

Plots created using the 'r4ss' package in R

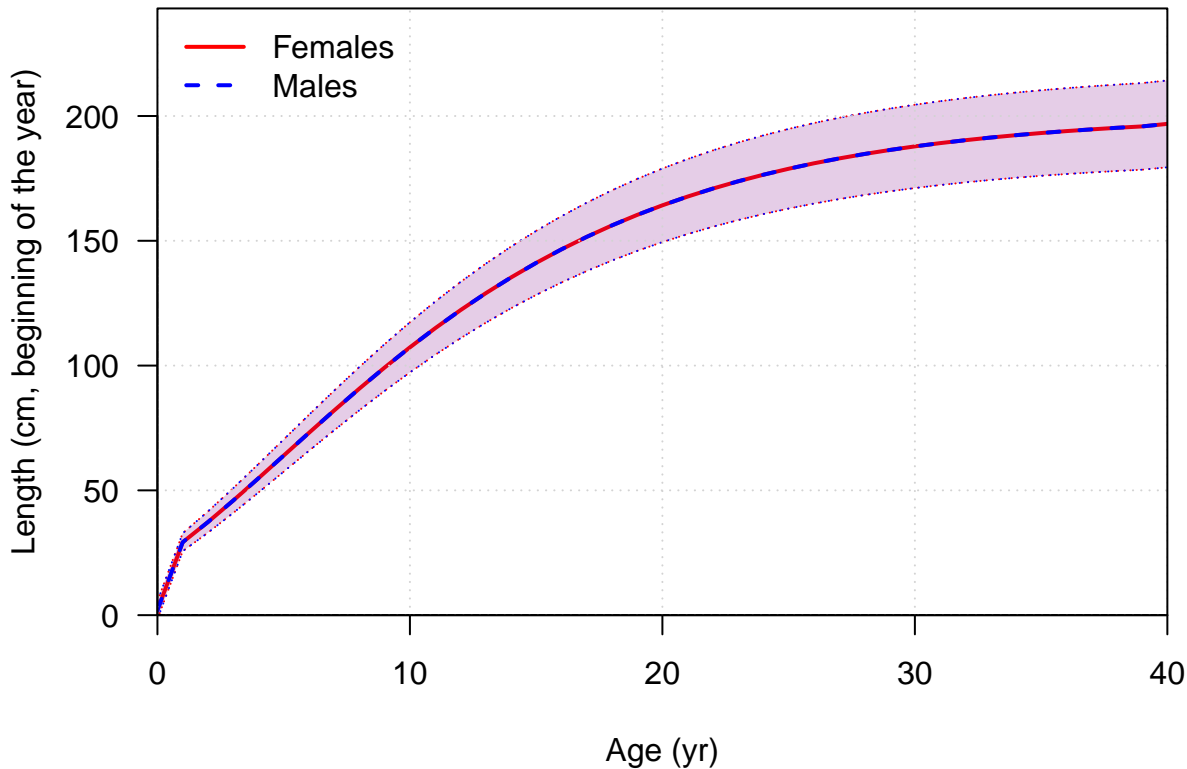
Stock Synthesis version: SS-V3.23b

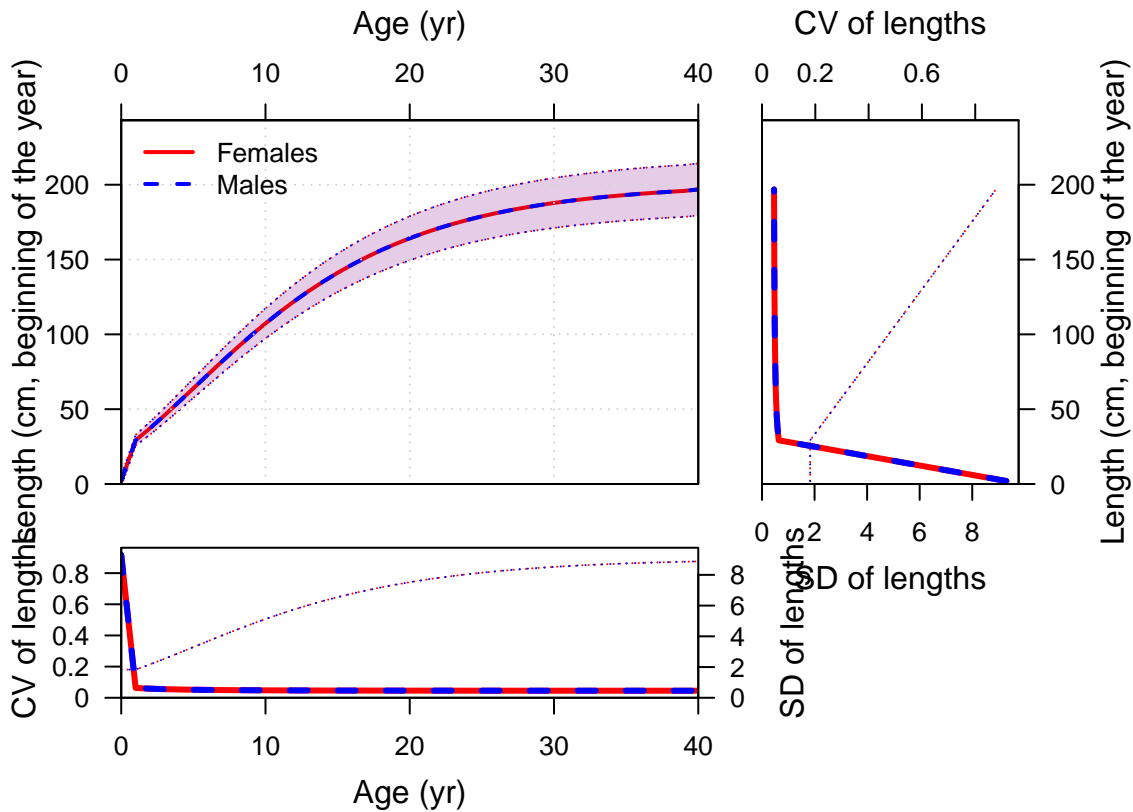
StartTime: Mon Apr 16 09:26:06 2018

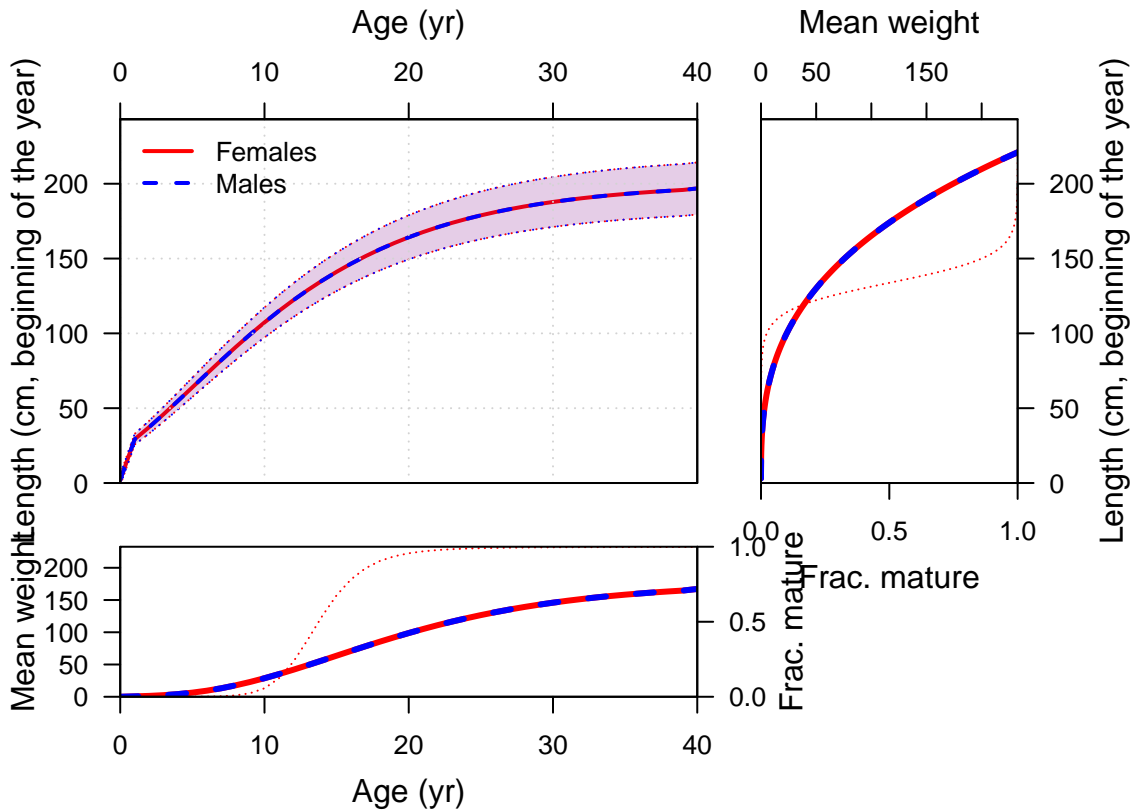
Data_File: BET-EPO.dat

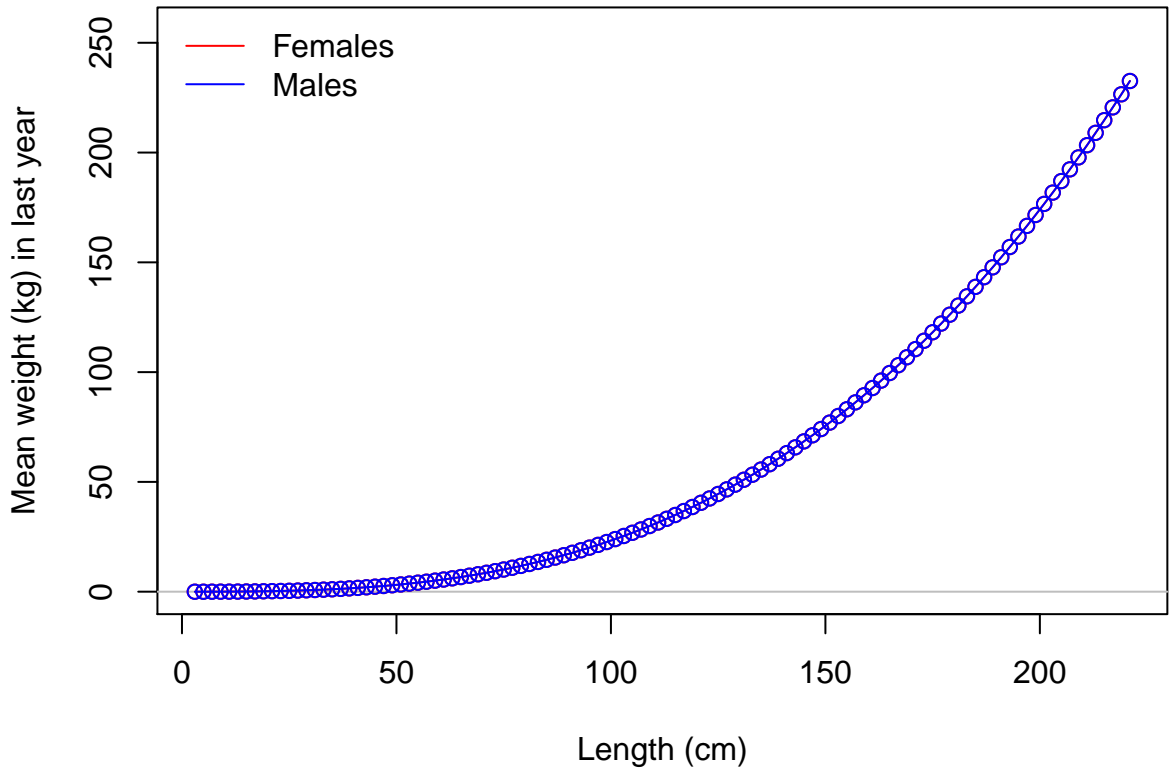
Control_File: BET-EPO.ctl

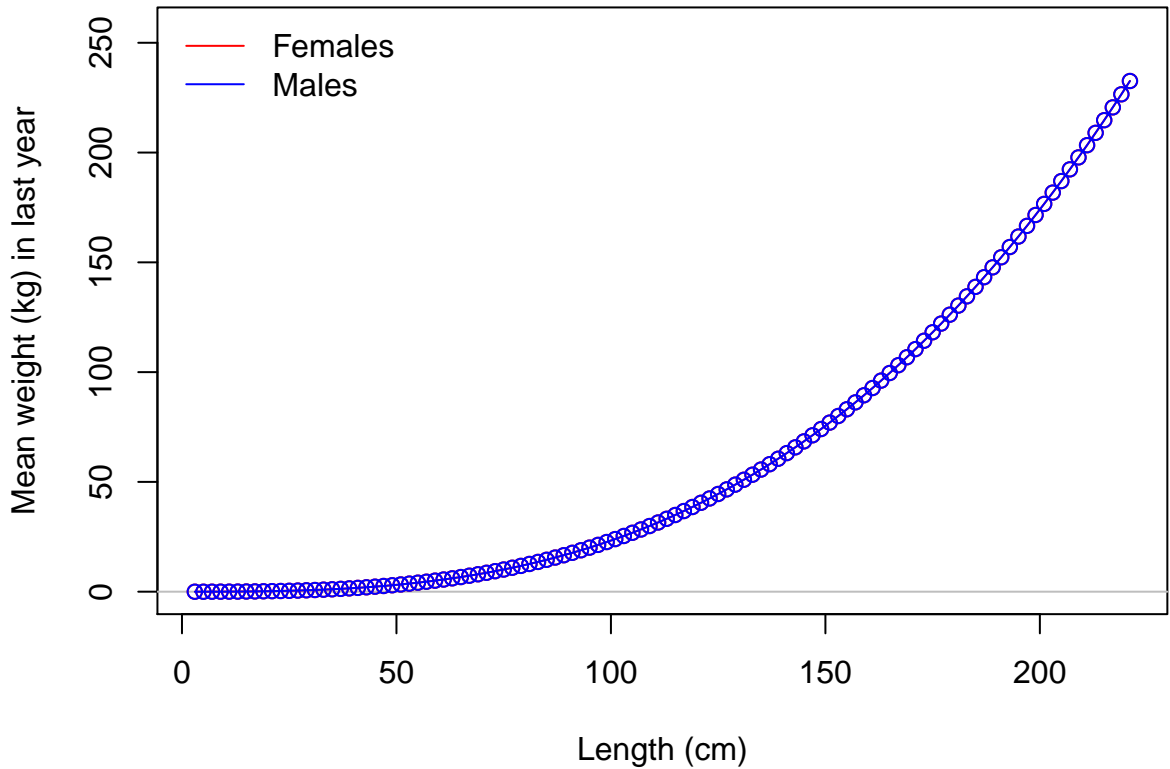
Ending year expected growth (with 95% intervals)

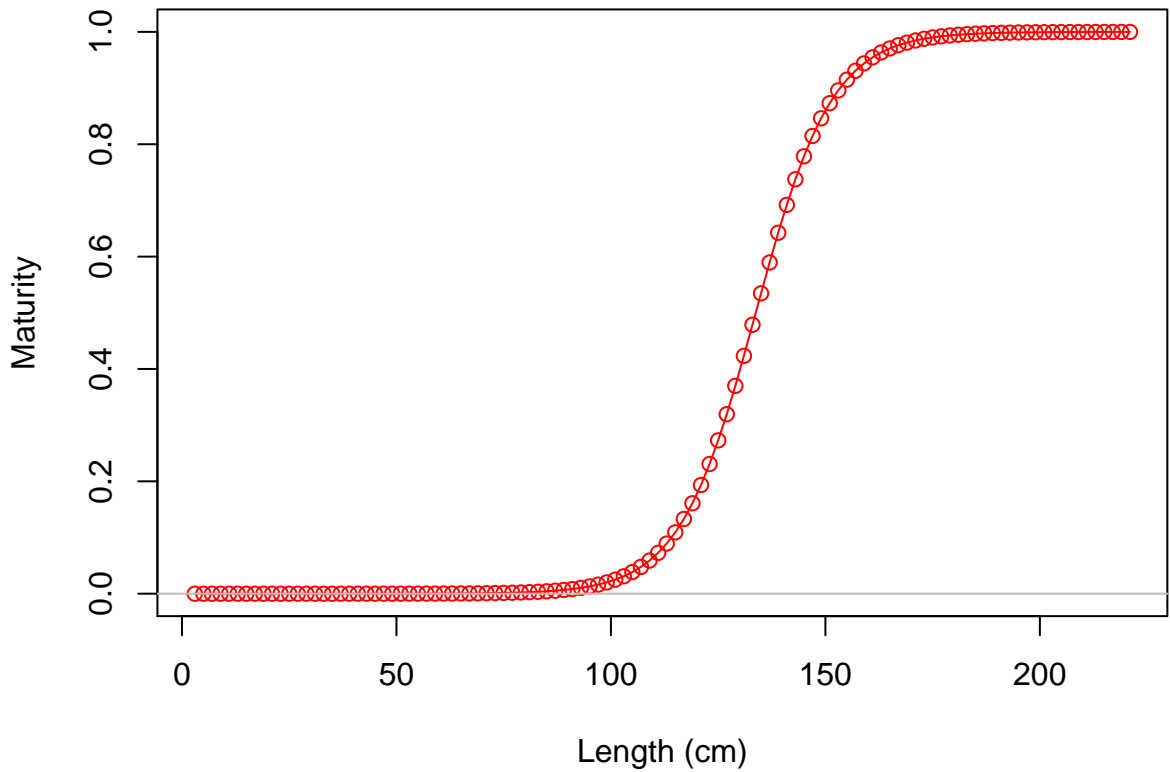


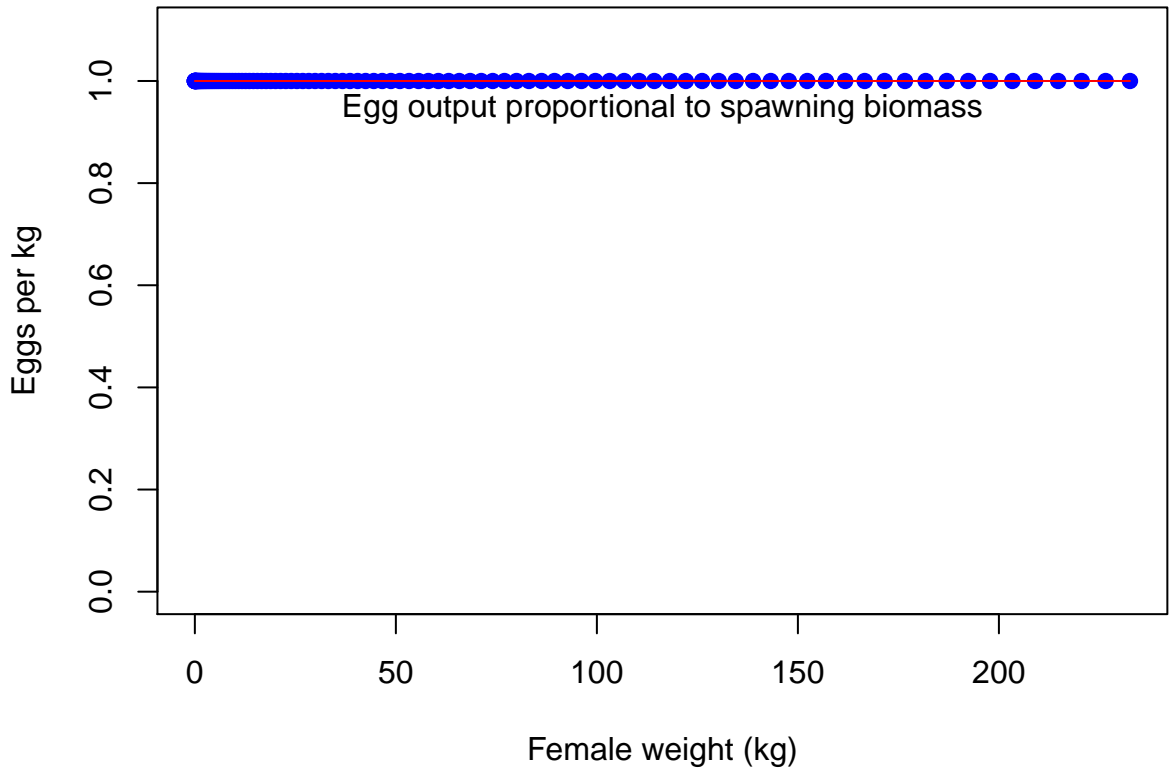


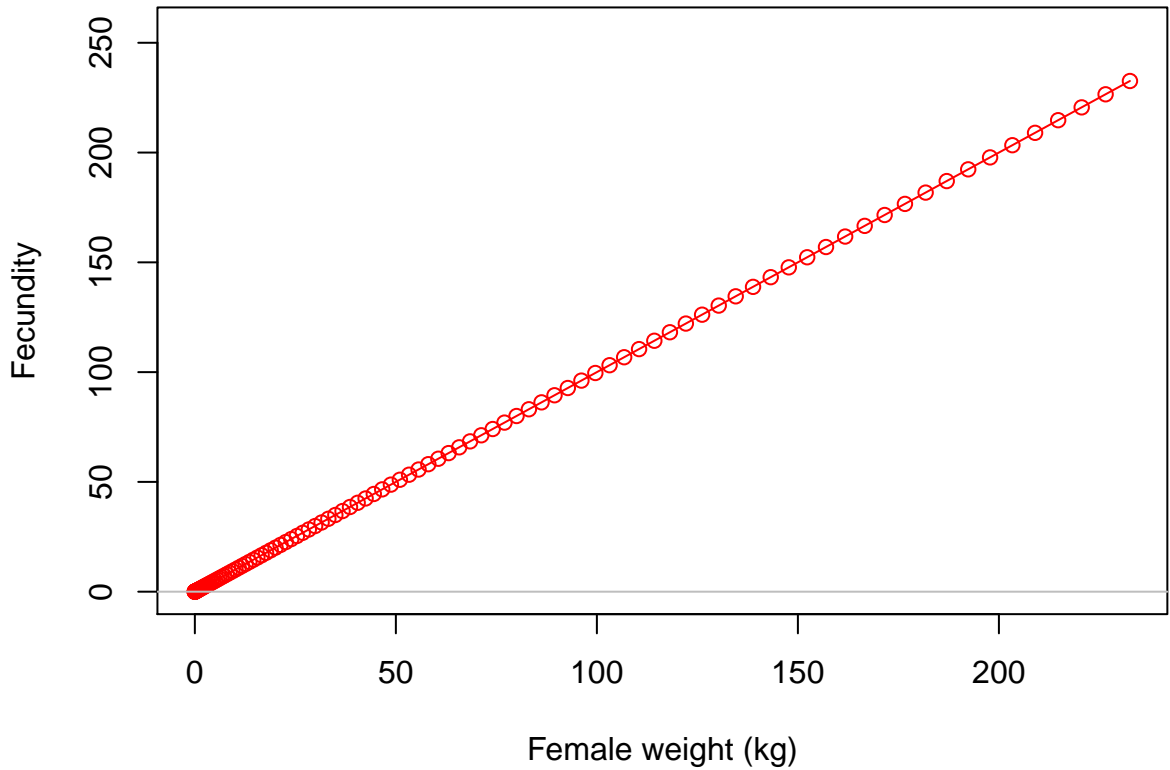


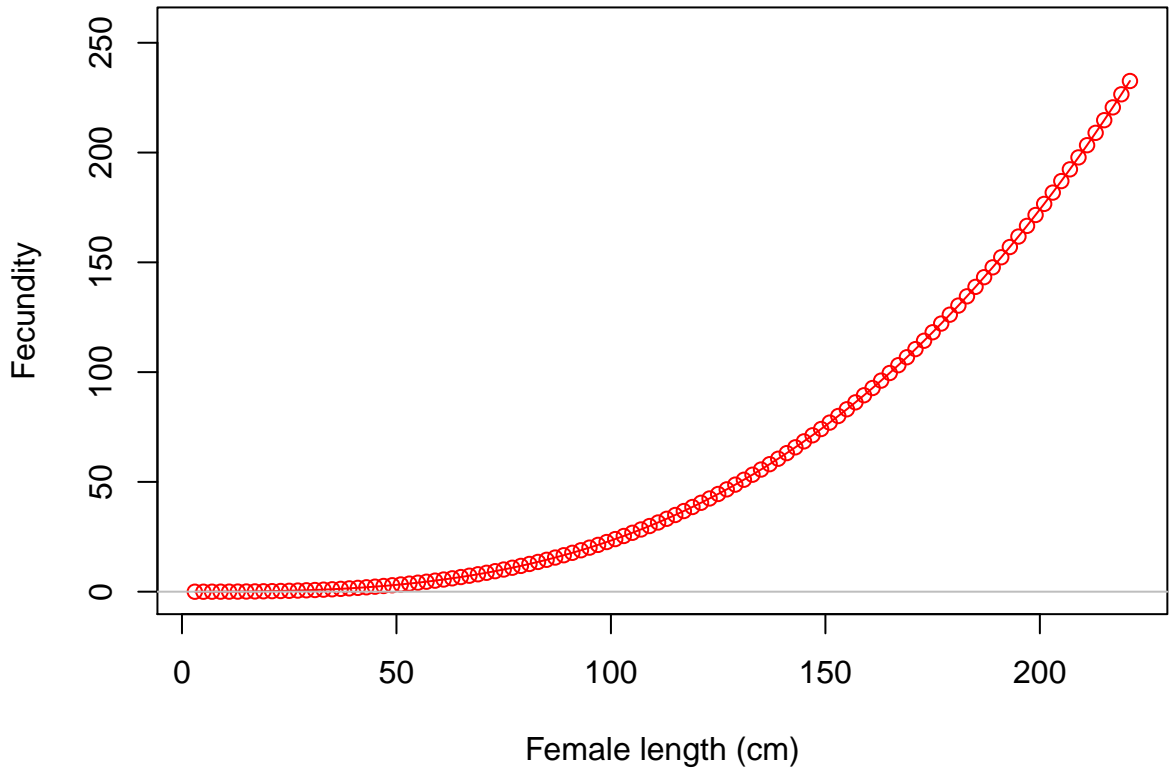


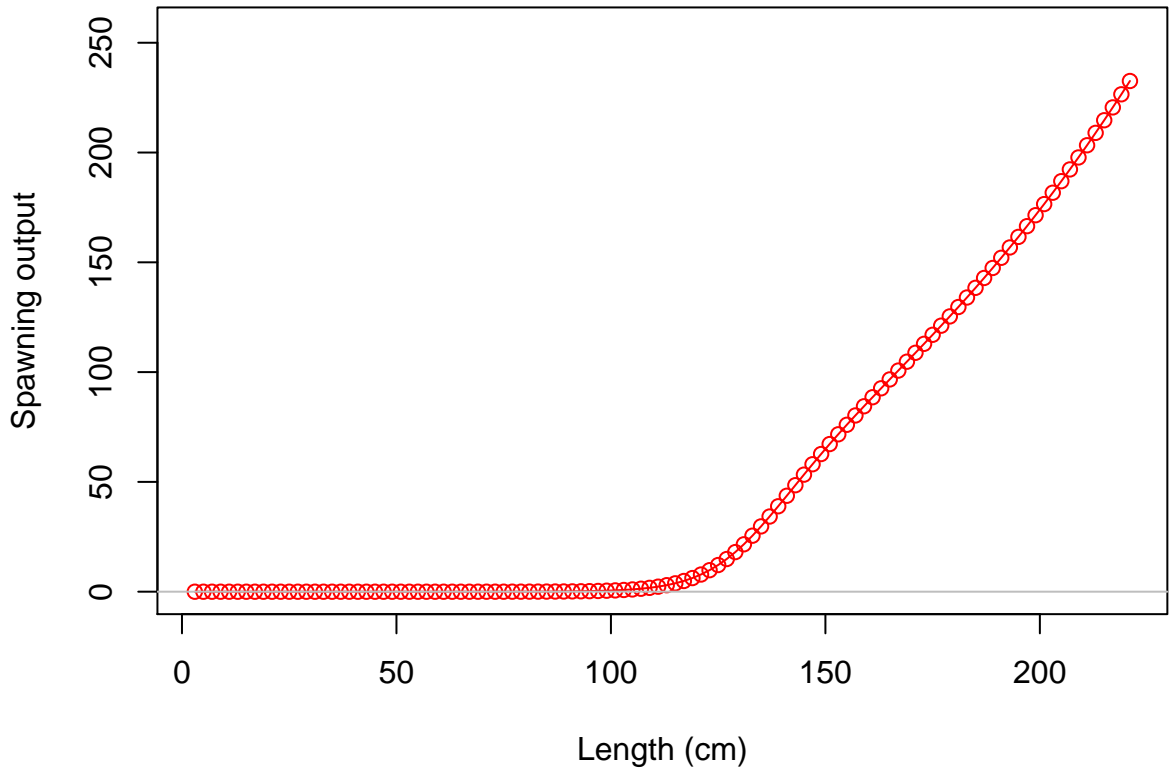


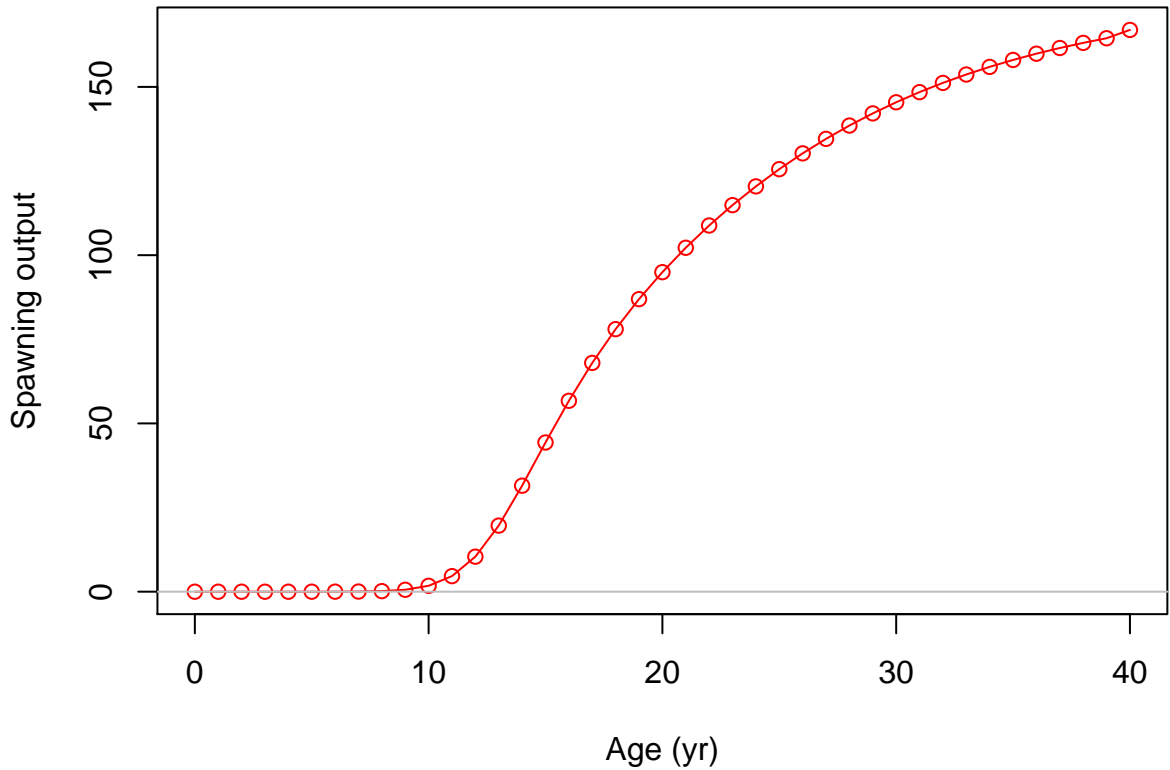




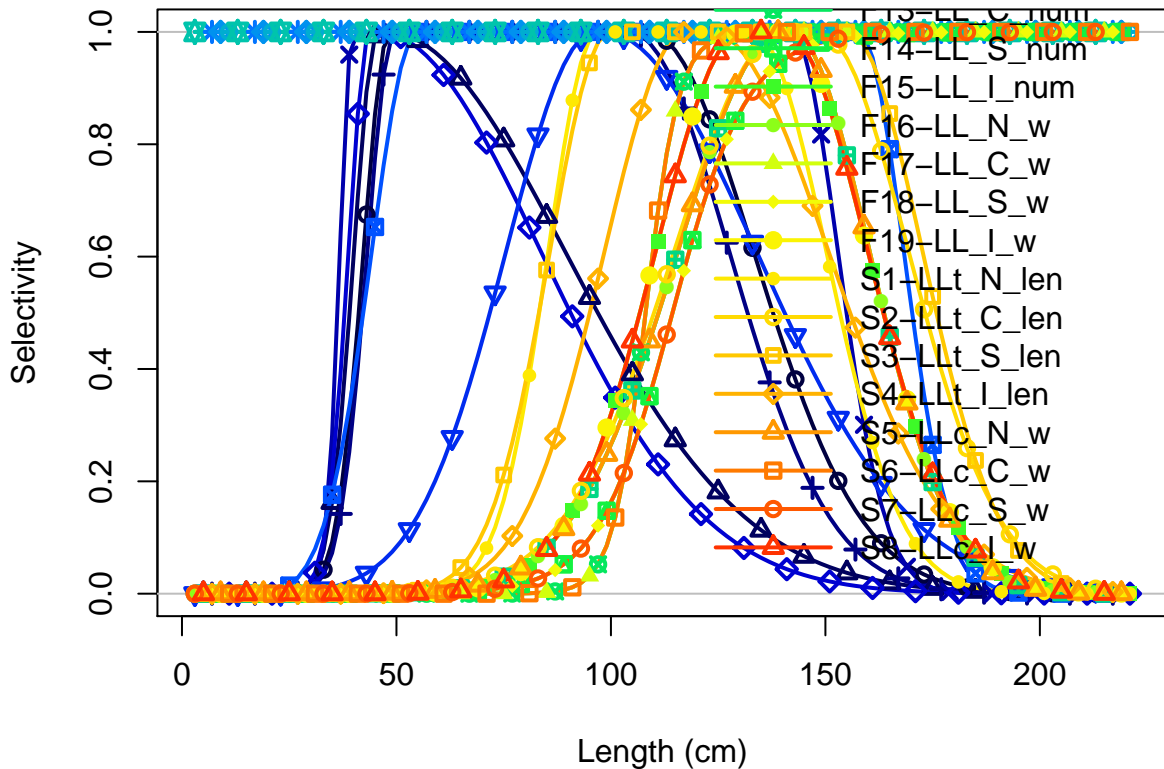




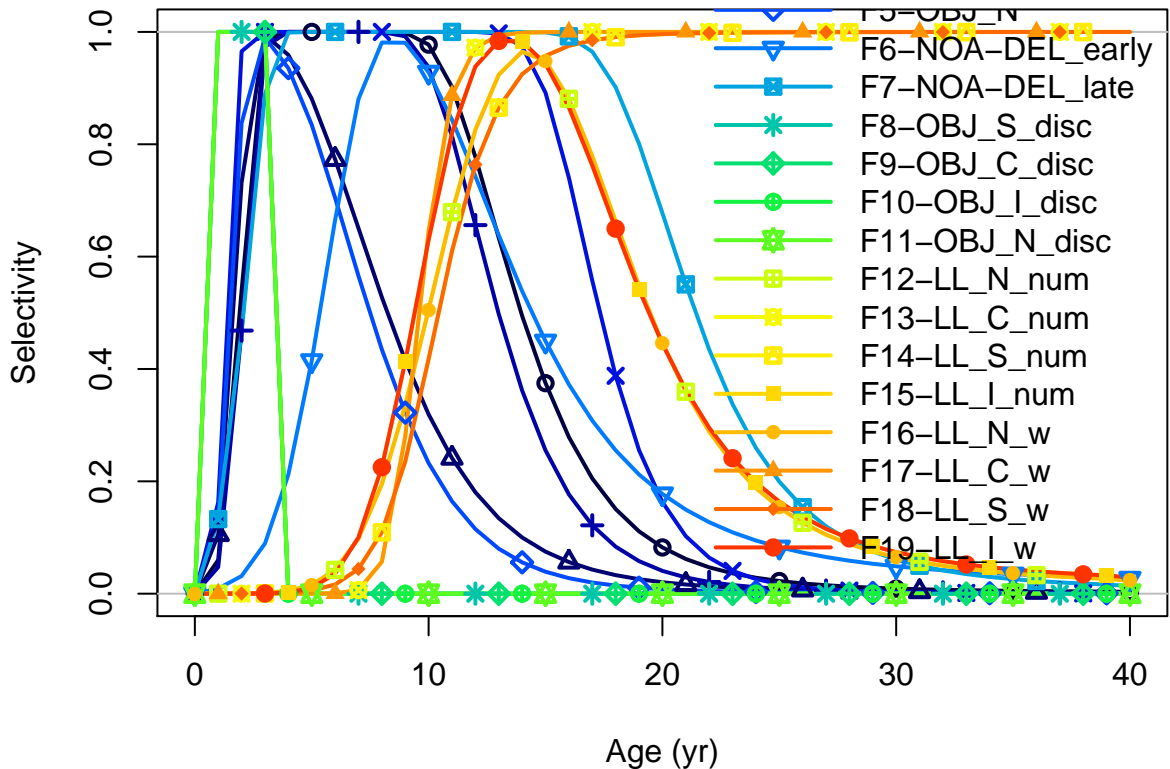




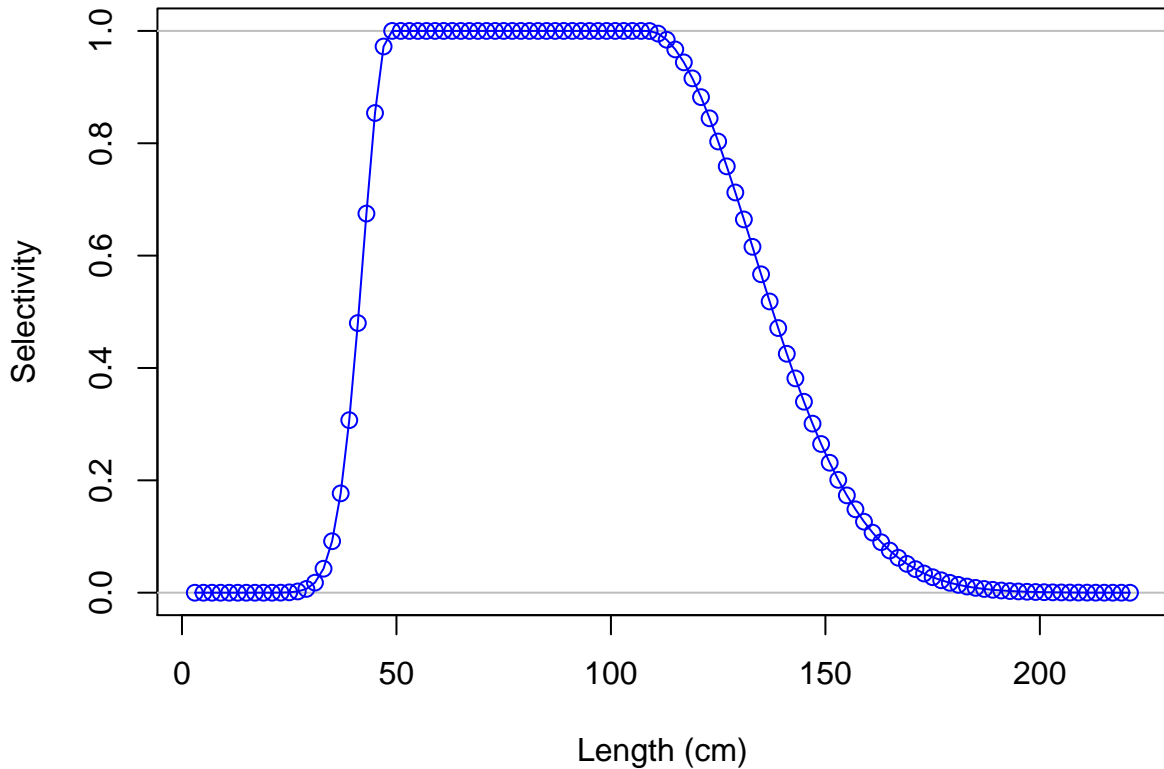
Length-based selectivity by fleet in 172



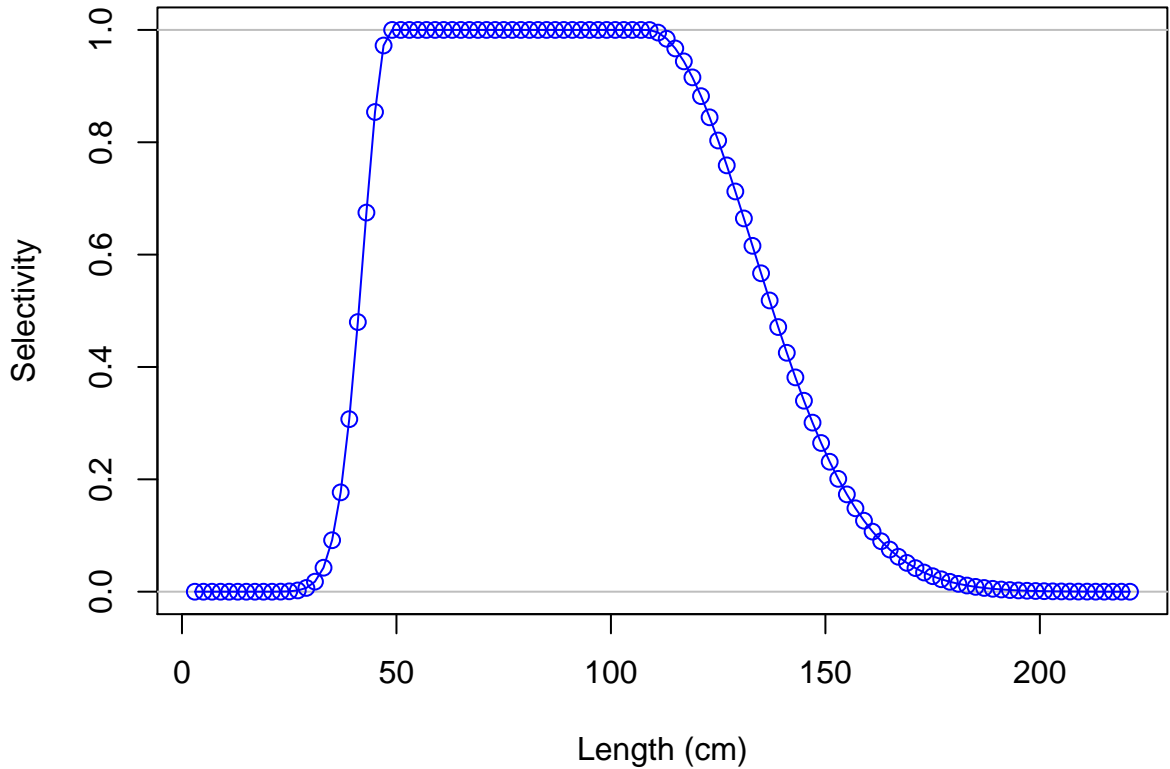
Derived age-based from length-based selectivity by fleet in 172



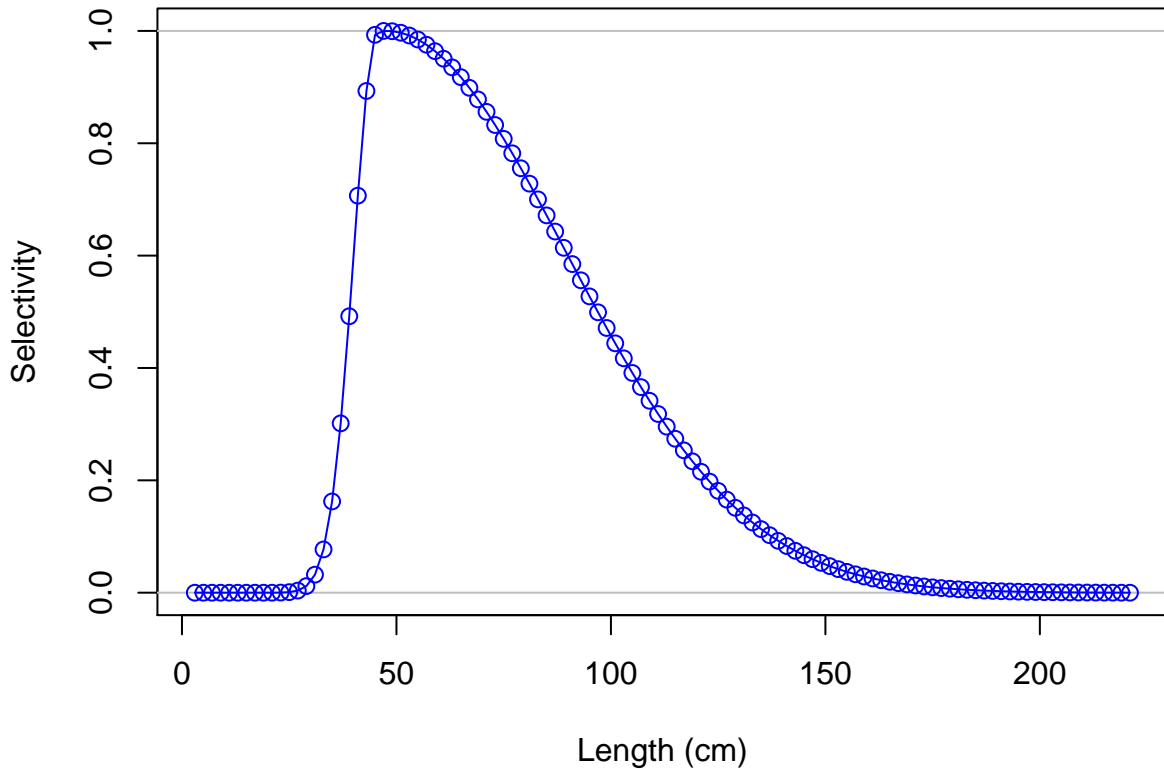
Female ending year selectivity for F1-OBJ_early



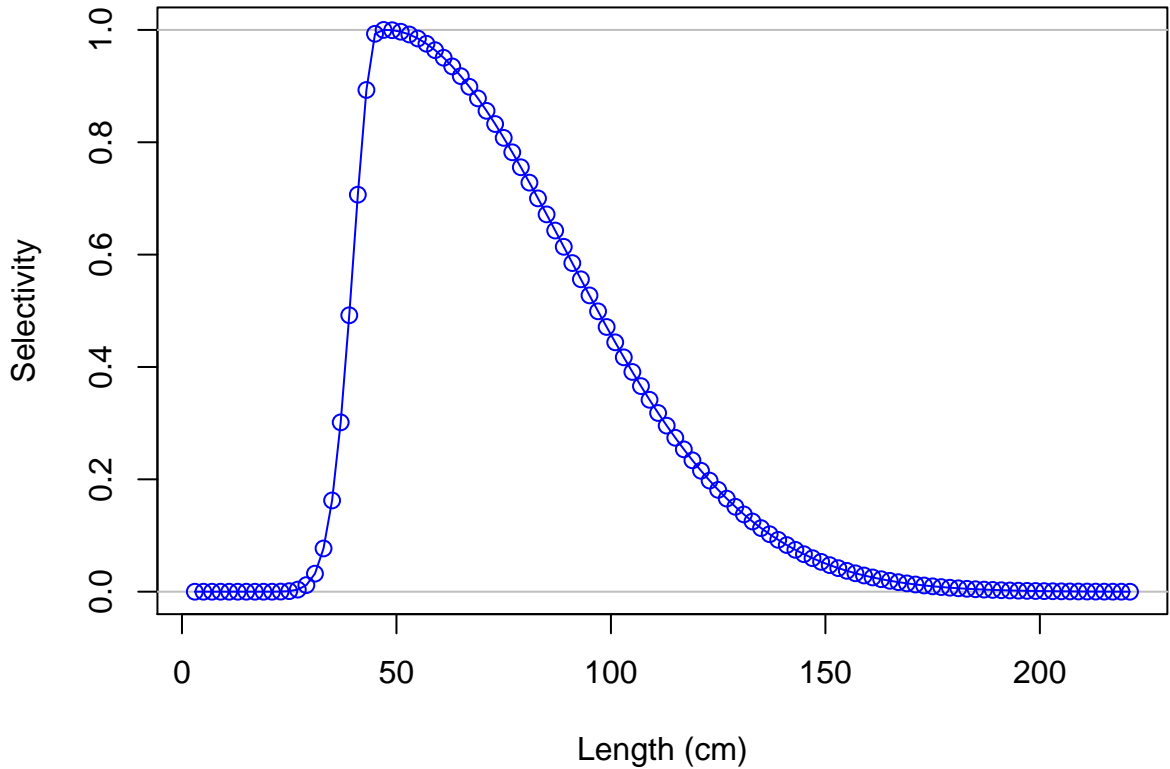
Male ending year selectivity for F1-OBJ_early



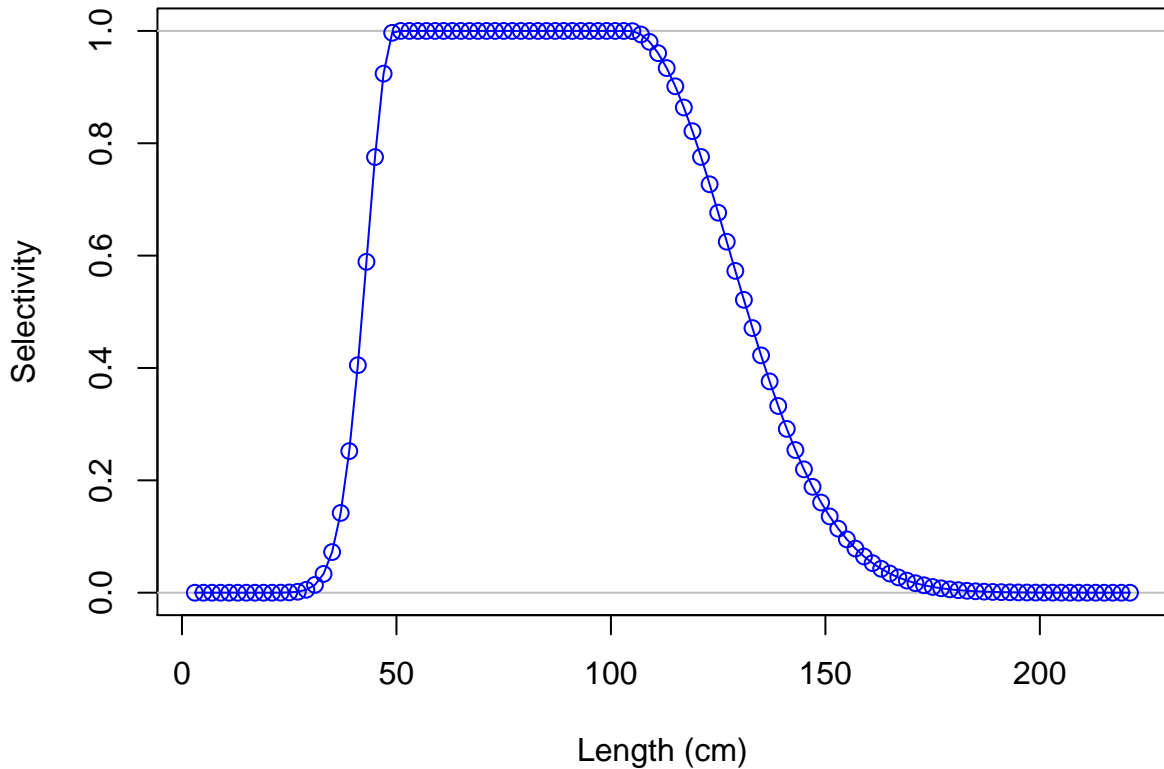
Female ending year selectivity for F2-OBJ_S



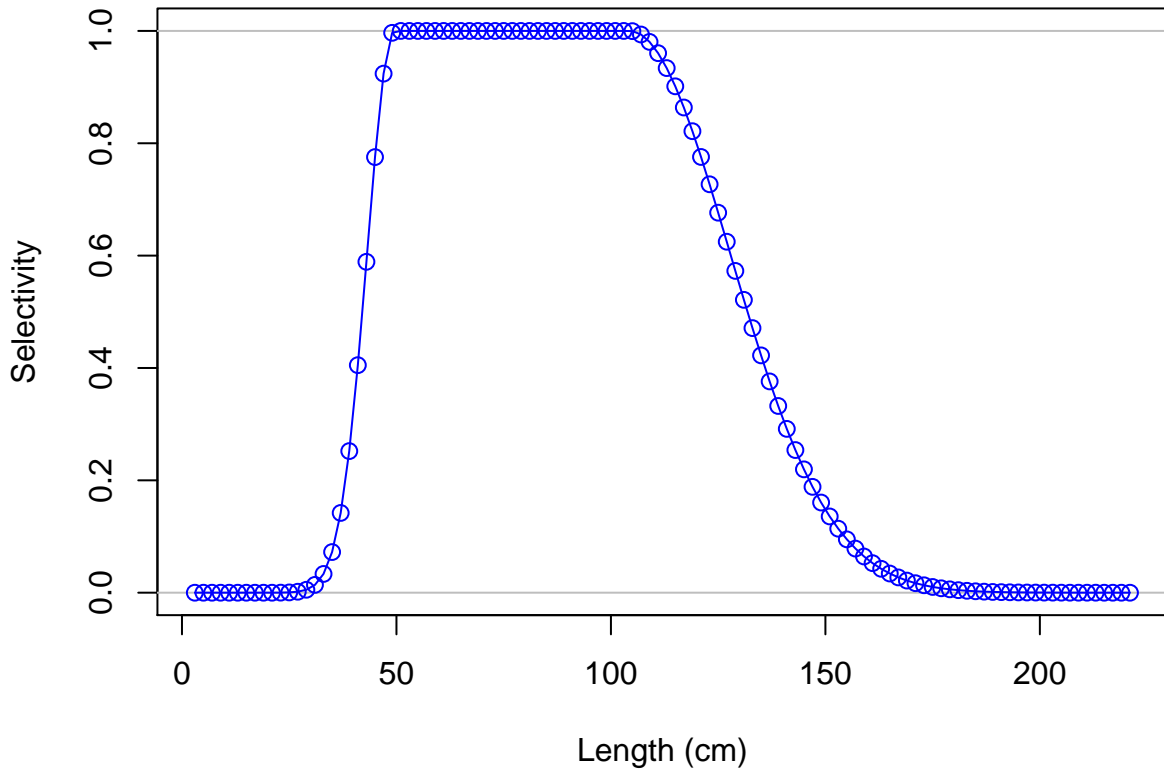
Male ending year selectivity for F2-OBJ_S



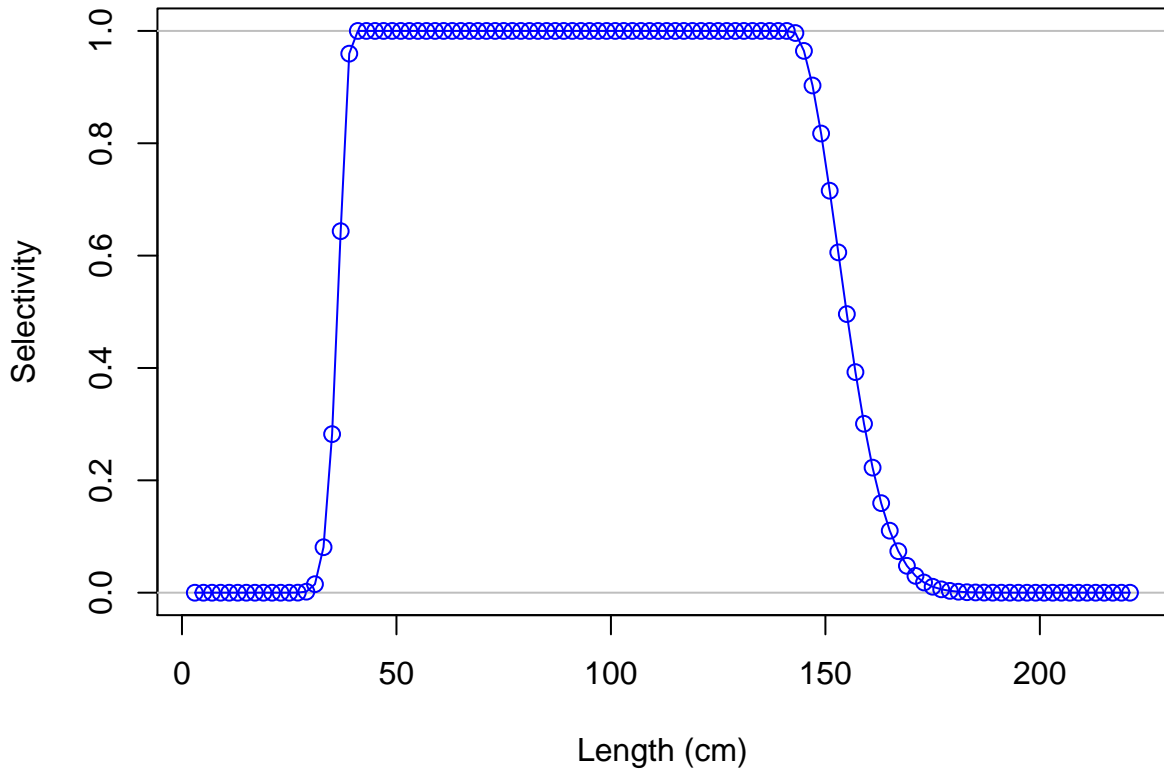
Female ending year selectivity for F3-OBJ_C



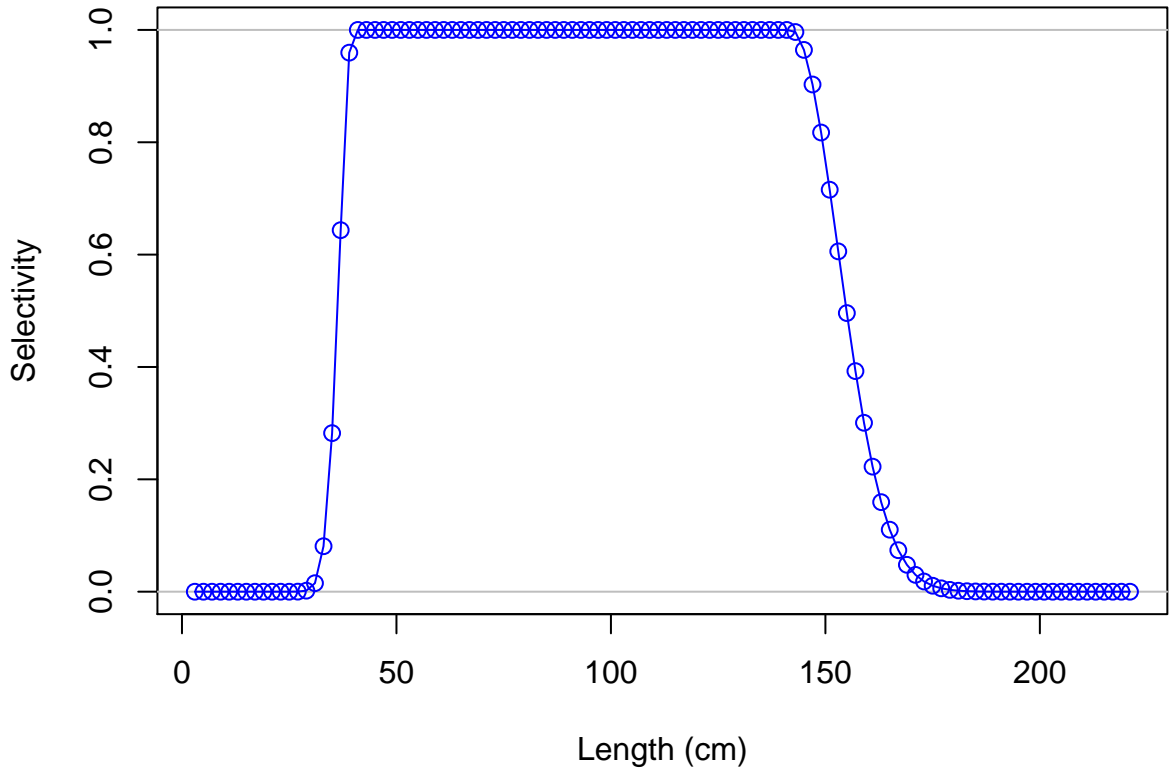
Male ending year selectivity for F3-OBJ_C



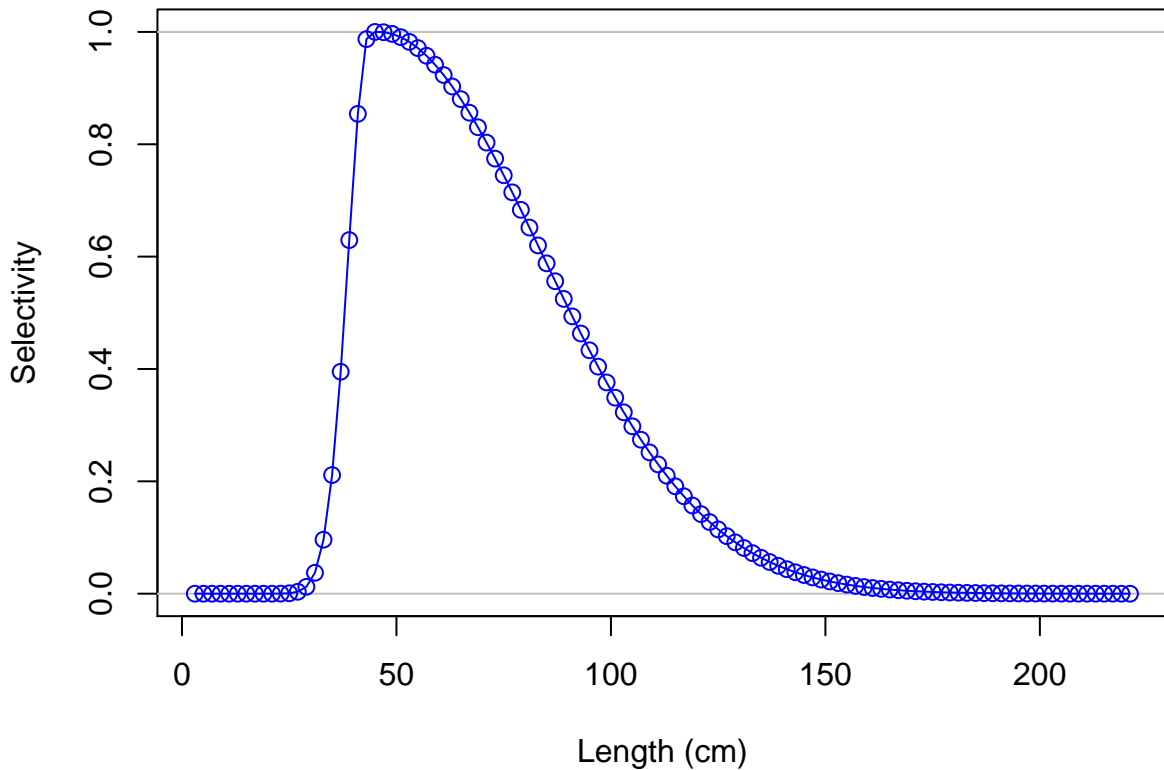
Female ending year selectivity for F4-OBJ_I



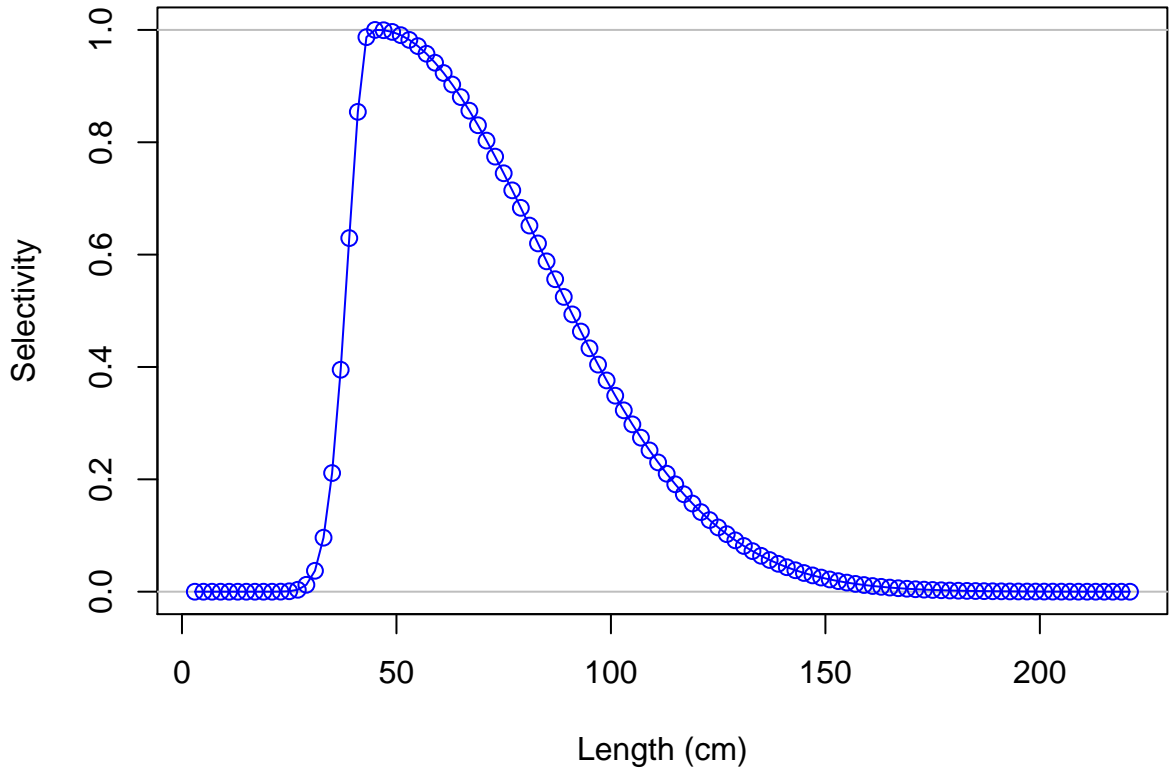
Male ending year selectivity for F4-OBJ_I



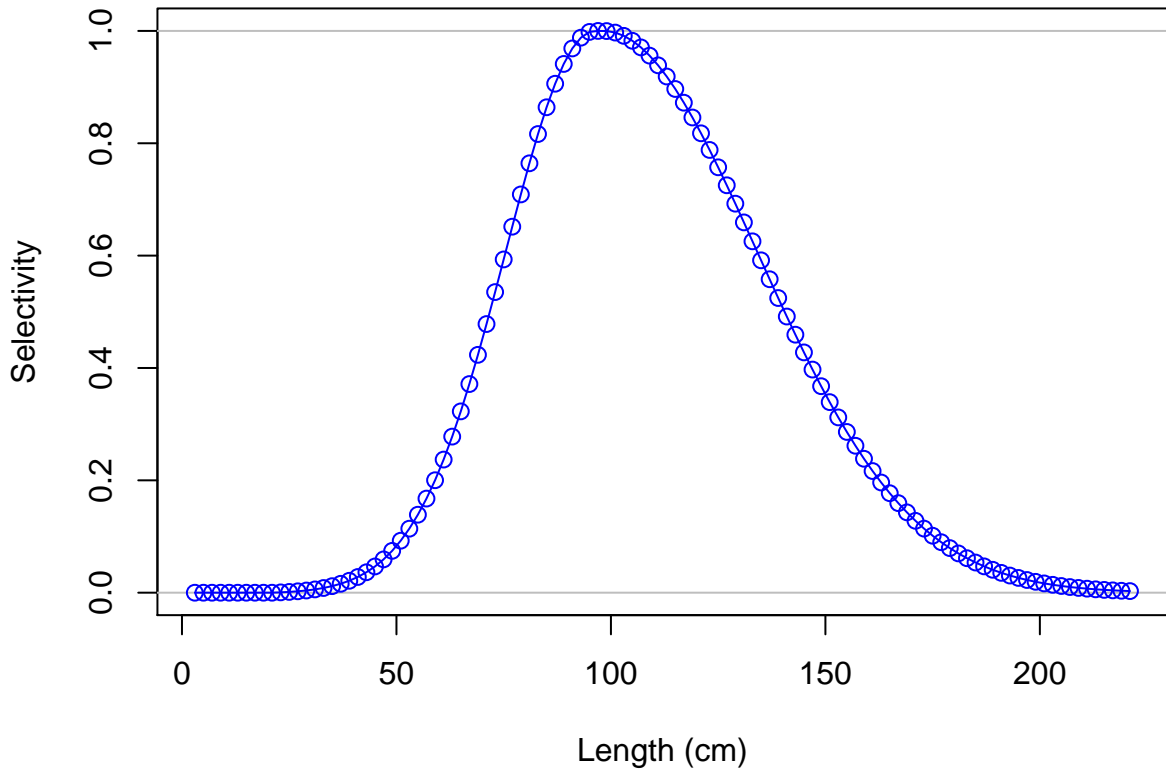
Female ending year selectivity for F5-OBJ_N



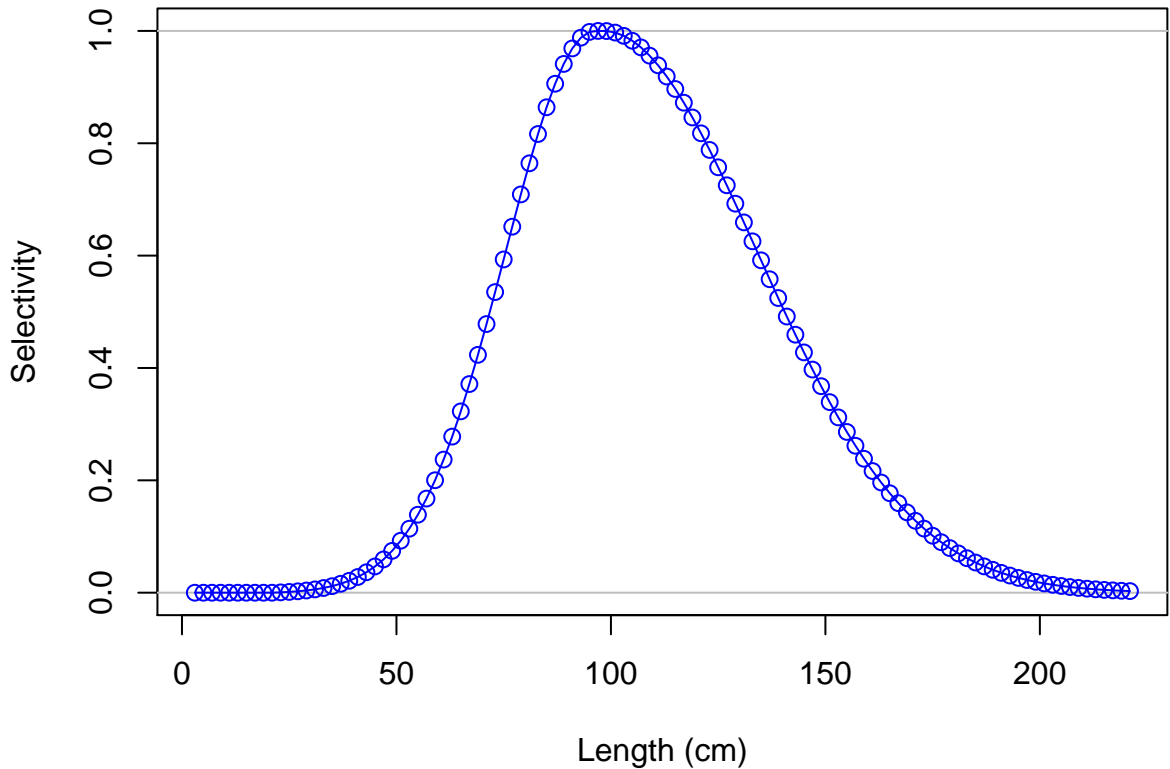
Male ending year selectivity for F5-OBJ_N



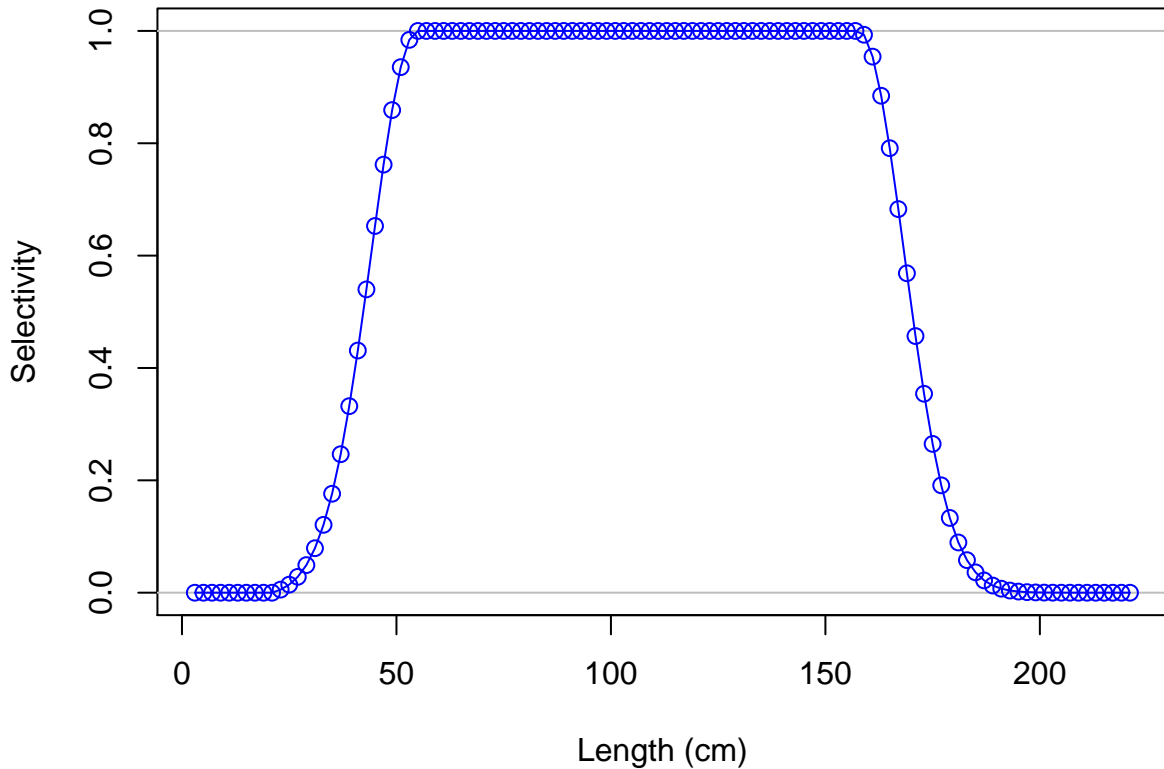
Female ending year selectivity for F6-NOA-DEL_early



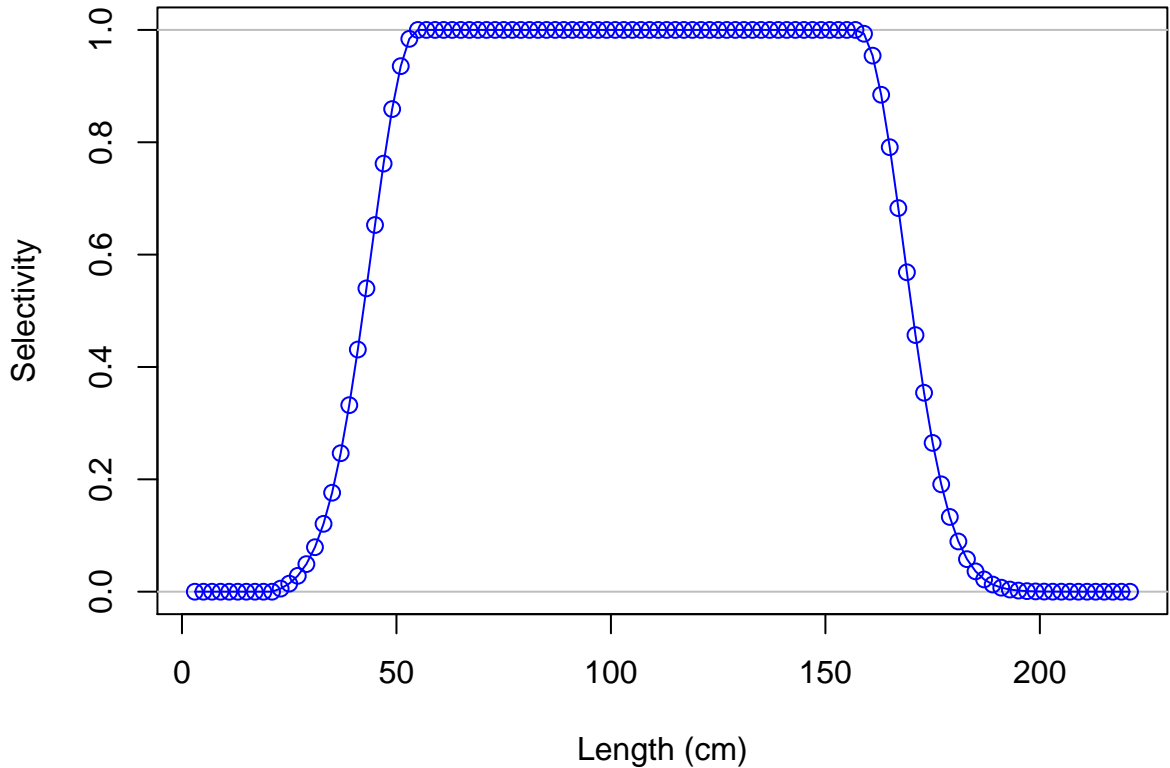
Male ending year selectivity for F6-NOA-DEL_early



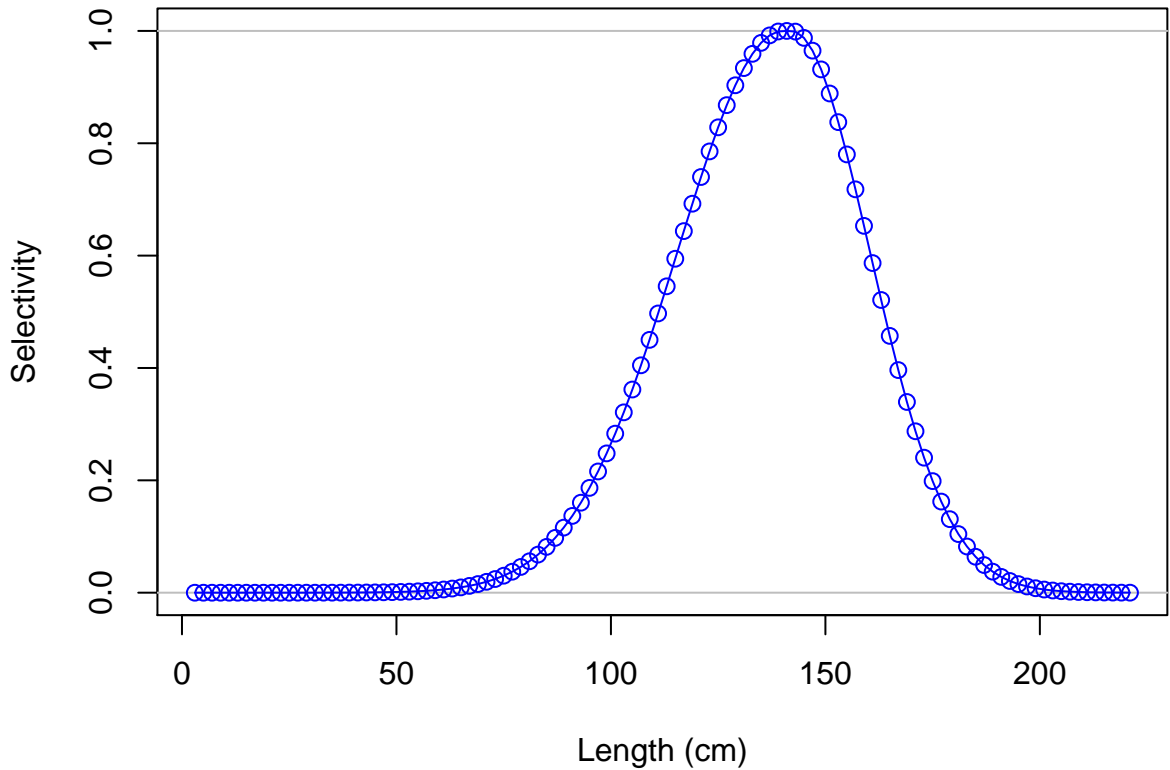
Female ending year selectivity for F7-NOA-DEL_late



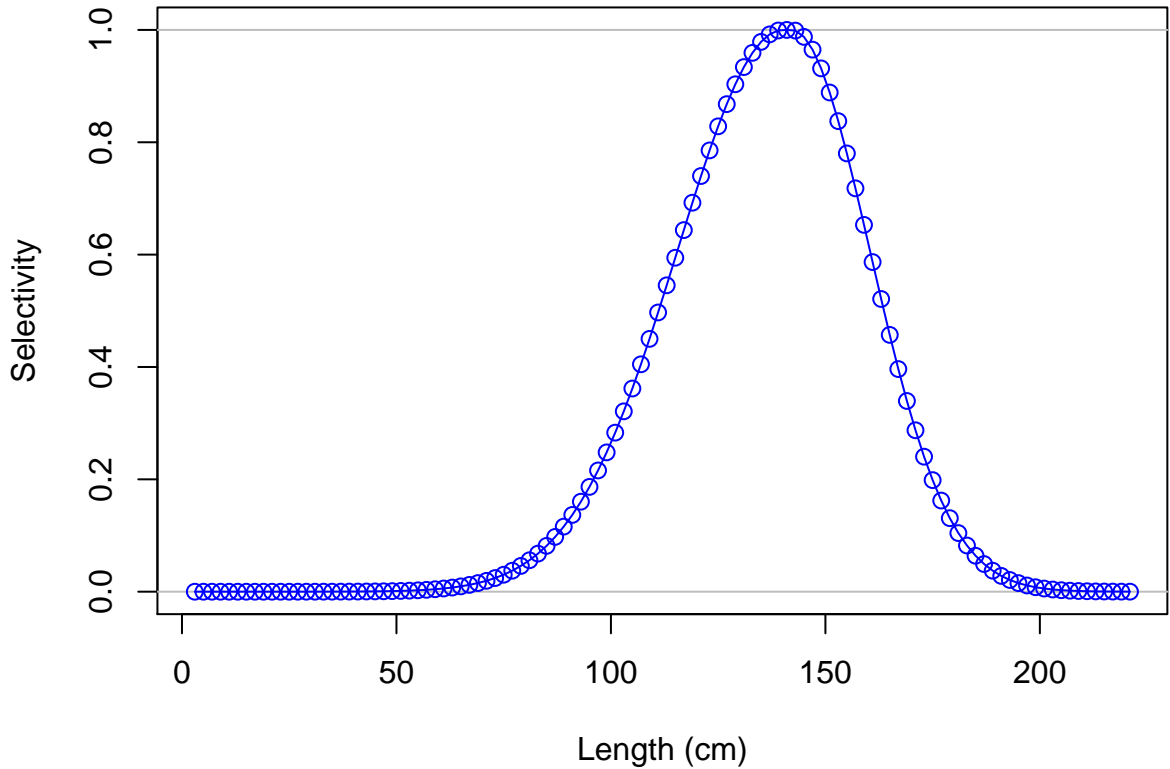
Male ending year selectivity for F7-NOA-DEL_late



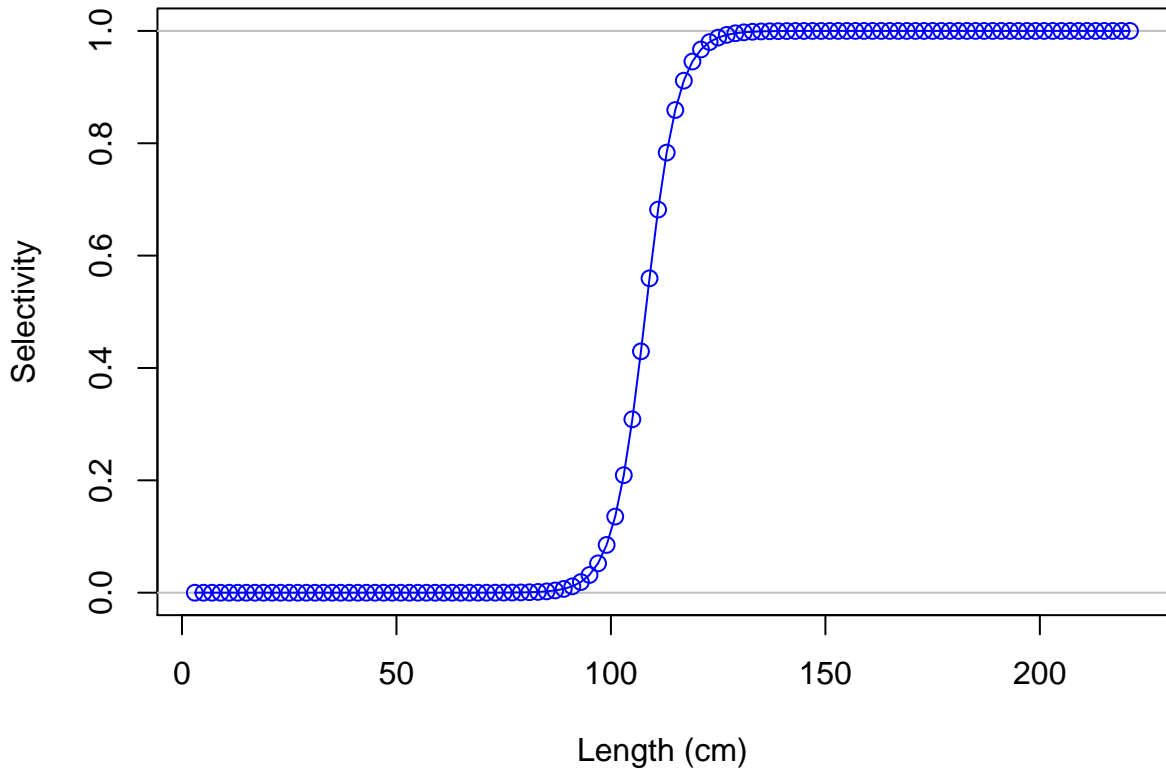
Female ending year selectivity for F12-LL_N_num



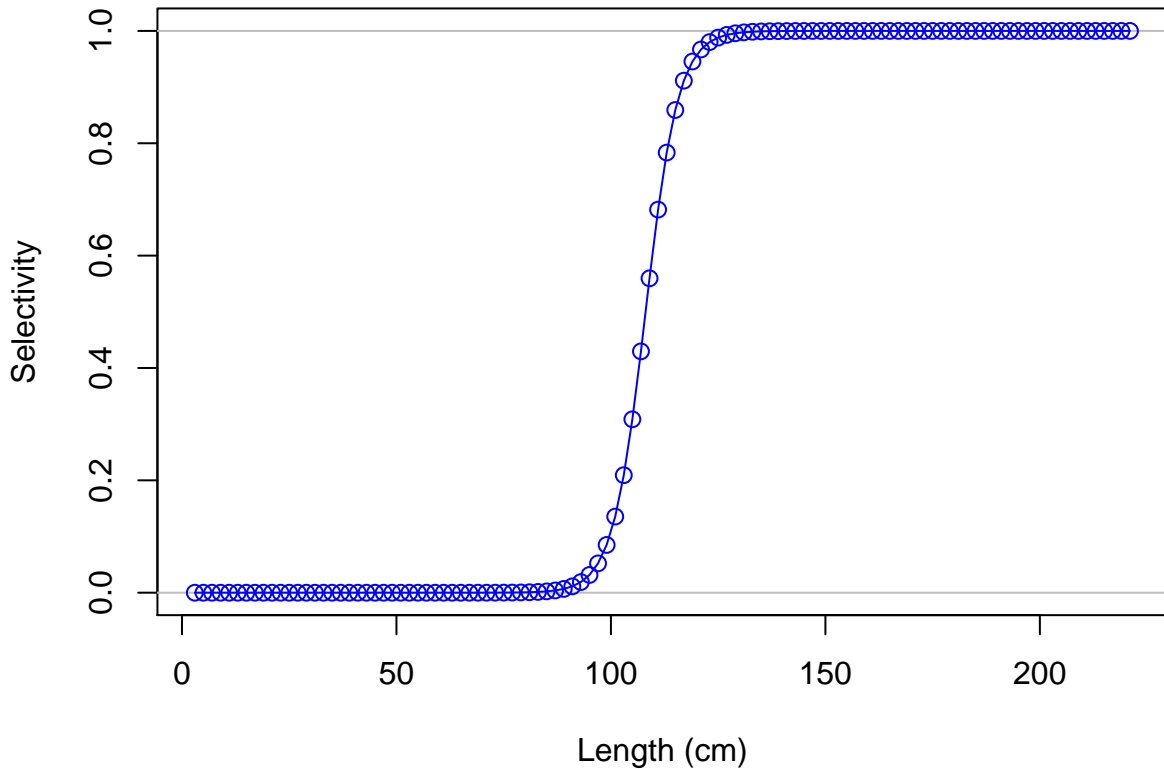
Male ending year selectivity for F12-LL_N_num



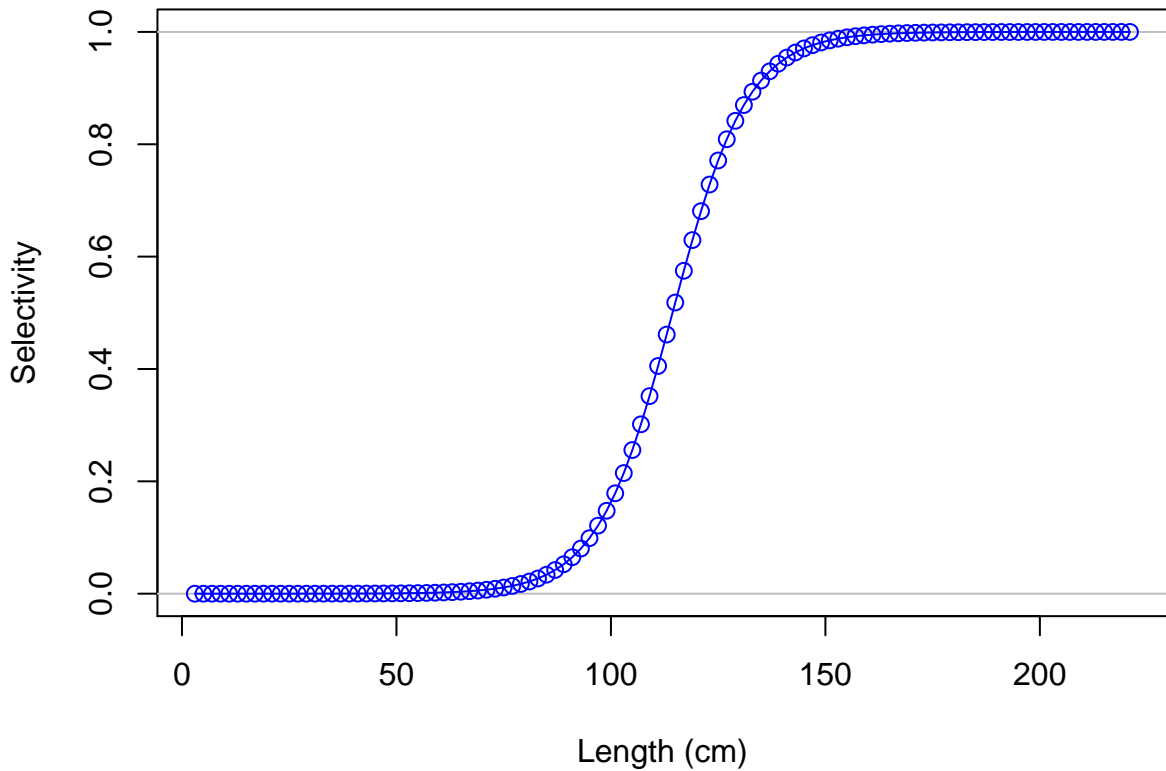
Female ending year selectivity for F13-LL_C_num



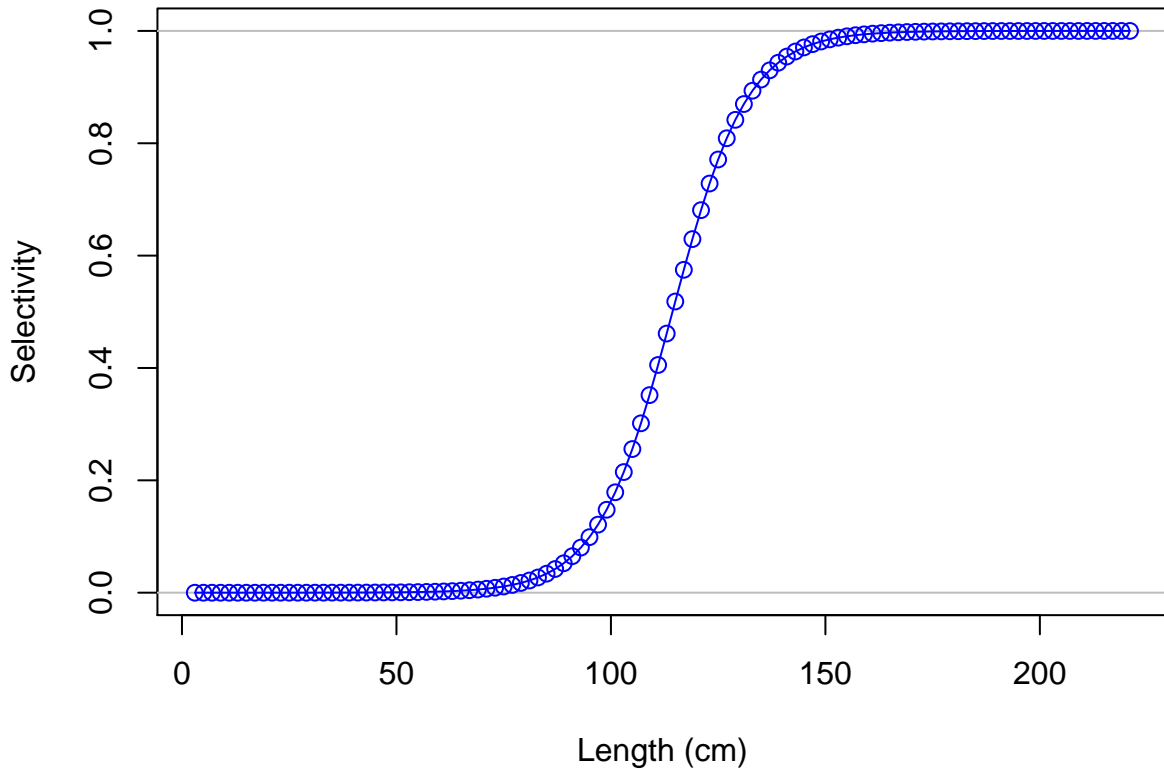
Male ending year selectivity for F13-LL_C_num



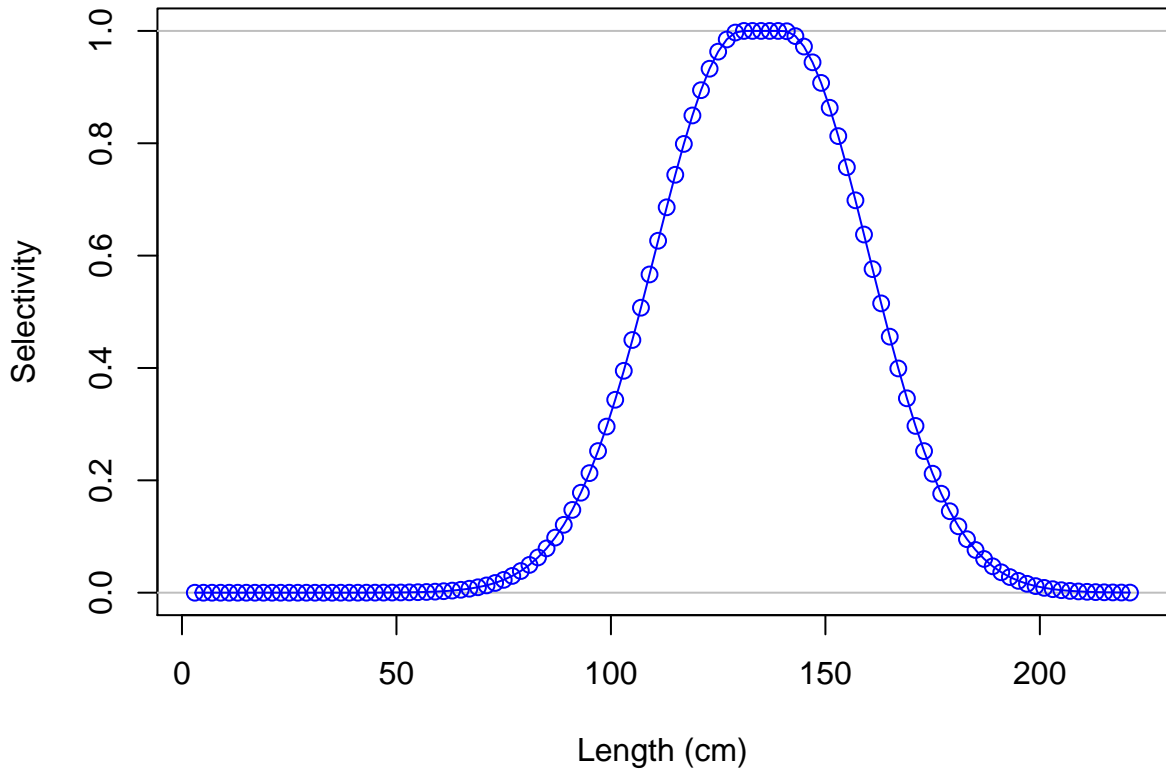
Female ending year selectivity for F14-LL_S_num



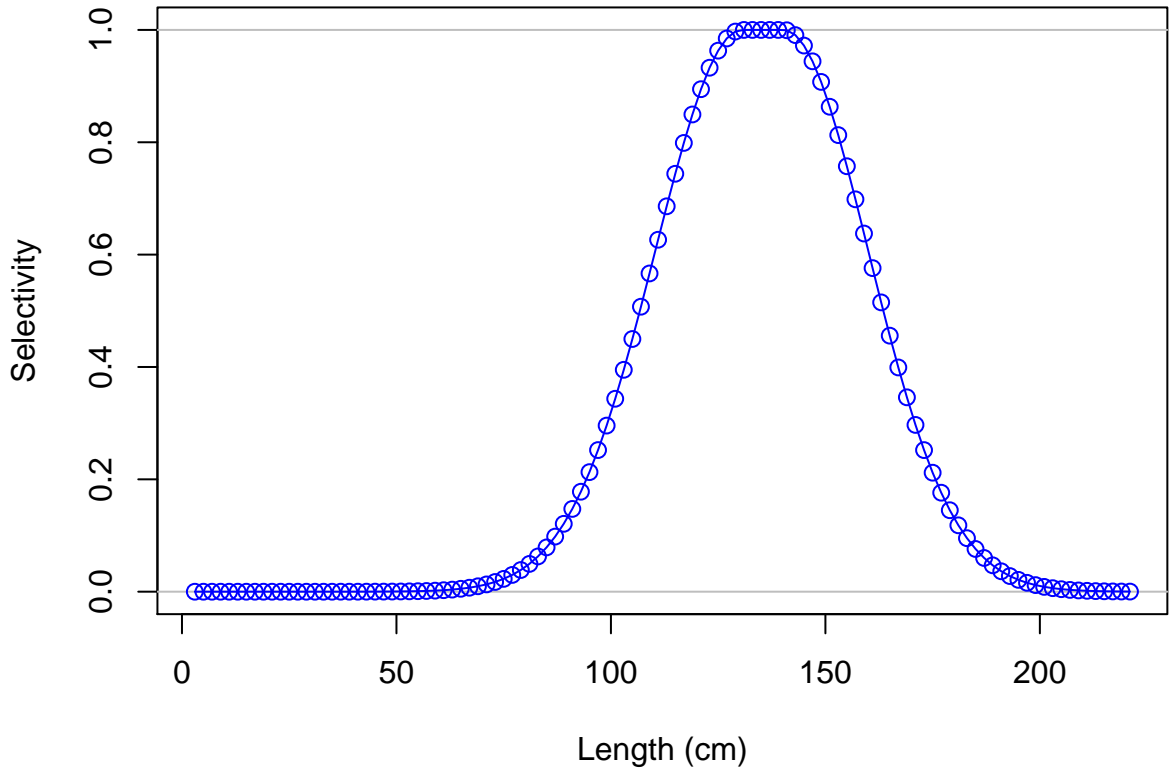
Male ending year selectivity for F14-LL_S_num



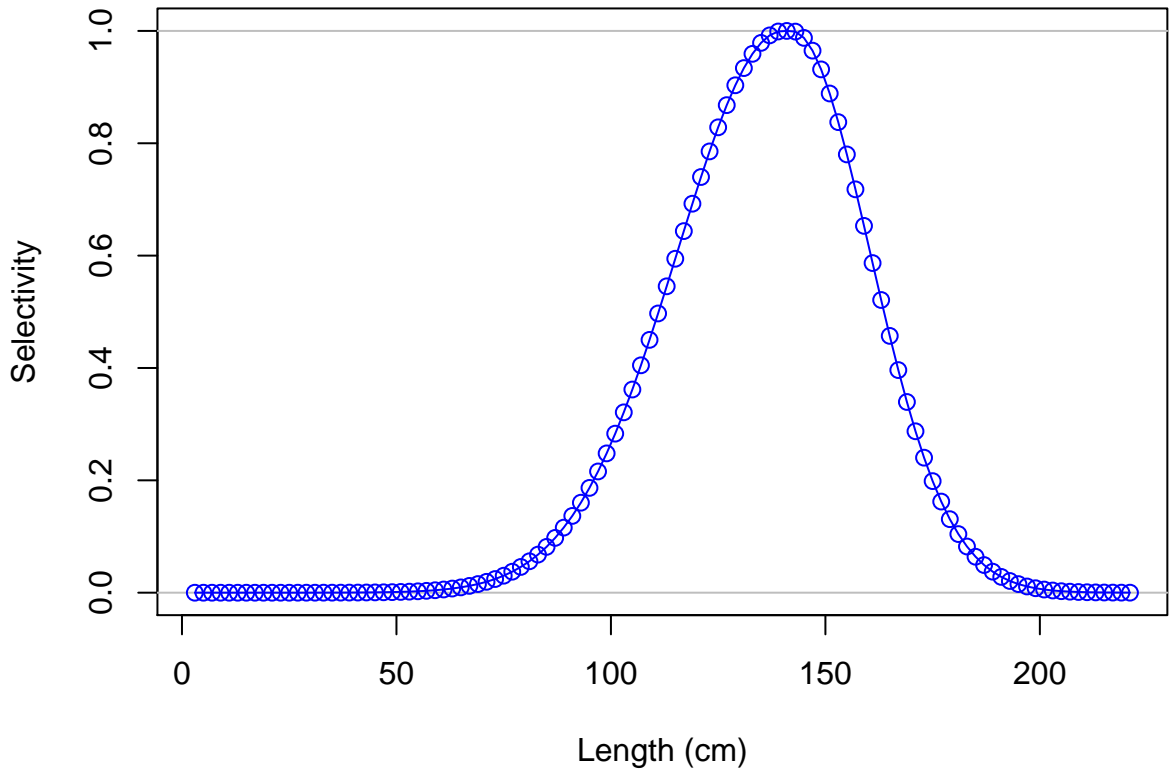
Female ending year selectivity for F15-LL_I_num



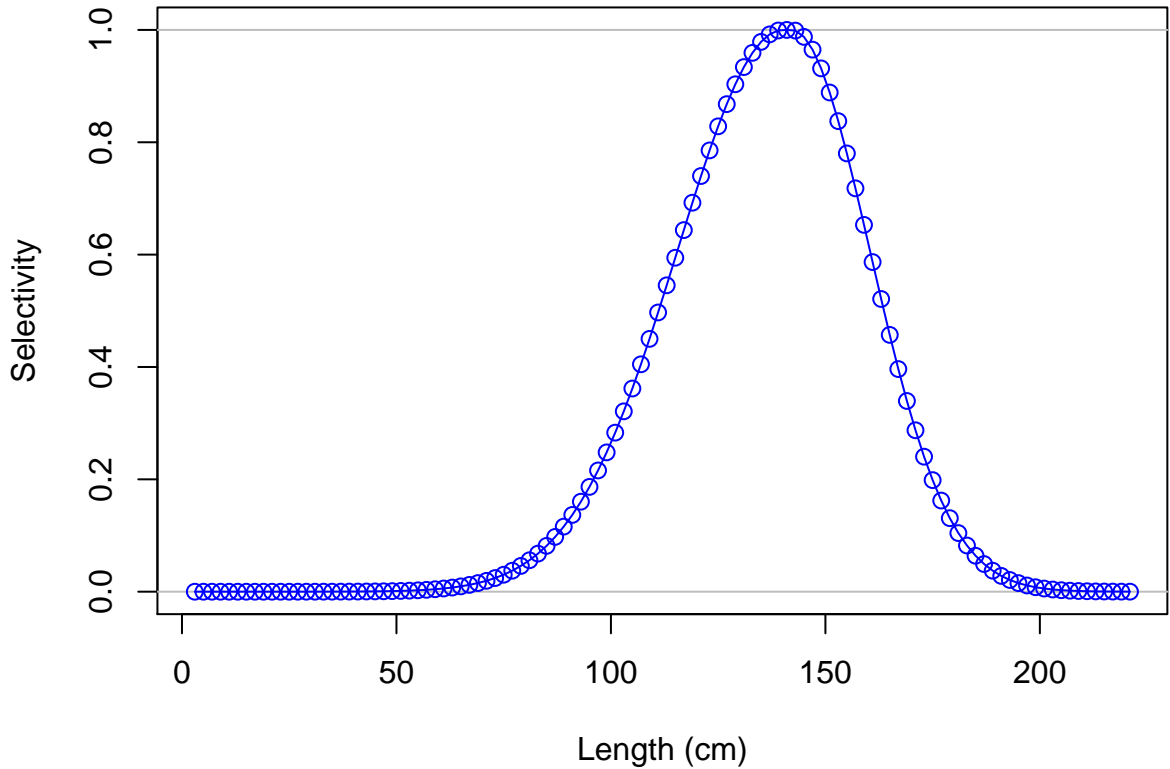
Male ending year selectivity for F15-LL_I_num



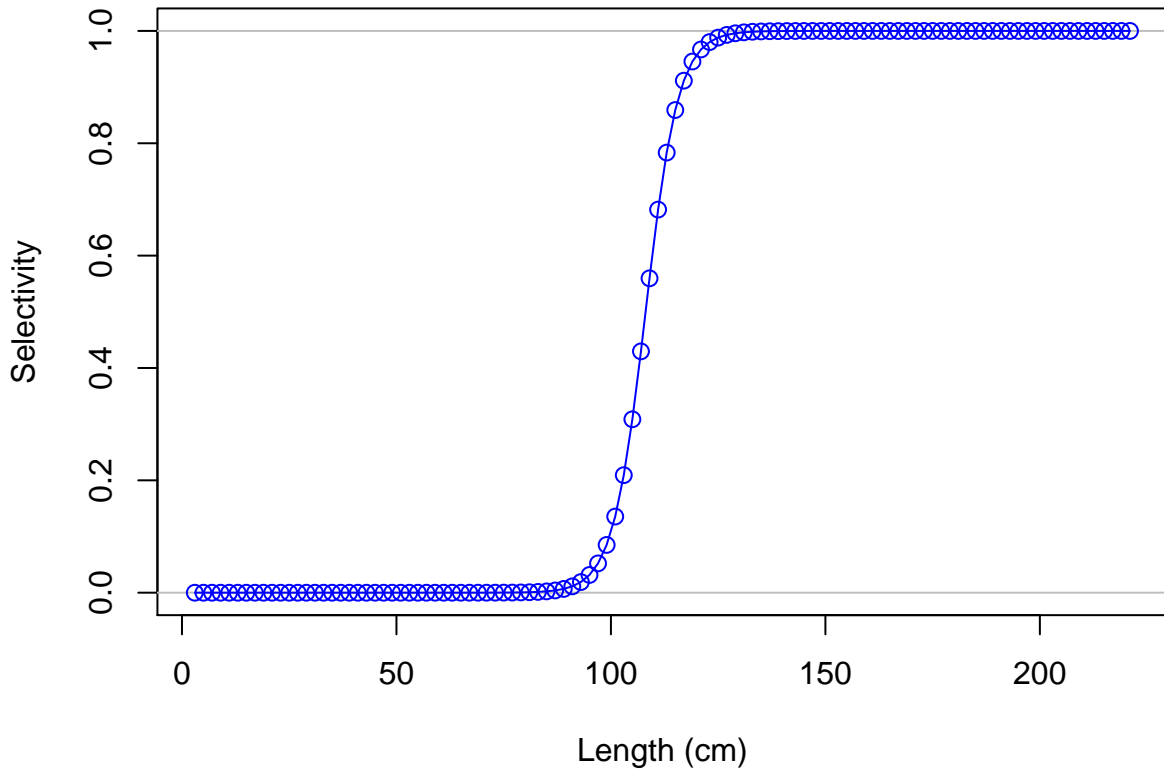
Female ending year selectivity for F16-LL_N_w



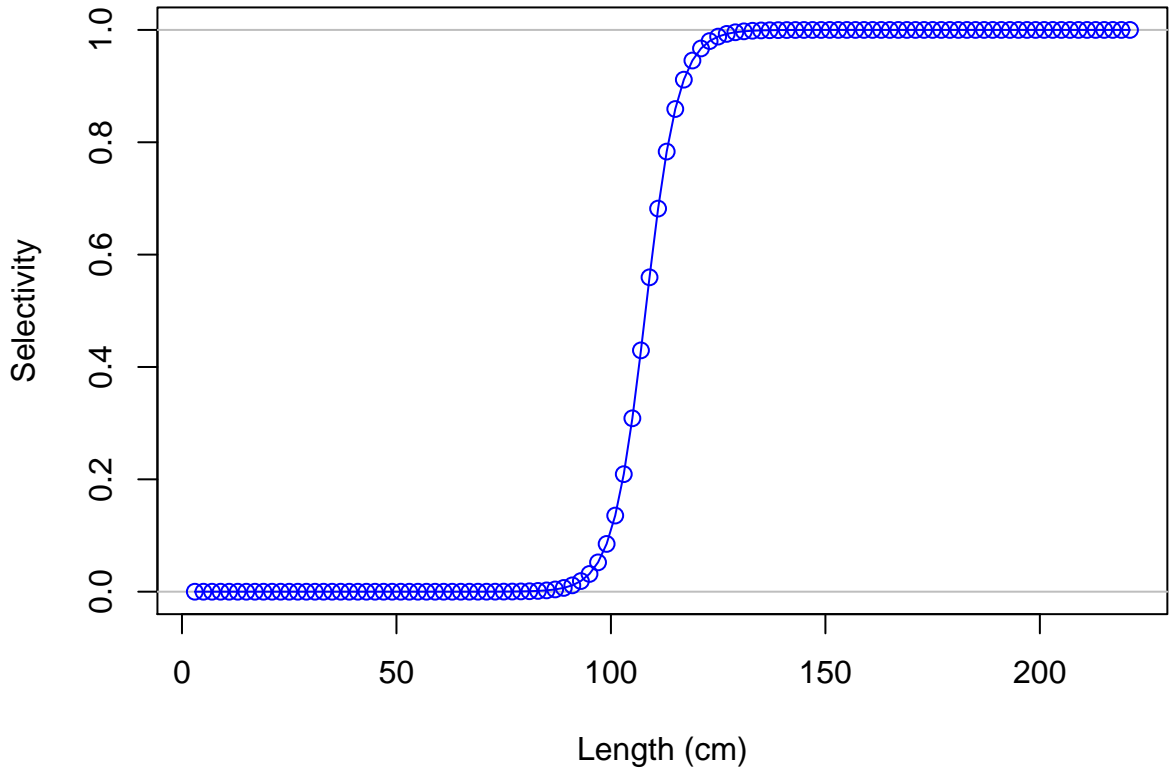
Male ending year selectivity for F16-LL_N_w



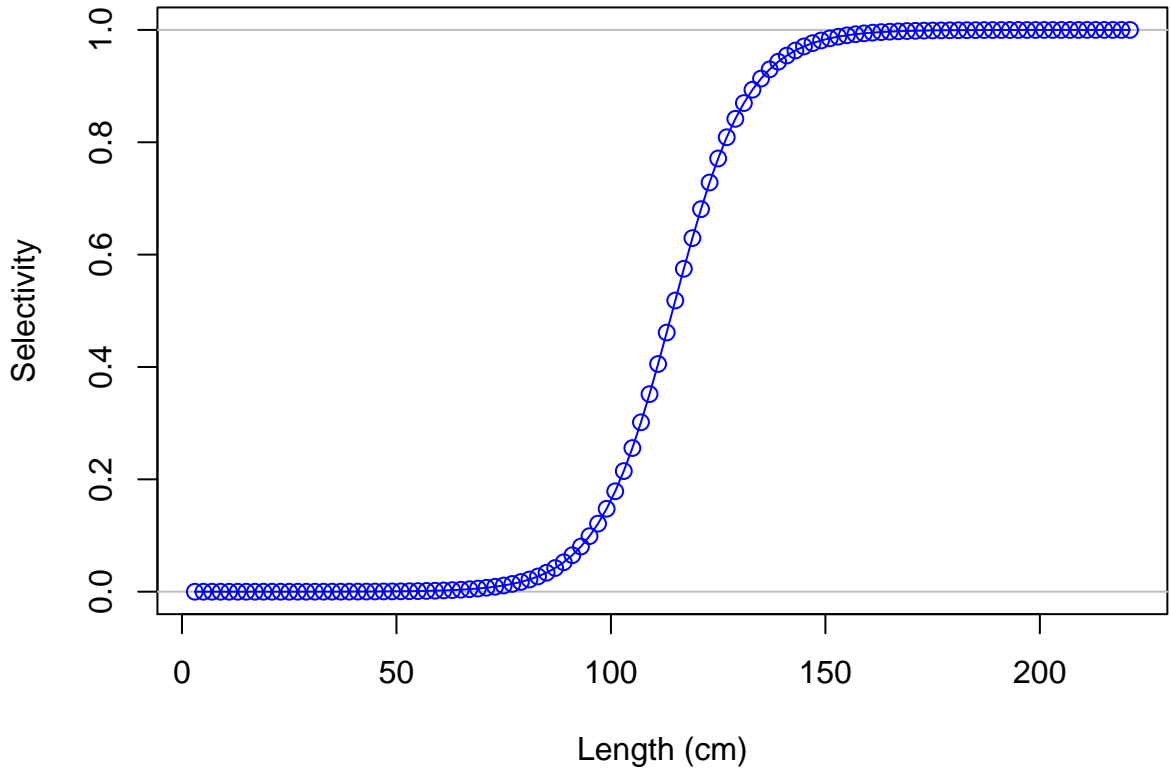
Female ending year selectivity for F17-LL_C_w



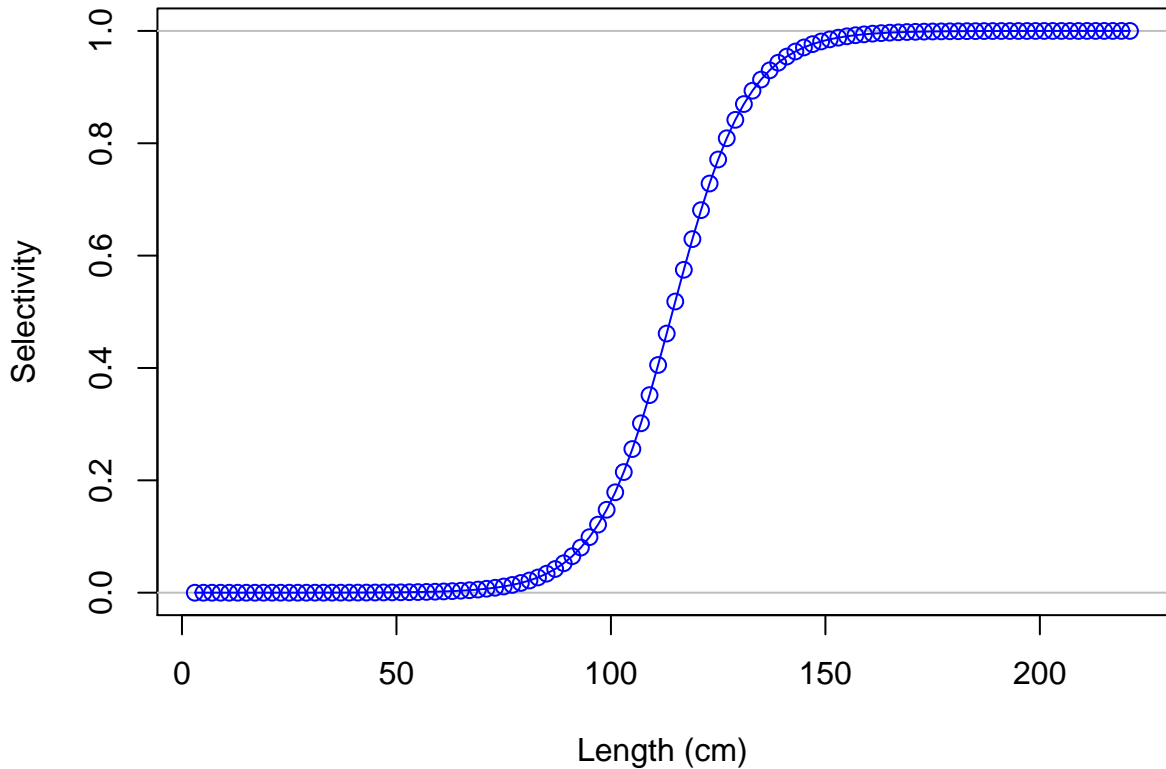
Male ending year selectivity for F17-LL_C_w



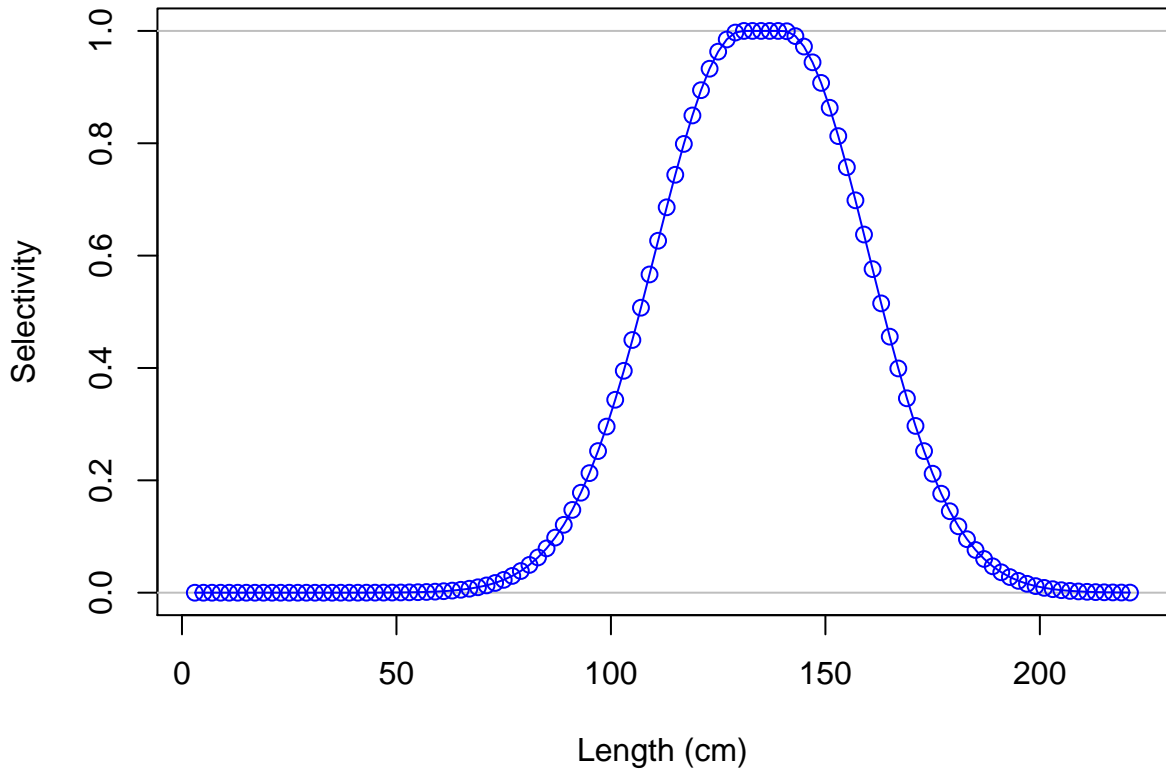
Female ending year selectivity for F18-LL_S_w



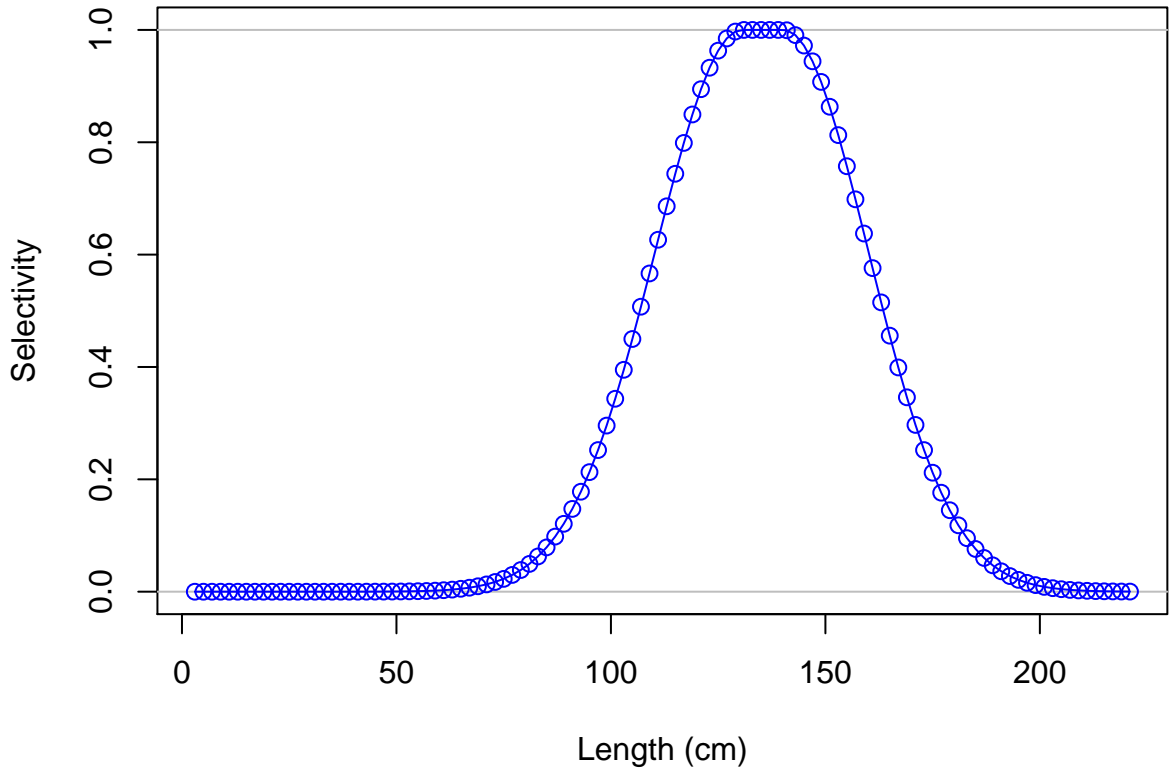
Male ending year selectivity for F18-LL_S_w



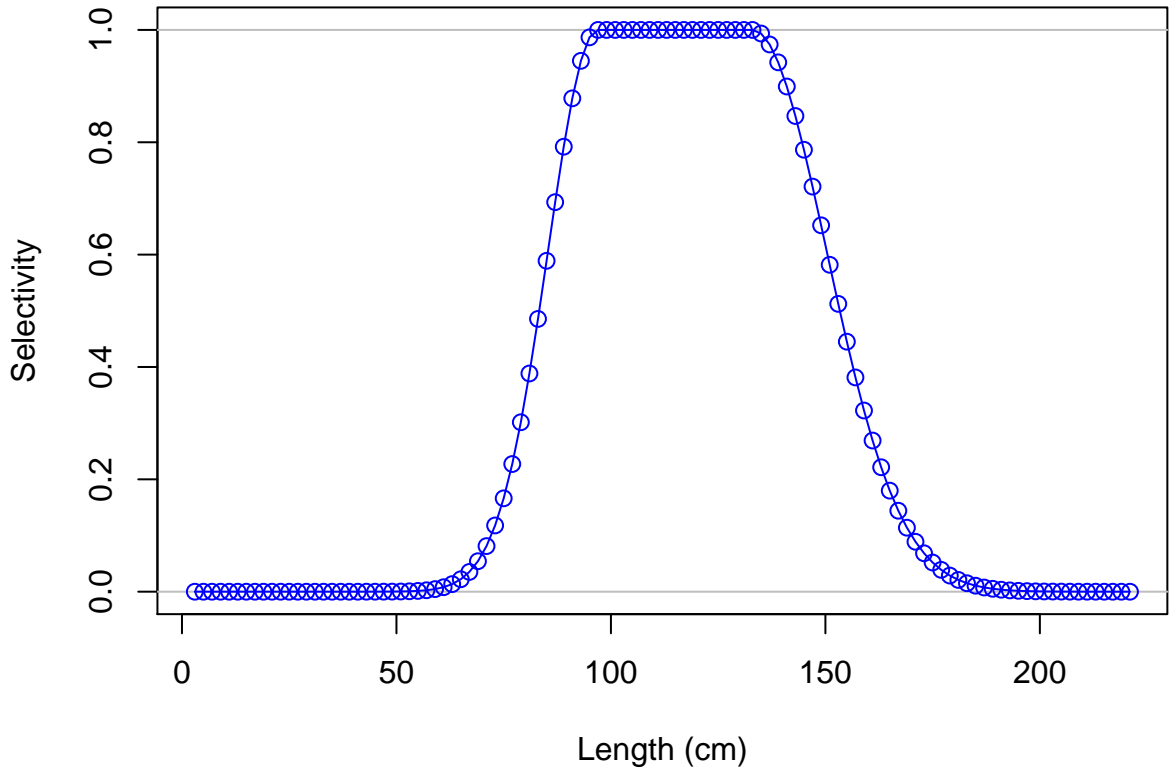
Female ending year selectivity for F19-LL_I_w



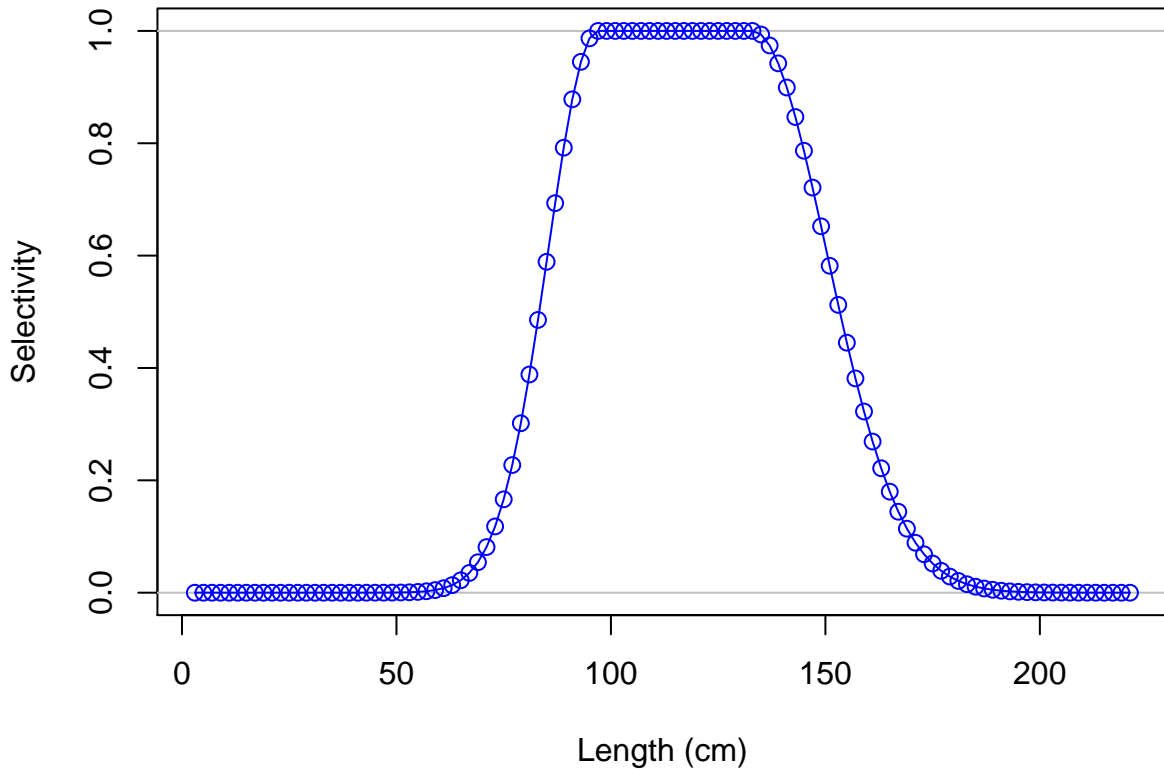
Male ending year selectivity for F19-LL_I_w



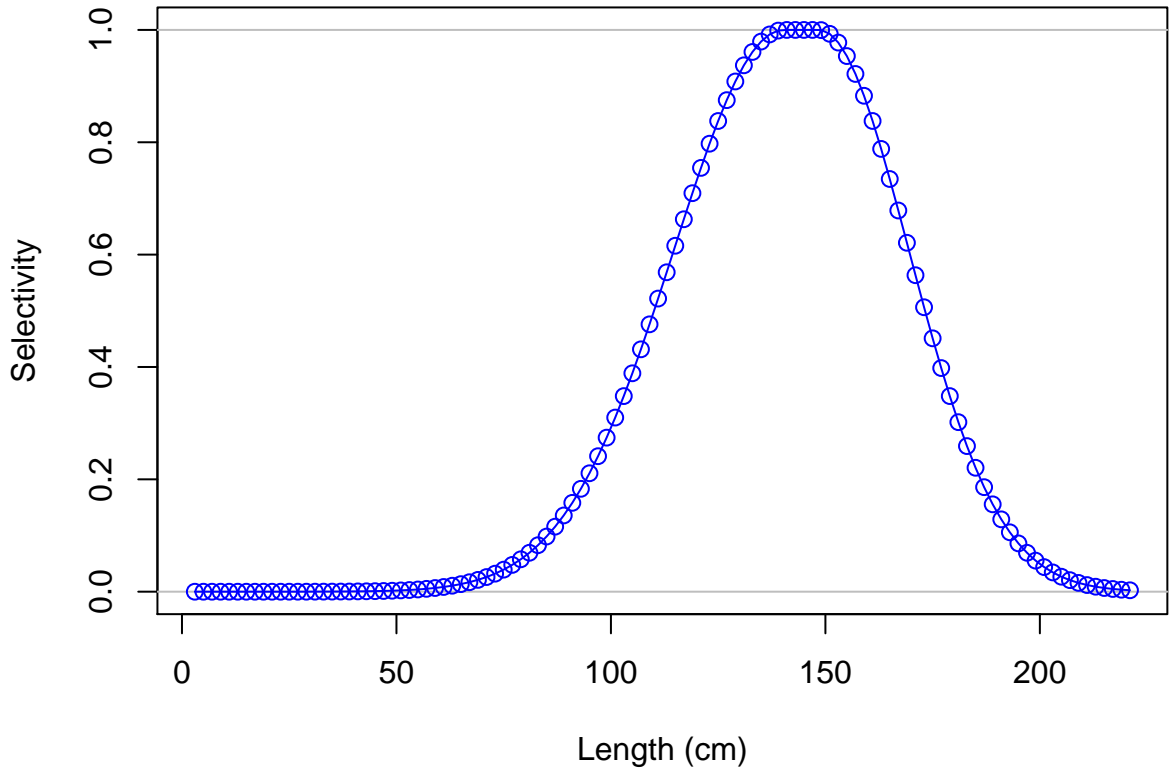
Female ending year selectivity for S1-LLt_N_len



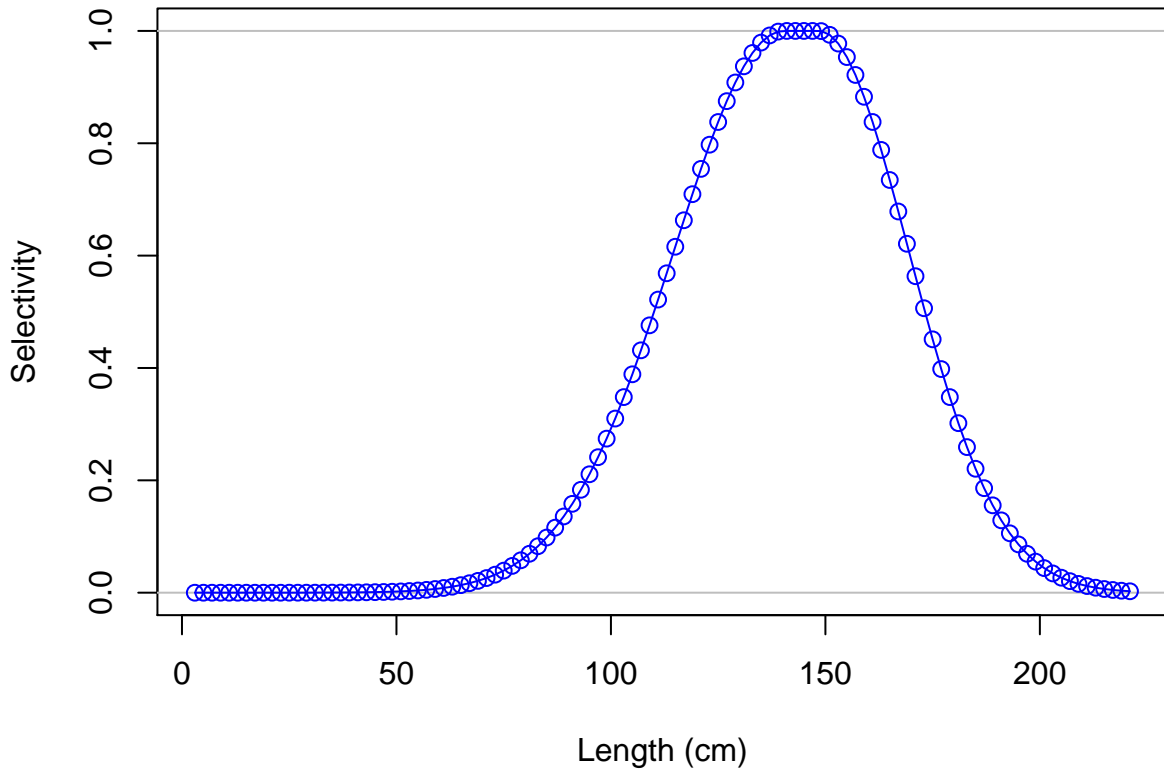
Male ending year selectivity for S1-LLt_N_len



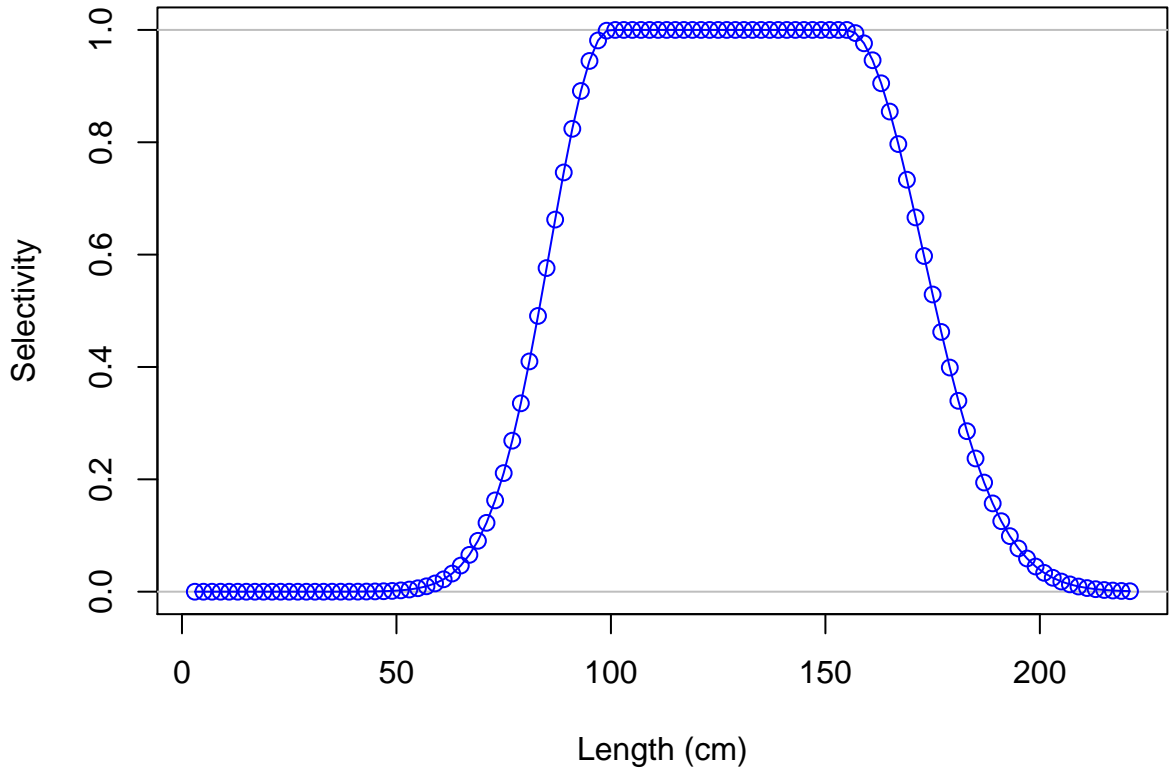
Female ending year selectivity for S2-LLt_C_len



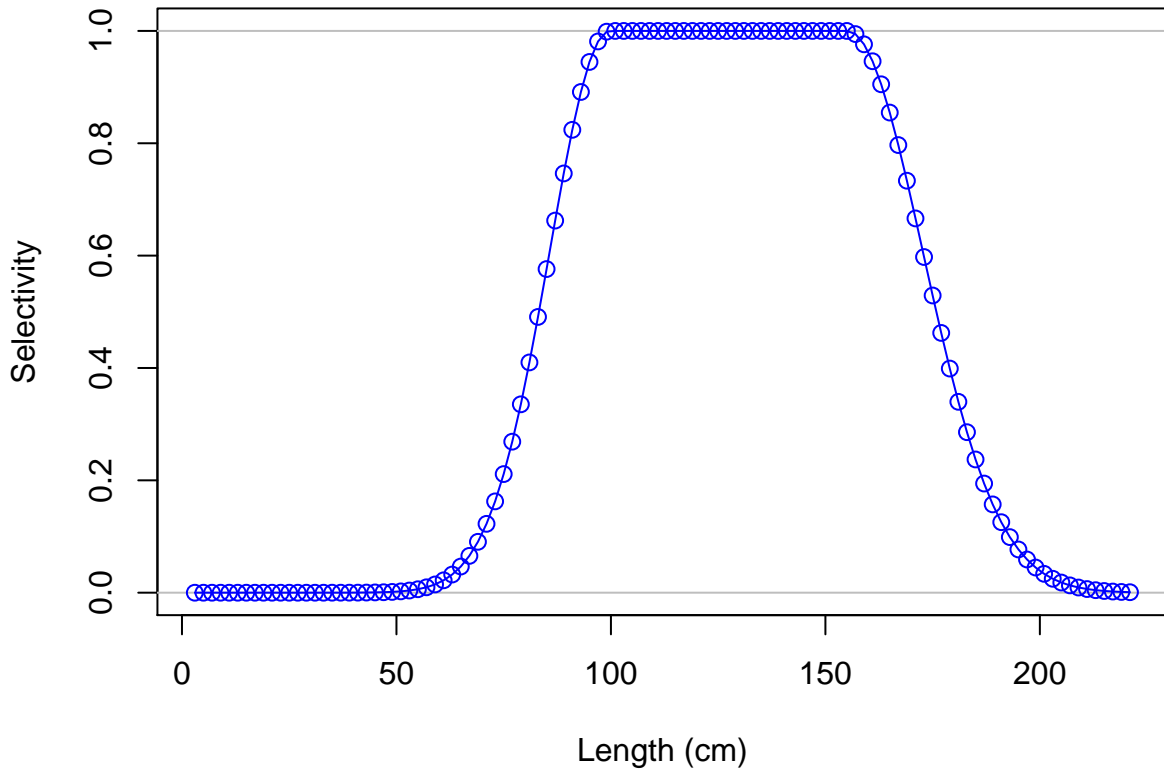
Male ending year selectivity for S2-LLt_C_len



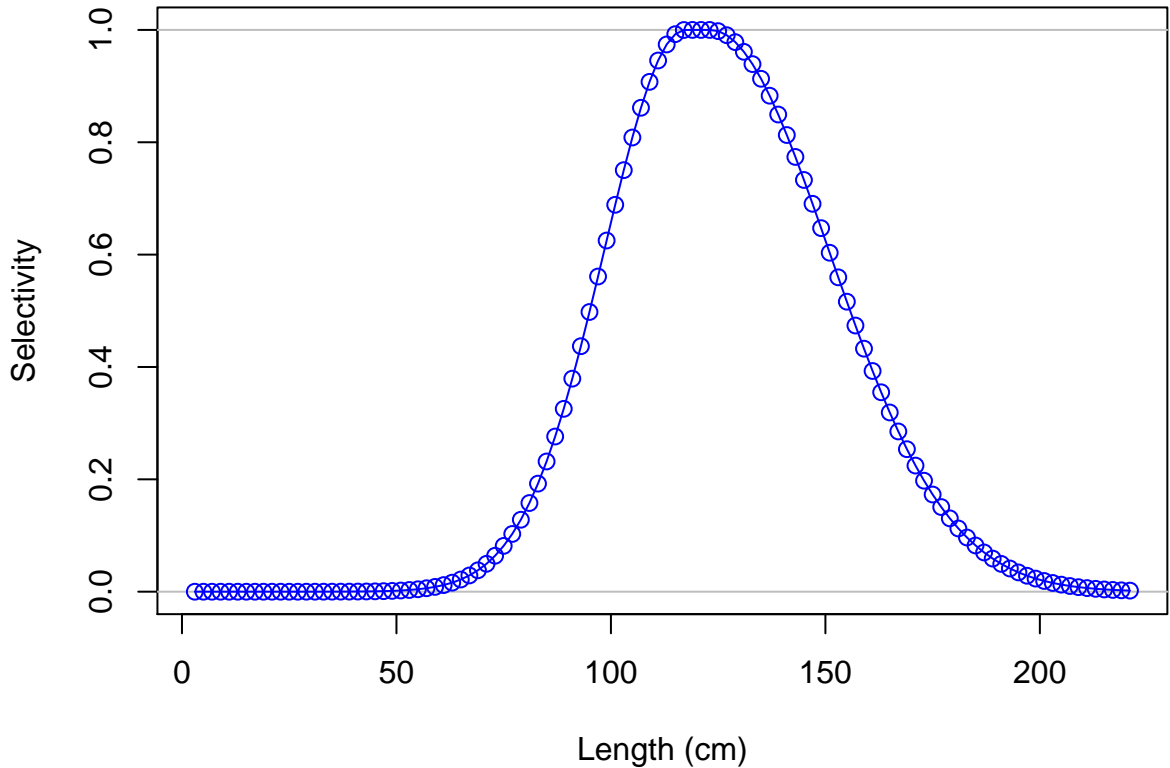
Female ending year selectivity for S3-LLt_S_len



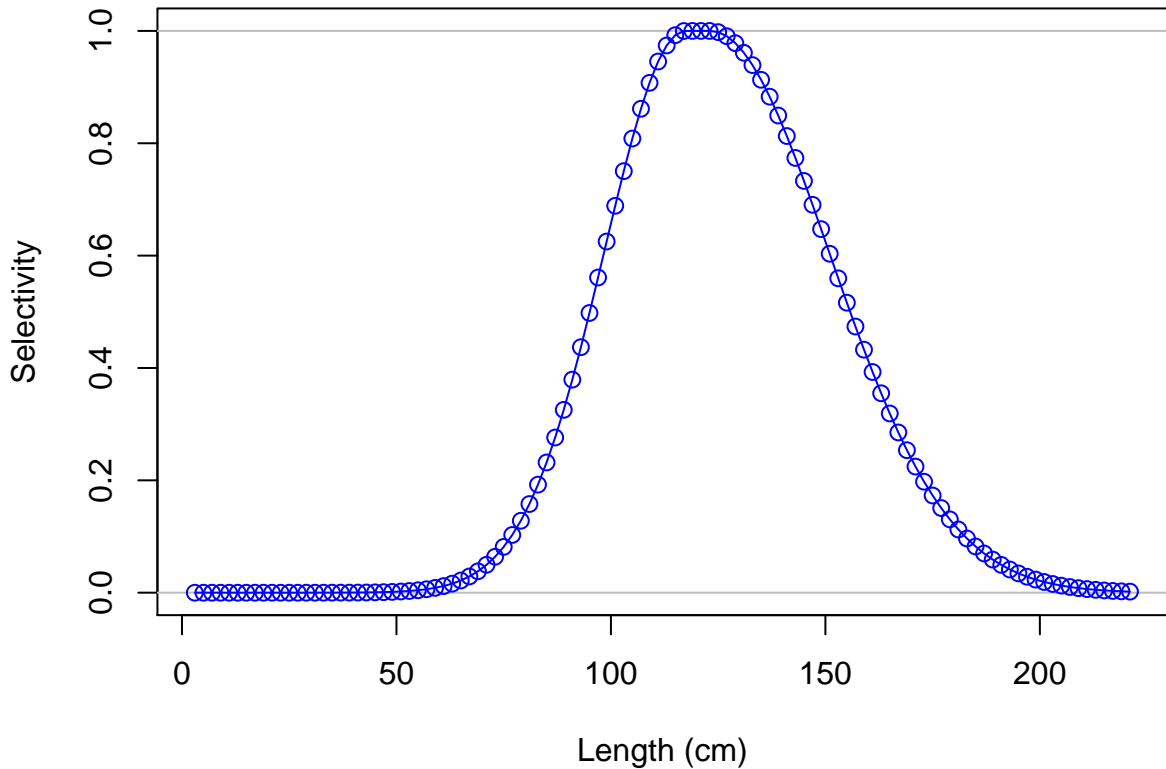
Male ending year selectivity for S3-LLt_S_len



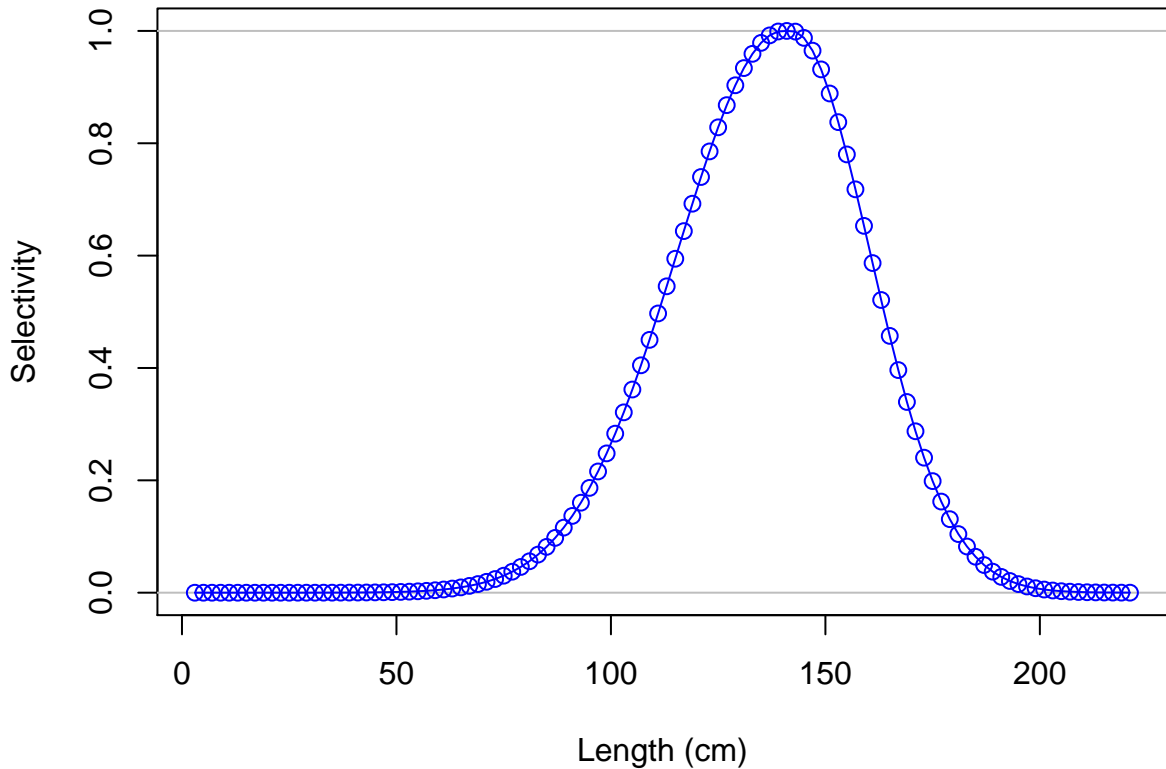
Female ending year selectivity for S4-LLt_I_len



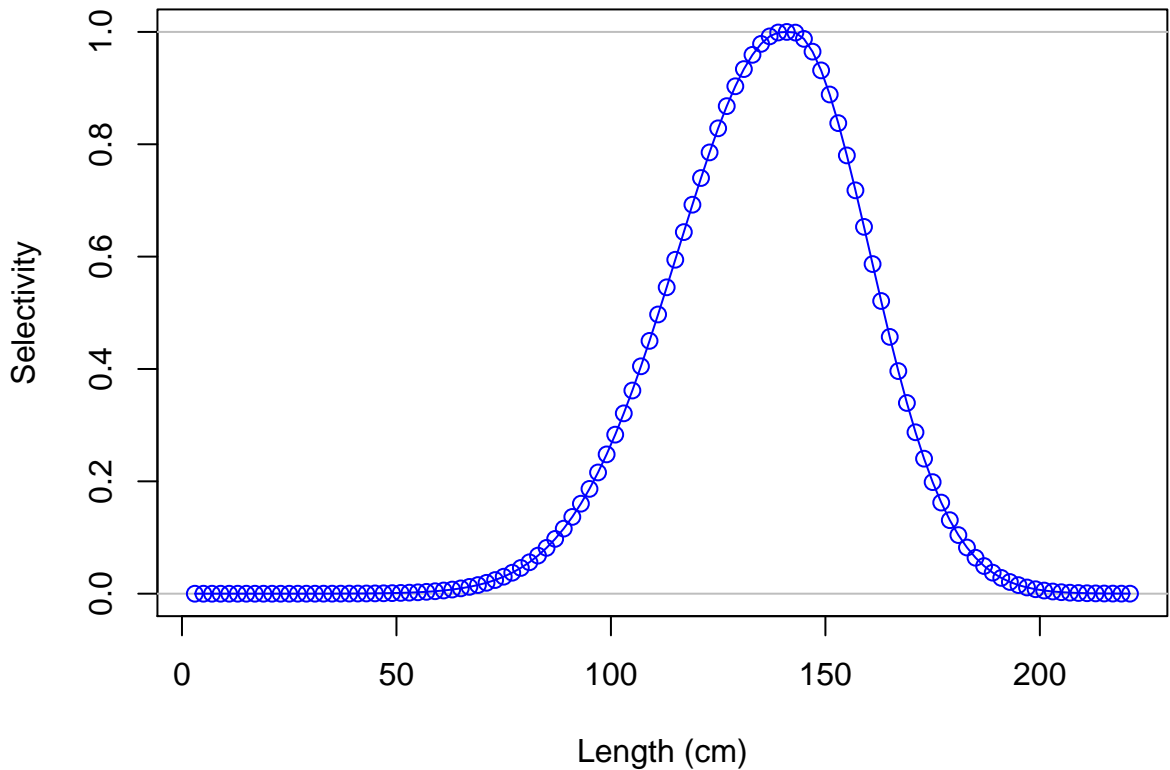
Male ending year selectivity for S4-LLt_I_len



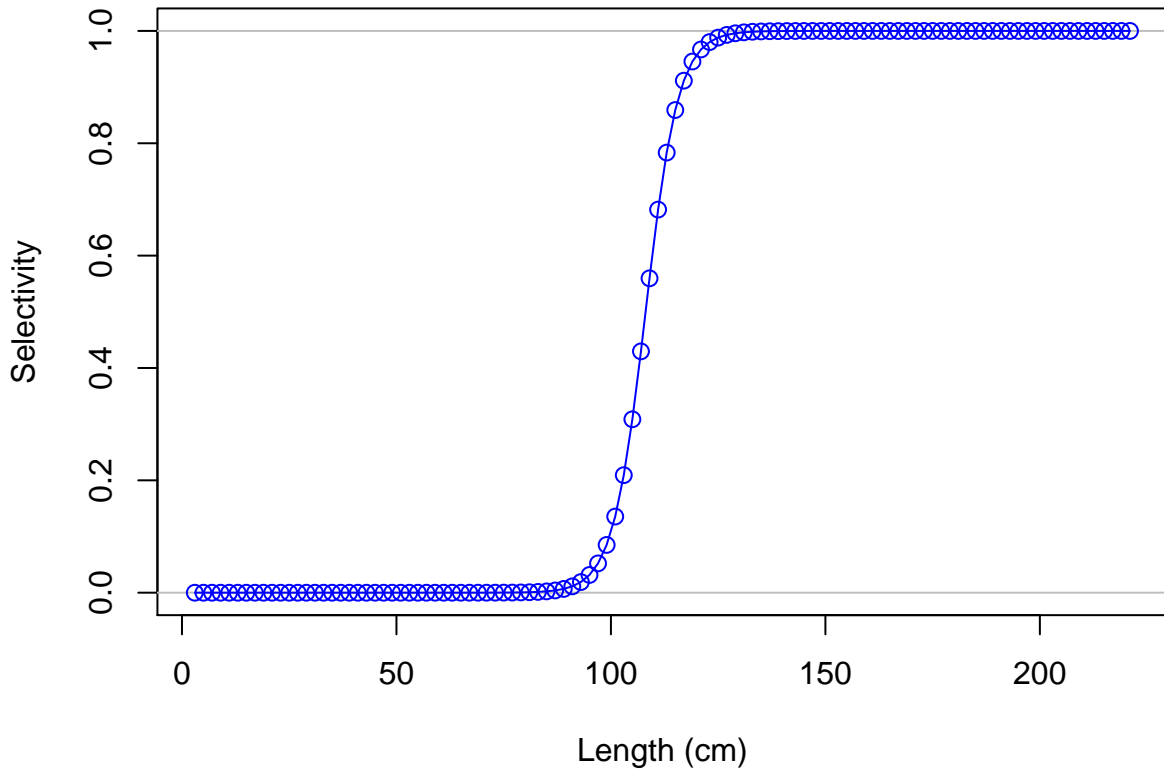
Female ending year selectivity for S5-LLc_N_w



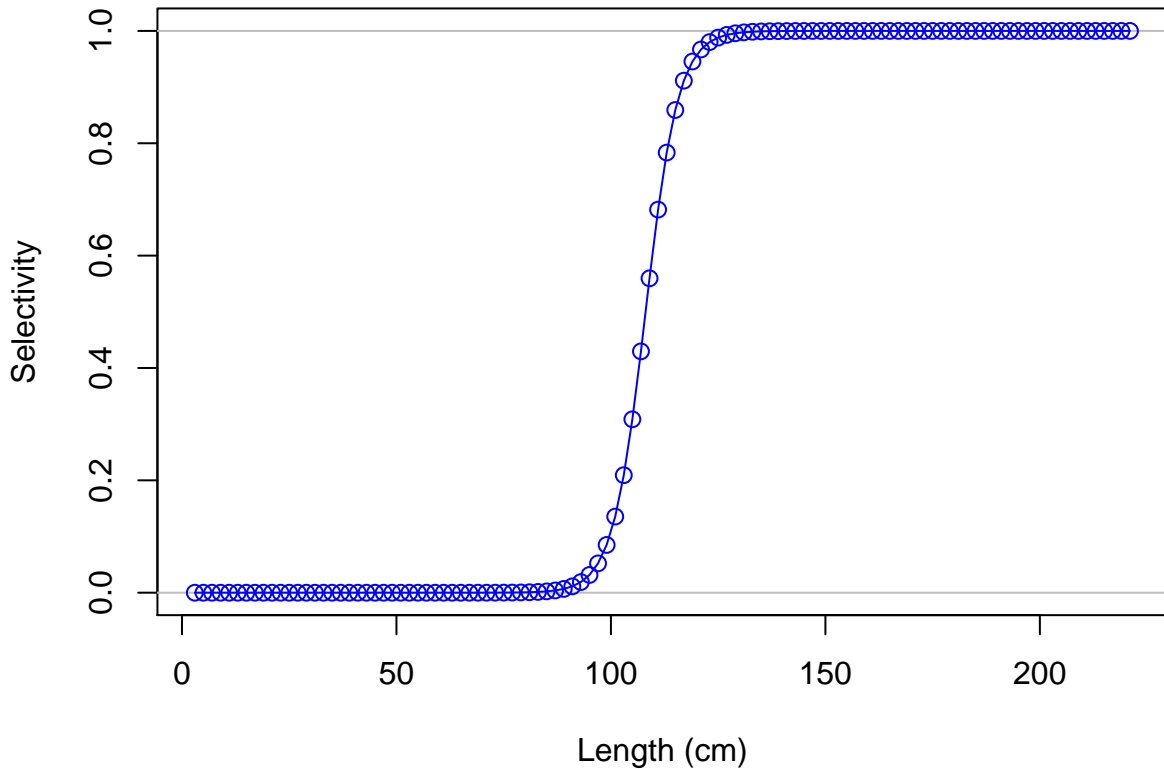
Male ending year selectivity for S5-LLc_N_w



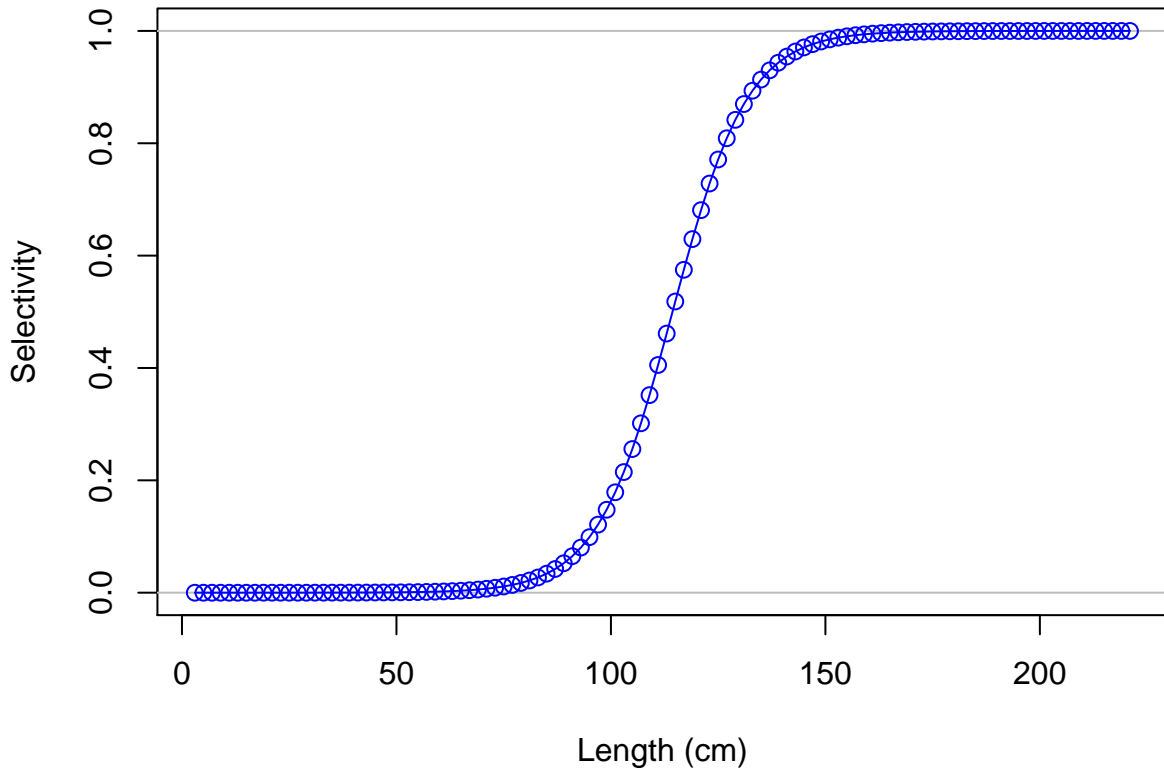
Female ending year selectivity for S6-LLc_C_w



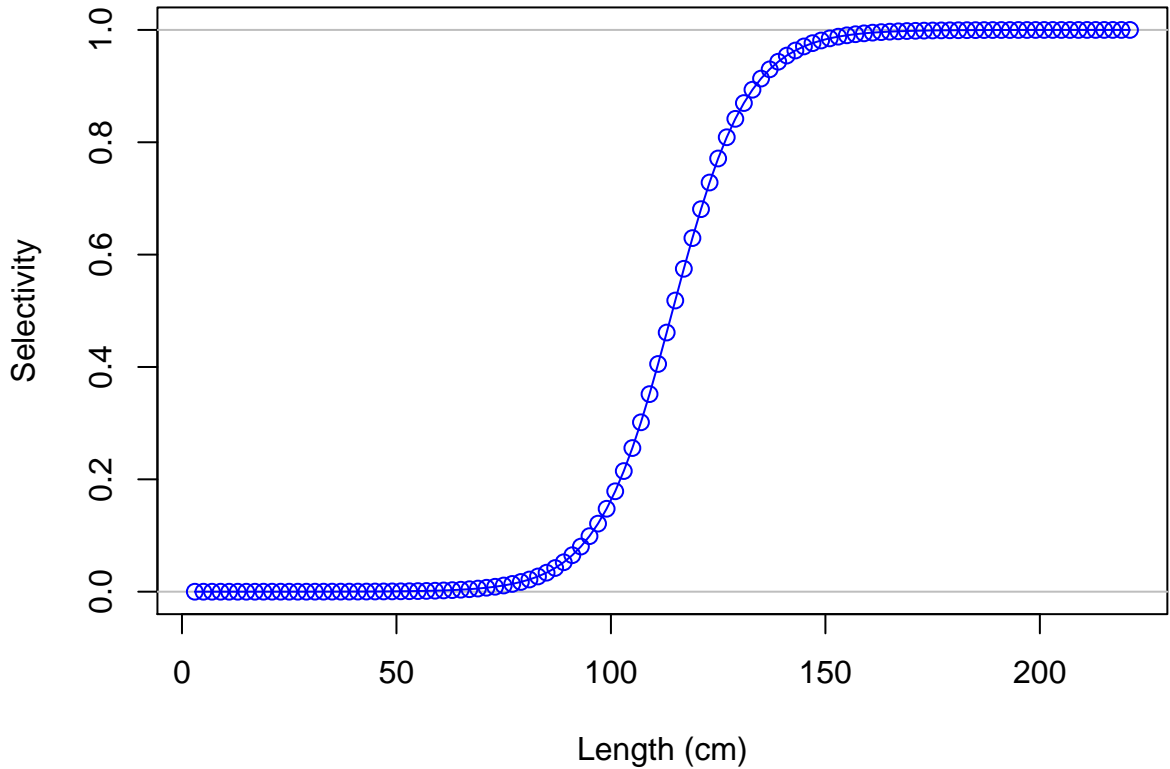
Male ending year selectivity for S6-LLc_C_w



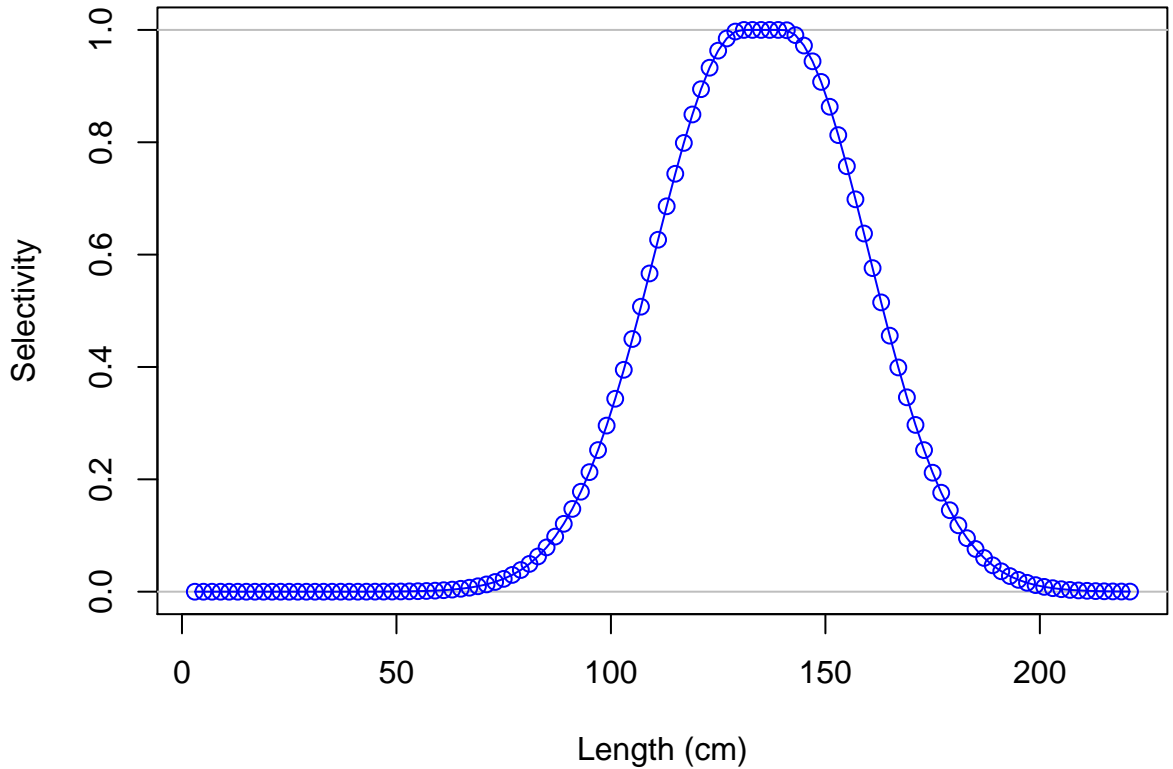
Female ending year selectivity for S7-LLc_S_w



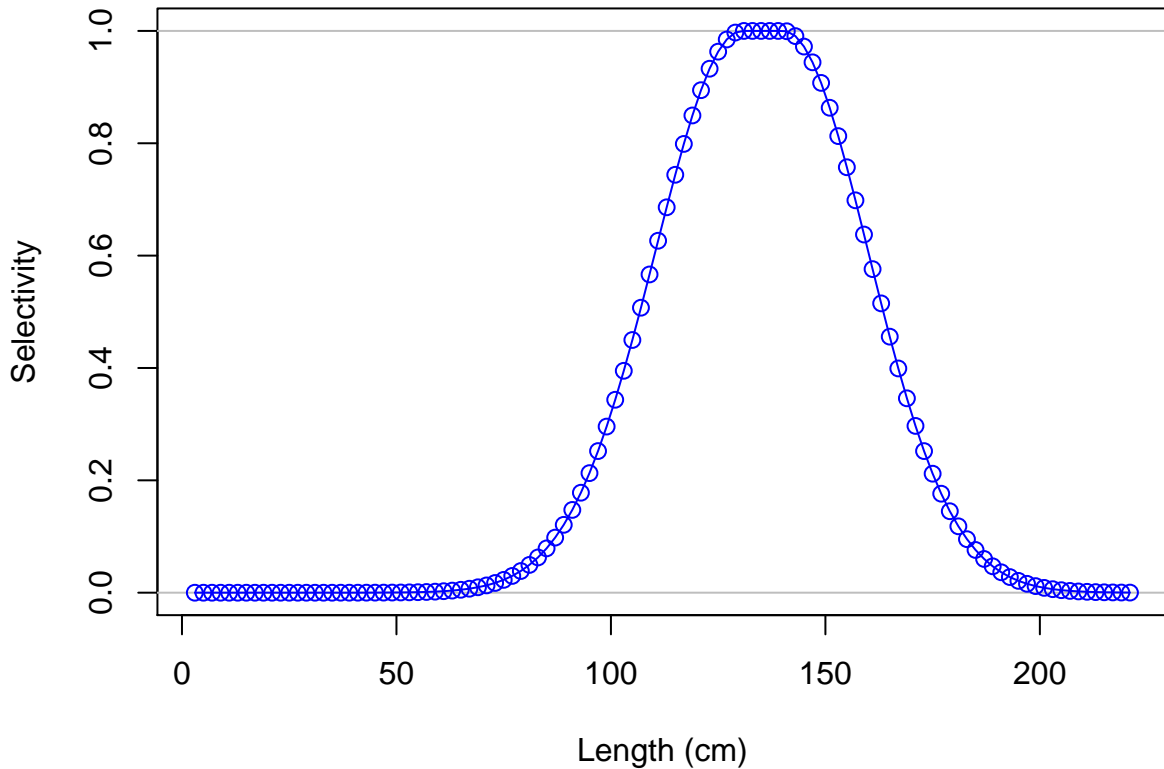
Male ending year selectivity for S7-LLc_S_w



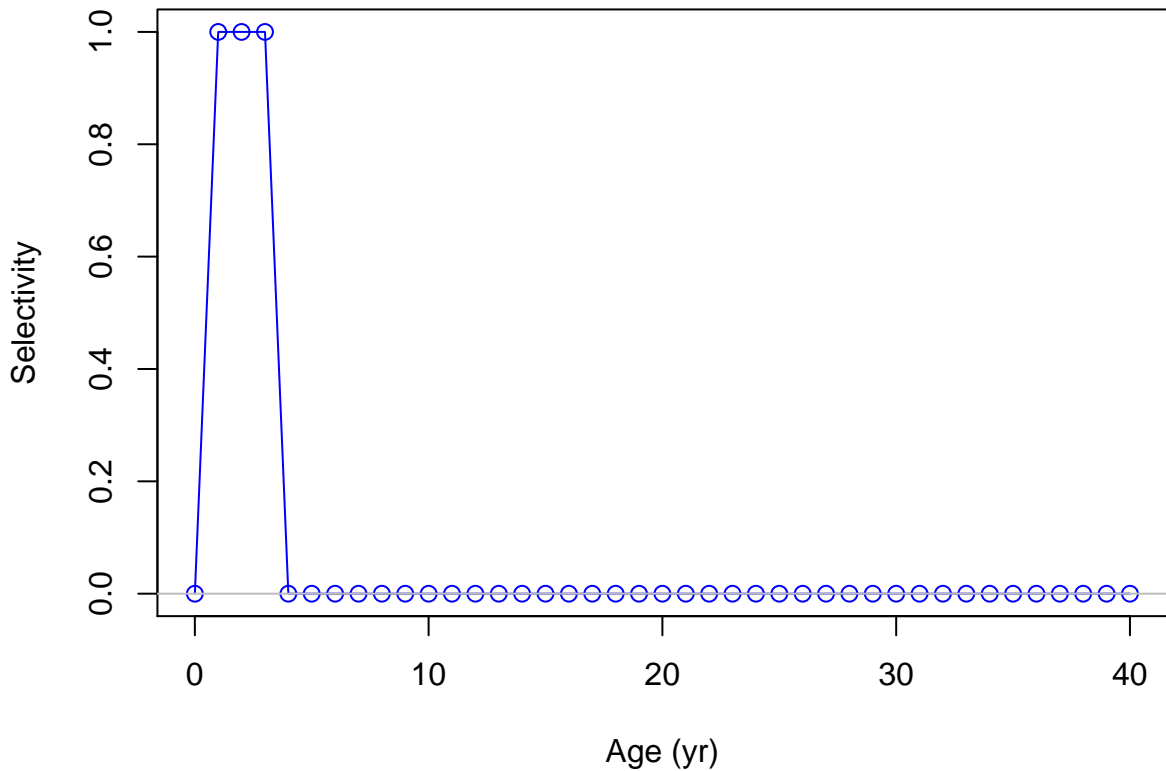
Female ending year selectivity for S8-LLc_I_w



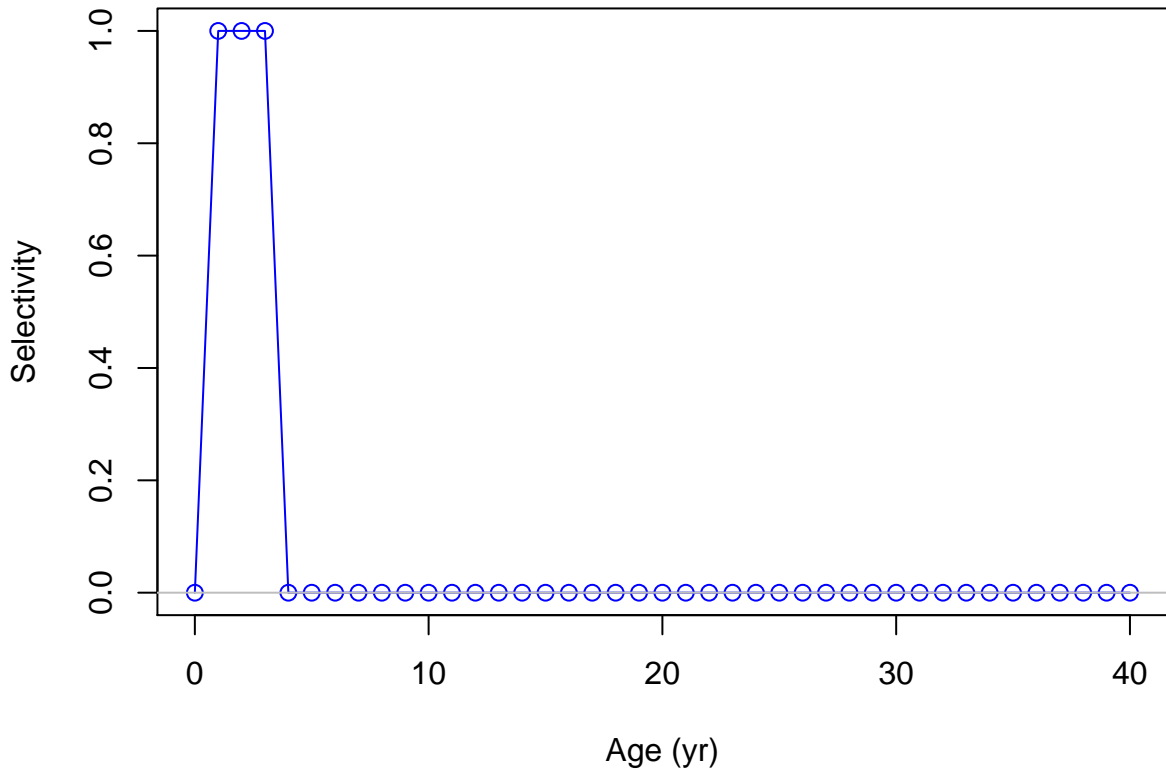
Male ending year selectivity for S8-LLc_I_w



