

Plots created using the 'r4ss' package in R

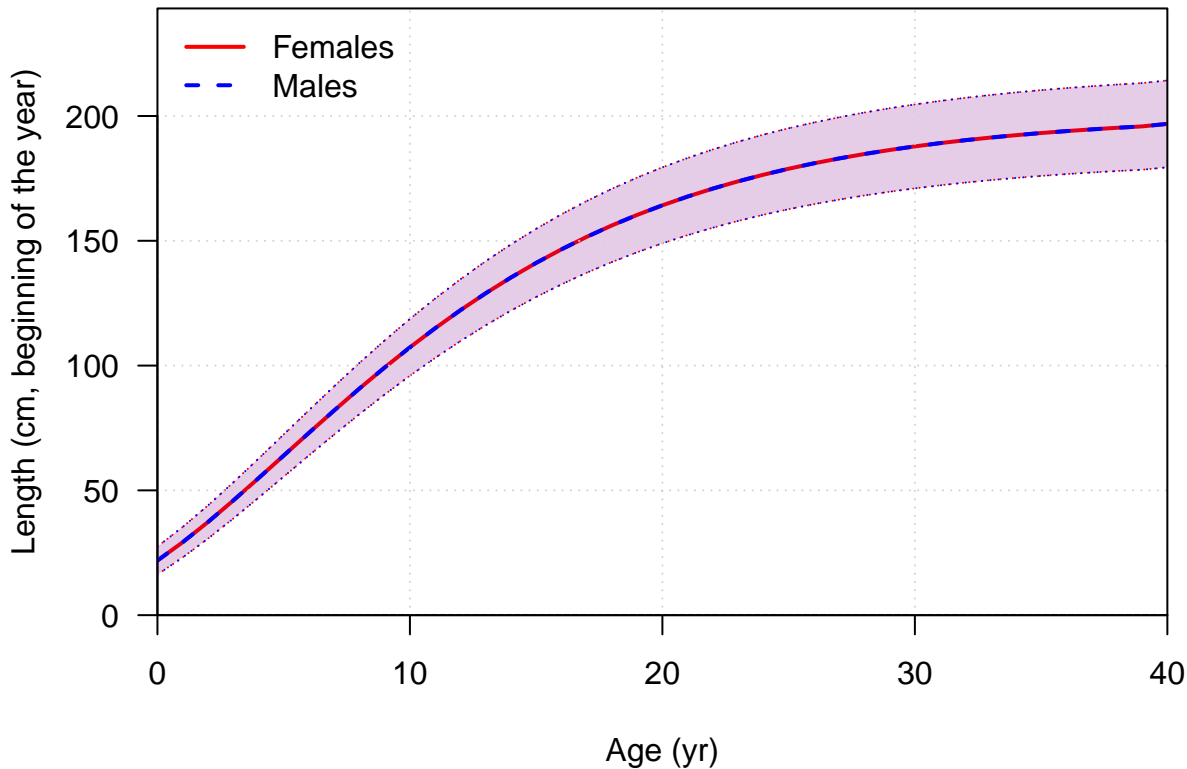
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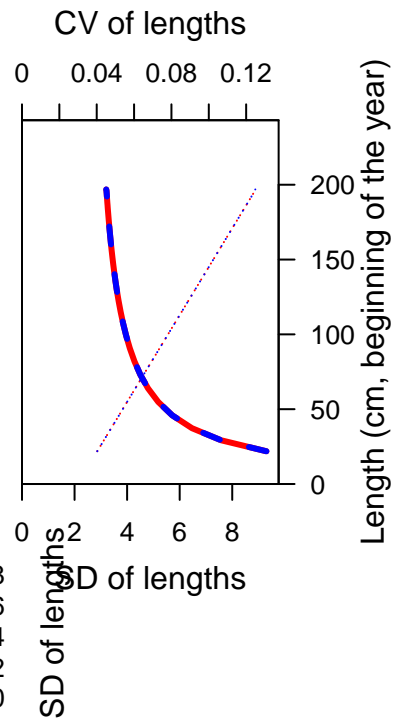
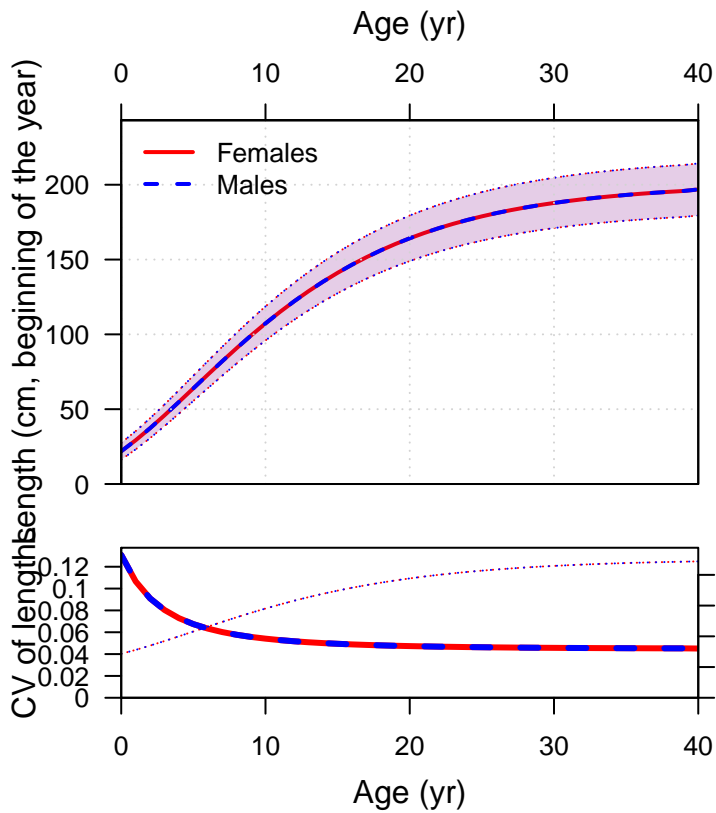
StartTime: Wed May 13 14:01:53 2020

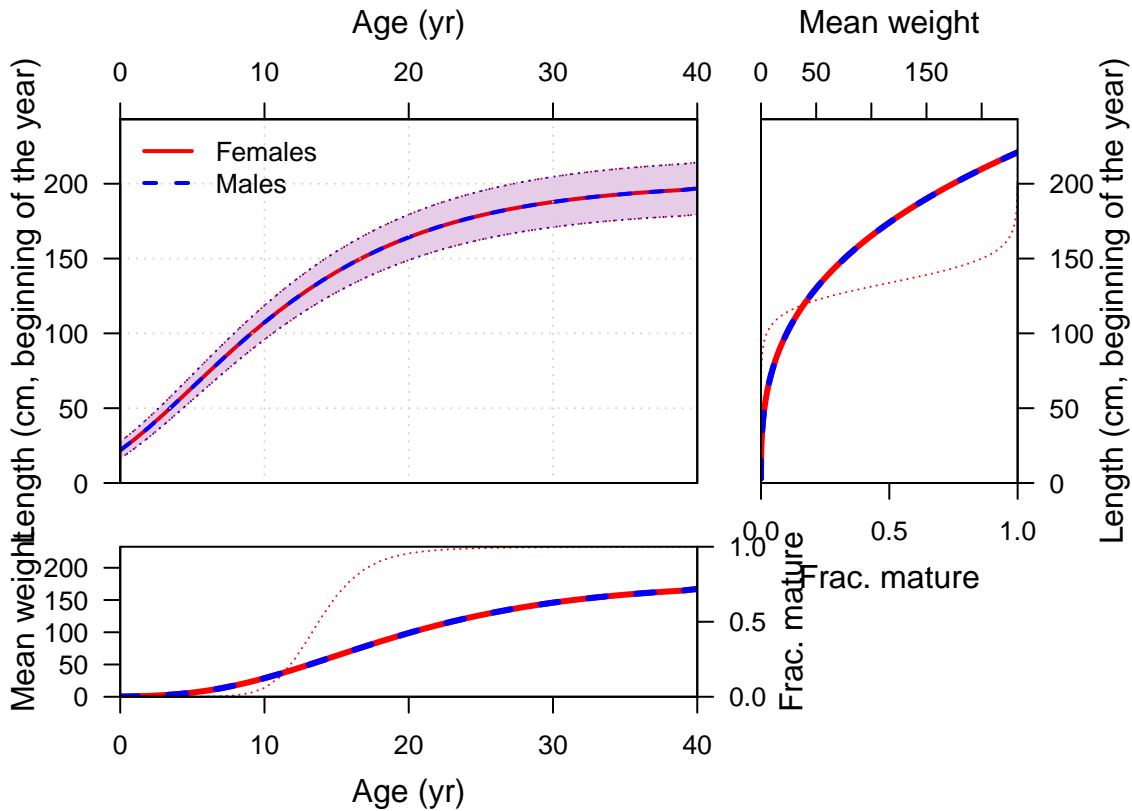
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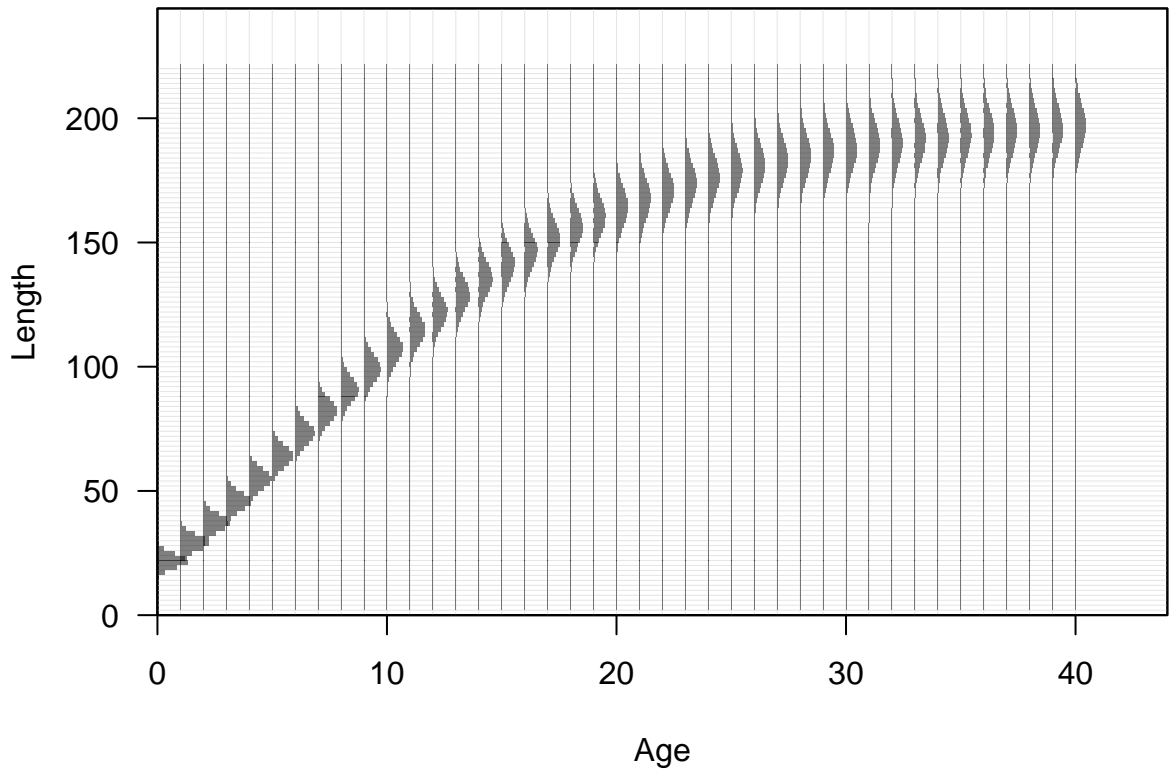
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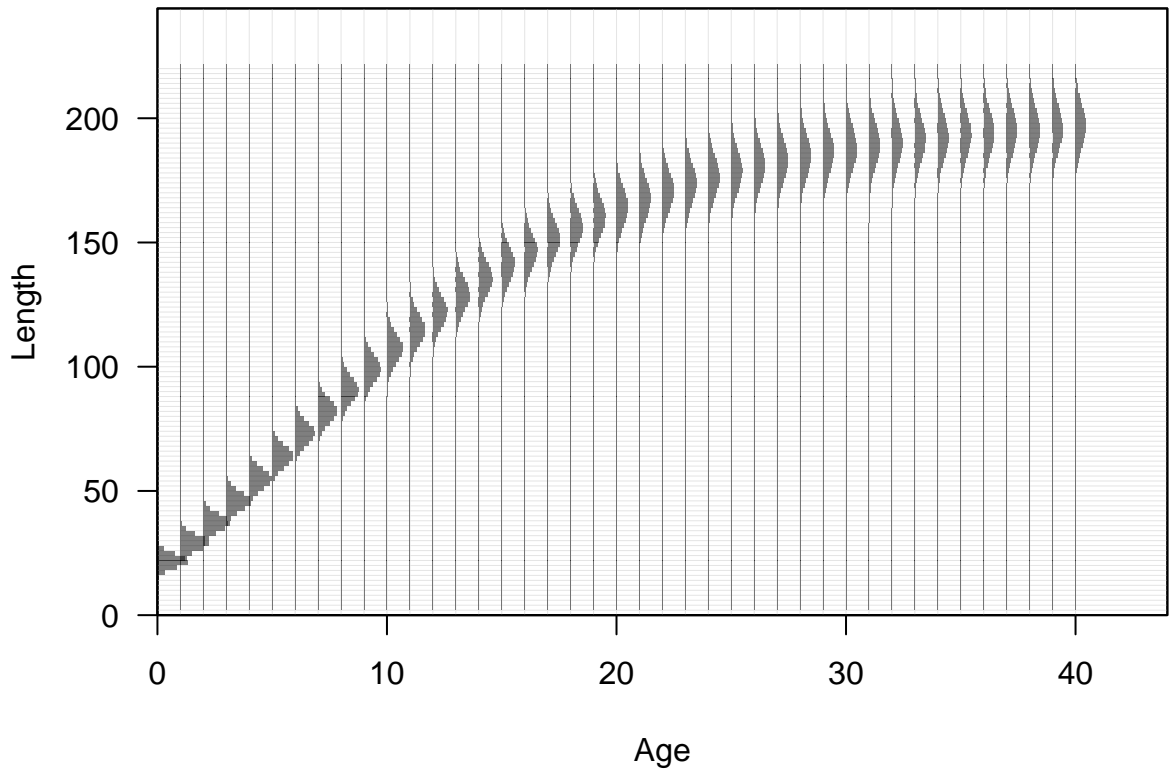
Ending year expected growth (with 95% intervals)

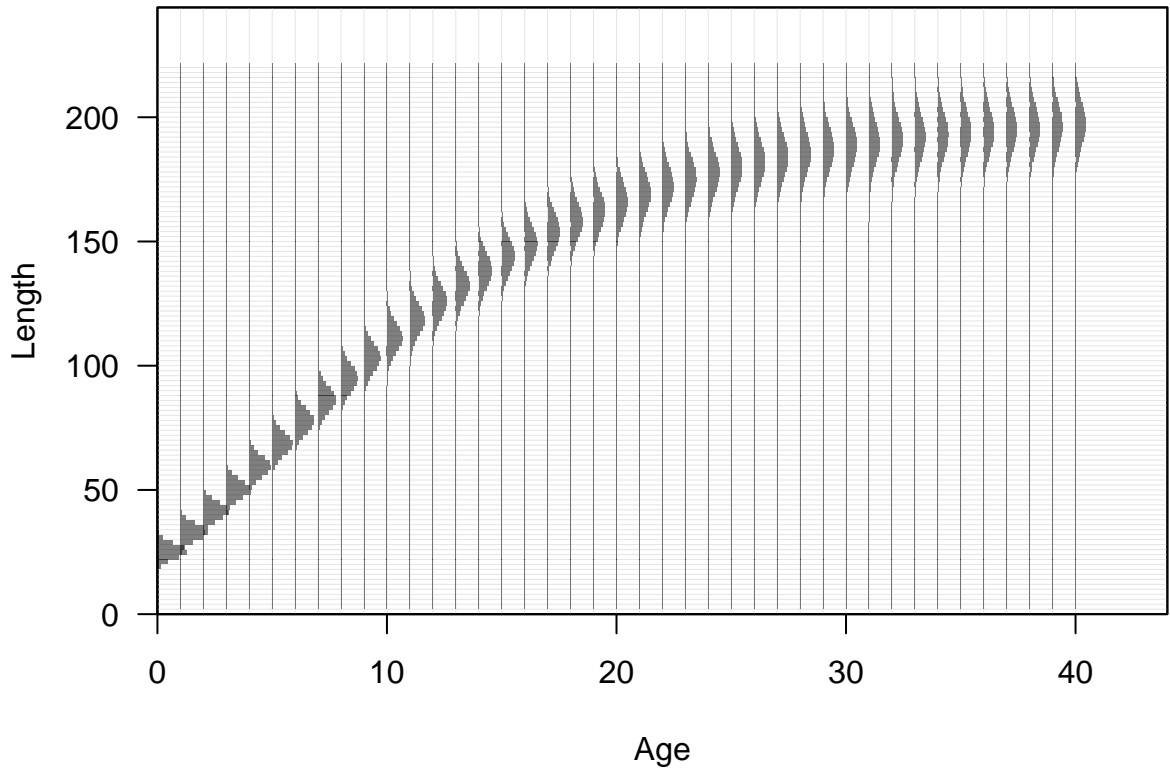


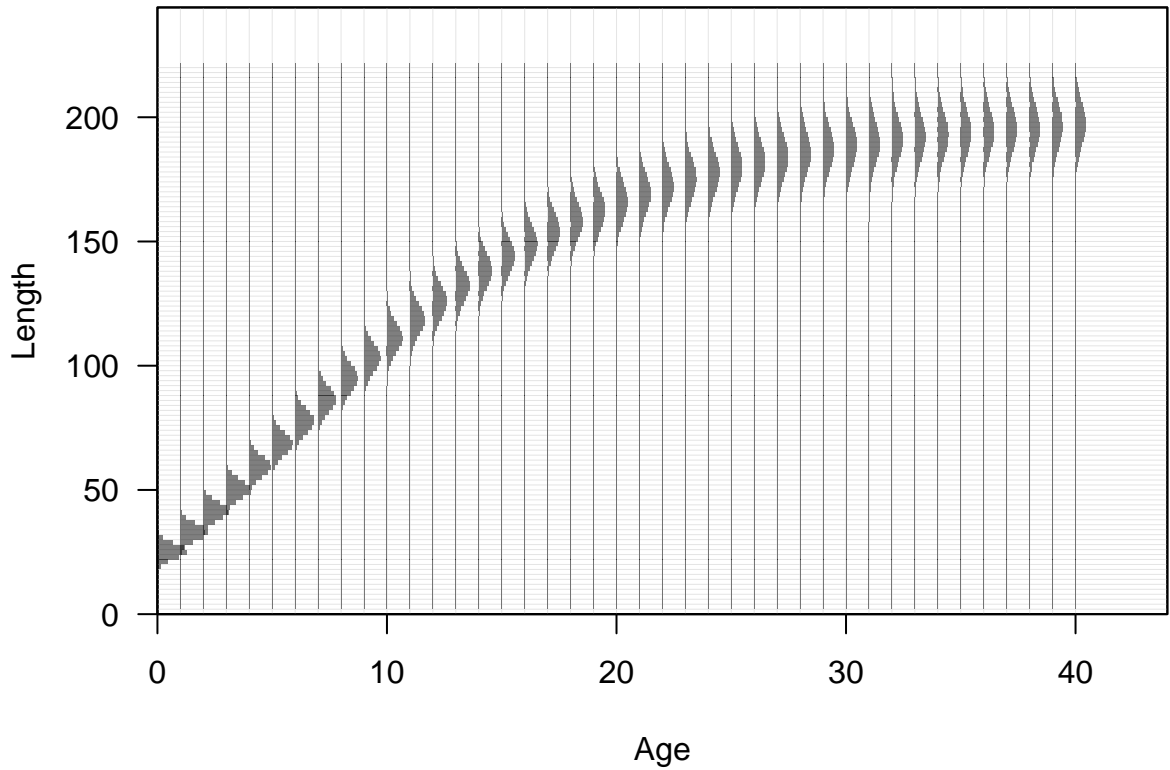


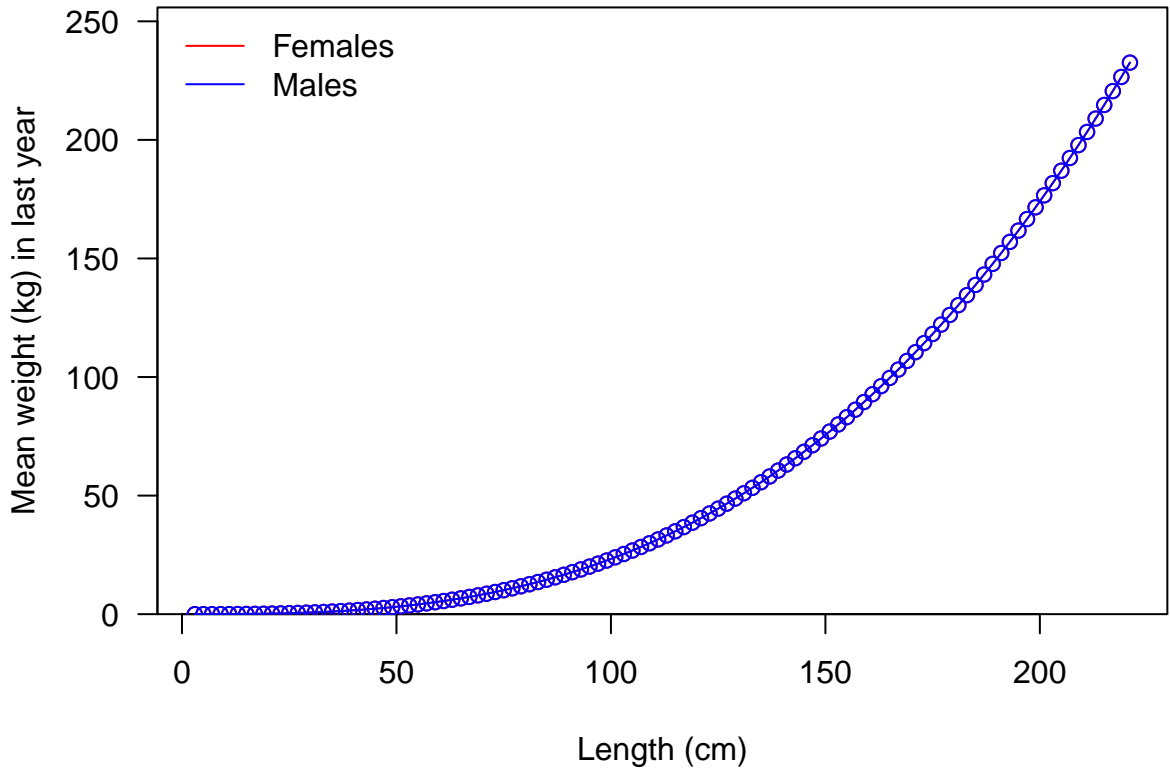


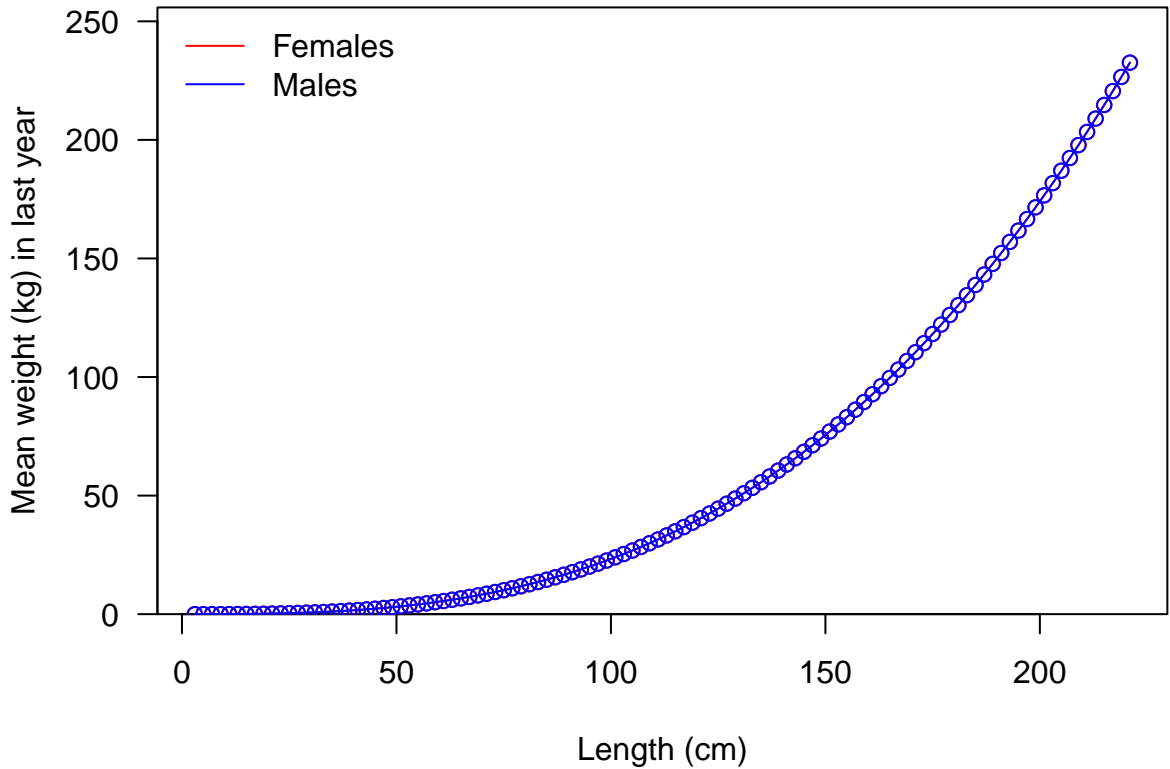


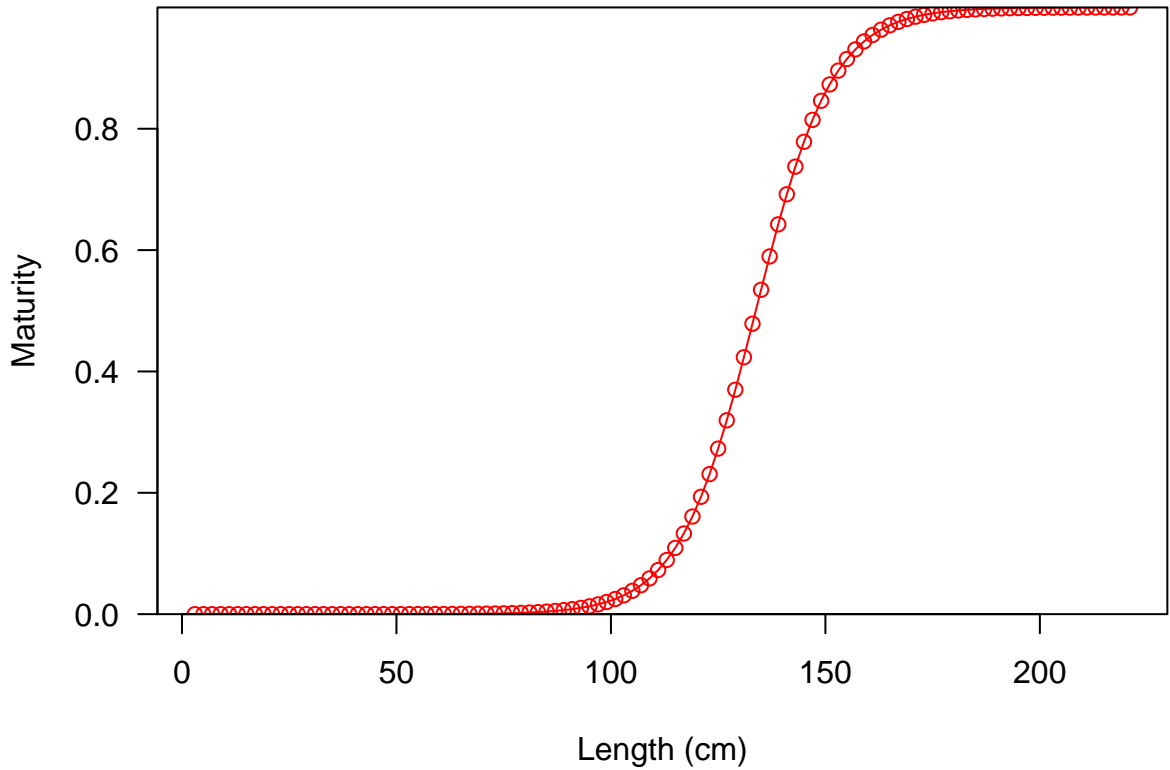


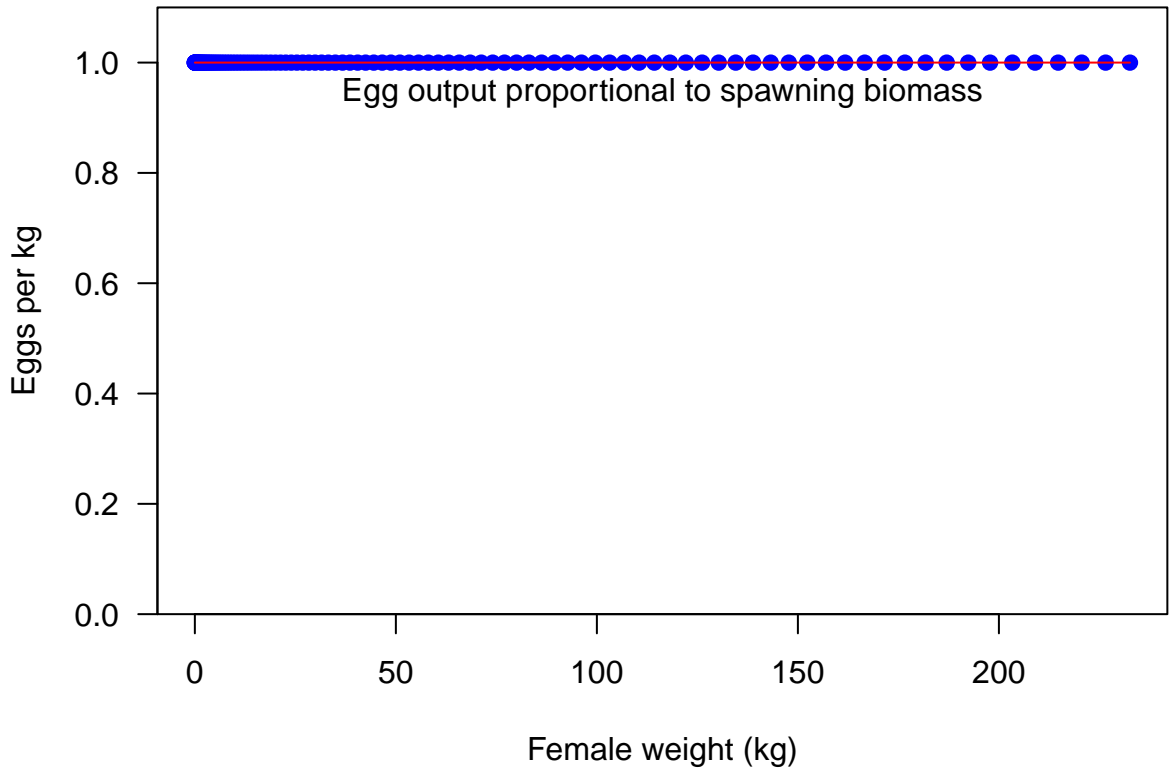


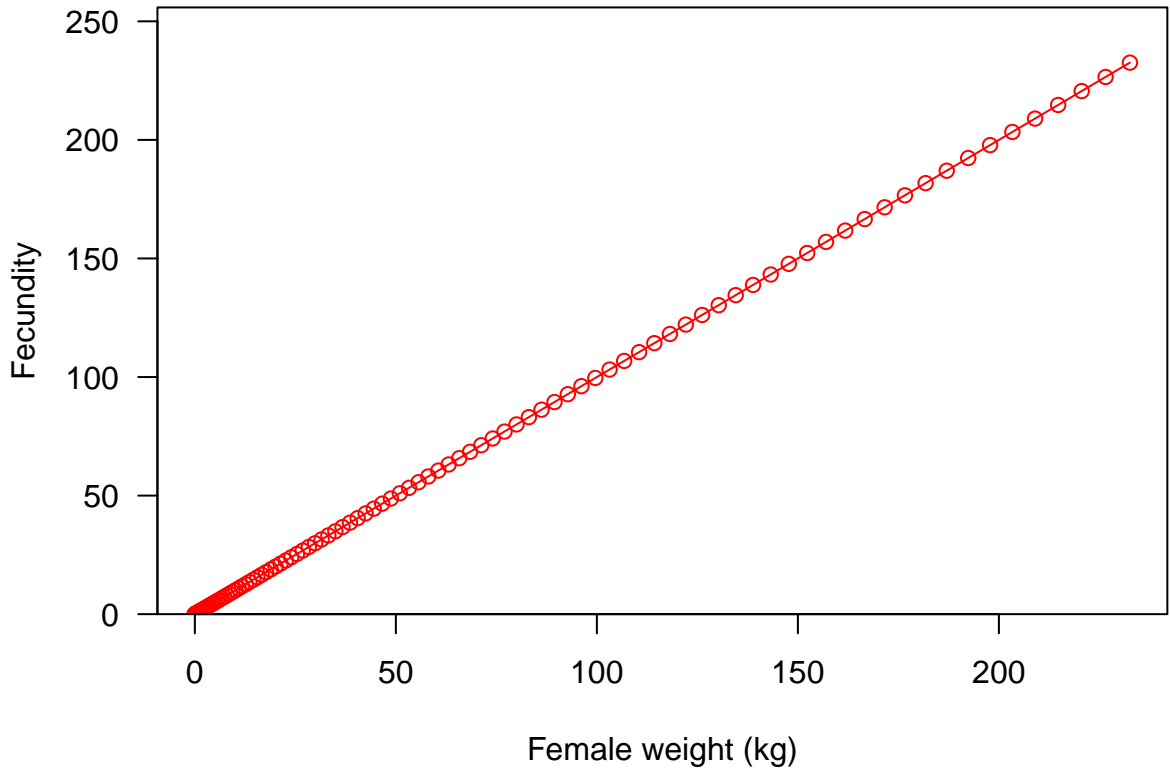


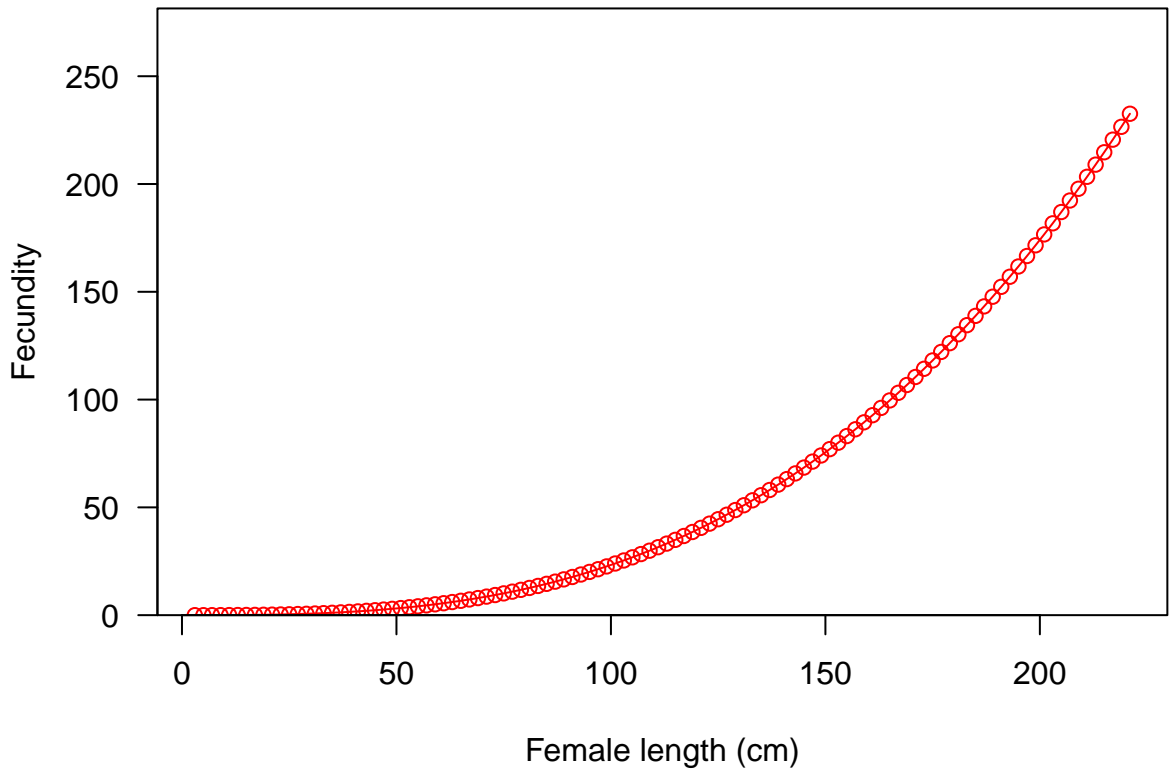


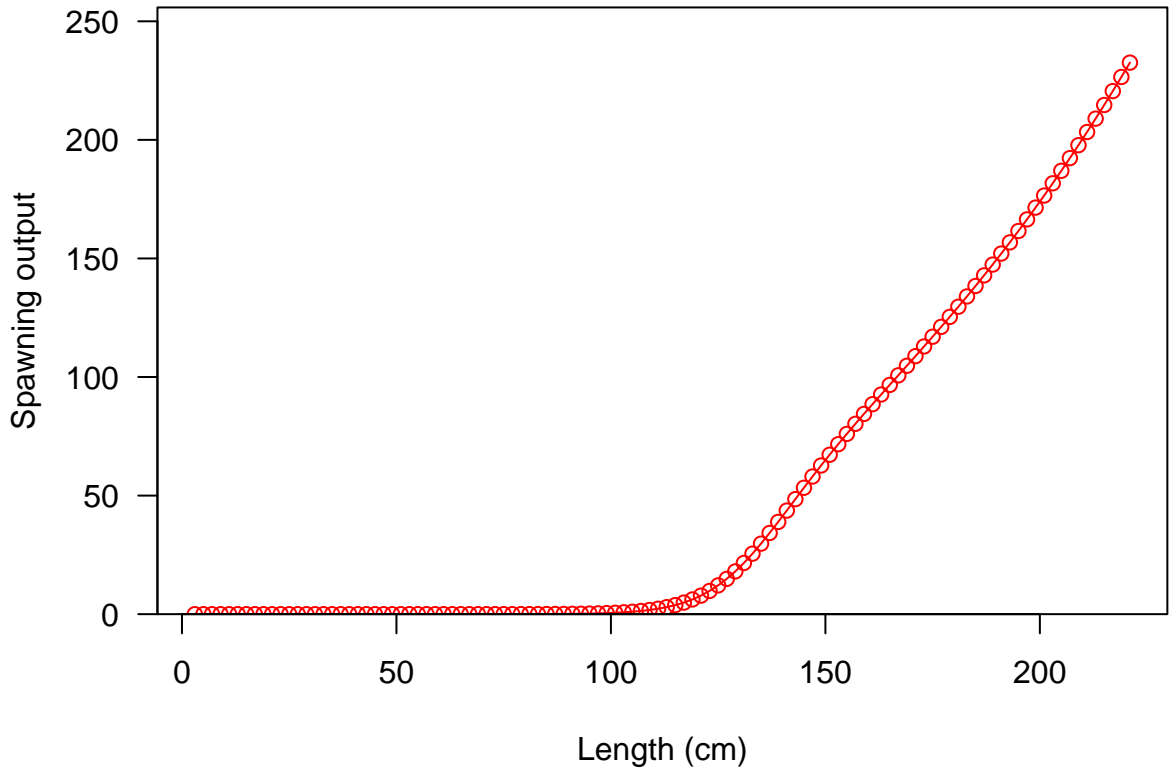


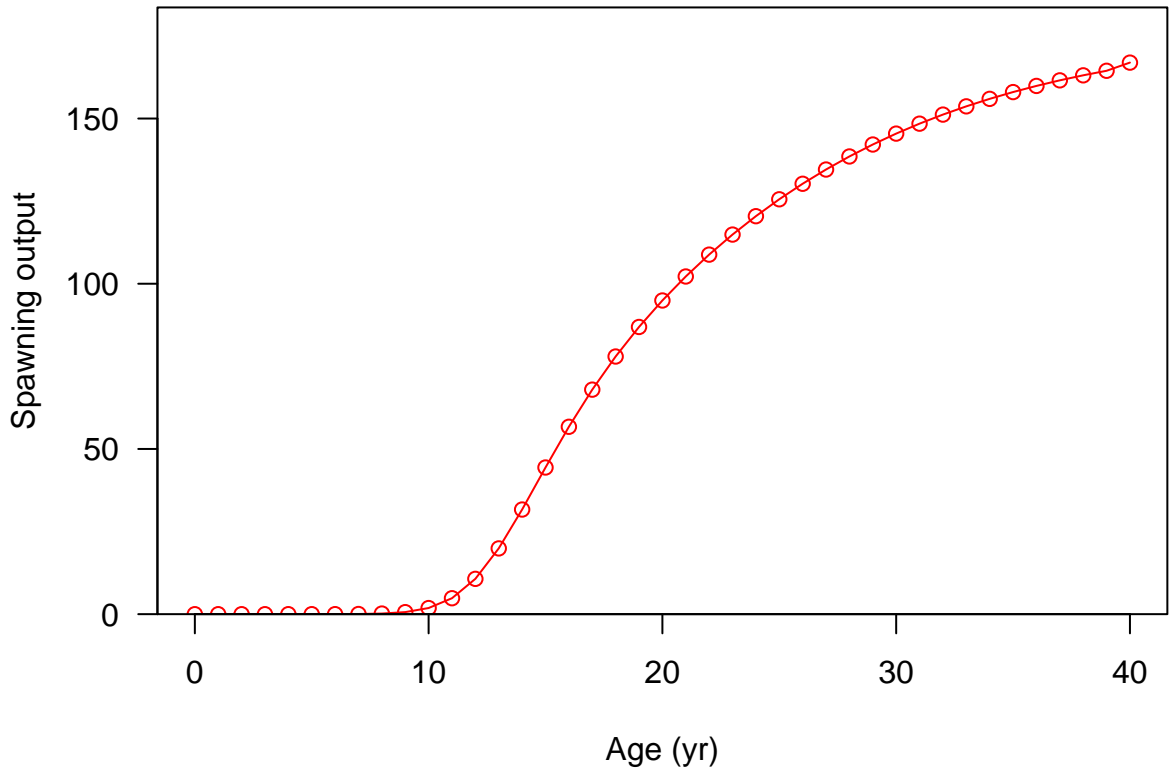




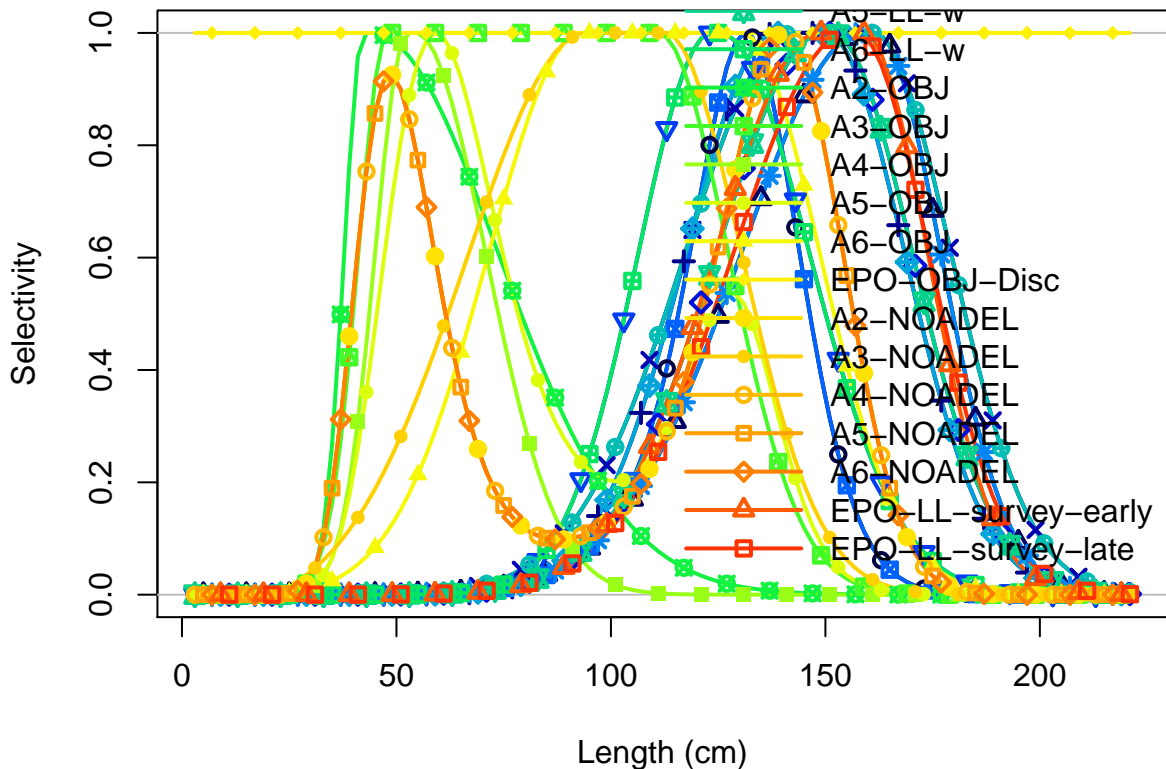




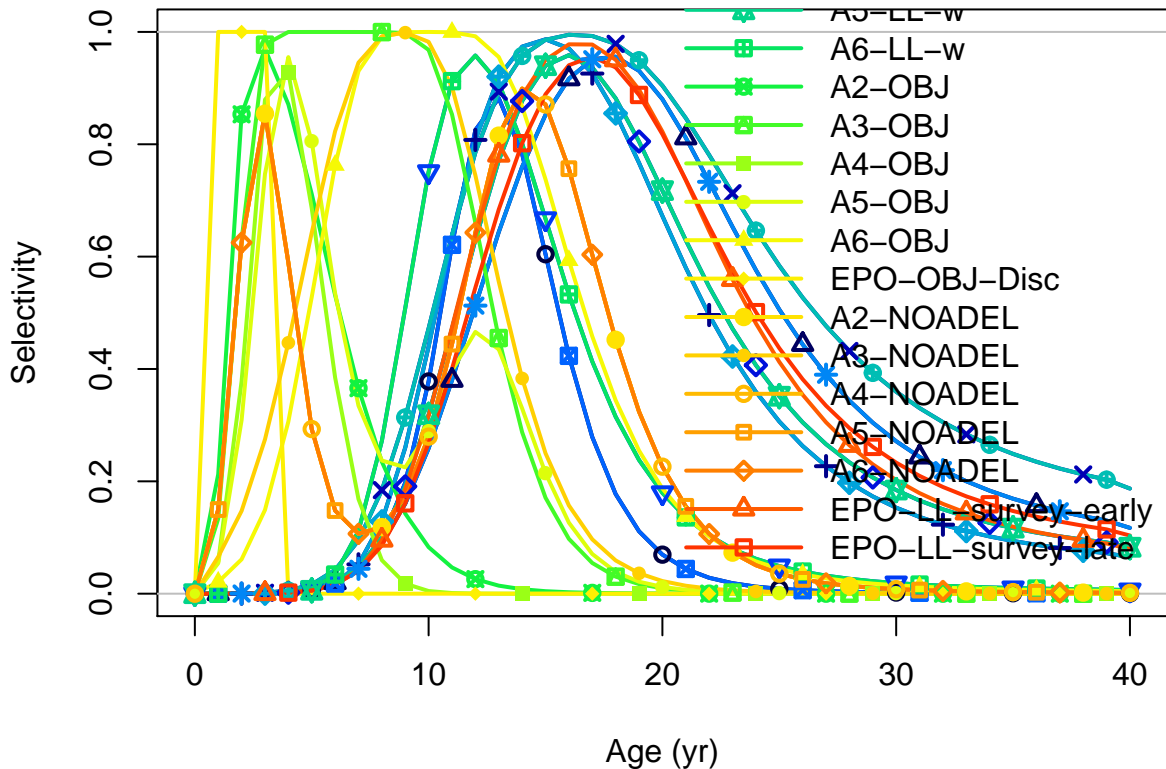




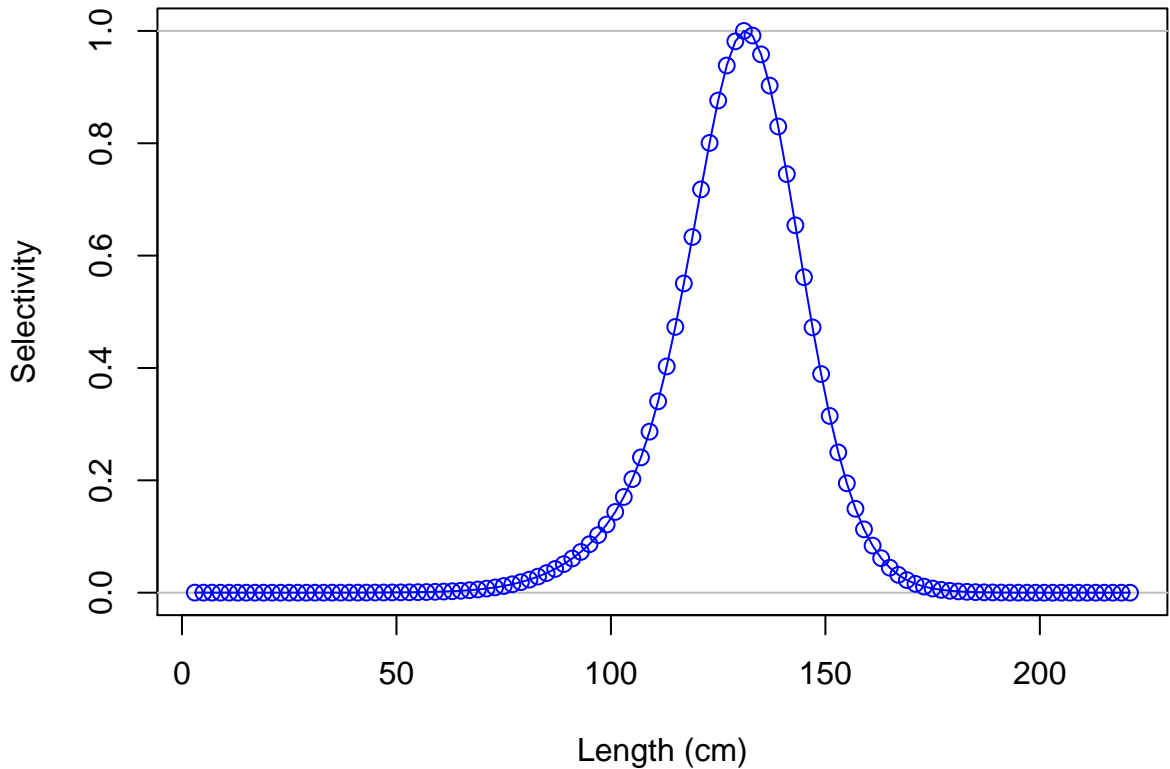
Length-based selectivity by fleet in 180



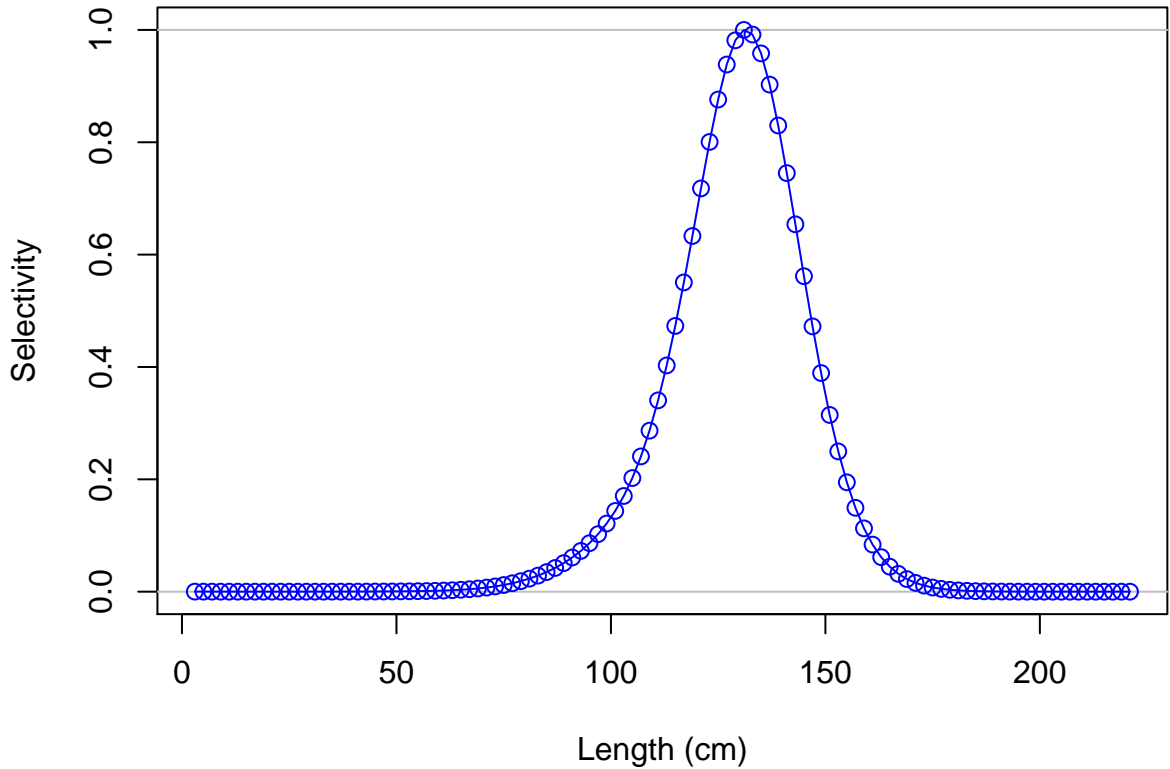
Derived age-based from length-based selectivity by fleet in 180



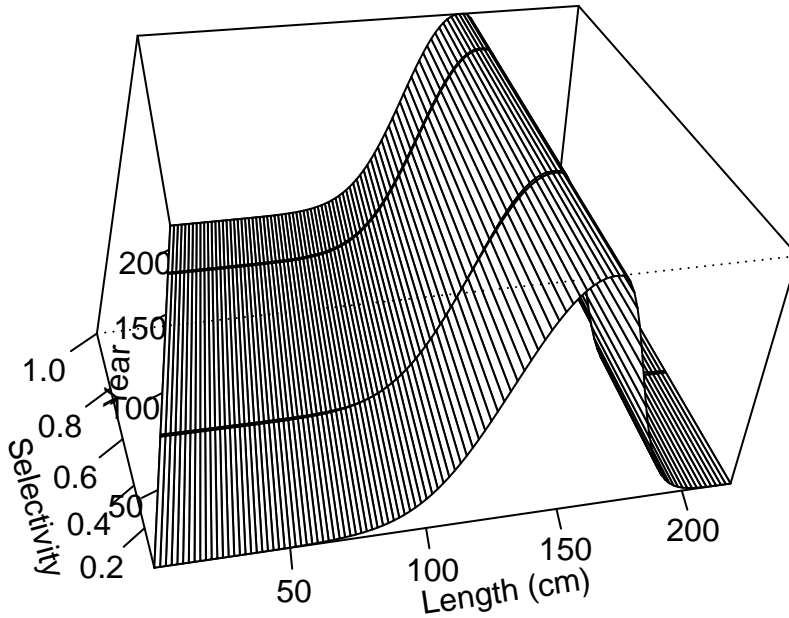
Female ending year selectivity for A1-LL-n



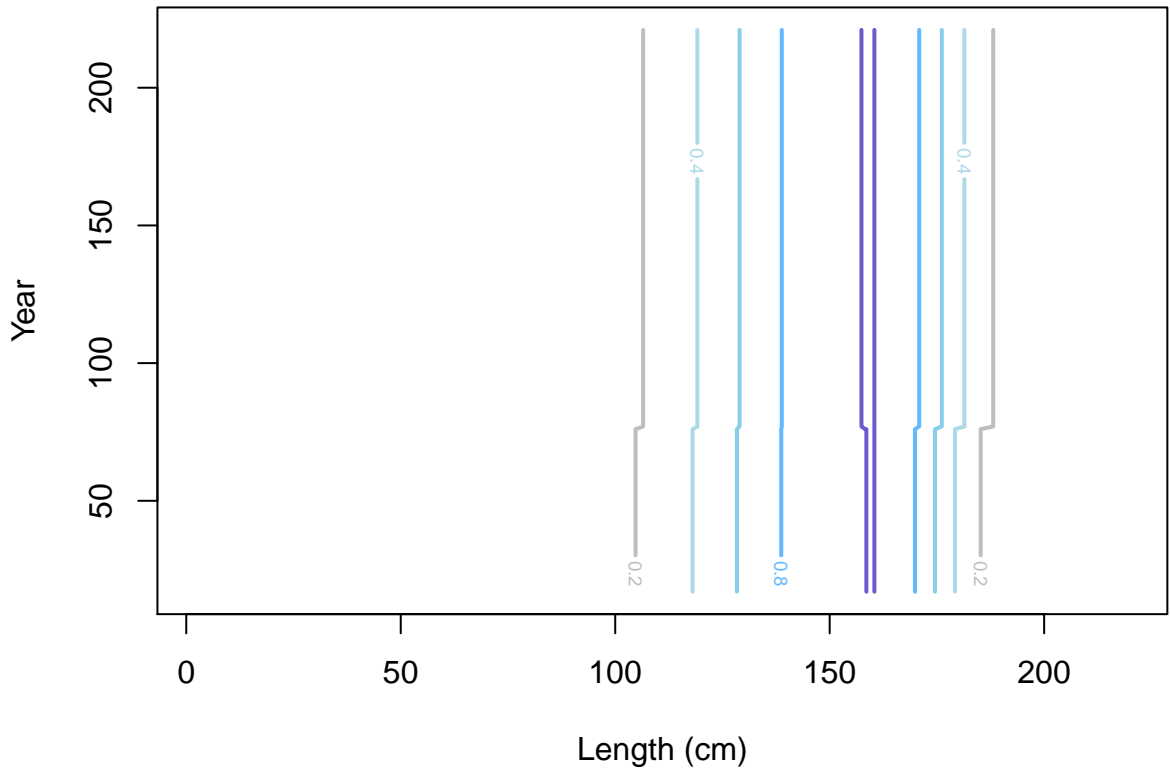
Male ending year selectivity for A1-LL-n



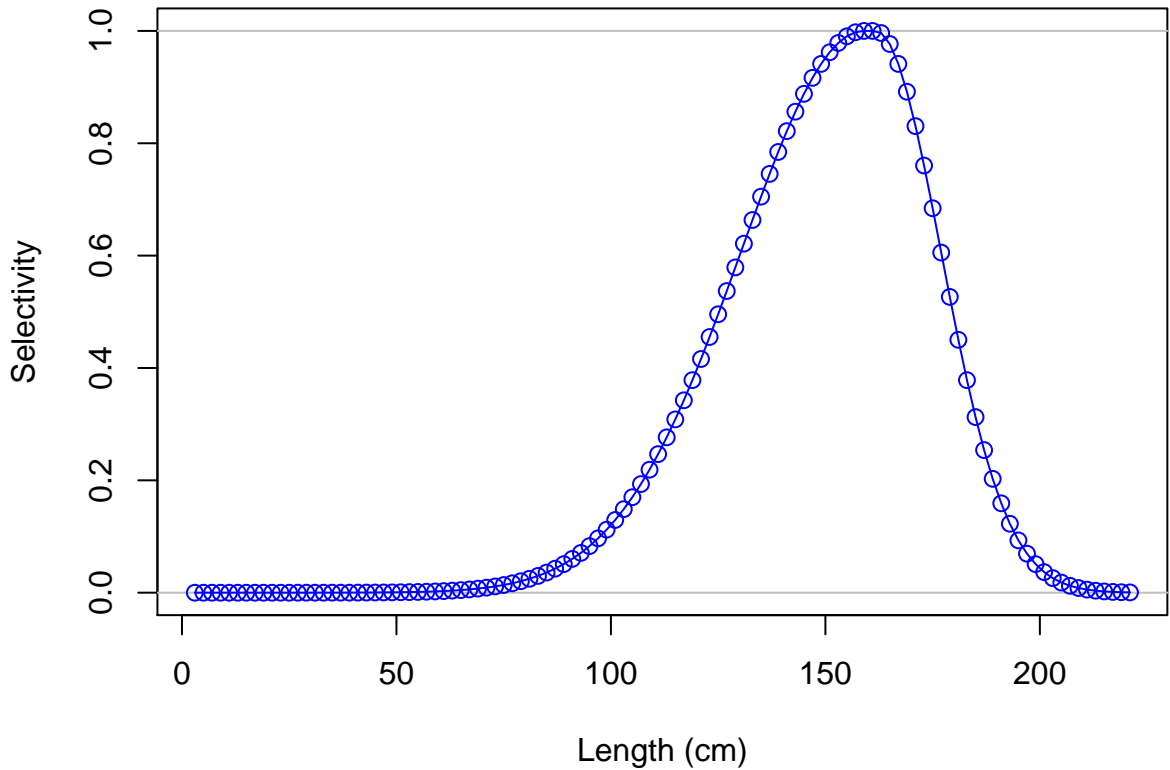
Female time-varying selectivity for A2-LL-n



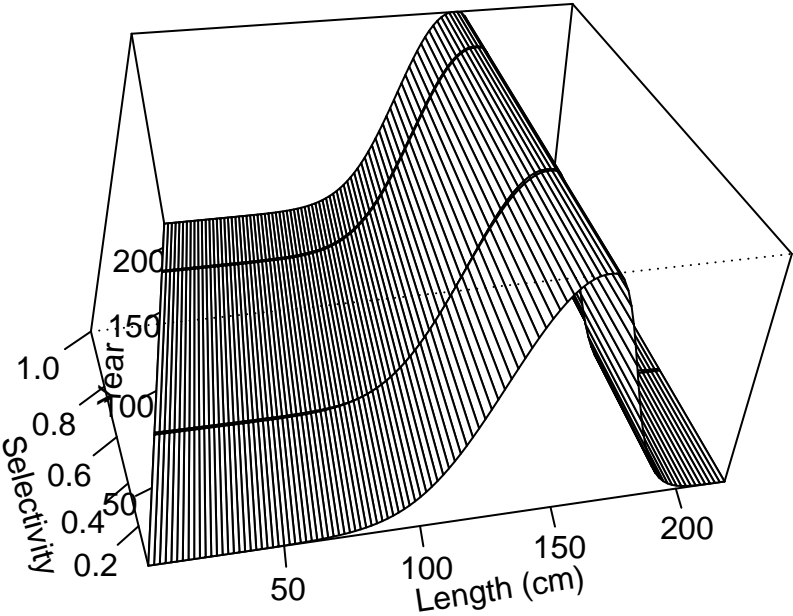
Female time-varying selectivity for A2-LL-n



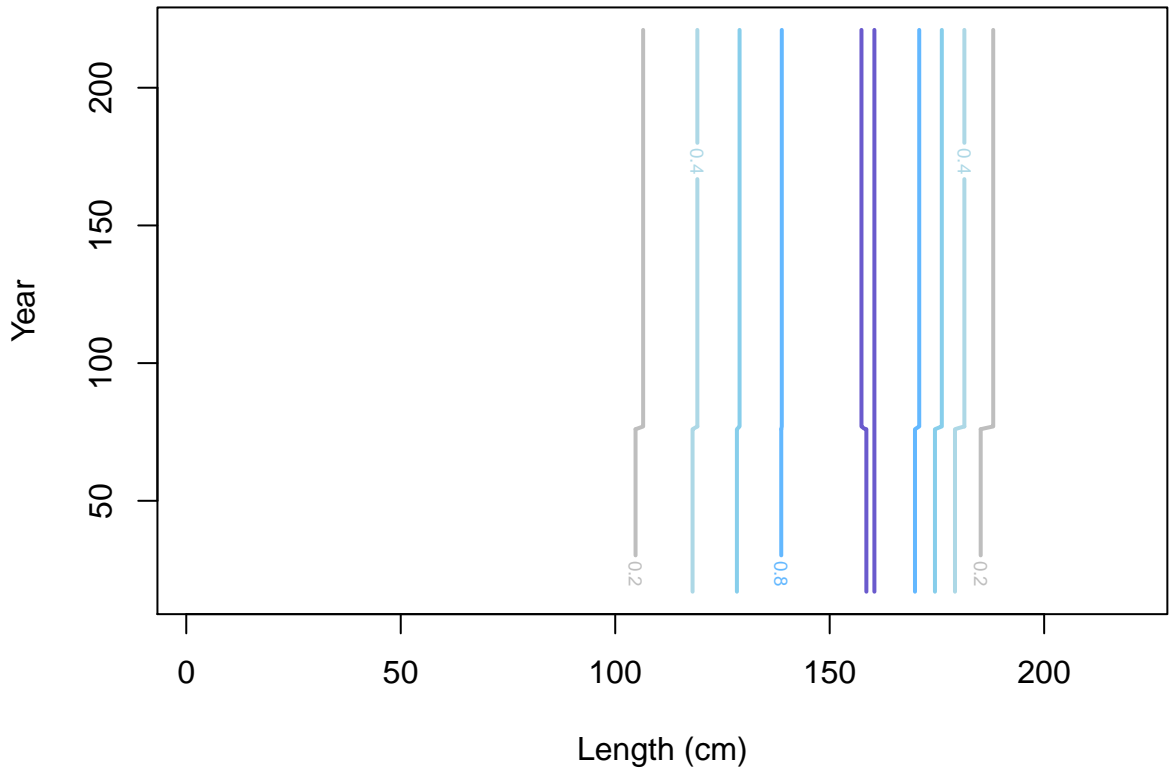
Female ending year selectivity for A2-LL-n



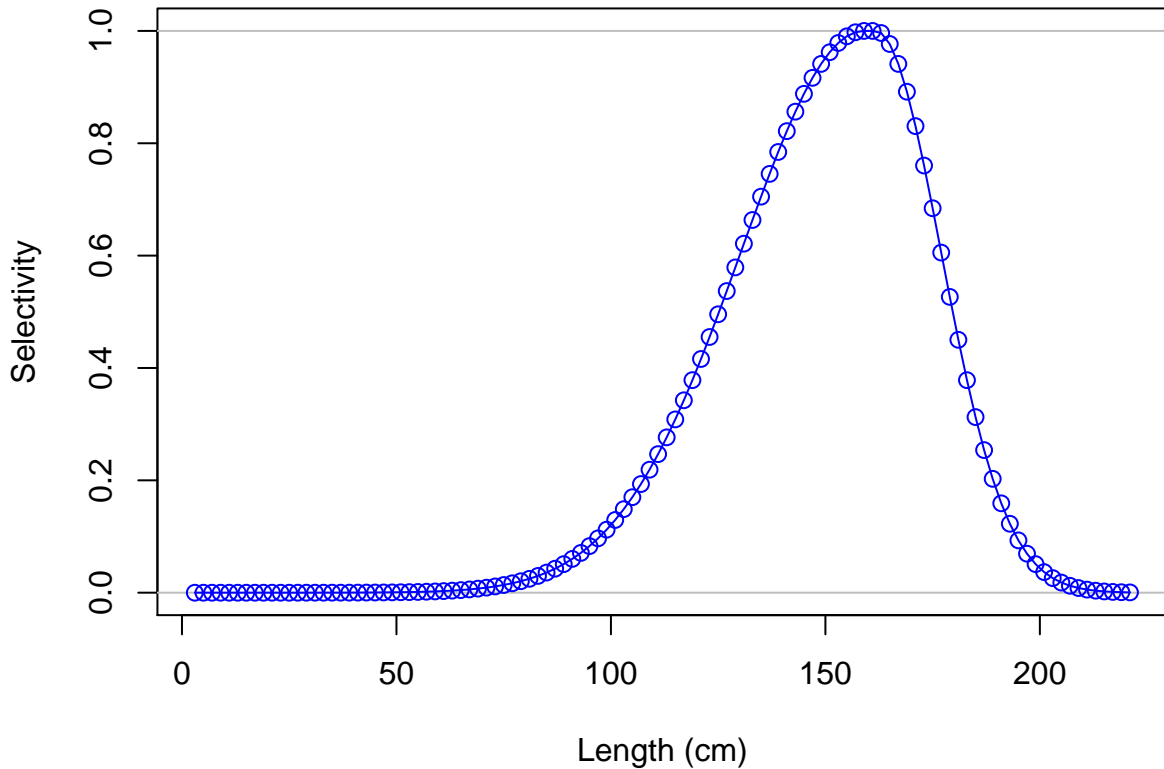
Male time-varying selectivity for A2-LL-n



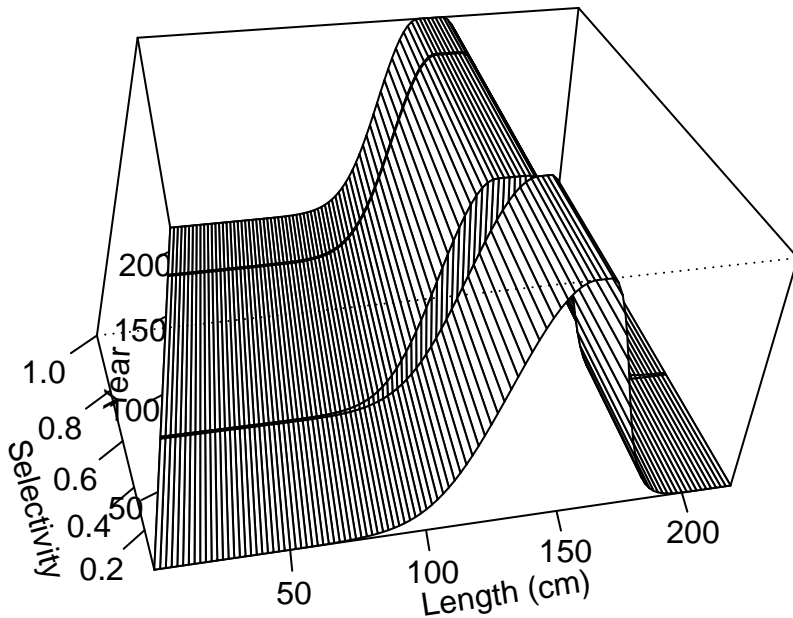
Male time-varying selectivity for A2-LL-n



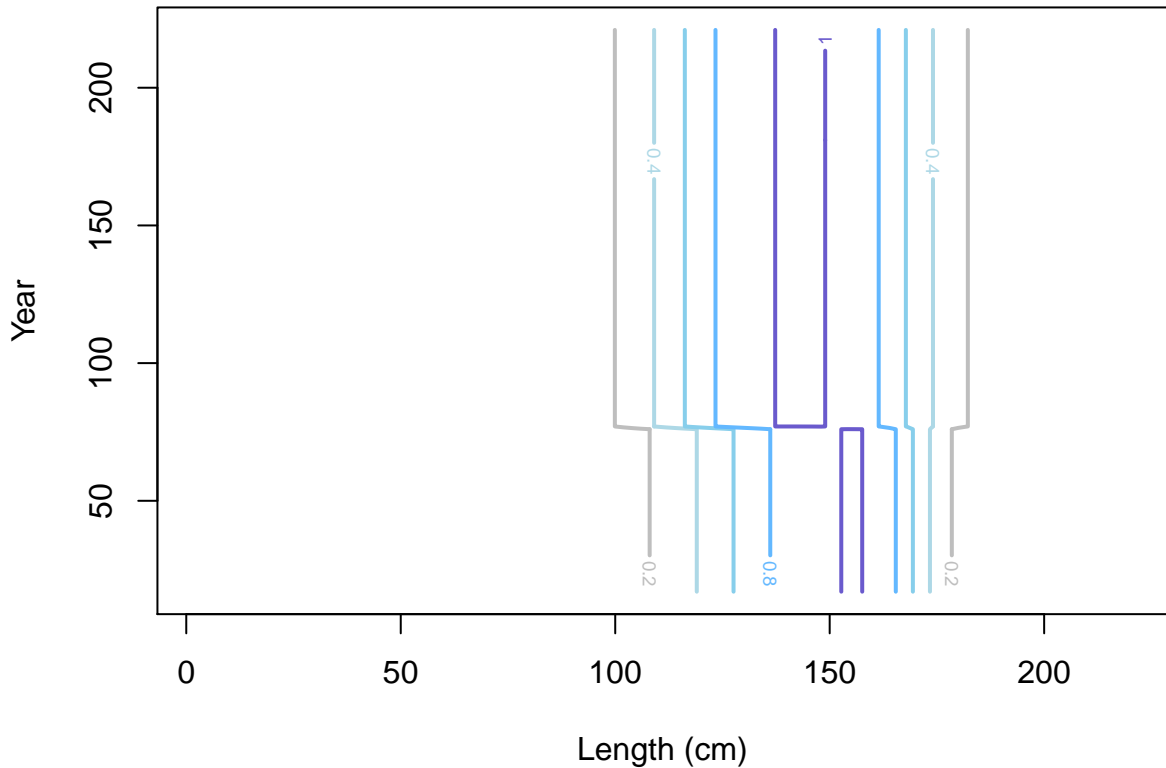
Male ending year selectivity for A2-LL-n



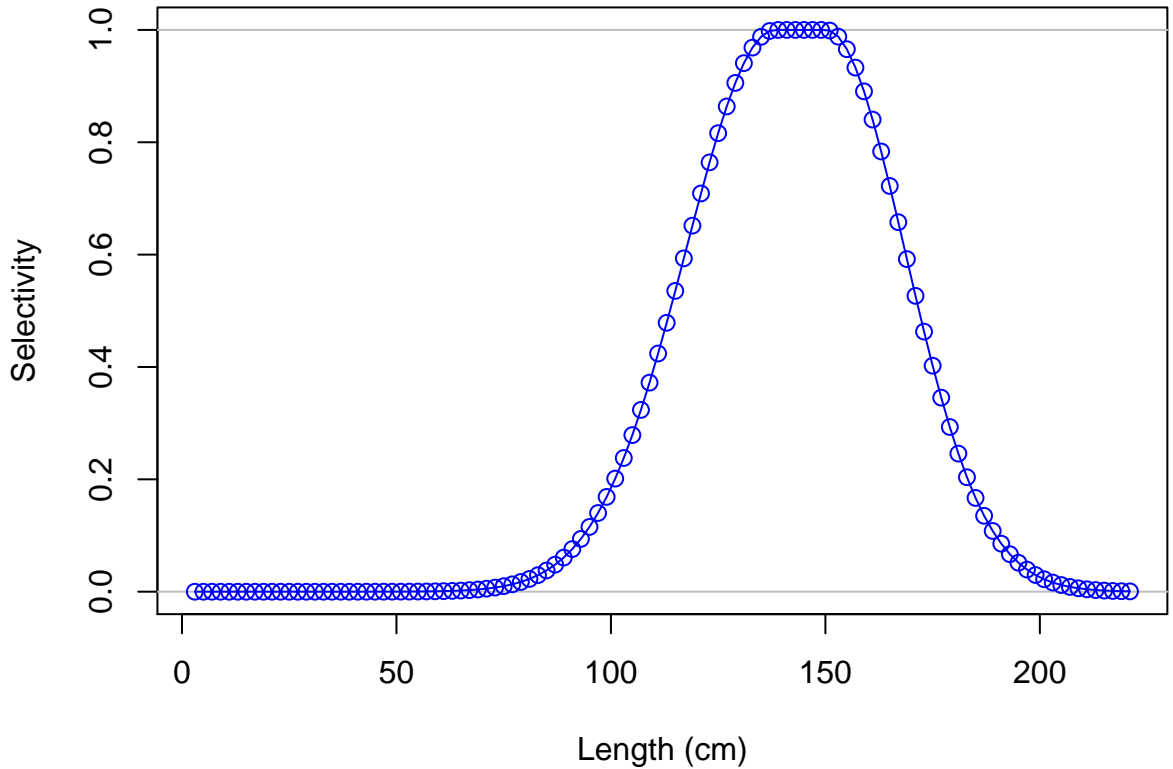
Female time-varying selectivity for A3-LL-n



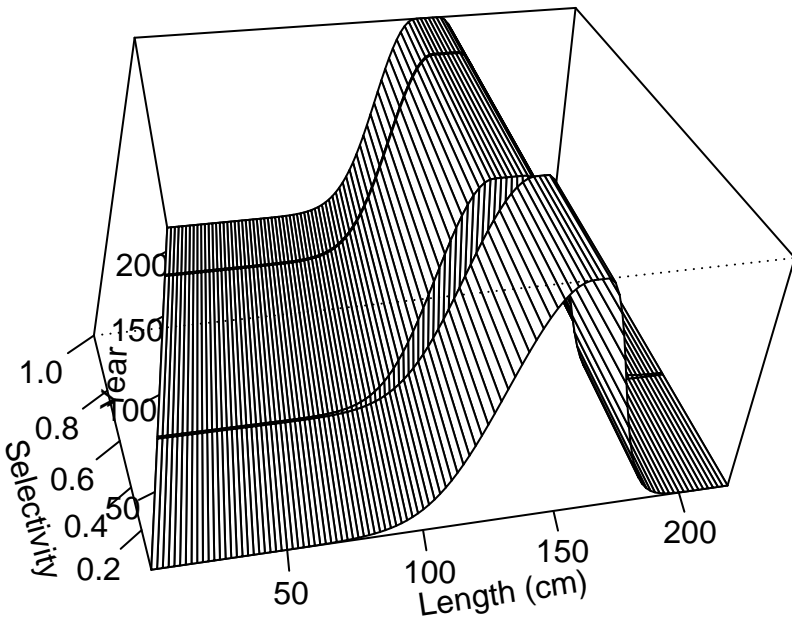
Female time-varying selectivity for A3-LL-n



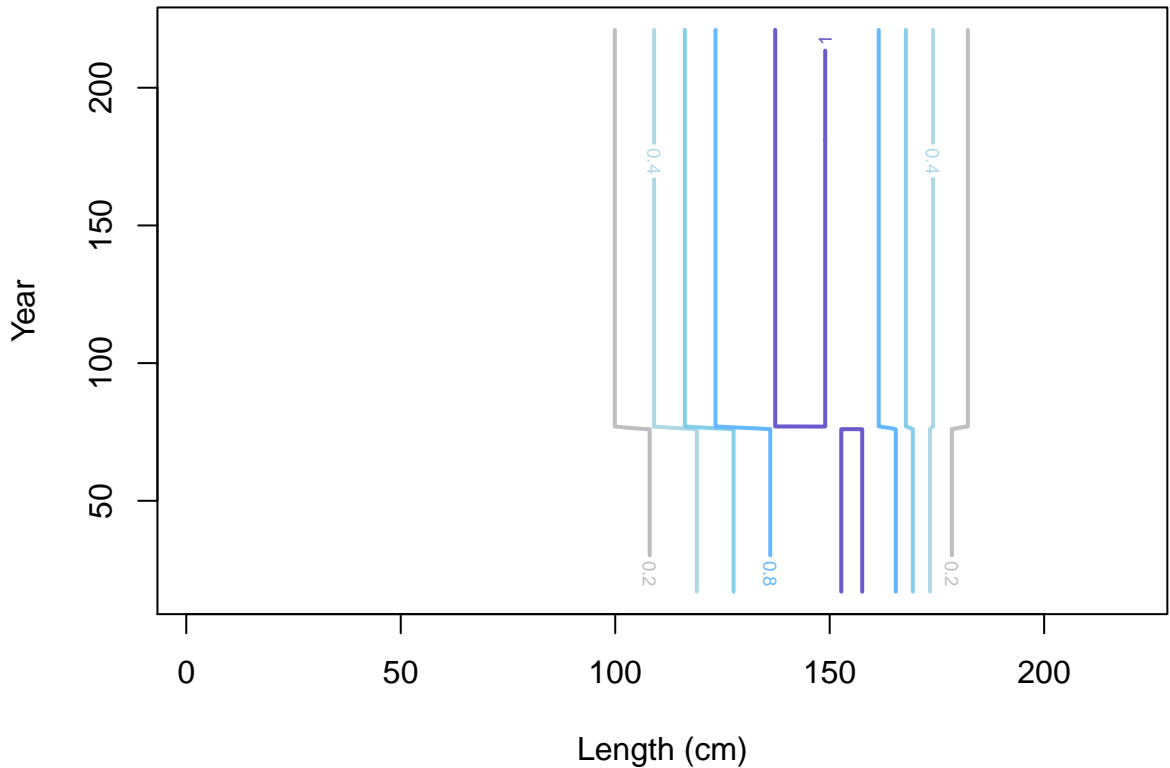
Female ending year selectivity for A3-LL-n



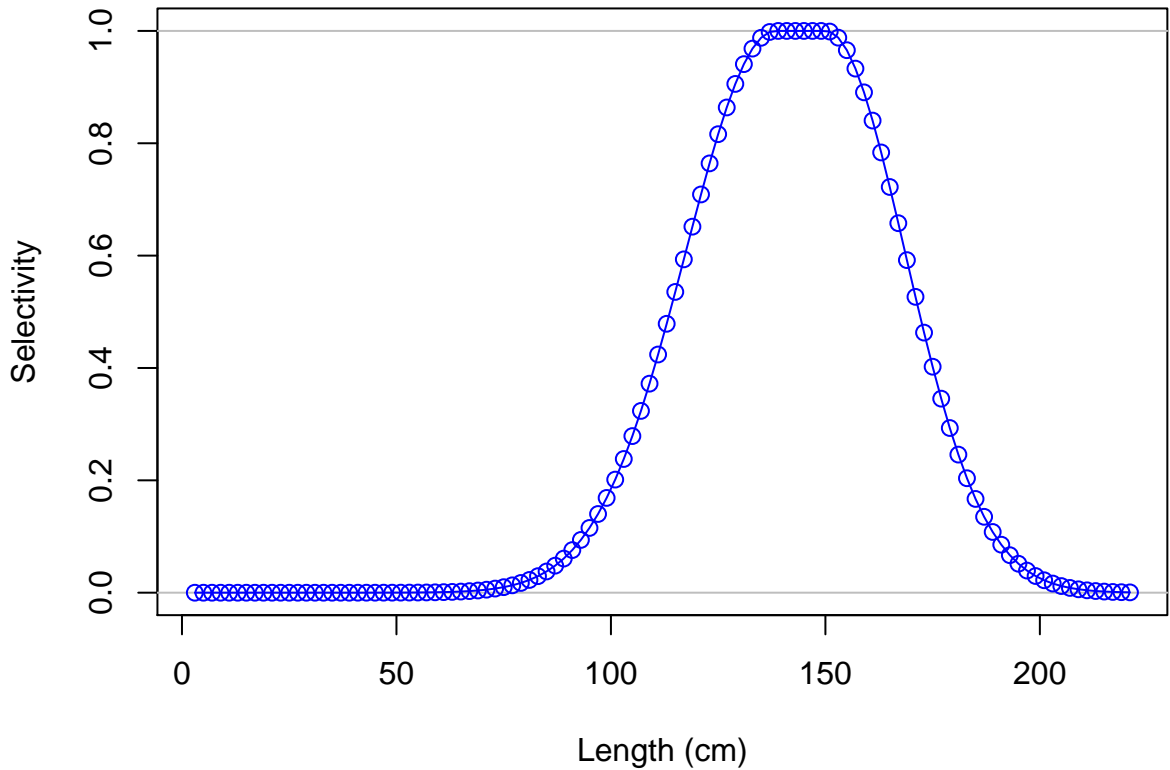
Male time-varying selectivity for A3-LL-n



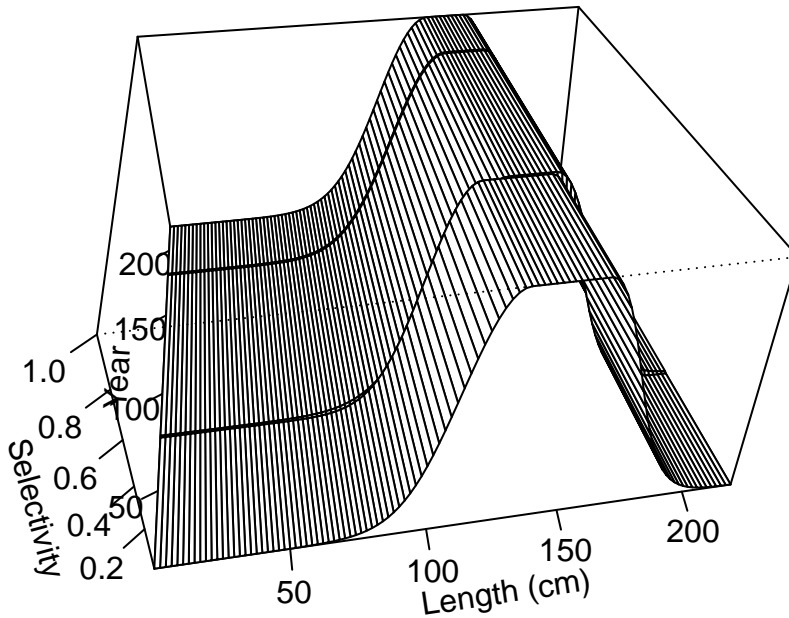
Male time-varying selectivity for A3-LL-n



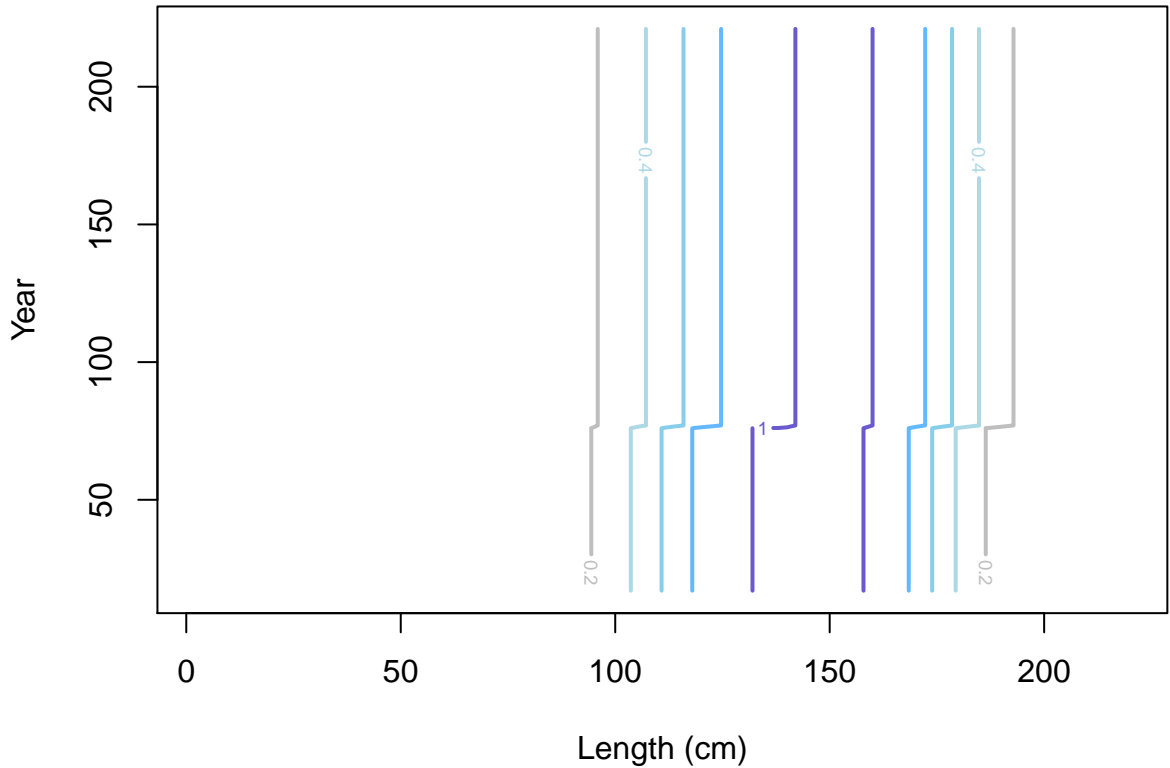
Male ending year selectivity for A3-LL-n



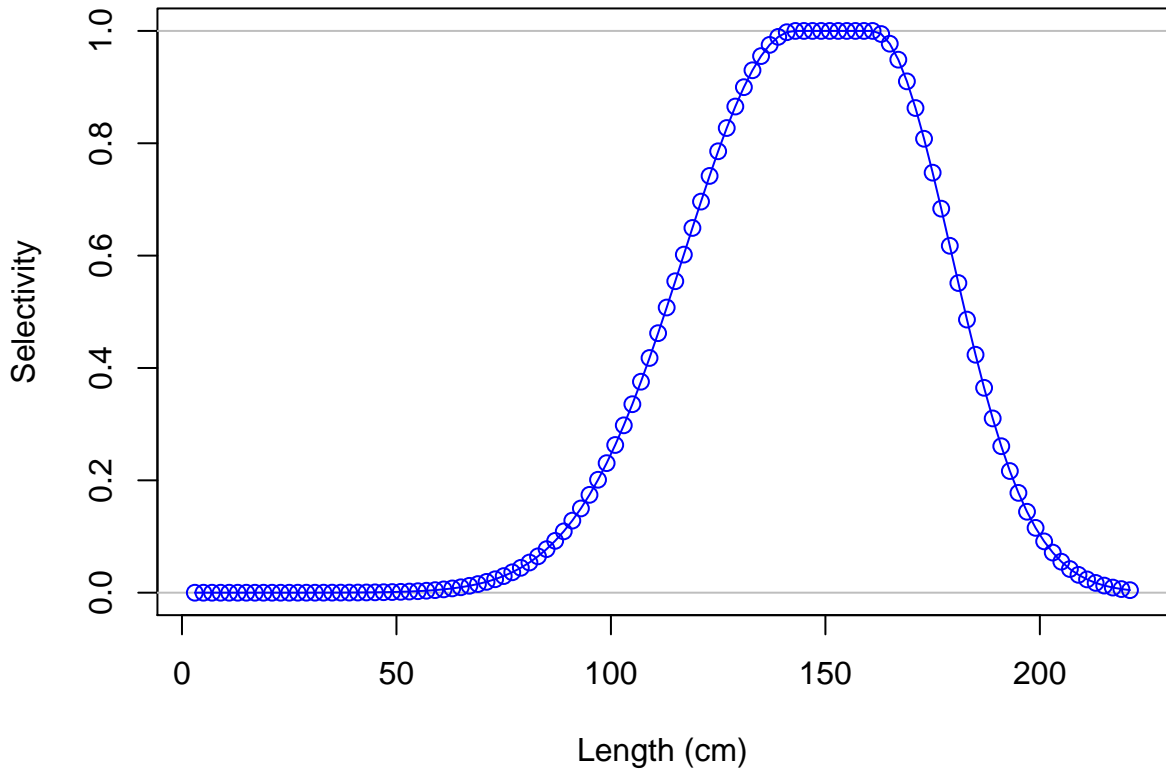
Female time-varying selectivity for A4-LL-n



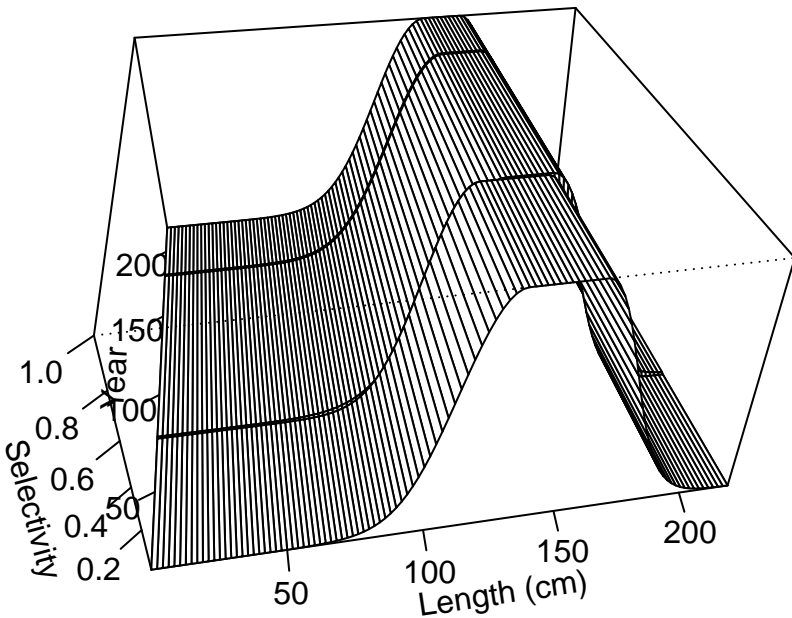
Female time-varying selectivity for A4-LL-n



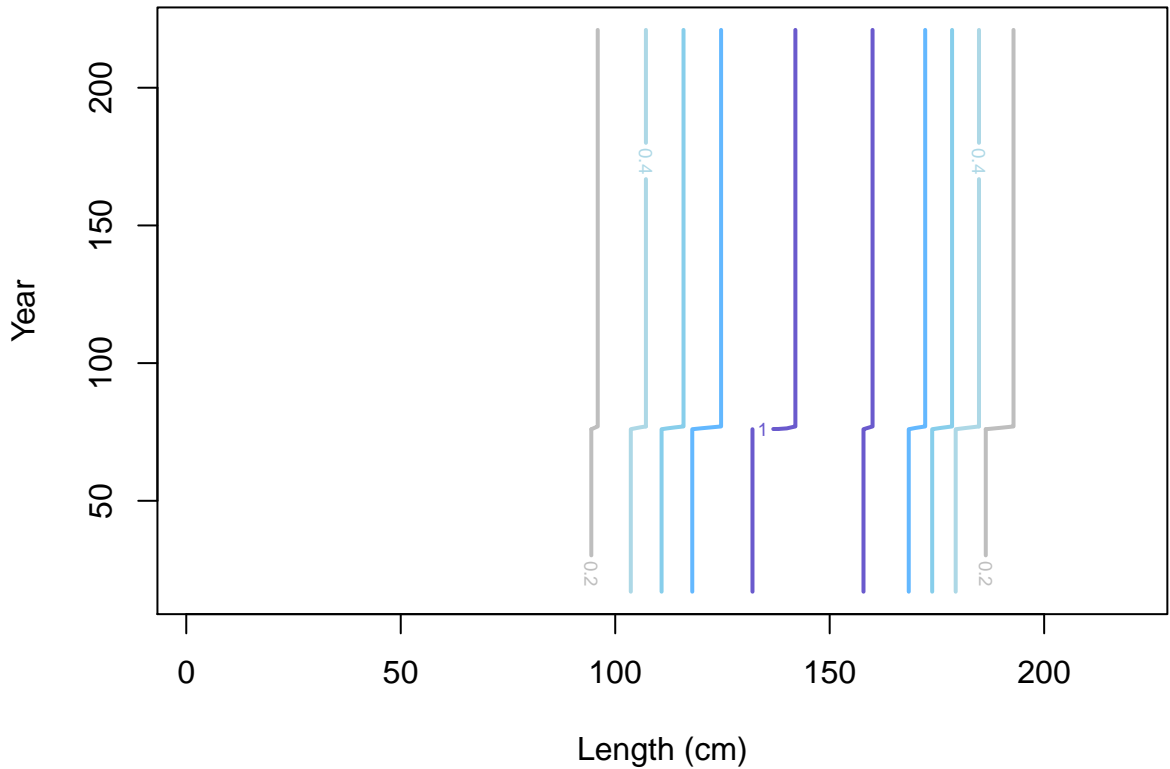
Female ending year selectivity for A4-LL-n



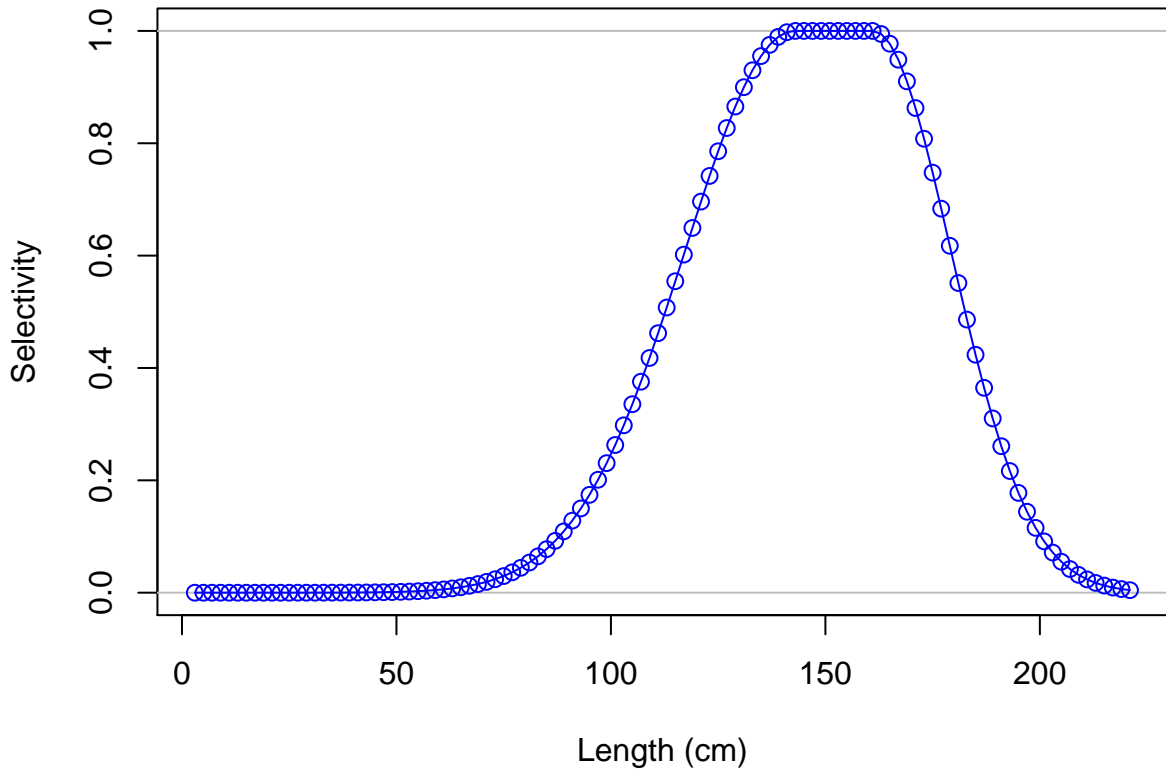
Male time-varying selectivity for A4-LL-n



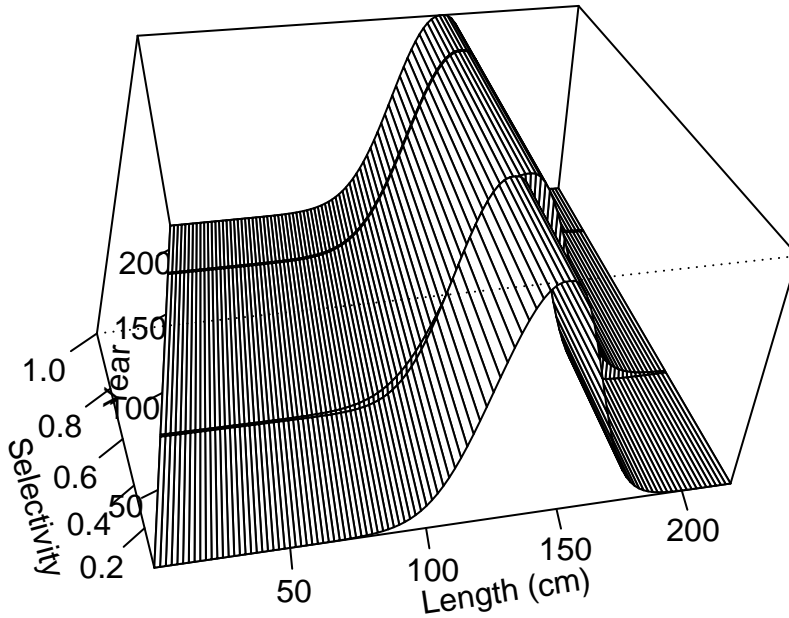
Male time-varying selectivity for A4-LL-n



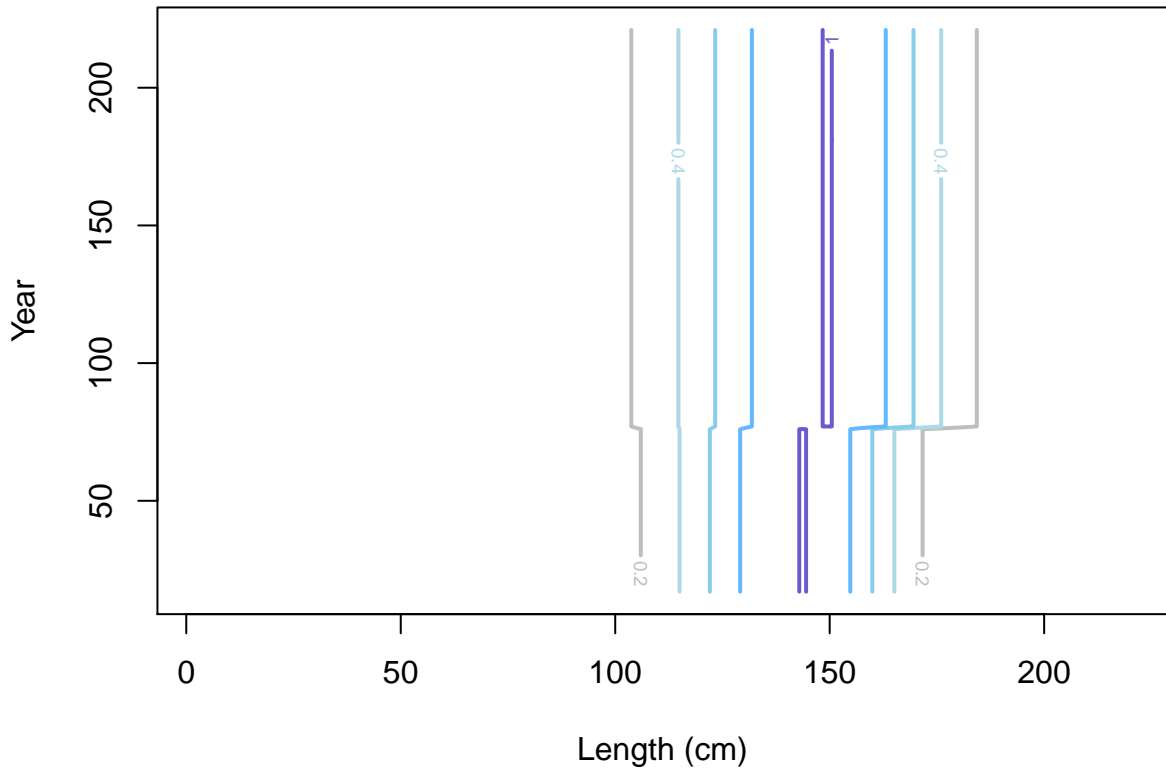
Male ending year selectivity for A4-LL-n



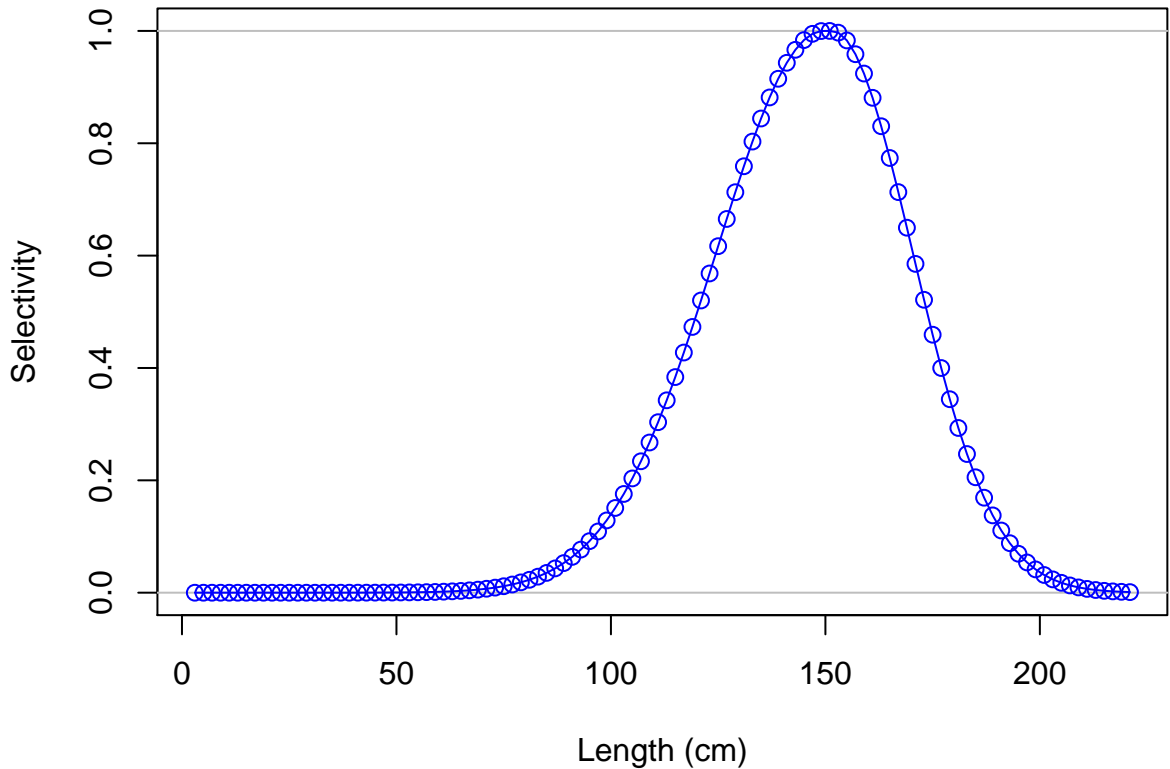
Female time-varying selectivity for A5-LL-n



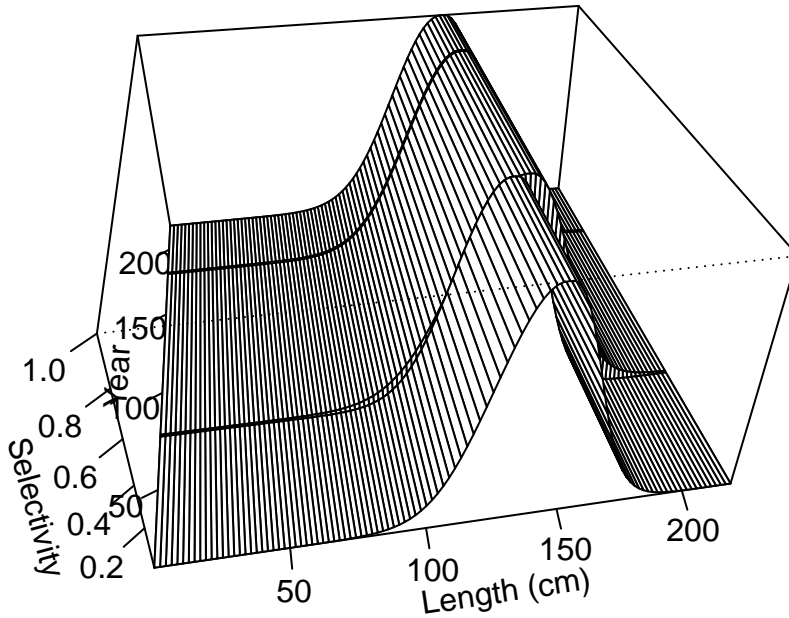
Female time-varying selectivity for A5-LL-n



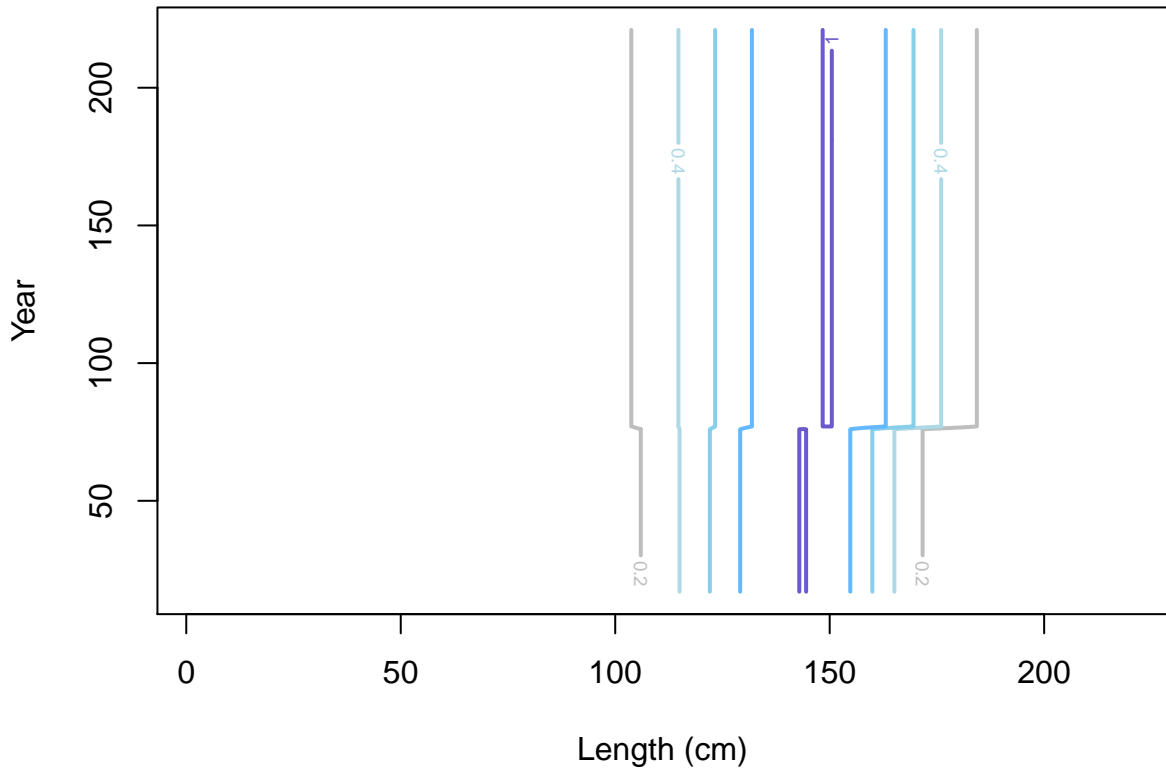
Female ending year selectivity for A5-LL-n



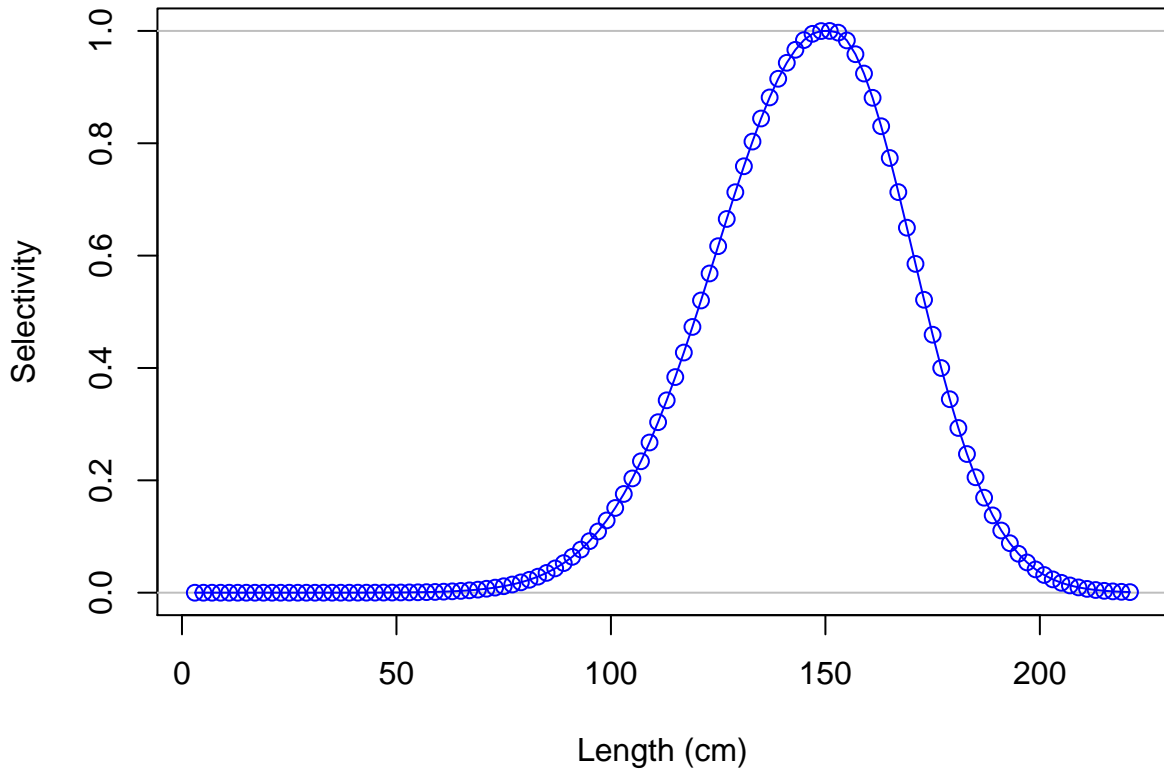
Male time-varying selectivity for A5-LL-n



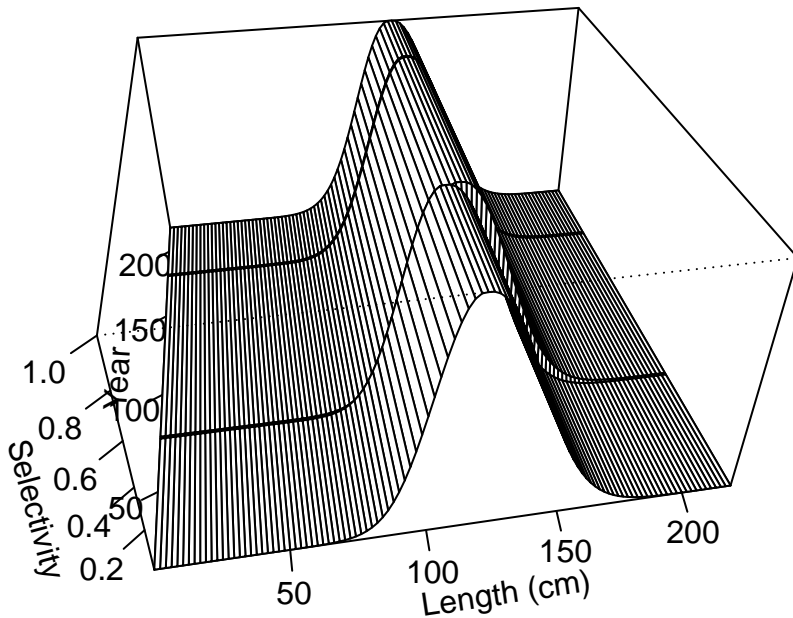
Male time-varying selectivity for A5-LL-n



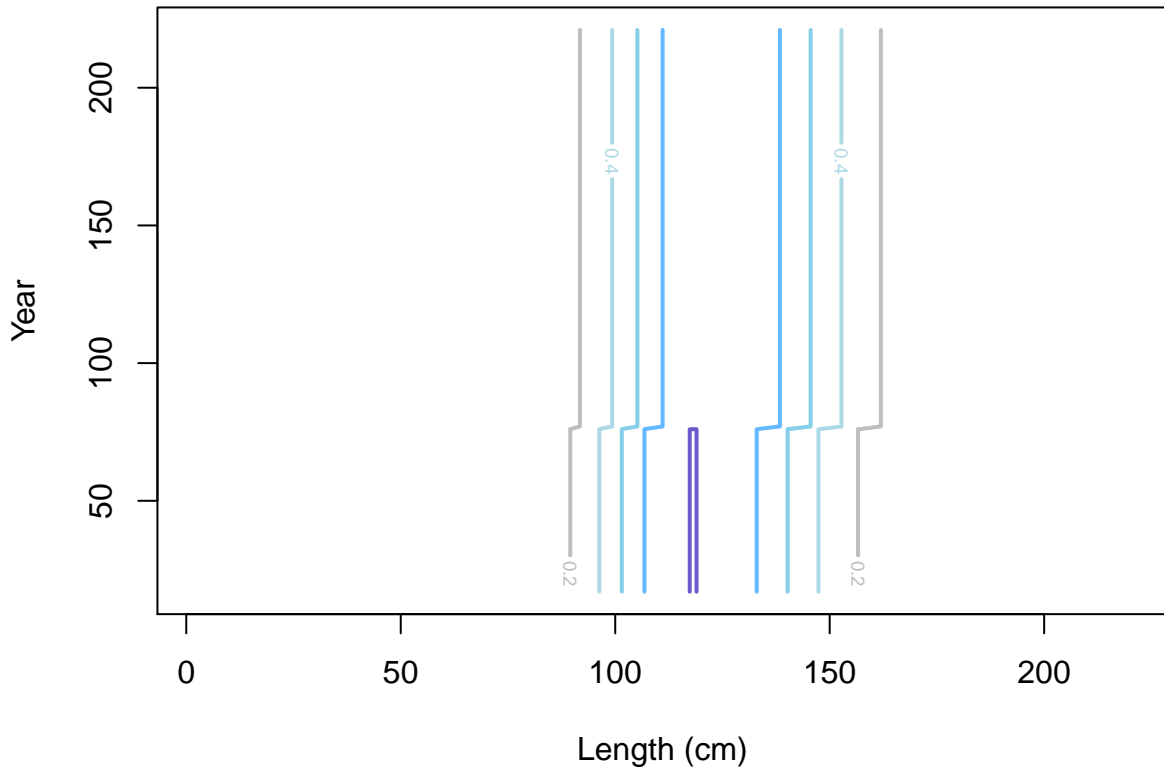
Male ending year selectivity for A5-LL-n



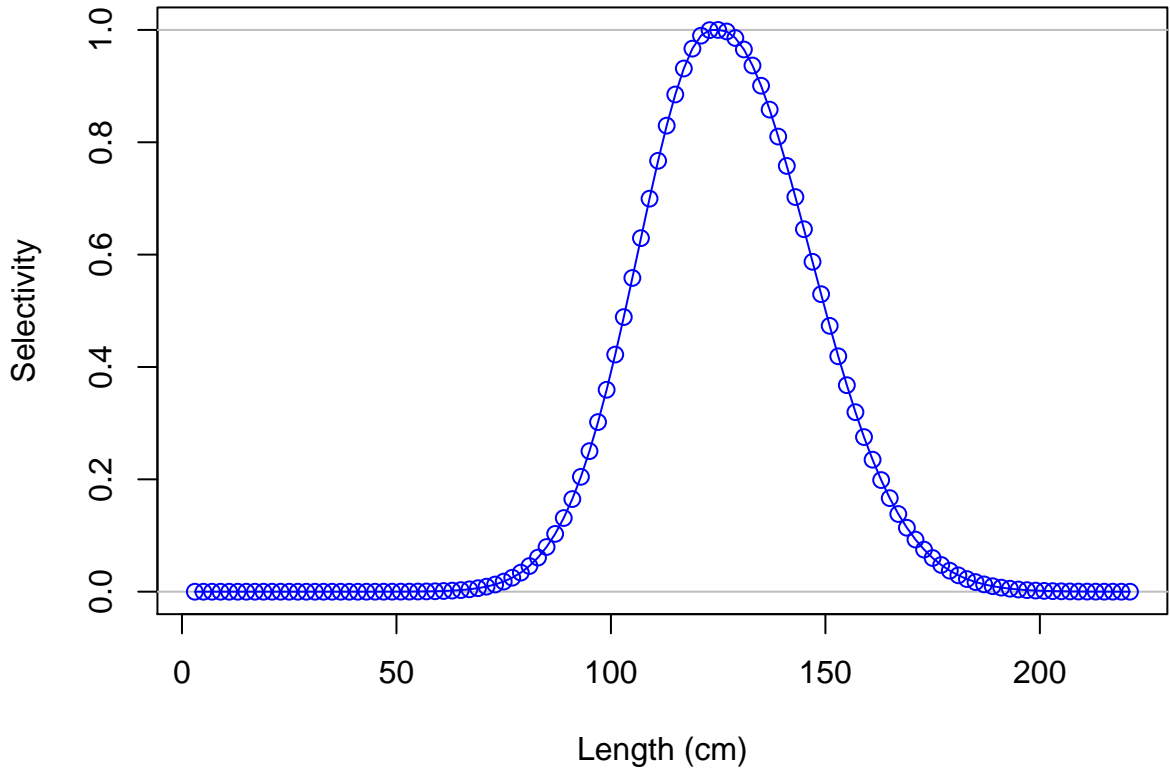
Female time-varying selectivity for A6-LL-n



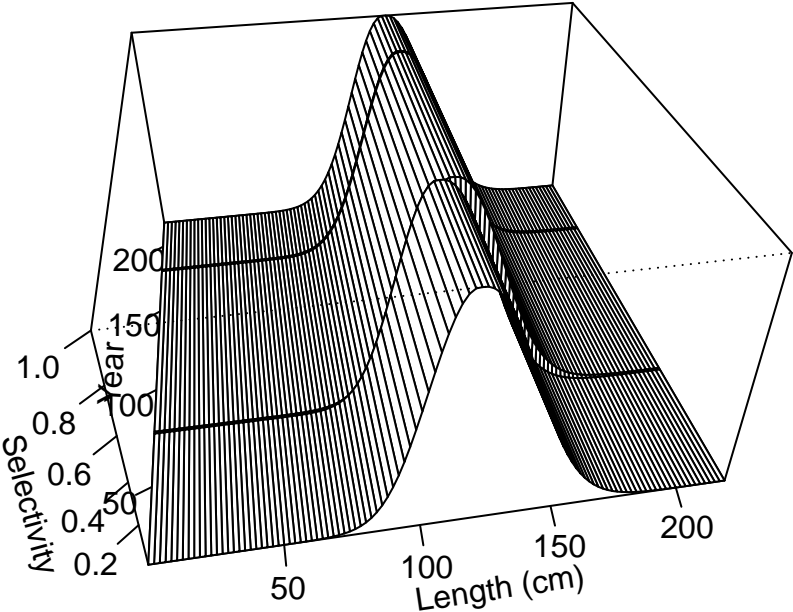
Female time-varying selectivity for A6-LL-n



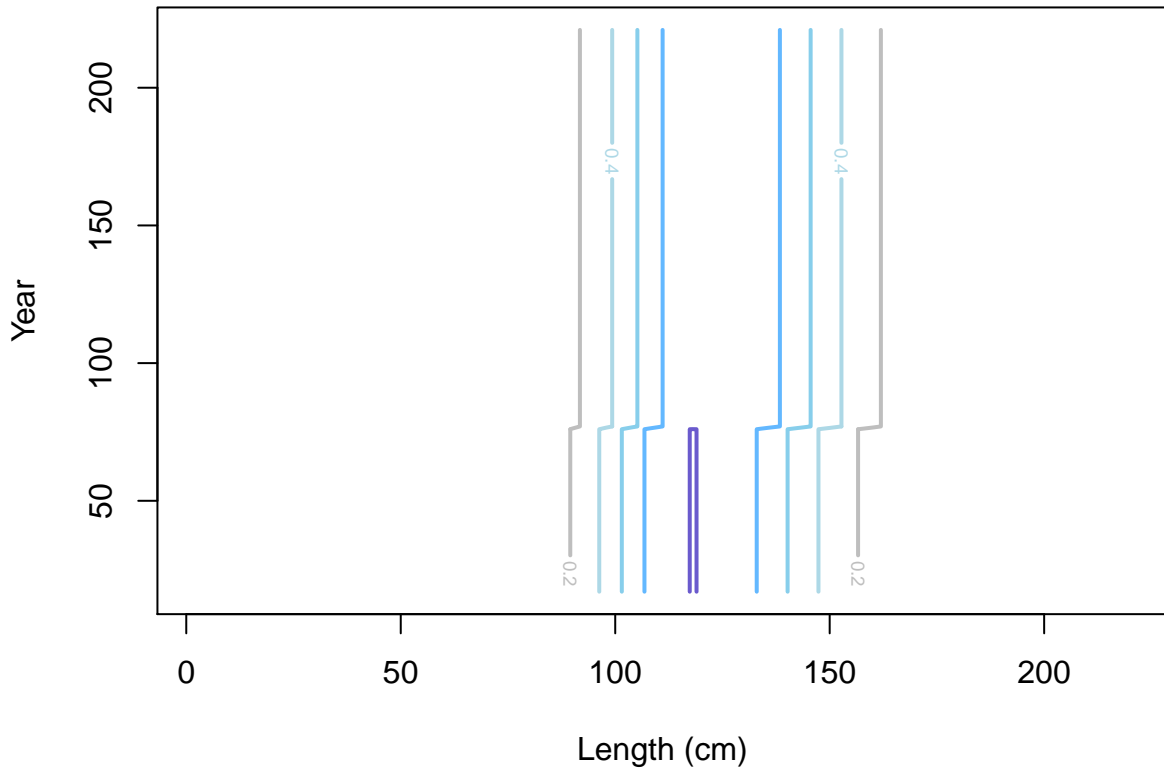
Female ending year selectivity for A6-LL-n



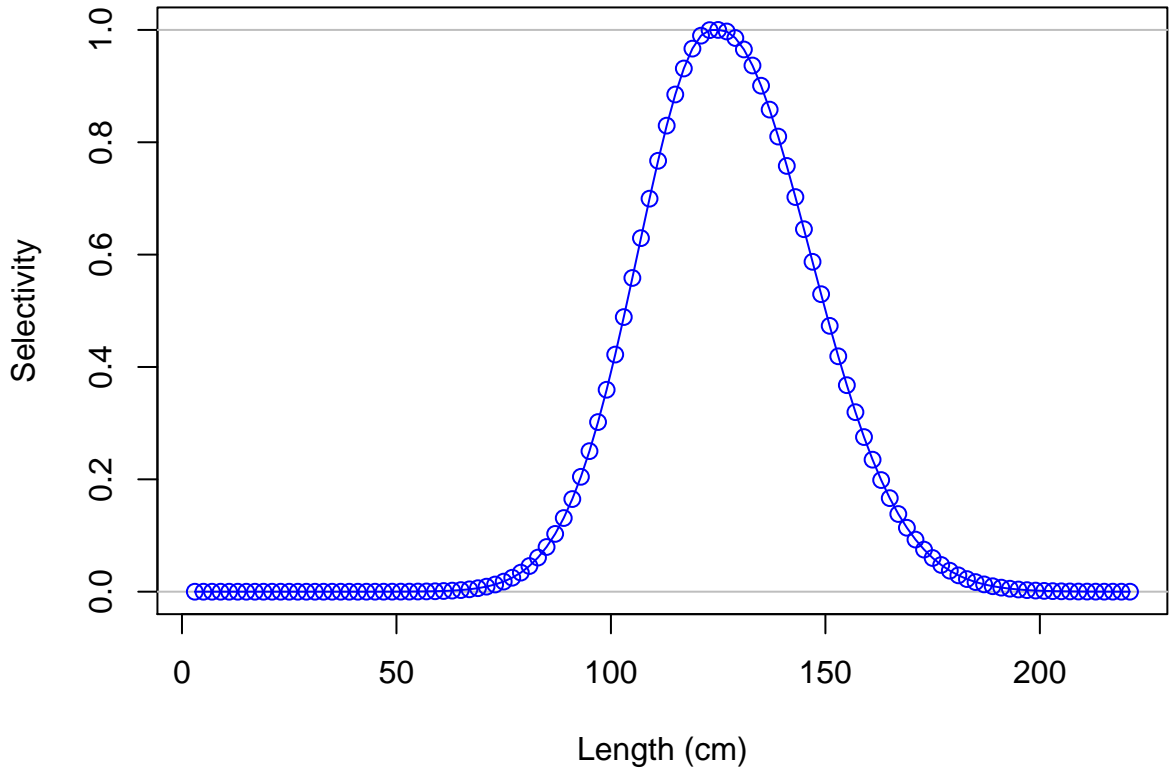
Male time-varying selectivity for A6-LL-n



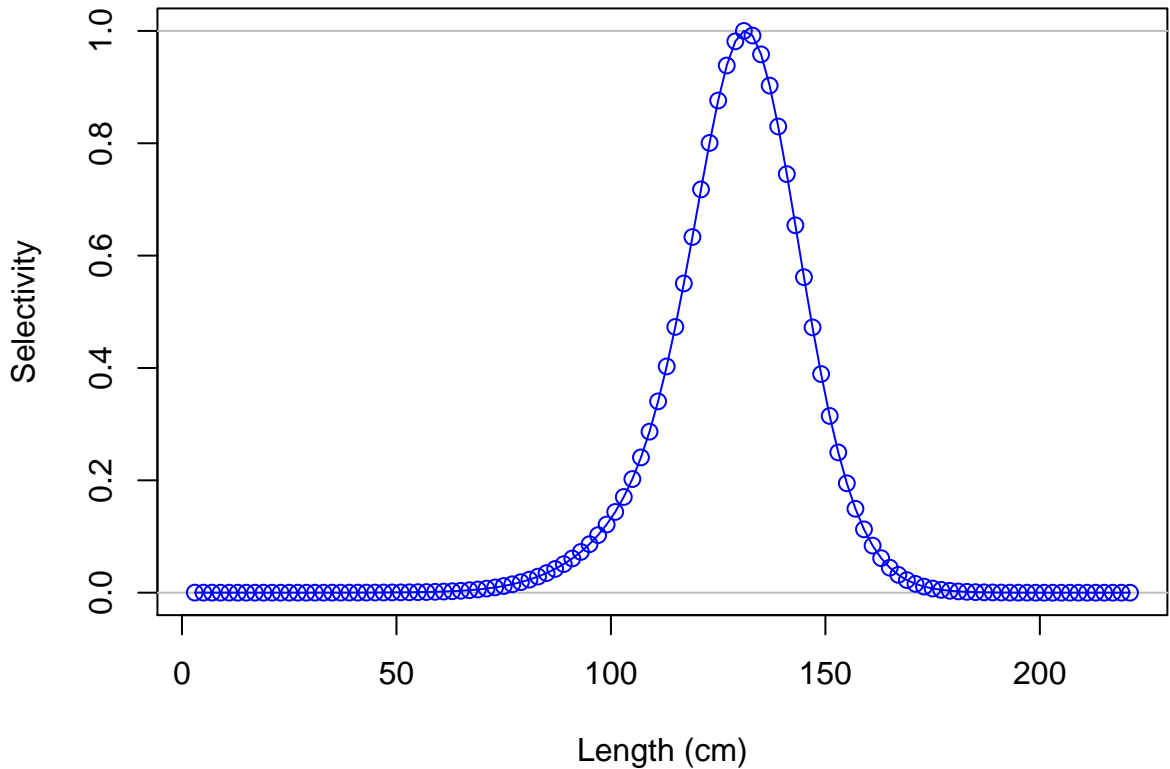
Male time-varying selectivity for A6-LL-n



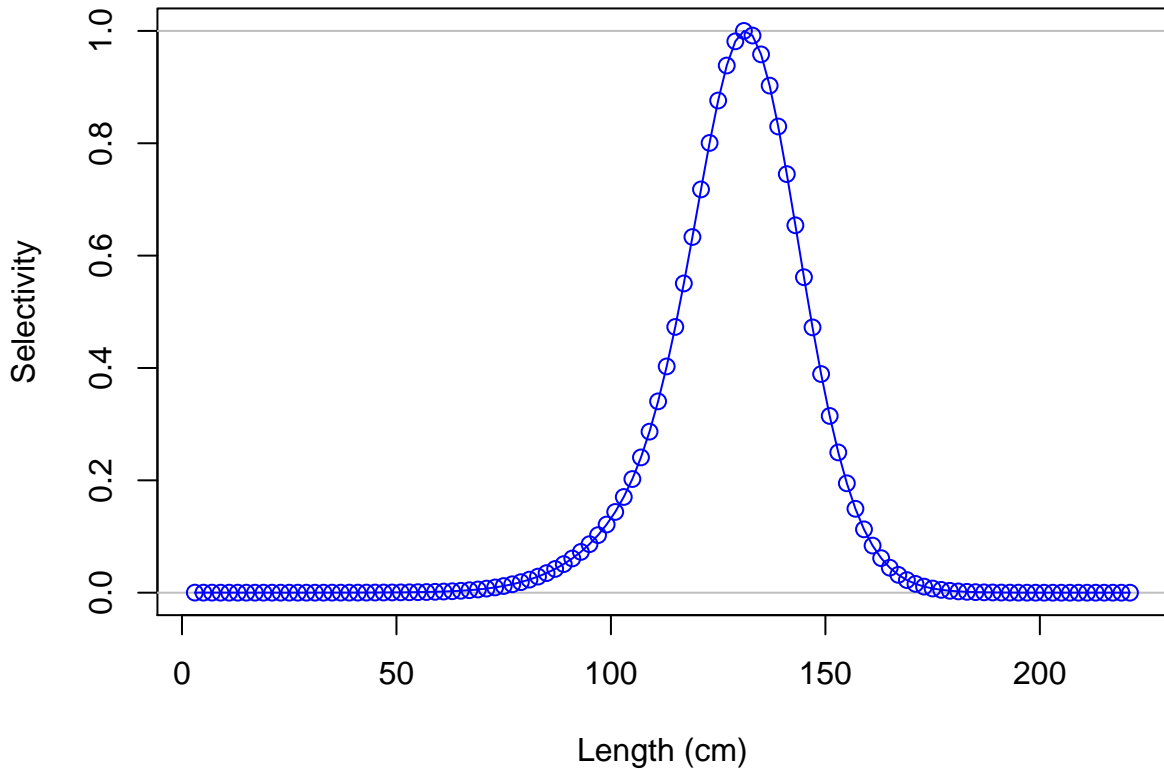
Male ending year selectivity for A6-LL-n



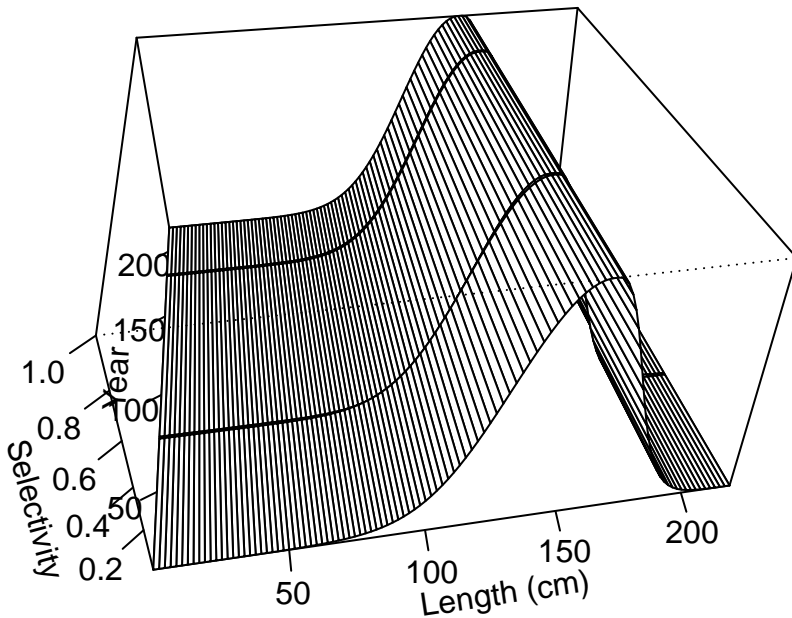
Female ending year selectivity for A1-LL-w



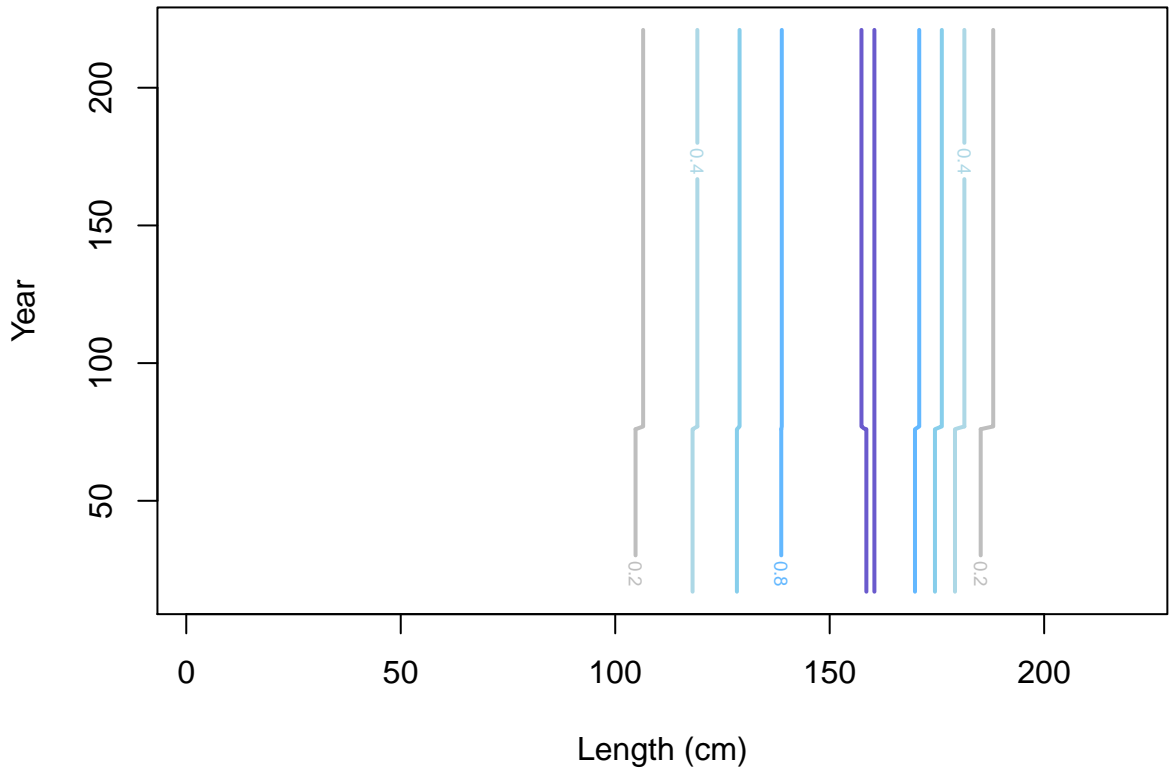
Male ending year selectivity for A1-LL-w



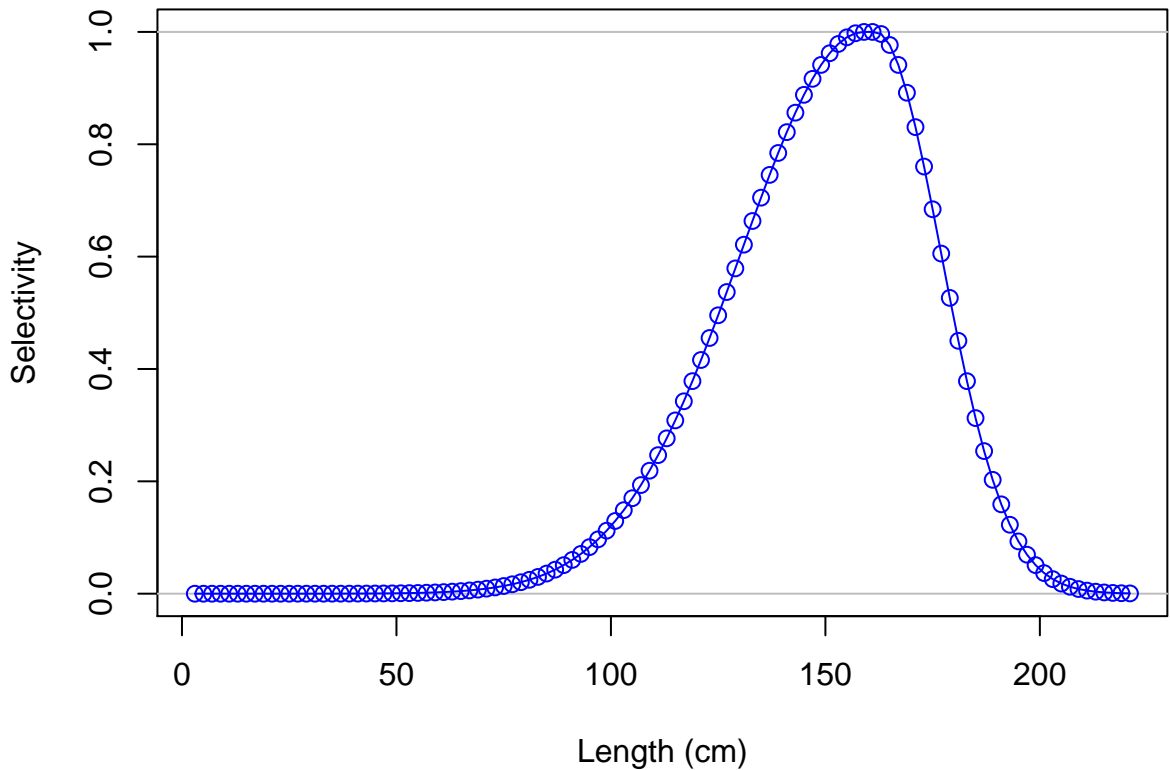
Female time-varying selectivity for A2-LL-w



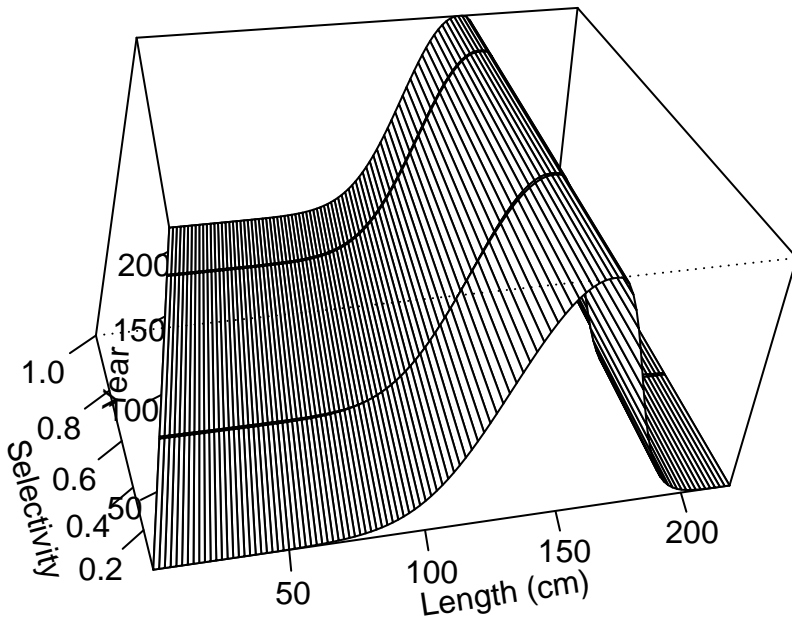
Female time-varying selectivity for A2-LL-w



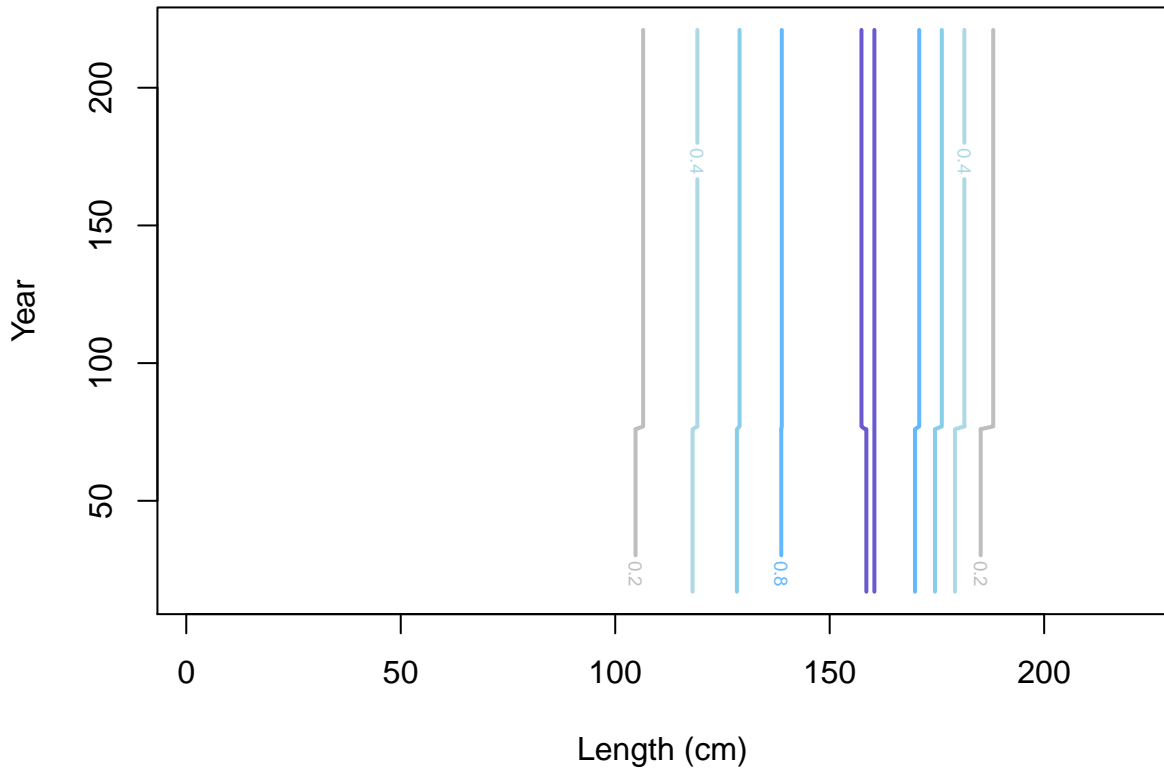
Female ending year selectivity for A2-LL-w



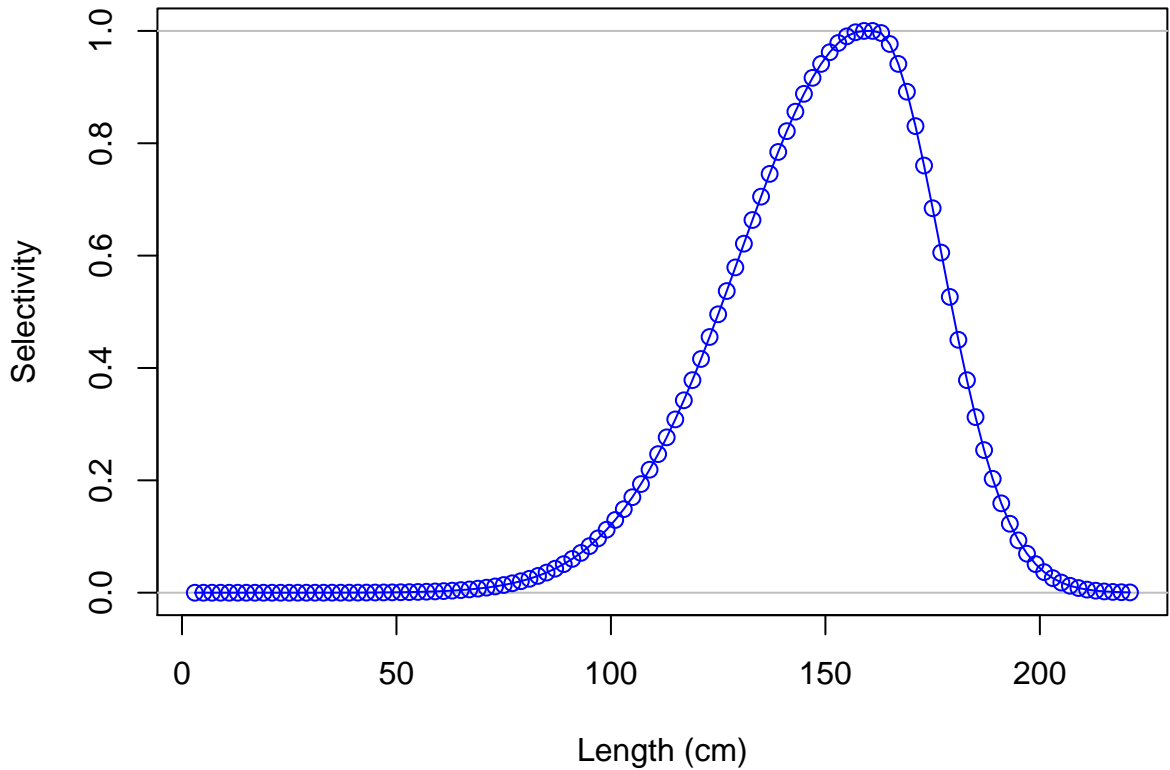
Male time-varying selectivity for A2-LL-w



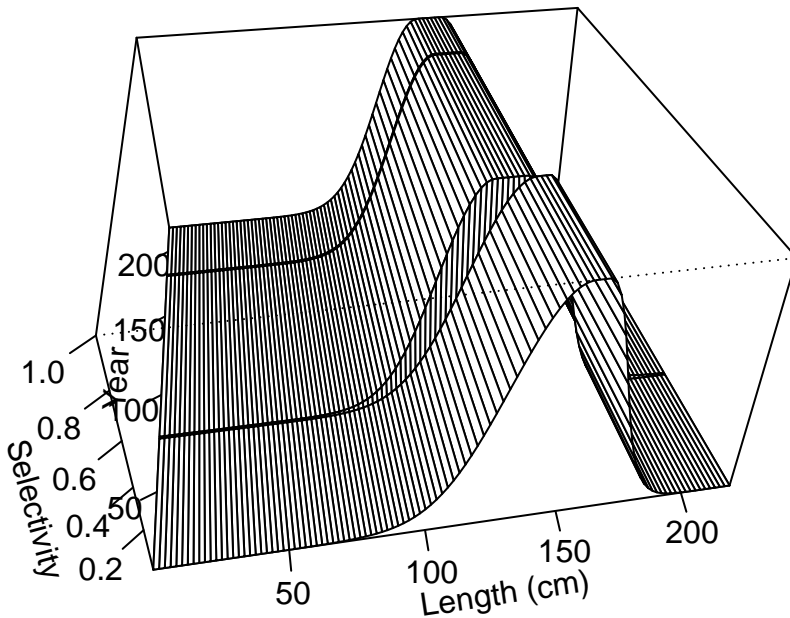
Male time-varying selectivity for A2-LL-w



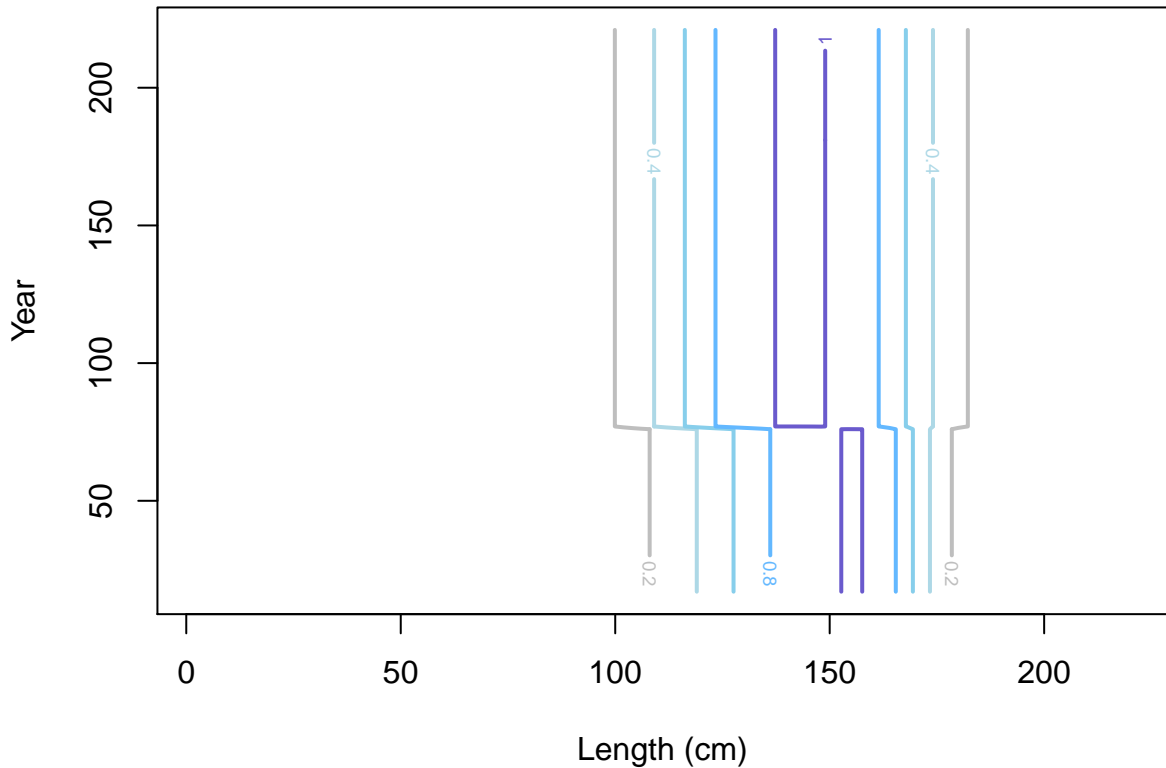
Male ending year selectivity for A2-LL-w



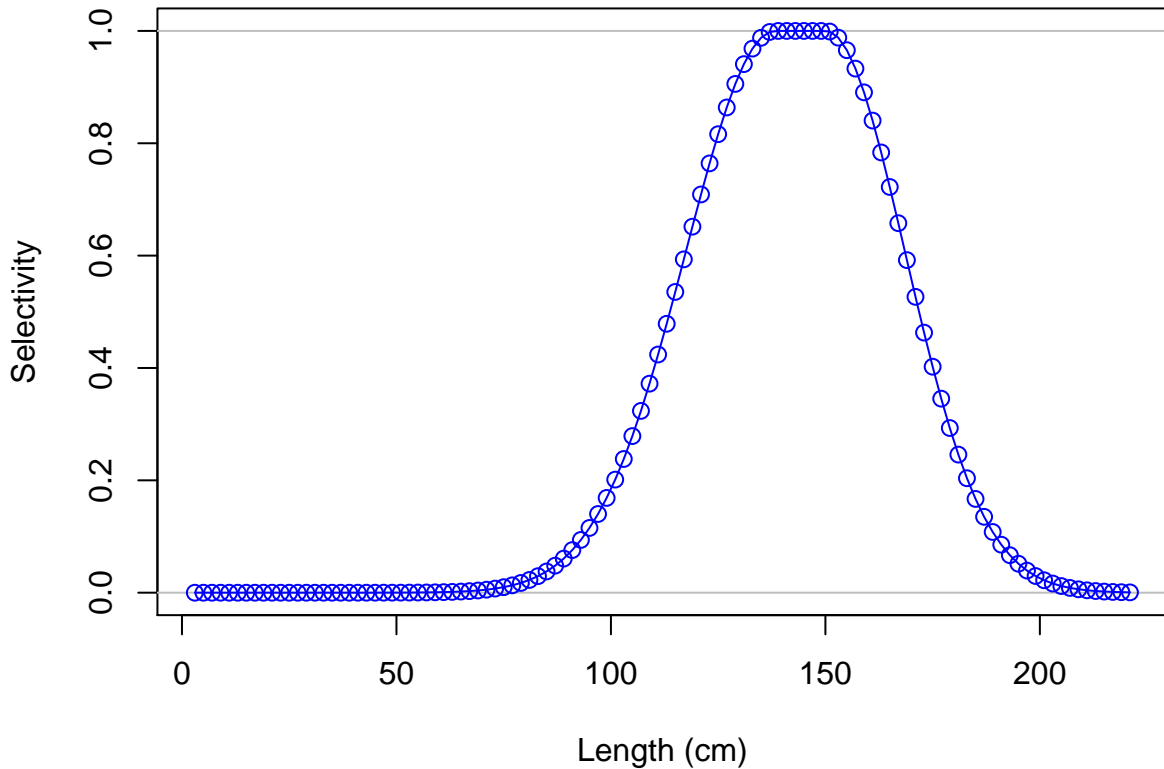
Female time-varying selectivity for A3-LL-w



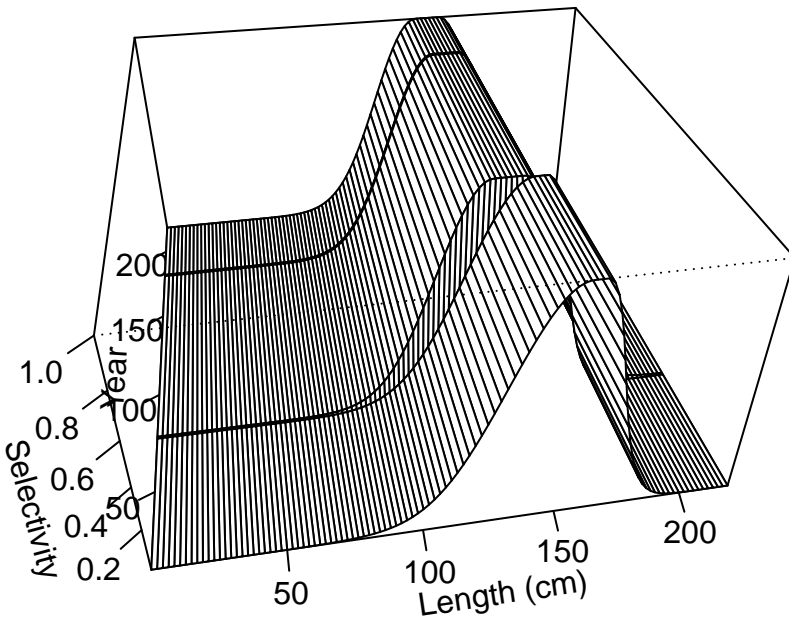
Female time-varying selectivity for A3-LL-w



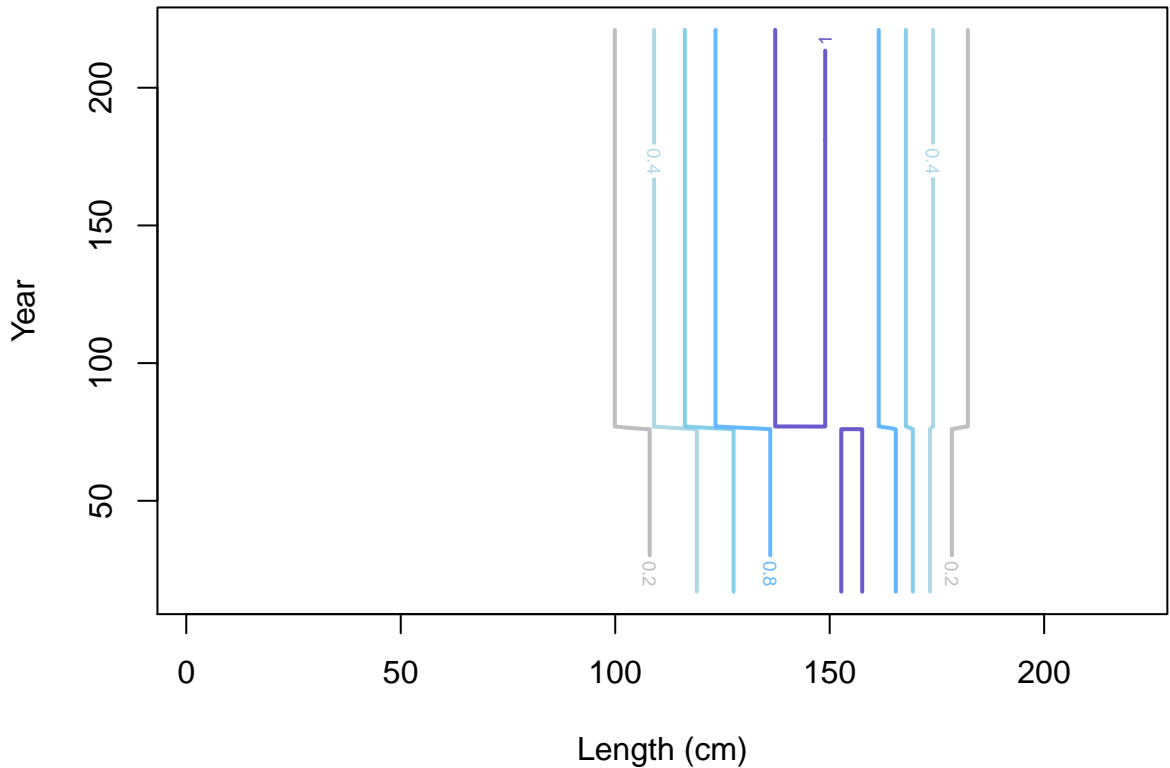
Female ending year selectivity for A3-LL-w



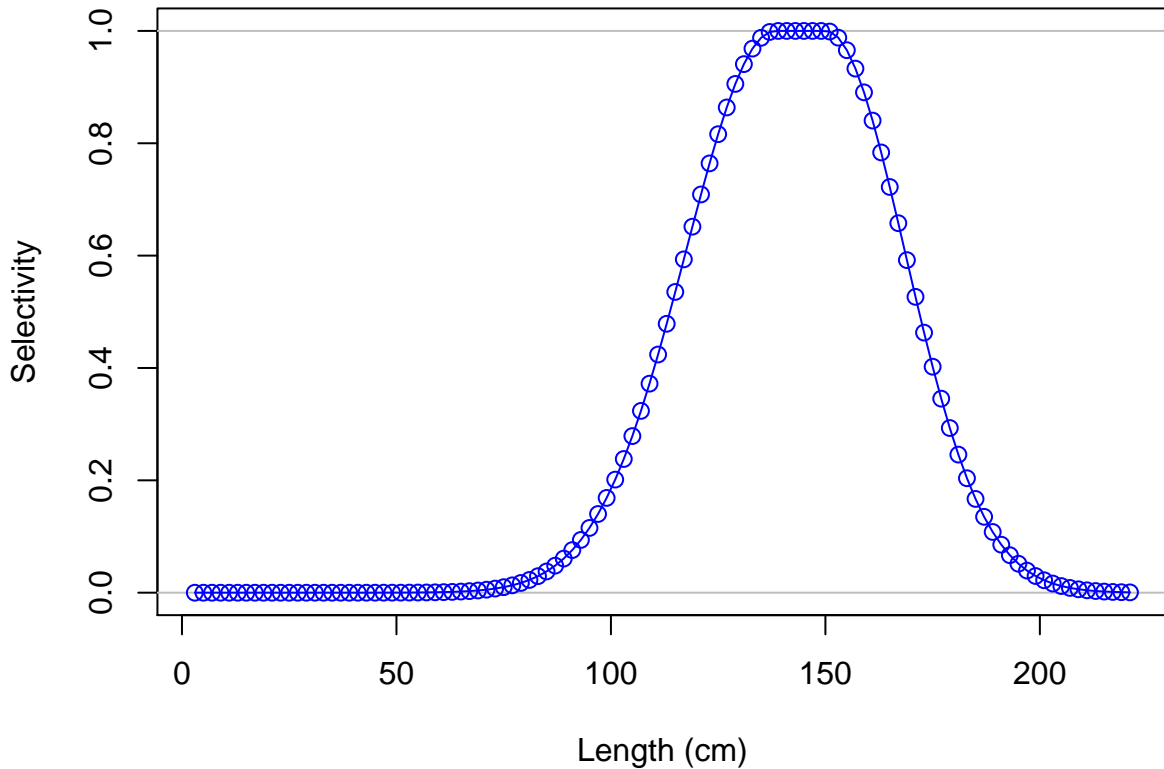
Male time-varying selectivity for A3-LL-w



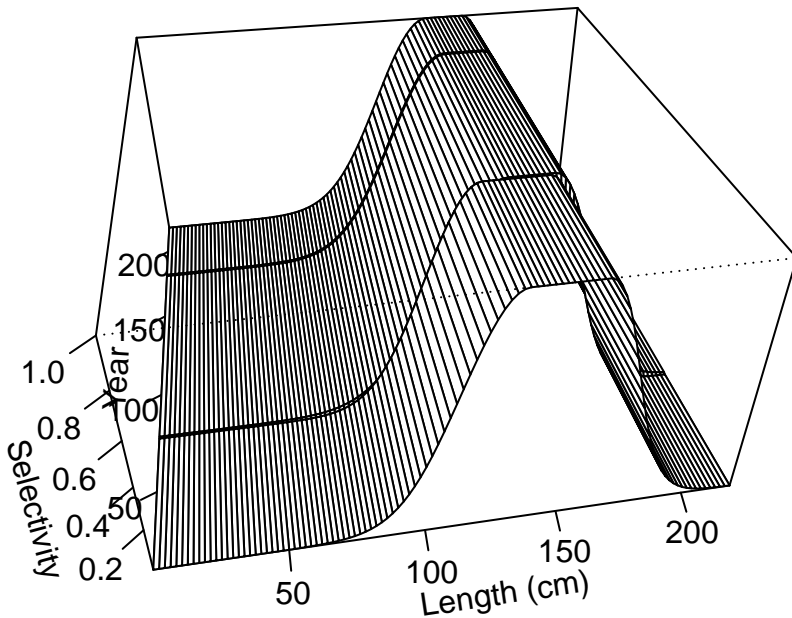
Male time-varying selectivity for A3-LL-w



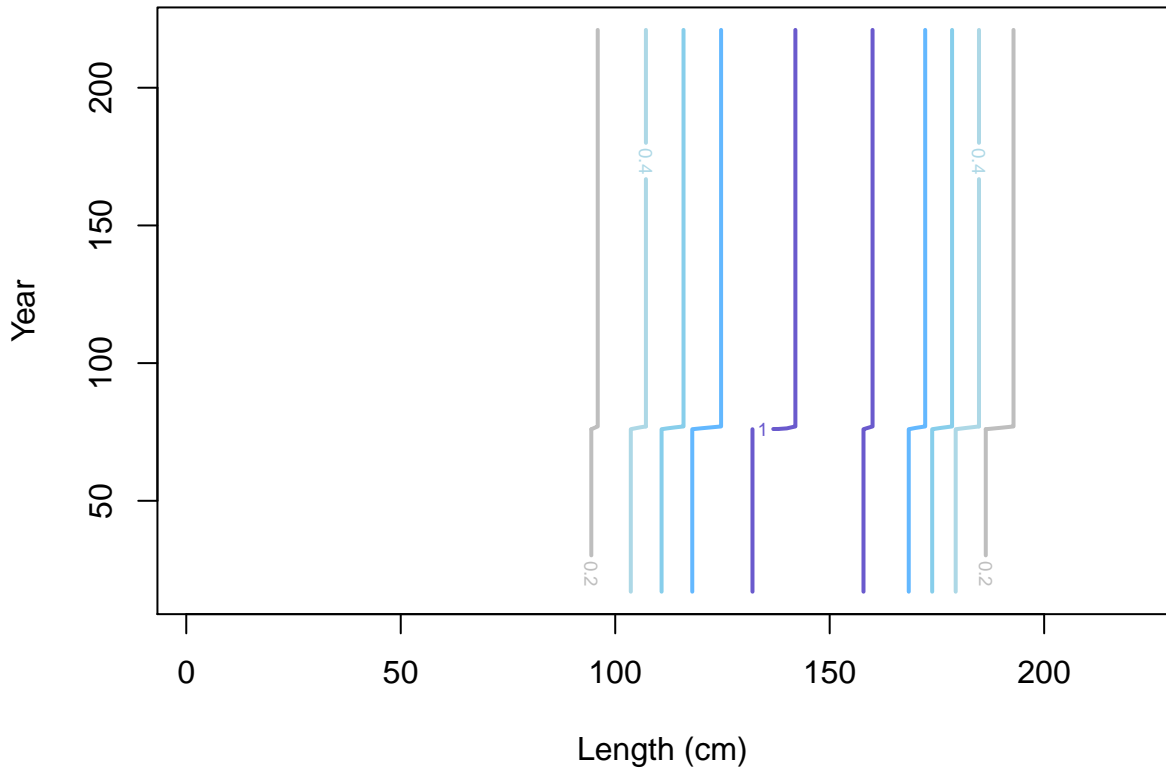
Male ending year selectivity for A3-LL-w



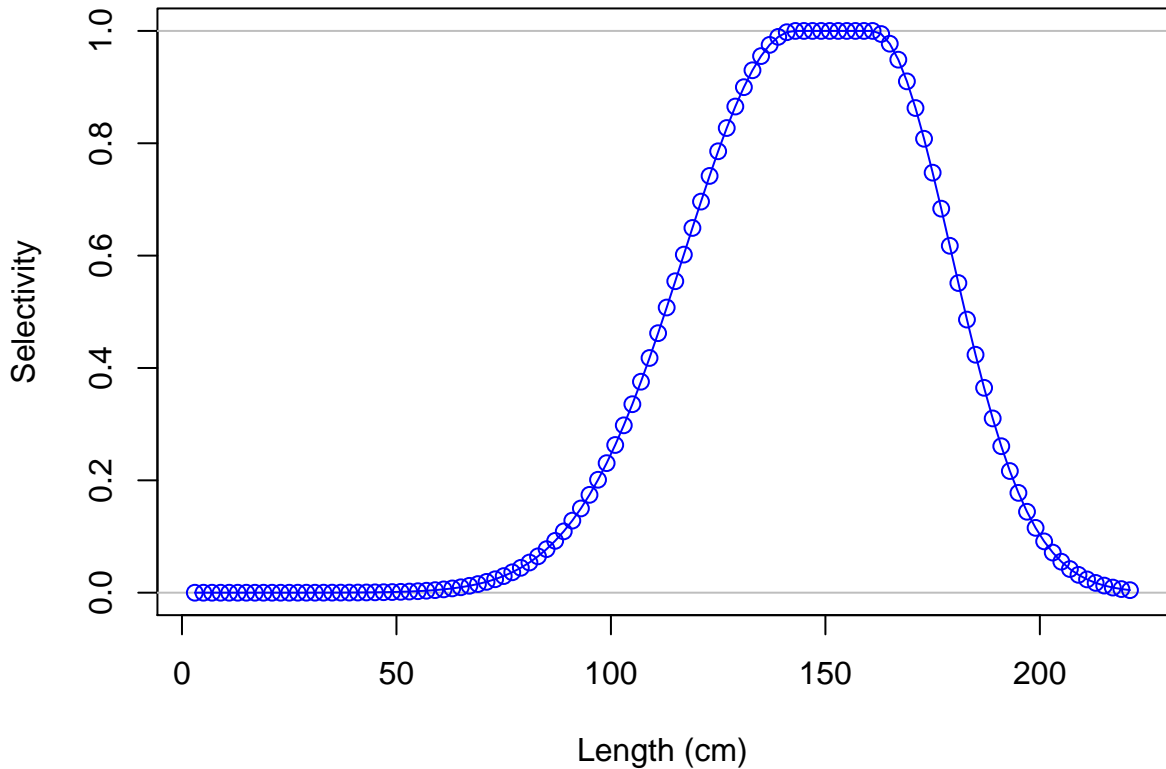
Female time-varying selectivity for A4-LL-w



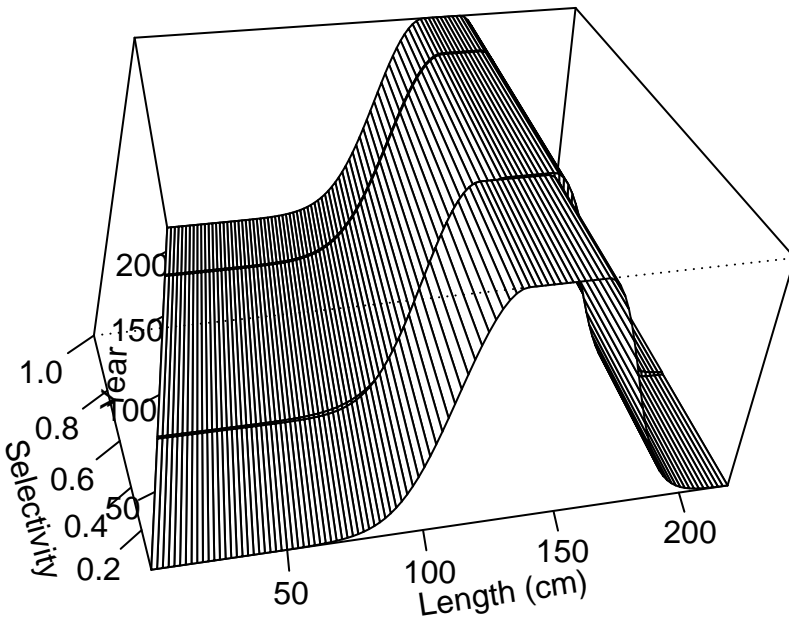
Female time-varying selectivity for A4-LL-w



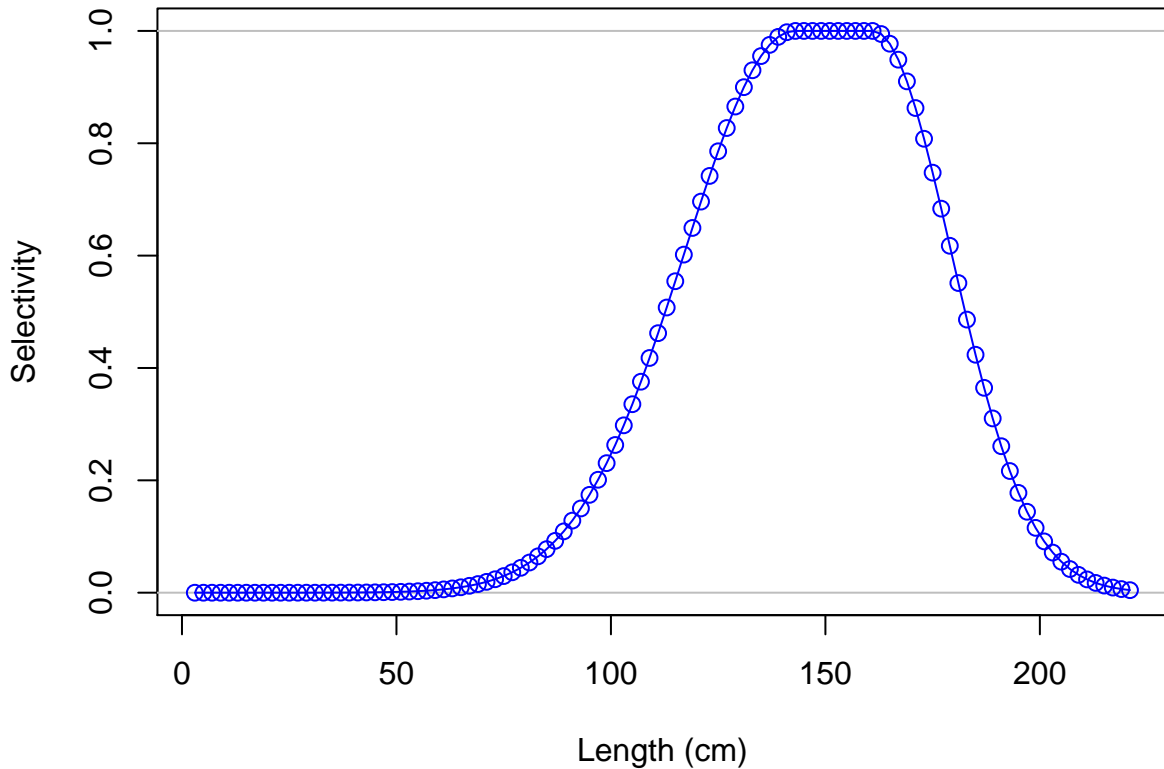
Female ending year selectivity for A4-LL-w



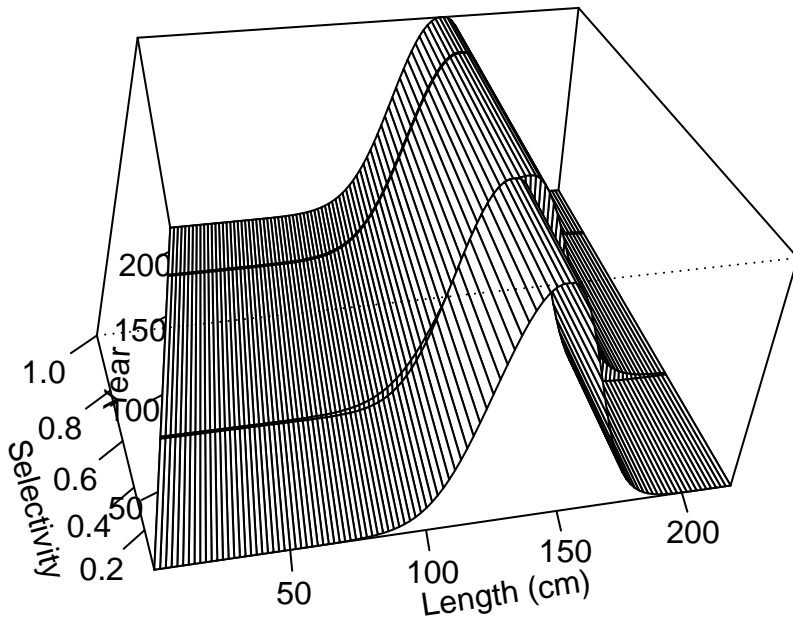
Male time-varying selectivity for A4-LL-w



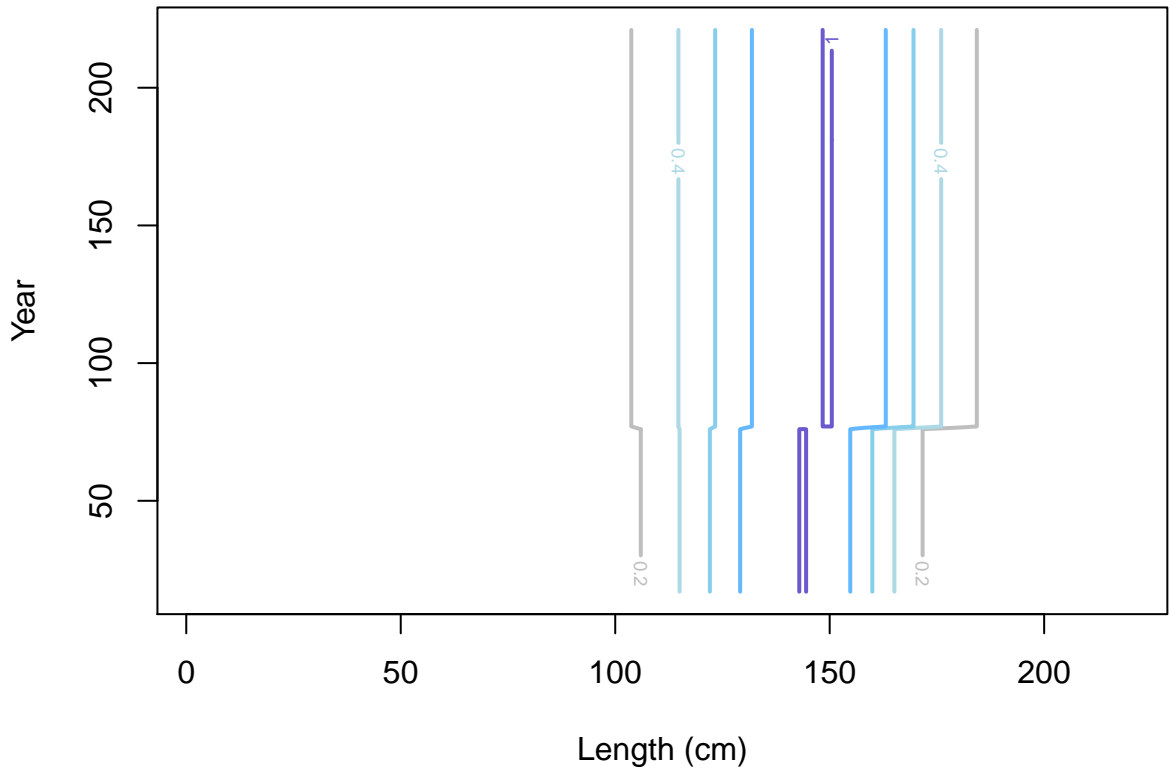
Male ending year selectivity for A4-LL-w



