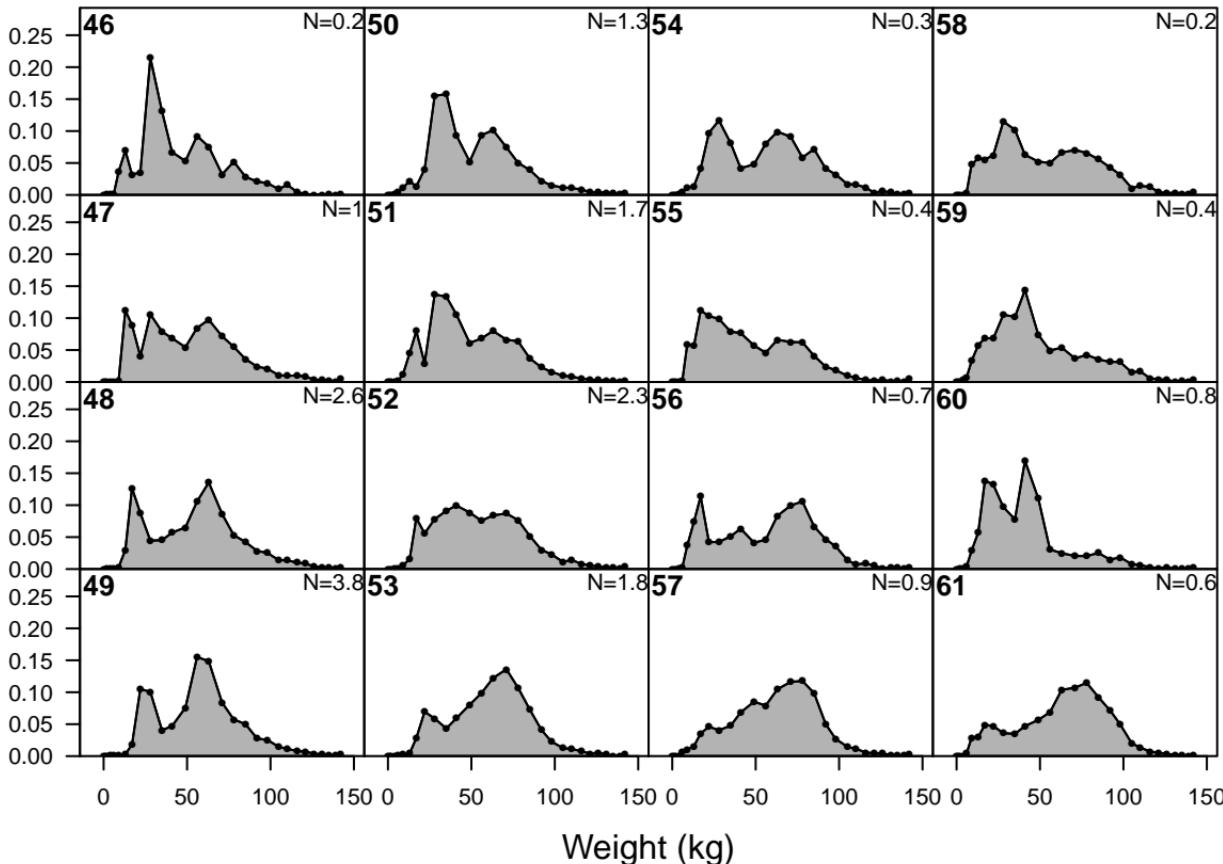
size comp data, whole catch, S7-LLc_S_w

Proportion



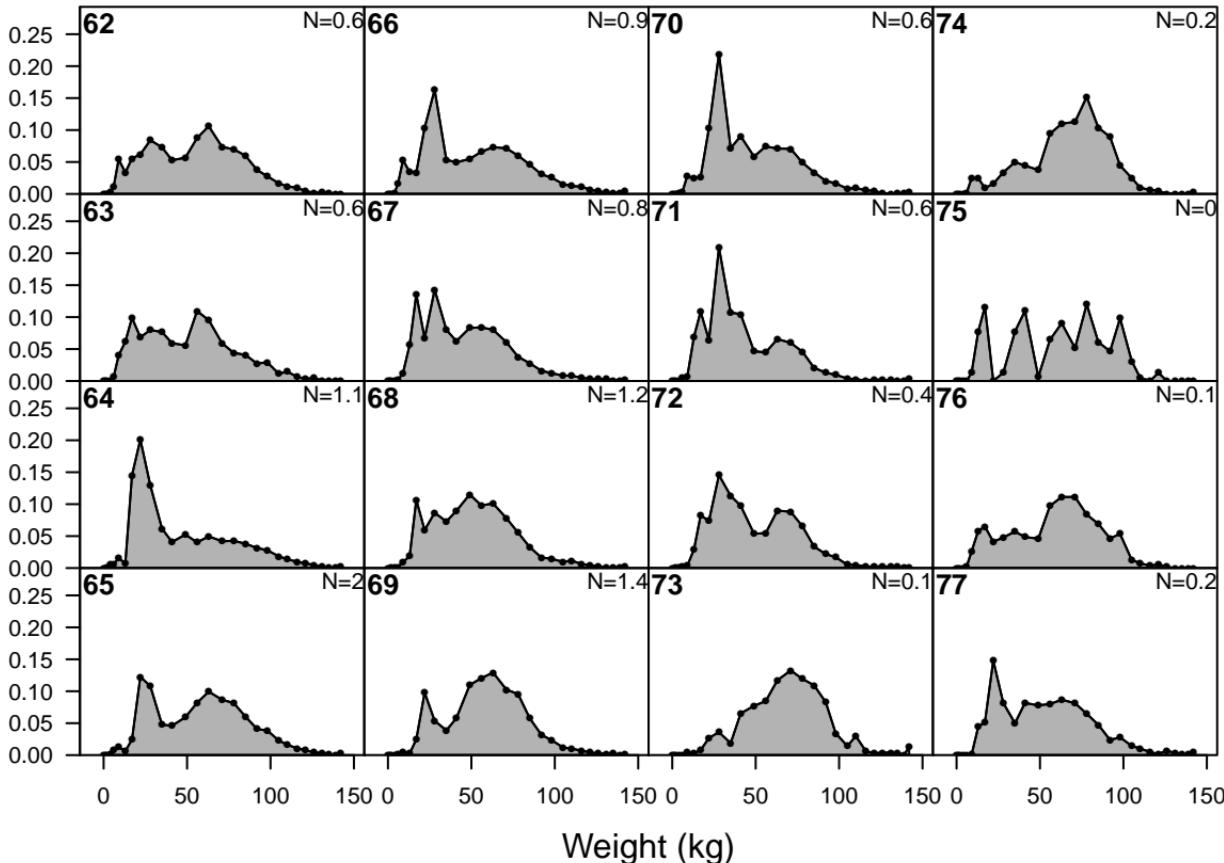
size comp data, whole catch, S7-LLc_S_w

Proportion



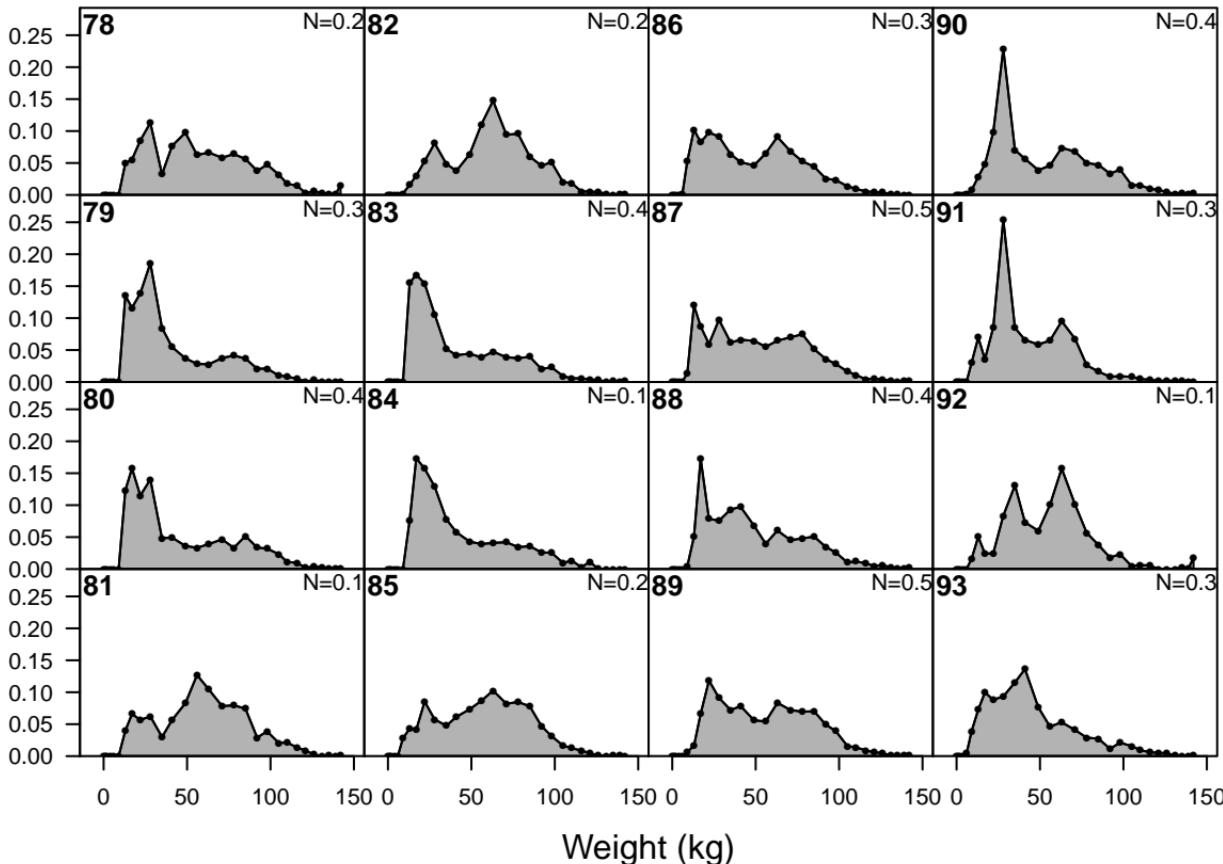
size comp data, whole catch, S7-LLc_S_w

Proportion



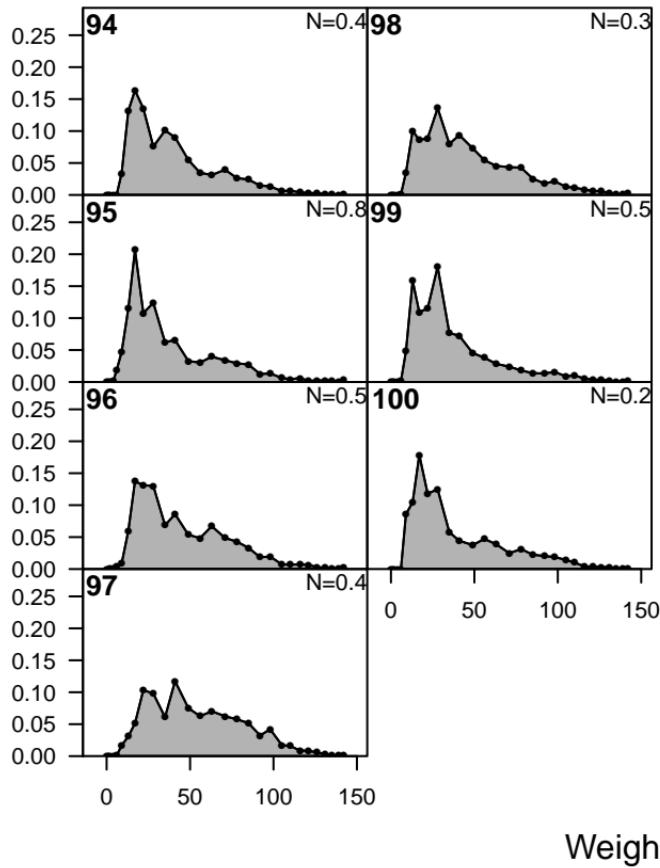
size comp data, whole catch, S7-LLc_S_w

Proportion

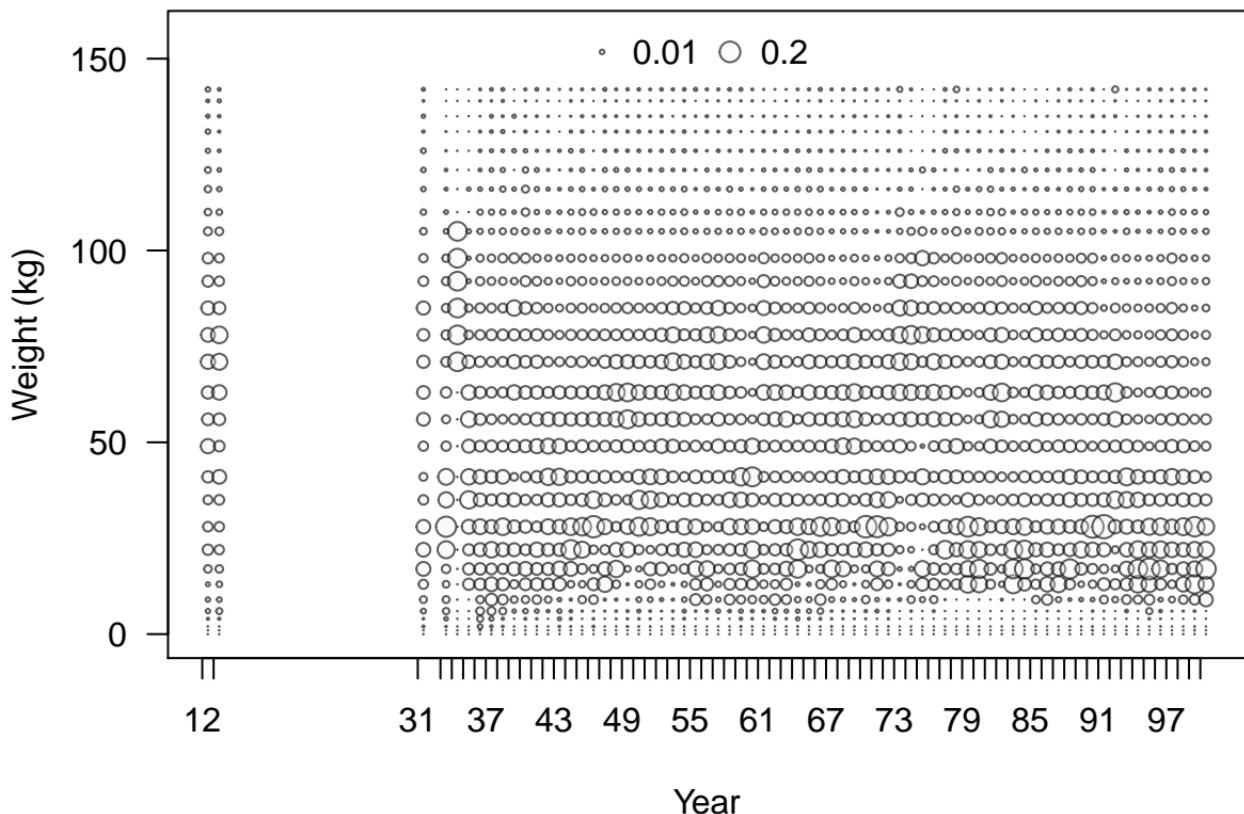


size comp data, whole catch, S7-LLc_S_w

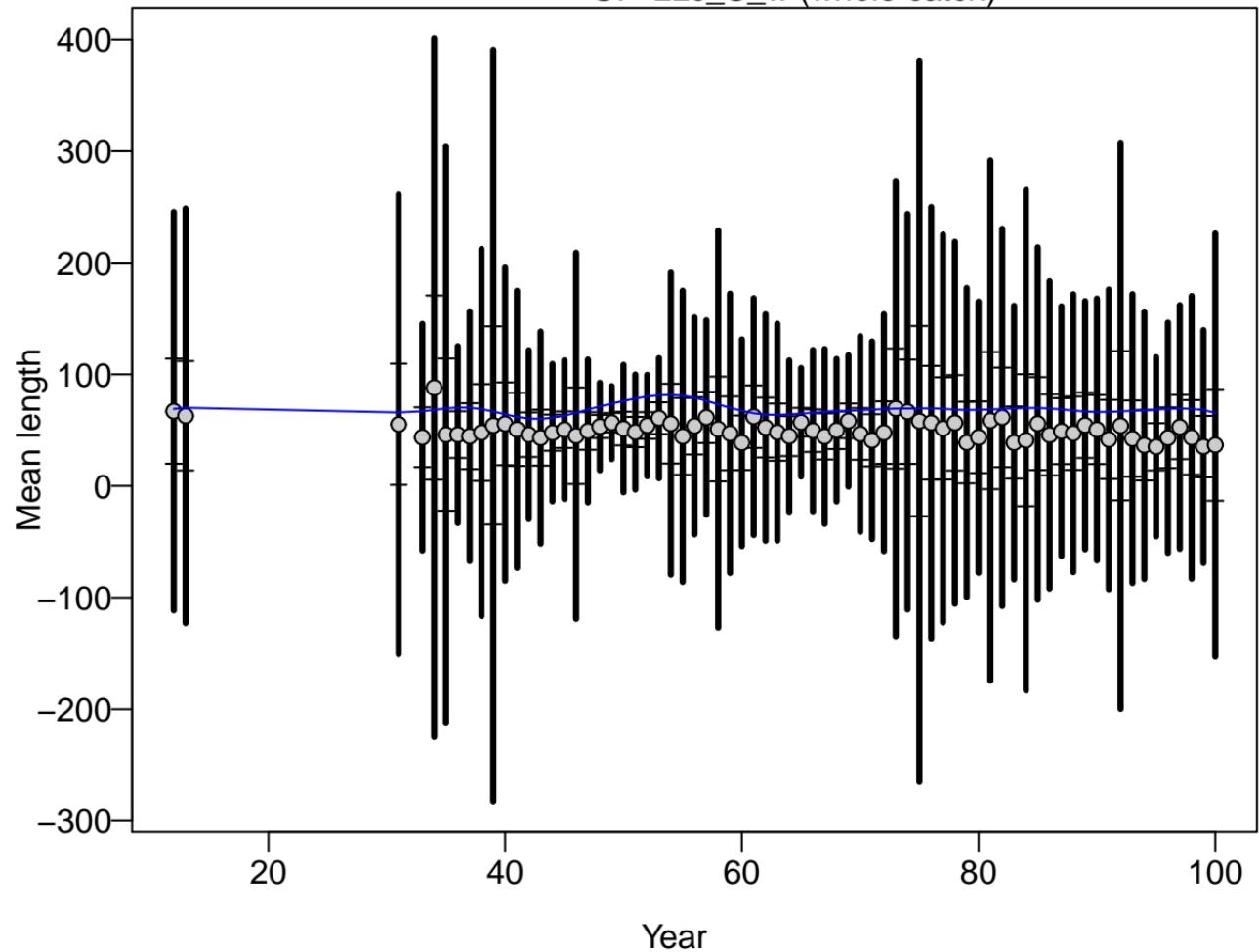
Proportion



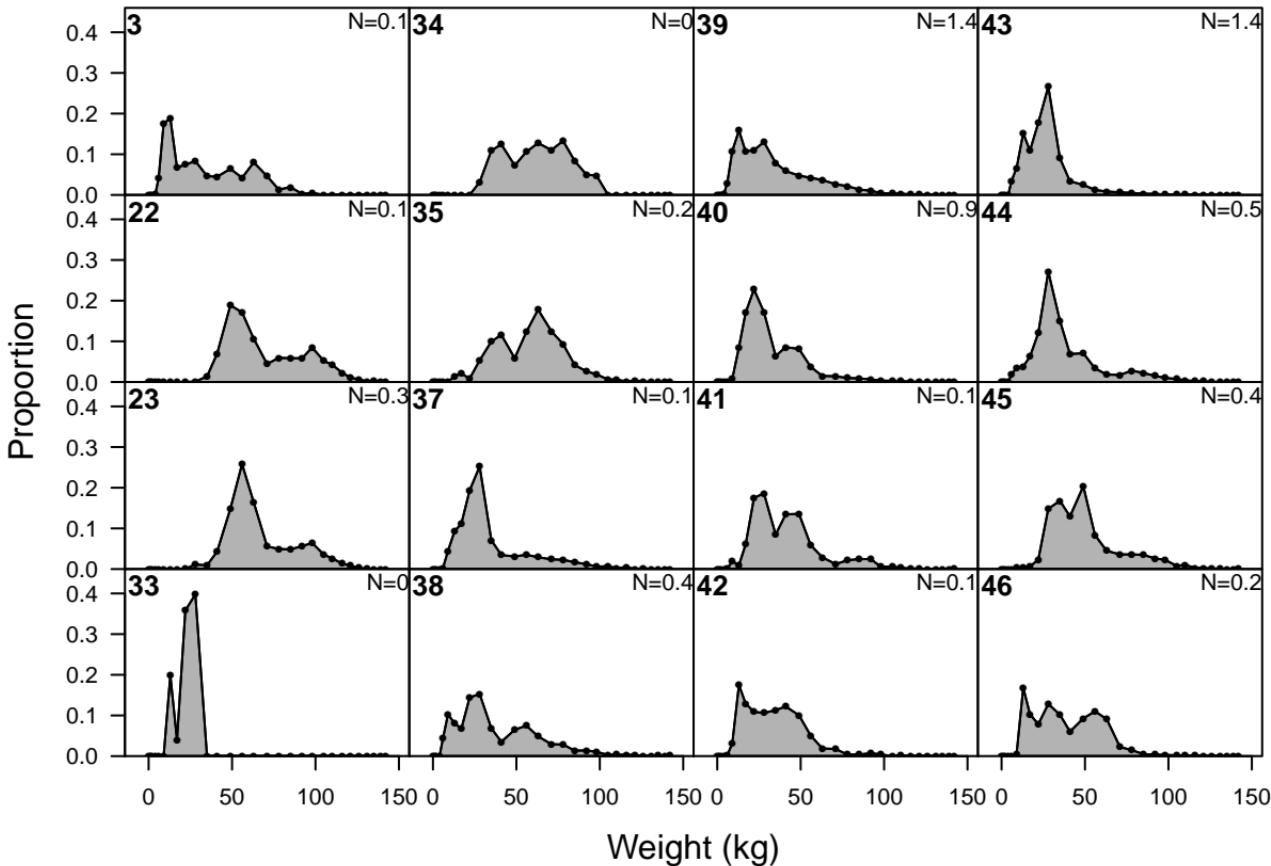
size comp data, whole catch, S7–LLc_S_w (max=0.25)



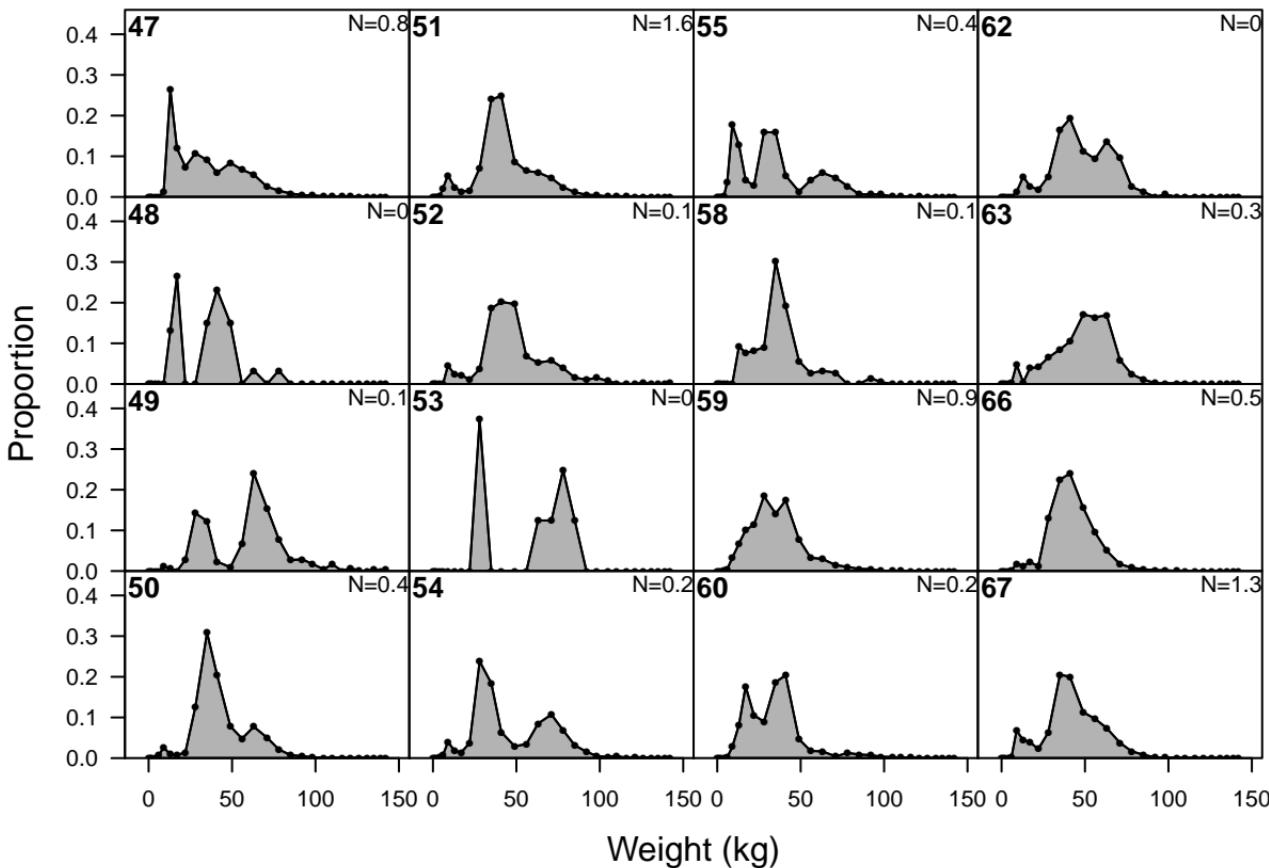
S7-LLc_S_w (whole catch)



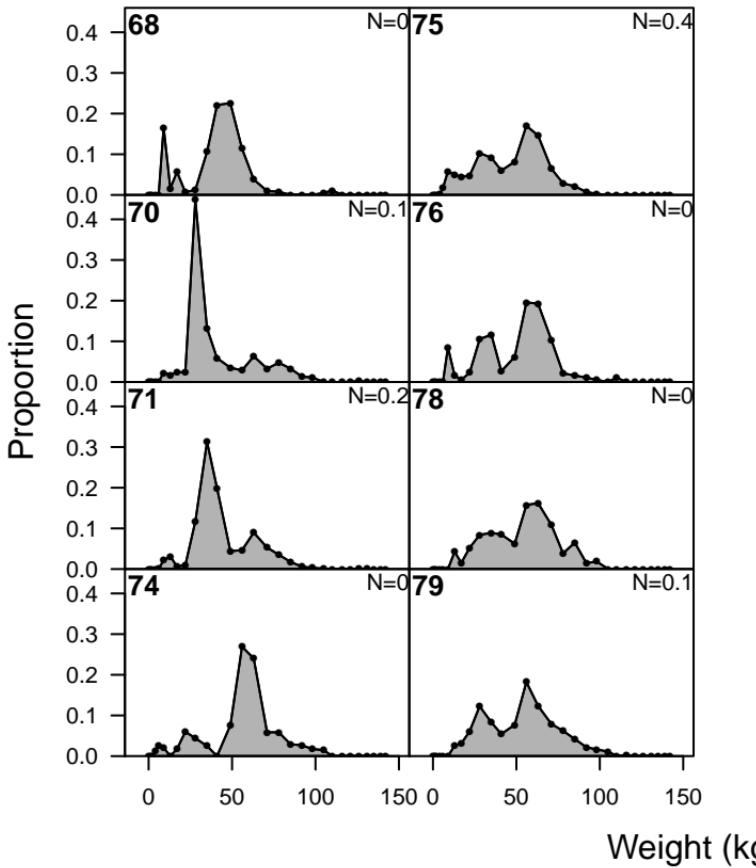
size comp data, whole catch, S8-LLc_I_w



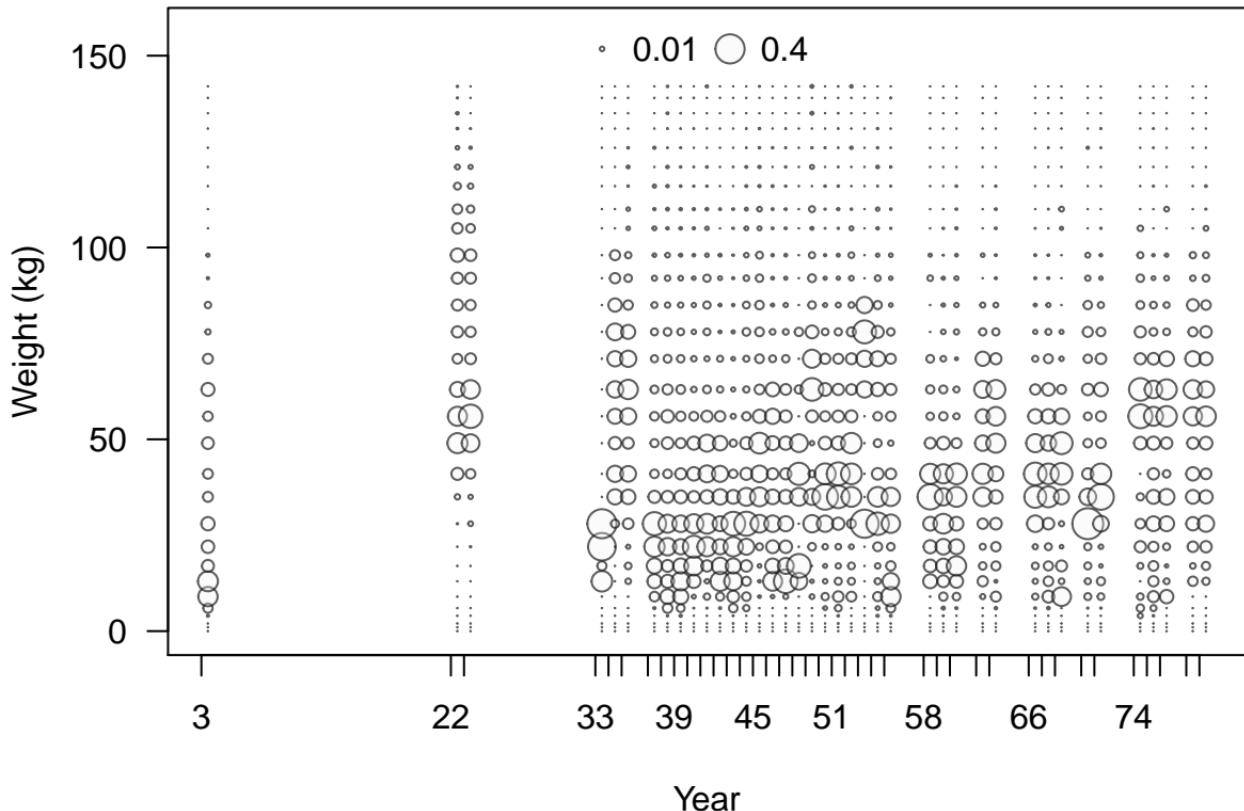
size comp data, whole catch, S8-LLc_I_w



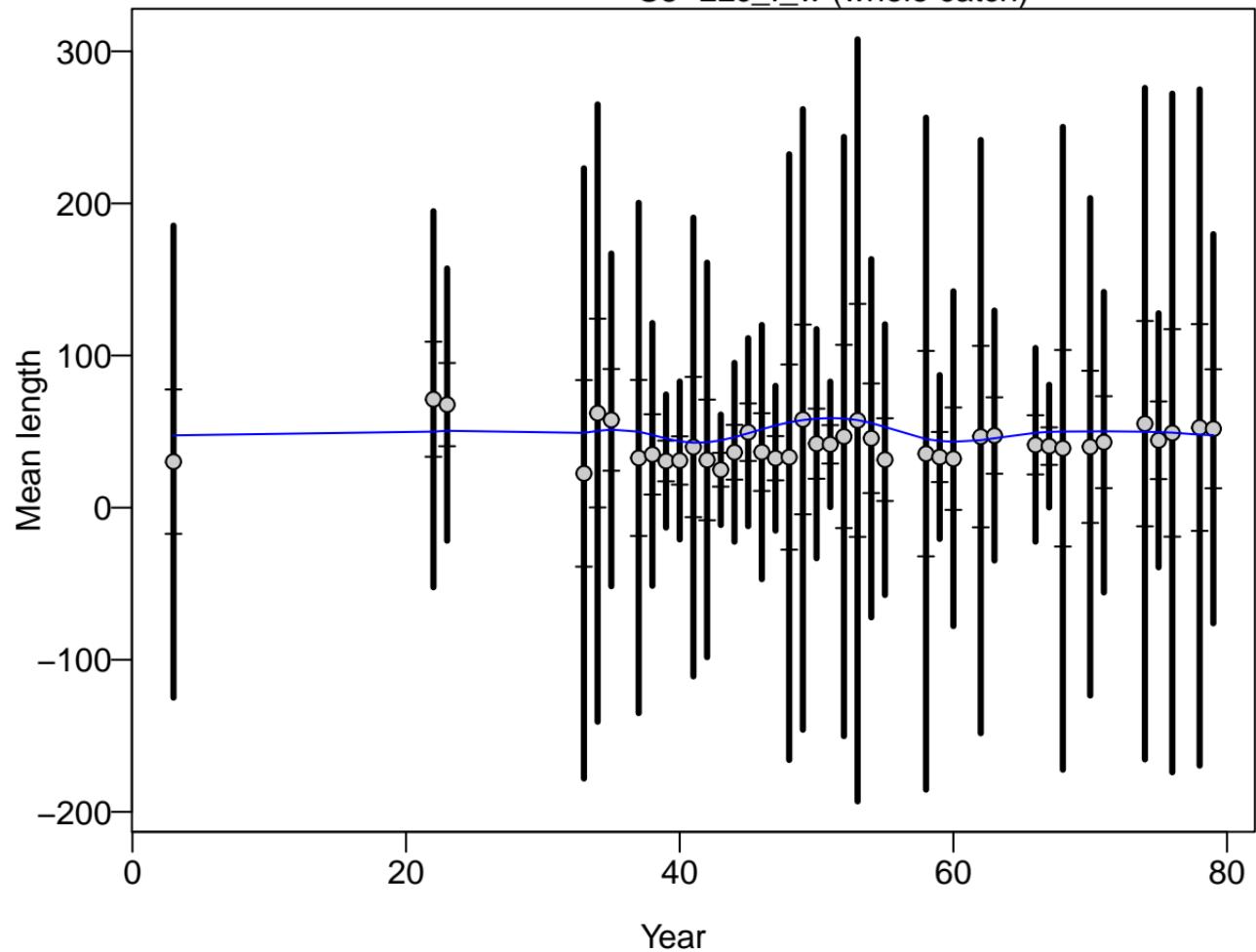
size comp data, whole catch, S8-LLc_I_w



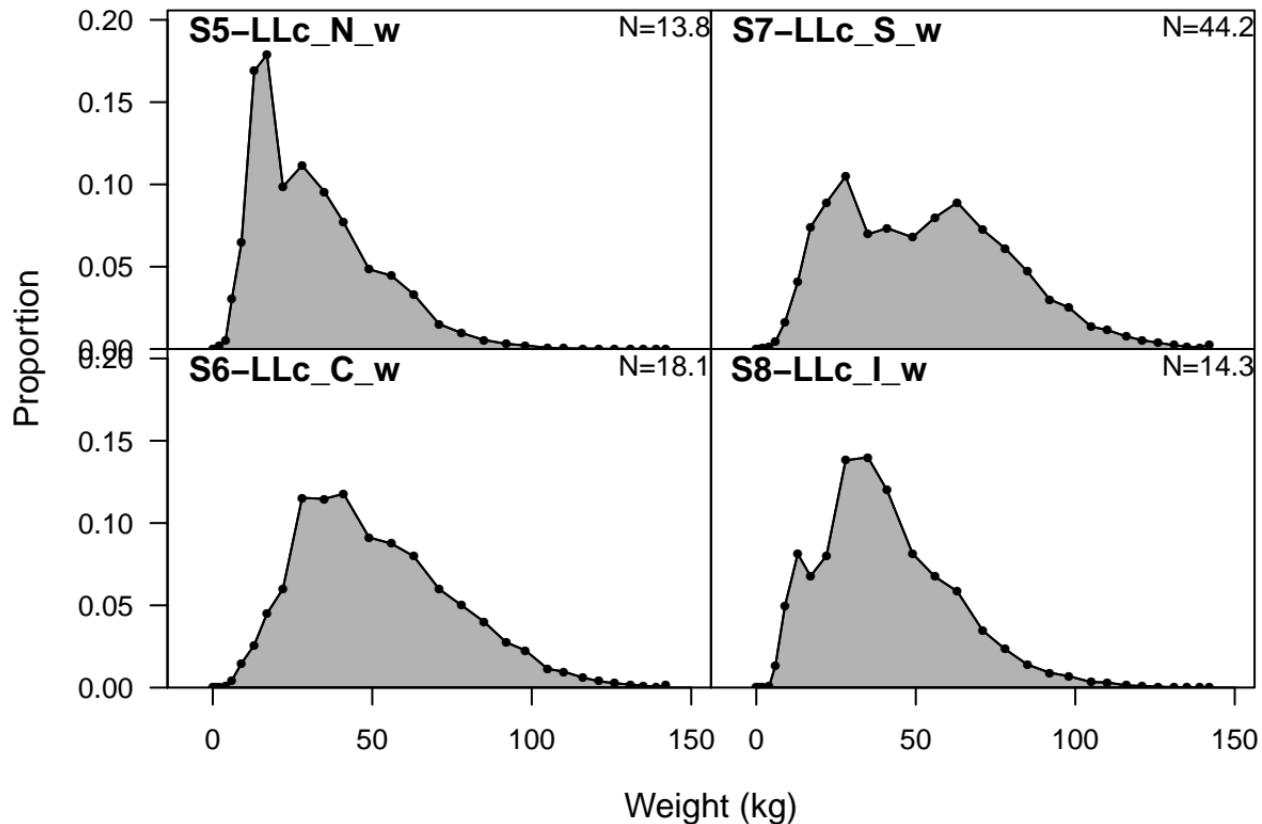
size comp data, whole catch, S8-LLc_l_w (max=0.45)



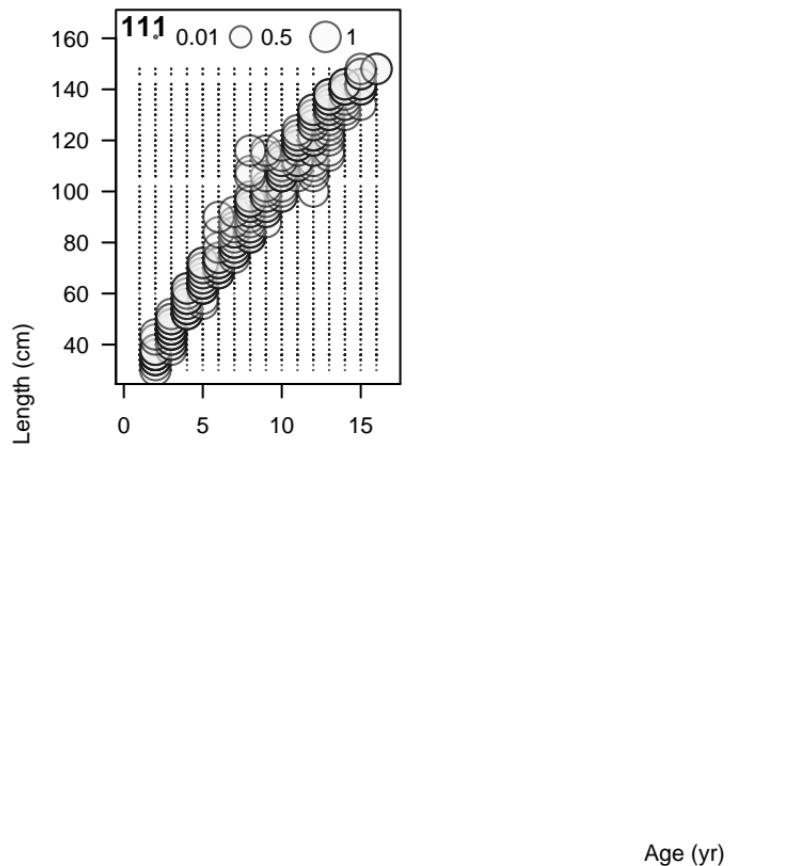
S8-LLc_I_w (whole catch)



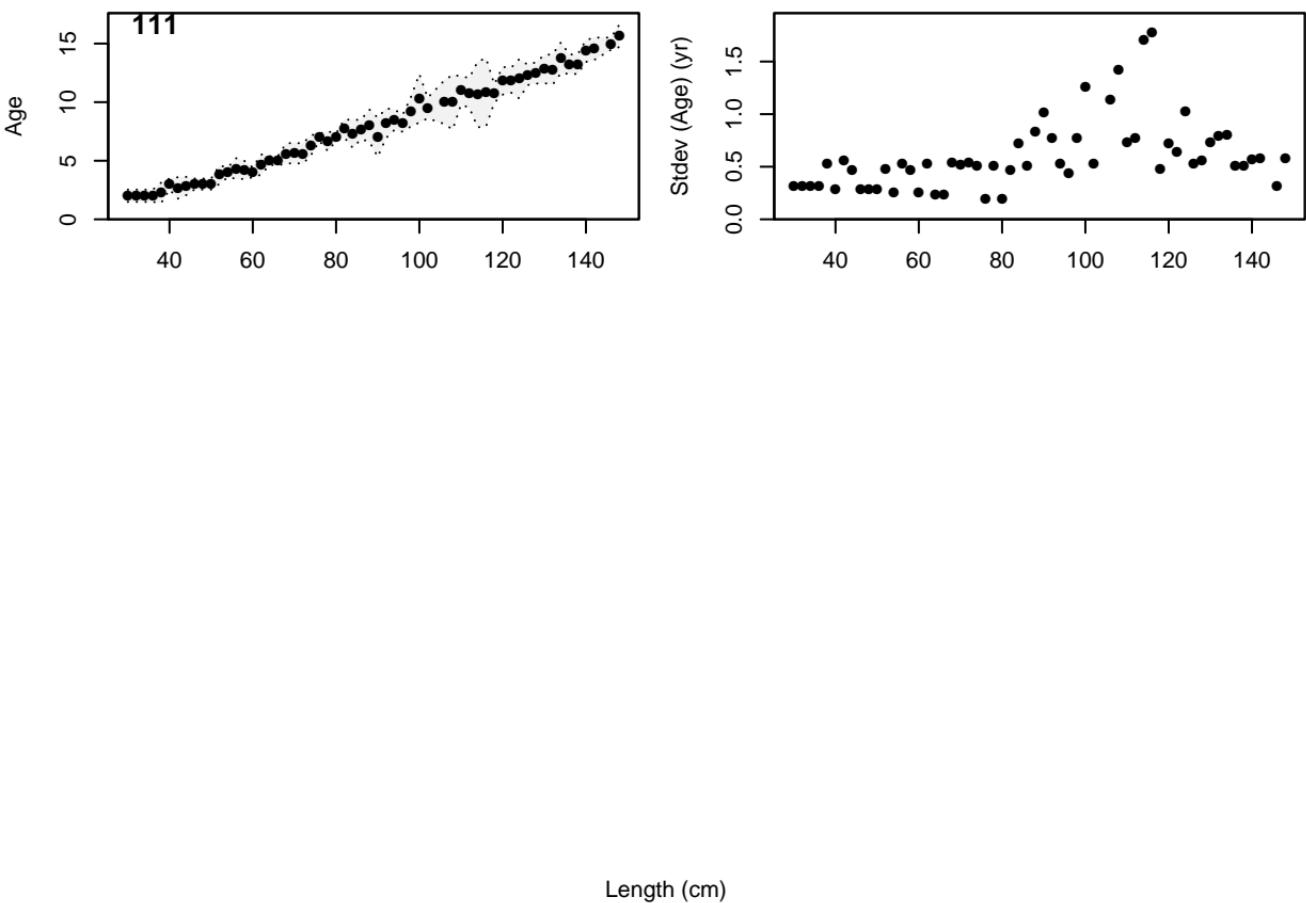
size comp data, whole catch, aggregated across time by fleet



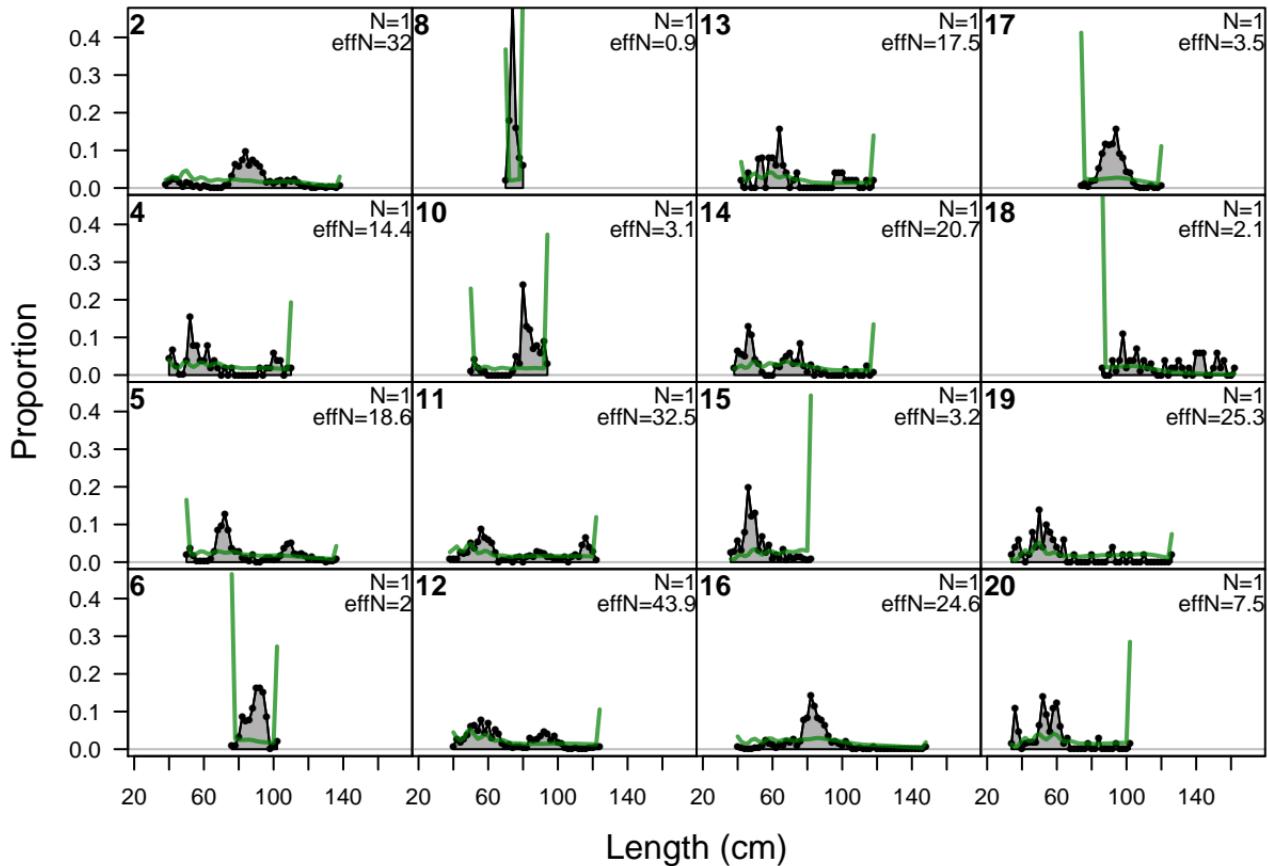
conditional age-at-length data, whole catch, F3-OBJ_C (max=1)



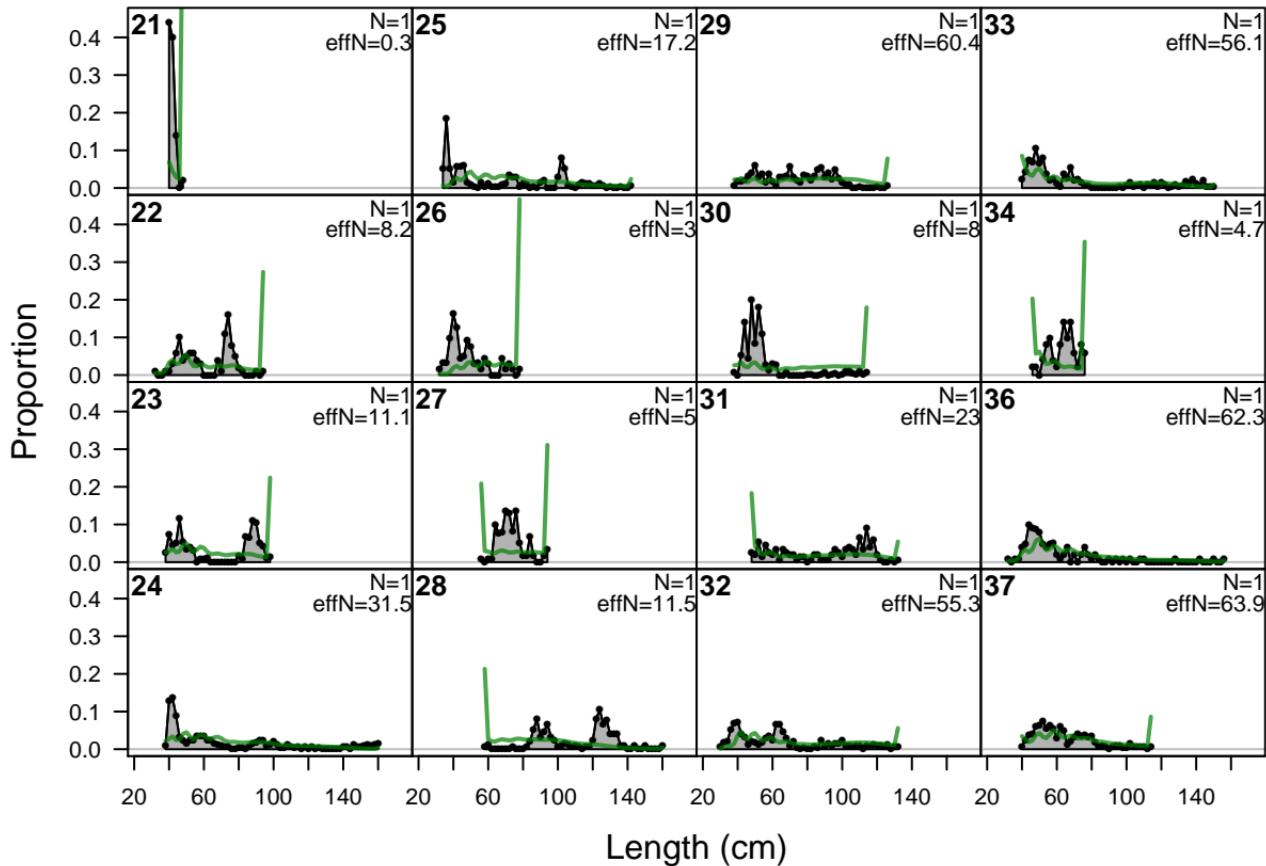
Conditional AAL plot, whole catch, F3-OBJ_C



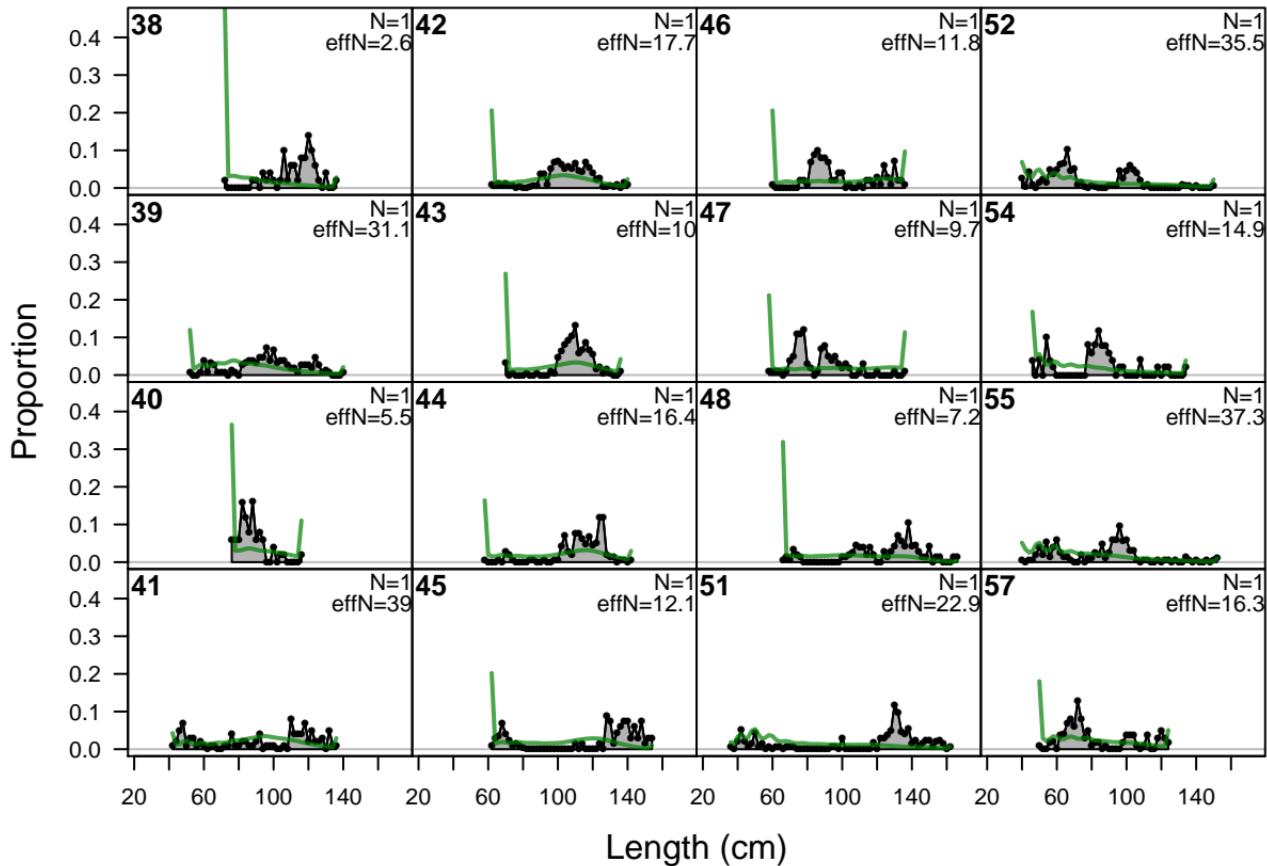
length comps, whole catch, F1–OBJ_early



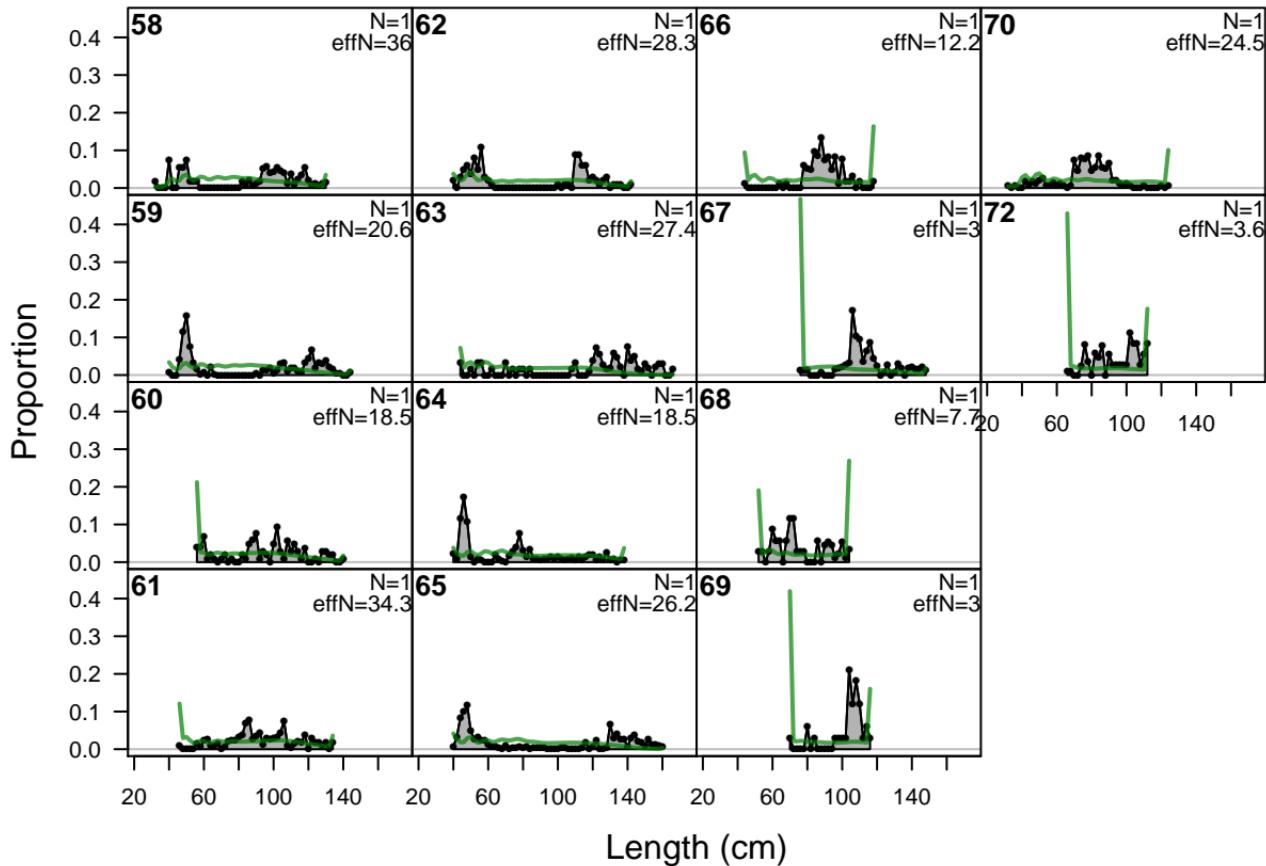
length comps, whole catch, F1–OBJ_early

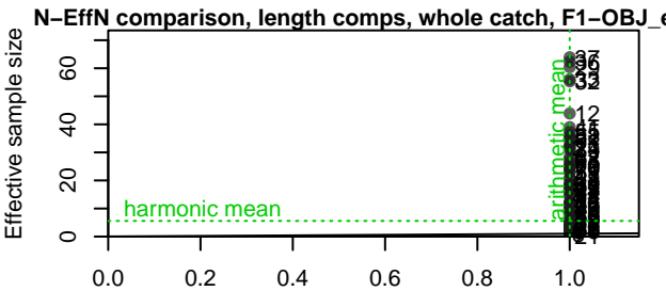
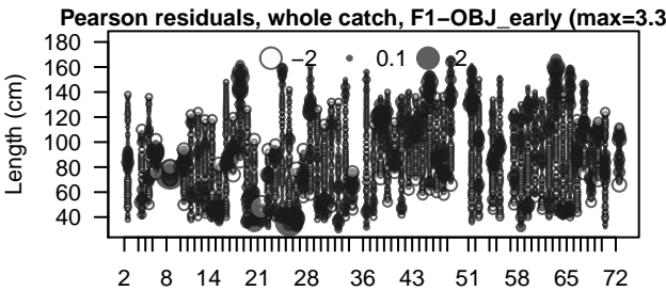


length comps, whole catch, F1–OBJ_early



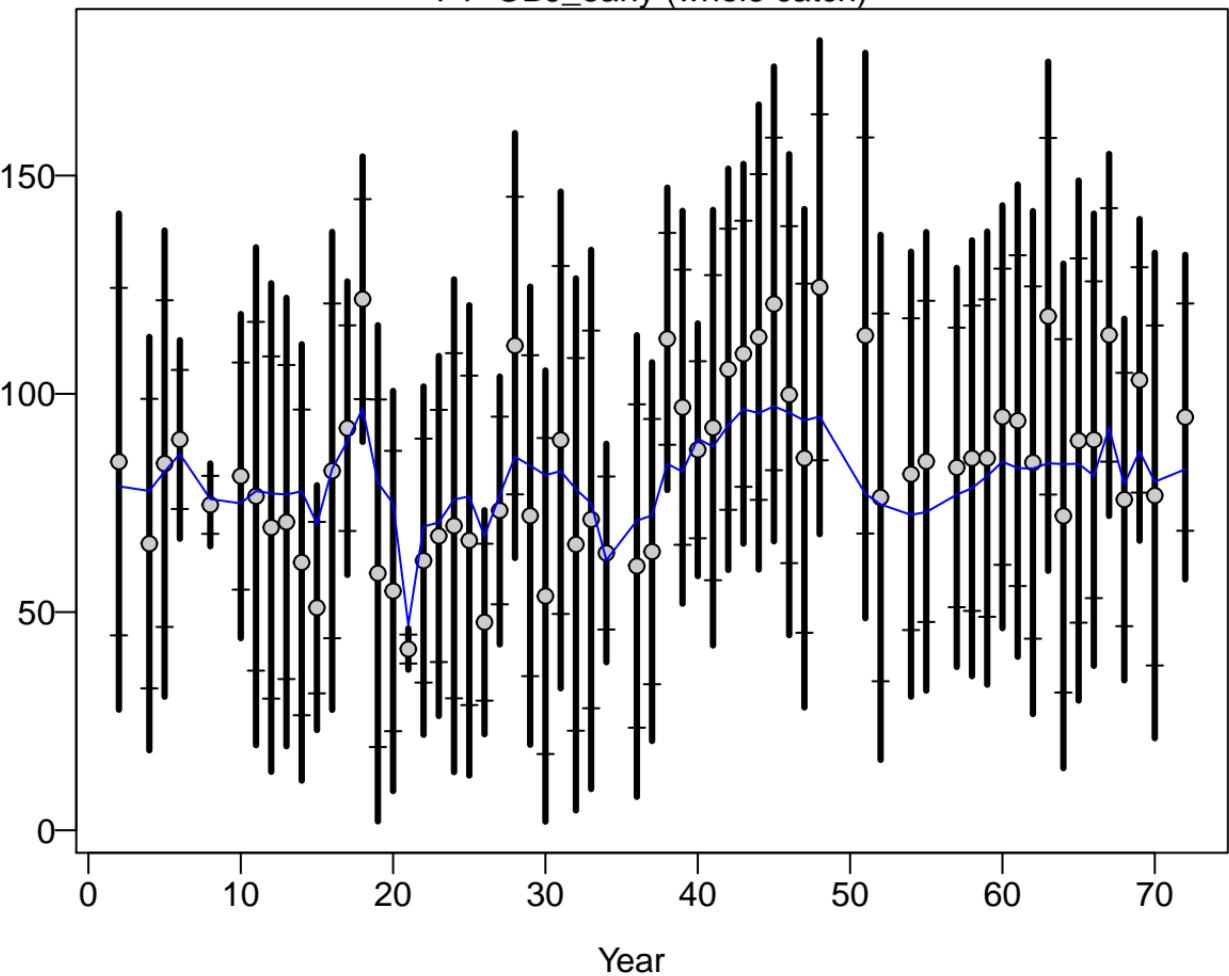
length comps, whole catch, F1–OBJ_early



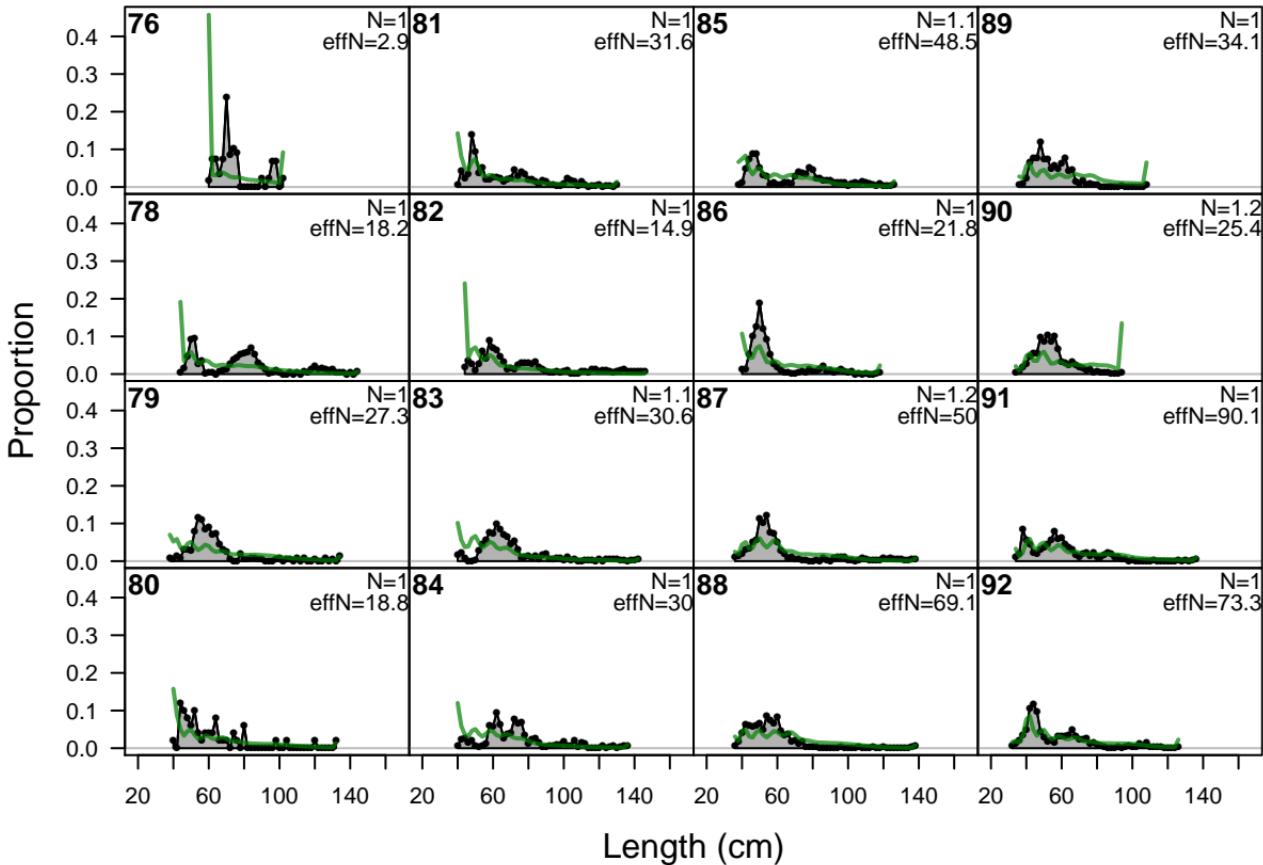


F1-OBJ_early (whole catch)