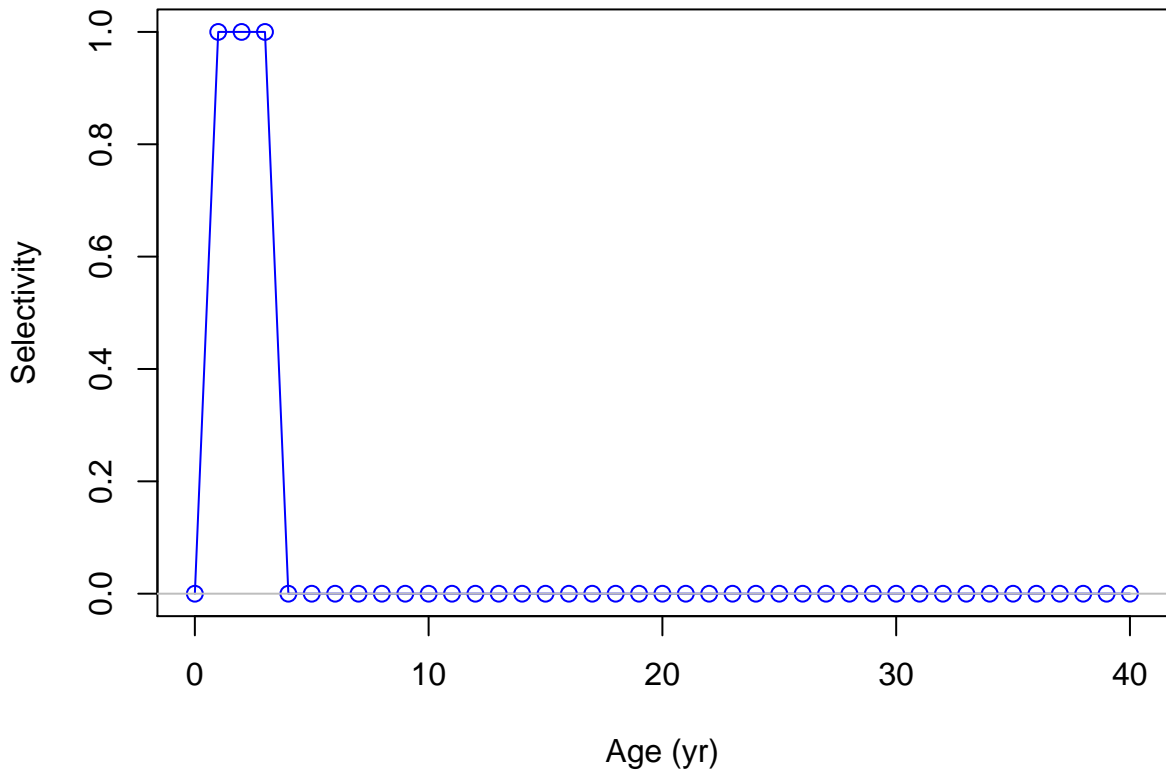
Female ending year selectivity for F8-OBJ_S_disc



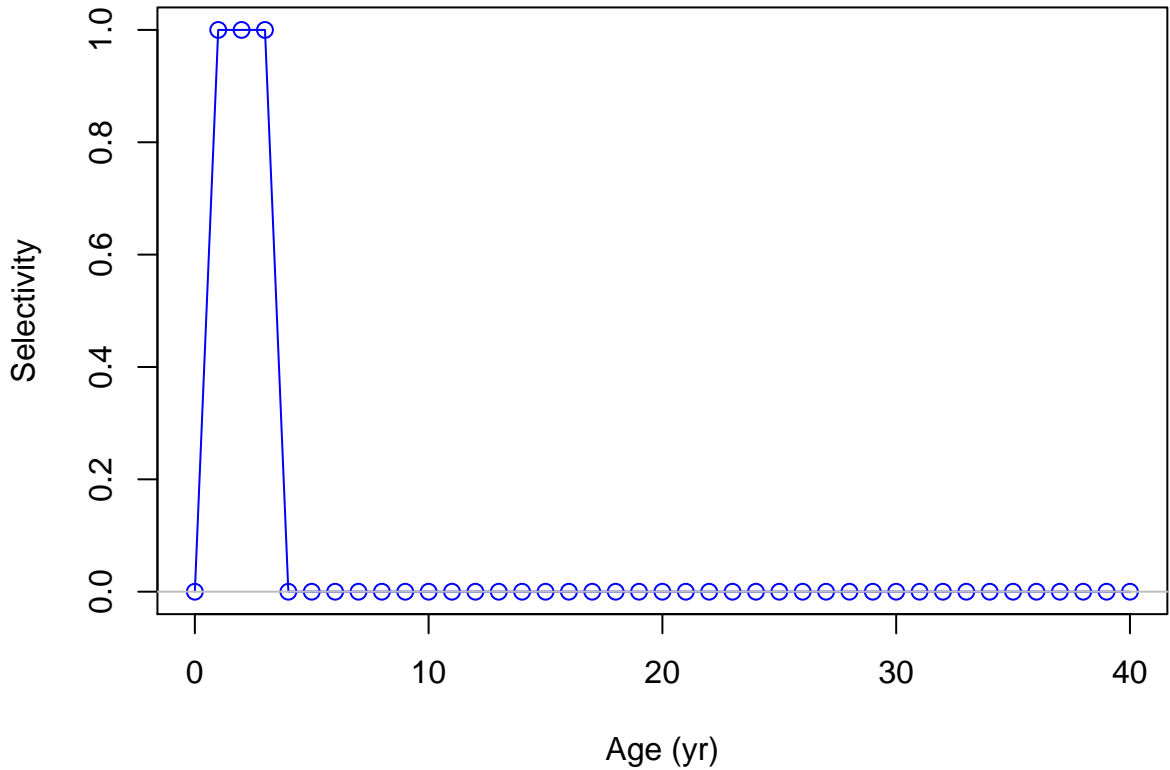
Male ending year selectivity for F8-OBJ_S_disc



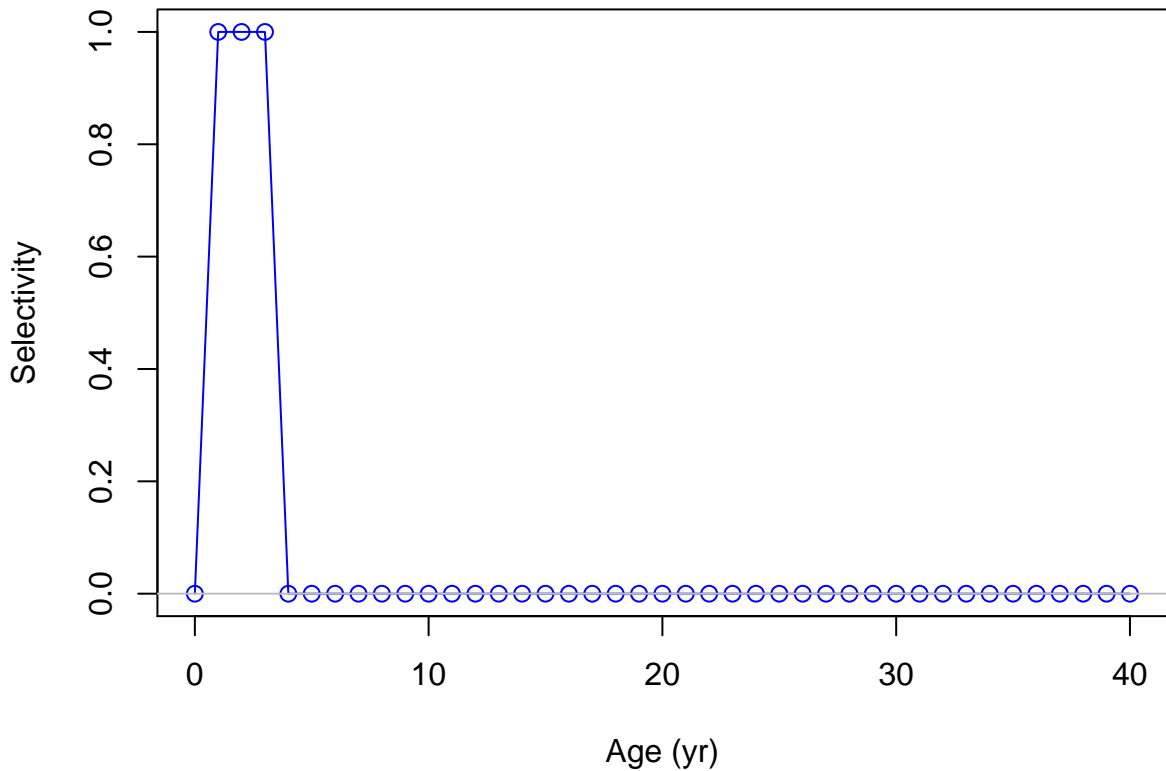
Female ending year selectivity for F9-Obj_C_disc



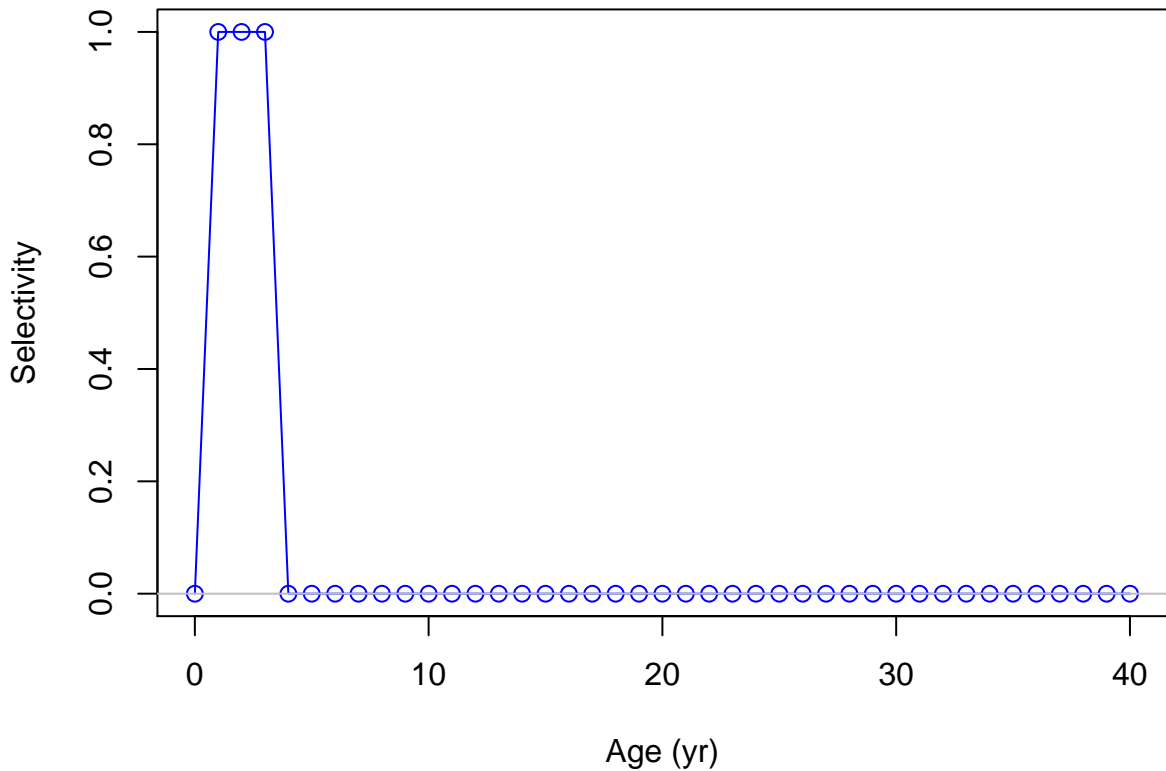
Male ending year selectivity for F9-OBJ_C_disc



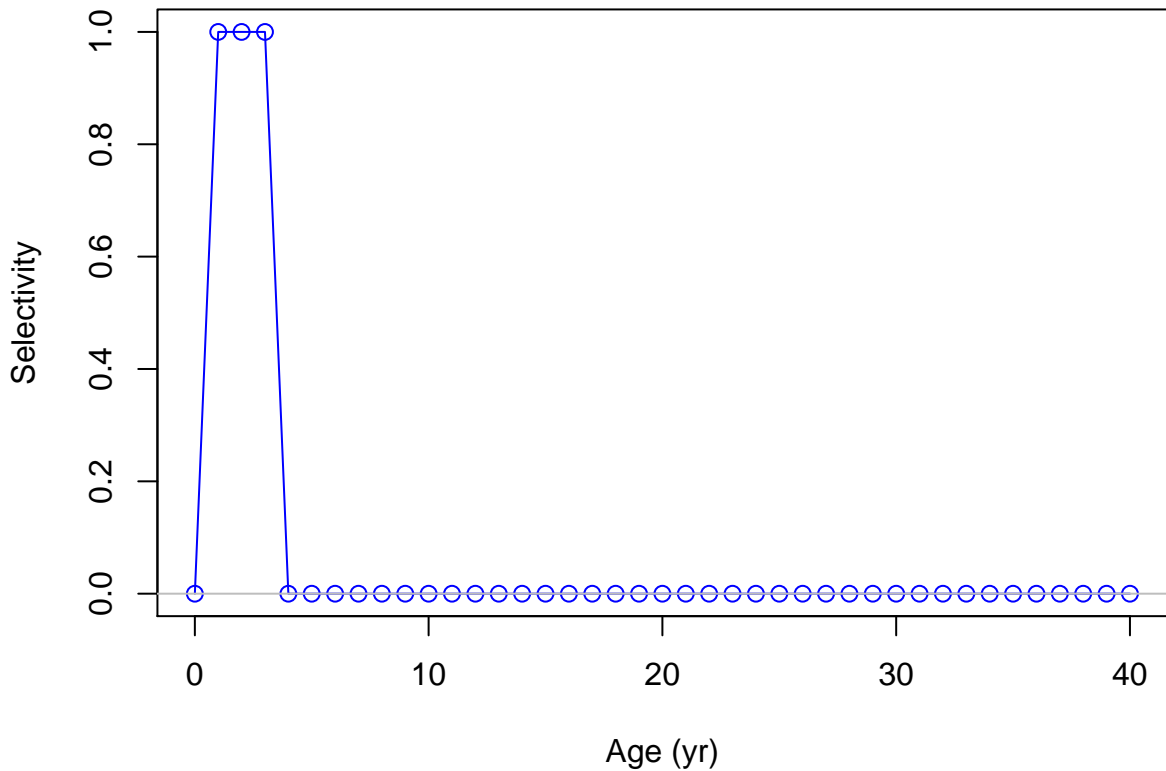
Female ending year selectivity for F10-OBJ_I_disc



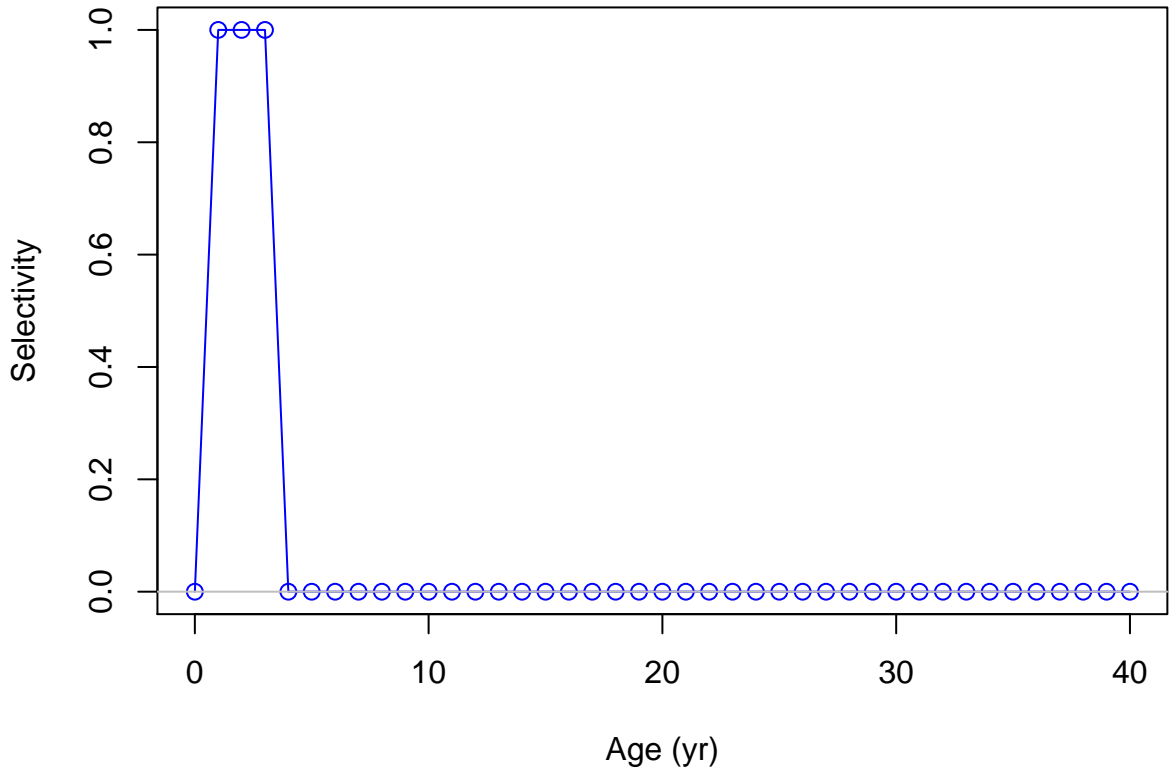
Male ending year selectivity for F10-OBJ_I_disc



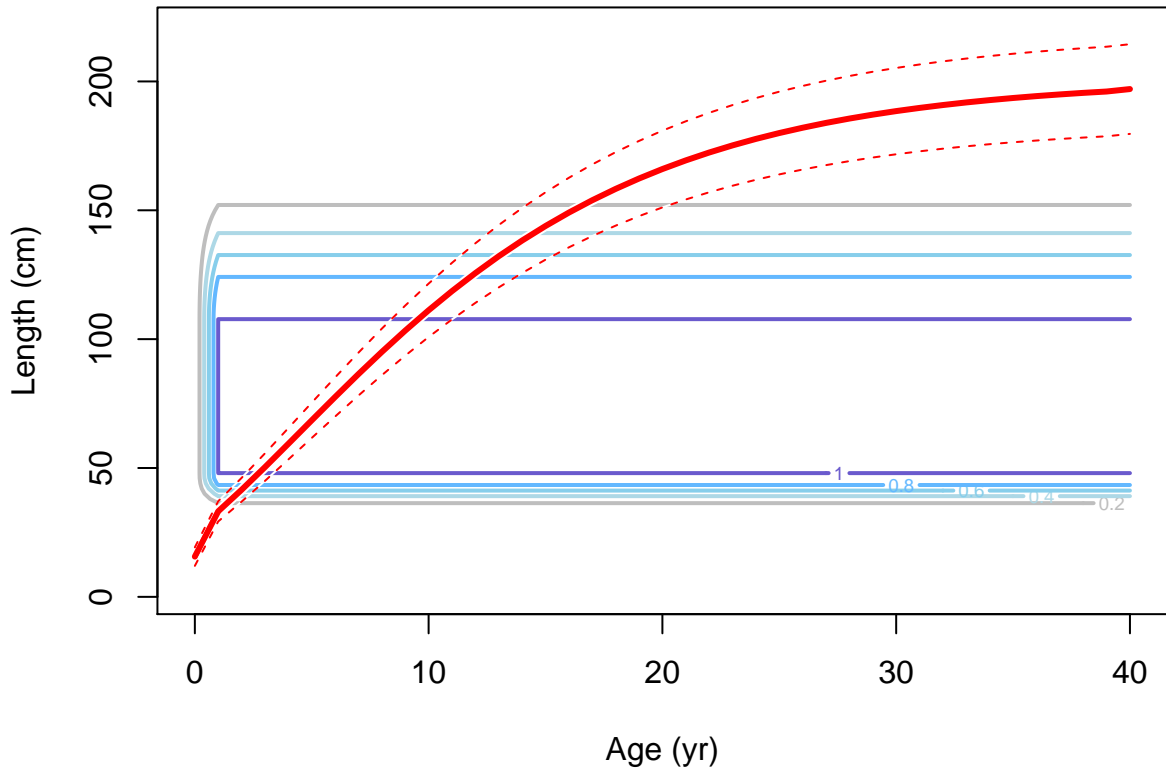
Female ending year selectivity for F11-OBJ_N_disc



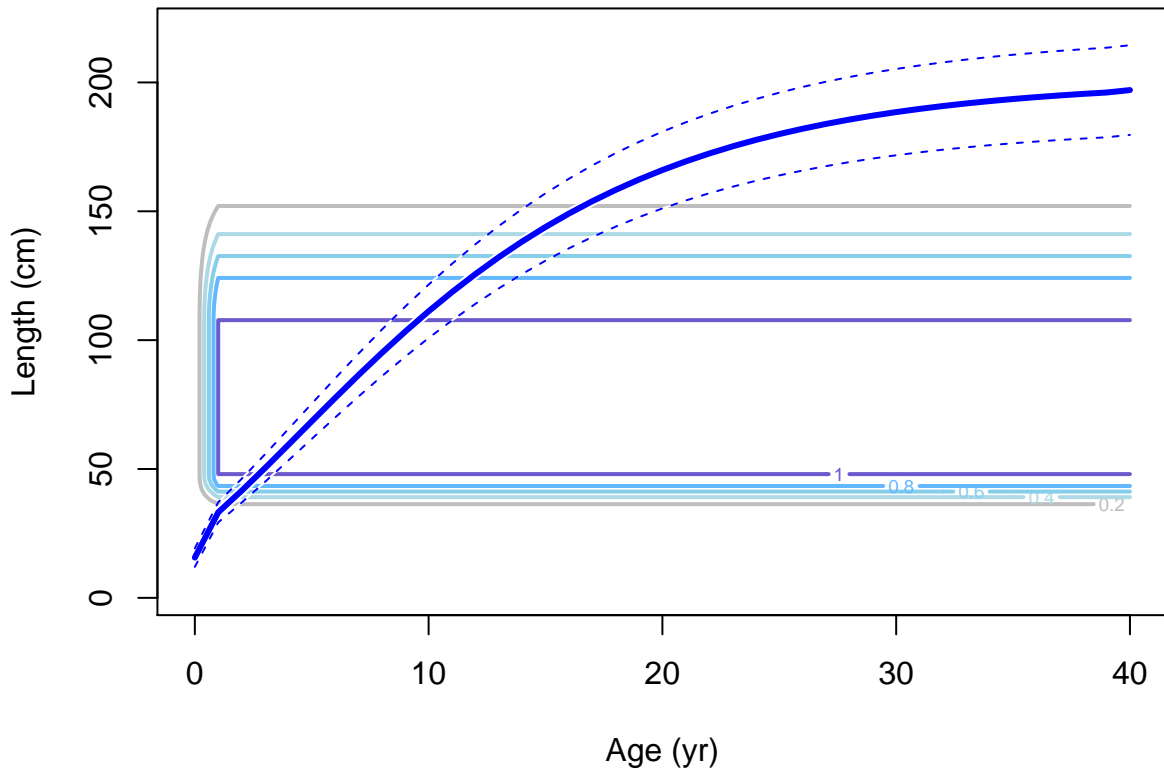
Male ending year selectivity for F11-OBJ_N_disc



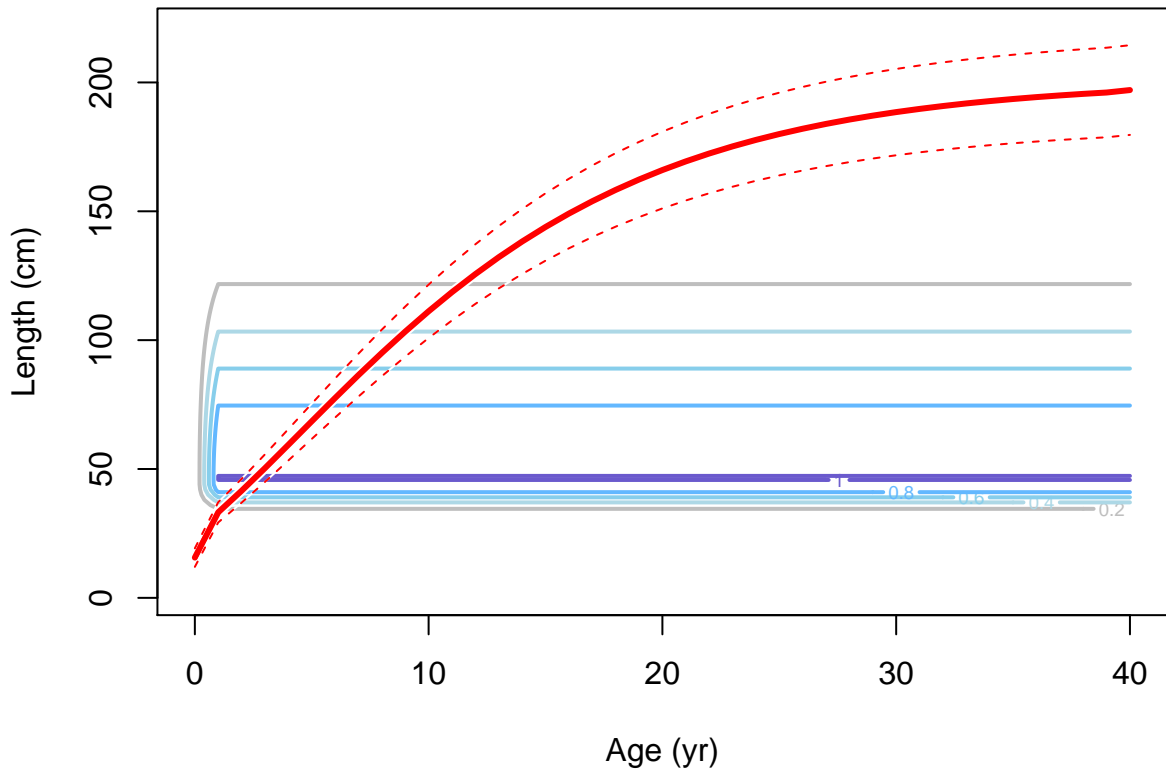
Female ending year selectivity and growth for F1-OBJ_early



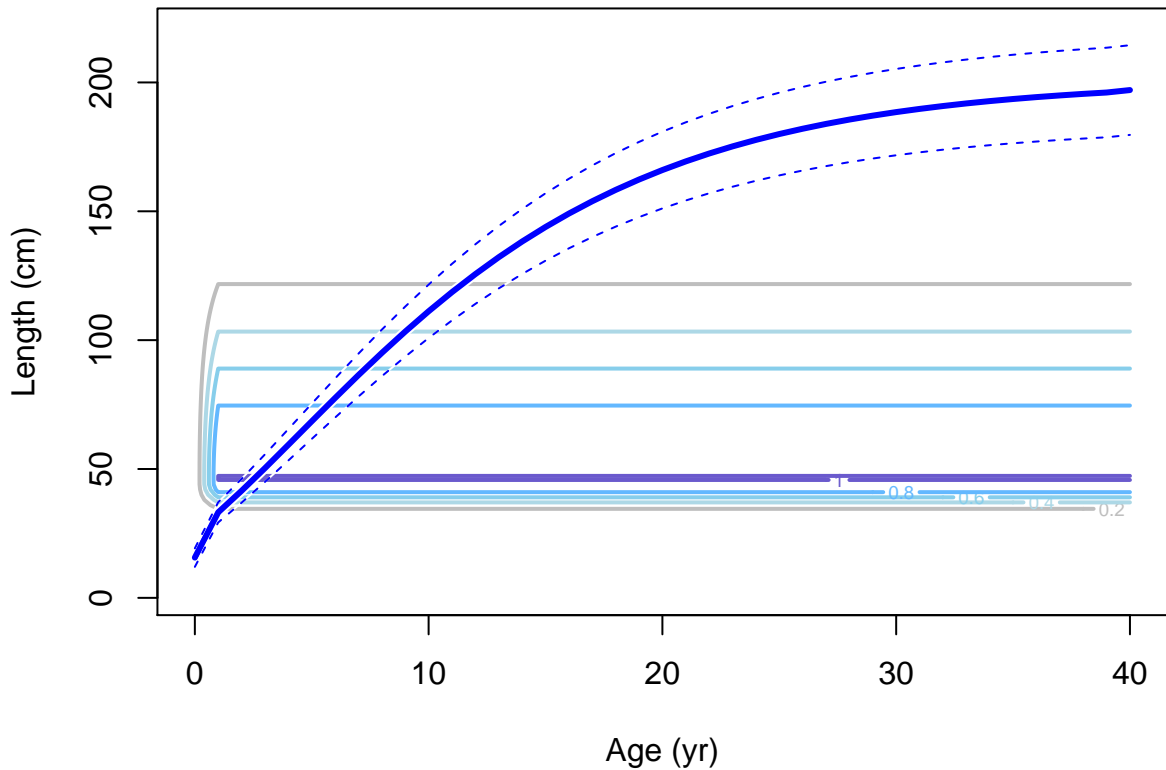
Male ending year selectivity and growth for F1-Obj_early



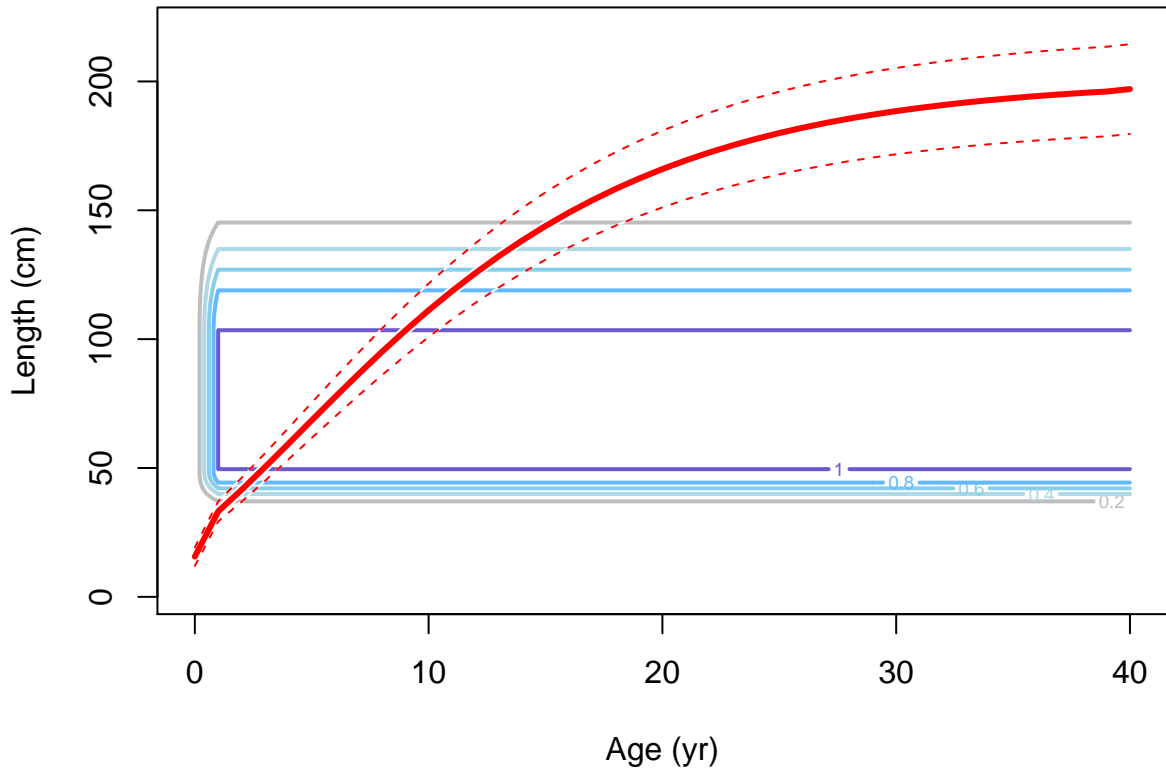
Female ending year selectivity and growth for F2-OBJ_S



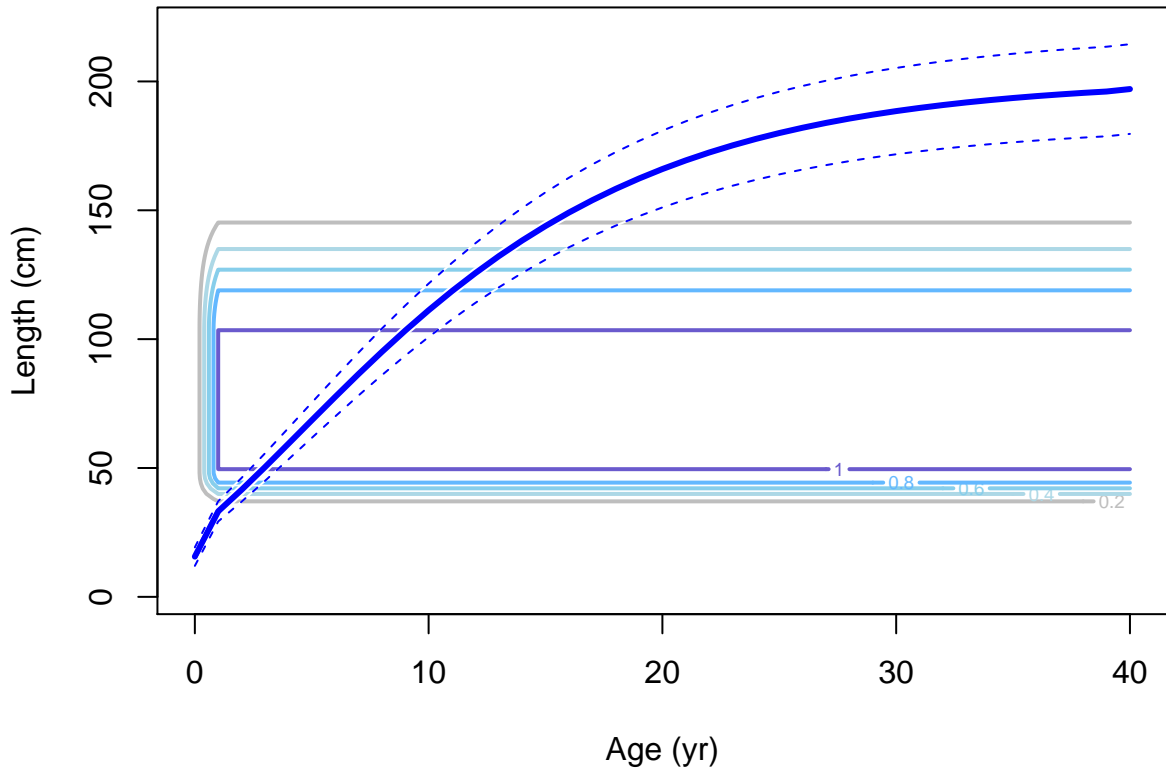
Male ending year selectivity and growth for F2-OBJ_S



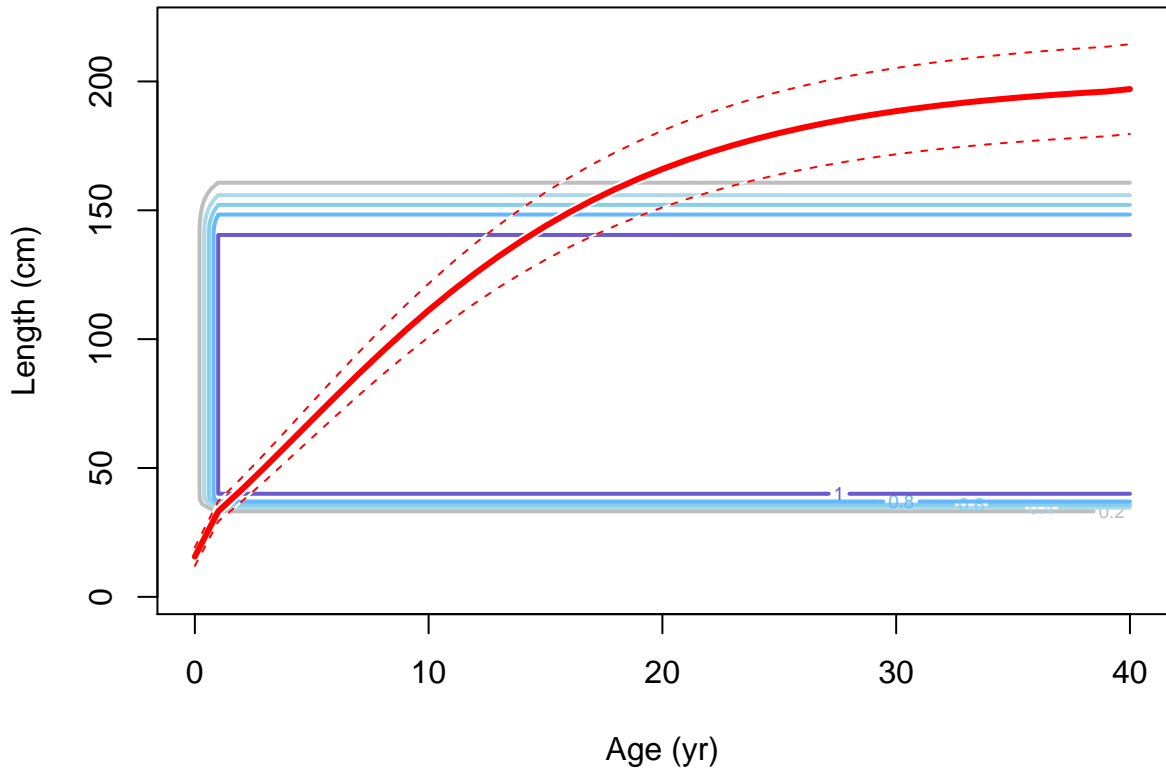
Female ending year selectivity and growth for F3-OBJ_C



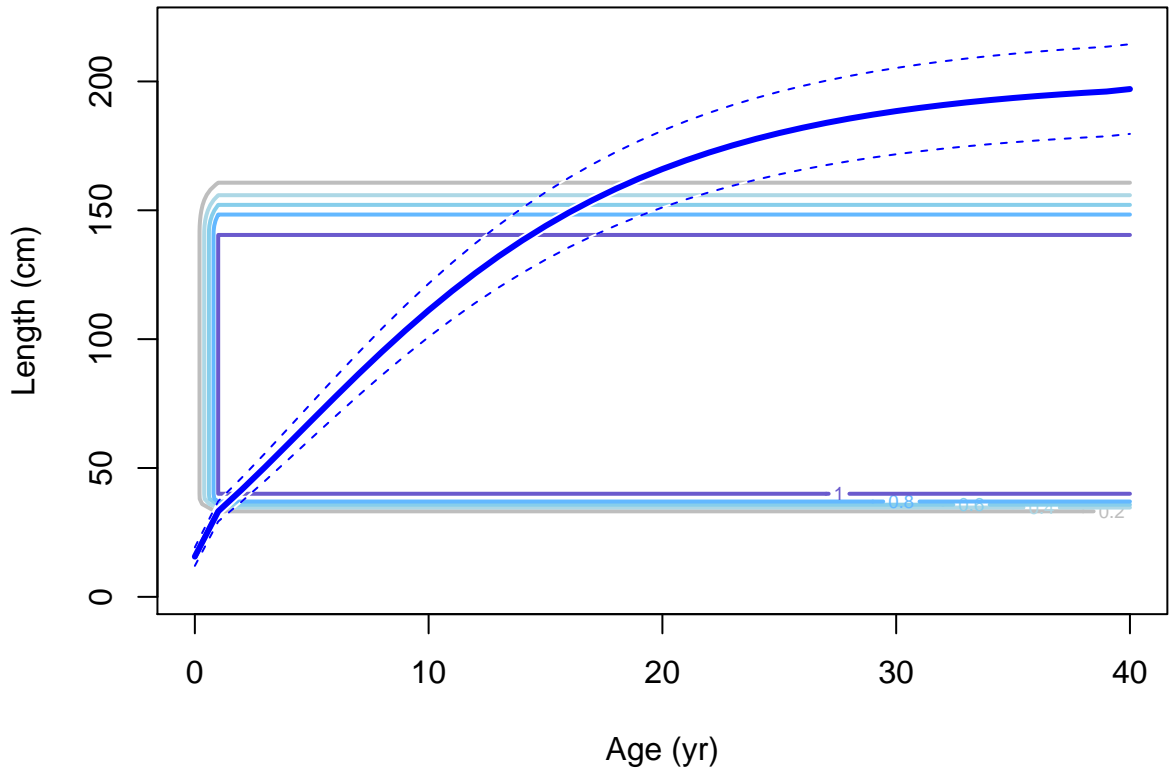
Male ending year selectivity and growth for F3-OBJ_C



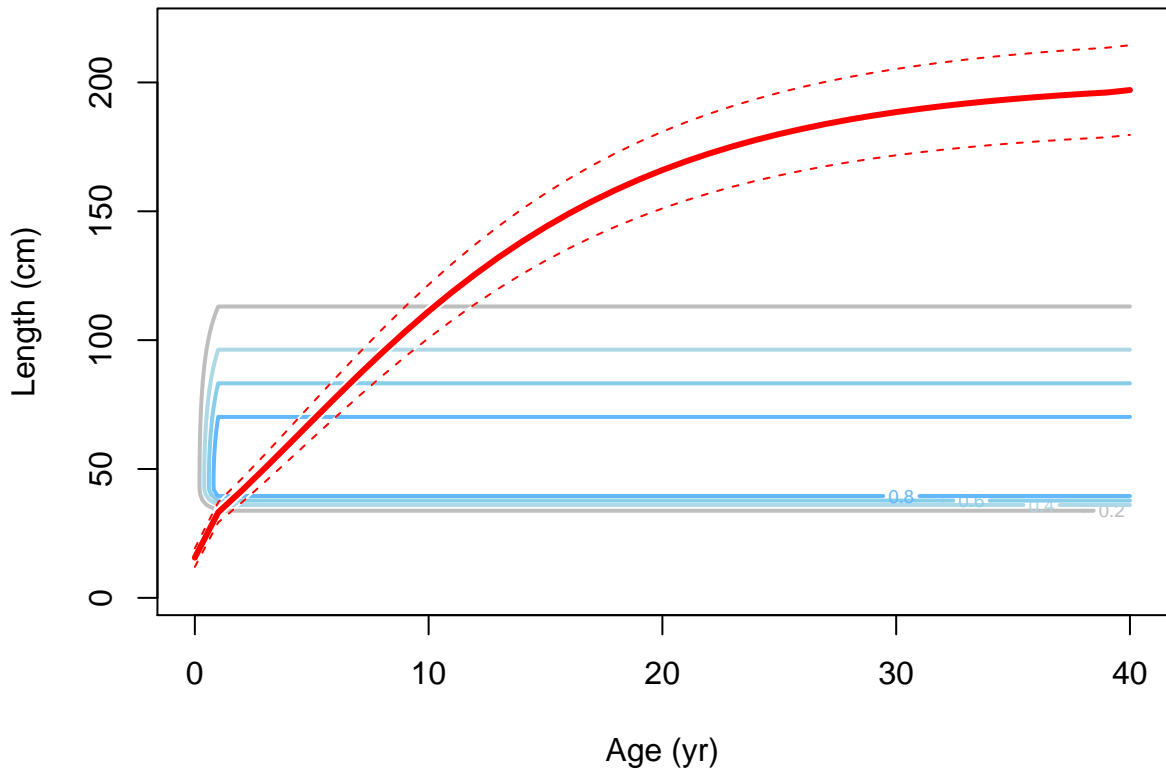
Female ending year selectivity and growth for F4-OBJ_I



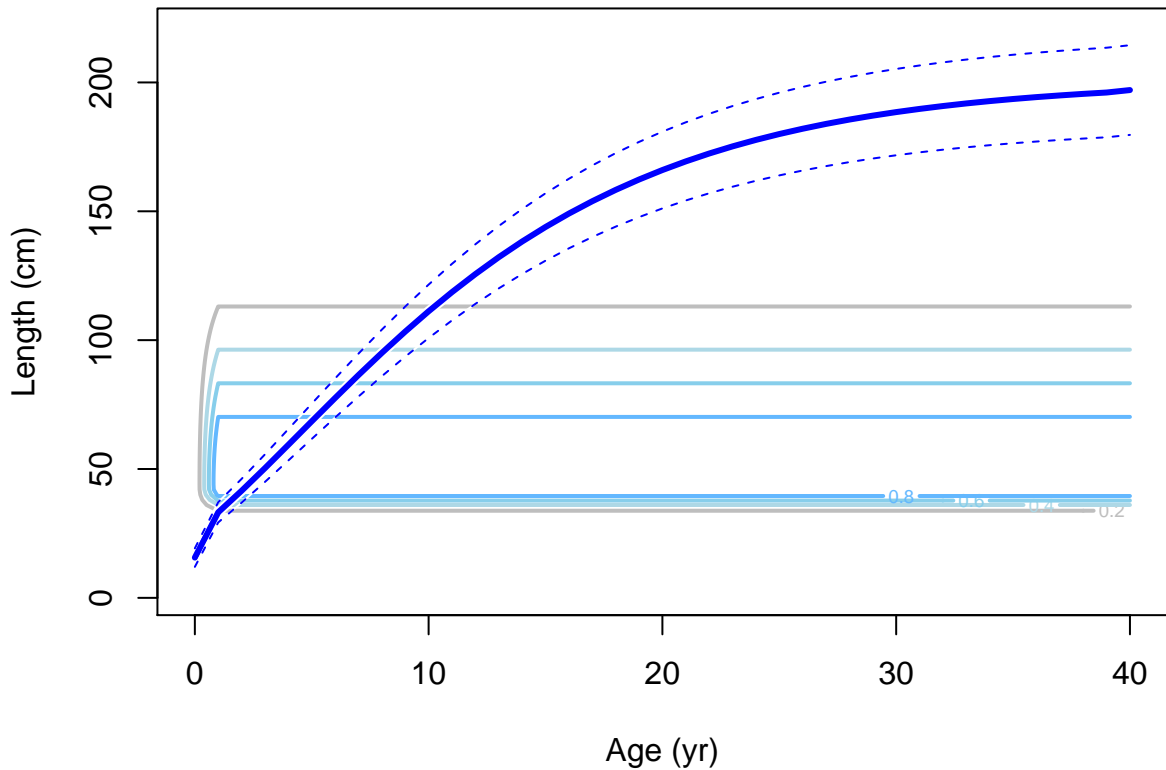
Male ending year selectivity and growth for F4-OBJ_I



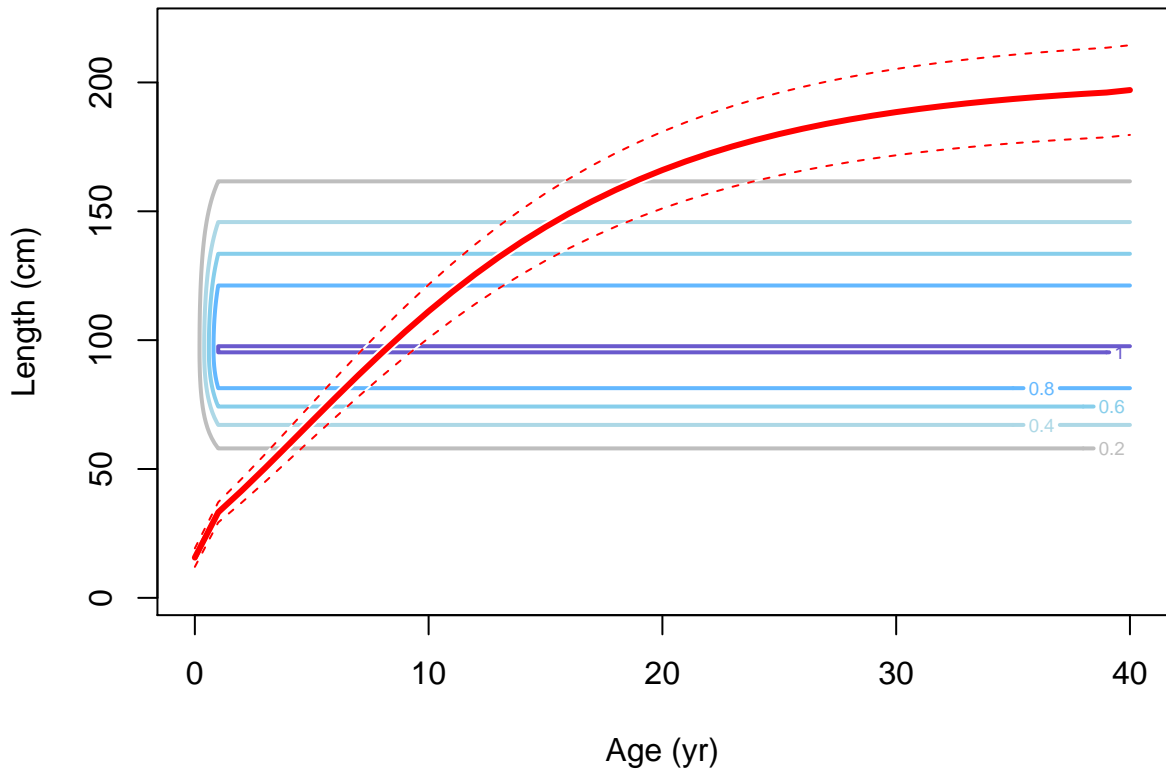
Female ending year selectivity and growth for F5-OBJ_N



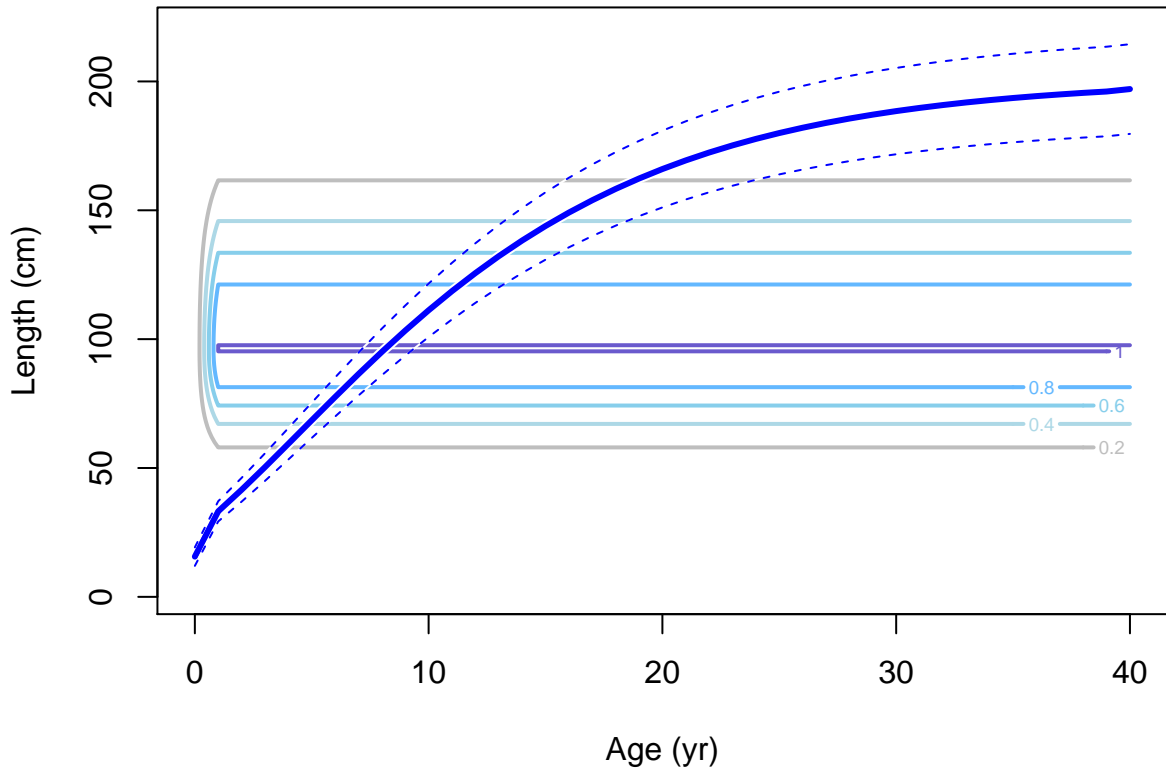
Male ending year selectivity and growth for F5-OBJ_N



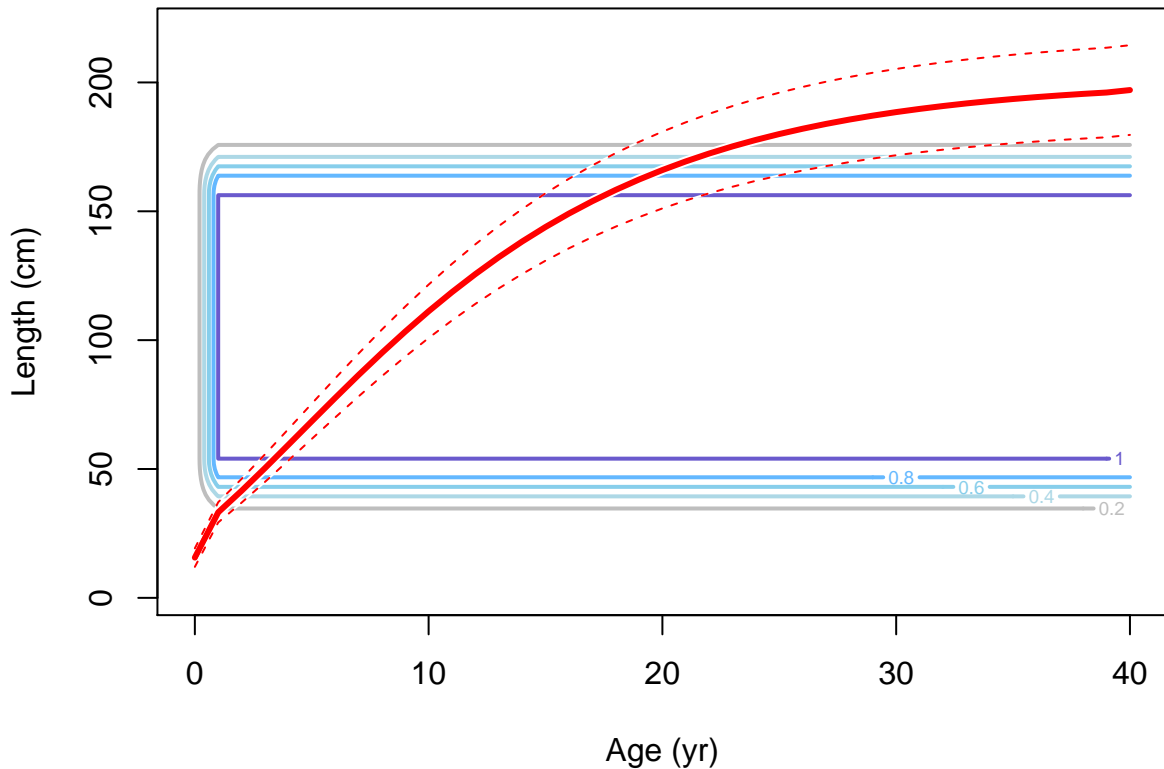
Female ending year selectivity and growth for F6-NOA-DEL_early



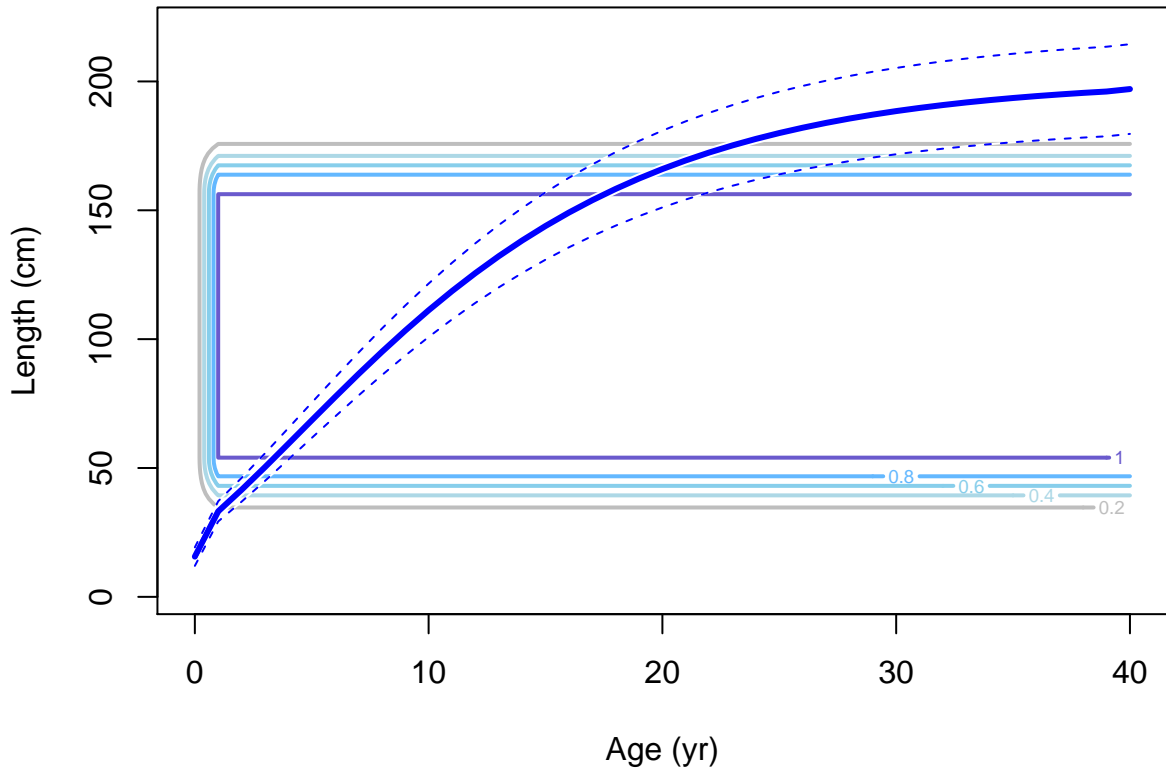
Male ending year selectivity and growth for F6-NOA-DEL_early



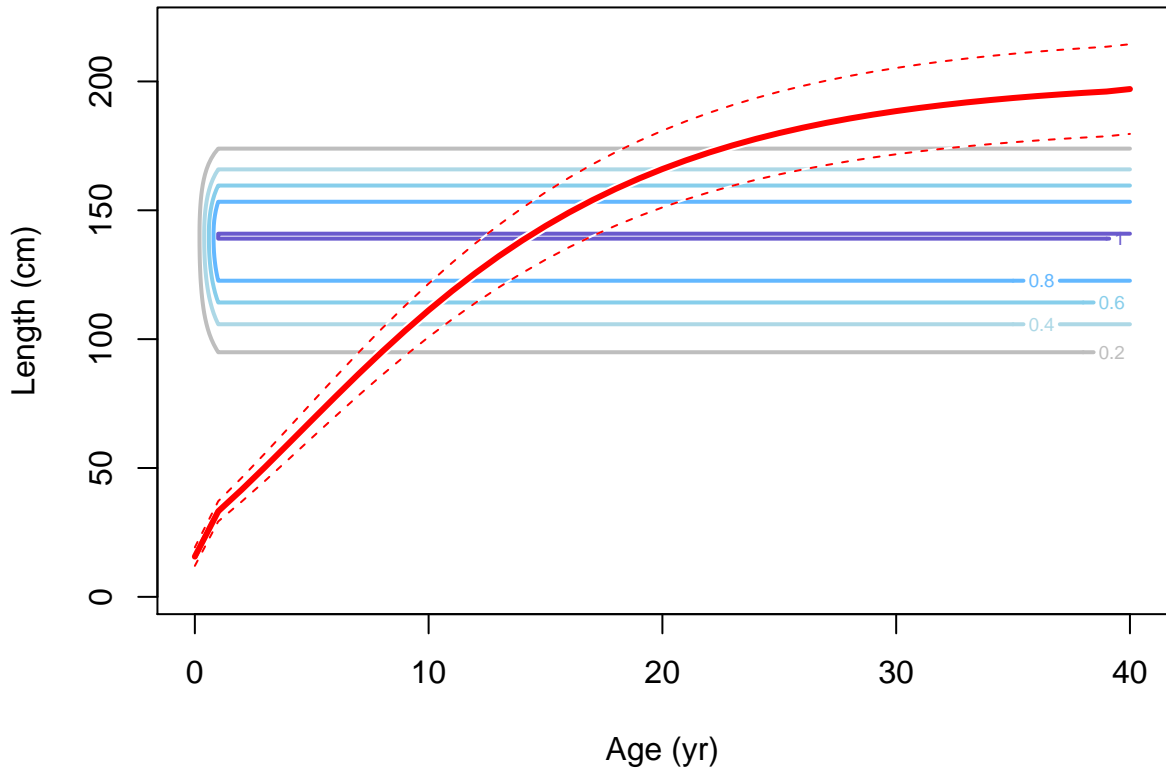
Female ending year selectivity and growth for F7-NOA-DEL_late



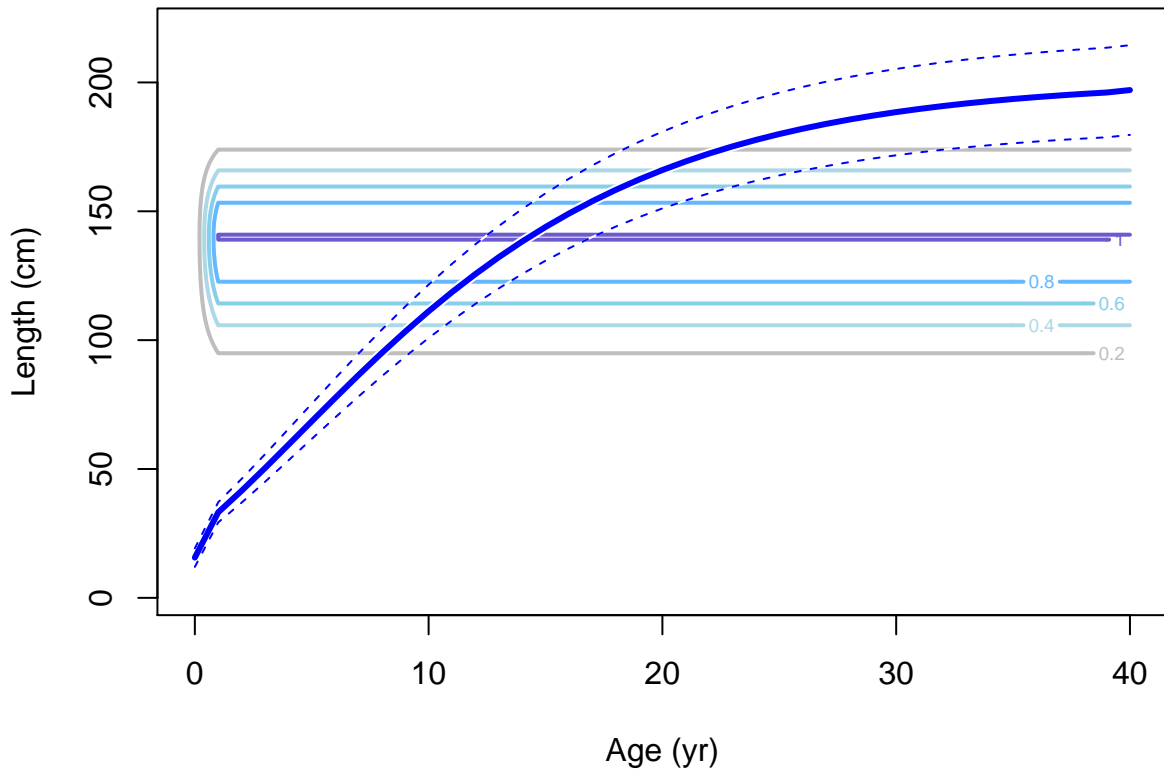
Male ending year selectivity and growth for F7-NOA-DEL_late



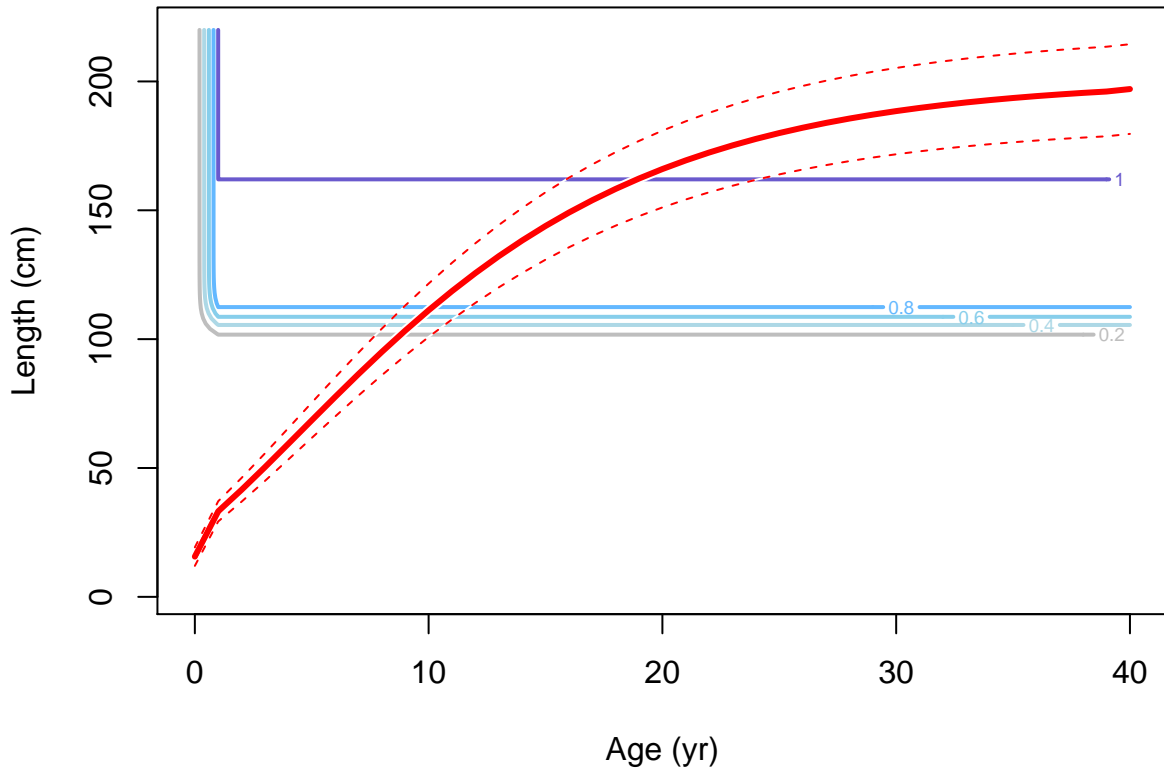
Female ending year selectivity and growth for F12-LL_N_num



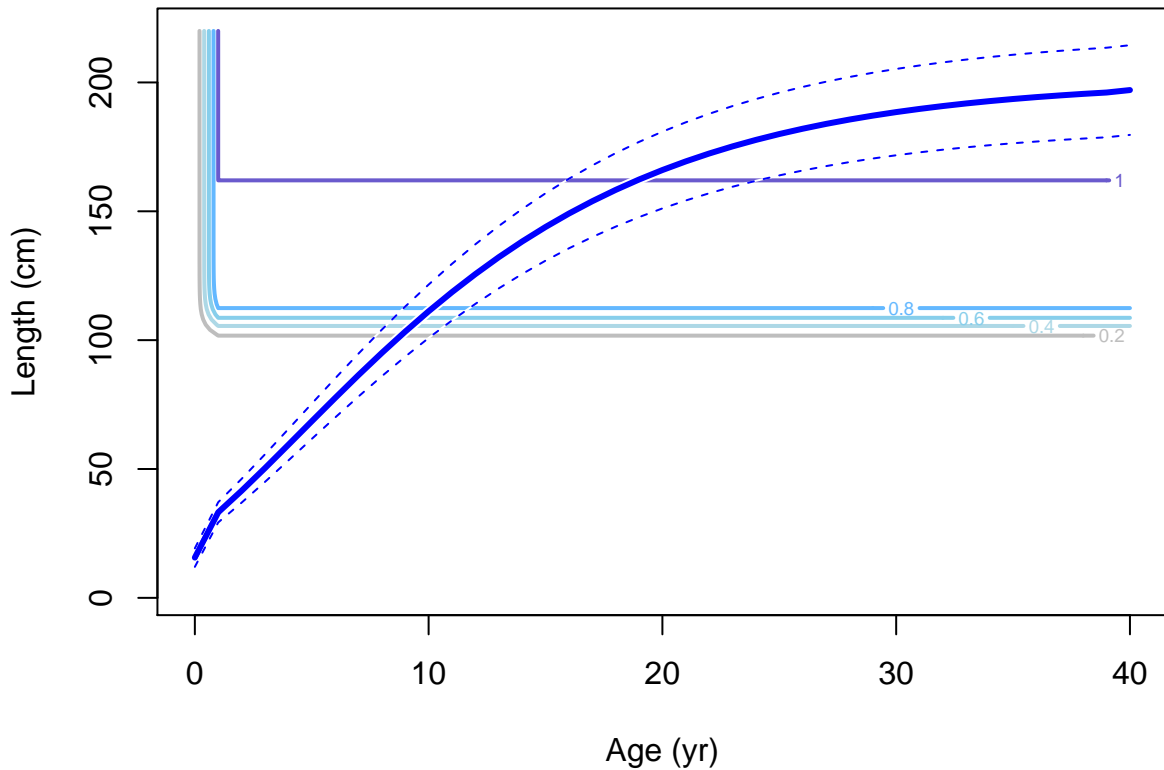
Male ending year selectivity and growth for F12-LL_N_num



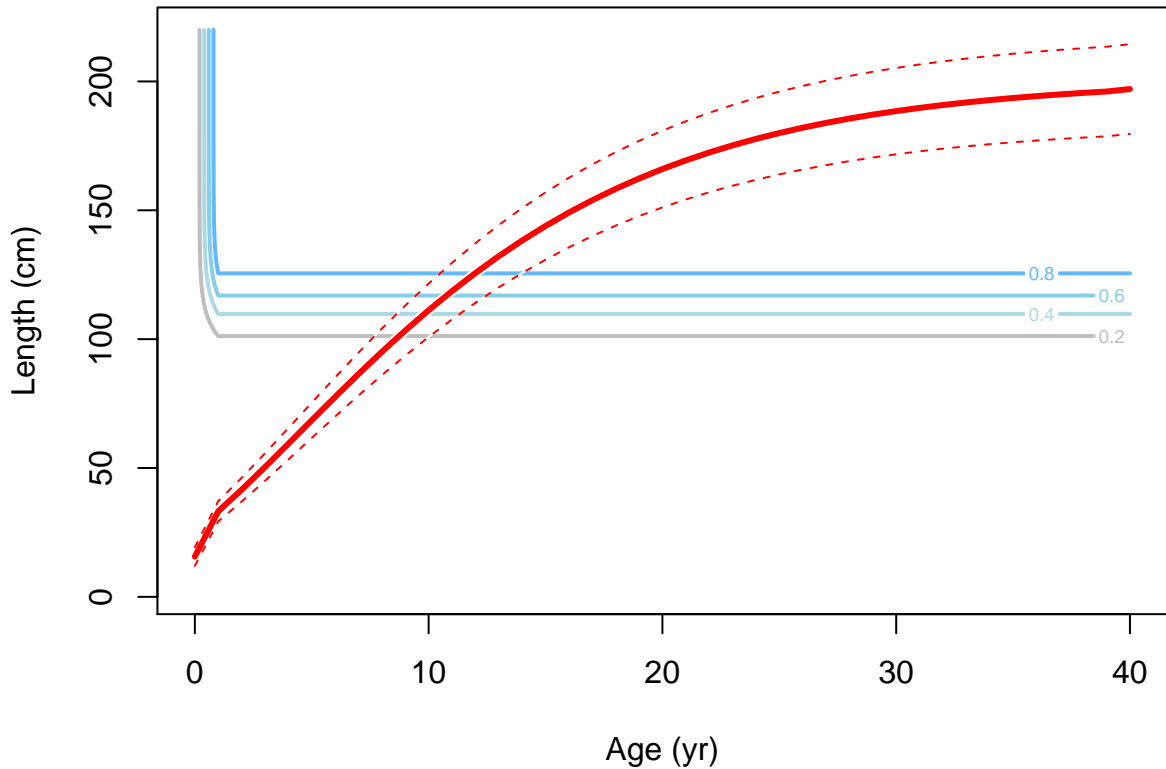
Female ending year selectivity and growth for F13-LL_C_num



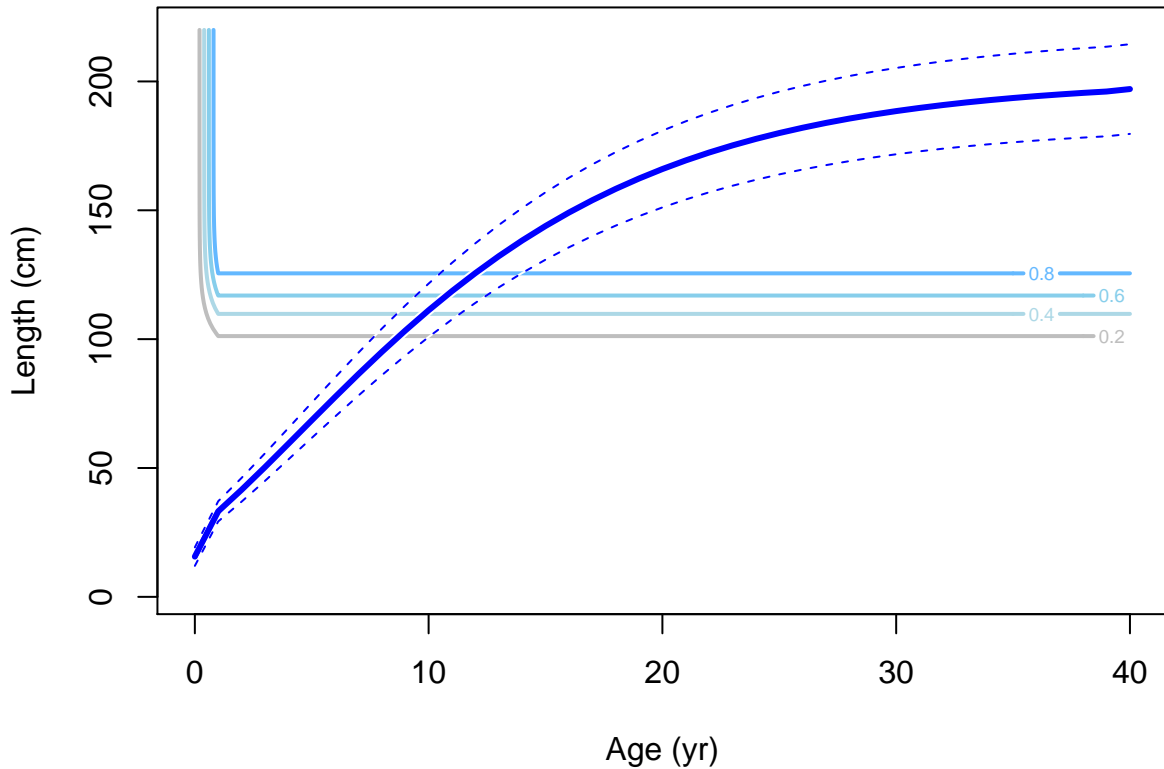
Male ending year selectivity and growth for F13-LL_C_num



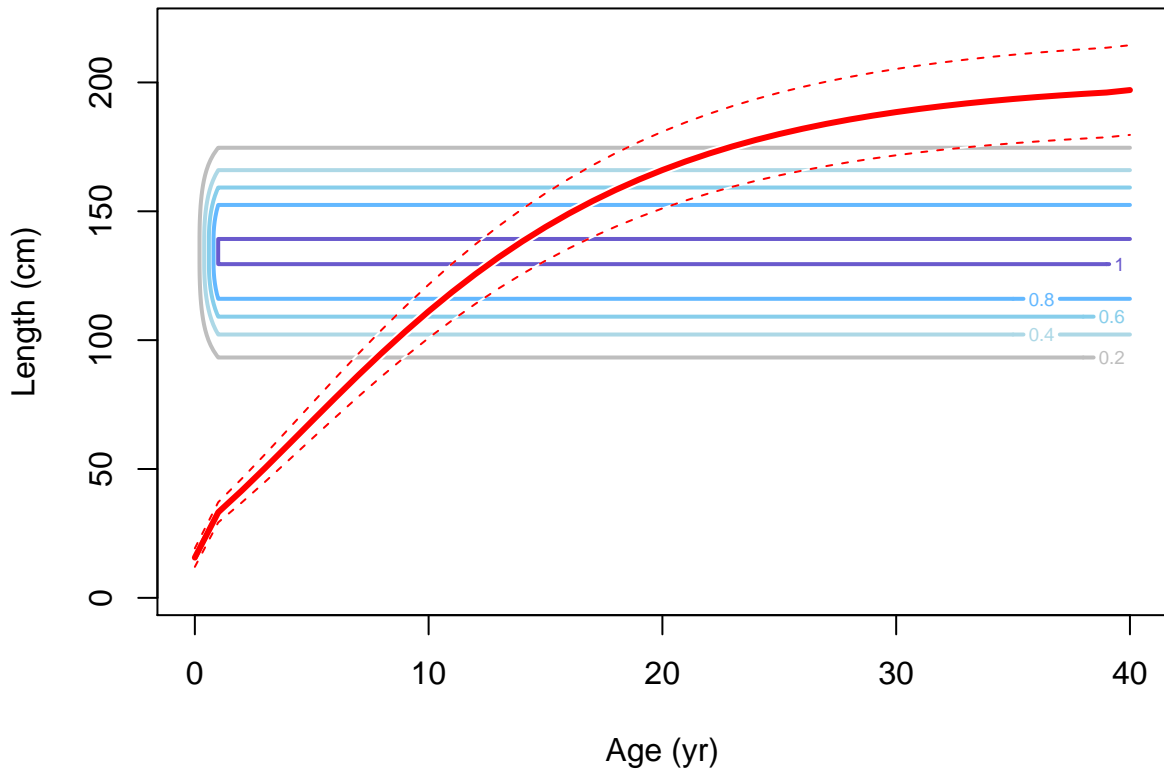
Female ending year selectivity and growth for F14-LL_S_num



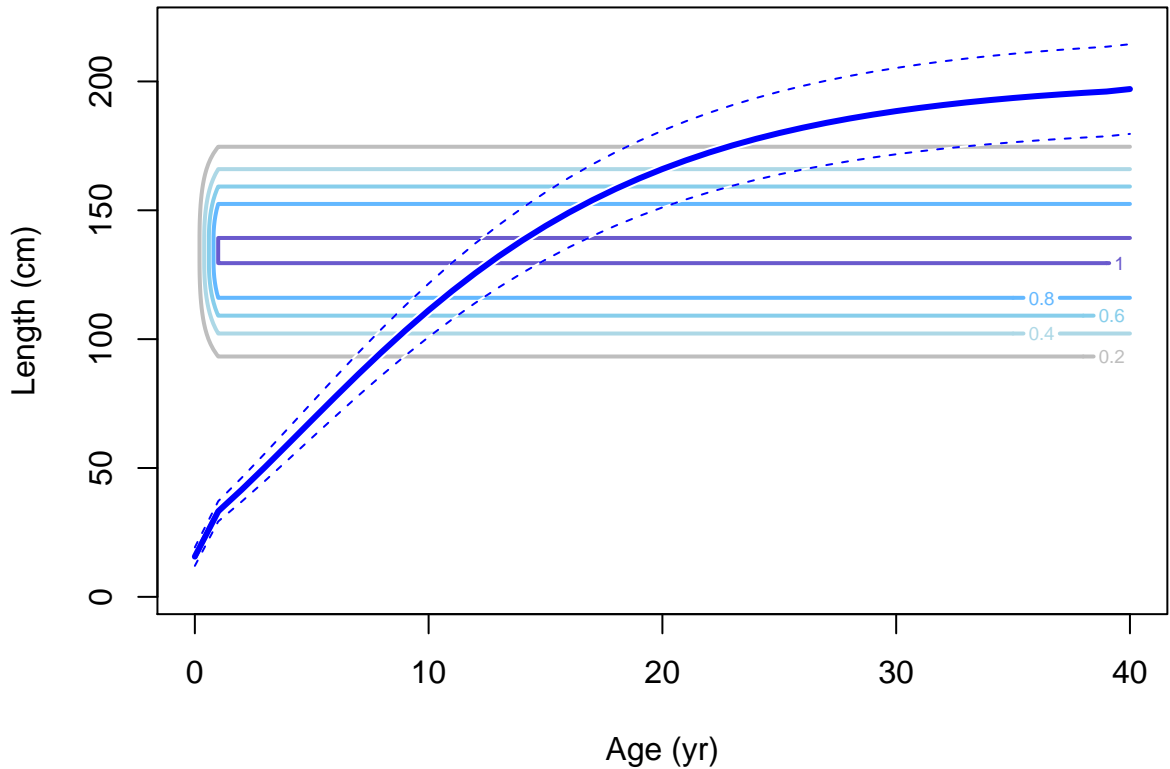
Male ending year selectivity and growth for F14-LL_S_num



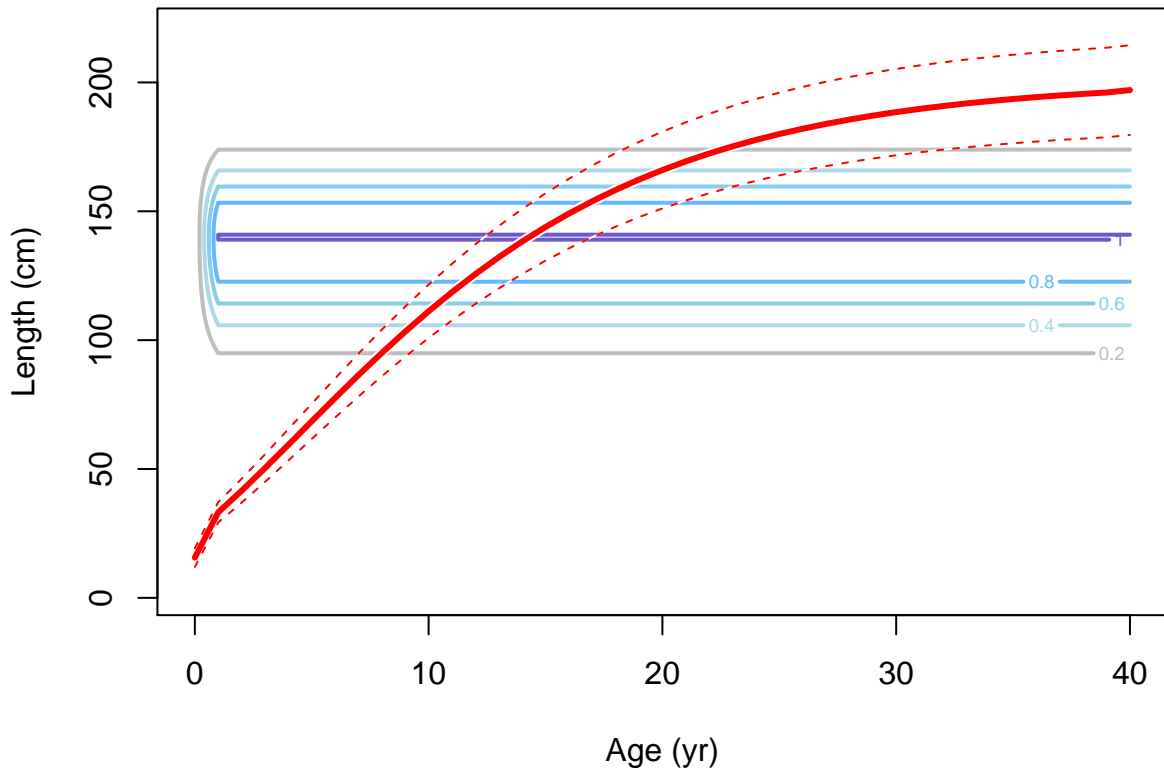
Female ending year selectivity and growth for F15-LL_I_num



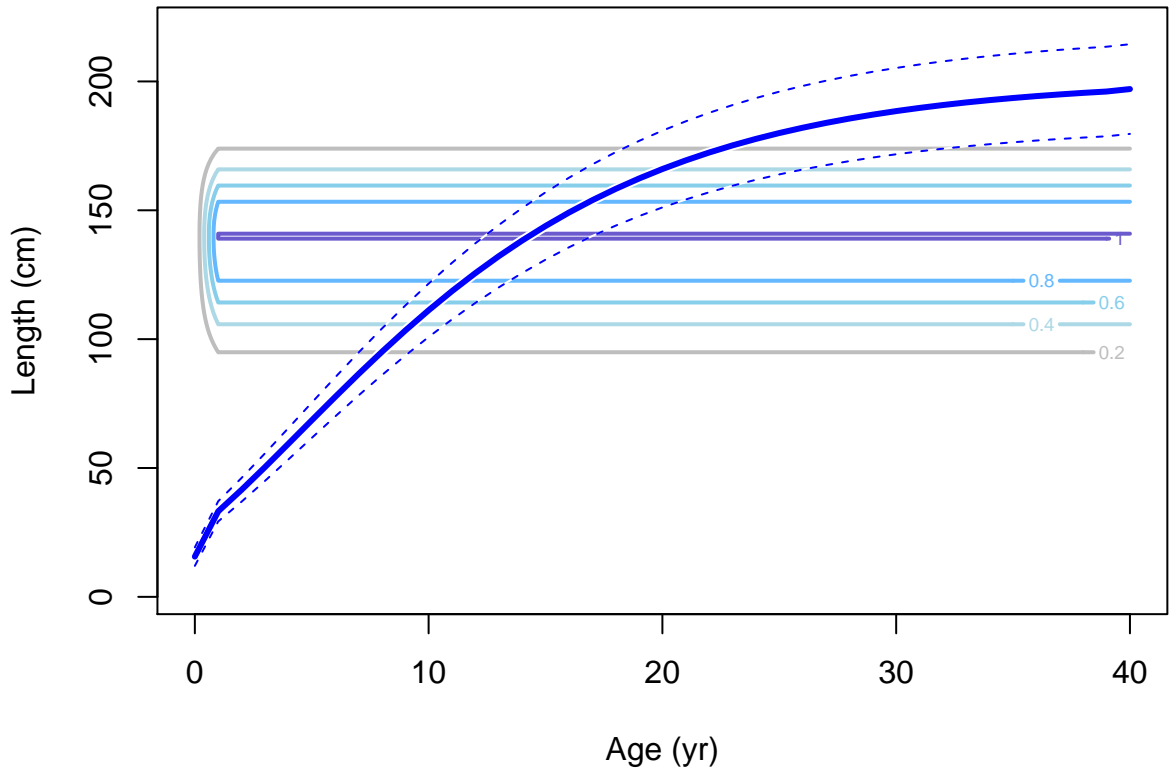
Male ending year selectivity and growth for F15-LL_I_num



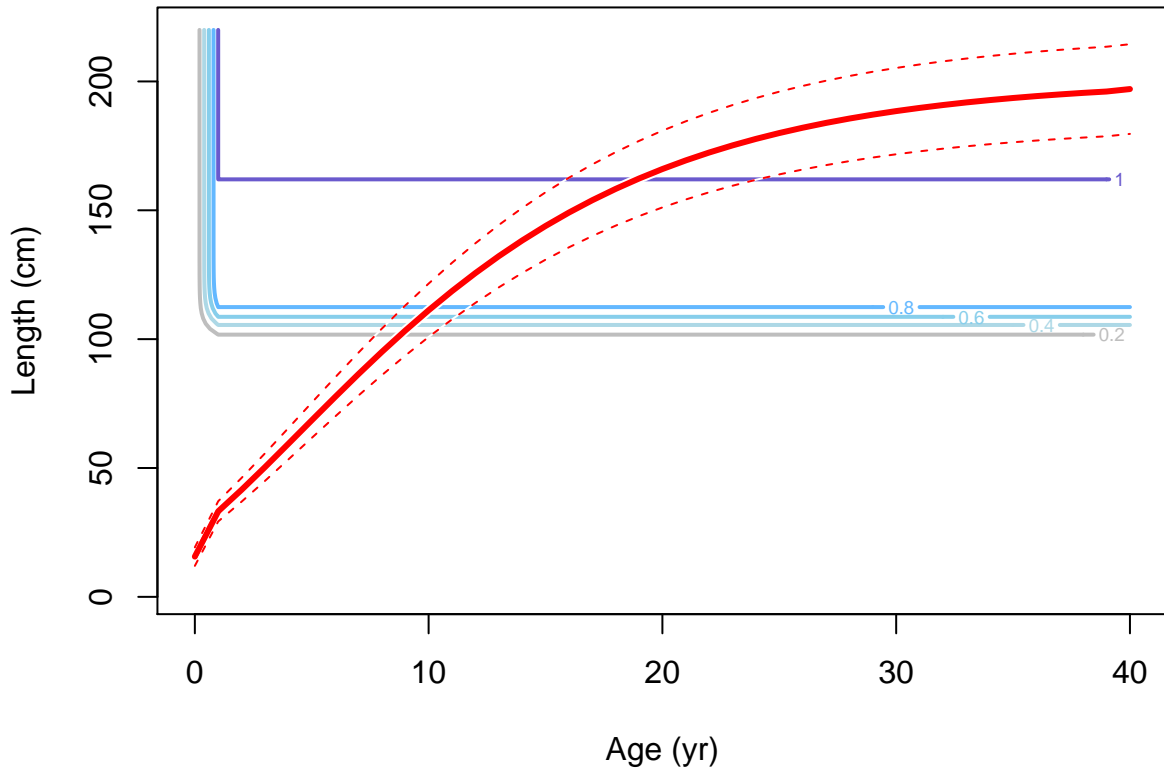
Female ending year selectivity and growth for F16-LL_N_w



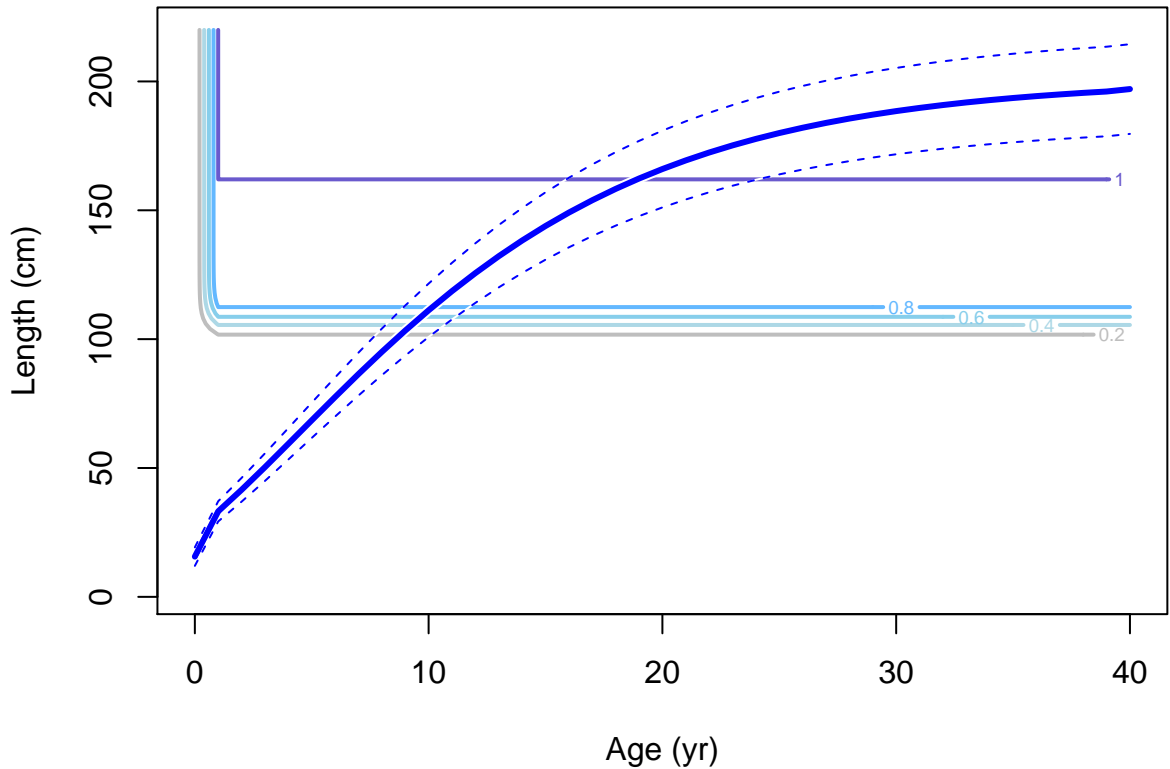
Male ending year selectivity and growth for F16-LL_N_w



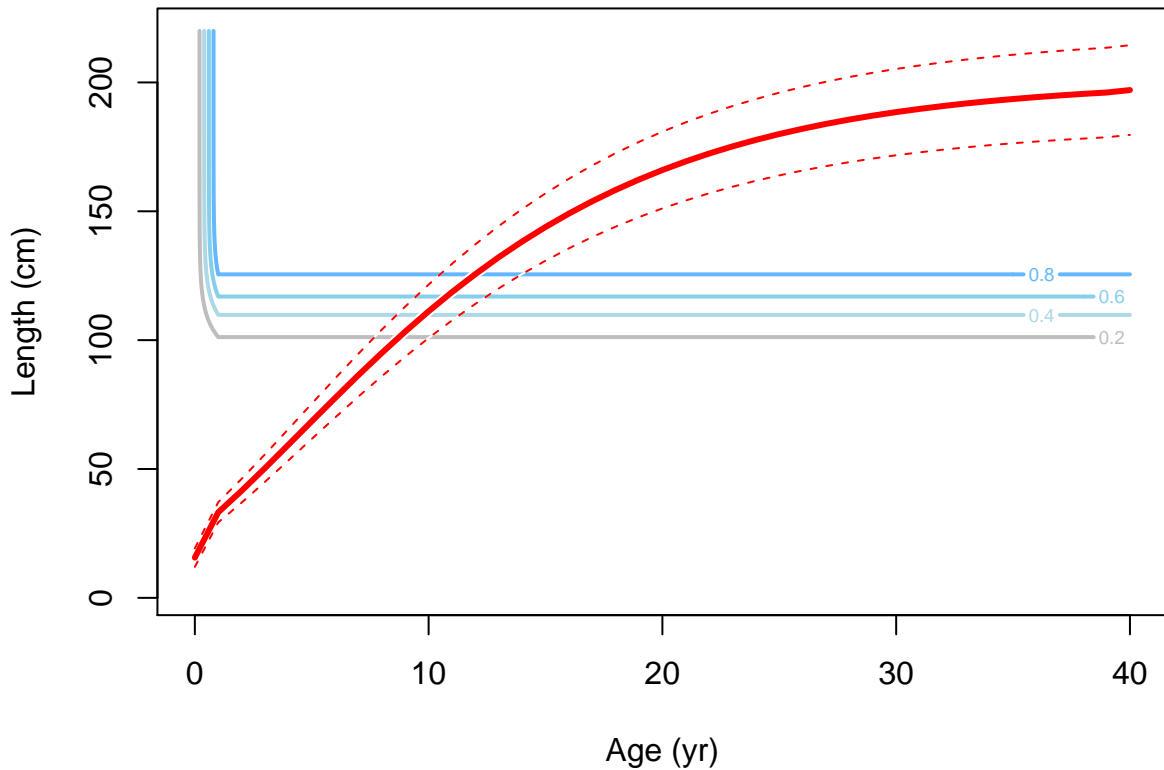
Female ending year selectivity and growth for F17-LL_C_w



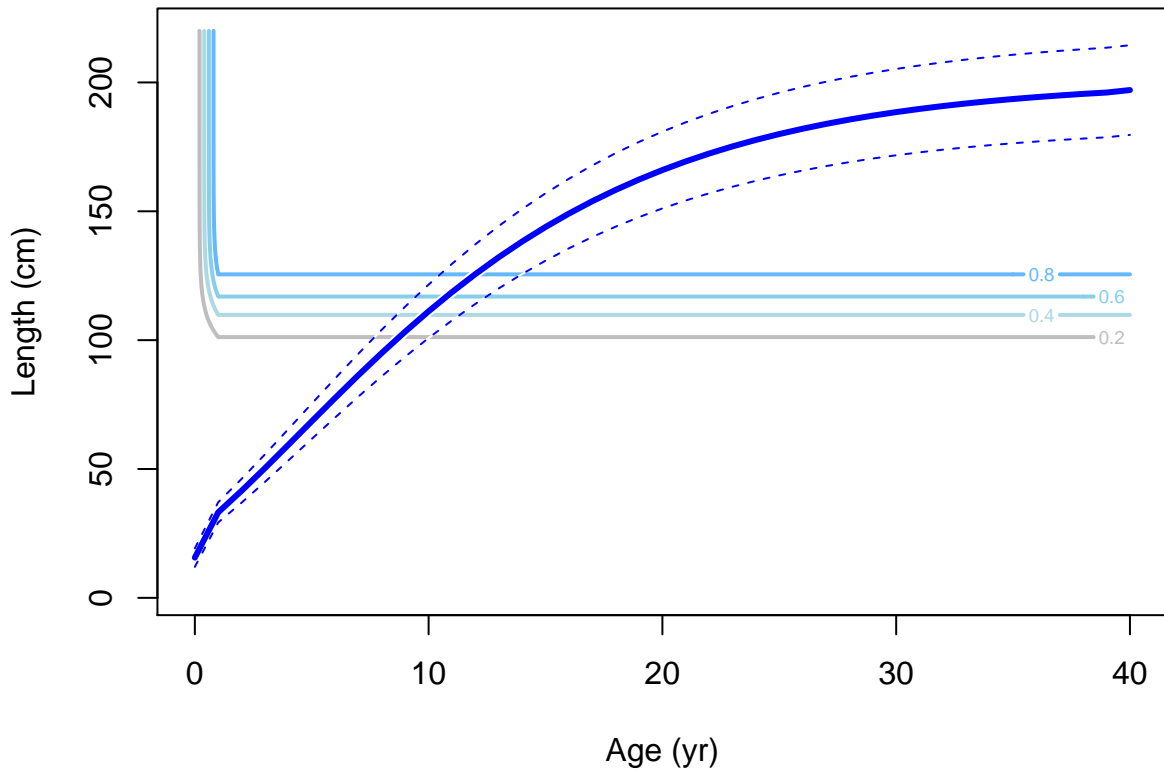
Male ending year selectivity and growth for F17-LL_C_w



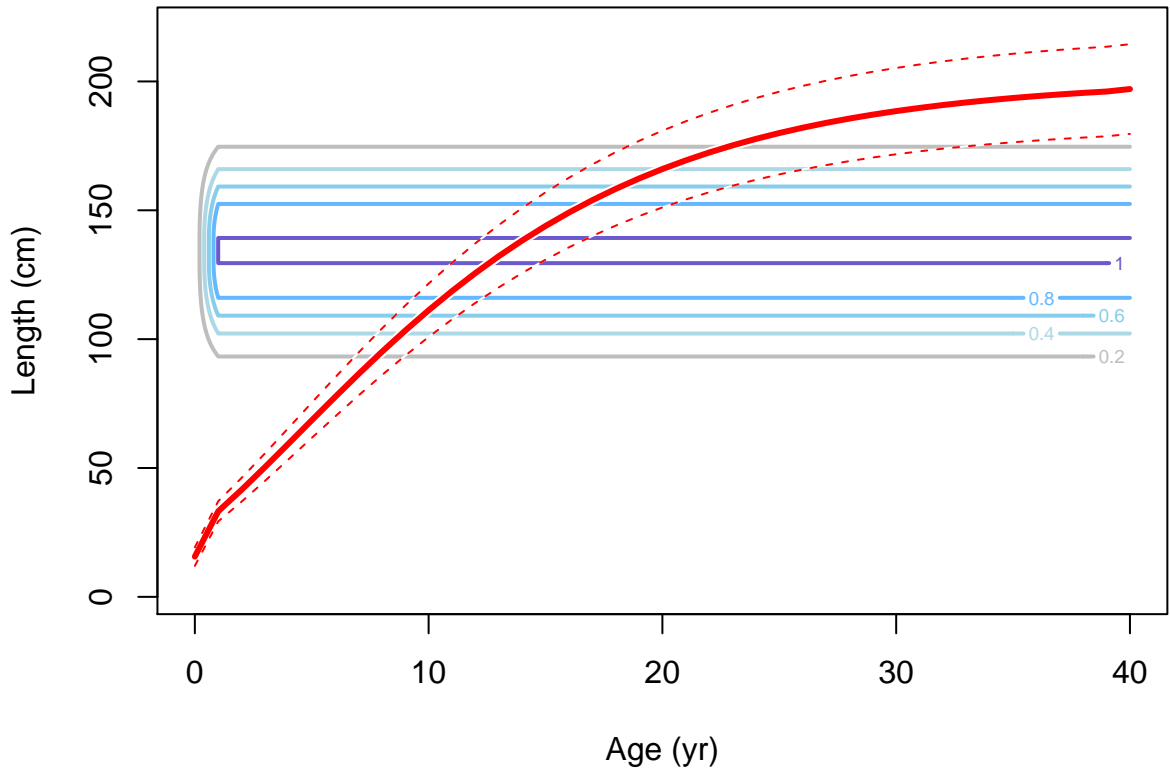
Female ending year selectivity and growth for F18-LL_S_w



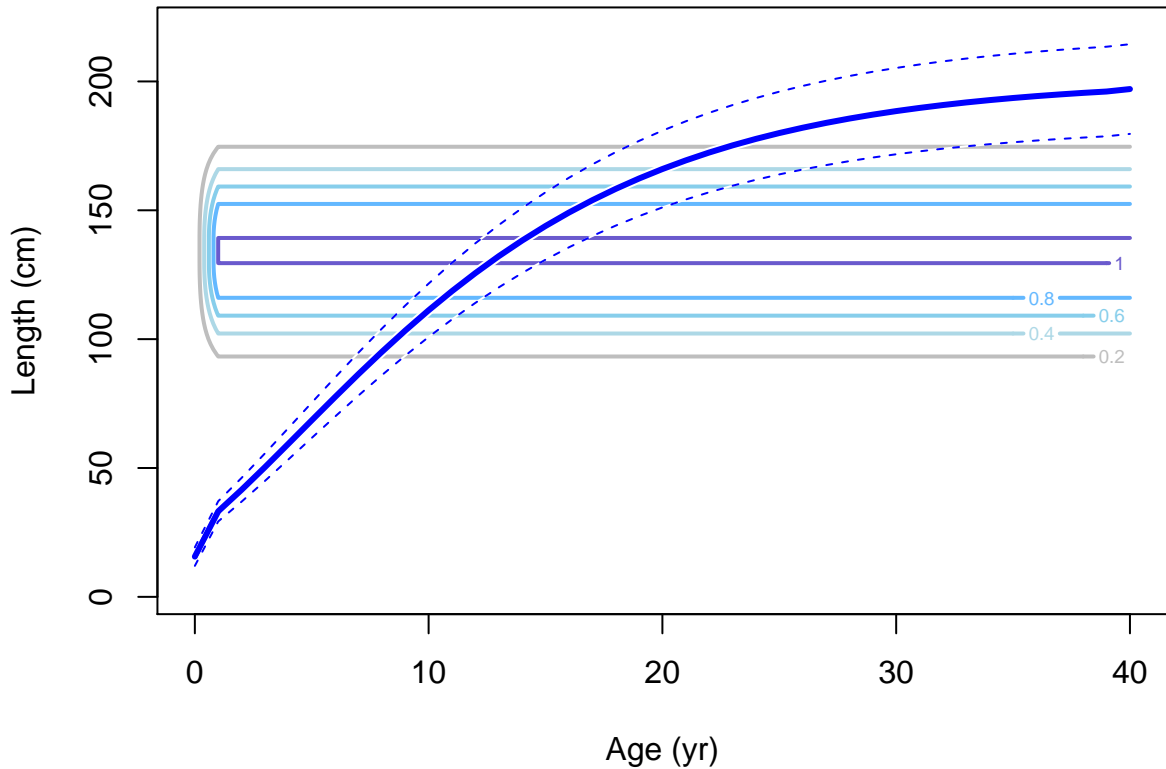
Male ending year selectivity and growth for F18-LL_S_w



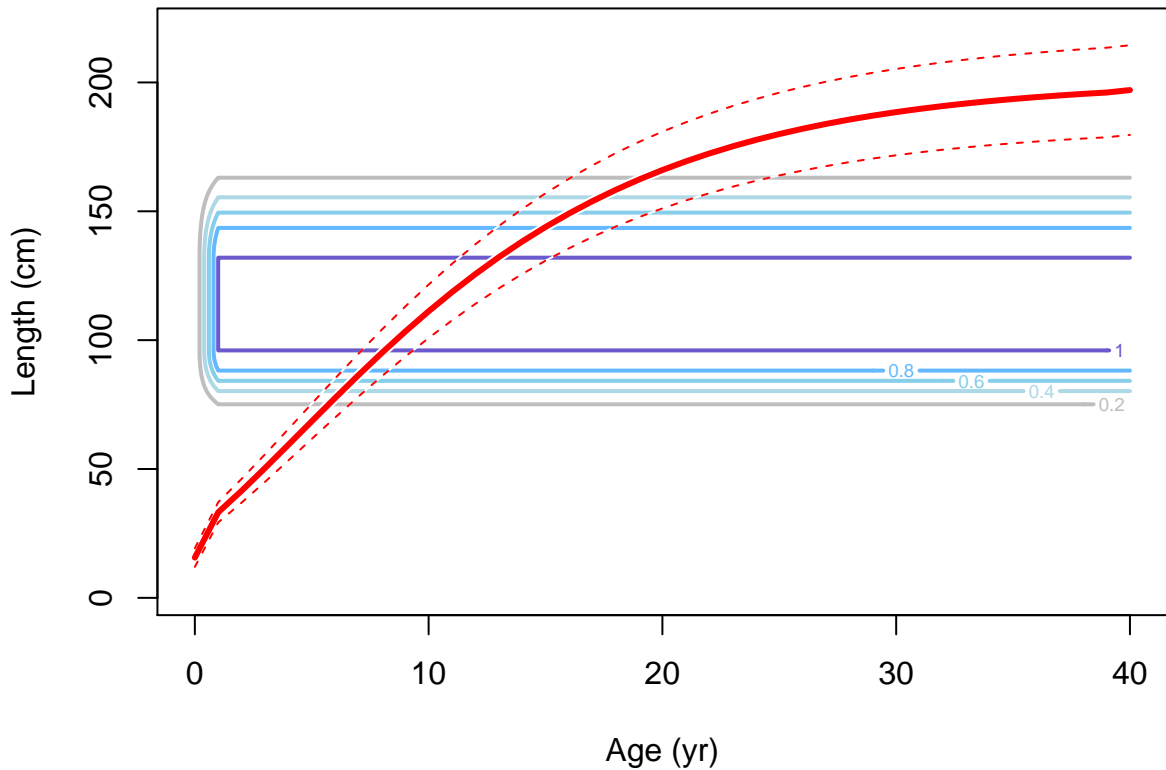
Female ending year selectivity and growth for F19-LL_I_w



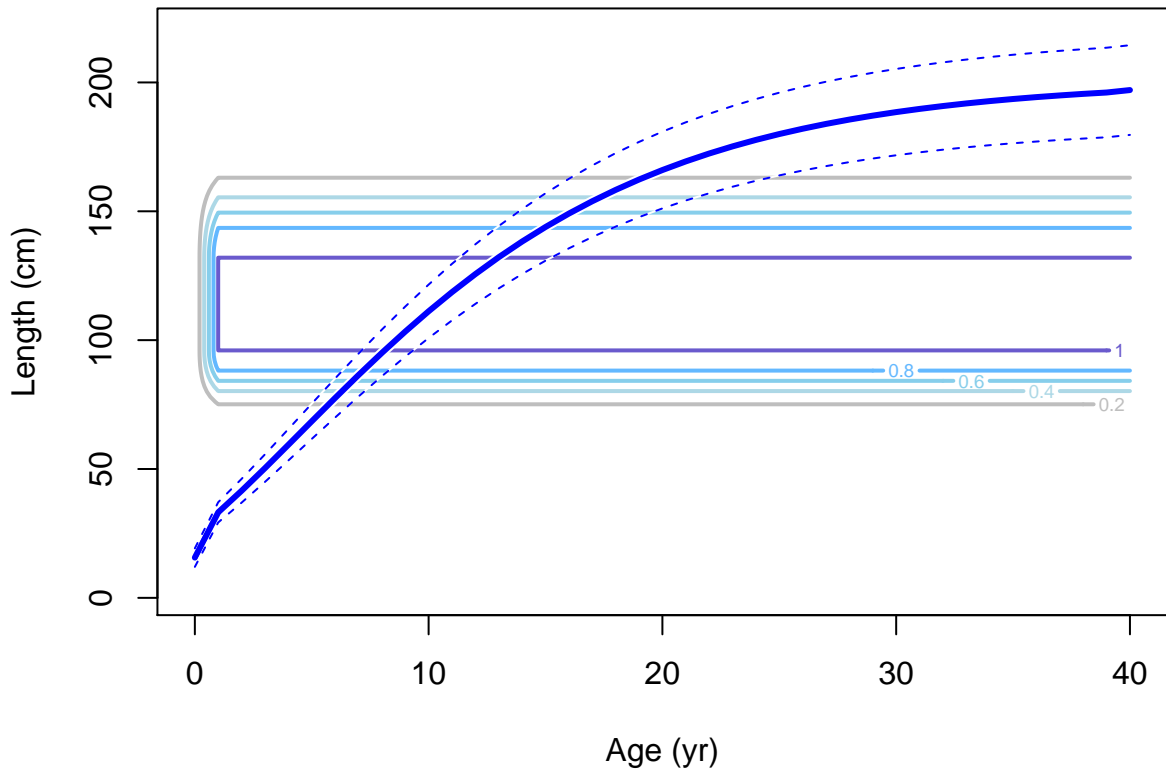
Male ending year selectivity and growth for F19-LL_I_w



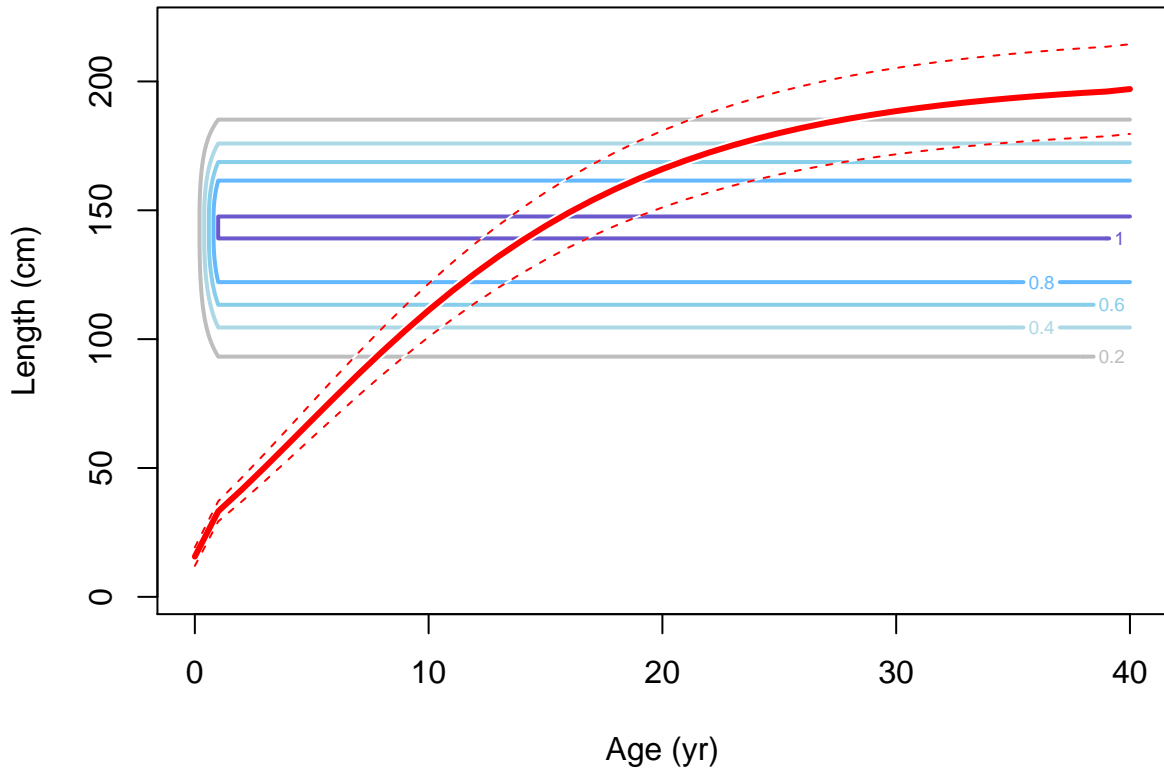
Female ending year selectivity and growth for S1-LLt_N_len



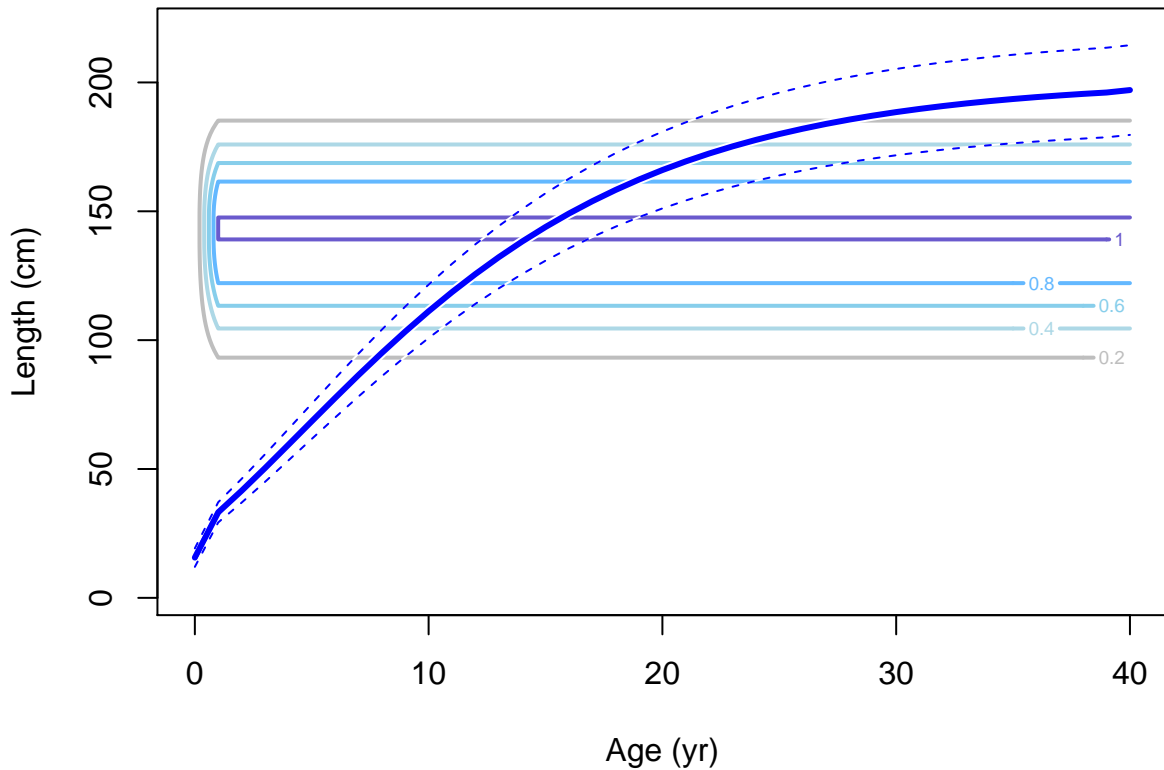
Male ending year selectivity and growth for S1-LLt_N_len



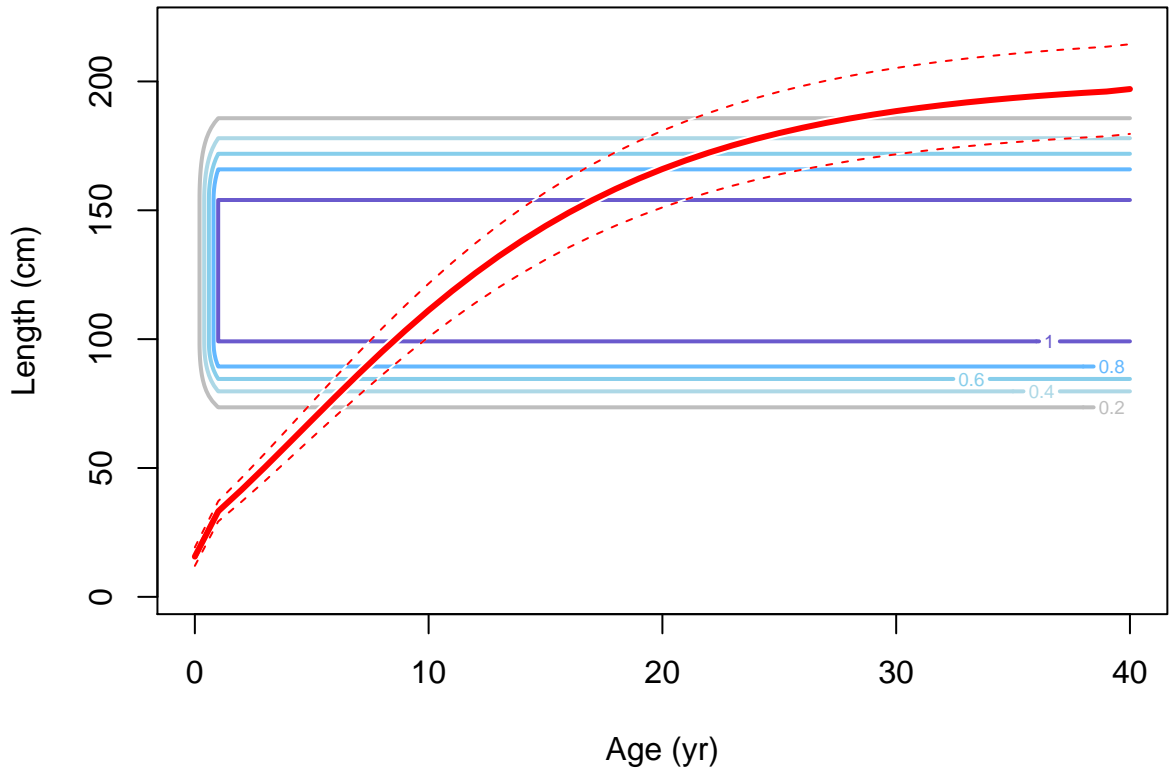
Female ending year selectivity and growth for S2-LLt_C_len



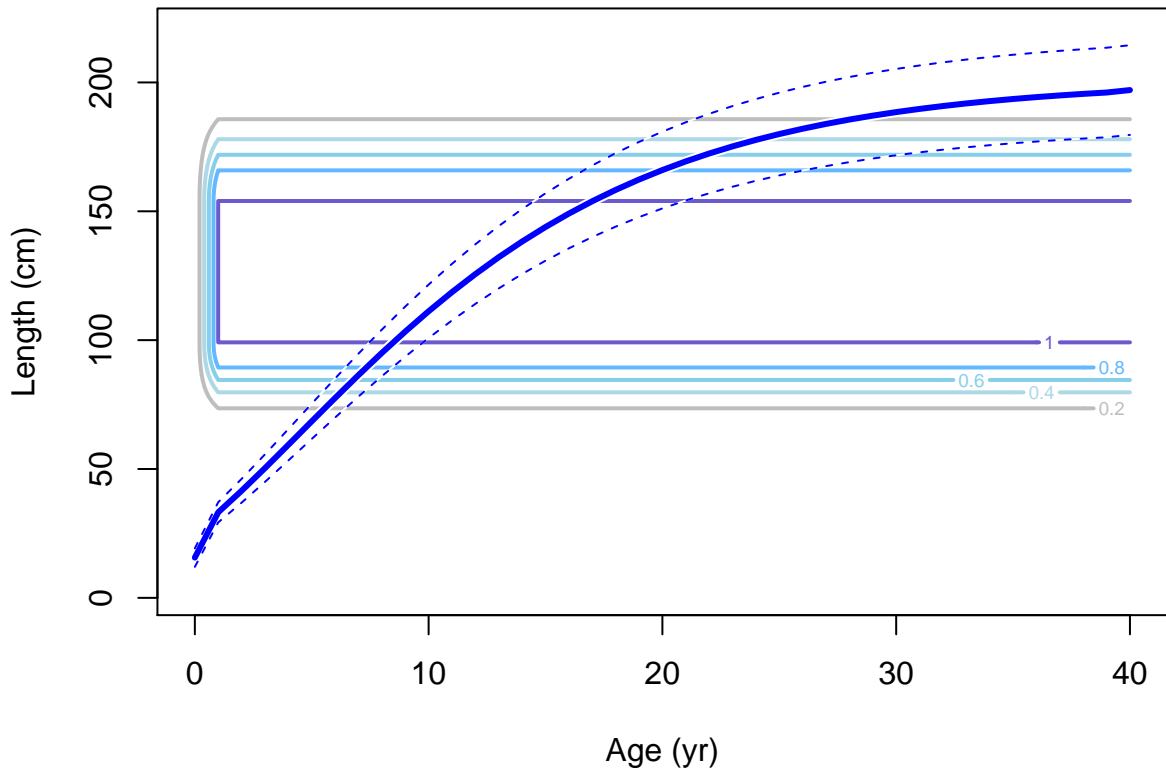
Male ending year selectivity and growth for S2-LLt_C_len



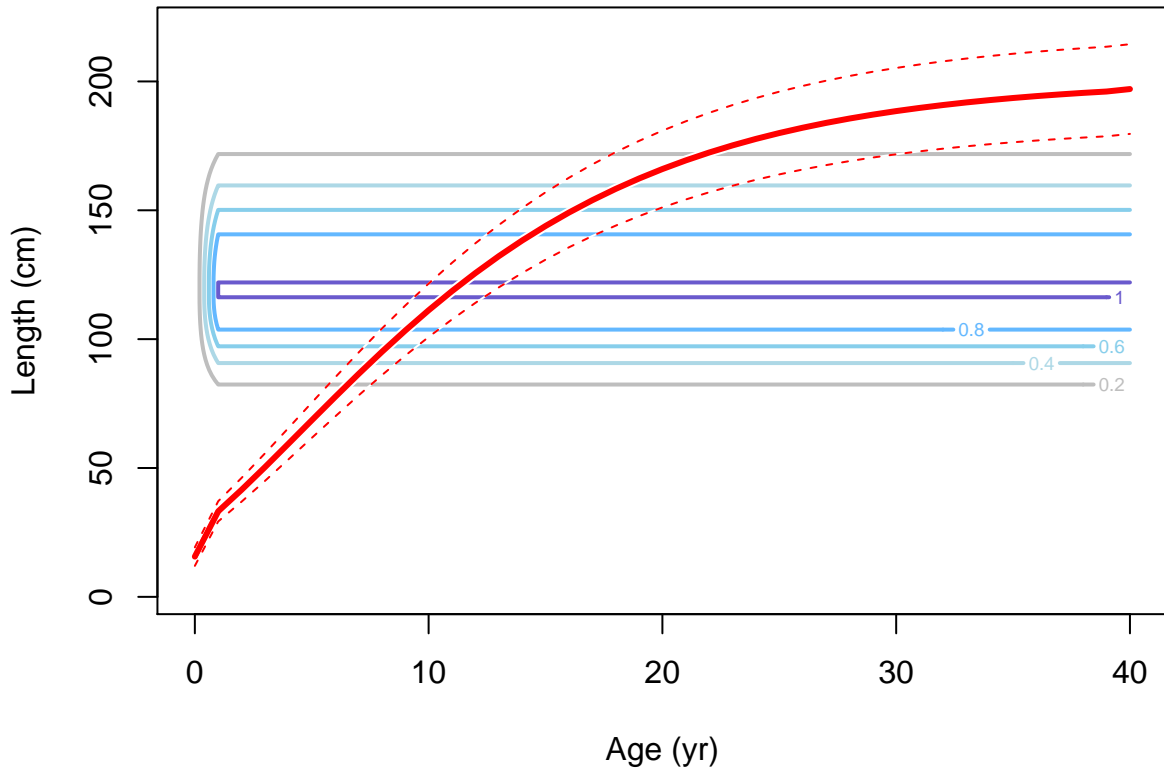
Female ending year selectivity and growth for S3-LLt_S_len



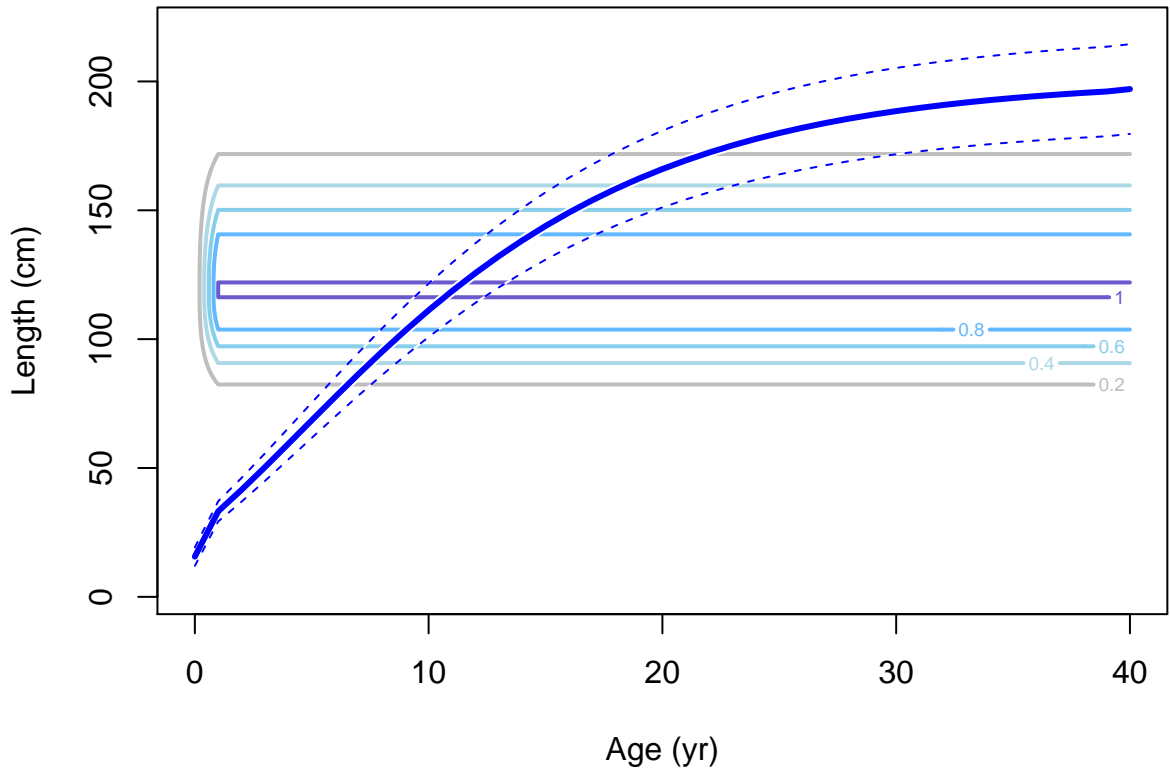
Male ending year selectivity and growth for S3-LLt_S_len



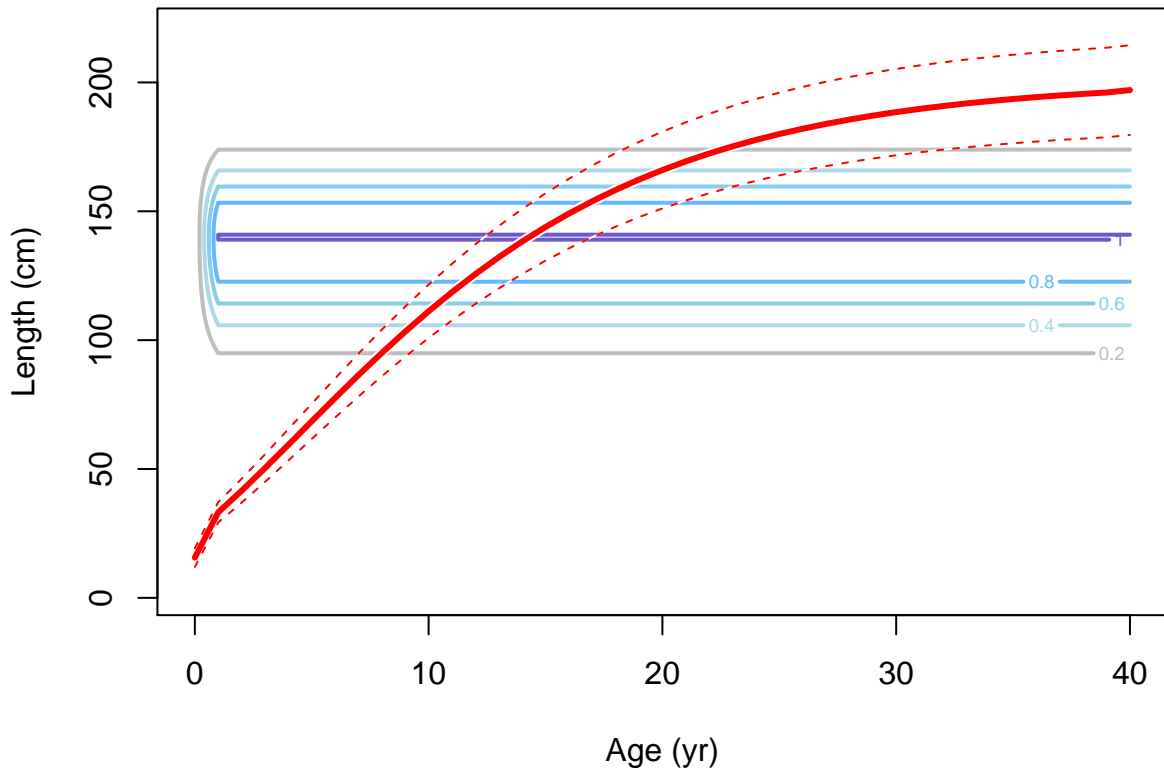
Female ending year selectivity and growth for S4-LLt_I_len



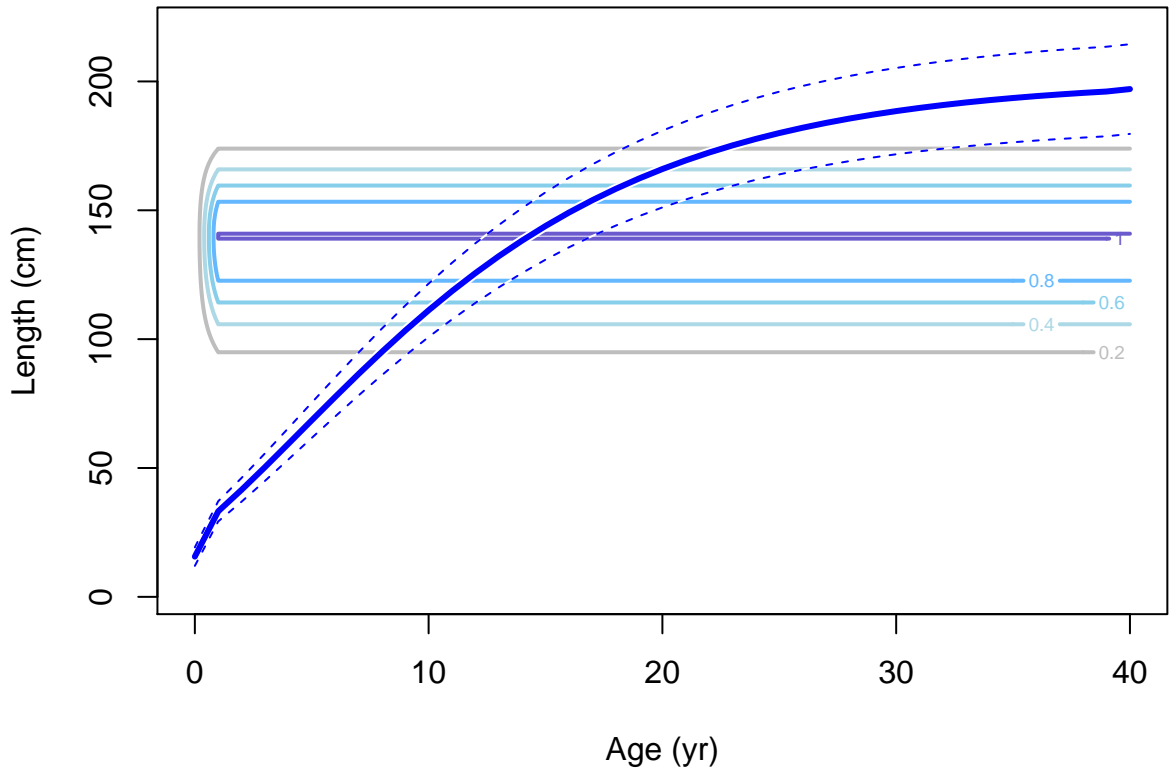
Male ending year selectivity and growth for S4-LLt_I_len



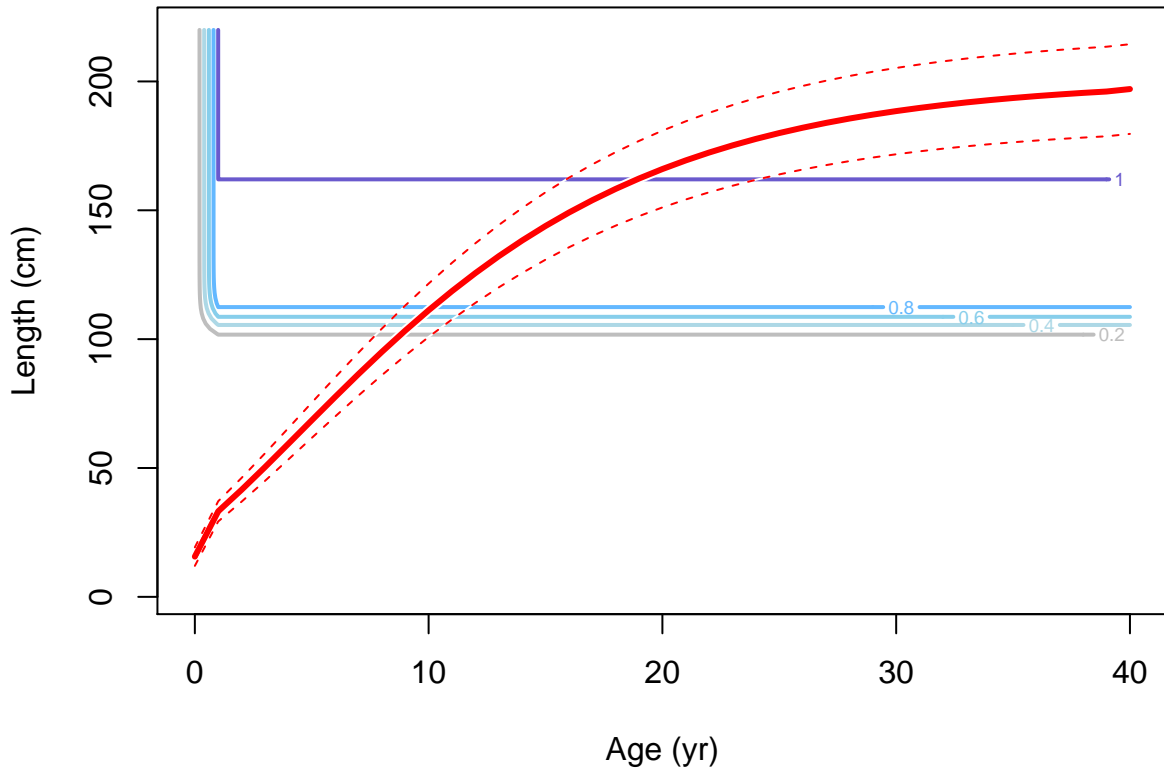
Female ending year selectivity and growth for S5-LLc_N_w



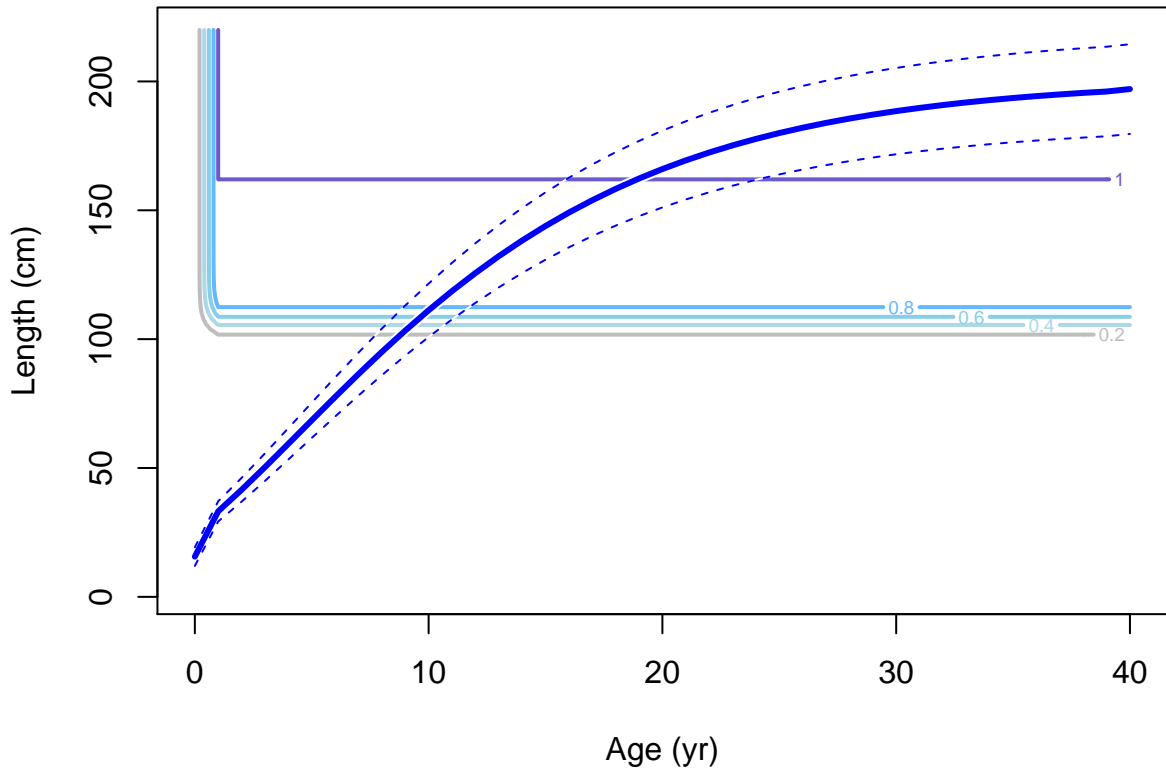
Male ending year selectivity and growth for S5-LLc_N_w



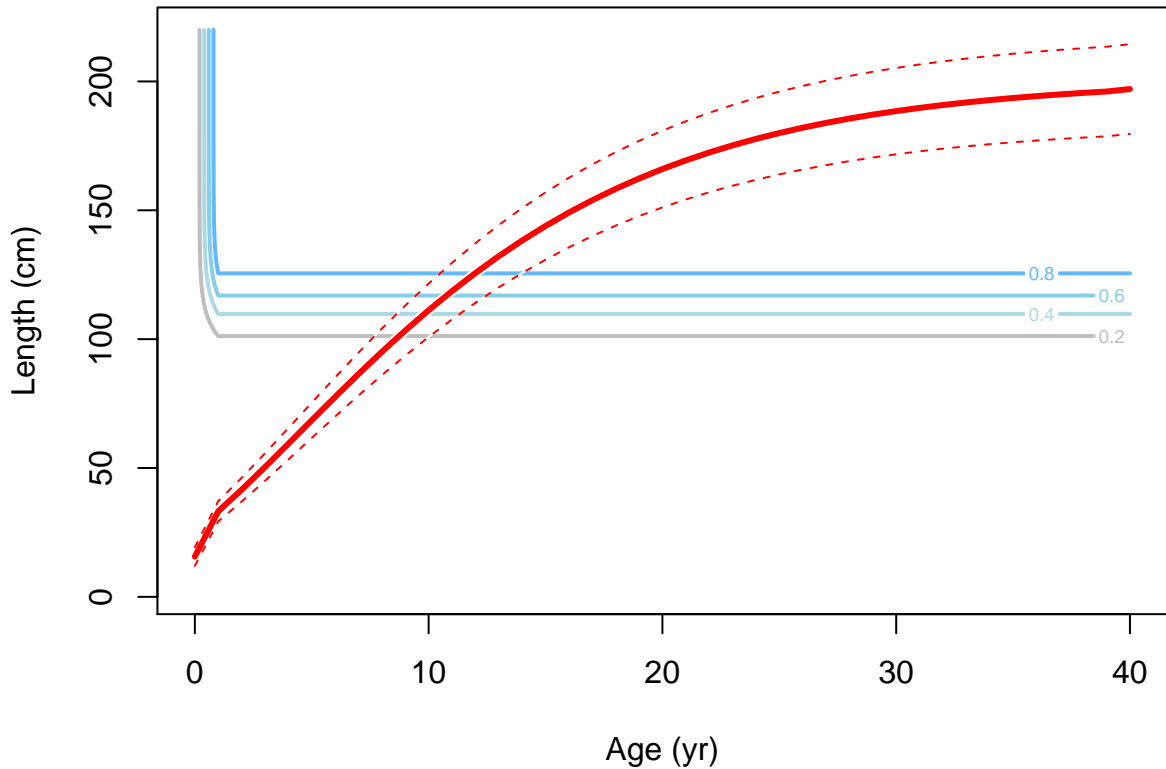
Female ending year selectivity and growth for S6-LLc_C_w



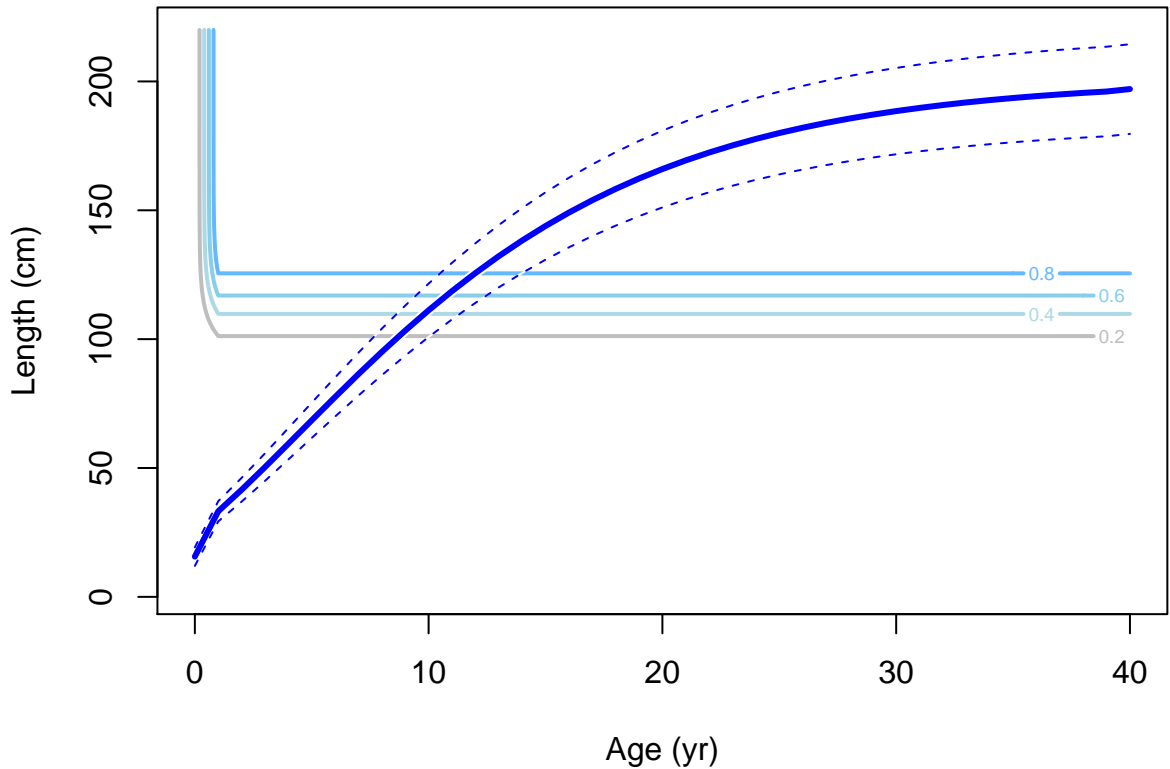
Male ending year selectivity and growth for S6-LLc_C_w



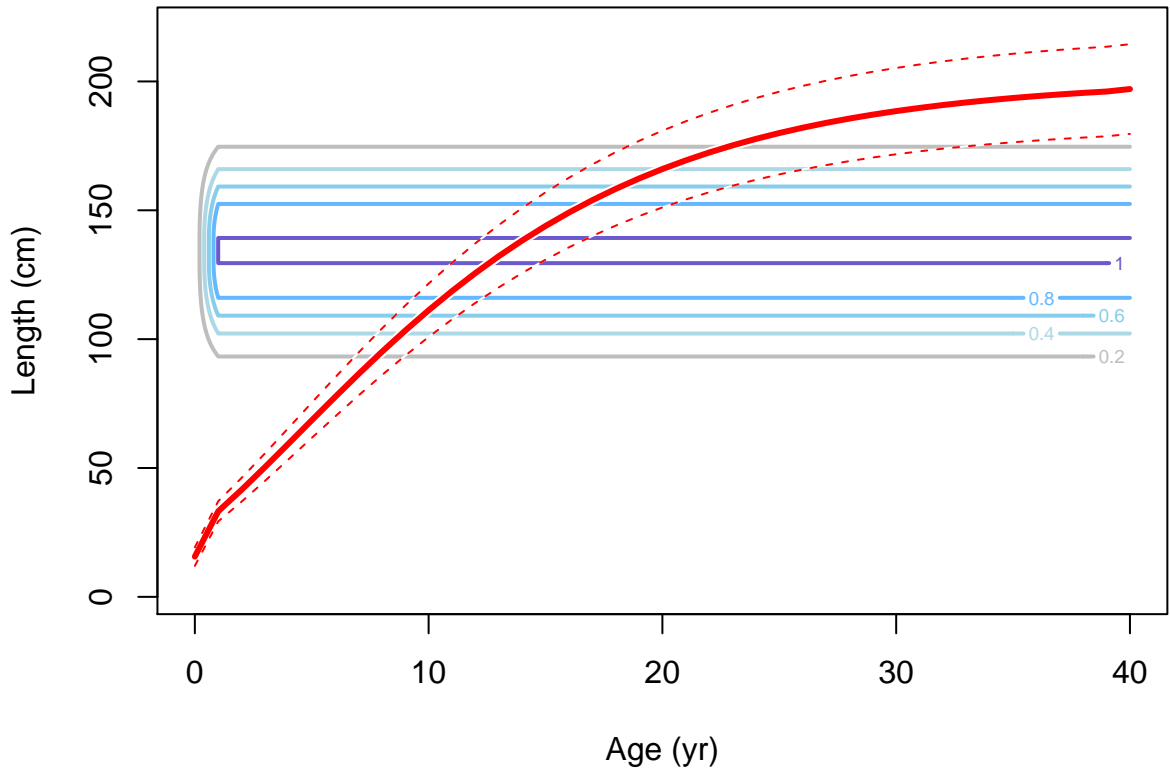
Female ending year selectivity and growth for S7-LLc_S_w



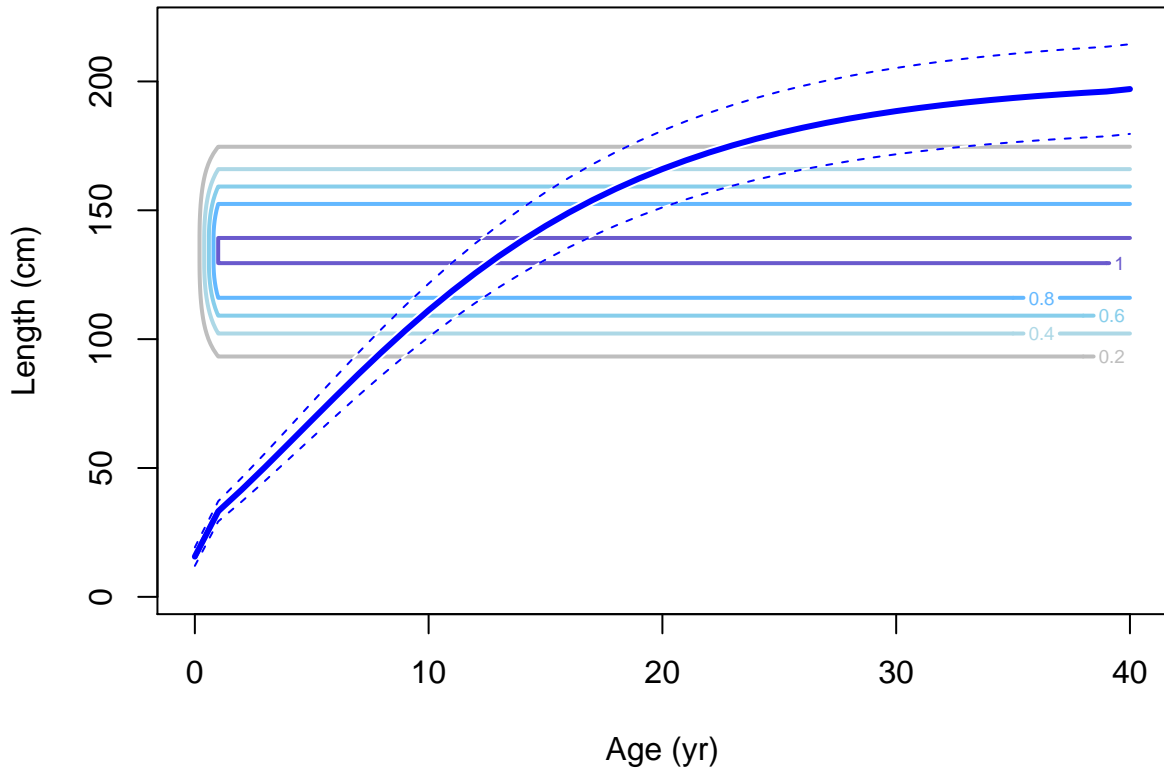
Male ending year selectivity and growth for S7-LLc_S_w



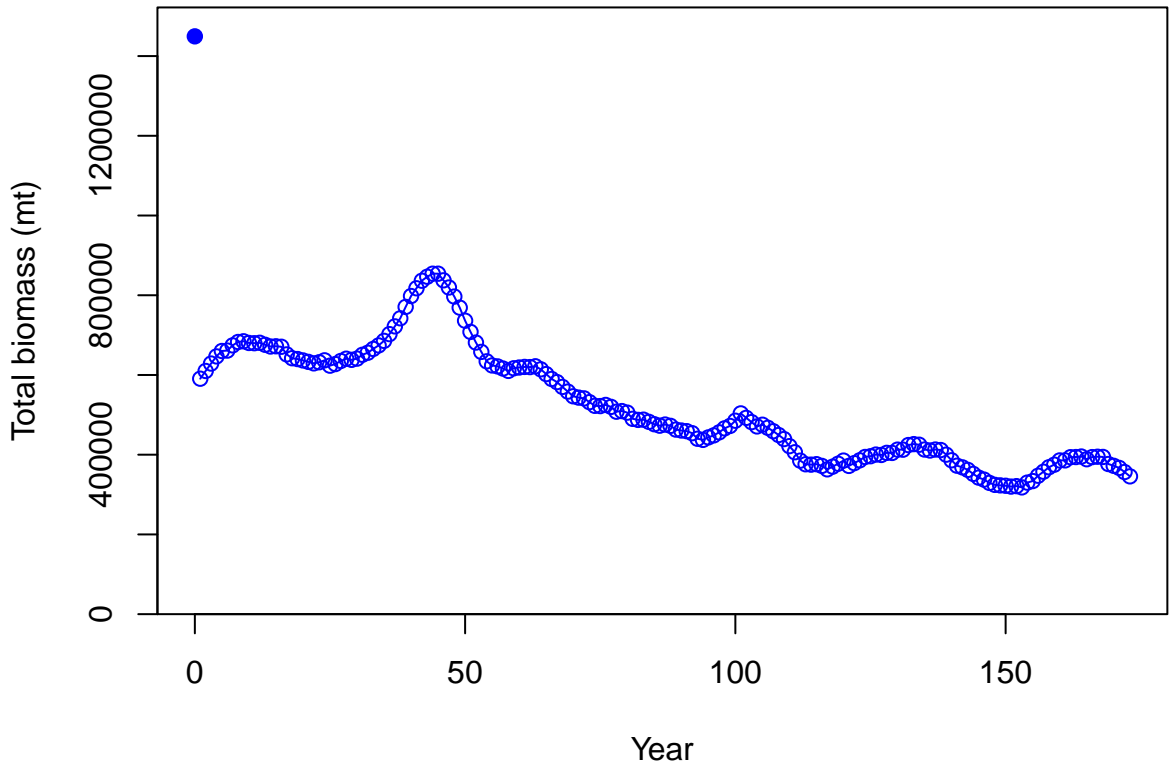
Female ending year selectivity and growth for S8-LLc_I_w



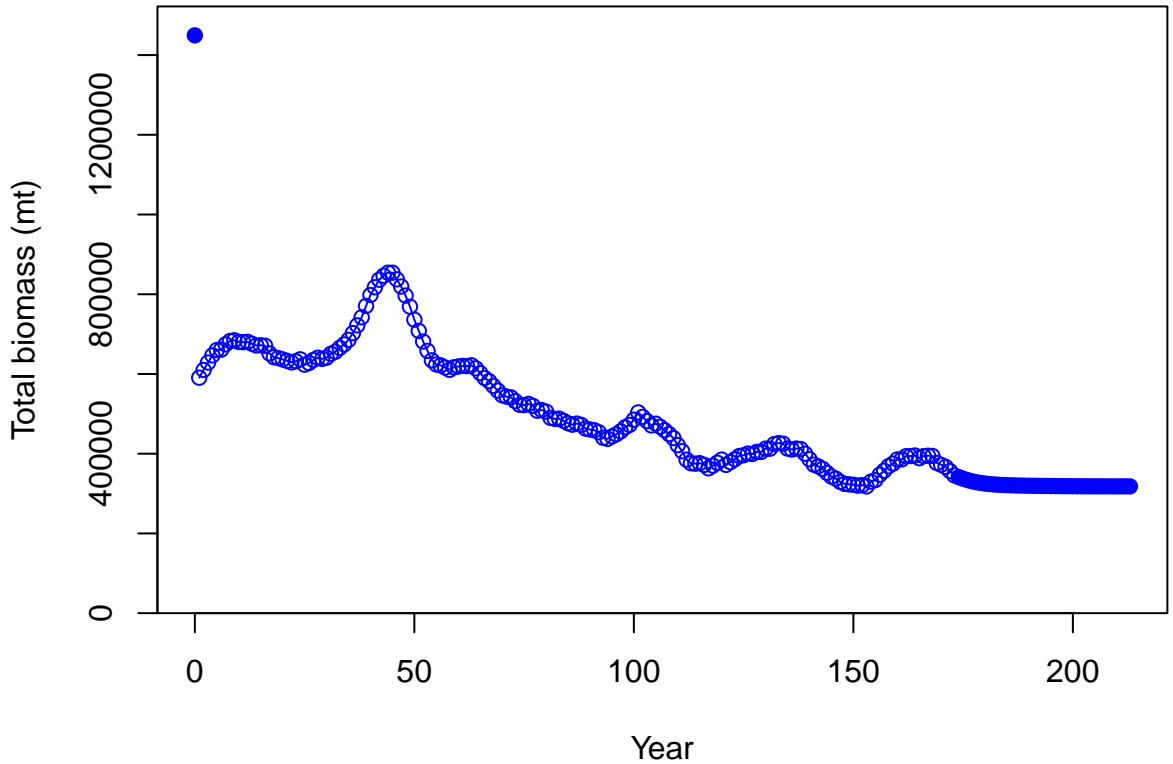
Male ending year selectivity and growth for S8-LLc_I_w



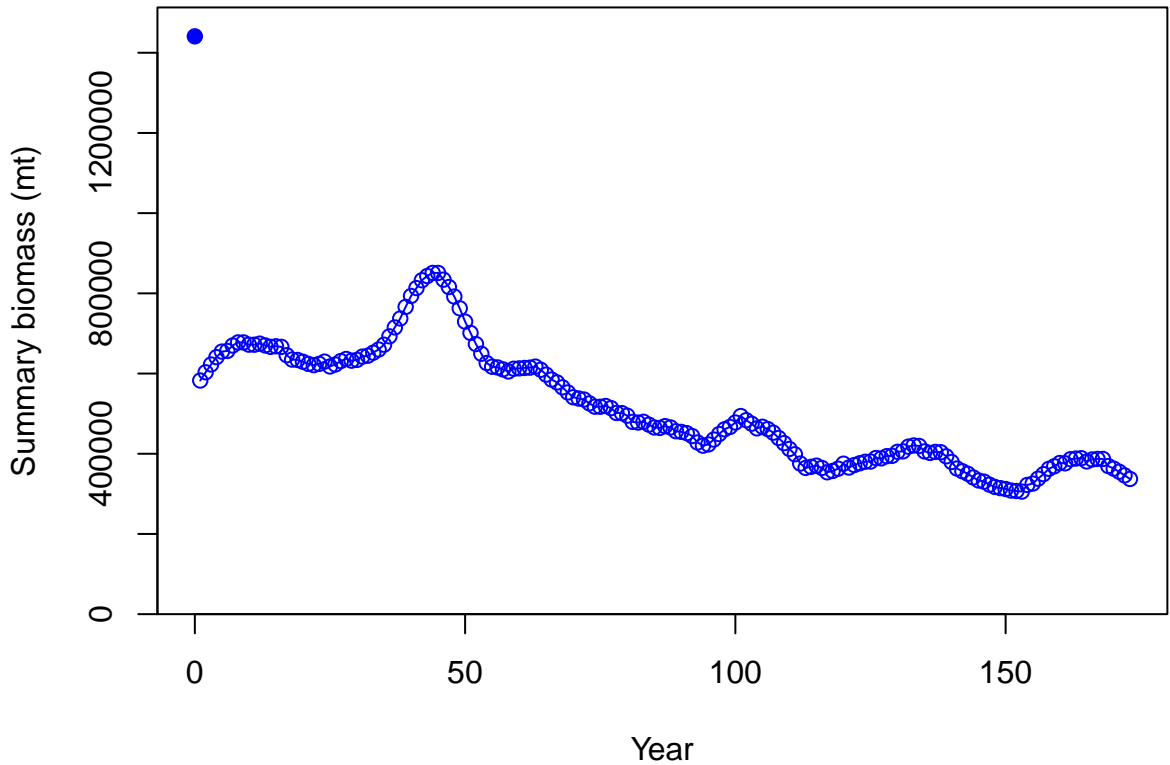
Total biomass (mt)



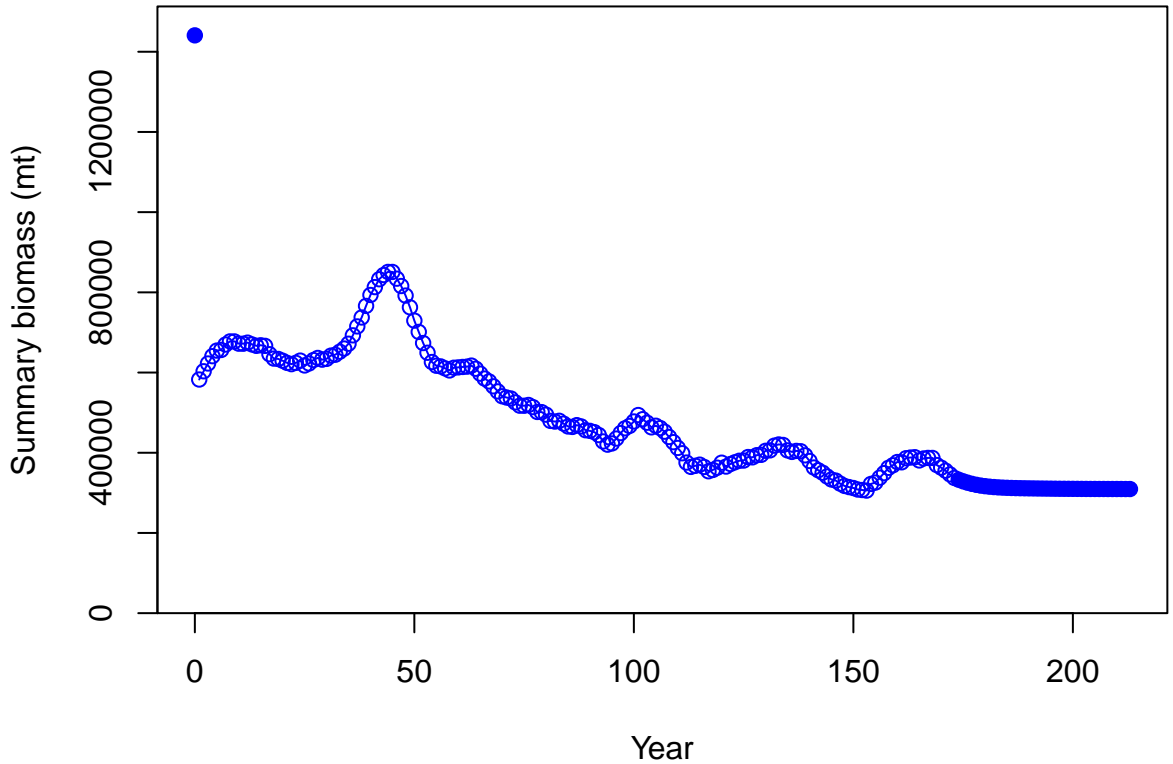
Total biomass (mt) with forecast



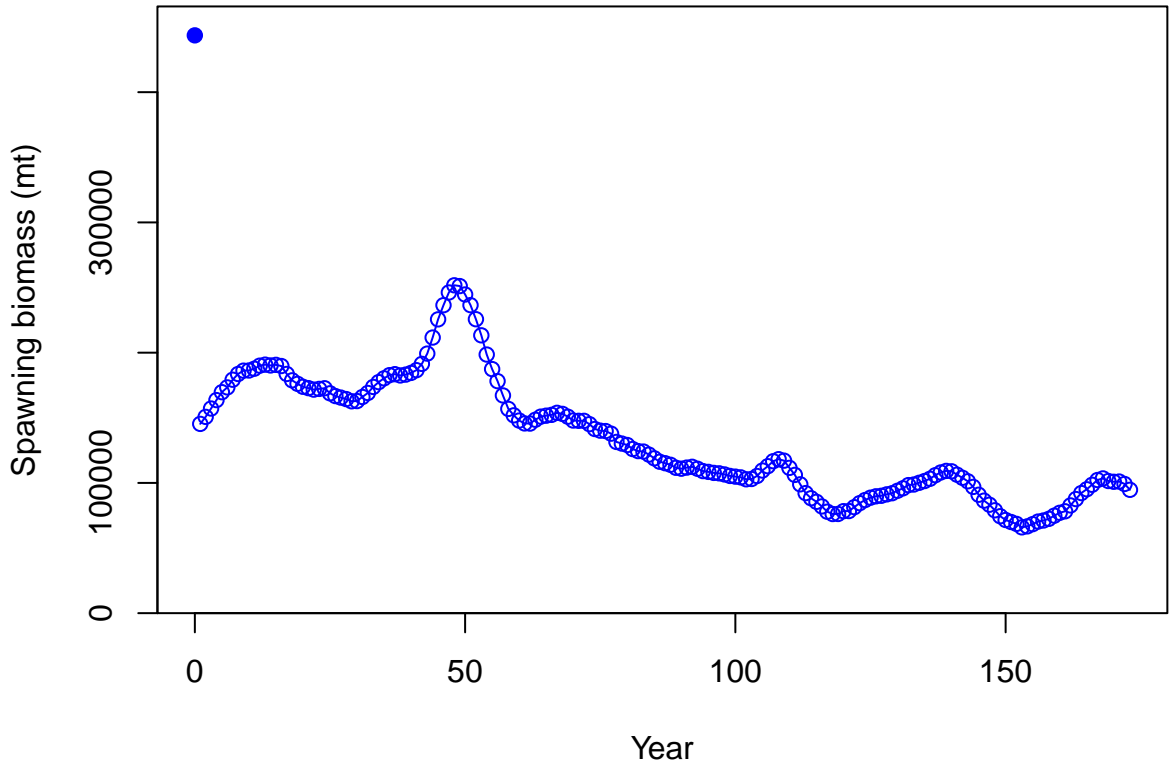
Summary biomass (mt)



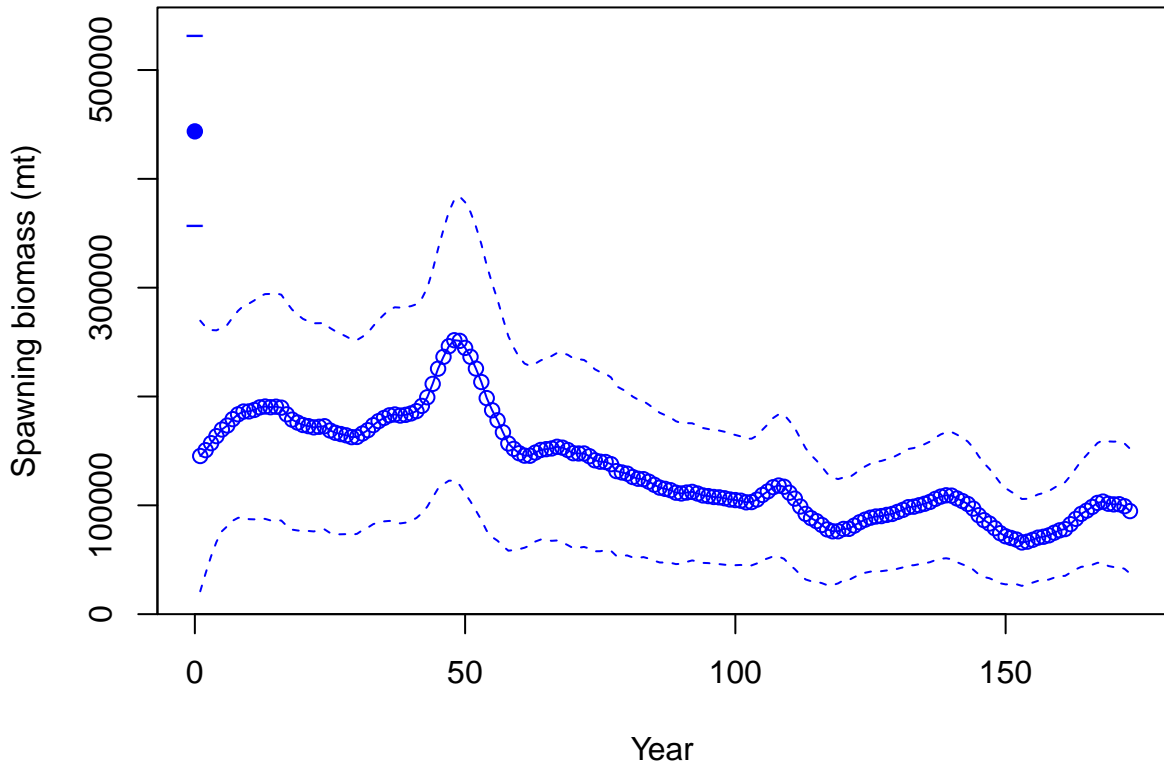
Summary biomass (mt) with forecast



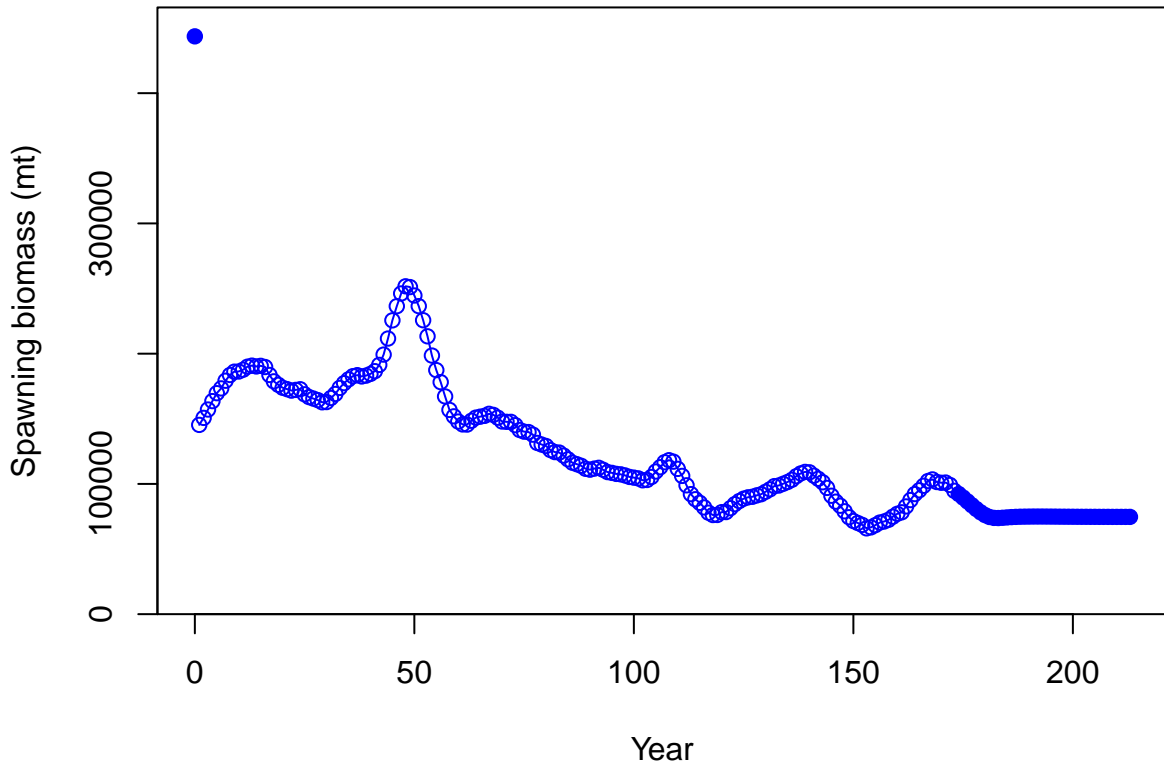
Spawning biomass (mt)



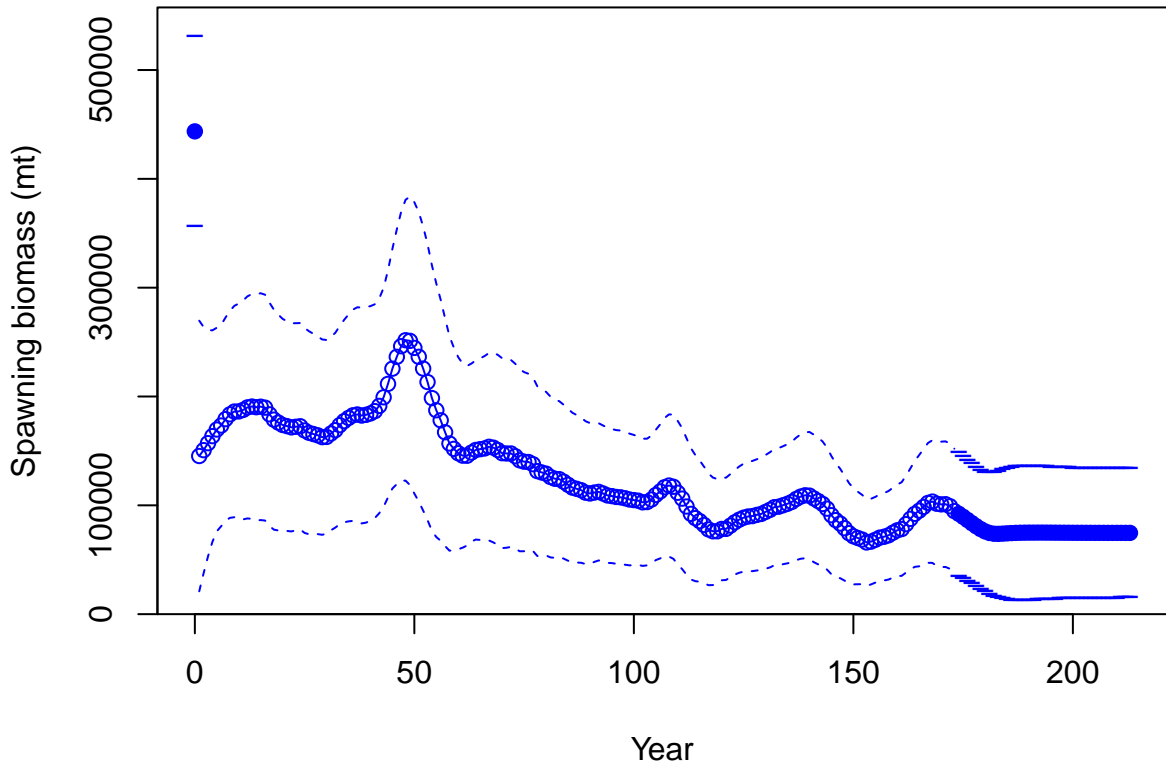
Spawning biomass (mt) with ~95% asymptotic intervals



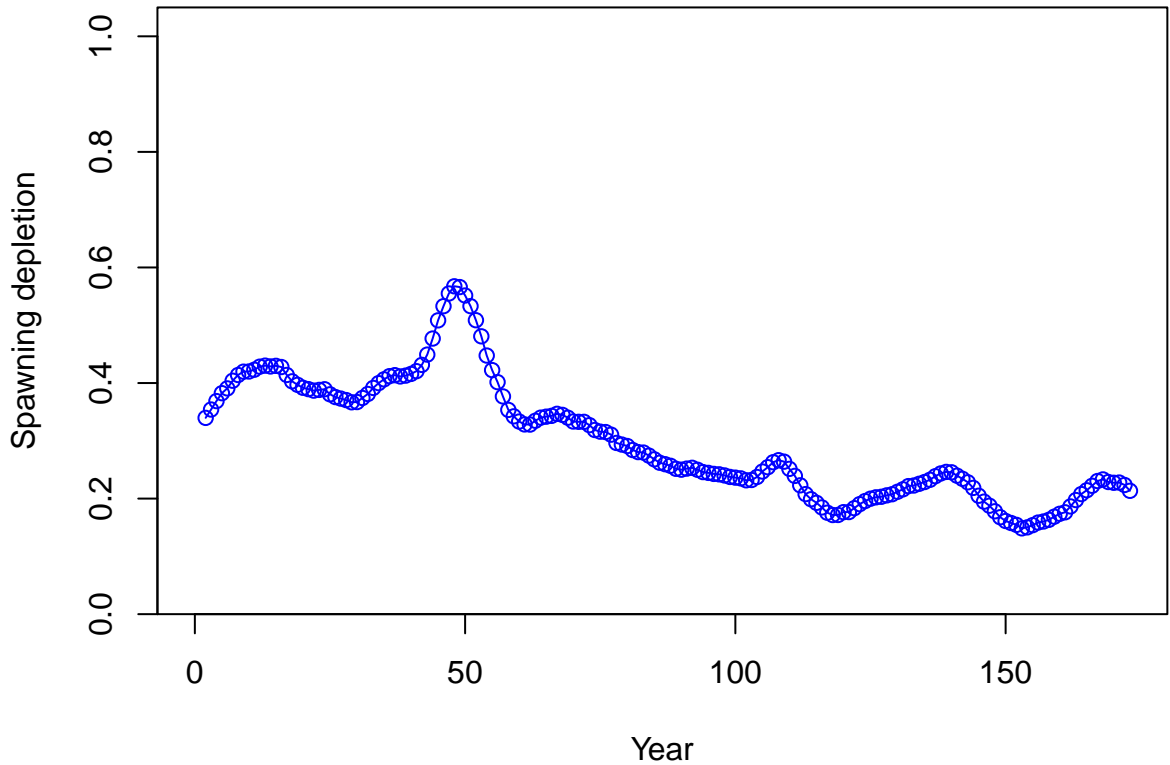
Spawning biomass (mt) with forecast



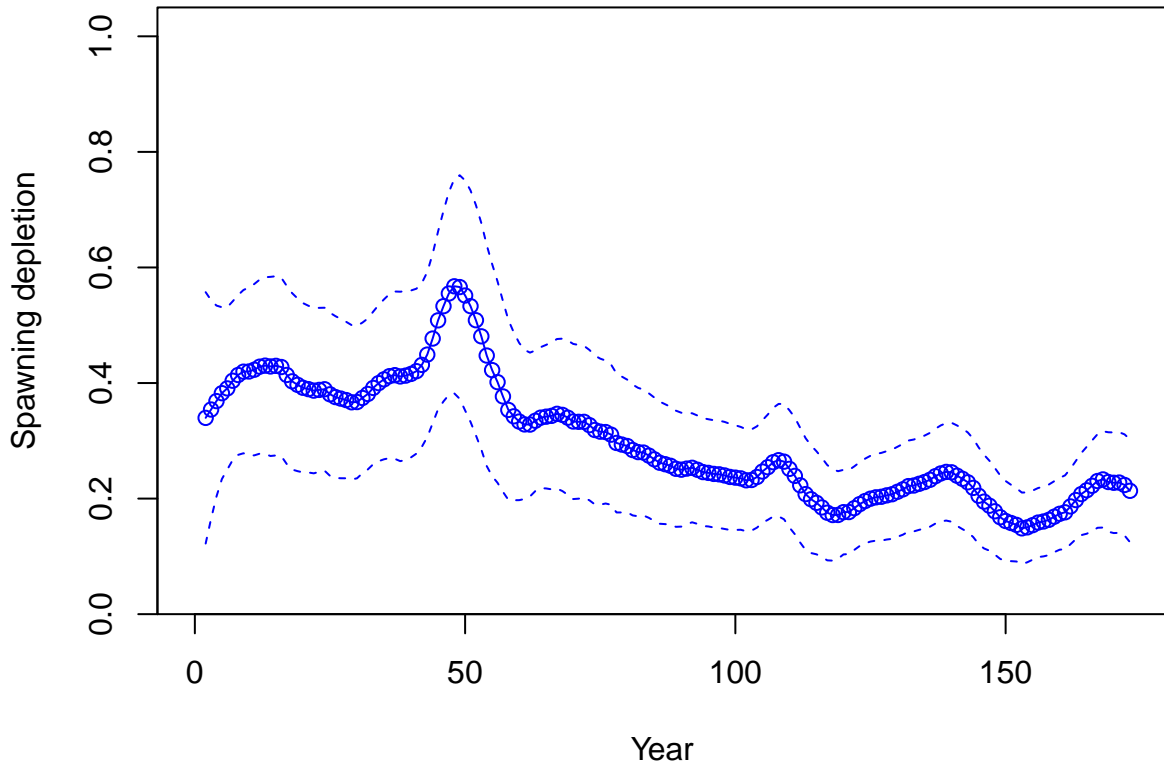
Spawning biomass (mt) with forecast with ~95% asymptotic intervals