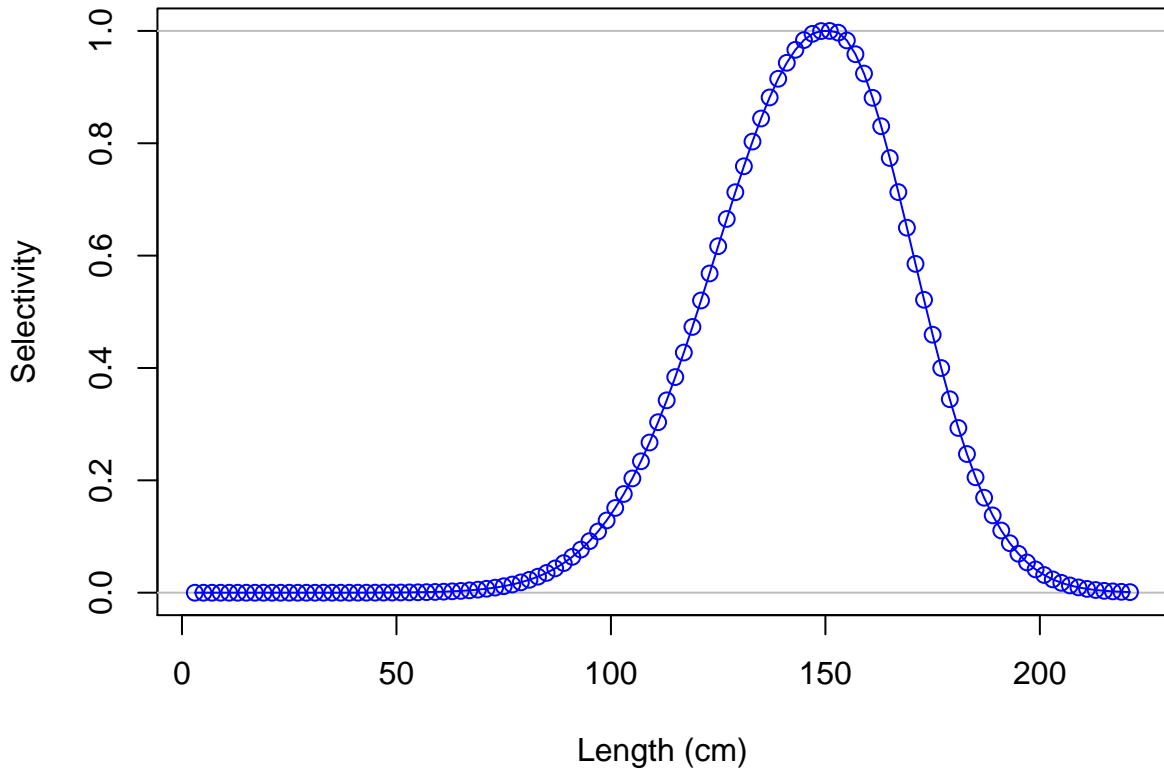
Female time-varying selectivity for A5-LL-w



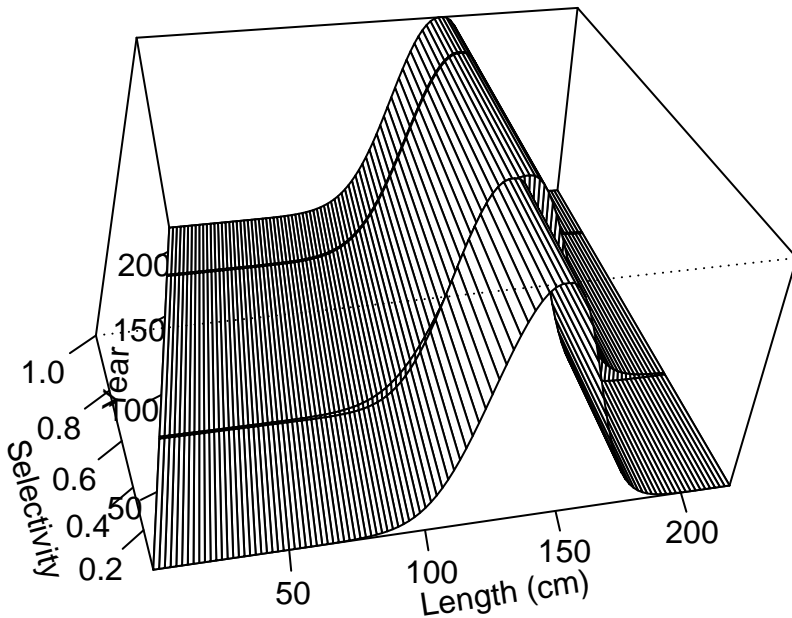
Female time-varying selectivity for A5-LL-w



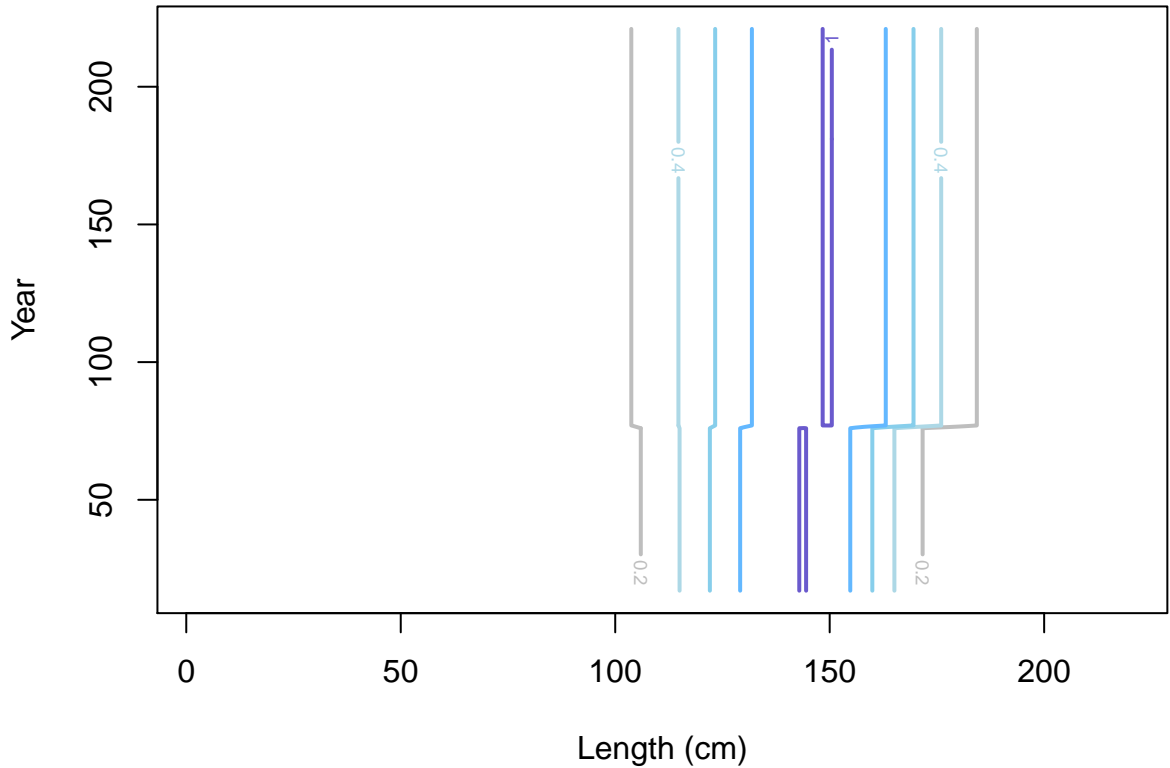
Female ending year selectivity for A5-LL-w



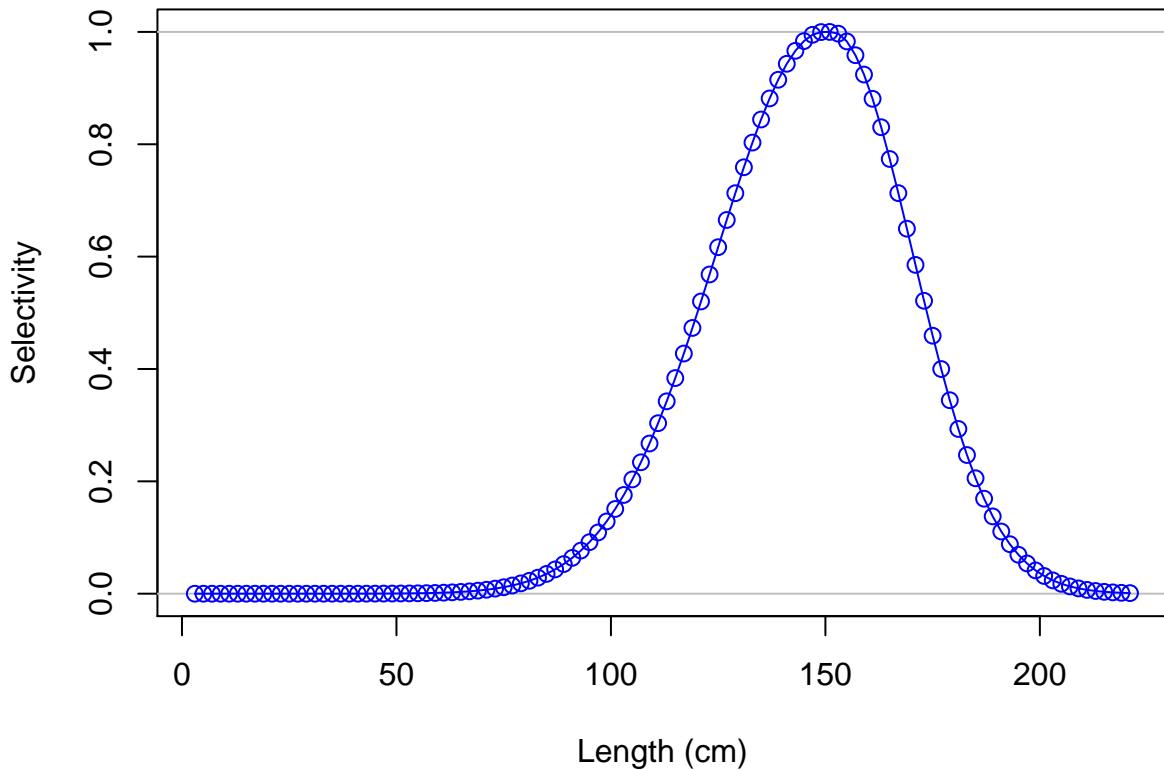
Male time-varying selectivity for A5-LL-w



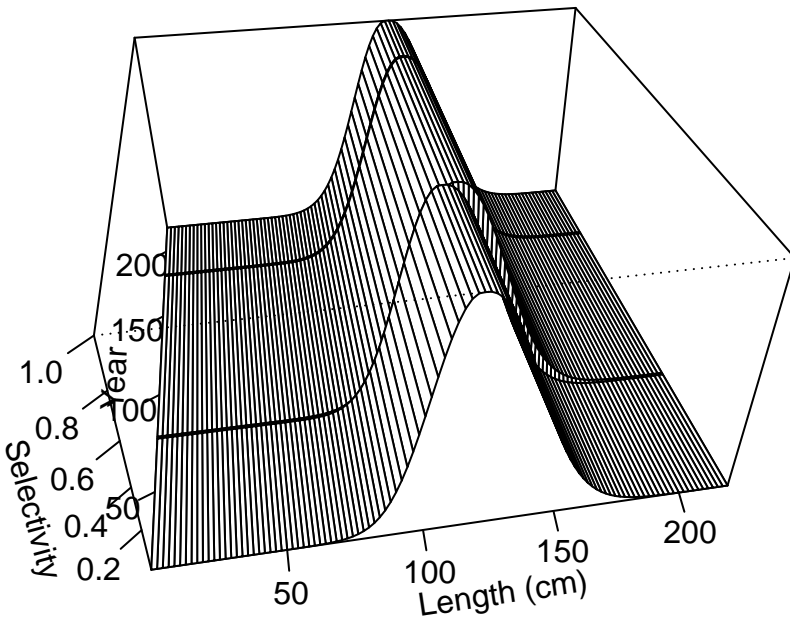
Male time-varying selectivity for A5-LL-w



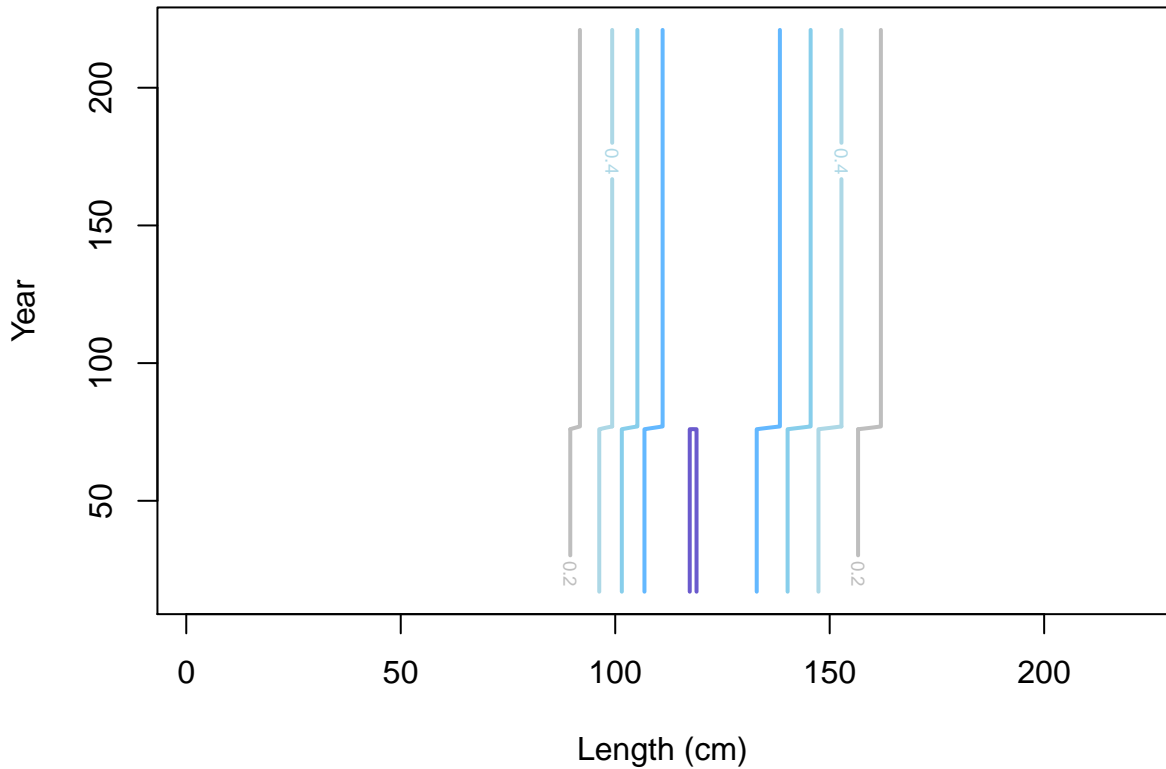
Male ending year selectivity for A5-LL-w



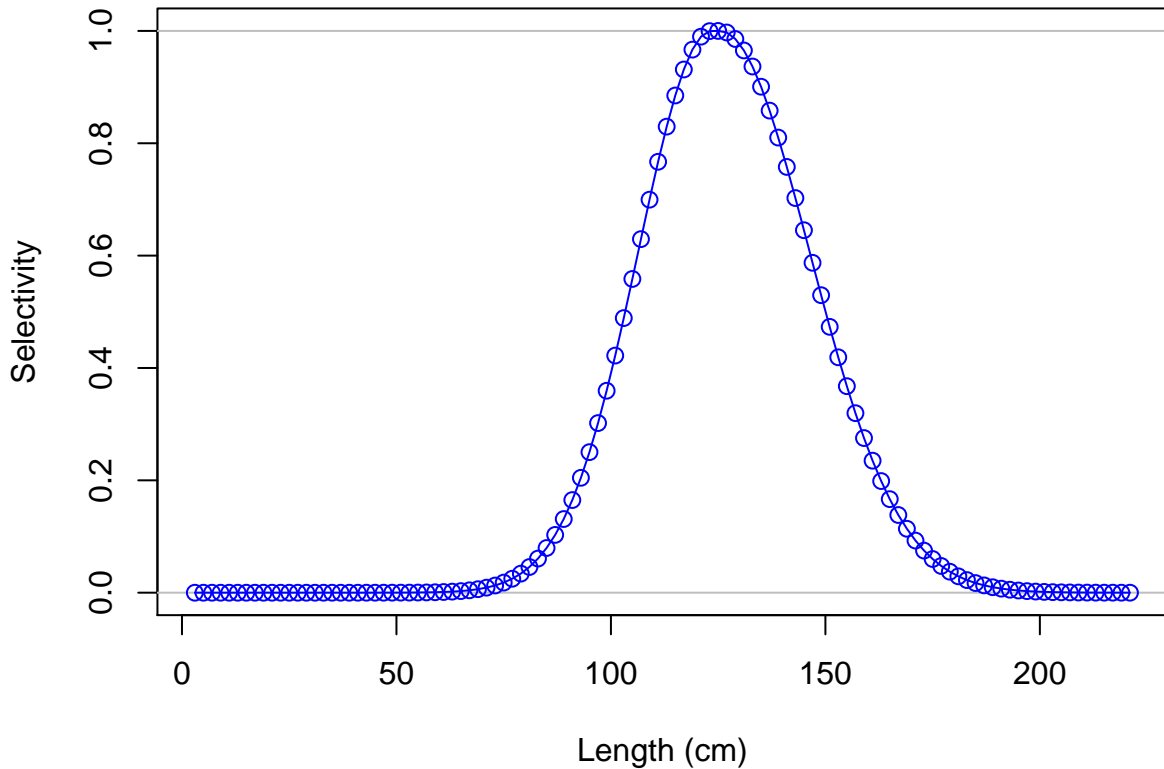
Female time-varying selectivity for A6-LL-w



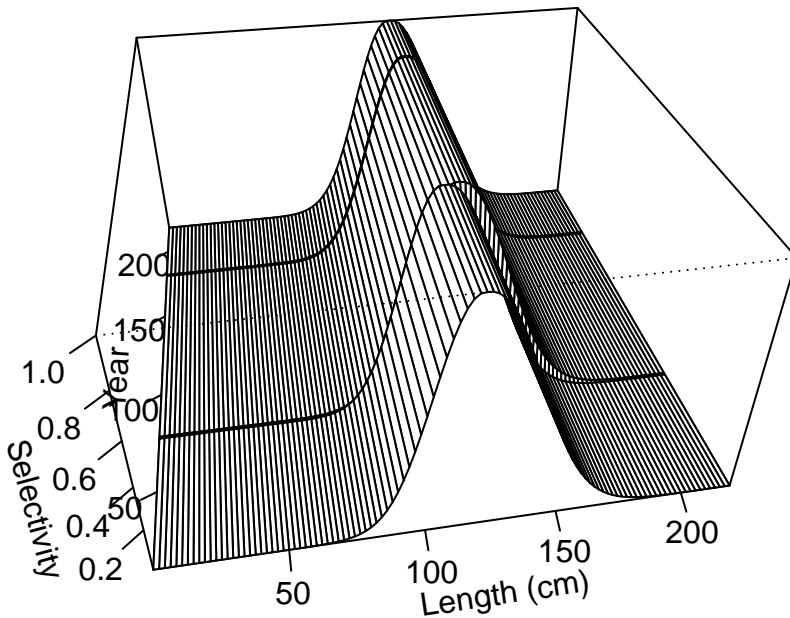
Female time-varying selectivity for A6-LL-w



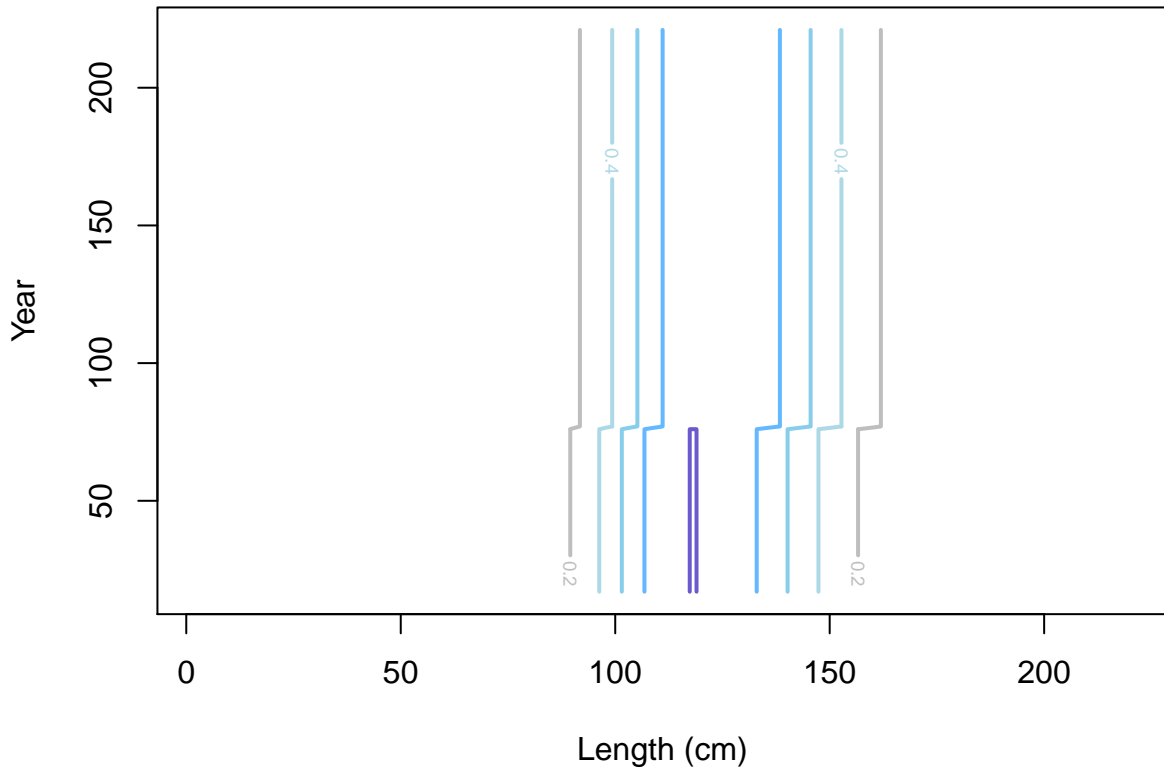
Female ending year selectivity for A6-LL-w



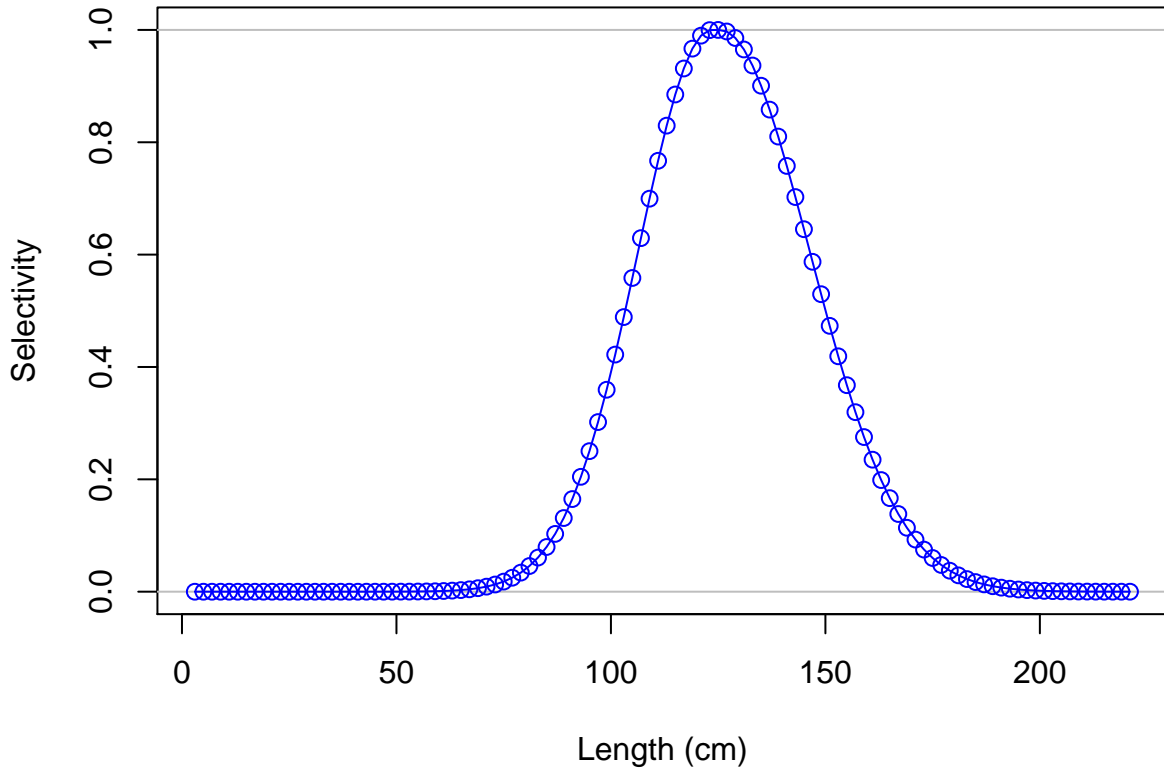
Male time-varying selectivity for A6-LL-w



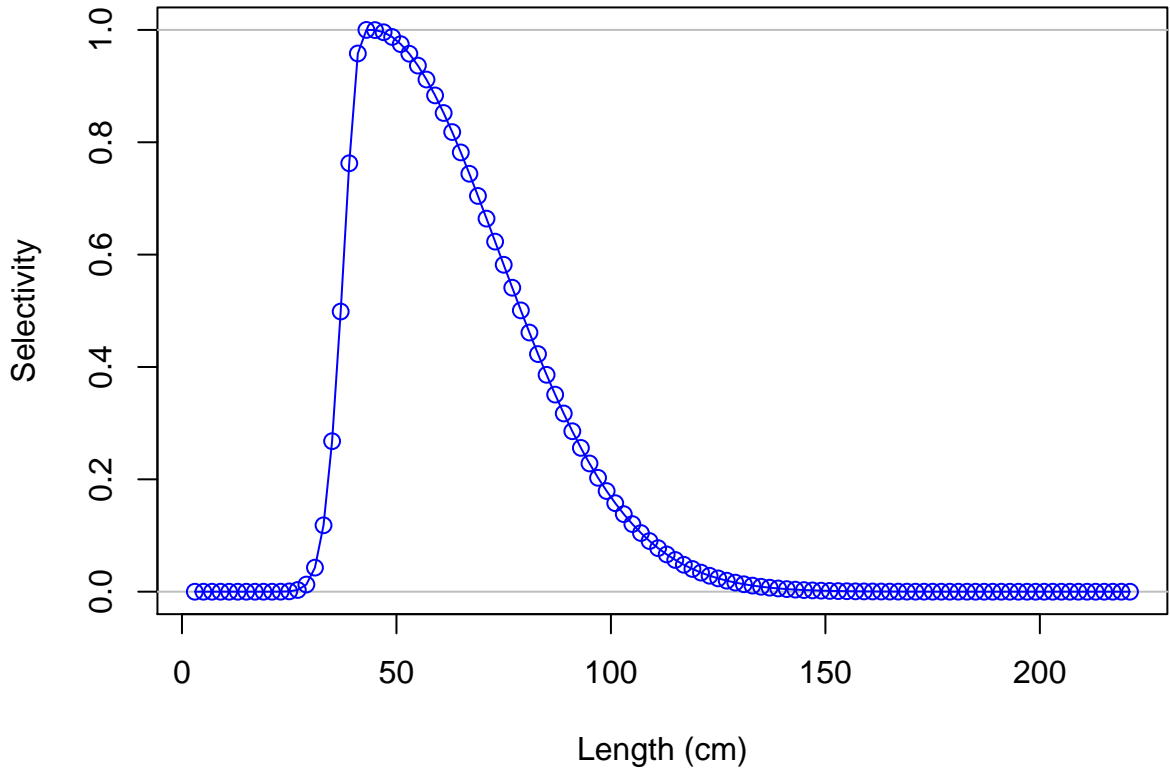
Male time-varying selectivity for A6-LL-w



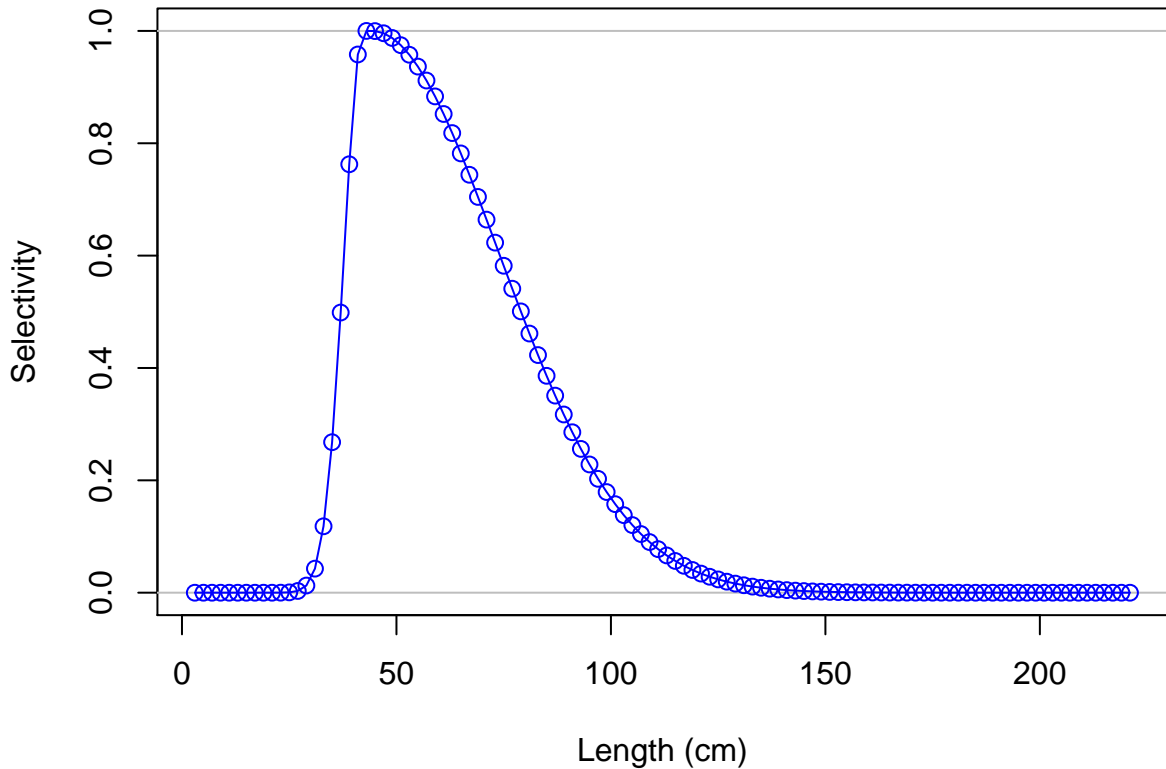
Male ending year selectivity for A6-LL-w



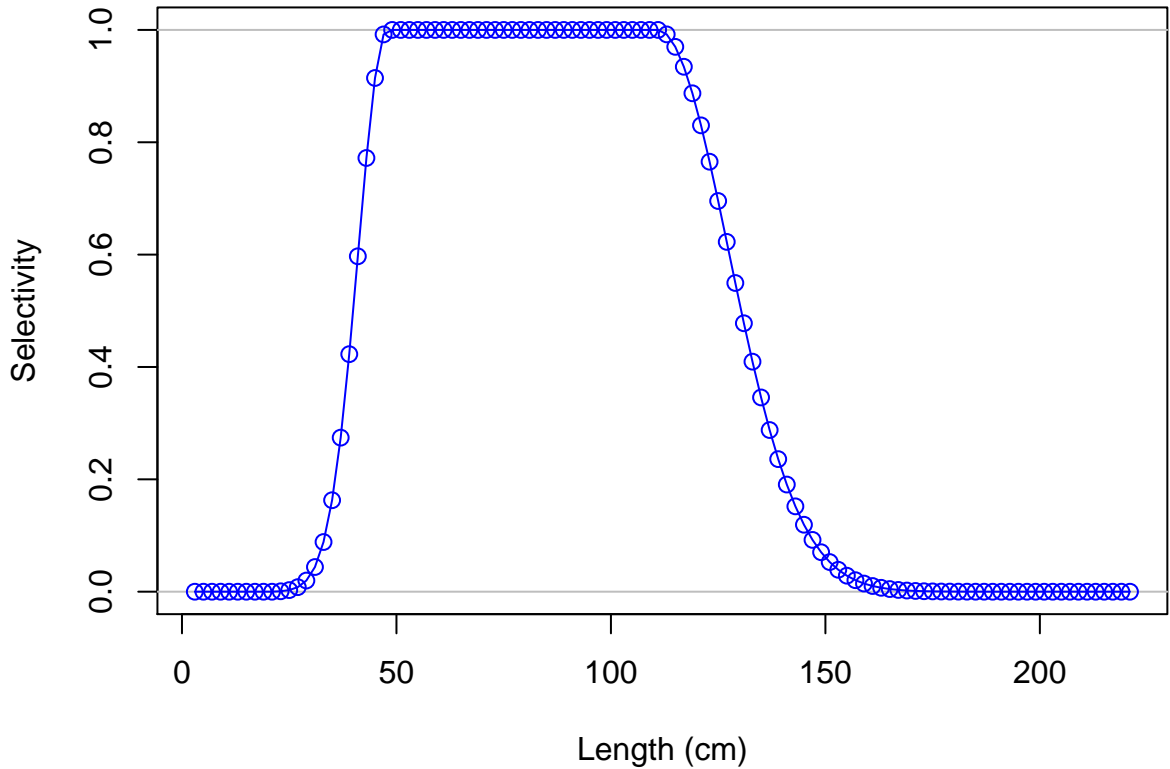
Female ending year selectivity for A2-OBJ



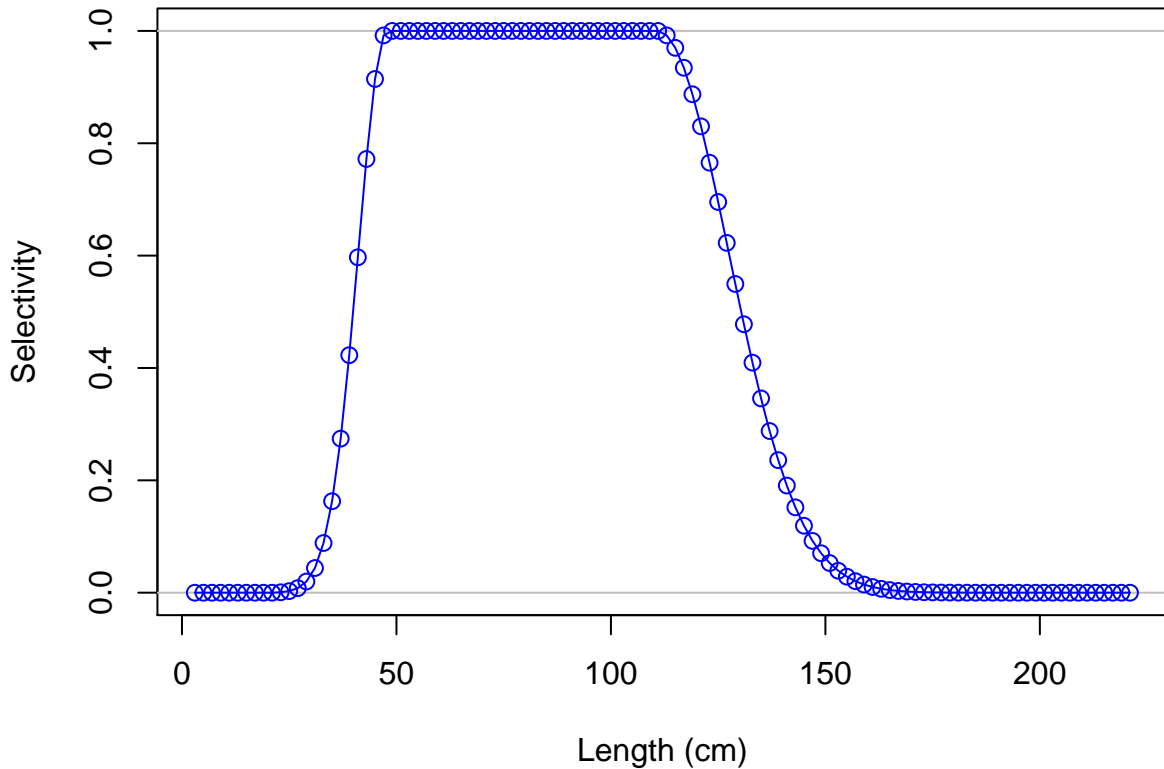
Male ending year selectivity for A2-OBJ



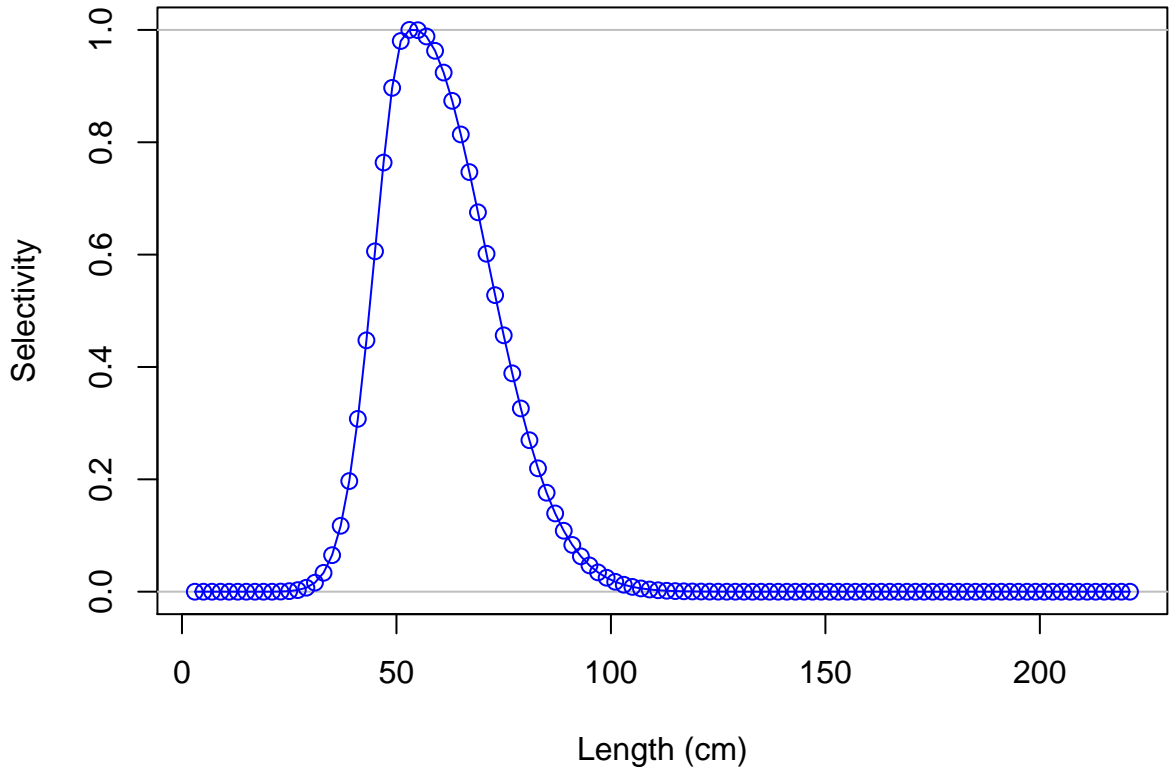
Female ending year selectivity for A3-OBJ



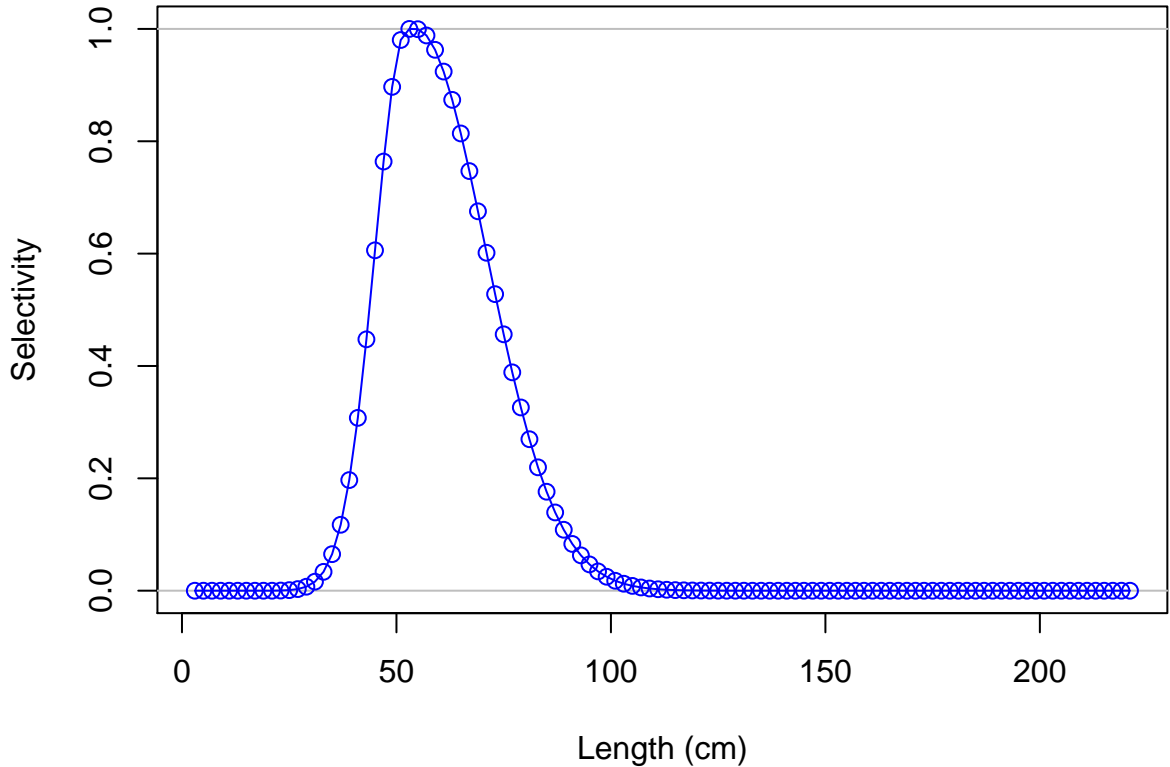
Male ending year selectivity for A3-OBJ



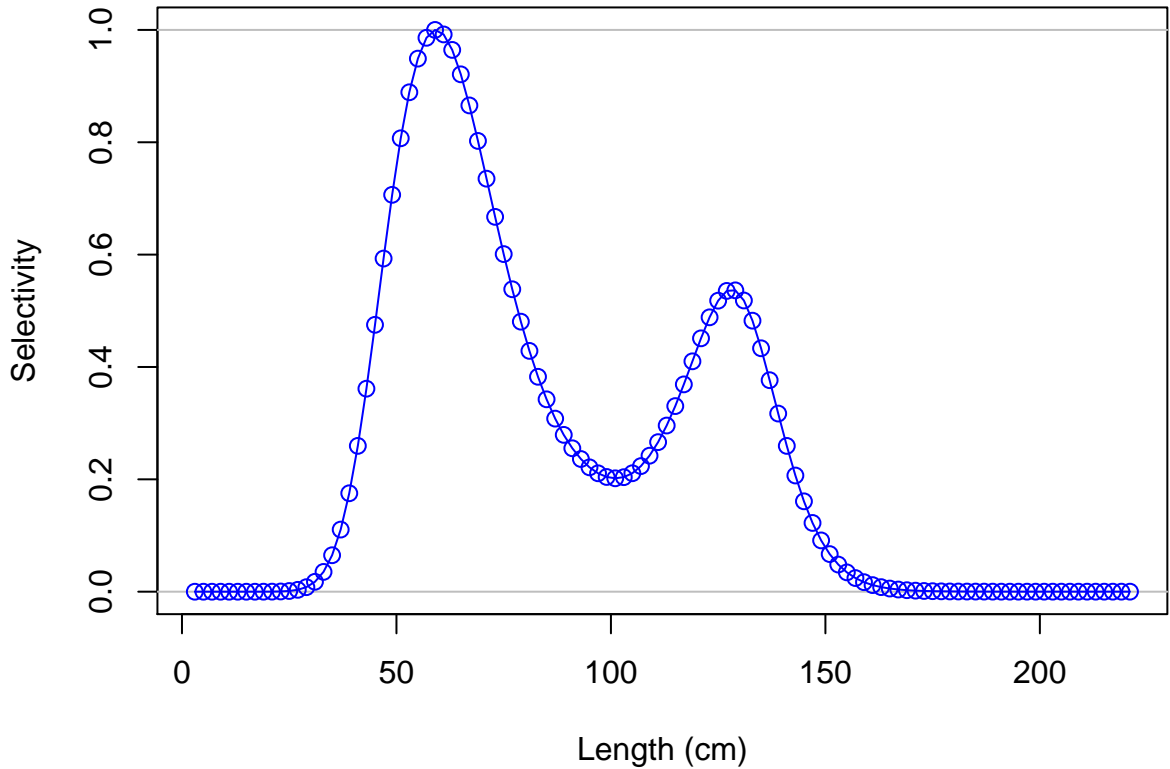
Female ending year selectivity for A4-OBJ



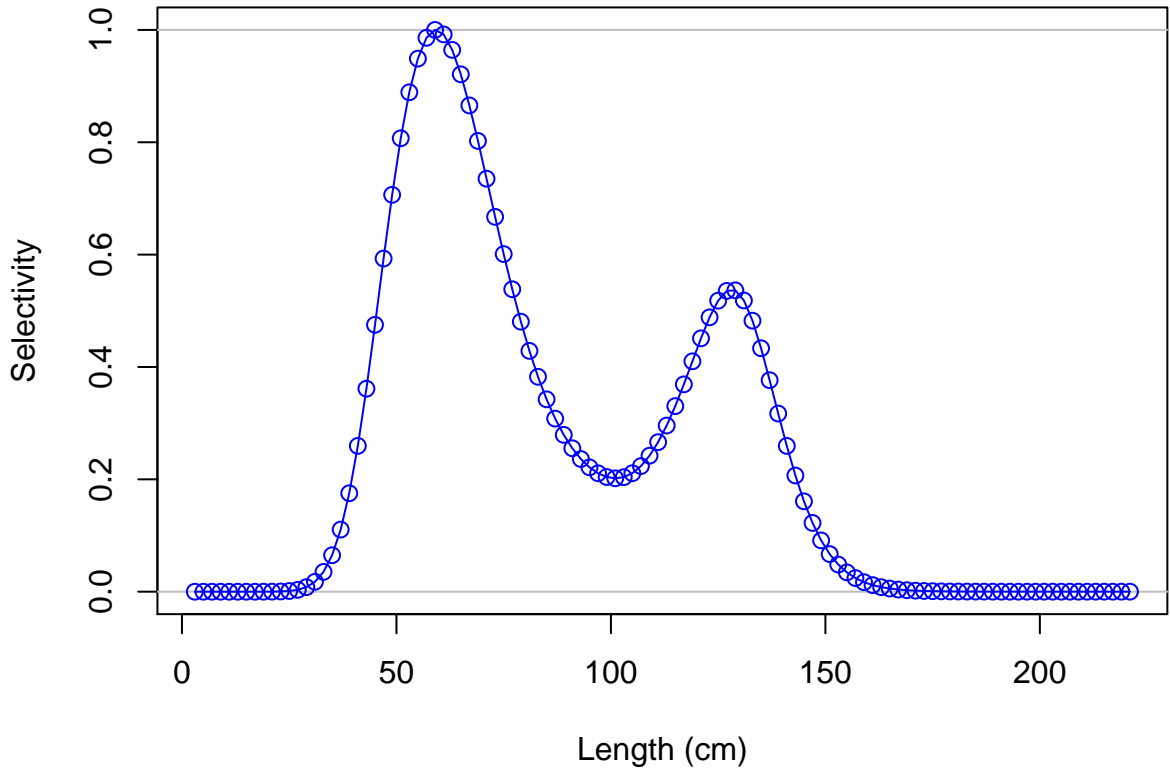
Male ending year selectivity for A4-OBJ



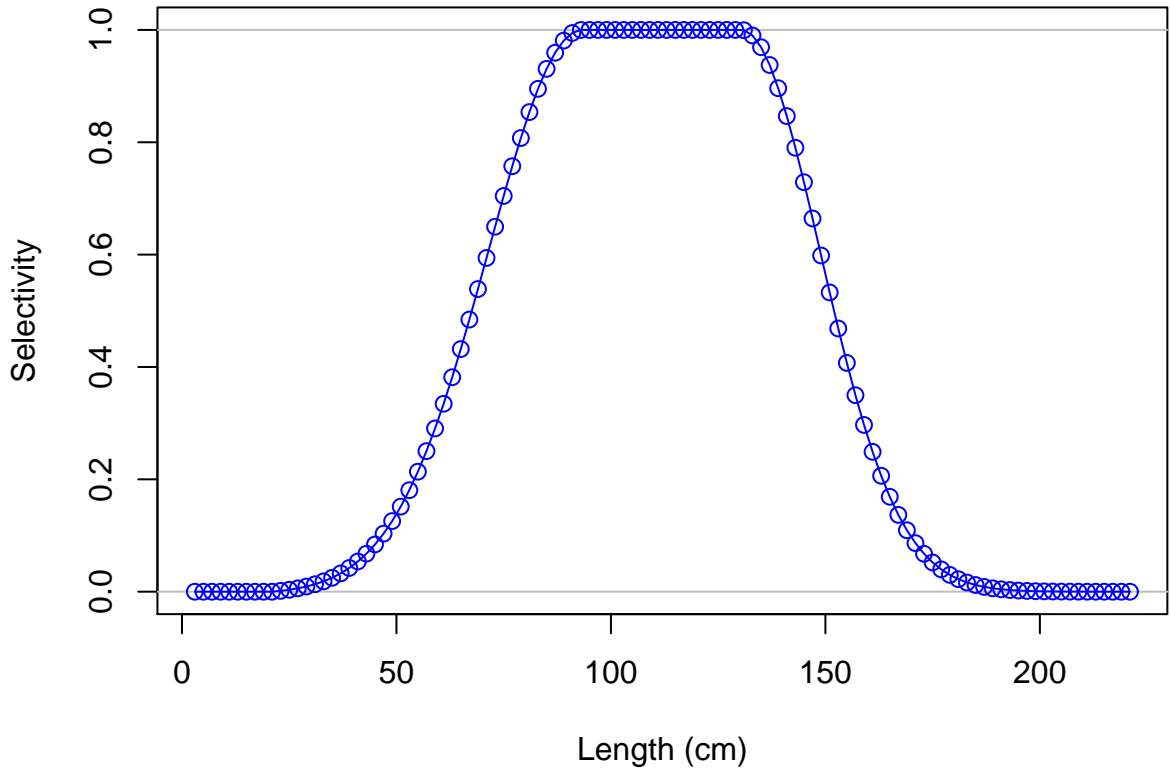
Female ending year selectivity for A5-OBJ



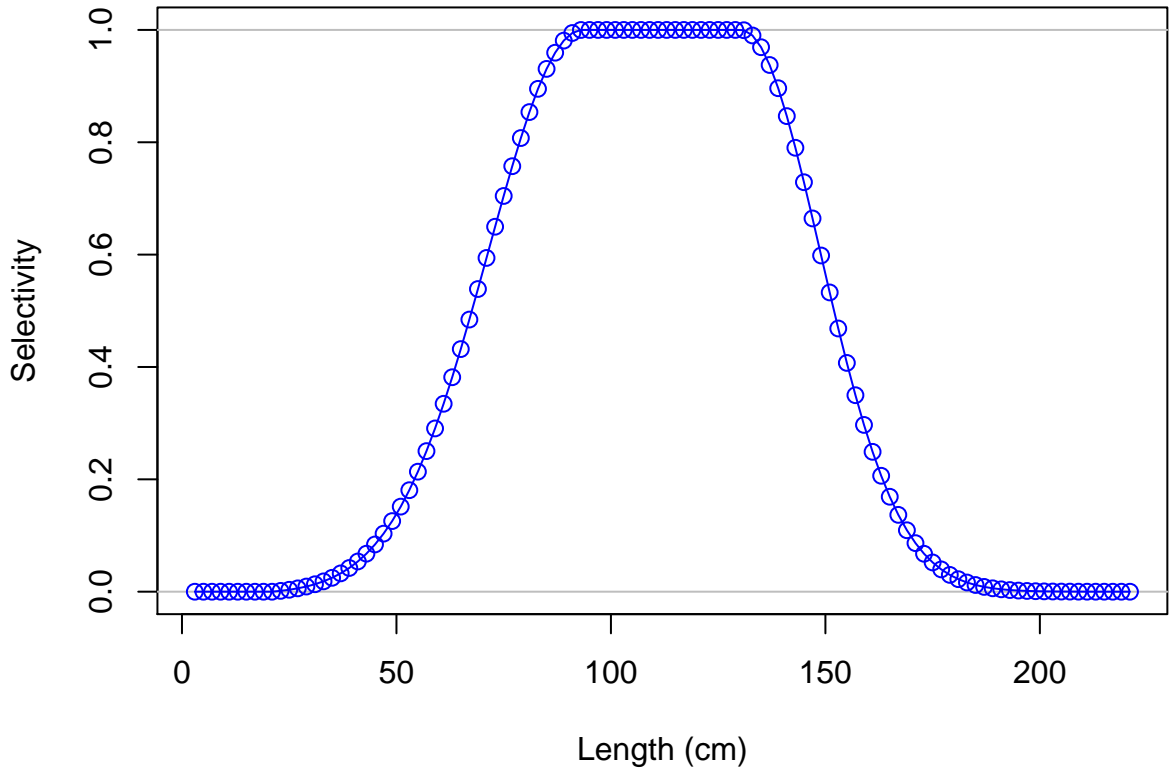
Male ending year selectivity for A5-OBJ



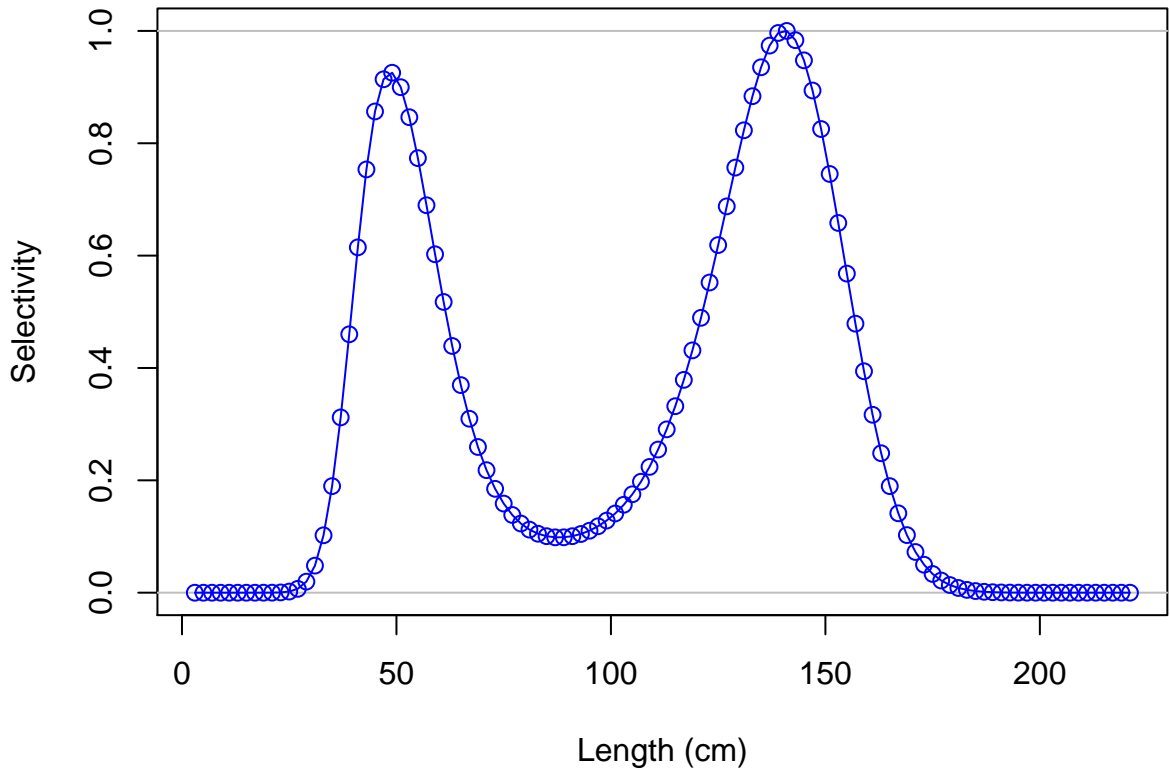
Female ending year selectivity for A6-OBJ



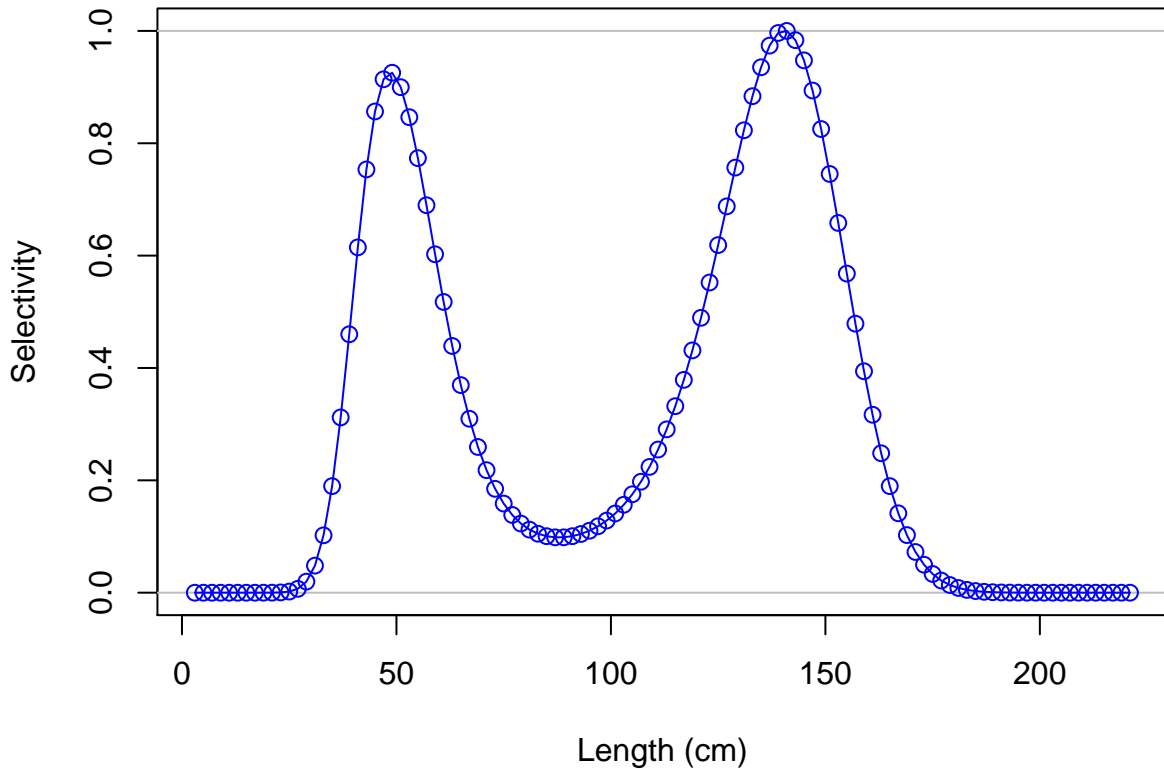
Male ending year selectivity for A6-OBJ



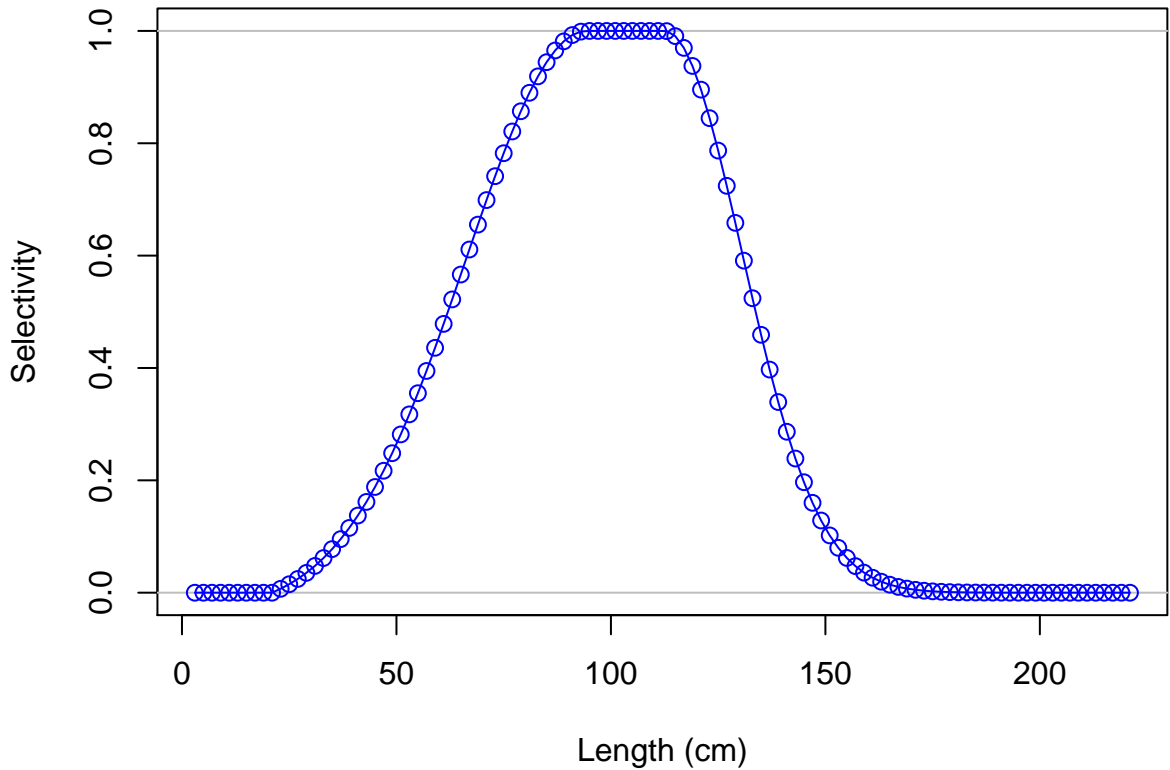
Female ending year selectivity for A2-NOADEL



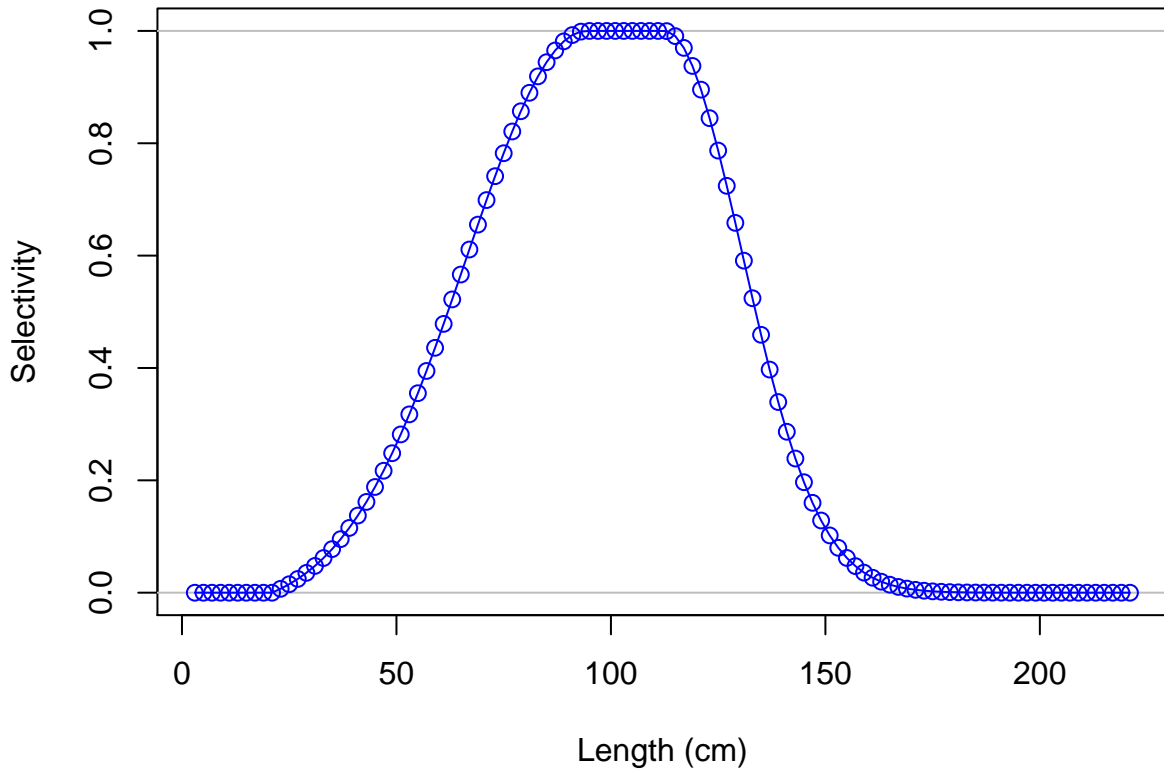
Male ending year selectivity for A2-NOADEL



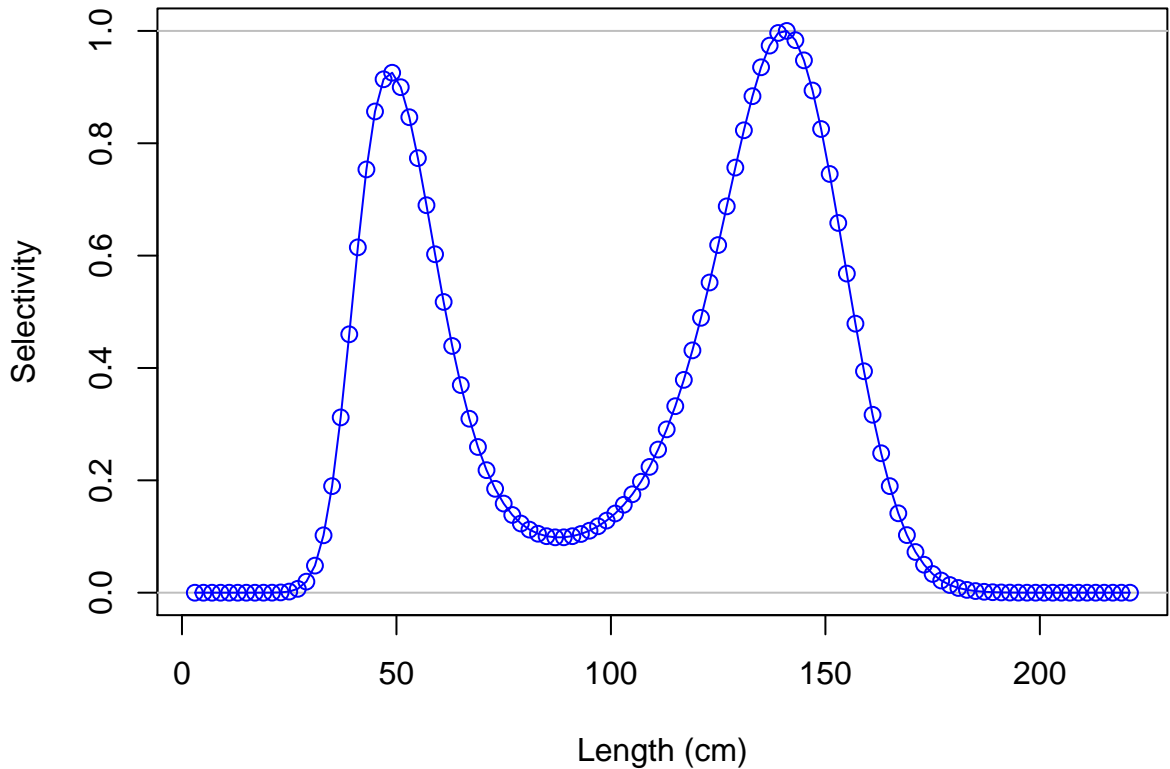
Female ending year selectivity for A3-NOADEL



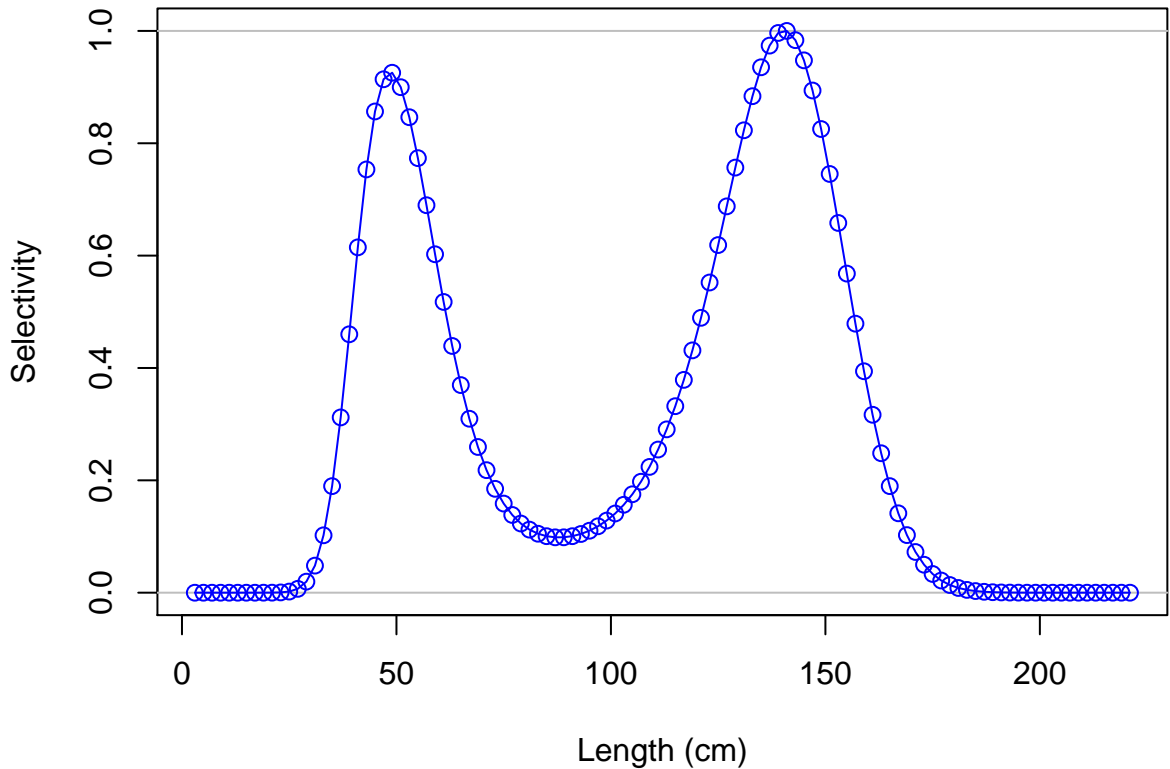
Male ending year selectivity for A3-NOADEL



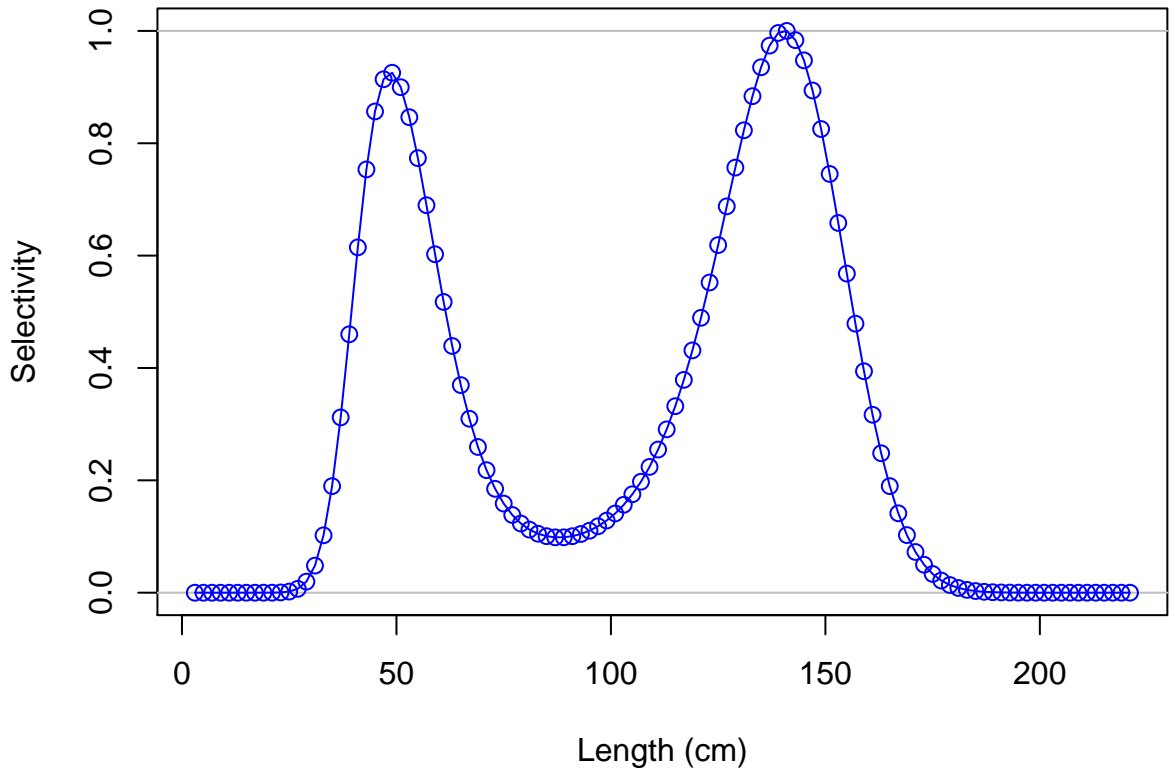
Female ending year selectivity for A4-NOADEL



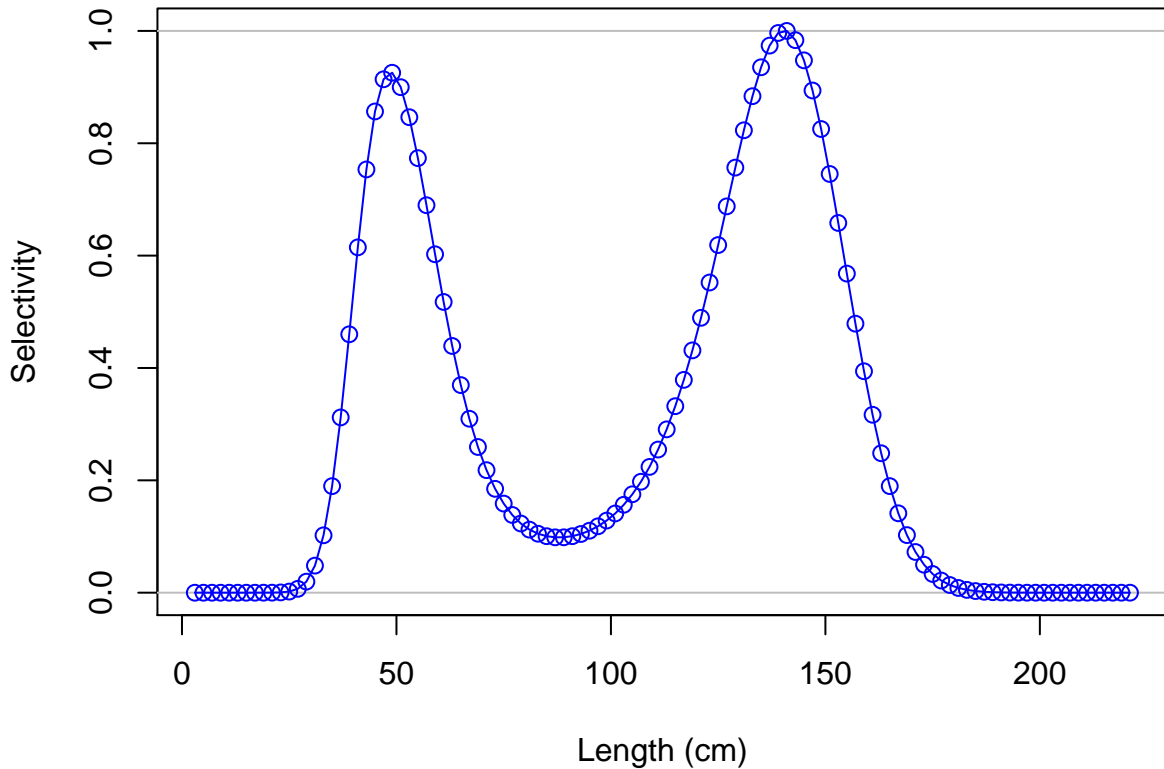
Male ending year selectivity for A4-NOADEL



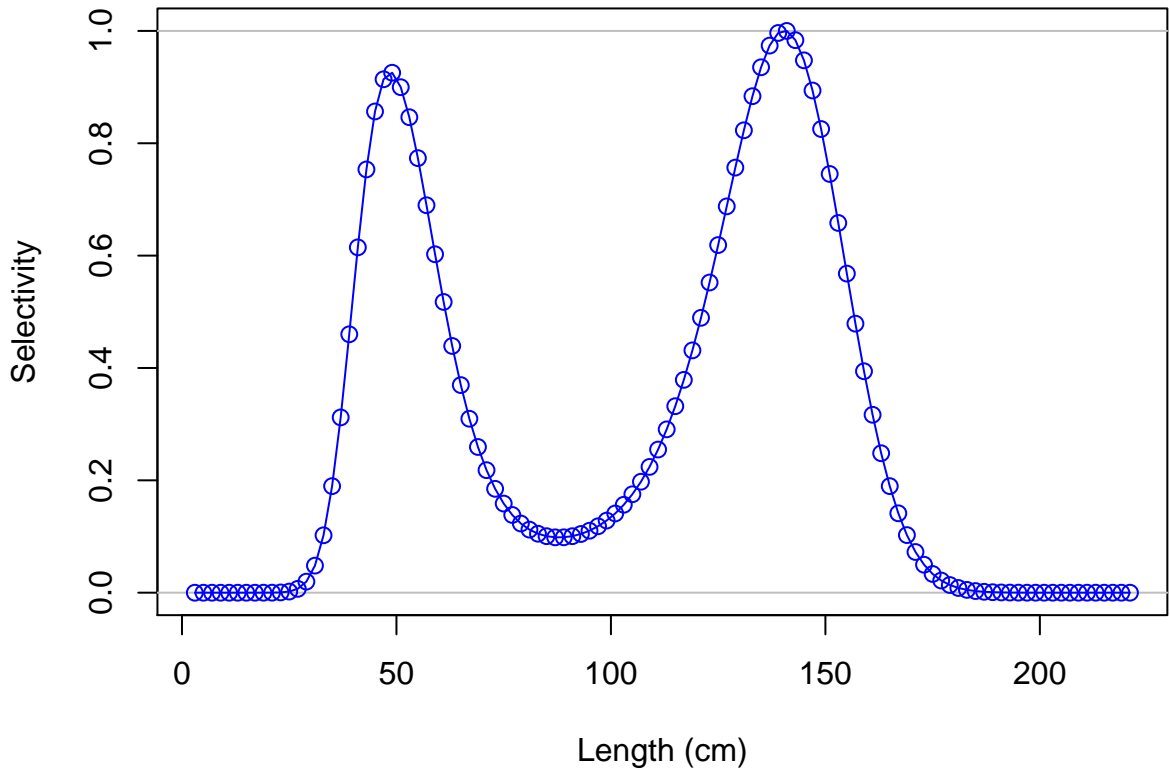
Female ending year selectivity for A5-NOADEL



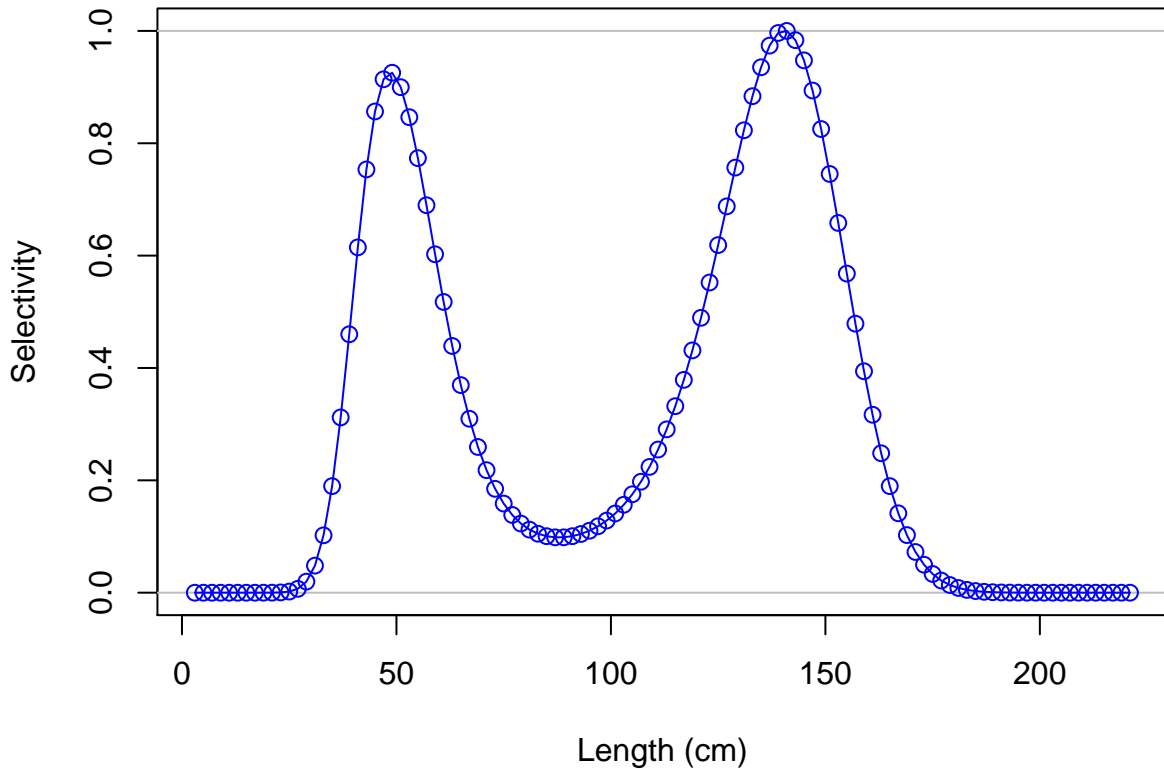
Male ending year selectivity for A5-NOADEL



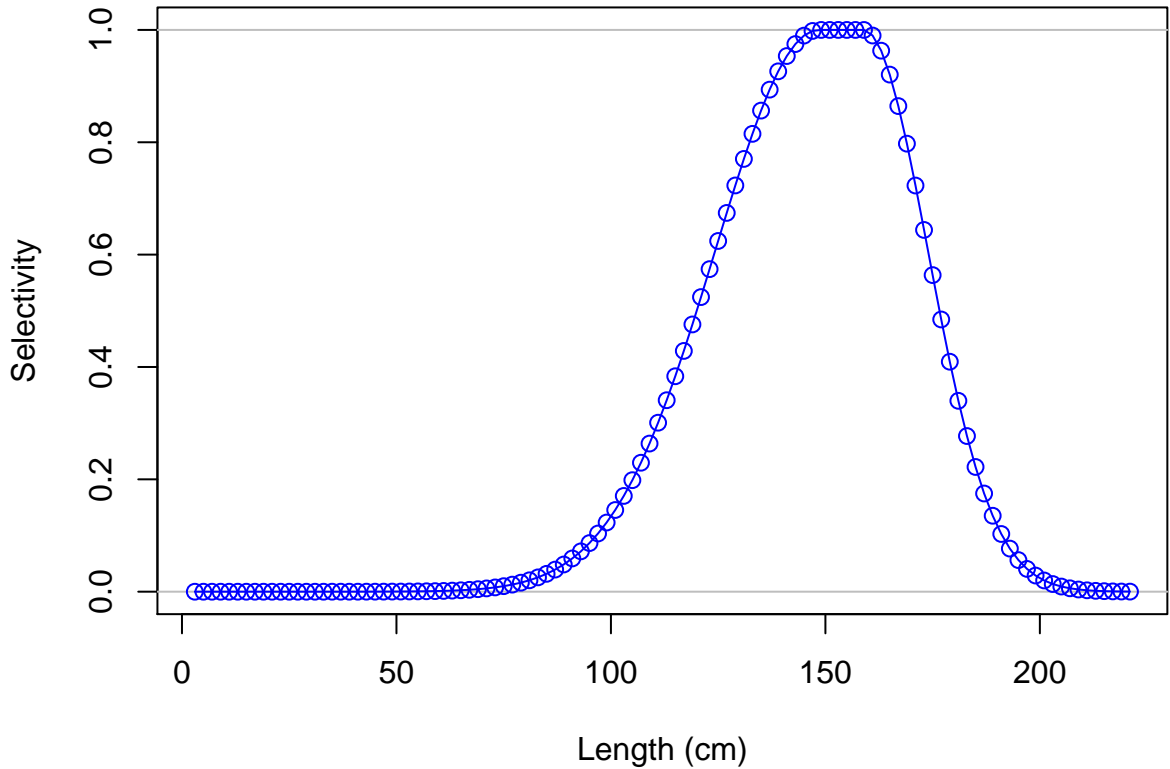
Female ending year selectivity for A6-NOADEL



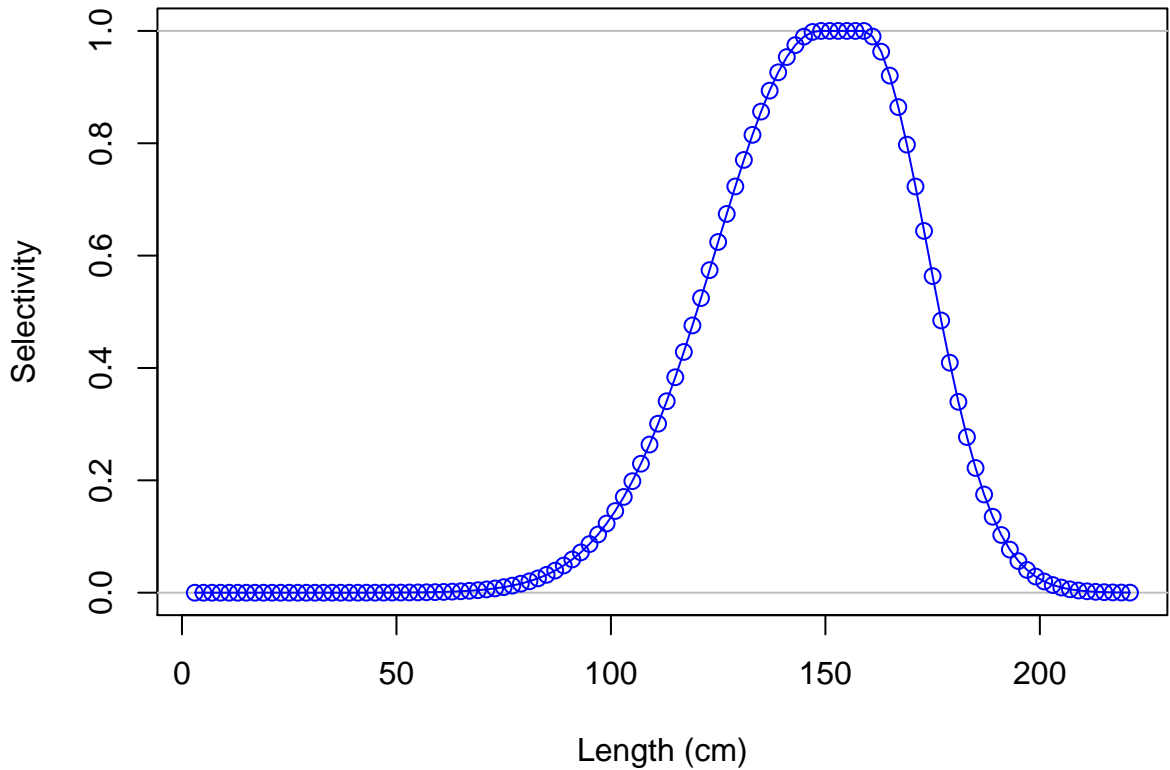
Male ending year selectivity for A6-NOADEL



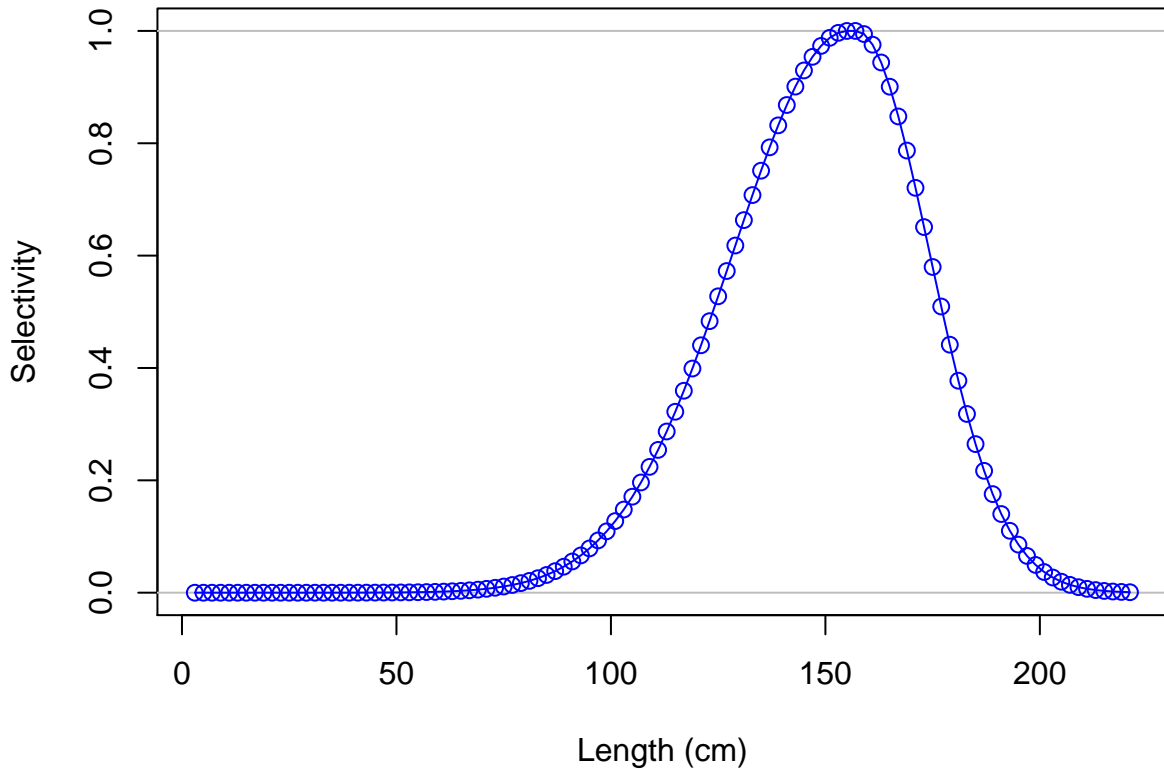
Female ending year selectivity for EPO-LL-survey-early



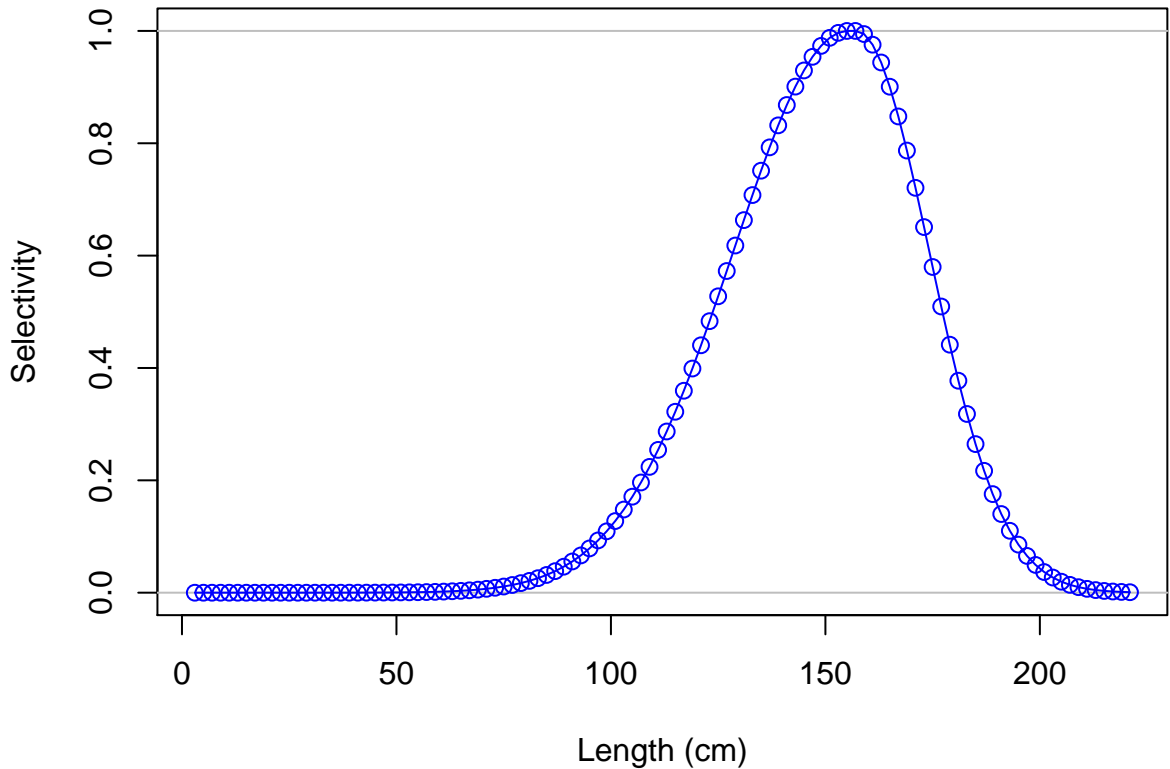
Male ending year selectivity for EPO-LL-survey-early



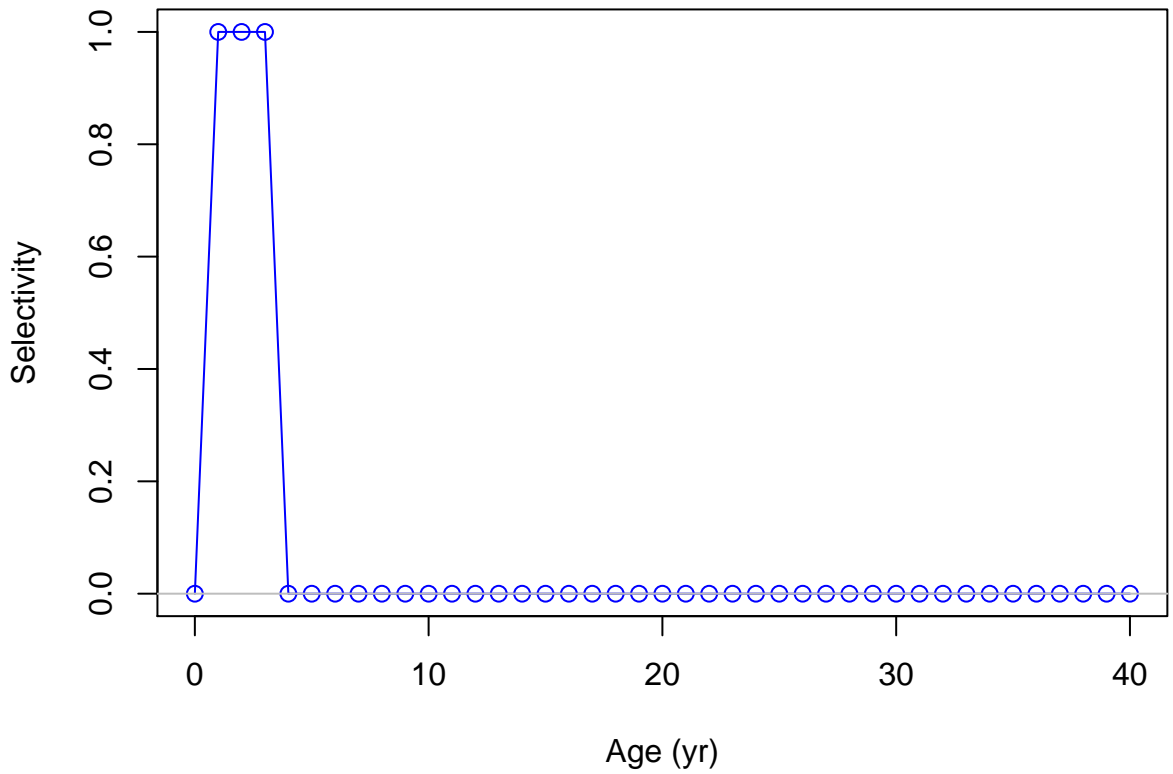
Female ending year selectivity for EPO-LL-survey-late



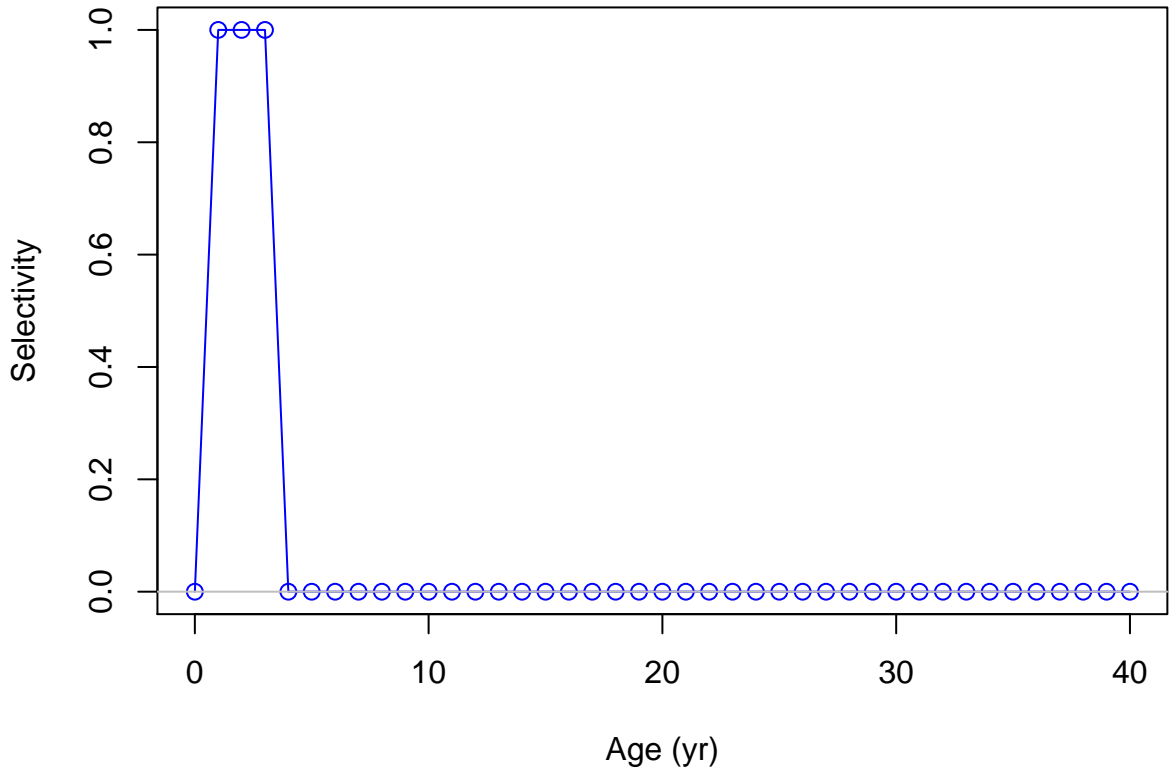
Male ending year selectivity for EPO-LL-survey-late



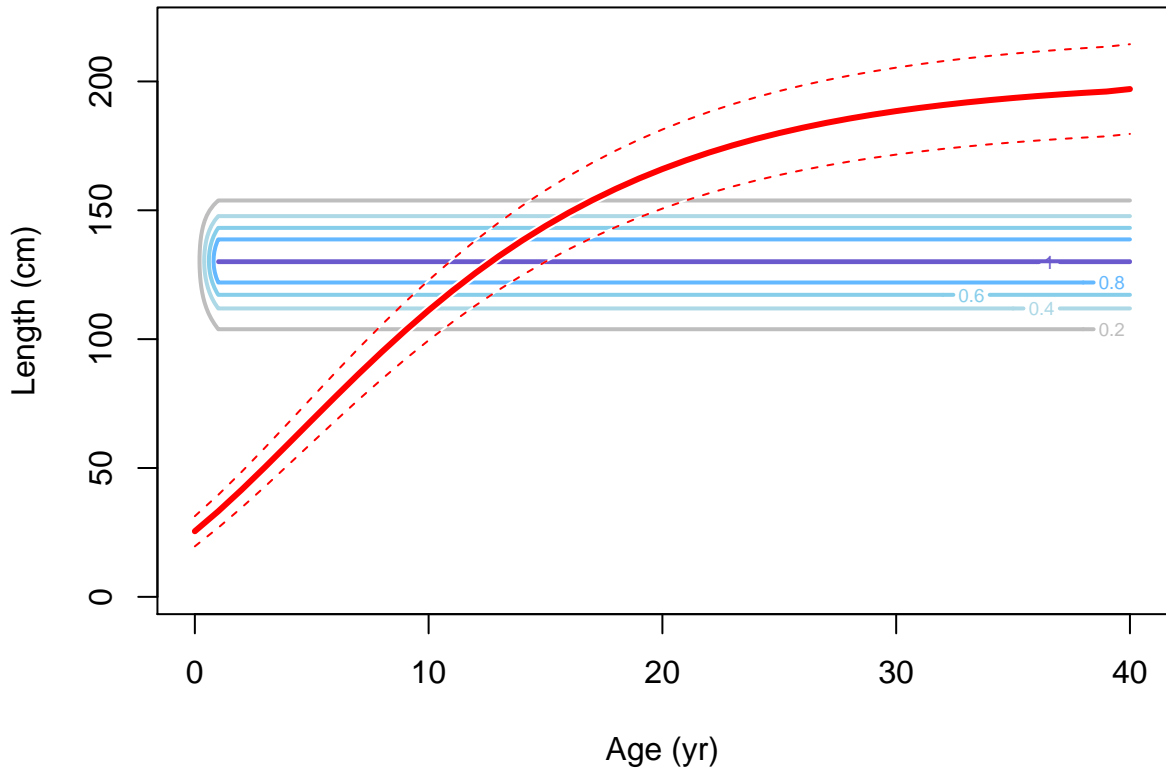
Female ending year selectivity for EPO-OBJ-Disc



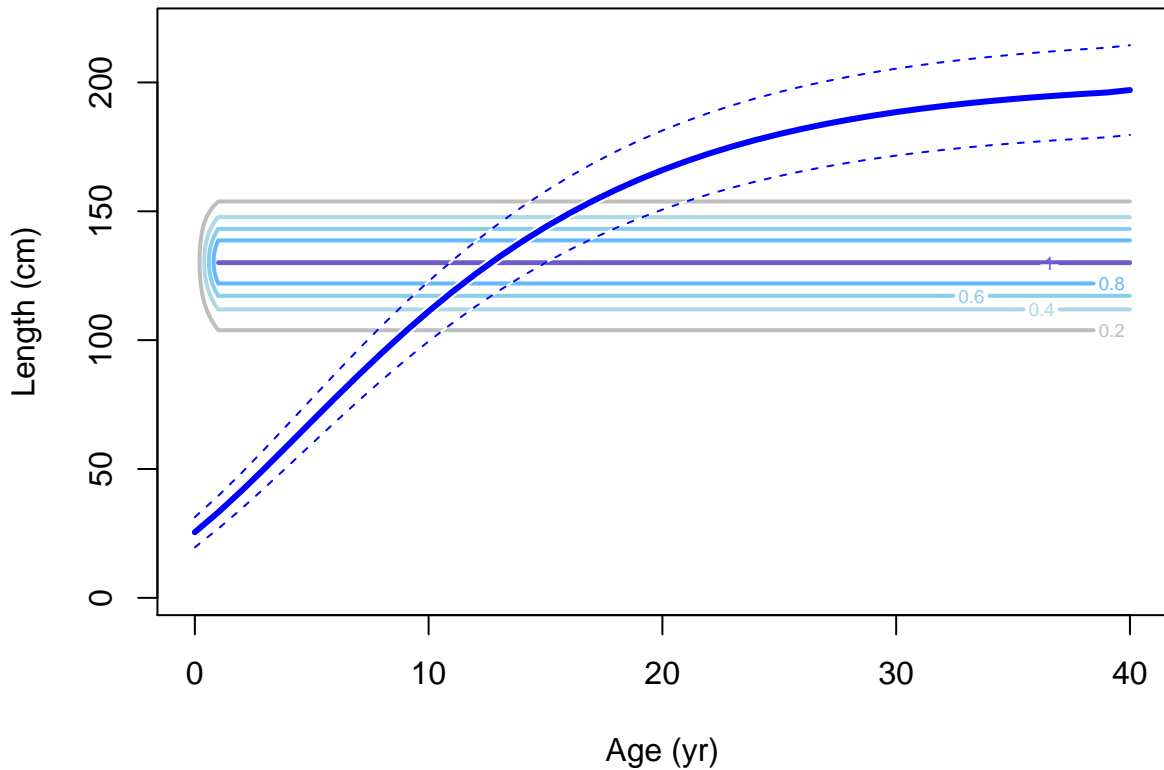
Male ending year selectivity for EPO-OBJ-Disc



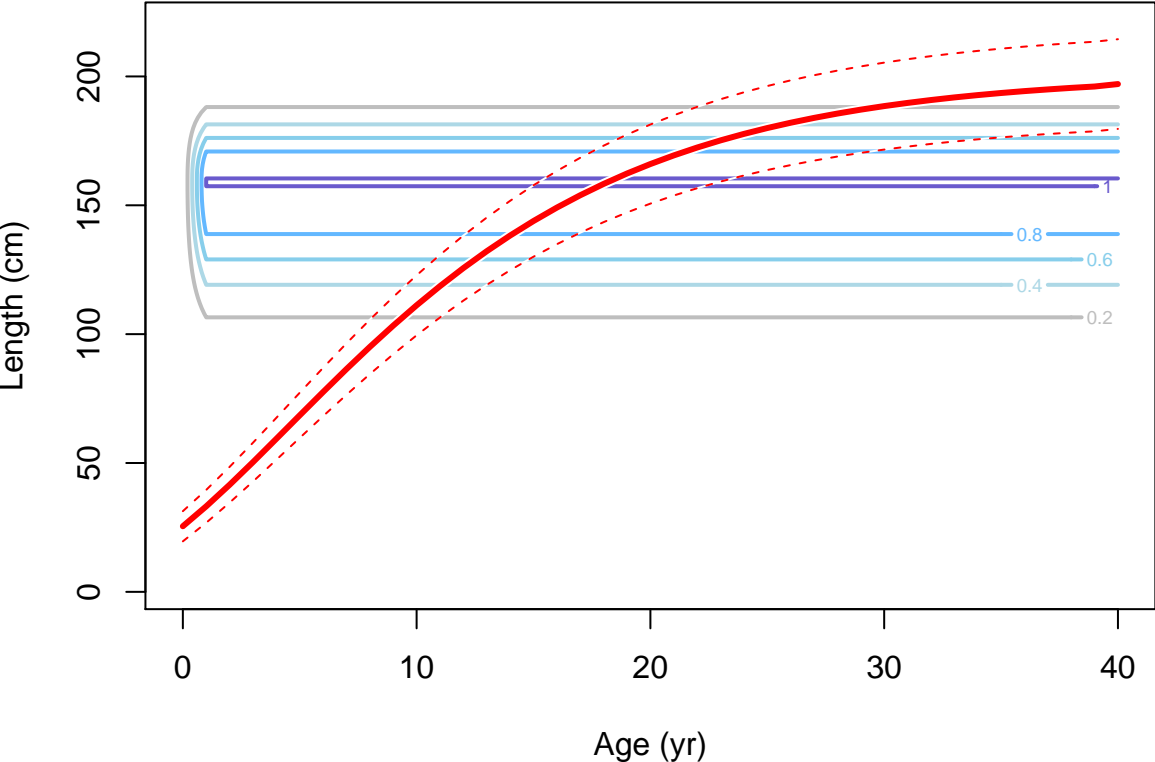
Female ending year selectivity and growth for A1-LL-n



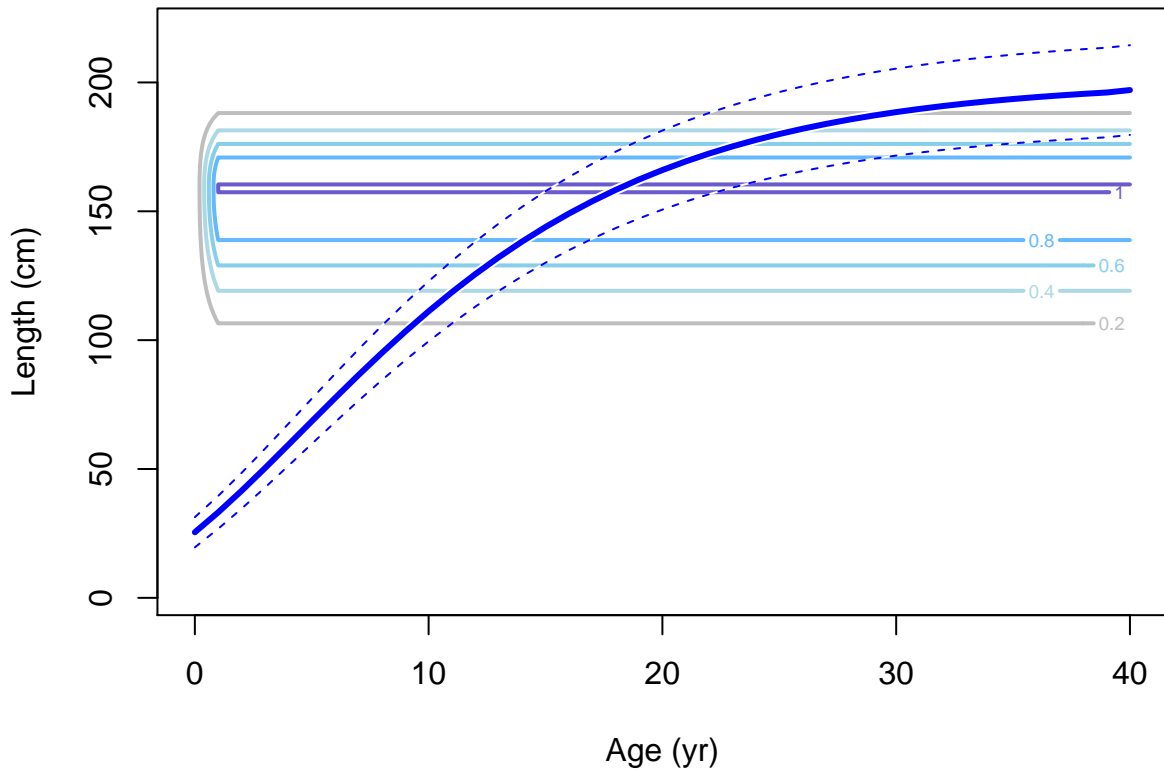
Male ending year selectivity and growth for A1-LL-n



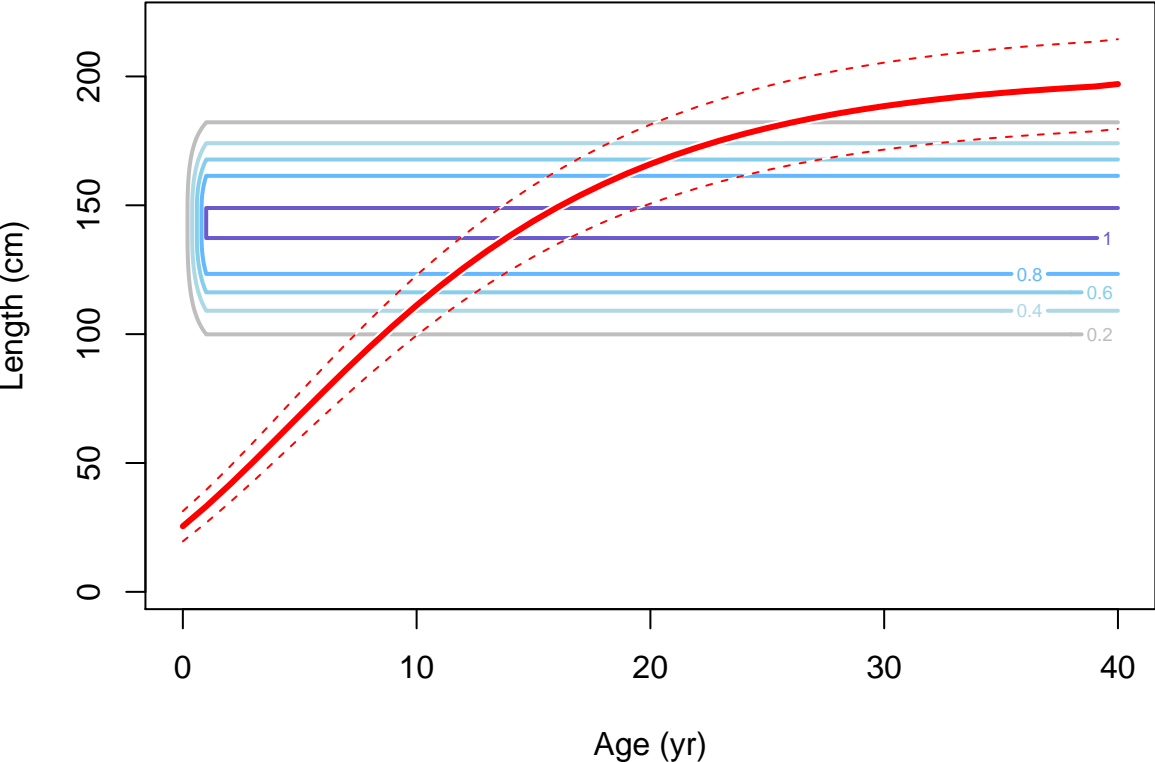
Female ending year selectivity and growth for A2-LL-n



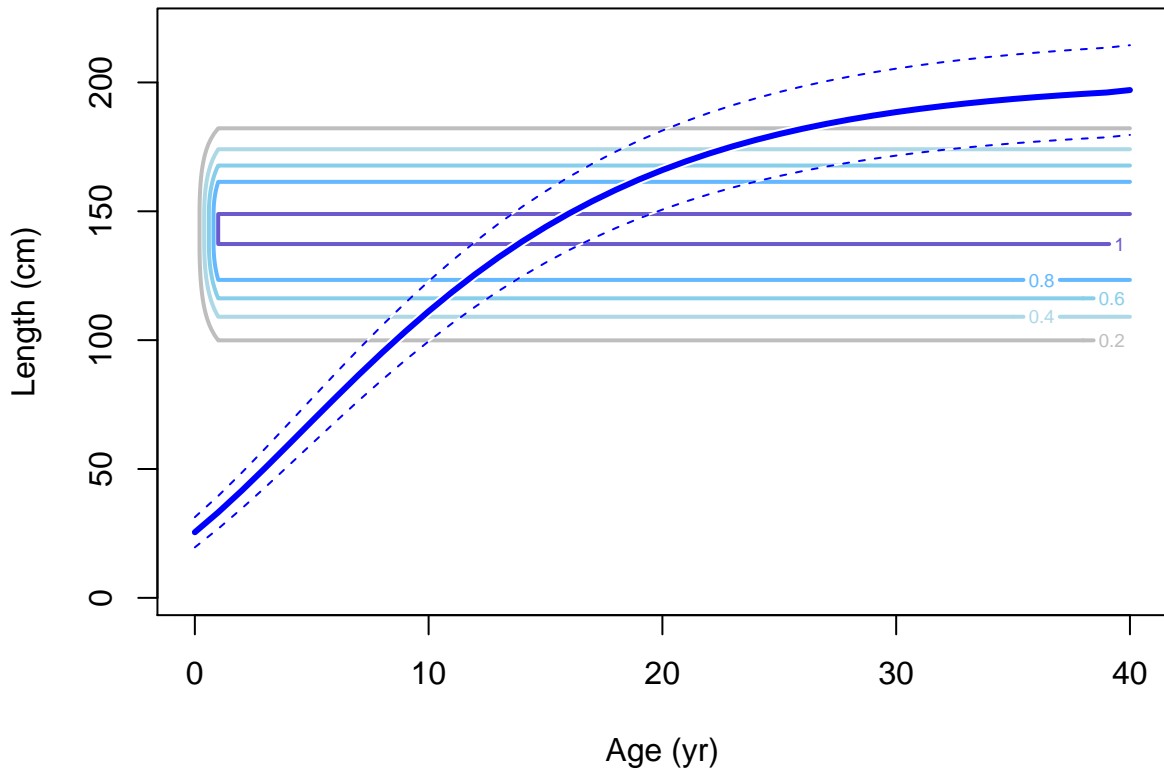
Male ending year selectivity and growth for A2-LL-n



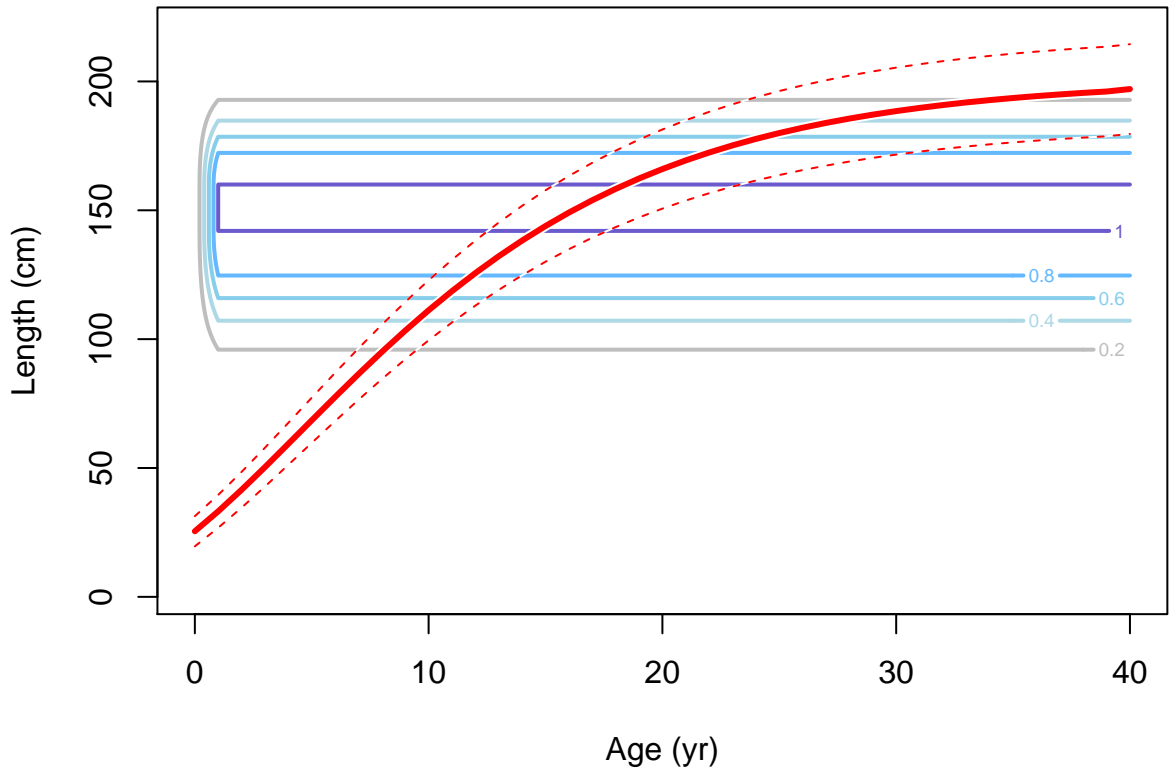
Female ending year selectivity and growth for A3-LL-n



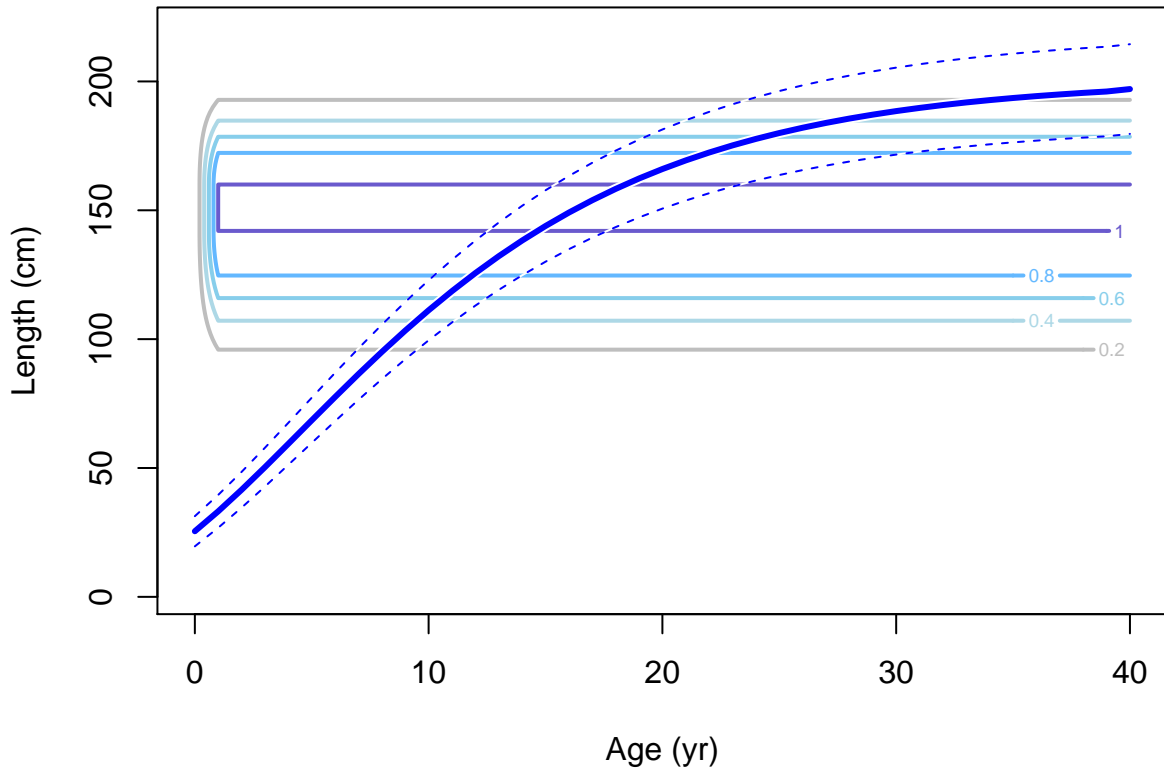
Male ending year selectivity and growth for A3-LL-n



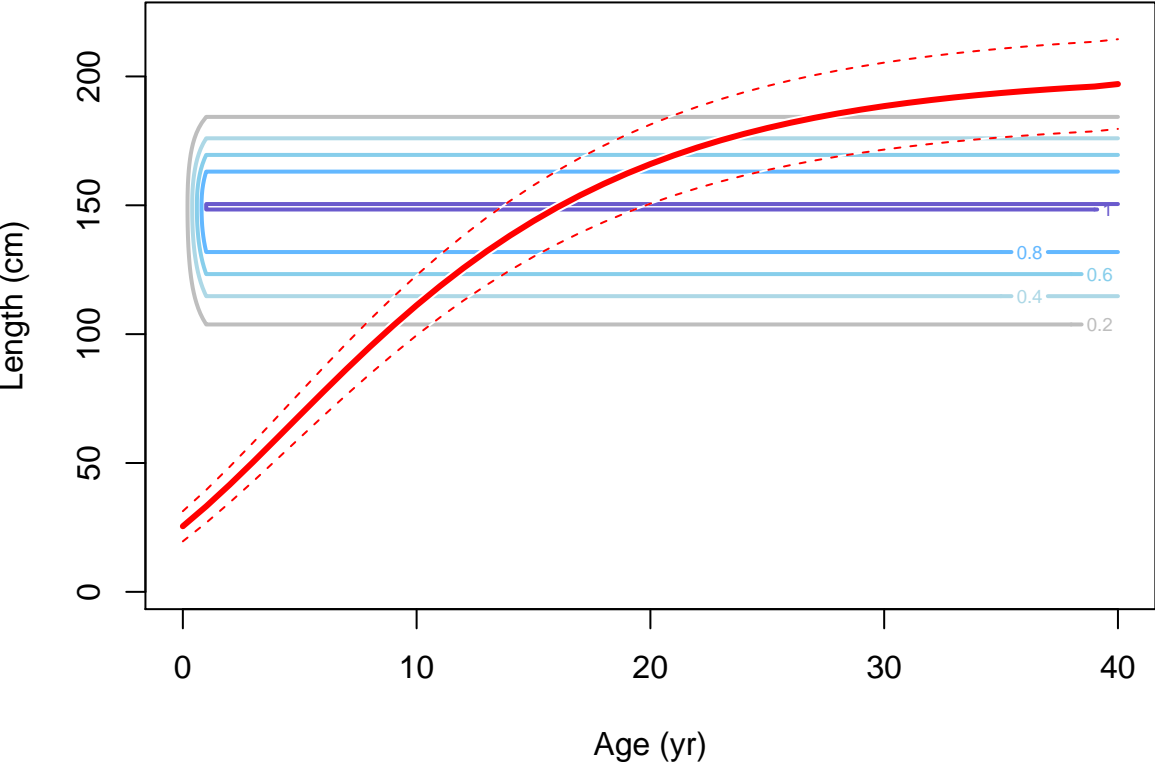
Female ending year selectivity and growth for A4-LL-n



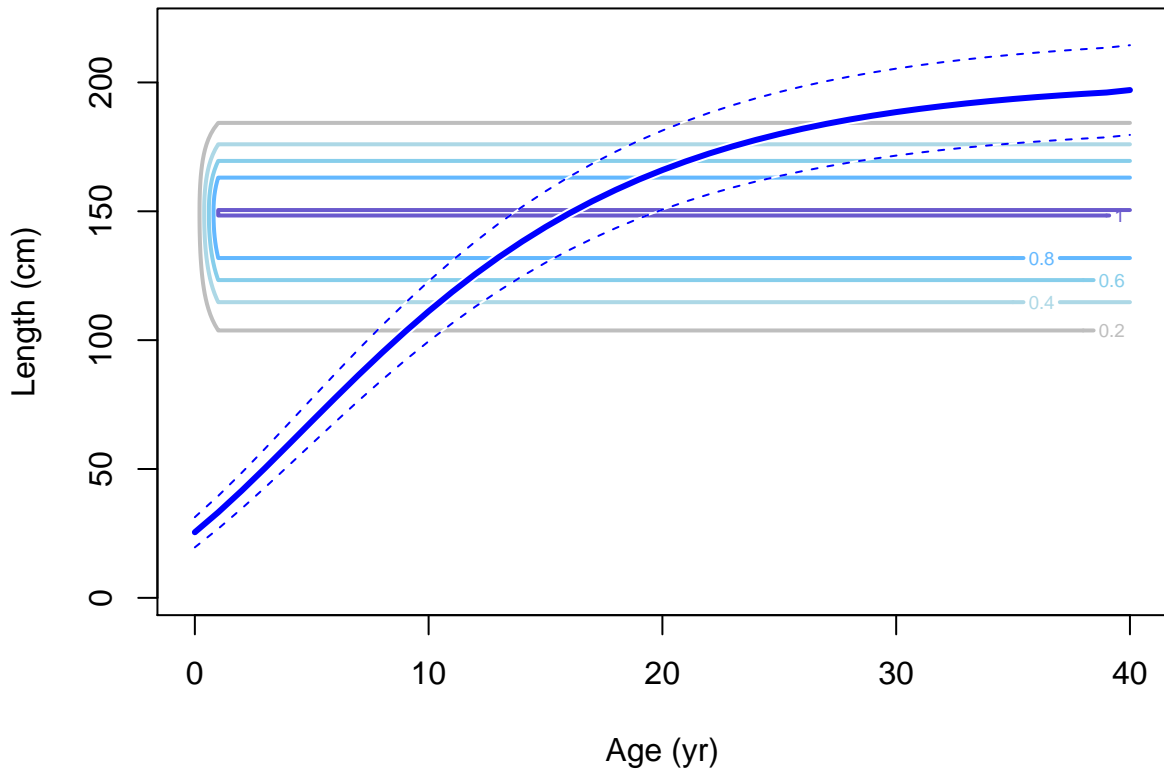
Male ending year selectivity and growth for A4-LL-n



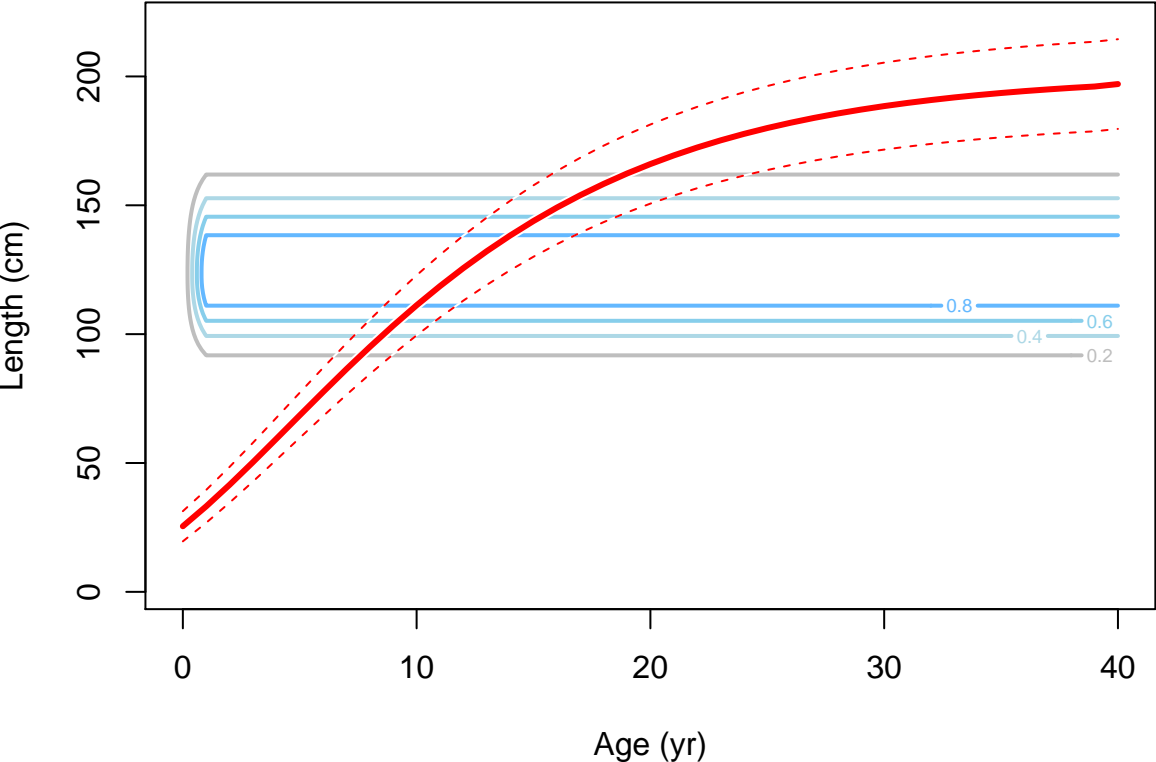
Female ending year selectivity and growth for A5-LL-n



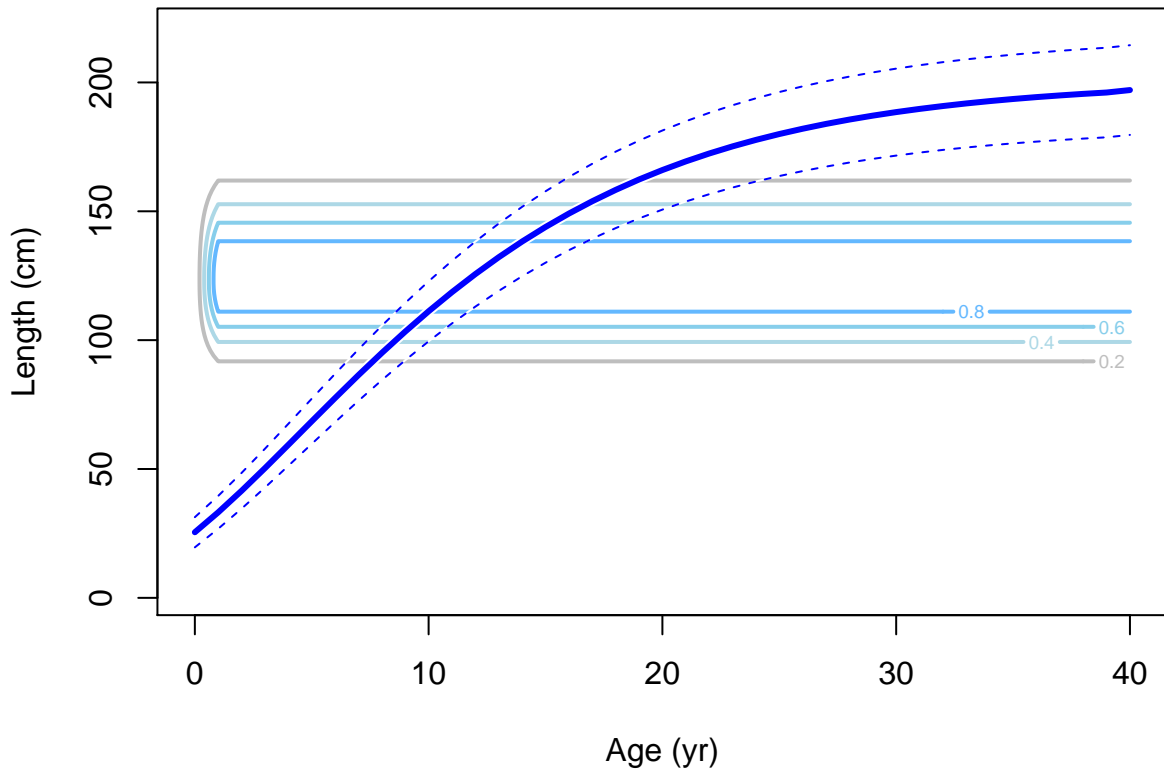
Male ending year selectivity and growth for A5-LL-n



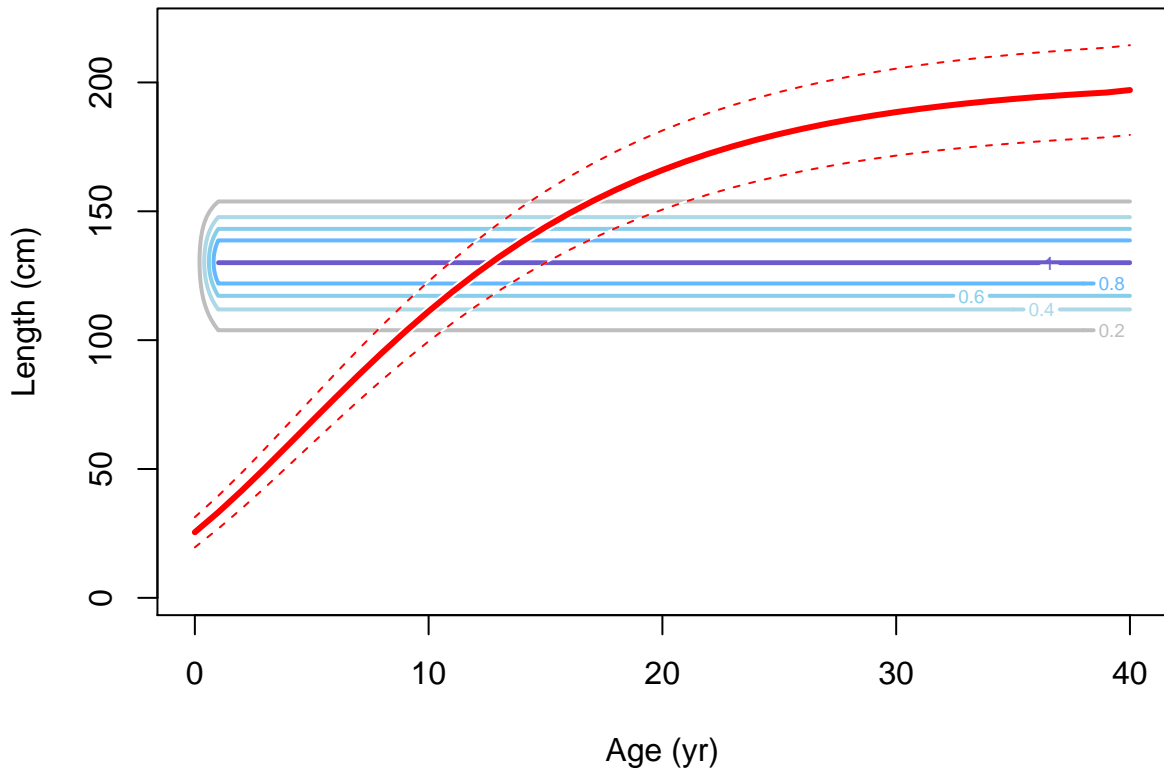
Female ending year selectivity and growth for A6-LL-n



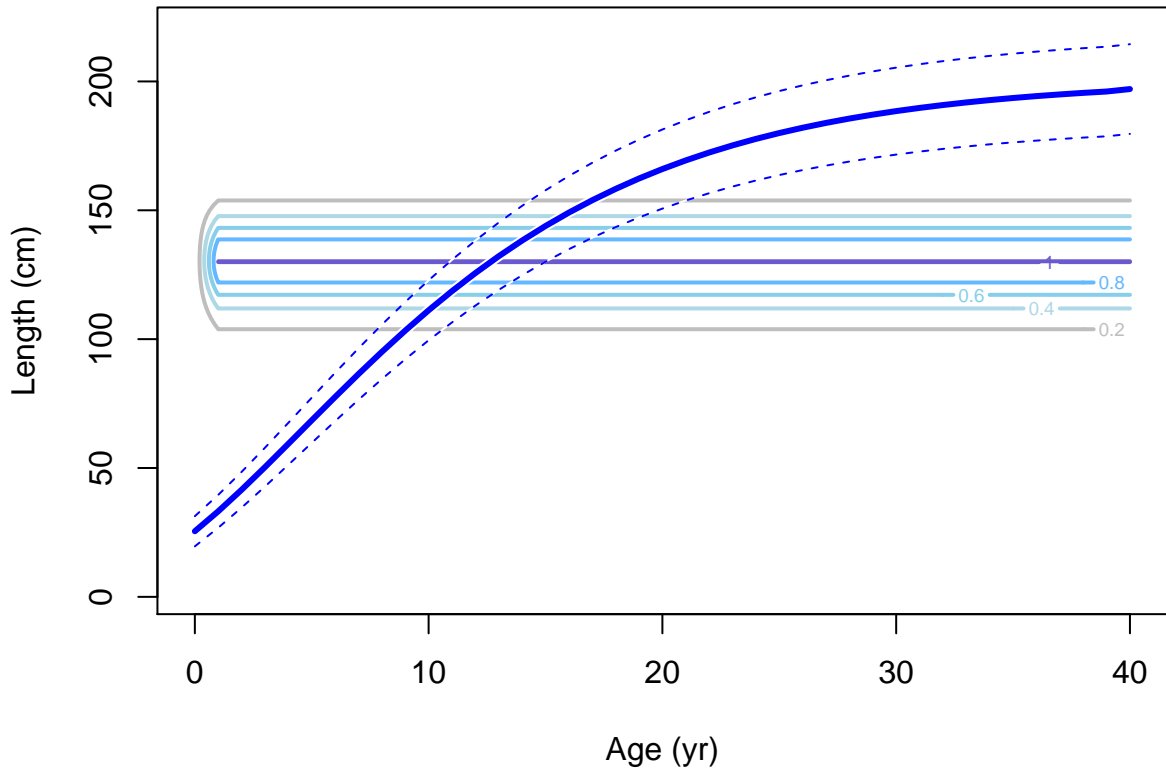
Male ending year selectivity and growth for A6-LL-n



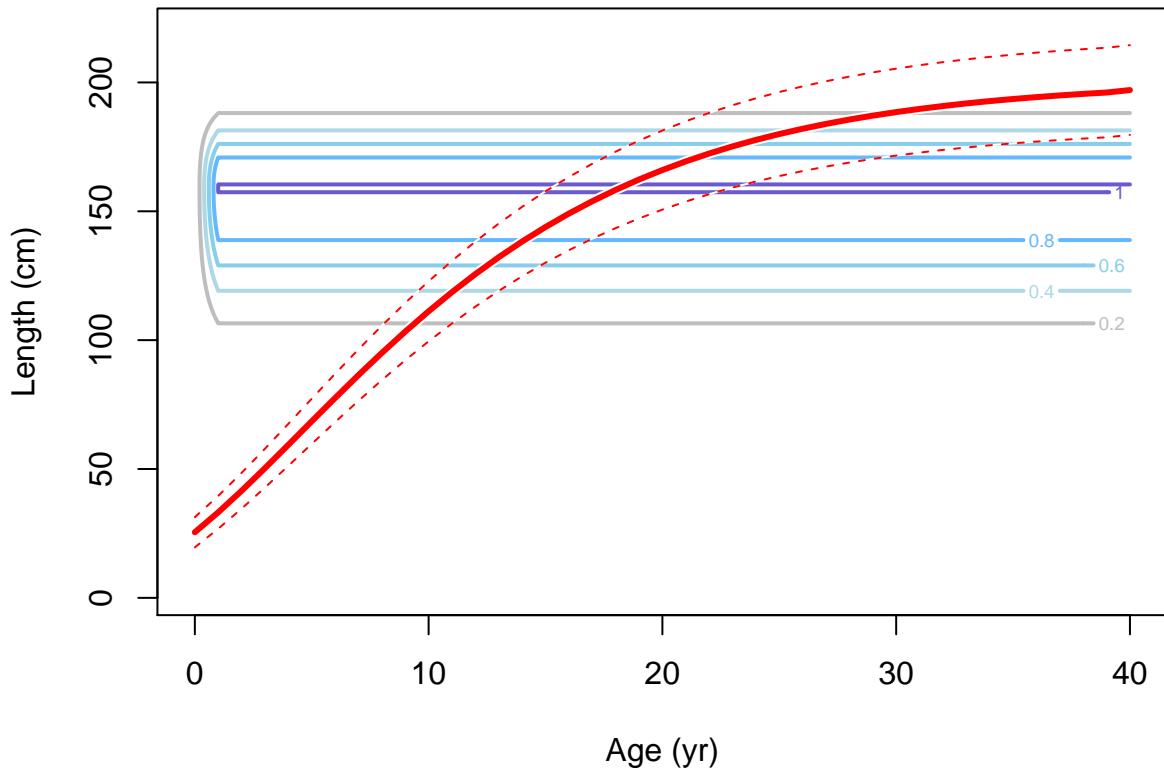
Female ending year selectivity and growth for A1-LL-w



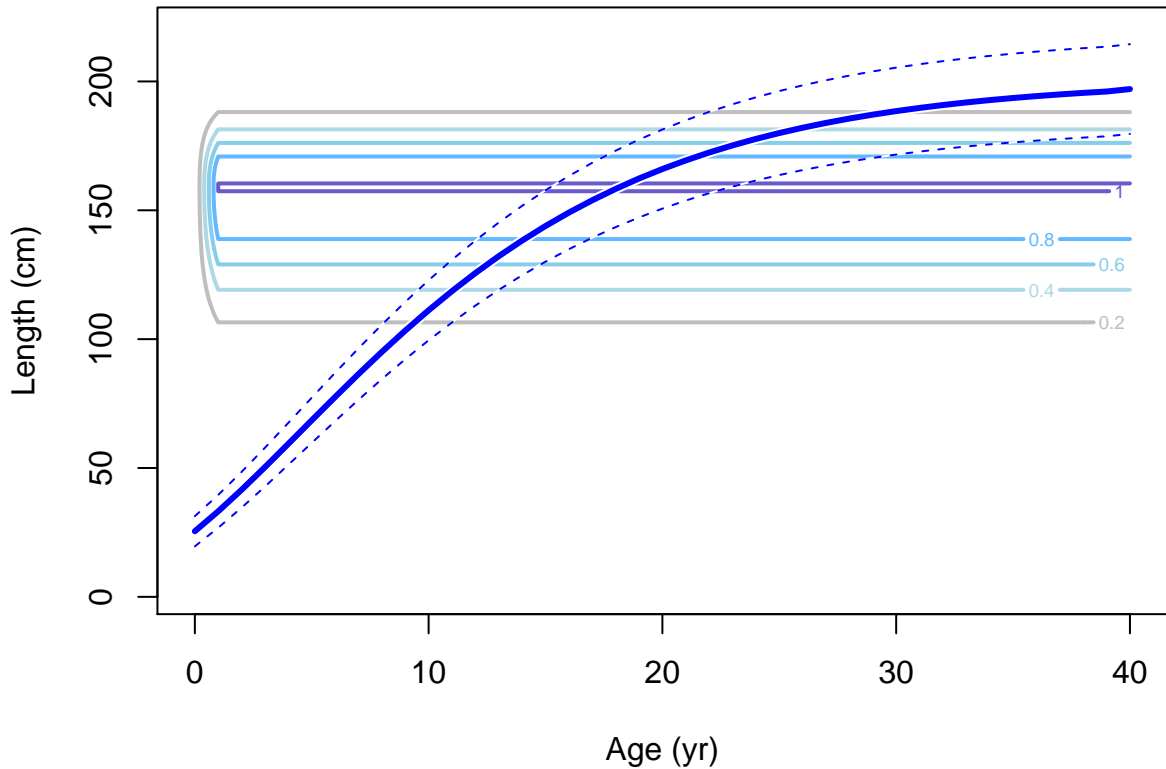
Male ending year selectivity and growth for A1-LL-w



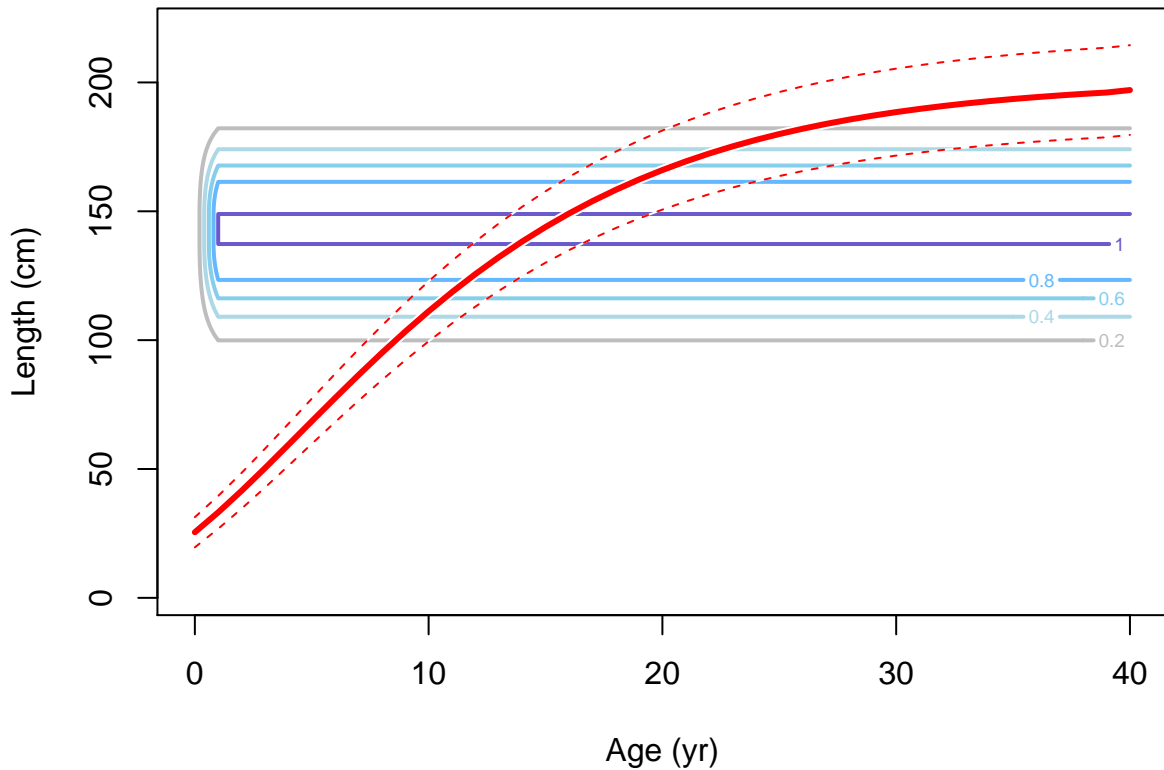
Female ending year selectivity and growth for A2-LL-w



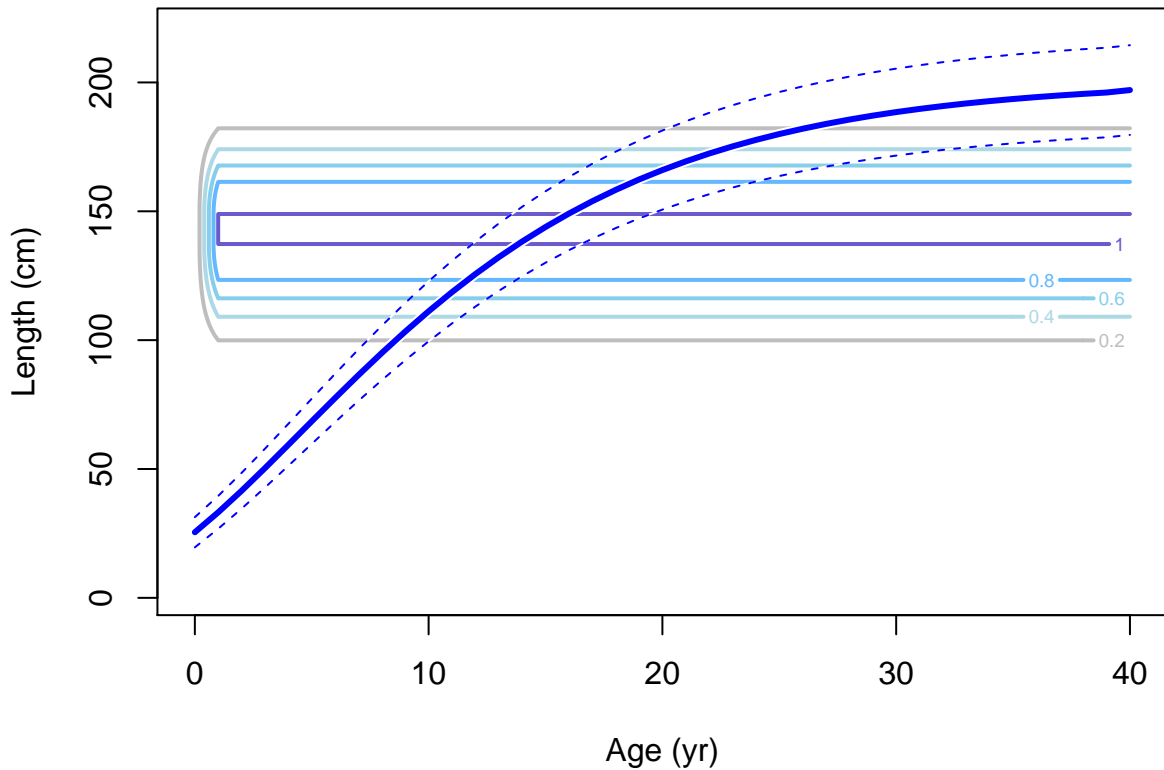
Male ending year selectivity and growth for A2-LL-w



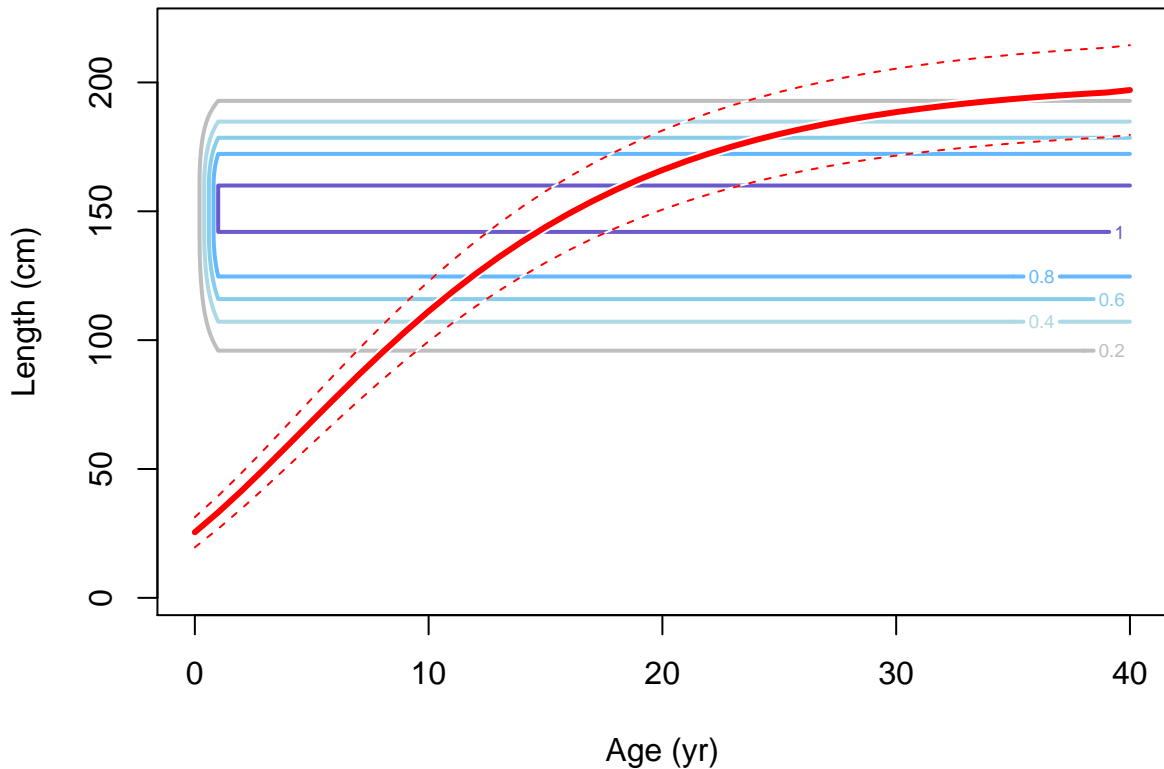
Female ending year selectivity and growth for A3-LL-w



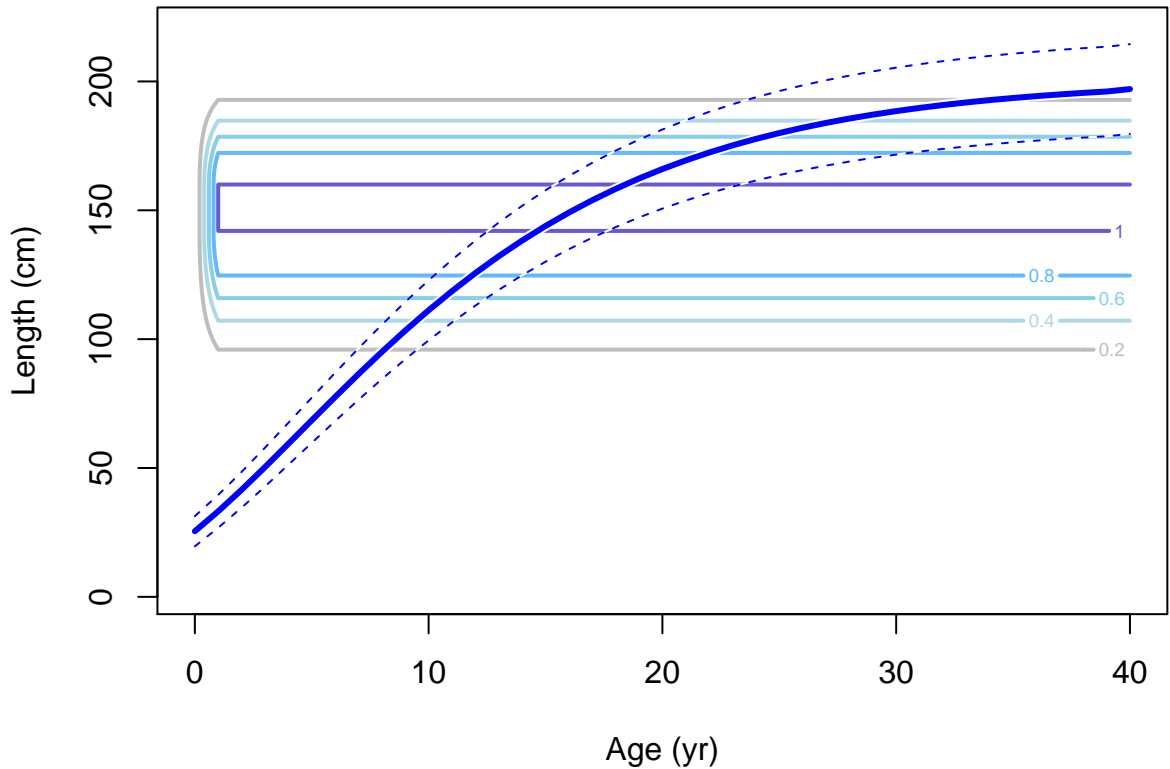
Male ending year selectivity and growth for A3-LL-w



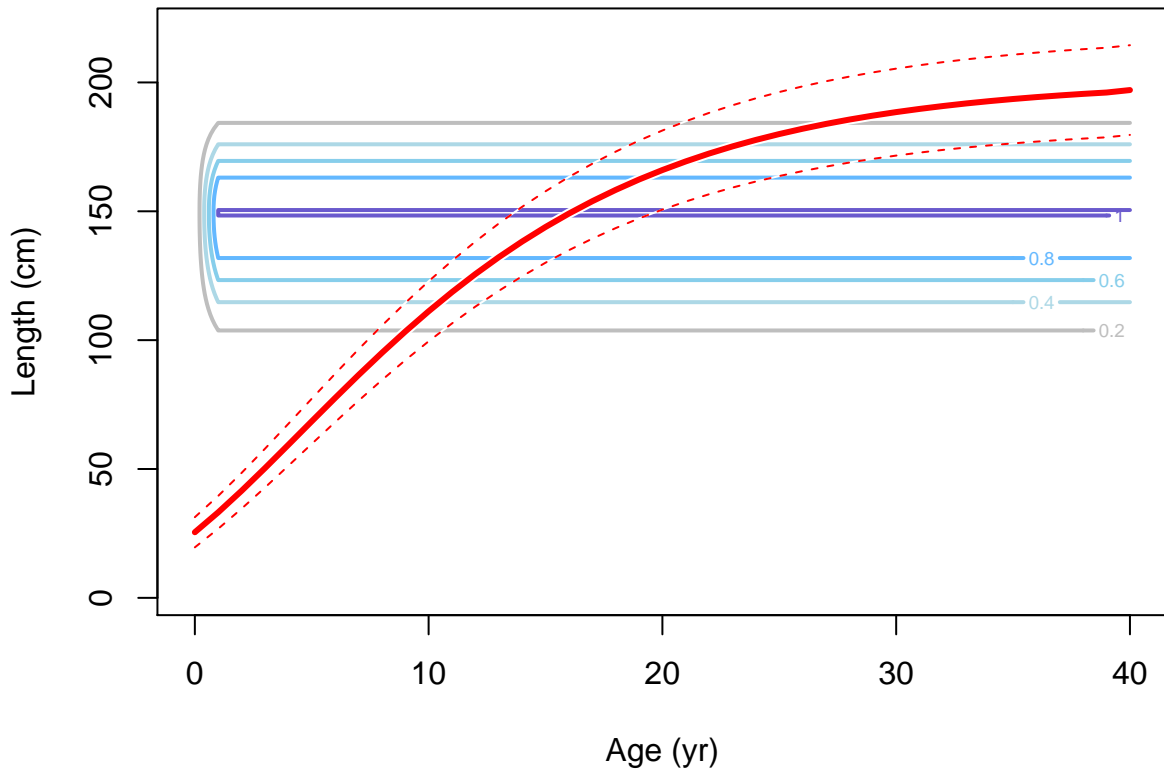
Female ending year selectivity and growth for A4-LL-w



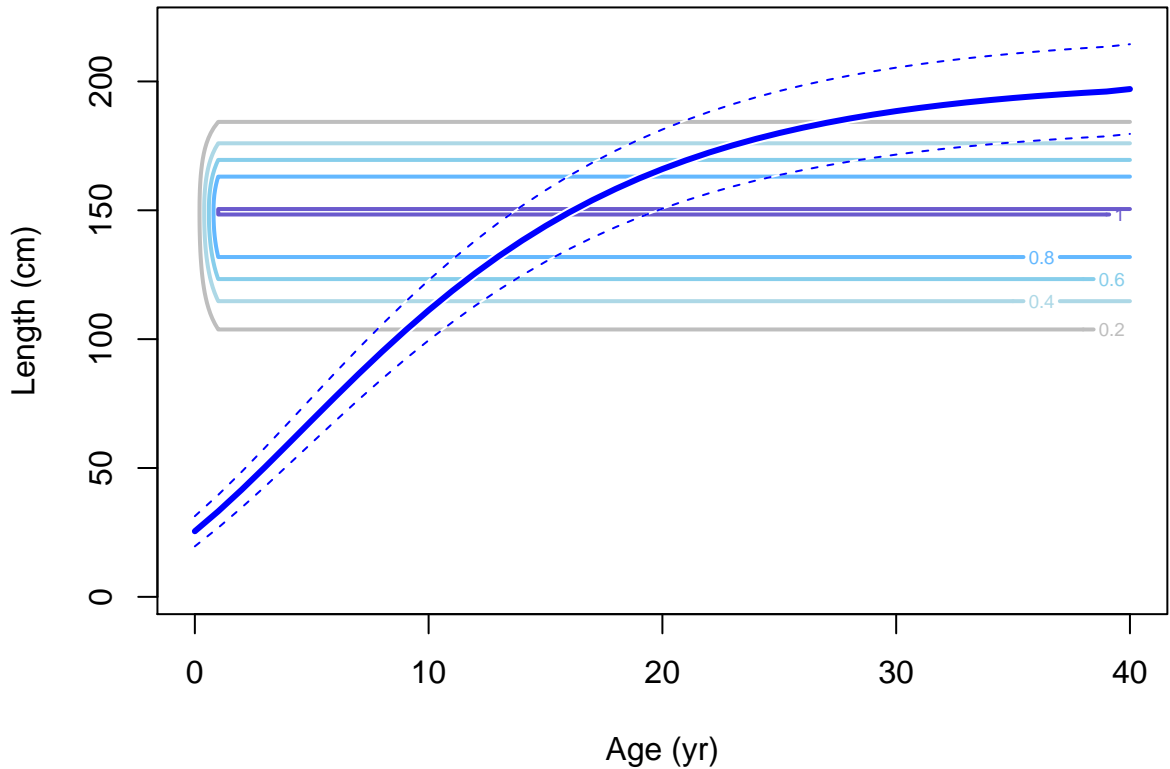
Male ending year selectivity and growth for A4-LL-w



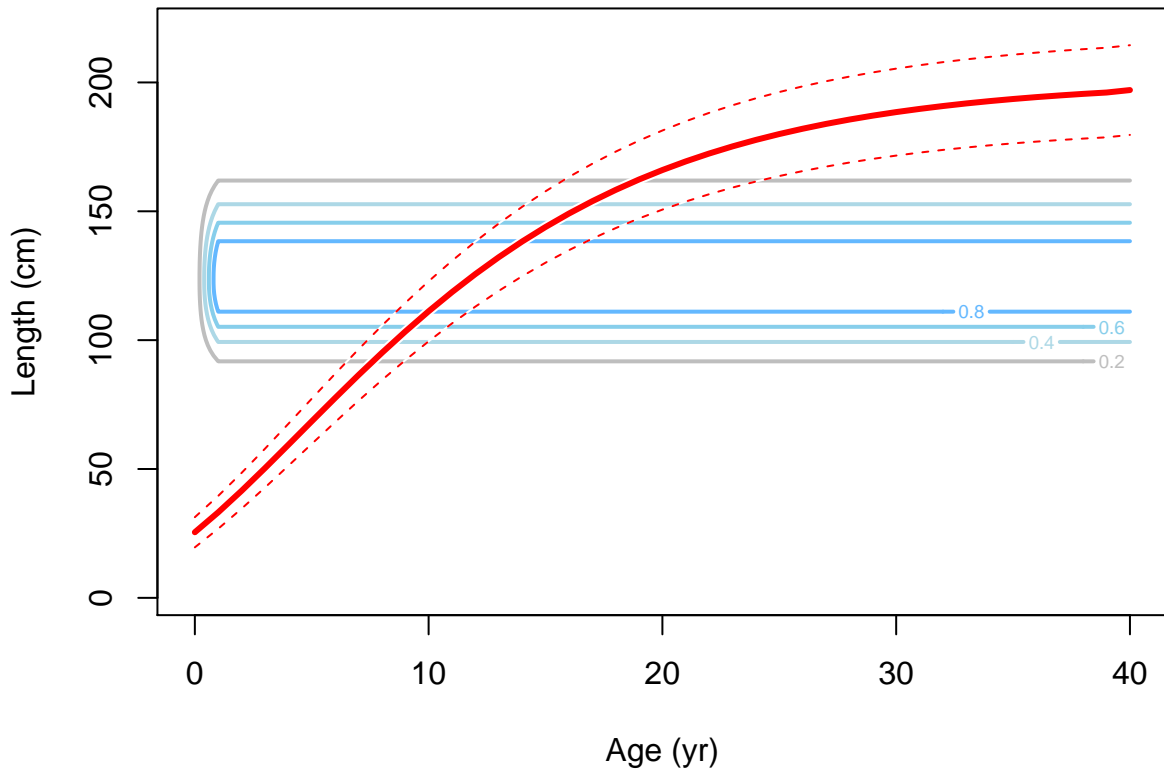
Female ending year selectivity and growth for A5-LL-w



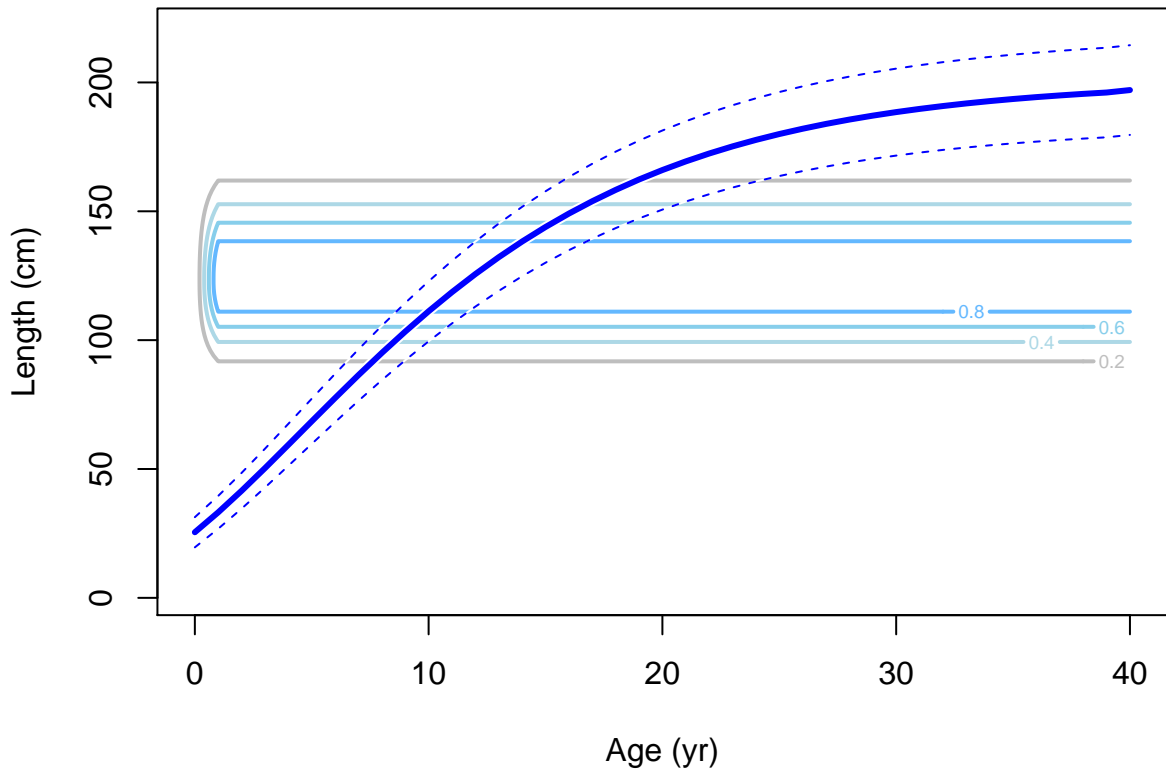
Male ending year selectivity and growth for A5-LL-w



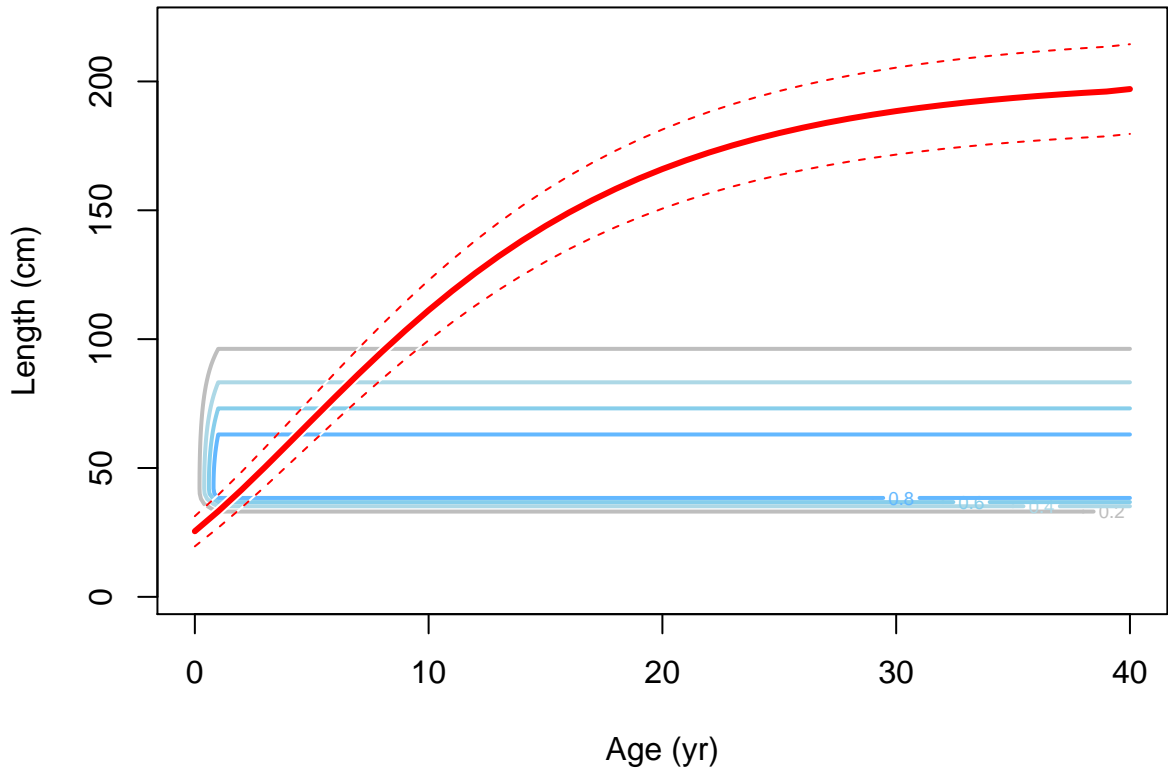
Female ending year selectivity and growth for A6-LL-w



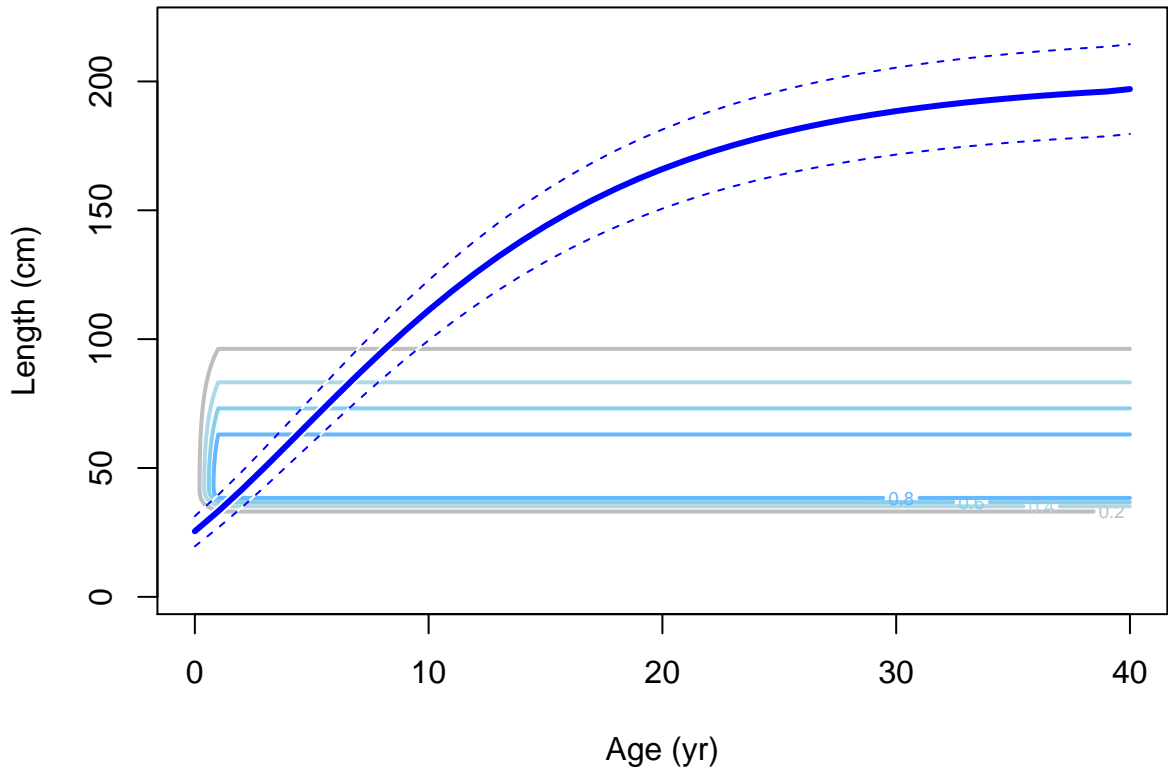
Male ending year selectivity and growth for A6-LL-w



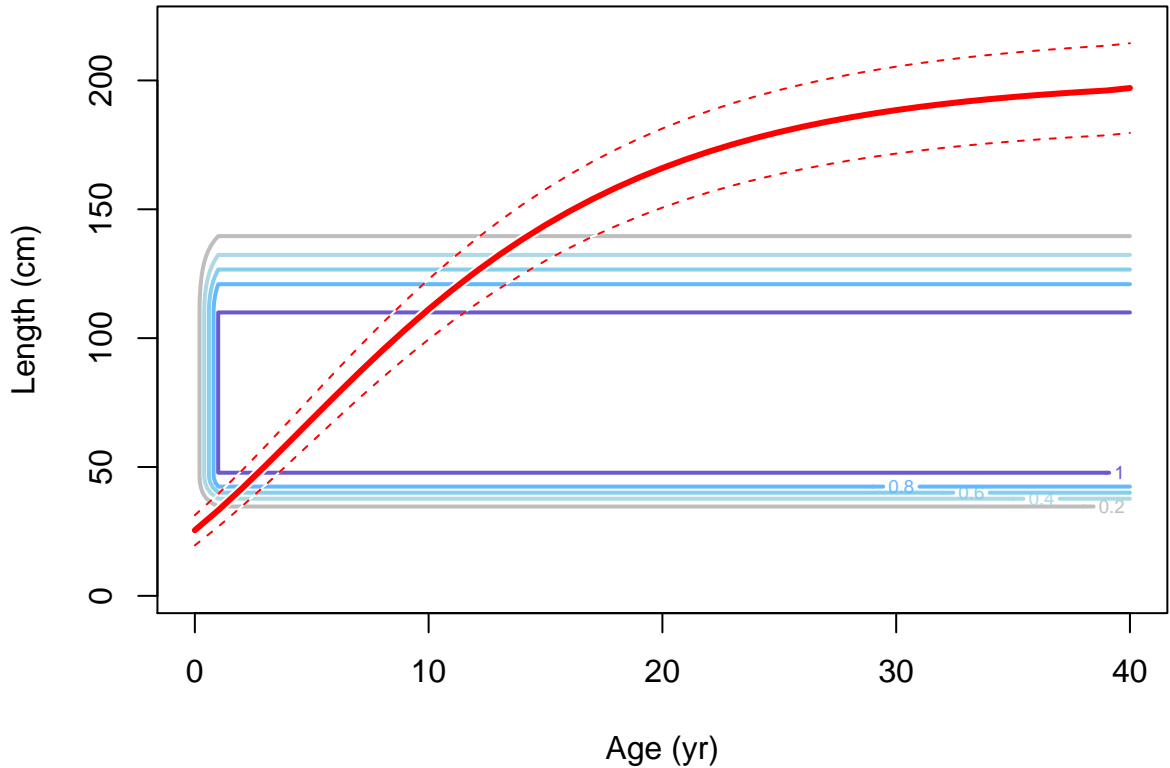
Female ending year selectivity and growth for A2-OBJ



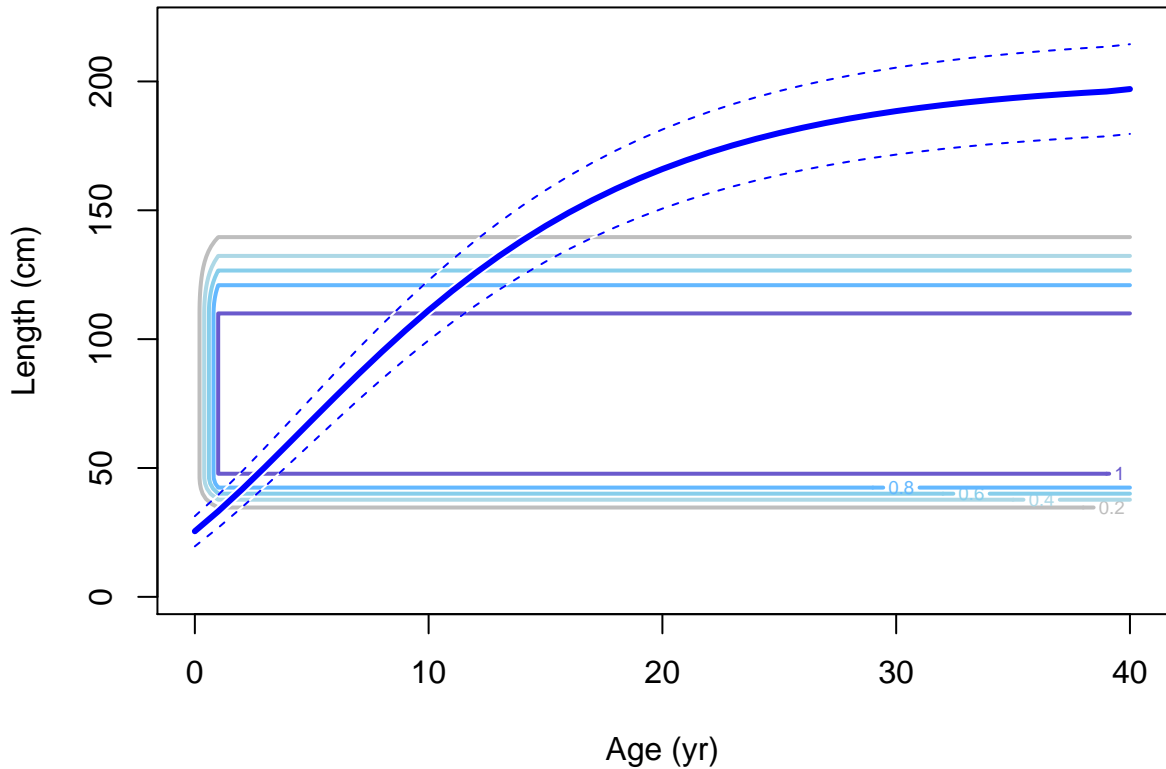
Male ending year selectivity and growth for A2-OBJ