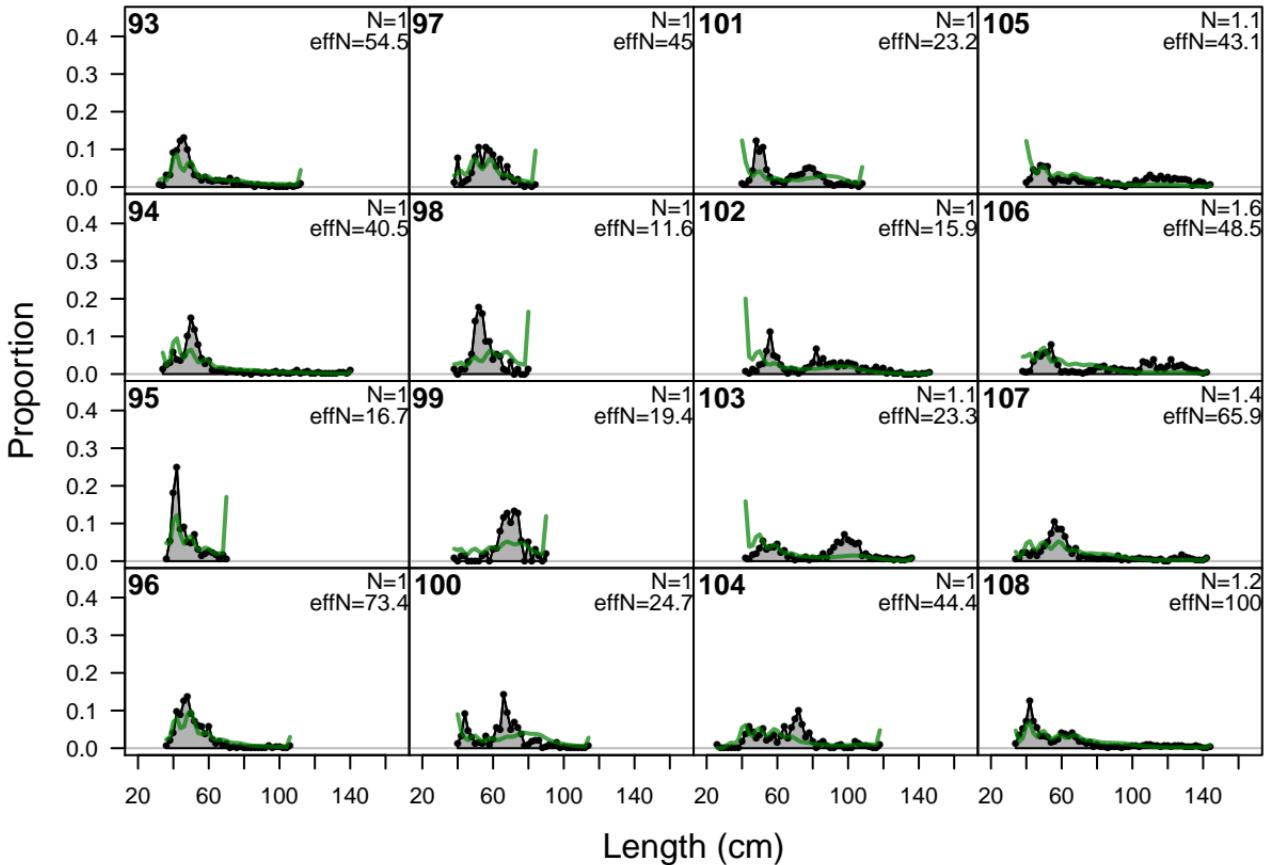
Mean length



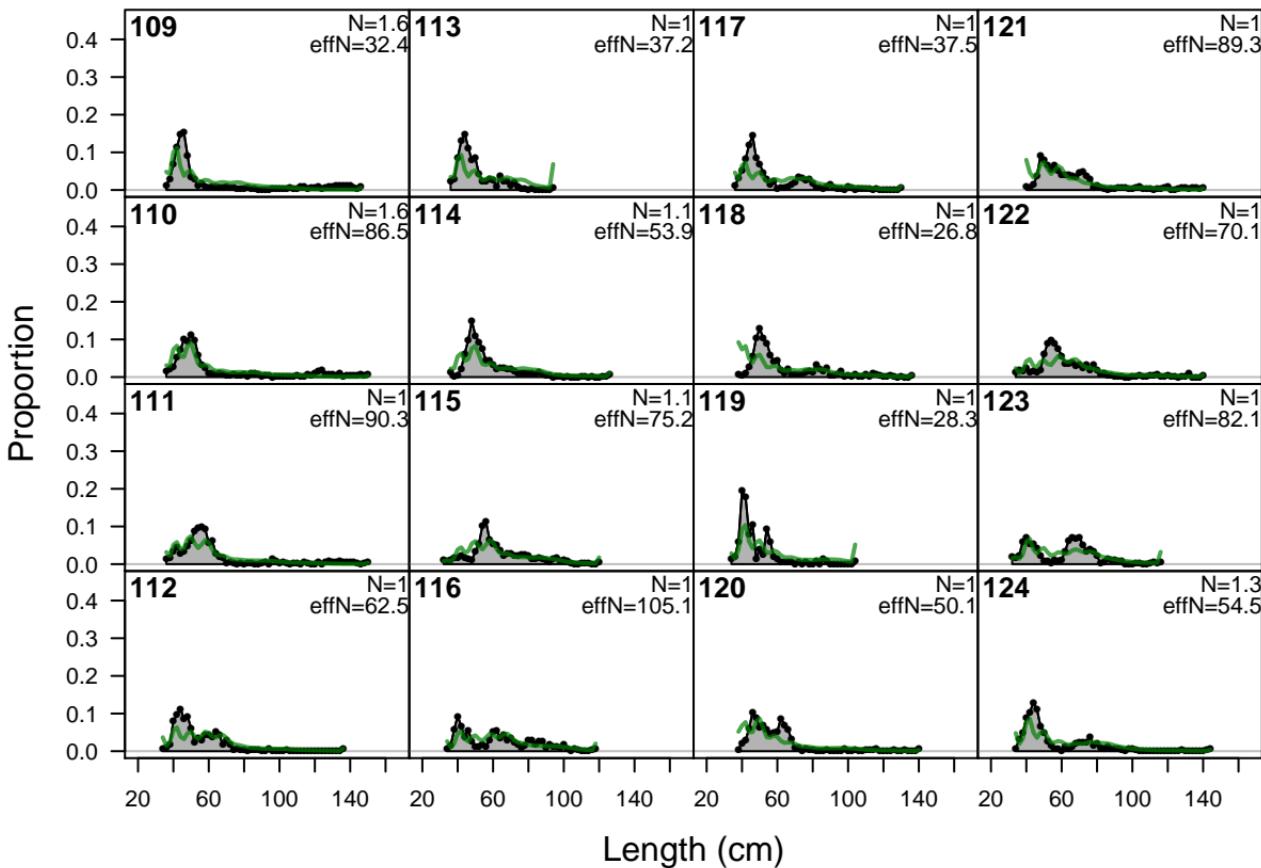
length comps, whole catch, F2-OBJ_S



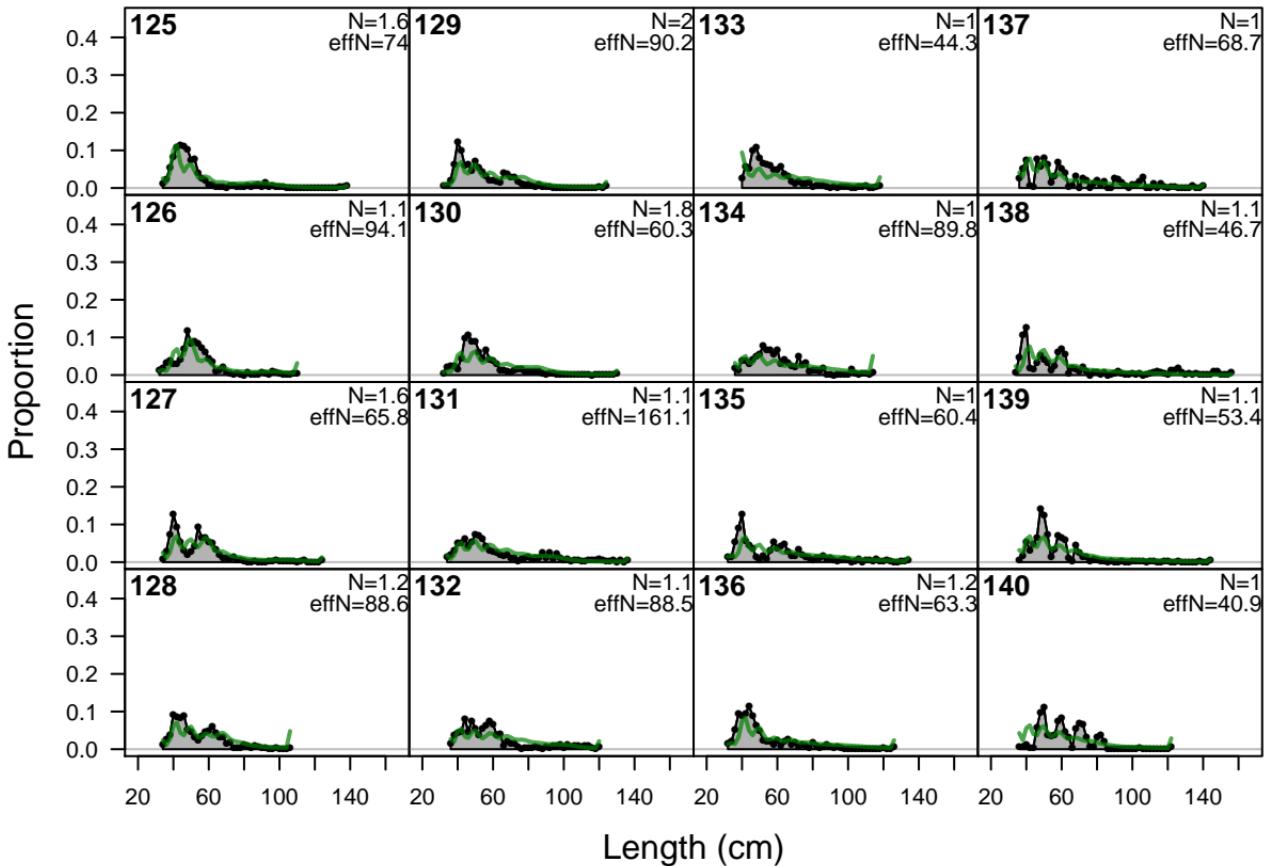
length comps, whole catch, F2-OBJ_S



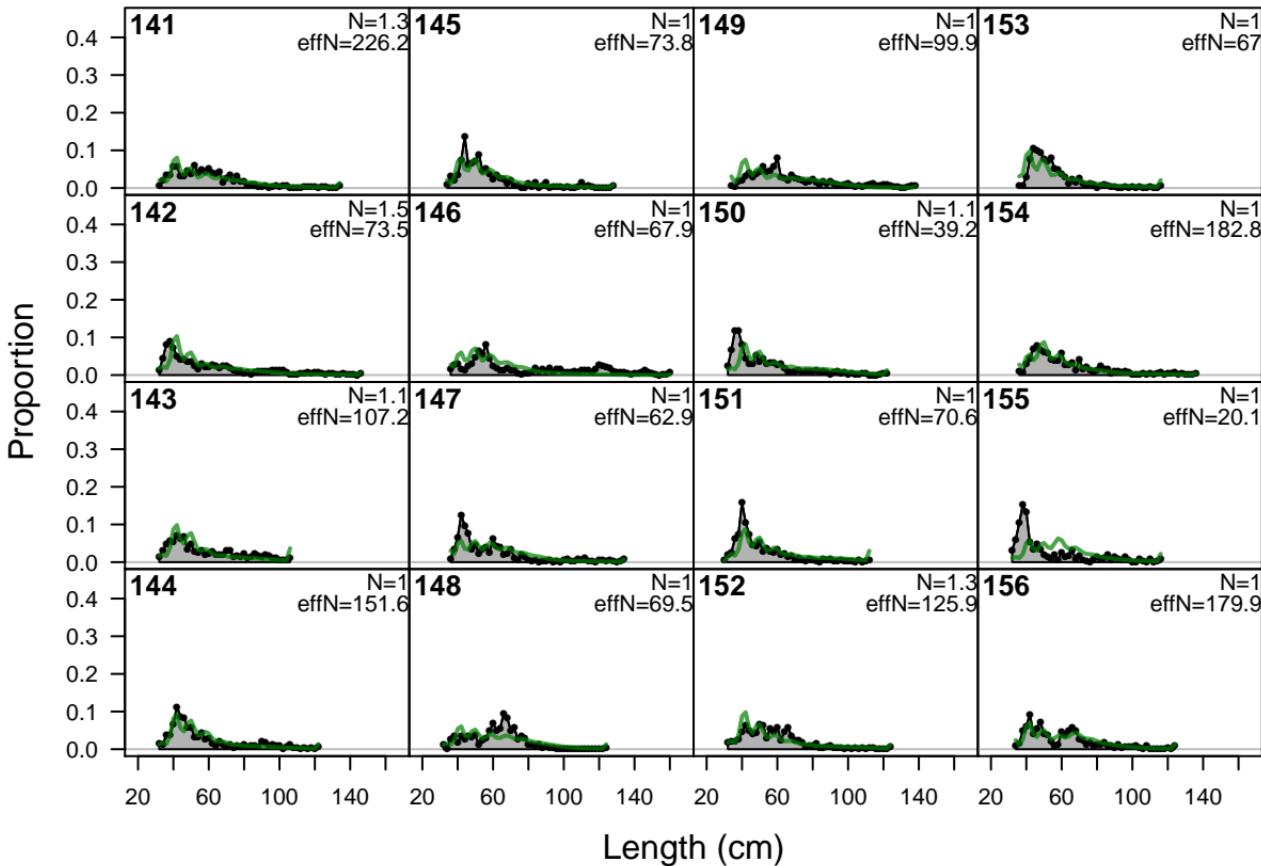
length comps, whole catch, F2-OBJ_S



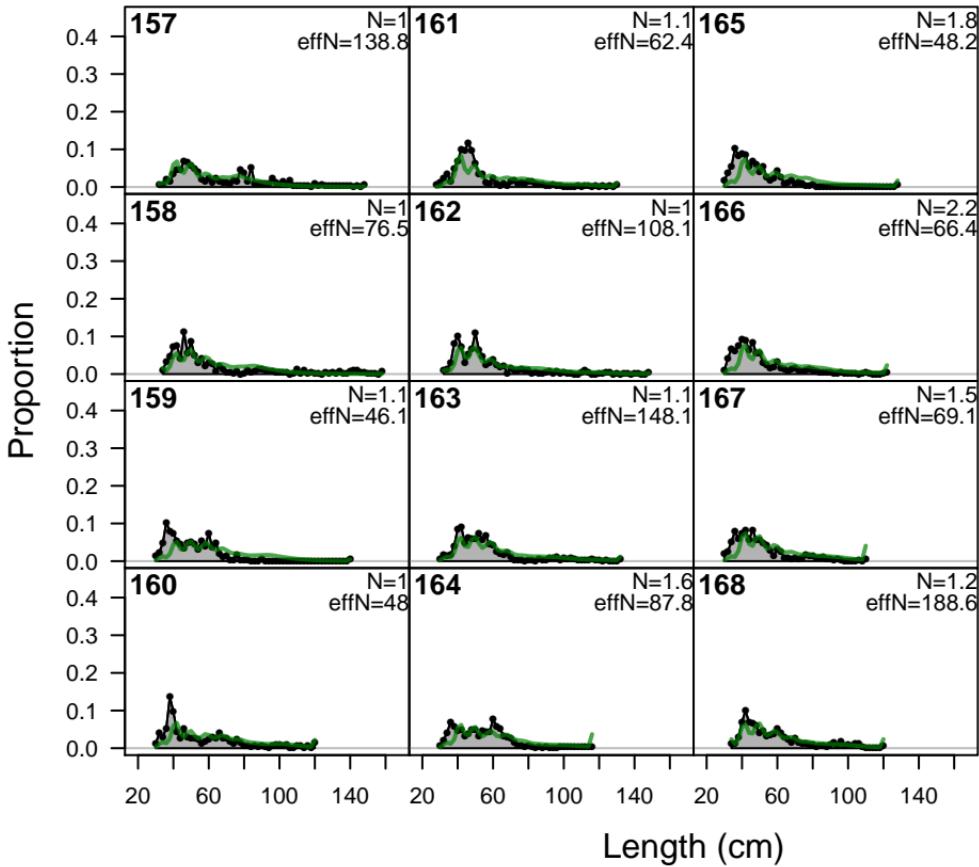
length comps, whole catch, F2-OBJ_S

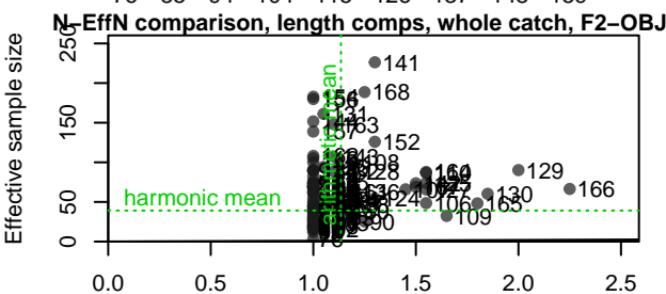
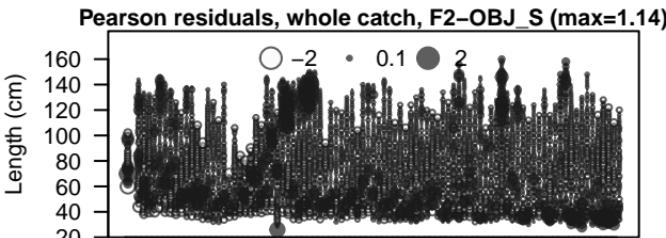


length comps, whole catch, F2-OBJ_S

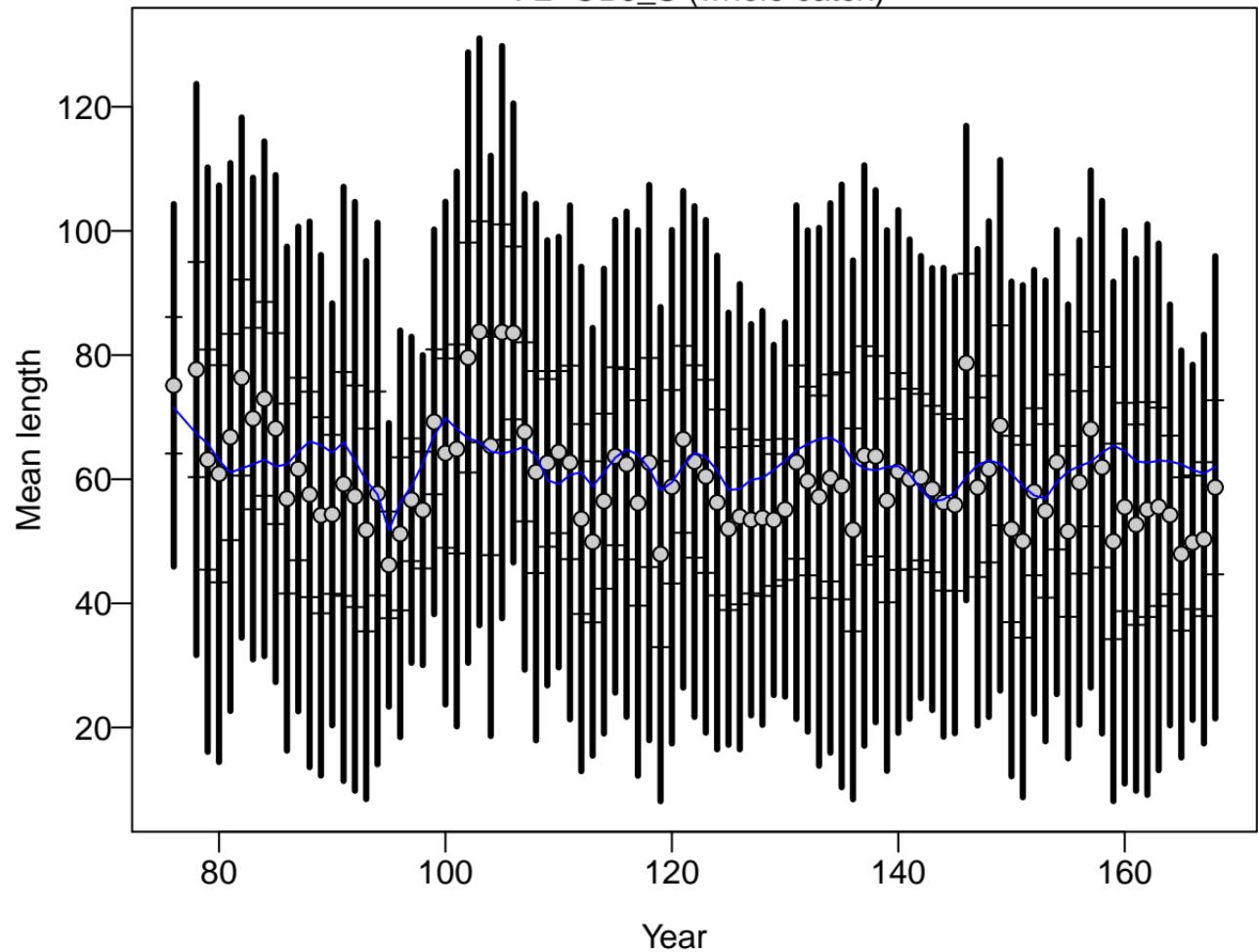


length comps, whole catch, F2-OBJ_S

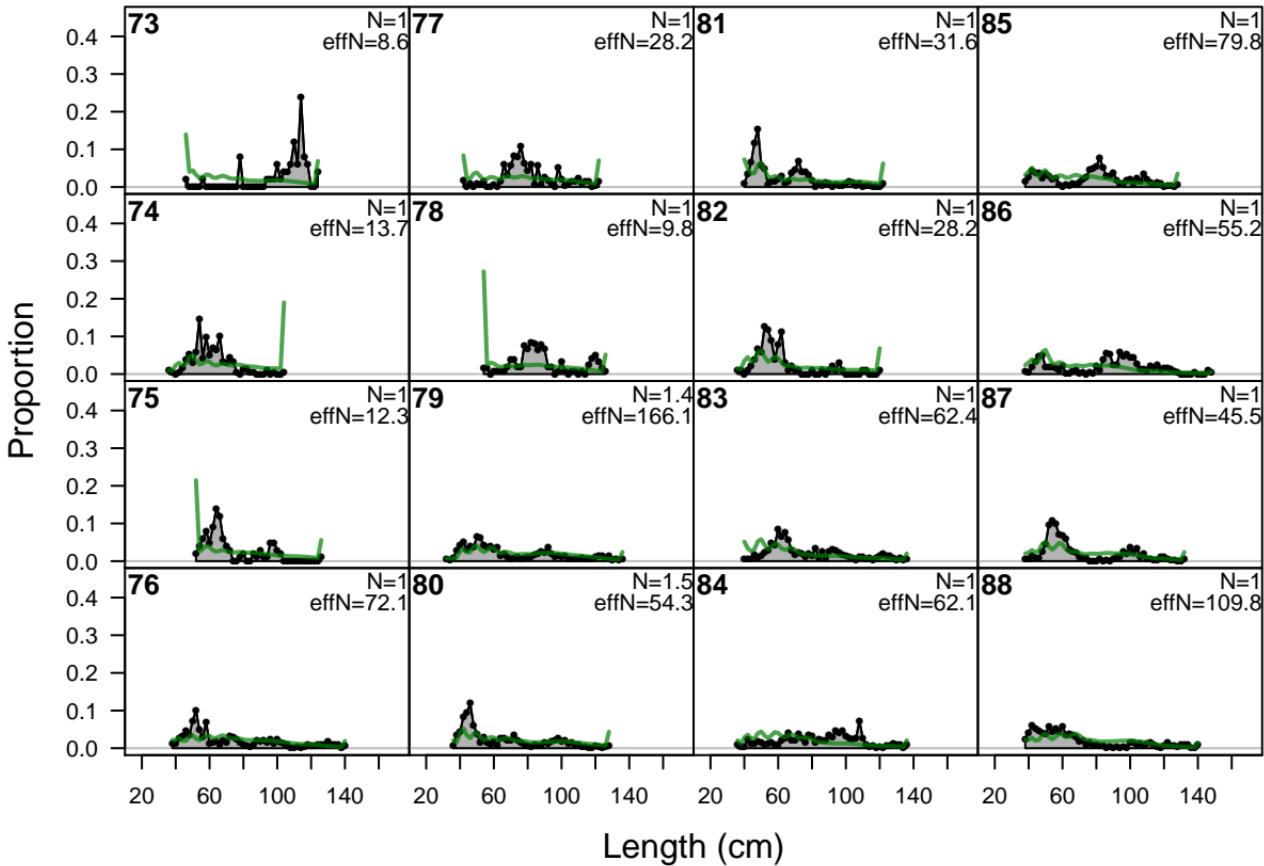




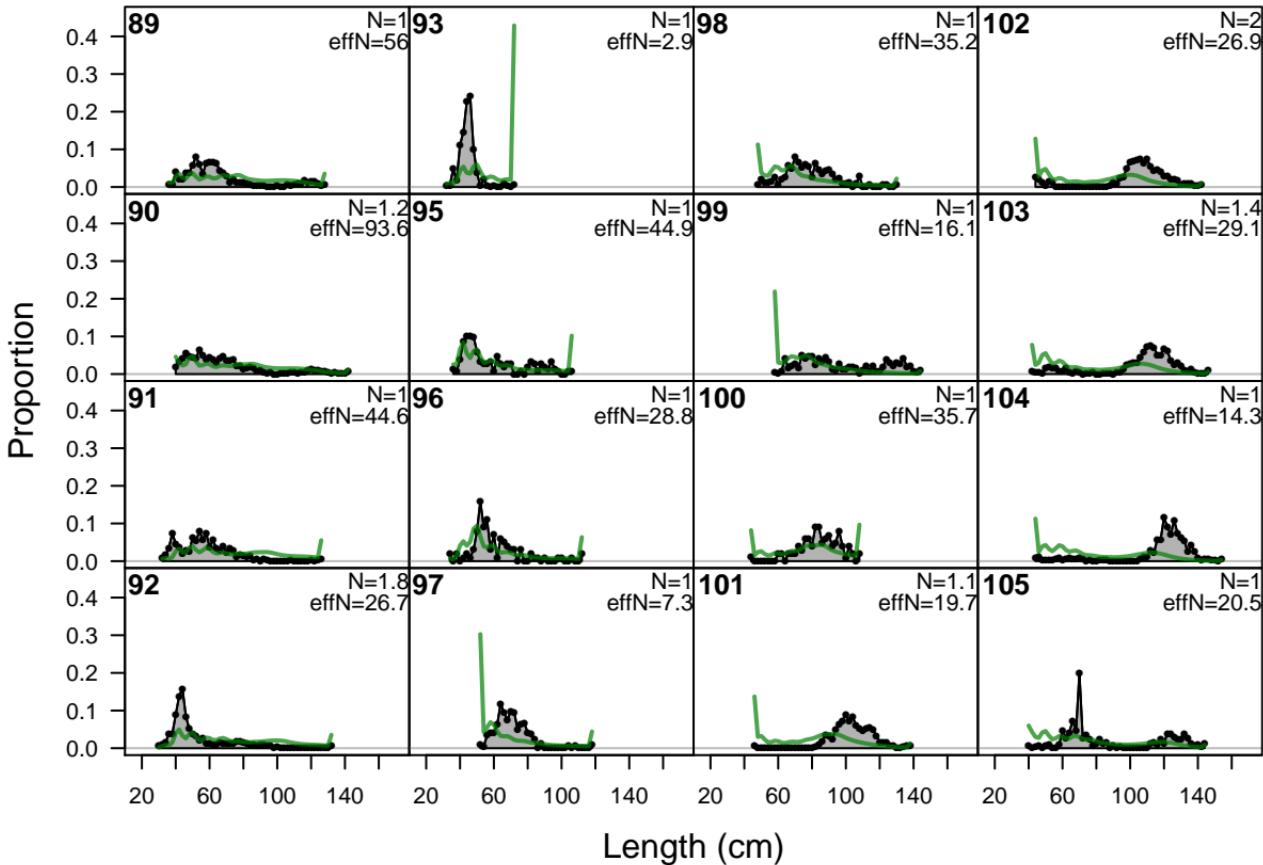
F2-OBJ_S (whole catch)



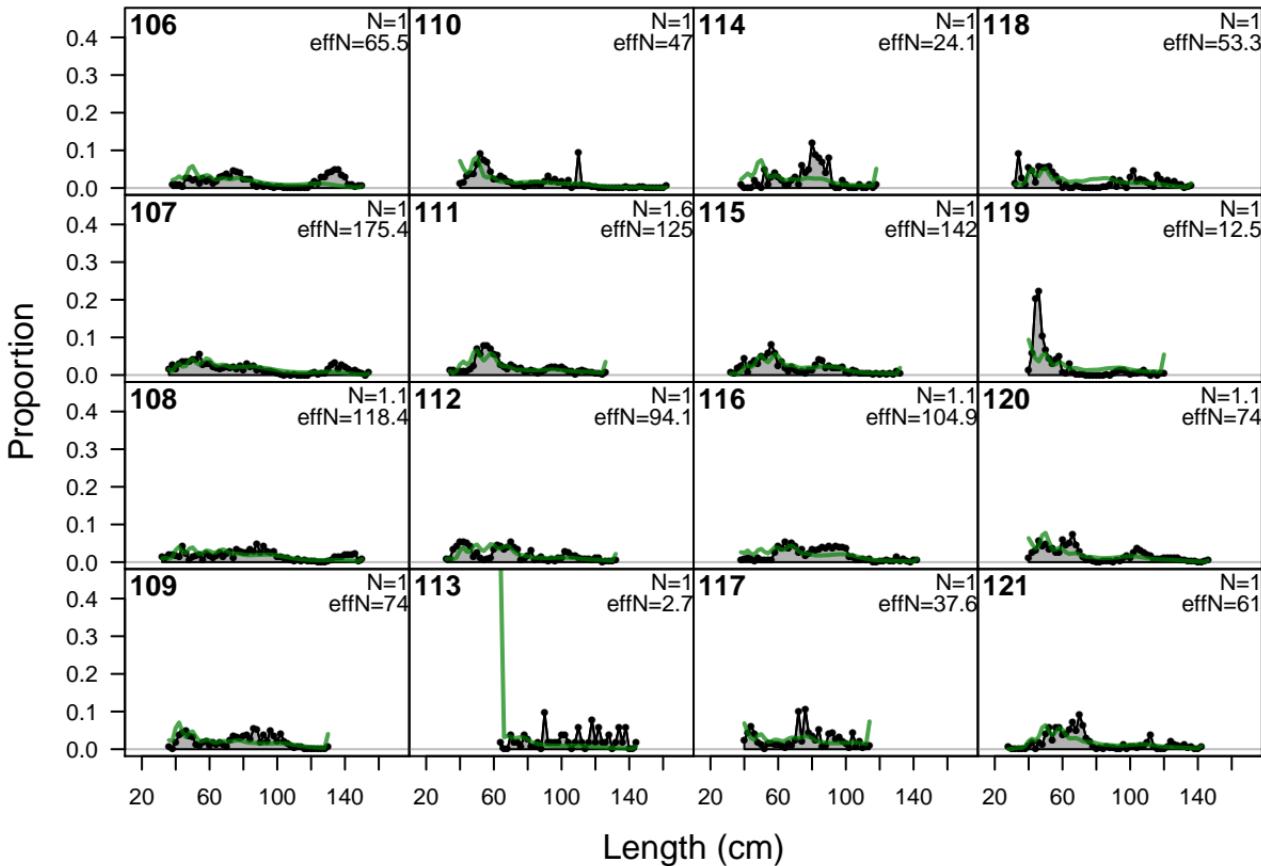
length comps, whole catch, F3-OBJ_C



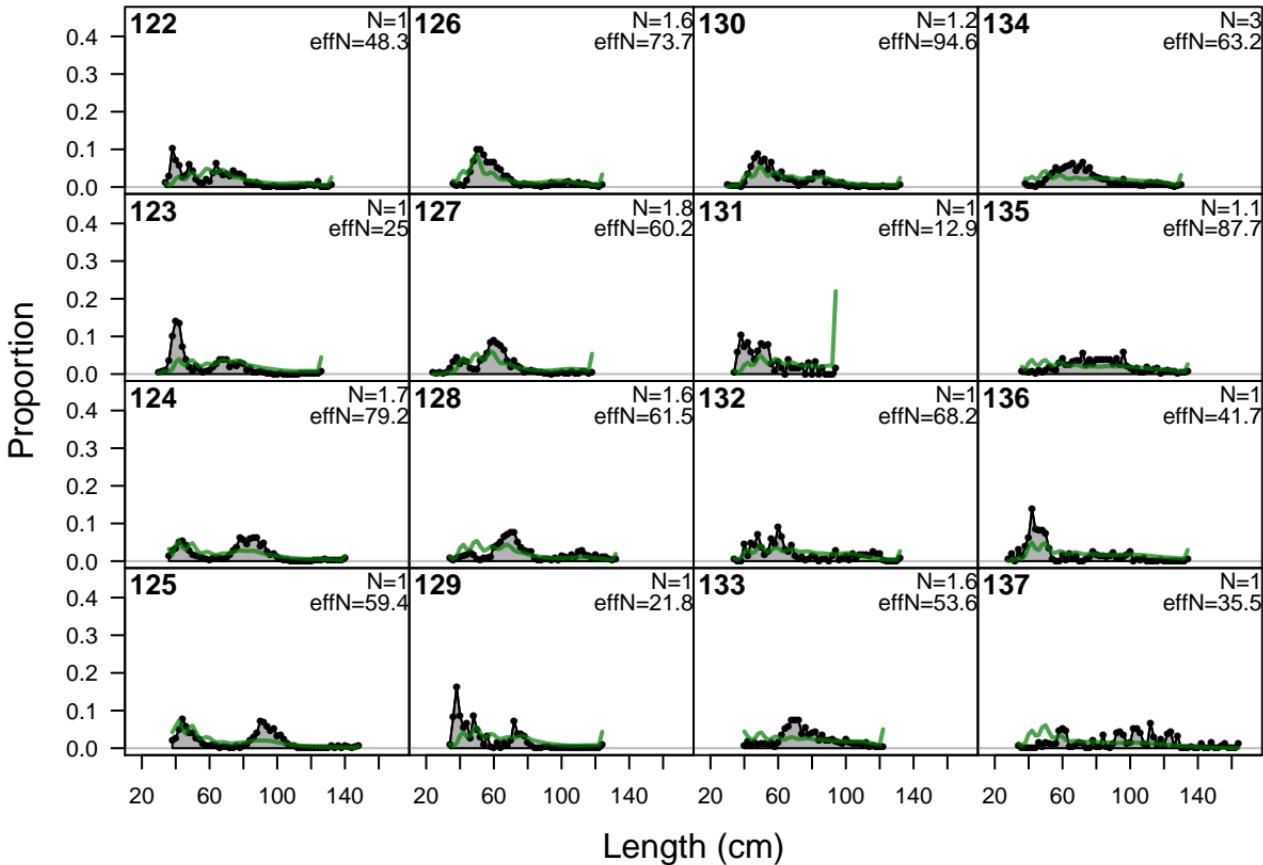
length comps, whole catch, F3-OBJ_C



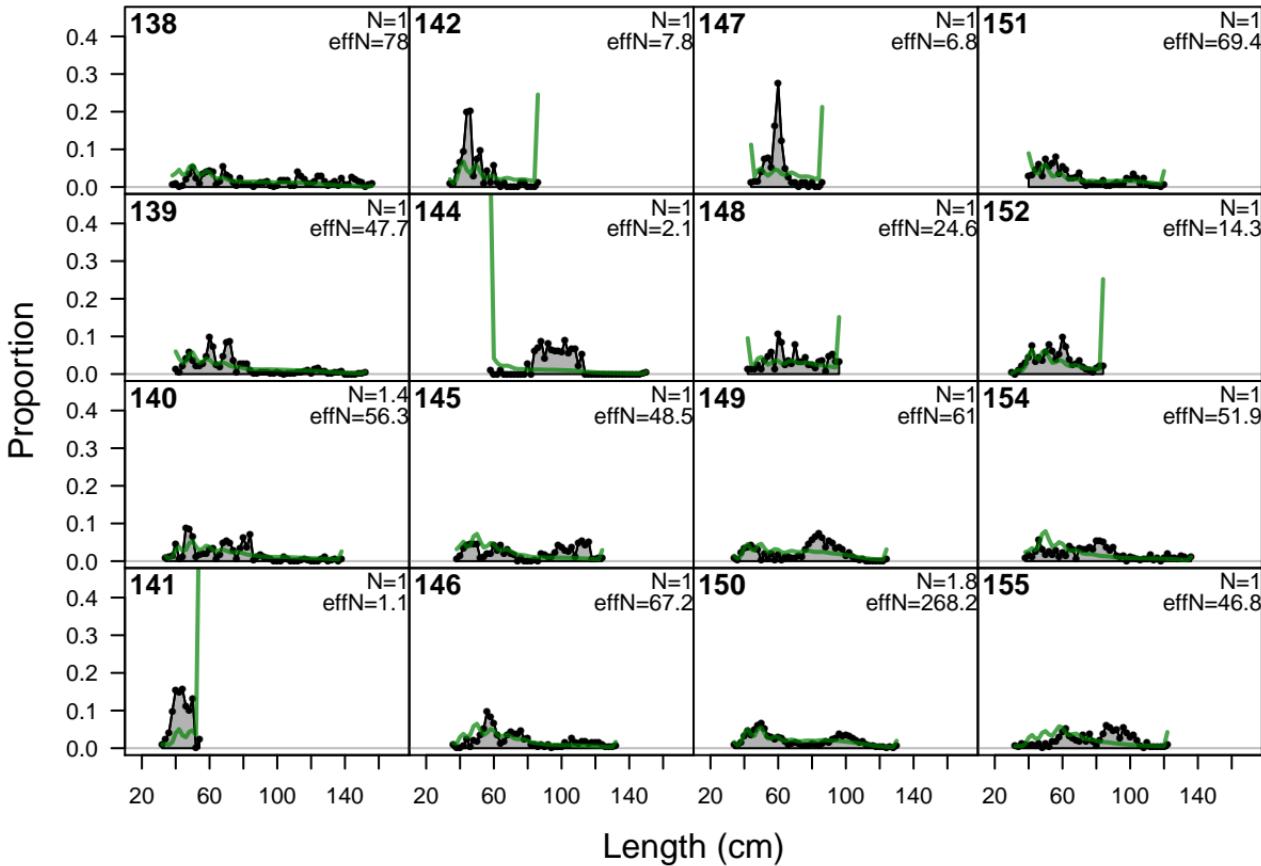
length comps, whole catch, F3-OBJ_C



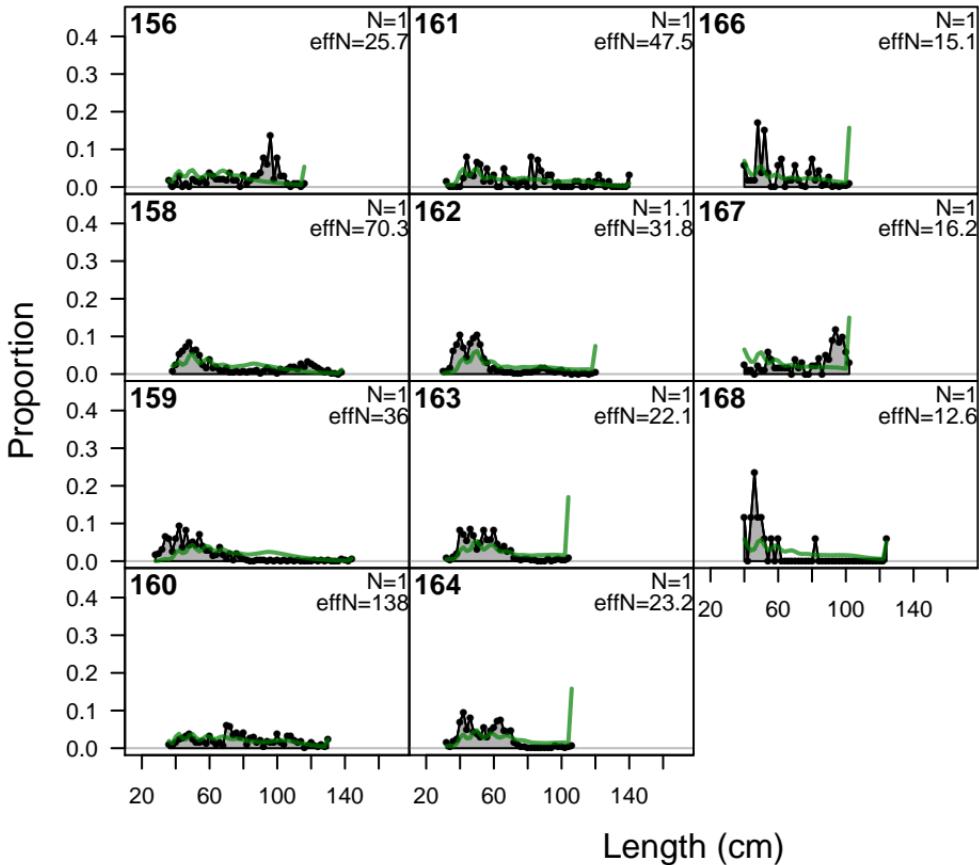
length comps, whole catch, F3-OBJ_C

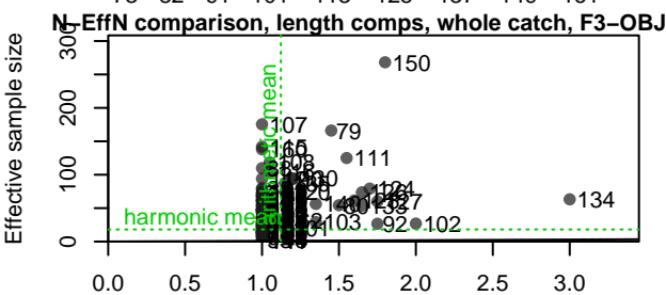
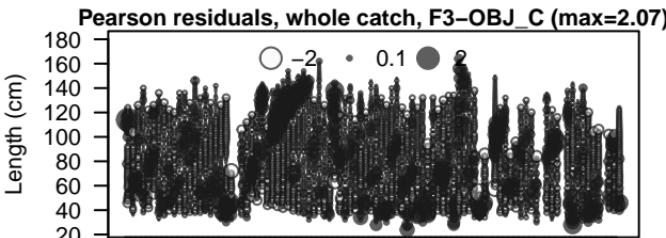


length comps, whole catch, F3-OBJ_C

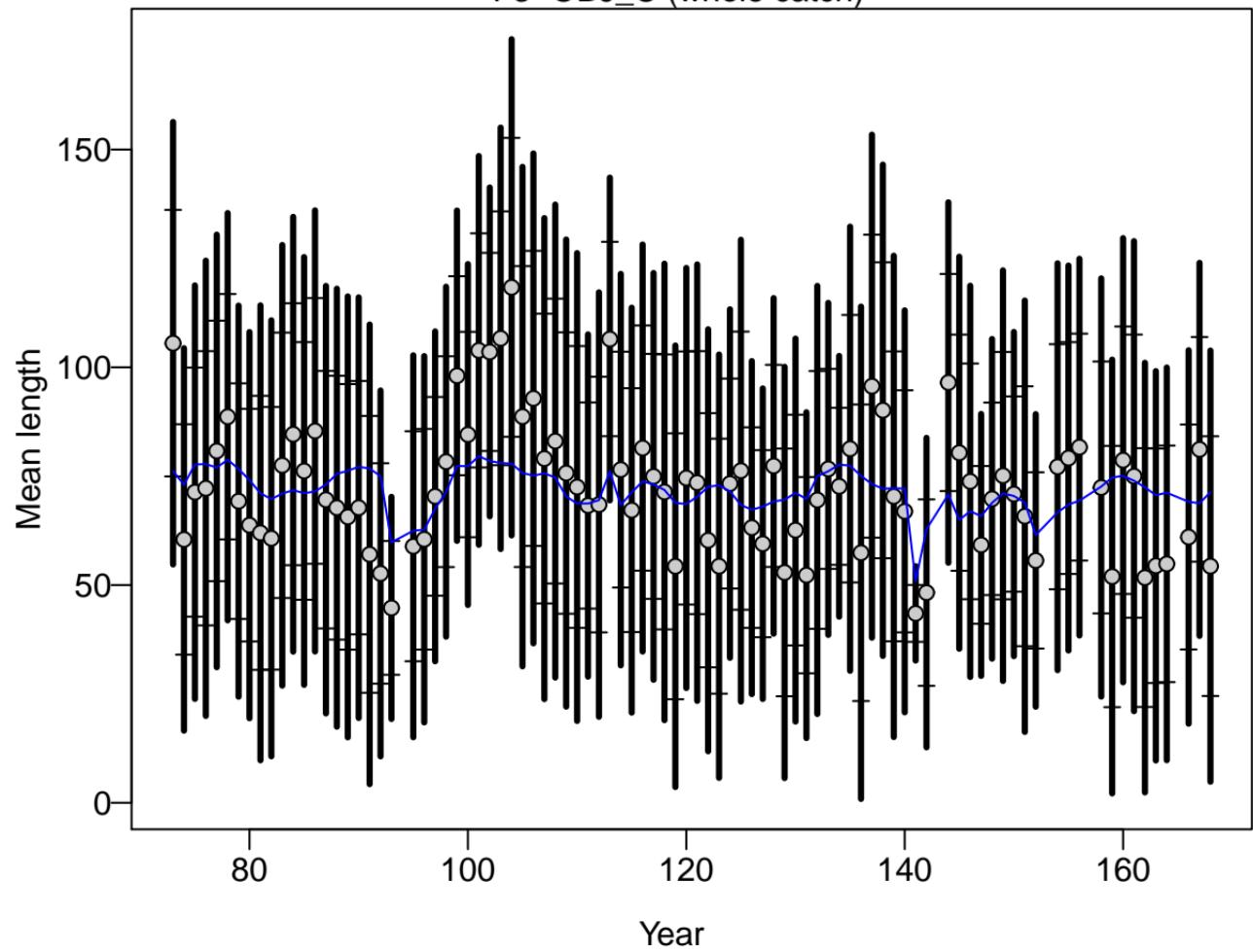


length comps, whole catch, F3-OBJ_C

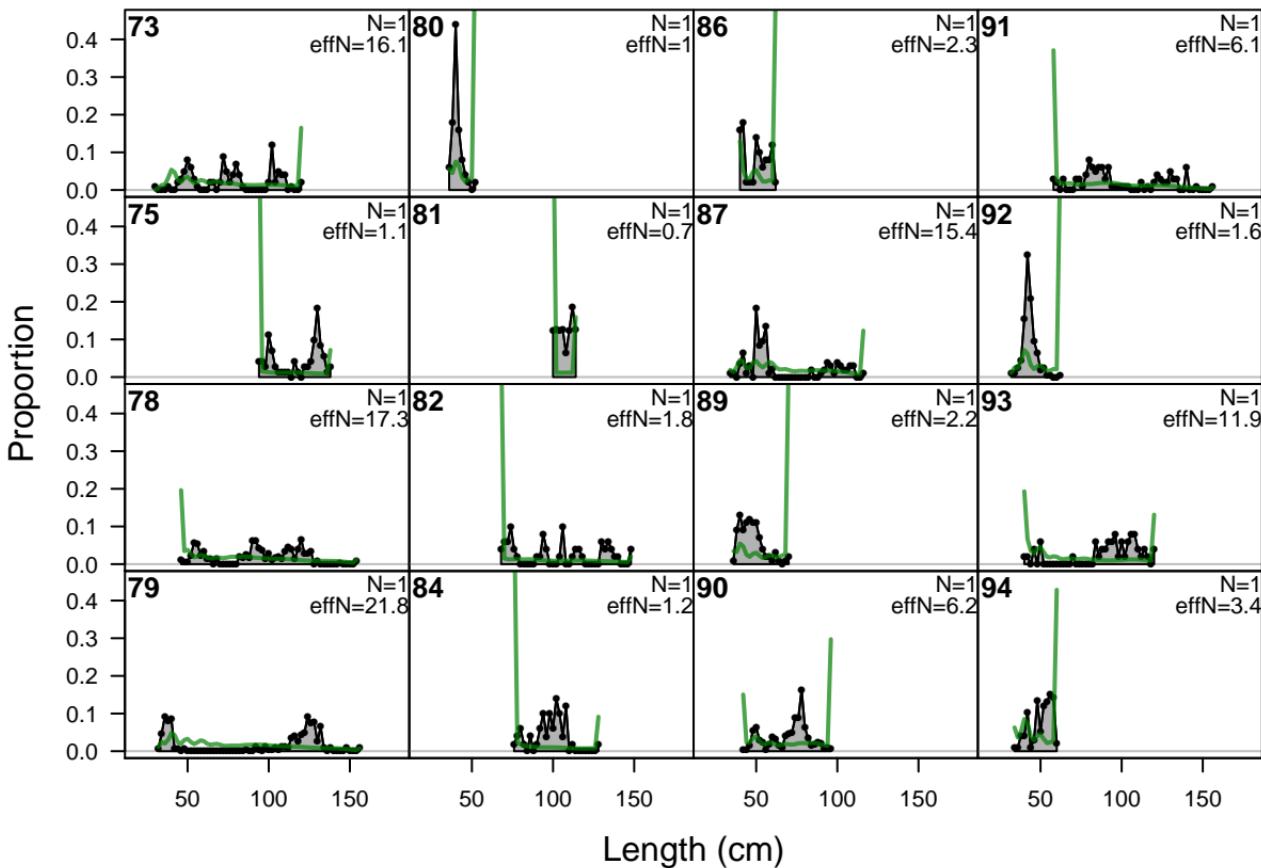




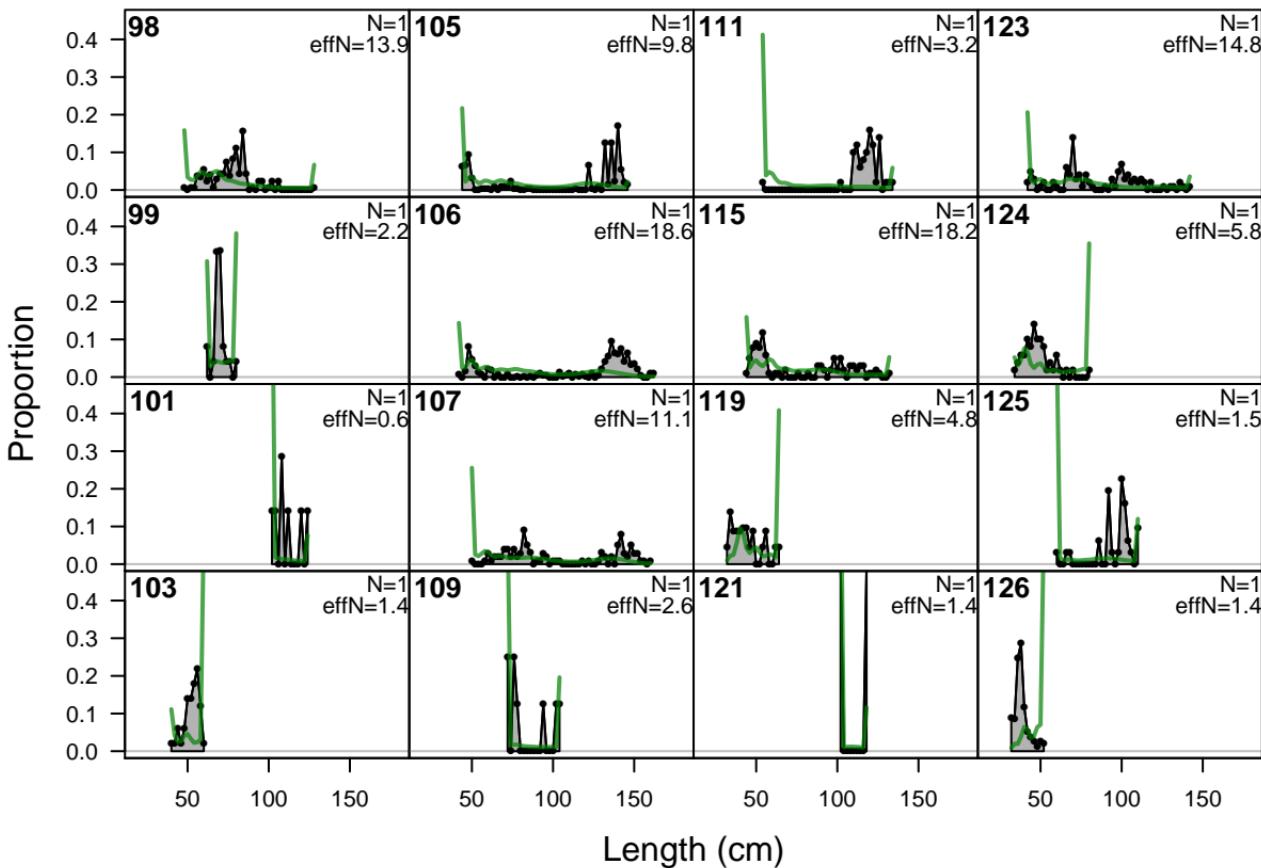
F3-OBJ_C (whole catch)