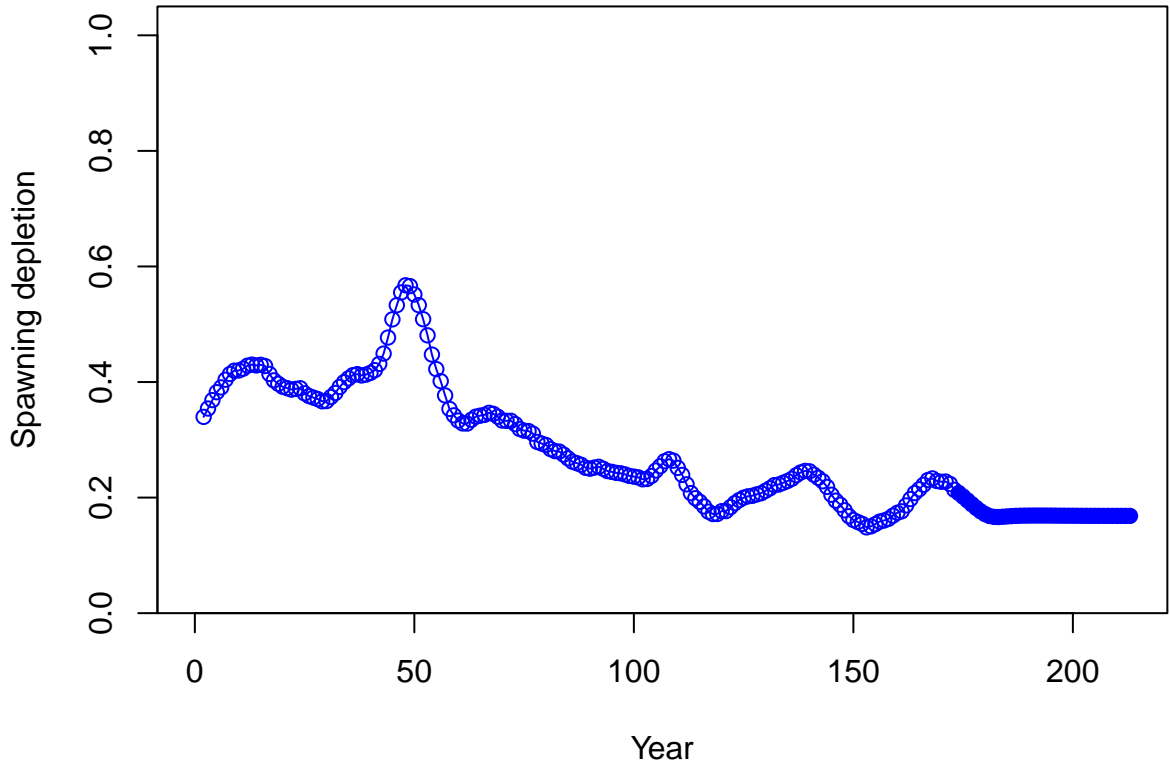
Spawning depletion



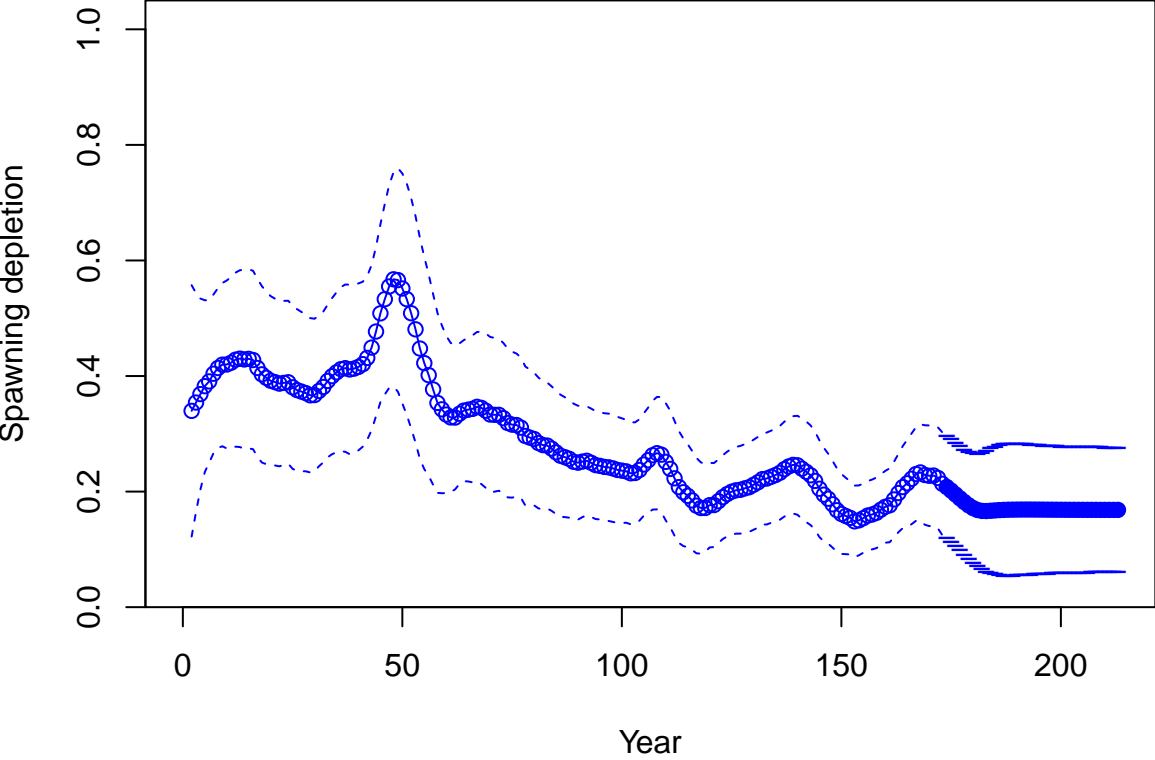
Spawning depletion with ~95% asymptotic intervals



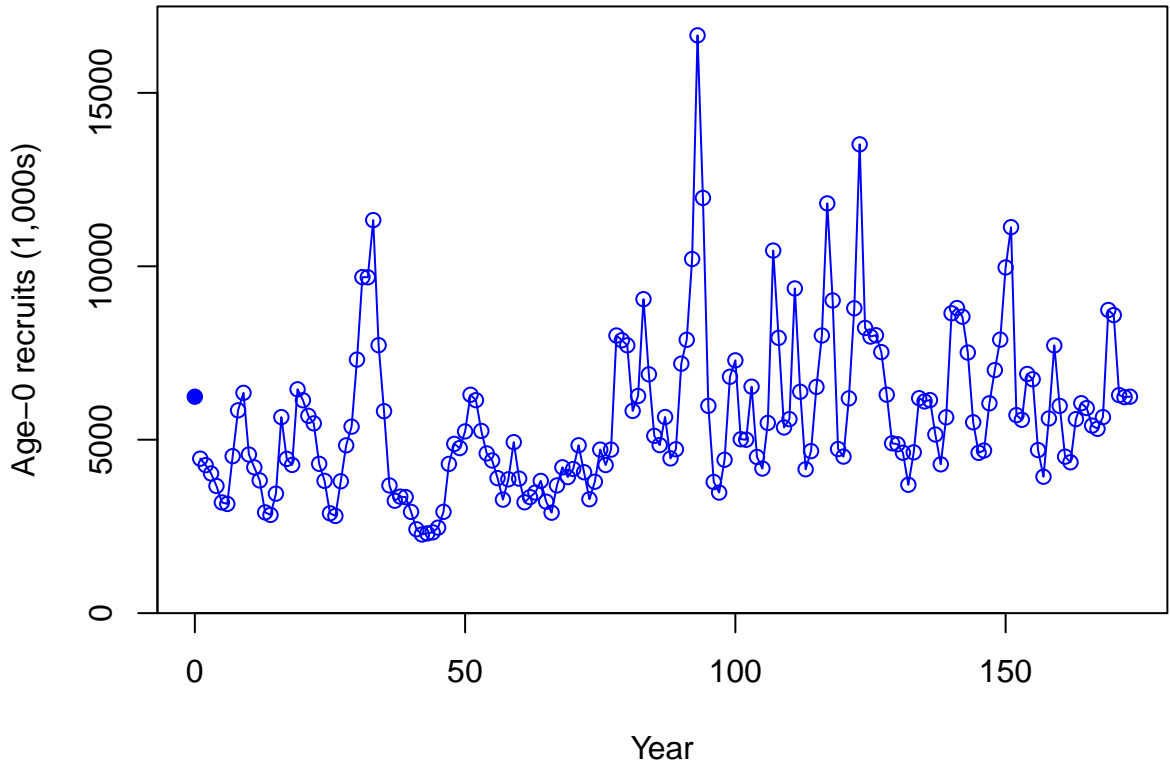
Spawning depletion with forecast



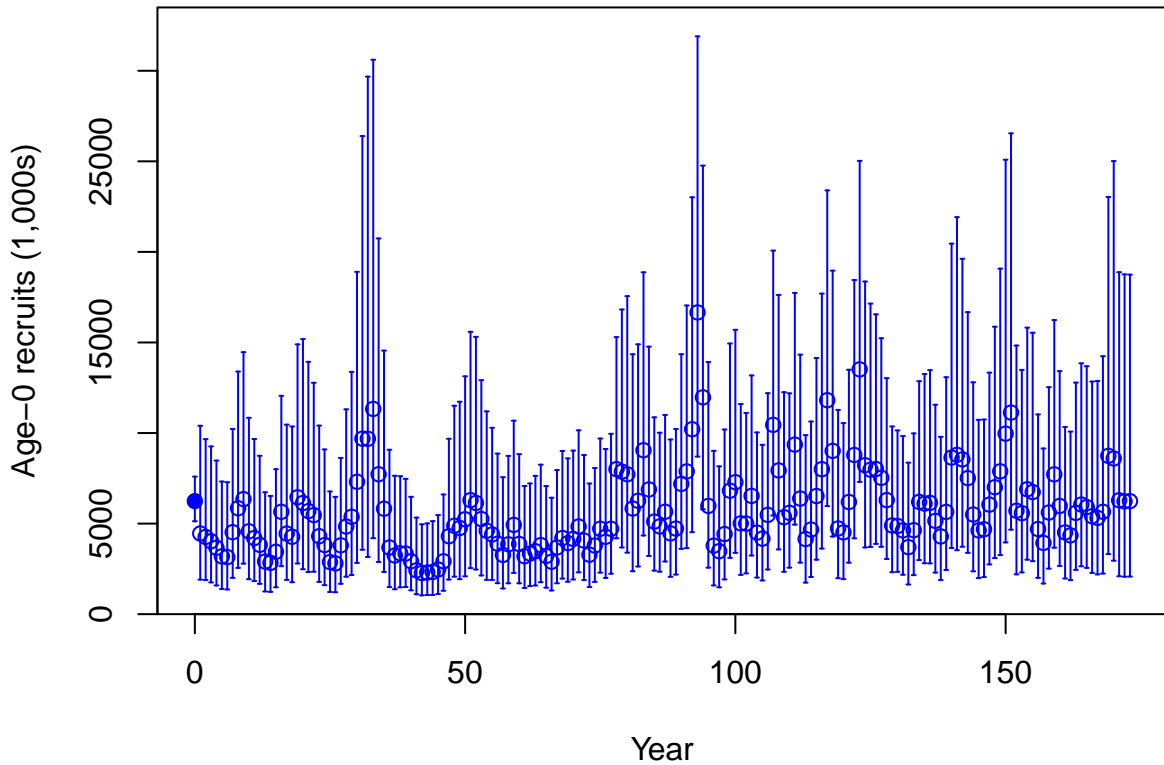
Spawning depletion with forecast with ~95% asymptotic intervals



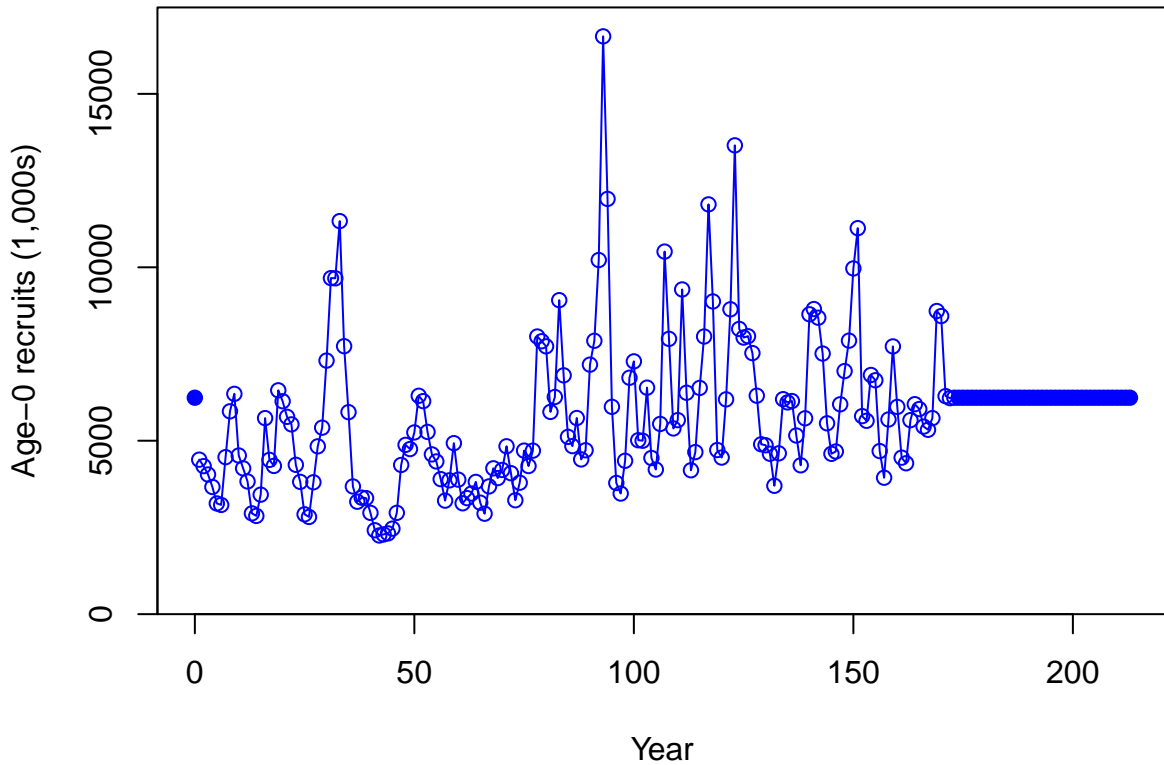
Age-0 recruits (1,000s)



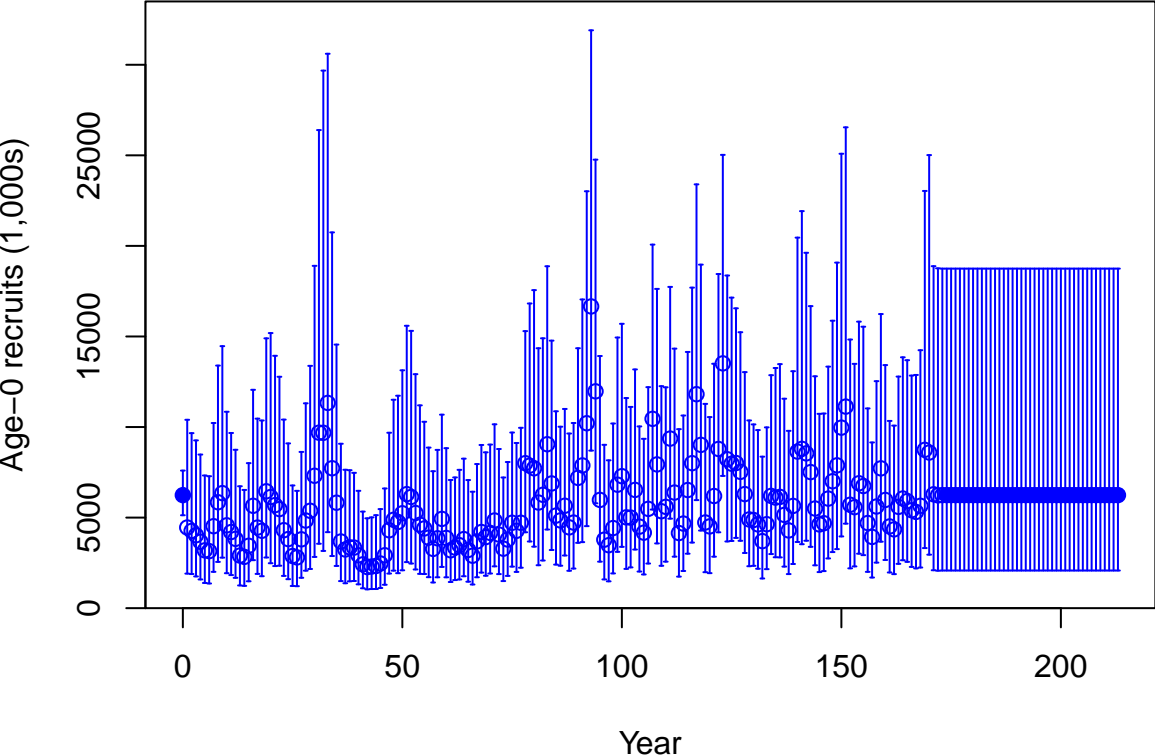
Age-0 recruits (1,000s) with ~95% asymptotic intervals



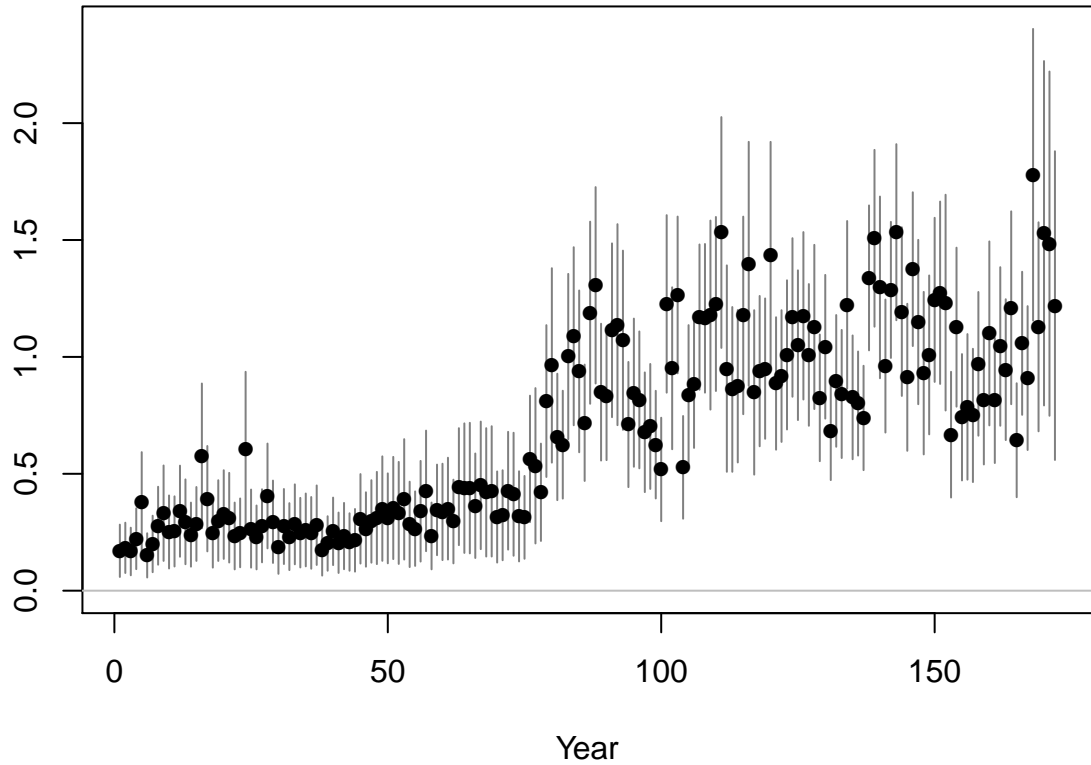
Age-0 recruits (1,000s) with forecast

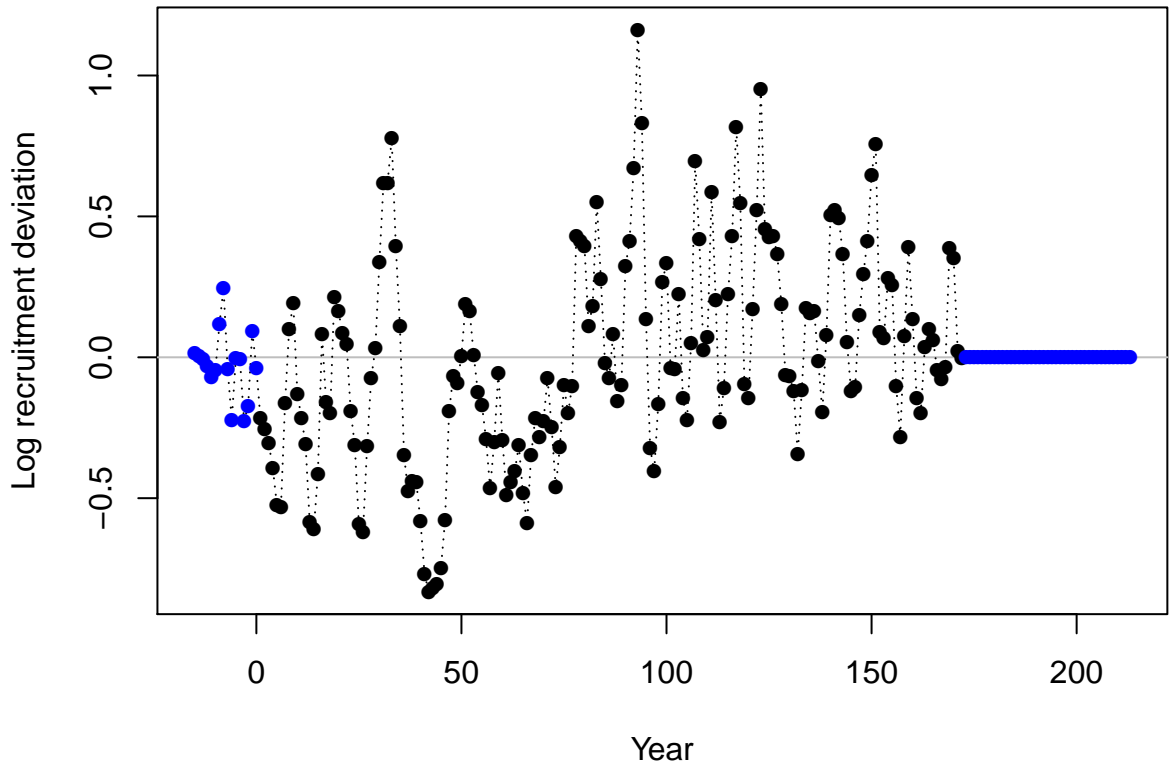


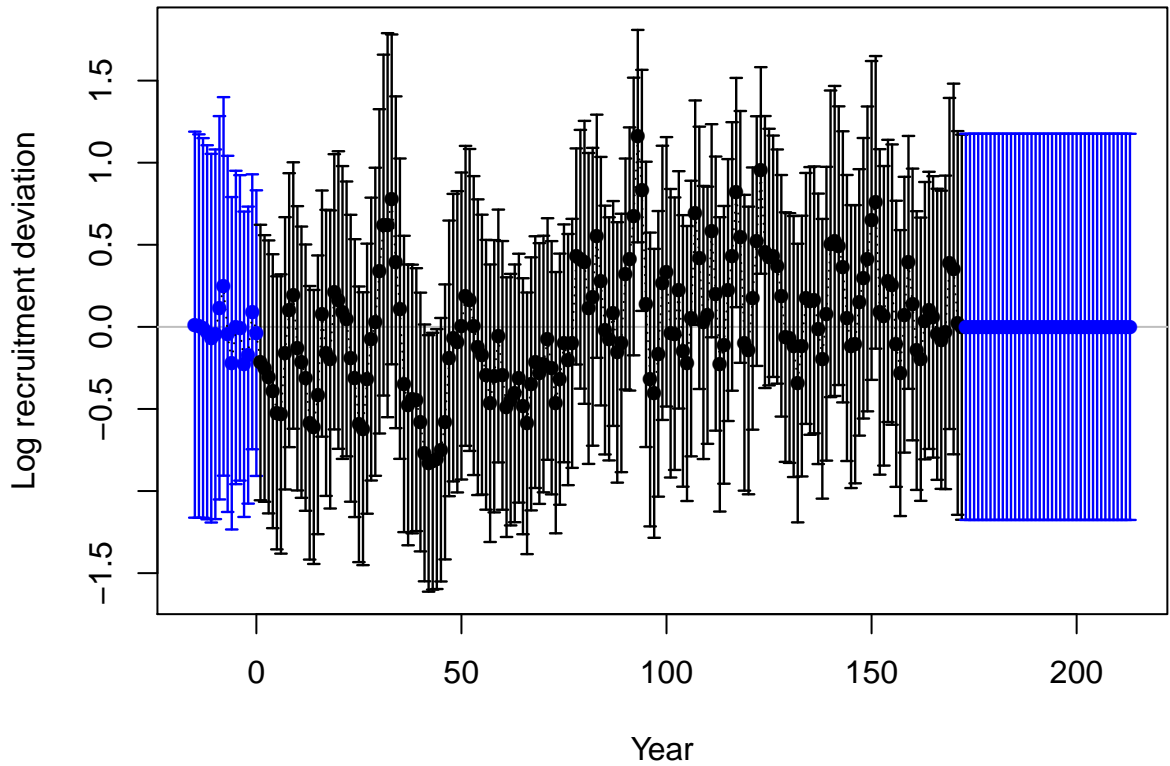
Age-0 recruits (1,000s) with forecast with ~95% asymptotic intervals



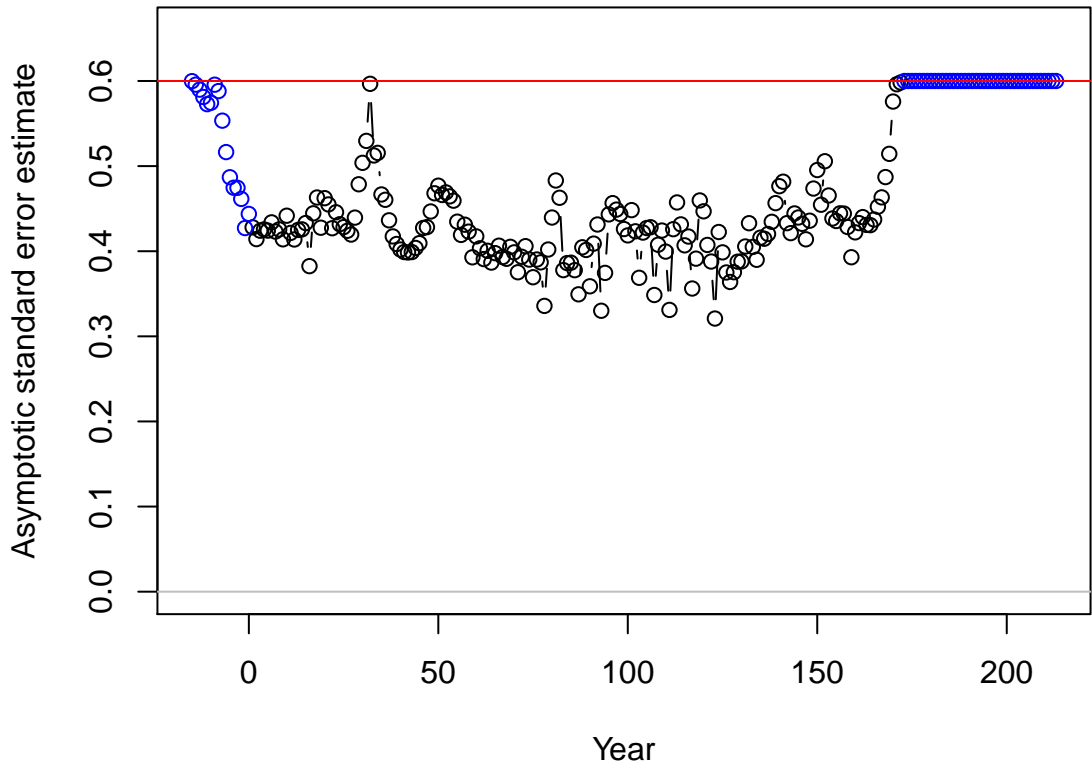
Summary Fishing Mortality

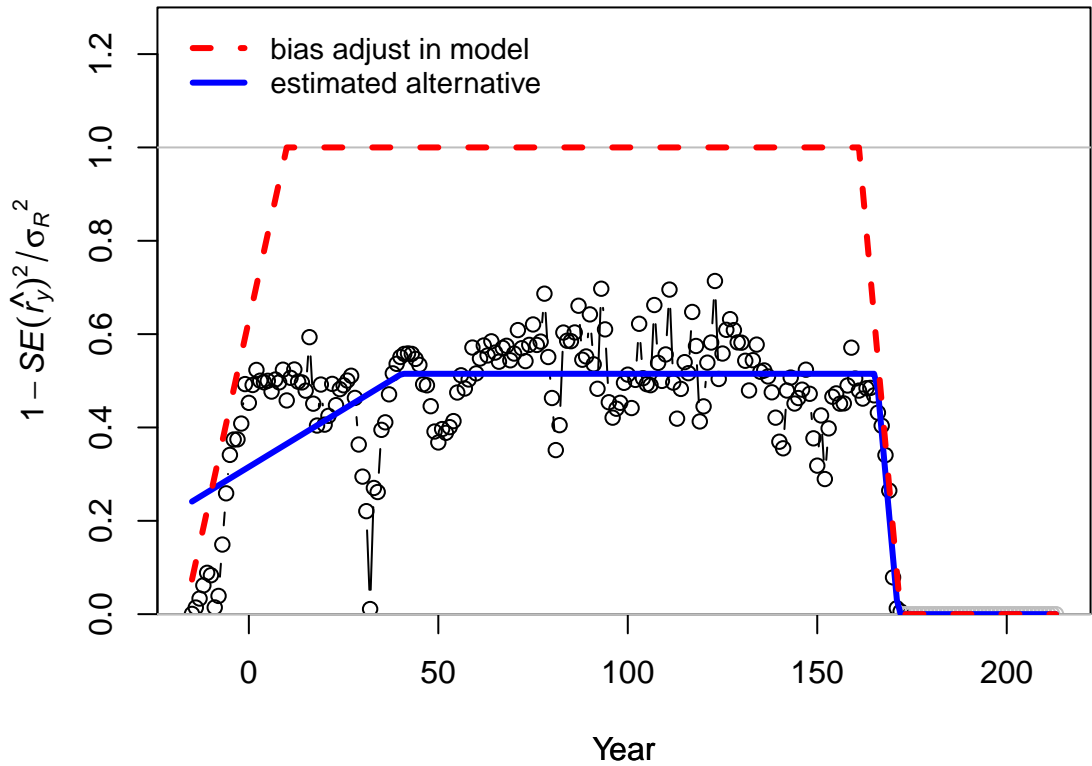


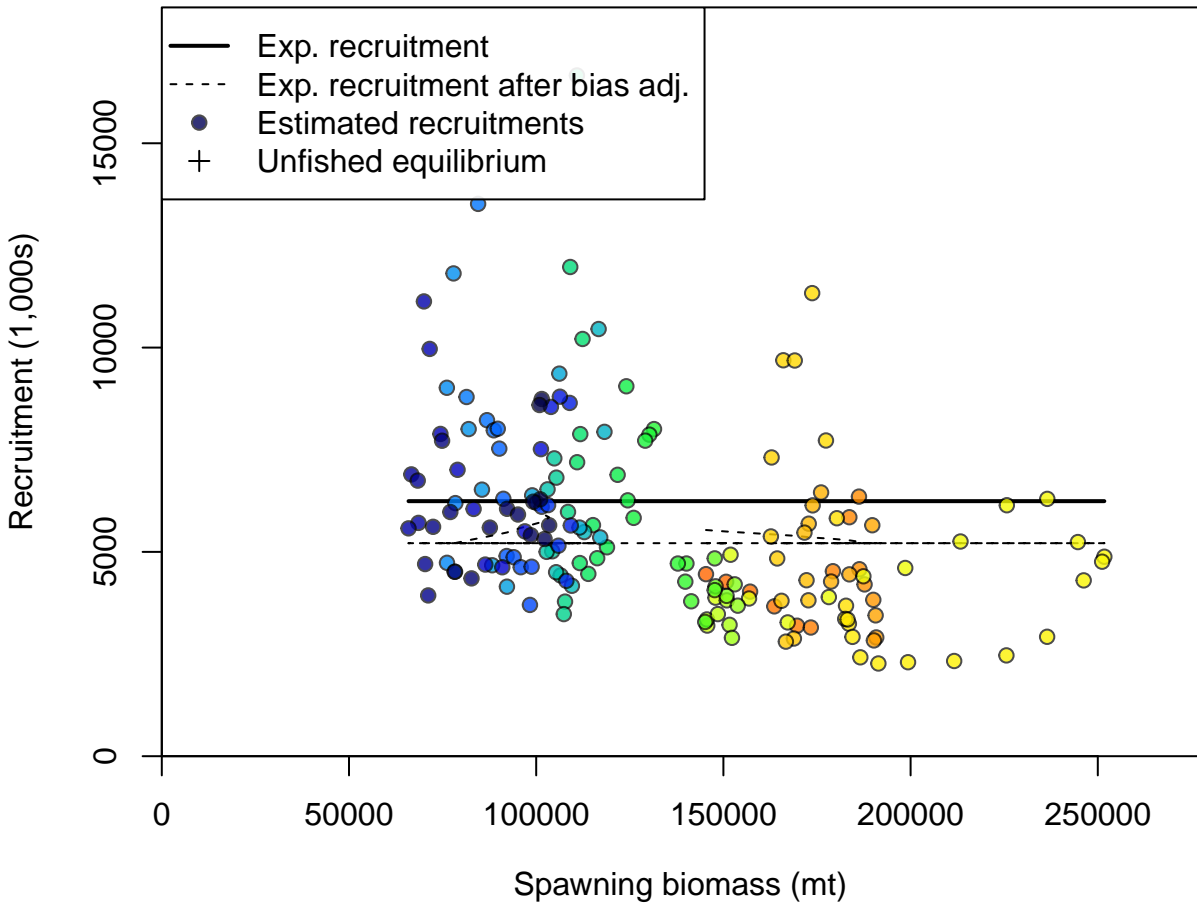


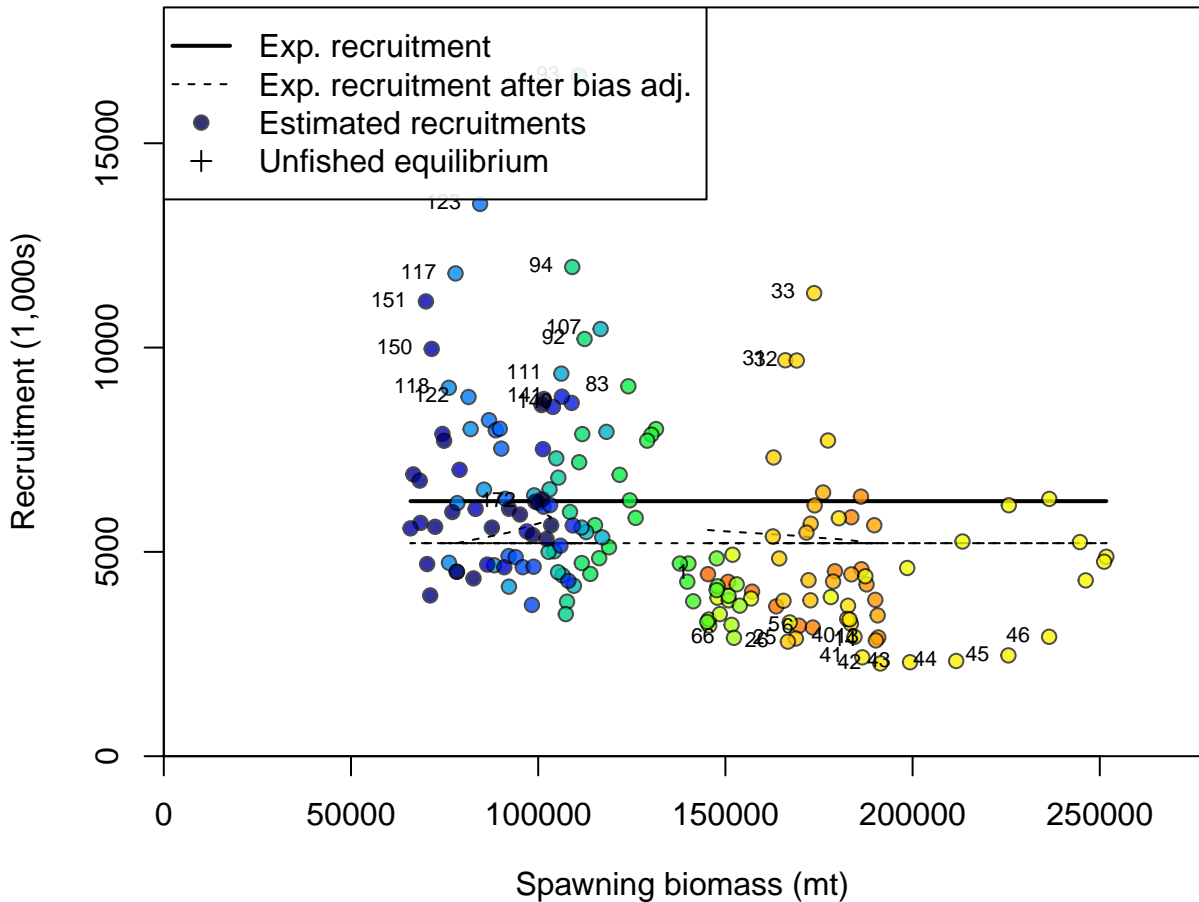


Recruitment deviation variance

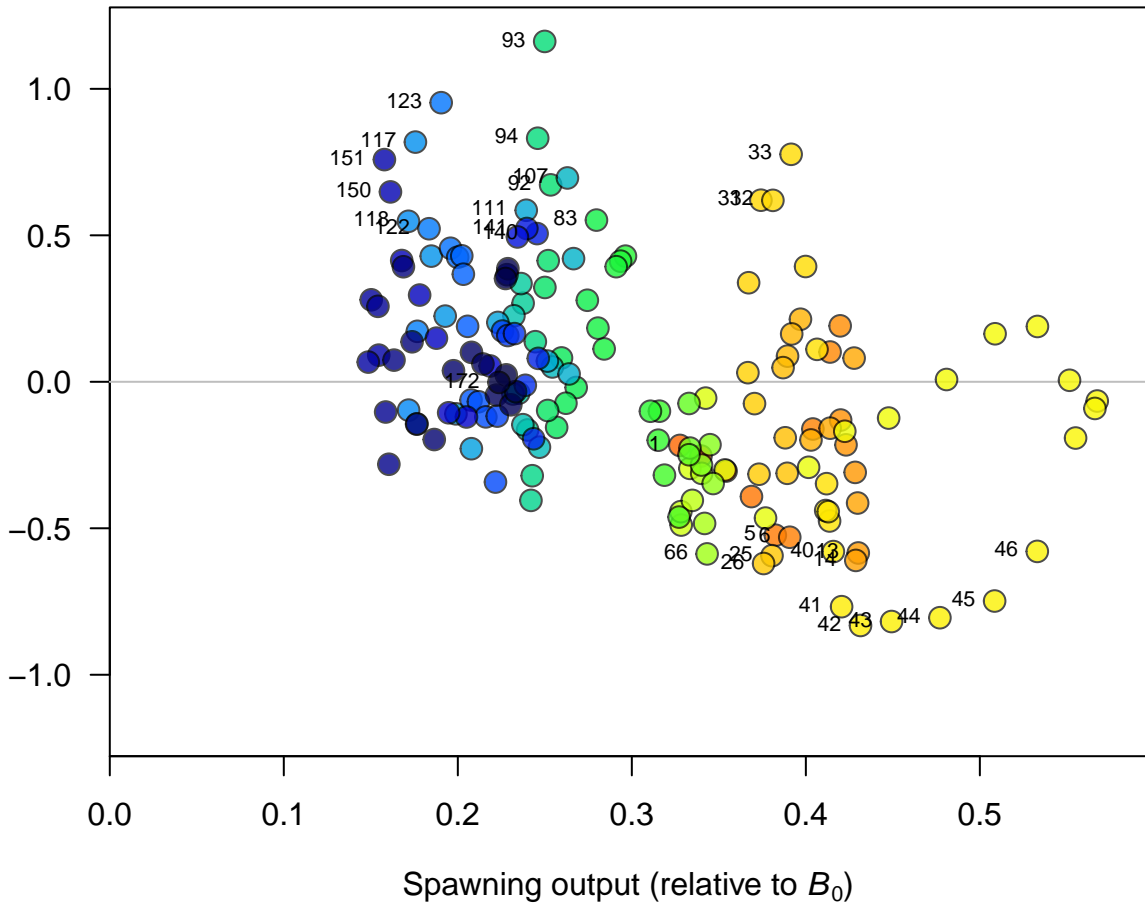


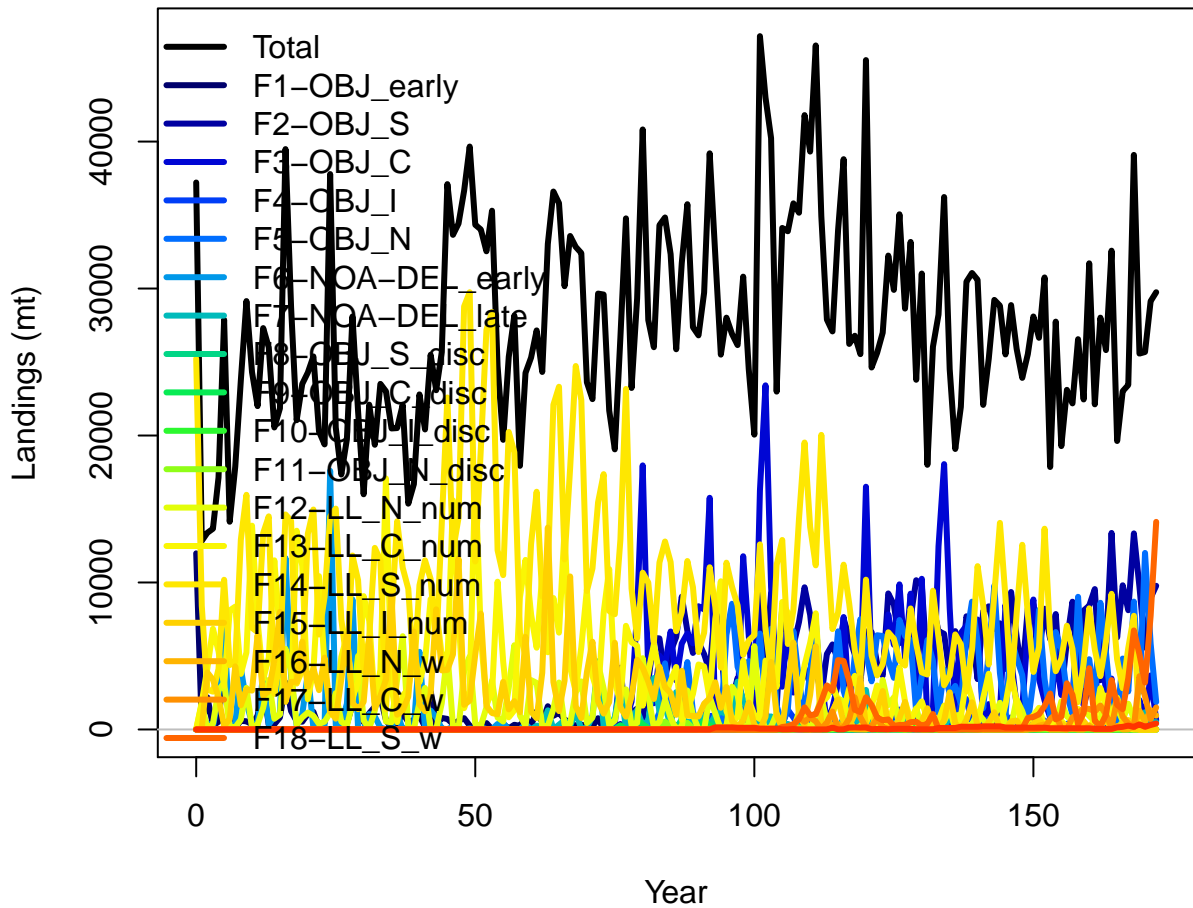


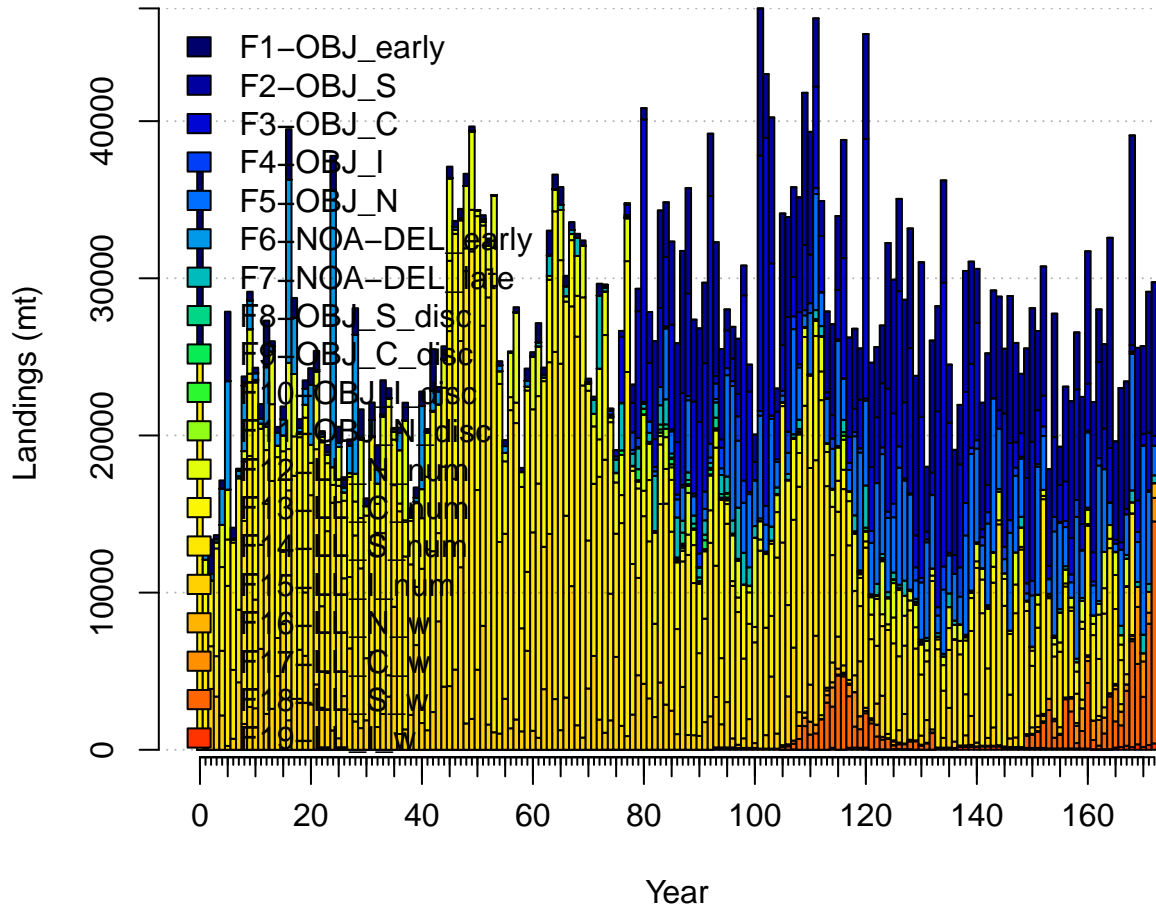




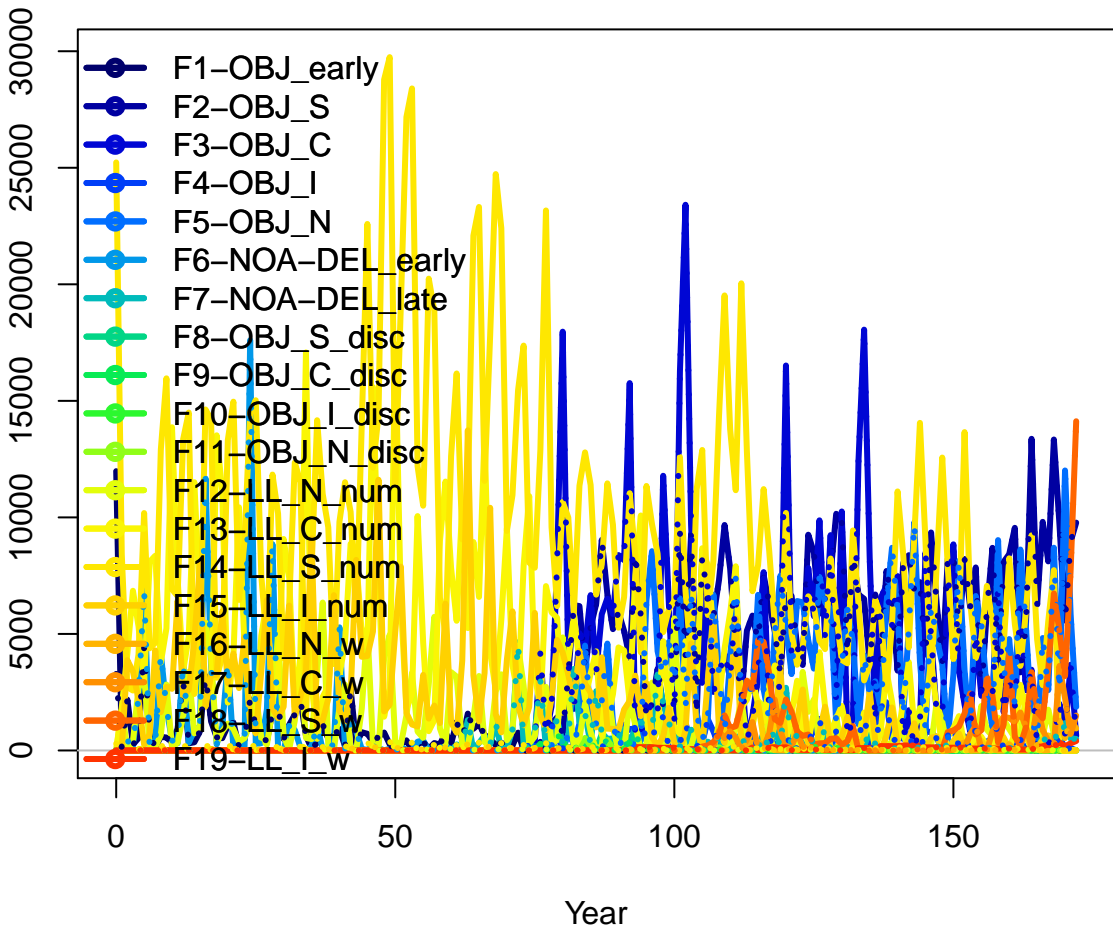
Log recruitment deviation



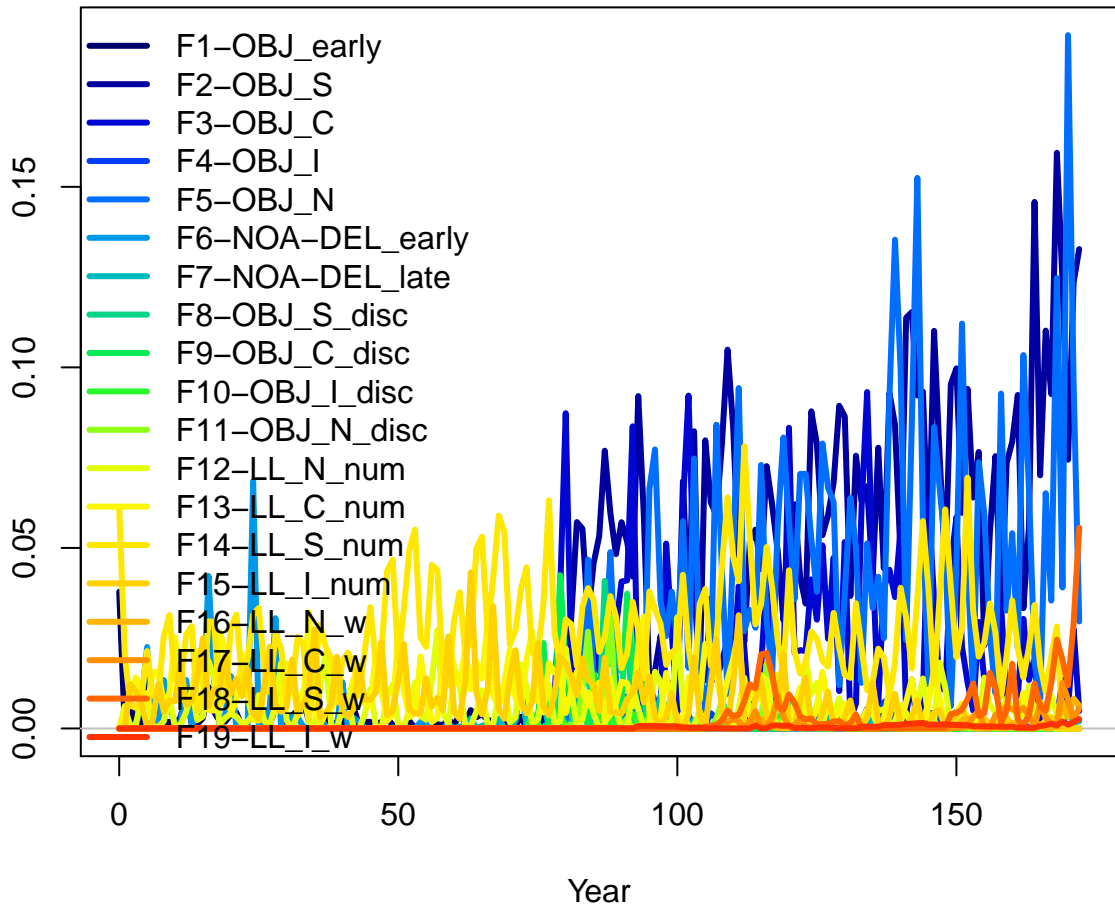




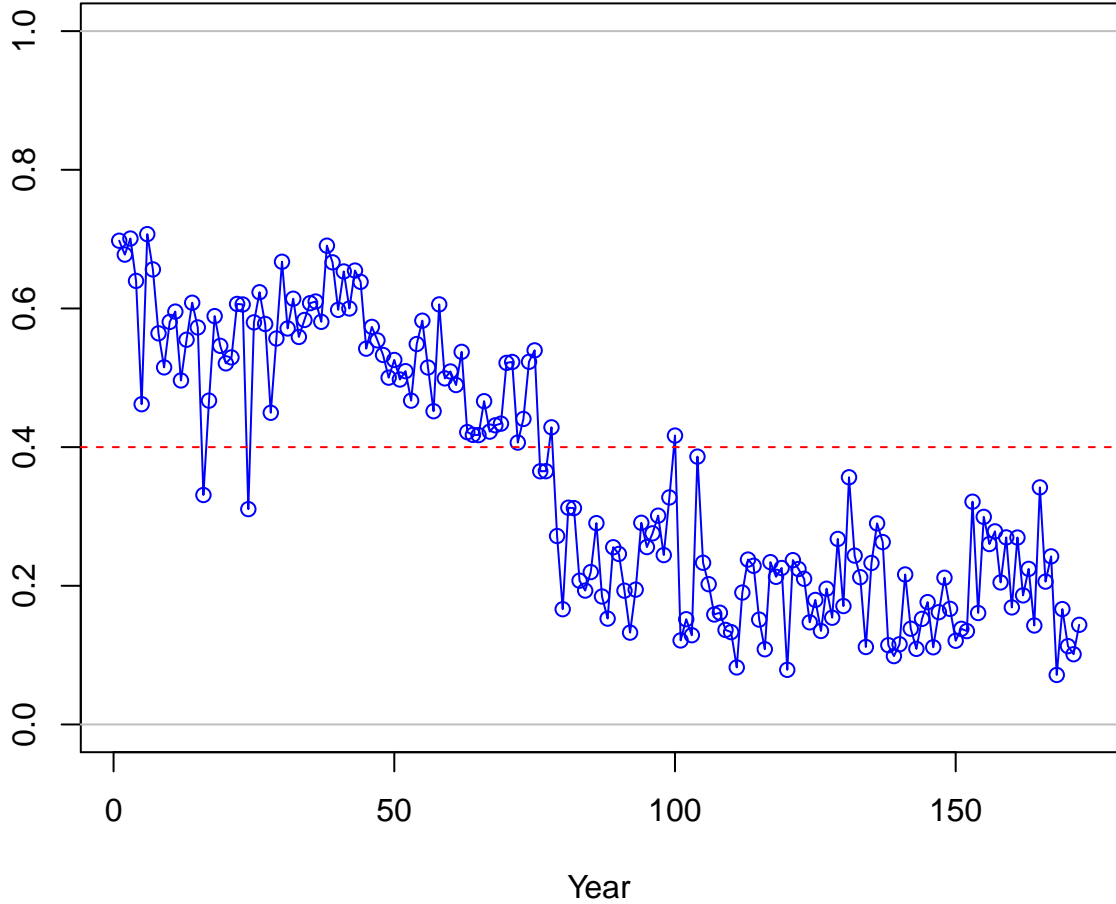
Observed and expected Landings (mt)