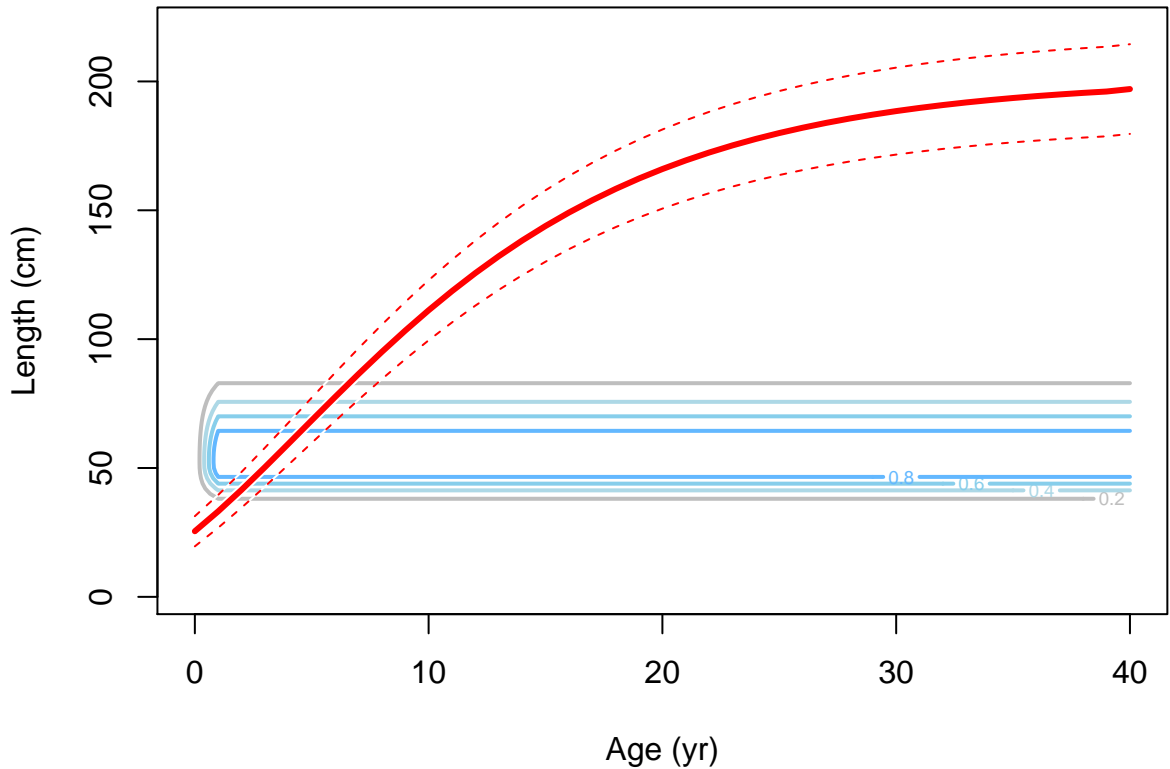
Female ending year selectivity and growth for A3-OBJ



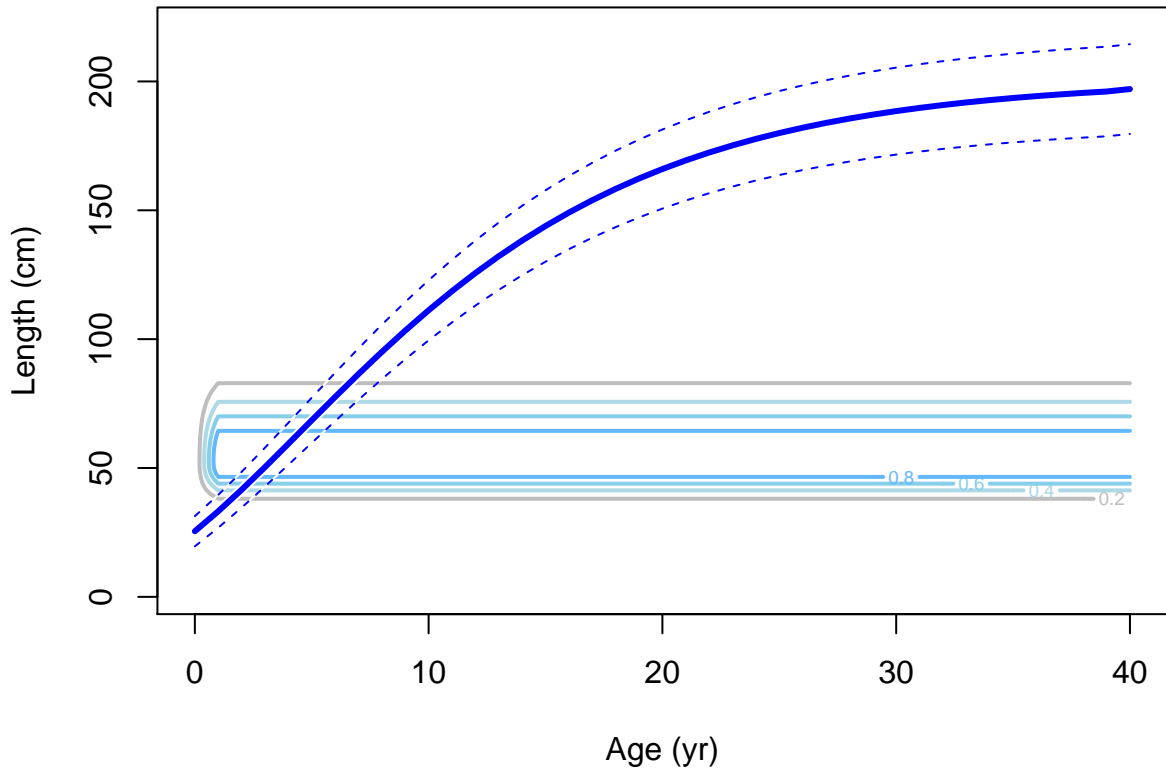
Male ending year selectivity and growth for A3-OBJ



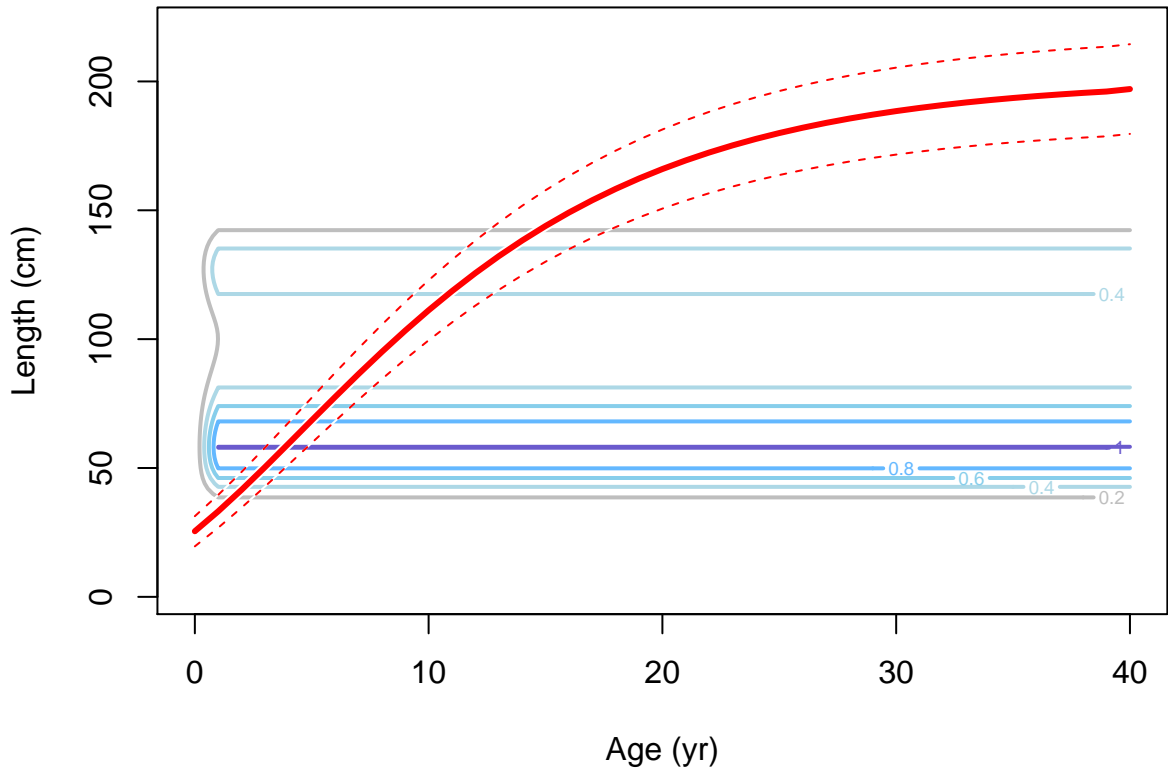
Female ending year selectivity and growth for A4-OBJ



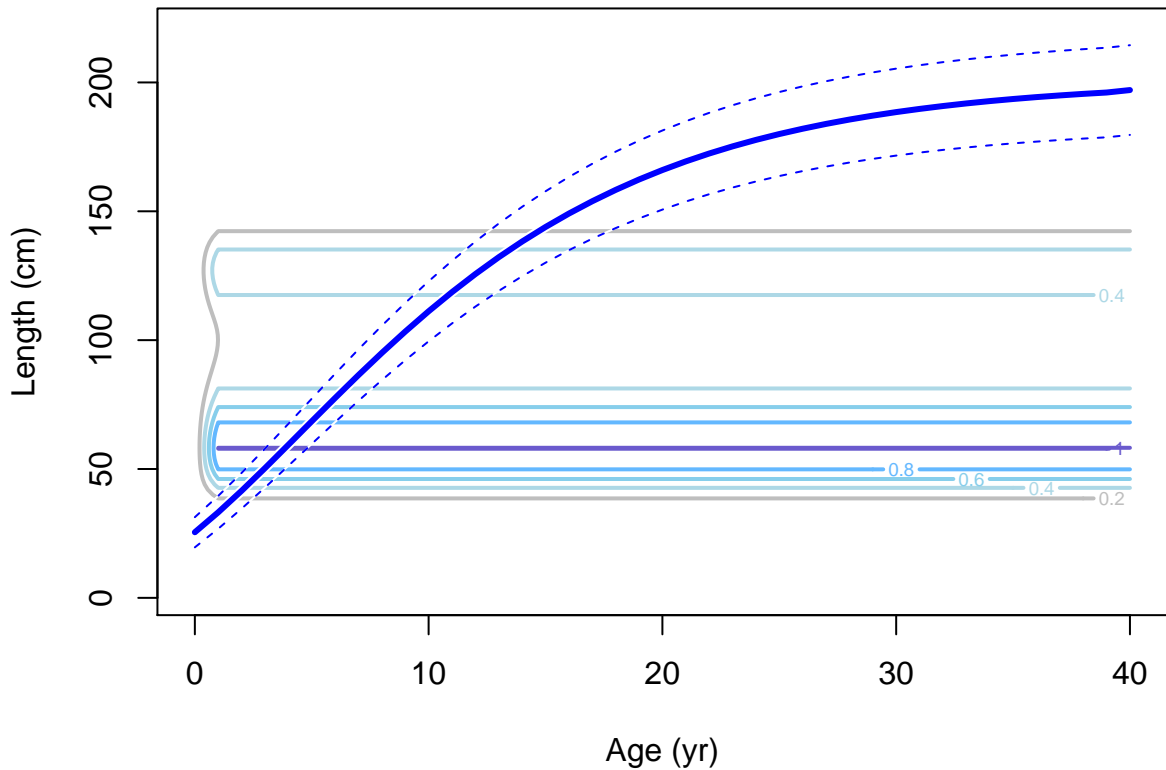
Male ending year selectivity and growth for A4-OBJ



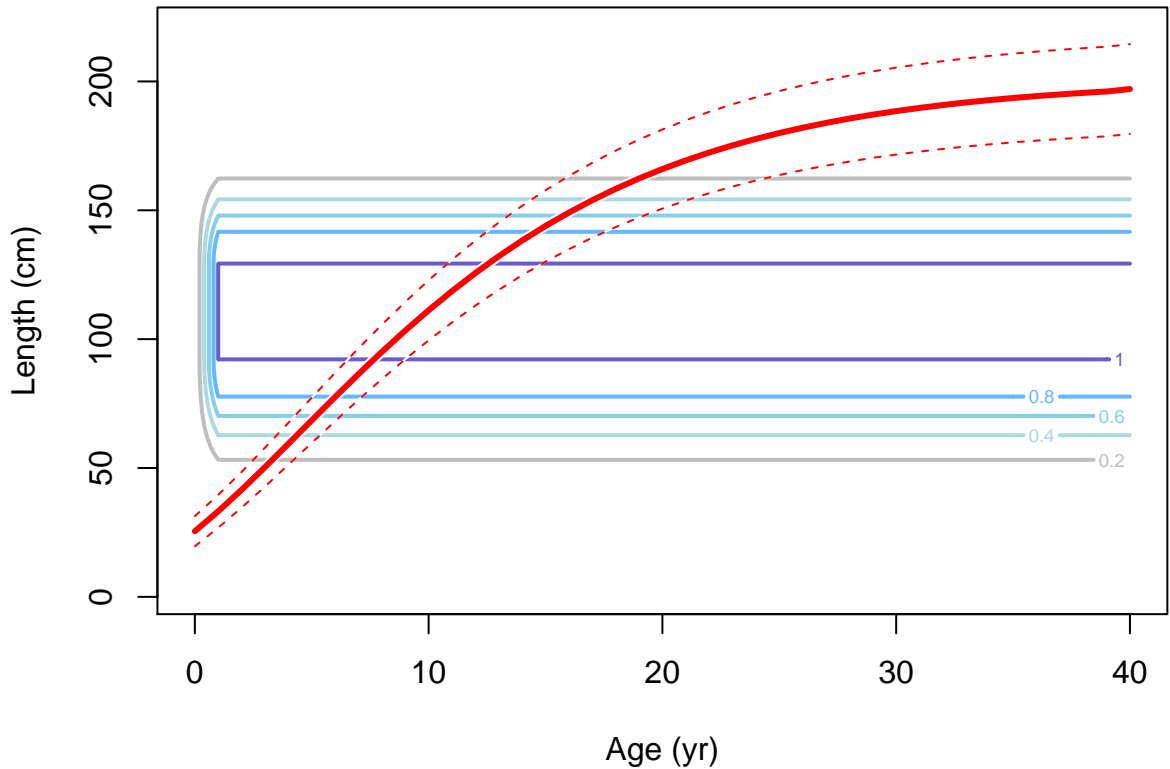
Female ending year selectivity and growth for A5-OBJ



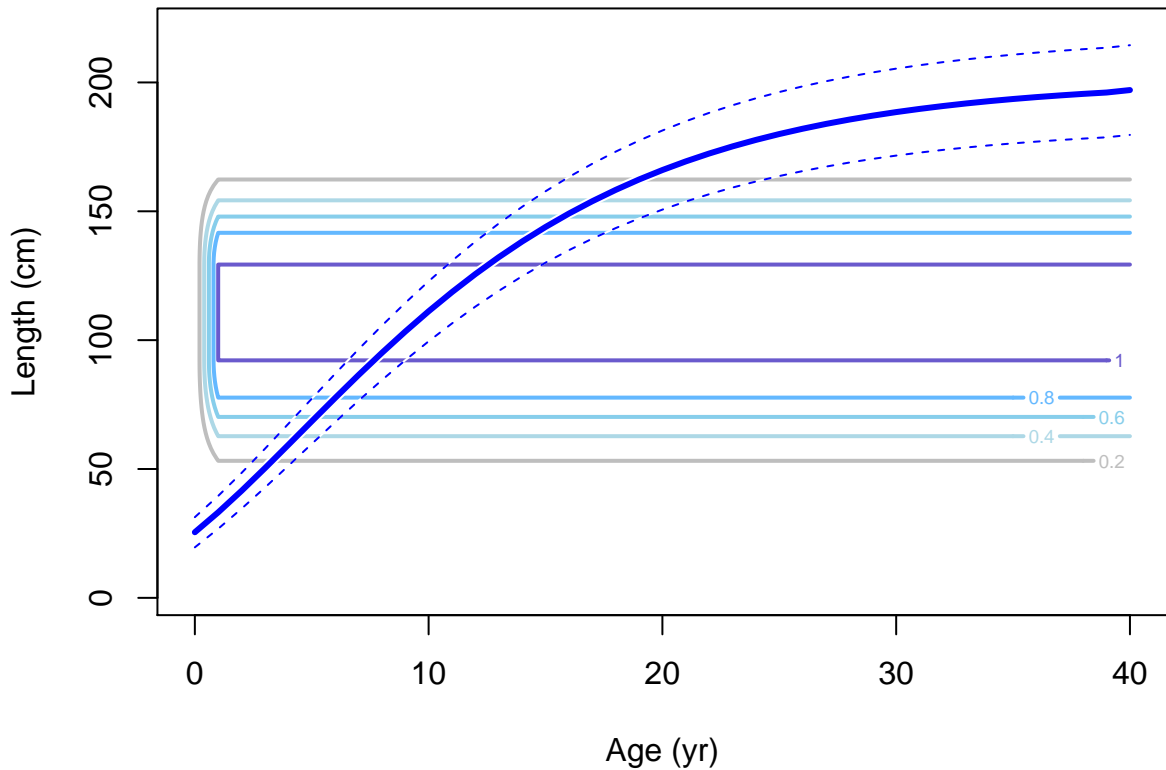
Male ending year selectivity and growth for A5-OBJ



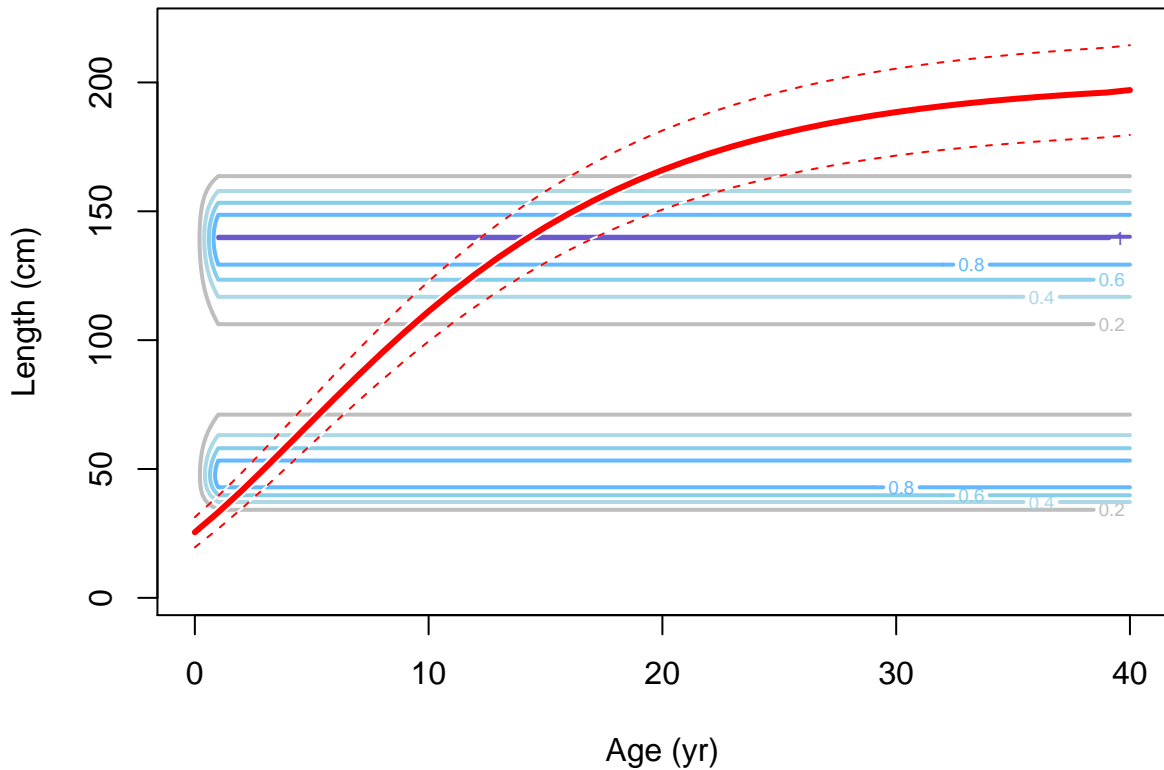
Female ending year selectivity and growth for A6-OBJ



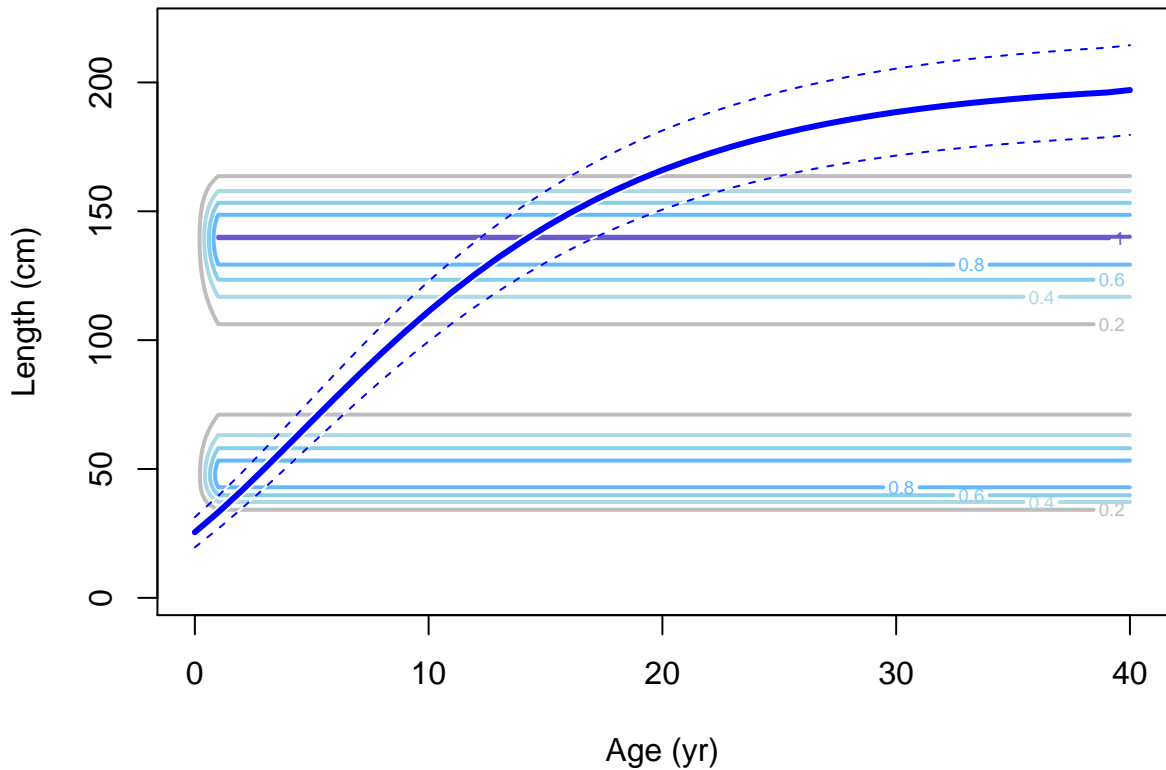
Male ending year selectivity and growth for A6-OBJ



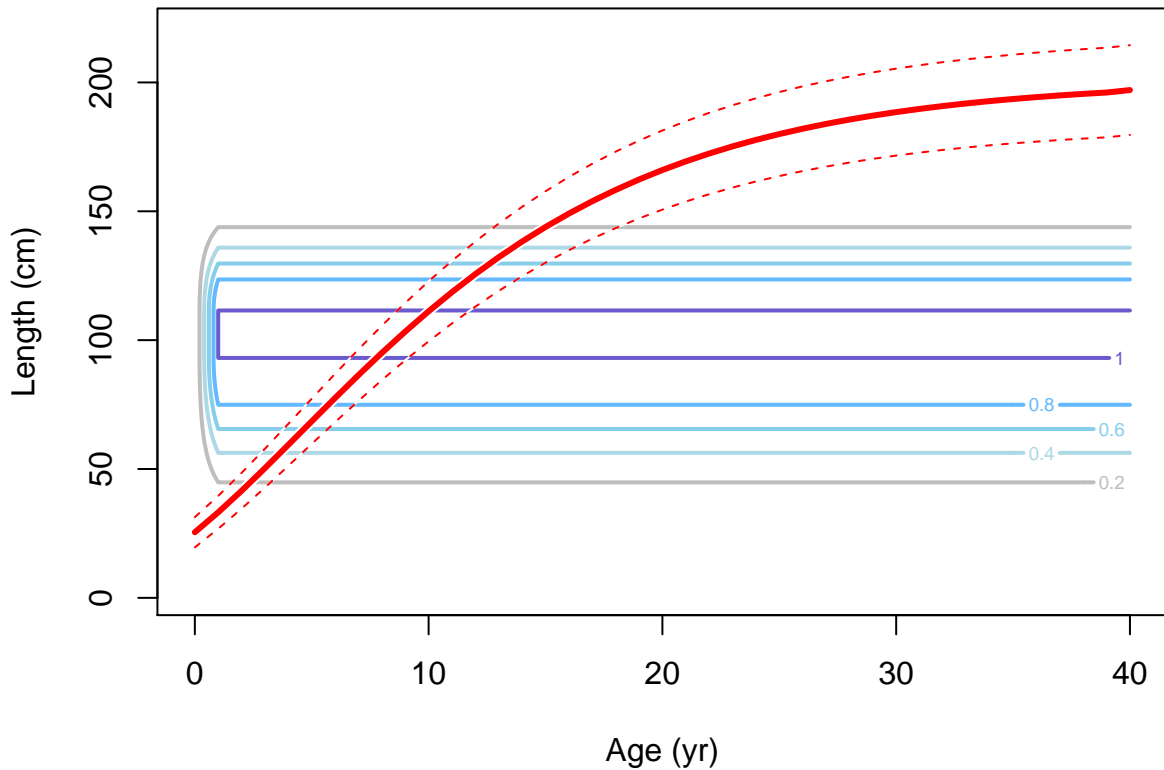
Female ending year selectivity and growth for A2-NOADEL



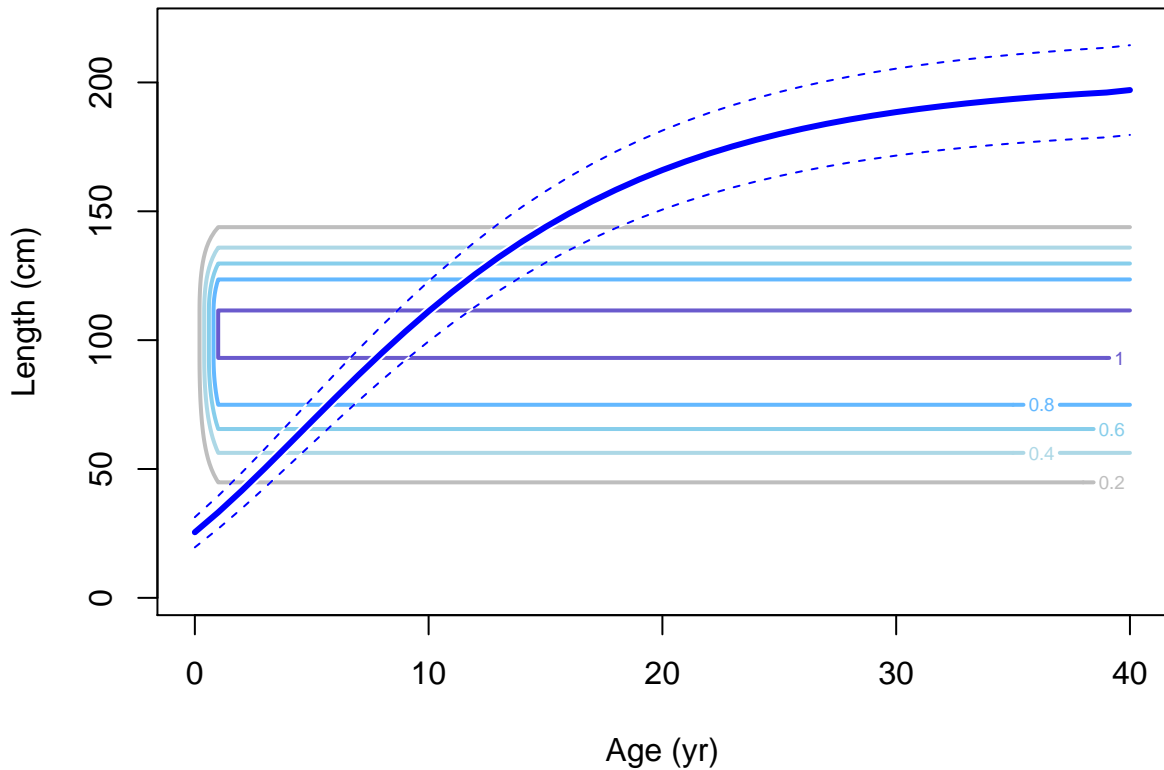
Male ending year selectivity and growth for A2-NOADEL



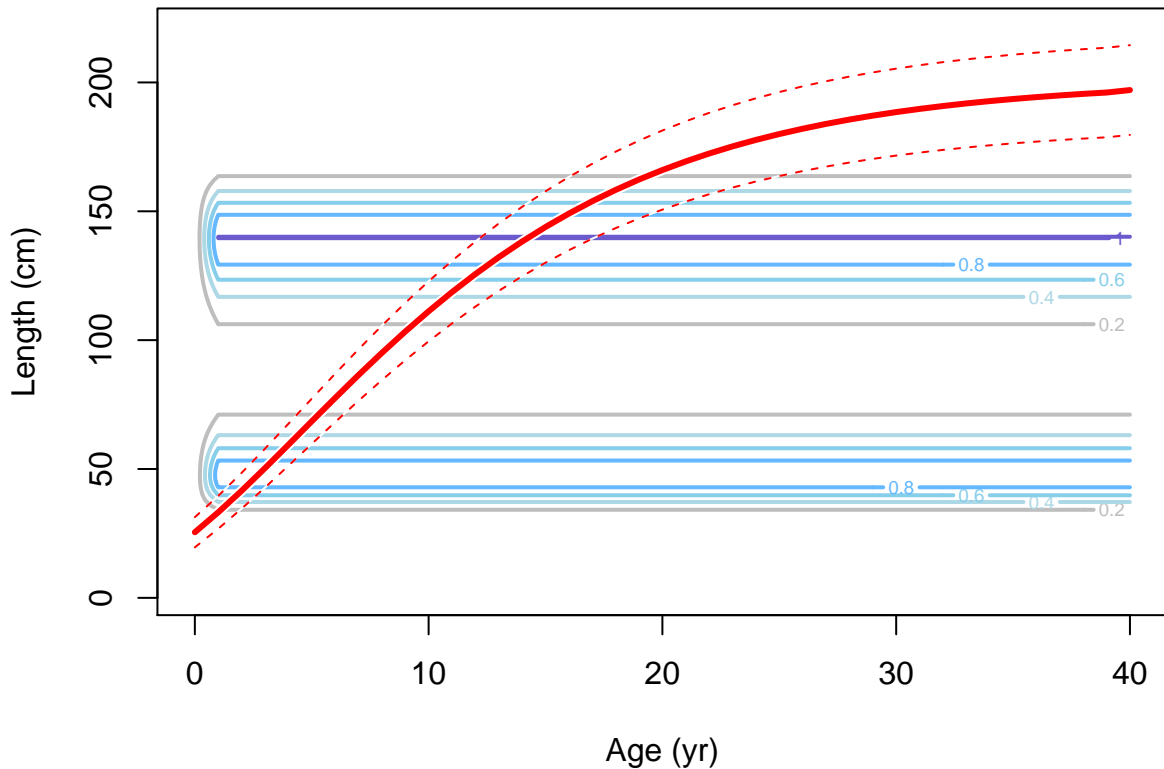
Female ending year selectivity and growth for A3-NOADEL



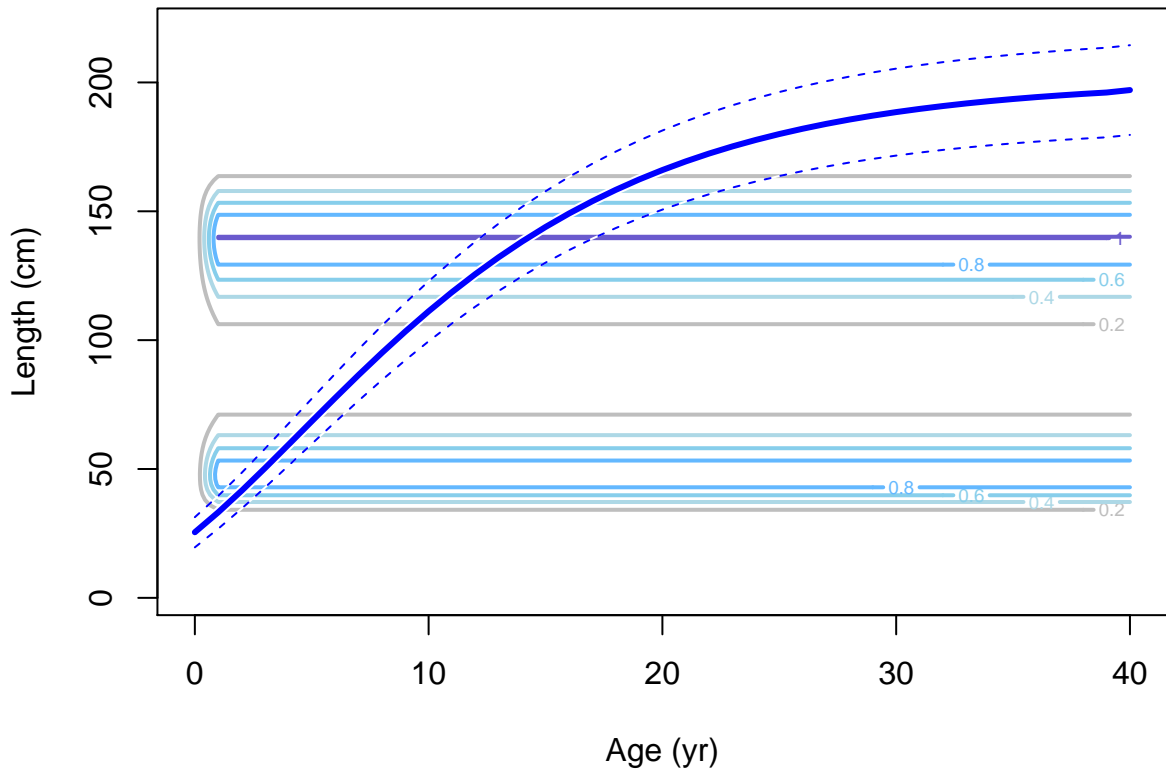
Male ending year selectivity and growth for A3-NOADEL



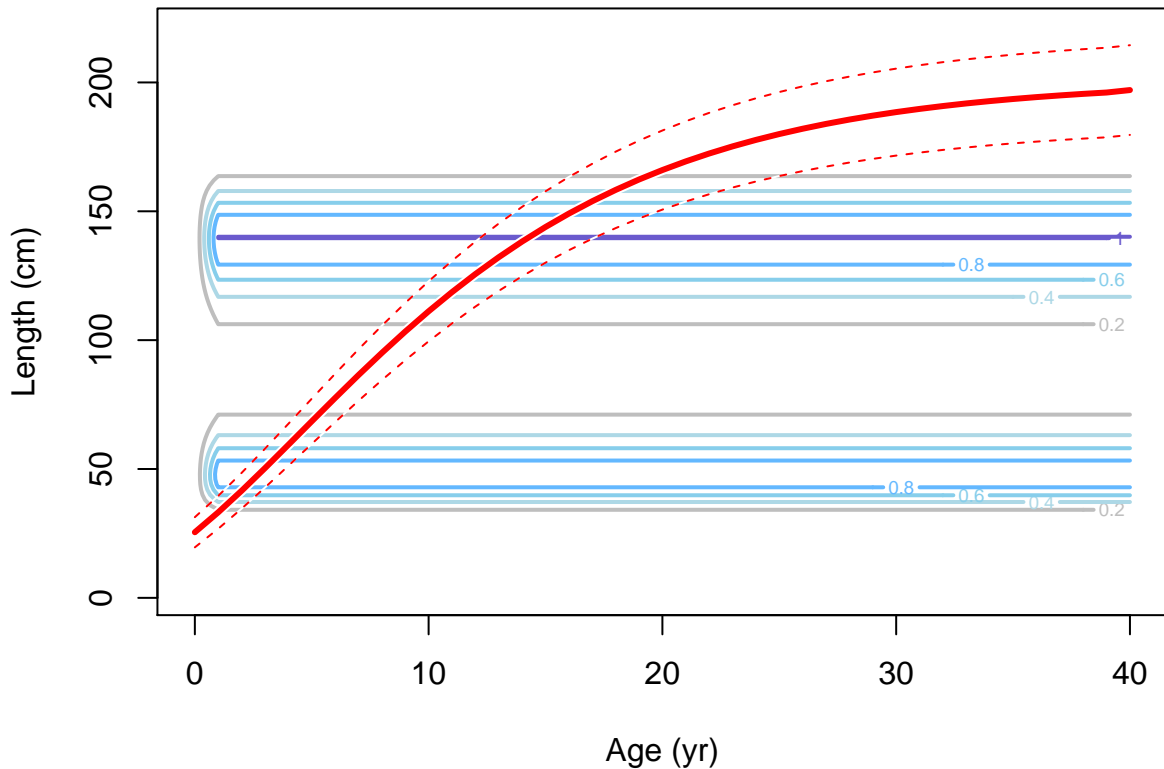
Female ending year selectivity and growth for A4-NOADEL



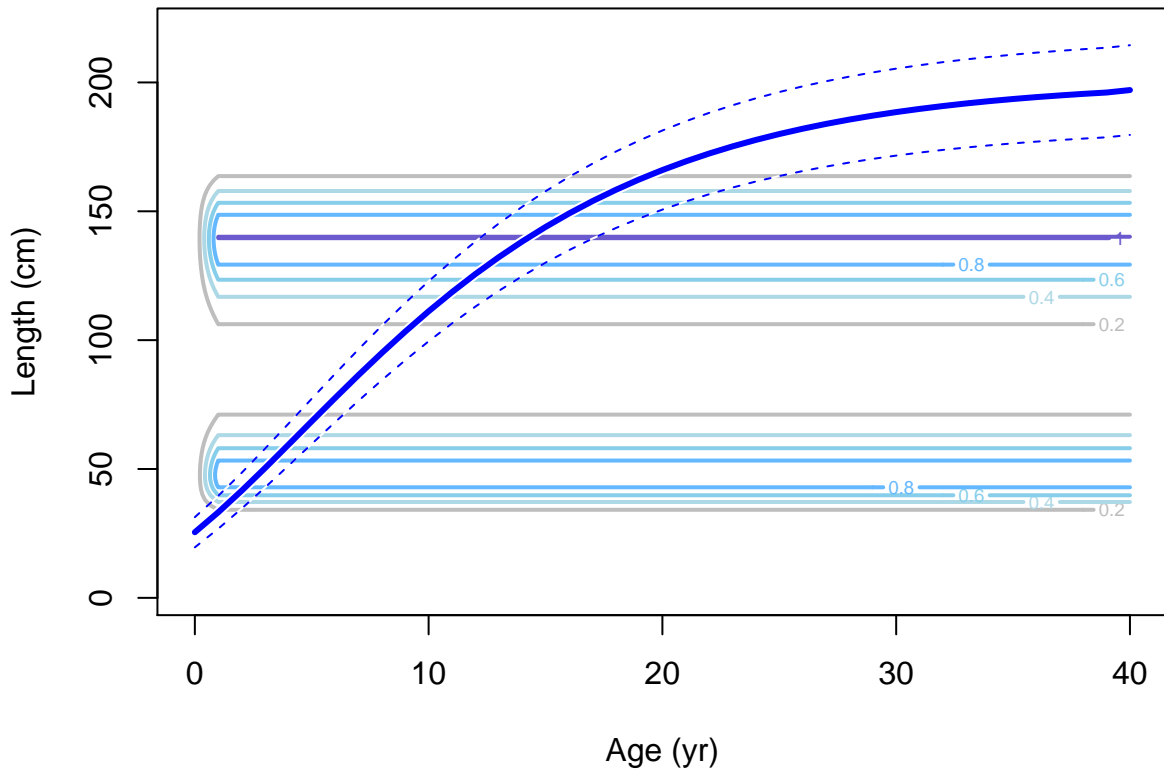
Male ending year selectivity and growth for A4-NOADEL



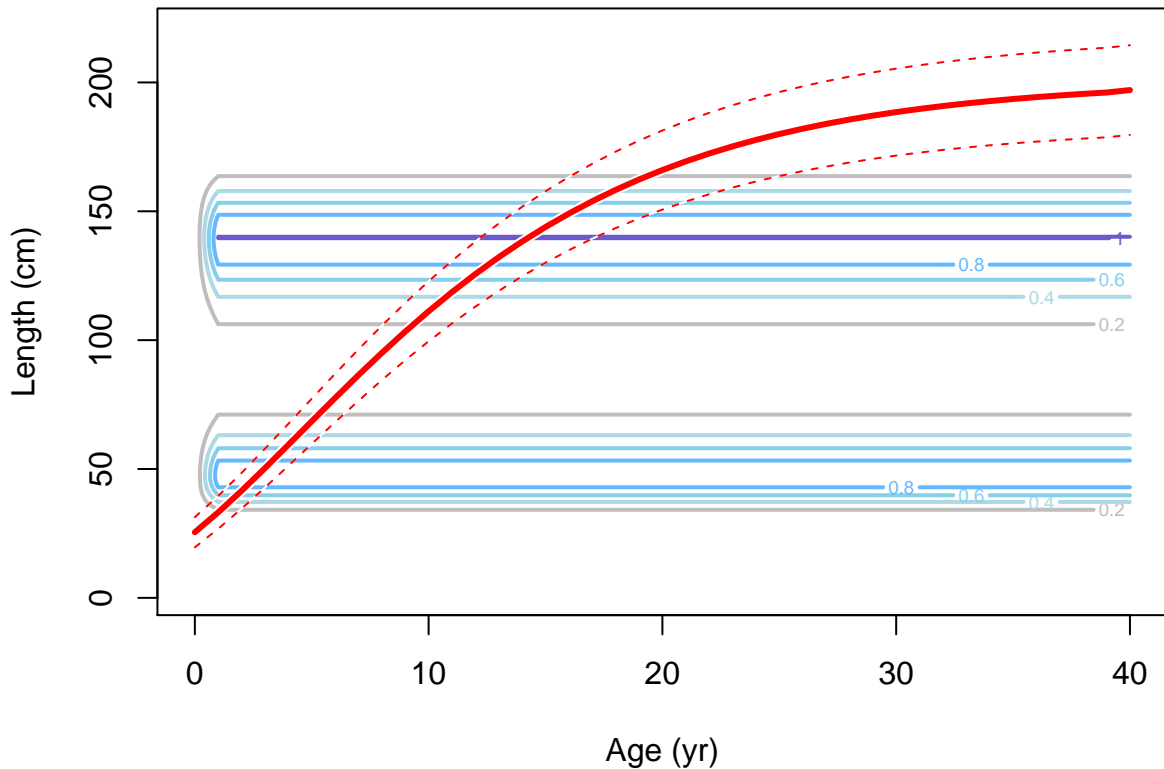
Female ending year selectivity and growth for A5-NOADEL



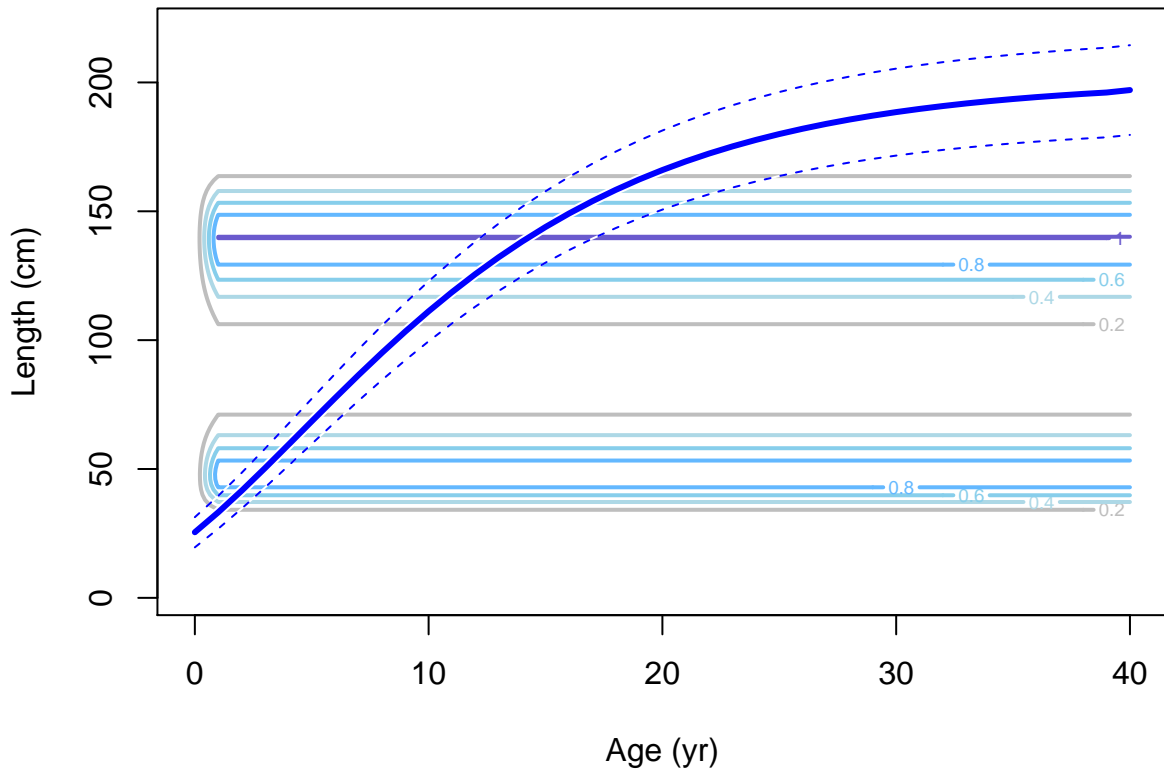
Male ending year selectivity and growth for A5-NOADEL



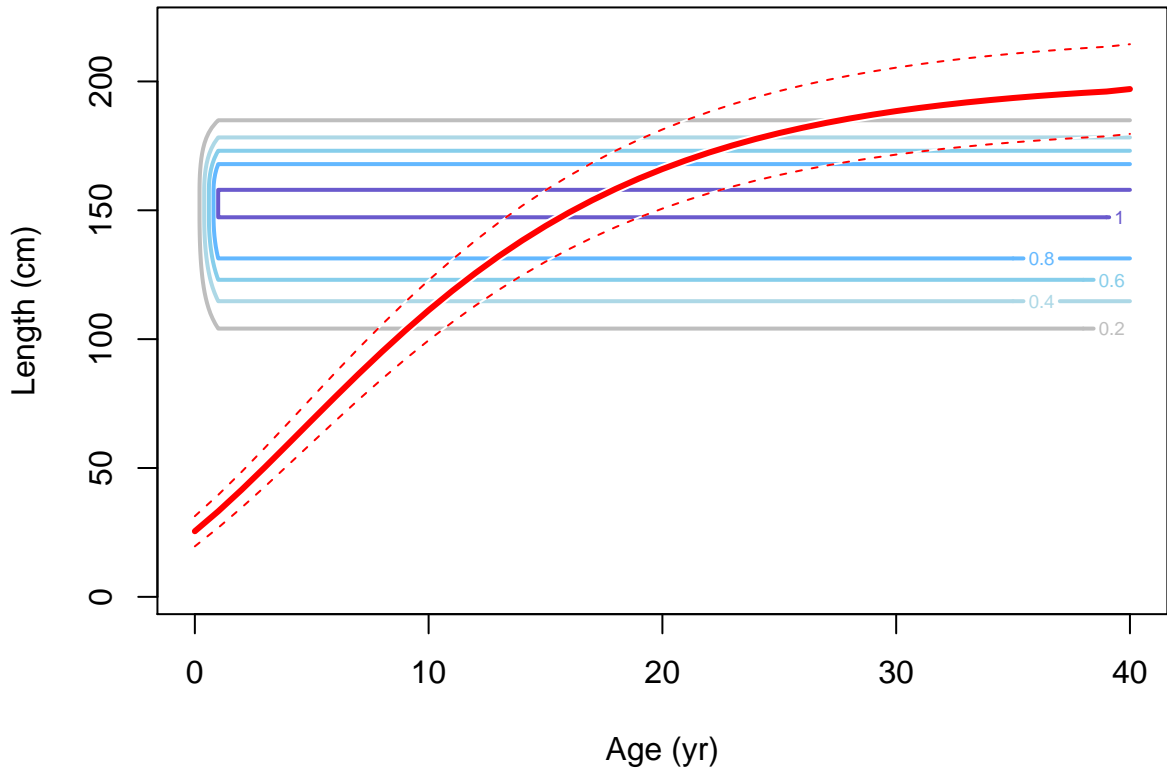
Female ending year selectivity and growth for A6-NOADEL



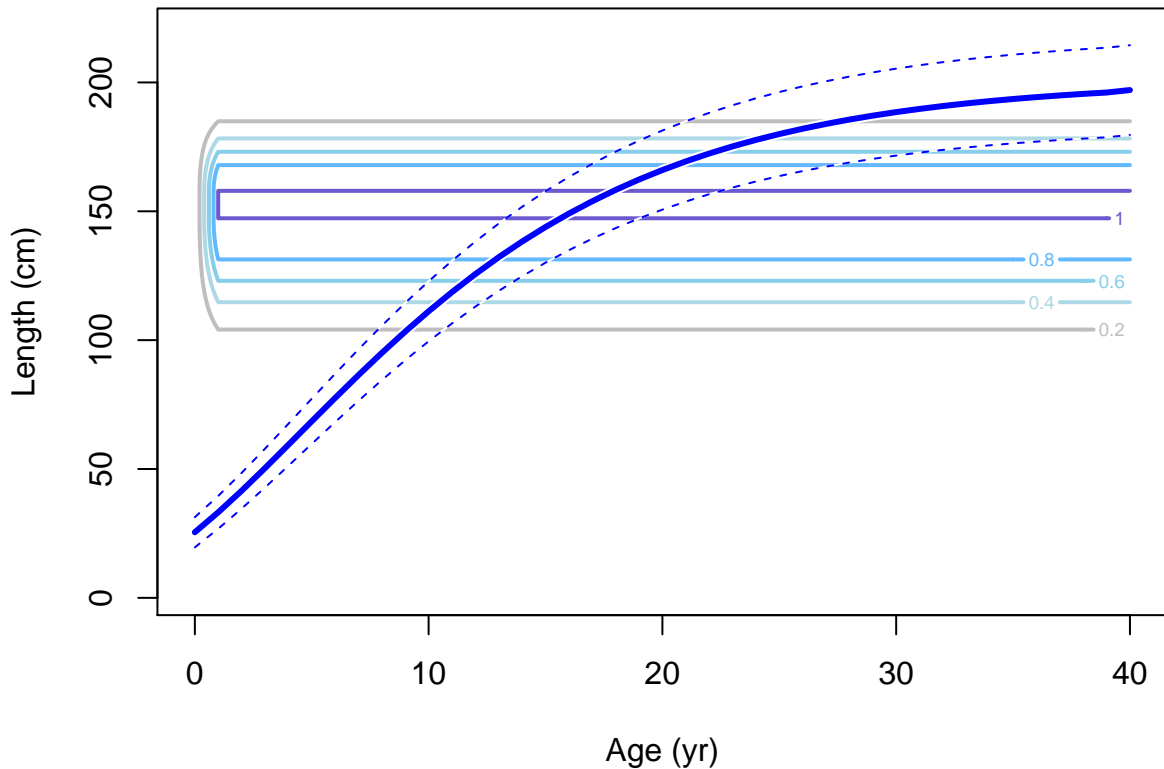
Male ending year selectivity and growth for A6-NOADEL



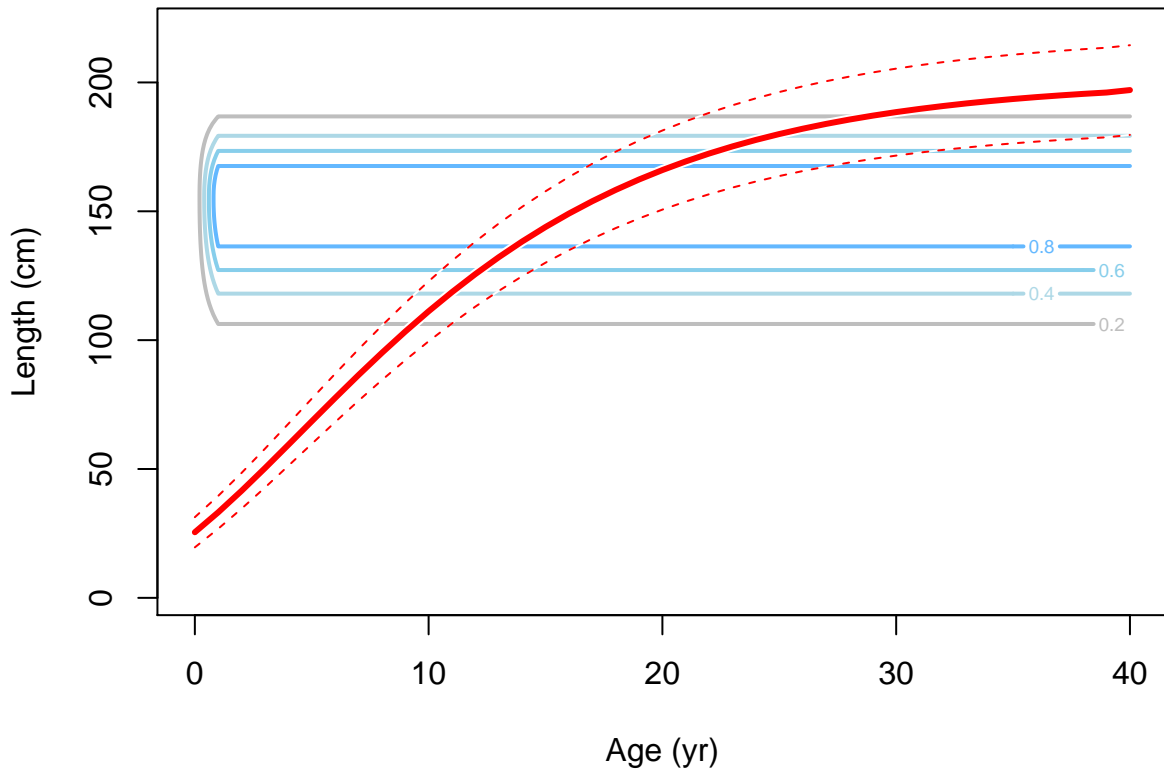
Female ending year selectivity and growth for EPO-LL-survey-early



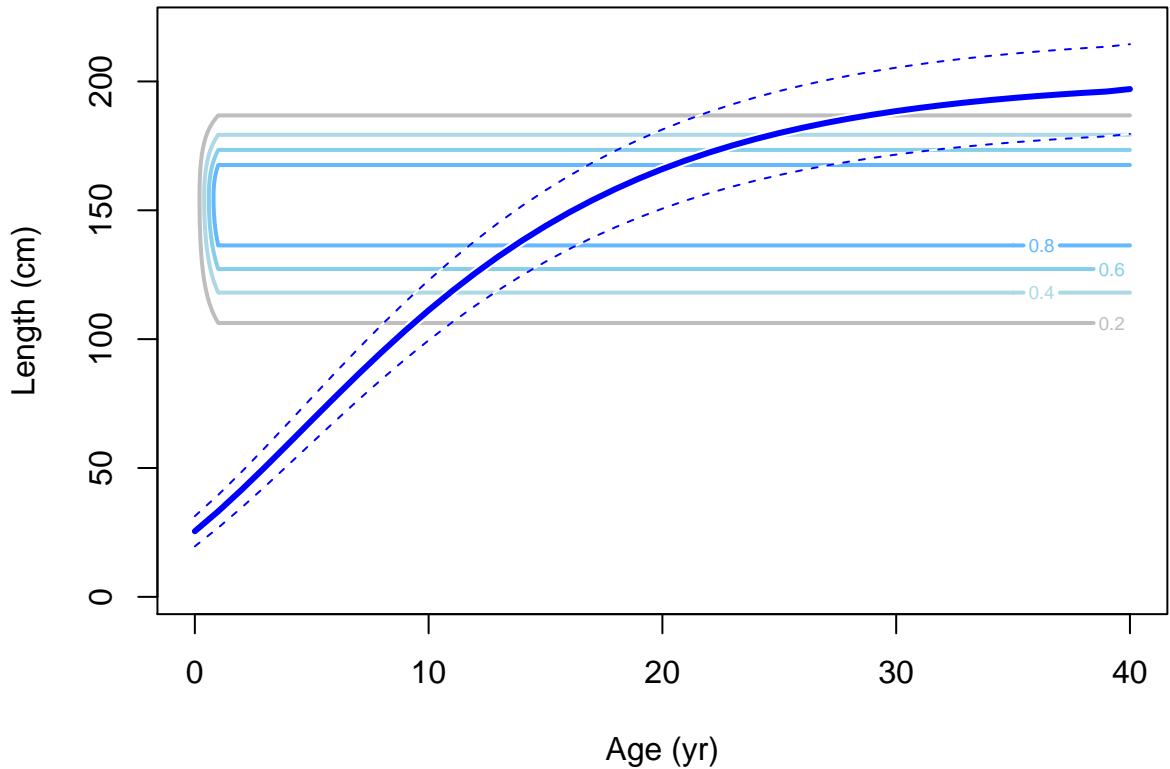
Male ending year selectivity and growth for EPO-LL-survey-early



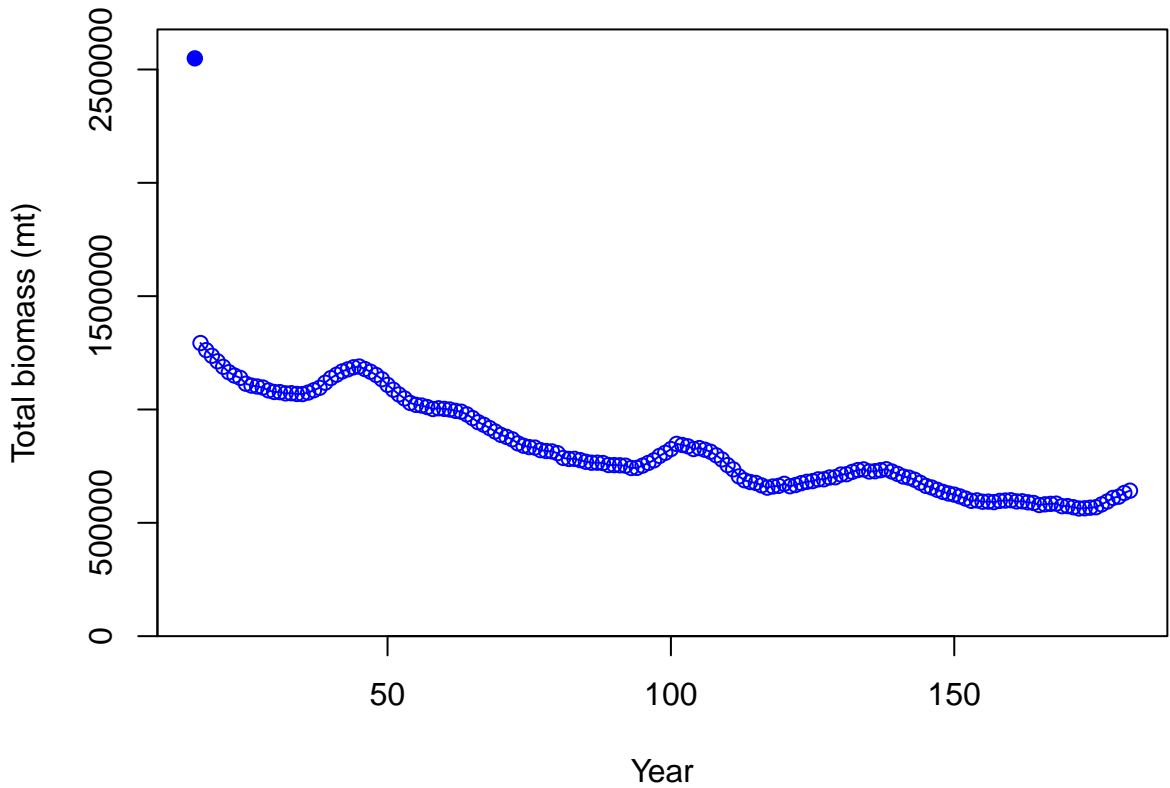
Female ending year selectivity and growth for EPO-LL-survey-late



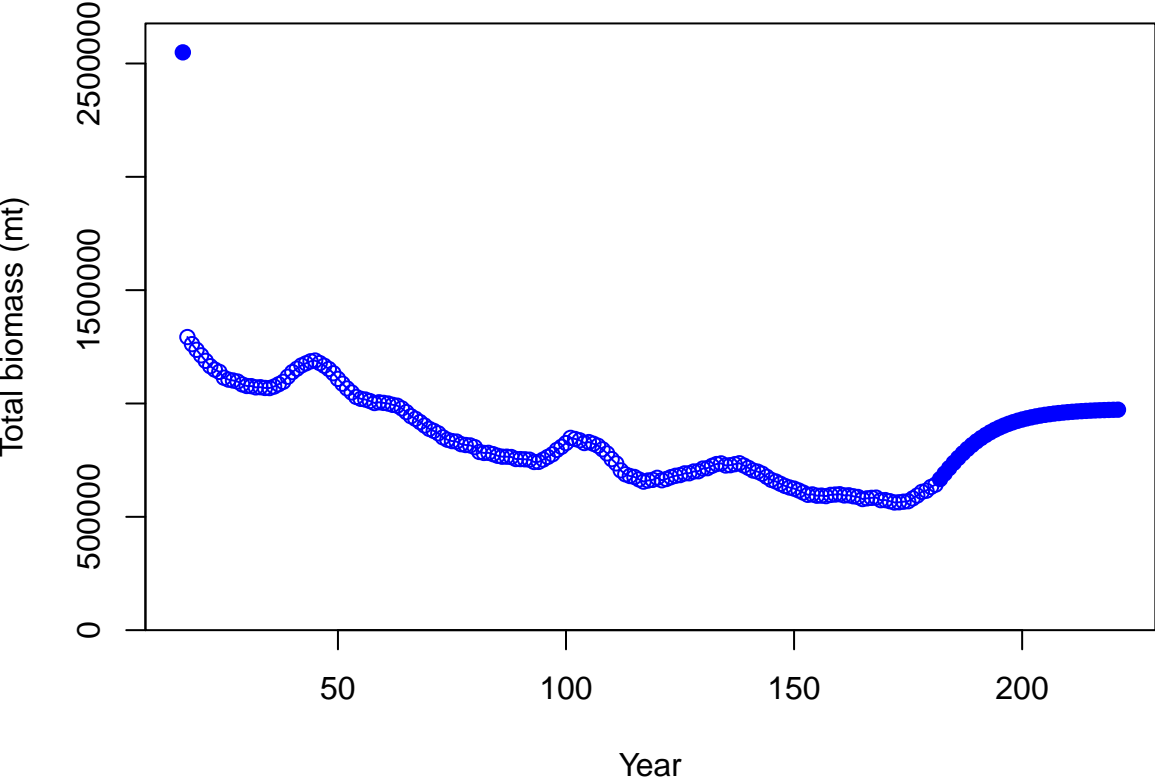
Male ending year selectivity and growth for EPO-LL-survey-late



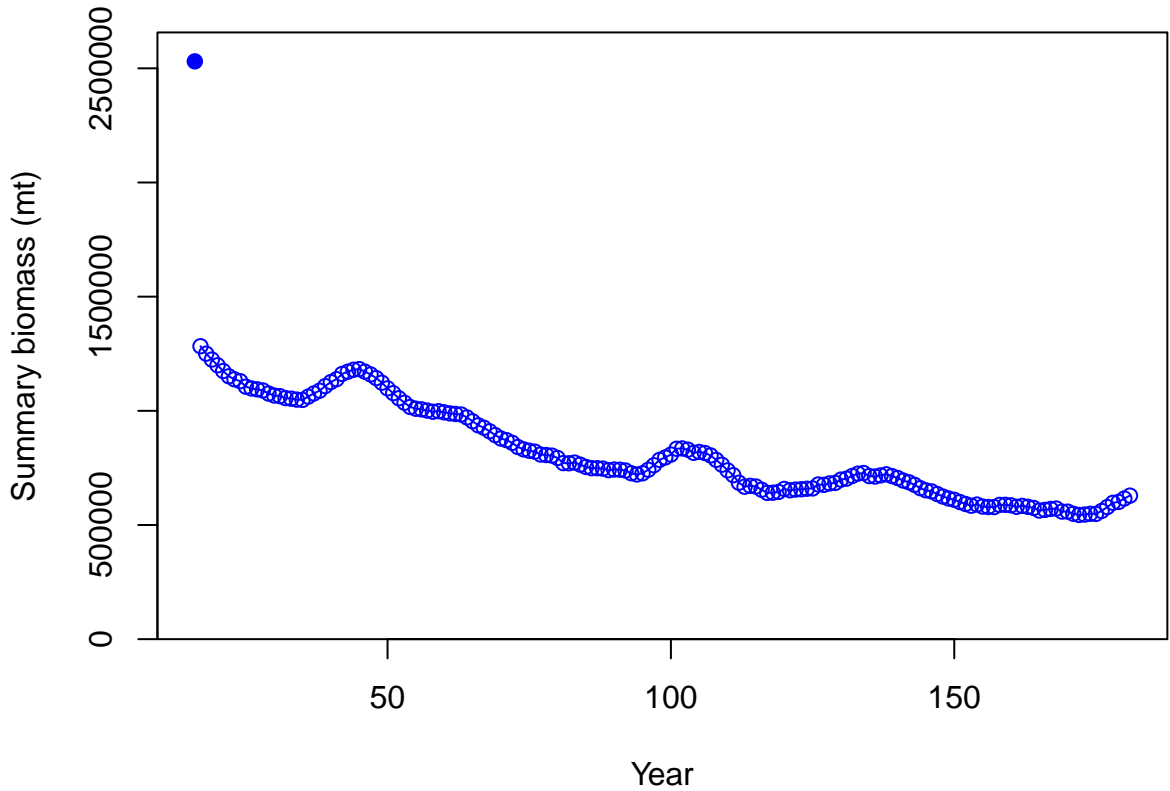
Total biomass (mt)



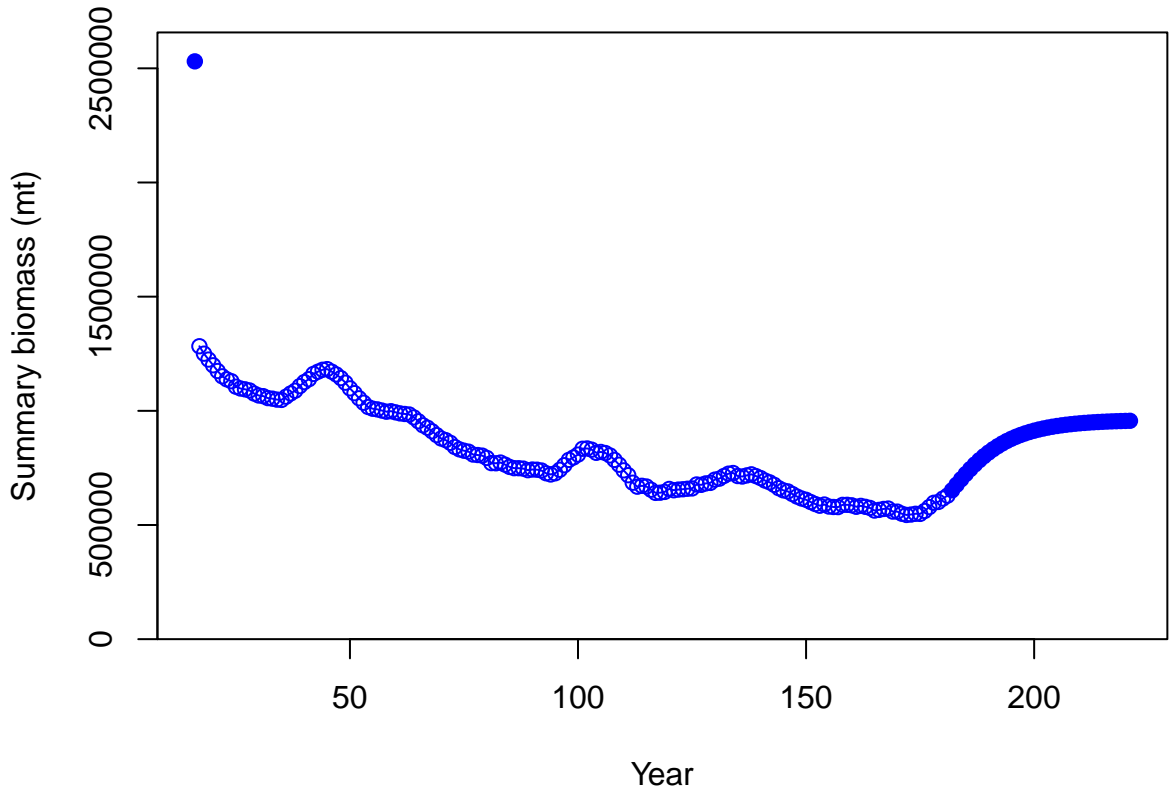
Total biomass (mt) with forecast



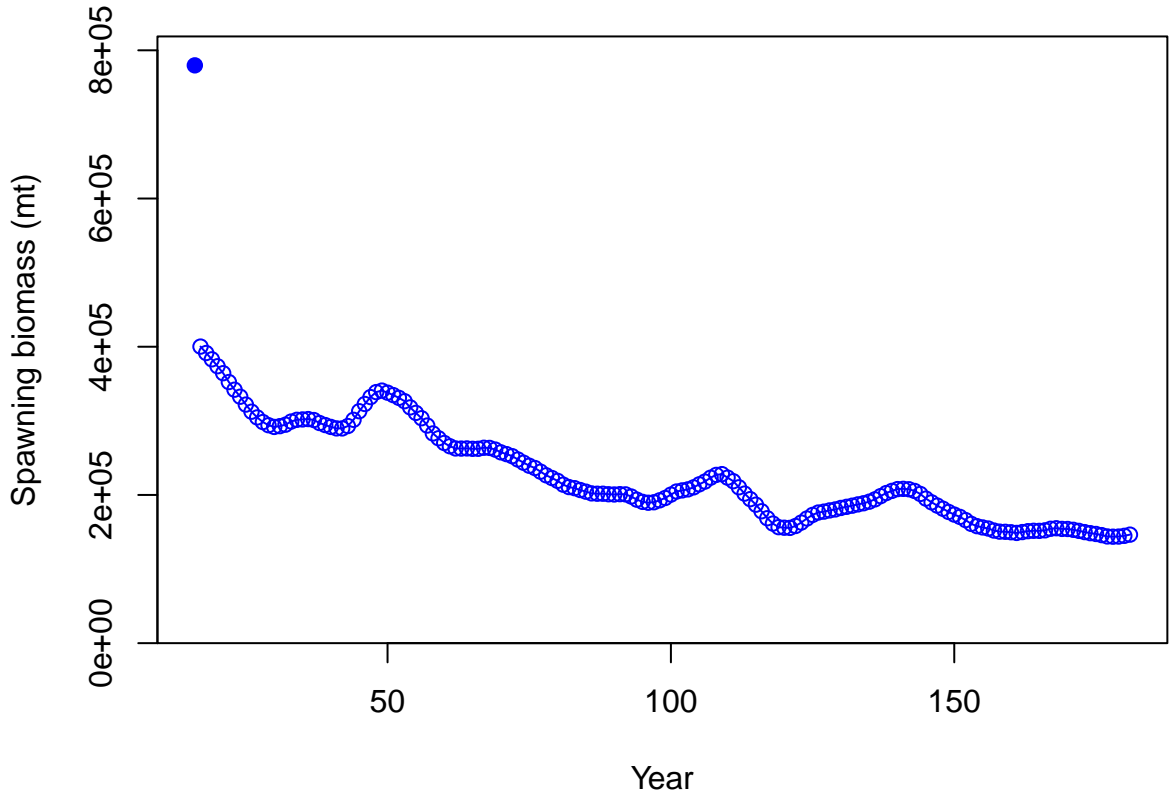
Summary biomass (mt)



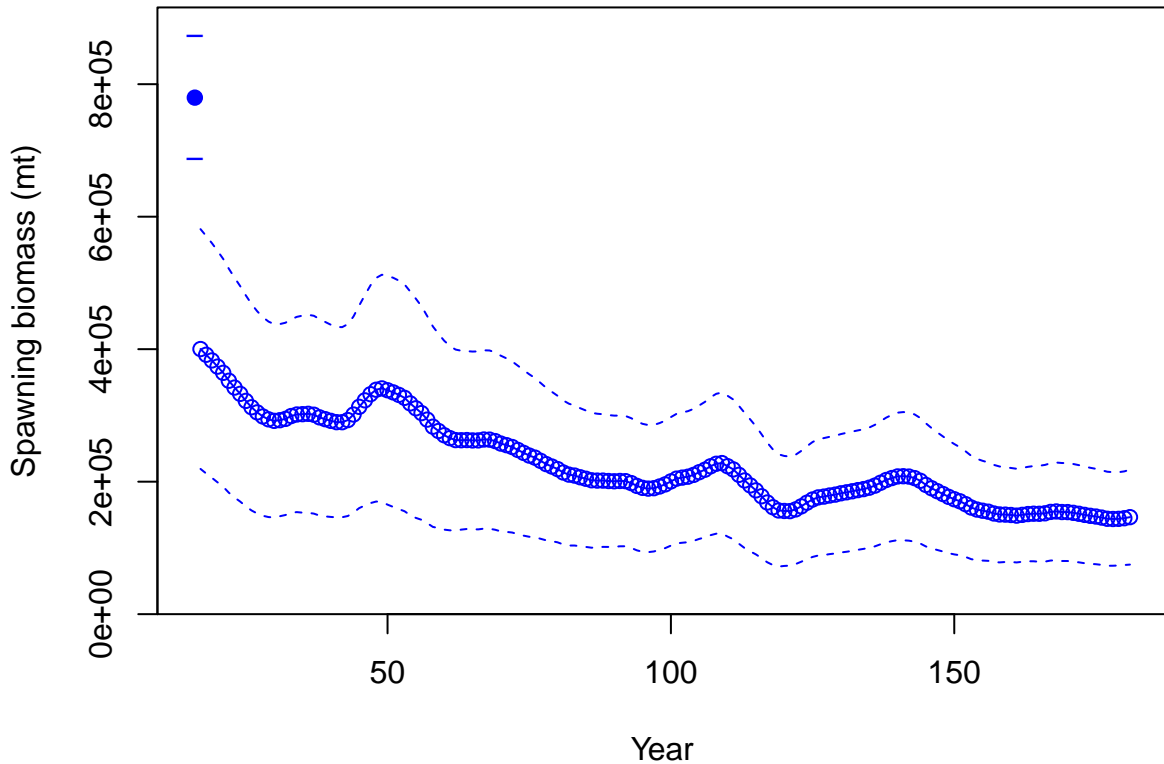
Summary biomass (mt) with forecast



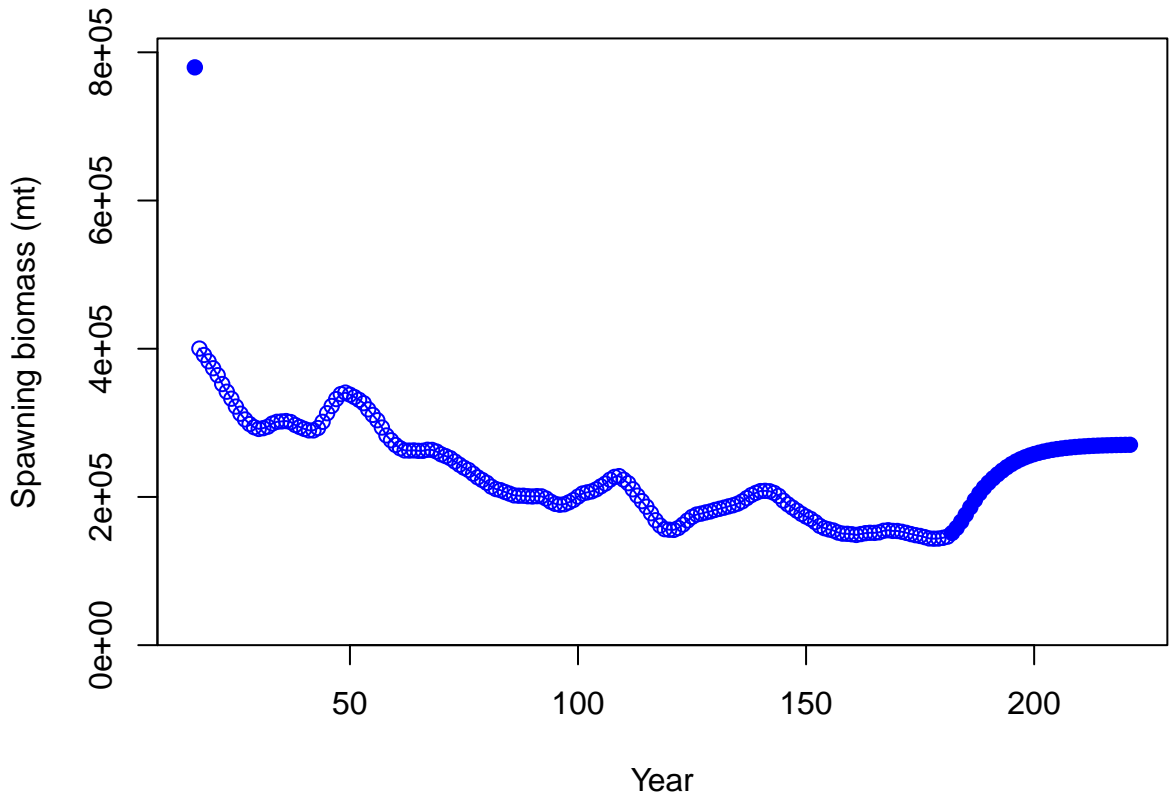
Spawning biomass (mt)



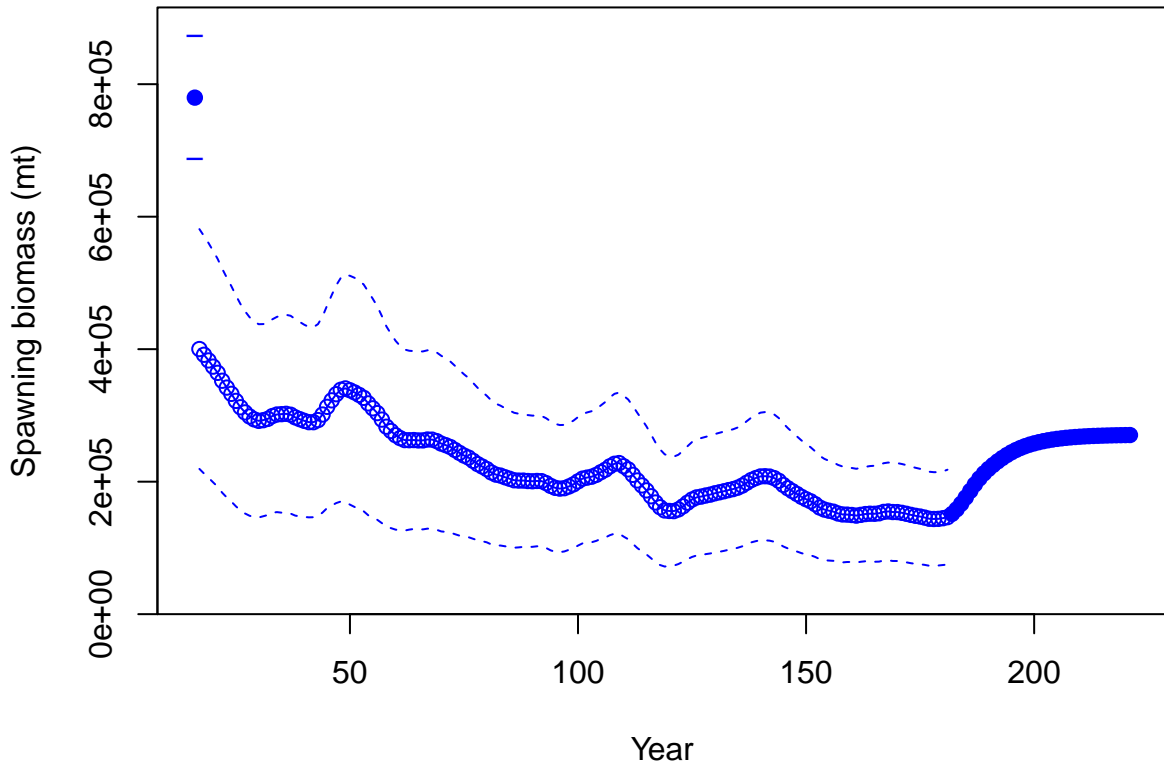
Spawning biomass (mt) with ~95% asymptotic intervals



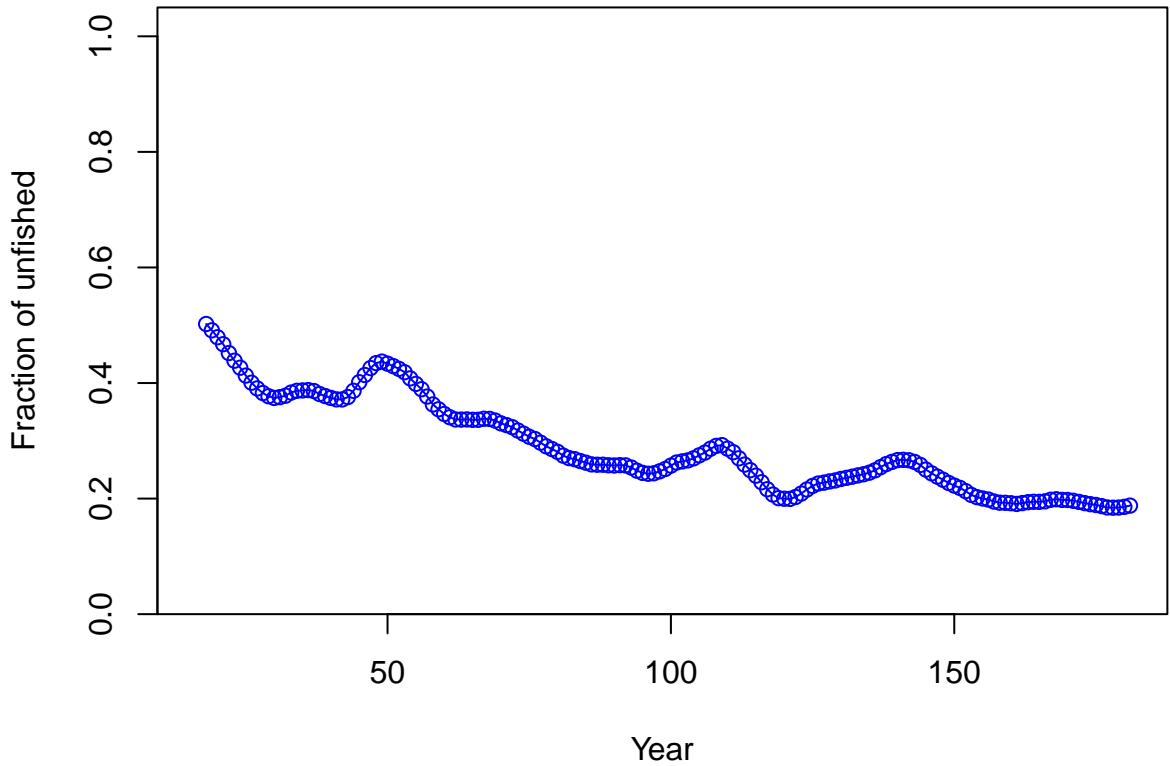
Spawning biomass (mt) with forecast



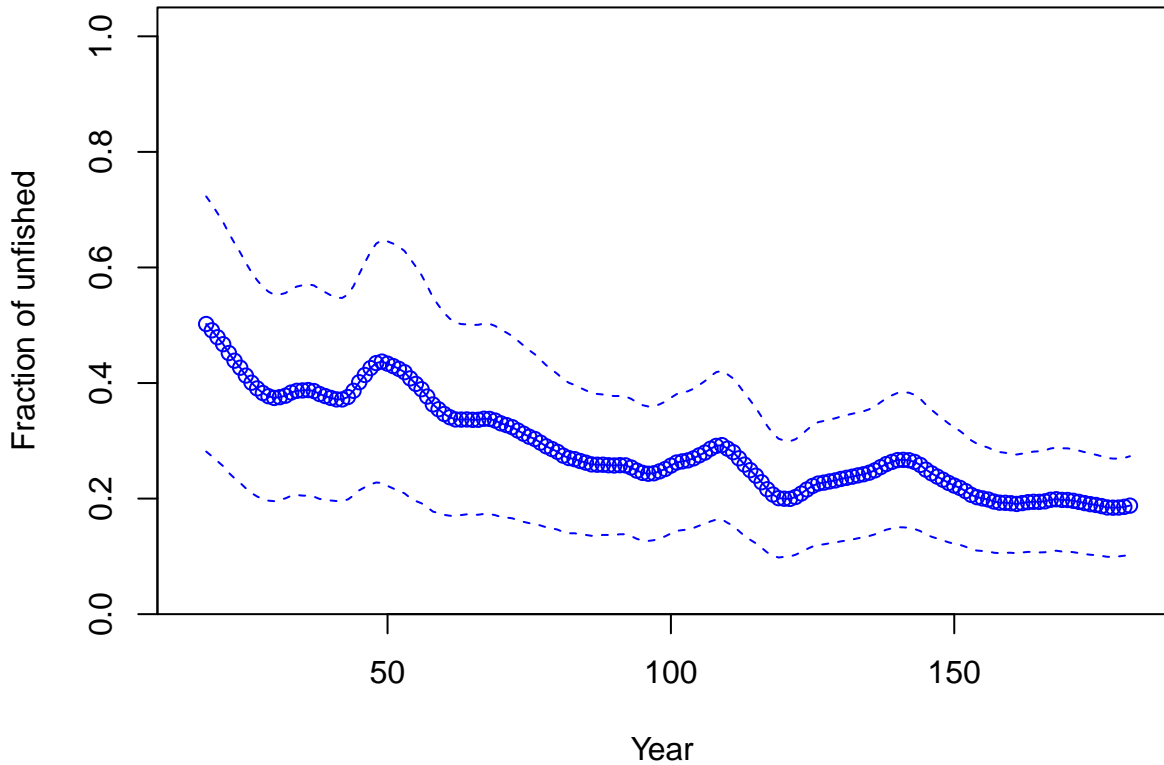
Spawning biomass (mt) with forecast with ~95% asymptotic intervals



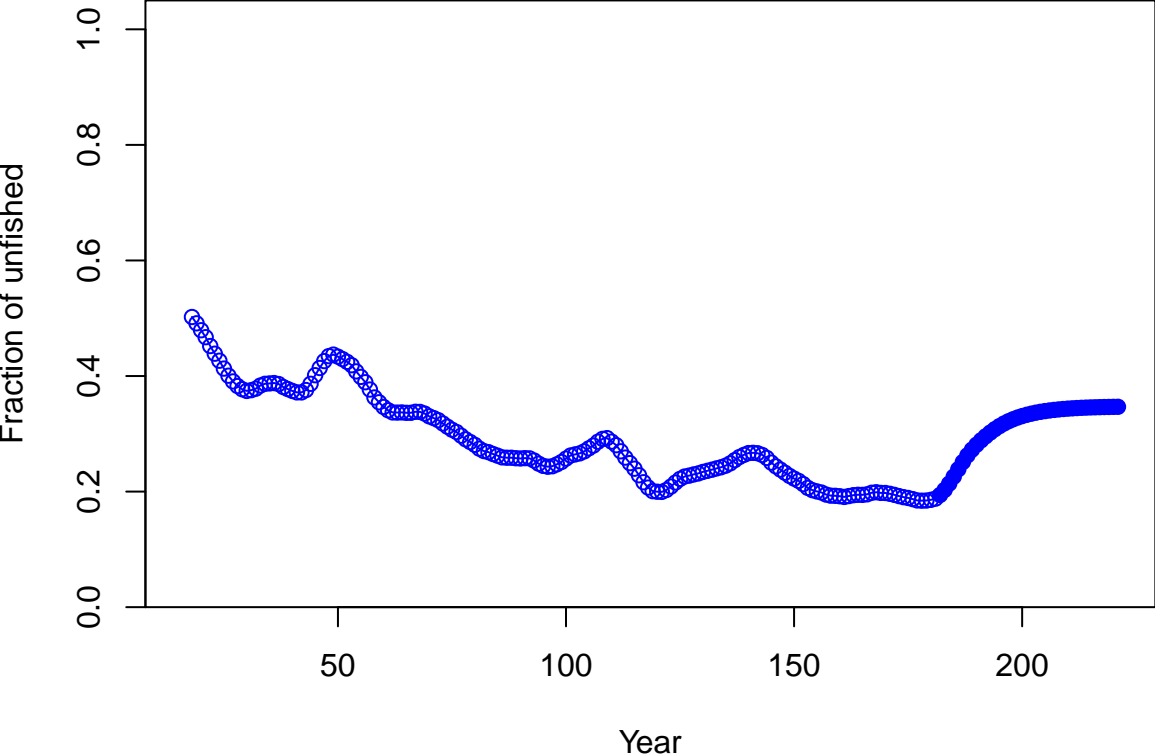
Fraction of unfished



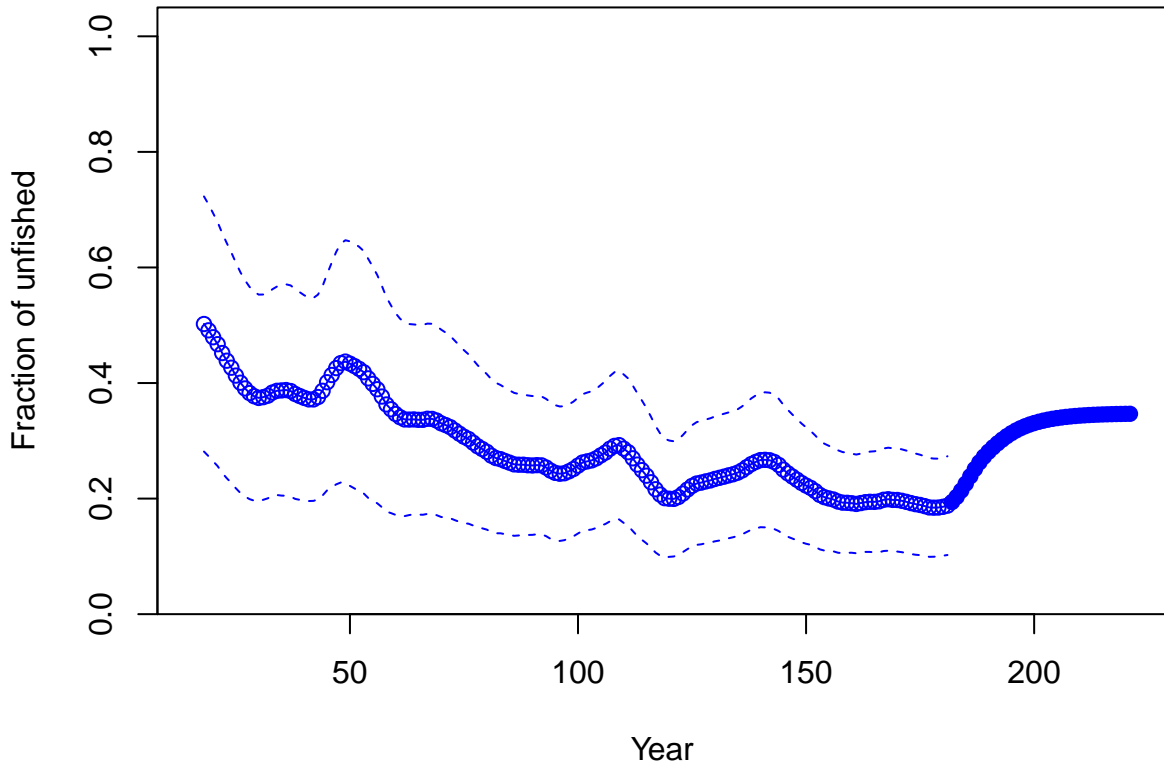
Fraction of unfished with ~95% asymptotic intervals



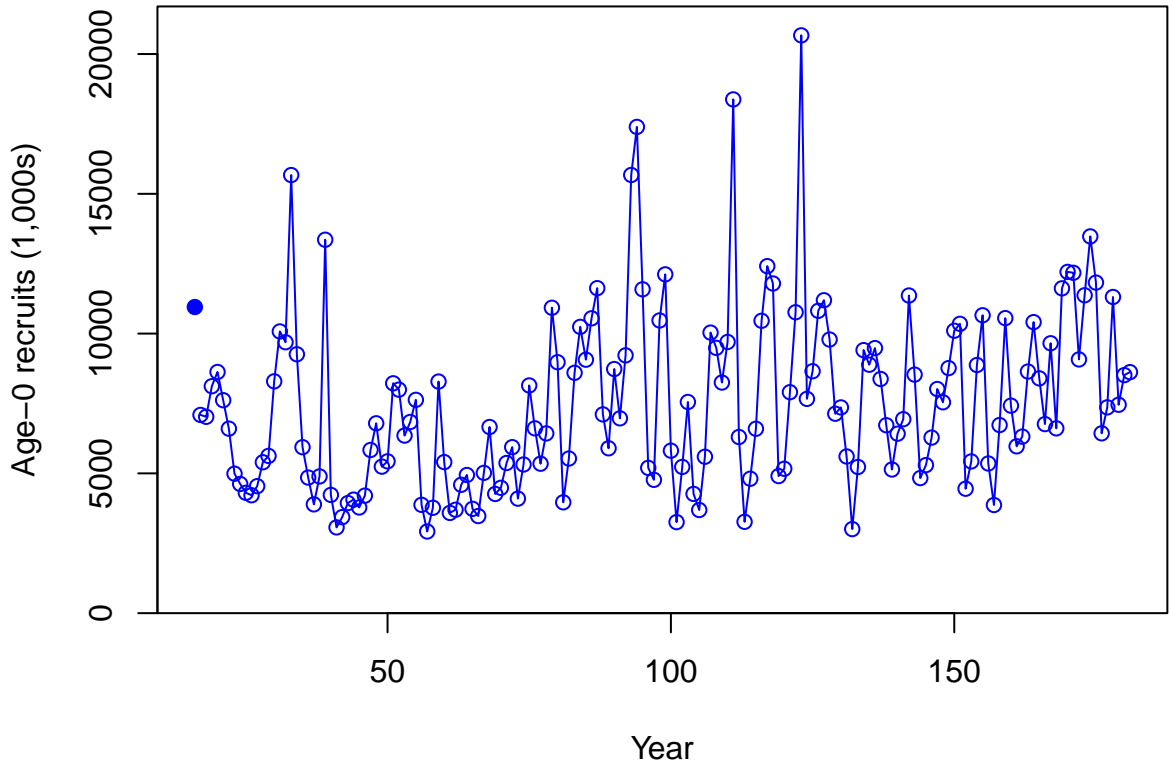
Fraction of unfished with forecast



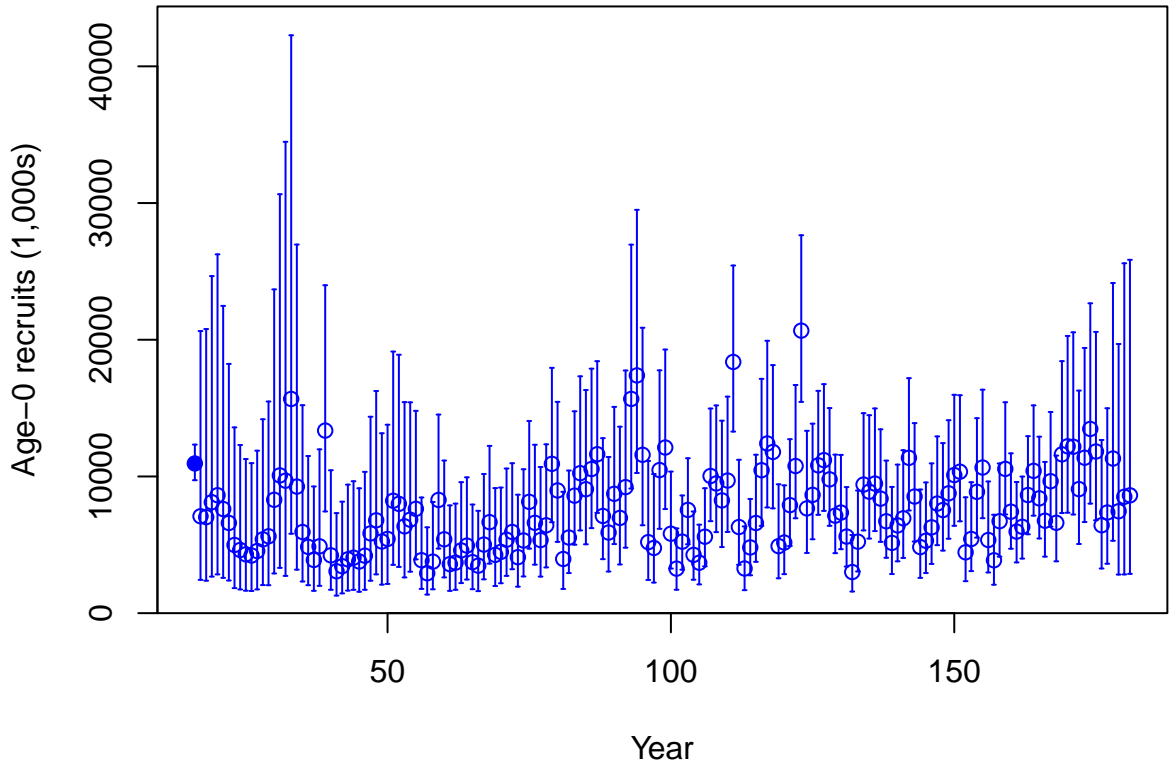
Fraction of unfished with forecast with ~95% asymptotic intervals



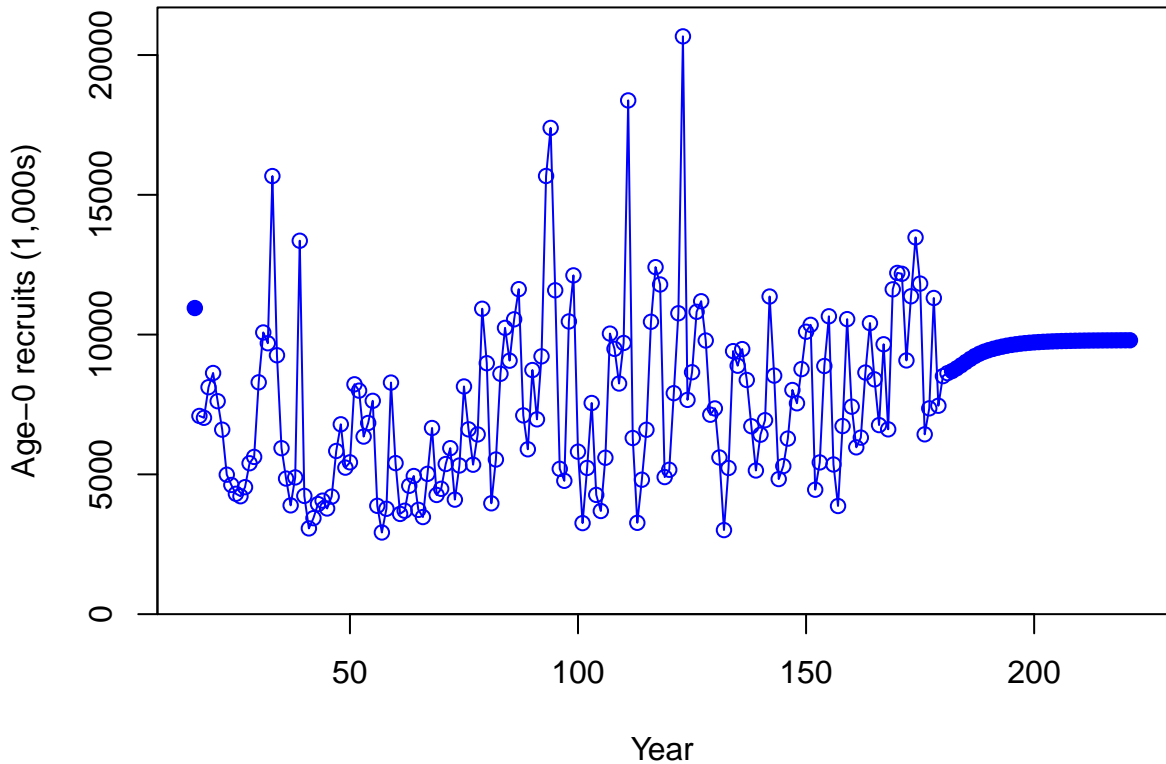
Age-0 recruits (1,000s)



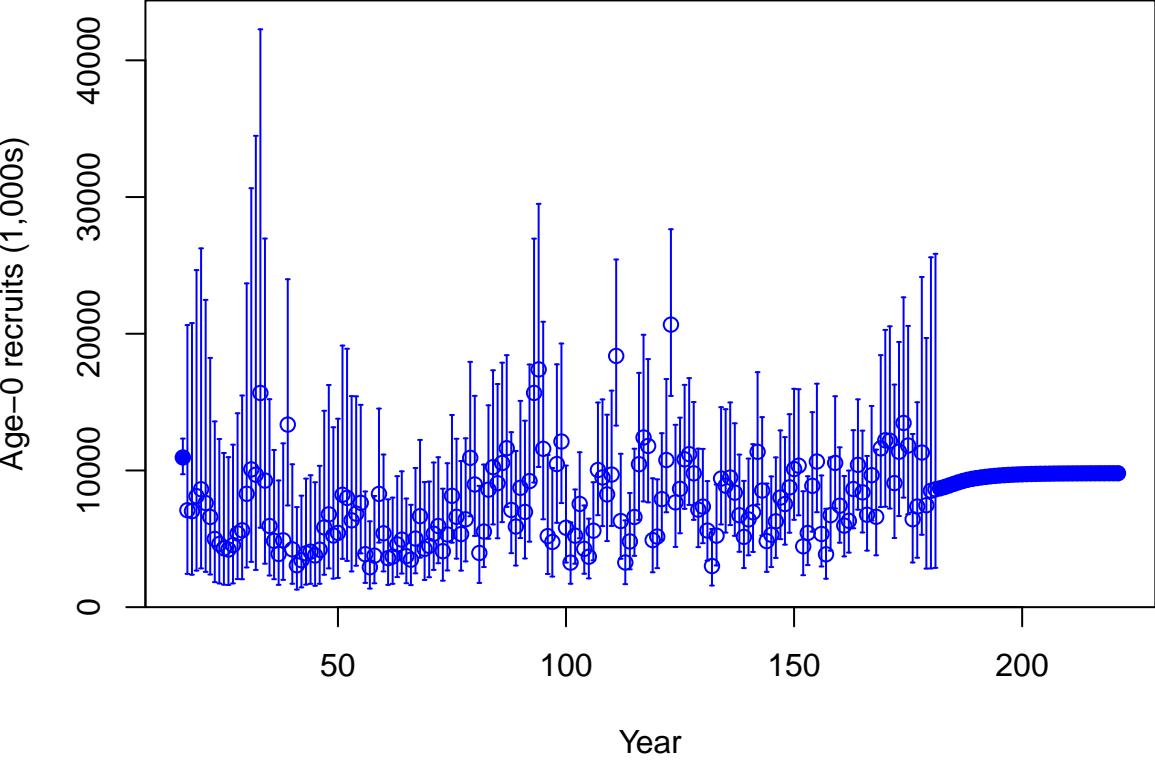
Age-0 recruits (1,000s) with ~95% asymptotic intervals



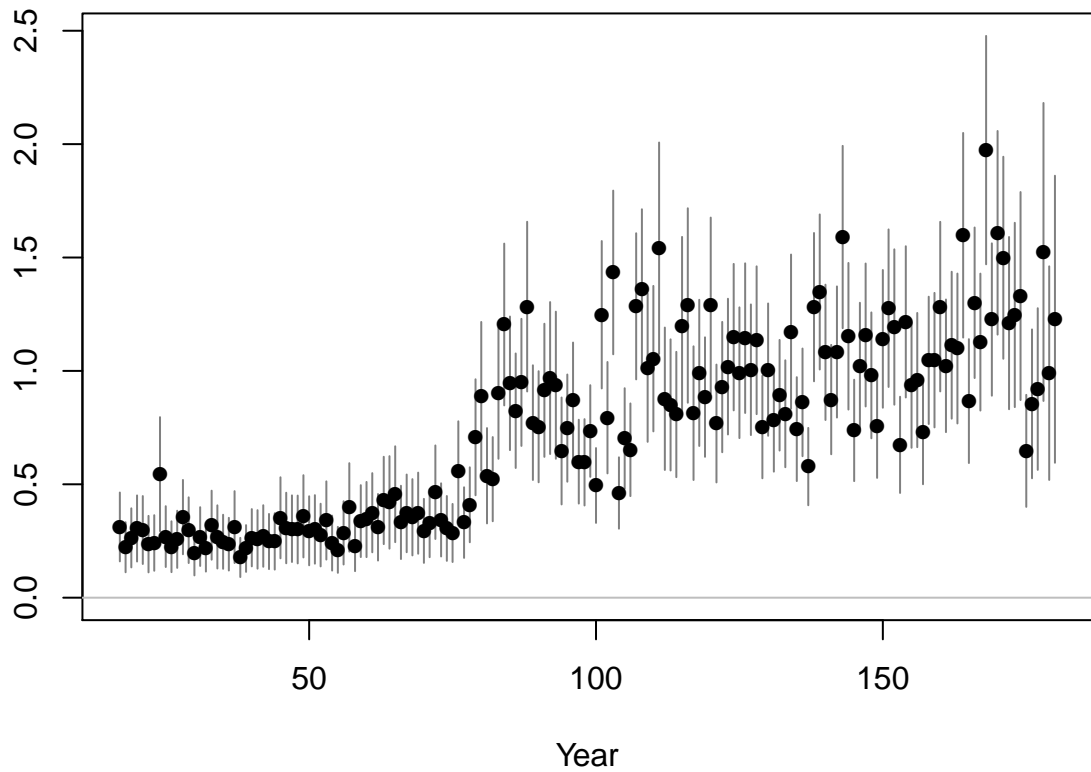
Age-0 recruits (1,000s) with forecast

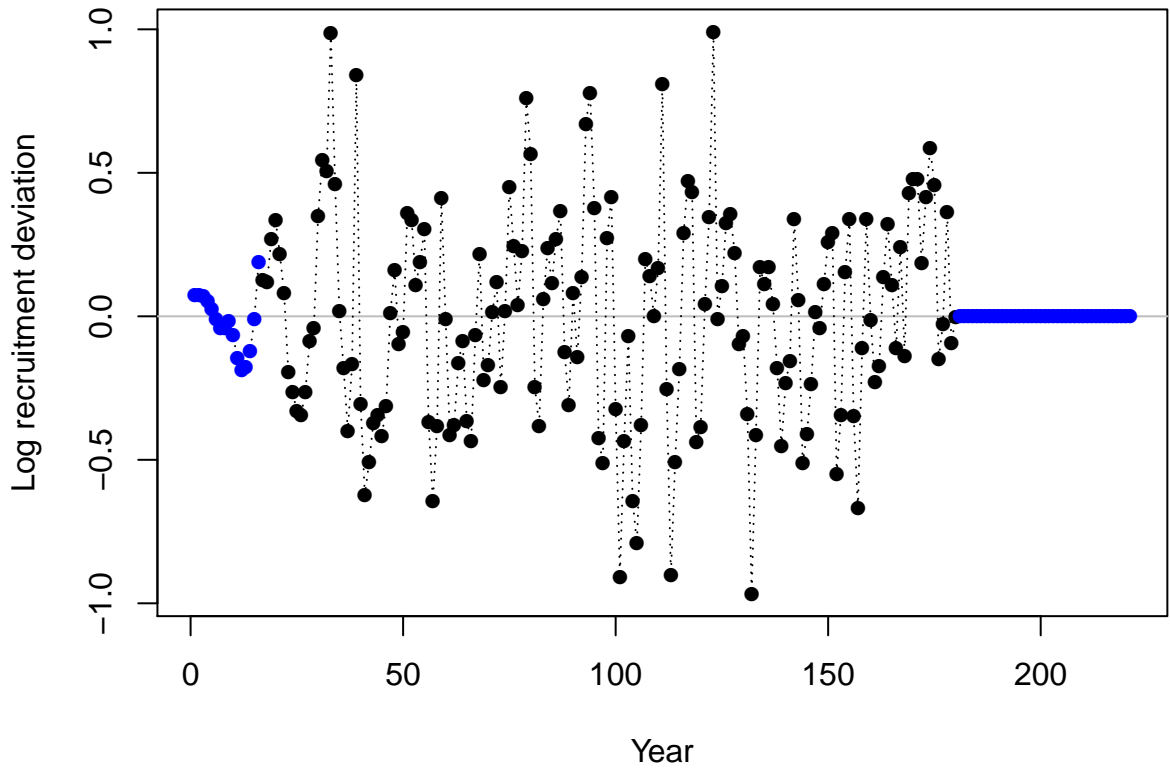


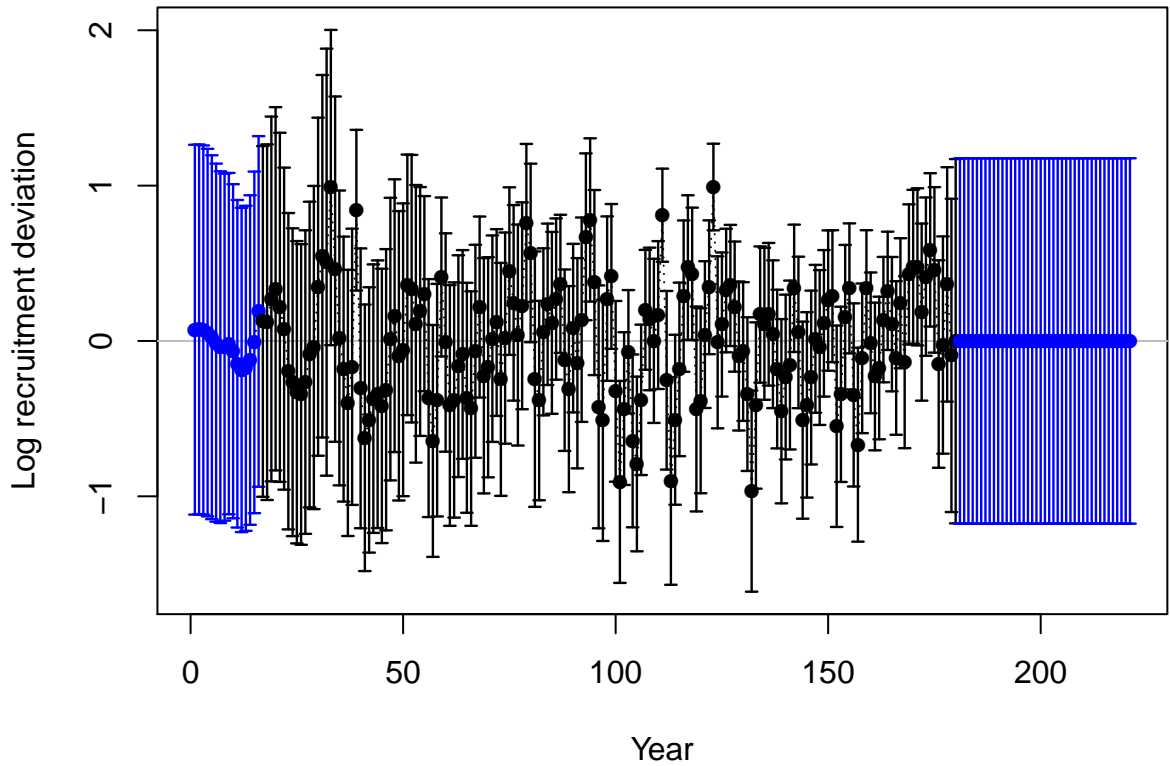
Age-0 recruits (1,000s) with forecast with ~95% asymptotic intervals



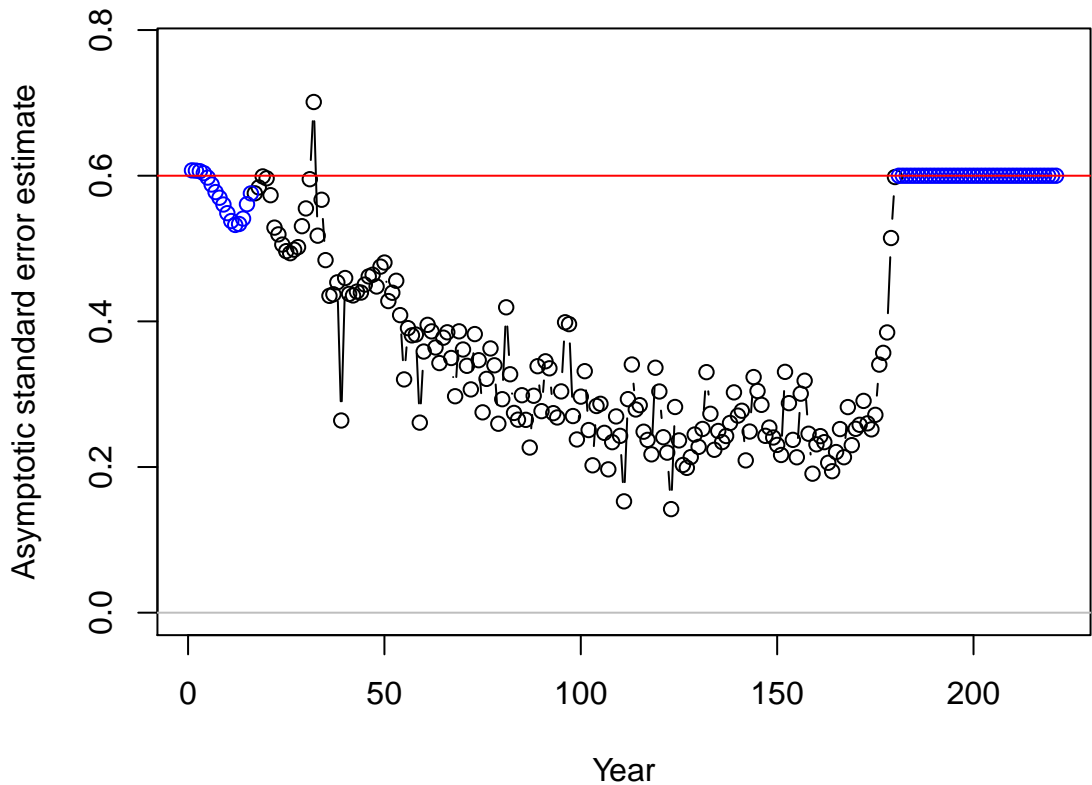
Summary Fishing Mortality

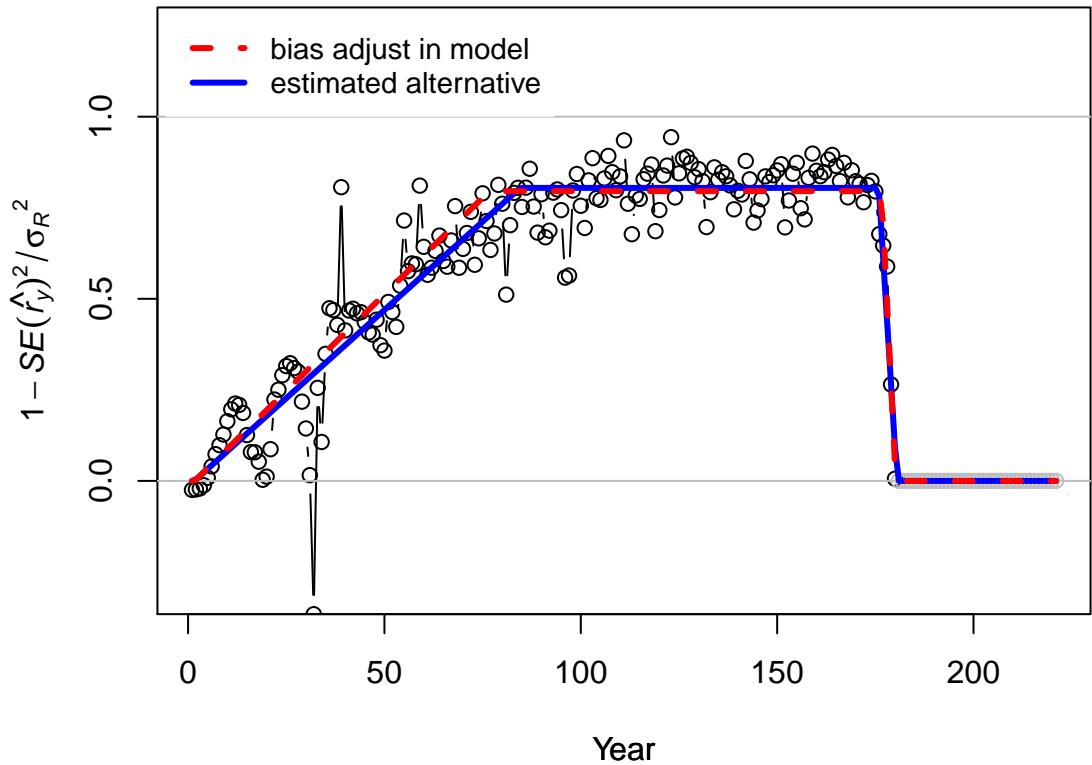


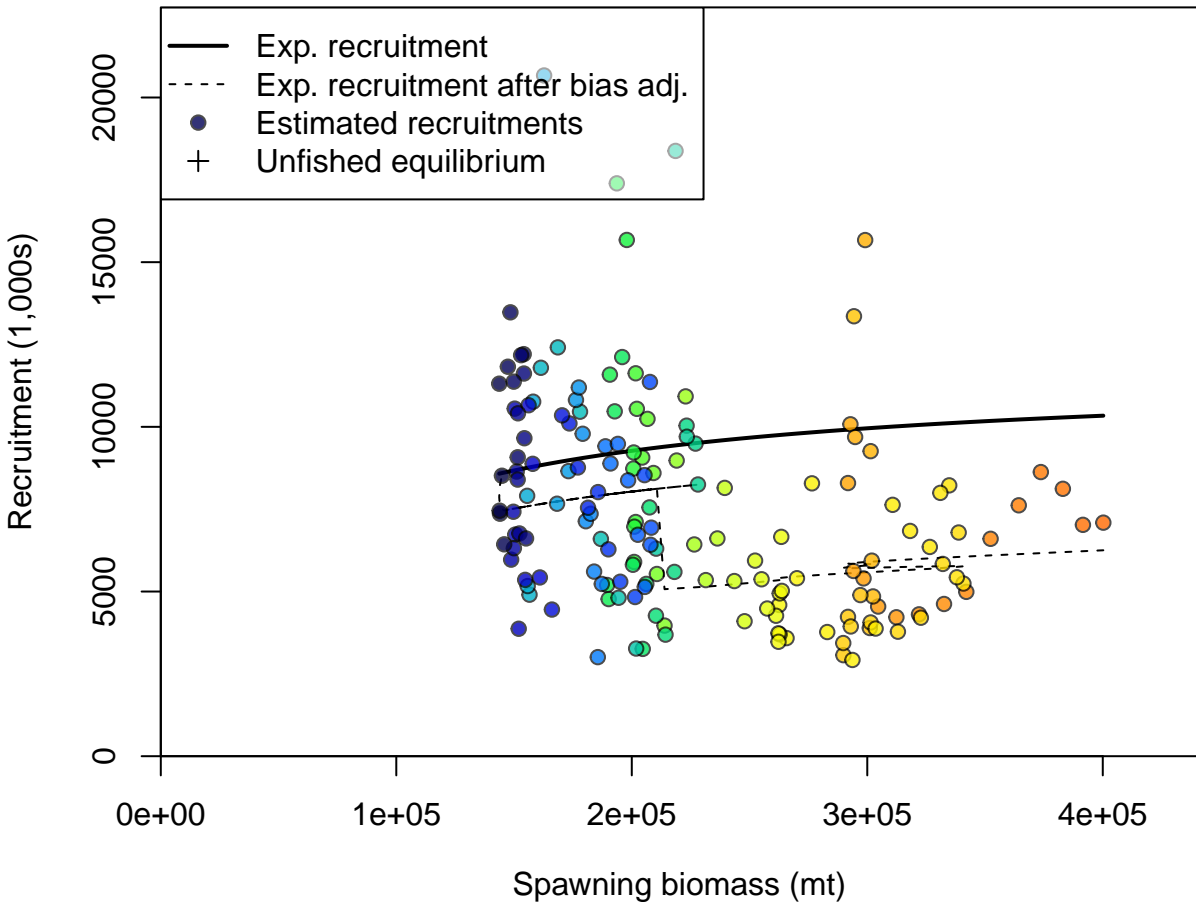


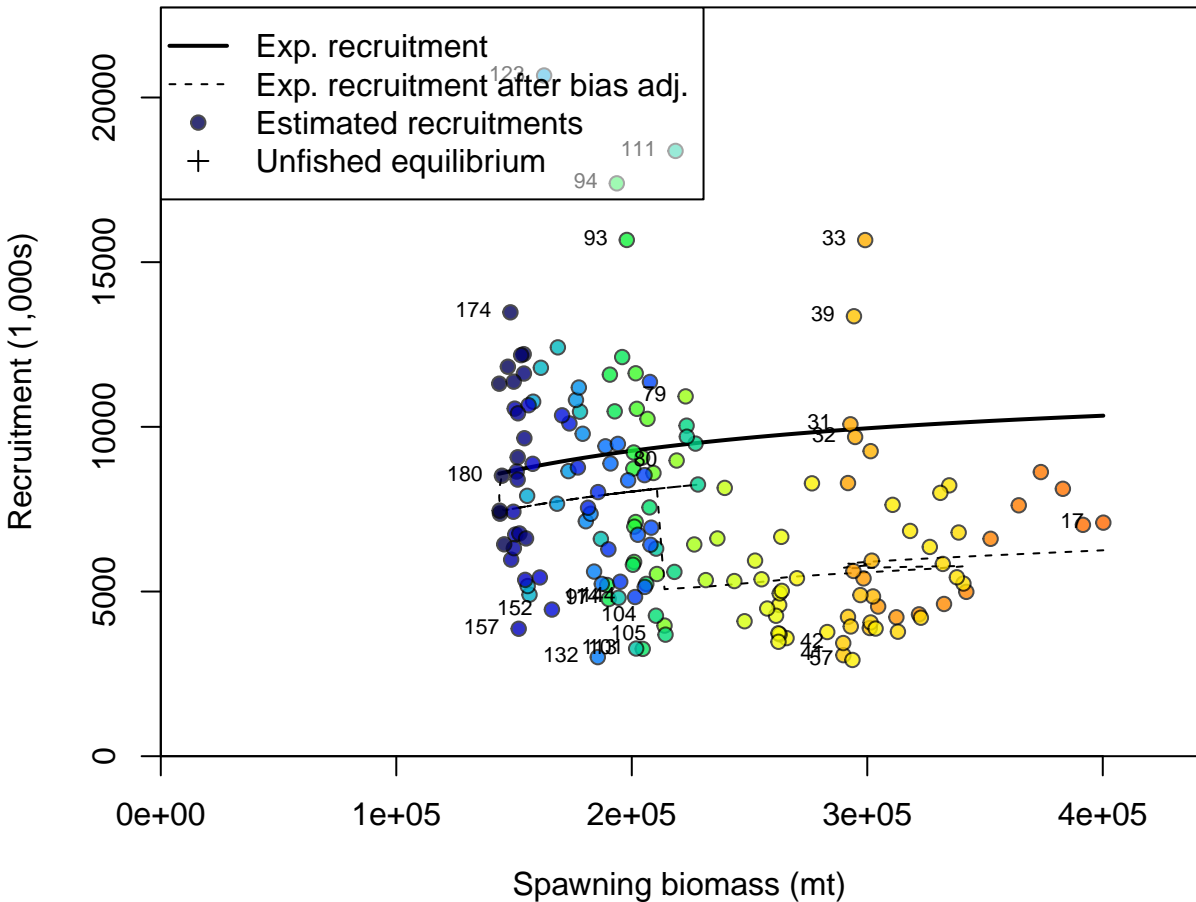


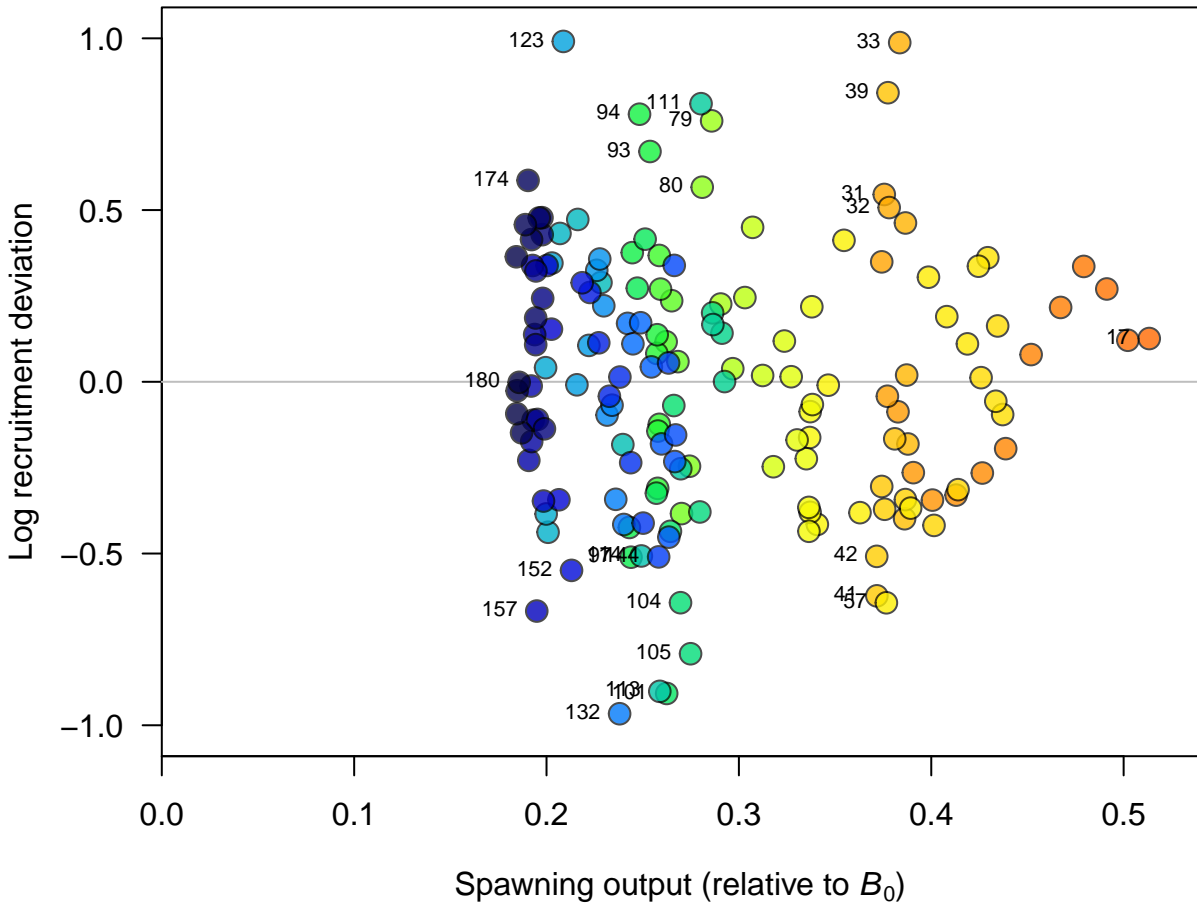
Recruitment deviation variance

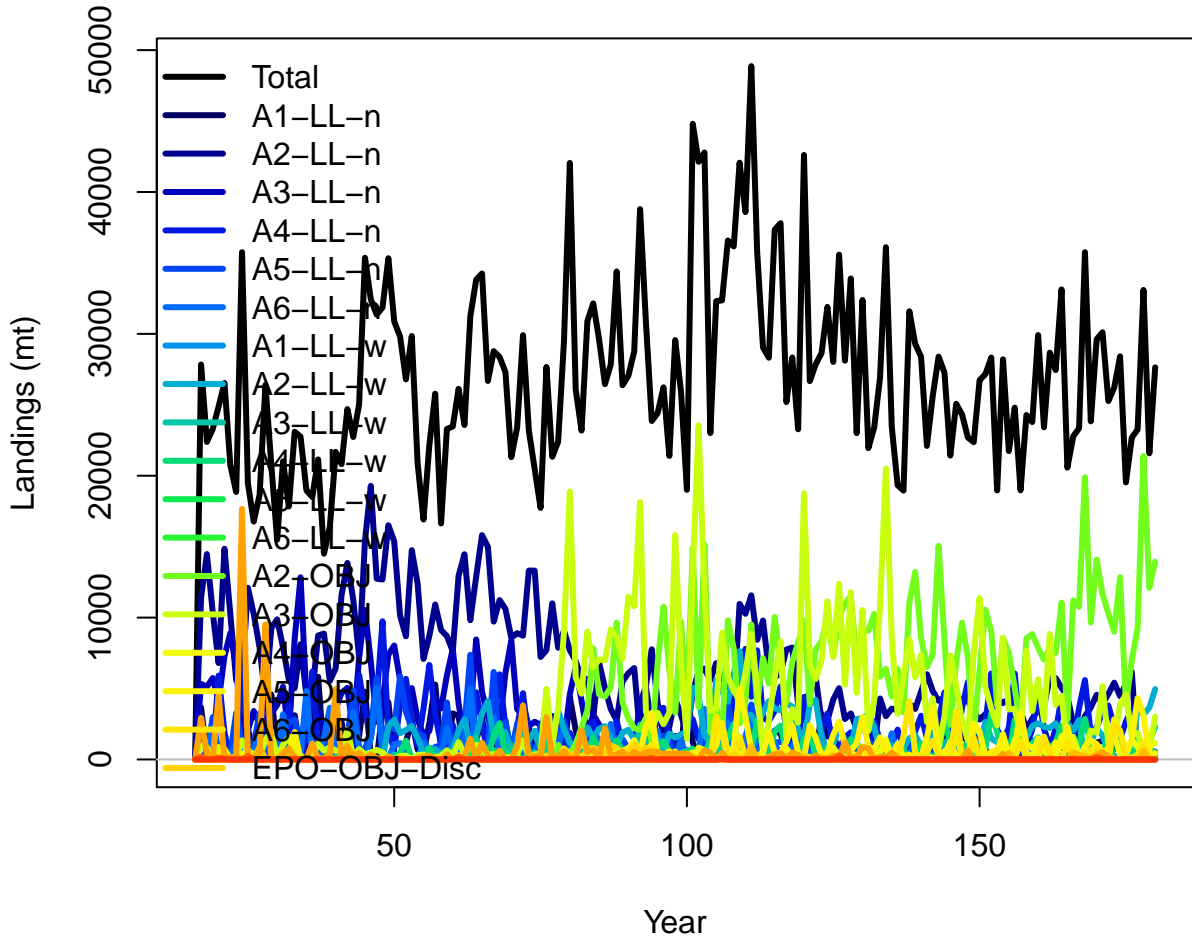


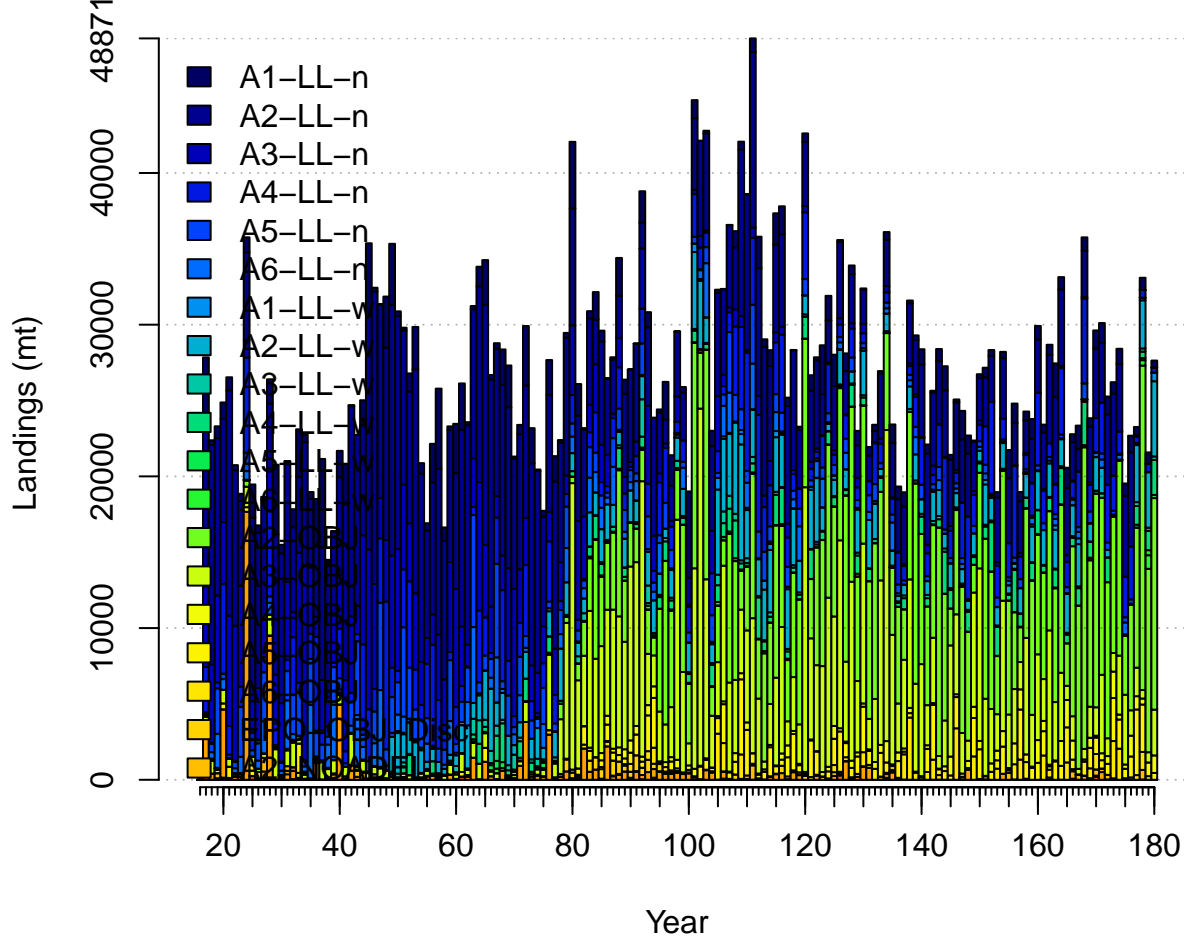




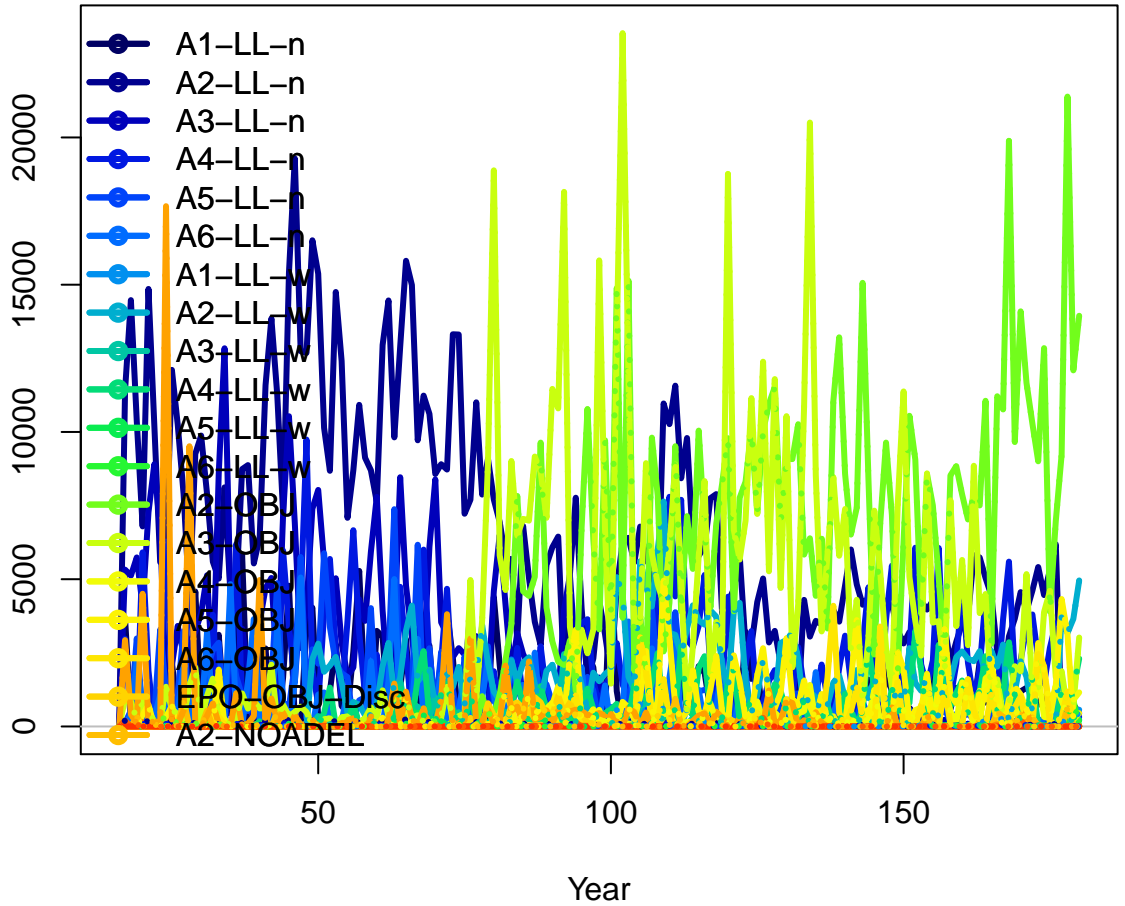




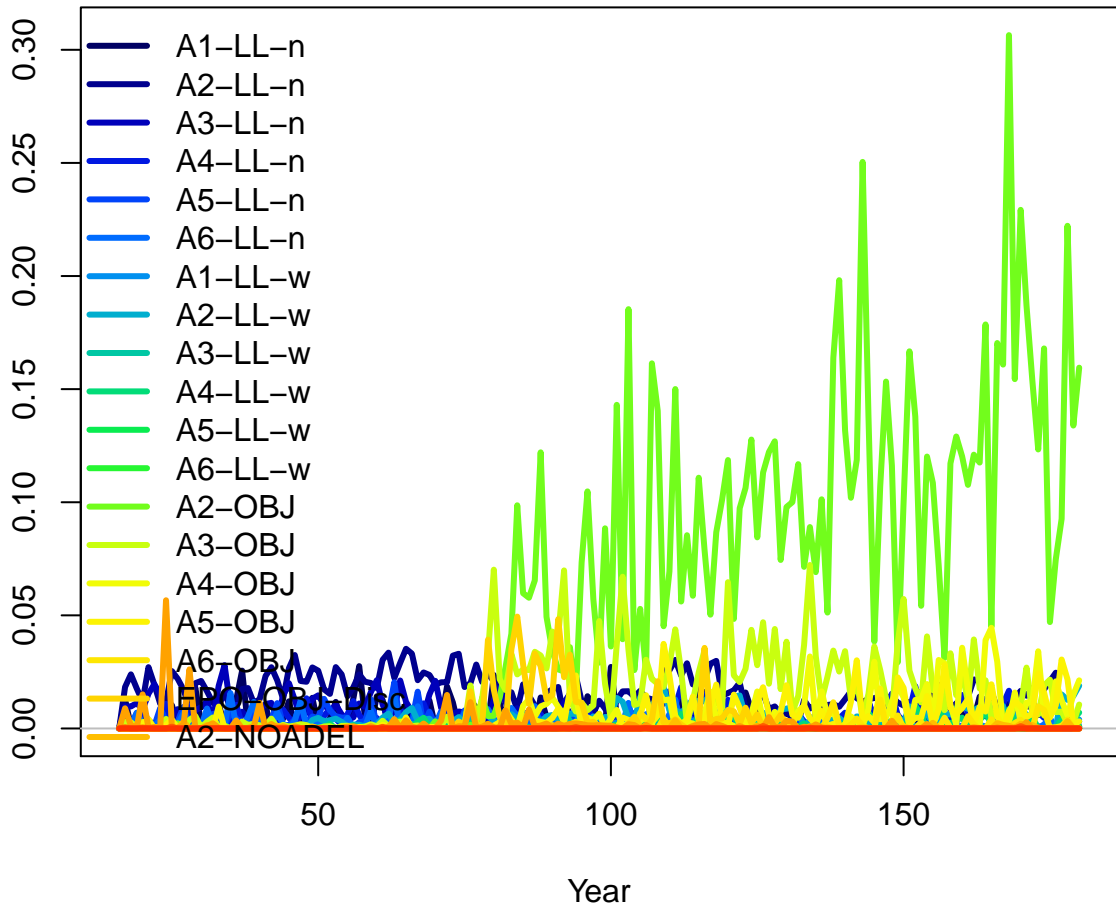


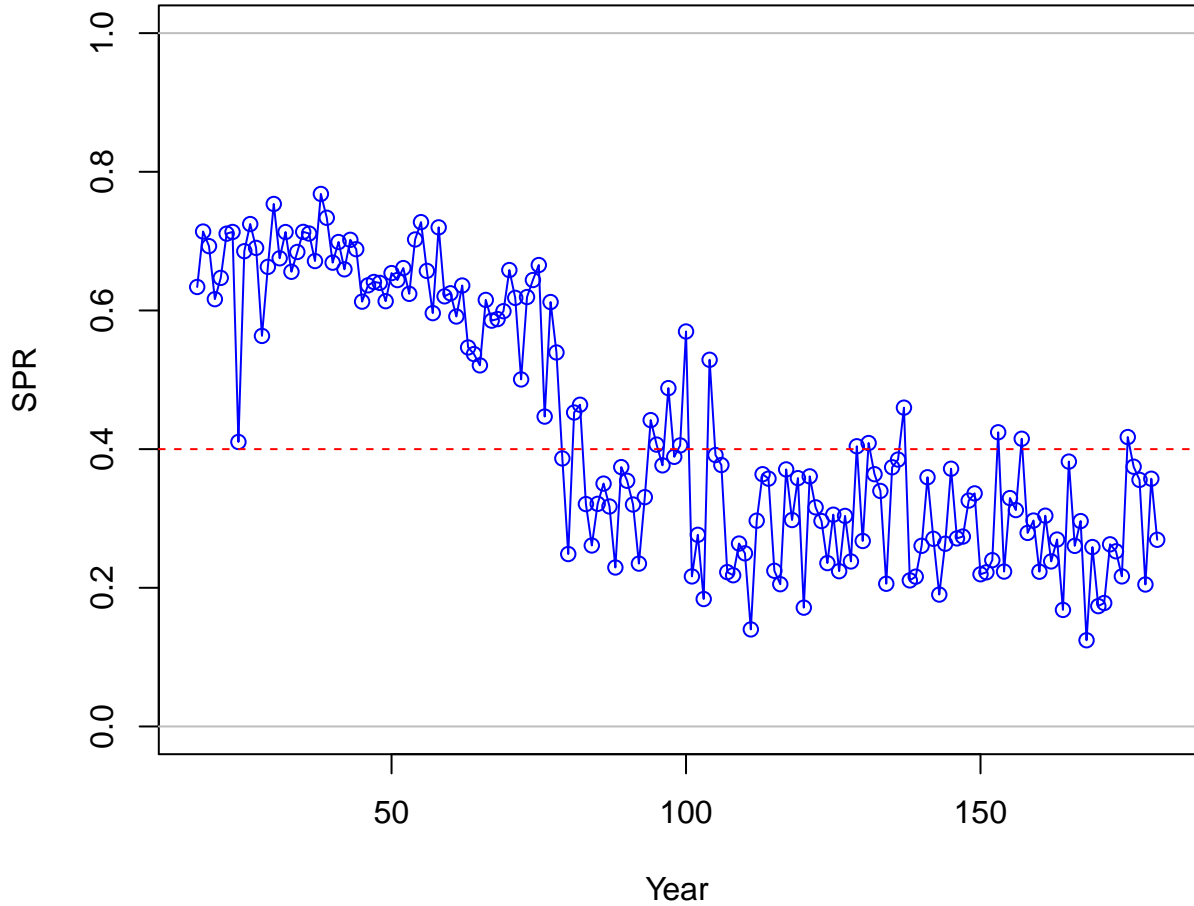


Observed and expected Landings (mt)