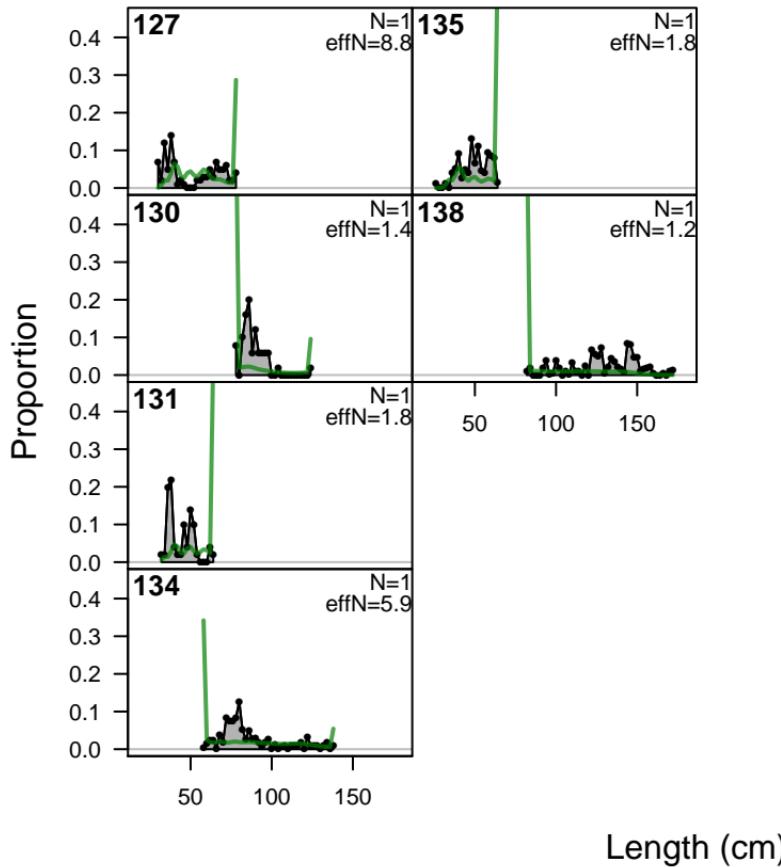
length comps, whole catch, F4–OBJ_I



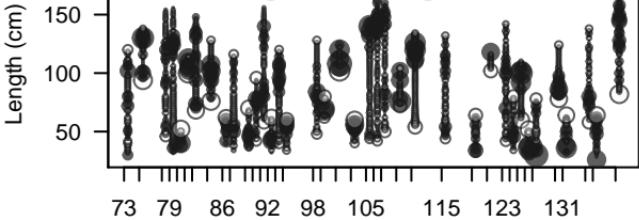
length comps, whole catch, F4–OBJ_I



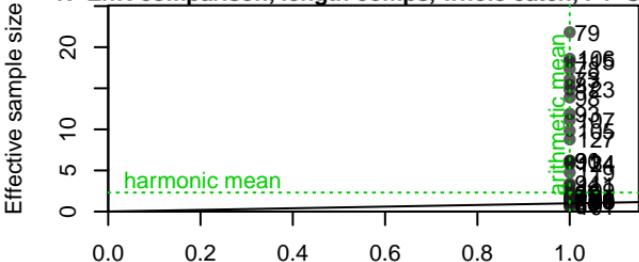
length comps, whole catch, F4–OBJ_I



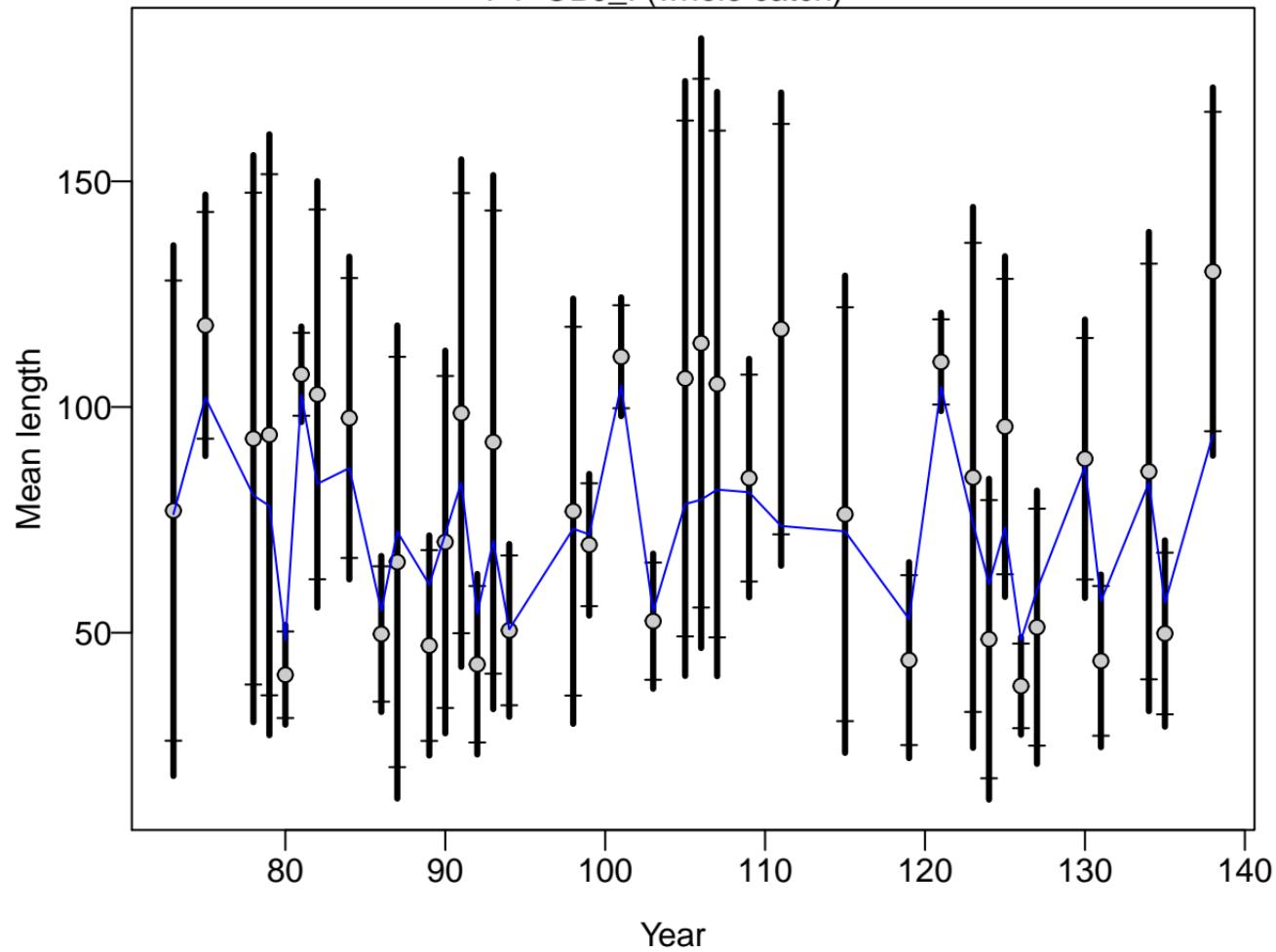
Pearson residuals, whole catch, F4-OBJ_I (max=2.31)



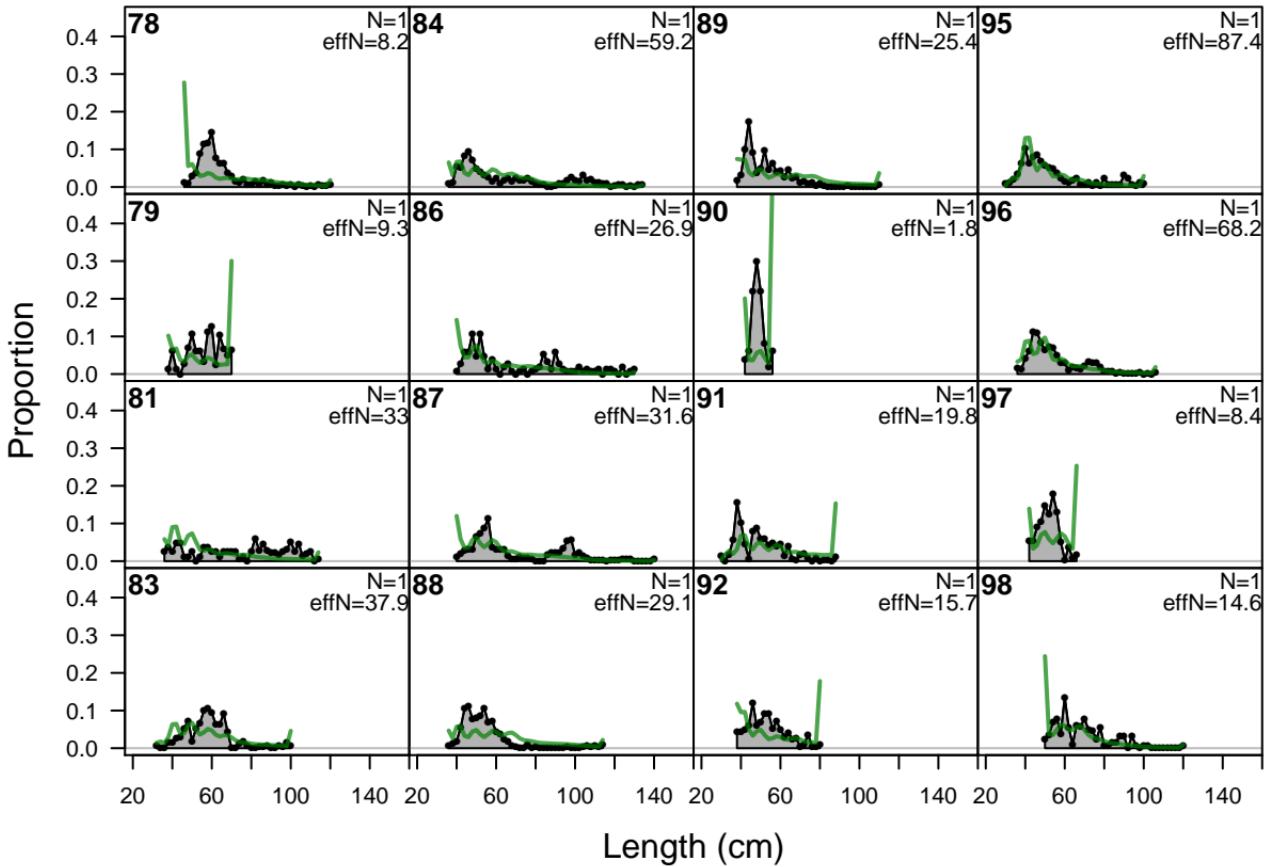
N-EffN comparison, length comps, whole catch, F4-OBJ_I



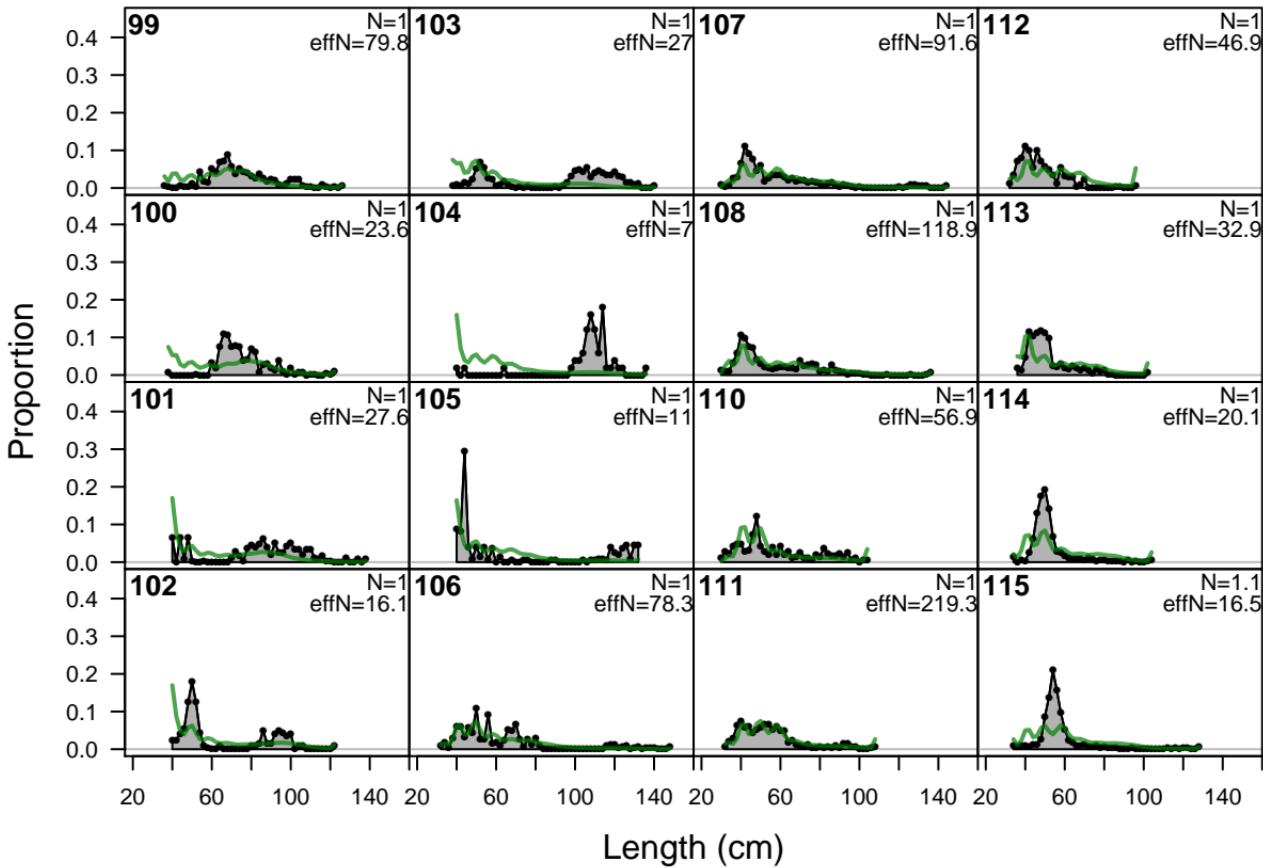
F4-OBJ_I (whole catch)



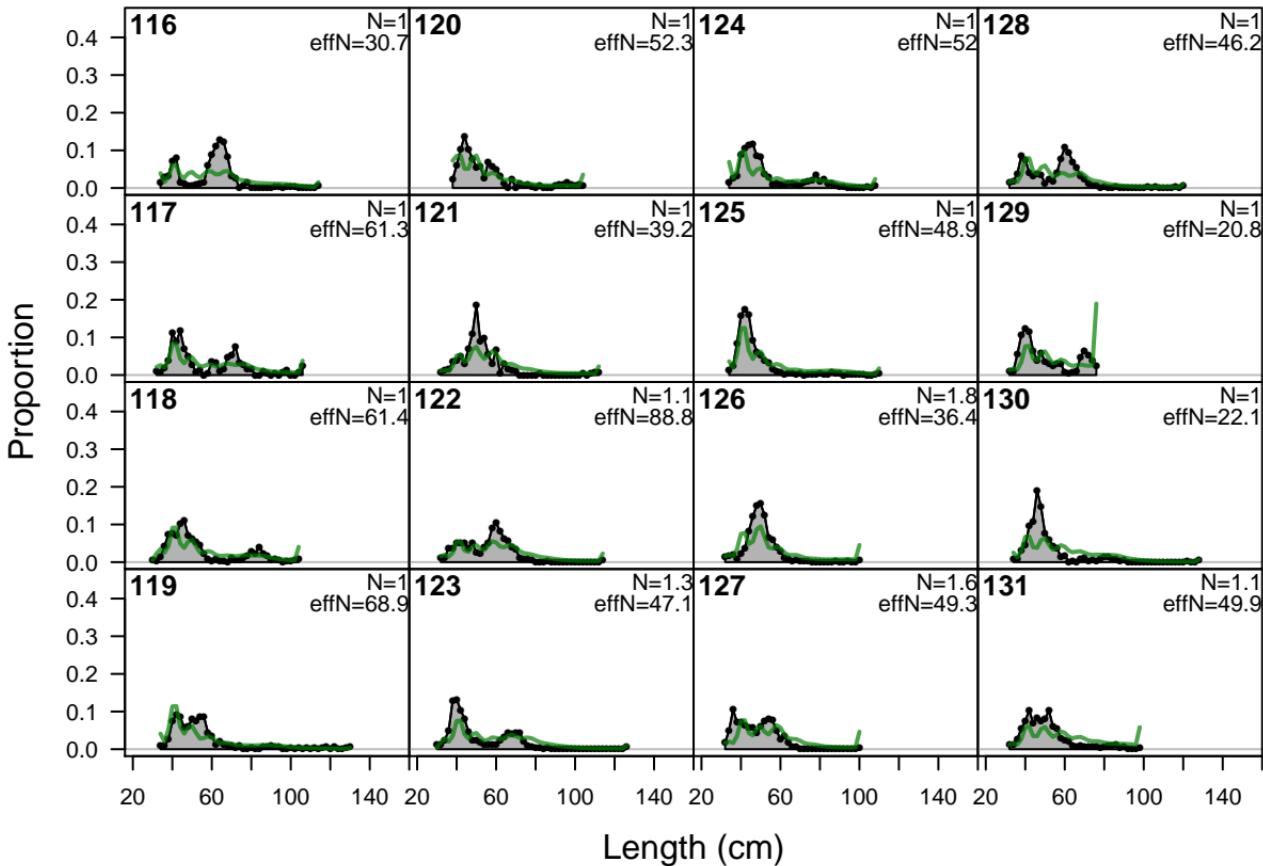
length comps, whole catch, F5-OBJ_N



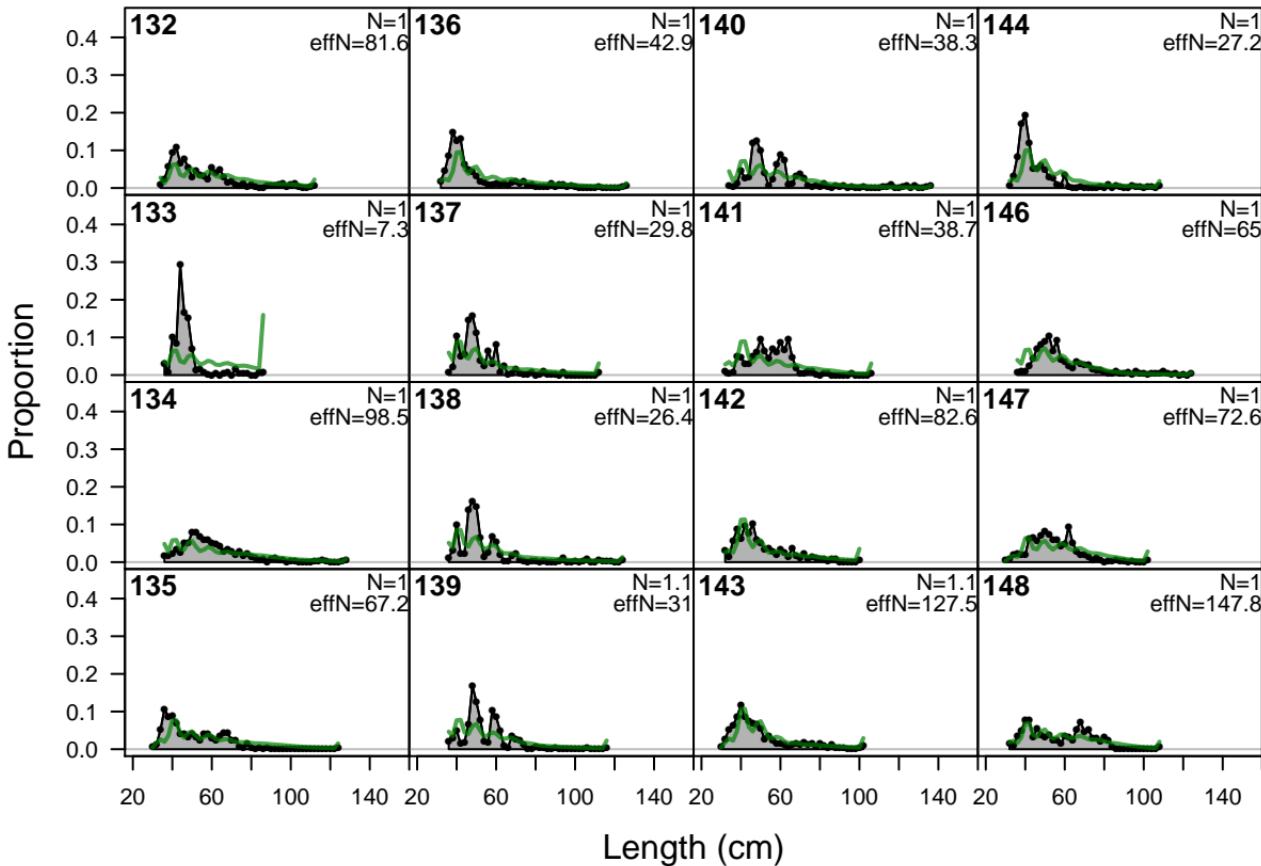
length comps, whole catch, F5-OBJ_N



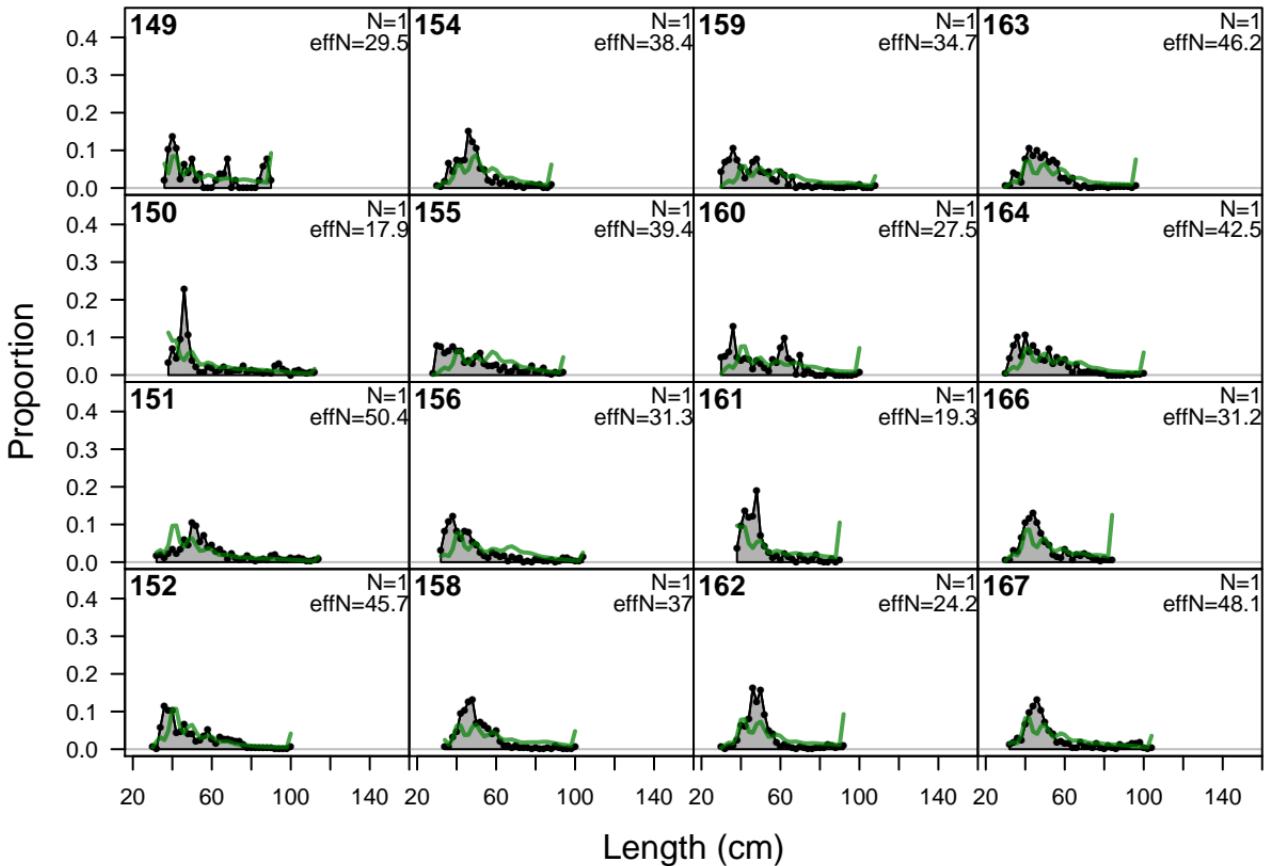
length comps, whole catch, F5-OBJ_N



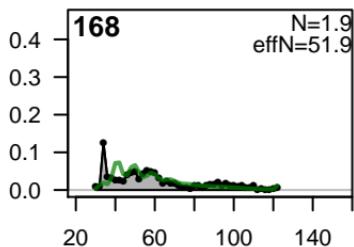
length comps, whole catch, F5-OBJ_N



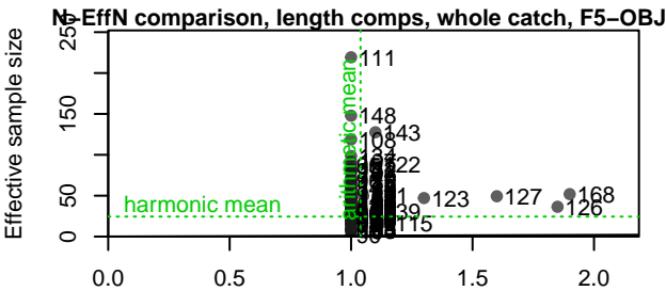
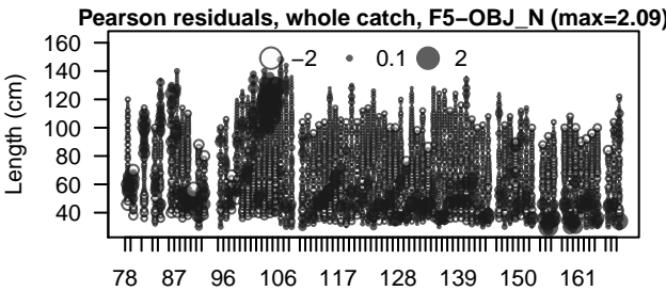
length comps, whole catch, F5-OBJ_N



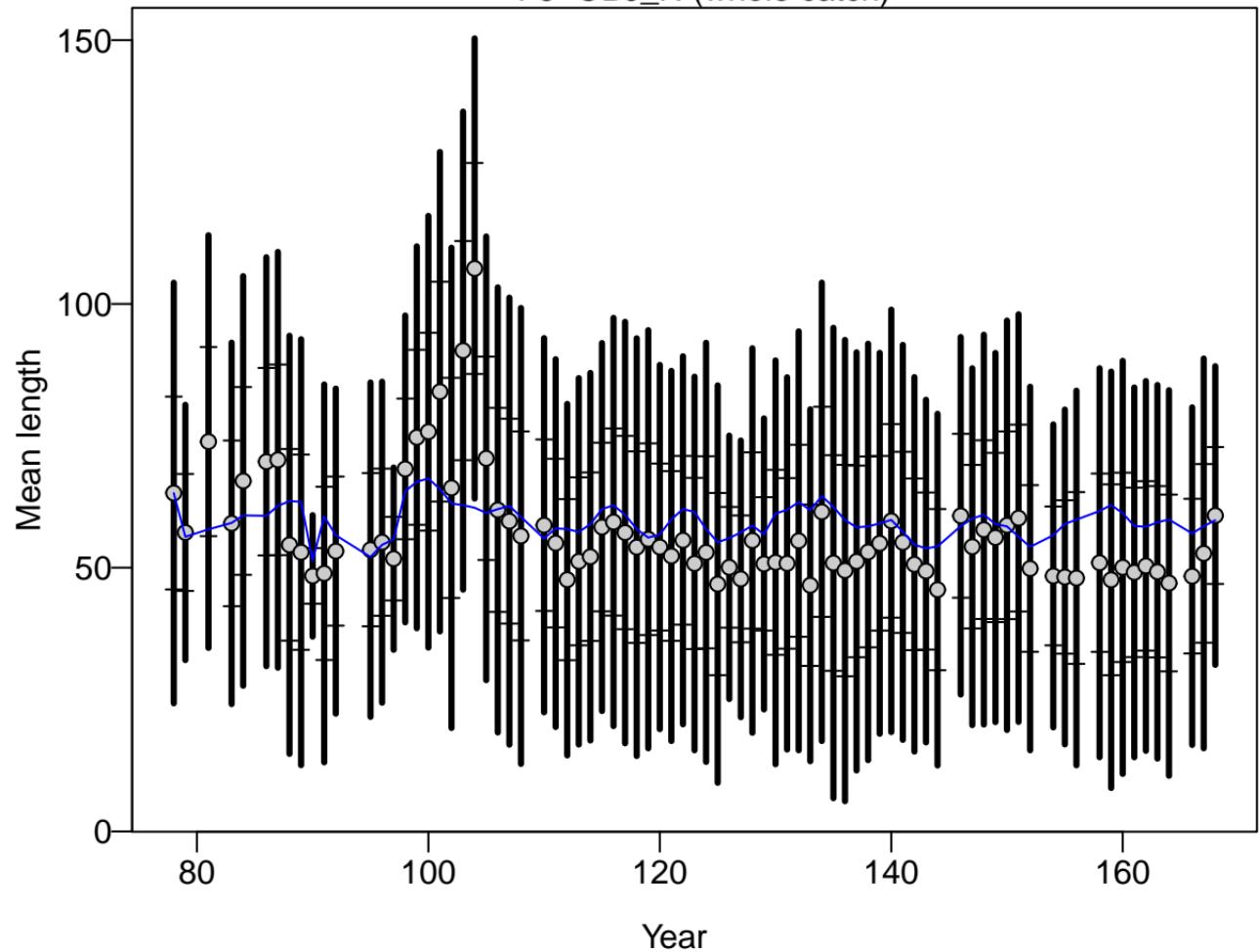
length comps, whole catch, F5-OBJ_N



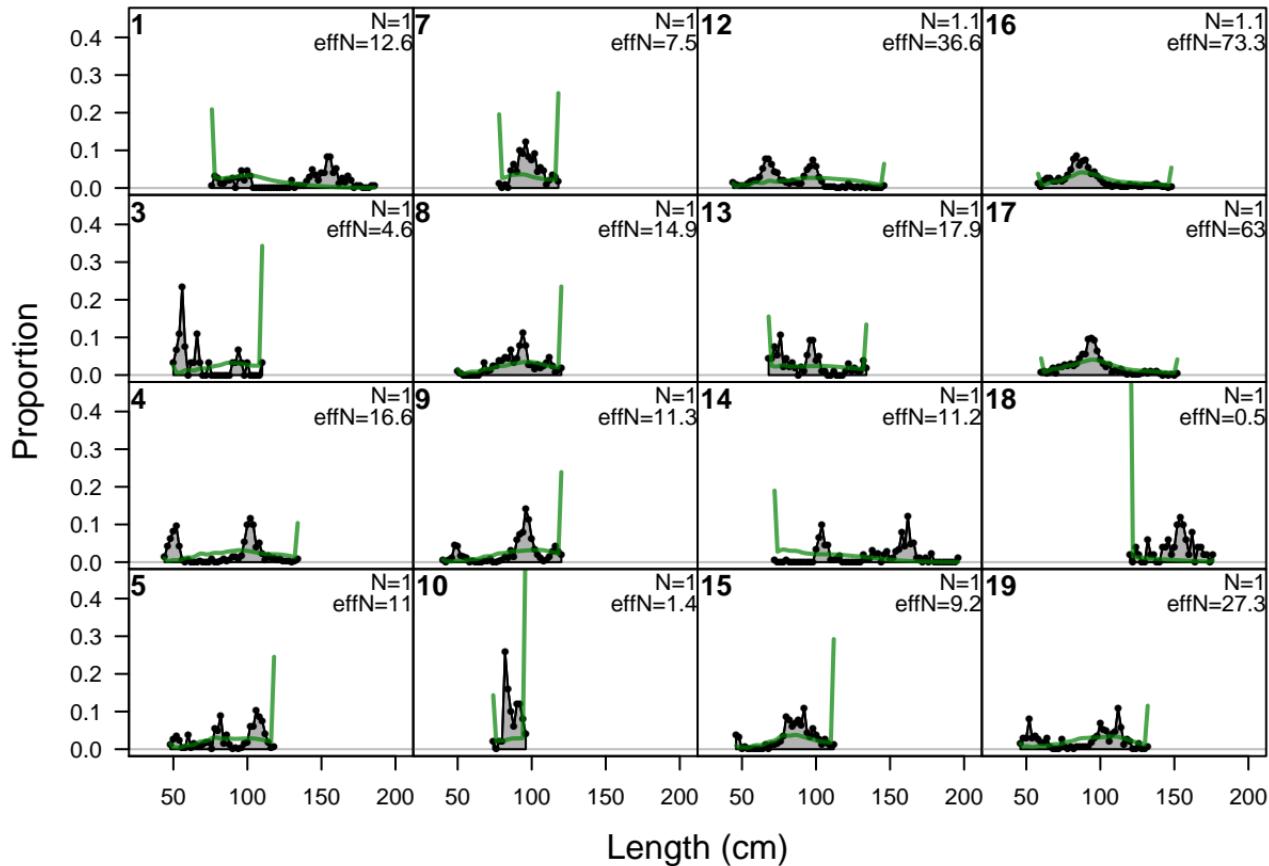
Length (cm)



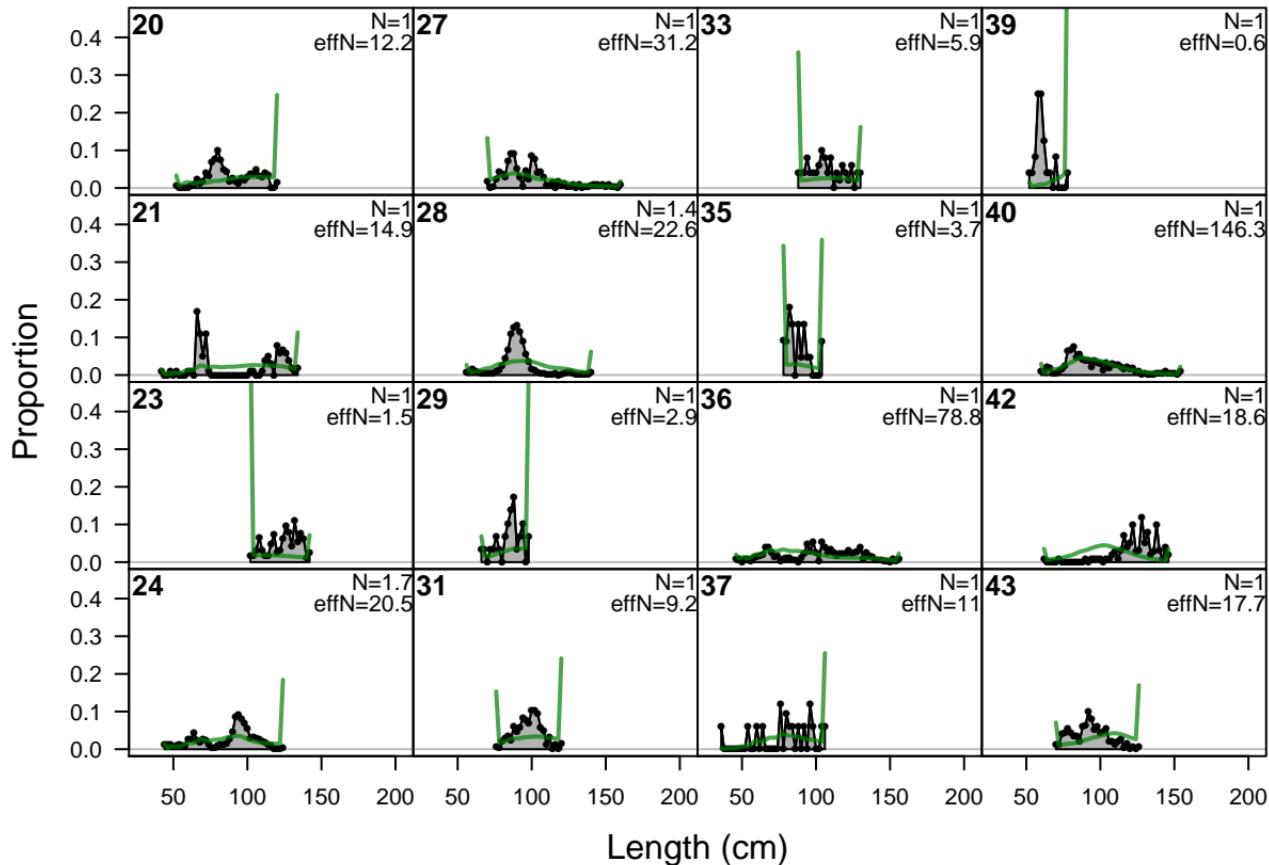
F5-OBJ_N (whole catch)



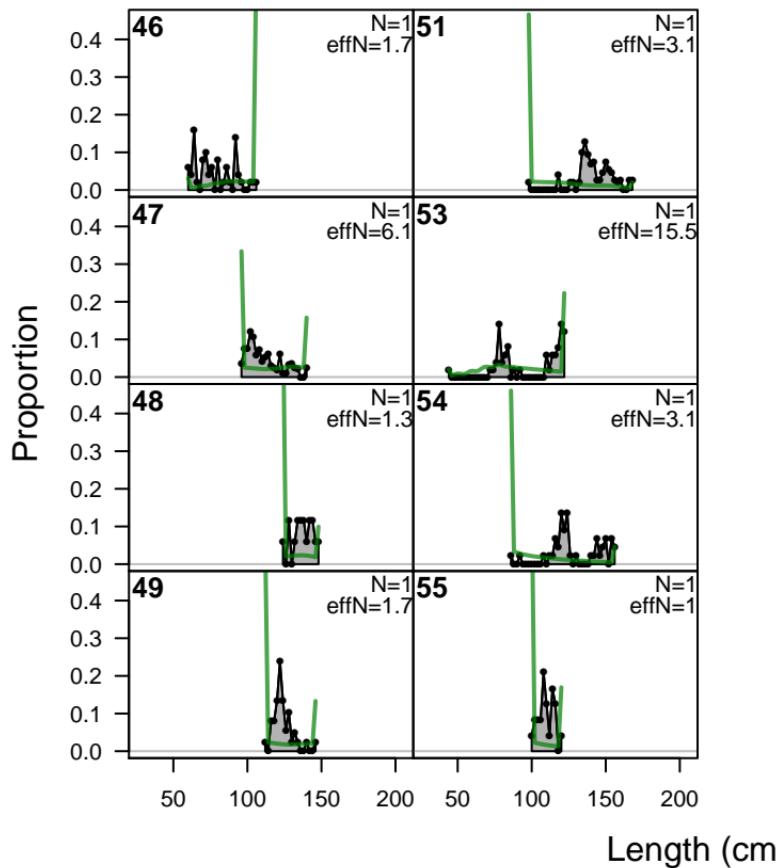
length comps, whole catch, F6–NOA–DEL_early

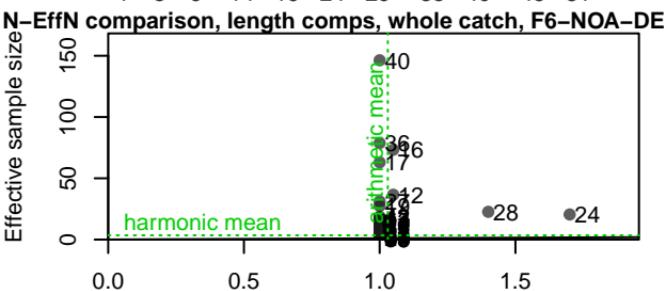
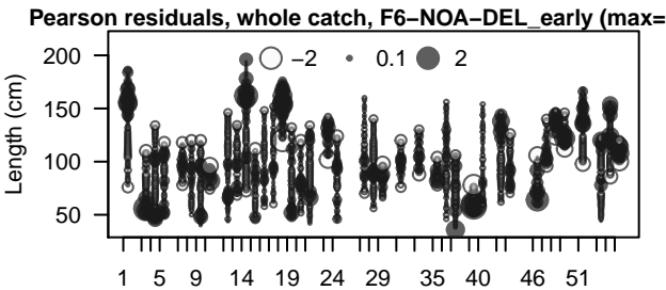


length comps, whole catch, F6–NOA–DEL_early

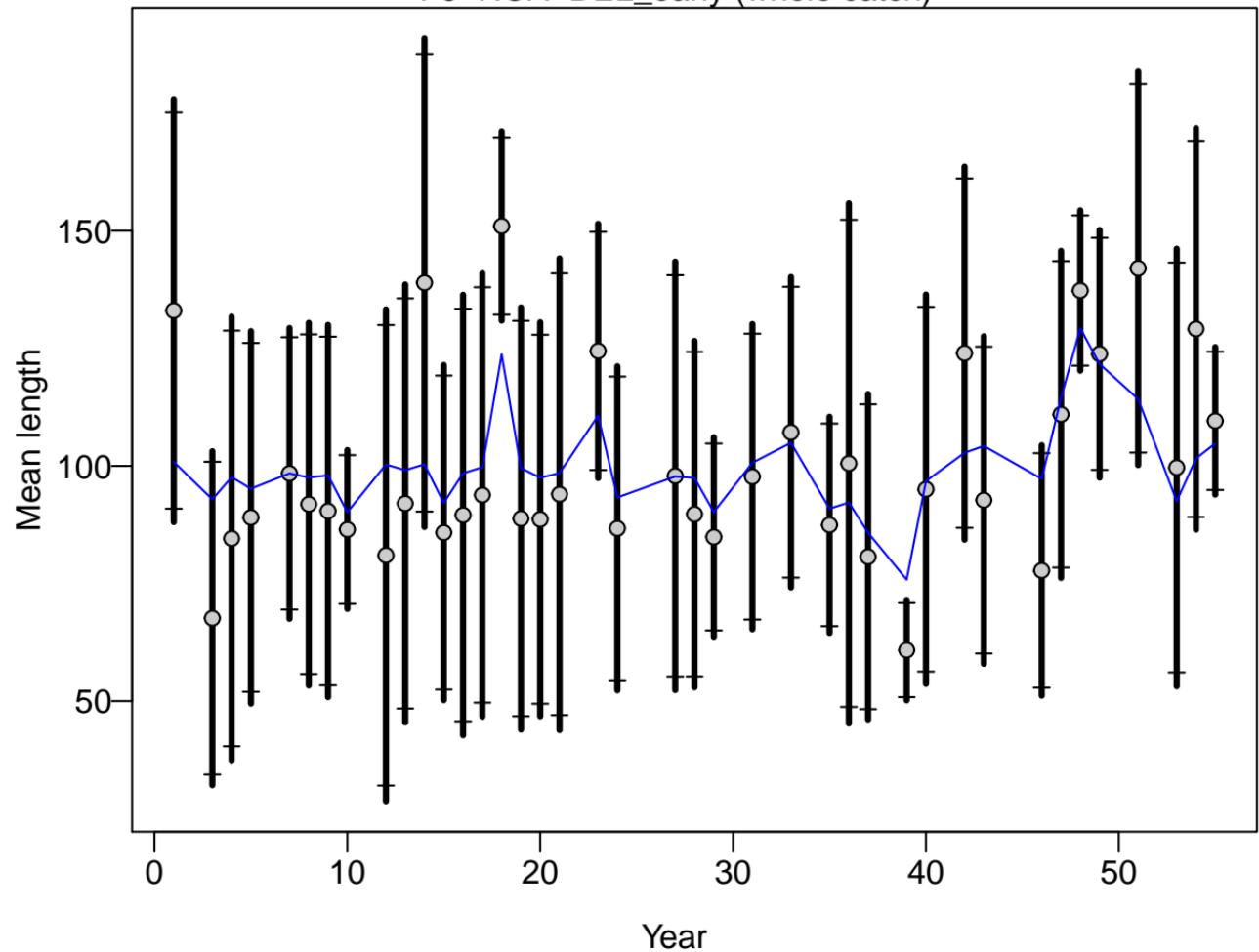


length comps, whole catch, F6–NOA–DEL_early

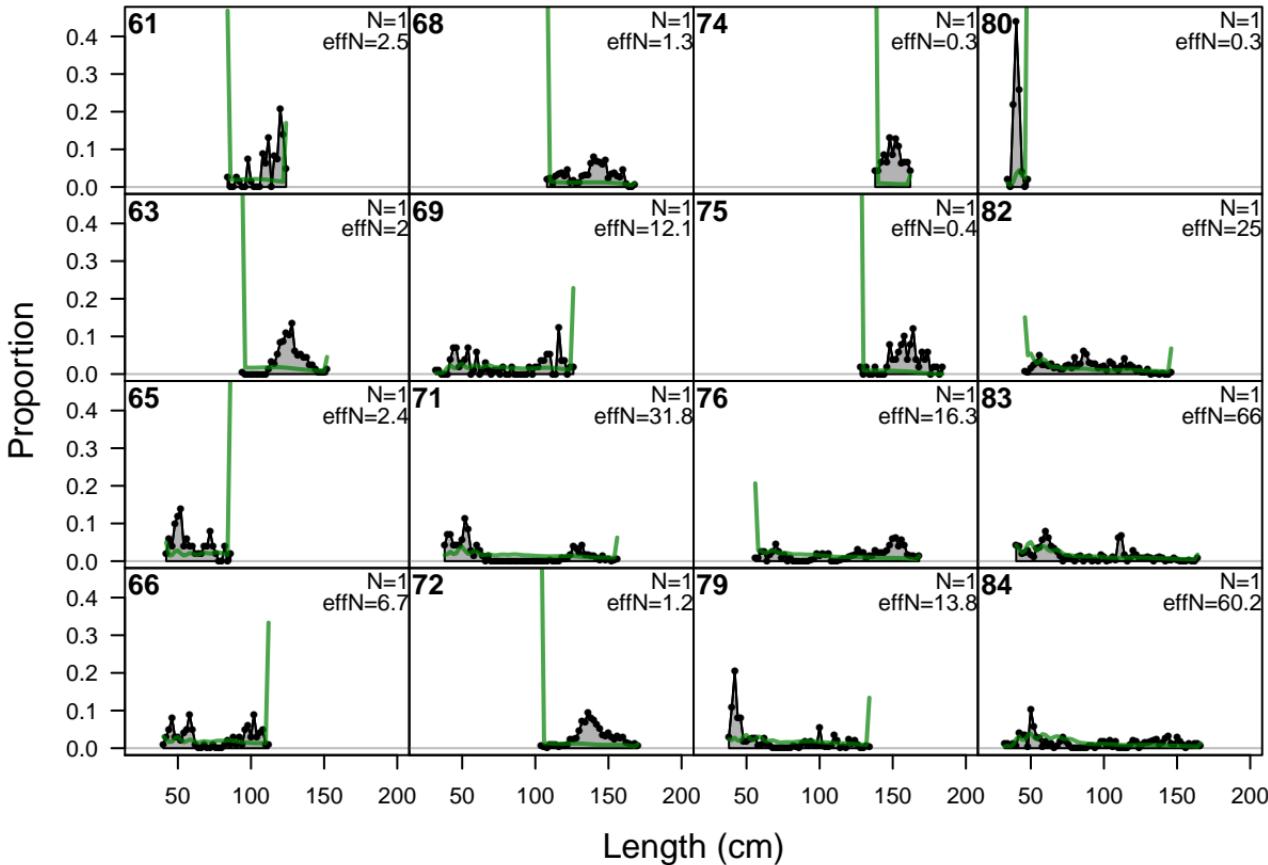




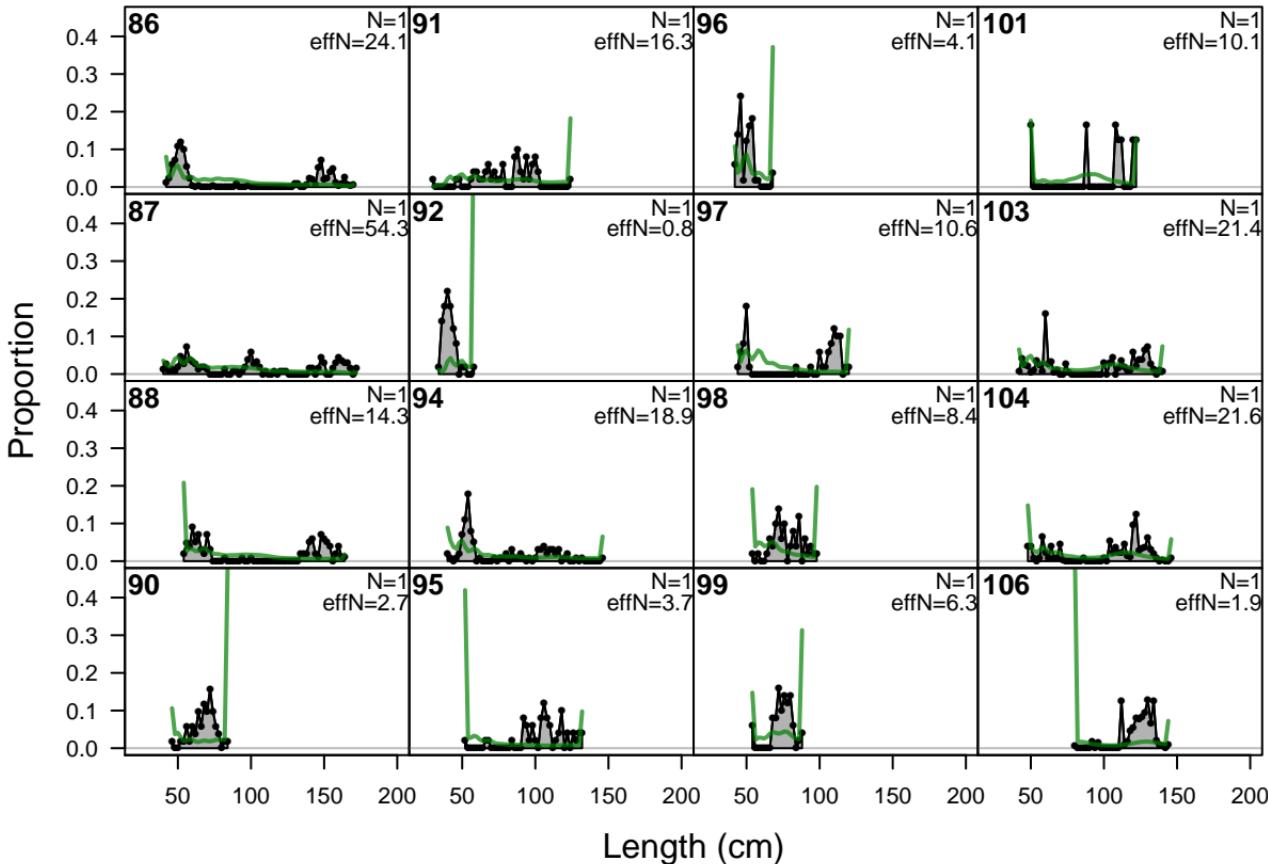
F6-NOA-DEL_early (whole catch)



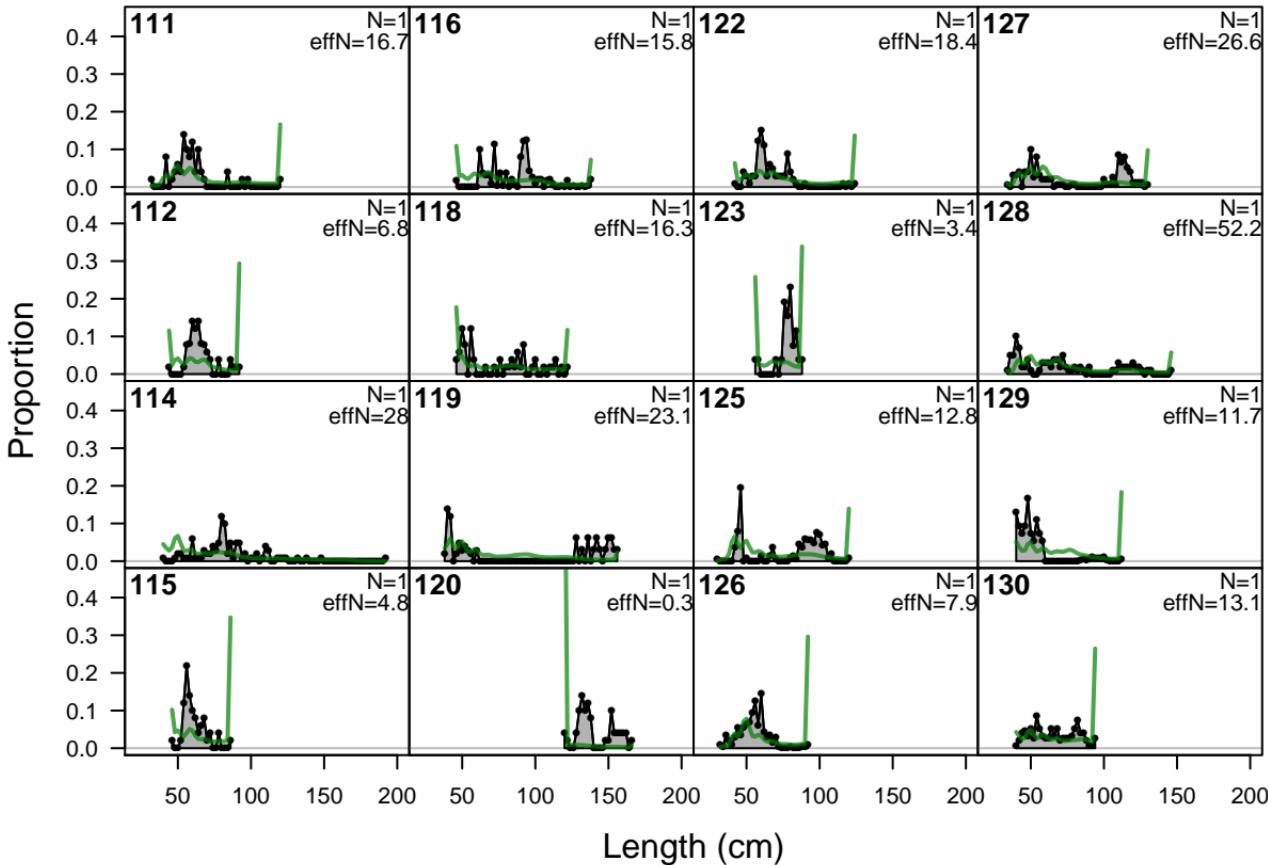
length comps, whole catch, F7–NOA–DEL_late



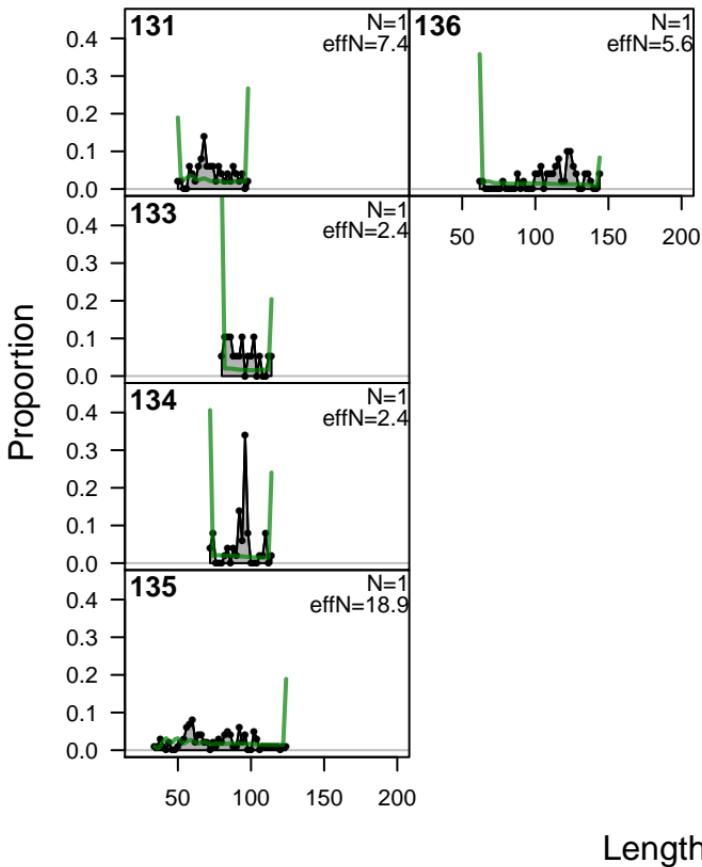
length comps, whole catch, F7–NOA–DEL_late



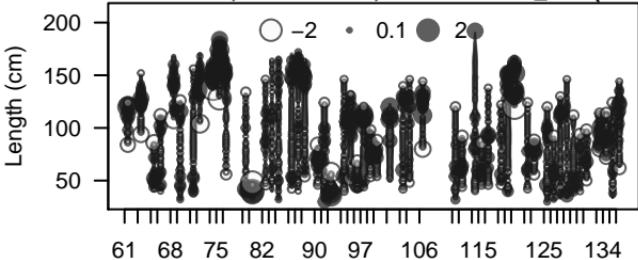
length comps, whole catch, F7–NOA–DEL_late



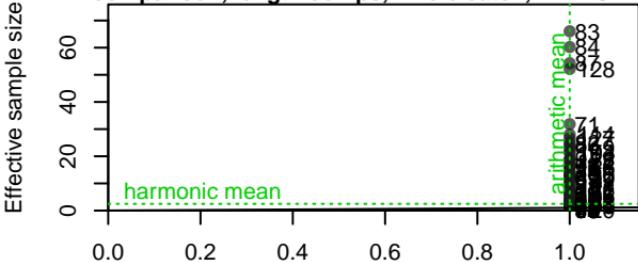
length comps, whole catch, F7–NOA–DEL_late