Continuous F



SPR



1-SPR

1.0
0.8
0.6
0.4
0.2
0.0

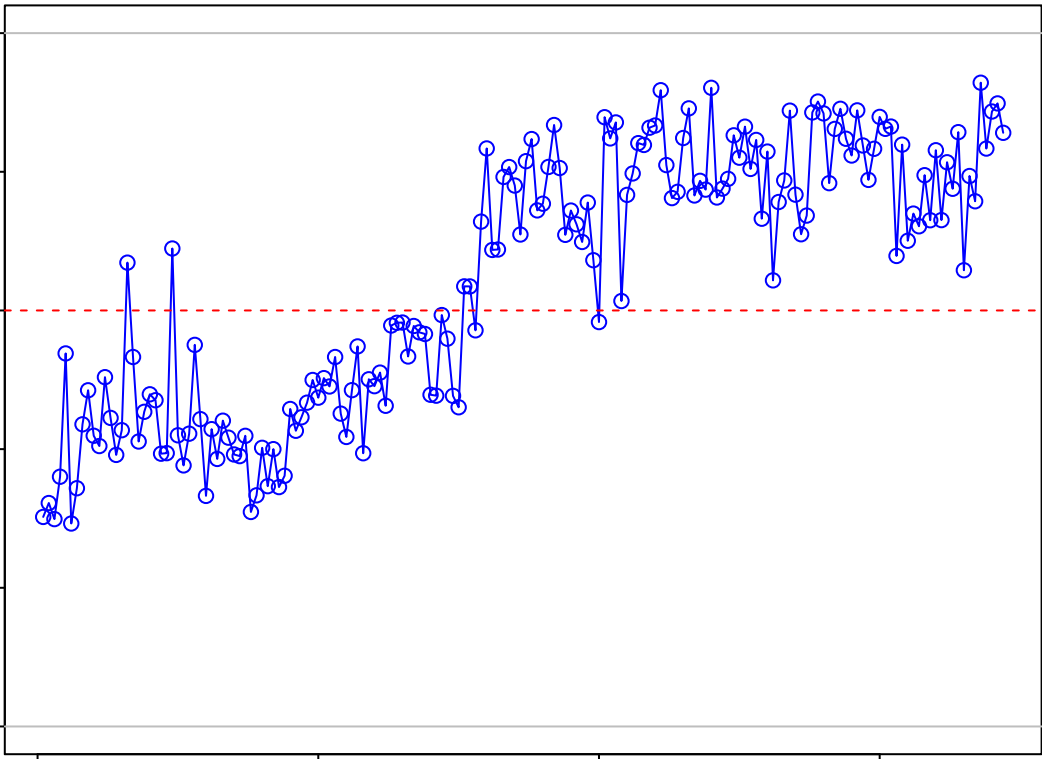
0

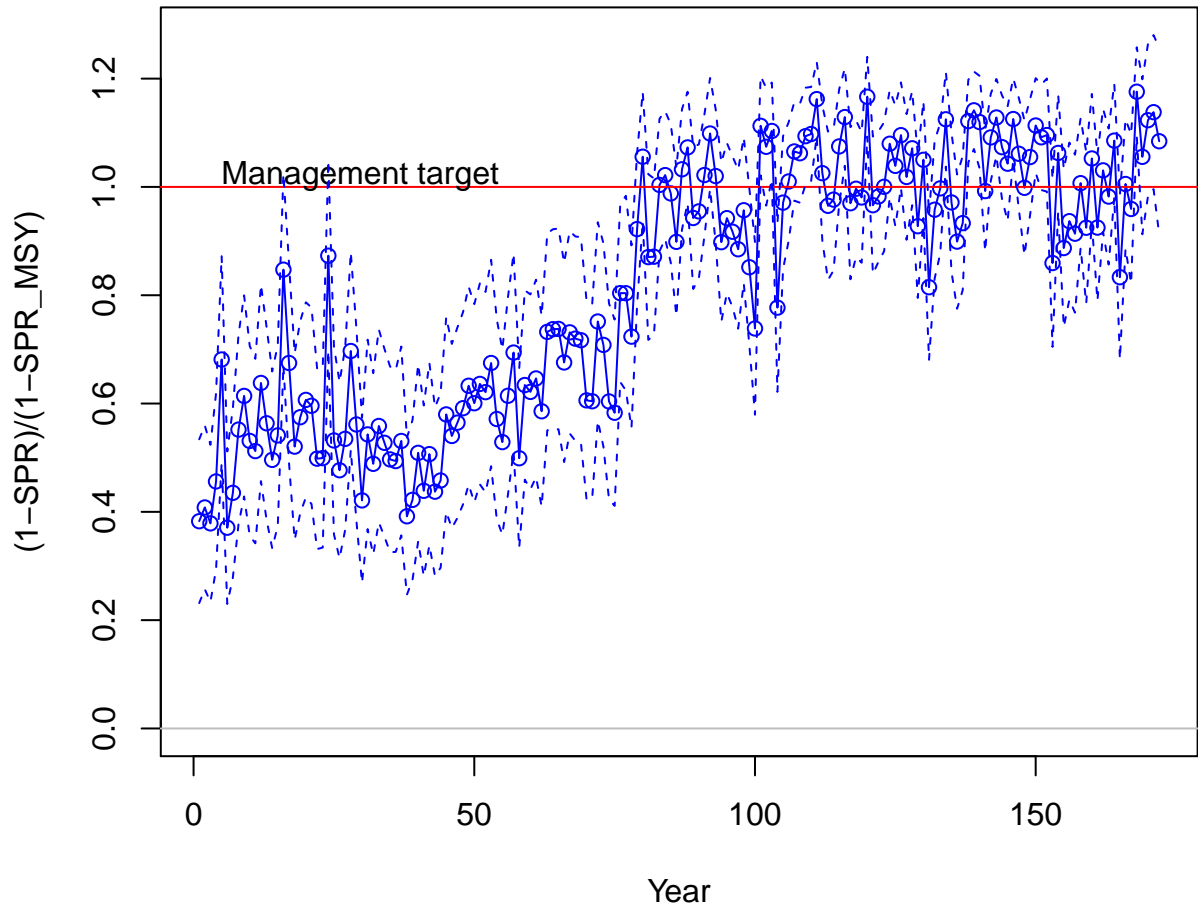
50

100

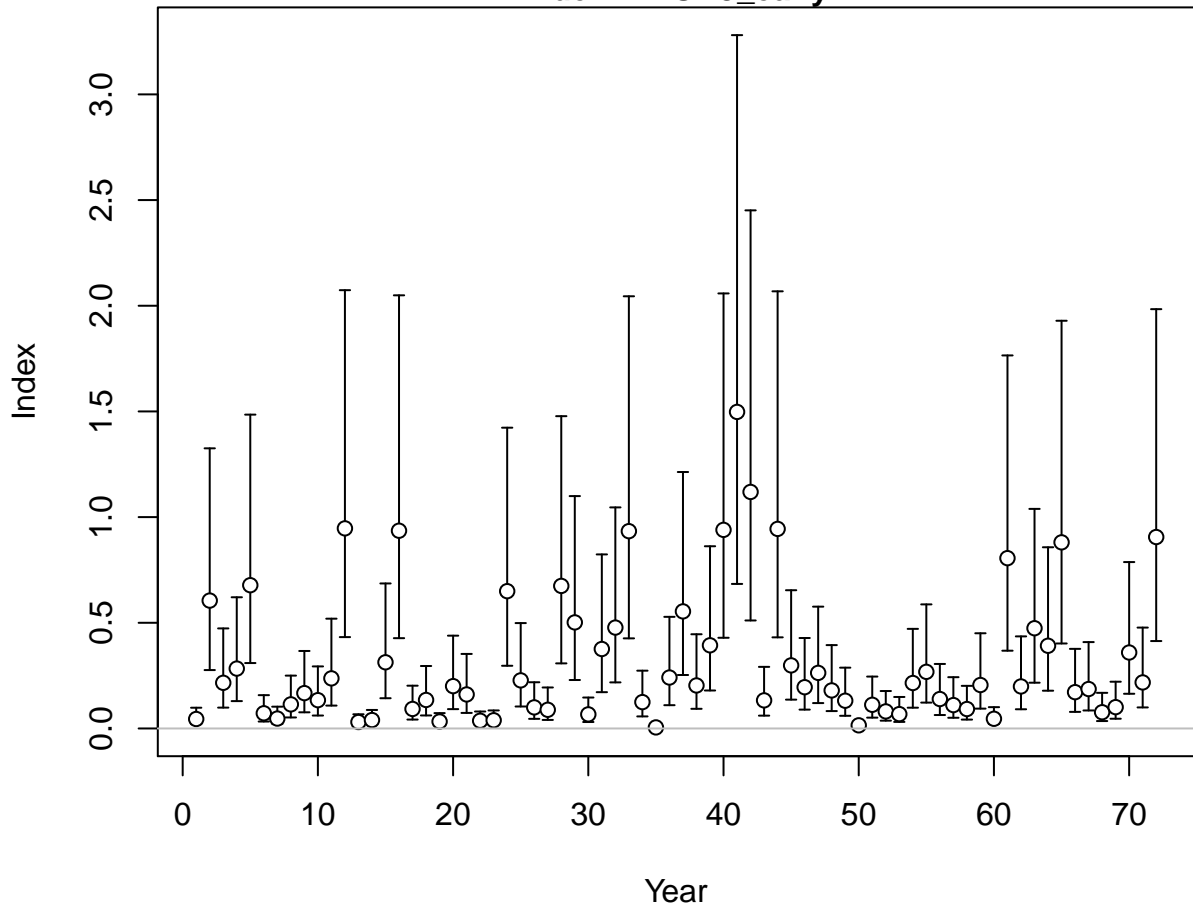
150

Year

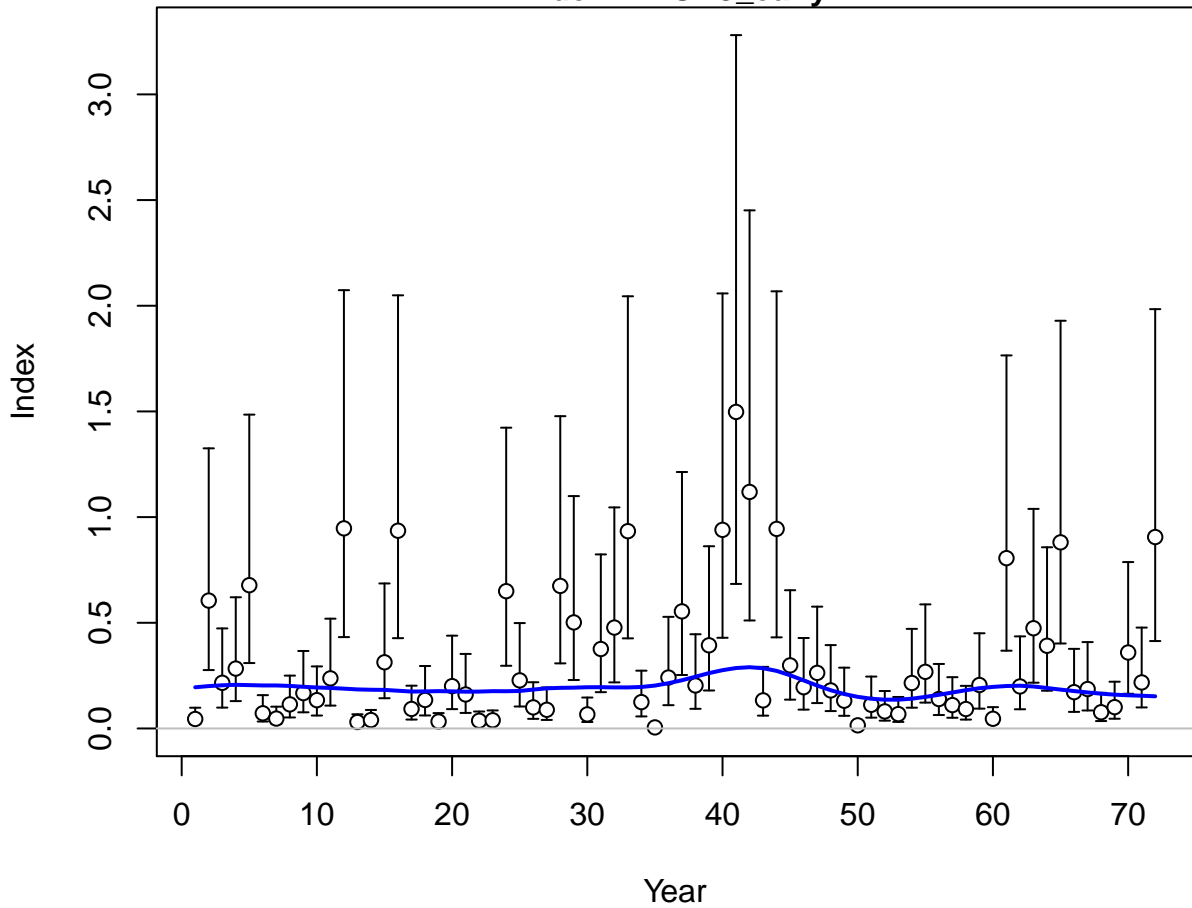




Index F1-OBJ_early

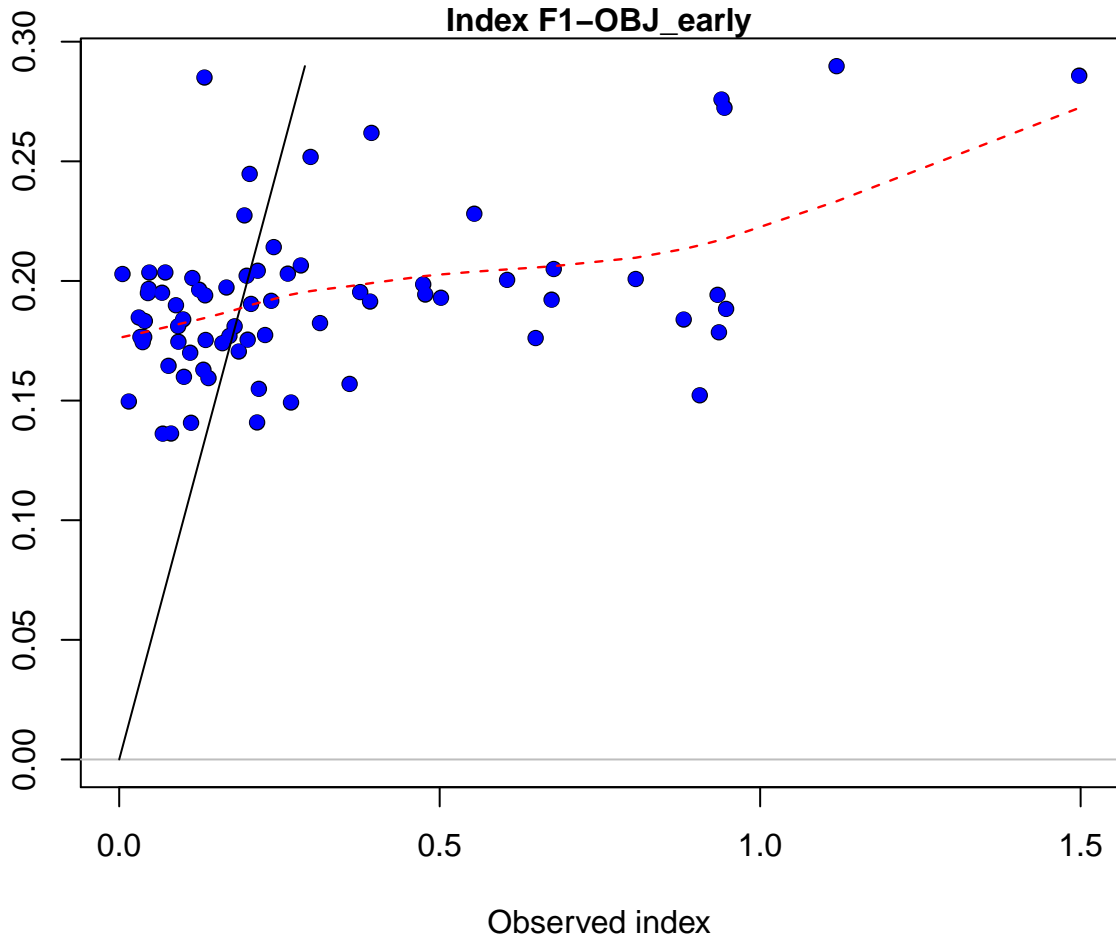


Index F1-OBJ_early



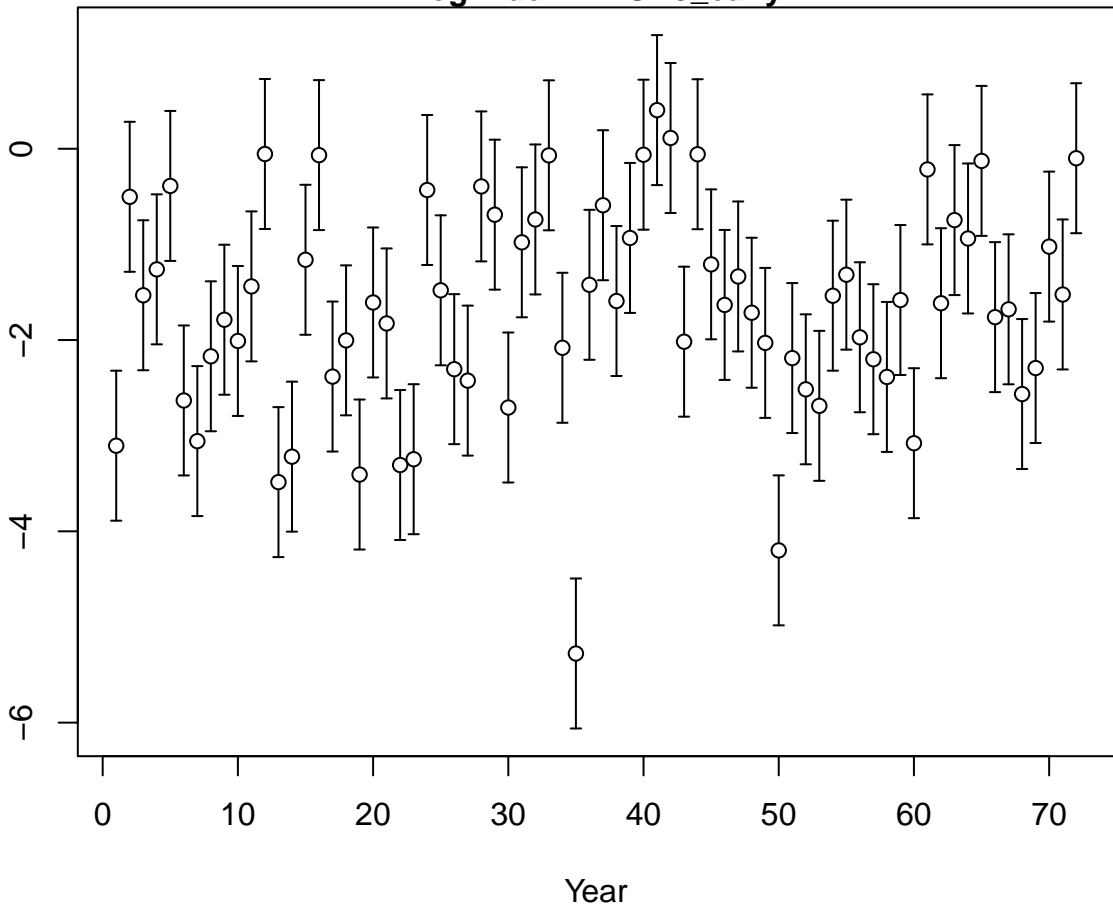
Index F1-Obj_early

Expected index



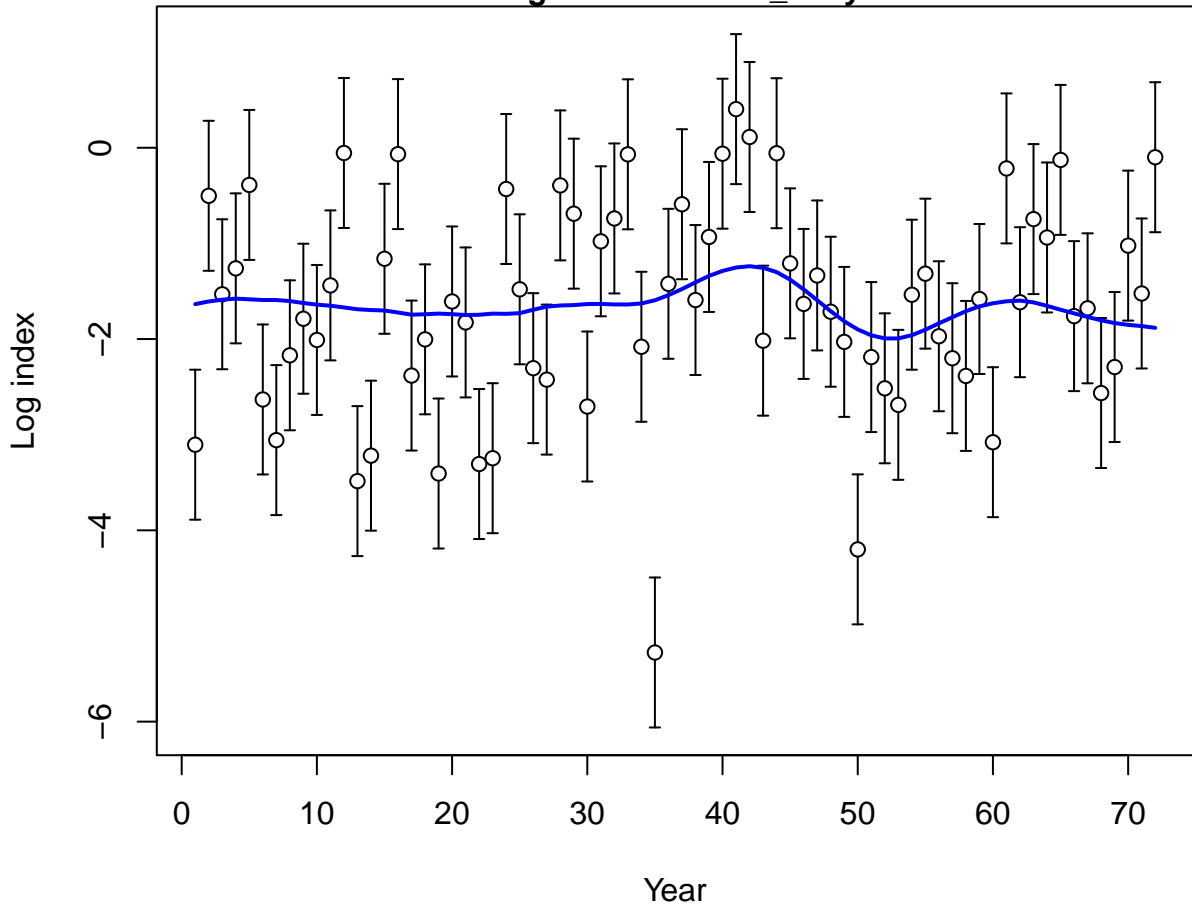
Log index F1-OBJ_early

Log index

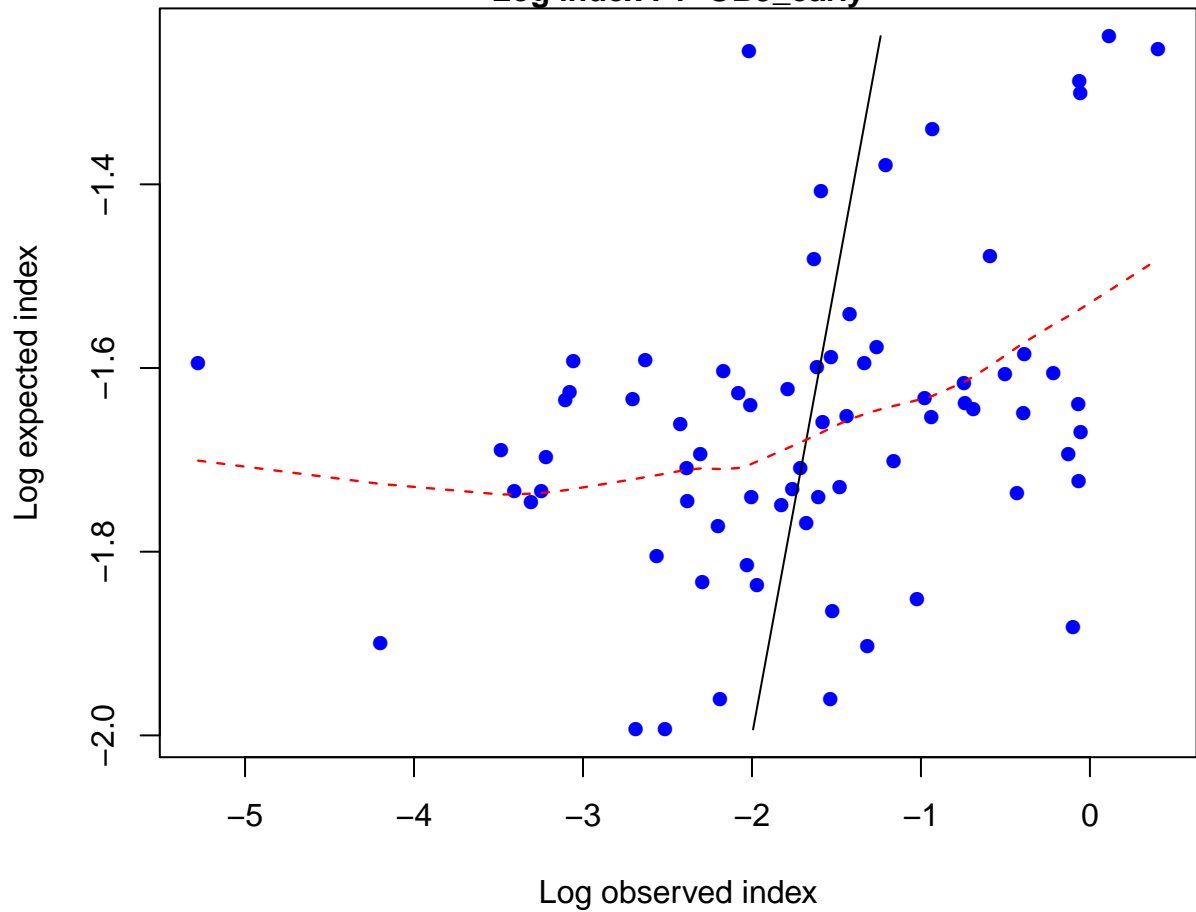


Year

Log index F1-OBJ_early



Log index F1-OBJ_early



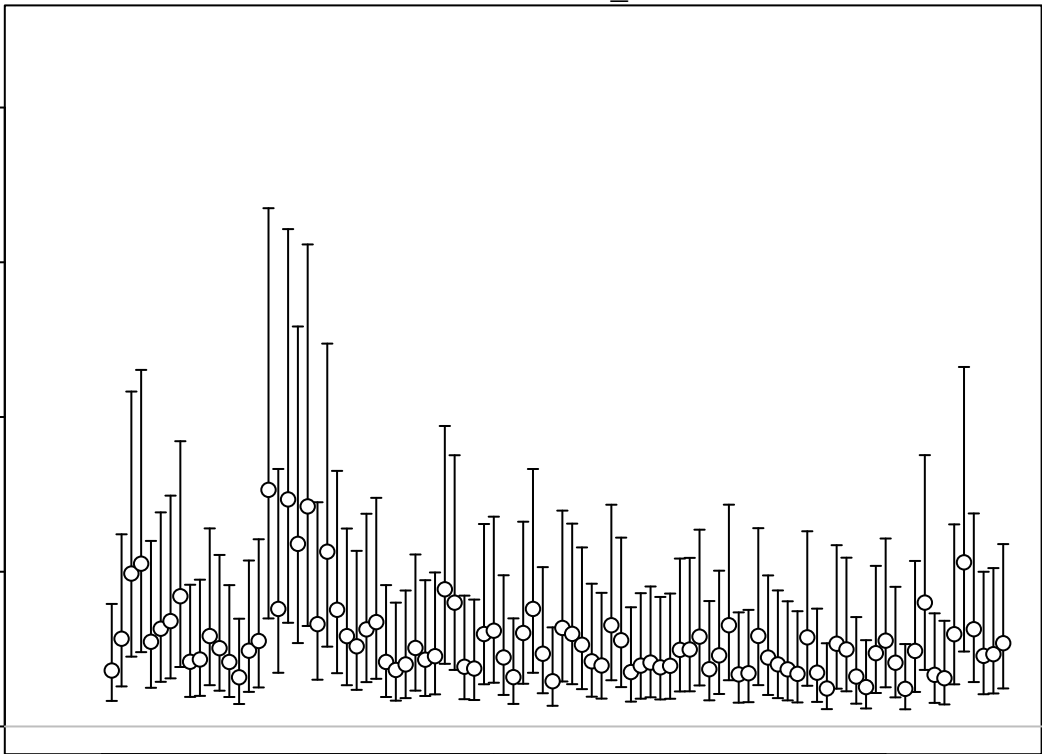
Index F2-OBJ_S

Index

40
30
20
10
0

80 100 120 140 160

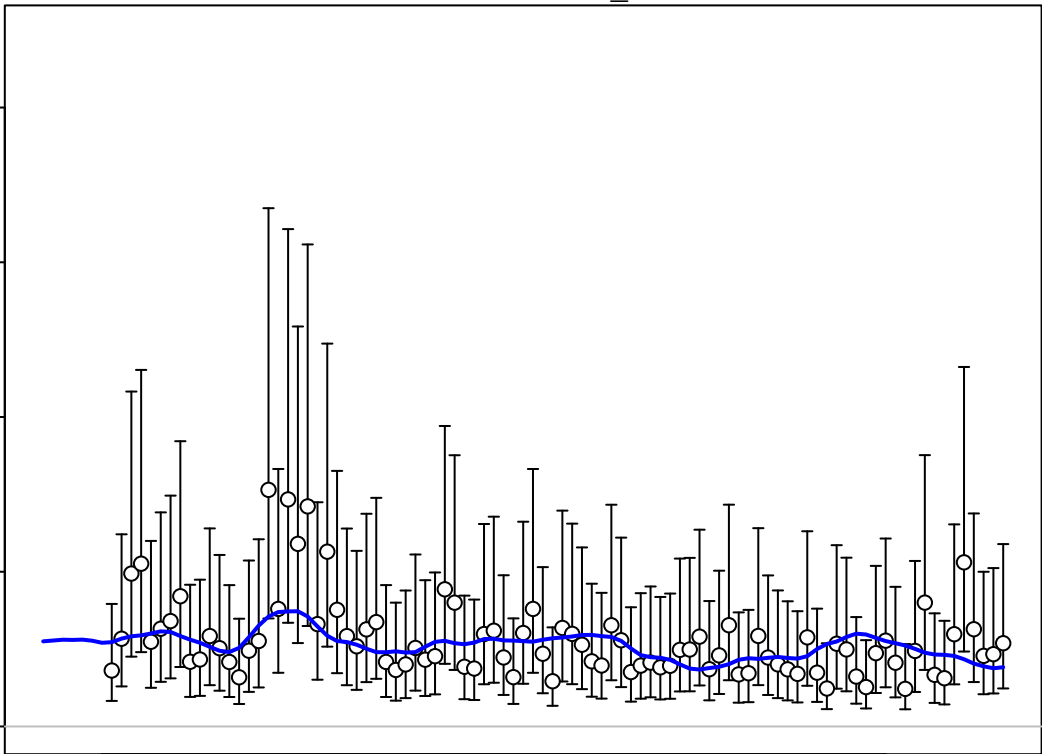
Year



Index F2-OBJ_S

Index

40
30
20
10
0



80

100

120

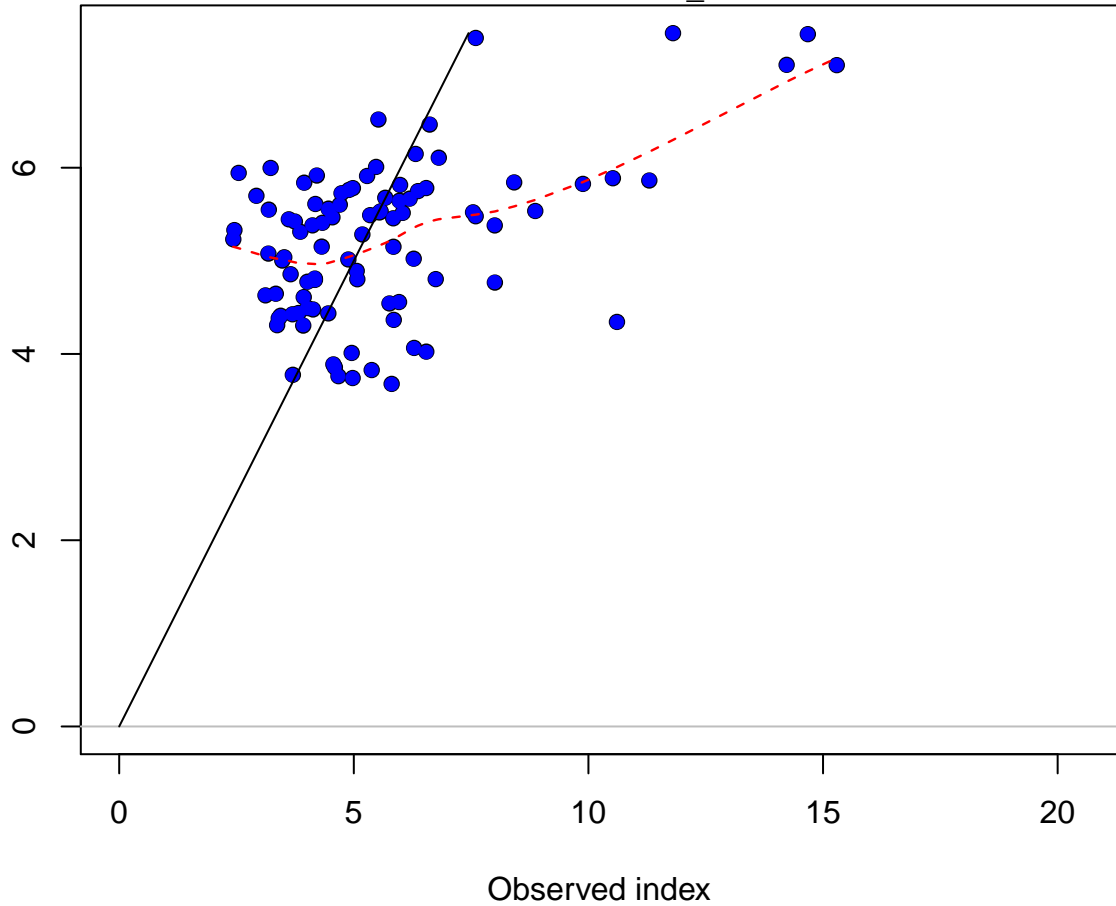
140

160

Year

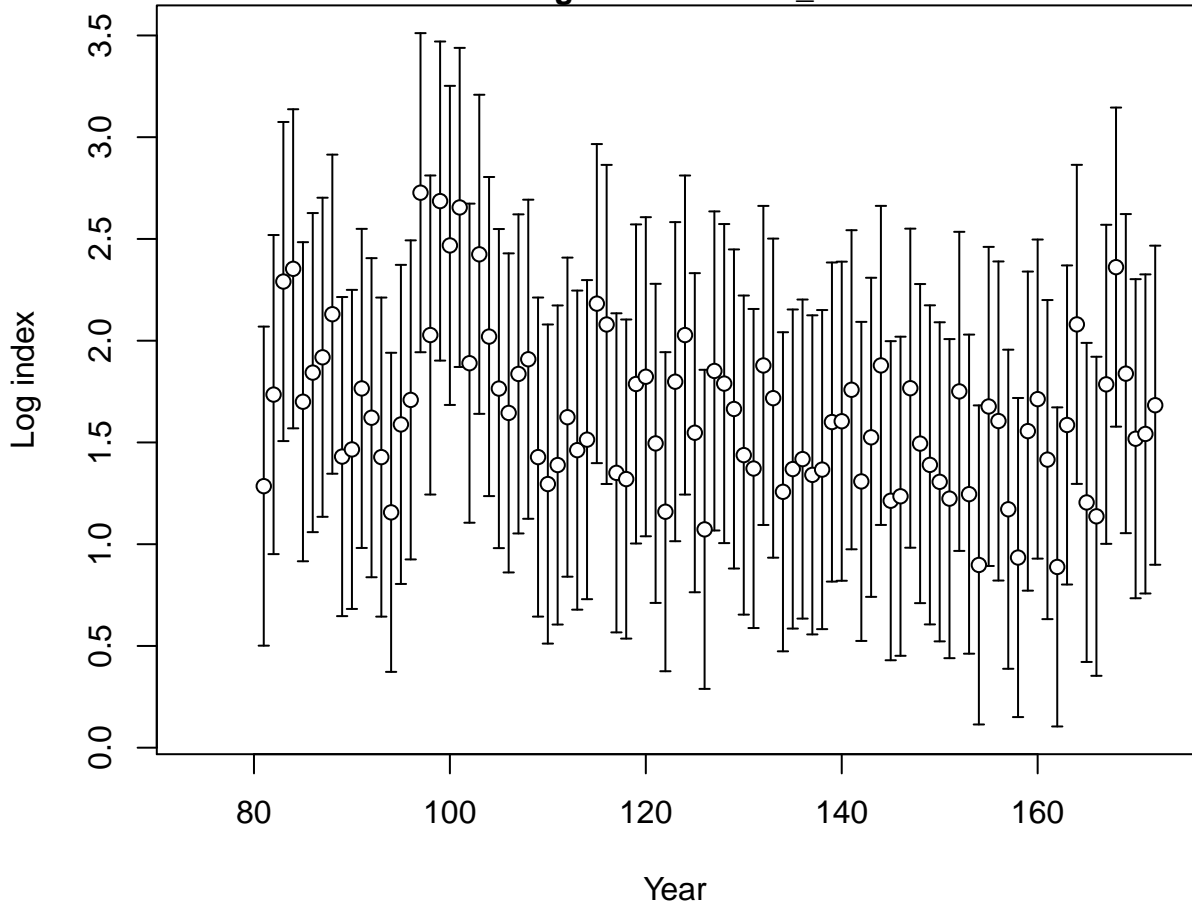
Index F2-Obj_S

Expected index

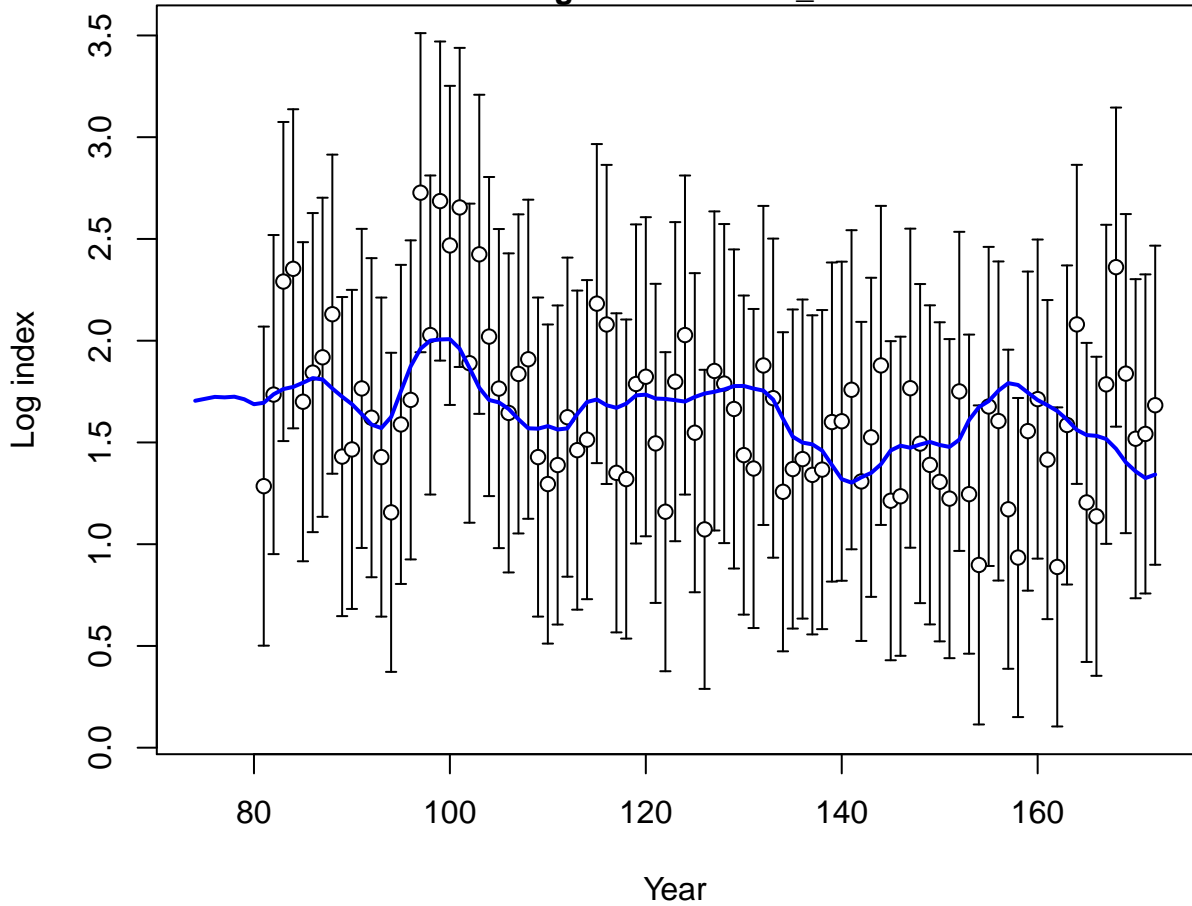


Observed index

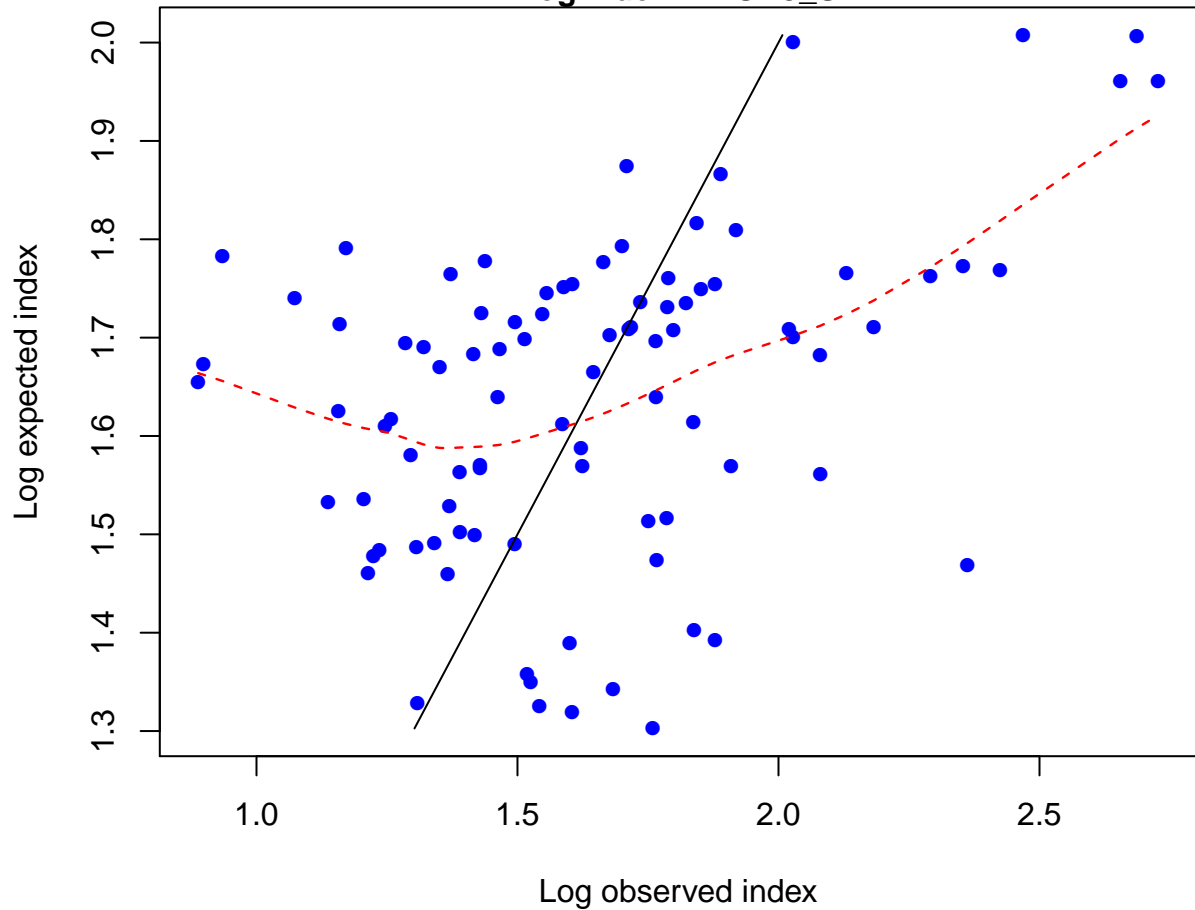
Log index F2-OBJ_S



Log index F2-OBJ_S



Log index F2-OBJ_S



Index F3-OBJ_C

Index

25
20
15
10
5
0

80

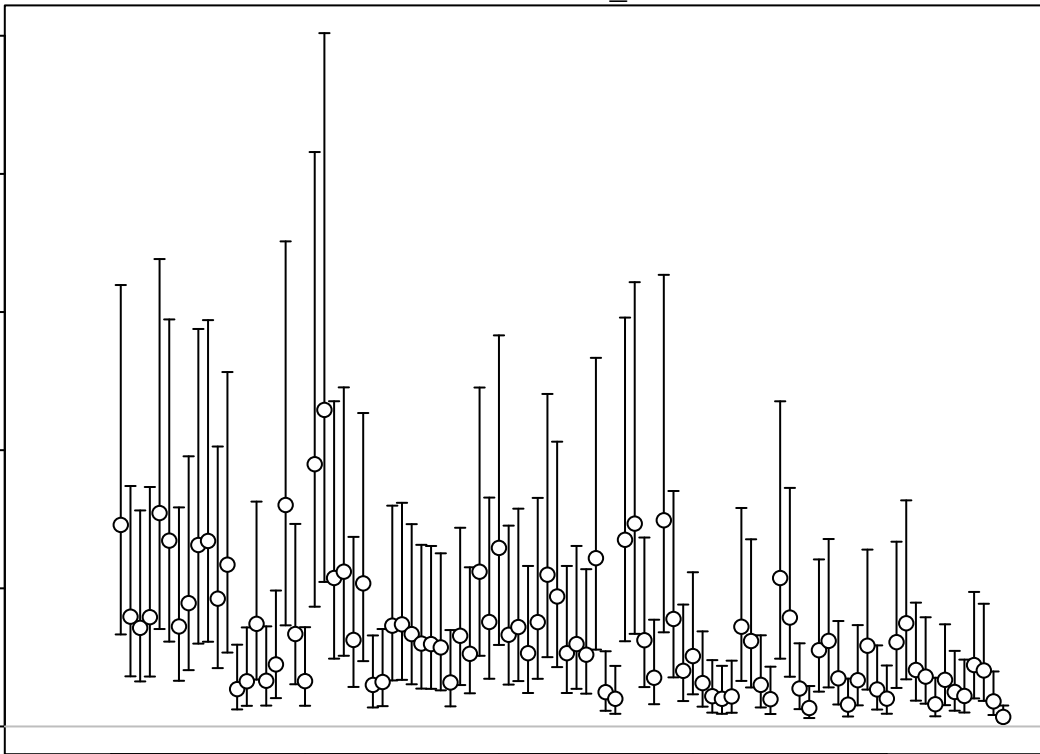
100

120

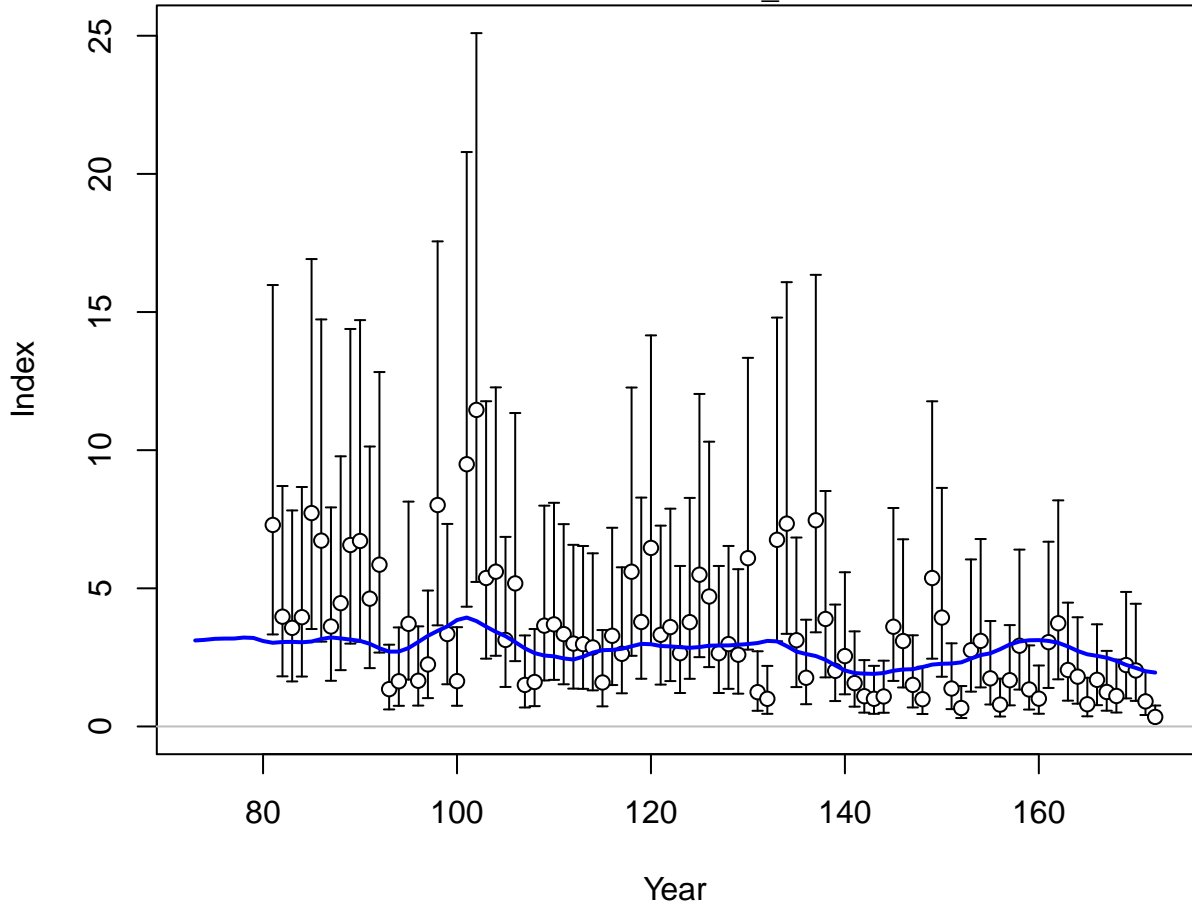
140

160

Year

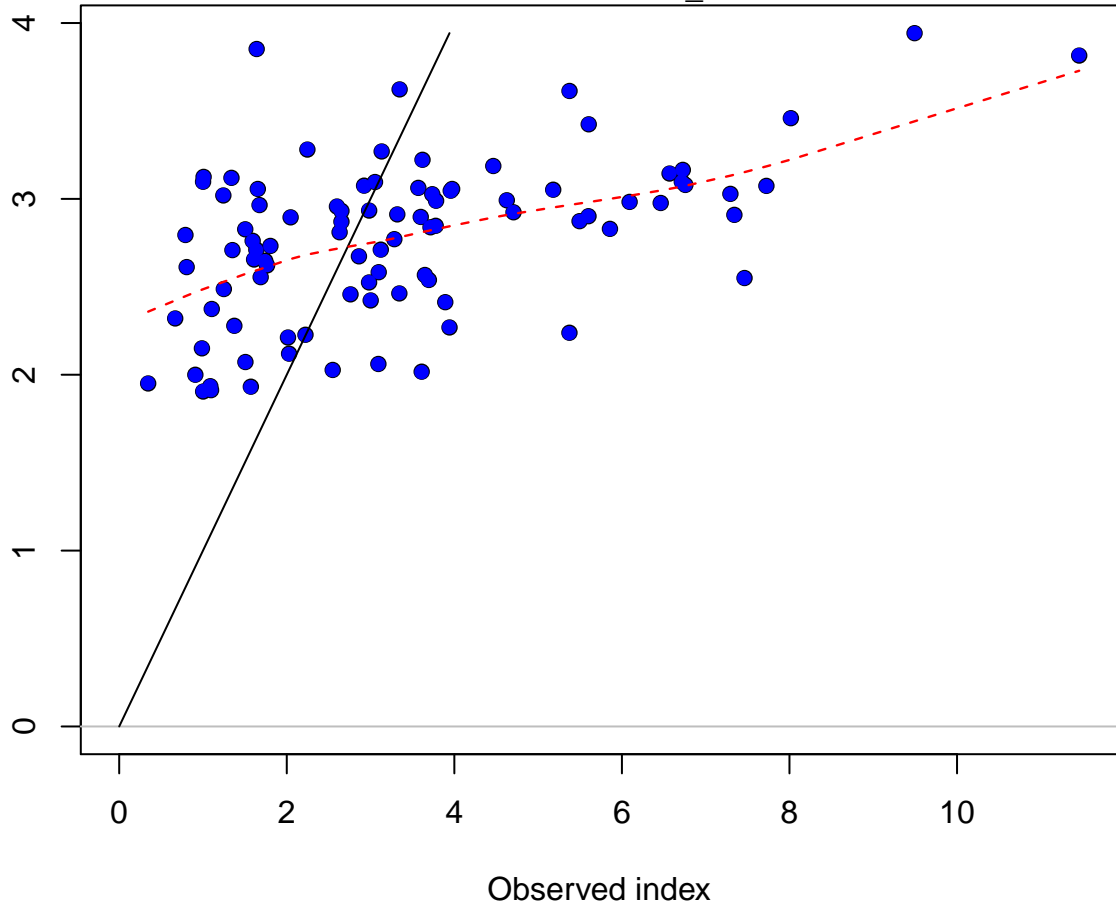


Index F3-OBJ_C

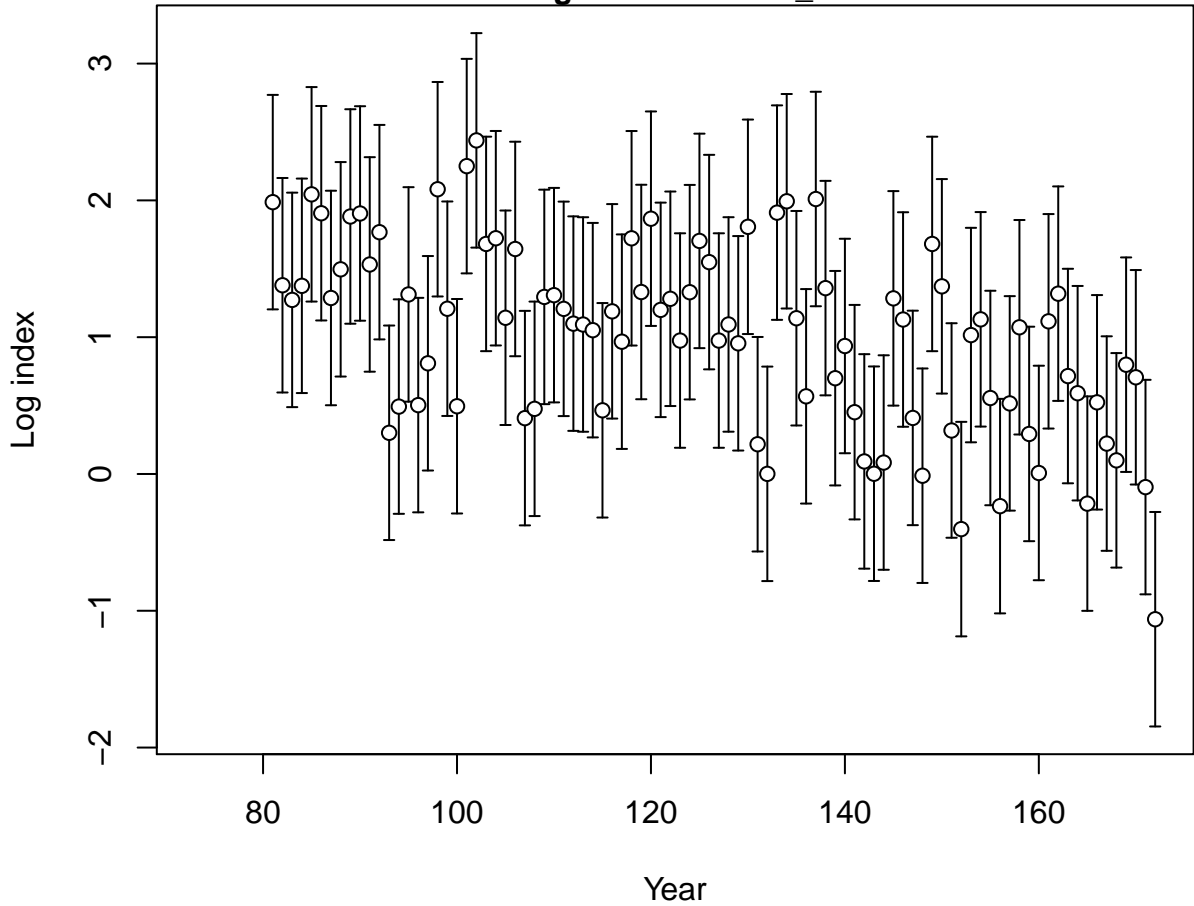


Index F3-OBJ_C

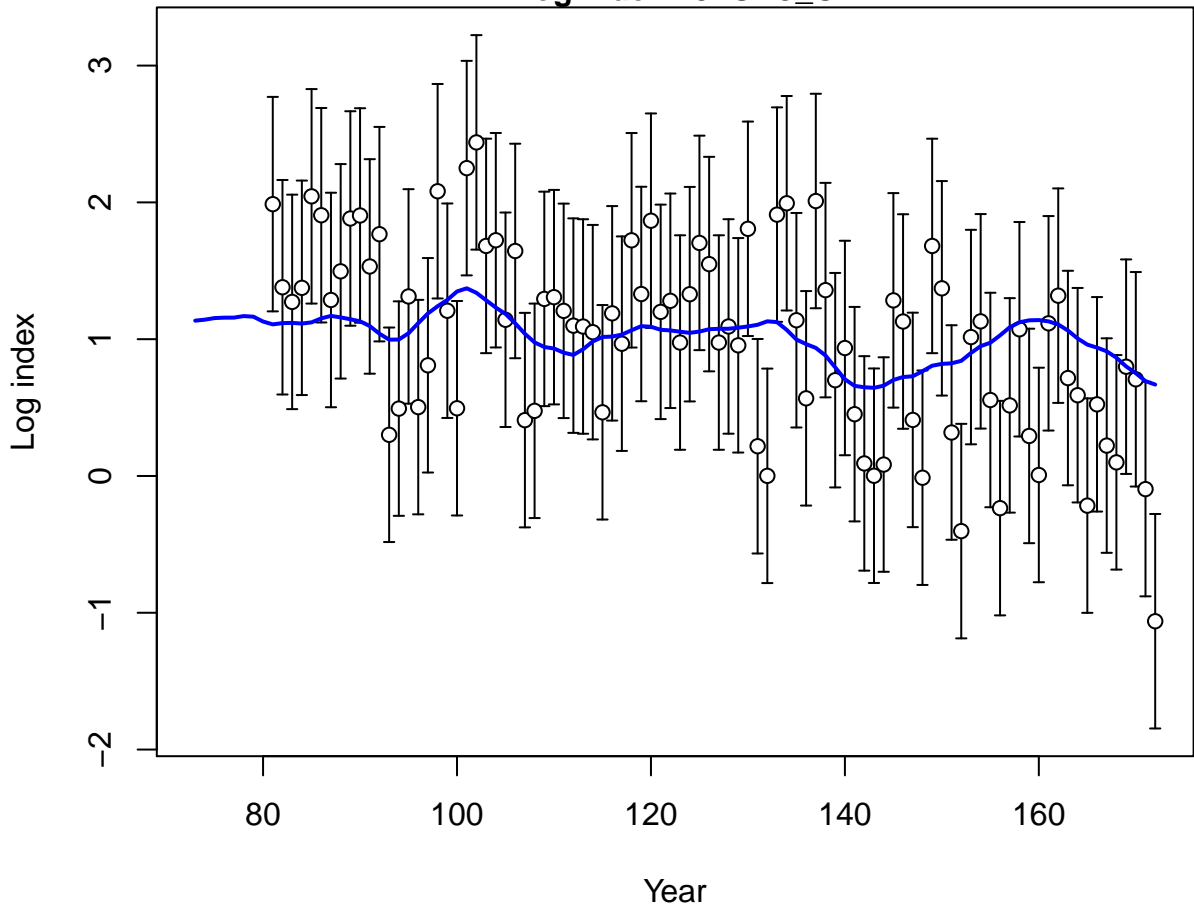
Expected index



Log index F3-OBJ_C

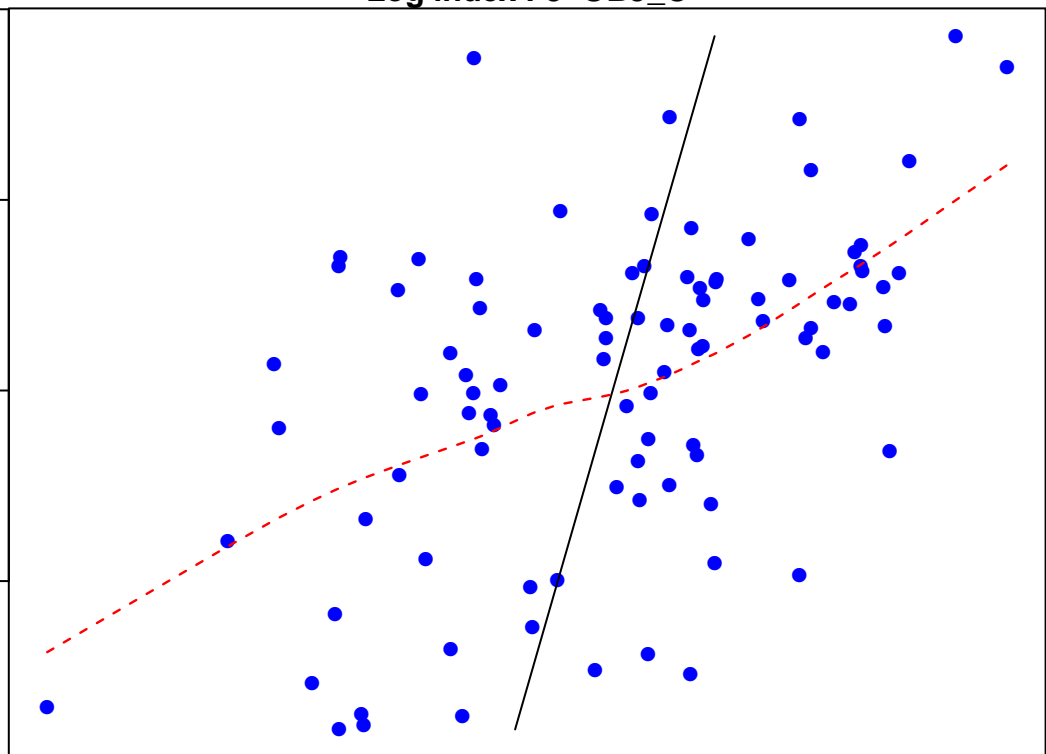


Log index F3-OBJ_C



Log index F3-OBJ_C

Log expected index

1.4
1.2
1.0
0.8

-1.0 -0.5 0.0 0.5 1.0 1.5 2.0 2.5

Log observed index

Index F4-OBJ_I

Index

3

2

1

0

80

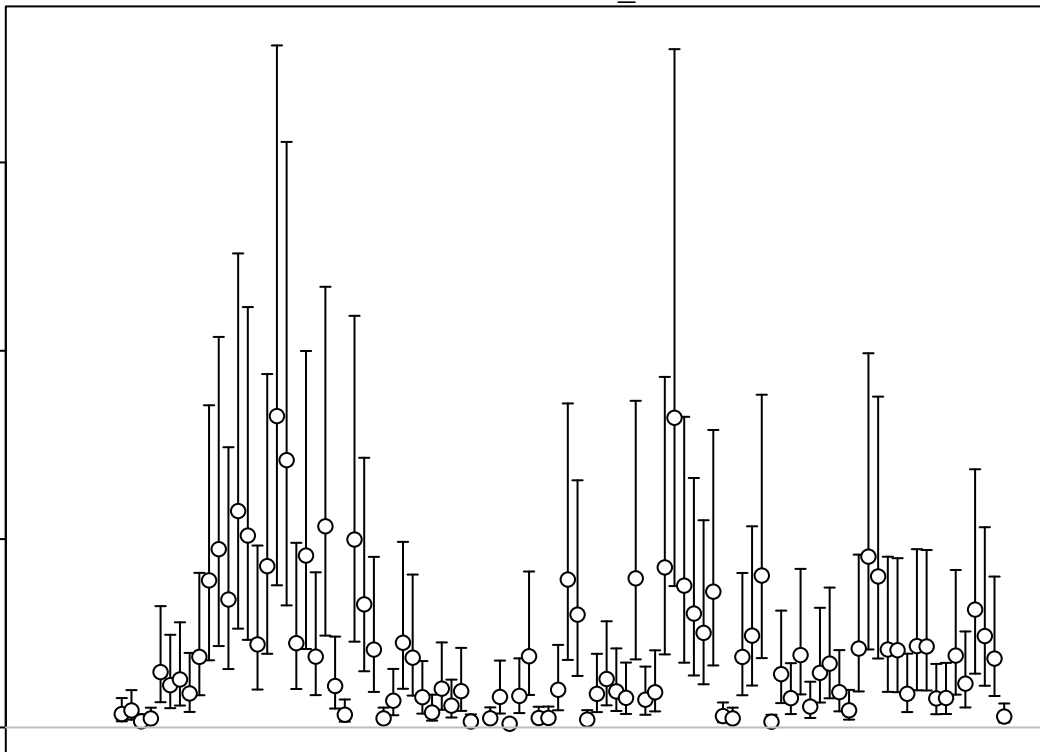
100

120

140

160

Year



Index F4-OBJ_I

Index

3

2

1

0

80

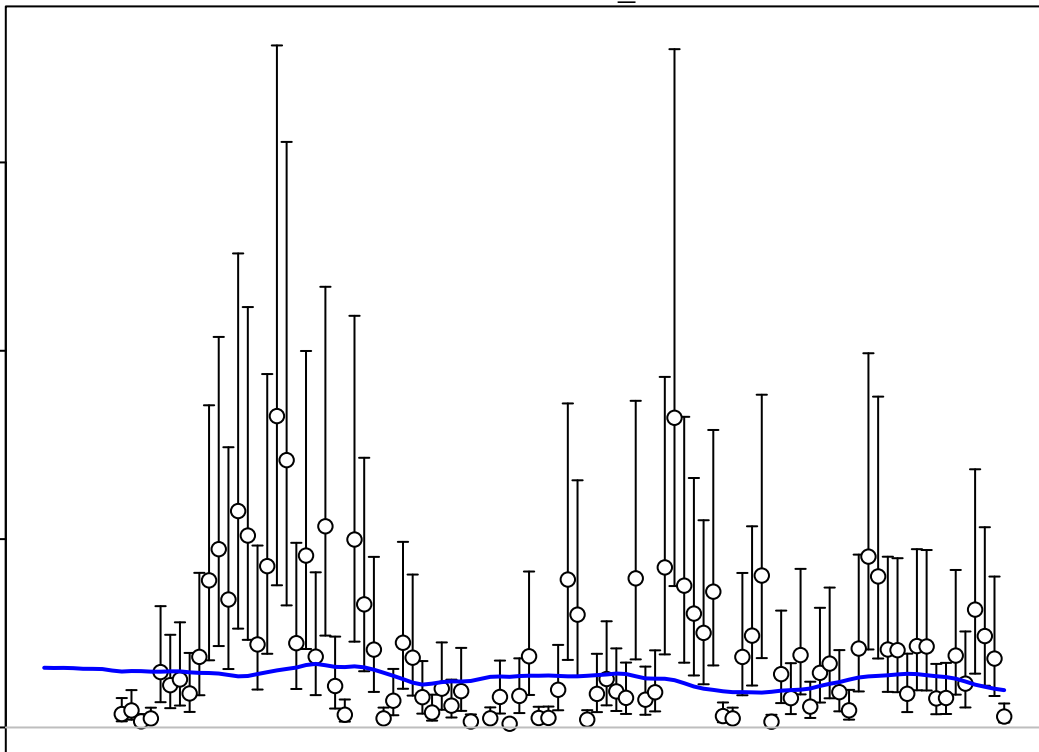
100

120

140

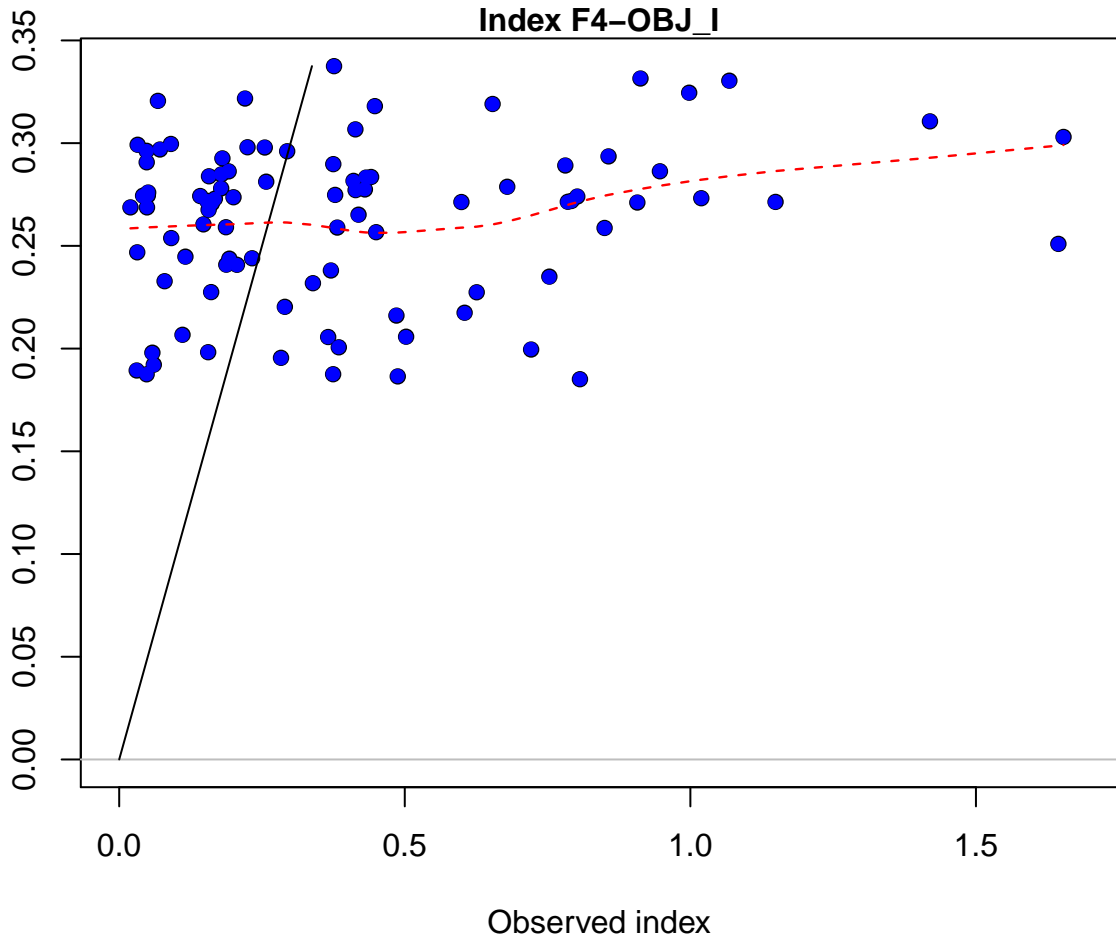
160

Year



Index F4-OBJ_I

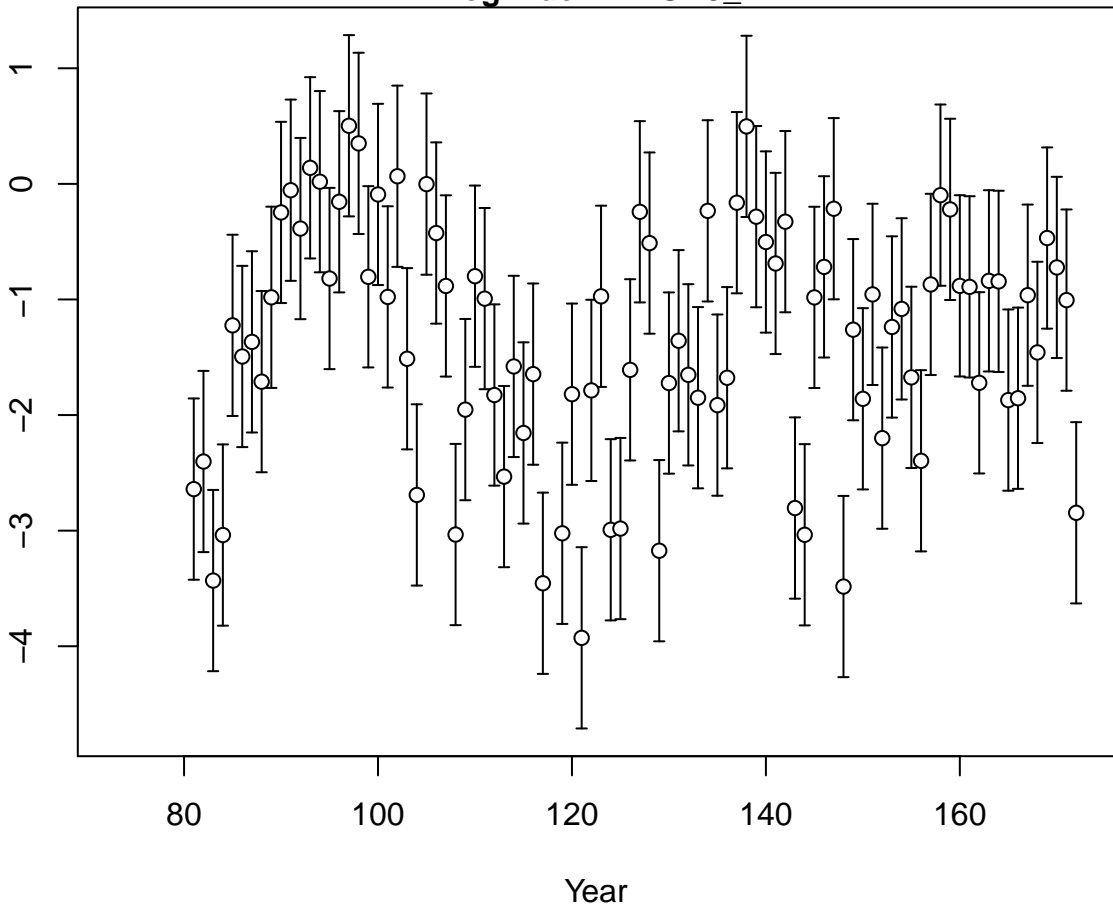
Expected index



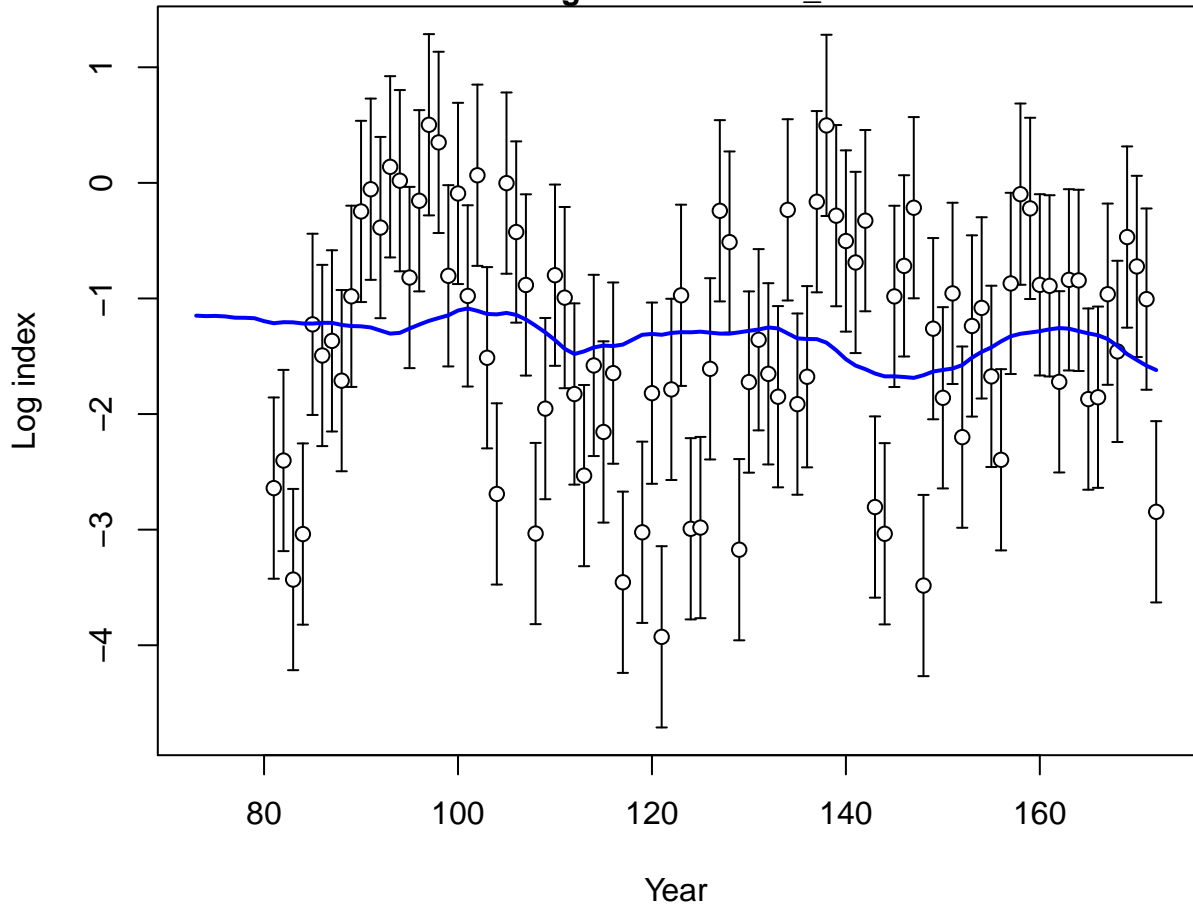
Observed index

Log index F4-OBJ_I

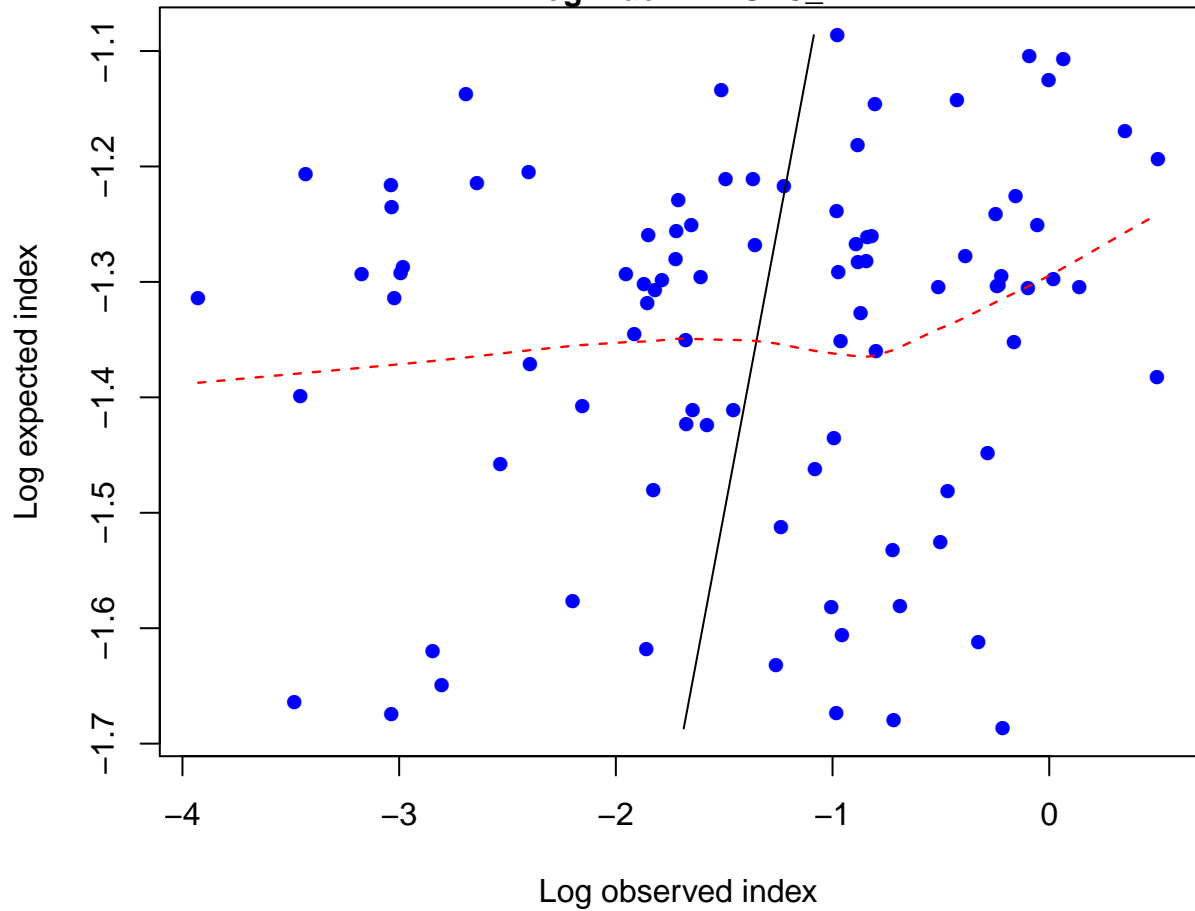
Log index



Log index F4-OBJ_I

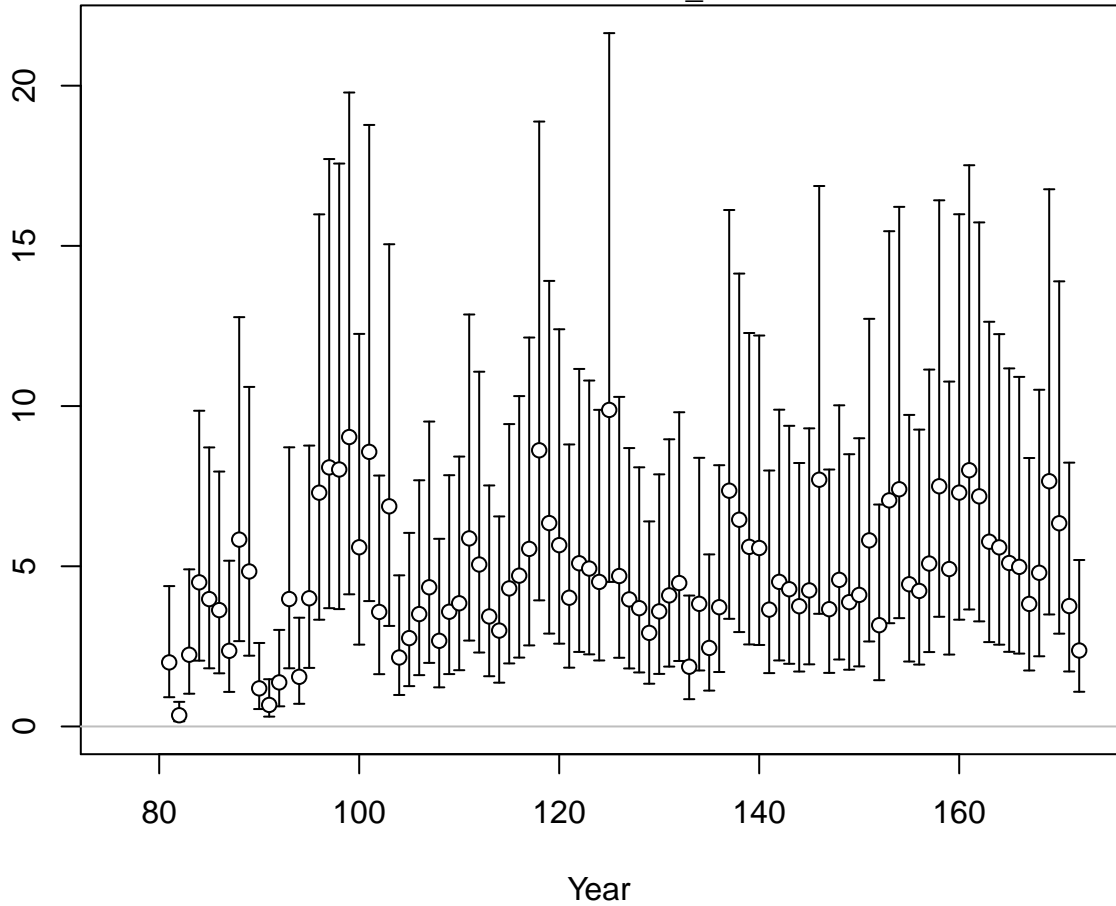


Log index F4-OBJ_I

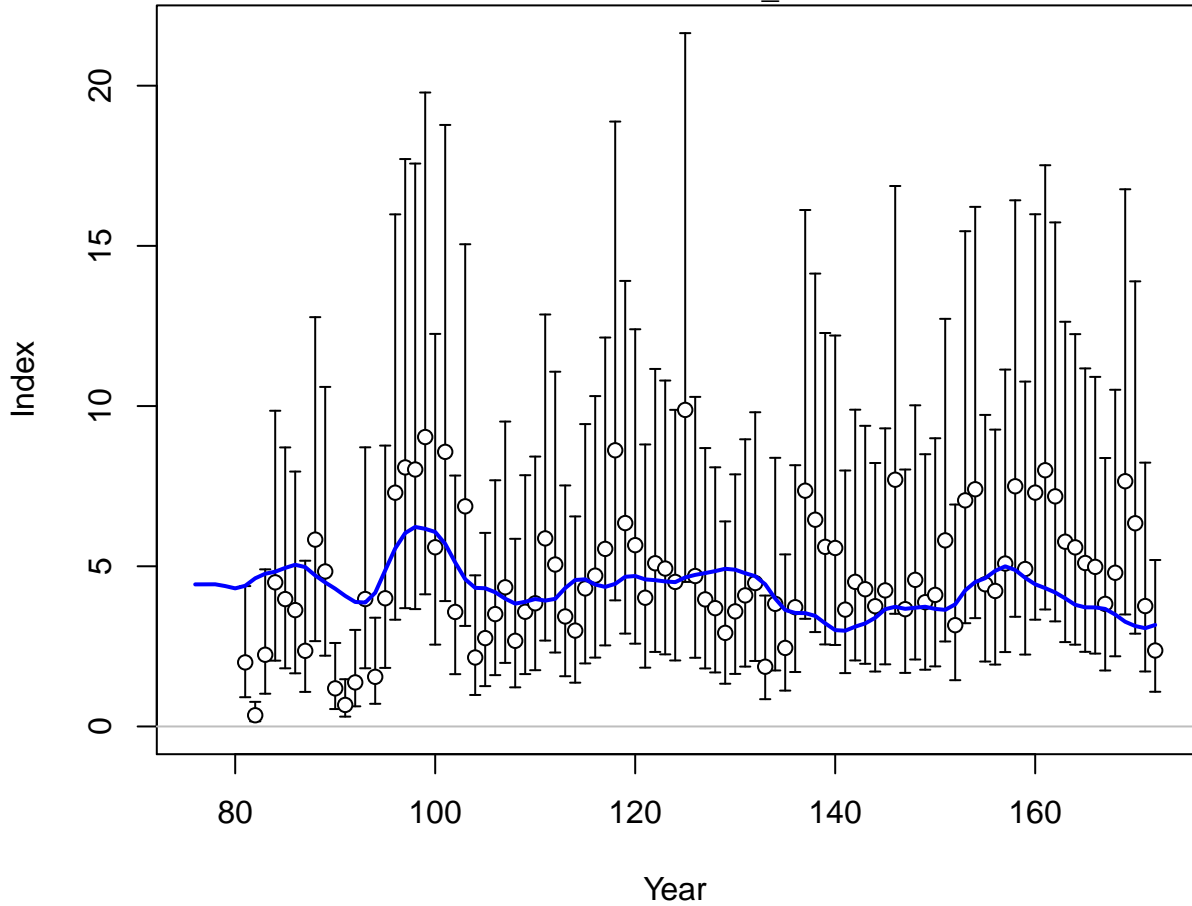


Index F5-OBJ_N

Index

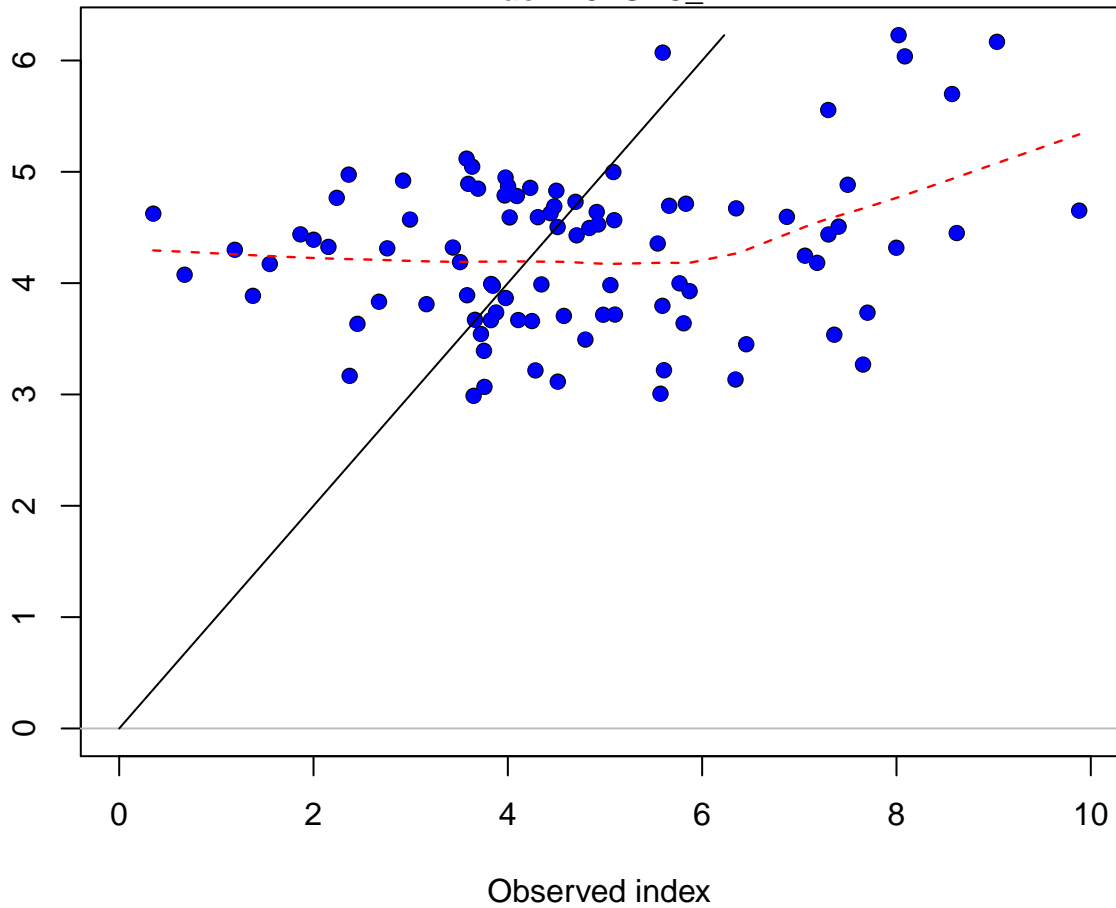


Index F5-OBJ_N



Index F5-OBJ_N

Expected index



Observed index

Log index F5-OBJ_N

Log index

3
2
1
0
-1
-2

80

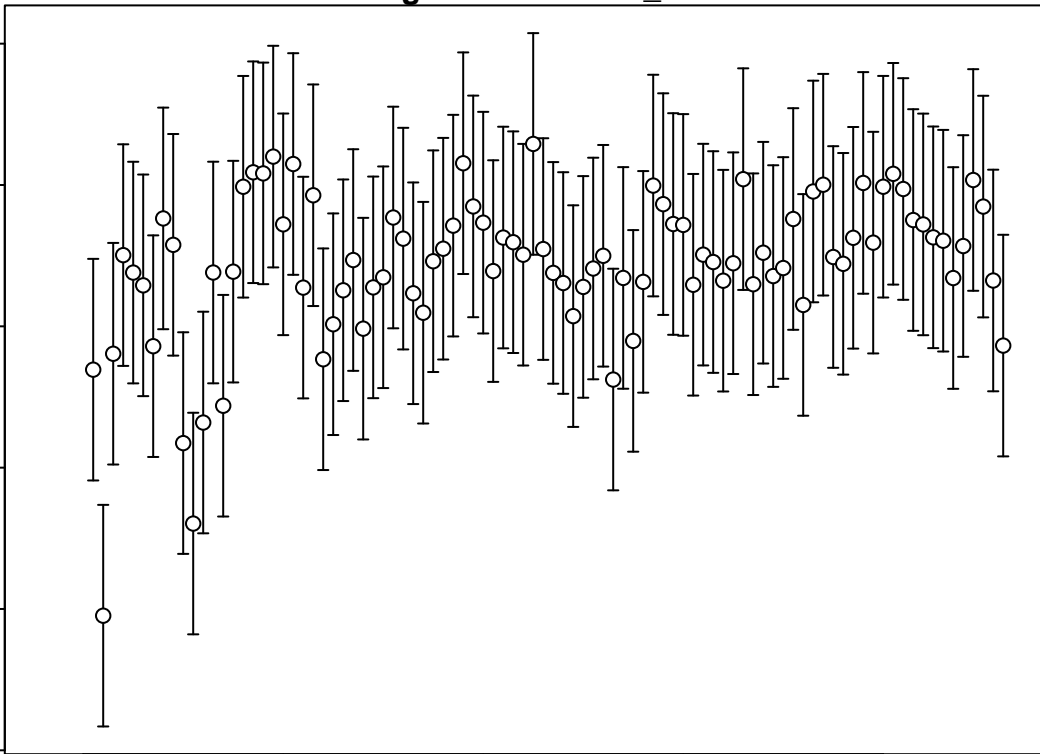
100

120

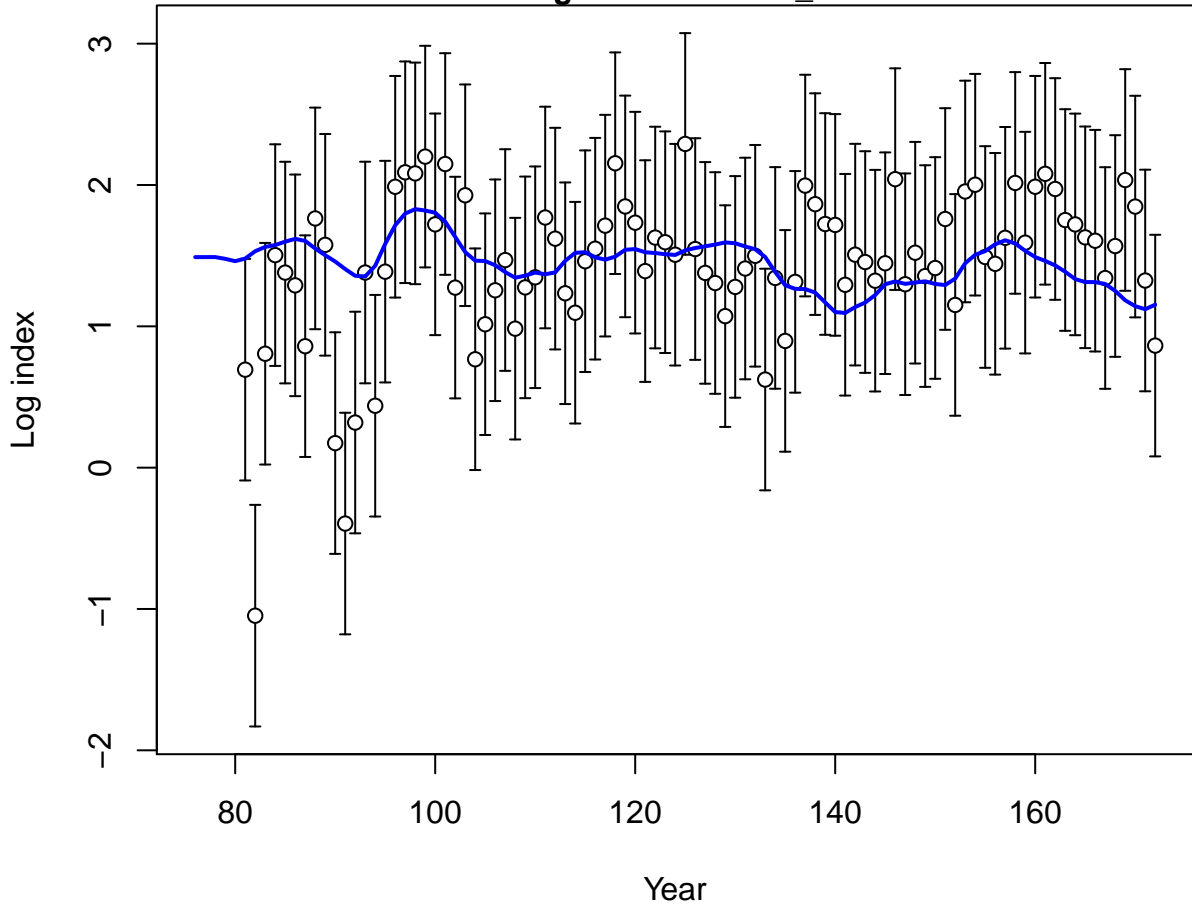
140

160

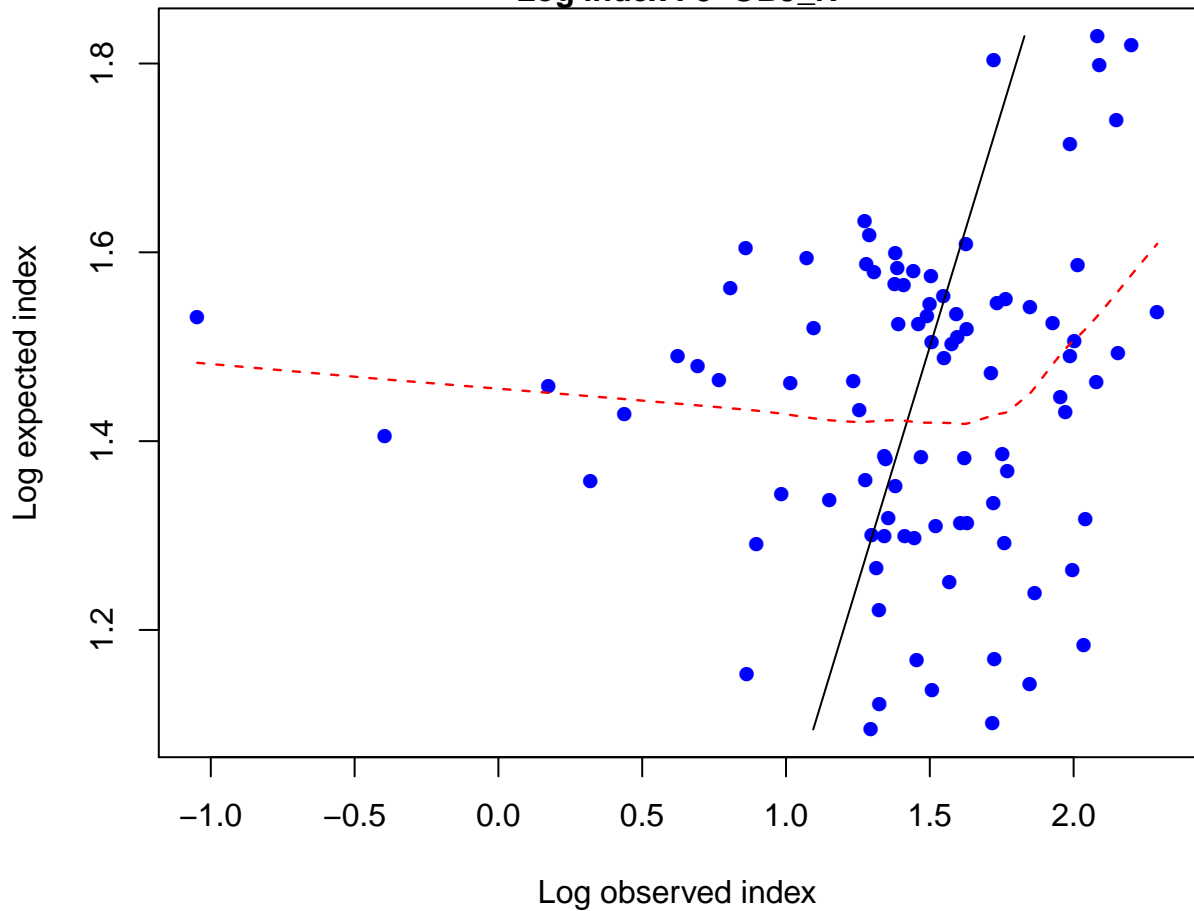
Year



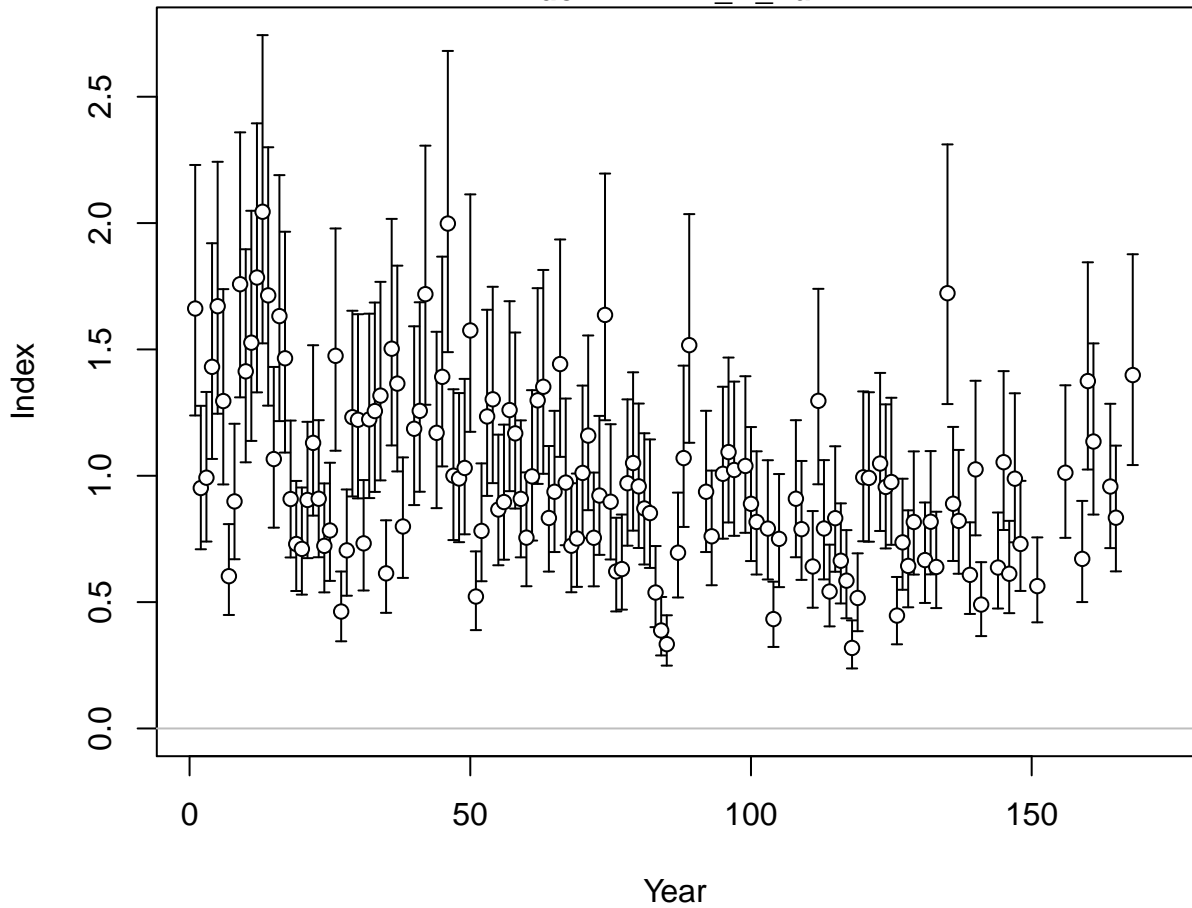
Log index F5-OBJ_N



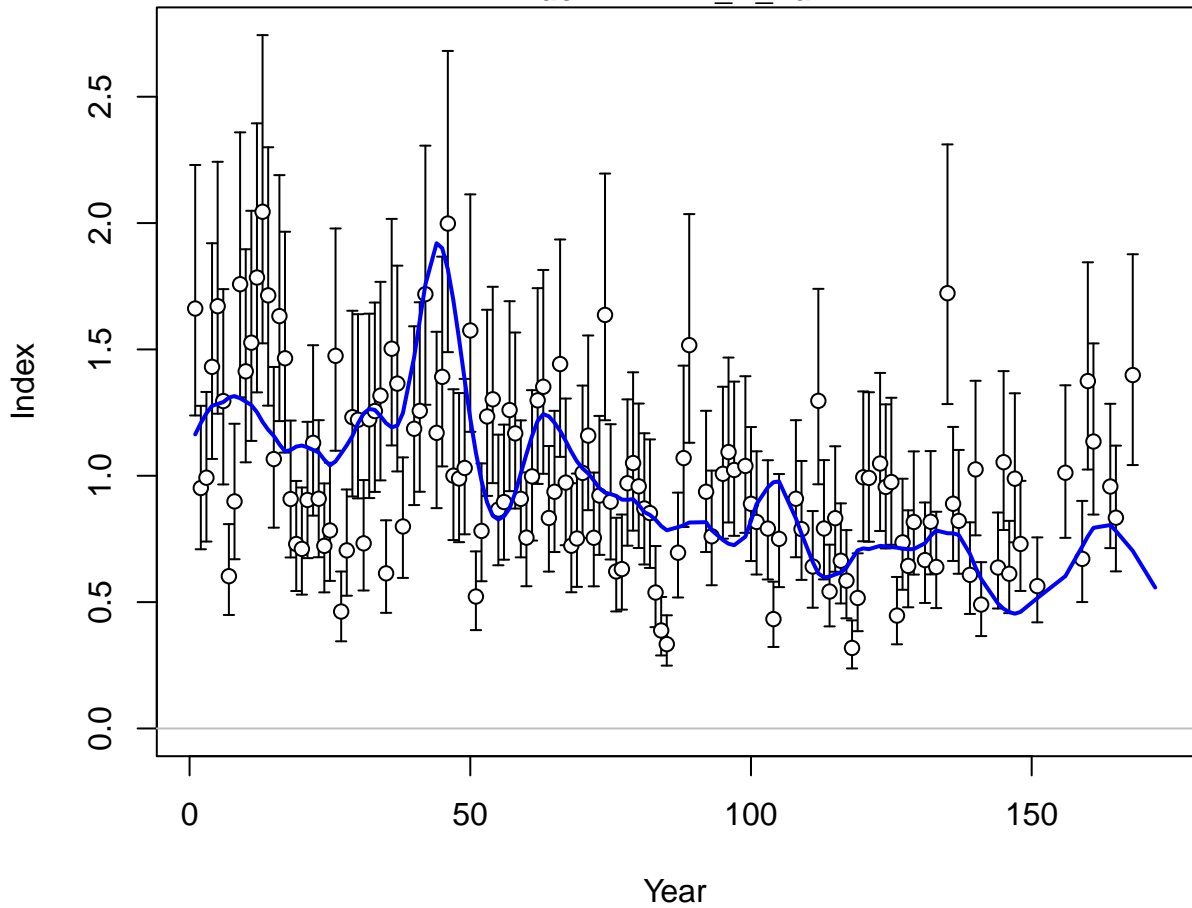
Log index F5-OBJ_N



Index F12-LL_N_num

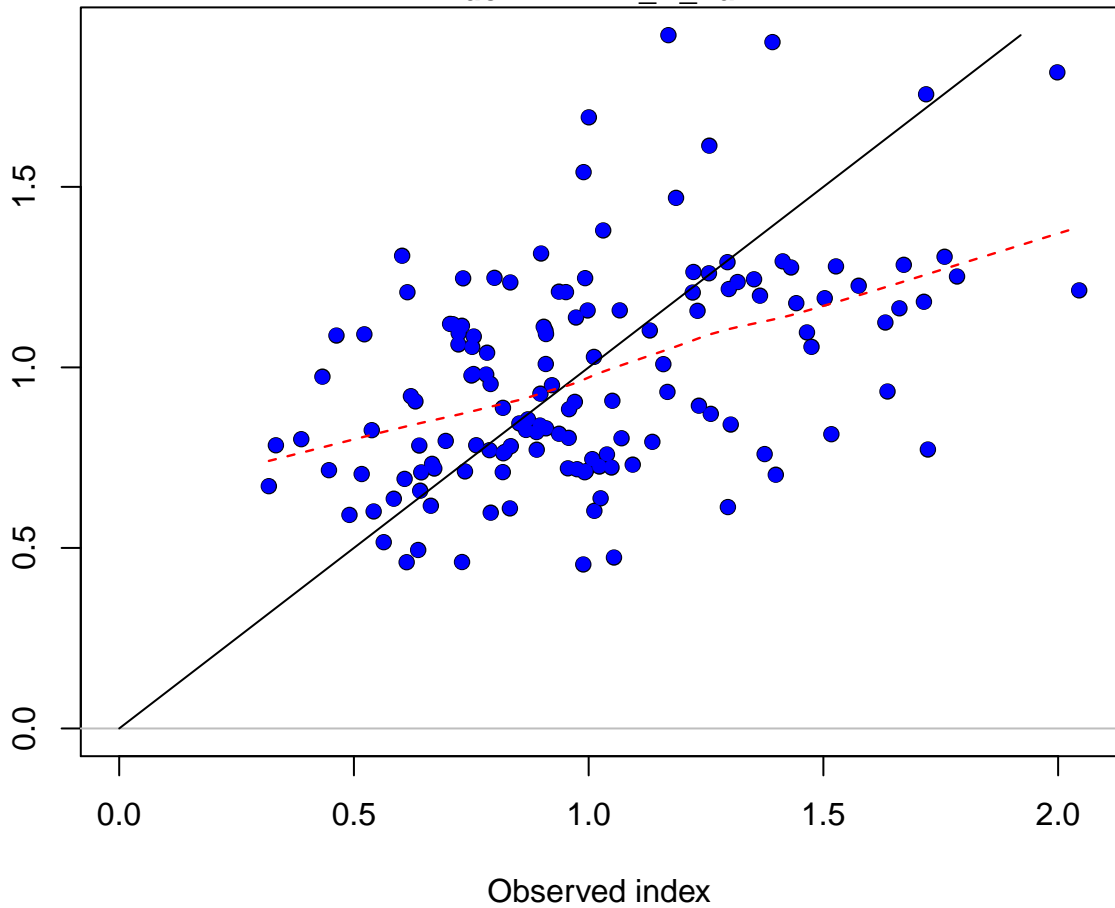


Index F12-LL_N_num



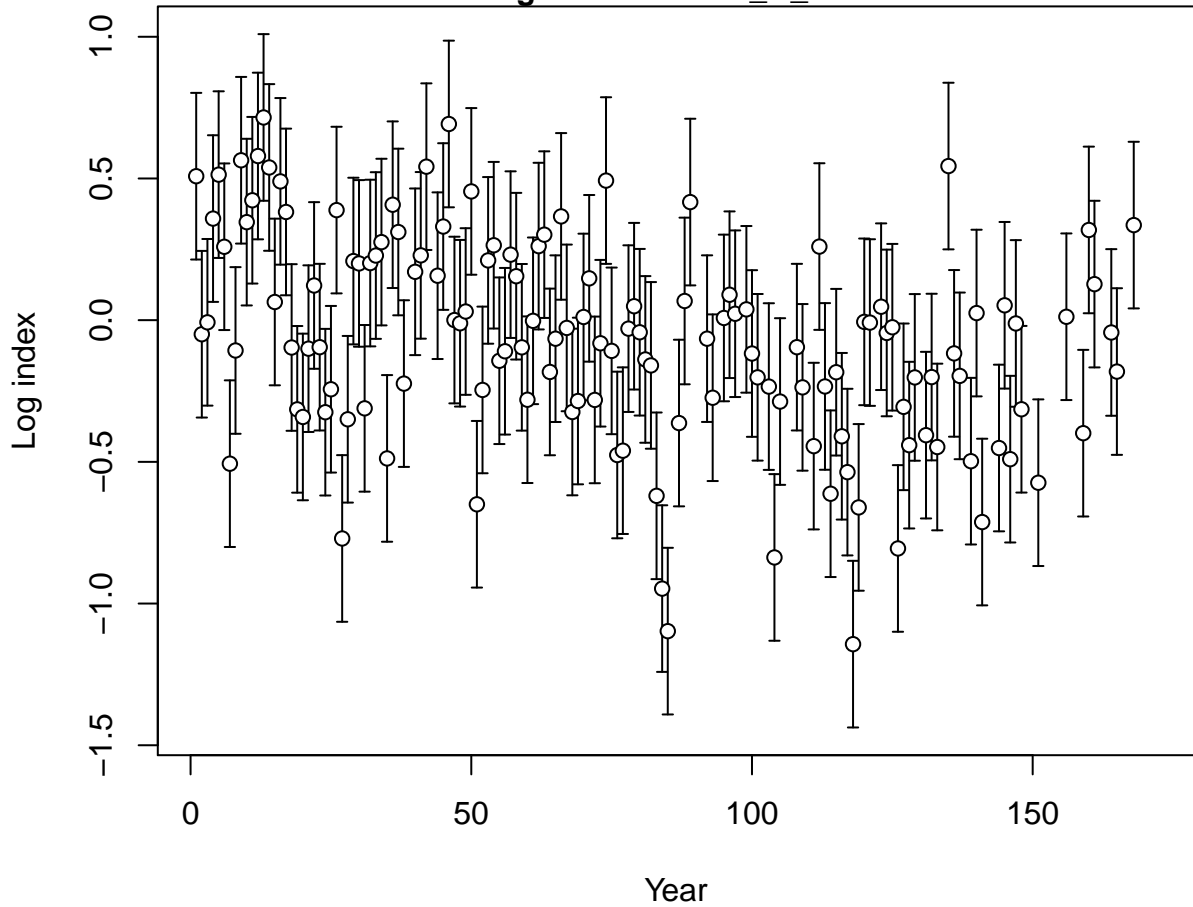
Index F12-LL_N_num

Expected index

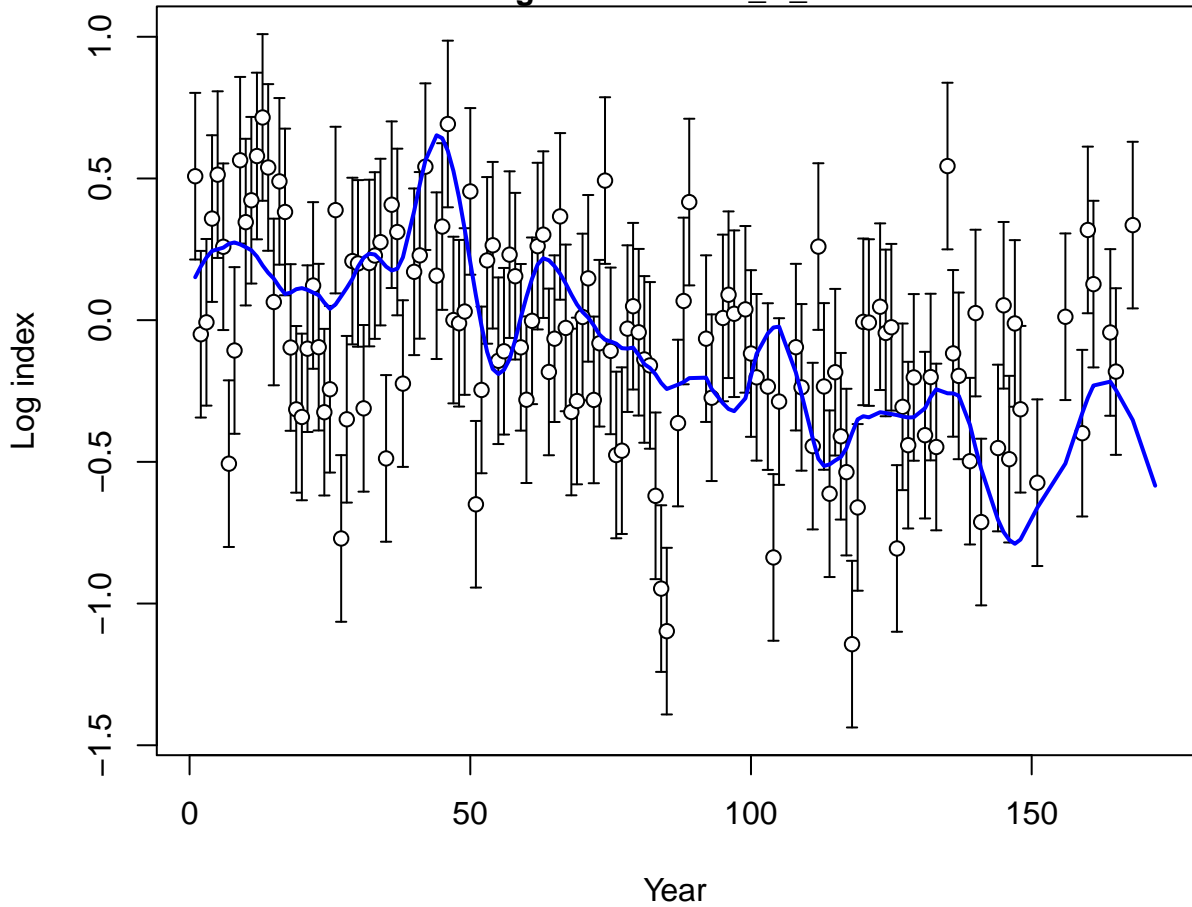


Observed index

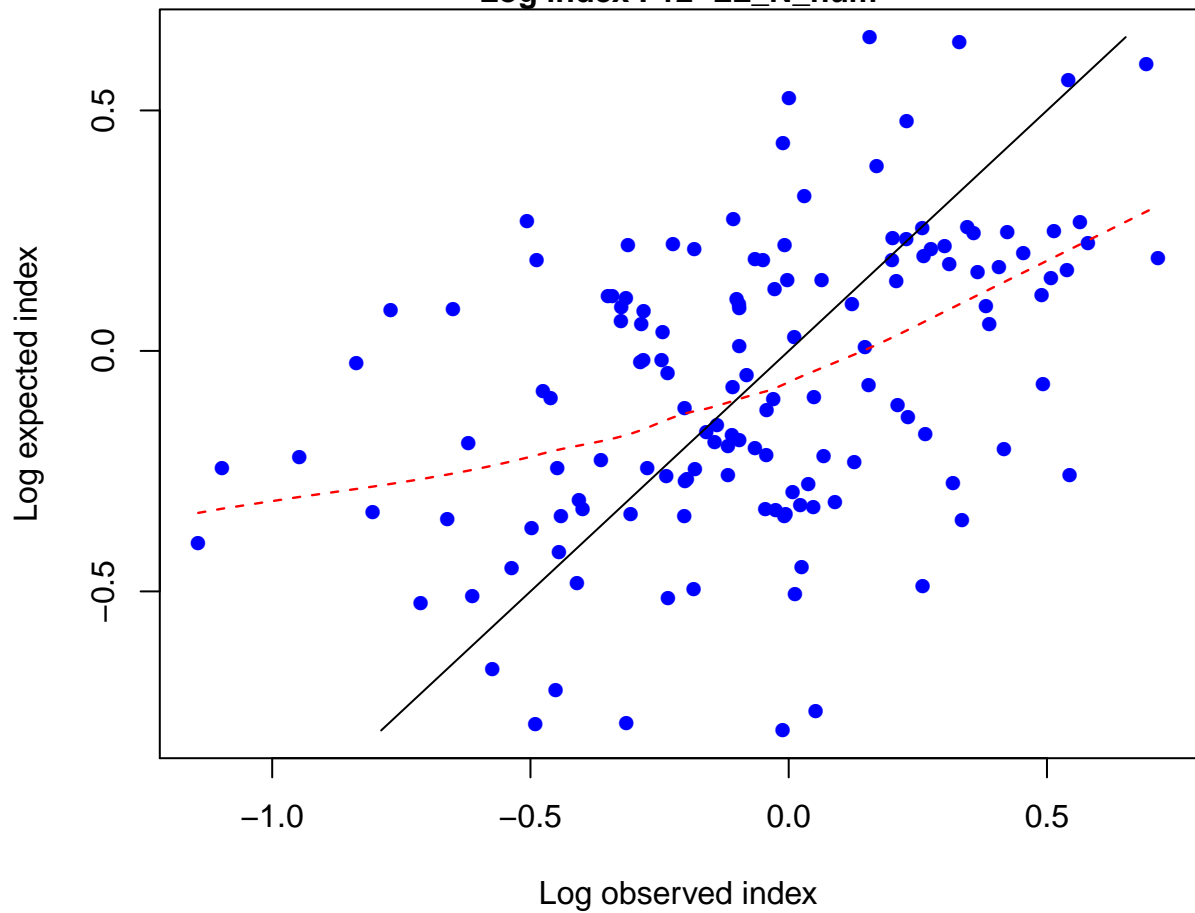
Log index F12-LL_N_num



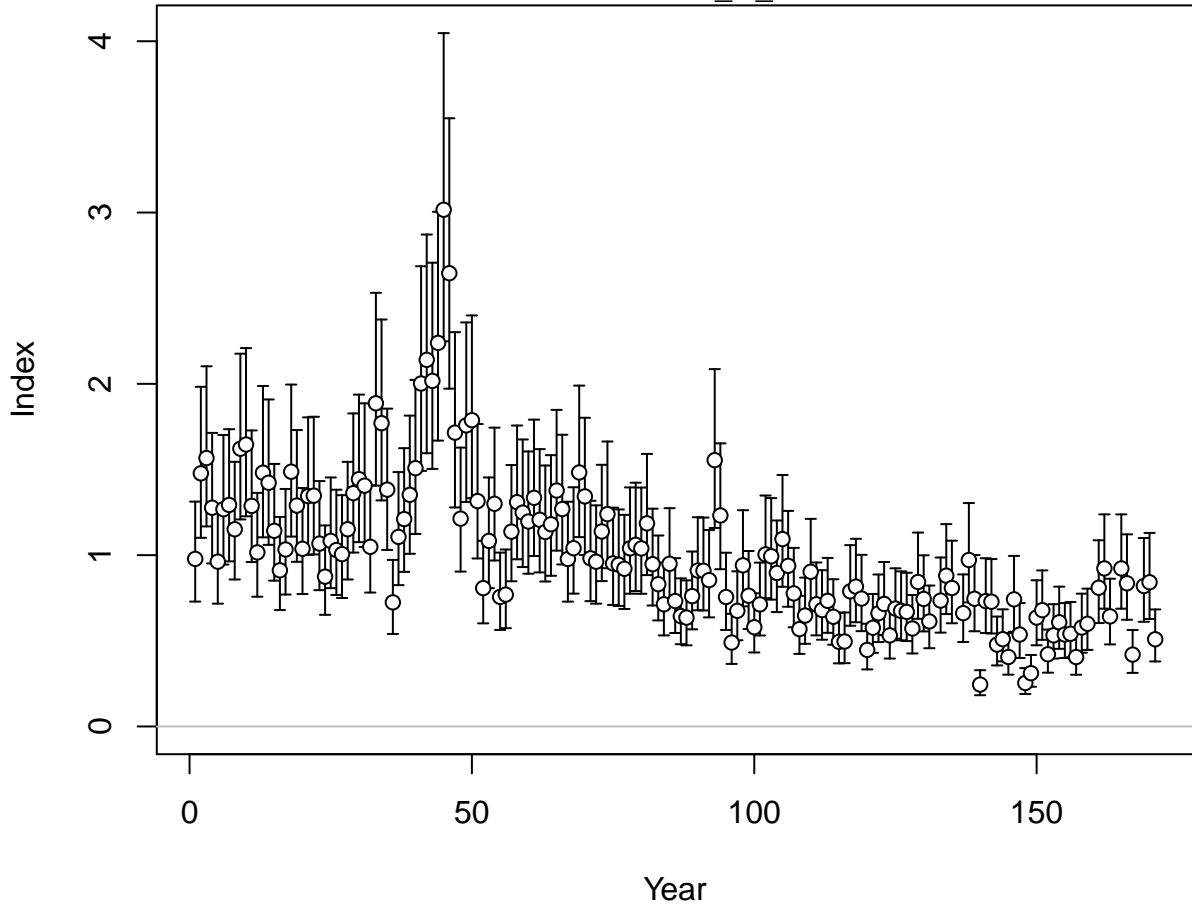
Log index F12-LL_N_num



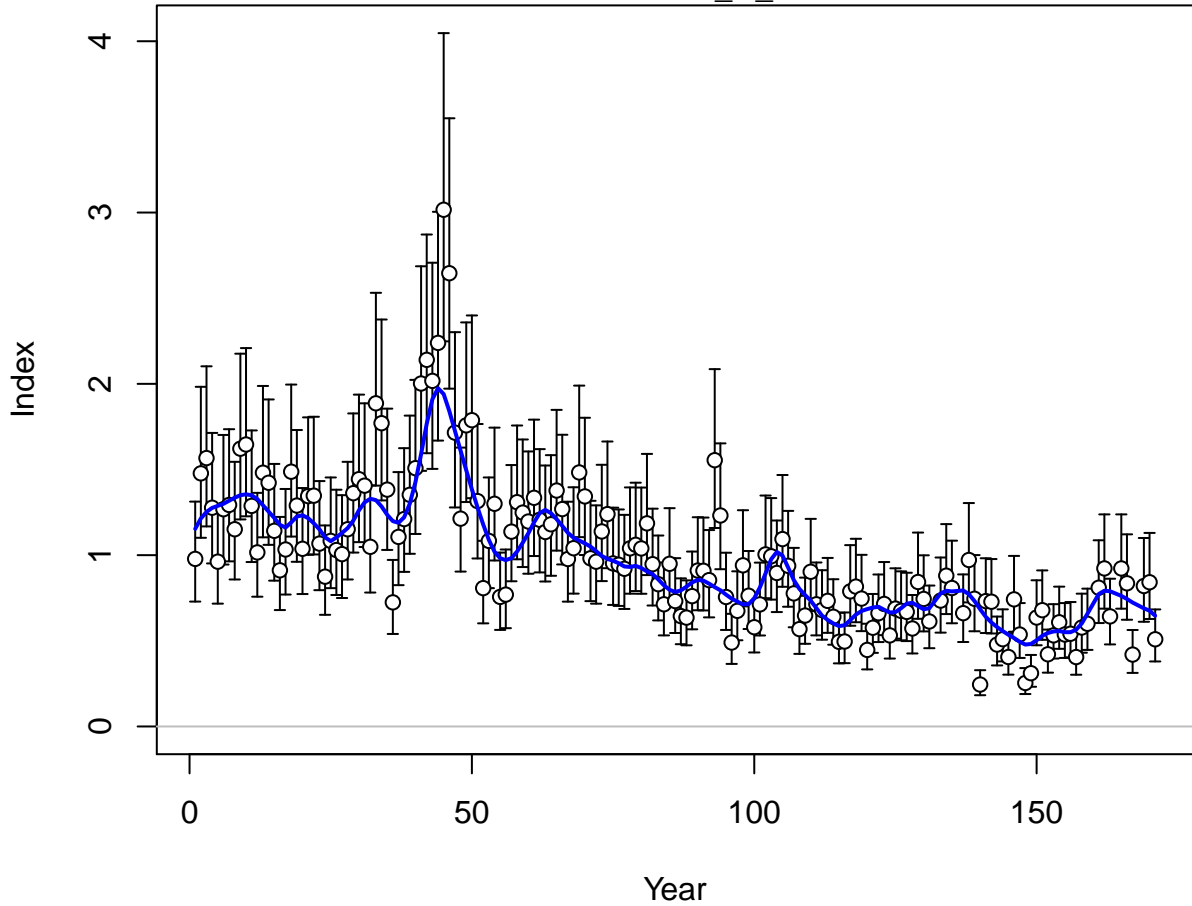
Log index F12-LL_N_num



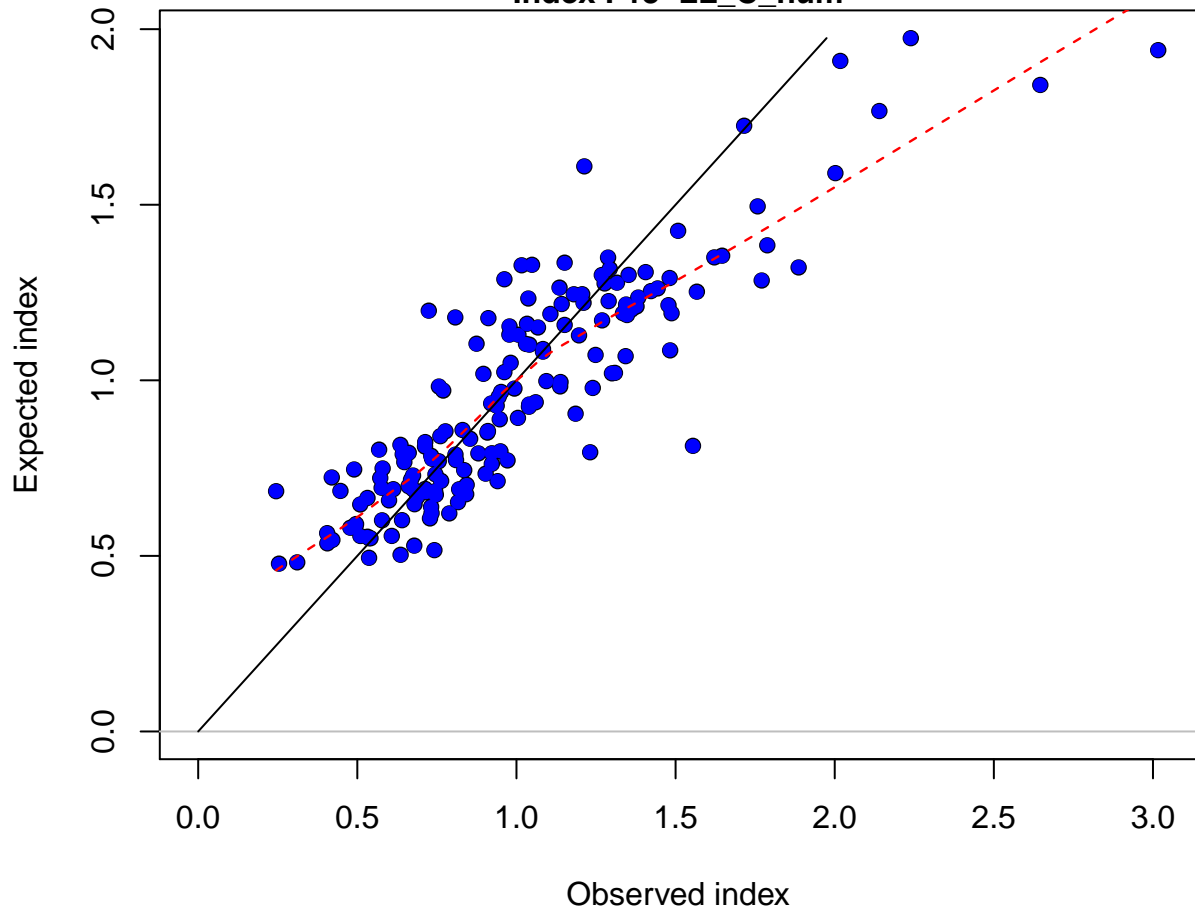
Index F13-LL_C_num



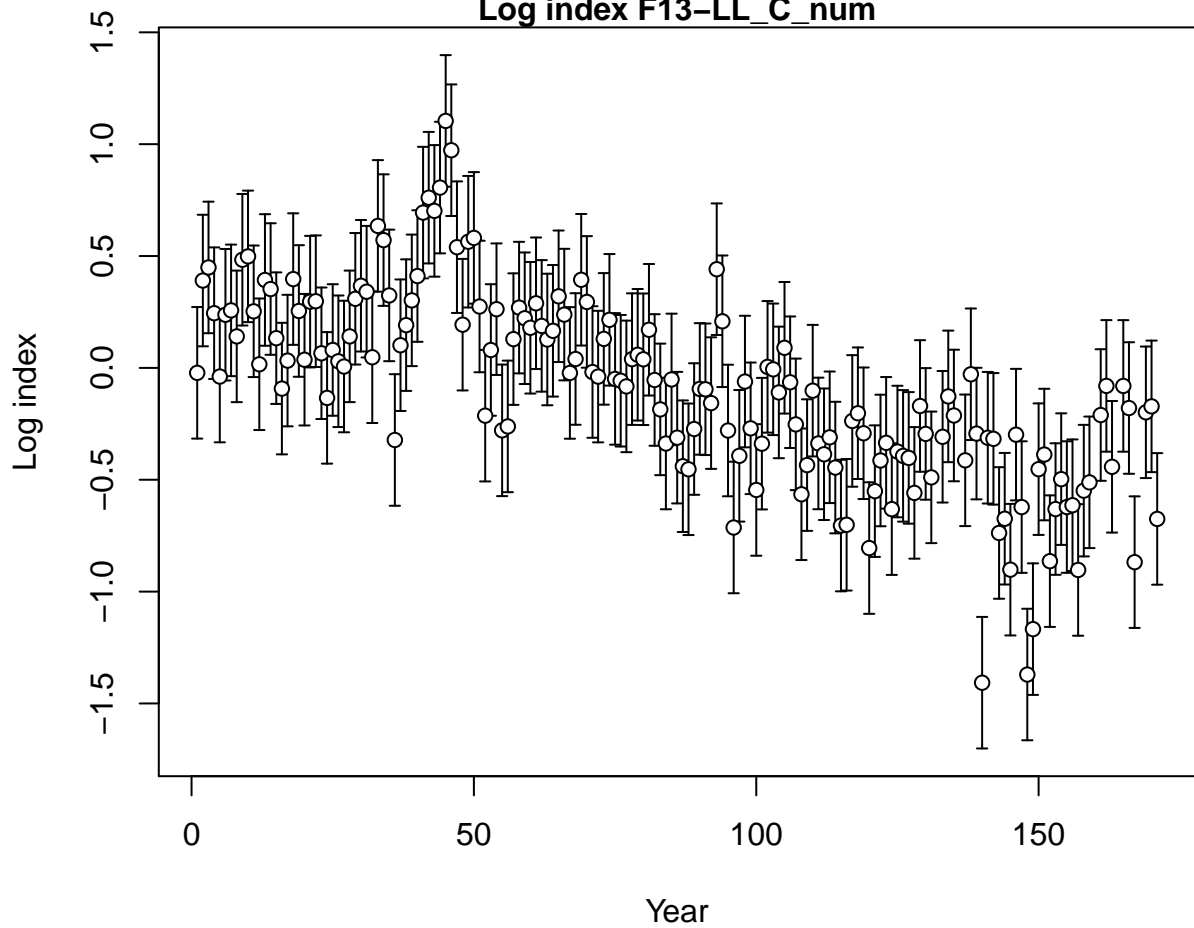
Index F13-LL_C_num



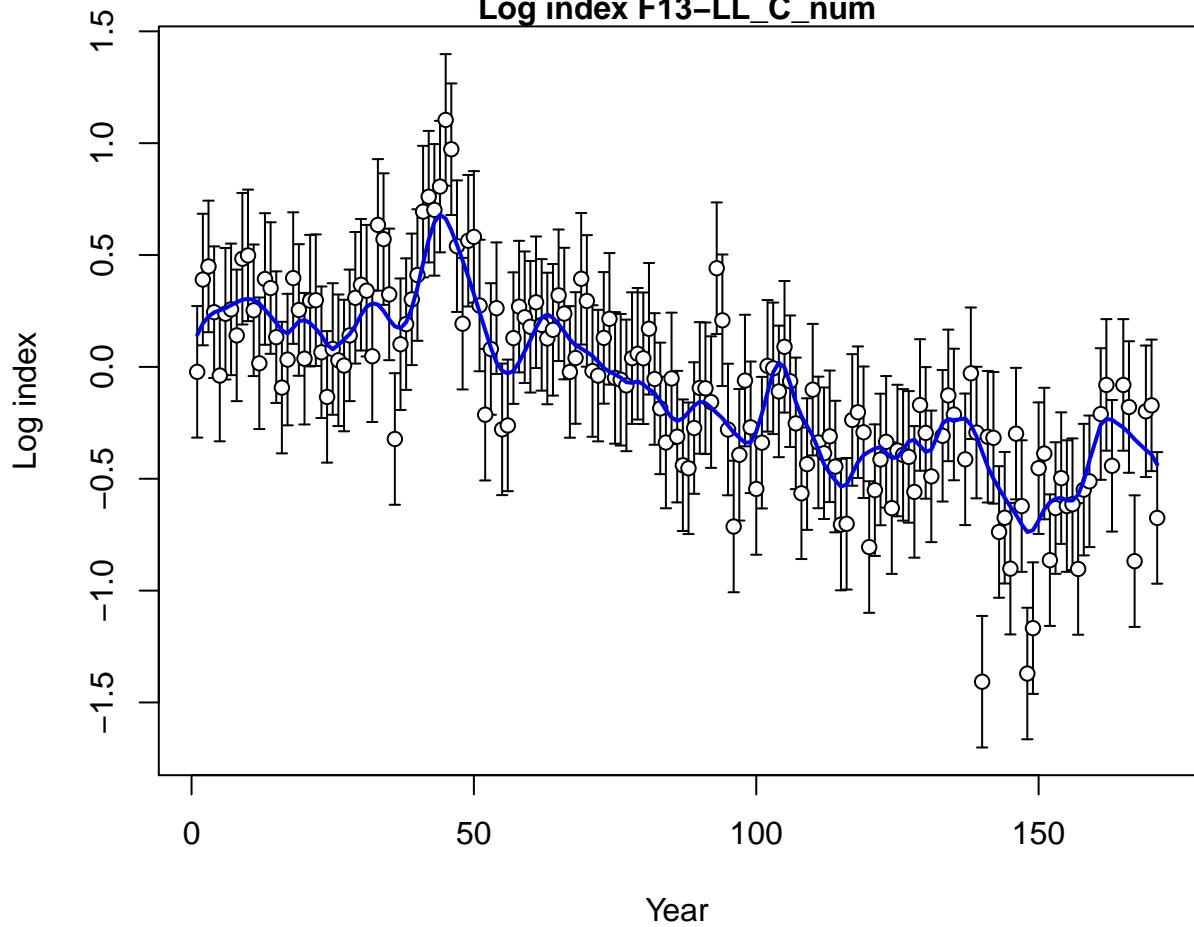
Index F13-LL_C_num



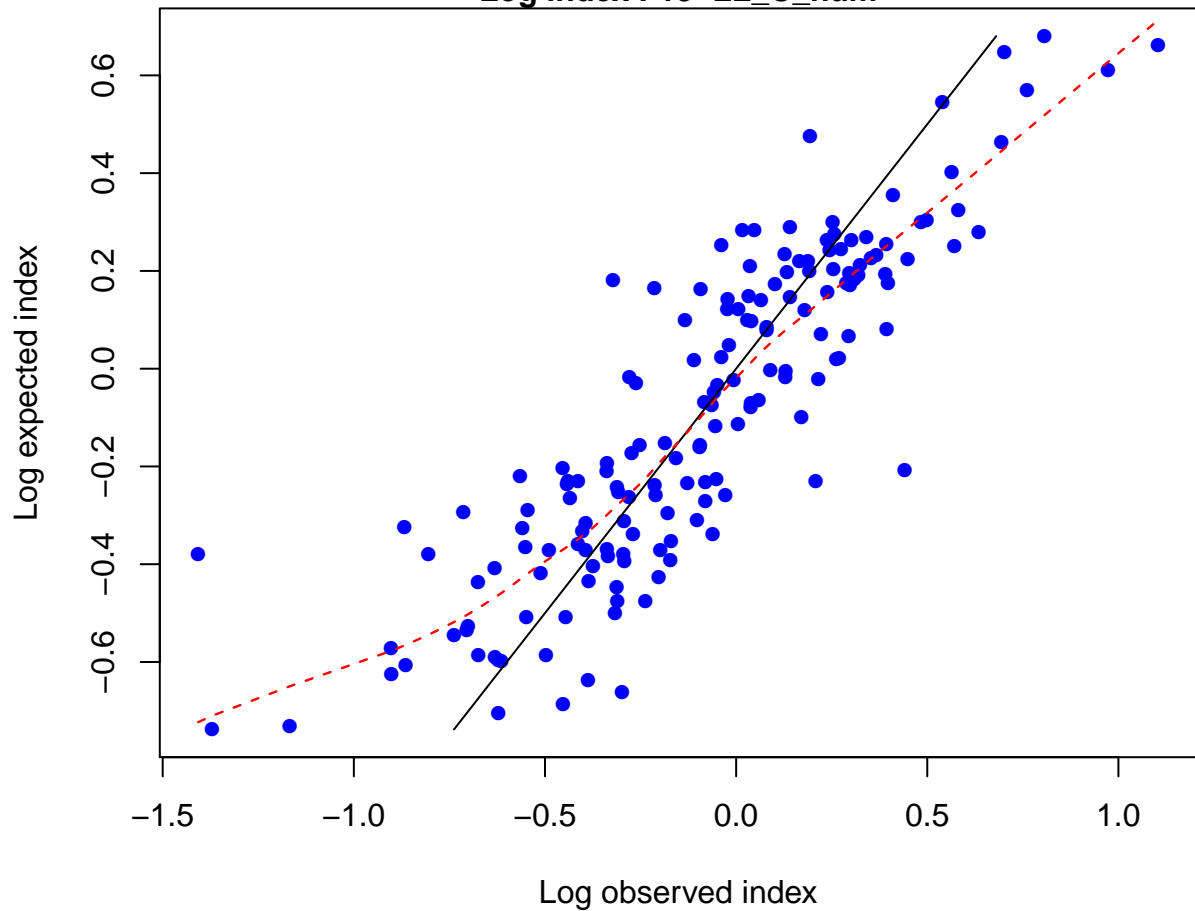
Log index F13-LL_C_num



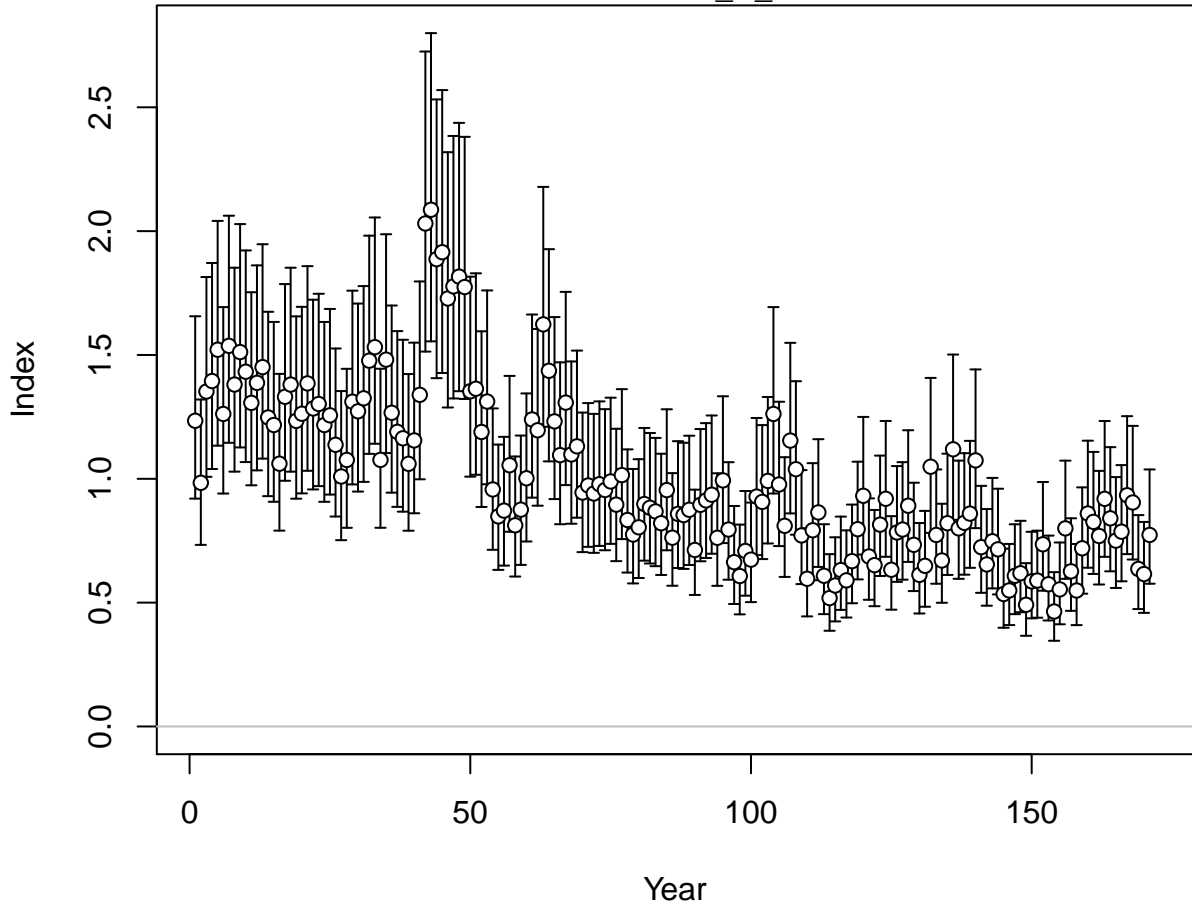
Log index F13-LL_C_num



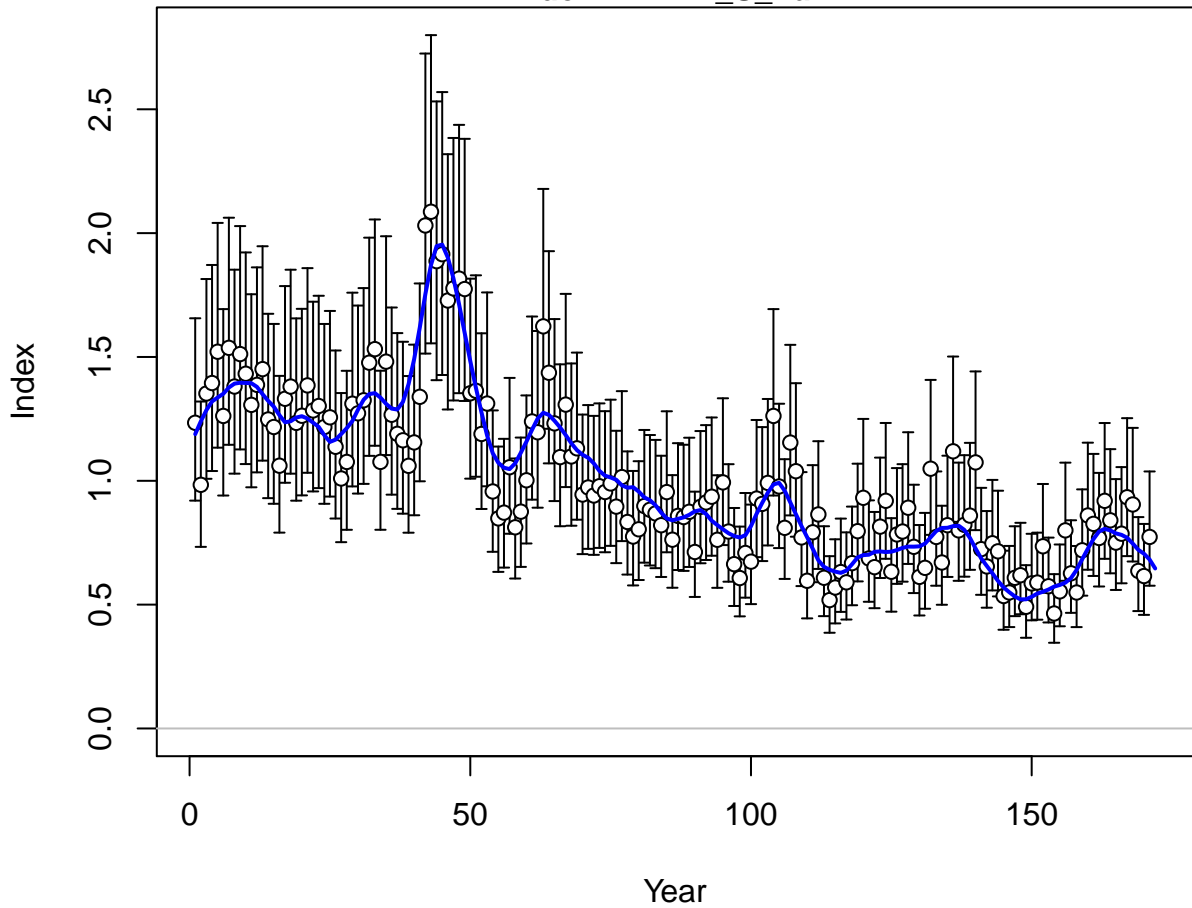
Log index F13-LL_C_num



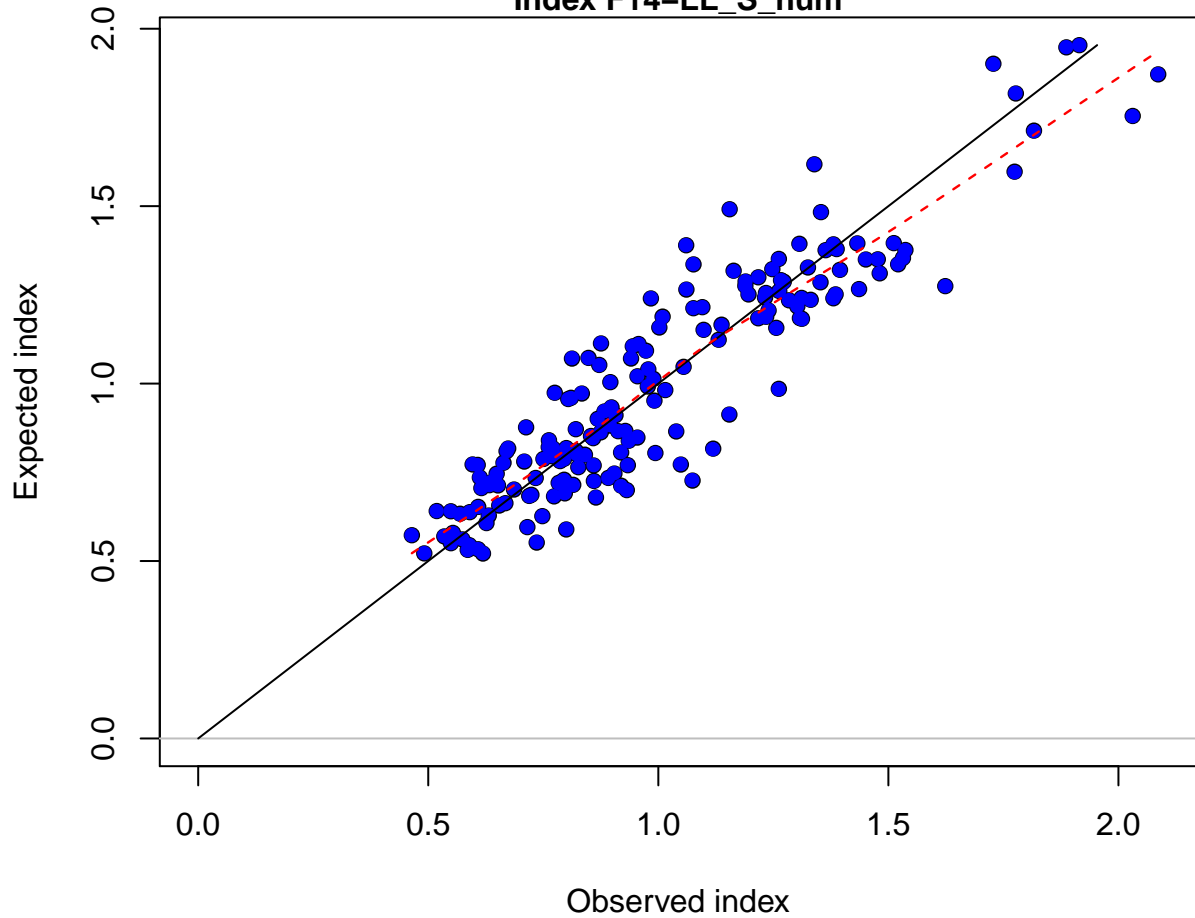
Index F14-LL_S_num



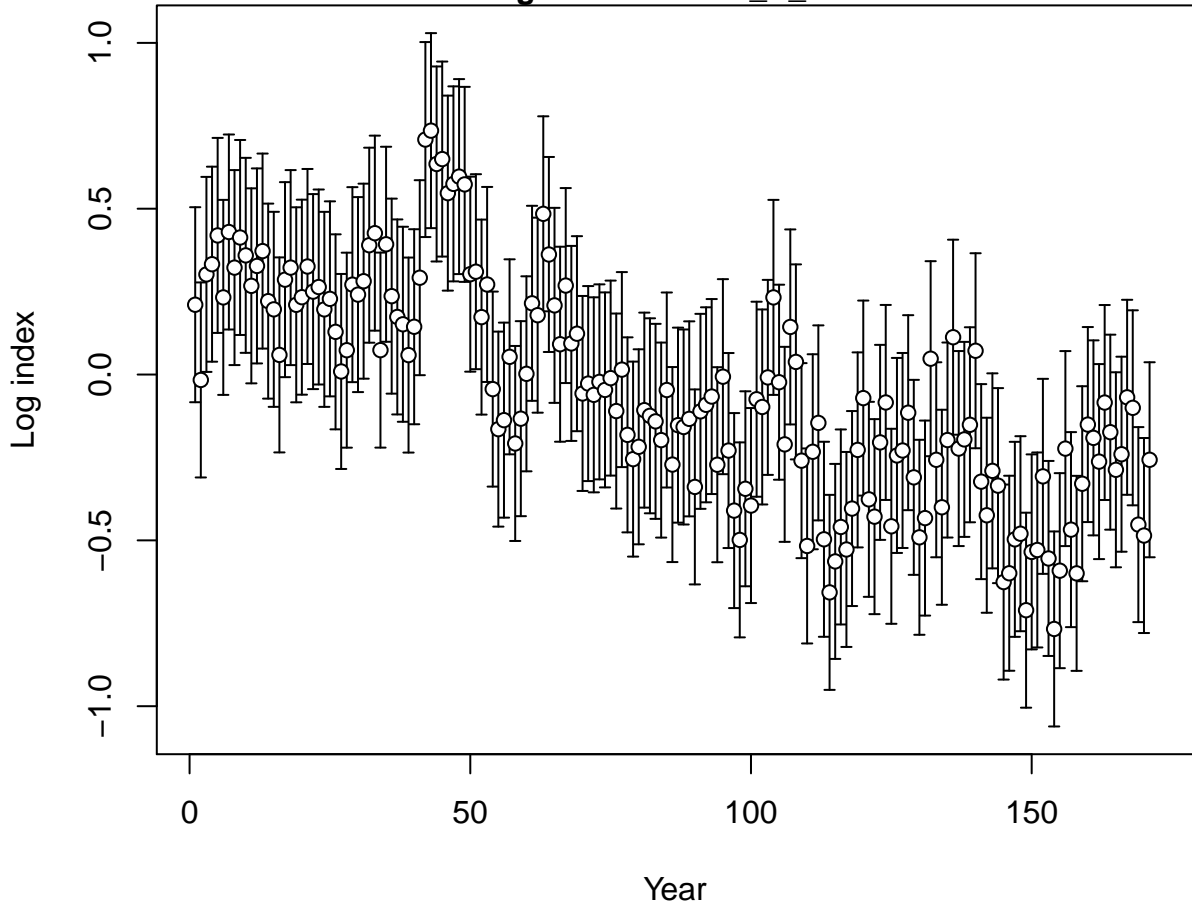
Index F14-LL_S_num



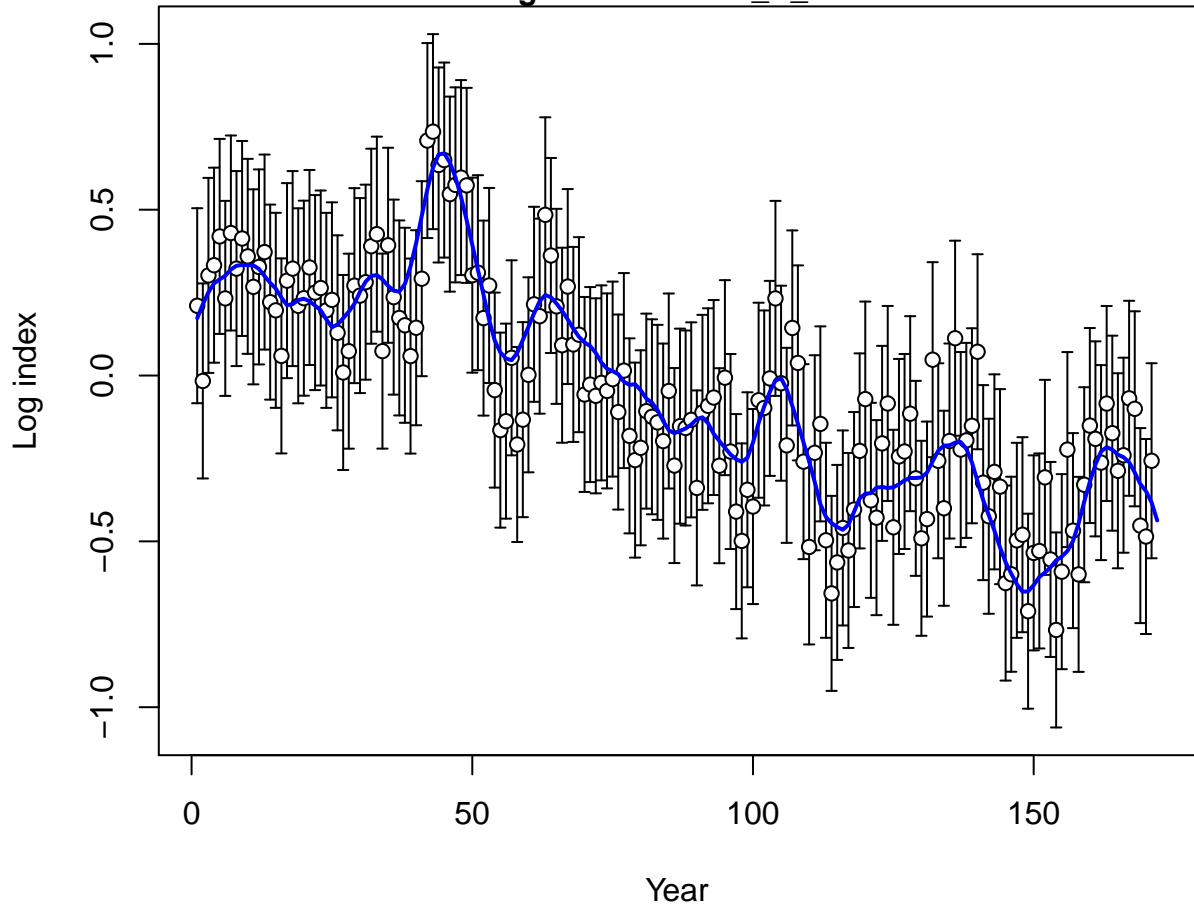
Index F14-LL_S_num



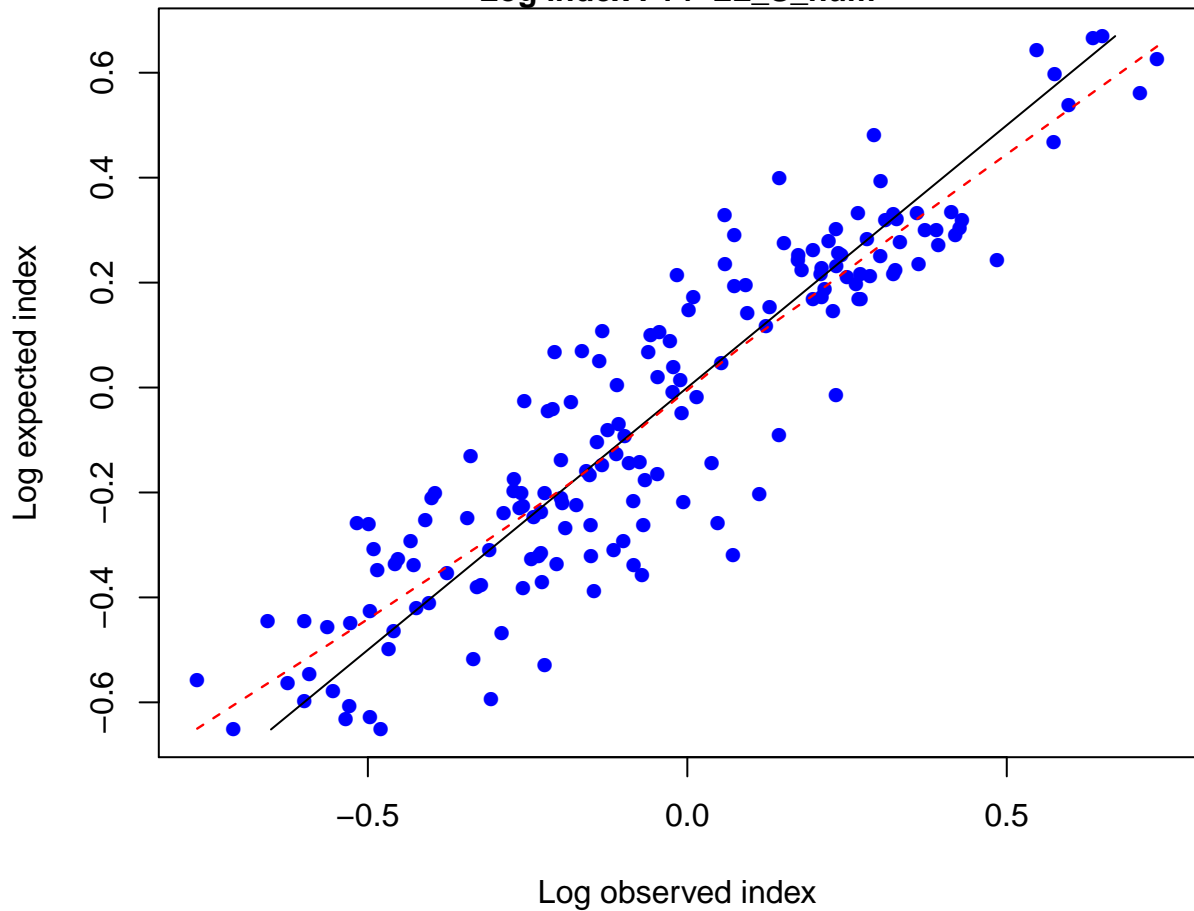
Log index F14-LL_S_num



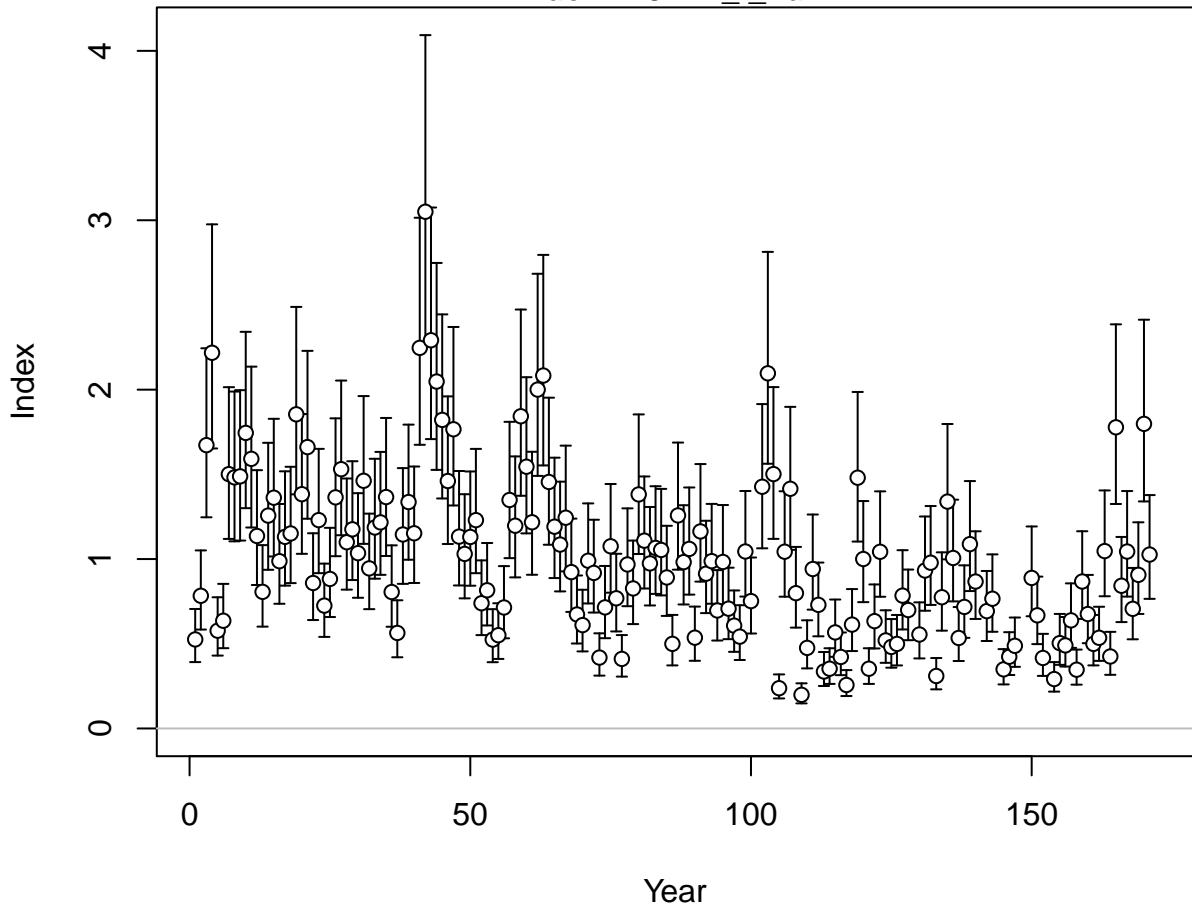
Log index F14-LL_S_num



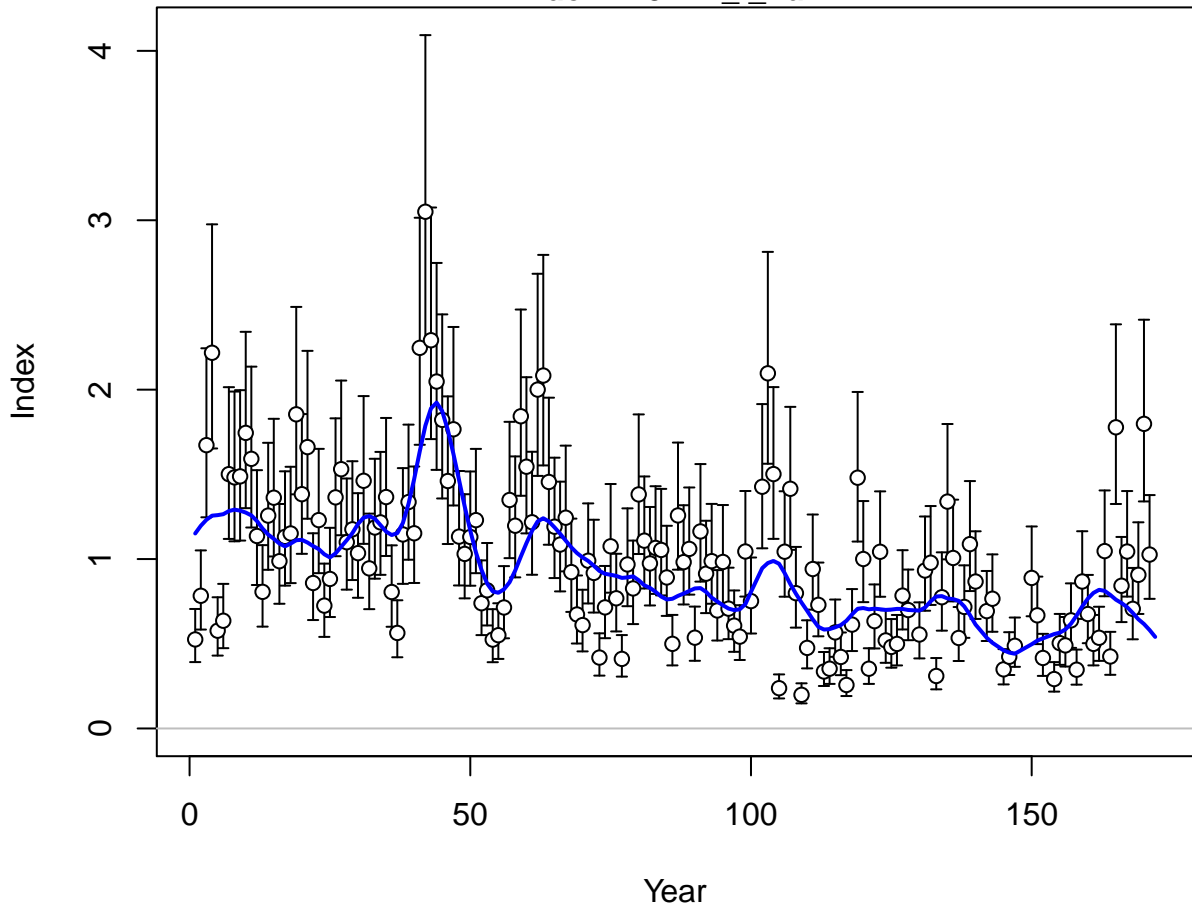
Log index F14-LL_S_num



Index F15-LL_I_num

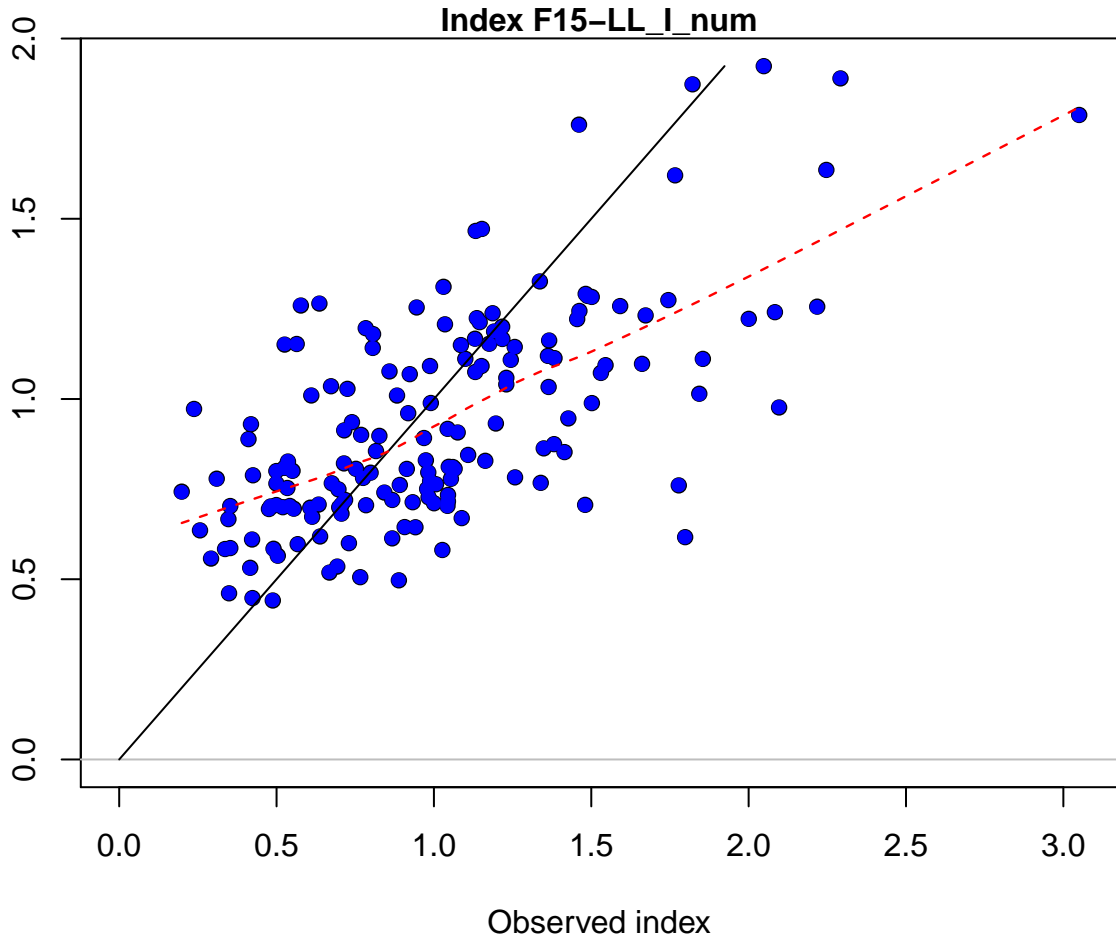


Index F15-LL_I_num



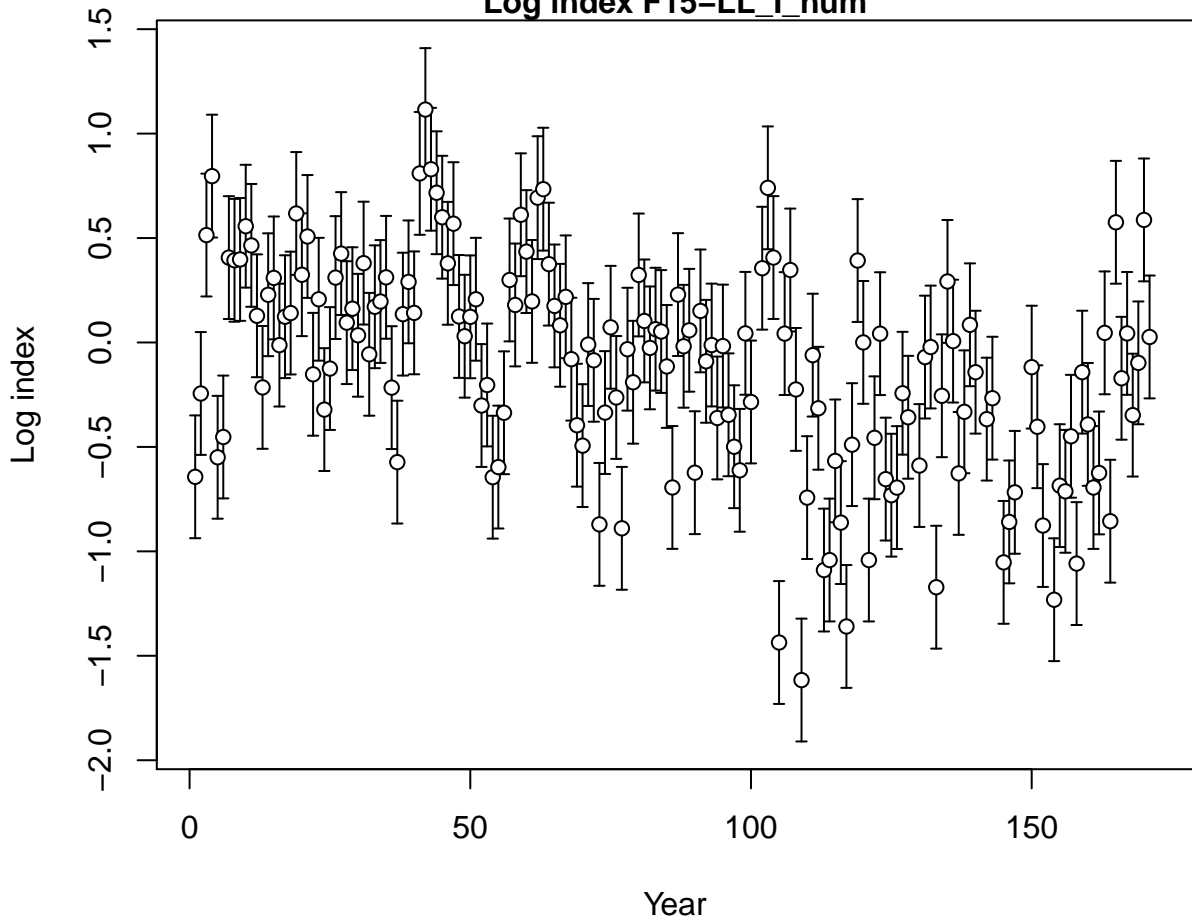
Index F15-LL_I_num

Expected index

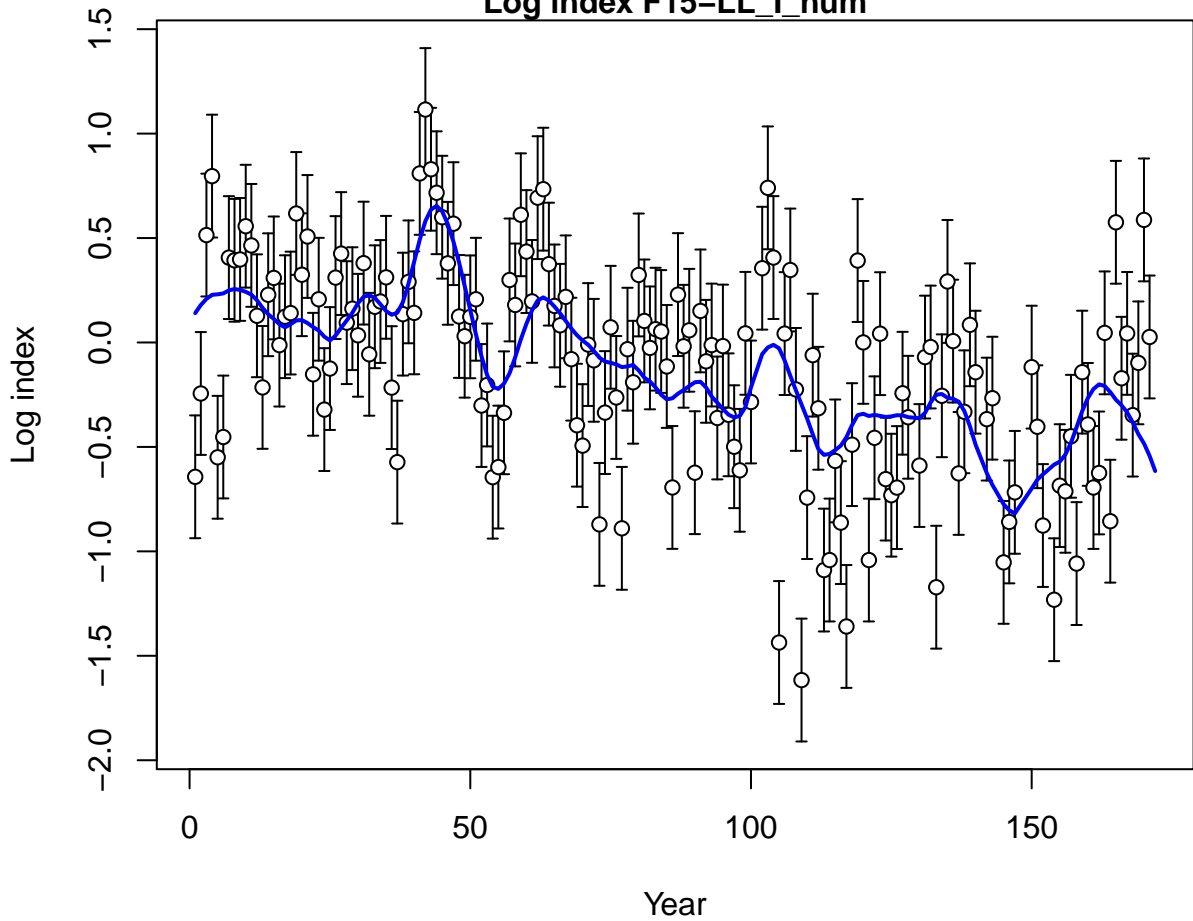


Observed index

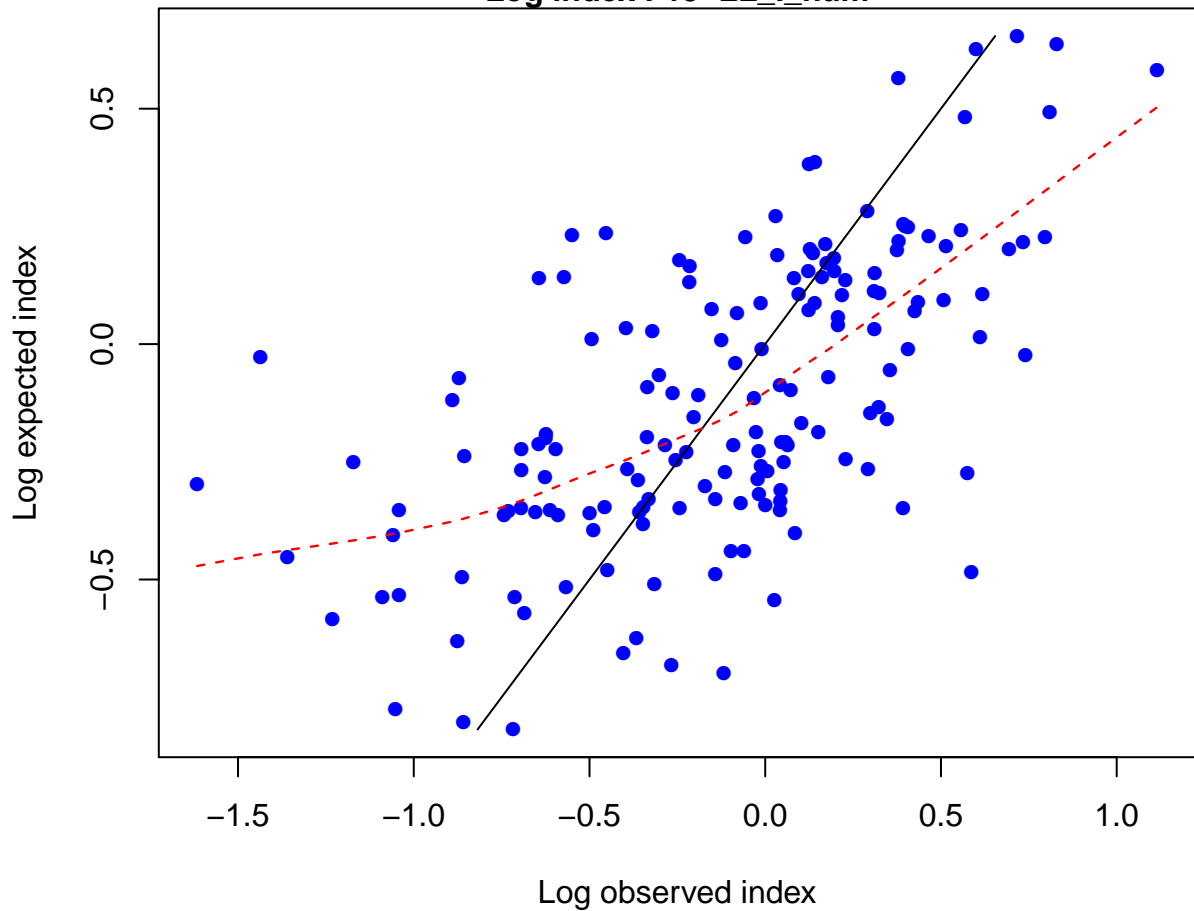
Log index F15-LL_I_num



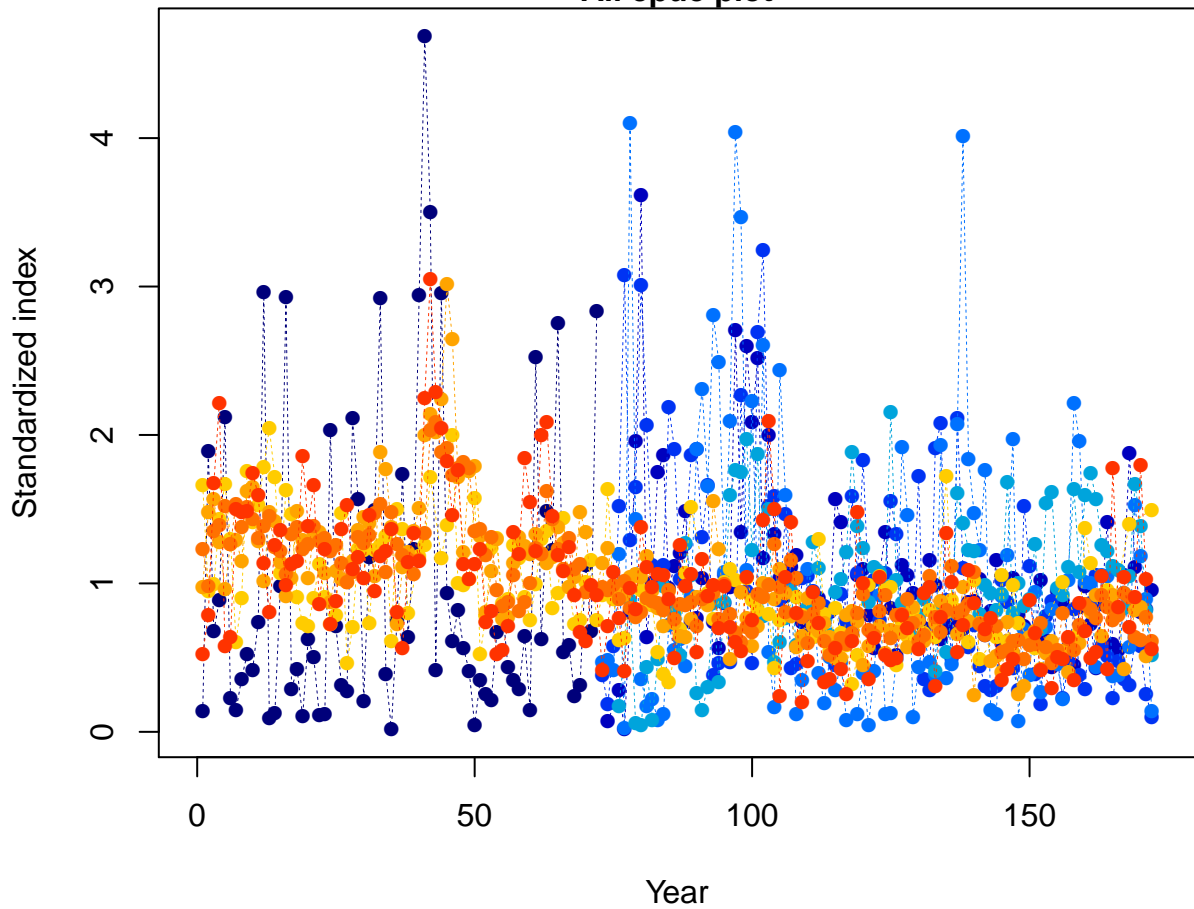
Log index F15-LL_I_num



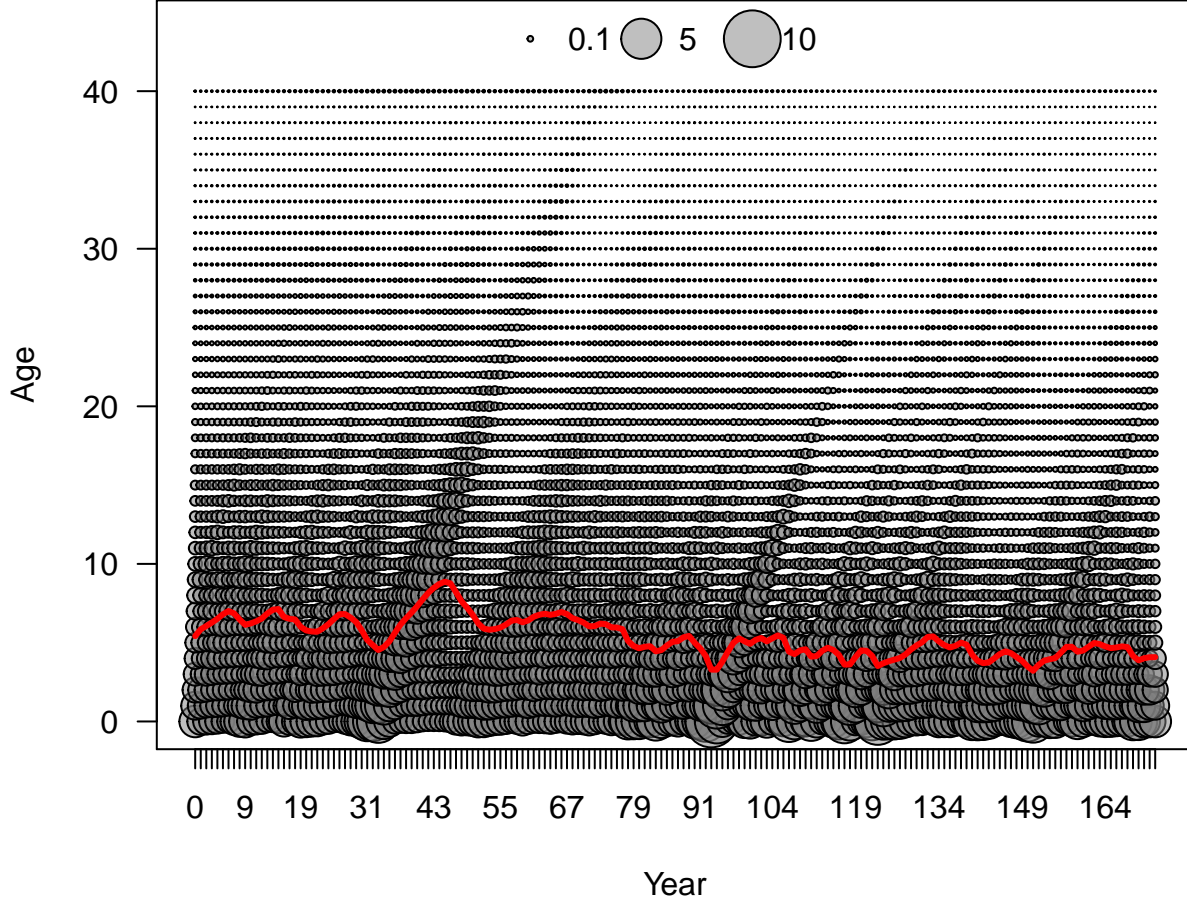
Log index F15-LL_I_num



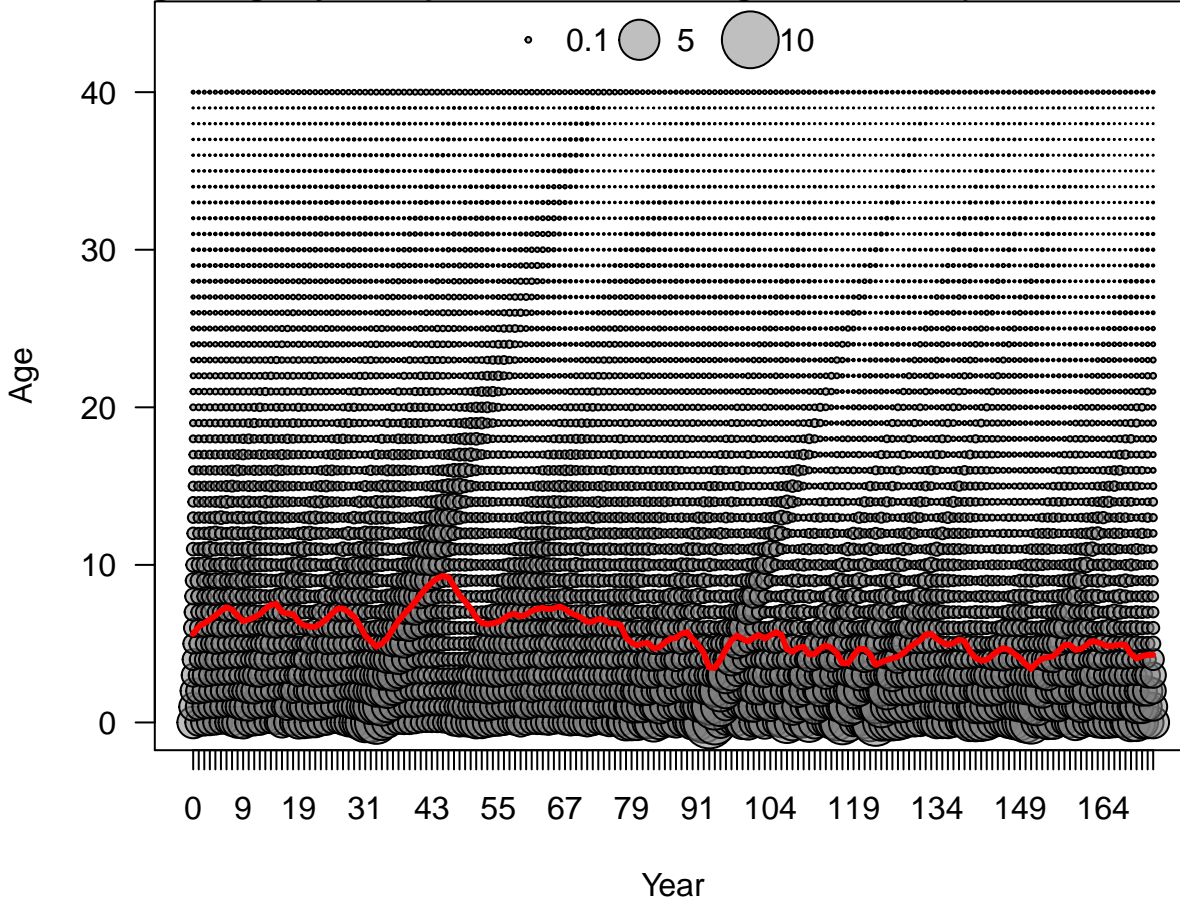
All cpue plot



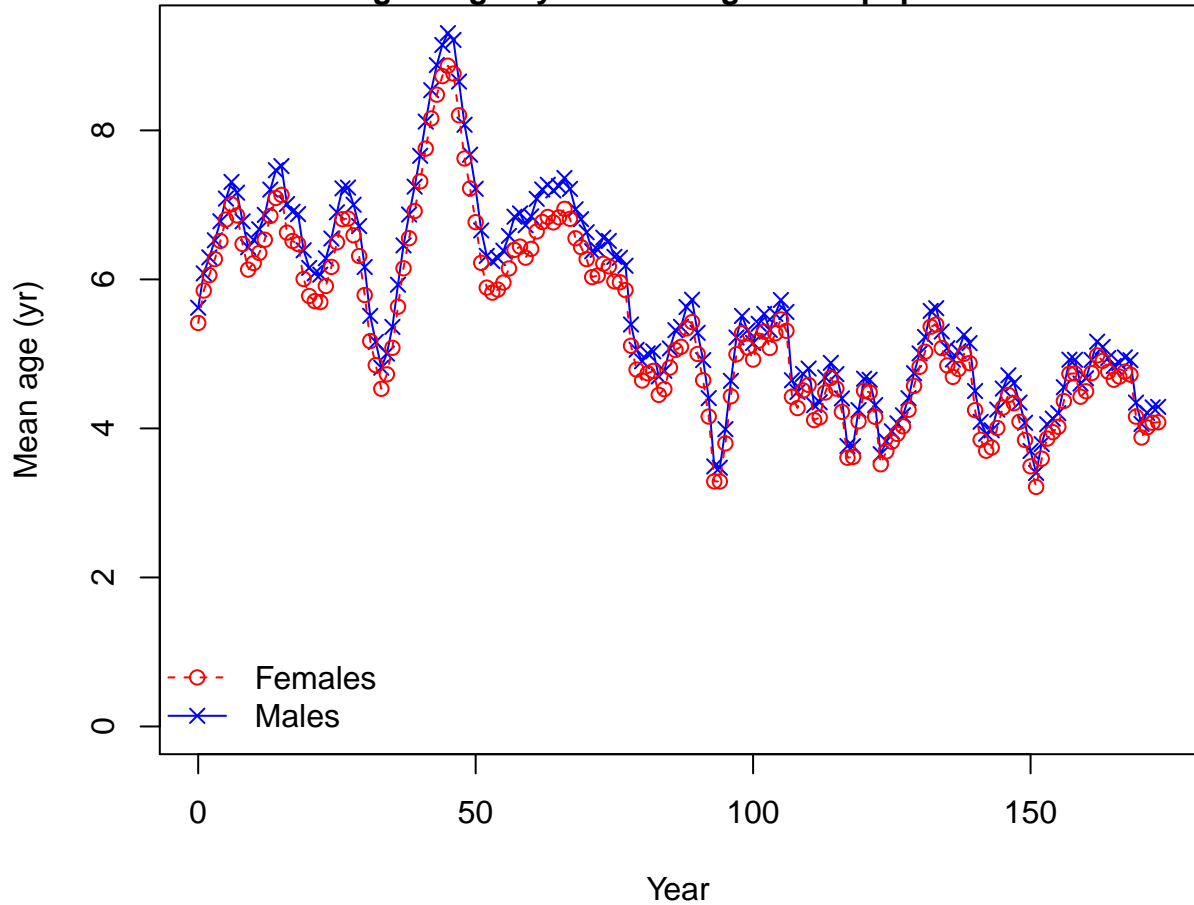
Beginning of year expected numbers at age of females in (max ~ 8.3 million)



Beginning of year expected numbers at age of males in (max ~ 8.3 million)



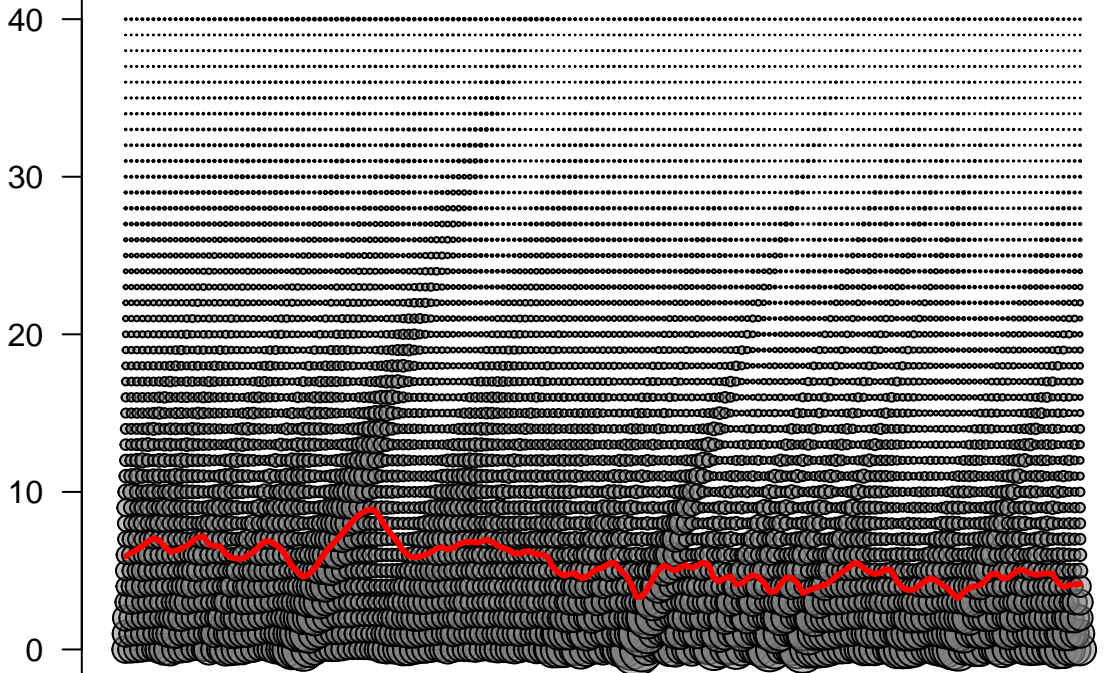
Beginning of year mean age in the population



Middle of year expected numbers at age of females in (max ~ 7.4 million)

Age

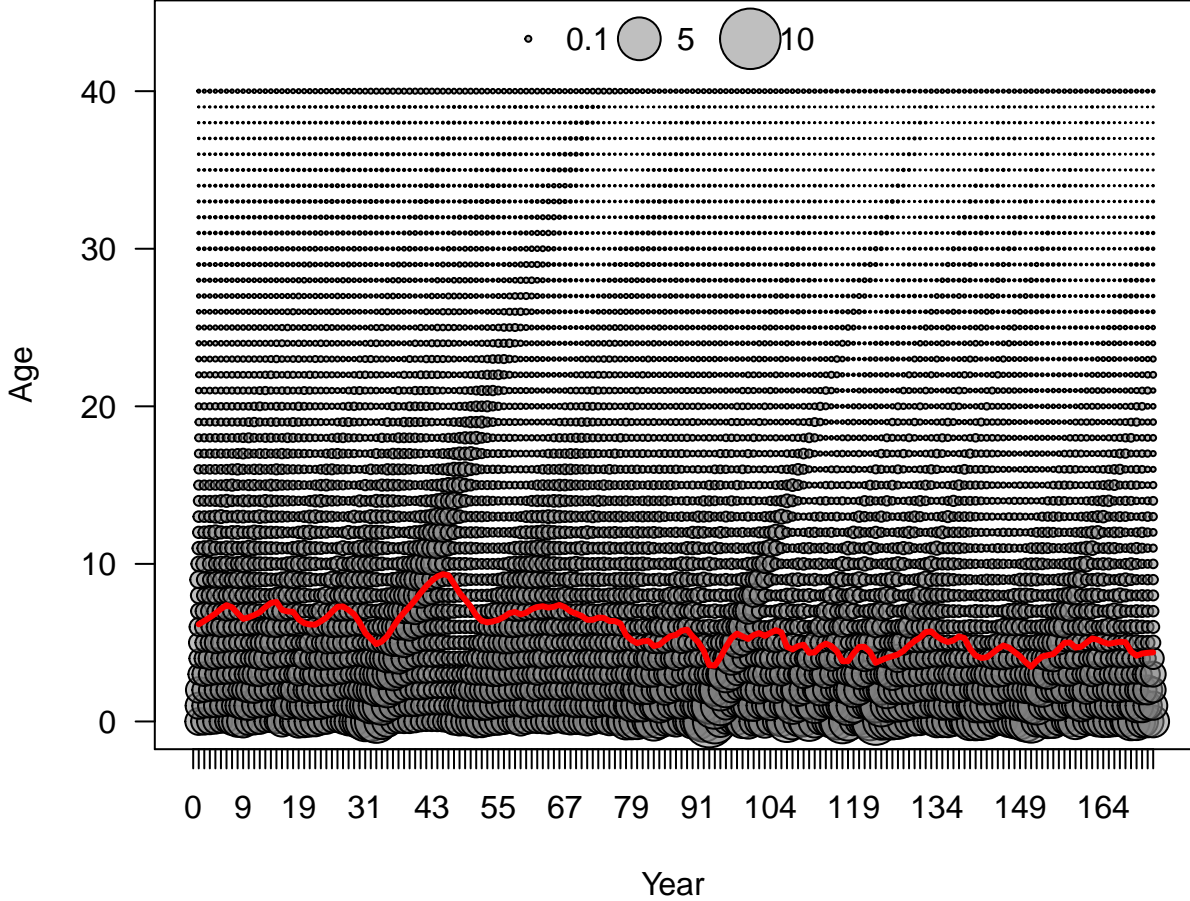
○ 0.1 ● 5 ● 10



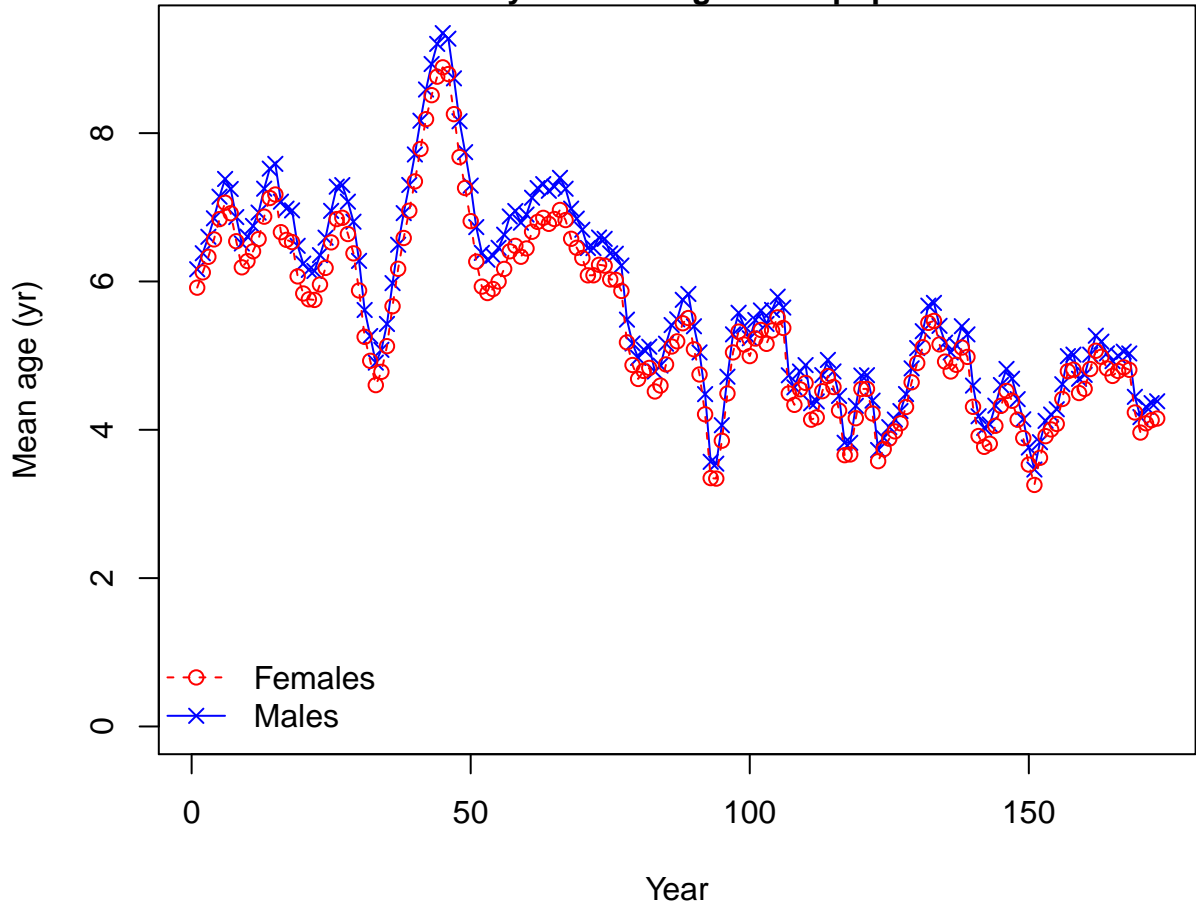
0 9 19 31 43 55 67 79 91 104 119 134 149 164

Year

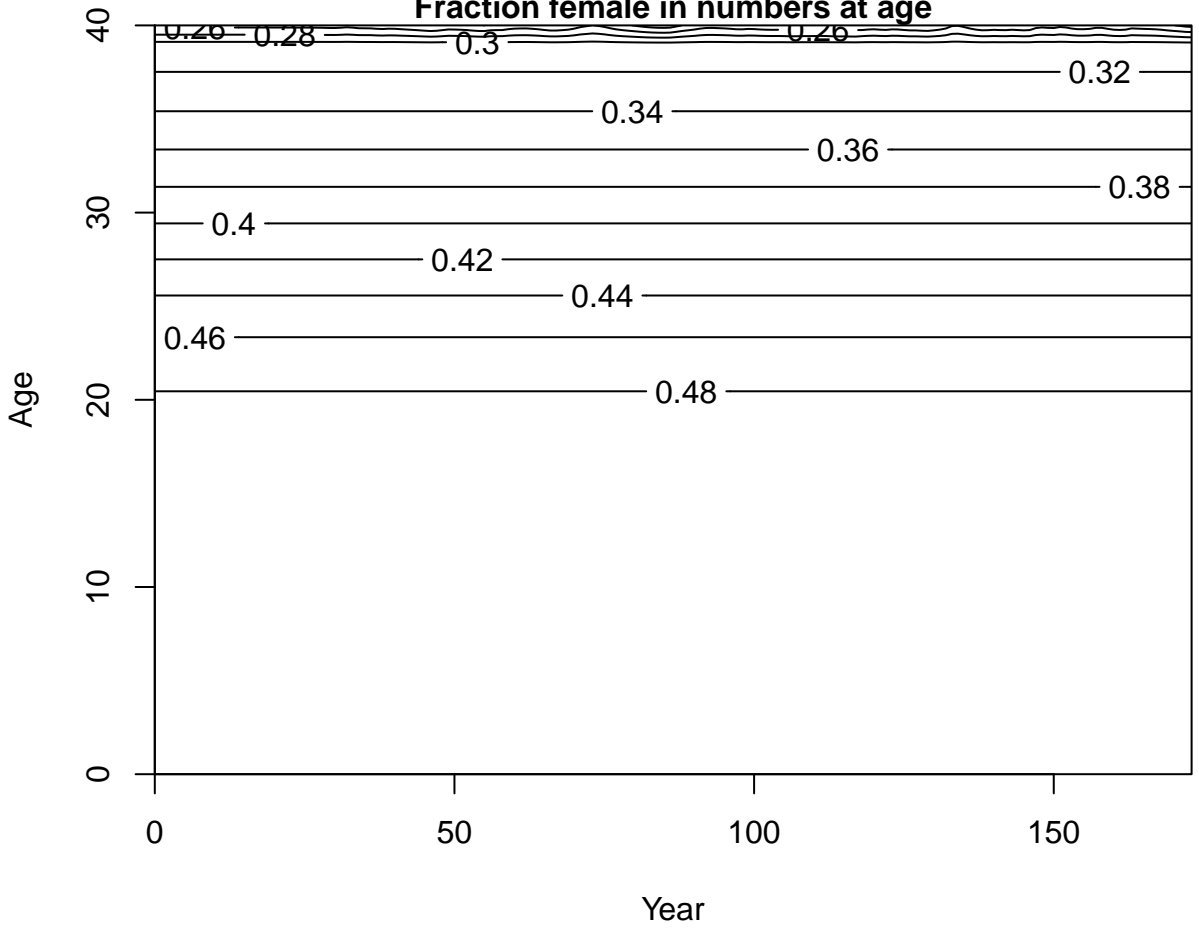
Middle of year expected numbers at age of males in (max ~ 7.4 million)



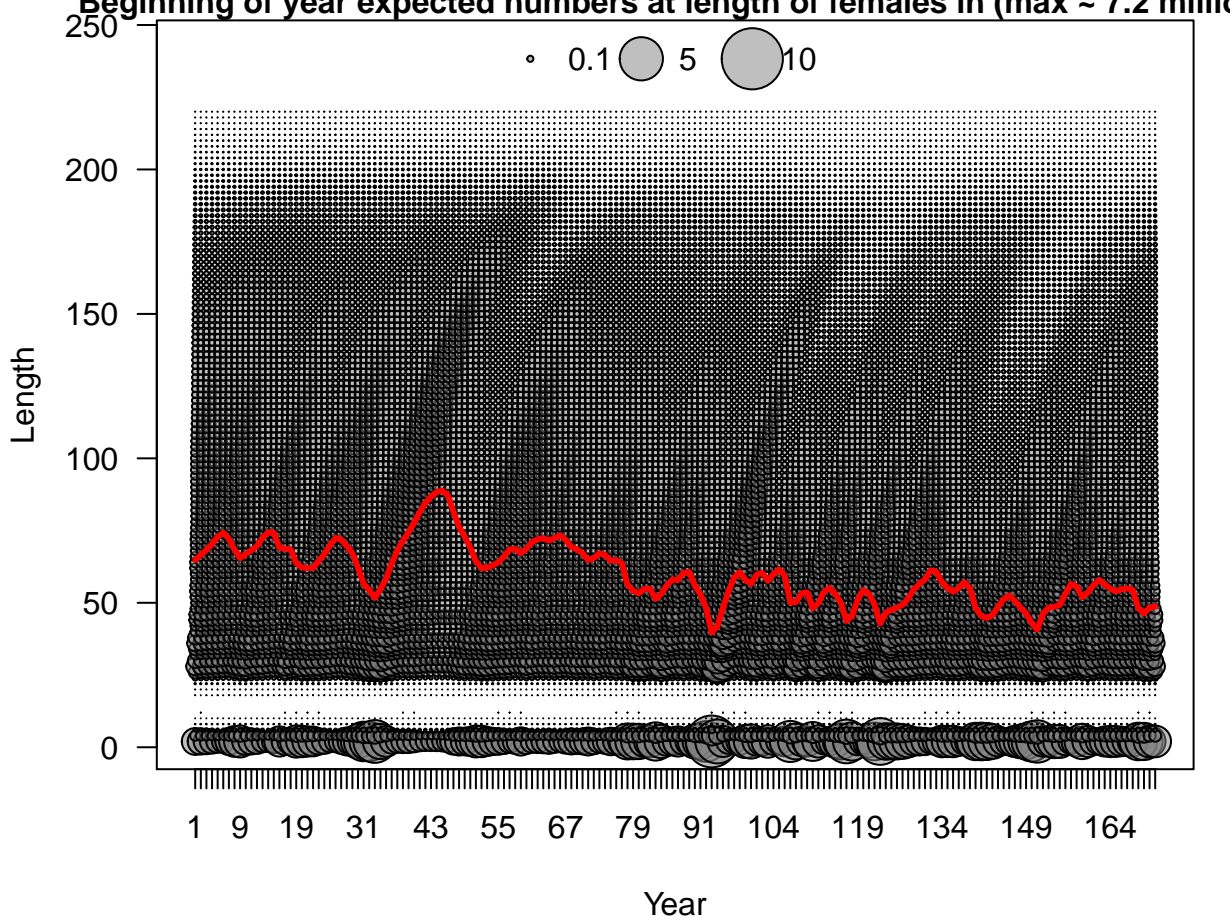
Middle of year mean age in the population



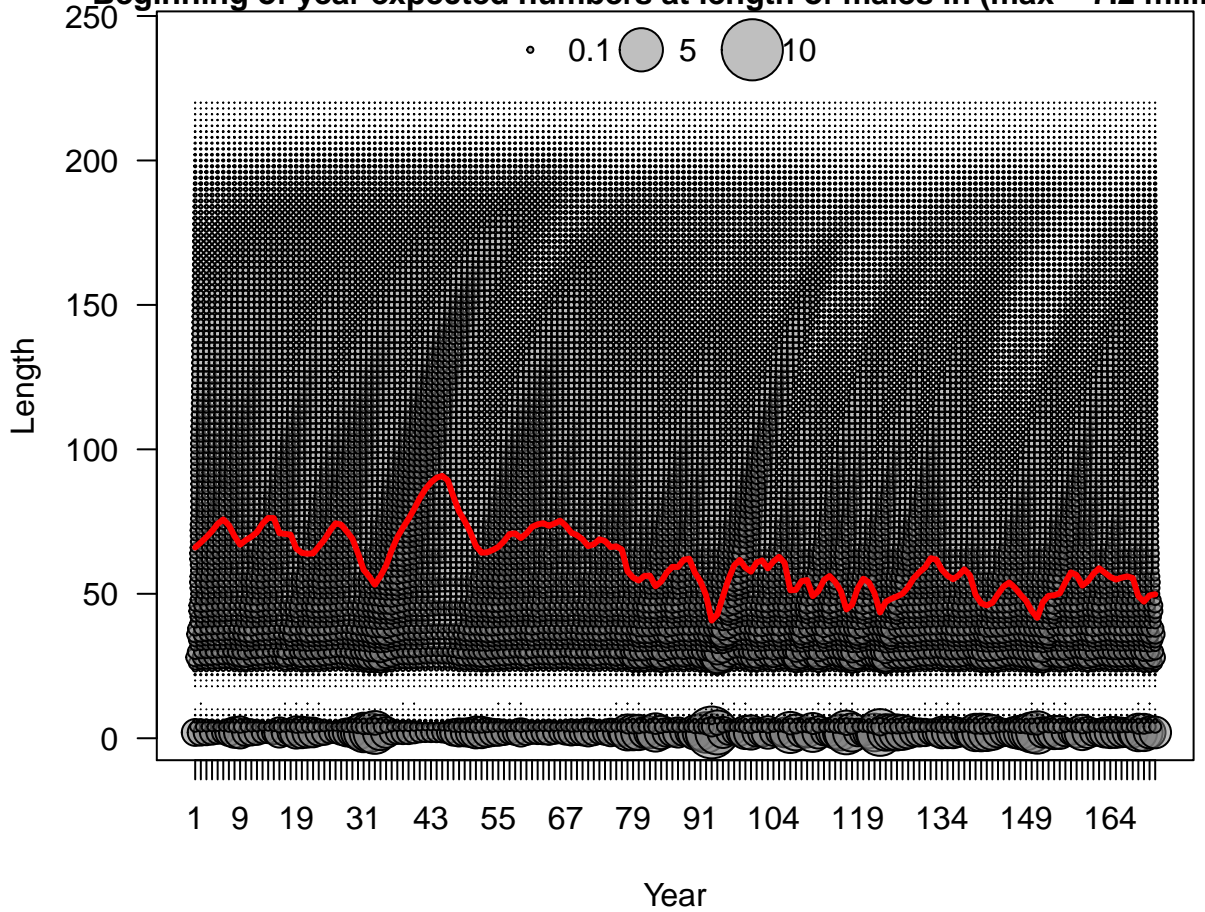
Fraction female in numbers at age



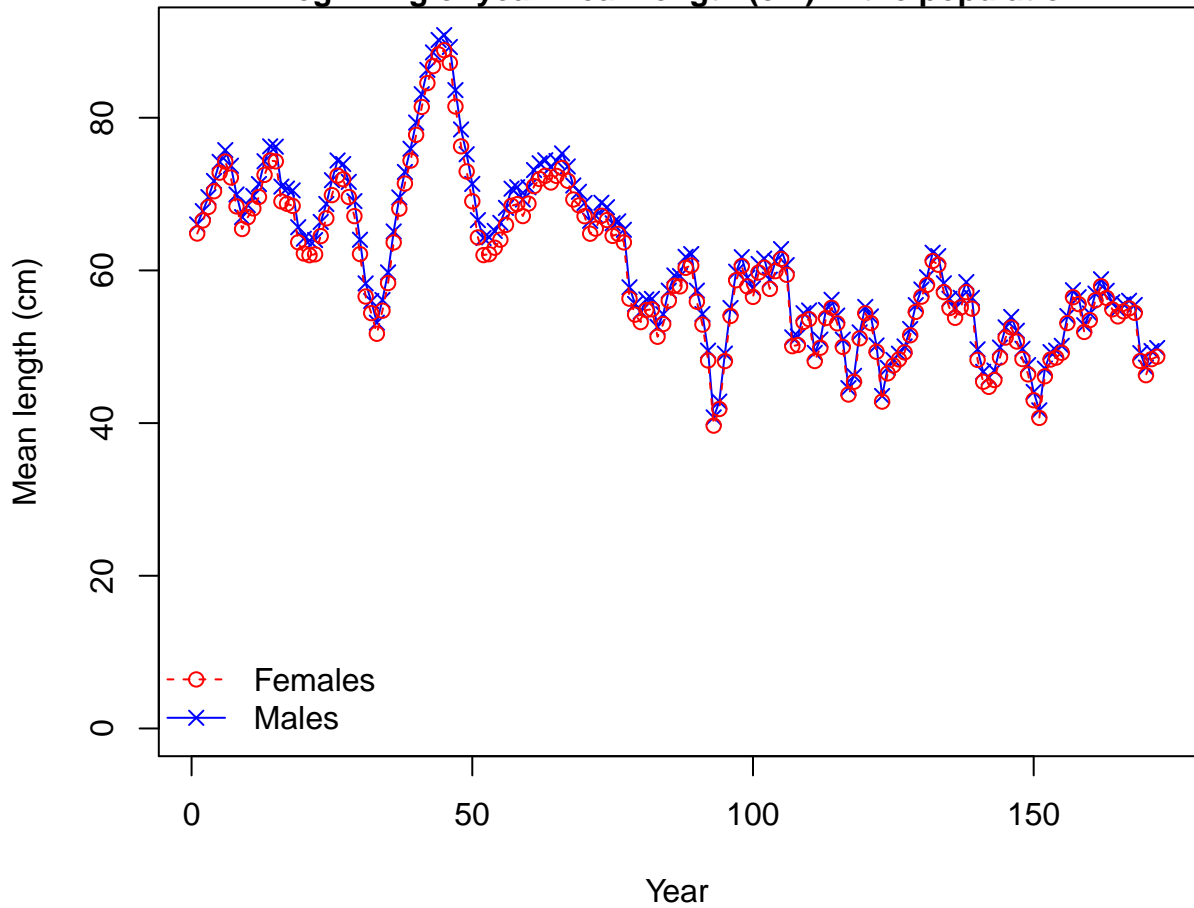
Beginning of year expected numbers at length of females in (max ~ 7.2 million)



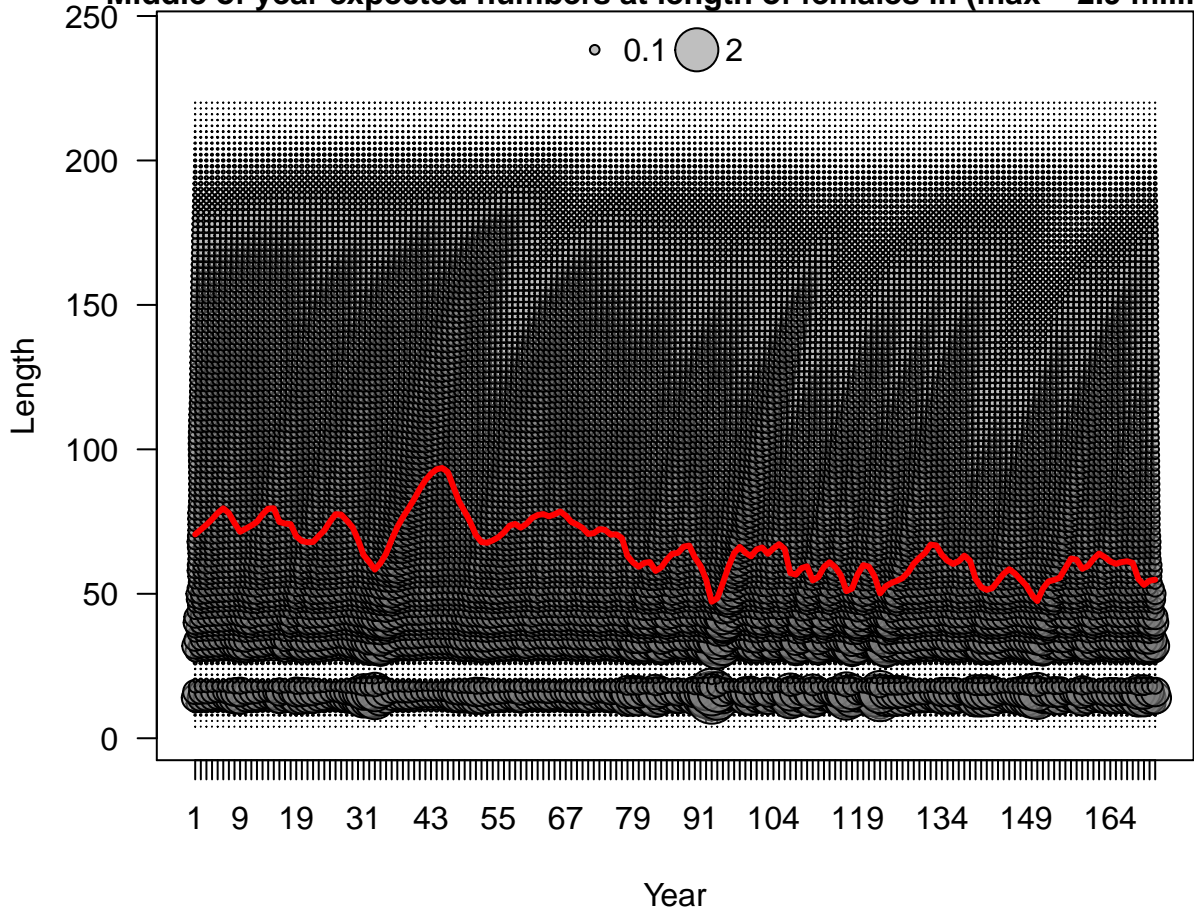
Beginning of year expected numbers at length of males in (max ~ 7.2 million)



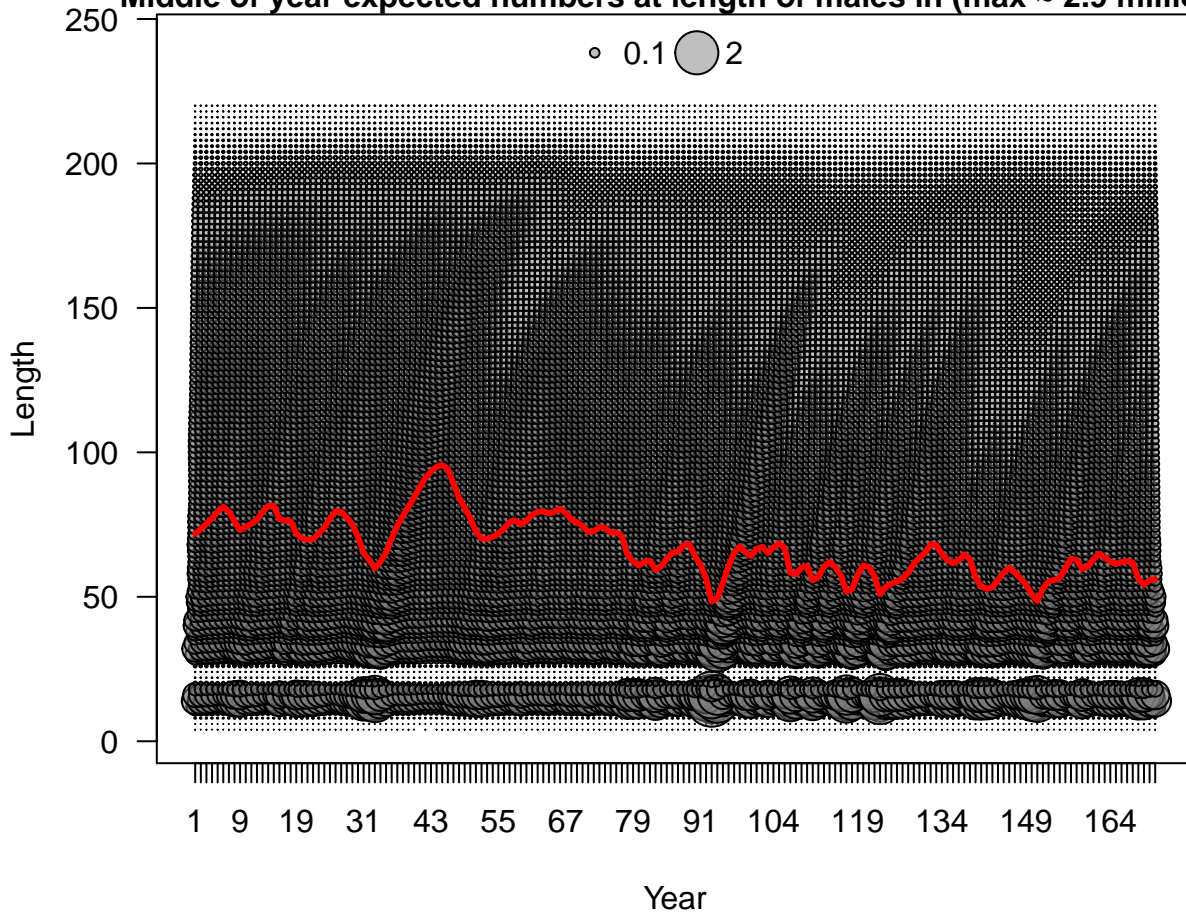
Beginning of year mean length (cm) in the population



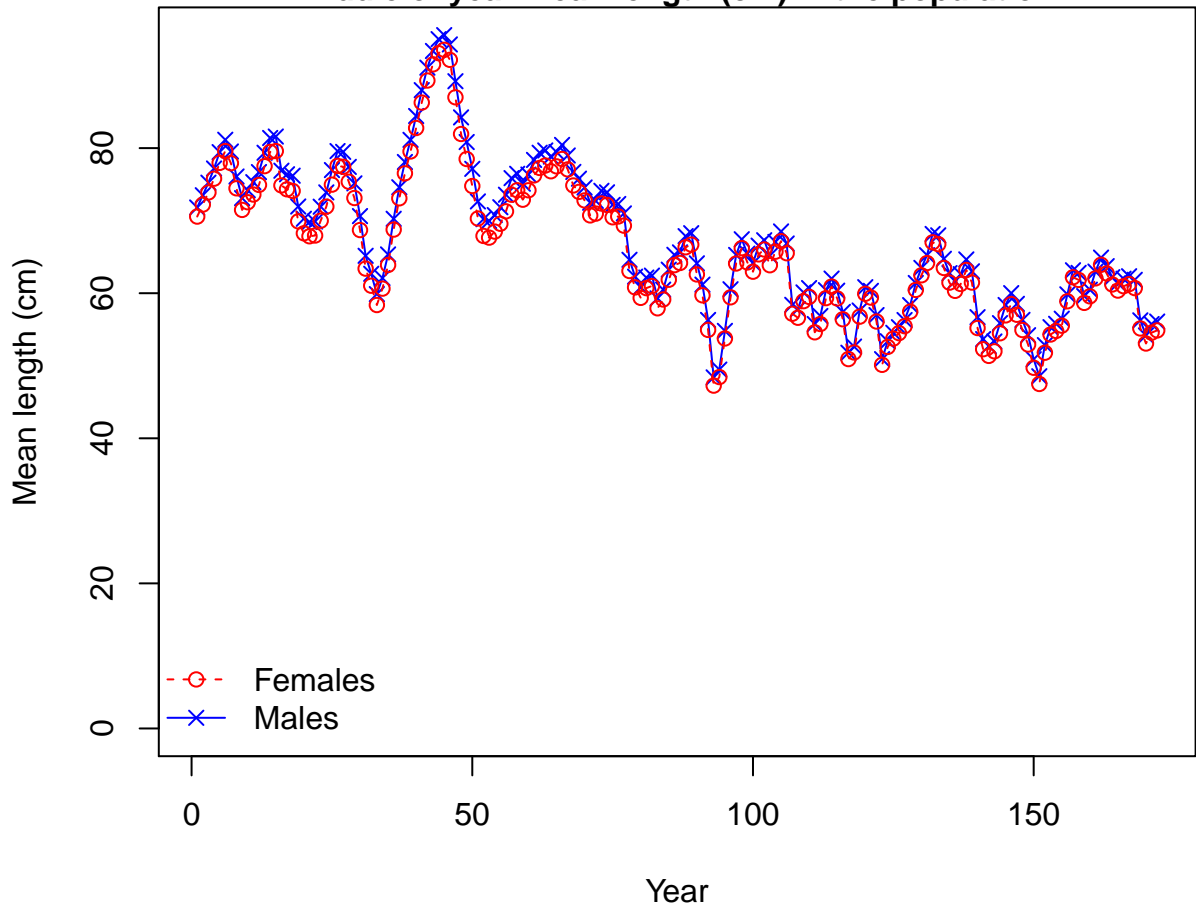
Middle of year expected numbers at length of females in (max ~ 2.9 million)



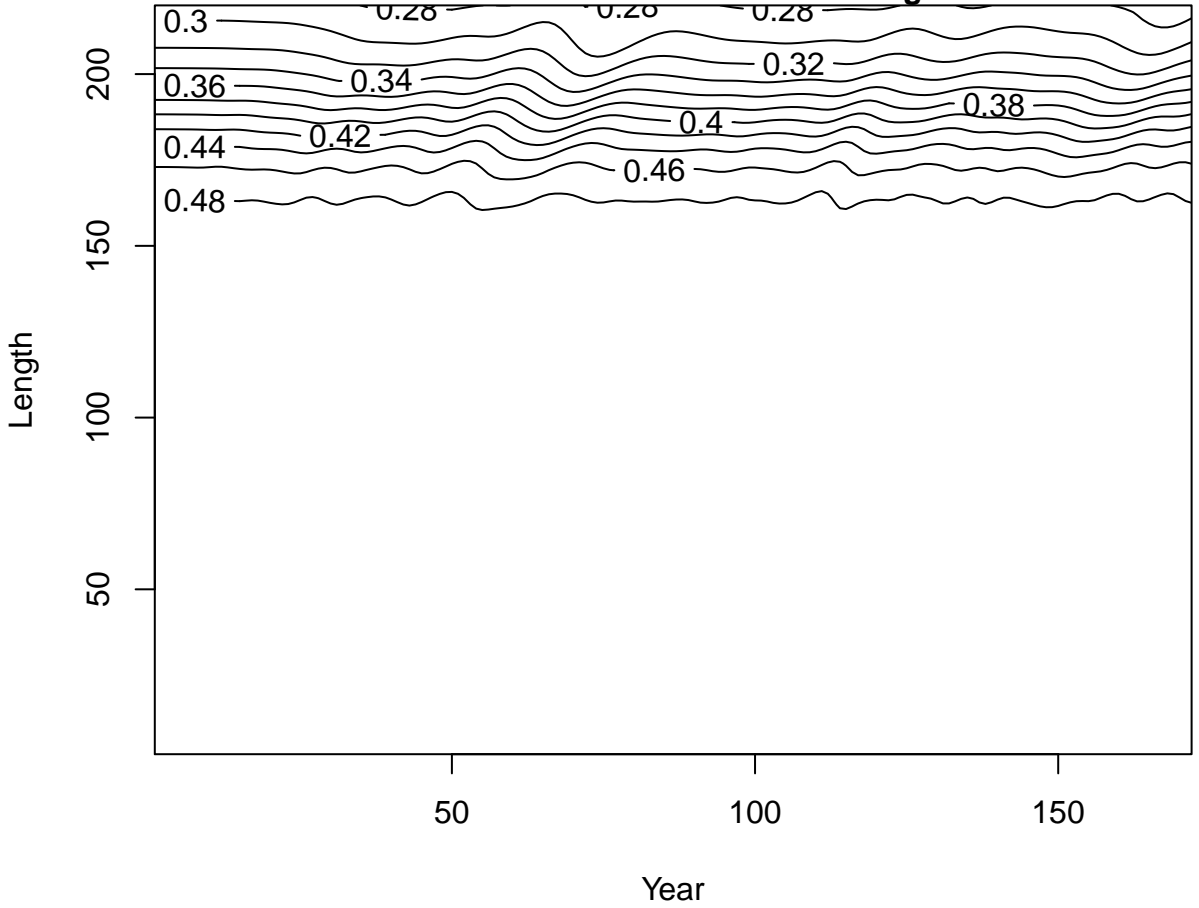
Middle of year expected numbers at length of males in (max ~ 2.9 million)



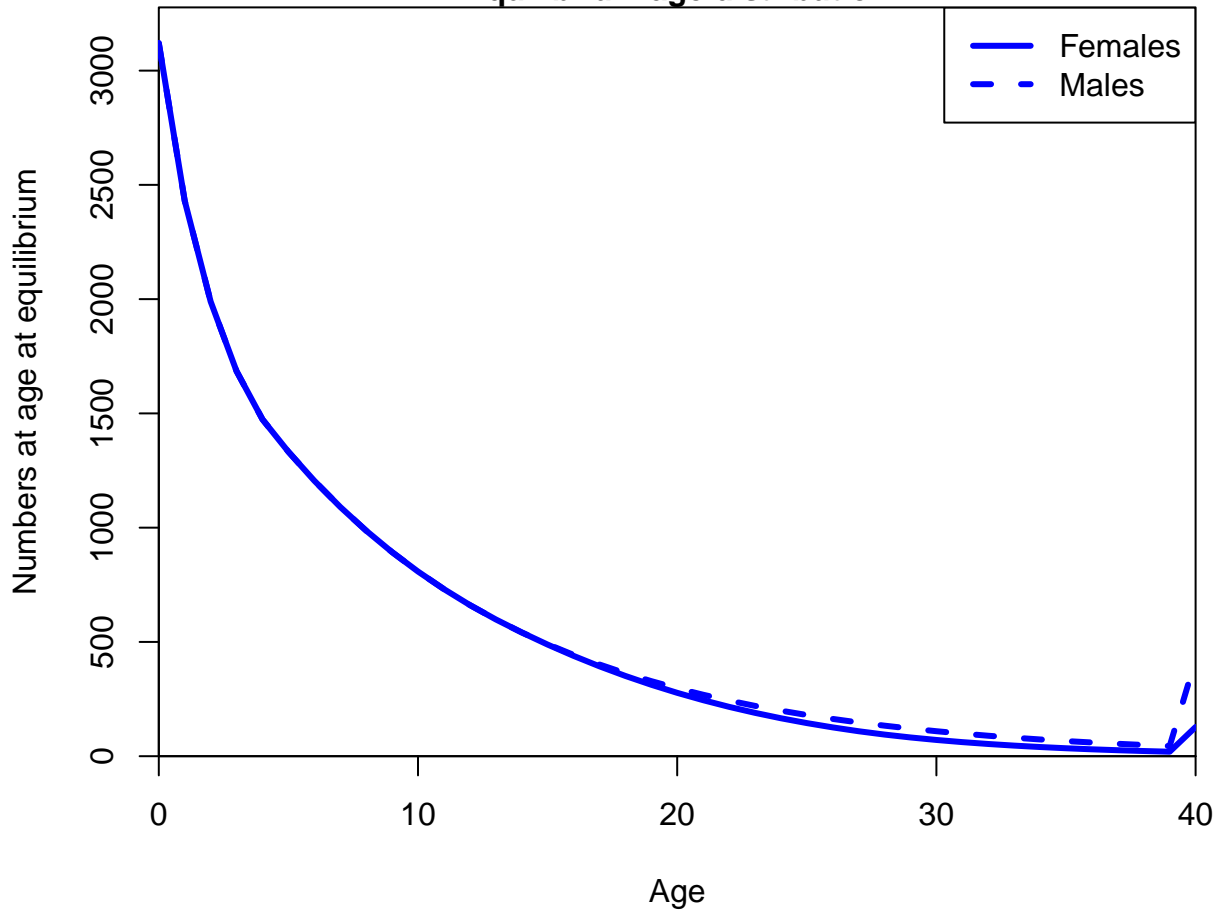
Middle of year mean length (cm) in the population



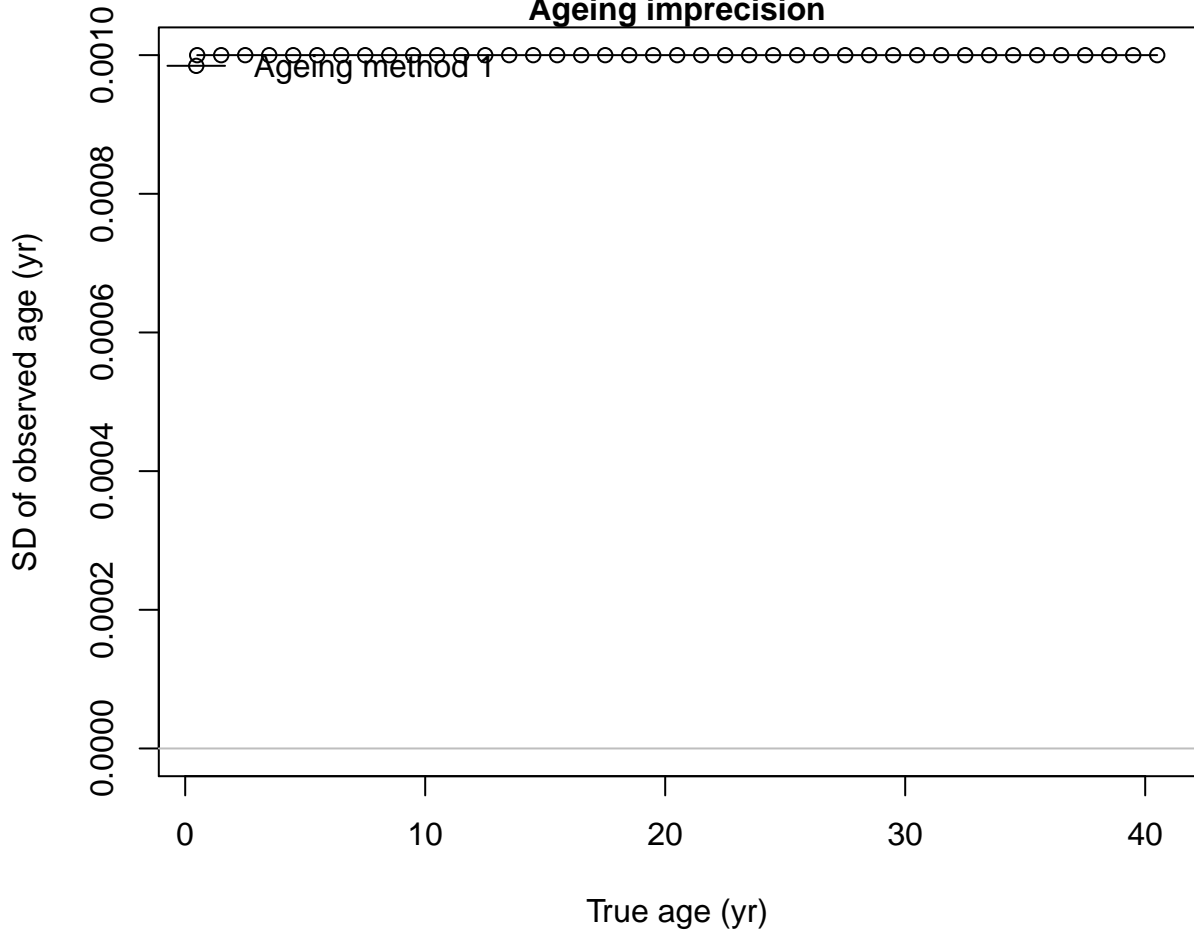
Fraction female in numbers at length



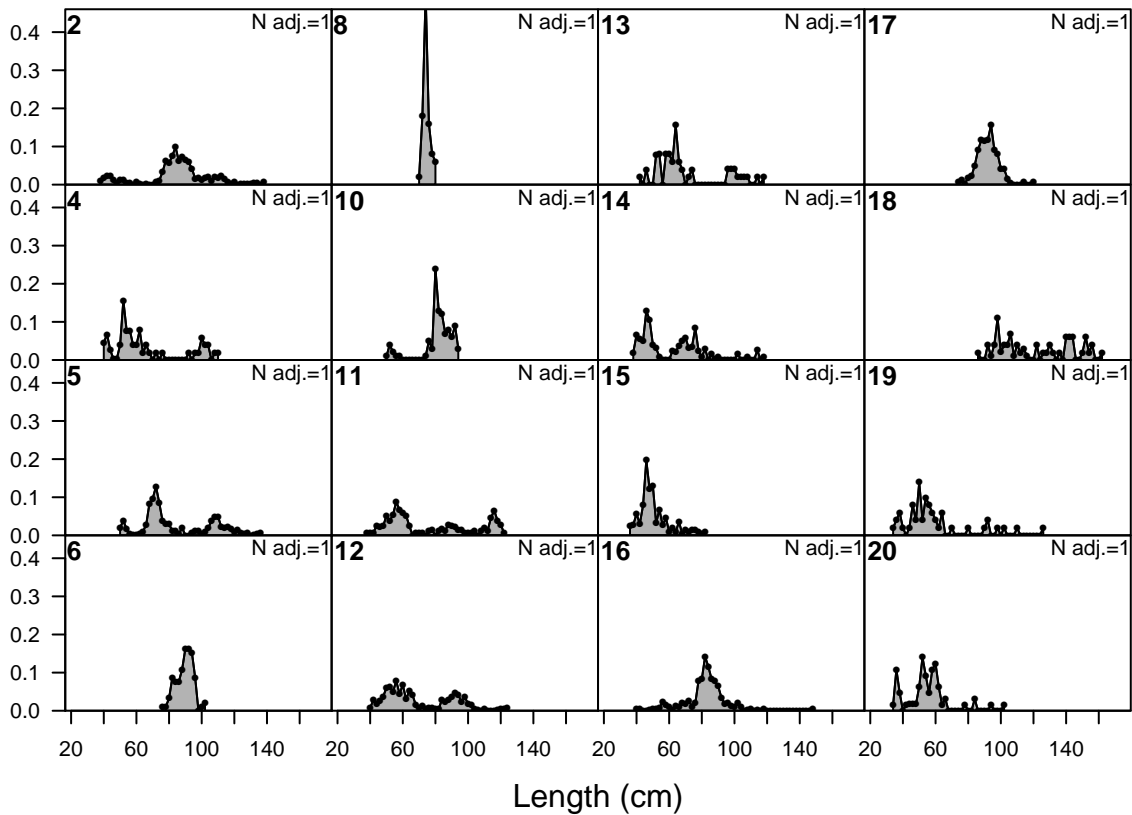
Equilibrium age distribution



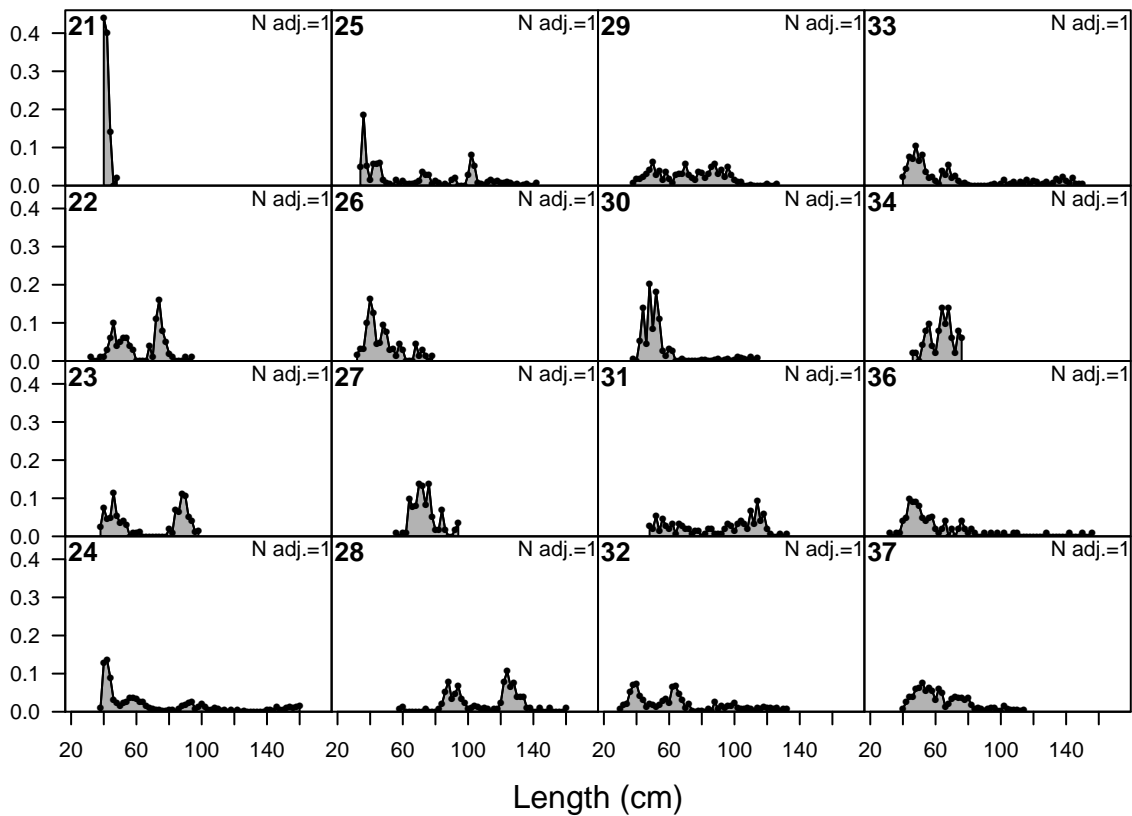
Ageing imprecision



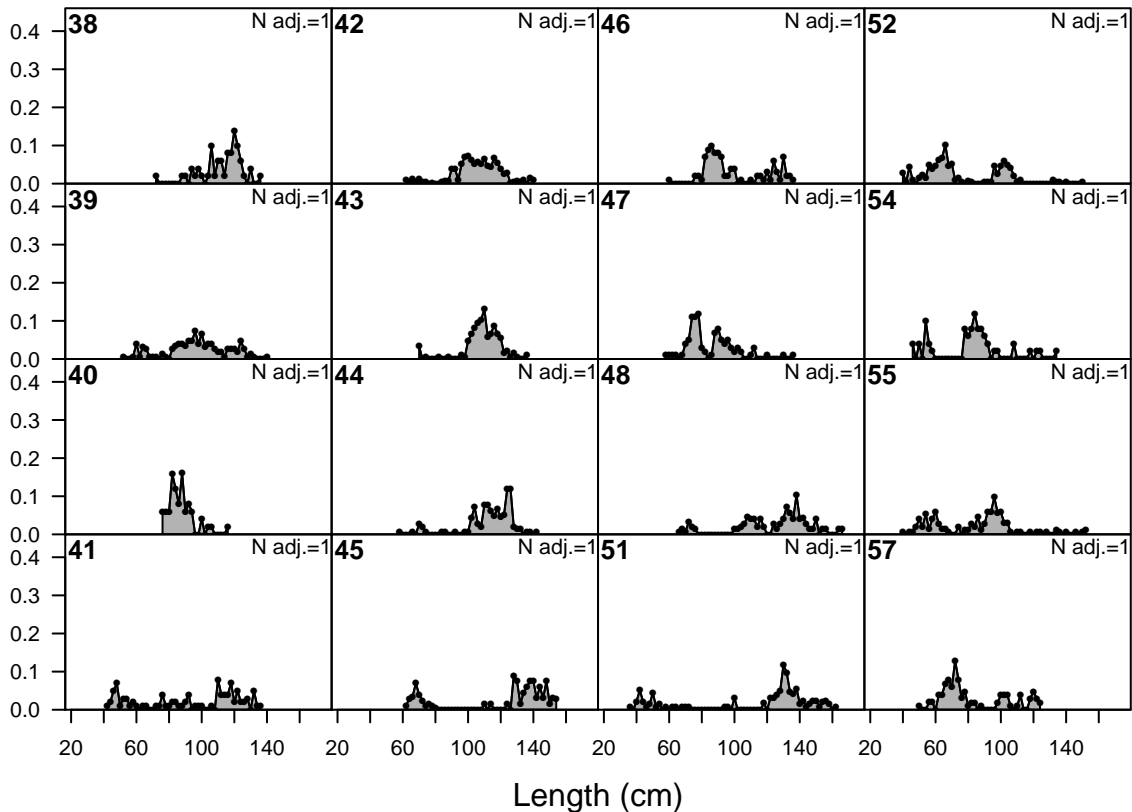
Proportion

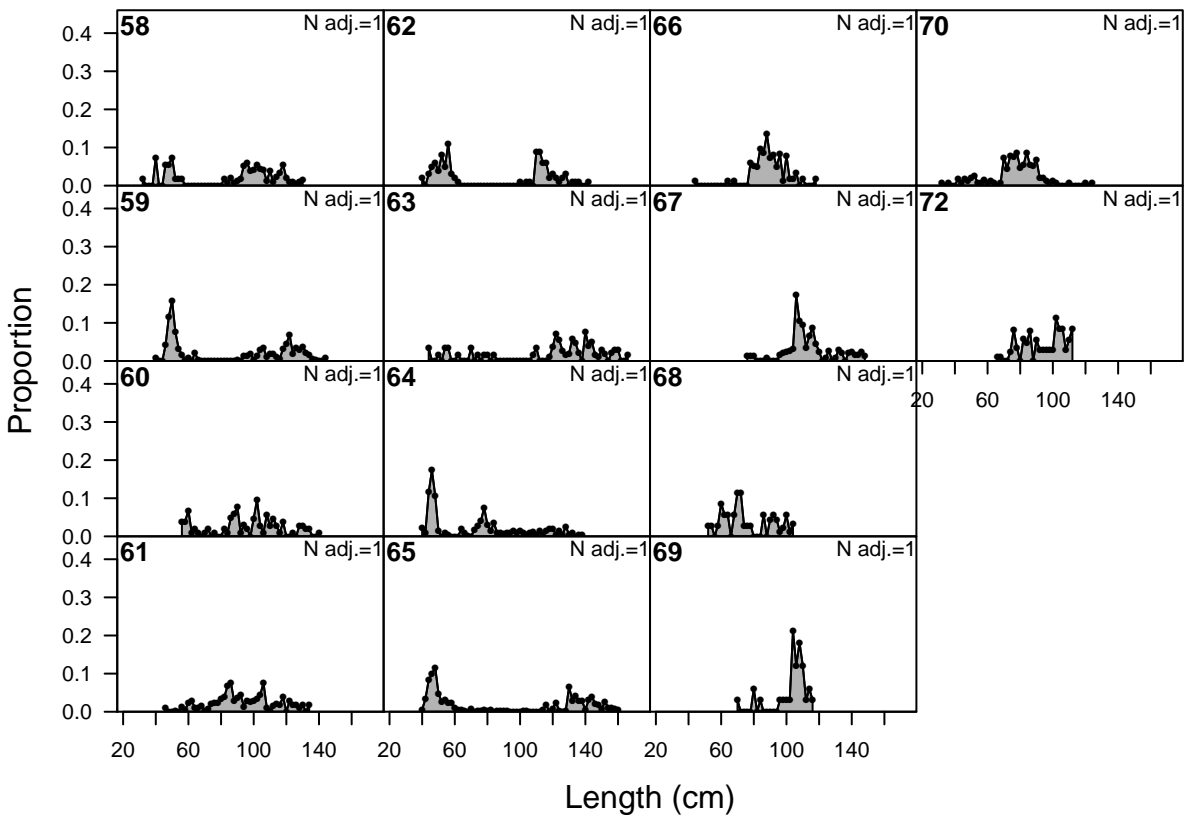


Proportion



Proportion





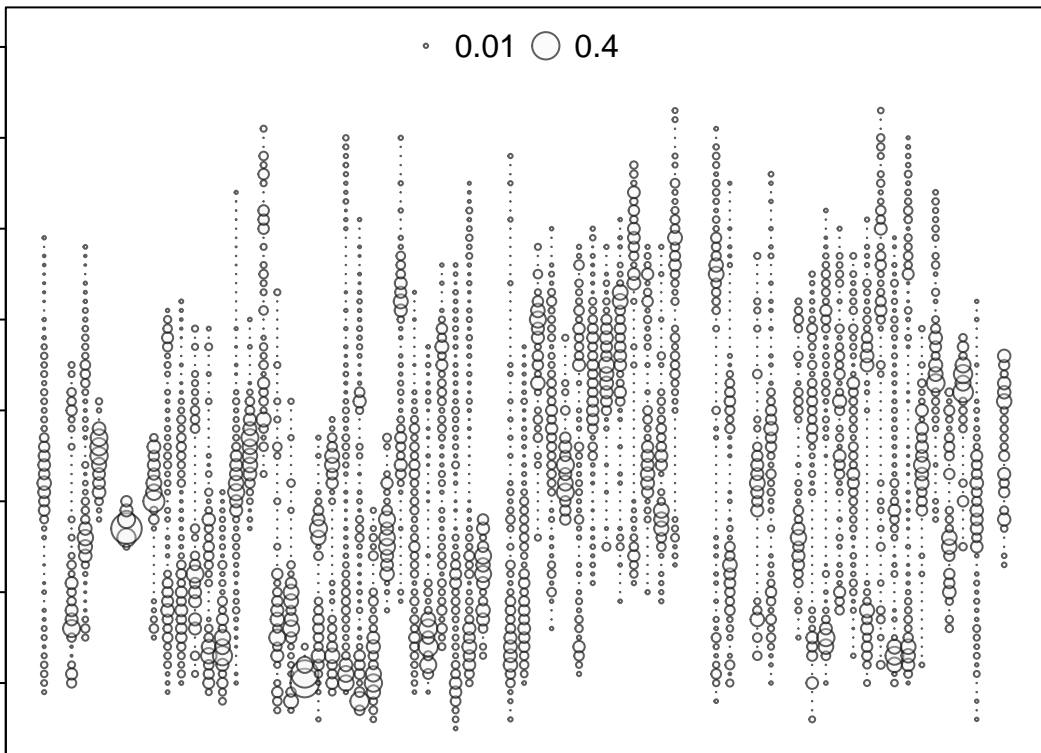
Length (cm)

180
160
140
120
100
80
60
40

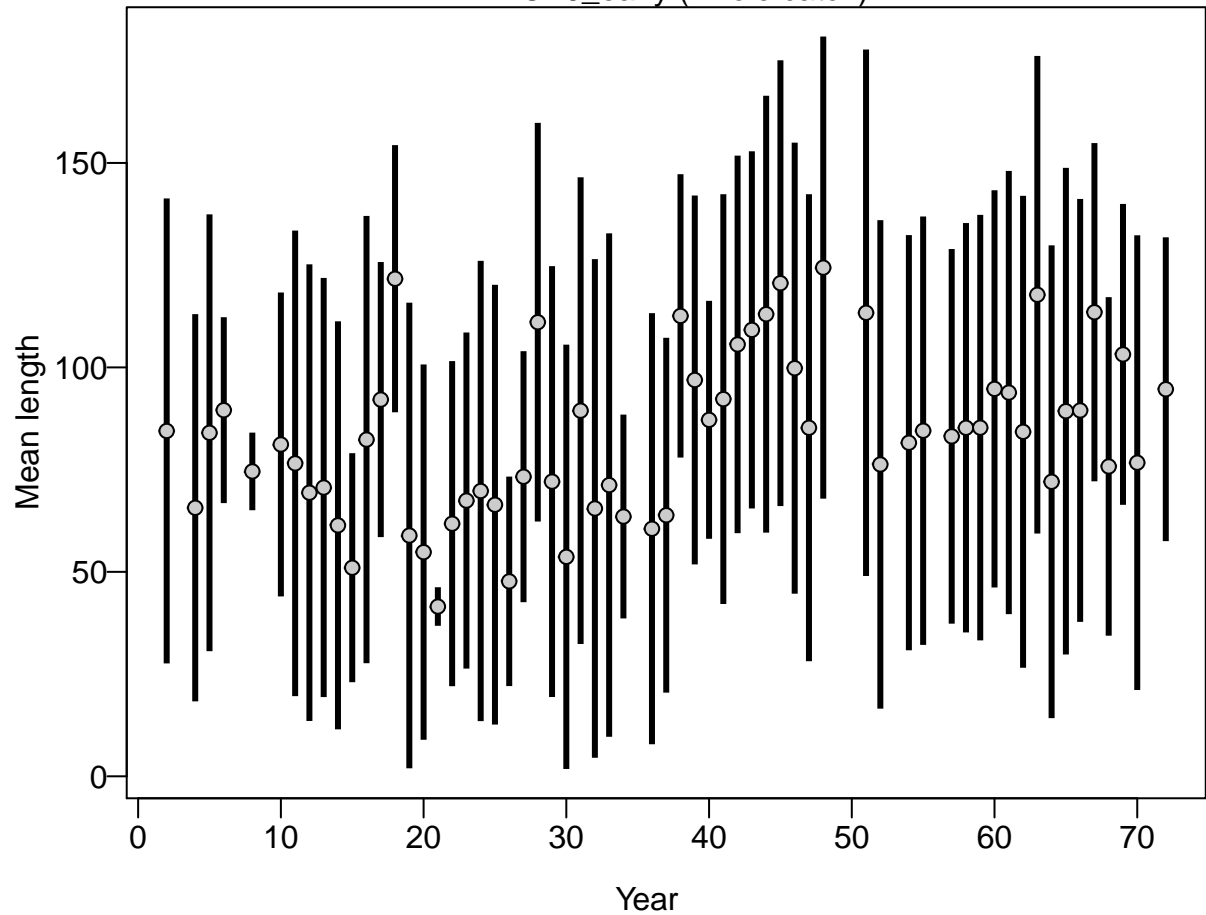
2 6 10 15 20 25 30 36 41 46 51 57 62 67 72

Year

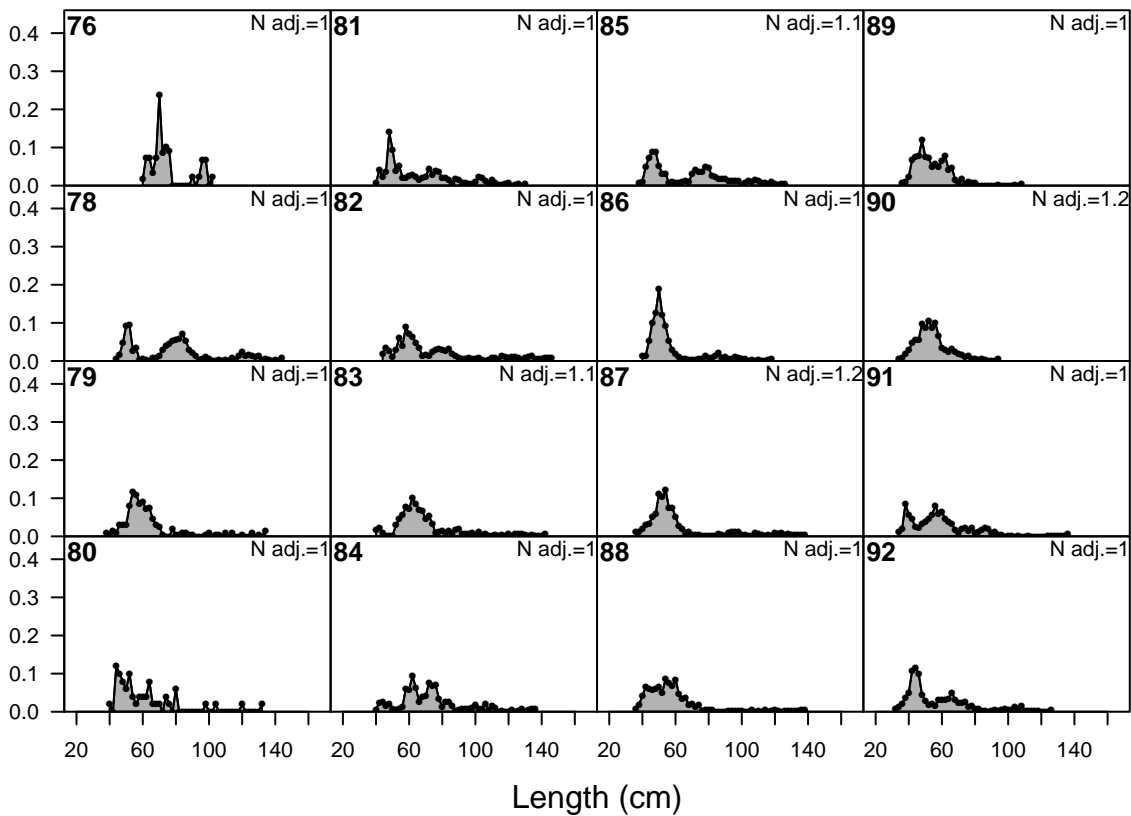
0.01 ○ 0.4



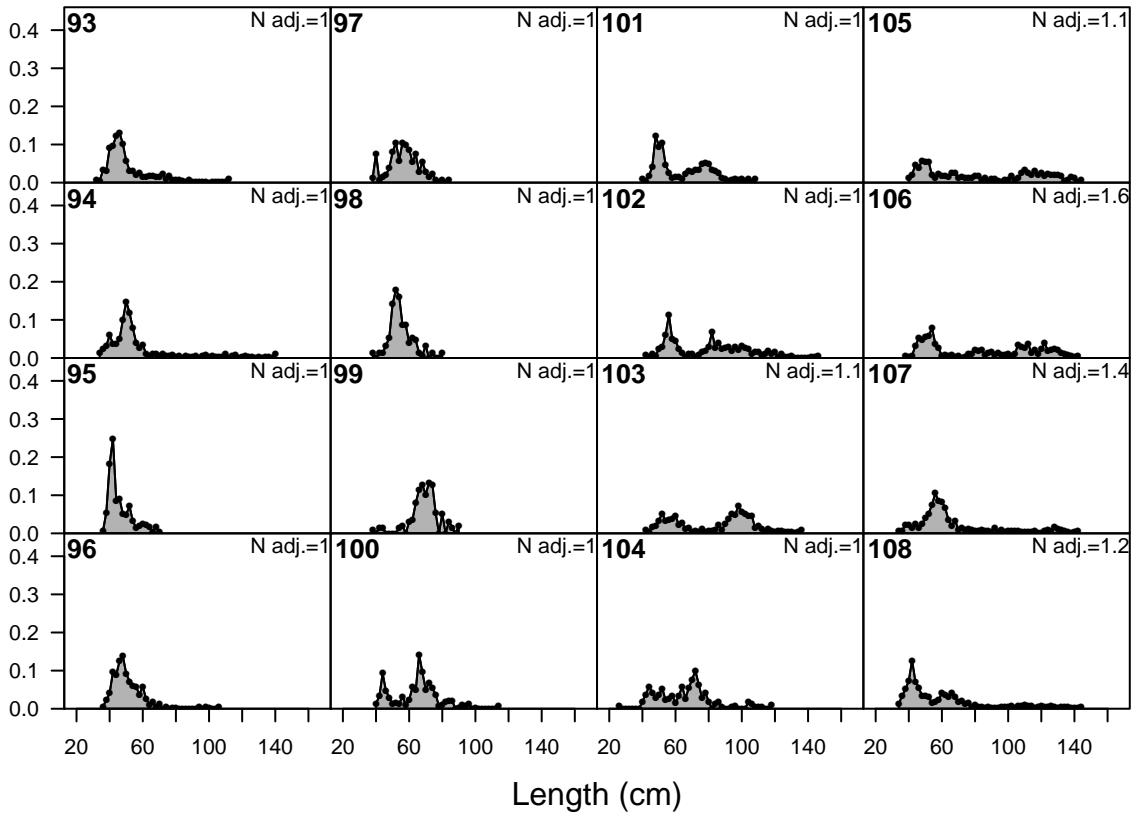
F1-OBJ_early (whole catch)



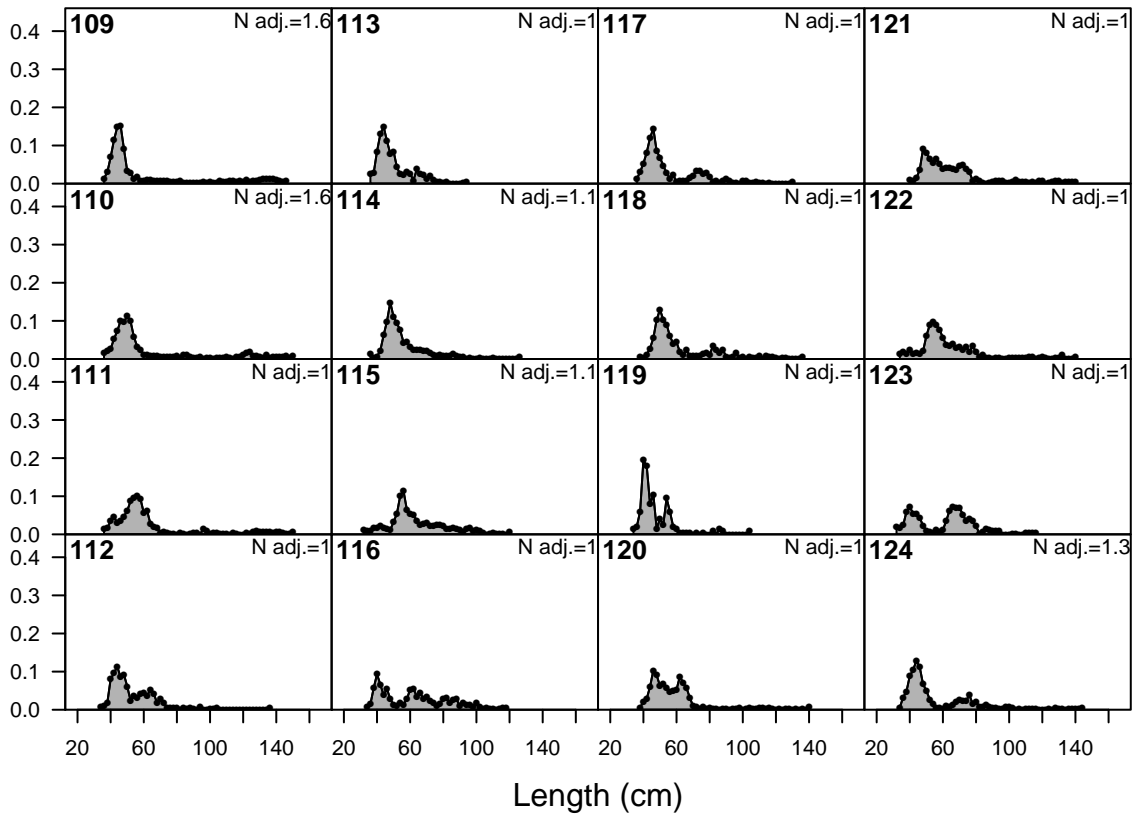
Proportion



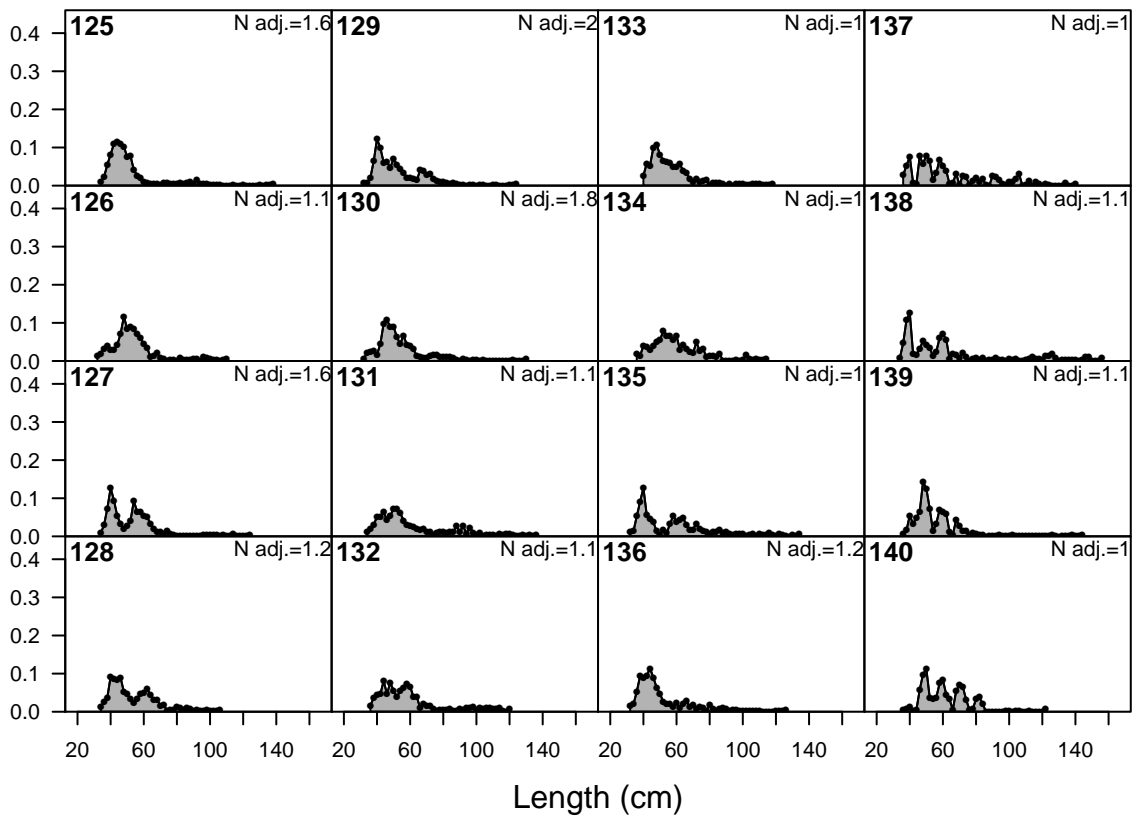
Proportion



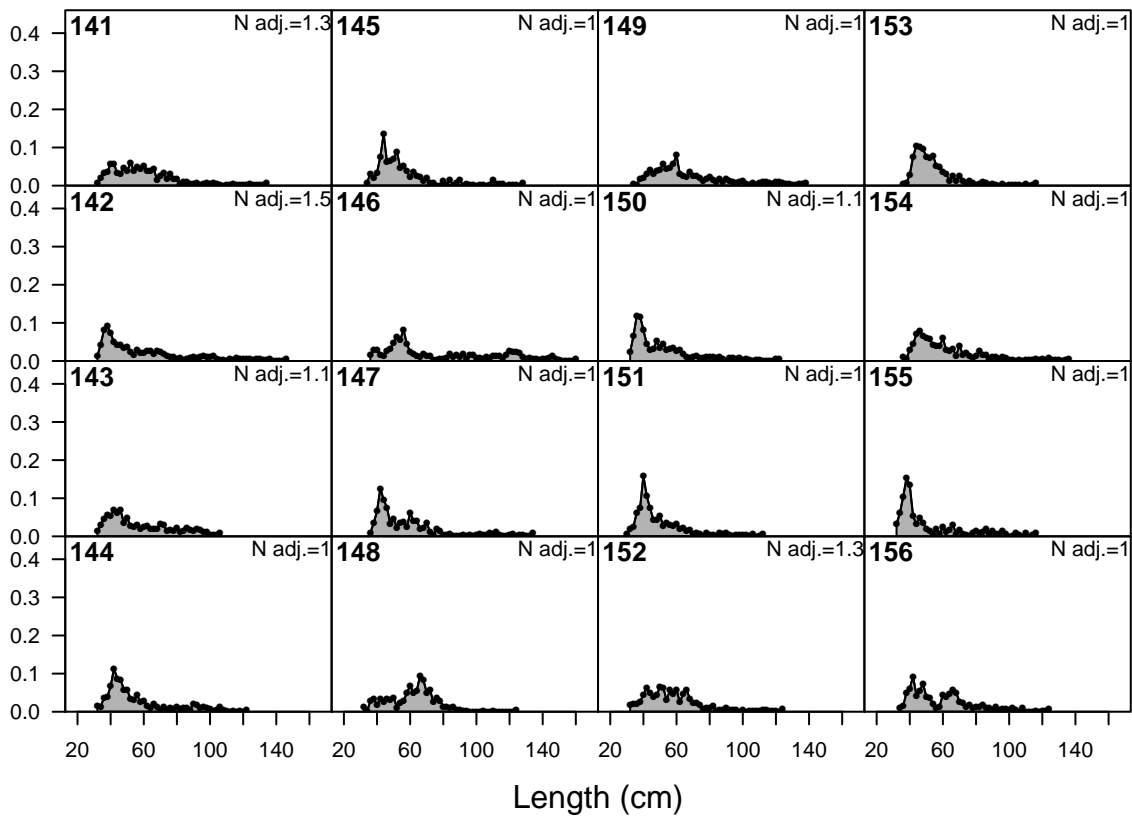
Proportion



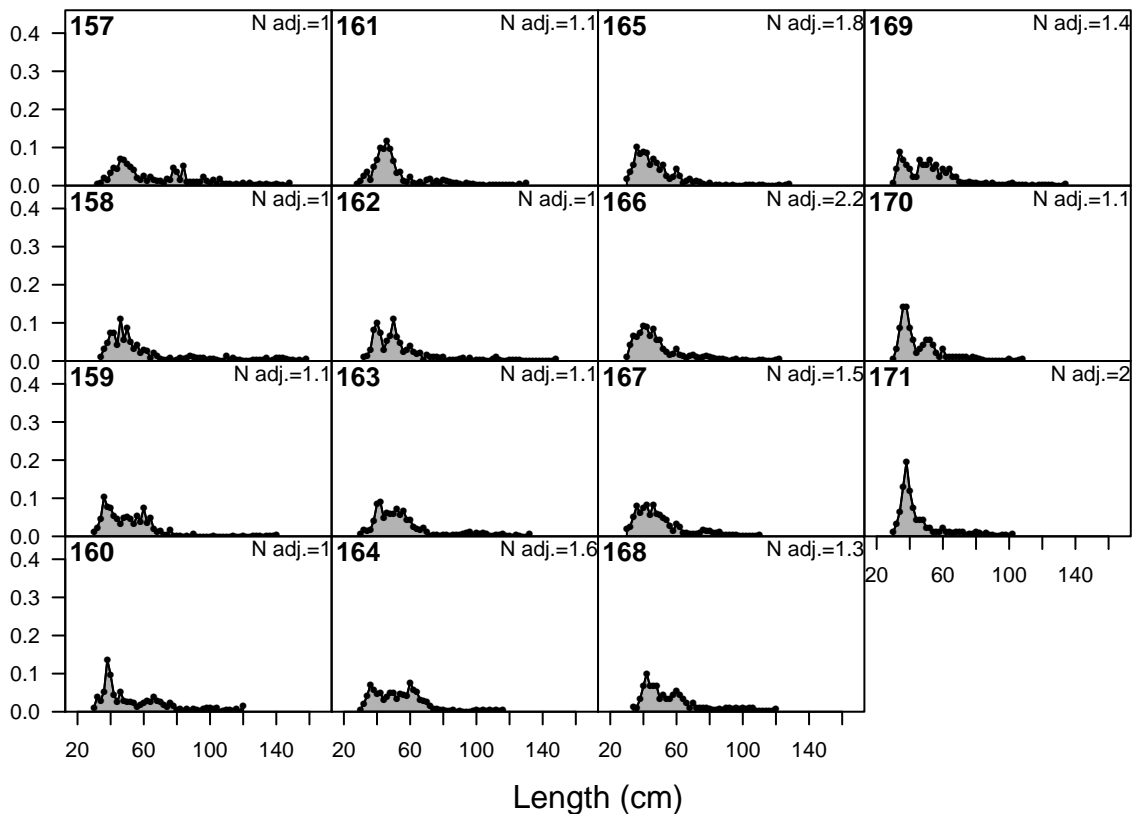
Proportion

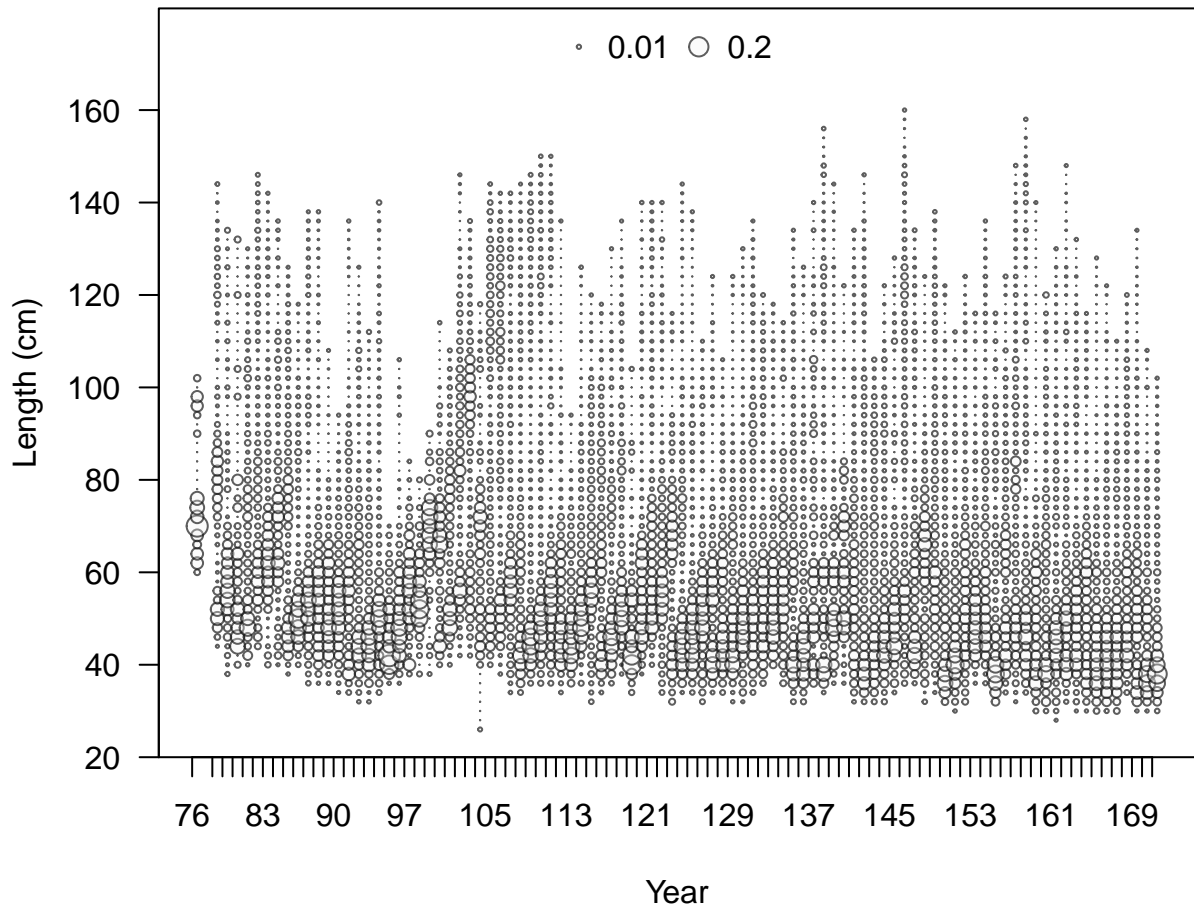


Proportion

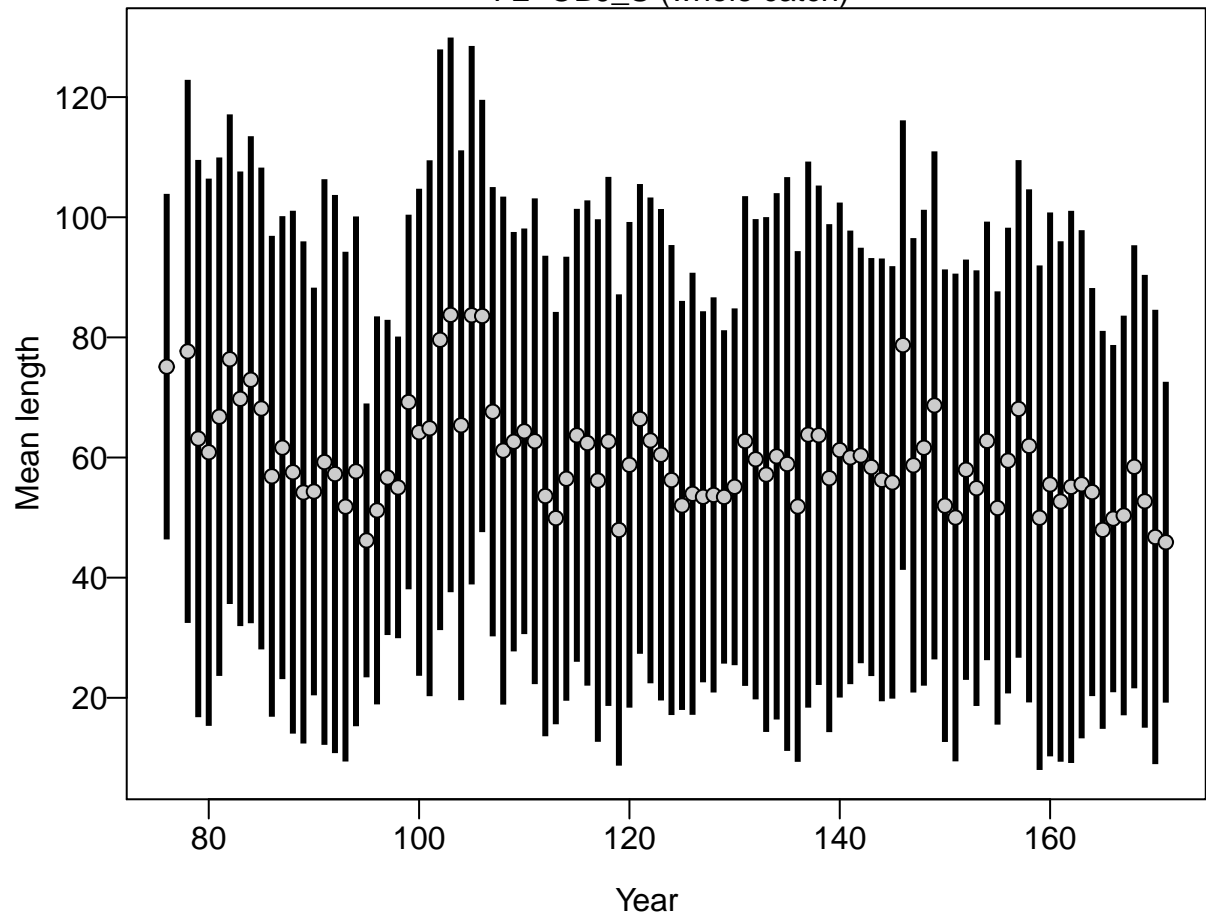


Proportion

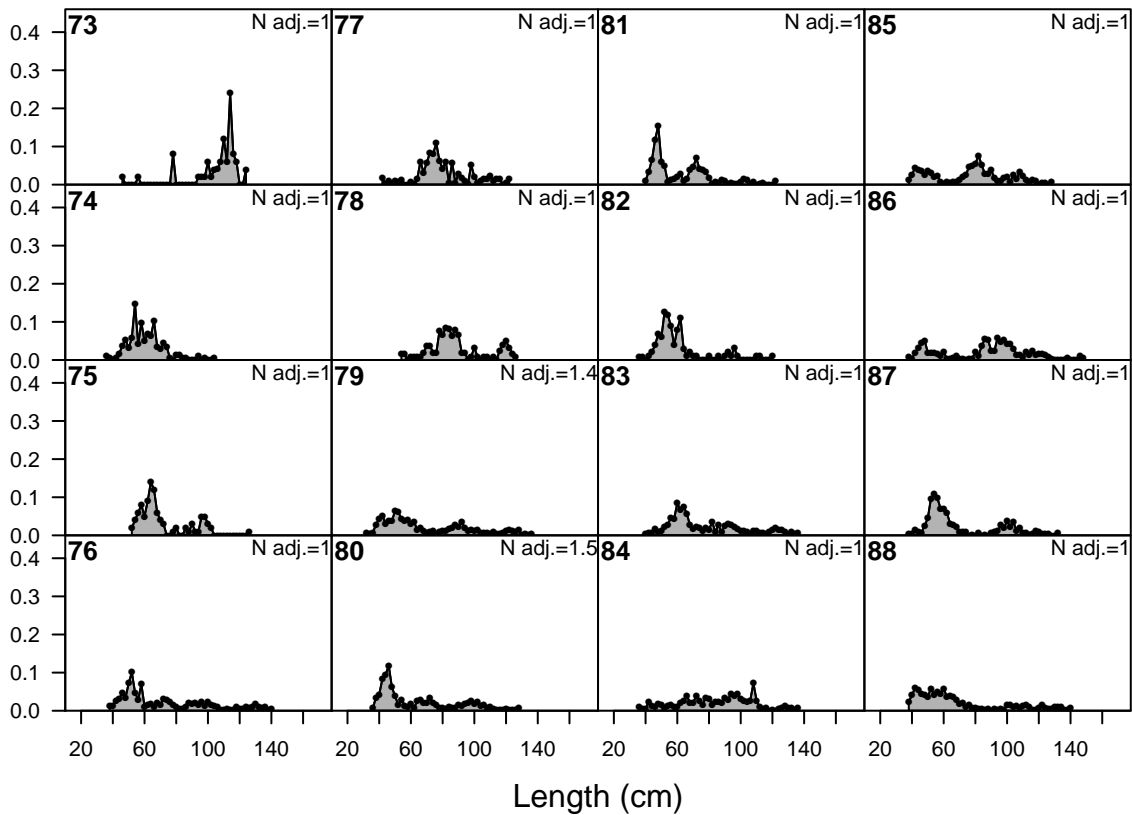




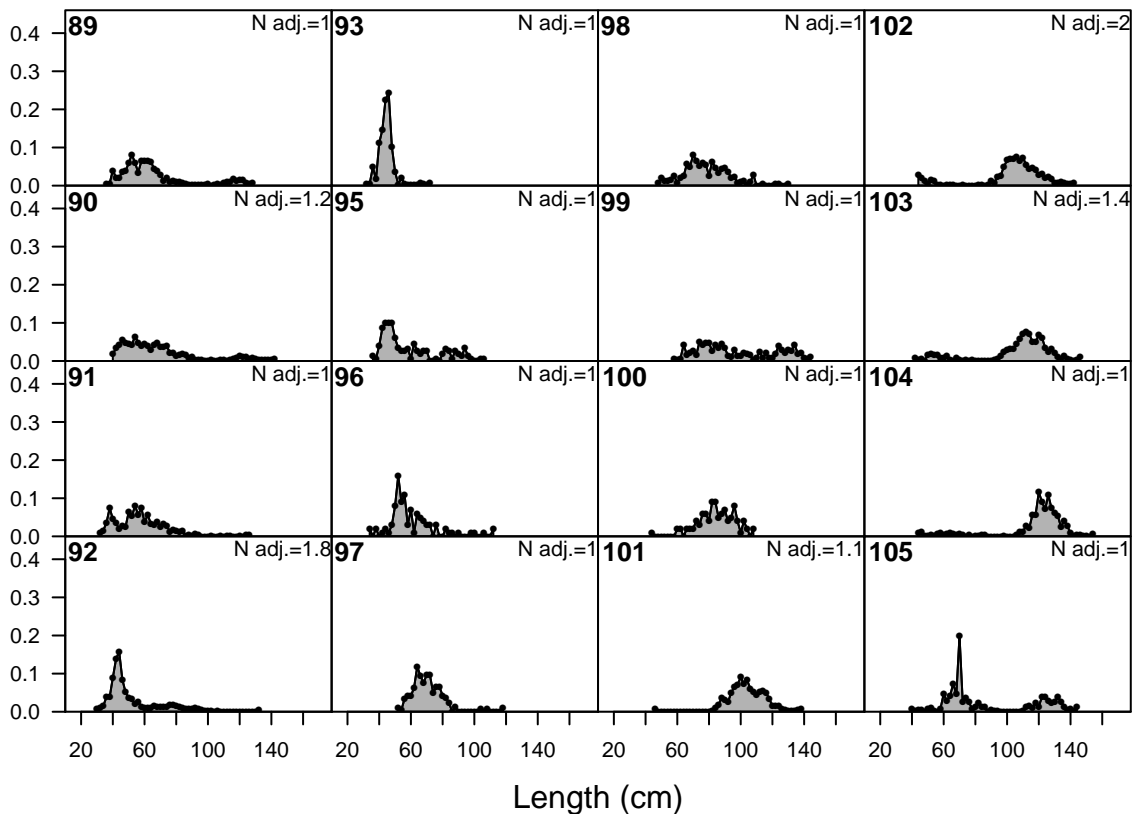
F2-OBJ_S (whole catch)