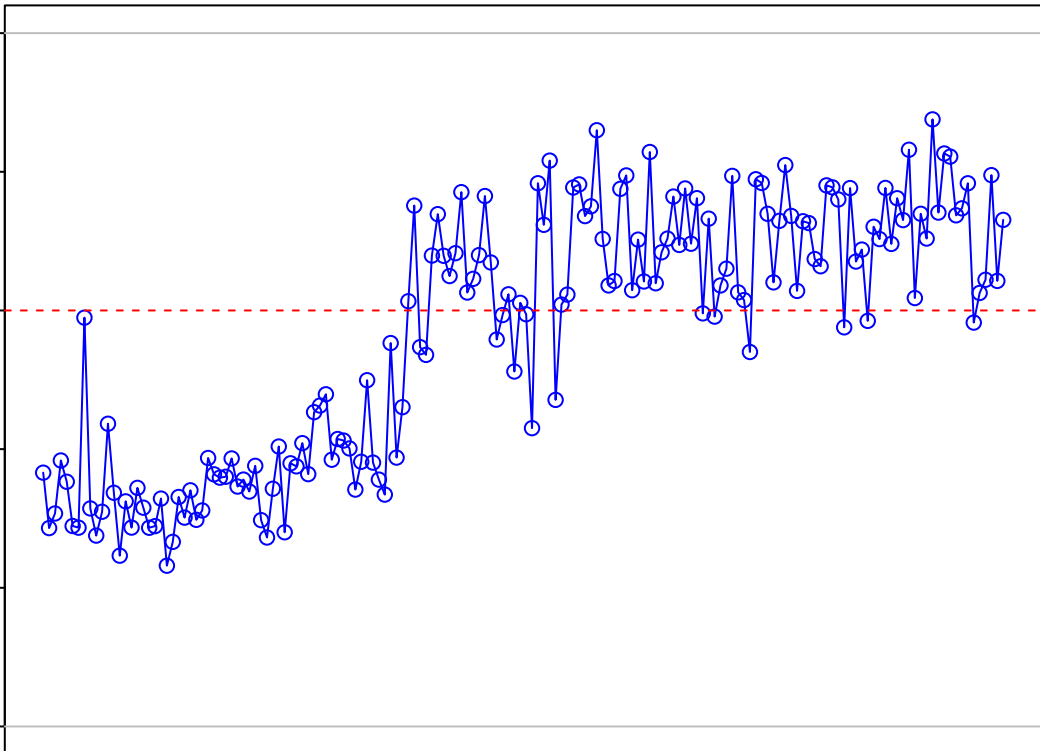
Continuous F





1-SPR

1.0
0.8
0.6
0.4
0.2
0.0

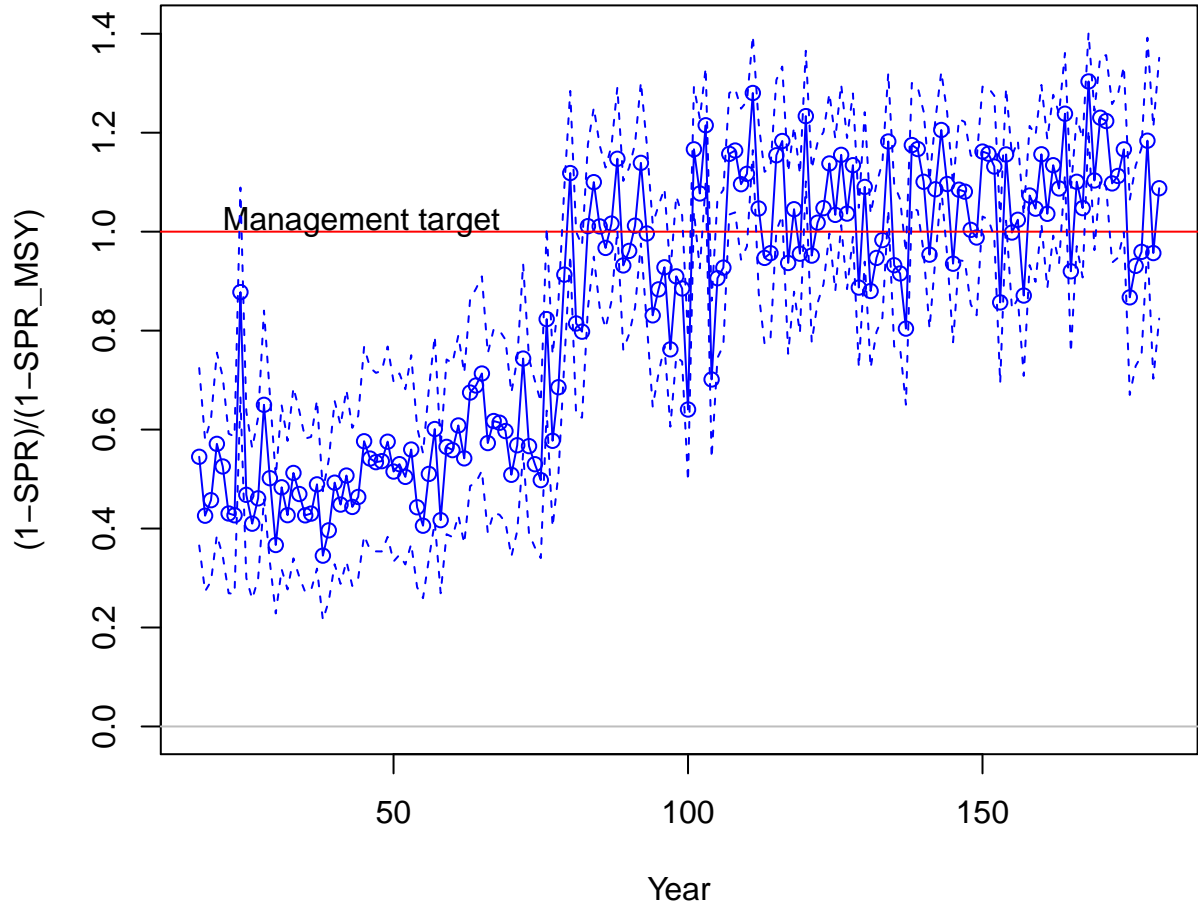


Year

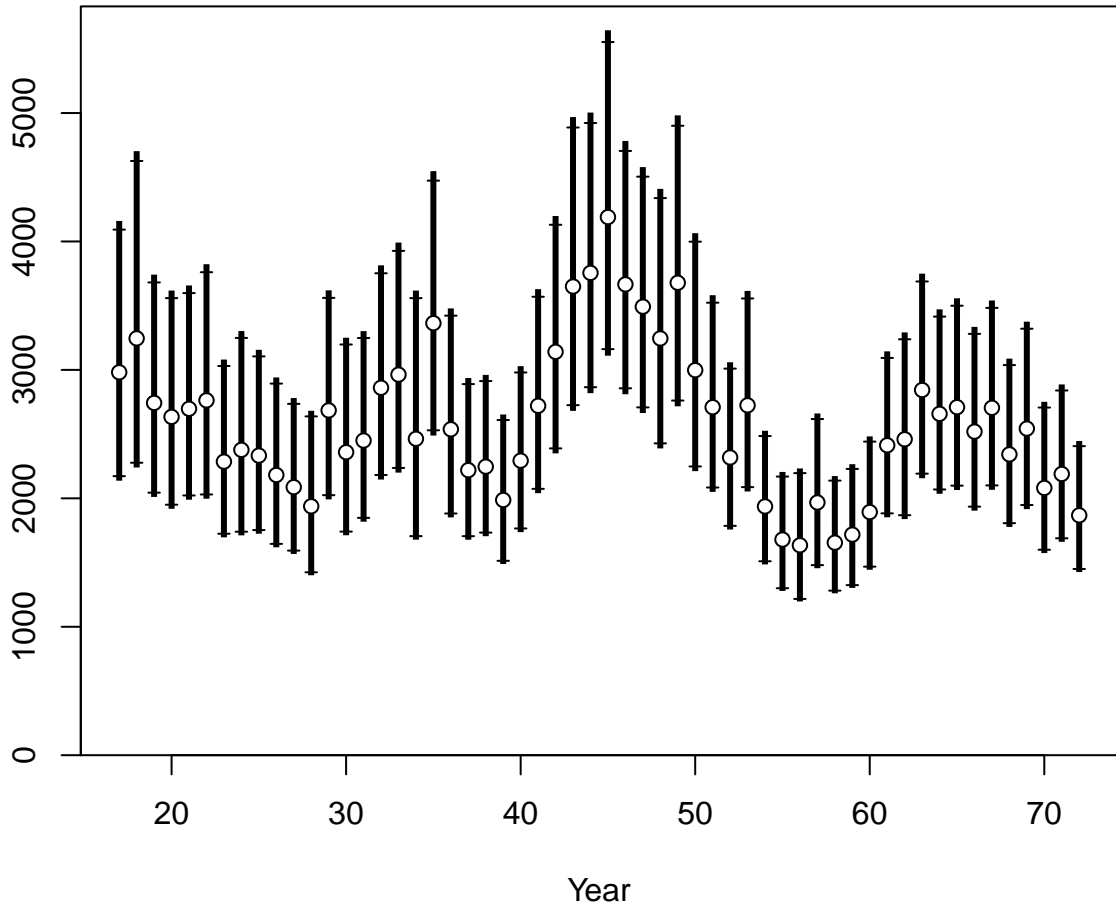
50

100

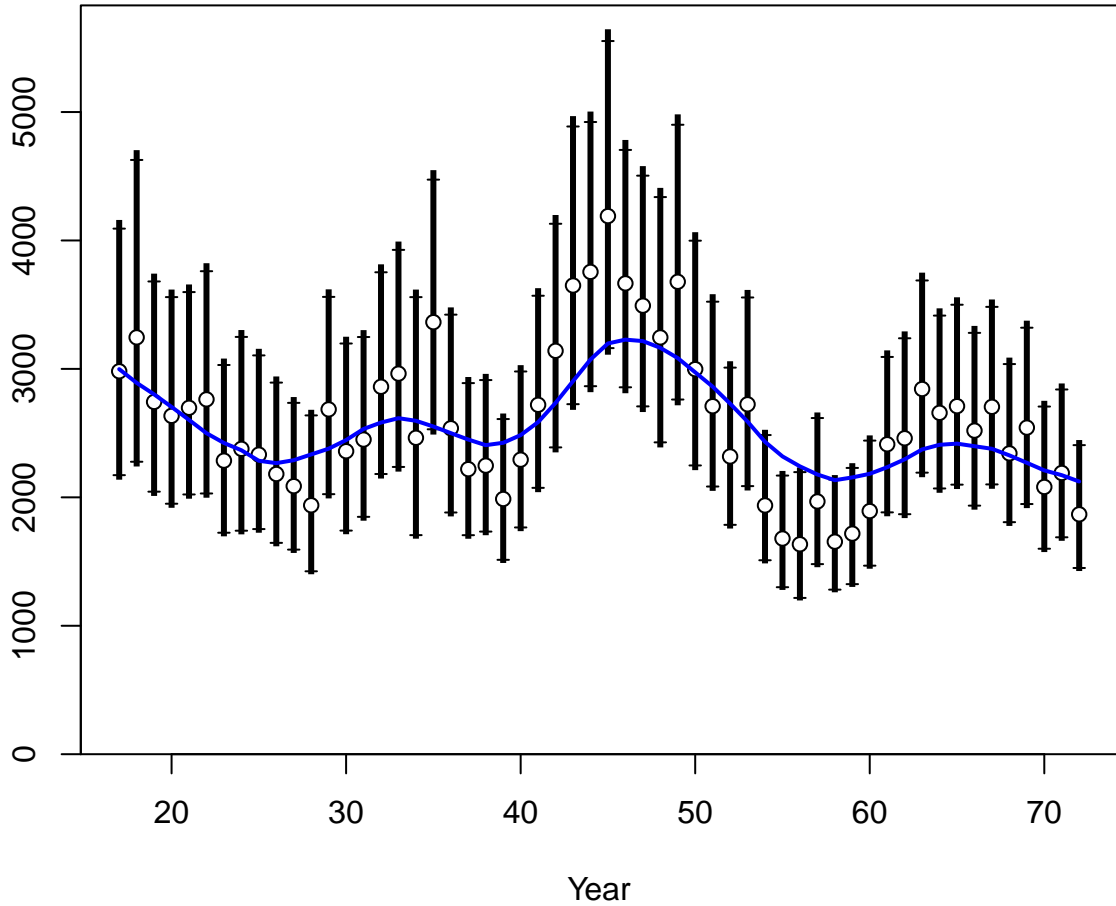
150



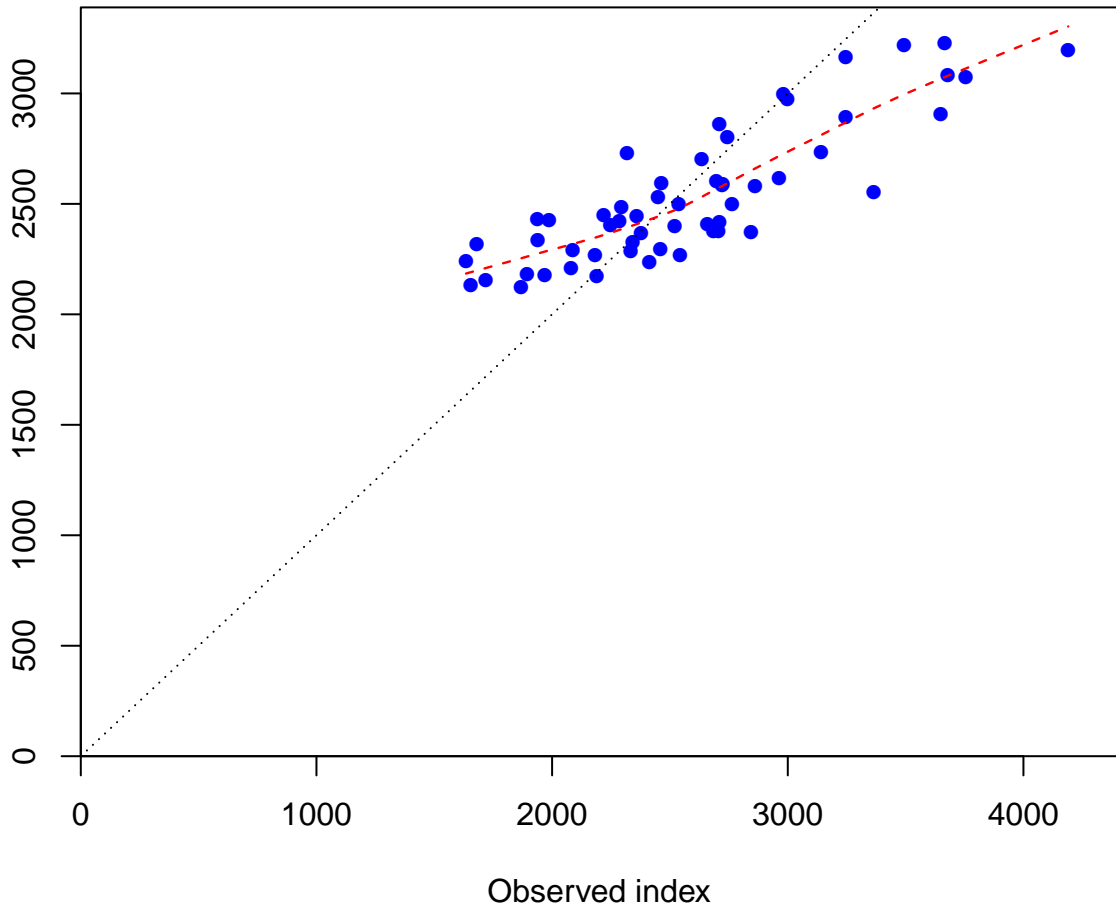
Index



Index



Expected index



Observed index

Log index

8.5

8.0

7.5

20

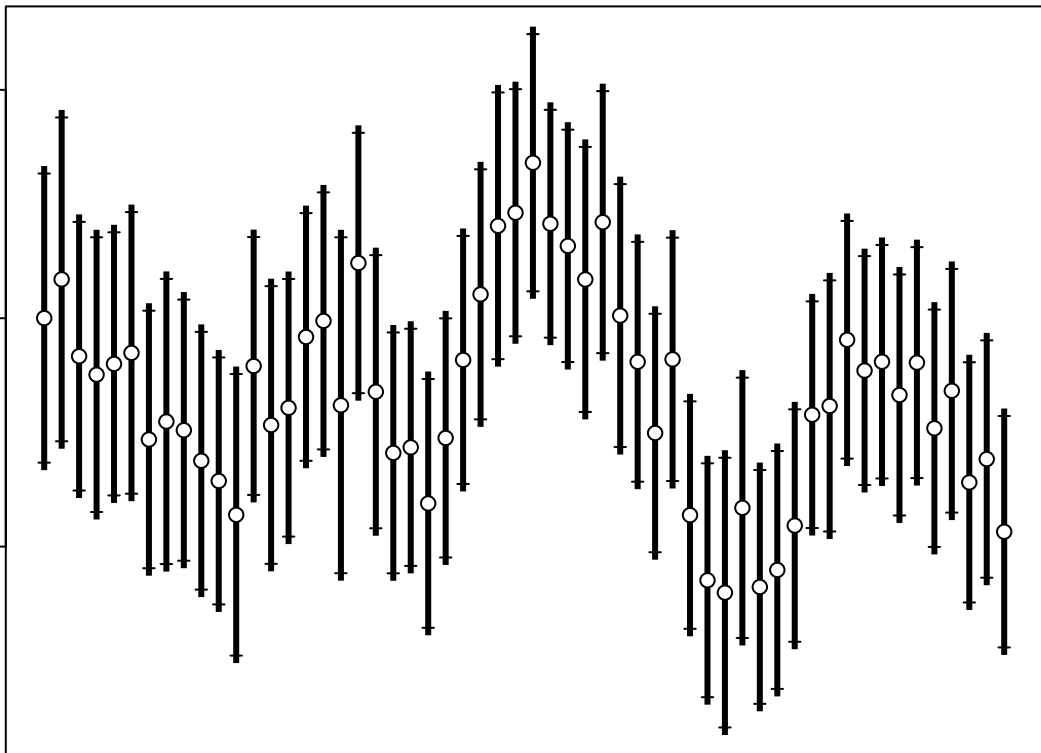
30

40

60

70

Year



Log index

8.5

8.0

7.5

20

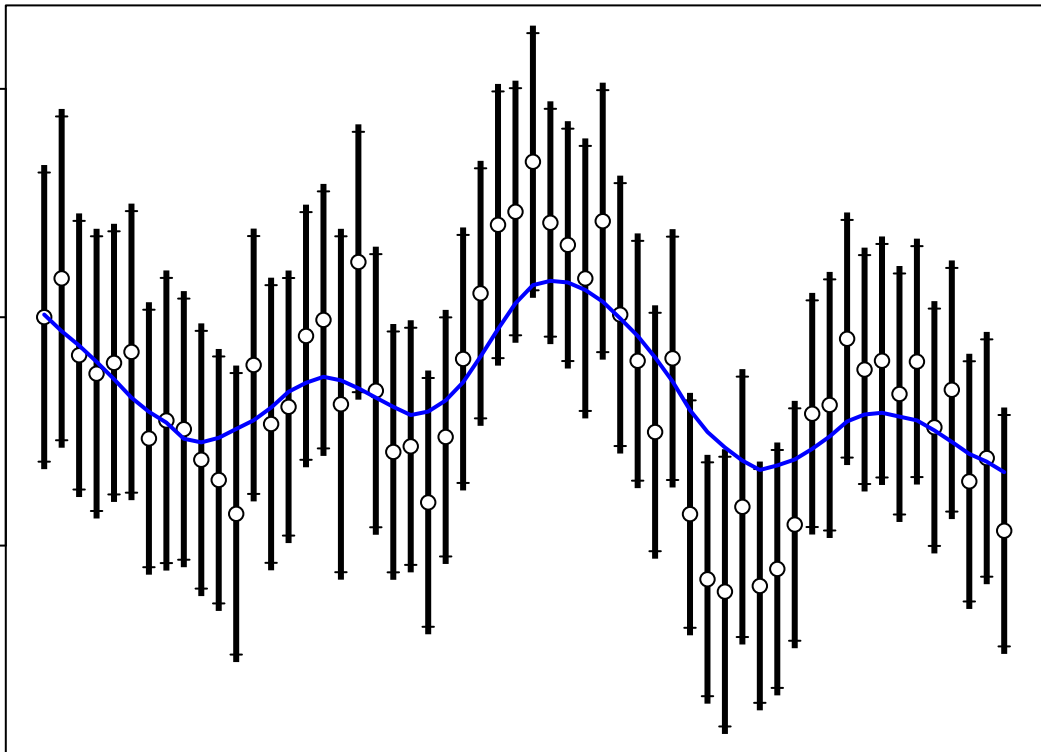
30

40

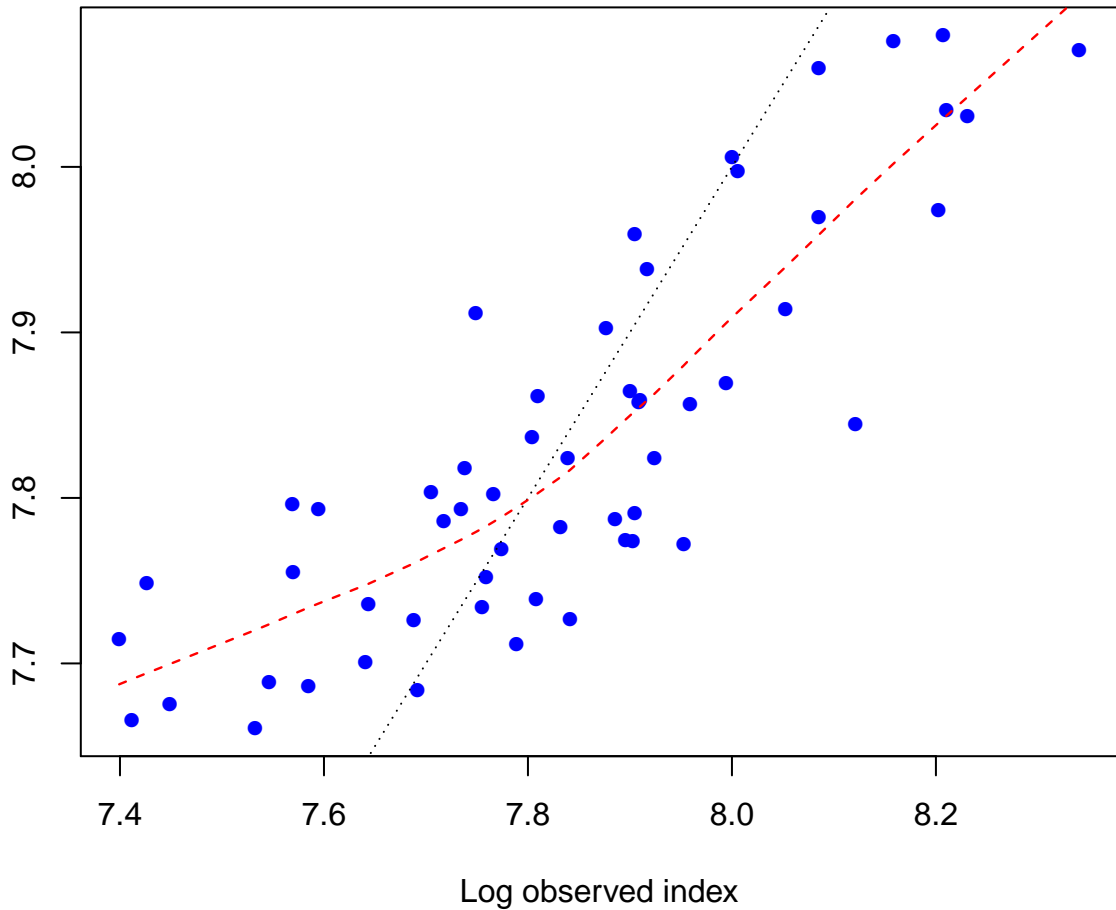
60

70

Year



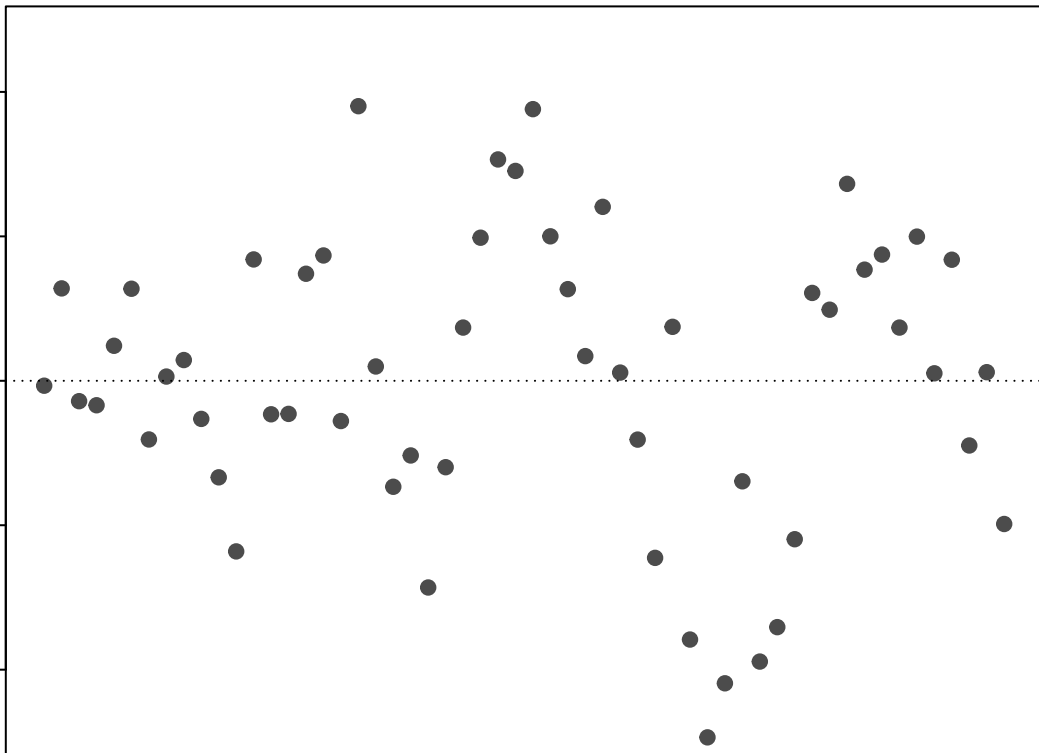
Log expected index



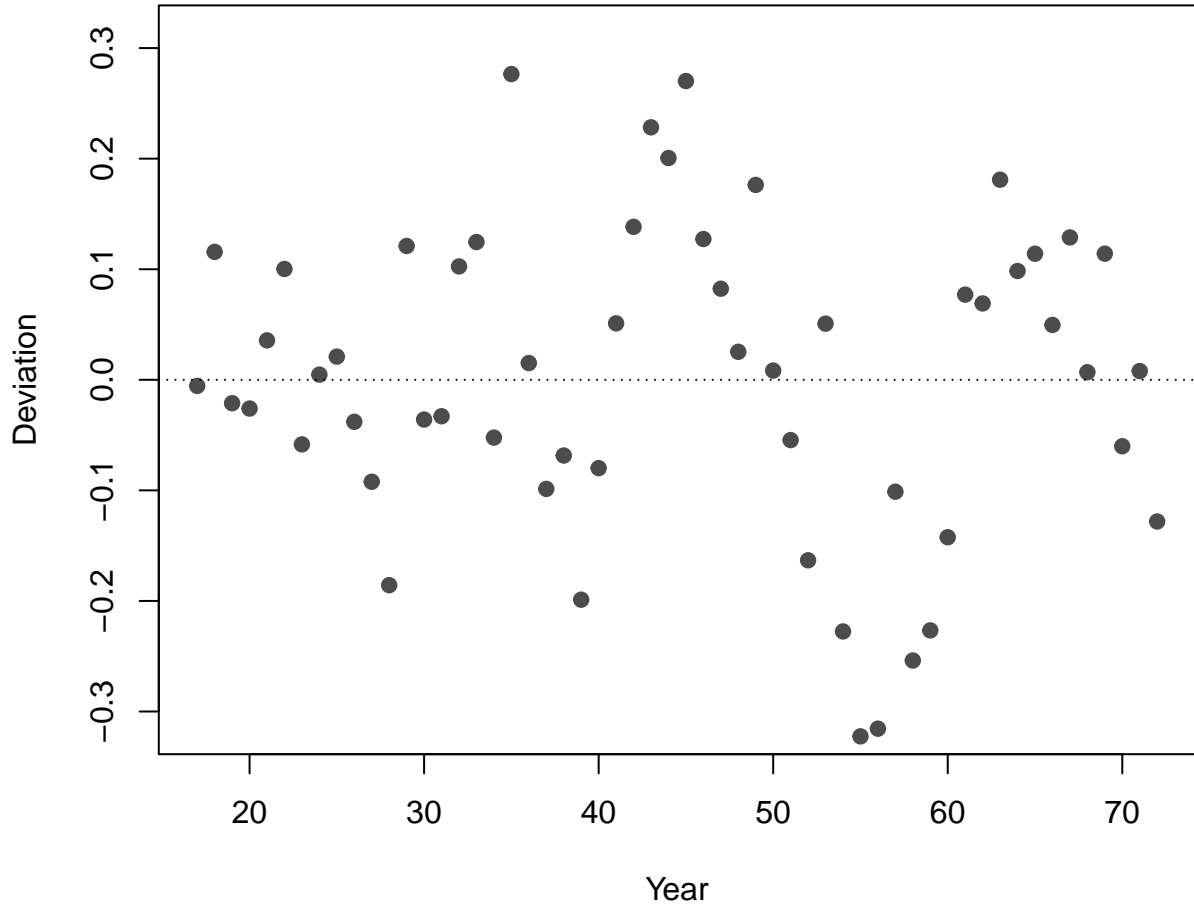
Log observed index

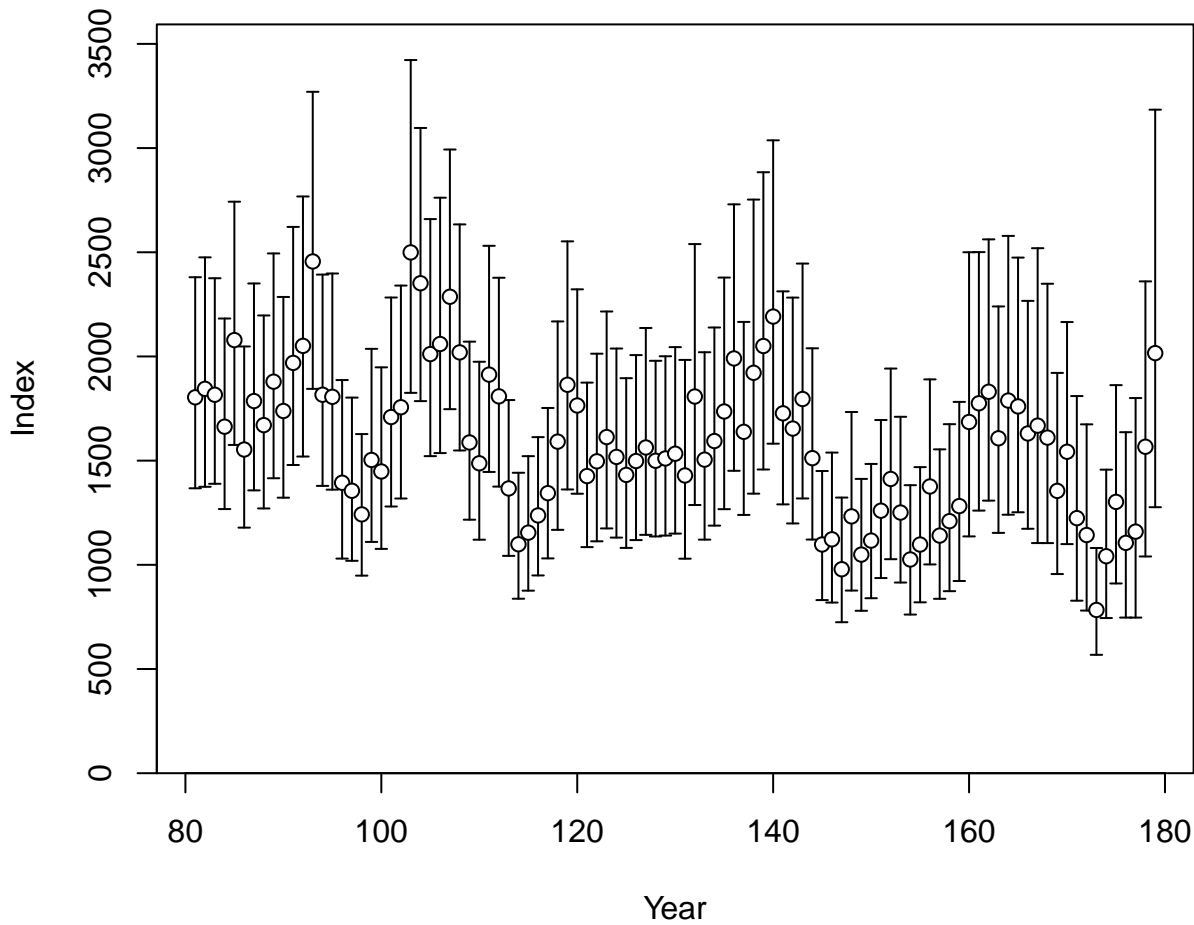
Residual

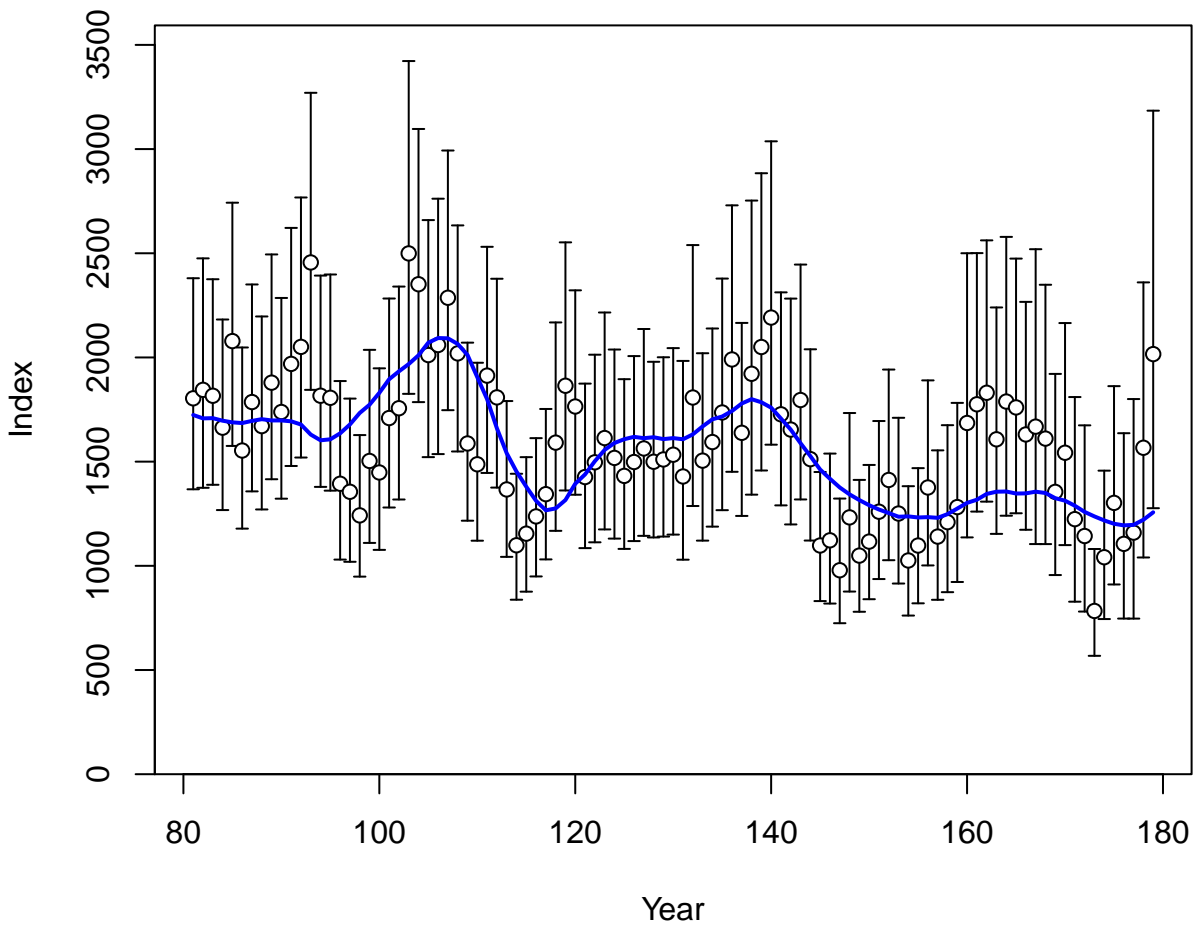
2
1
0
-1
-2



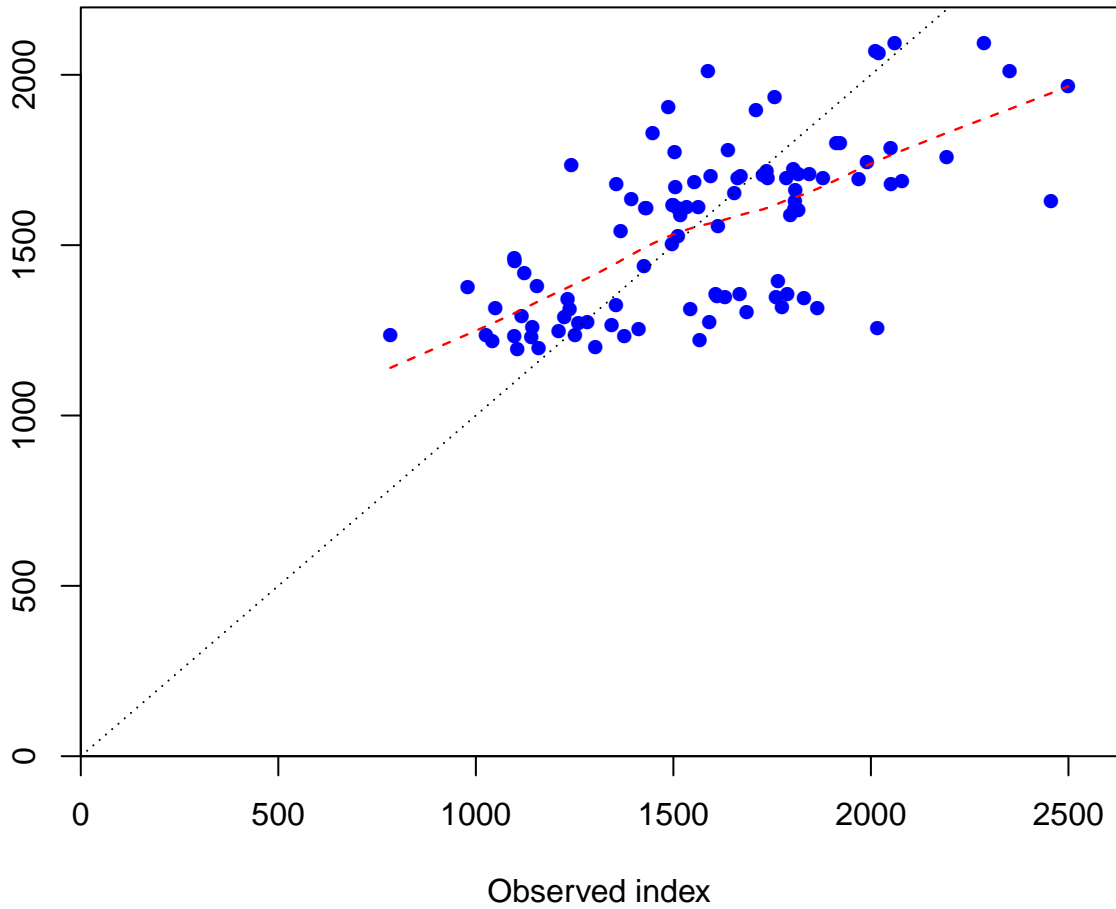
Year







Expected index



Log index

8.0
7.5
7.0
6.5

80

100

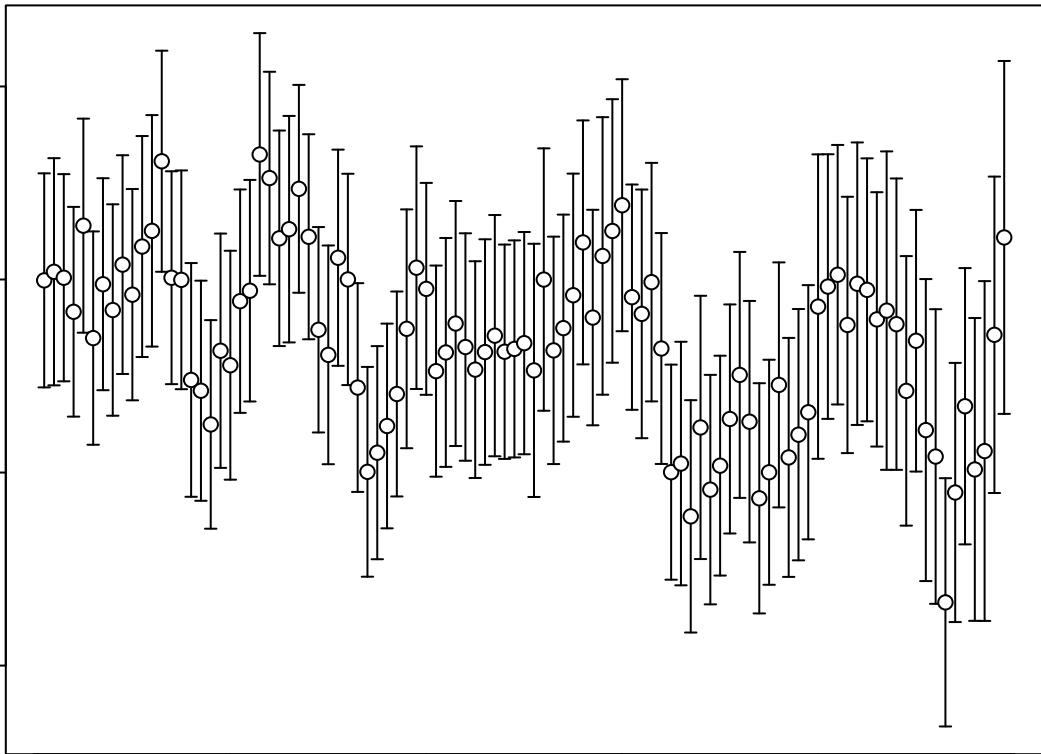
120

140

160

180

Year



Log index

8.0
7.5
7.0
6.5

80

100

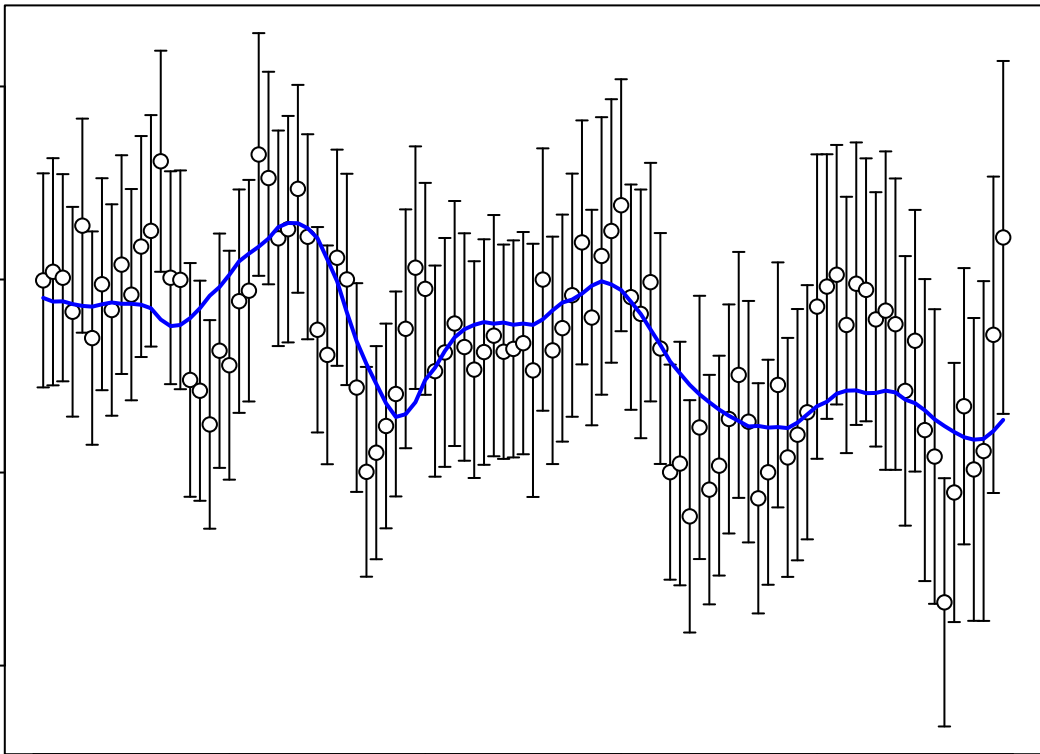
120

140

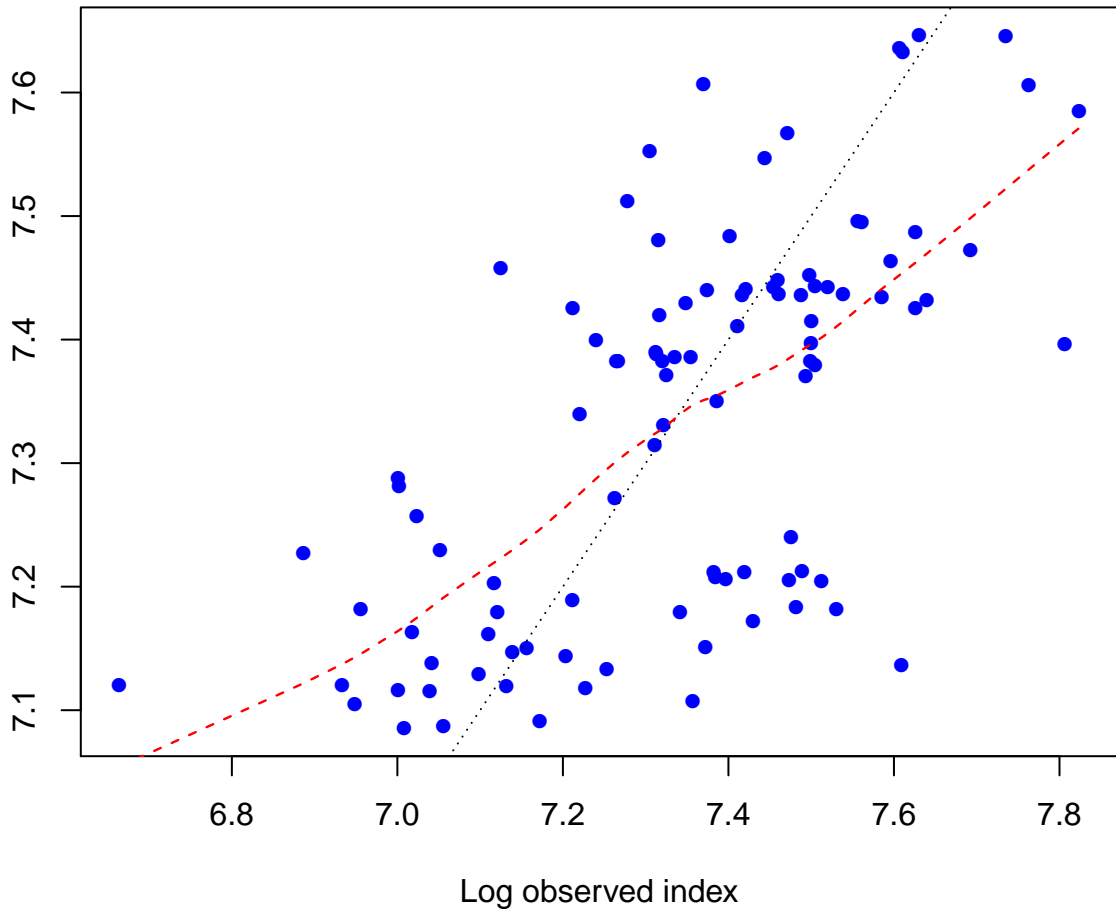
160

180

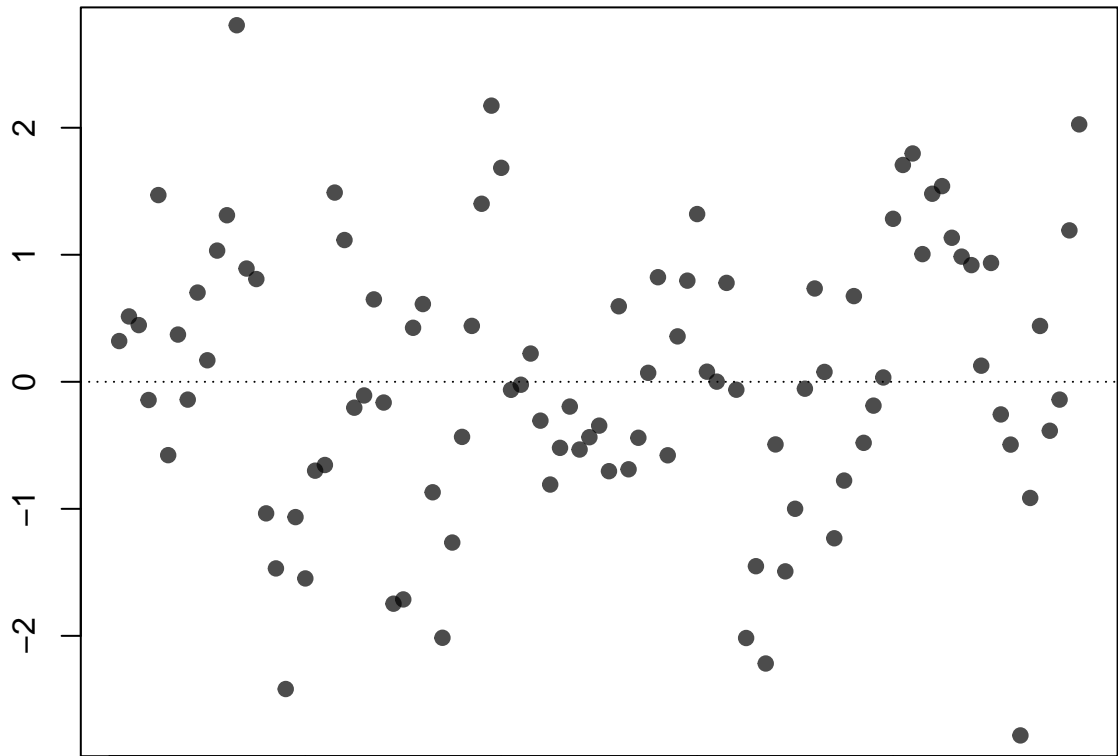
Year



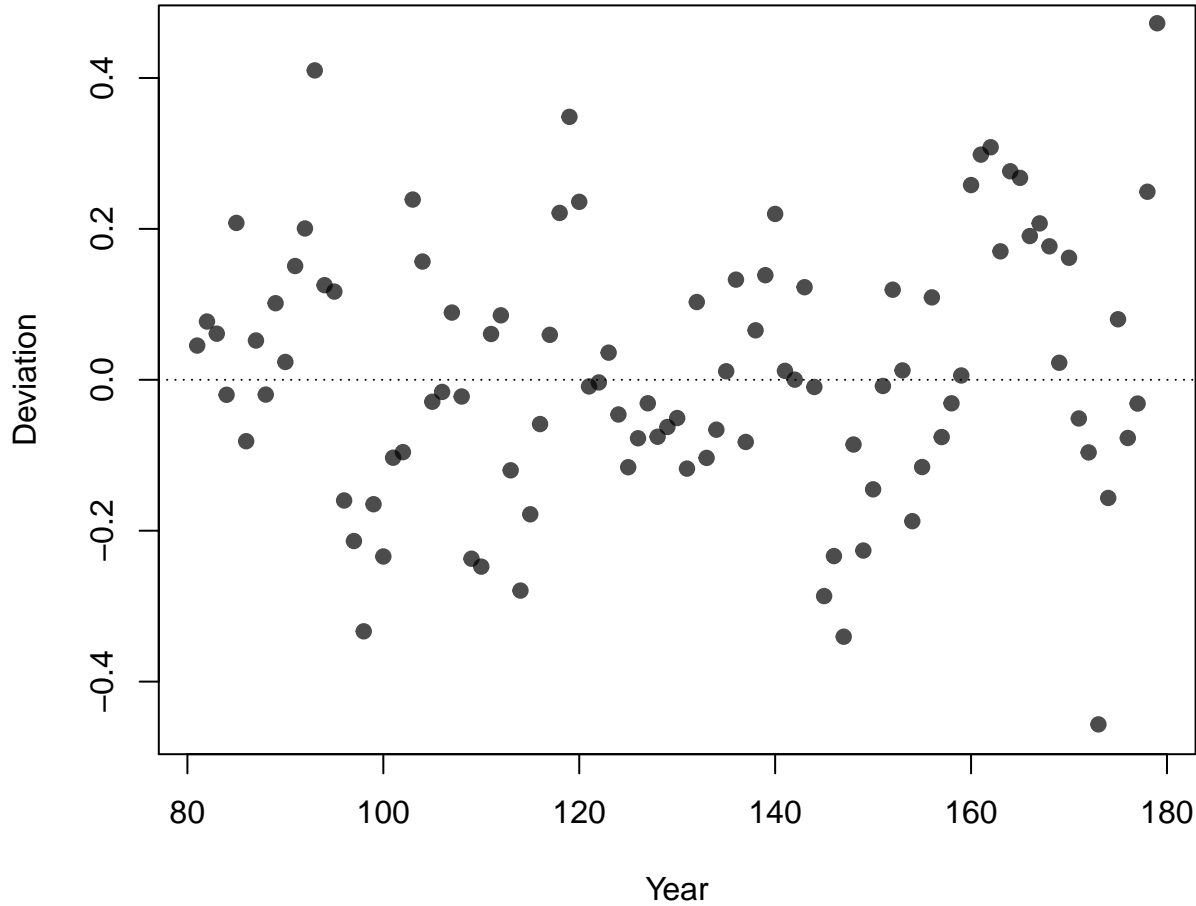
Log expected index



Residual

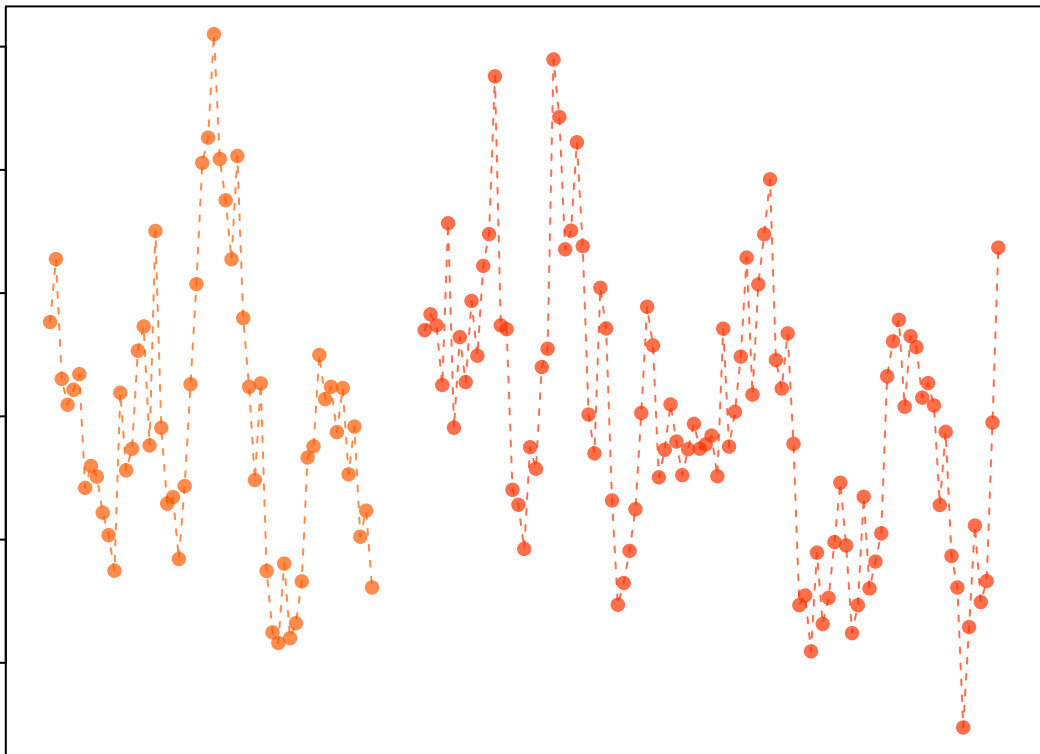


Year



Standardized index

1.6
1.4
1.2
1.0
0.8
0.6



50

100

150

Year

Age

40

30

20

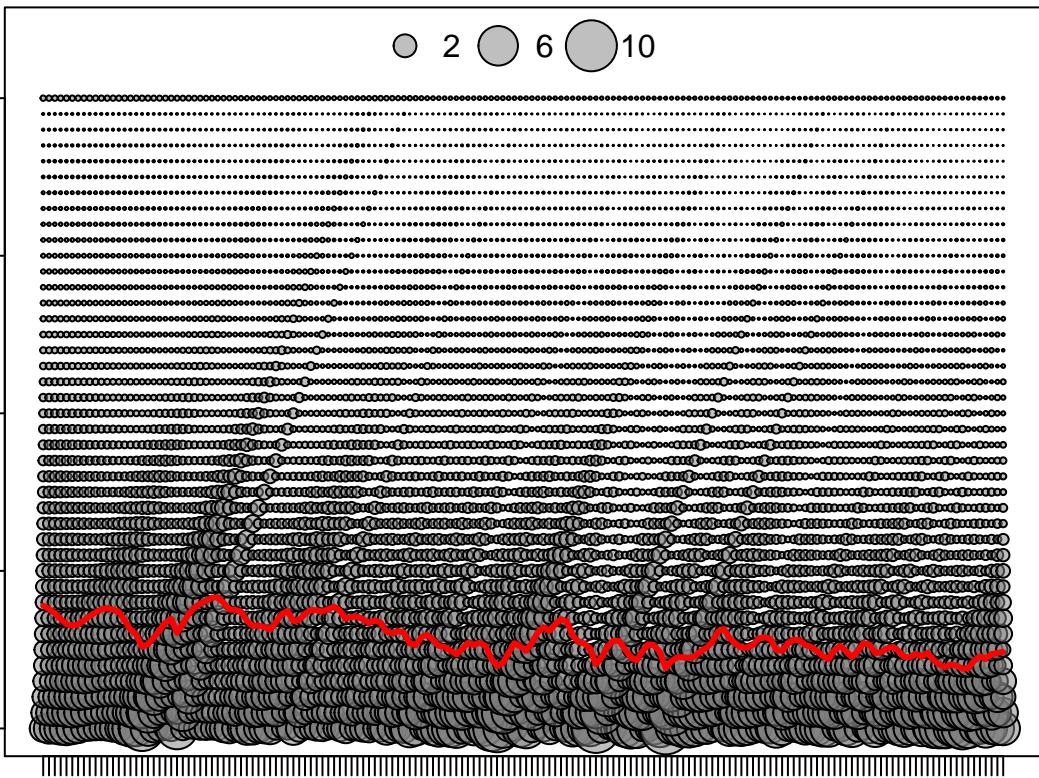
10

0

○ 2 ○ 6 ○ 10

16 27 38 49 60 71 82 93 106 120 134 148 162 176

Year



Age

40

30

20

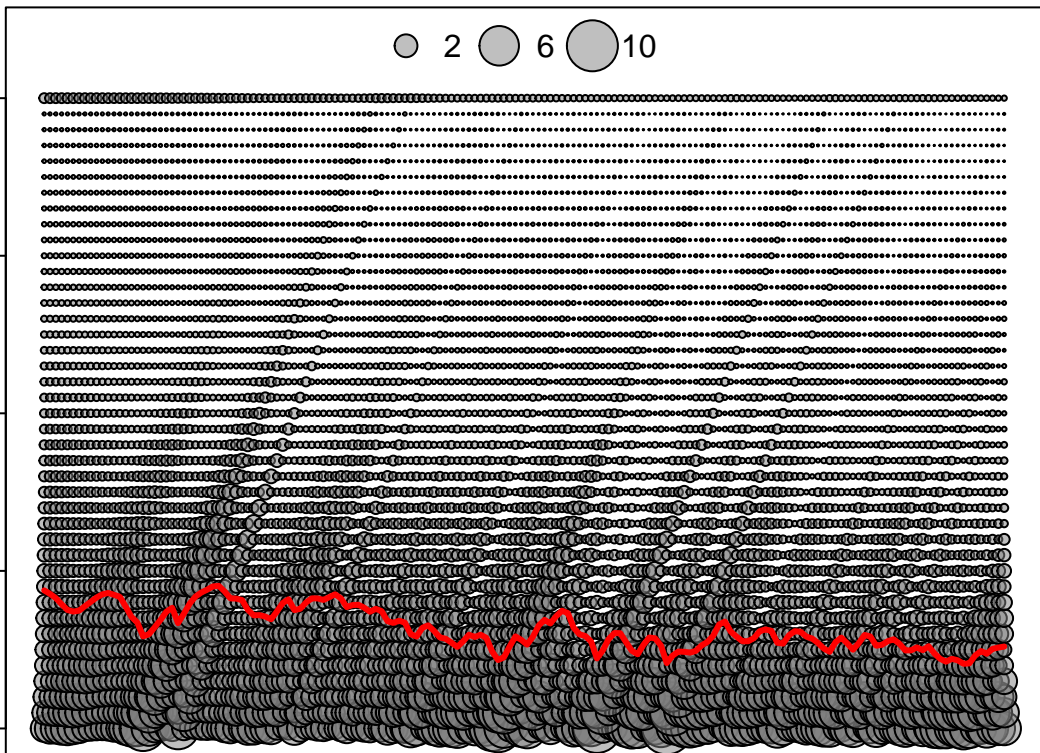
10

0

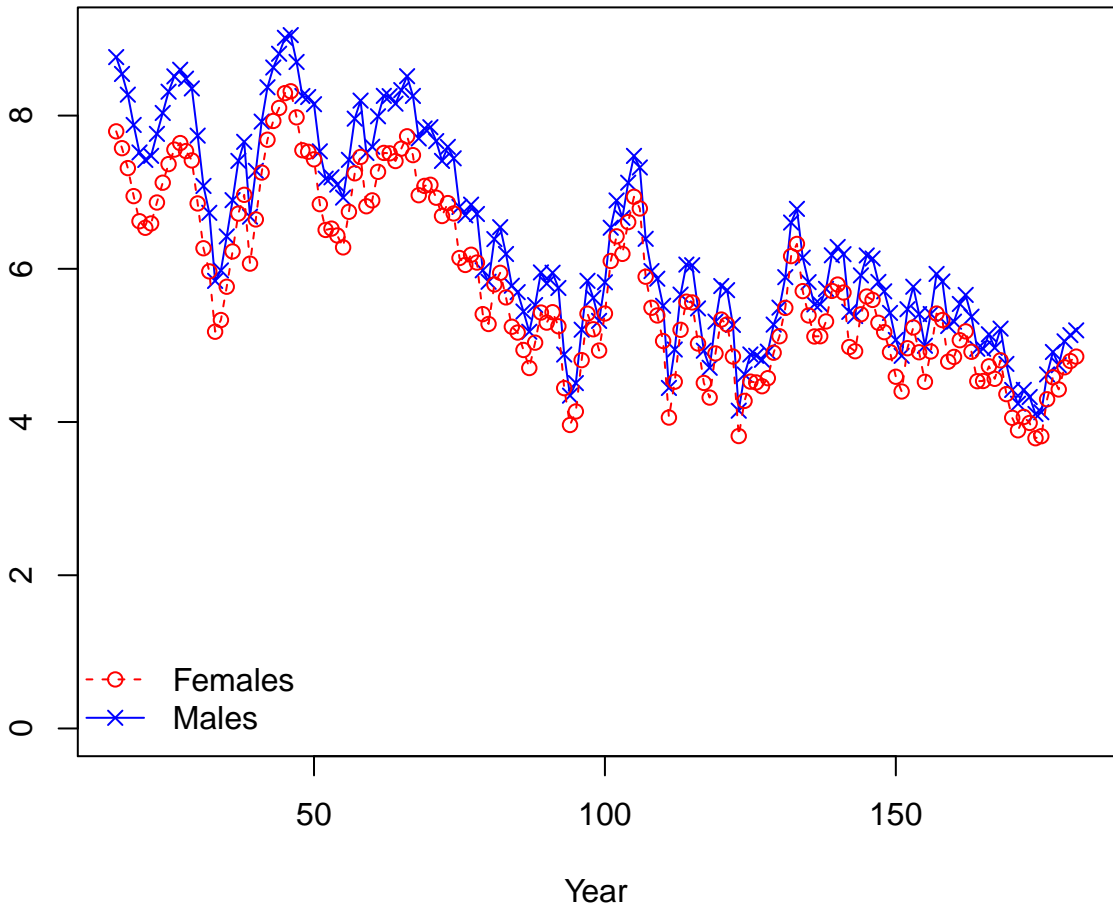
○ 2 ○ 6 ○ 10

16 27 38 49 60 71 82 93 106 120 134 148 162 176

Year

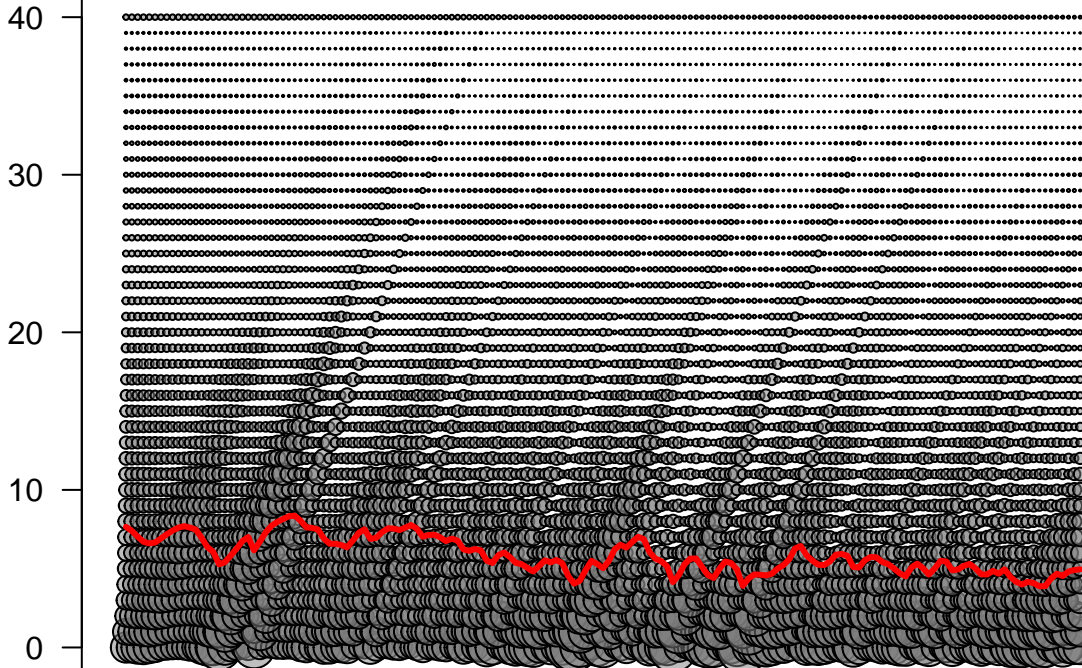


Mean age (yr)



Age

○ 0.1 ○ 5 ○ 10



16 27 38 49 60 71 82 93 106 120 134 148 162 176

Year

Age

40

30

20

10

0

○ 0.1 ○ 5 ○ 10

16

27

38

49

60

71

82

93

106

120

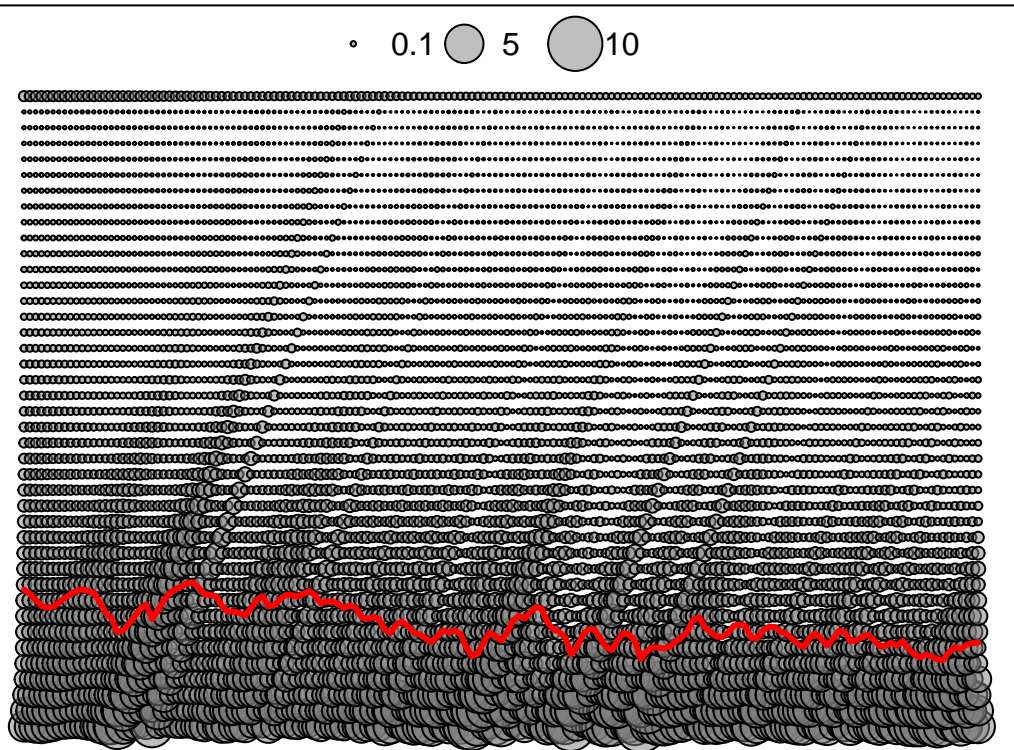
134

148

162

176

Year



Mean age (yr)

8

6

4

2

0

-o- Females

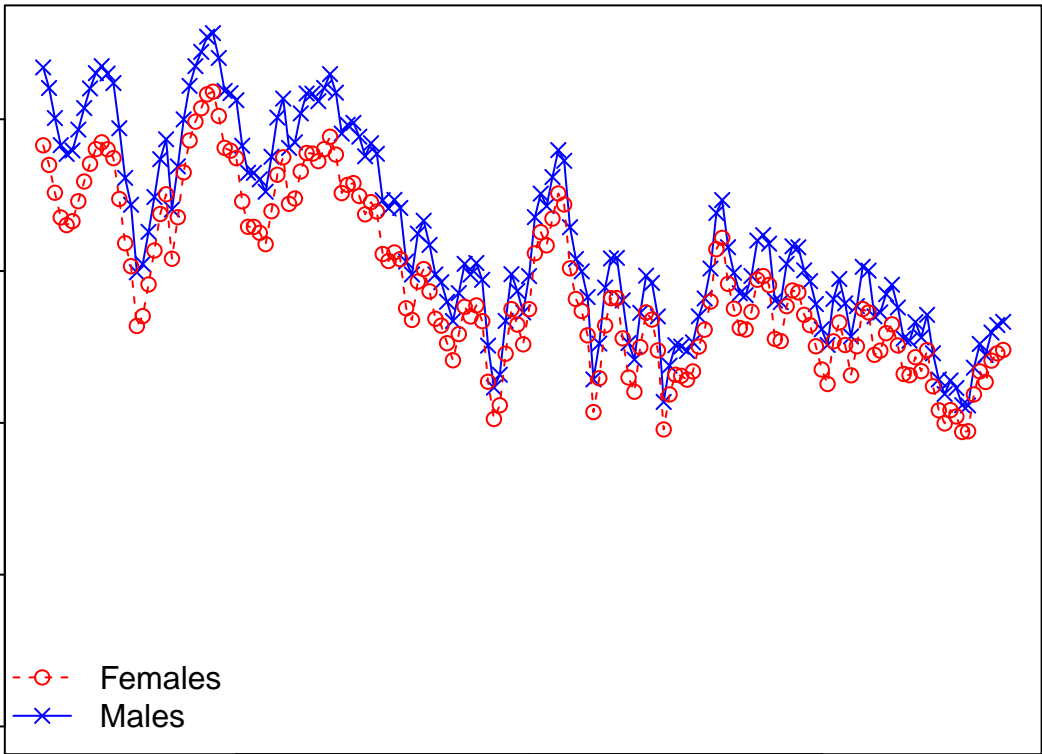
-x- Males

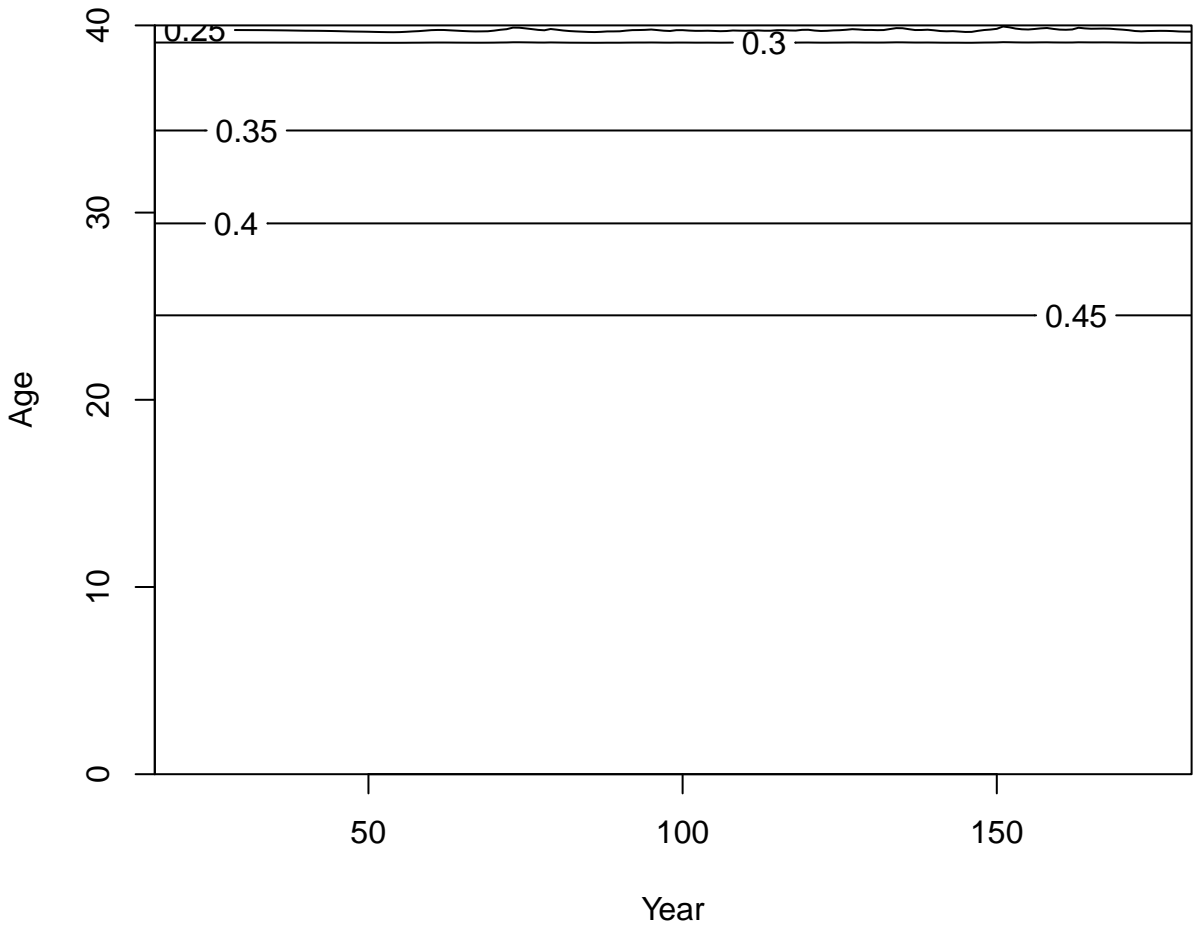
50

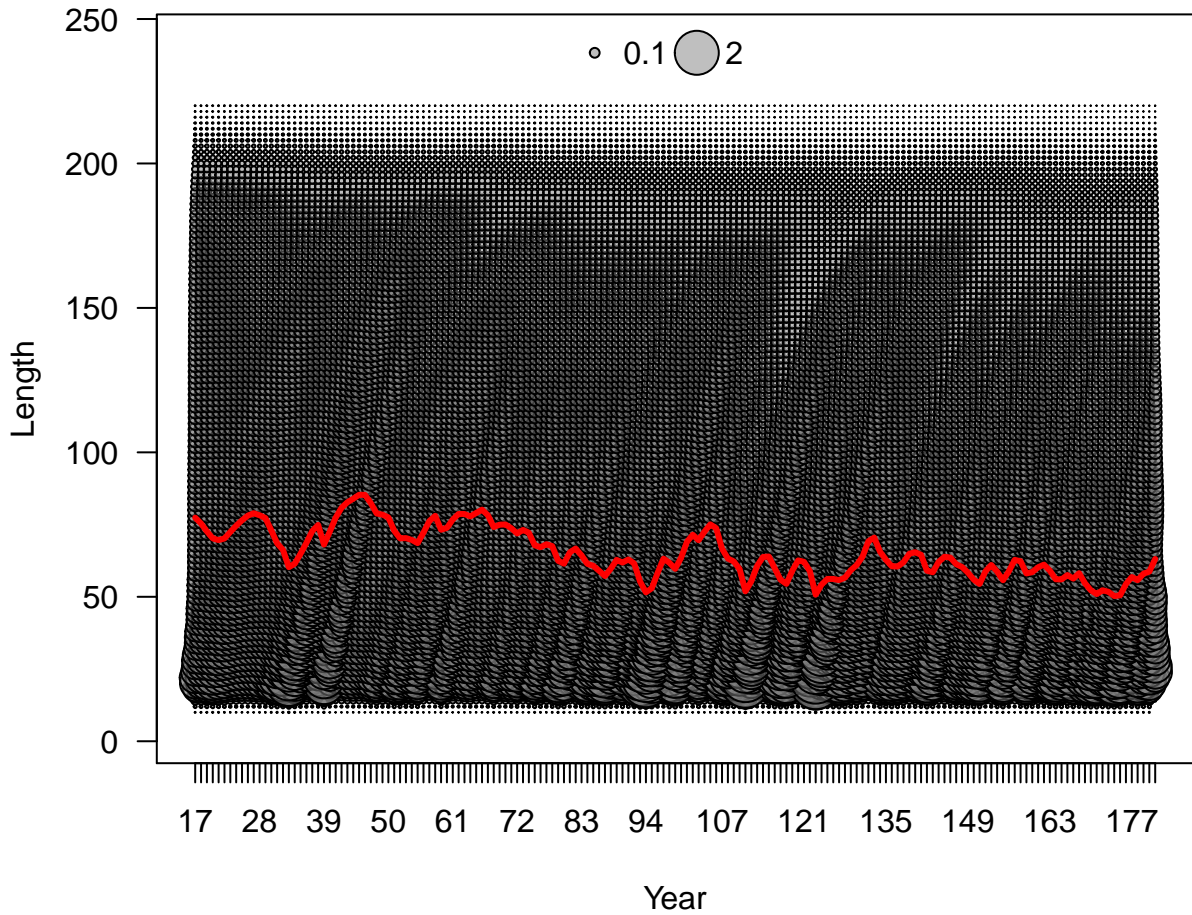
100

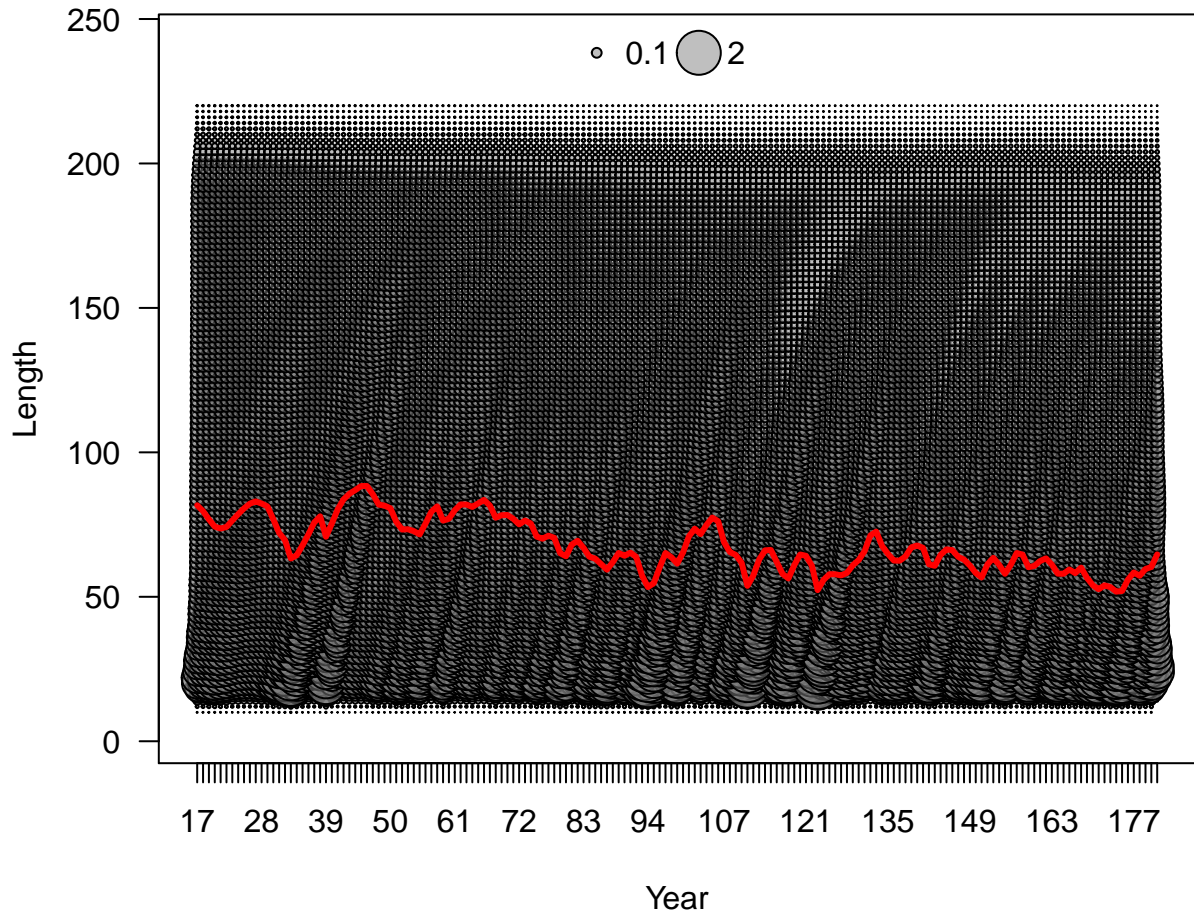
150

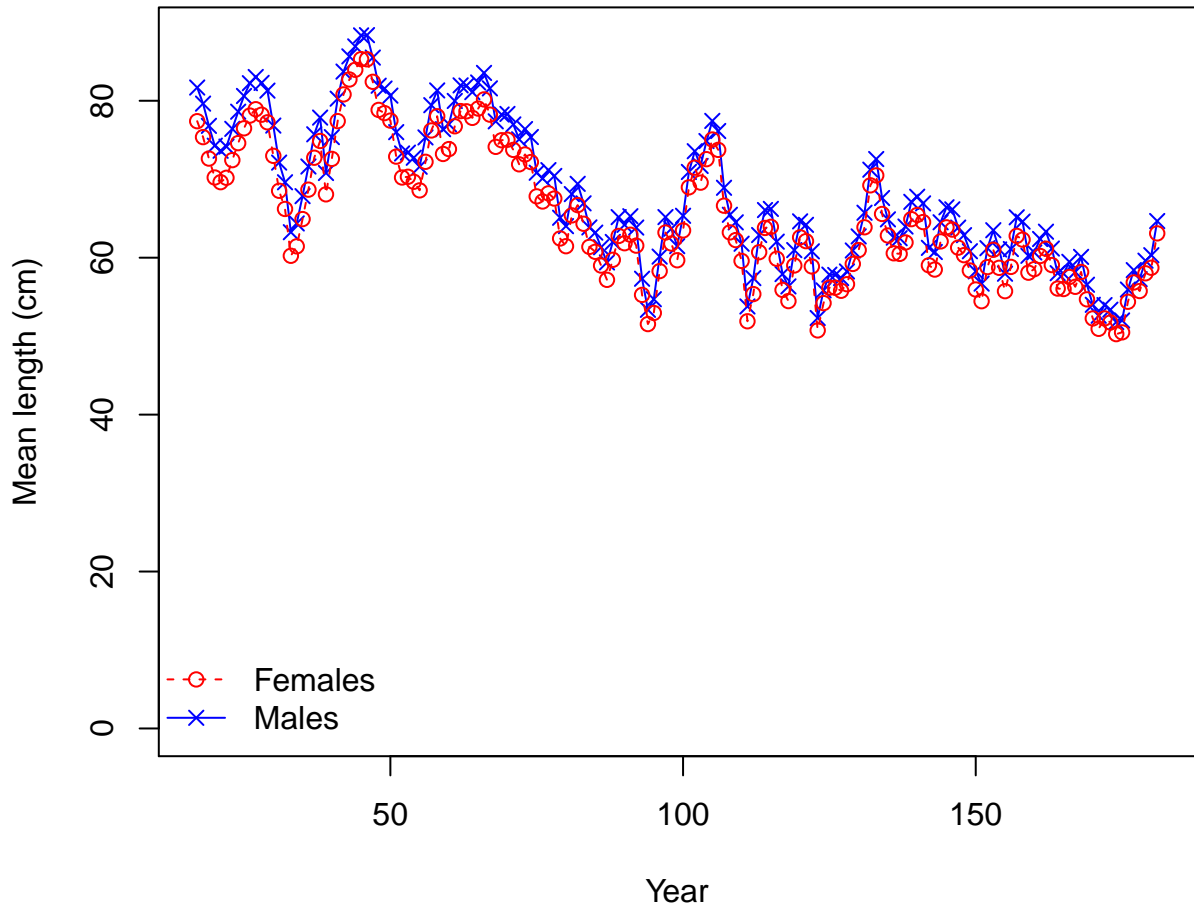
Year

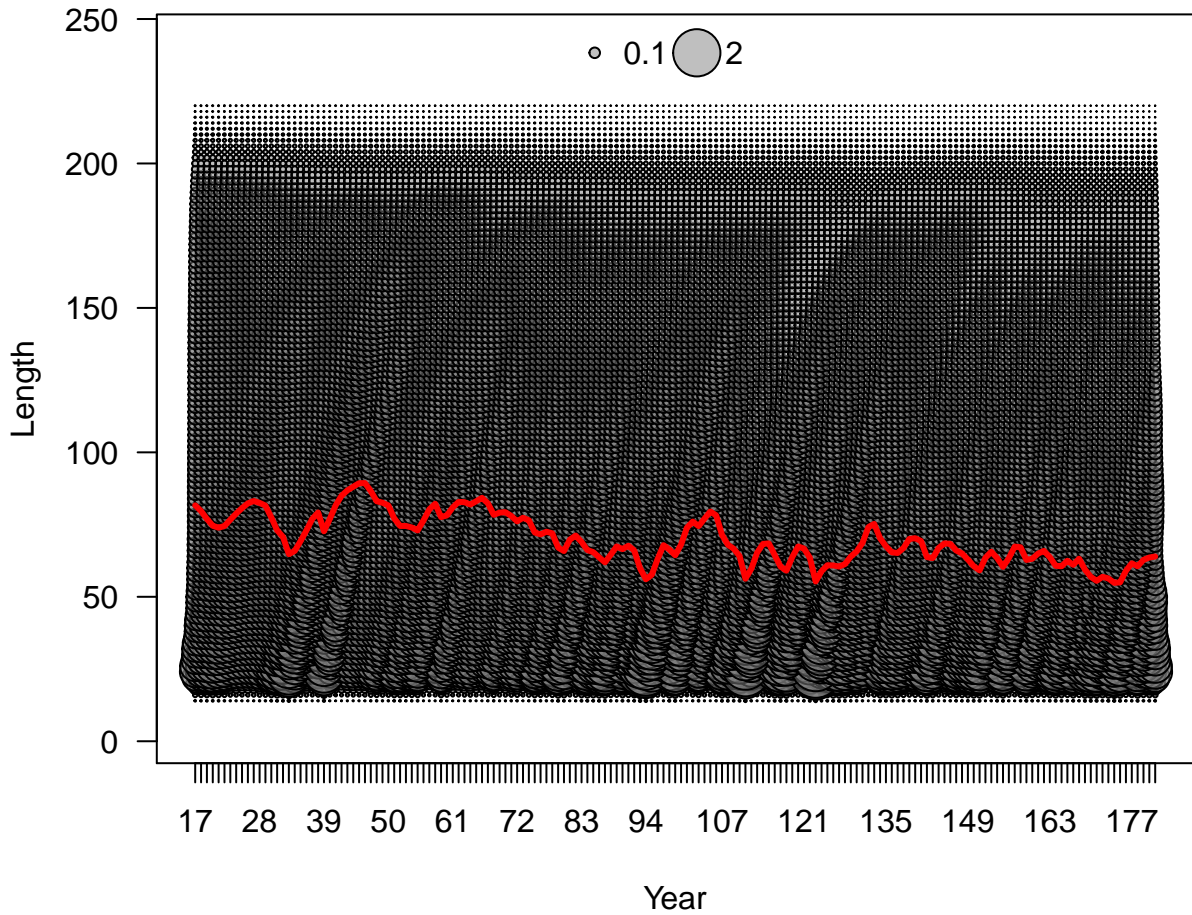


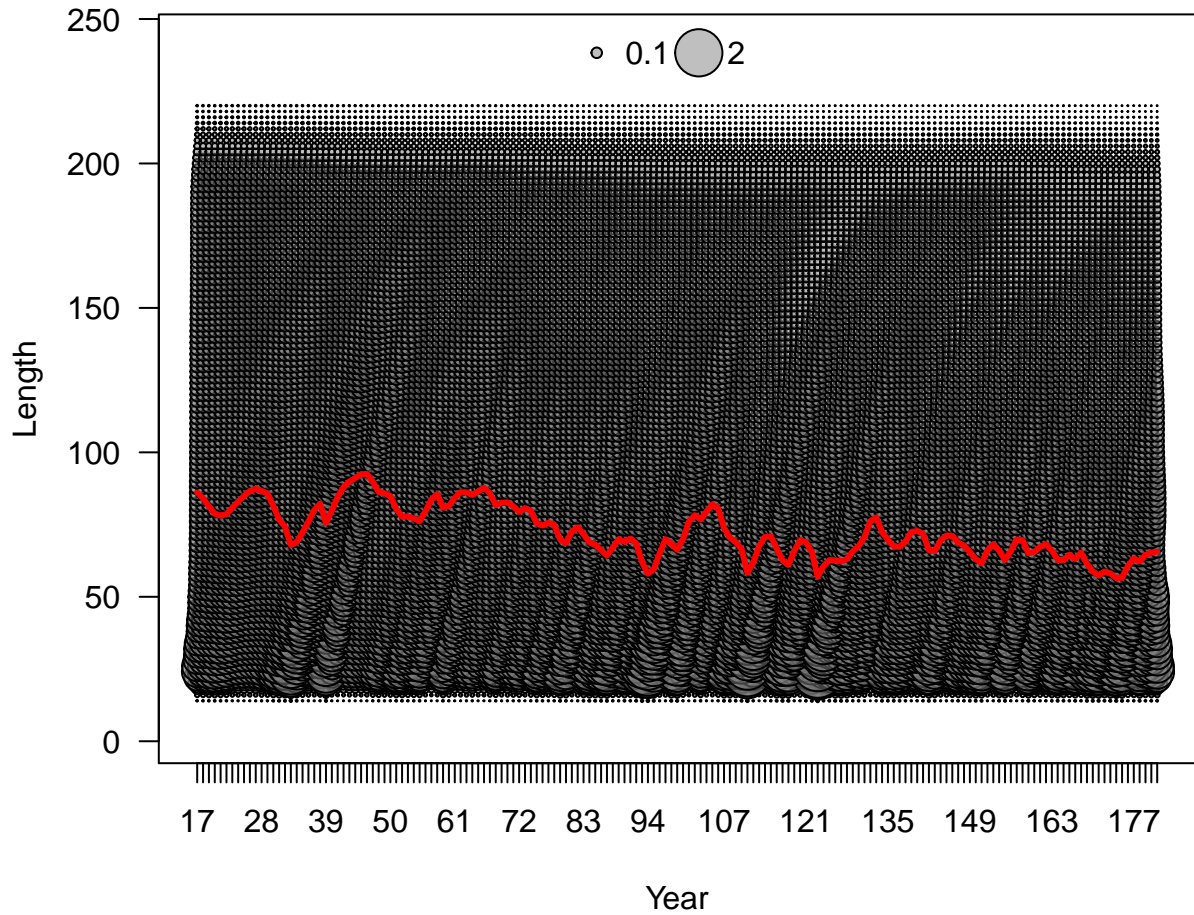


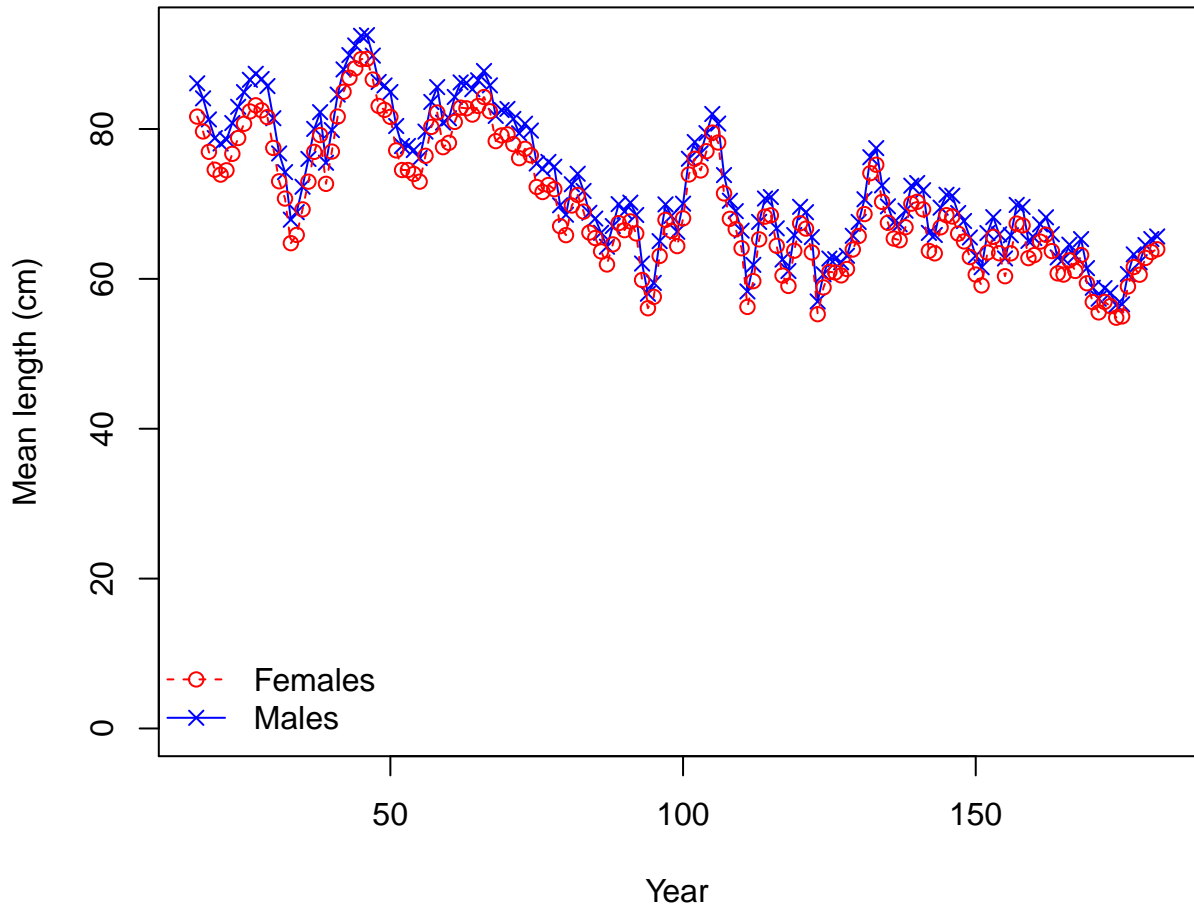




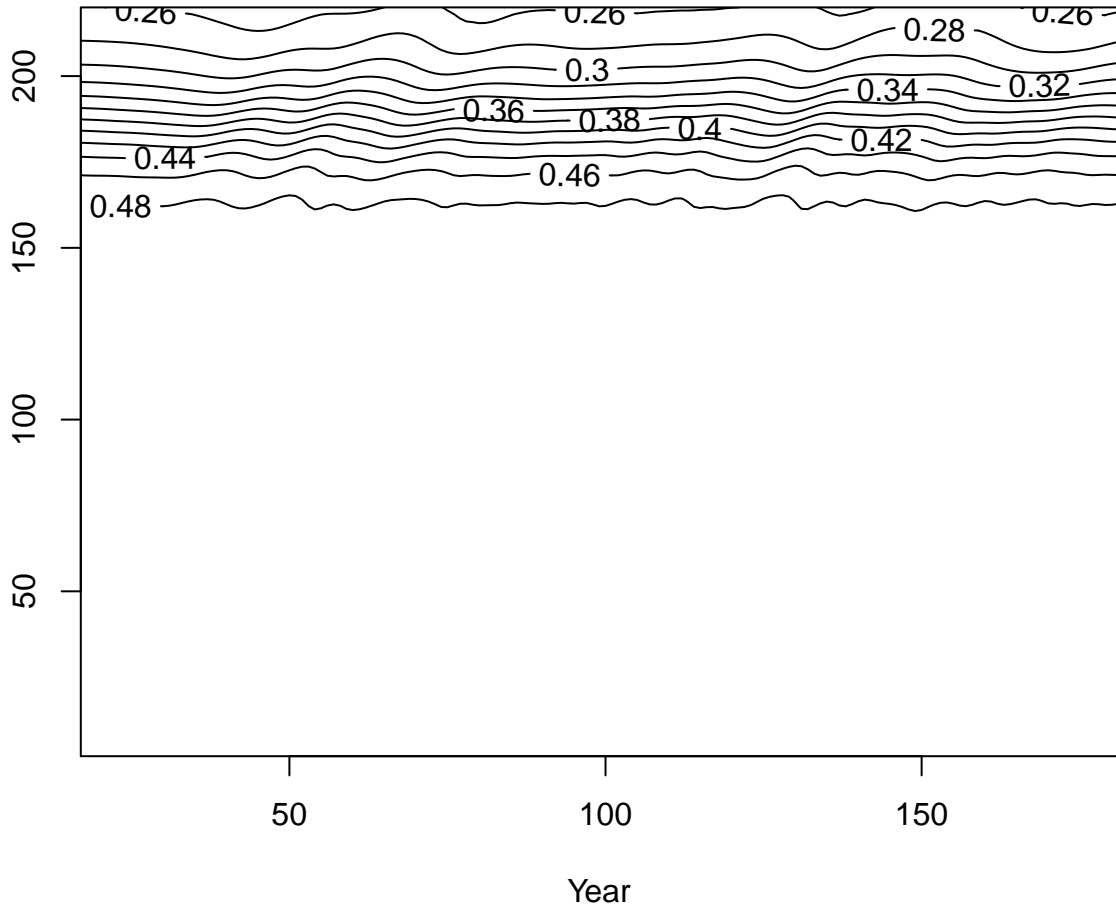


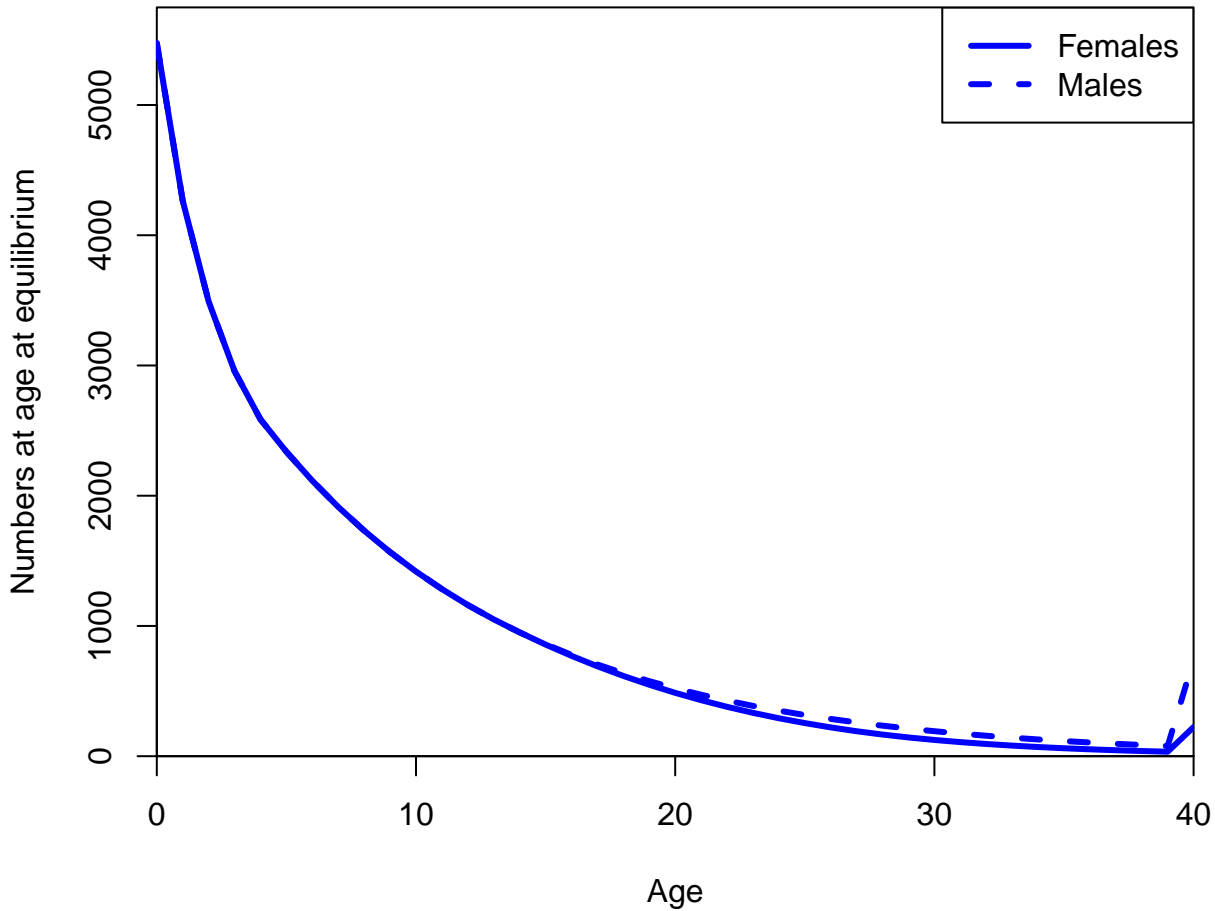


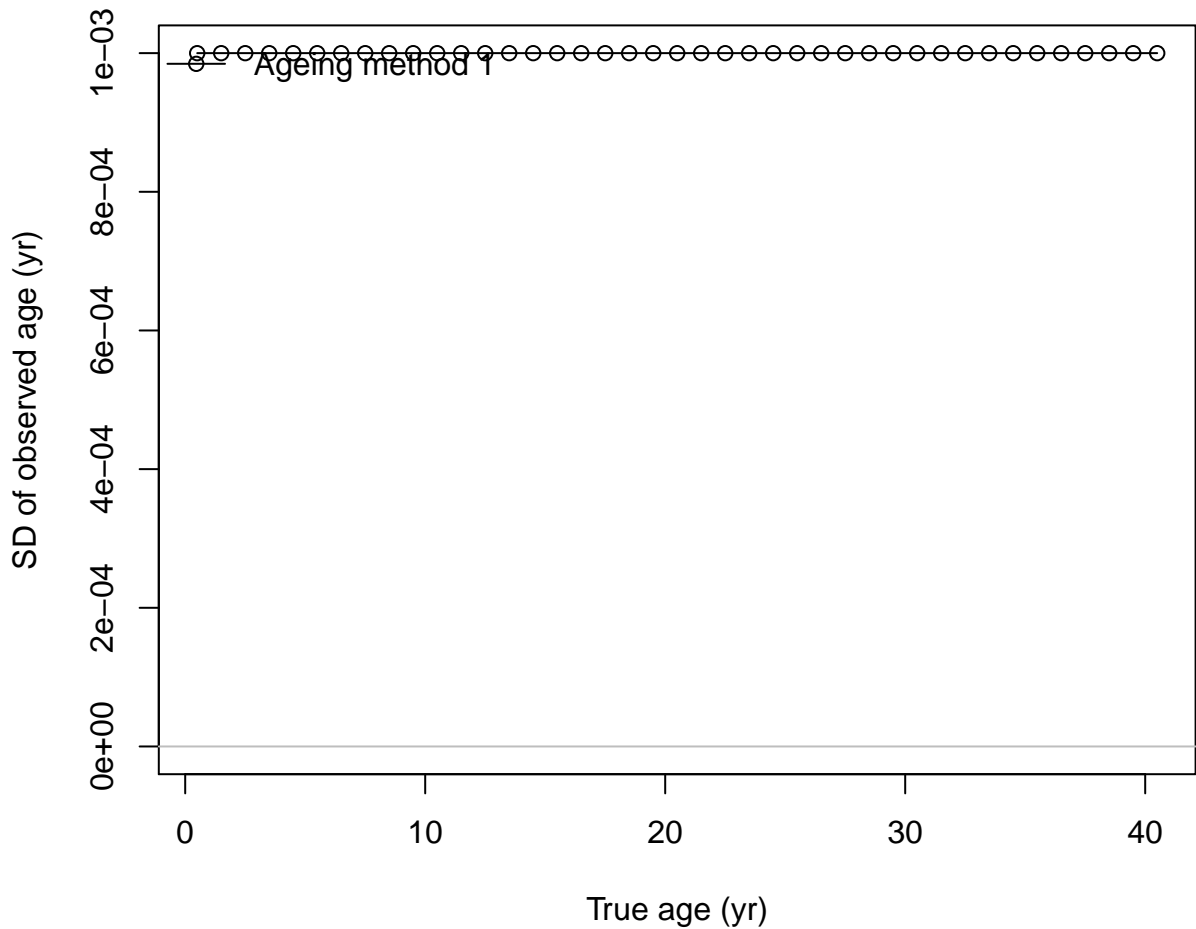




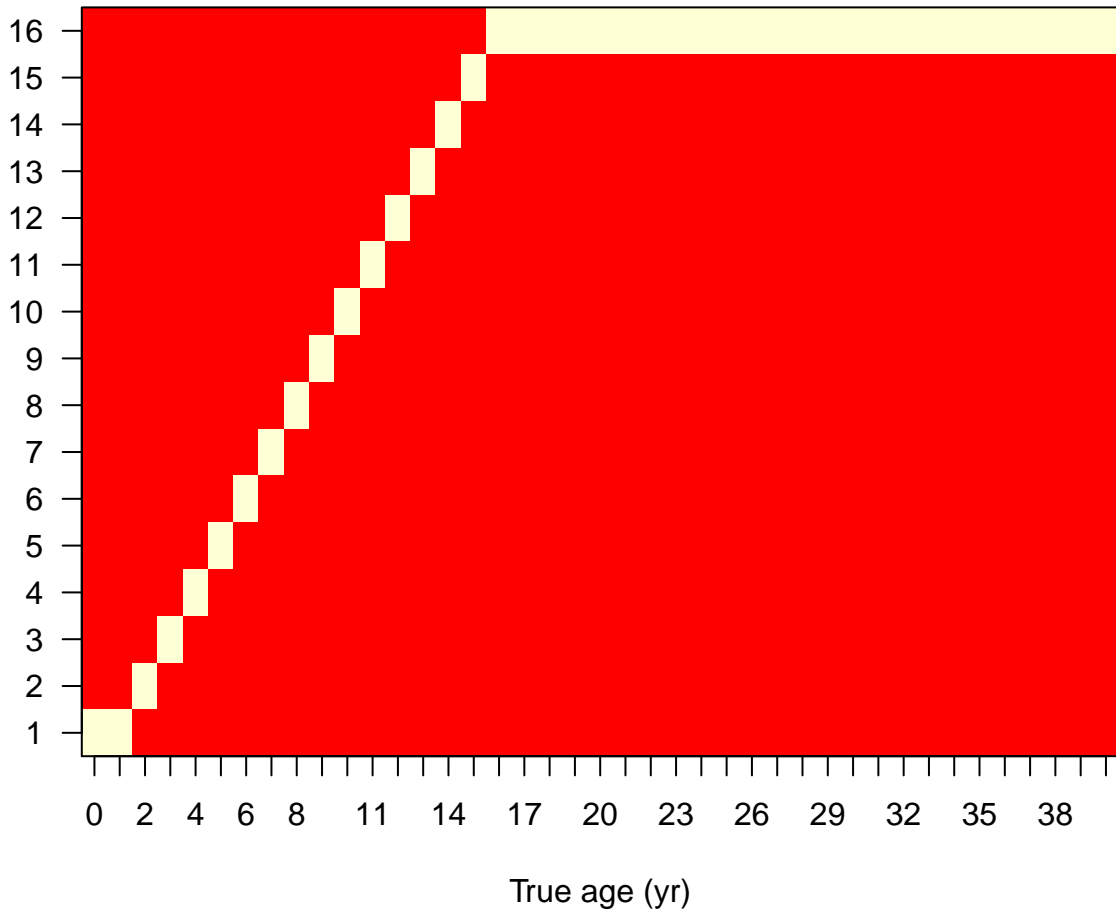
Length



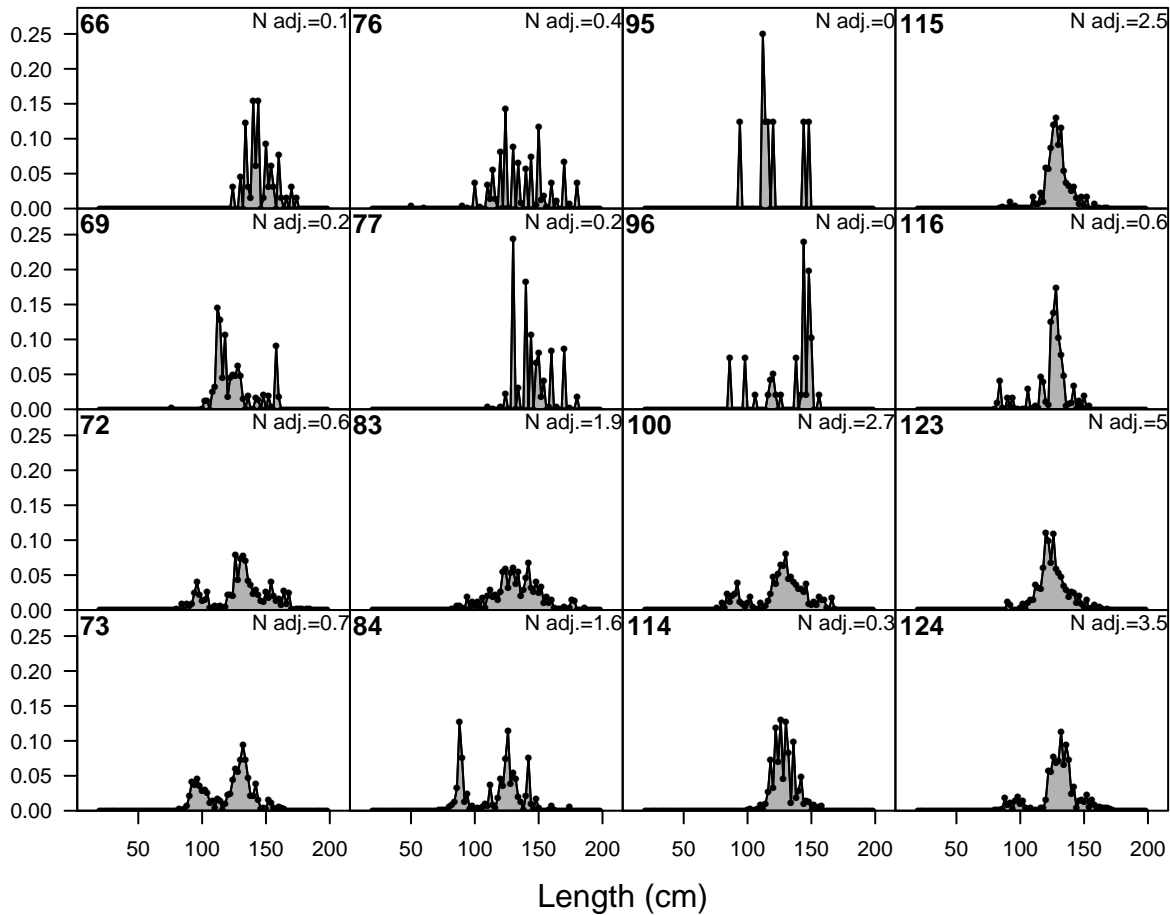


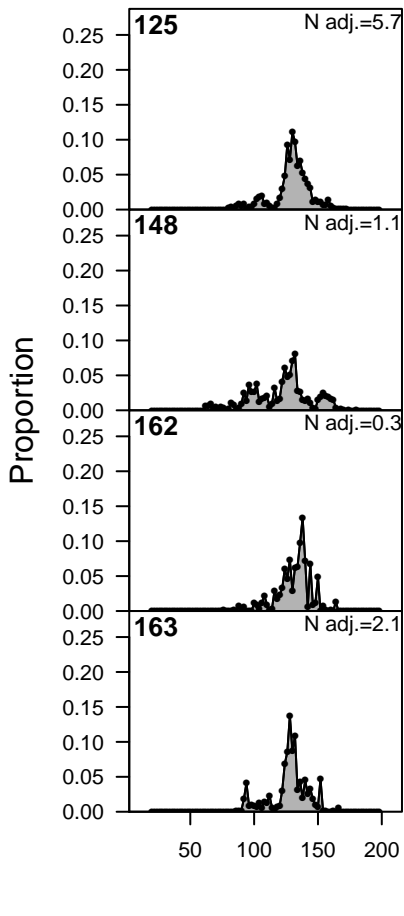


Observed age (yr)

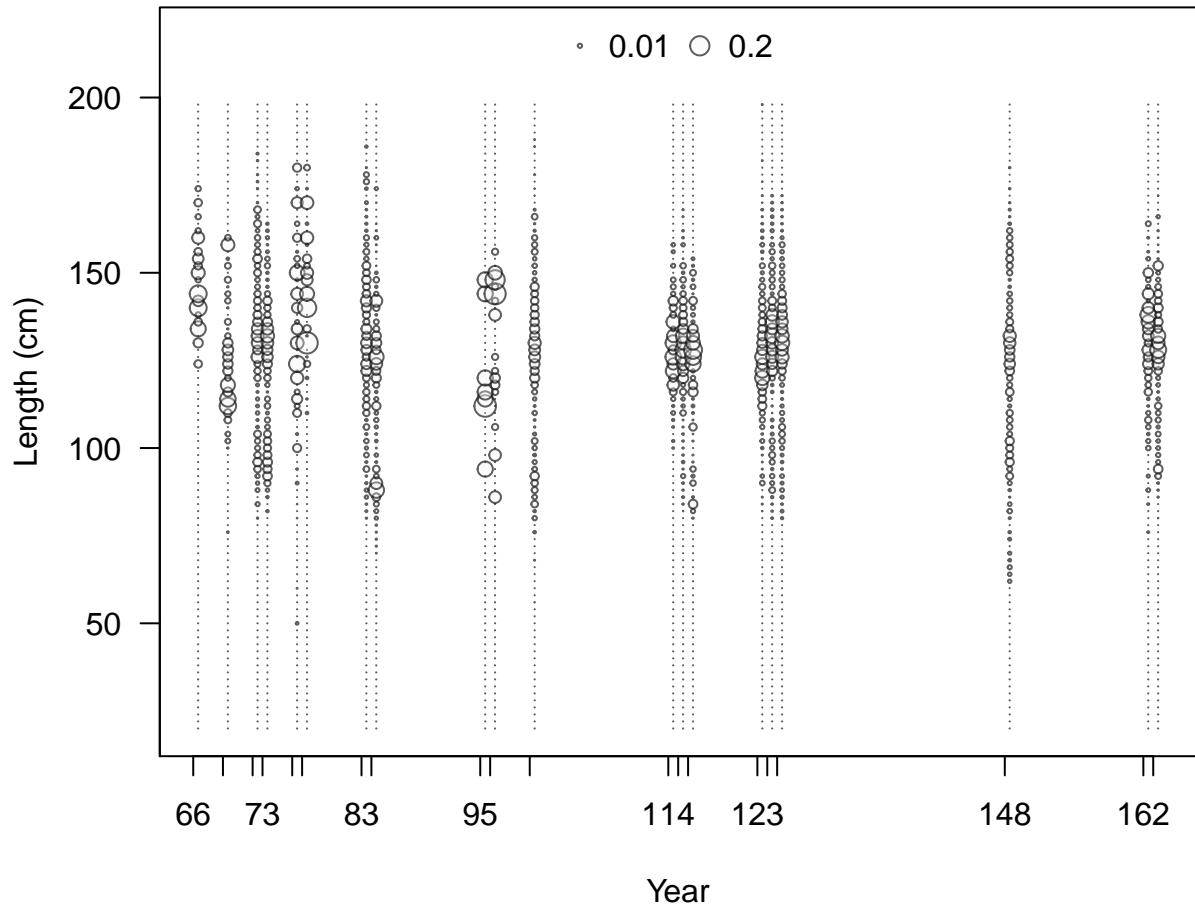


Proportion

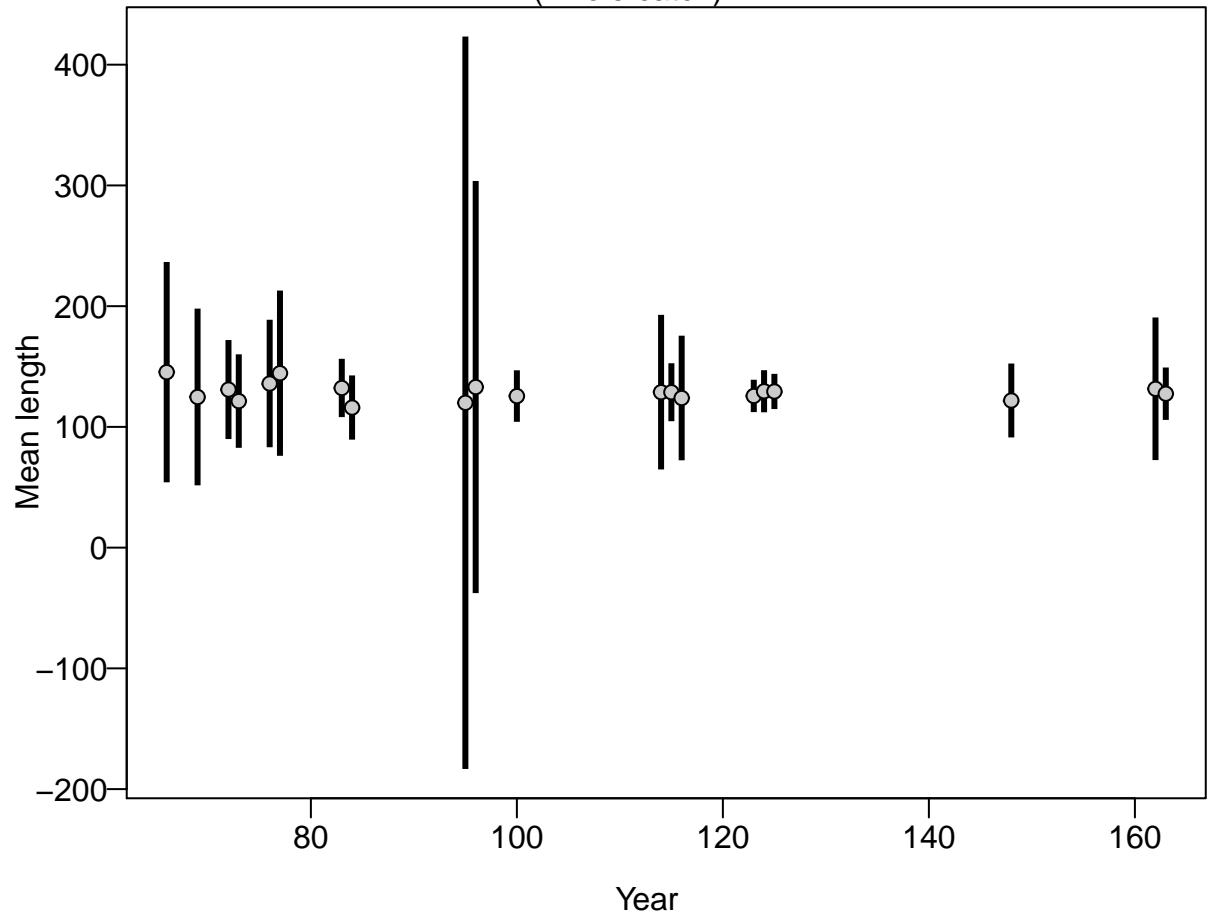




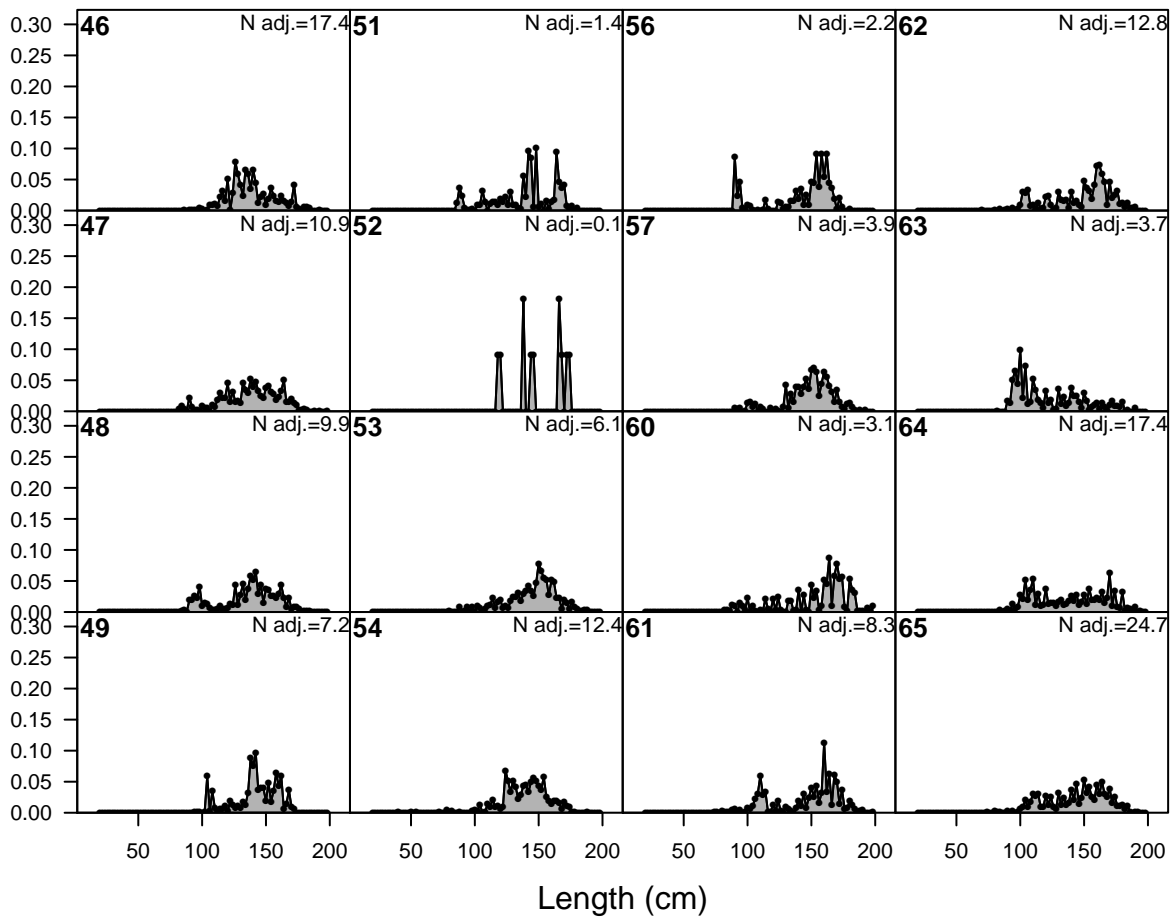
Length (cm)



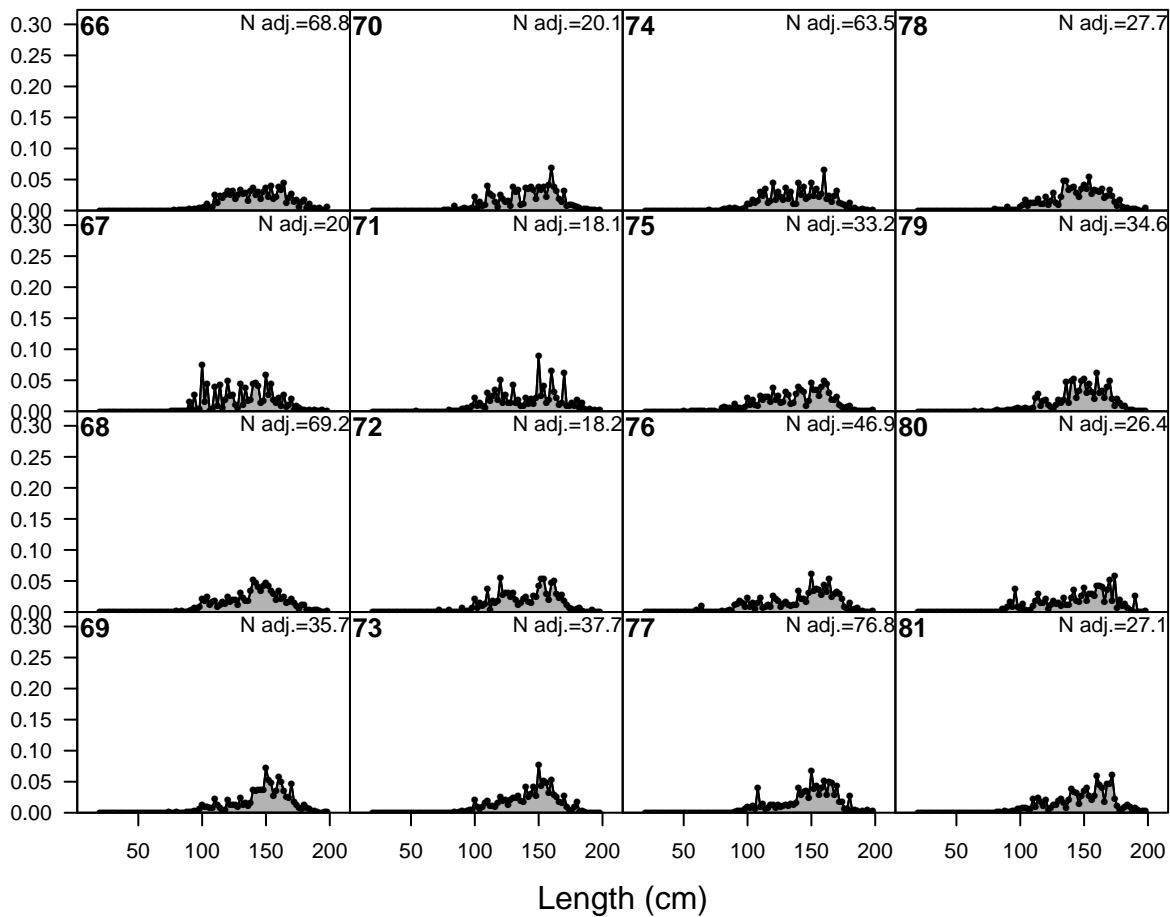
A1-LL-n (whole catch)



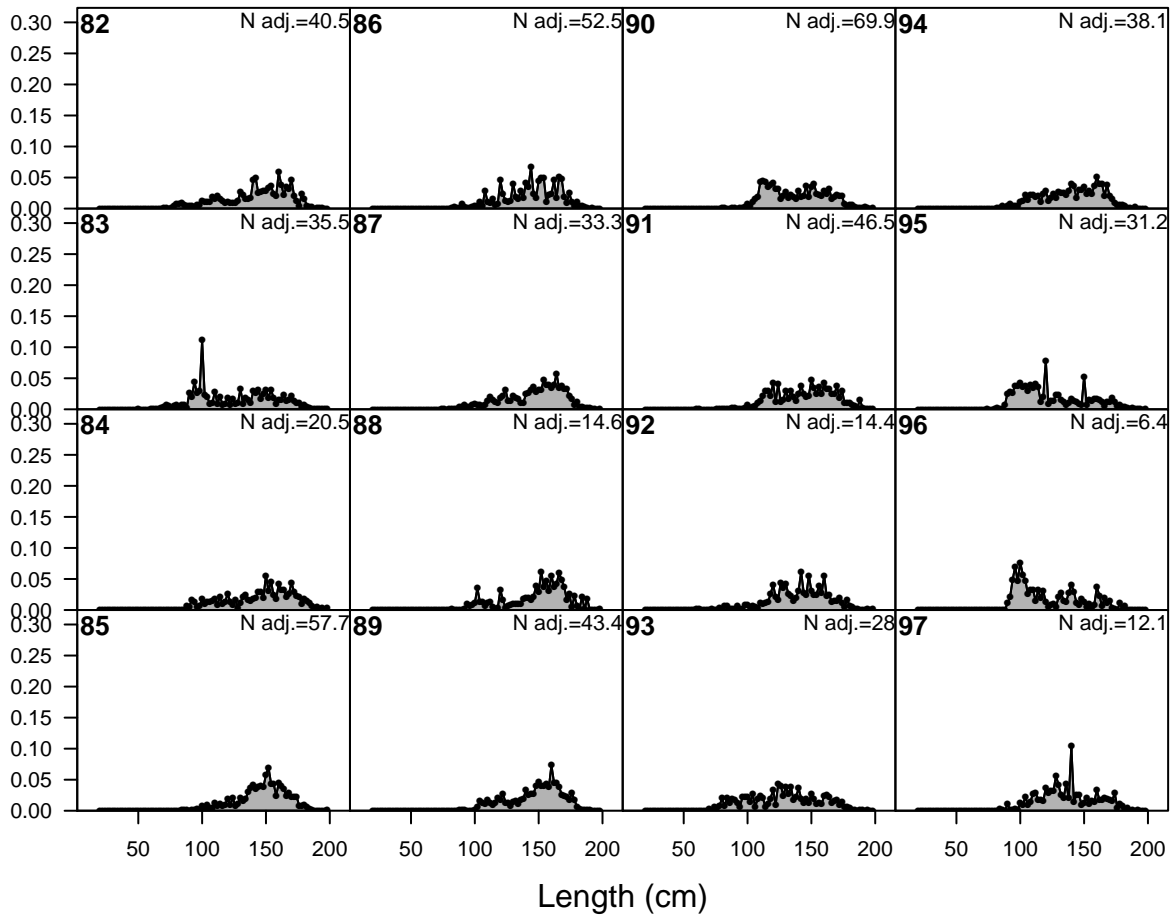
Proportion



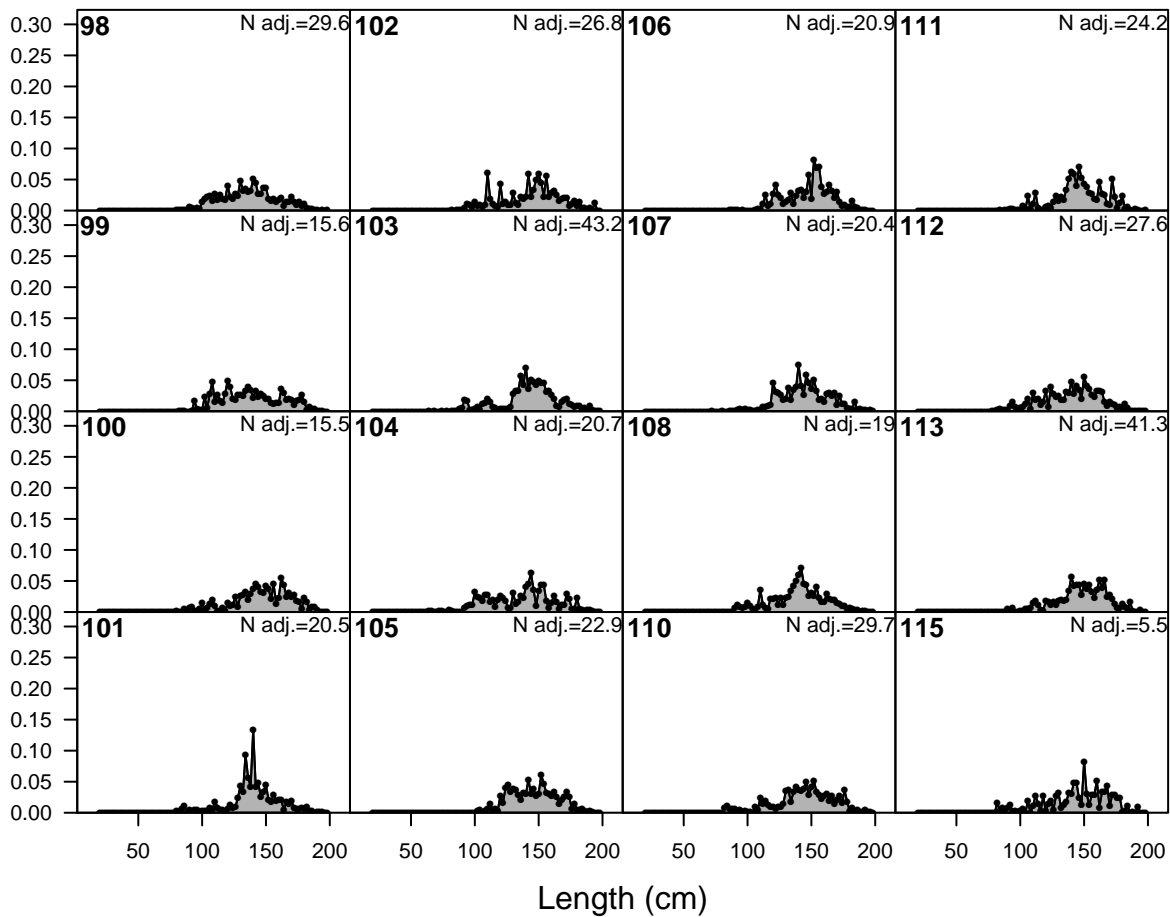
Proportion



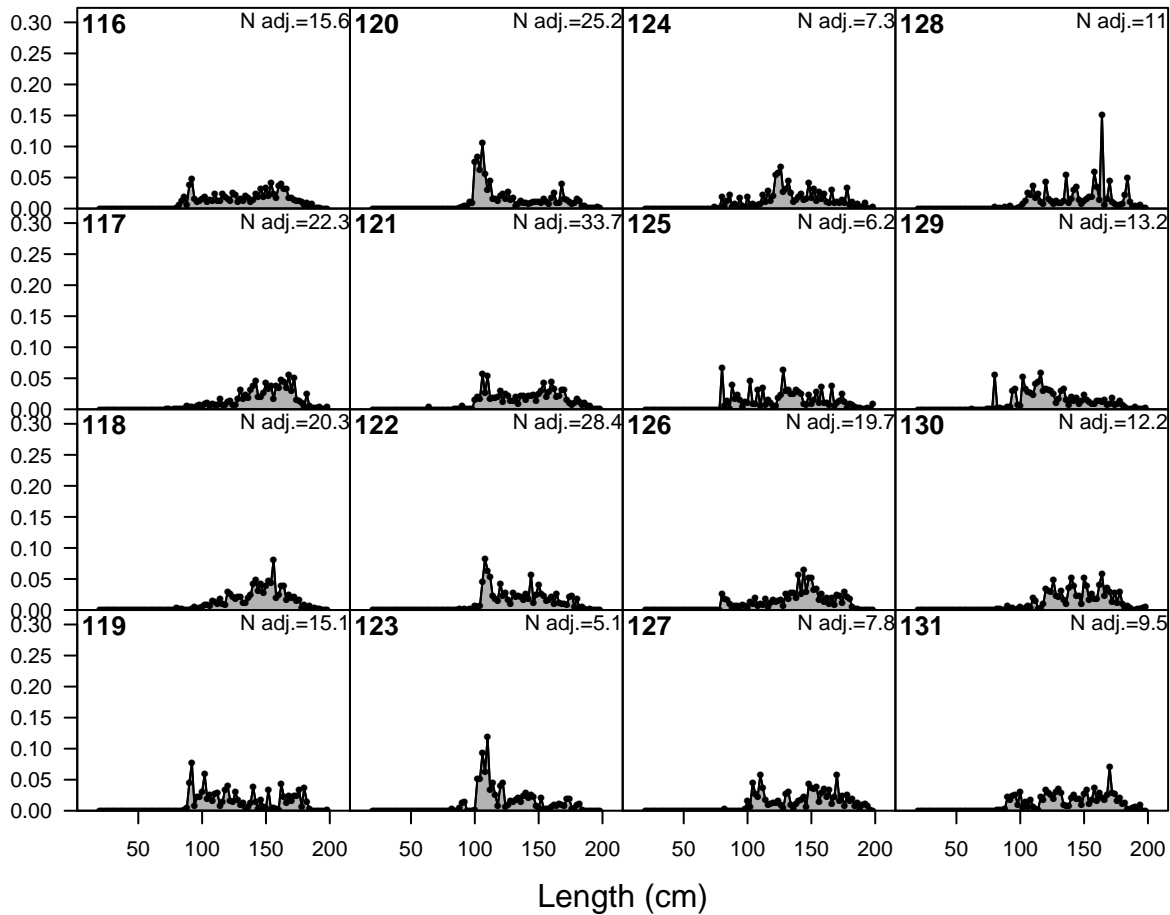
Proportion



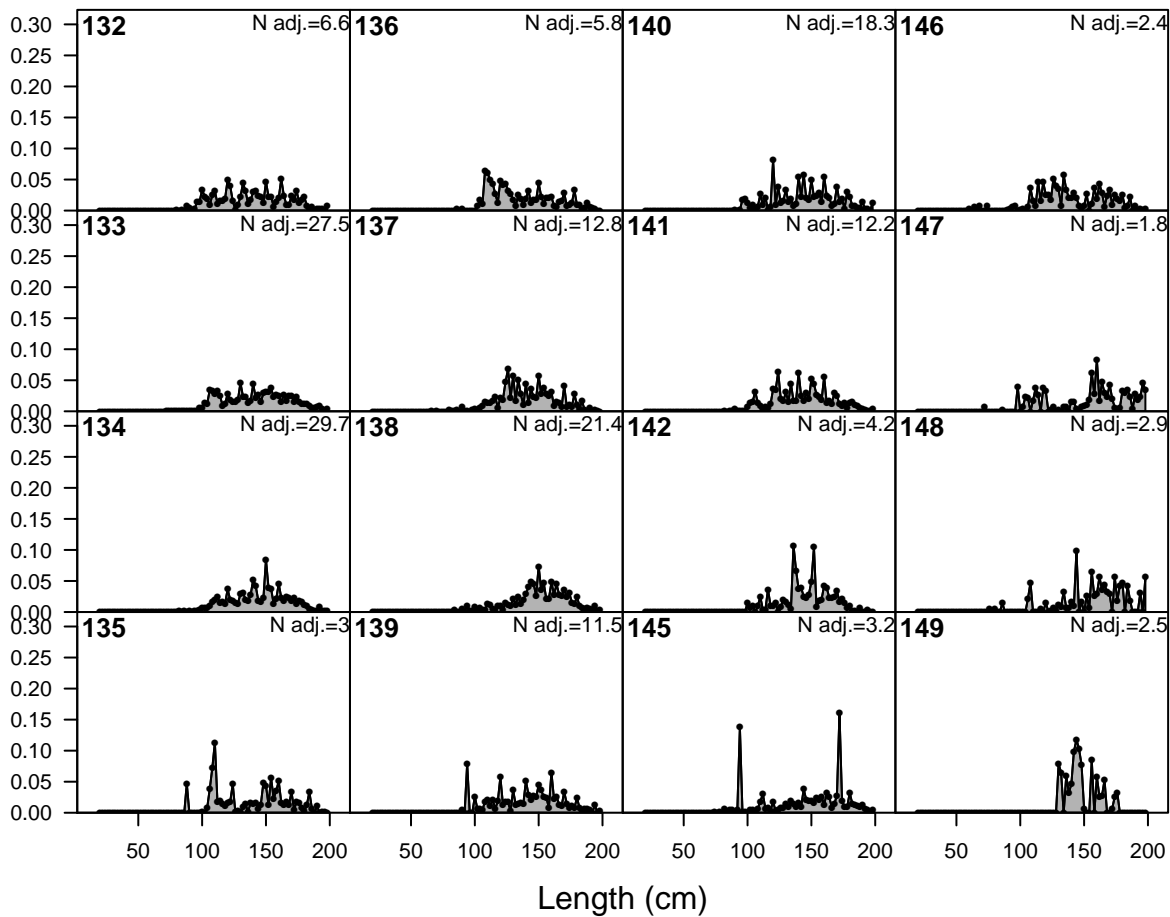
Proportion



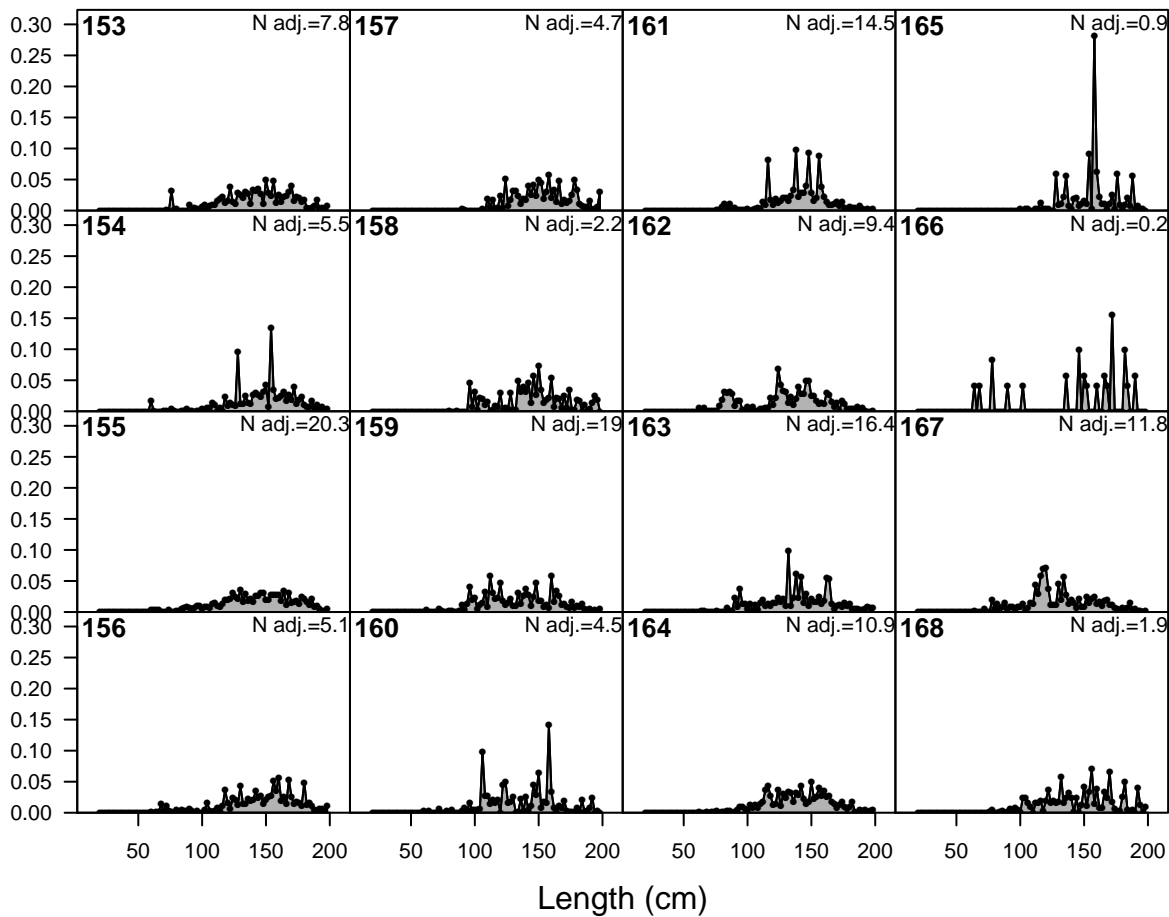
Proportion



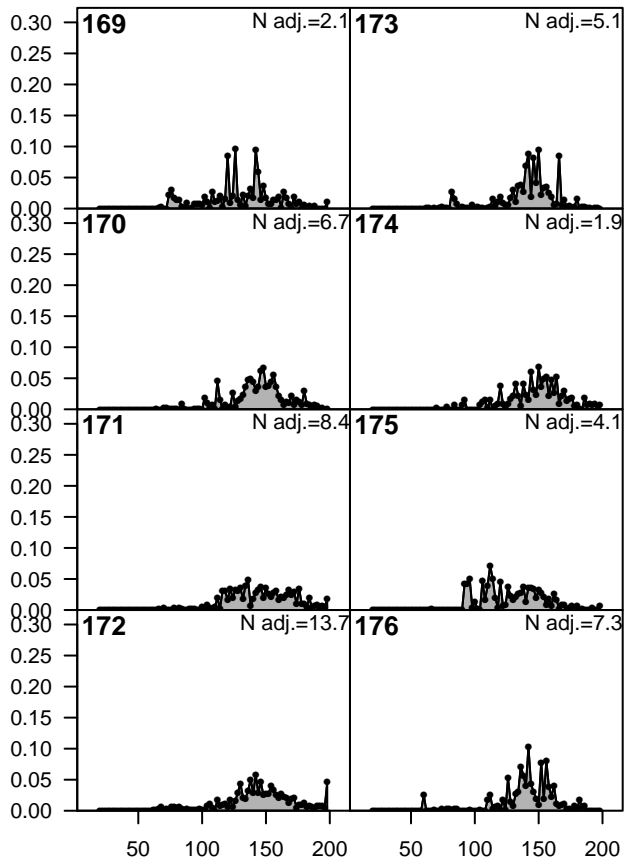
Proportion



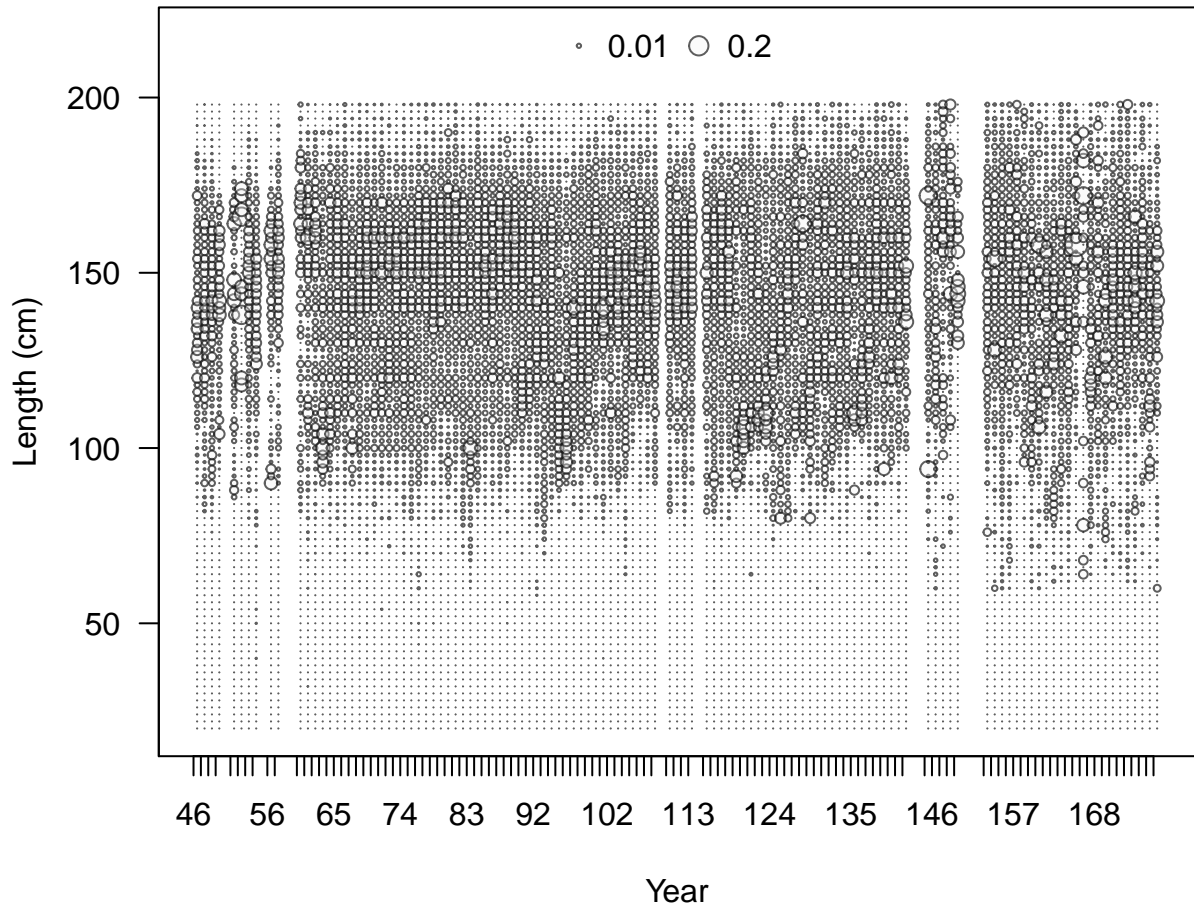
Proportion



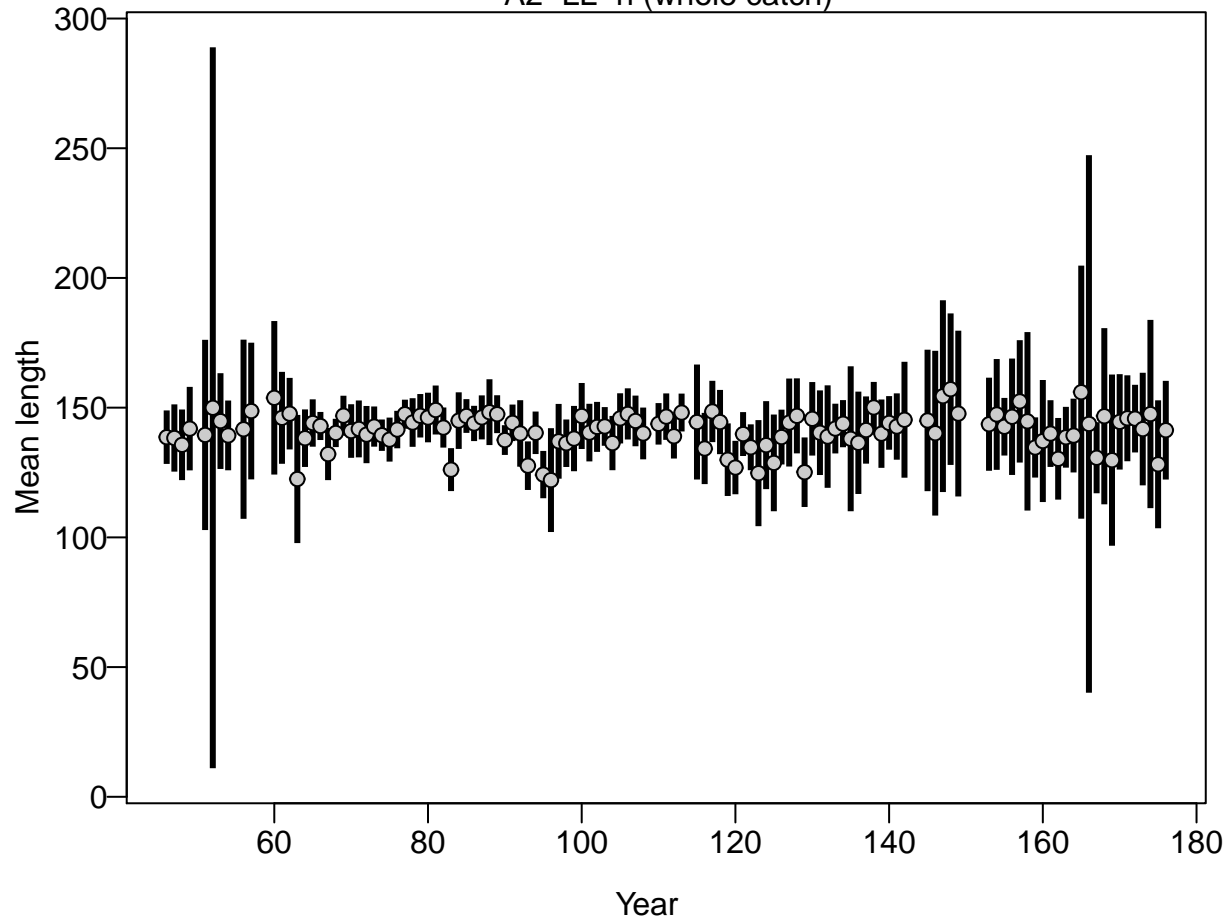
Proportion



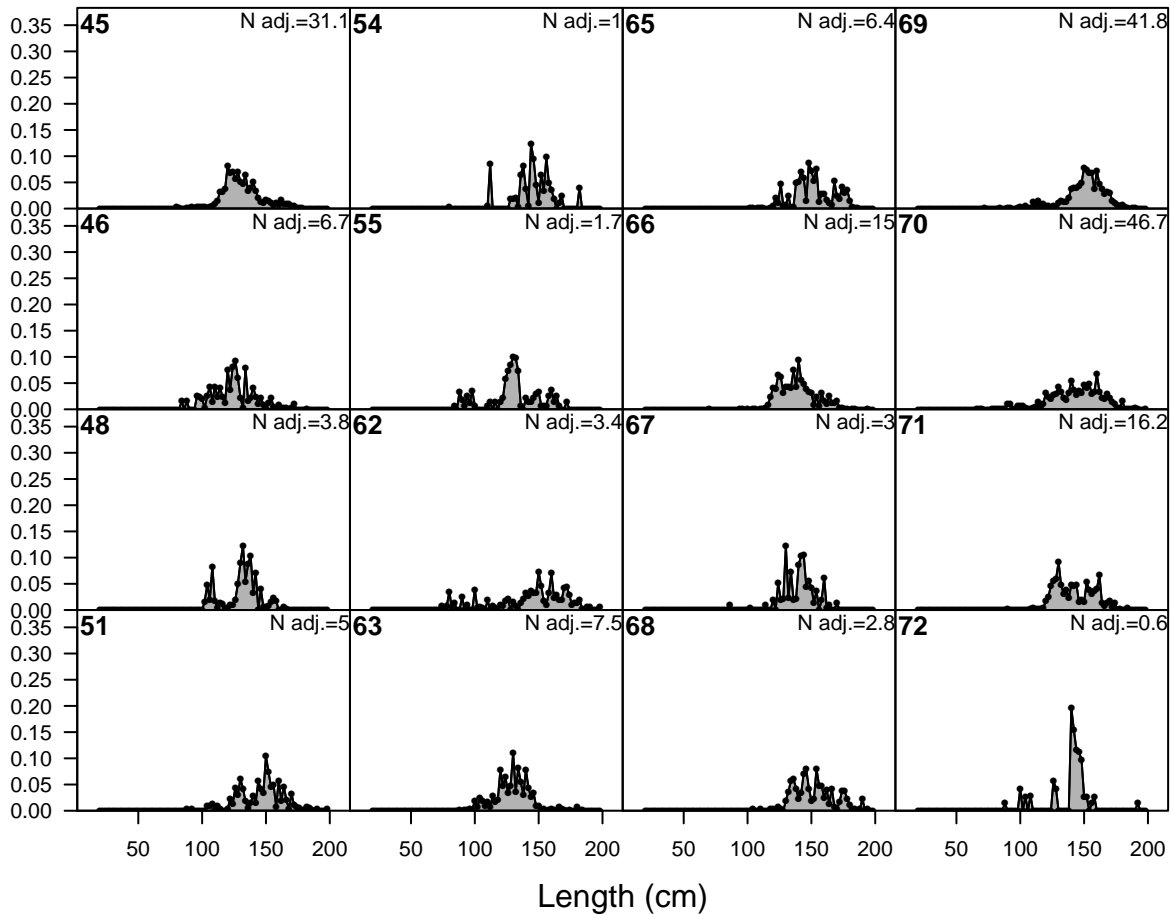
Length (cm)



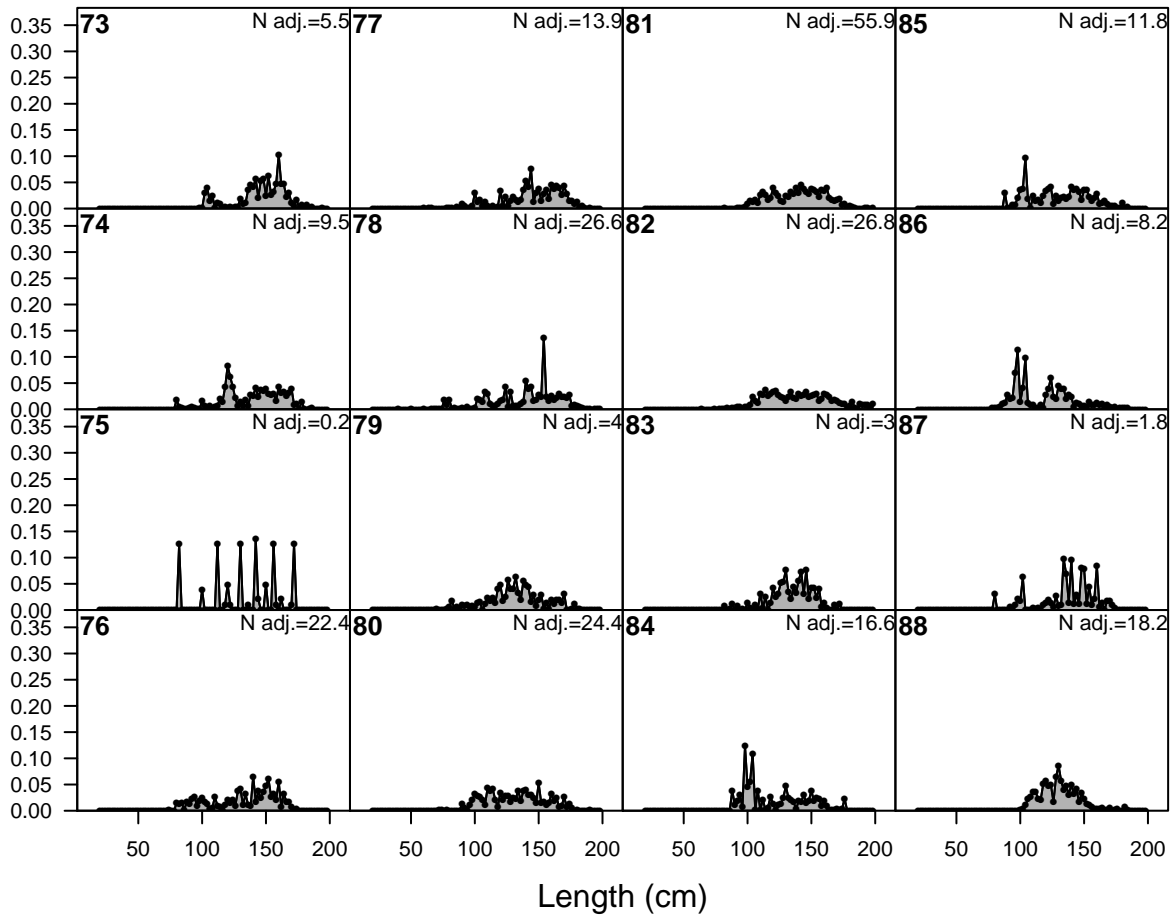
A2-LL-n (whole catch)



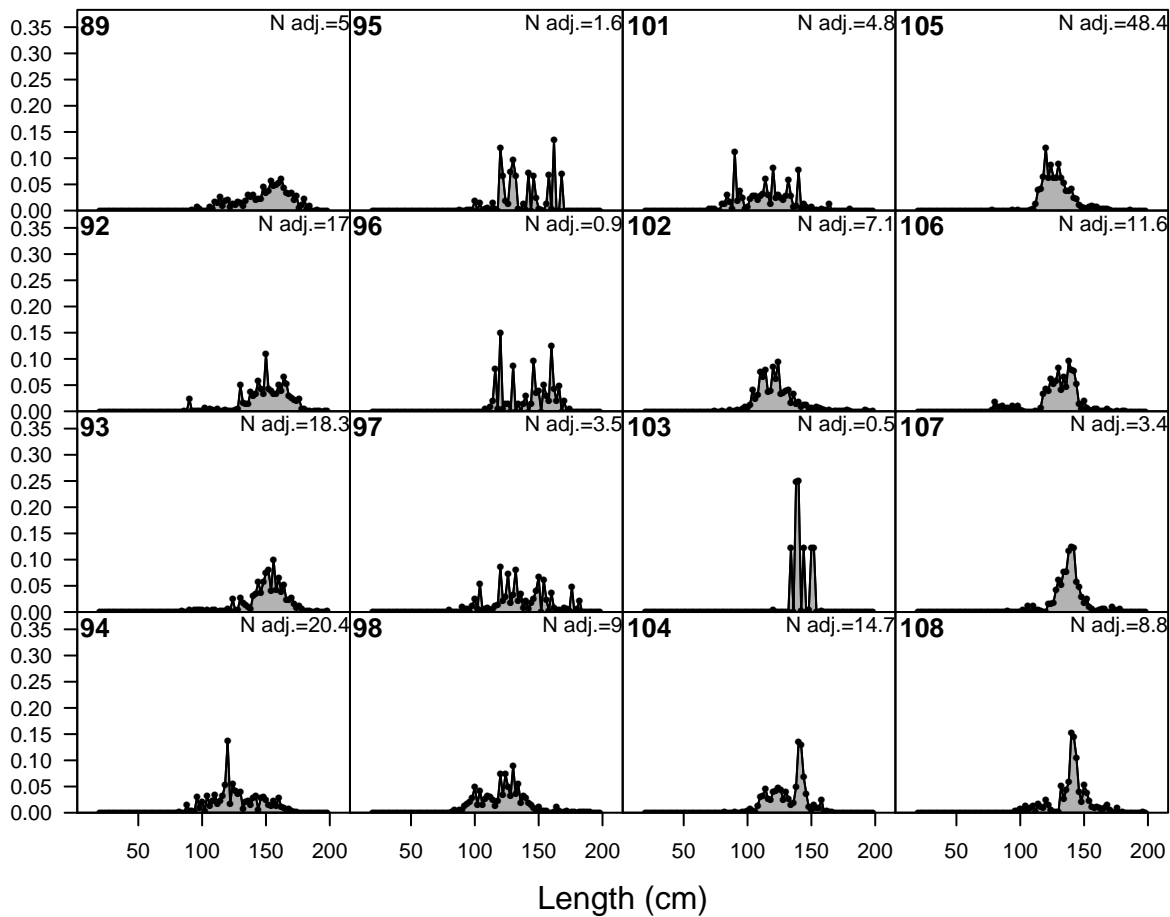
Proportion



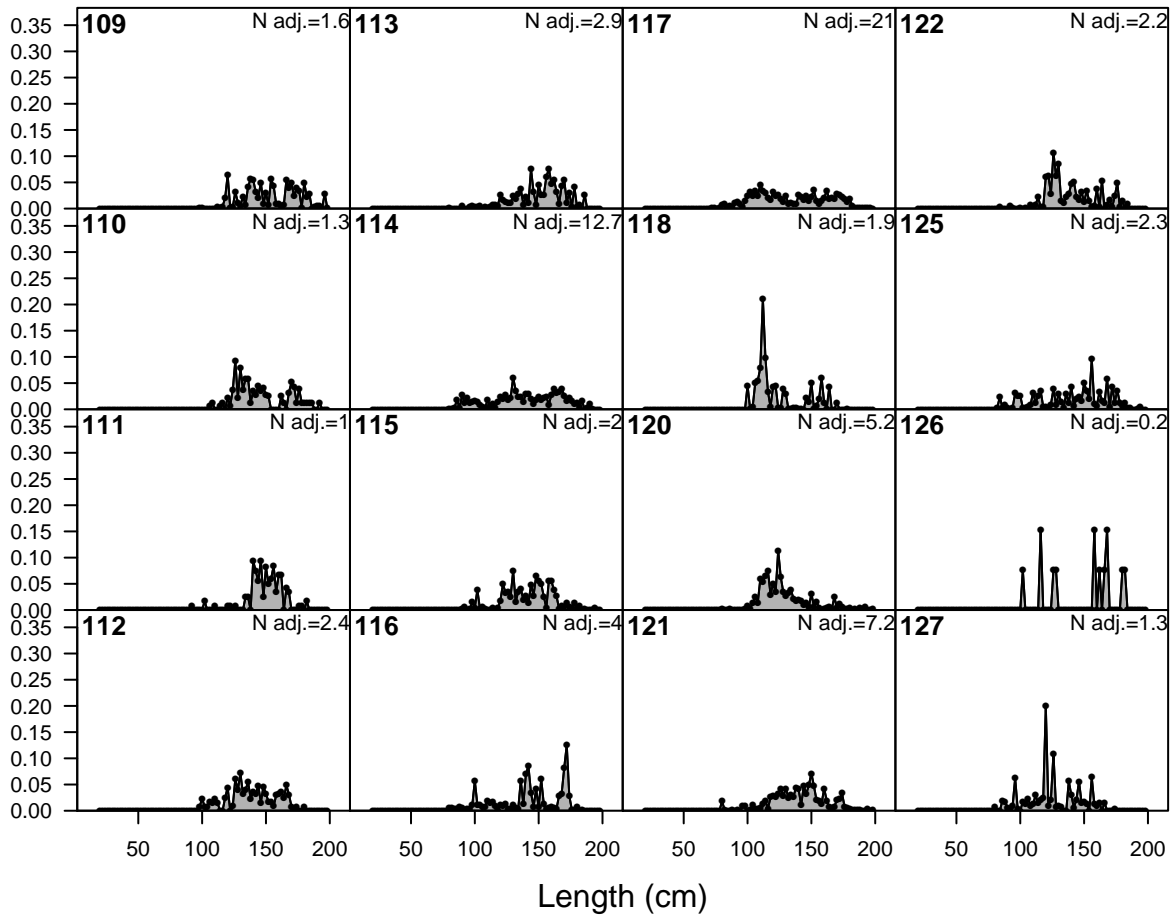
Proportion



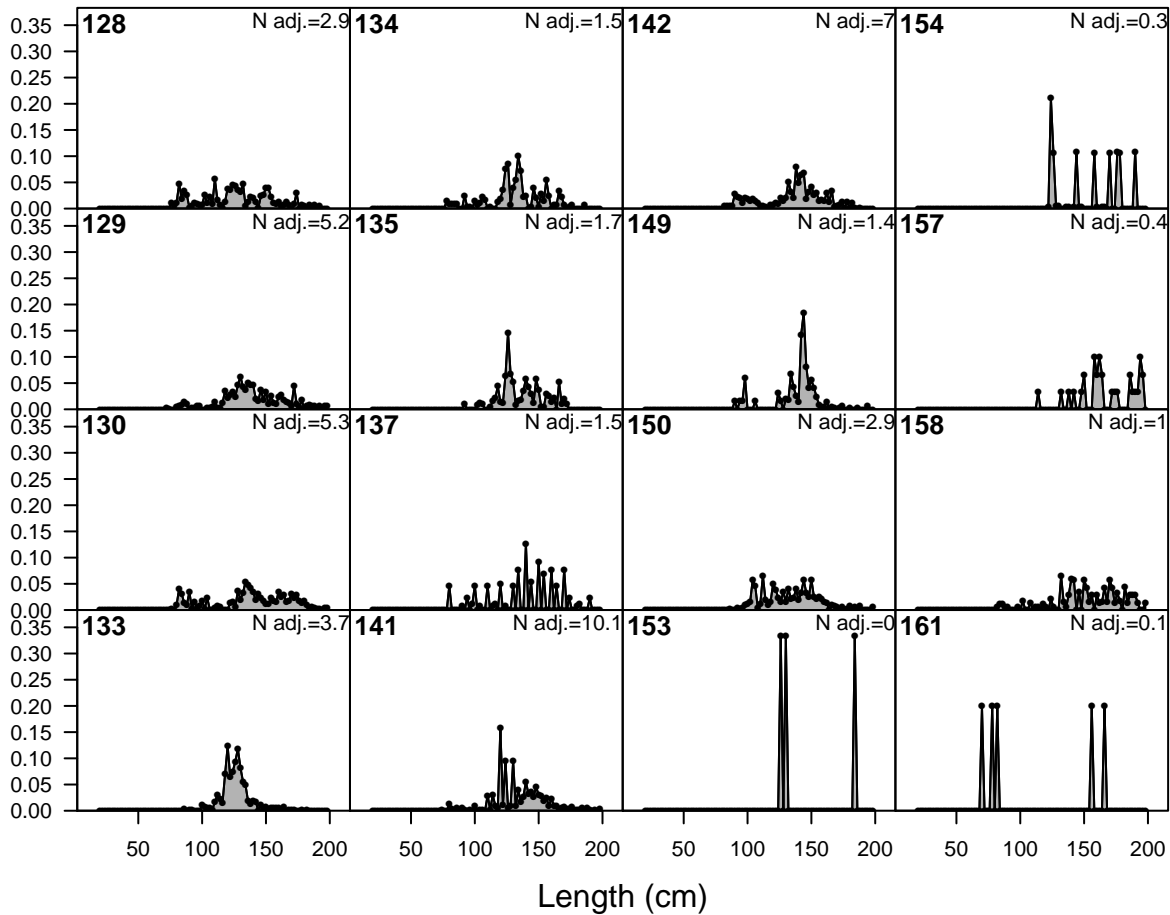
Proportion



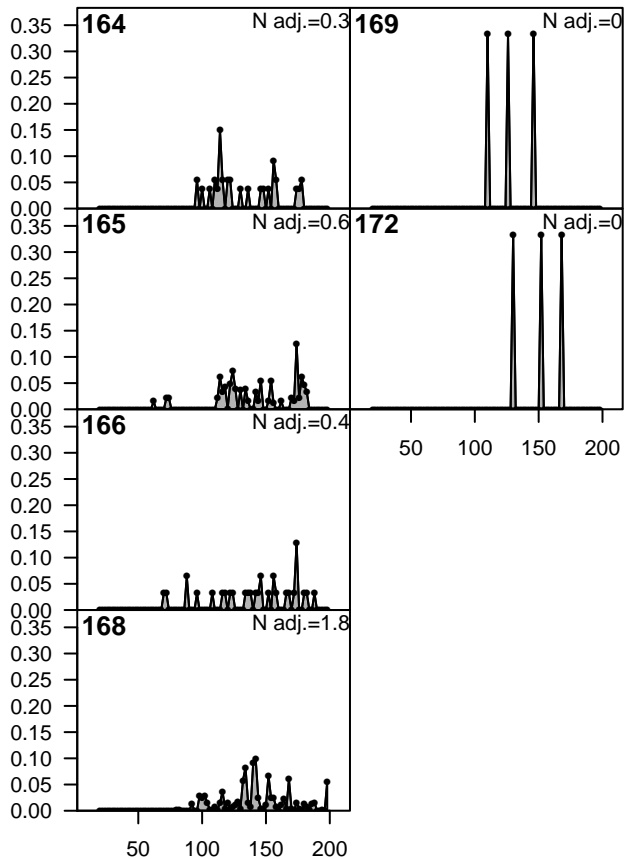
Proportion



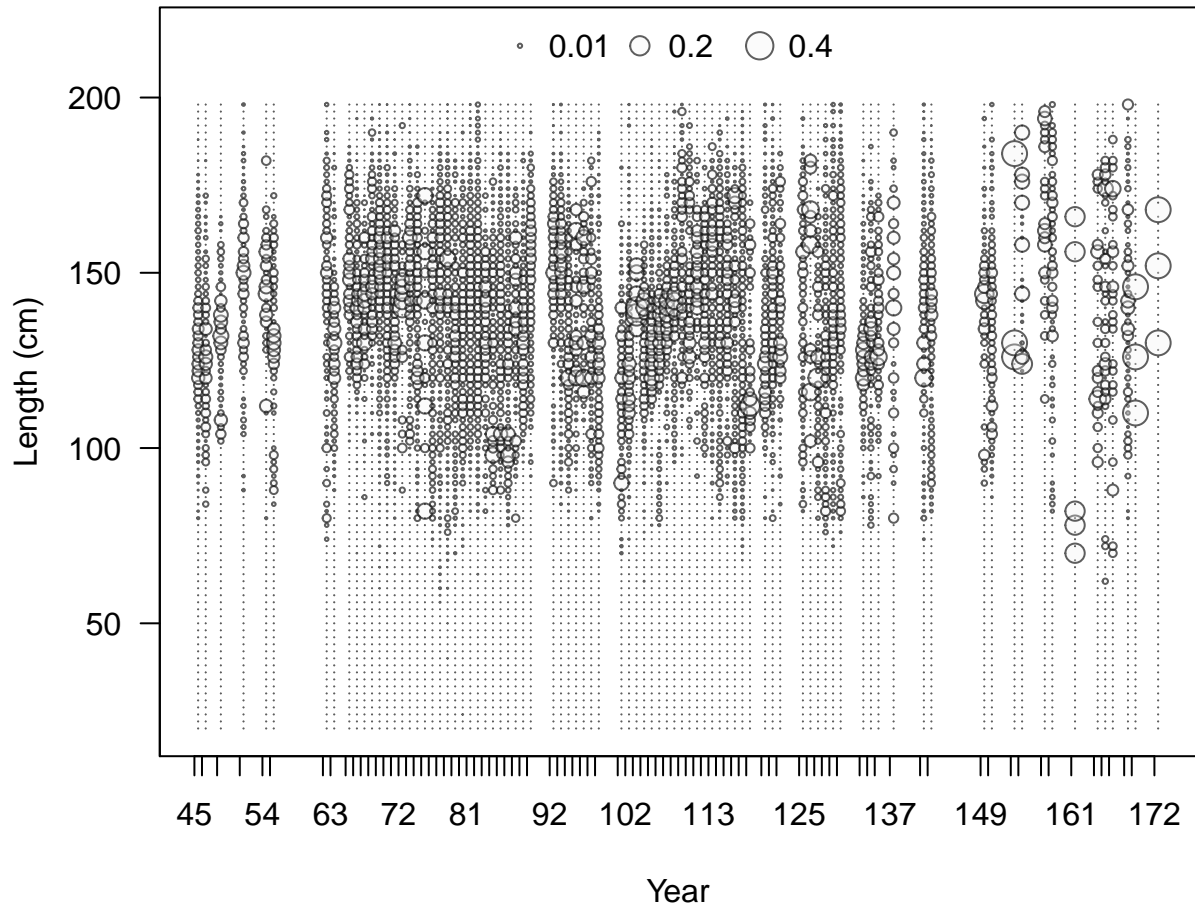
Proportion



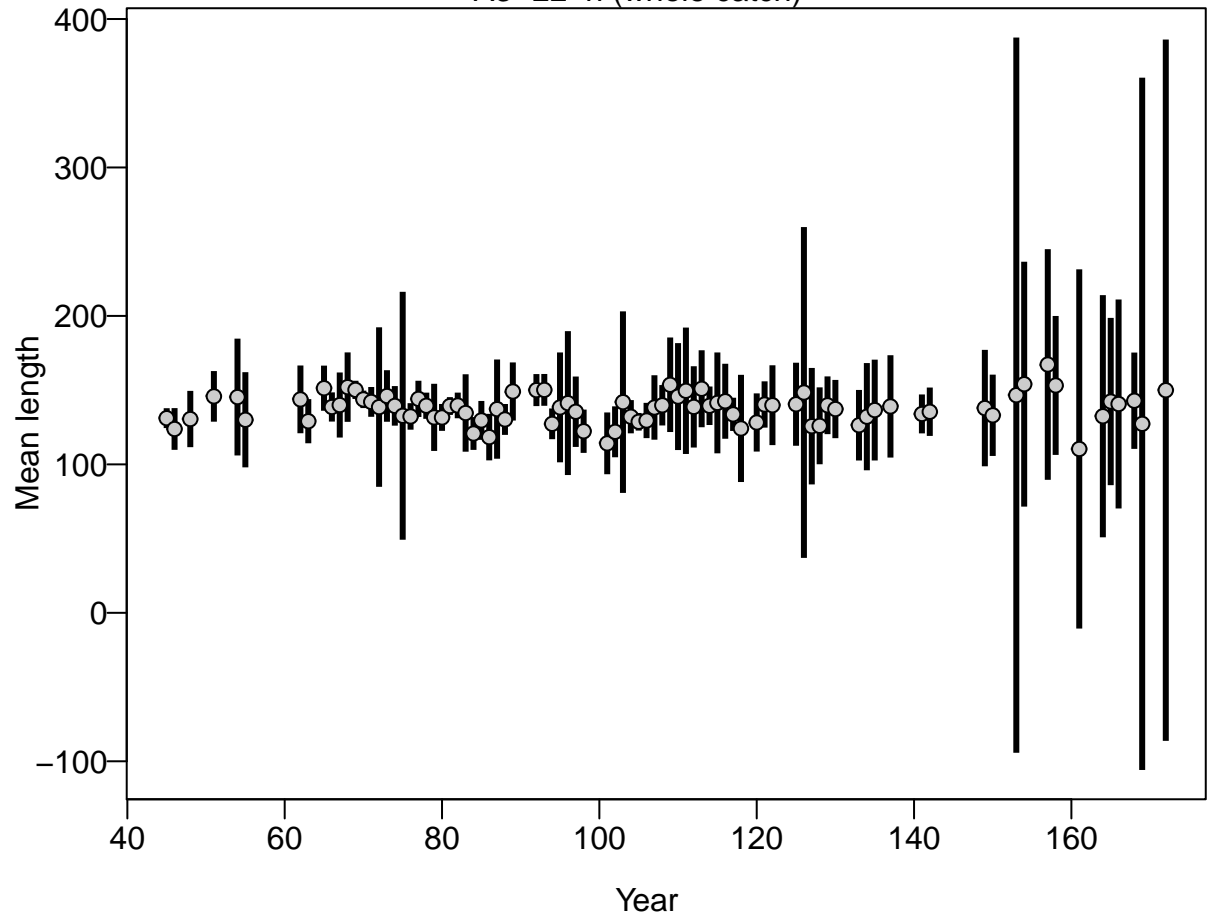
Proportion



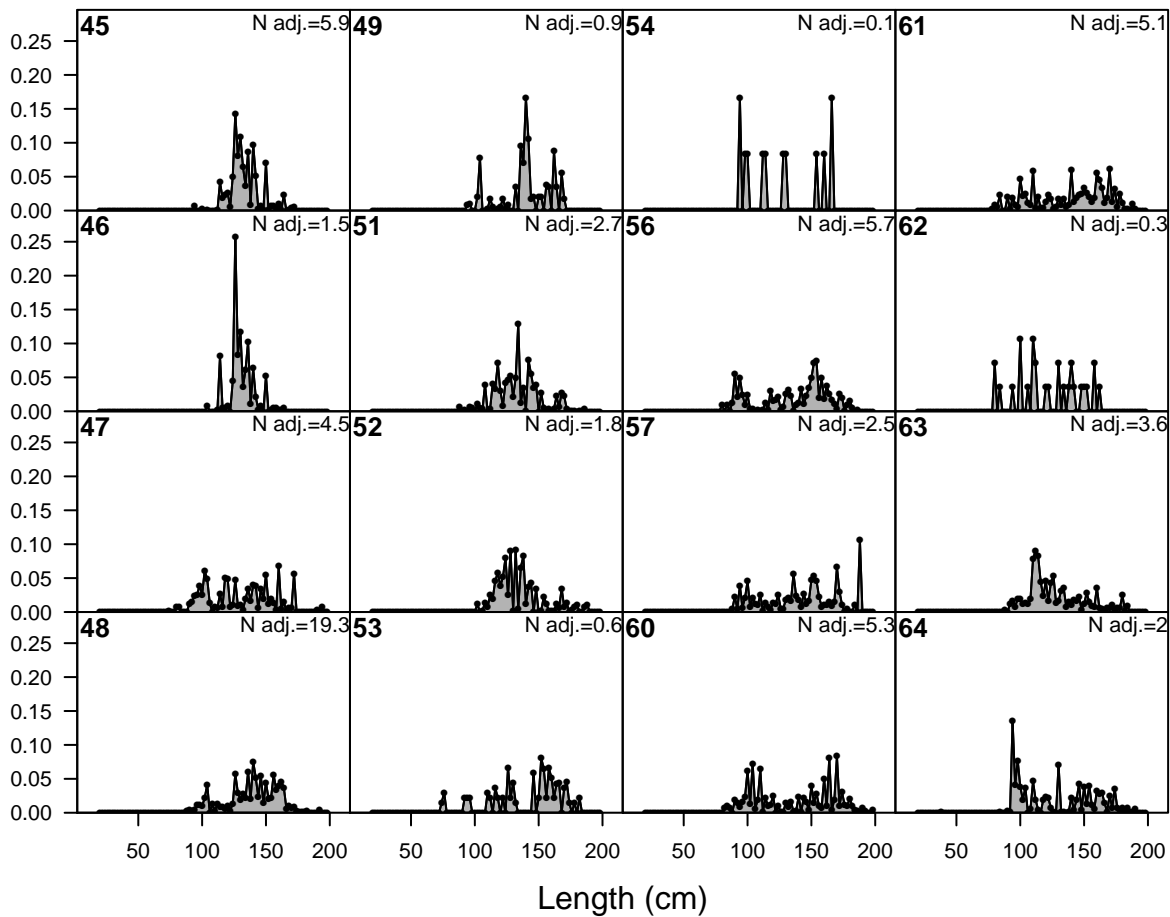
Length (cm)



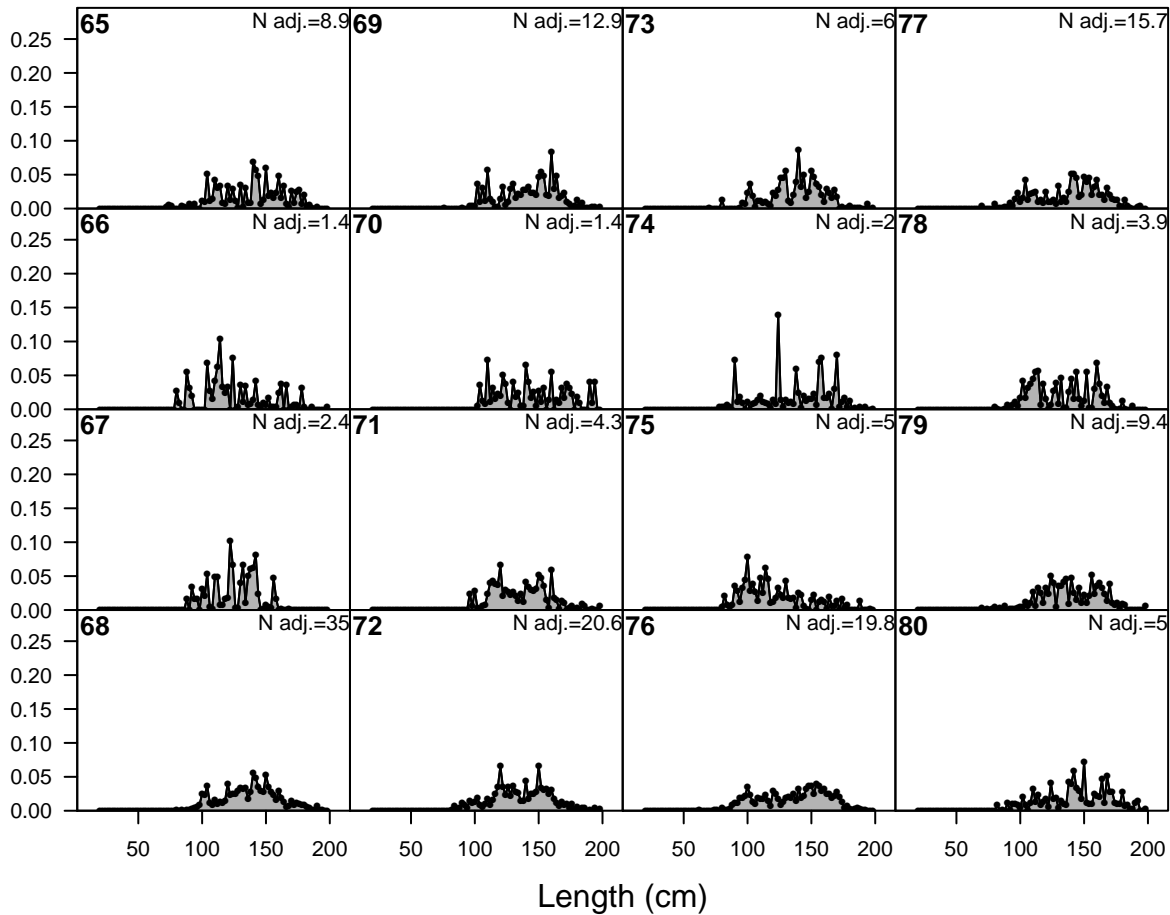
A3-LL-n (whole catch)



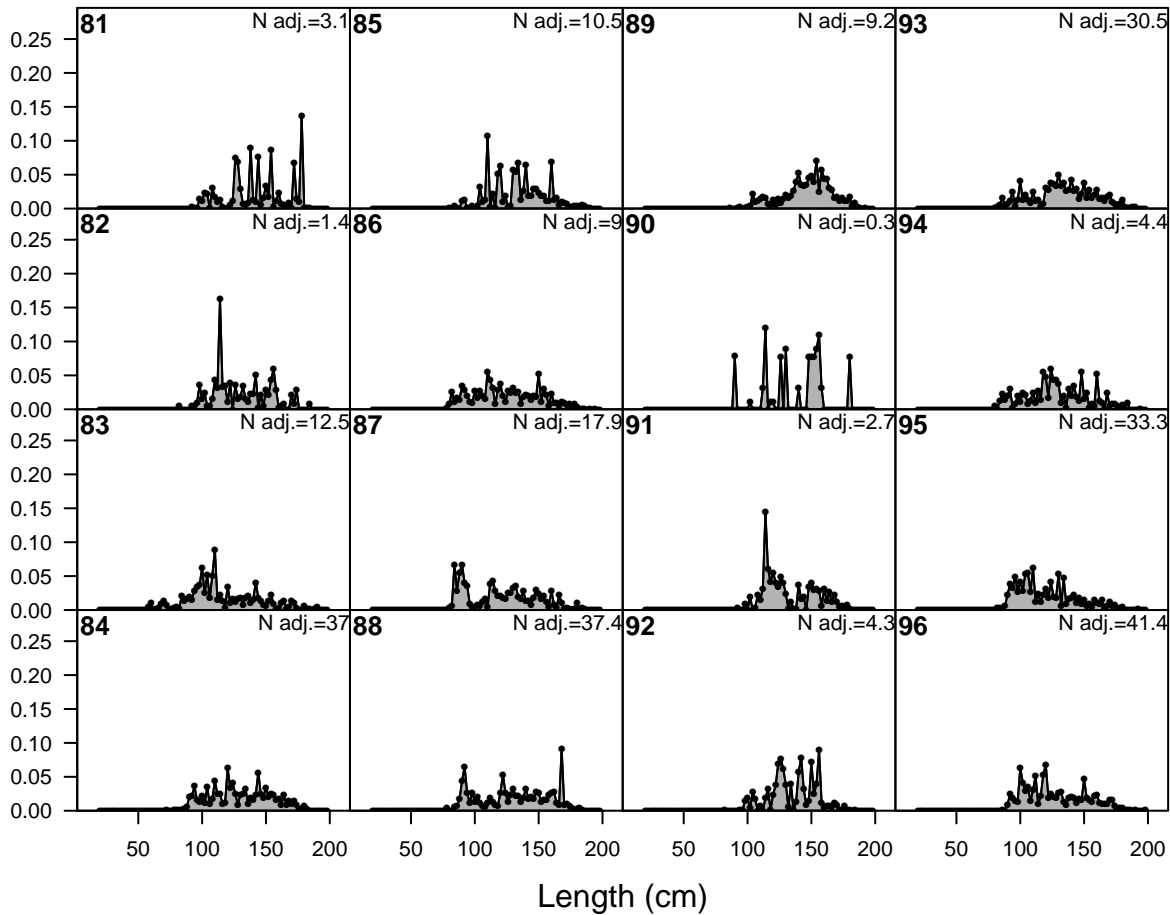
Proportion



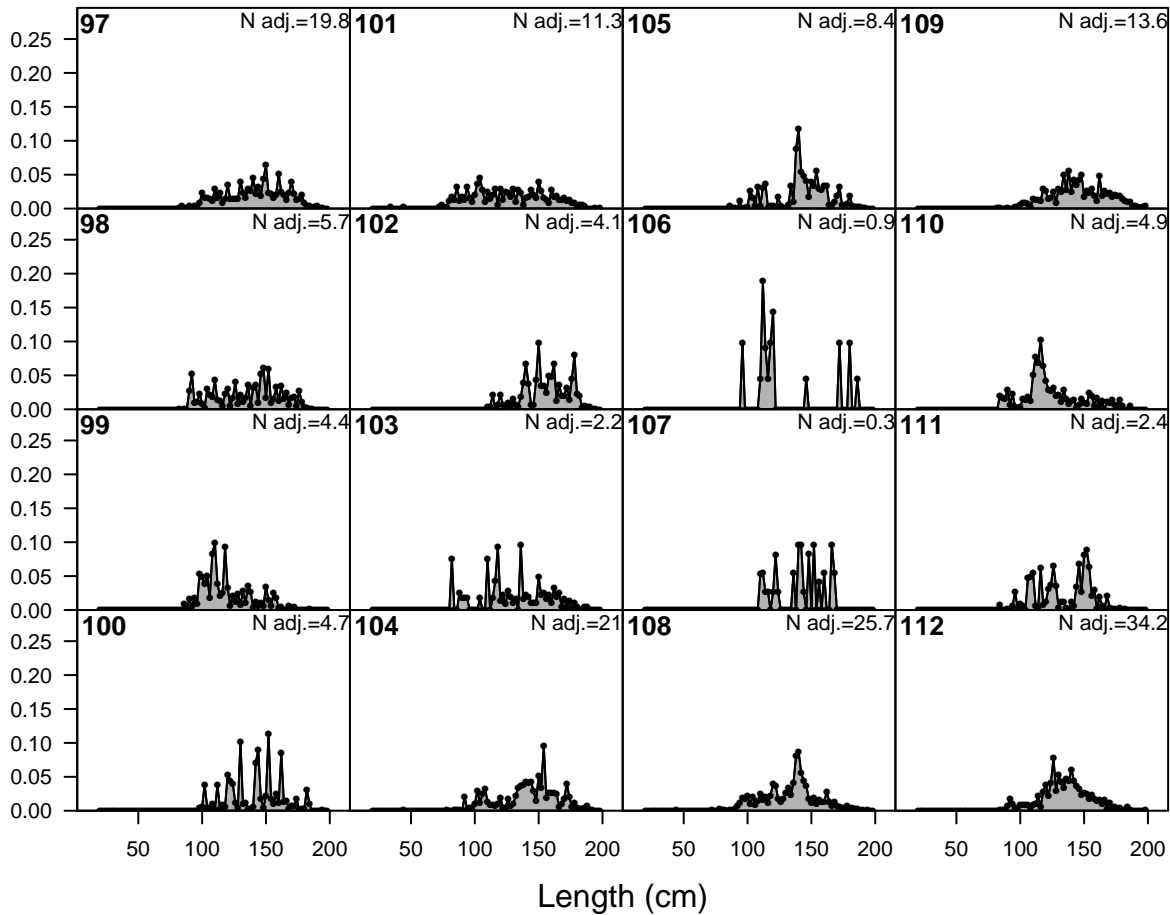
Proportion



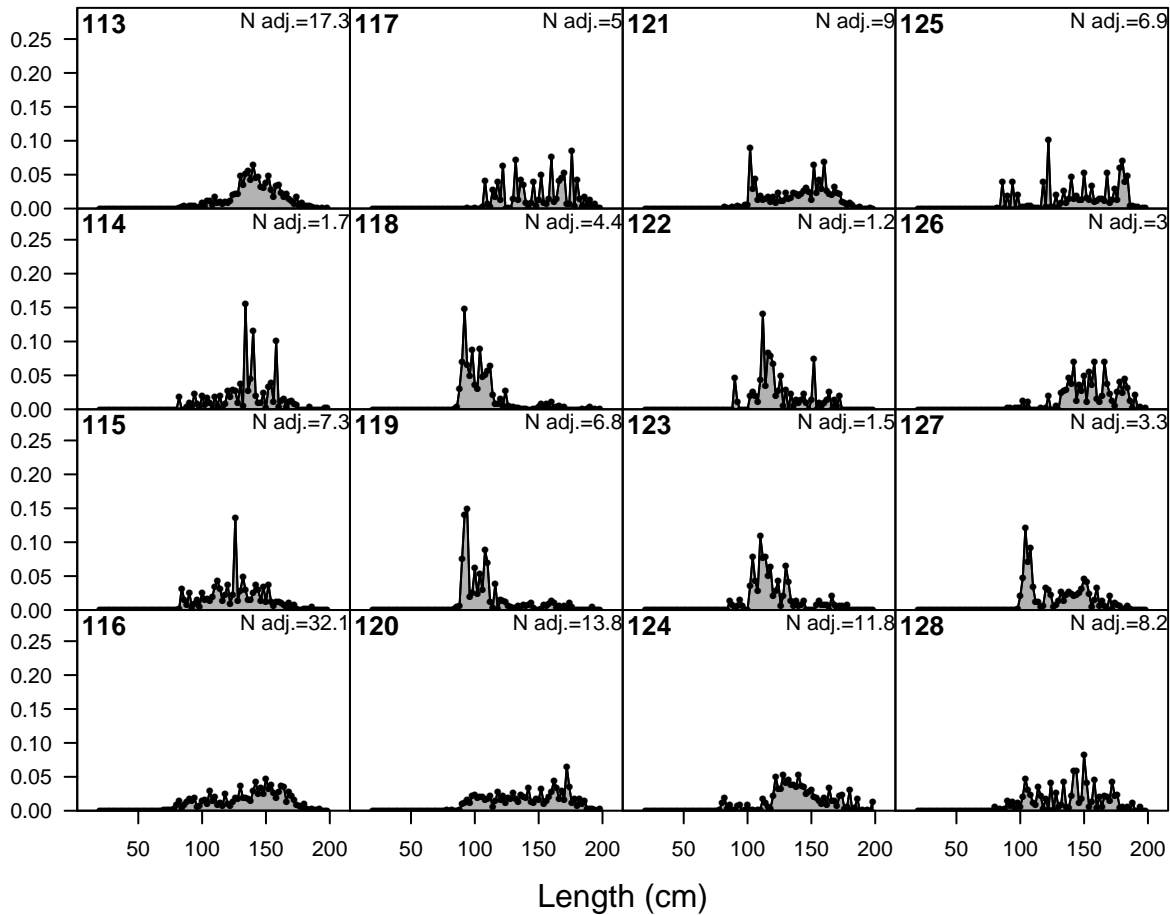
Proportion



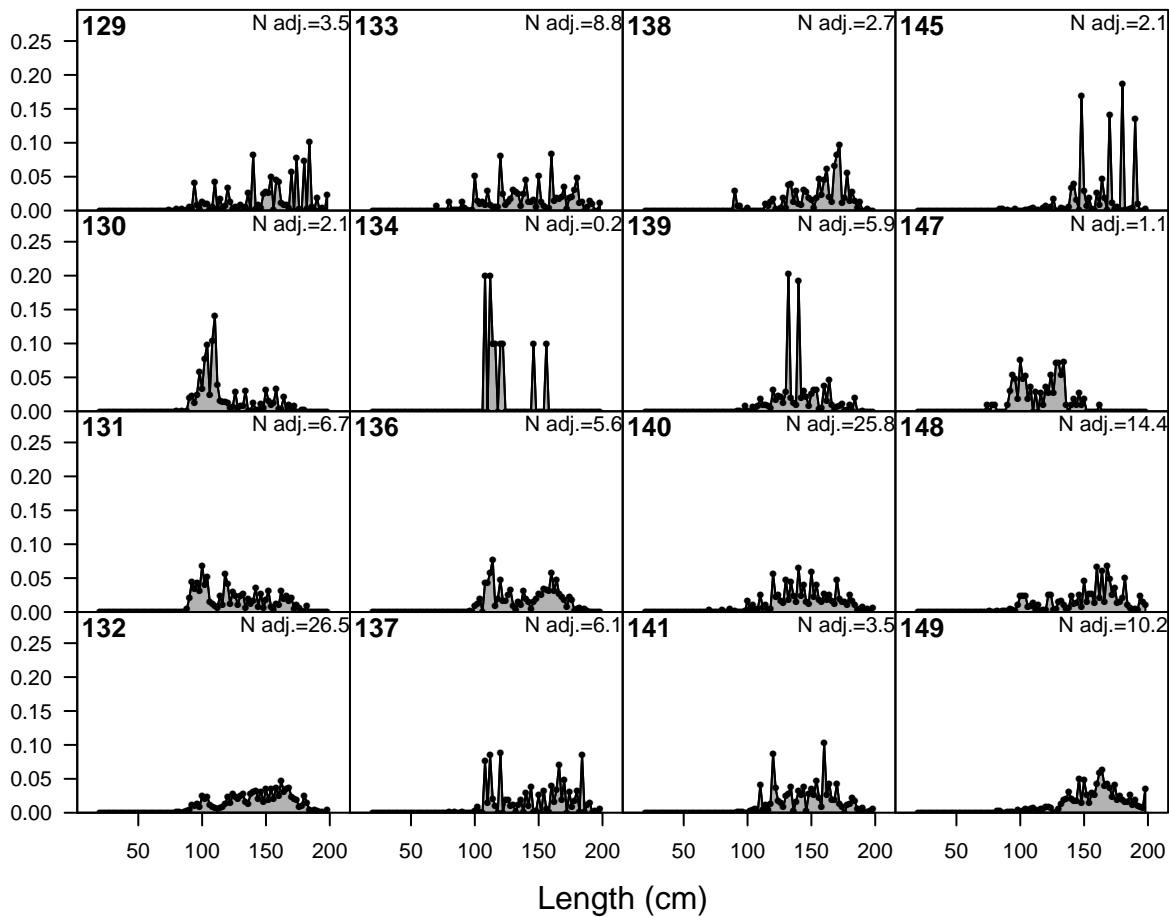
Proportion



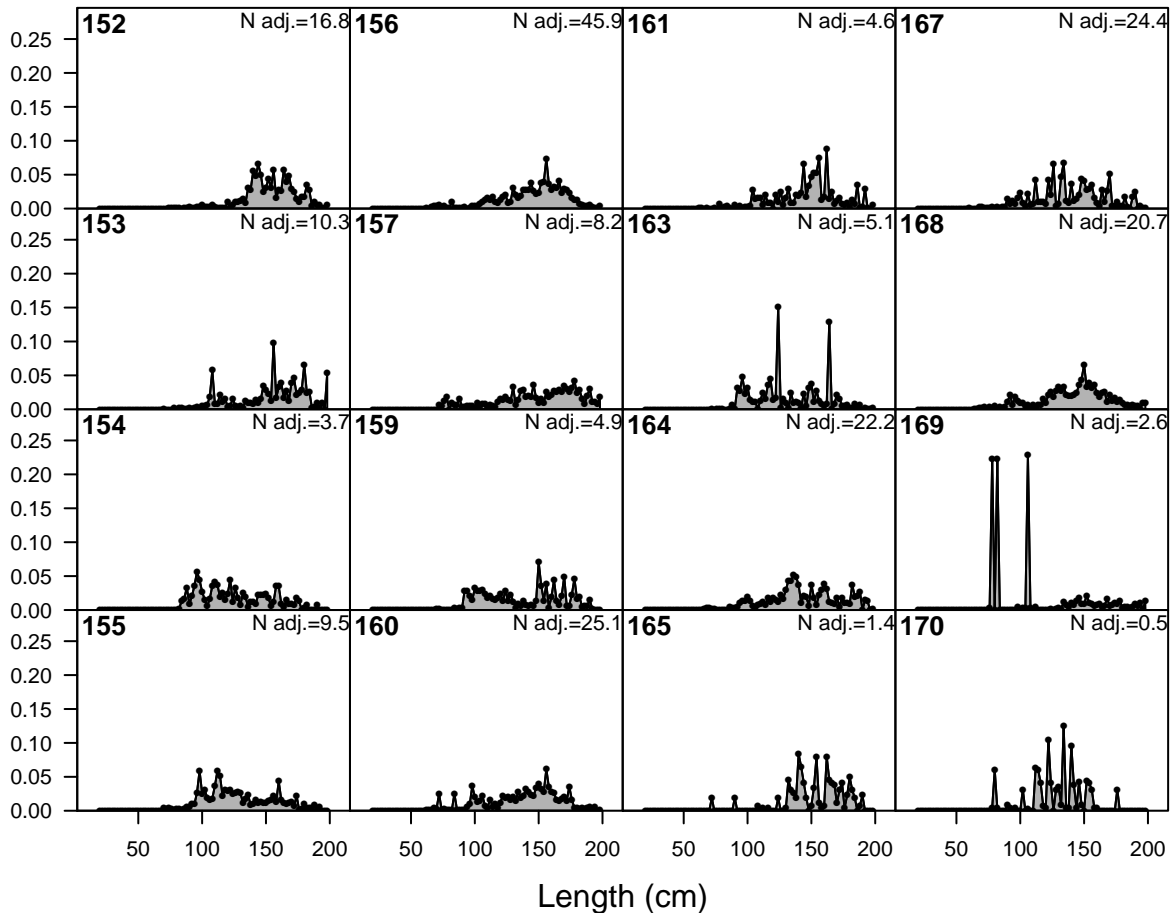
Proportion



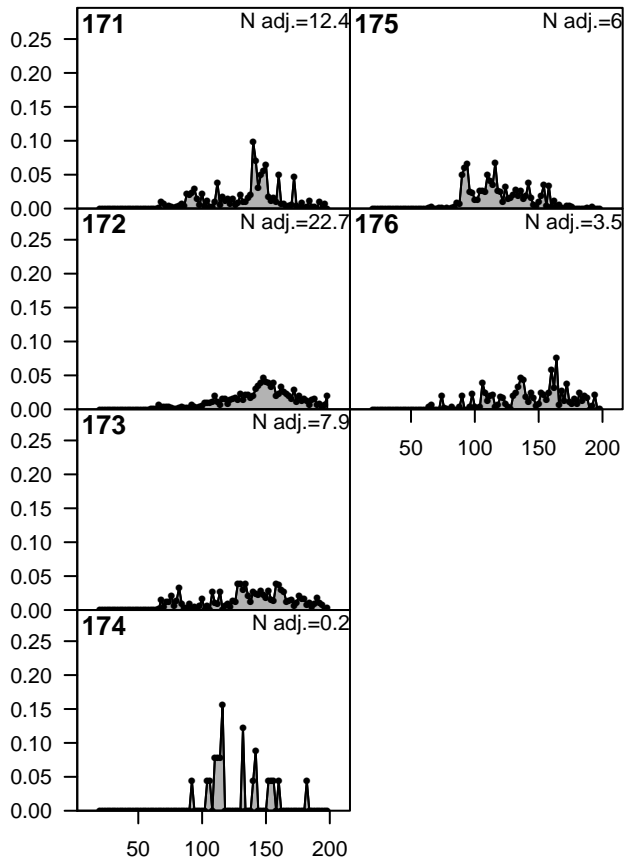
Proportion



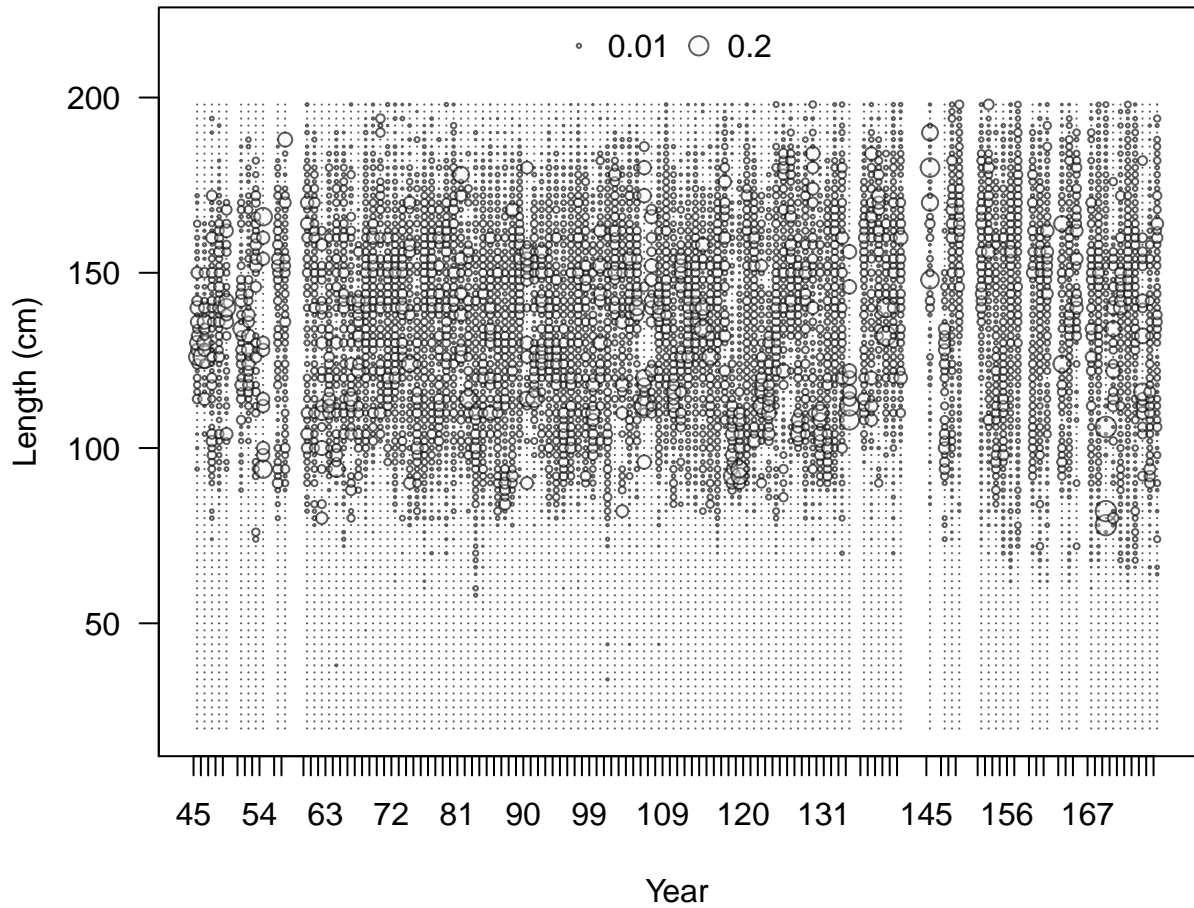
Proportion



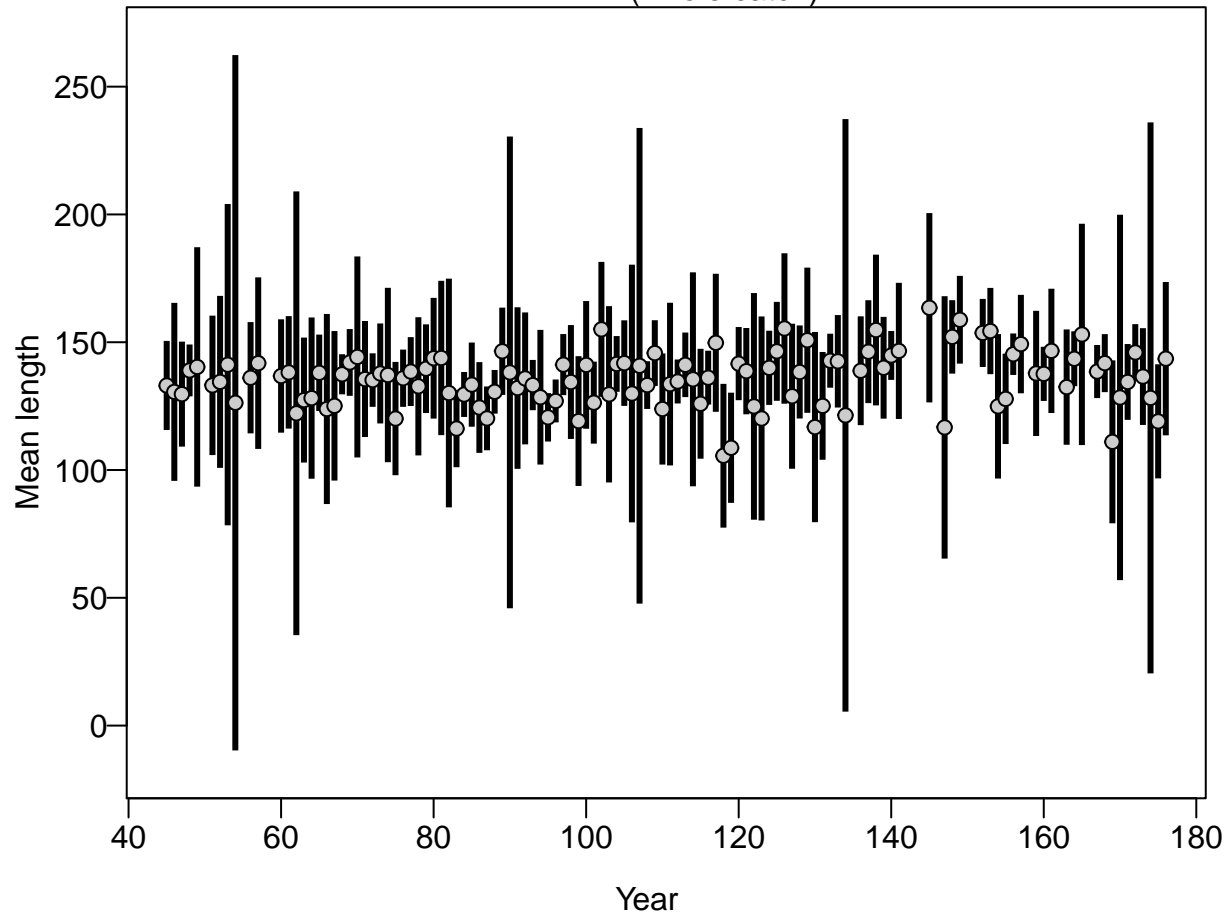
Proportion



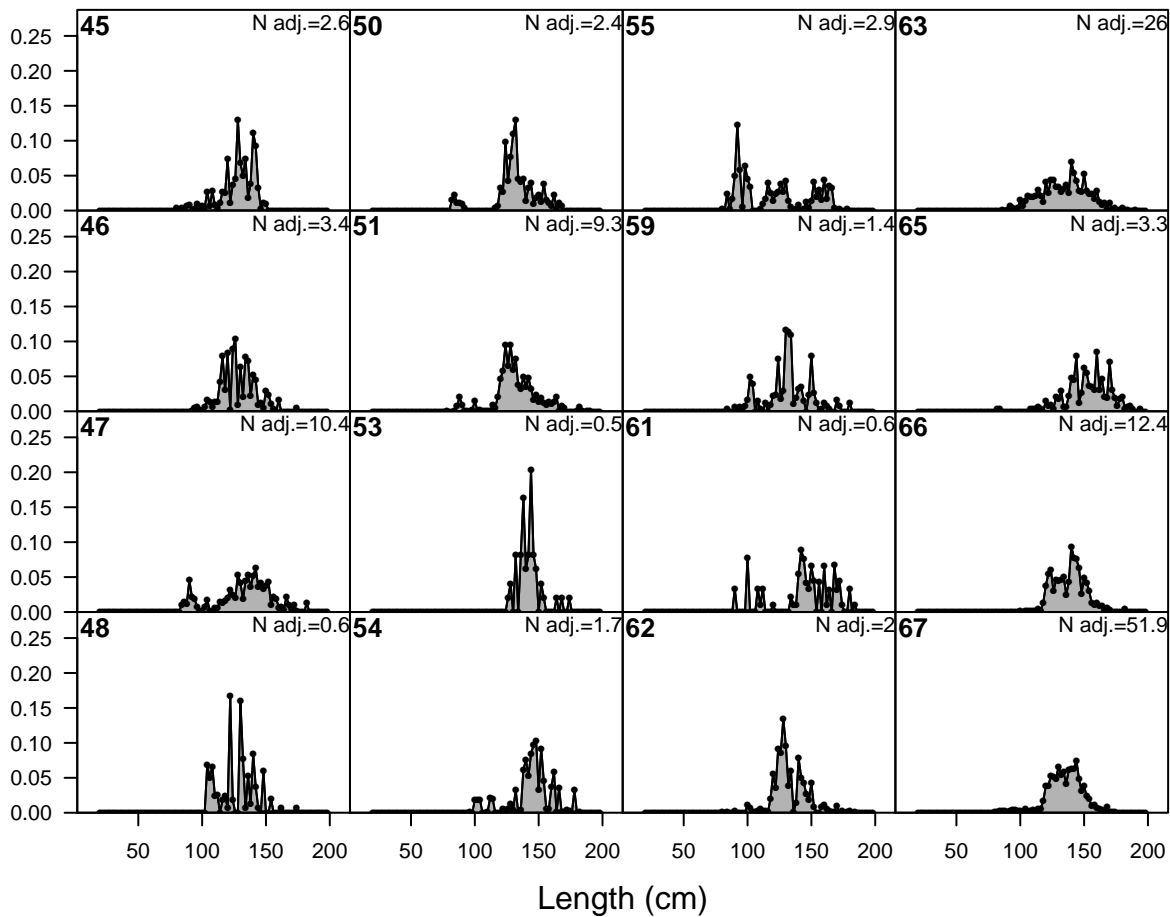
Length (cm)



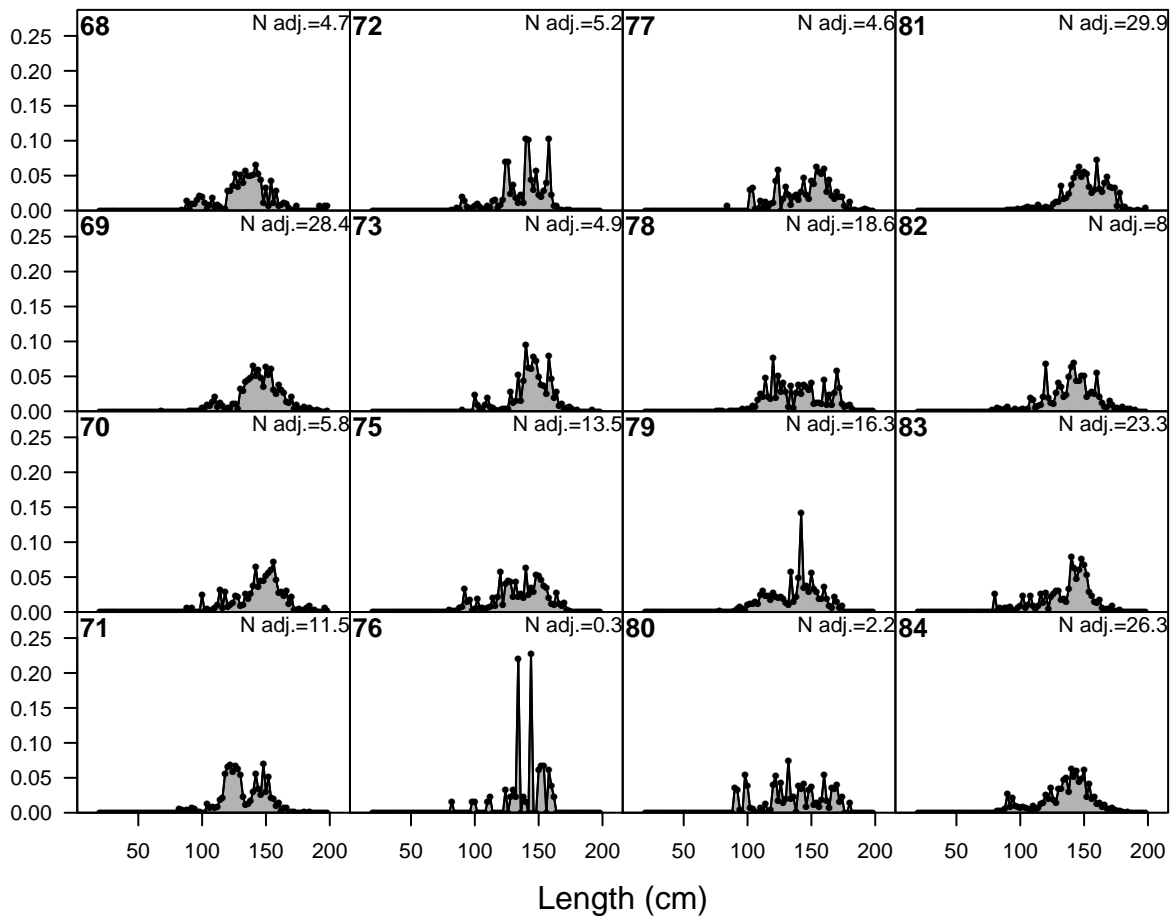
A4-LL-n (whole catch)



