

Plots created using the 'r4ss' package in R

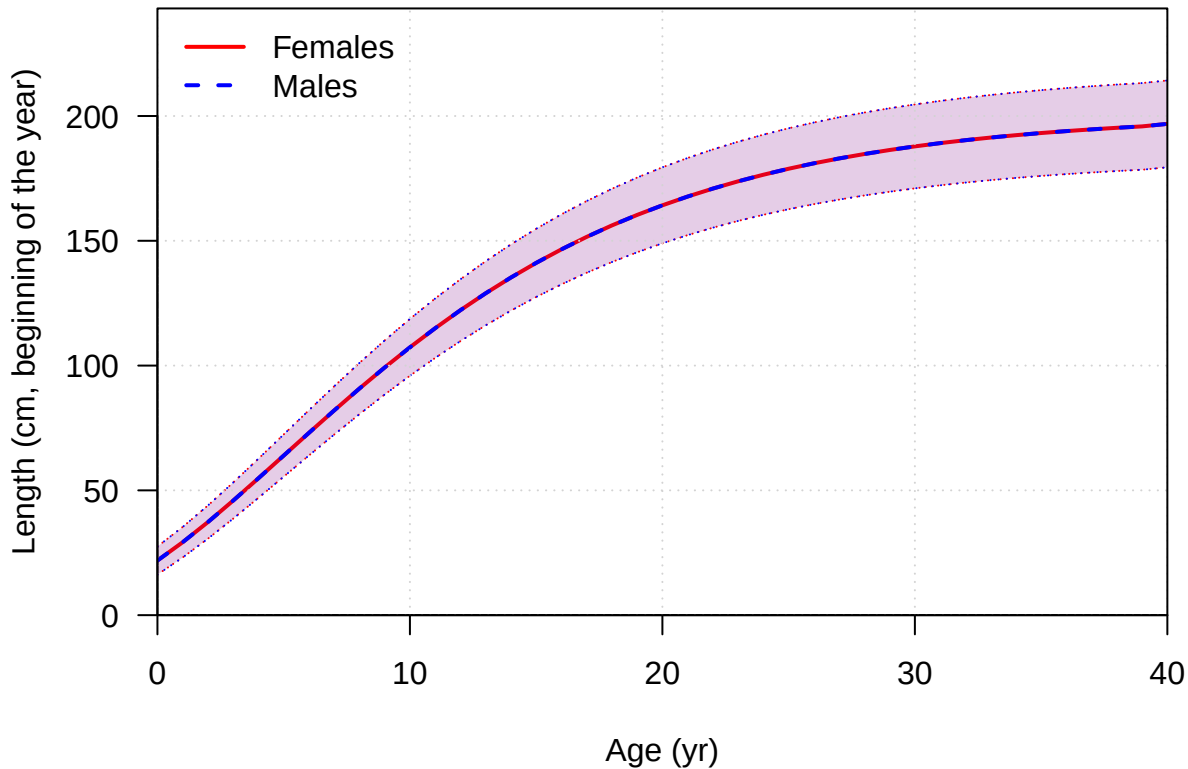
Stock Synthesis version: 3.30.15.0

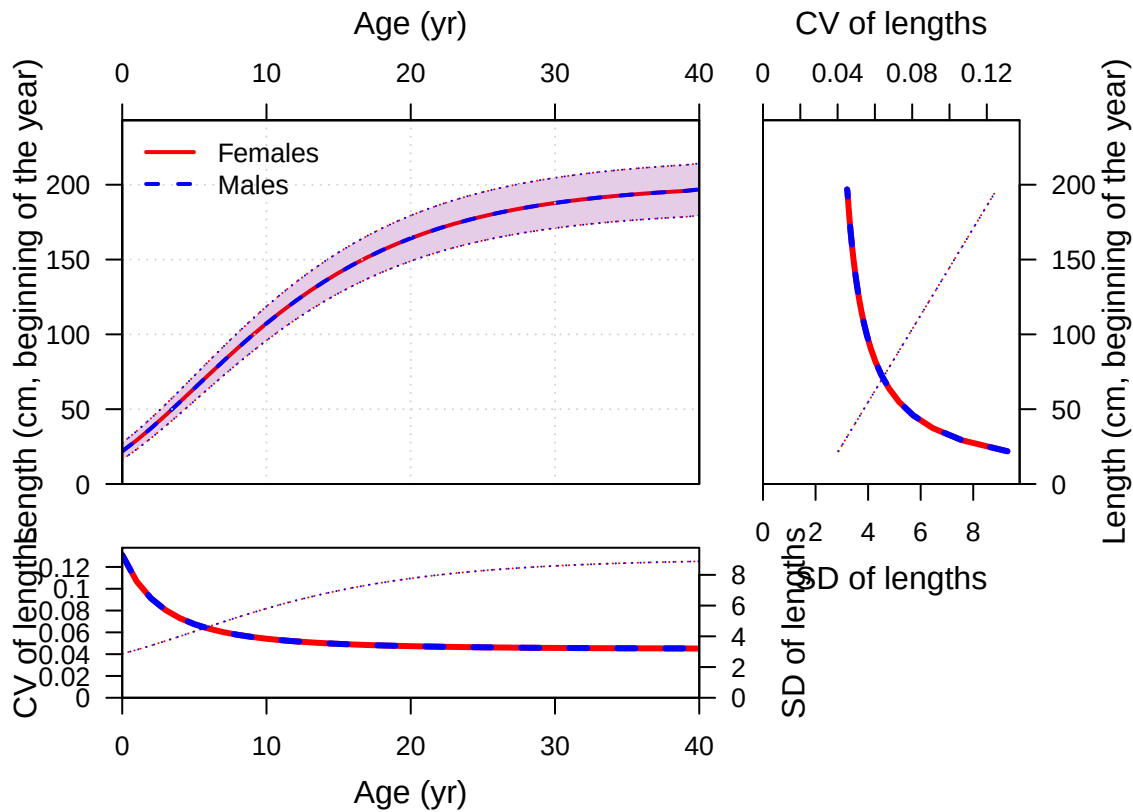
StartTime: Wed May 13 11:47:13 2020

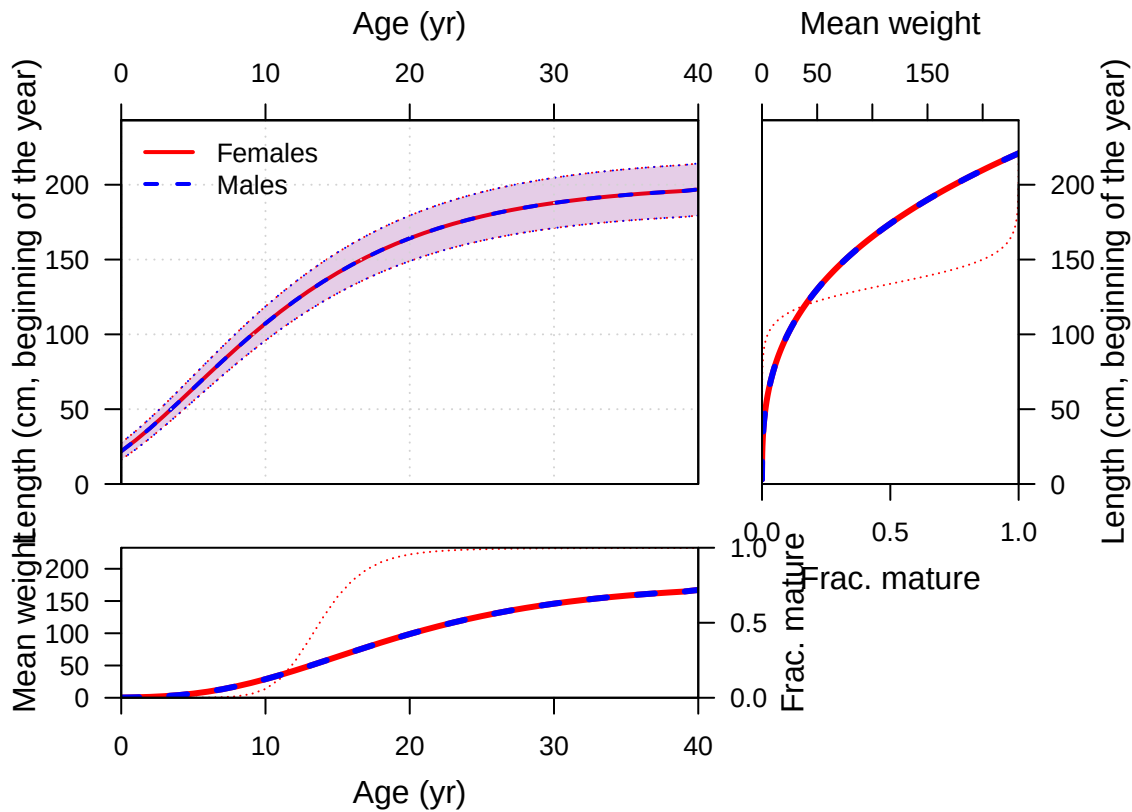
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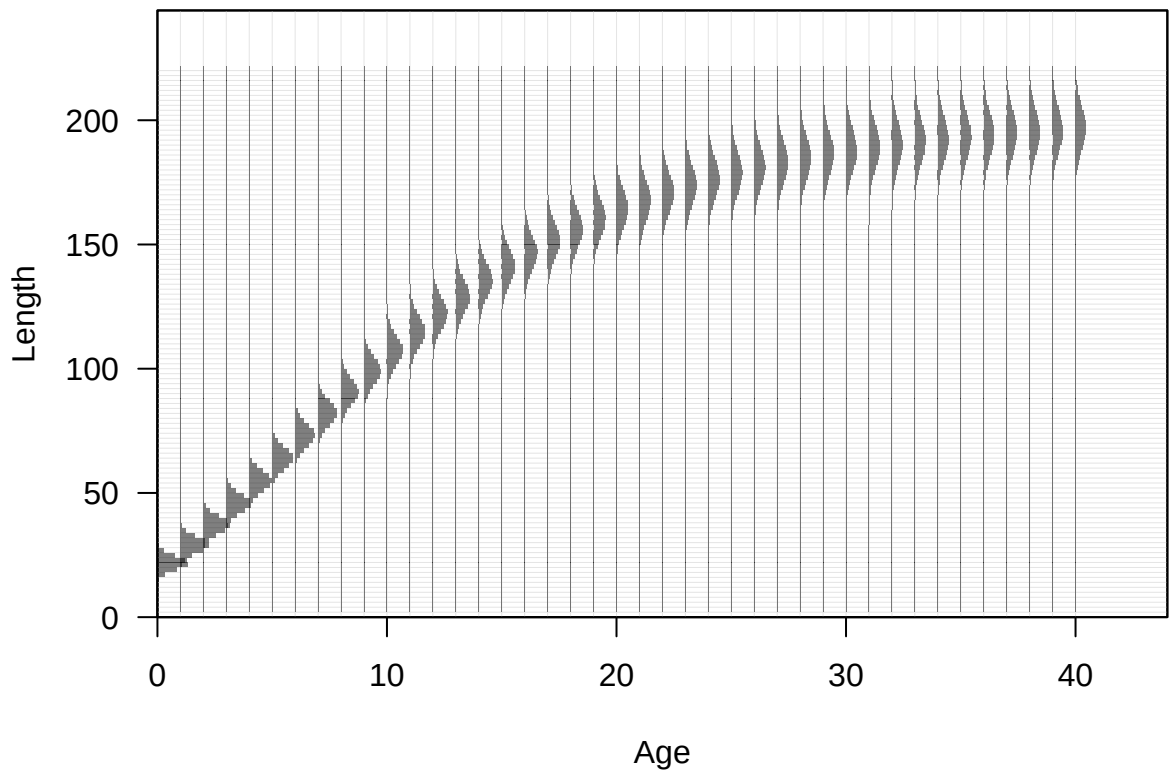
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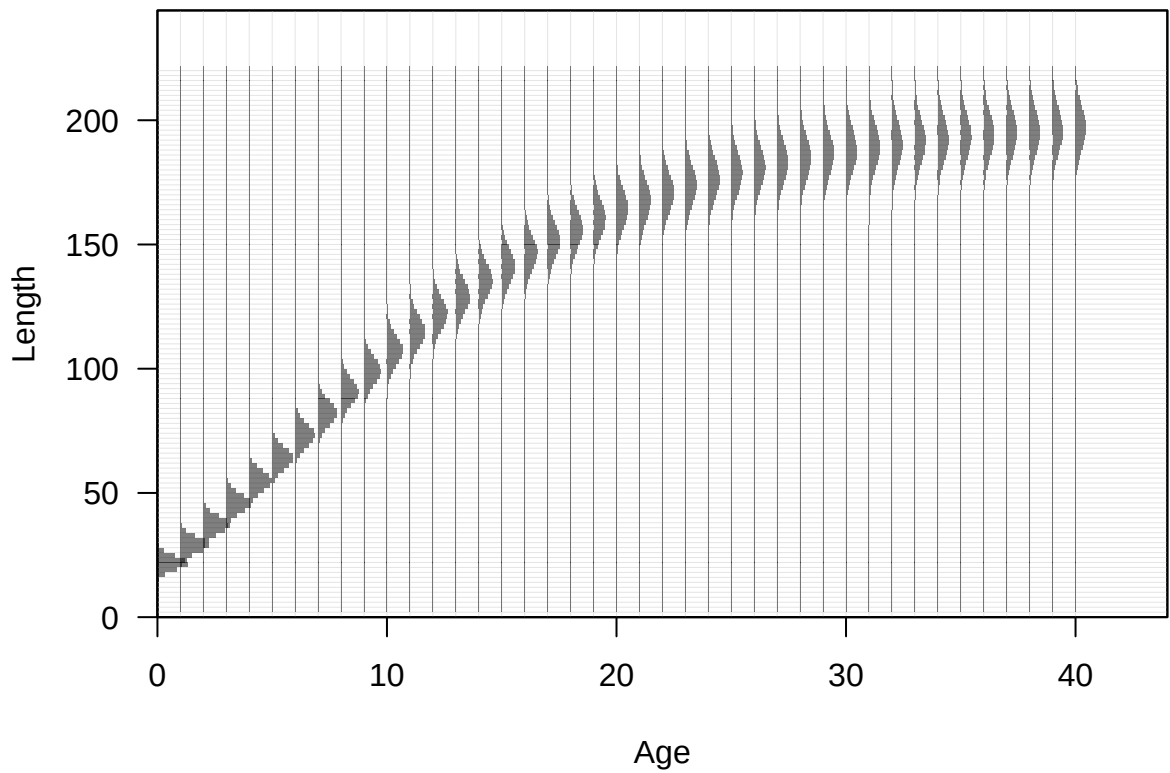
Ending year expected growth (with 95% intervals)