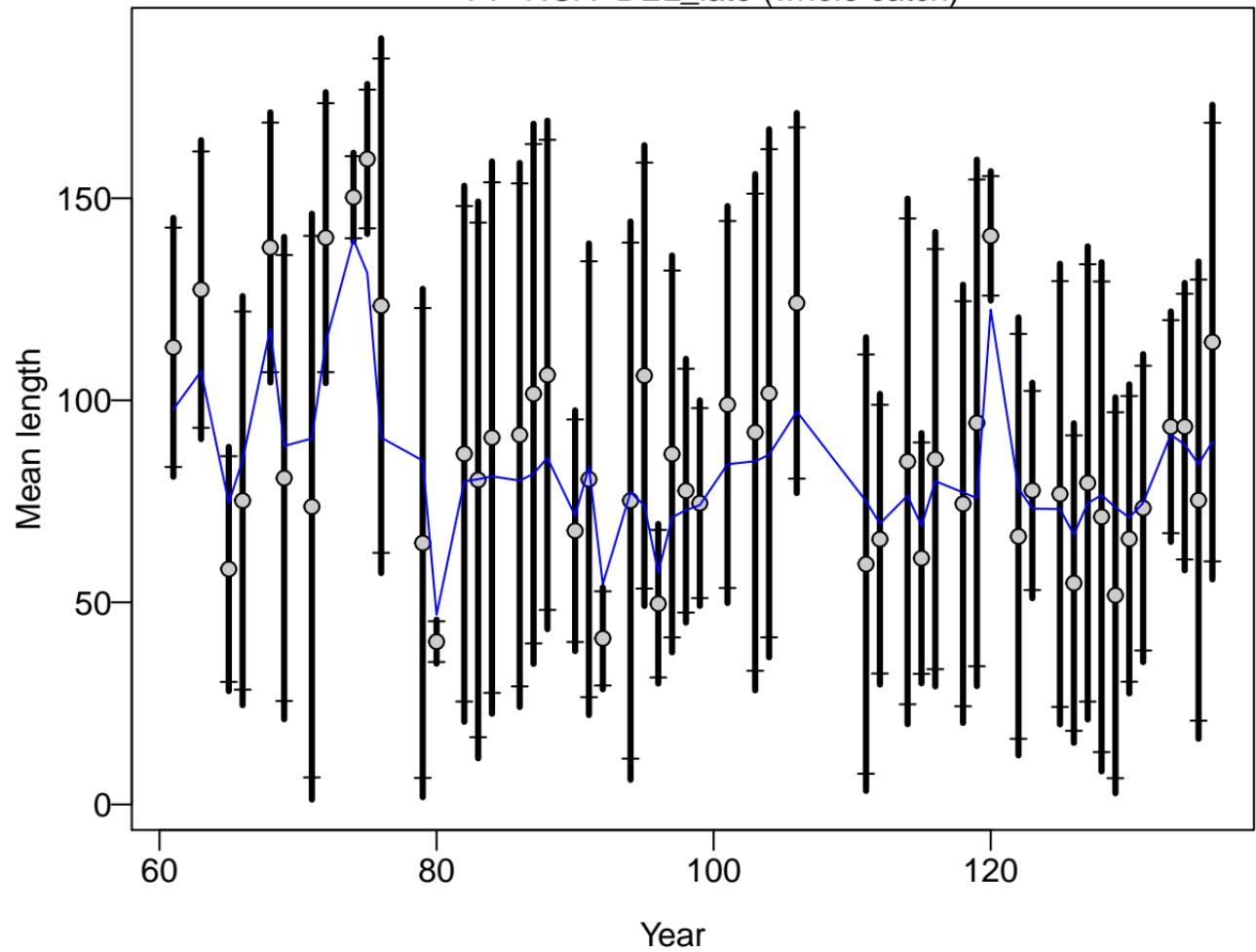
Pearson residuals, whole catch, F7–NOA–DEL_late (max=2)



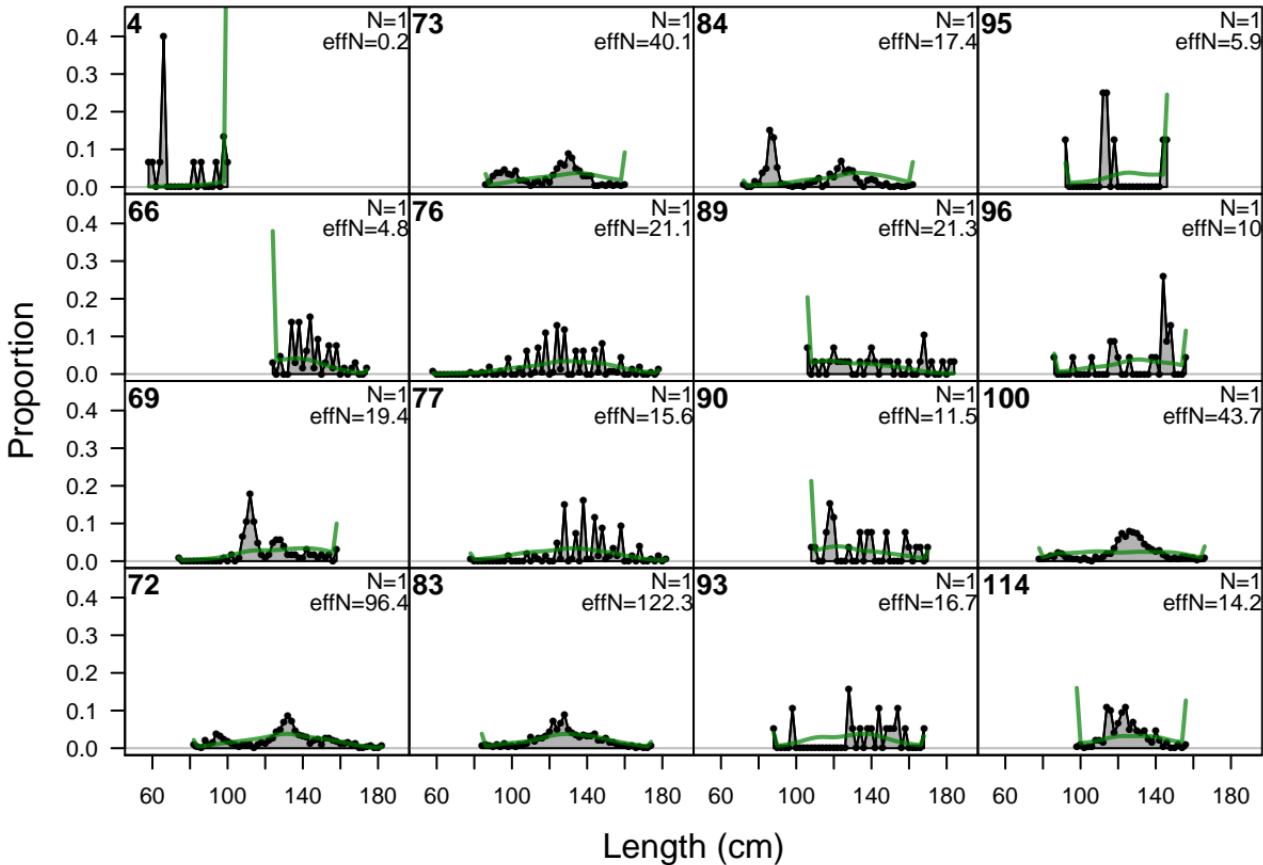
N-EffN comparison, length comps, whole catch, F7–NOA–DE



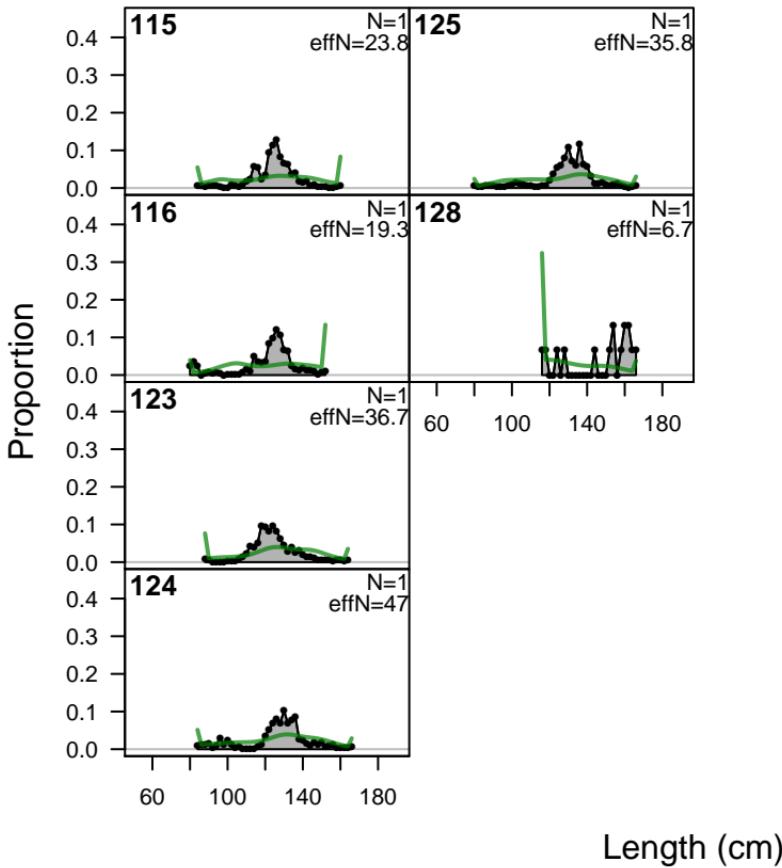
F7-NOA-DEL_late (whole catch)

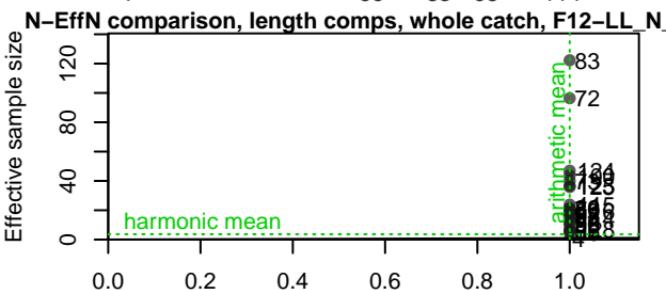
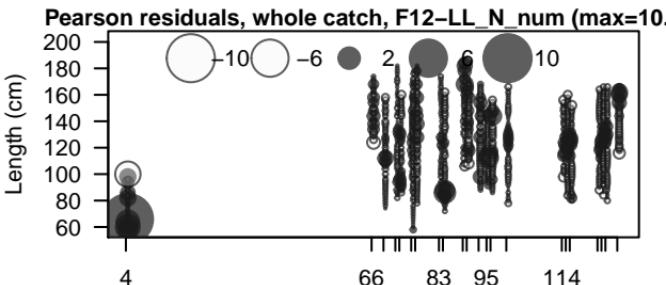


length comps, whole catch, F12-LL_N_num

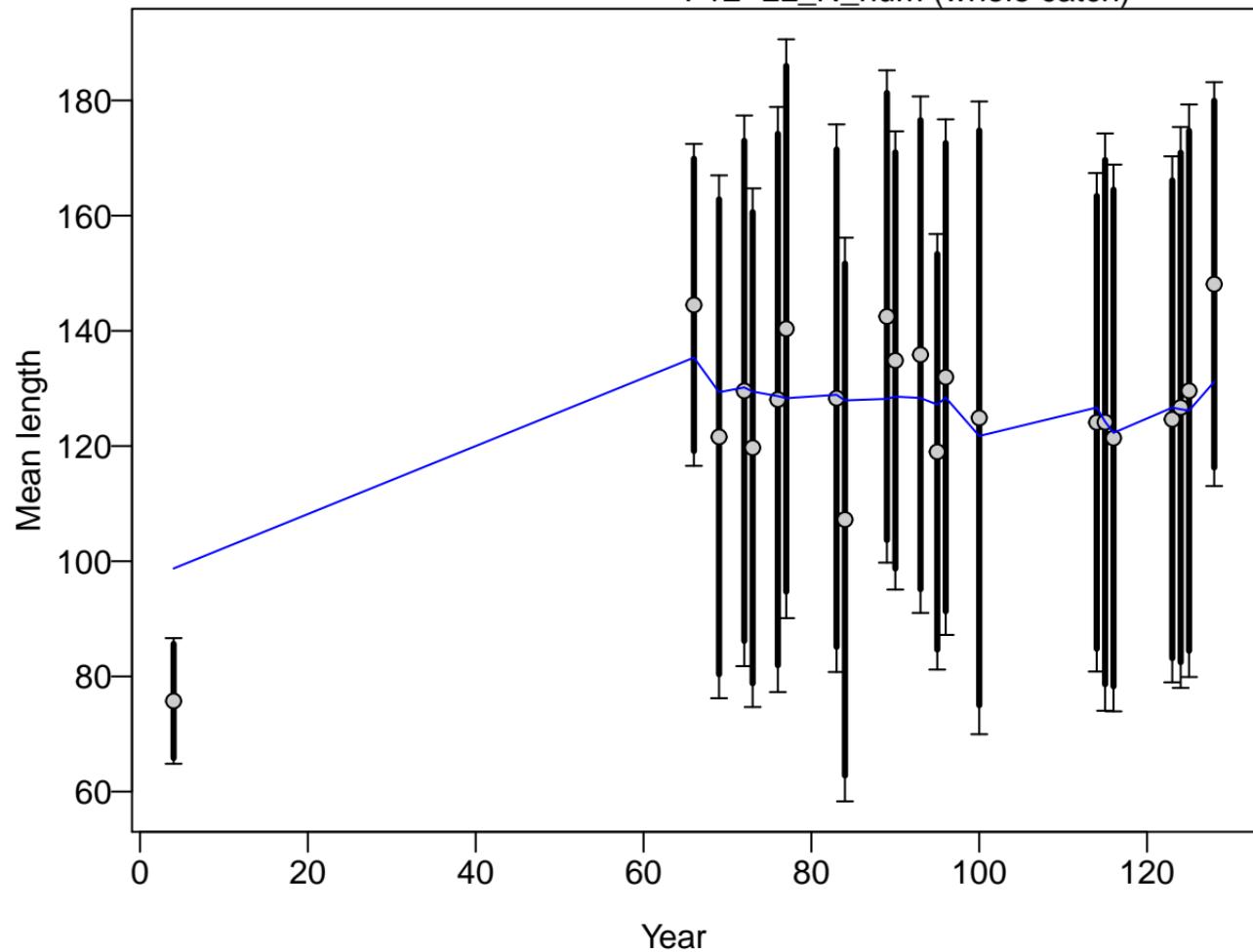


length comps, whole catch, F12-LL_N_num

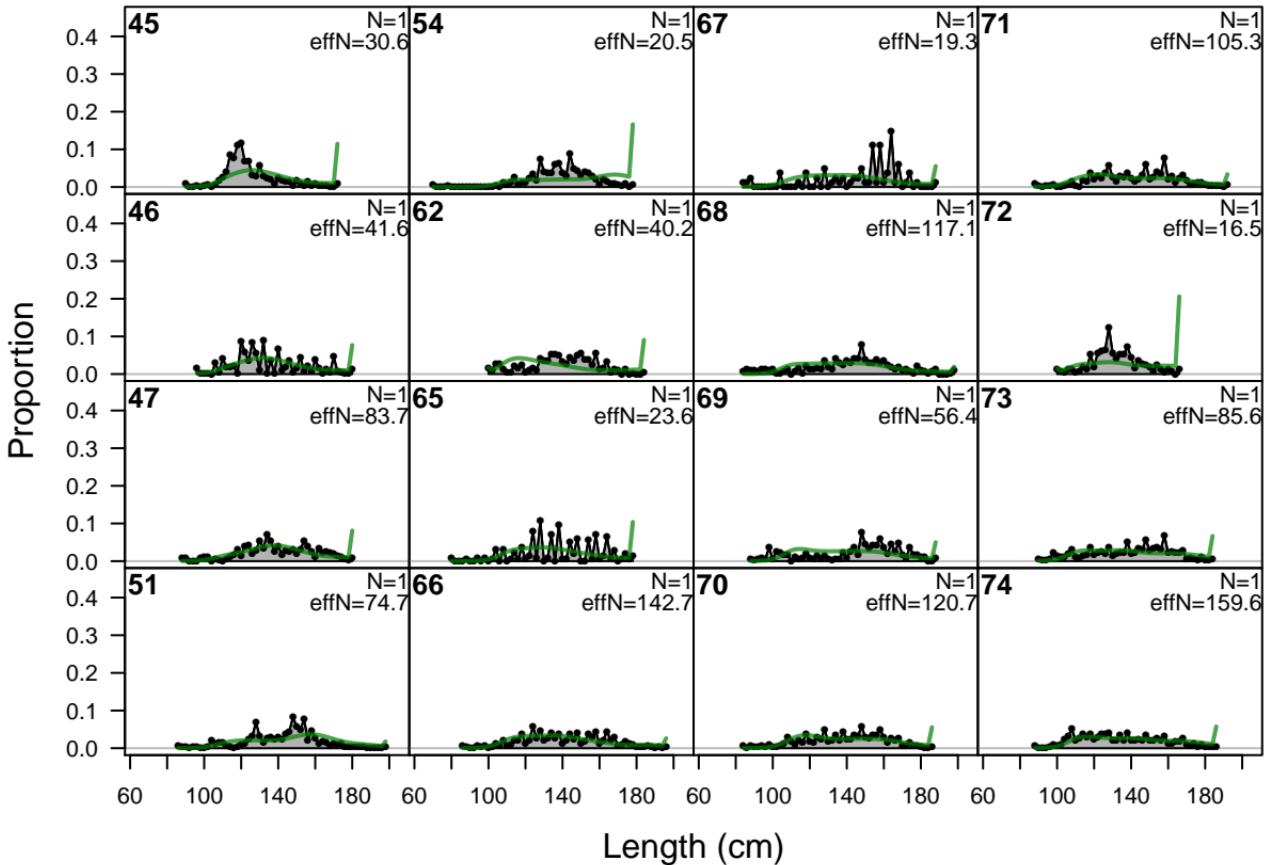




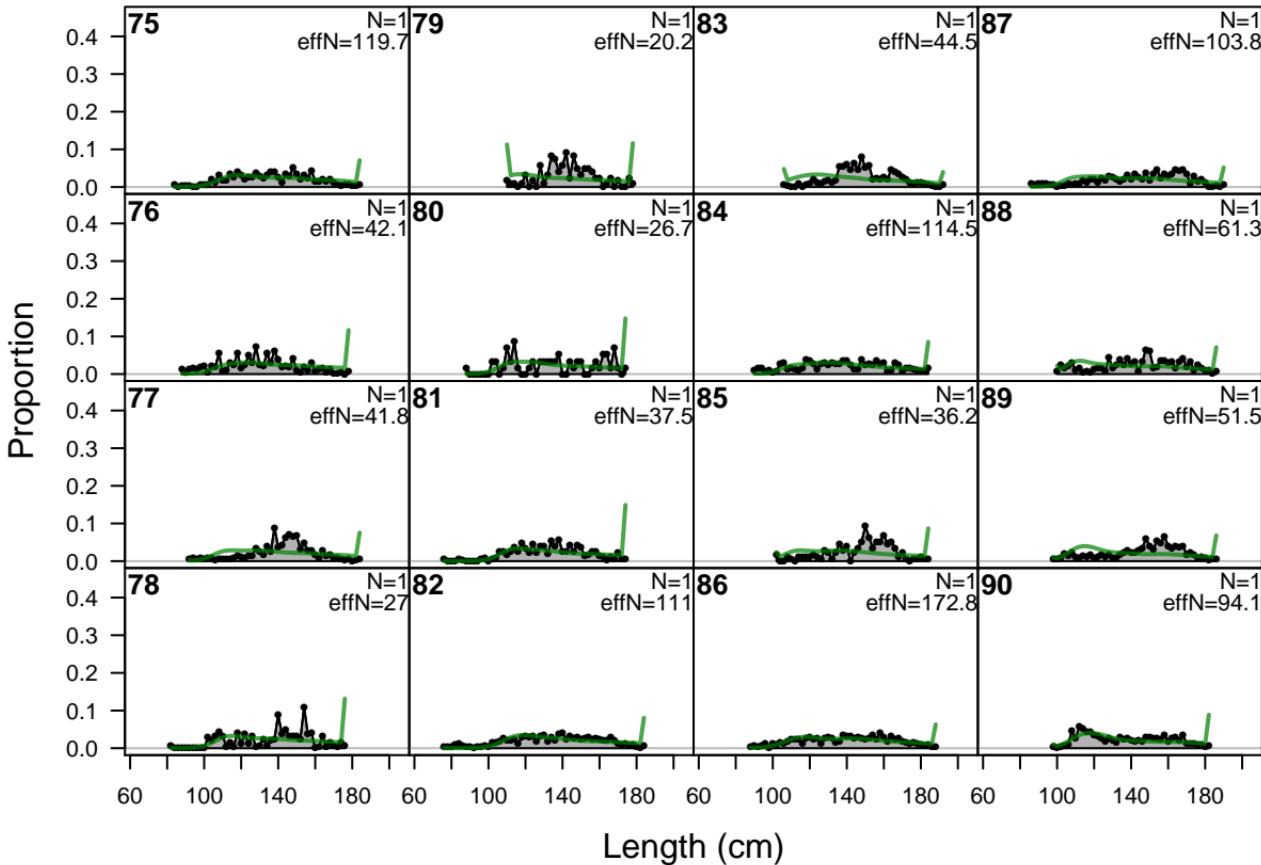
F12-LL_N_num (whole catch)



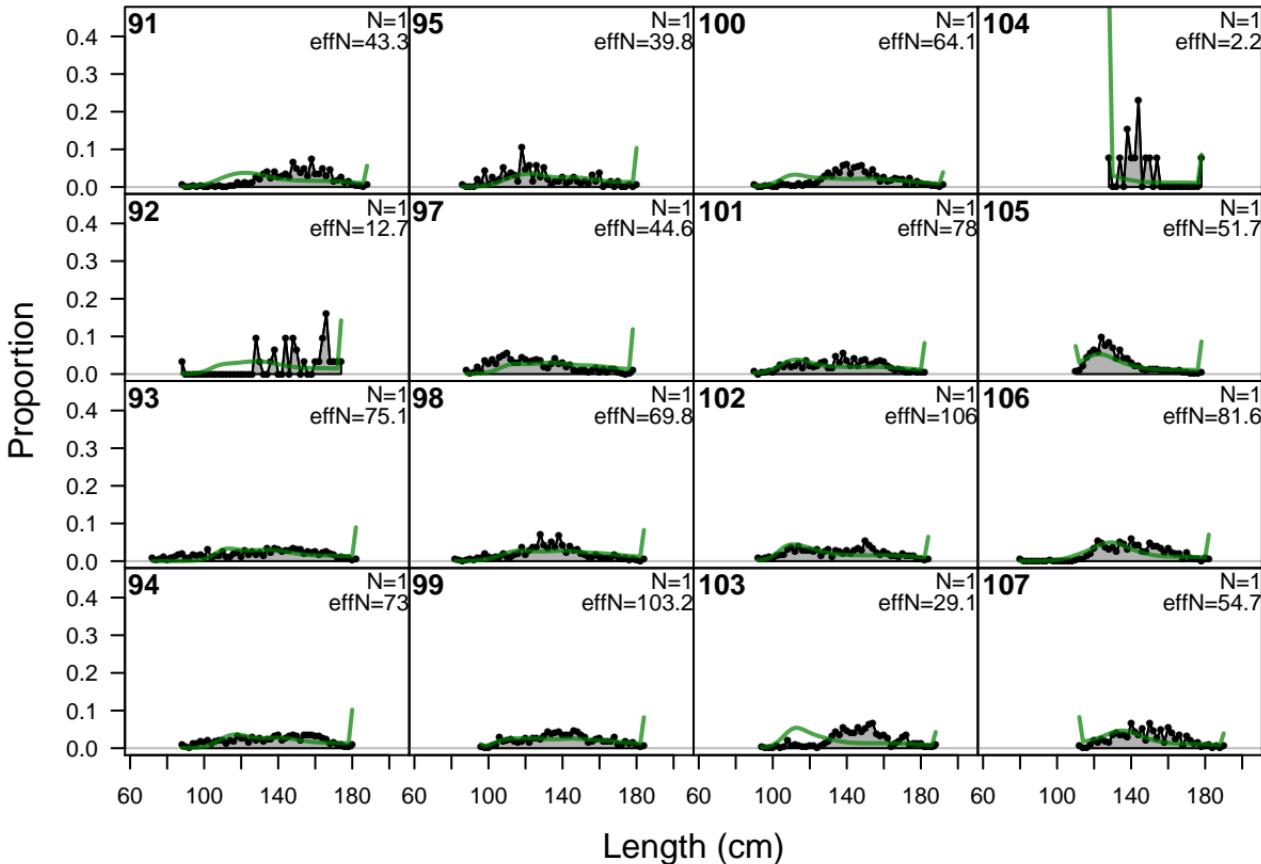
length comps, whole catch, F13-LL_C_num



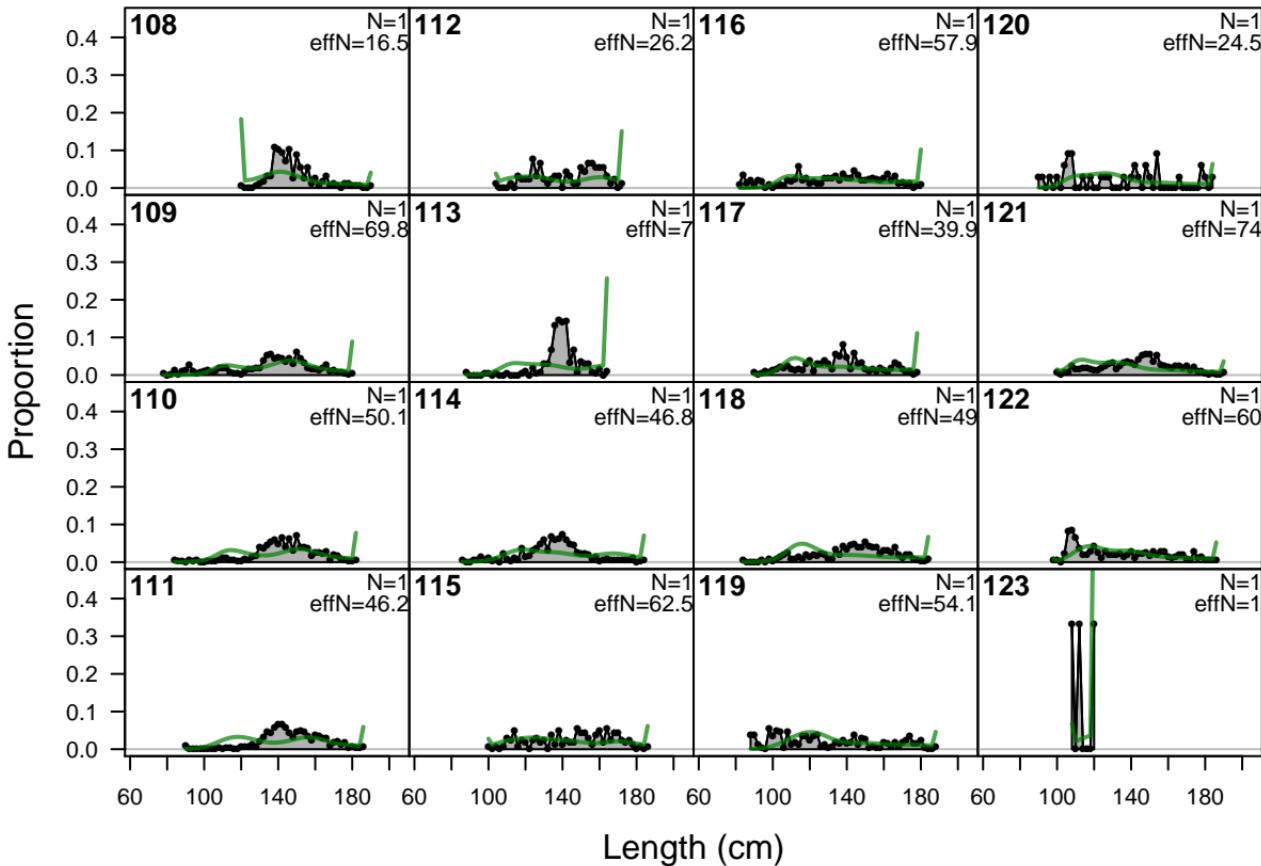
length comps, whole catch, F13-LL_C_num



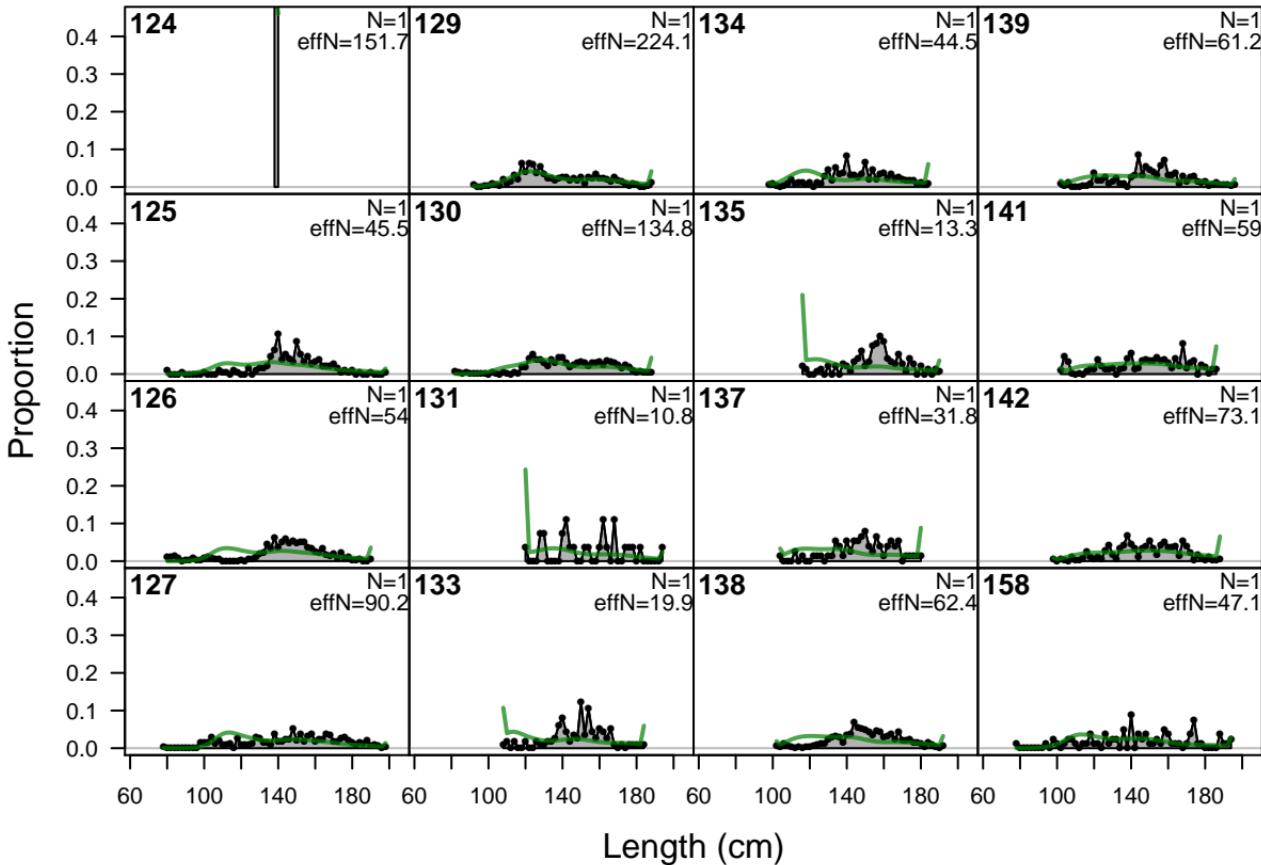
length comps, whole catch, F13-LL_C_num



length comps, whole catch, F13-LL_C_num

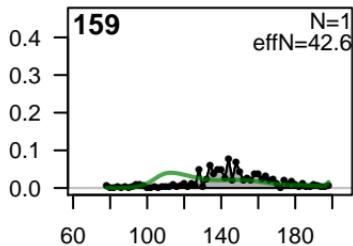


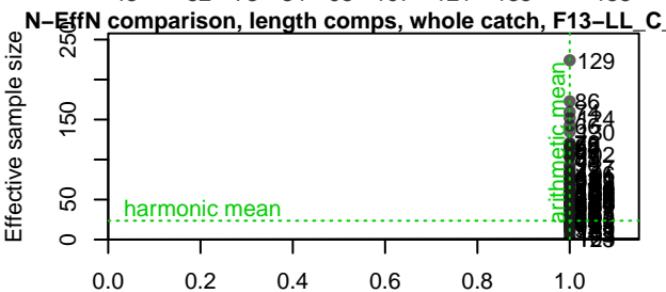
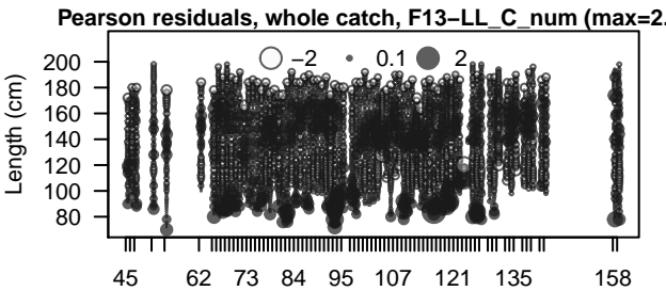
length comps, whole catch, F13-LL_C_num



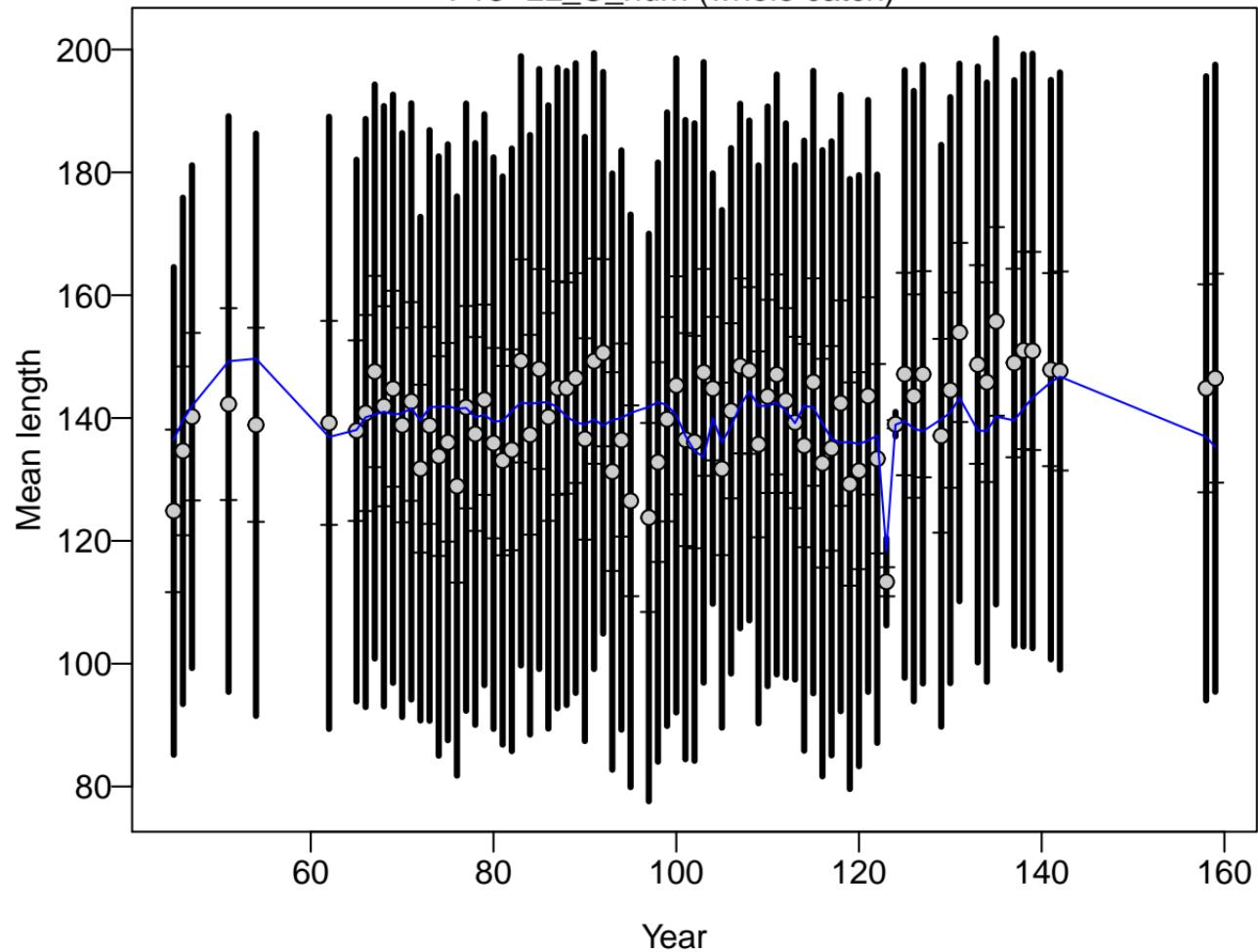
length comps, whole catch, F13-LL_C_num

Proportion

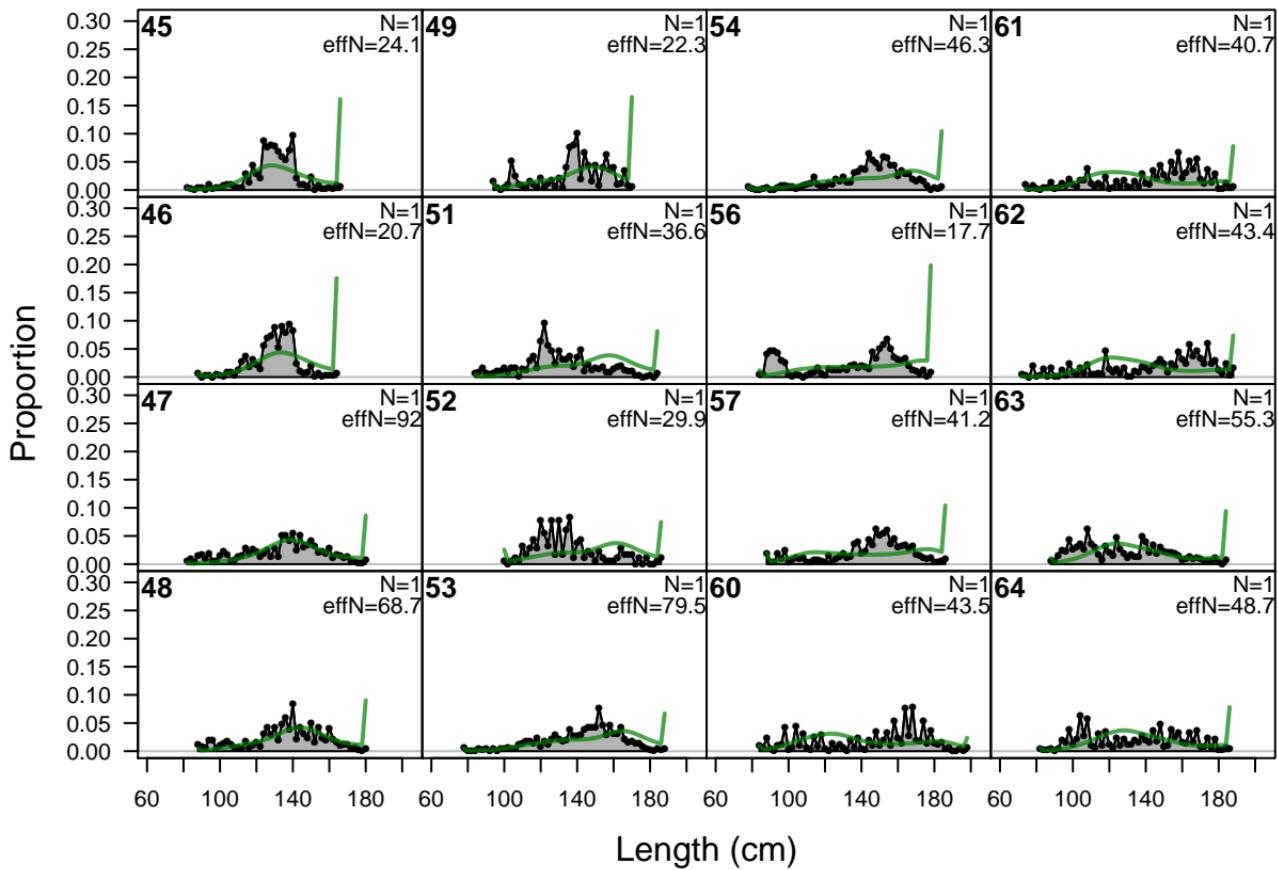




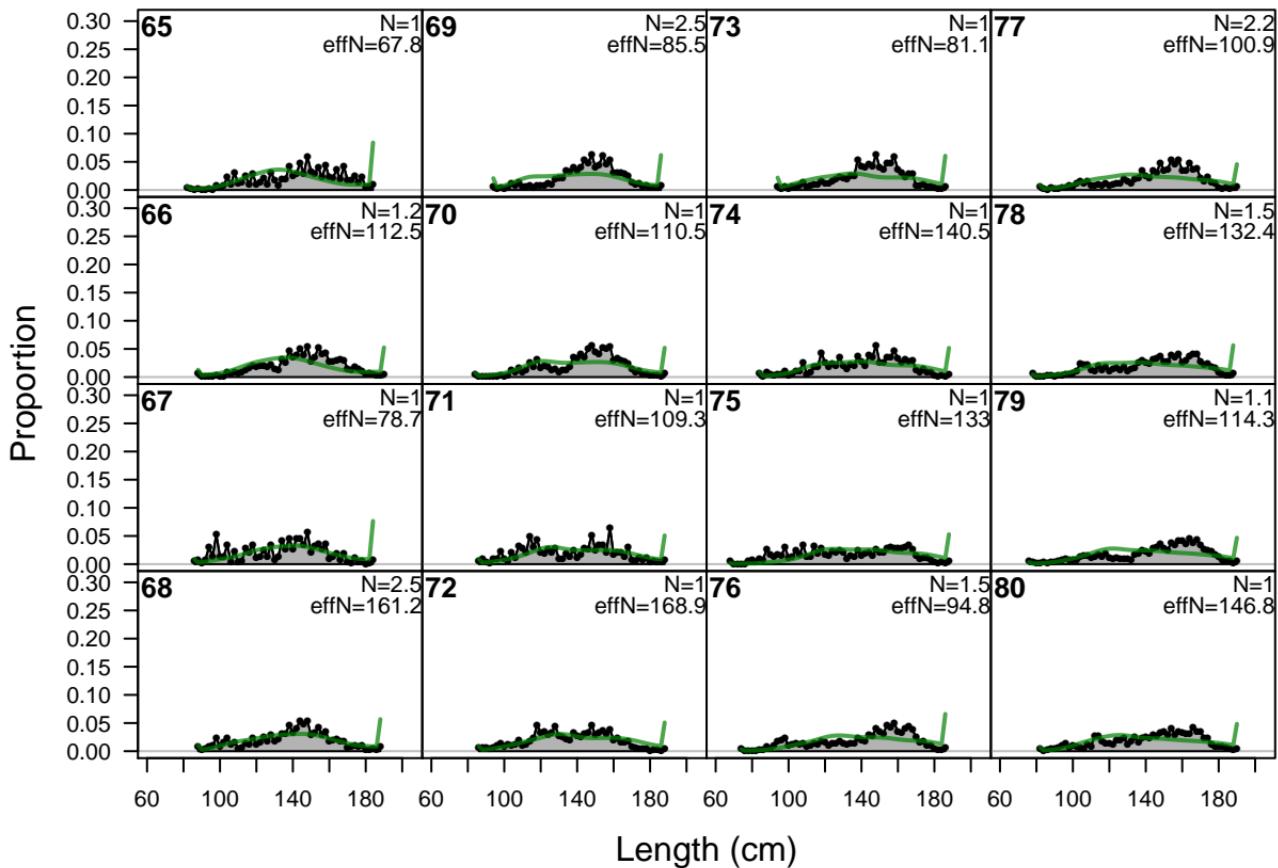
F13-LL_C_num (whole catch)



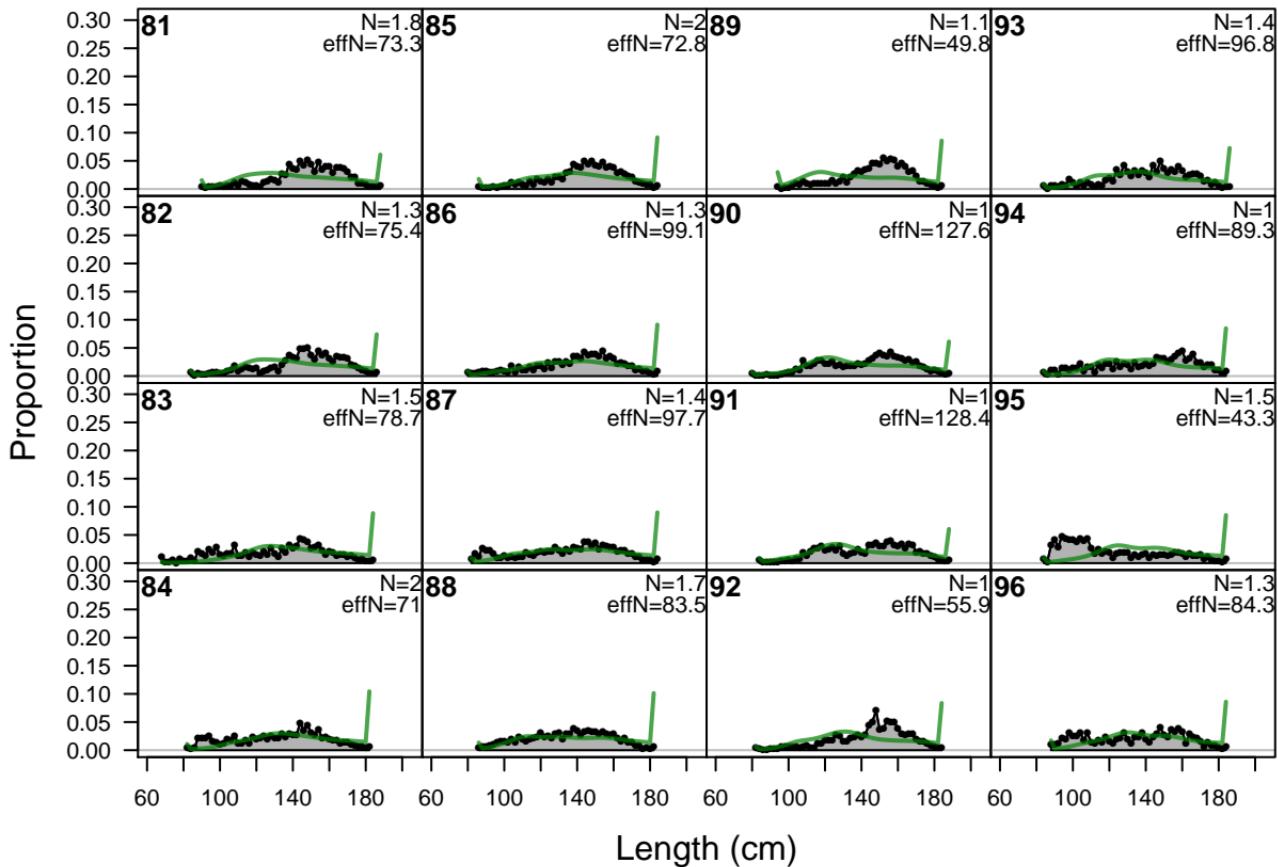
length comps, whole catch, F14-LL_S_num



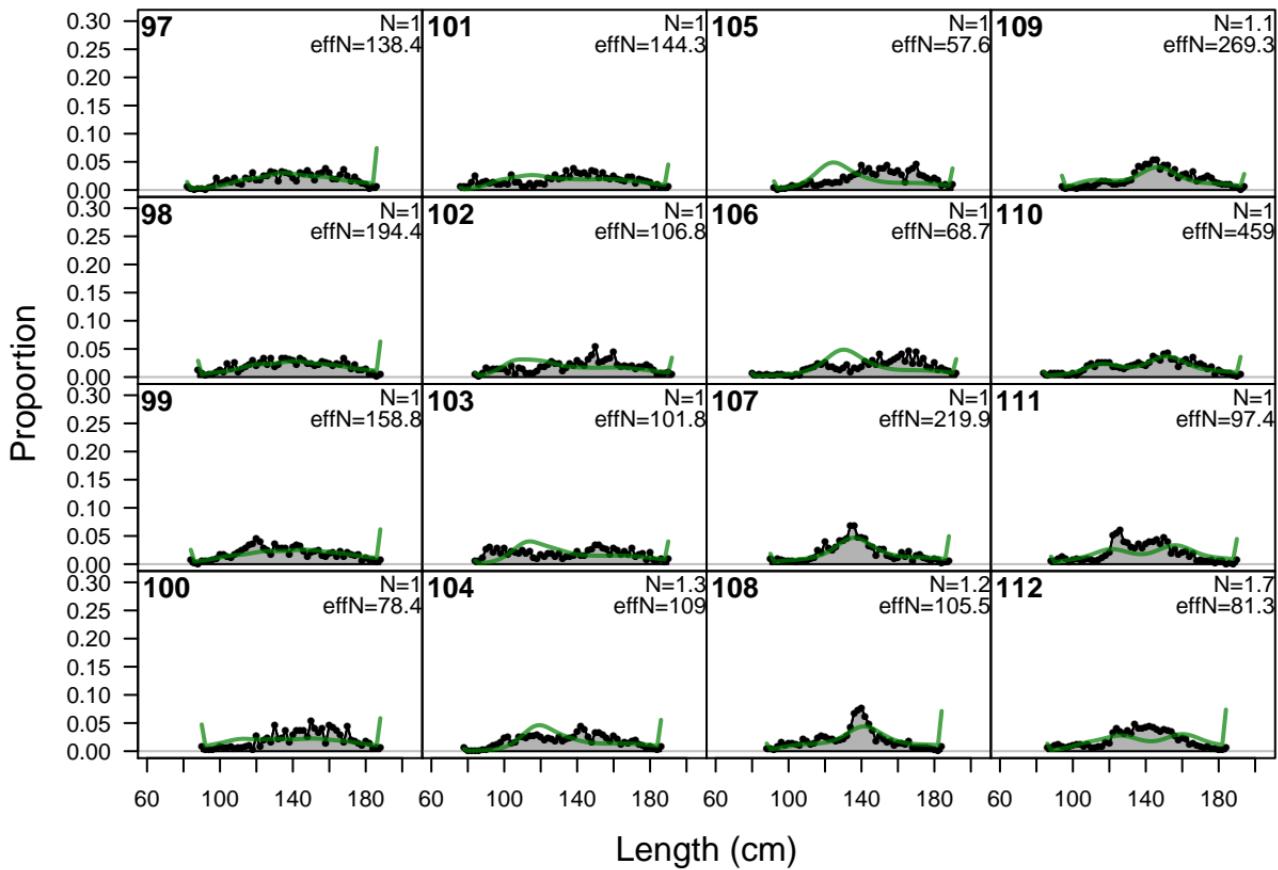
length comps, whole catch, F14-LL_S_num



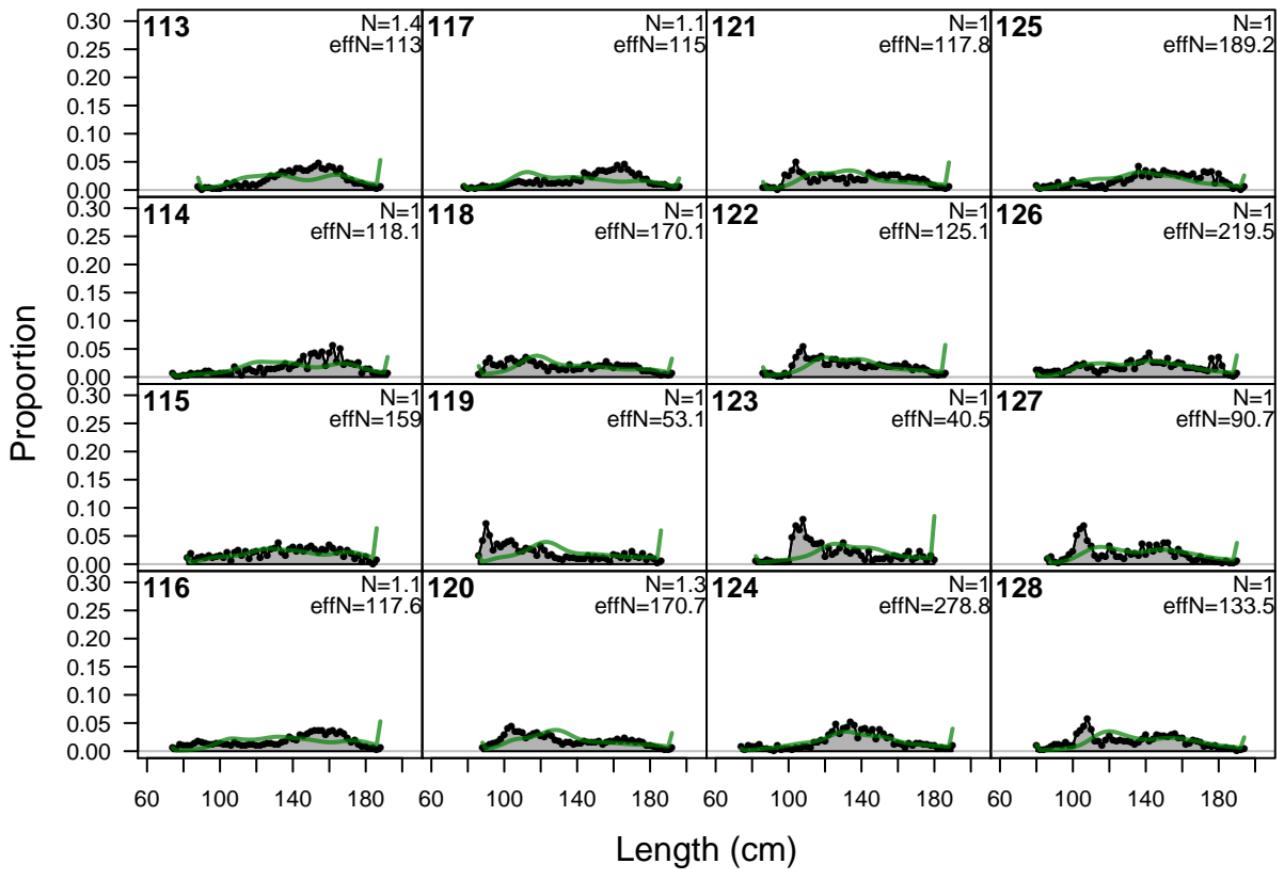
length comps, whole catch, F14-LL_S_num



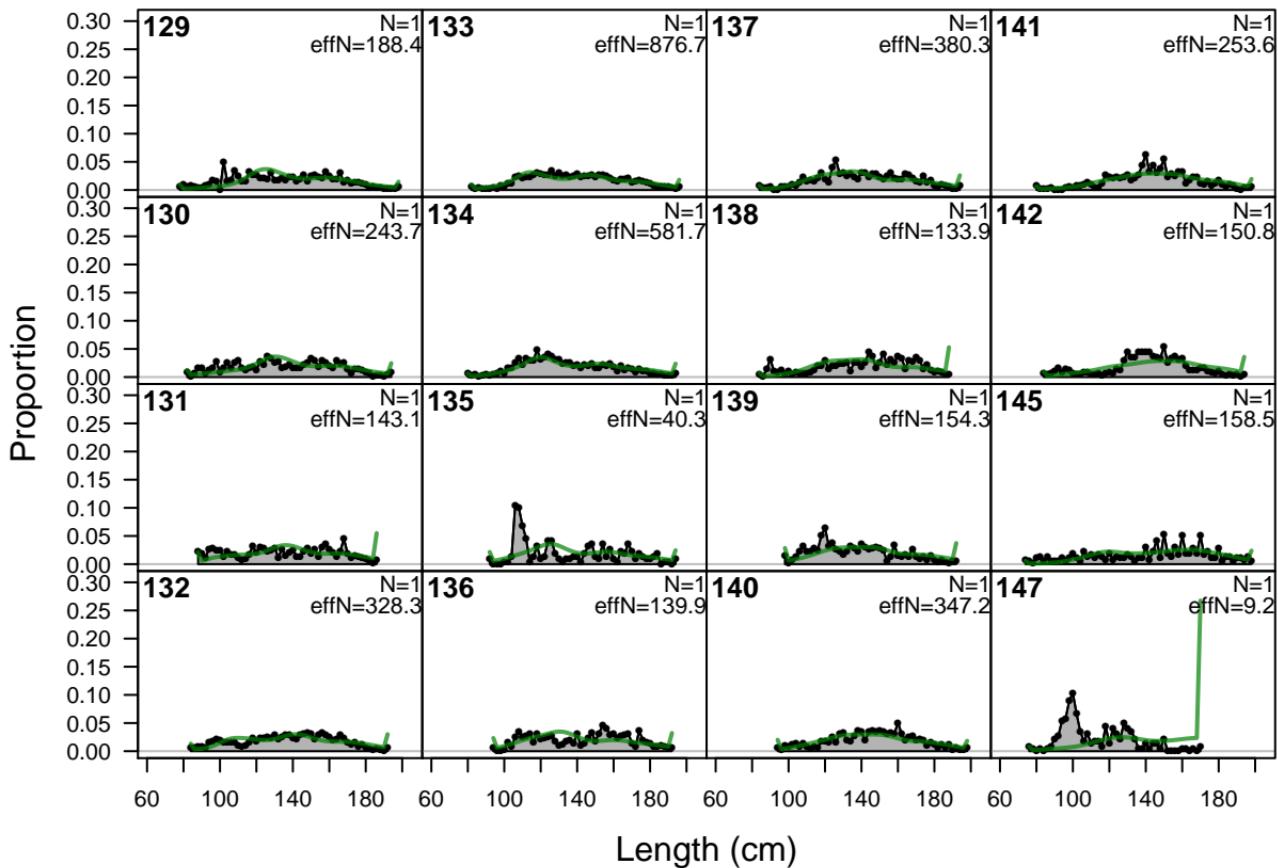
length comps, whole catch, F14-LL_S_num



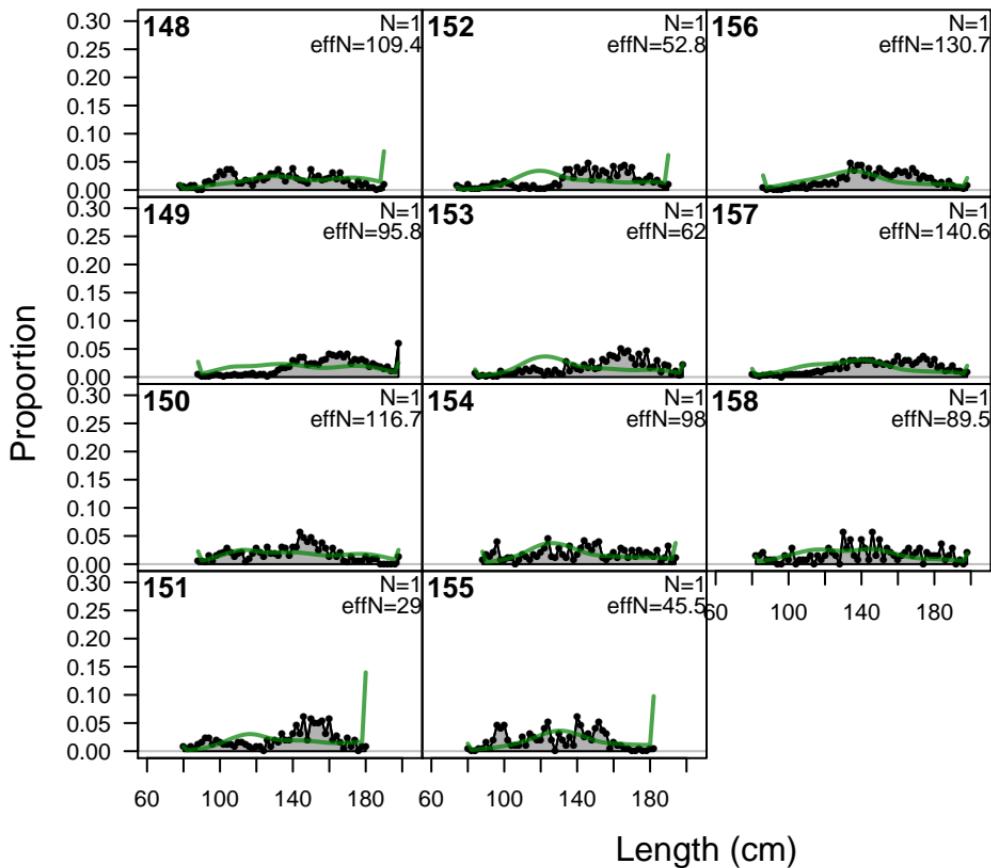
length comps, whole catch, F14-LL_S_num

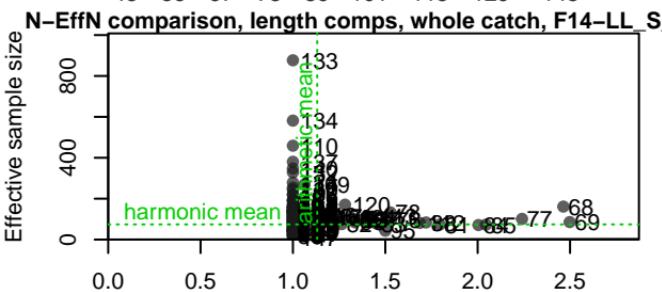
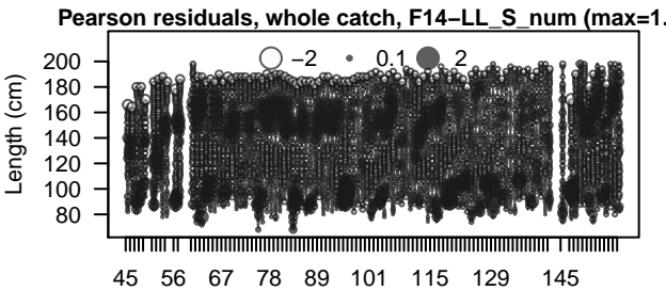