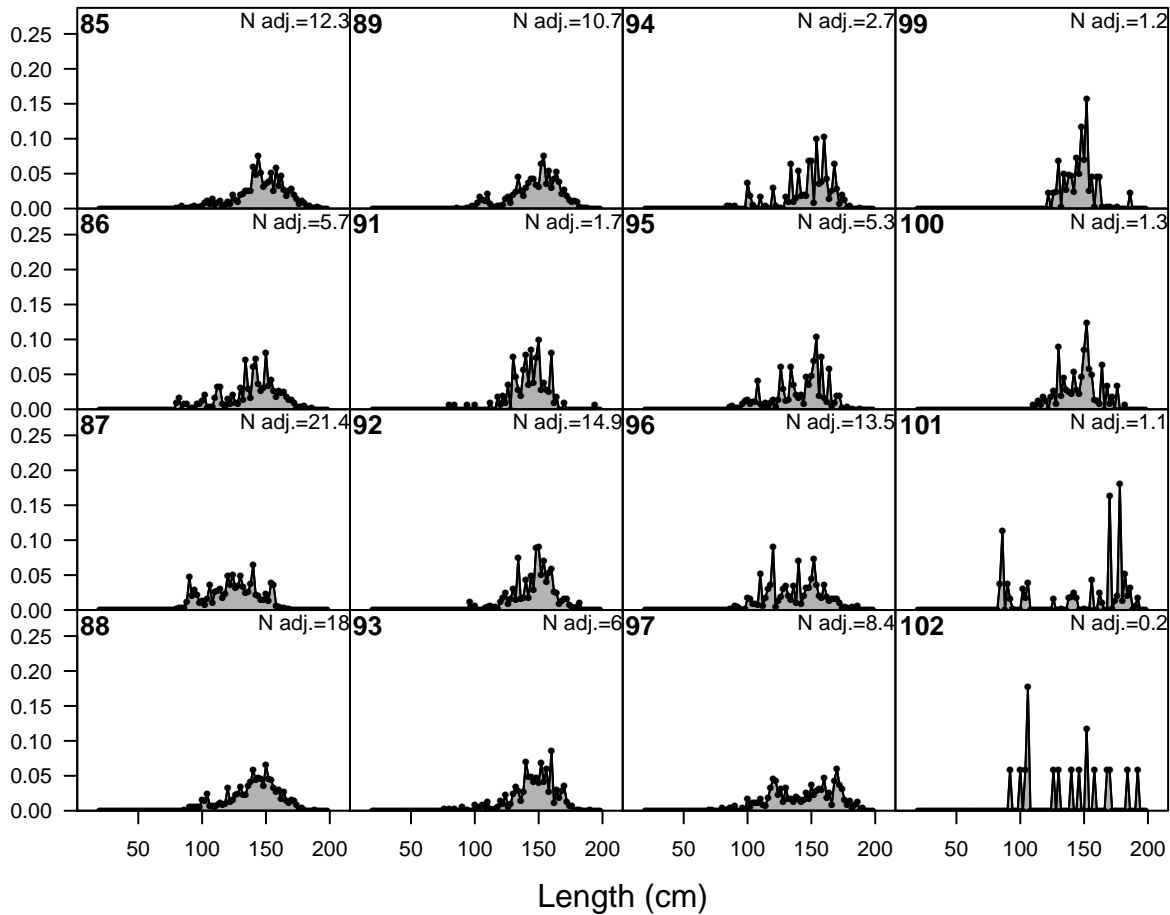
Proportion



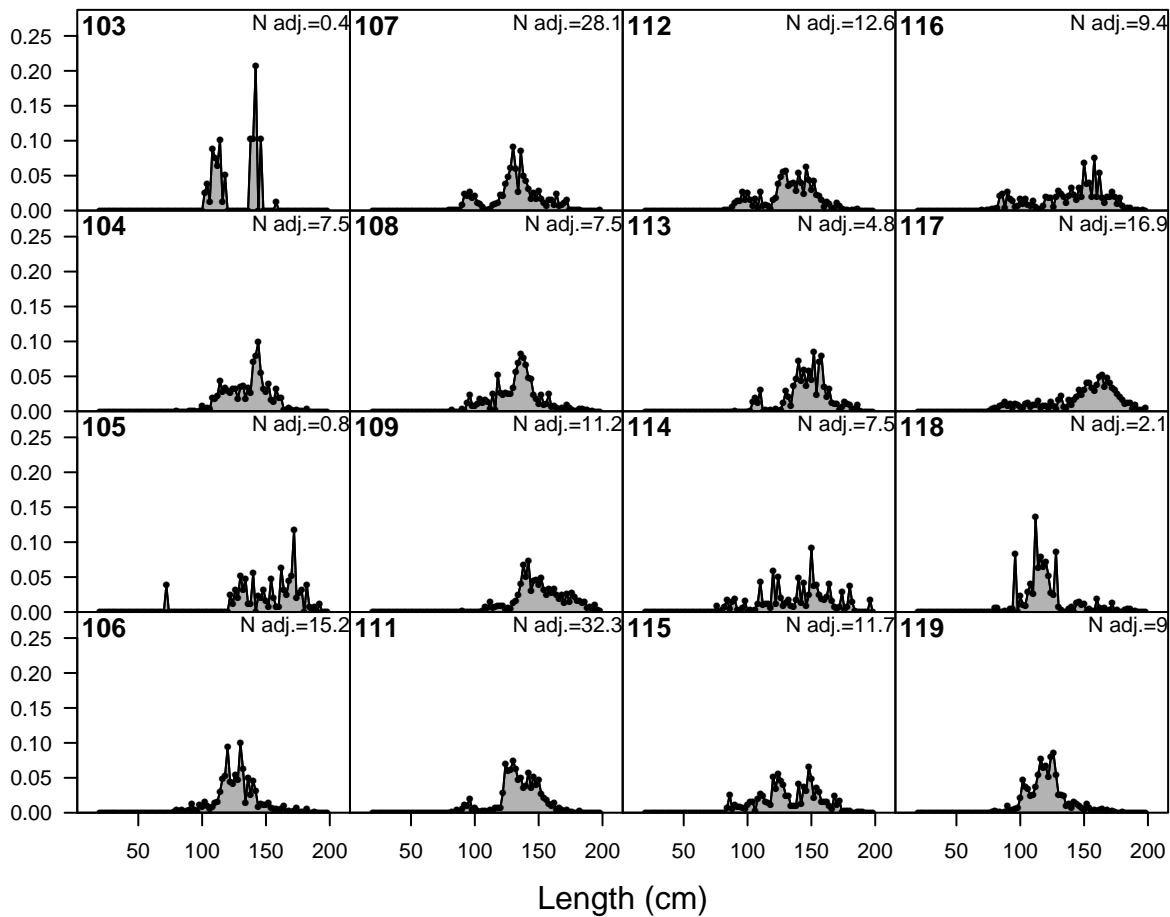
Proportion



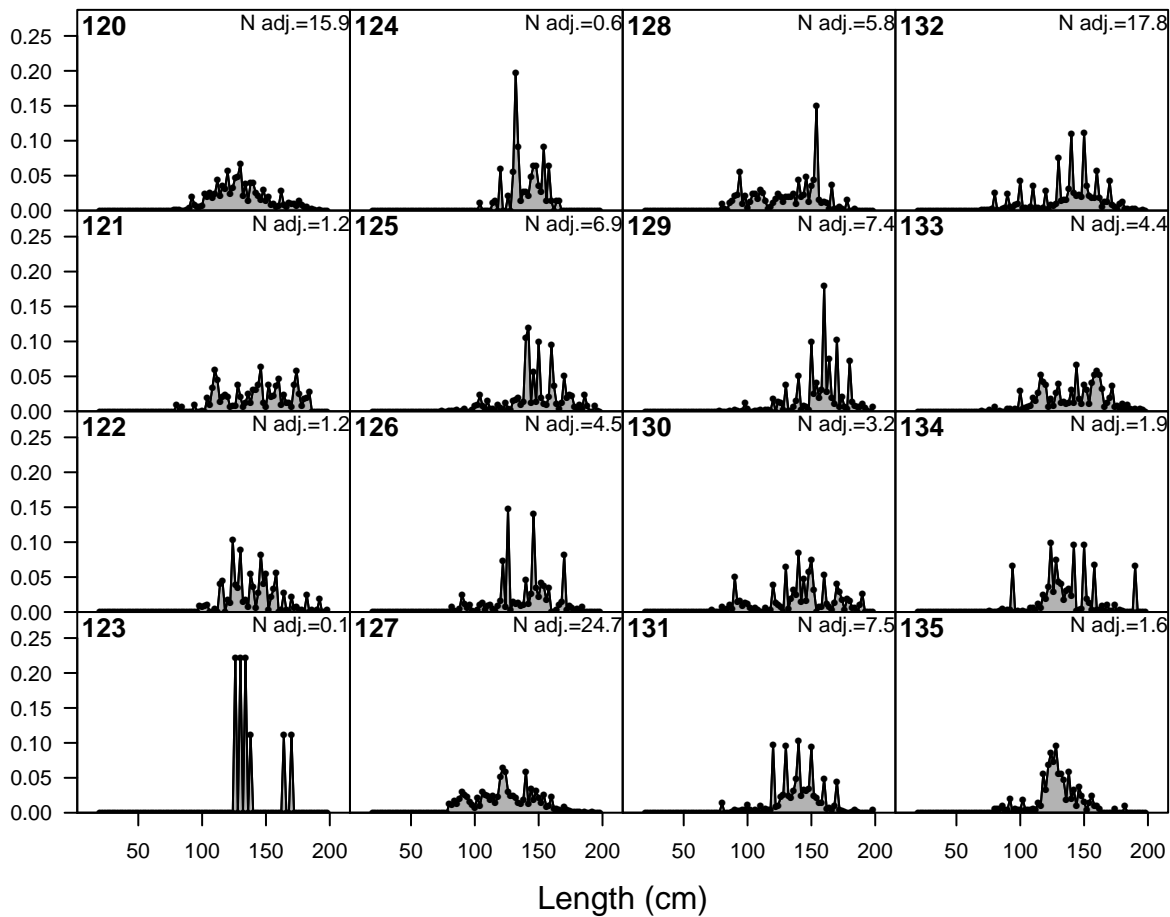
Proportion



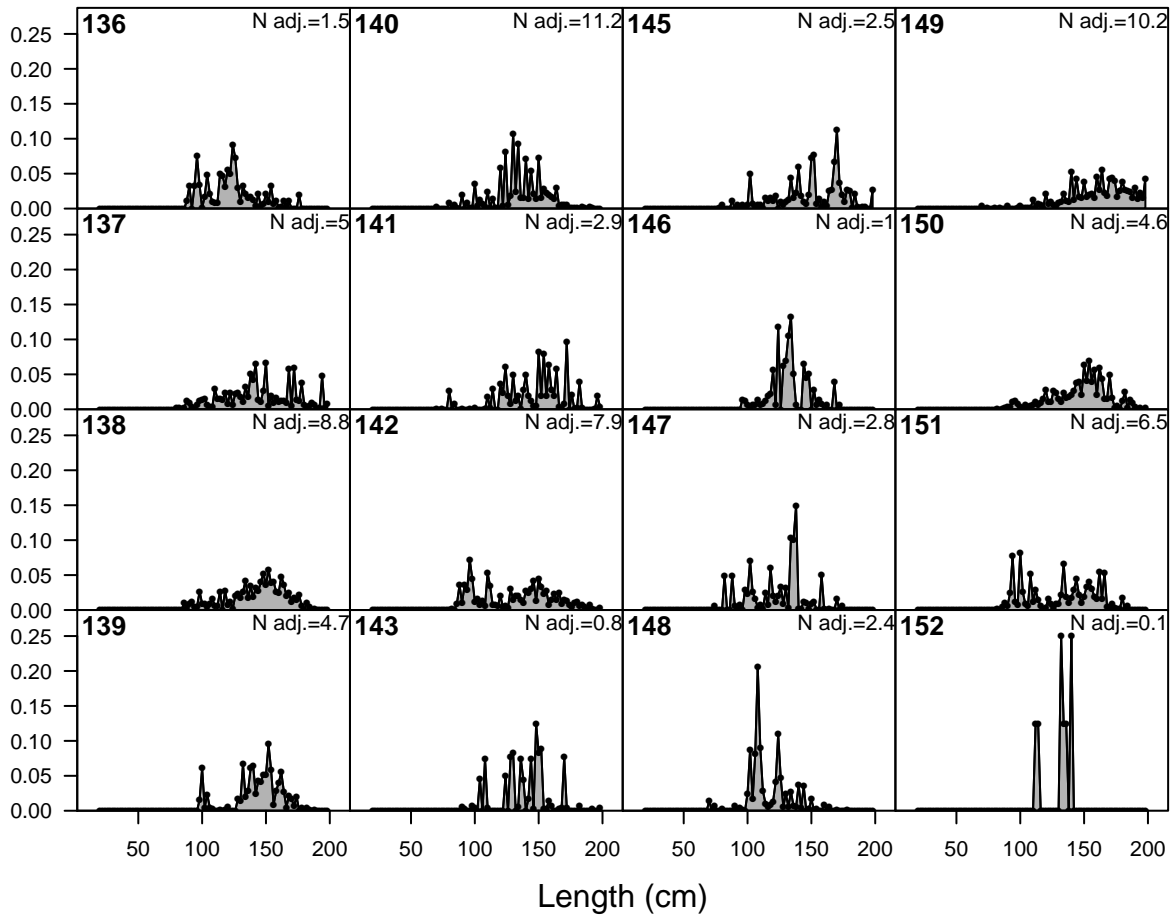
Proportion



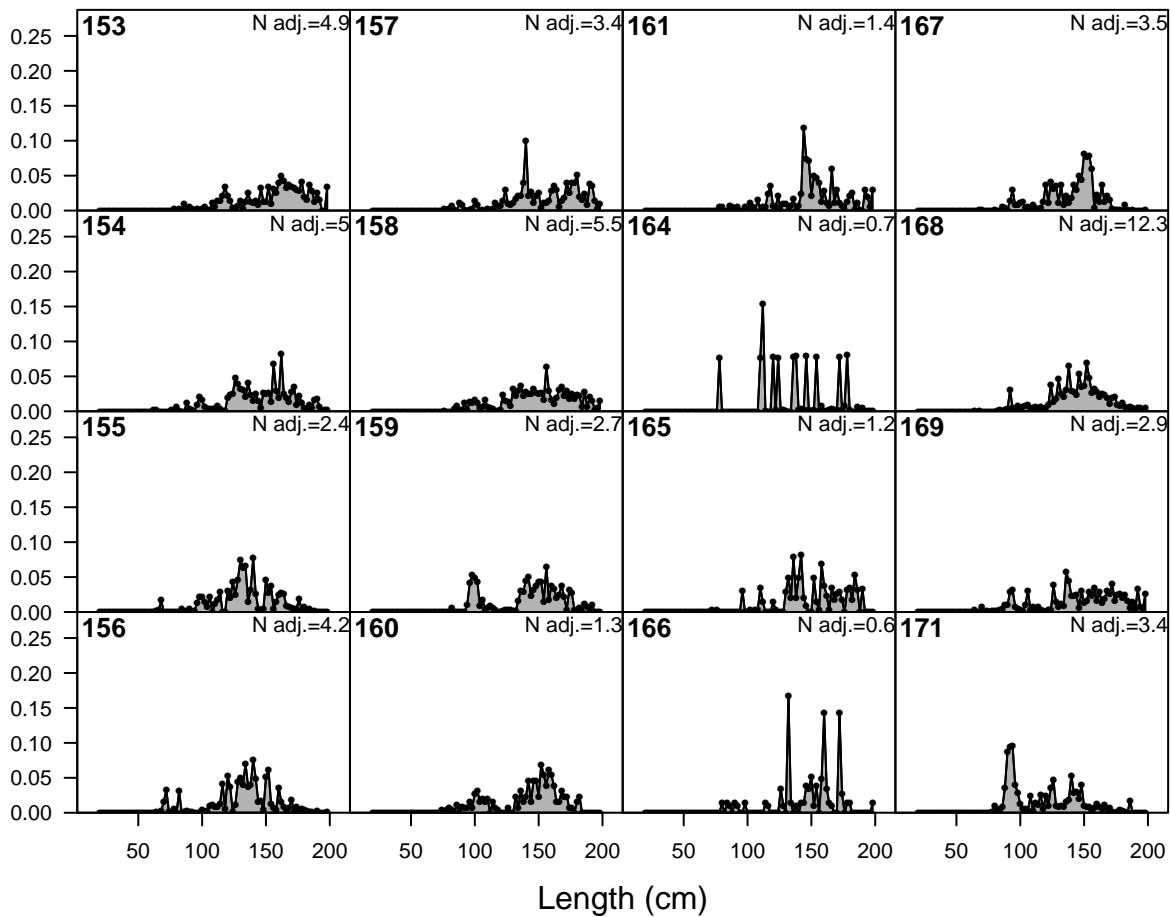
Proportion

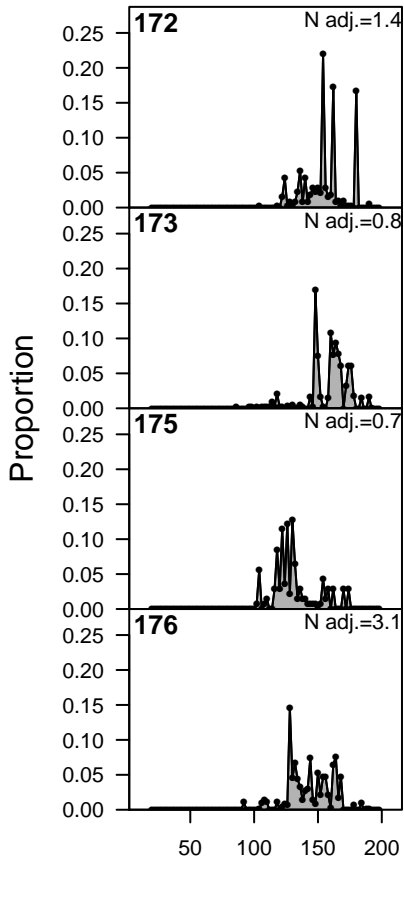


Proportion

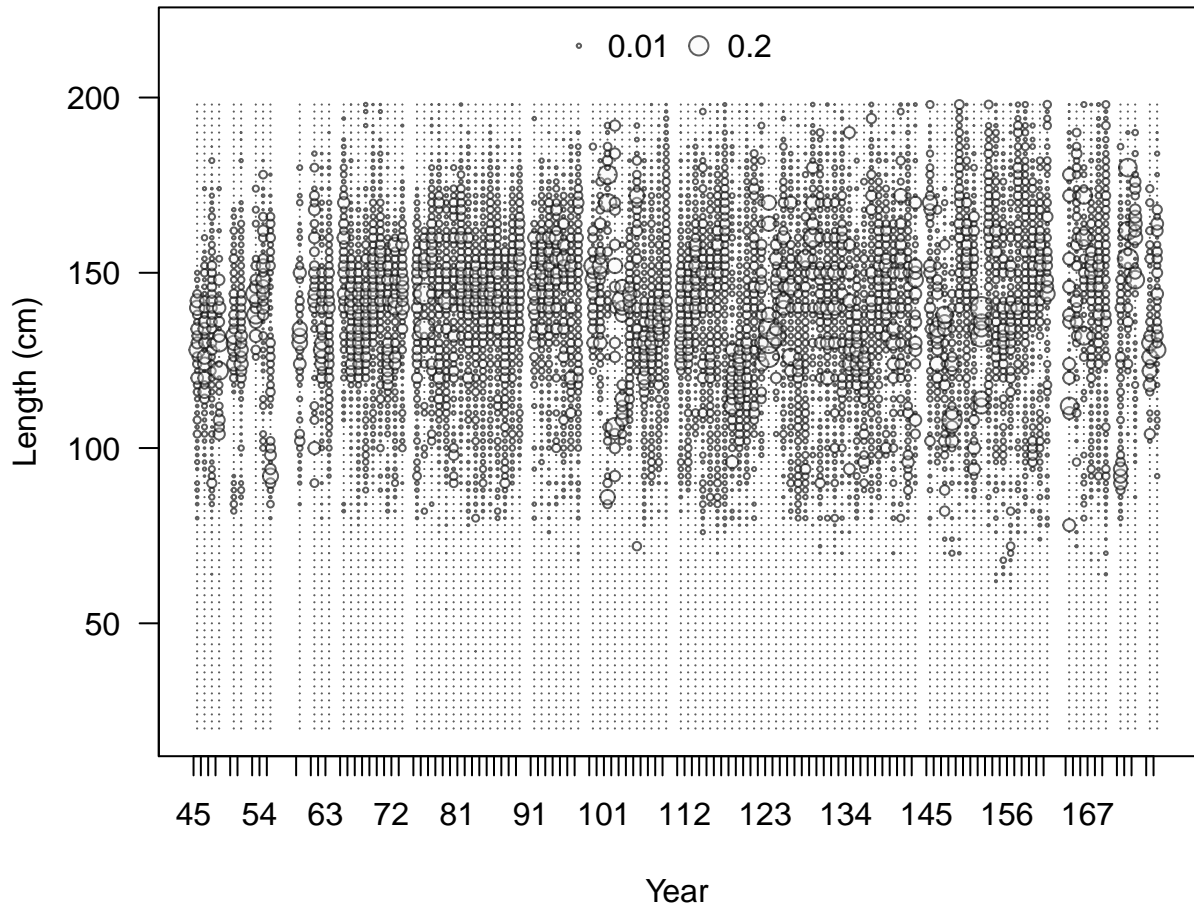


Proportion

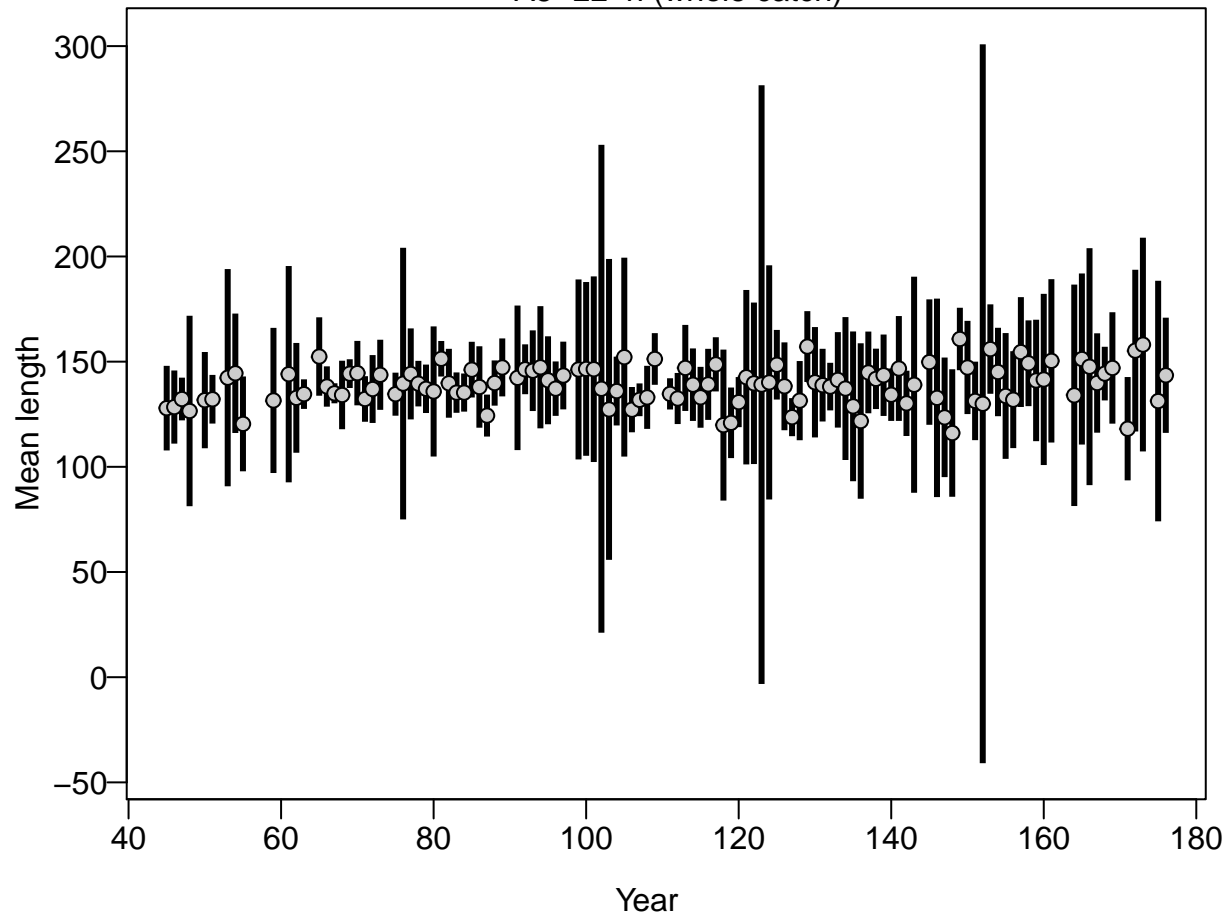


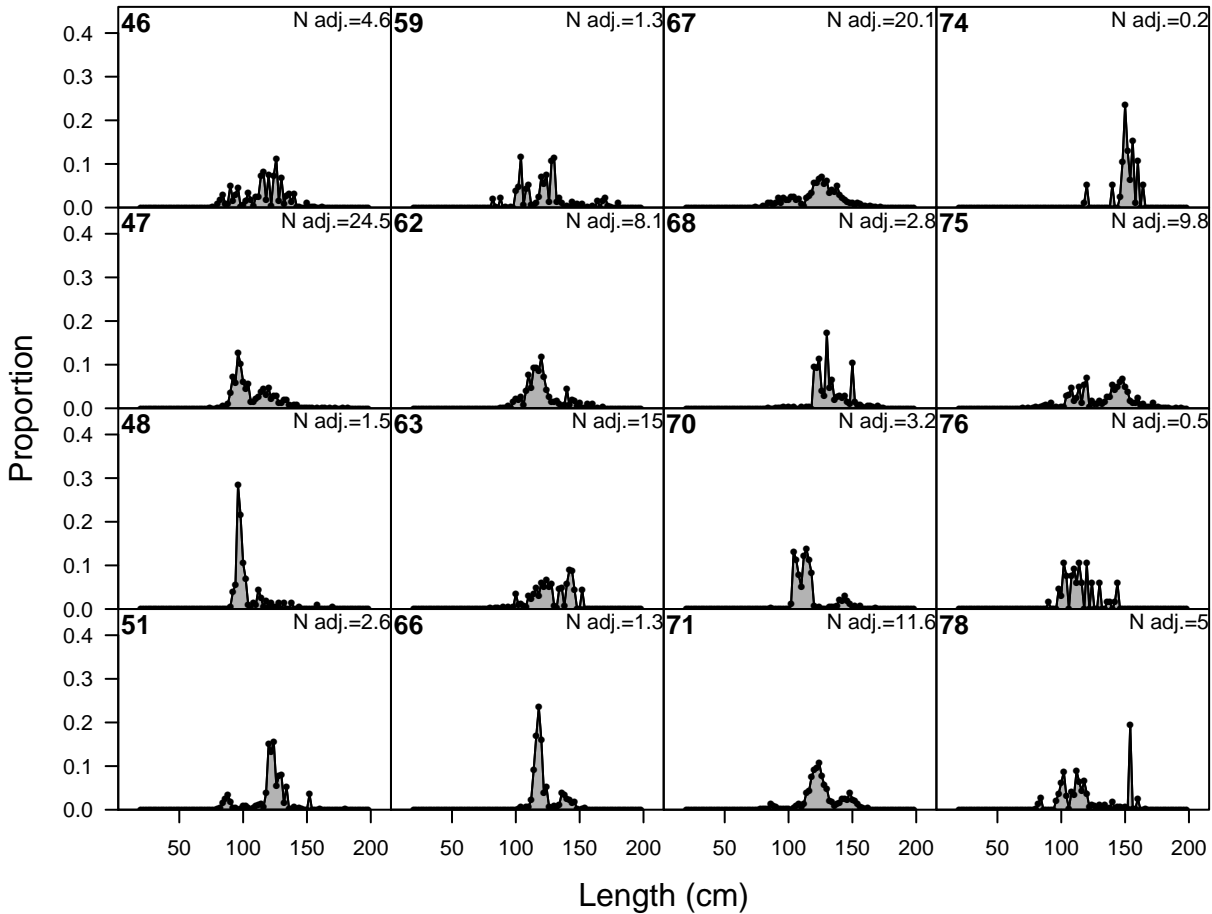


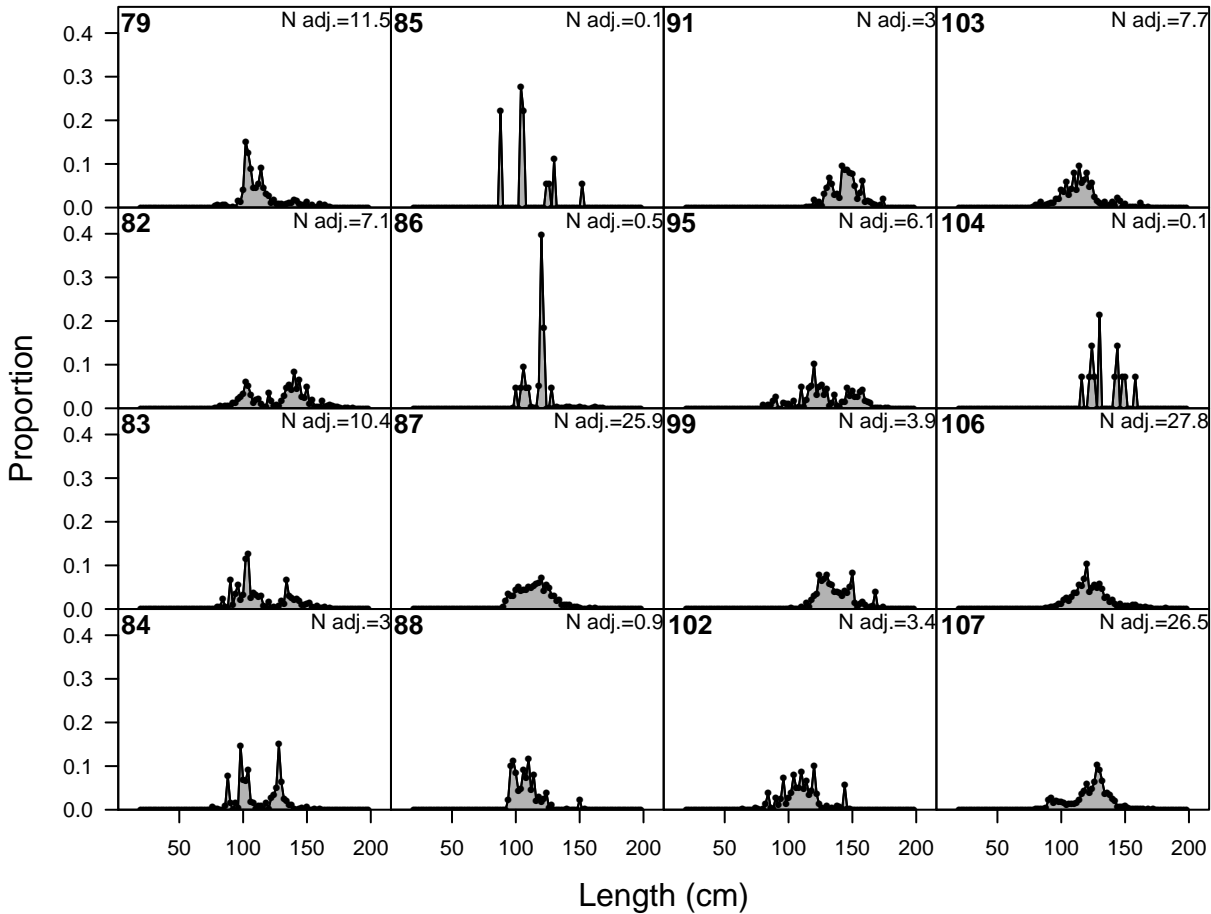
Length (cm)

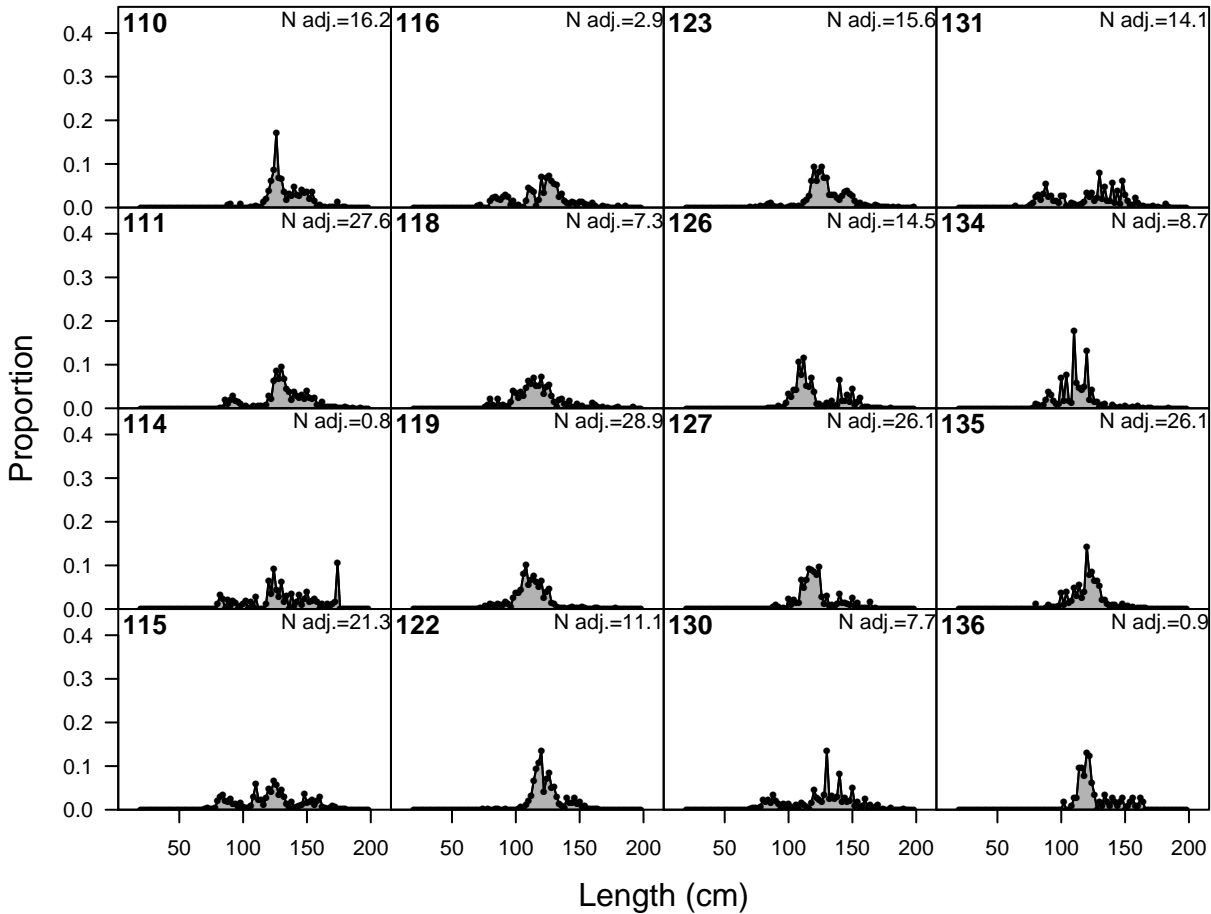


A5-LL-n (whole catch)

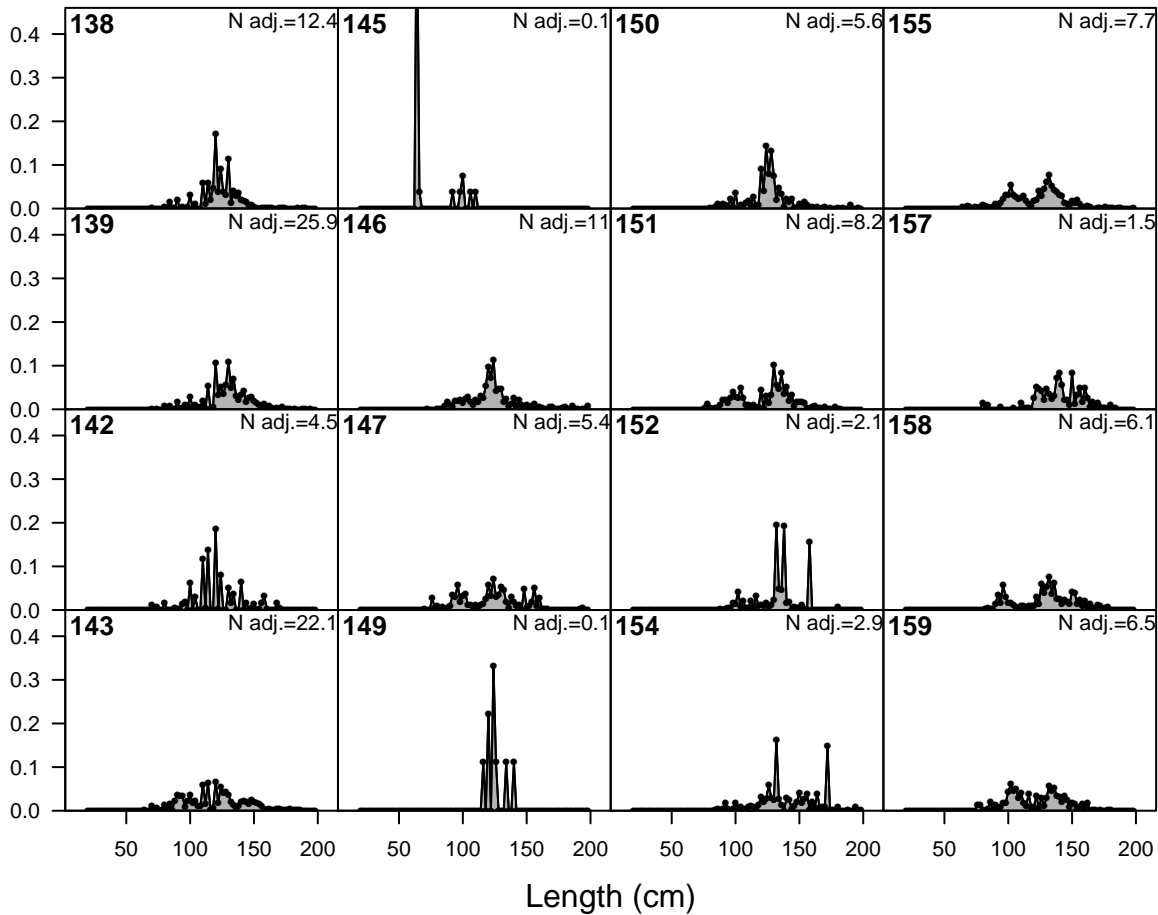


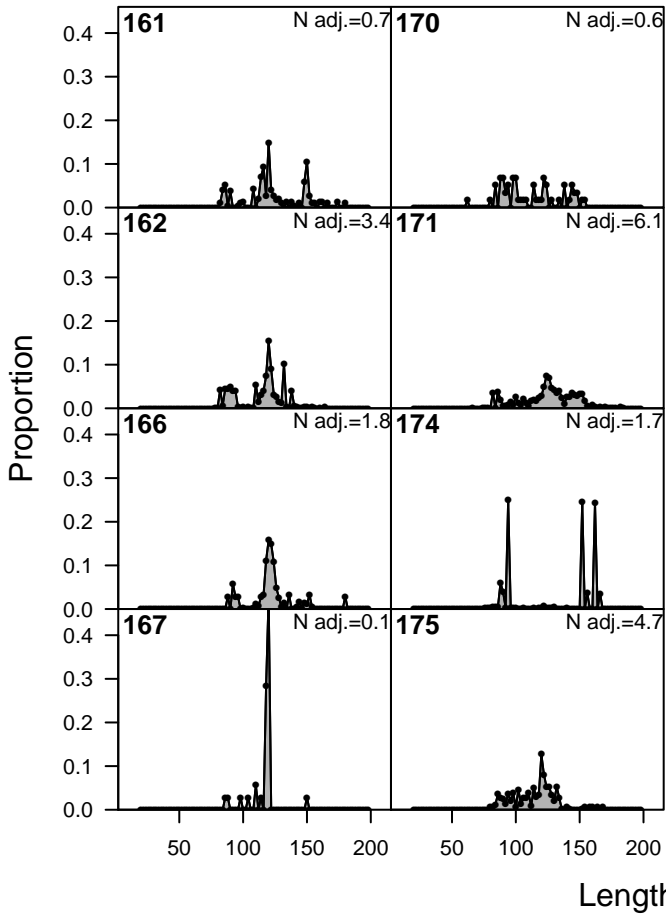


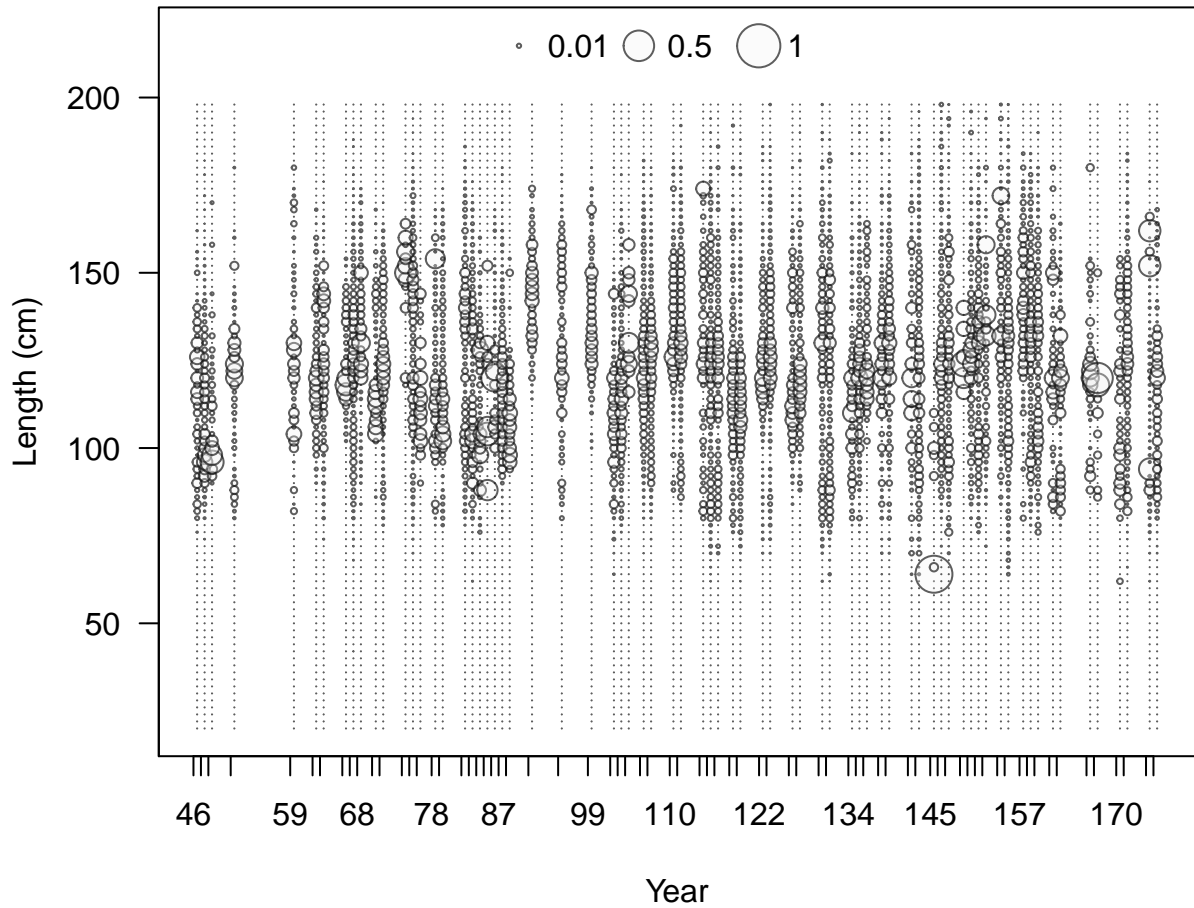




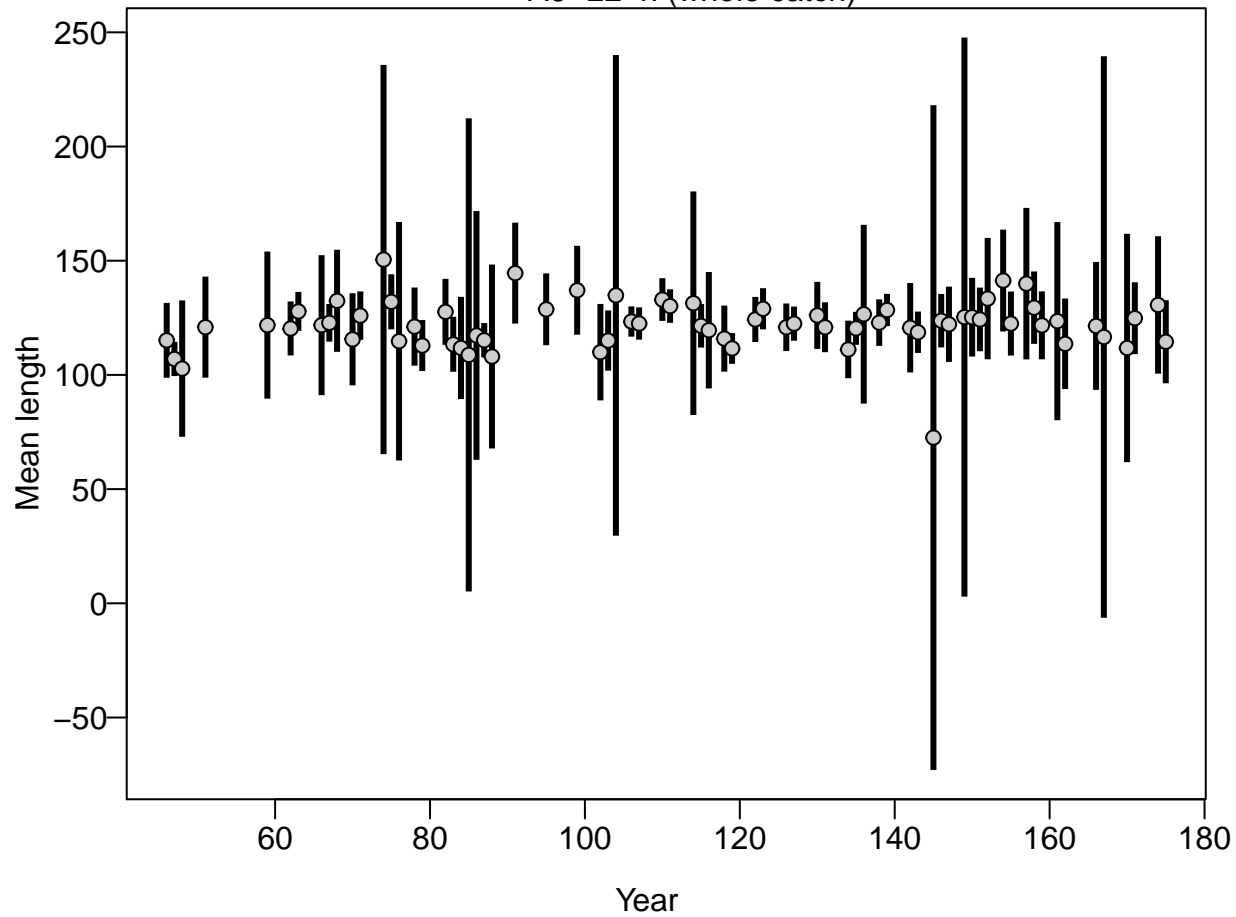
Proportion

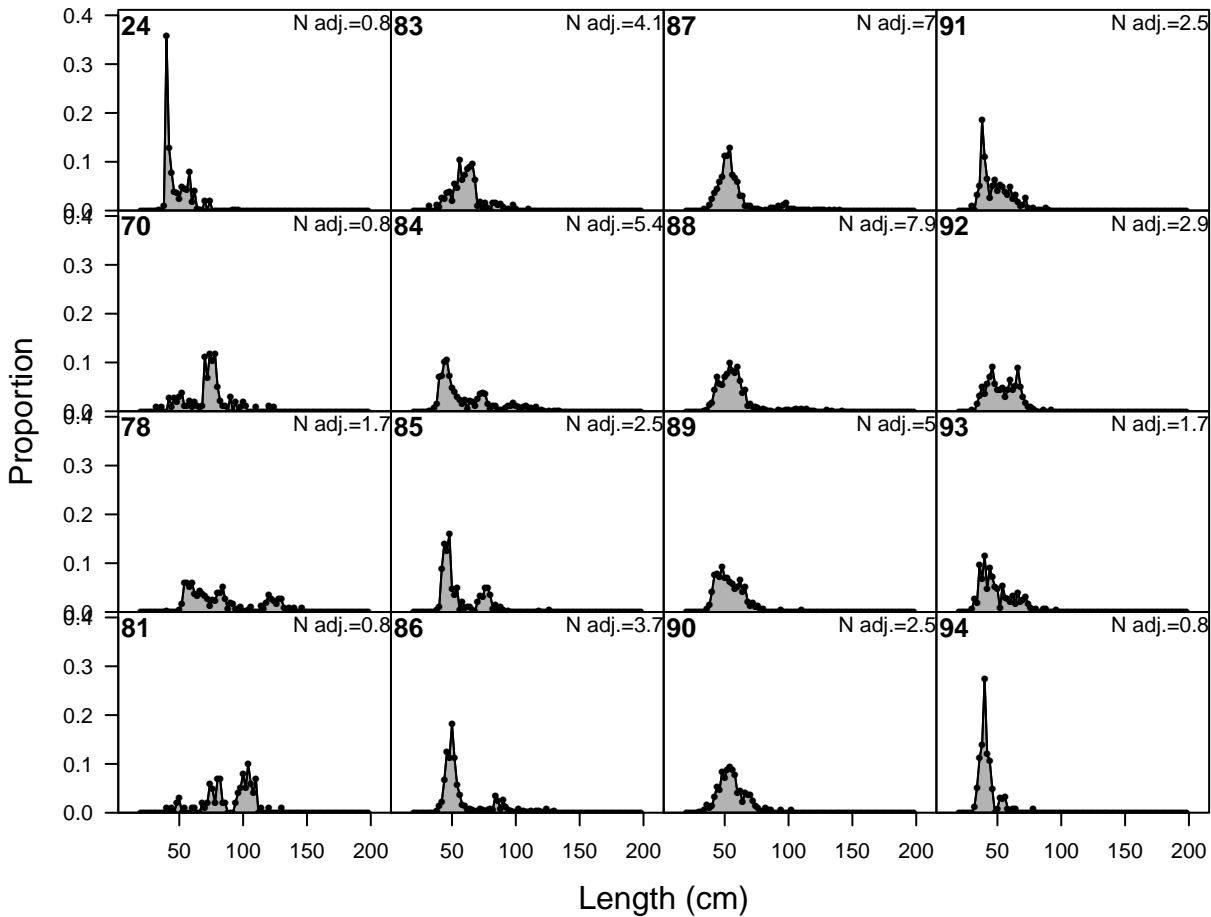


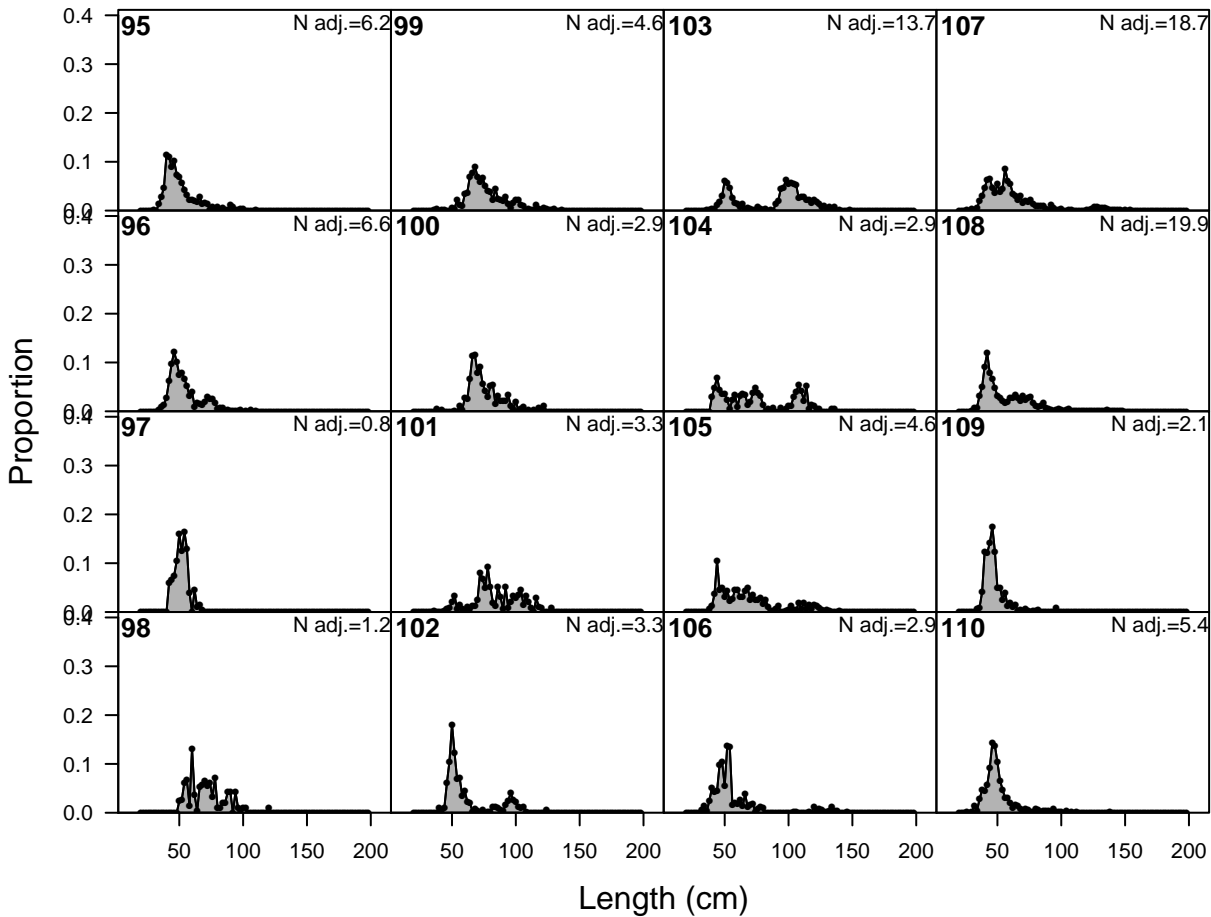


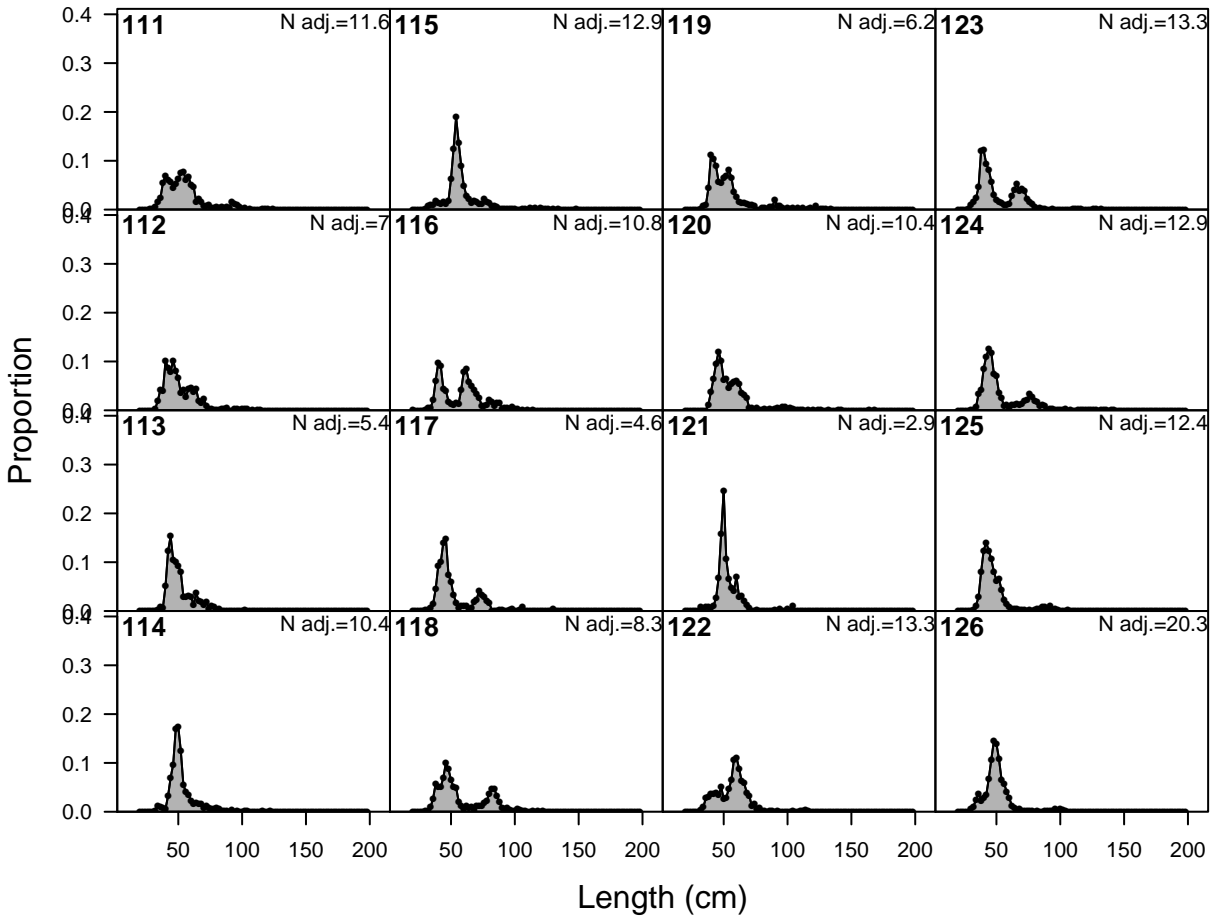


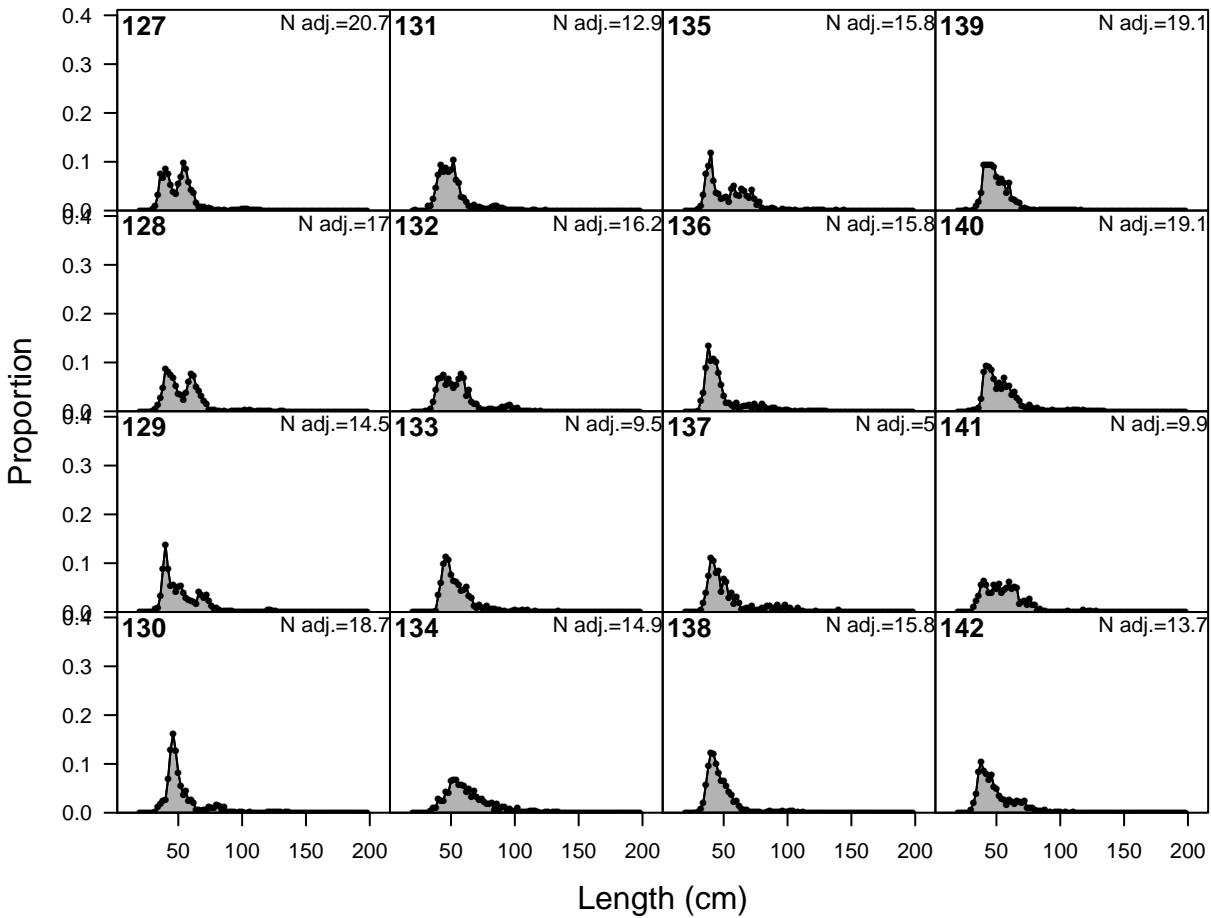
A6-LL-n (whole catch)

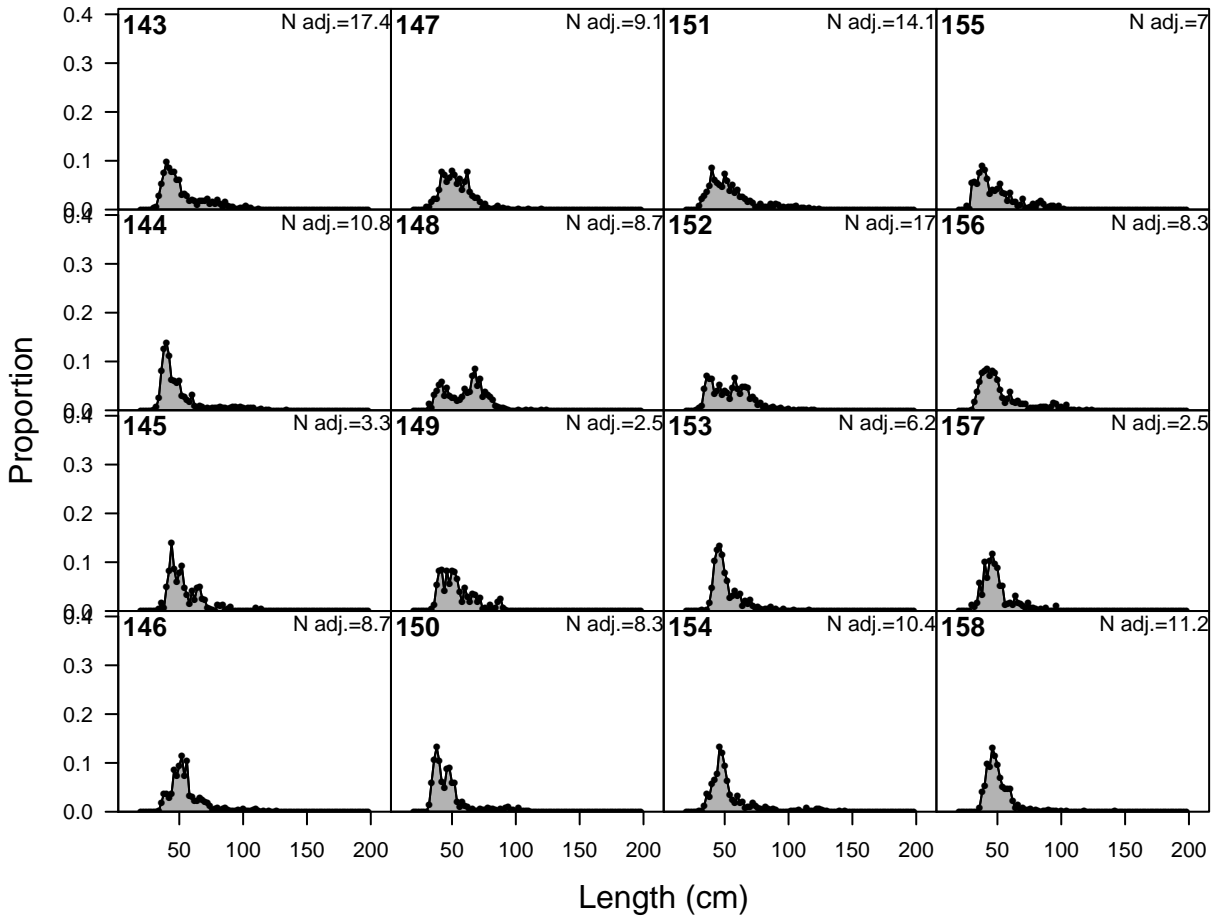


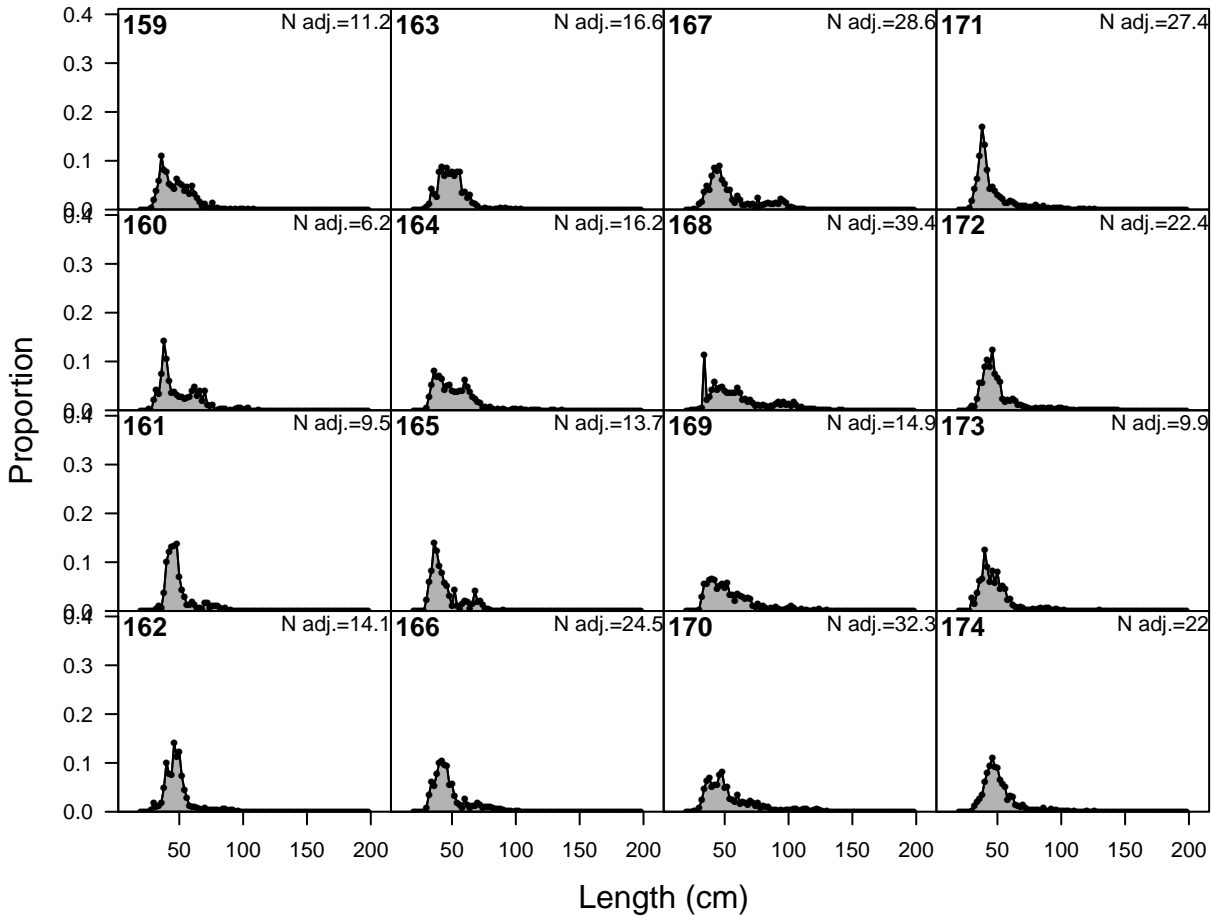


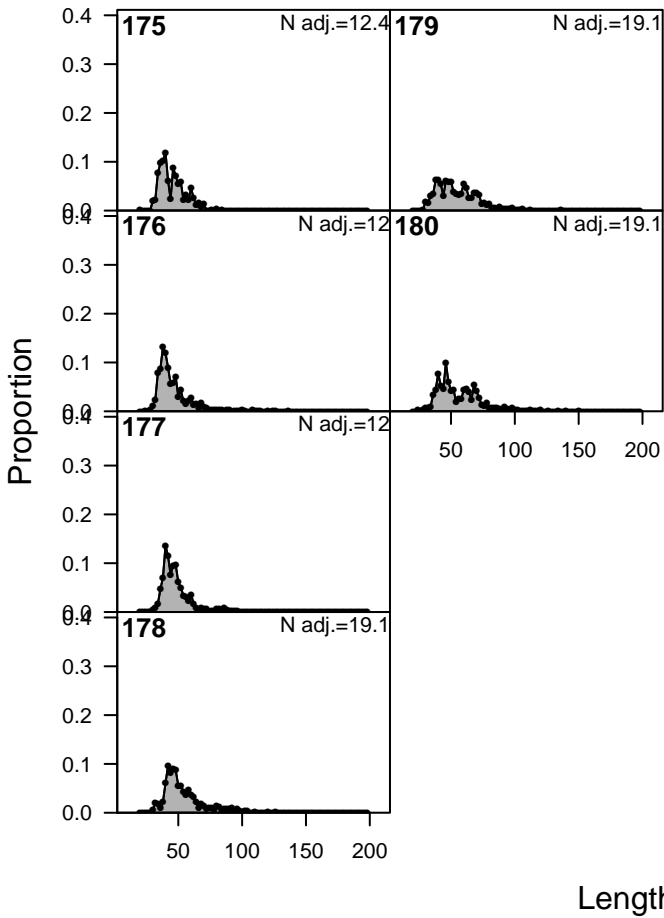


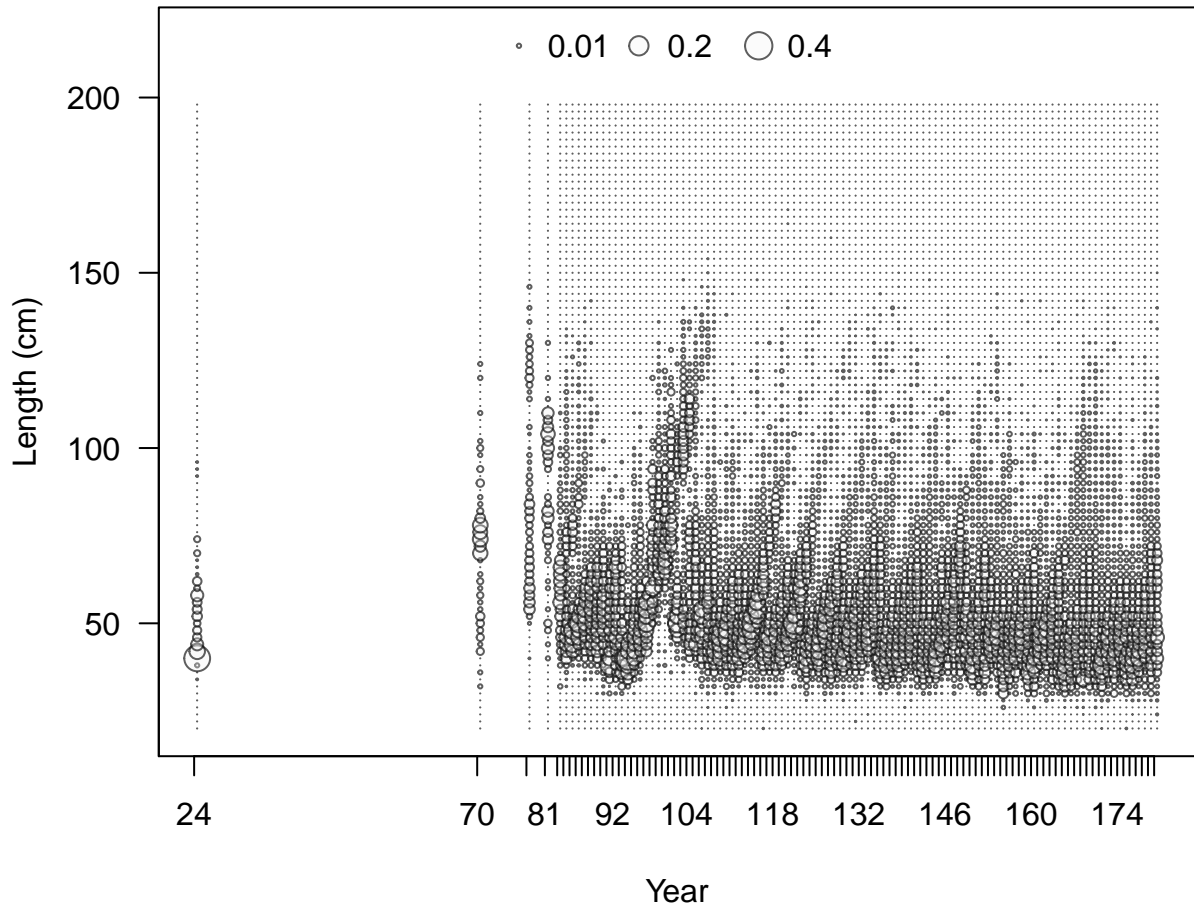




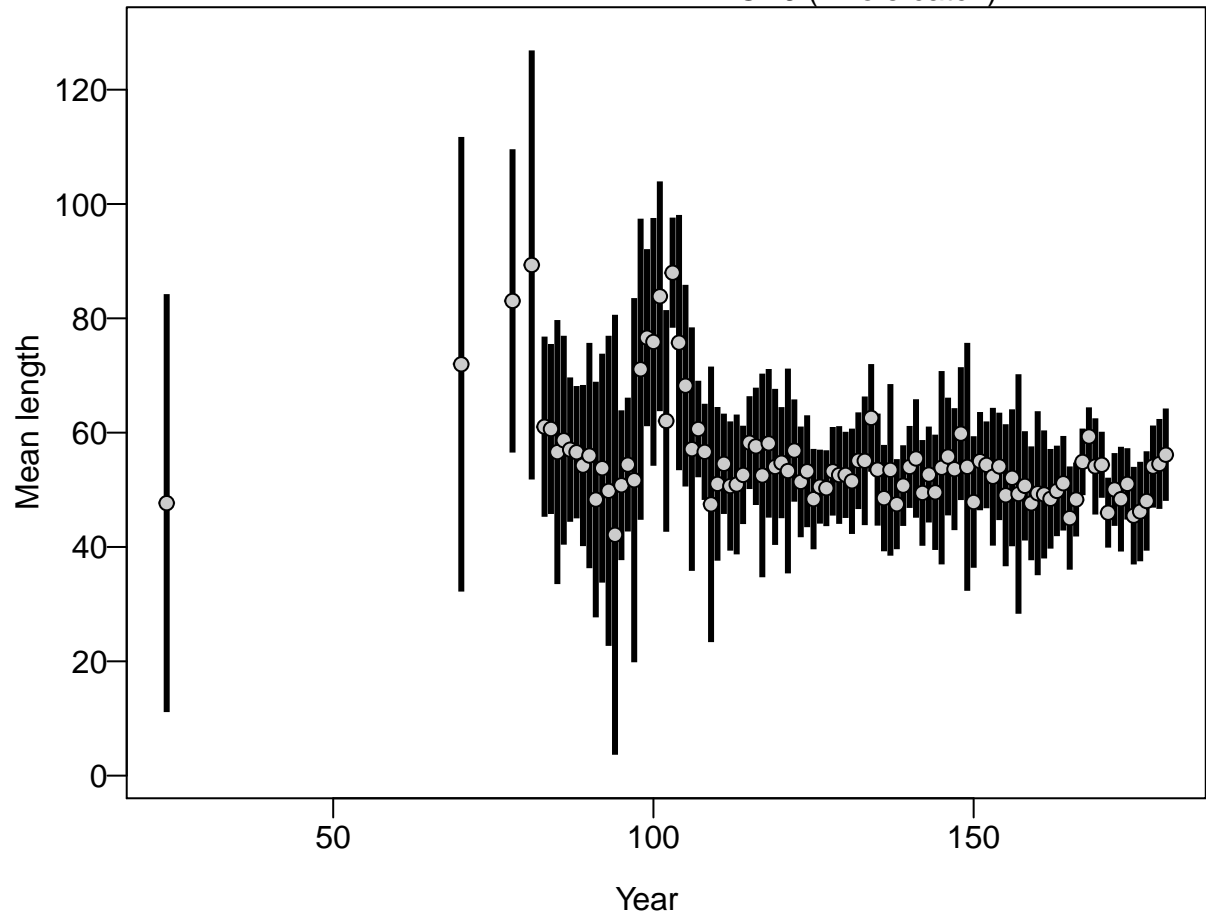


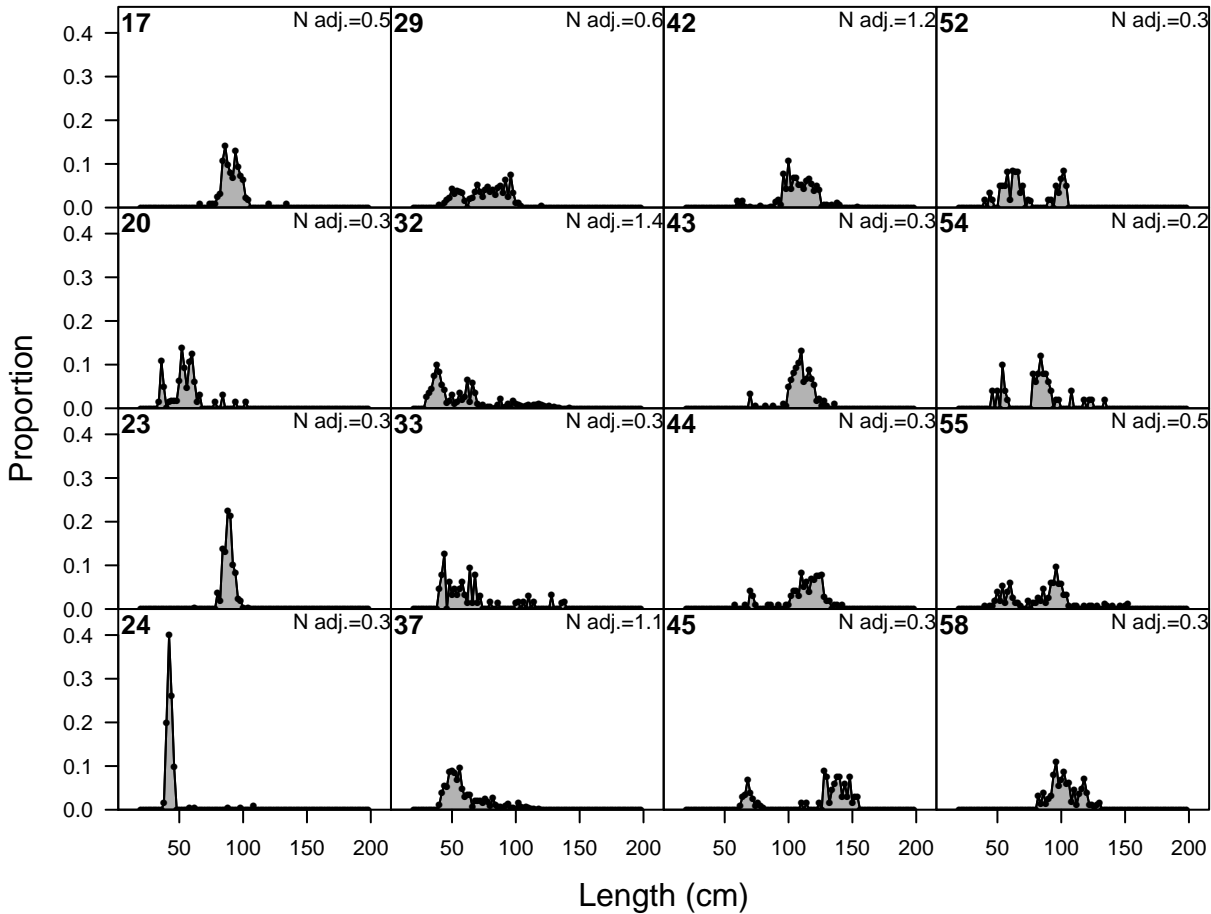


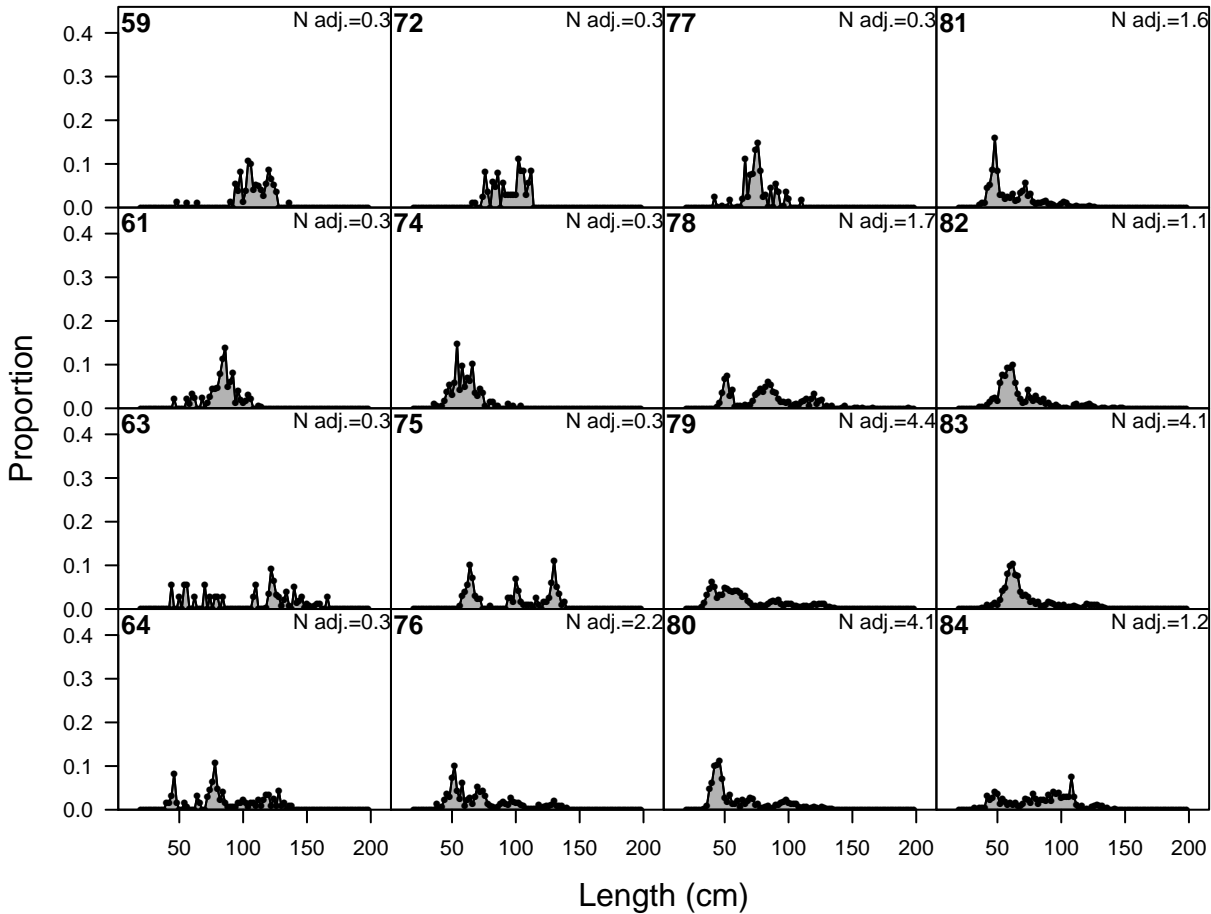


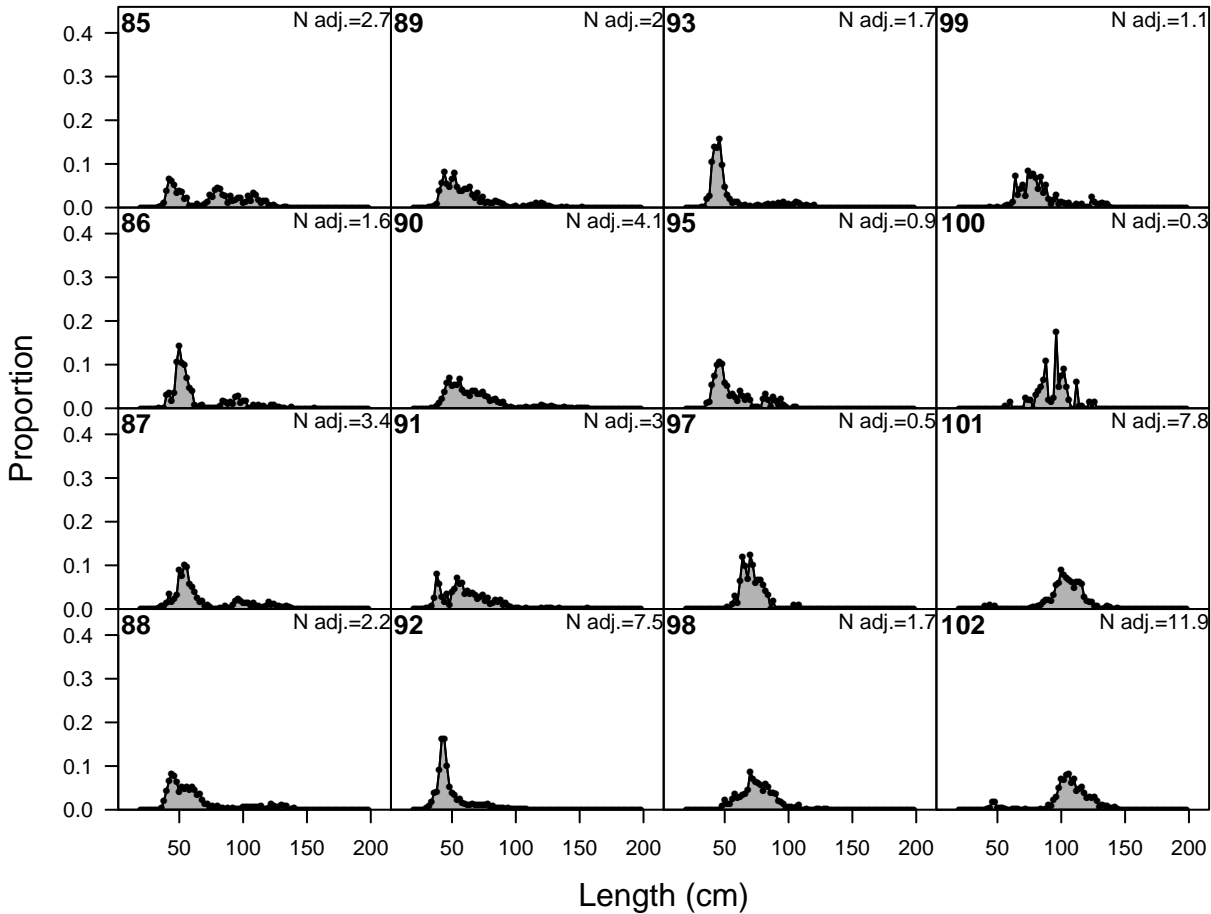


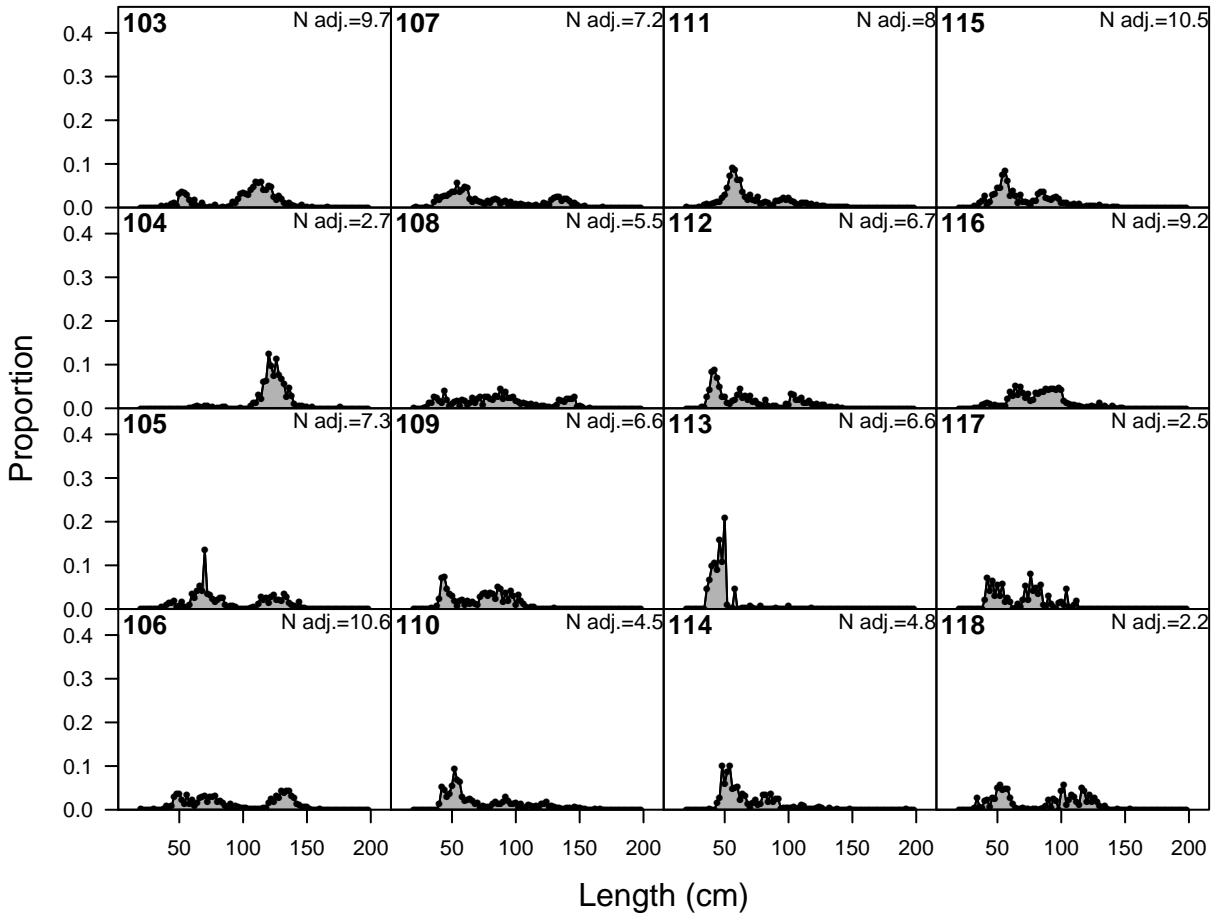
A2-OBJ (whole catch)

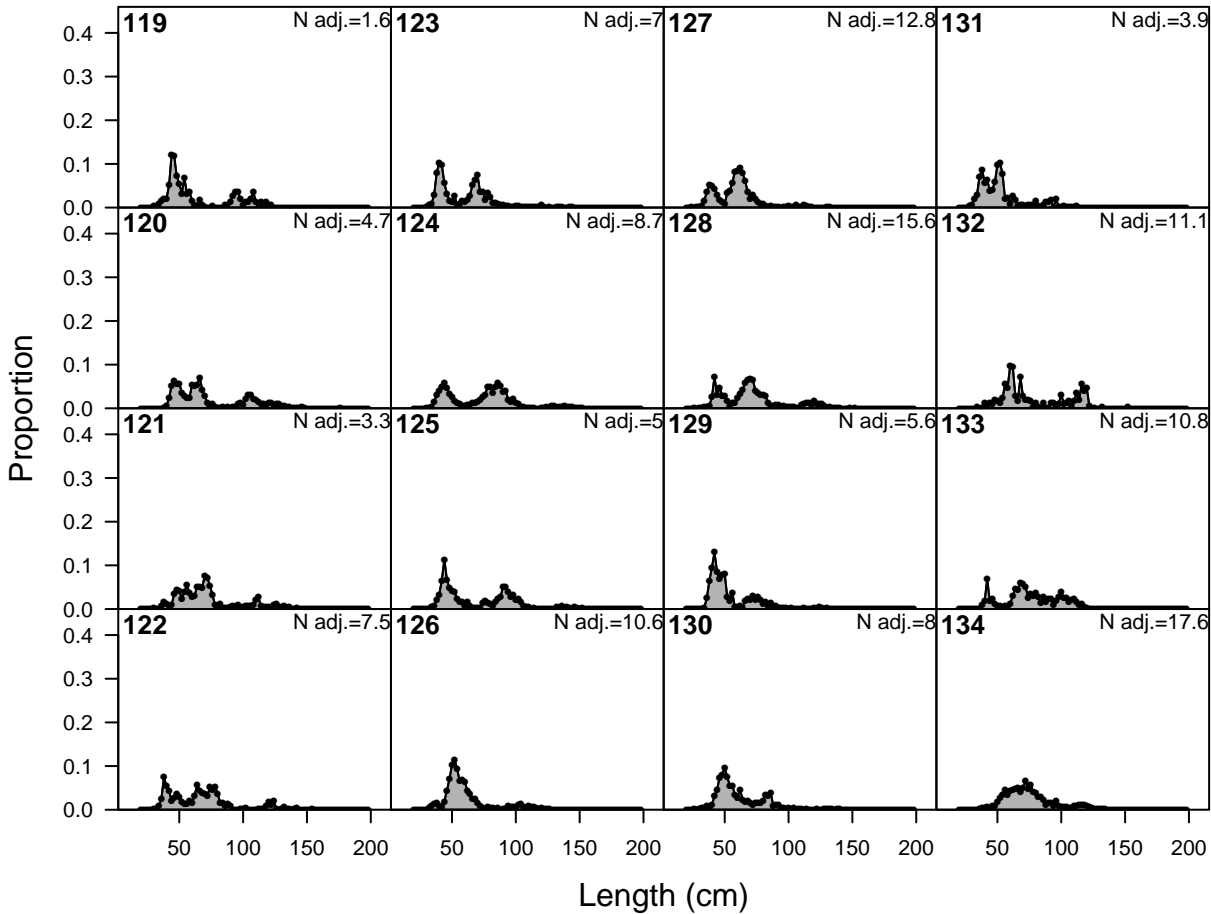


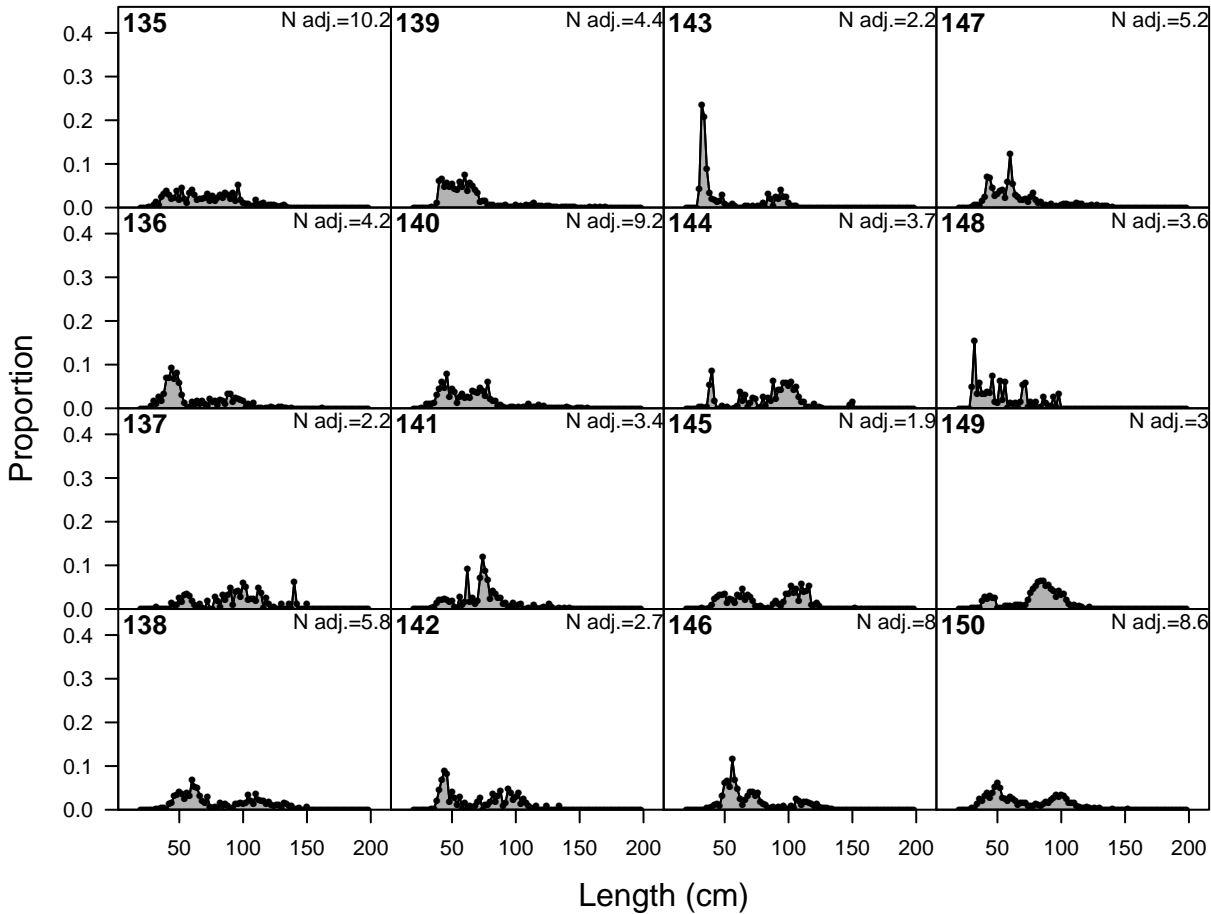


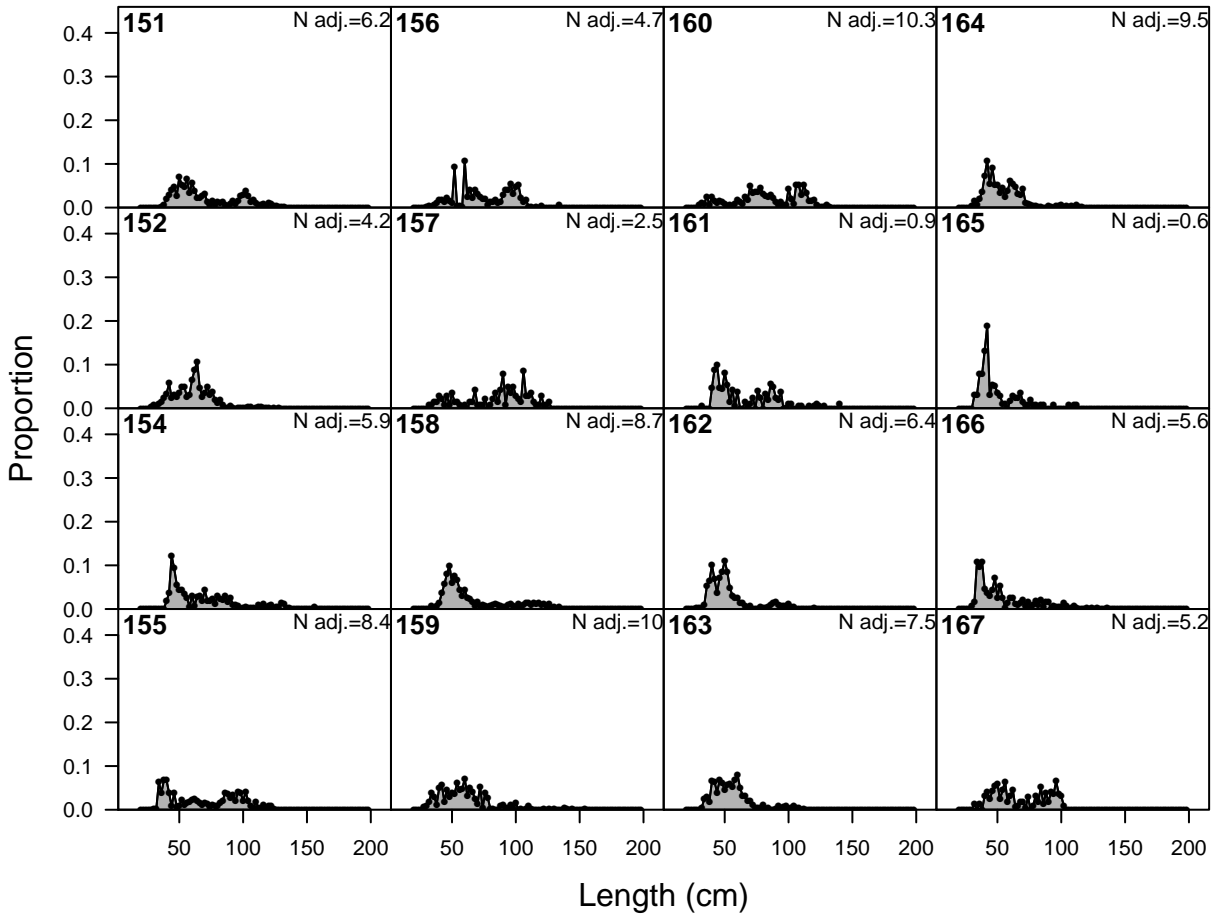


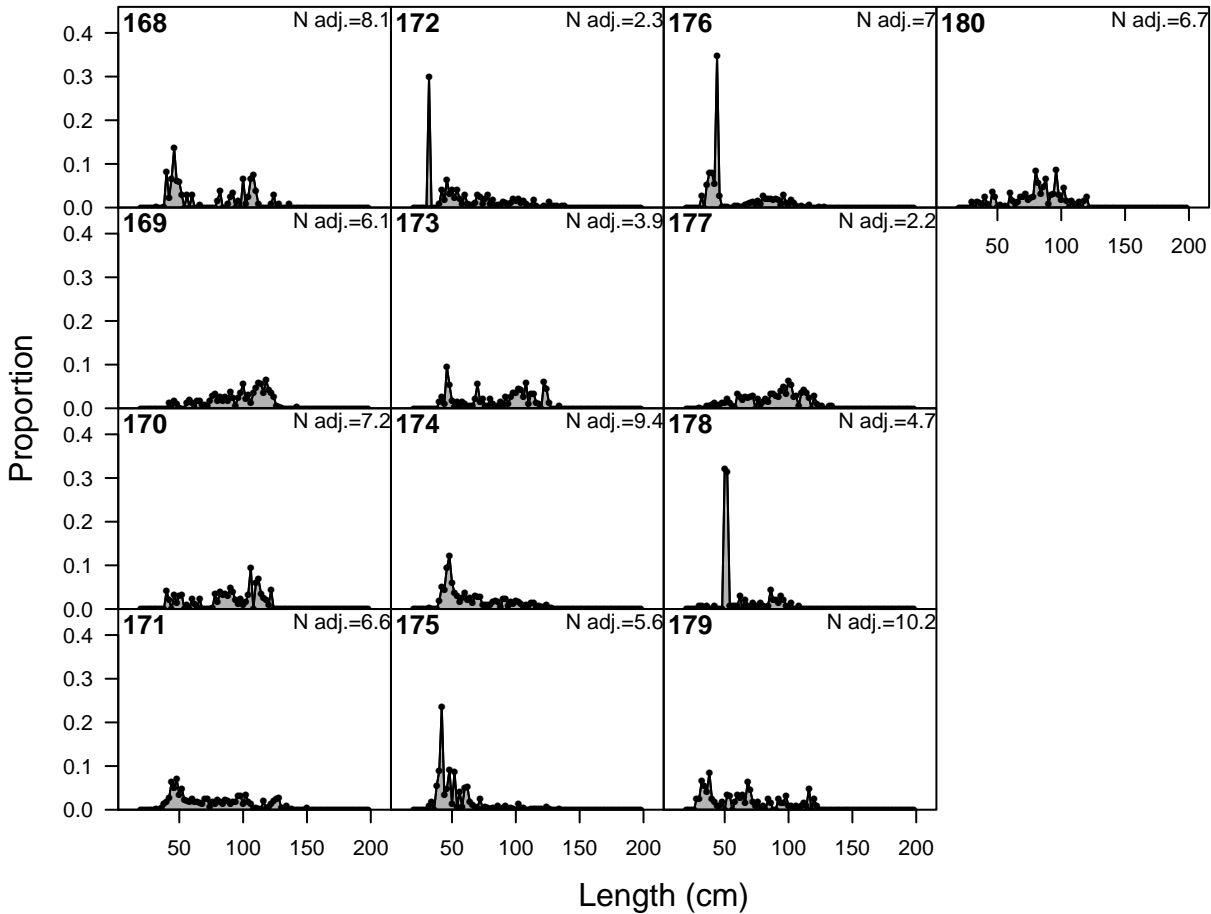


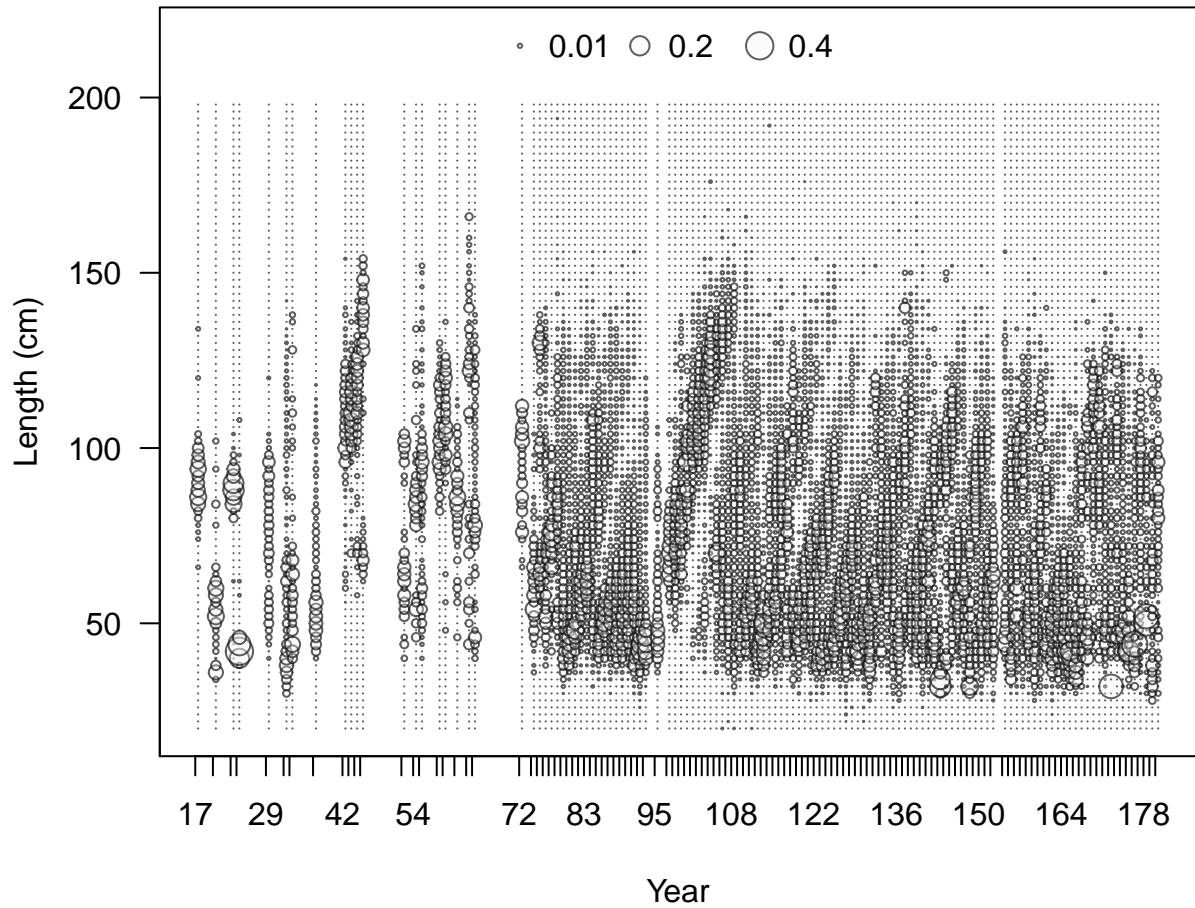




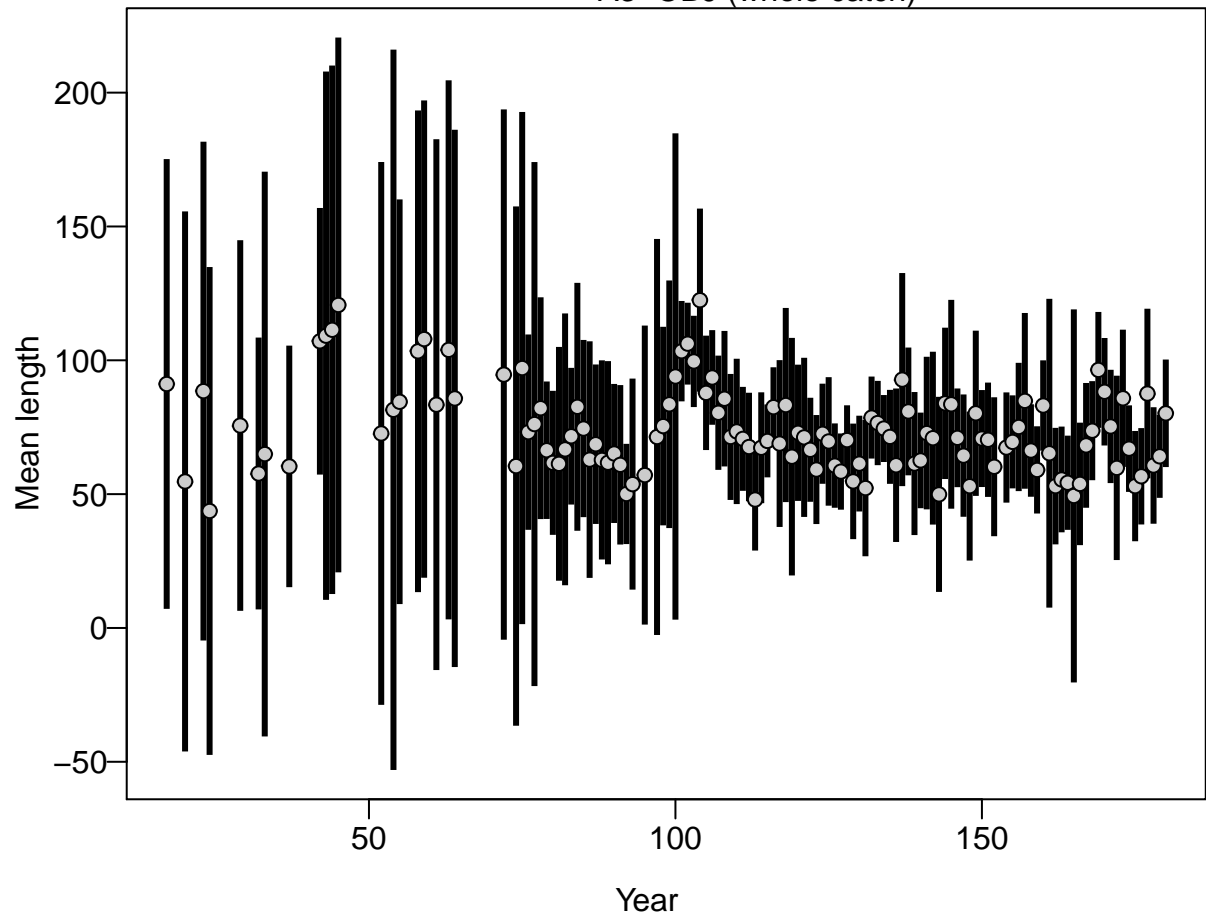




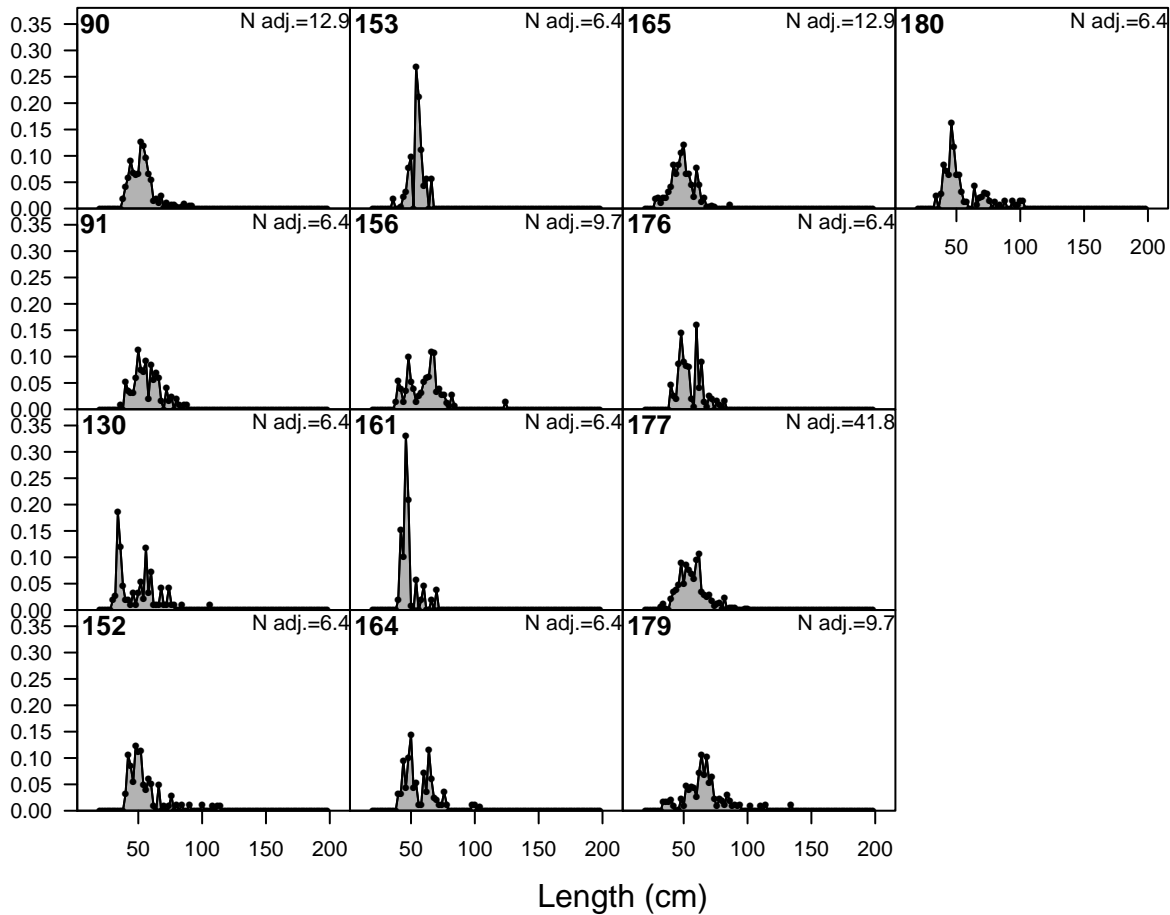


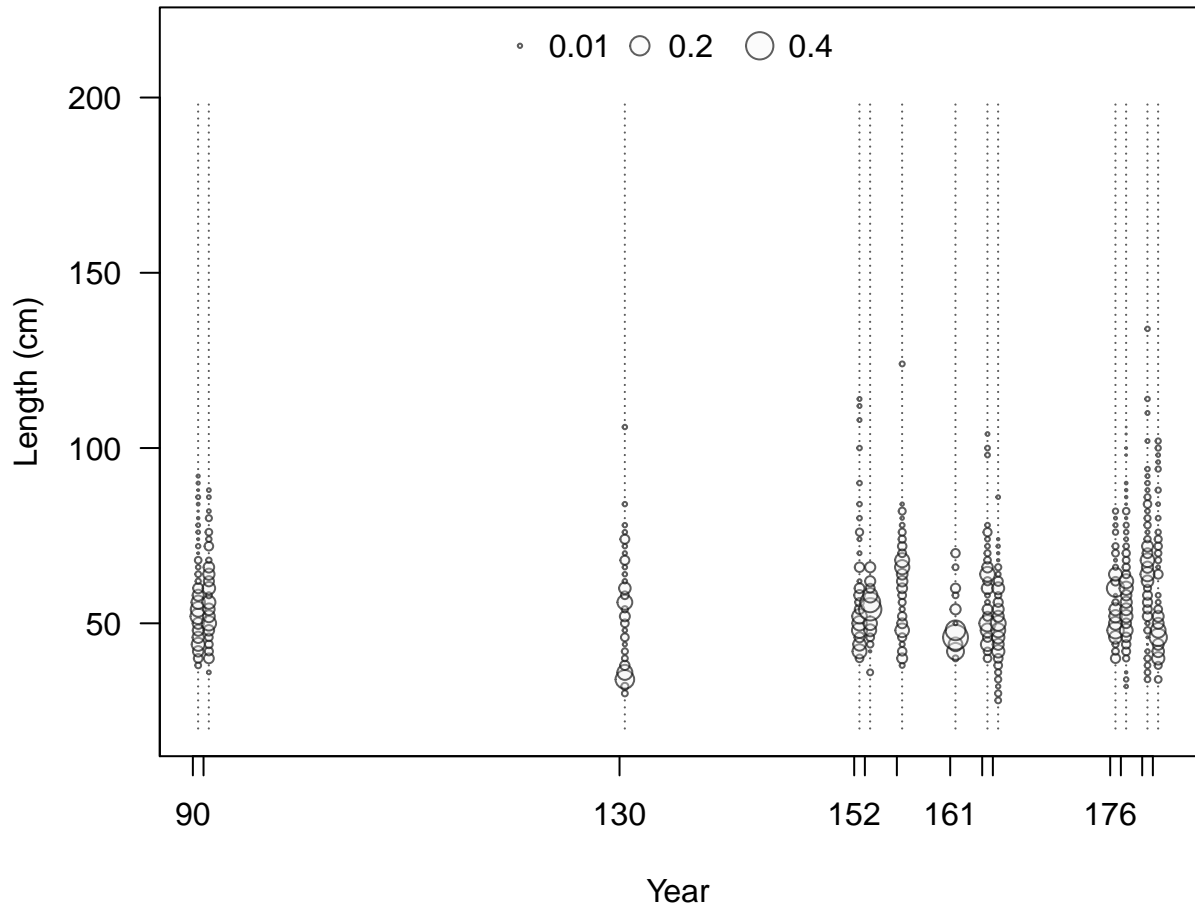


A3-OBJ (whole catch)

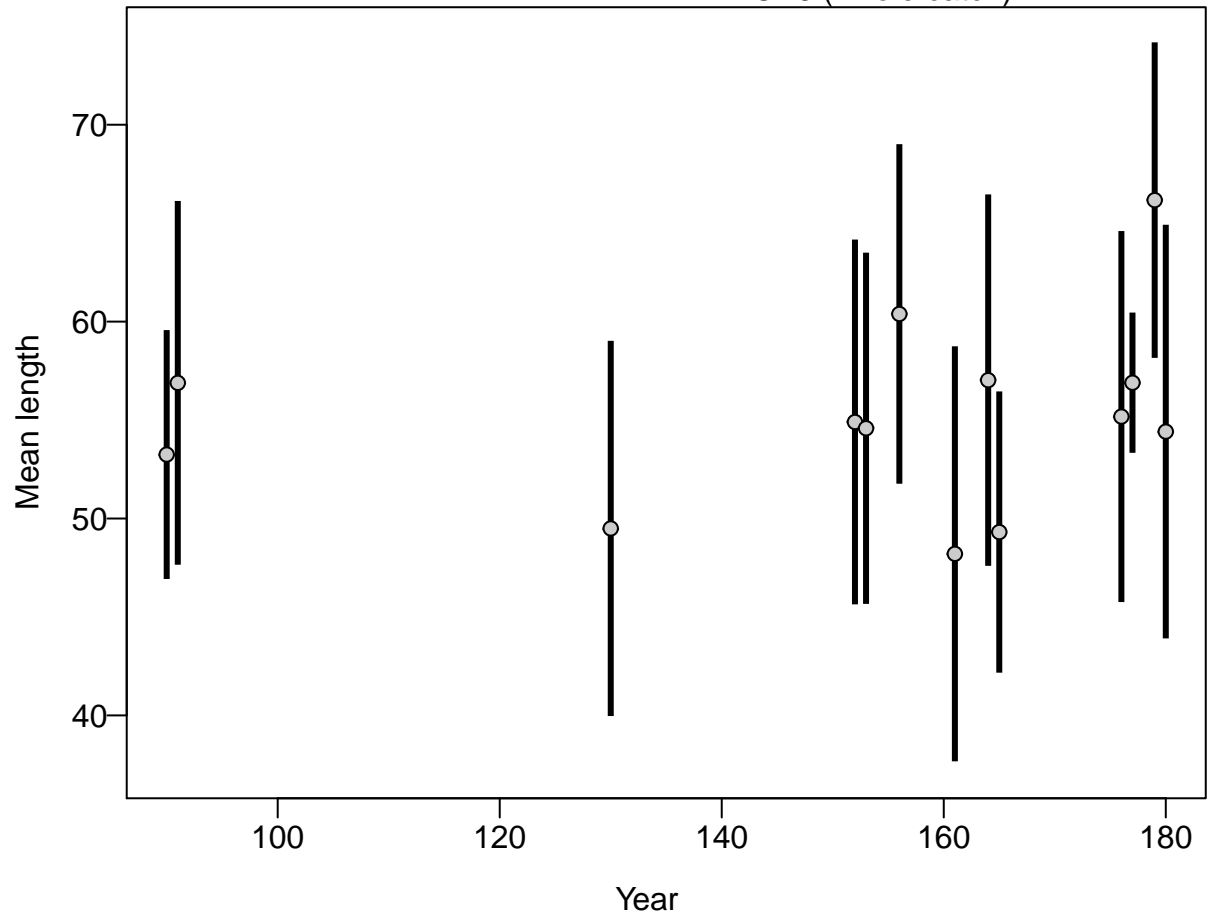


Proportion

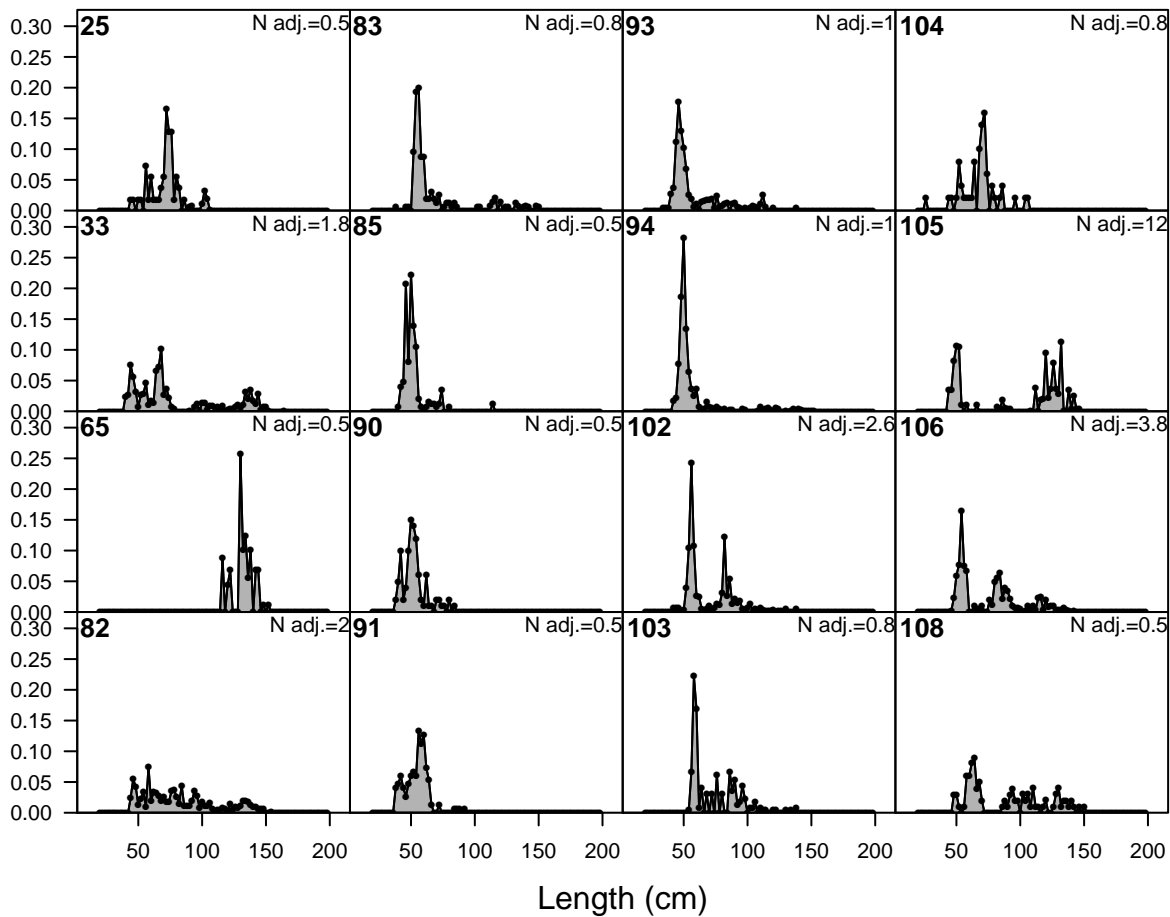




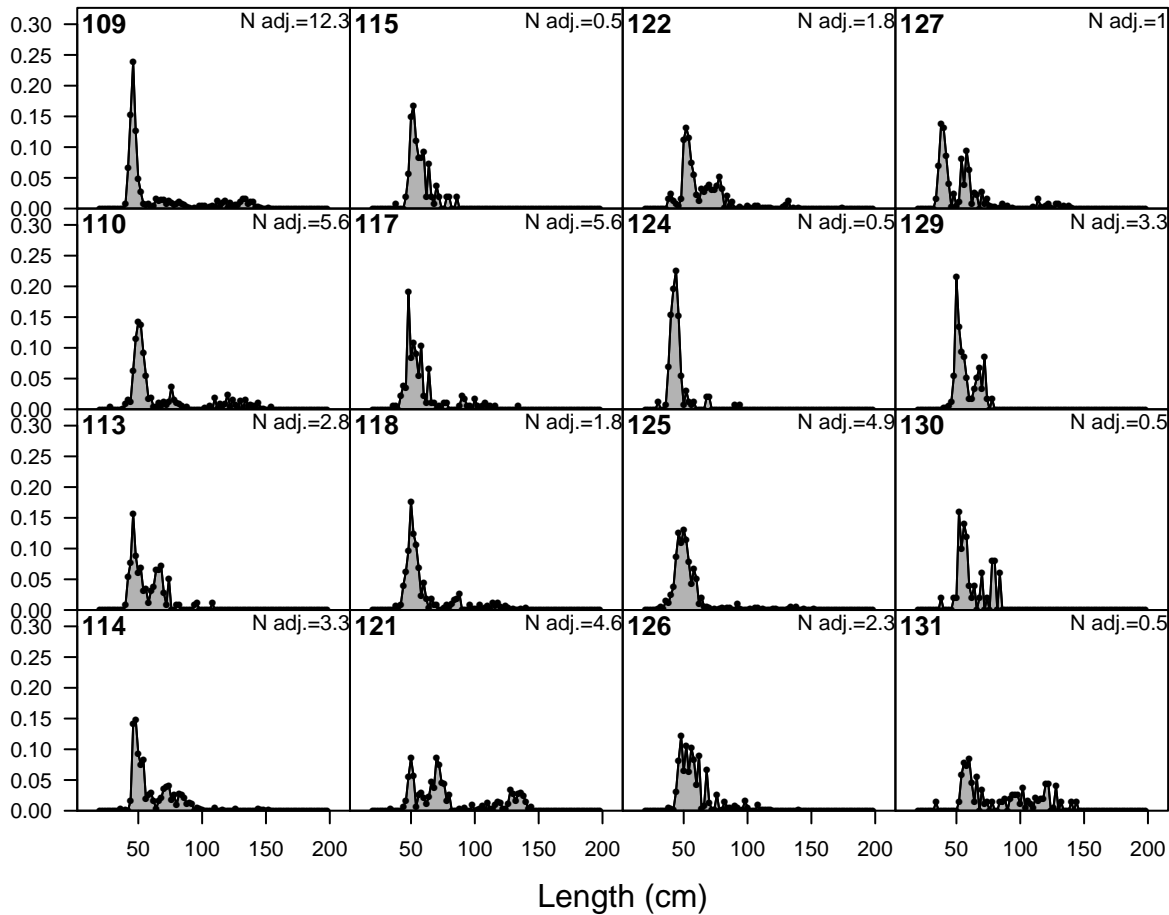
A4-OBJ (whole catch)



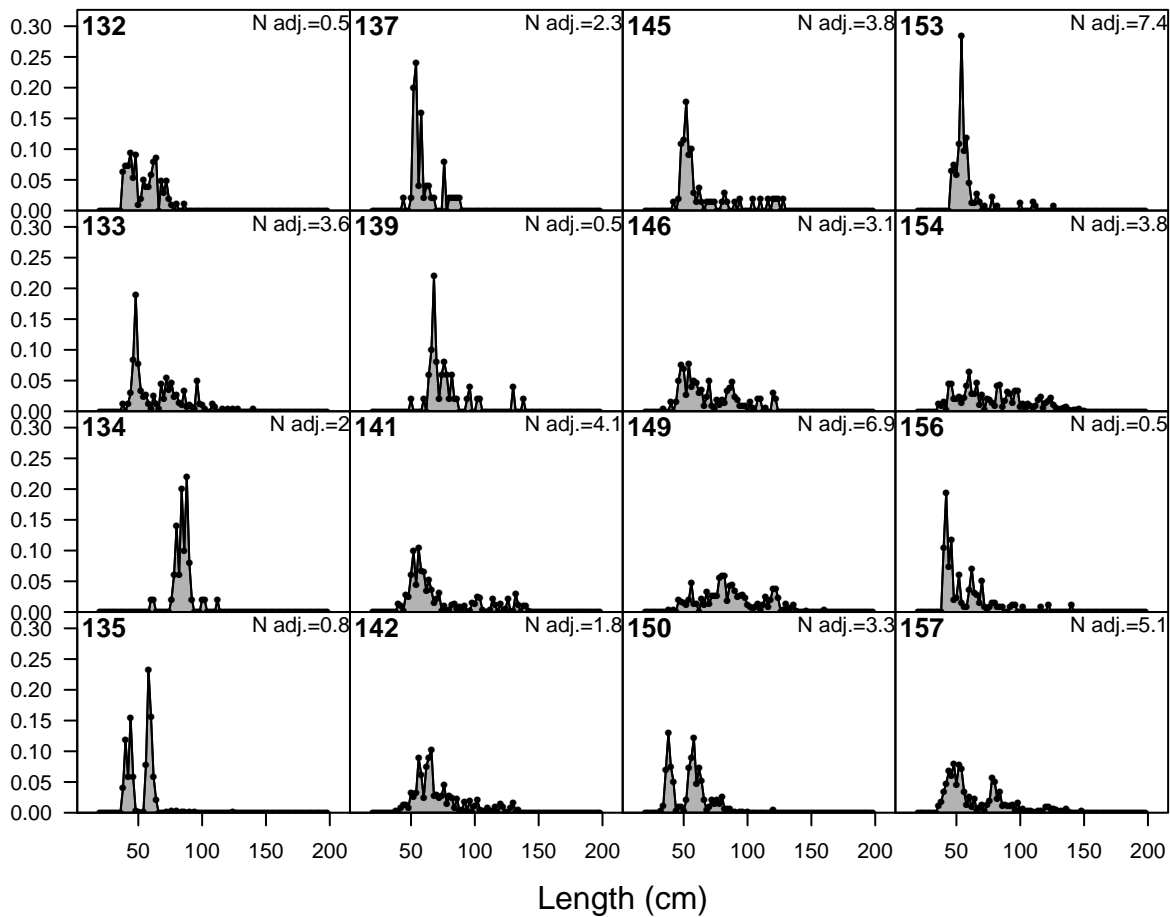
Proportion



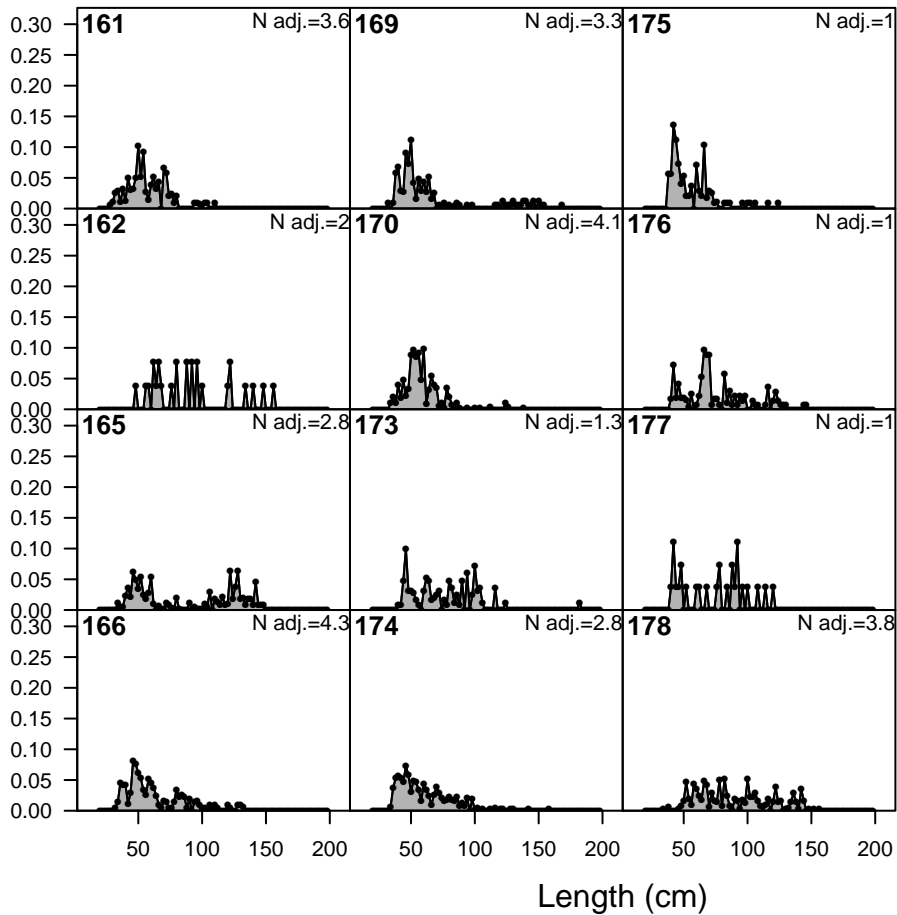
Proportion

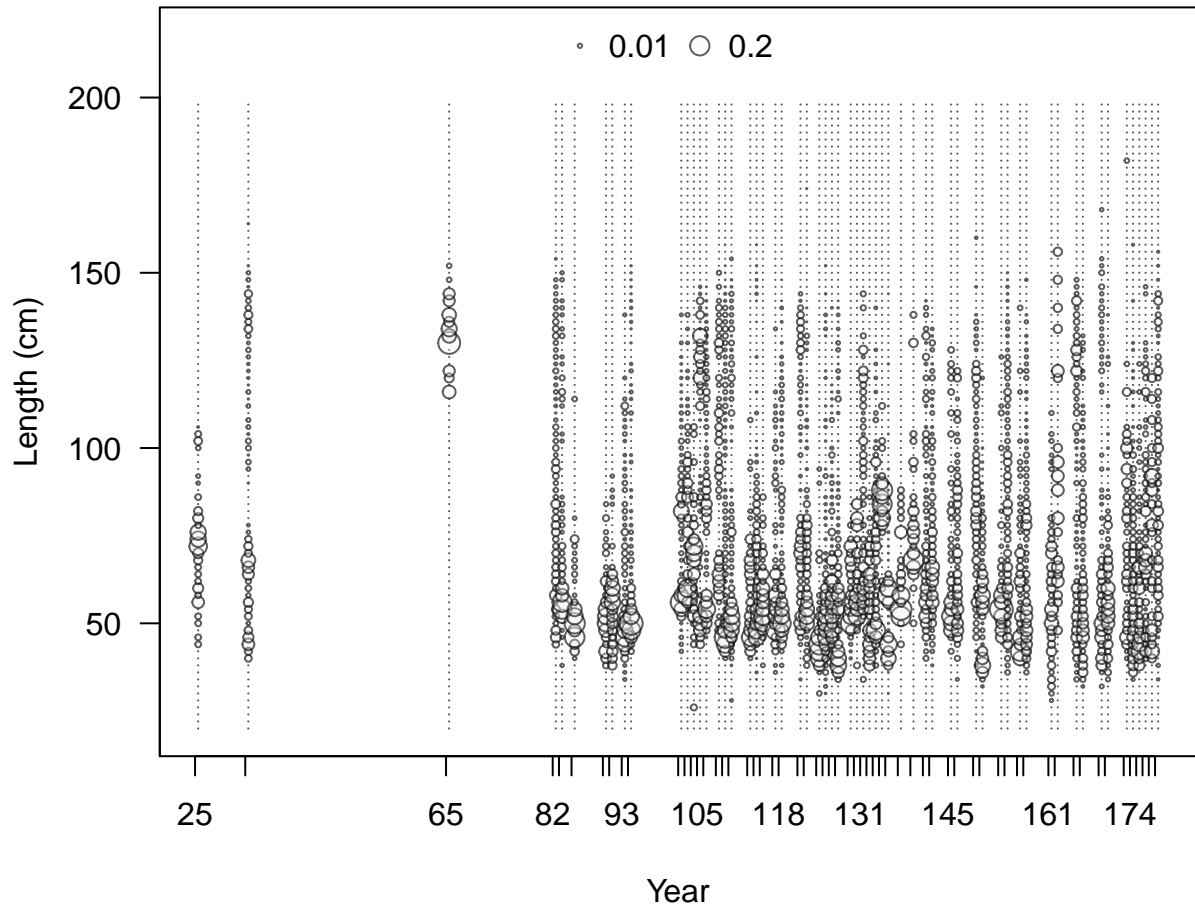


Proportion

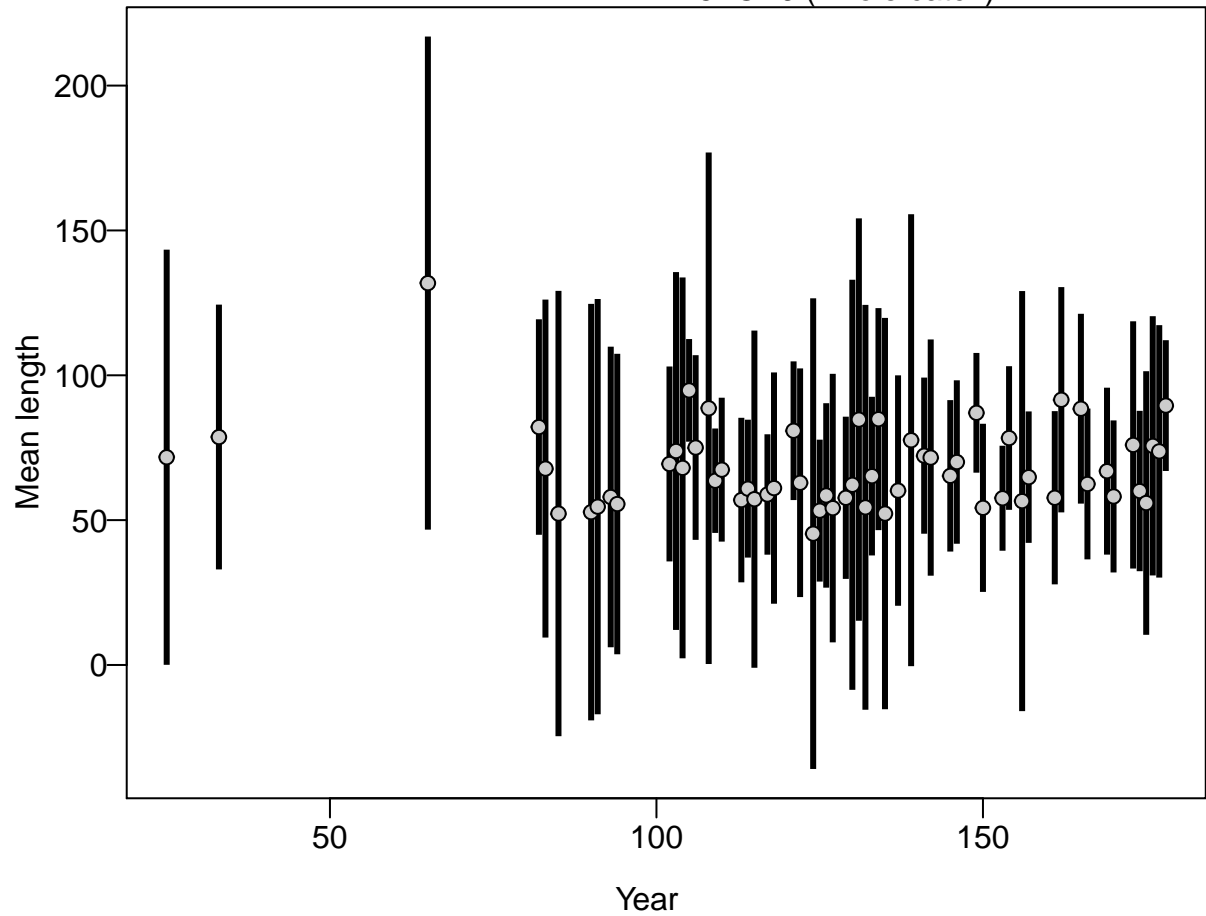


Proportion

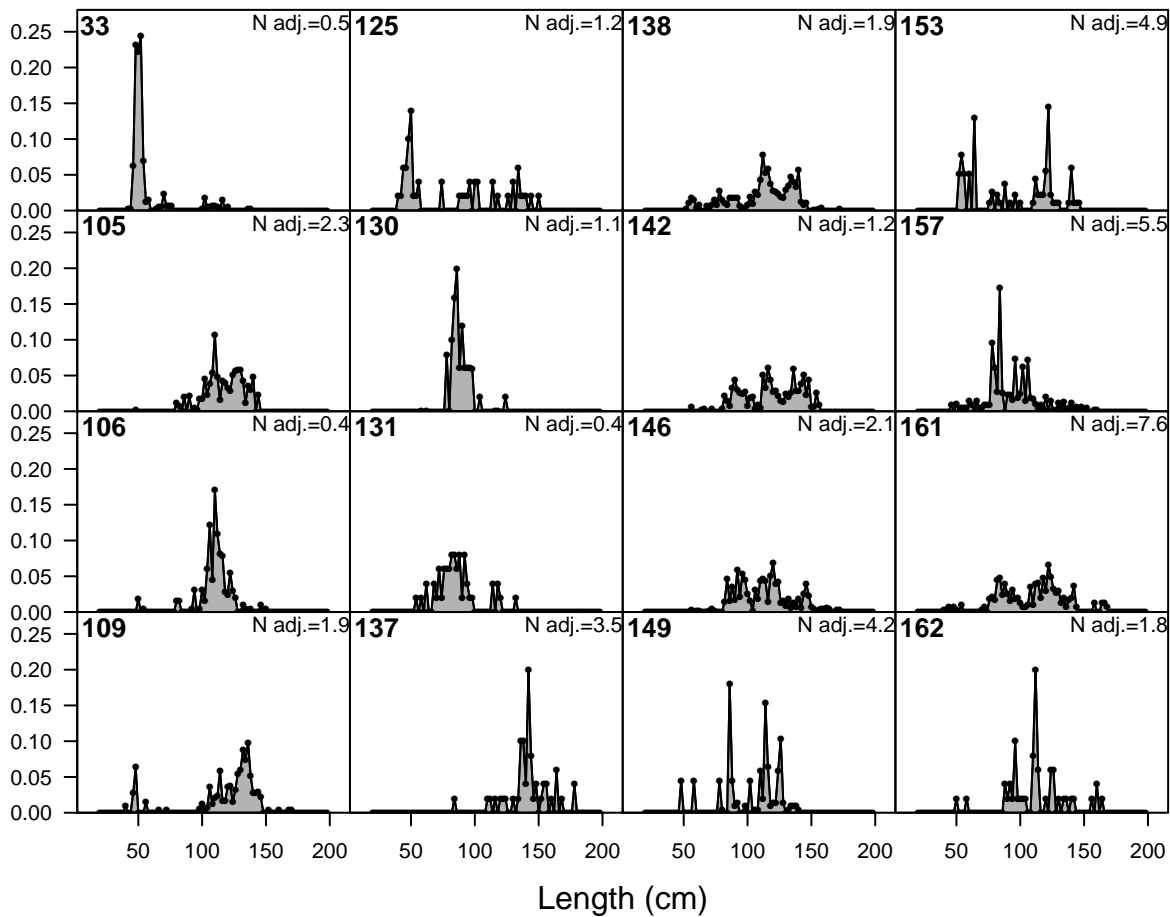




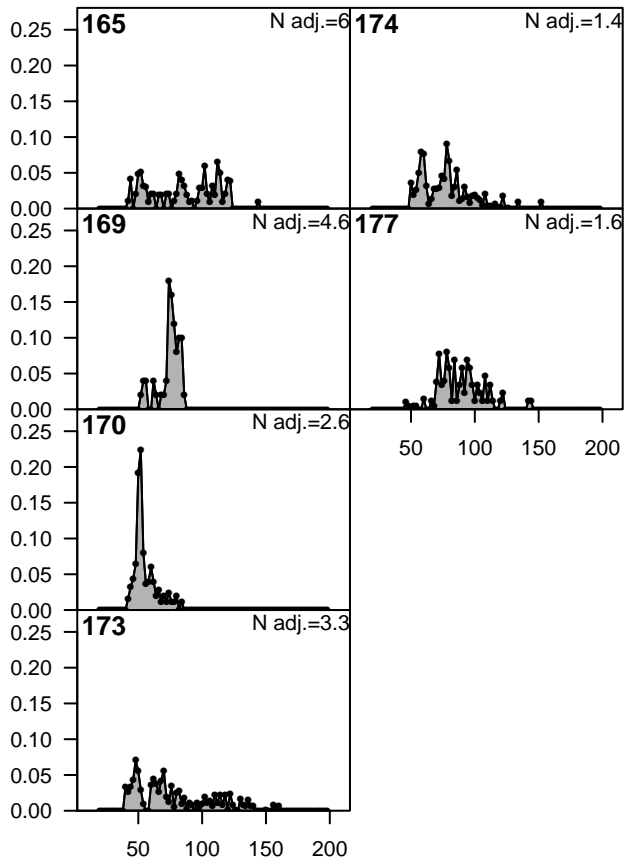
A5-OBJ (whole catch)



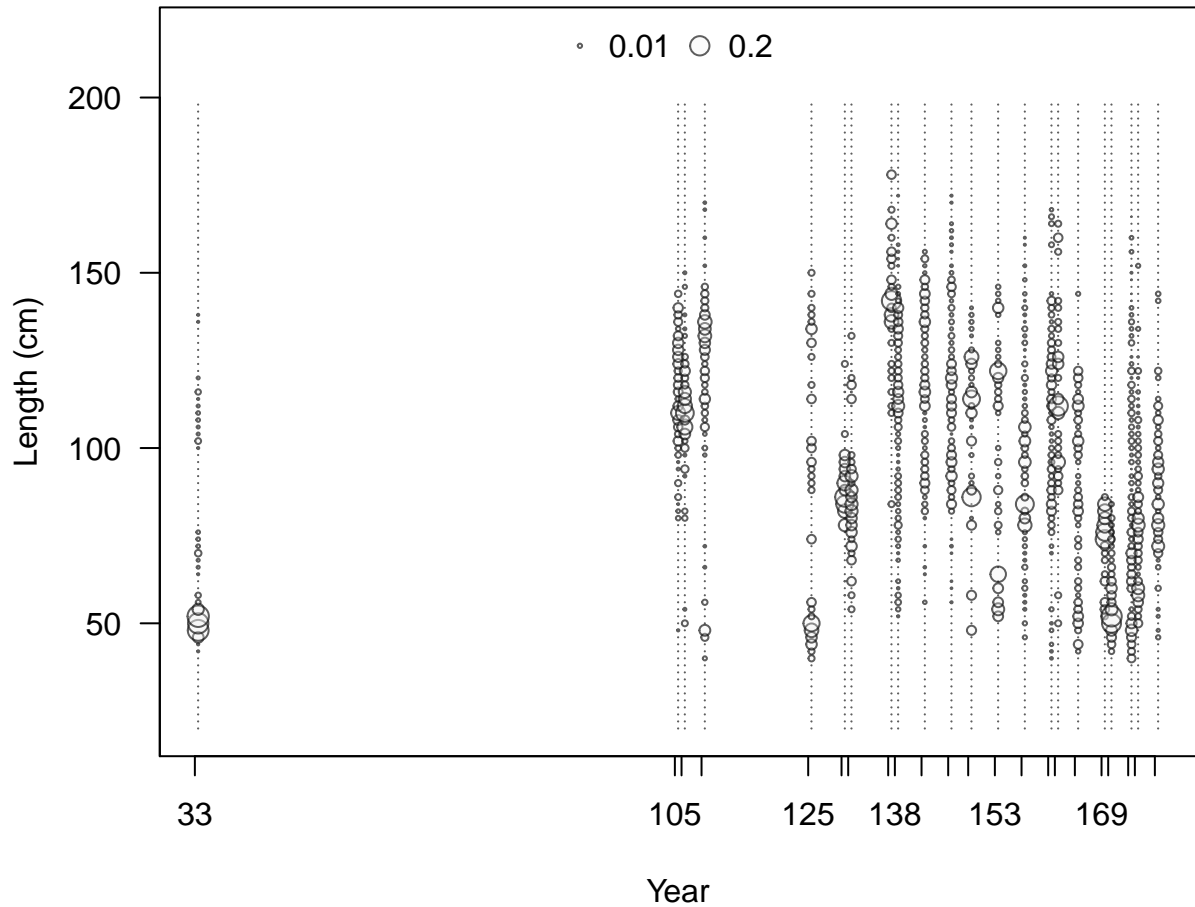
Proportion



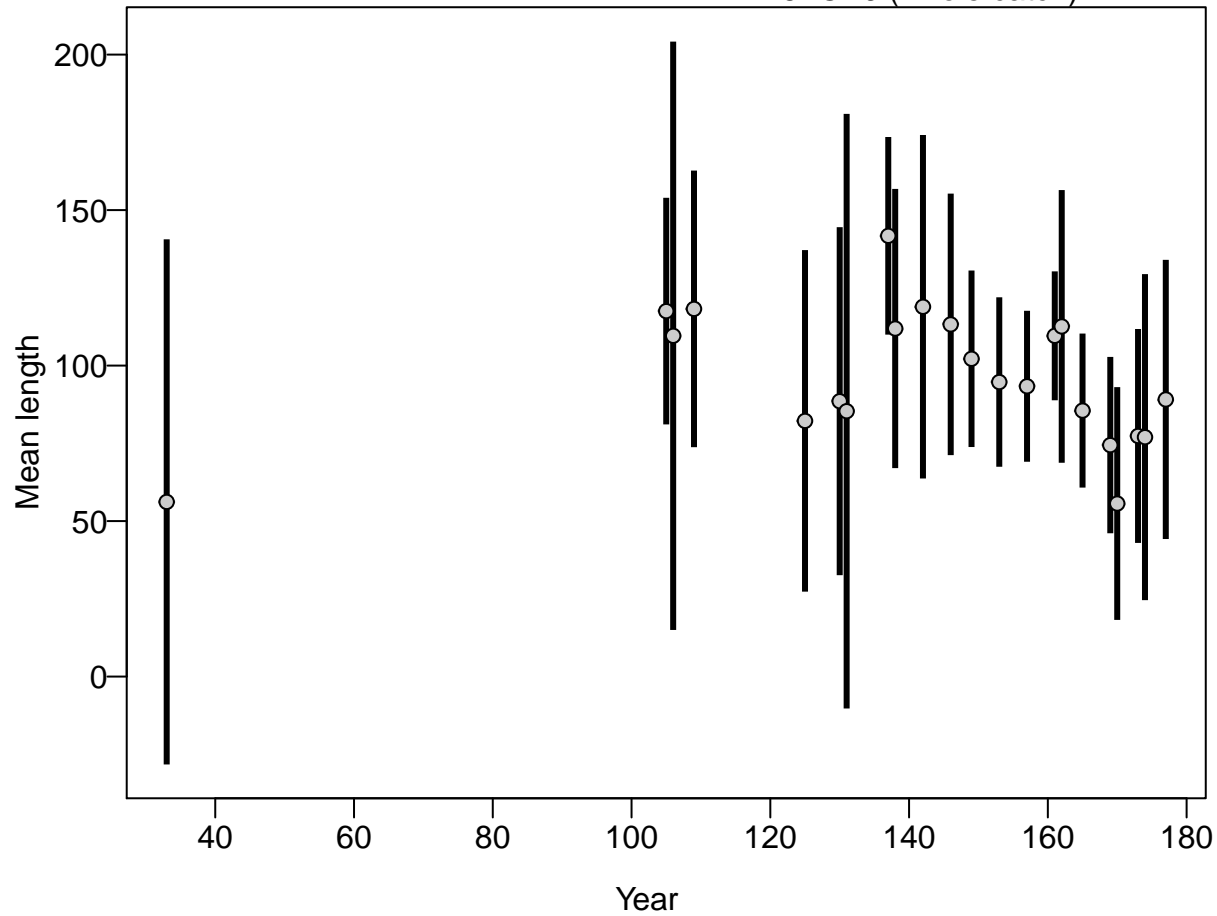
Proportion

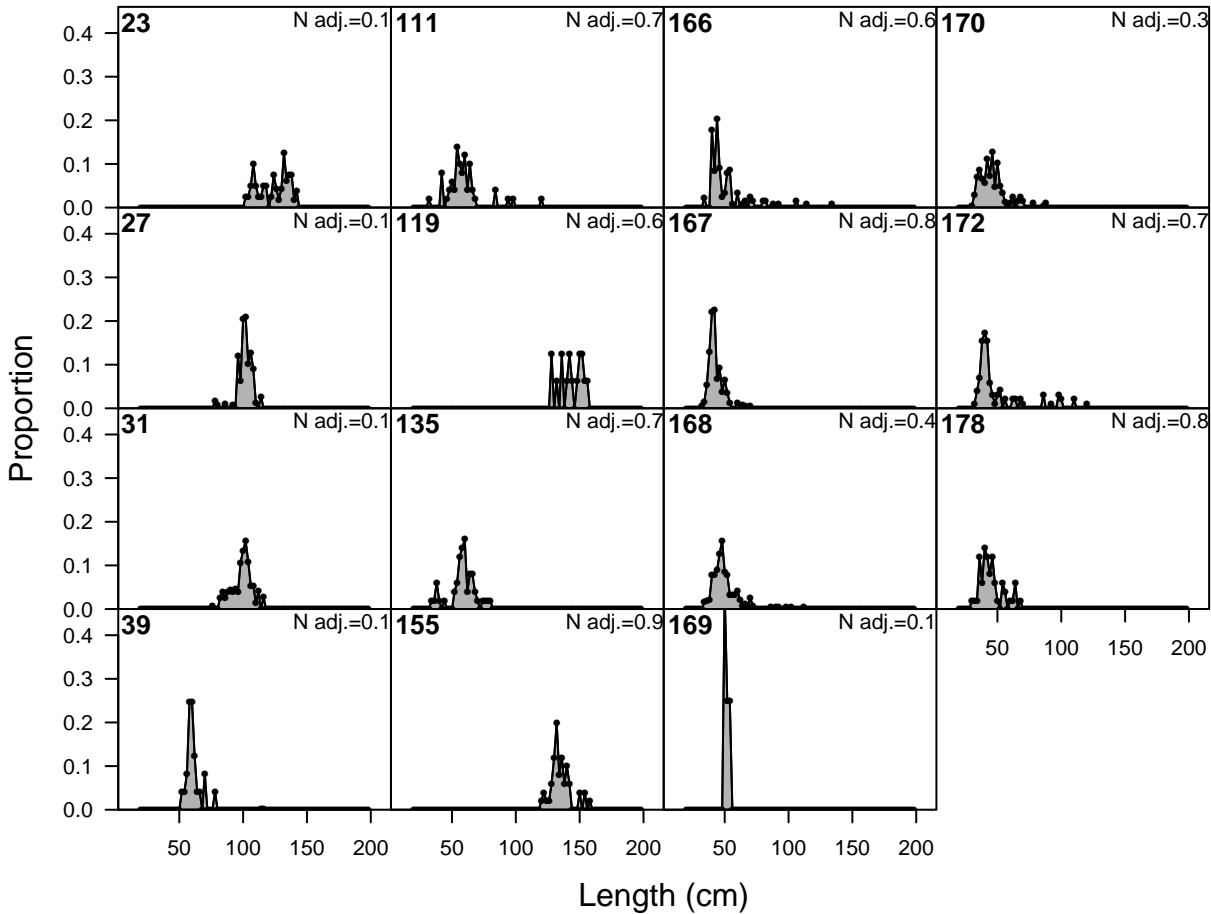


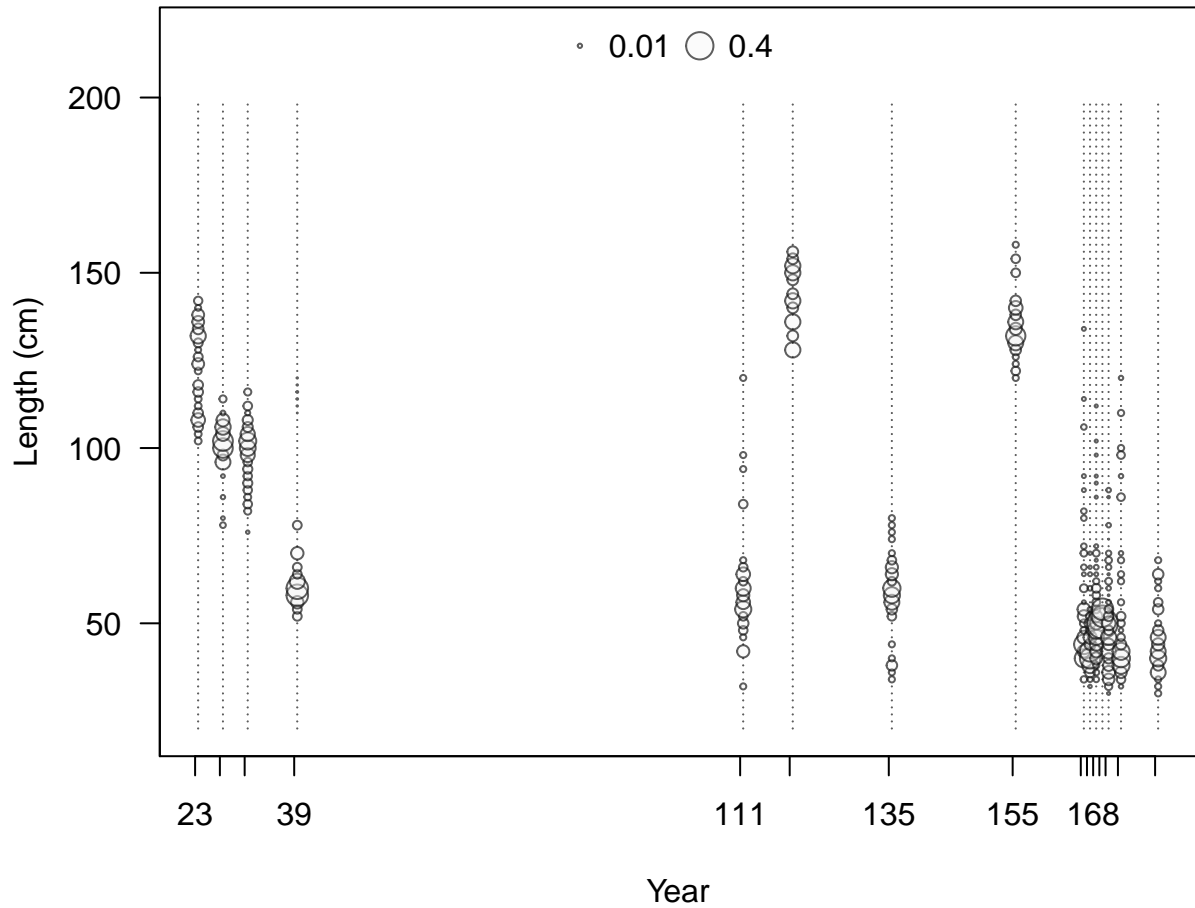
Length (cm)



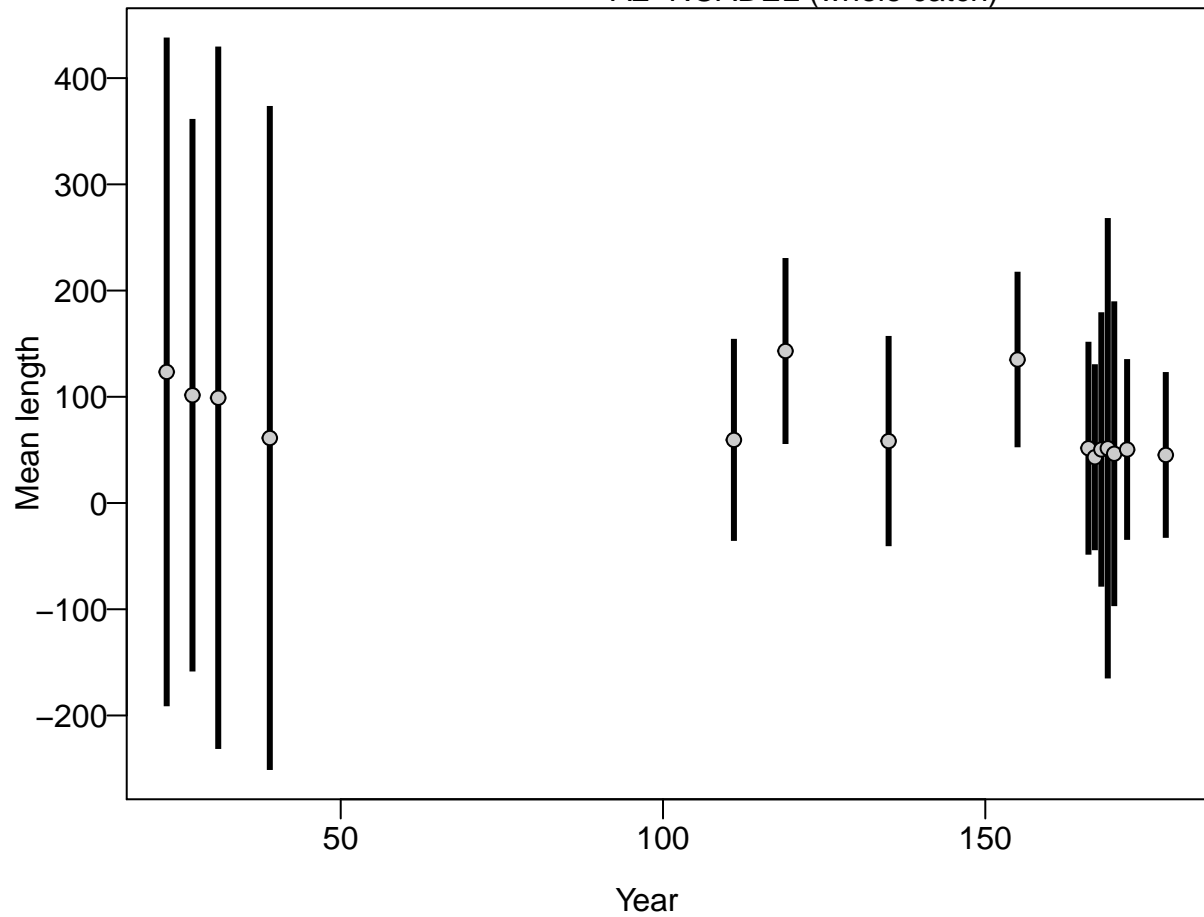
A6-OBJ (whole catch)

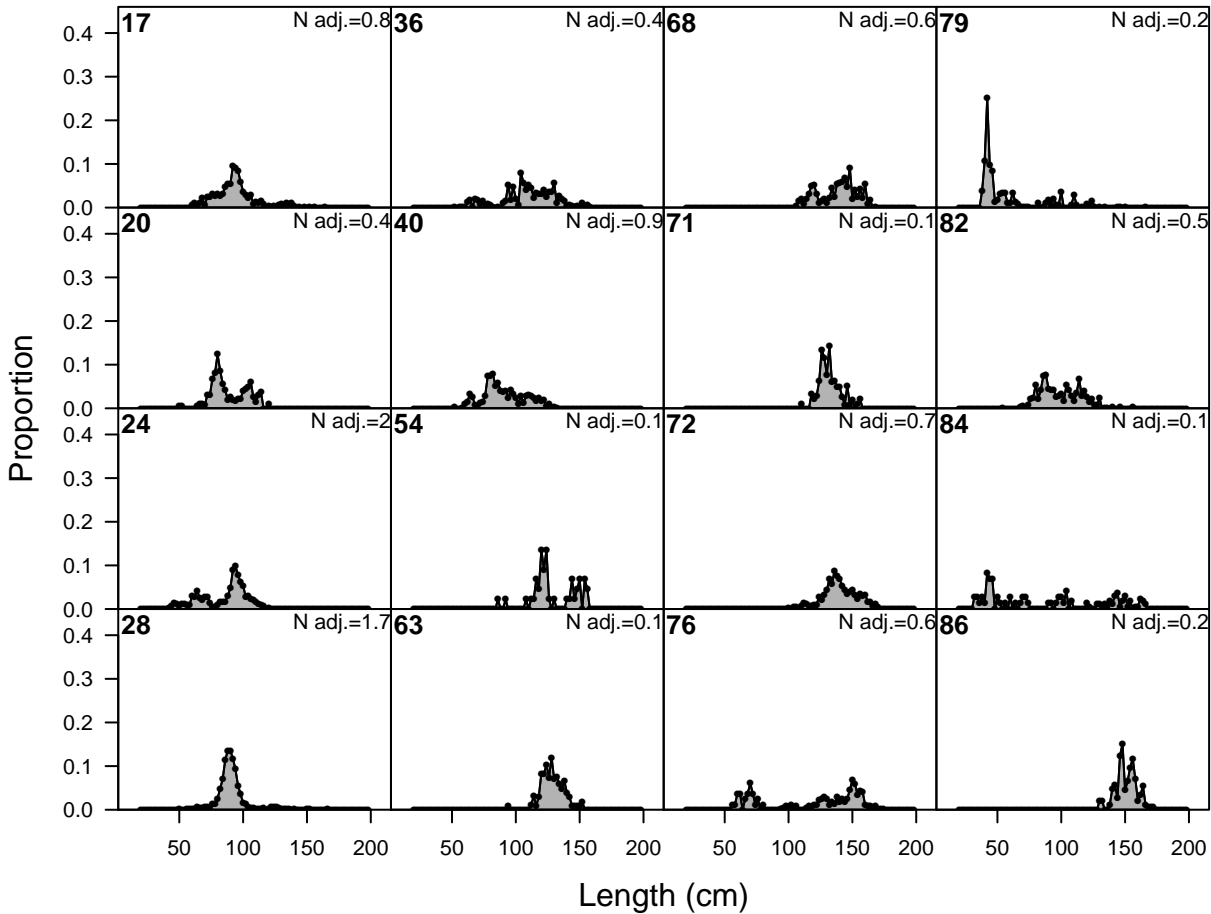


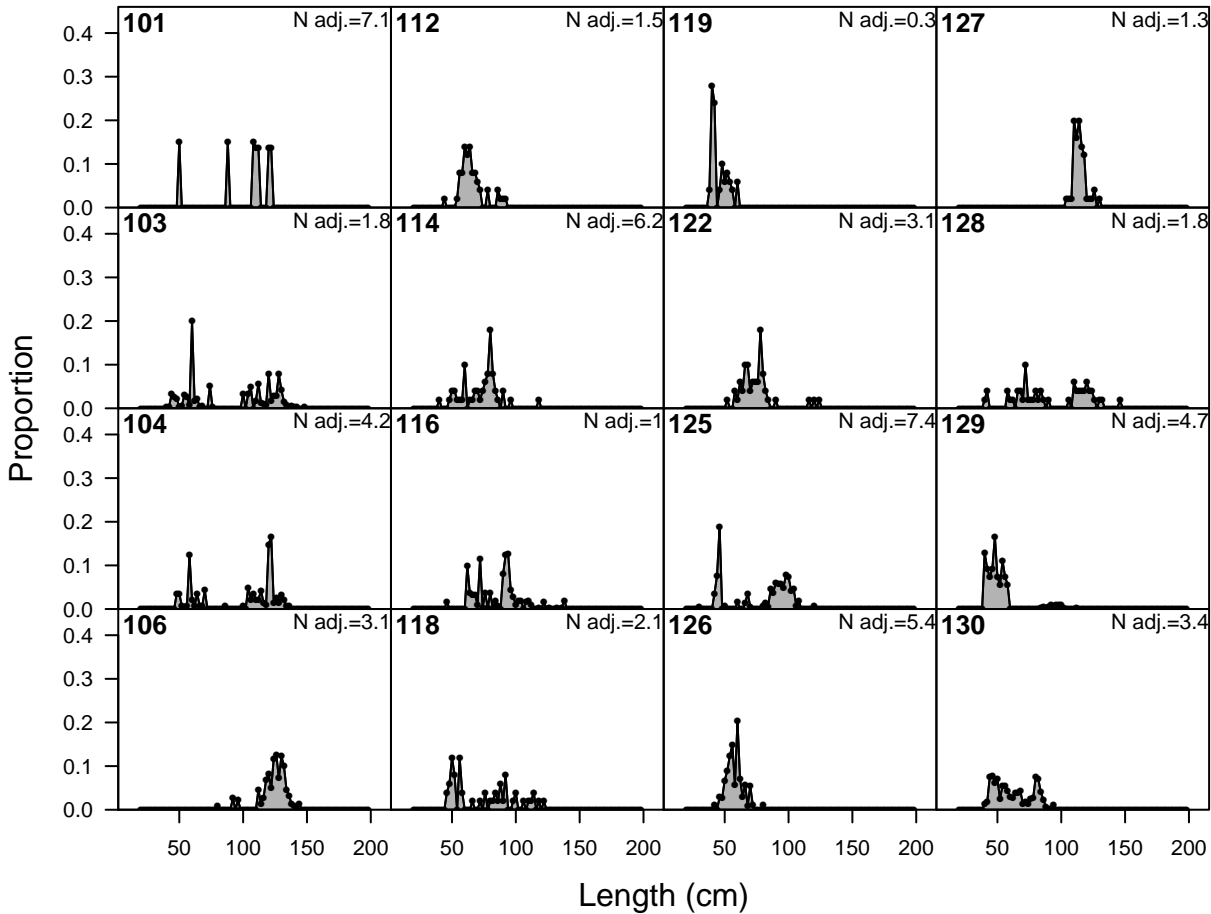


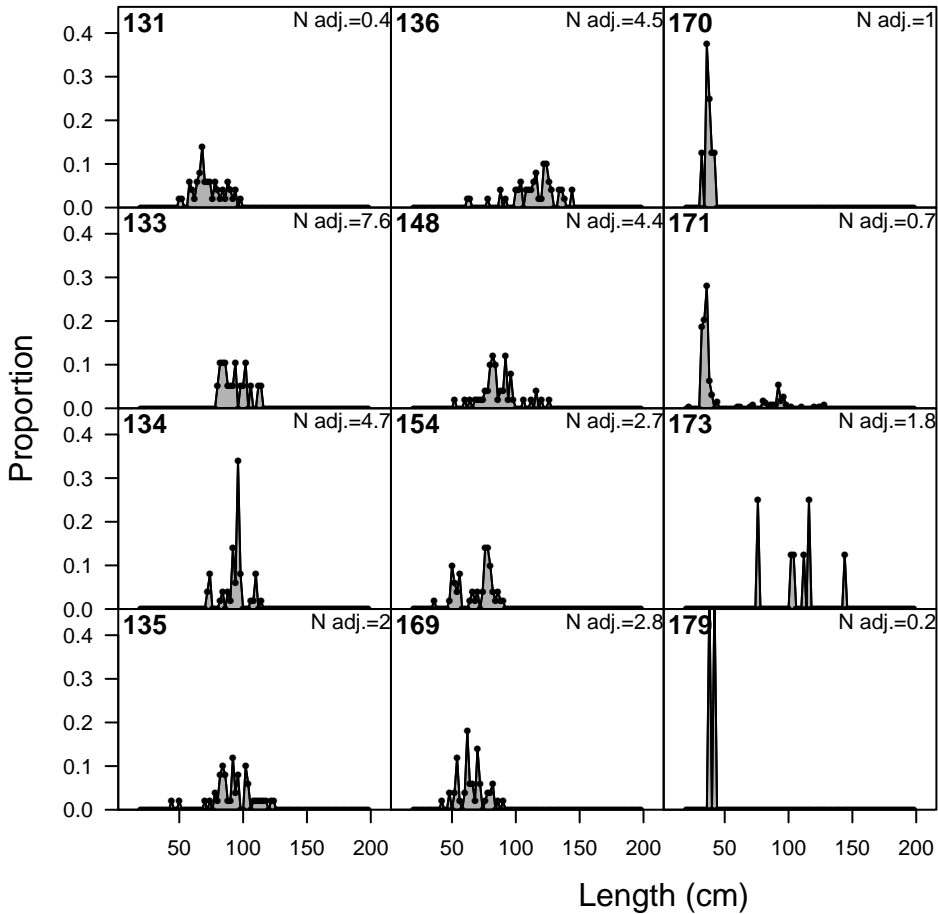


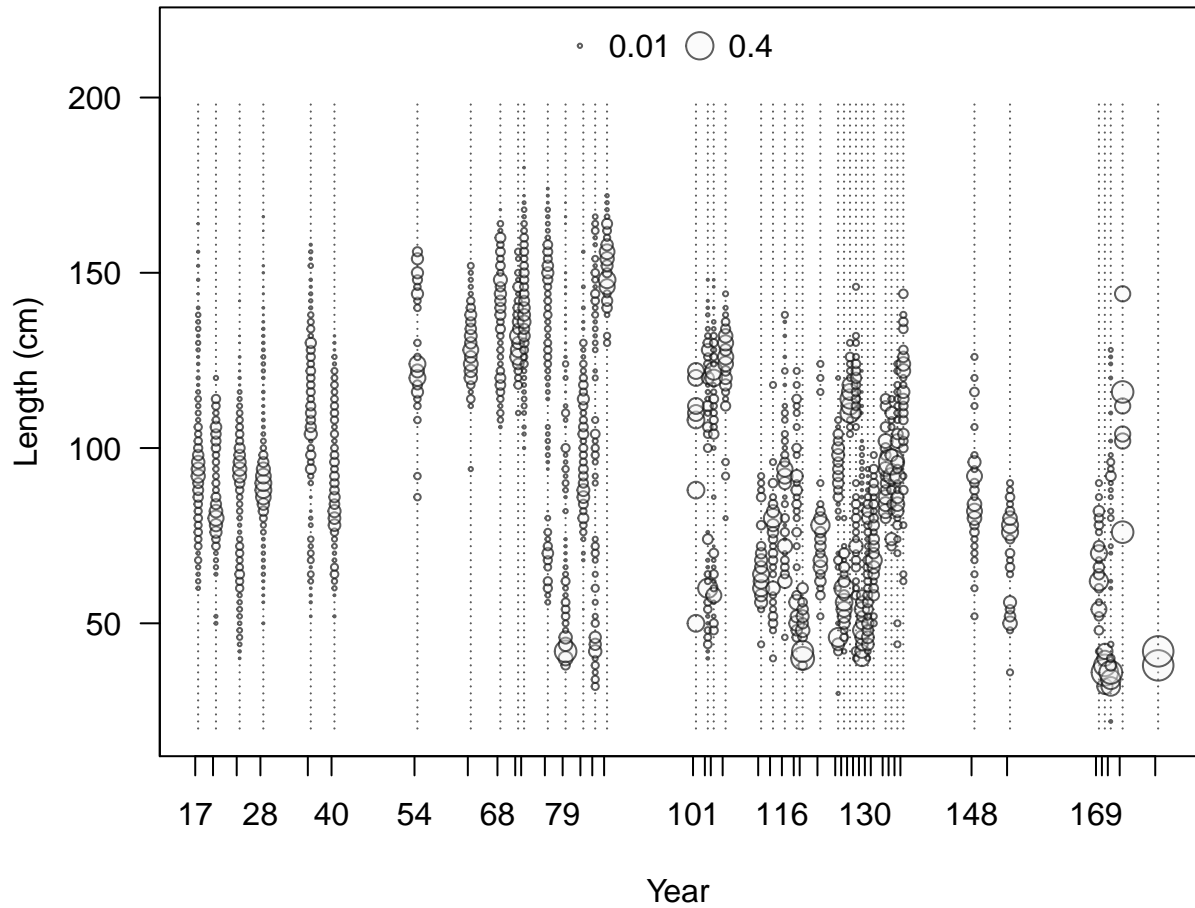
A2-NOADEL (whole catch)