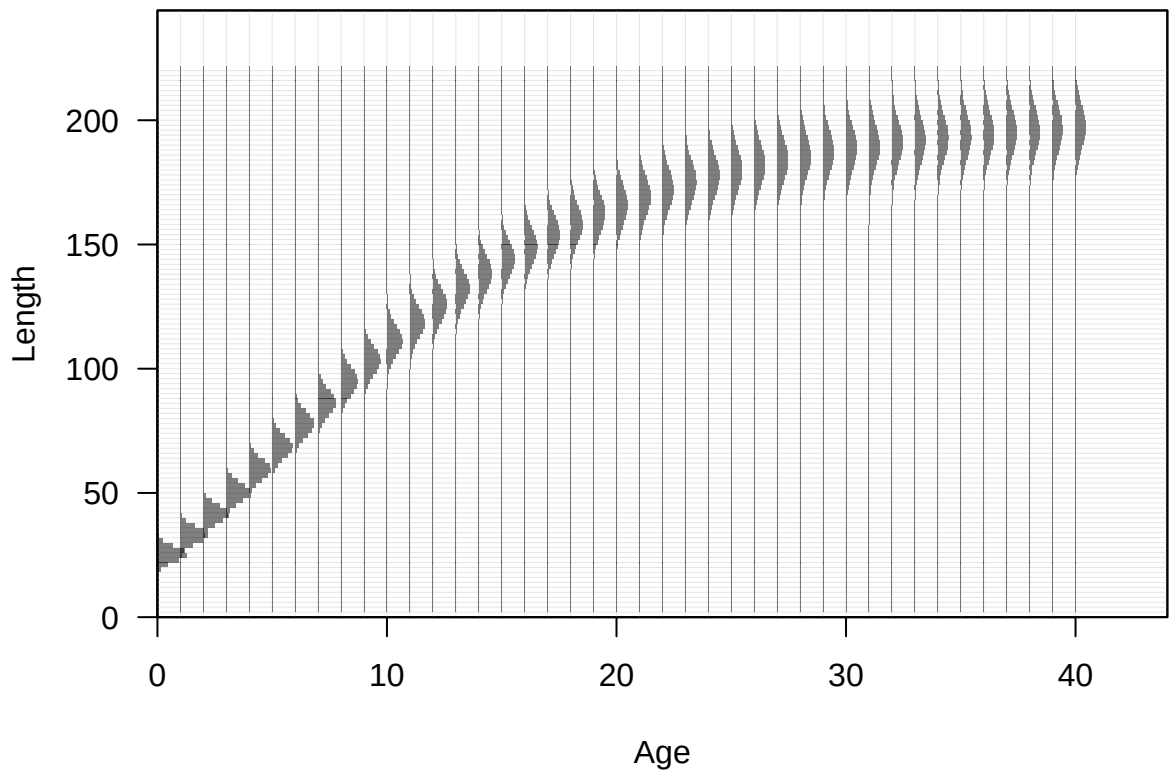


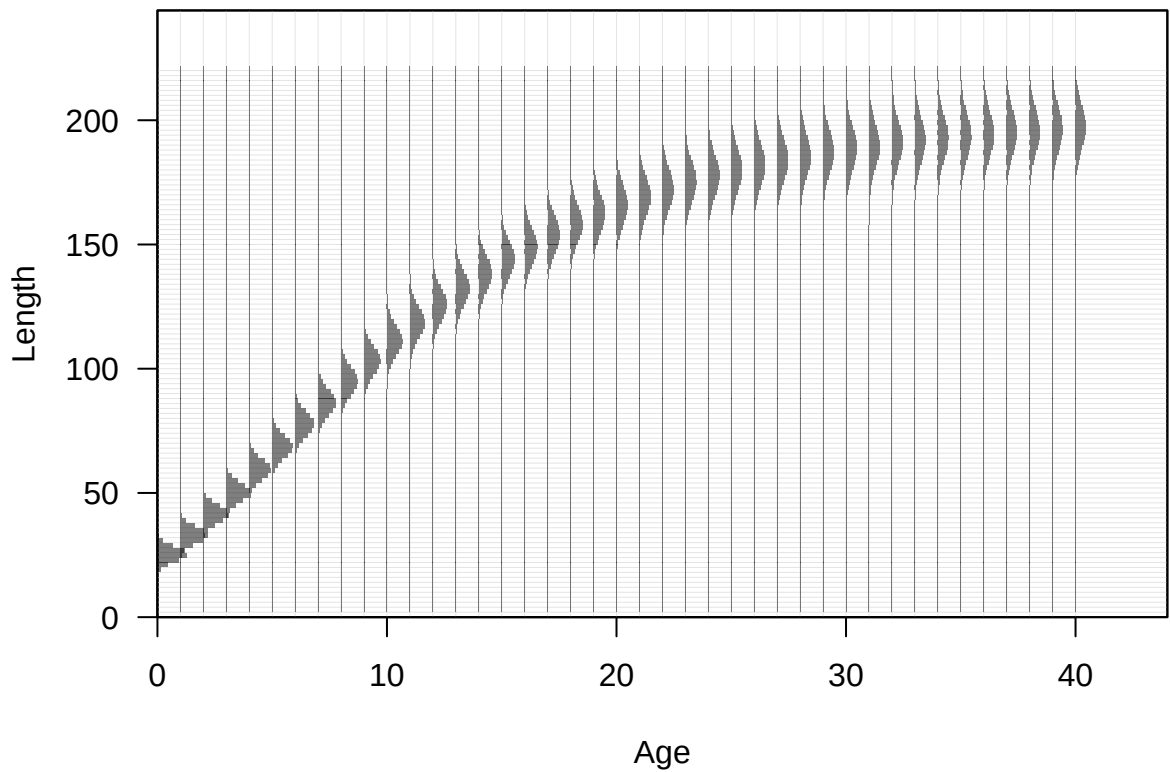


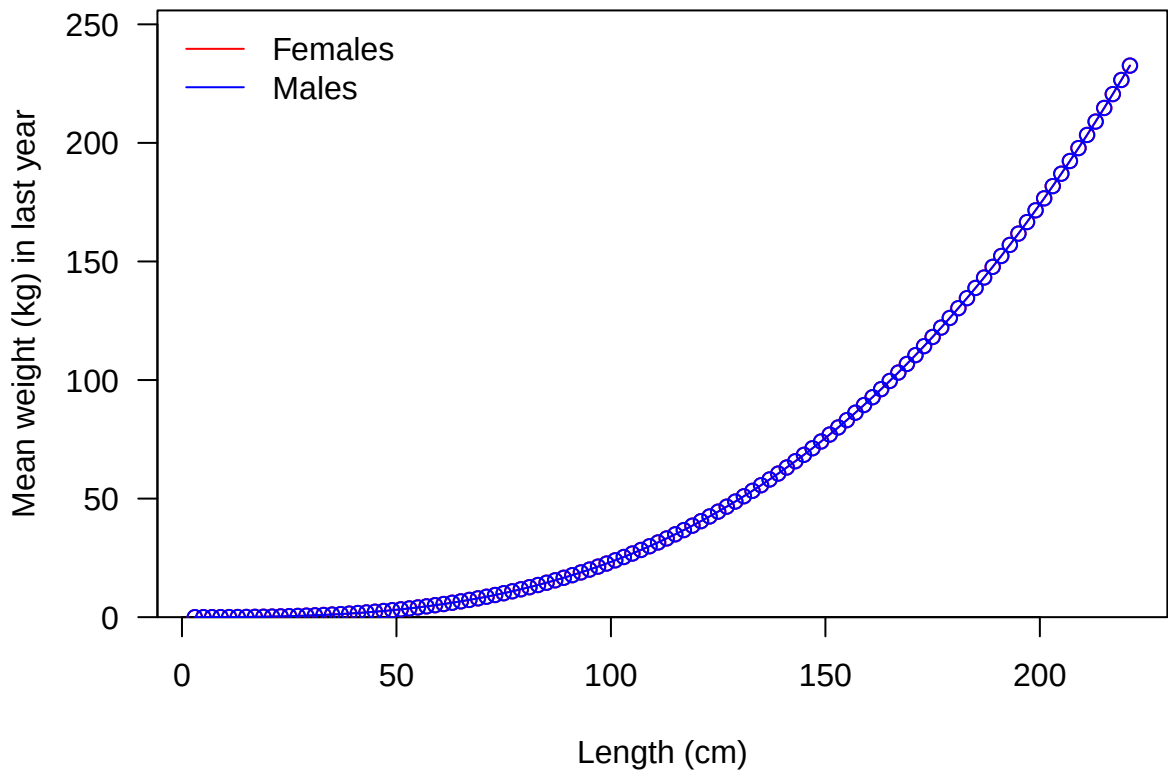


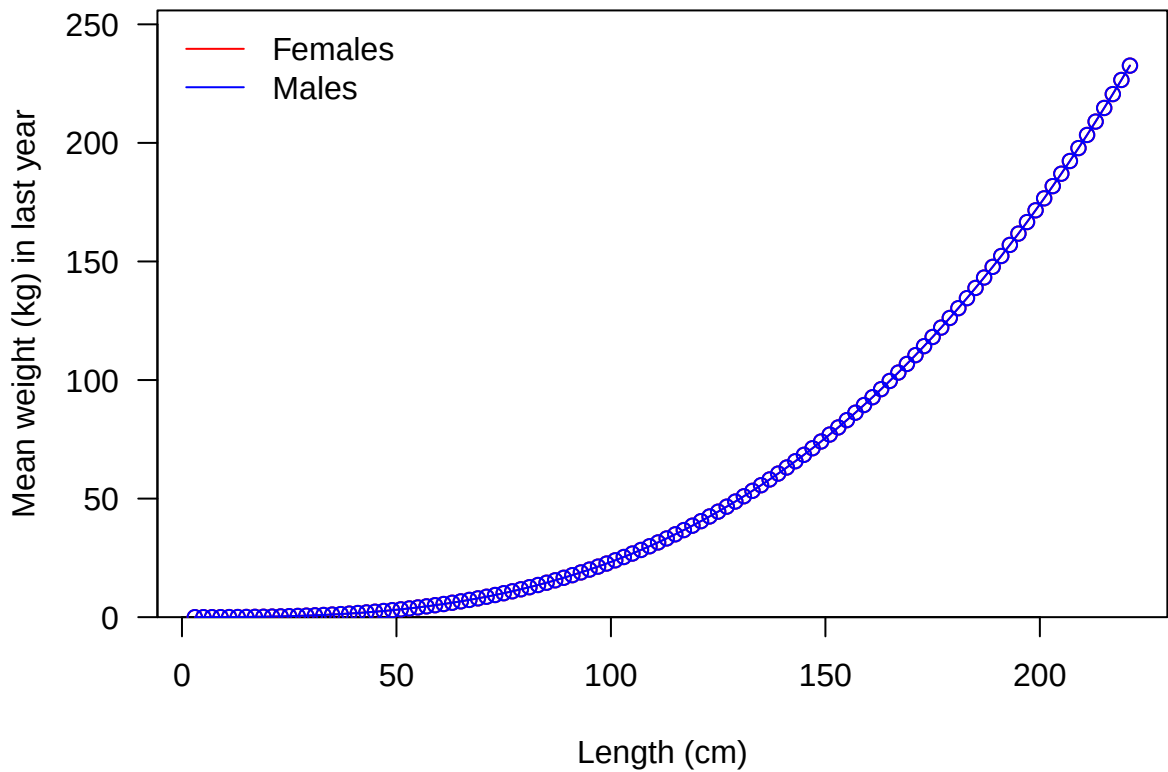


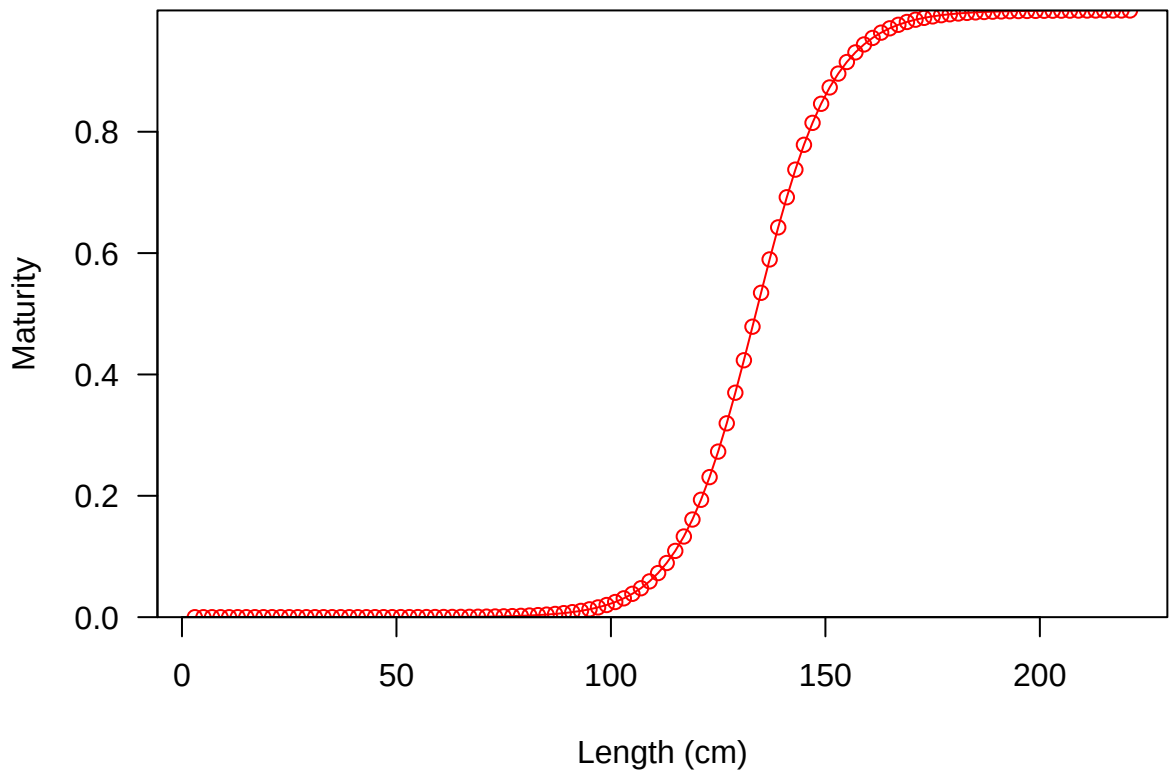


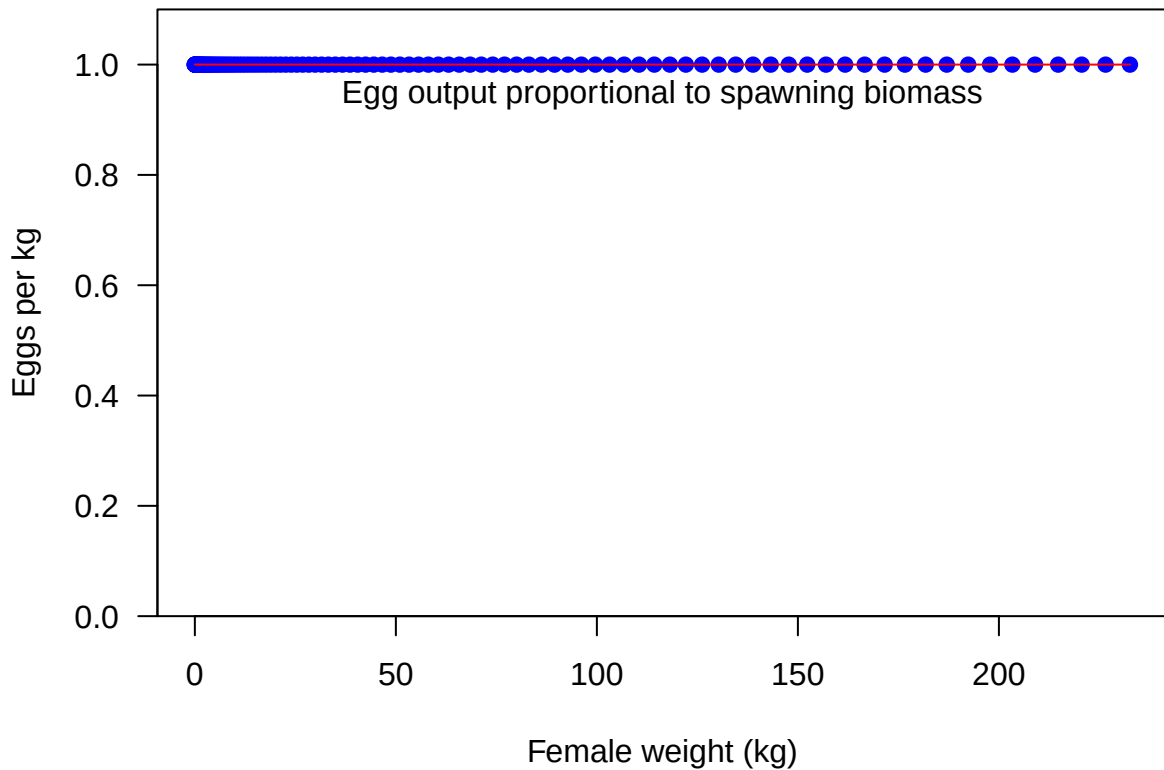


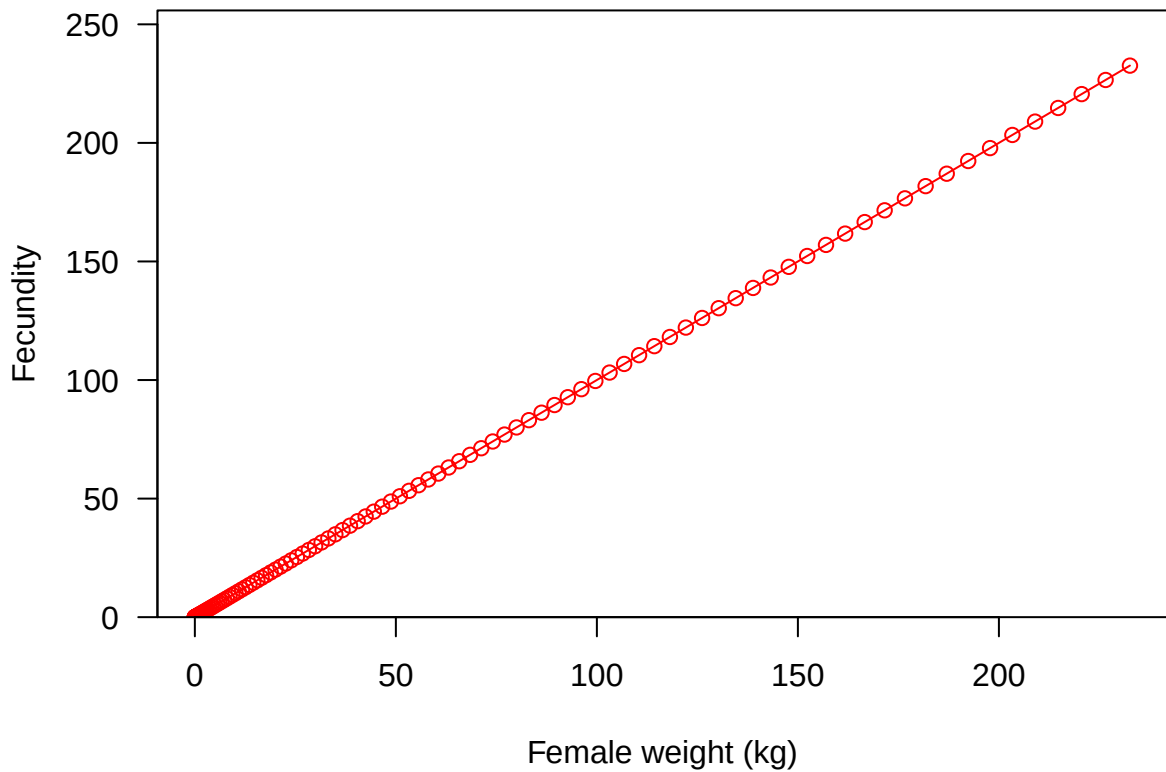


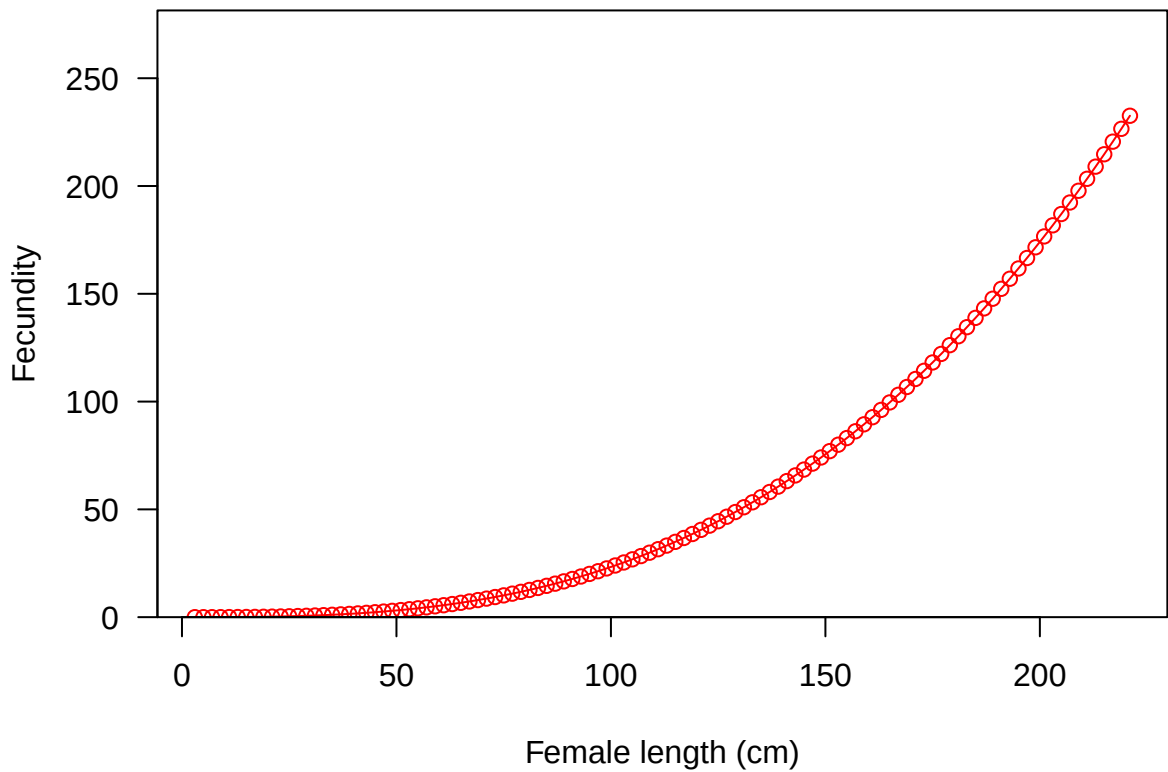


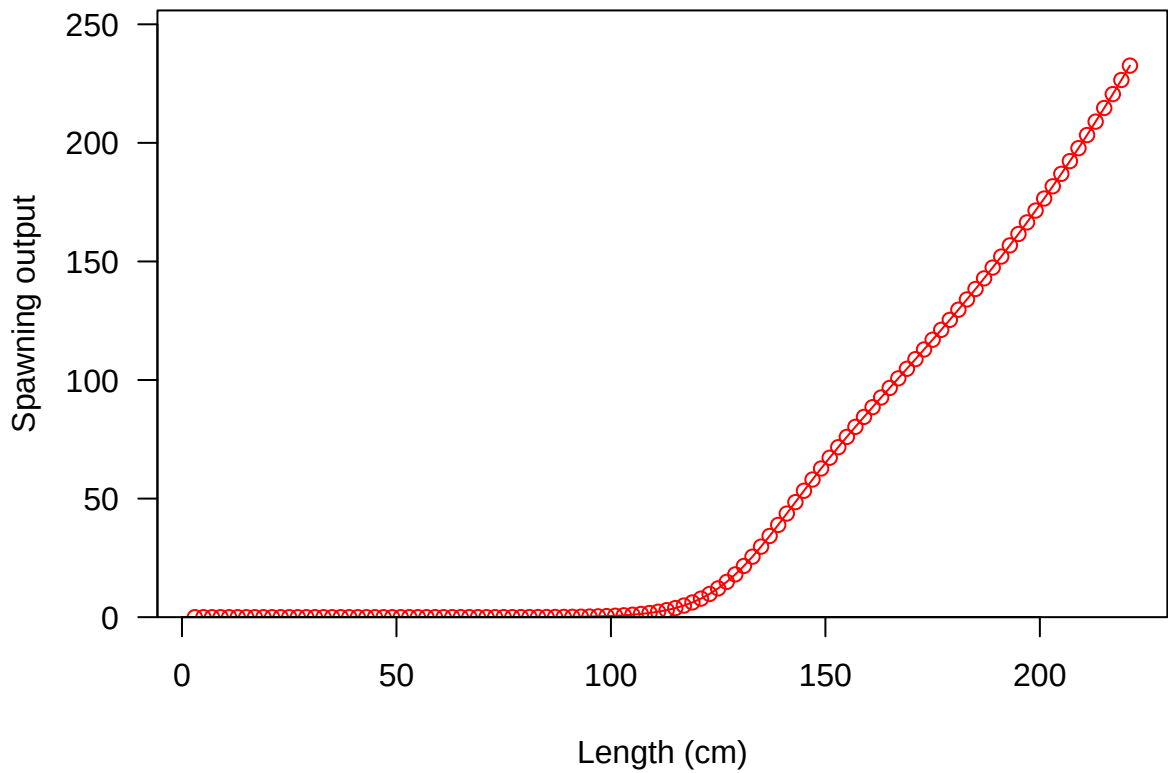


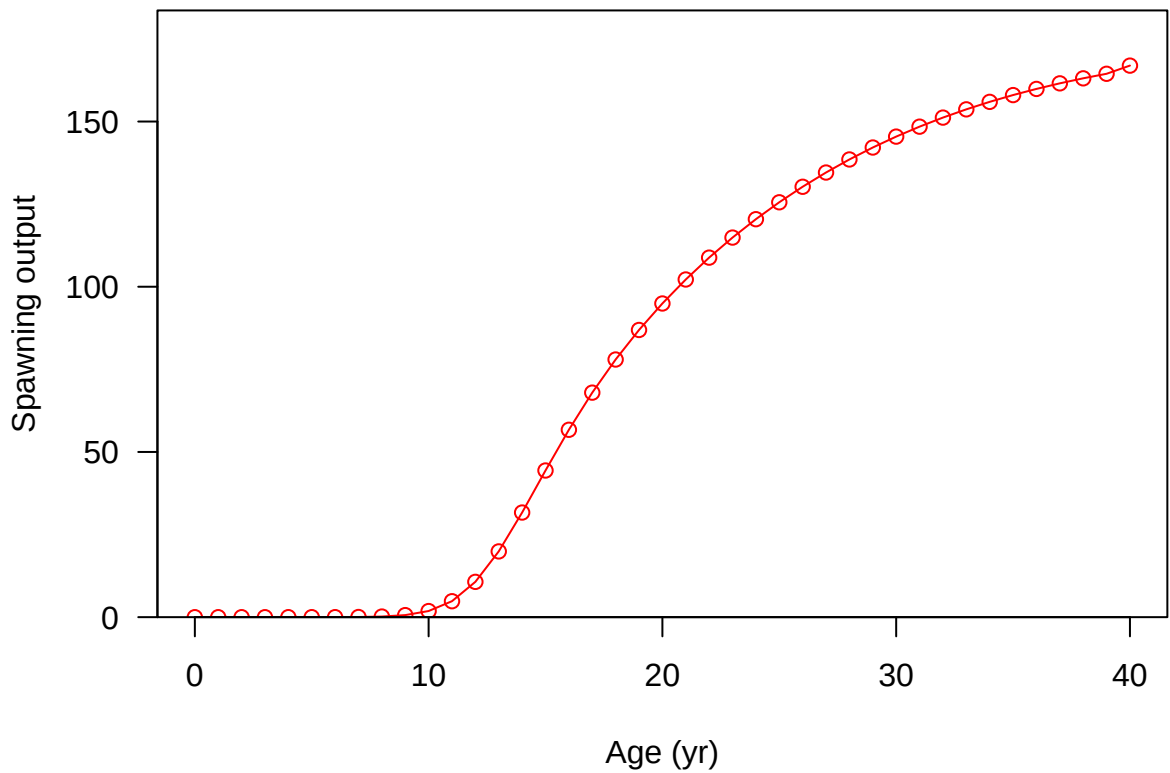


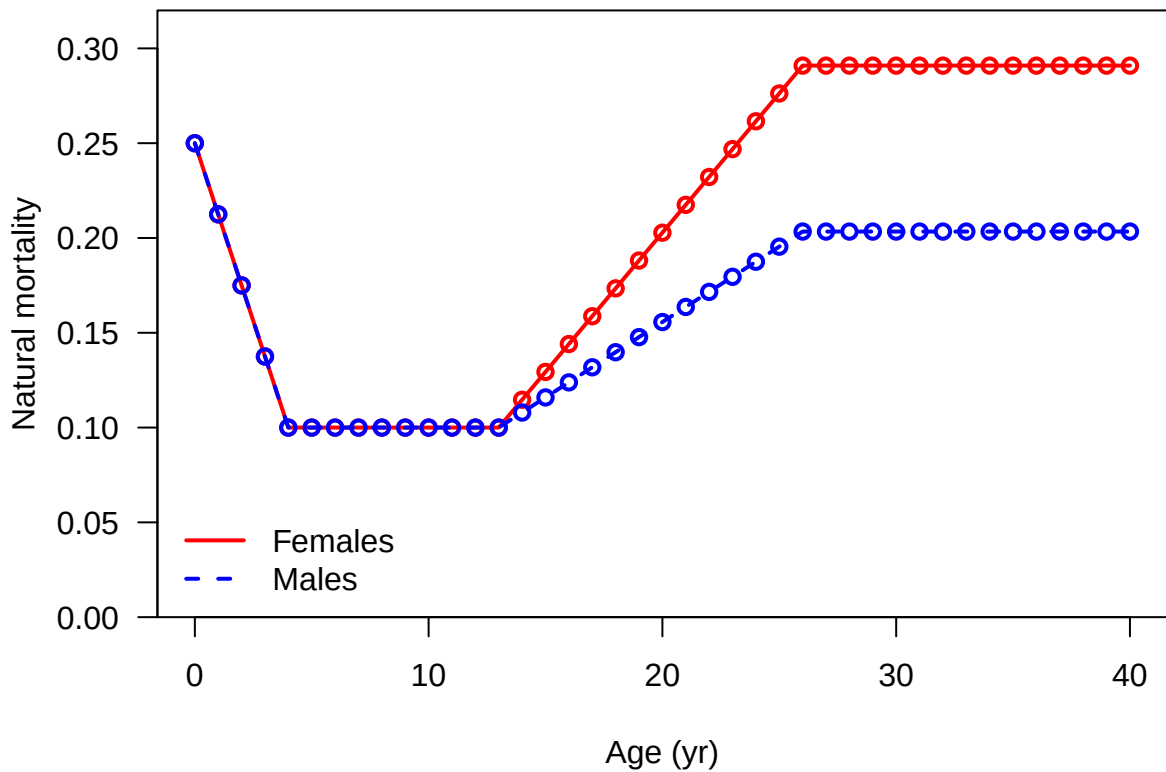




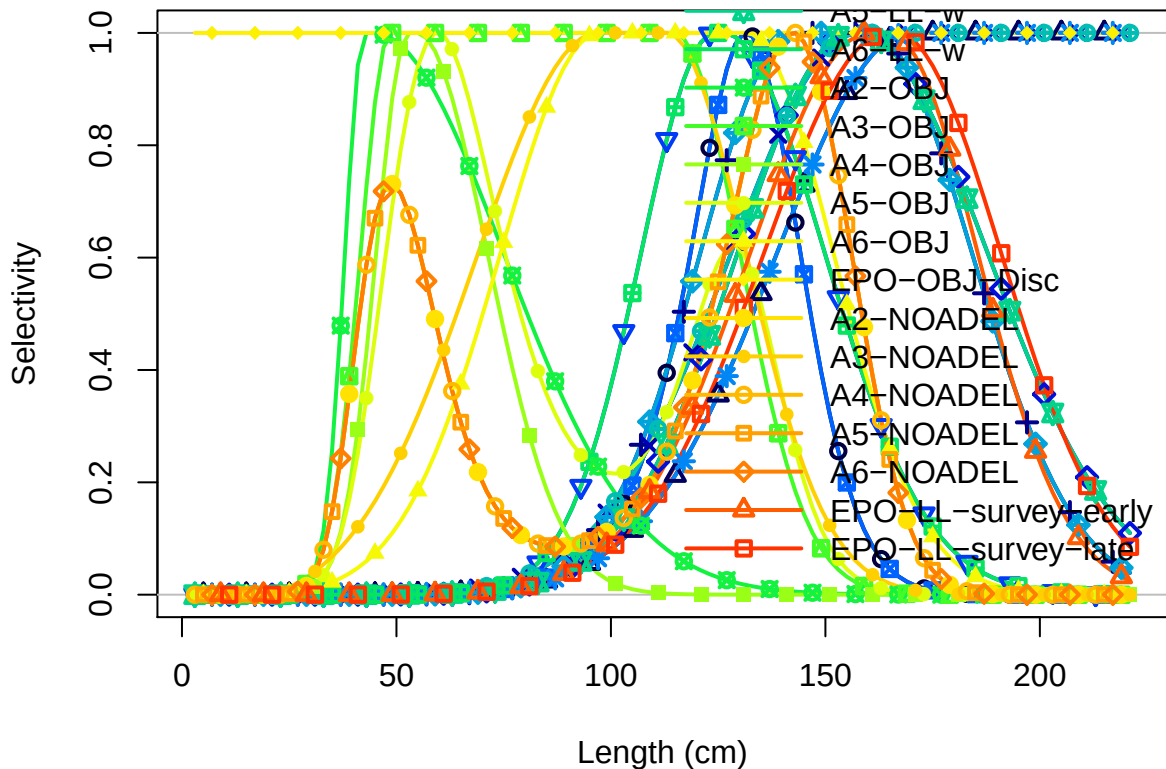




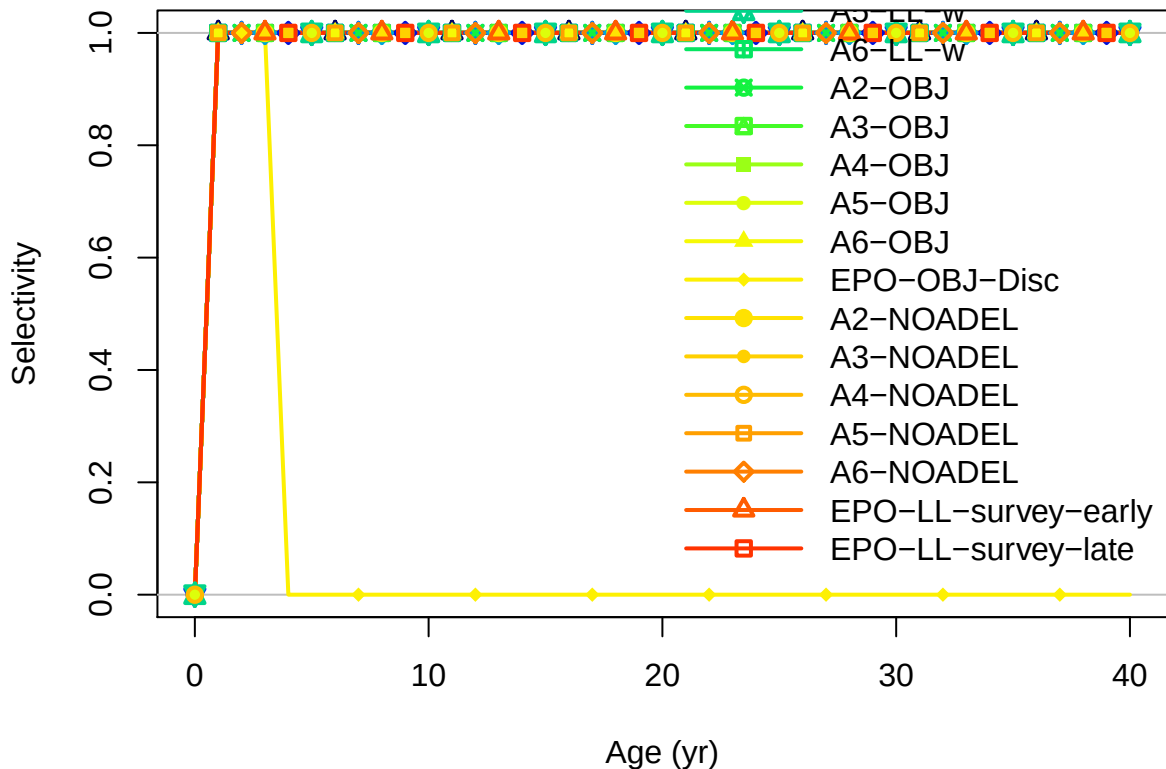




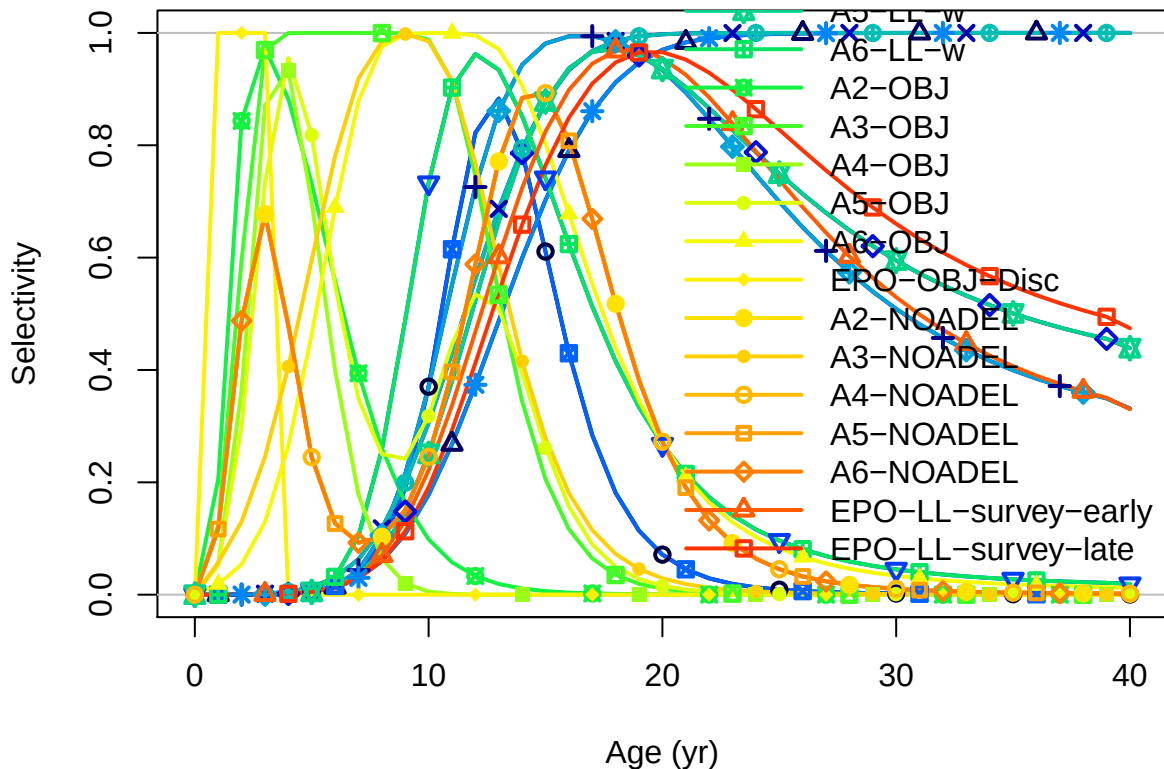
Length-based selectivity by fleet in 180



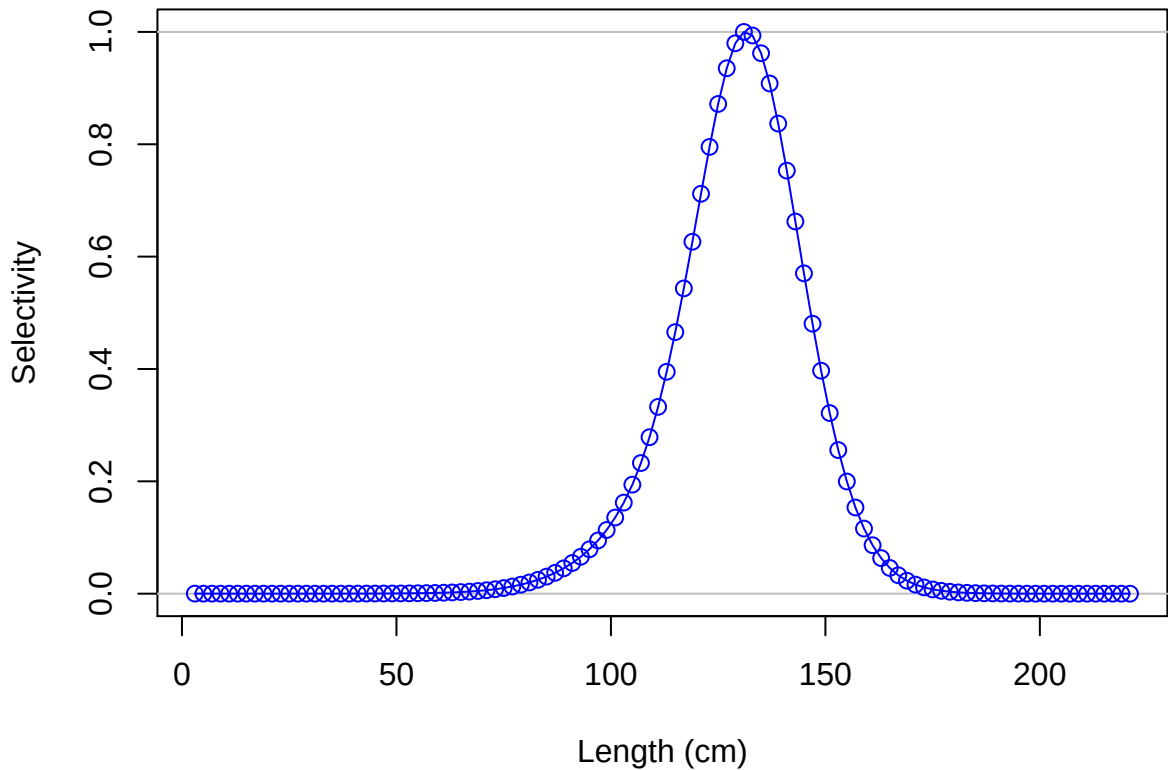
Age-based selectivity by fleet in 180



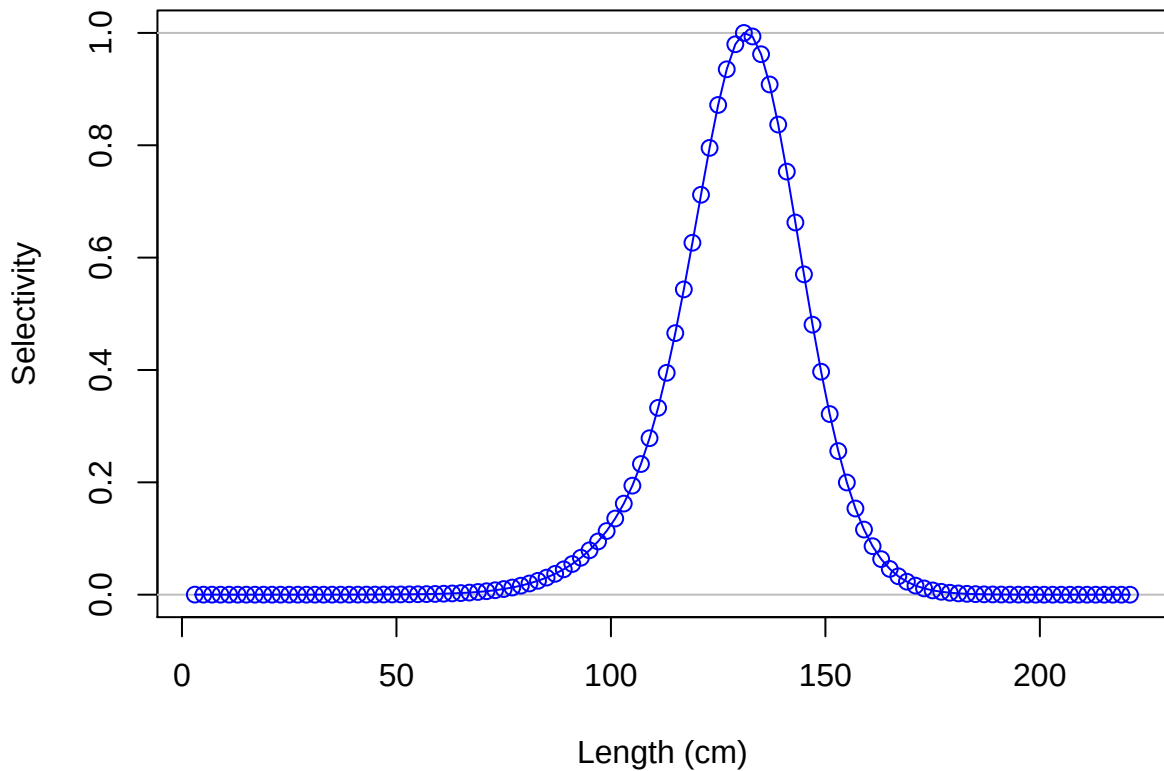
Derived age-based from length-based selectivity by fleet in 180



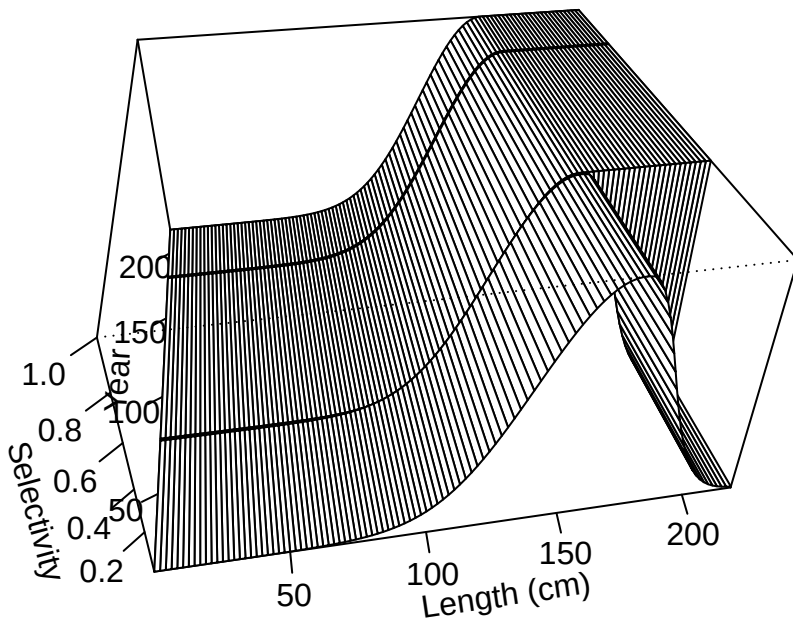
Female ending year selectivity for A1-LL-n



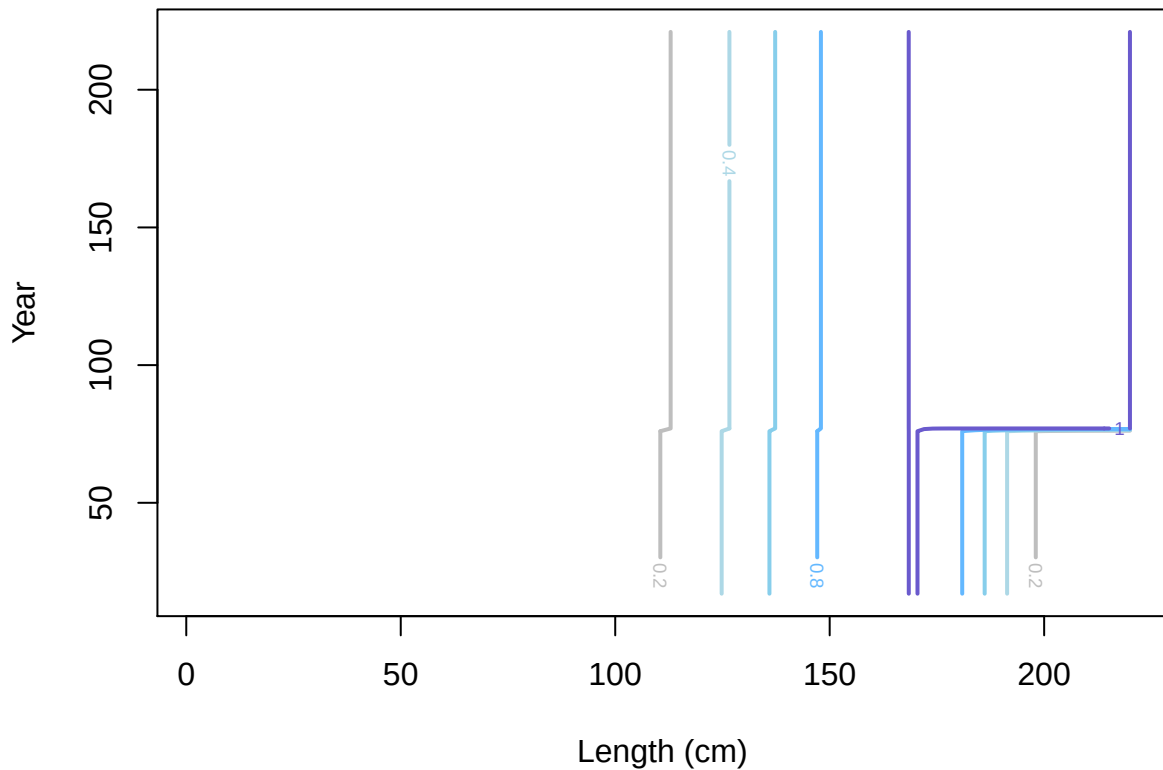
Male ending year selectivity for A1-LL-n



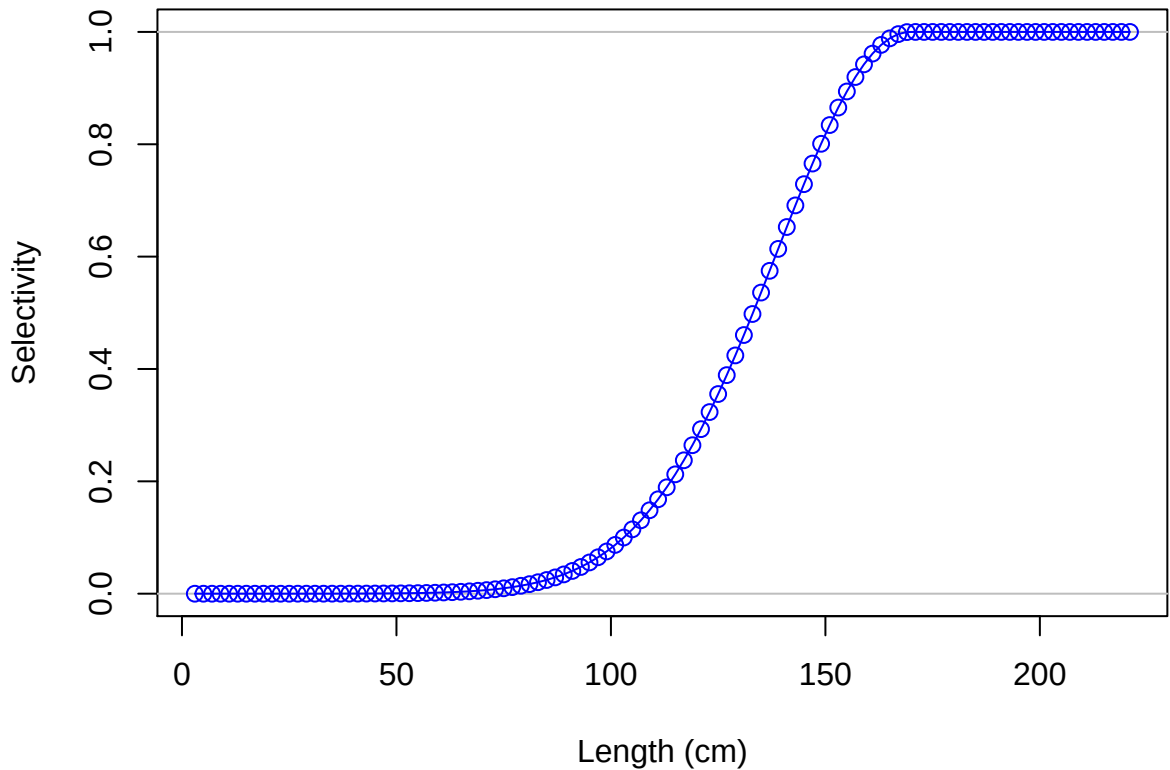
Female time-varying selectivity for A2-LL-n



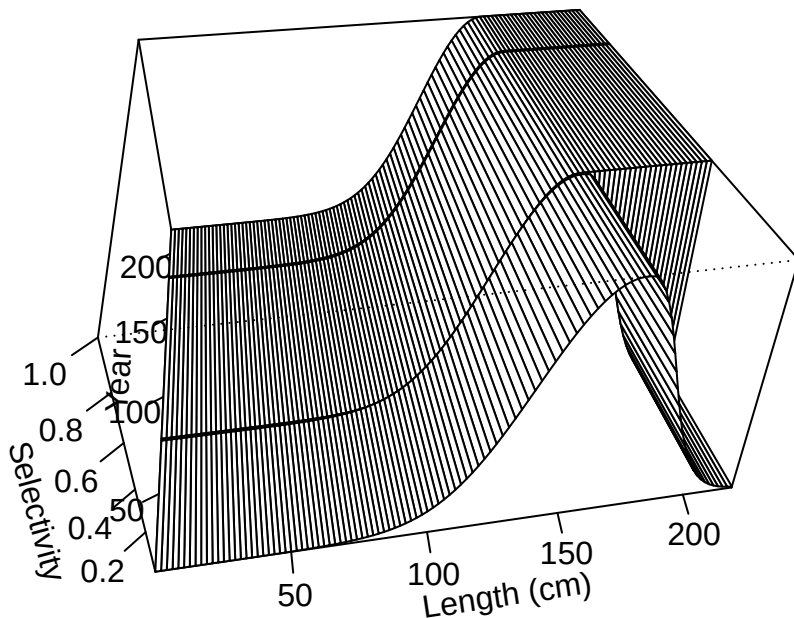
Female time-varying selectivity for A2-LL-n



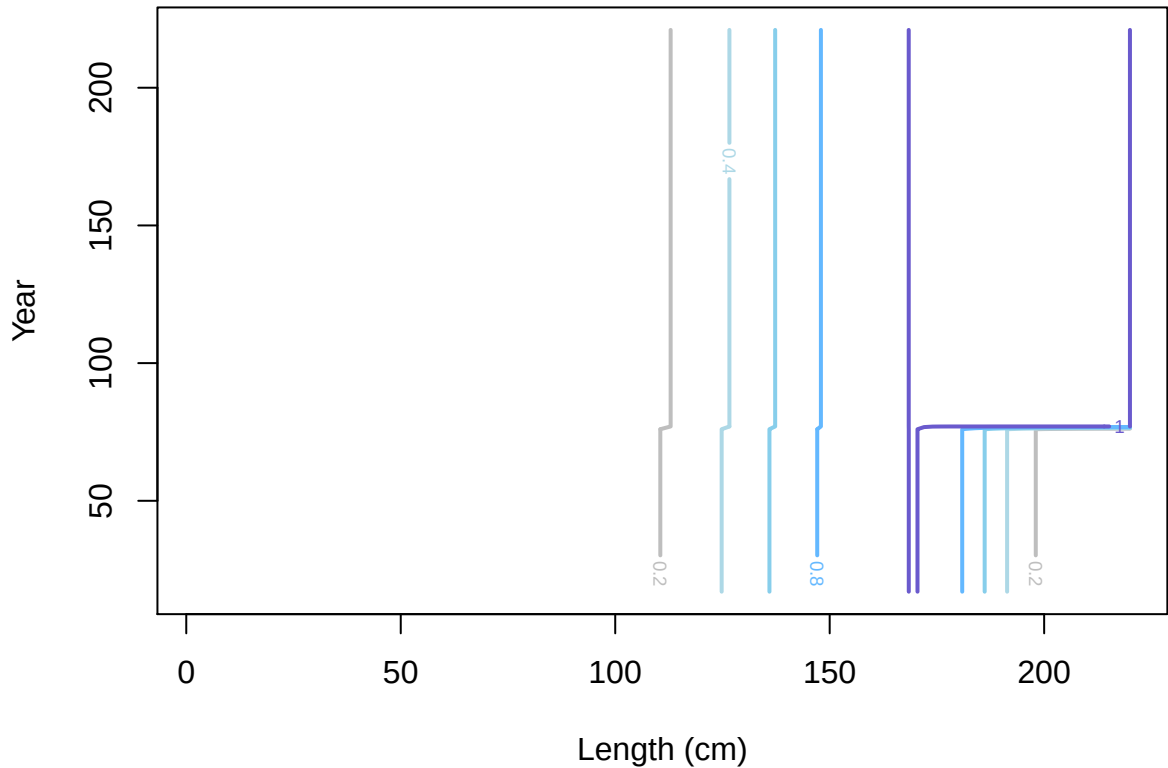
Female ending year selectivity for A2-LL-n



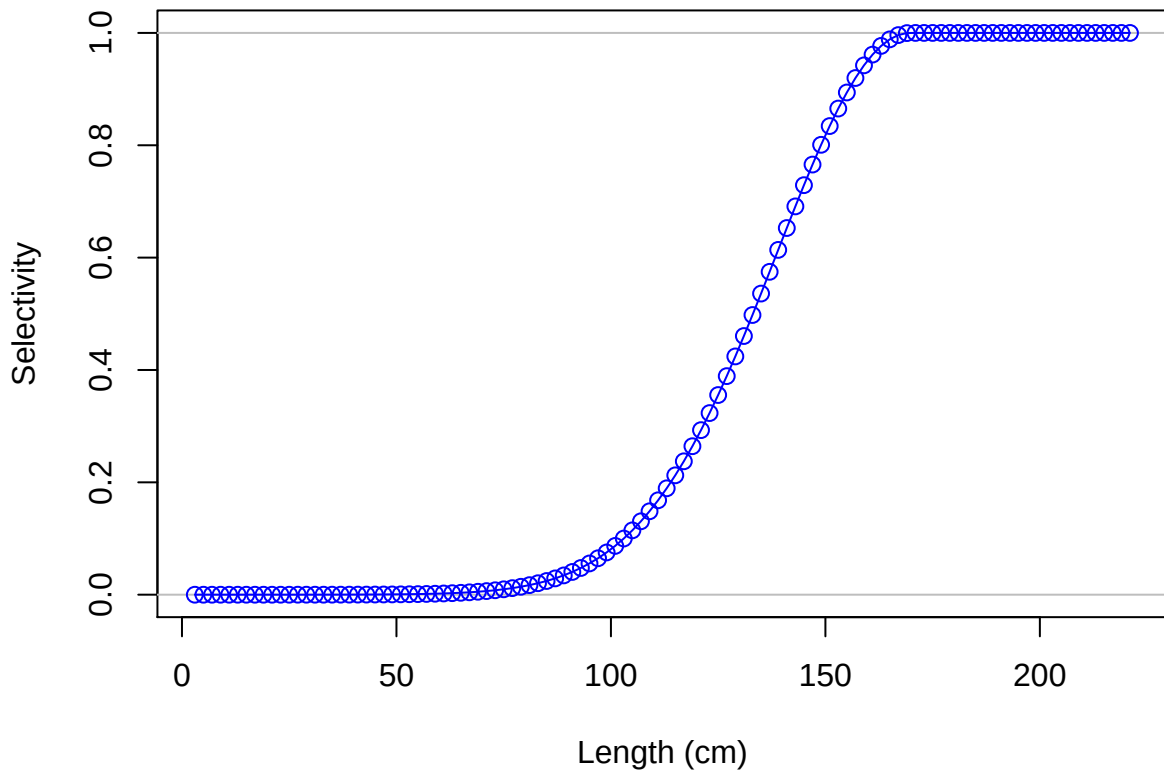
Male time-varying selectivity for A2-LL-n



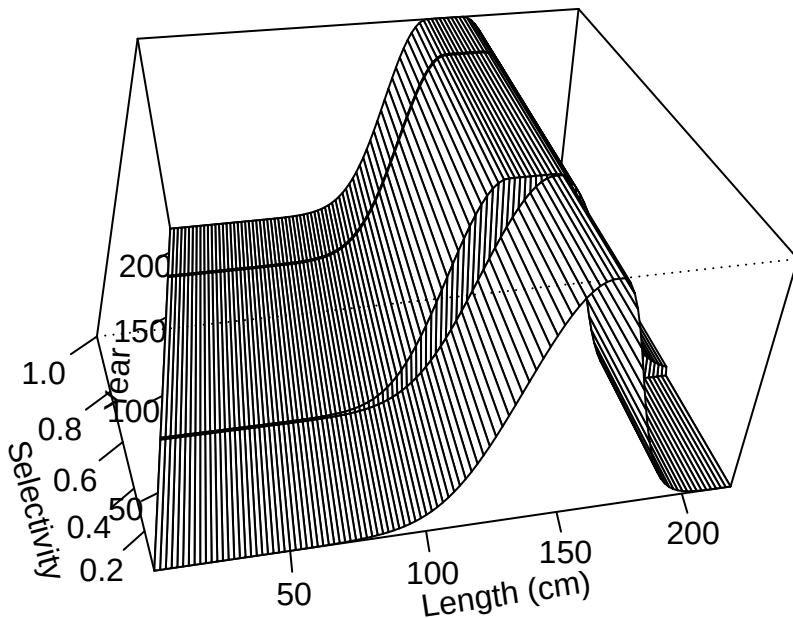
Male time-varying selectivity for A2-LL-n



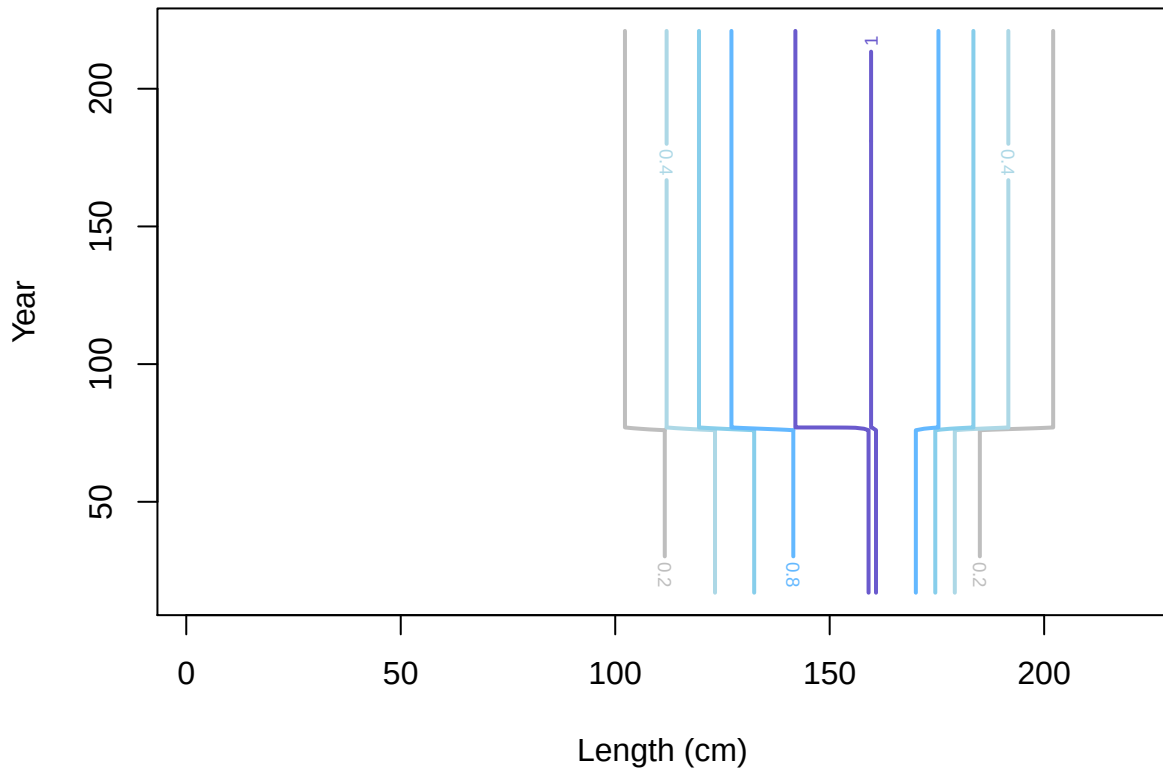
Male ending year selectivity for A2-LL-n



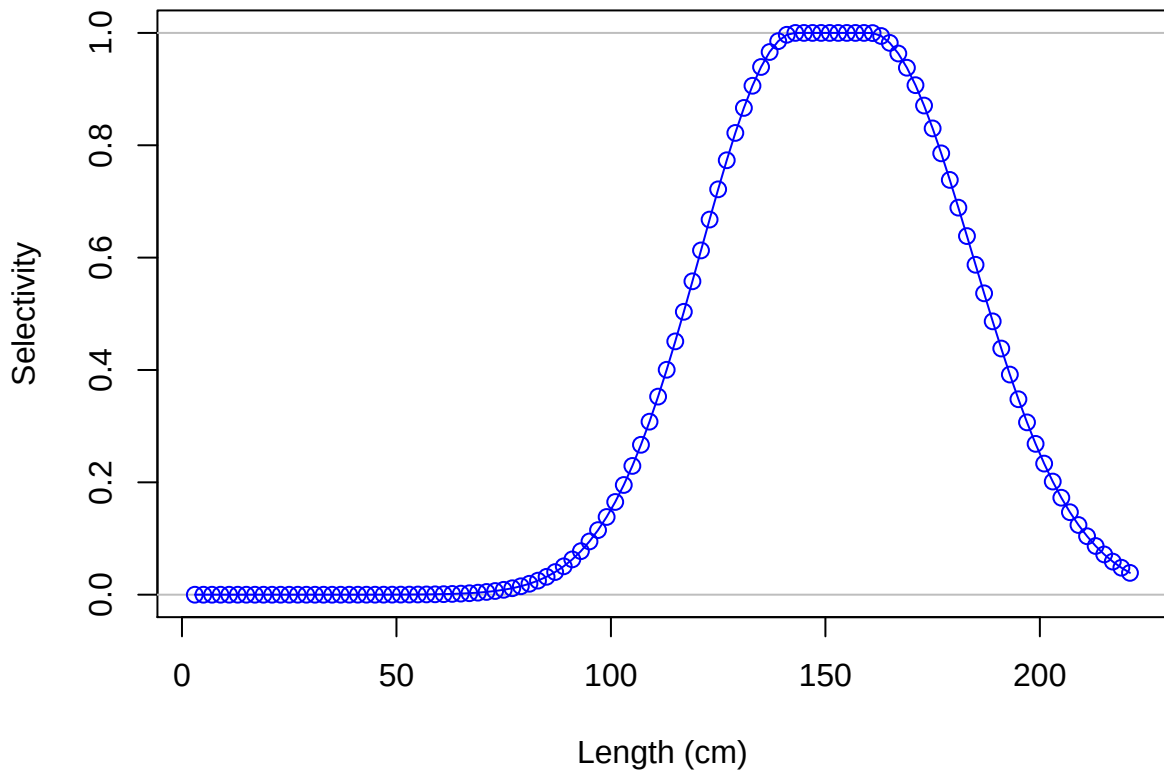
Female time-varying selectivity for A3-LL-n