length comps, whole catch, F14-LL_S_num

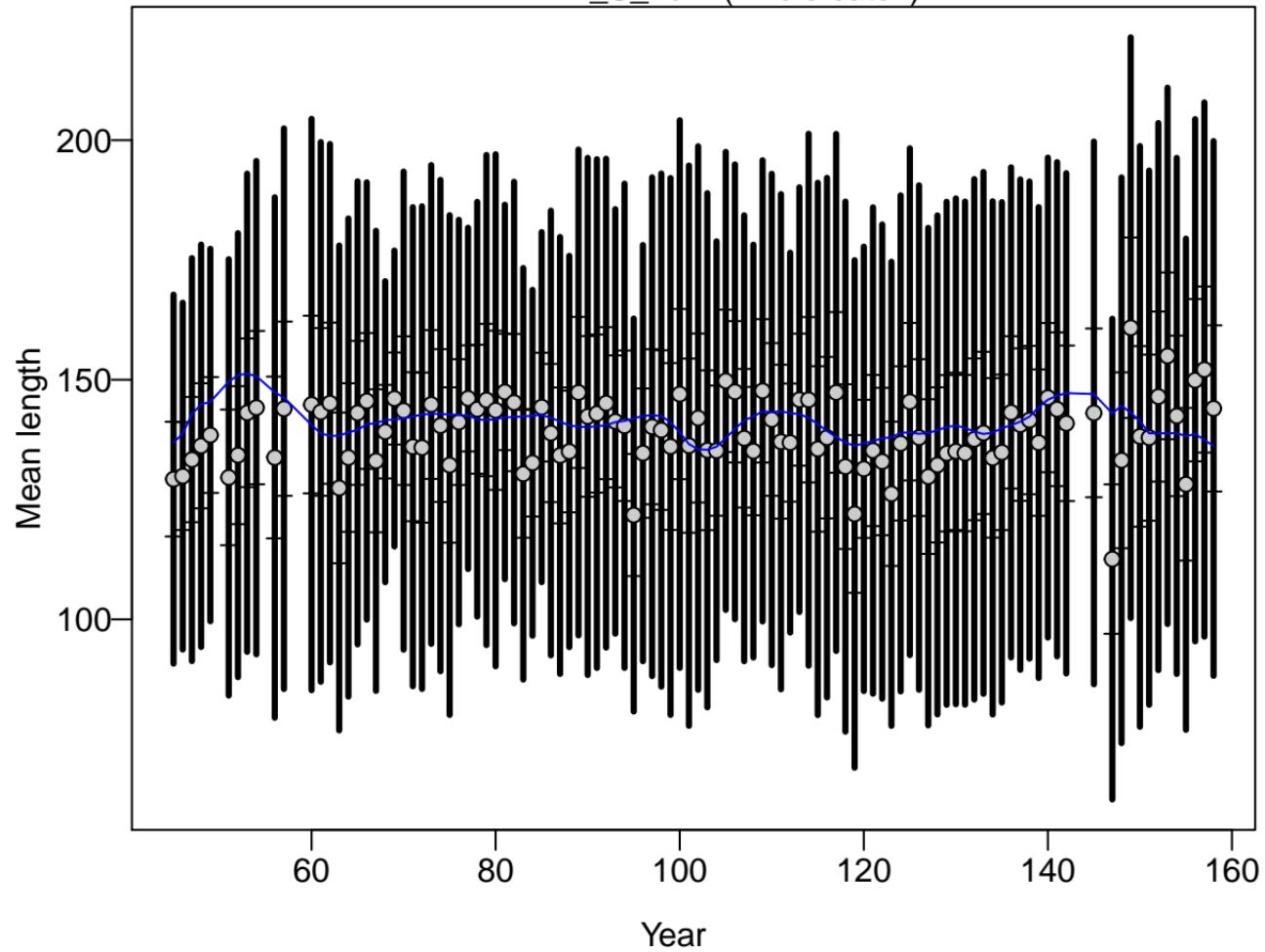


length comps, whole catch, F14-LL_S_num

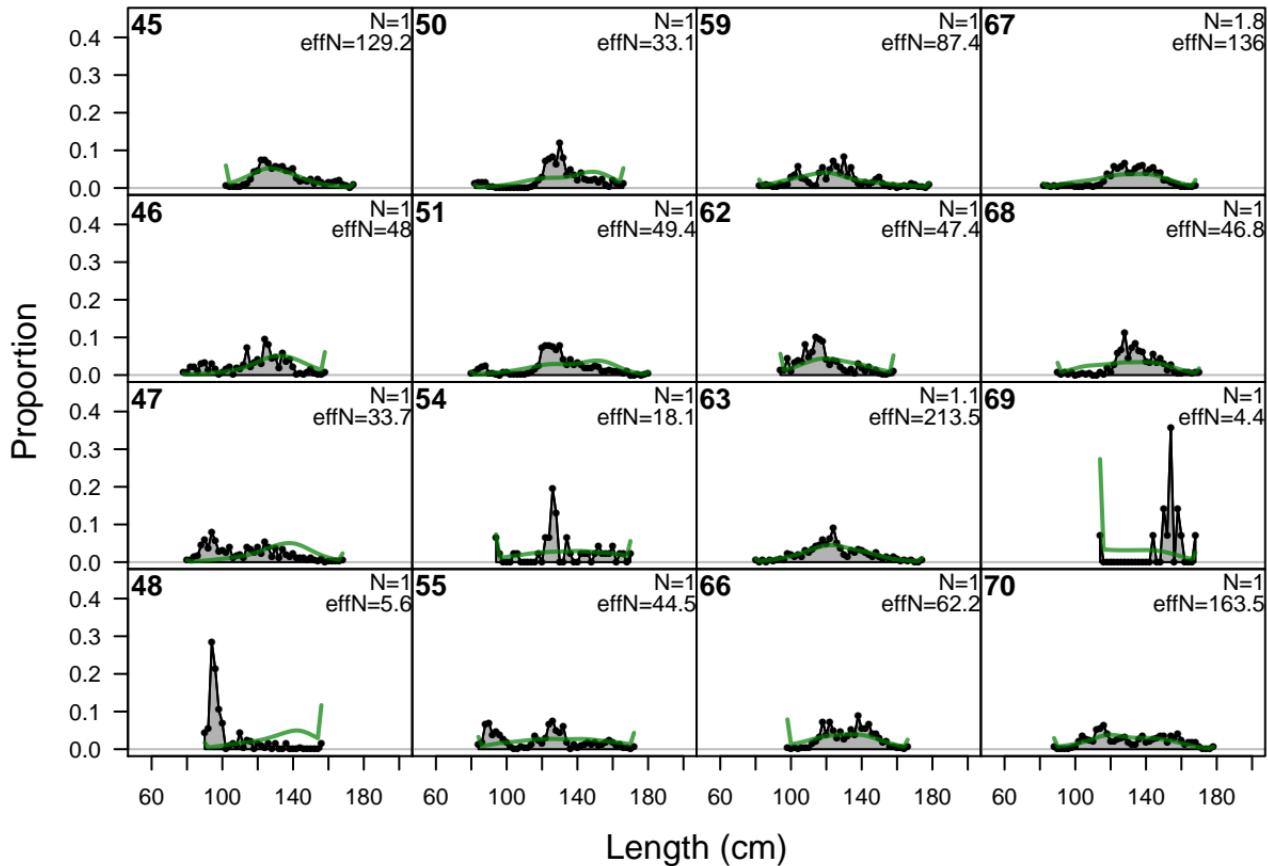




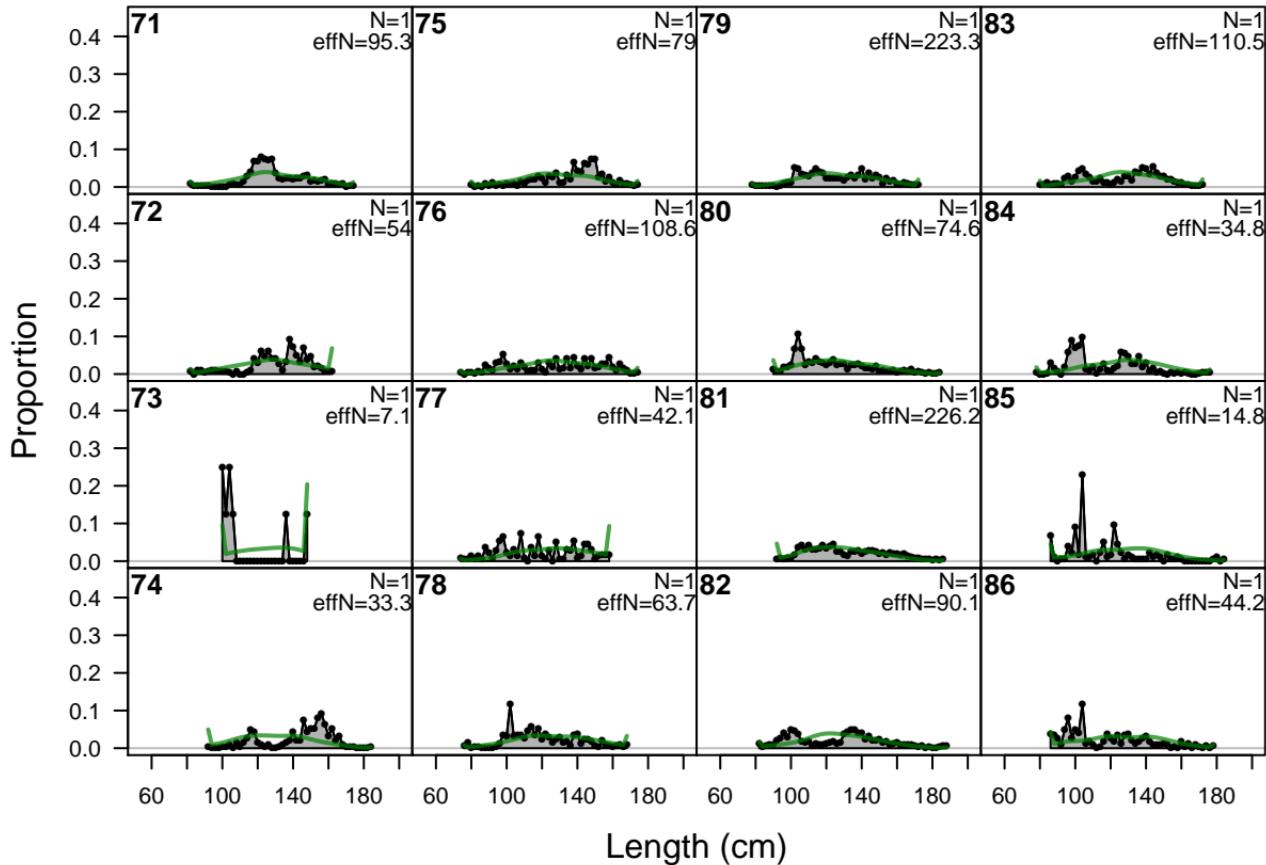
F14-LL_S_num (whole catch)



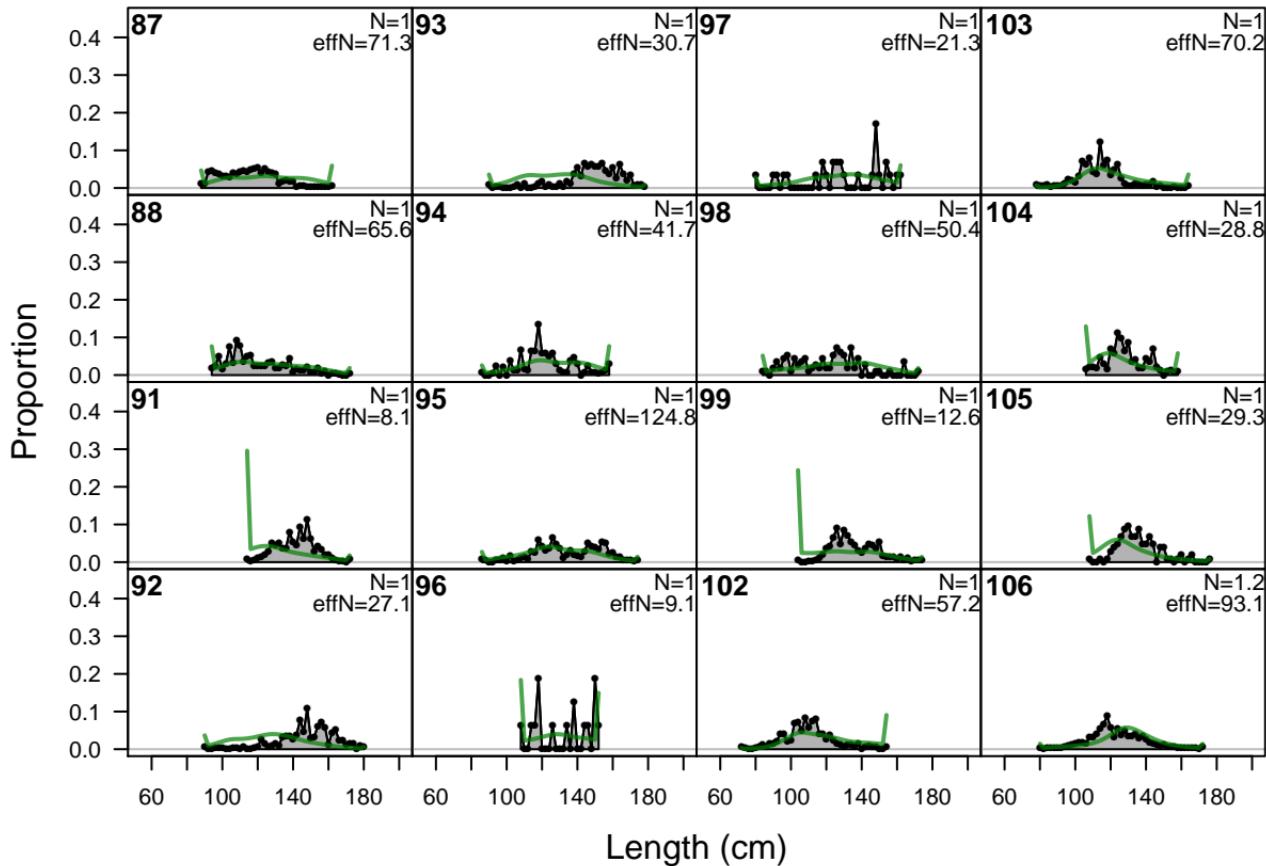
length comps, whole catch, F15-LL_I_num



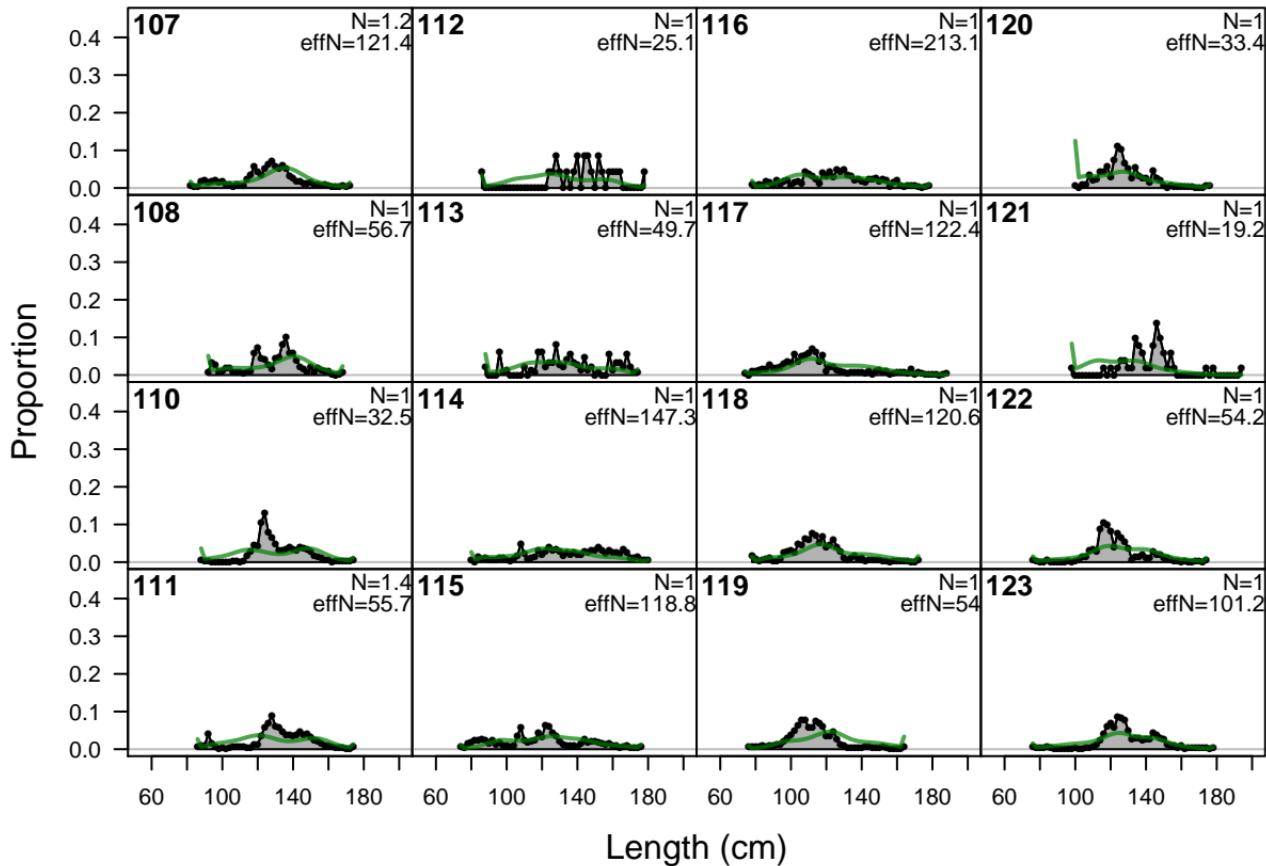
length comps, whole catch, F15-LL_I_num



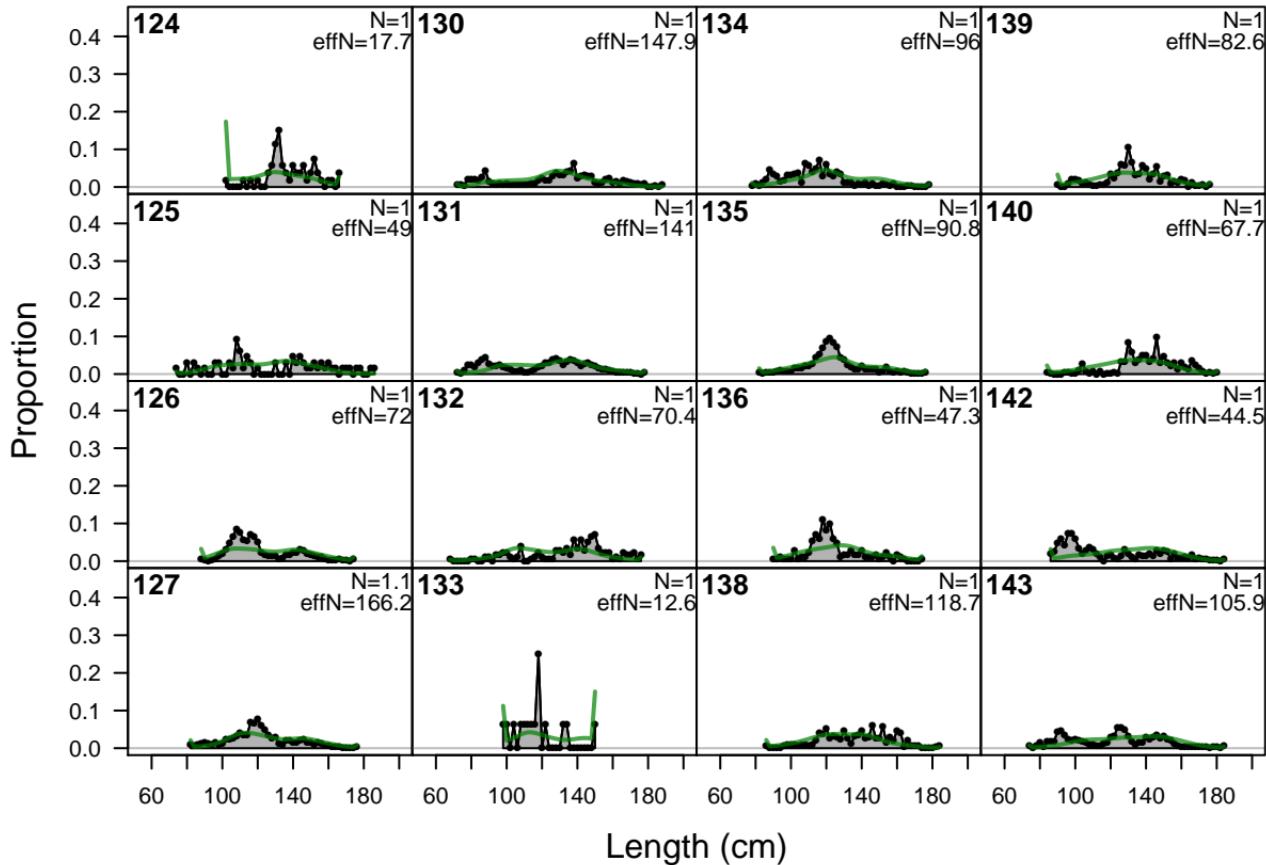
length comps, whole catch, F15-LL_I_num



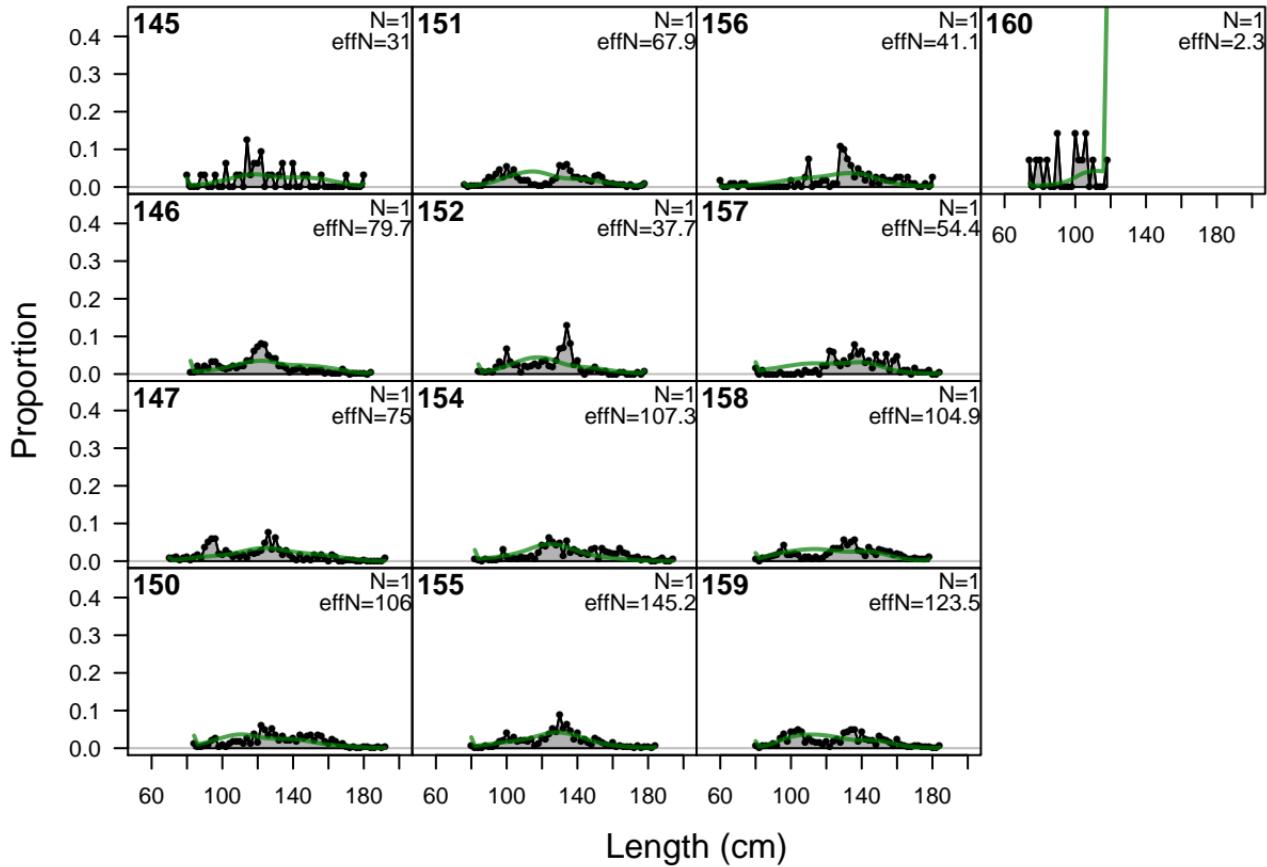
length comps, whole catch, F15-LL_I_num

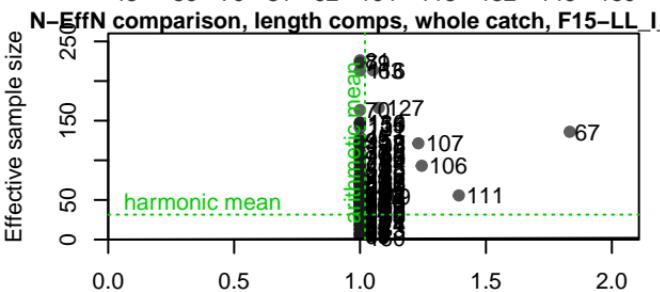
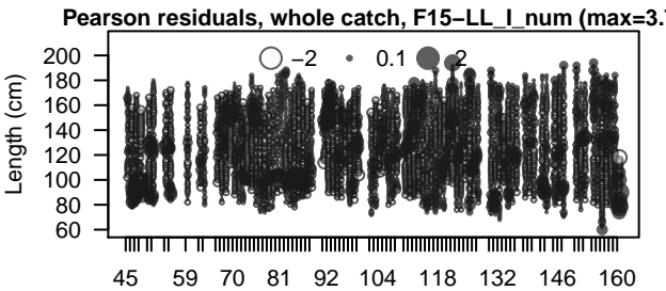


length comps, whole catch, F15-LL_I_num

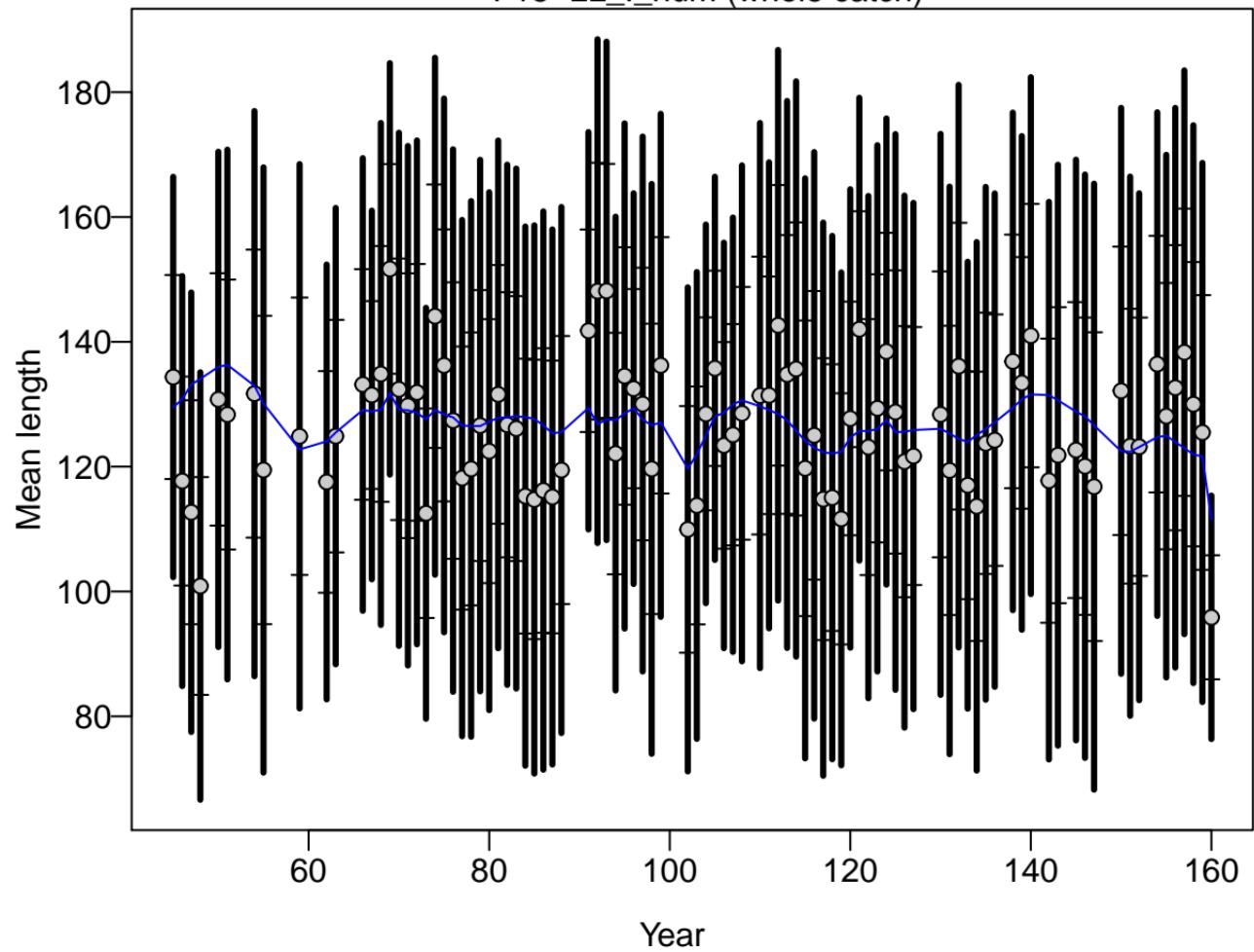


length comps, whole catch, F15-LL_I_num

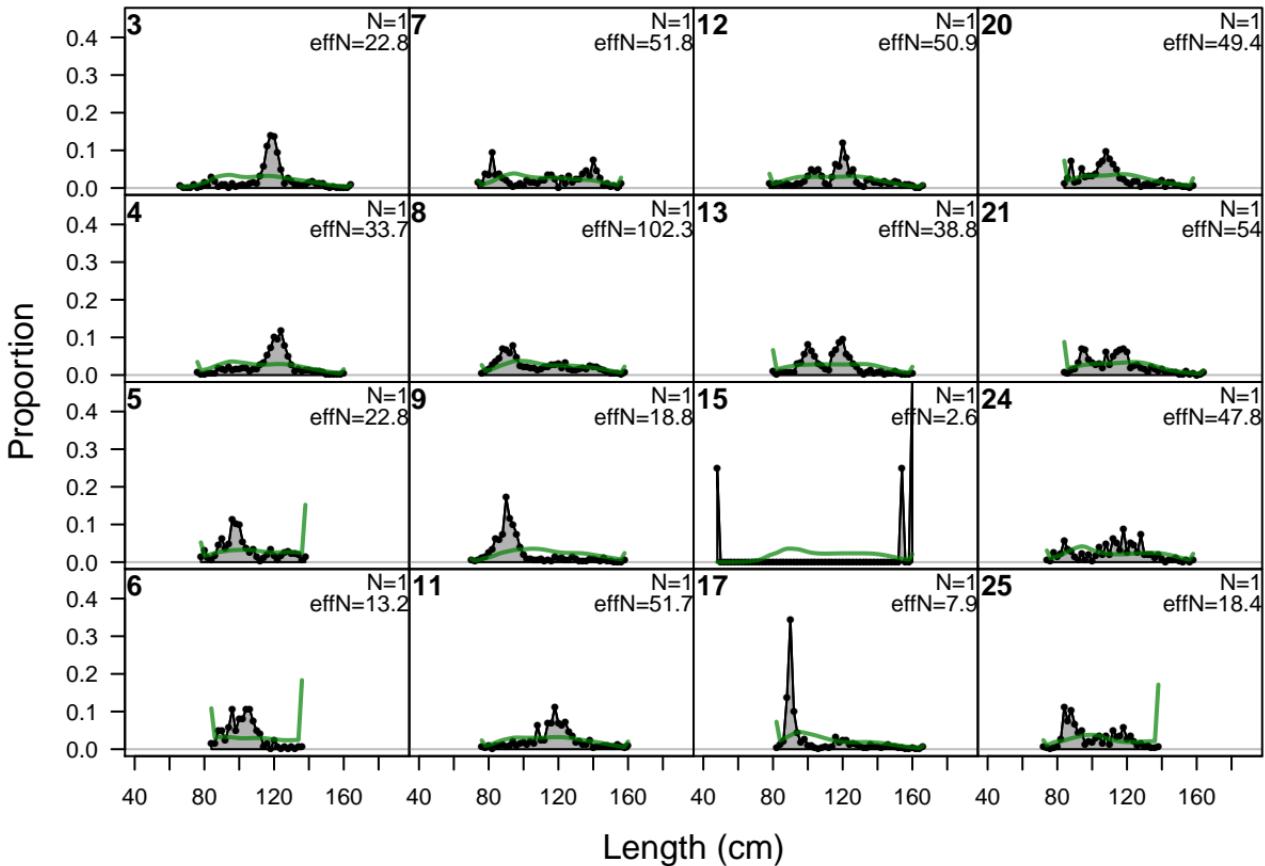




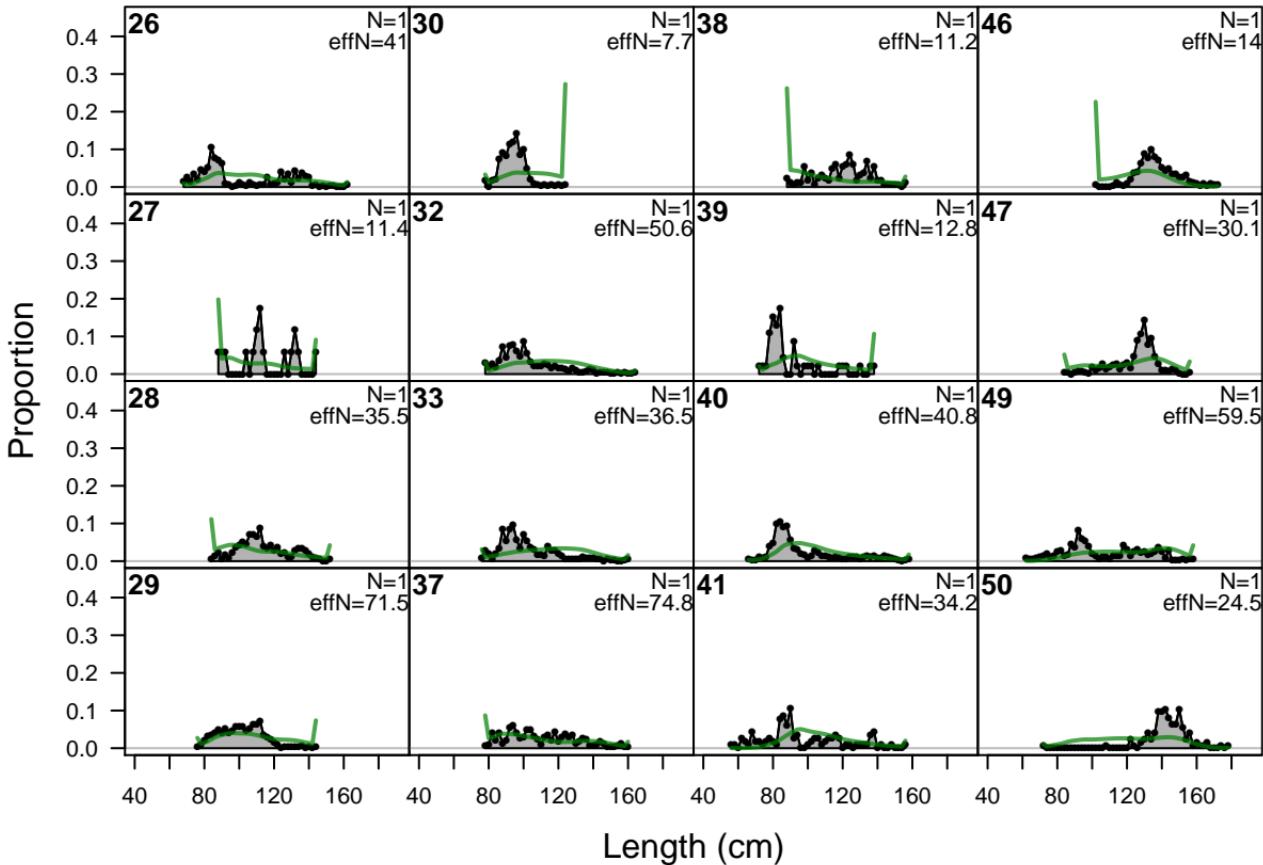
F15-LL_I_num (whole catch)



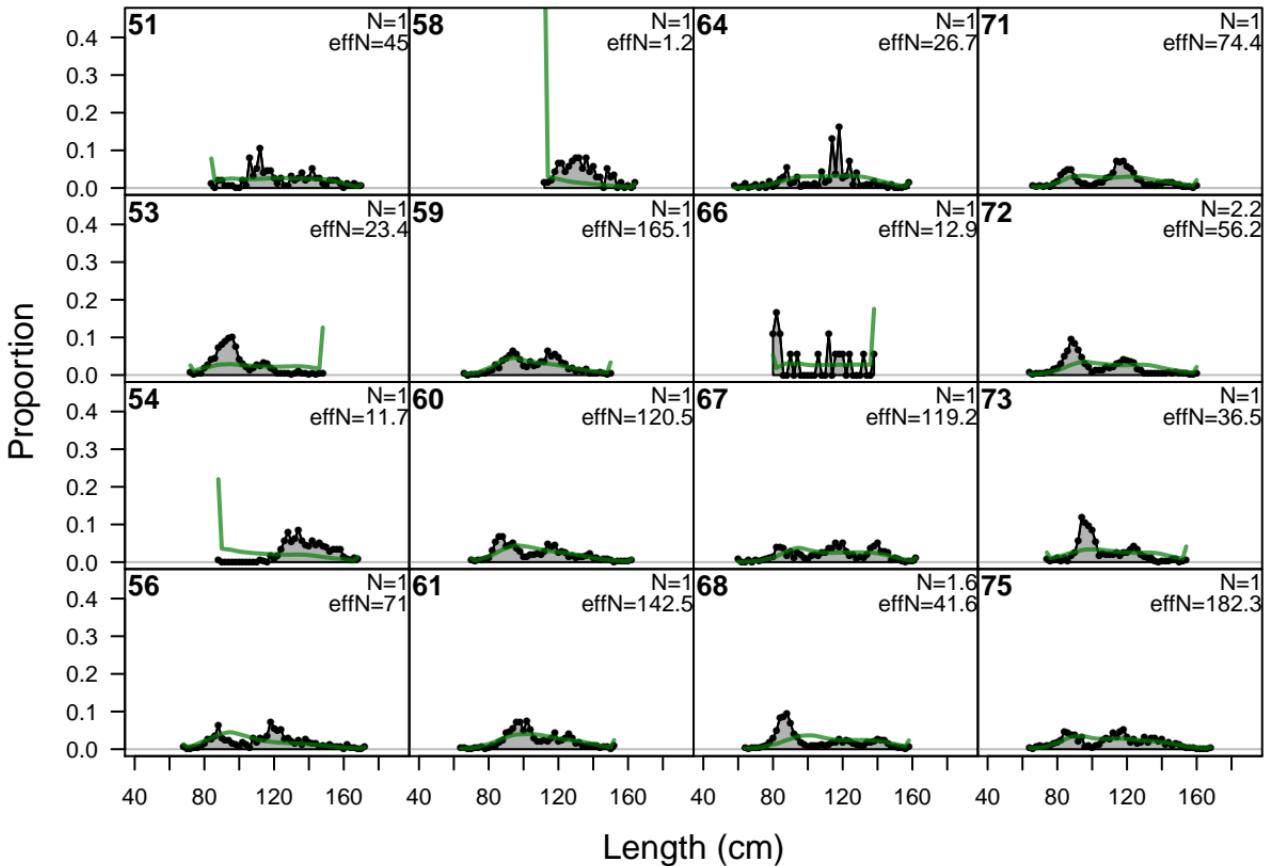
length comps, whole catch, S1-LLt_N_len



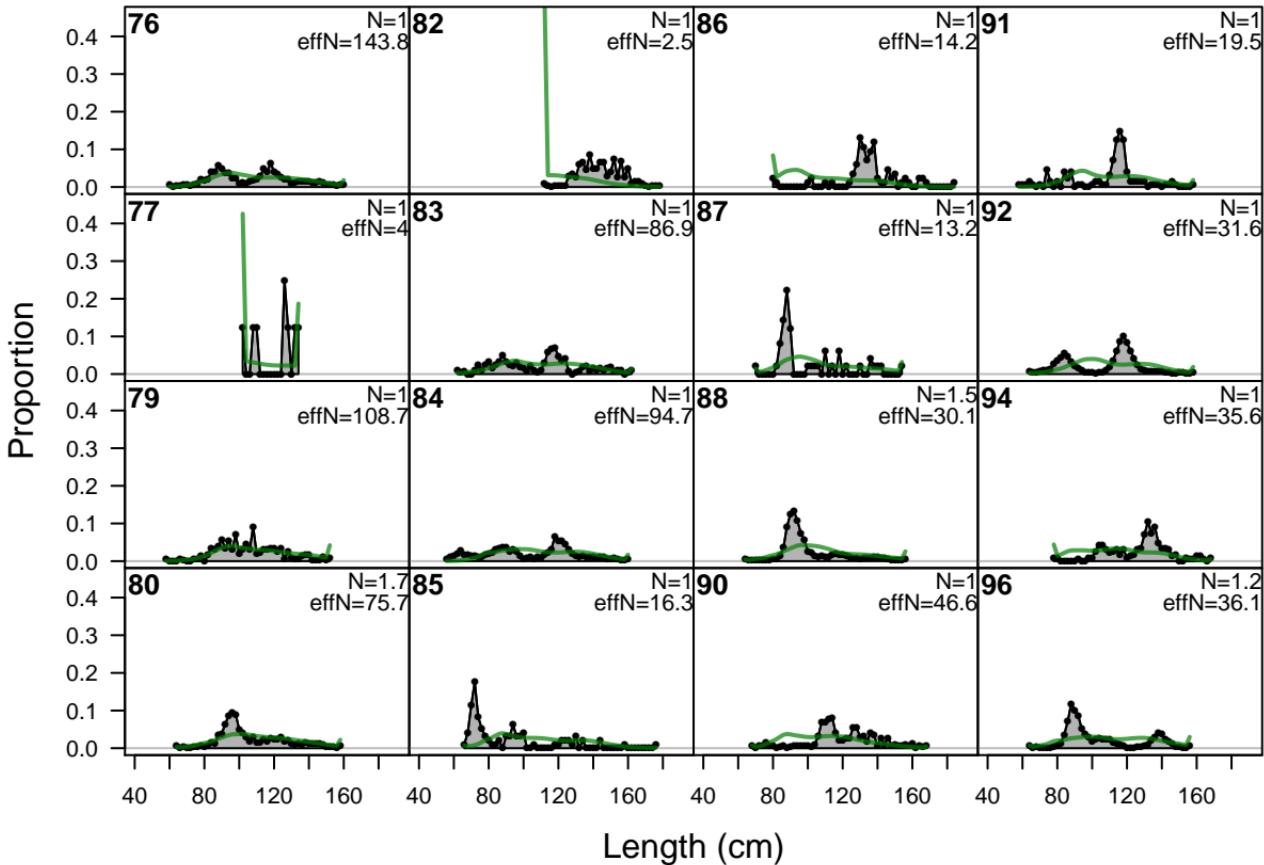
length comps, whole catch, S1-LLt_N_len



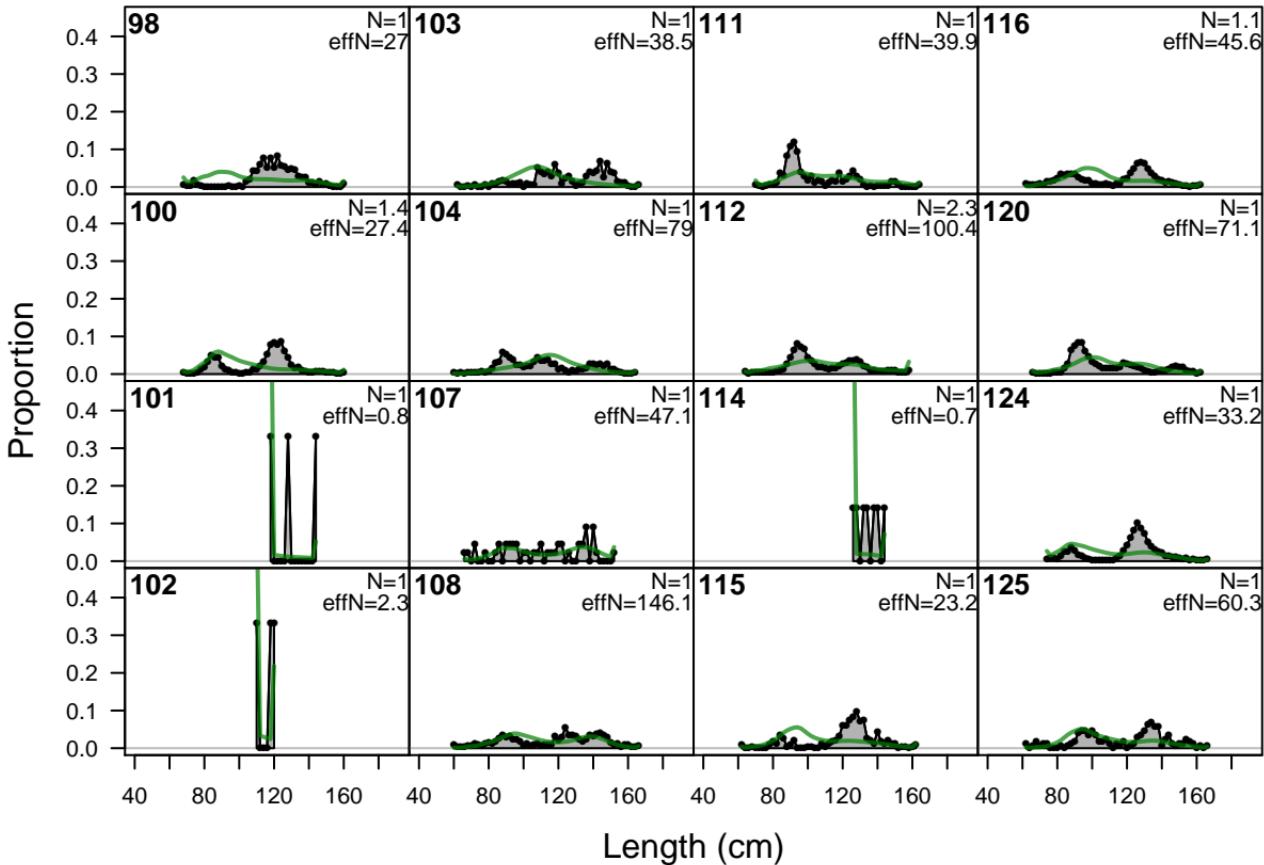
length comps, whole catch, S1-LLt_N_len



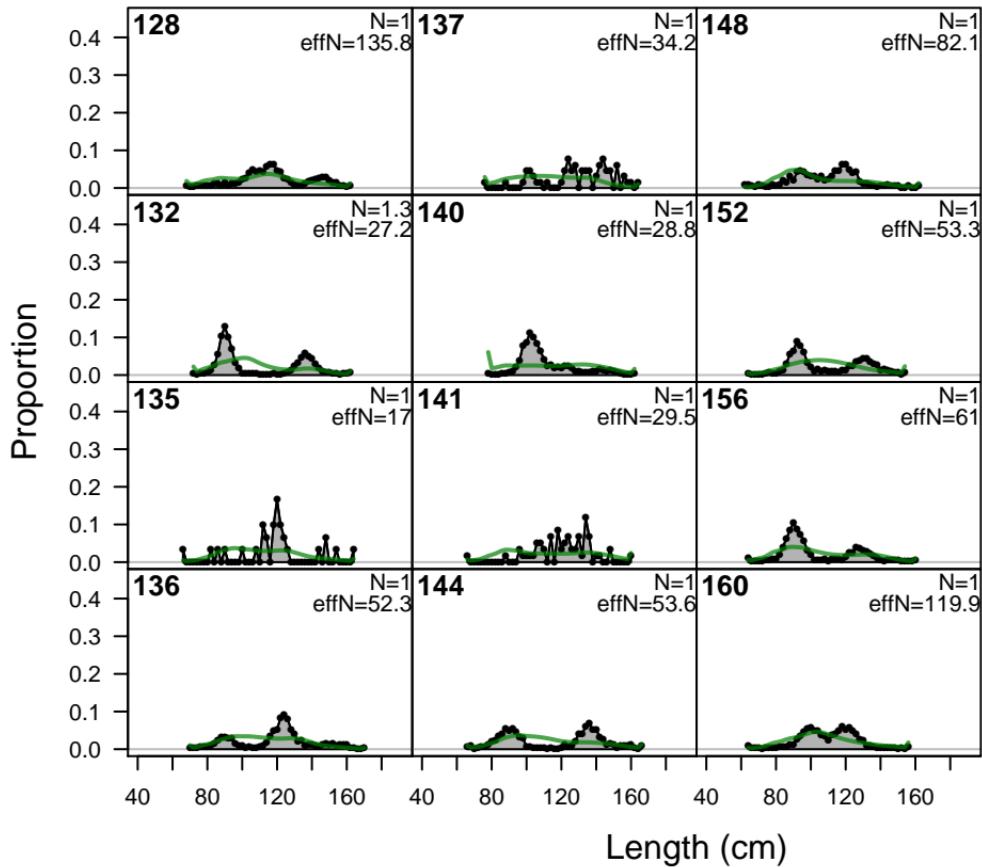
length comps, whole catch, S1-LLt_N_len

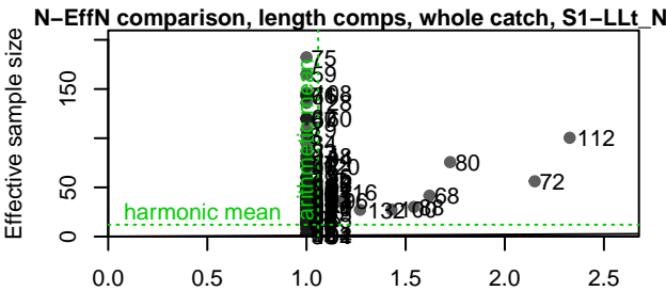
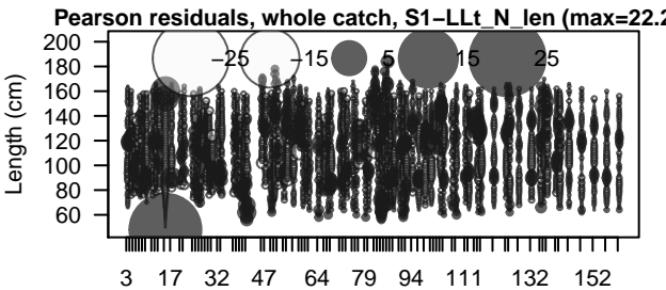


length comps, whole catch, S1-LLt_N_len

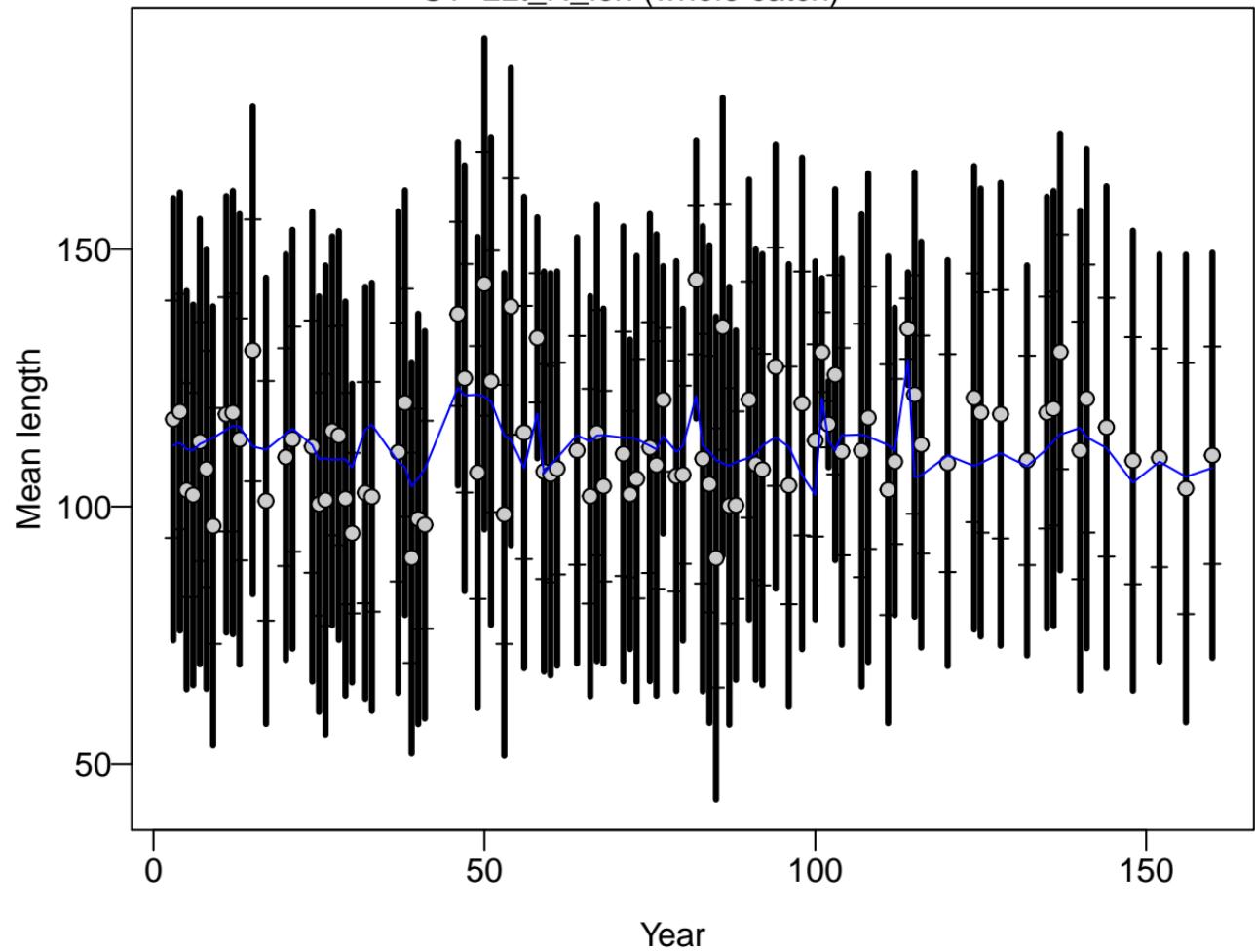


length comps, whole catch, S1-LLt_N_len

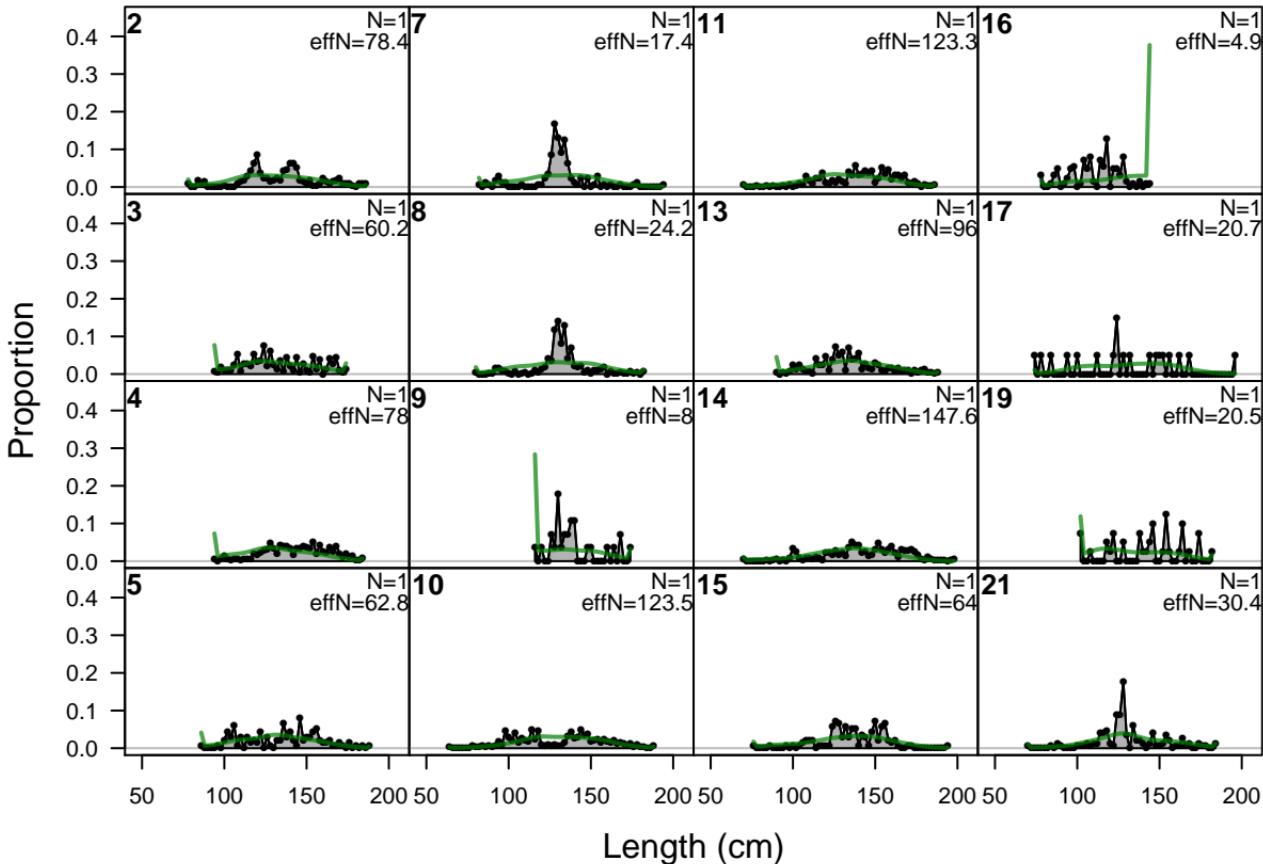




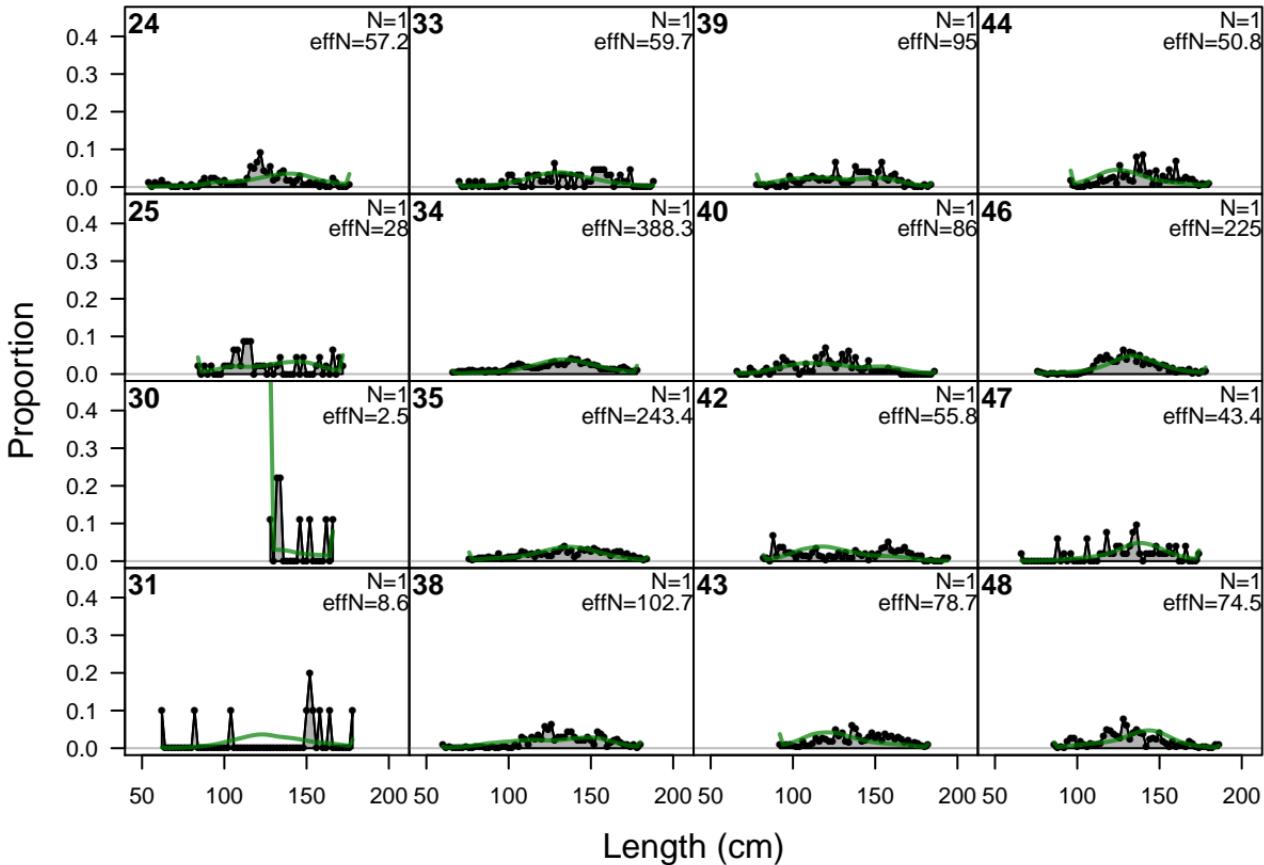
S1–LLt_N_len (whole catch)