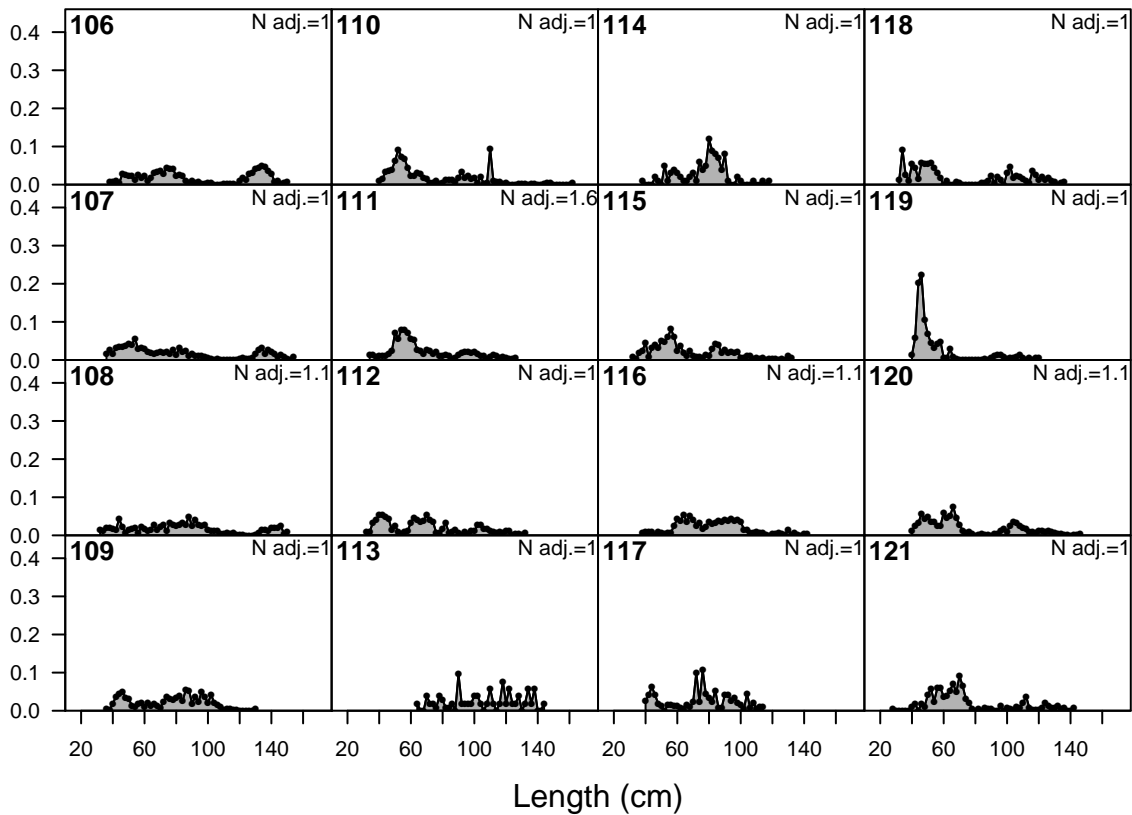
Proportion



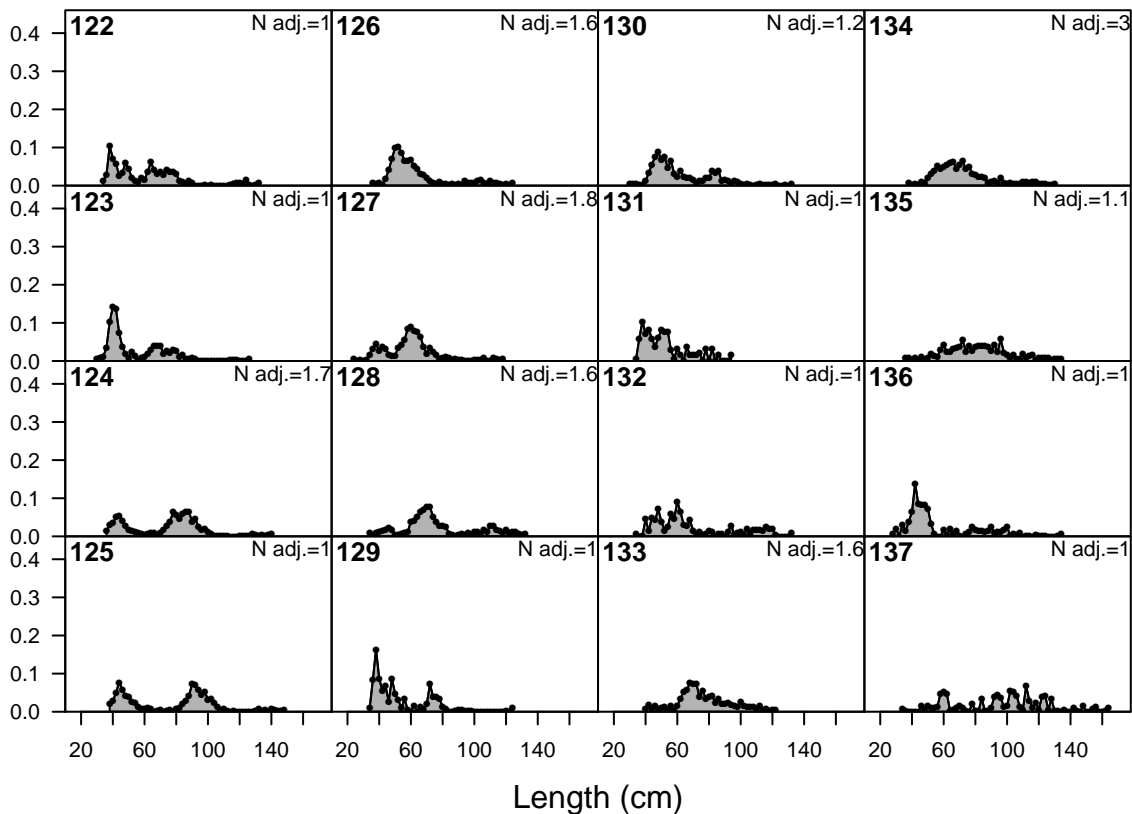
Proportion



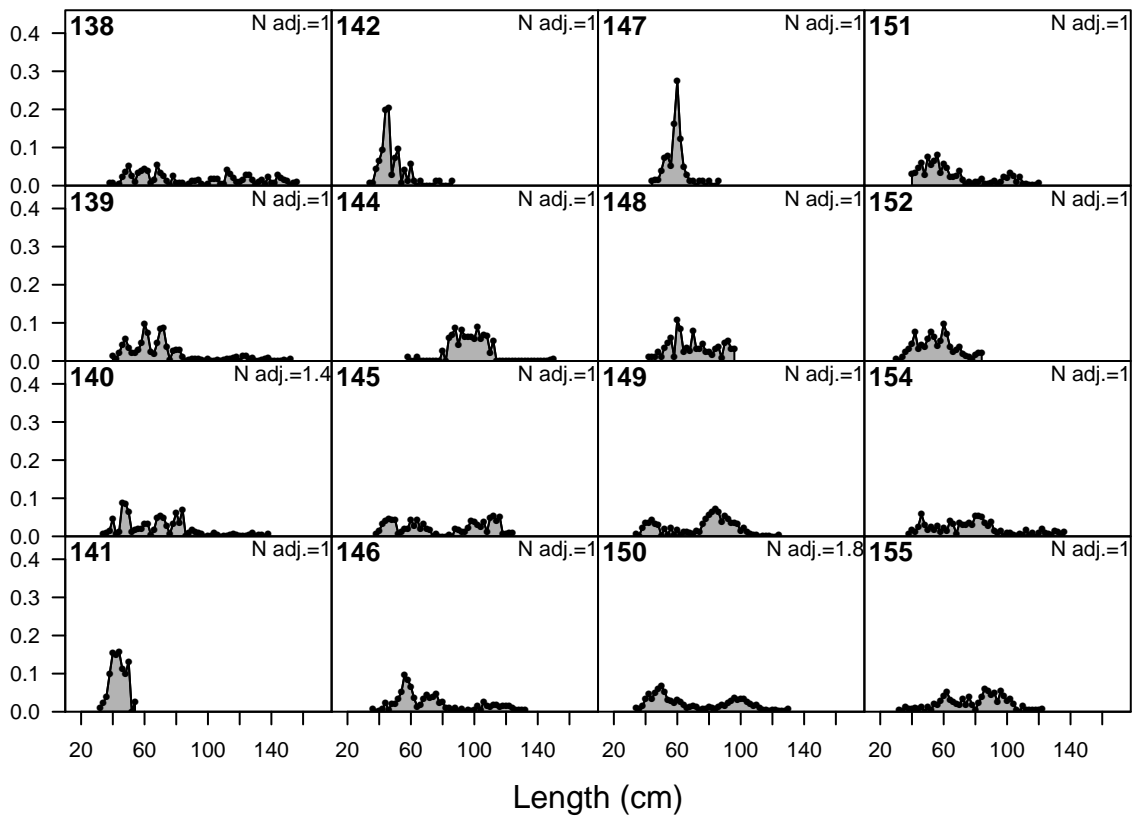
Proportion



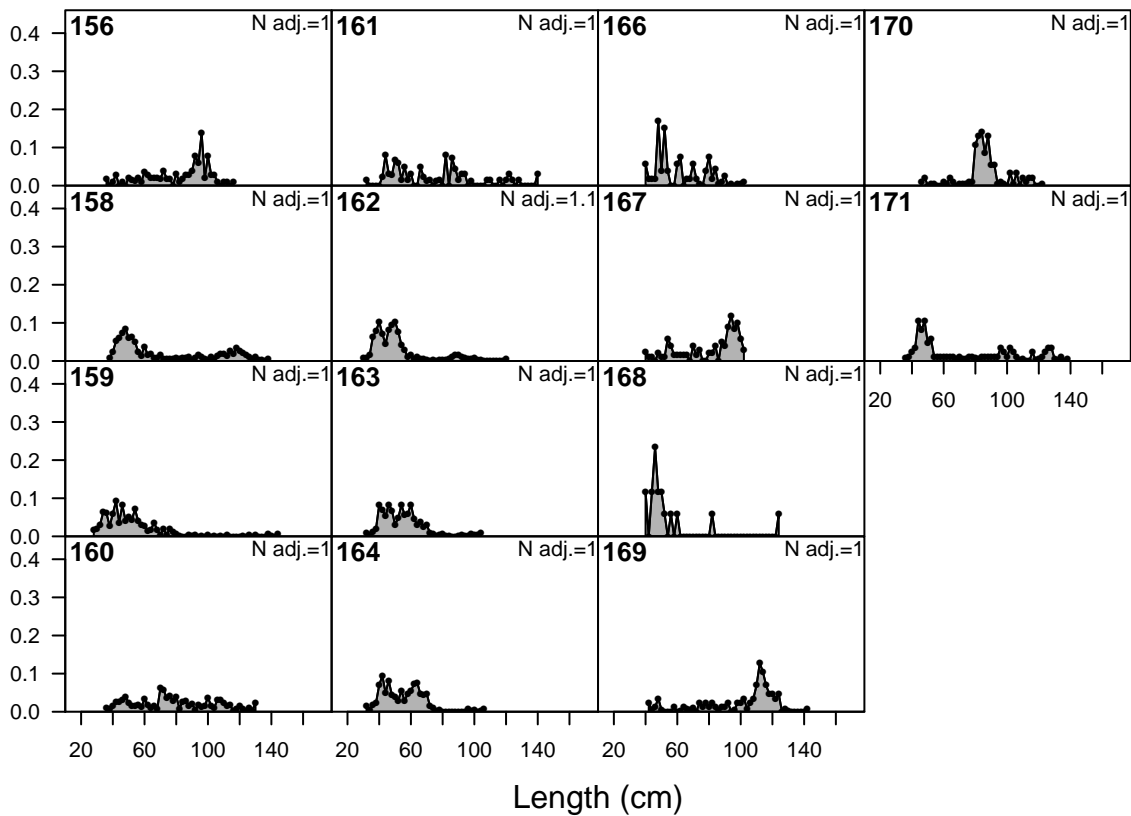
Proportion

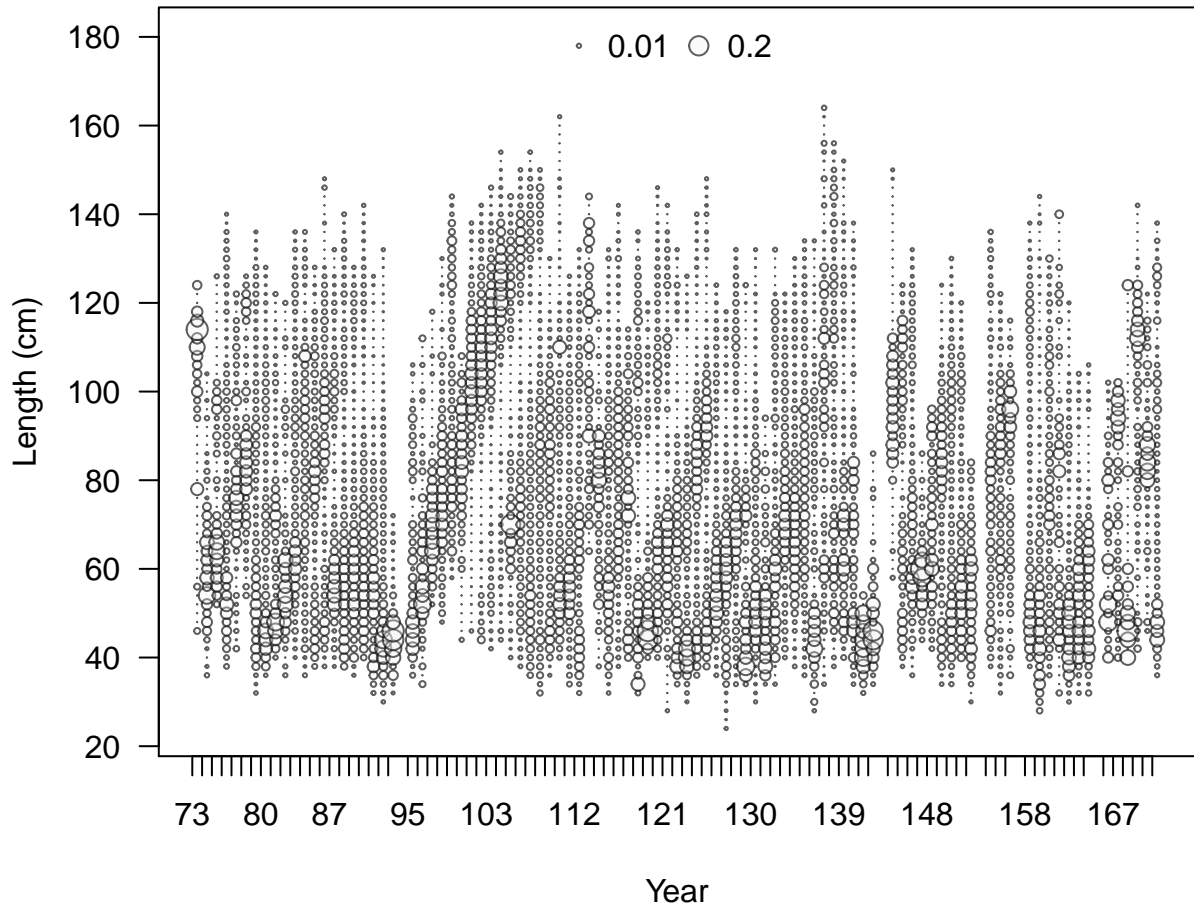


Proportion

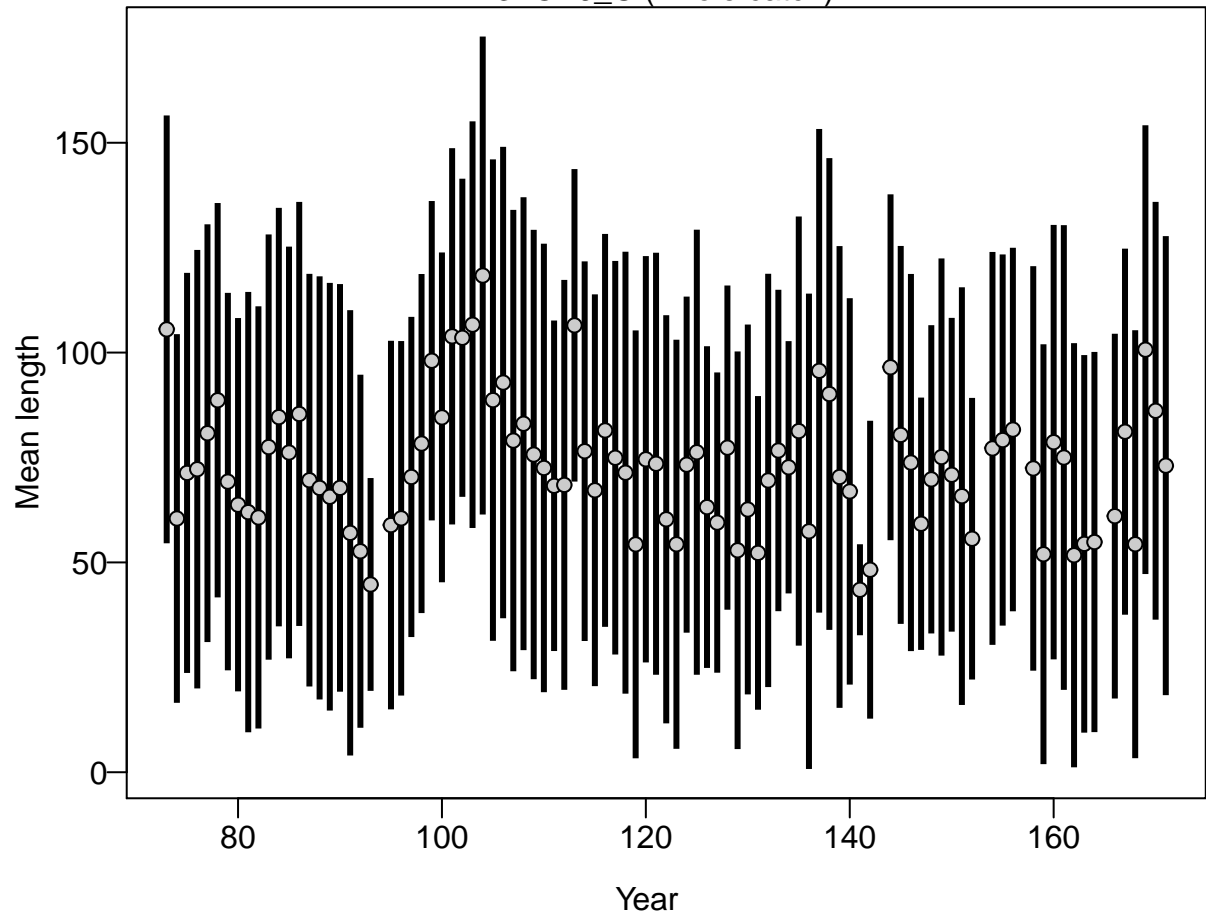


Proportion

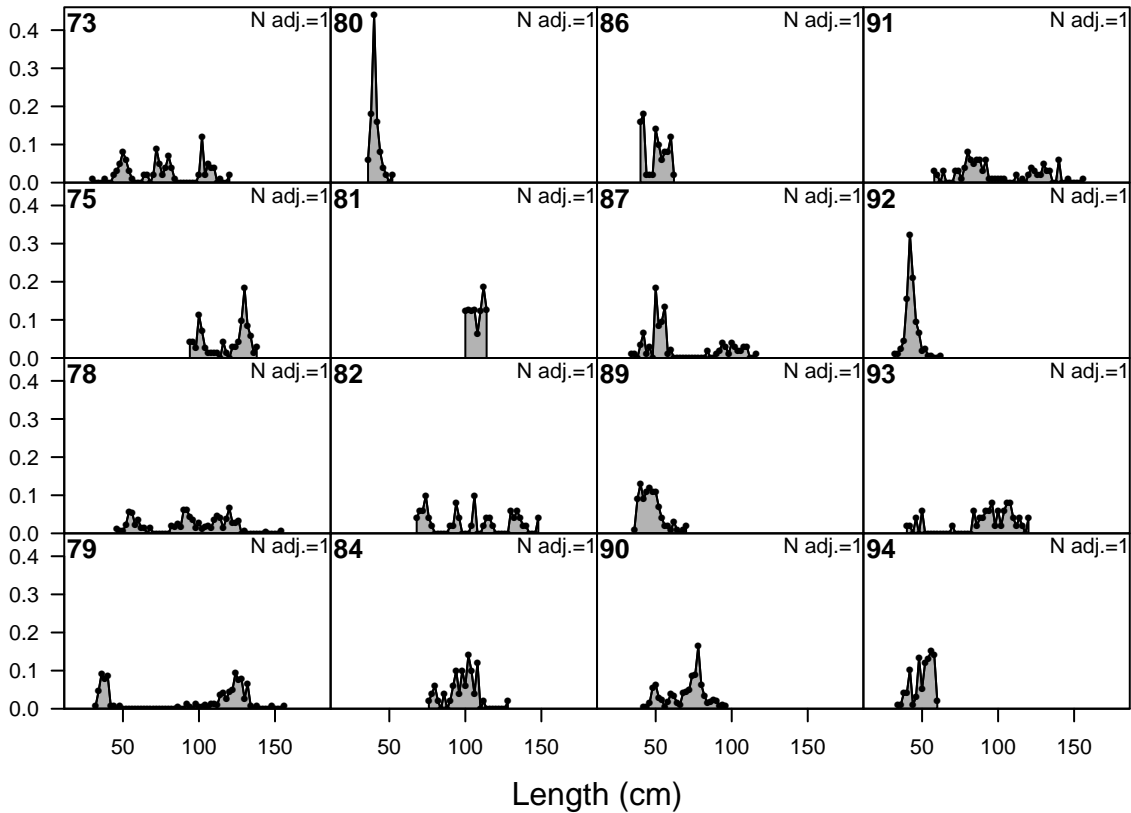




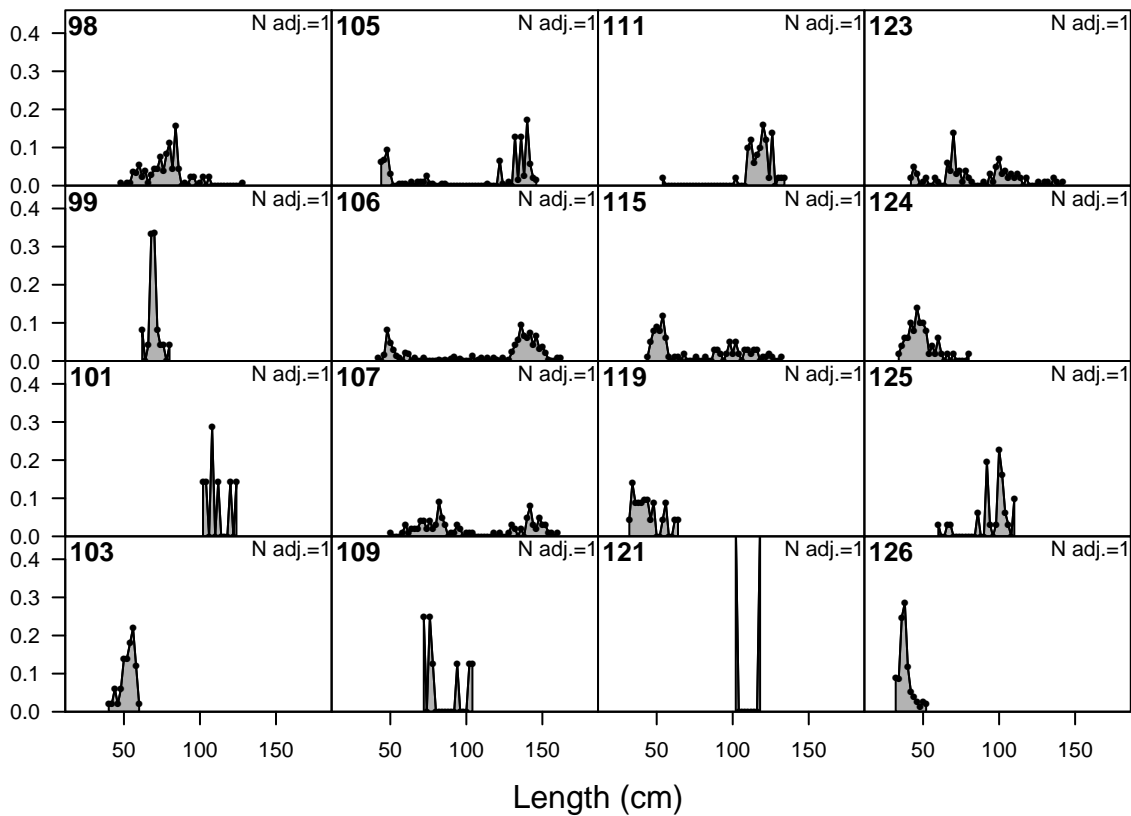
F3-OBJ_C (whole catch)

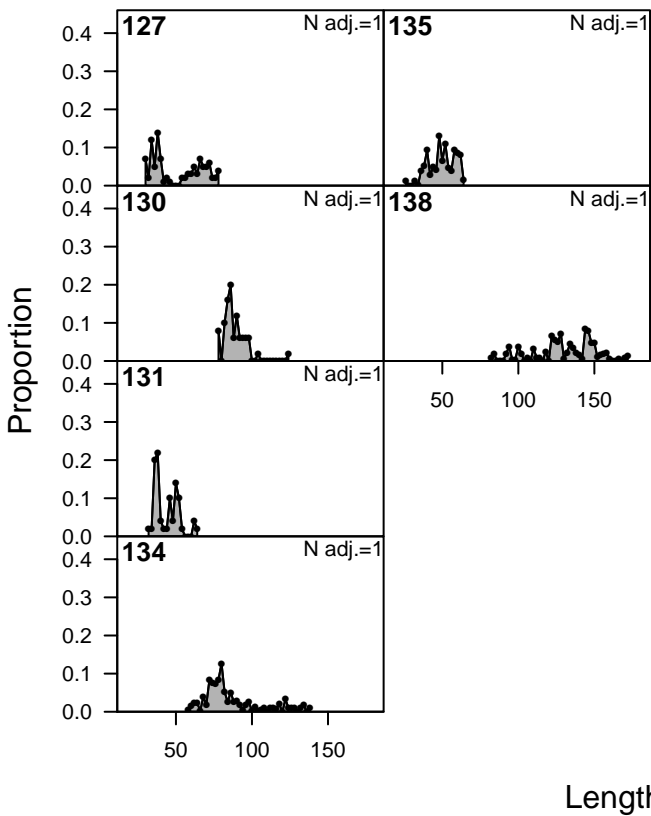


Proportion



Proportion





Length (cm)

150
100
50

73

78

84

89

94

99

105

111

119

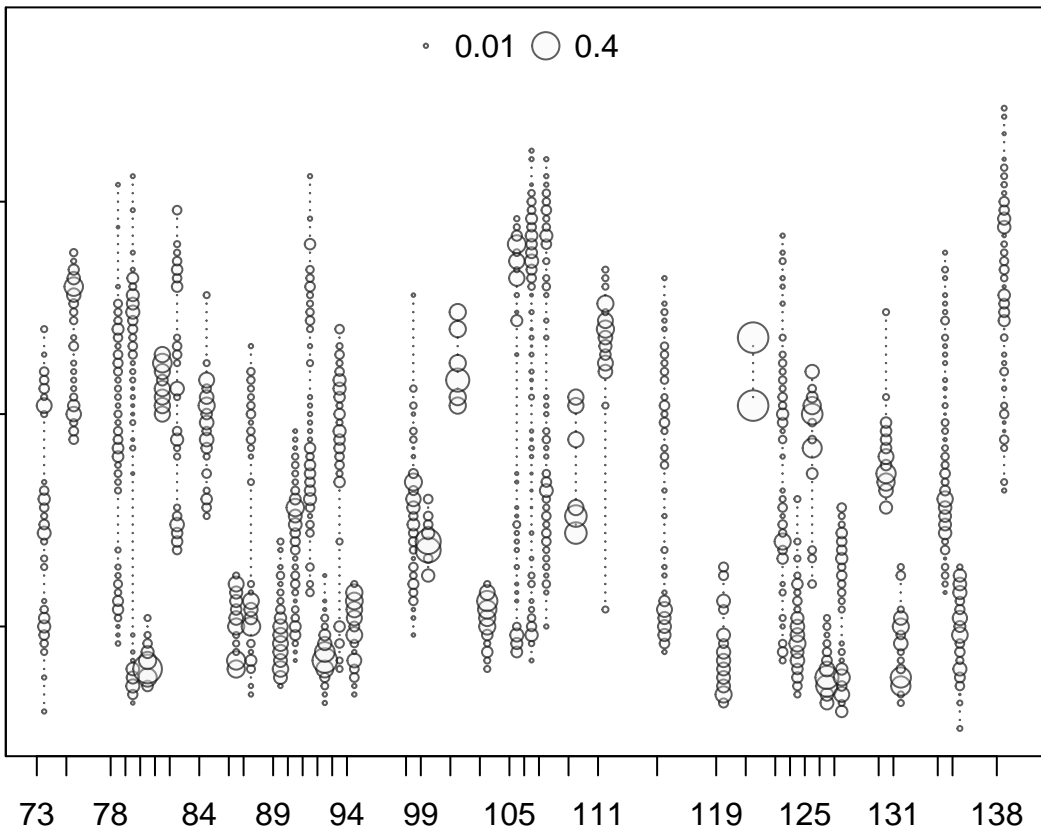
125

131

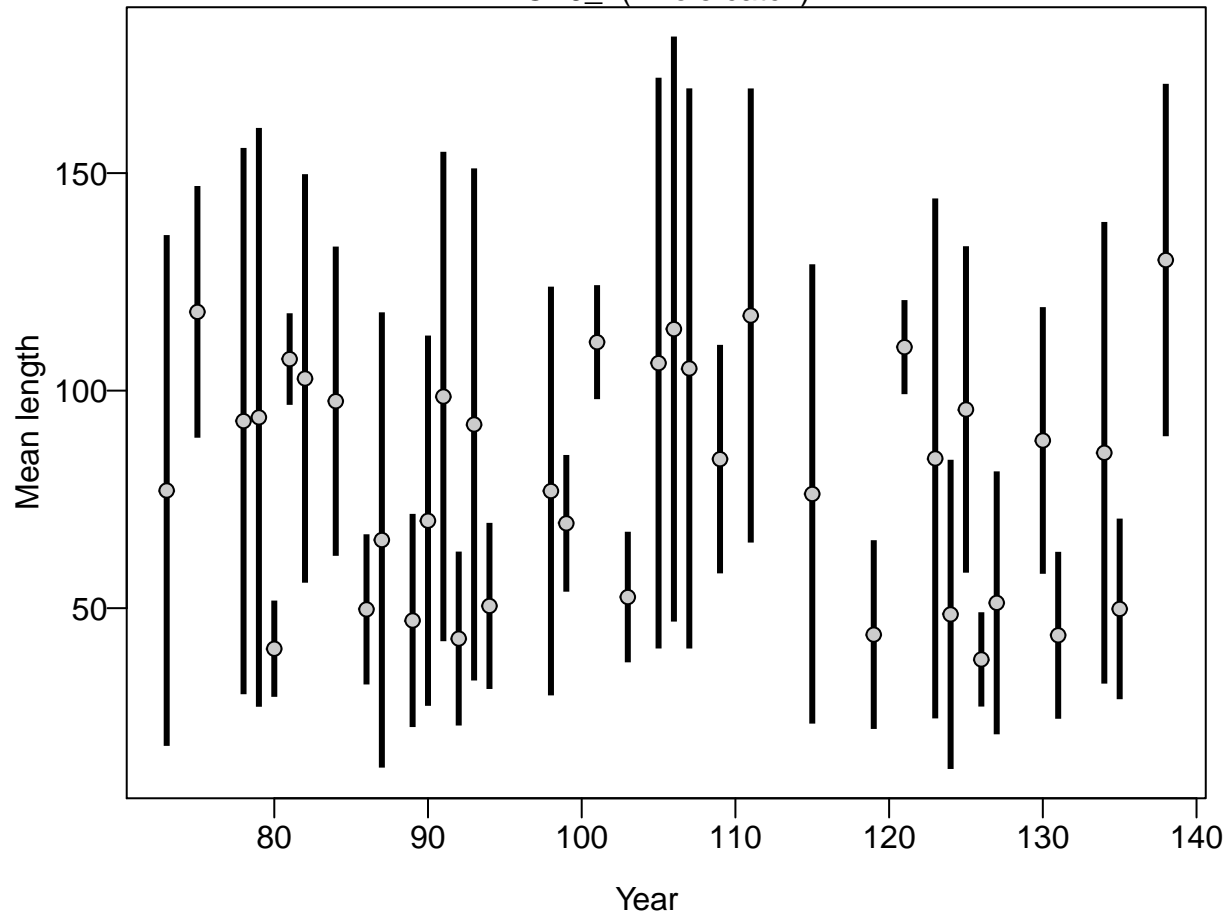
138

Year

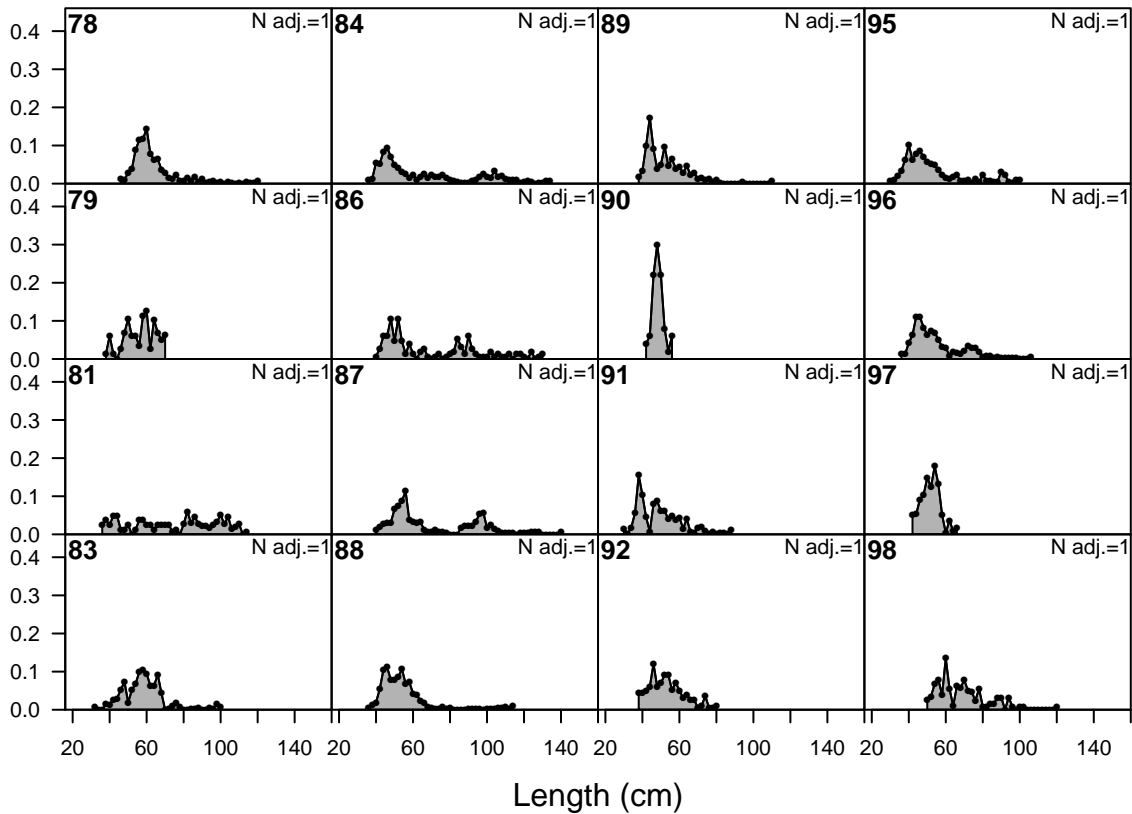
◦ 0.01 ○ 0.4



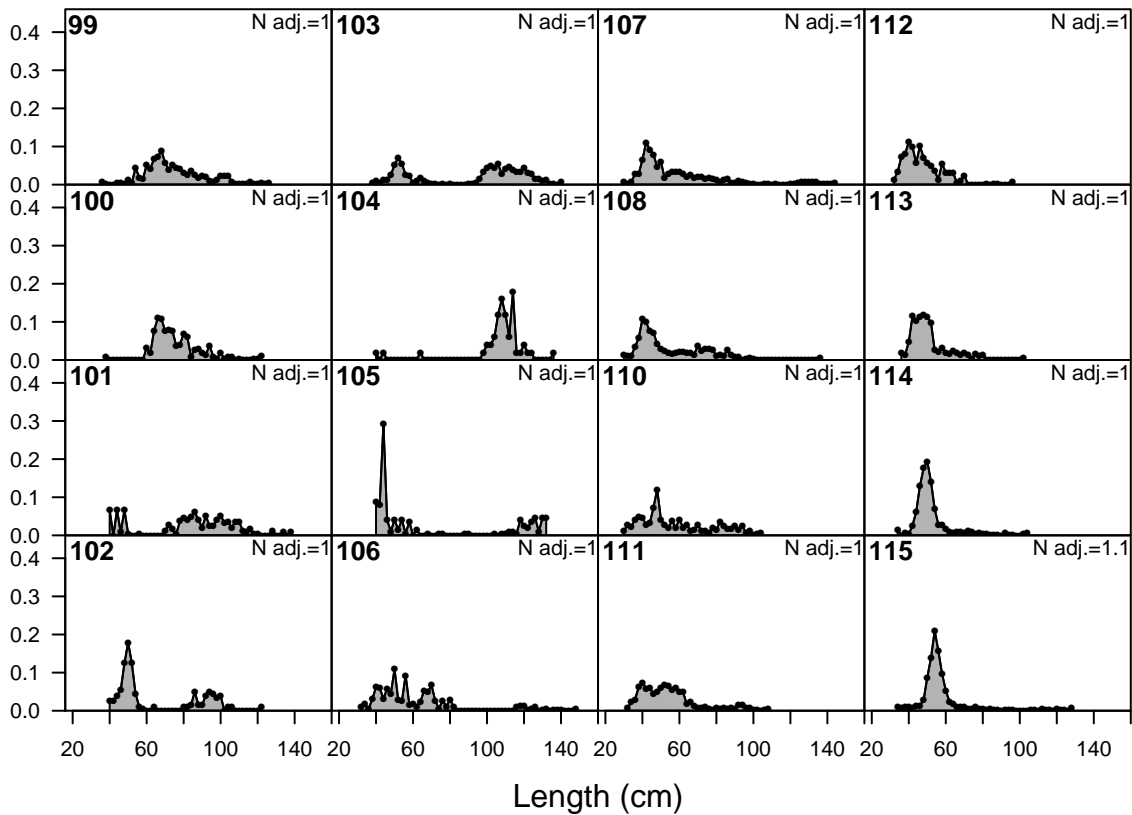
F4-OBJ_I (whole catch)



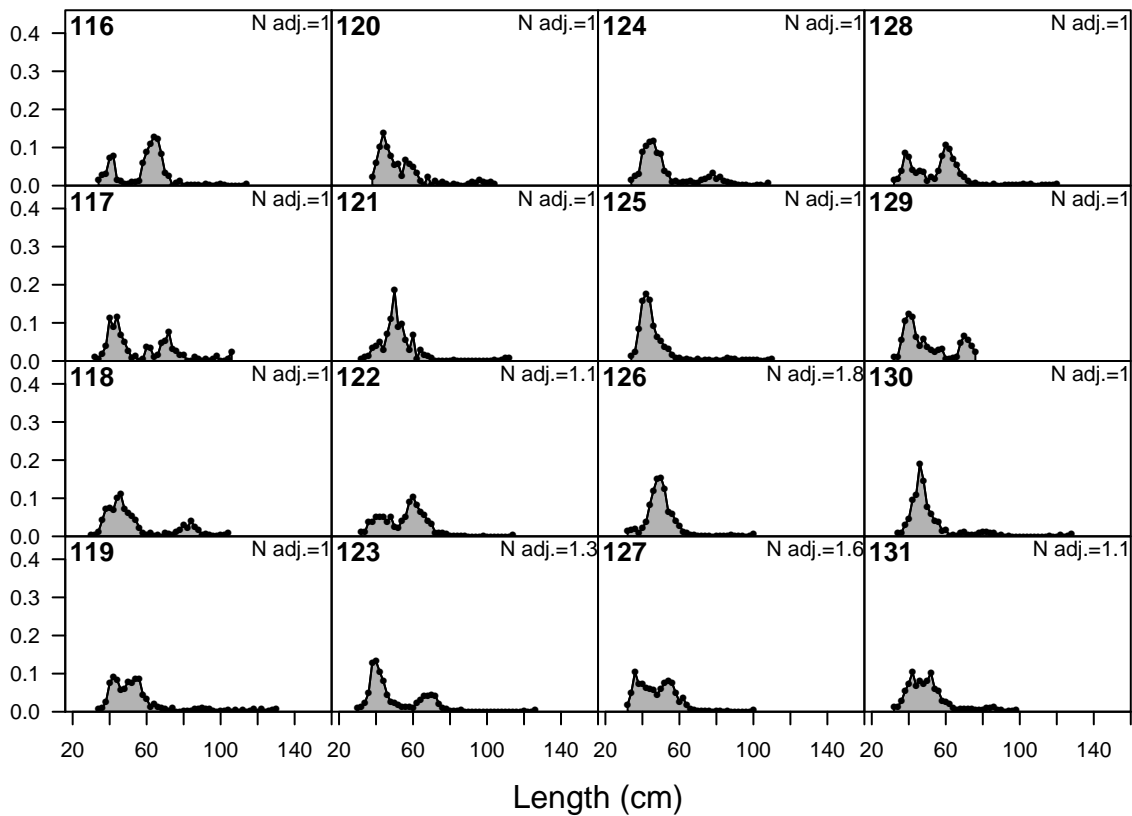
Proportion



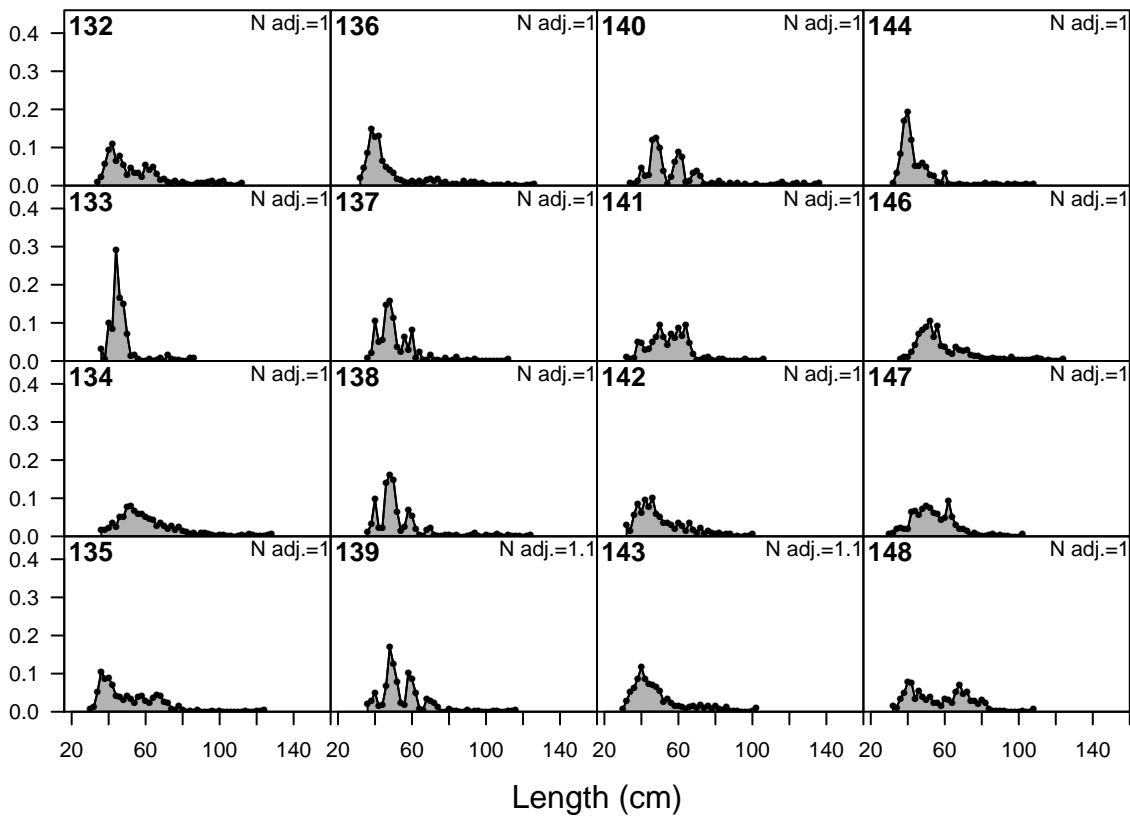
Proportion



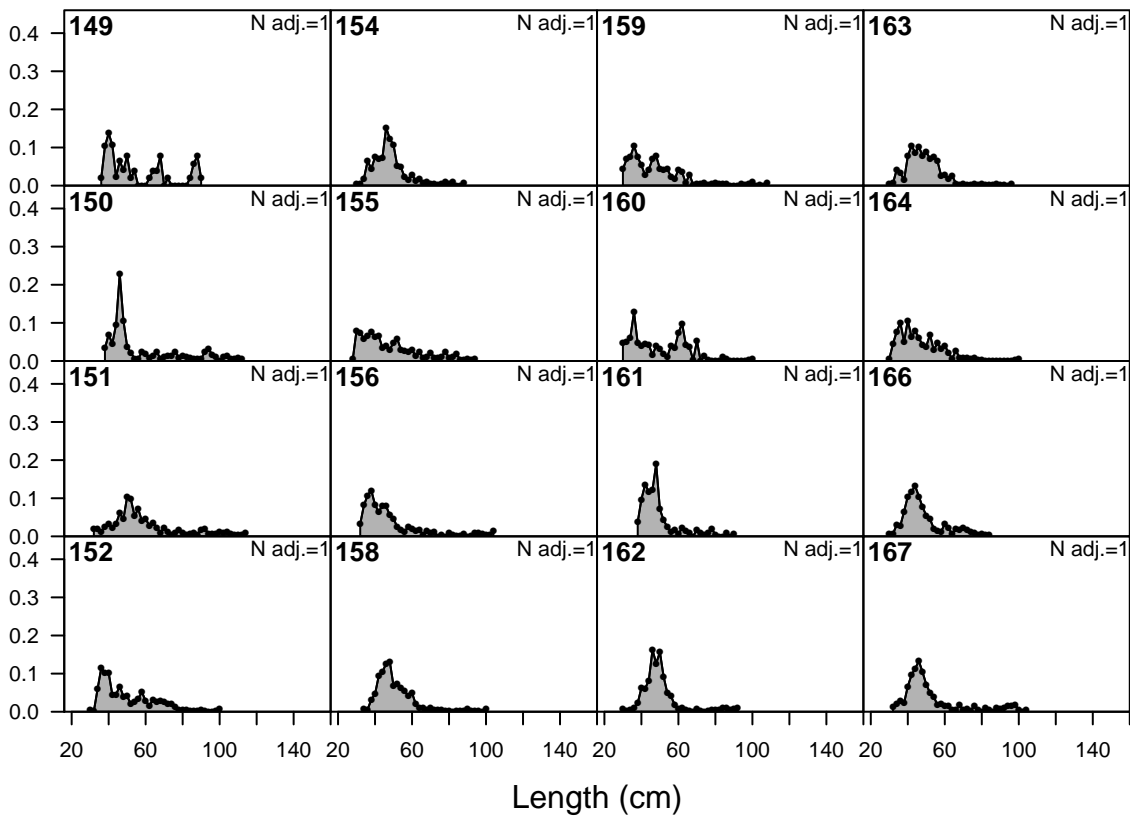
Proportion

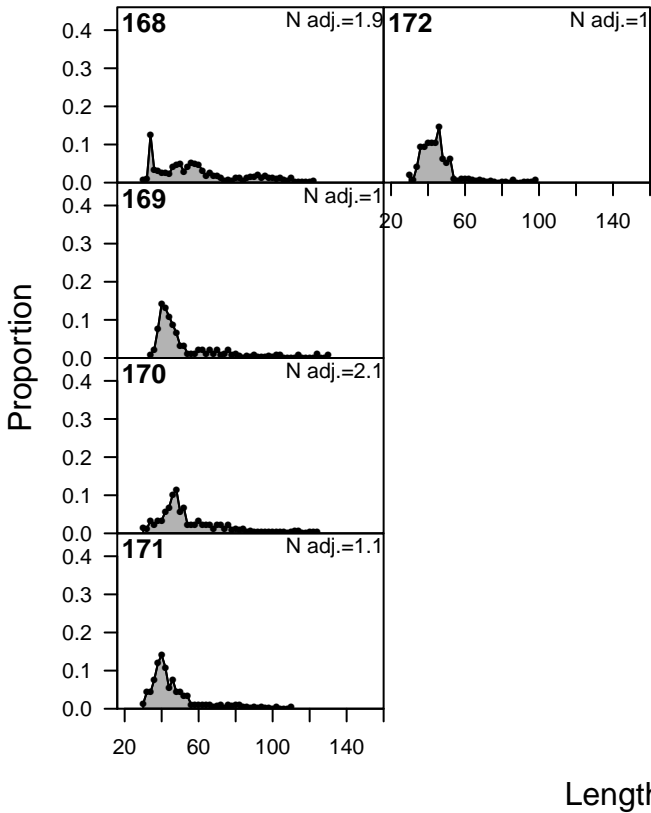


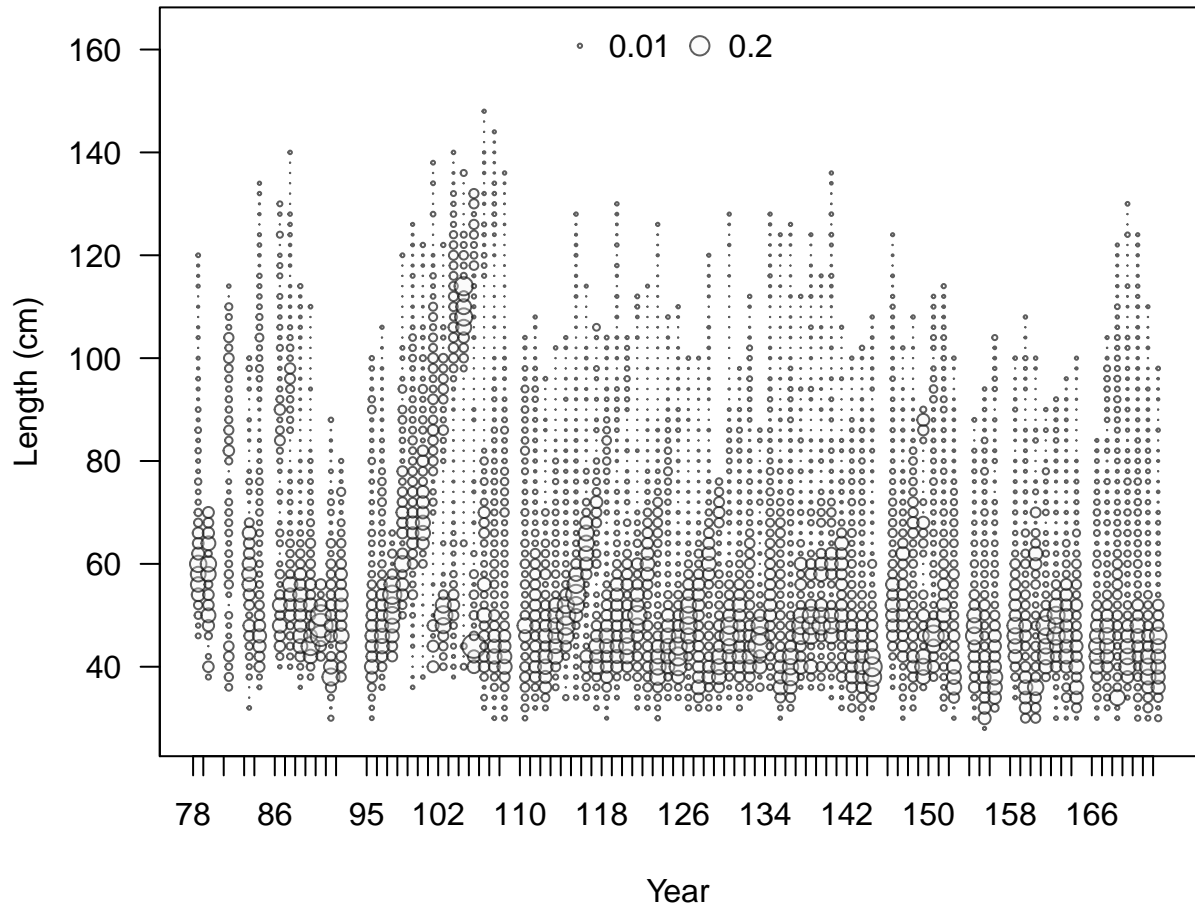
Proportion



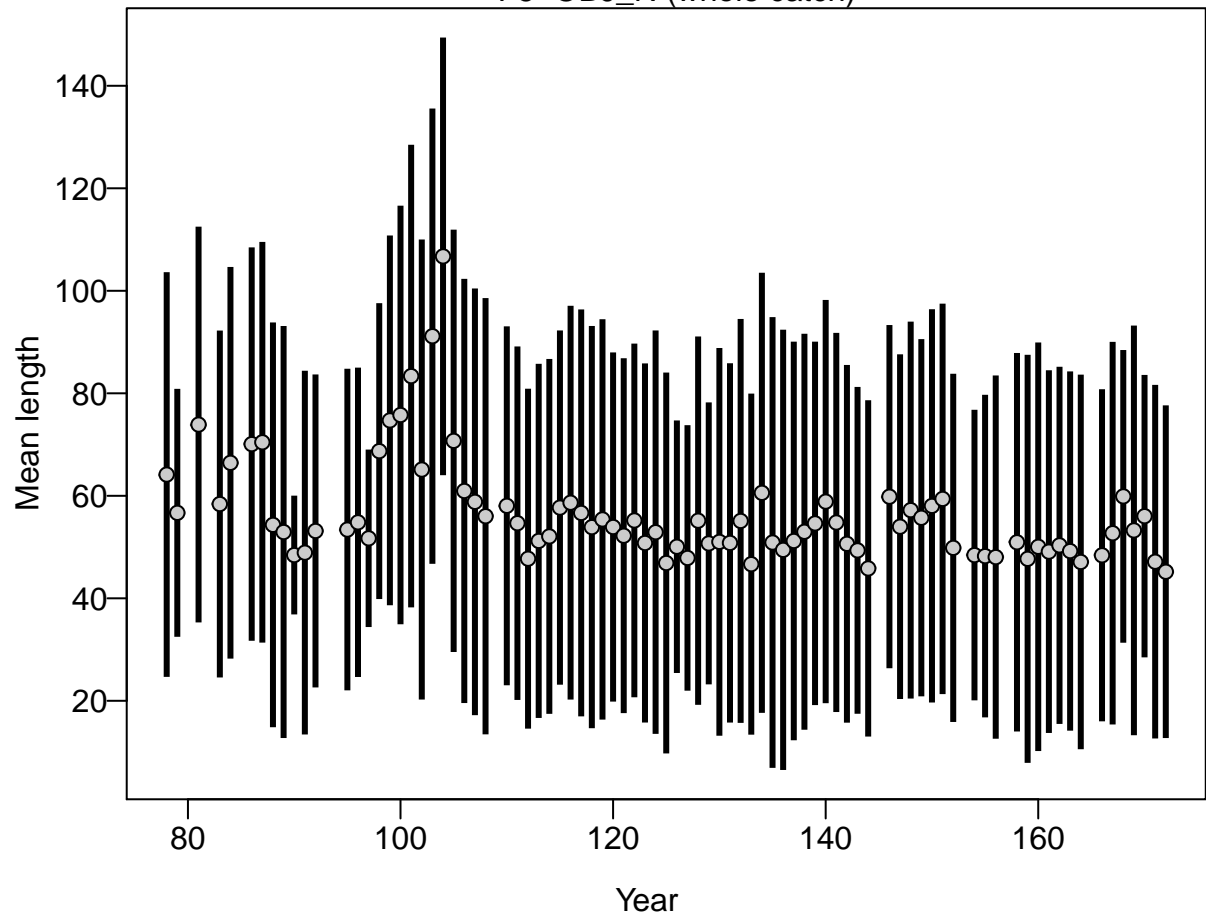
Proportion



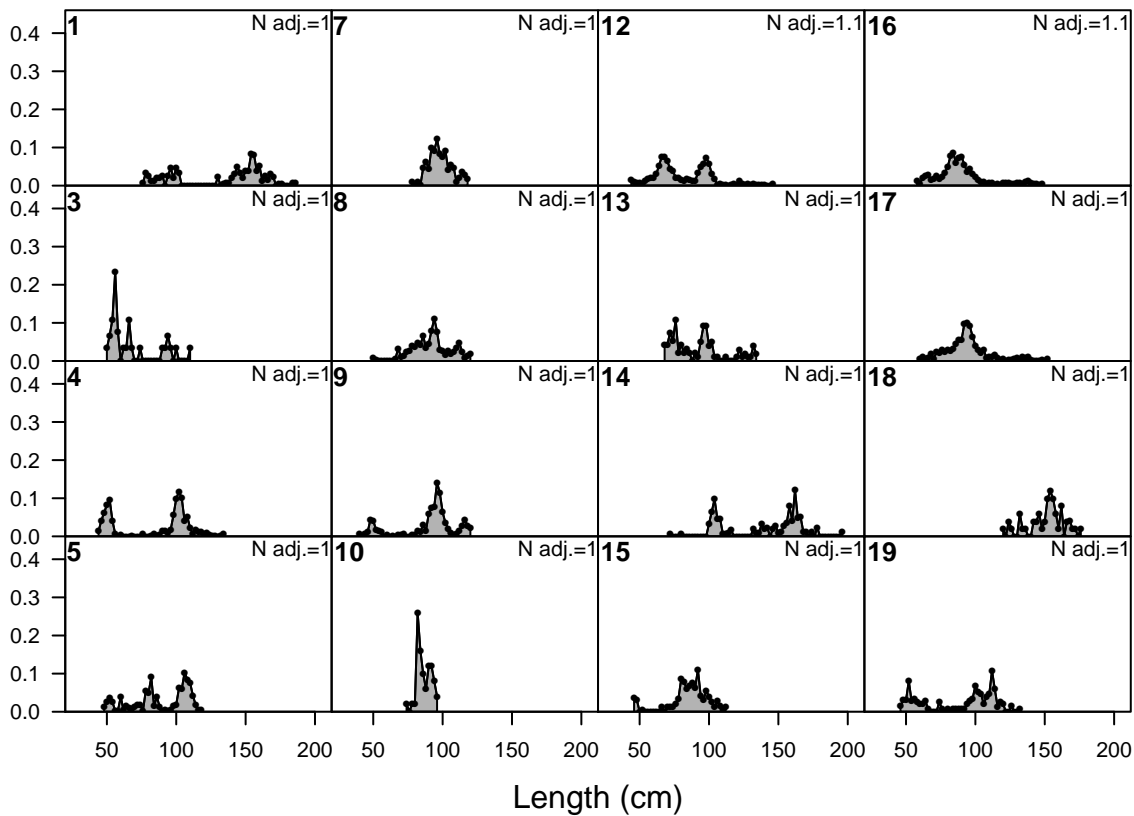




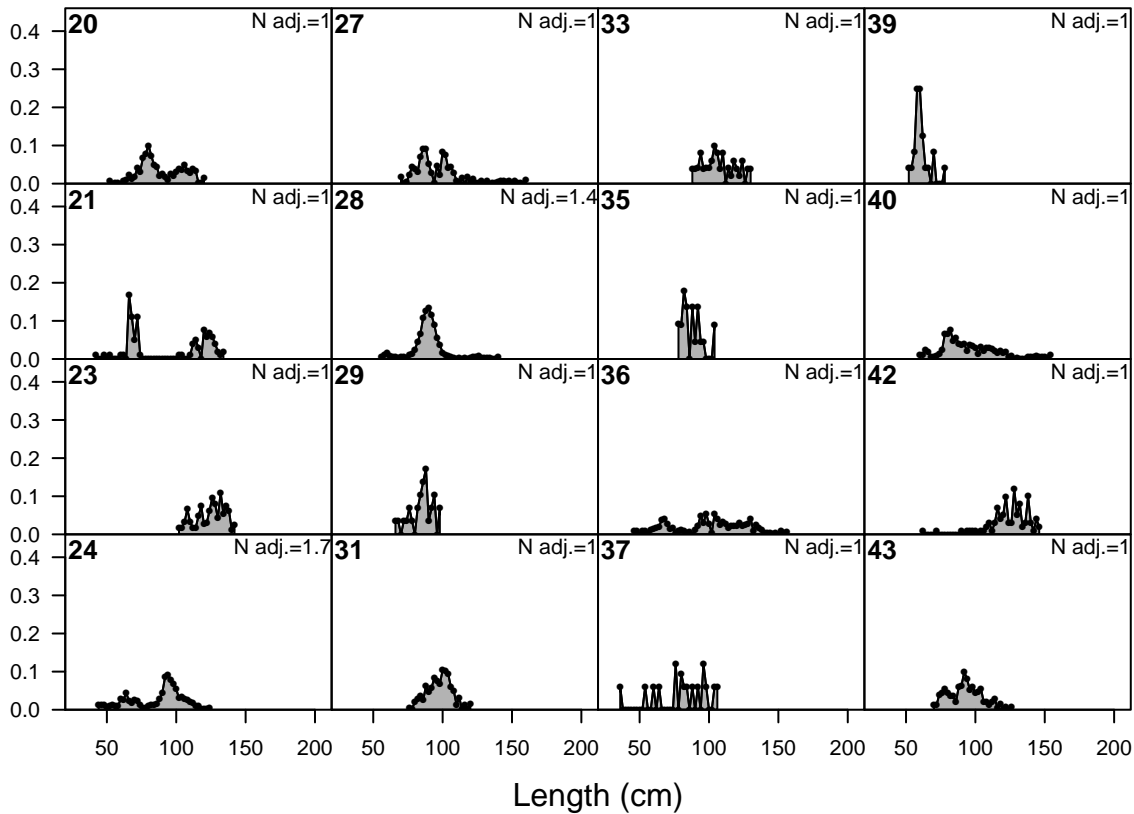
F5-OBJ_N (whole catch)

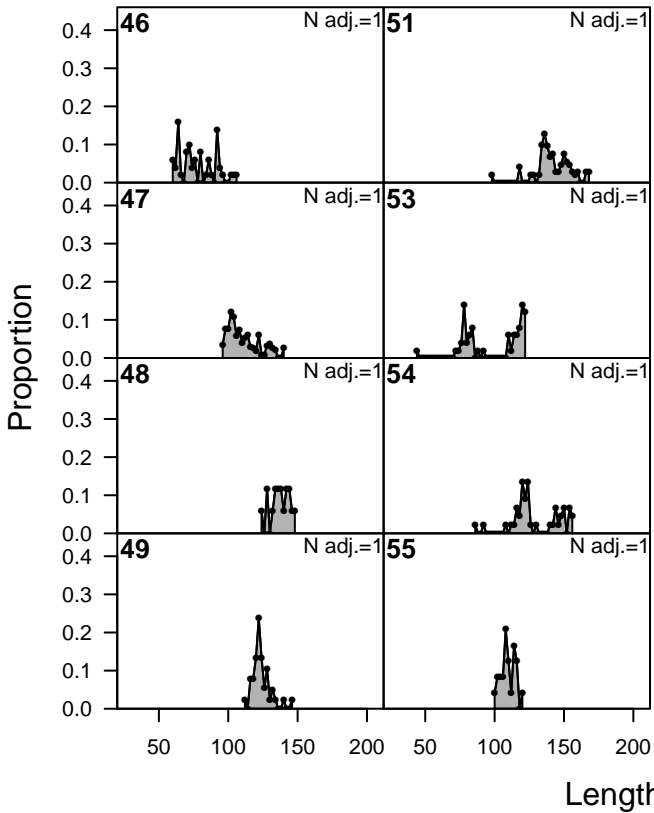


Proportion



Proportion





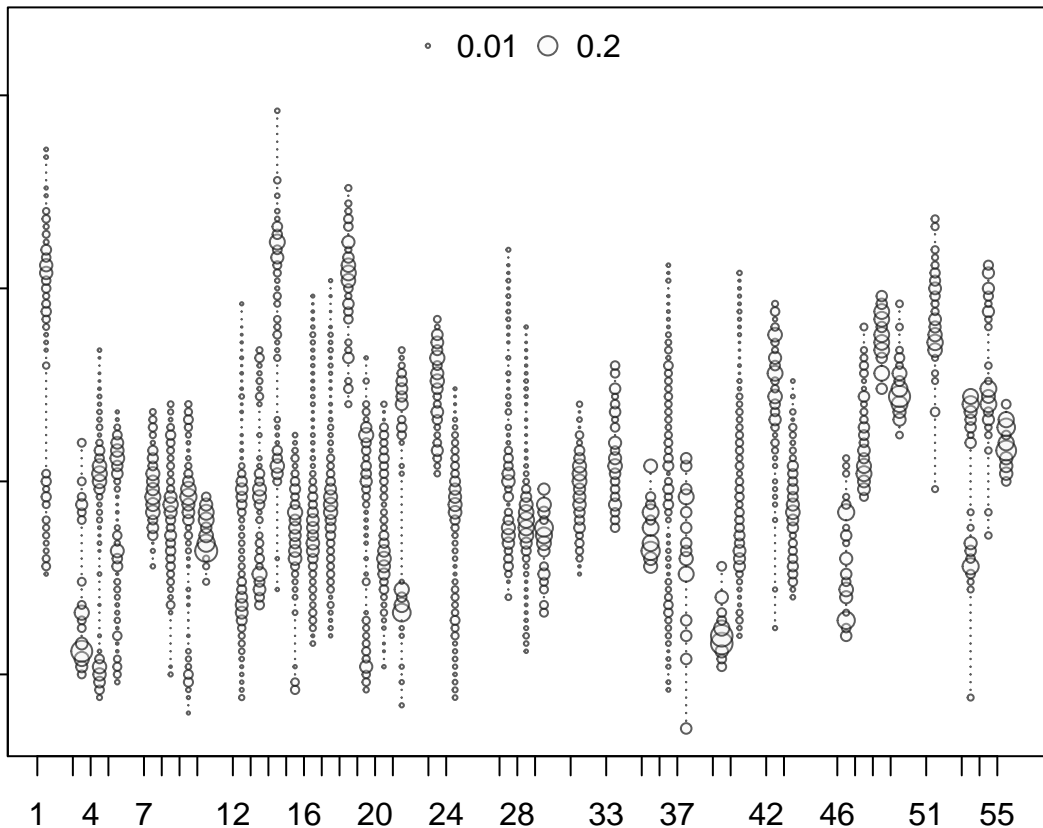
Length (cm)

200
150
100
50

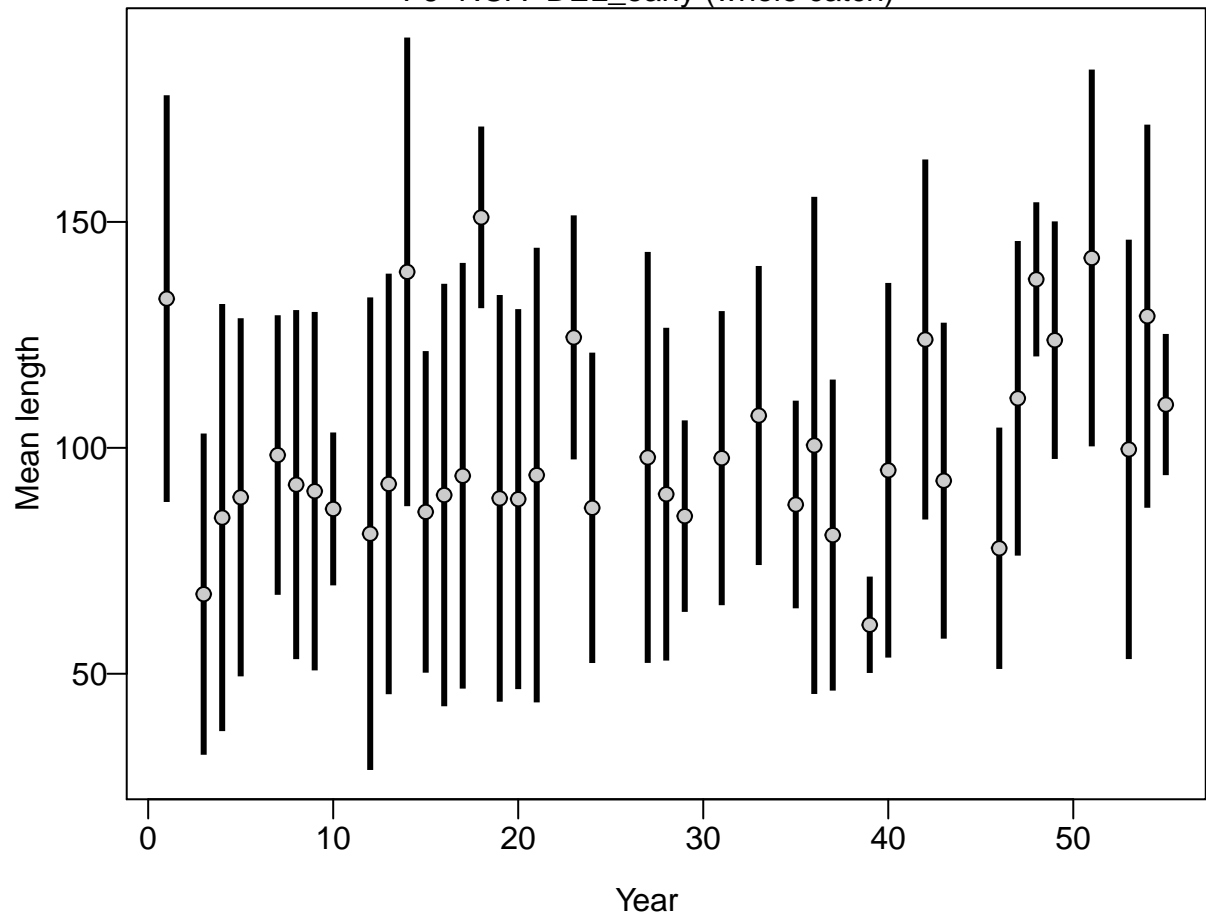
1 4 7 12 16 20 24 28 33 37 42 46 51 55

Year

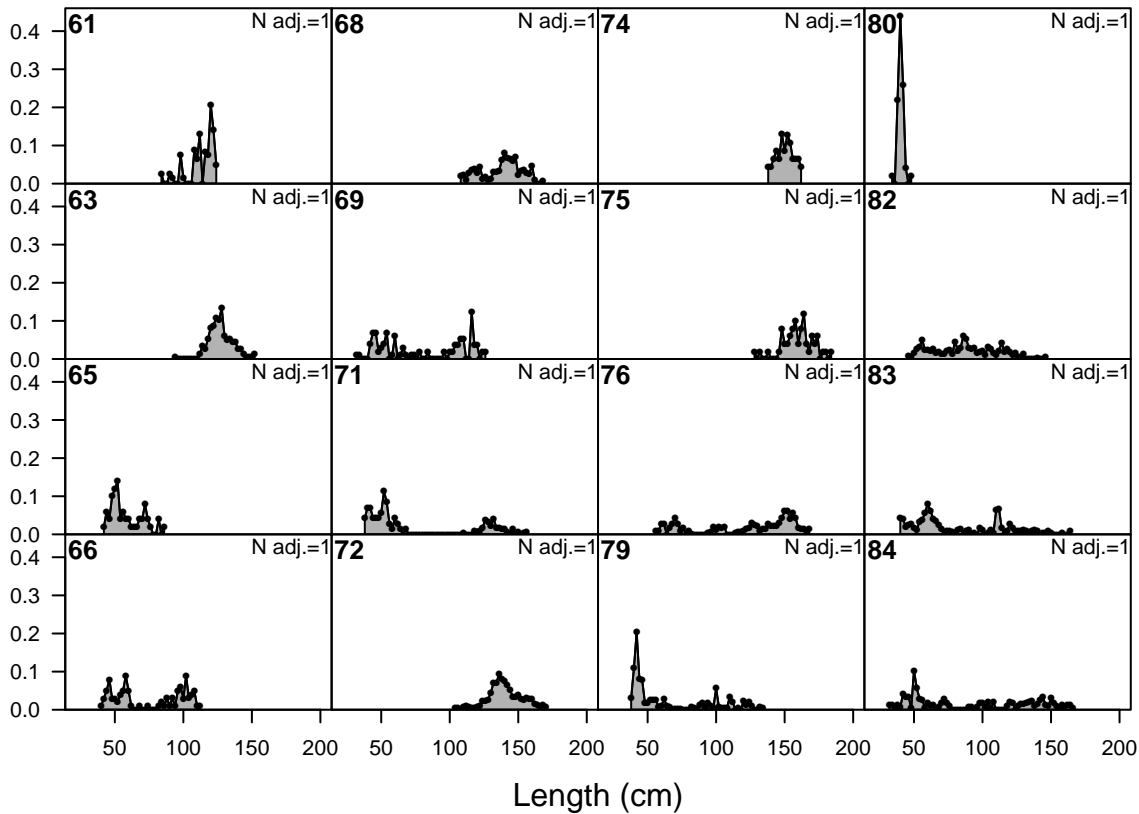
◦ 0.01 ○ 0.2



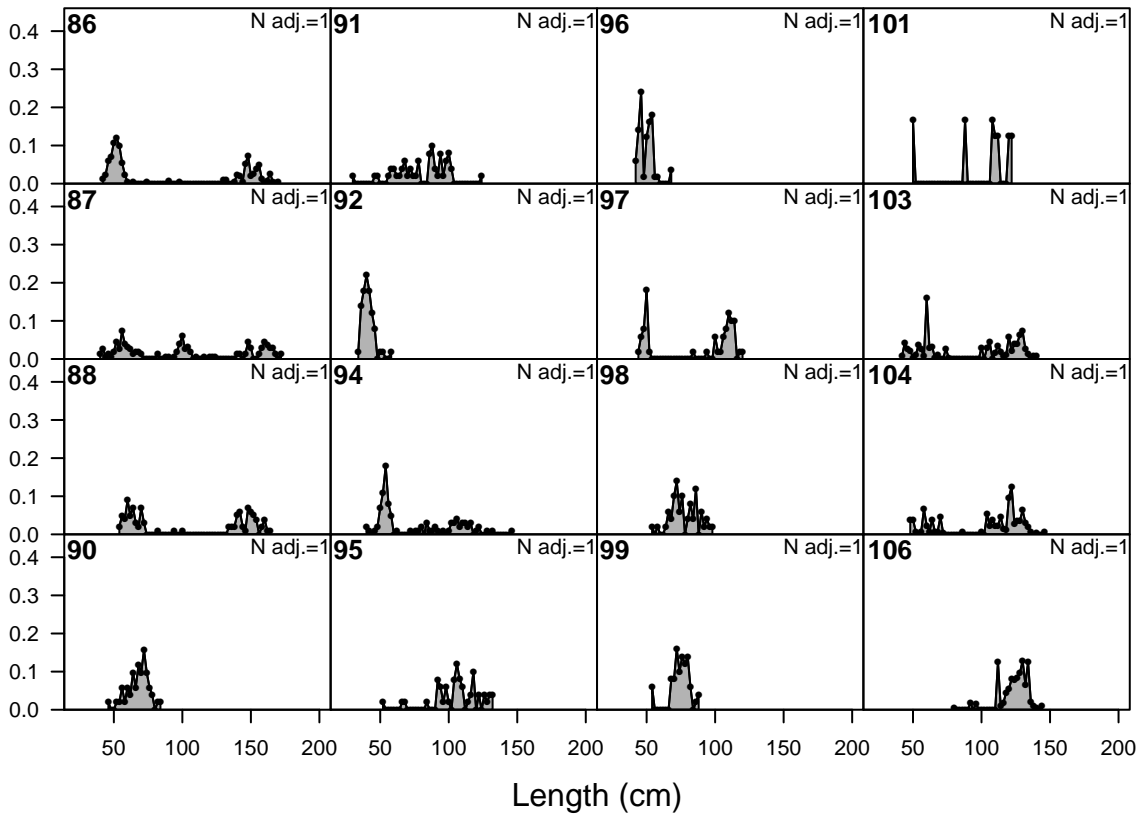
F6-NOA-DEL_early (whole catch)



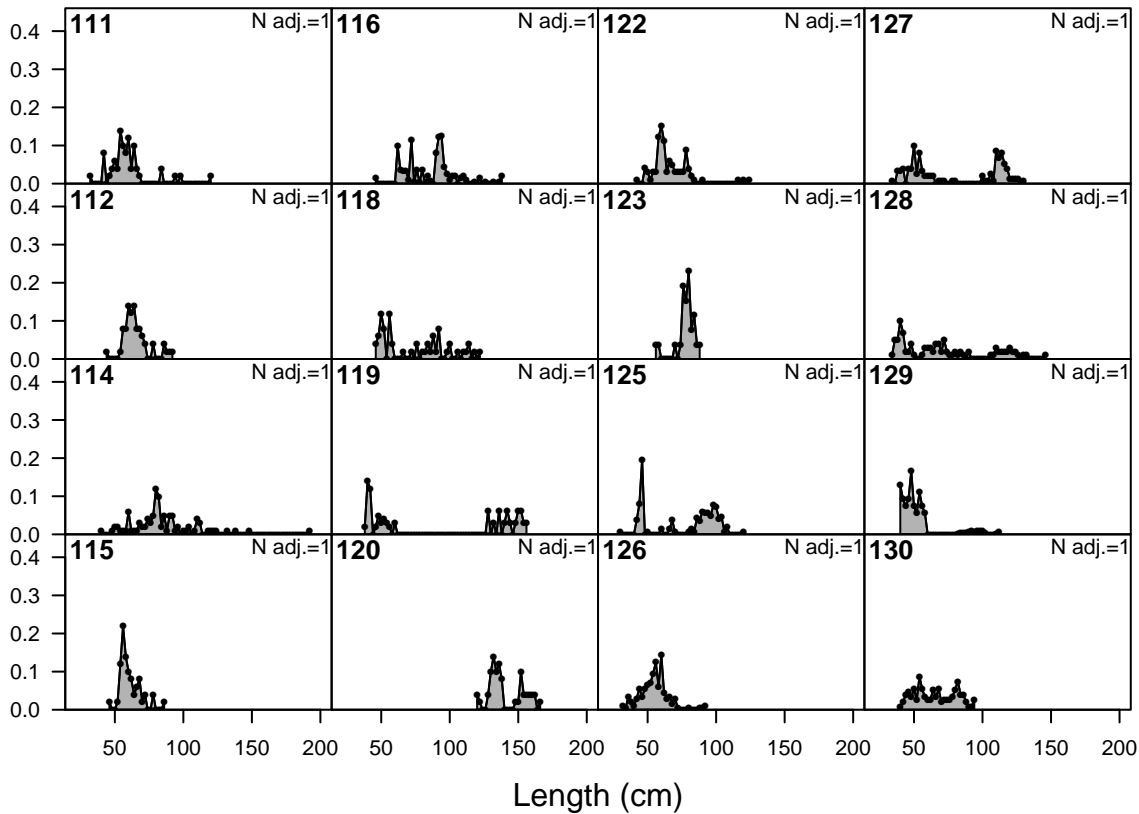
Proportion

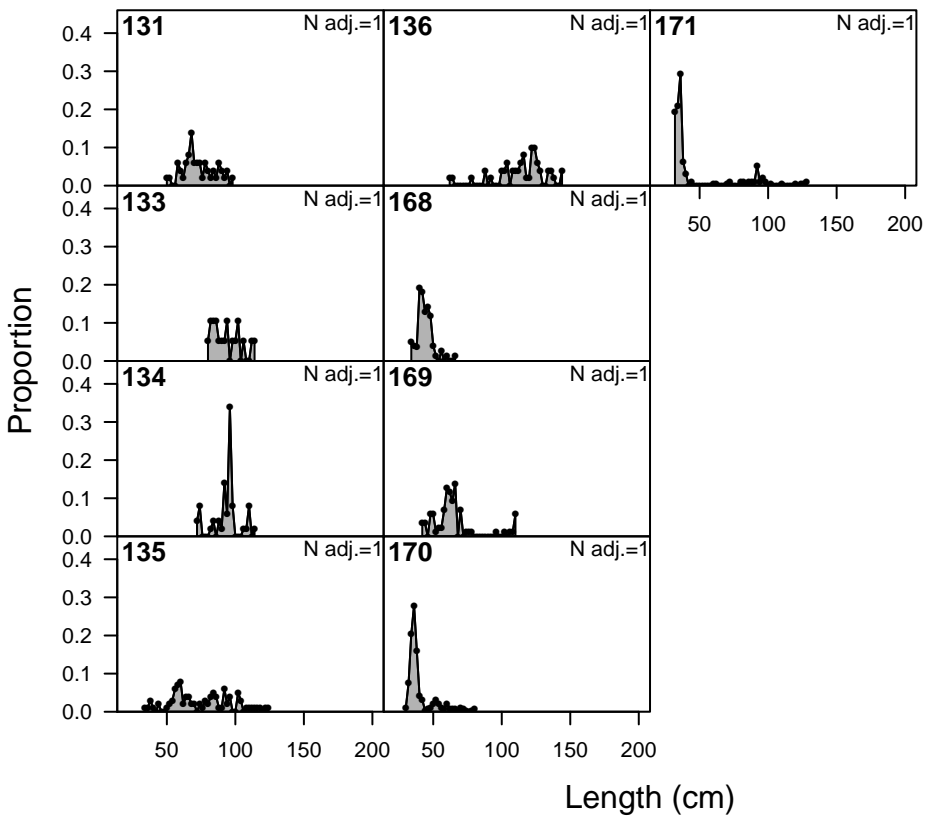


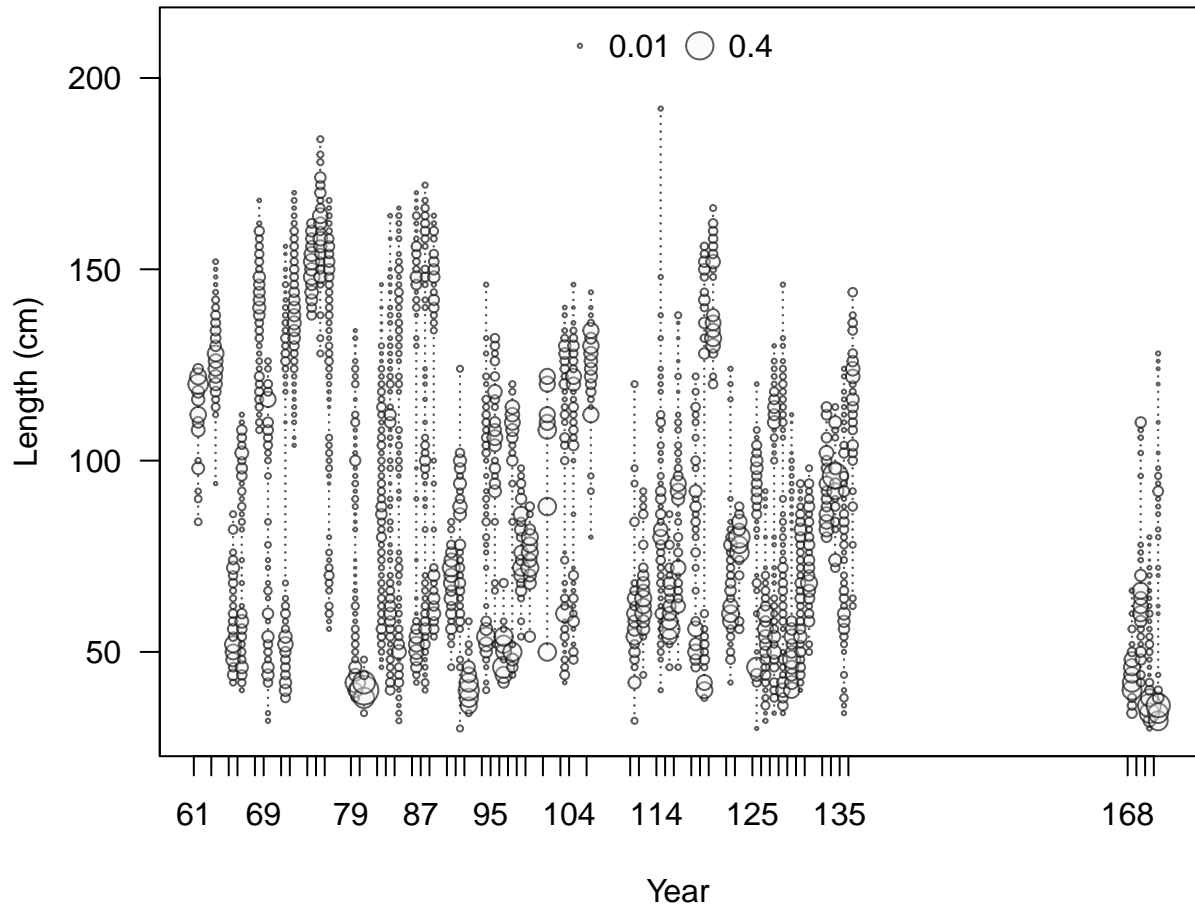
Proportion



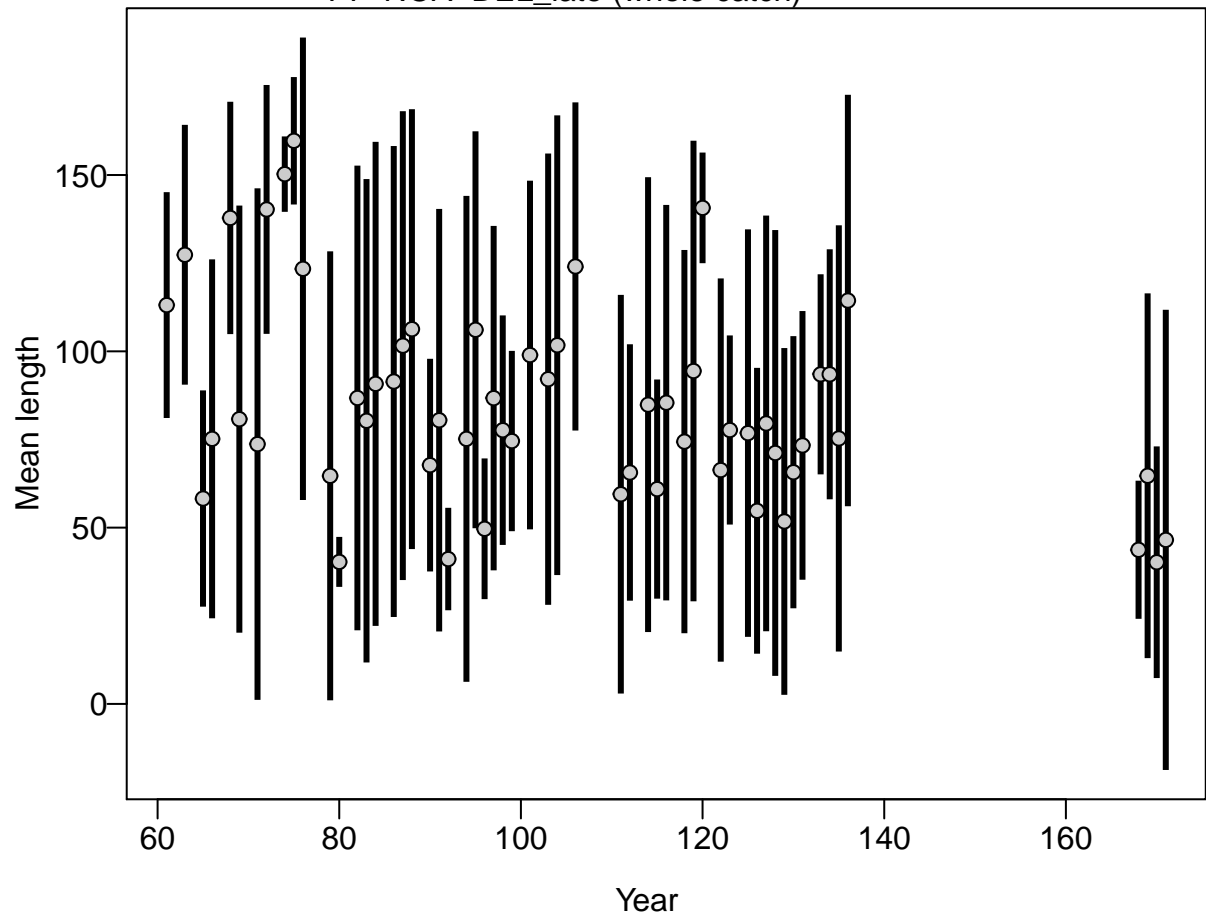
Proportion



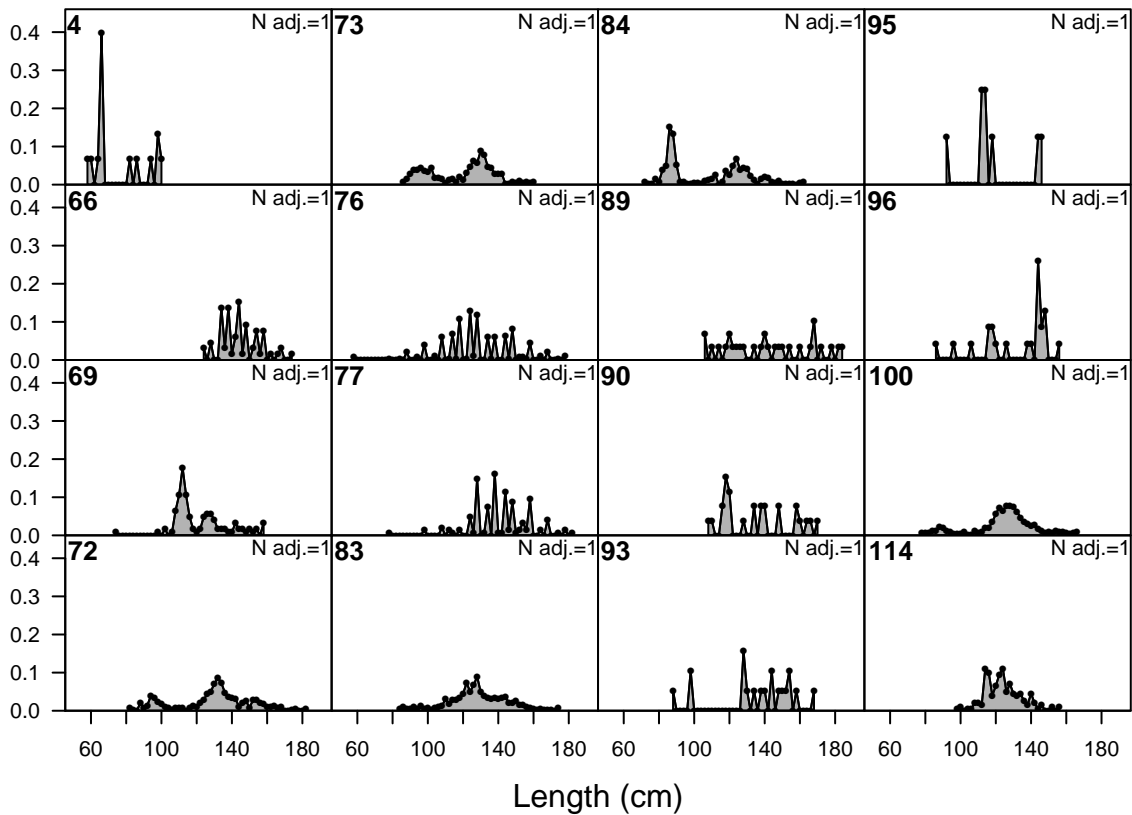




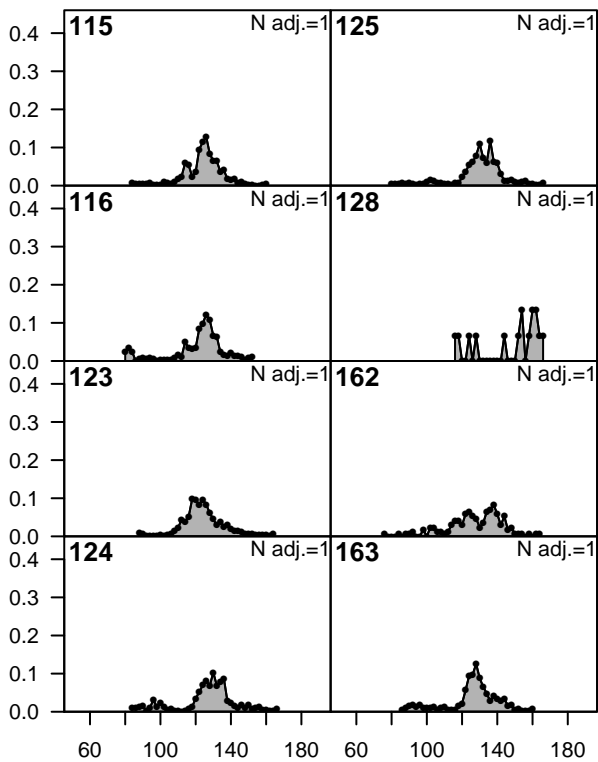
F7-NOA-DEL_late (whole catch)



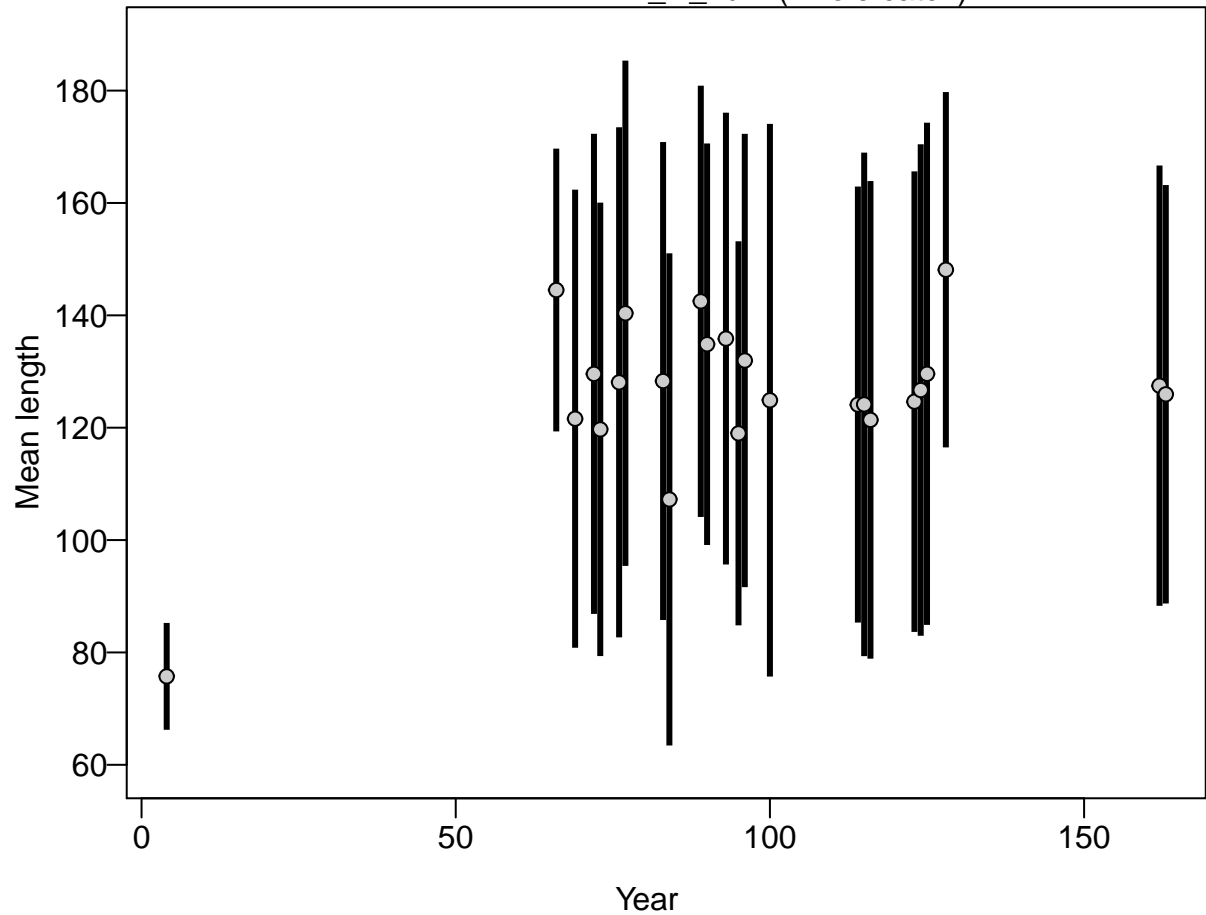
Proportion



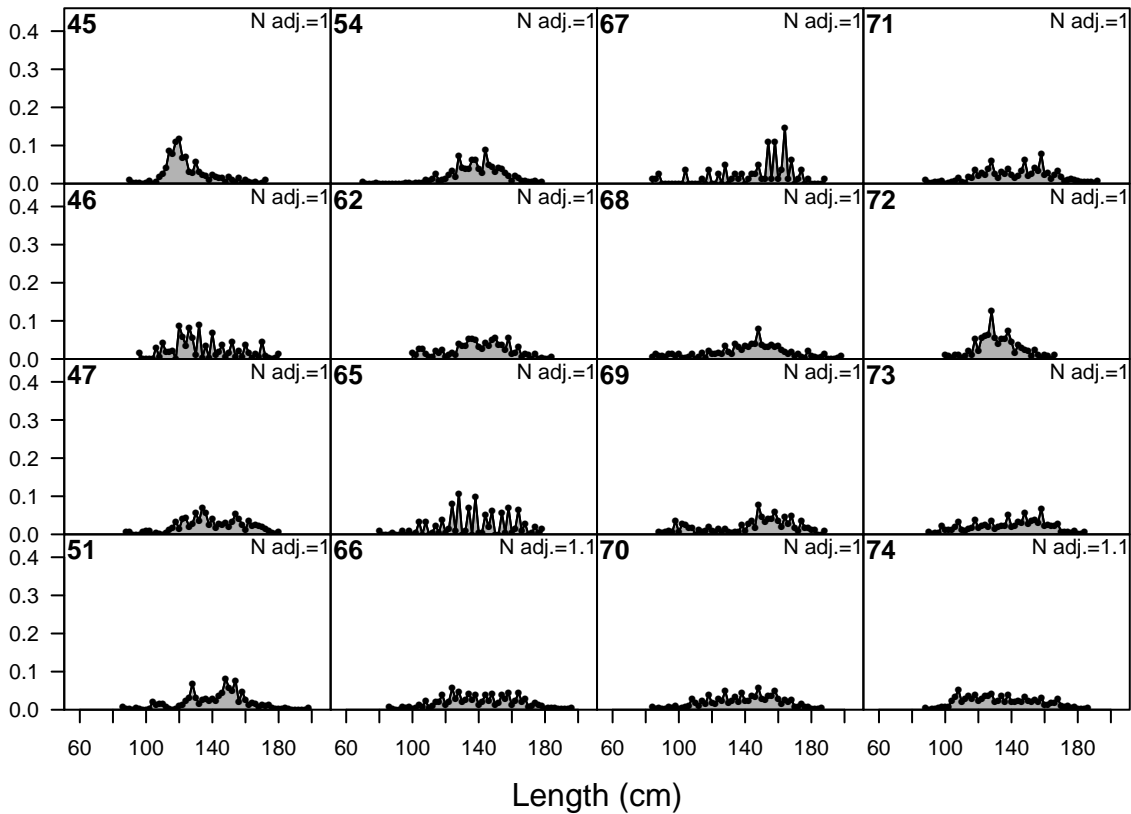
Proportion



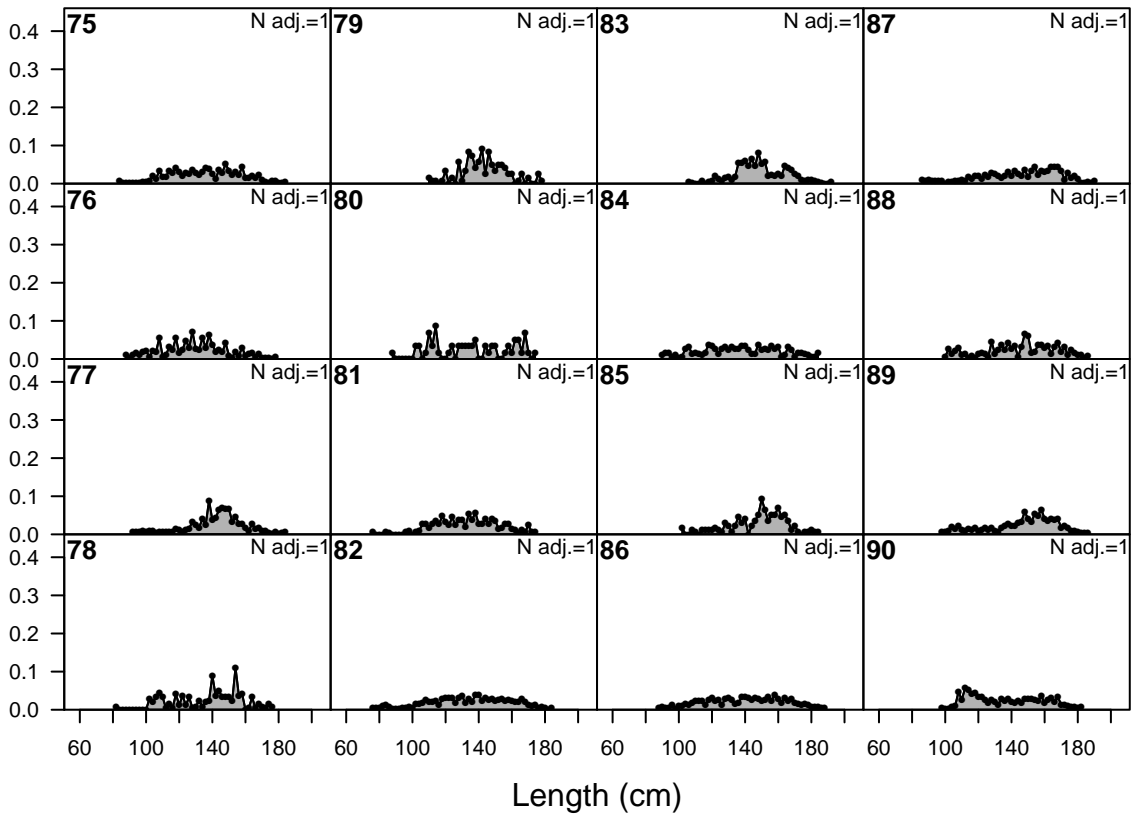
F12-LL_N_num (whole catch)



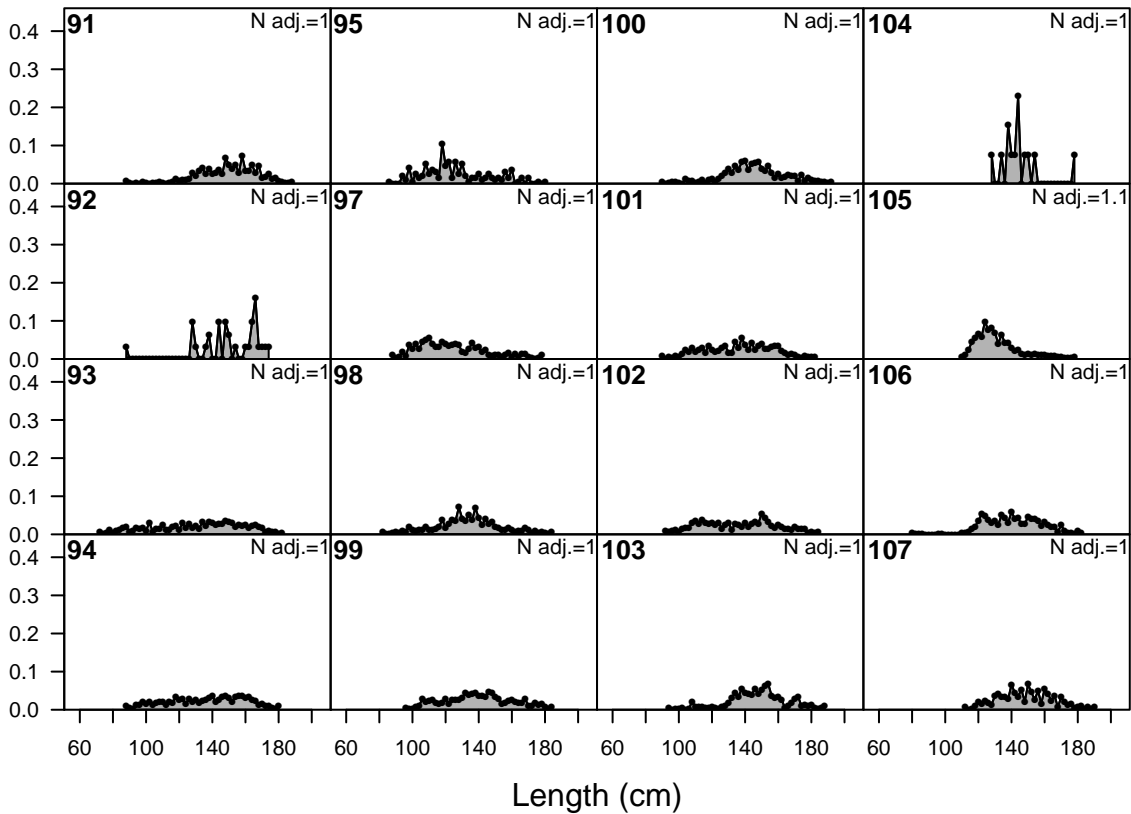
Proportion



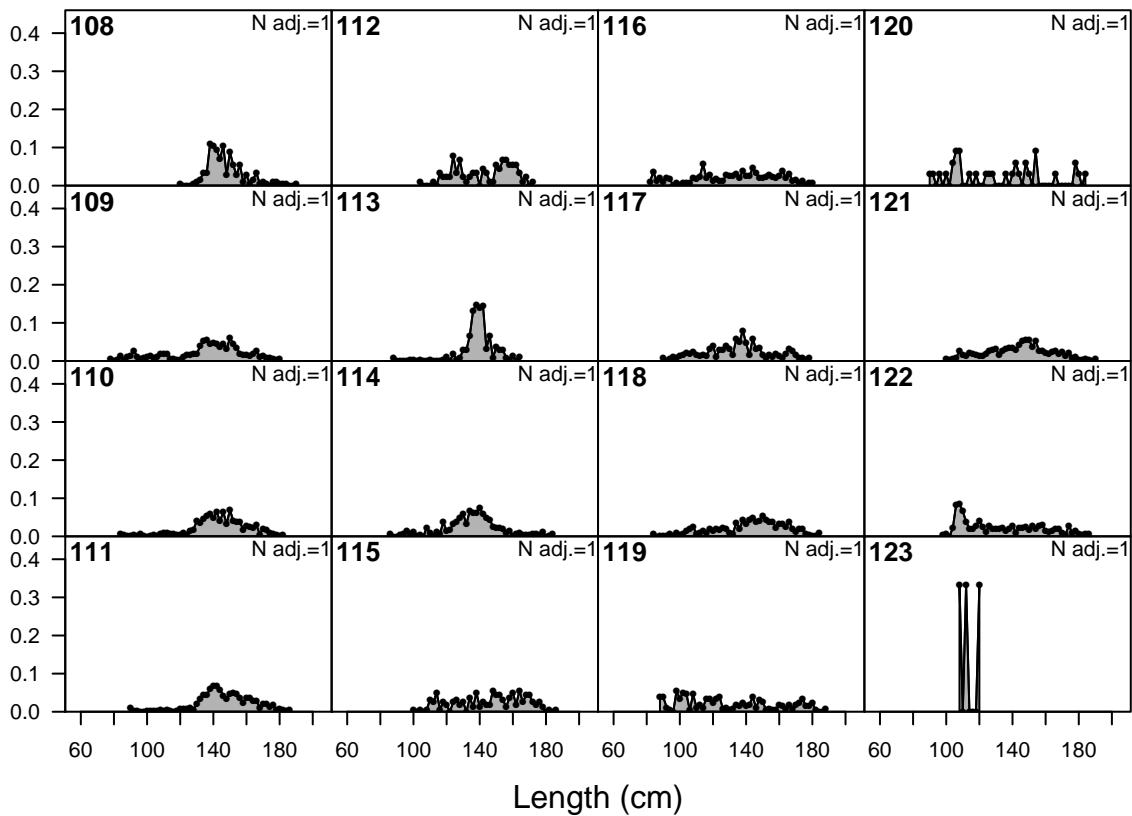
Proportion



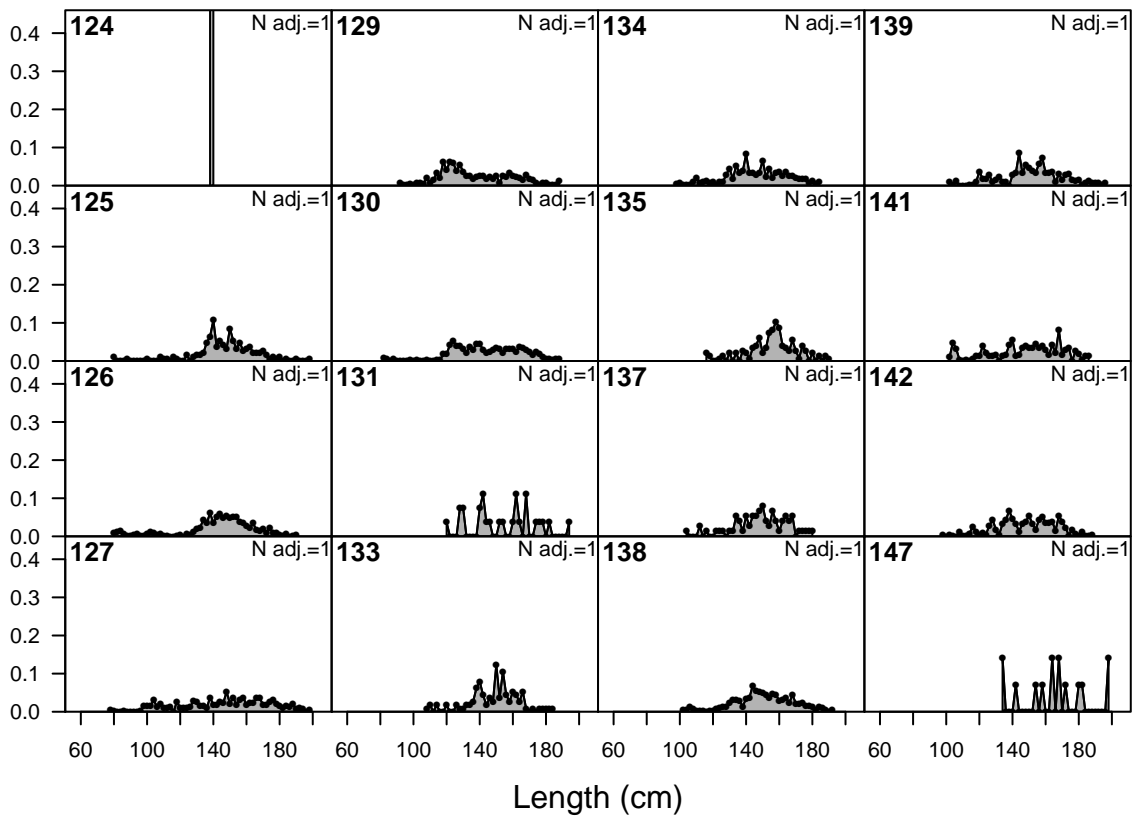
Proportion

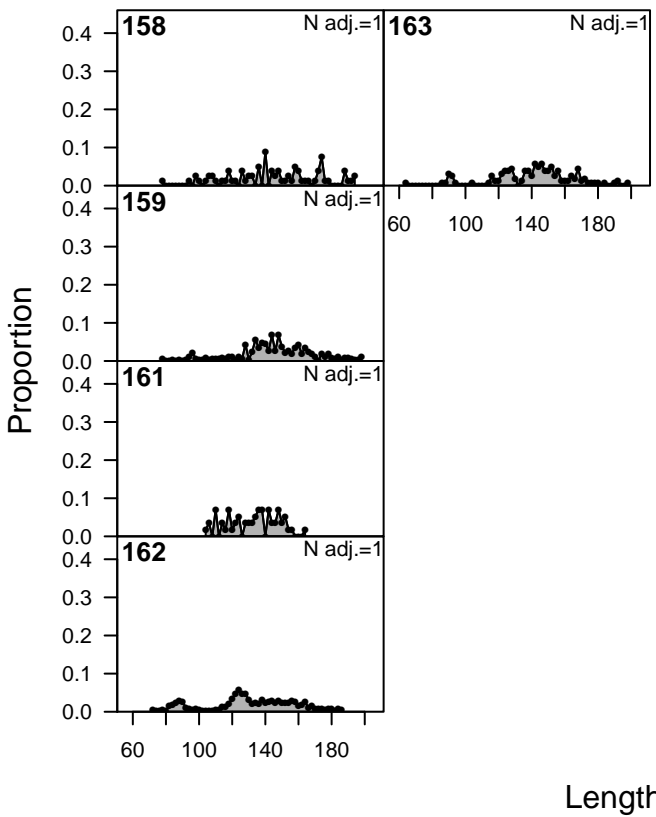


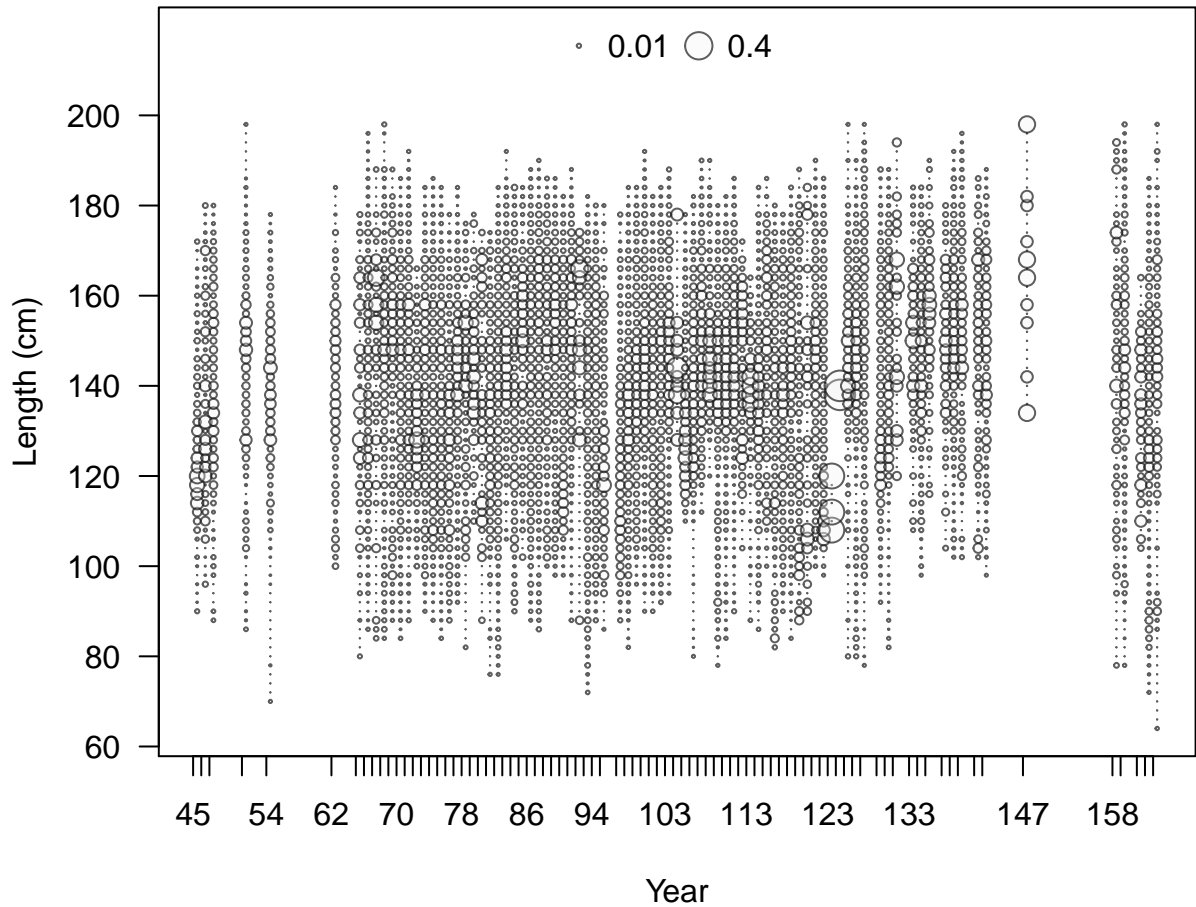
Proportion



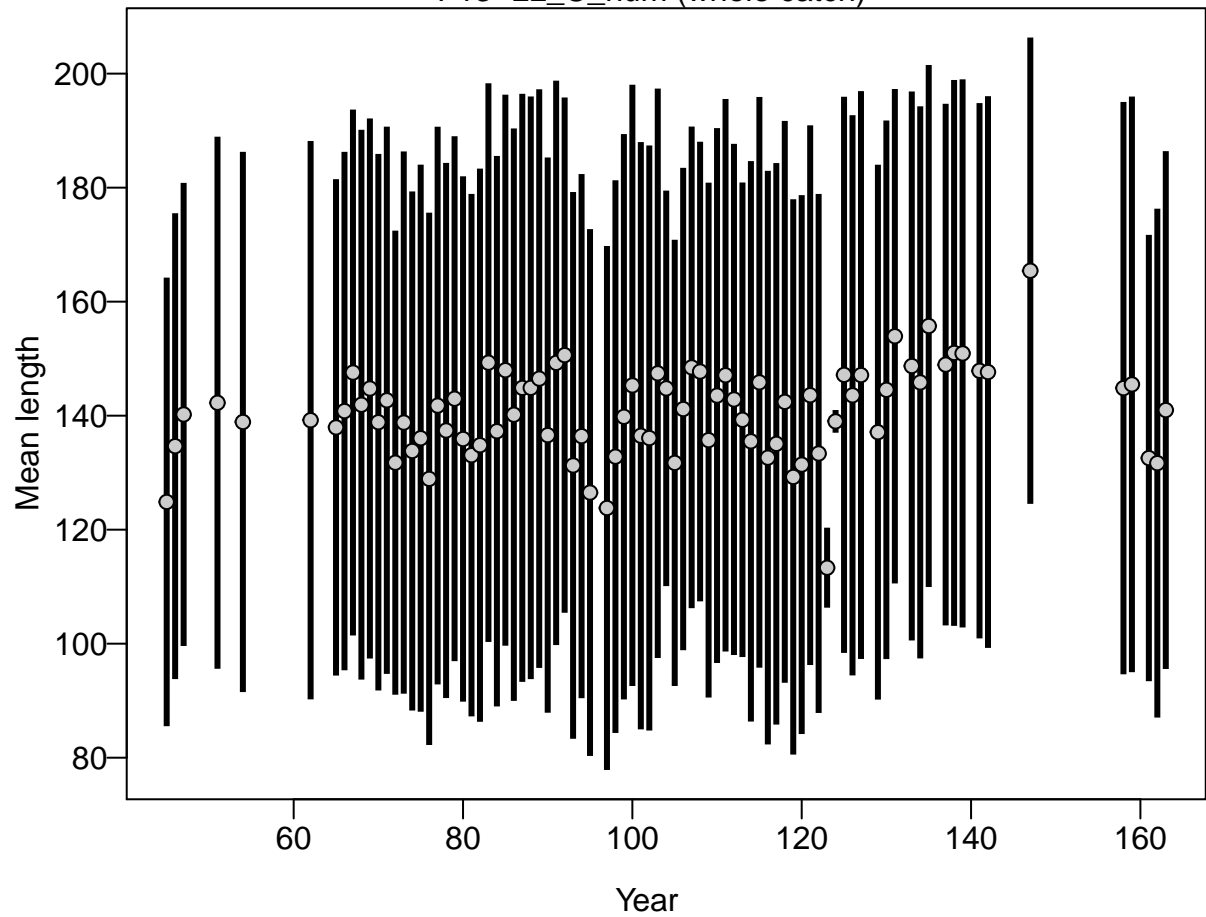
Proportion



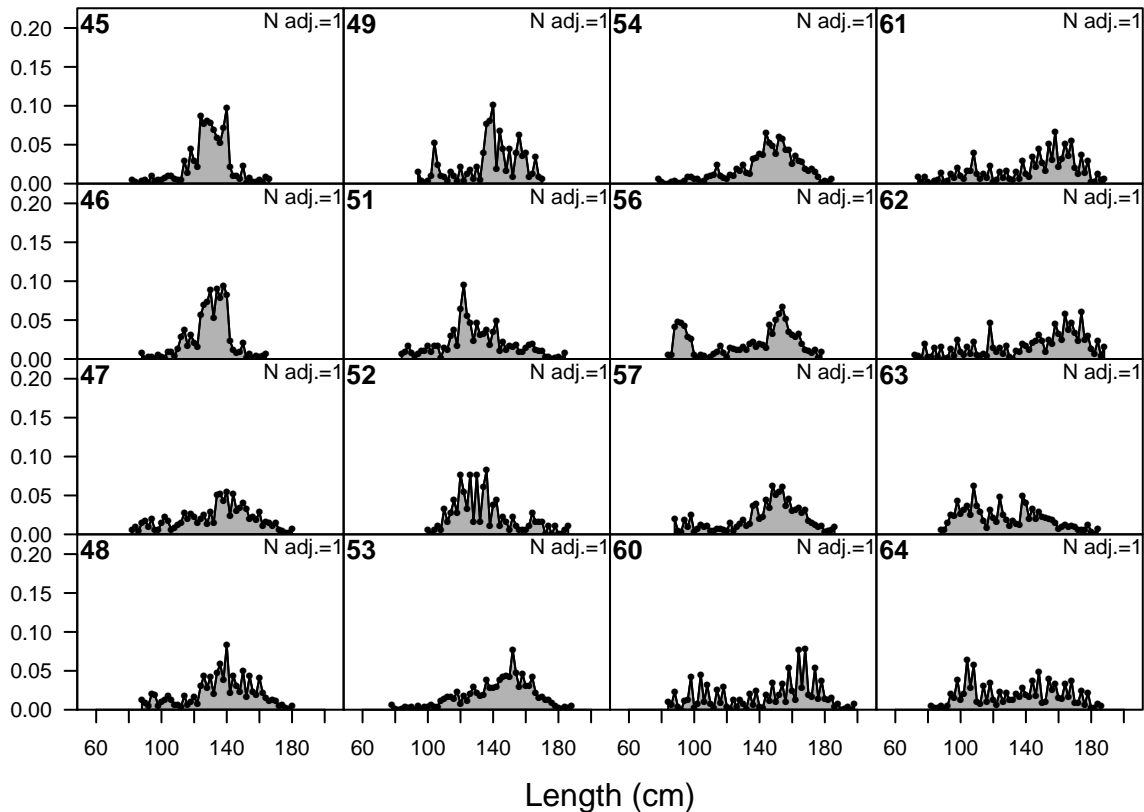




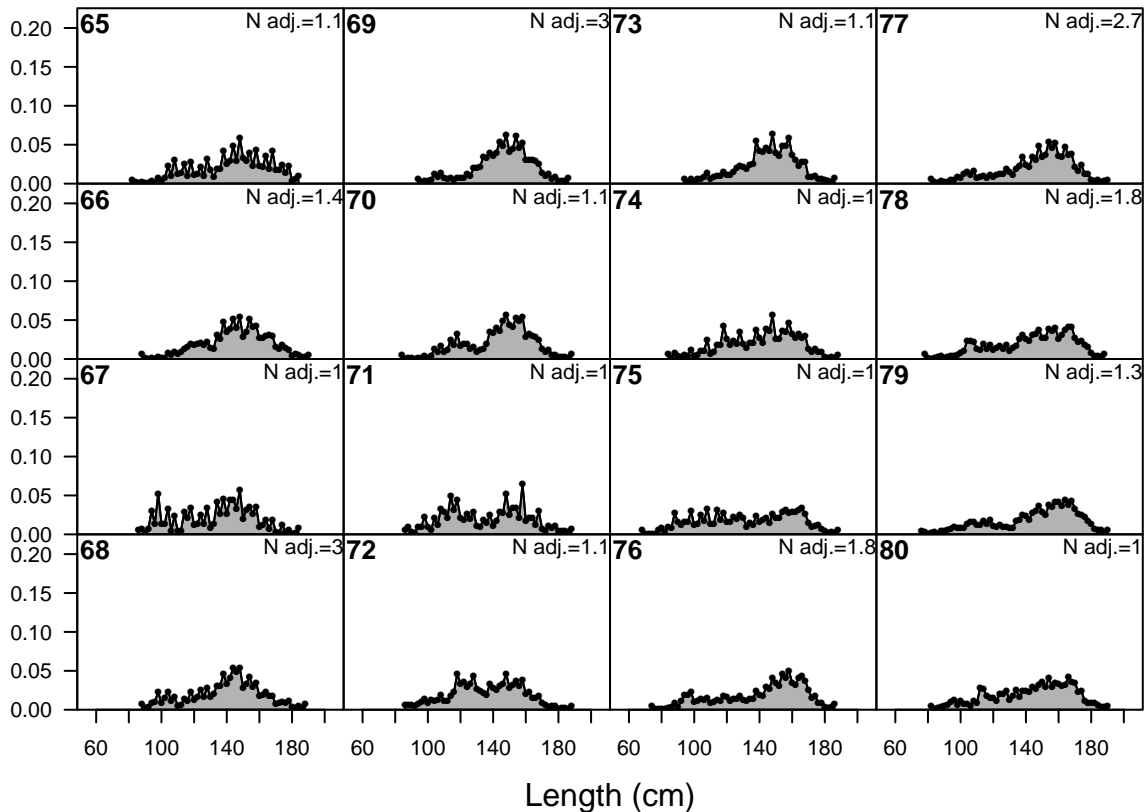
F13-LL_C_num (whole catch)



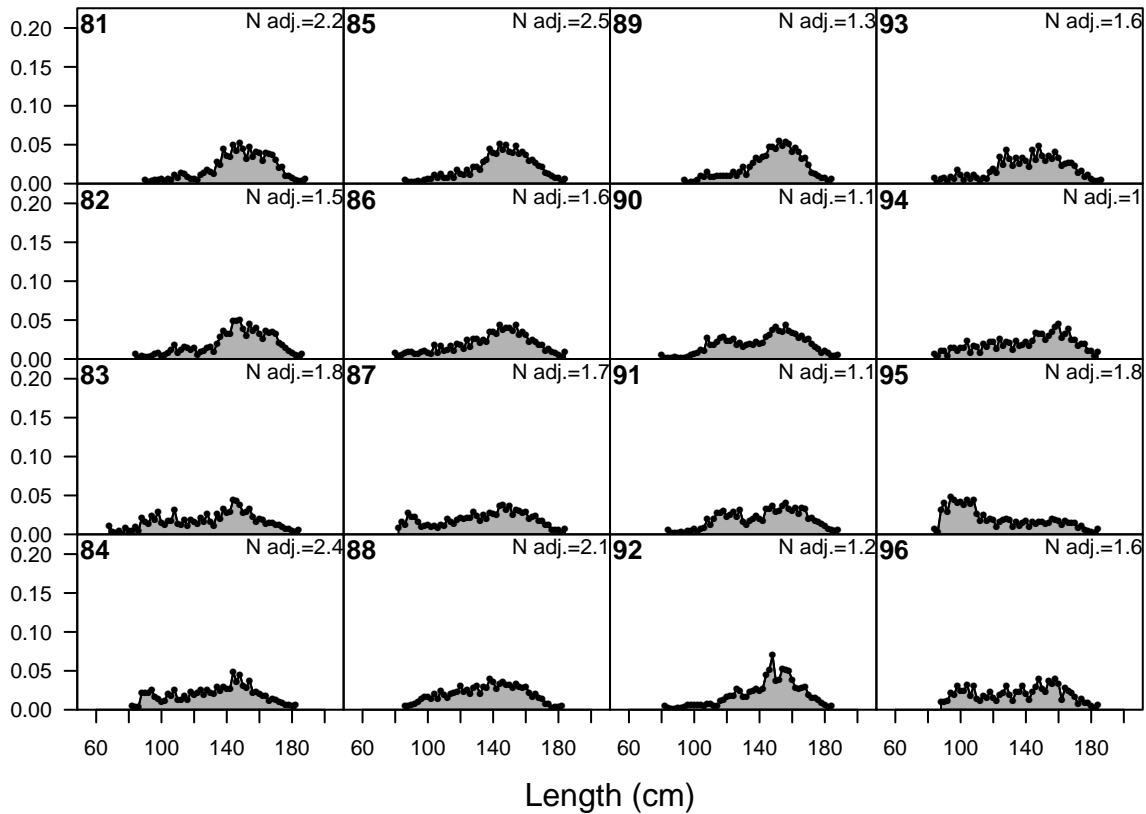
Proportion



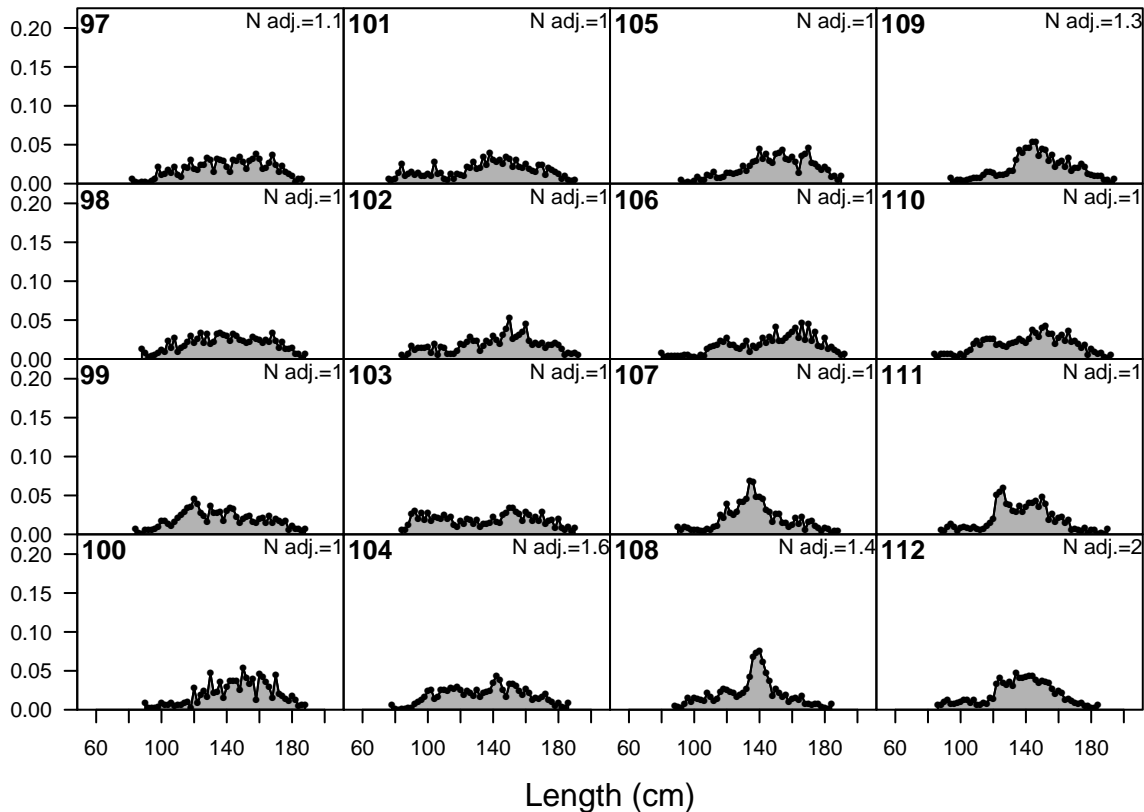
Proportion



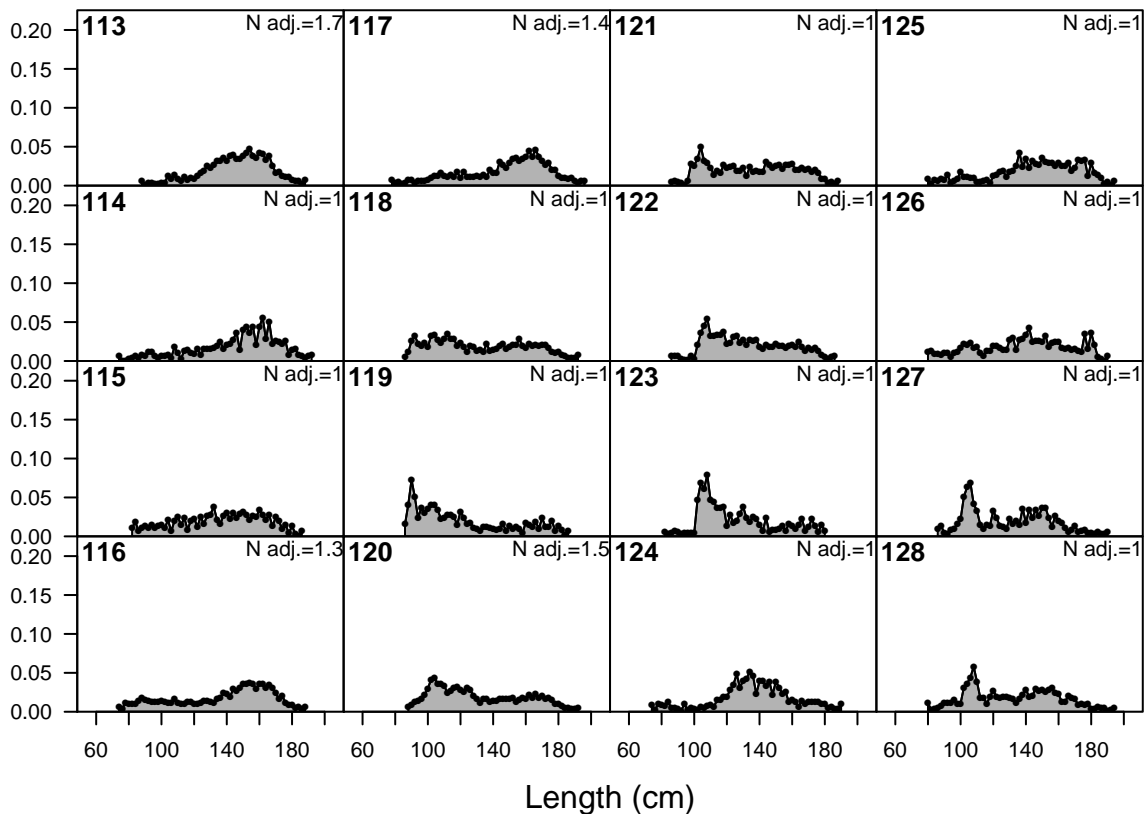
Proportion



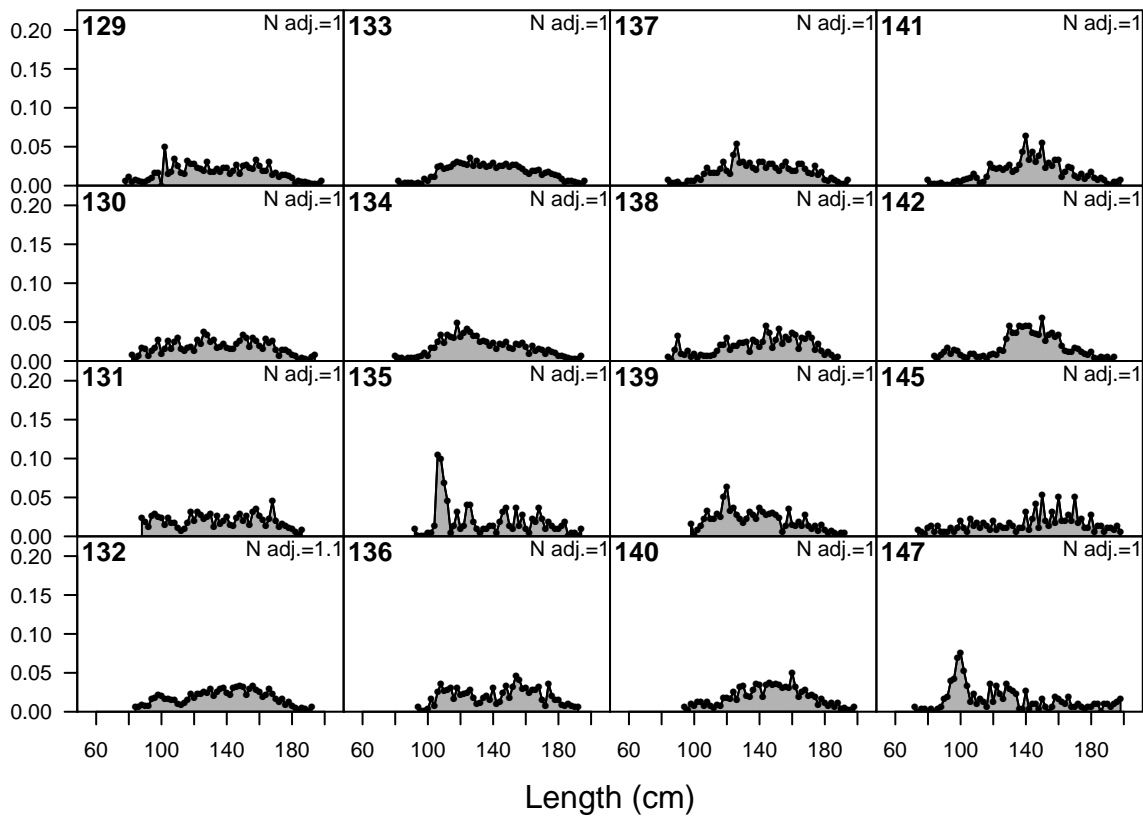
Proportion



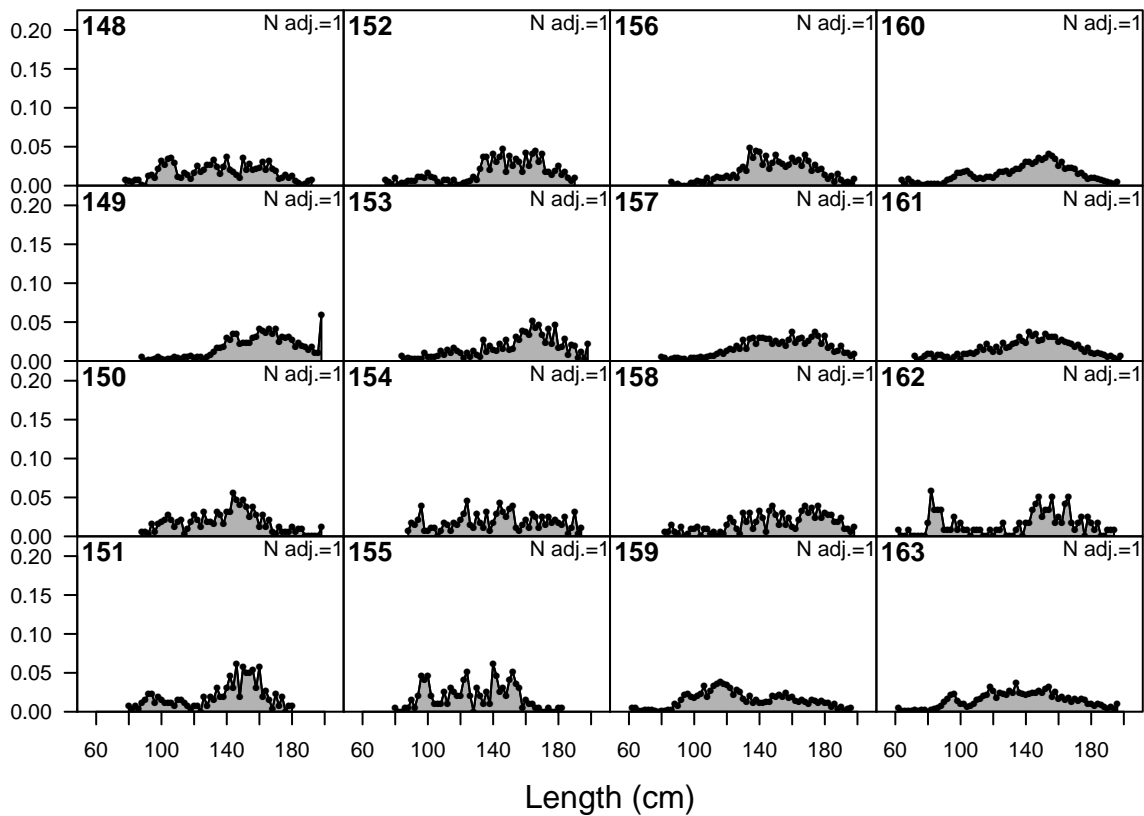
Proportion

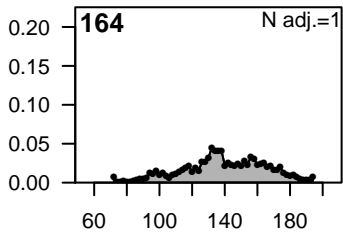


Proportion



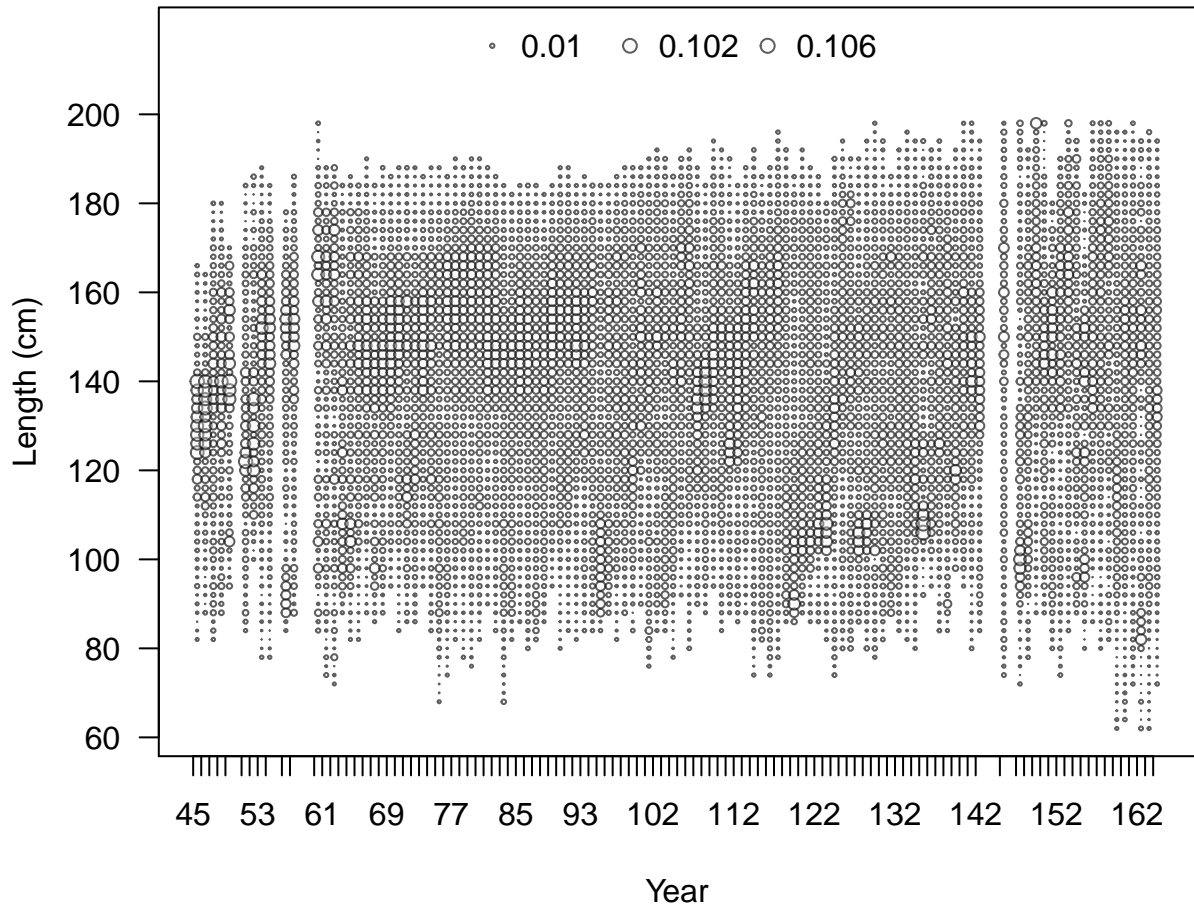
Proportion



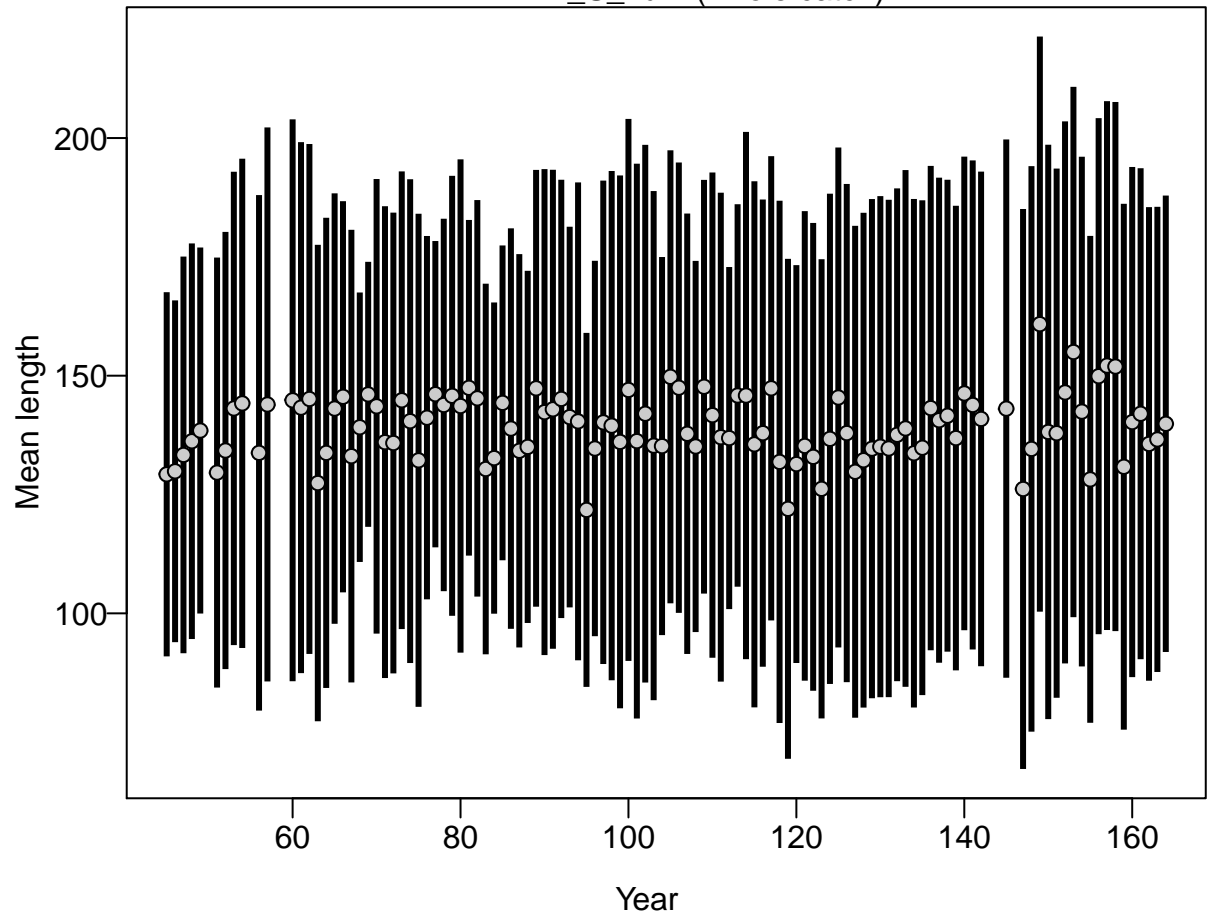


Proportion

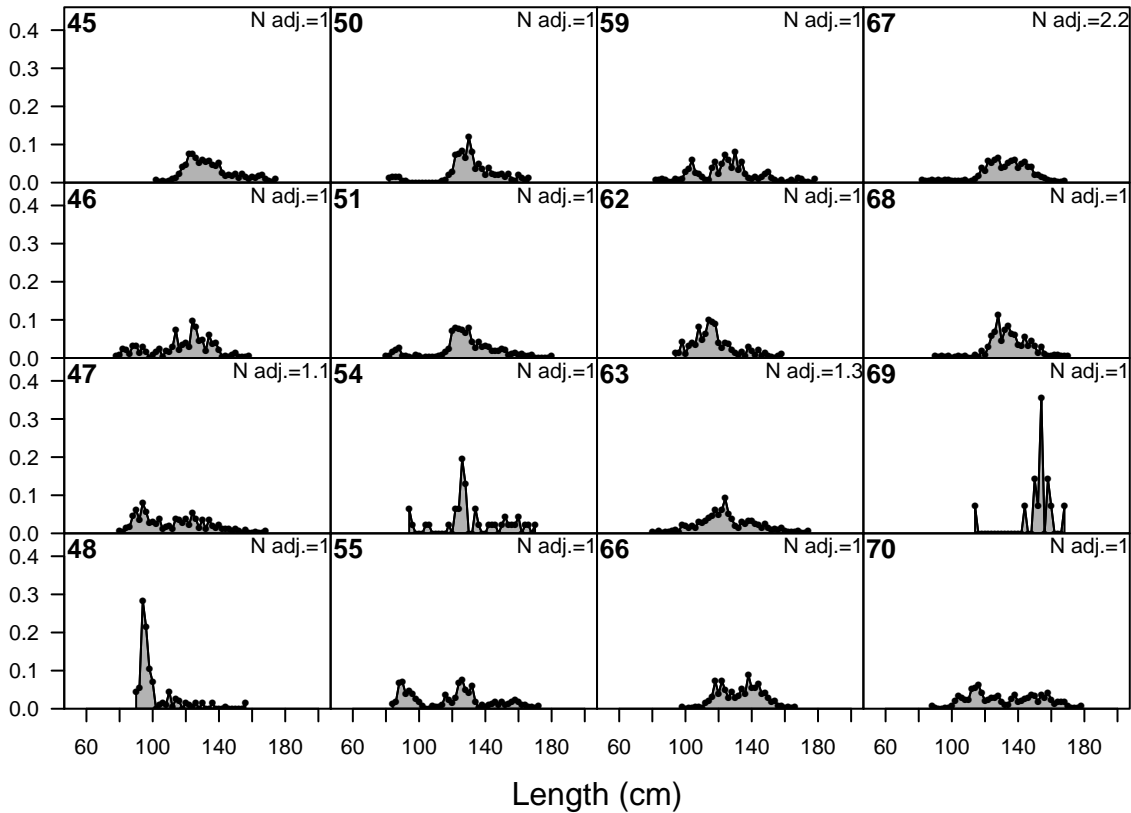
Length (cm)



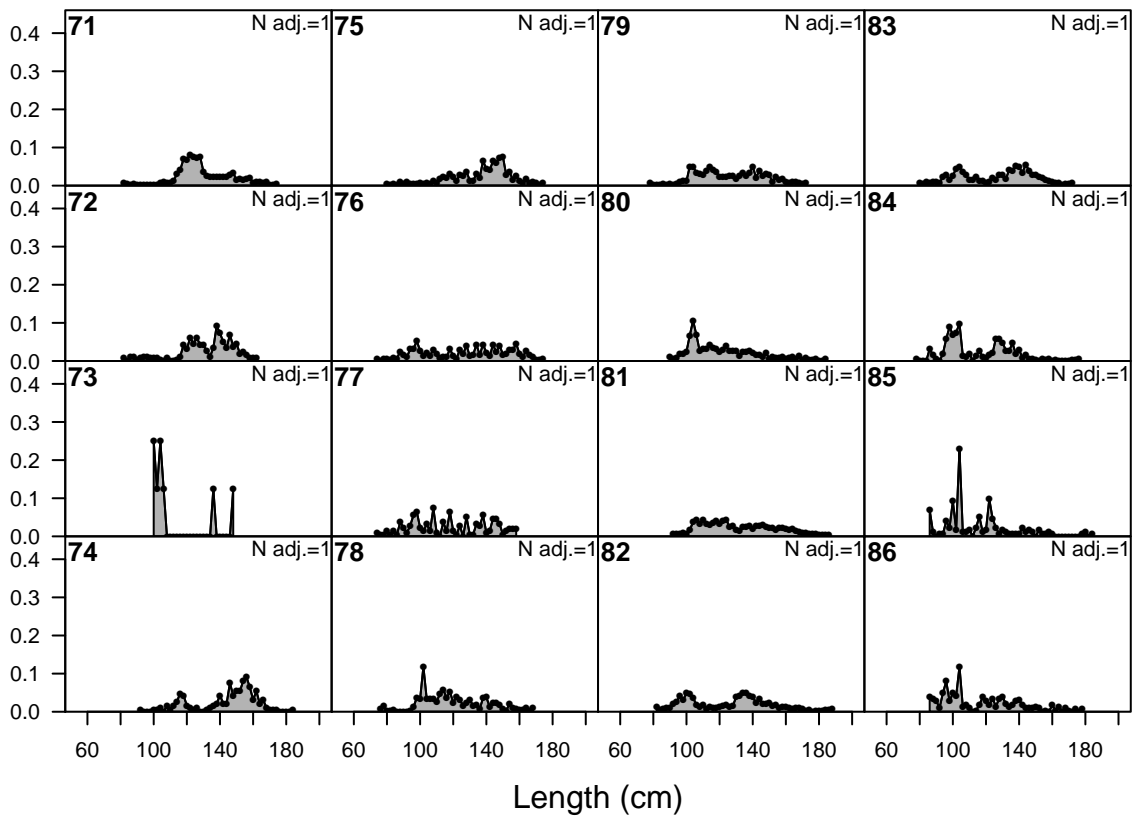
F14-LL_S_num (whole catch)



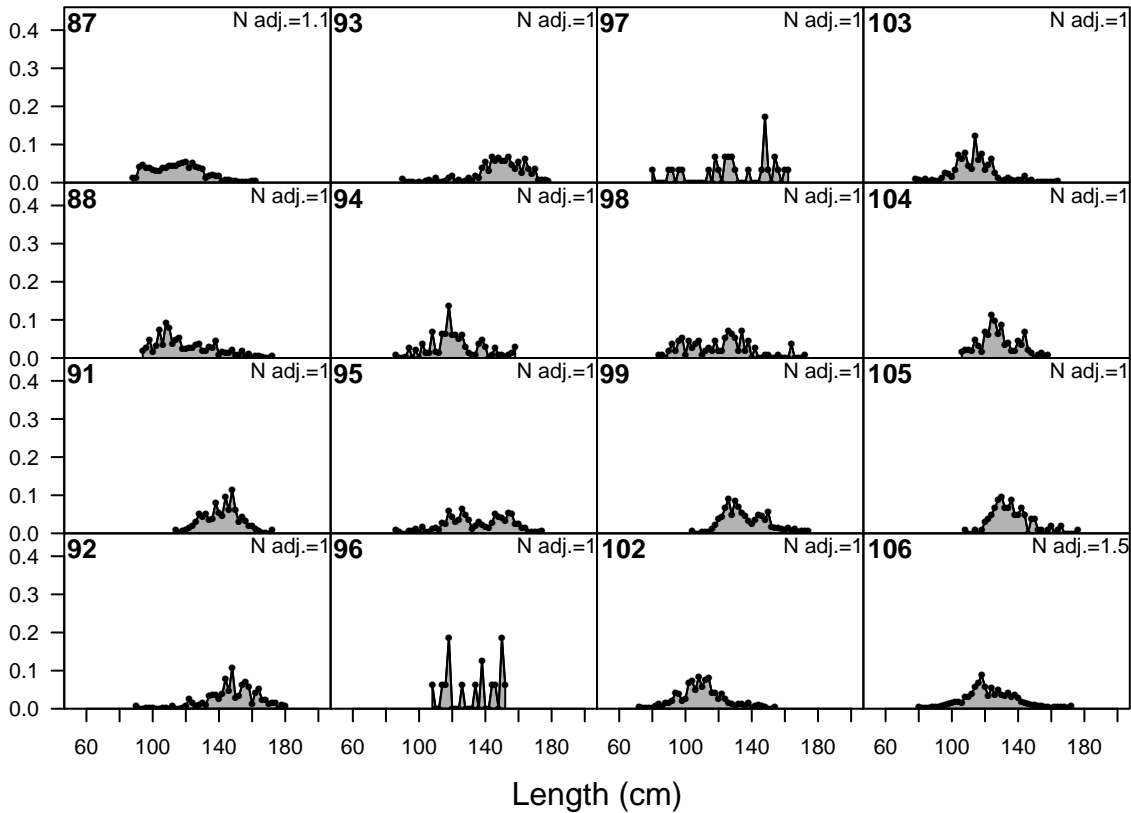
Proportion



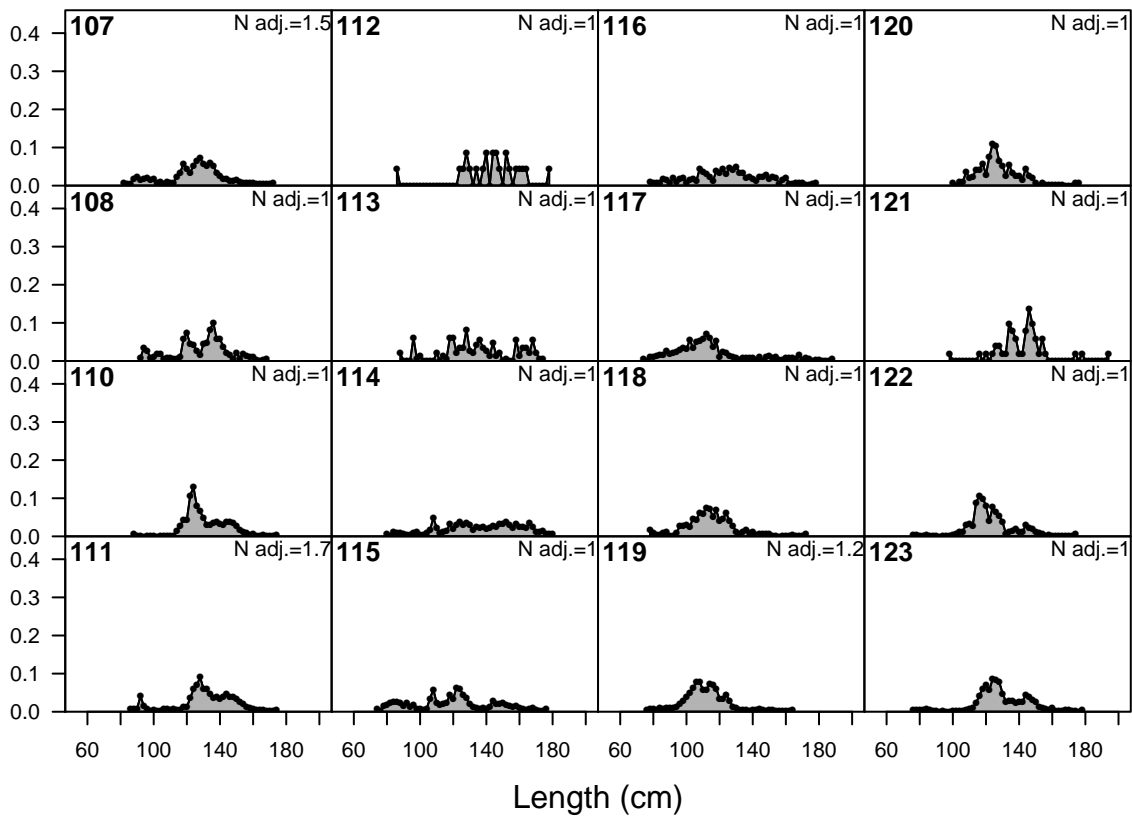
Proportion



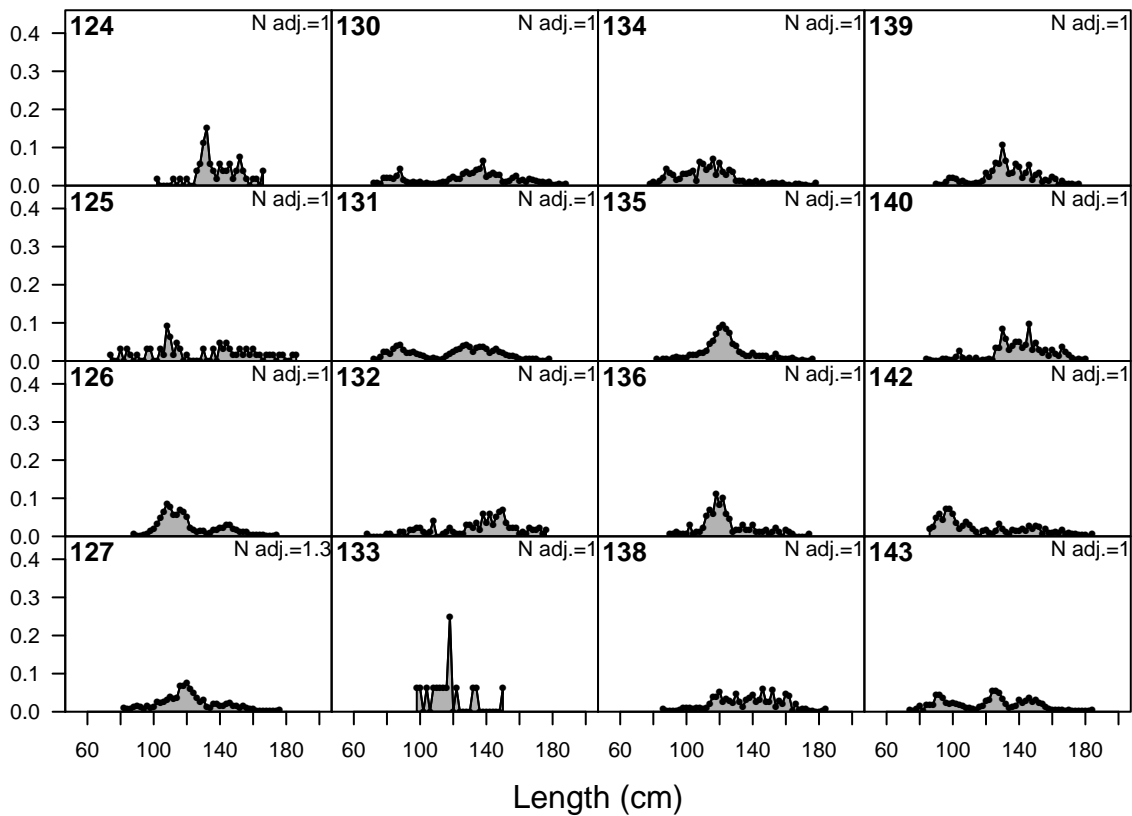
Proportion

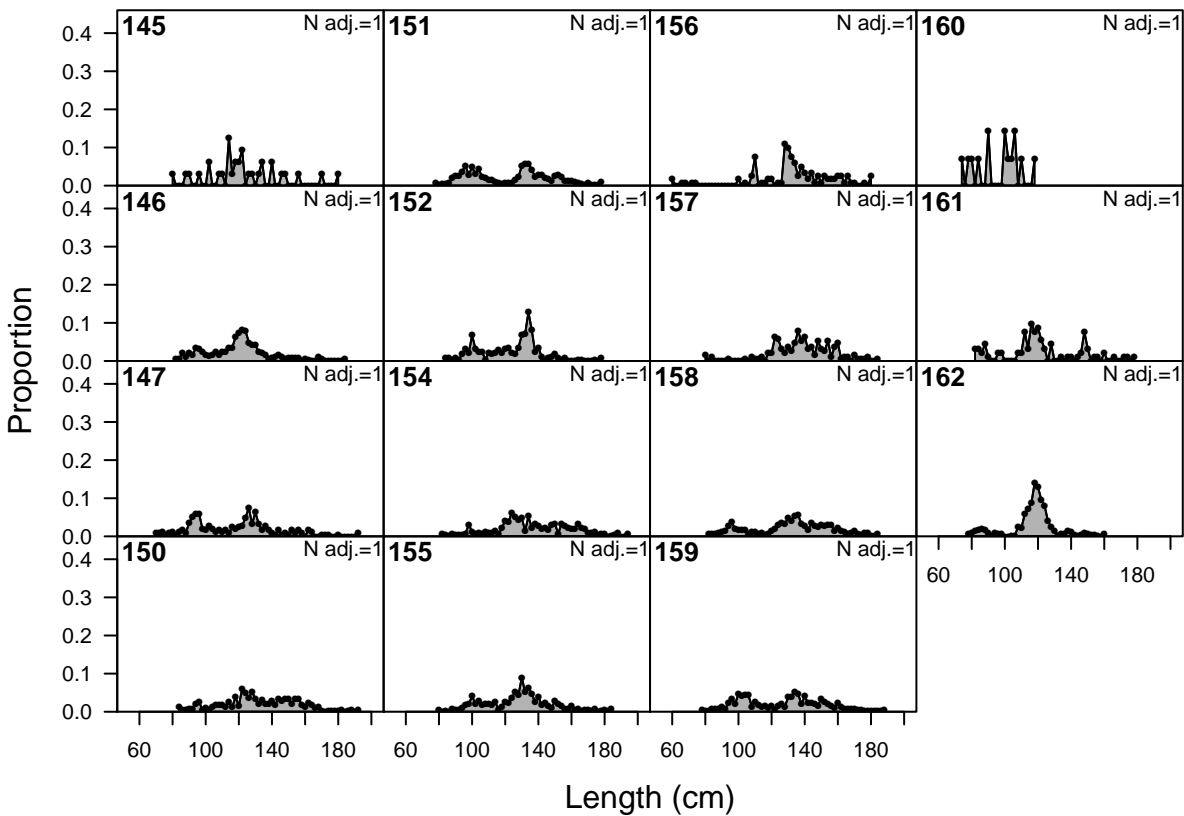


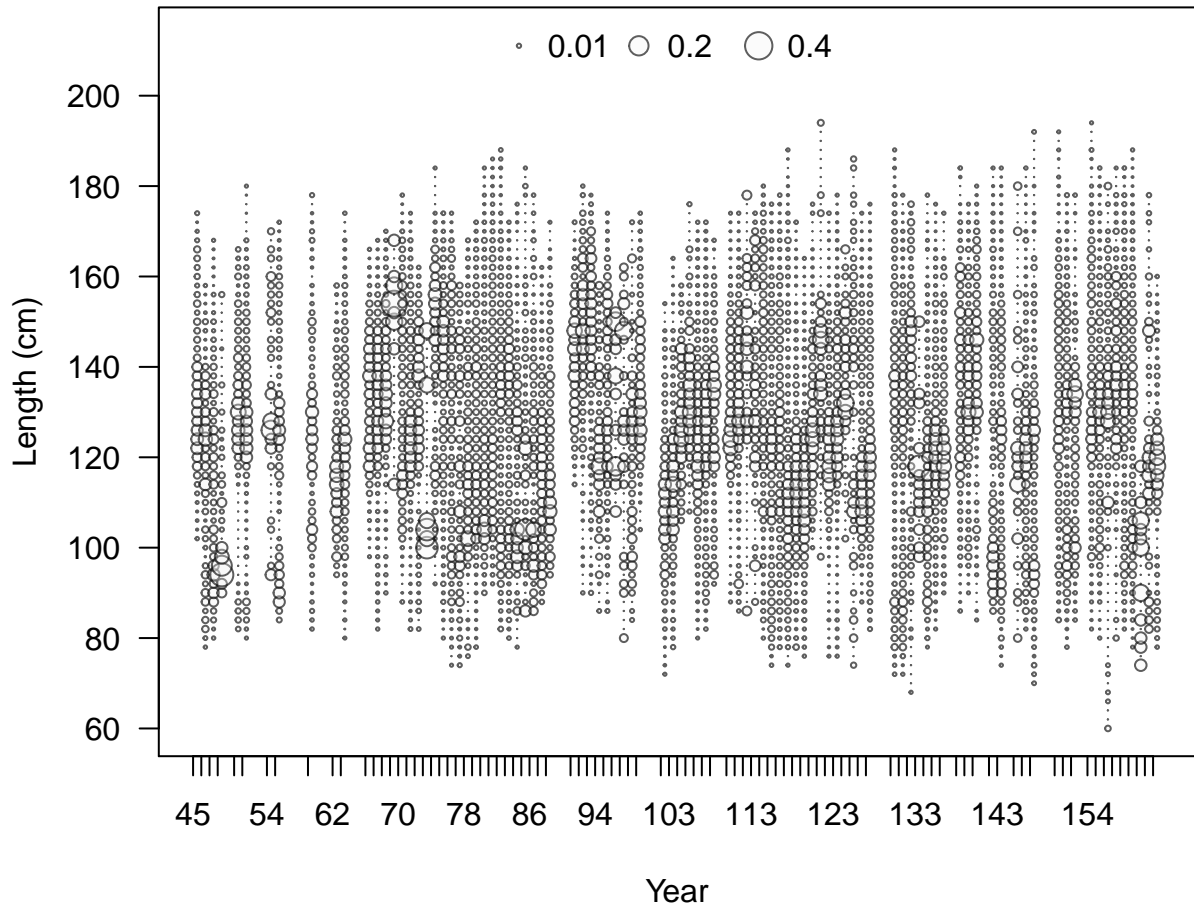
Proportion



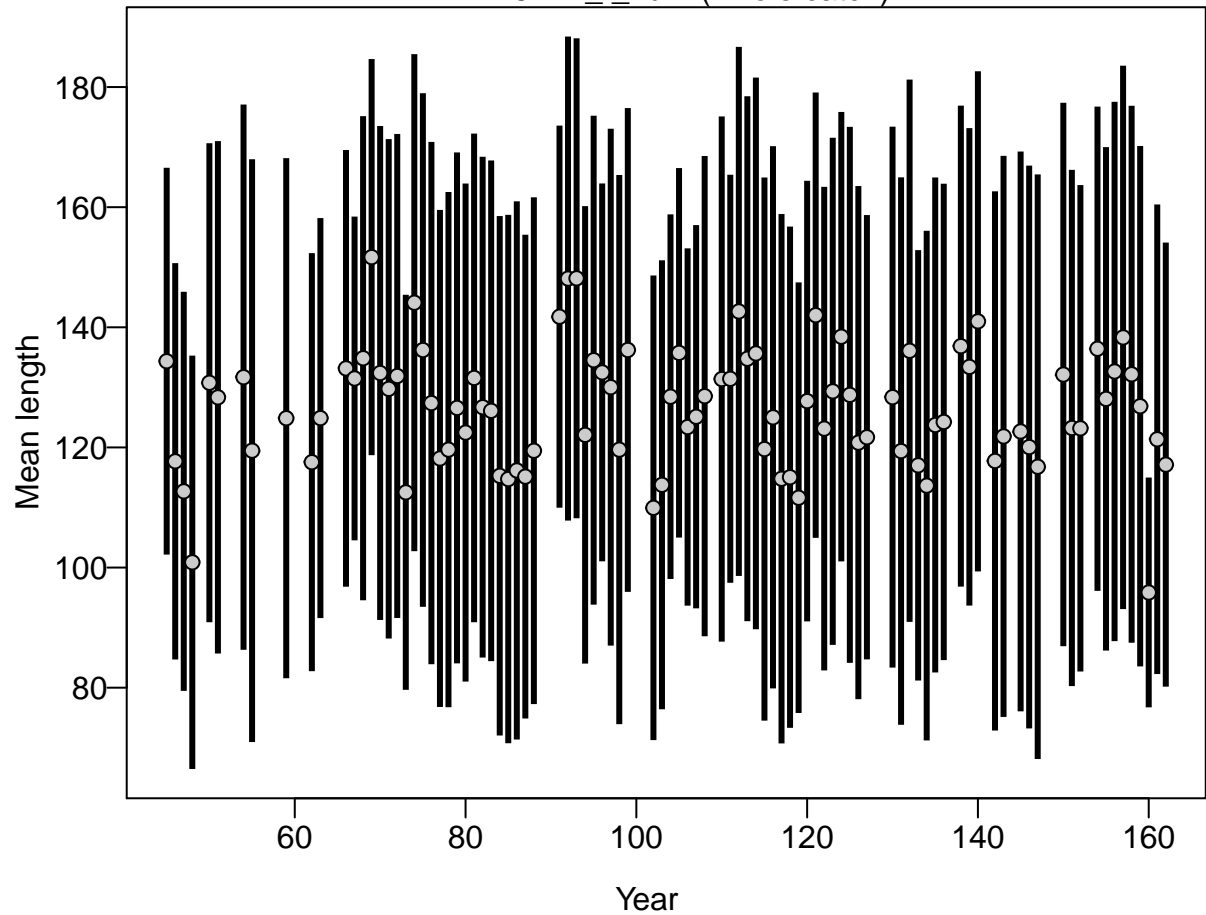
Proportion



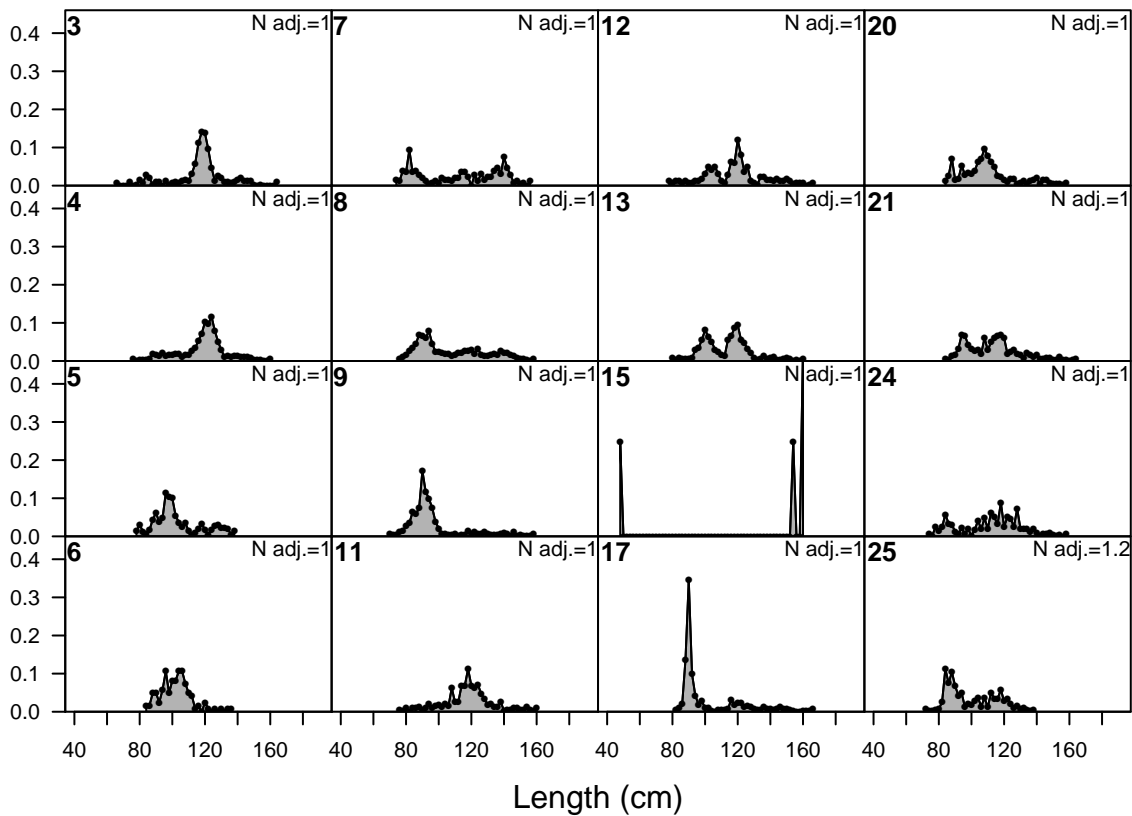




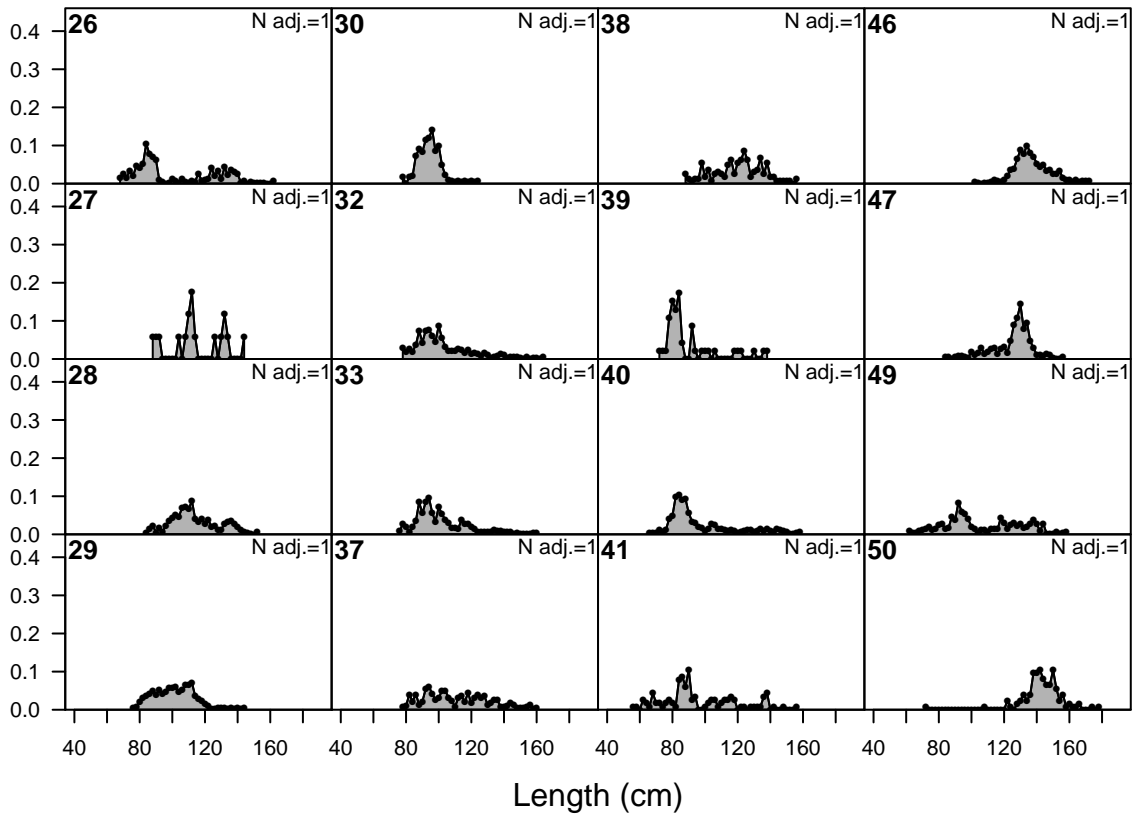
F15-LL_I_num (whole catch)