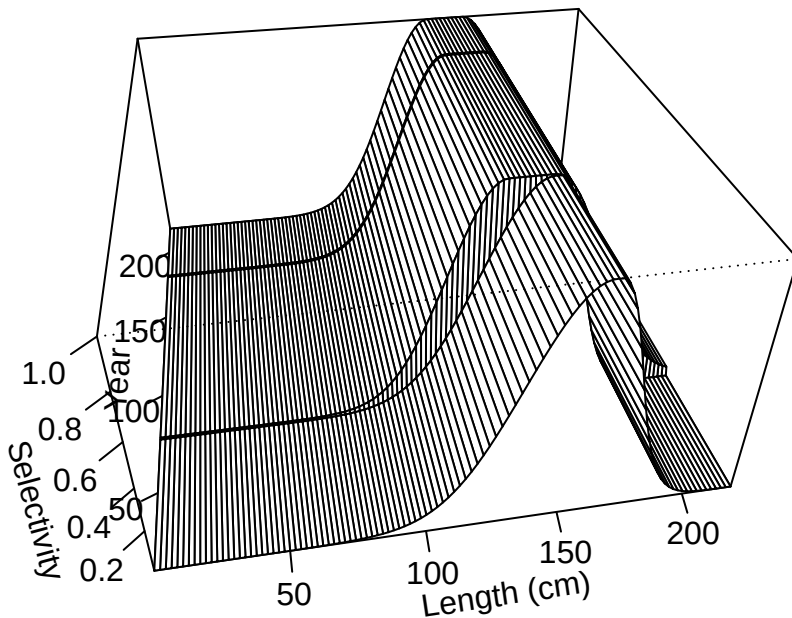
Female time-varying selectivity for A3-LL-n



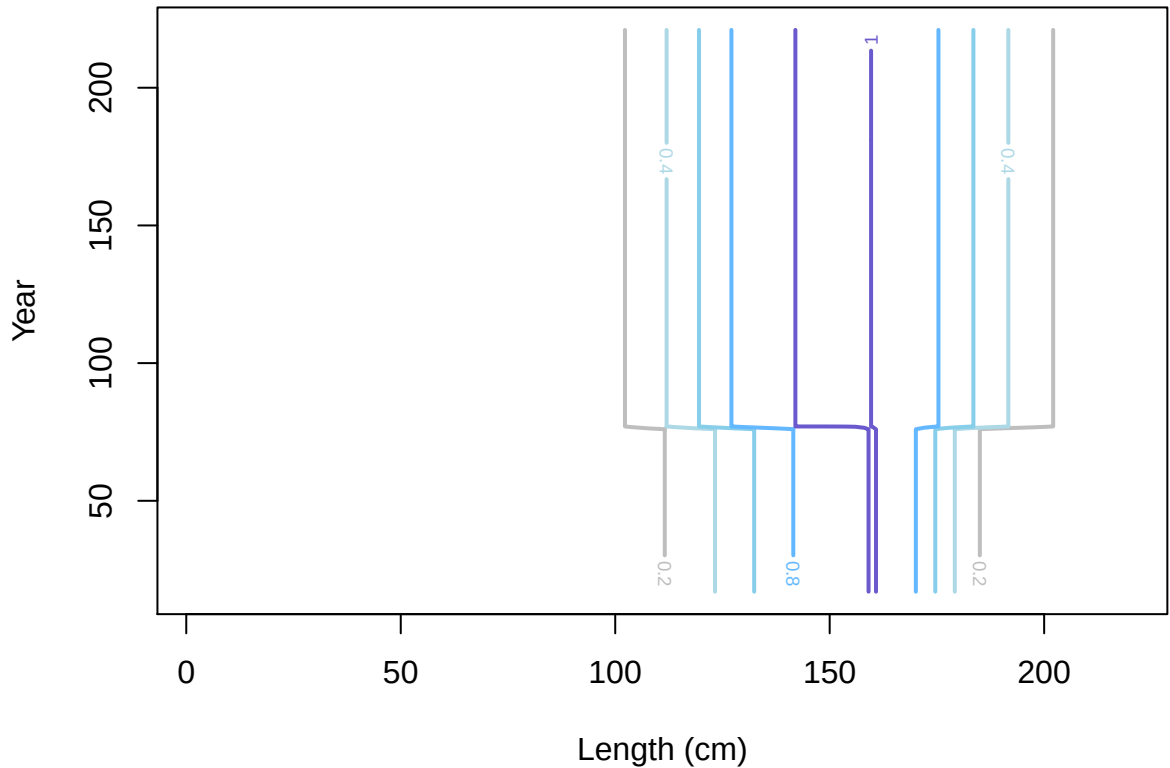
Female ending year selectivity for A3-LL-n



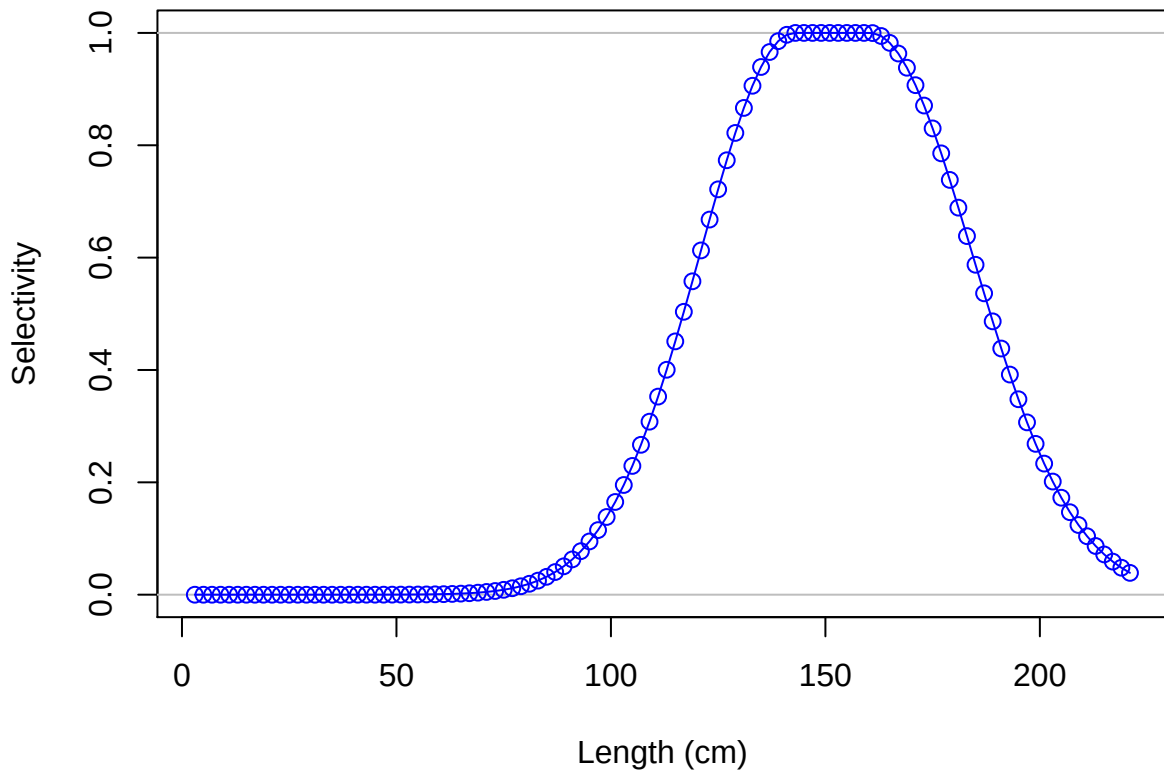
Male time-varying selectivity for A3-LL-n



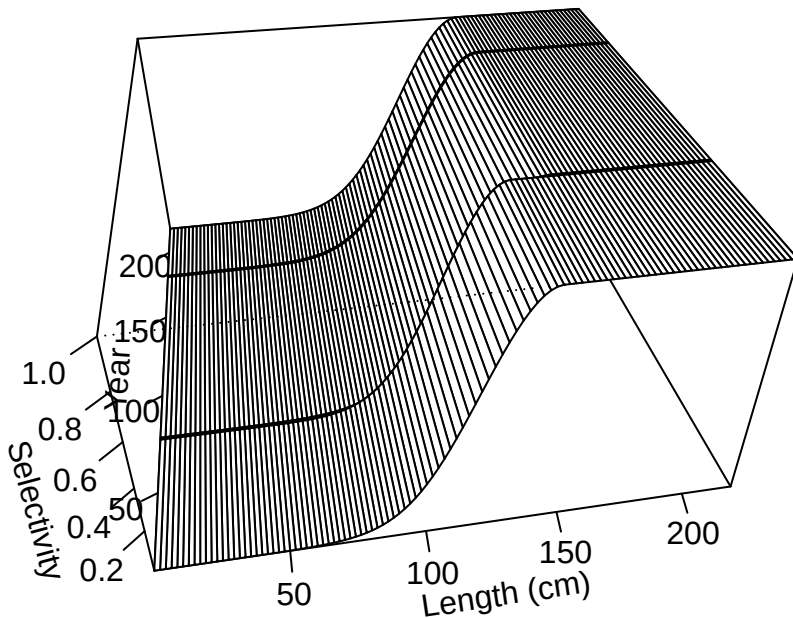
Male time-varying selectivity for A3-LL-n



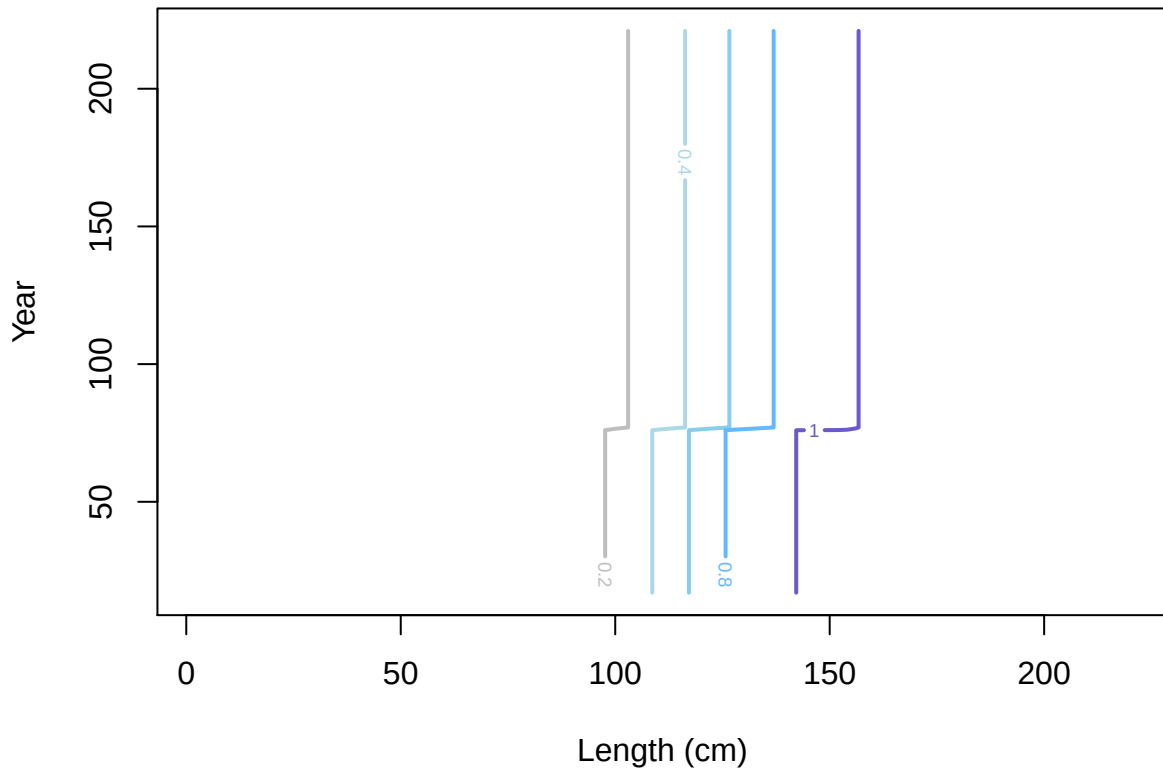
Male ending year selectivity for A3-LL-n



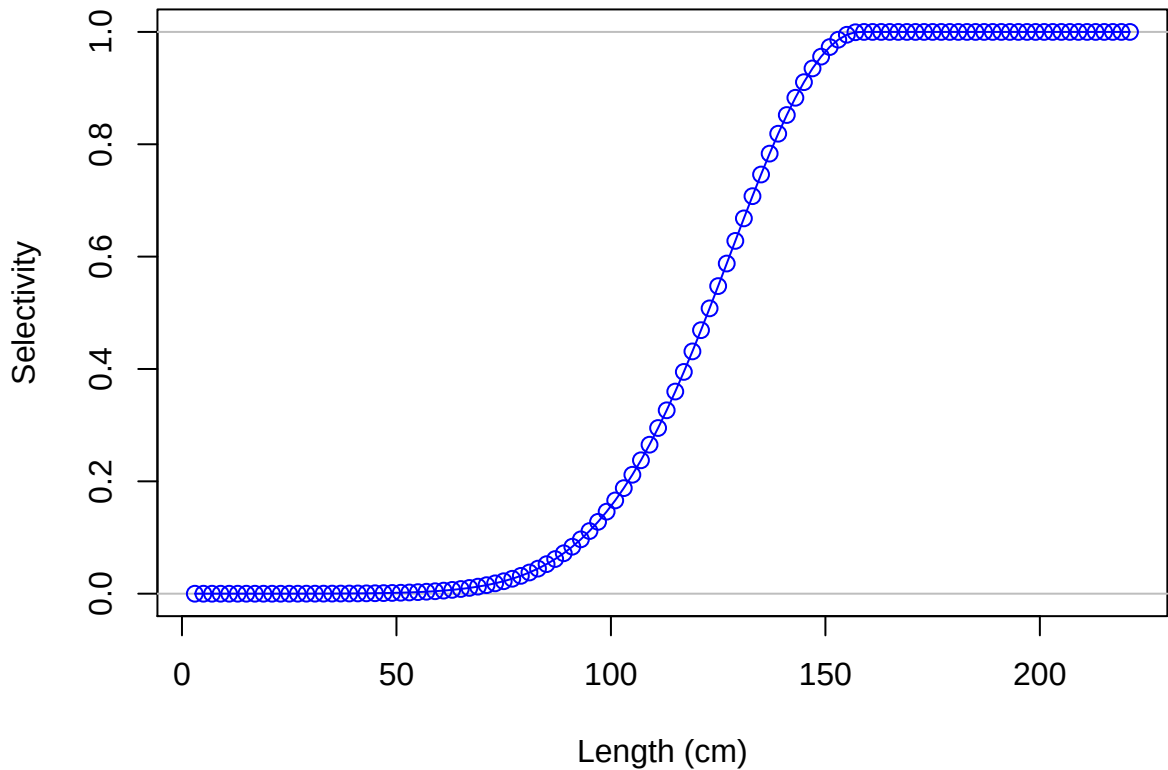
Female time-varying selectivity for A4-LL-n



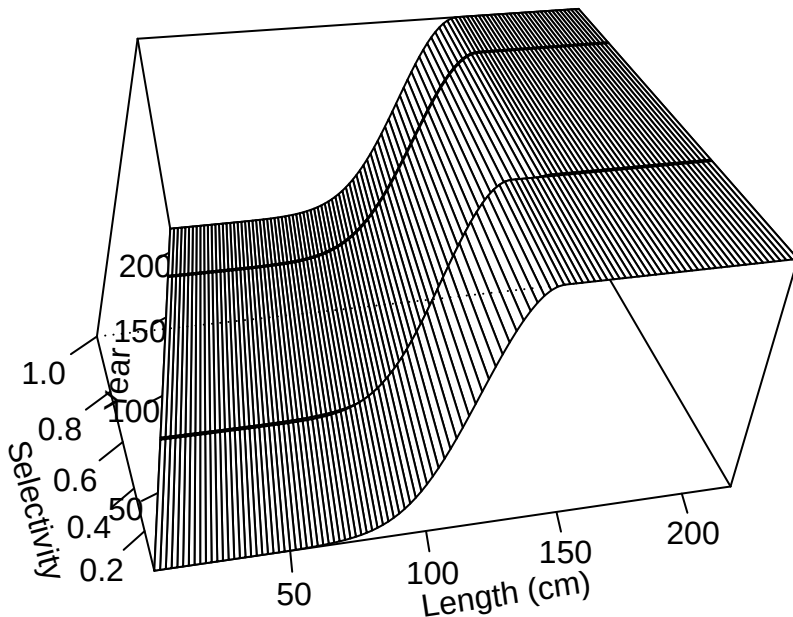
Female time-varying selectivity for A4-LL-n



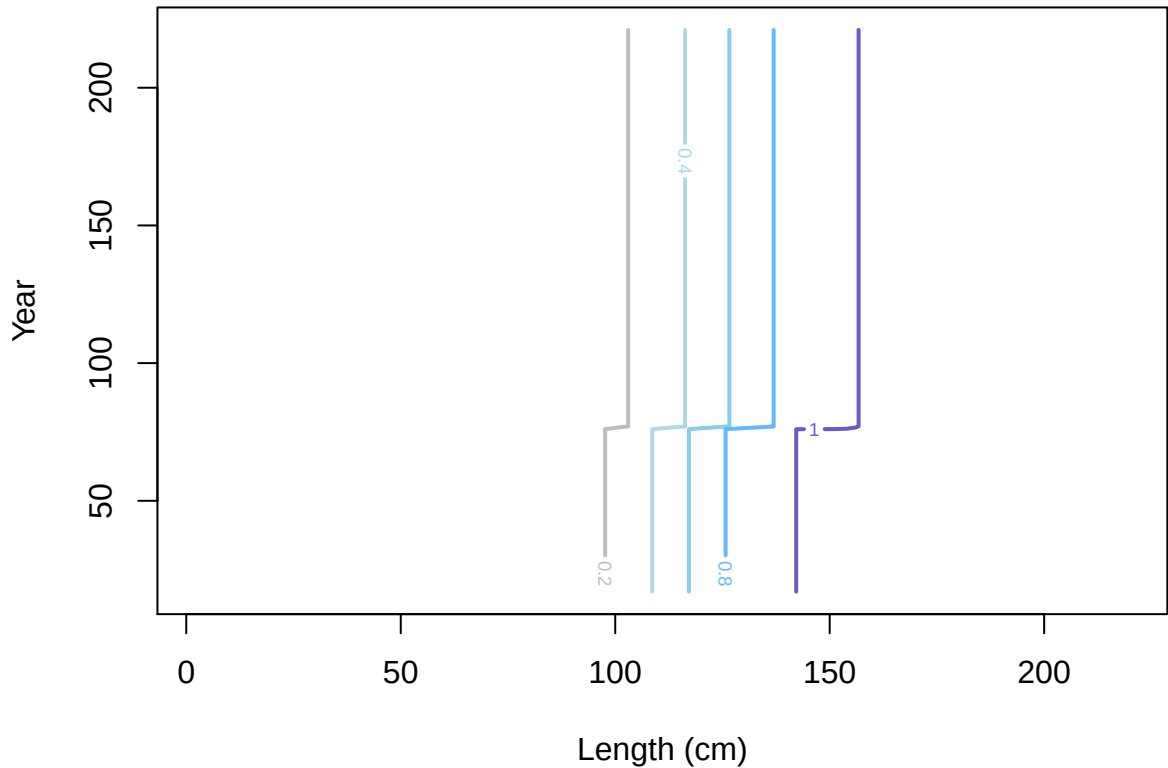
Female ending year selectivity for A4-LL-n



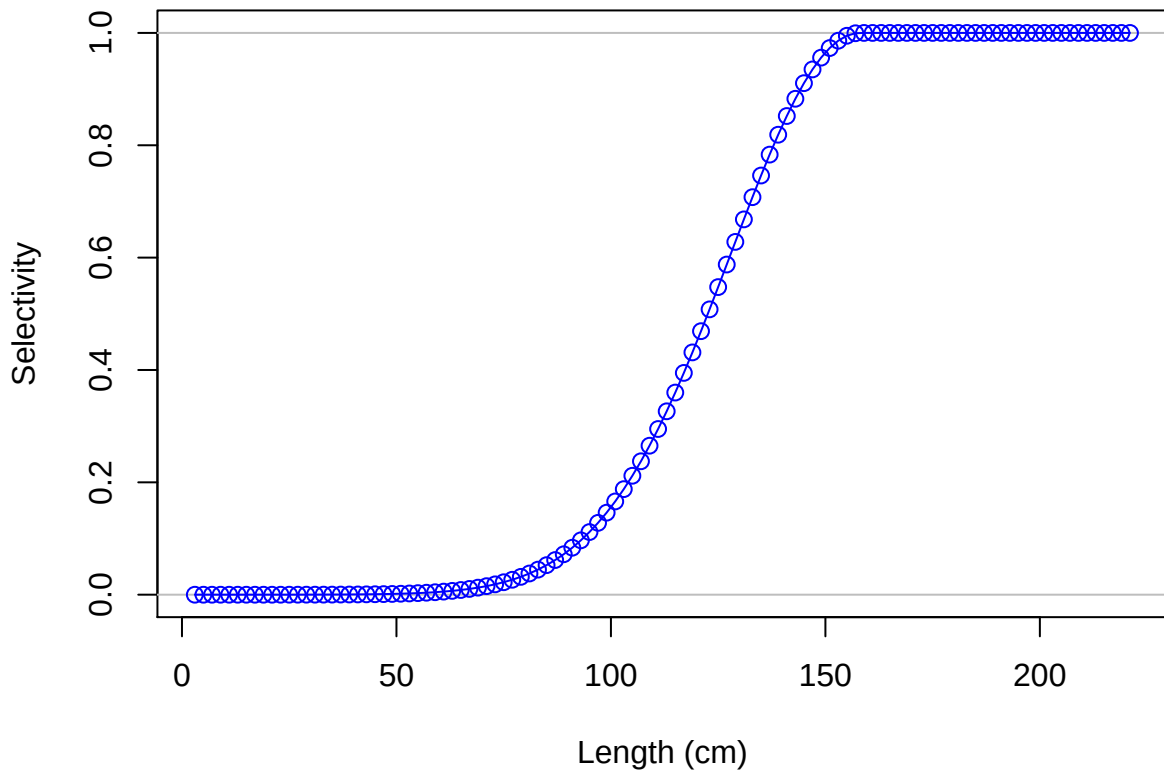
Male time-varying selectivity for A4-LL-n



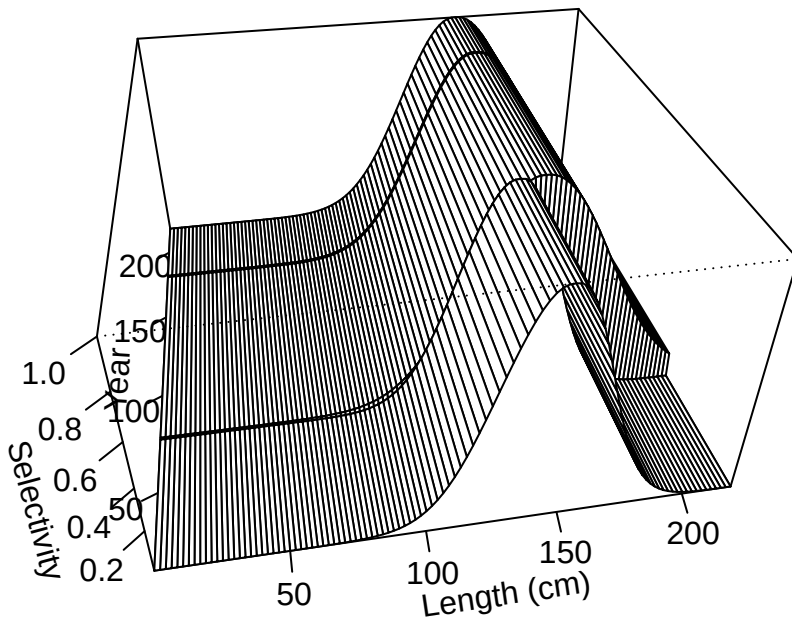
Male time-varying selectivity for A4-LL-n



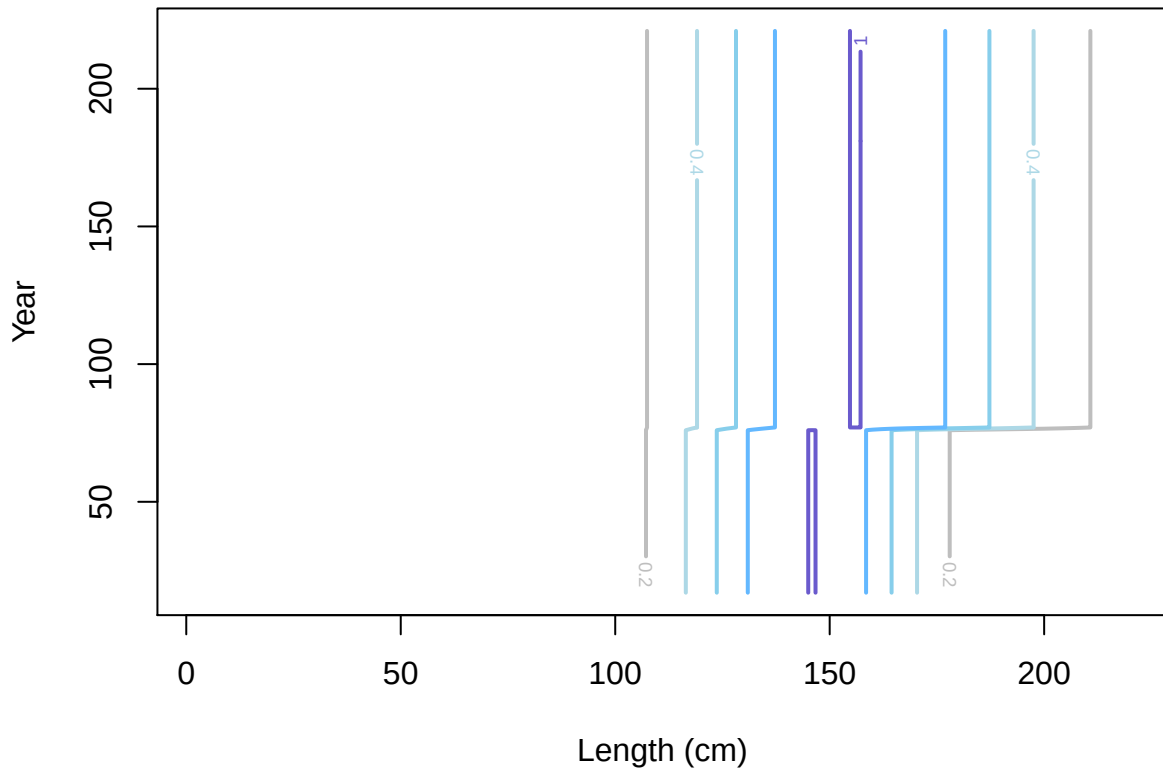
Male ending year selectivity for A4-LL-n



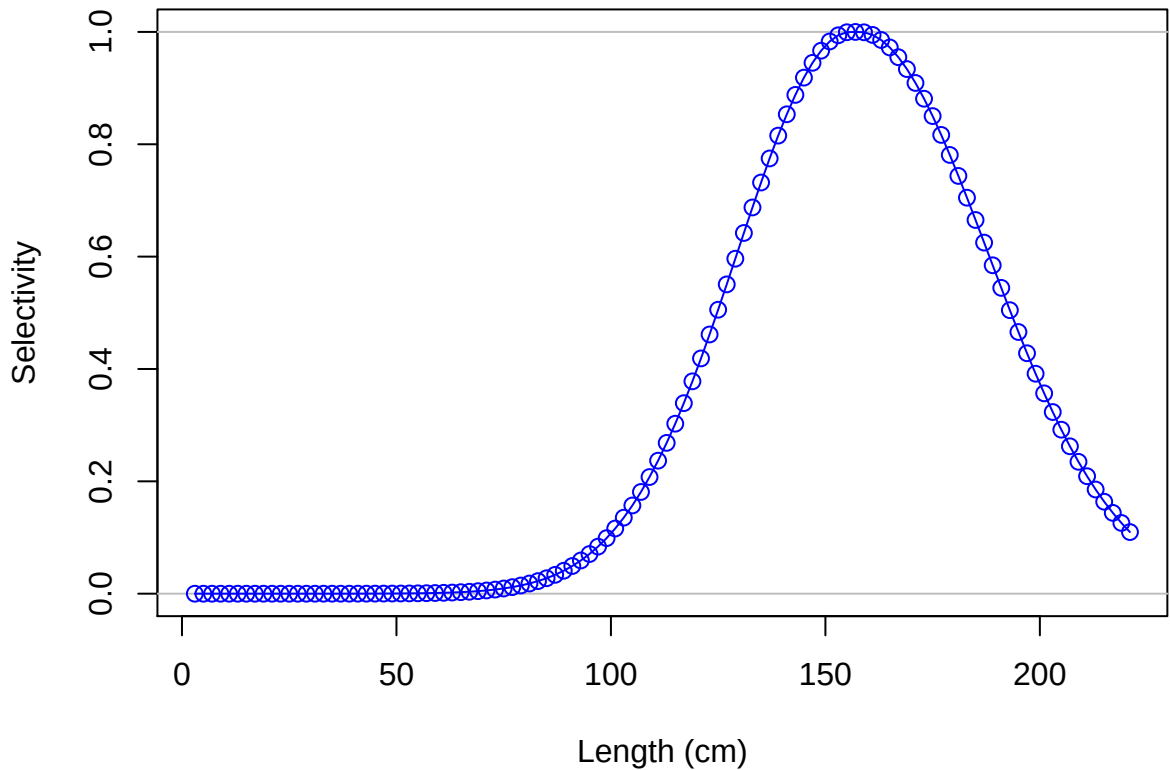
Female time-varying selectivity for A5-LL-n



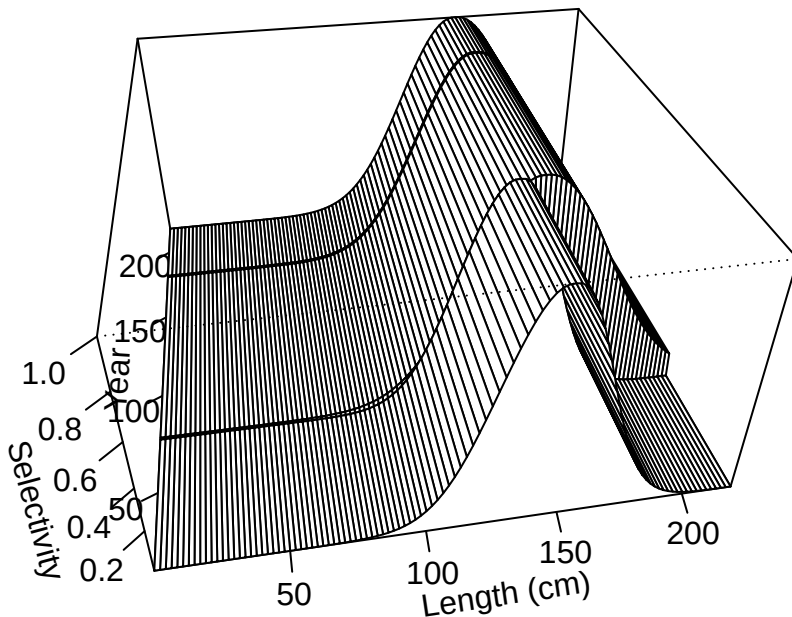
Female time-varying selectivity for A5-LL-n



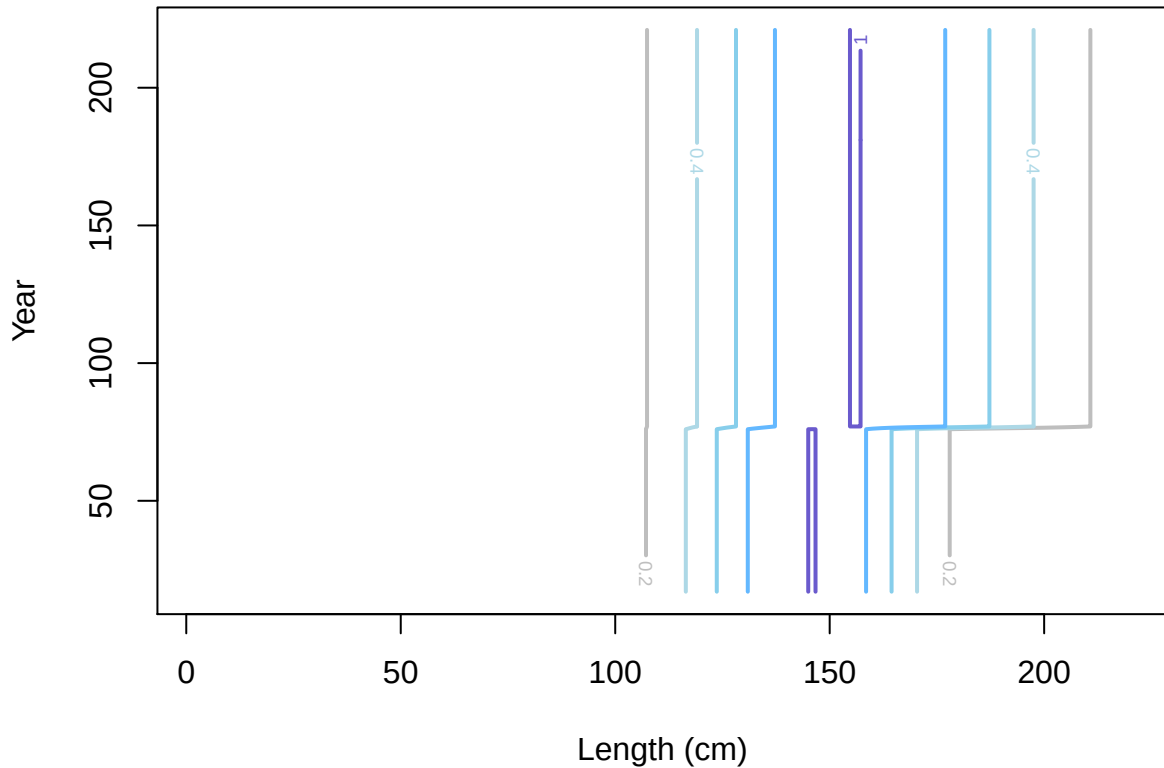
Female ending year selectivity for A5-LL-n



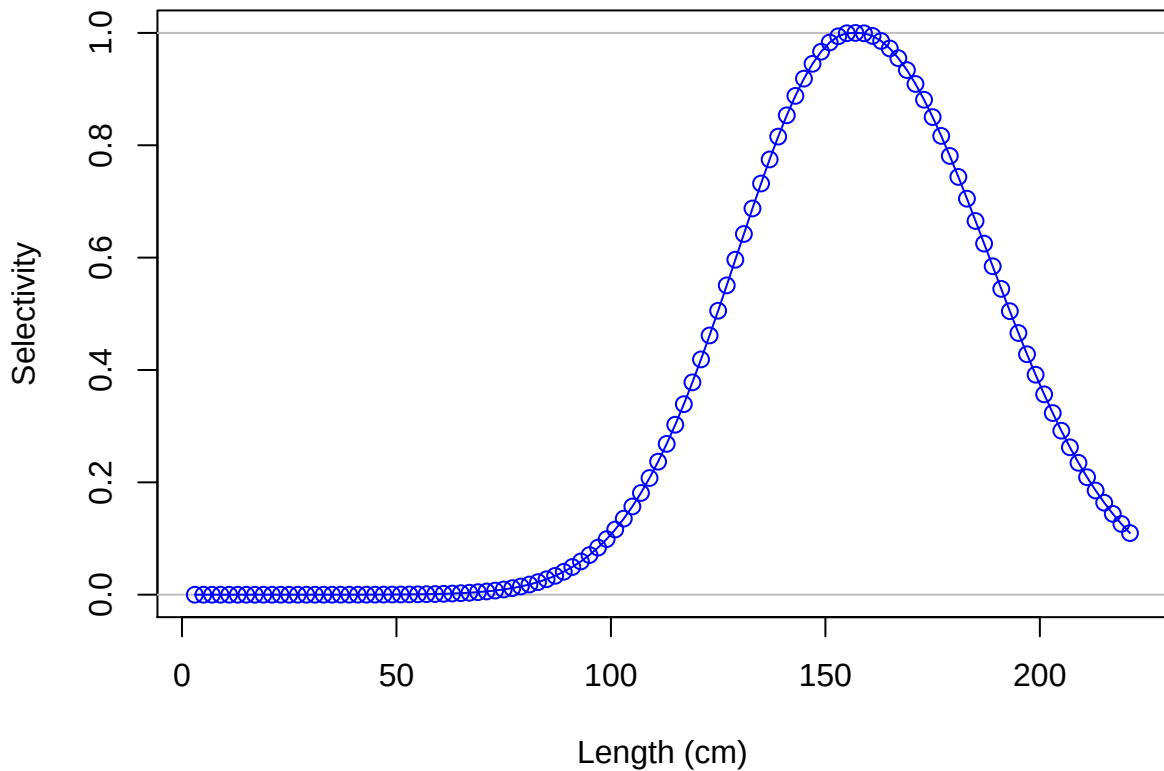
Male time-varying selectivity for A5-LL-n



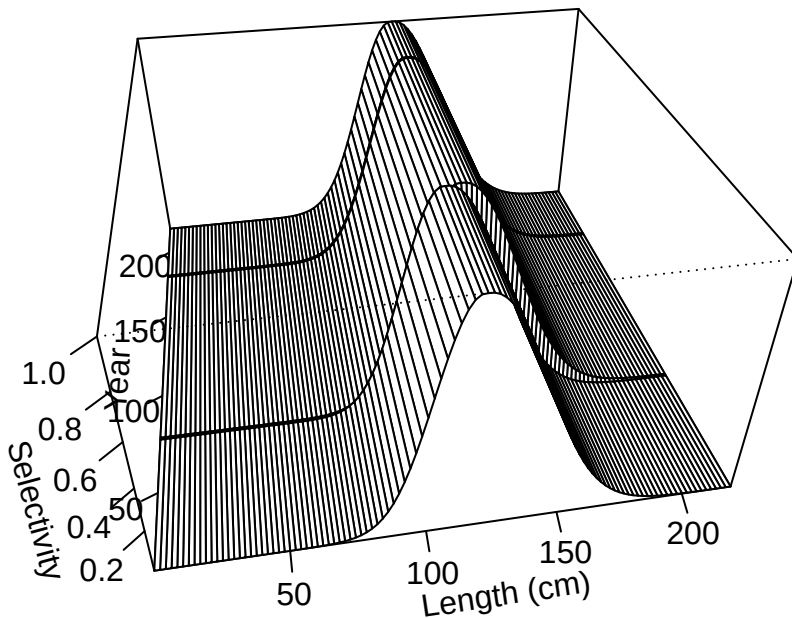
Male time-varying selectivity for A5-LL-n



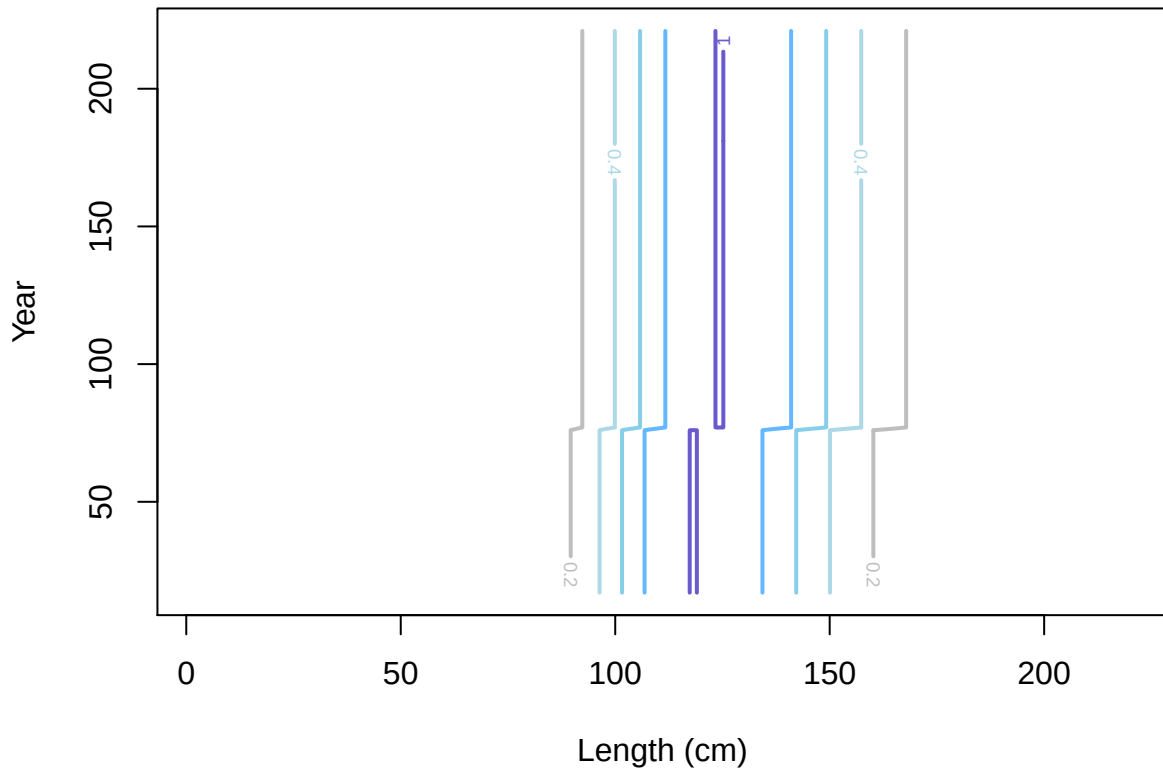
Male ending year selectivity for A5-LL-n