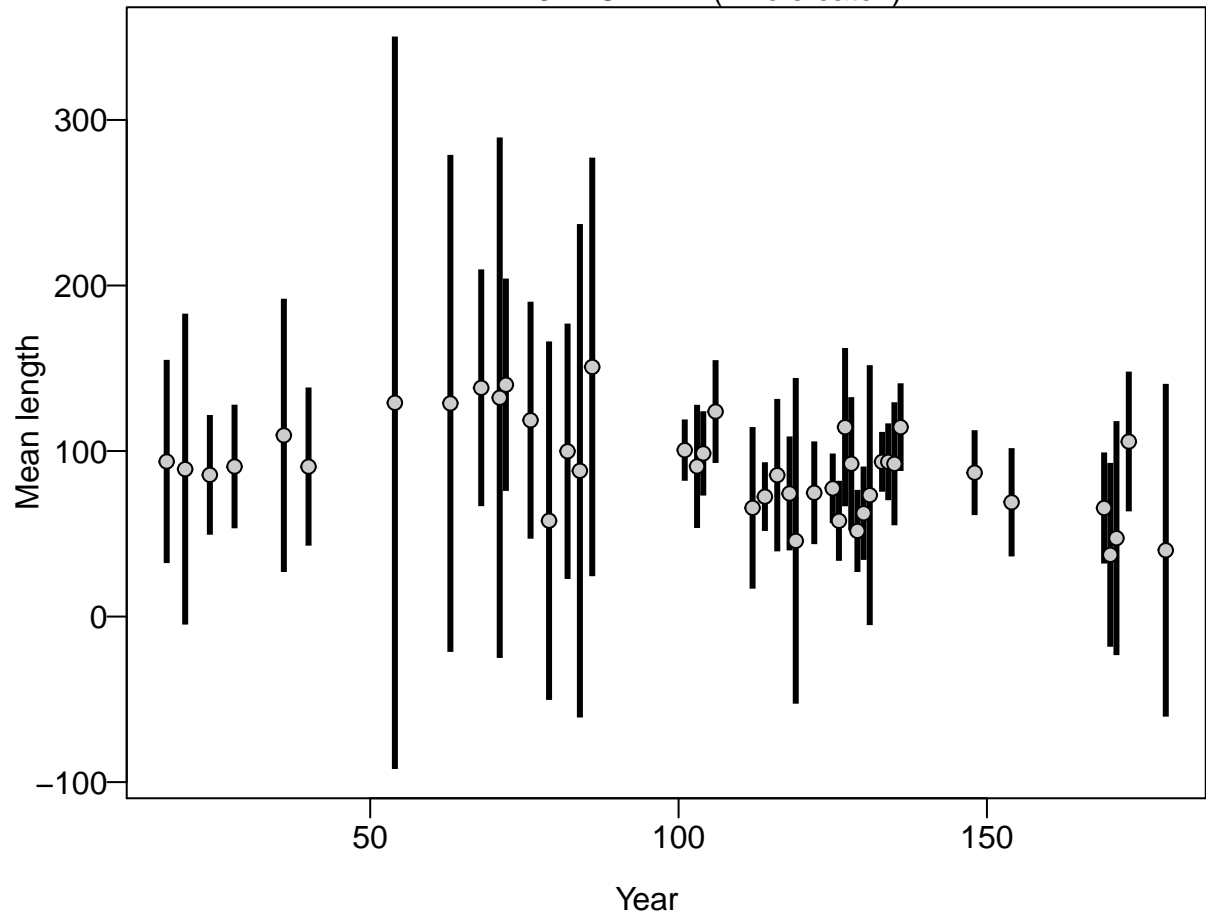


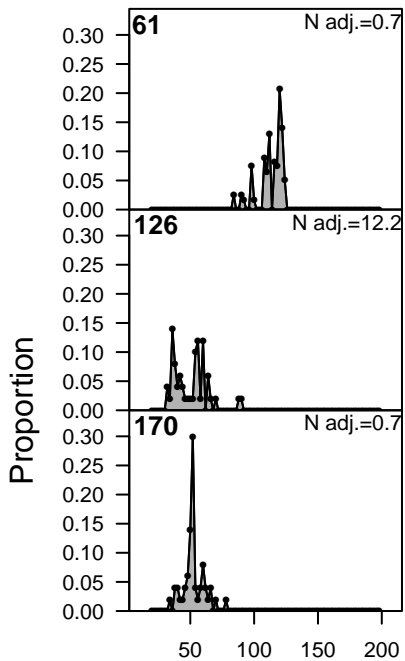




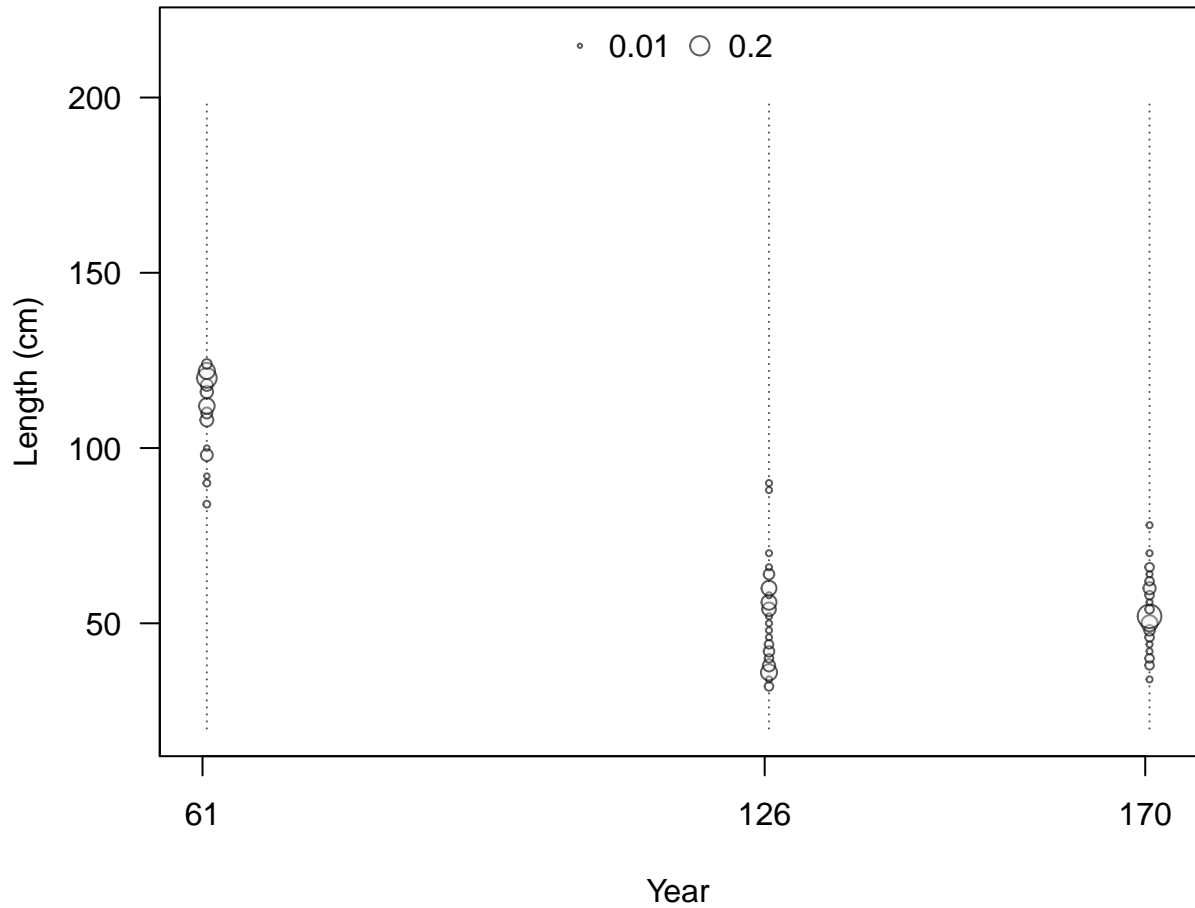


A3-NOADEL (whole catch)

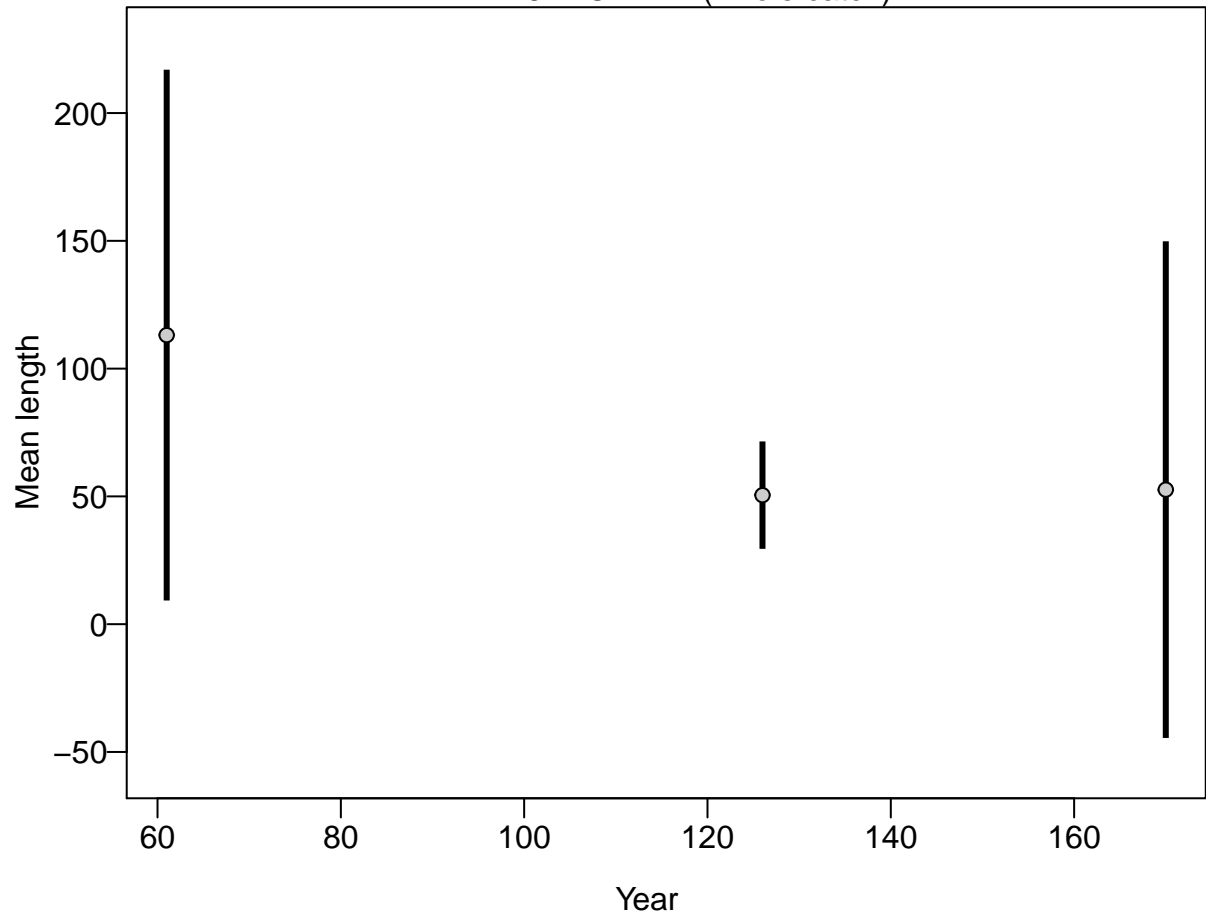




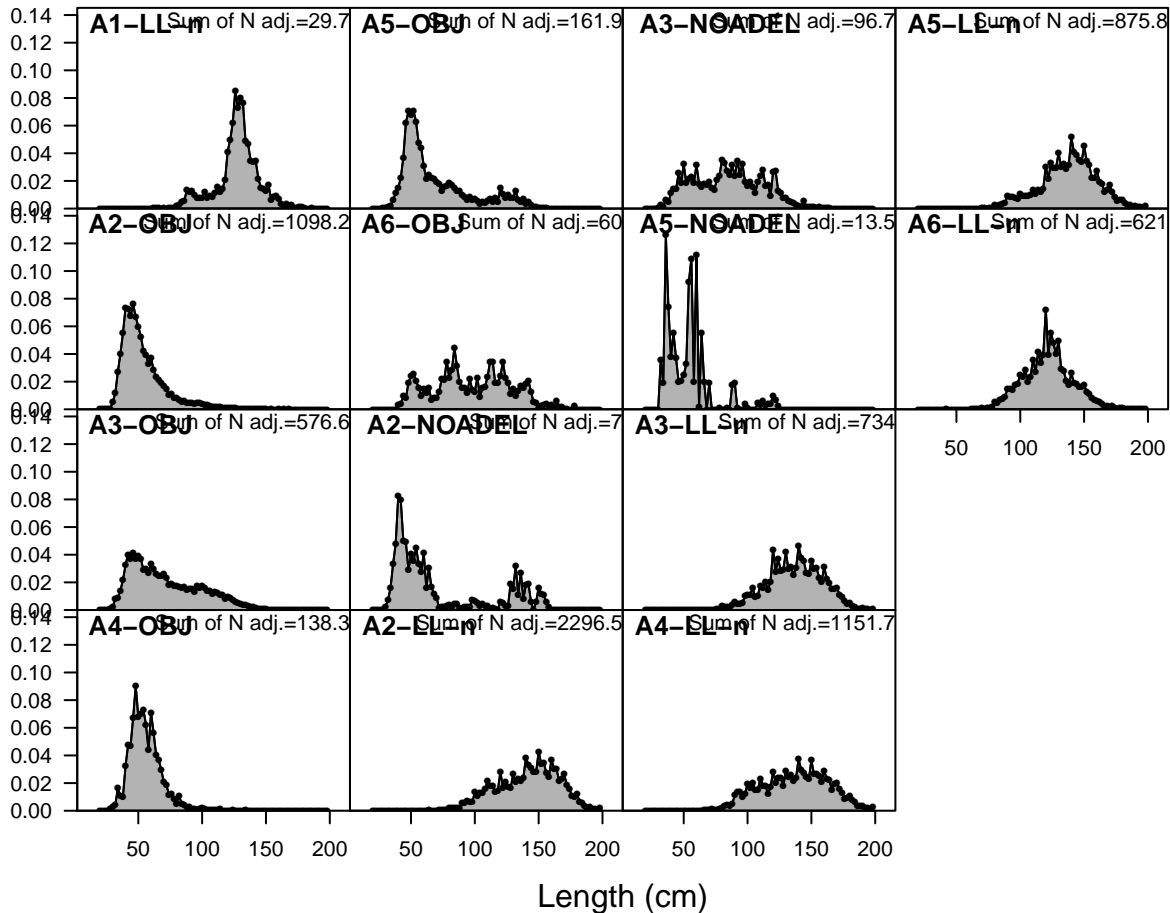
Length (cm)

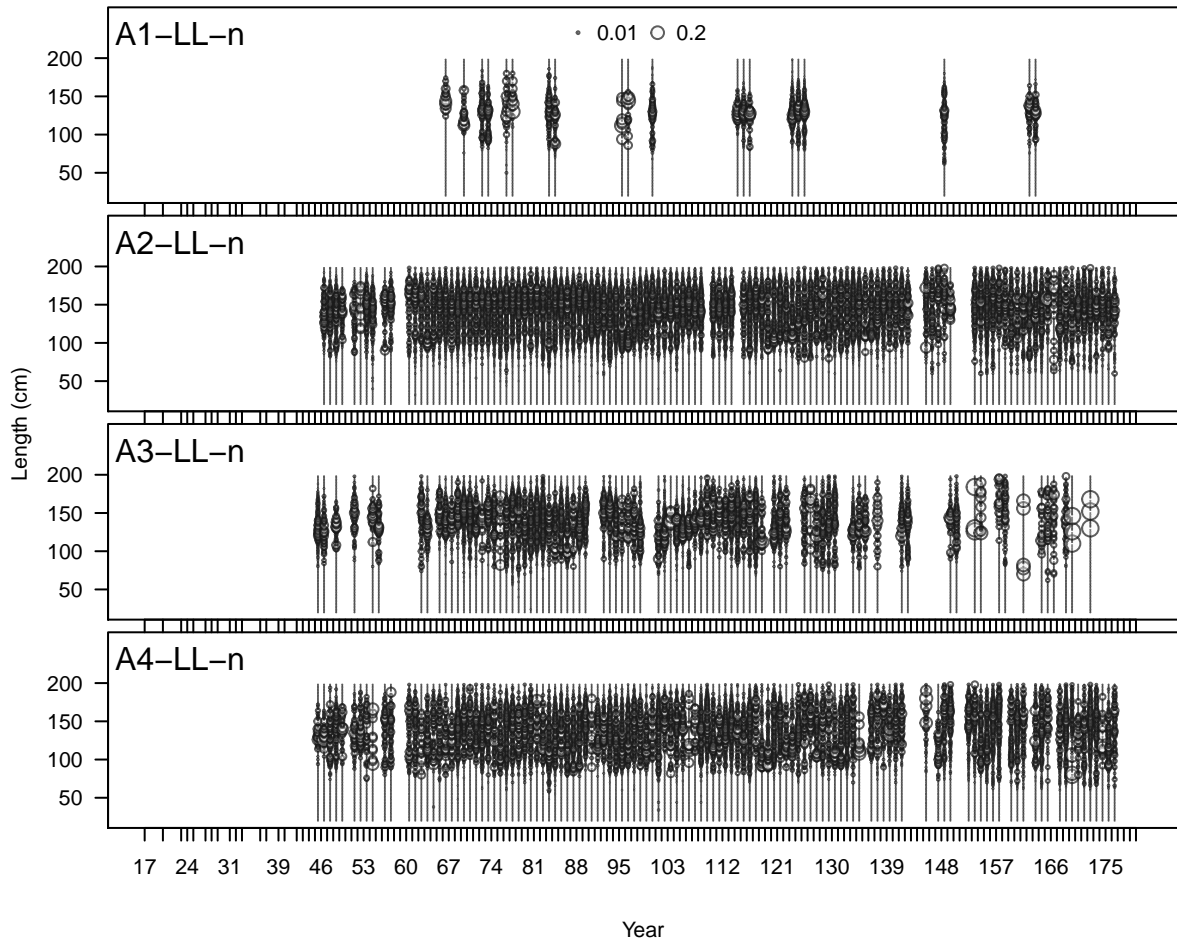


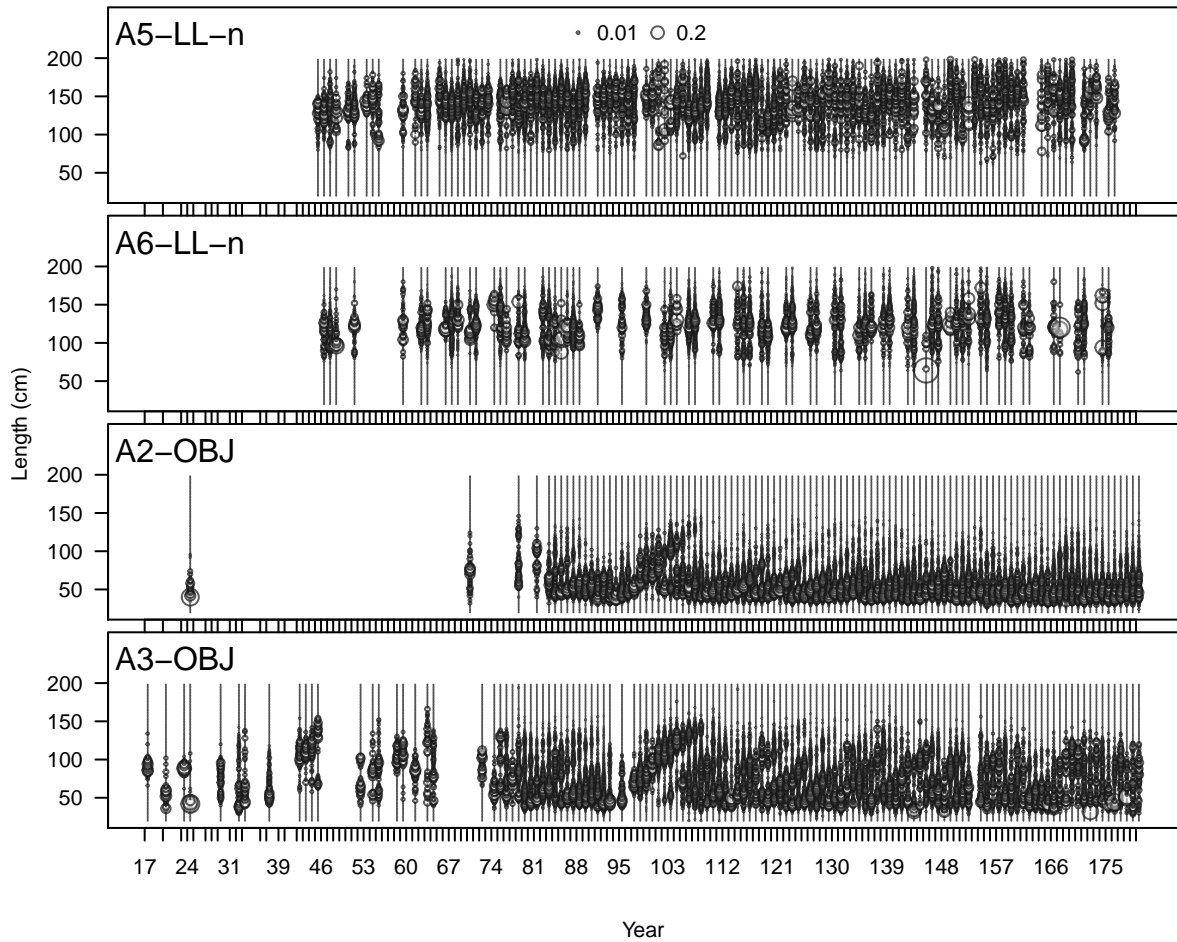
A5-NOADEL (whole catch)

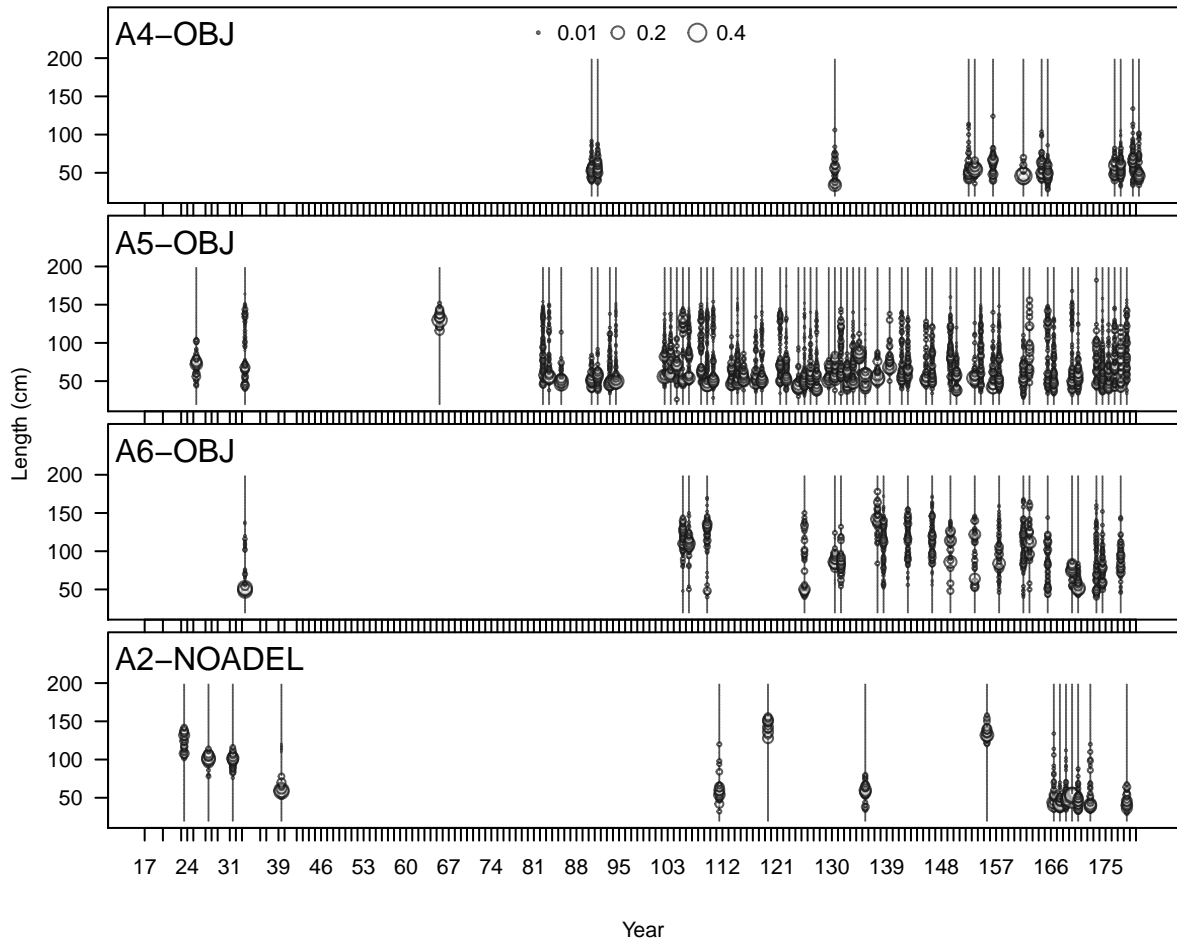


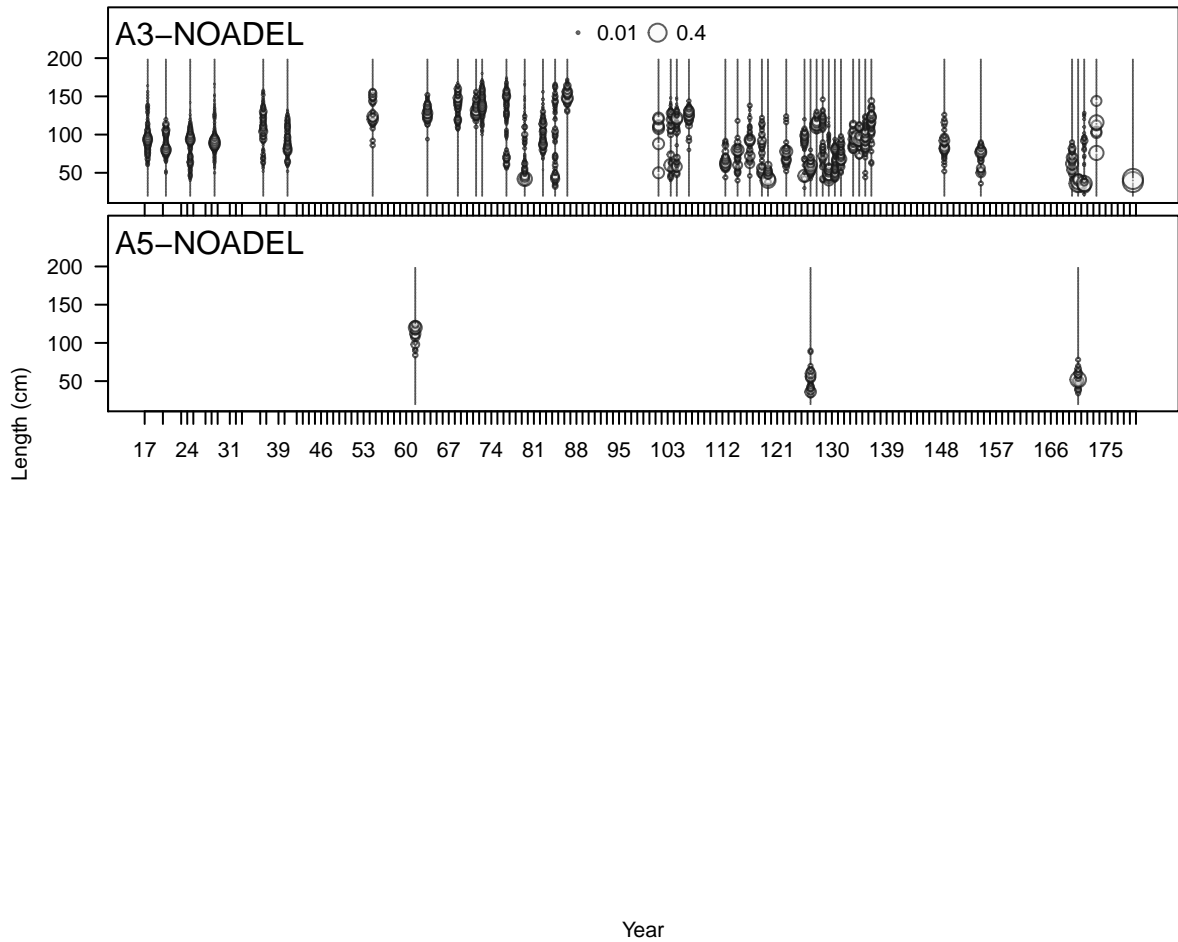
Proportion



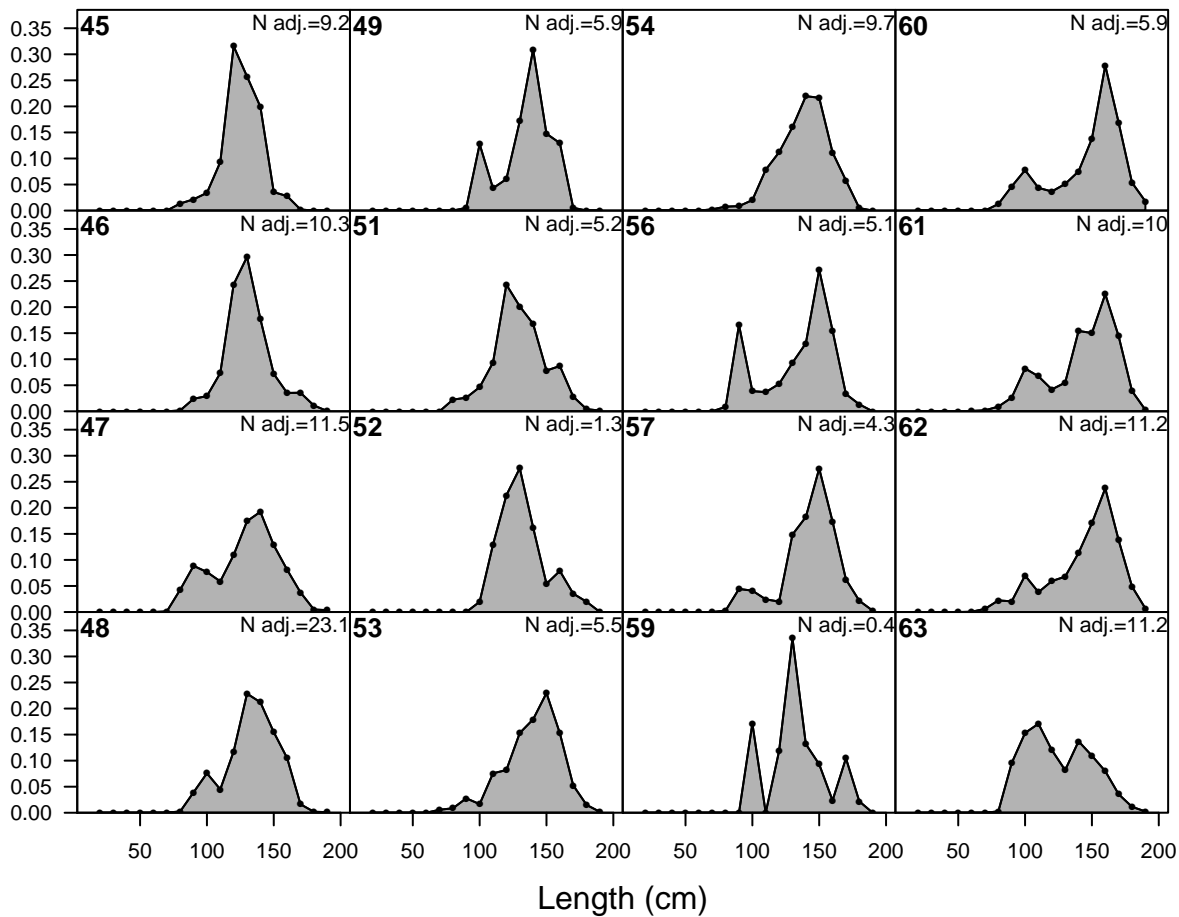




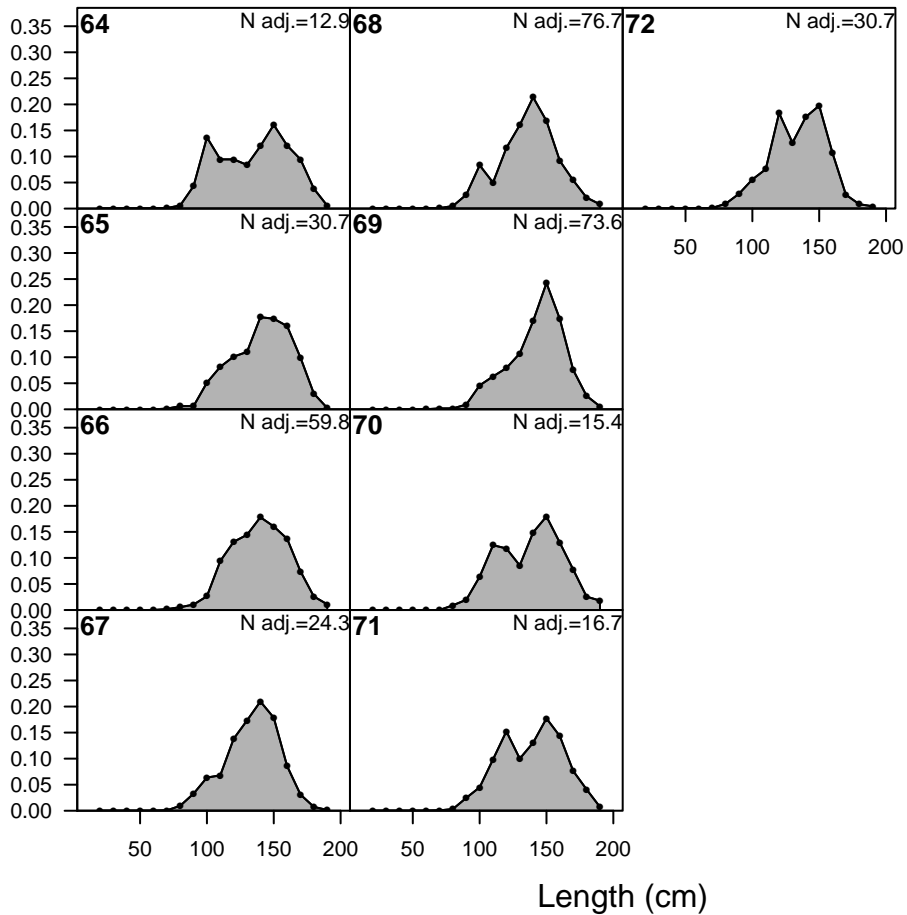


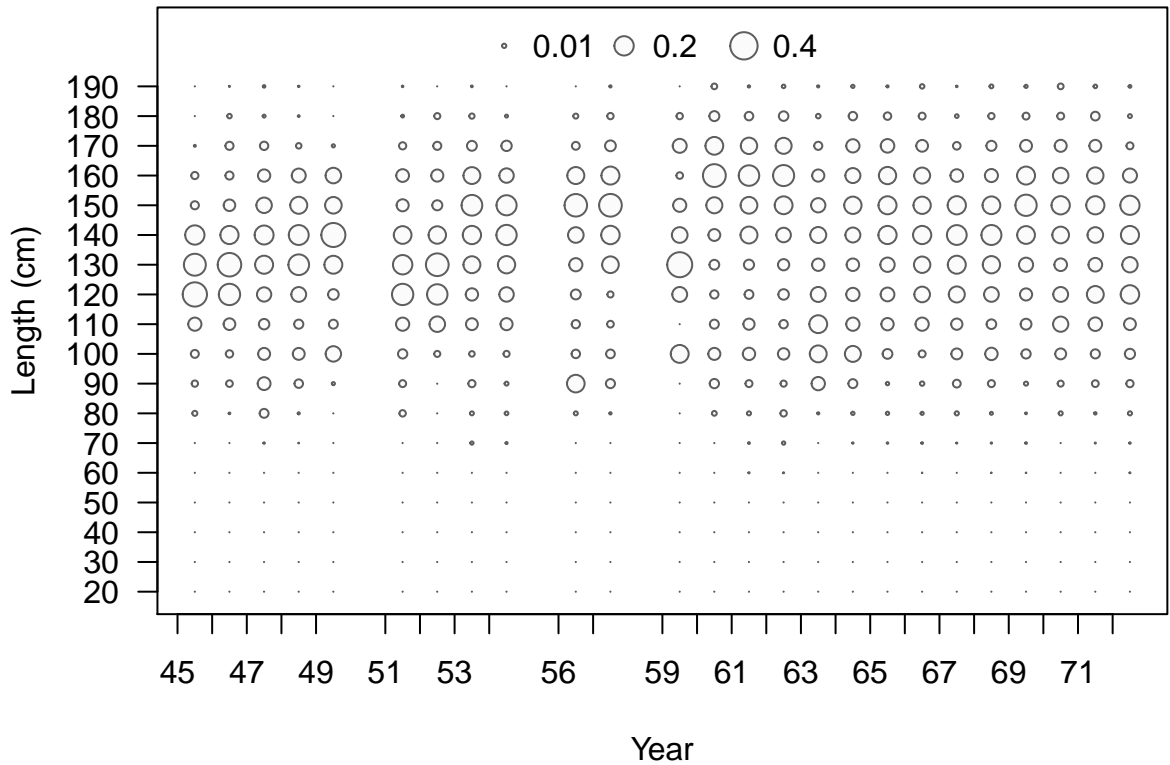


Proportion

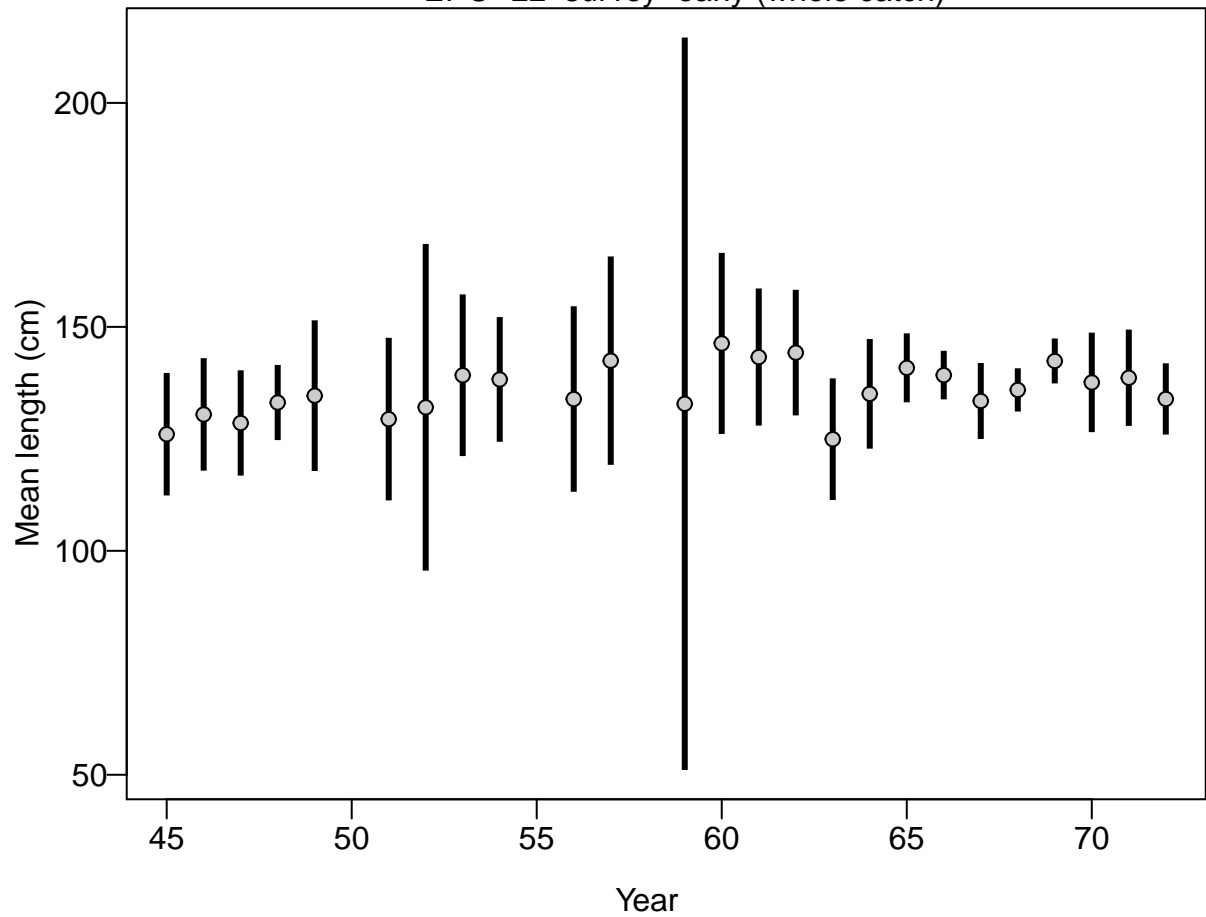


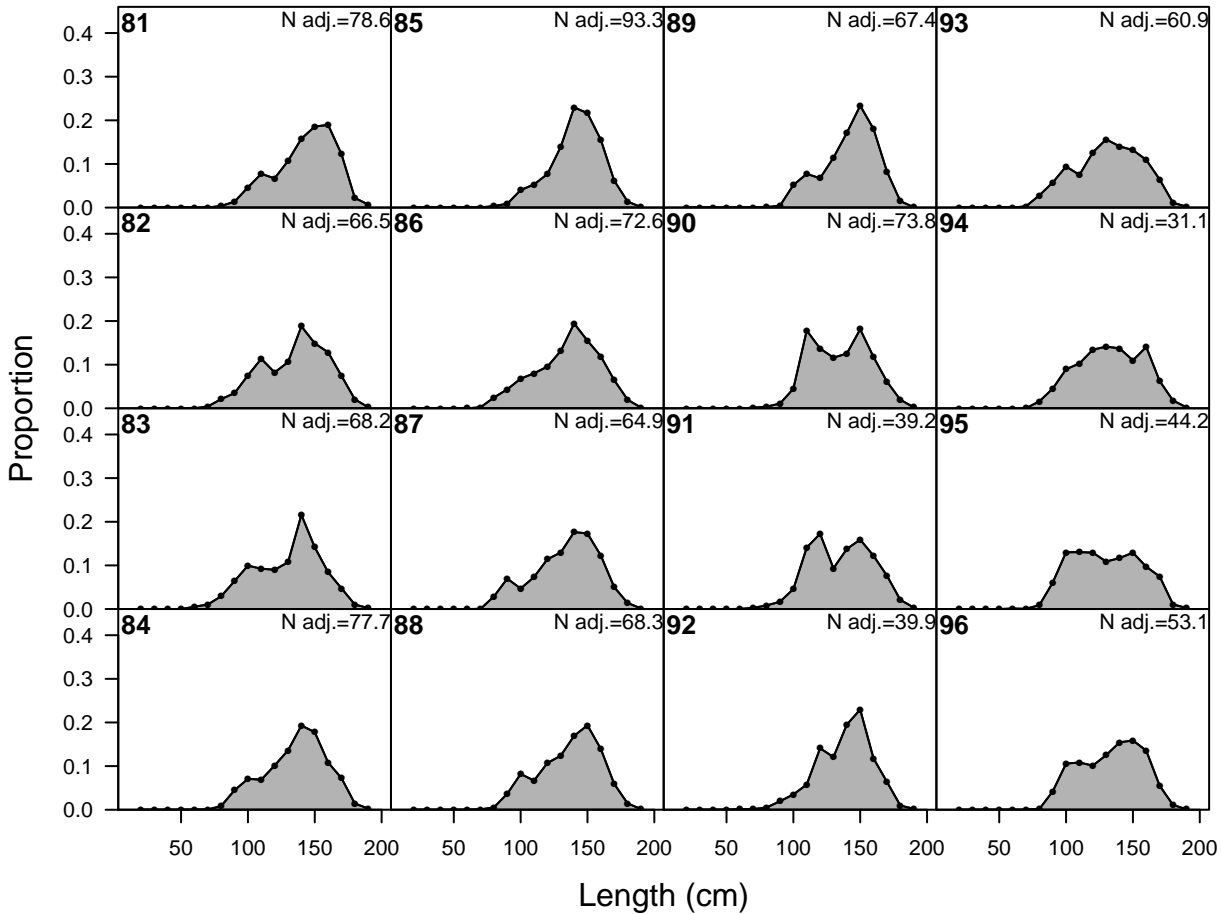
Proportion

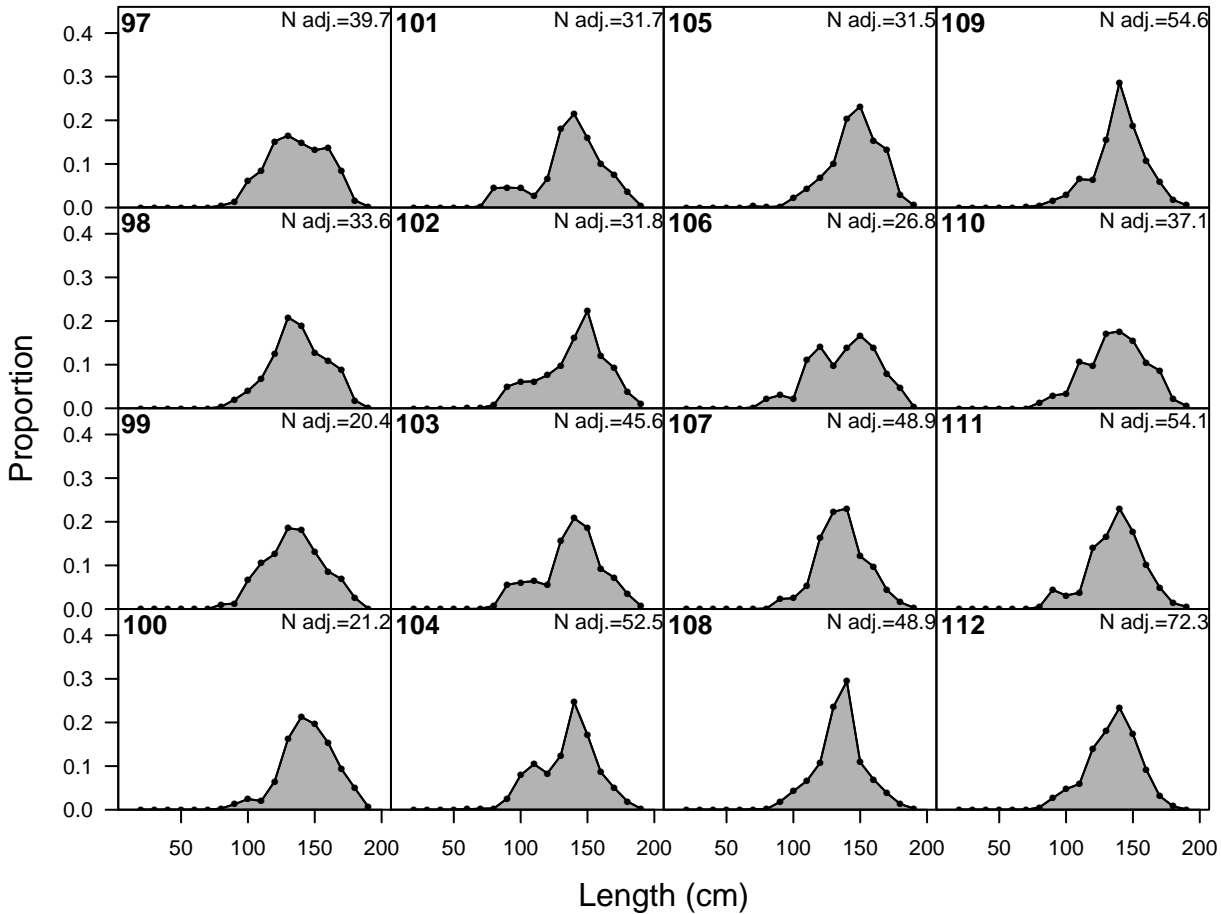


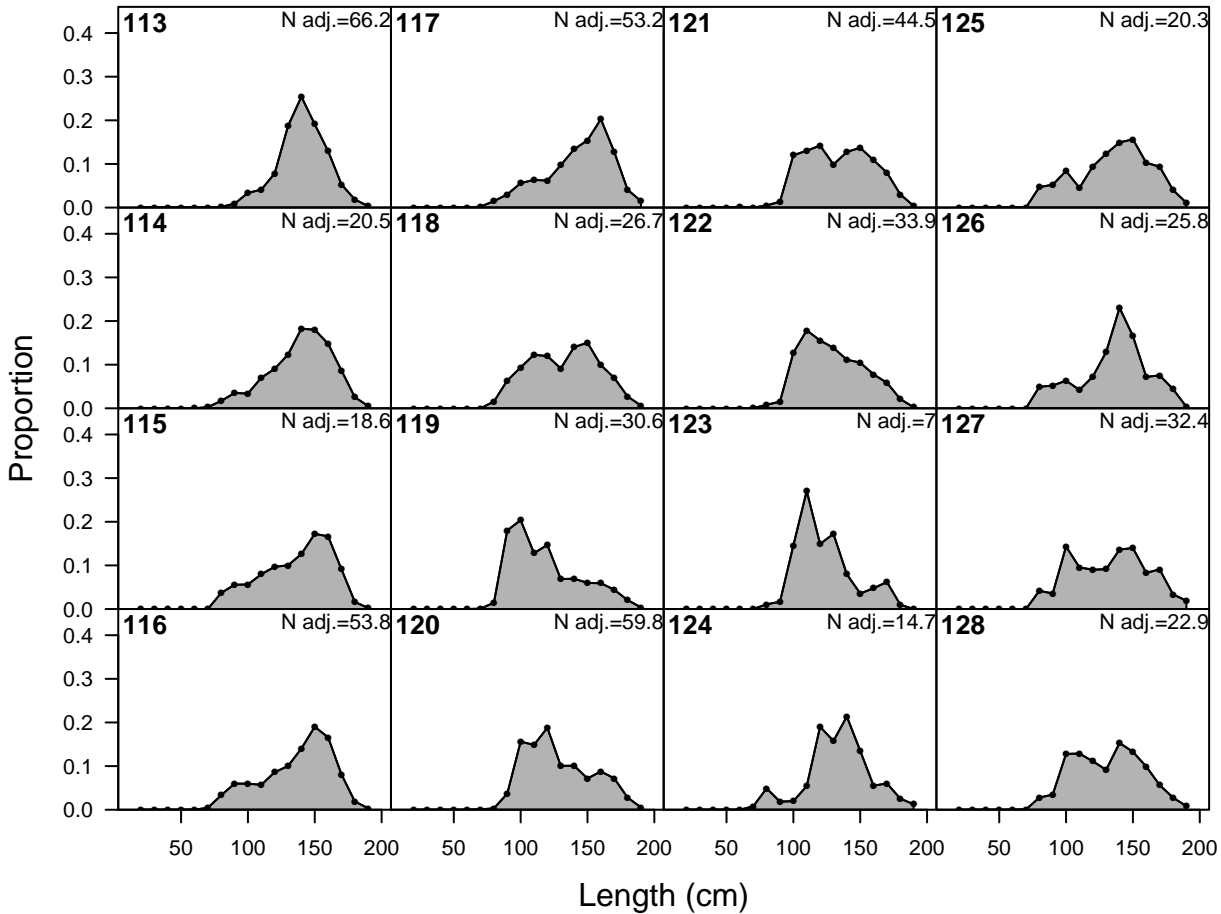


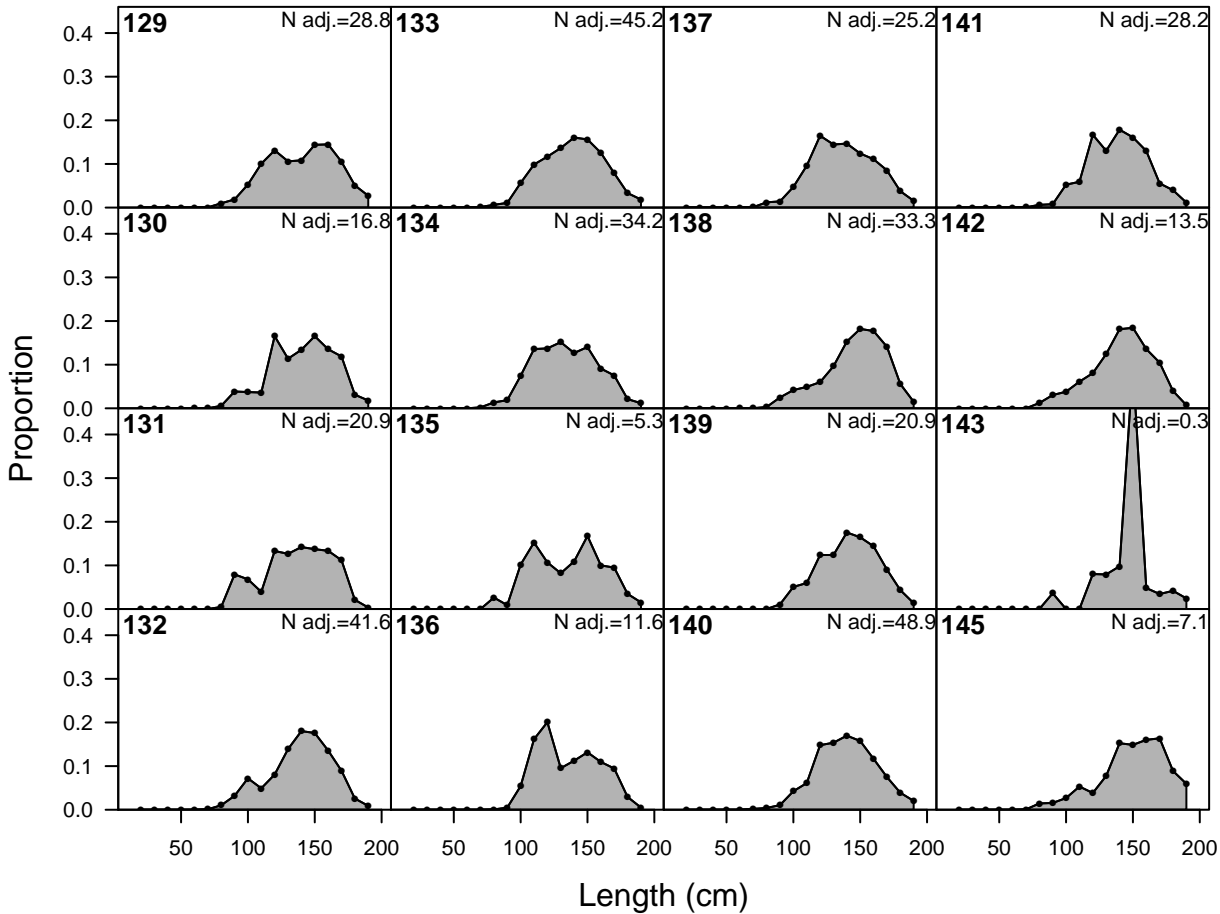
EPO-LL-survey-early (whole catch)

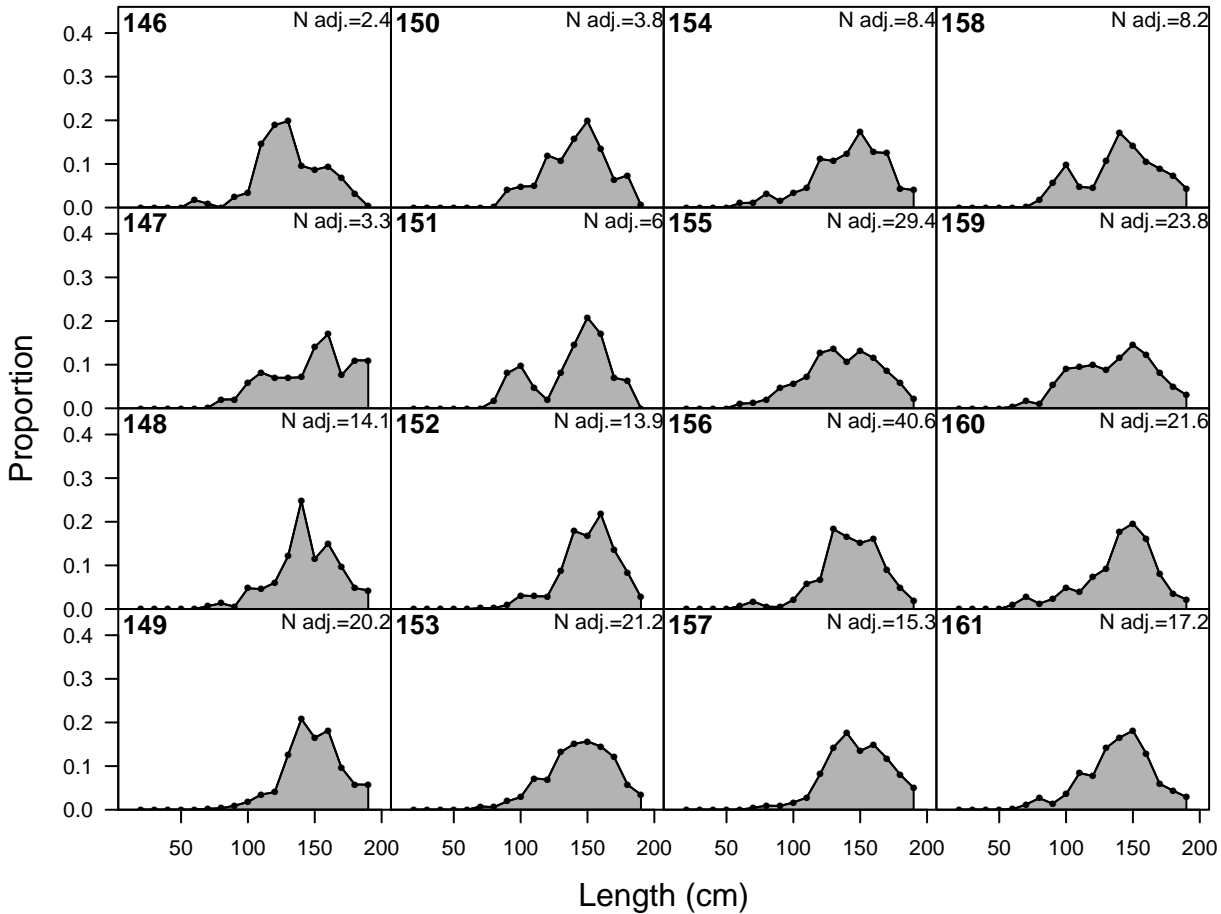


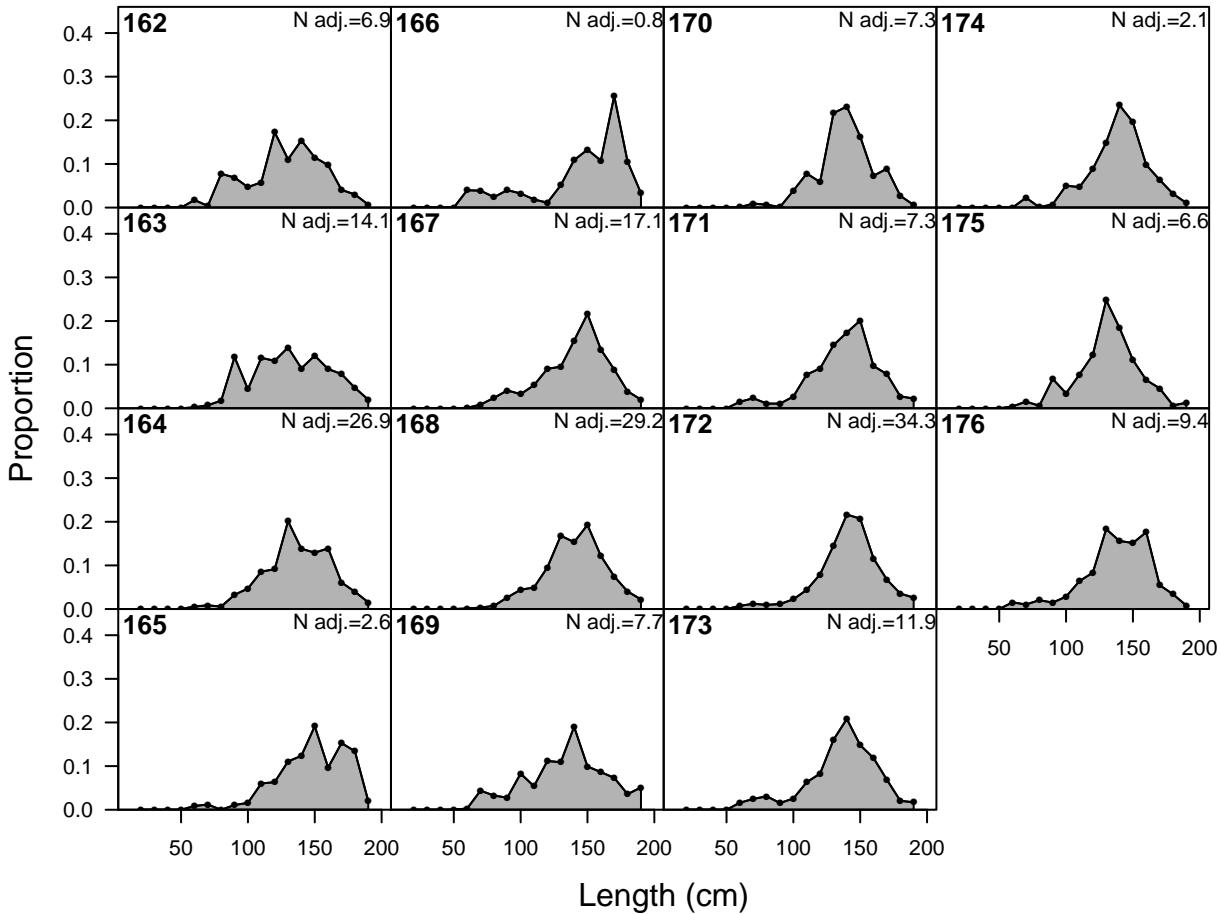


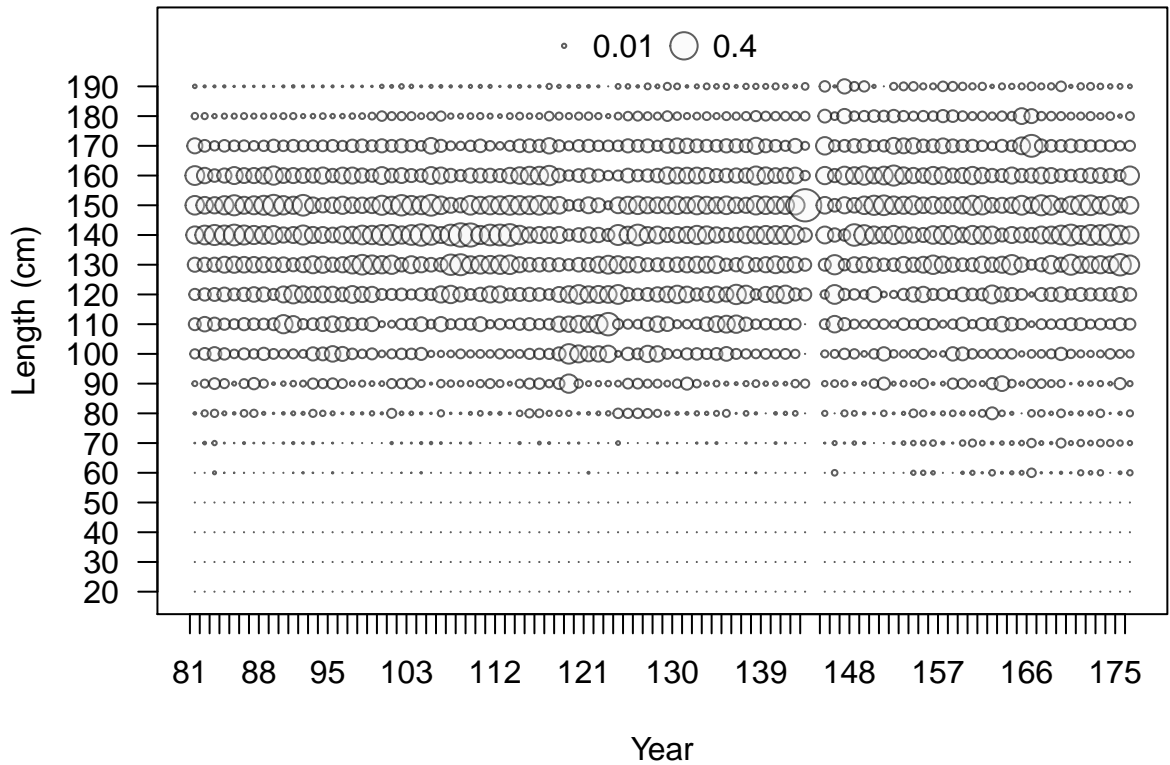




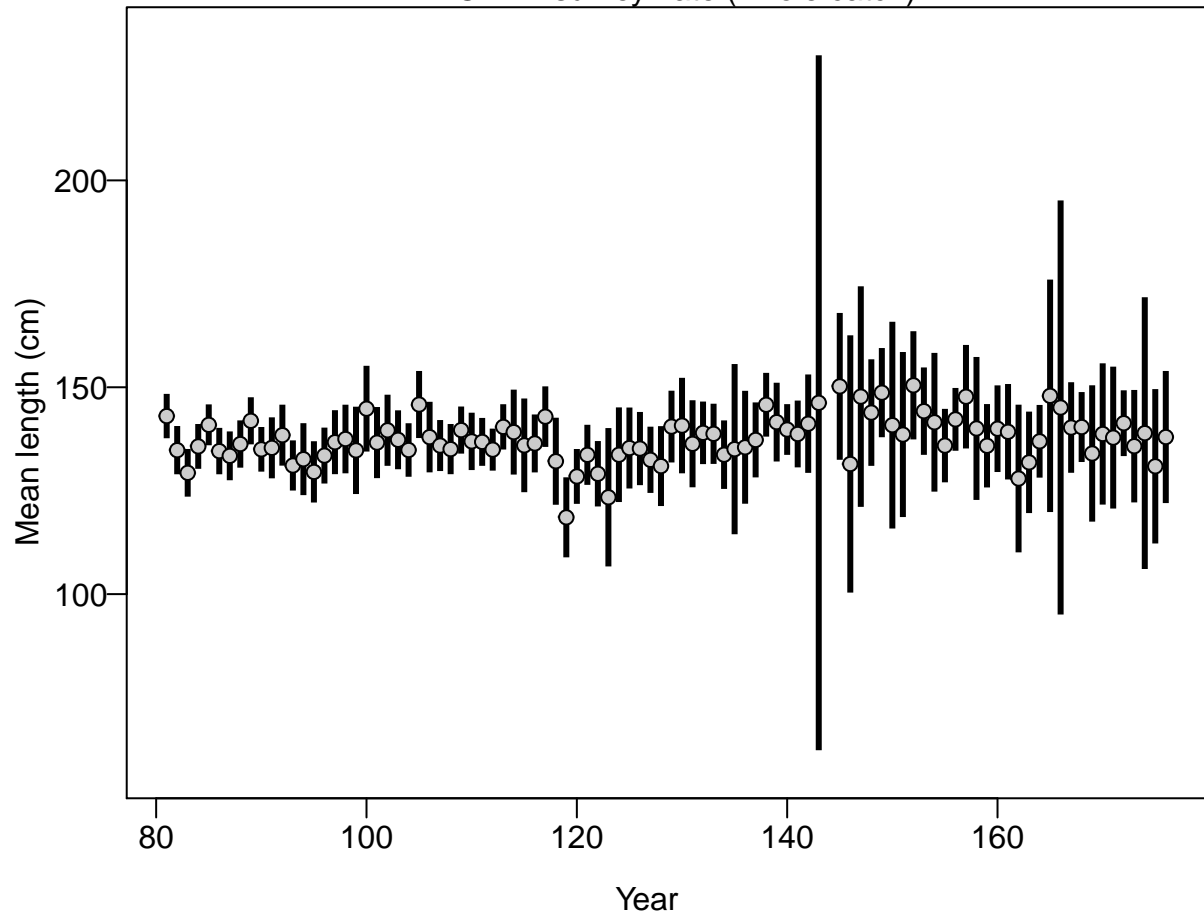




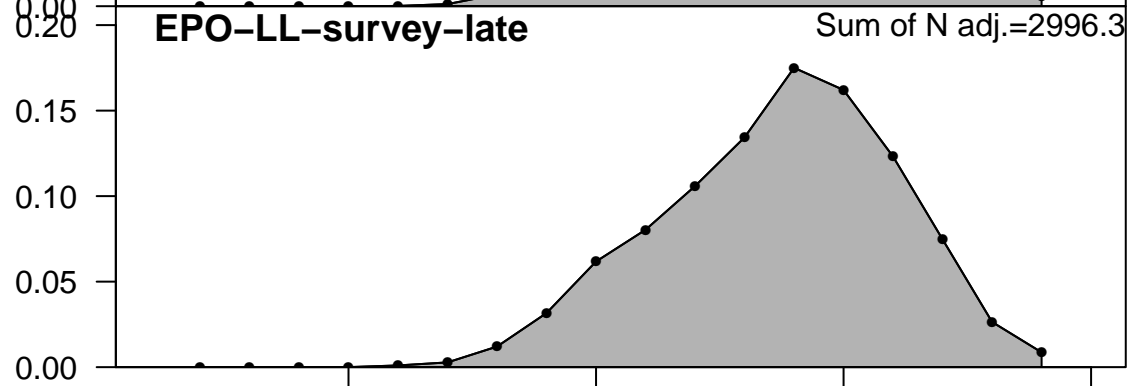
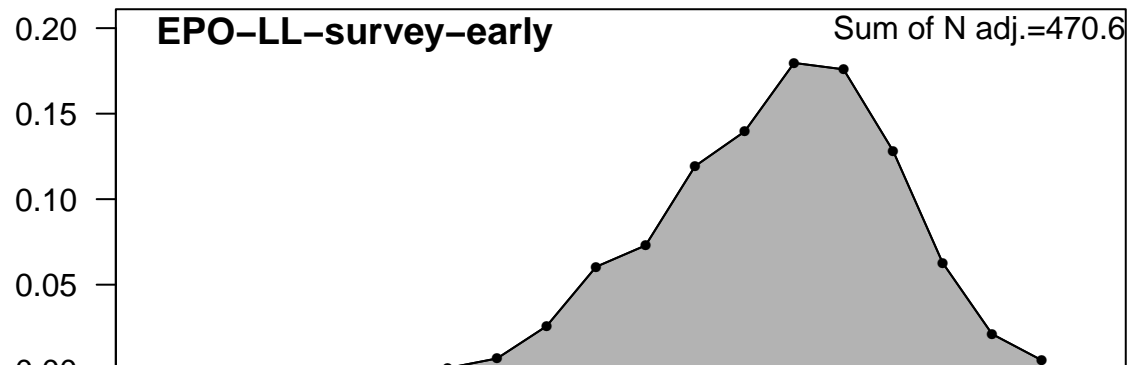




EPO-LL-survey-late (whole catch)

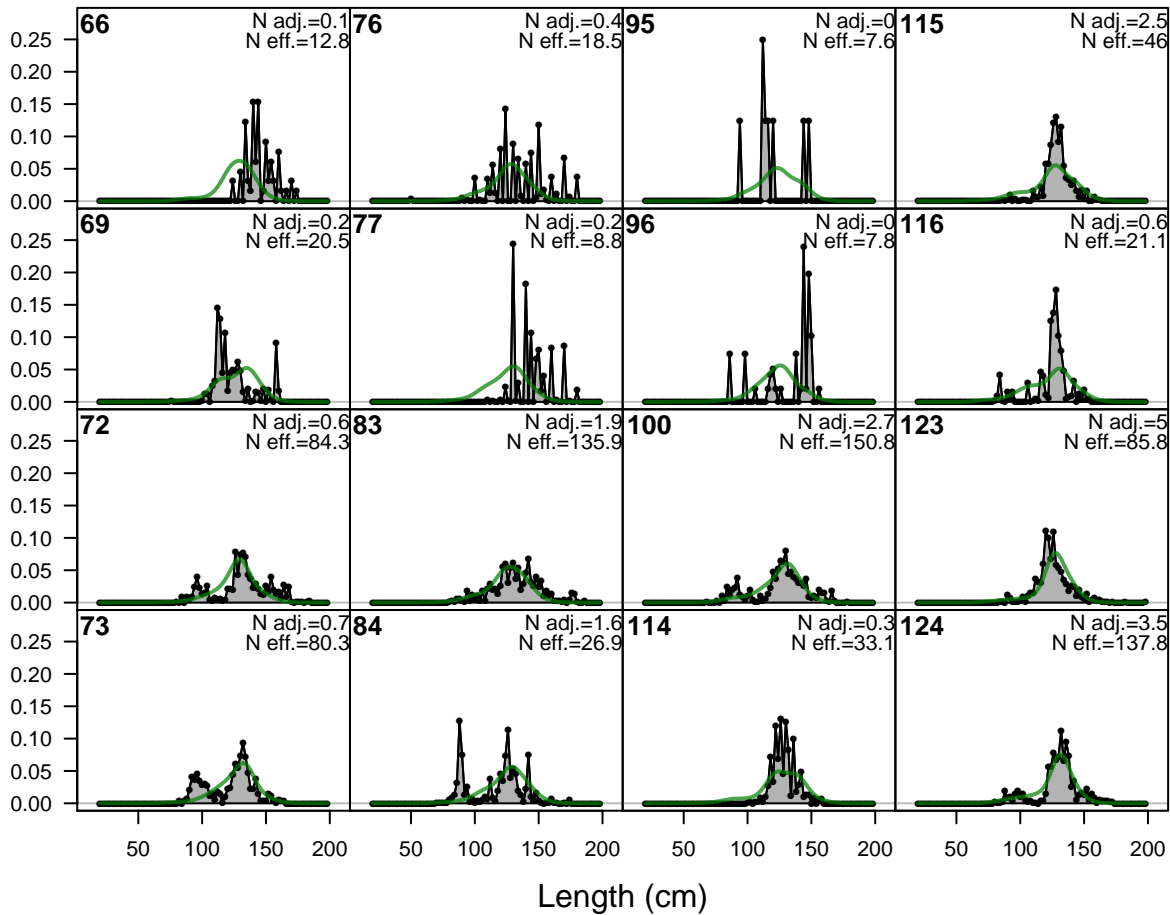


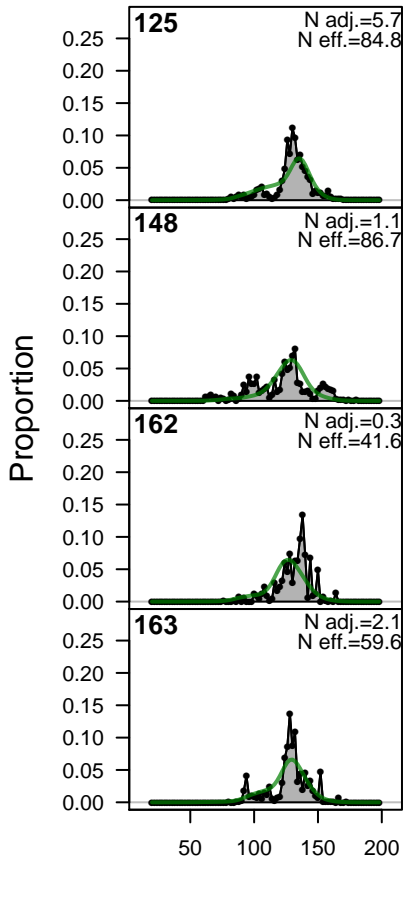
Proportion

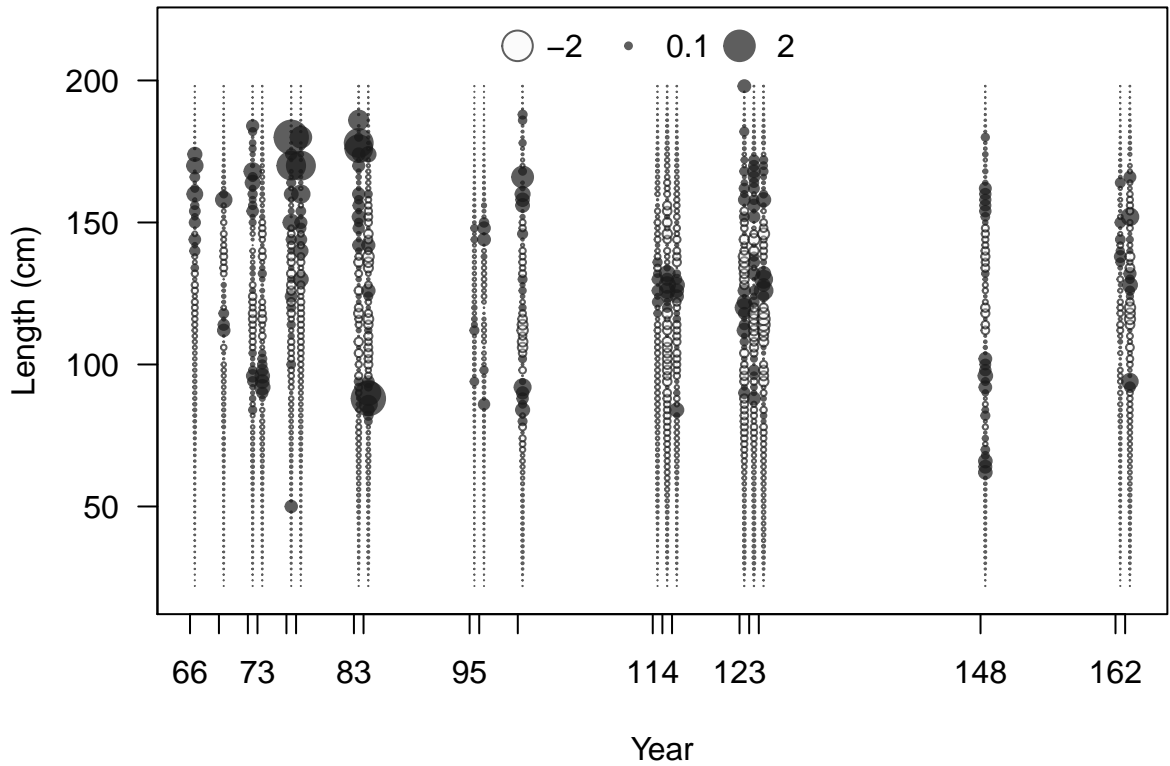


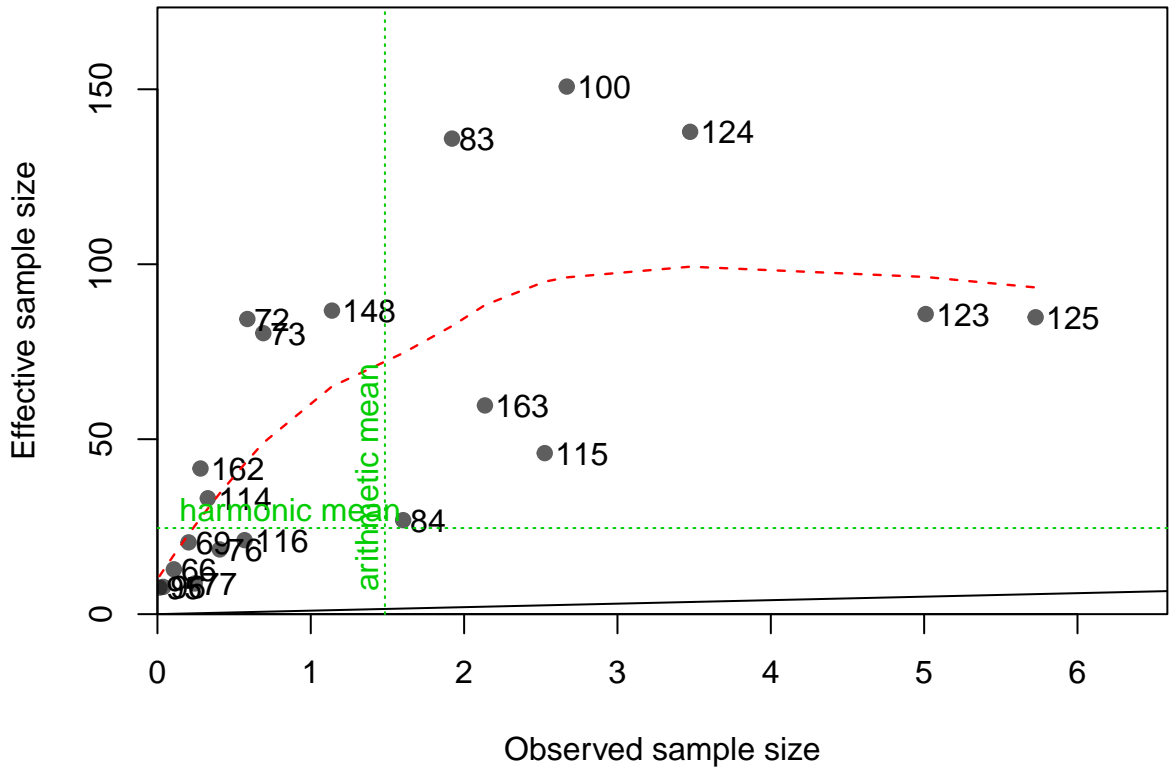
Length (cm)

Proportion

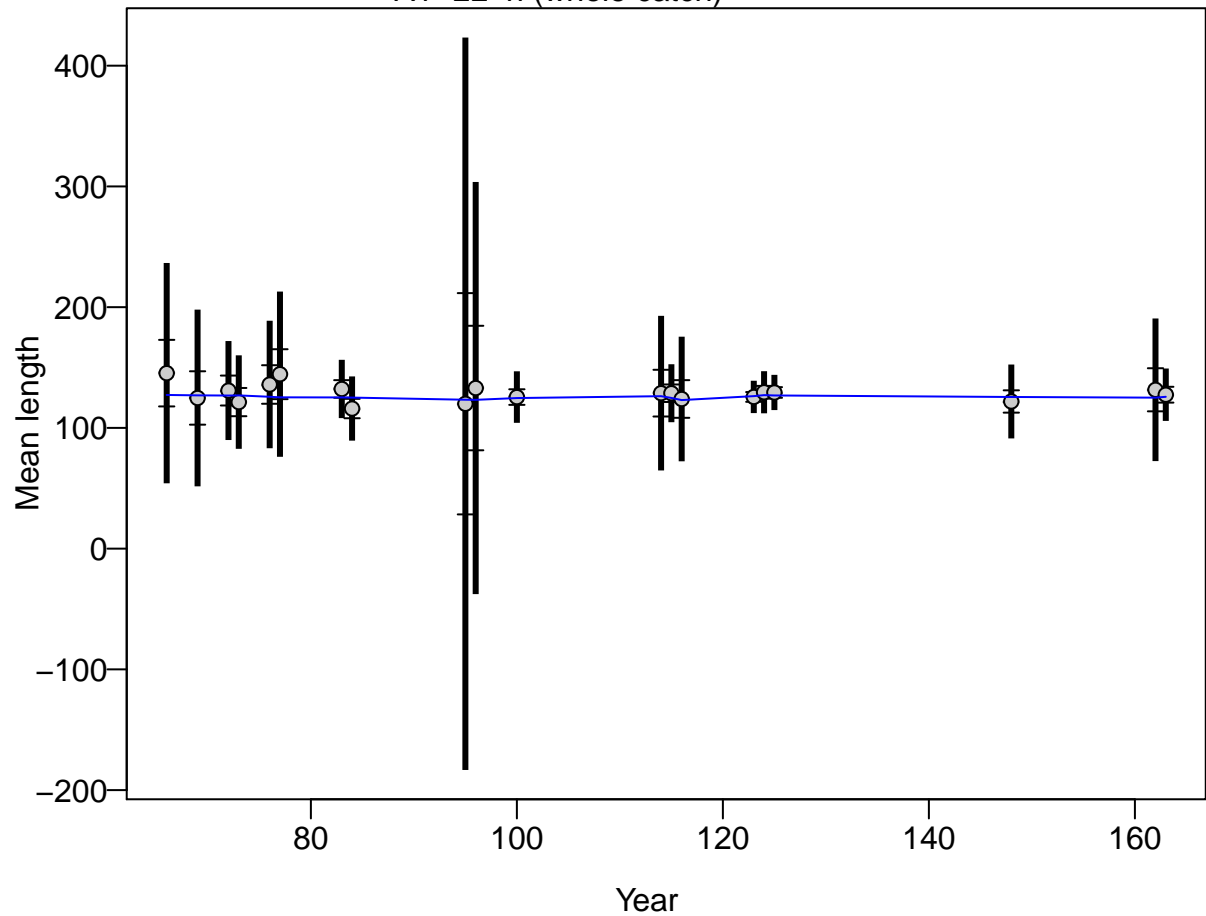




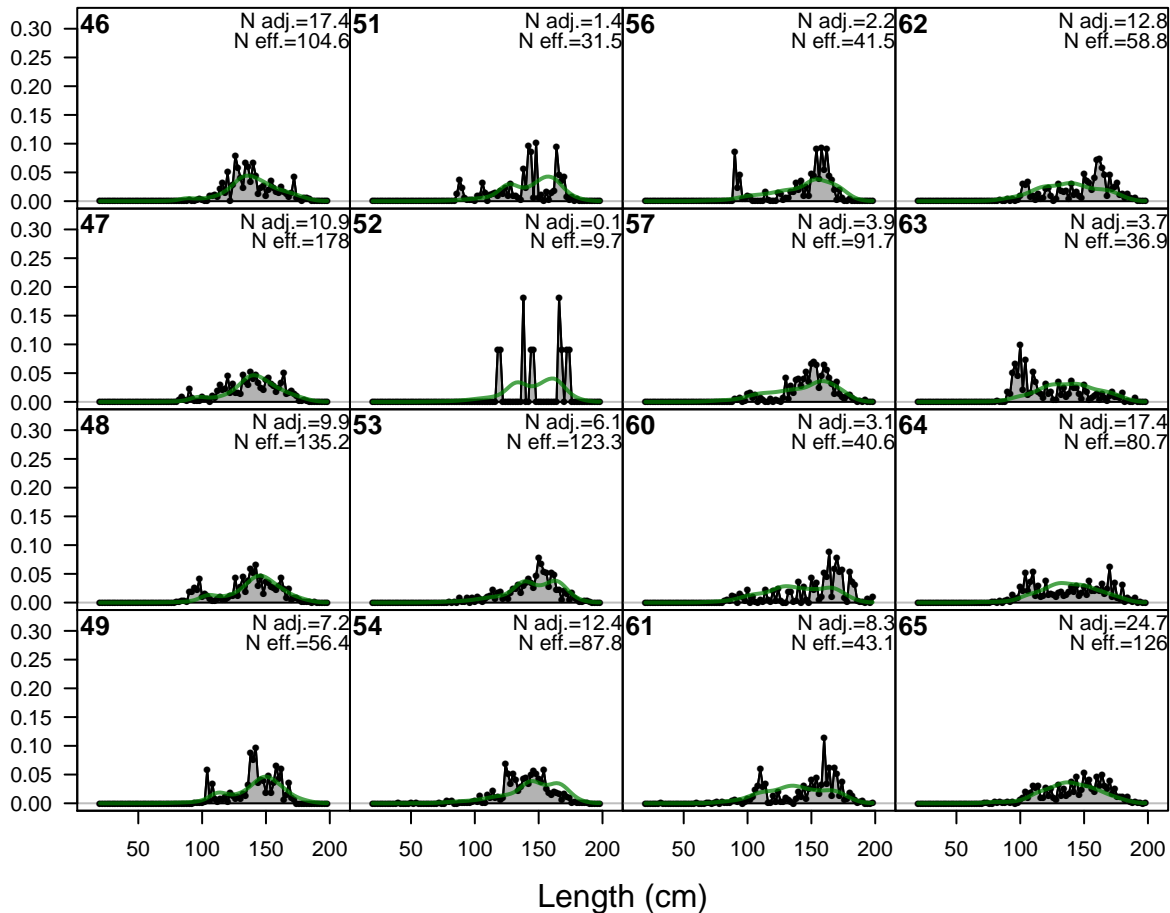




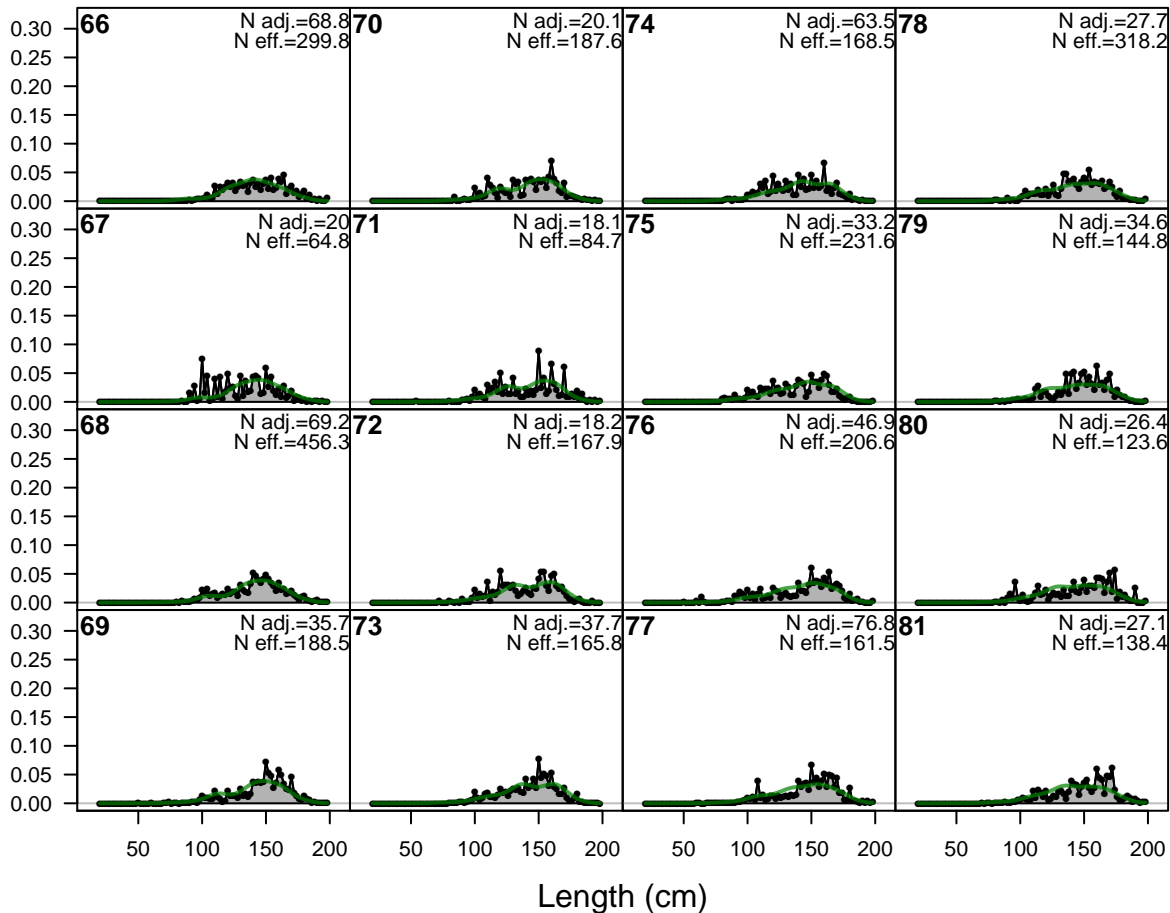
A1-LL-n (whole catch)



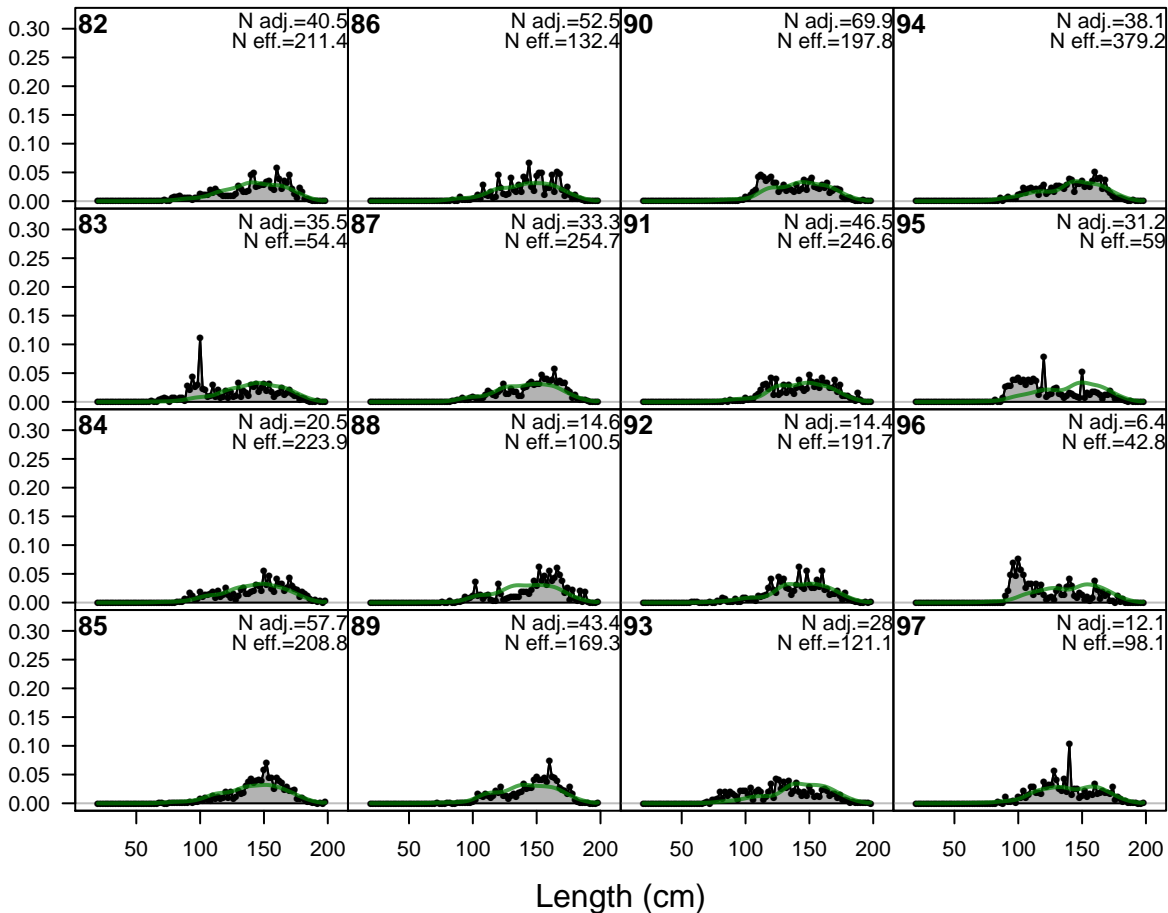
Proportion



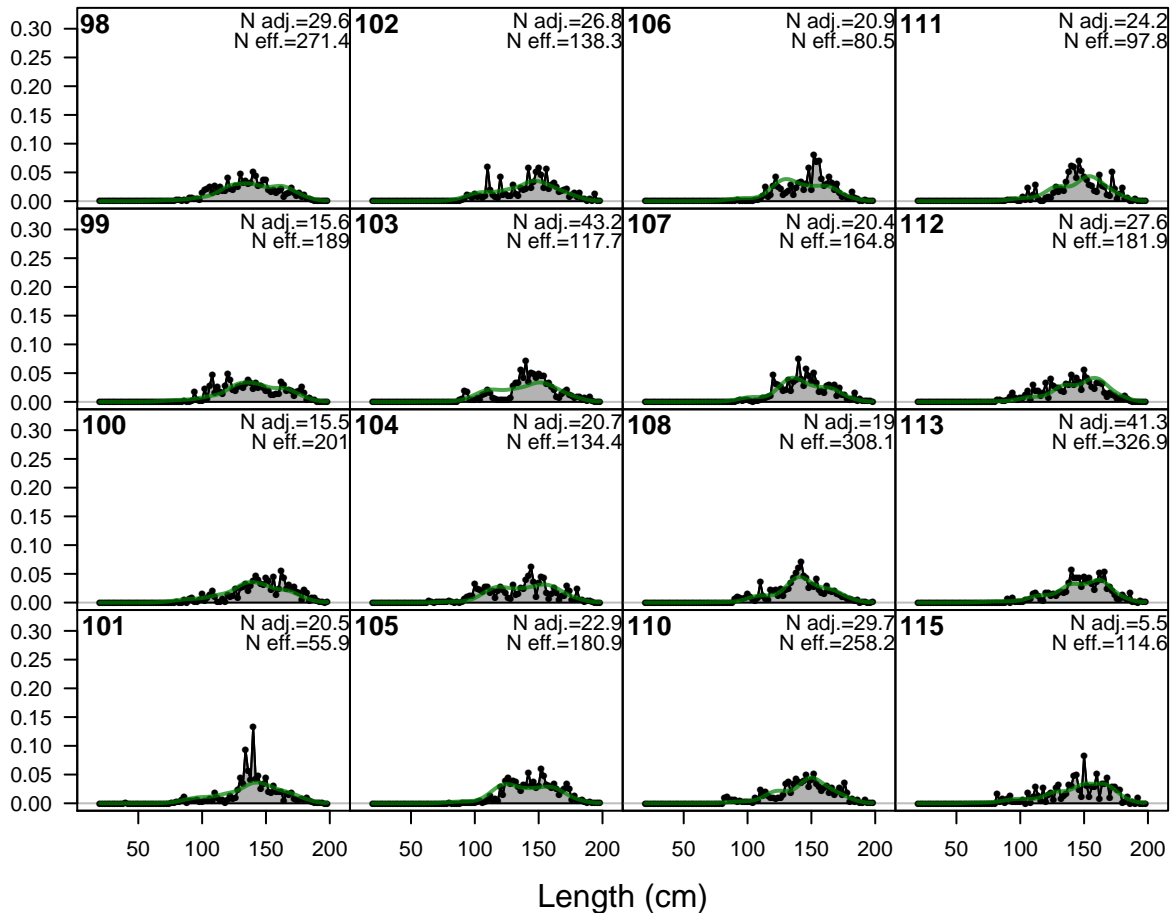
Proportion



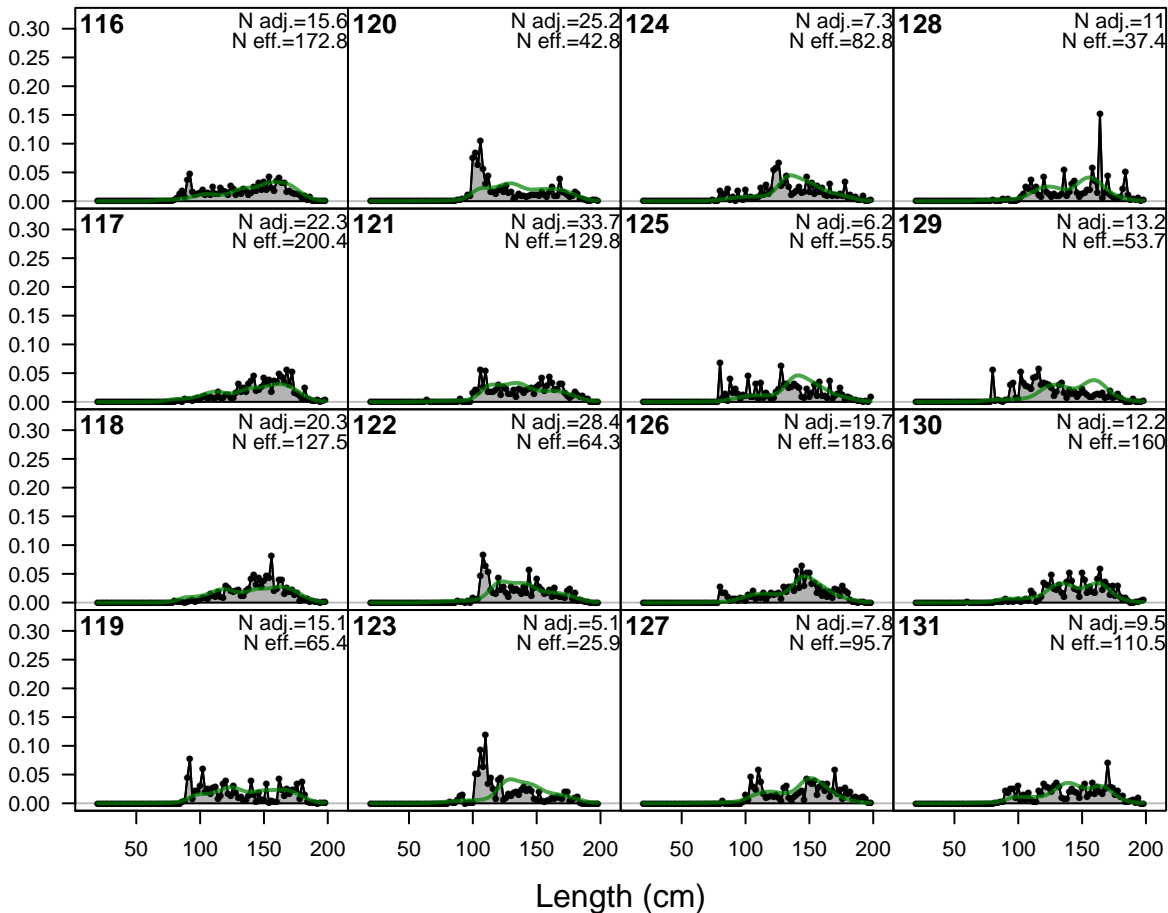
Proportion



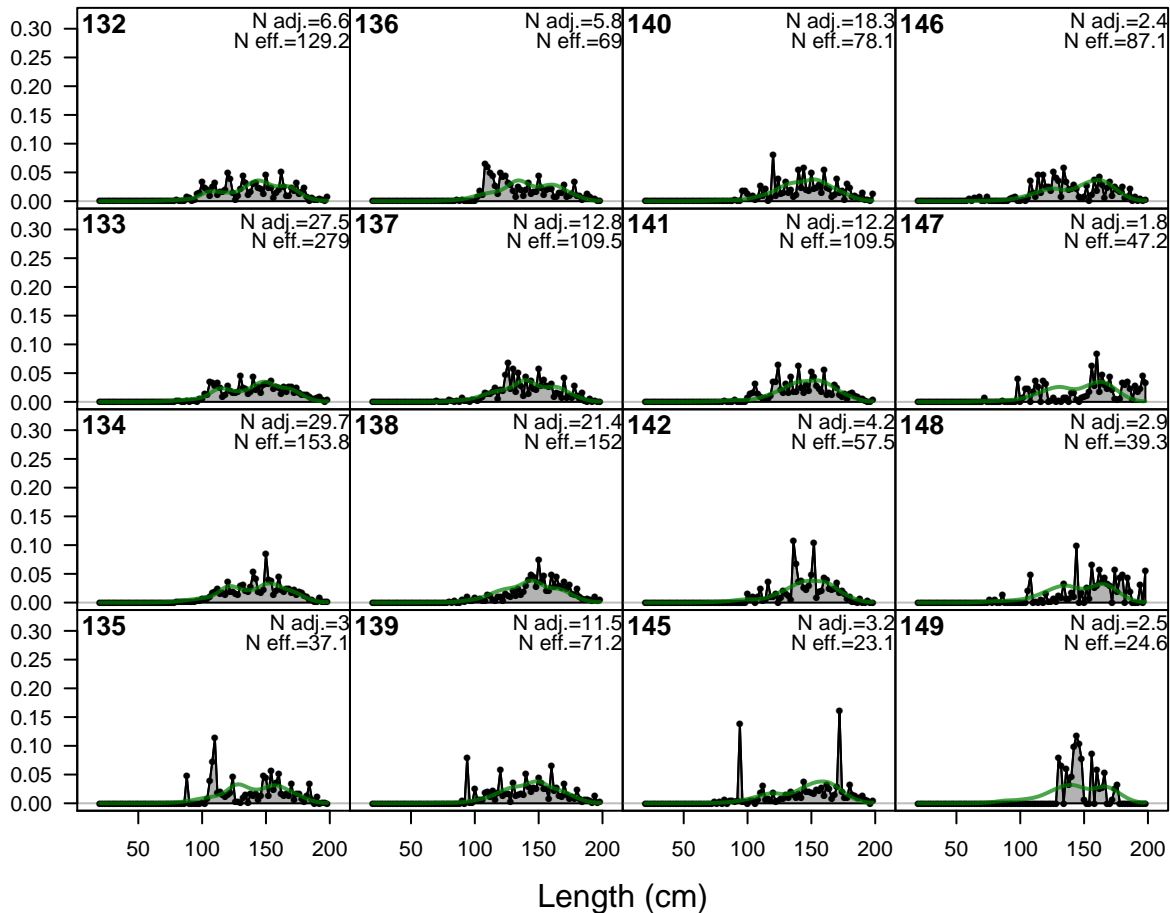
Proportion



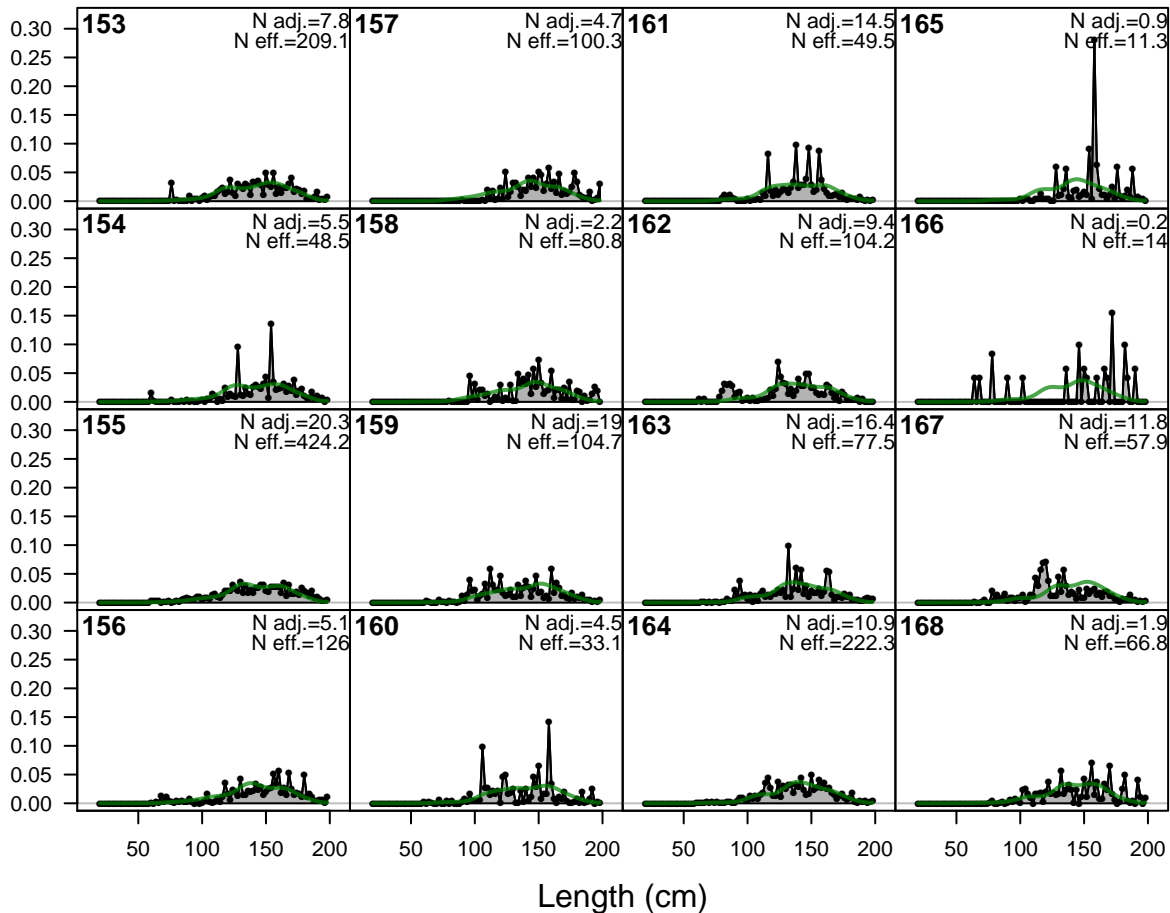
Proportion



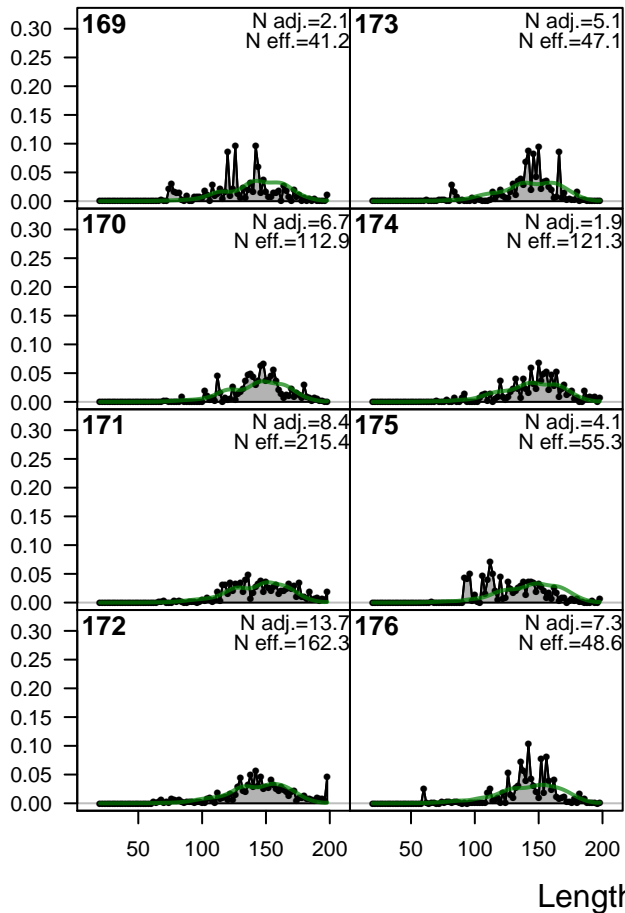
Proportion

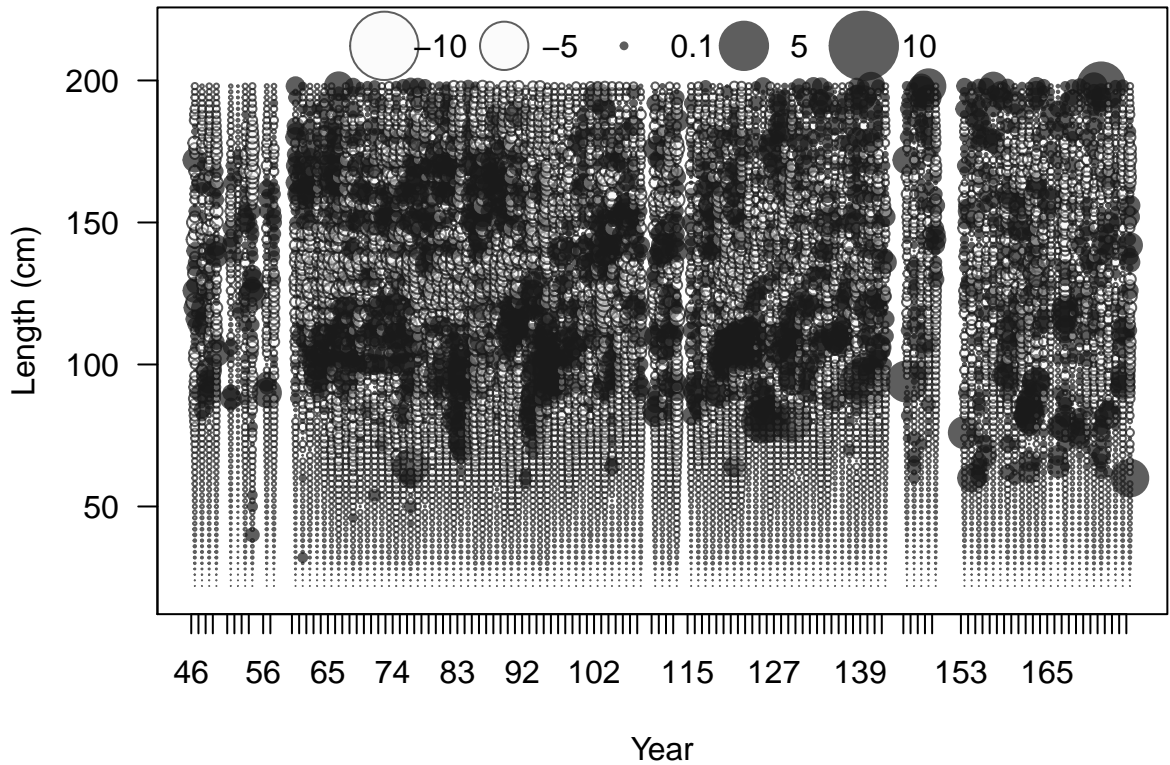


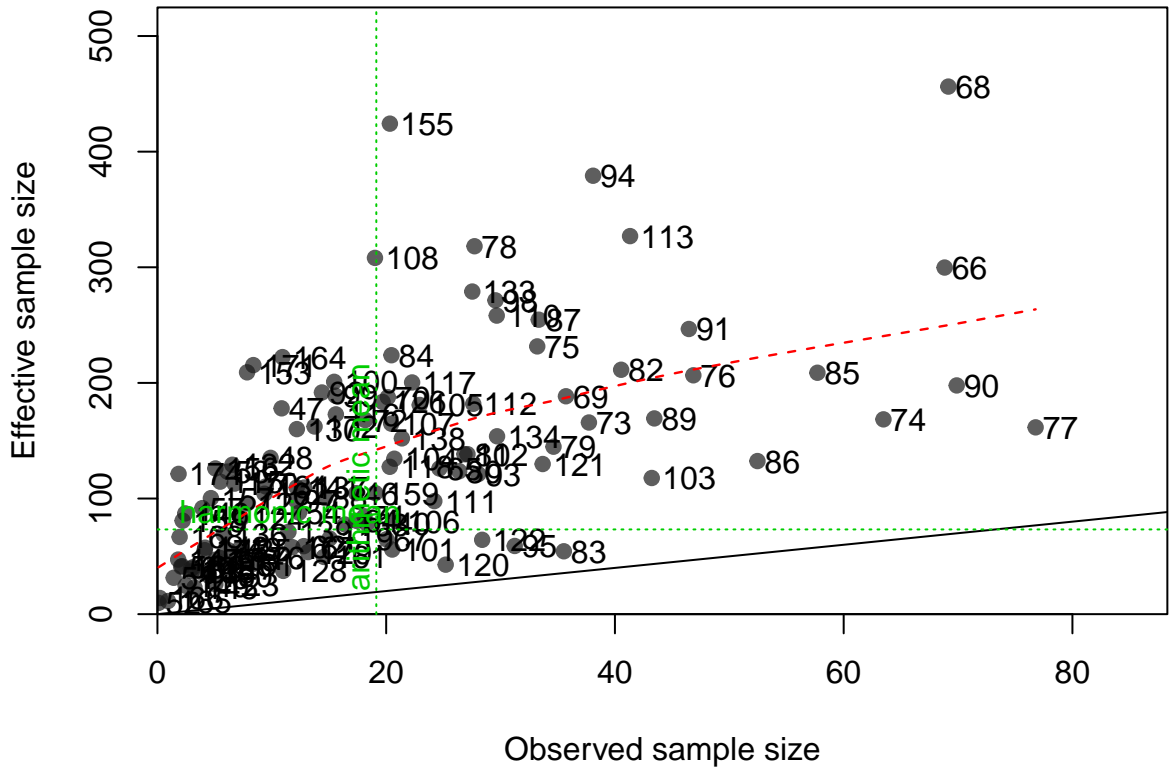
Proportion



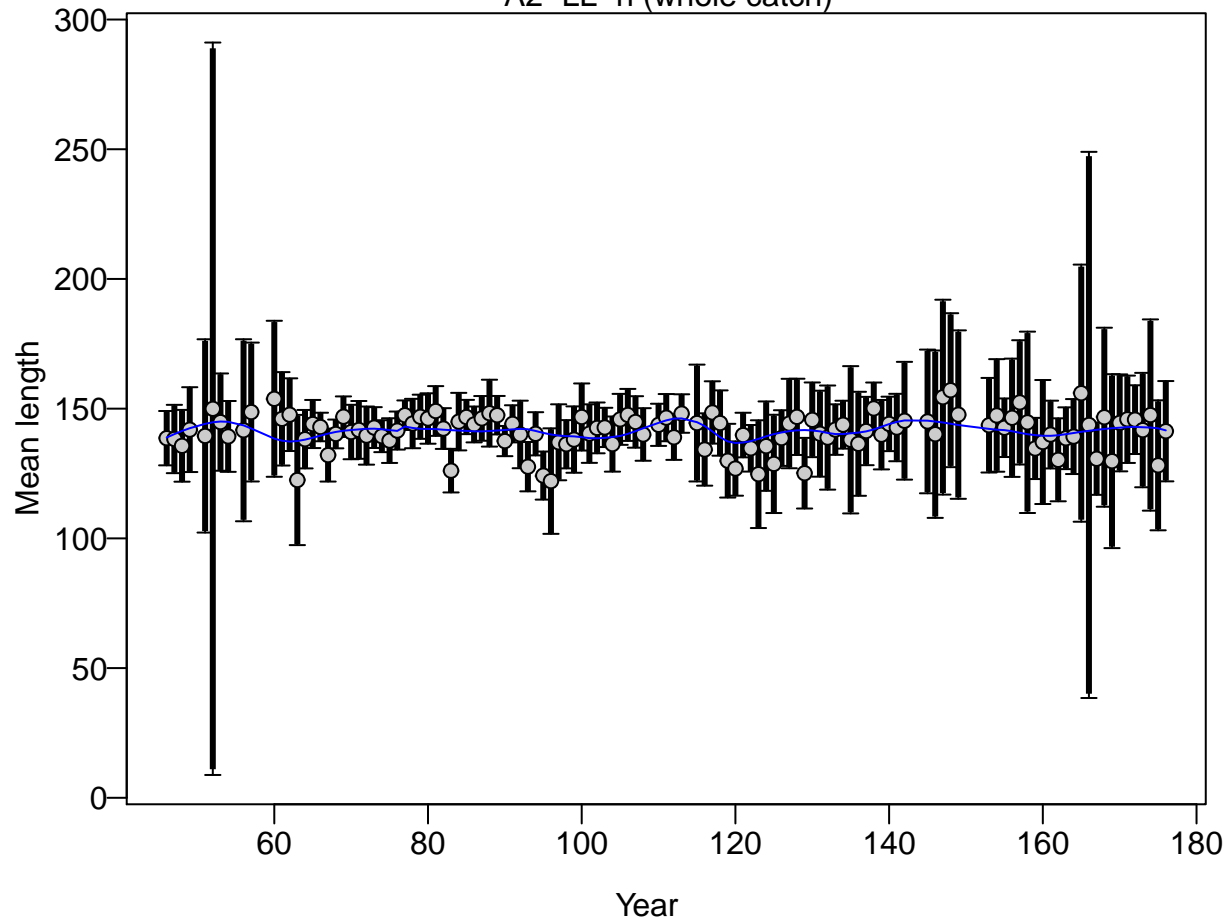
Proportion



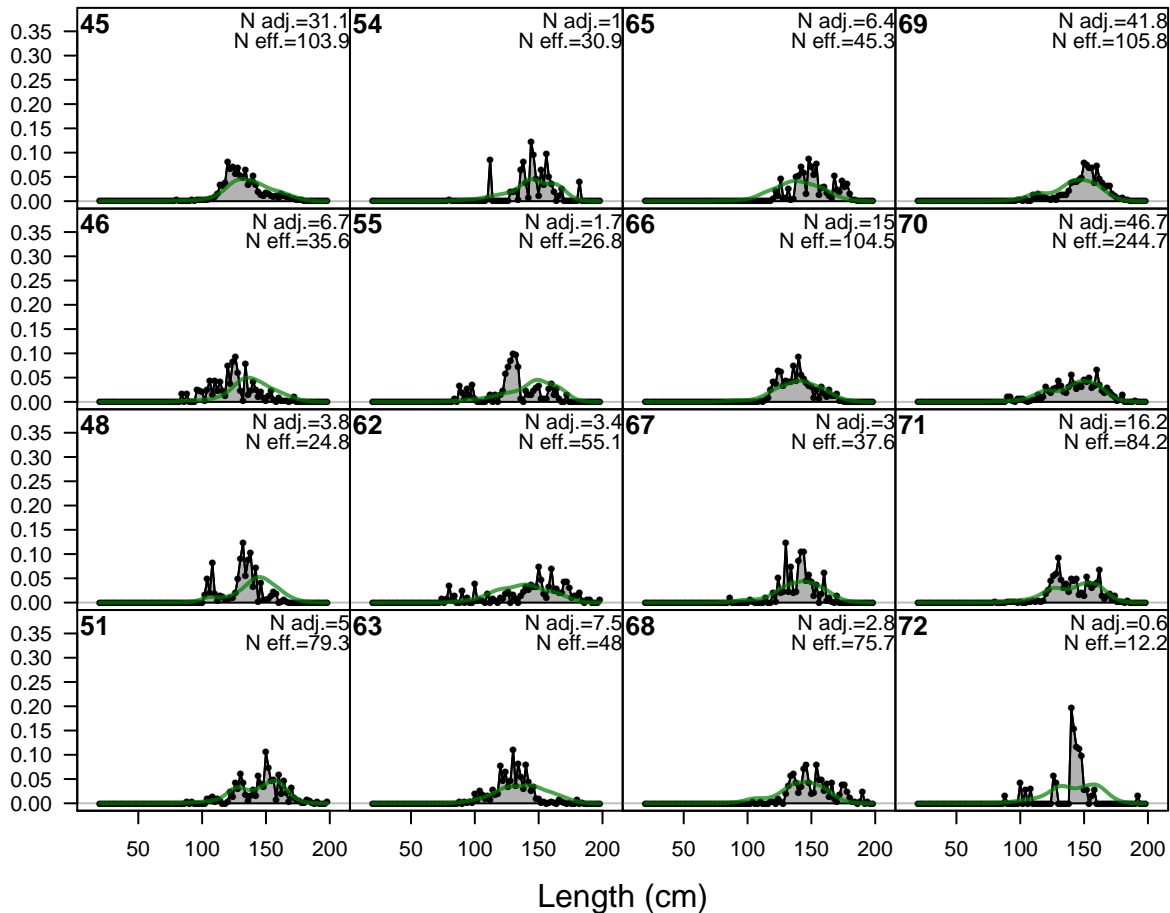




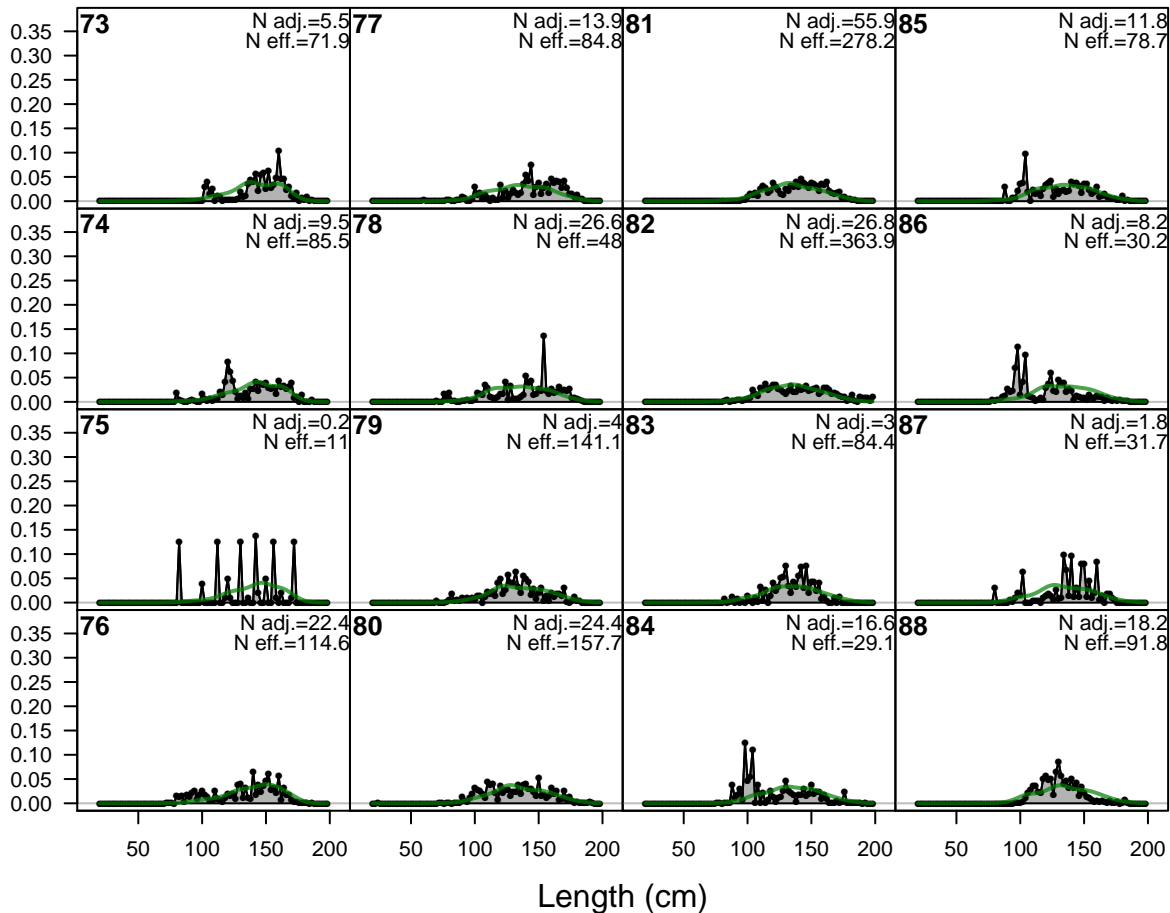
A2-LL-n (whole catch)



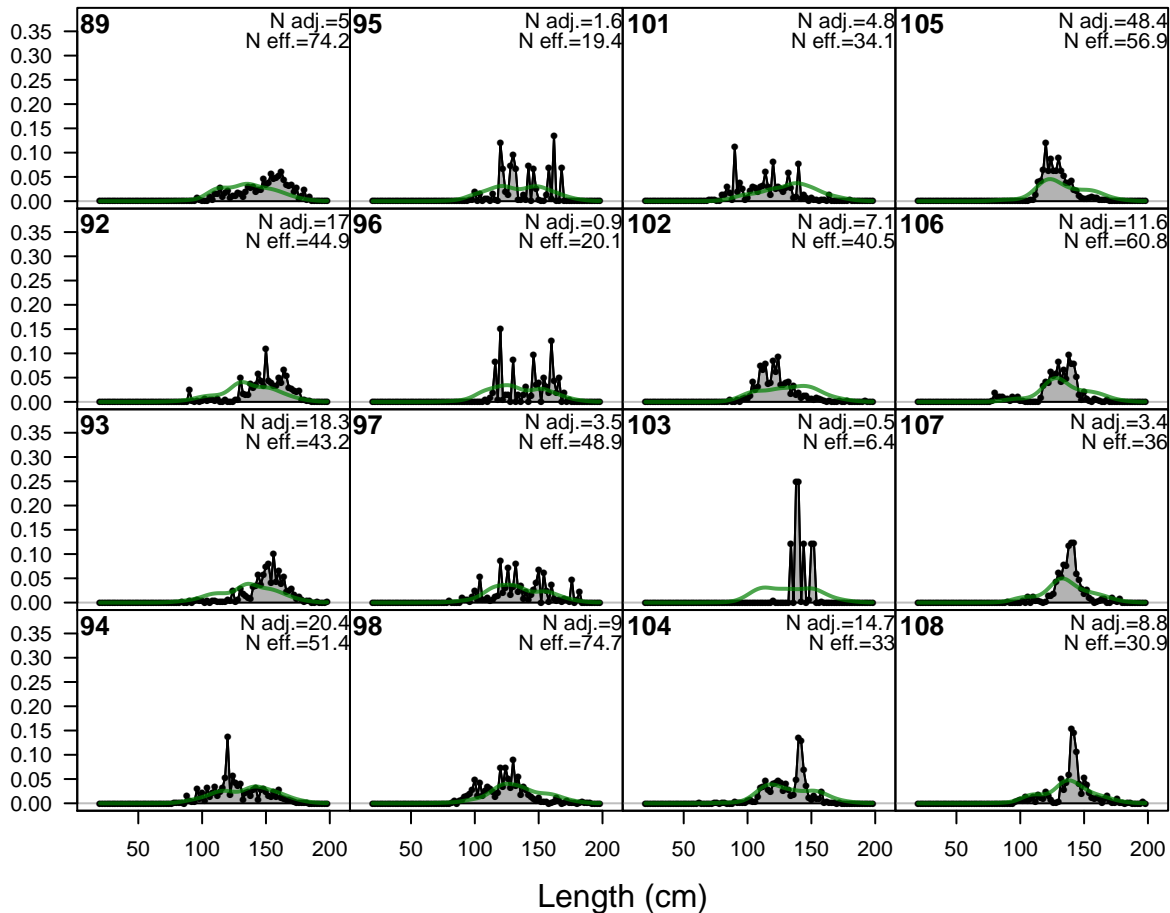
Proportion



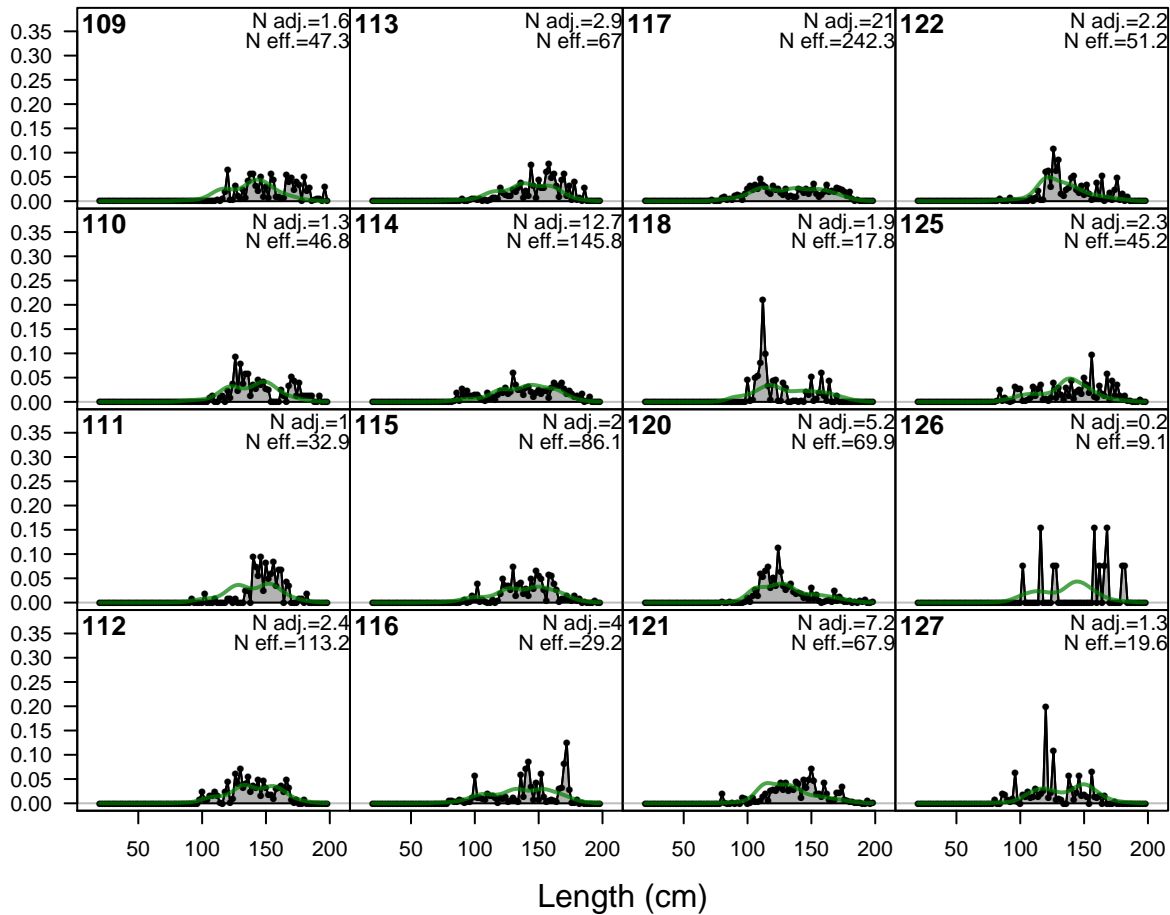
Proportion



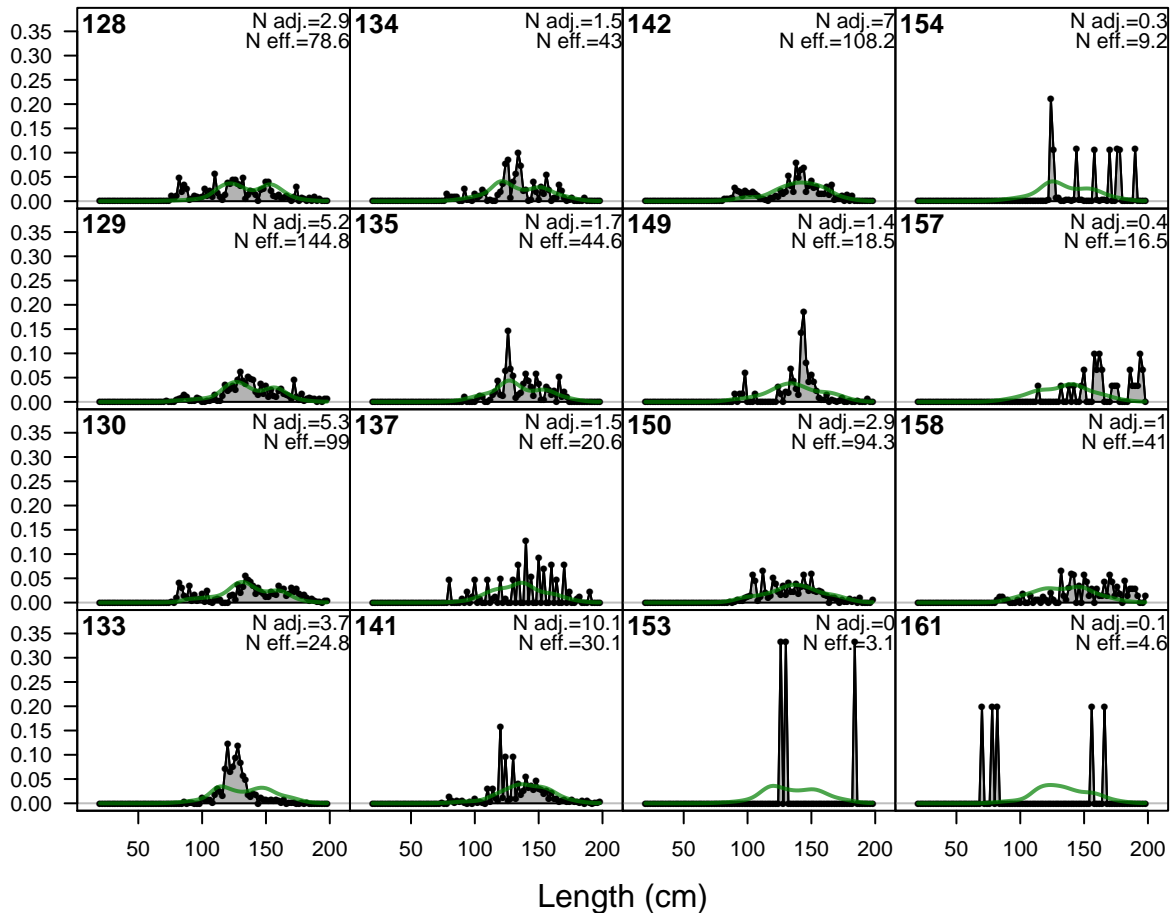
Proportion



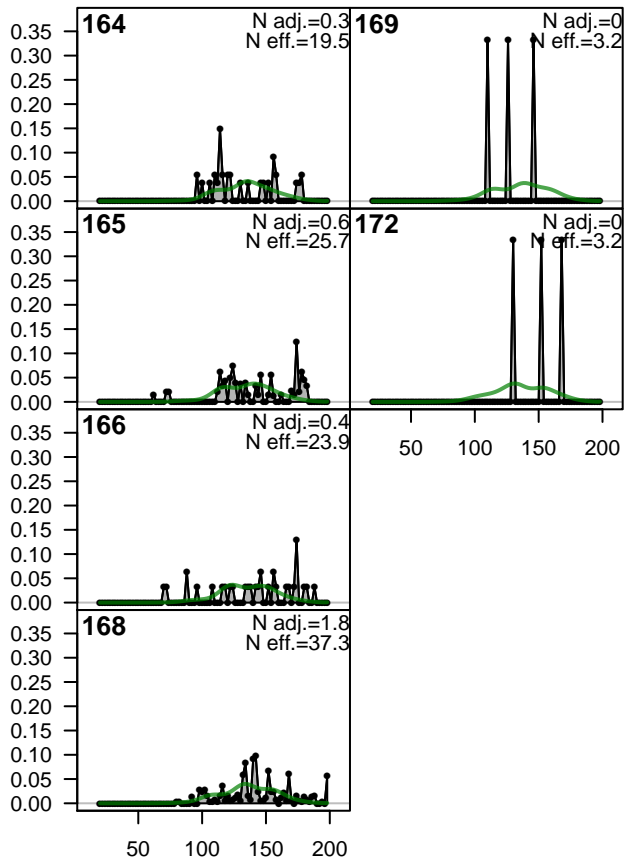
Proportion



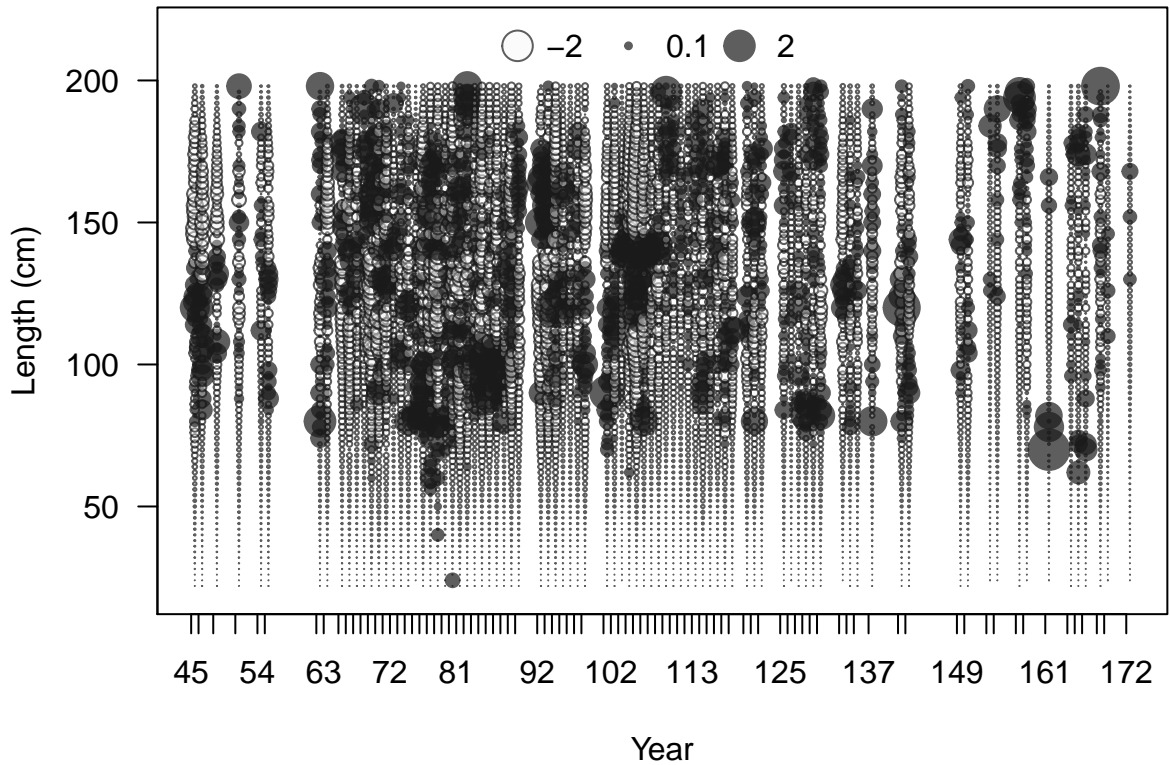
Proportion

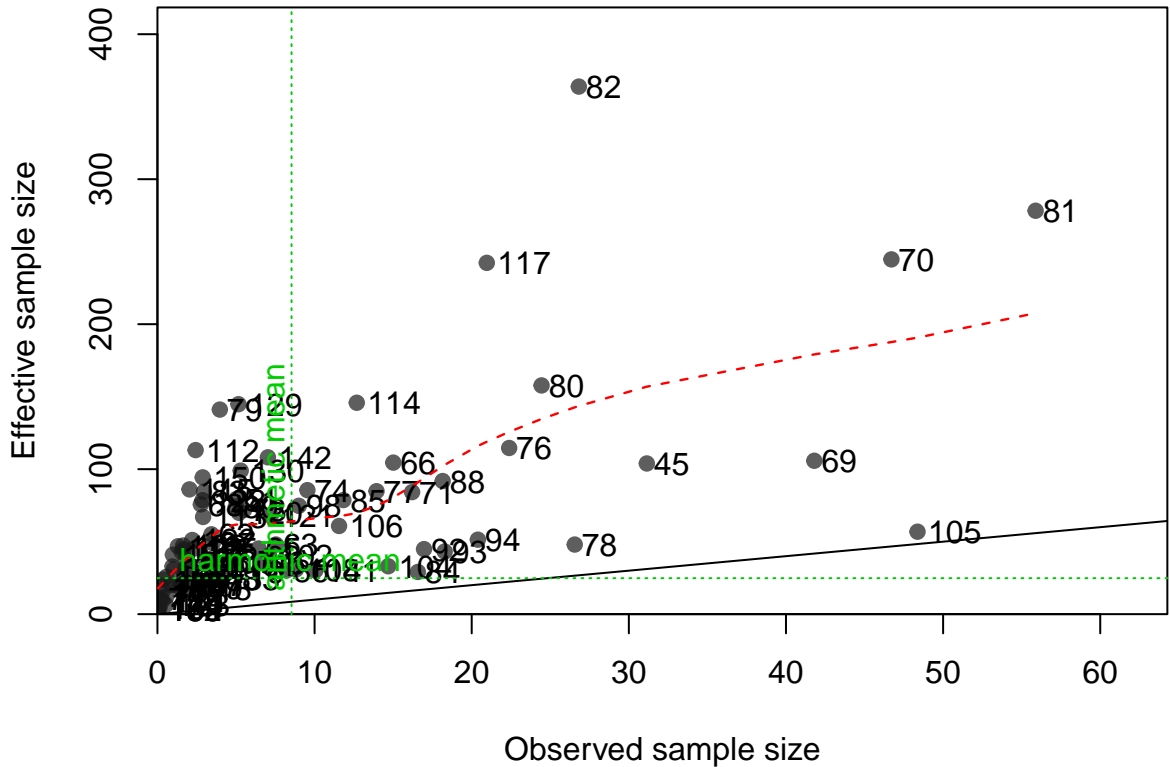


Proportion

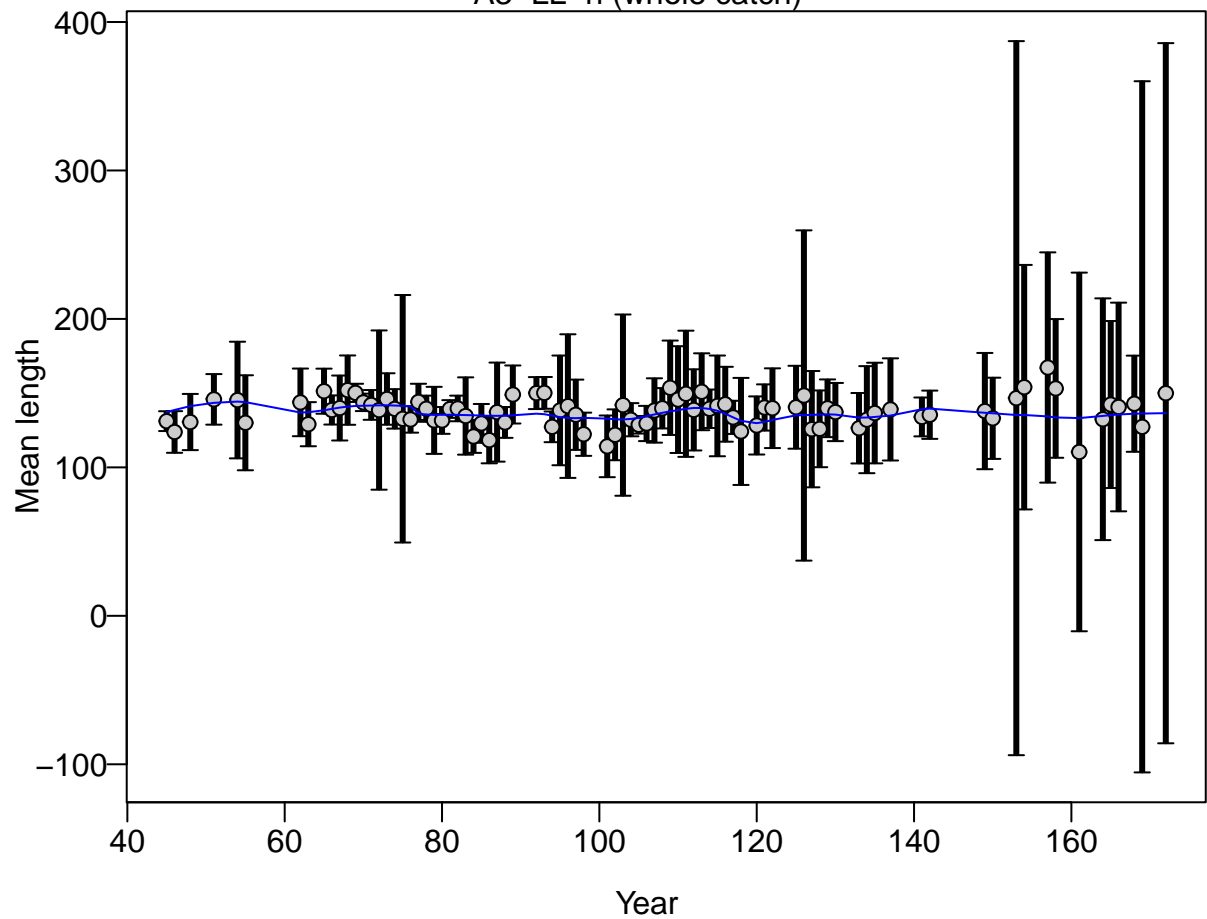


Length (cm)

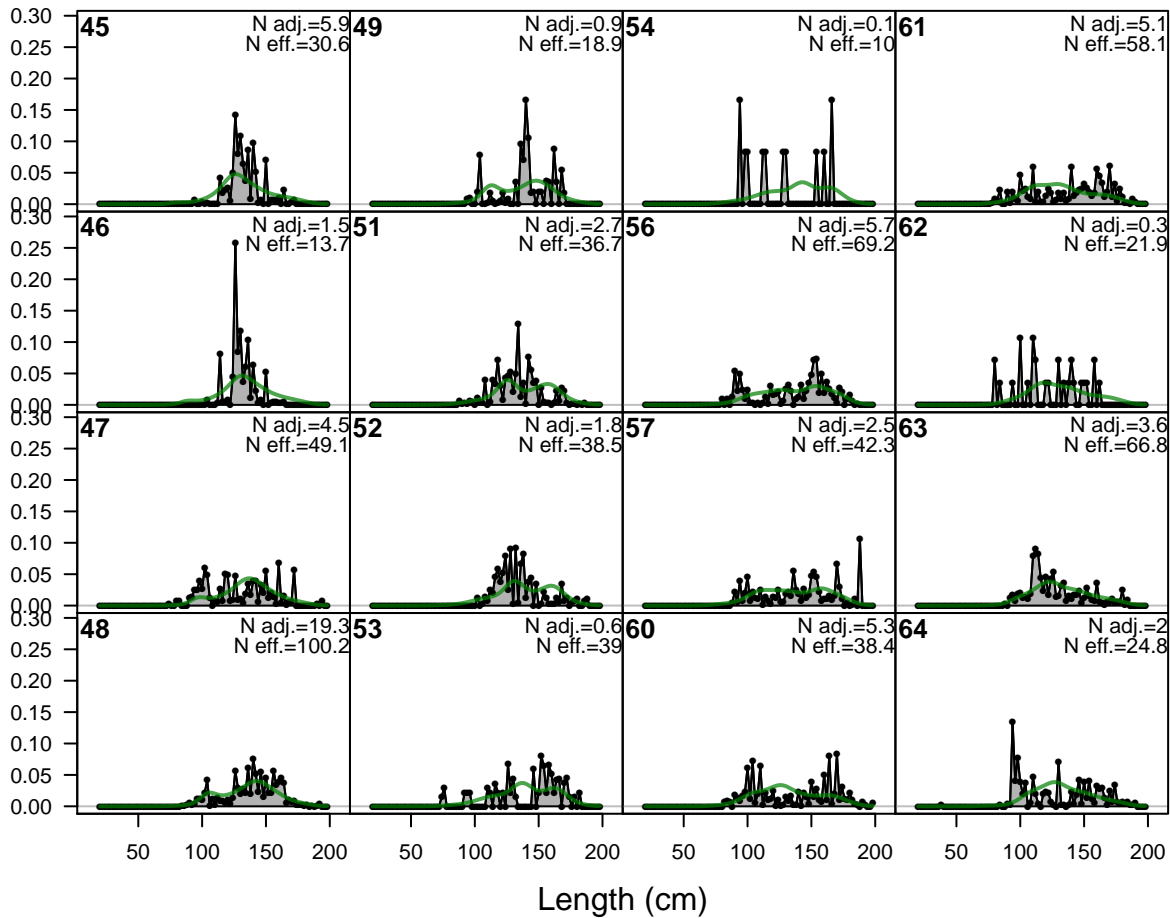




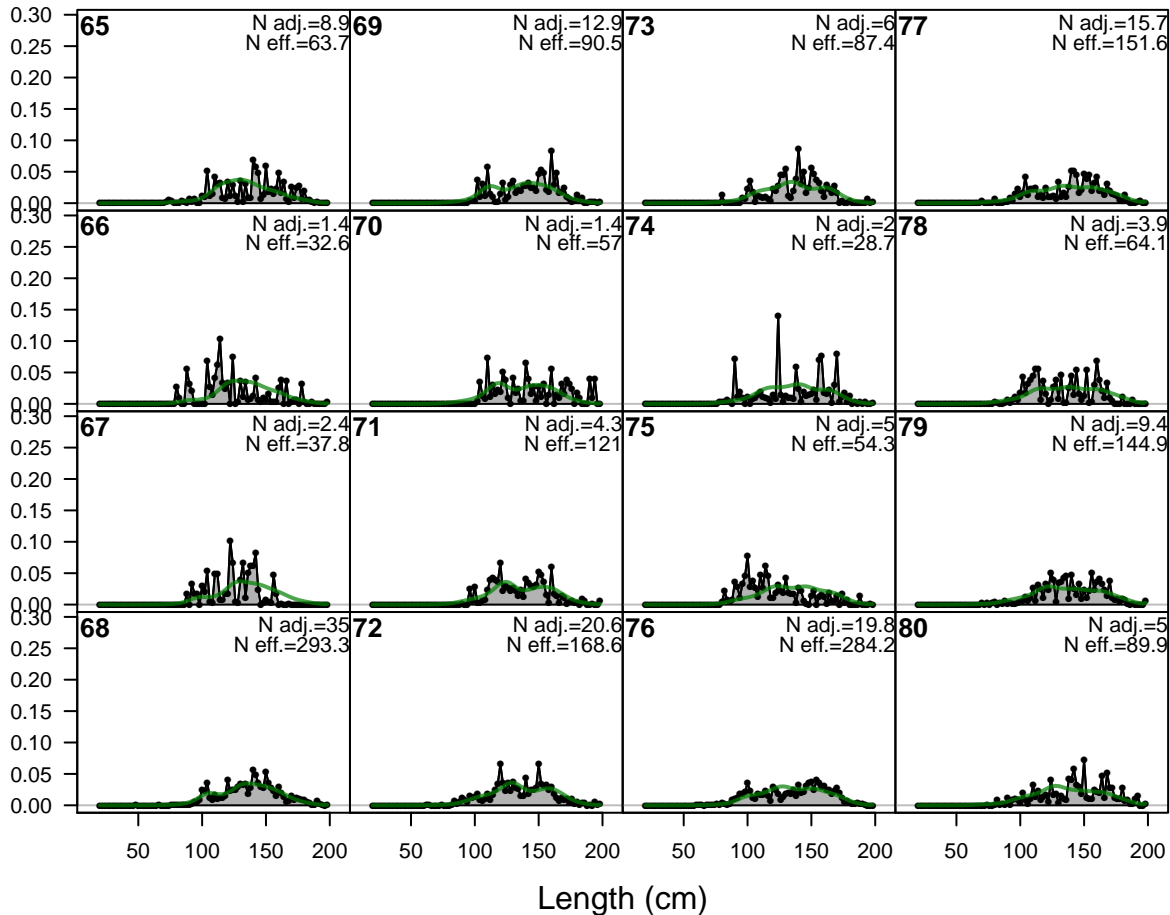
A3-LL-n (whole catch)



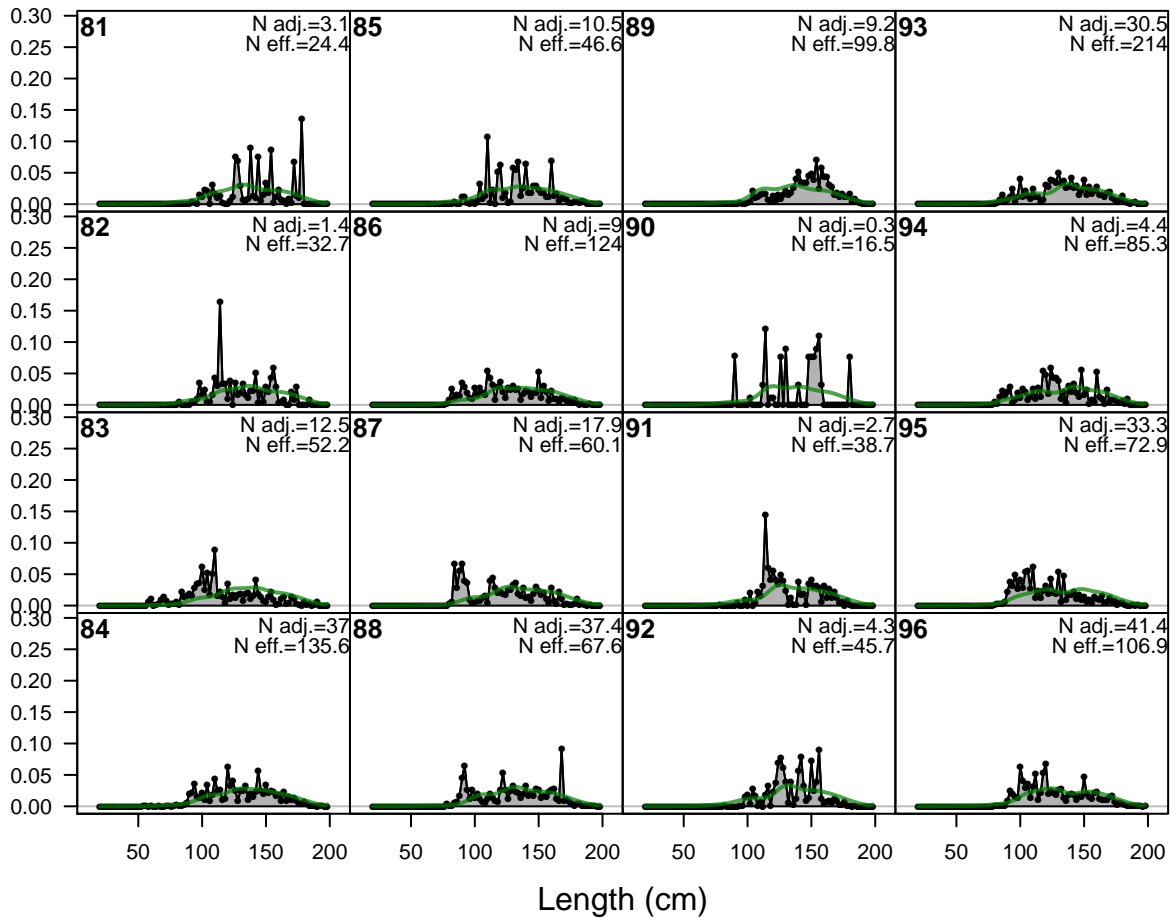
Proportion



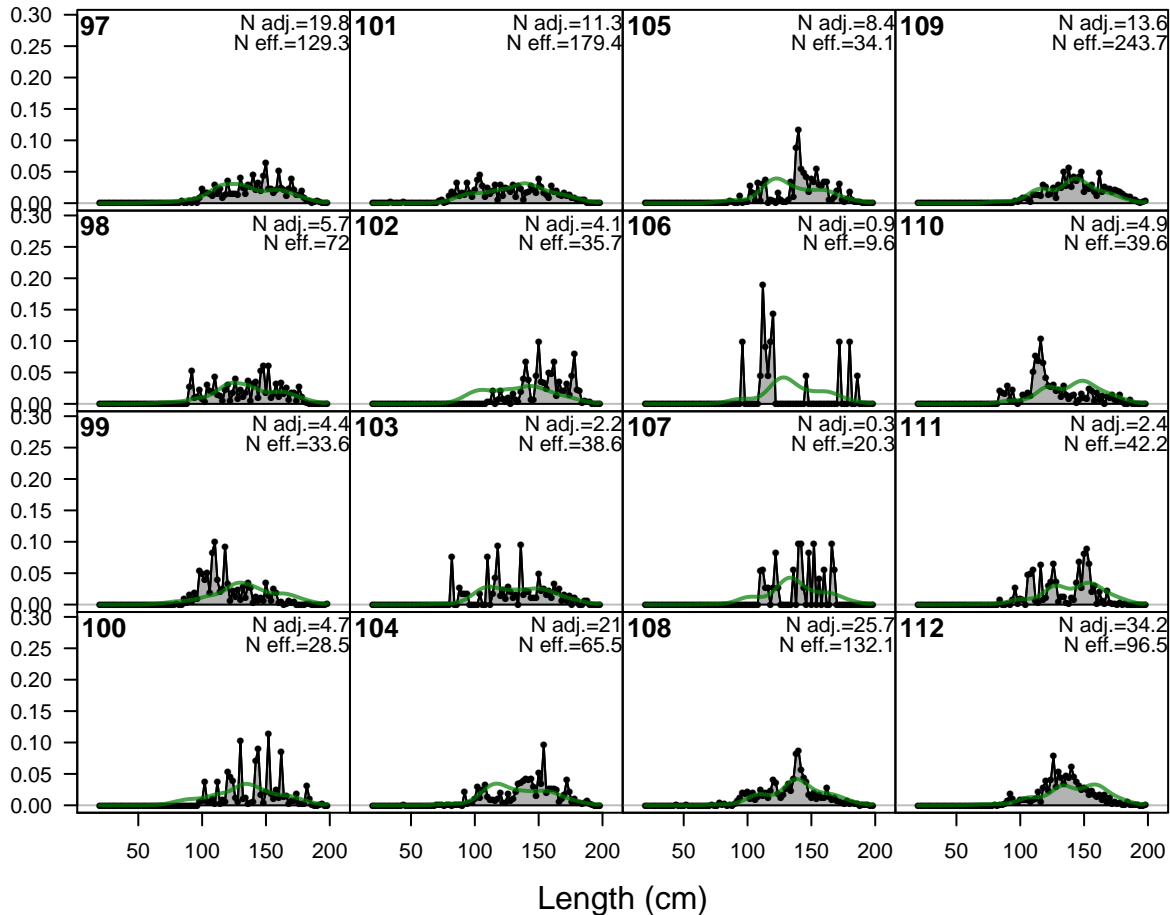
Proportion



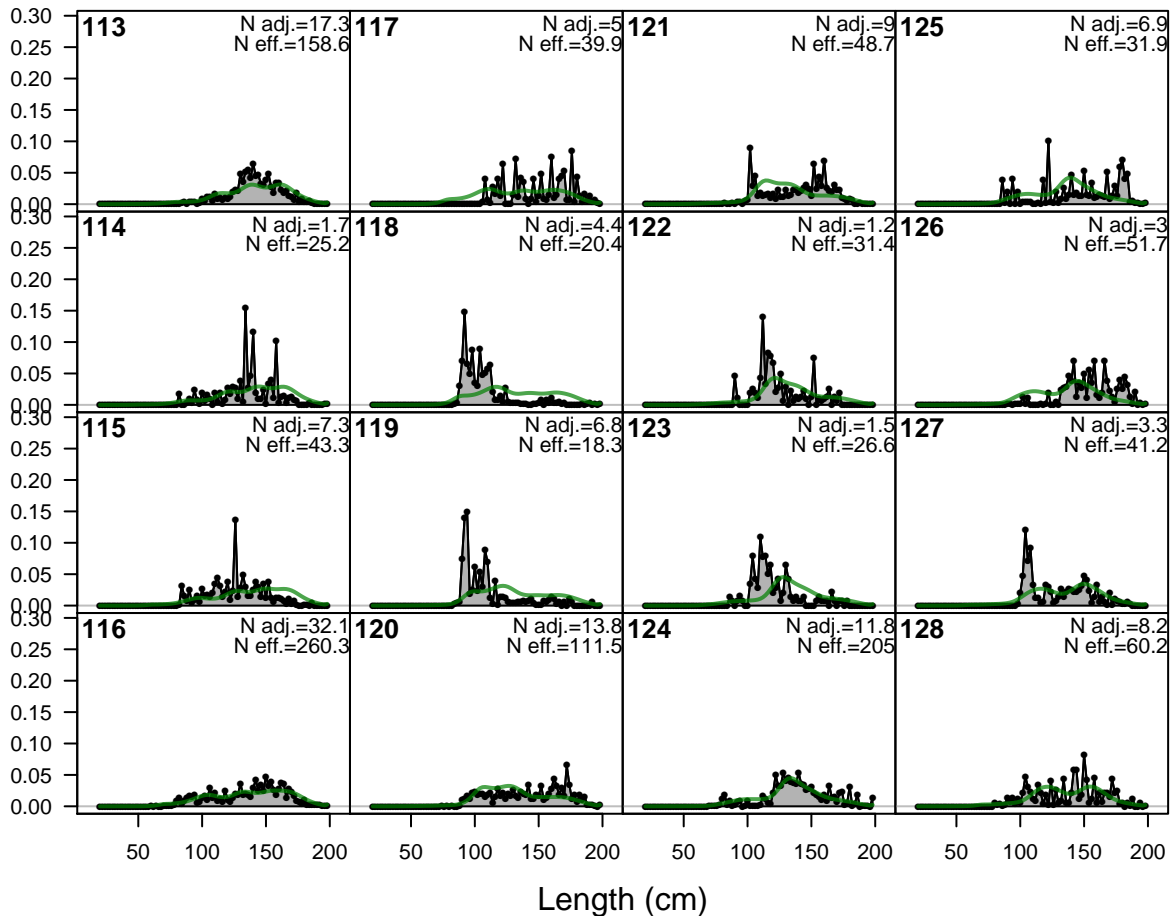
Proportion



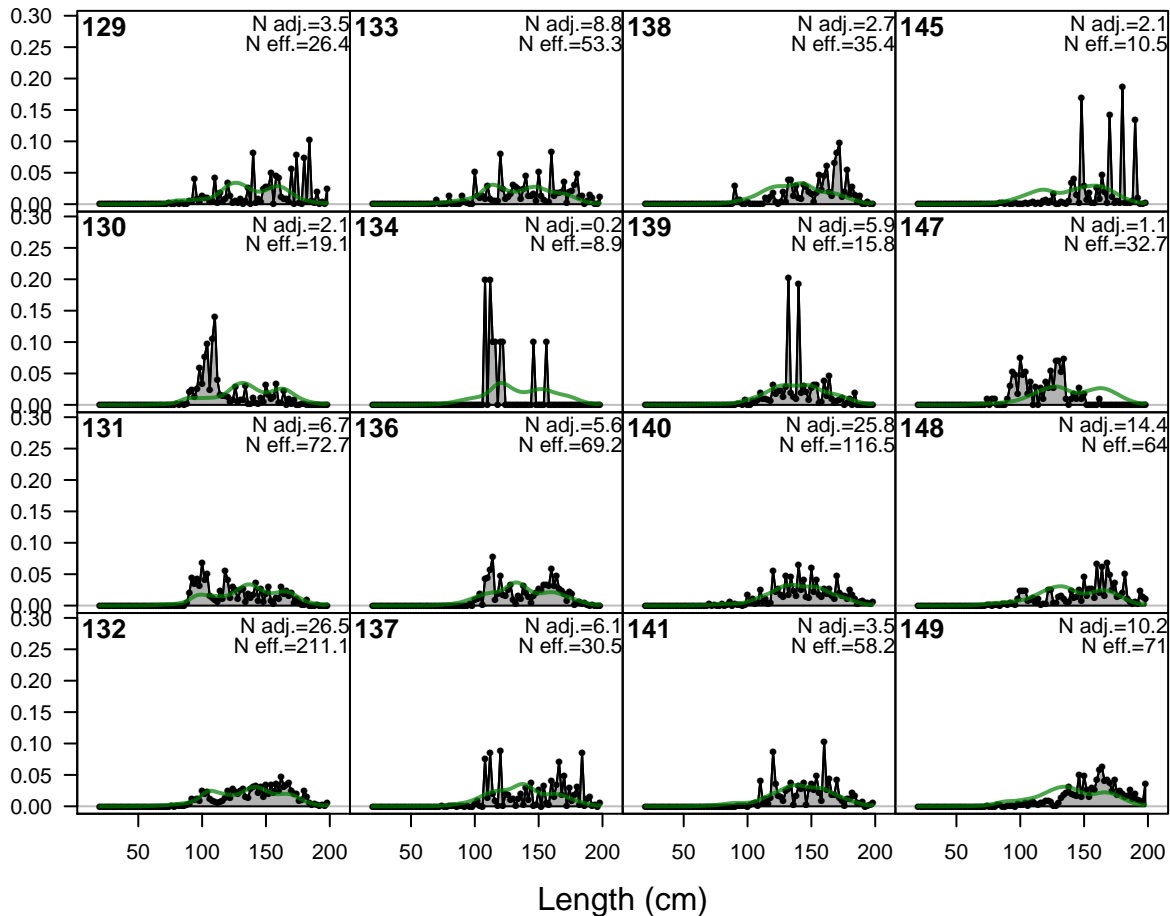
Proportion



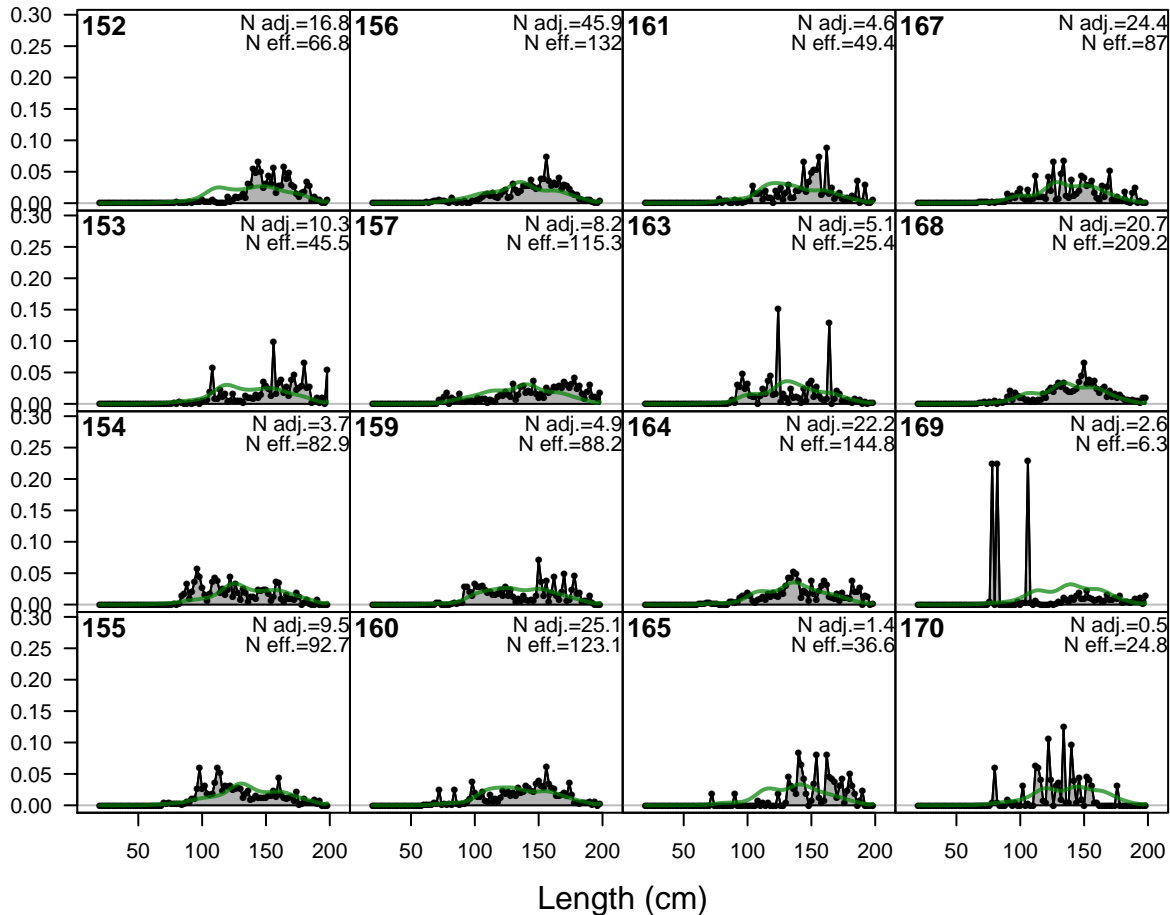
Proportion



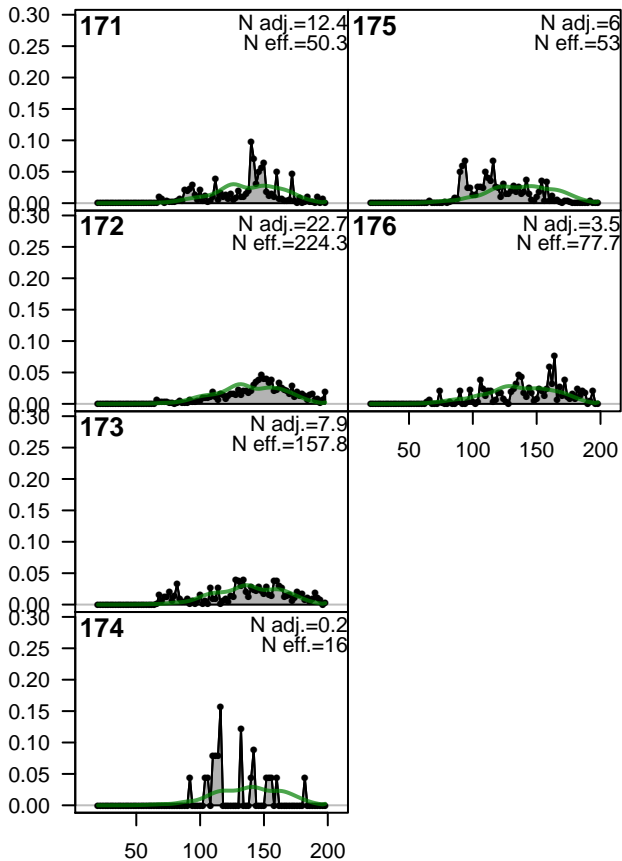
Proportion



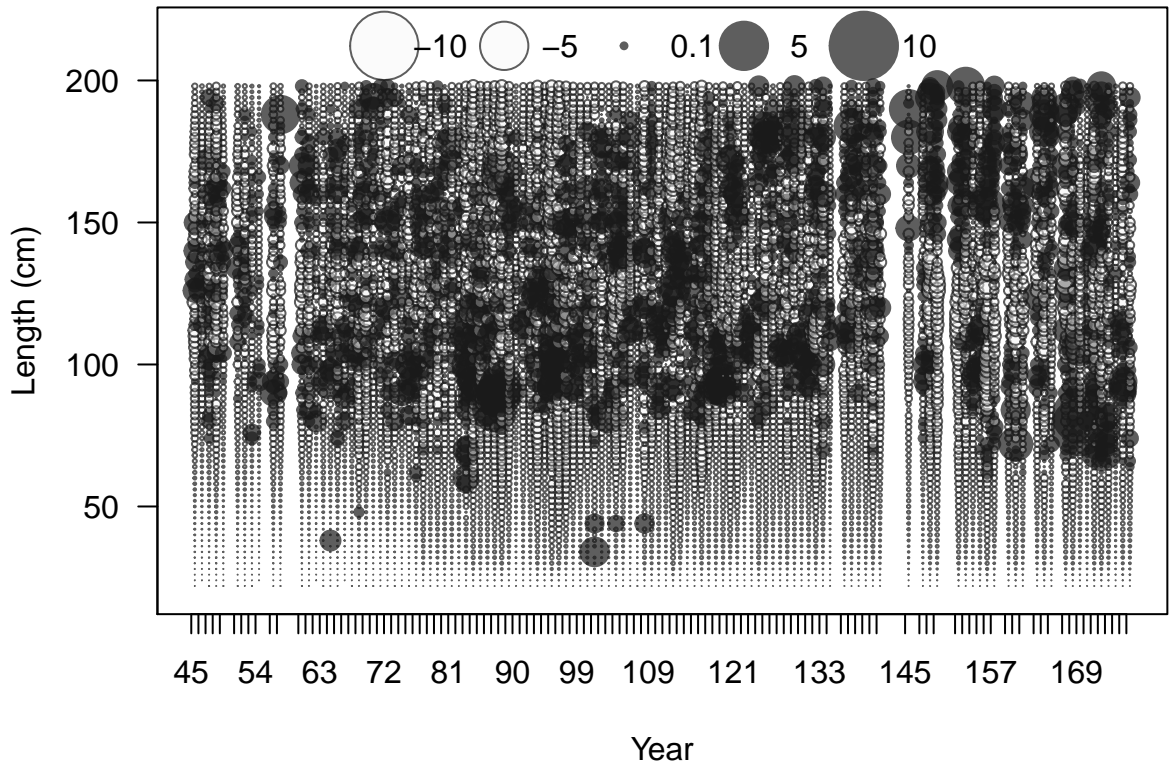
Proportion

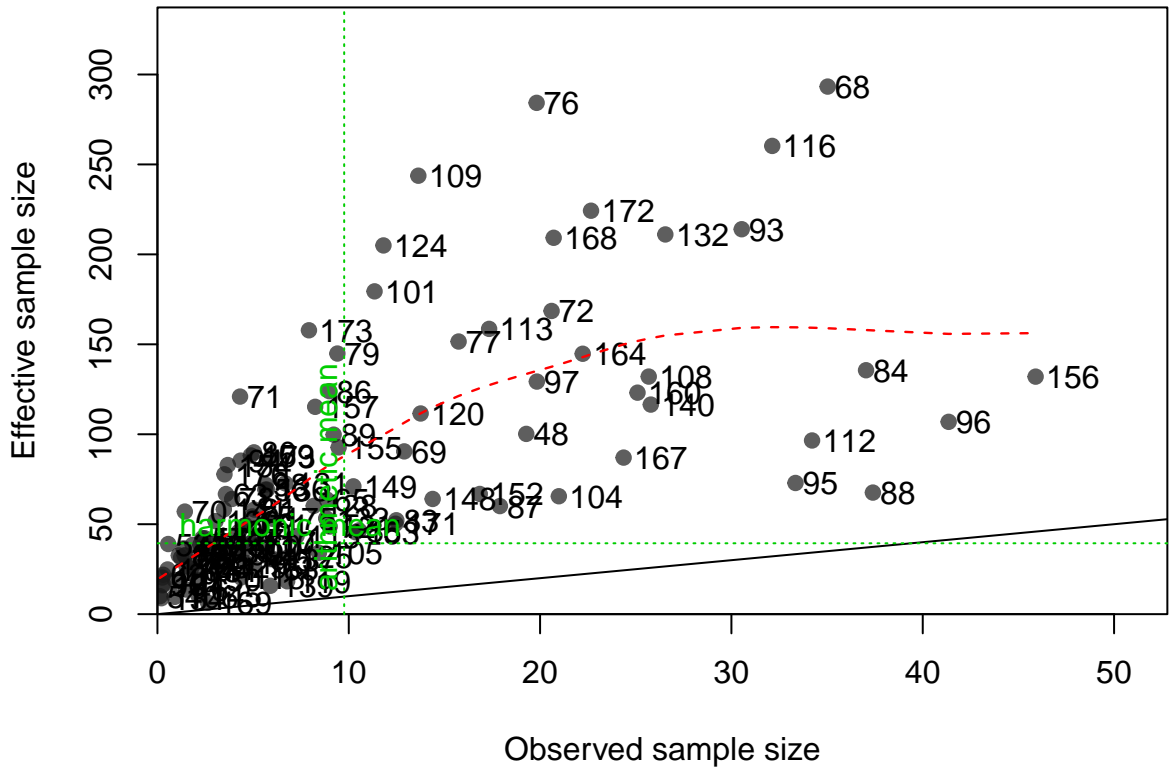


Proportion

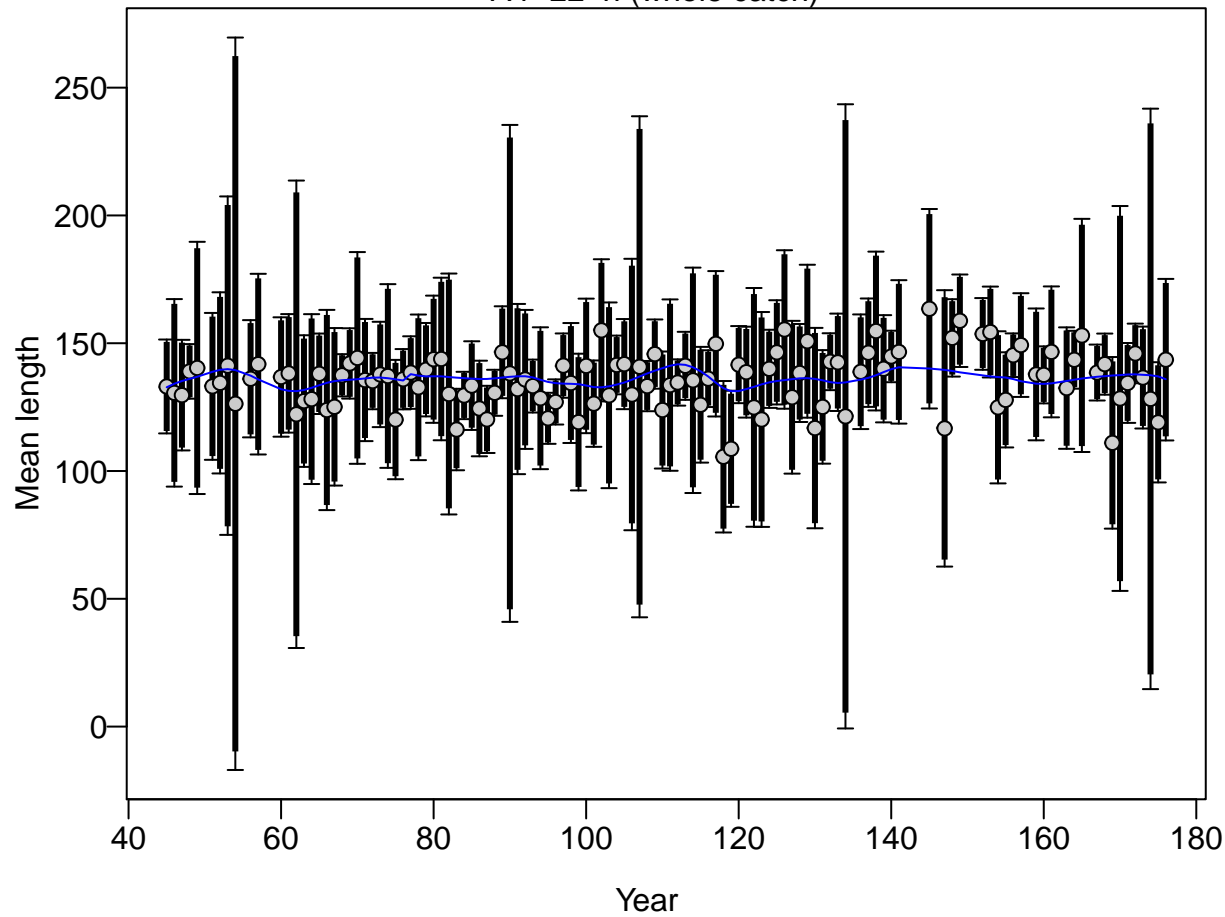


Length (cm)