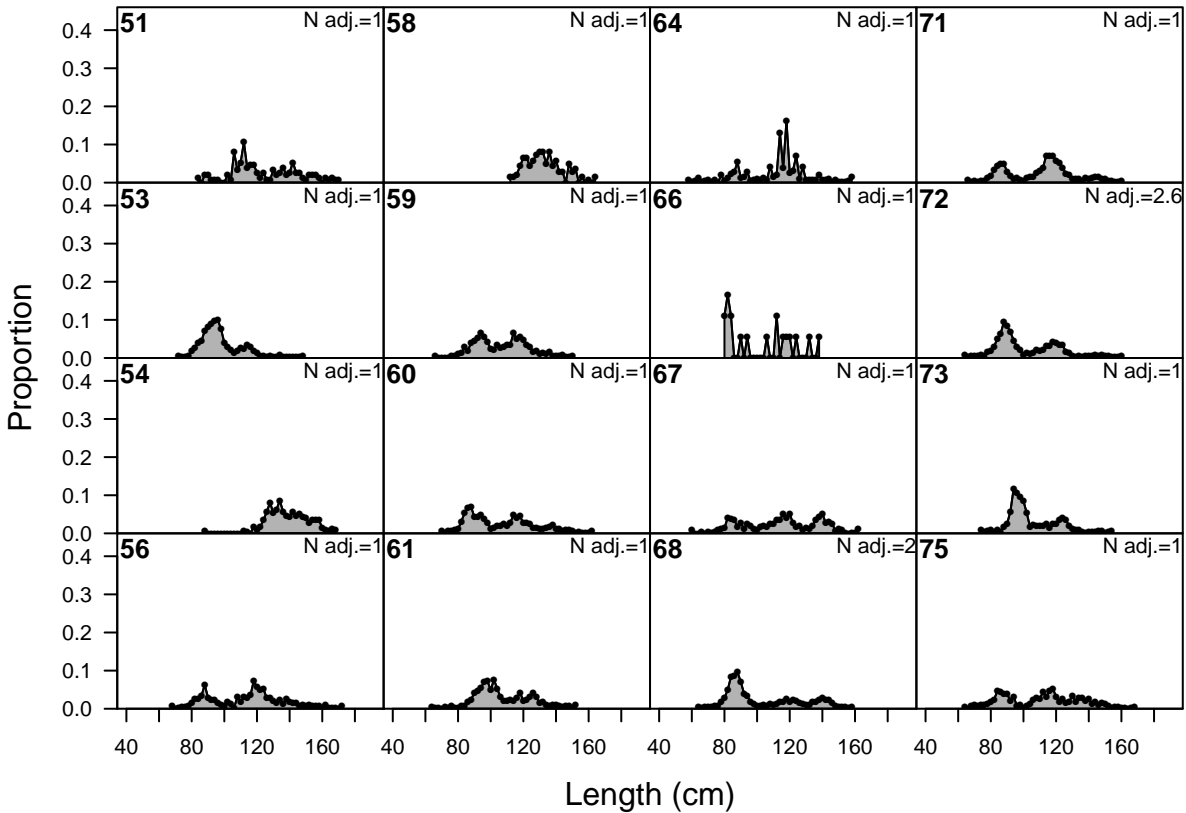


Proportion

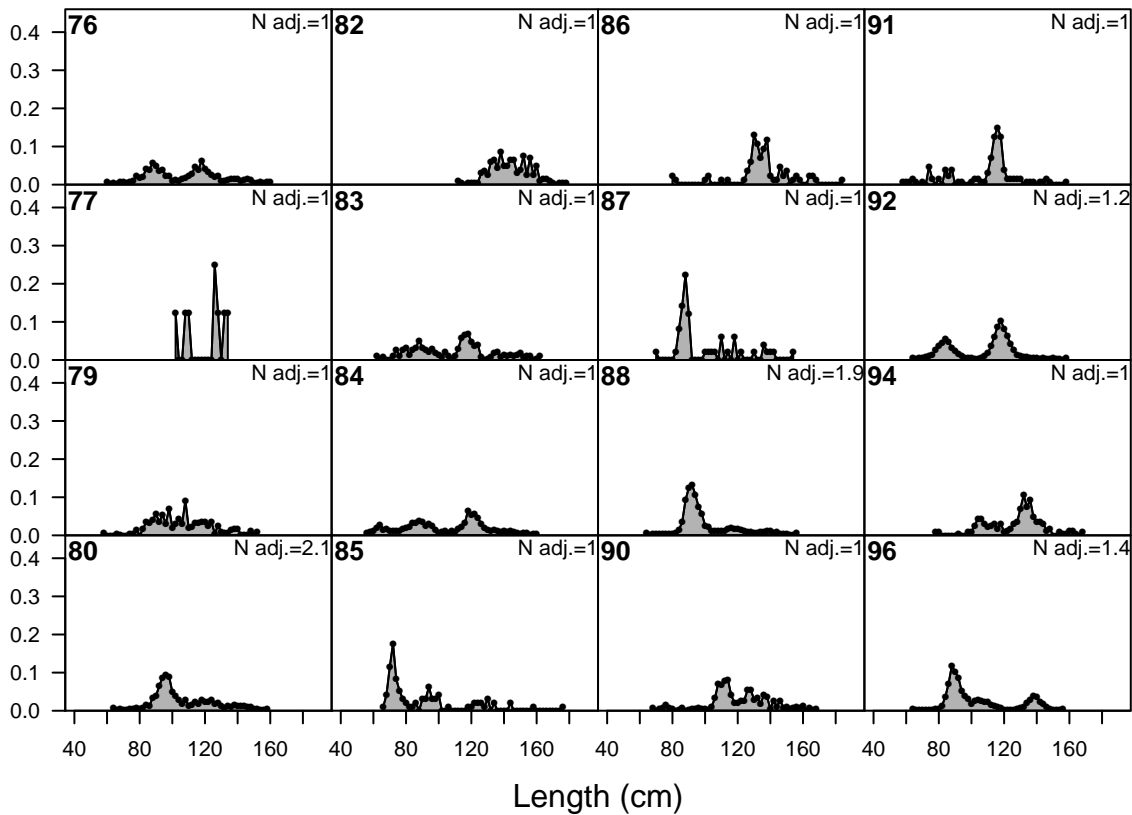


Proportion

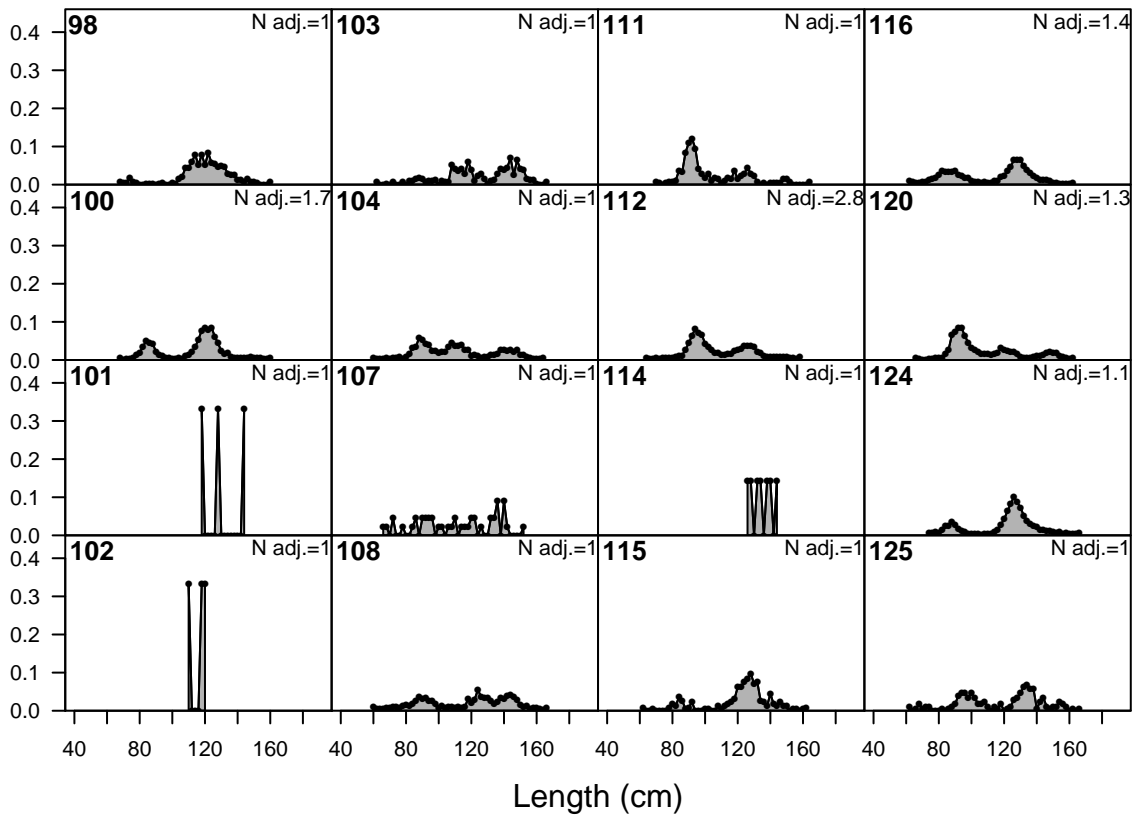


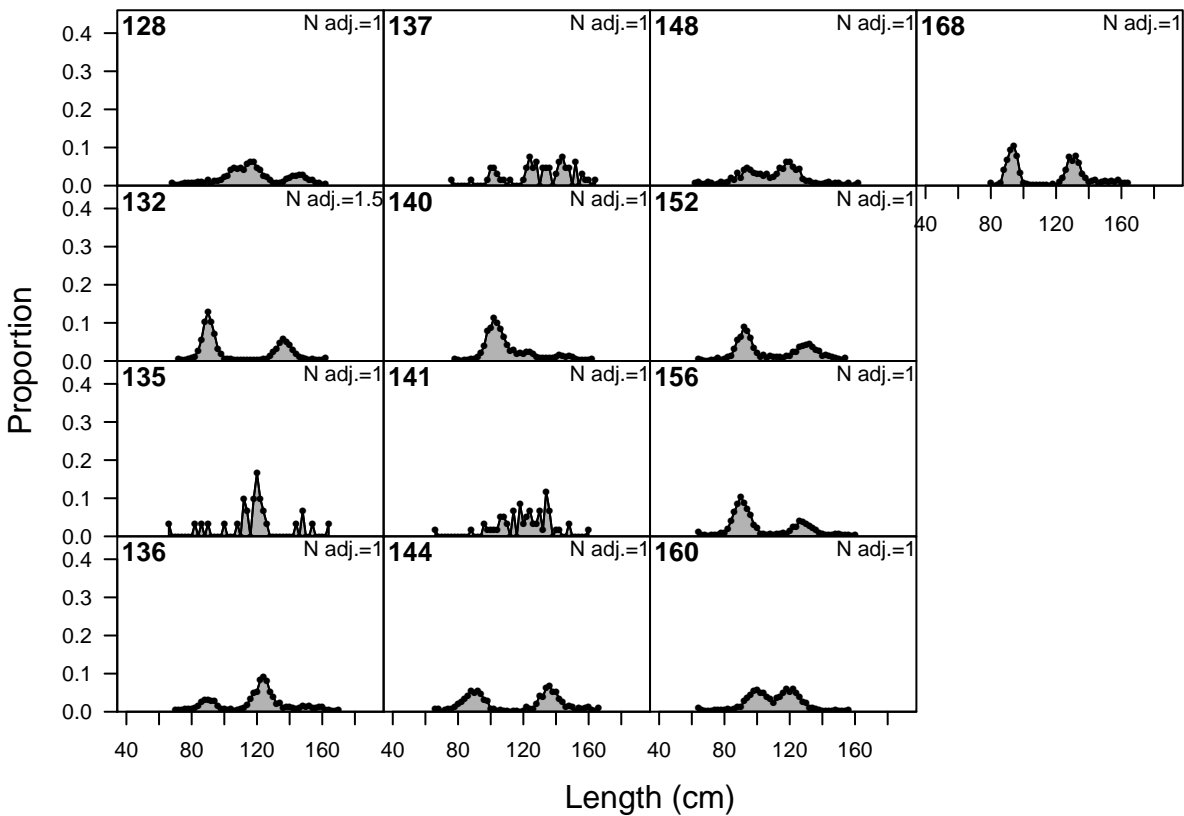


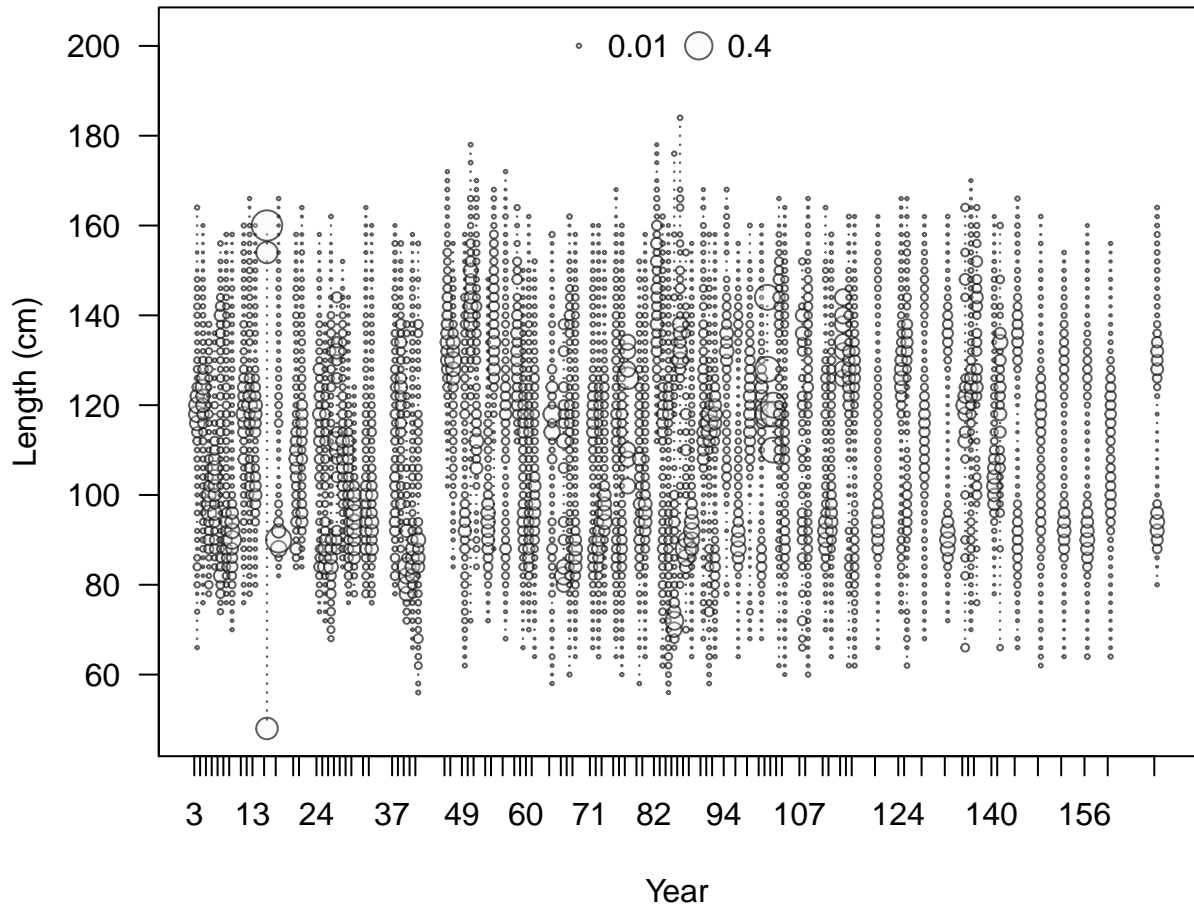
Proportion



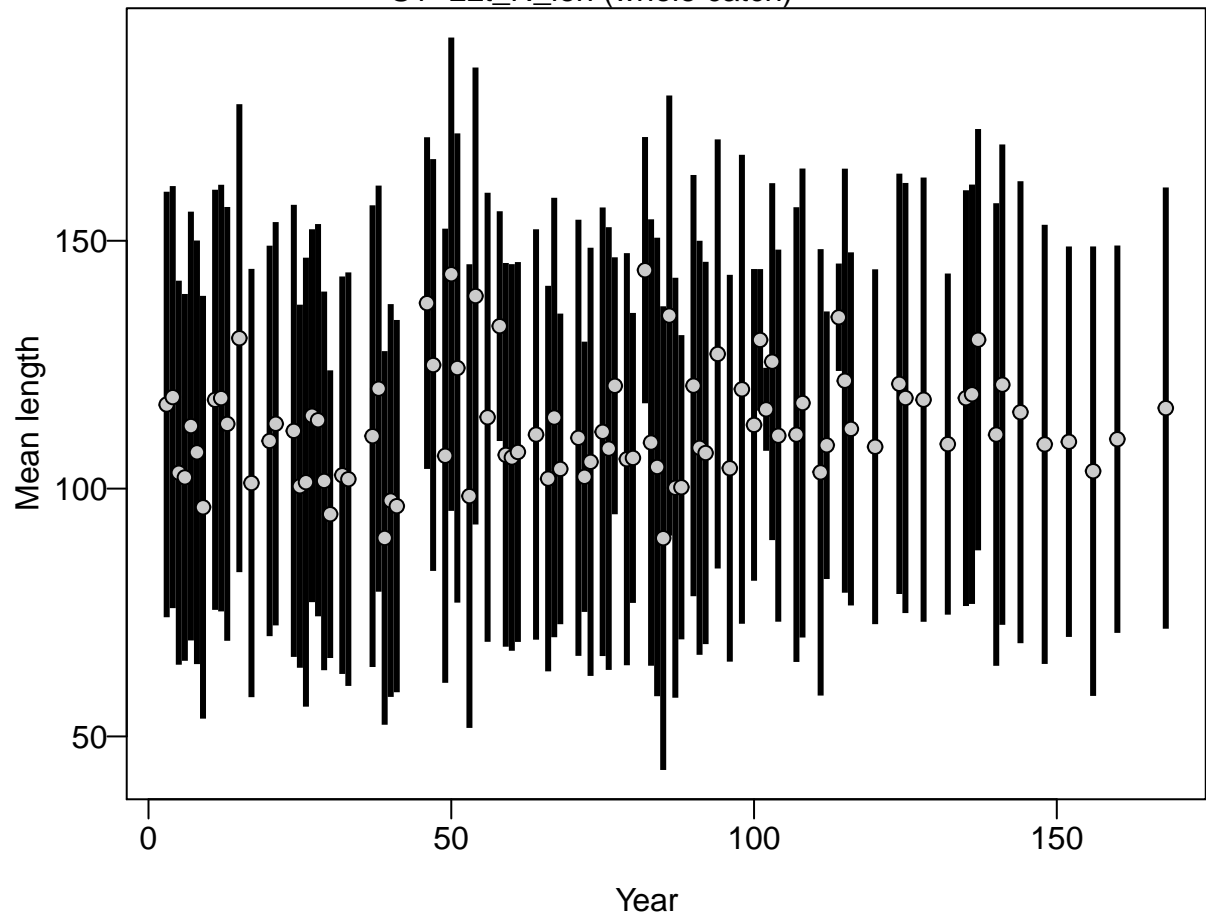
Proportion



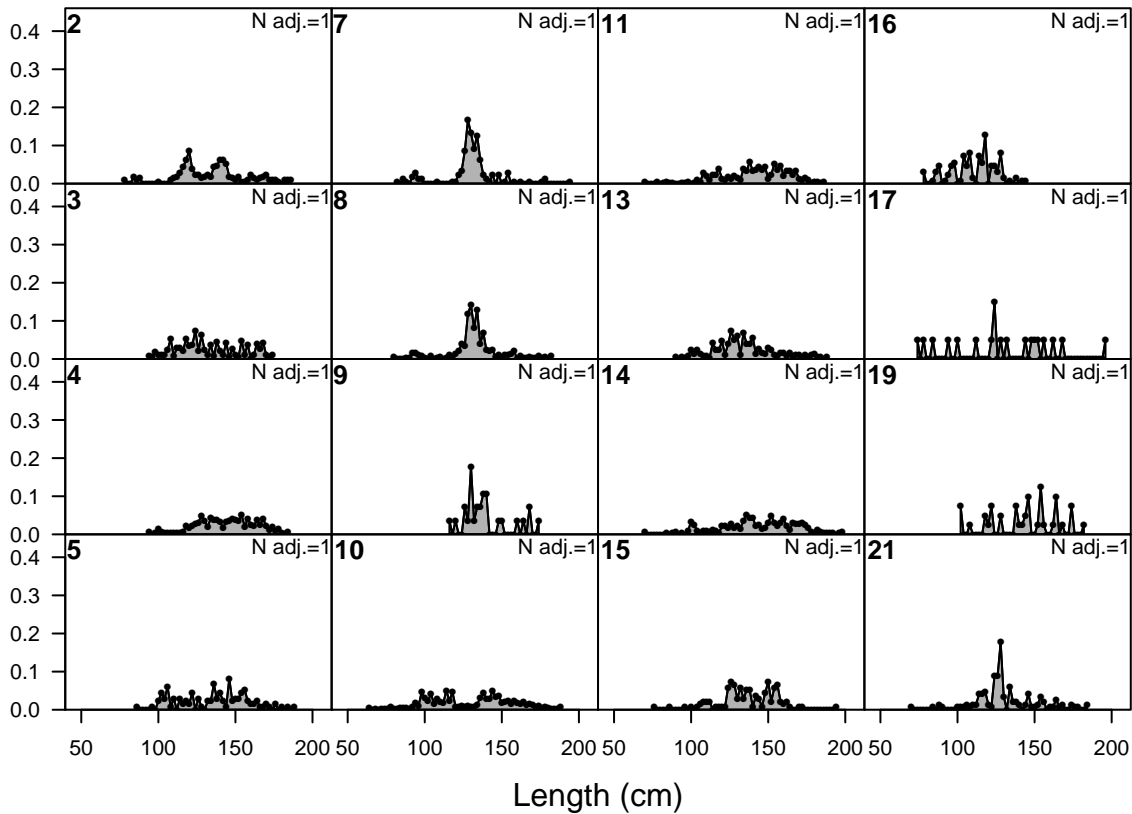




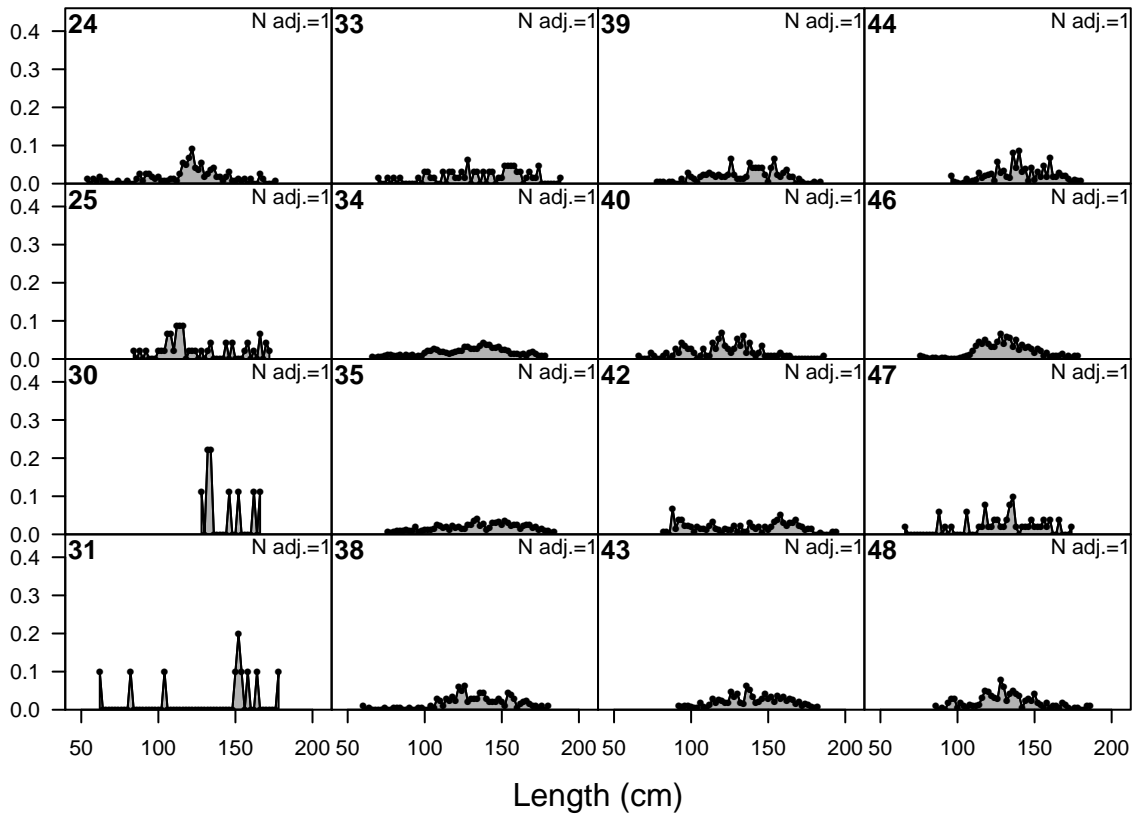
S1-LLt_N_len (whole catch)



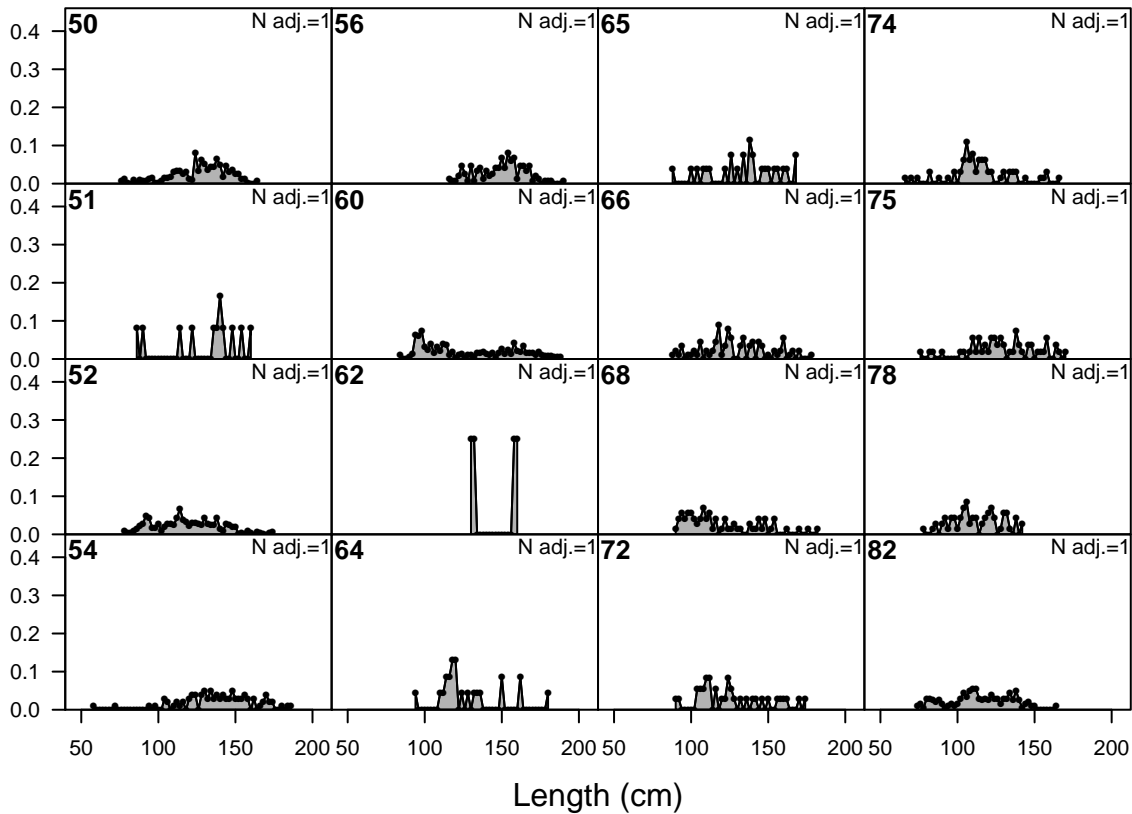
Proportion

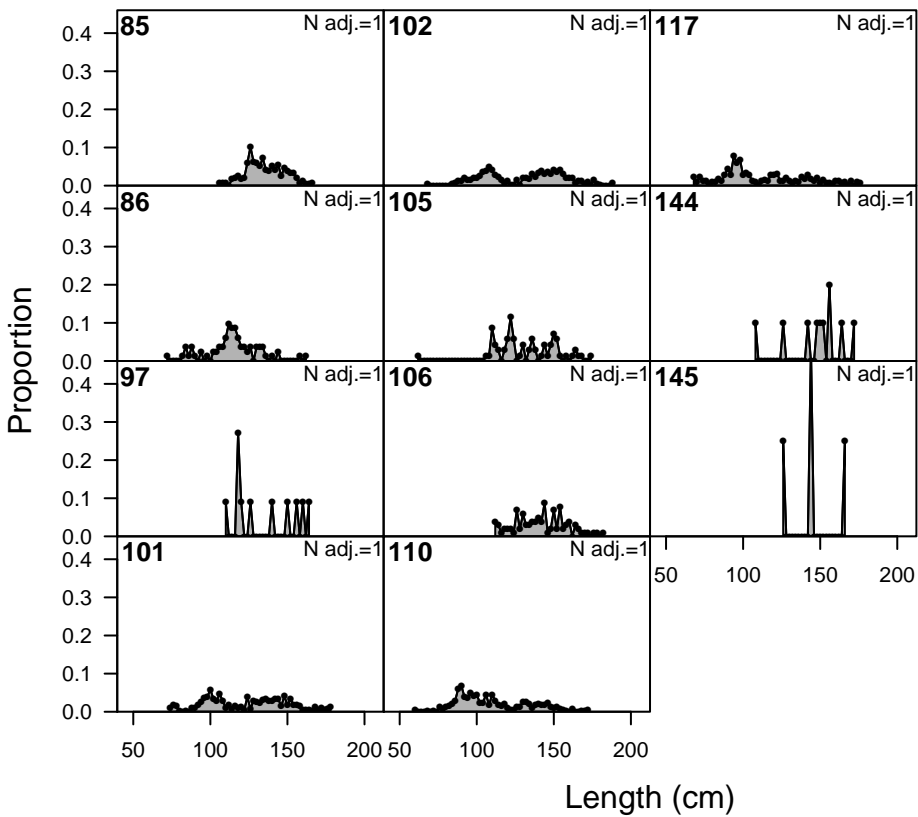


Proportion



Proportion





Length (cm)

200
150
100
50

2

9

17

30

40

50

60

72

82

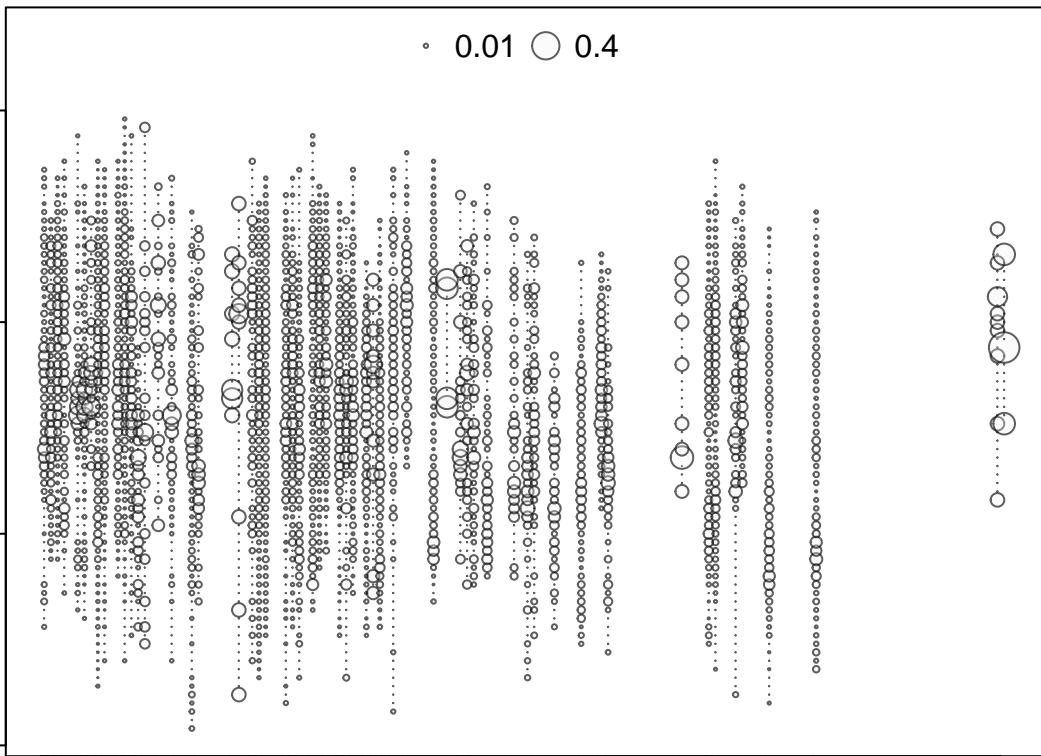
97

110

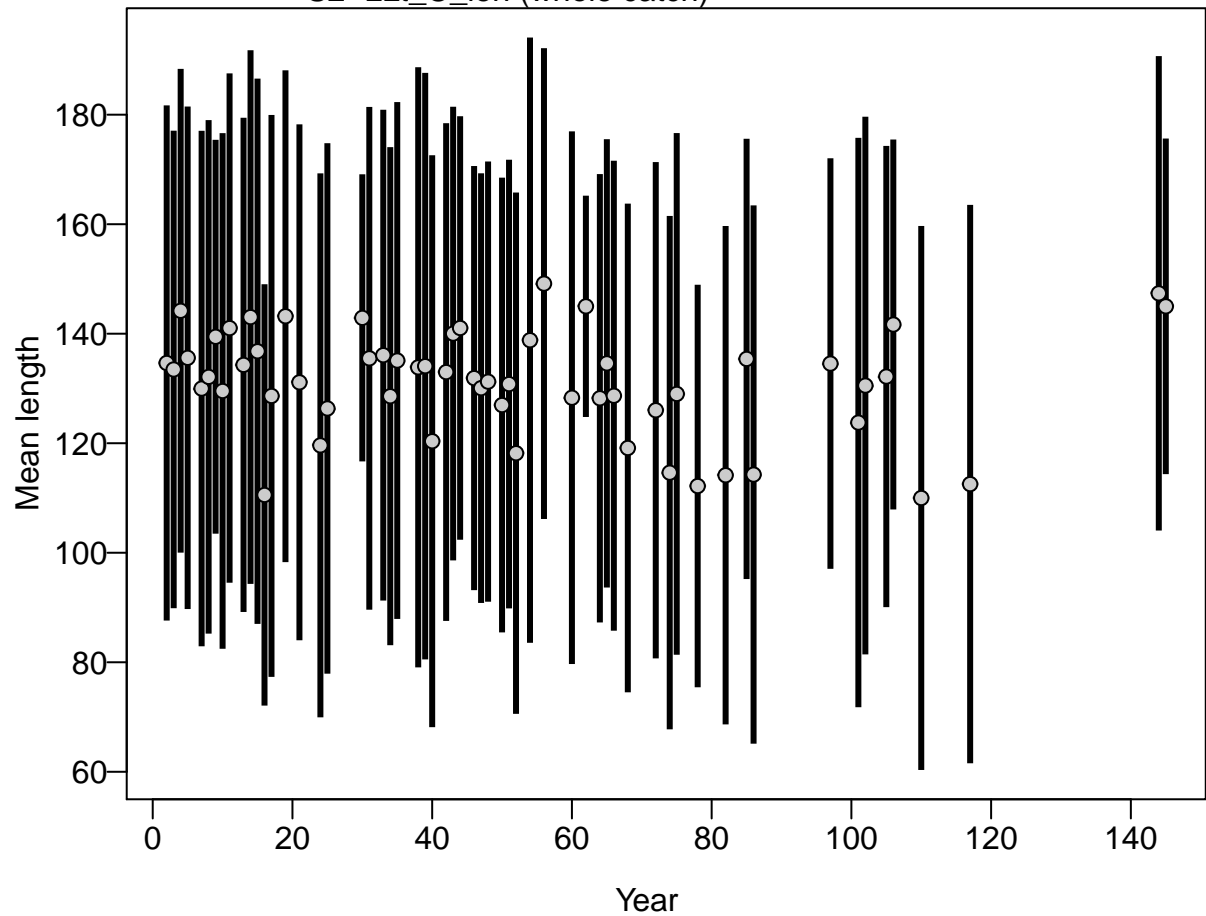
144

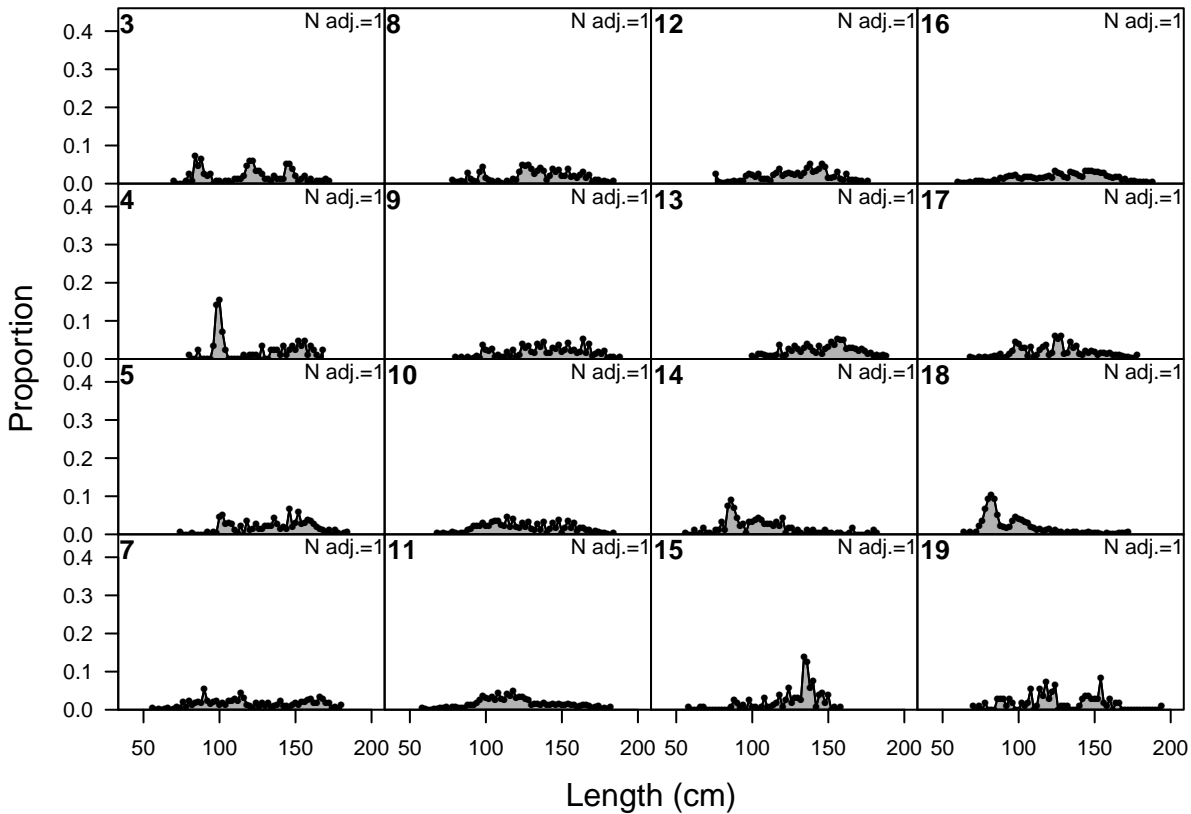
◦ 0.01 ○ 0.4

Year

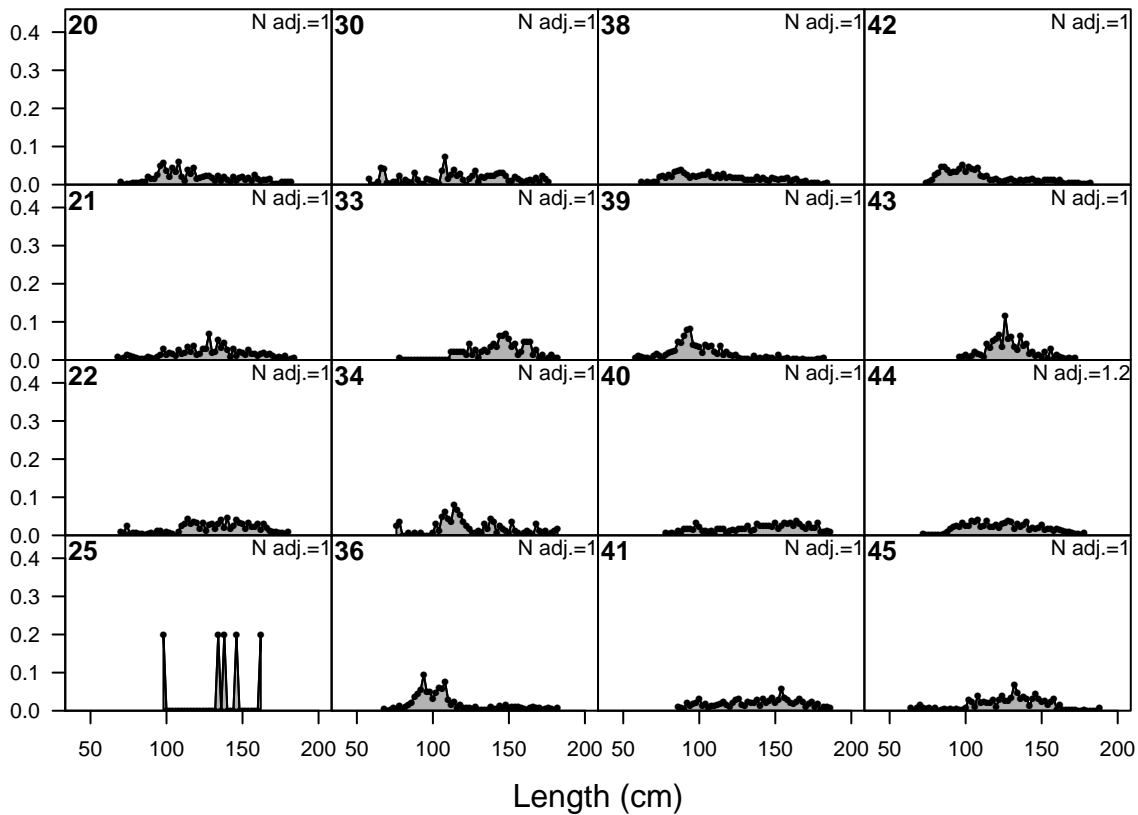


S2-LLt_C_len (whole catch)

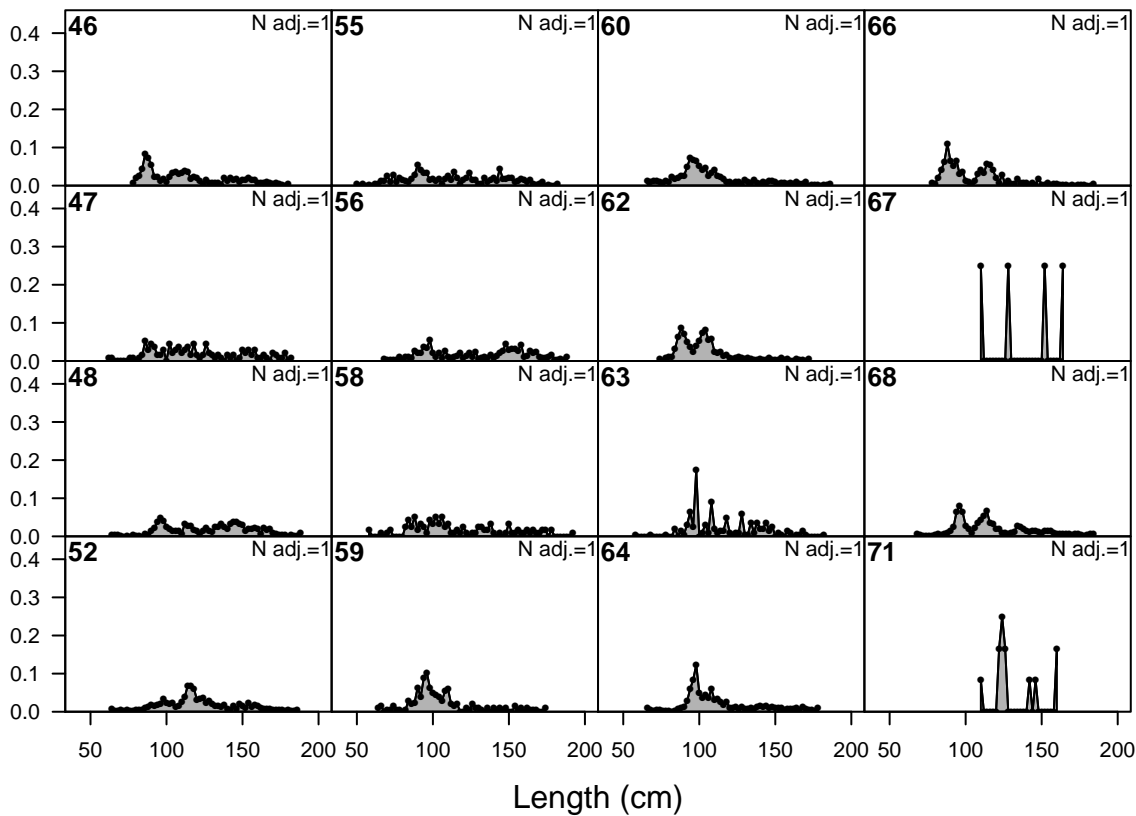




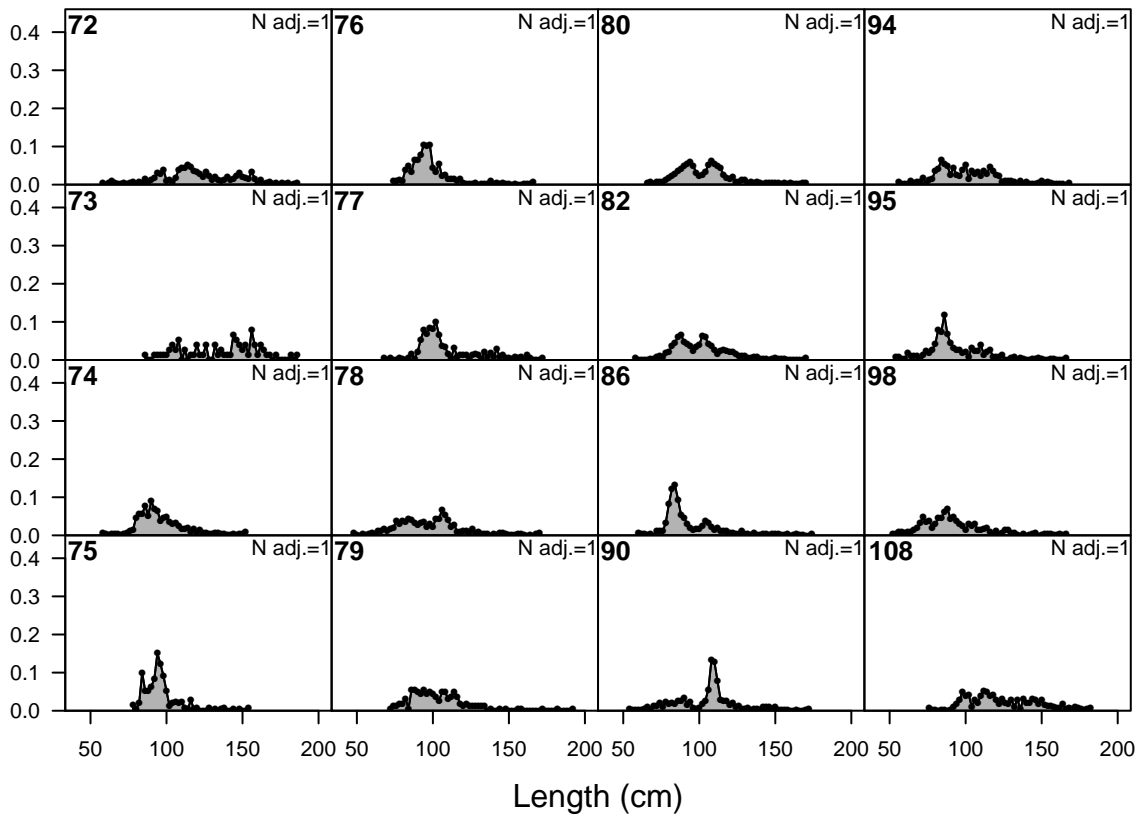
Proportion

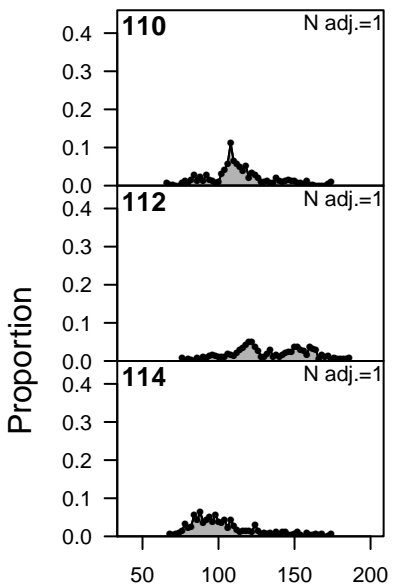


Proportion

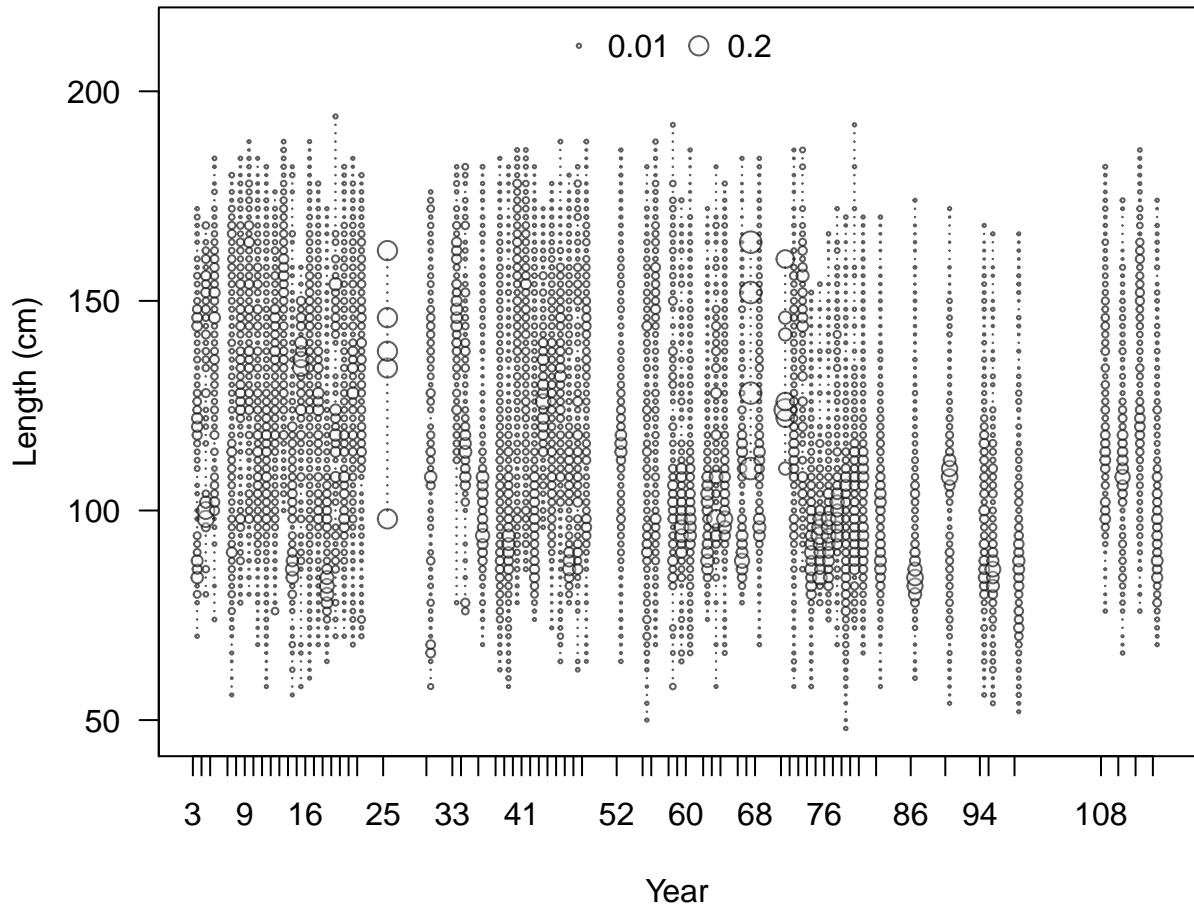


Proportion

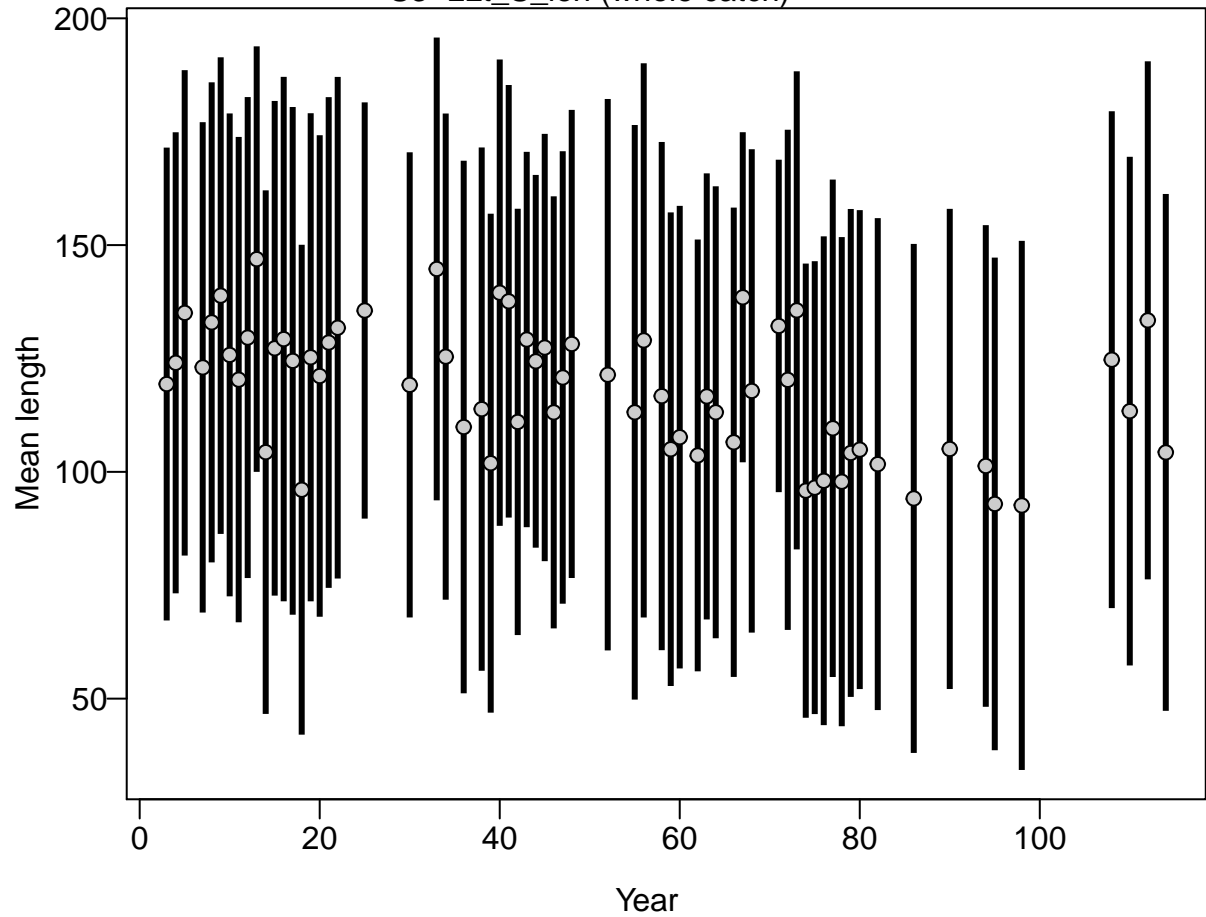




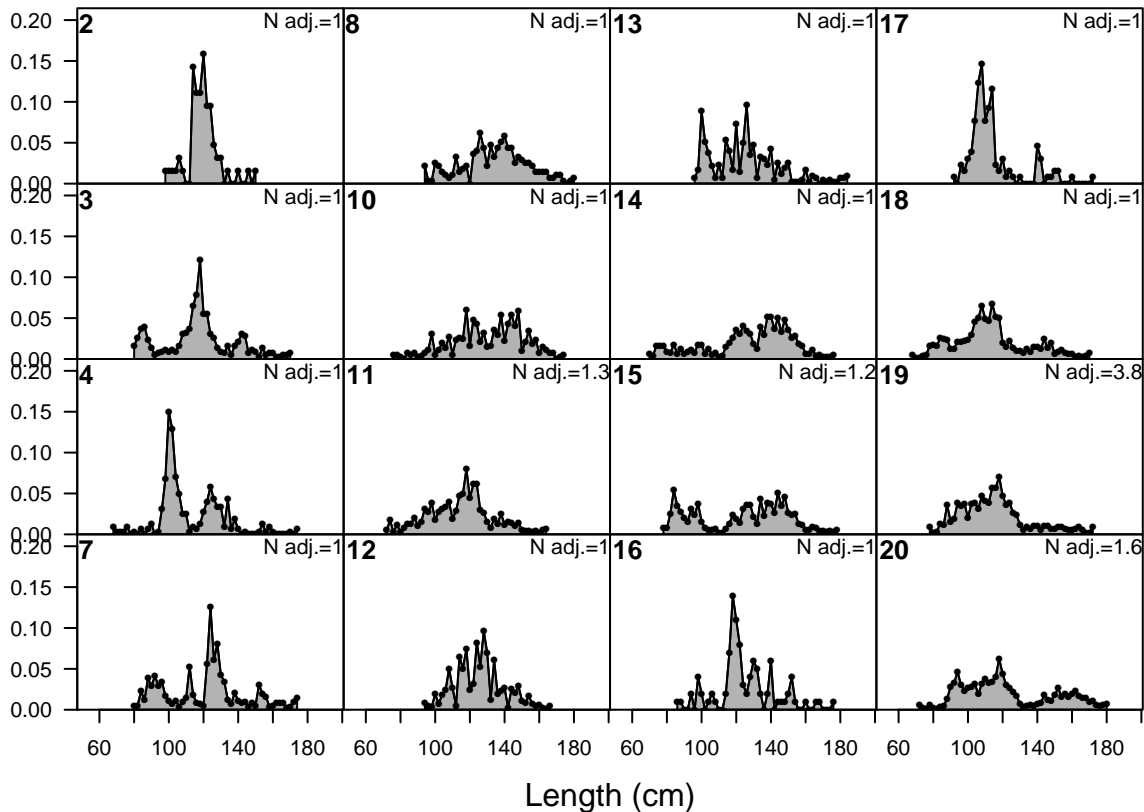
Length (cm)



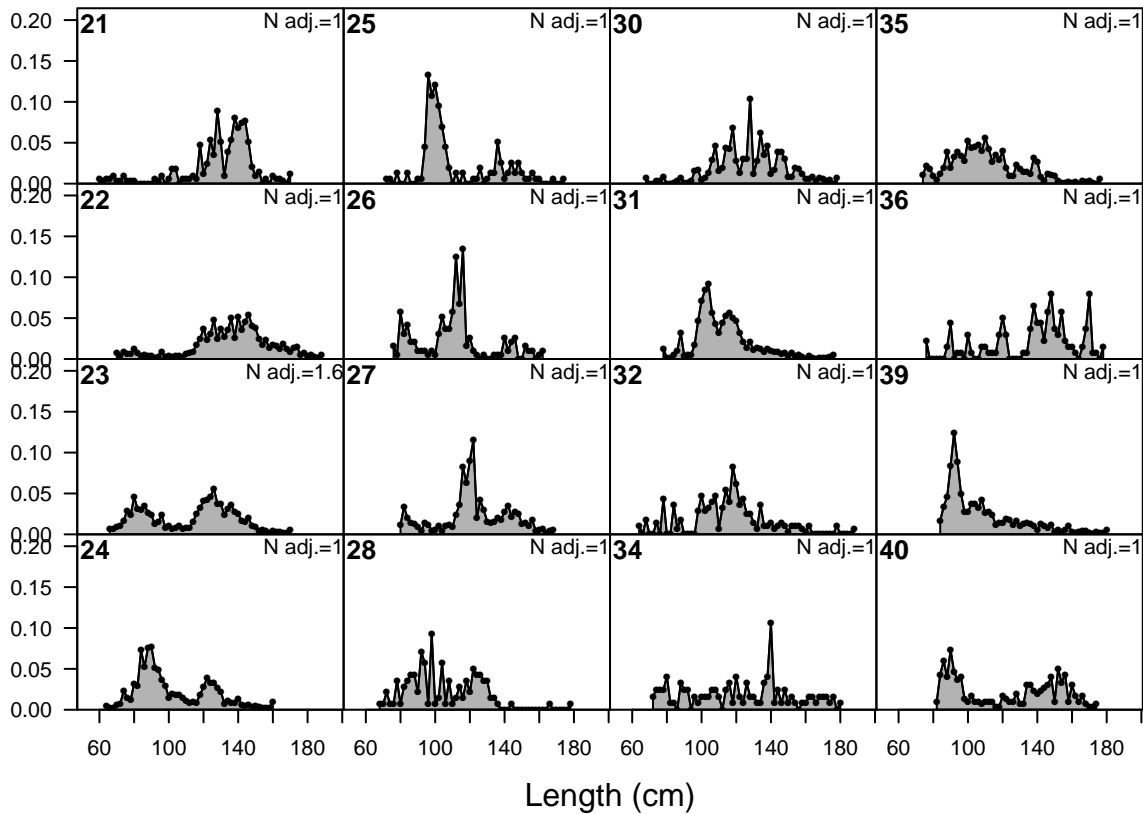
S3-LLt_S_len (whole catch)

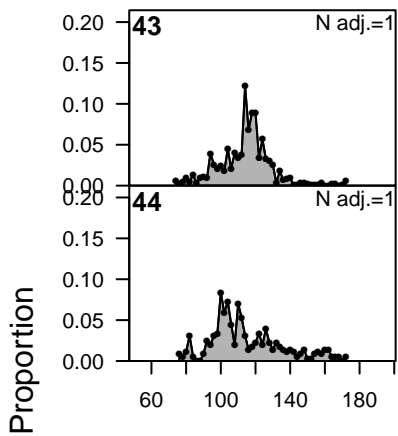


Proportion

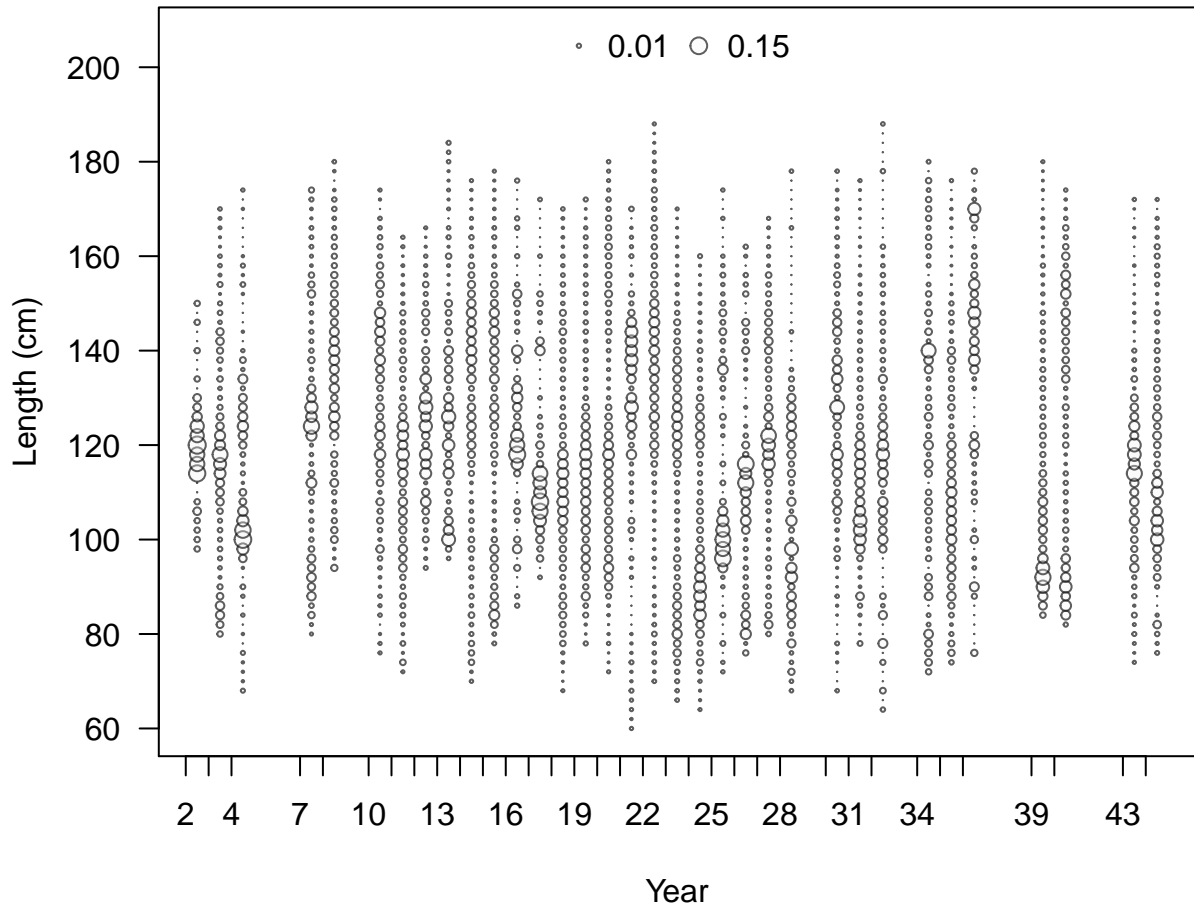


Proportion

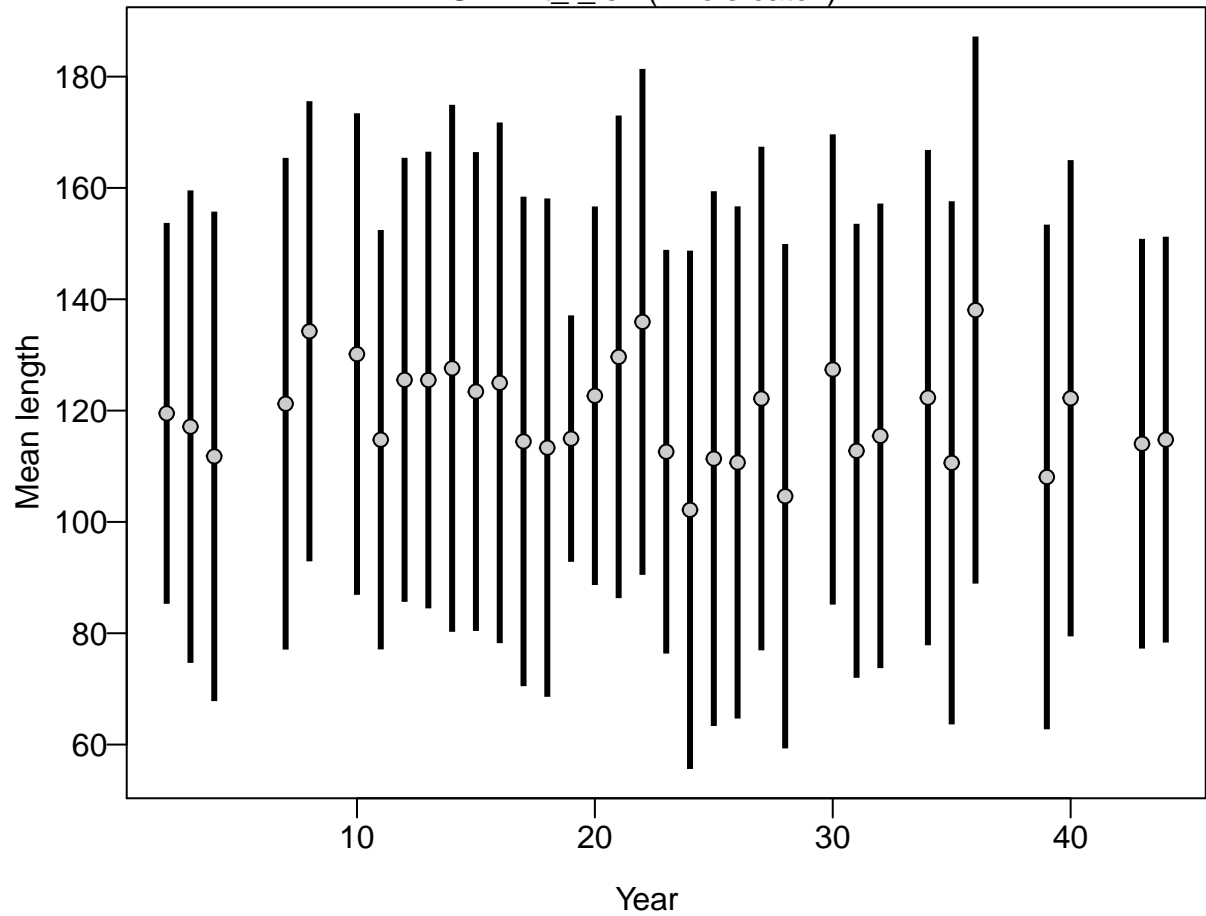




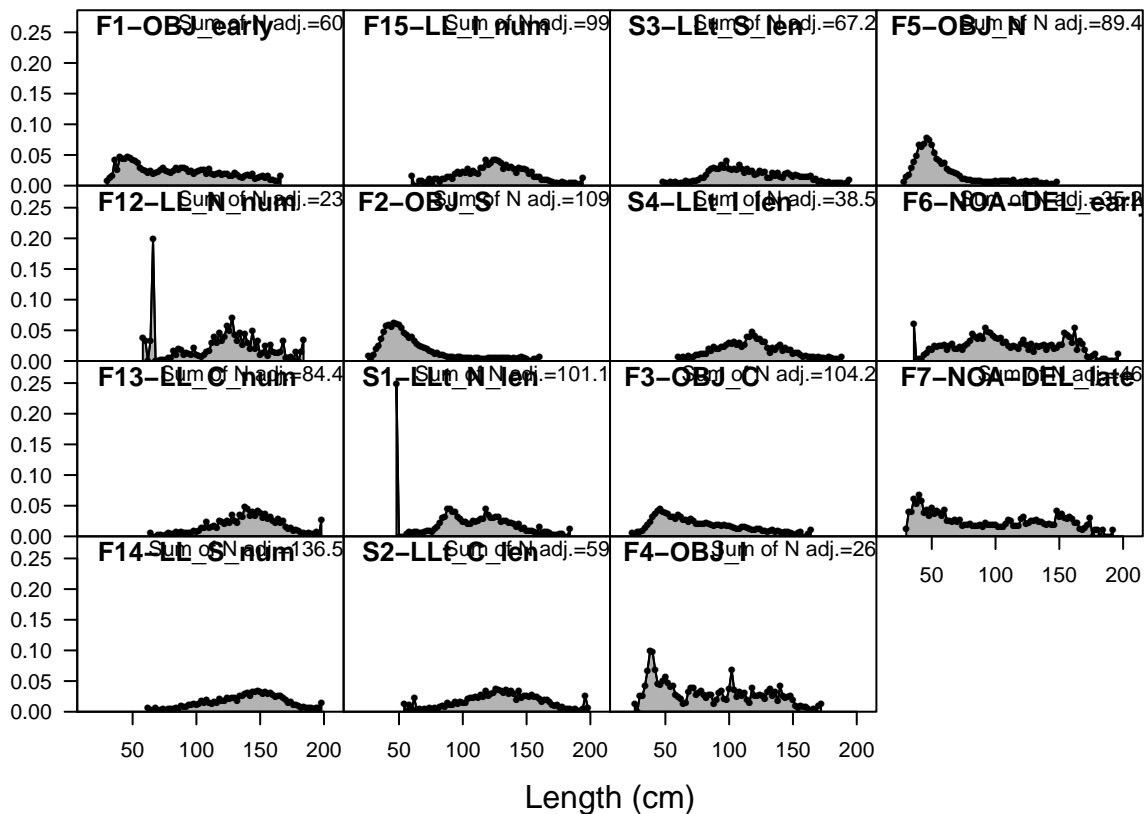
Length (cm)

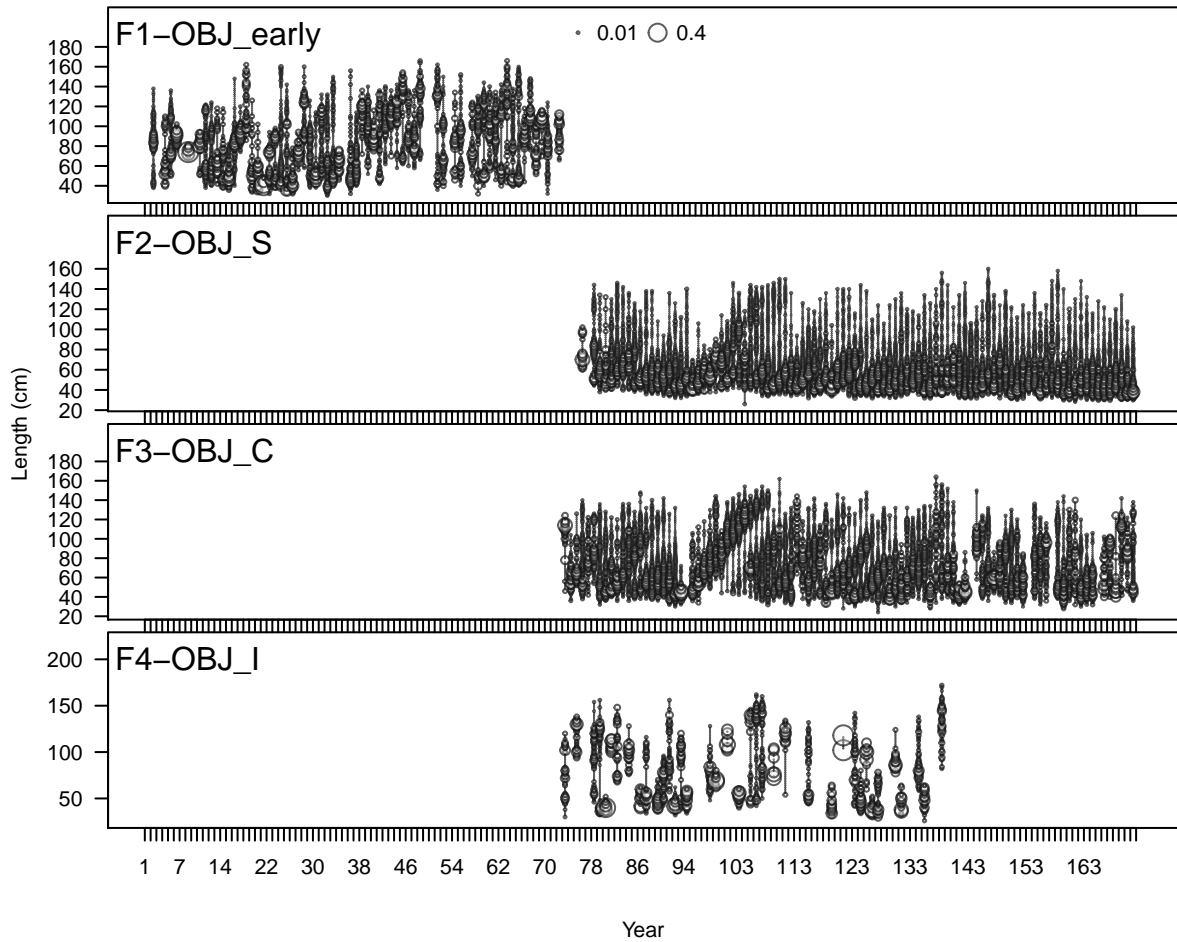


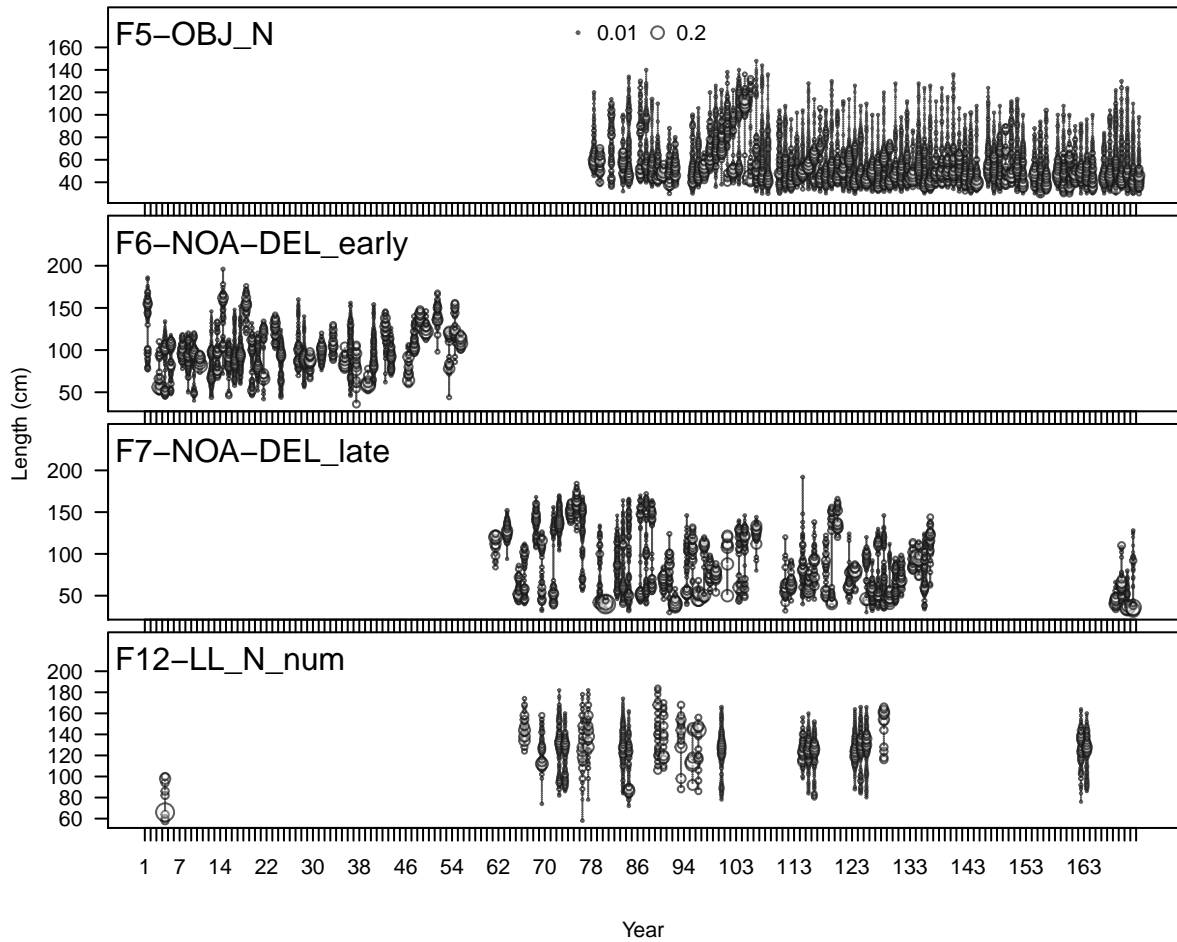
S4-LLt_I_len (whole catch)

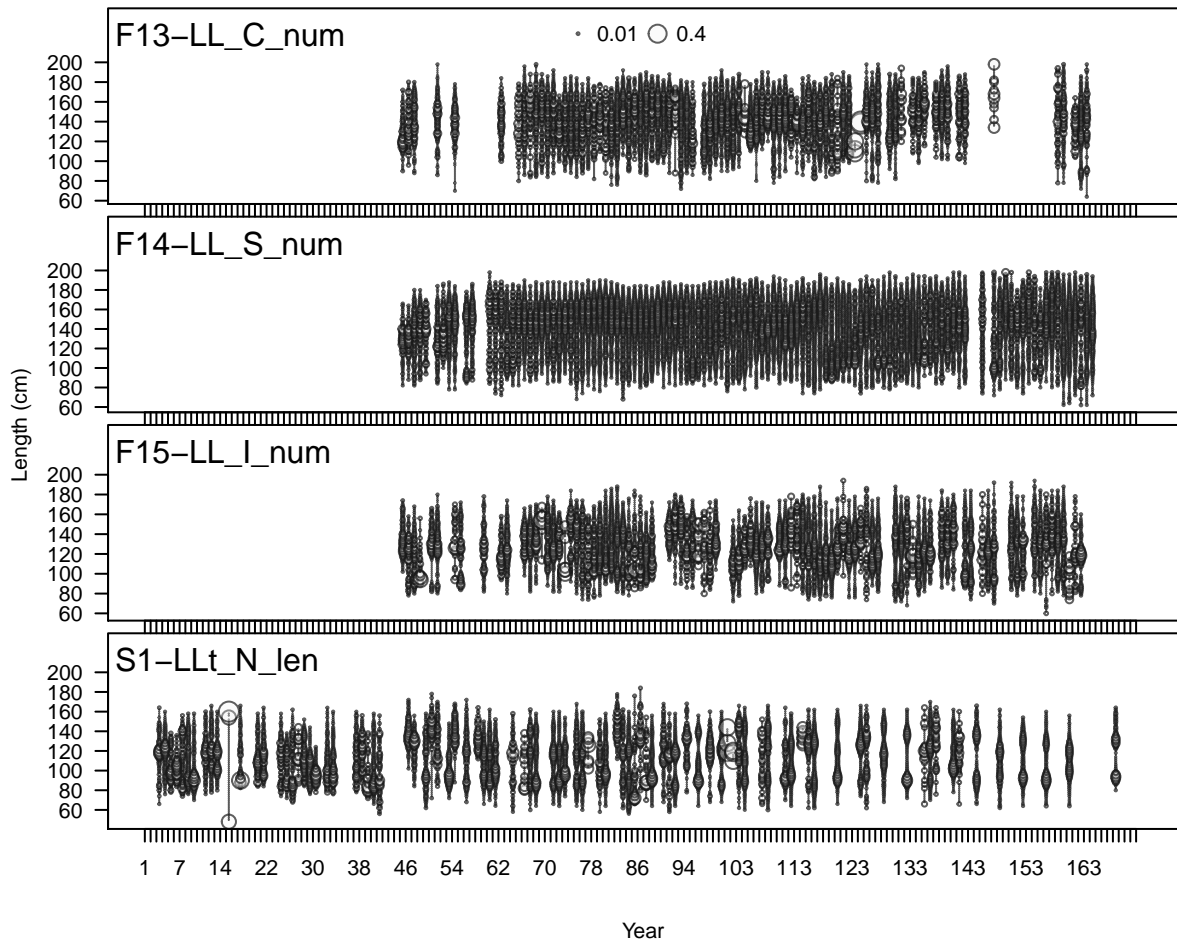


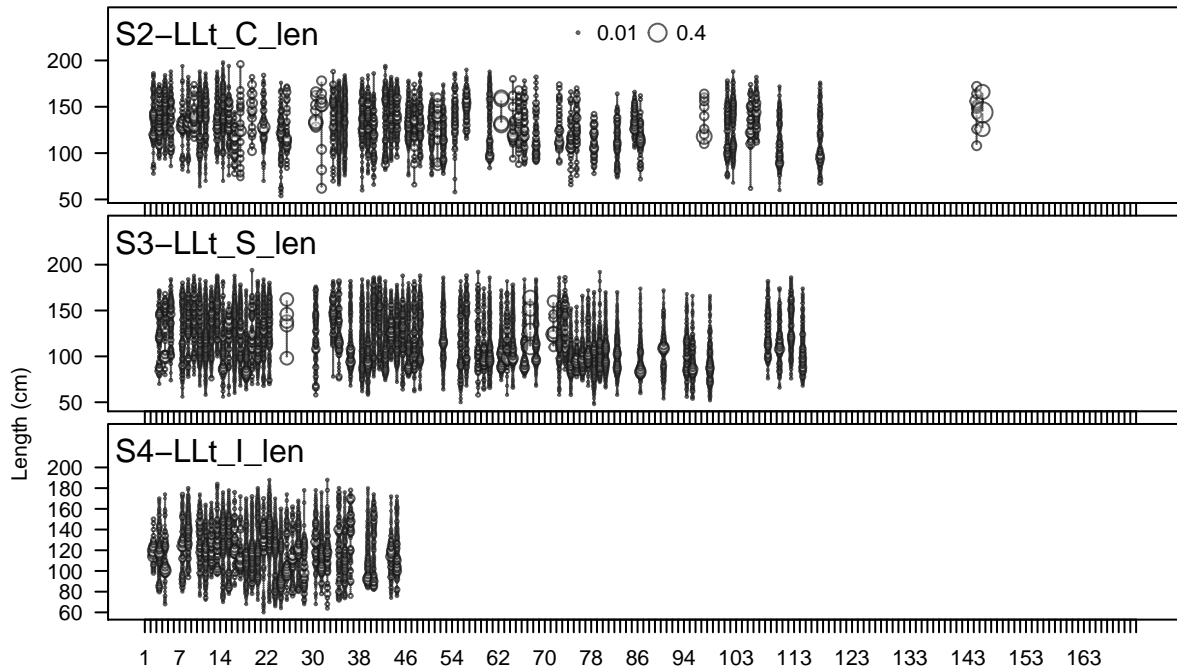
Proportion



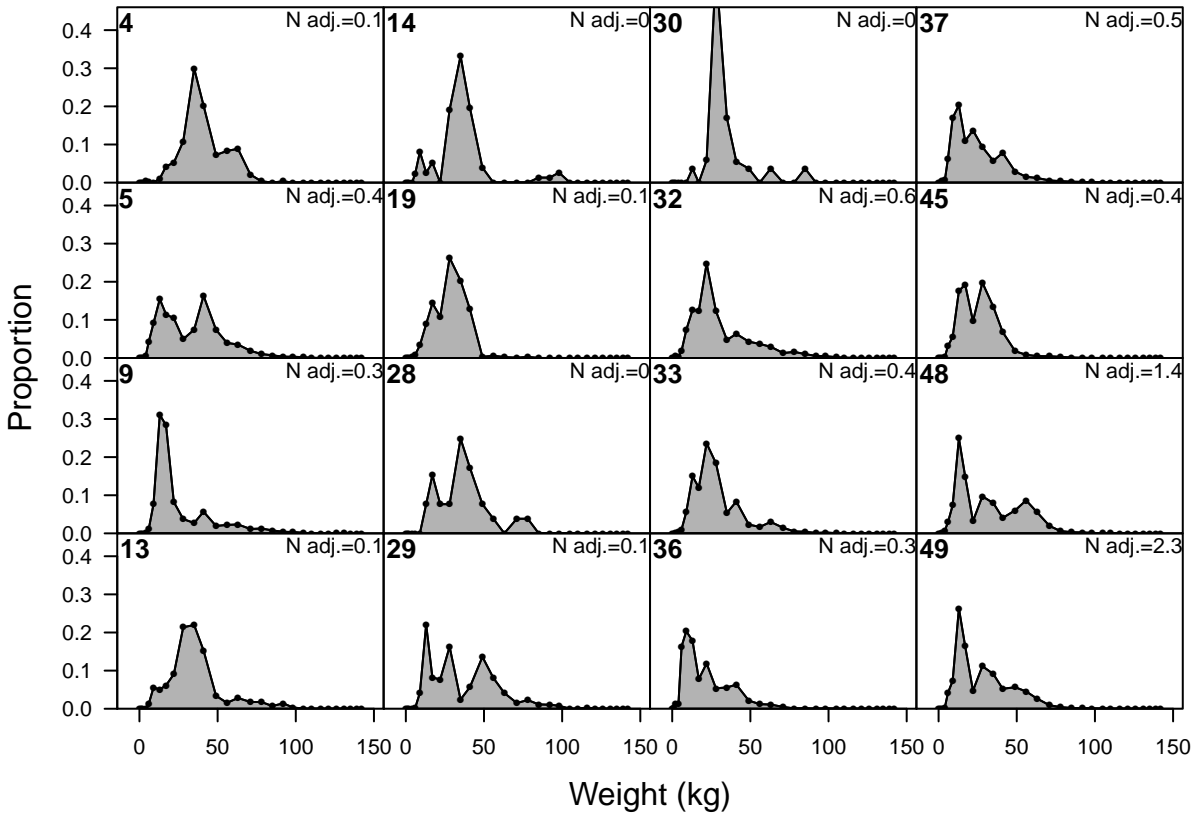


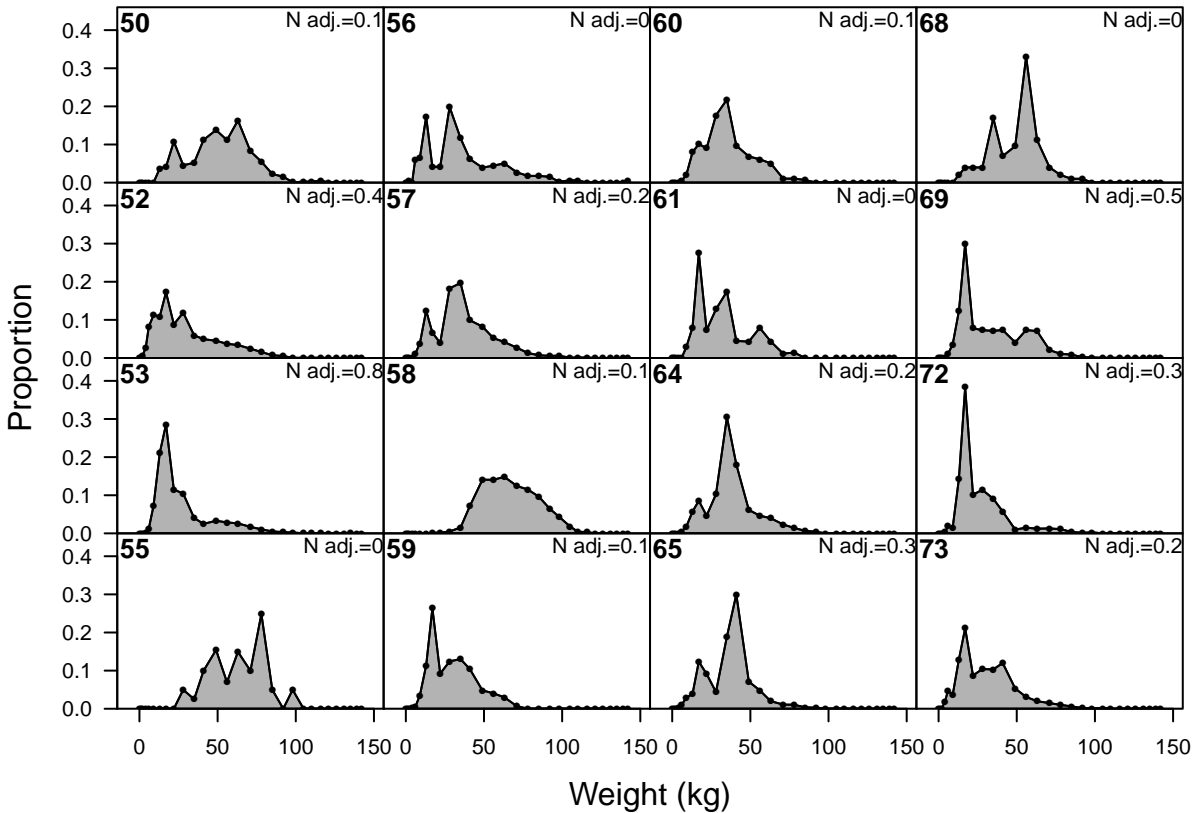


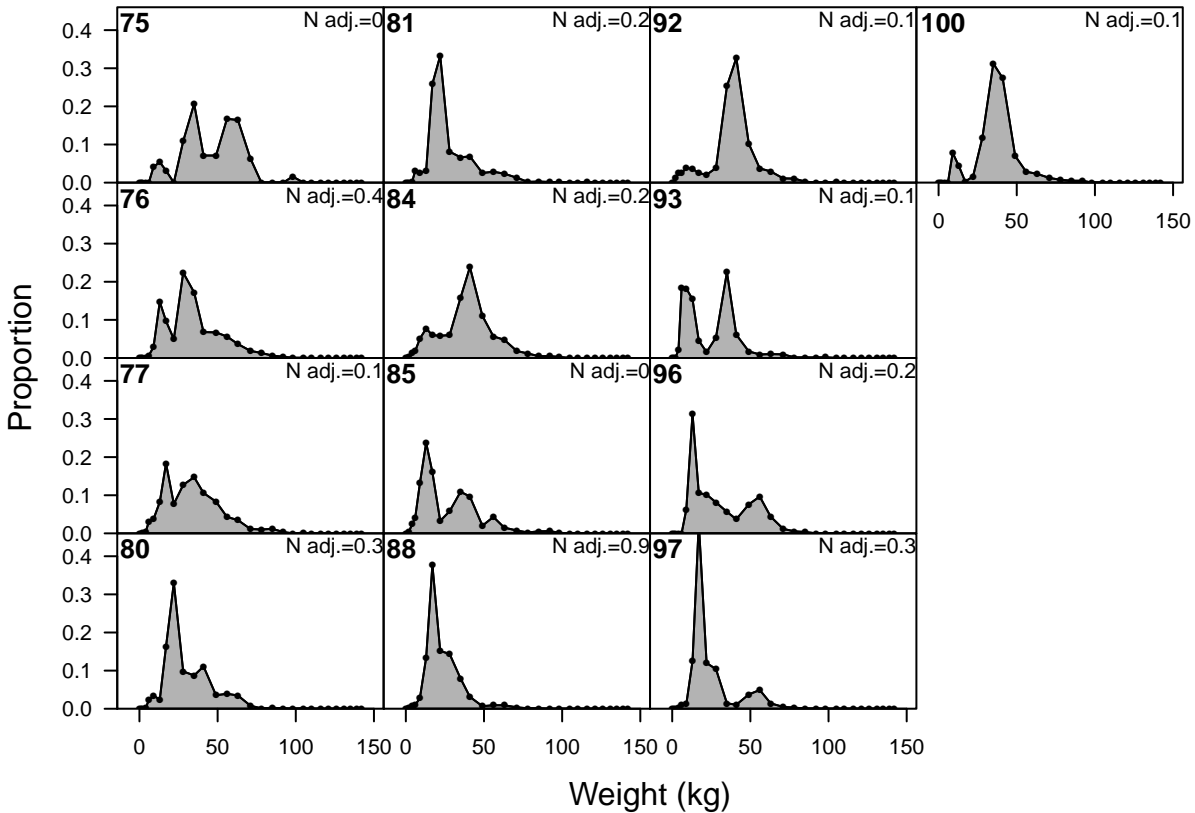


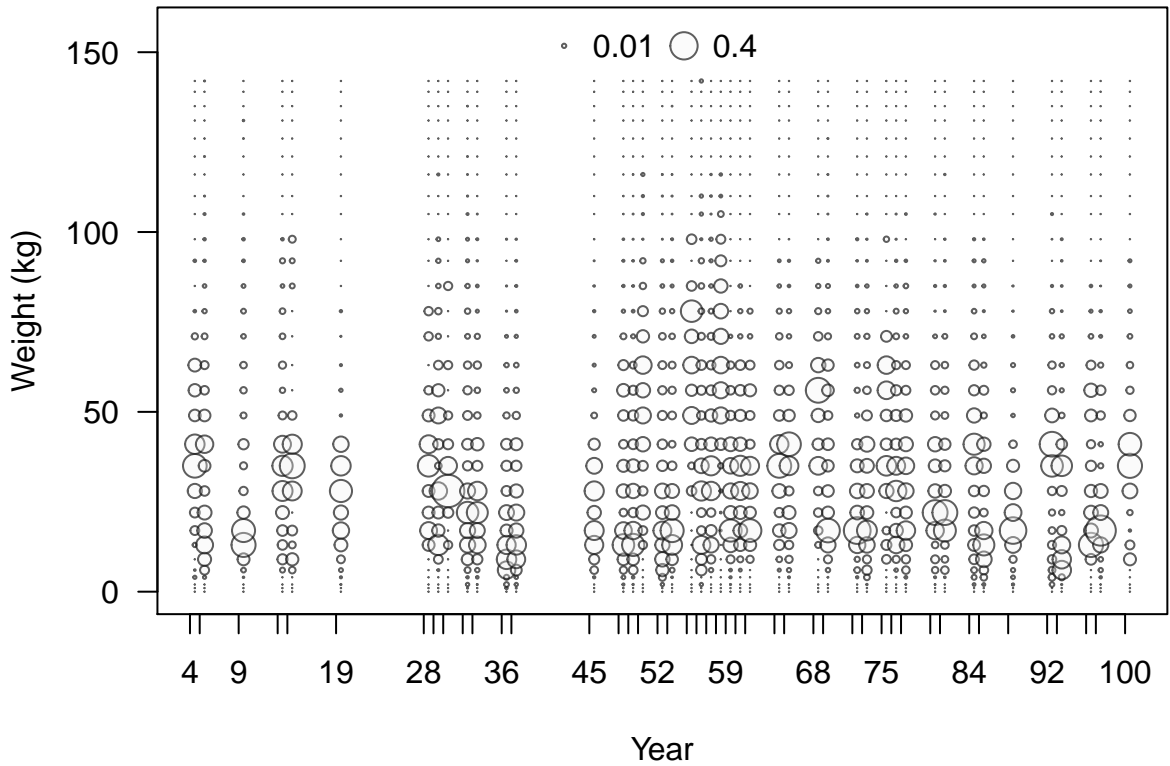


Year

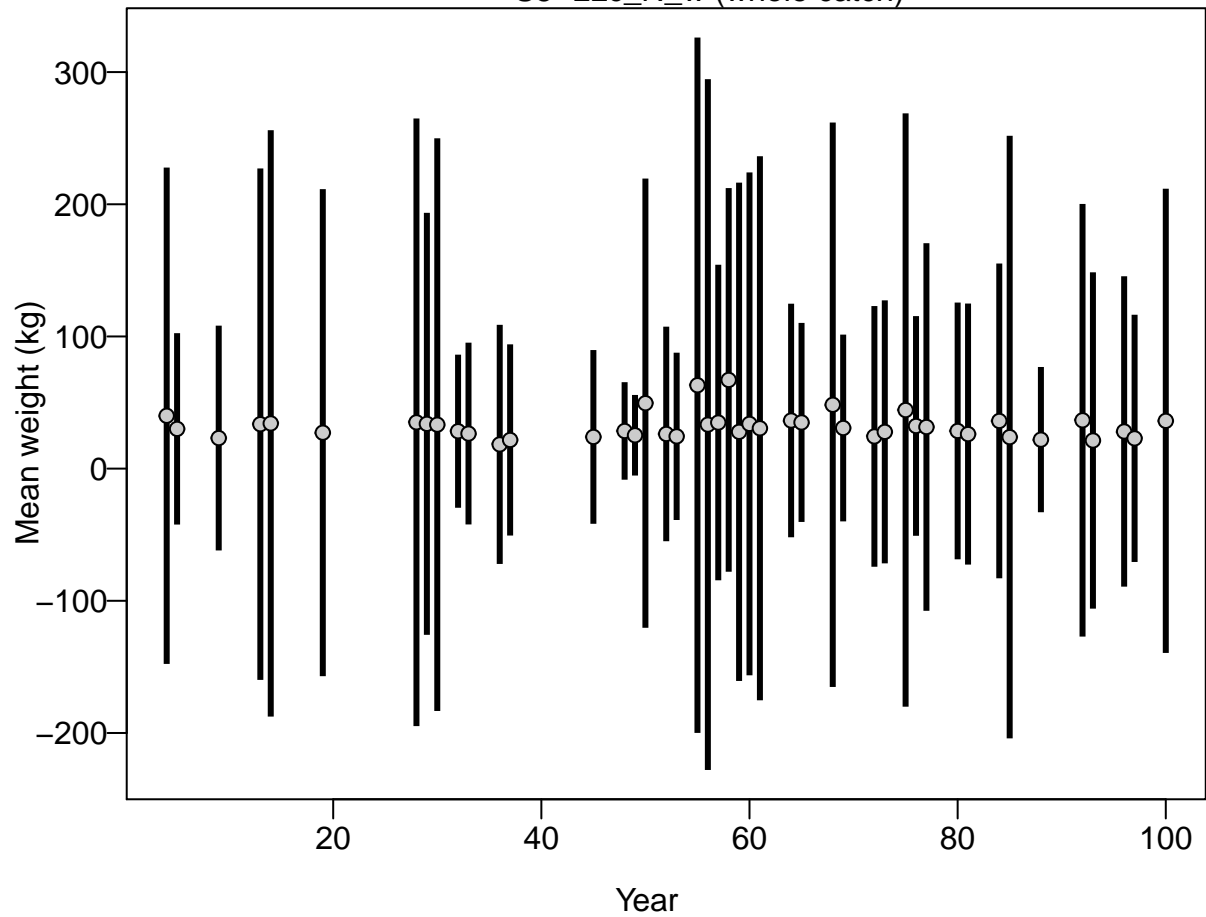




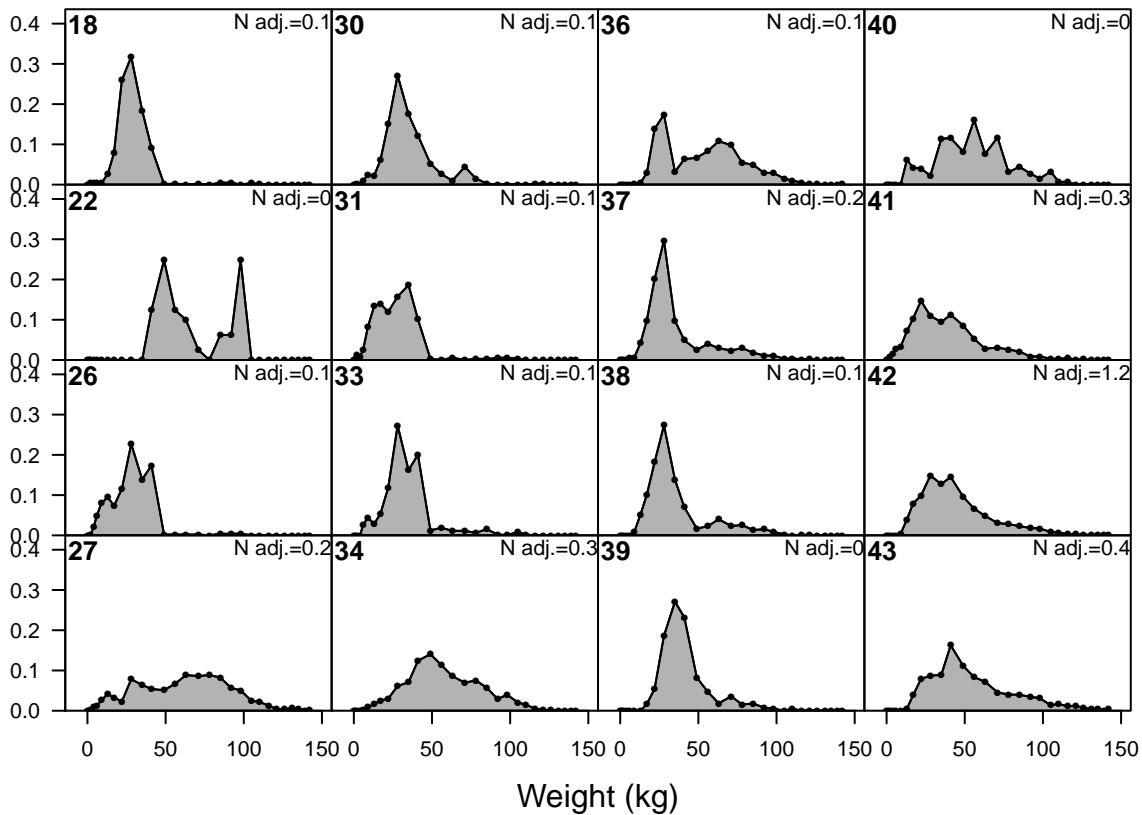


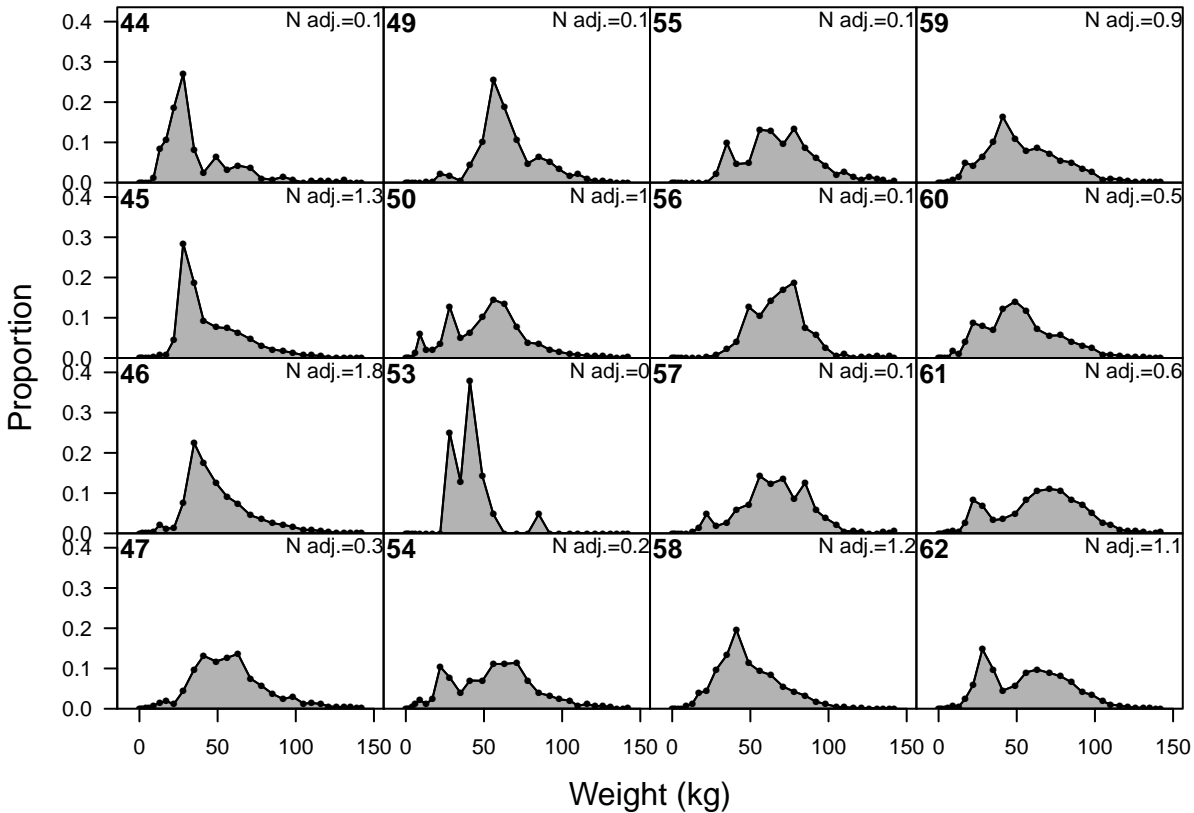


S5-LLc_N_w (whole catch)

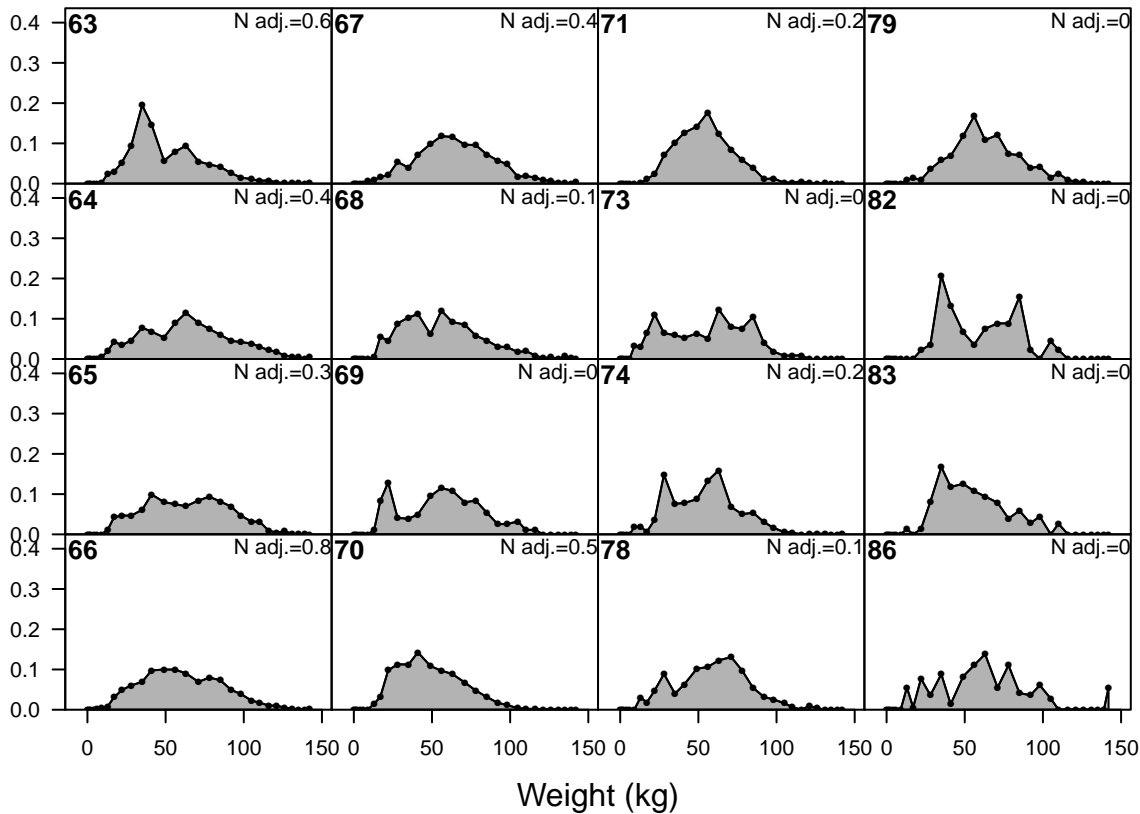


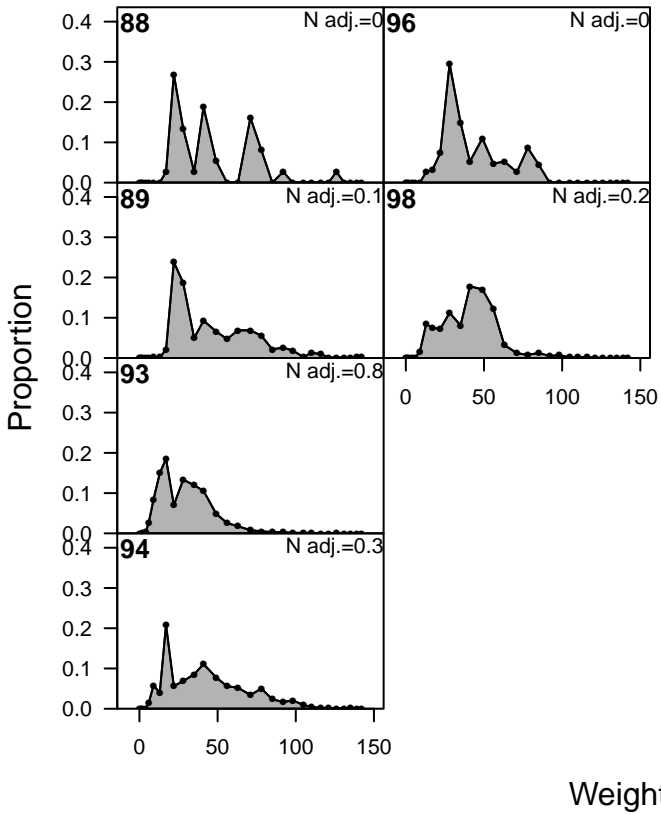
Proportion

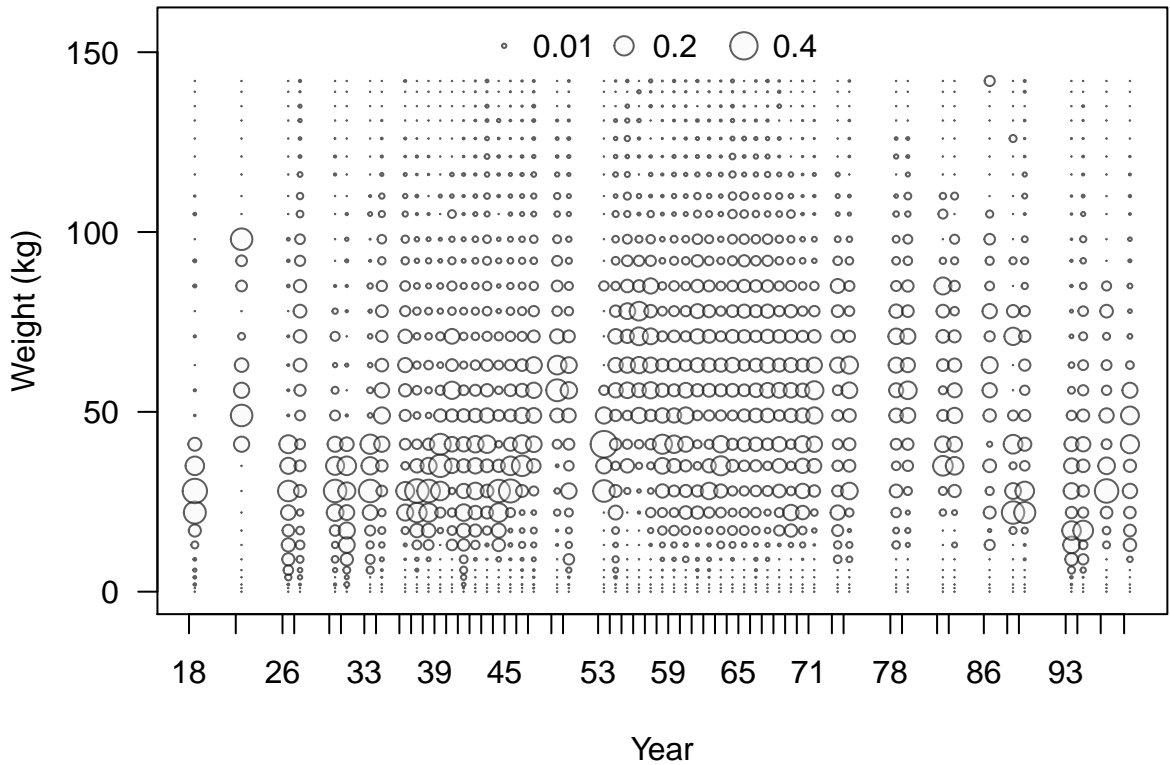




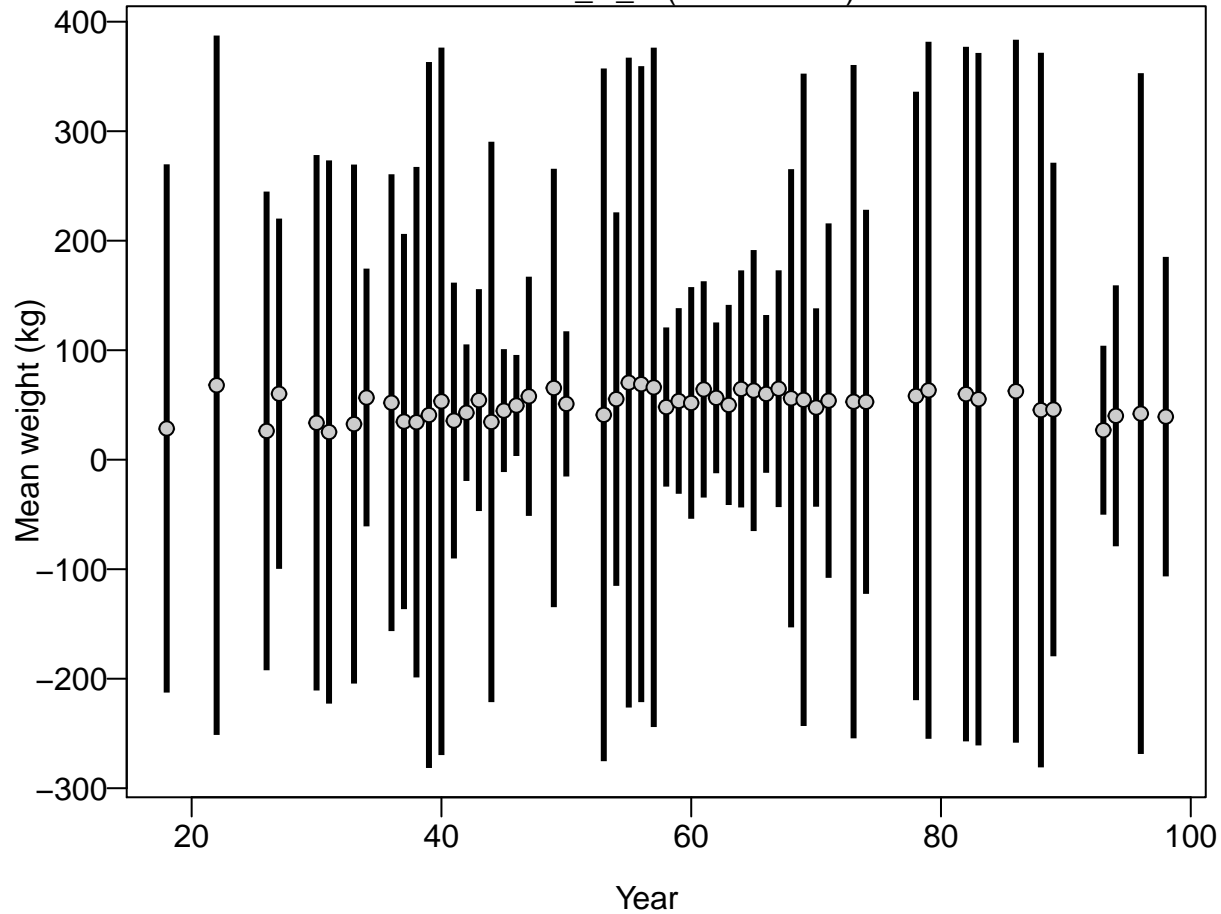
Proportion



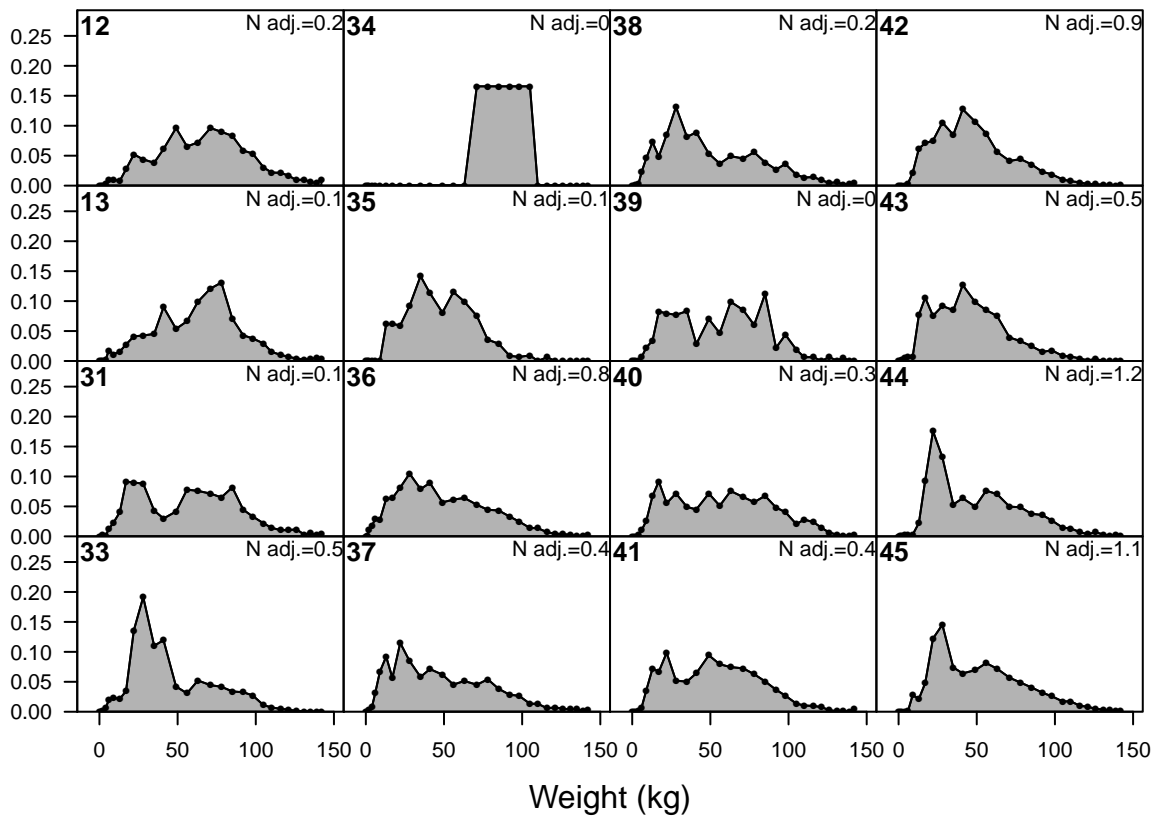




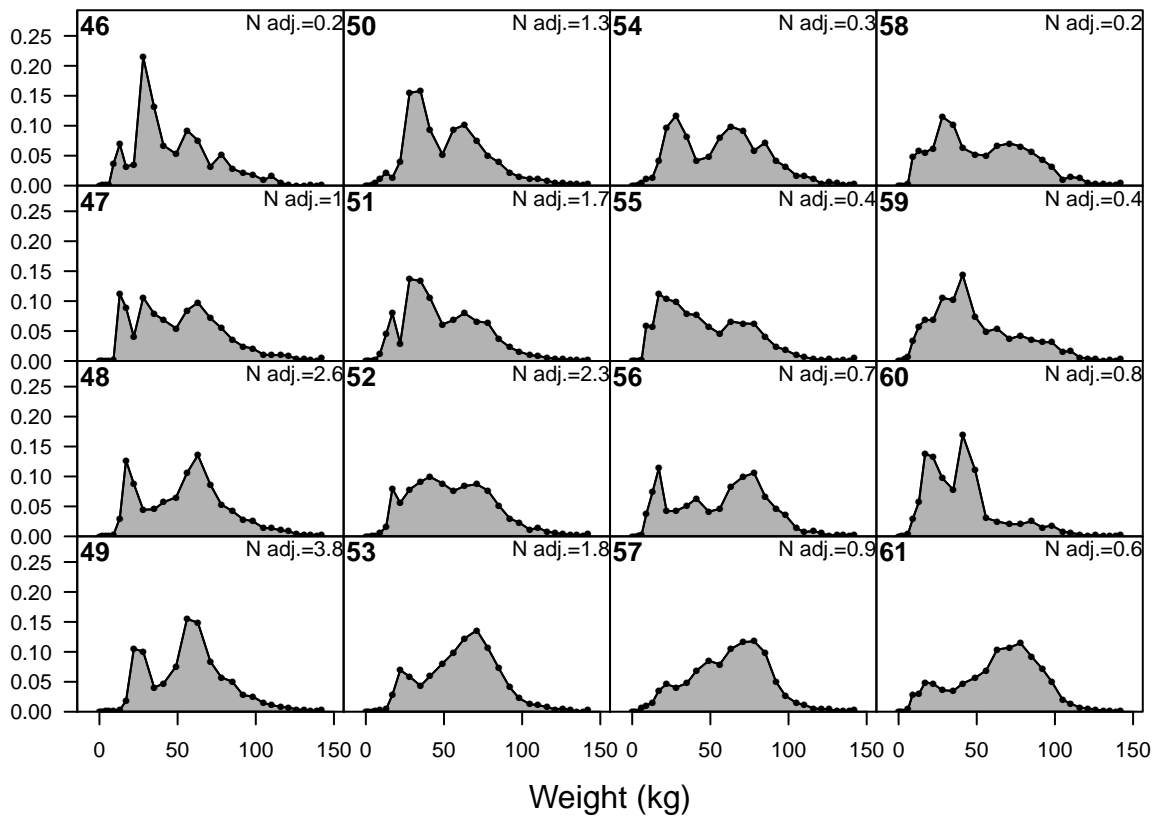
S6-LLc_C_w (whole catch)



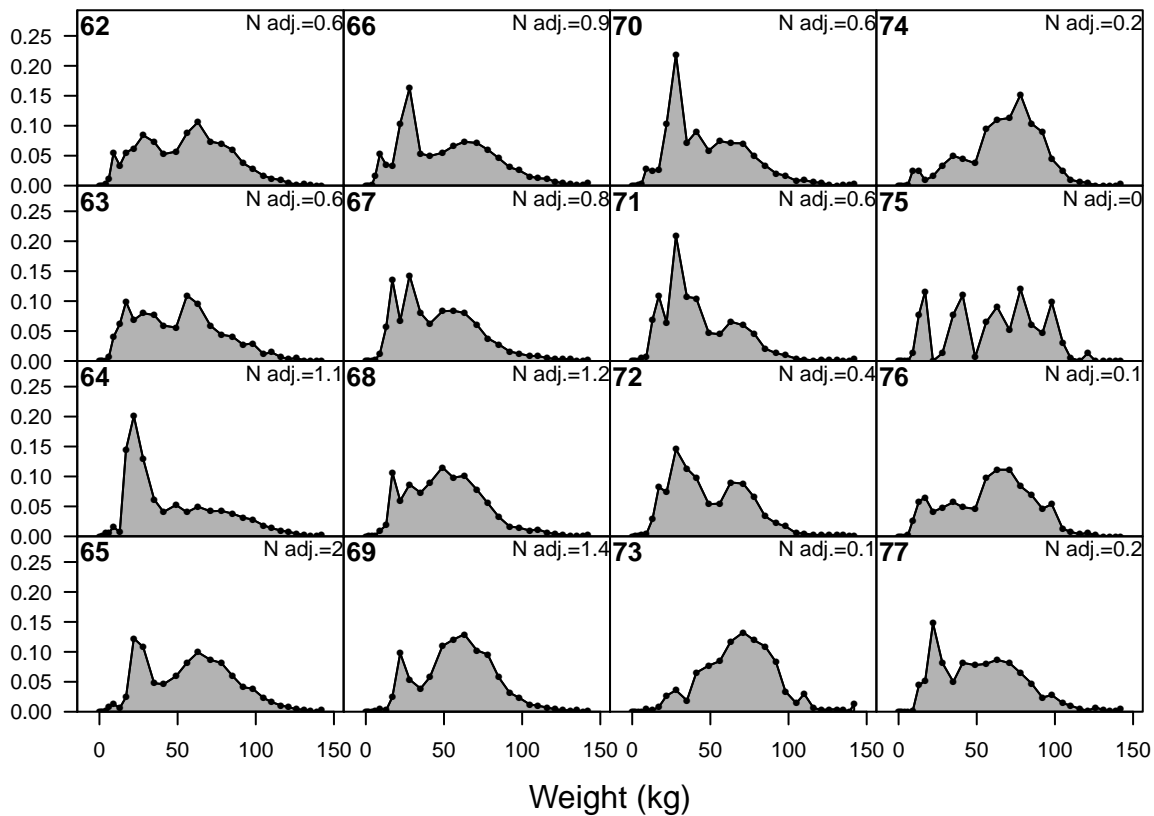
Proportion



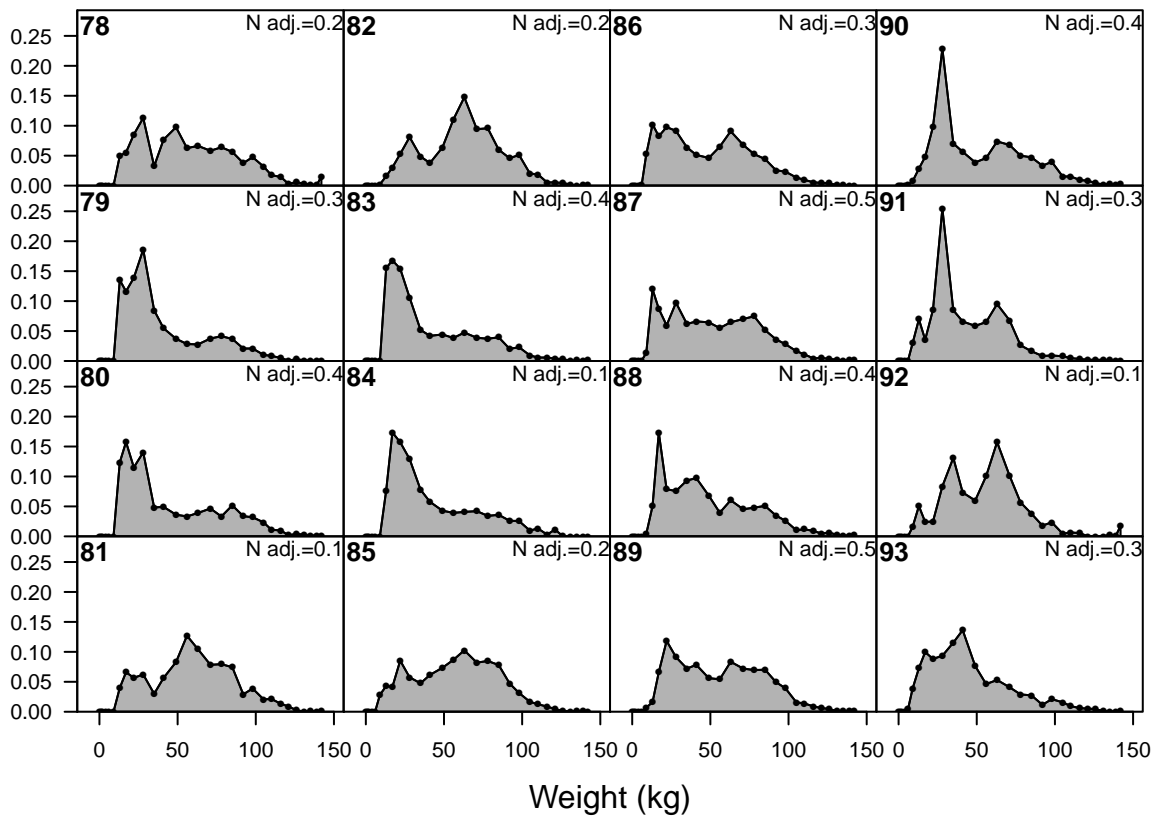
Proportion

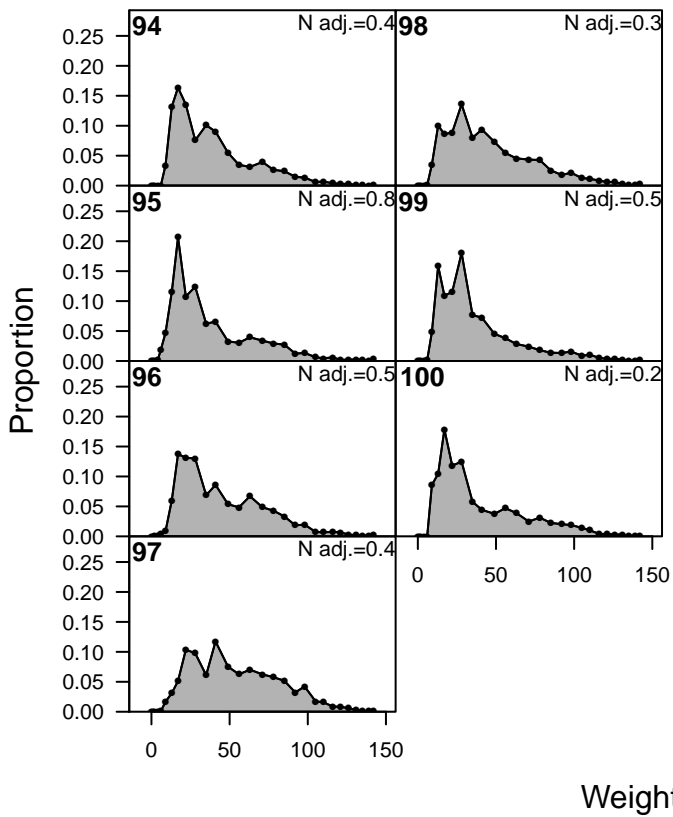


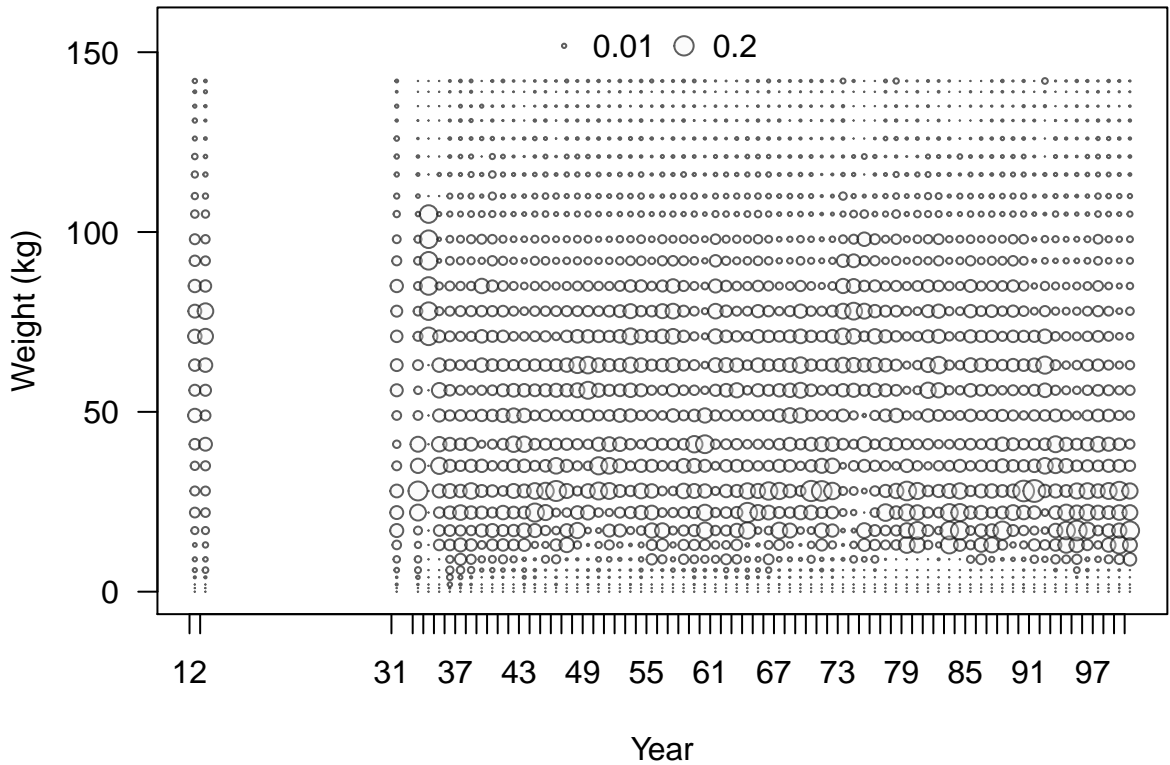
Proportion



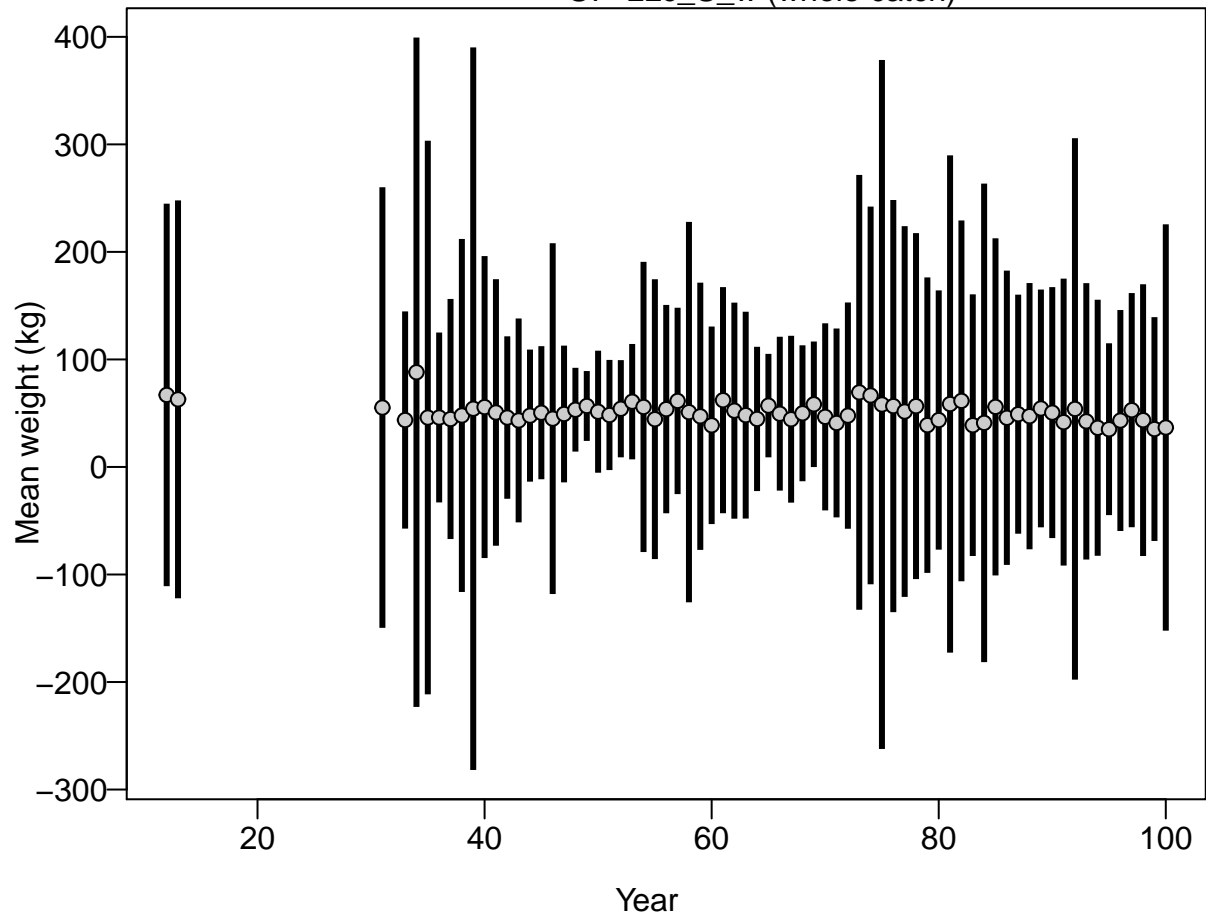
Proportion

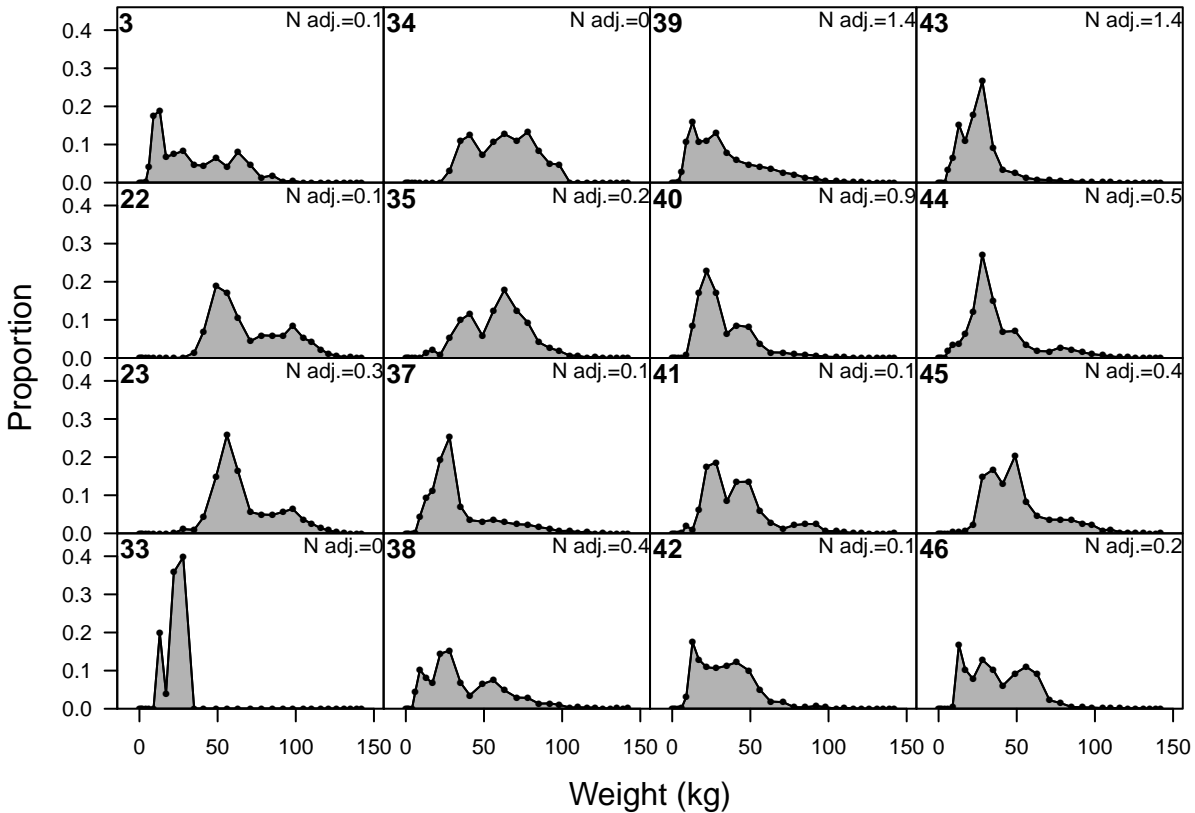




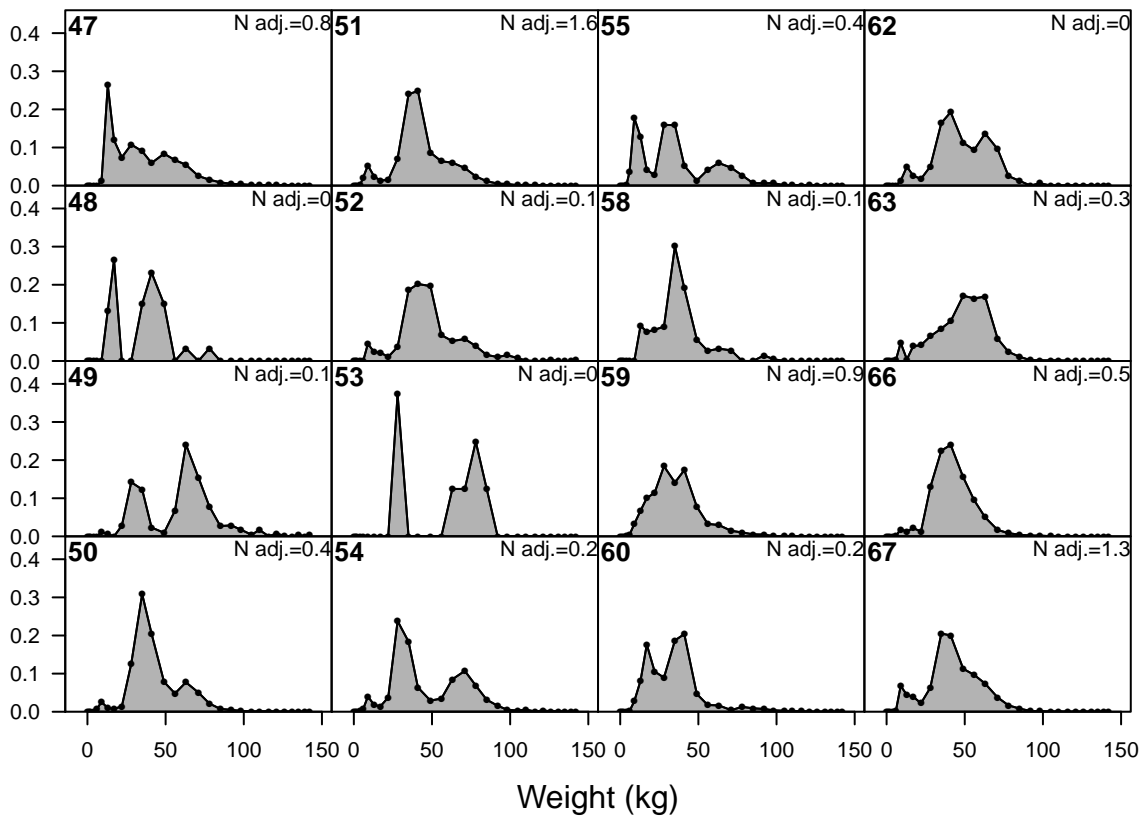


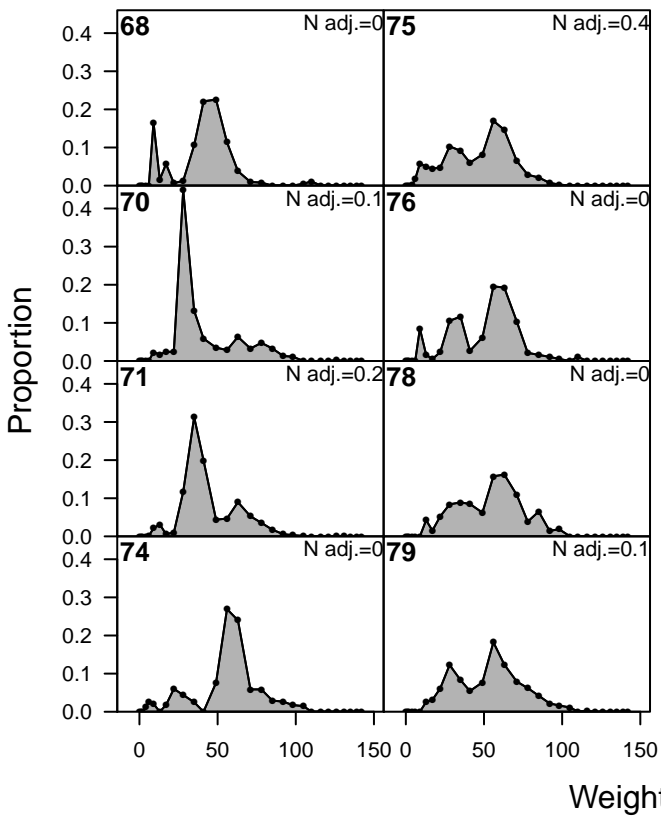
S7-LLc_S_w (whole catch)

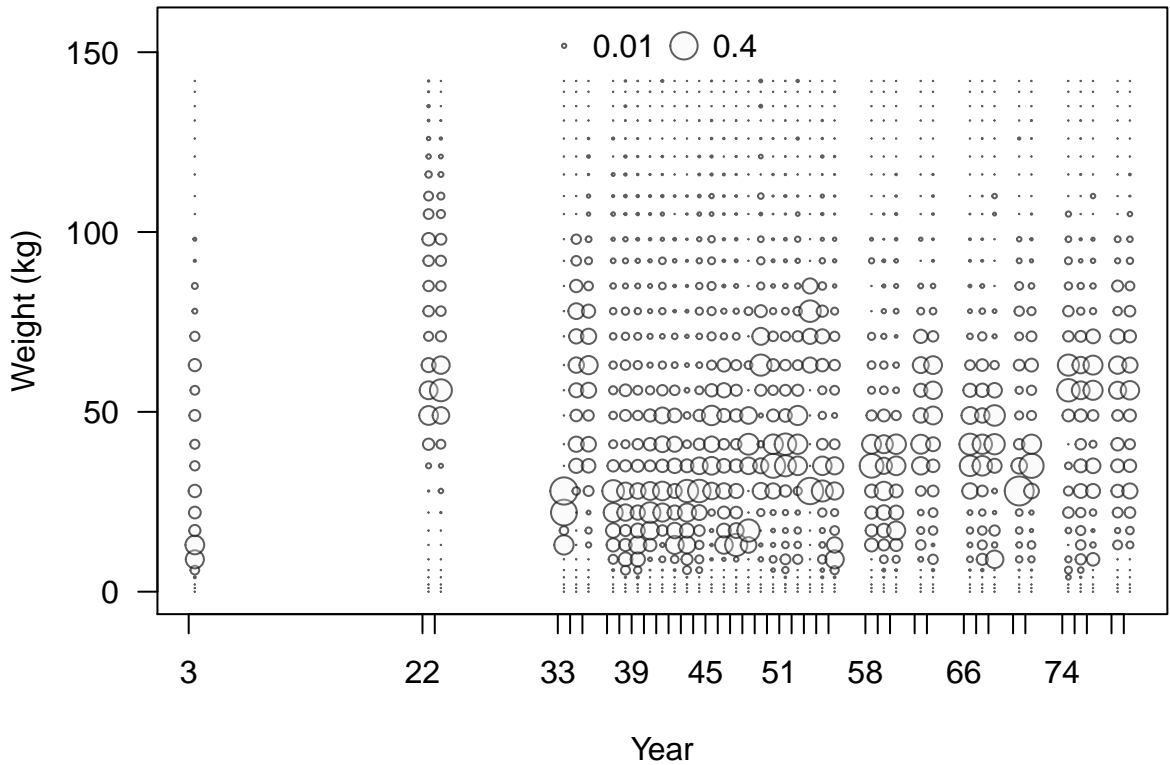




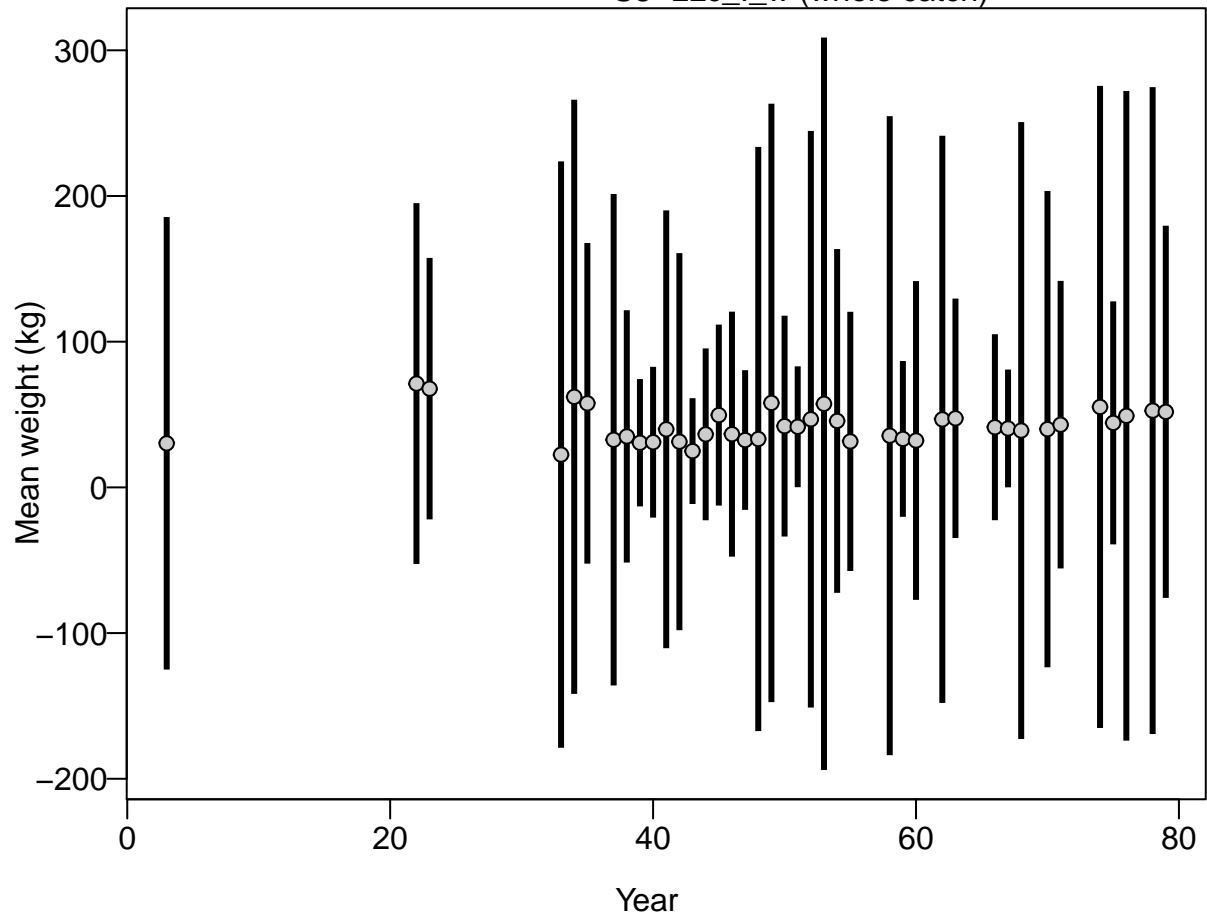
Proportion

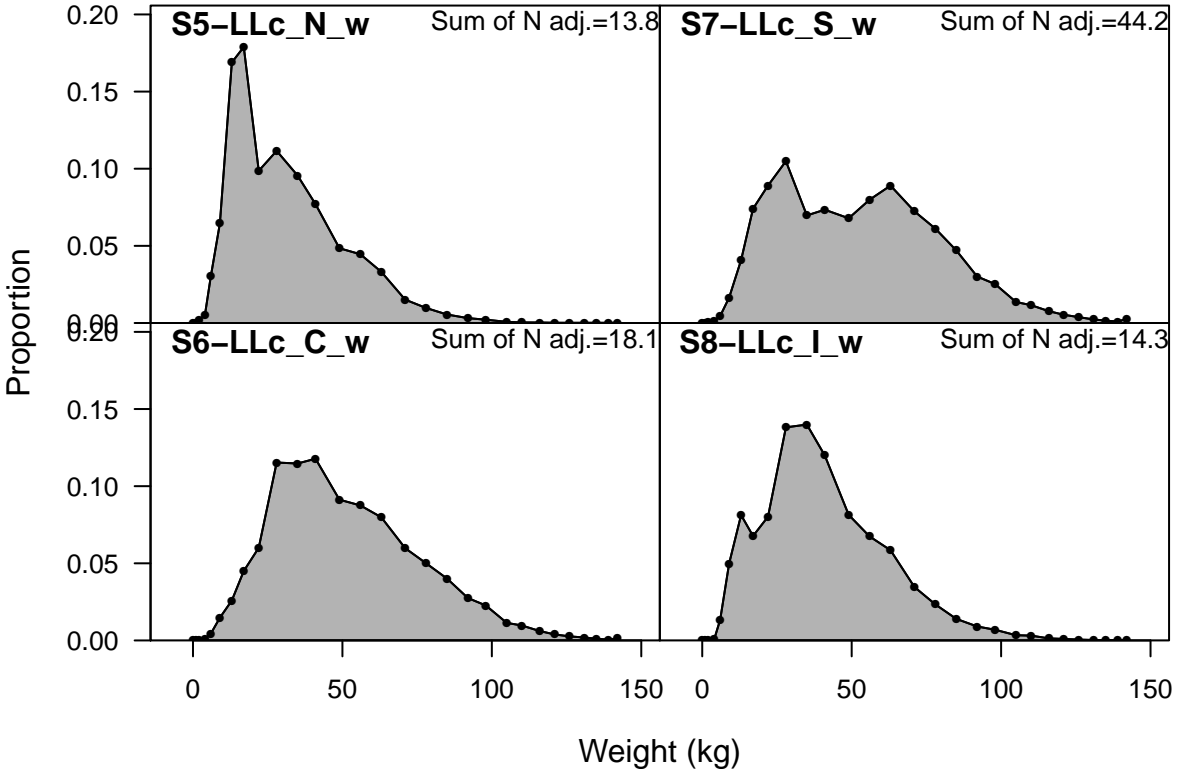


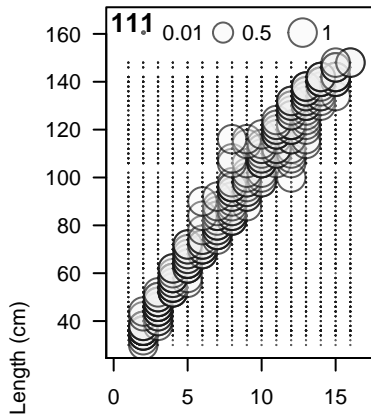




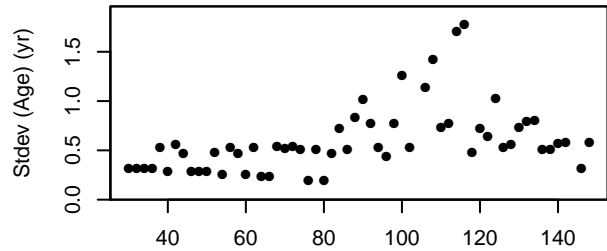
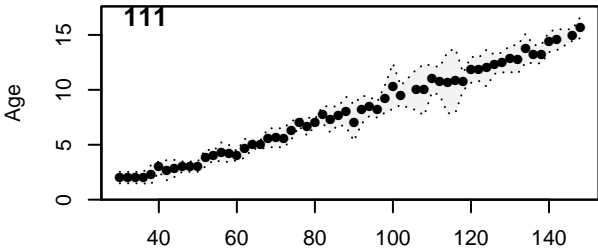
S8-LLc_I_w (whole catch)





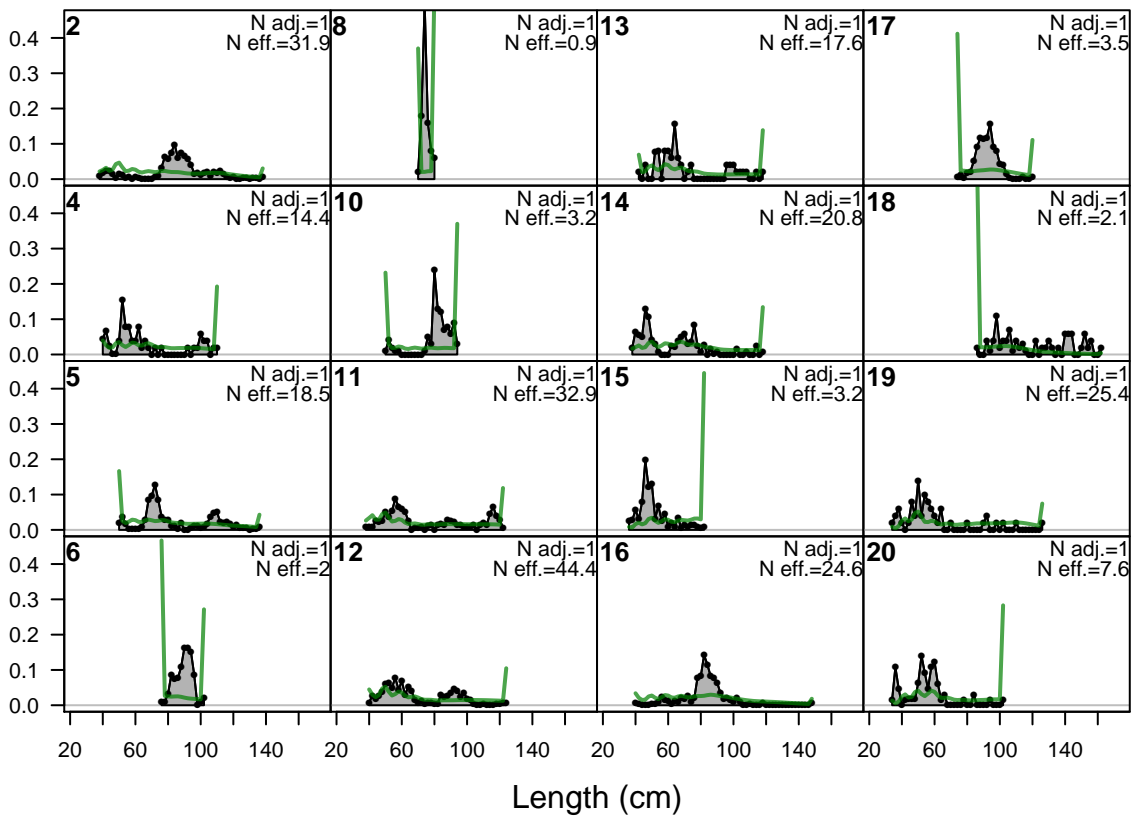


Age (yr)

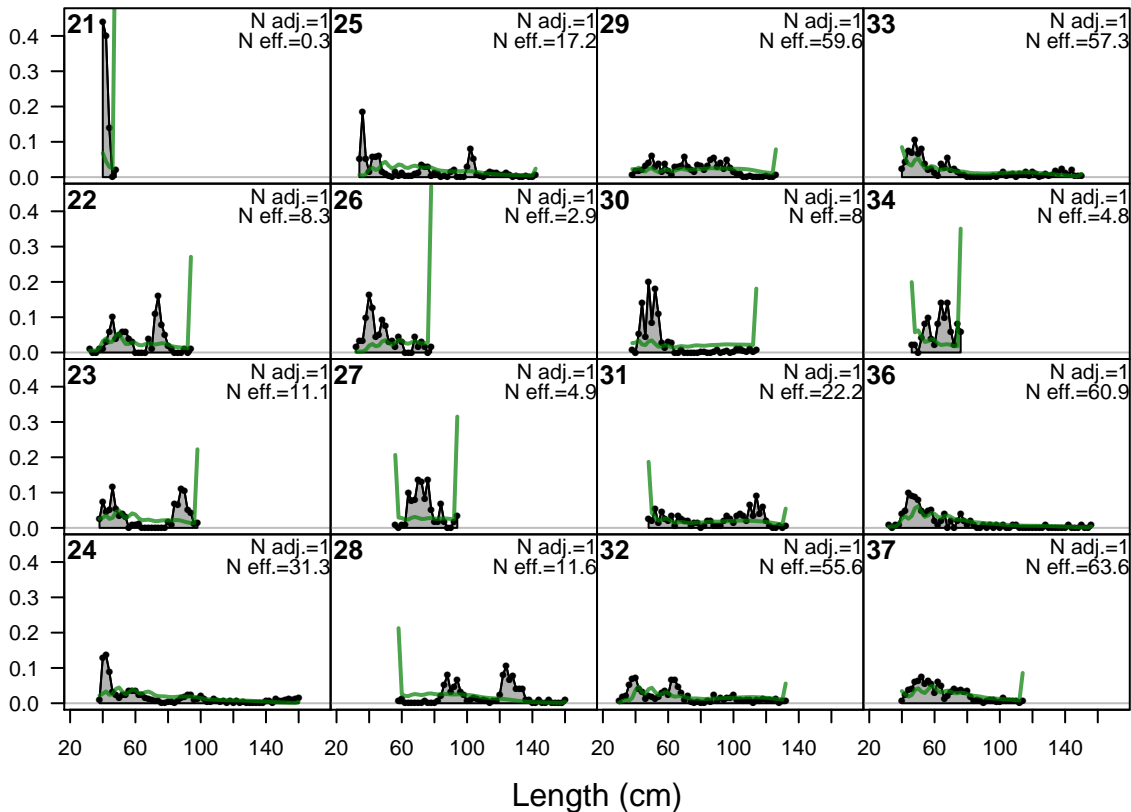


Length (cm)

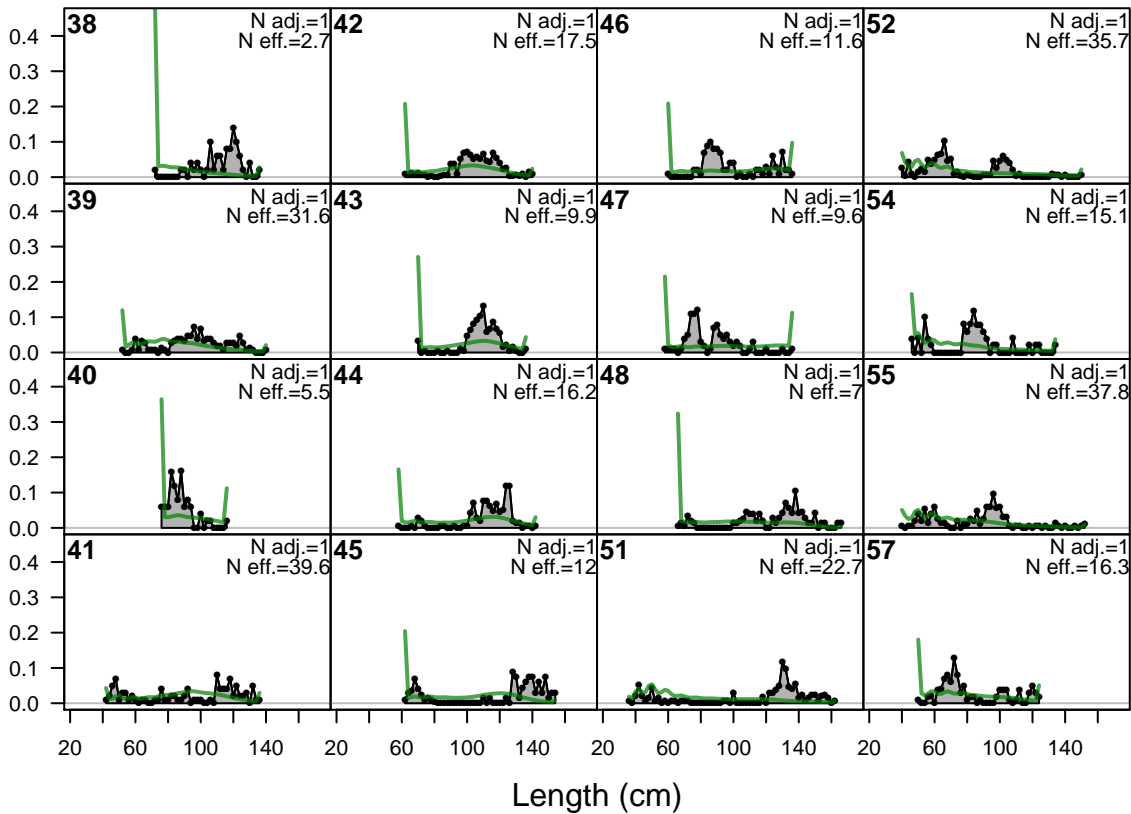
Proportion



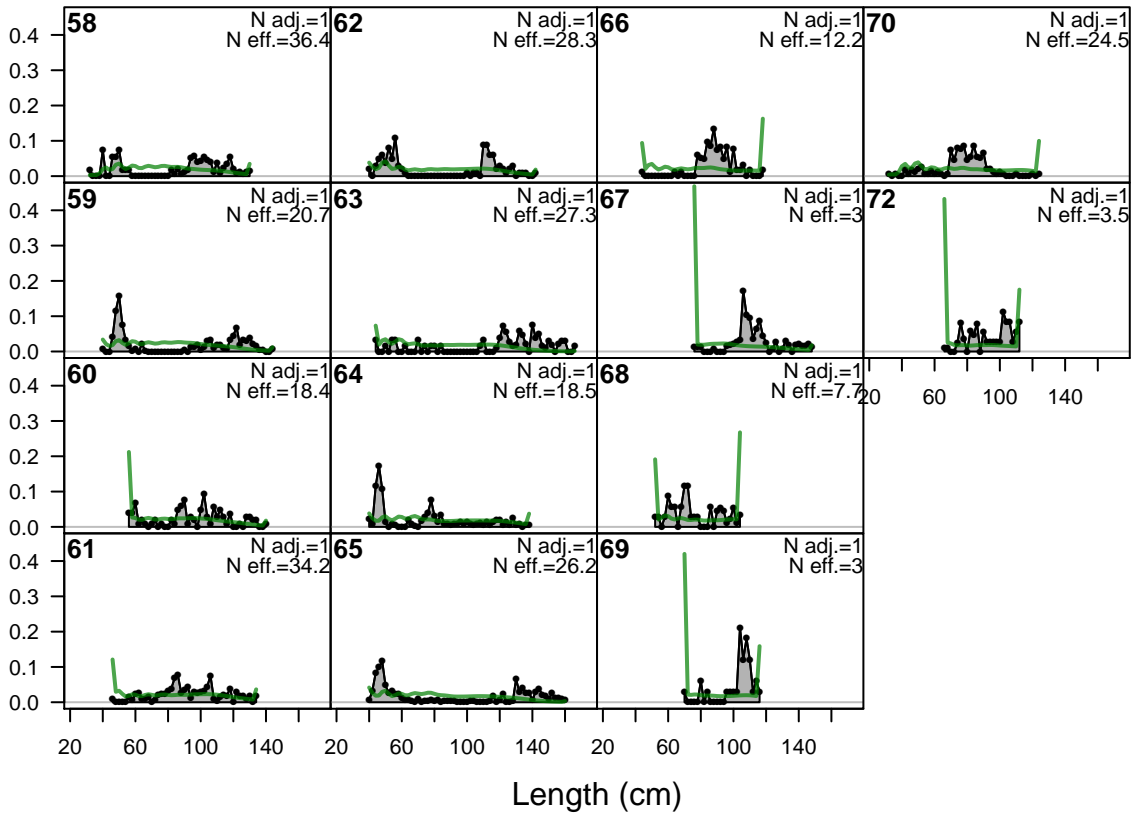
Proportion

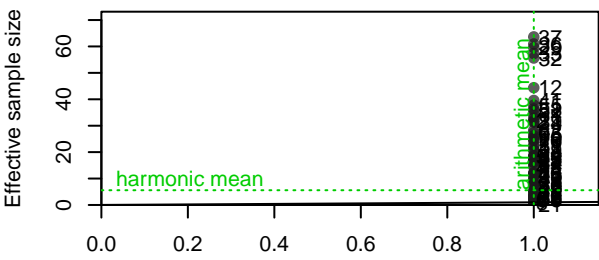
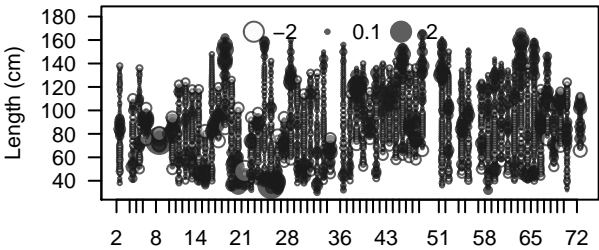


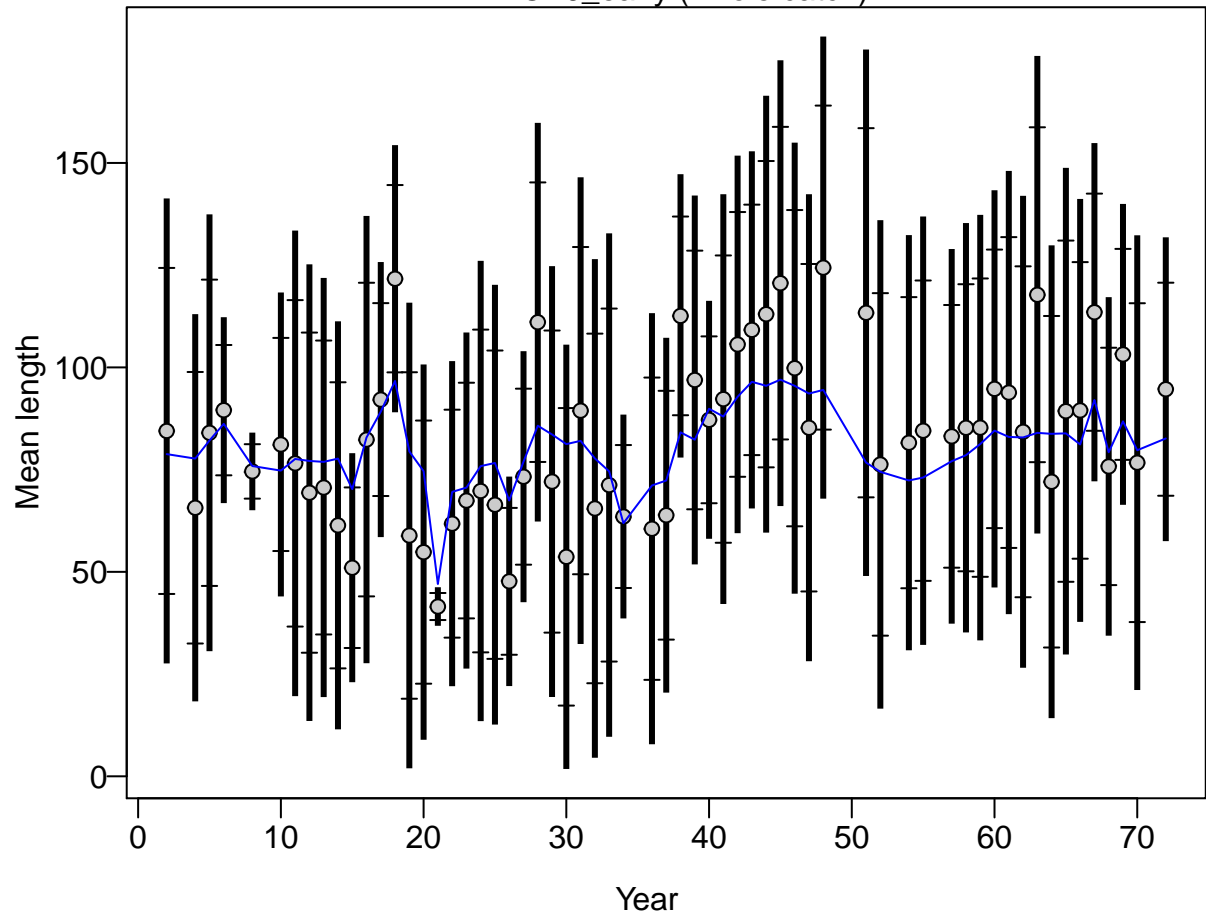
Proportion



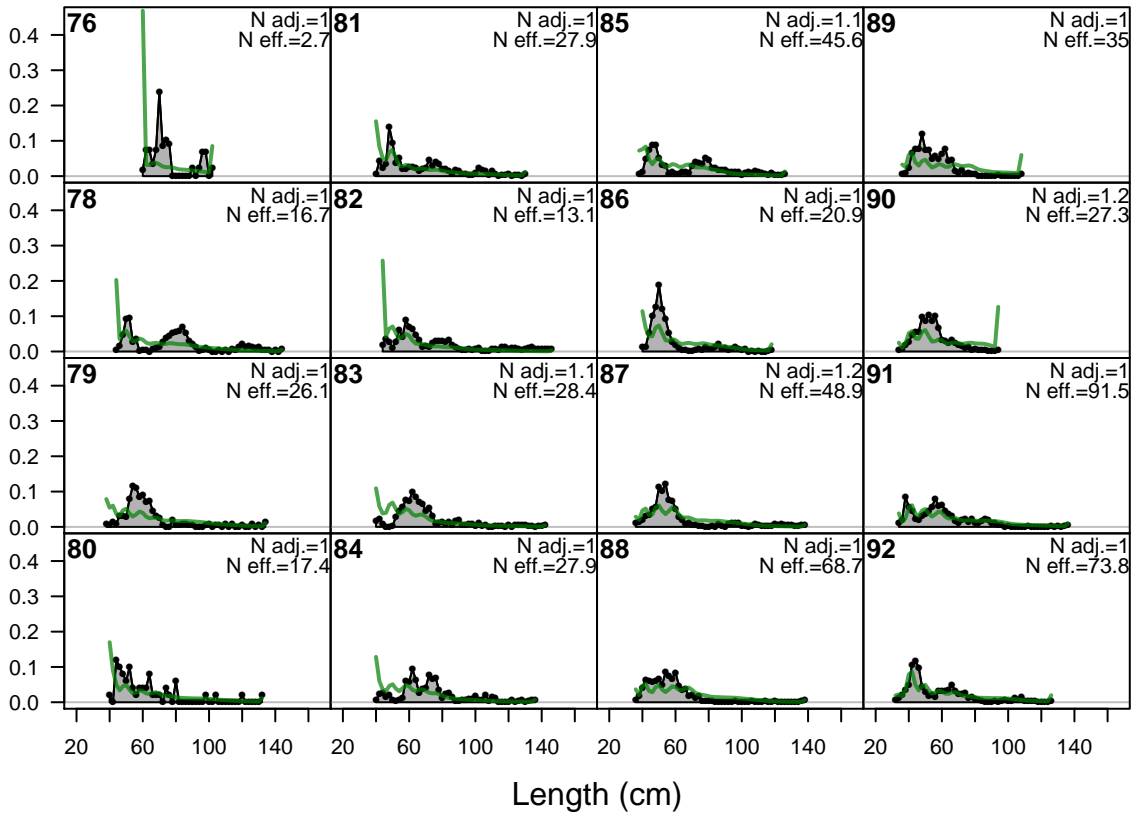
Proportion



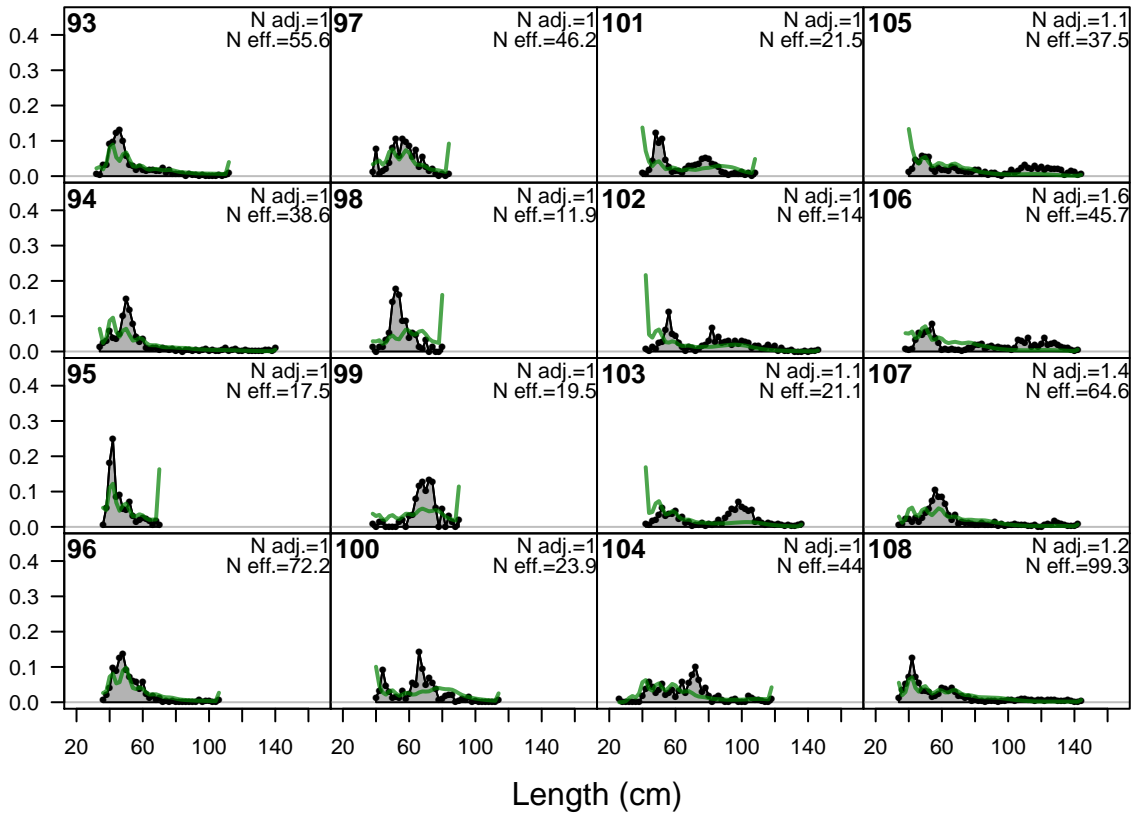


F1-*OBJ_early* (whole catch)