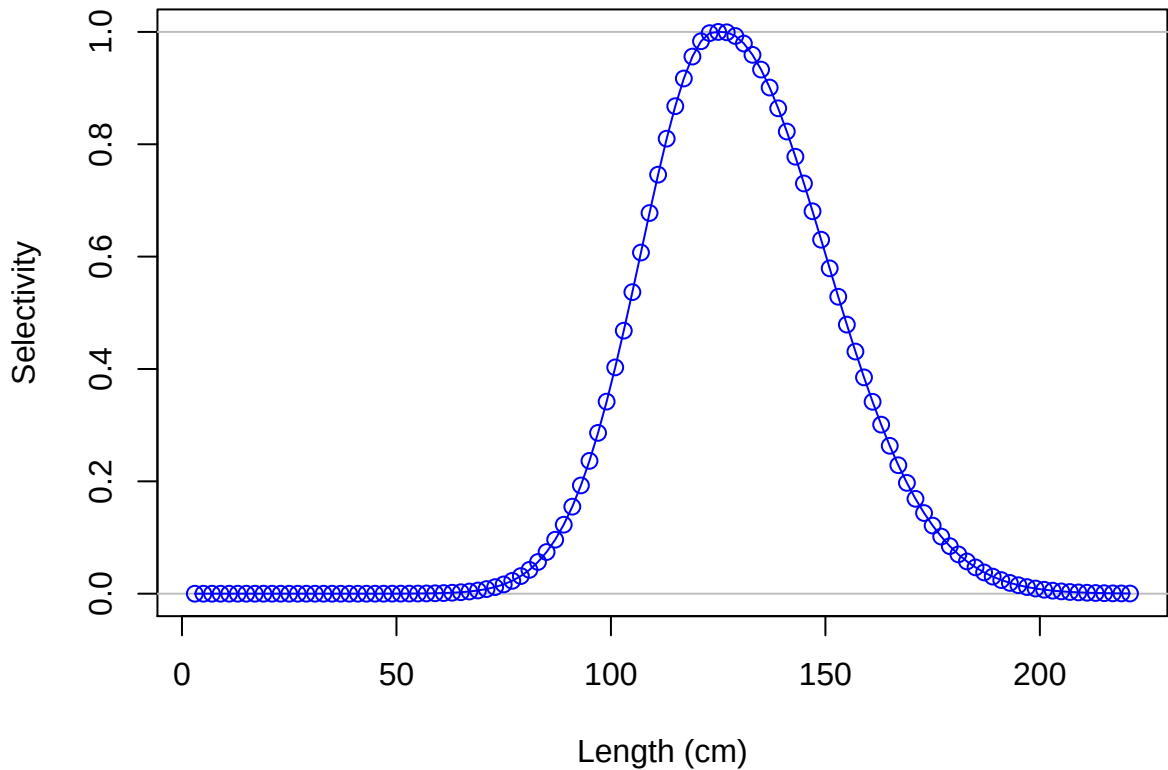
Female time-varying selectivity for A6-LL-n



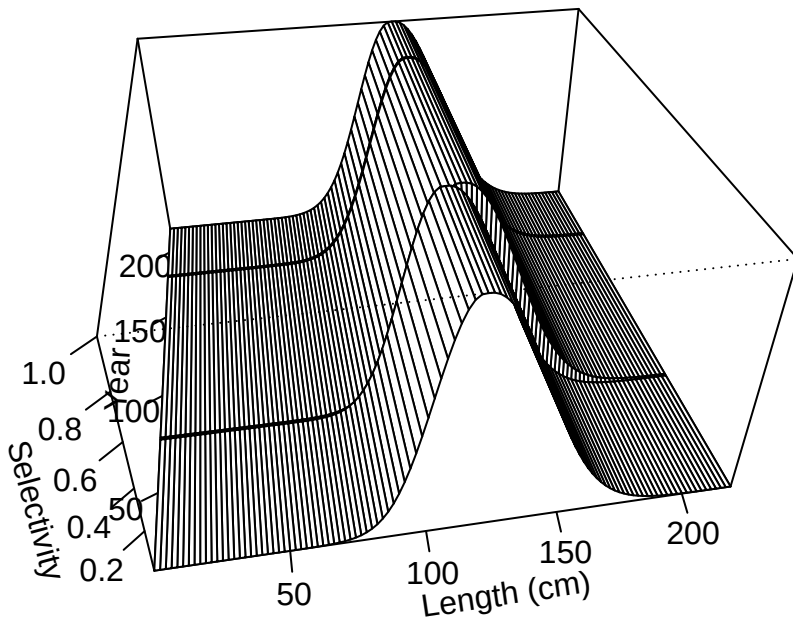
Female time-varying selectivity for A6-LL-n



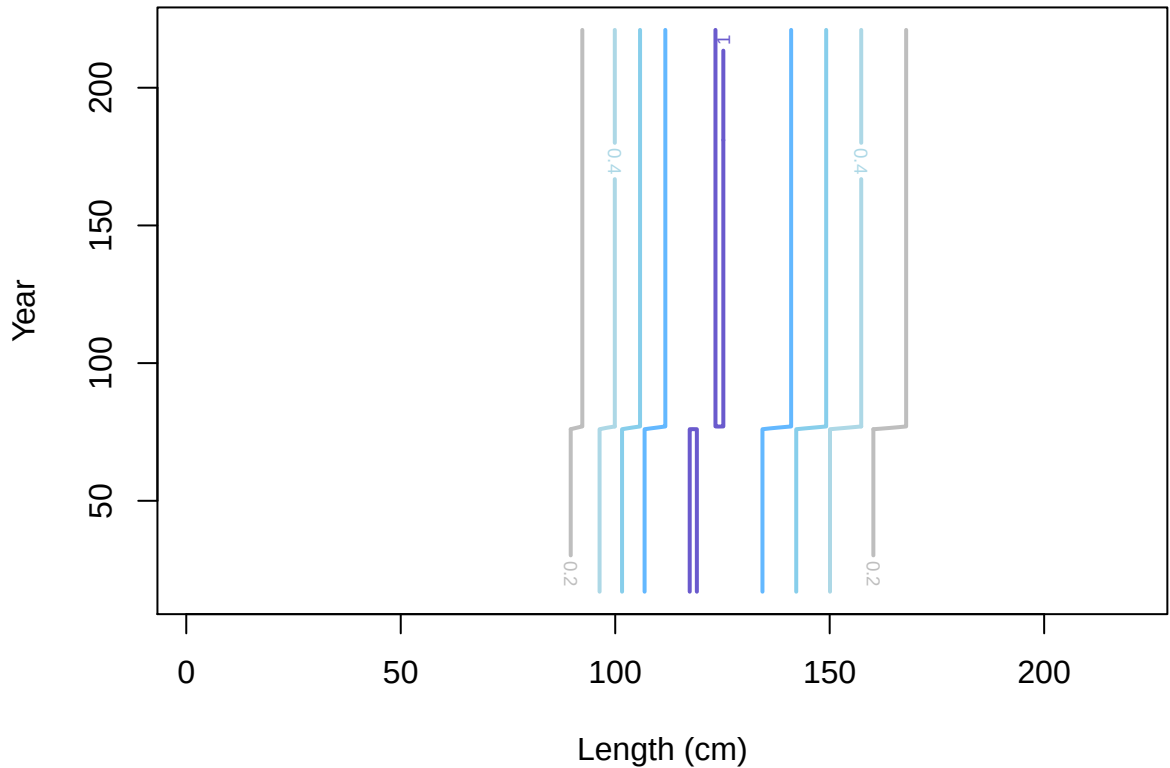
Female ending year selectivity for A6-LL-n



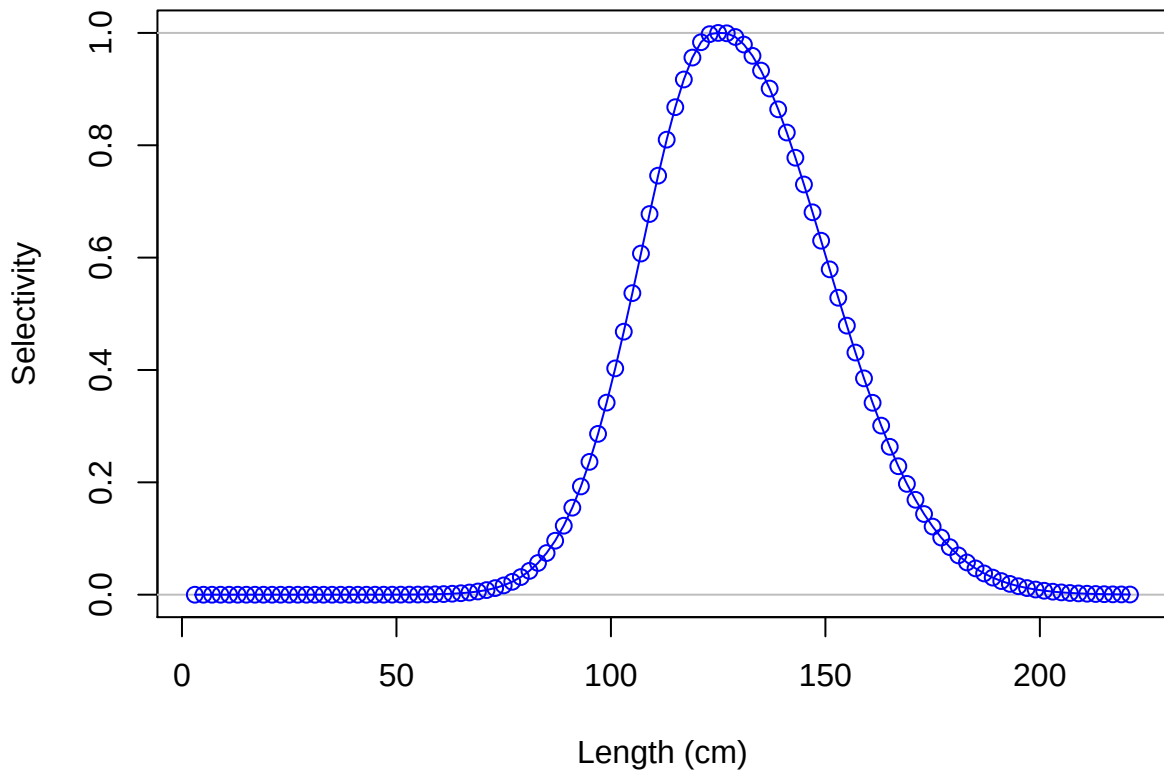
Male time-varying selectivity for A6-LL-n



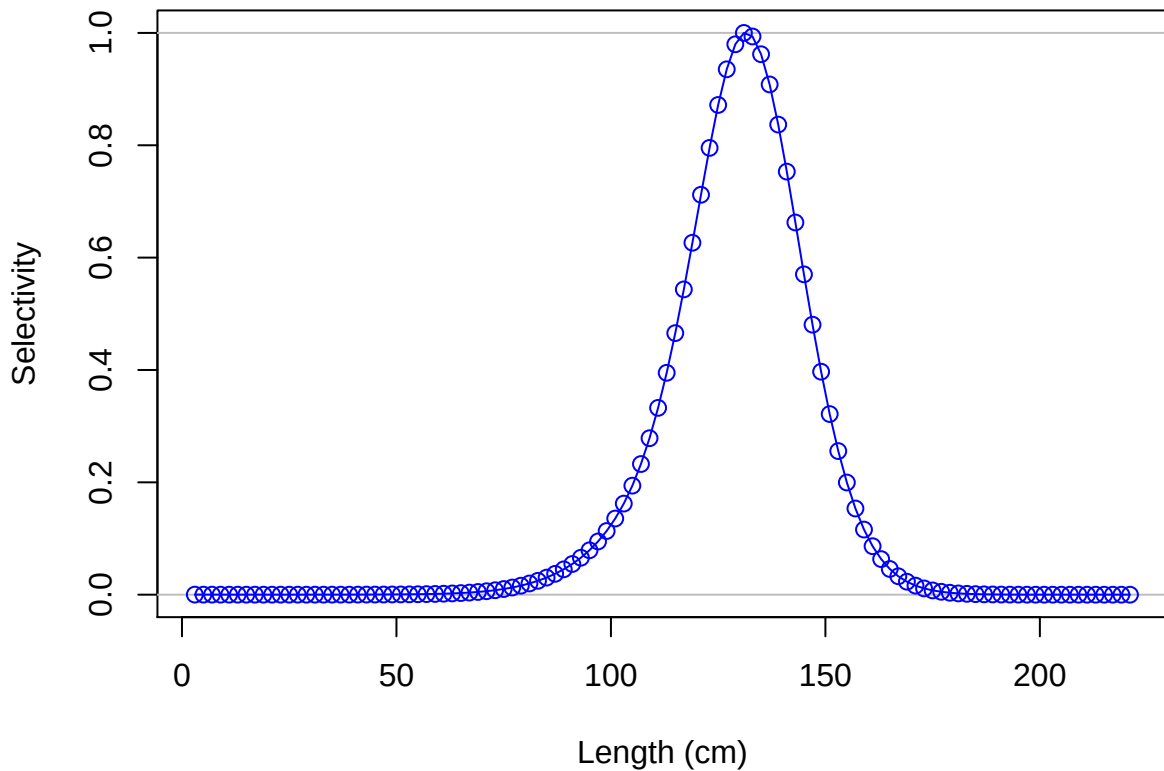
Male time-varying selectivity for A6-LL-n



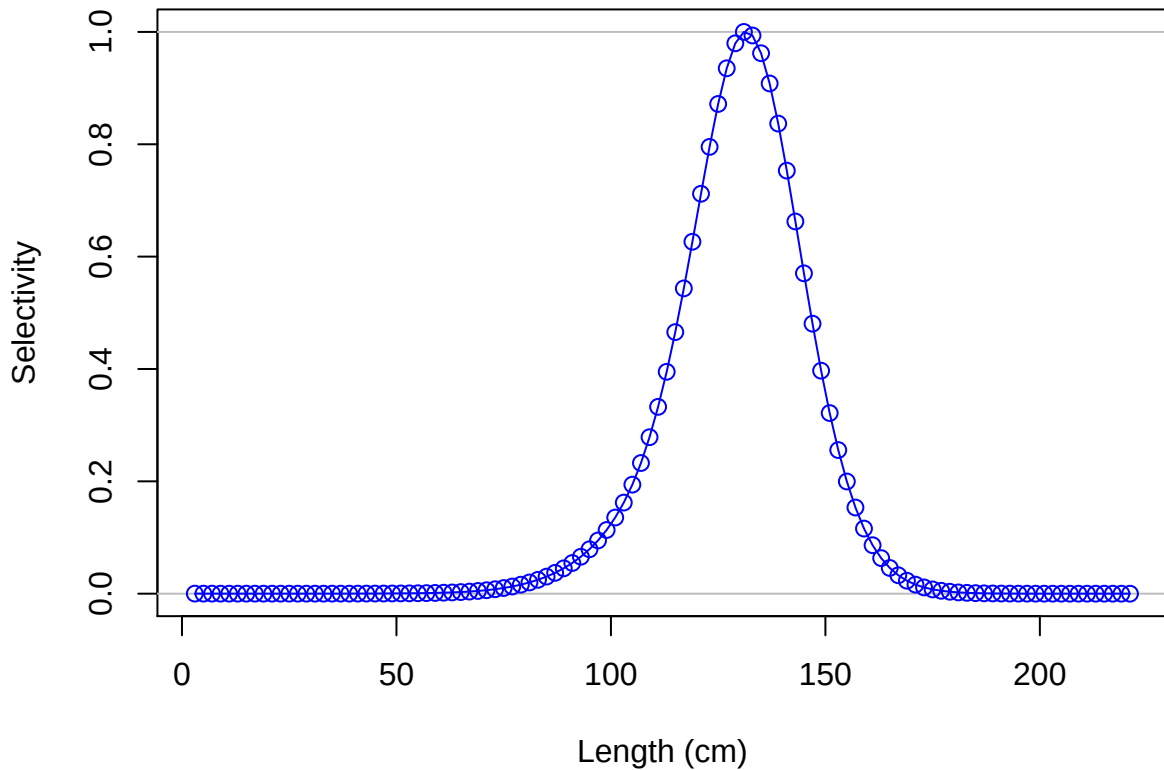
Male ending year selectivity for A6-LL-n



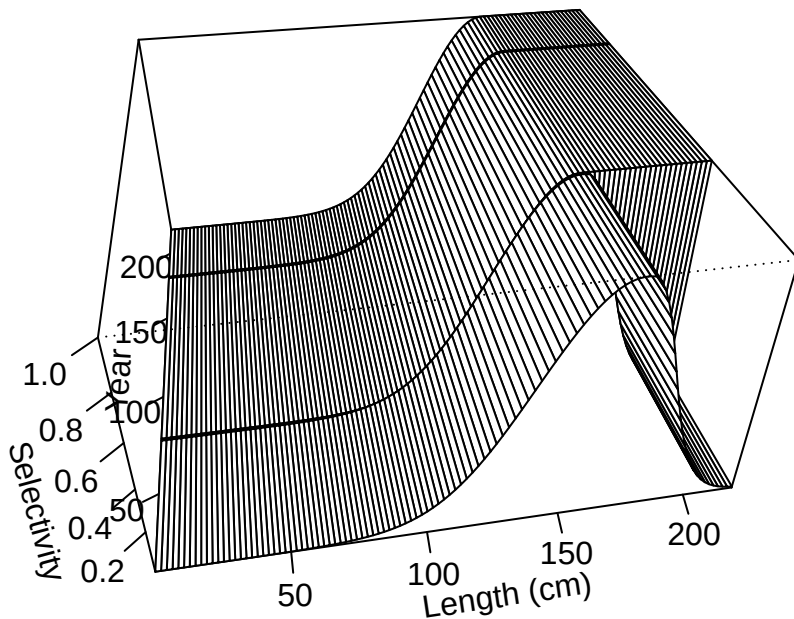
Female ending year selectivity for A1-LL-w



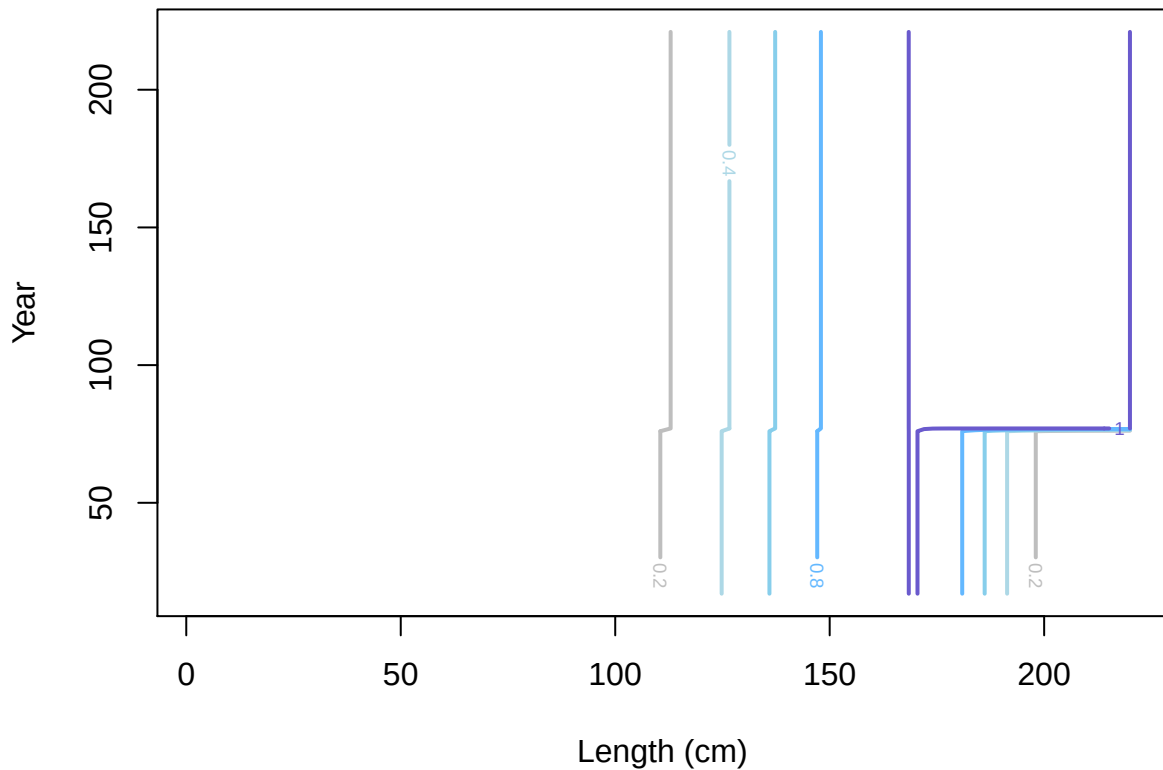
Male ending year selectivity for A1-LL-w



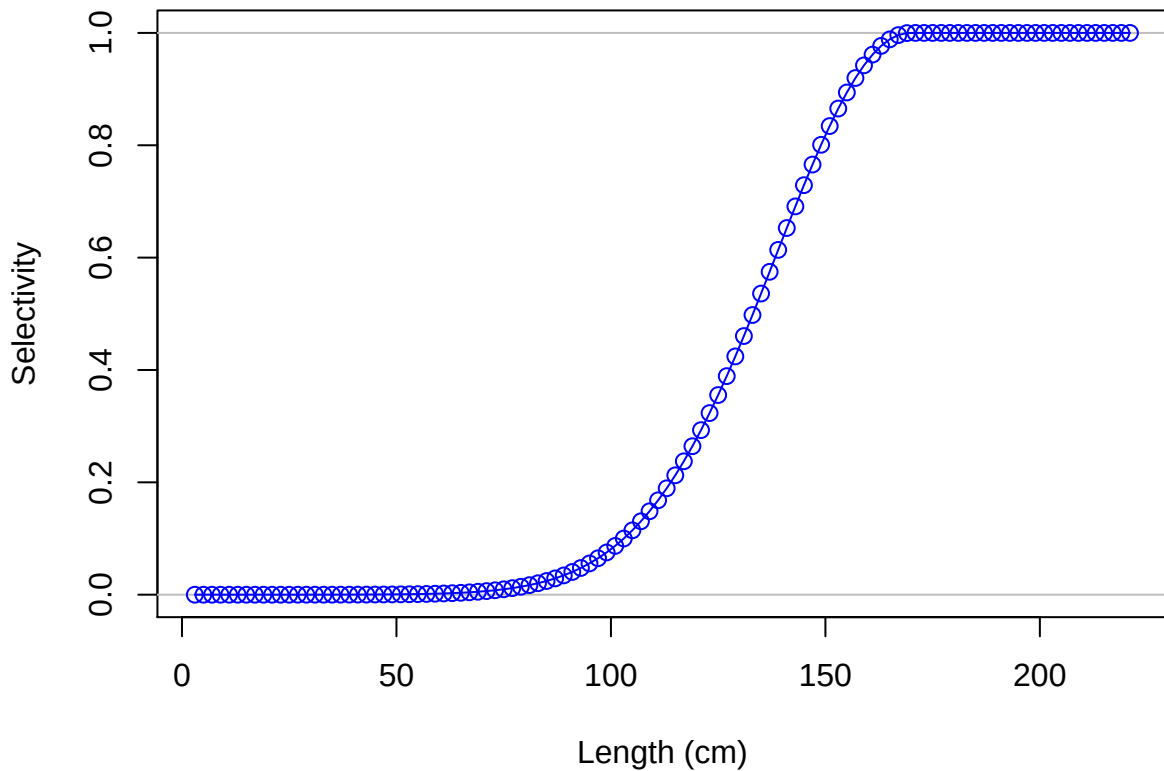
Female time-varying selectivity for A2-LL-w



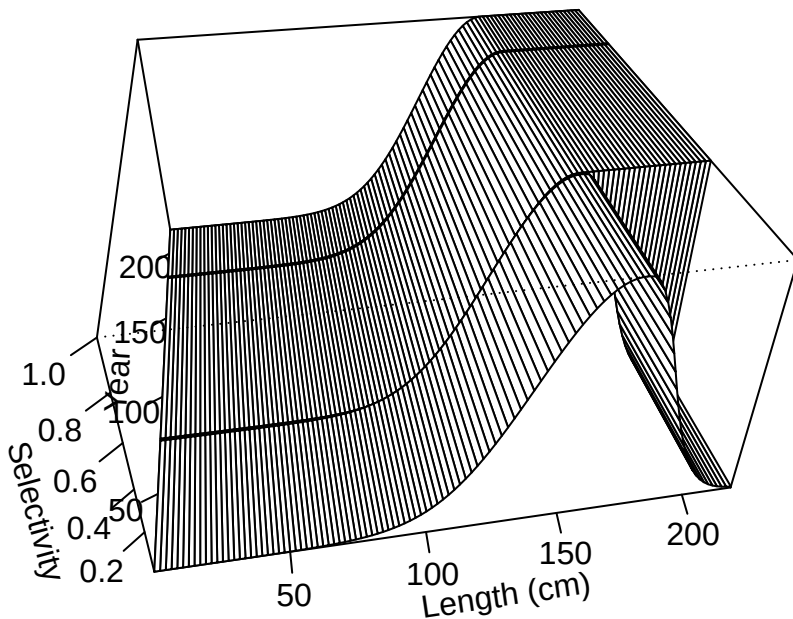
Female time-varying selectivity for A2-LL-w



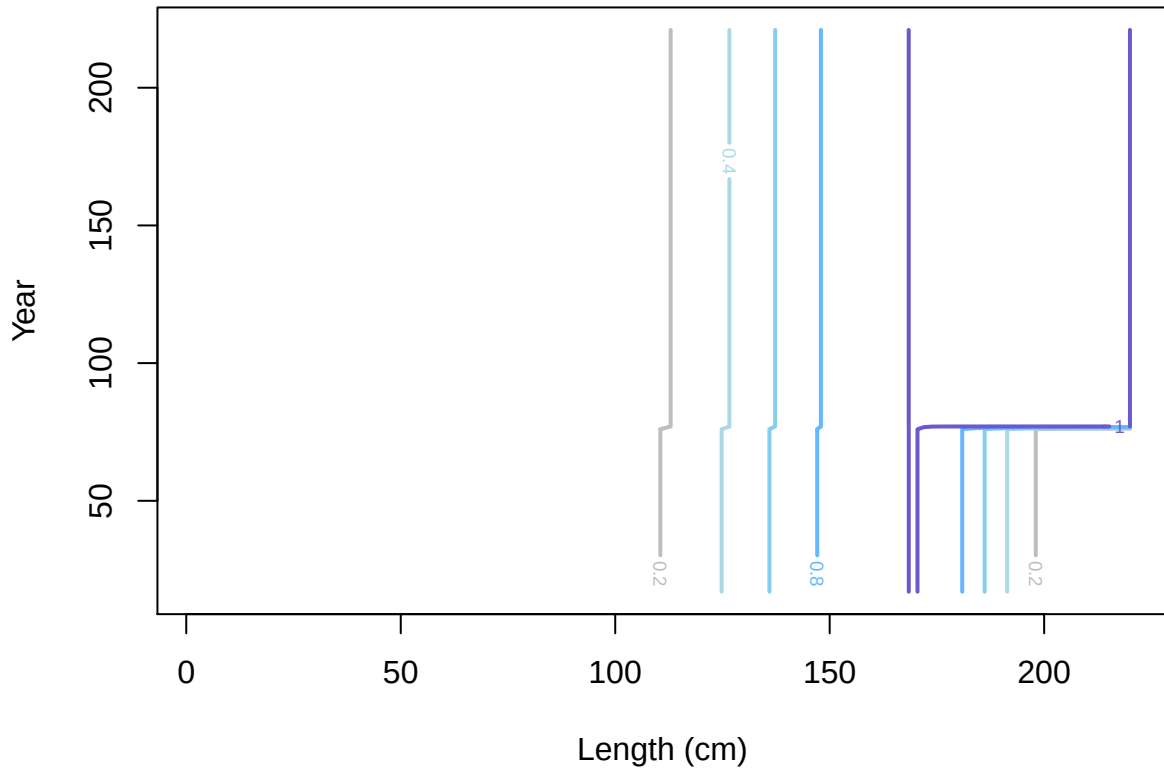
Female ending year selectivity for A2-LL-w



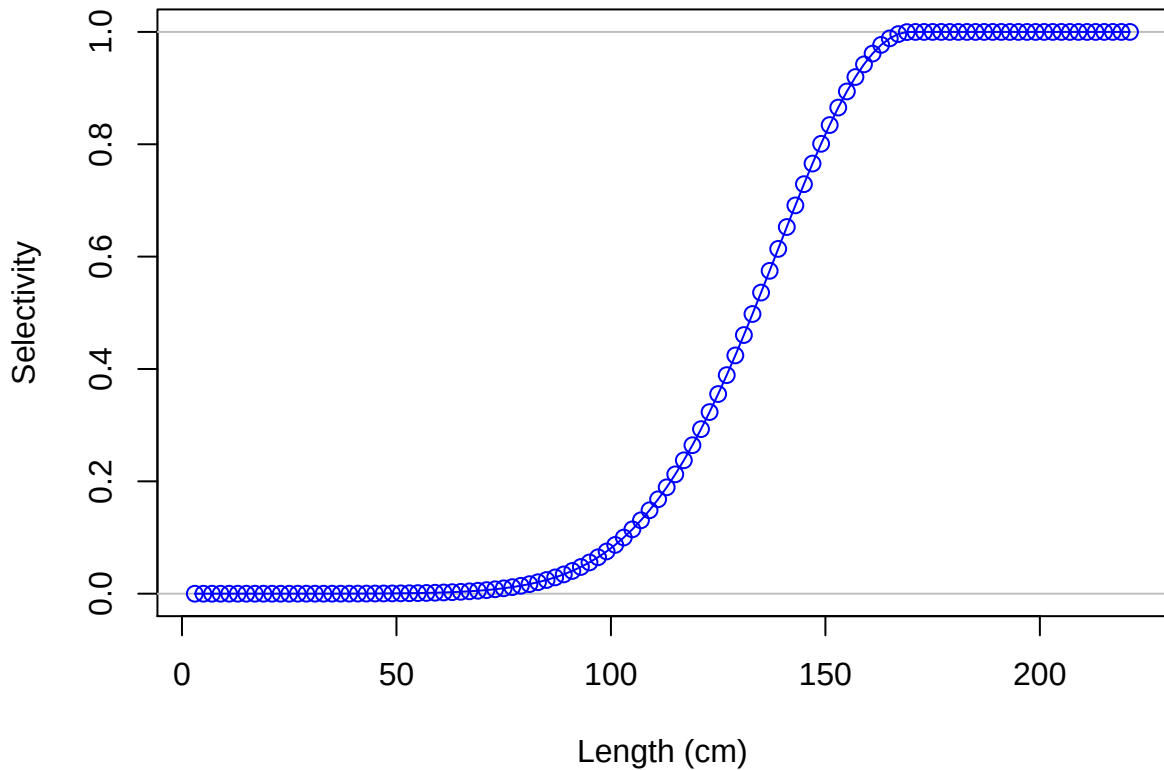
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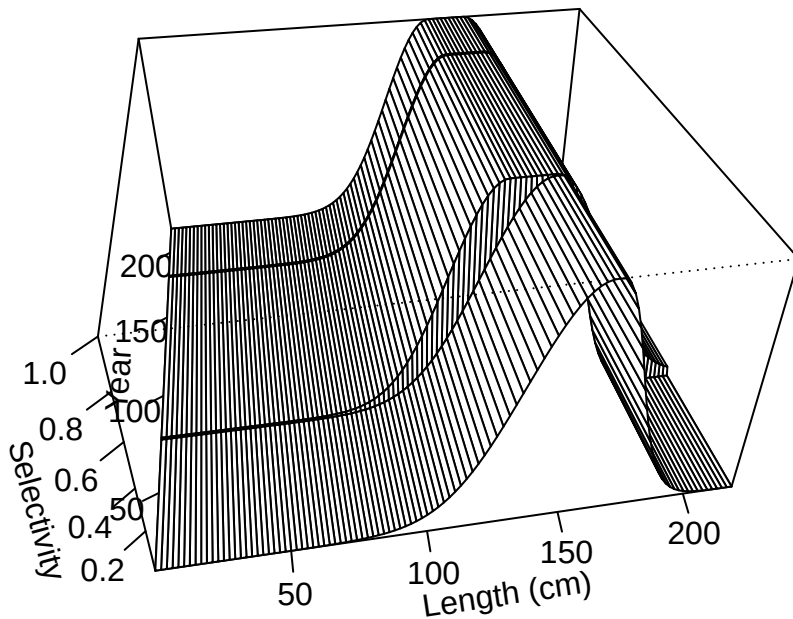
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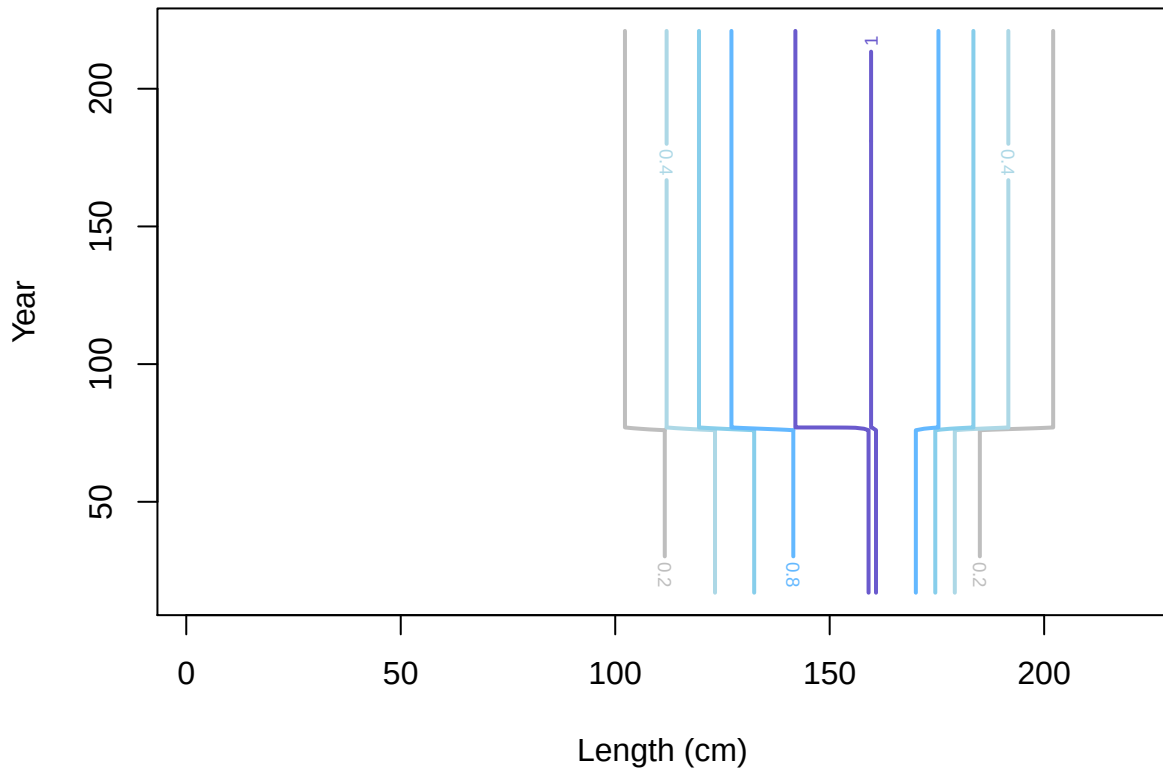
Male ending year selectivity for A2-LL-w



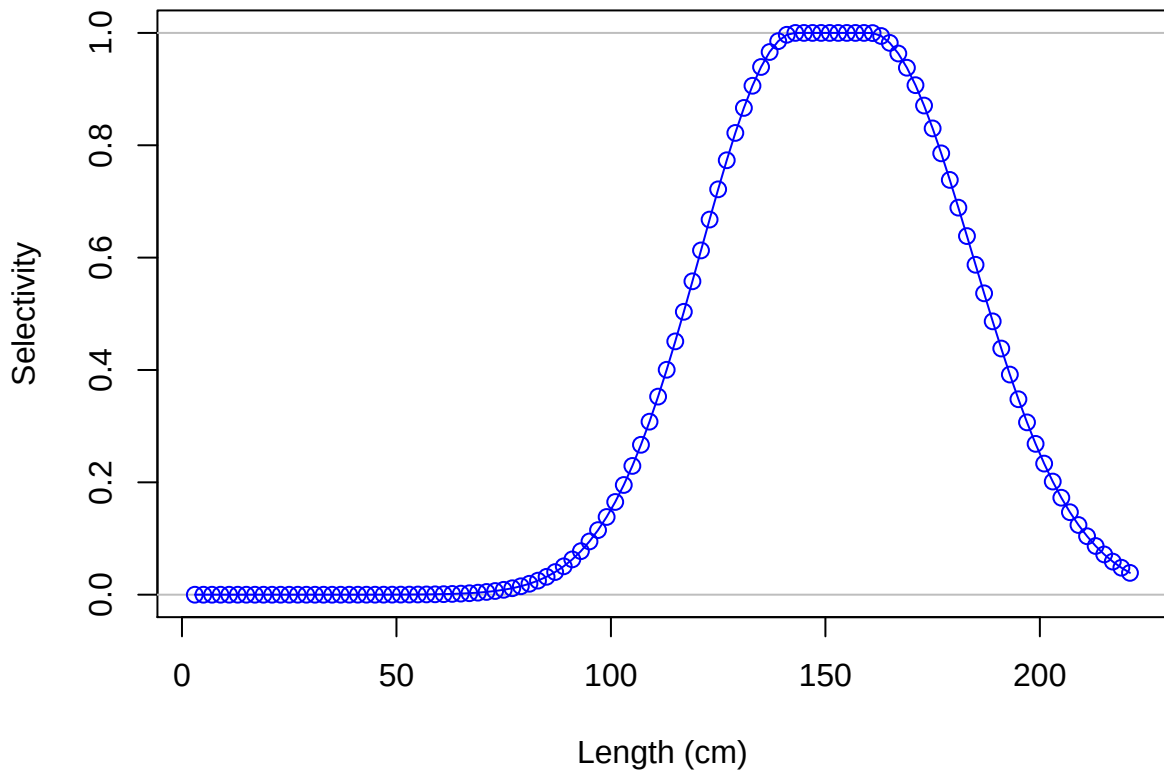
Female time-varying selectivity for A3-LL-w



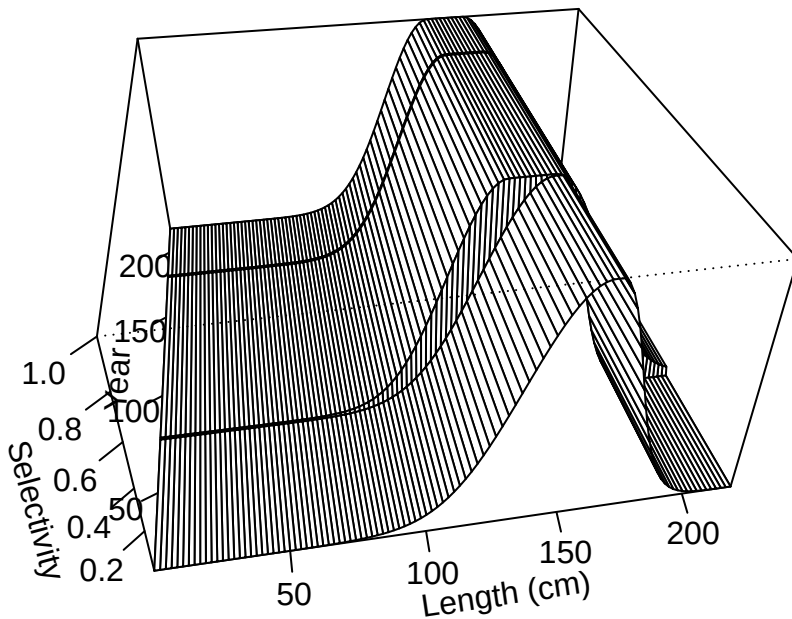
Female time-varying selectivity for A3-LL-w