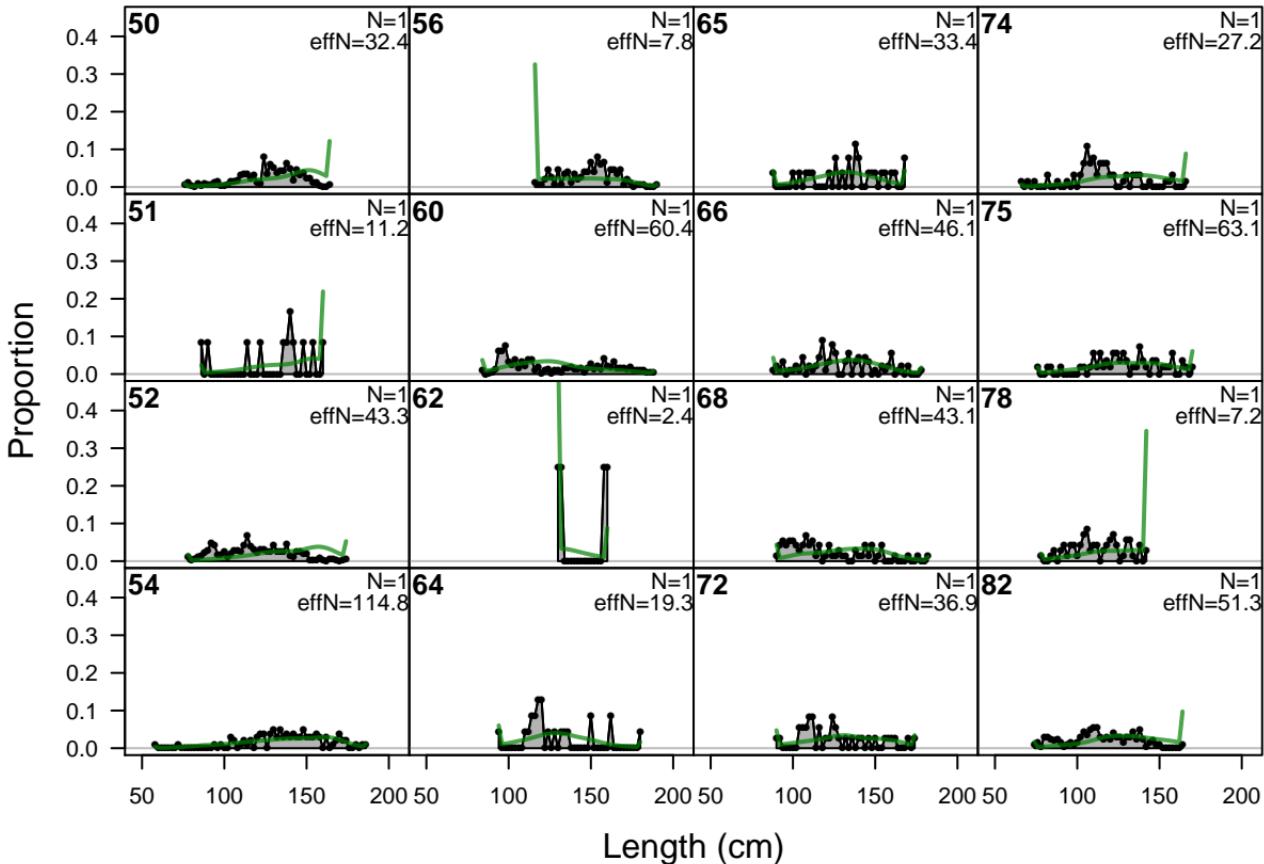
length comps, whole catch, S2-LLt_C_len



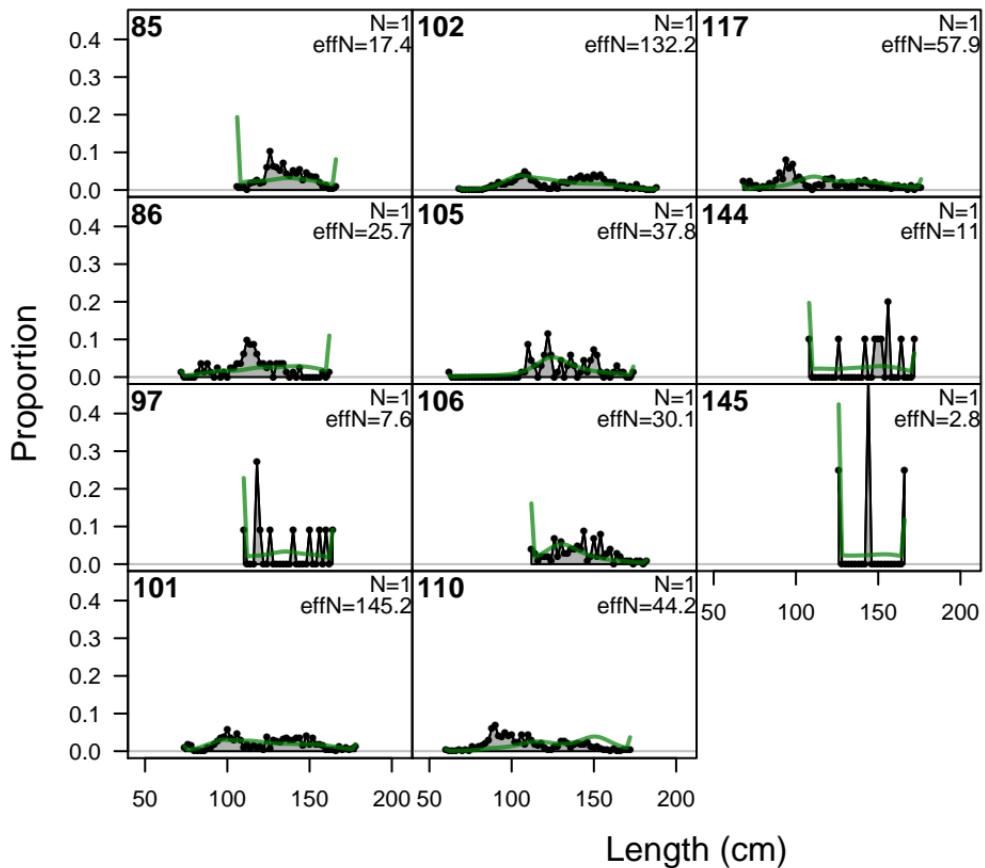
length comps, whole catch, S2-LLt_C_len

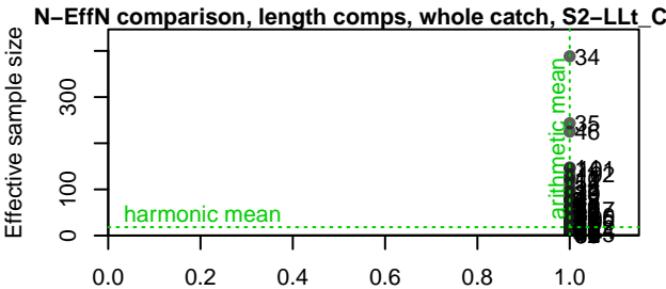
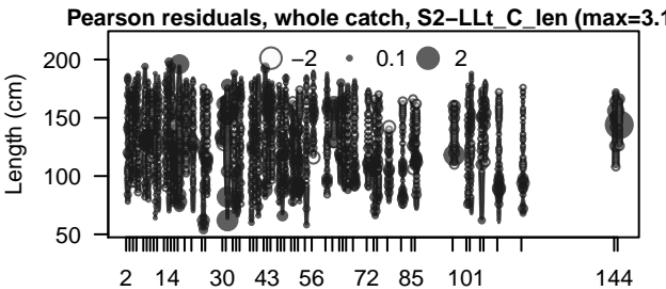


length comps, whole catch, S2-LLt_C_len

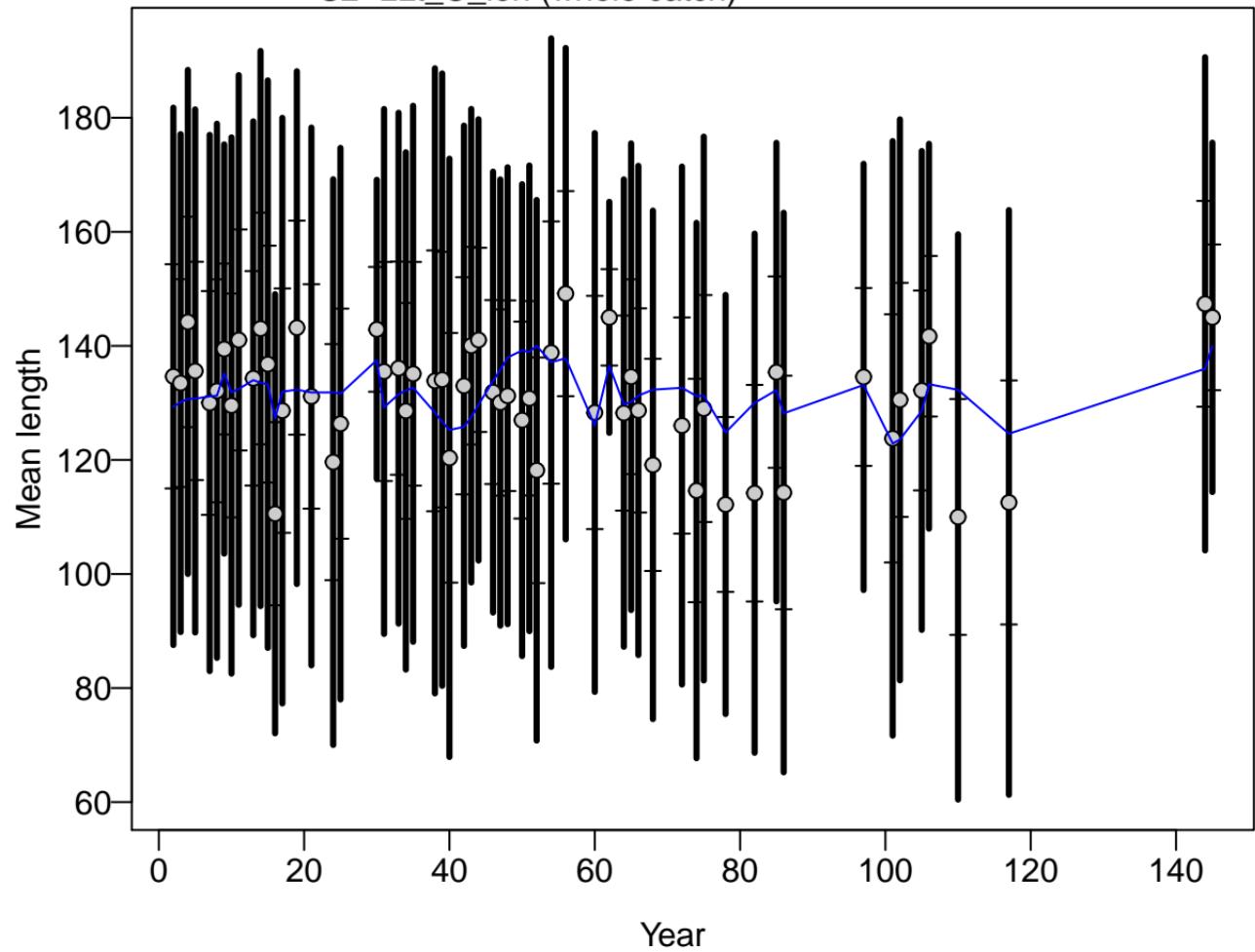


length comps, whole catch, S2-LLt_C_len

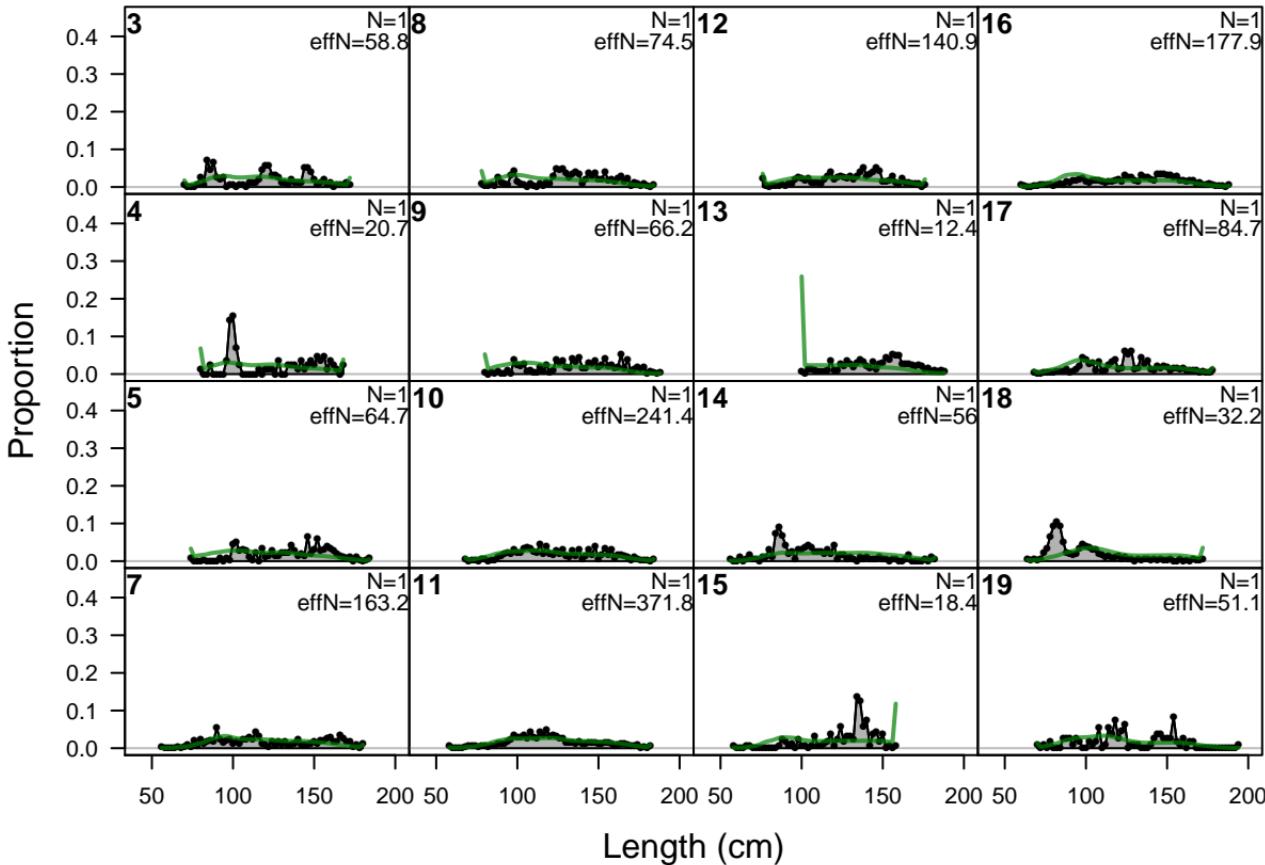




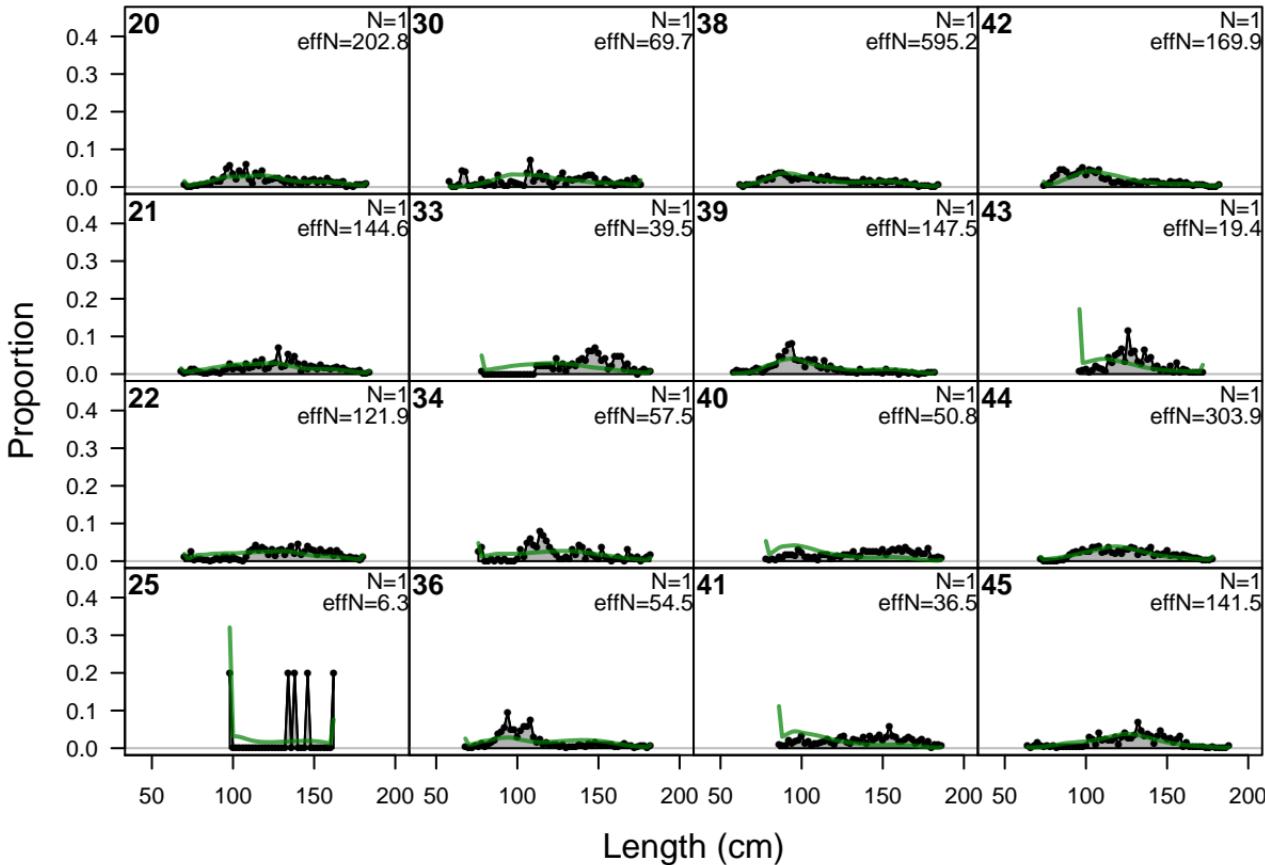
S2-LLt_C_len (whole catch)



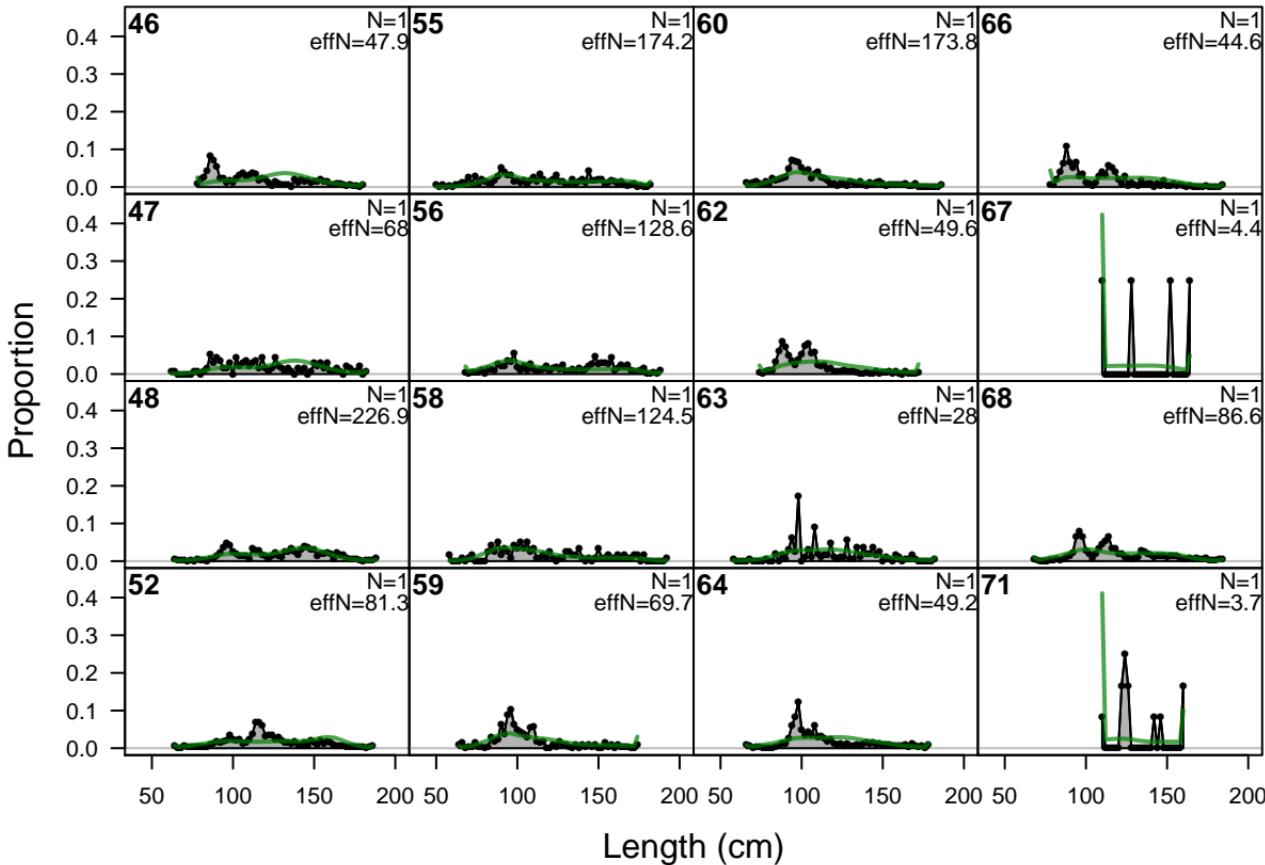
length comps, whole catch, S3-LLt_S_len



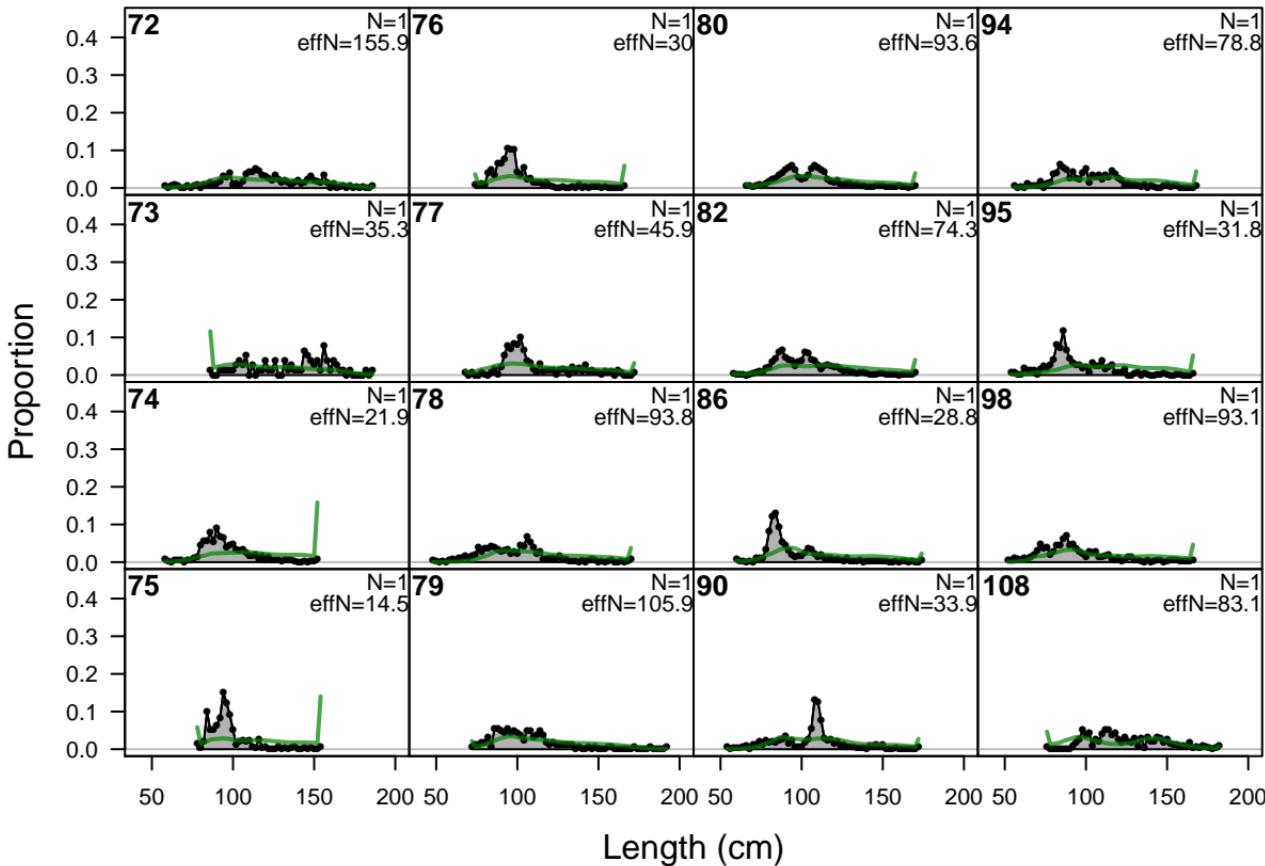
length comps, whole catch, S3-LLt_S_len



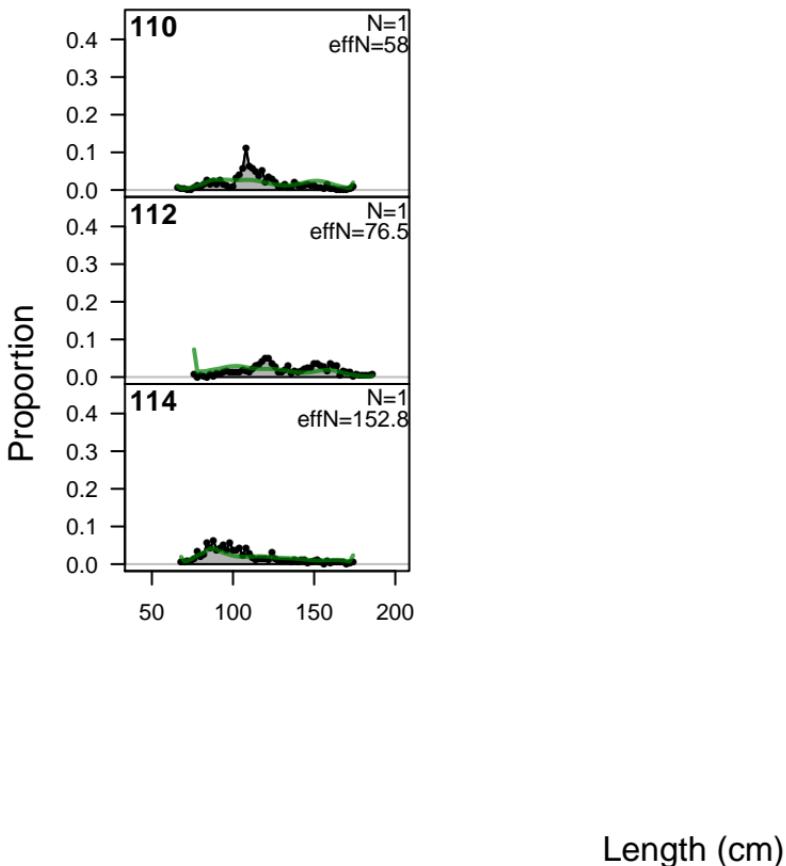
length comps, whole catch, S3-LLt_S_len

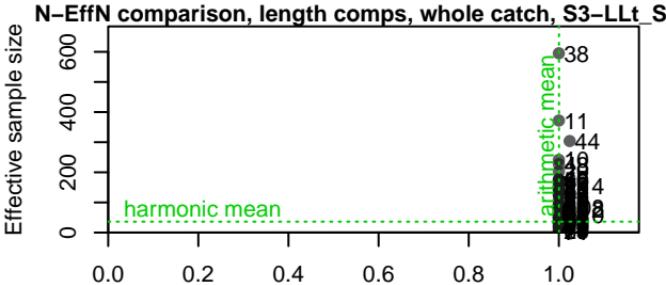
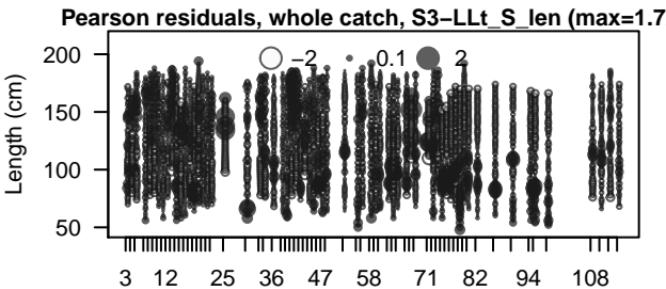


length comps, whole catch, S3-LLt_S_len

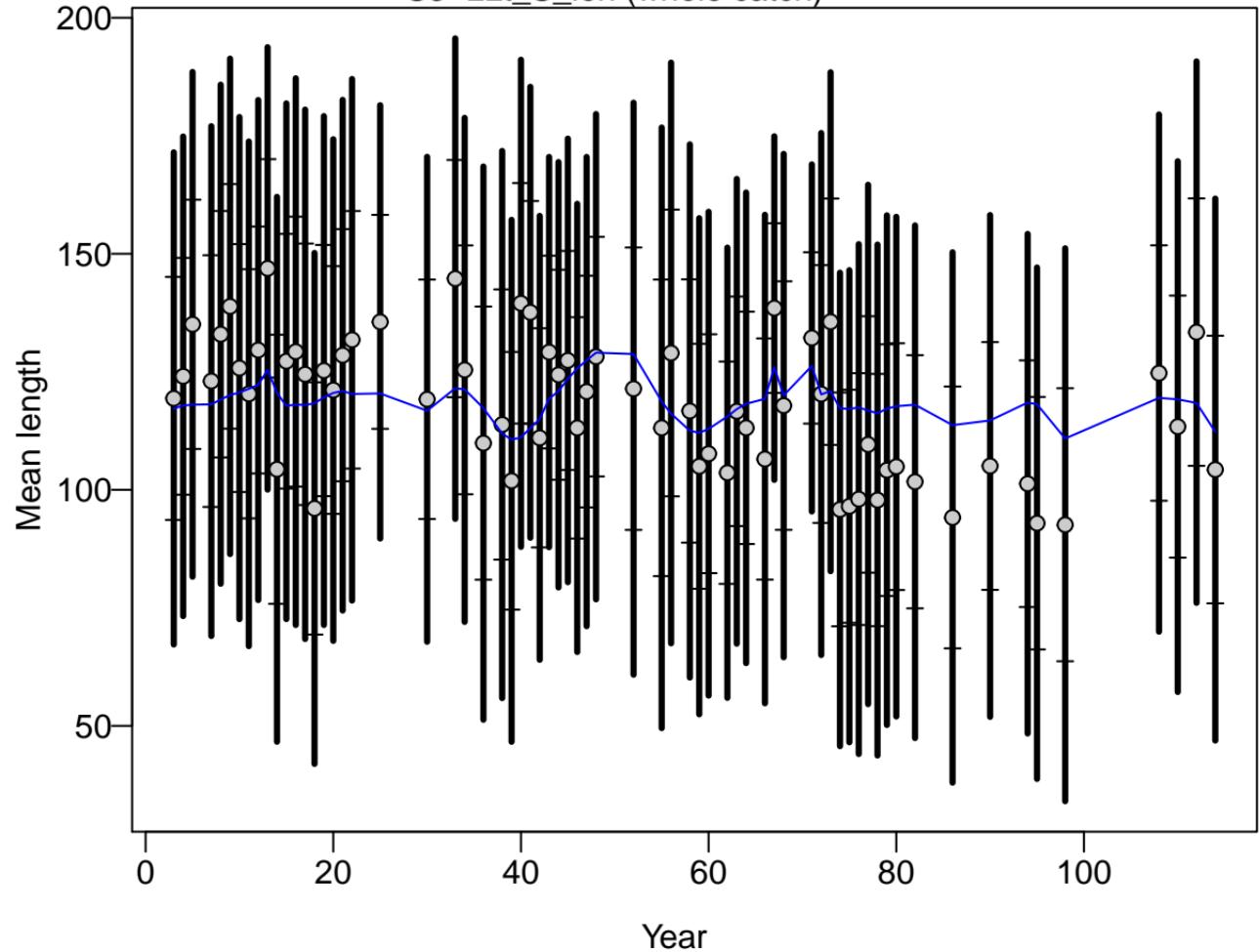


length comps, whole catch, S3-LLt_S_len



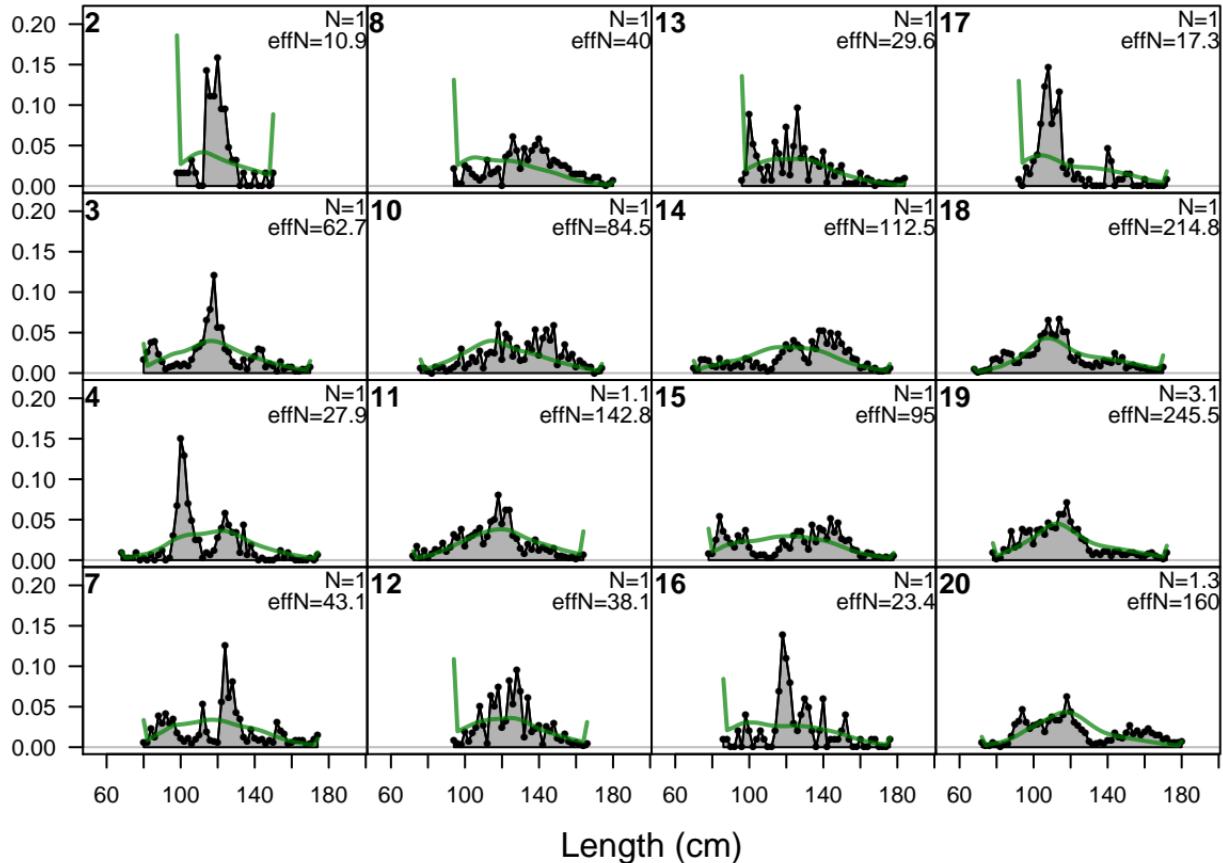


S3-LLt_S_len (whole catch)



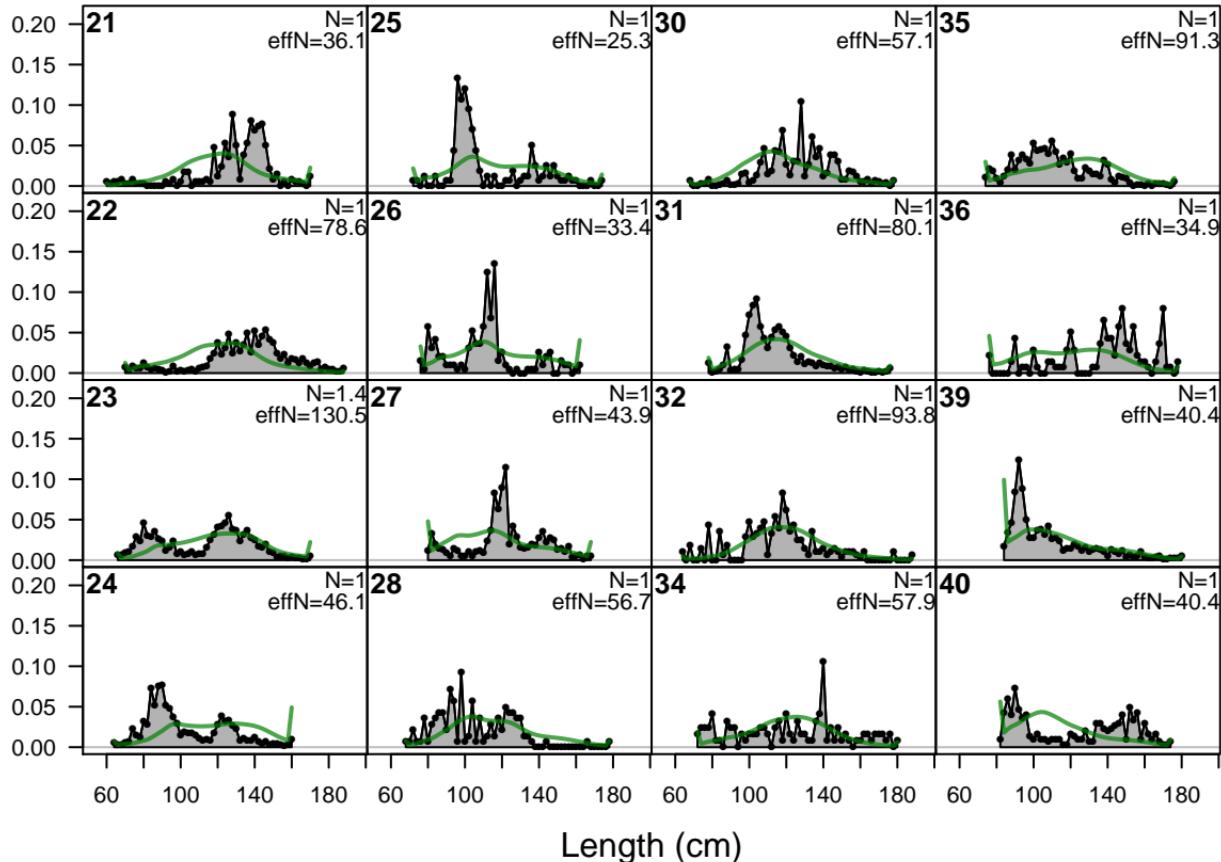
length comps, whole catch, S4–LLt_I_len

Proportion

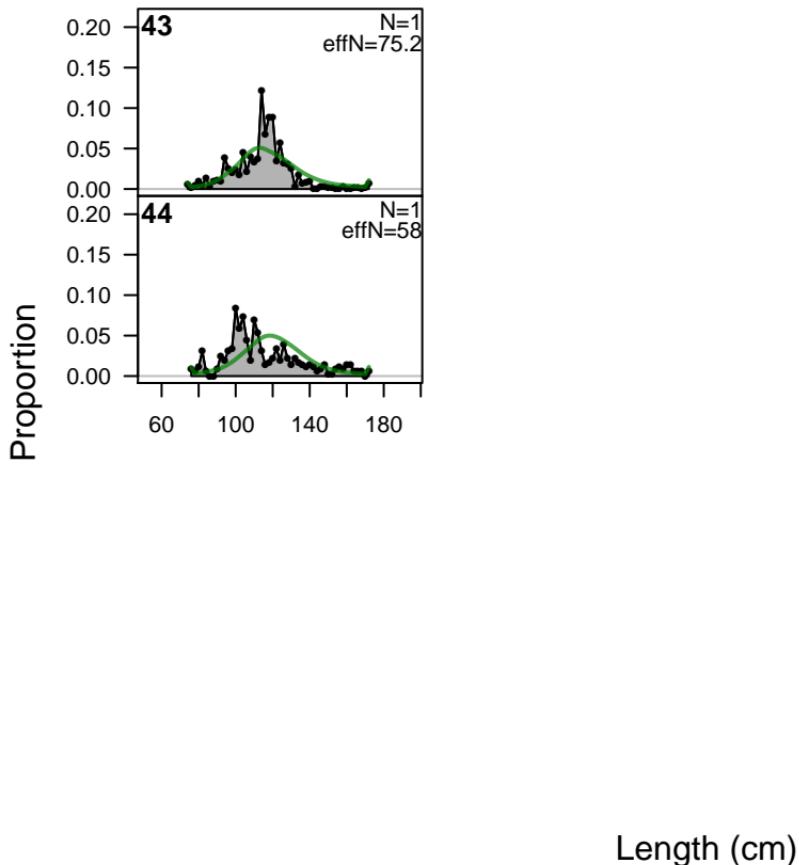


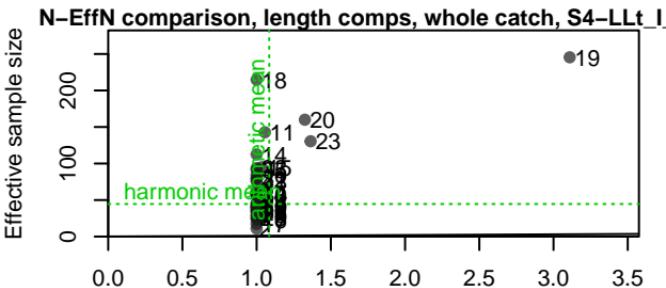
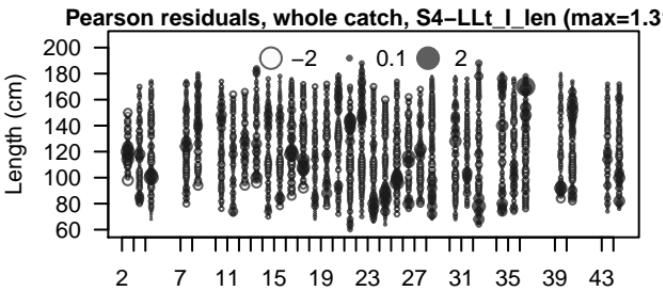
length comps, whole catch, S4–LLt_I_len

Proportion

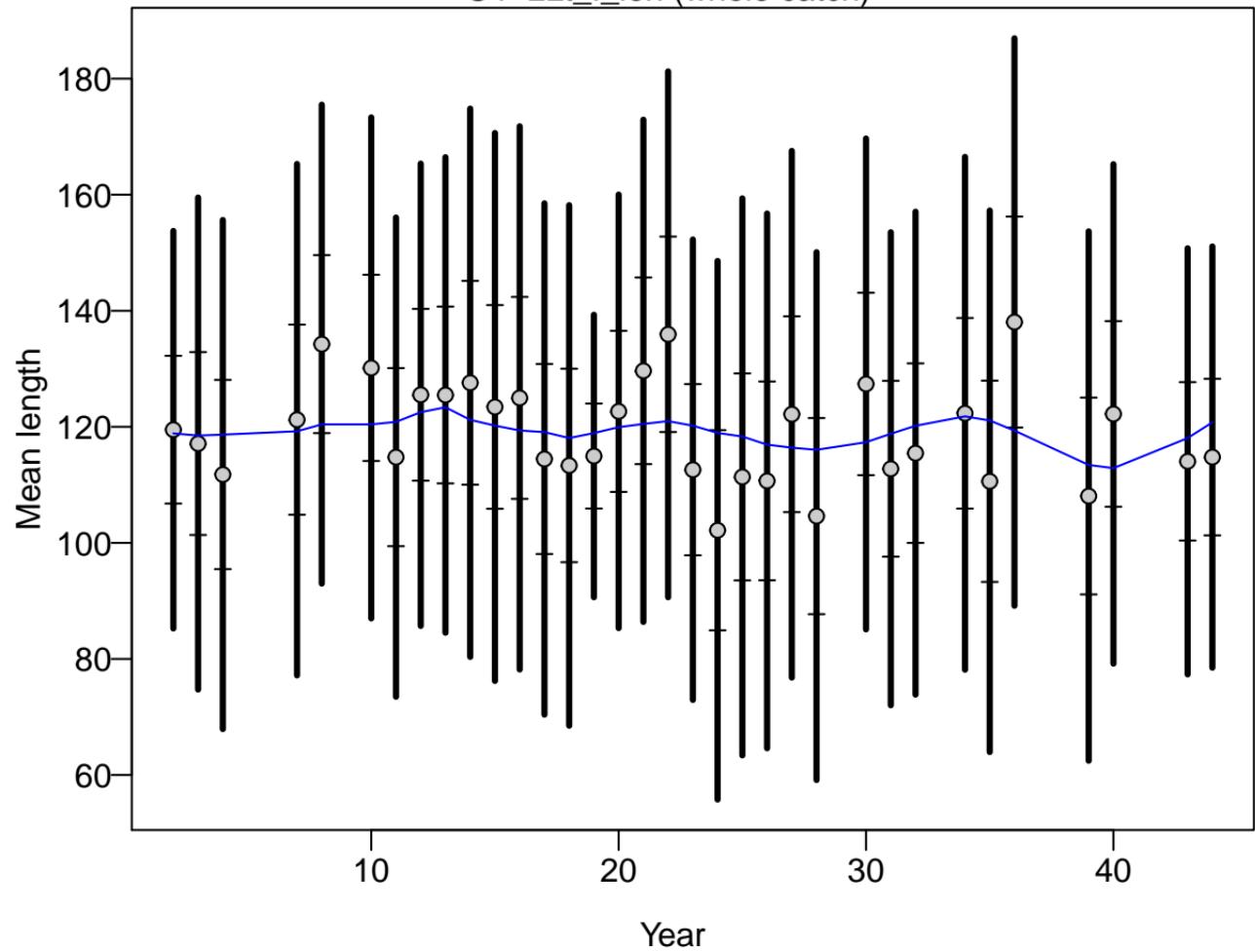


length comps, whole catch, S4-LLt_I_len



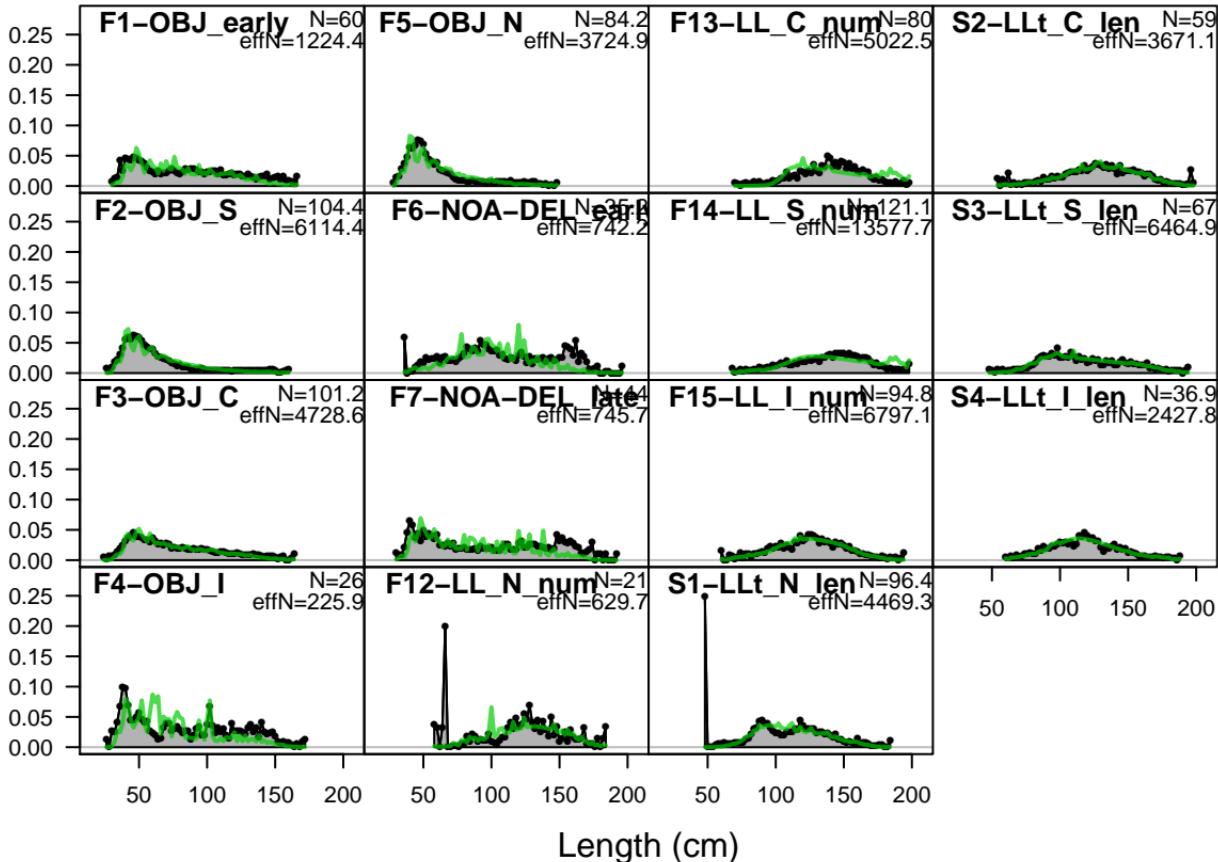


S4-LLt_I_len (whole catch)