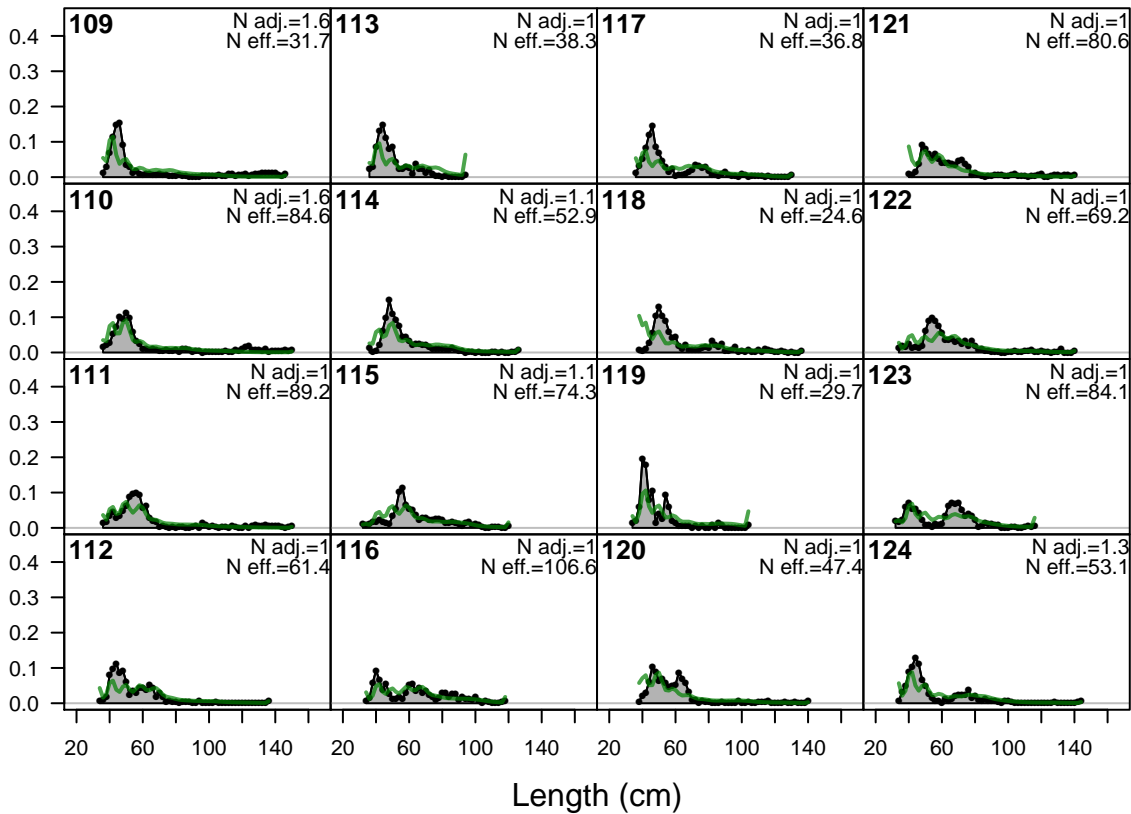
Proportion



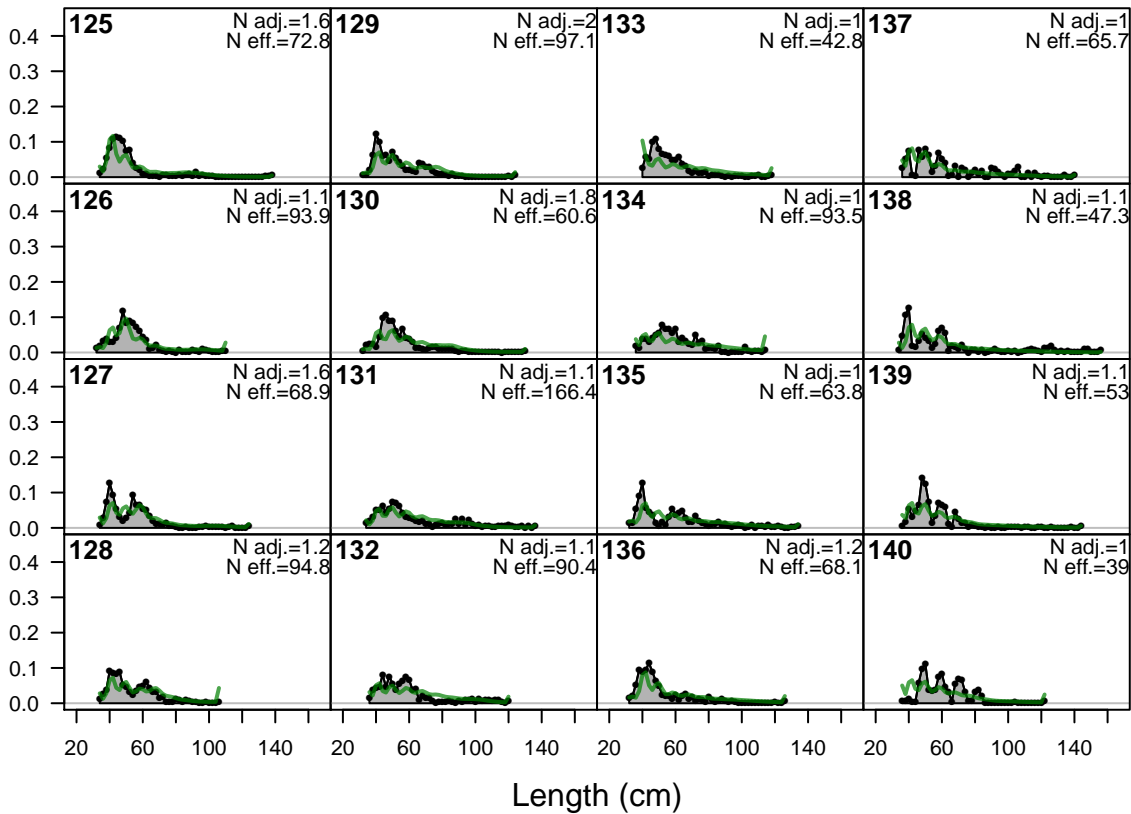
Proportion



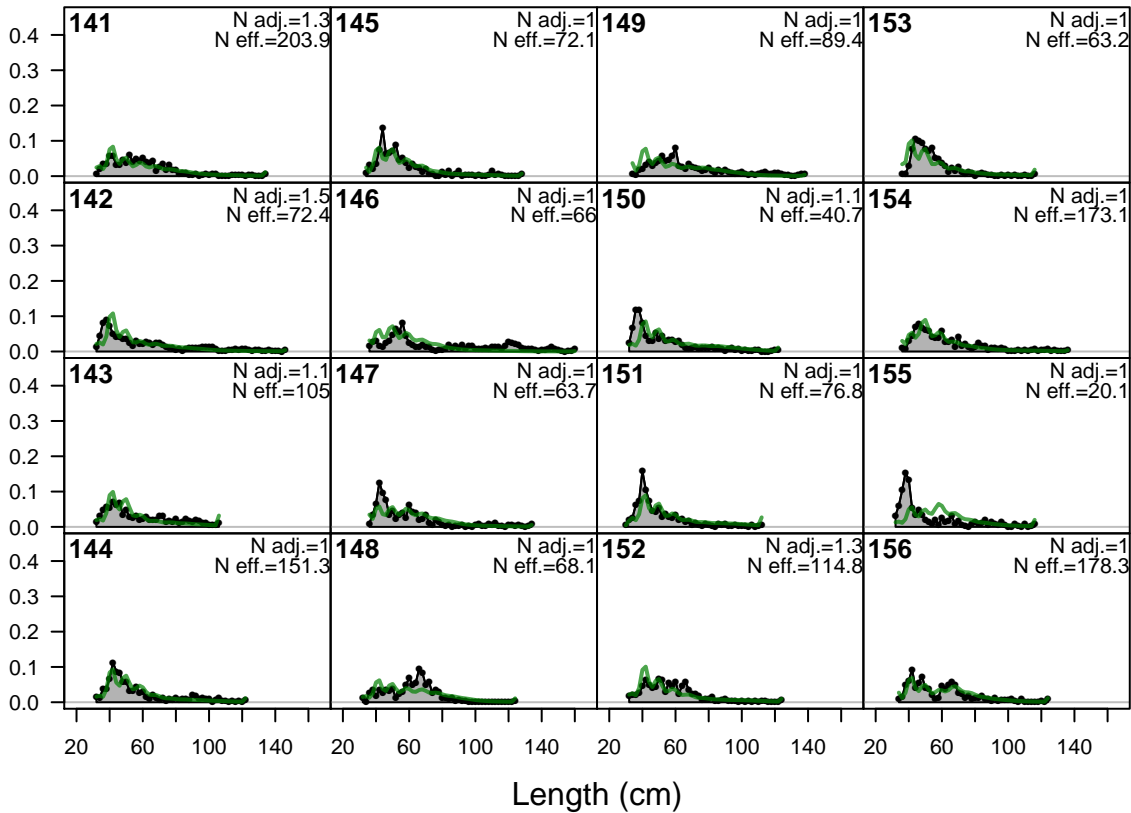
Proportion



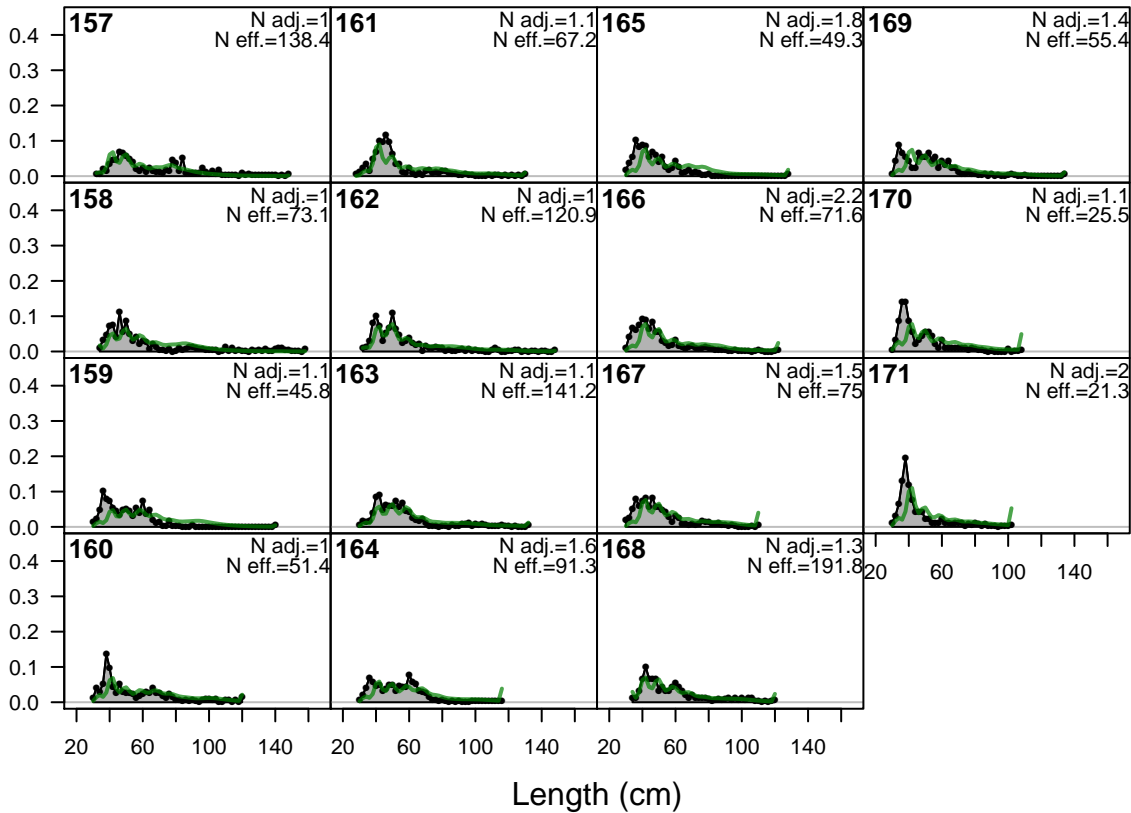
Proportion

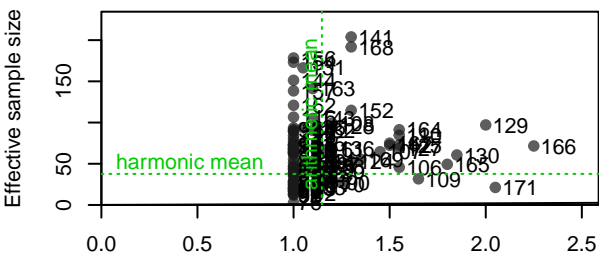
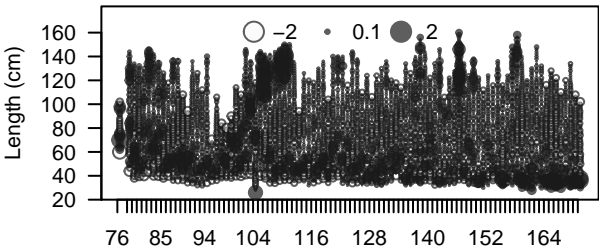


Proportion

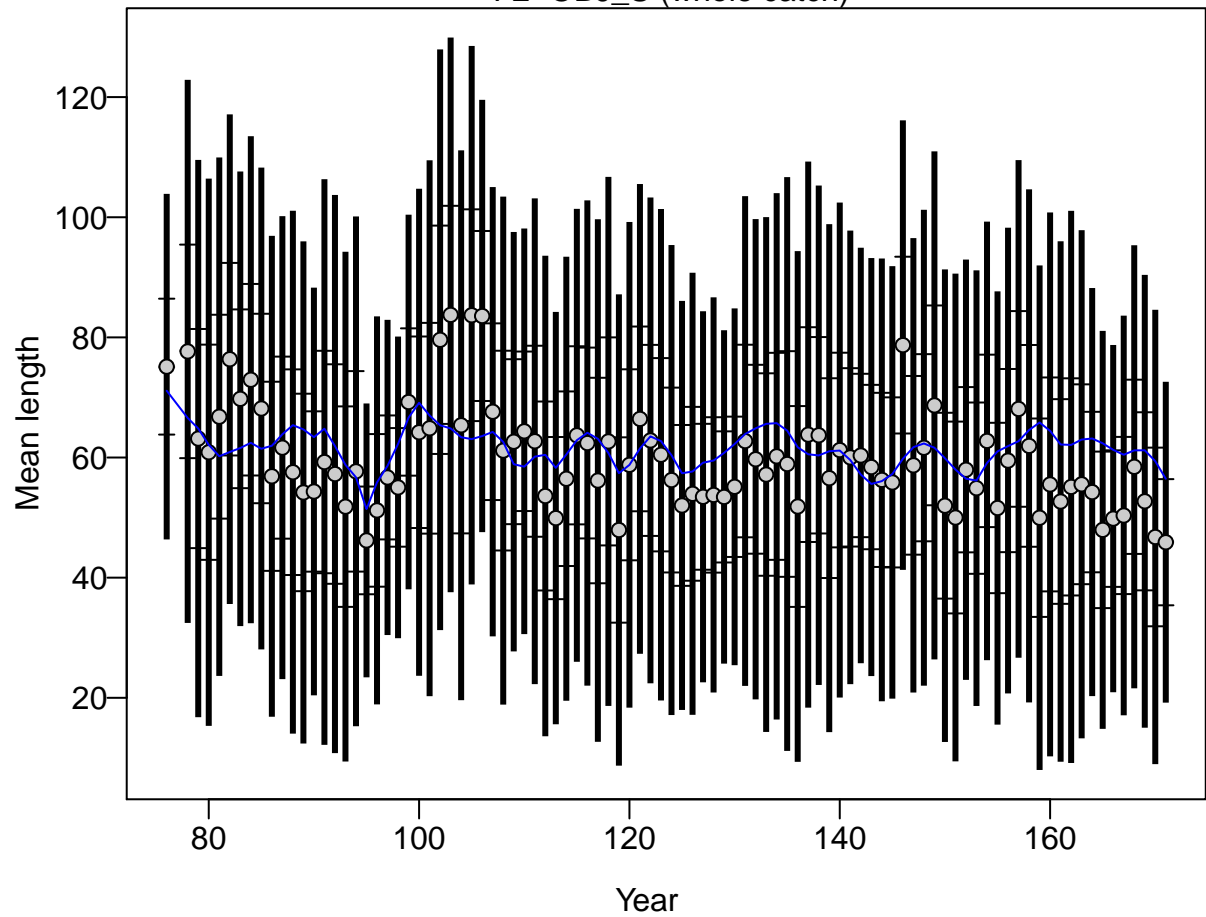


Proportion

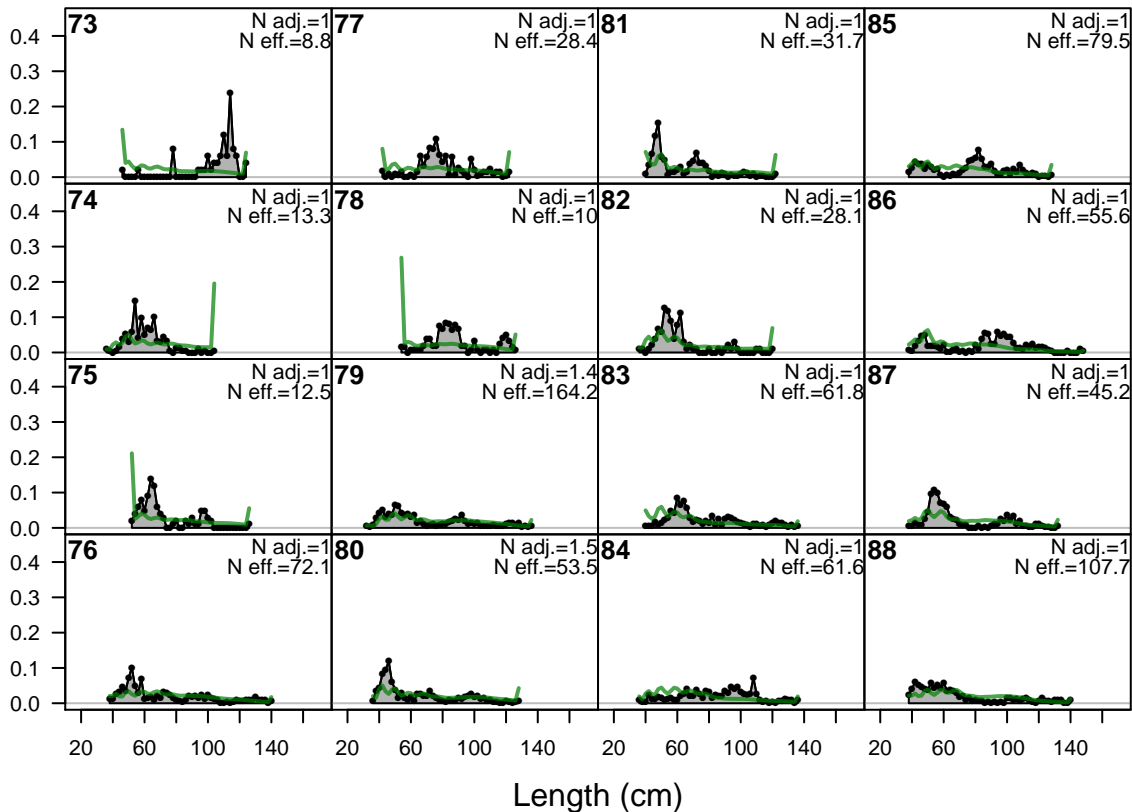




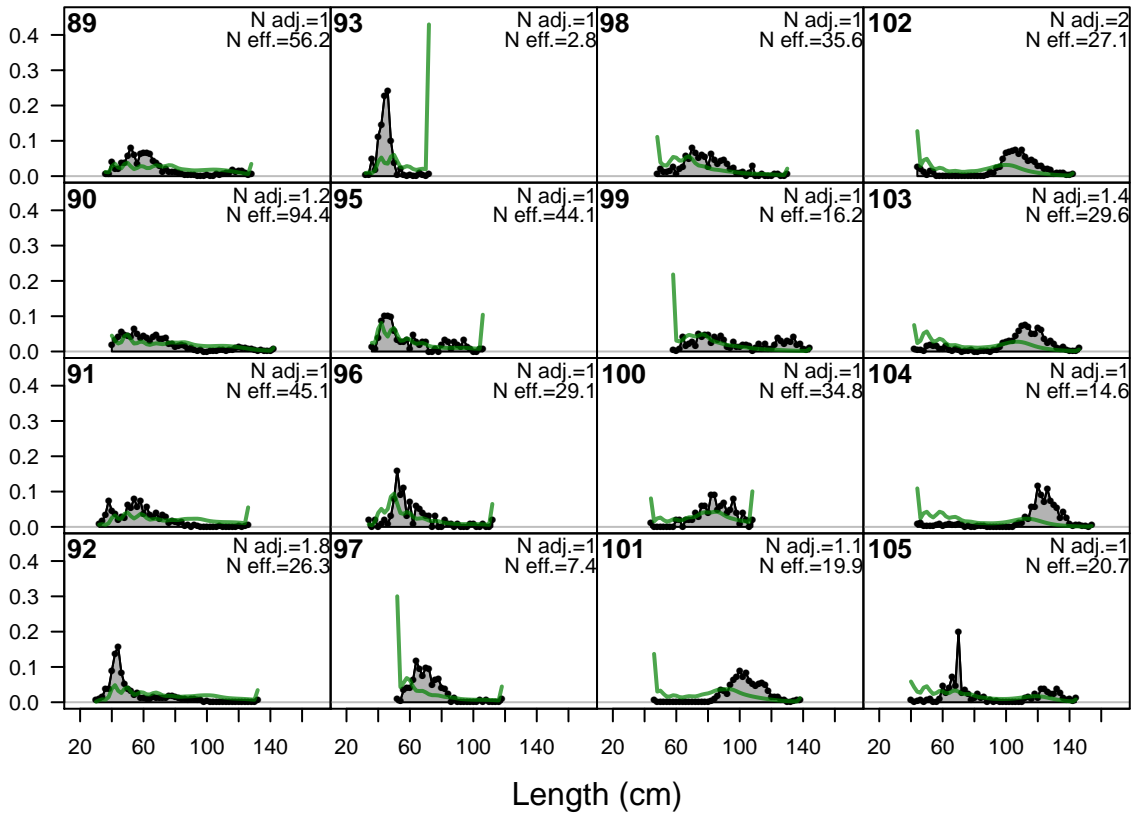
F2-OBJ_S (whole catch)



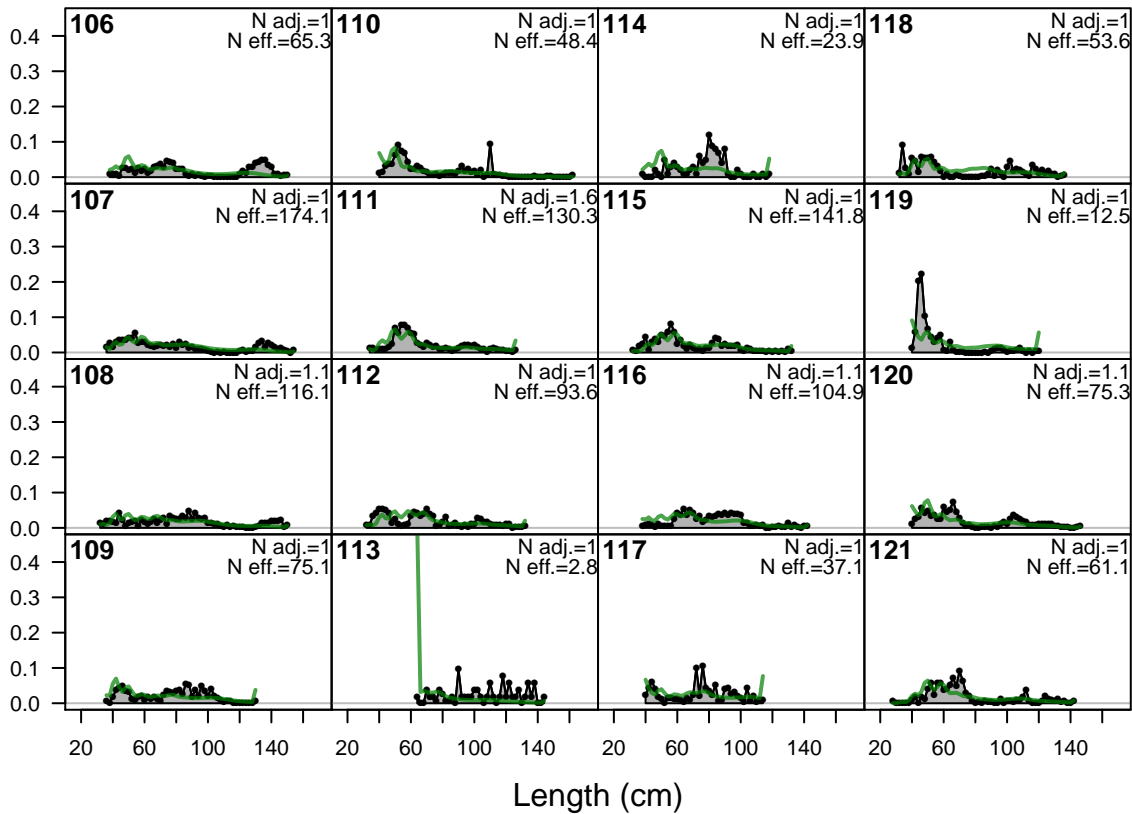
Proportion



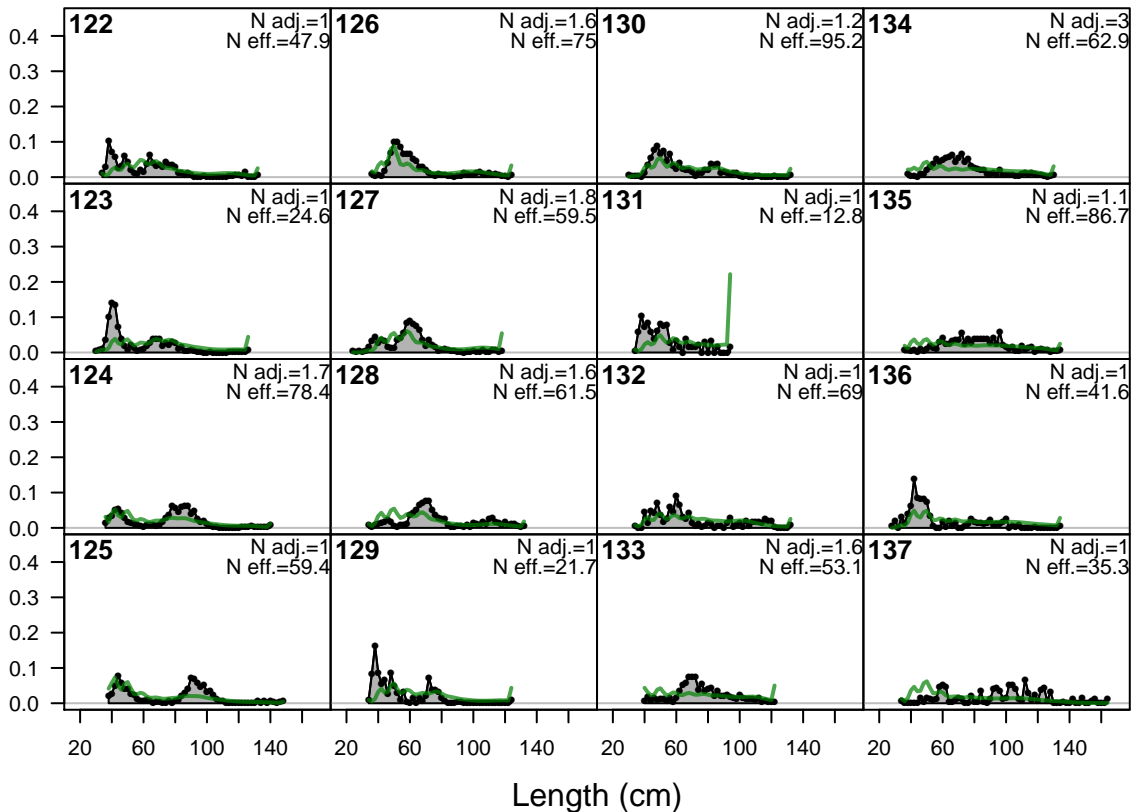
Proportion



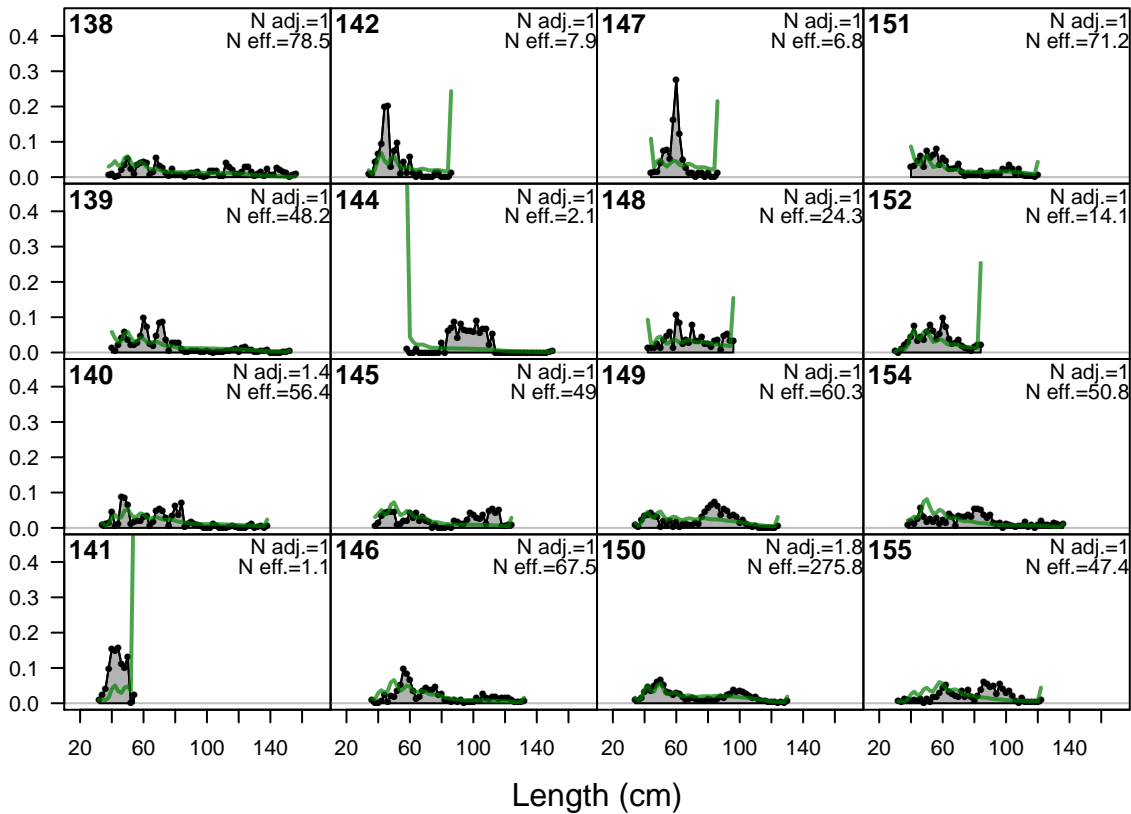
Proportion



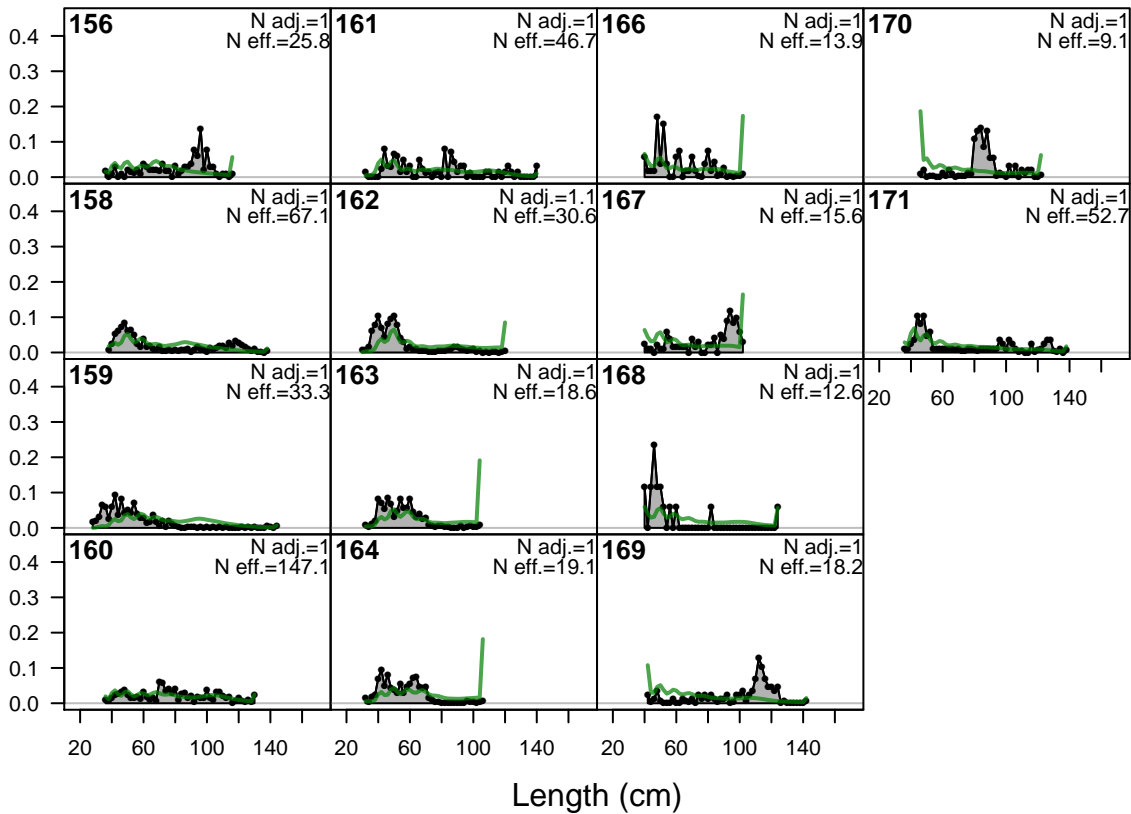
Proportion

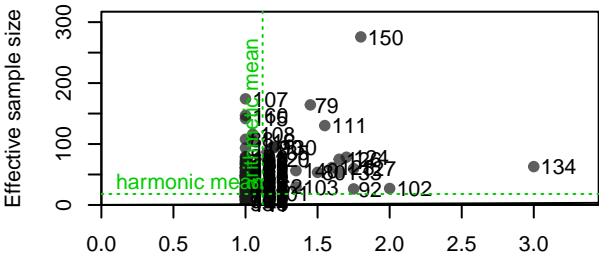
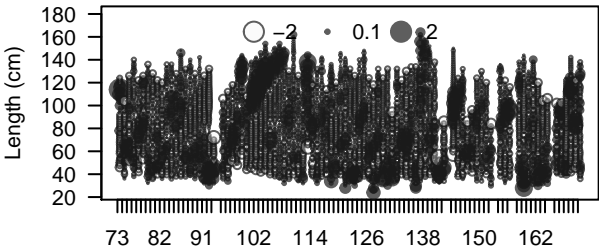


Proportion

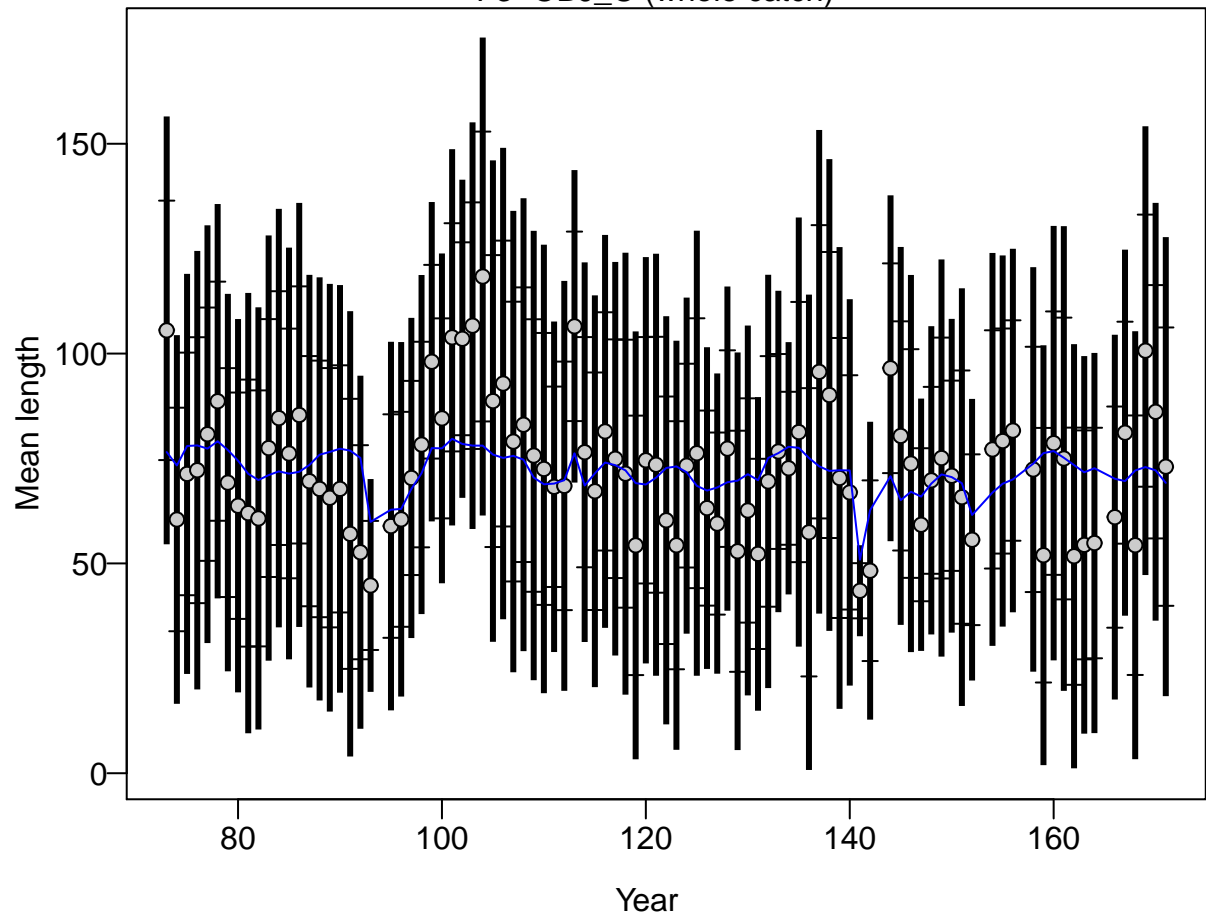


Proportion

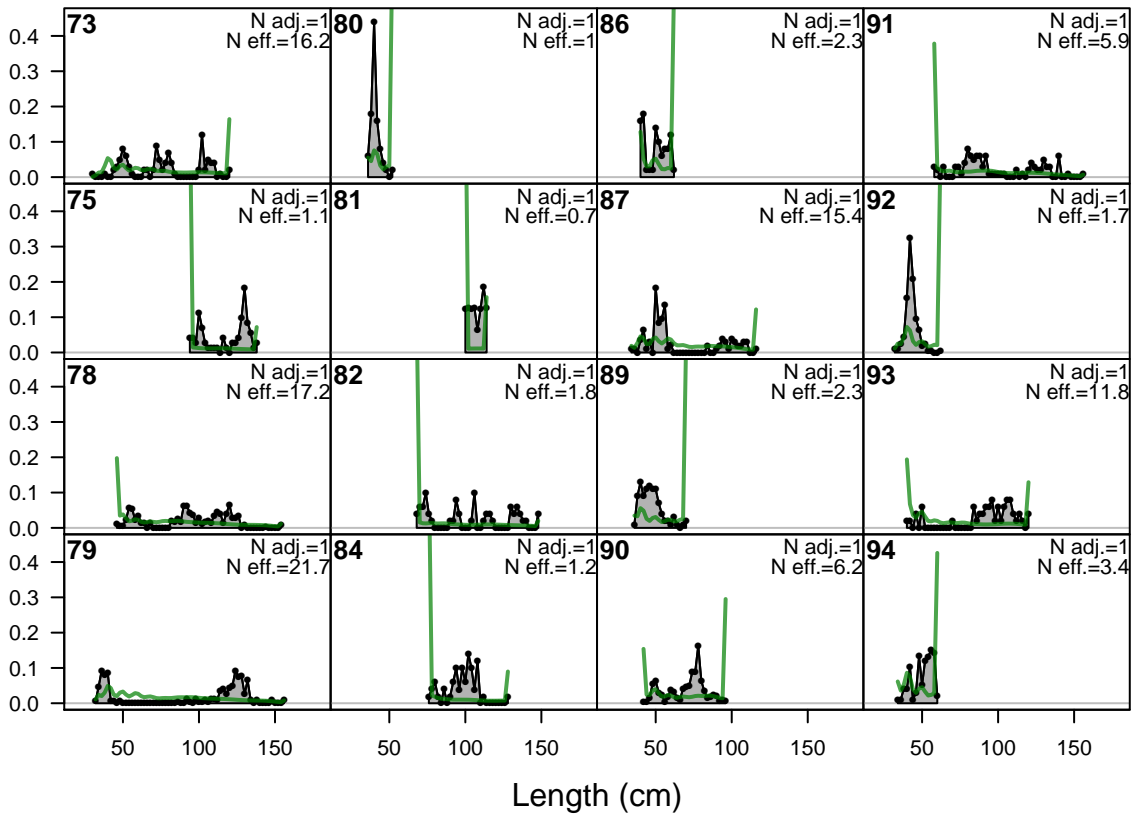




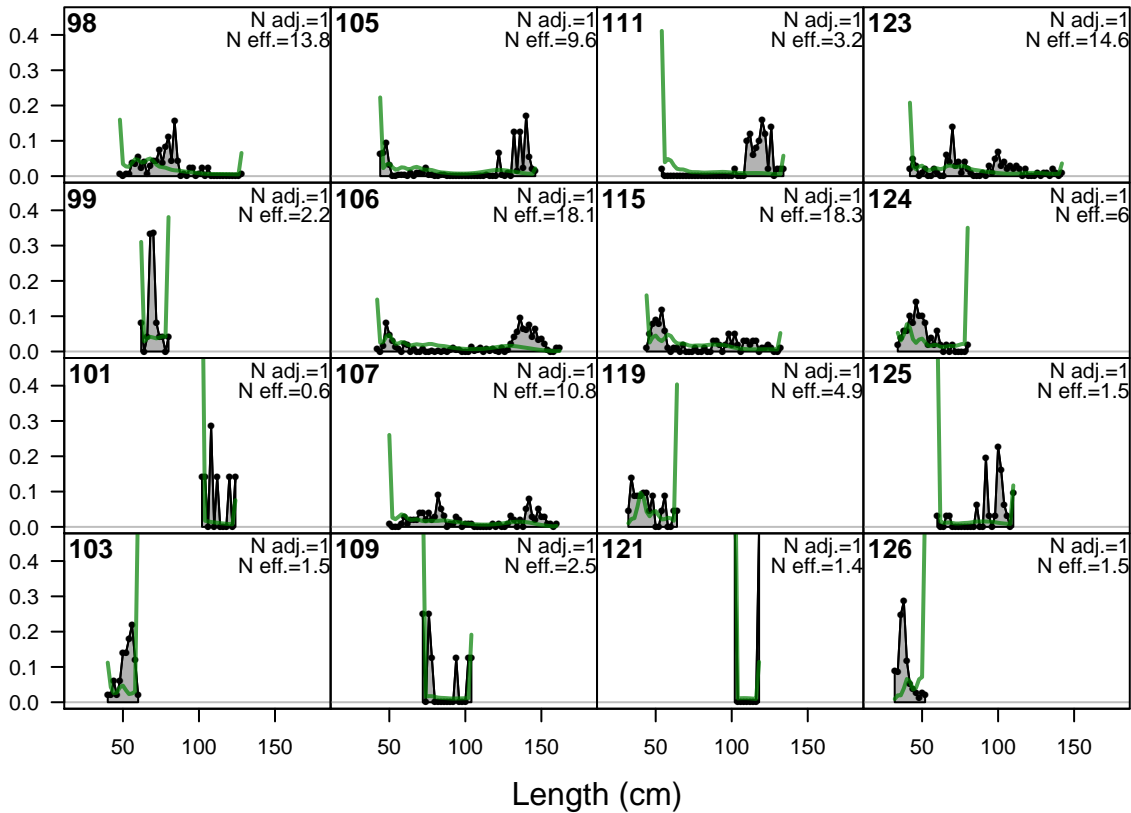
F3-OBJ_C (whole catch)

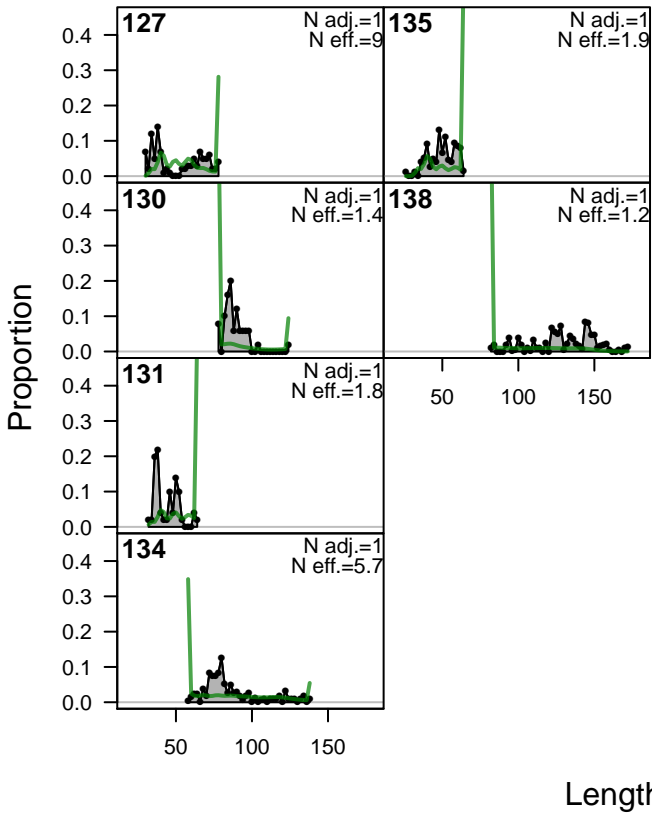


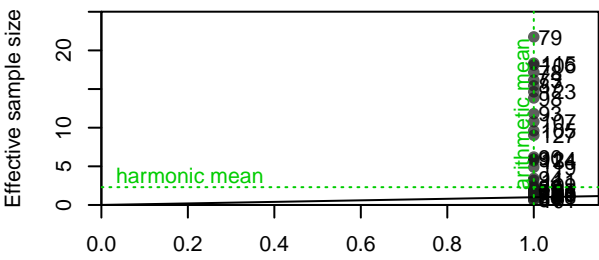
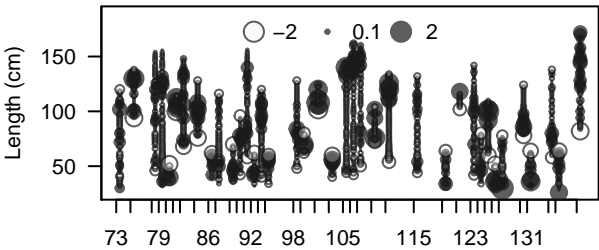
Proportion



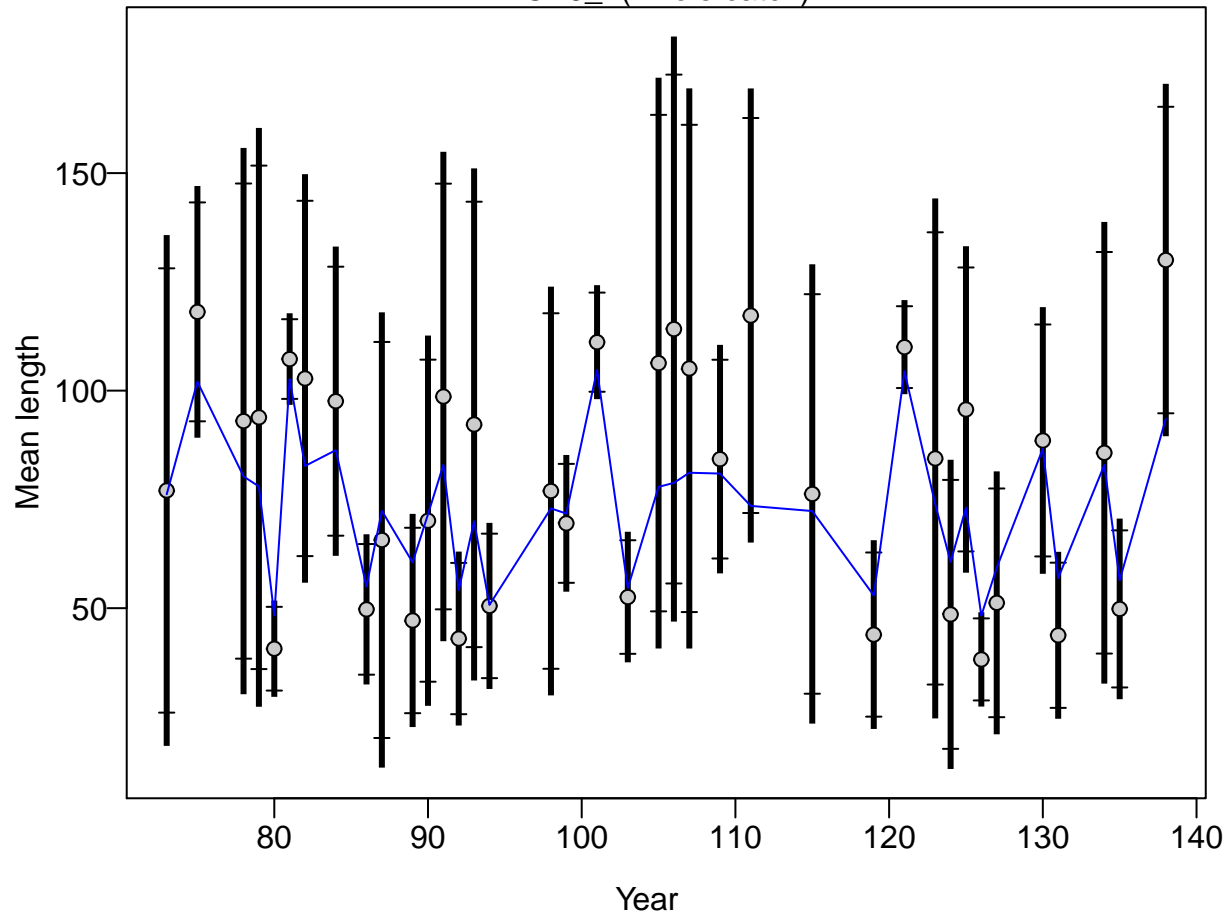
Proportion



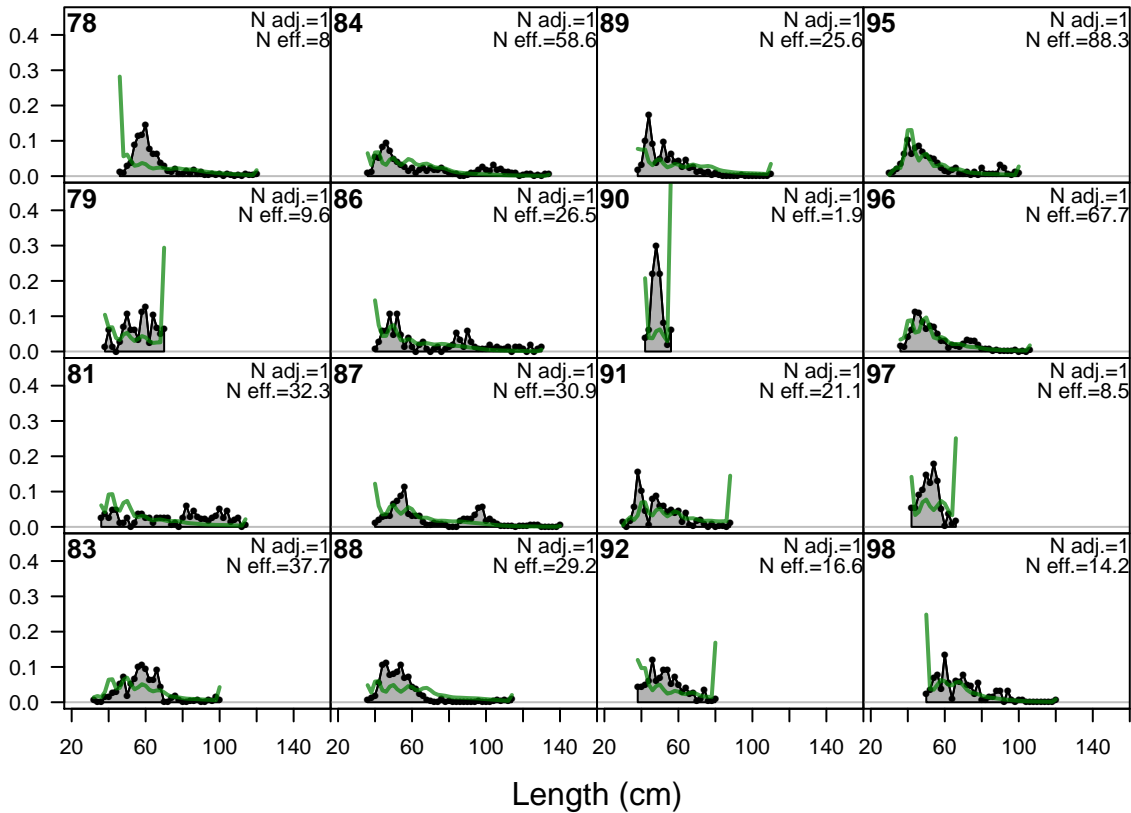




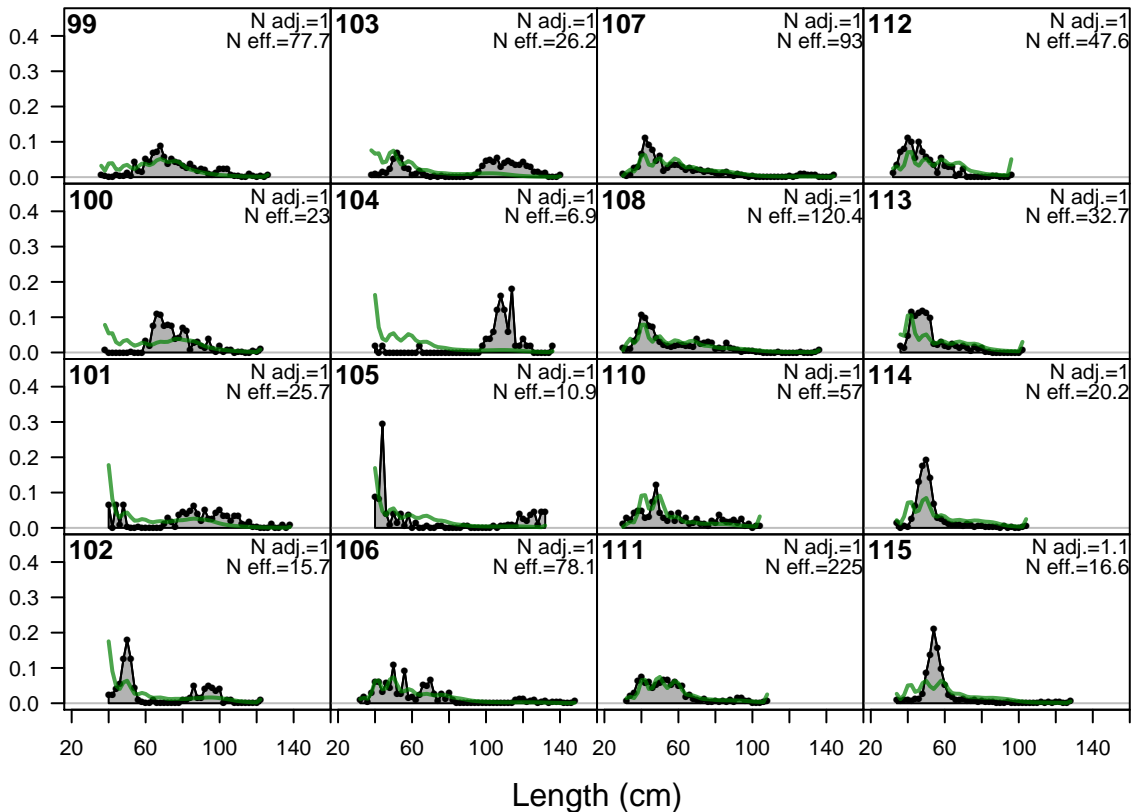
F4-OBJ_I (whole catch)



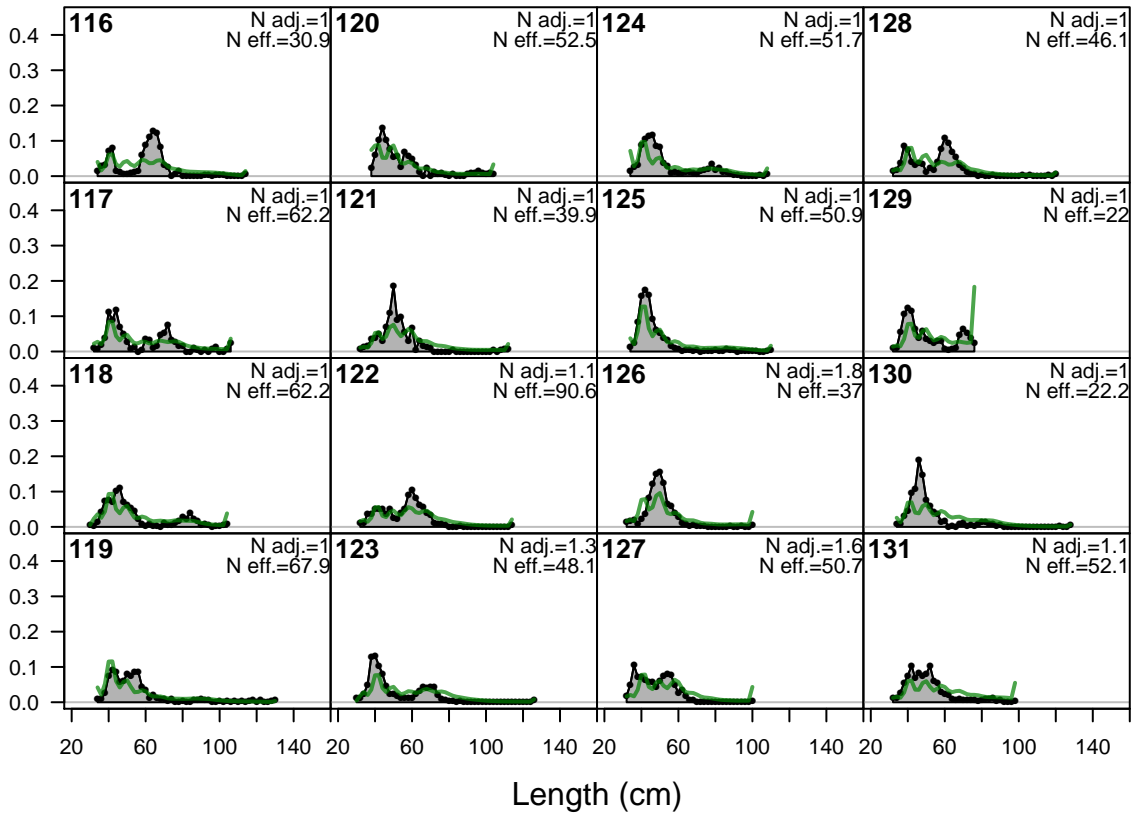
Proportion



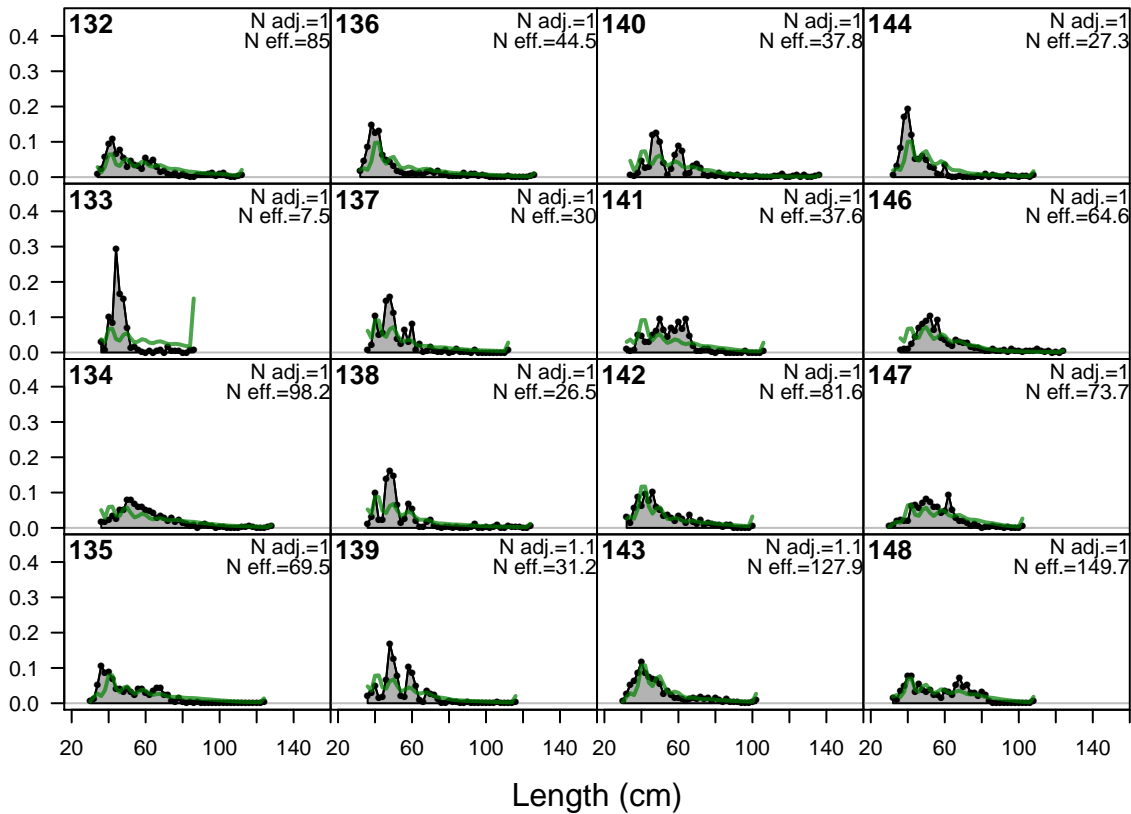
Proportion



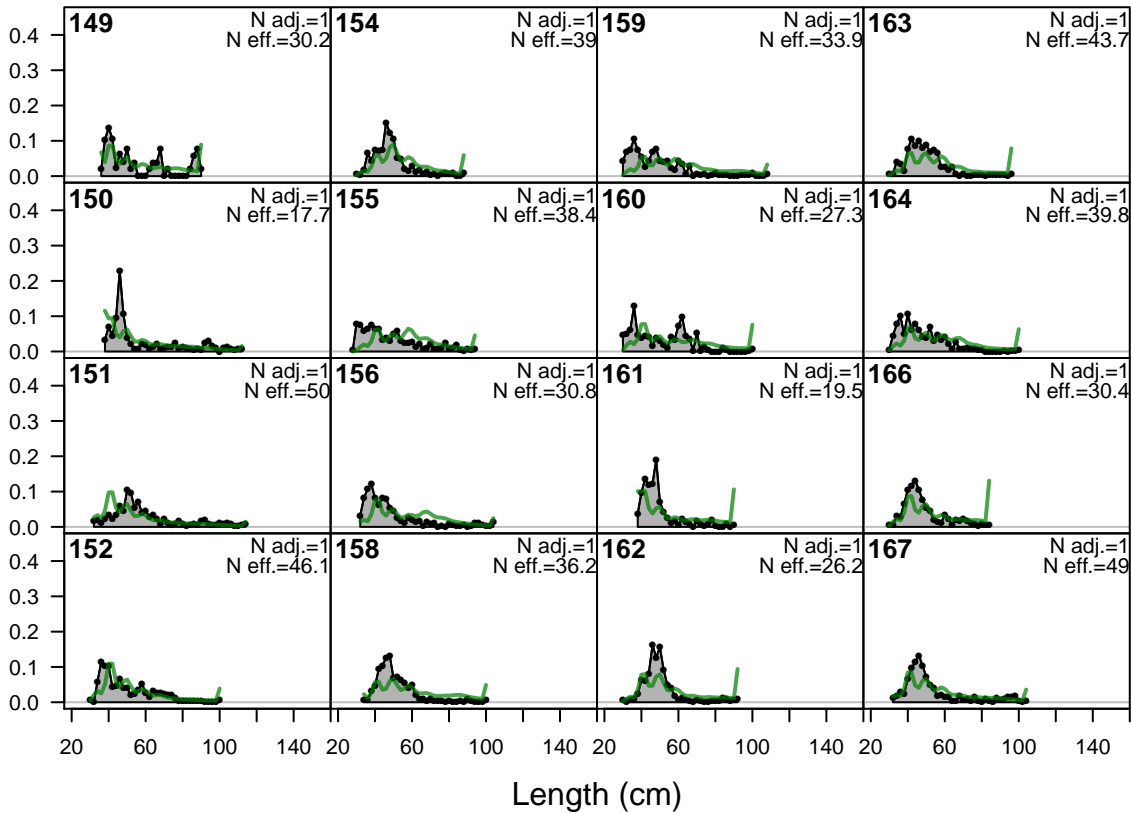
Proportion



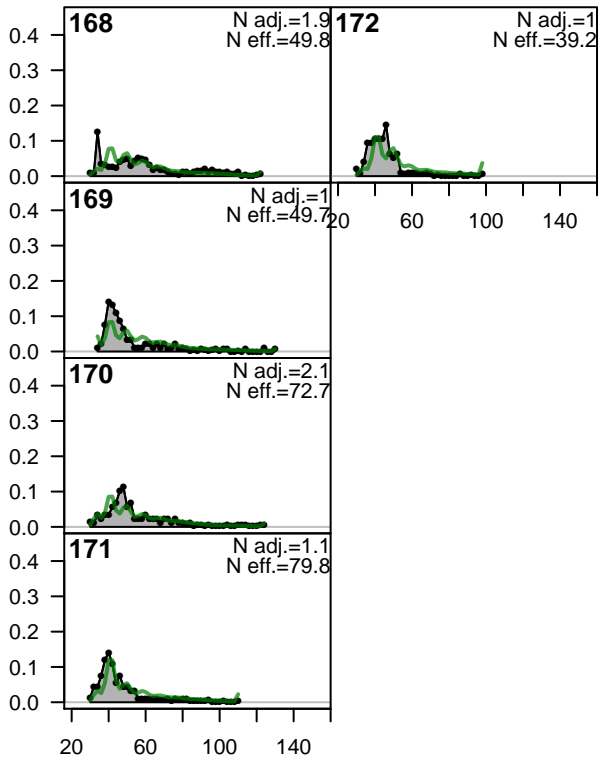
Proportion



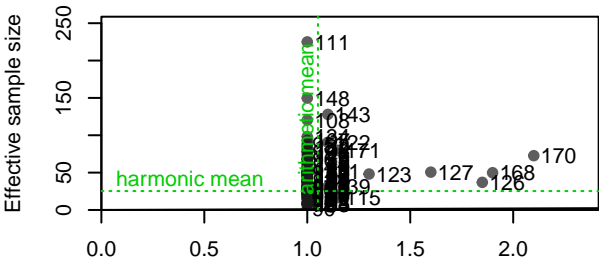
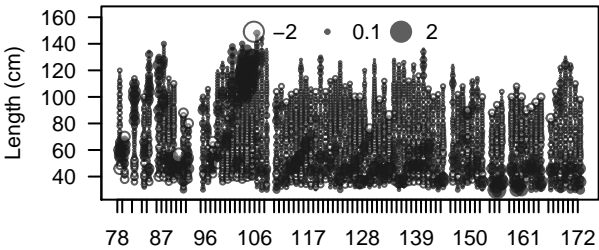
Proportion



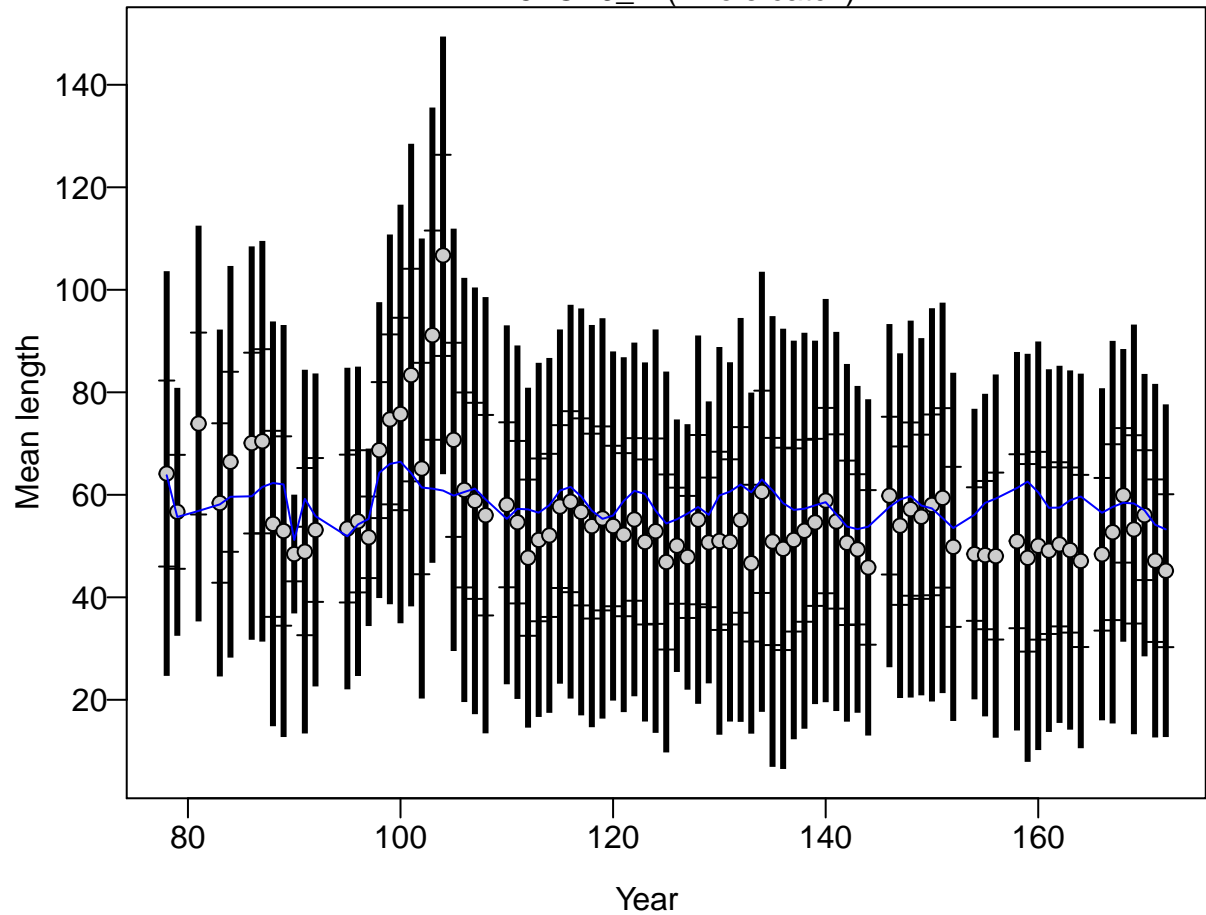
Proportion



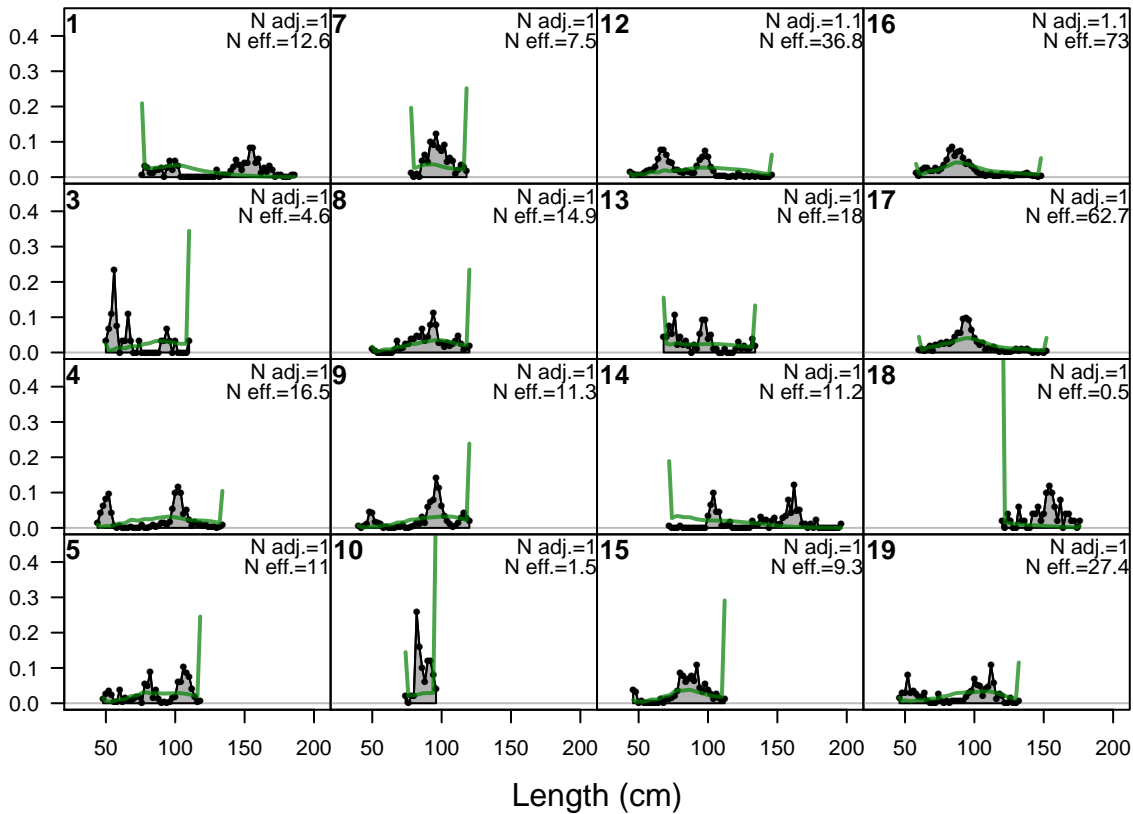
Length (cm)



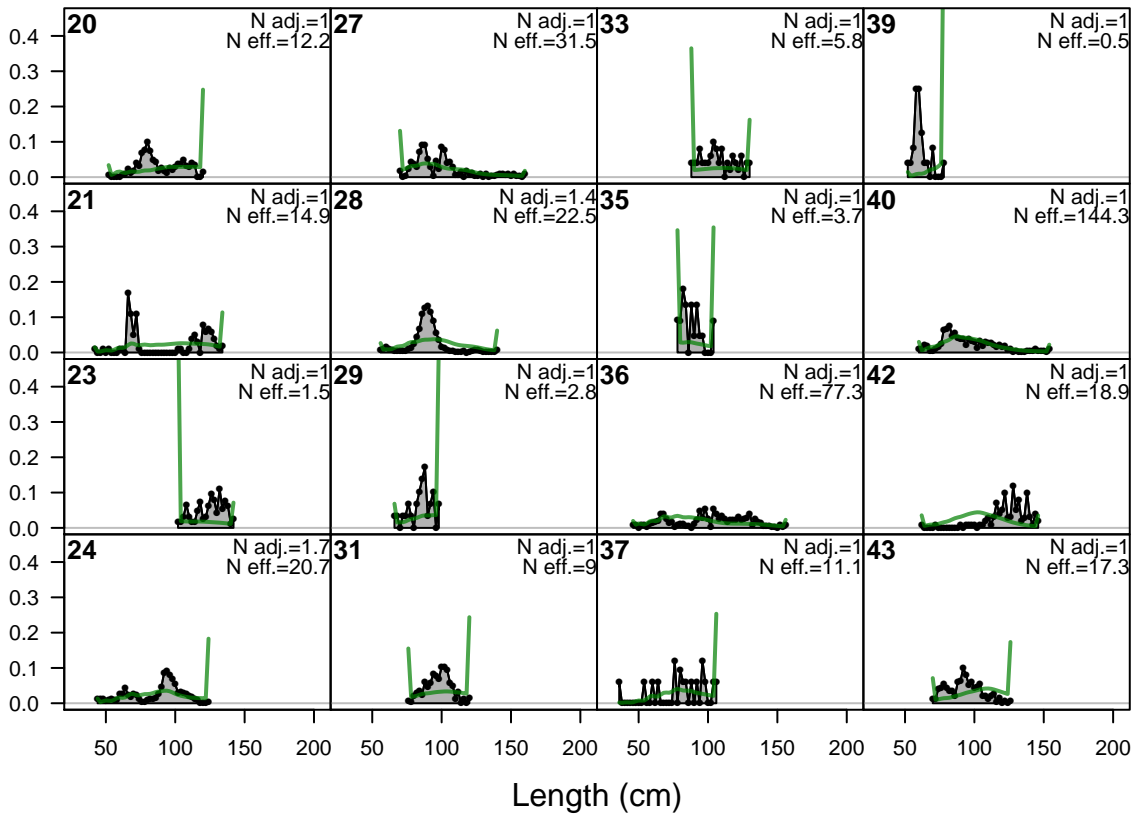
F5-Obj_N (whole catch)



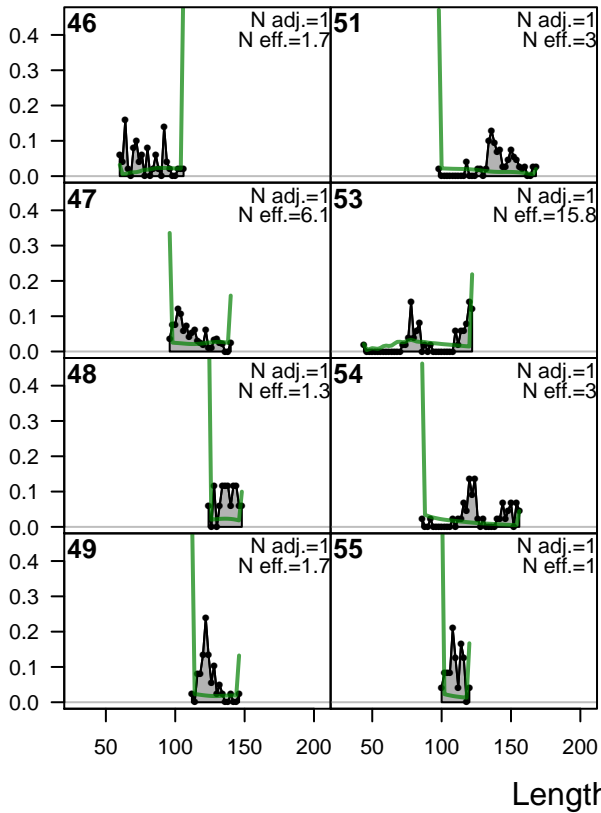
Proportion

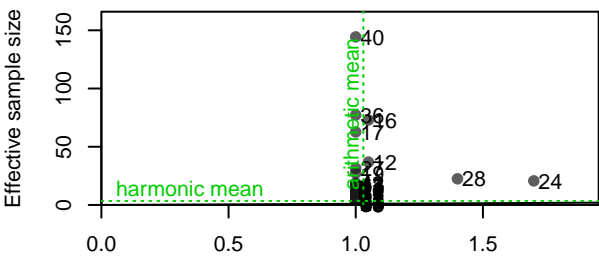
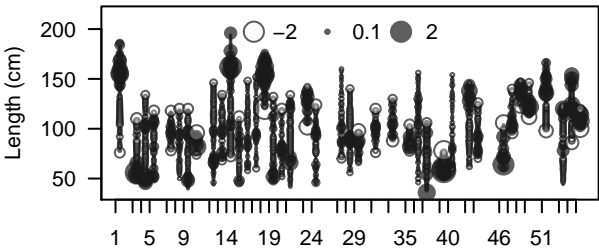


Proportion

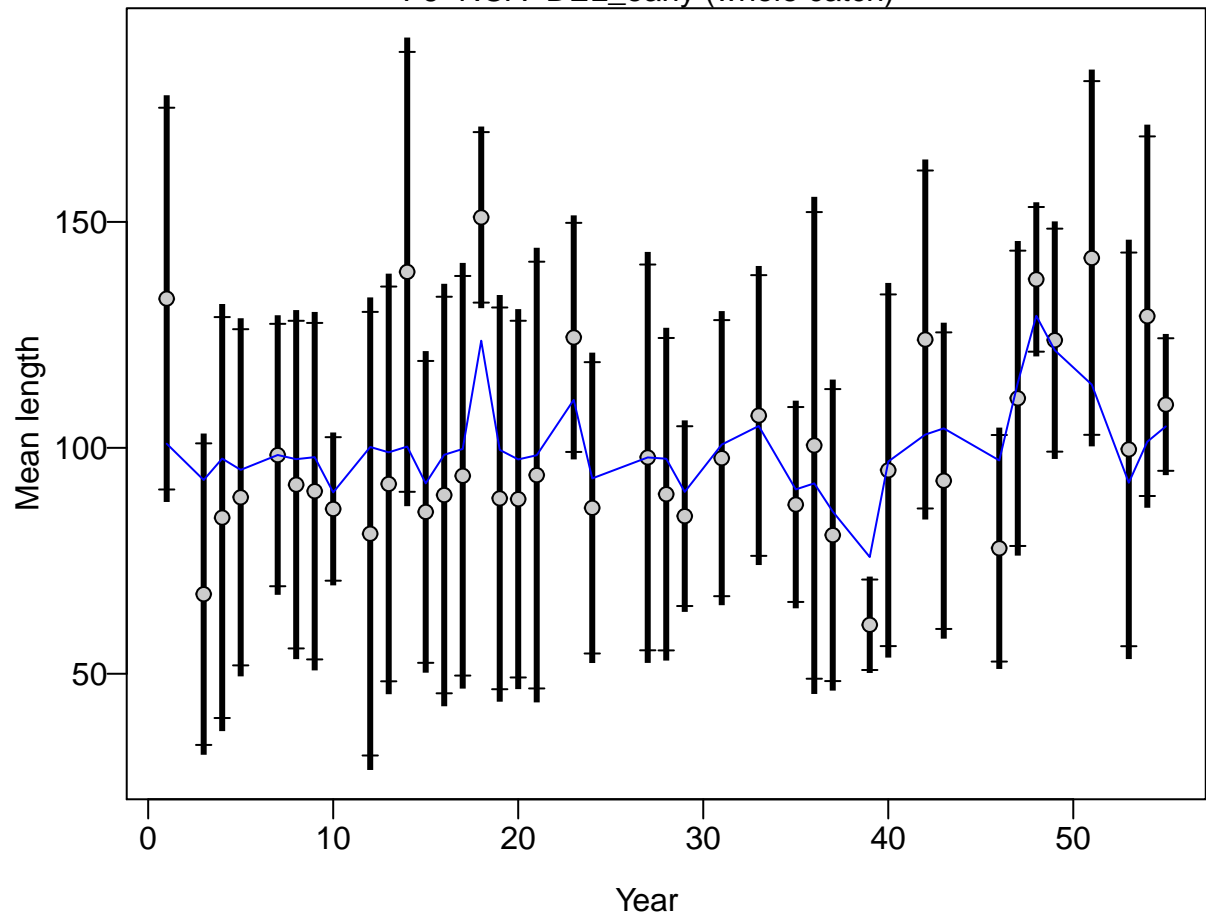


Proportion

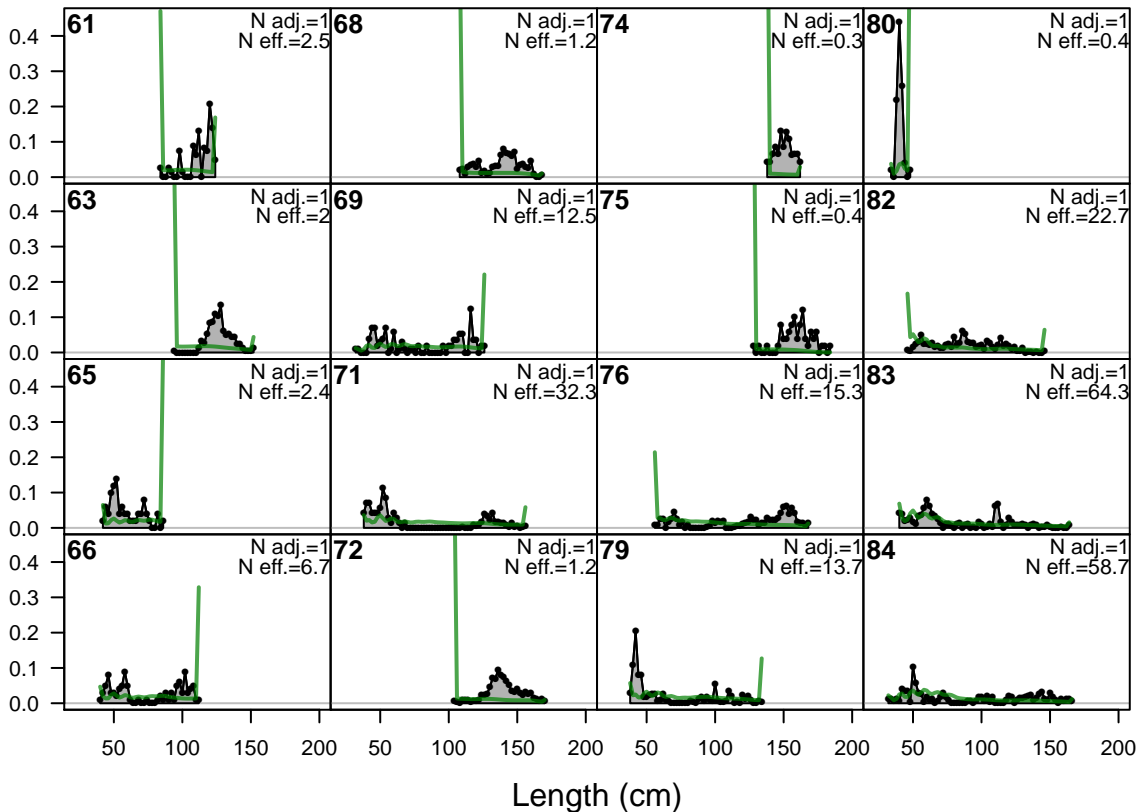




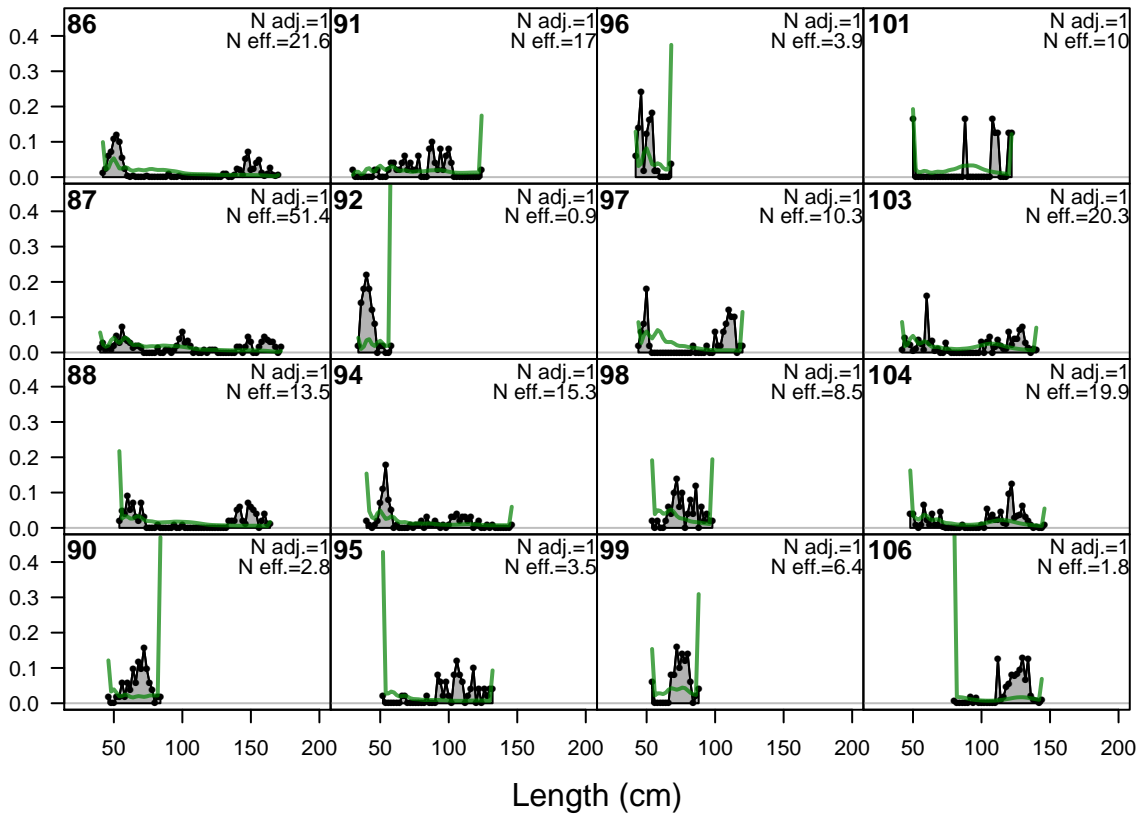
F6-NOA-DEL_early (whole catch)



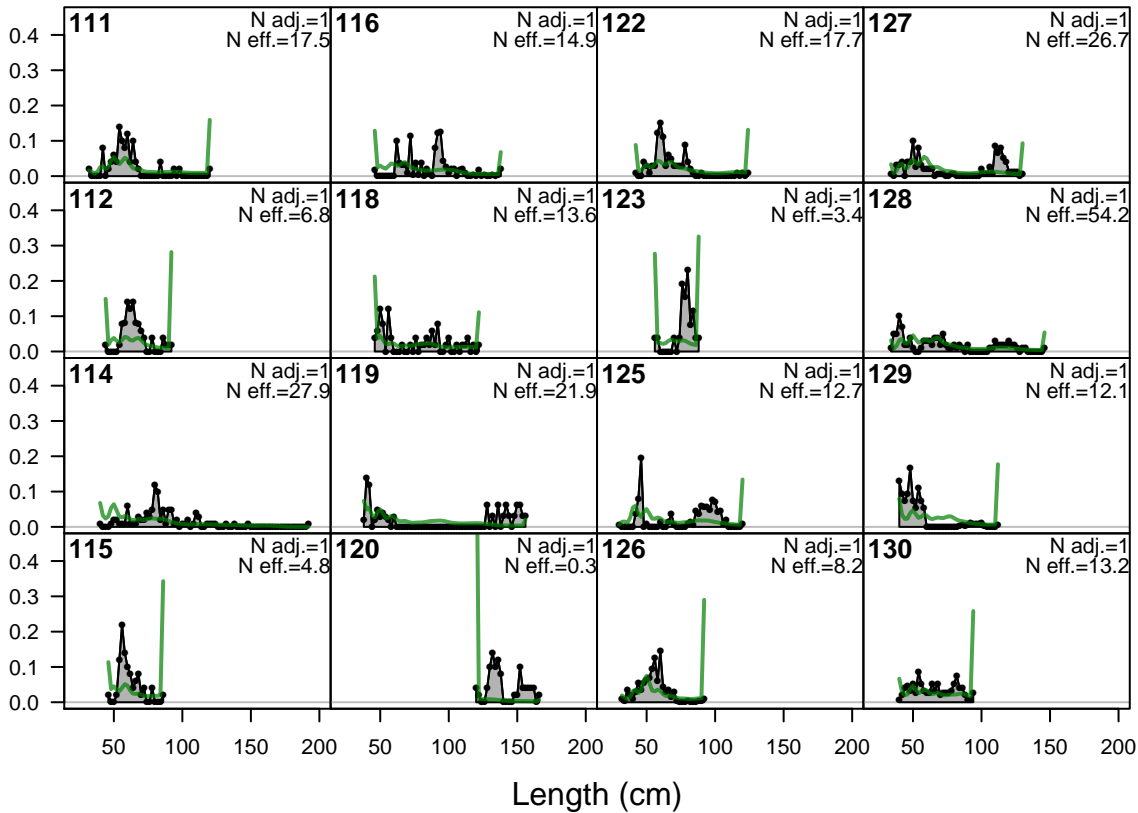
Proportion



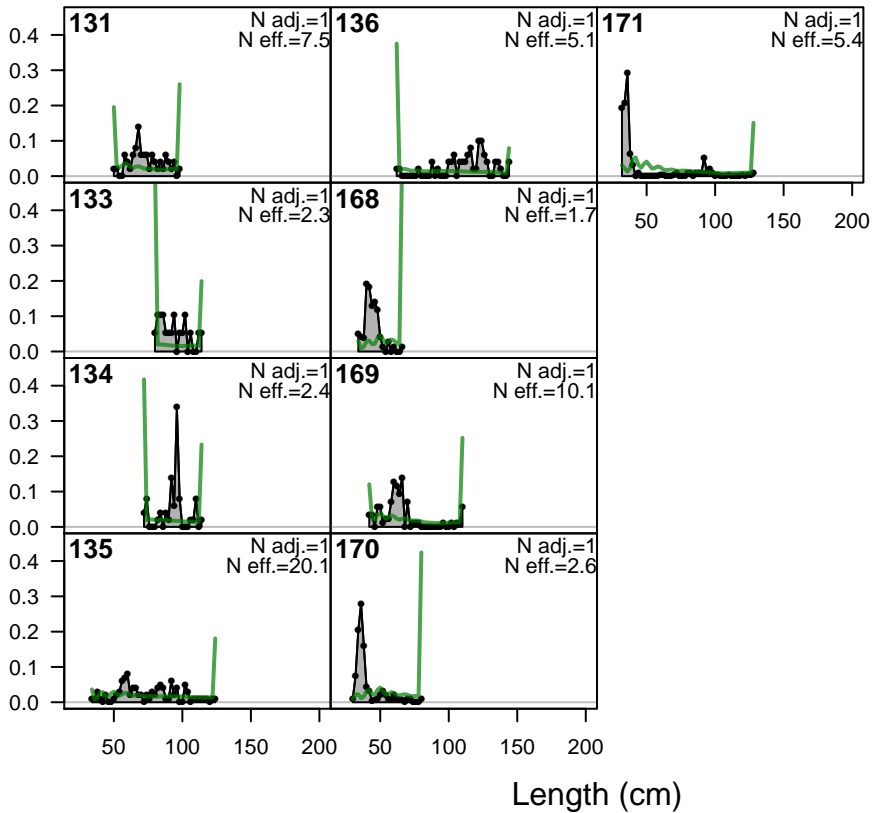
Proportion

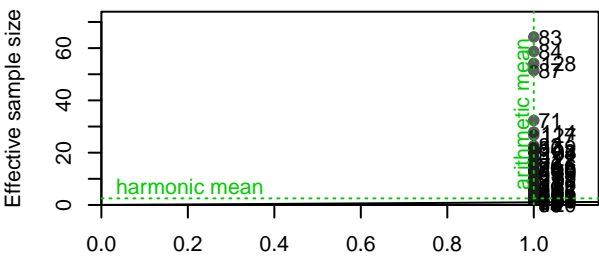
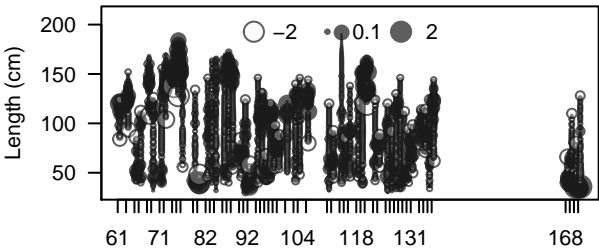


Proportion

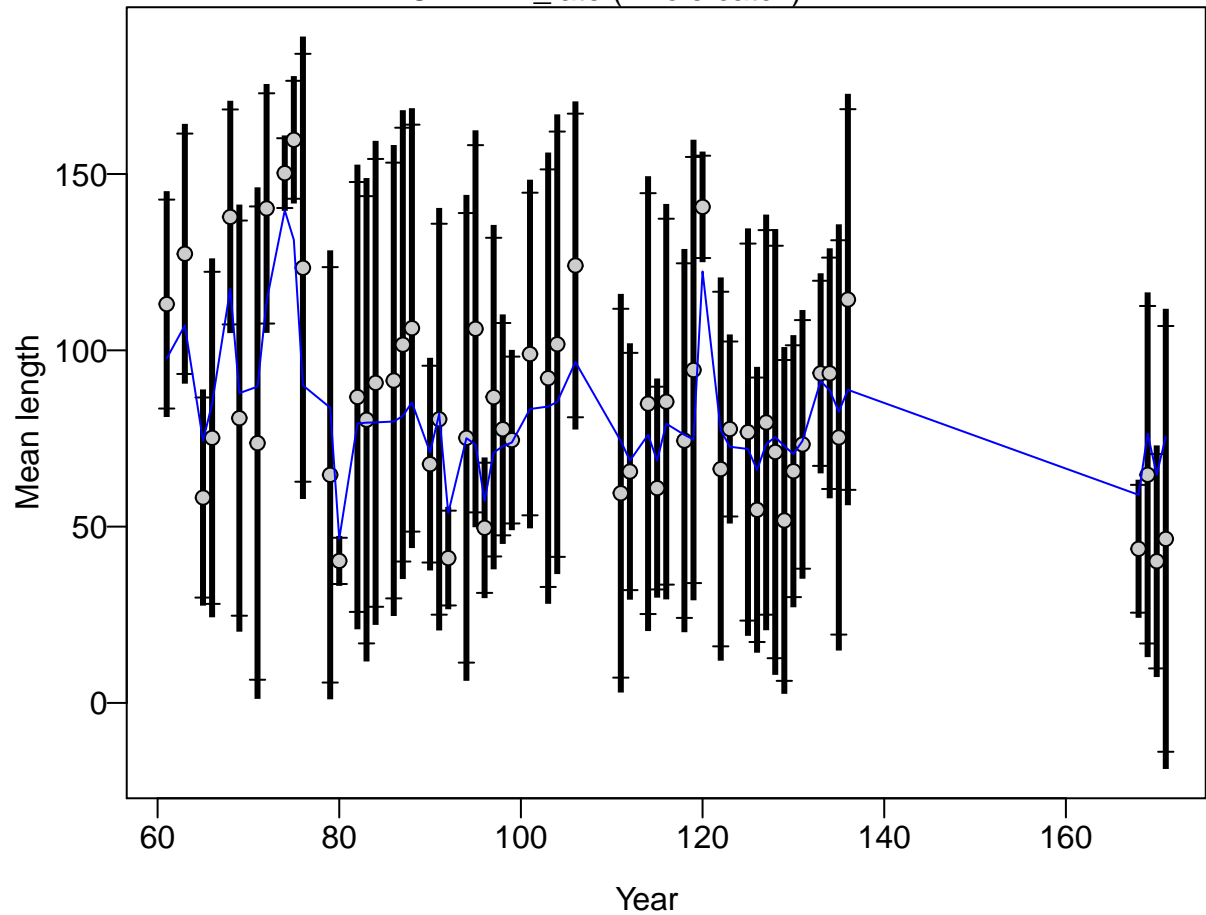


Proportion

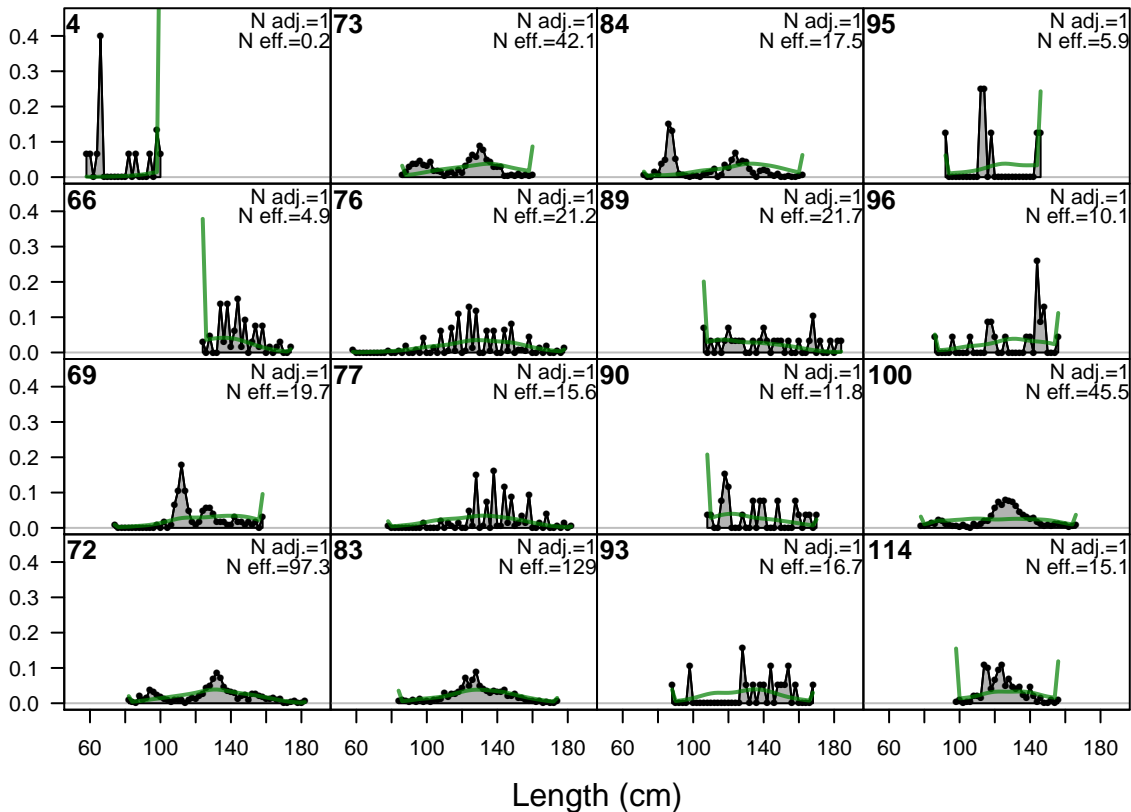




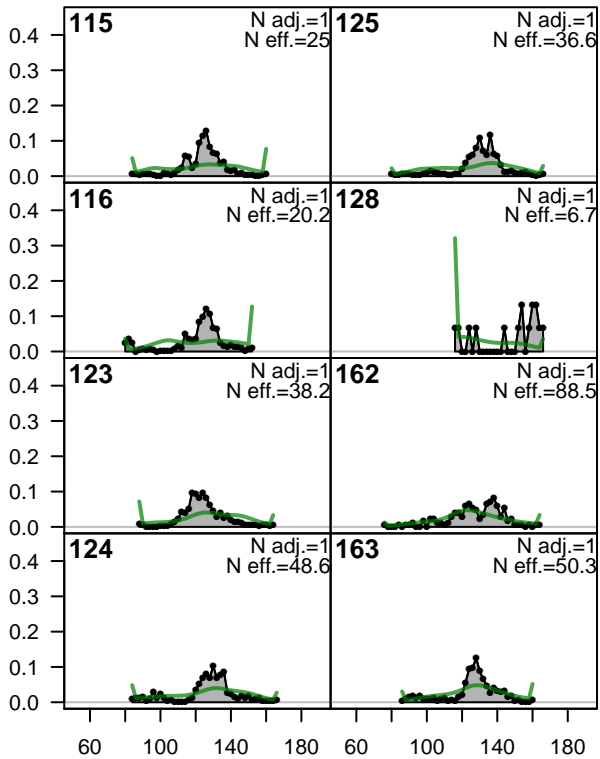
F7-NOA-DEL_late (whole catch)



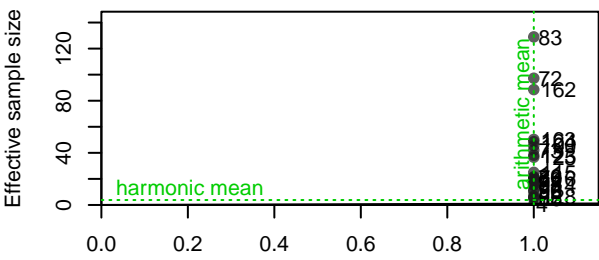
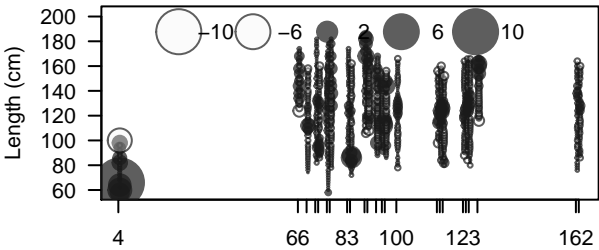
Proportion



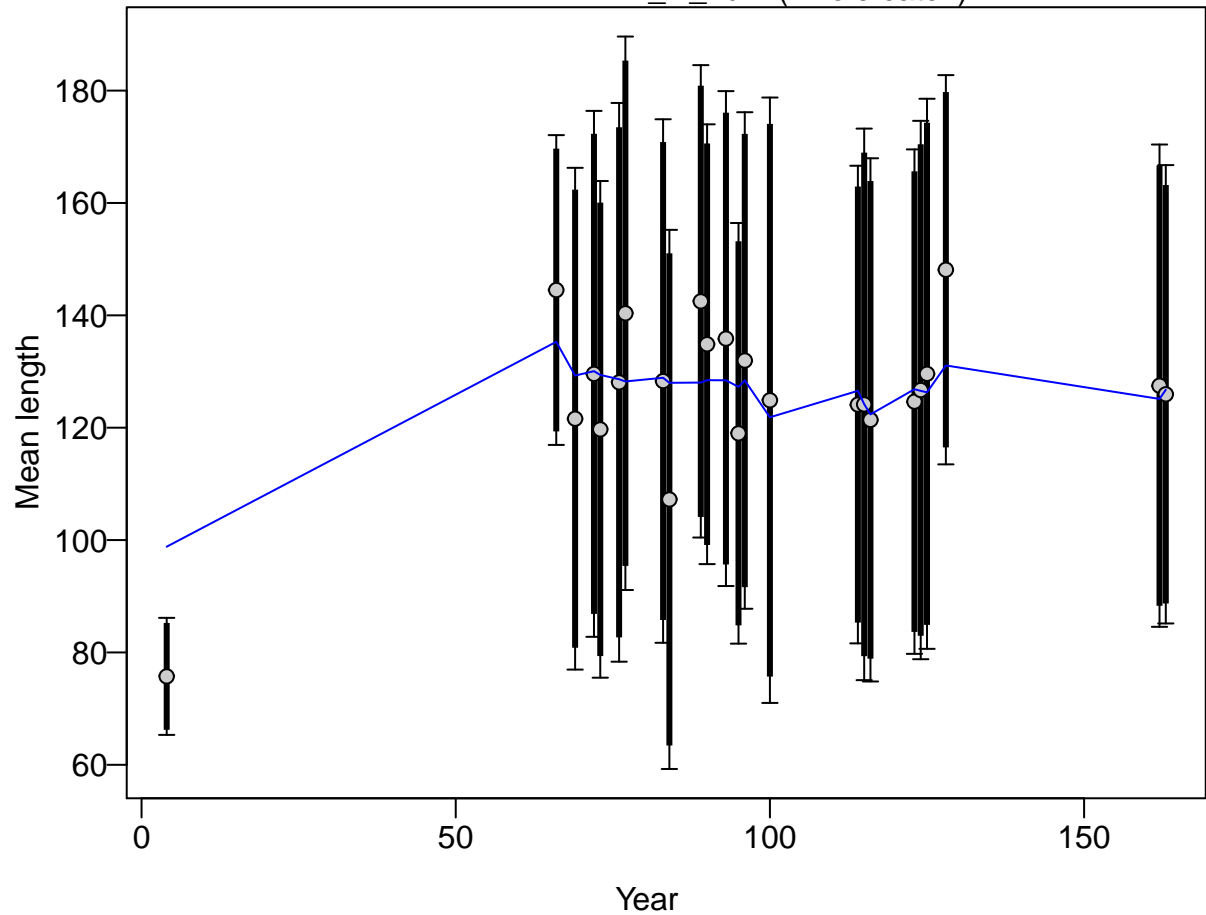
Proportion



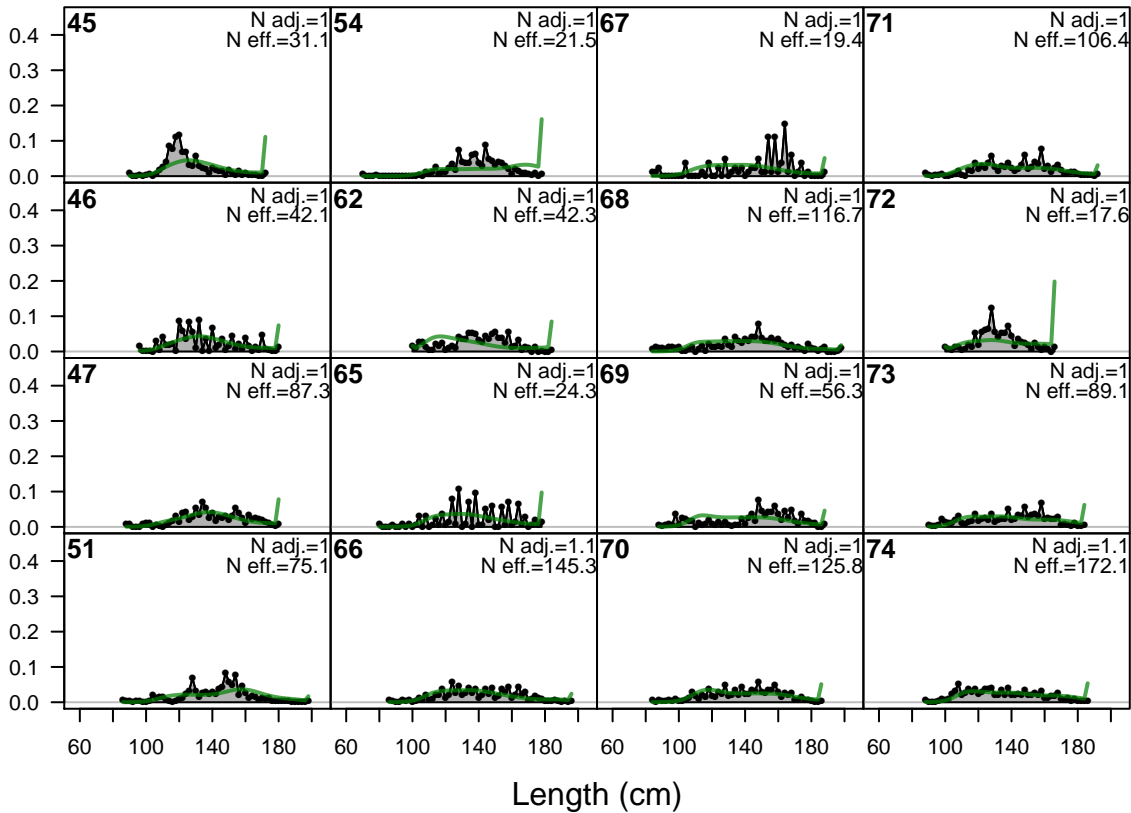
Length (cm)



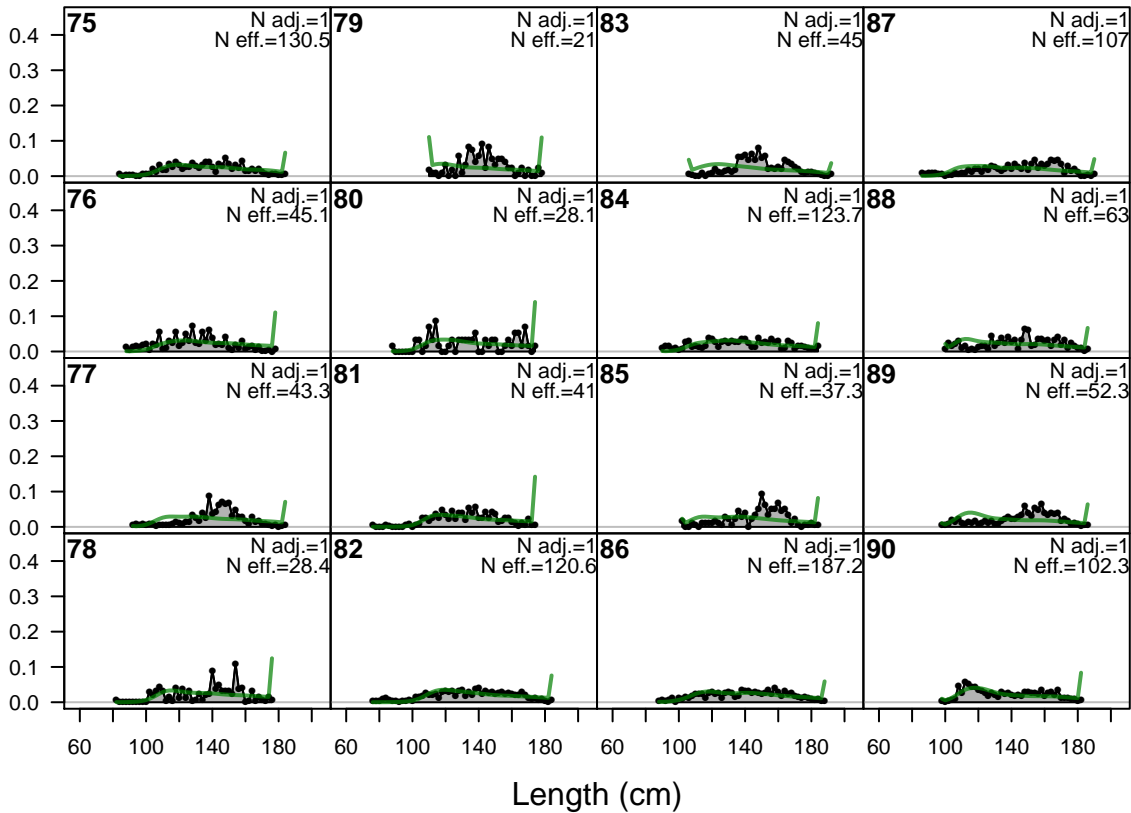
F12-LL_N_num (whole catch)



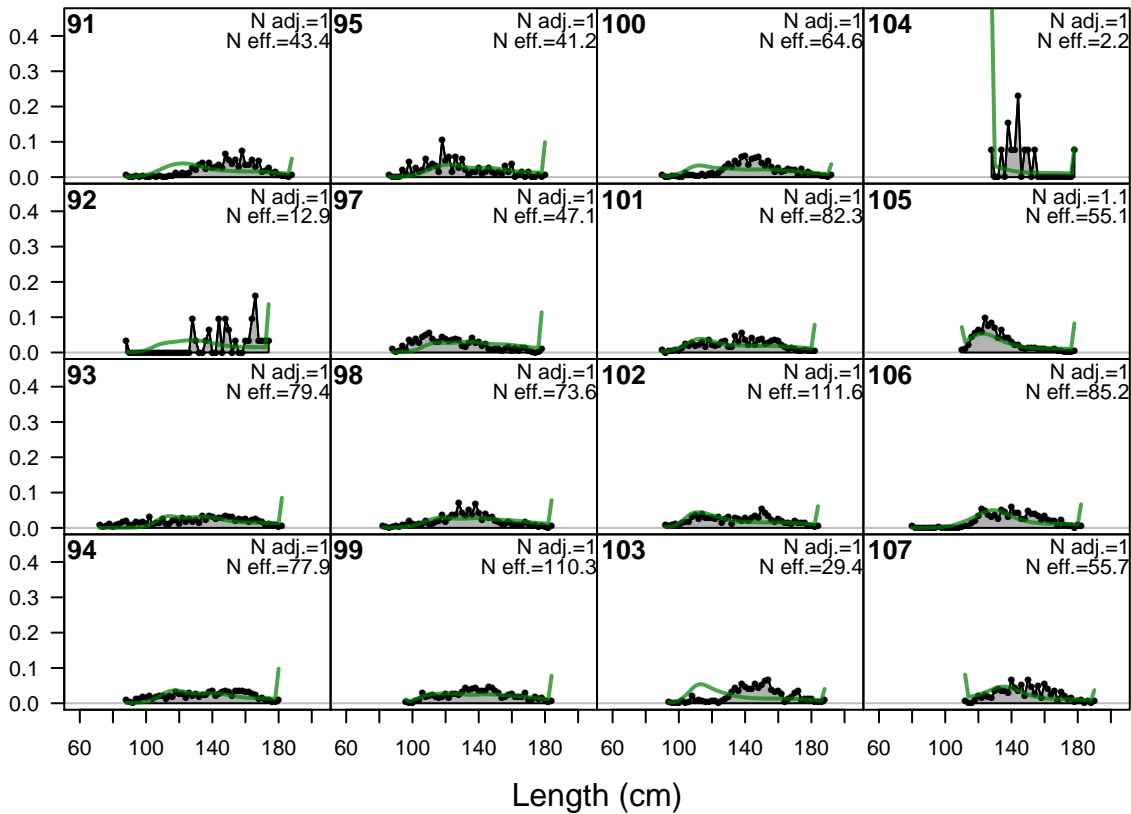
Proportion



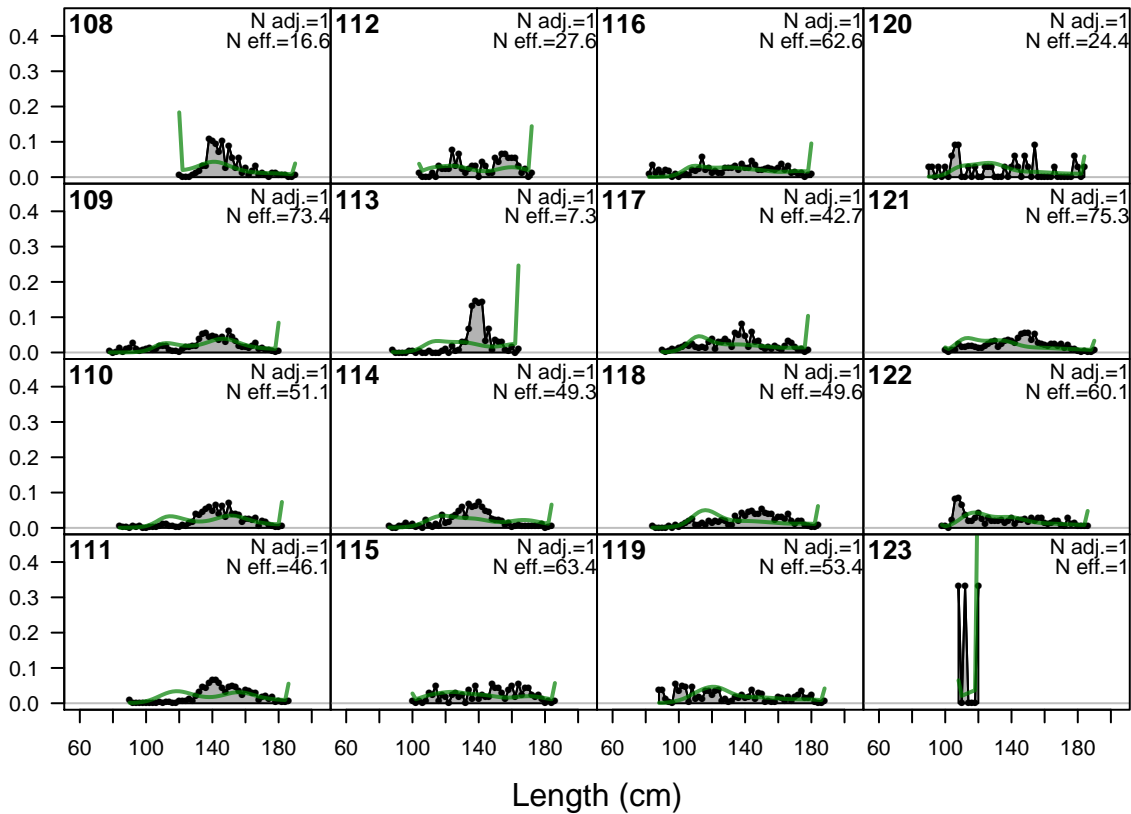
Proportion



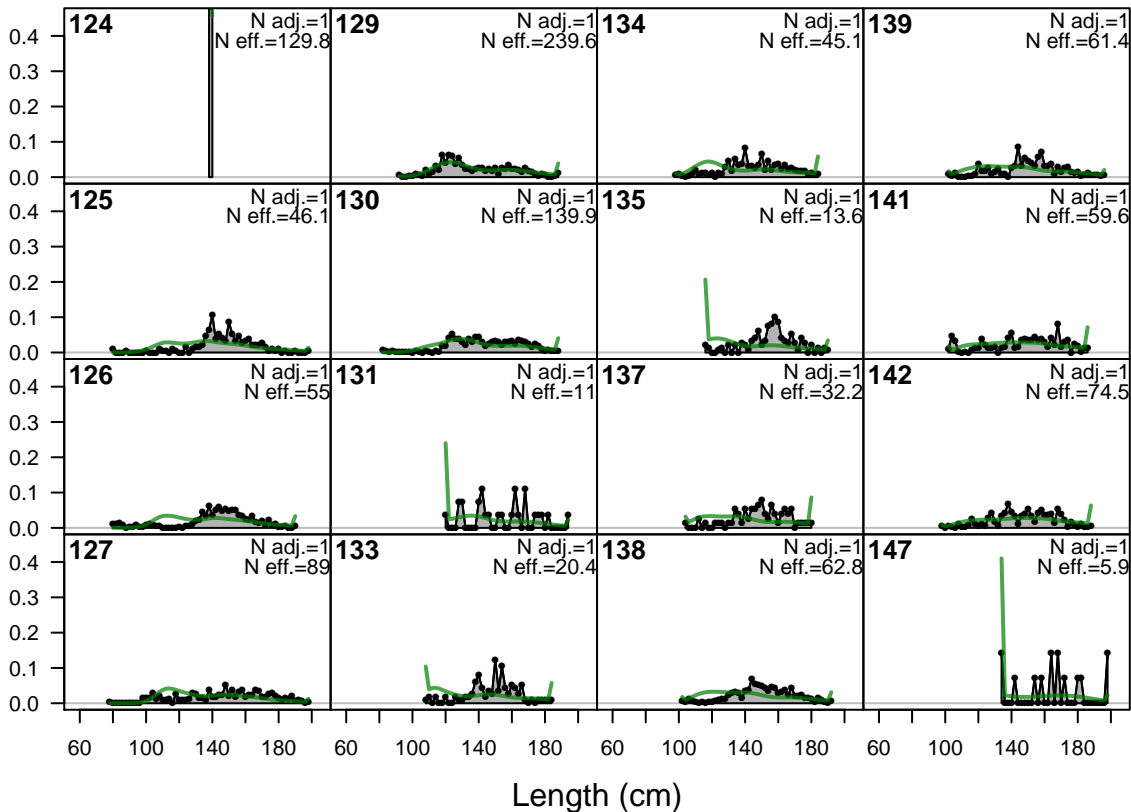
Proportion



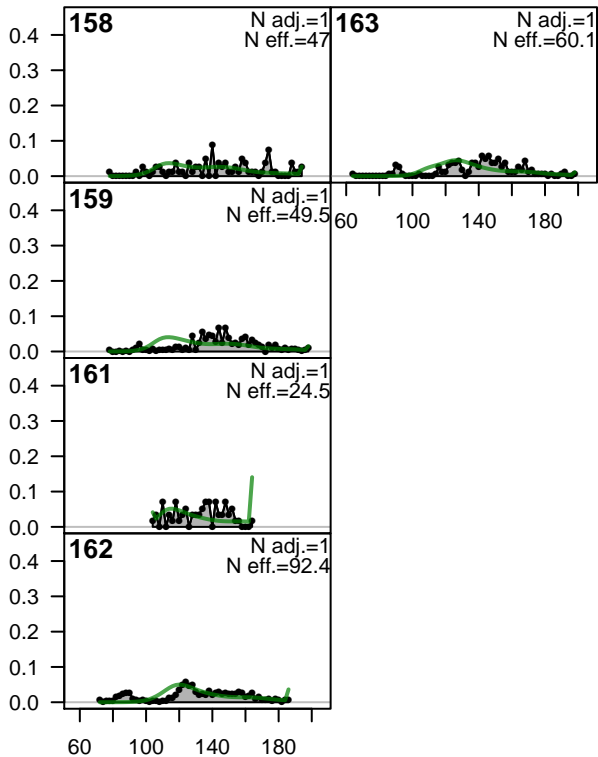
Proportion



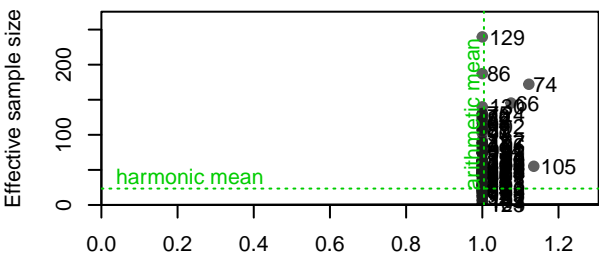
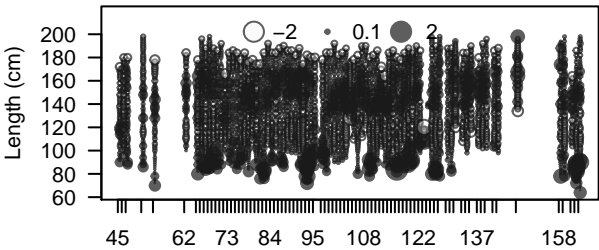
Proportion



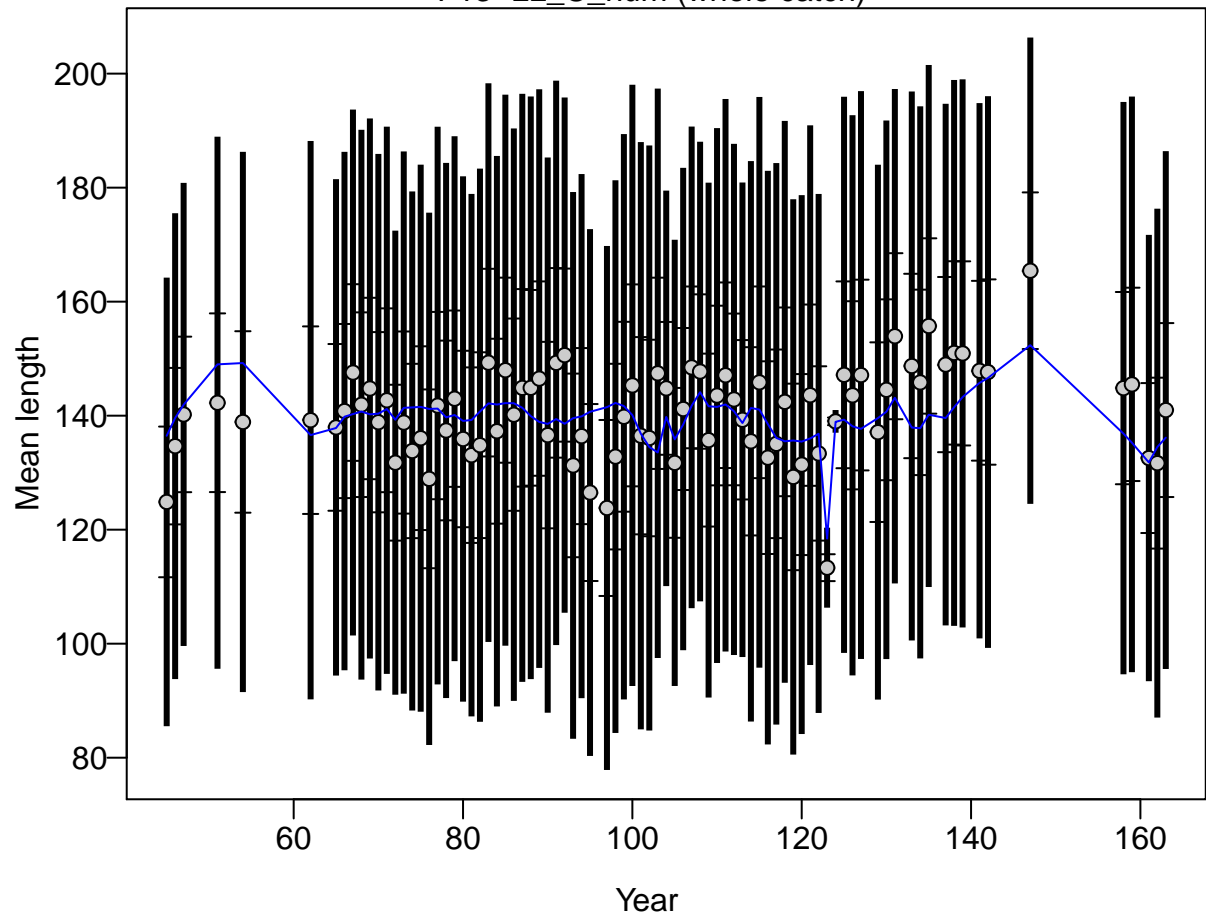
Proportion



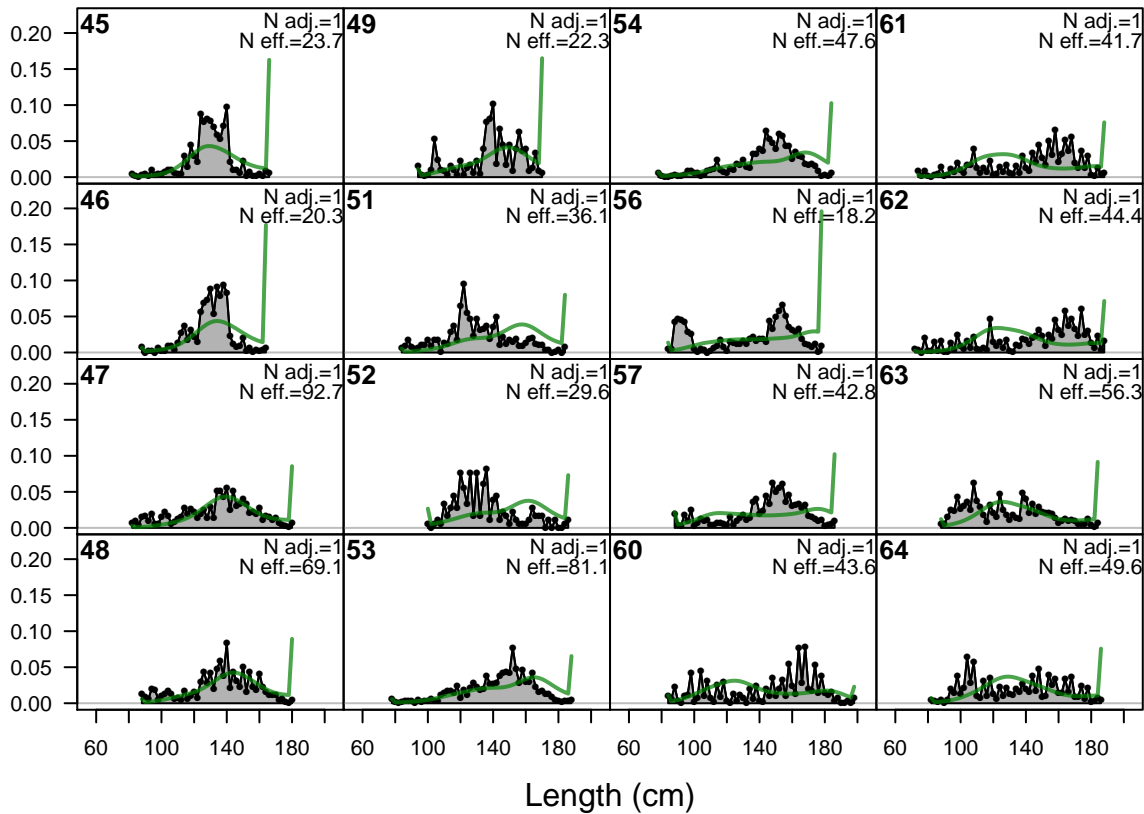
Length (cm)



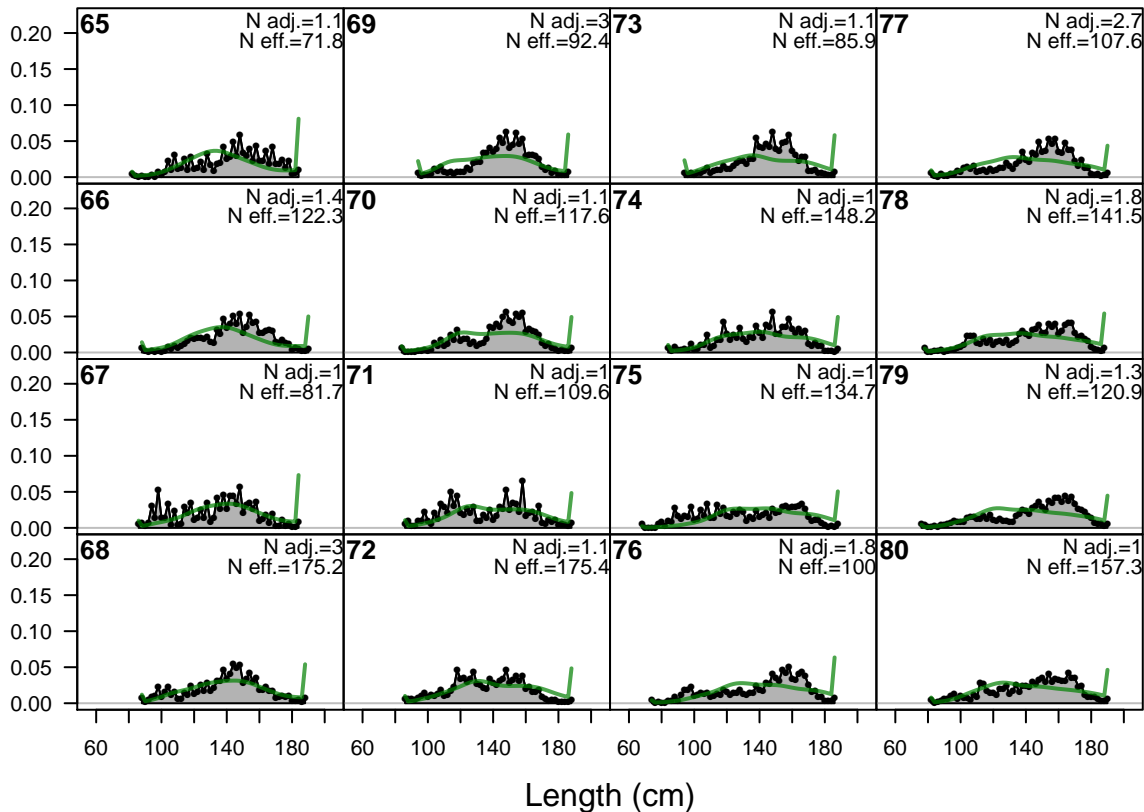
F13-LL_C_num (whole catch)



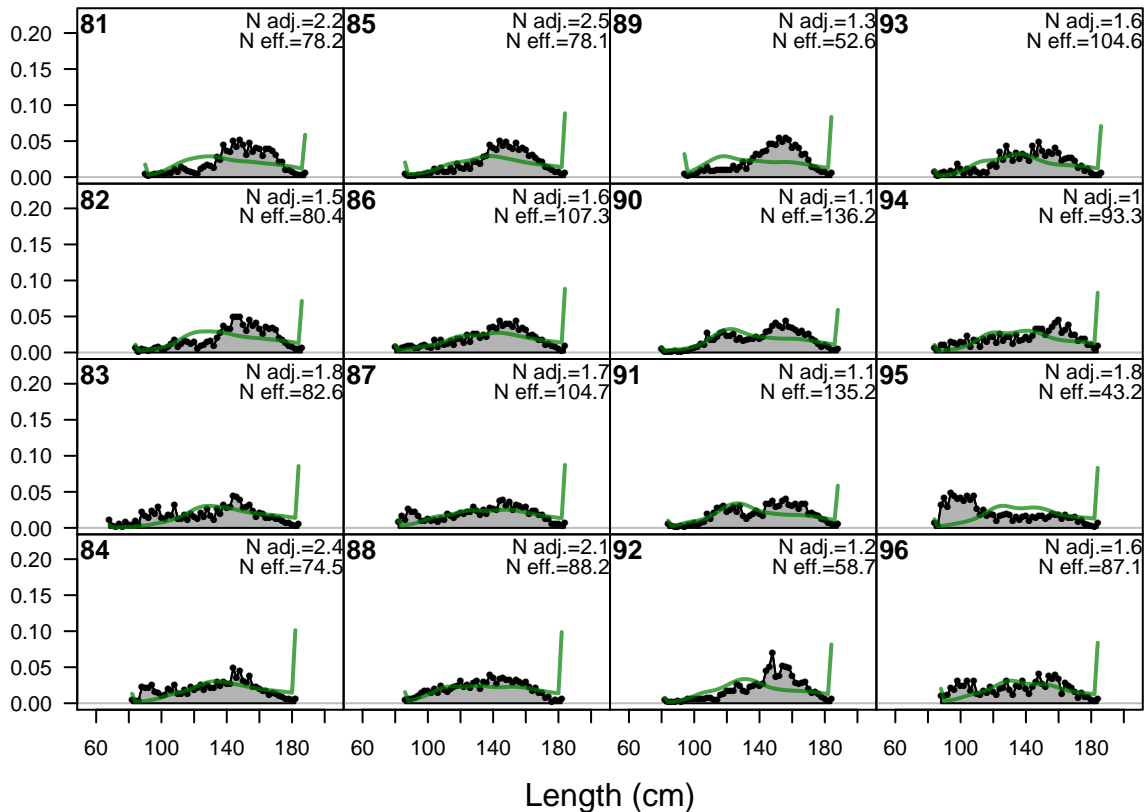
Proportion



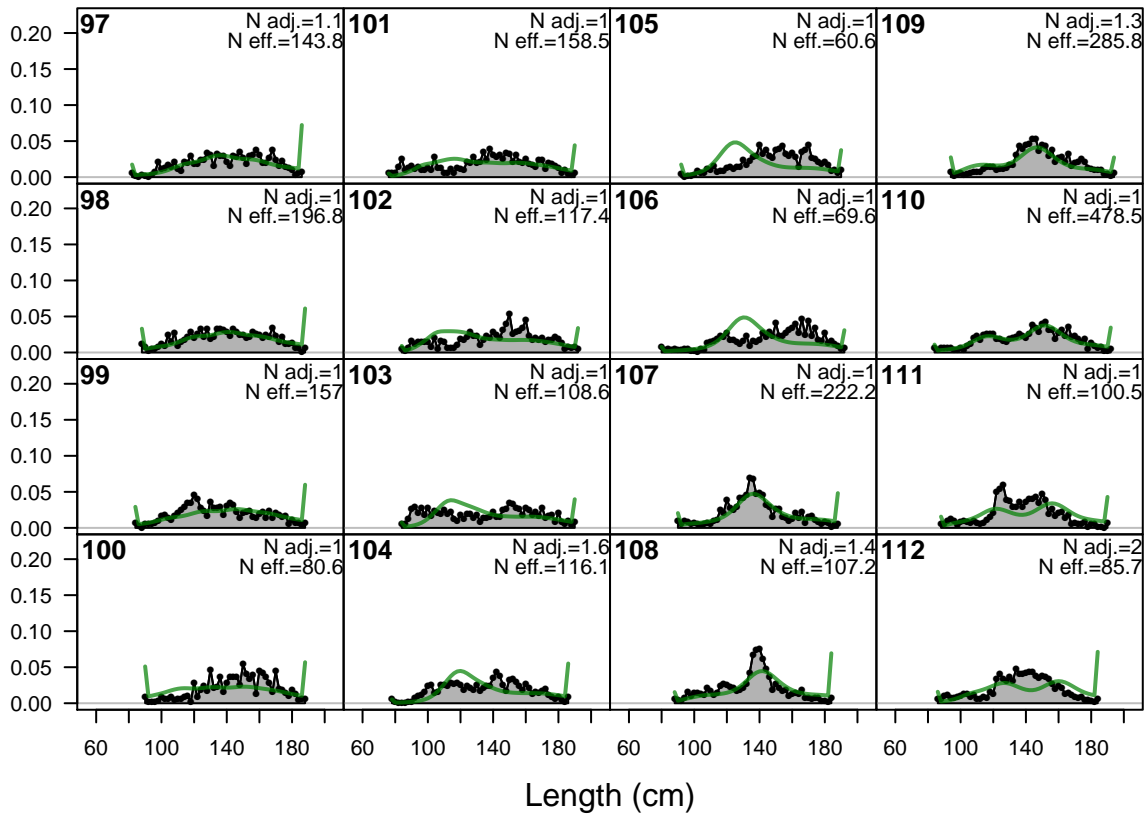
Proportion



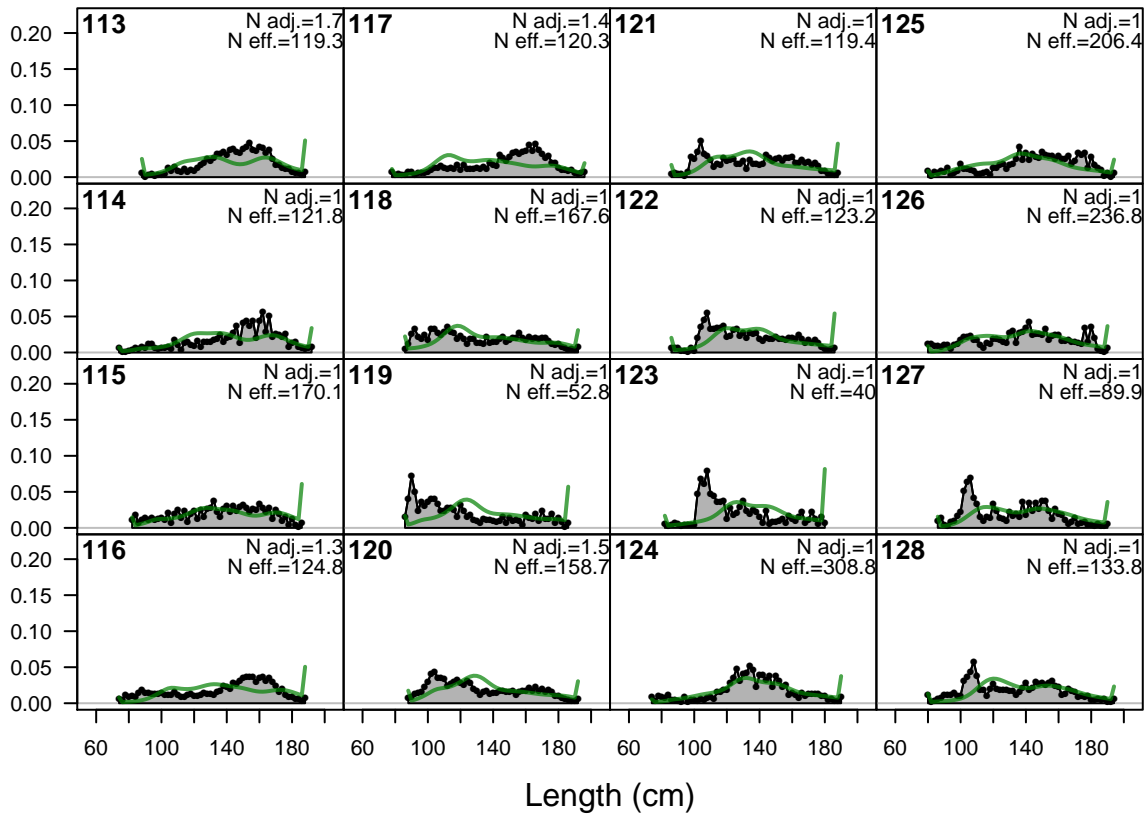
Proportion



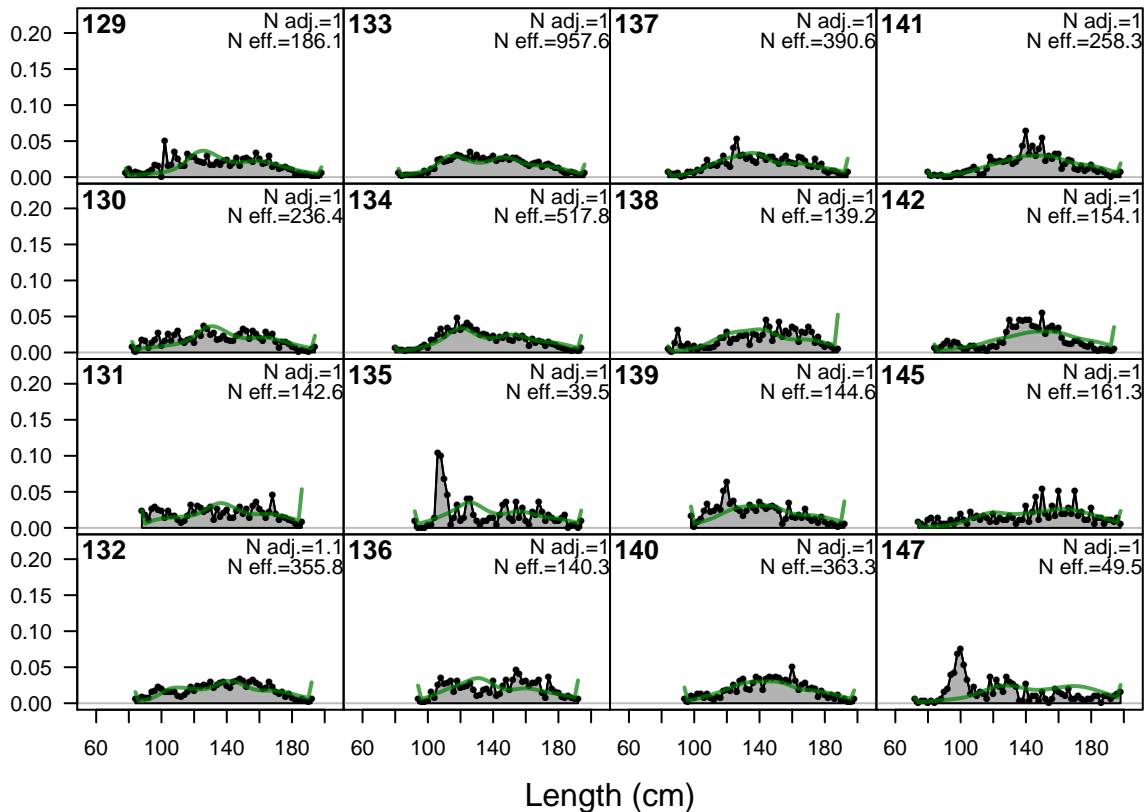
Proportion



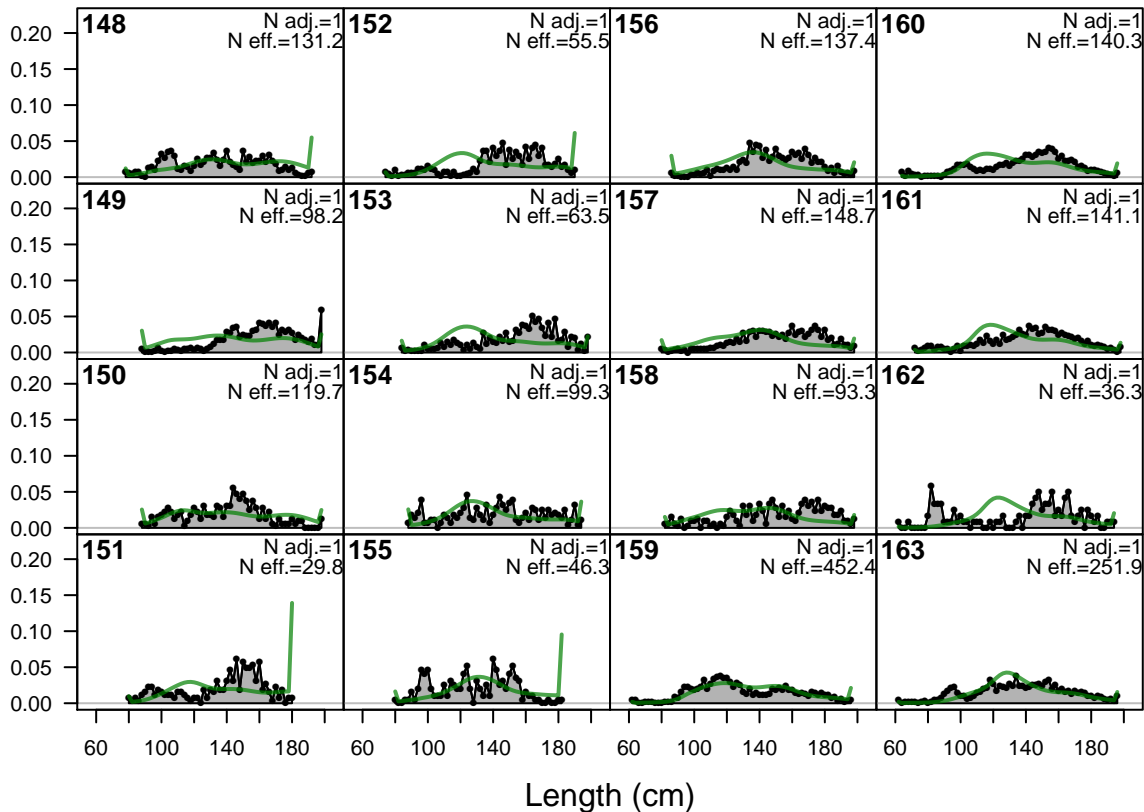
Proportion

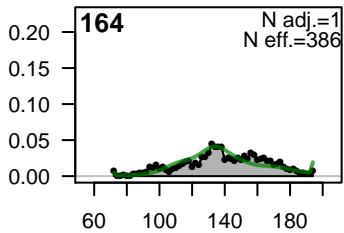


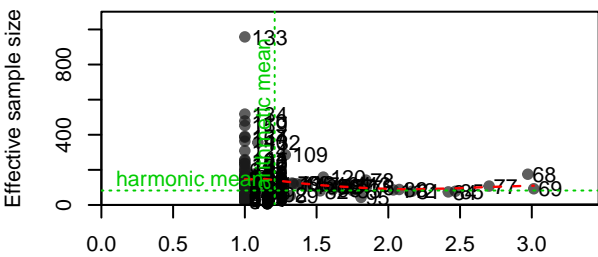
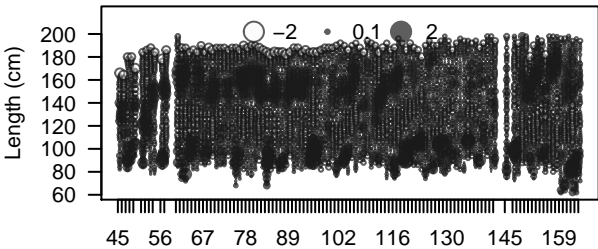
Proportion



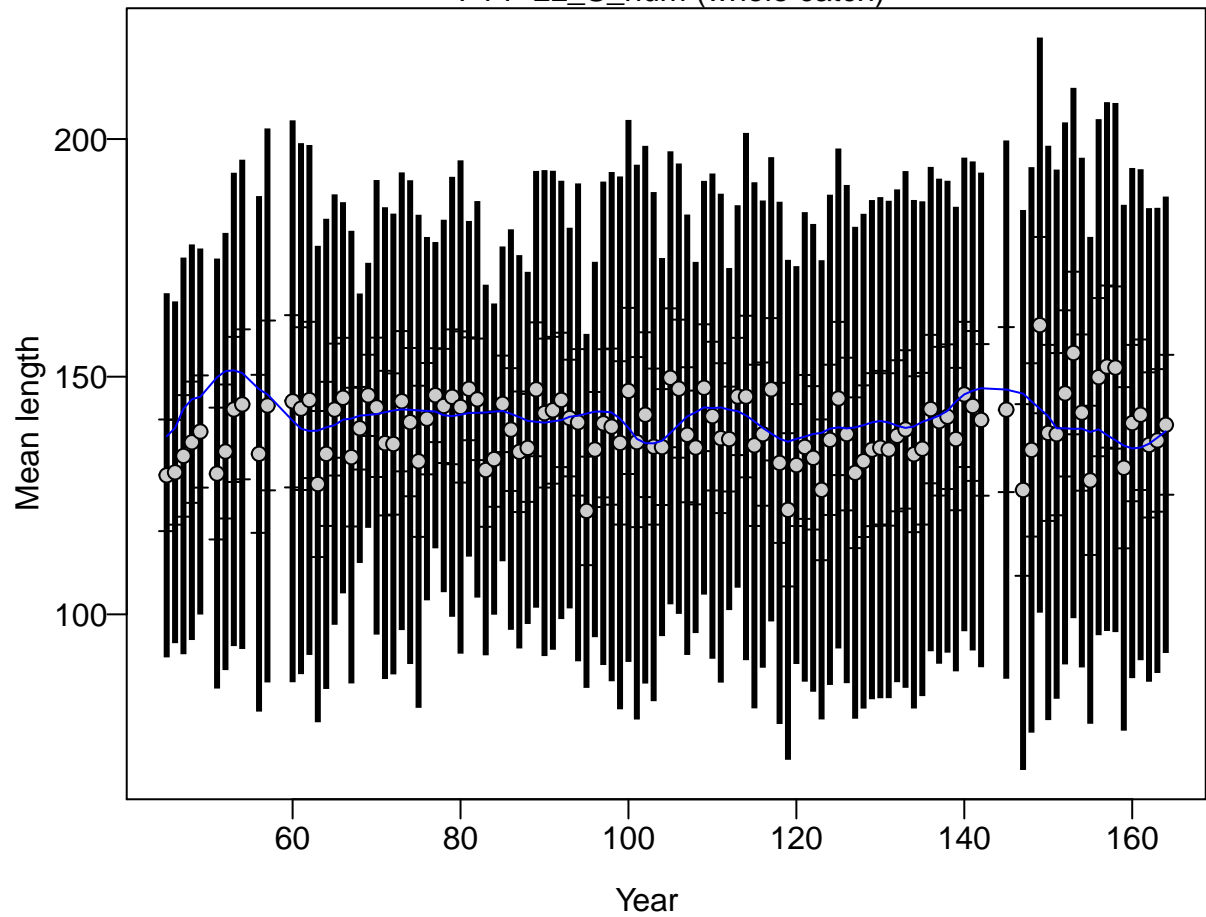
Proportion



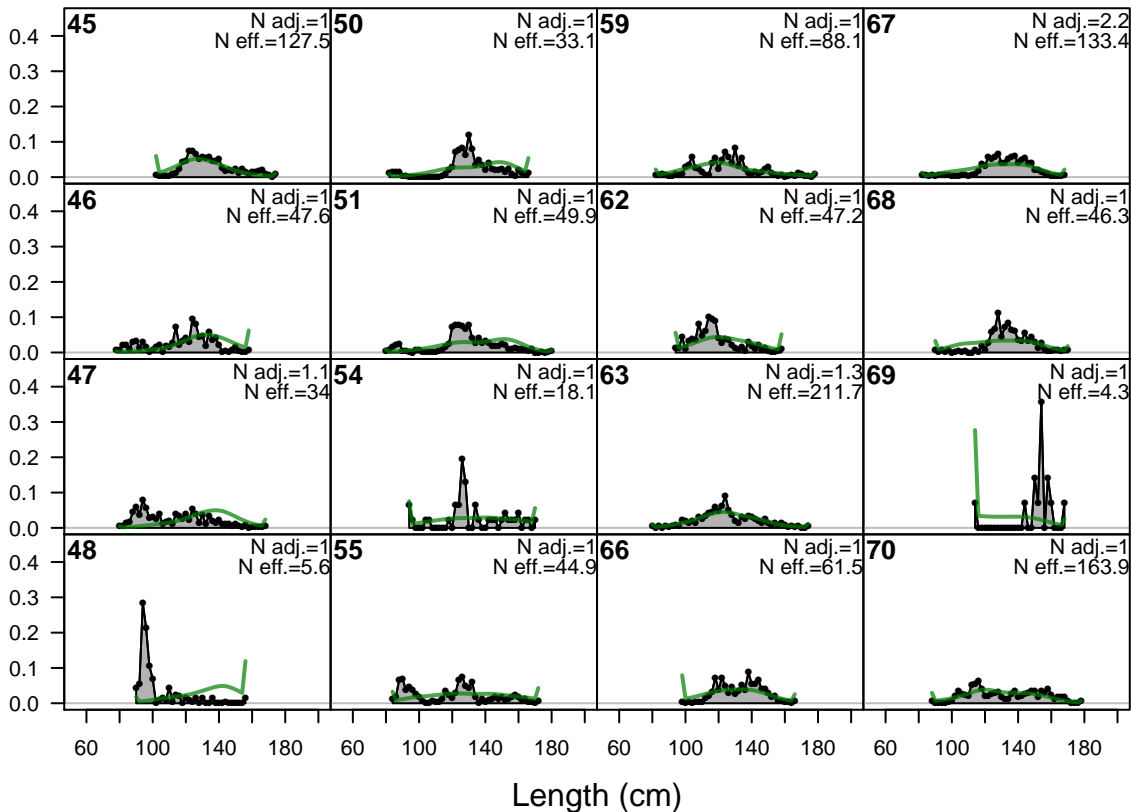




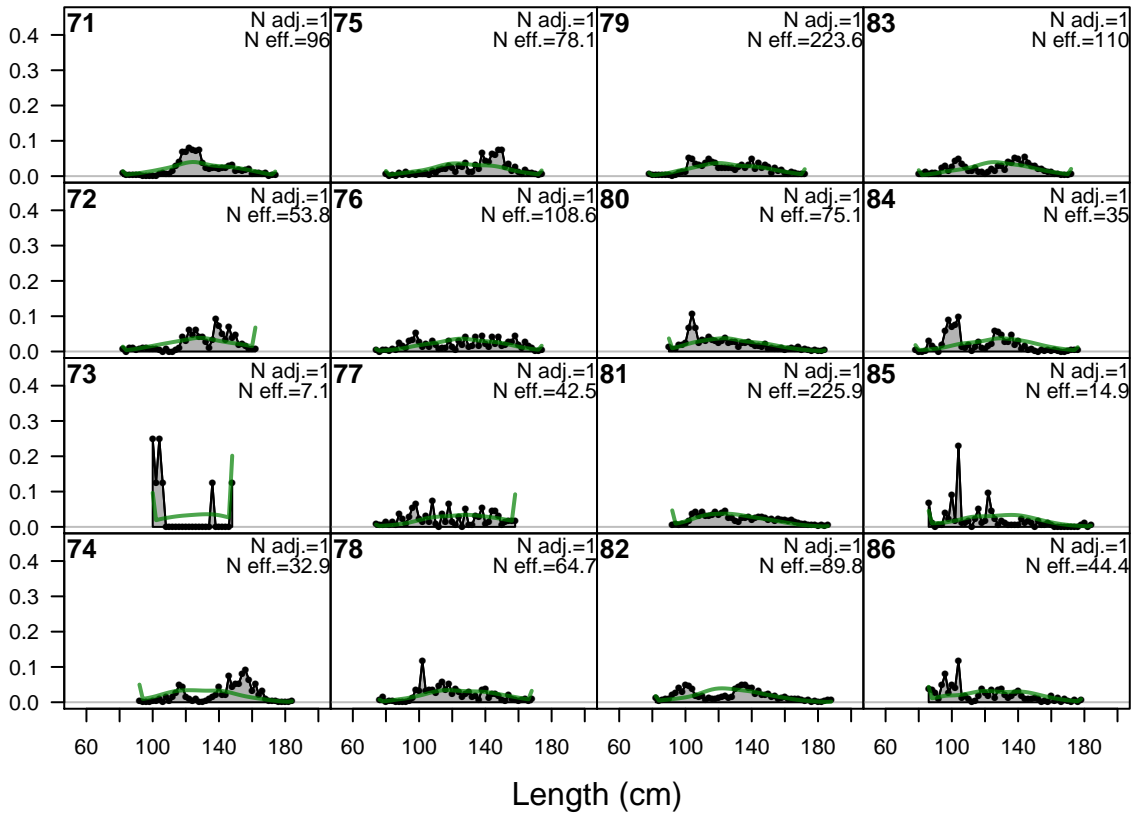
F14-LL_S_num (whole catch)



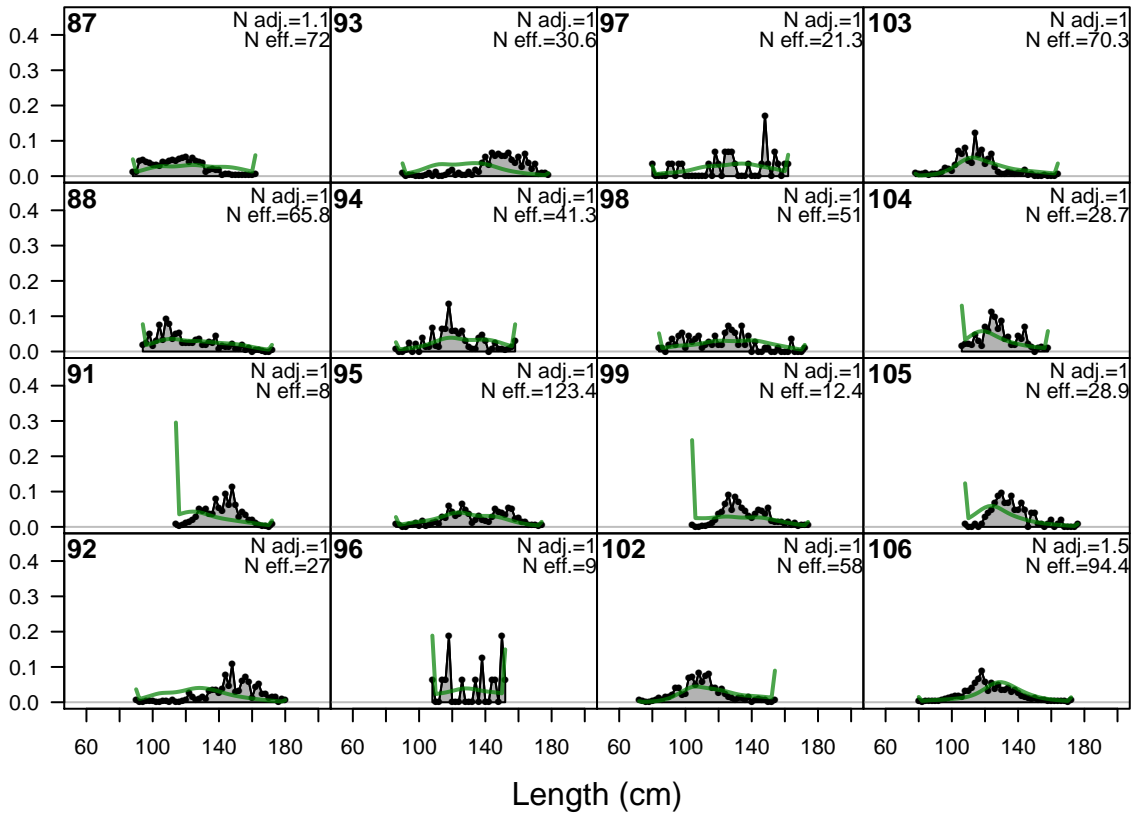
Proportion



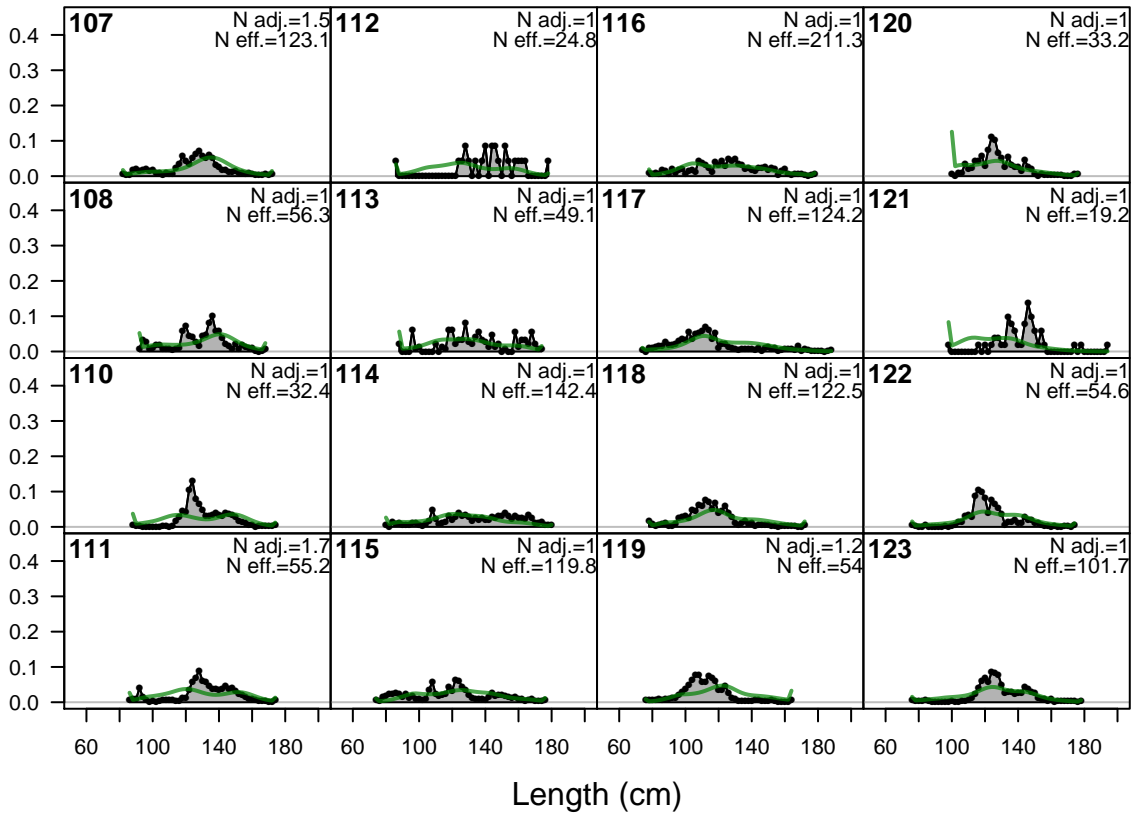
Proportion



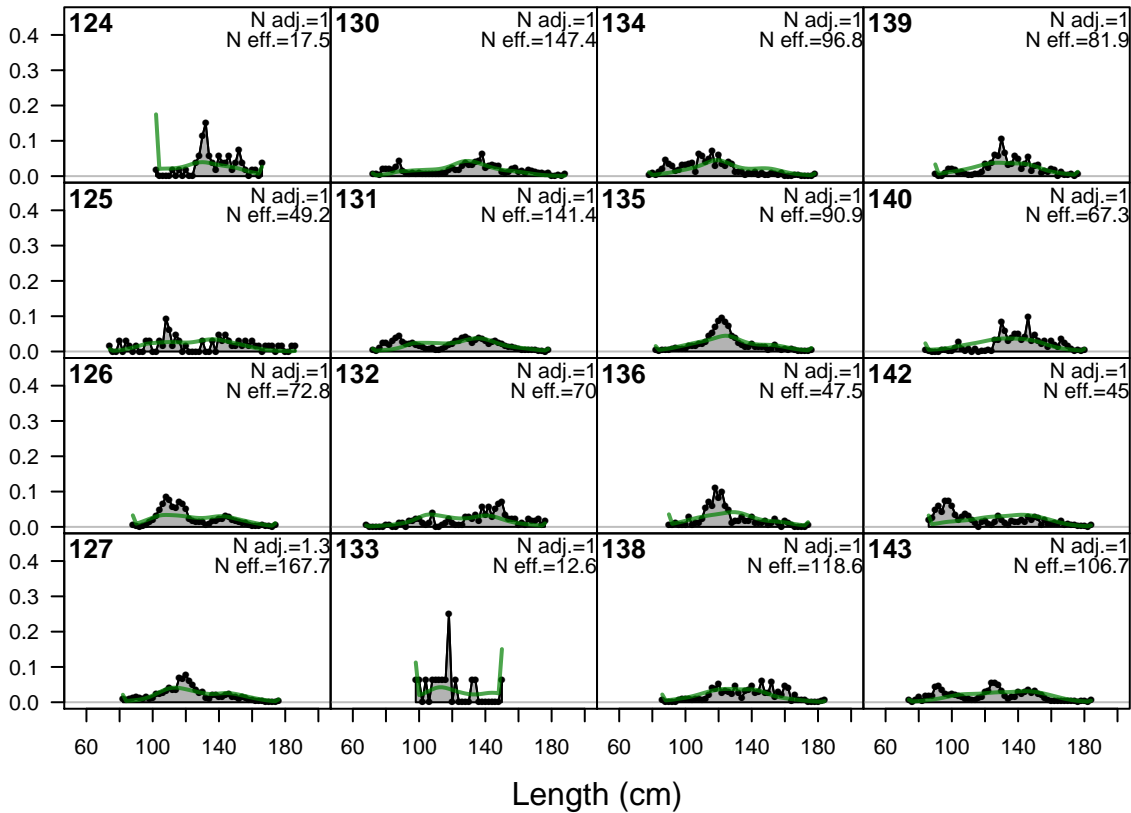
Proportion



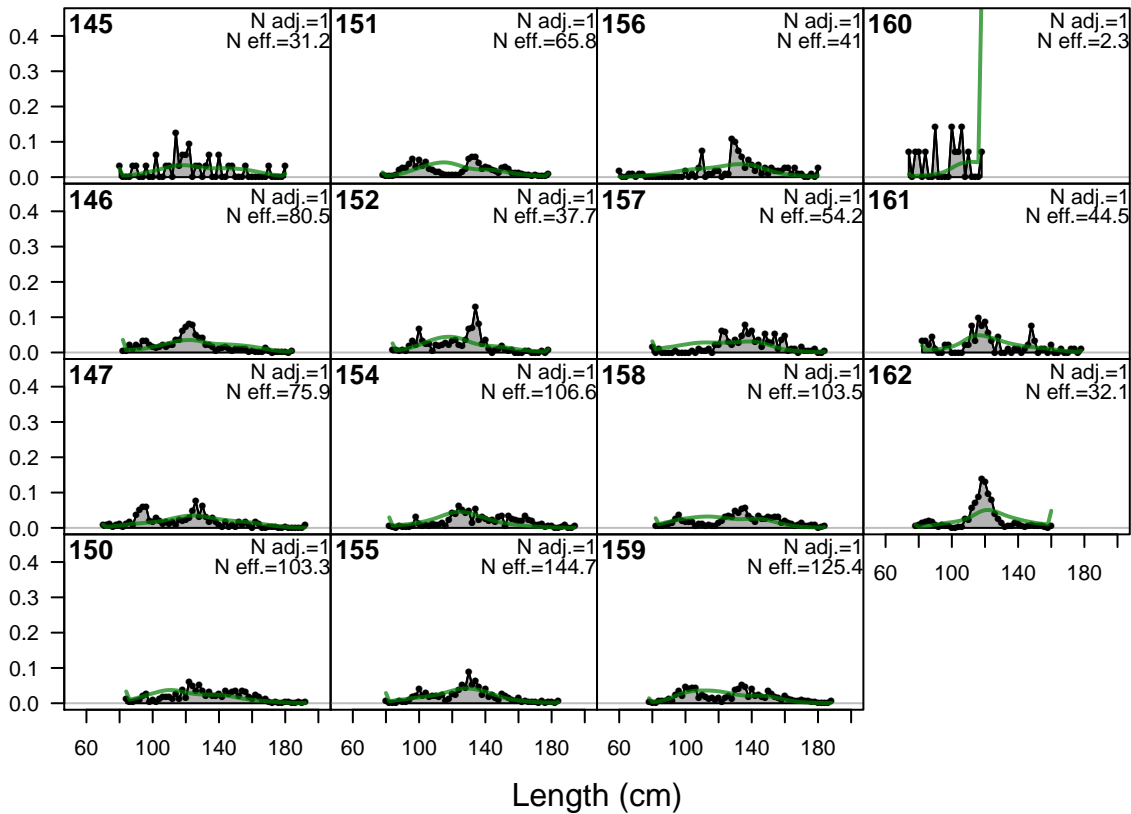
Proportion

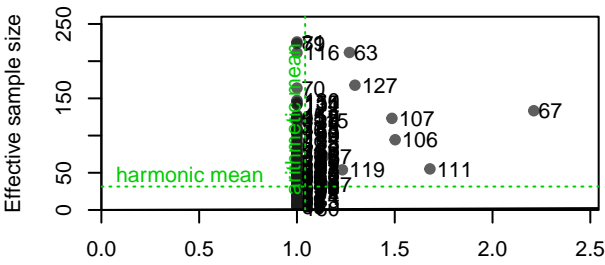
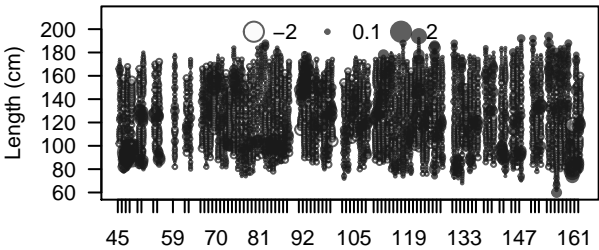