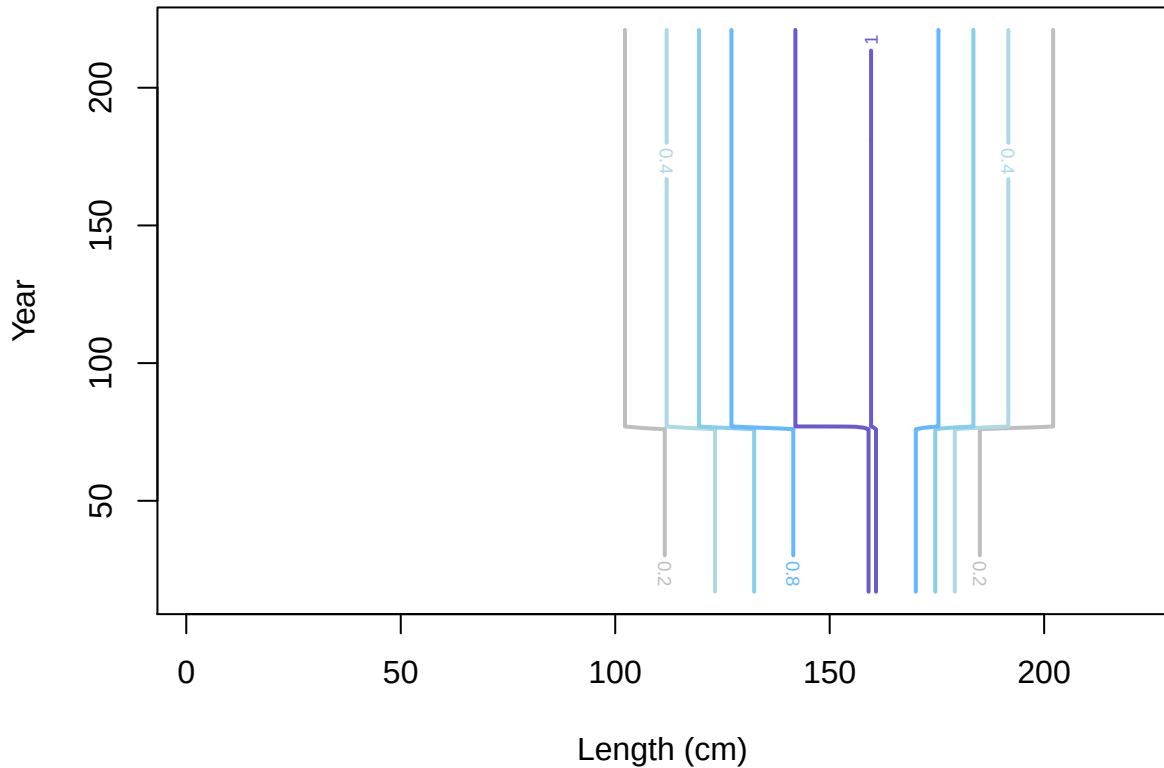
Female ending year selectivity for A3-LL-w



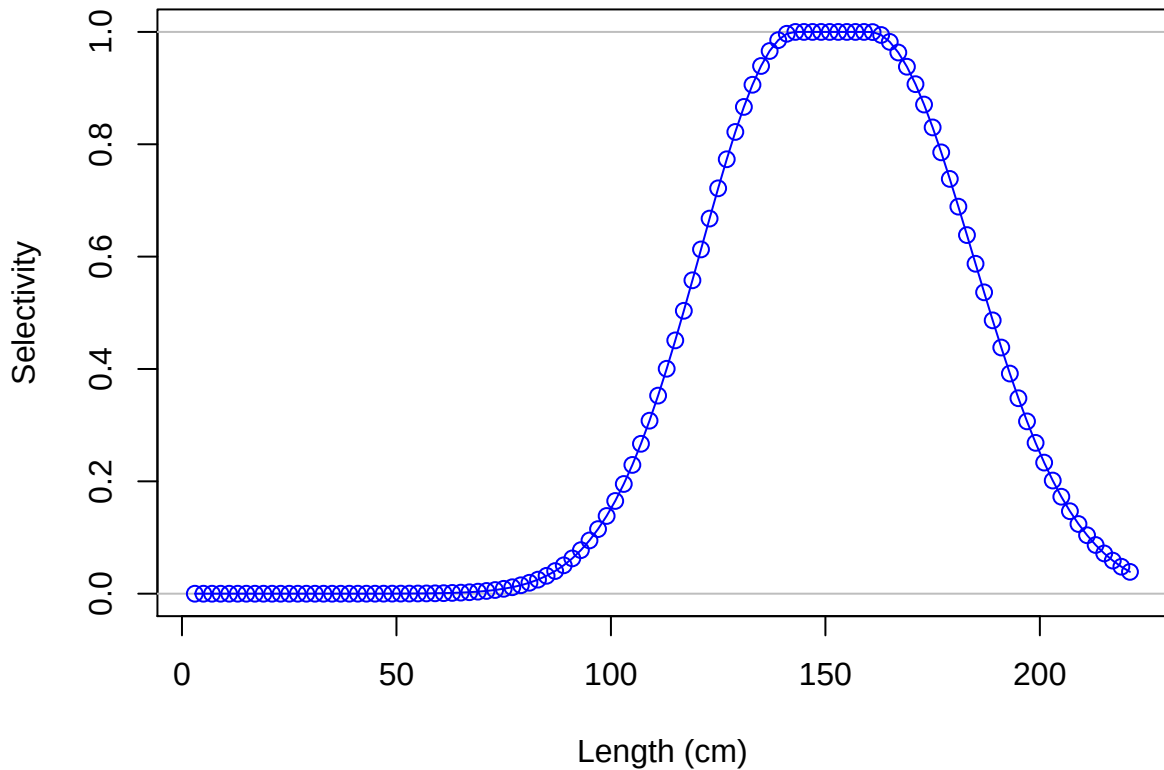
Male time-varying selectivity for A3-LL-w



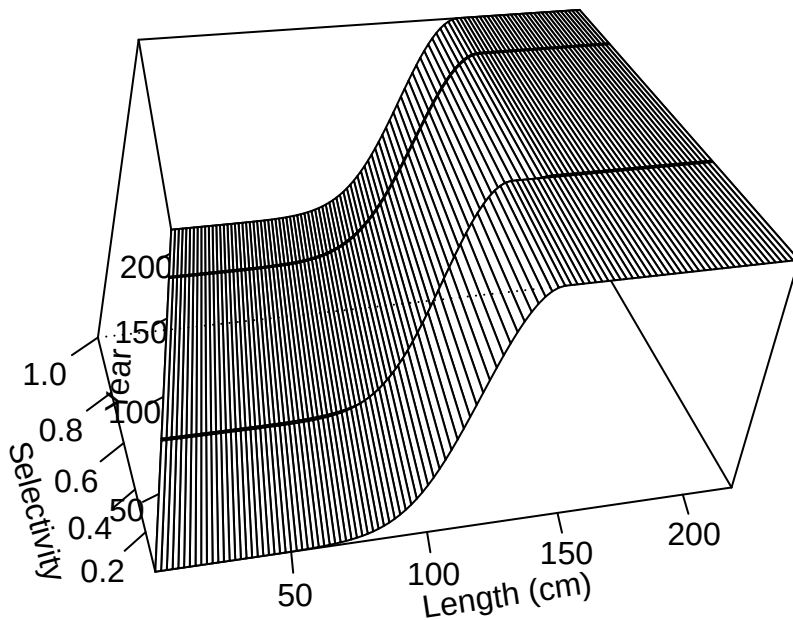
Male time-varying selectivity for A3-LL-w



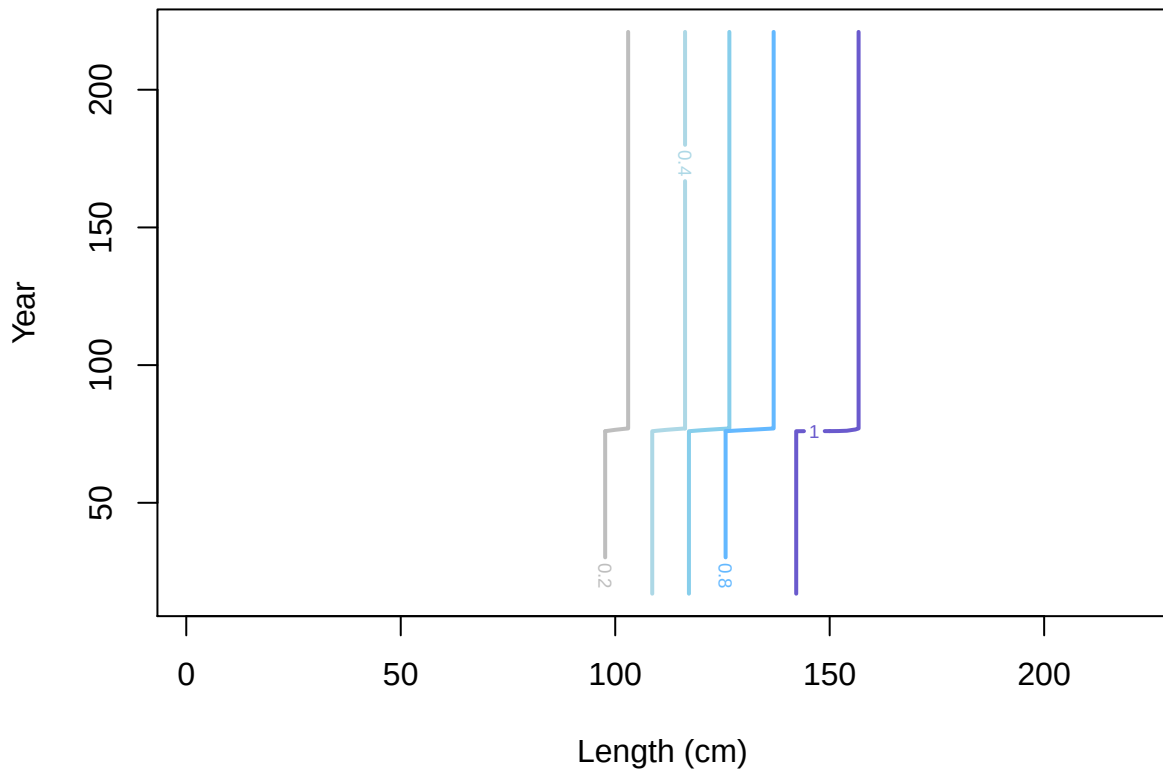
Male ending year selectivity for A3-LL-w



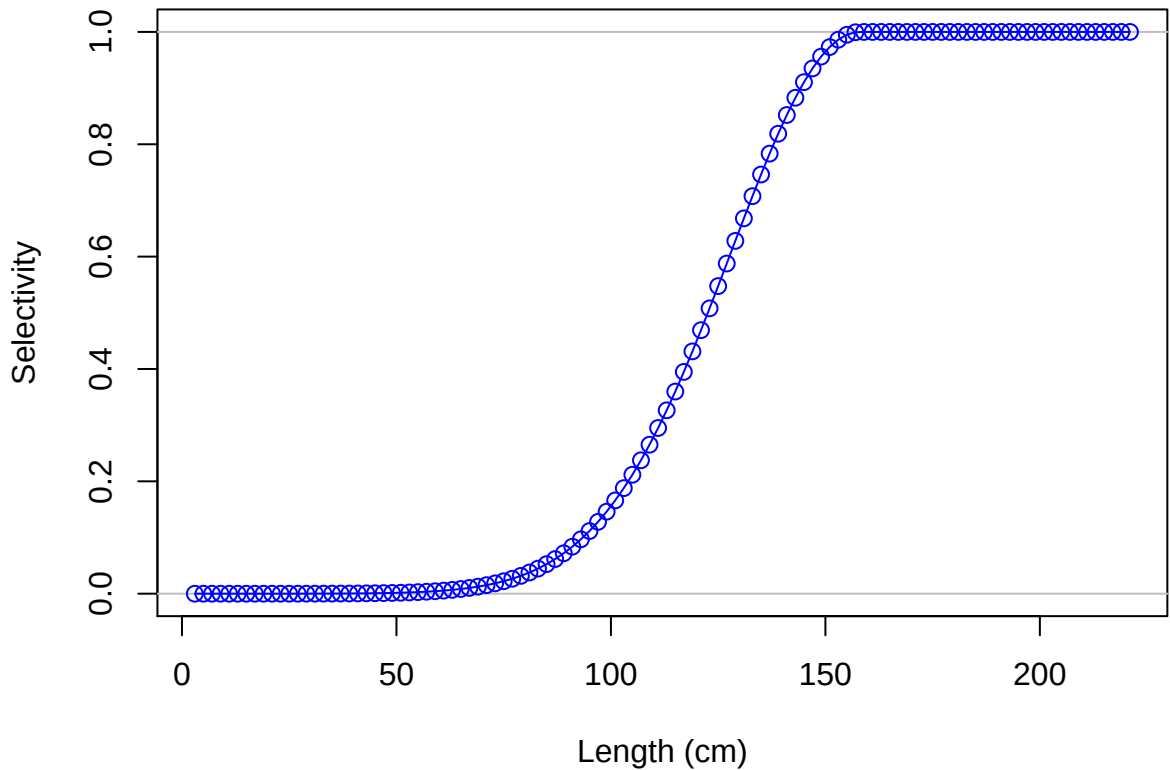
Female time-varying selectivity for A4-LL-w



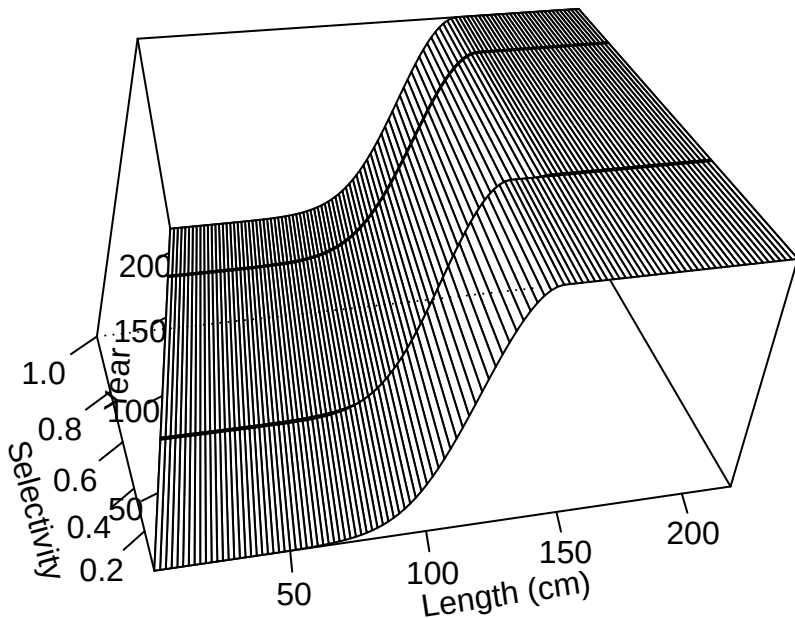
Female time-varying selectivity for A4-LL-w



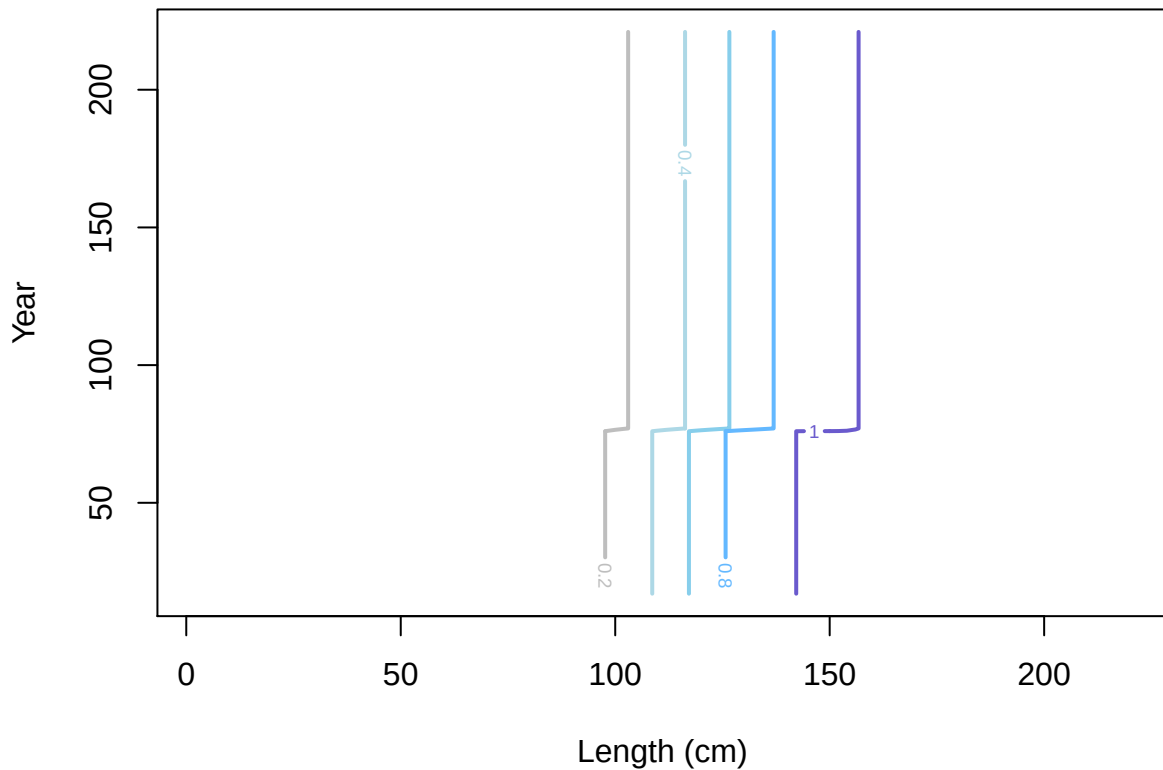
Female ending year selectivity for A4-LL-w



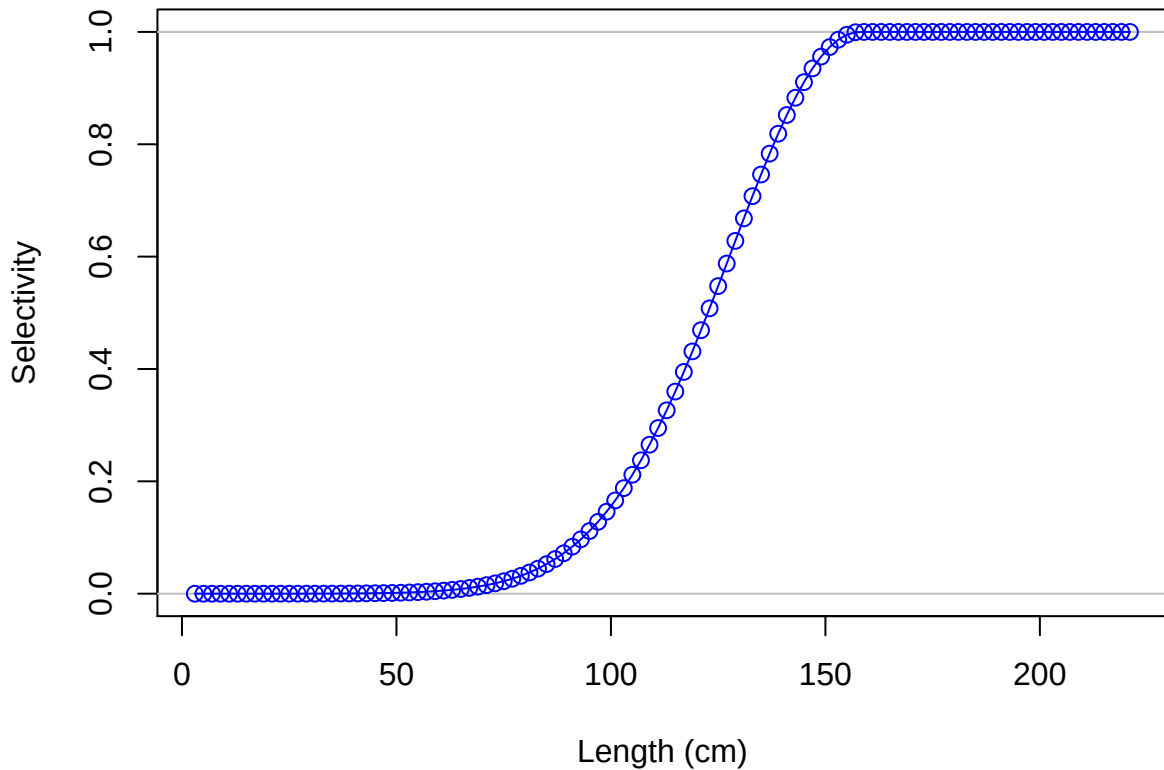
Male time-varying selectivity for A4-LL-w



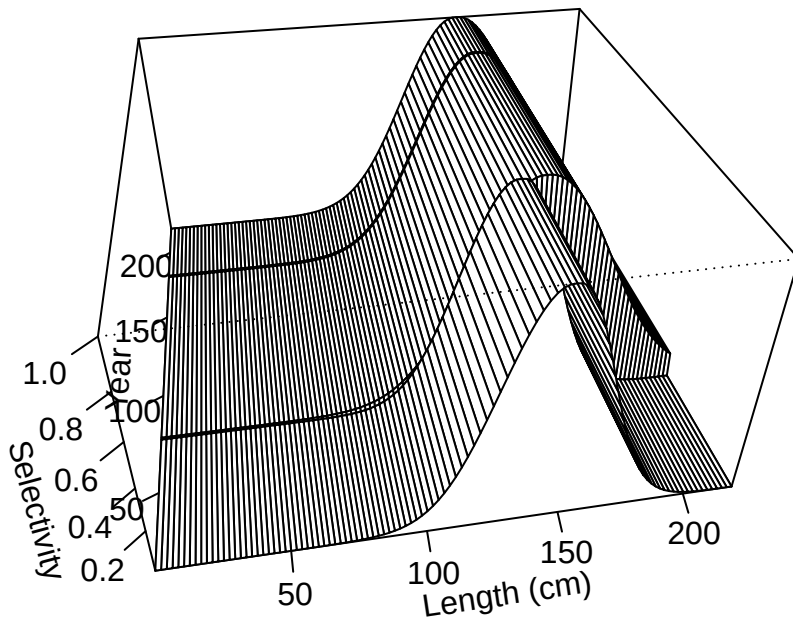
Male time-varying selectivity for A4-LL-w



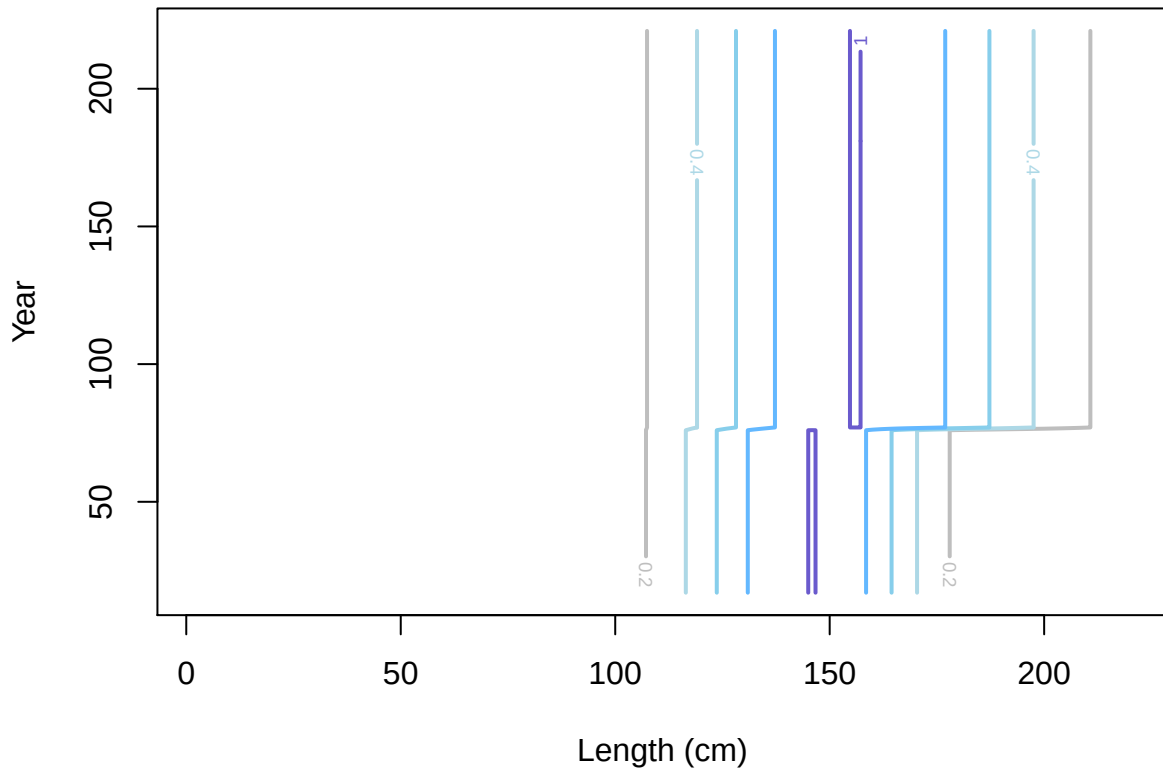
Male ending year selectivity for A4-LL-w



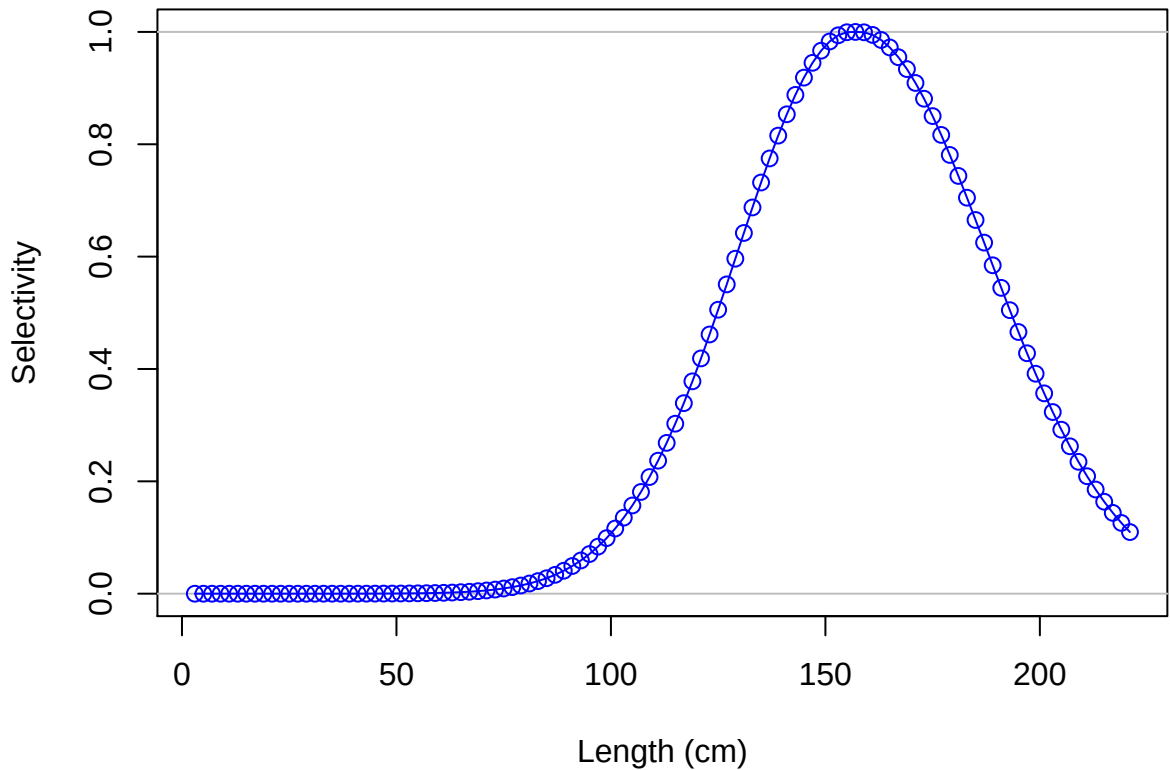
Female time-varying selectivity for A5-LL-w



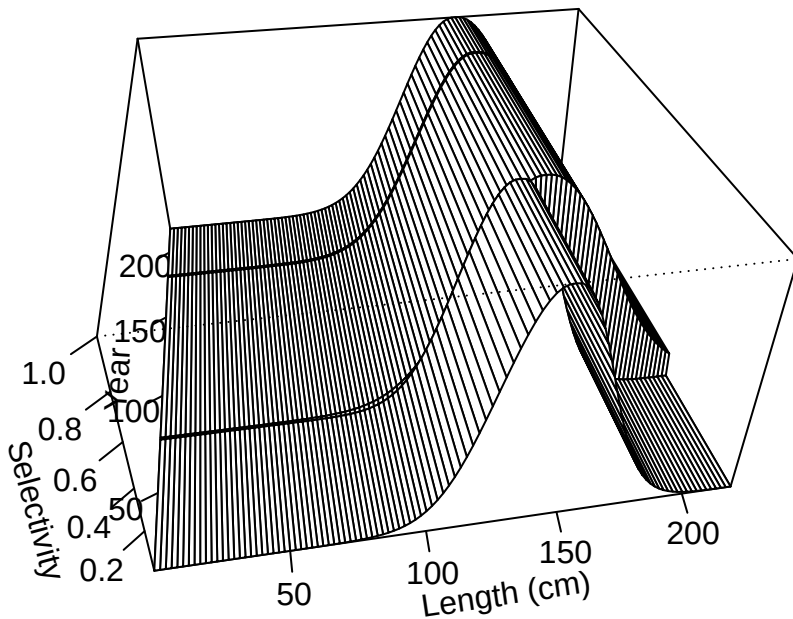
Female time-varying selectivity for A5-LL-w



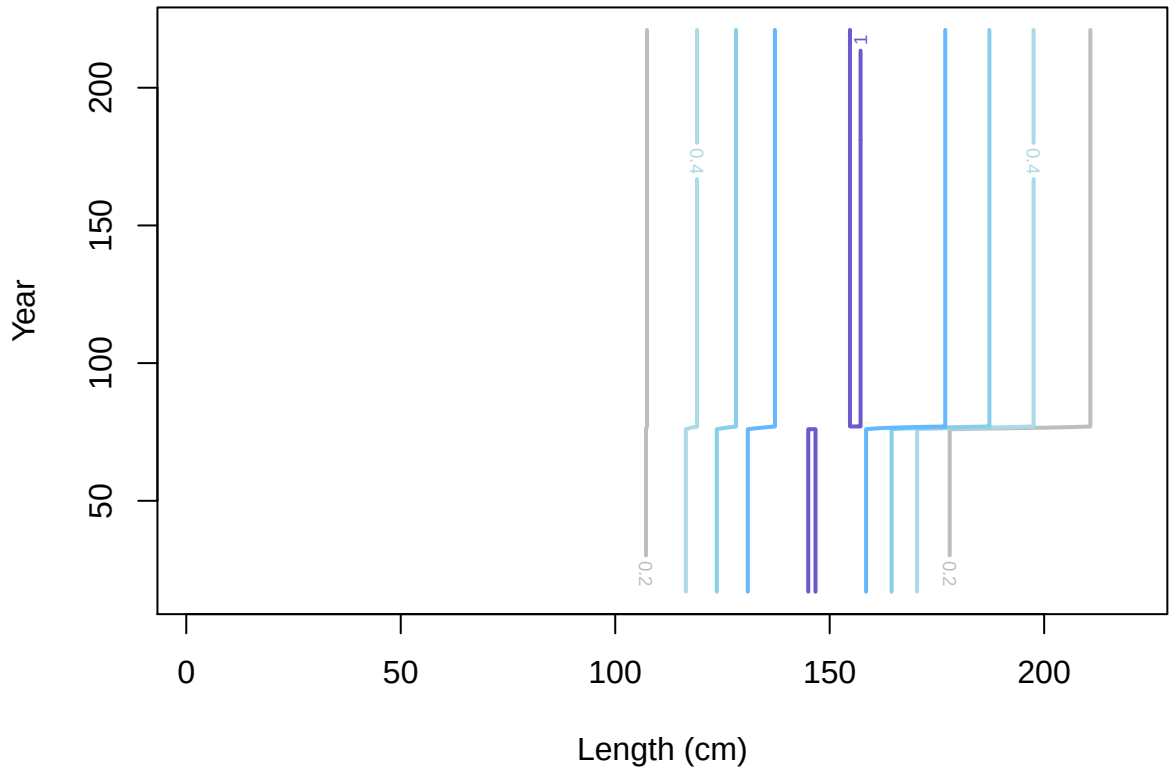
Female ending year selectivity for A5-LL-w



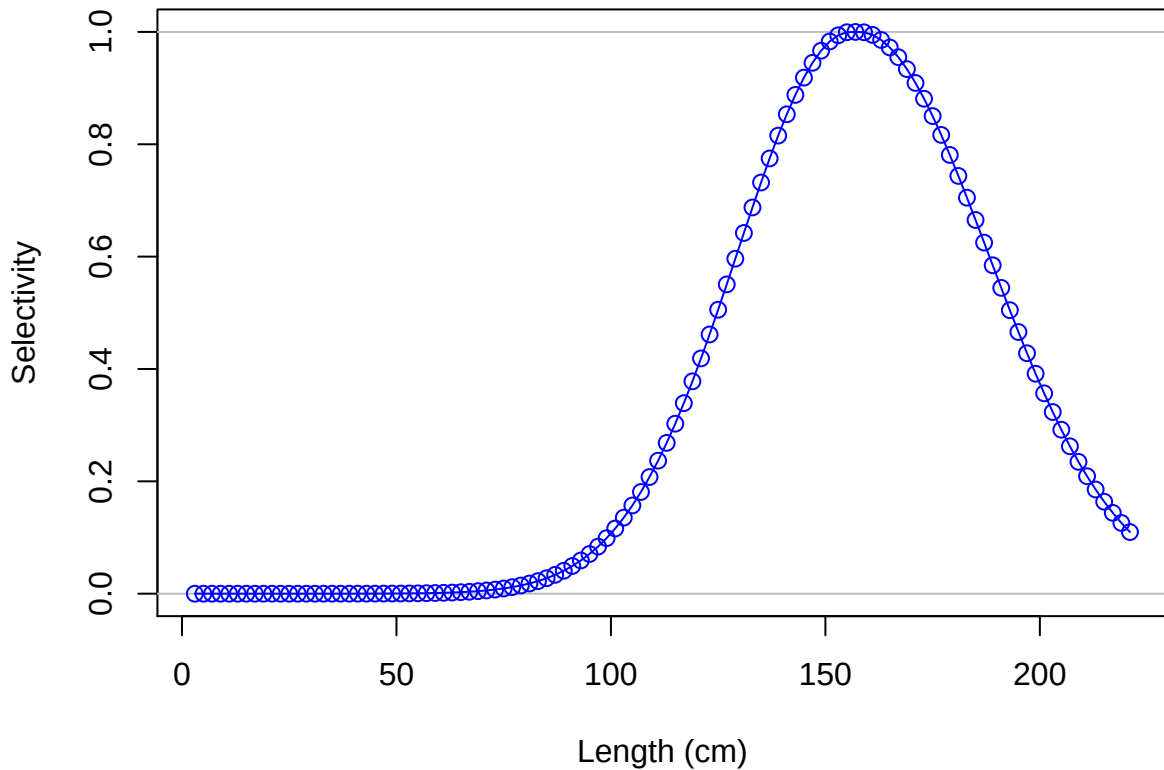
Male time-varying selectivity for A5-LL-w



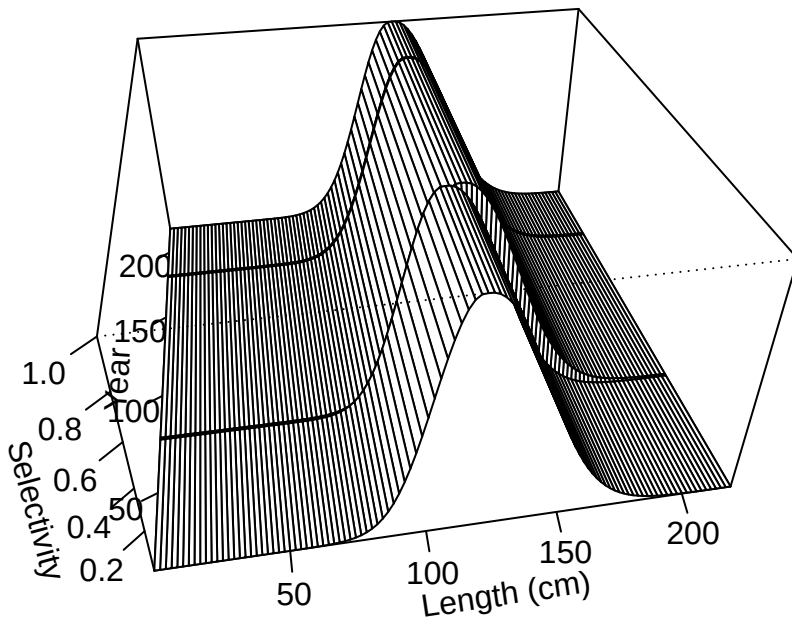
Male time-varying selectivity for A5-LL-w



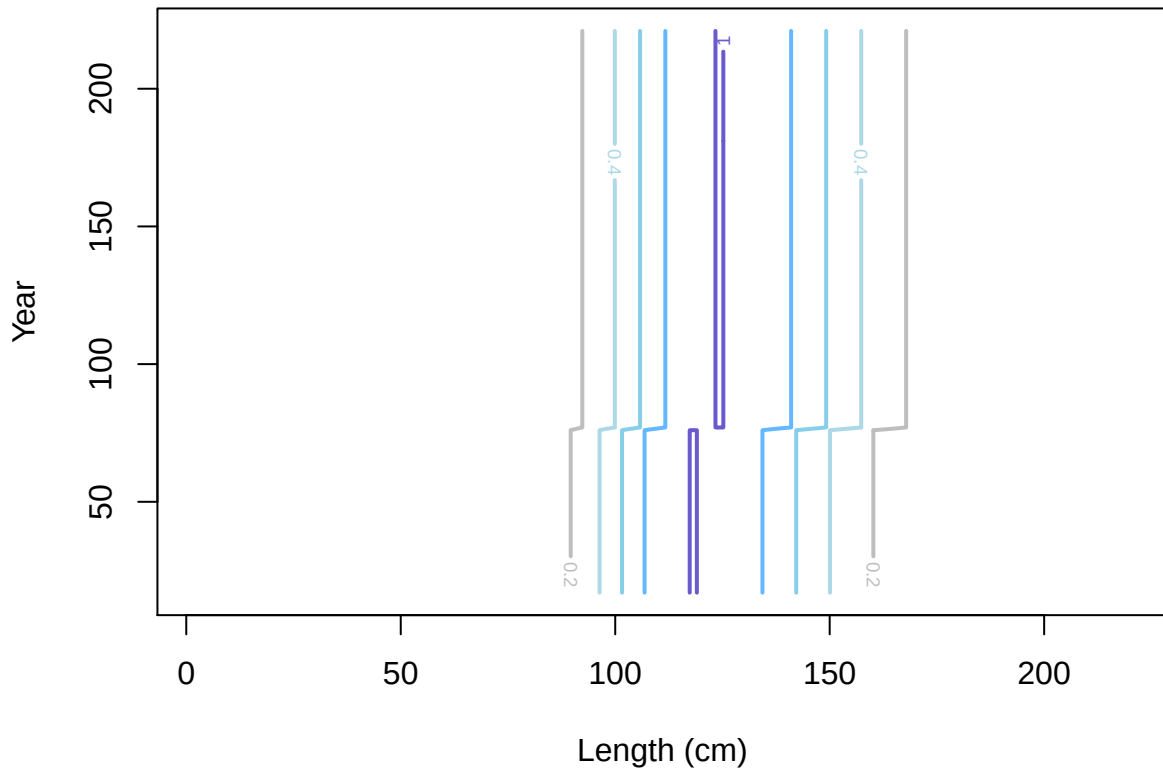
Male ending year selectivity for A5-LL-w



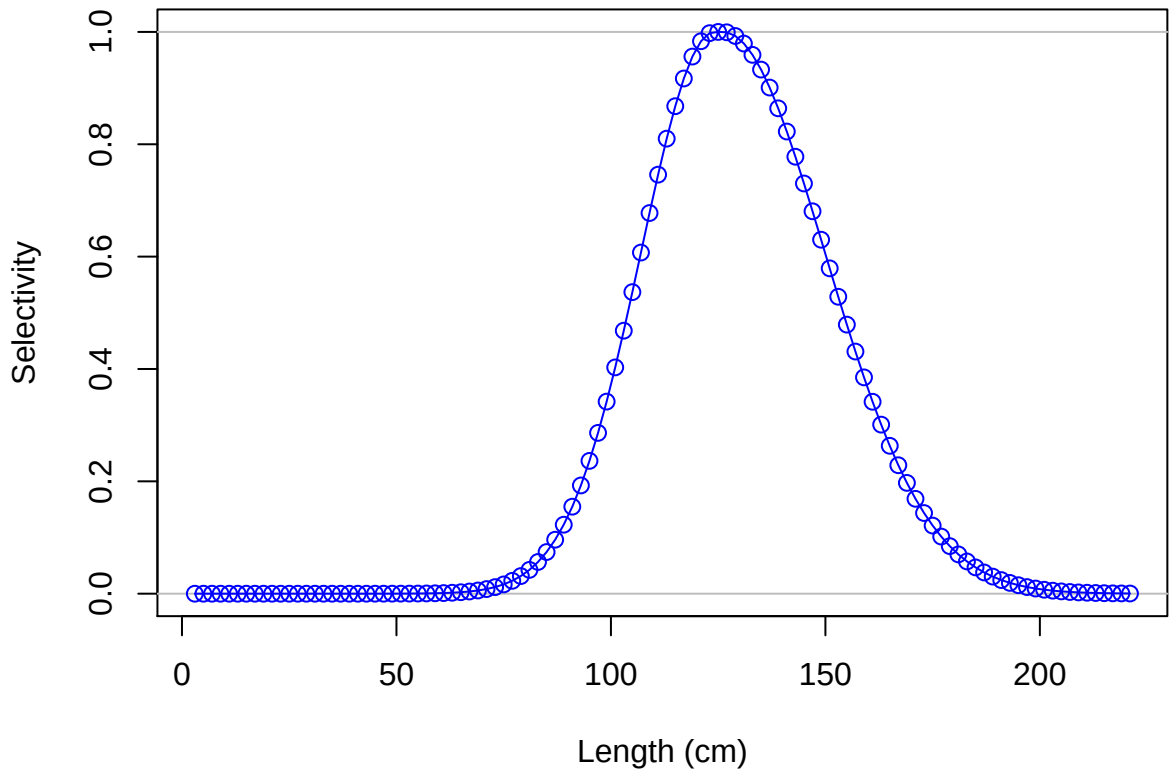
Female time-varying selectivity for A6-LL-w