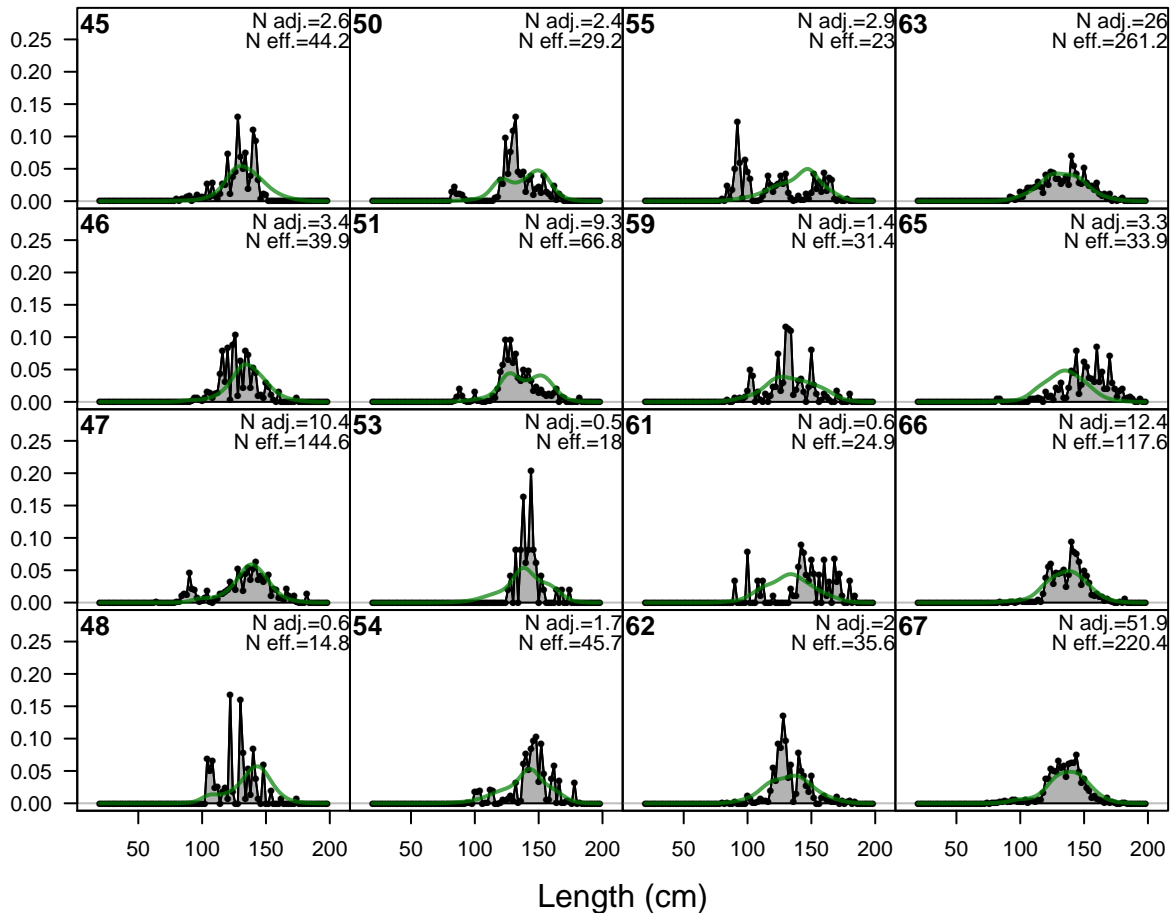




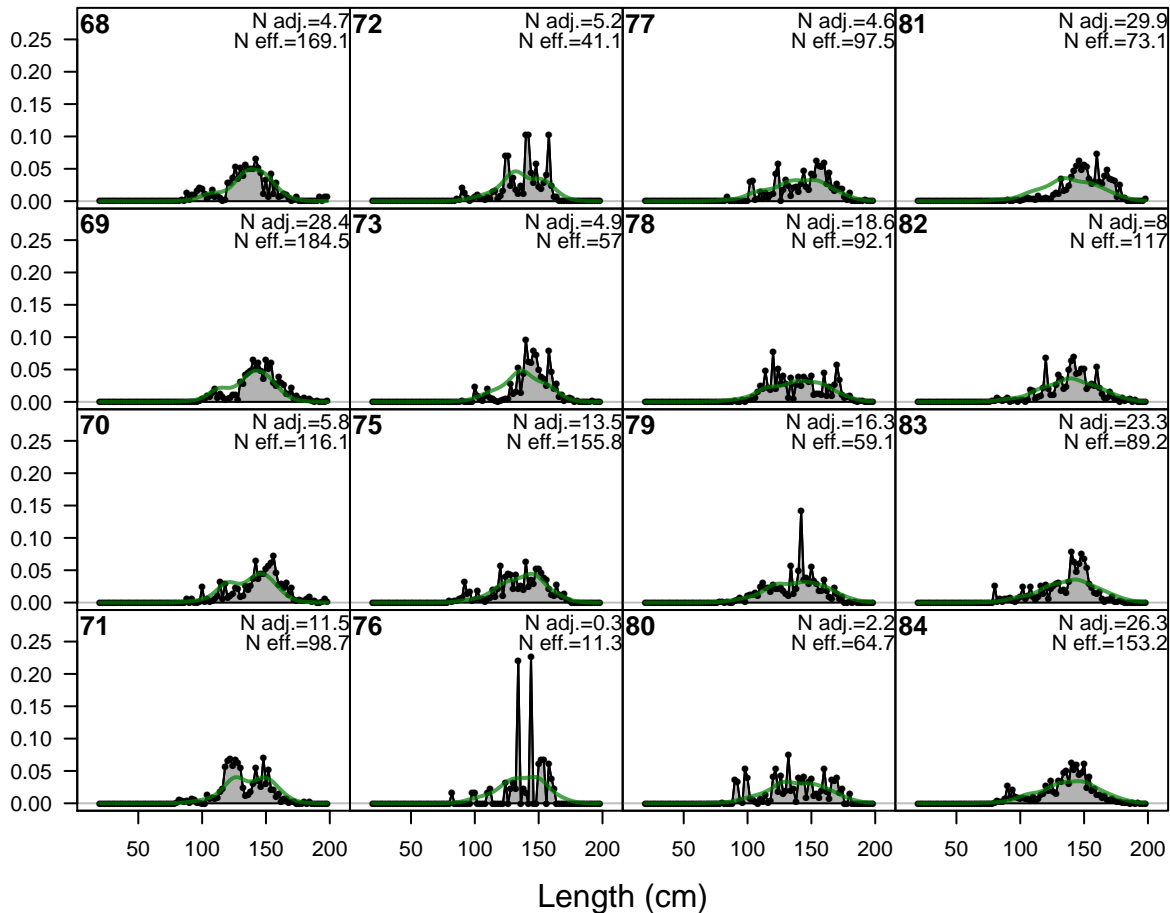
A4-LL-n (whole catch)



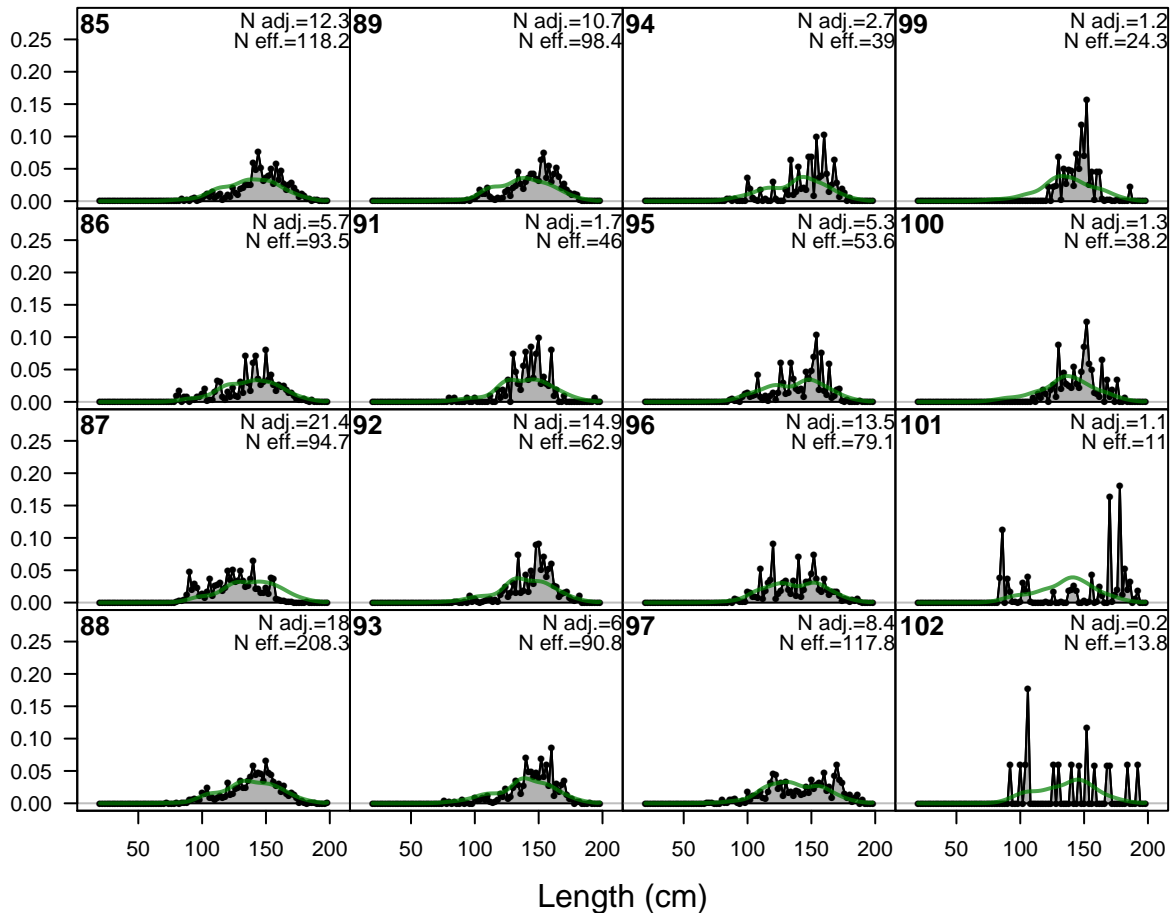
Proportion



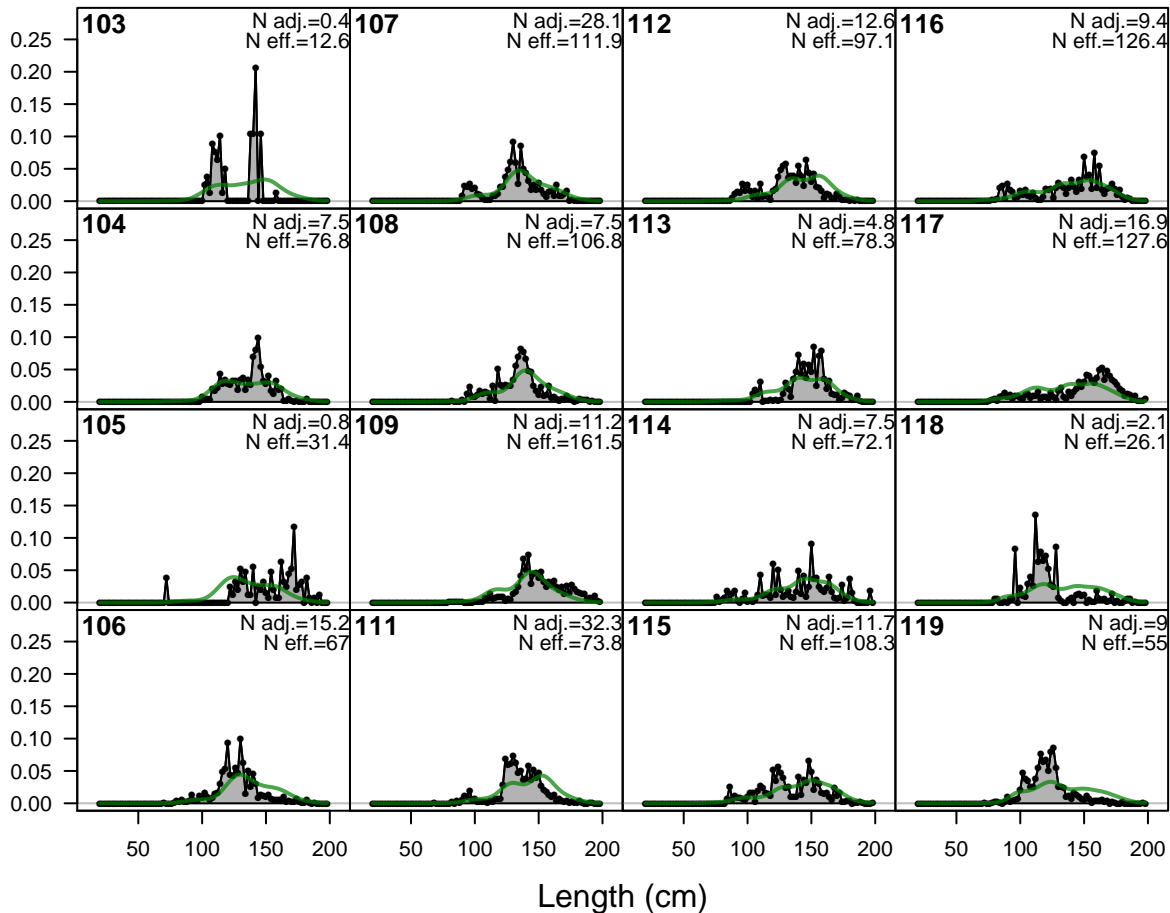
Proportion



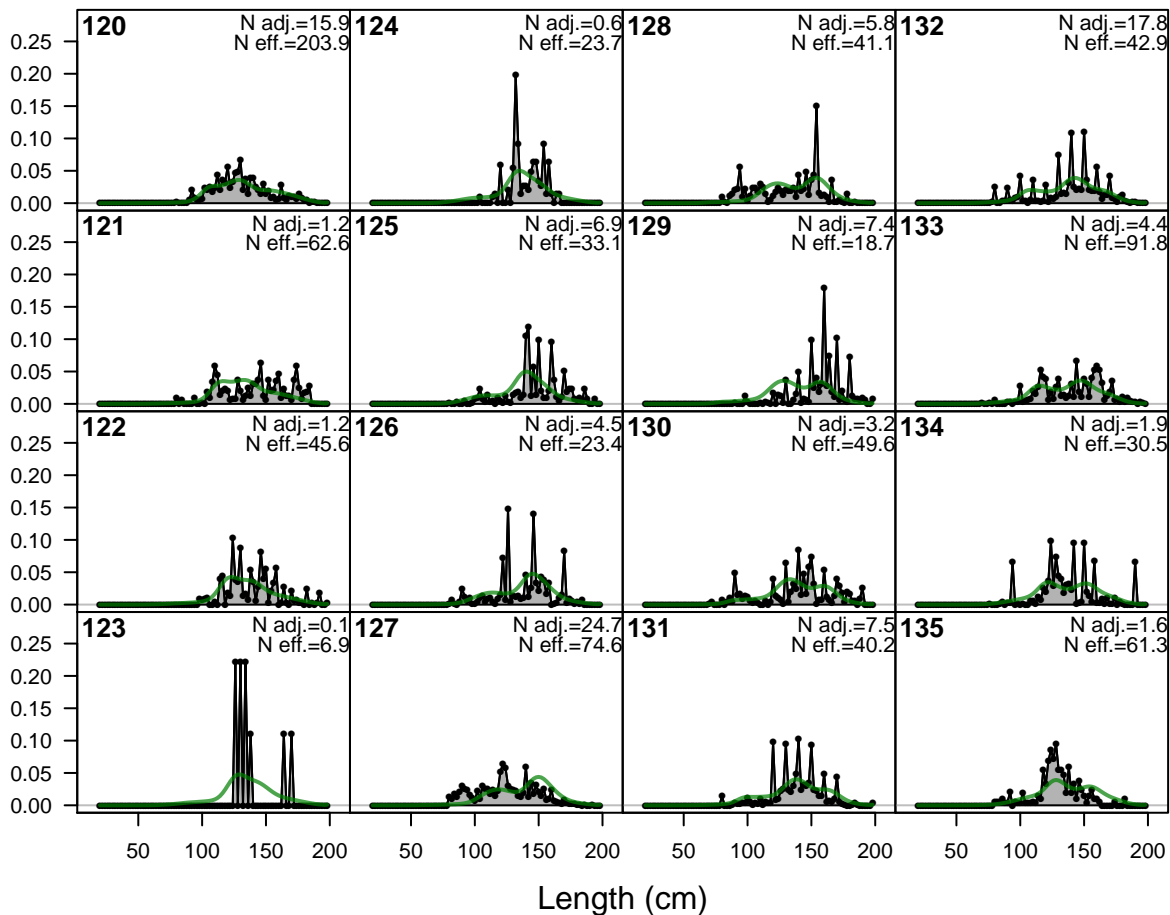
Proportion



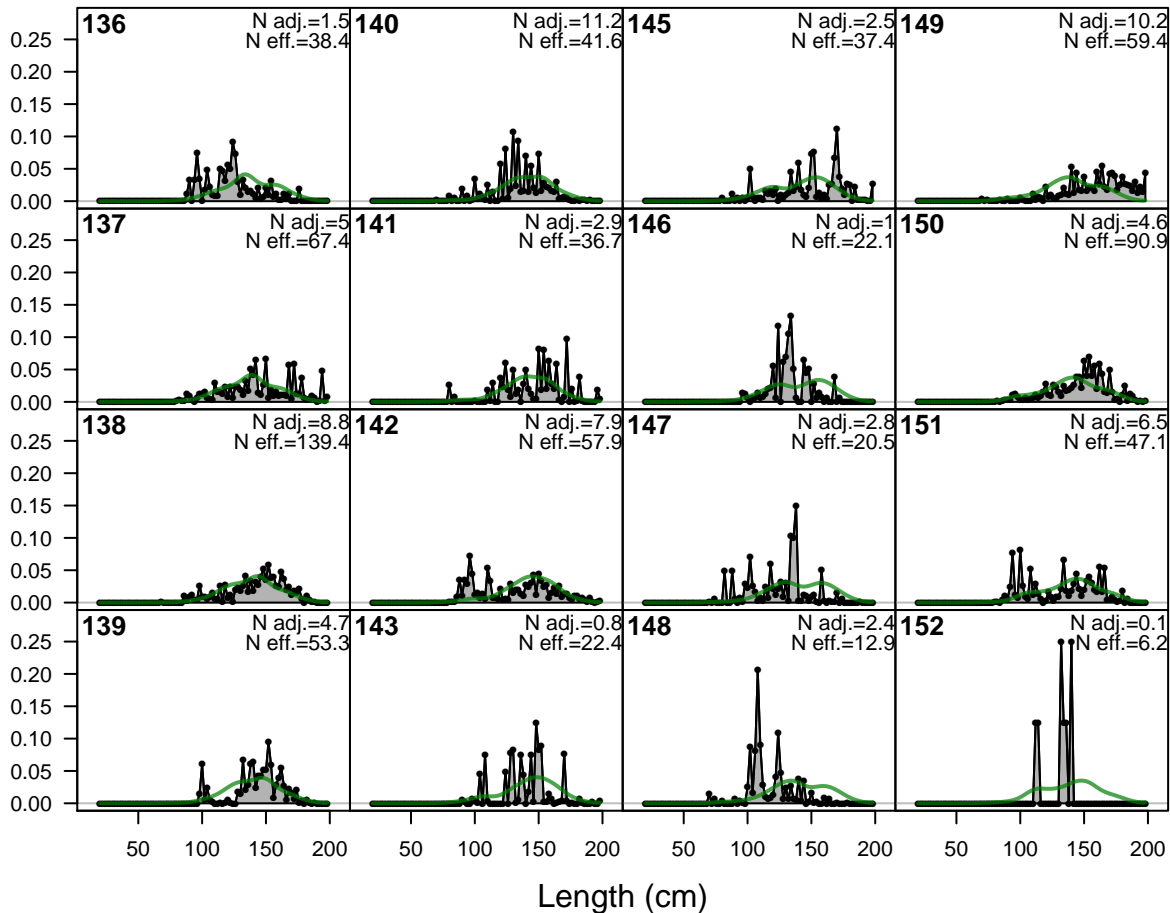
Proportion



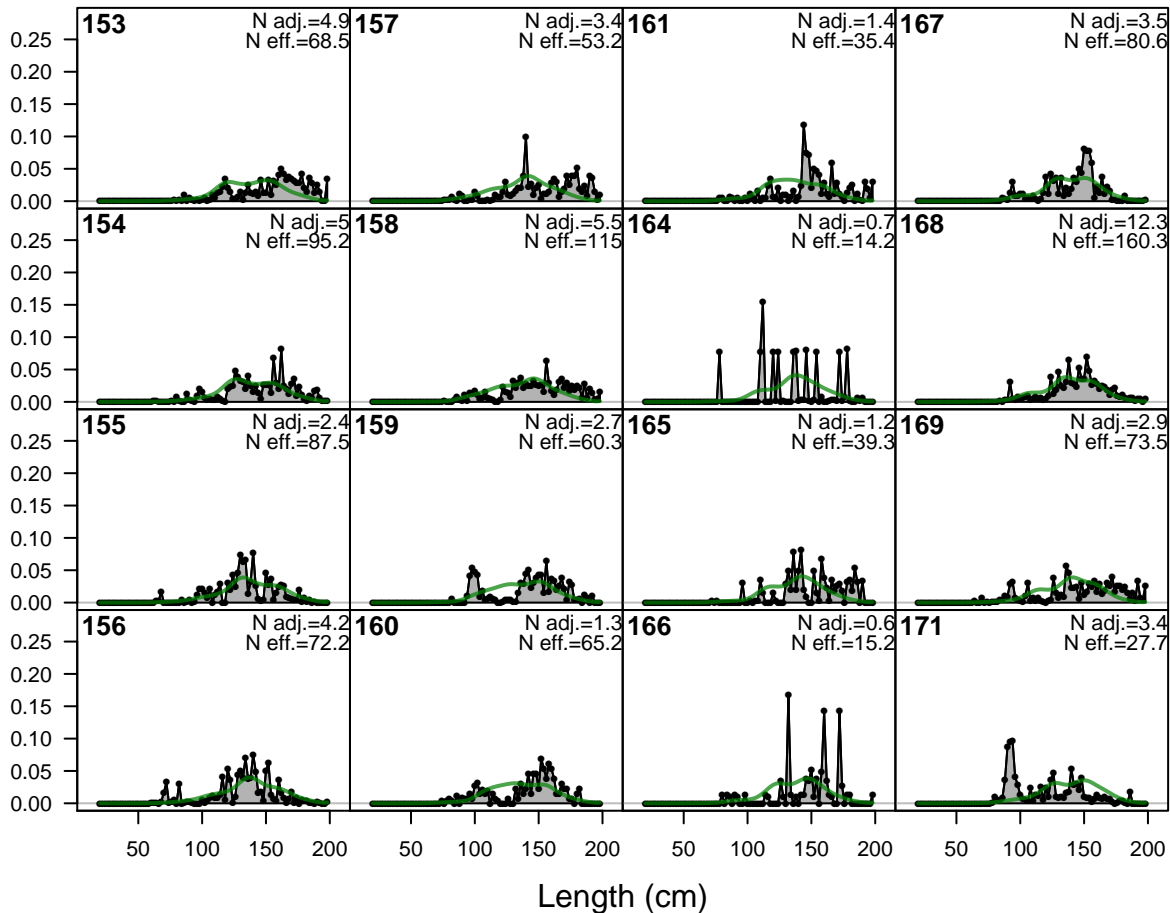
Proportion



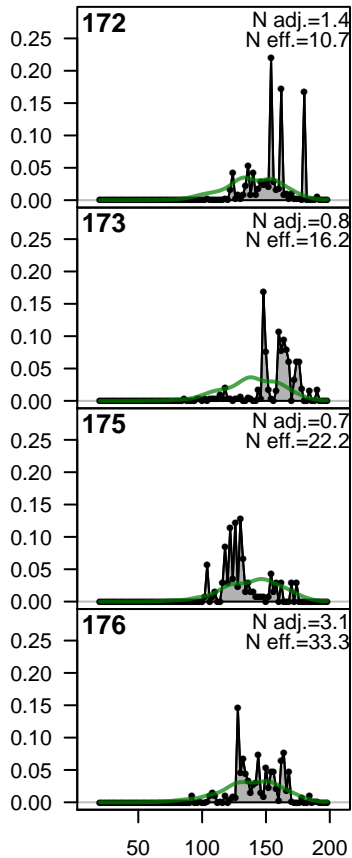
Proportion



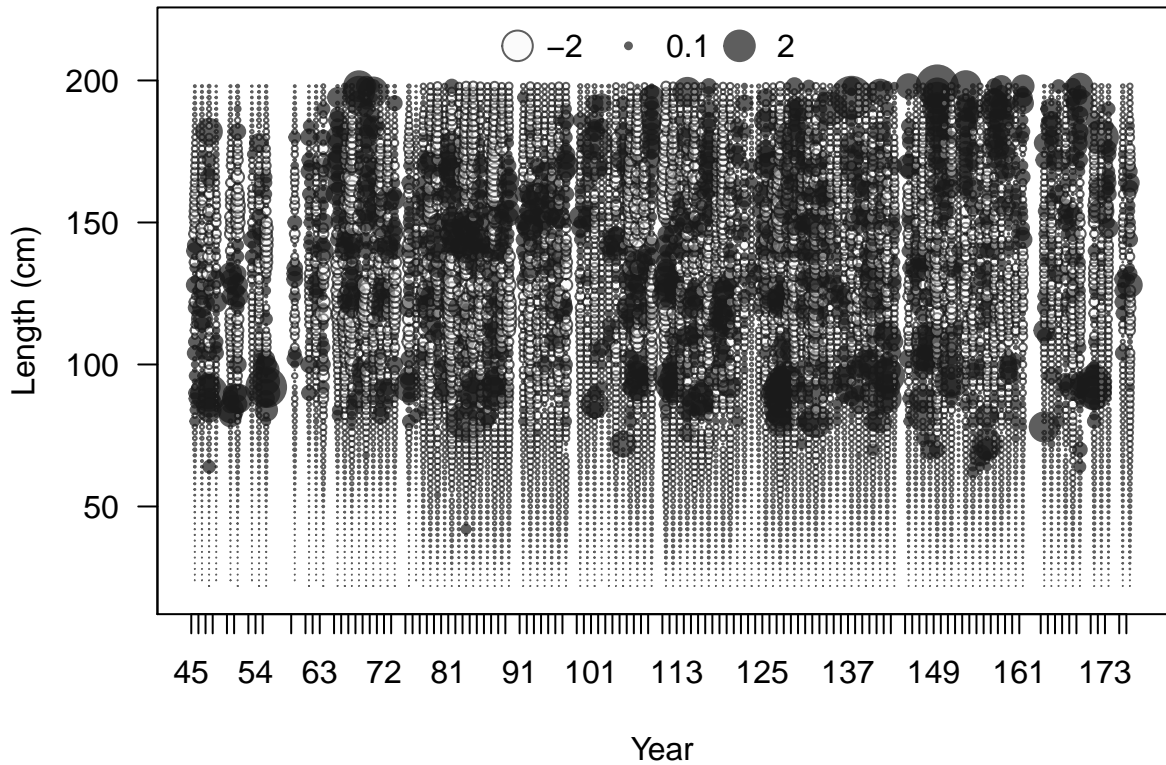
Proportion

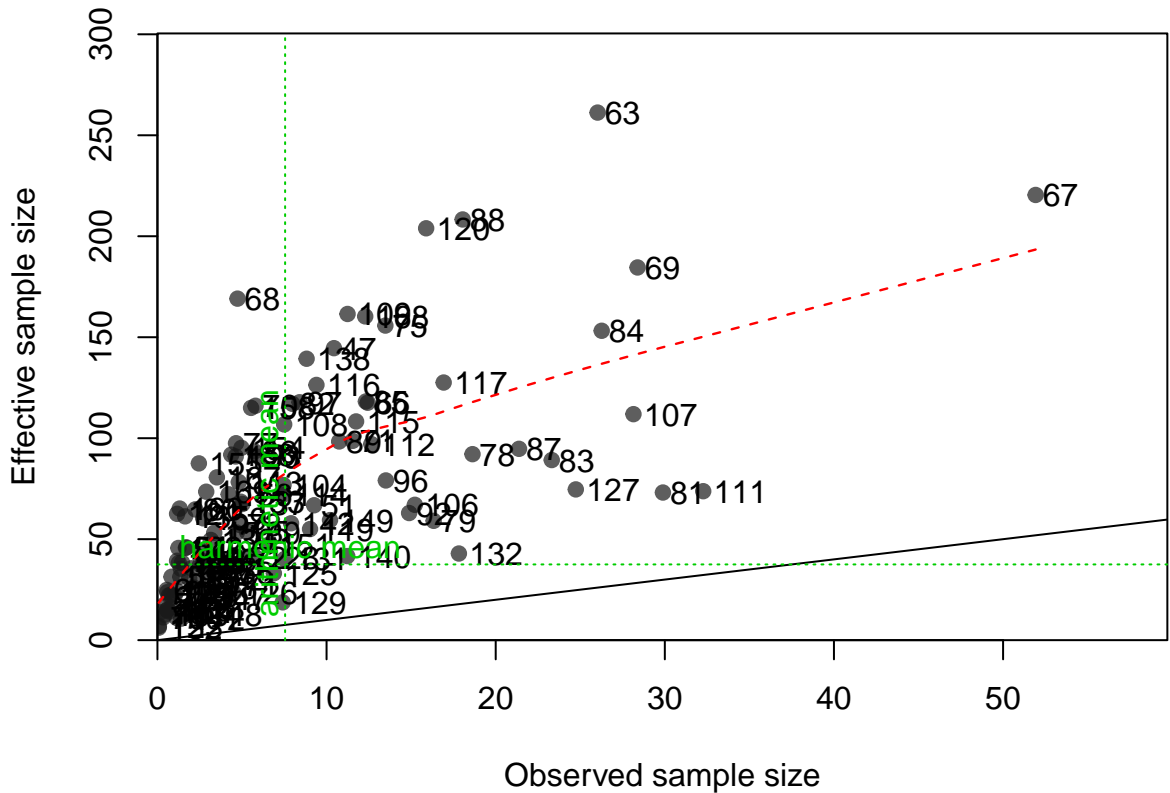


Proportion

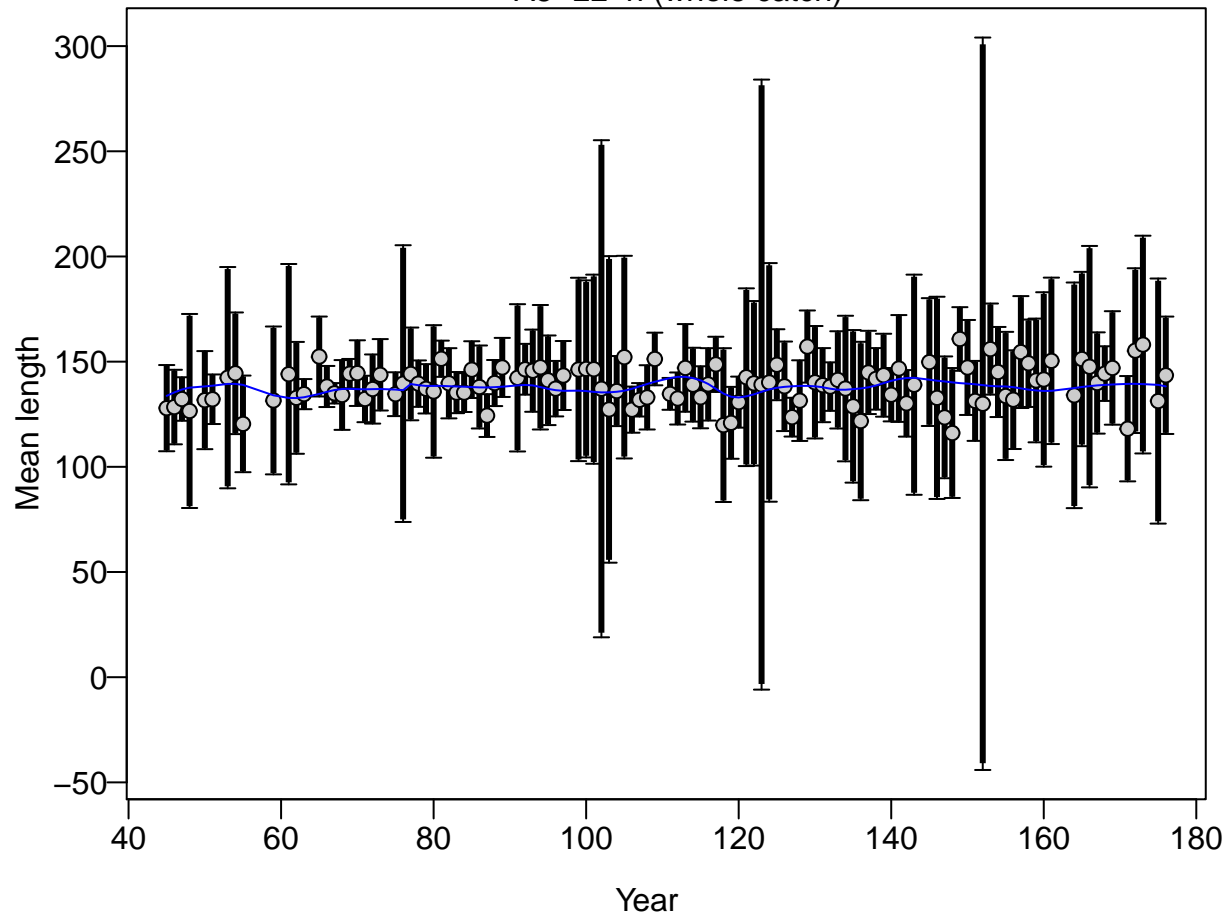


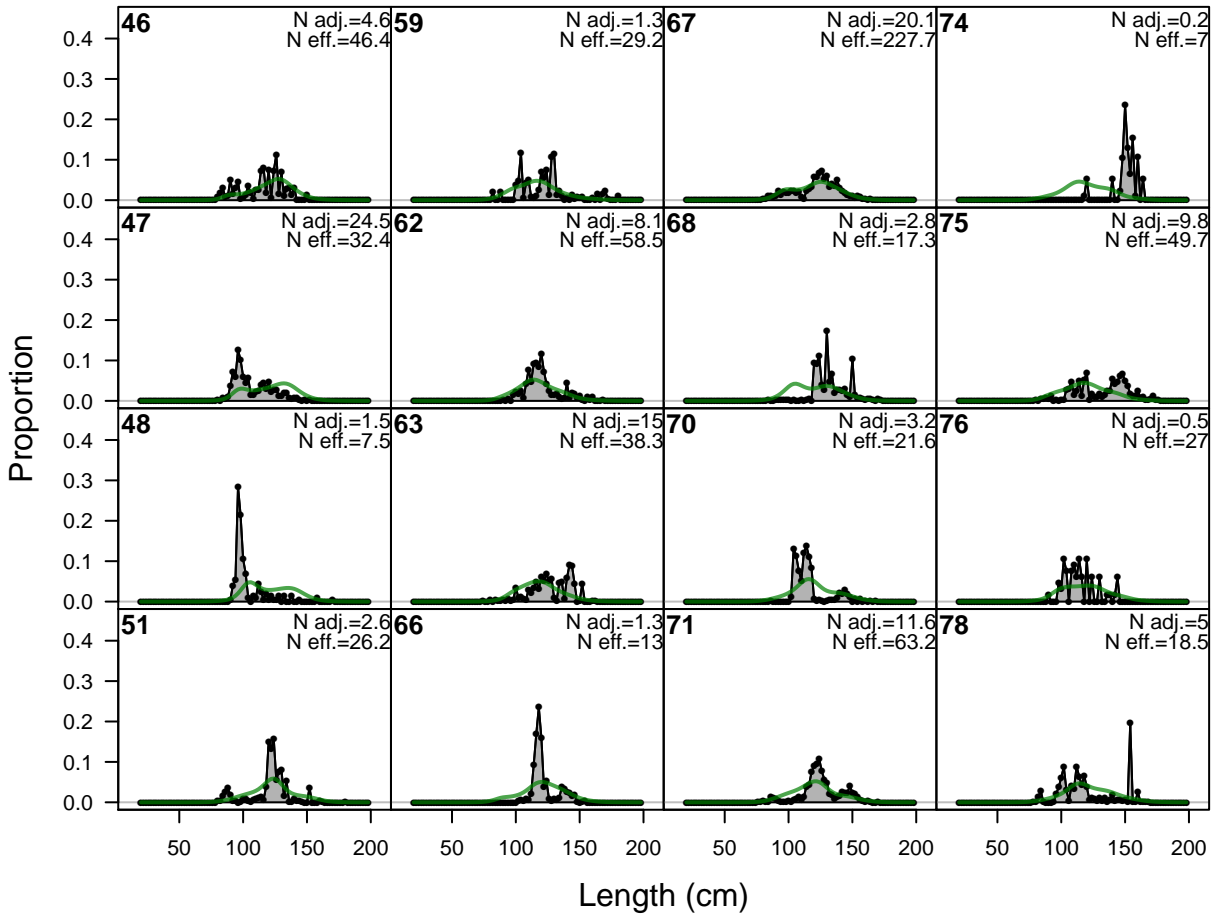
Length (cm)



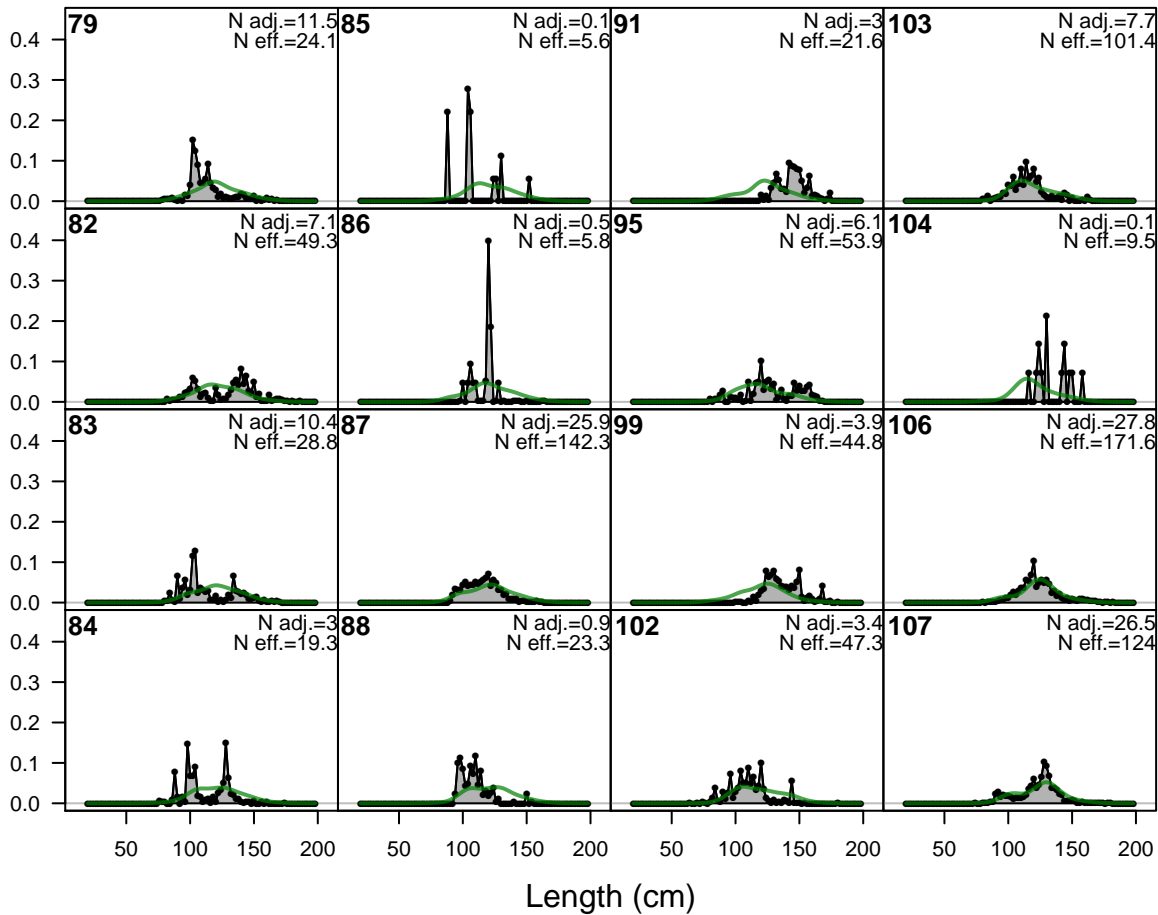


A5-LL-n (whole catch)

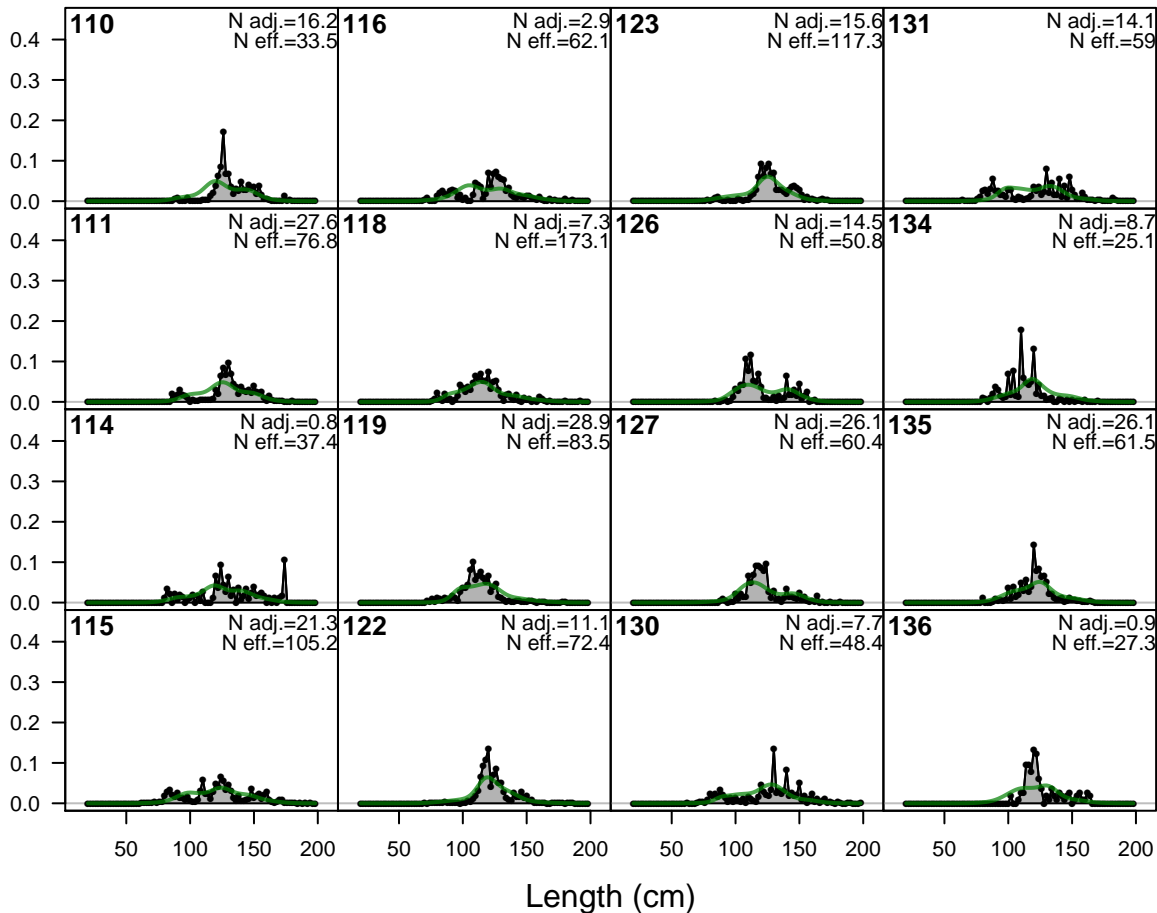




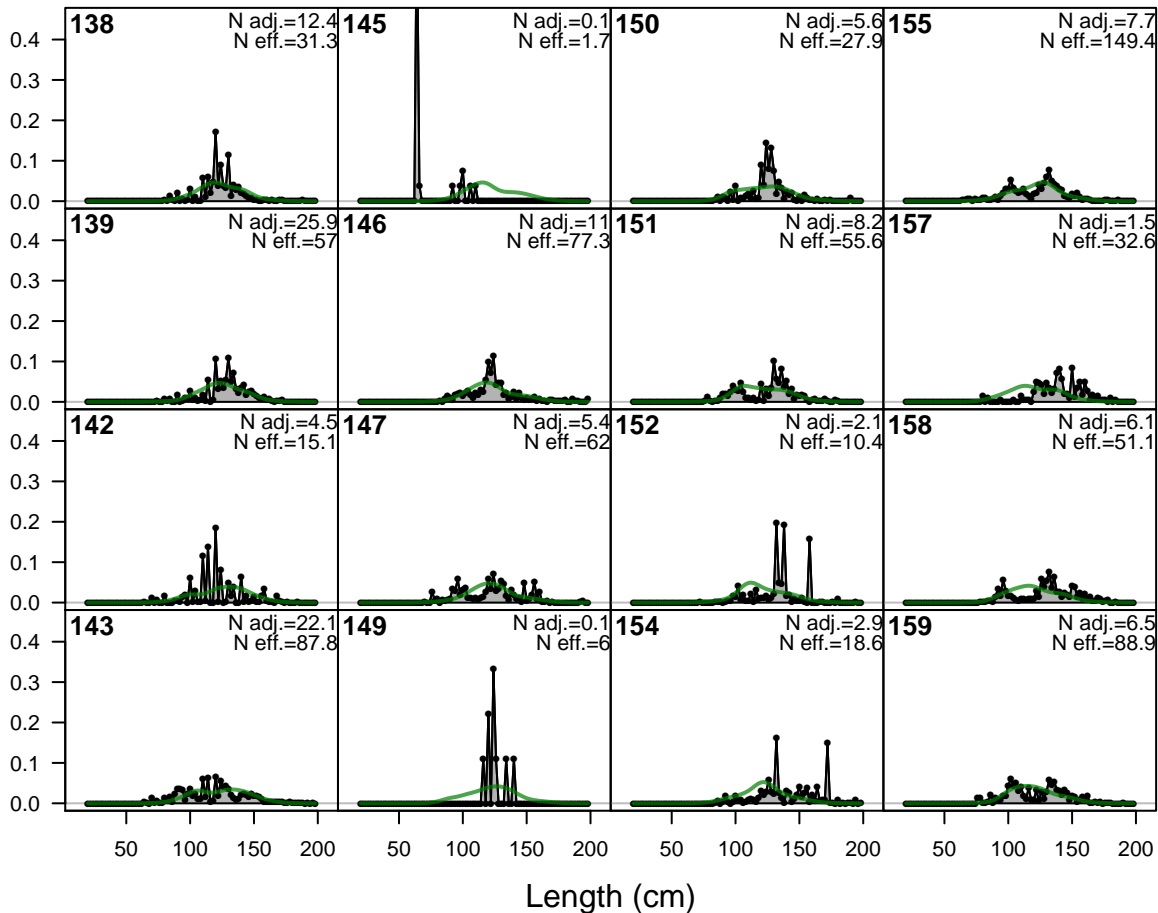
Proportion



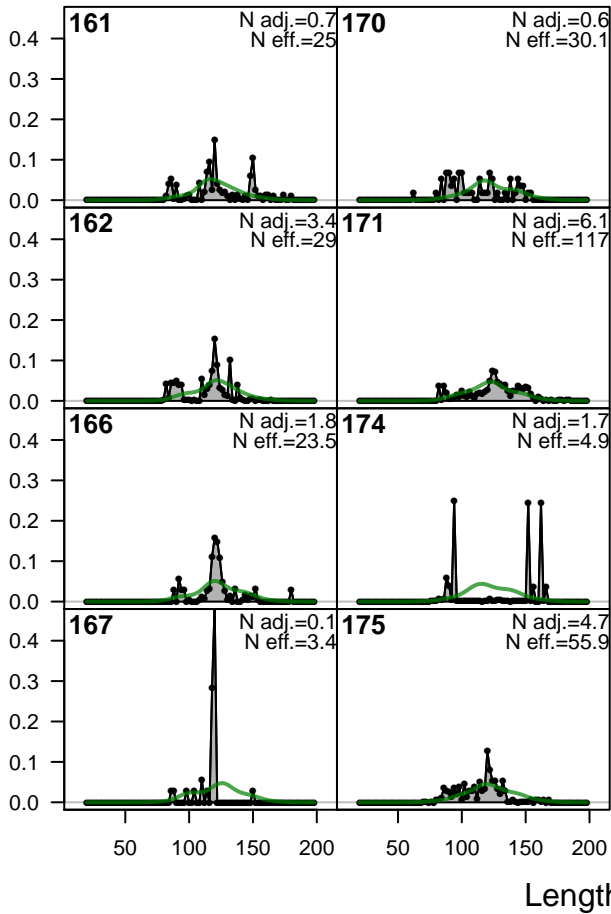
Proportion

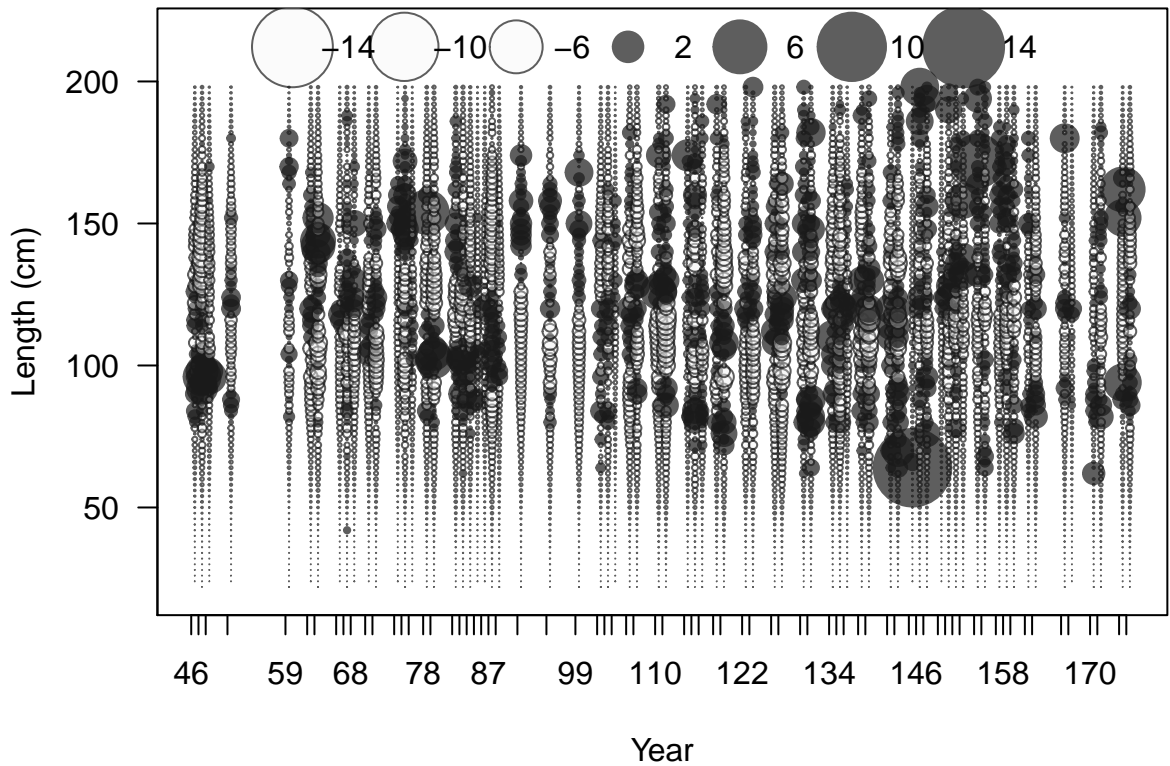


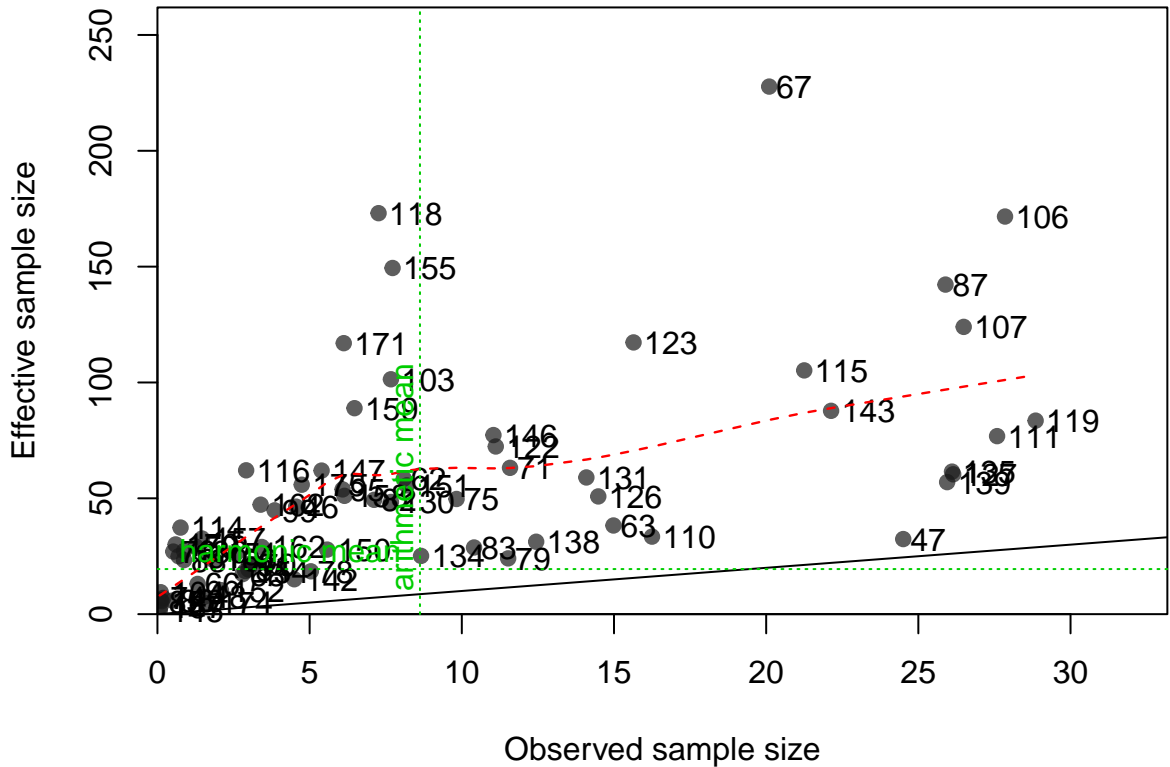
Proportion



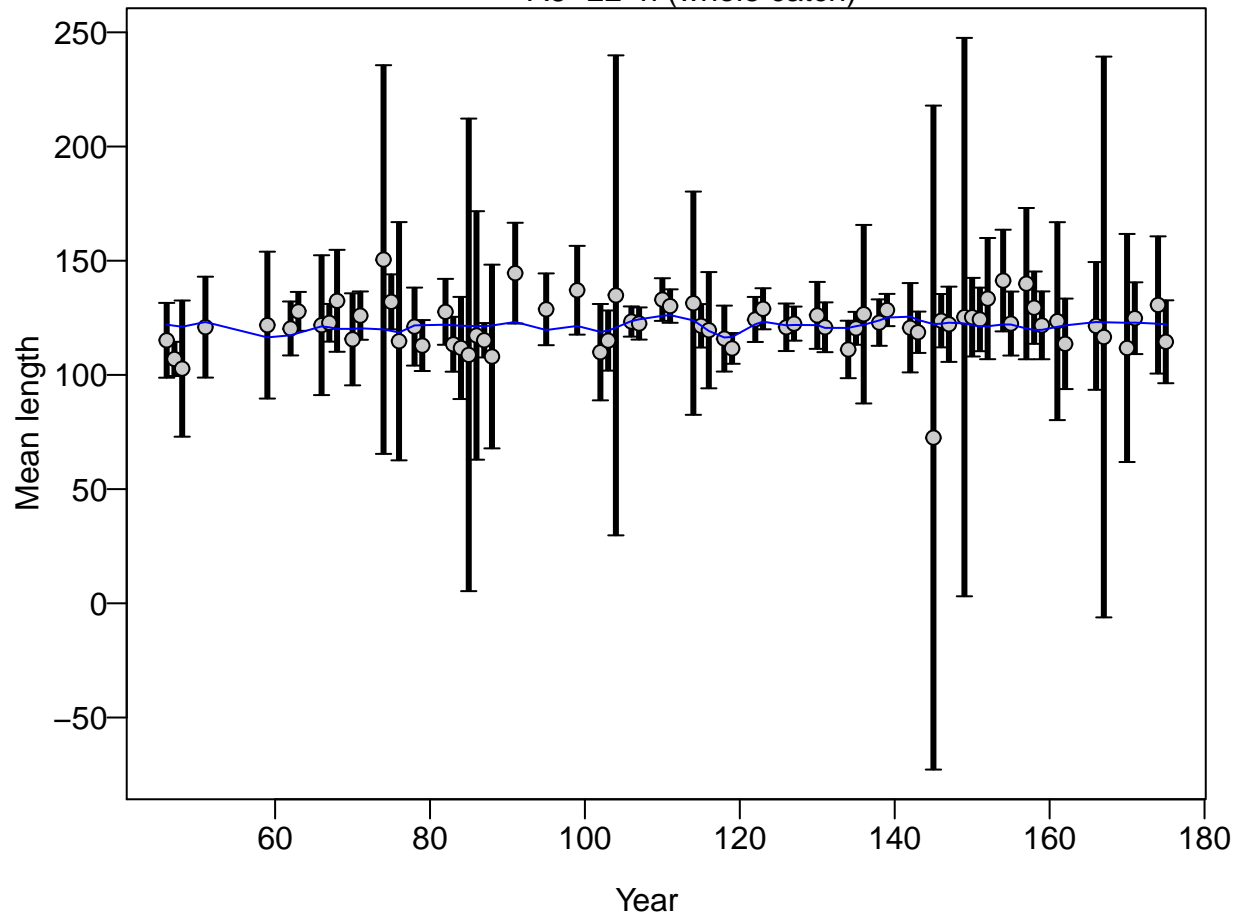
Proportion

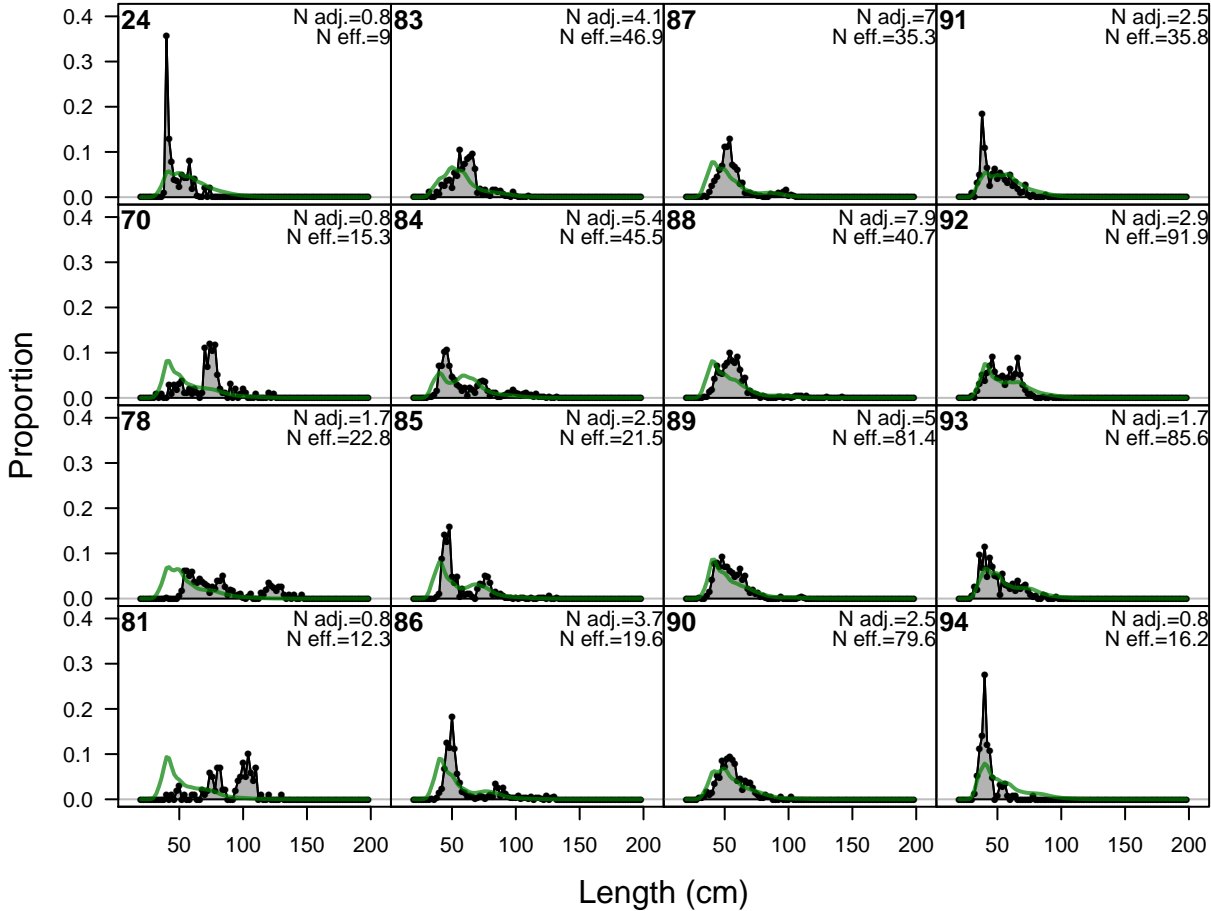




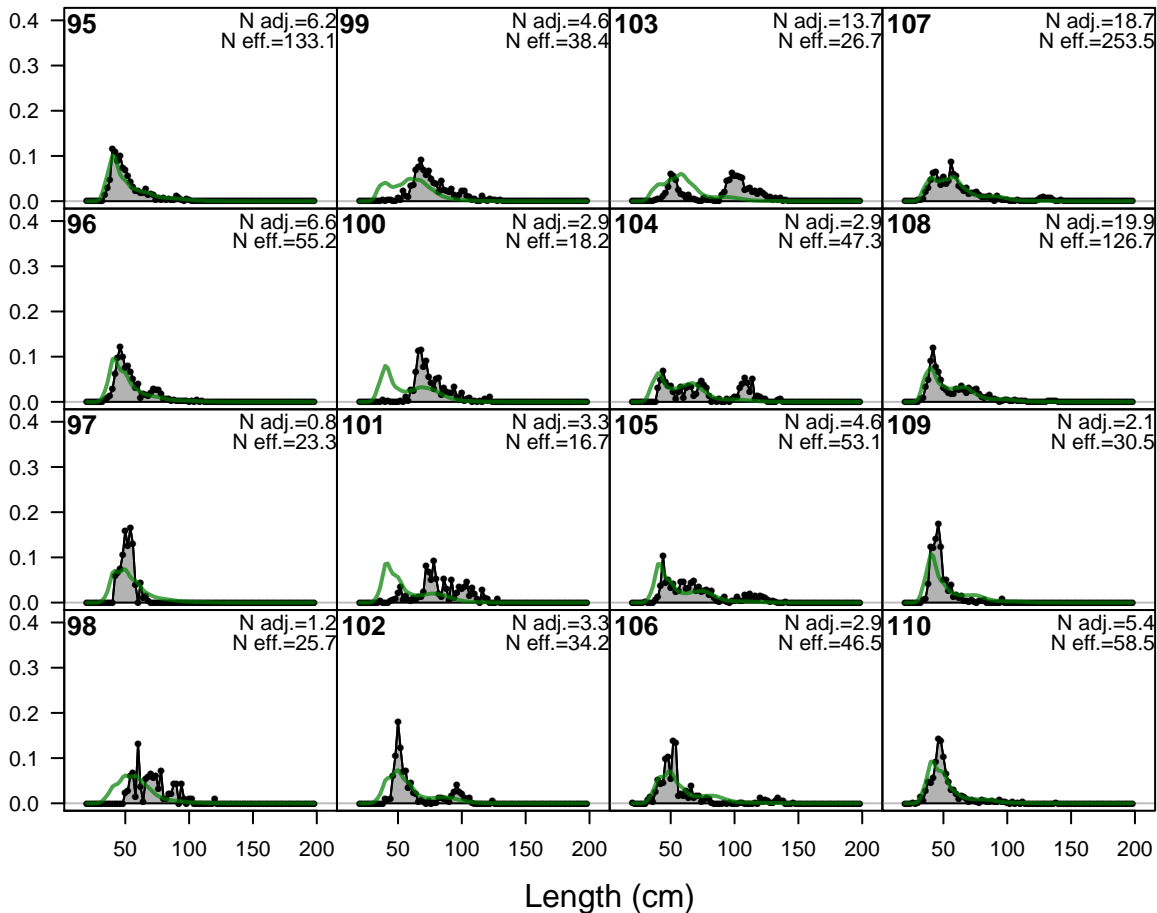


A6-LL-n (whole catch)

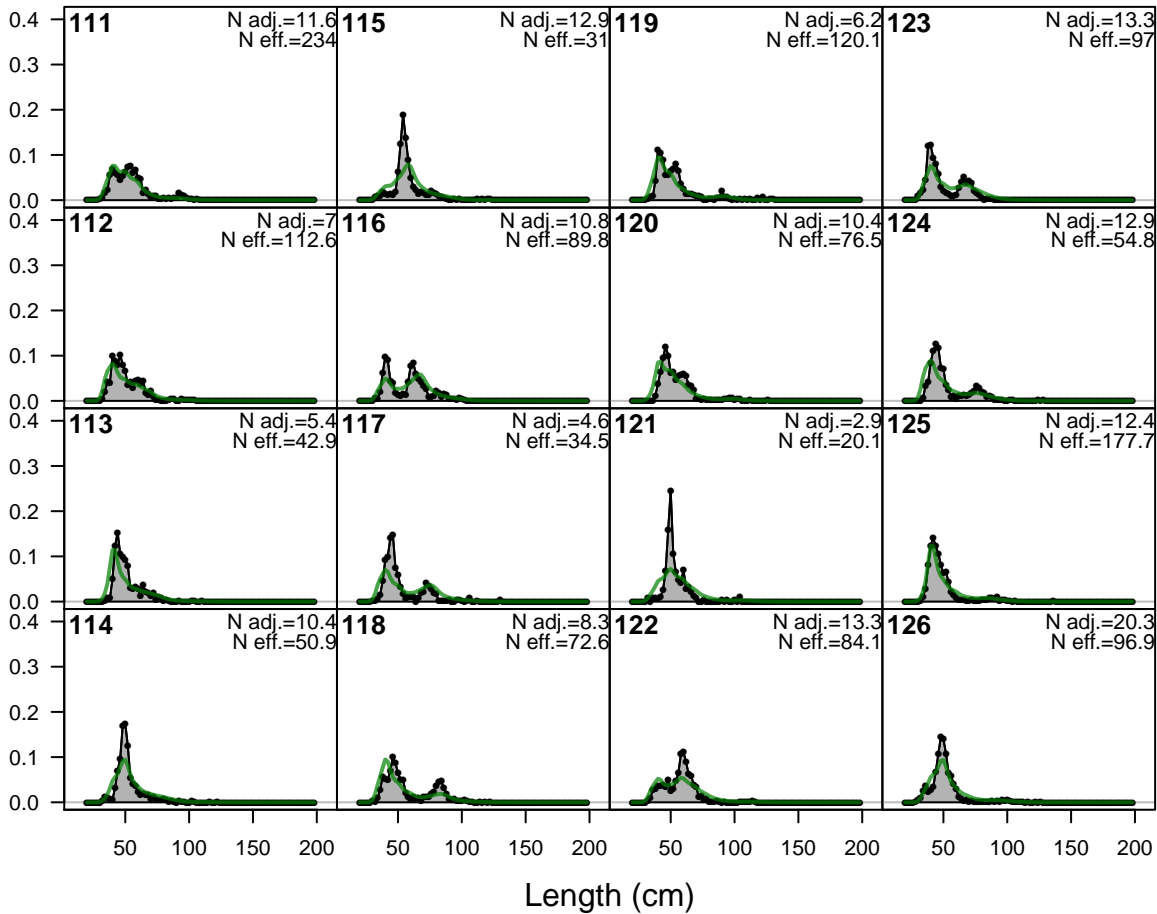




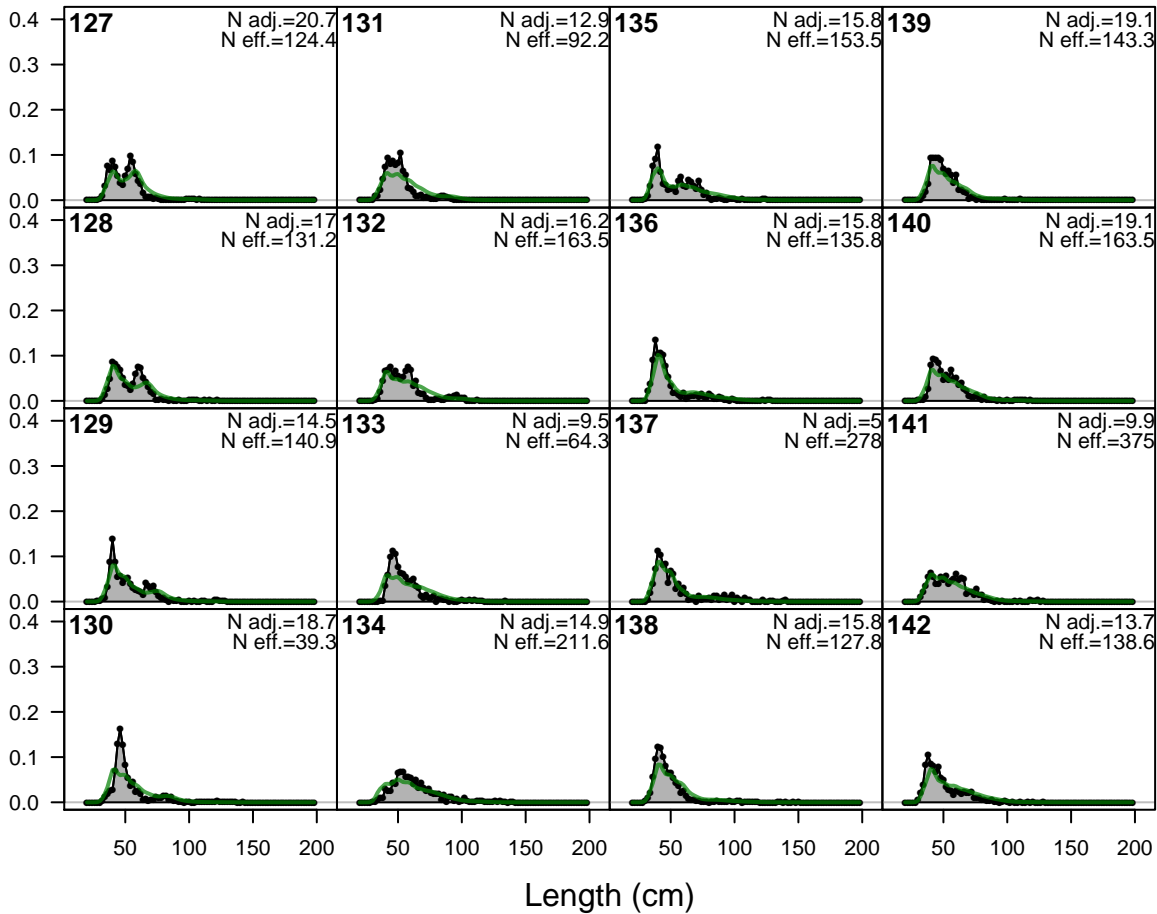
Proportion



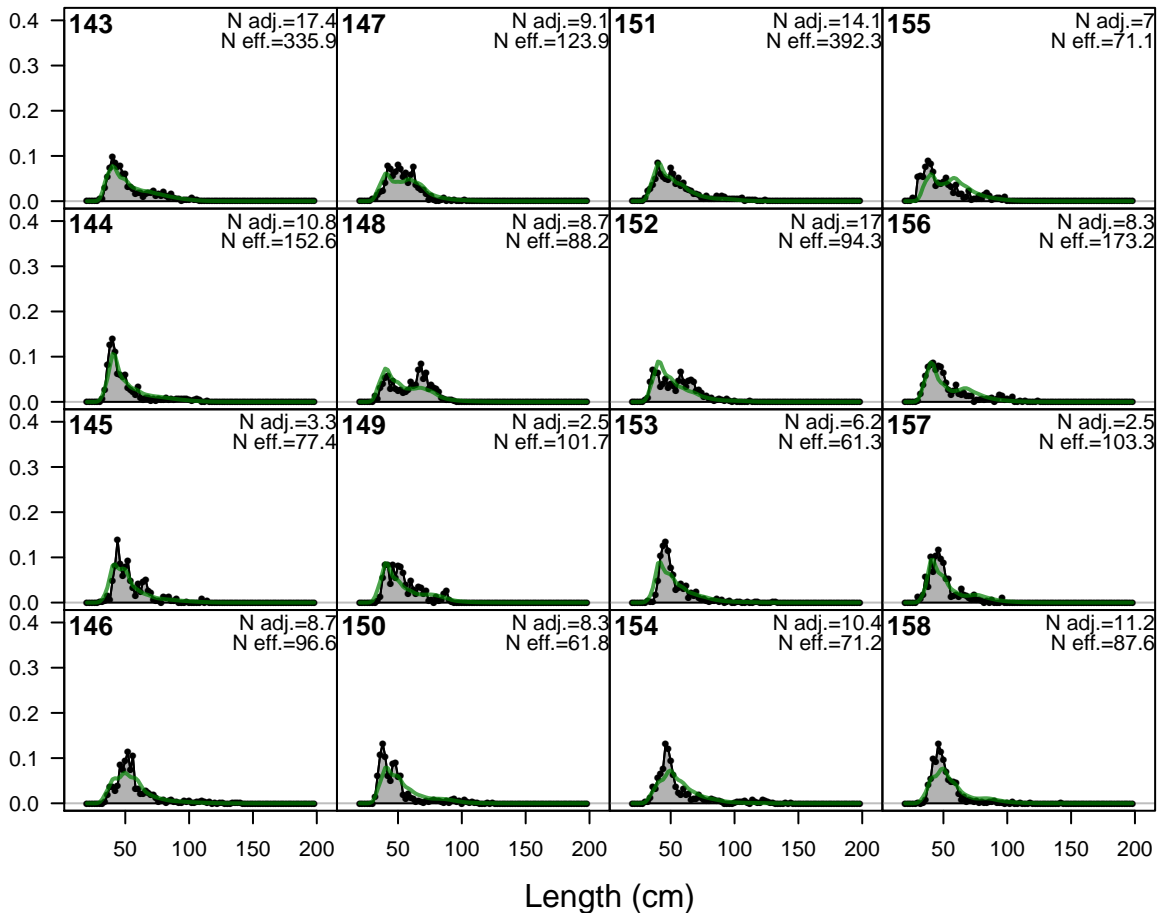
Proportion

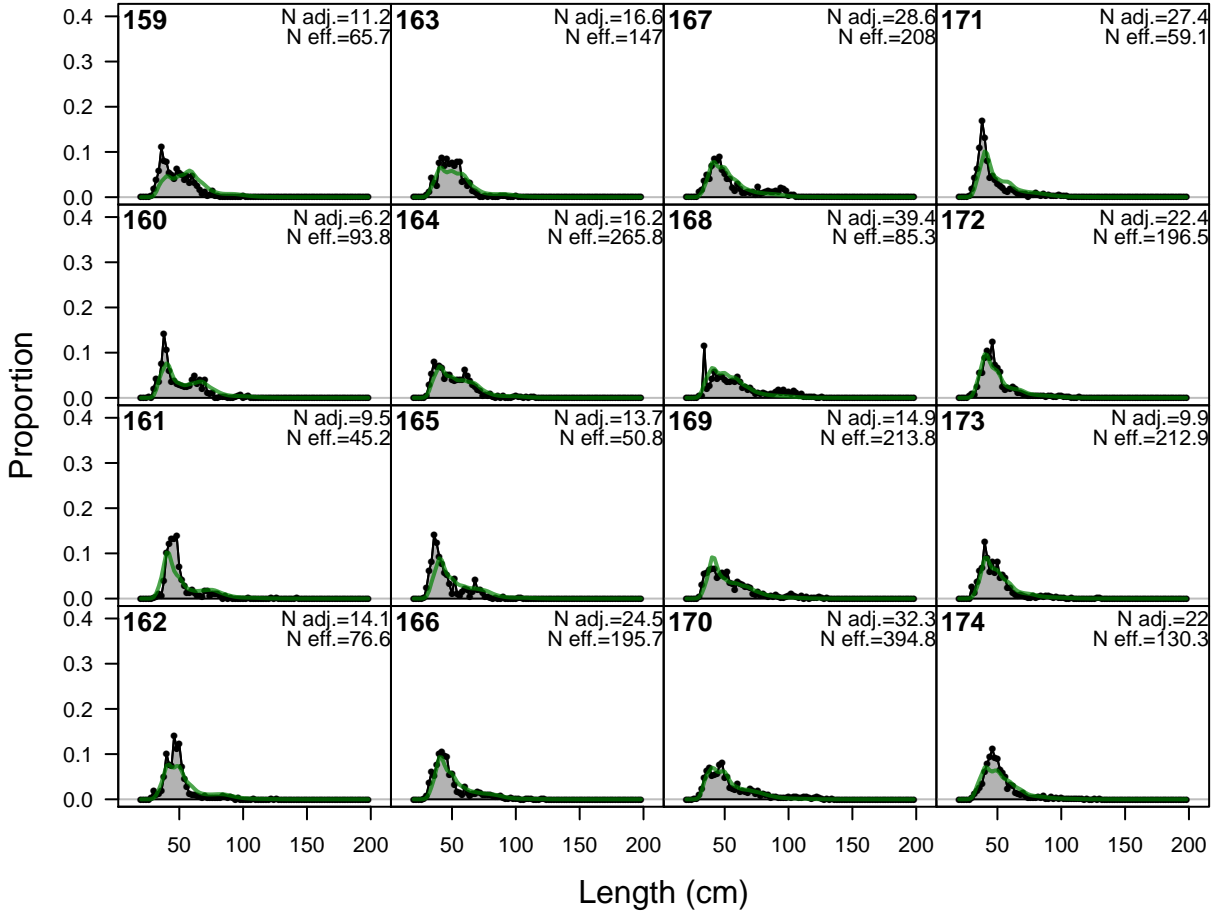


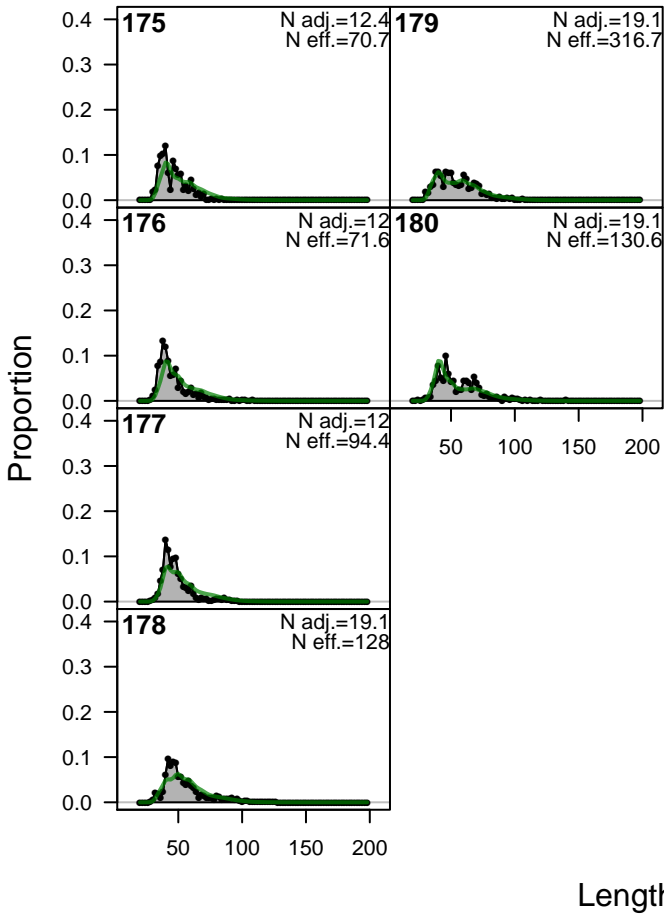
Proportion

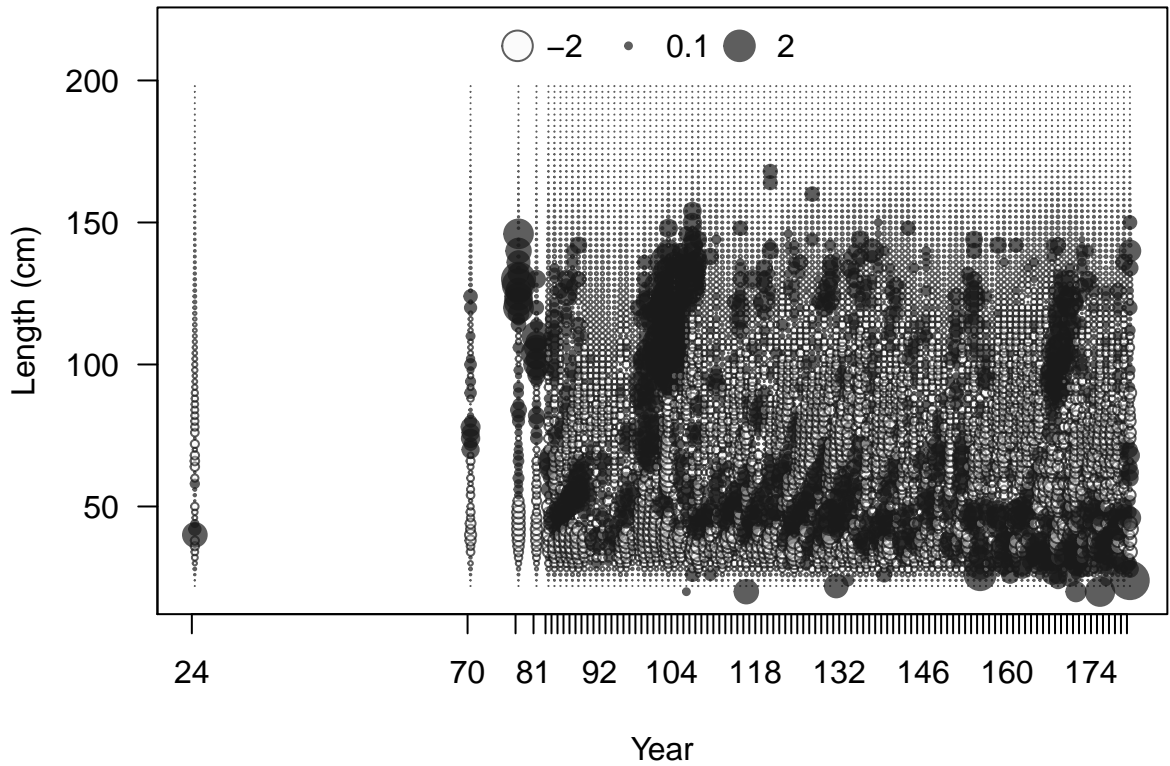


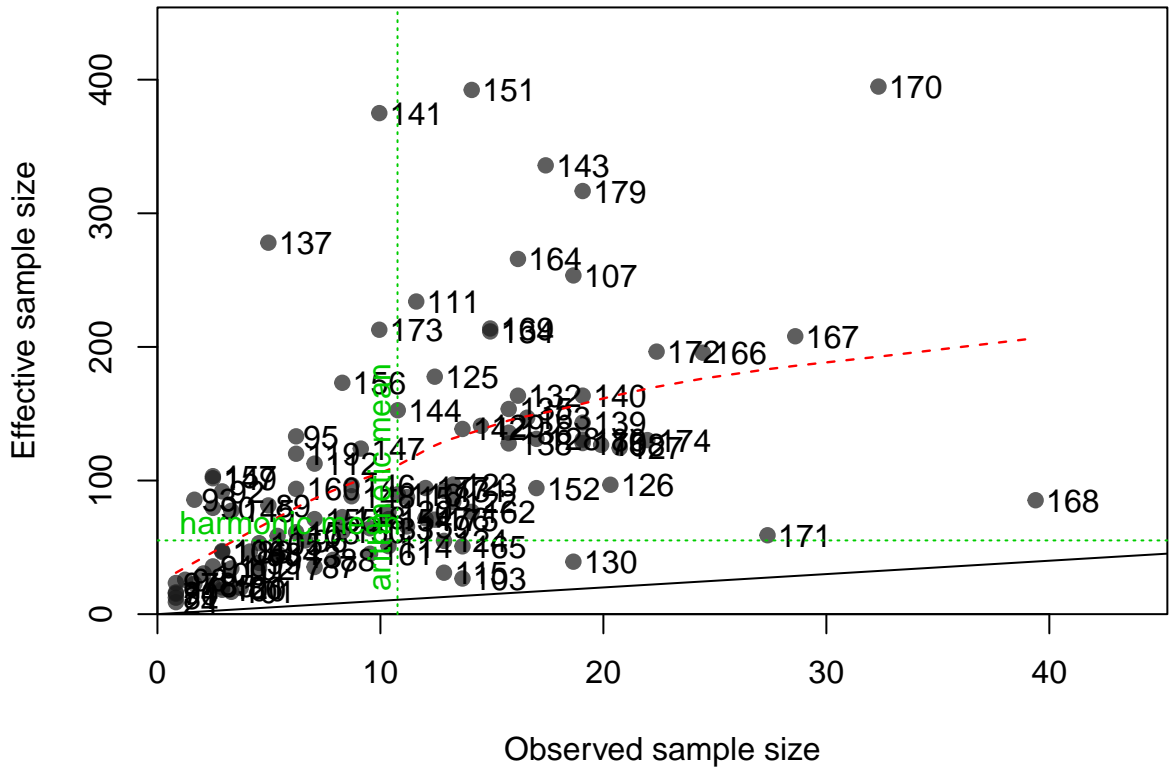
Proportion



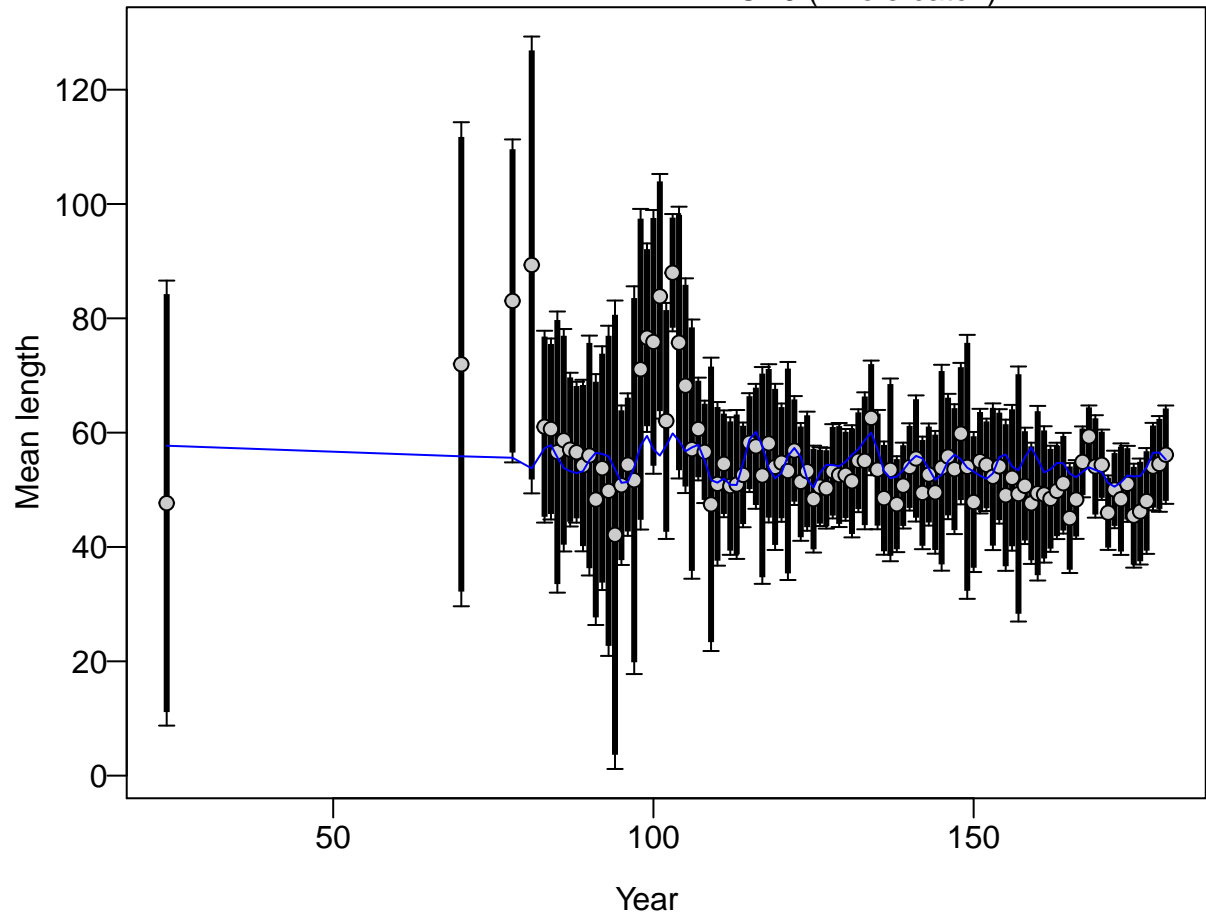




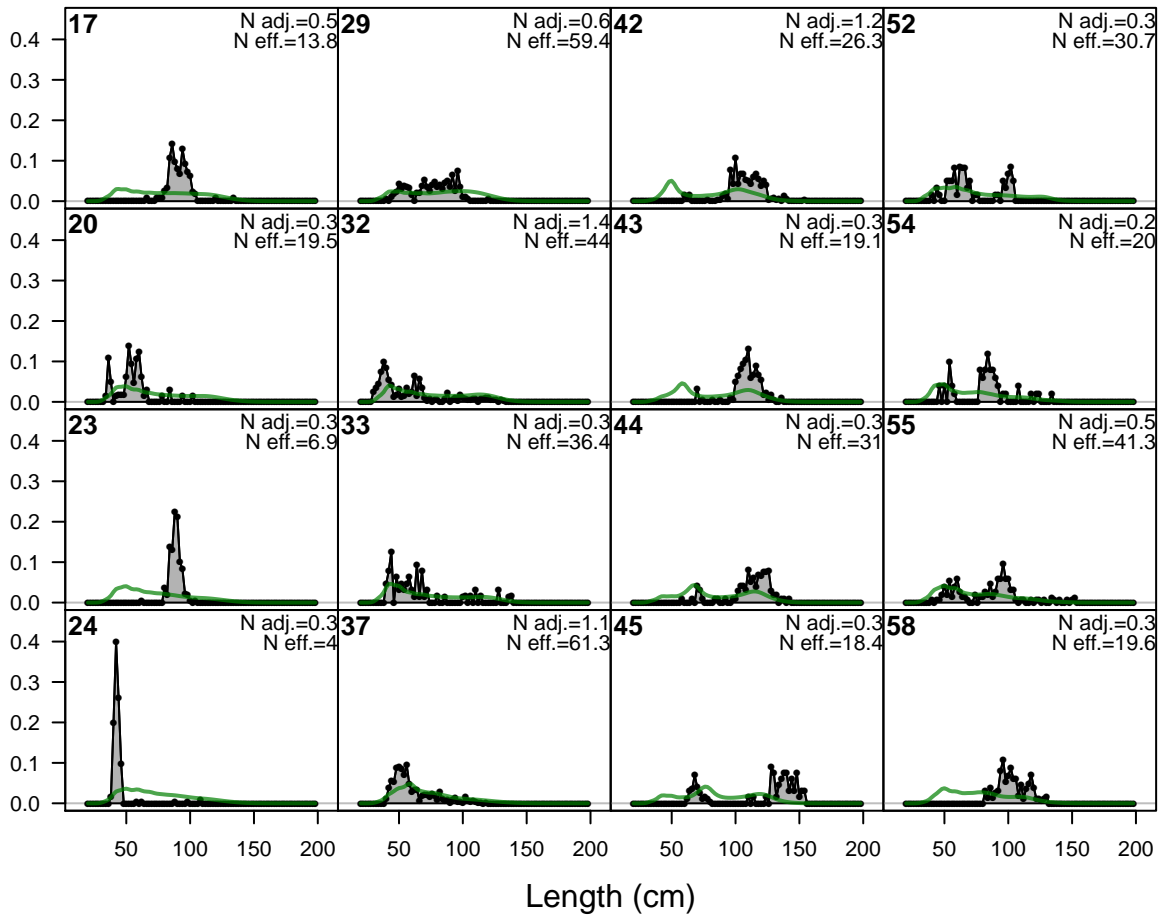




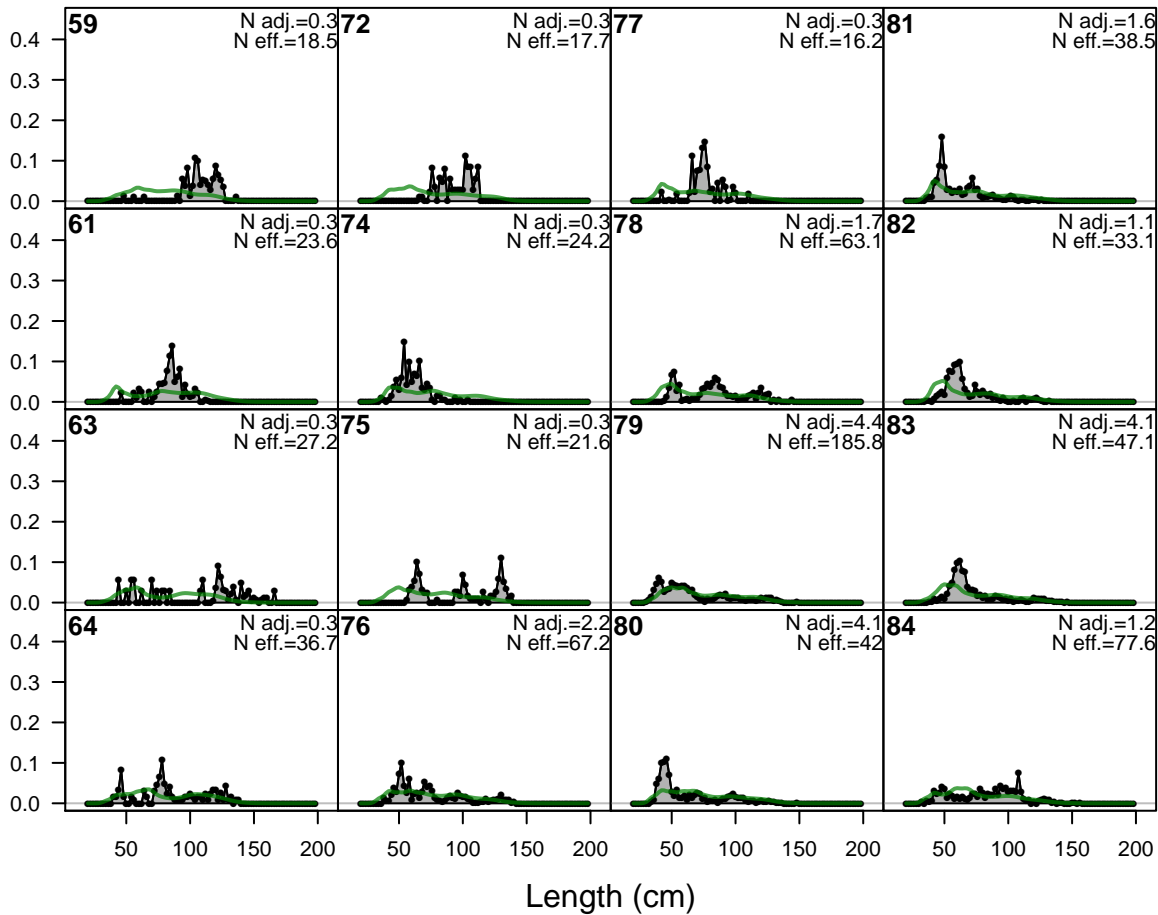
A2-OBJ (whole catch)



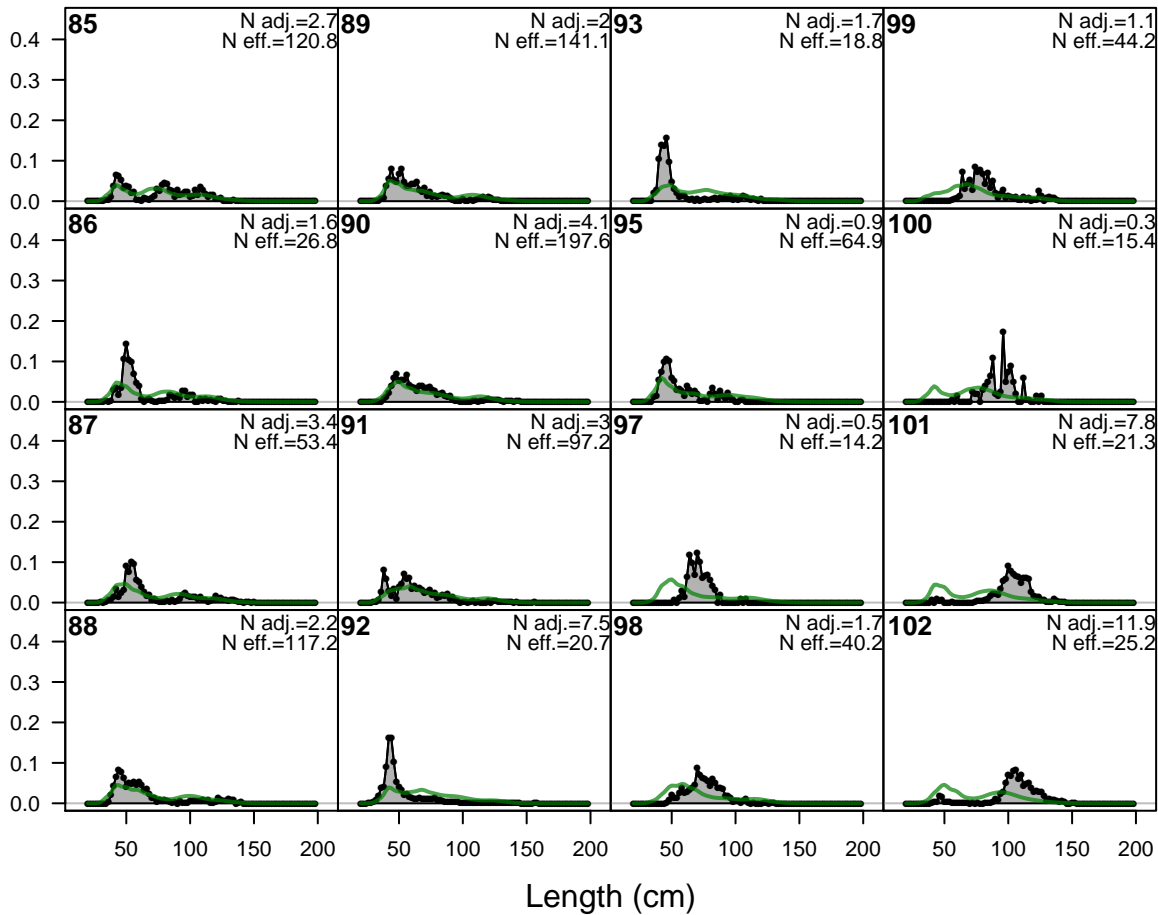
Proportion



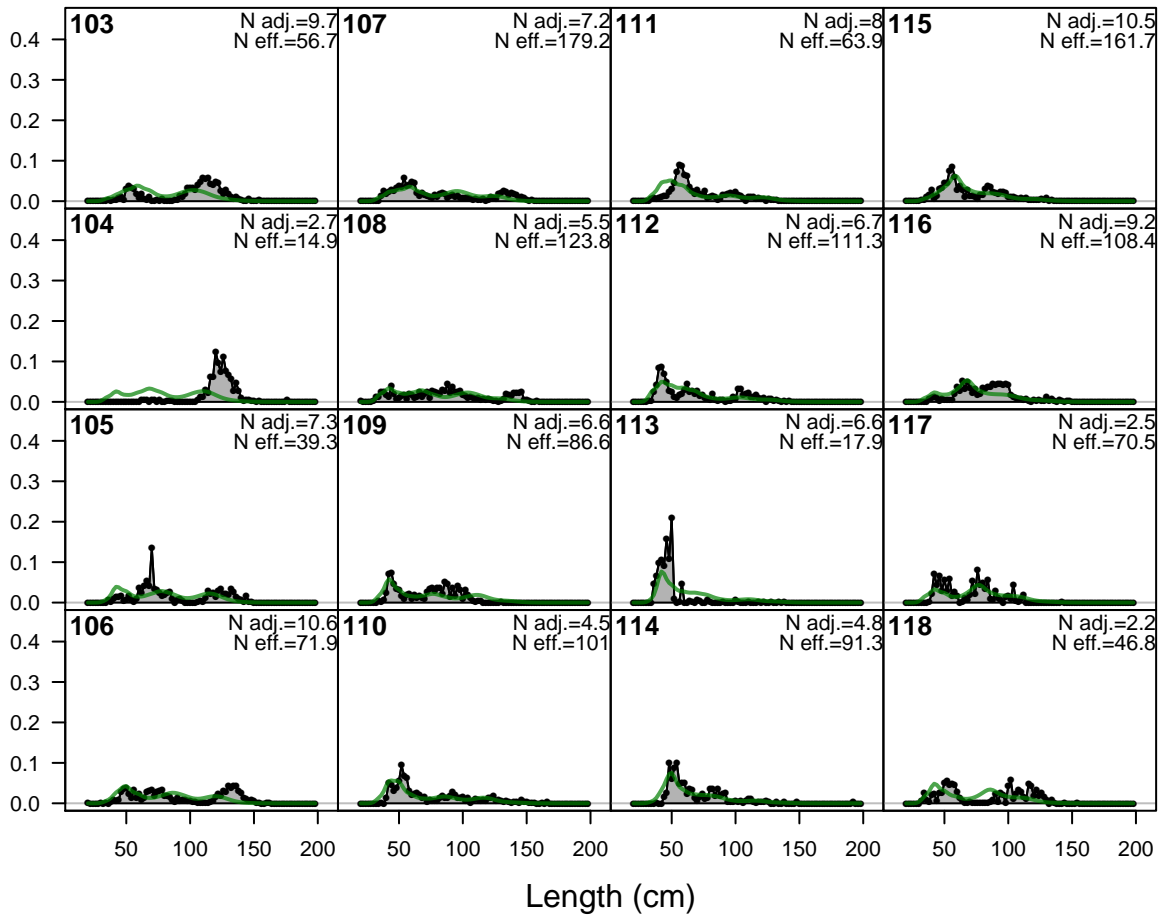
Proportion



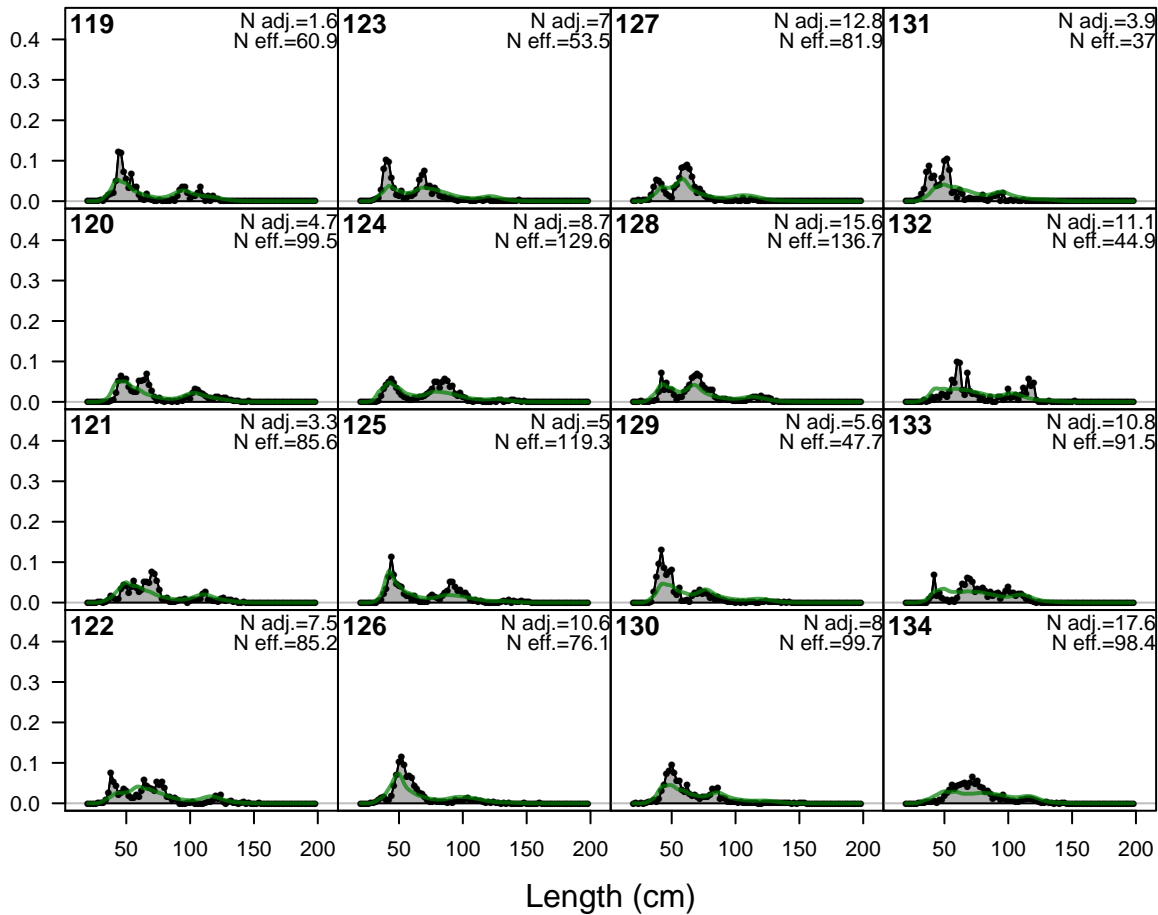
Proportion



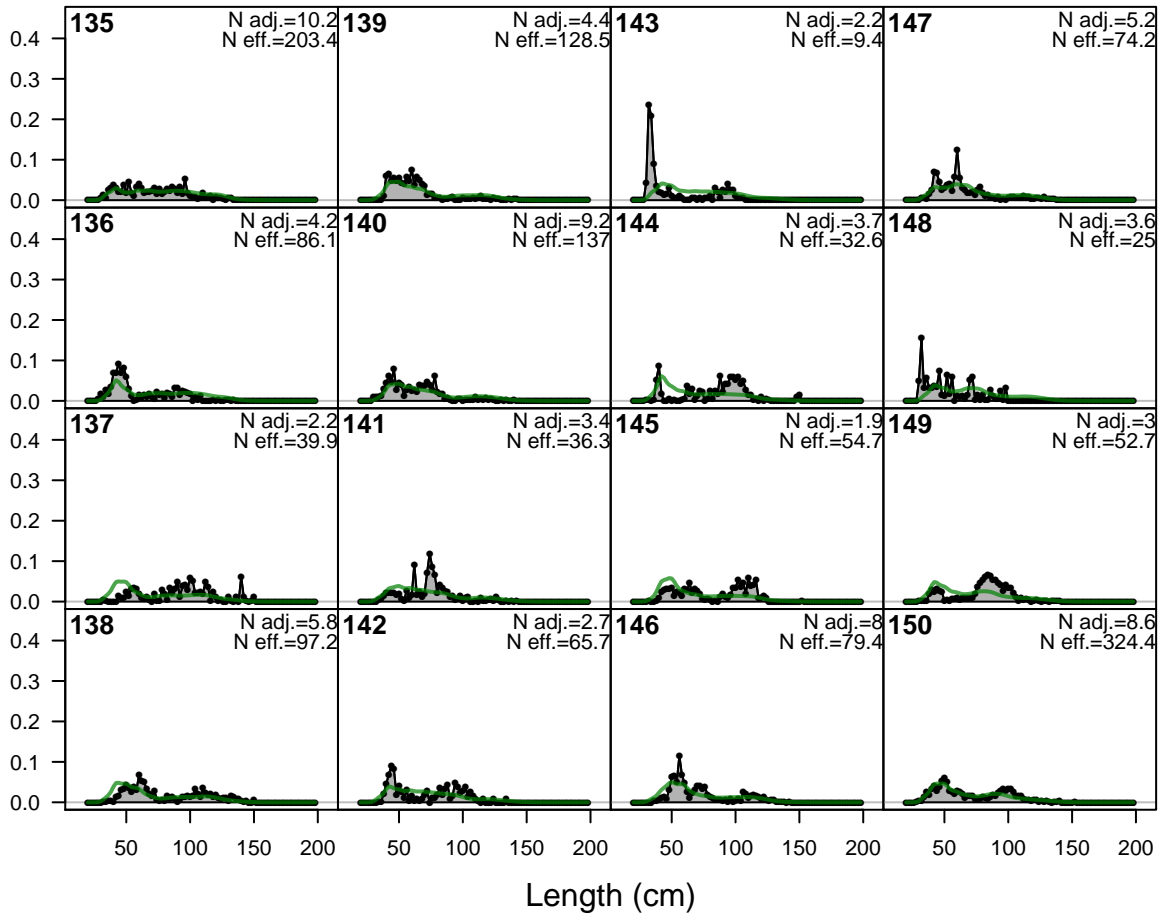
Proportion



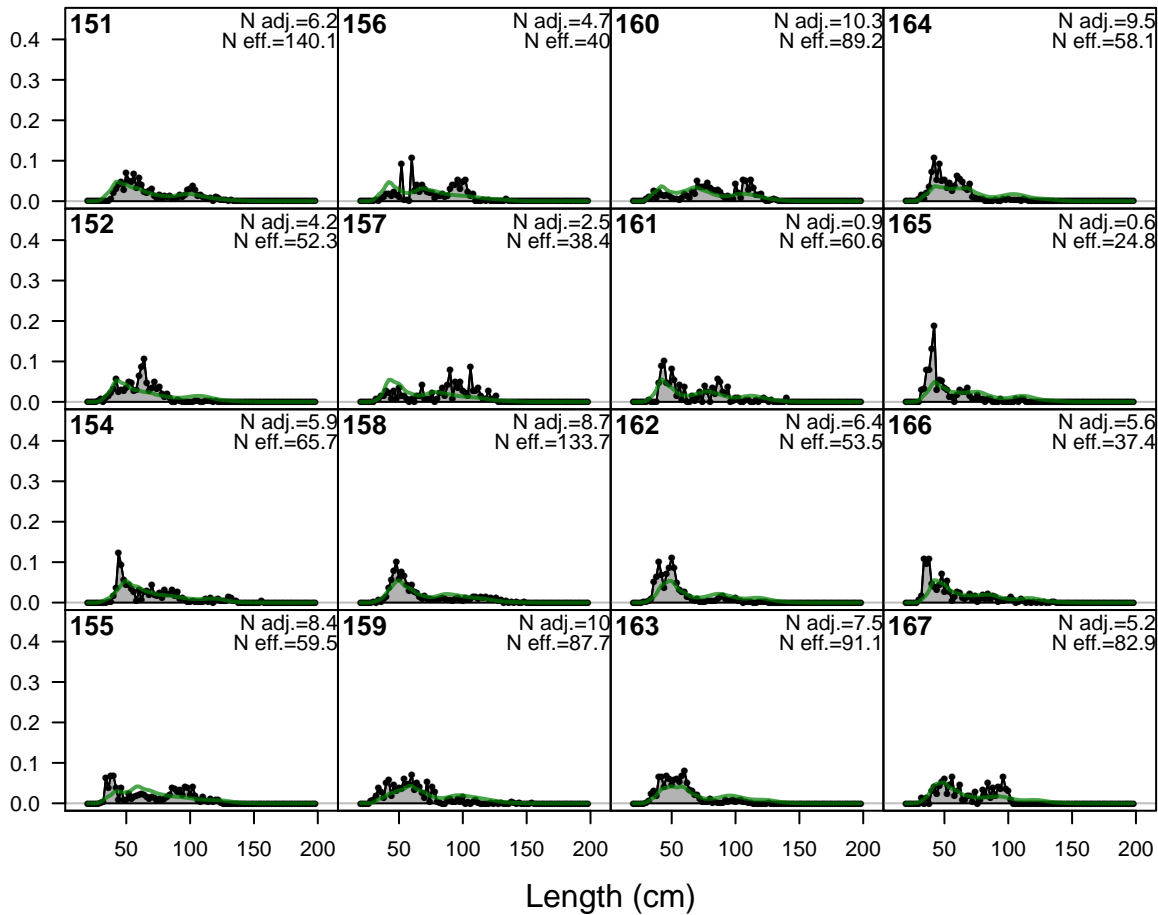
Proportion



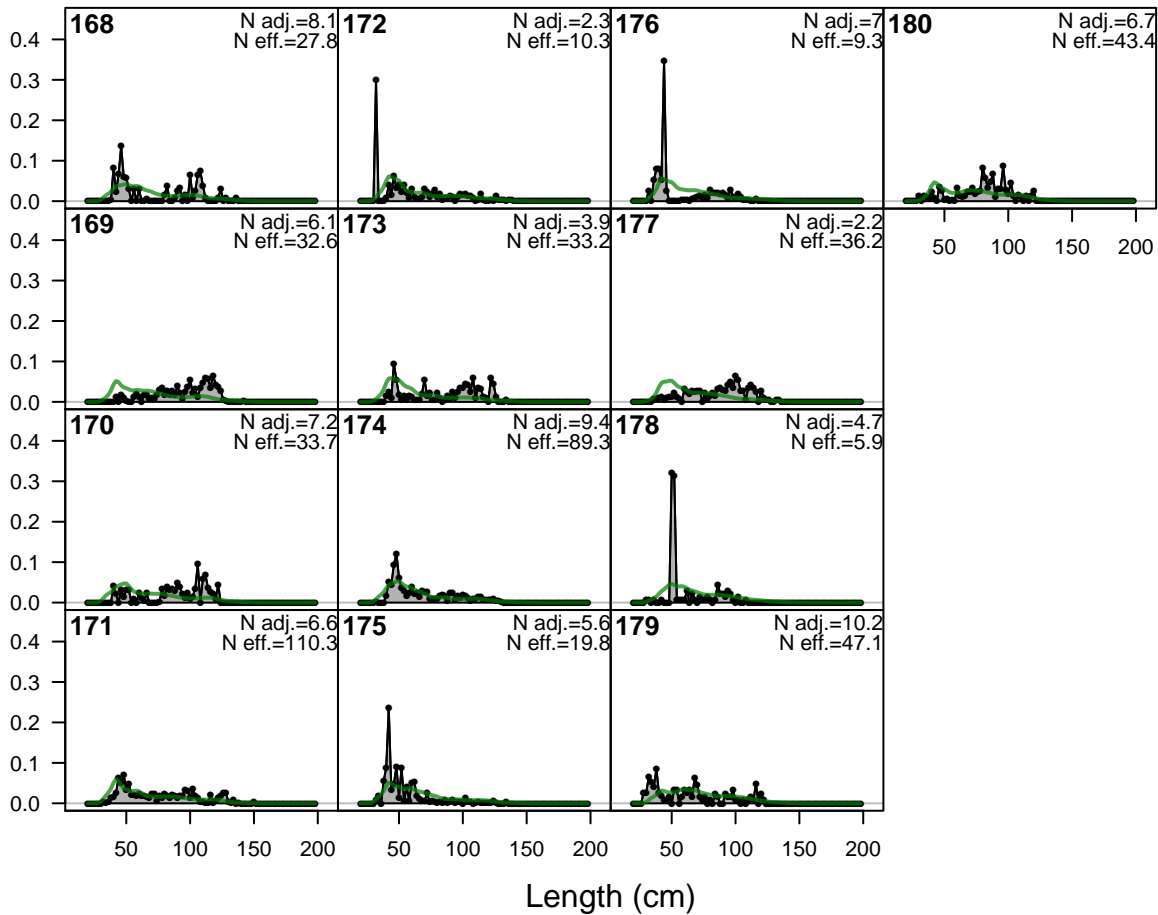
Proportion

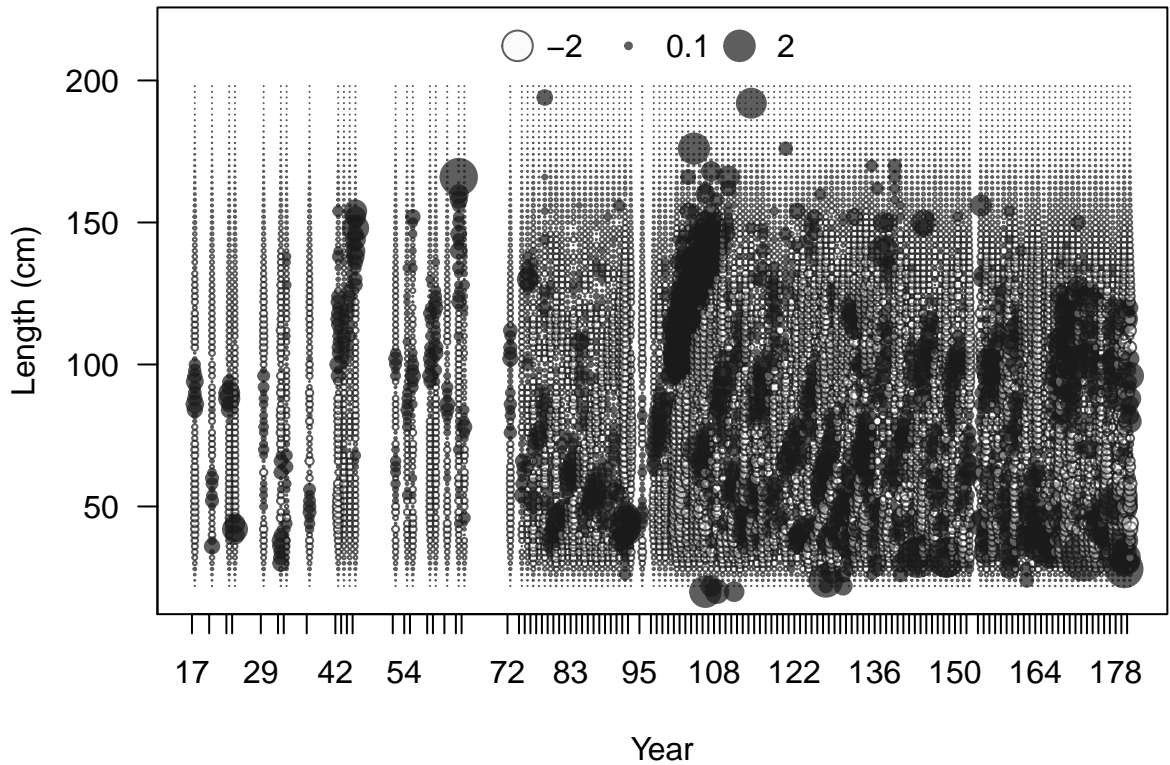


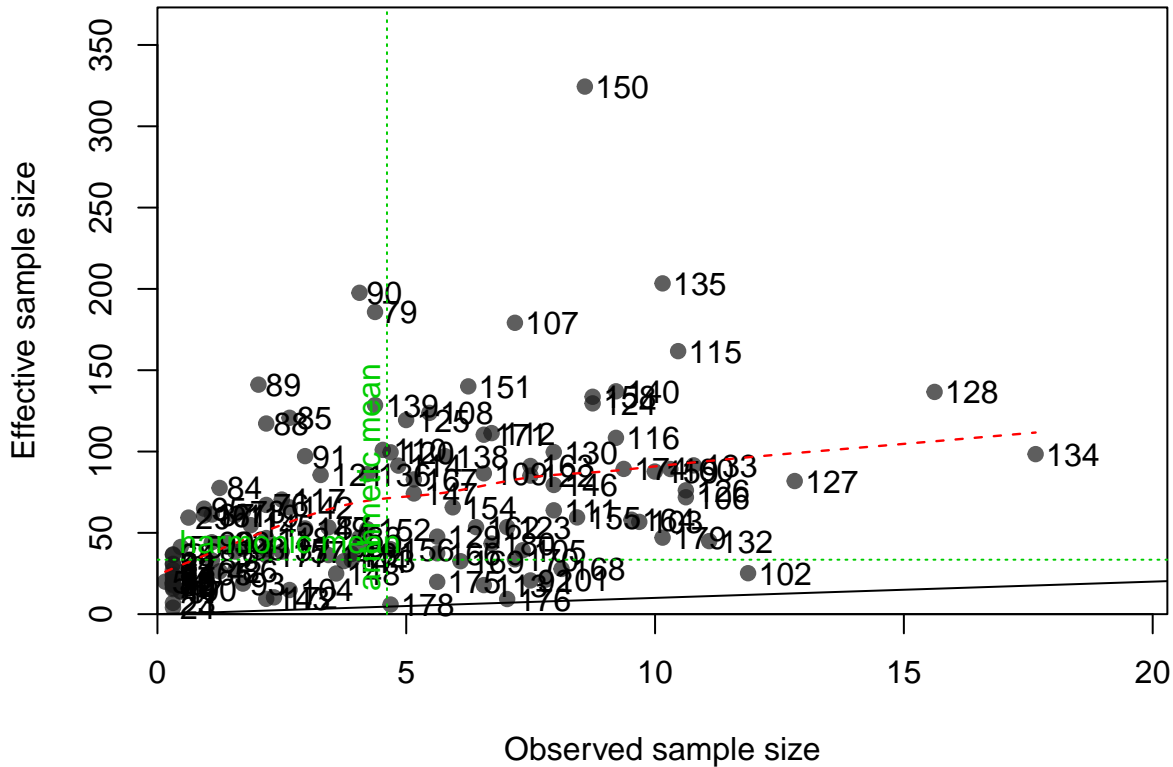
Proportion



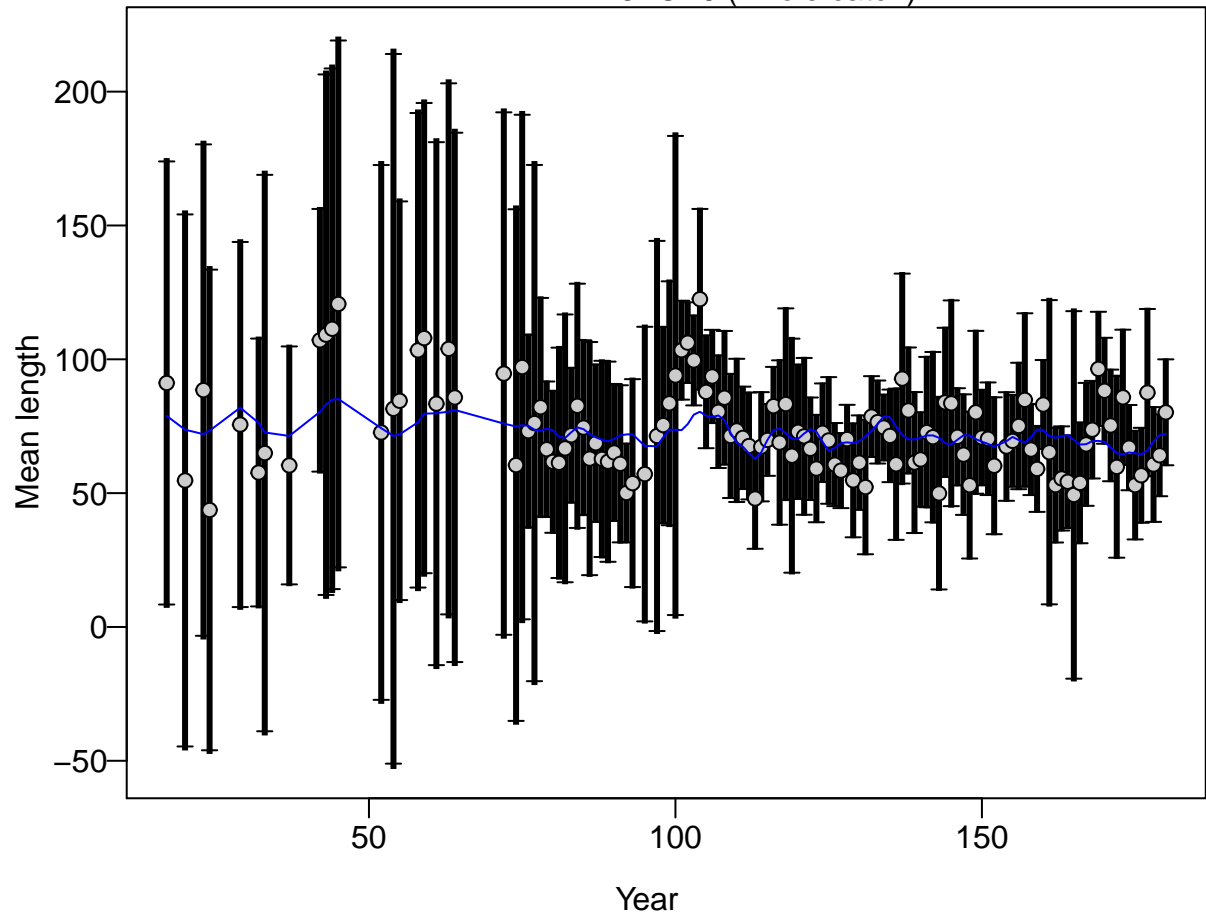
Proportion



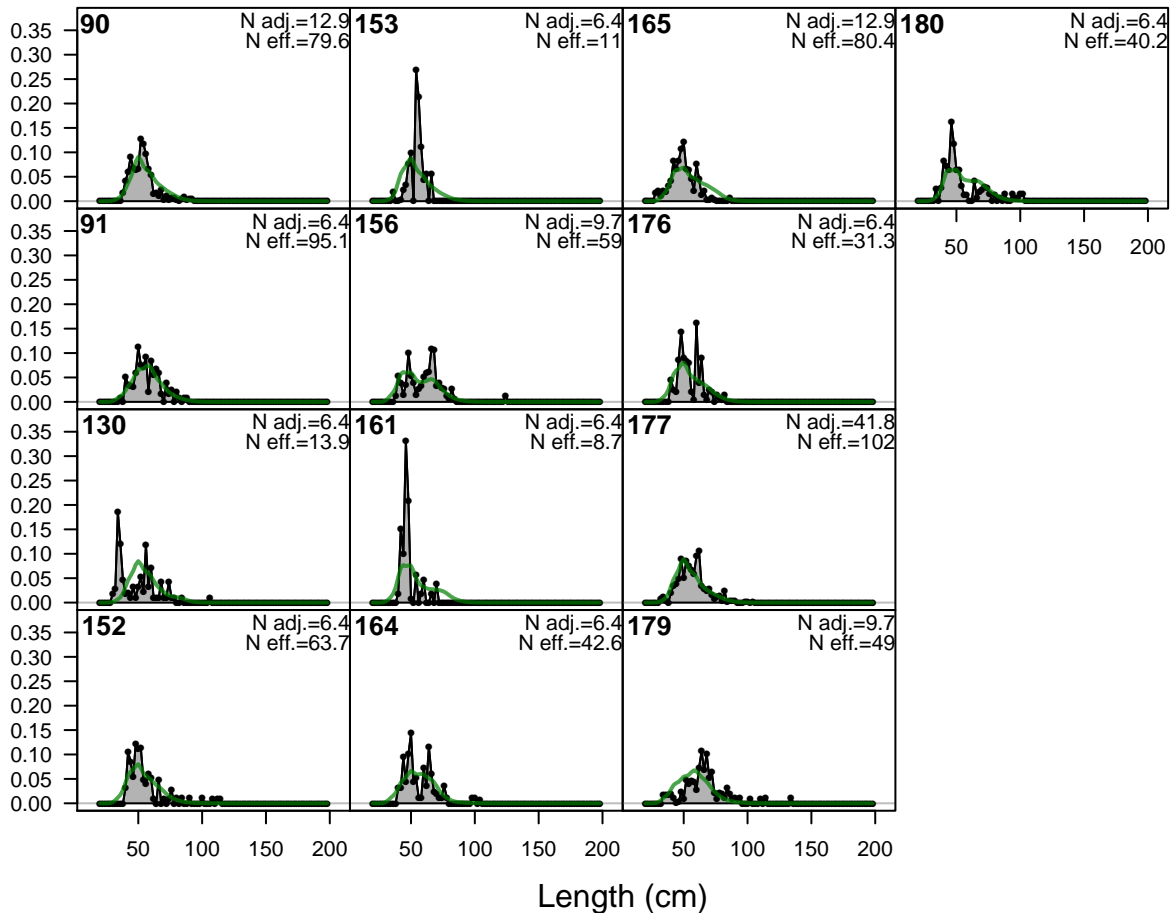


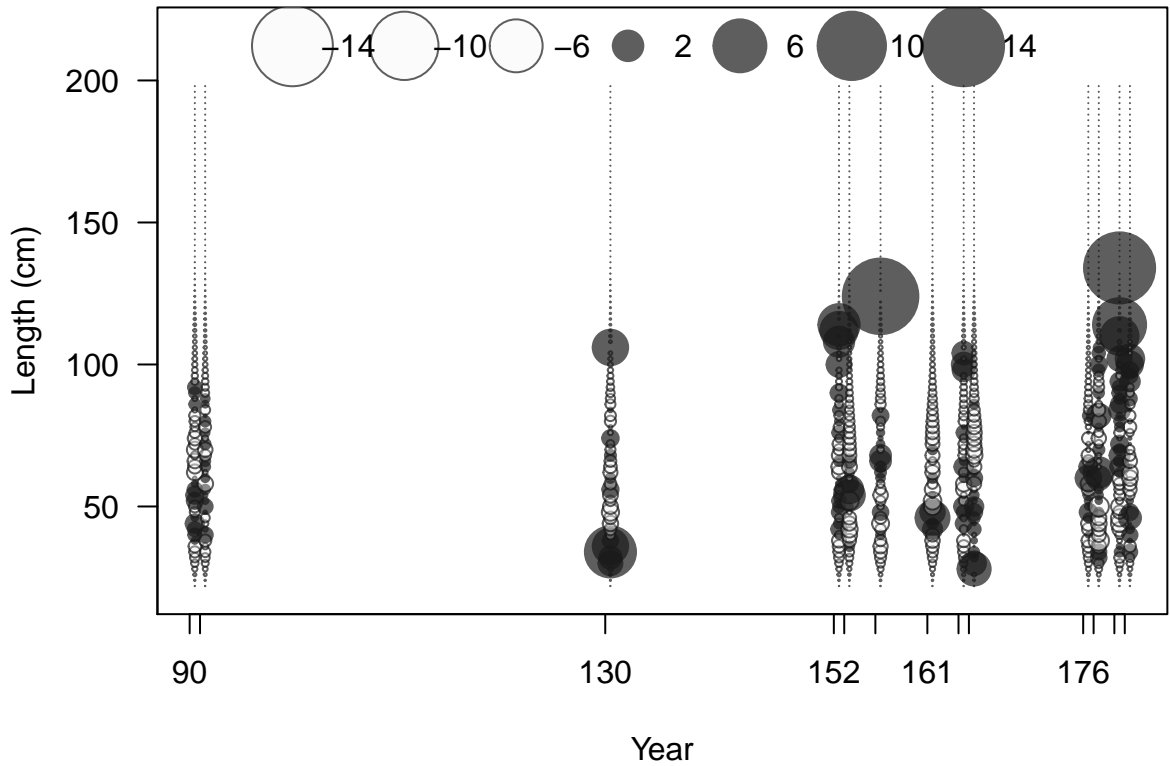


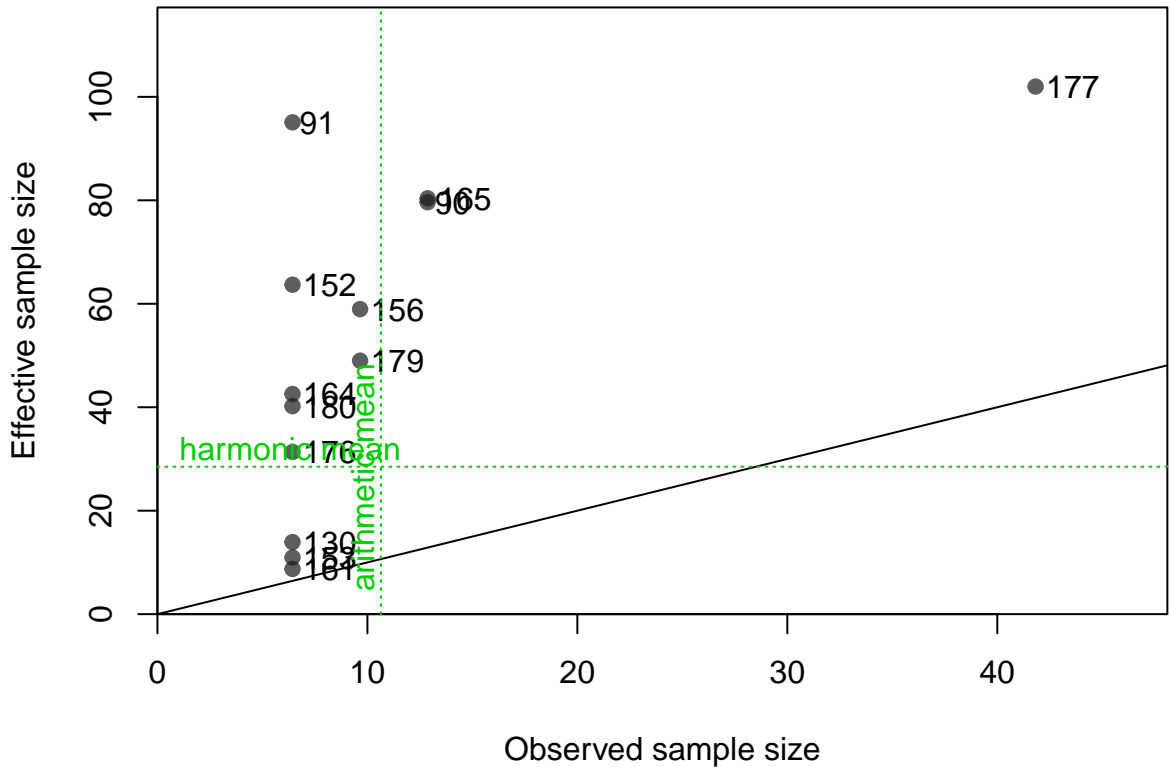
A3-OBJ (whole catch)



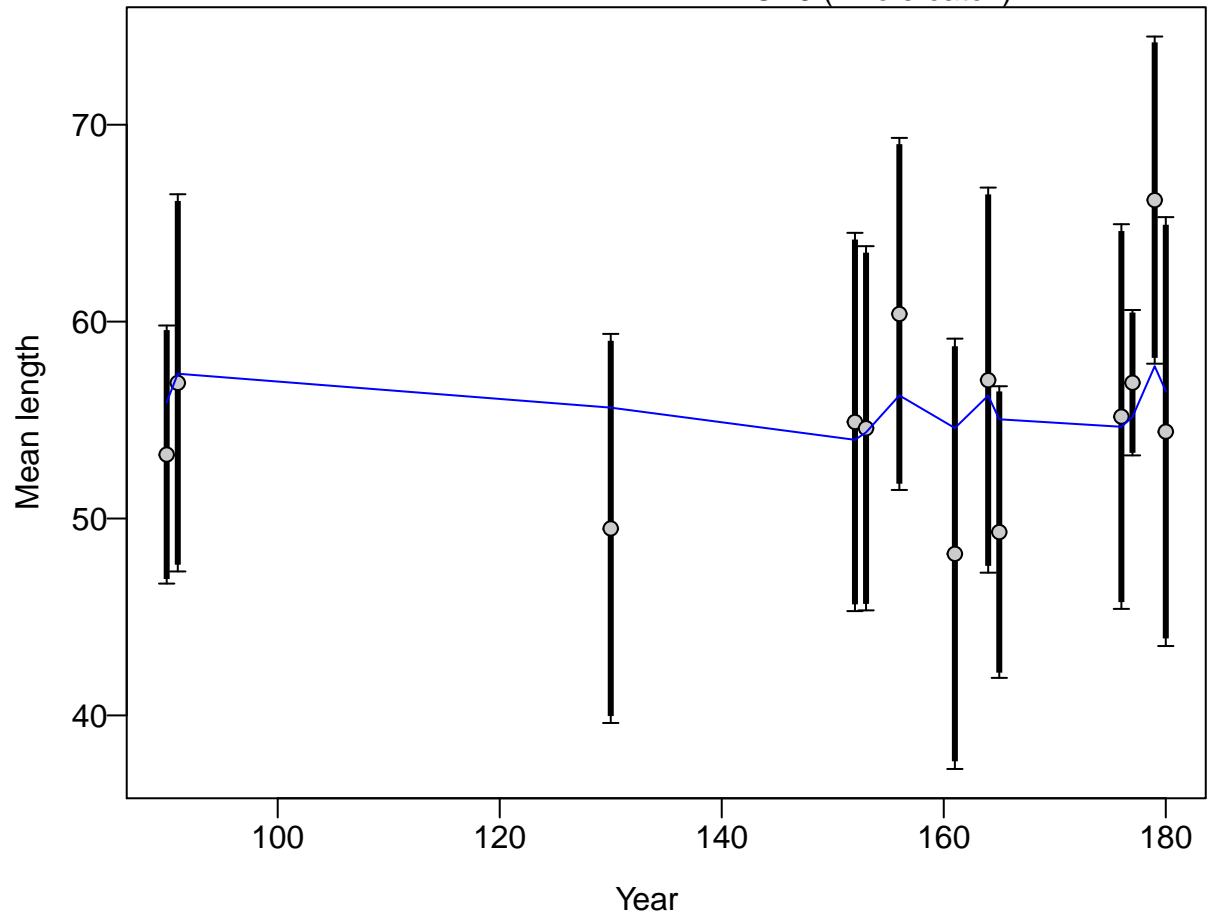
Proportion



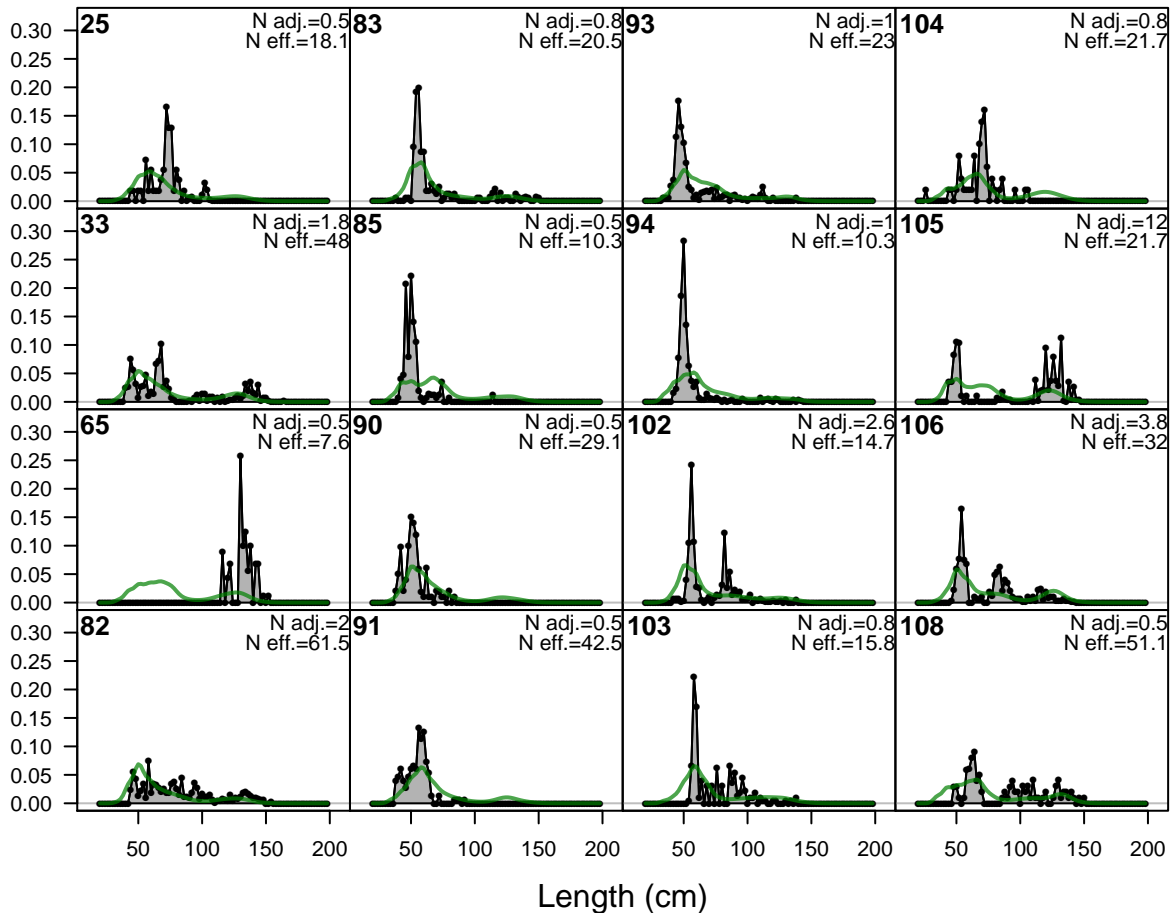




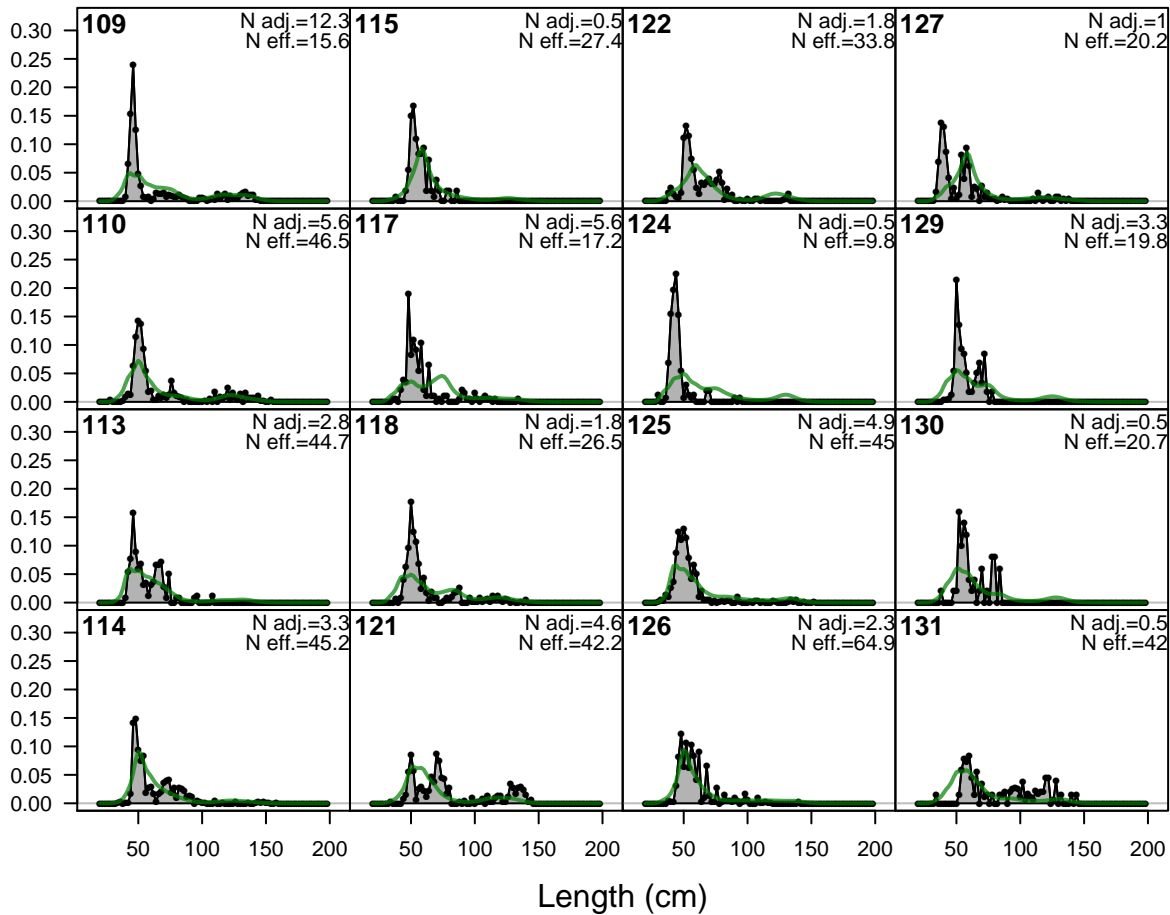
A4-OBJ (whole catch)



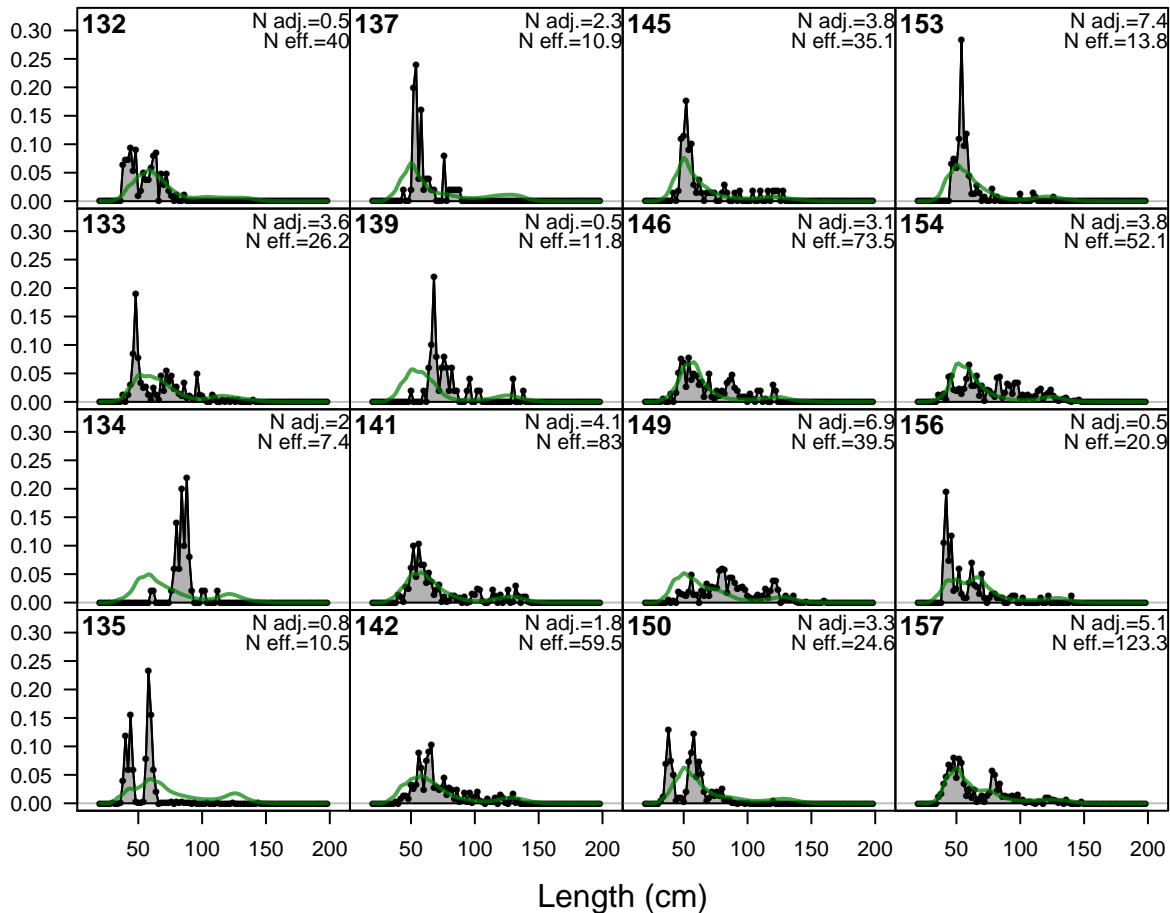
Proportion



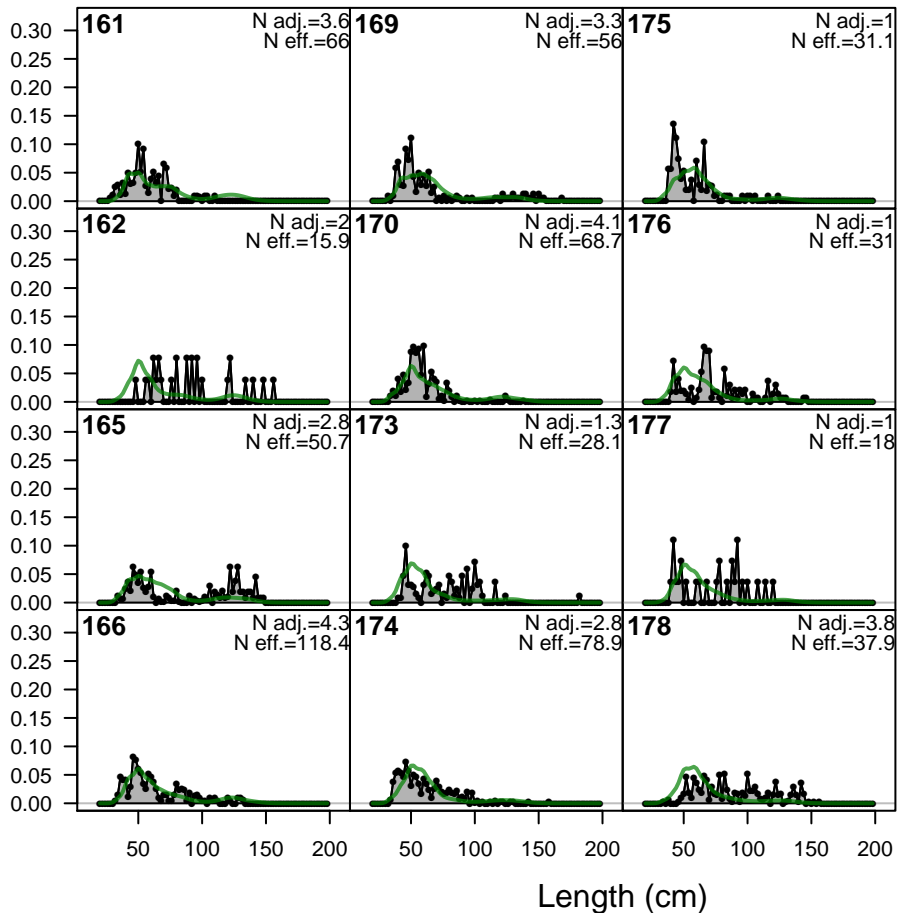
Proportion

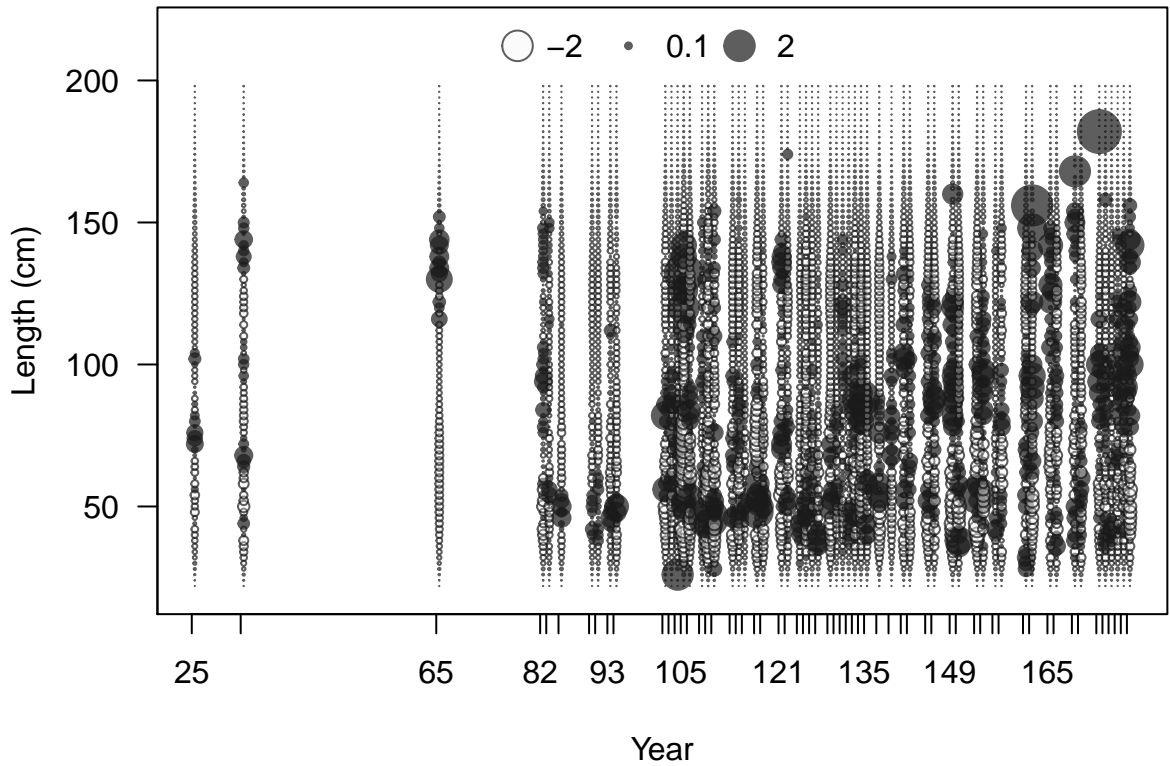


Proportion

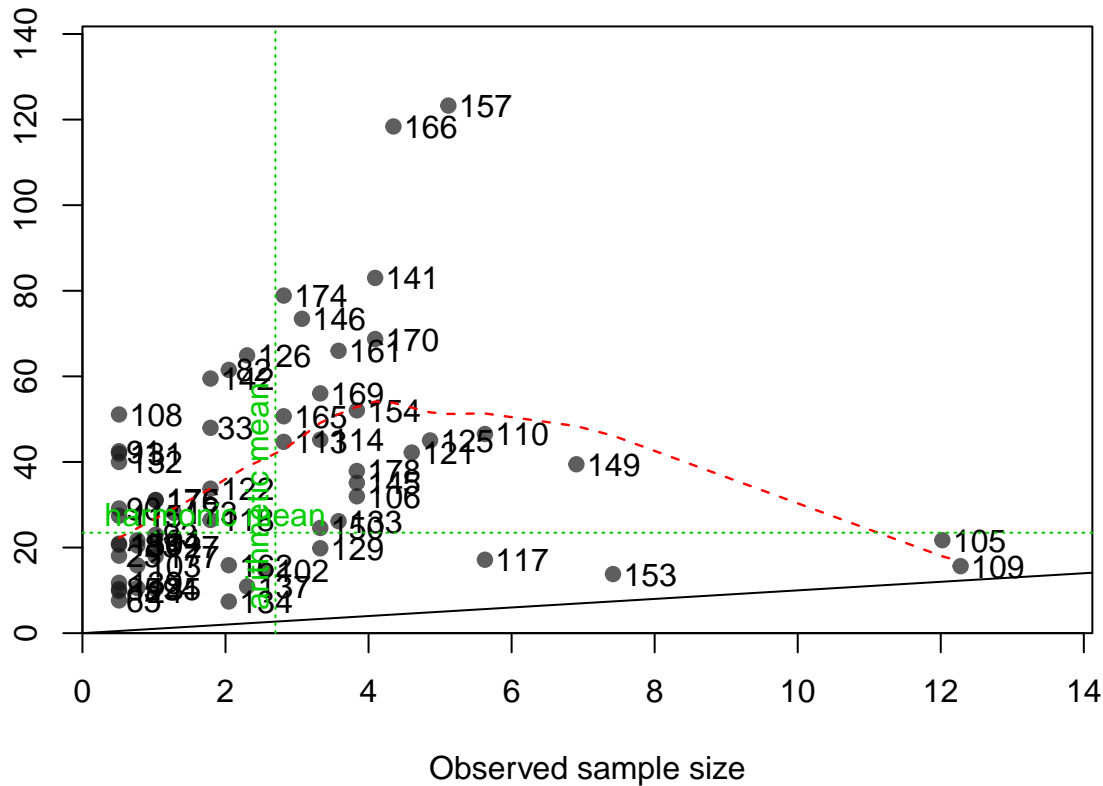


Proportion

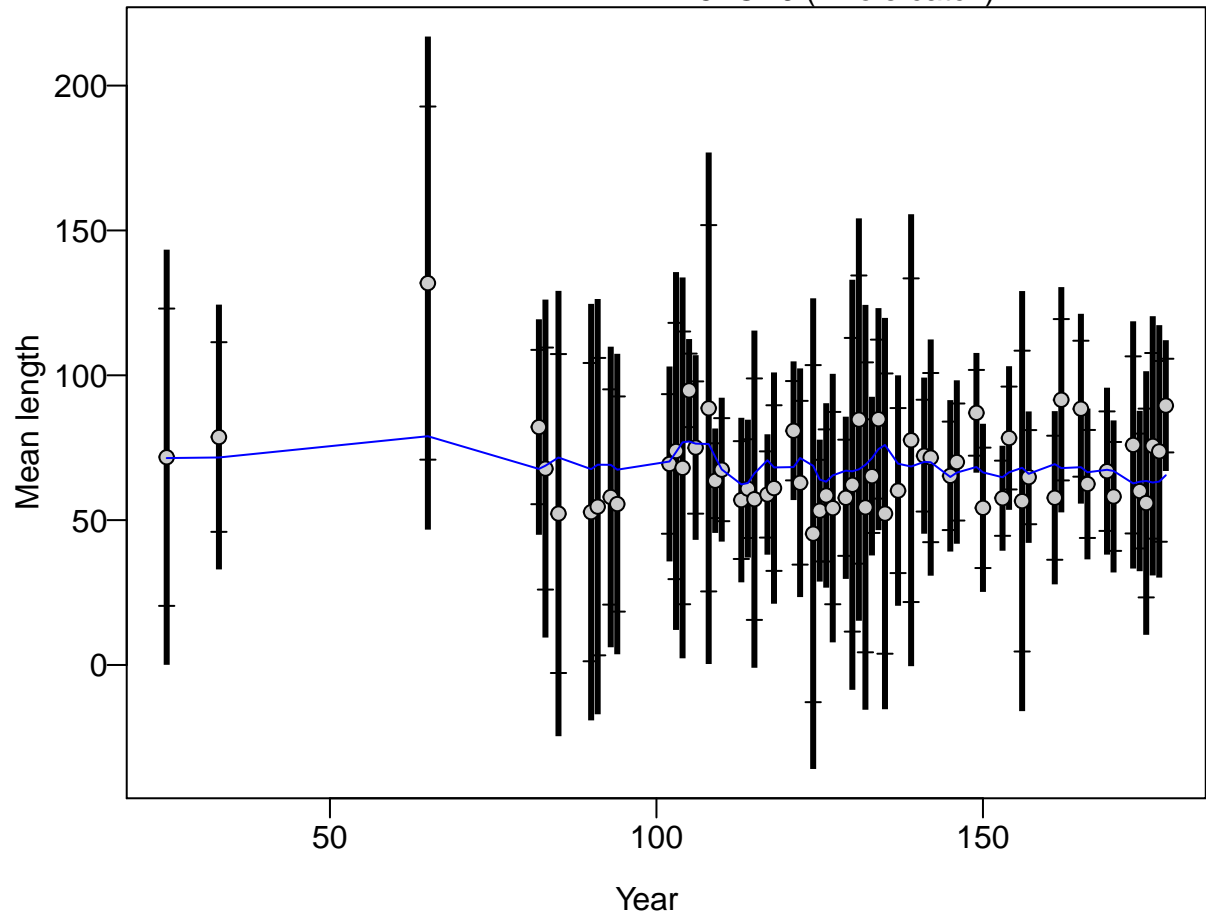




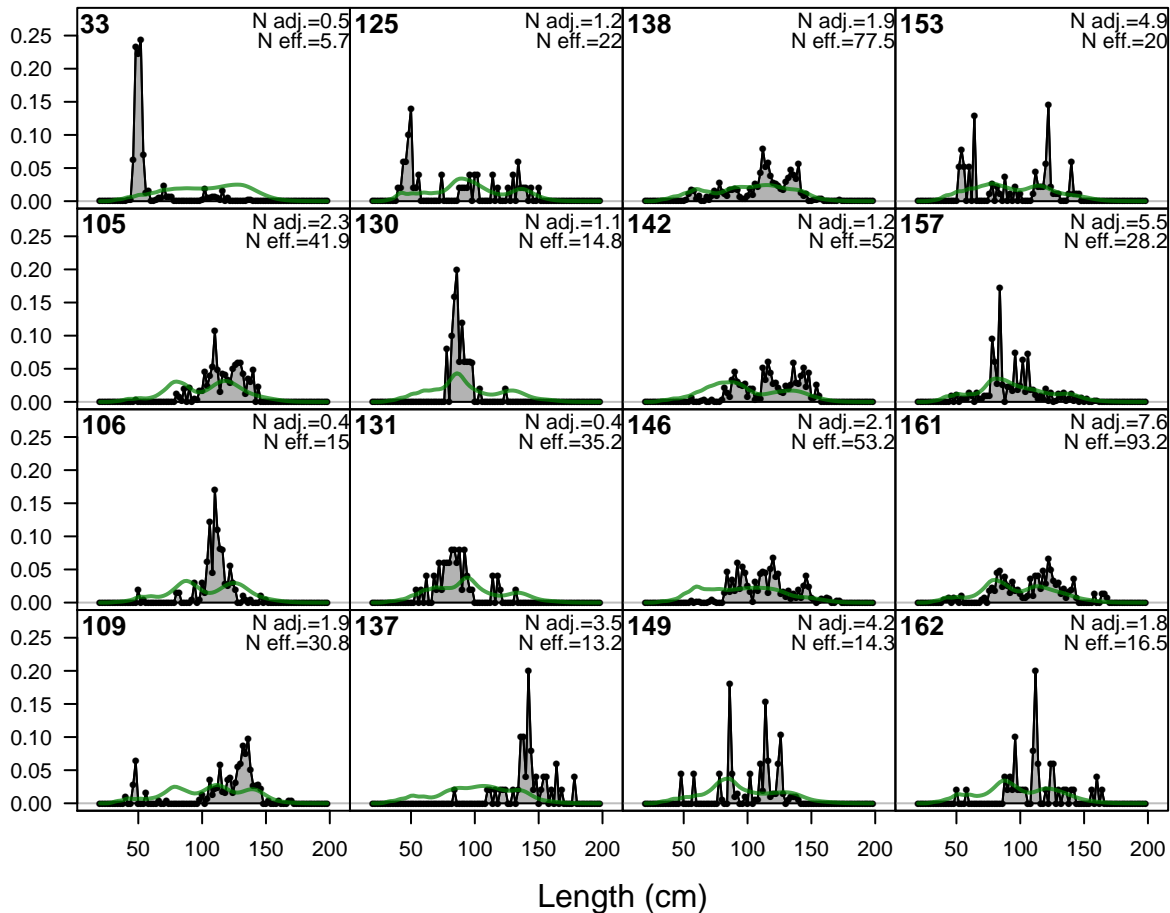
Effective sample size



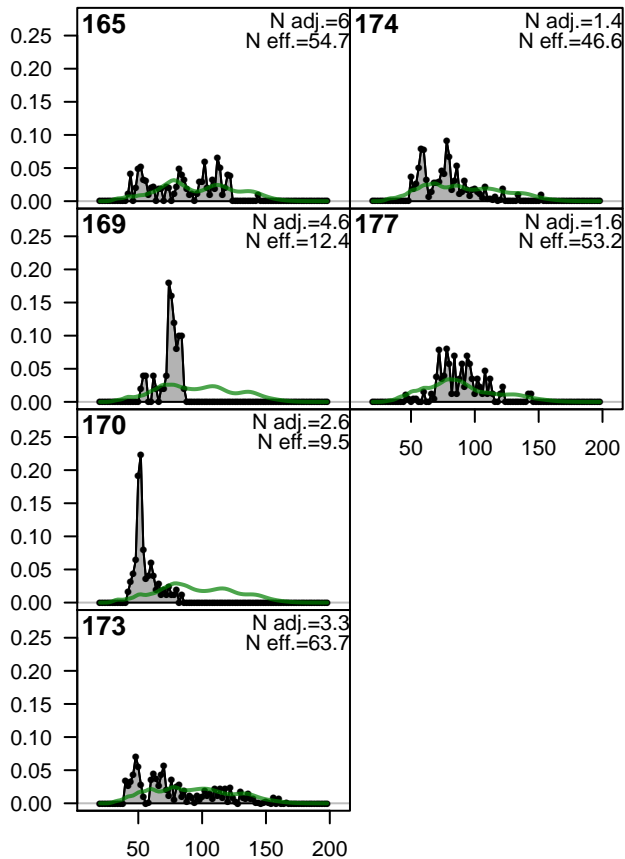
A5-OBJ (whole catch)



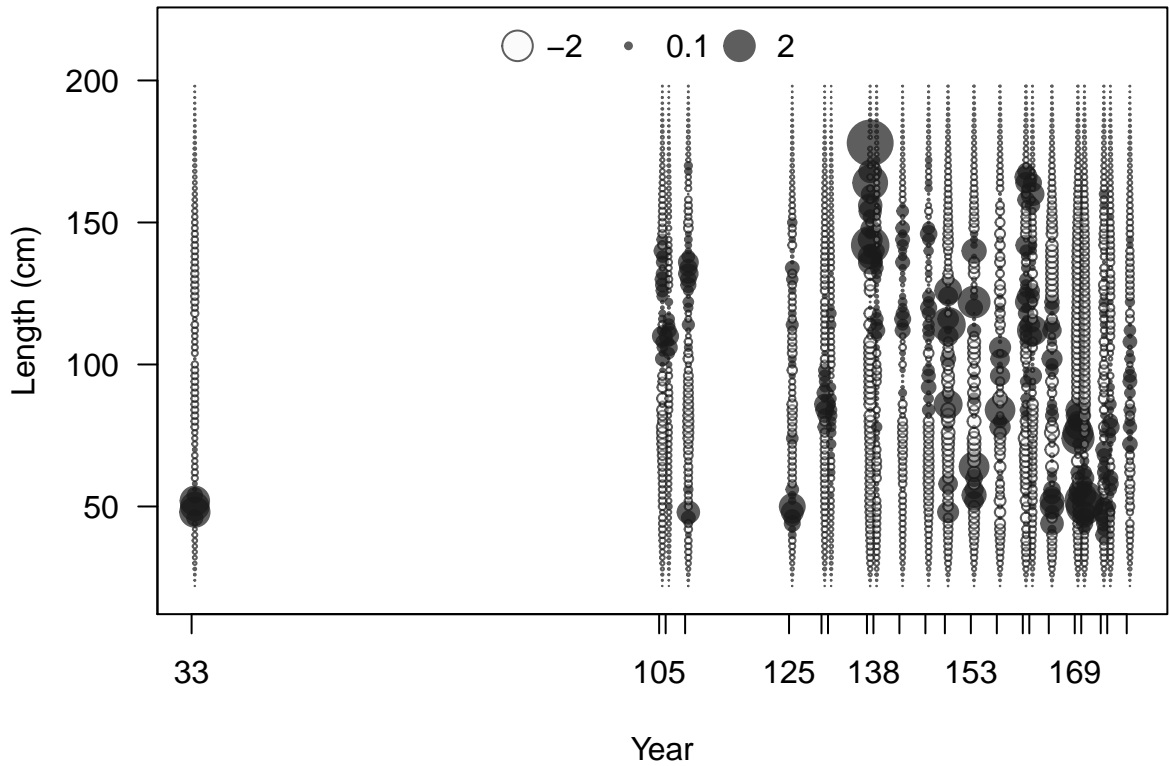
Proportion

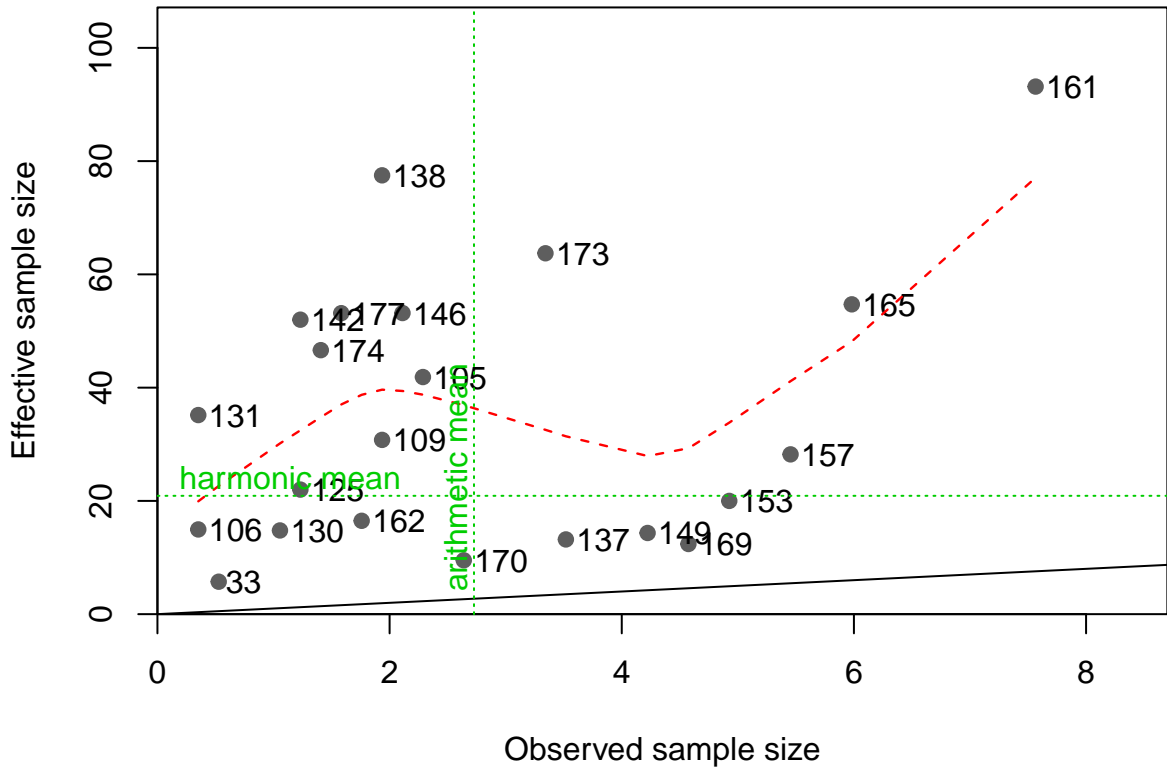


Proportion

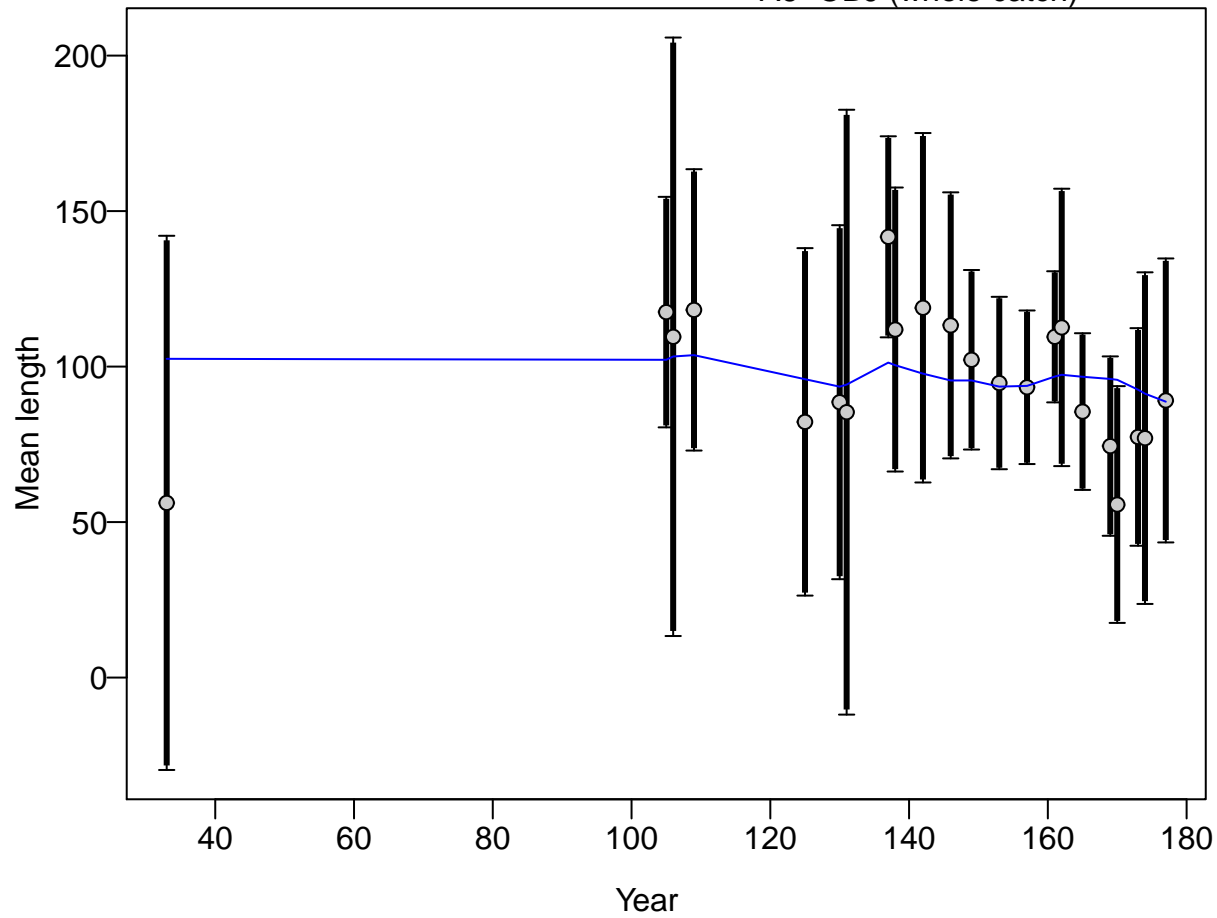


Length (cm)

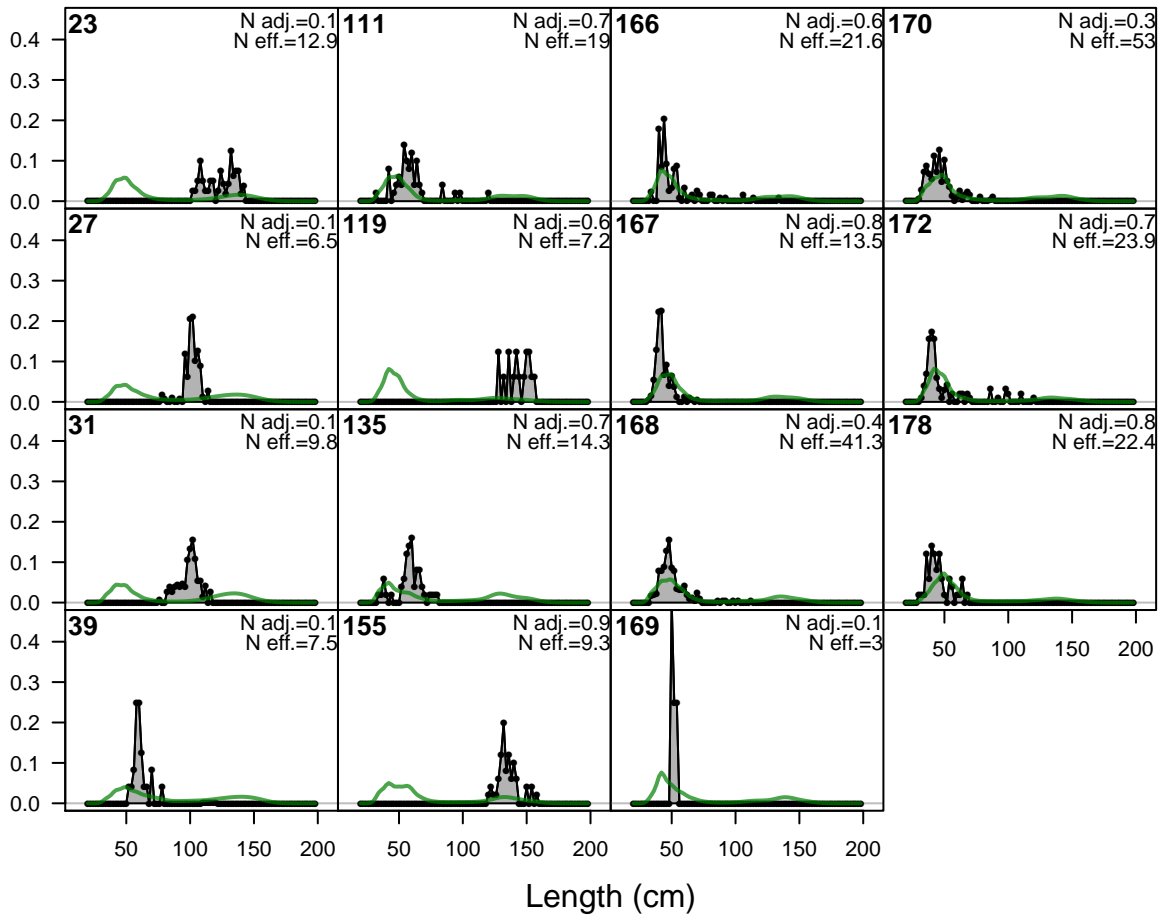


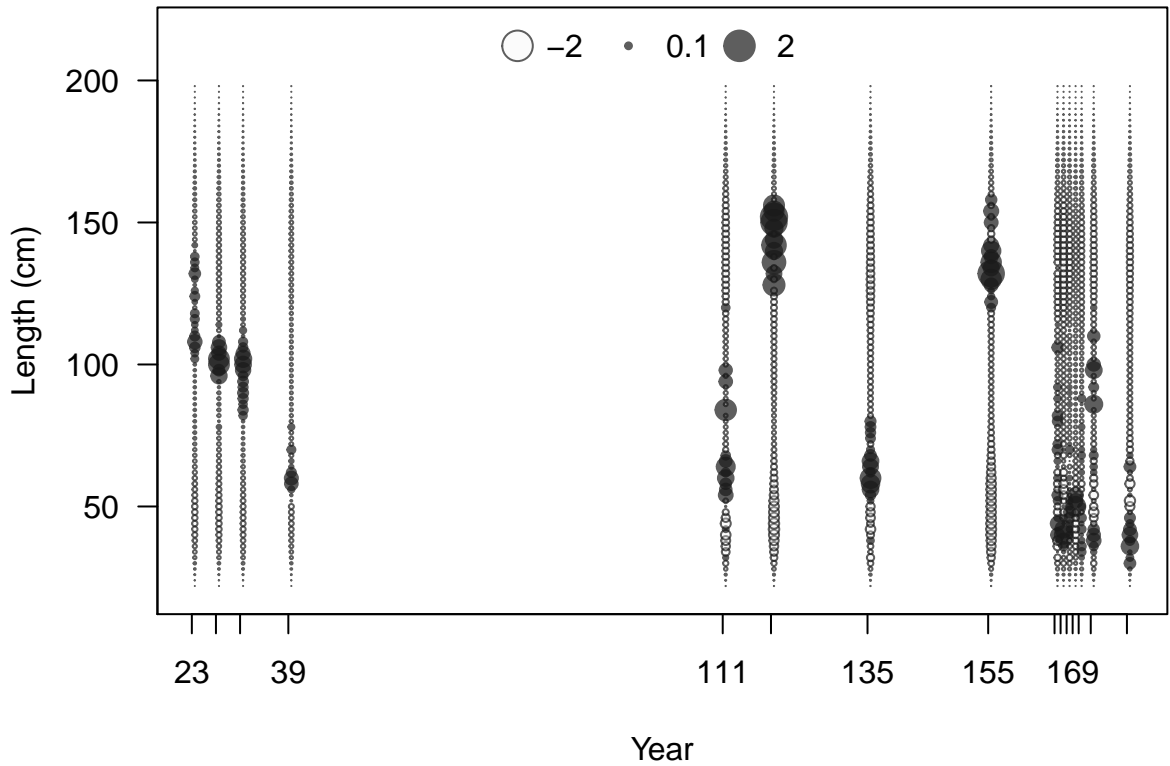


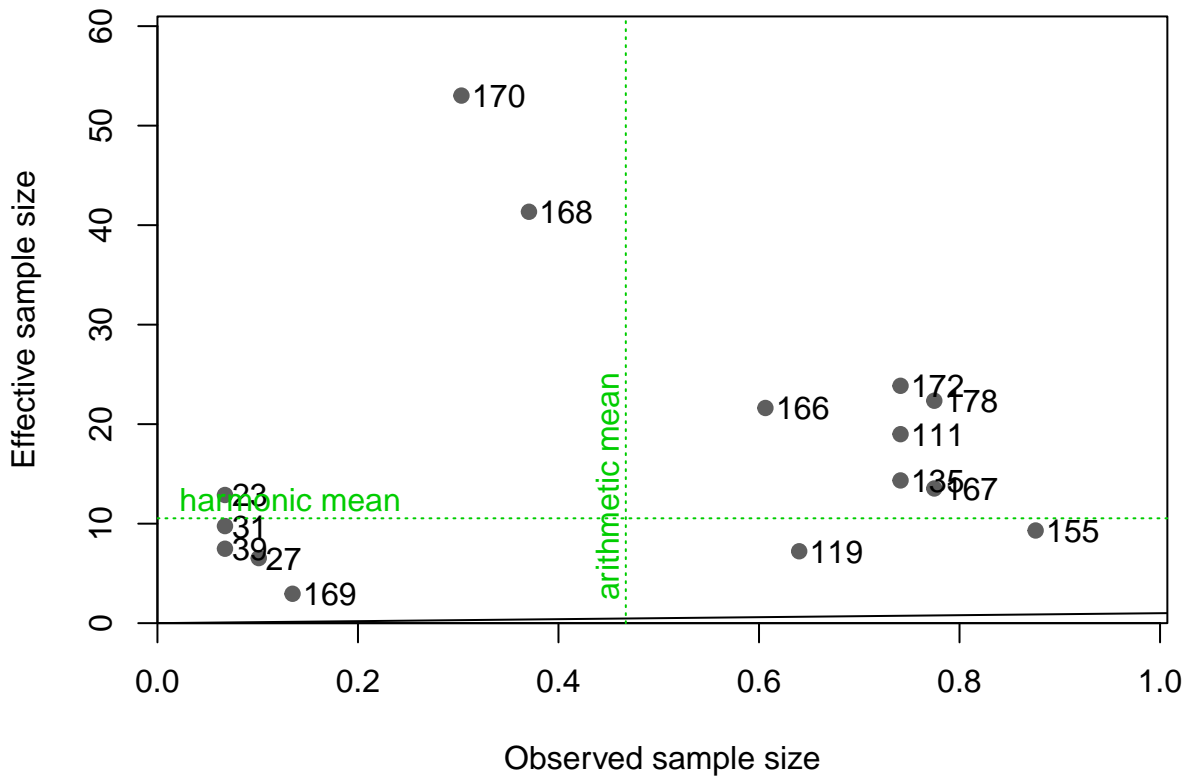
A6-OBJ (whole catch)