Proportion

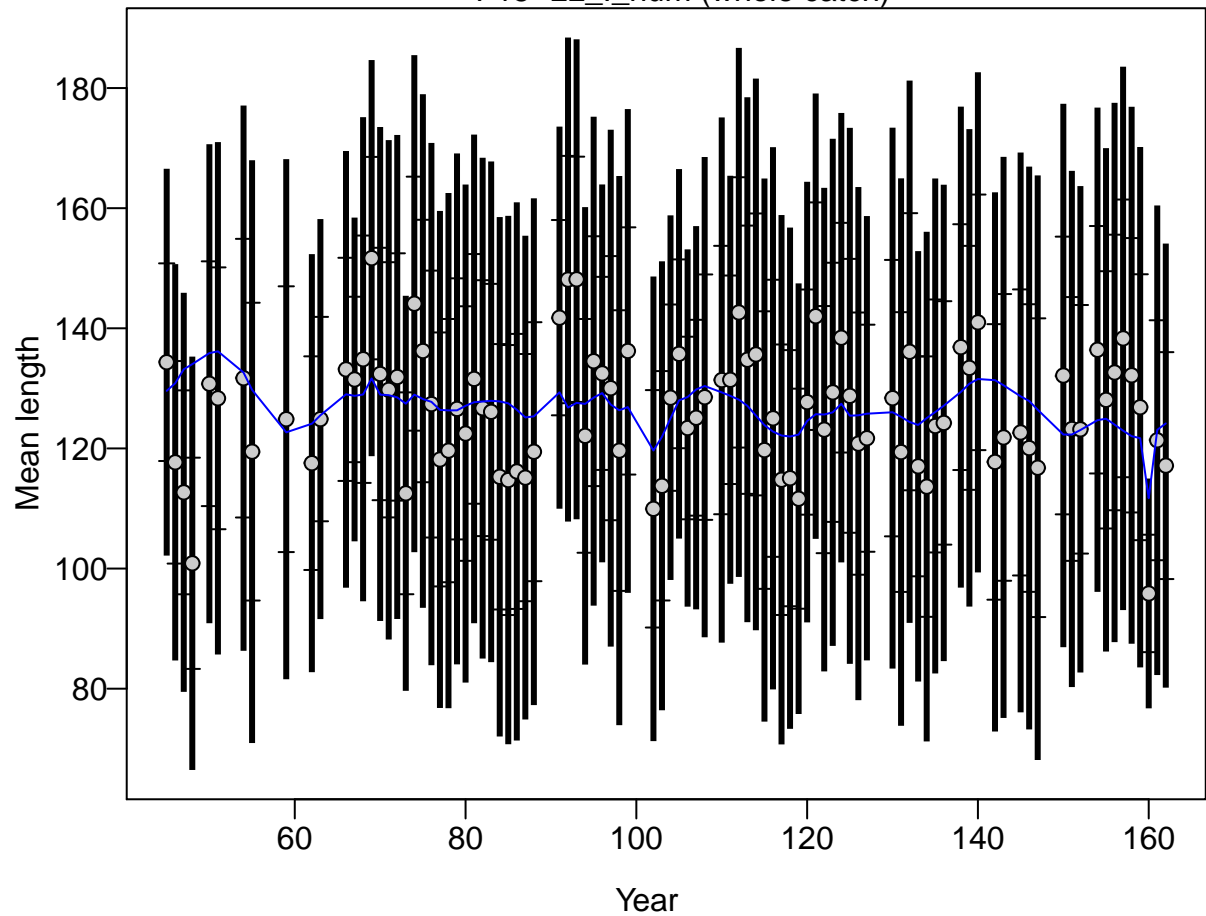


Proportion

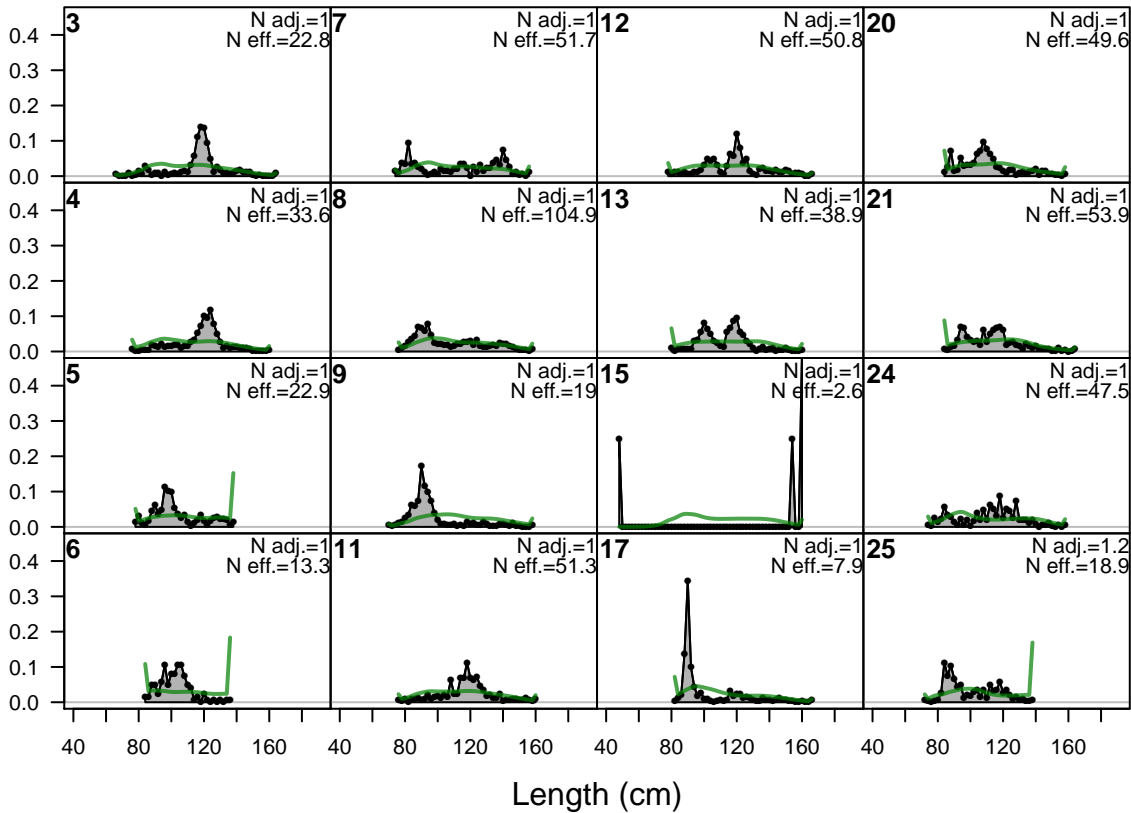




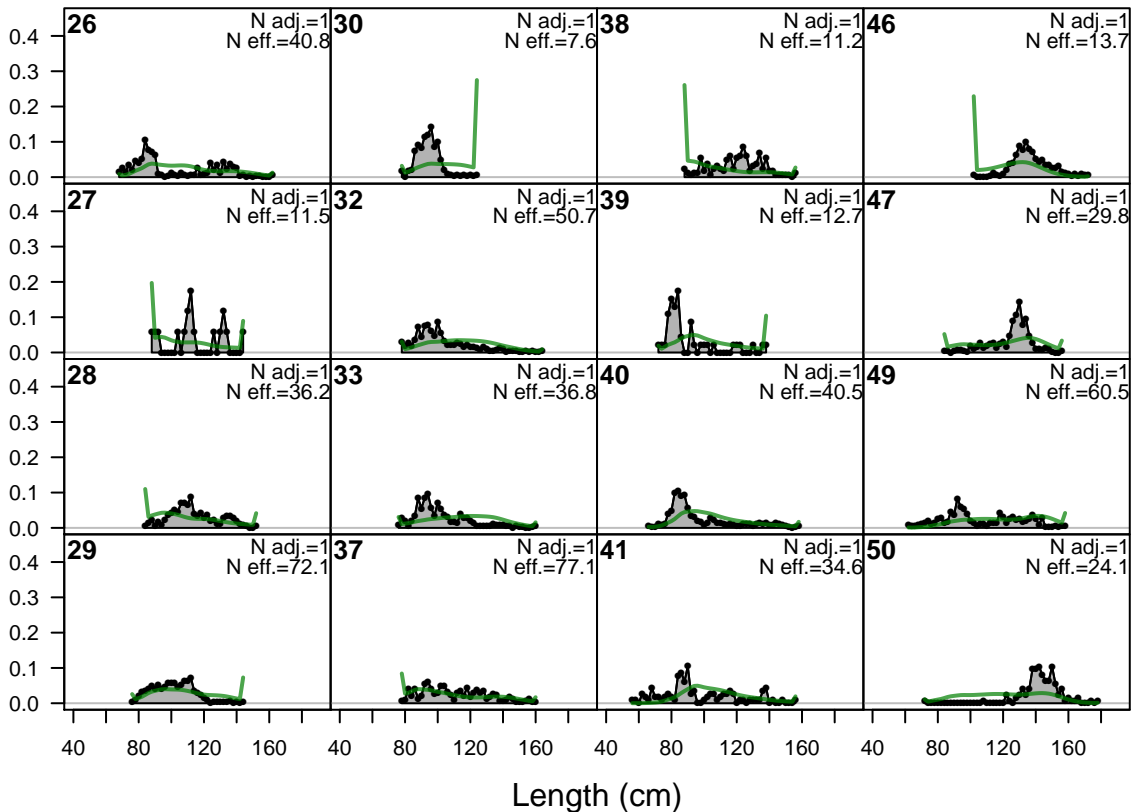
F15-LL_I_num (whole catch)



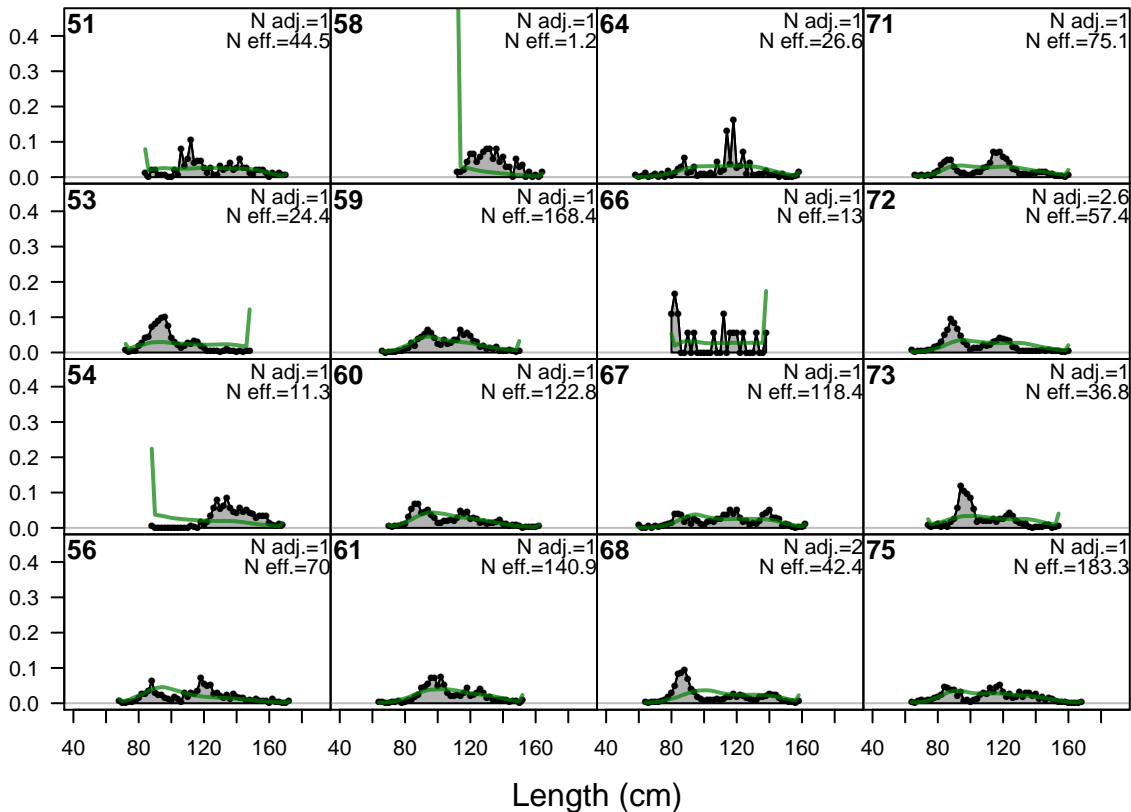
Proportion



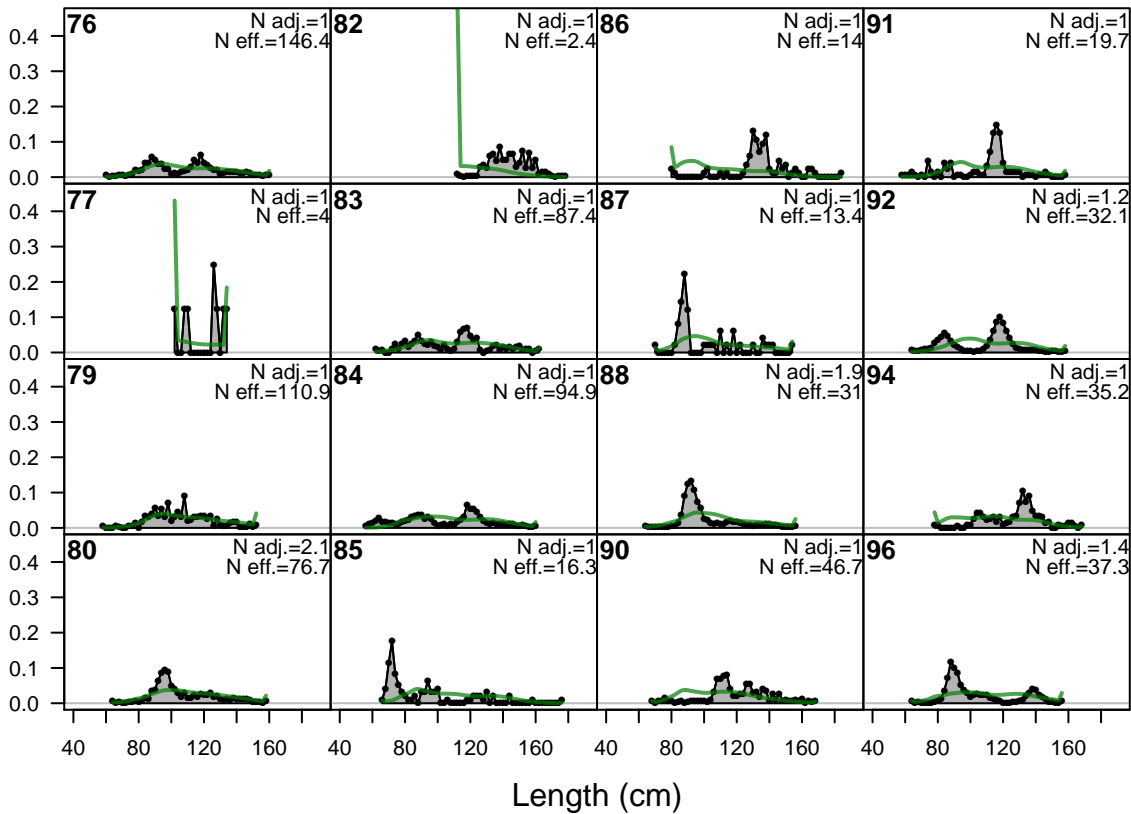
Proportion



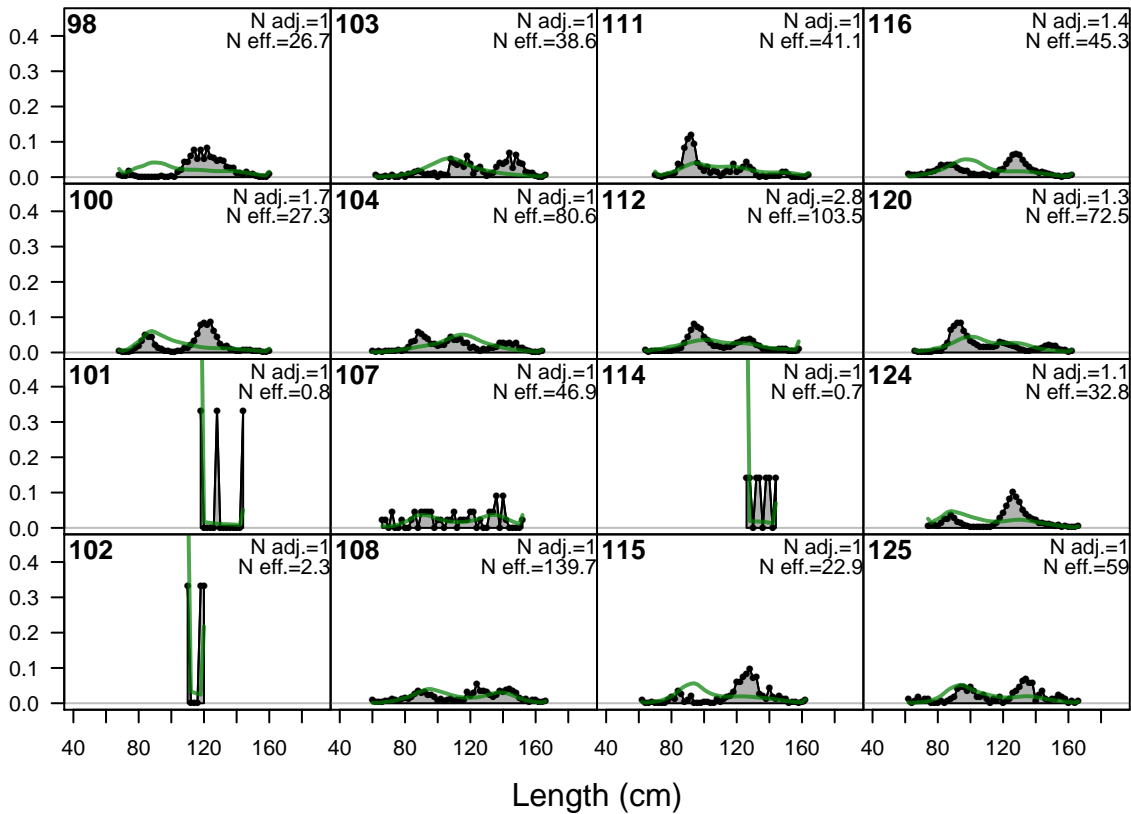
Proportion



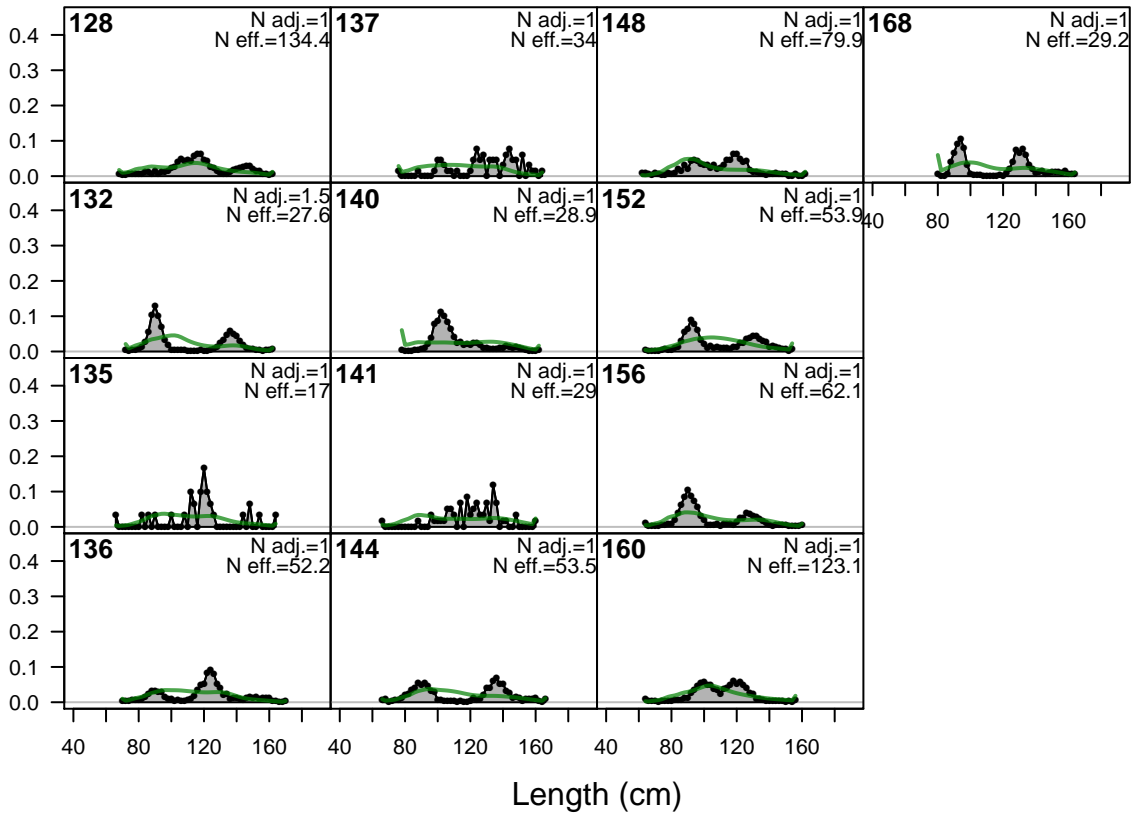
Proportion

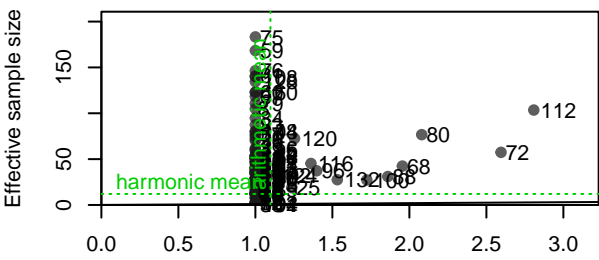
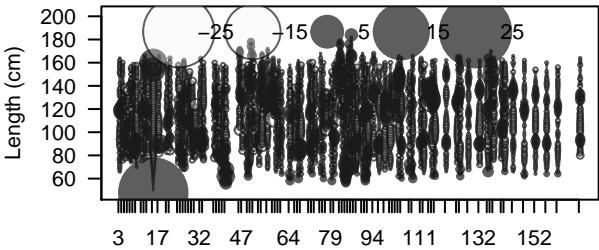


Proportion

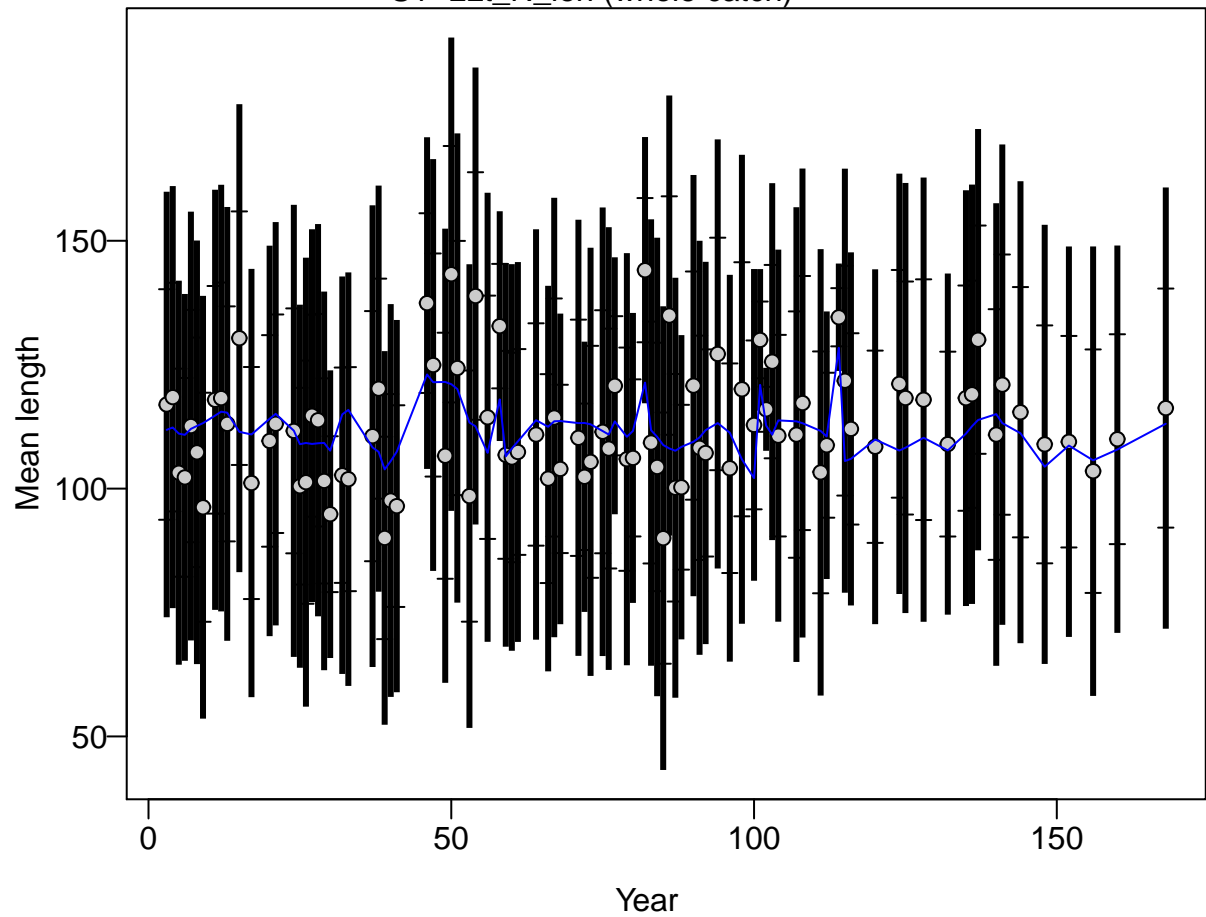


Proportion

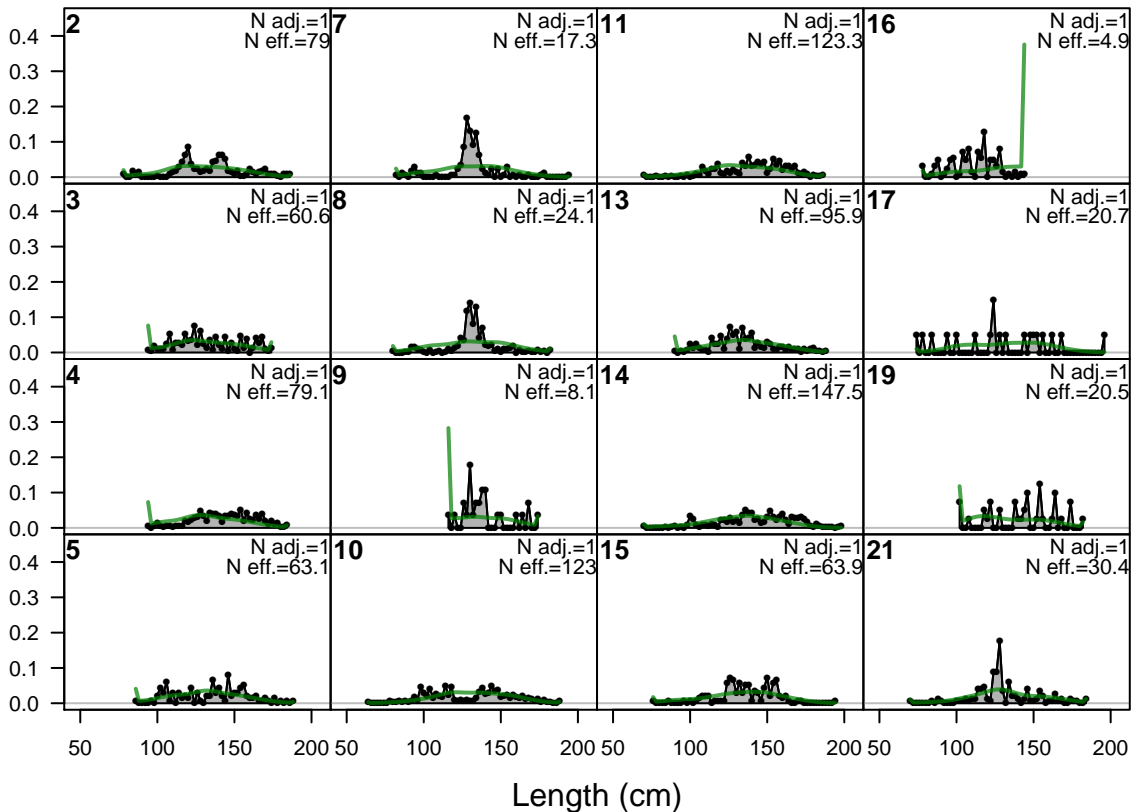




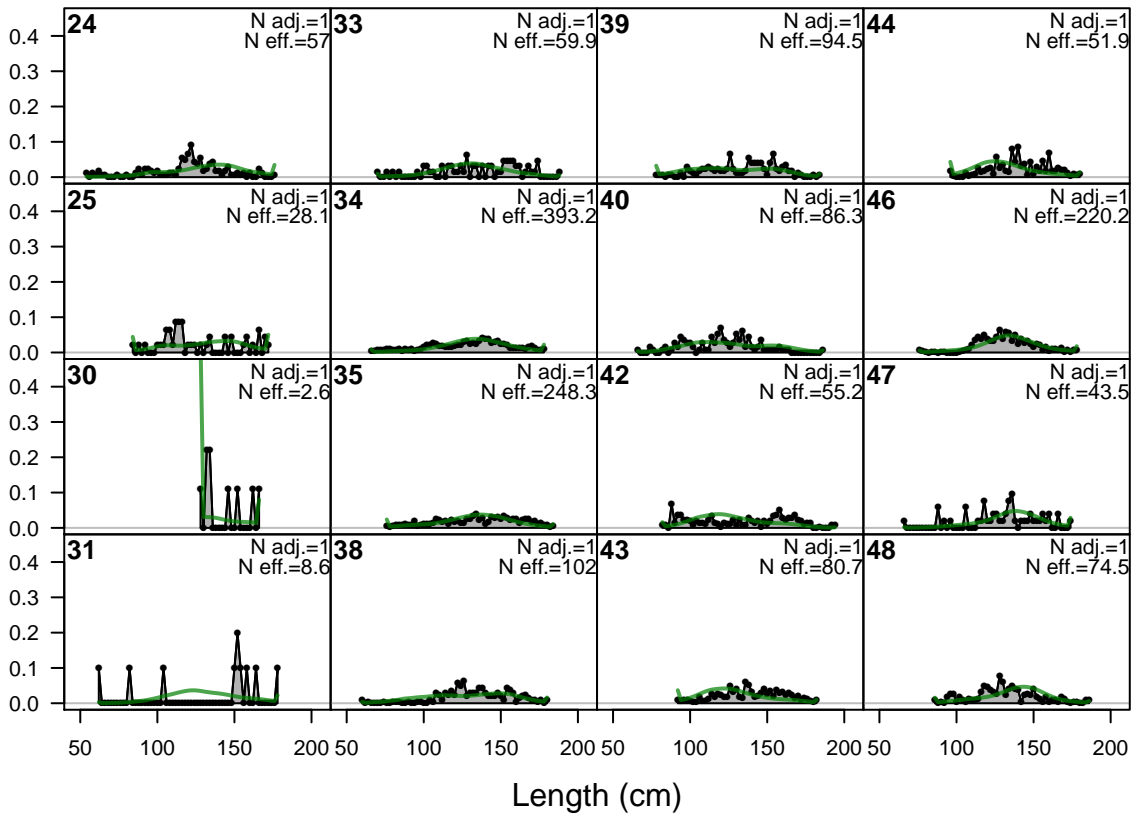
S1-LLt_N_len (whole catch)



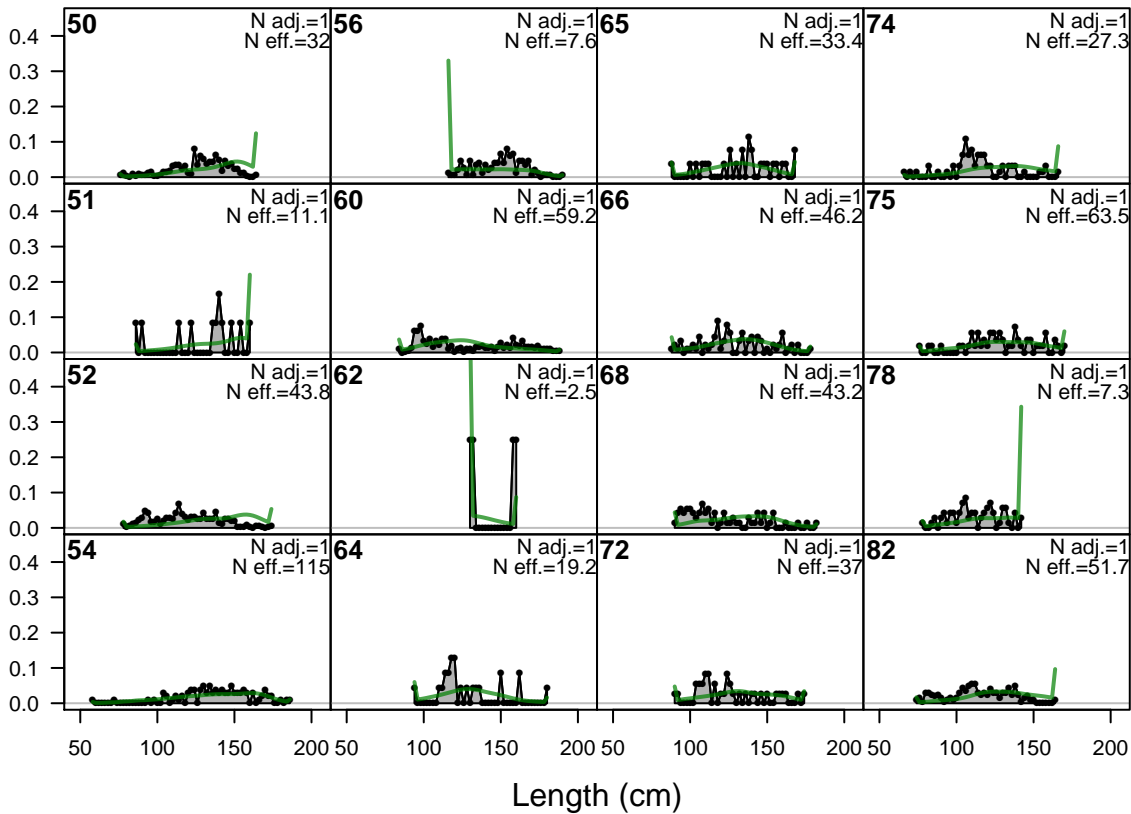
Proportion



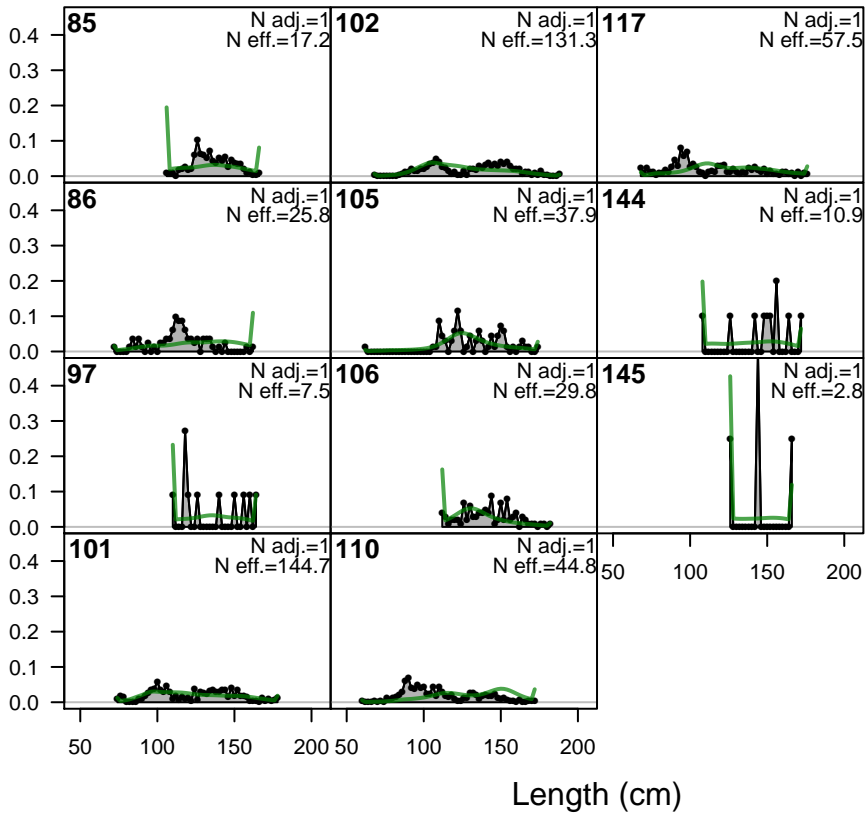
Proportion

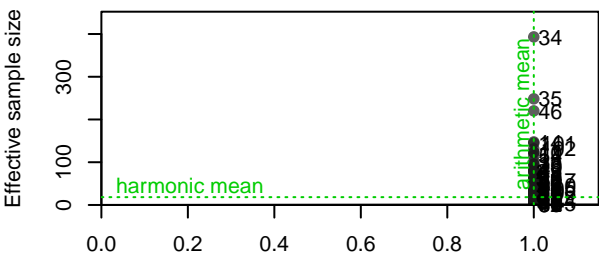
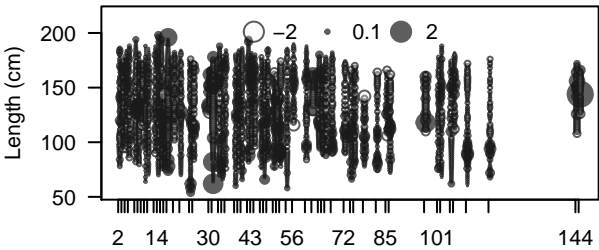


Proportion

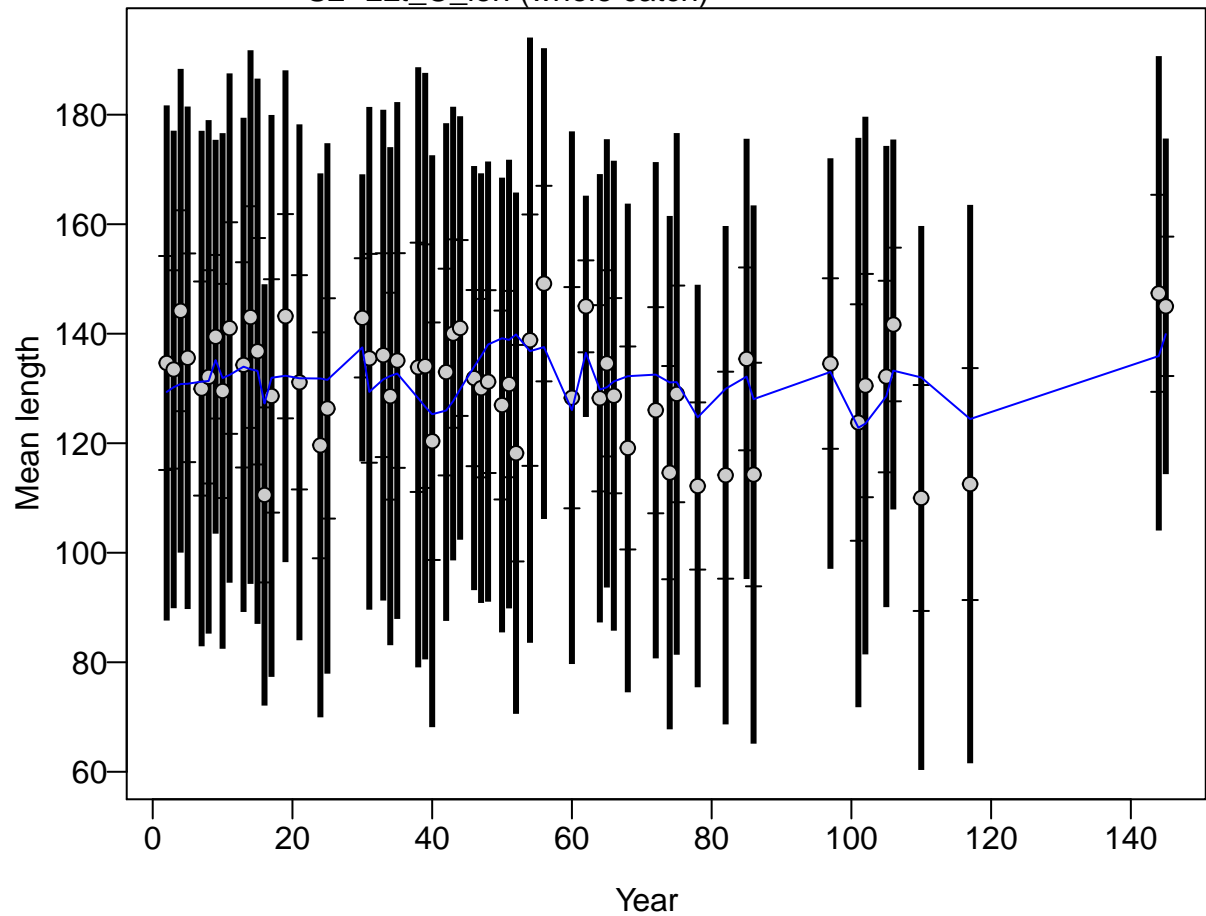


Proportion

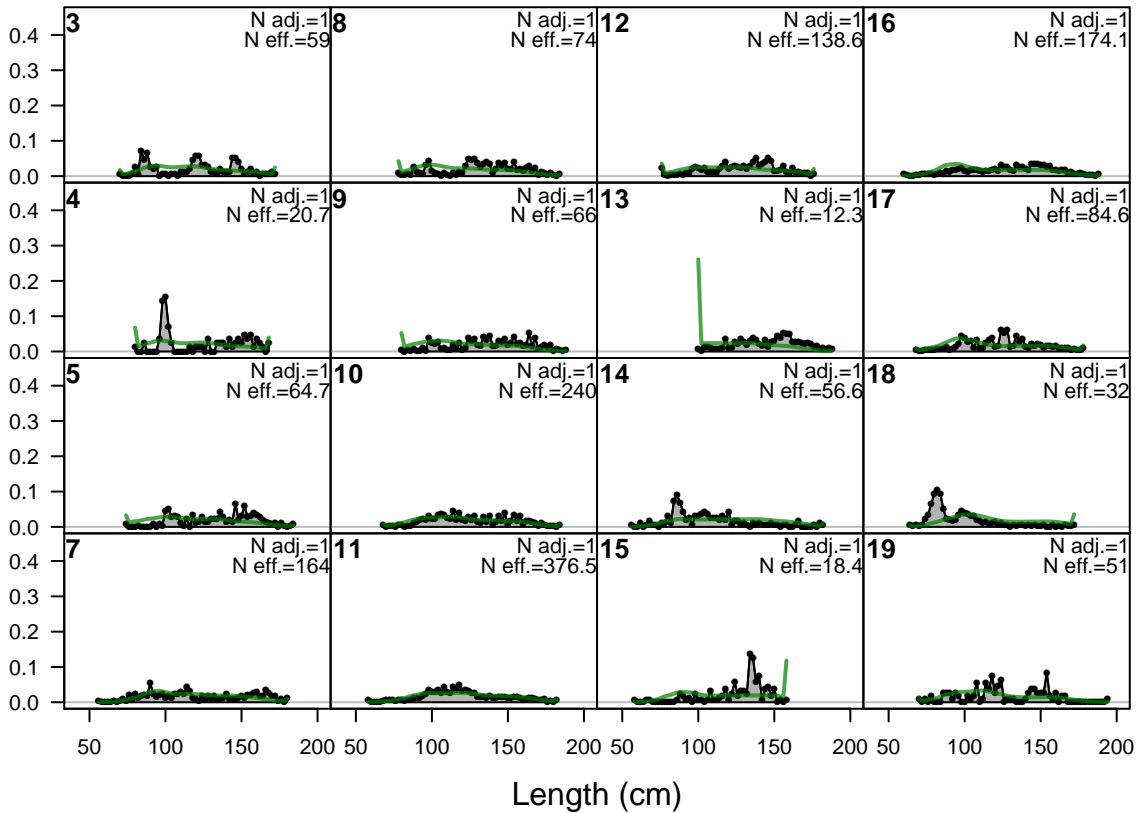




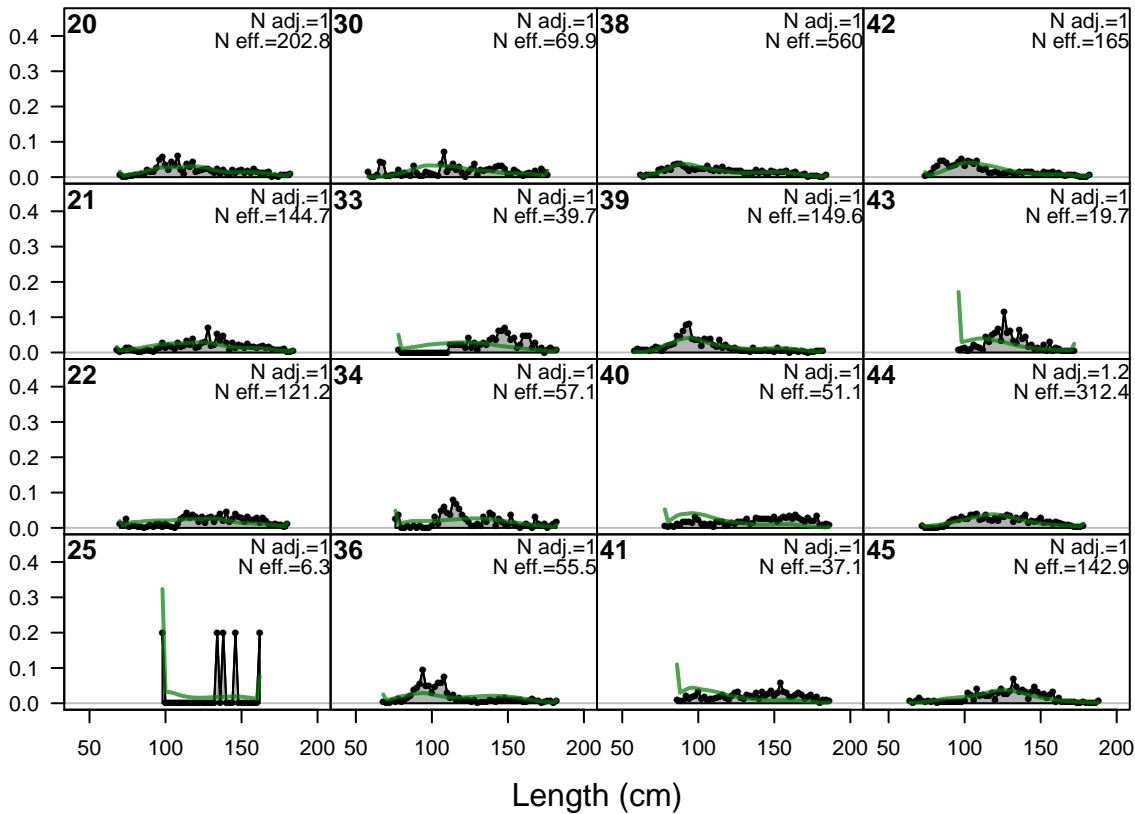
S2-LLt_C_len (whole catch)



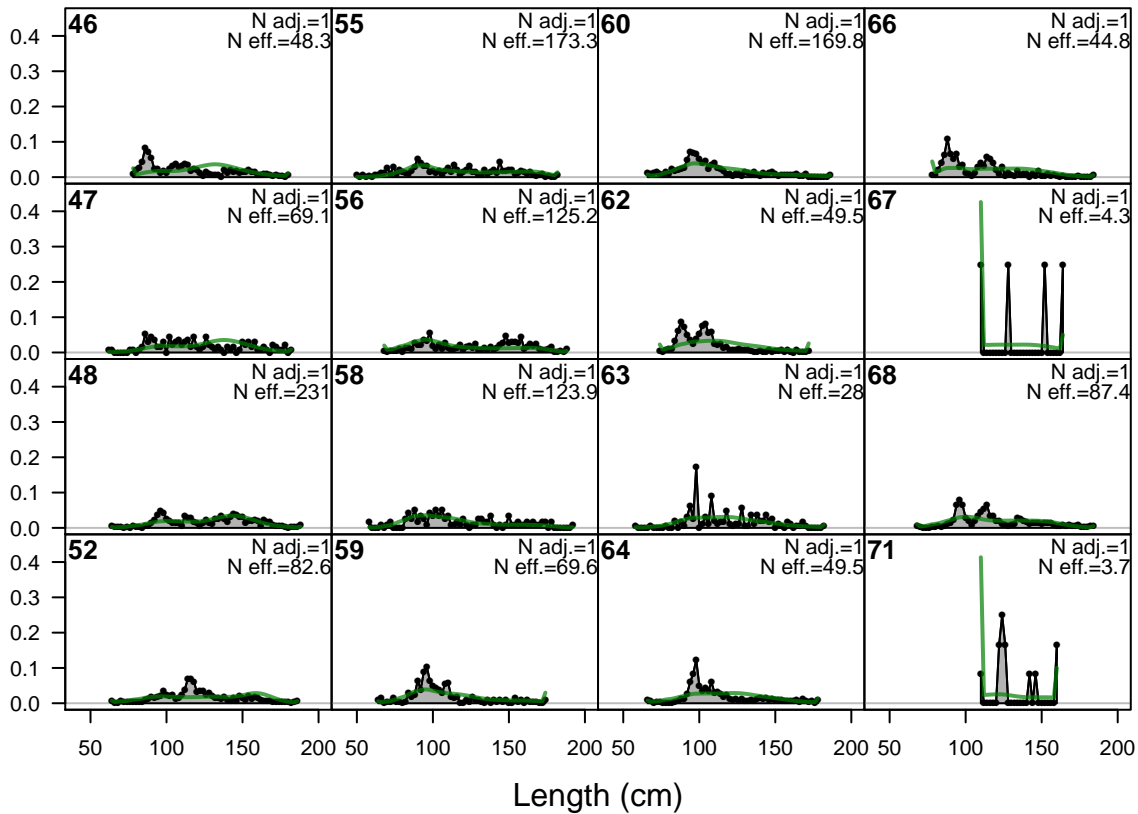
Proportion



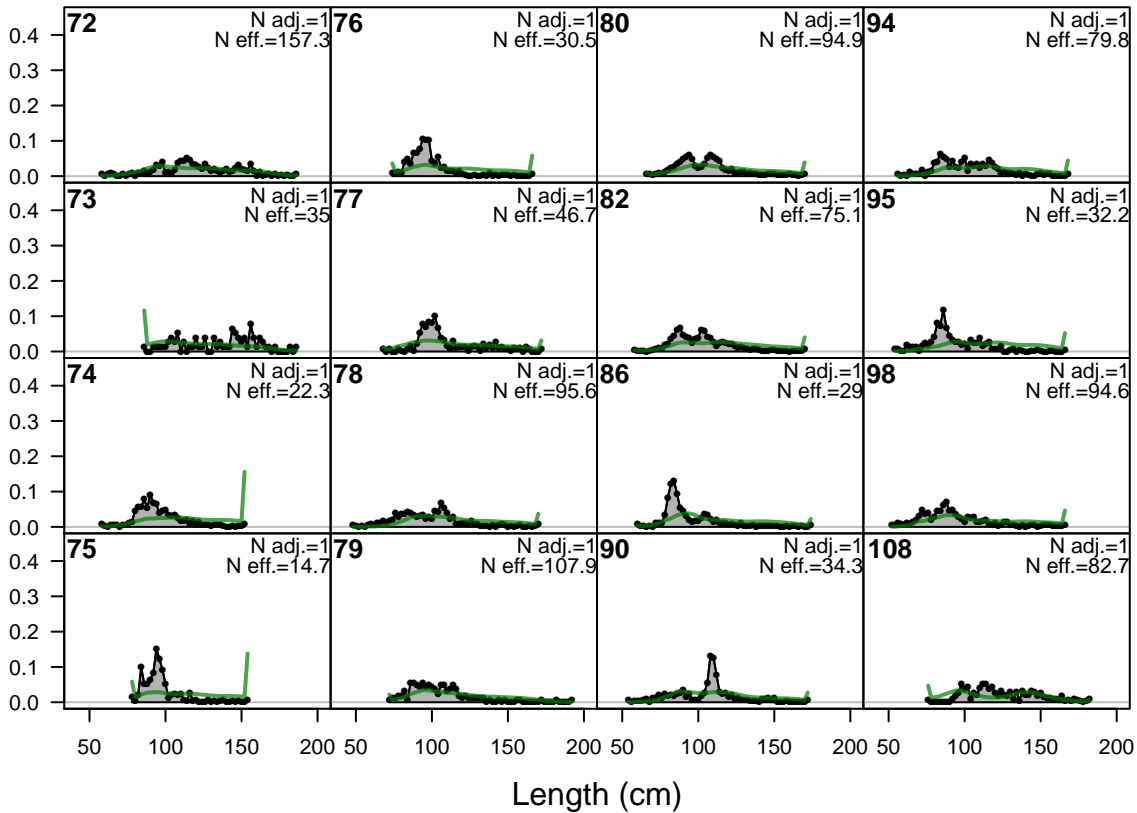
Proportion

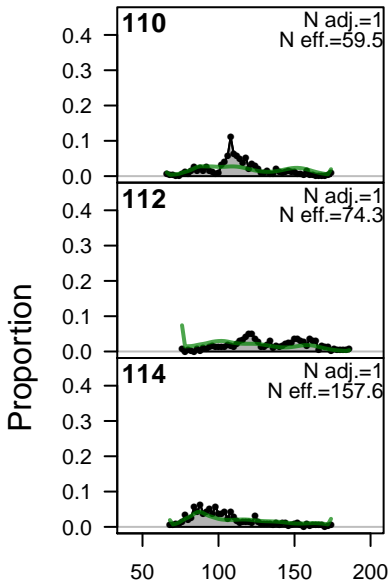


Proportion

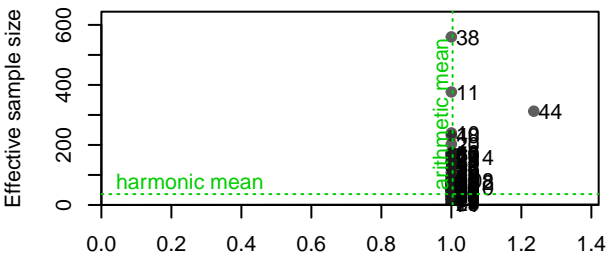
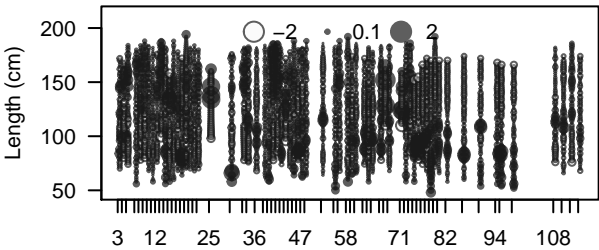


Proportion

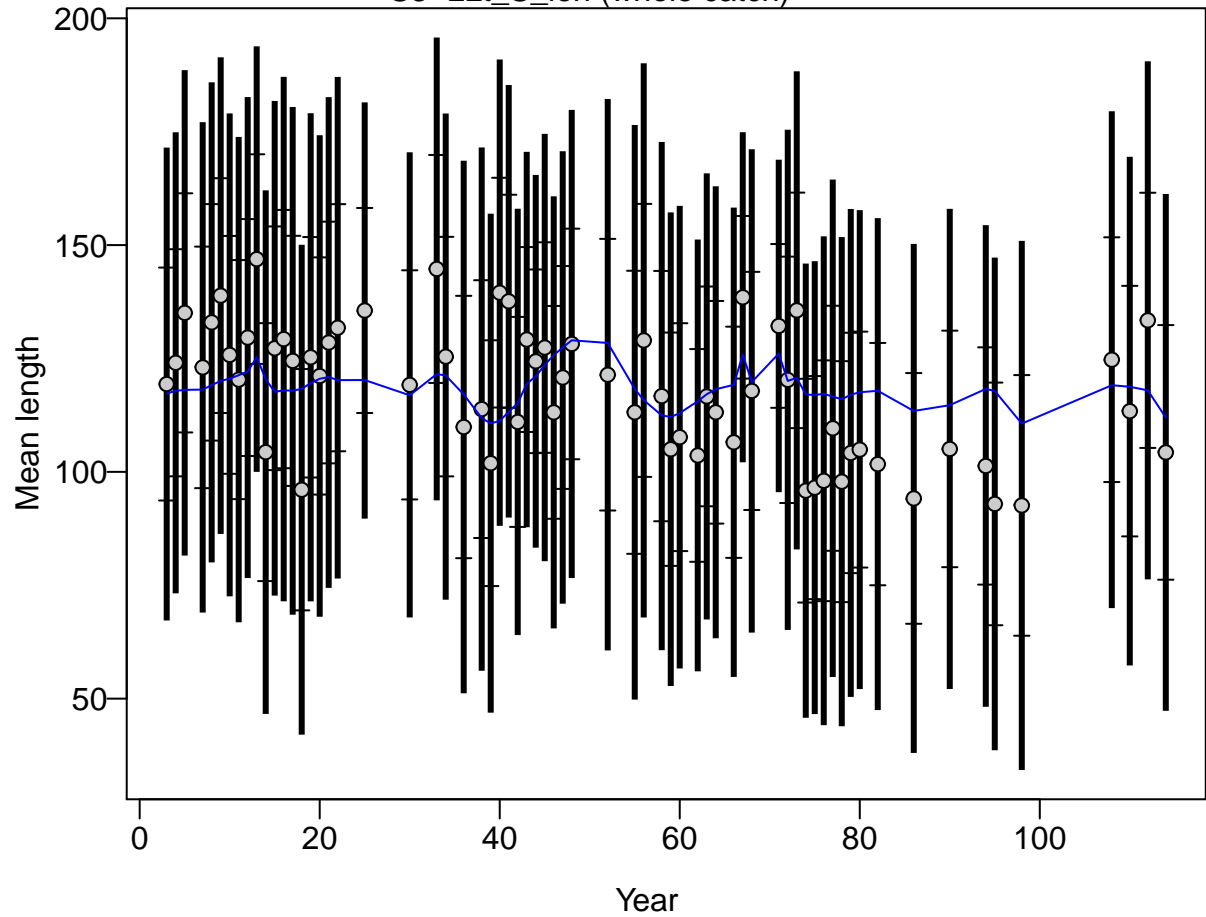




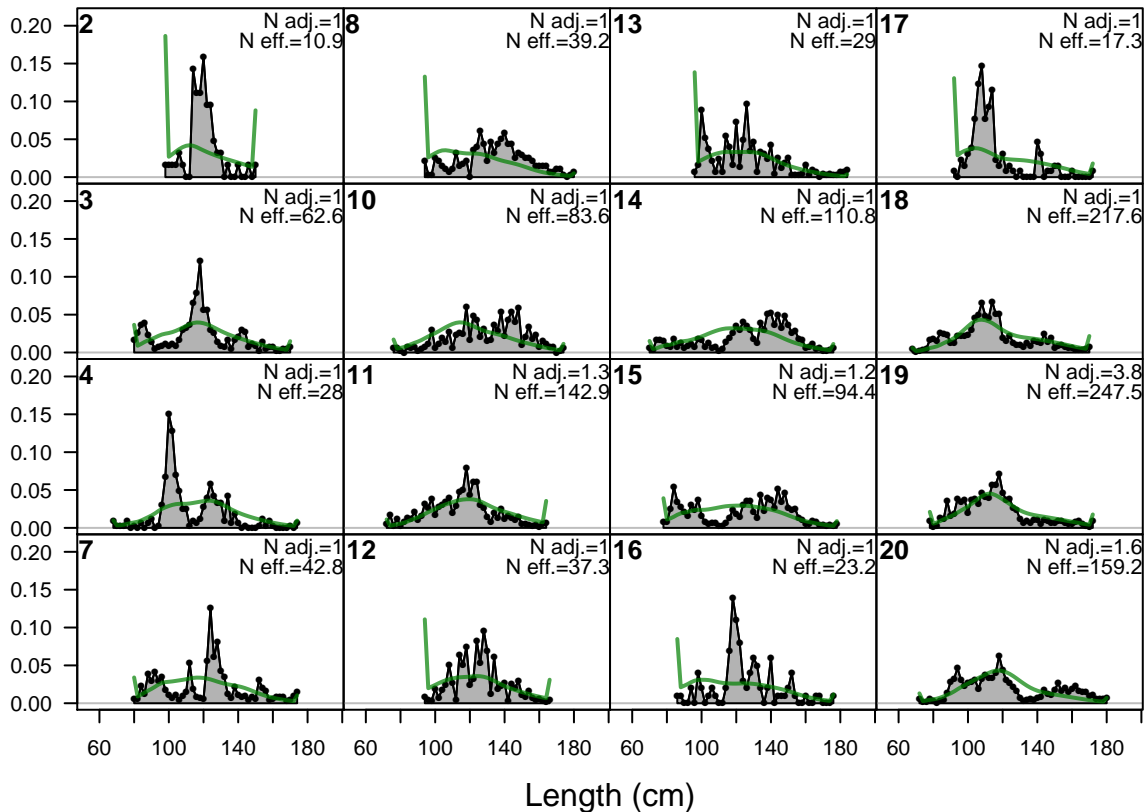
Length (cm)



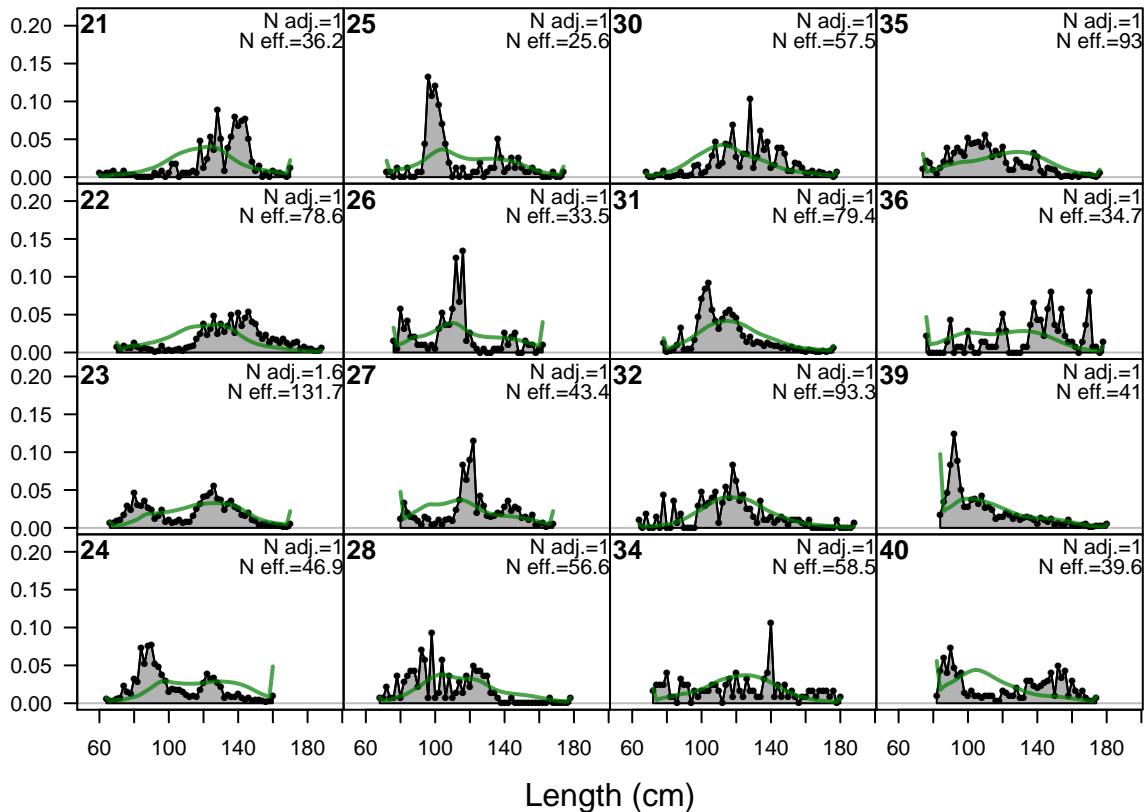
S3-LLt_S_len (whole catch)

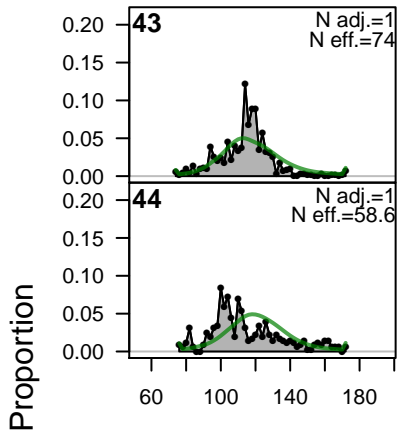


Proportion

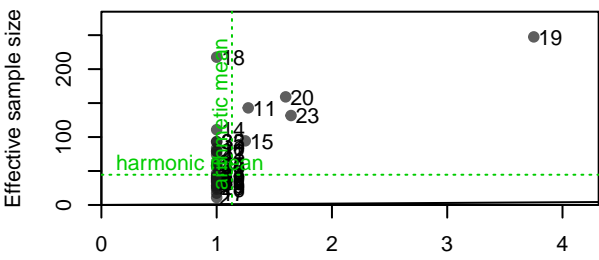
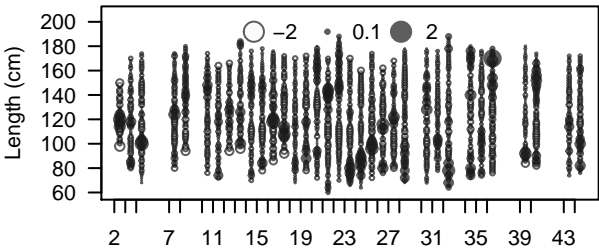


Proportion

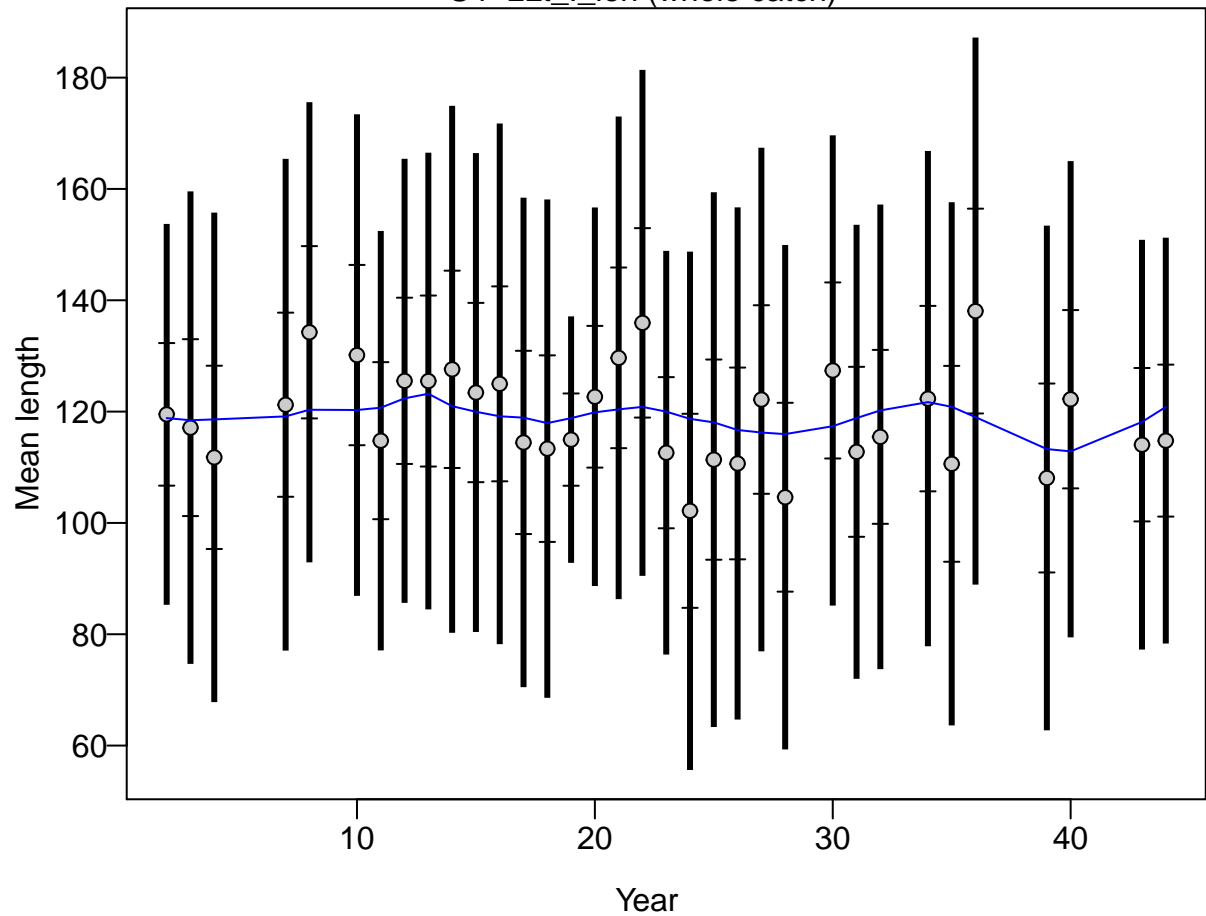




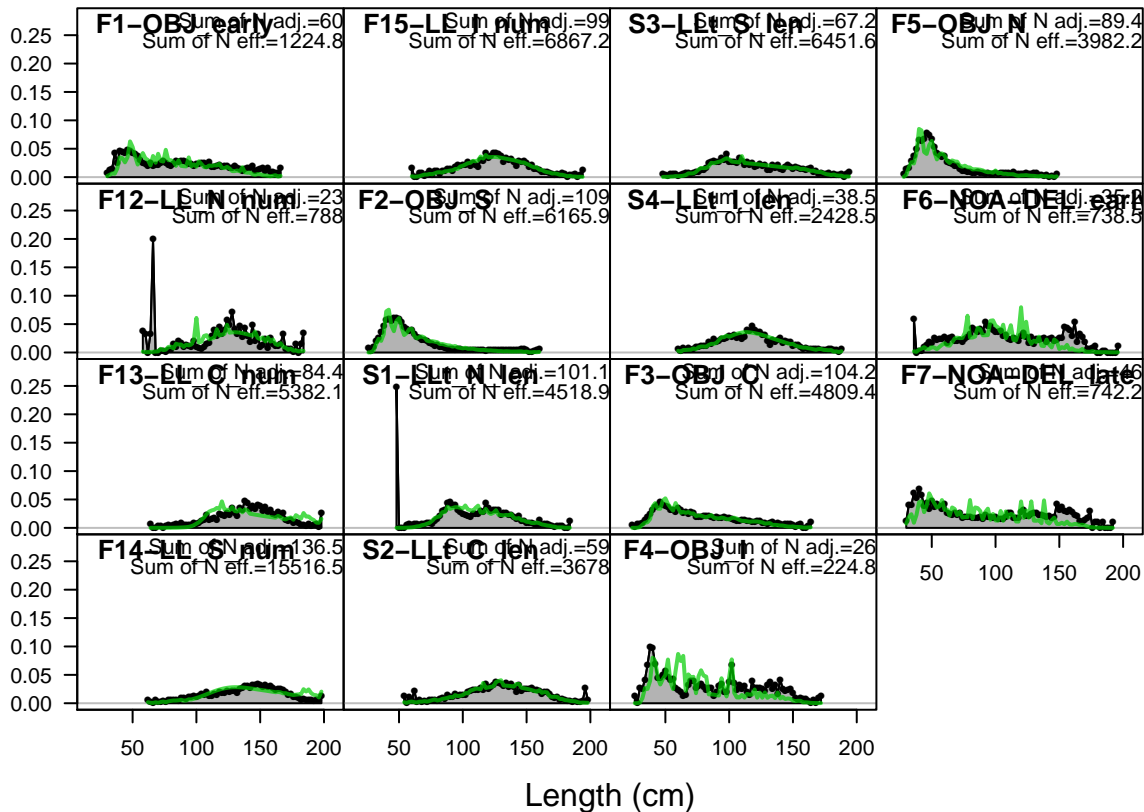
Length (cm)

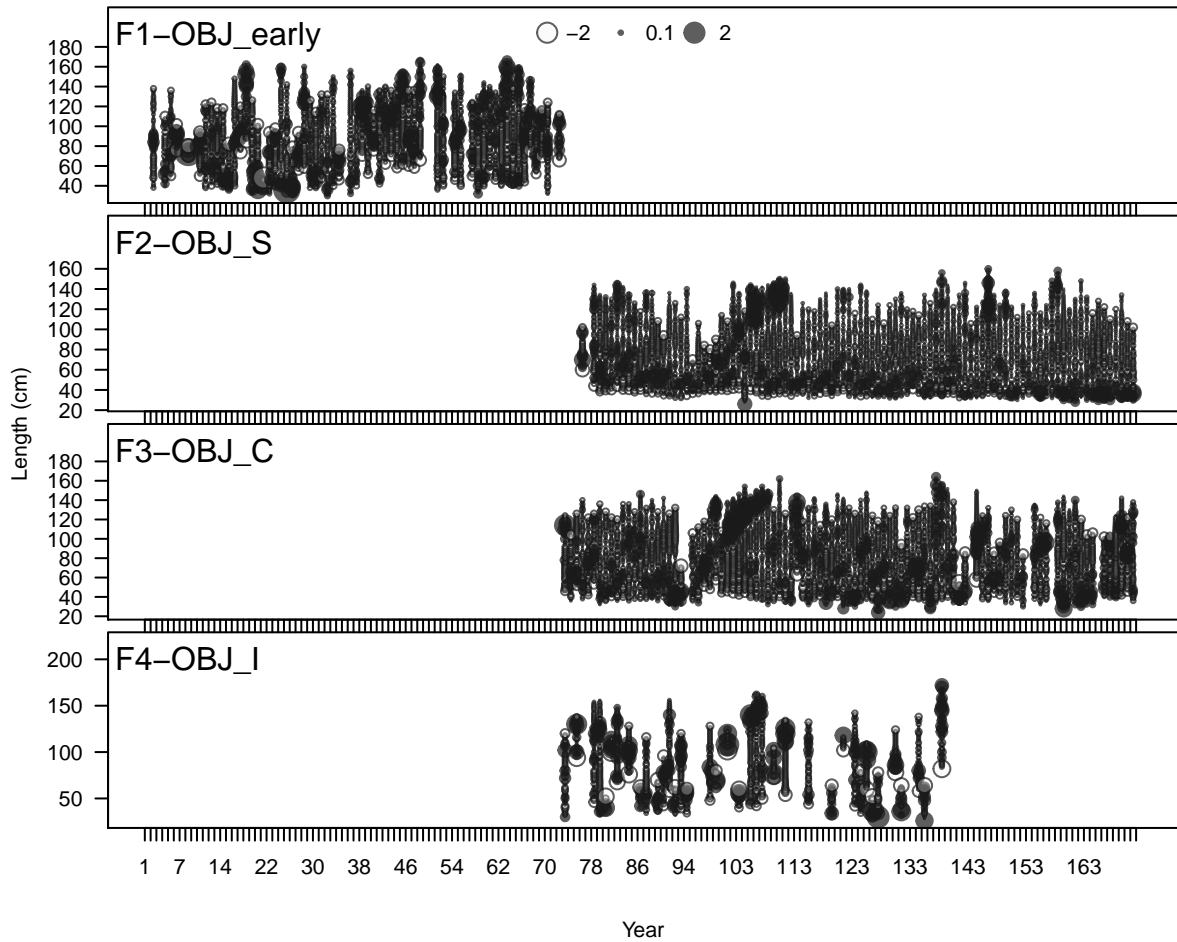


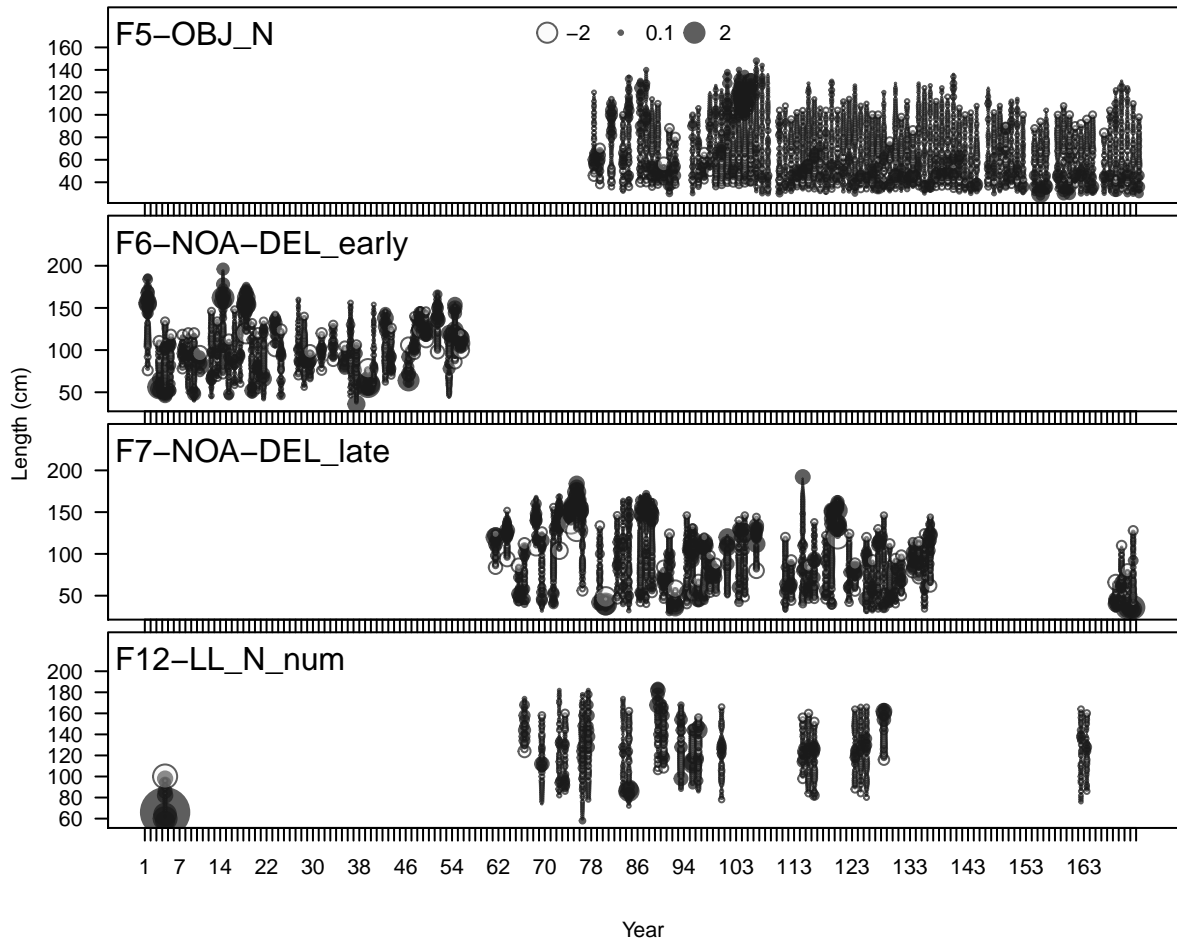
S4-LLt_I_len (whole catch)

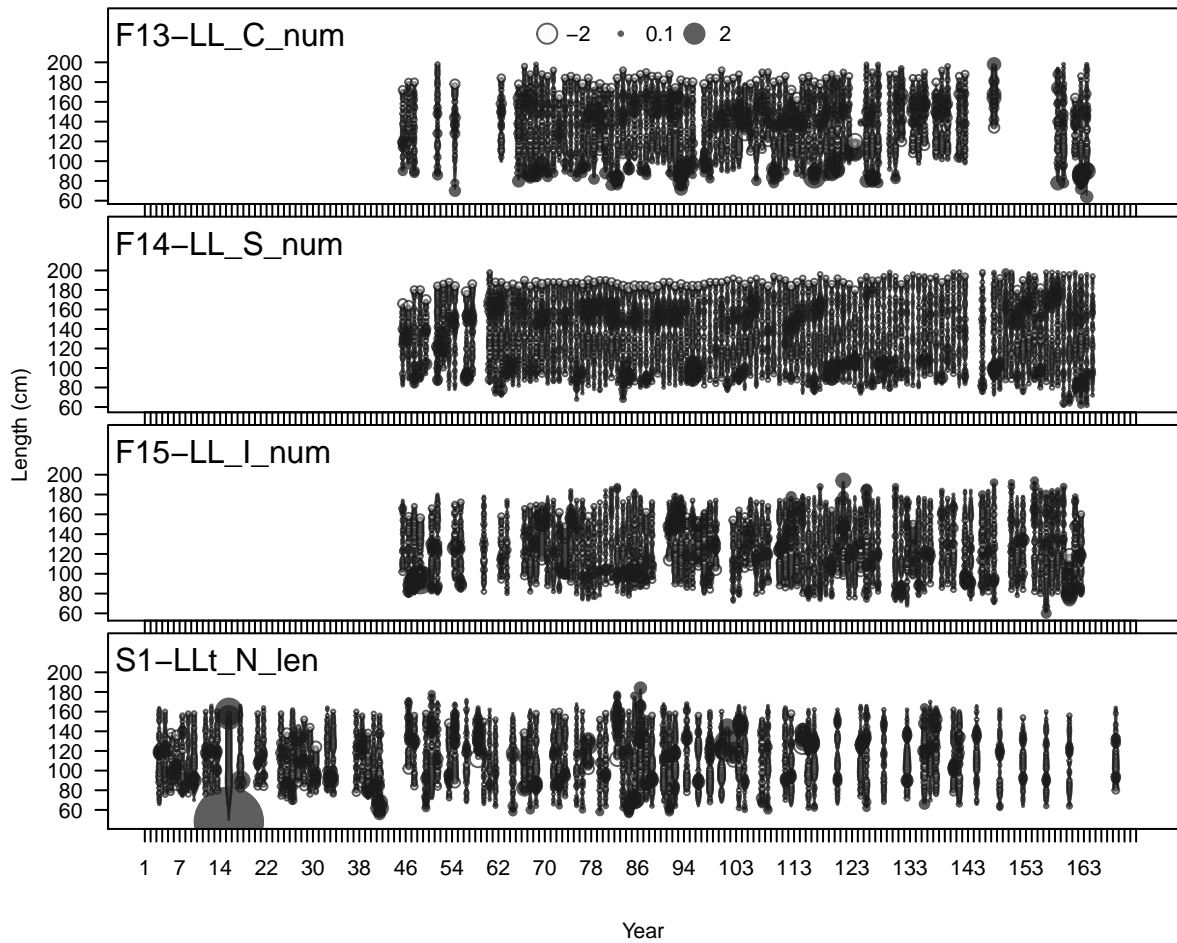


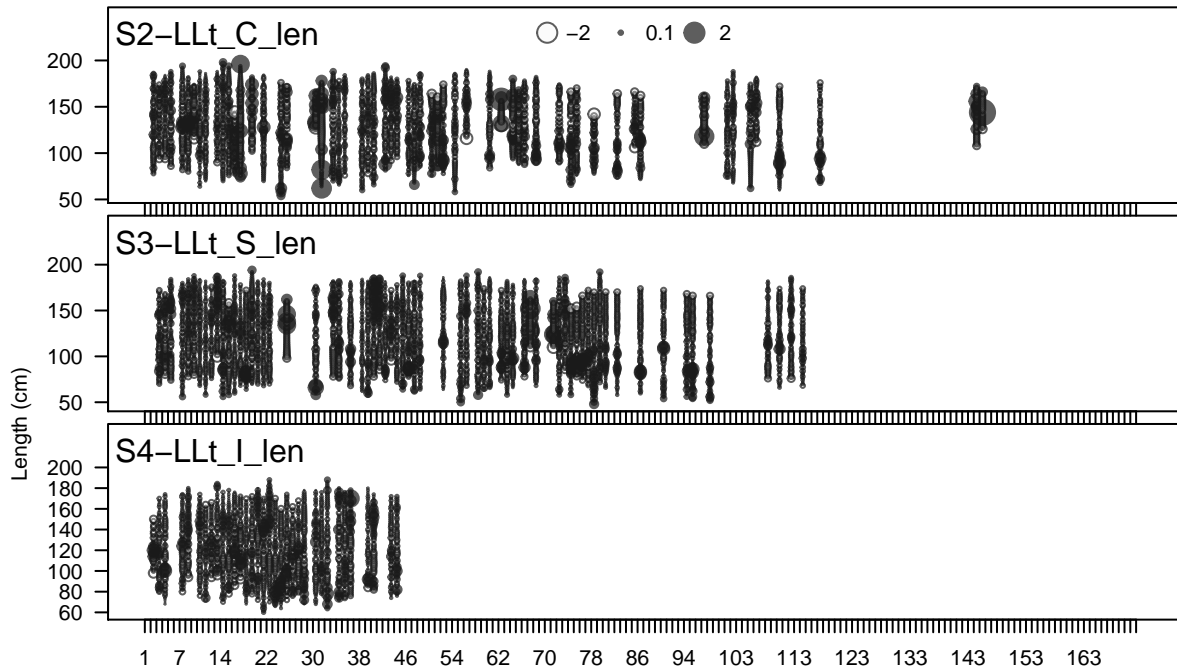
Proportion





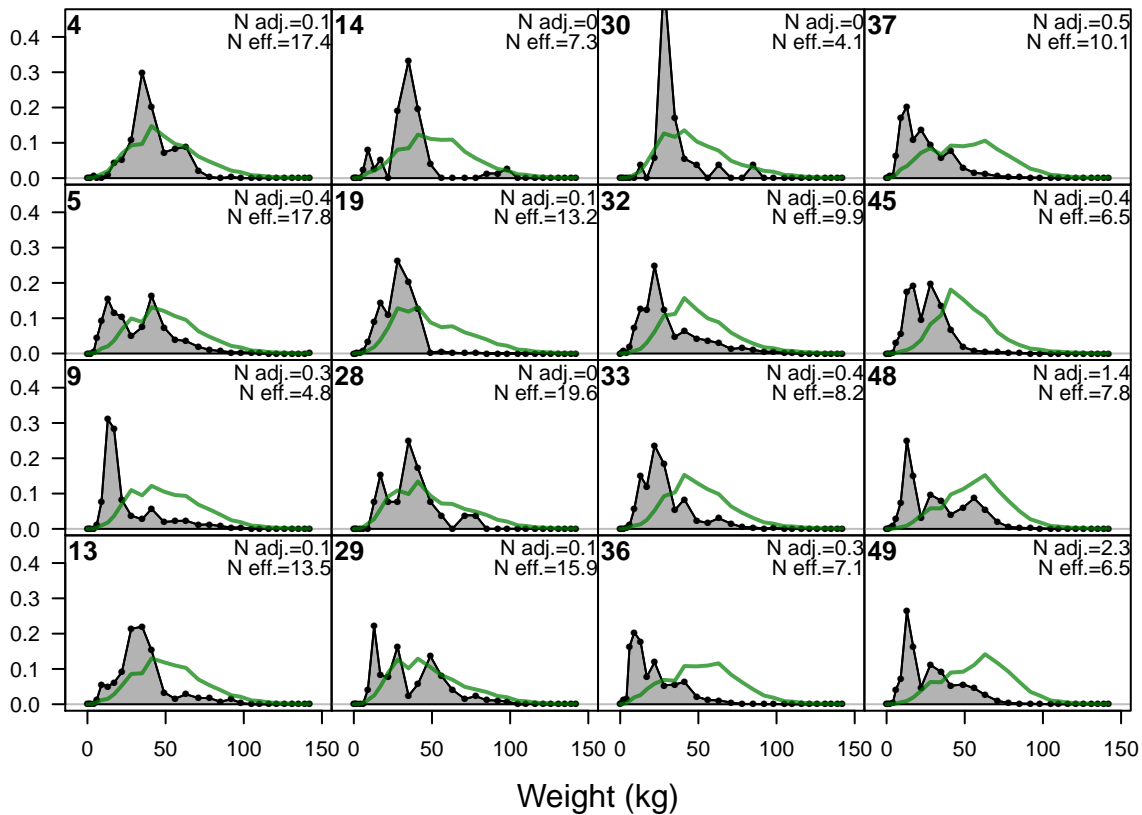




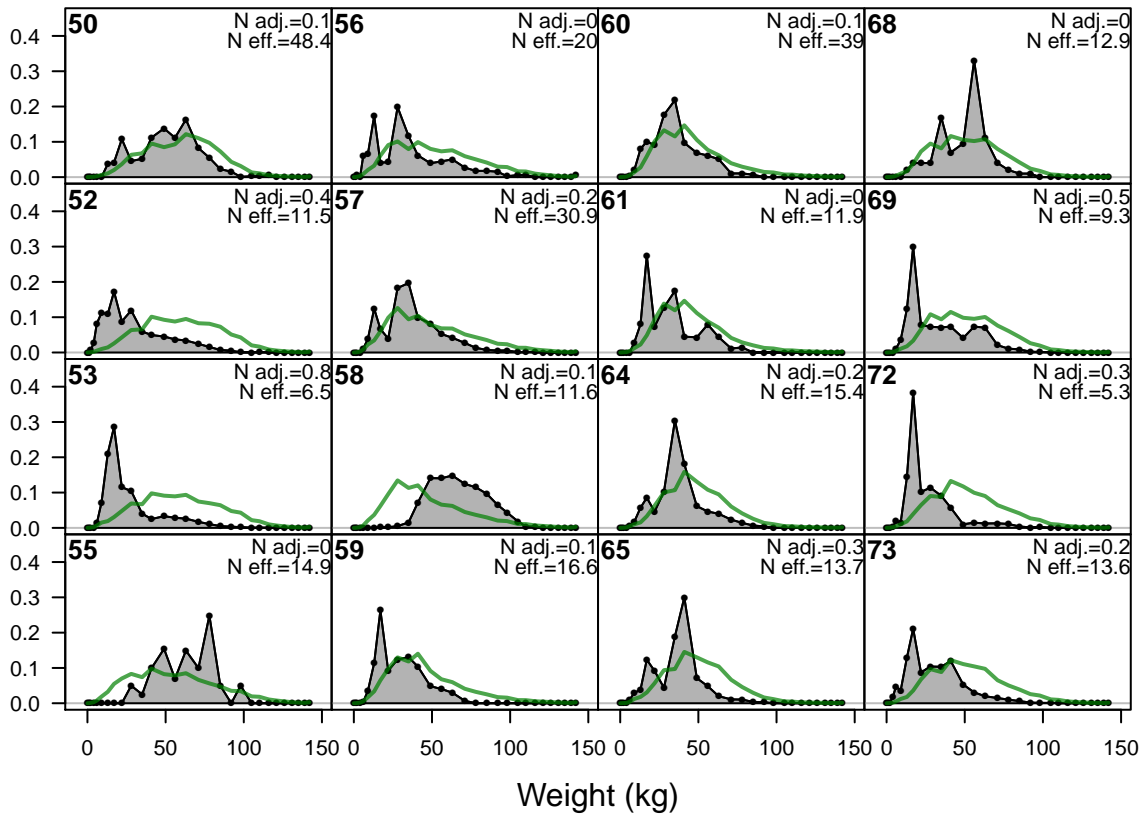


Year

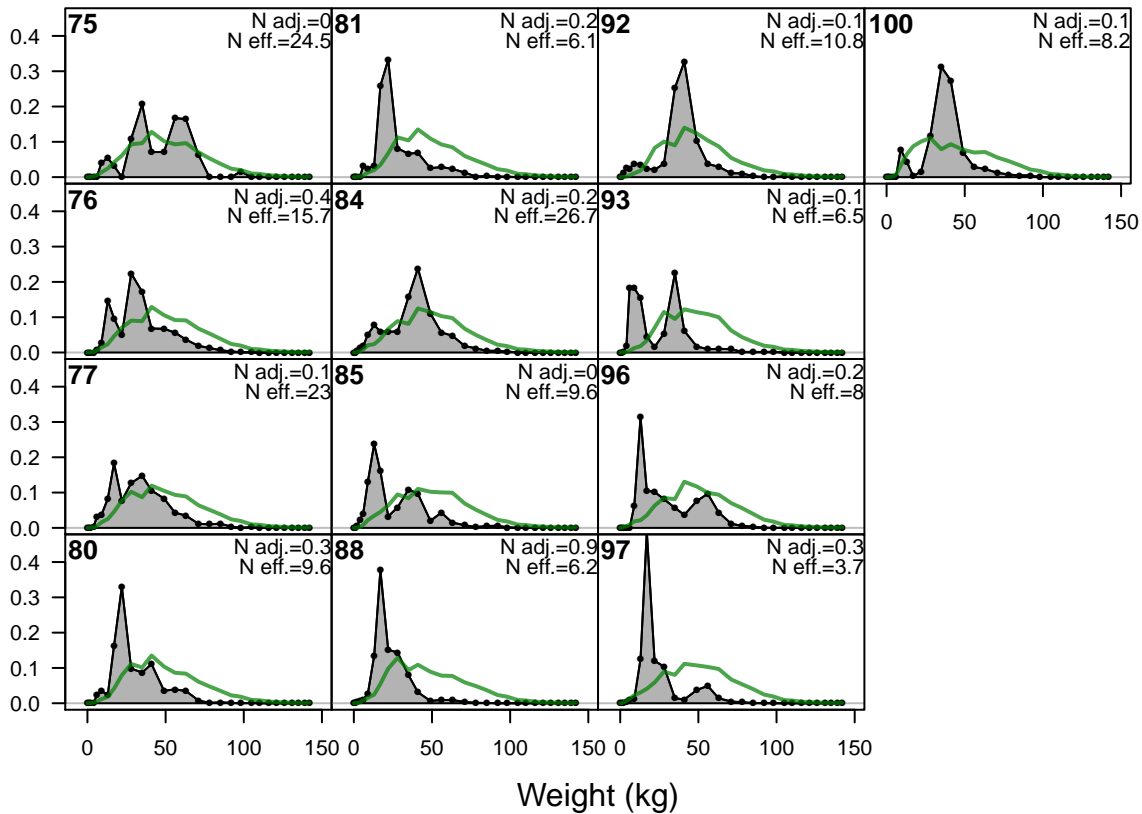
Proportion

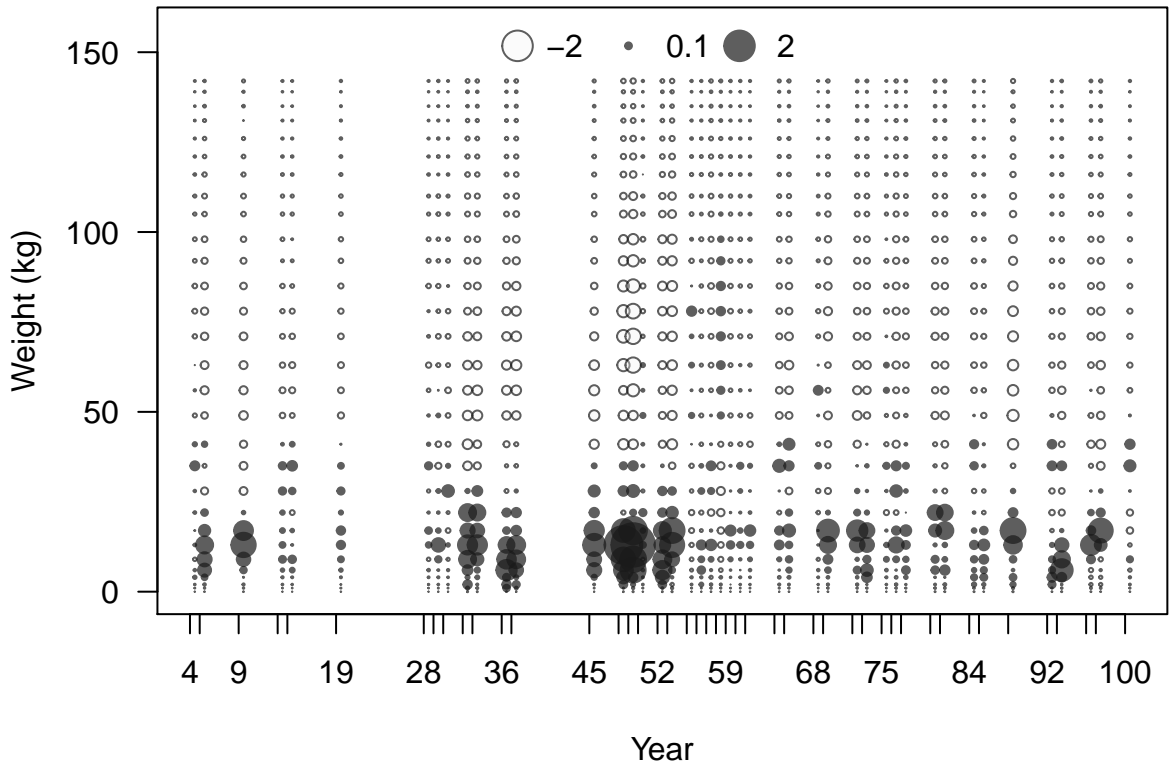


Proportion

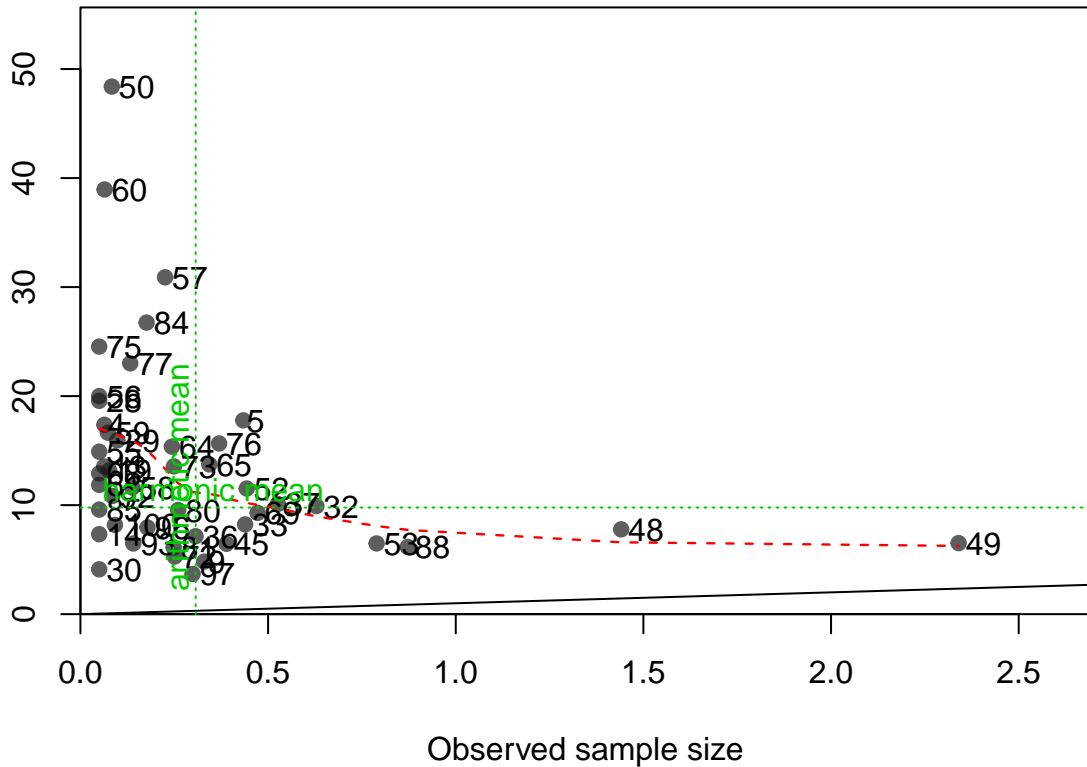


Proportion

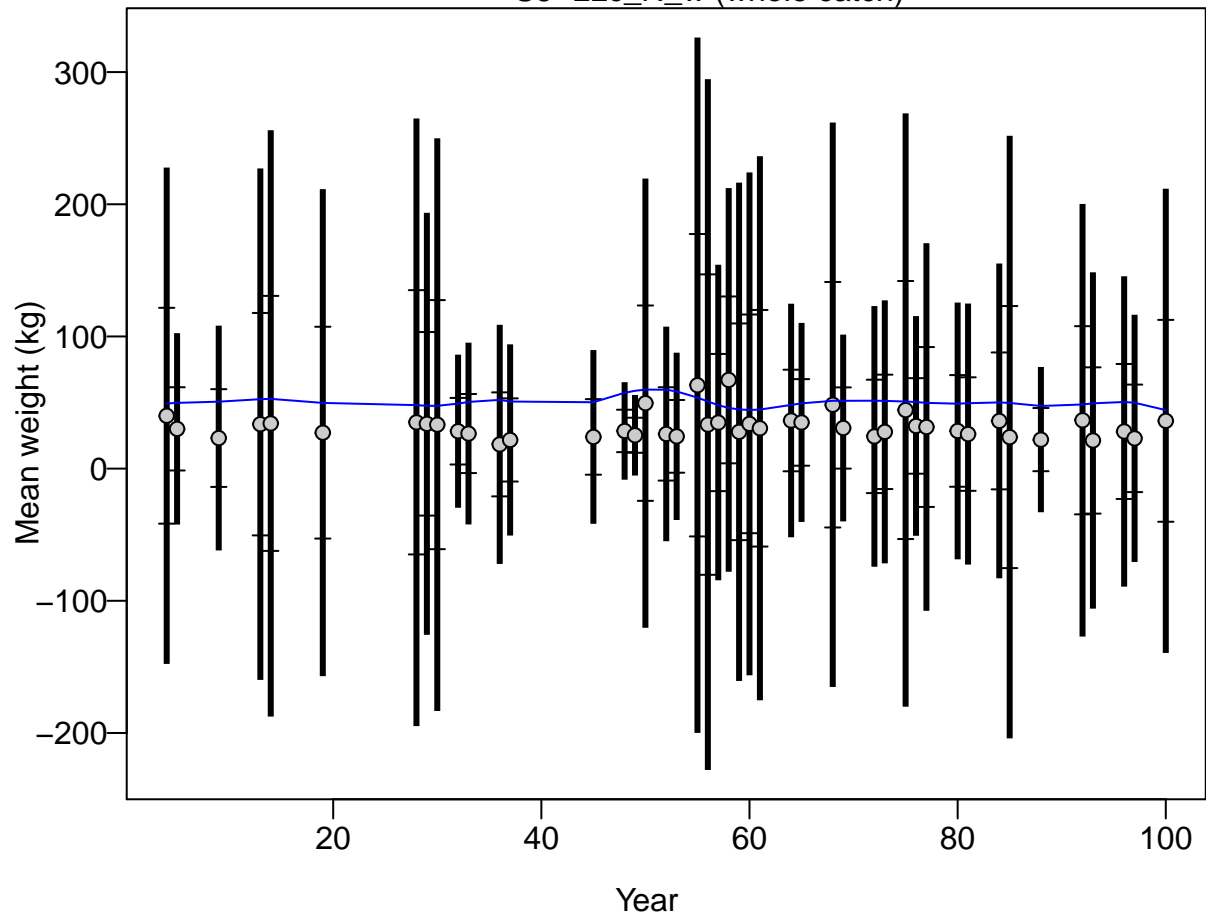




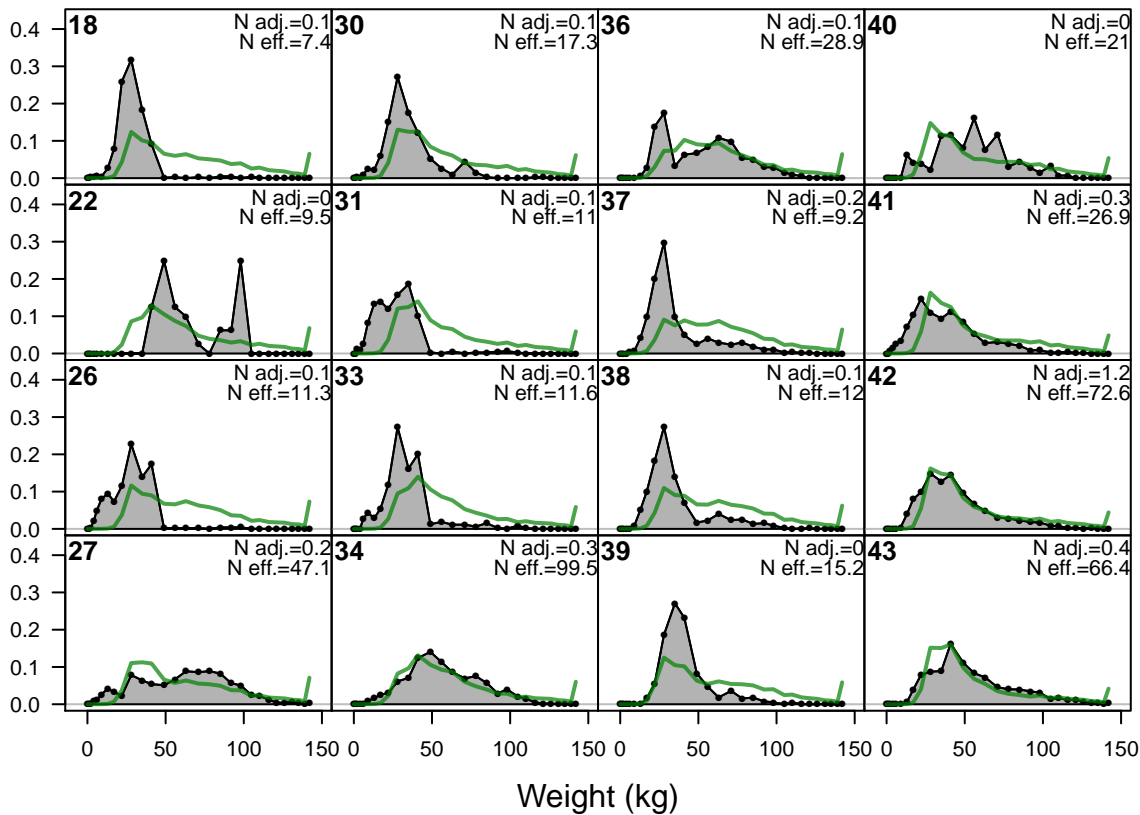
Effective sample size



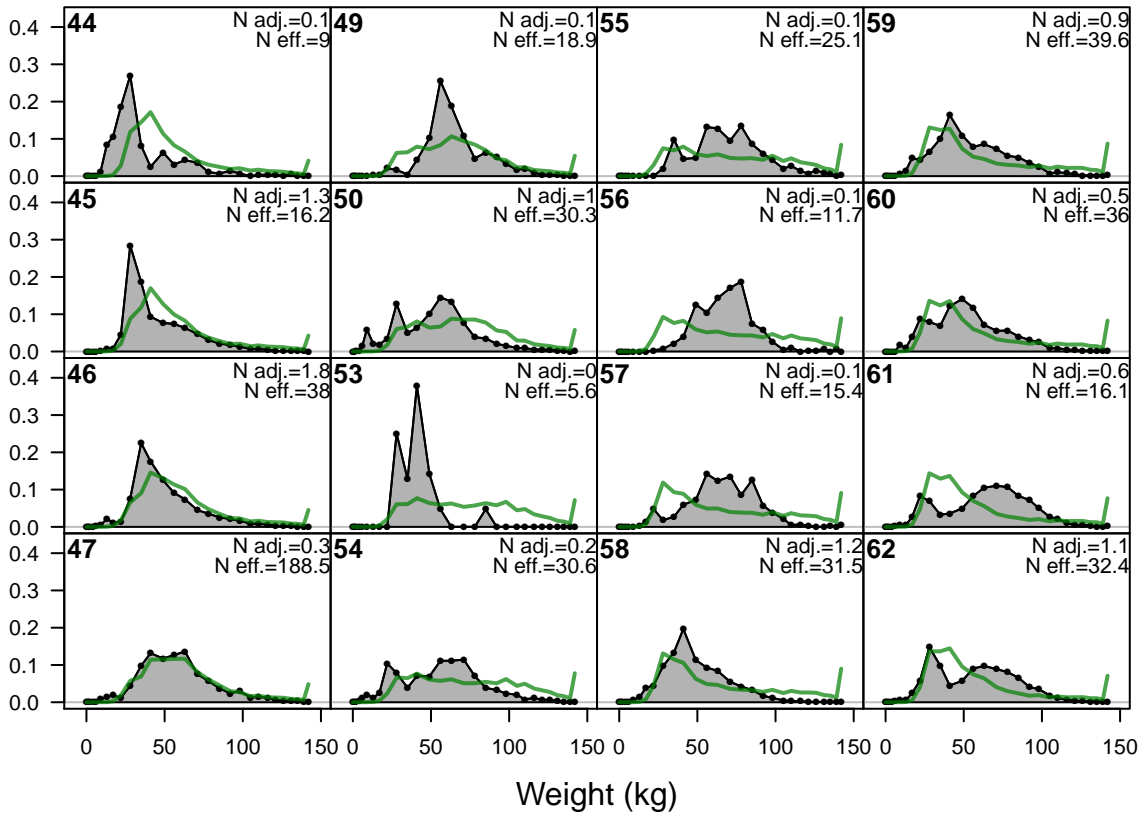
S5-LLc_N_w (whole catch)



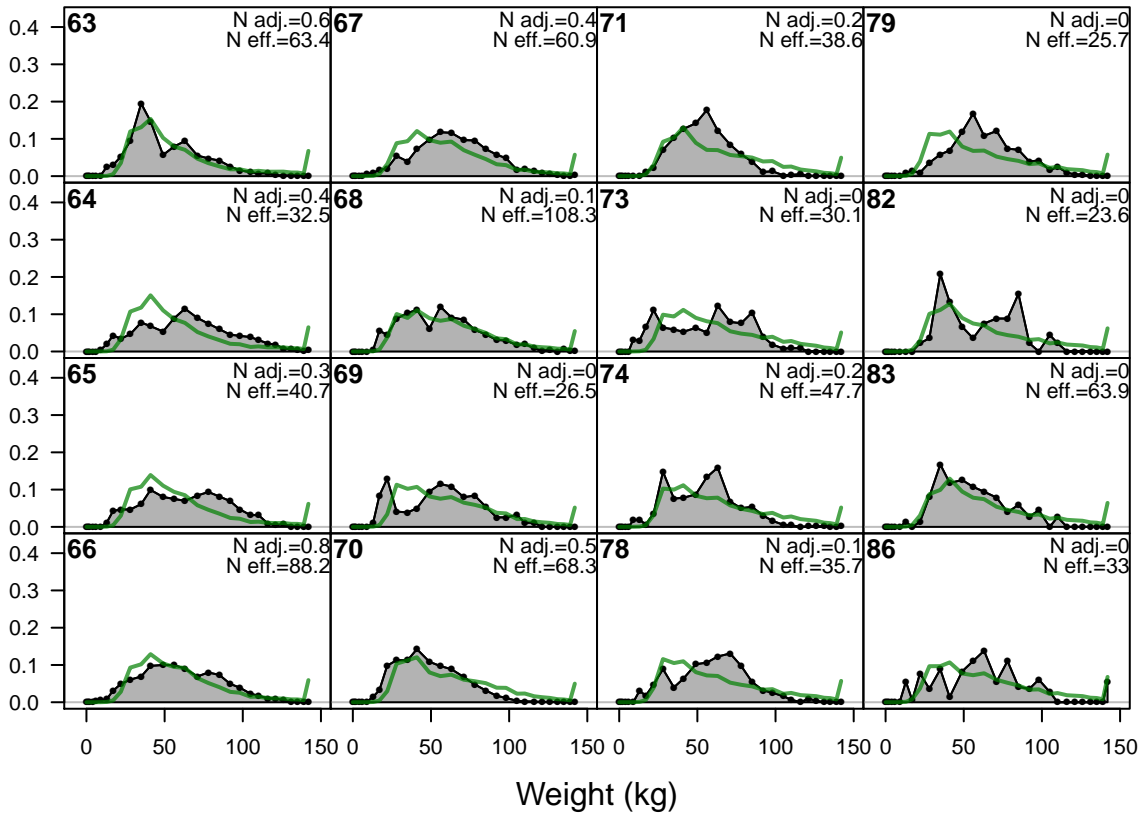
Proportion

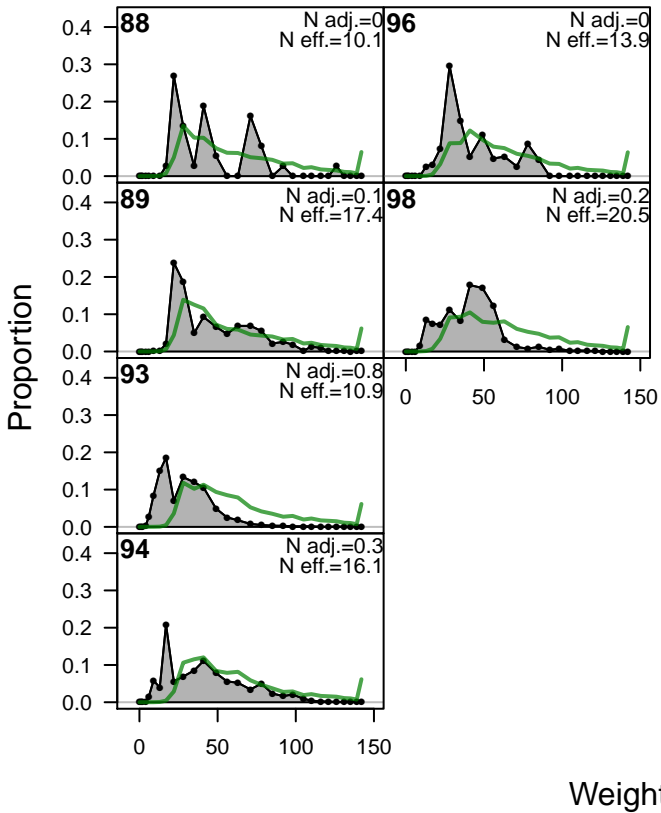


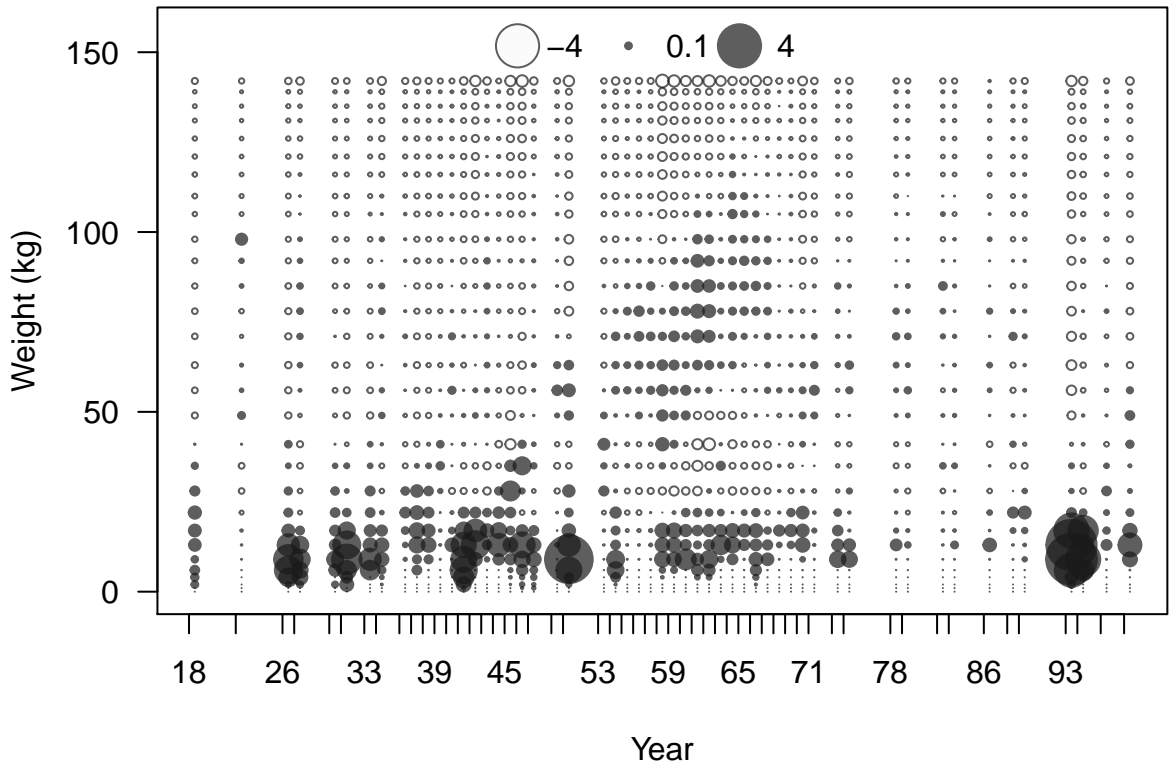
Proportion

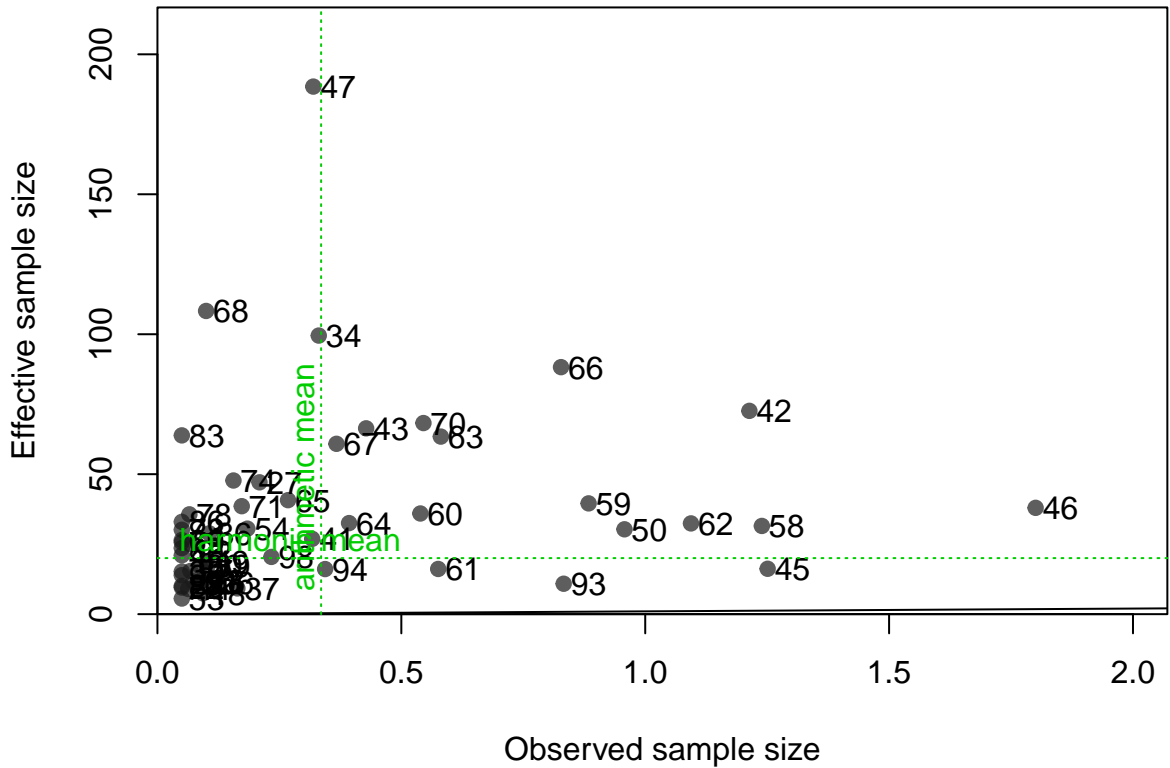


Proportion

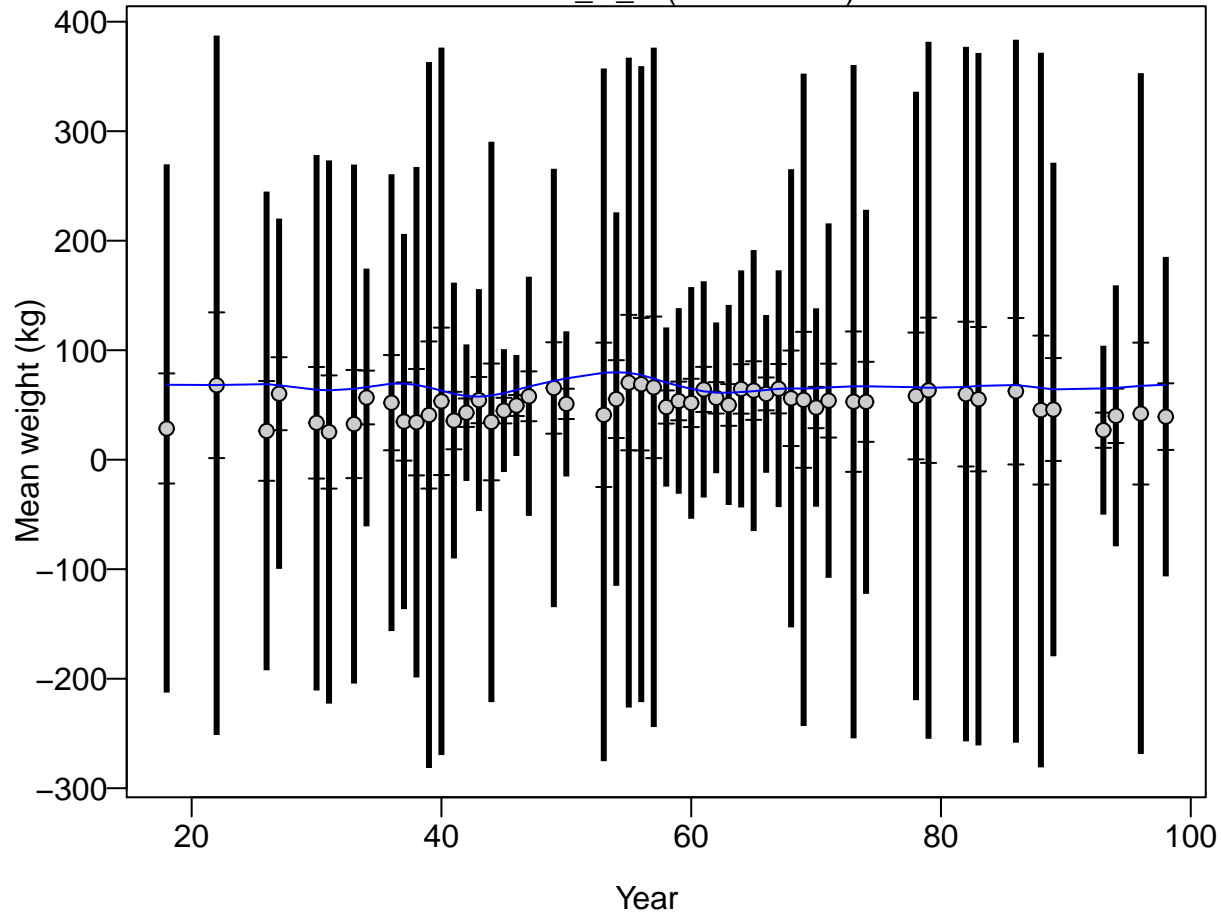




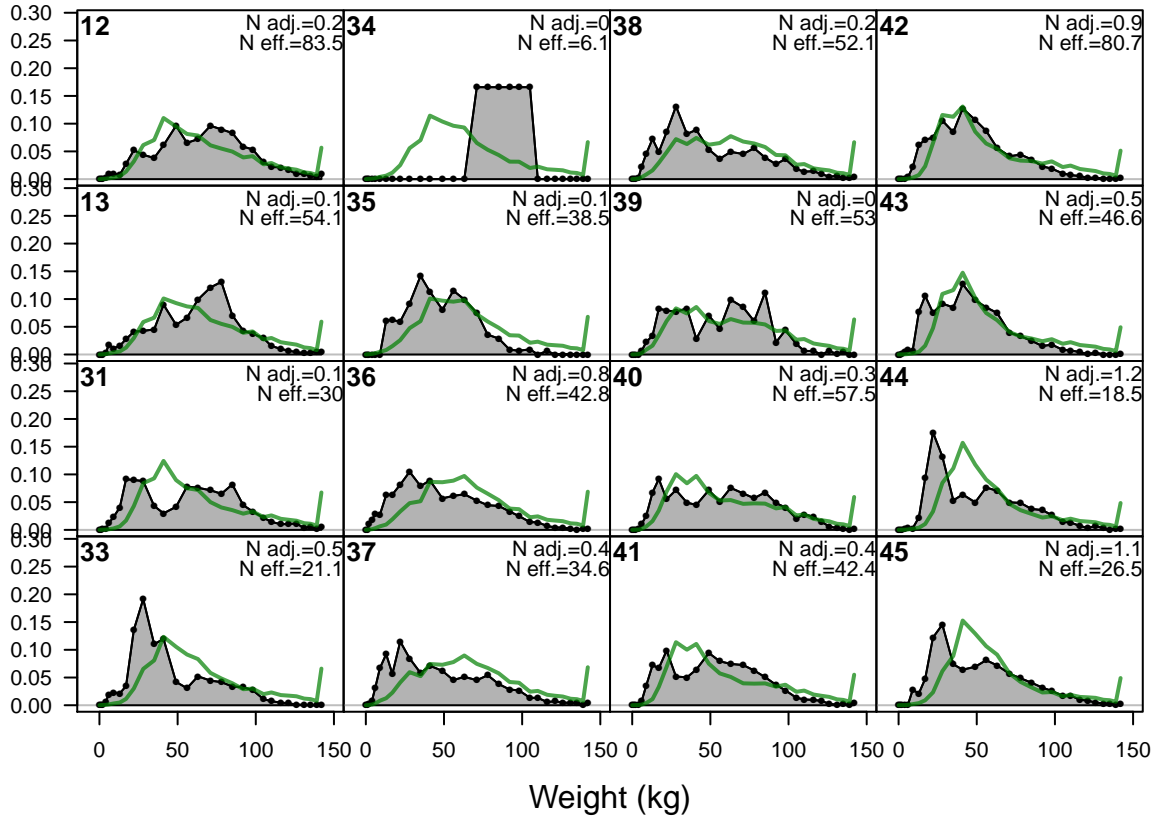




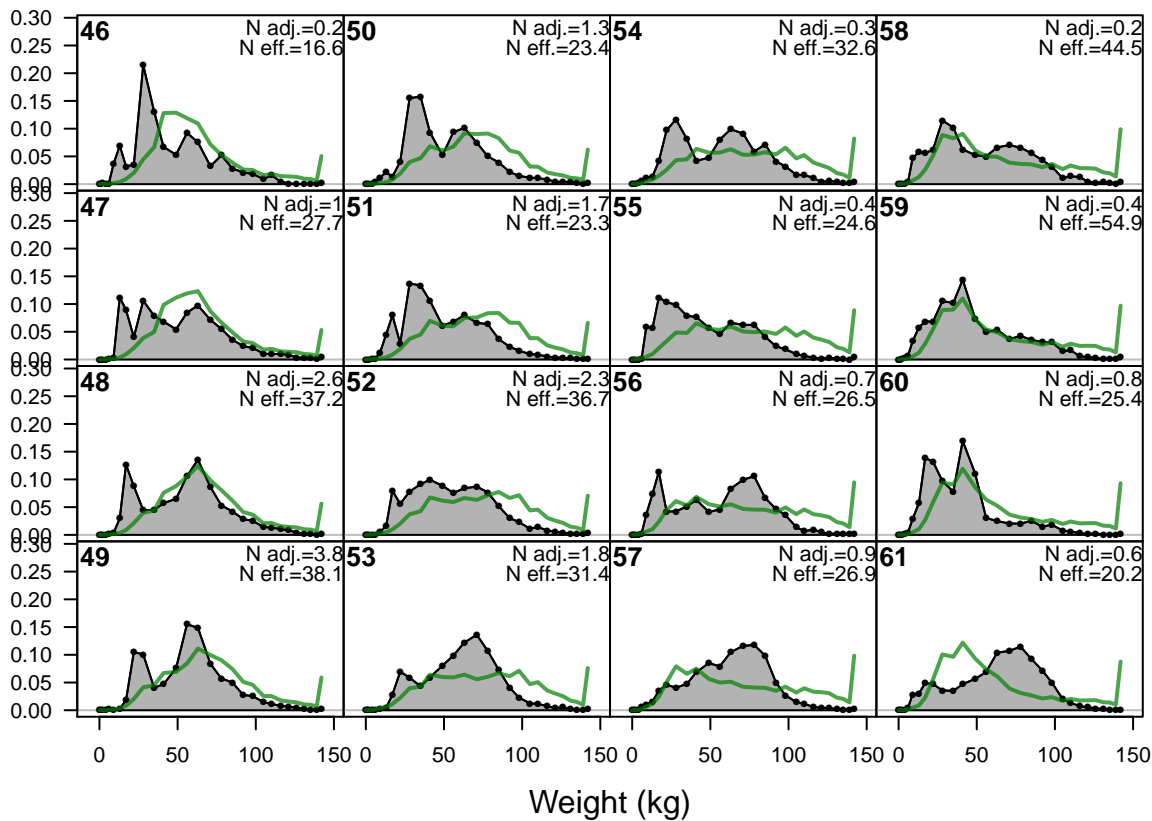
S6-LLc_C_w (whole catch)



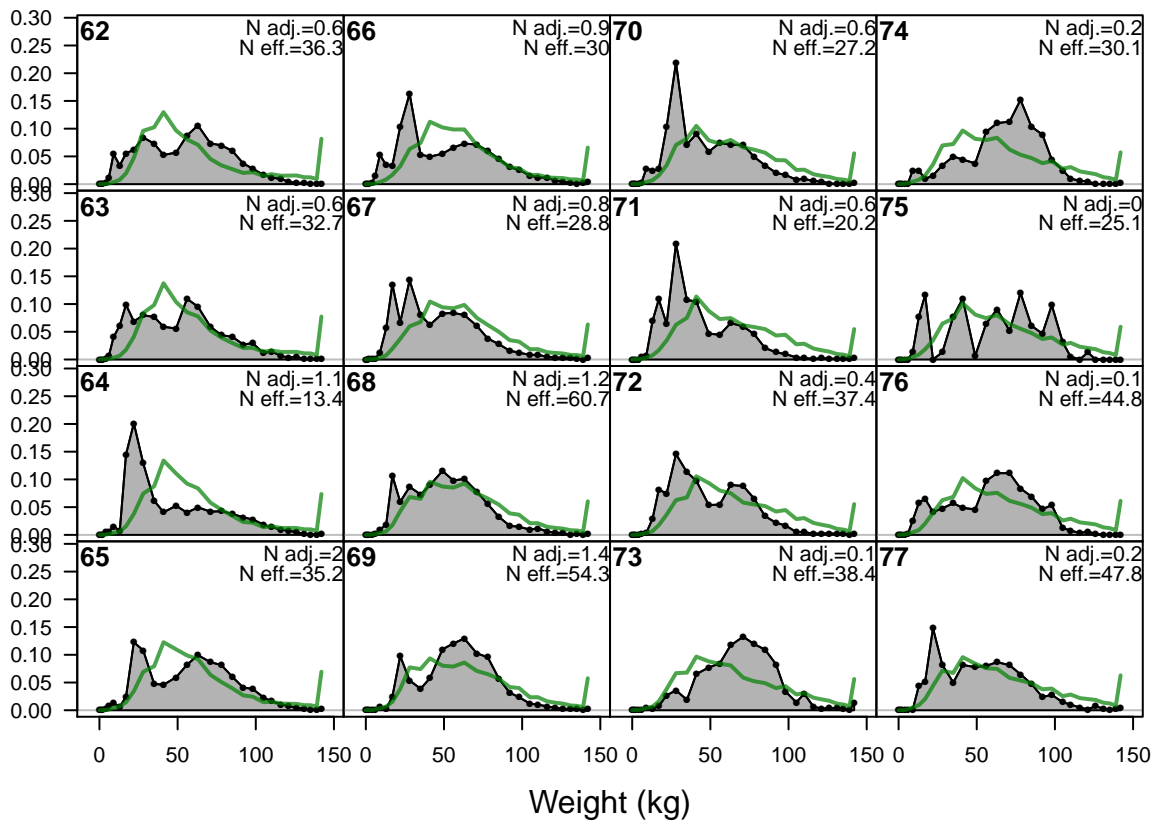
Proportion



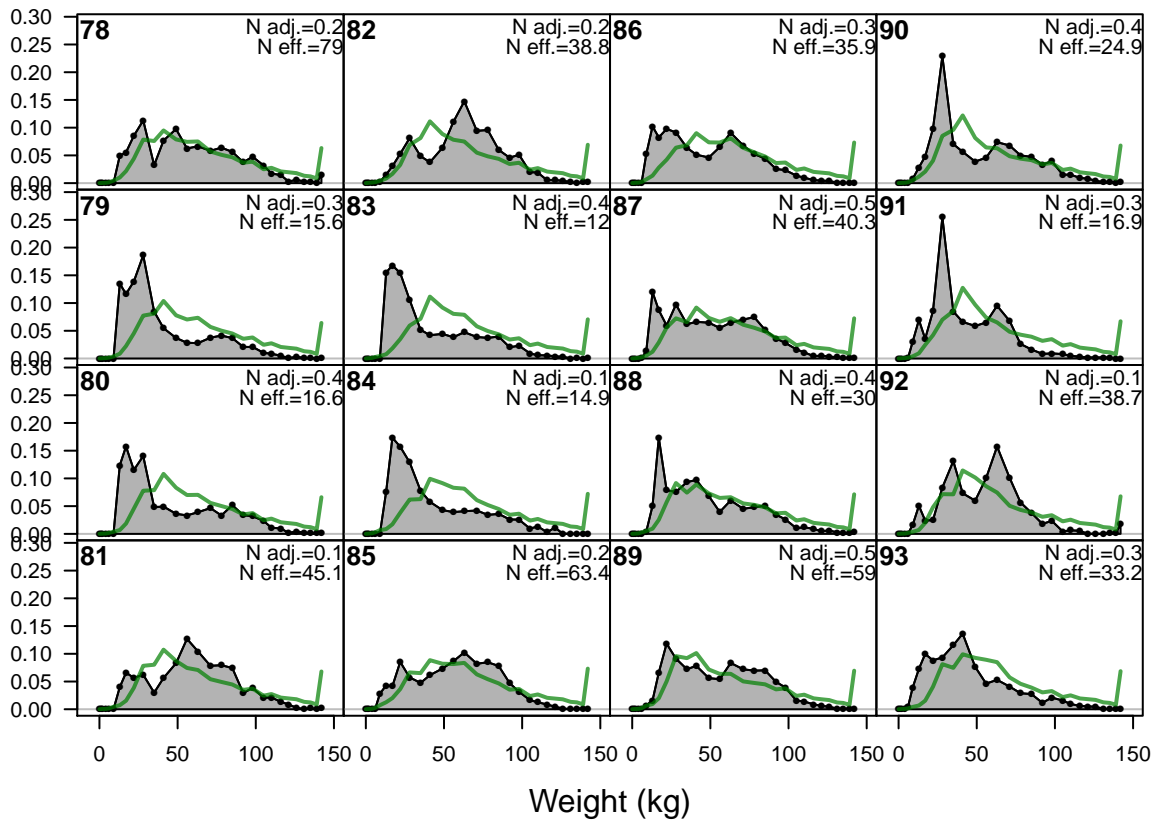
Proportion



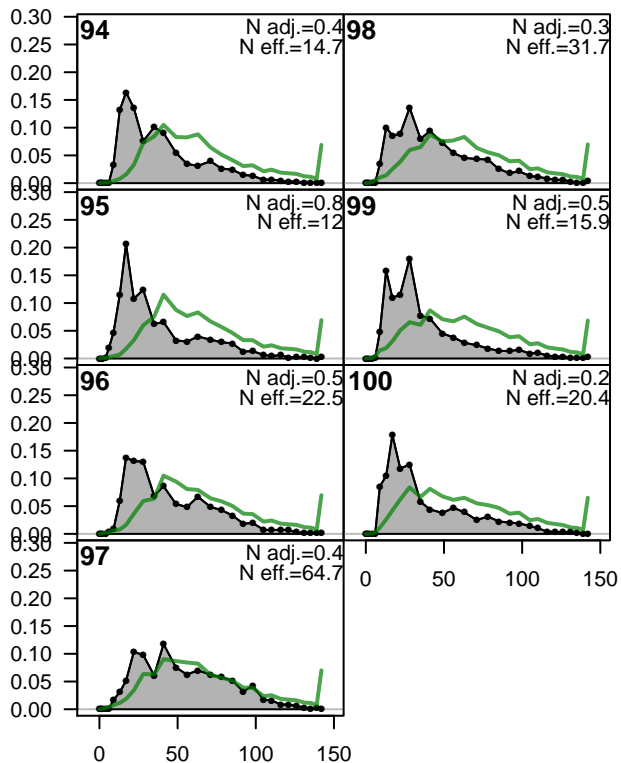
Proportion



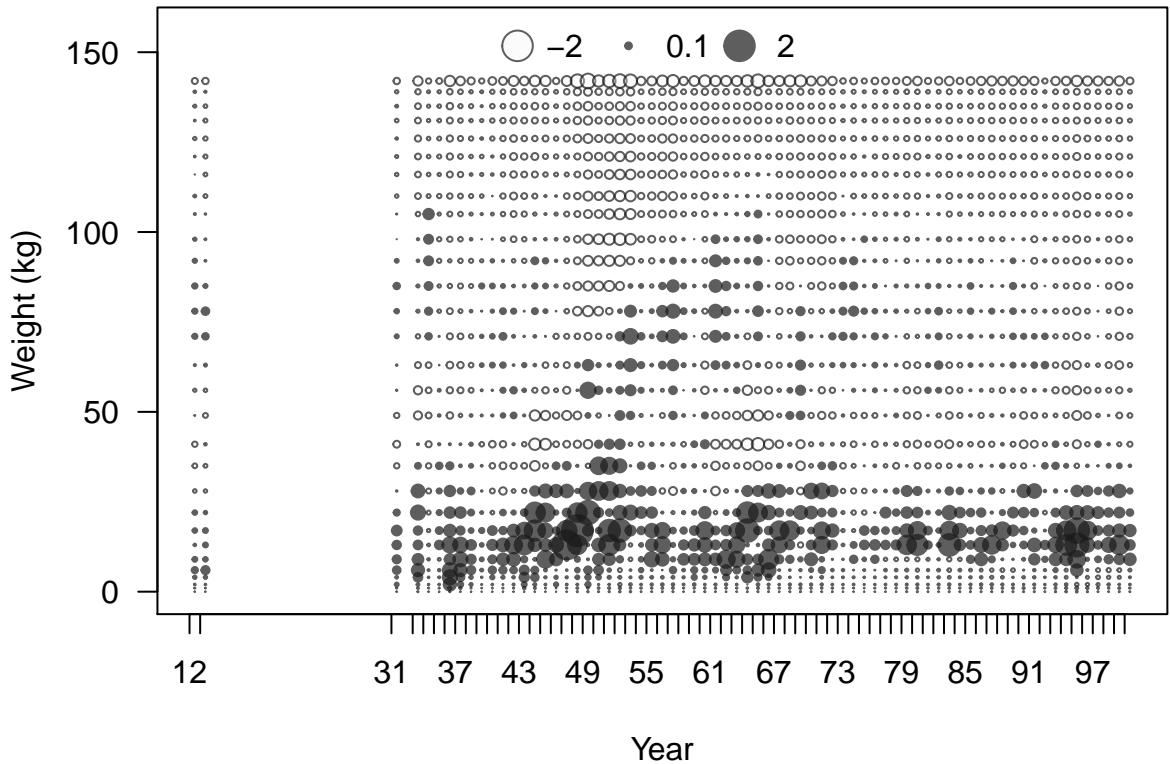
Proportion



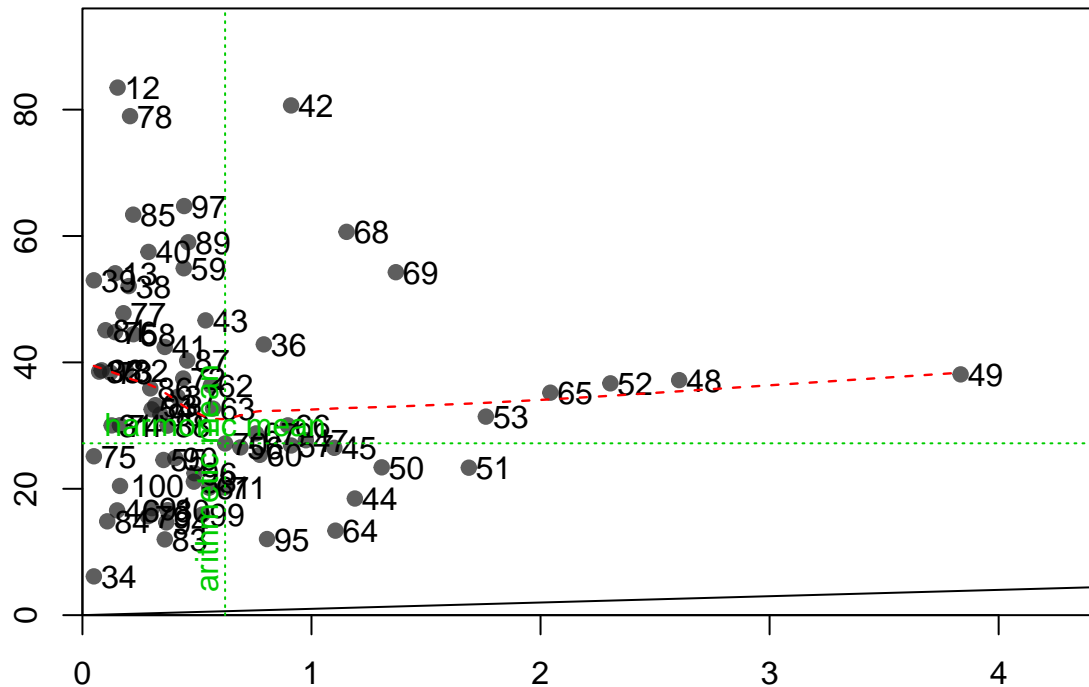
Proportion



Weight (kg)

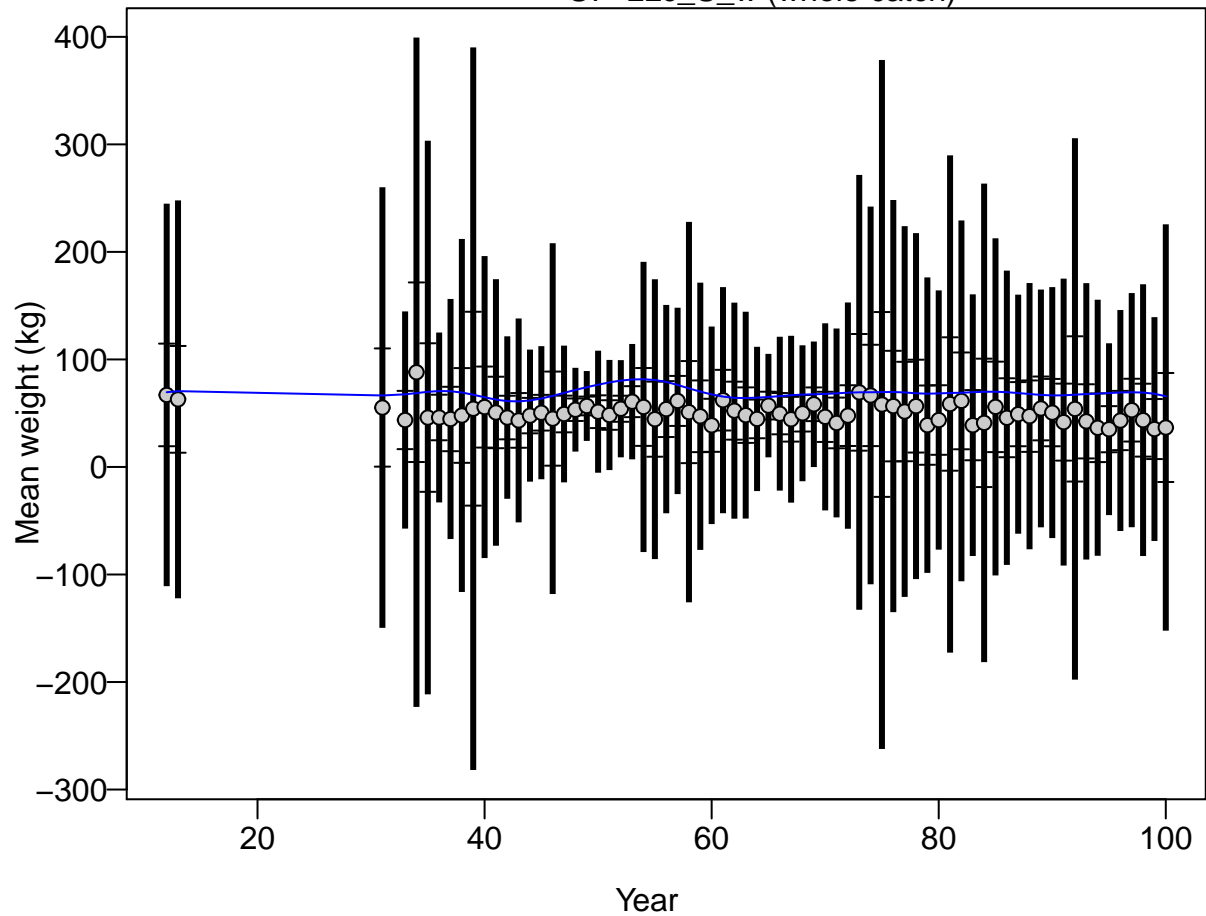


Effective sample size

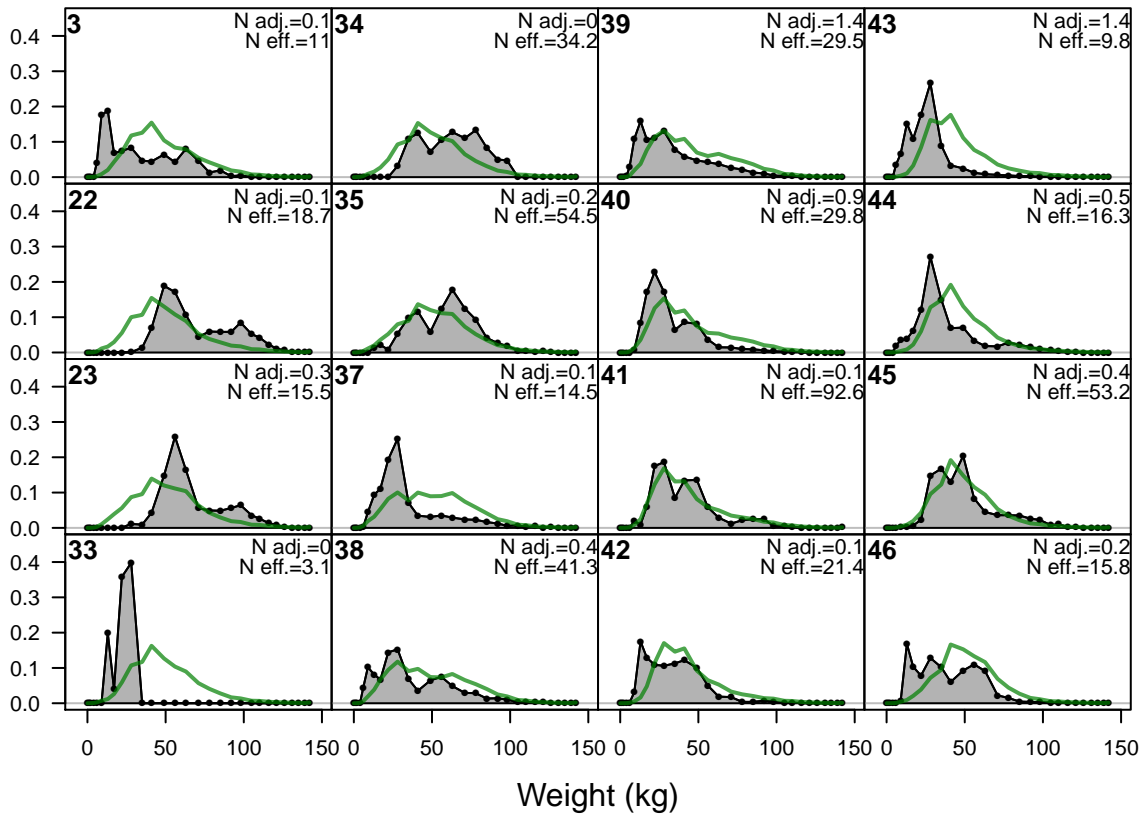


Observed sample size

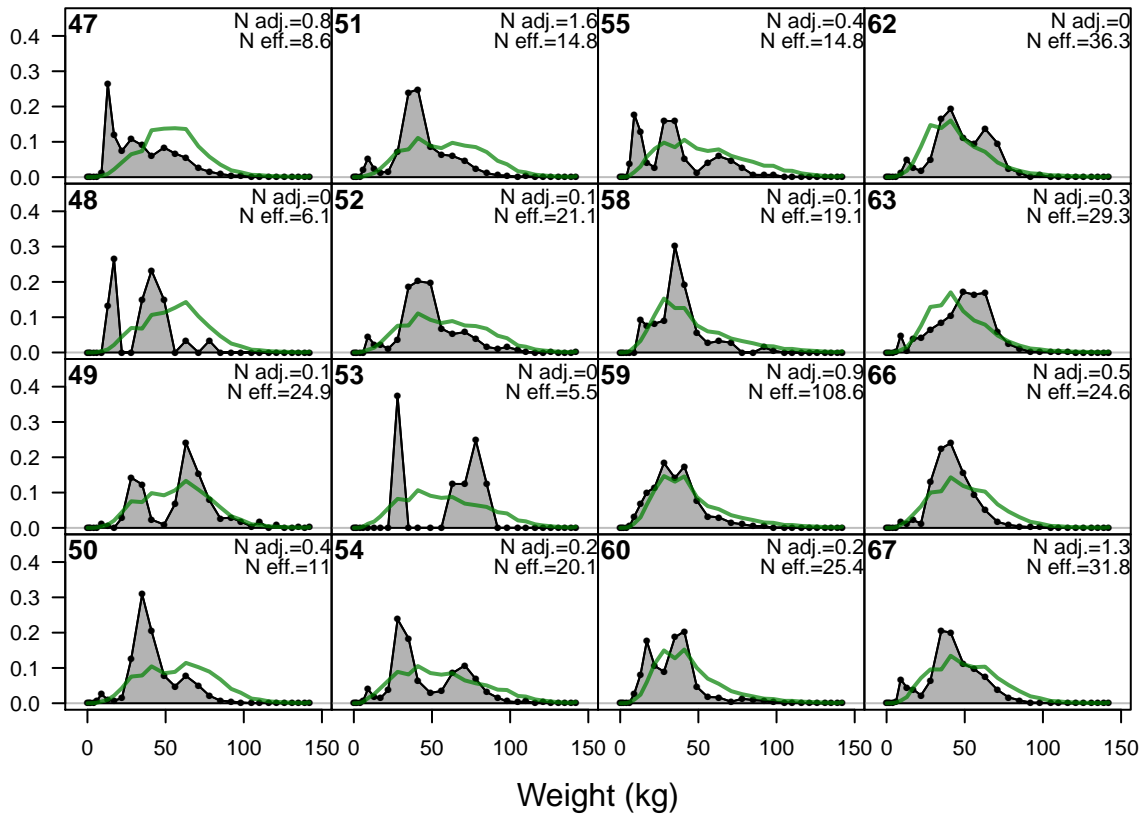
S7-LLc_S_w (whole catch)



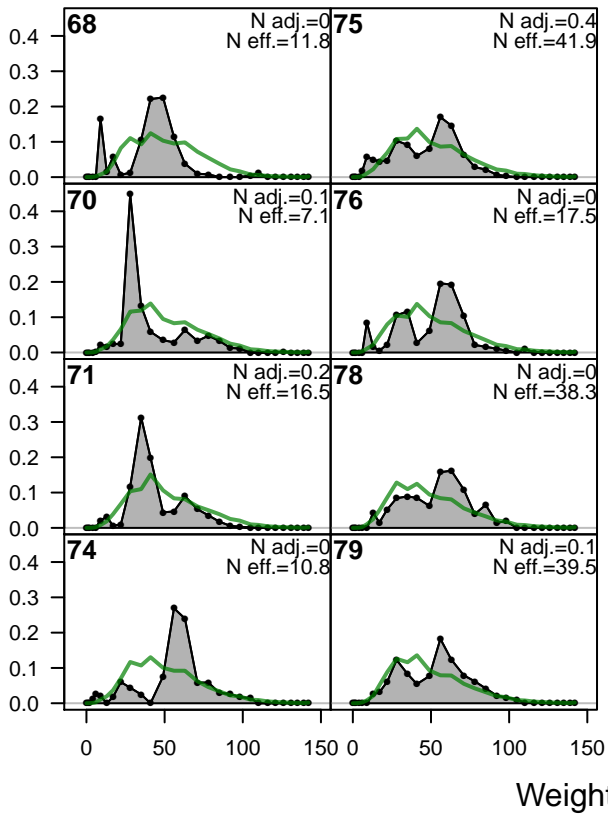
Proportion

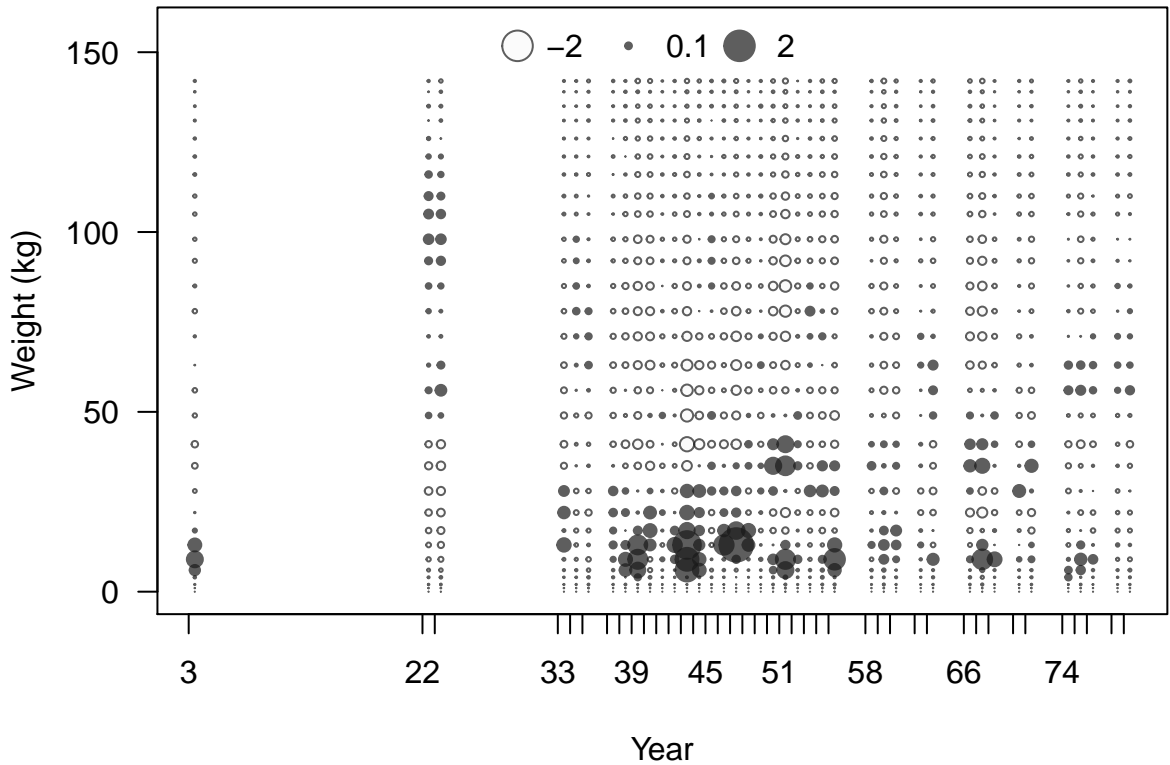


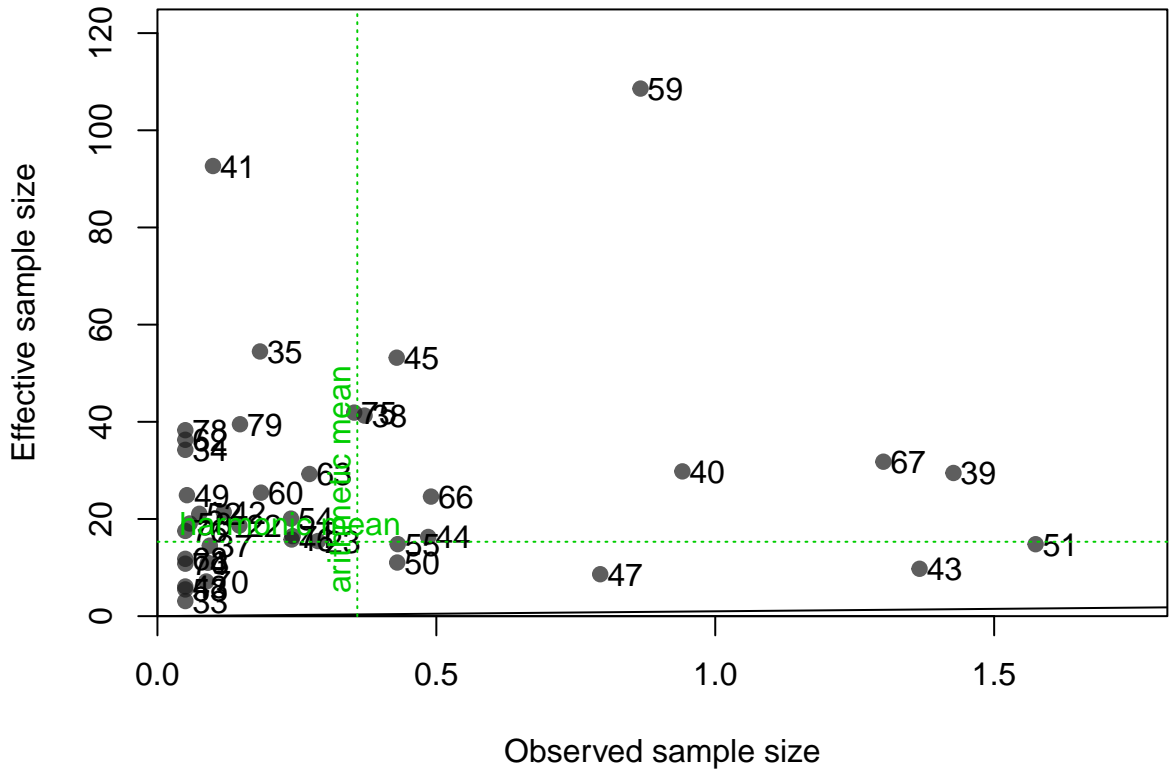
Proportion



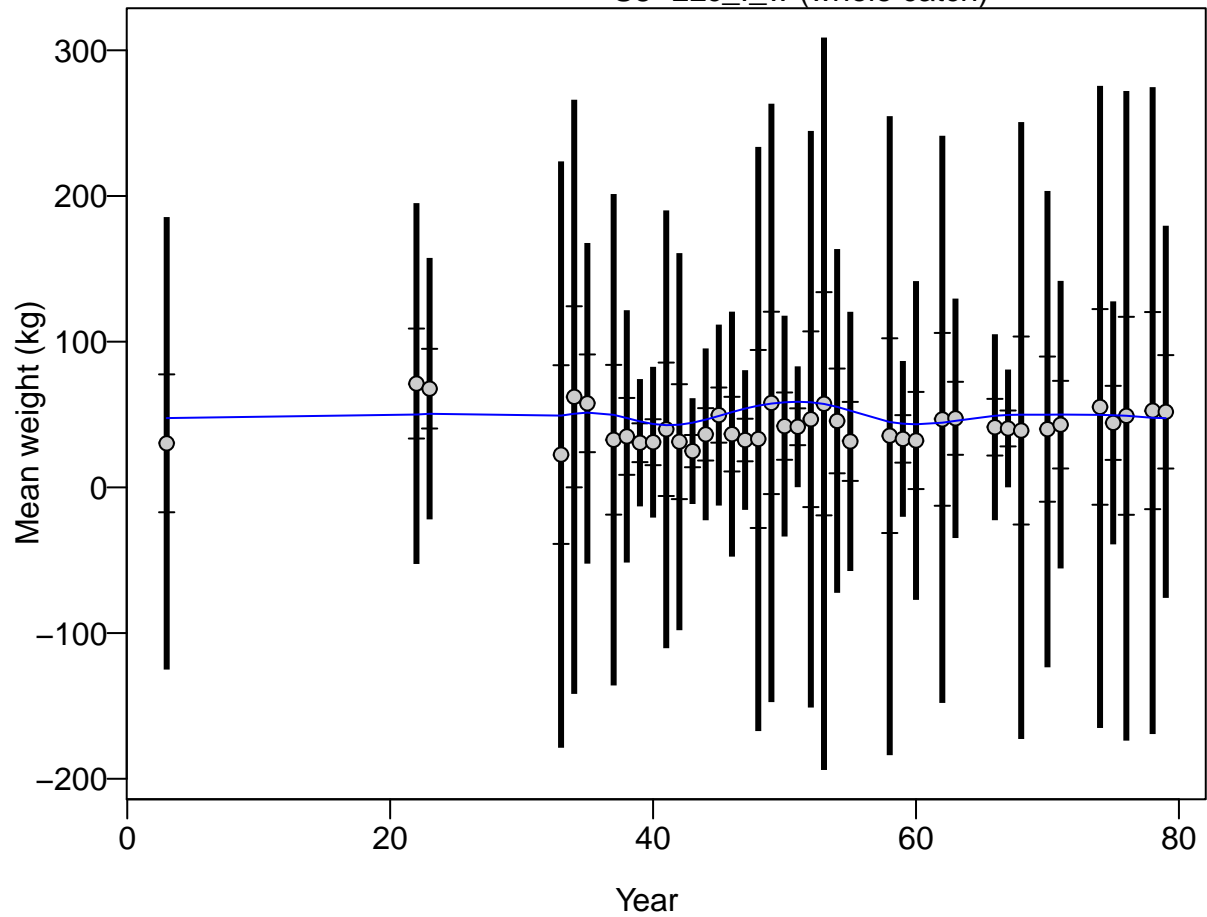
Proportion

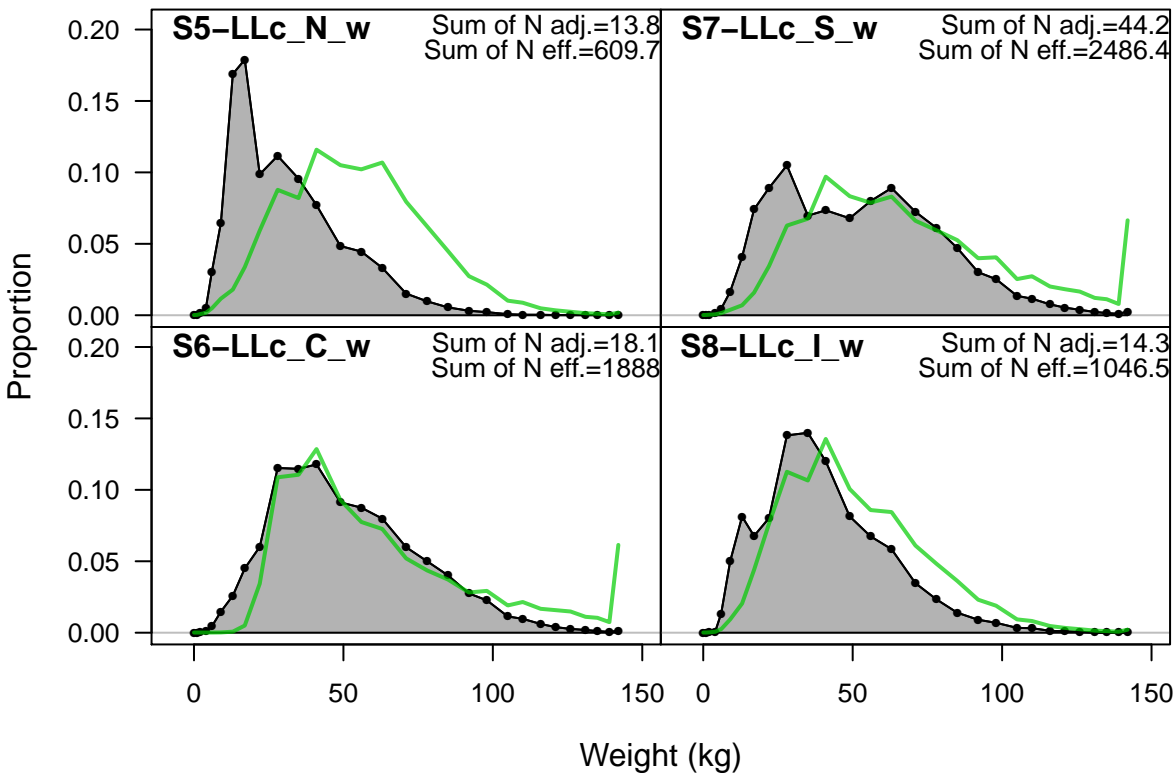


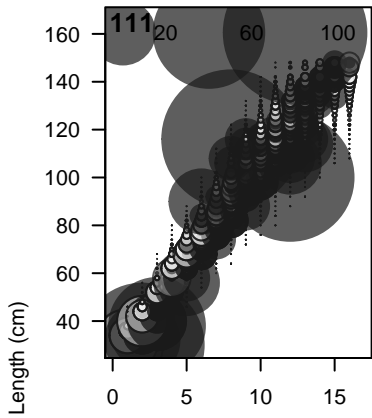




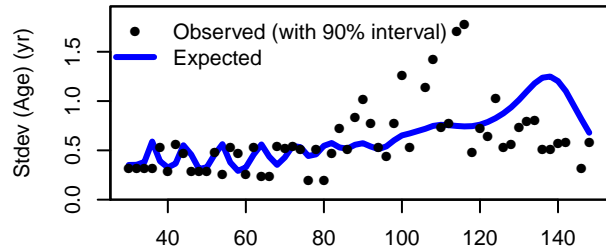
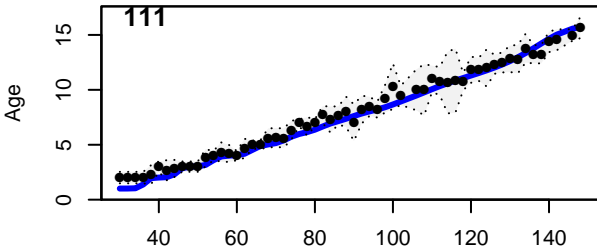
S8-LLc_I_w (whole catch)



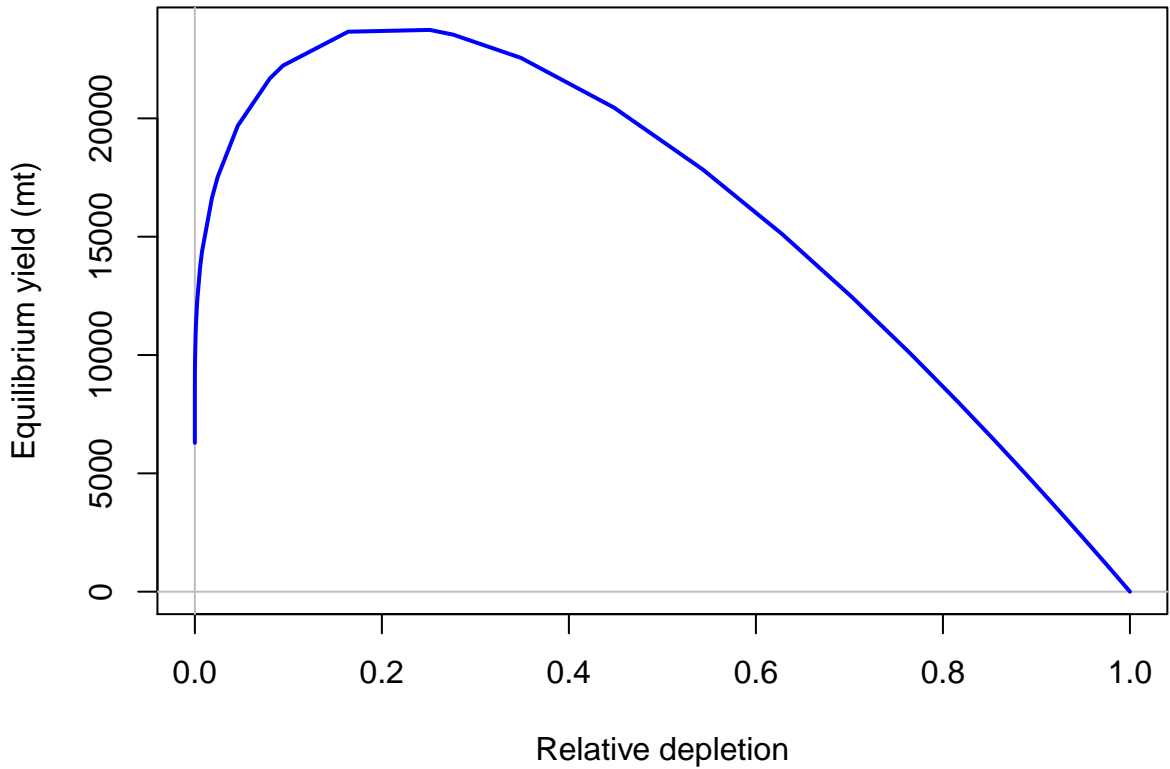


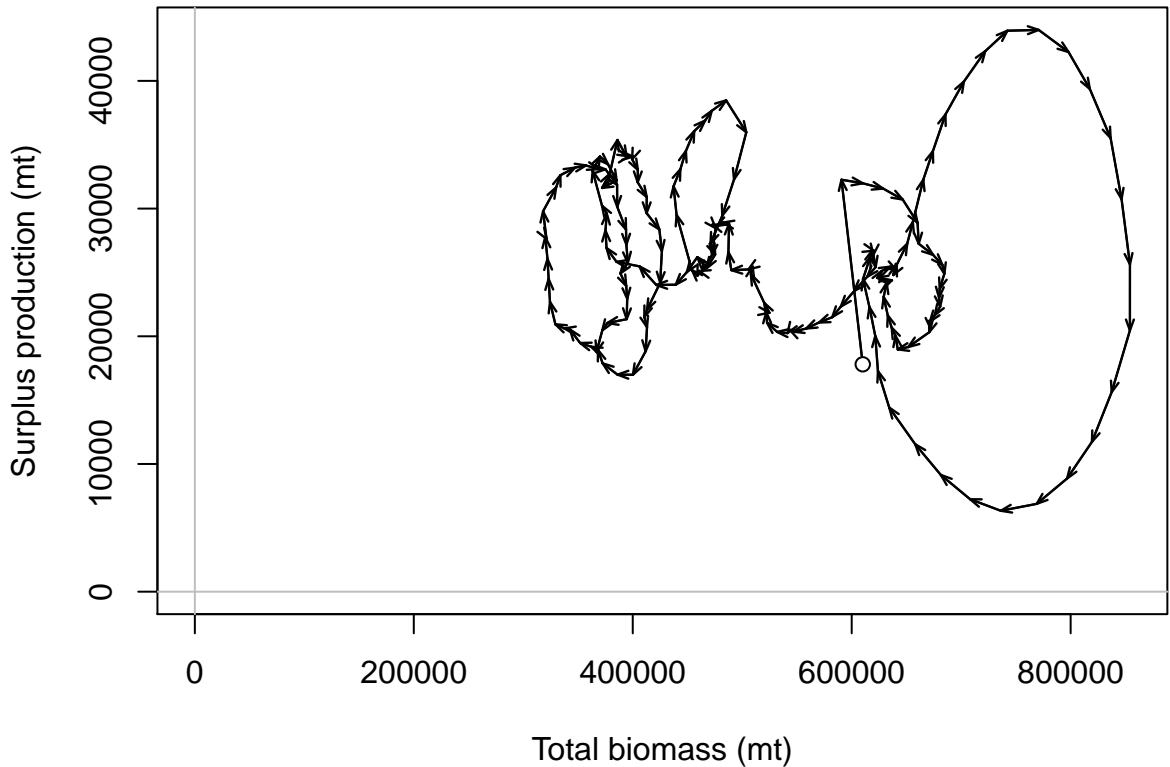


Age (yr)

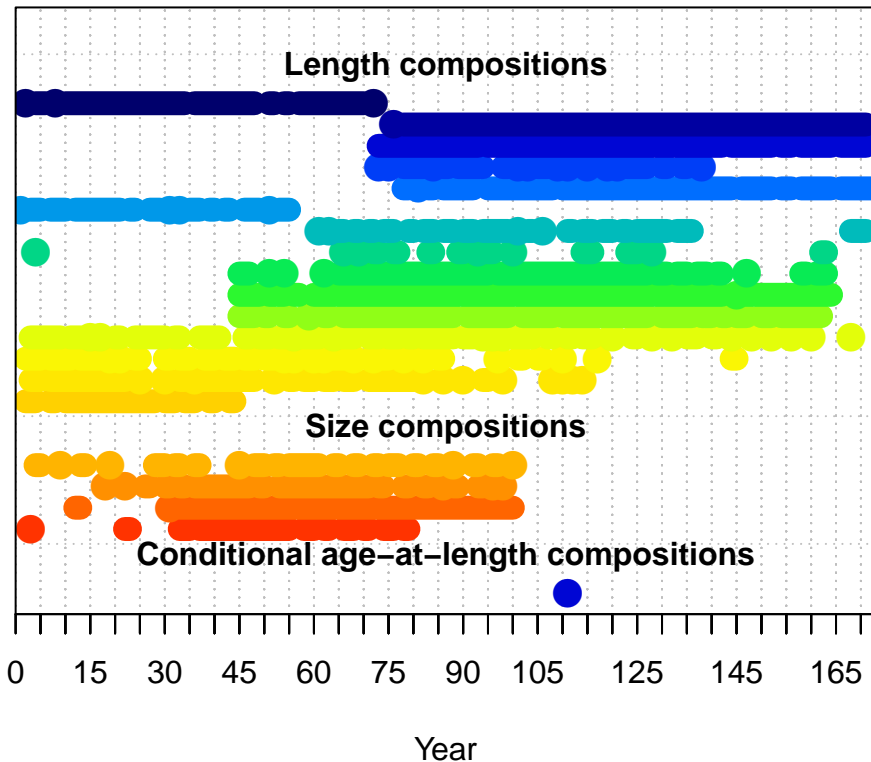


Length (cm)





Data by type and year



F1-Obj_early
F2-Obj_early
F3-Obj_early
F4-Obj_early
F5-Obj_early
F6-Obj_early
F7-Obj_early
F11-Obj_early
F12-Obj_early
F13-Obj_early
F14-Obj_early
F15-Obj_early
F18-Obj_early
F19-Obj_early
F20-Obj_early
F21-Obj_early
F22-Obj_early
F23-Obj_early
F24-Obj_early
S5-Obj_early
S6-Obj_early
S7-Obj_early
S8-Obj_early
F3-Obj_C

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