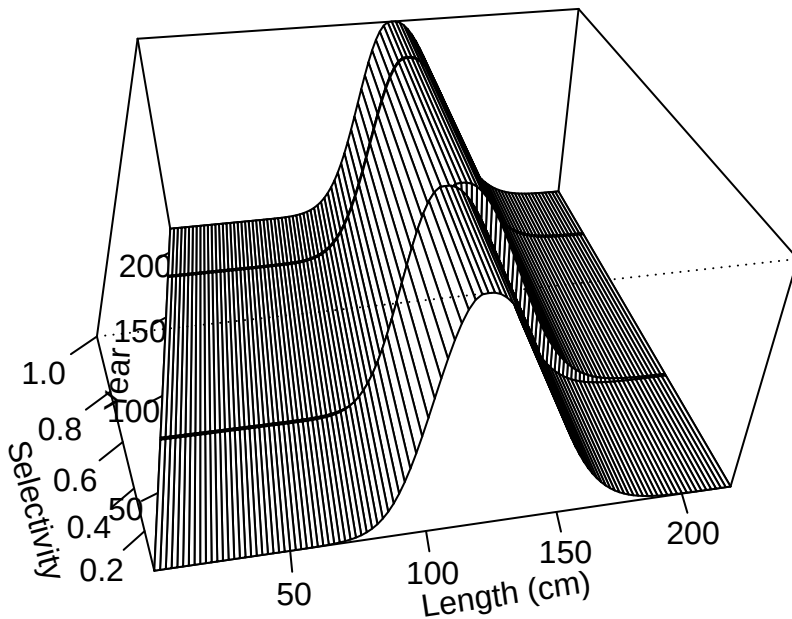
Female time-varying selectivity for A6-LL-w



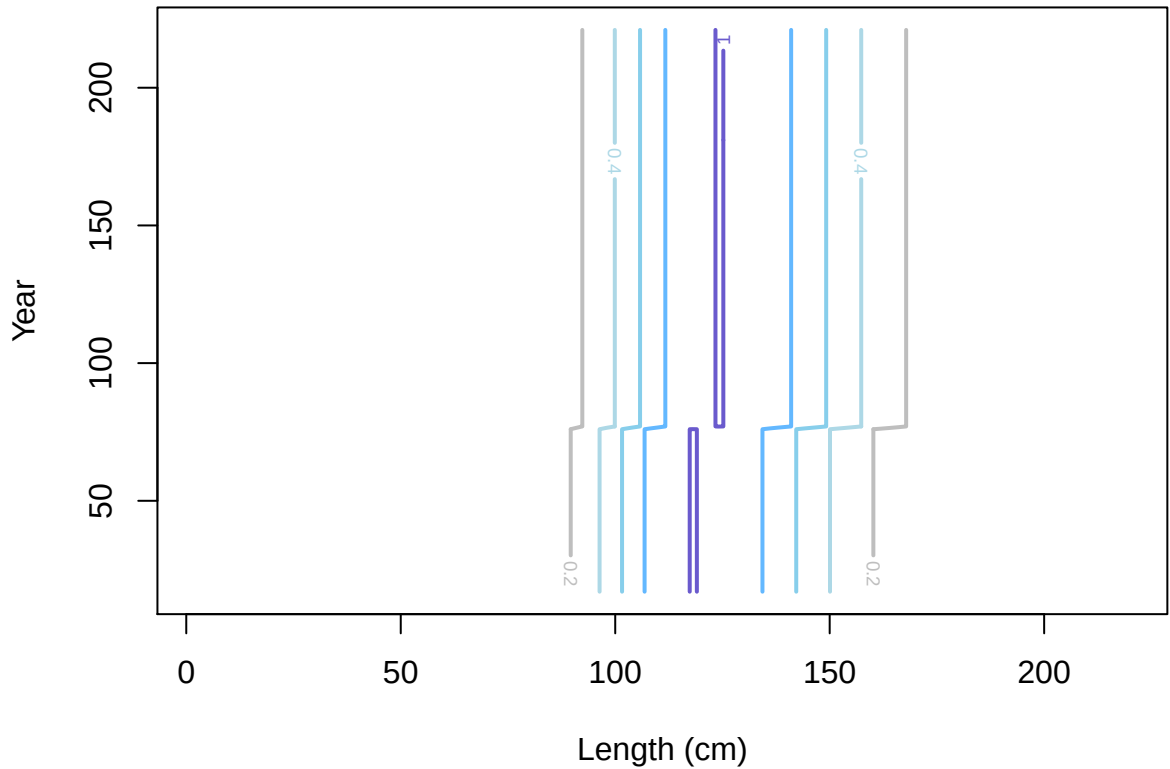
Female ending year selectivity for A6-LL-w



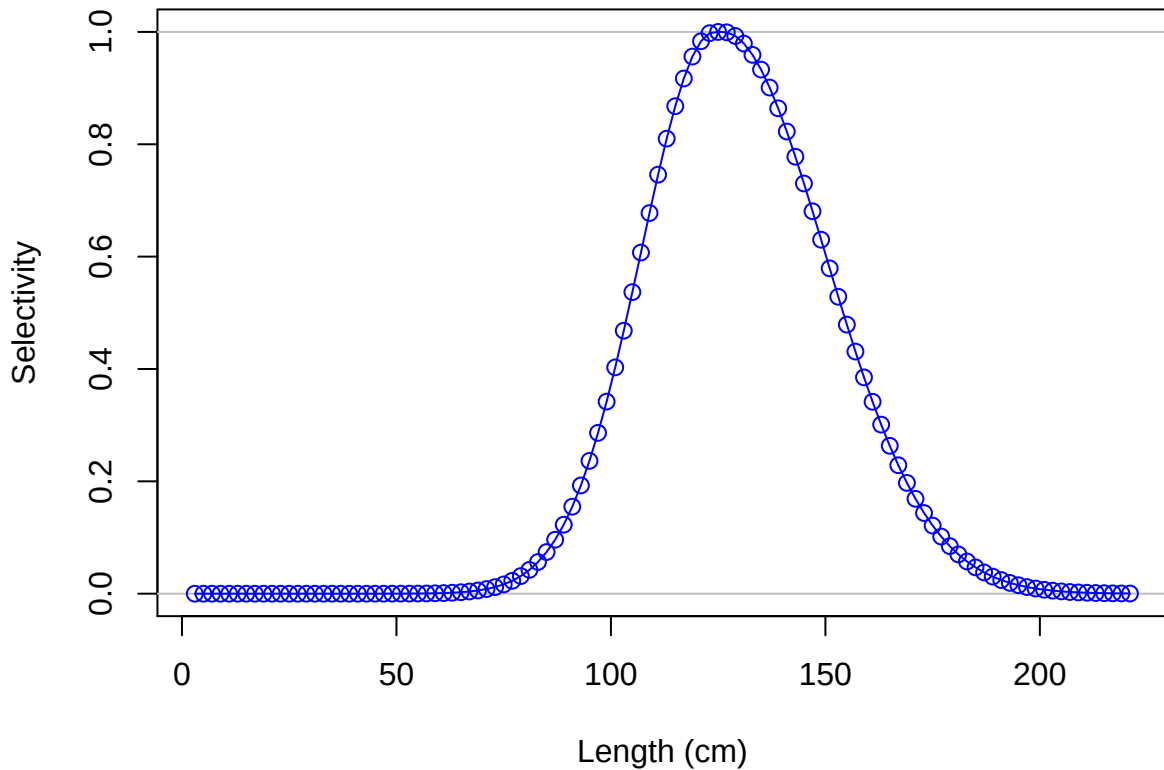
Male time-varying selectivity for A6-LL-w



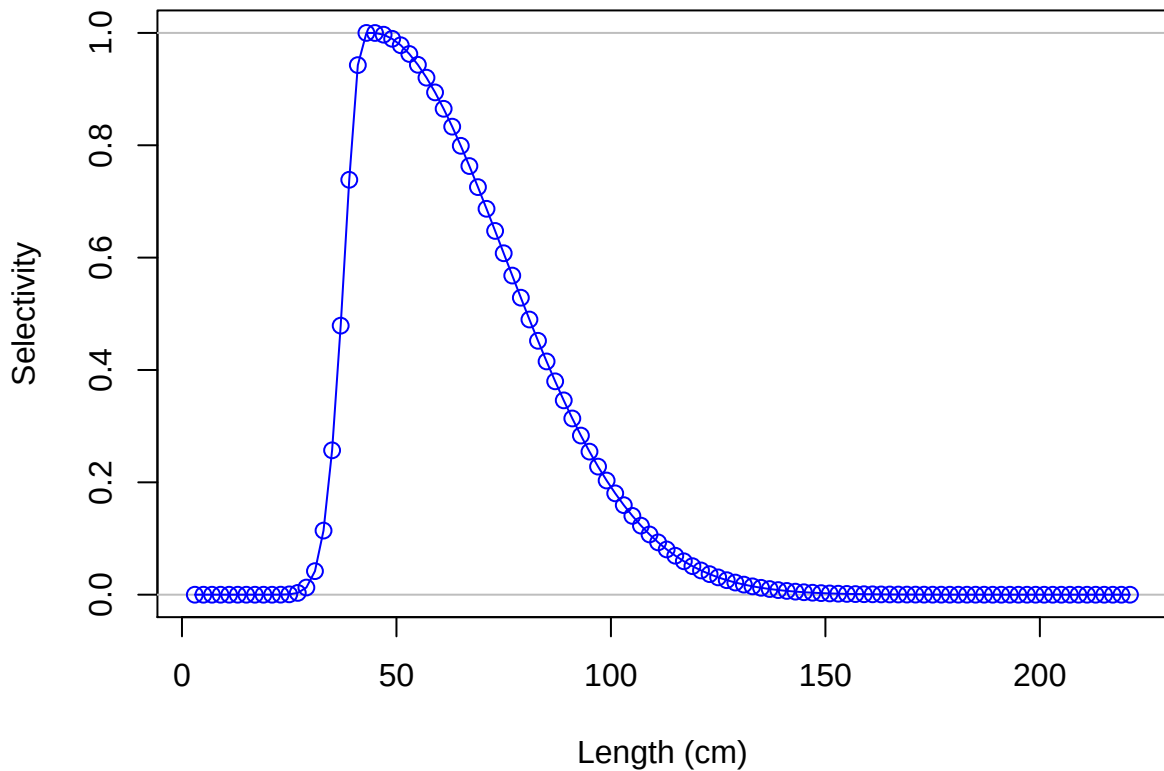
Male time-varying selectivity for A6-LL-w



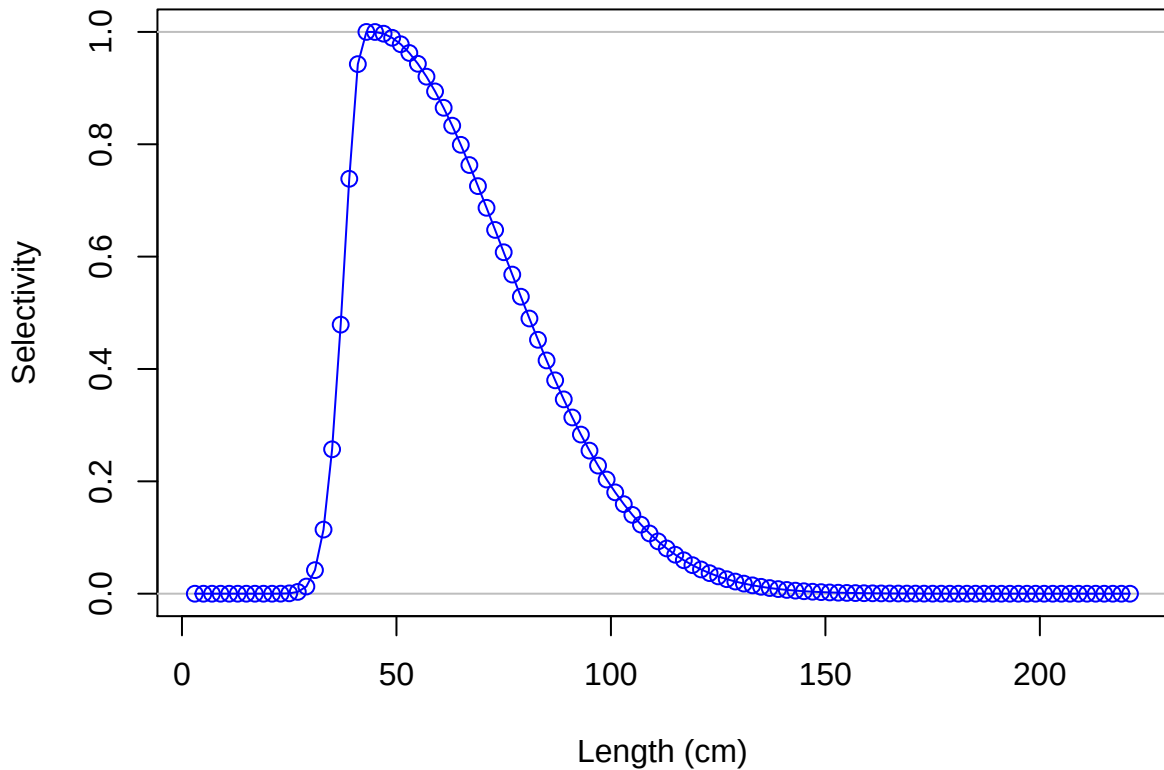
Male ending year selectivity for A6-LL-w



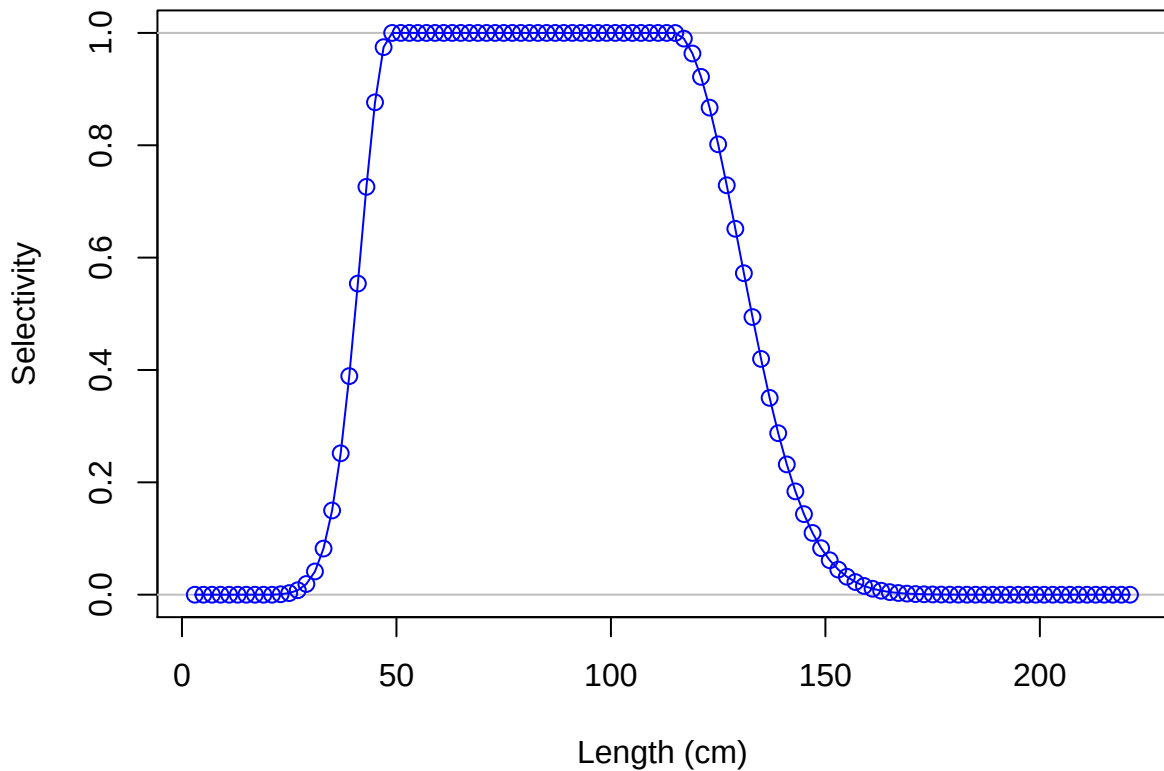
Female ending year selectivity for A2-OBJ



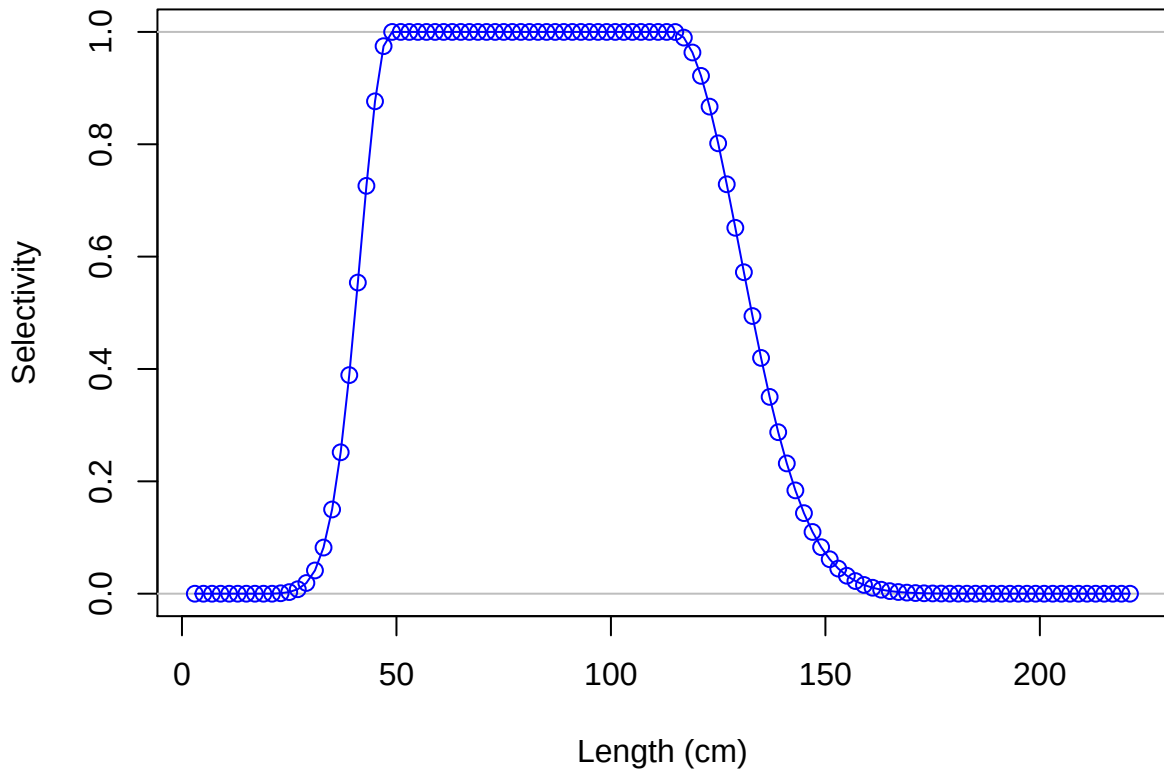
Male ending year selectivity for A2-OBJ



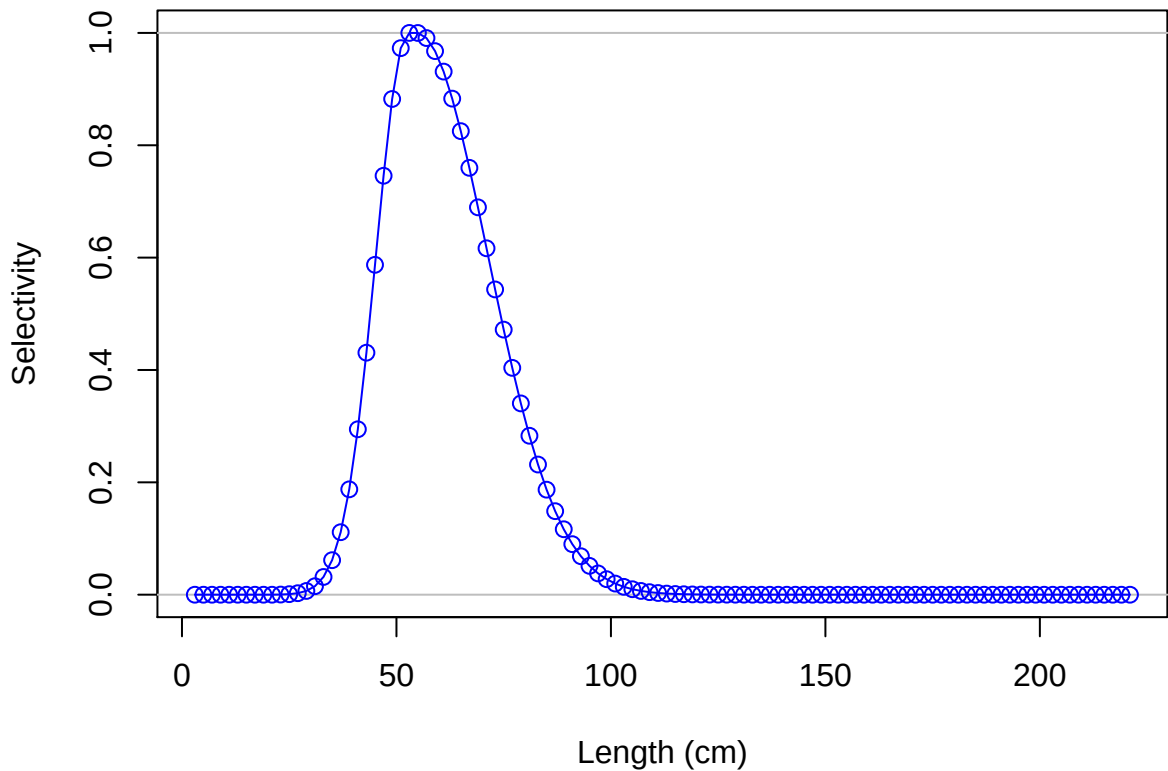
Female ending year selectivity for A3-OBJ



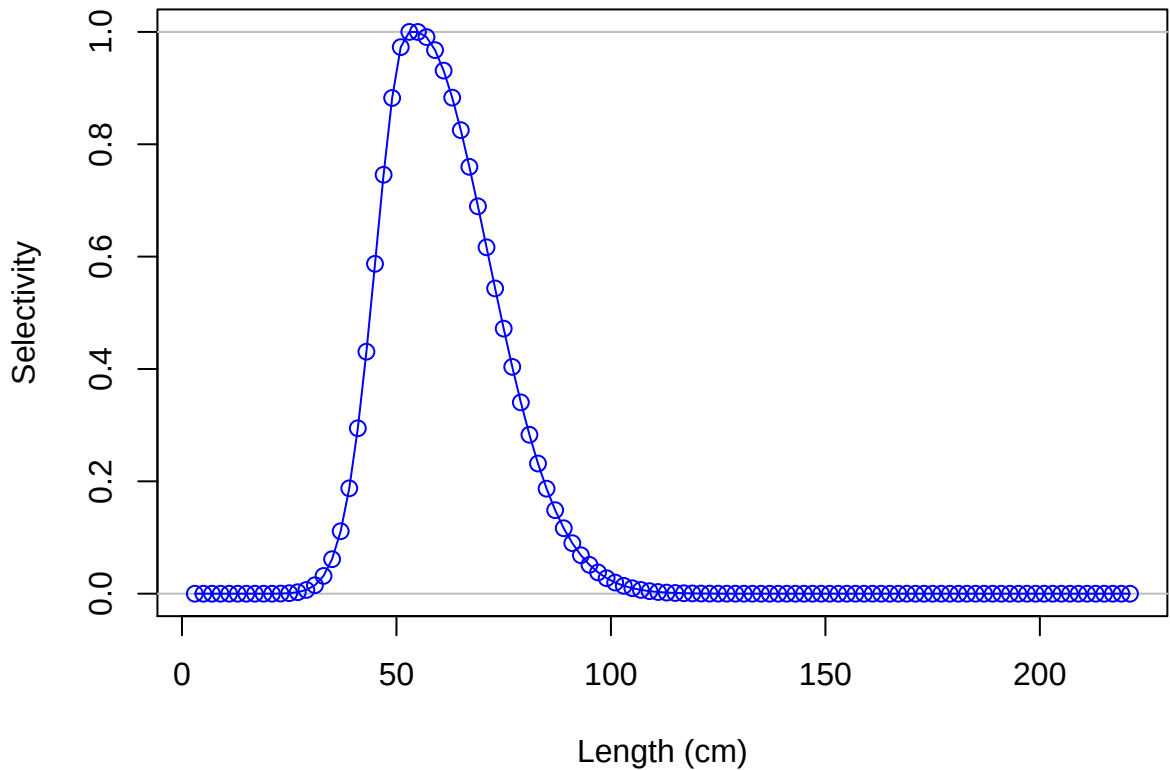
Male ending year selectivity for A3-OBJ



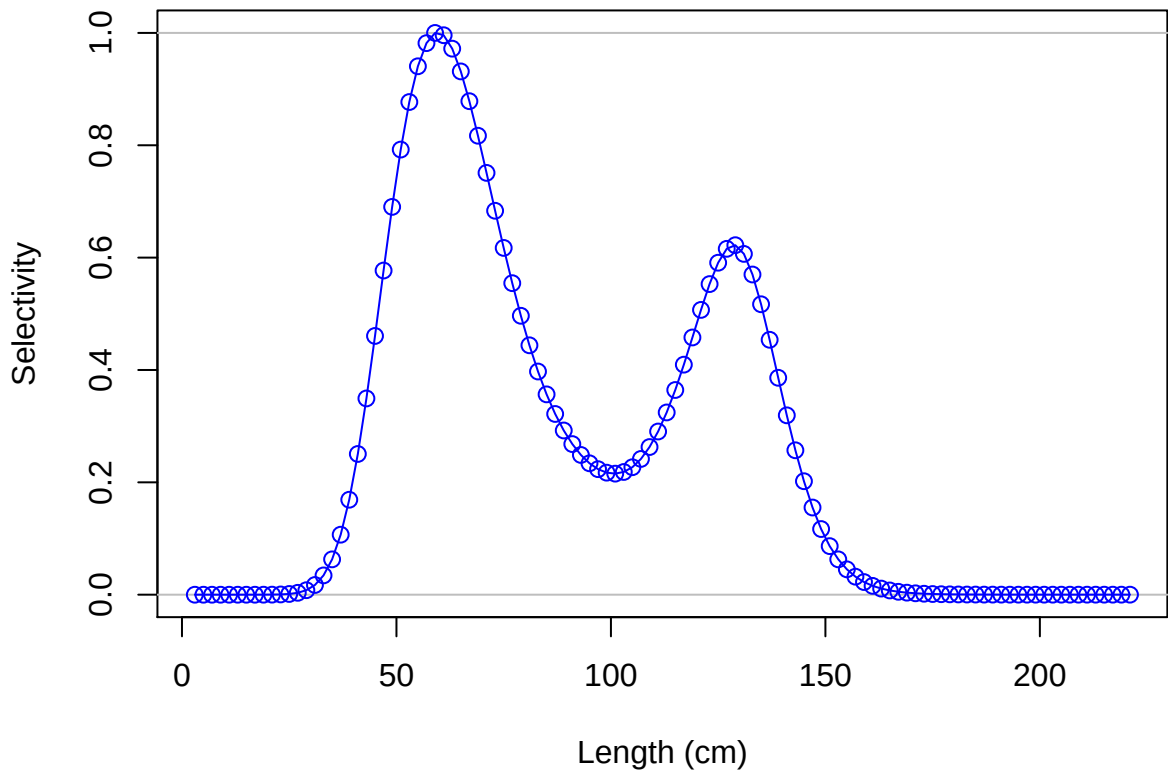
Female ending year selectivity for A4-OBJ



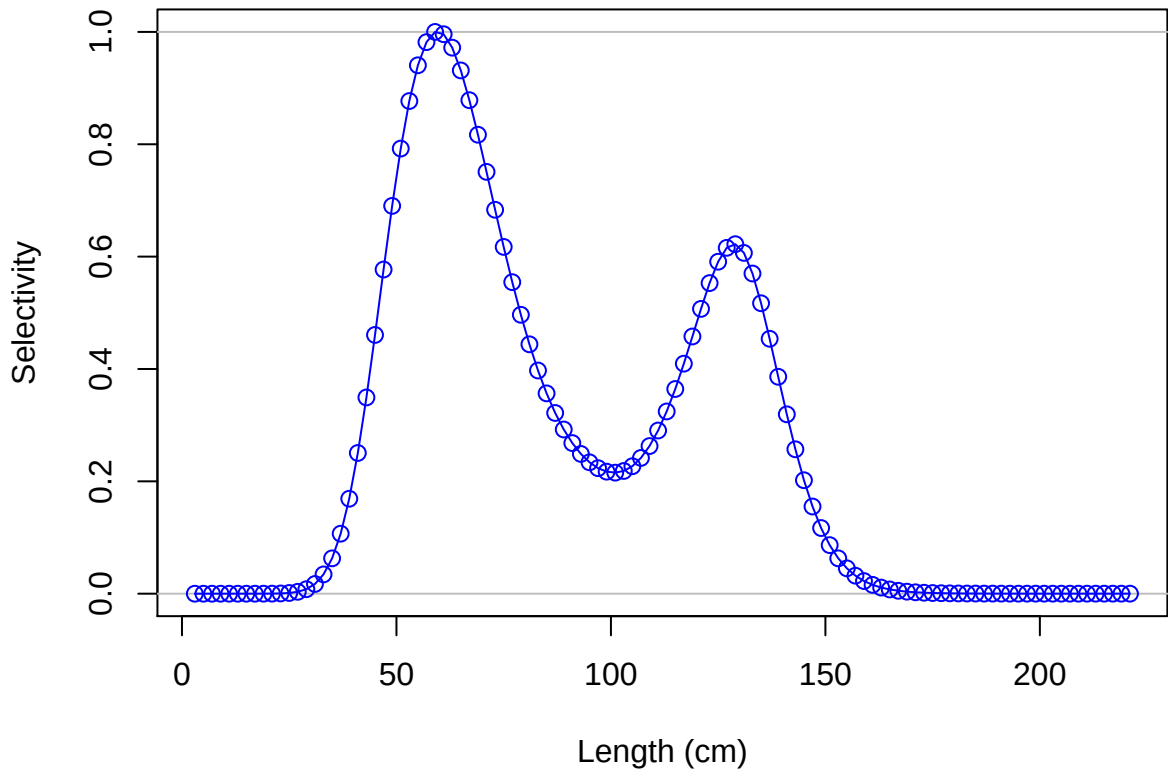
Male ending year selectivity for A4-OBJ



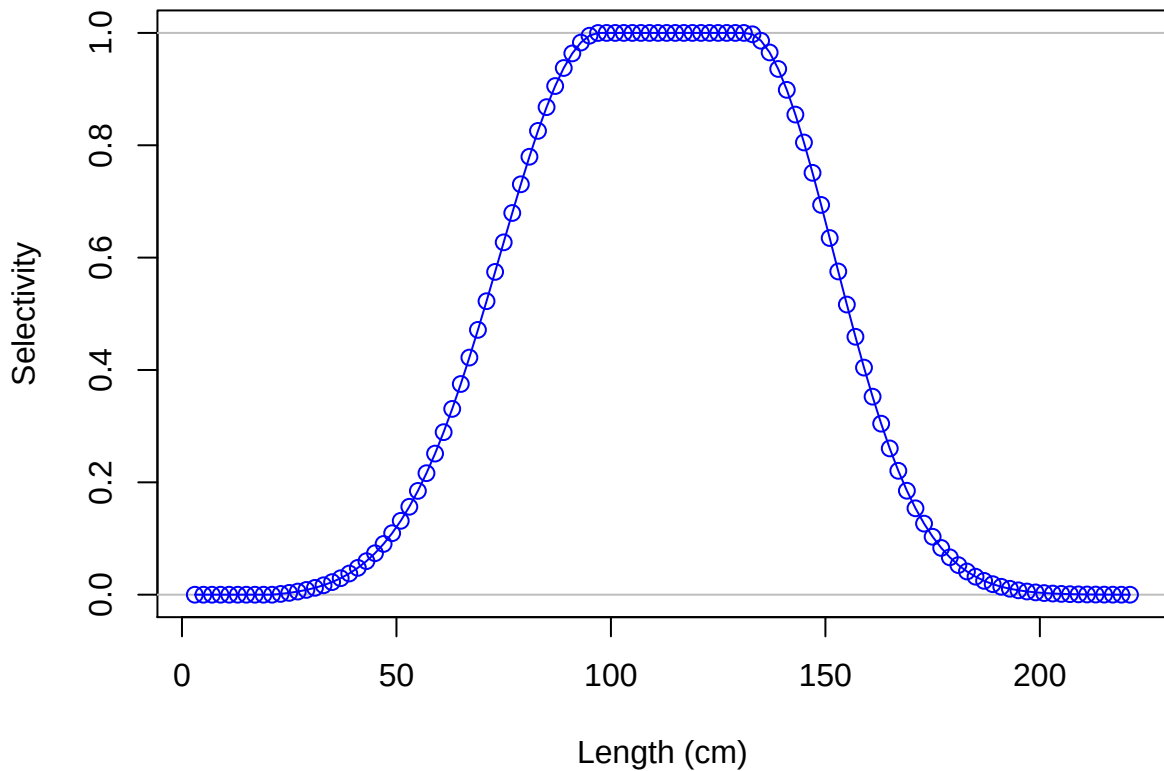
Female ending year selectivity for A5-OBJ



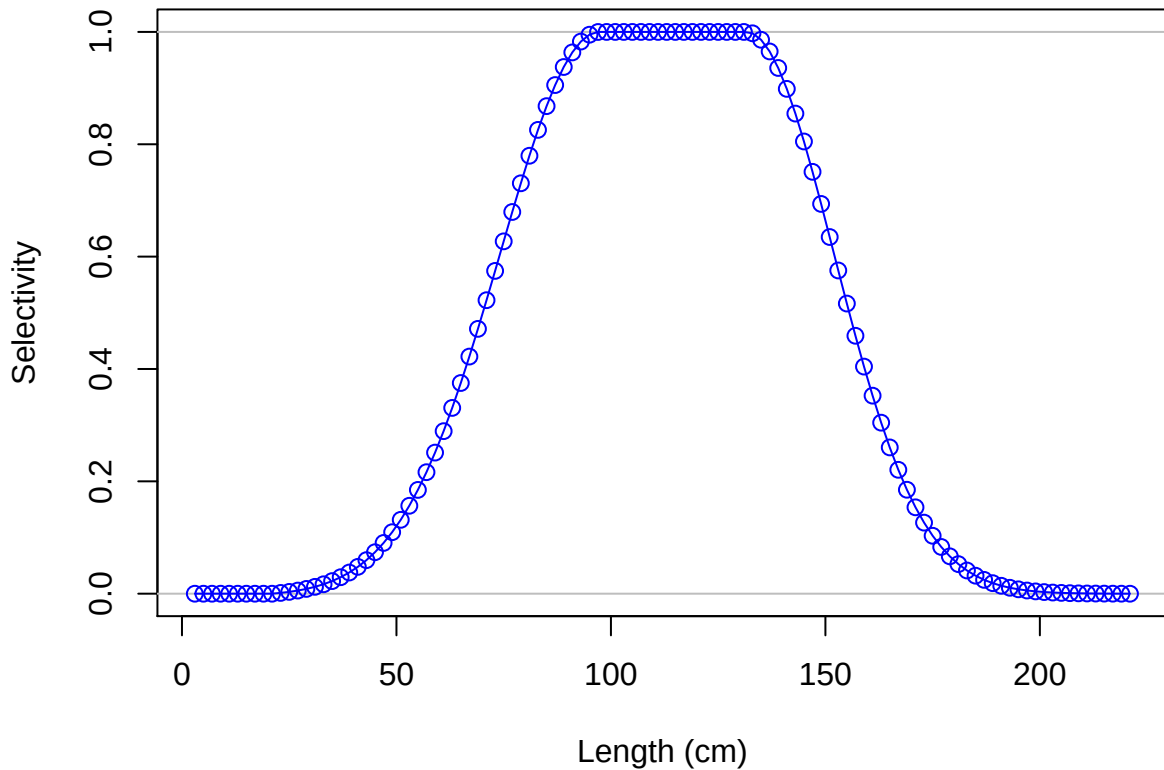
Male ending year selectivity for A5-OBJ



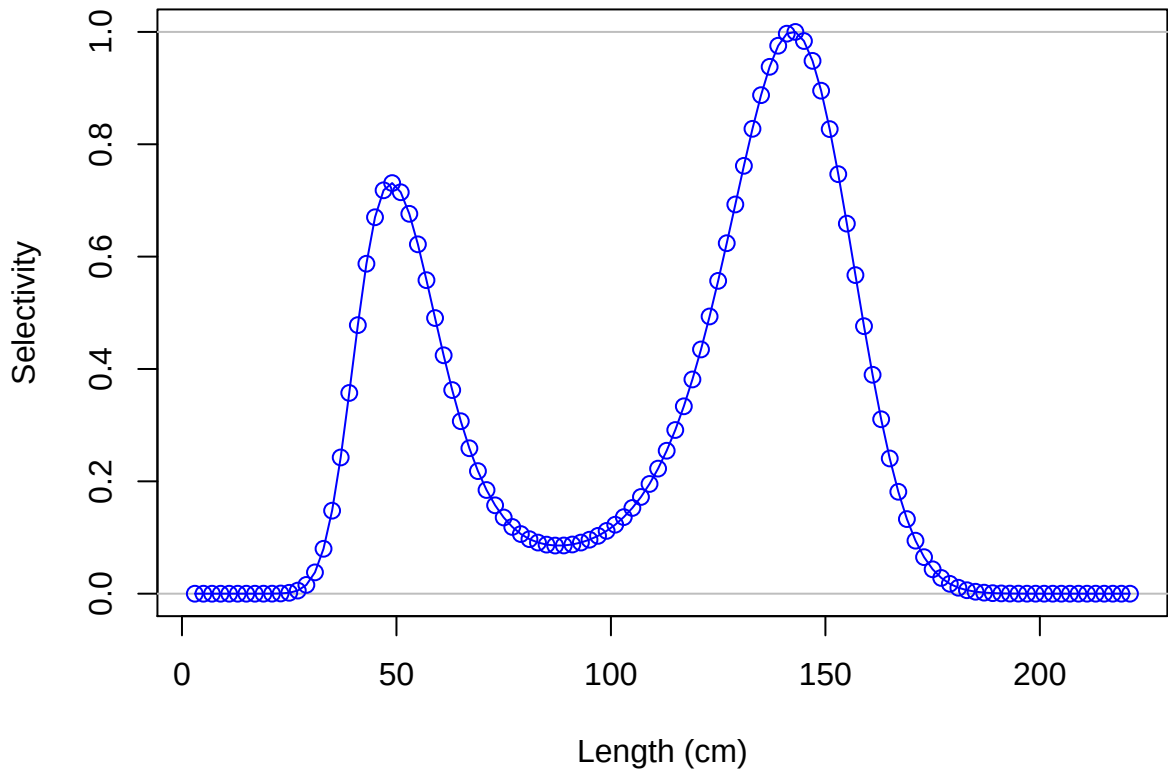
Female ending year selectivity for A6-OBJ