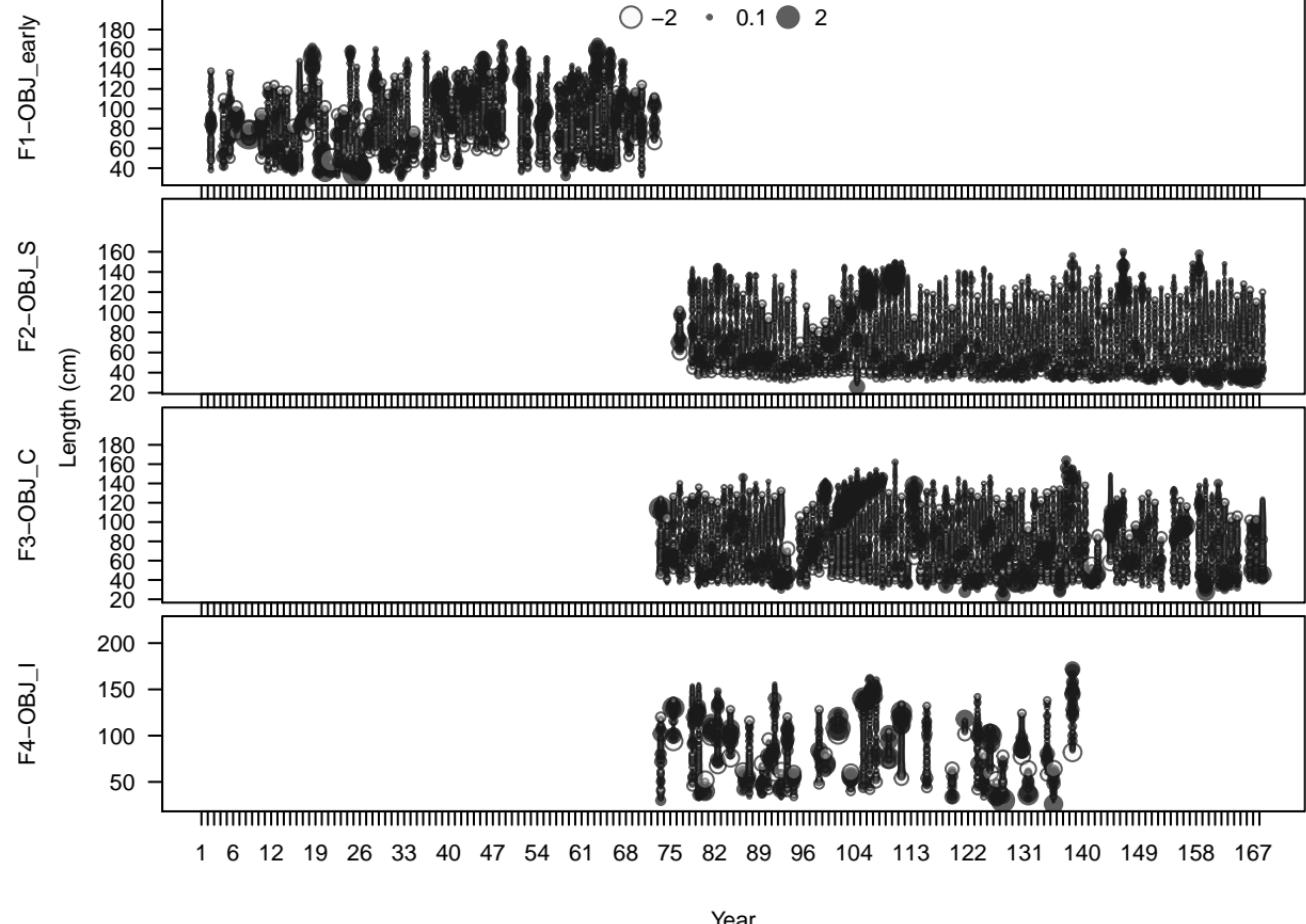


length comps, whole catch, aggregated across time by fleet

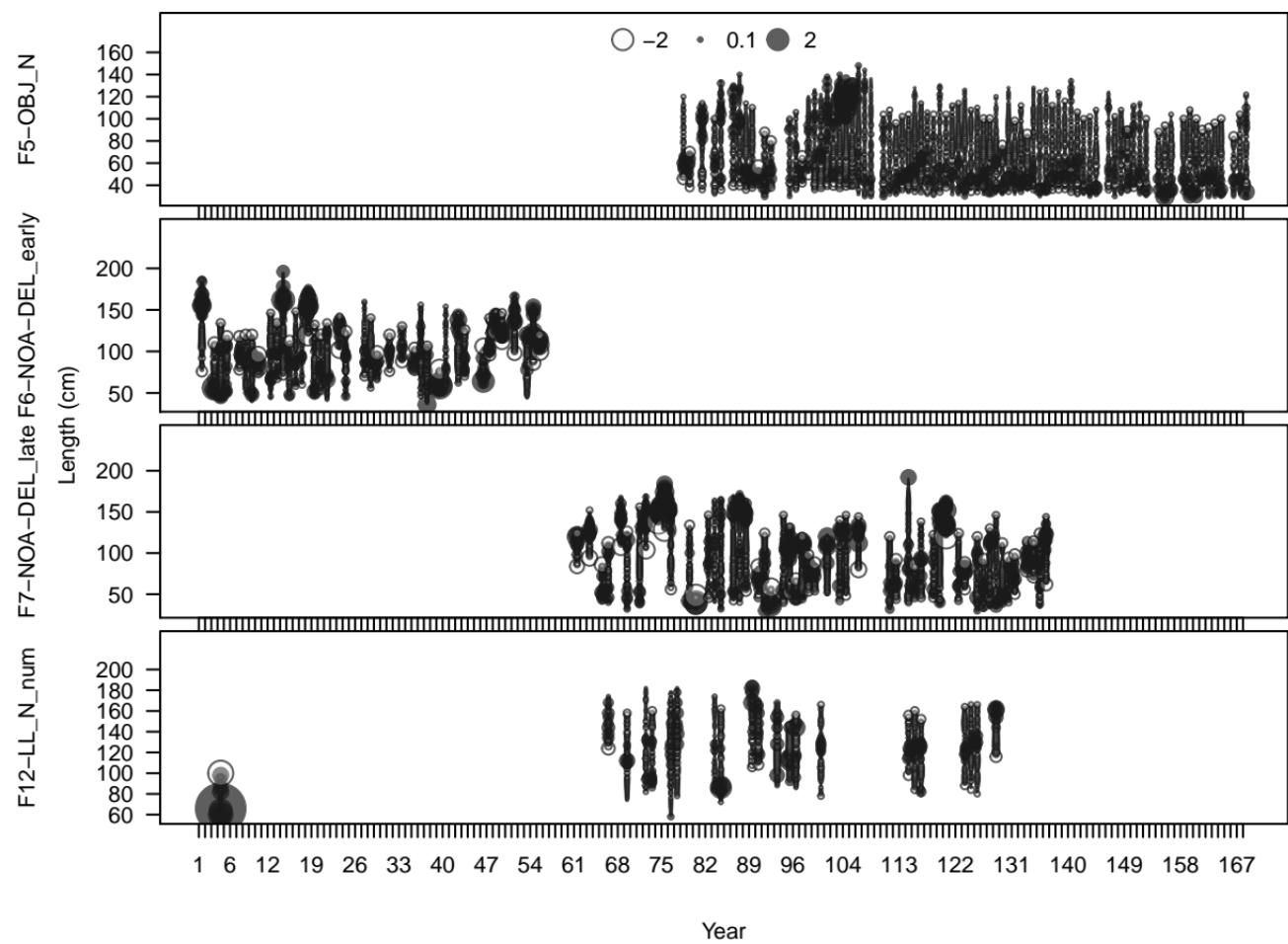
Proportion



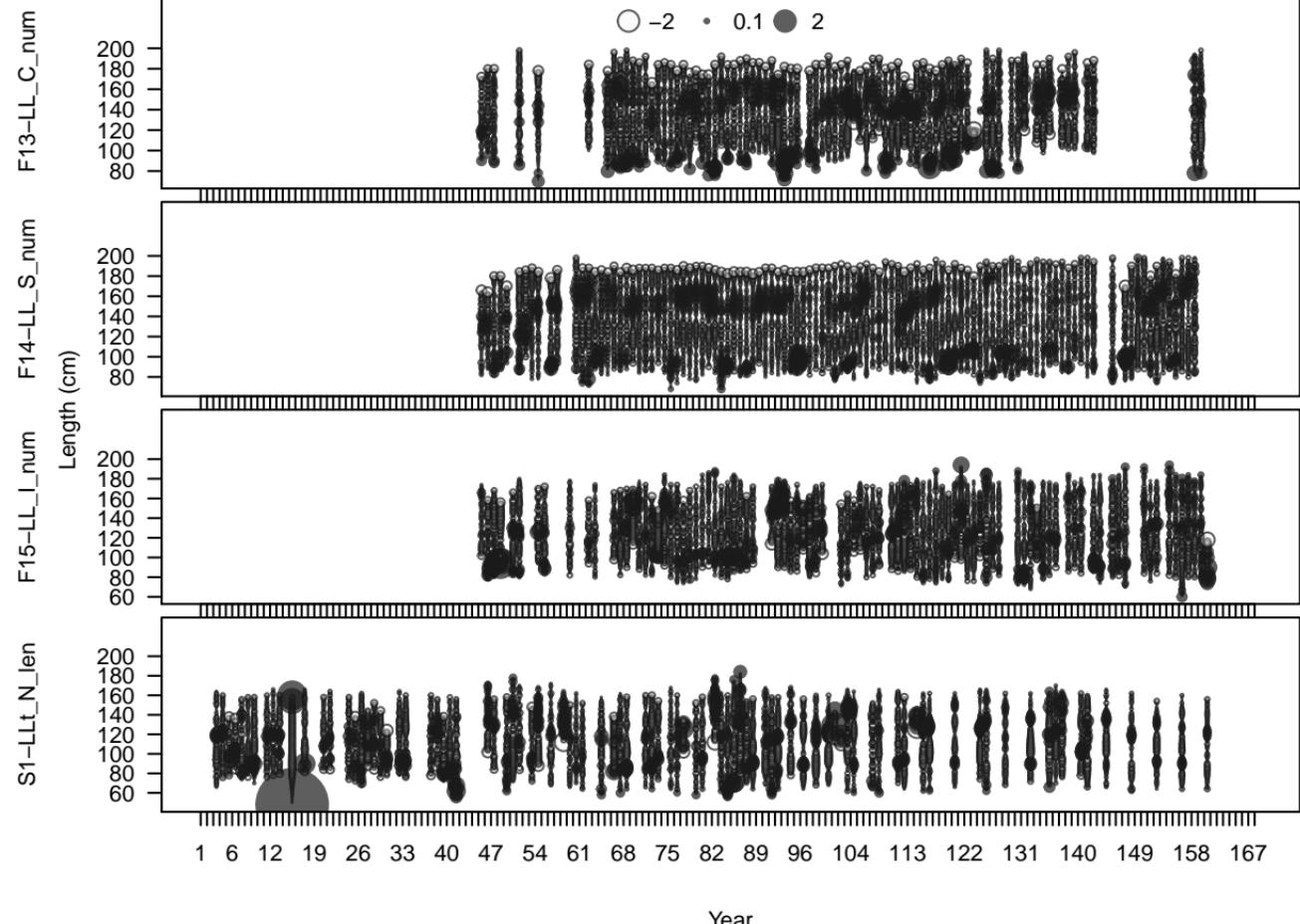
Pearson residuals, sexes combined, whole catch, comparing across fleets



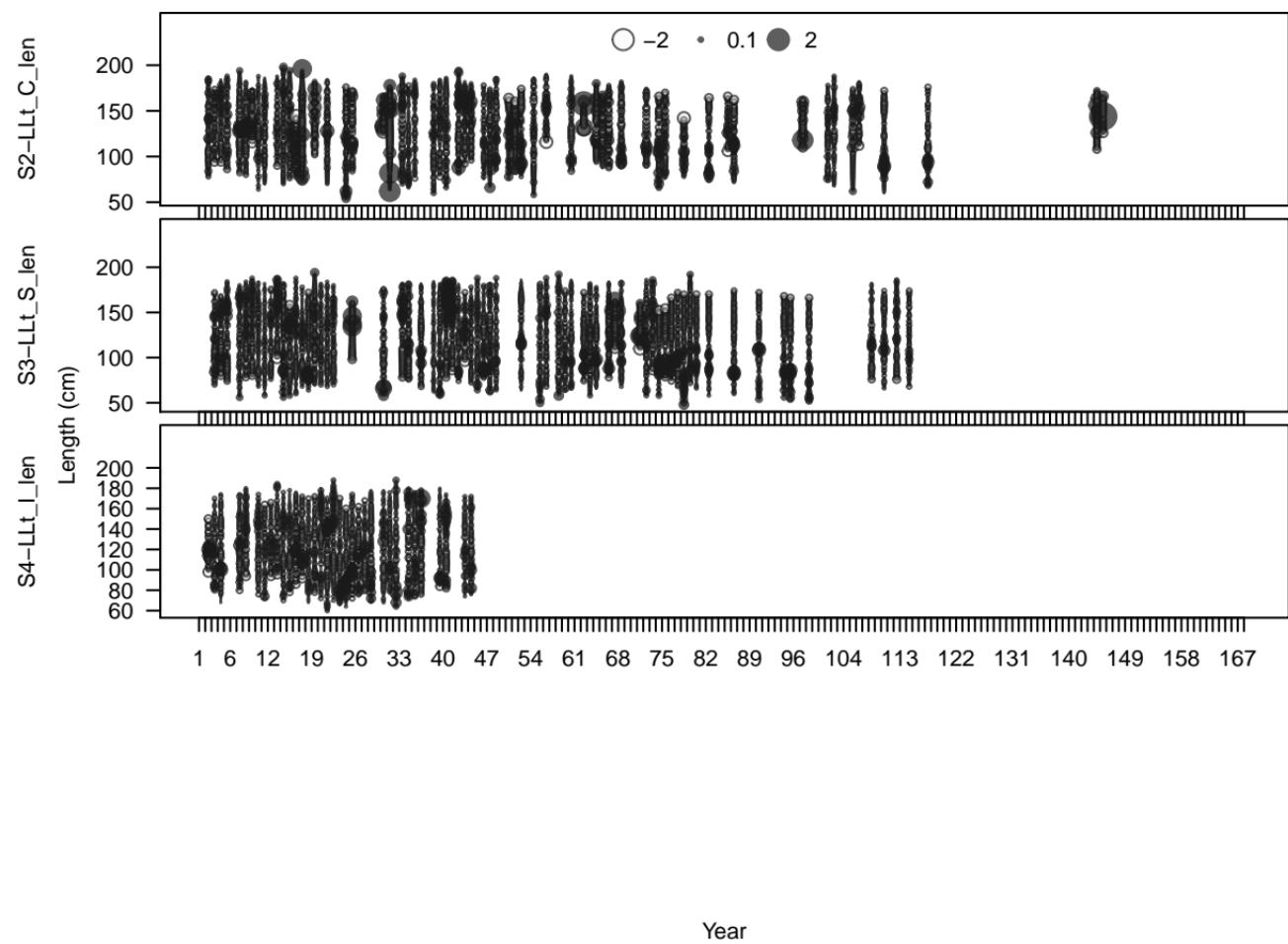
Pearson residuals, sexes combined, whole catch, comparing across fleets



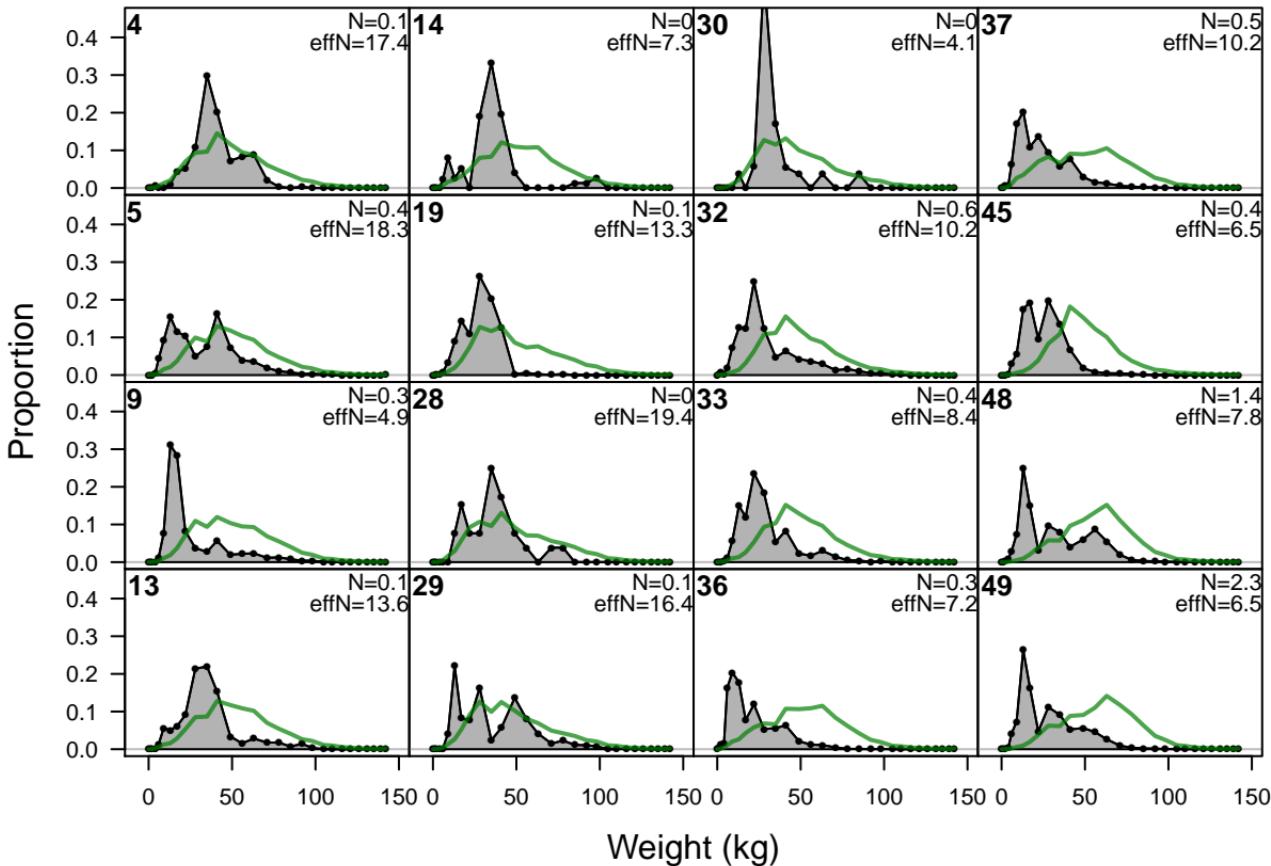
Pearson residuals, sexes combined, whole catch, comparing across fleets



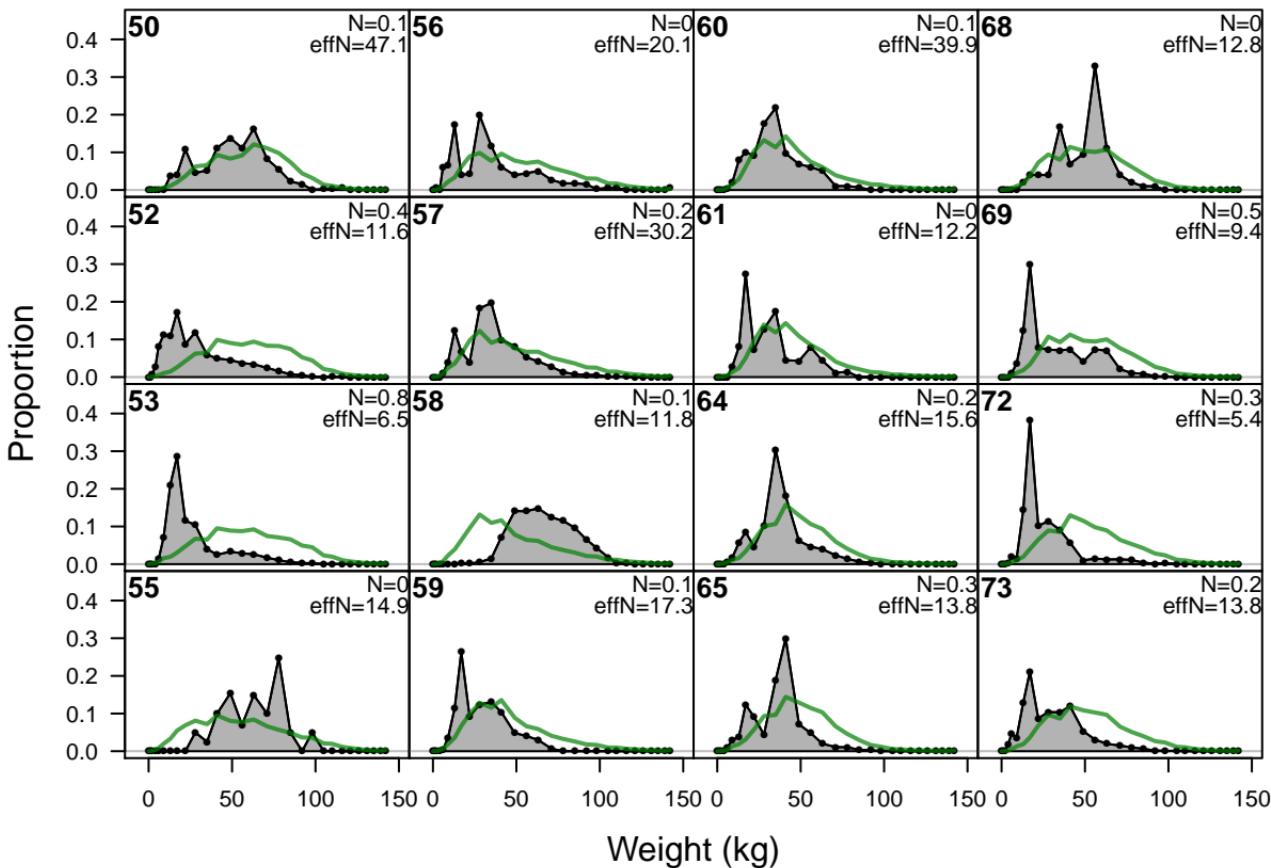
Pearson residuals, sexes combined, whole catch, comparing across fleets



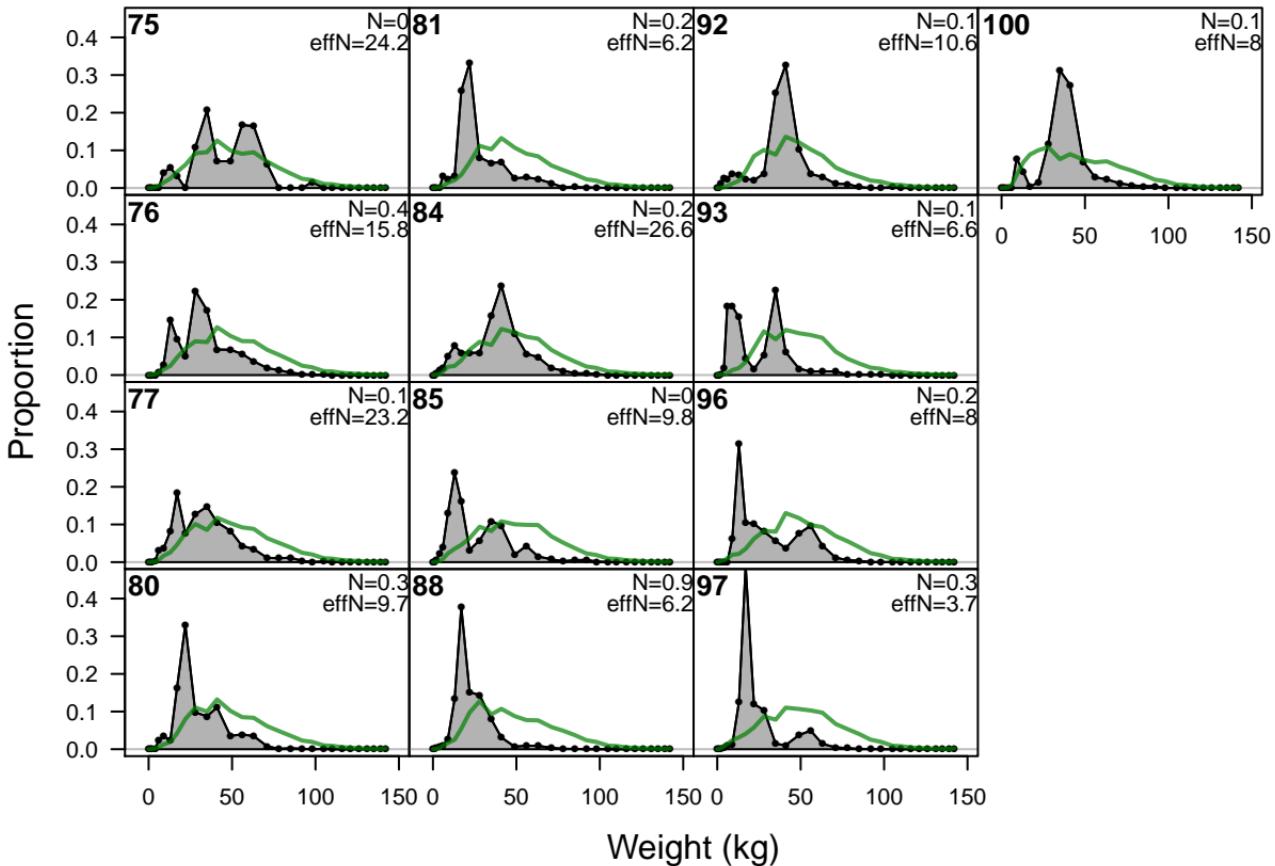
size comps, whole catch, S5-LLc_N_w



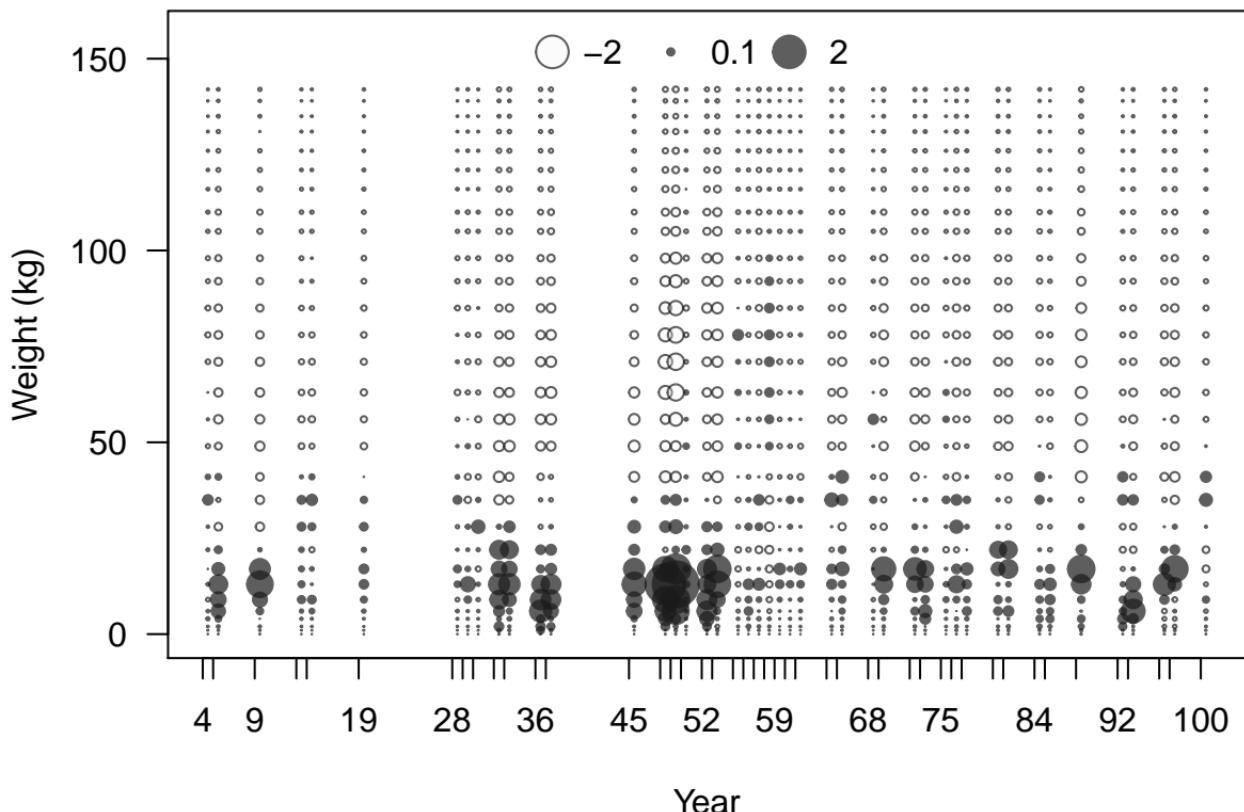
size comps, whole catch, S5-LLc_N_w



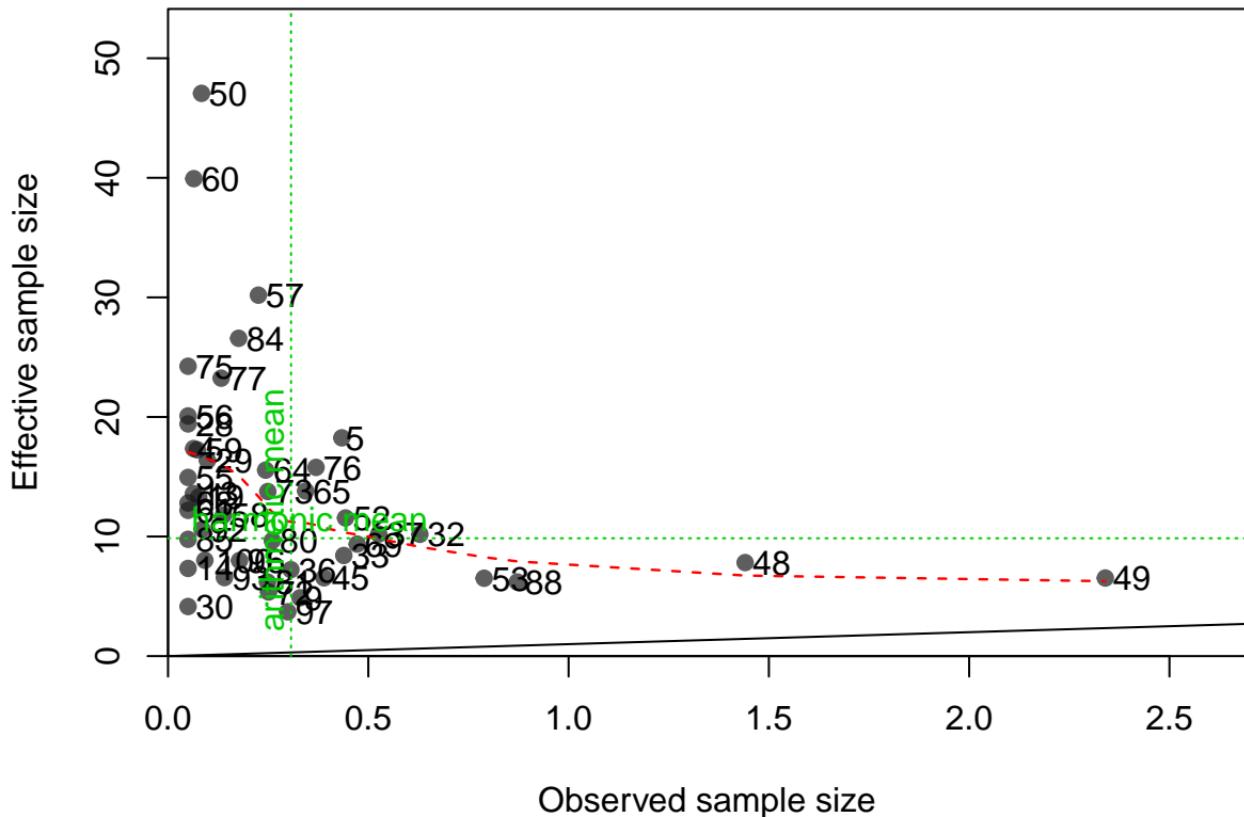
size comps, whole catch, S5-LLc_N_w



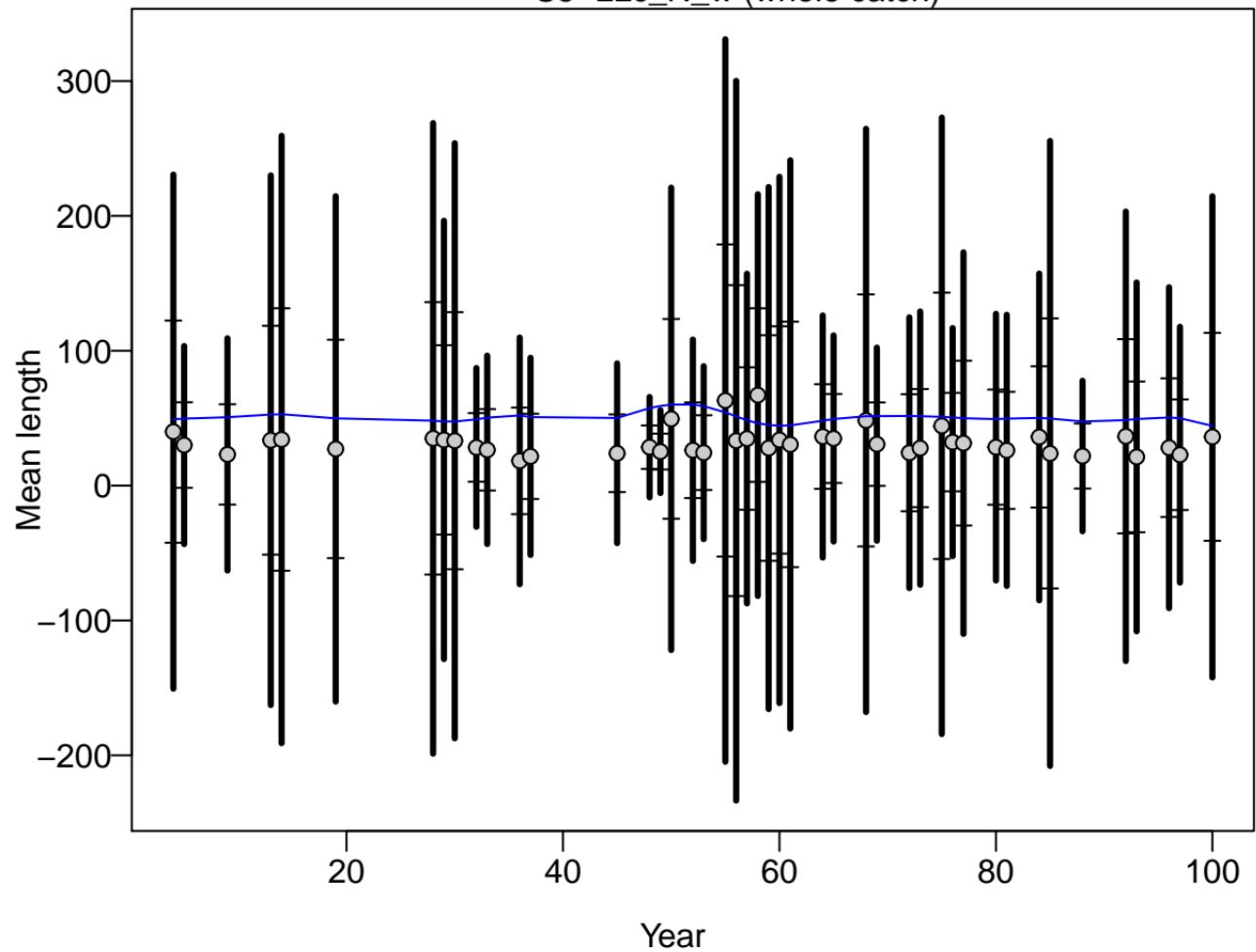
Pearson residuals, whole catch, S5–LLc_N_w (max=3.96)



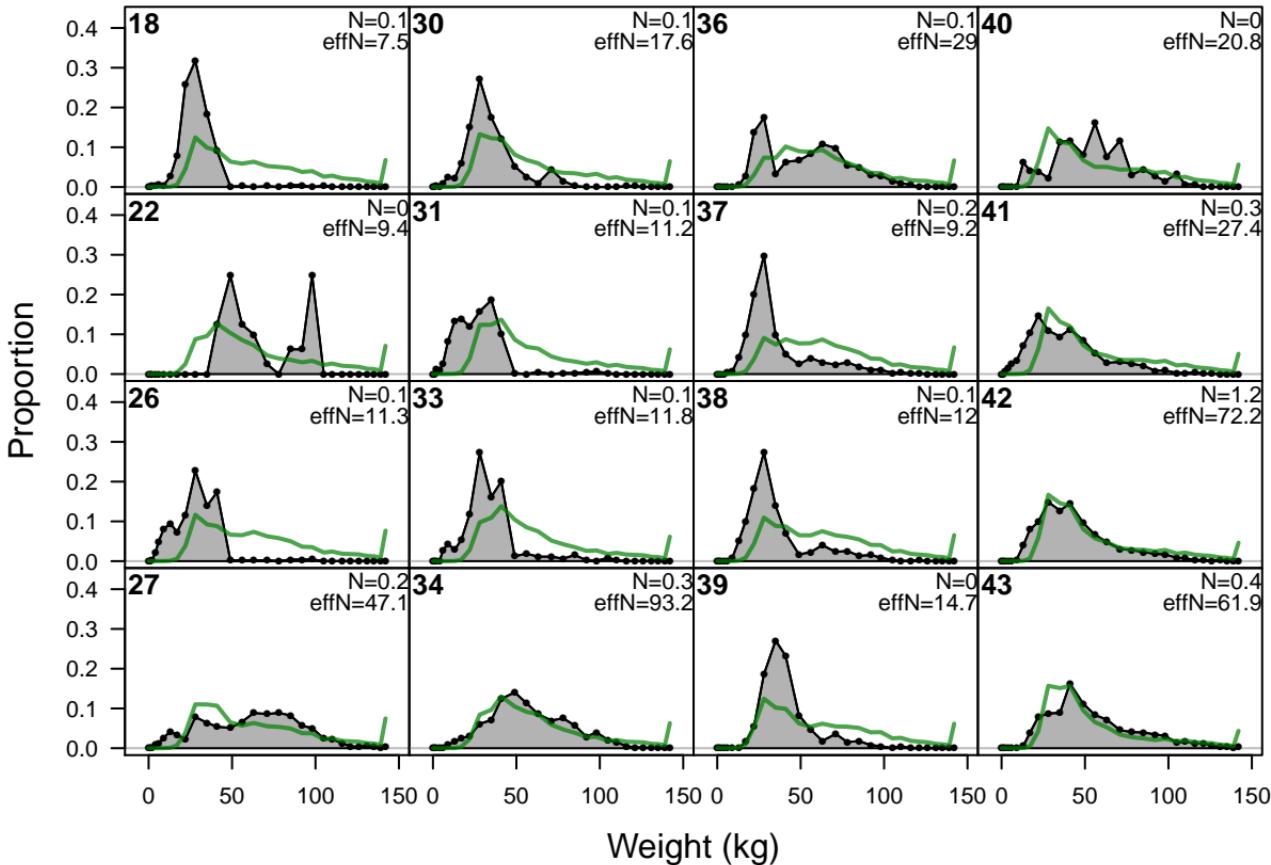
N-EffN comparison, size comps, whole catch, S5-LLc_N_w



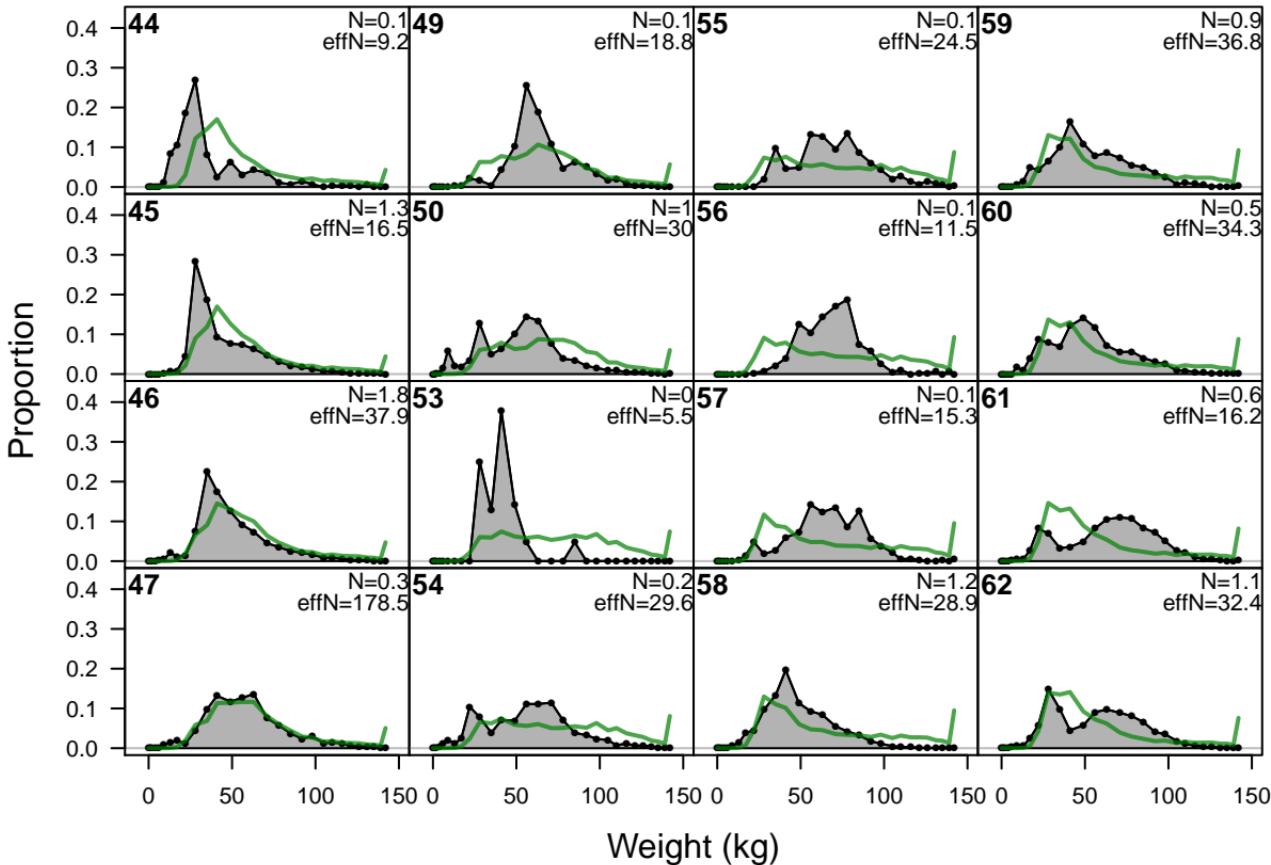
S5-LLc_N_w (whole catch)



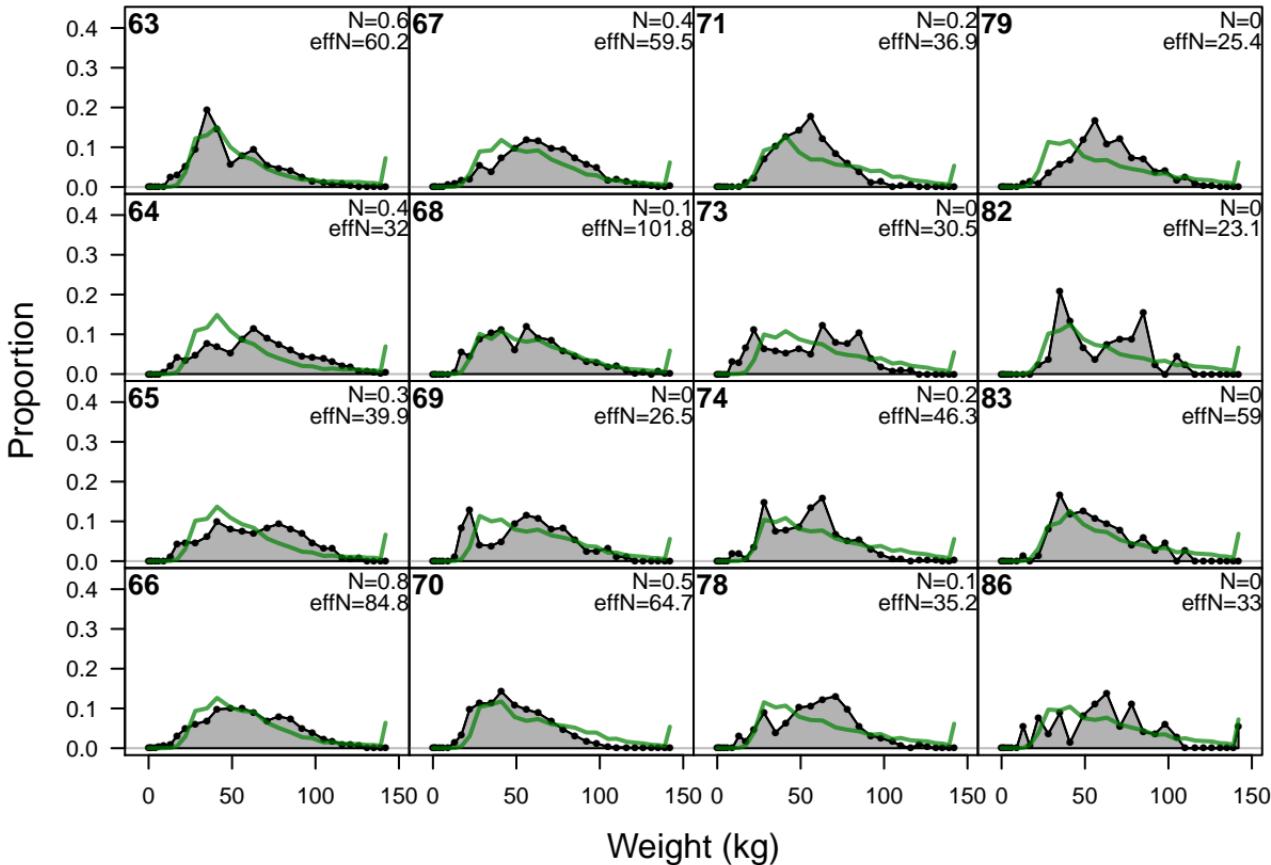
size comps, whole catch, S6-LLc_C_w



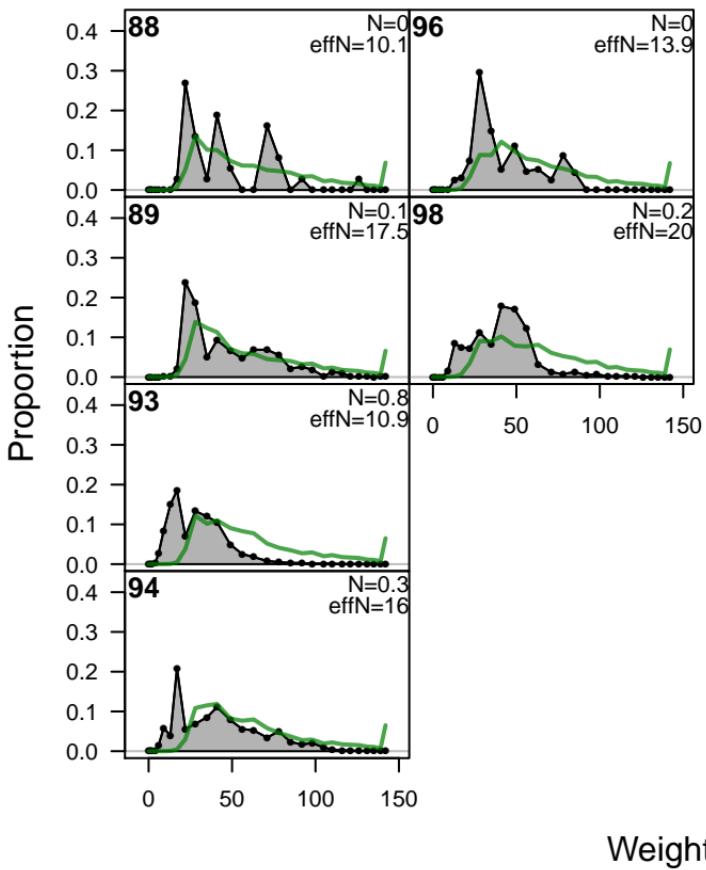
size comps, whole catch, S6-LLc_C_w



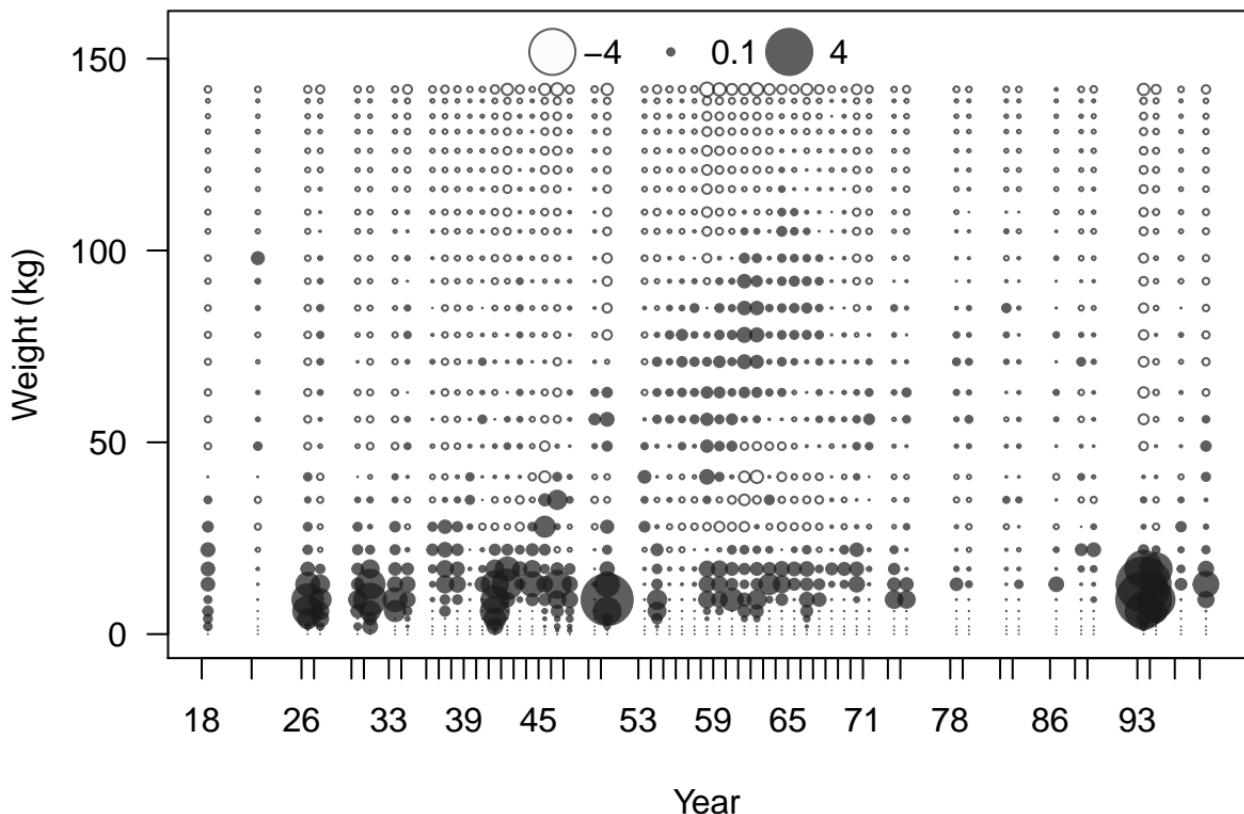
size comps, whole catch, S6-LLc_C_w



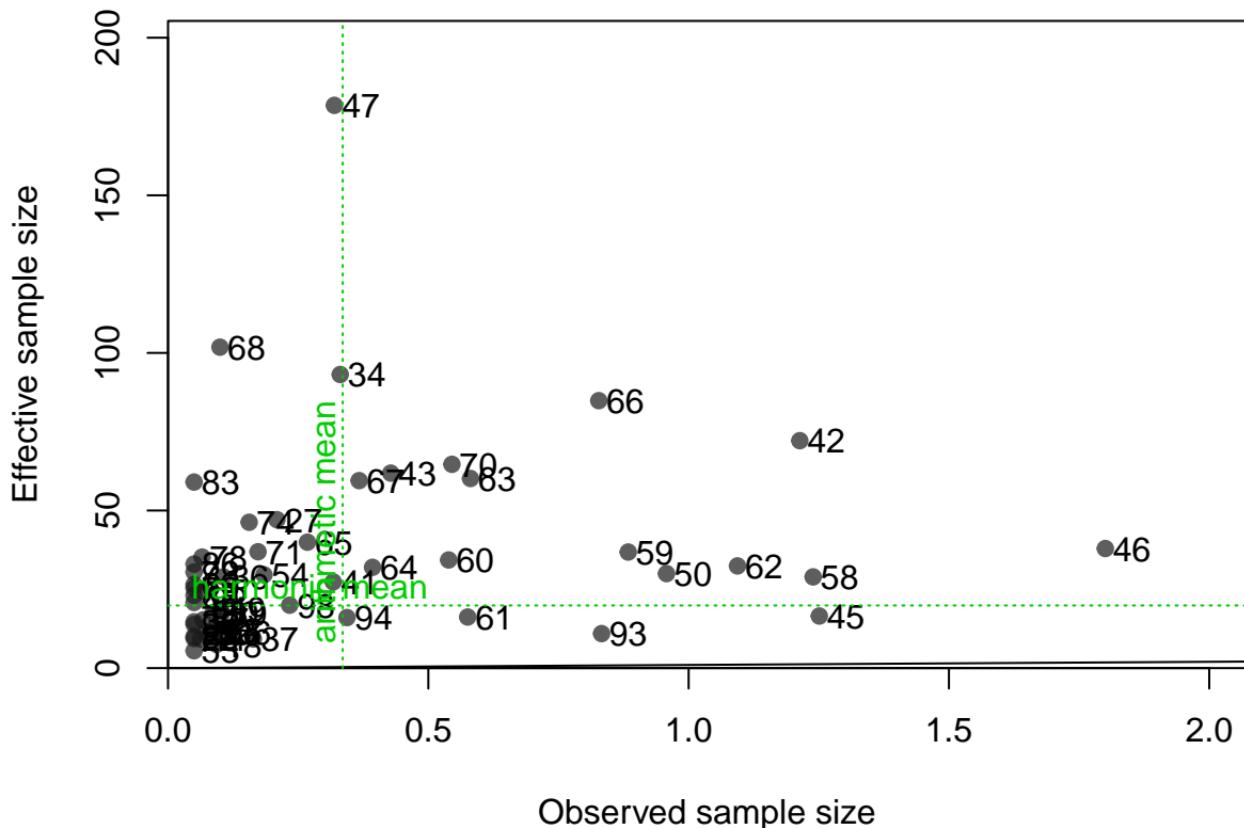
size comps, whole catch, S6-LLc_C_w



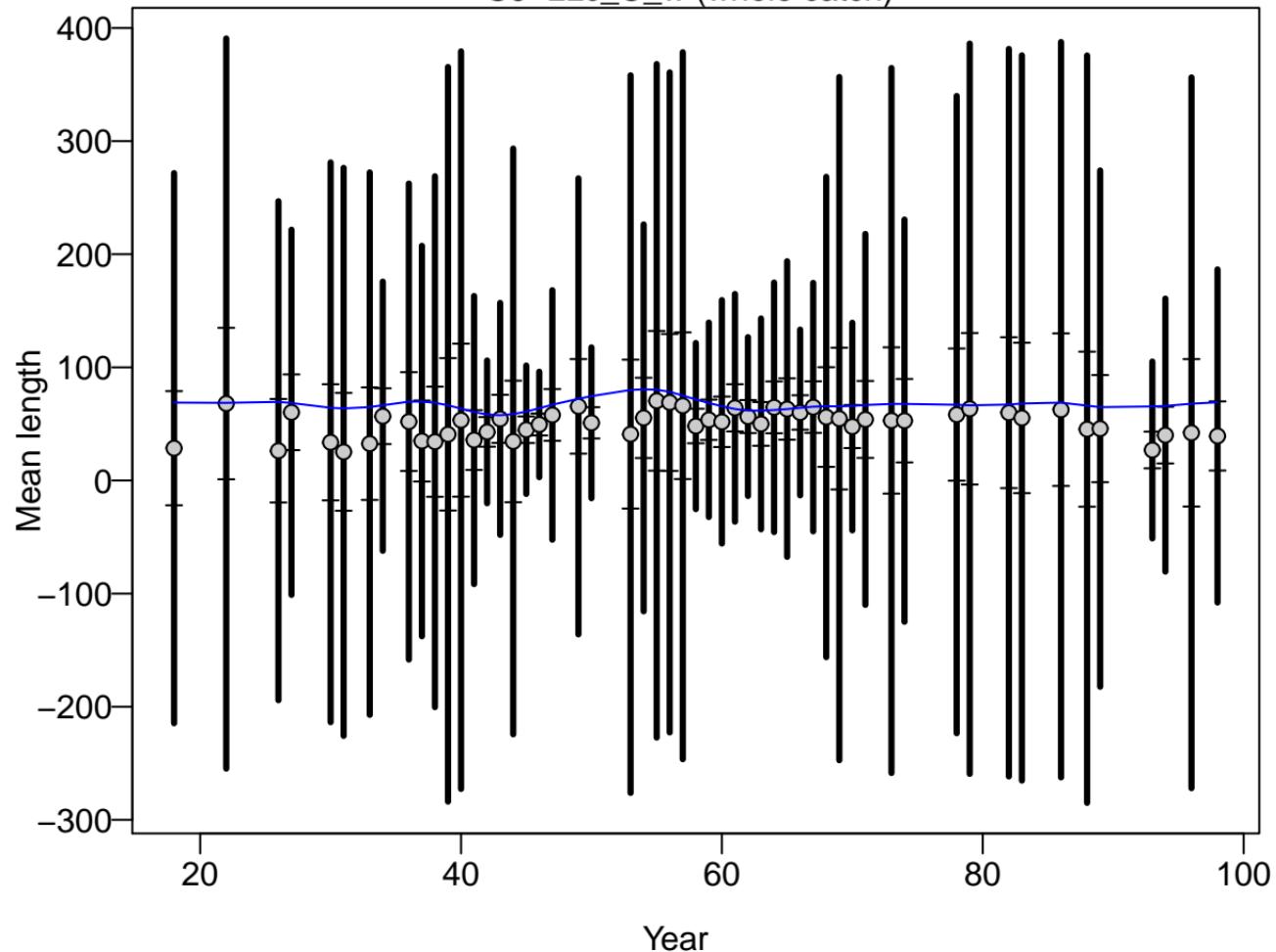
Pearson residuals, whole catch, S6-LLc_C_w (max=5.62)



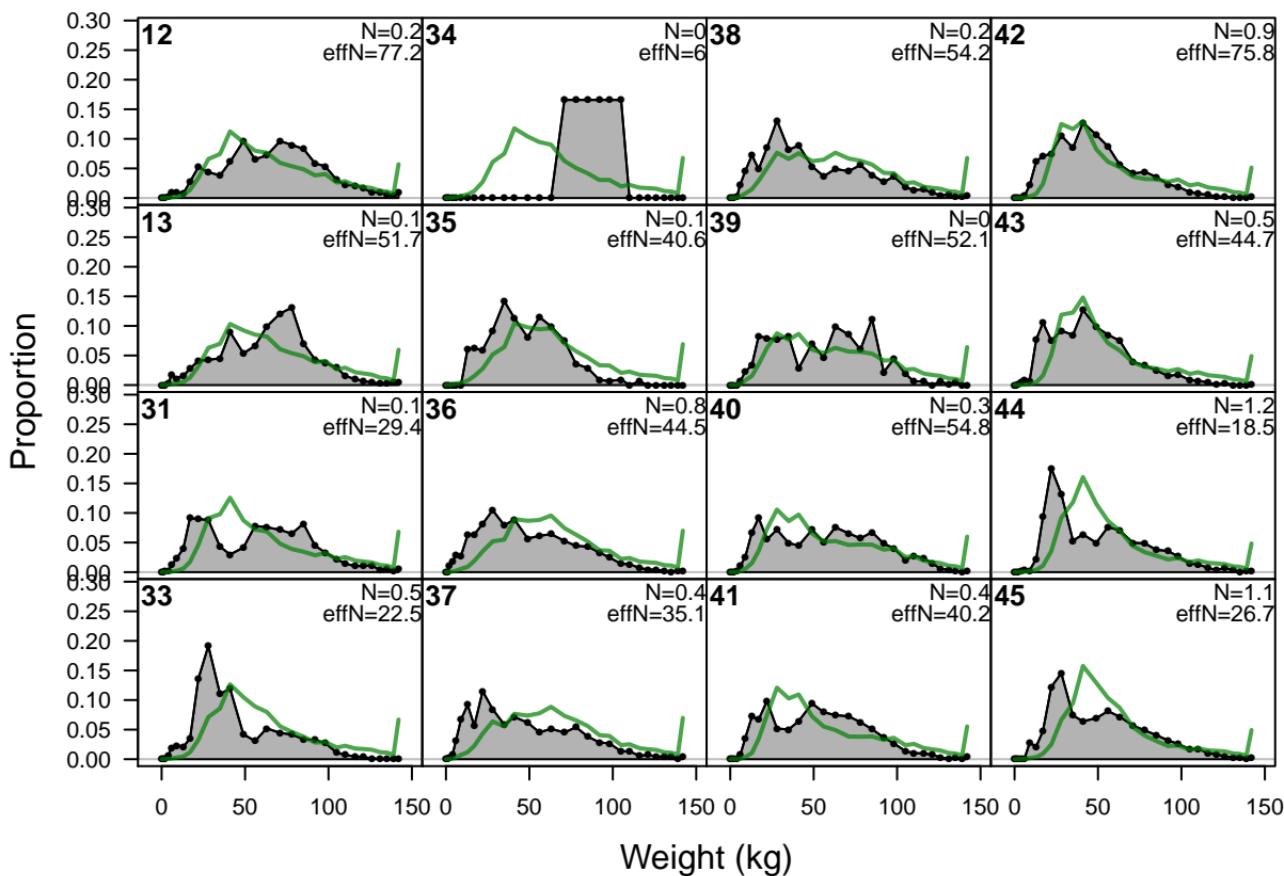
N-EffN comparison, size comps, whole catch, S6-LLc_C_w



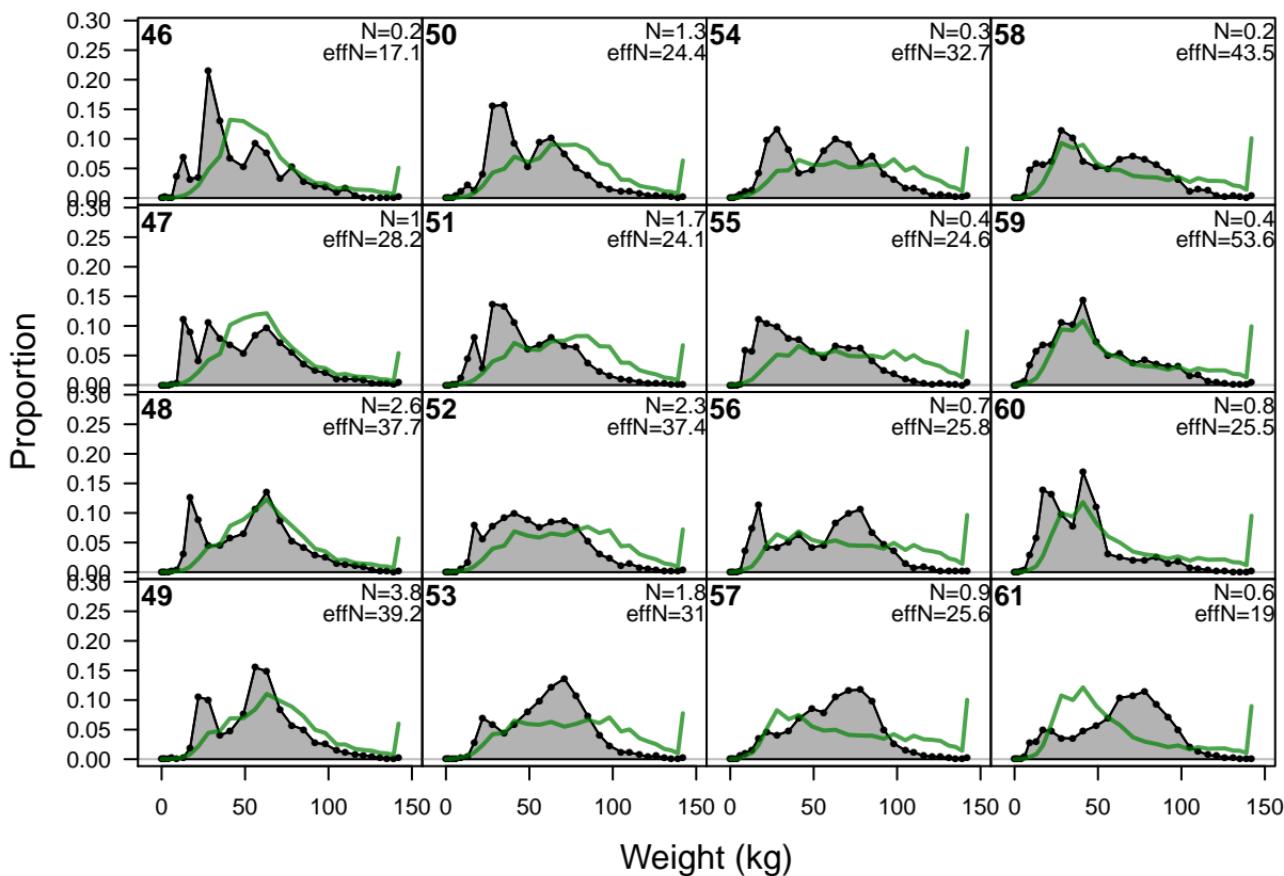
S6-LLc_C_w (whole catch)