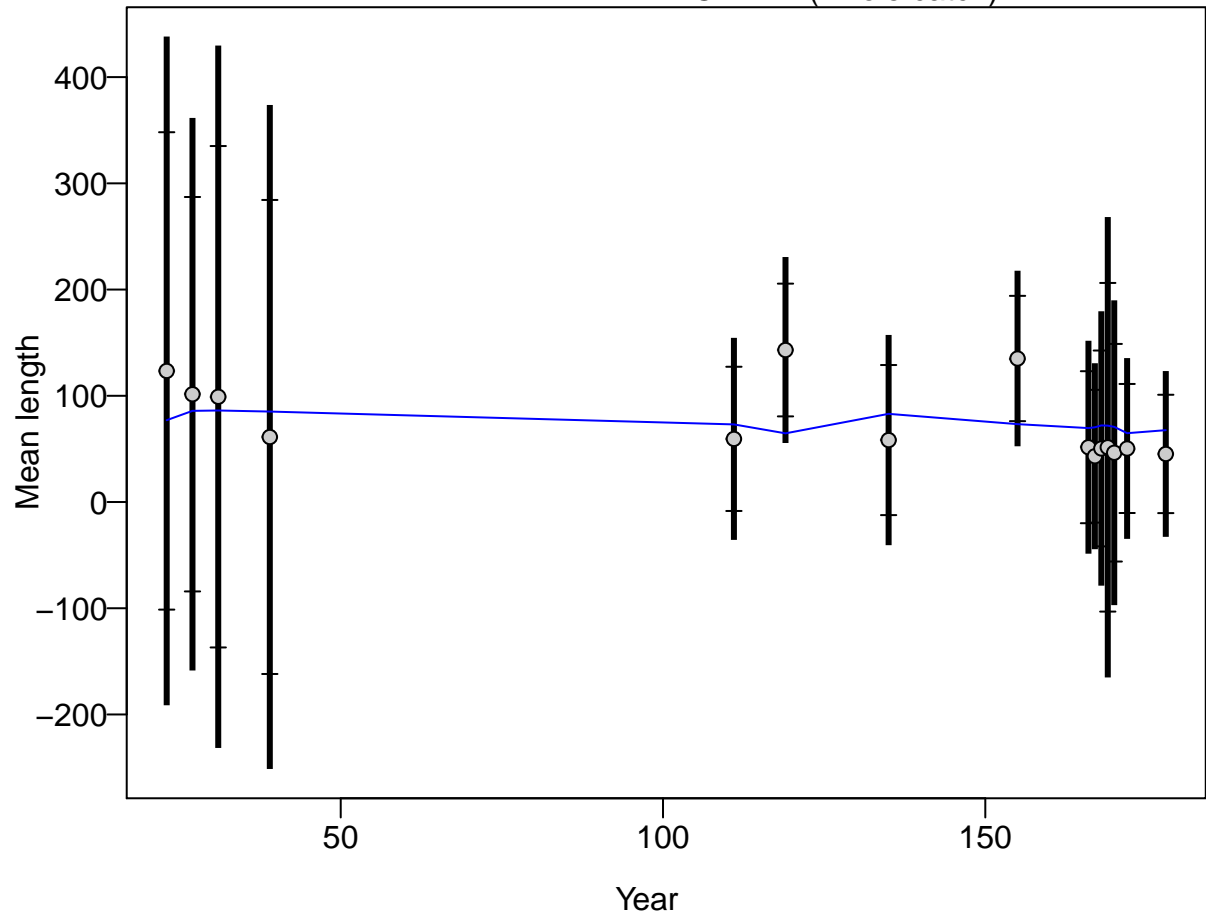
Proportion



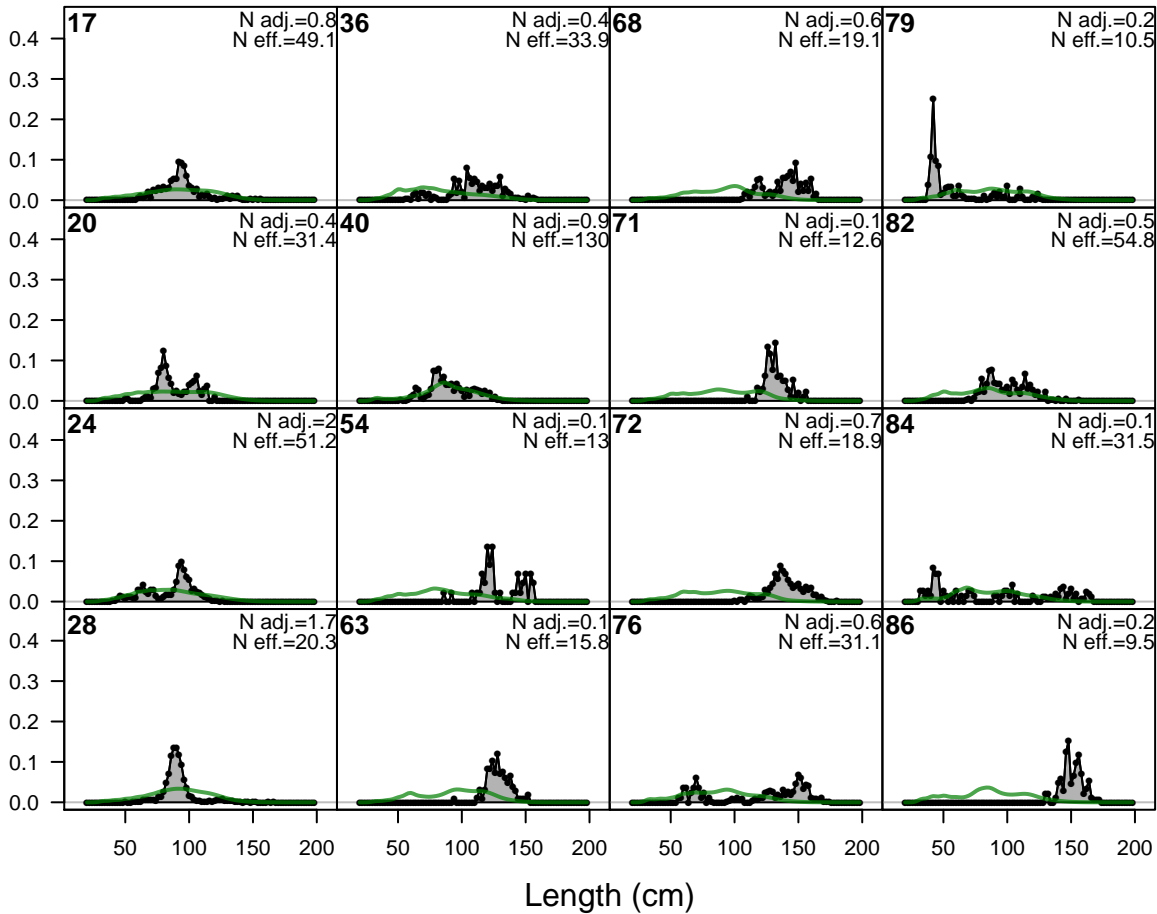




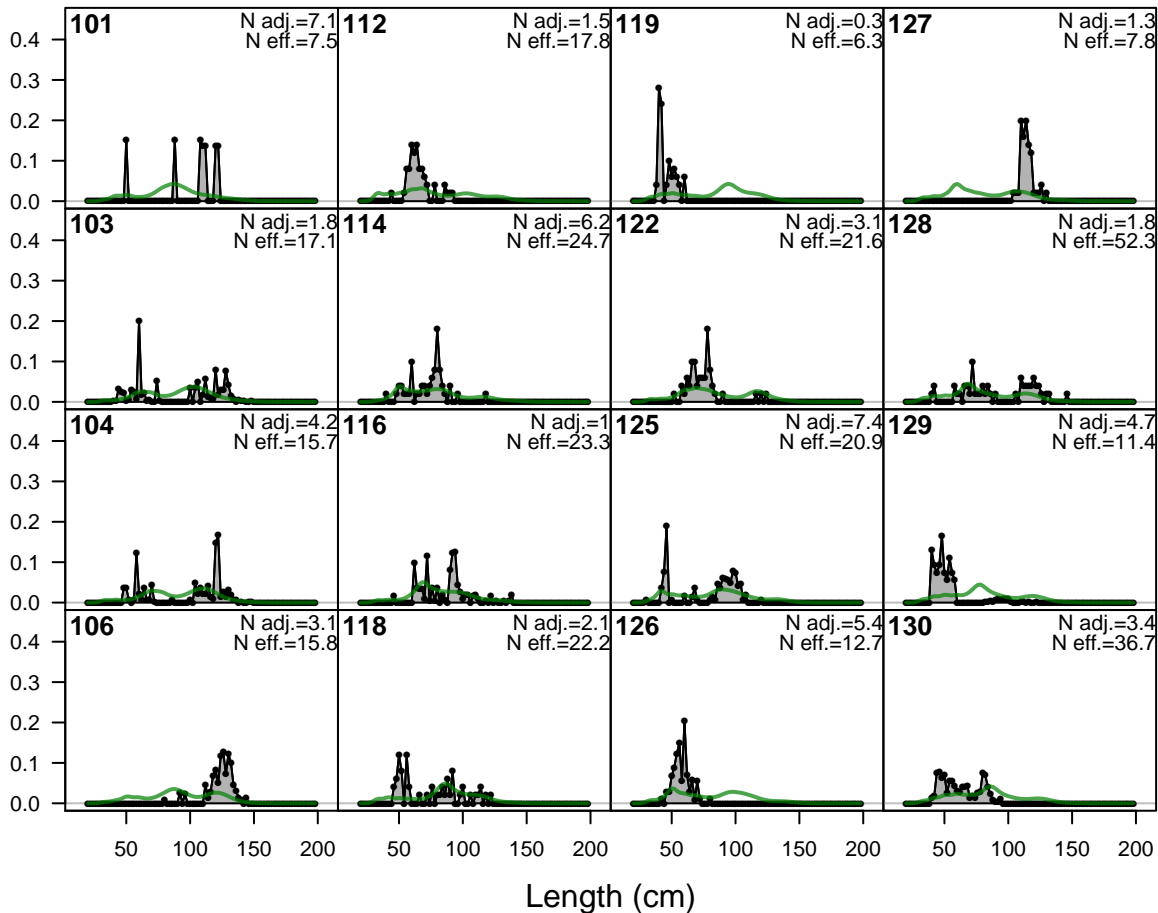
A2-NOADEL (whole catch)



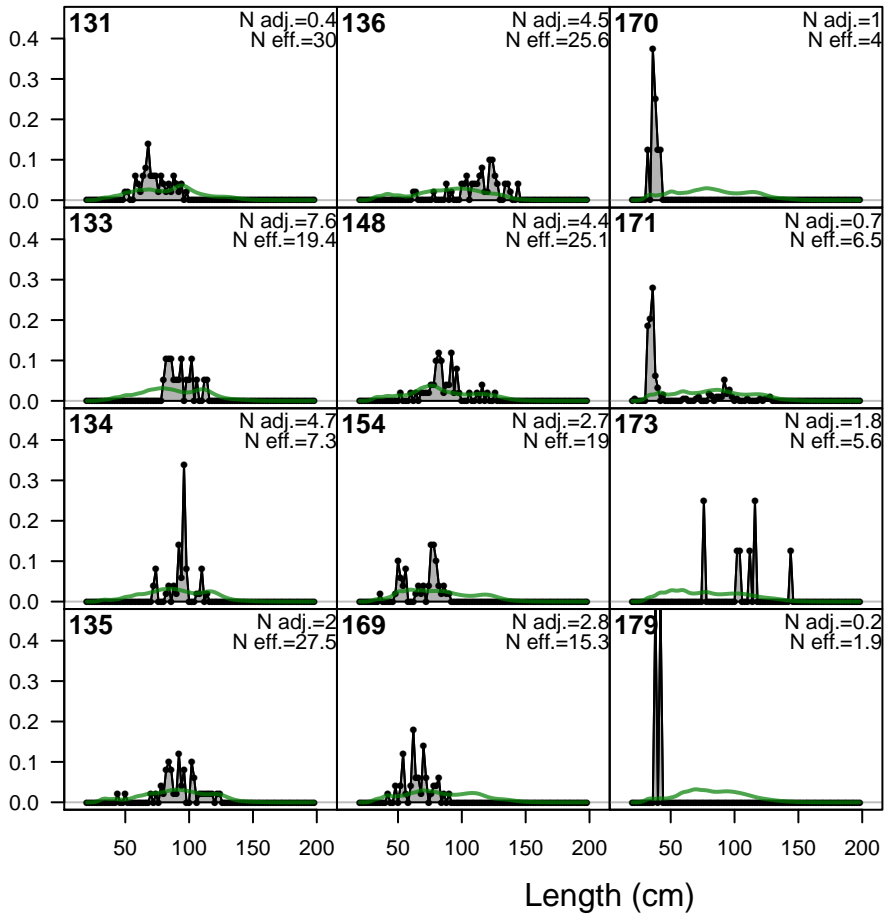
Proportion

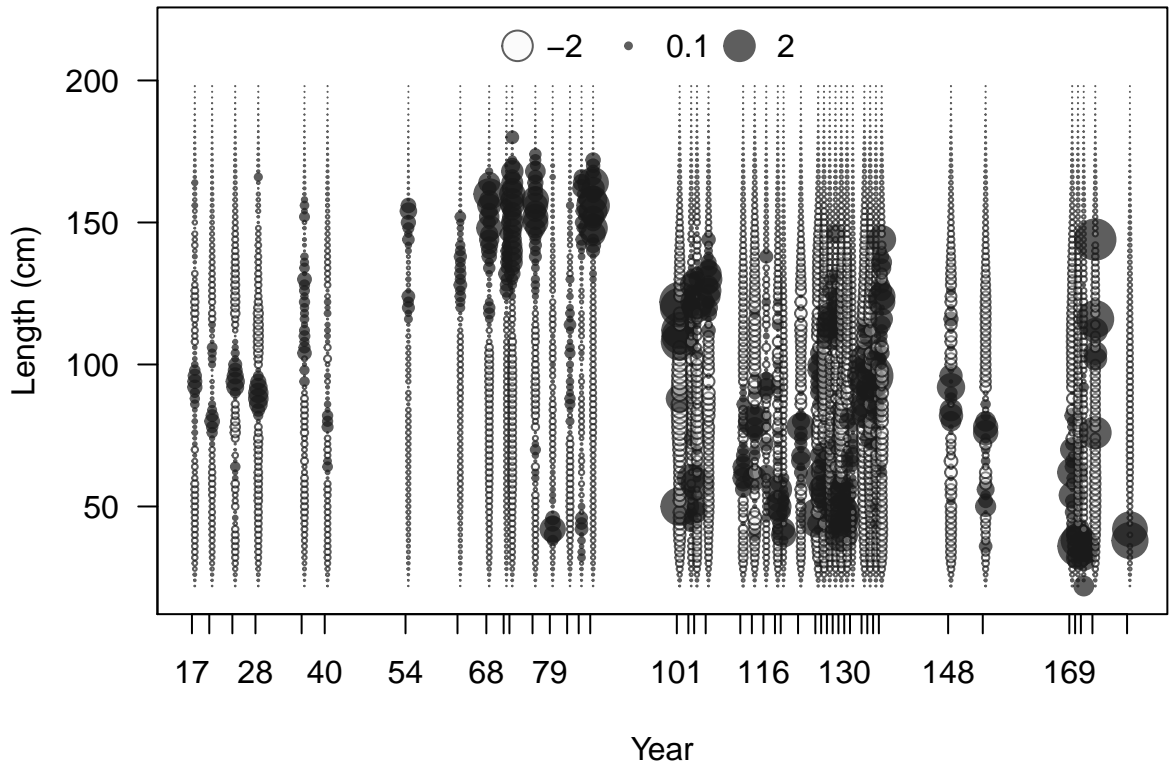


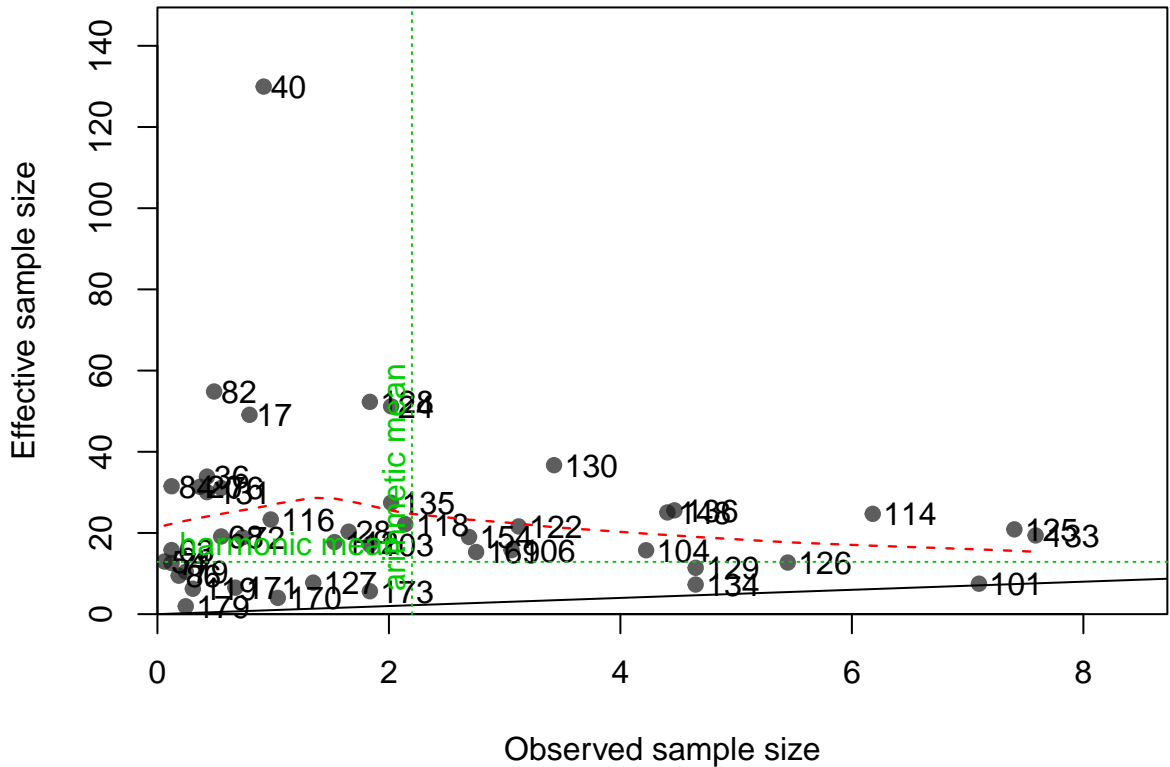
Proportion



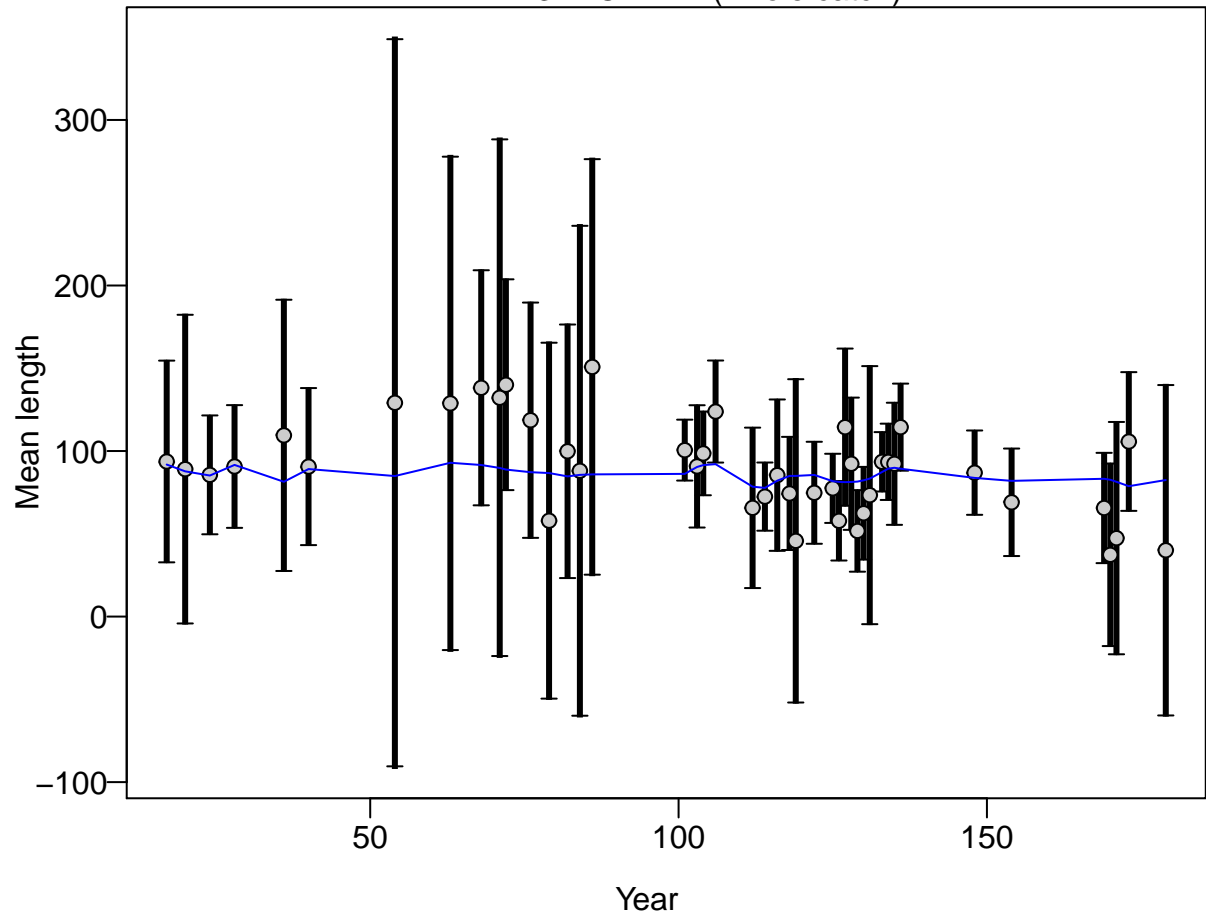
Proportion

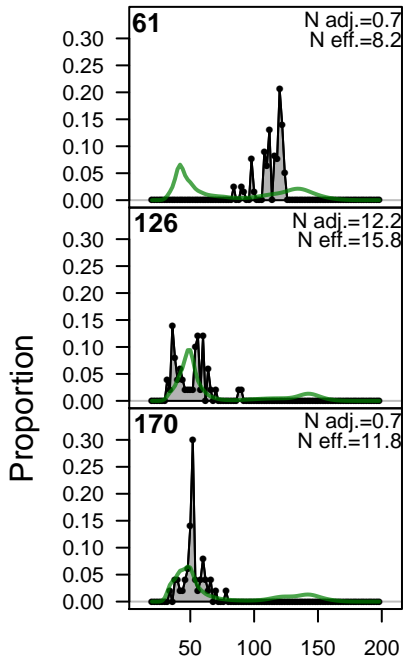




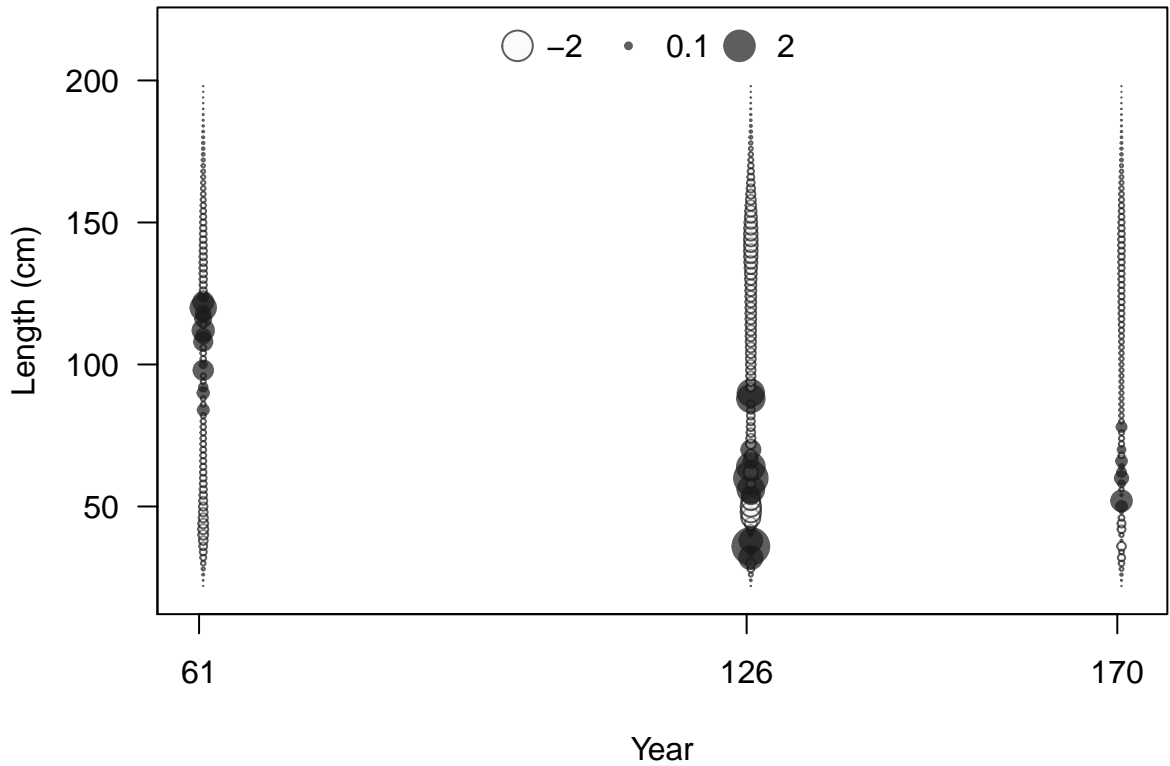


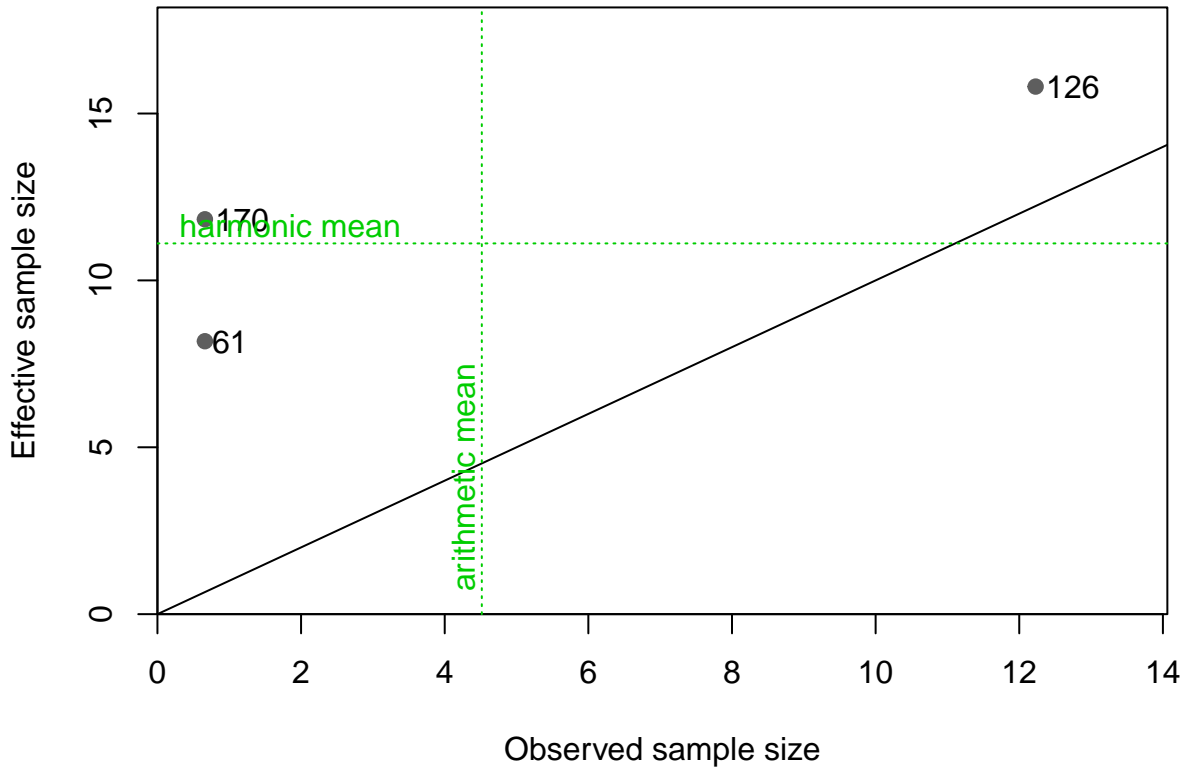
A3-NOADEL (whole catch)



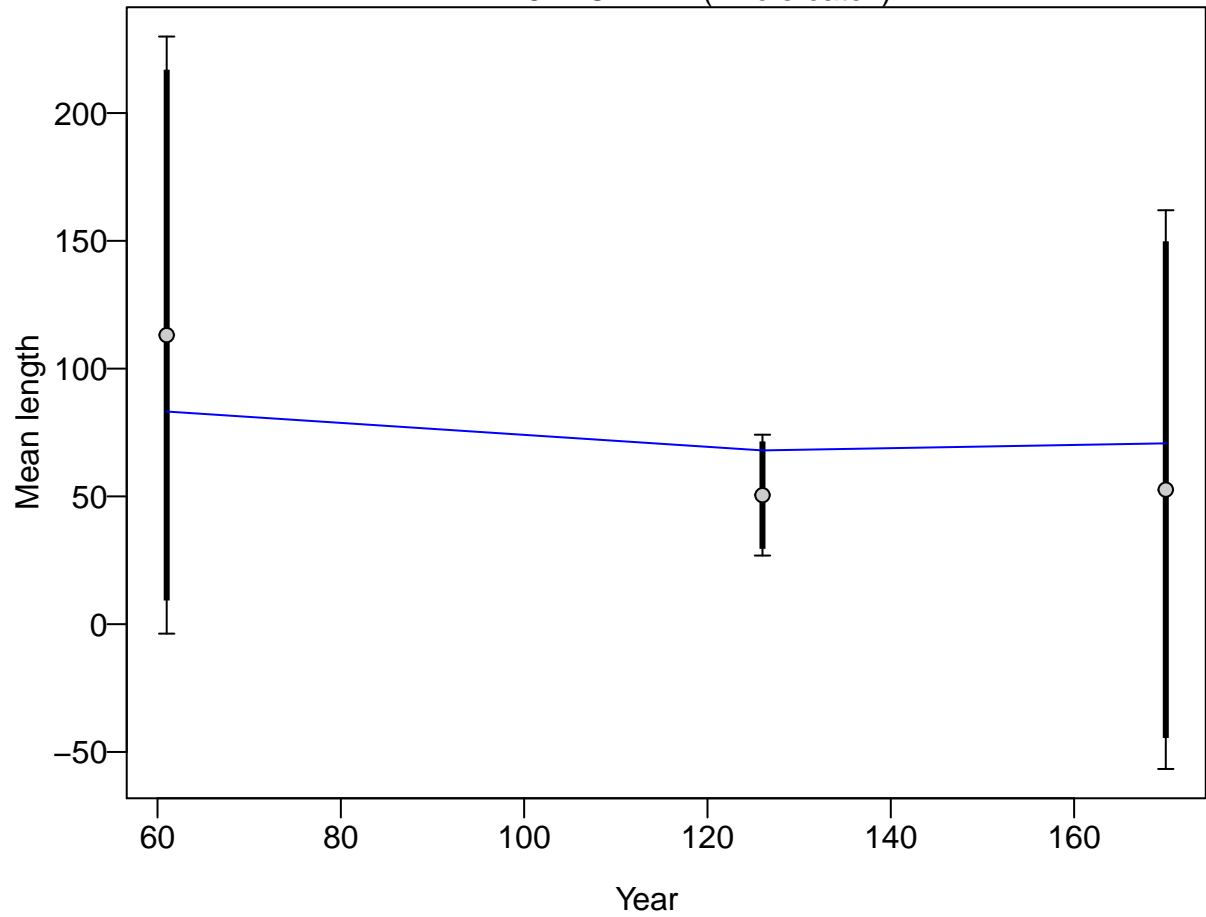


Length (cm)

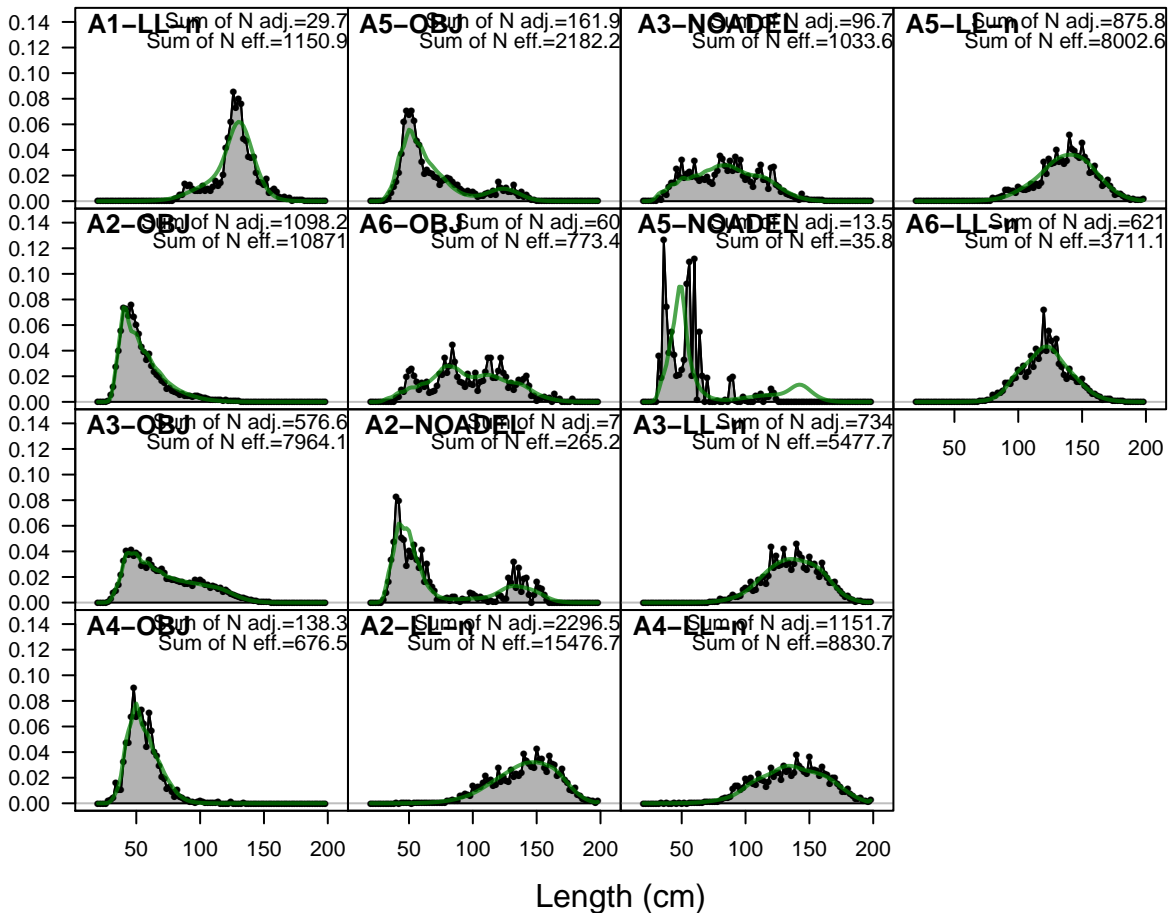


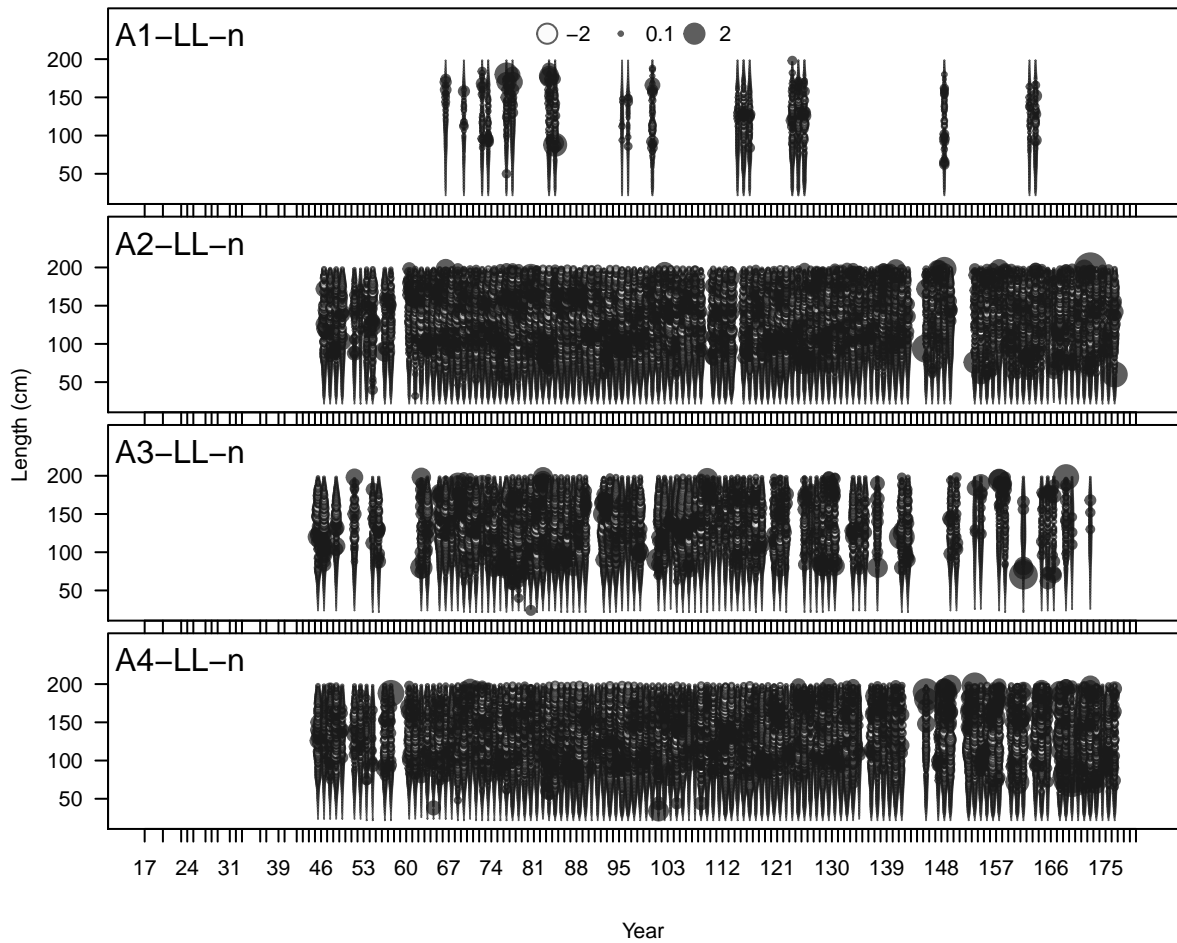


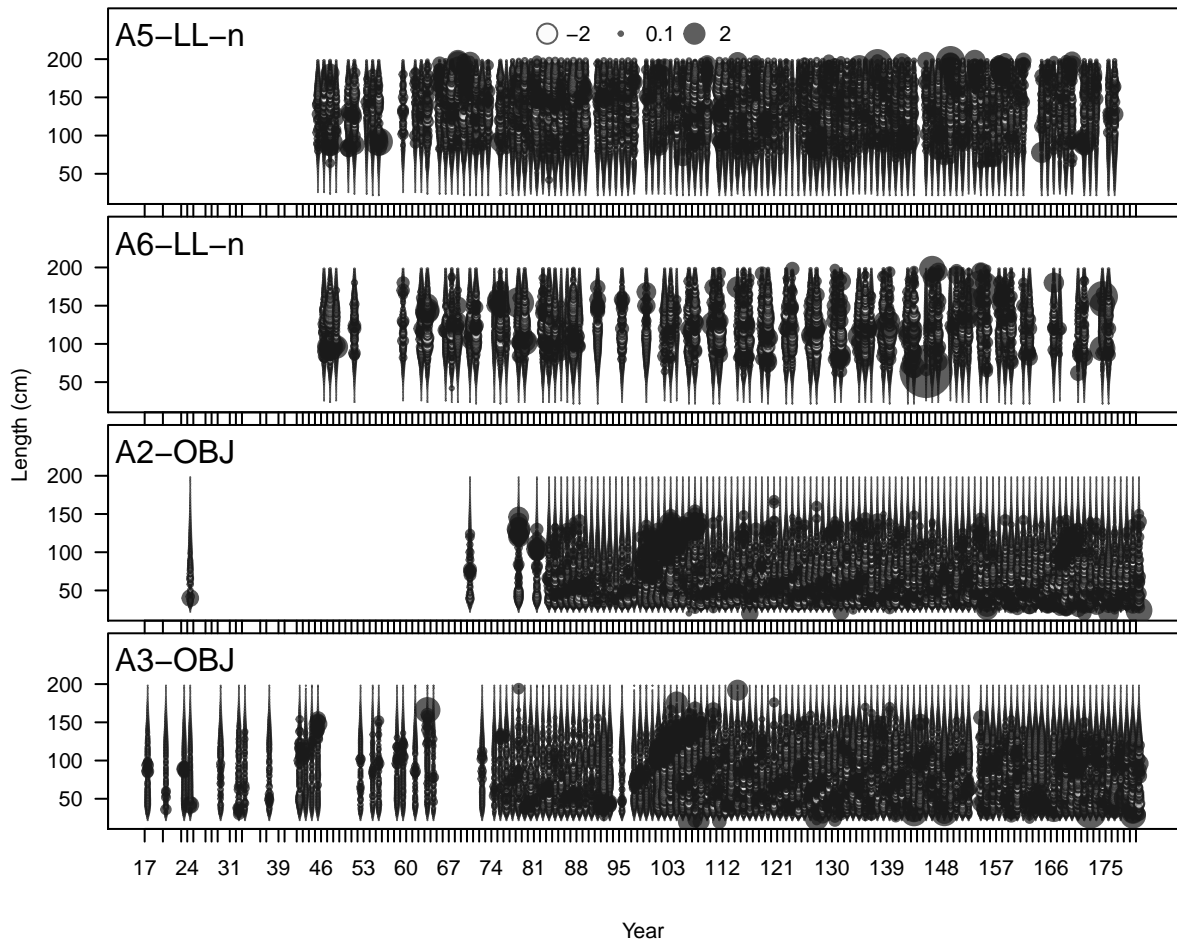
A5-NOADEL (whole catch)

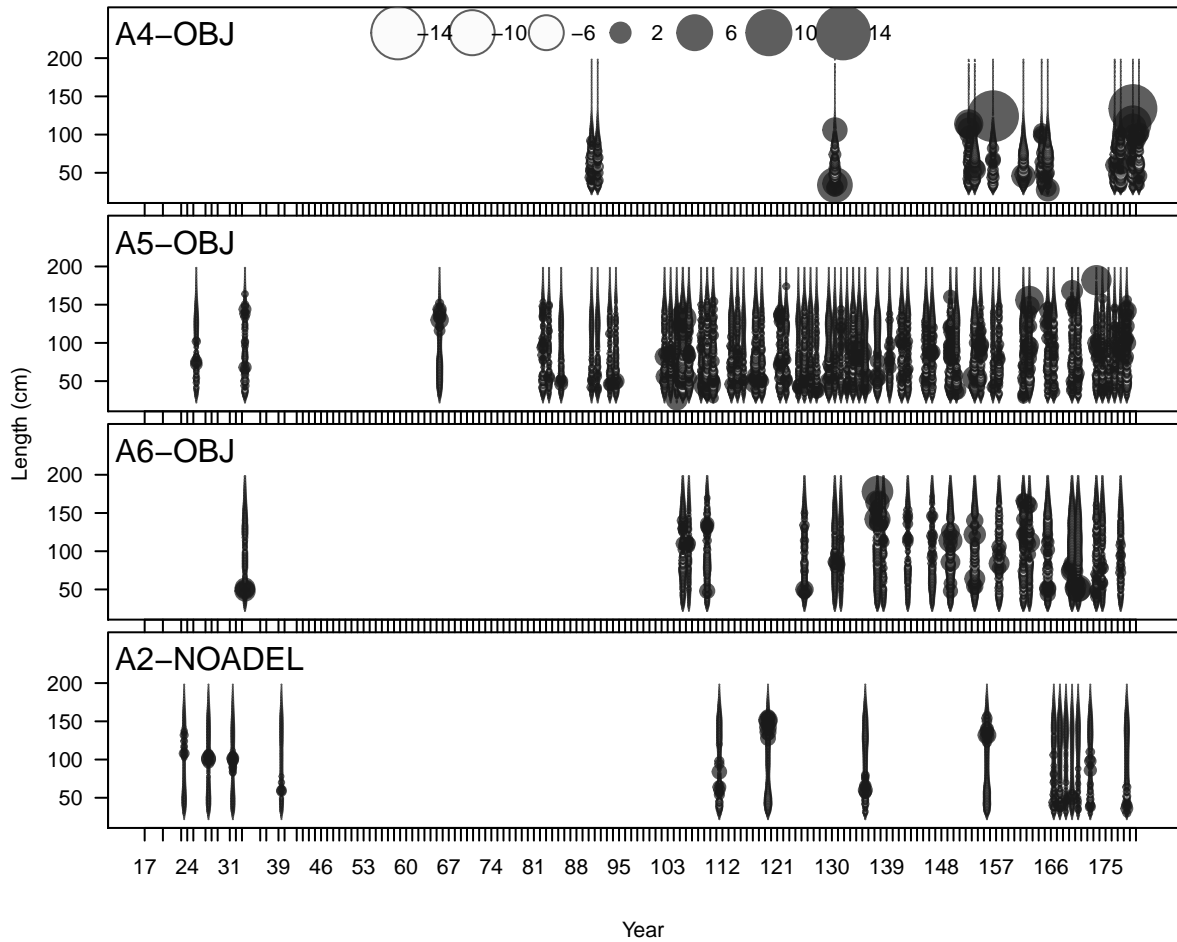


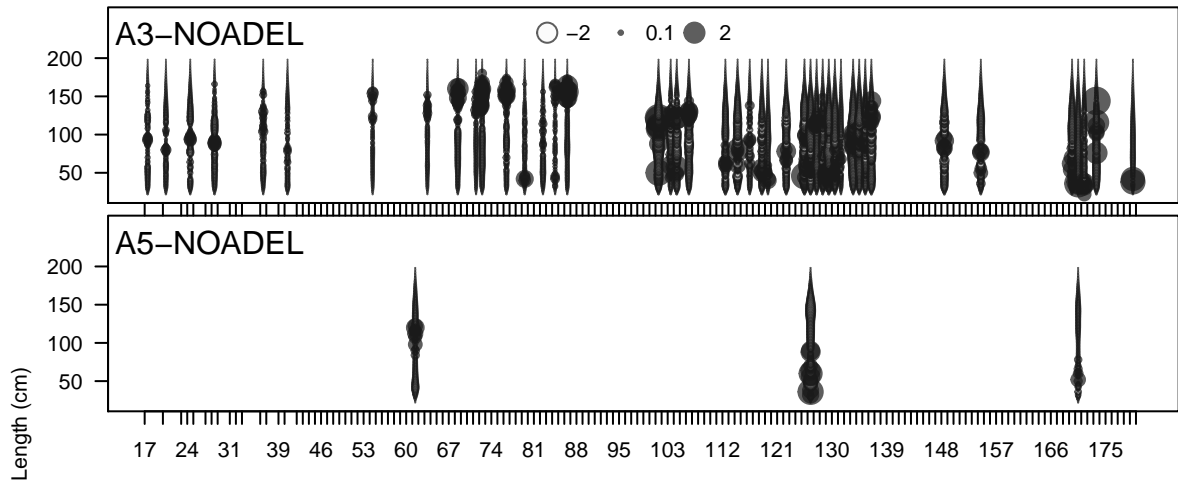
Proportion





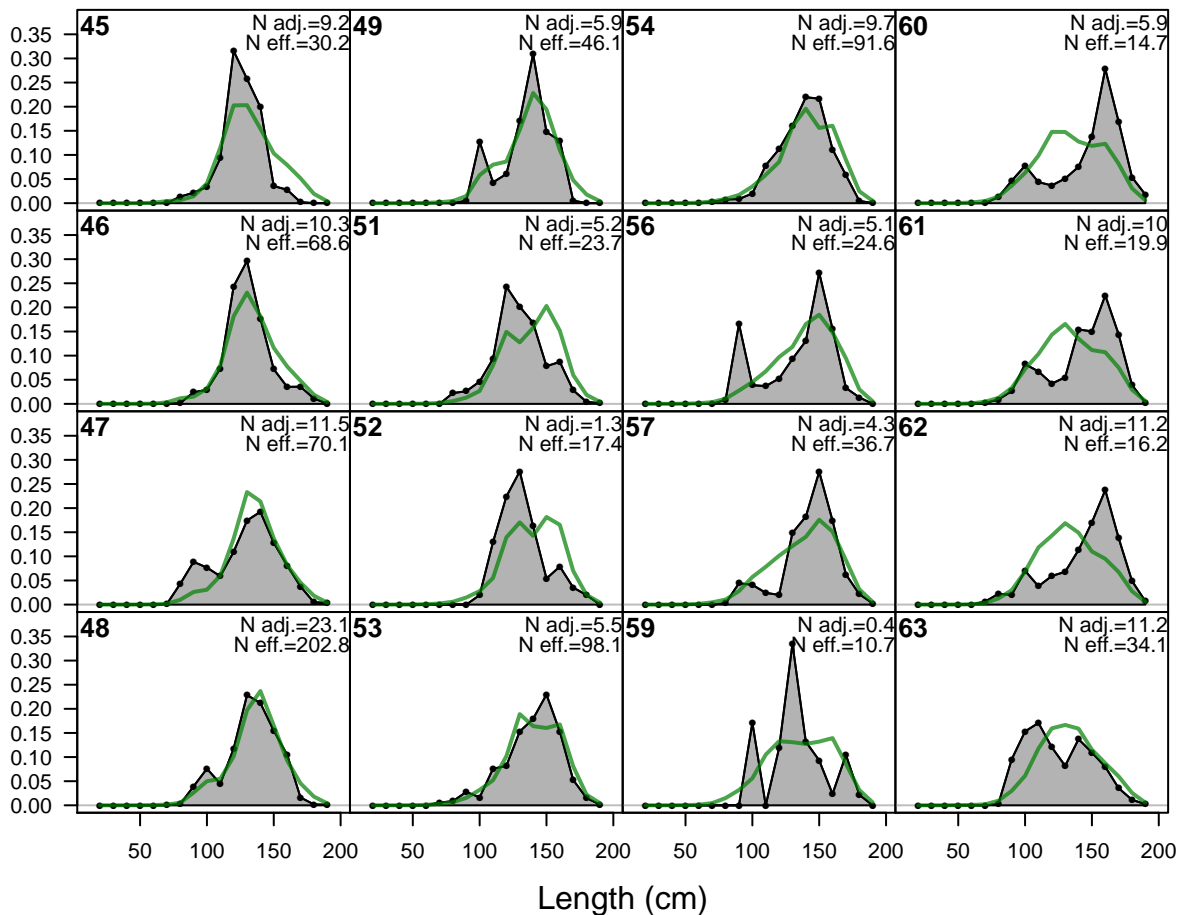




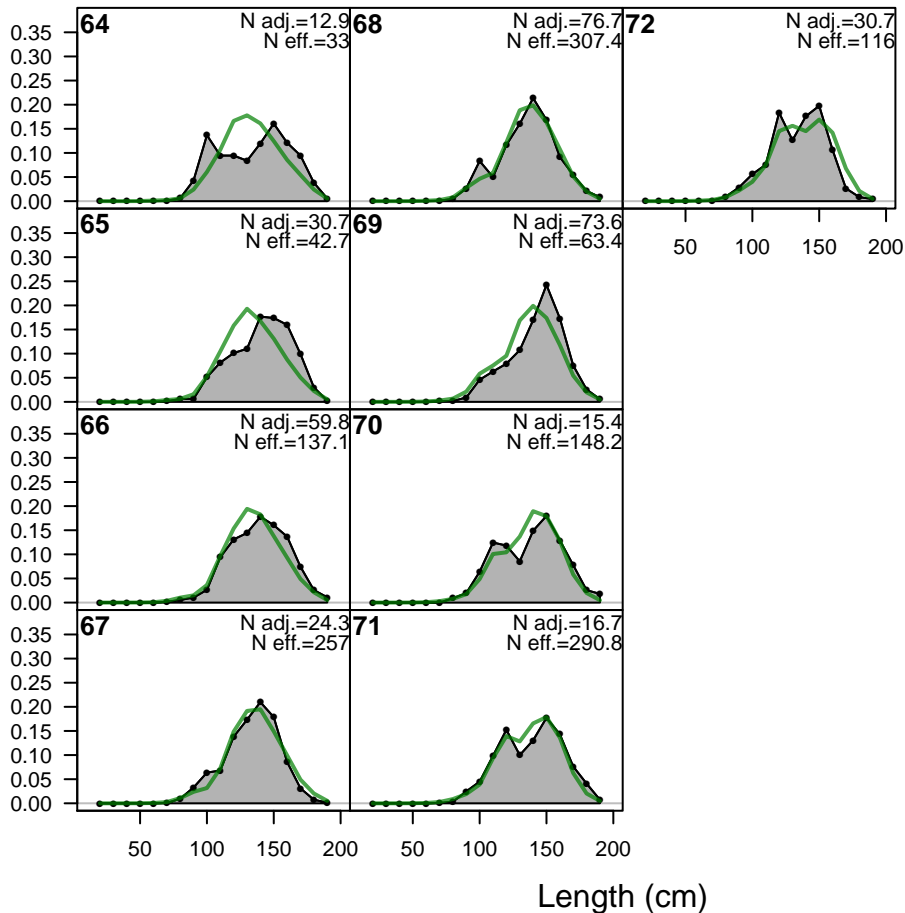


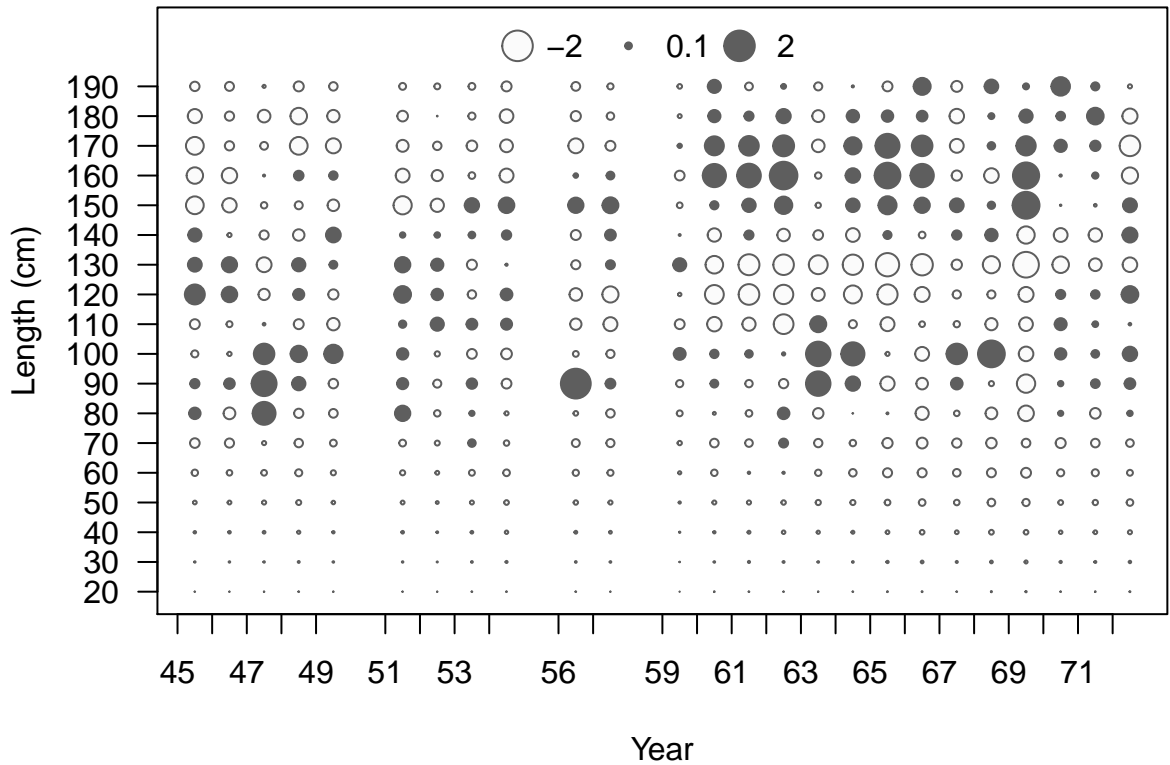
Year

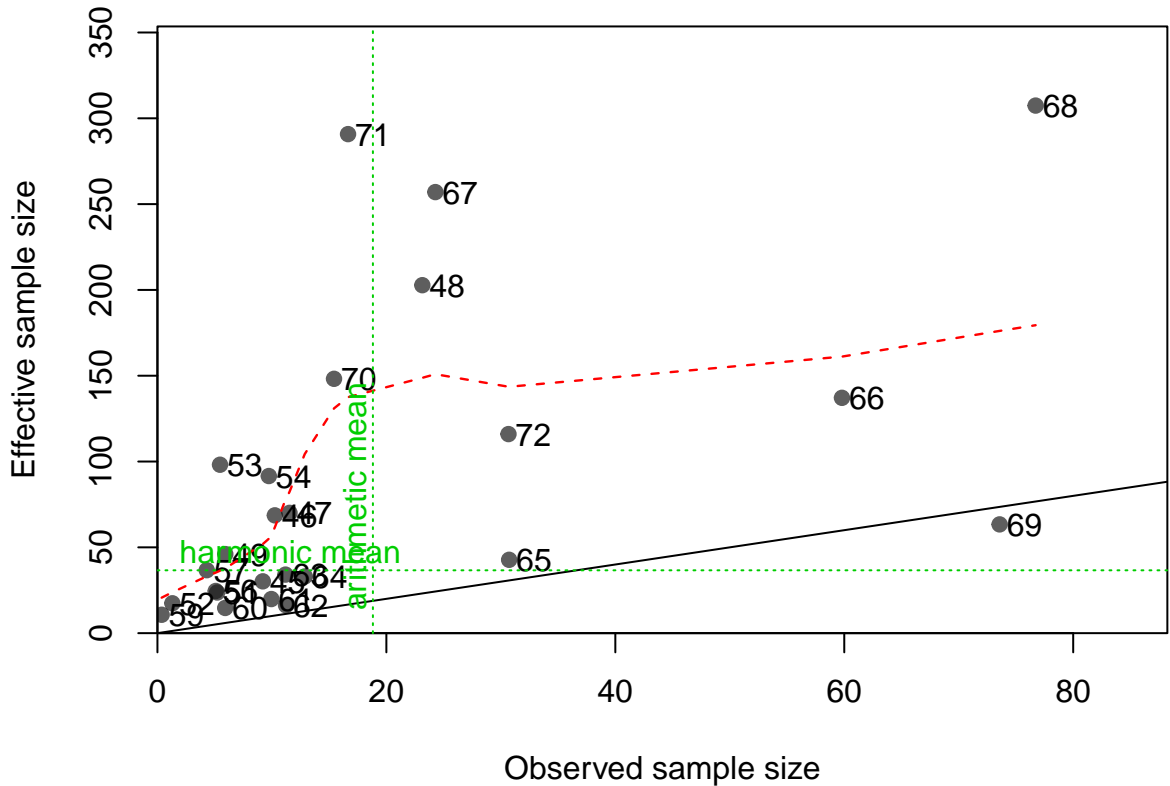
Proportion



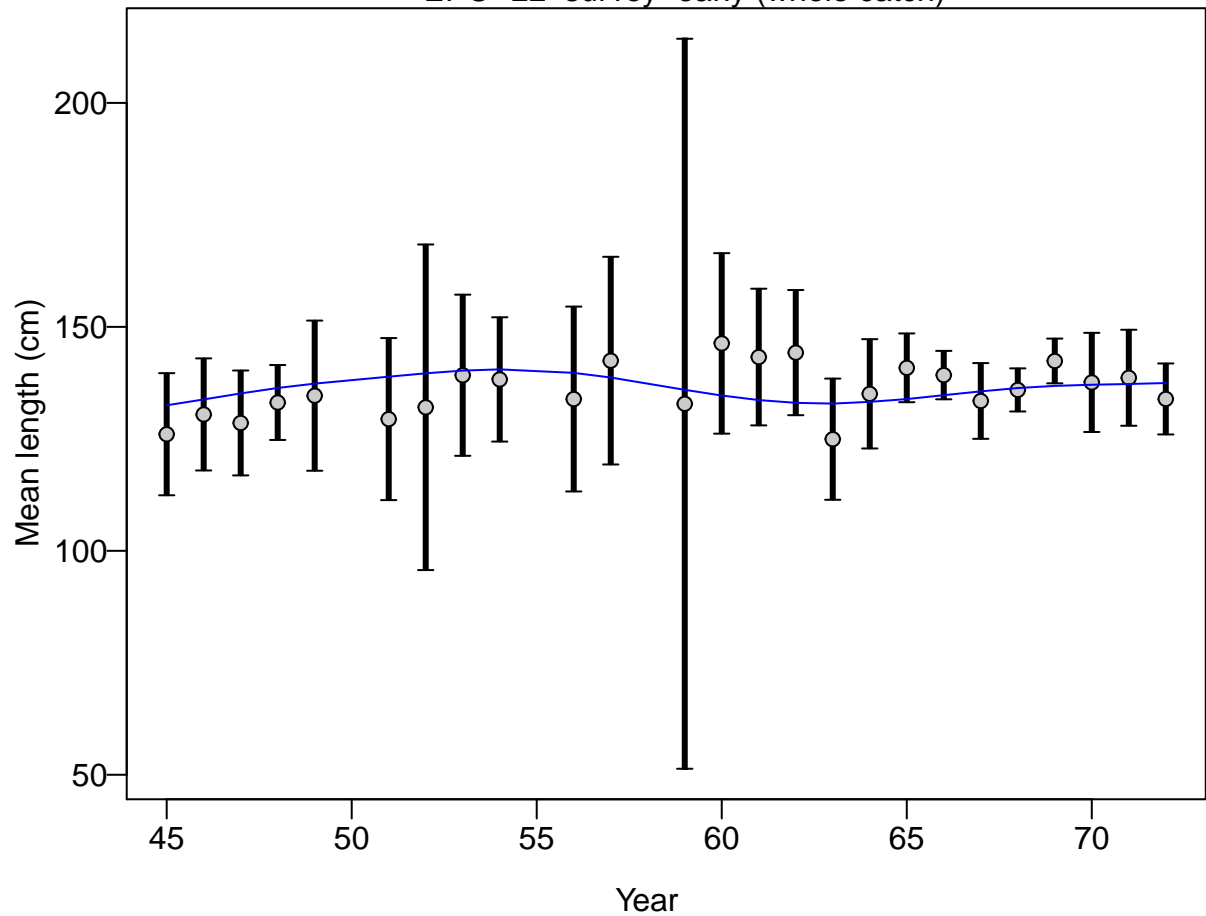
Proportion



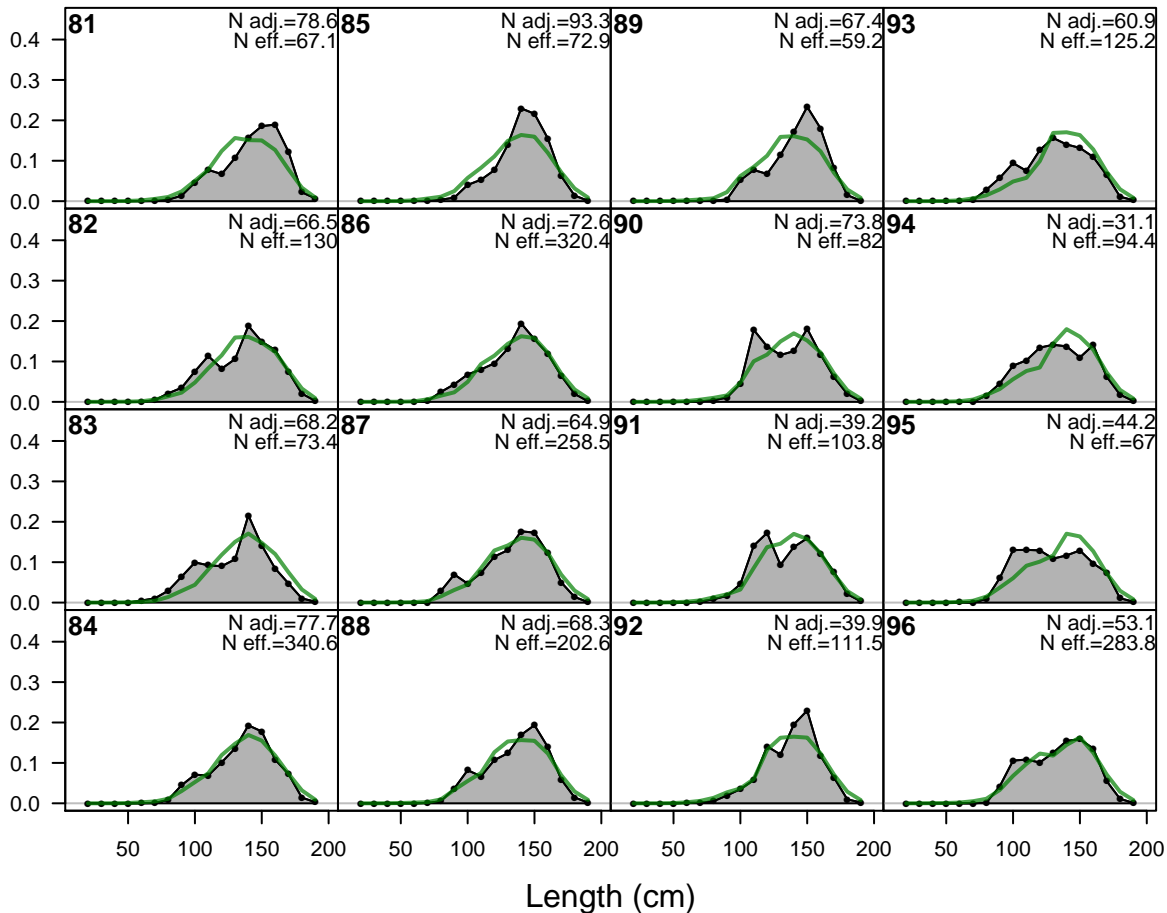




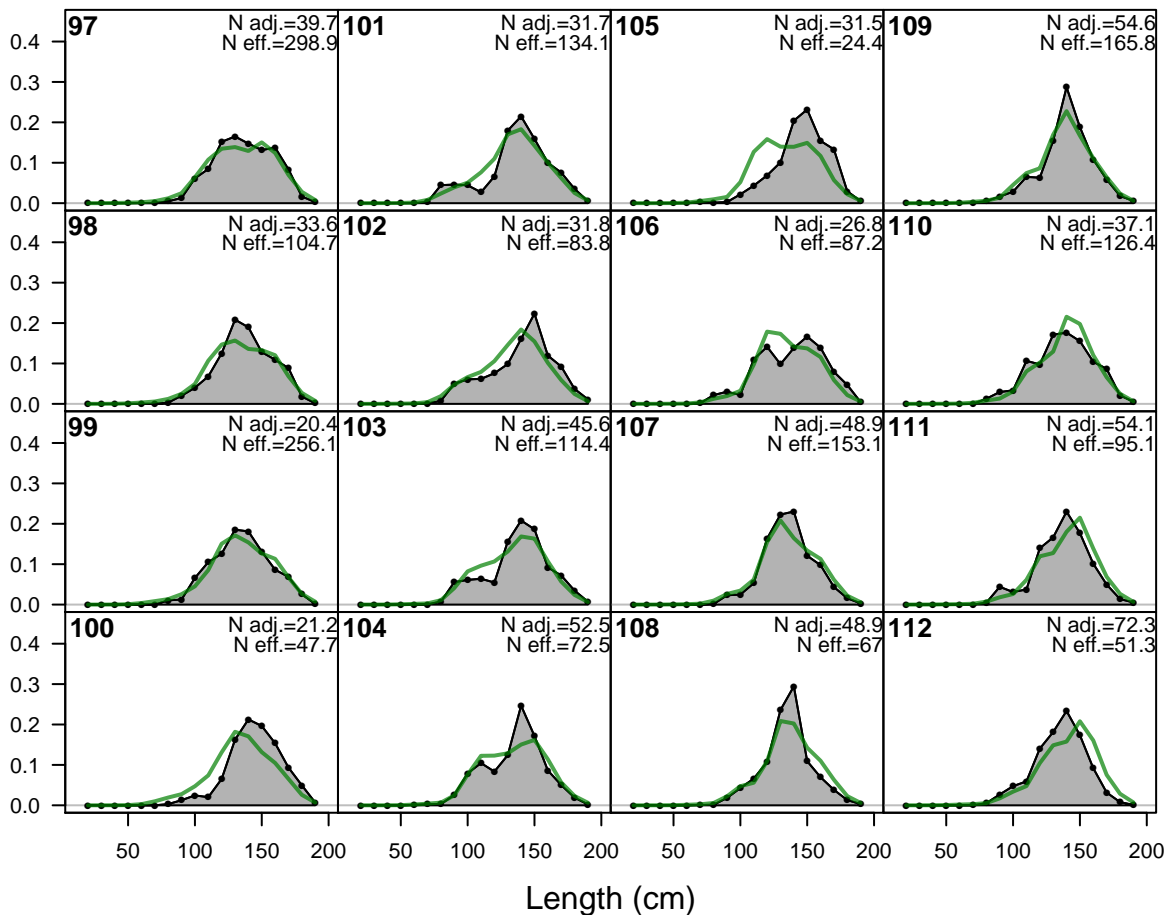
EPO-LL-survey-early (whole catch)



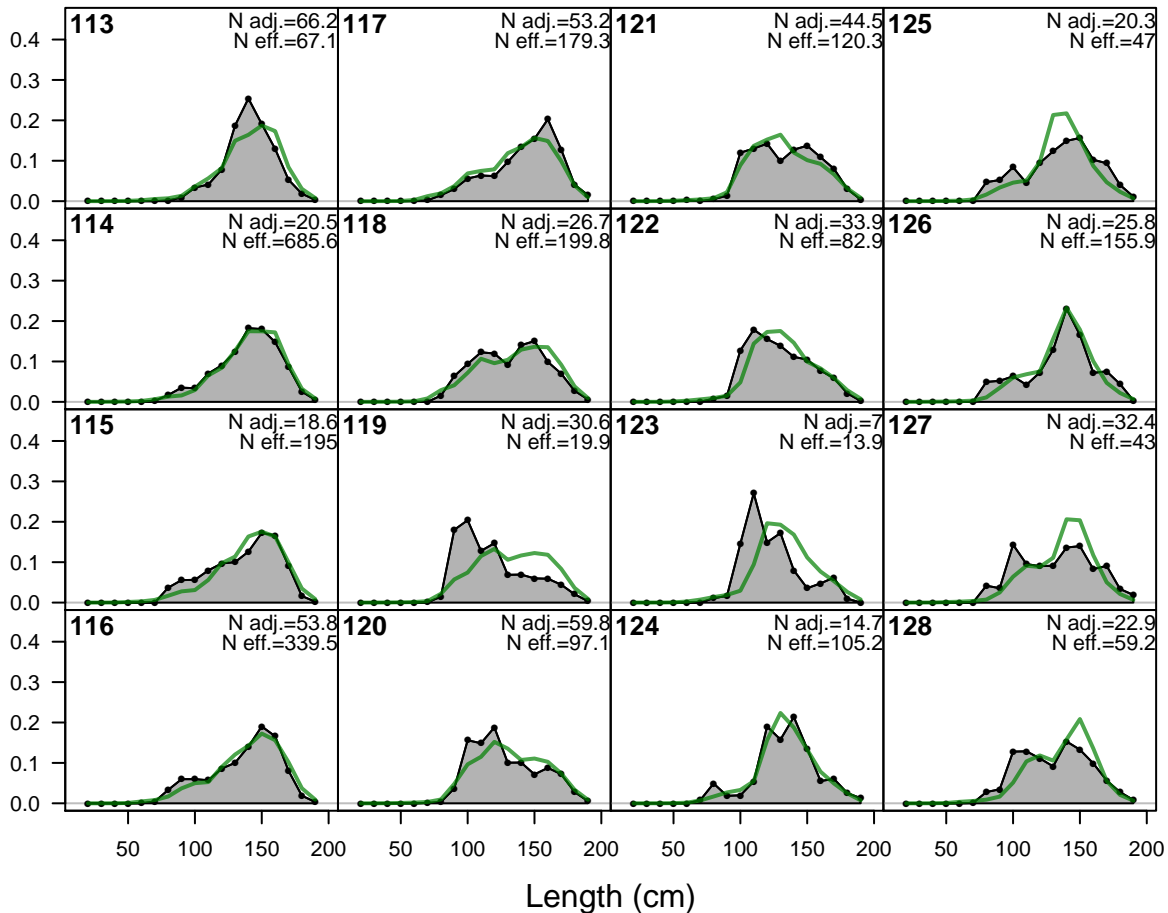
Proportion



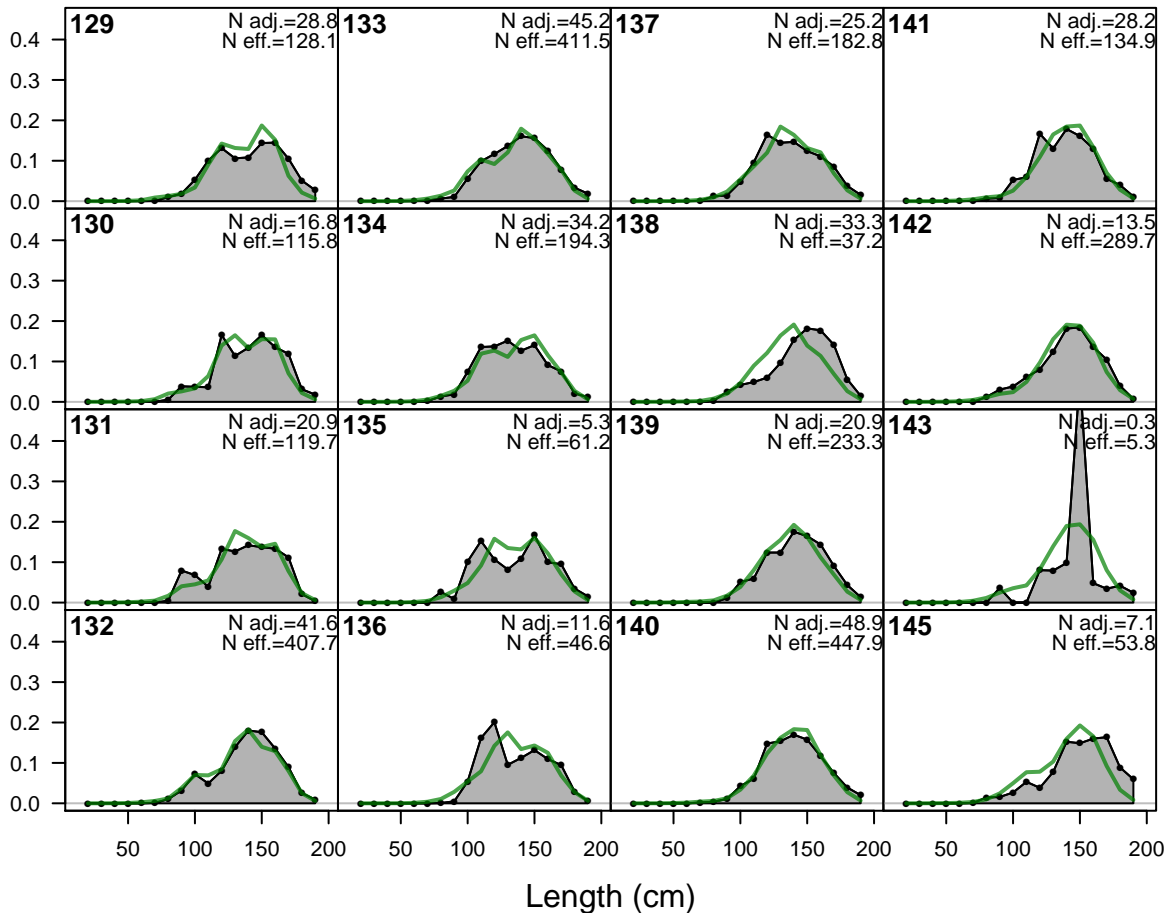
Proportion



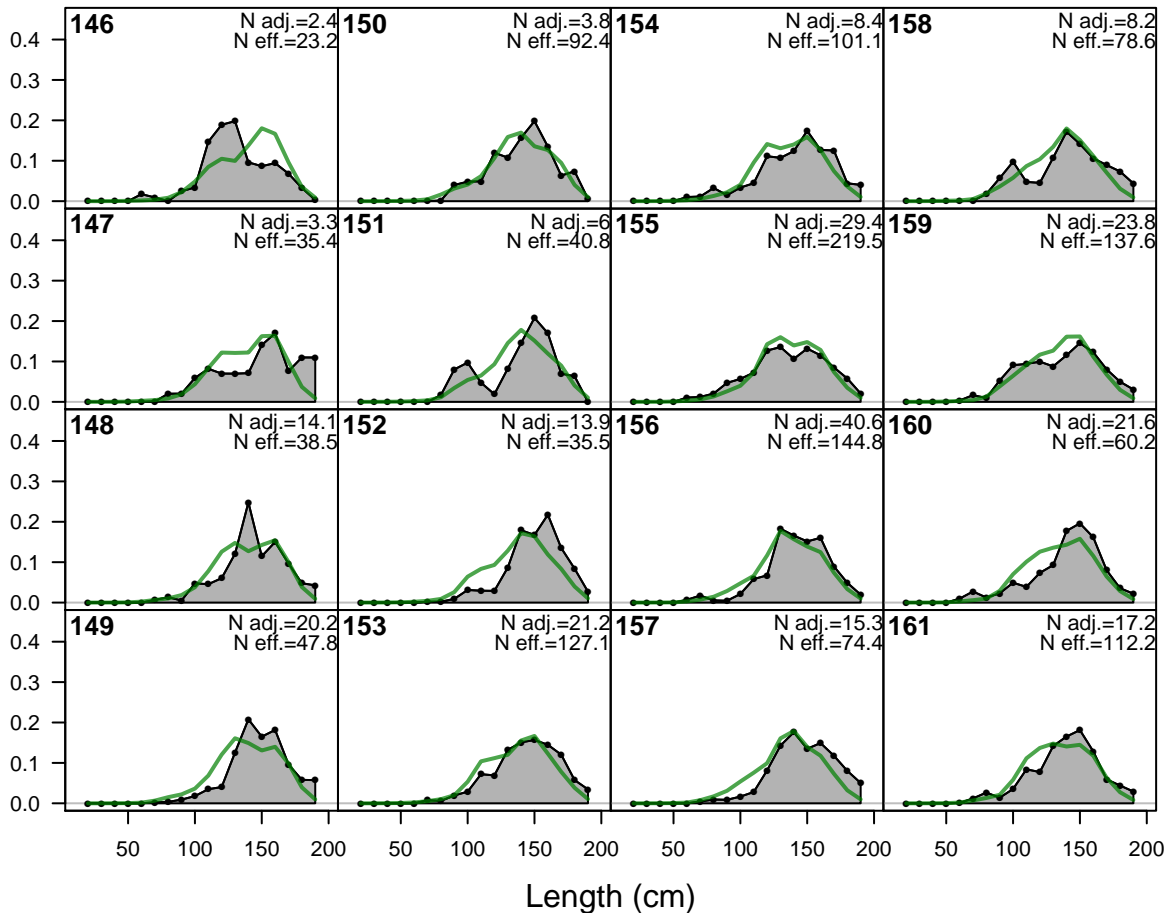
Proportion



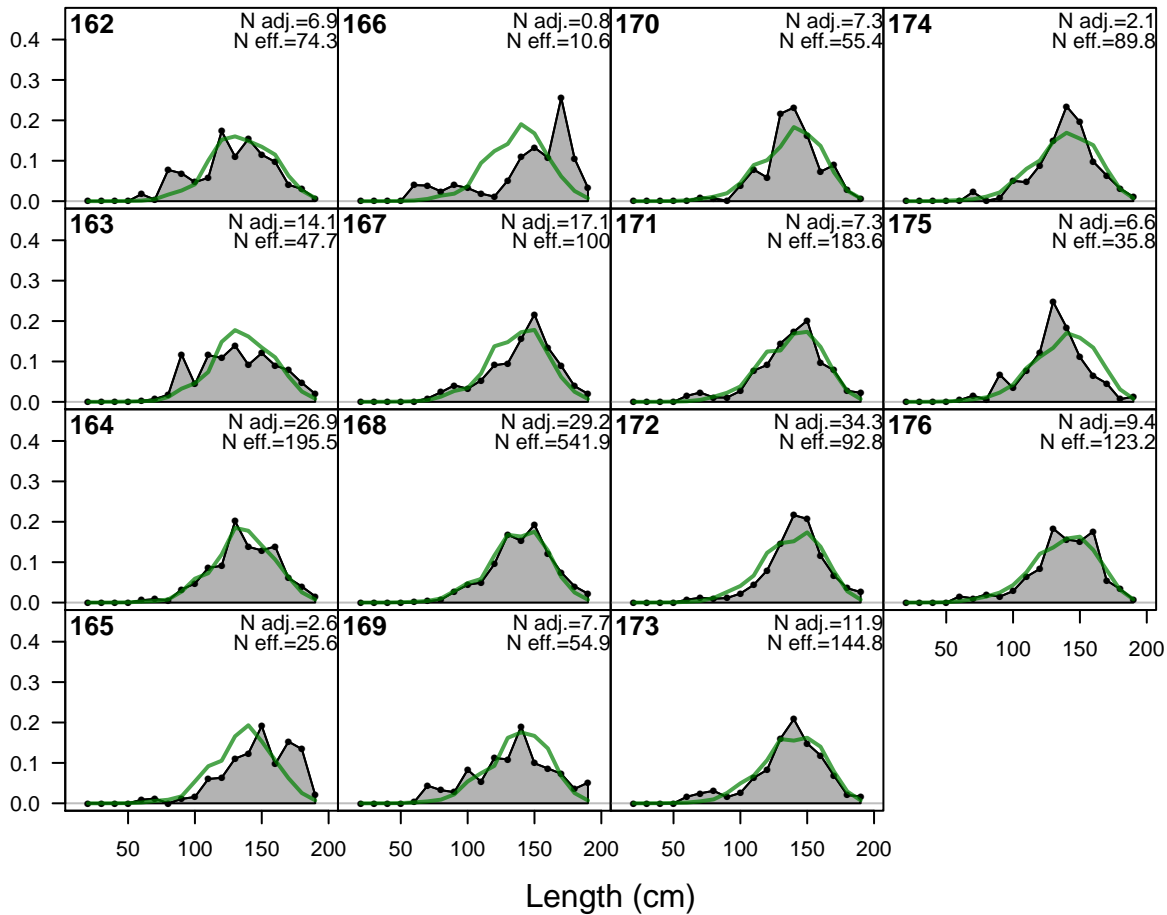
Proportion

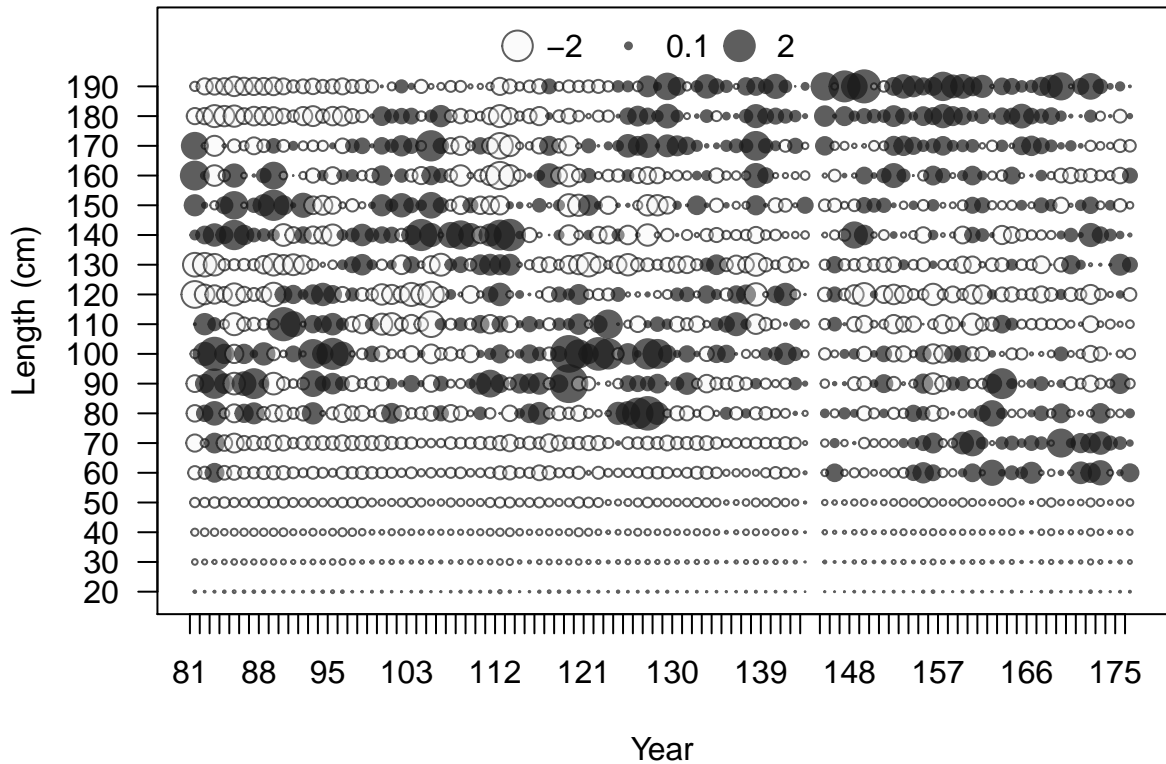


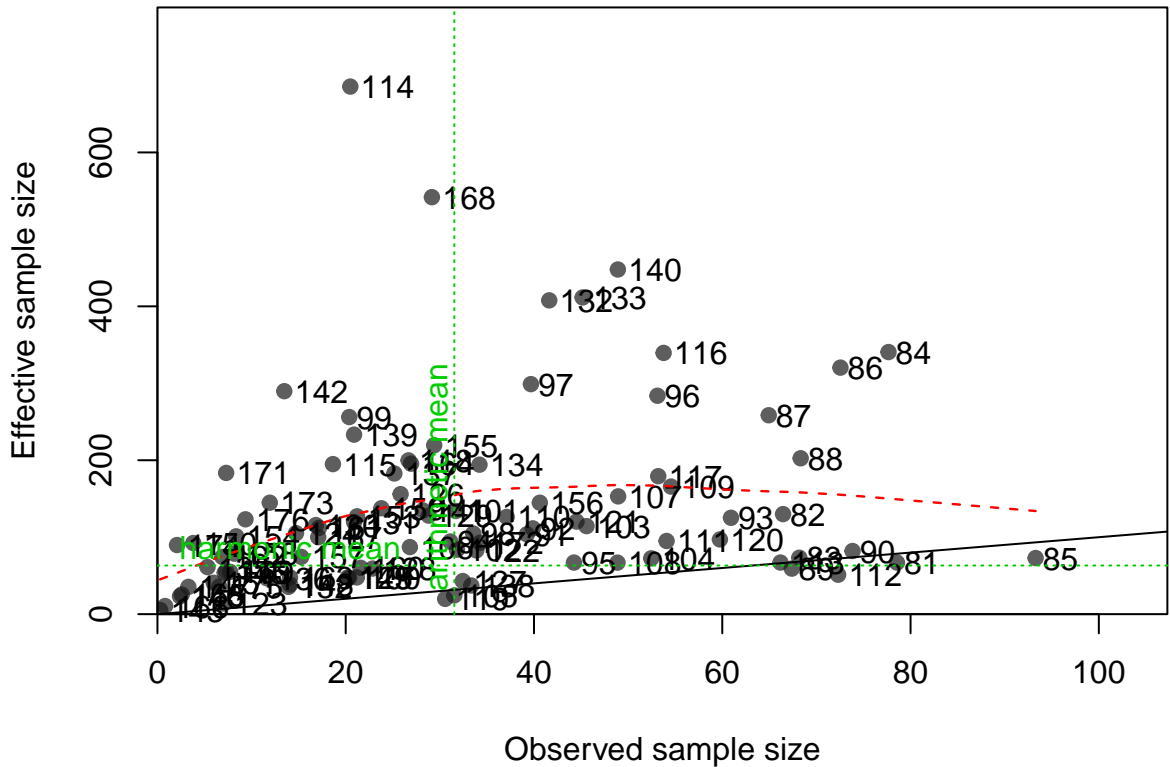
Proportion



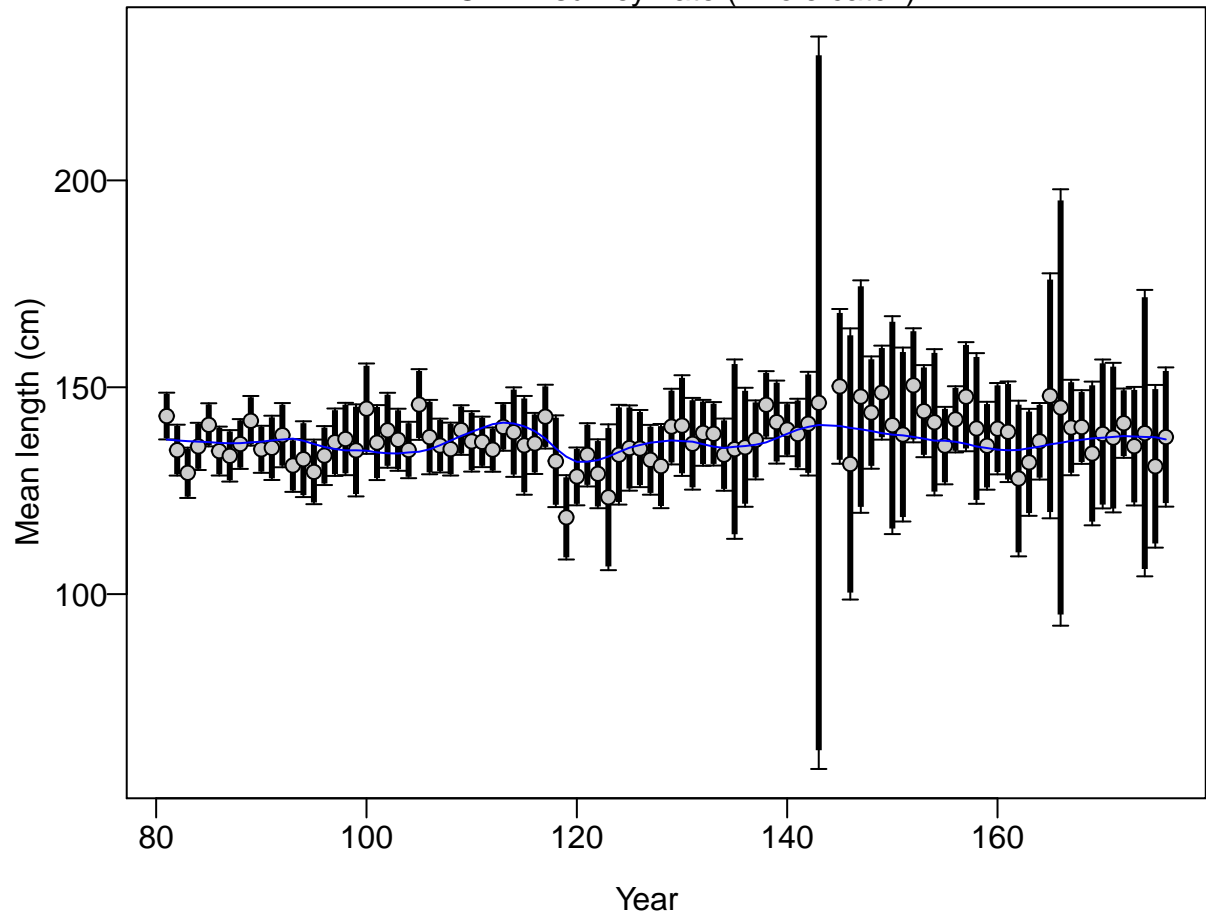
Proportion



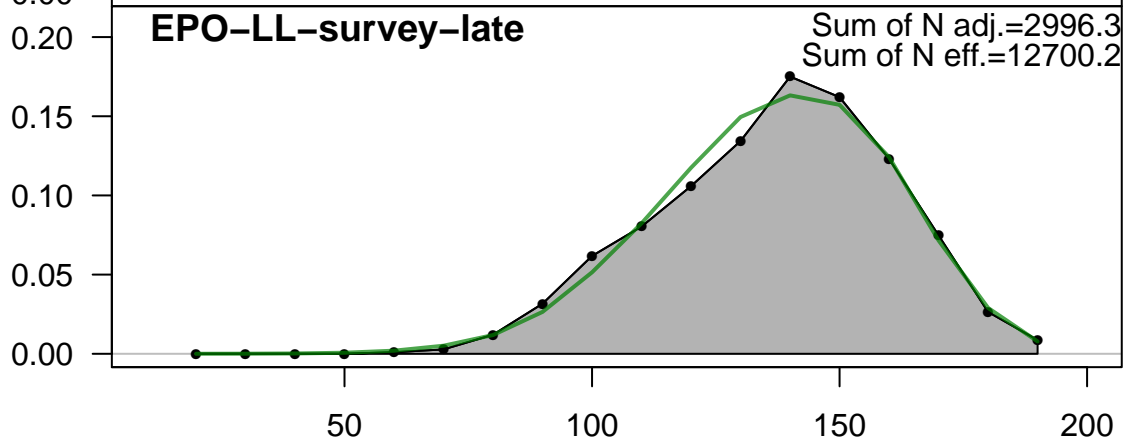
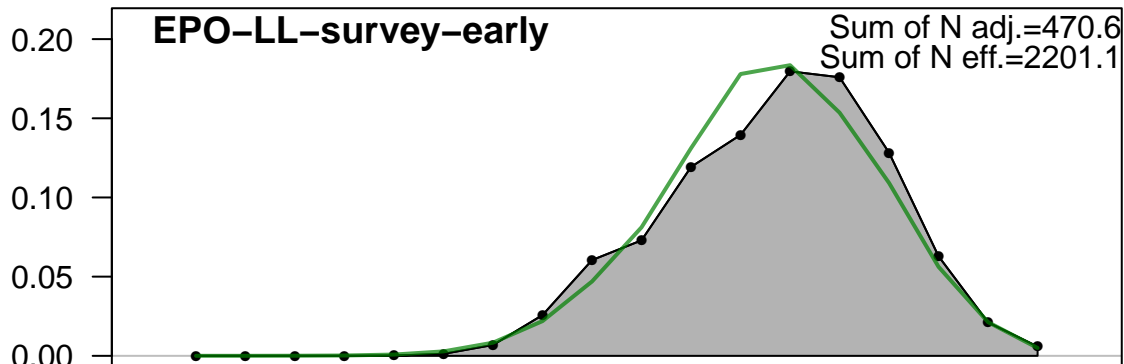




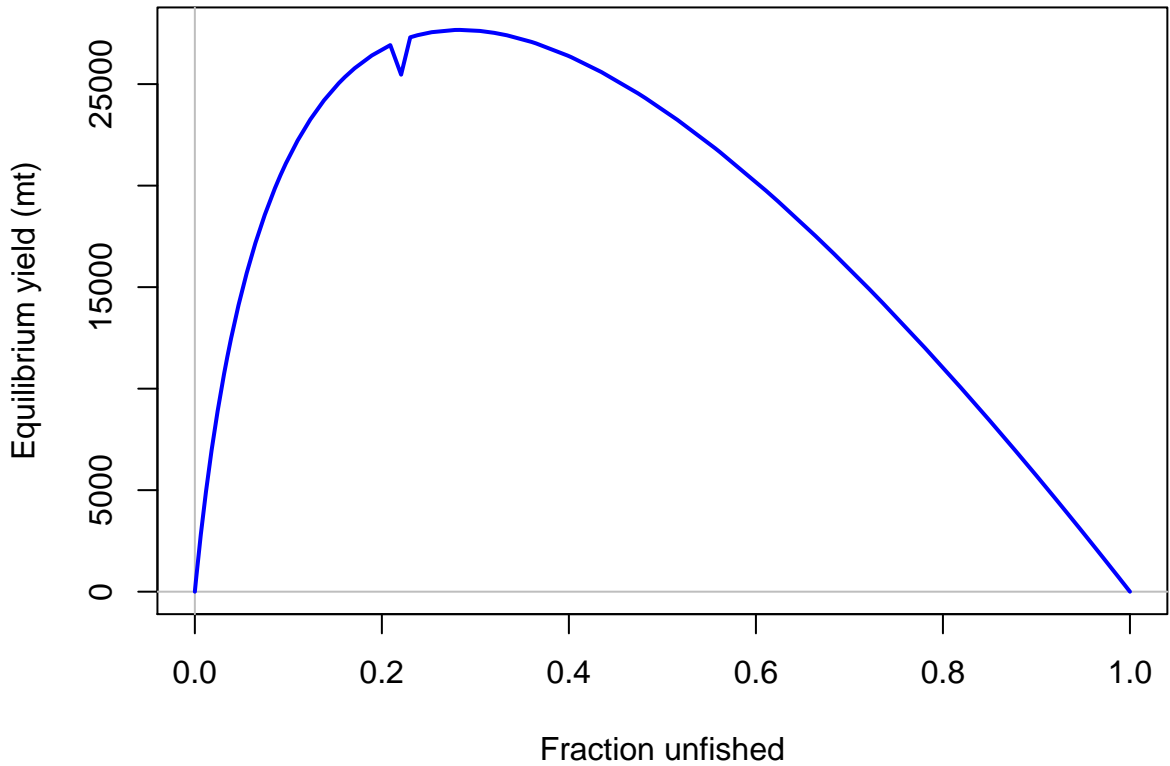
EPO-LL-survey-late (whole catch)

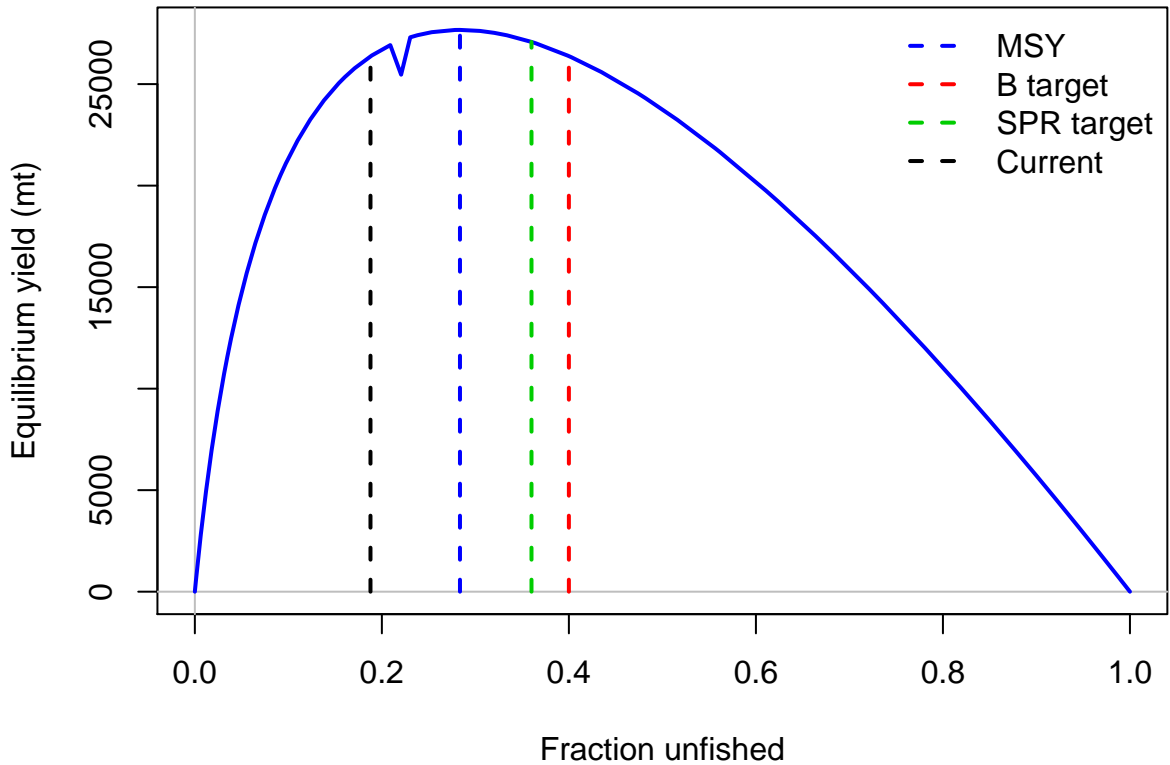


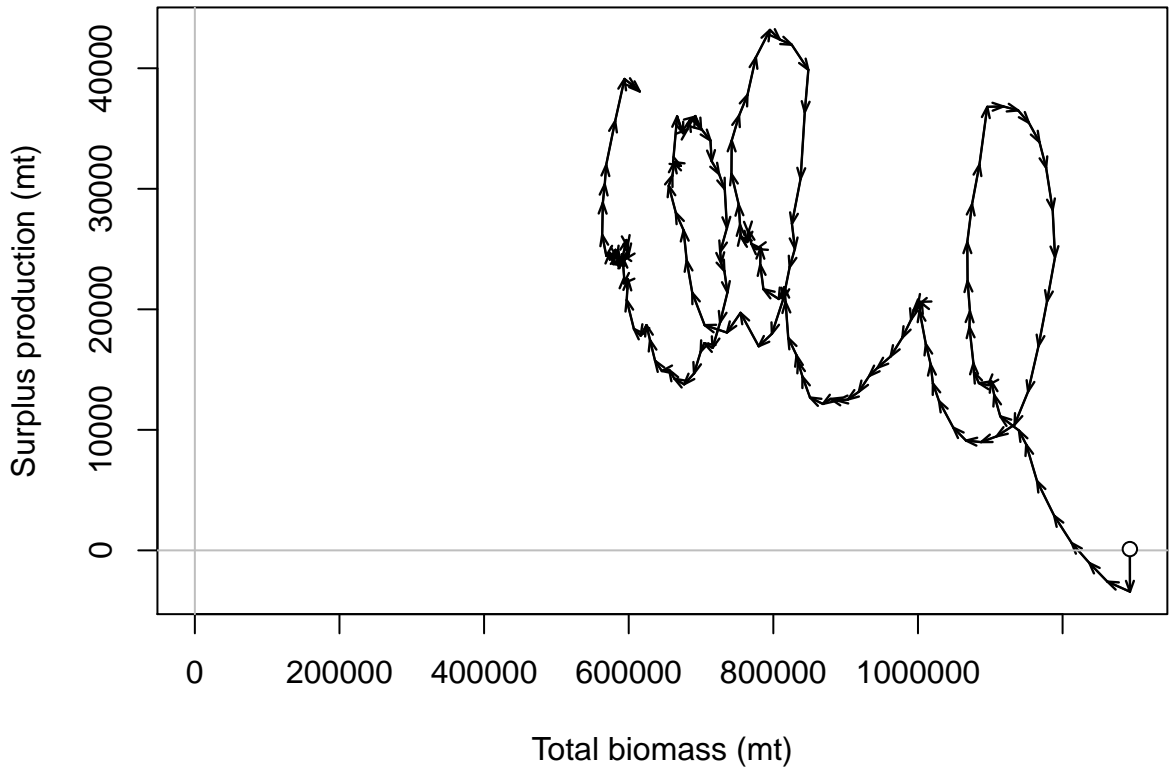
Proportion

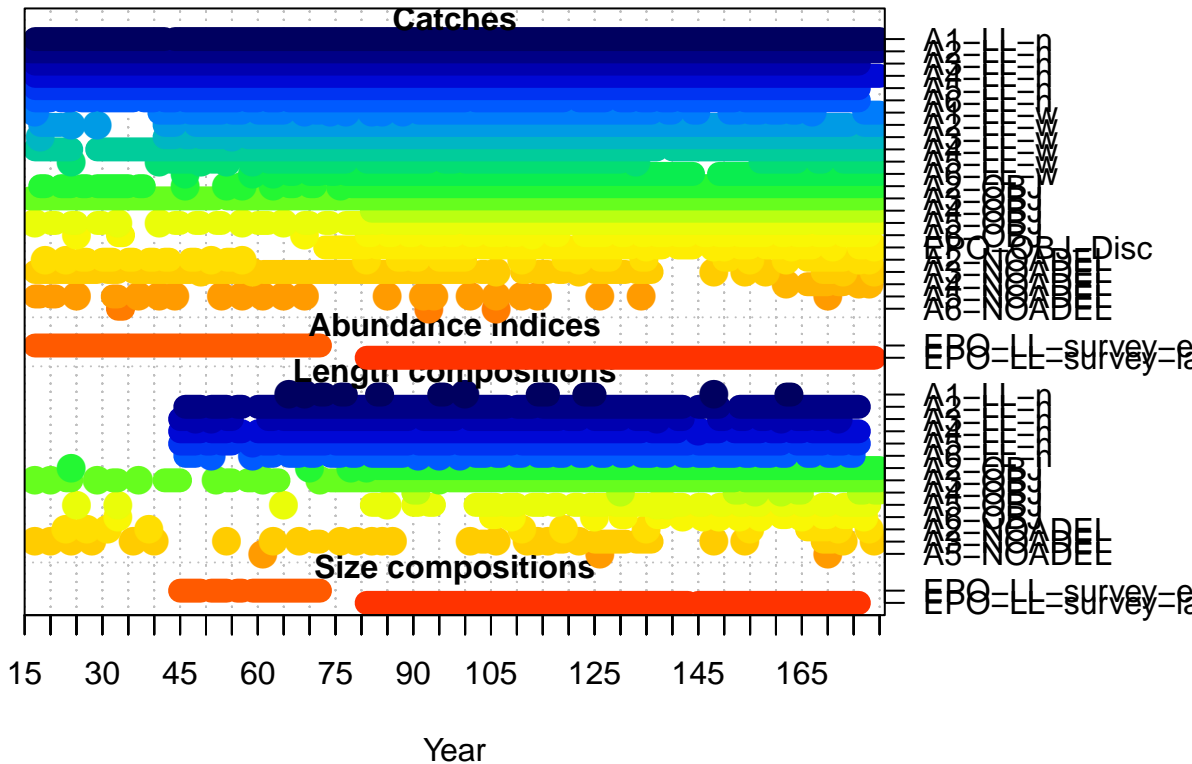


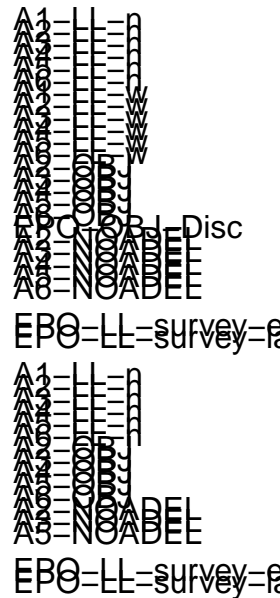
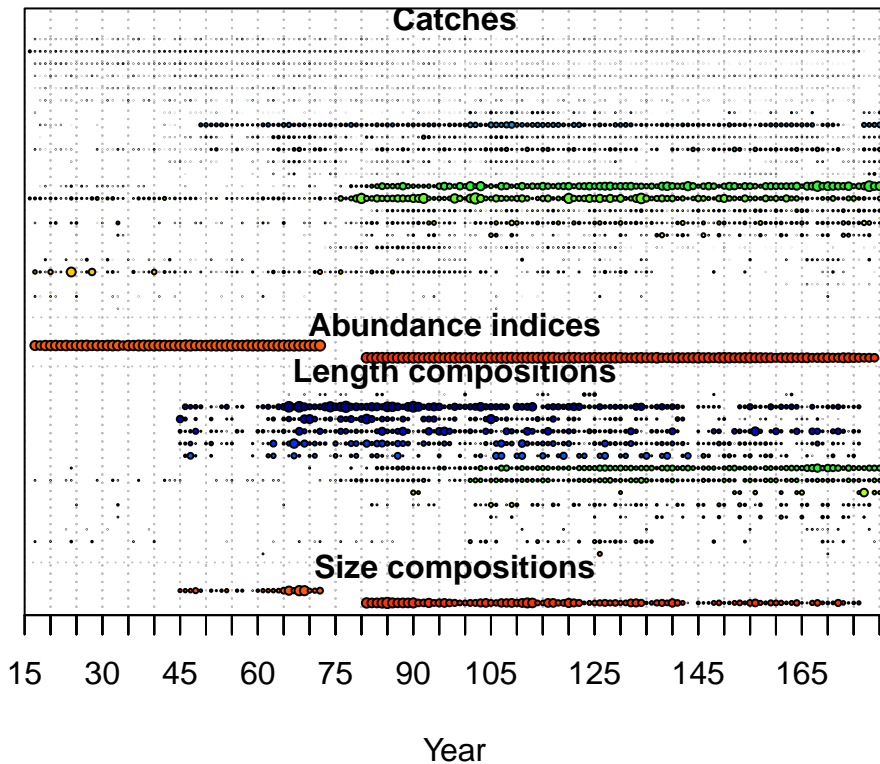
Length (cm)



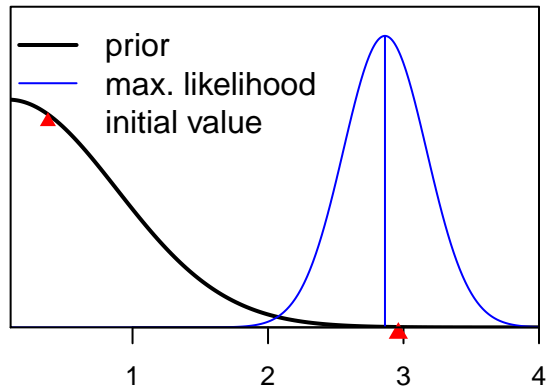




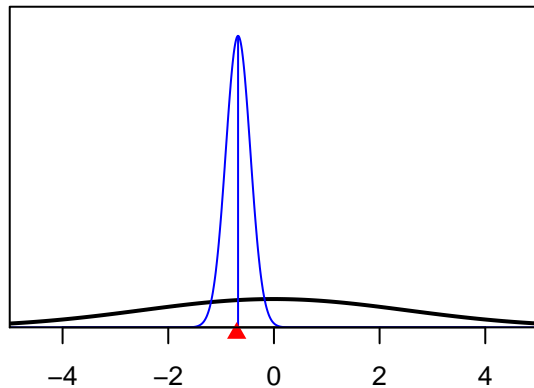




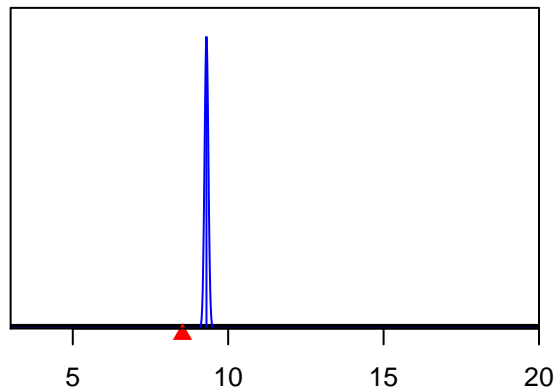
SD_young_Fem_GP_1



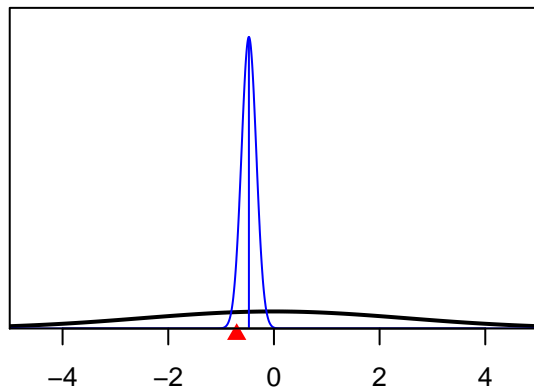
SR_regime_BLK1add_16



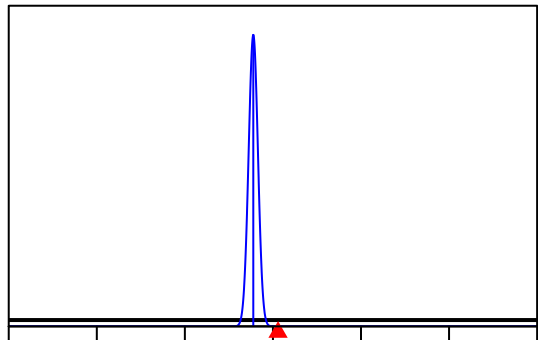
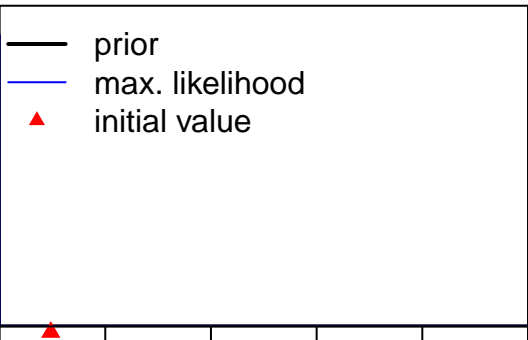
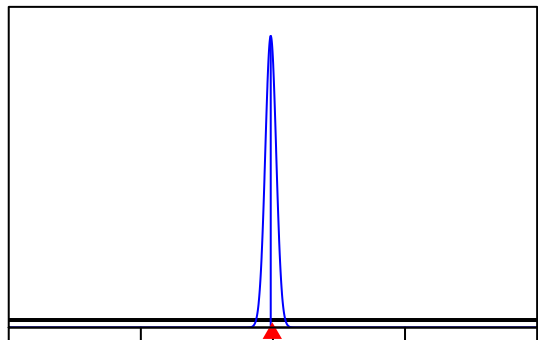
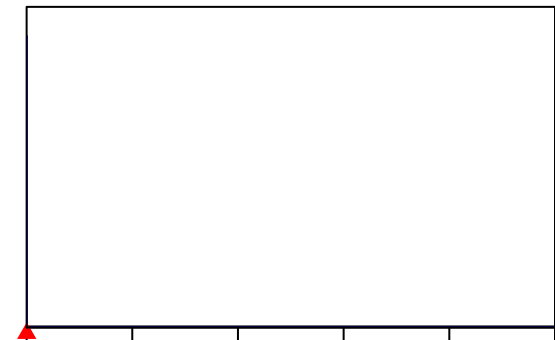
SR_LN(R0)



SR_regime_BLK1add_17



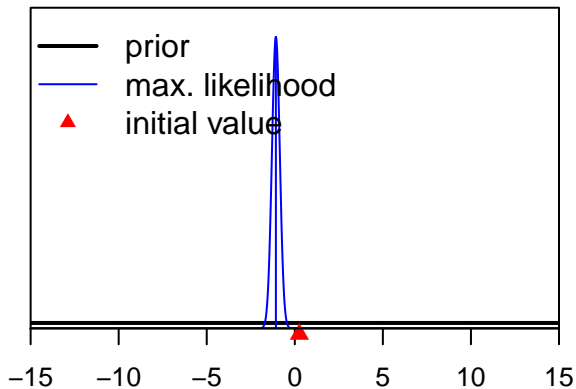
Parameter value

InitF_seas_1_flt_2A2-LL-n**LnQ_base_EPO-LL-survey-early(24)****InitF_seas_1_flt_14A3-OBJ****Q_extraSD_EPO-LL-survey-early(24)**

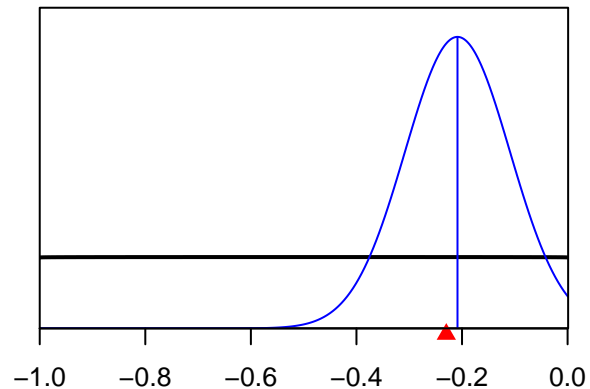
Density

Parameter value

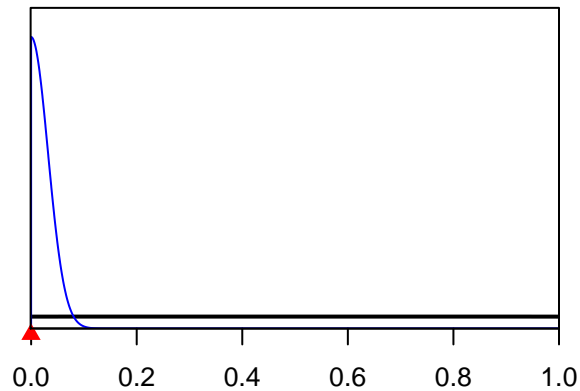
LnQ_base_EPO-LL-survey-late(25)



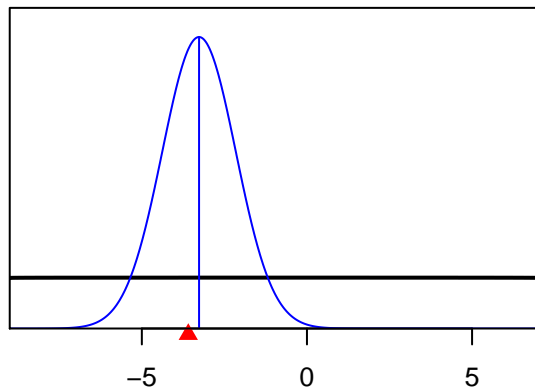
SizeSpline_GradHi_A1-LL-n(1)



SizeSpline_GradLo_A1-LL-n(1)

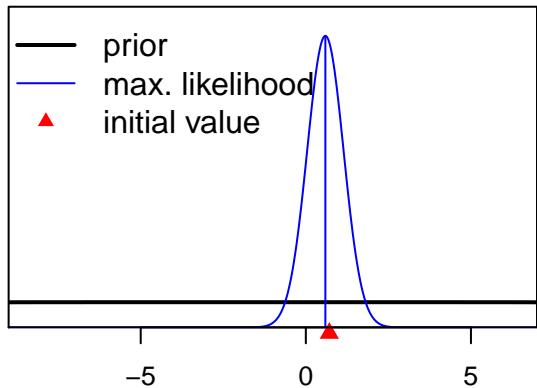


SizeSpline_Val 2_A1-LL-n(1)

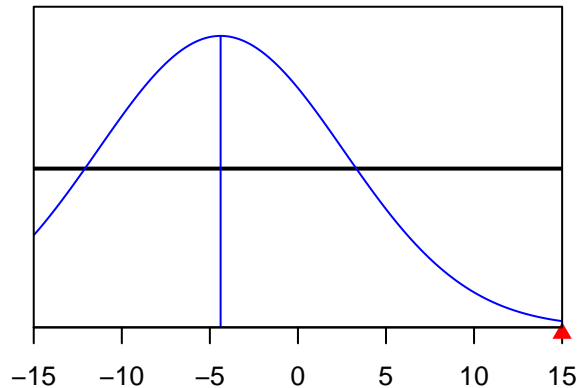


Parameter value

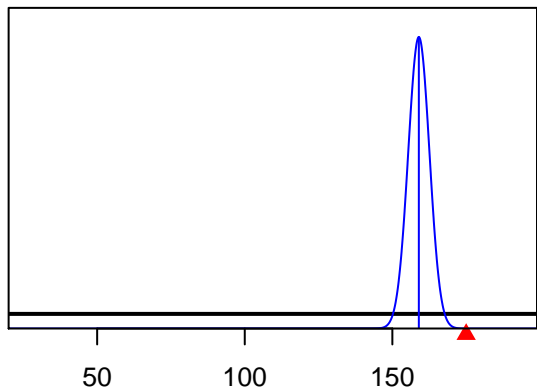
SizeSpline_Val_4_A1-LL-n(1)



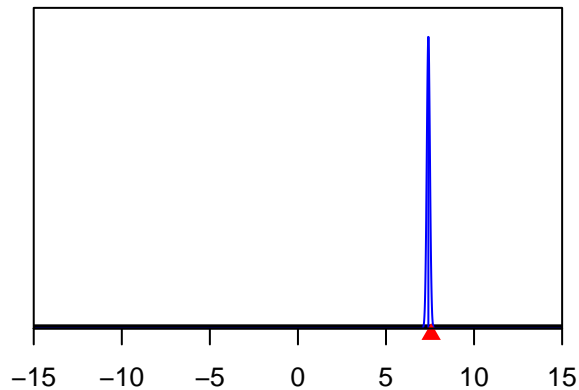
Size_DbIN_top_logit_A2-LL-n(2)



Size_DbIN_peak_A2-LL-n(2)

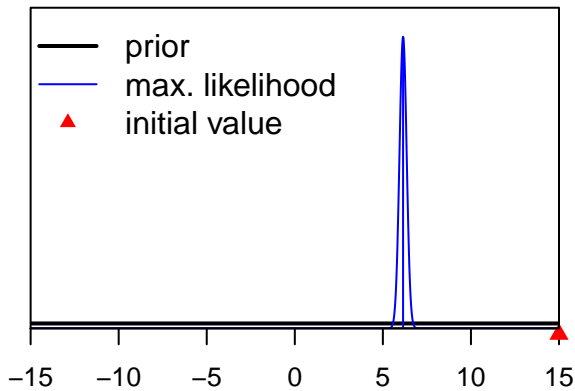


Size_DbIN_ascend_se_A2-LL-n(2)

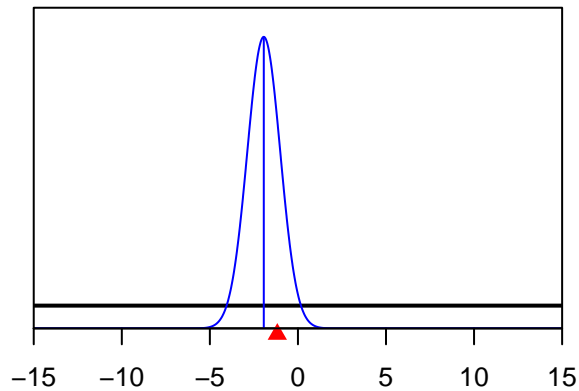


Parameter value

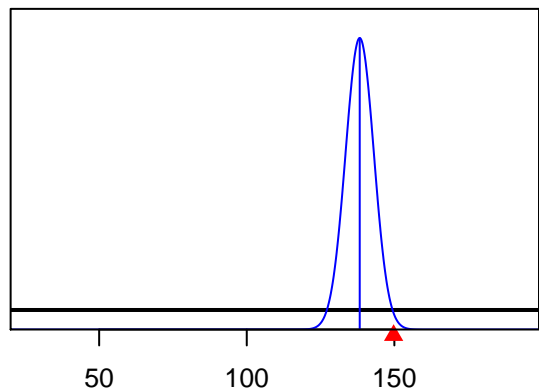
Size_DbIN_descend_se_A2-LL-n(2)



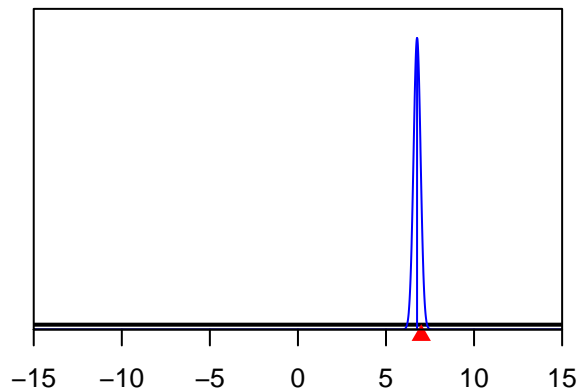
Size_DbIN_top_logit_A3-LL-n(3)



Size_DbIN_peak_A3-LL-n(3)

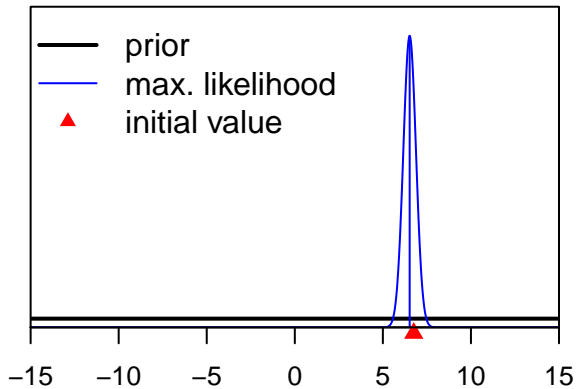


Size_DbIN_ascend_se_A3-LL-n(3)

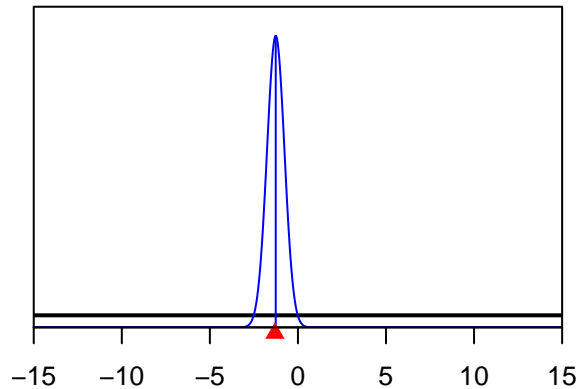


Parameter value

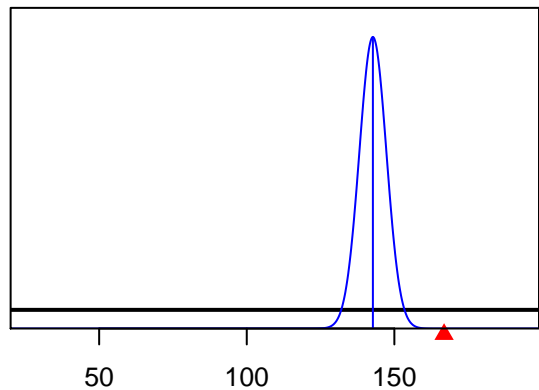
Size_DbIN_descend_se_A3-LL-n(3)



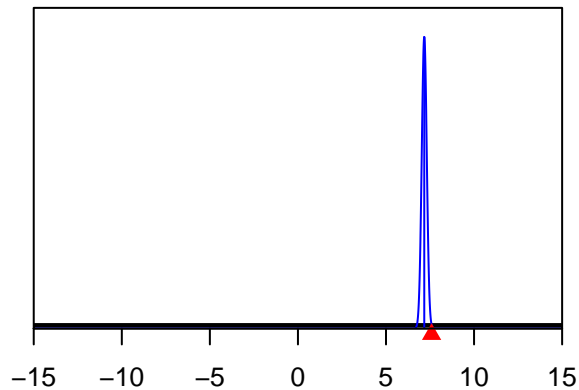
Size_DbIN_top_logit_A4-LL-n(4)



Size_DbIN_peak_A4-LL-n(4)

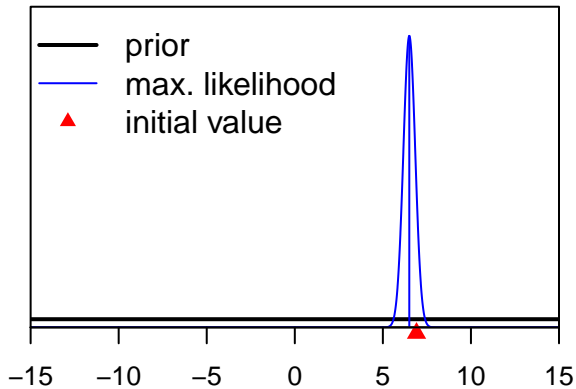


Size_DbIN_ascend_se_A4-LL-n(4)

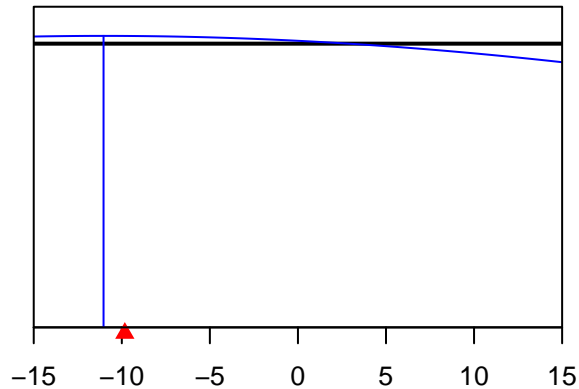


Parameter value

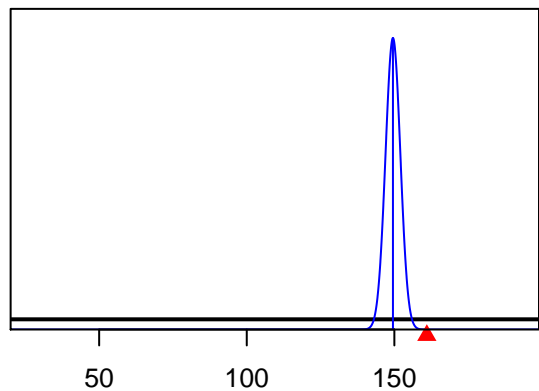
Size_DbIN_descend_se_A4-LL-n(4)



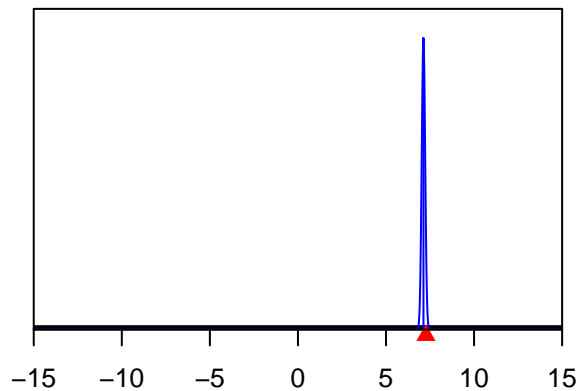
Size_DbIN_top_logit_A5-LL-n(5)



Size_DbIN_peak_A5-LL-n(5)

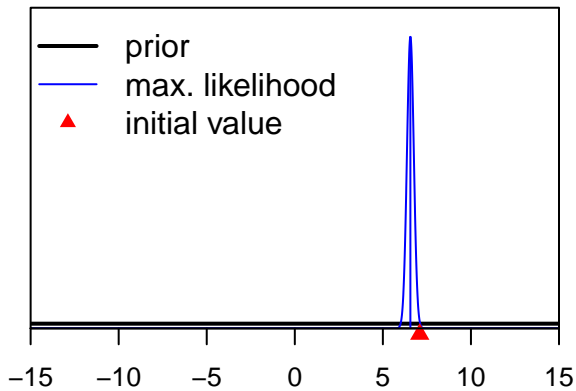


Size_DbIN_ascend_se_A5-LL-n(5)

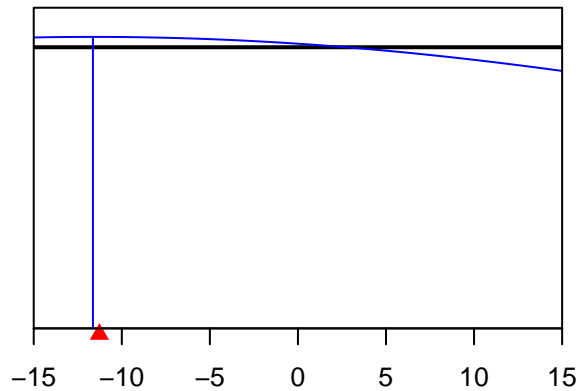


Parameter value

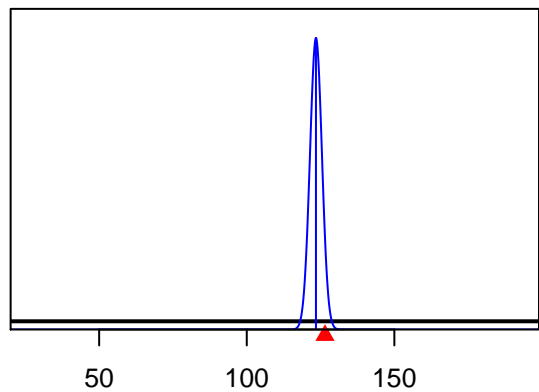
Size_DbIN_descend_se_A5-LL-n(5)



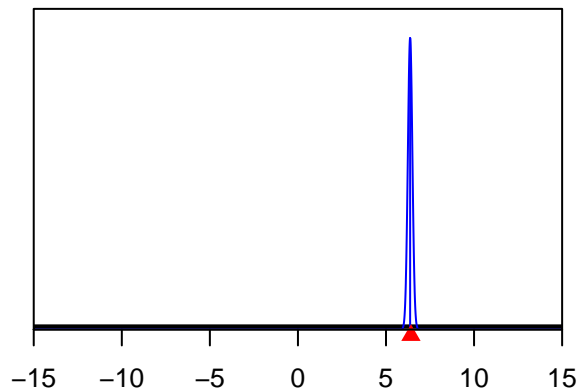
Size_DbIN_top_logit_A6-LL-n(6)



Size_DbIN_peak_A6-LL-n(6)

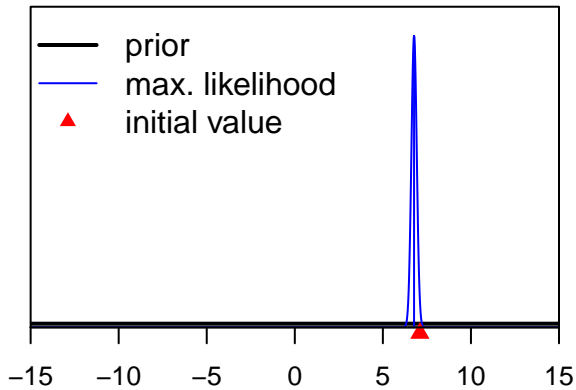


Size_DbIN_ascend_se_A6-LL-n(6)

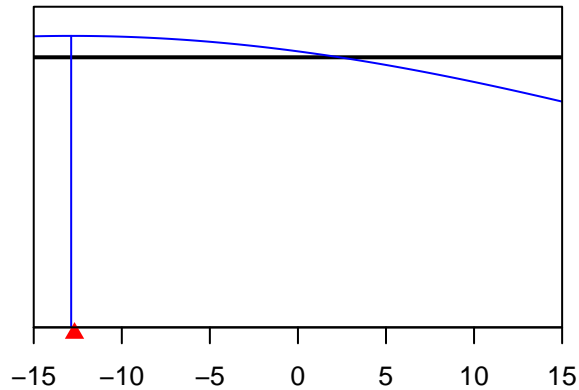


Parameter value

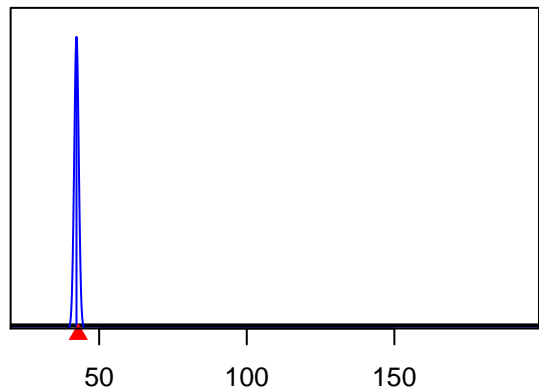
Size_DbIN_descend_se_A6-LL-n(6)



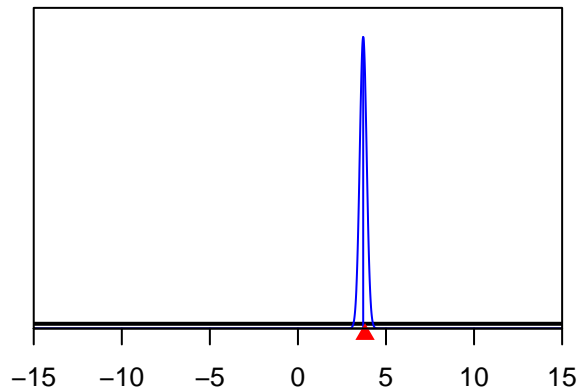
Size_DbIN_top_logit_A2-OBJ(13)



Size_DbIN_peak_A2-OBJ(13)

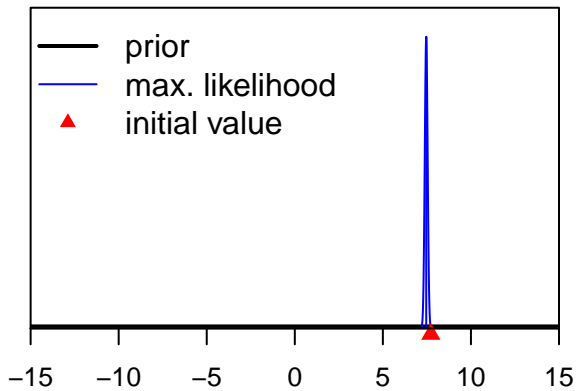


Size_DbIN_ascend_se_A2-OBJ(13)

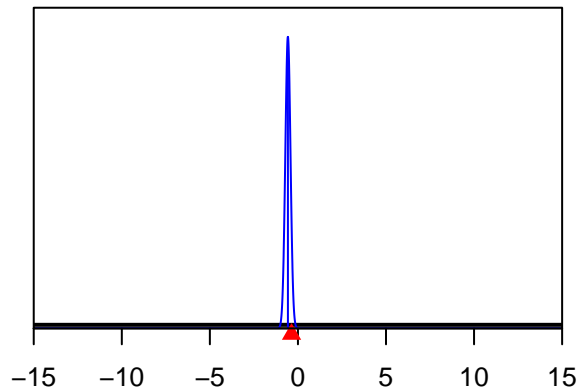


Parameter value

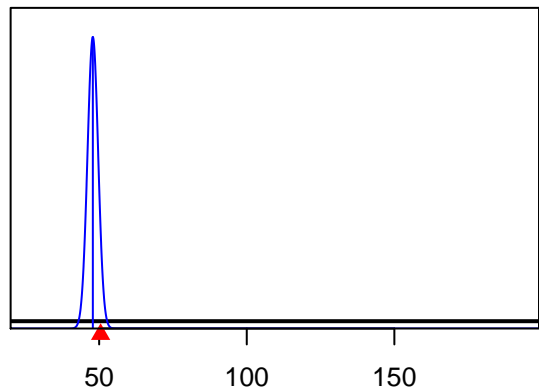
Size_DbIN_descend_se_A2-Obj(13)



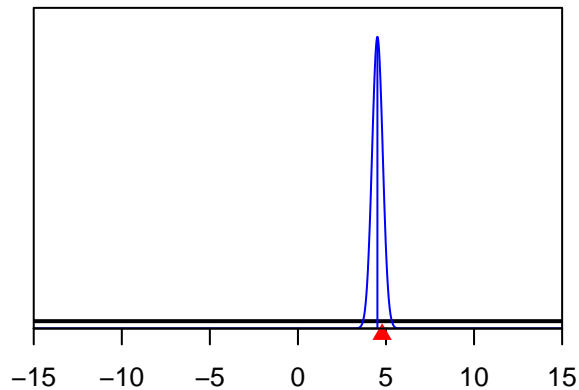
Size_DbIN_top_logit_A3-Obj(14)



Size_DbIN_peak_A3-Obj(14)

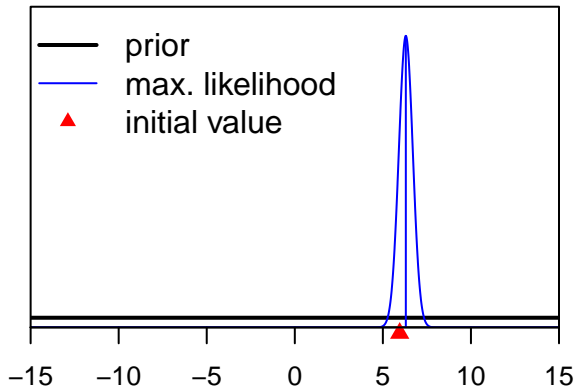


Size_DbIN_ascend_se_A3-Obj(14)

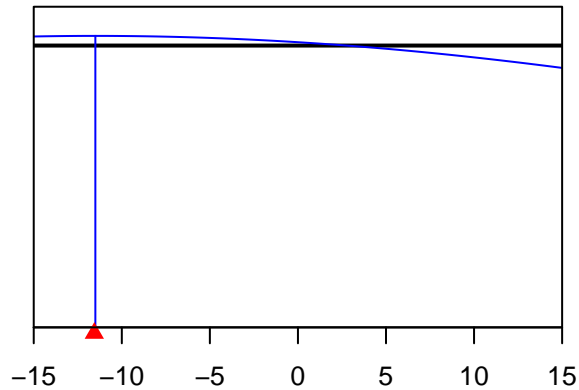


Parameter value

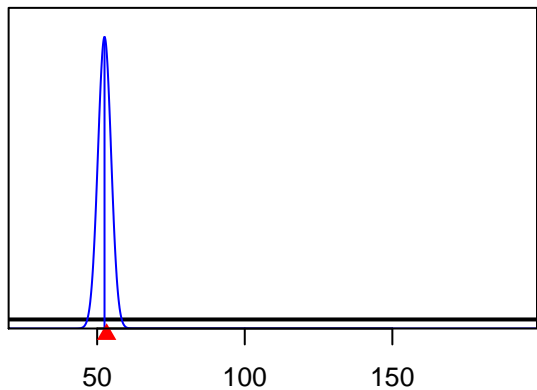
Size_DbIN_descend_se_A3-Obj(14)



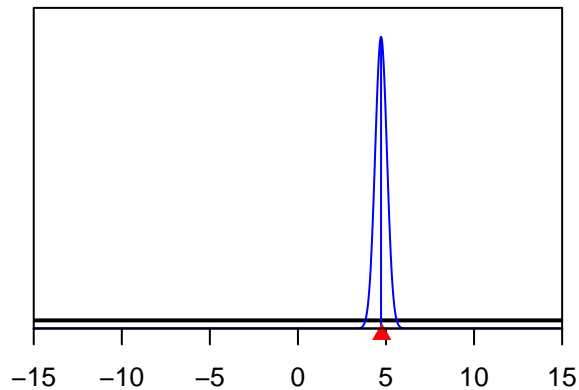
Size_DbIN_top_logit_A4-Obj(15)



Size_DbIN_peak_A4-Obj(15)

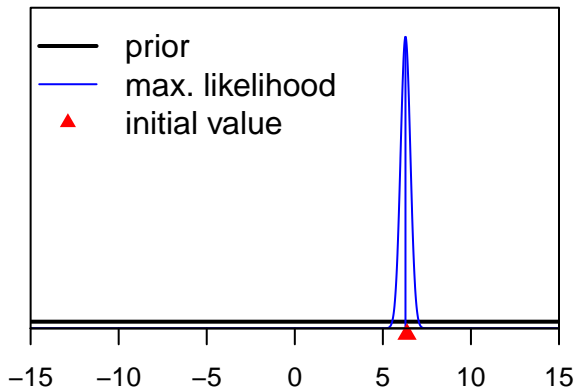


Size_DbIN_ascend_se_A4-Obj(15)

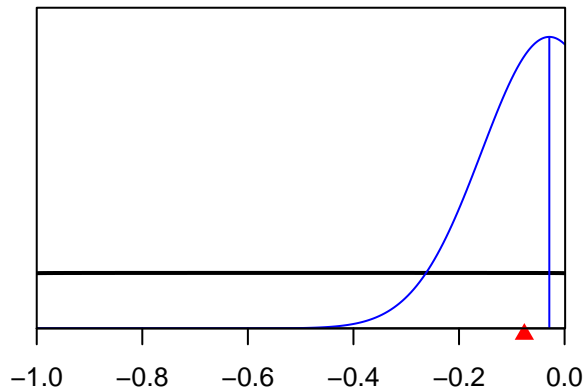


Parameter value

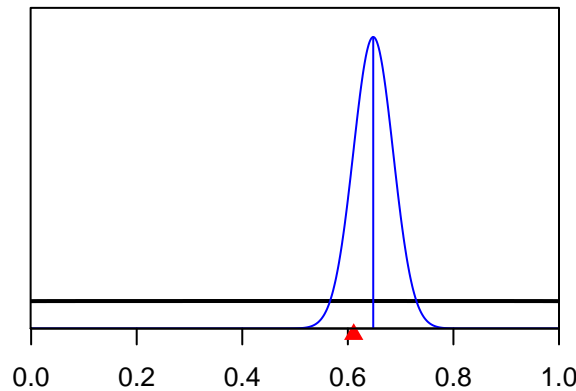
Size_DblN_descend_se_A4-Obj(15)



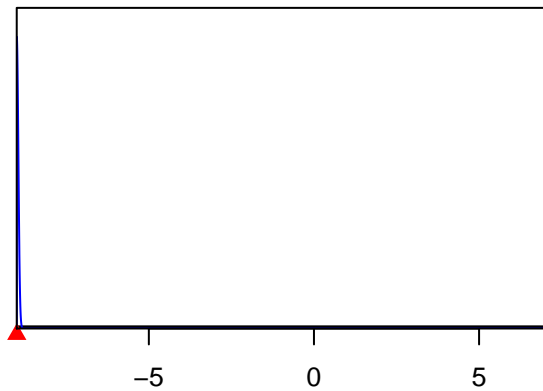
SizeSpline_GradHi_A5-Obj(16)



SizeSpline_GradLo_A5-Obj(16)

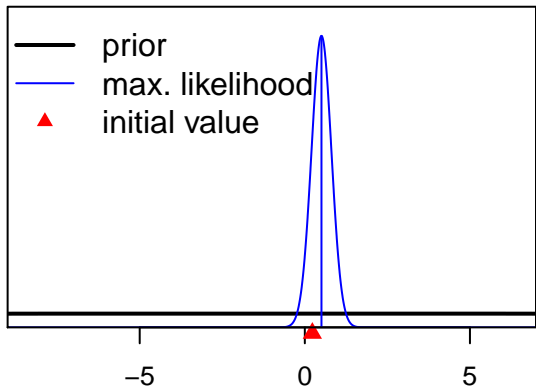


SizeSpline_Val_1_A5-Obj(16)

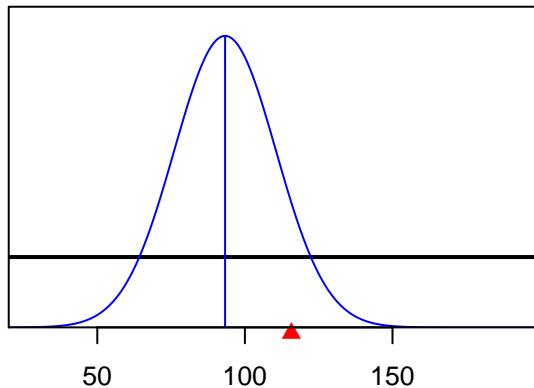


Parameter value

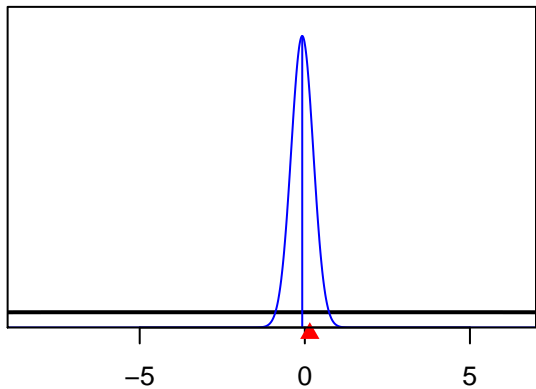
SizeSpline_Val_2_A5-OBJ(16)



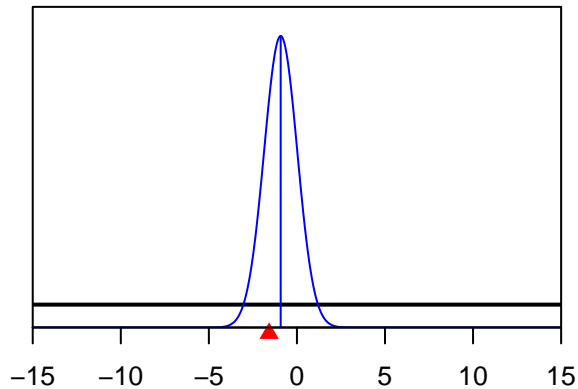
Size_DblN_peak_A6-OBJ(17)



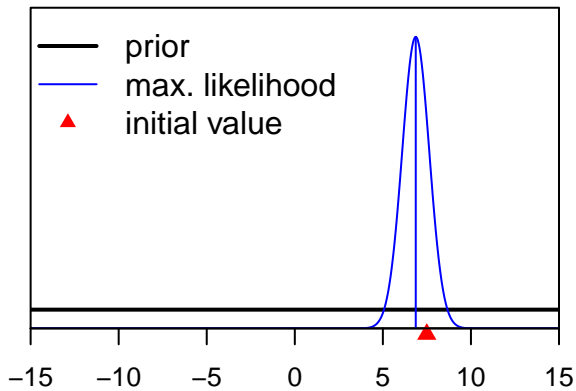
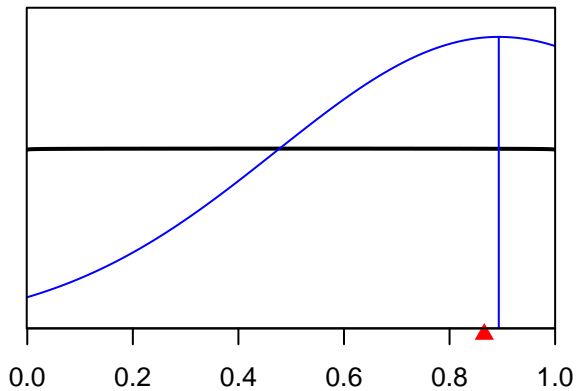
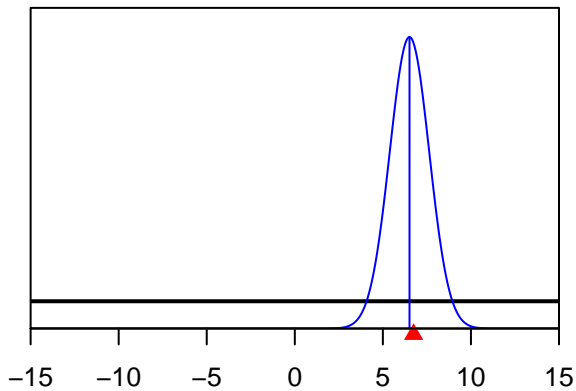
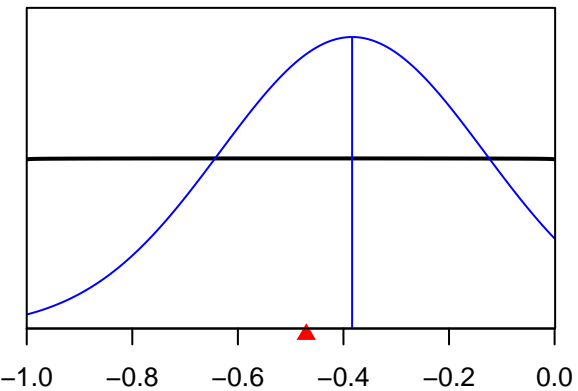
SizeSpline_Val_4_A5-OBJ(16)



Size_DblN_top_logit_A6-OBJ(17)

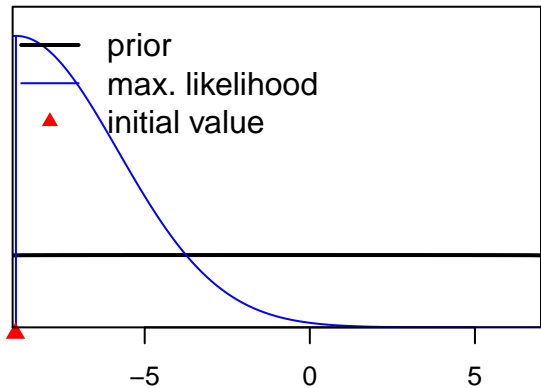


Parameter value

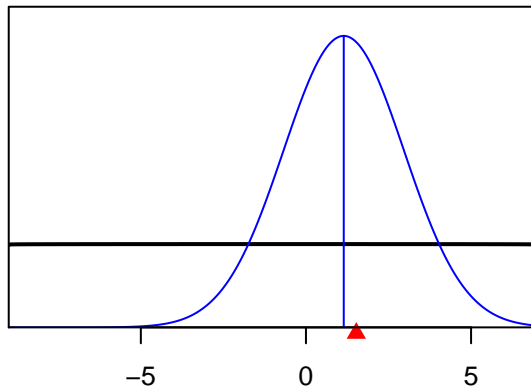
Size_DbIN_ascend_se_A6-OBJ(17)**SizeSpline_GradLo_A2-NOADEL(19)****Size_DbIN_descend_se_A6-OBJ(17)****SizeSpline_GradHi_A2-NOADEL(19)**

Parameter value

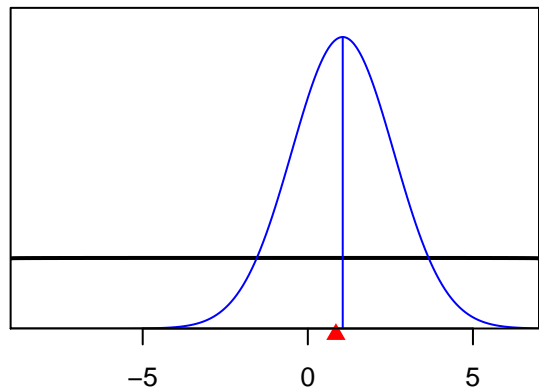
SizeSpline_Val_1_A2-NOADEL(19)



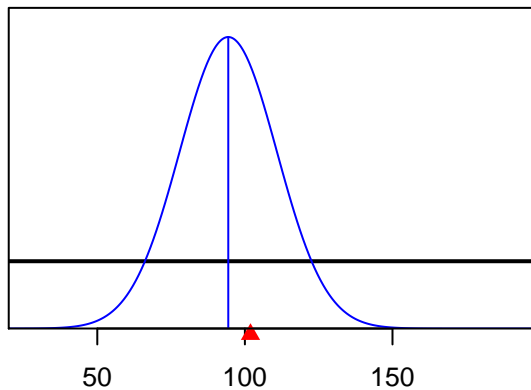
SizeSpline_Val_4_A2-NOADEL(19)



SizeSpline_Val_2_A2-NOADEL(19)



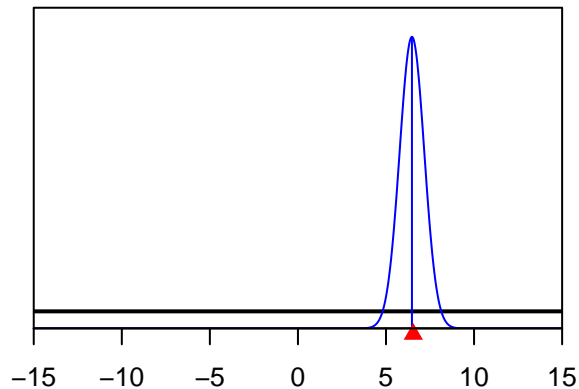
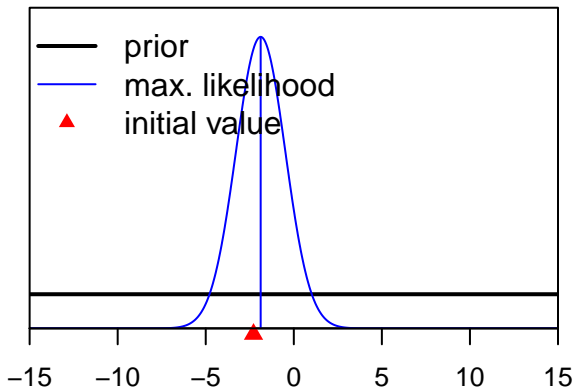
Size_DblN_peak_A3-NOADEL(20)



Parameter value

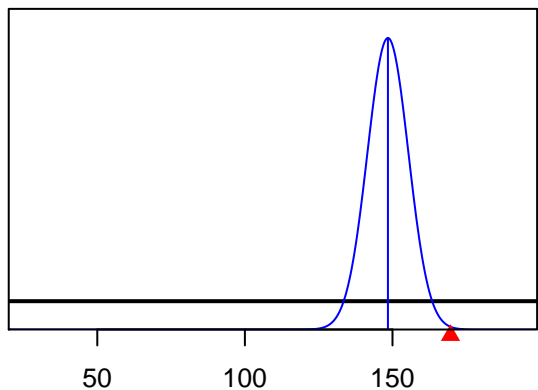
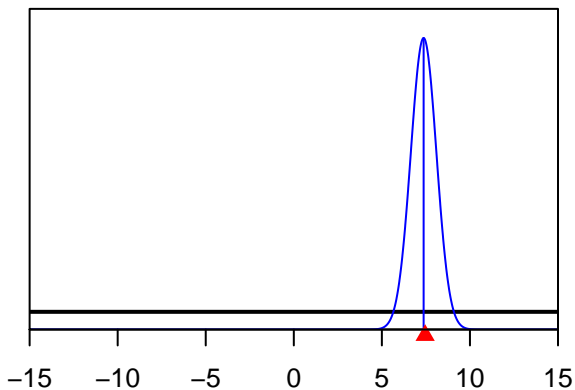
Size_DbIN_top_logit_A3-NOADEL(20)

Size_DbIN_descend_se_A3-NOADEL(20)



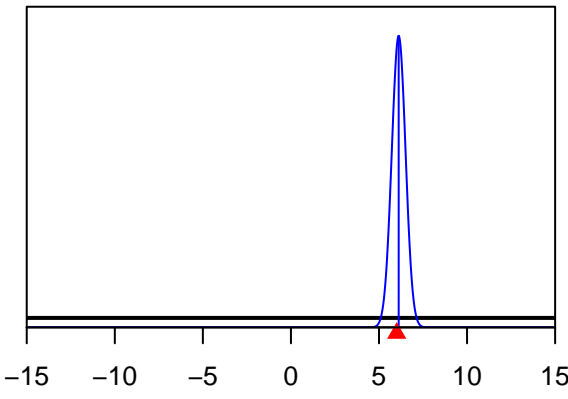
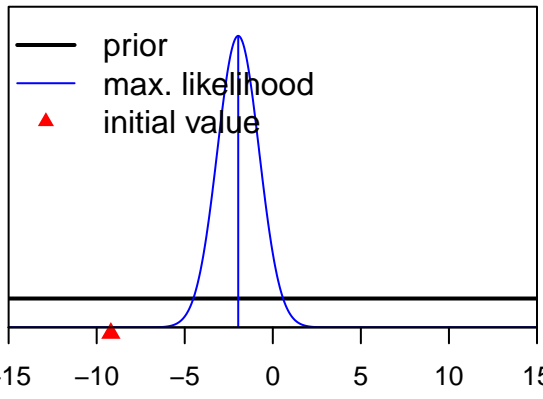
Size_DbIN_ascend_se_A3-NOADEL(20)

Size_DbIN_peak_EPO-LL-survey-early(24)



Parameter value

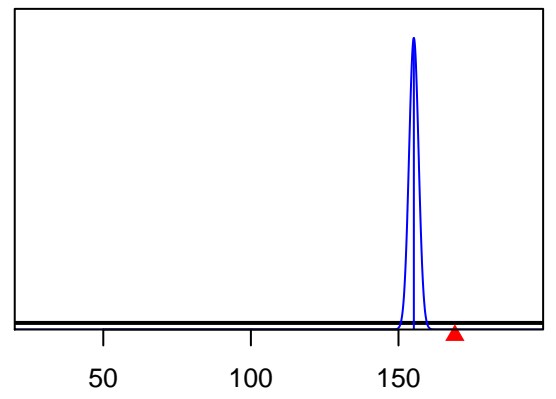
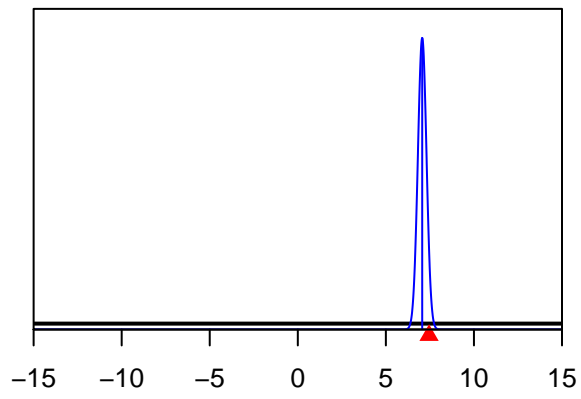
Size_DbIN_top_logit_EPO-LL-survey-early(24) Size_DbIN_descend_se_EPO-LL-survey-early(24)



Density

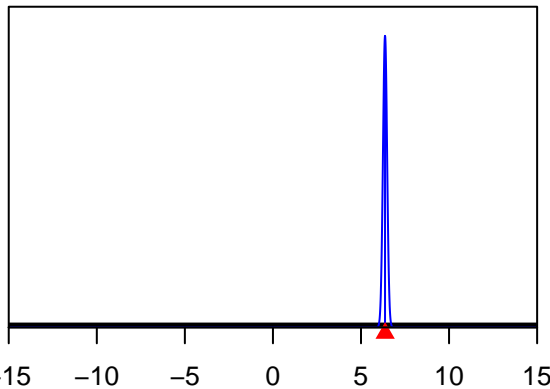
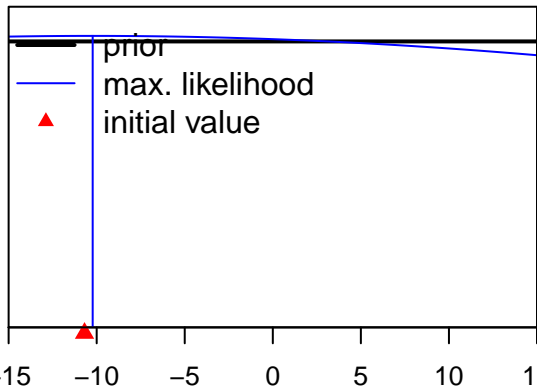
Size_DbIN_ascend_se_EPO-LL-survey-early(24)

Size_DbIN_peak_EPO-LL-survey-late(25)

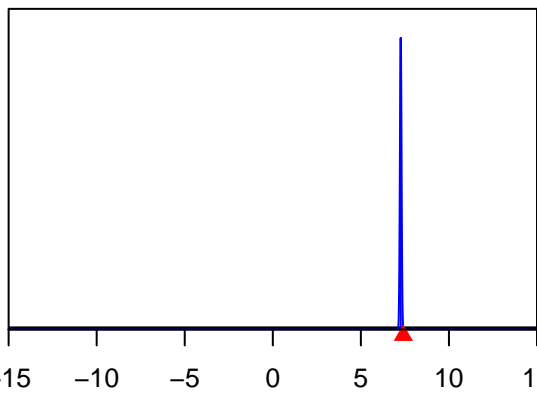


Parameter value

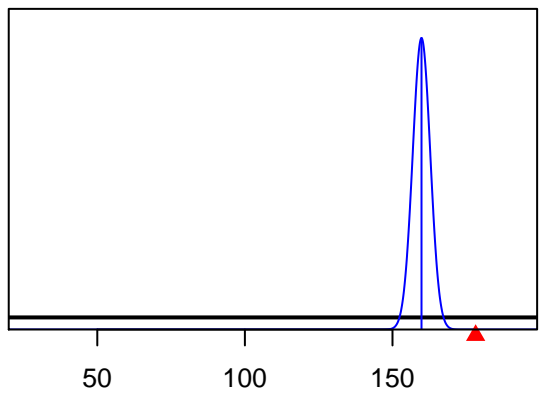
Size_DbIN_top_logit_EPO-LL-survey-late(25) Size_DbIN_descend_se_EPO-LL-survey-late(25)



Size_DbIN_ascend_se_EPO-LL-survey-late(25)



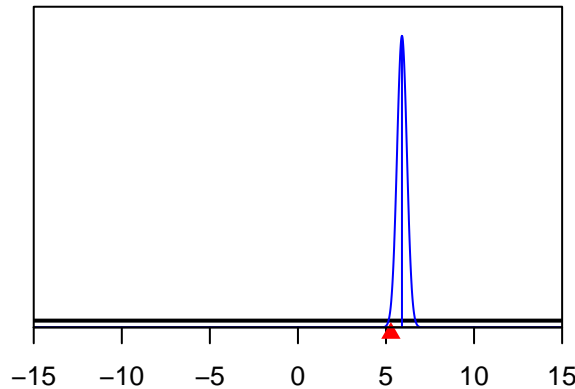
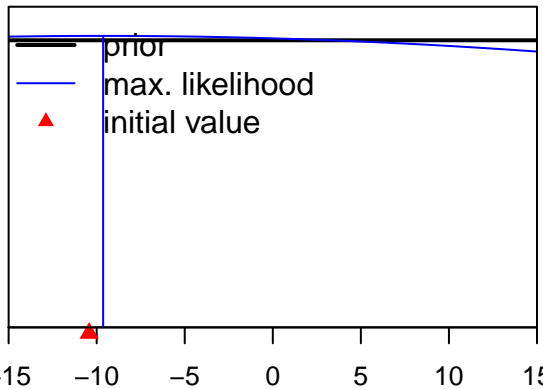
Size_DbIN_peak_A2-LL-n(2)_BLK2repl_17



Density

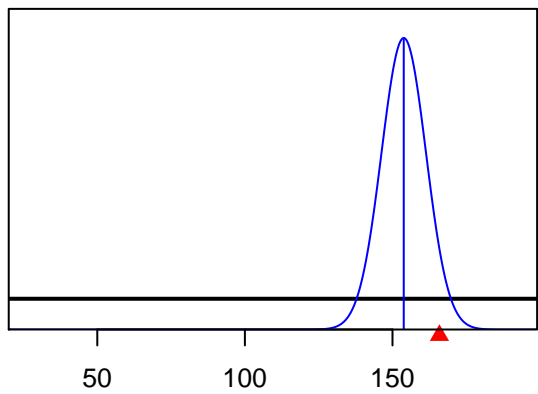
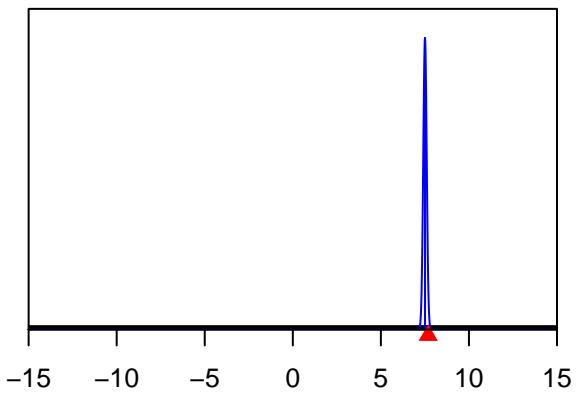
Parameter value

Size_DbIN_top_logit_A2-LL-n(2)_BLK2repl_17ze_DbIN_descend_se_A2-LL-n(2)_BLK2repl_1



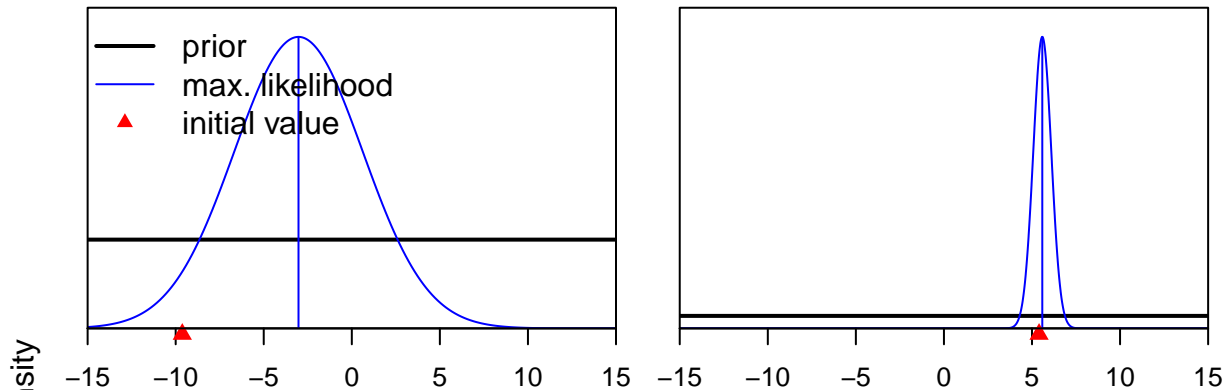
ize_DbIN_ascend_se_A2-LL-n(2)_BLK2repl_1

Size_DbIN_peak_A3-LL-n(3)_BLK2repl_17

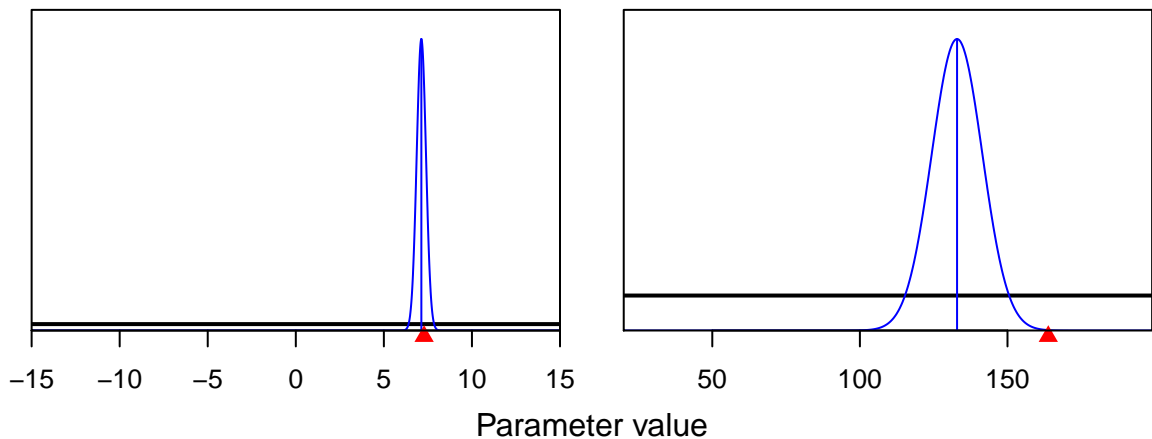


Parameter value

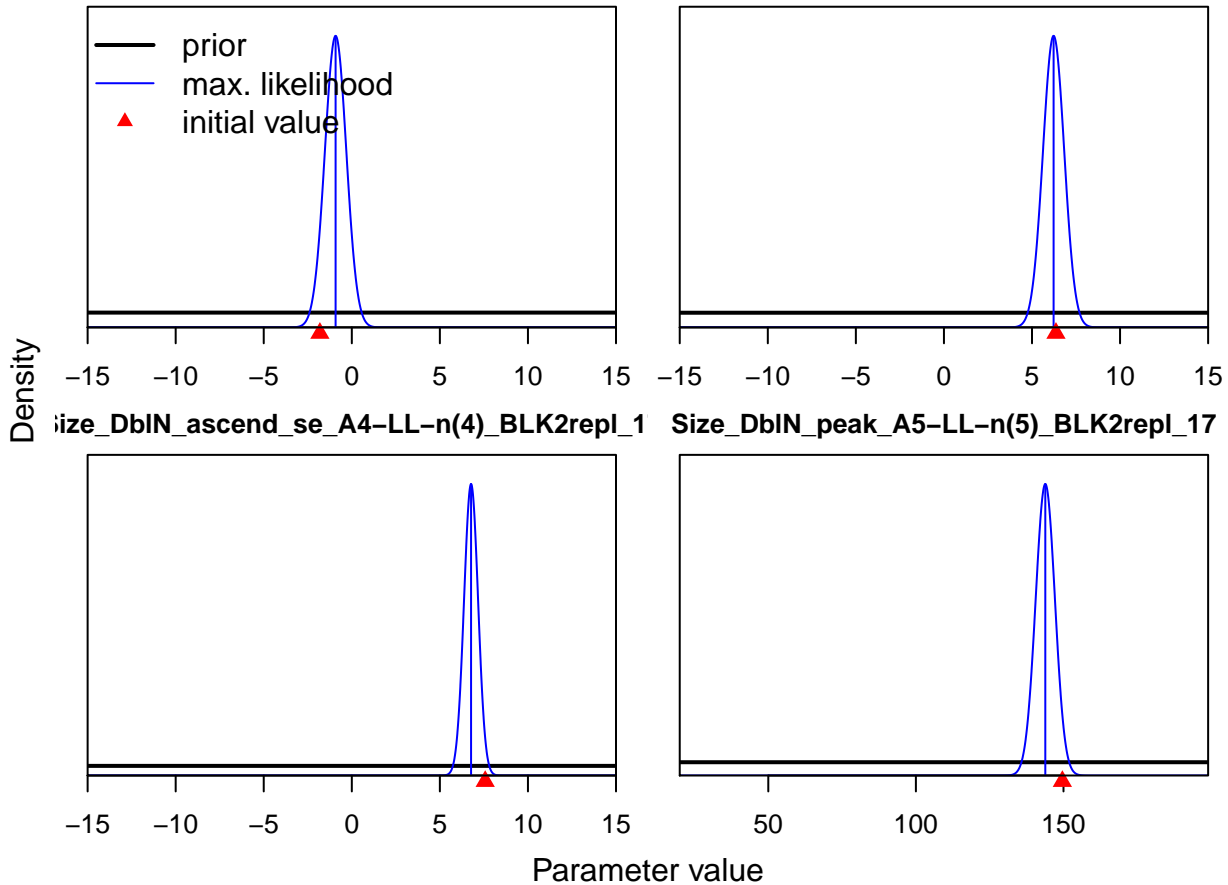
Size_DbIN_top_logit_A3-LL-n(3)_BLK2repl_17ze_DbIN_descend_se_A3-LL-n(3)_BLK2repl_1



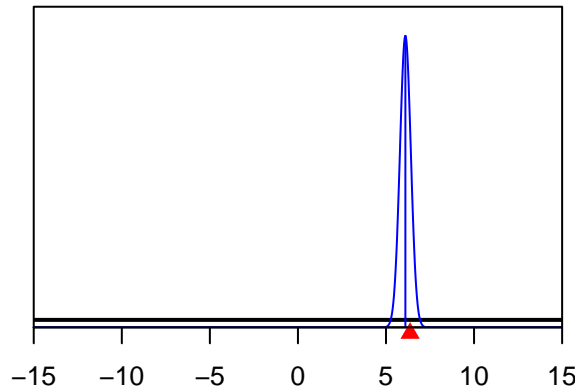
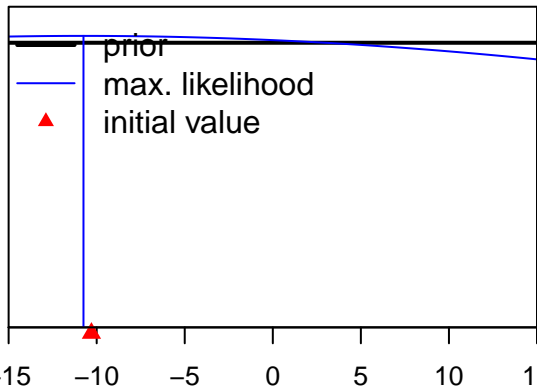
ize_DbIN_ascend_se_A3-LL-n(3)_BLK2repl_1 Size_DbIN_peak_A4-LL-n(4)_BLK2repl_17



Size_DbIN_top_logit_A4-LL-n(4)_BLK2repl_17ze_DbIN_descend_se_A4-LL-n(4)_BLK2repl_1

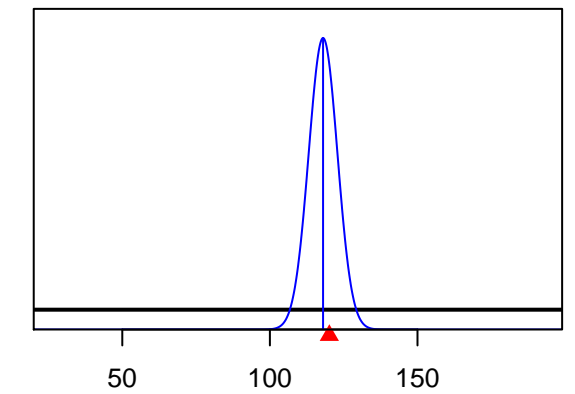
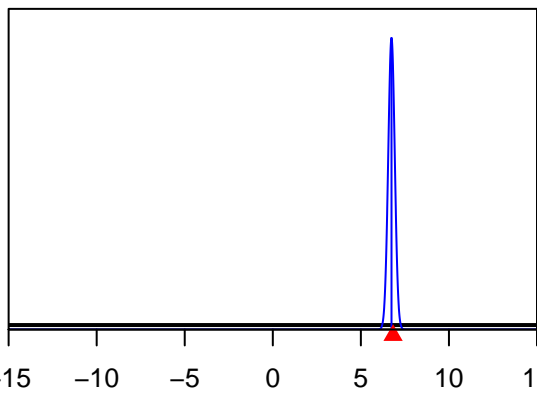


Size_DbIN_top_logit_A5-LL-n(5)_BLK2repl_17ze_DbIN_descend_se_A5-LL-n(5)_BLK2repl_1



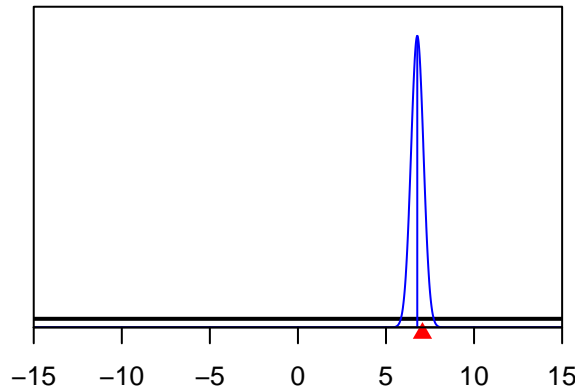
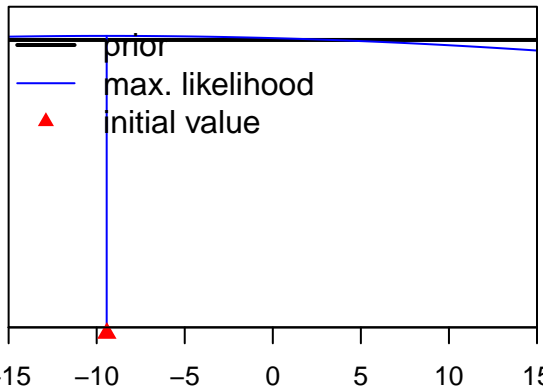
size_DbIN_ascend_se_A5-LL-n(5)_BLK2repl_1

Size_DbIN_peak_A6-LL-n(6)_BLK2repl_17

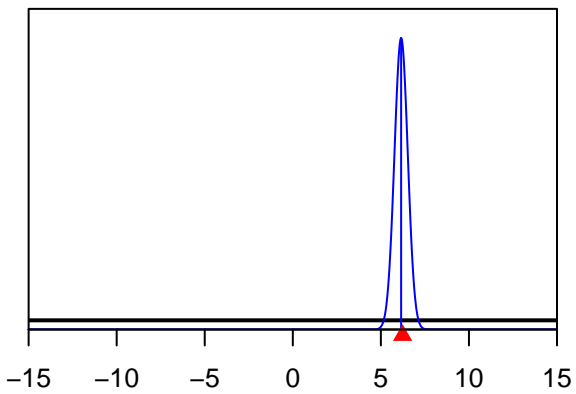


Parameter value

Size_DbIN_top_logit_A6-LL-n(6)_BLK2repl_17ze_DbIN_descend_se_A6-LL-n(6)_BLK2repl_1



size_DbIN_ascend_se_A6-LL-n(6)_BLK2repl_1



Parameter value