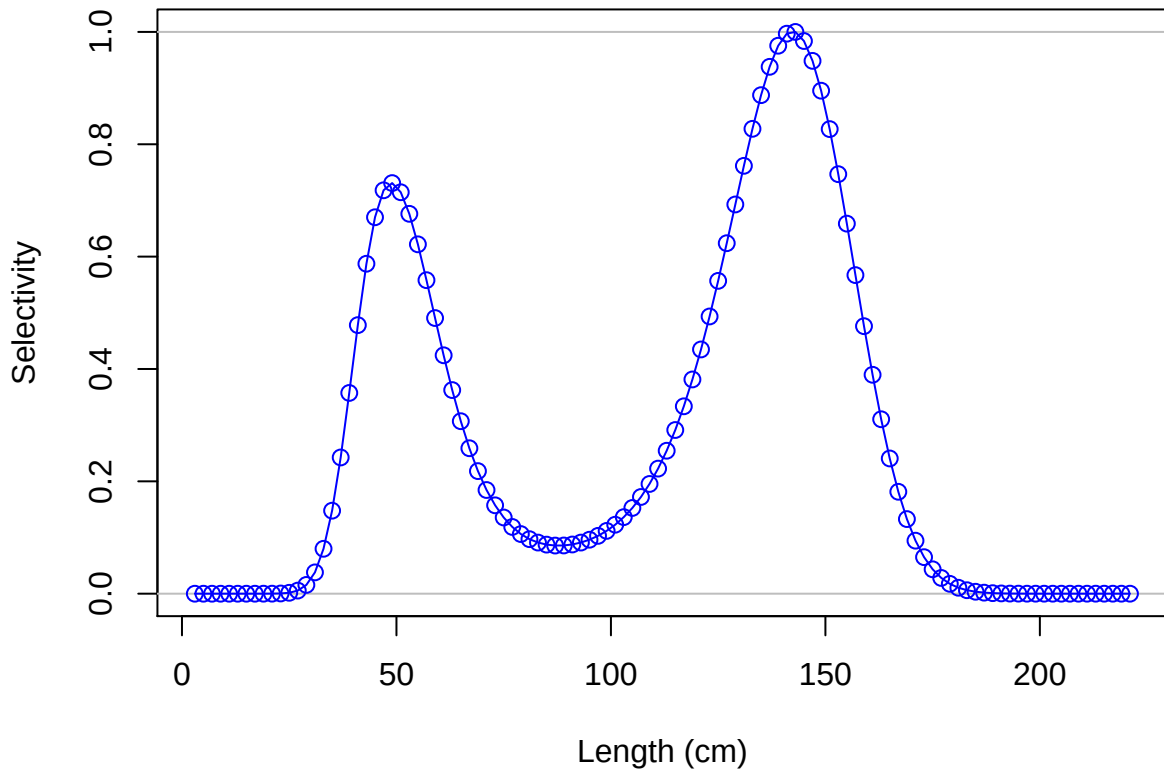
Male ending year selectivity for A6-OBJ



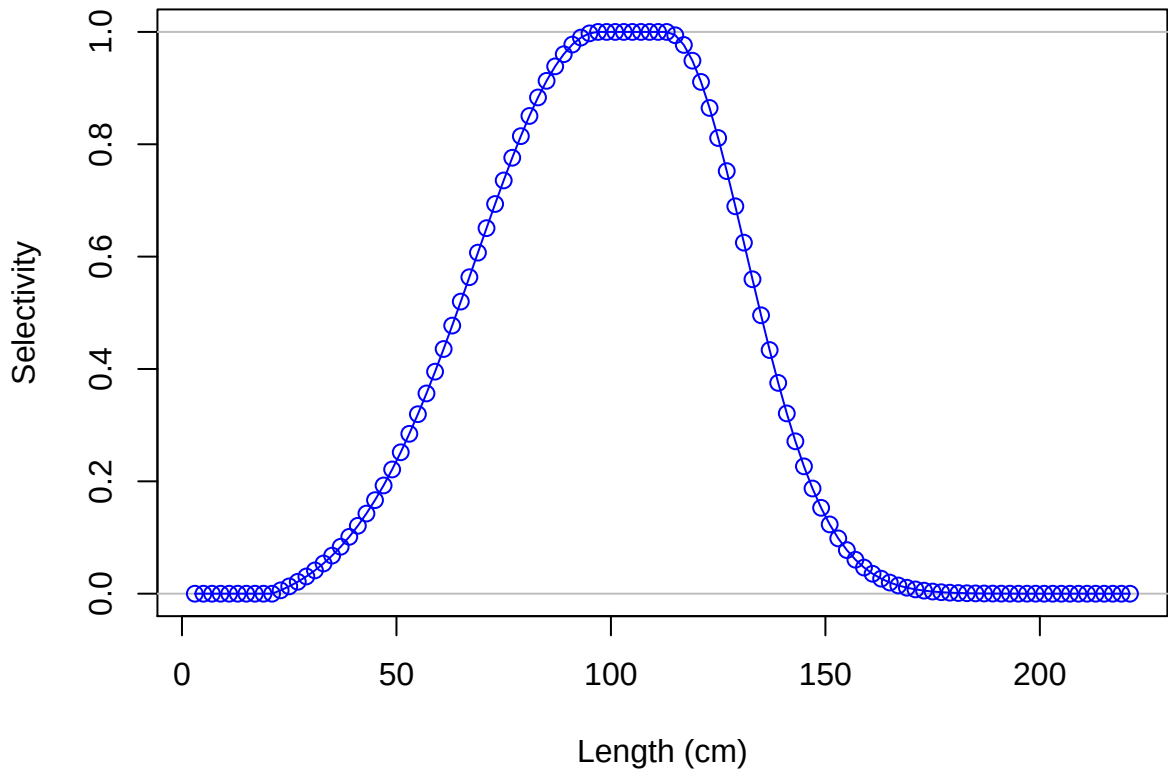
Female ending year selectivity for A2-NOADEL



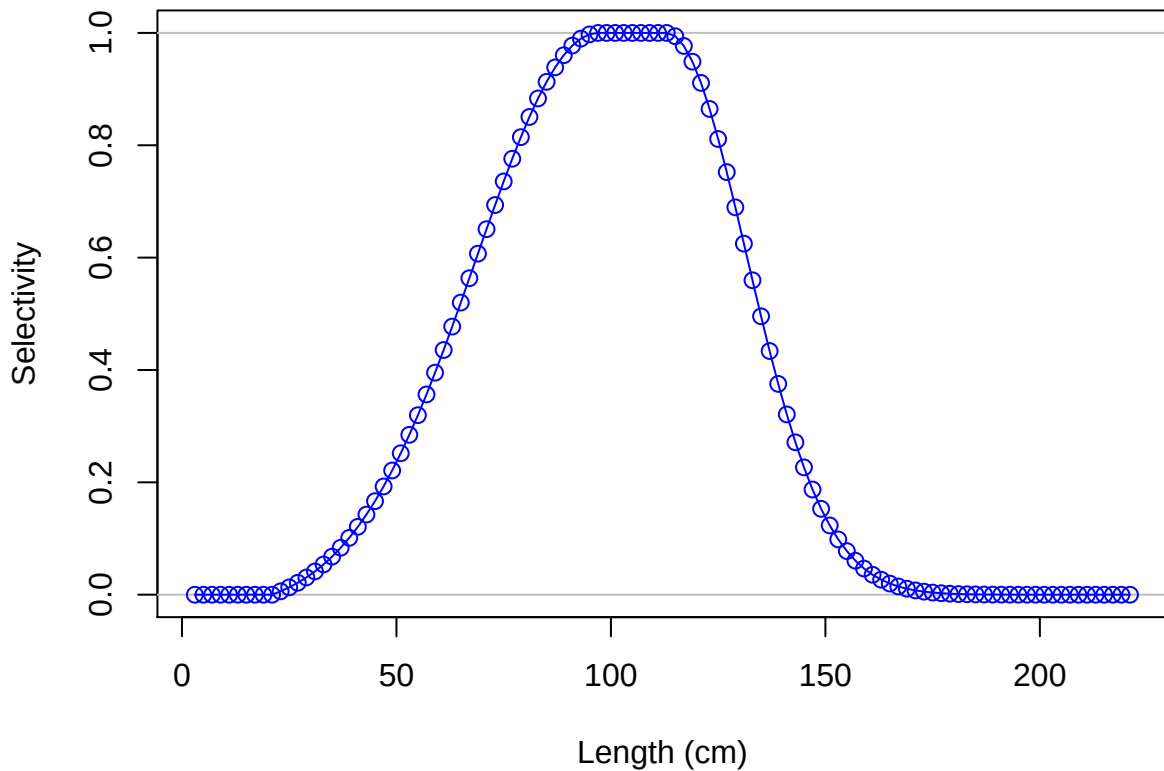
Male ending year selectivity for A2-NOADEL



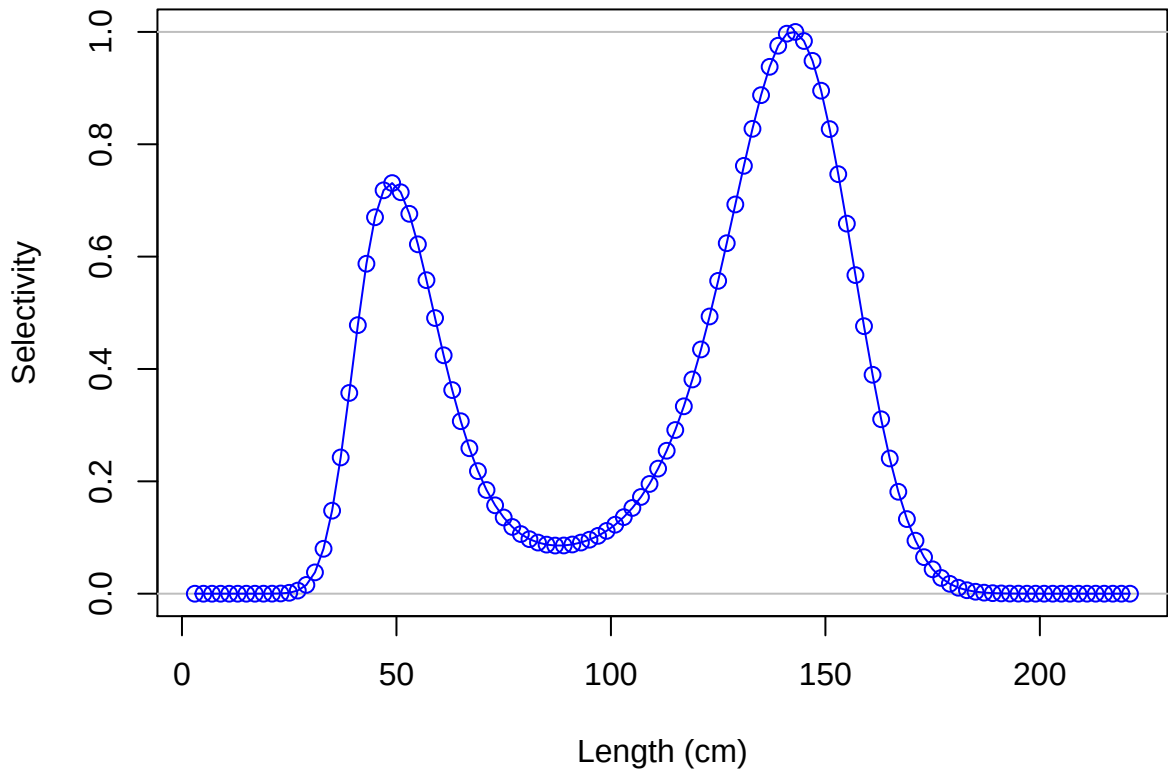
Female ending year selectivity for A3-NOADEL



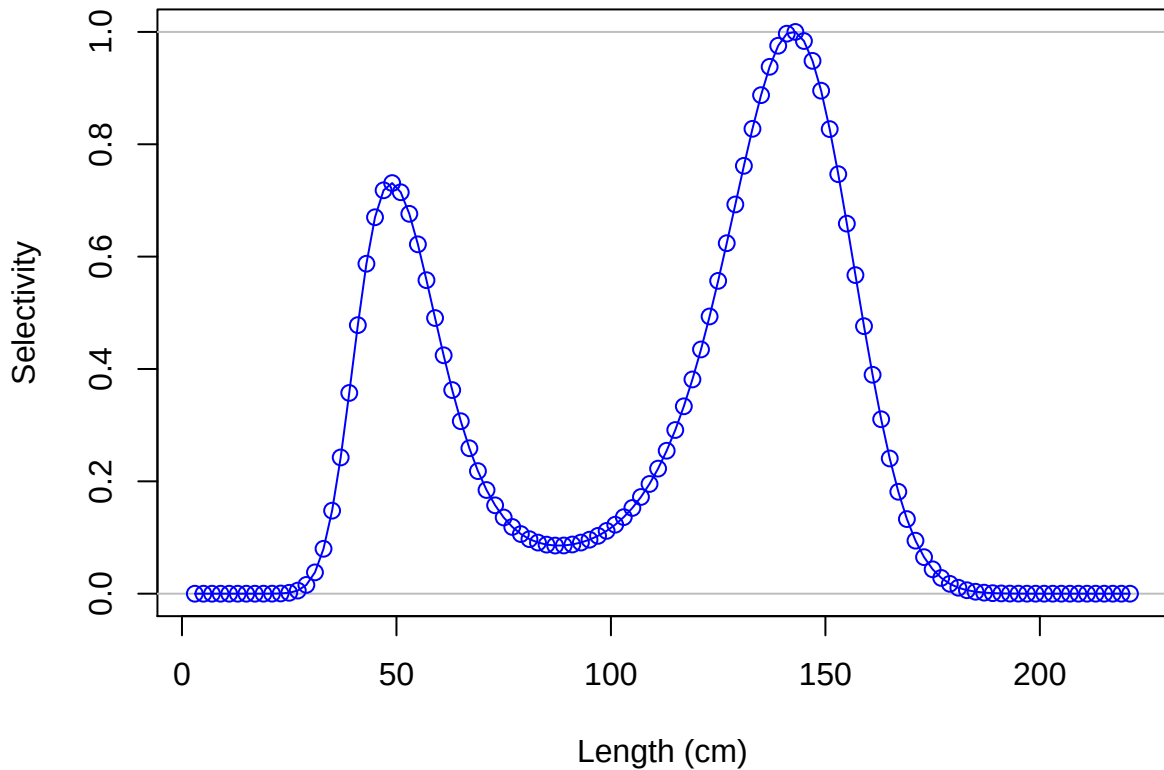
Male ending year selectivity for A3-NOADEL



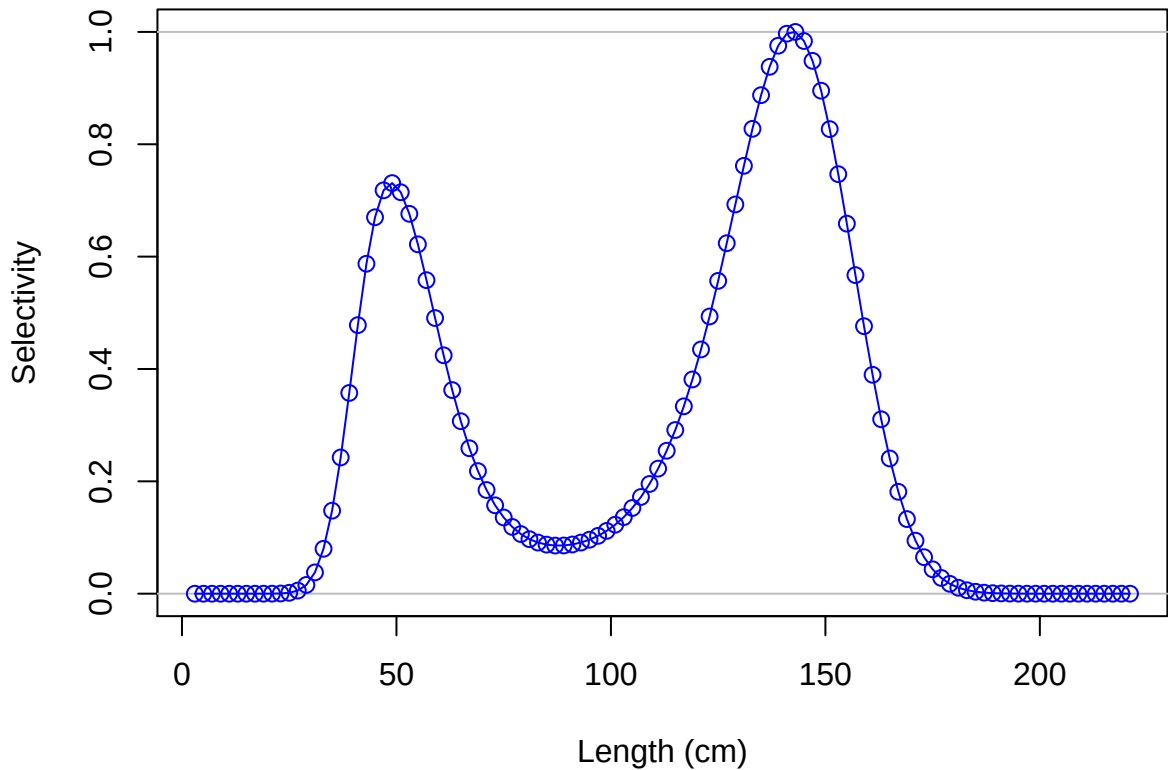
Female ending year selectivity for A4-NOADEL



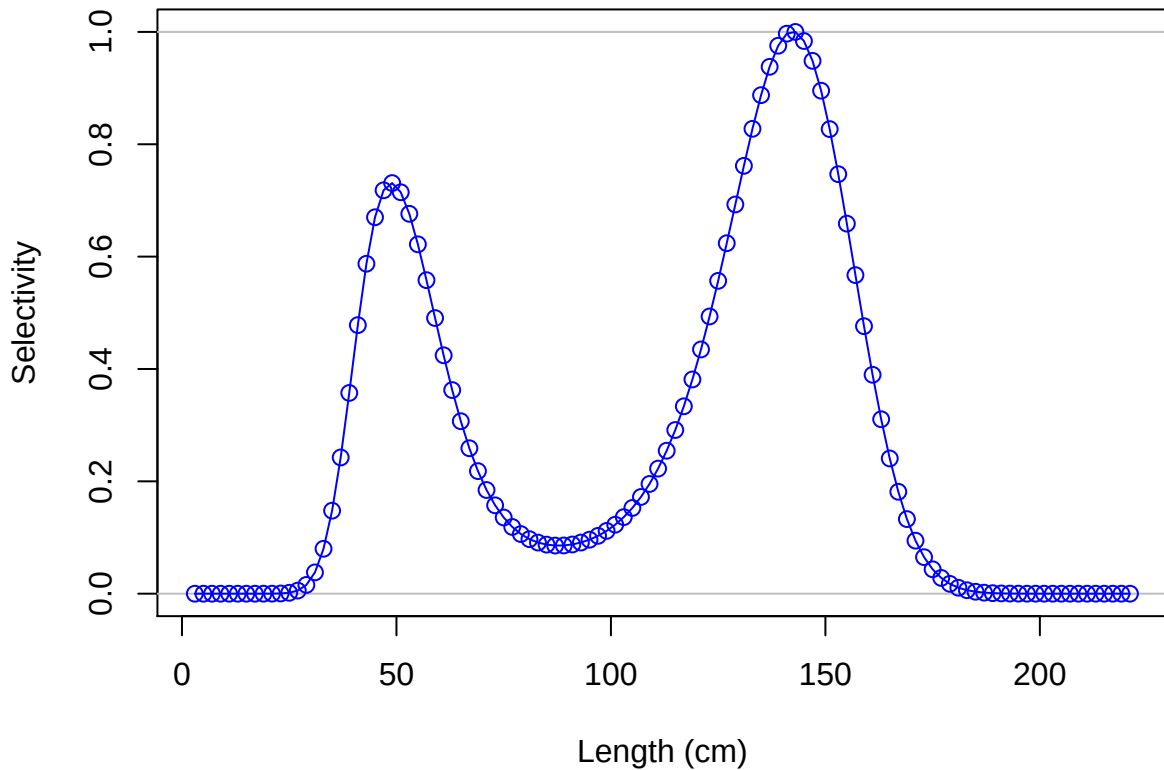
Male ending year selectivity for A4-NOADEL



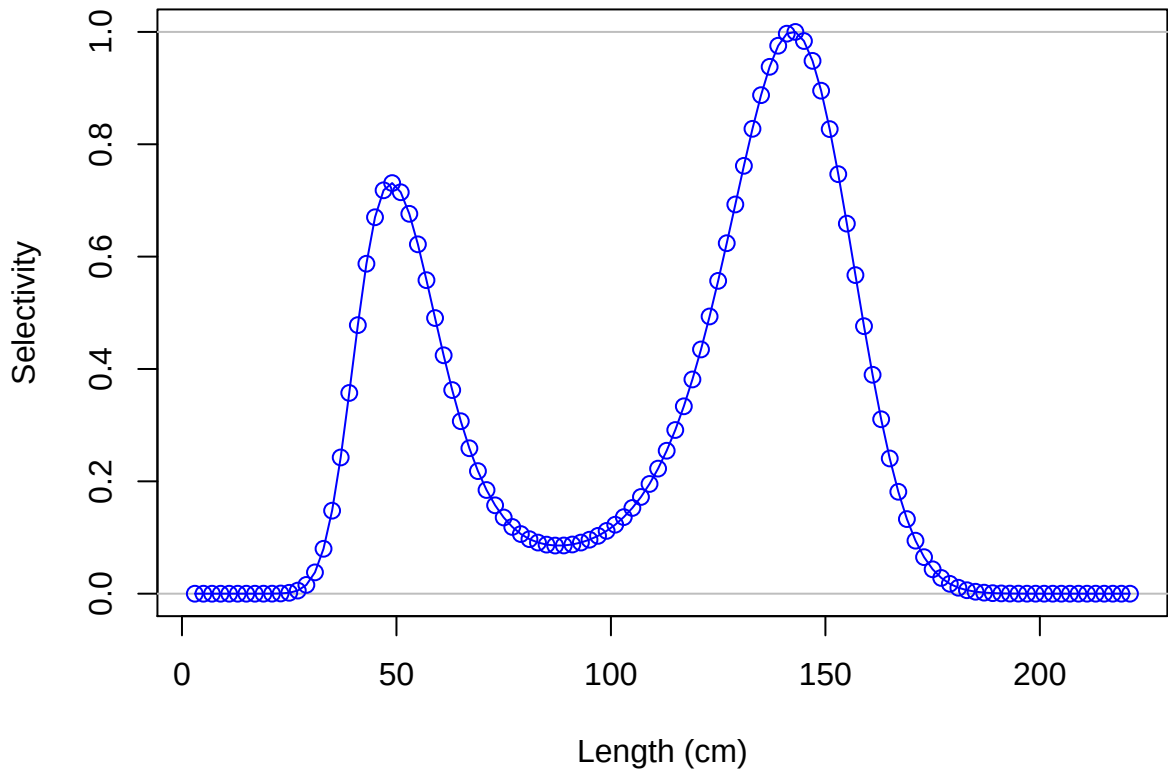
Female ending year selectivity for A5-NOADEL



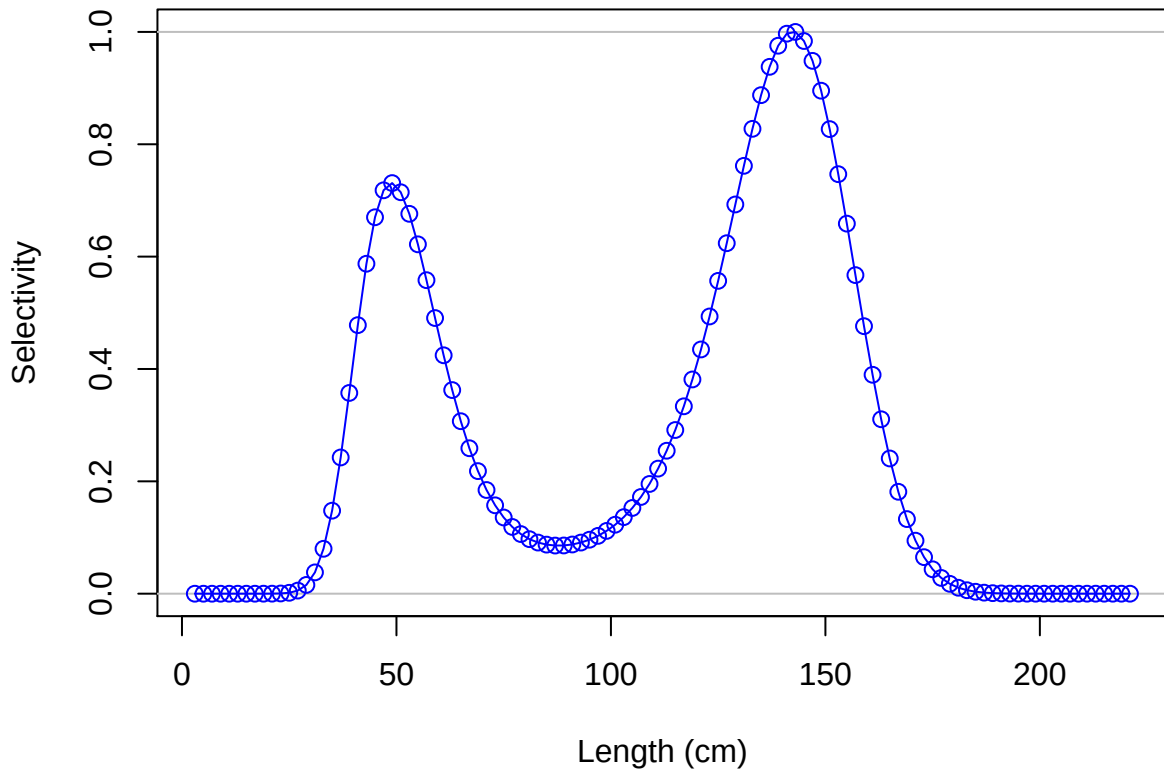
Male ending year selectivity for A5-NOADEL



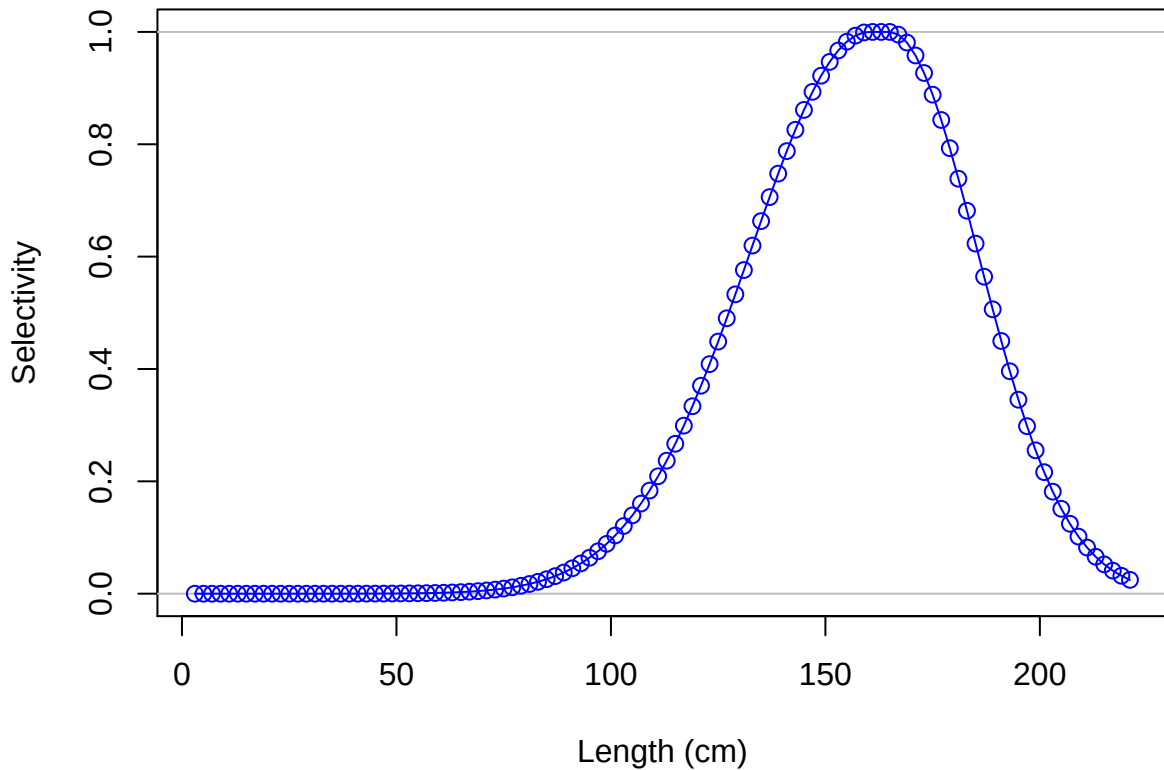
Female ending year selectivity for A6-NOADEL



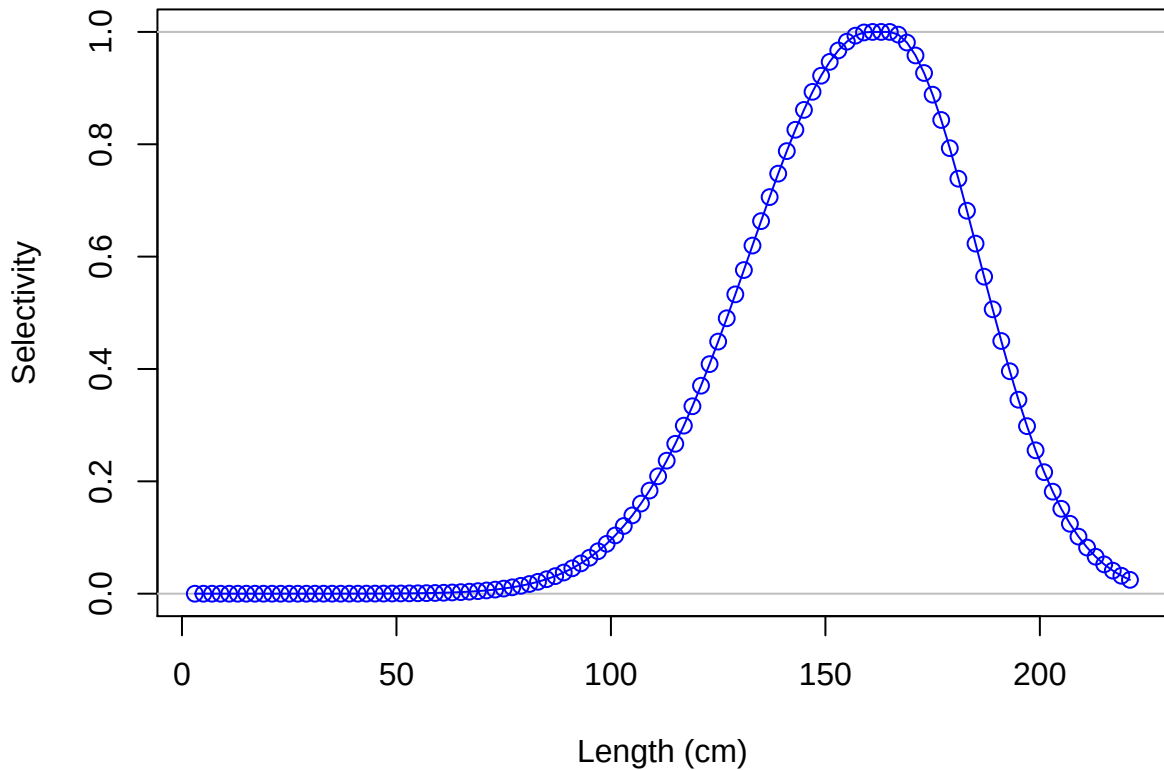
Male ending year selectivity for A6-NOADEL



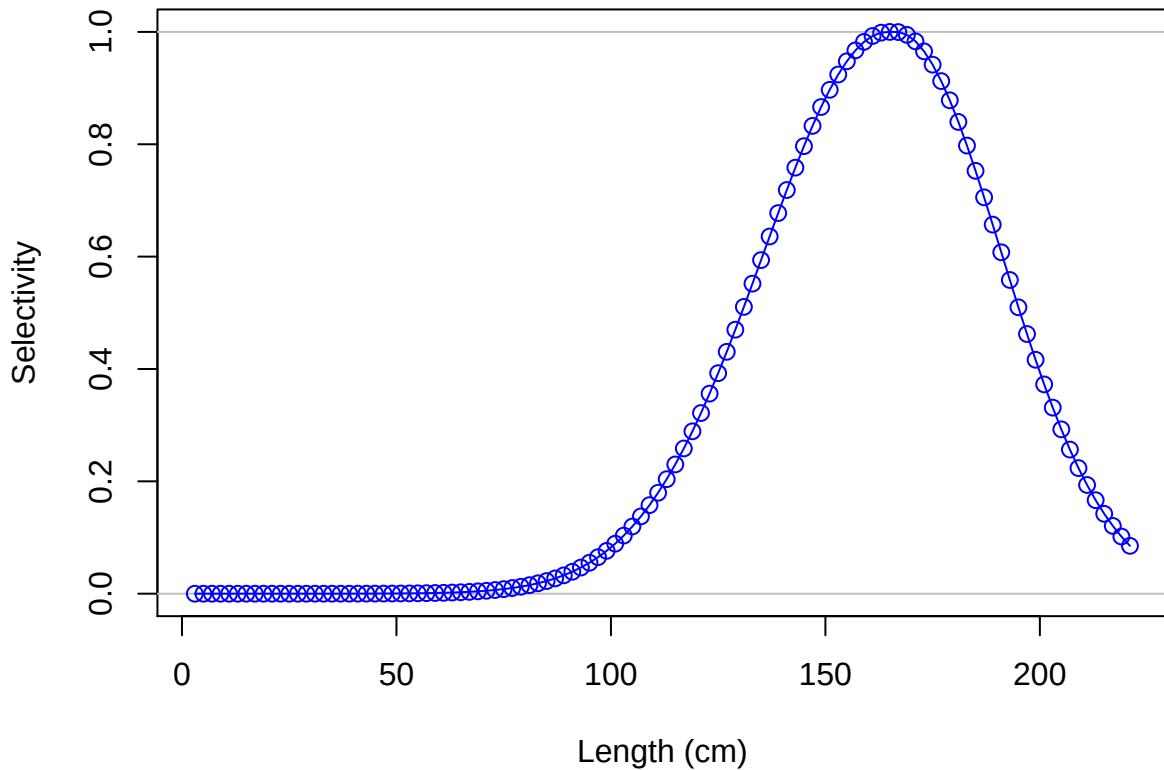
Female ending year selectivity for EPO-LL-survey-early



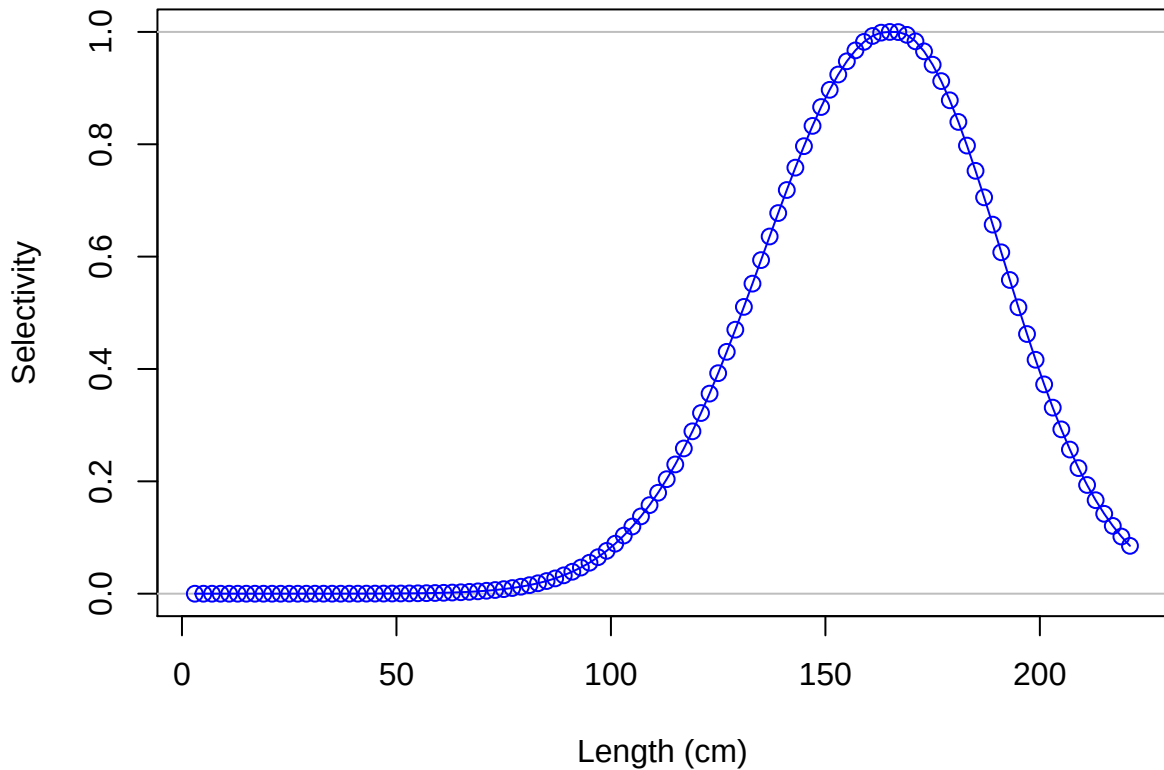
Male ending year selectivity for EPO-LL-survey-early



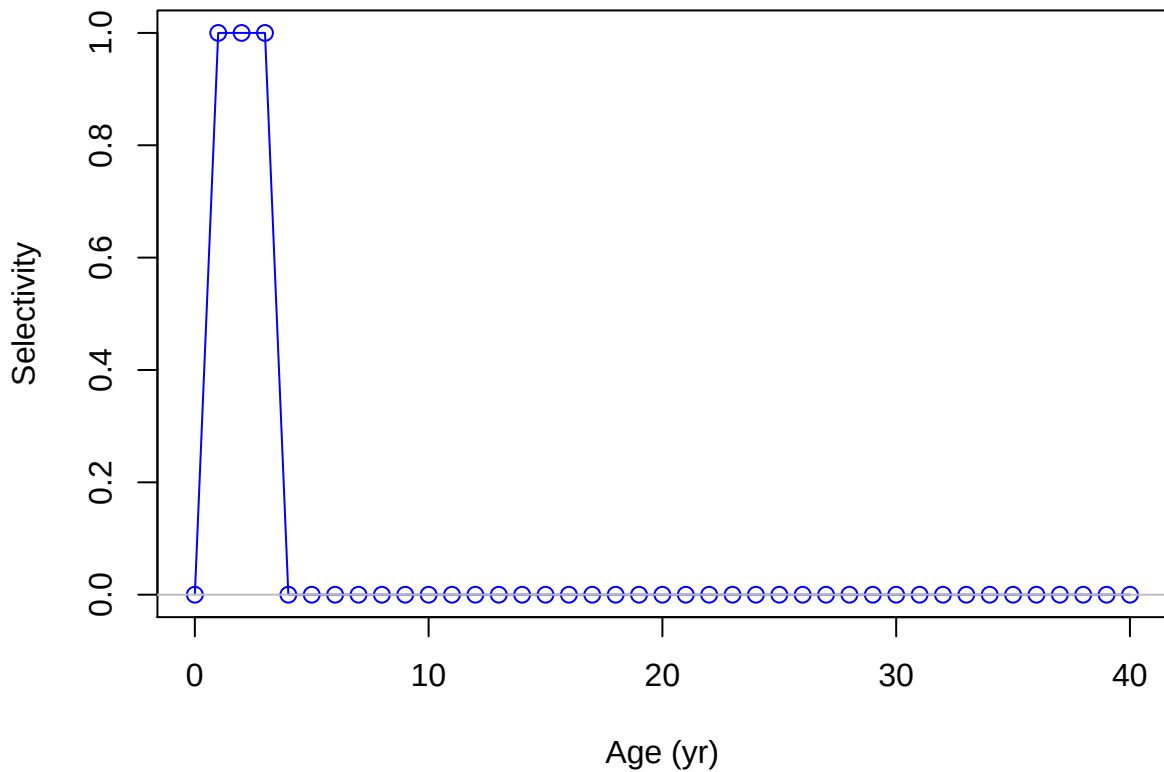
Female ending year selectivity for EPO-LL-survey-late



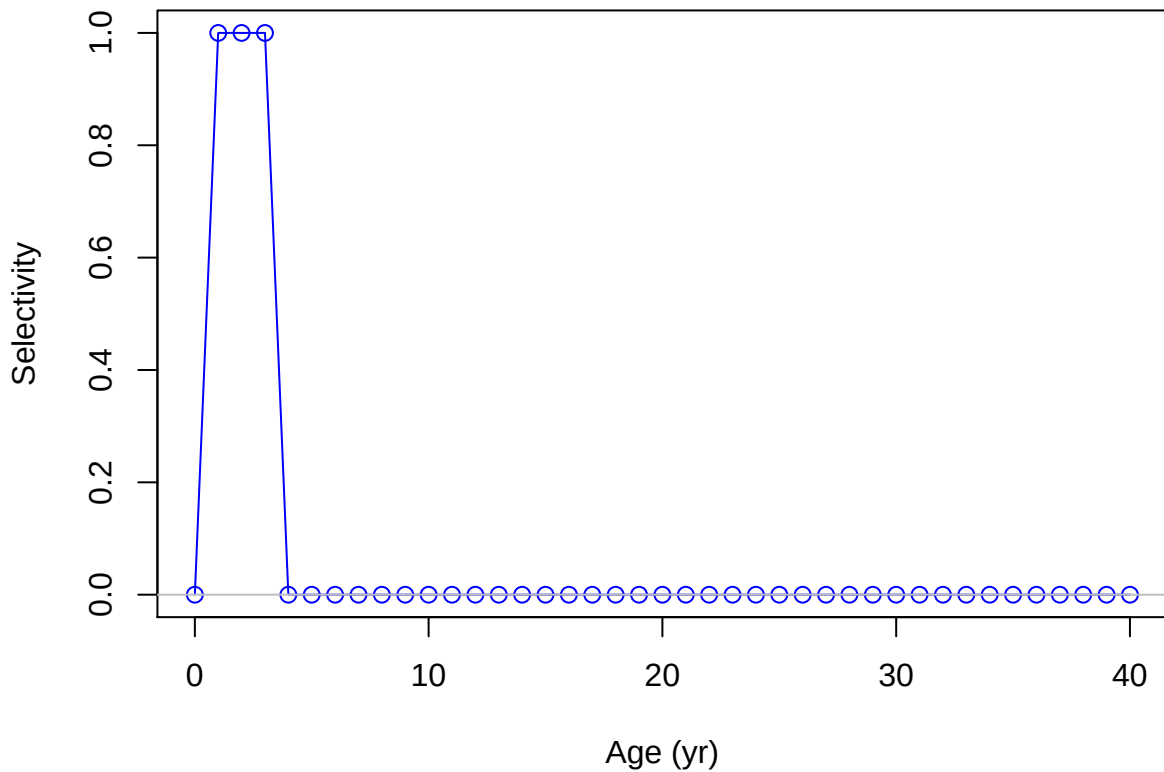
Male ending year selectivity for EPO-LL-survey-late