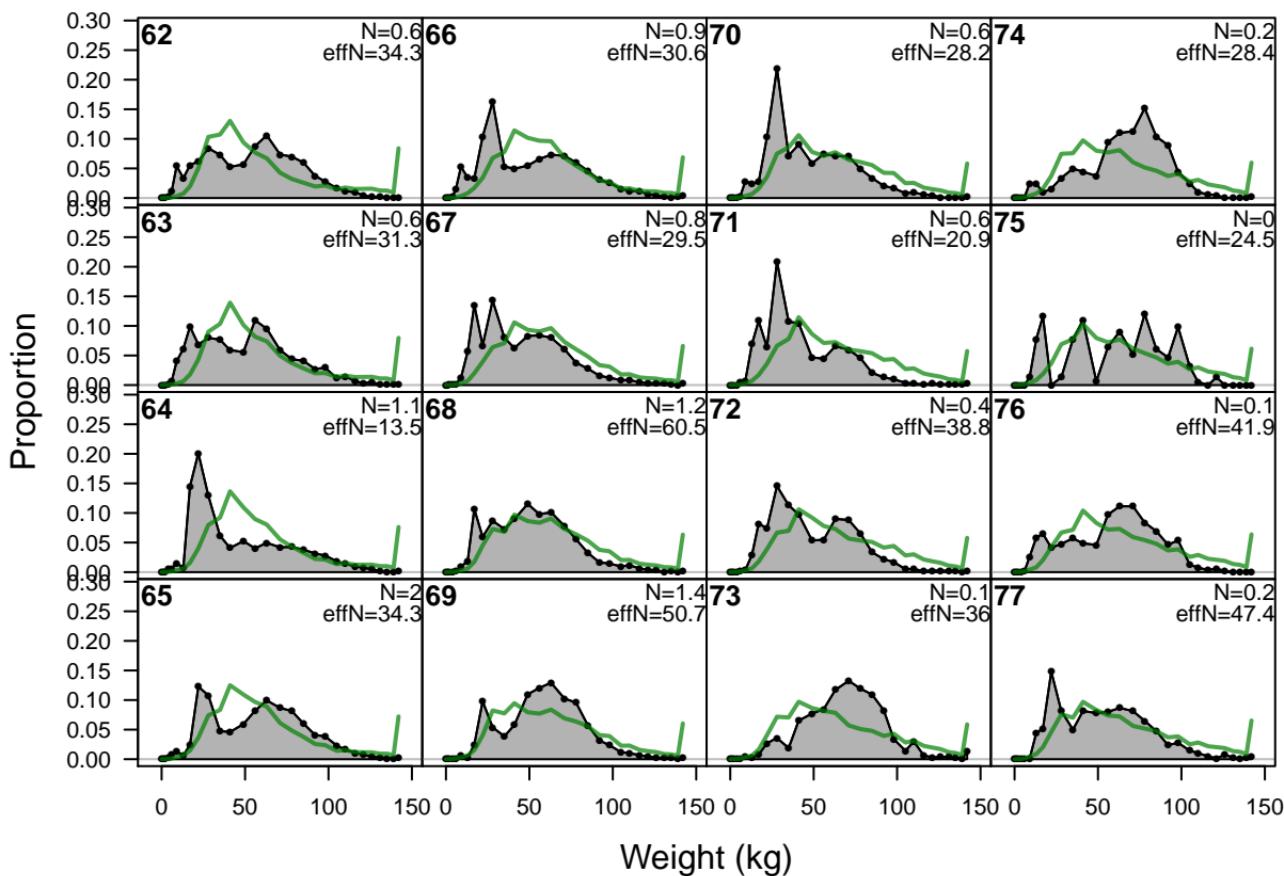
size comps, whole catch, S7-LLc_S_w



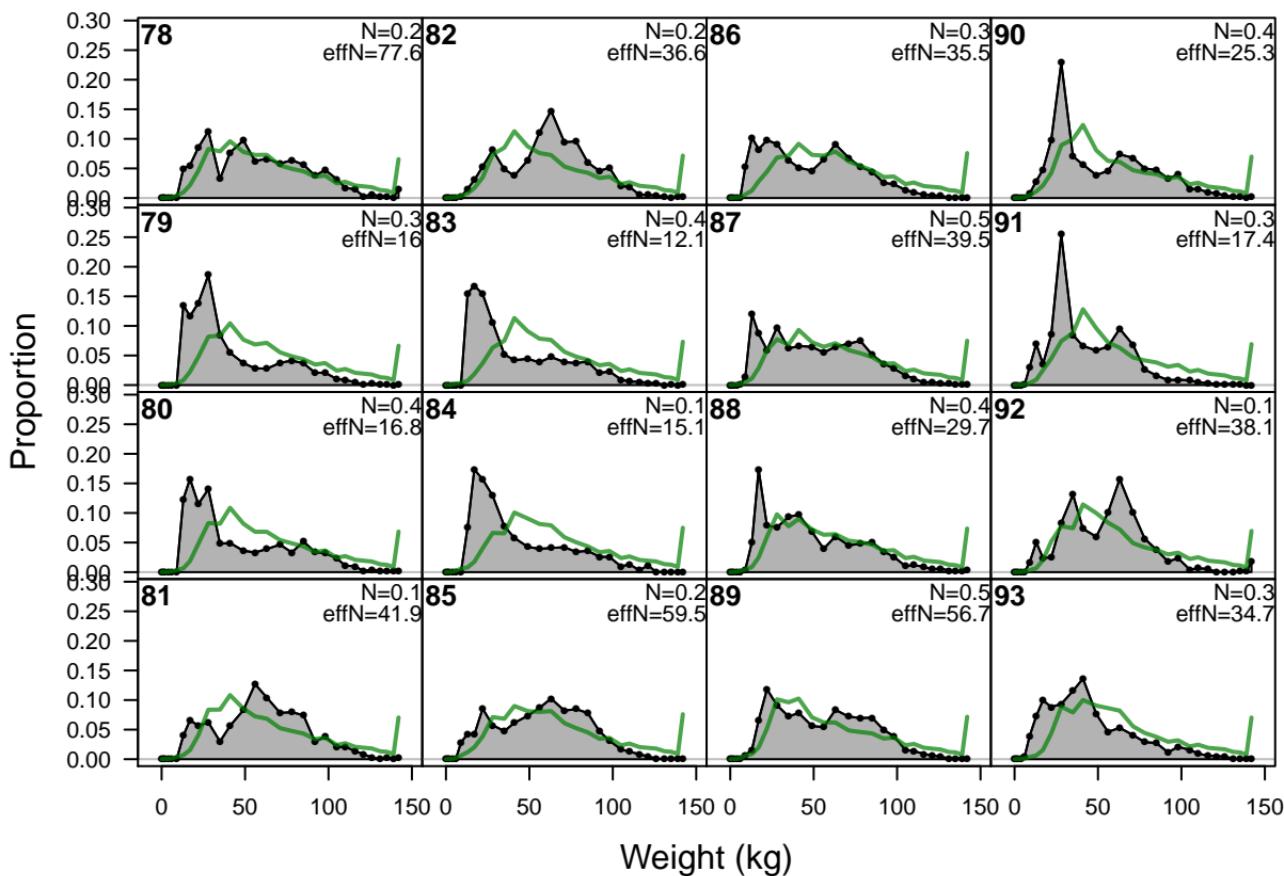
size comps, whole catch, S7-LLc_S_w



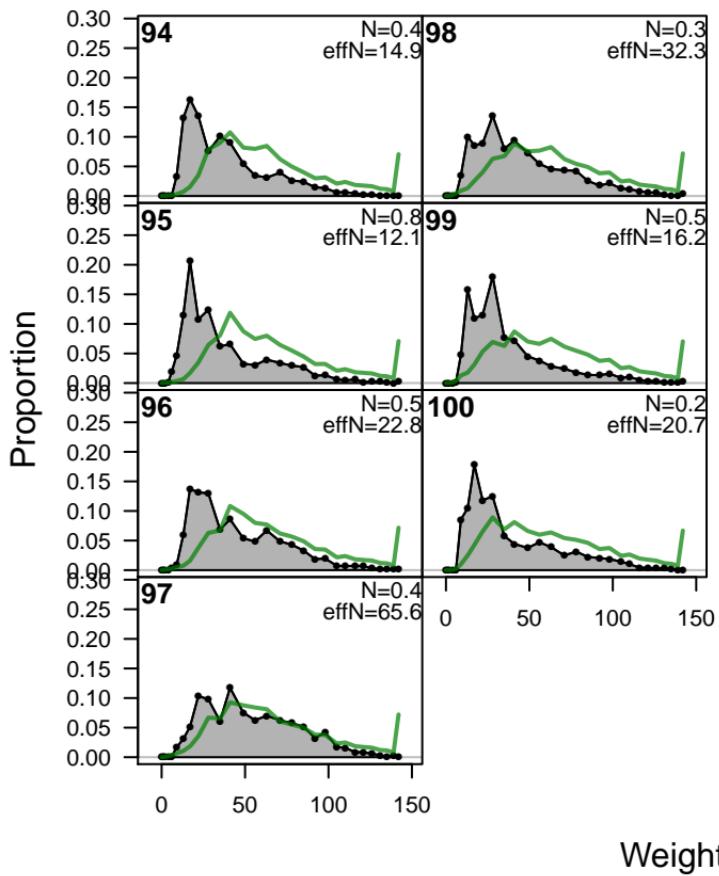
size comps, whole catch, S7-LLc_S_w



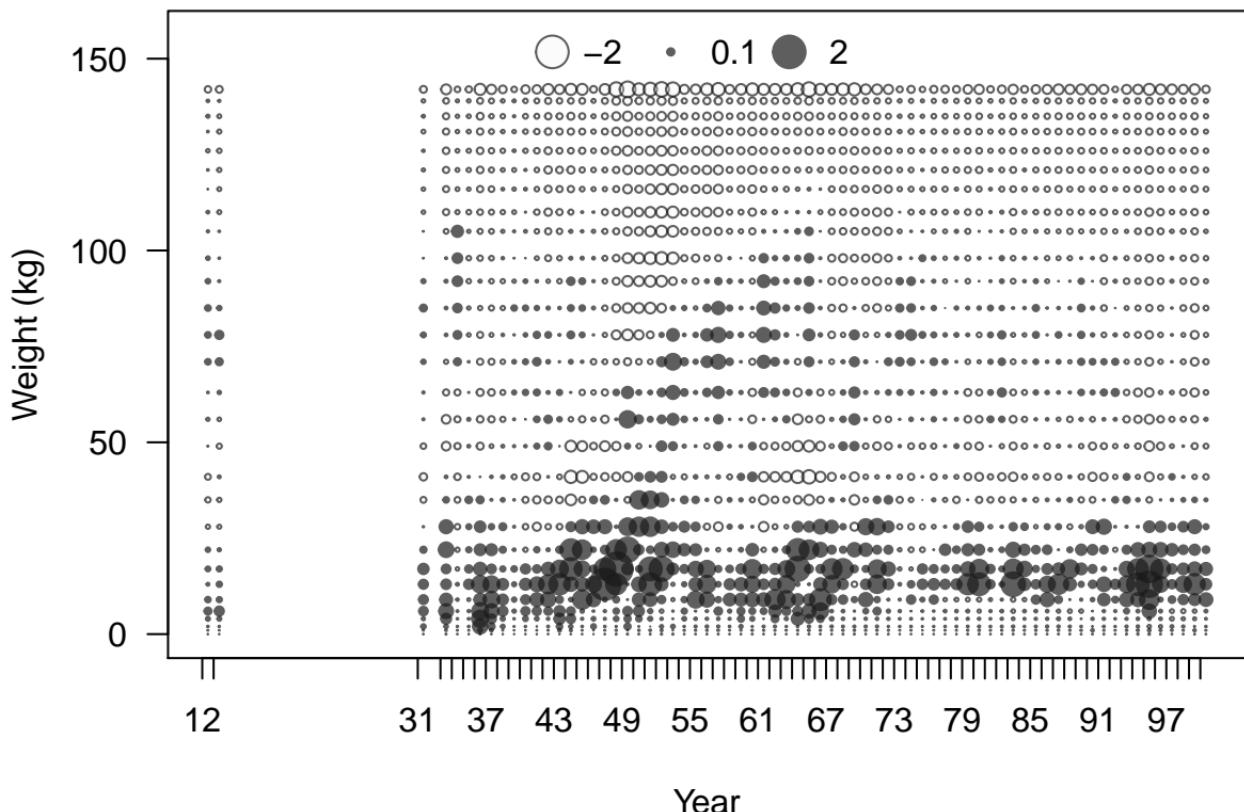
size comps, whole catch, S7-LLc_S_w



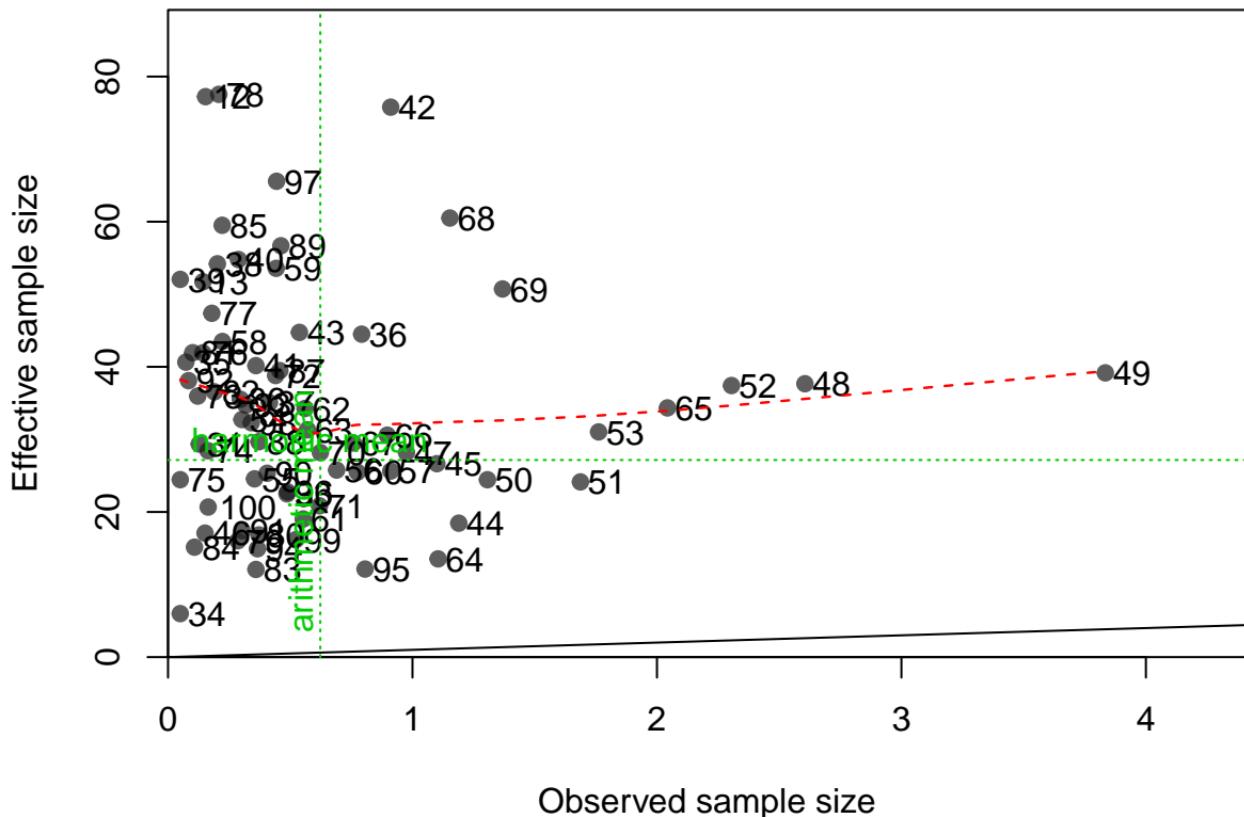
size comps, whole catch, S7-LLc_S_w



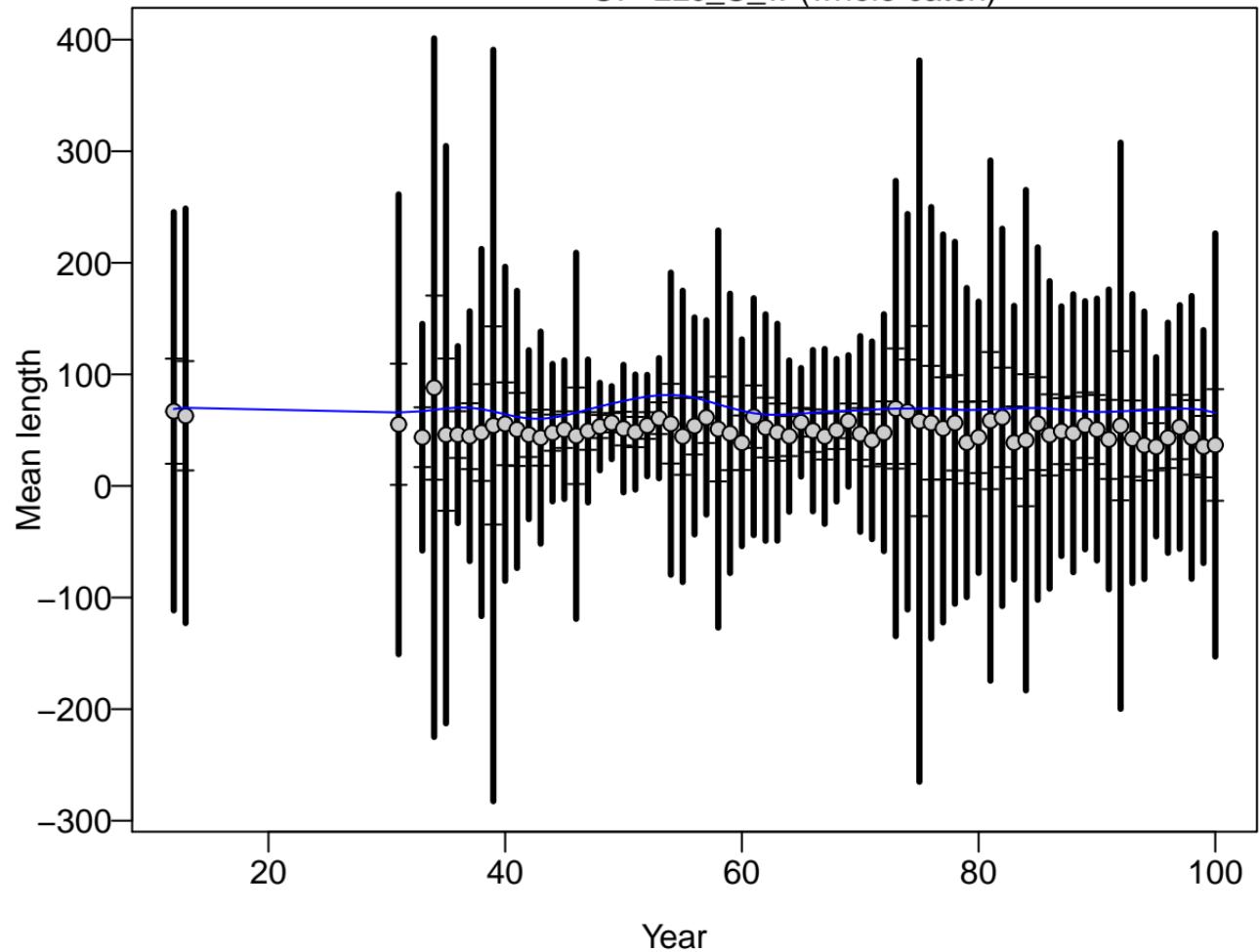
Pearson residuals, whole catch, S7-LLc_S_w (max=2.01)



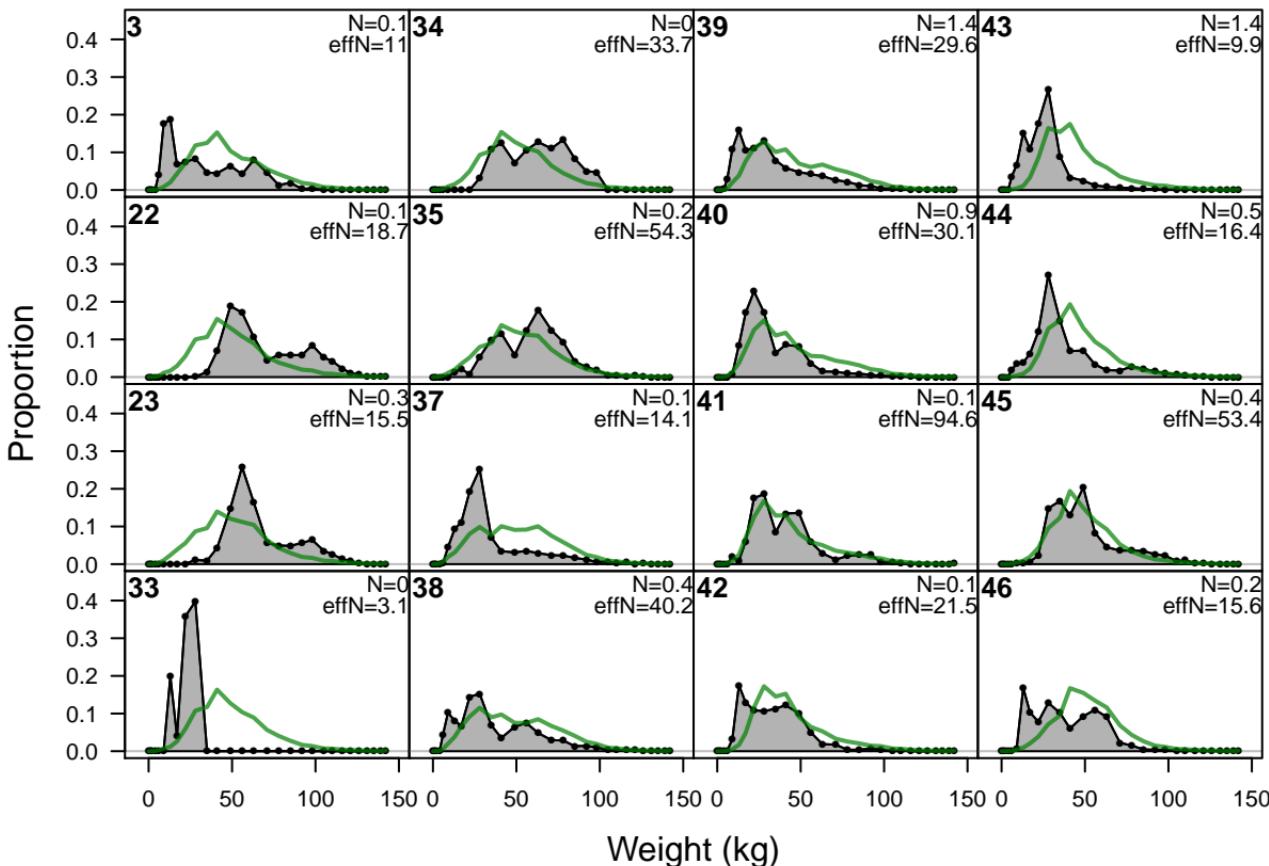
N-EffN comparison, size comps, whole catch, S7-LLc_S_w



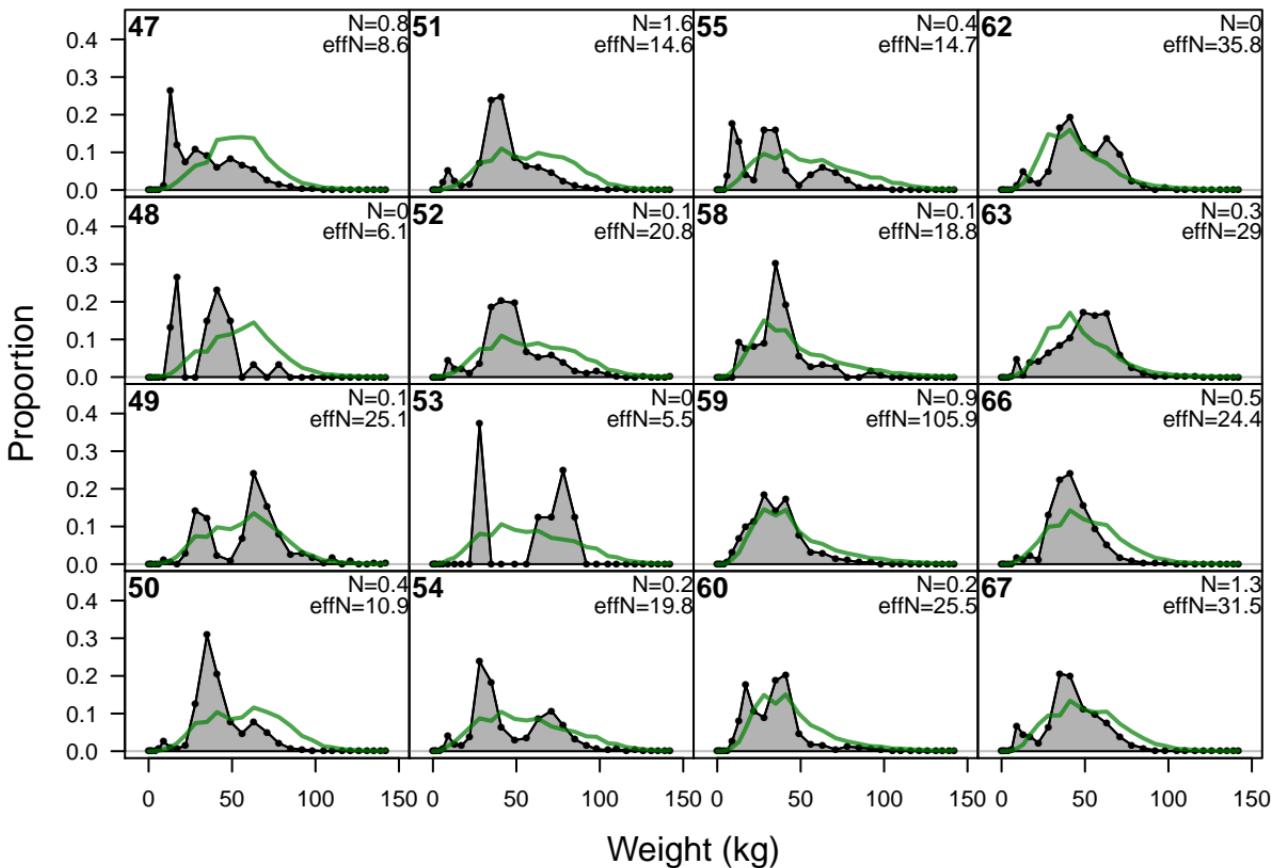
S7-LLc_S_w (whole catch)



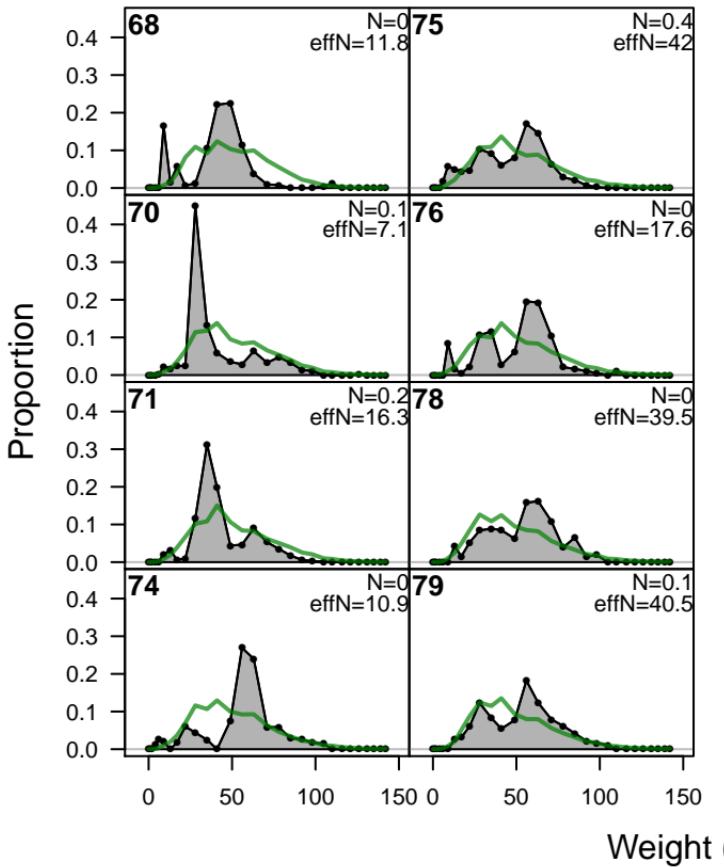
size comps, whole catch, S8-LLc_I_w



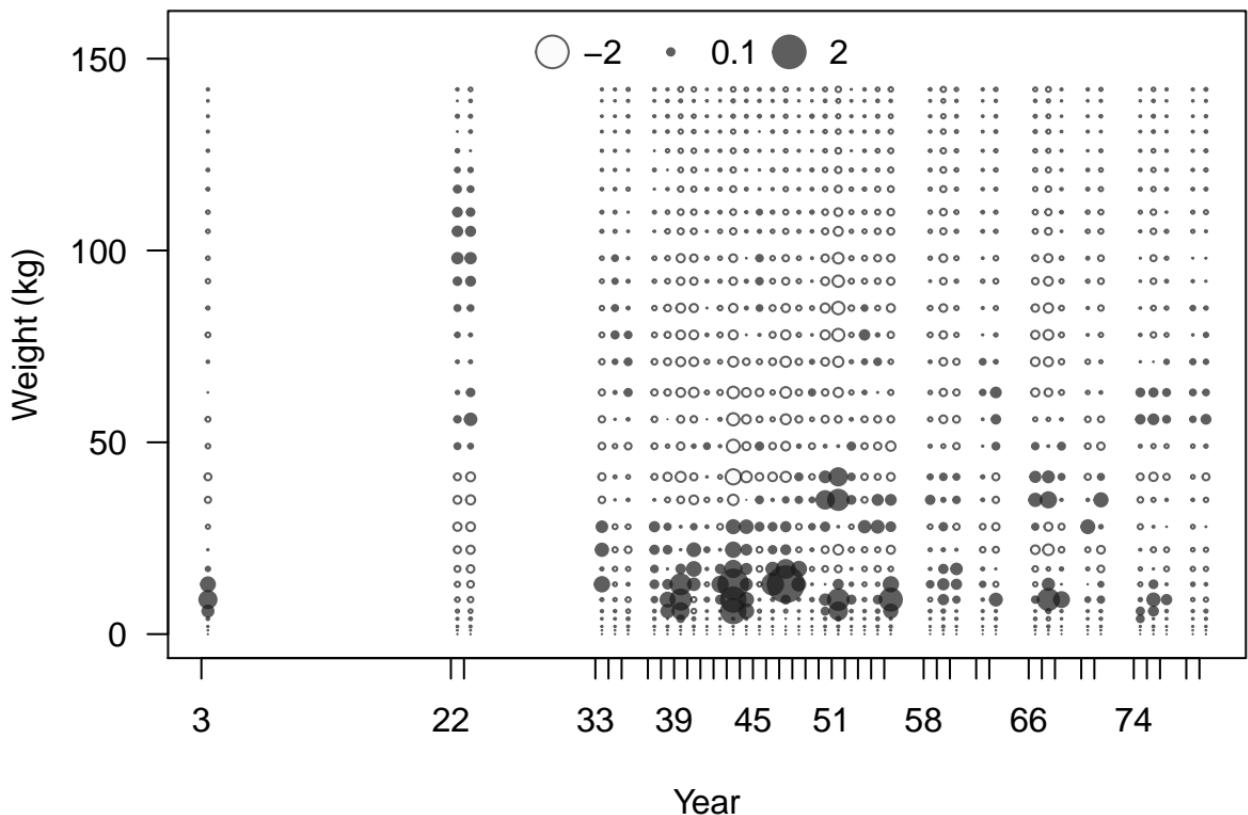
size comps, whole catch, S8-LLc_I_w



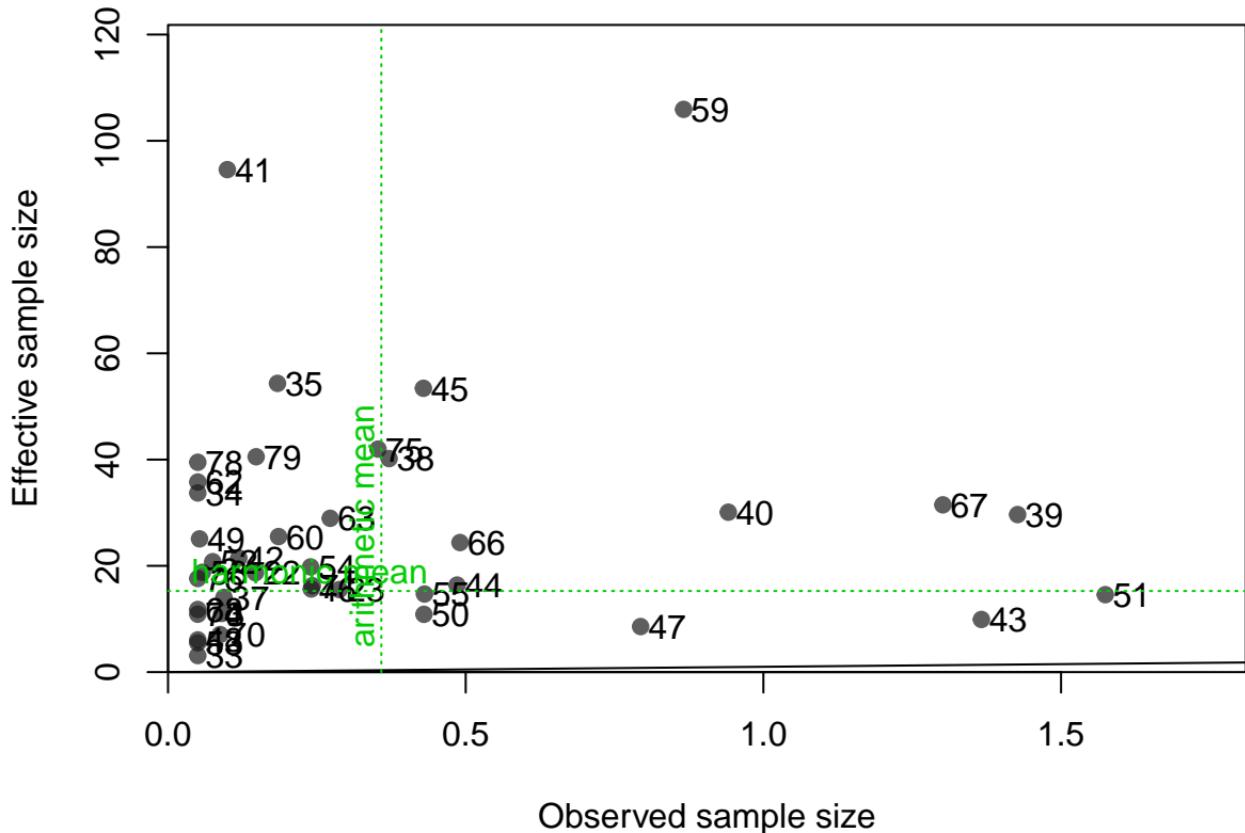
size comps, whole catch, S8-LLc_I_w



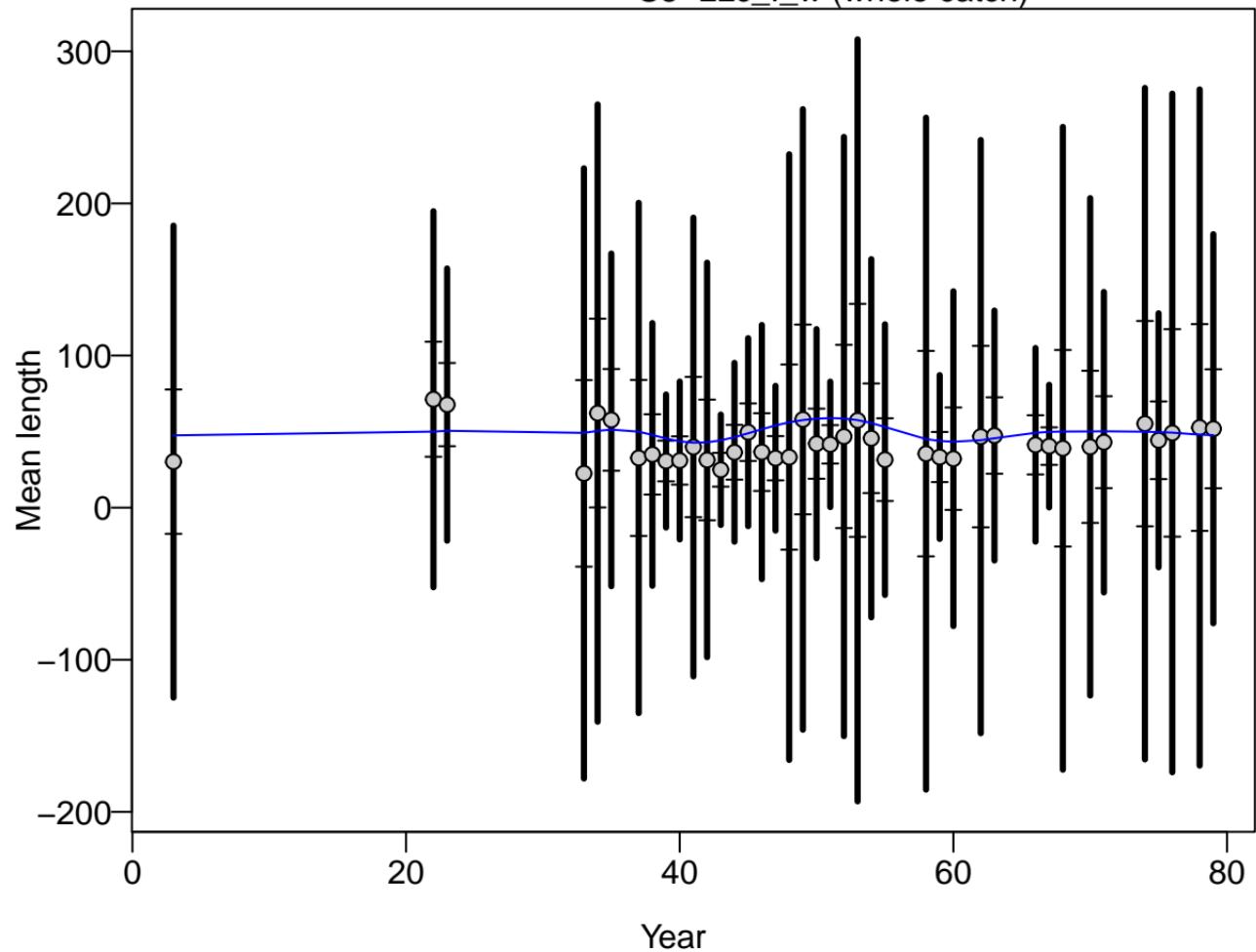
Pearson residuals, whole catch, S8–LLc_I_w (max=2.4)



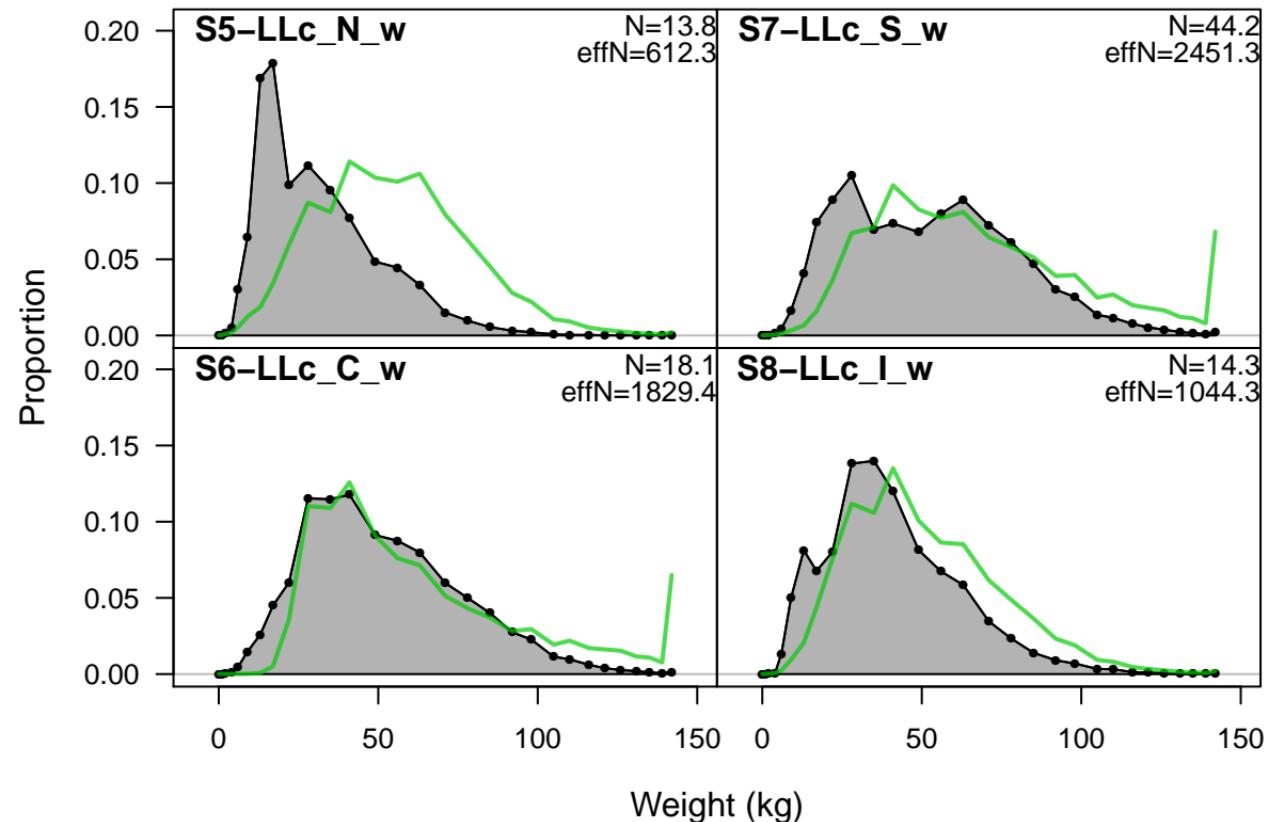
N-EffN comparison, size comps, whole catch, S8-LLc_I_w



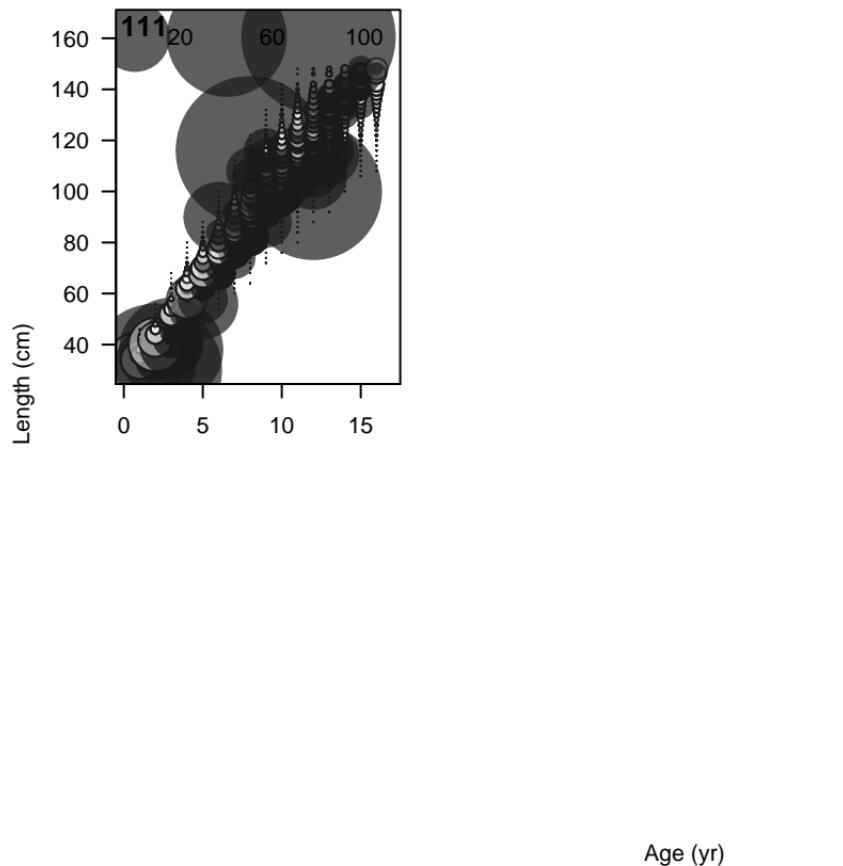
S8-LLc_I_w (whole catch)



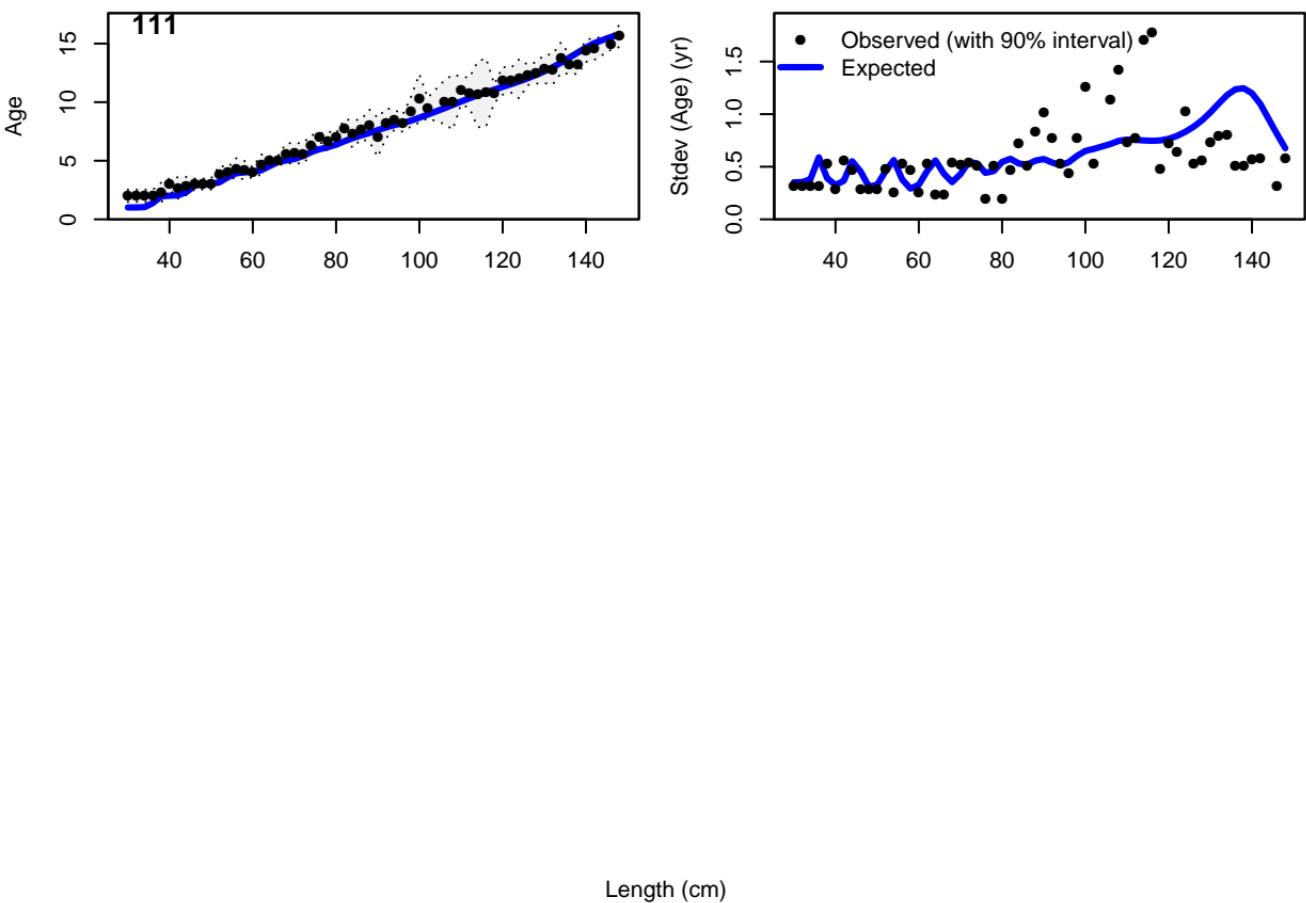
size comps, whole catch, aggregated across time by fleet

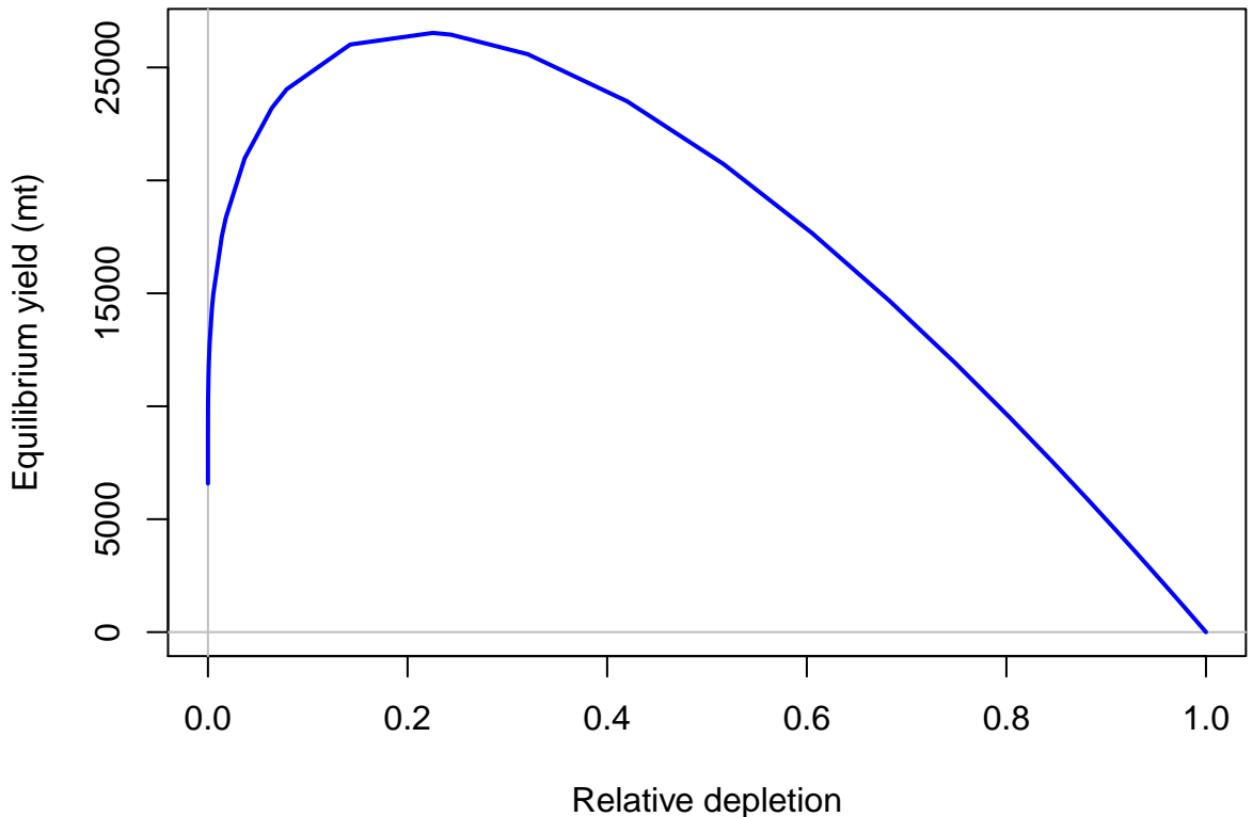


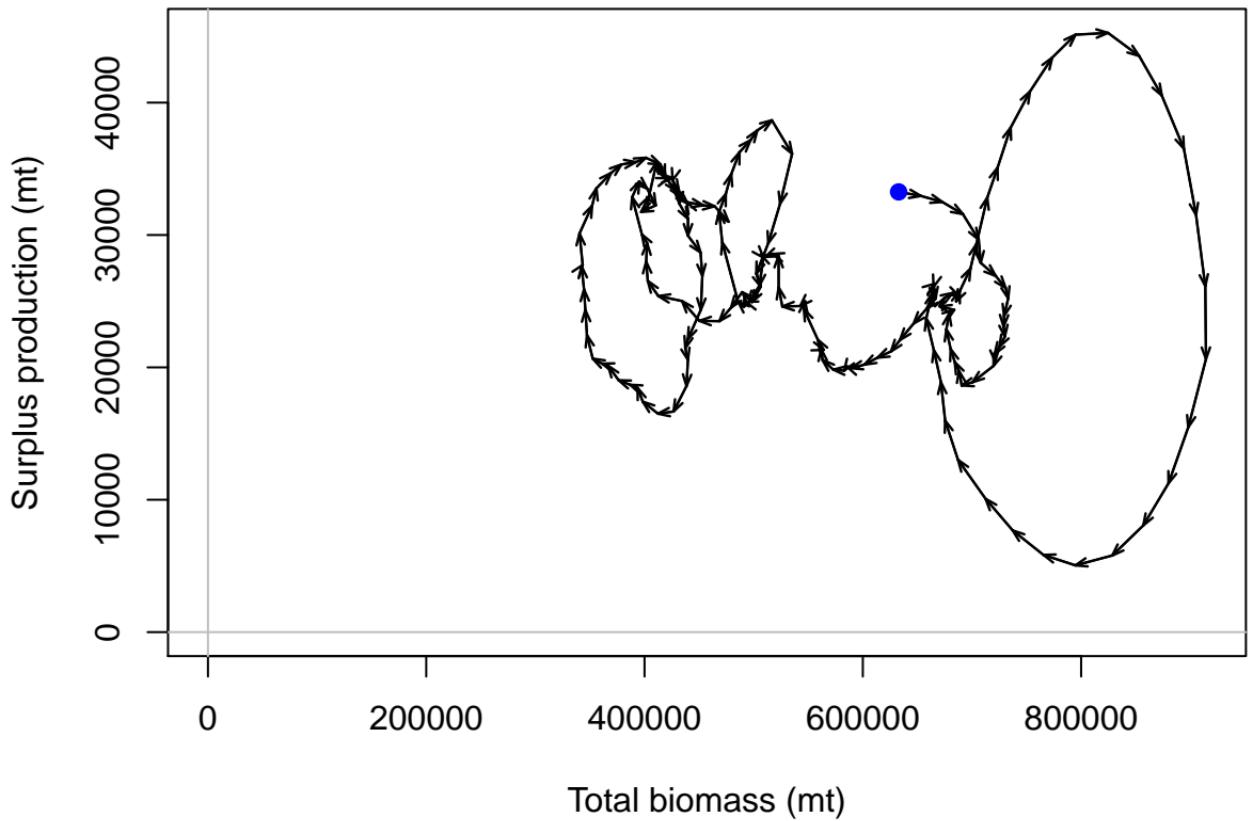
Pearson residuals, whole catch, F3-OBJ_C (max=93.17)



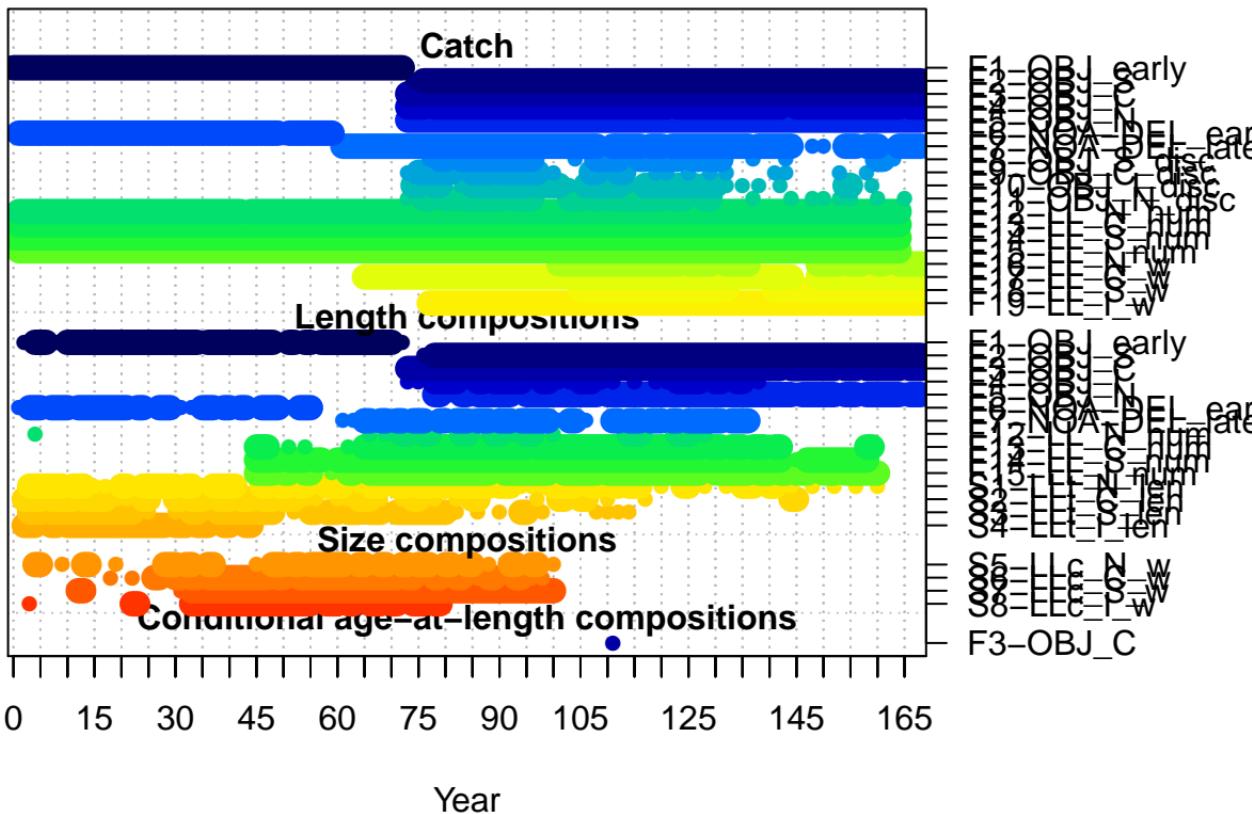
Conditional AAL plot, whole catch, F3-OBJ_C







Data by type and year



Data by type and year, circle area is relative to precision within data type