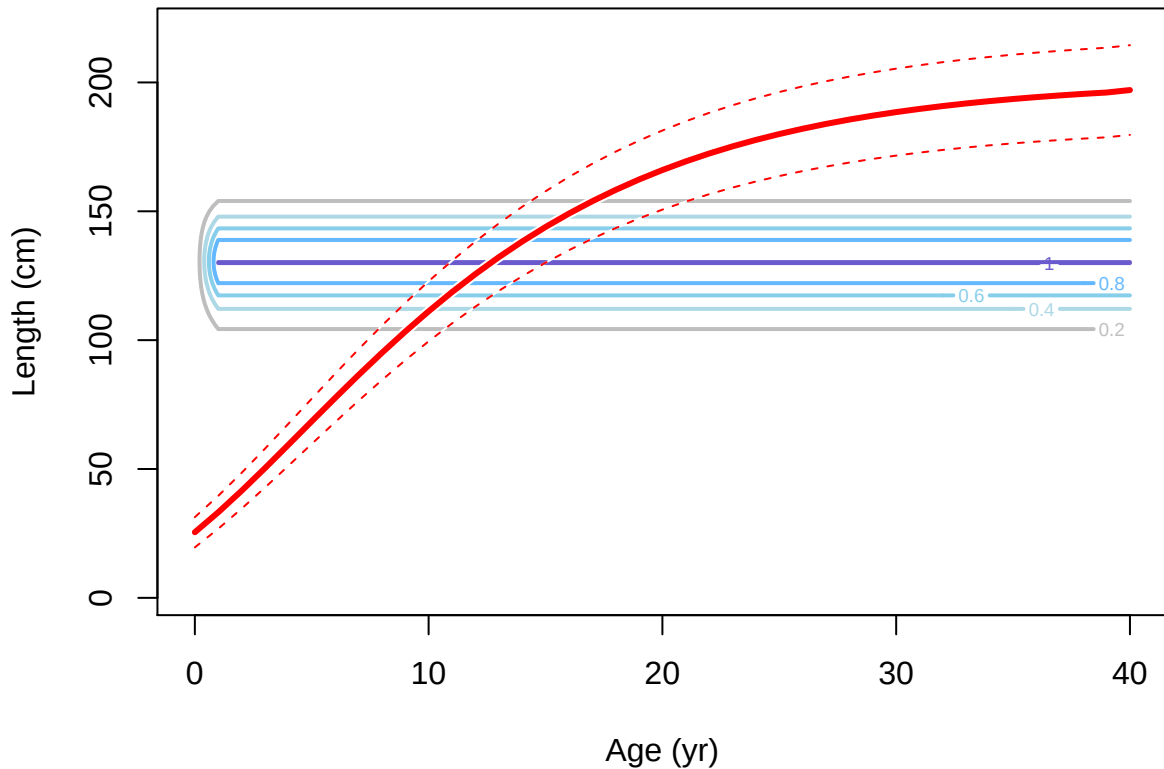
Female ending year selectivity for EPO-OBJ-Disc



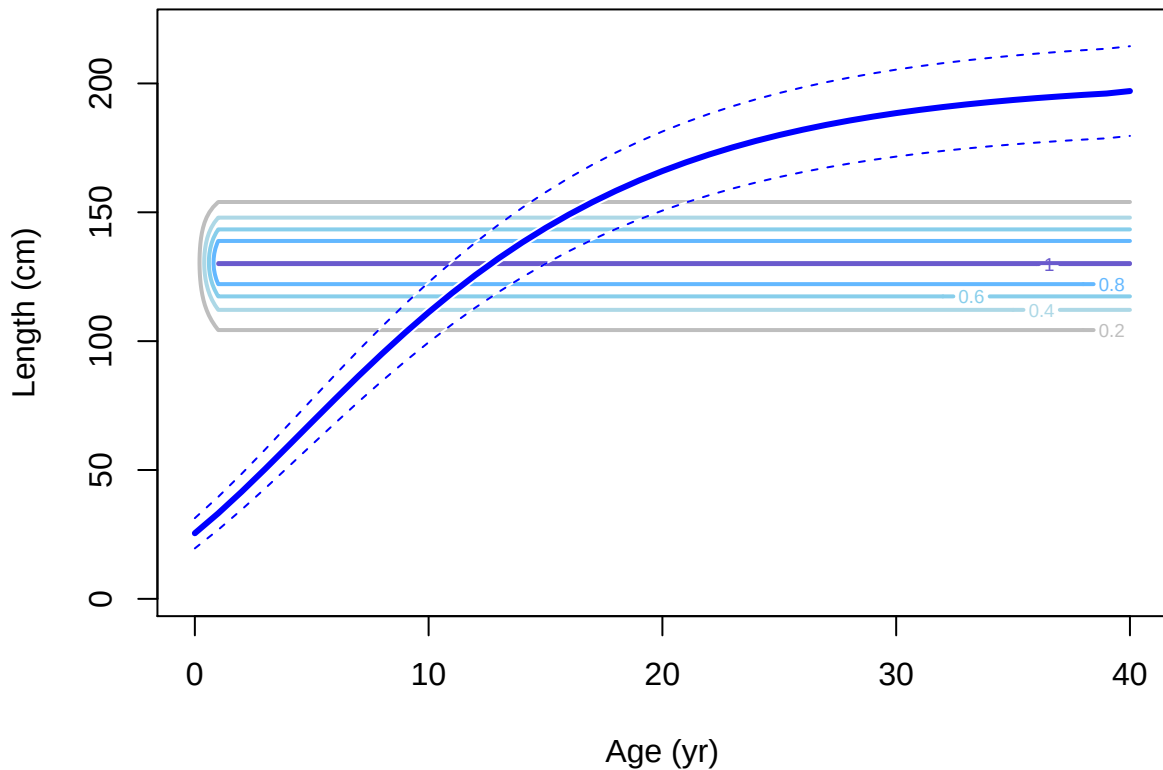
Male ending year selectivity for EPO-OBJ-Disc



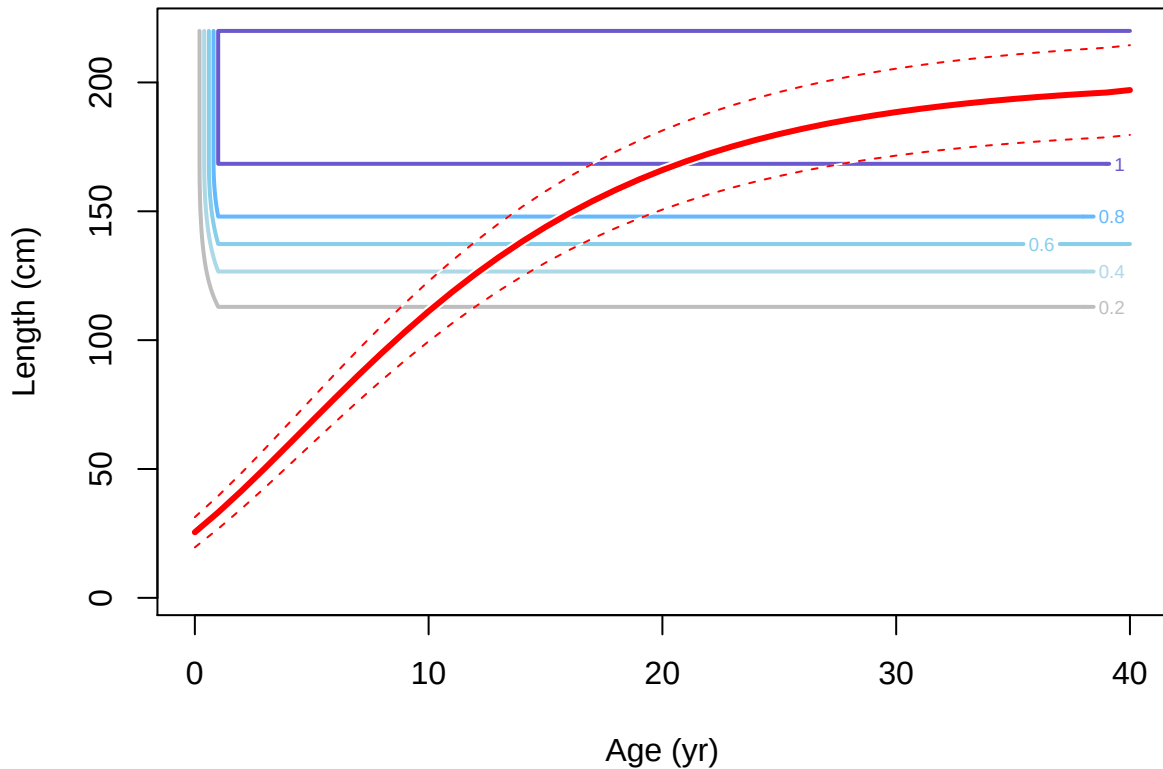
Female ending year selectivity and growth for A1-LL-n



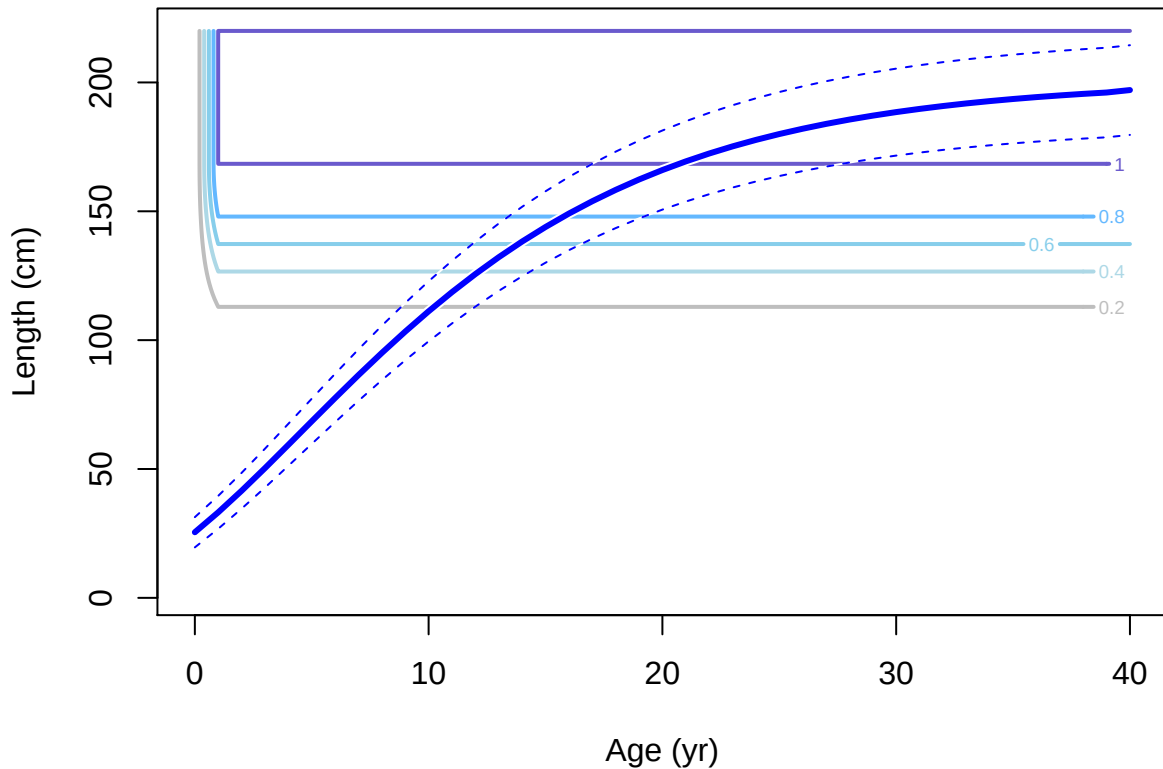
Male ending year selectivity and growth for A1-LL-n



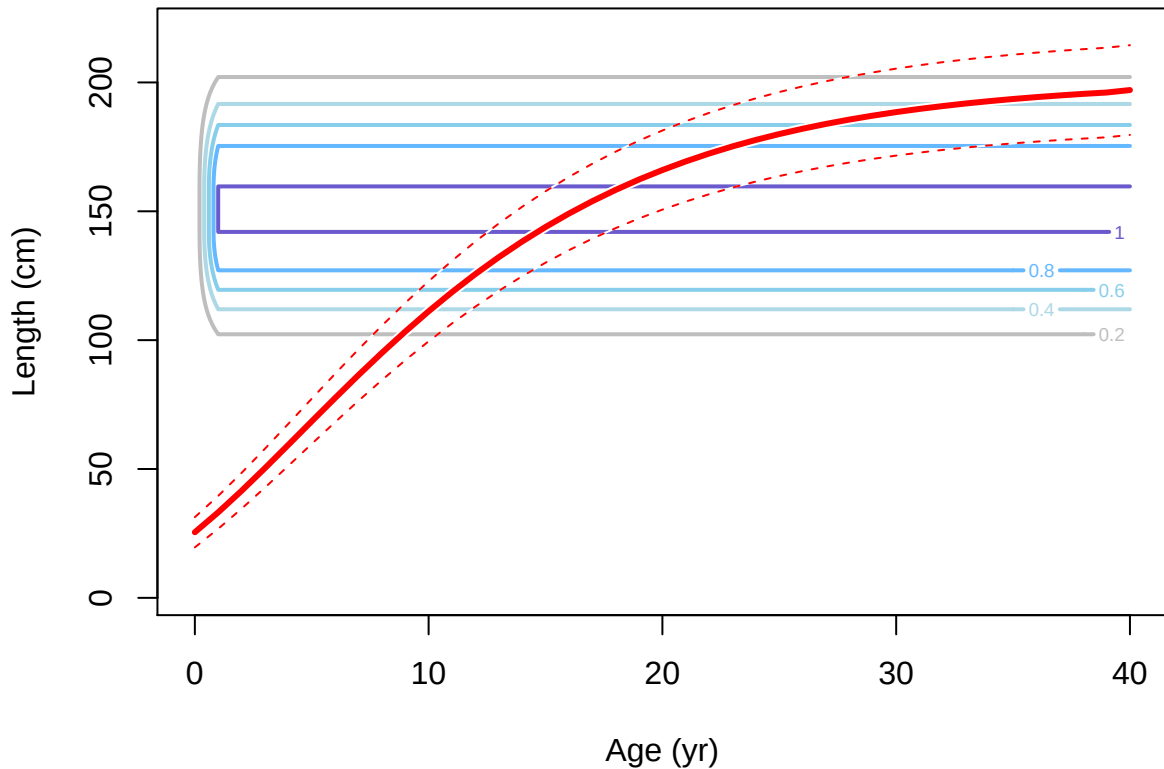
Female ending year selectivity and growth for A2-LL-n



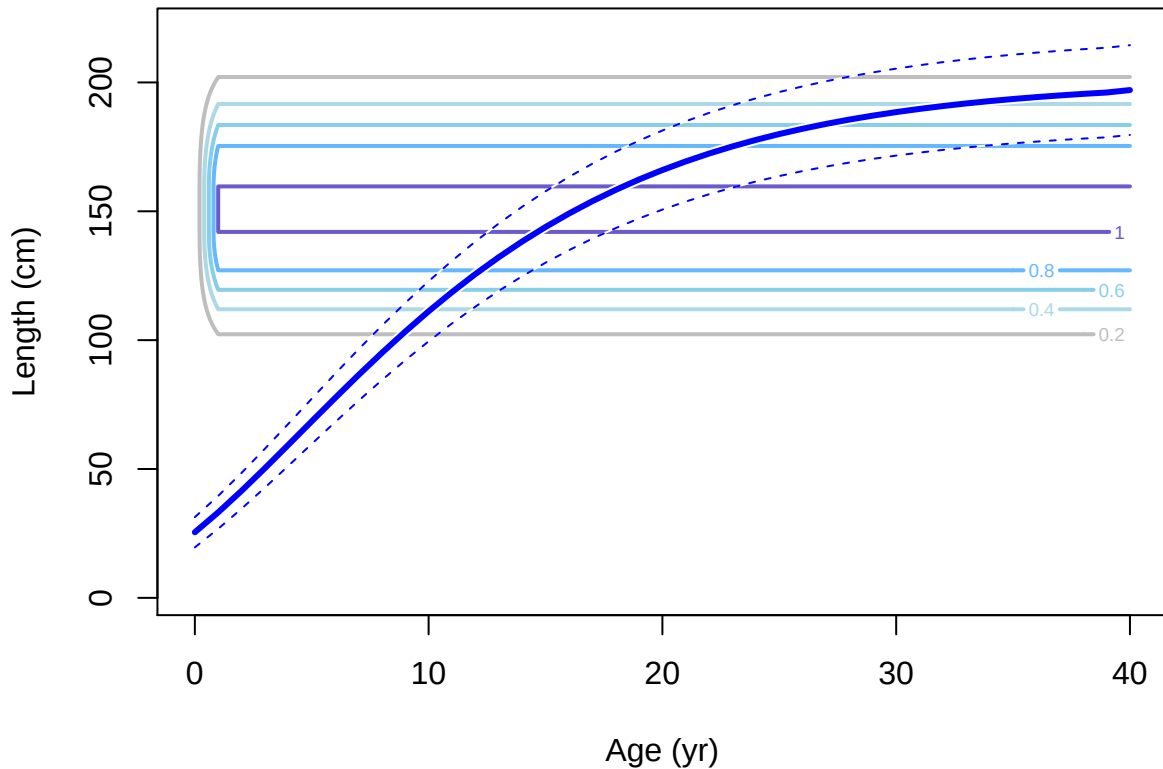
Male ending year selectivity and growth for A2-LL-n



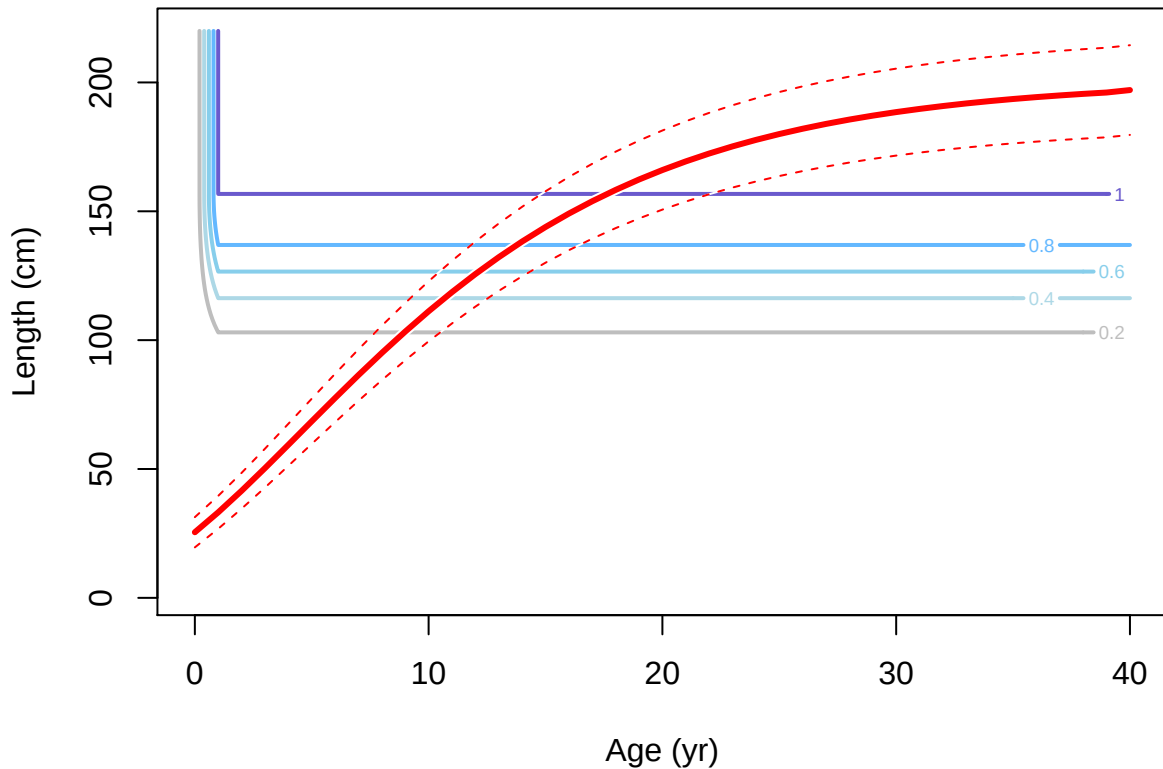
Female ending year selectivity and growth for A3-LL-n



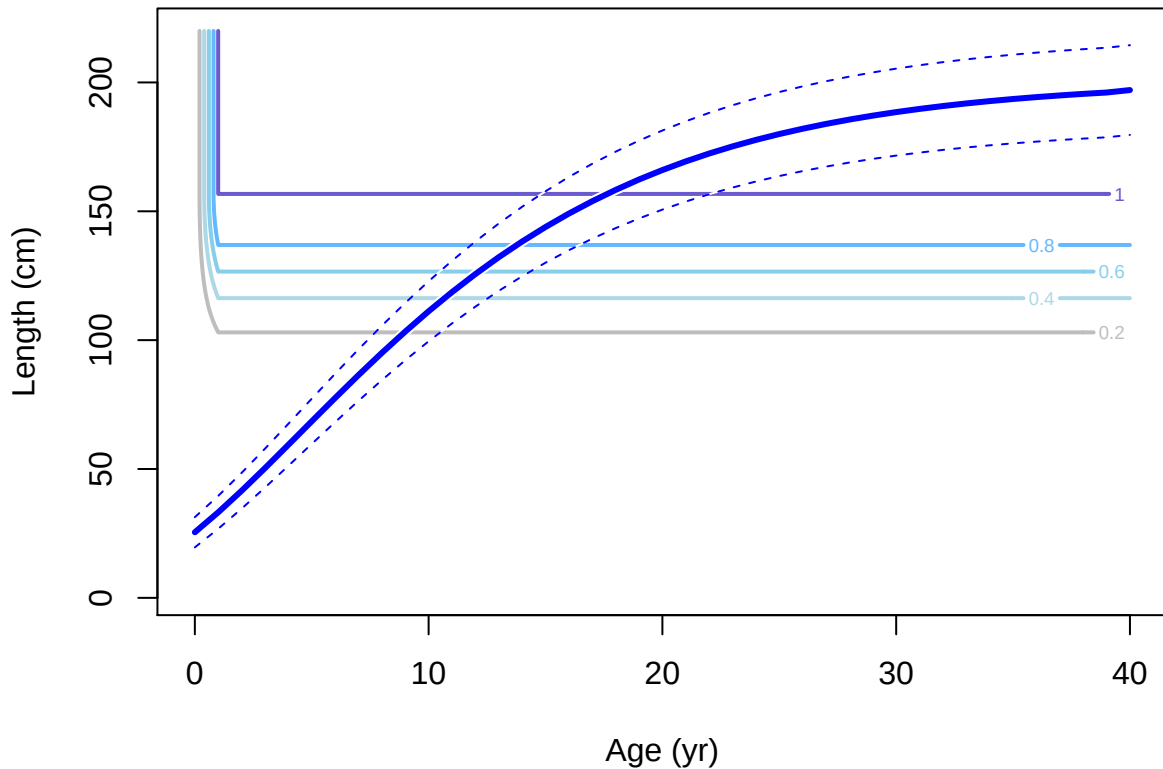
Male ending year selectivity and growth for A3-LL-n



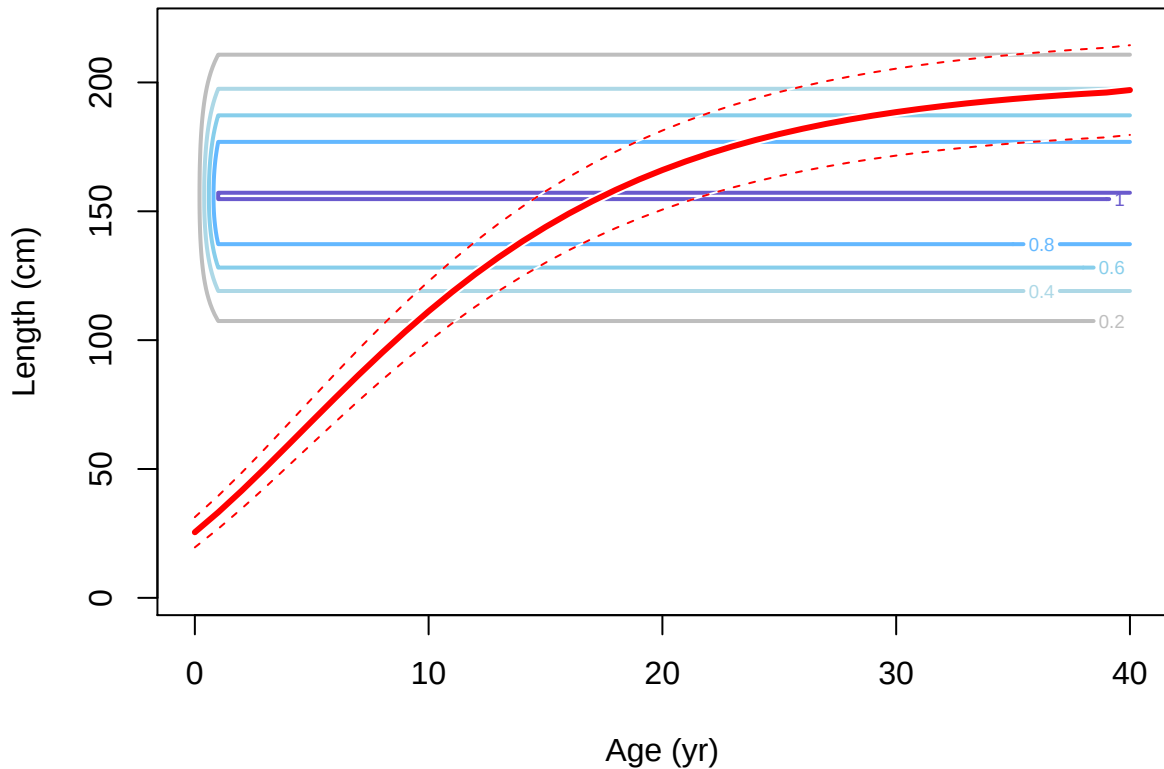
Female ending year selectivity and growth for A4-LL-n



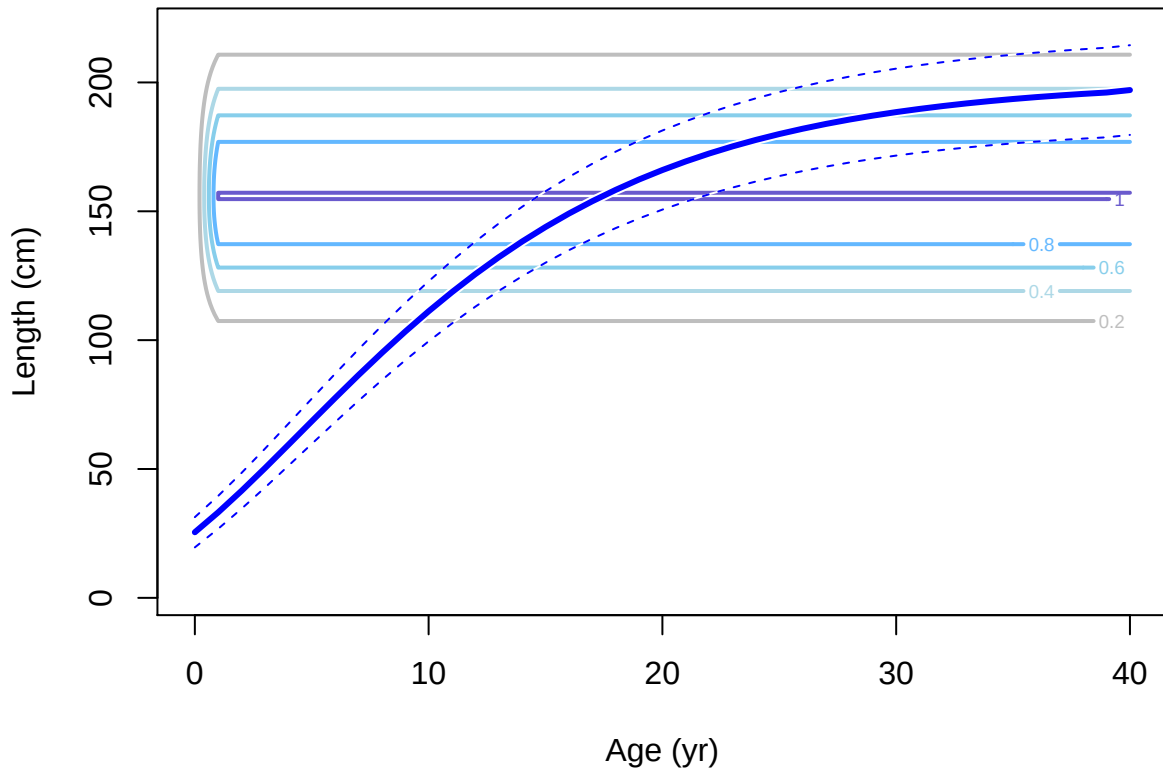
Male ending year selectivity and growth for A4-LL-n



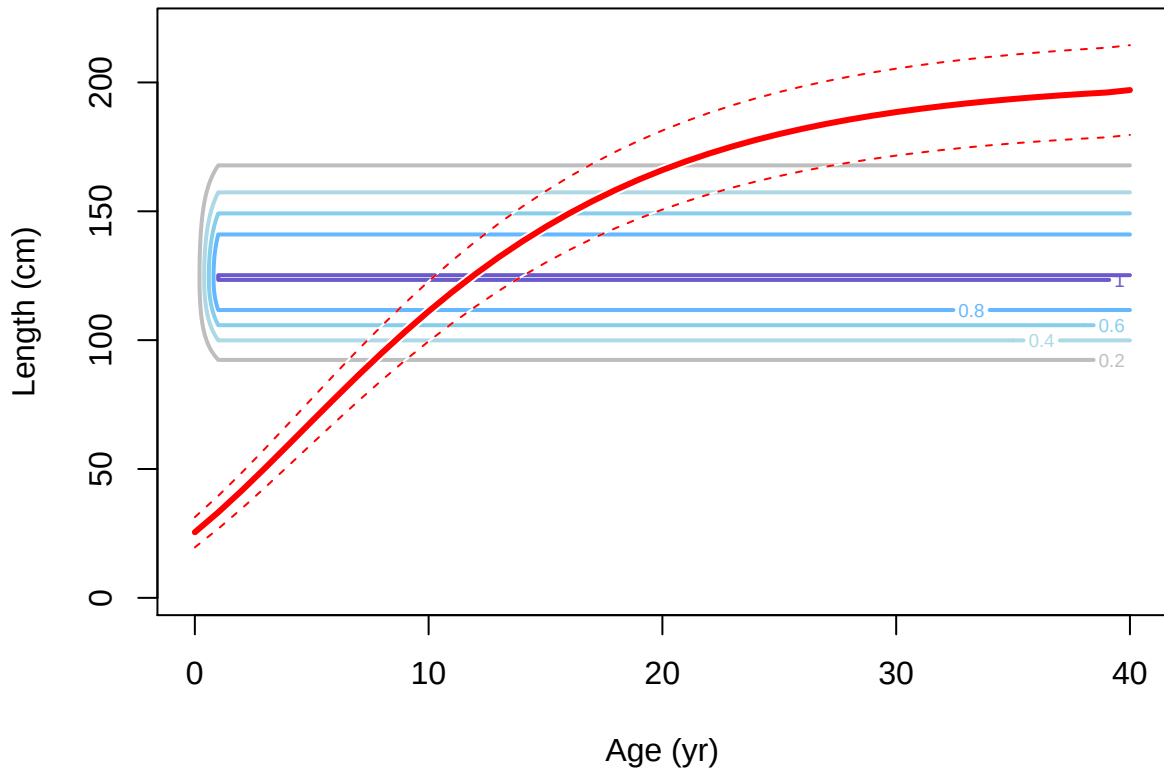
Female ending year selectivity and growth for A5-LL-n



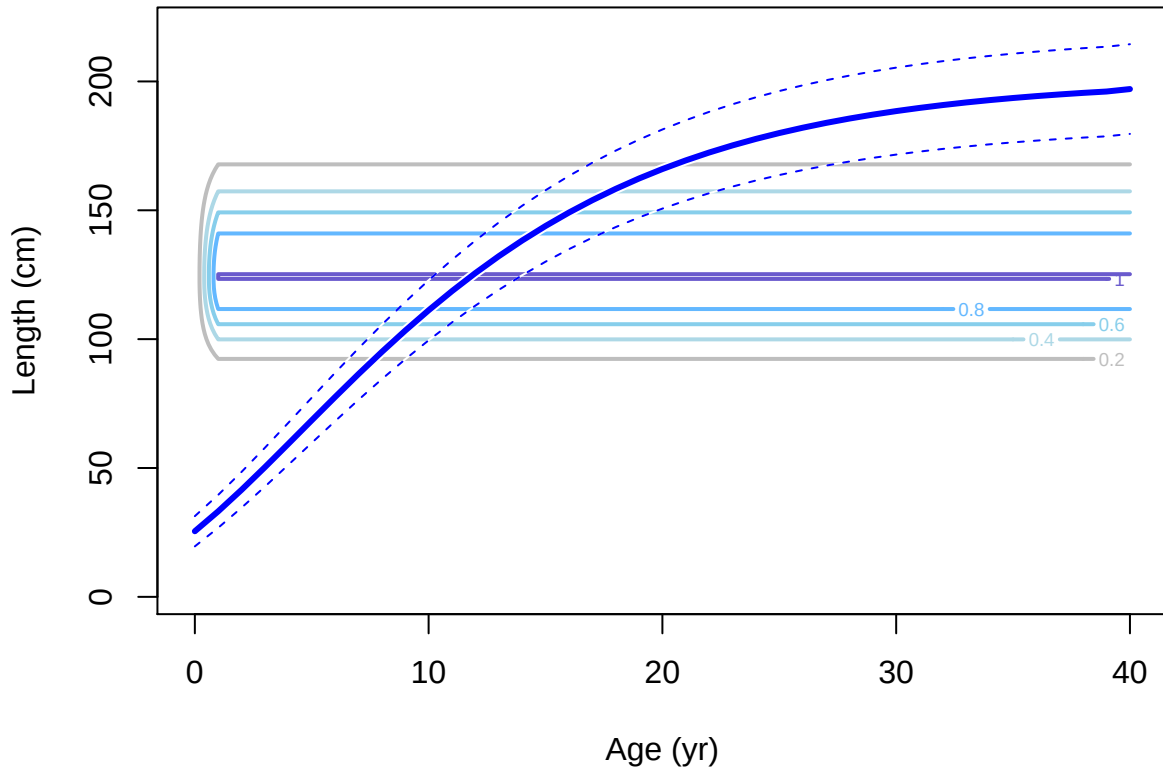
Male ending year selectivity and growth for A5-LL-n



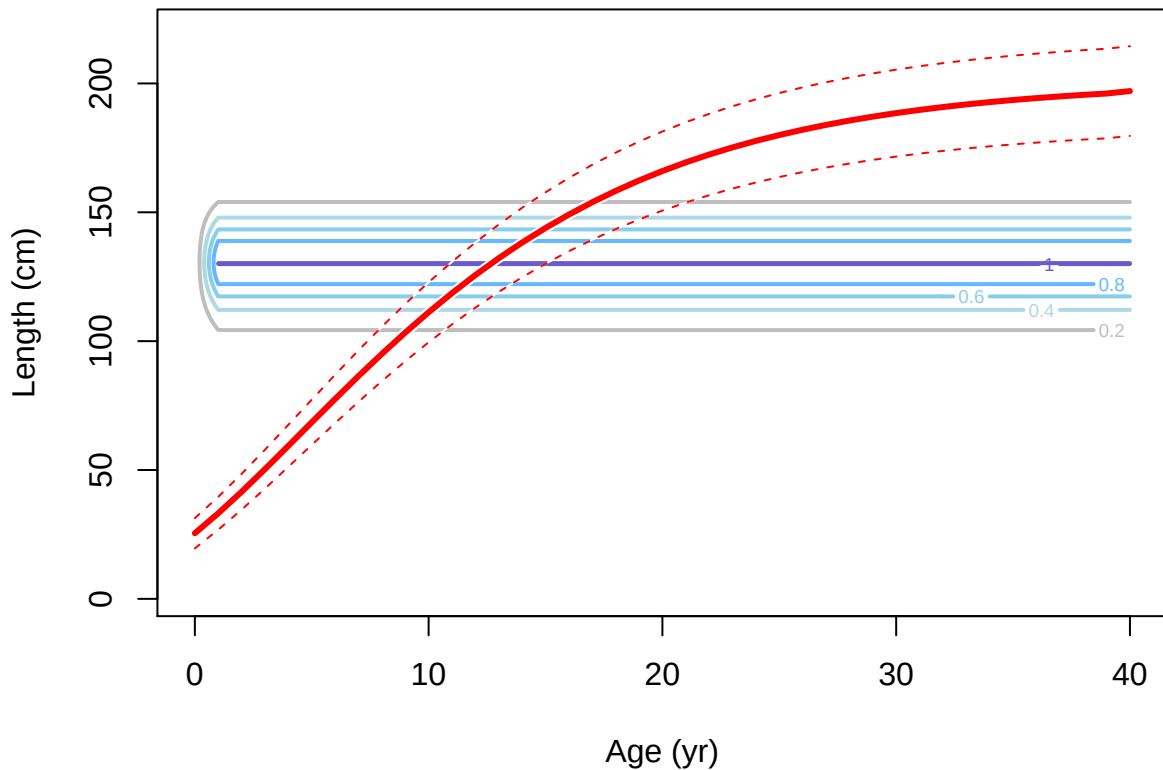
Female ending year selectivity and growth for A6-LL-n



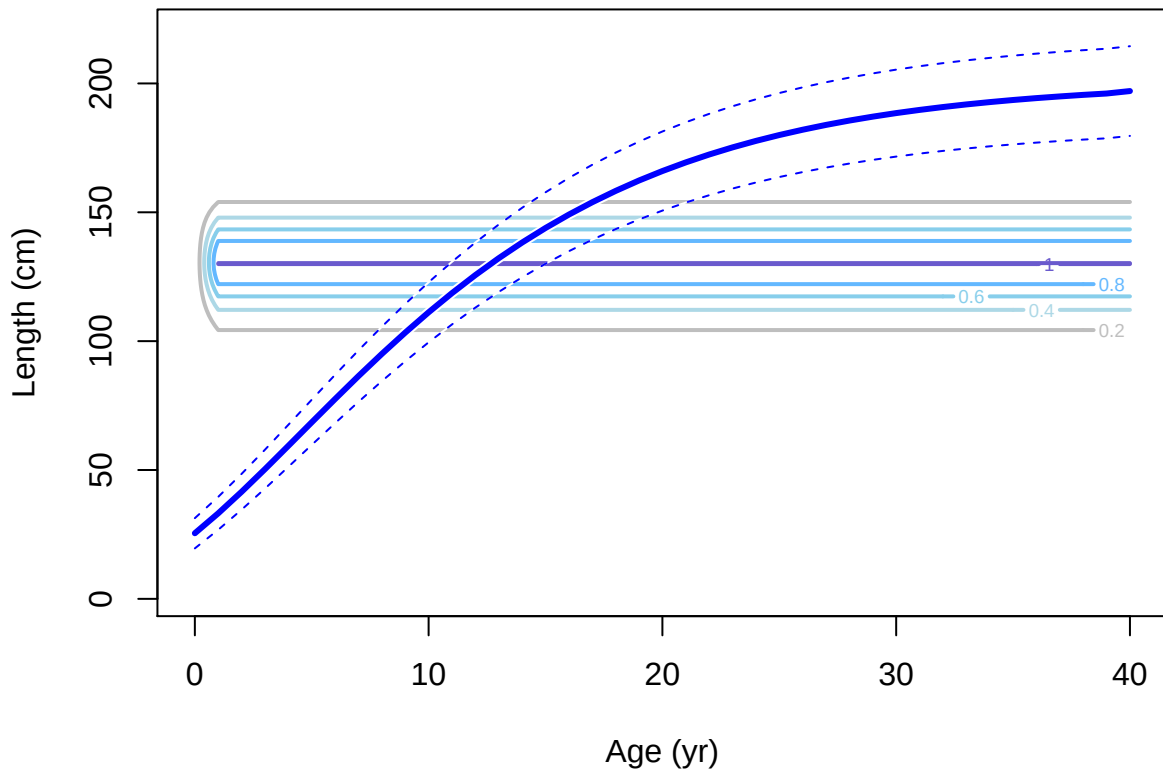
Male ending year selectivity and growth for A6-LL-n



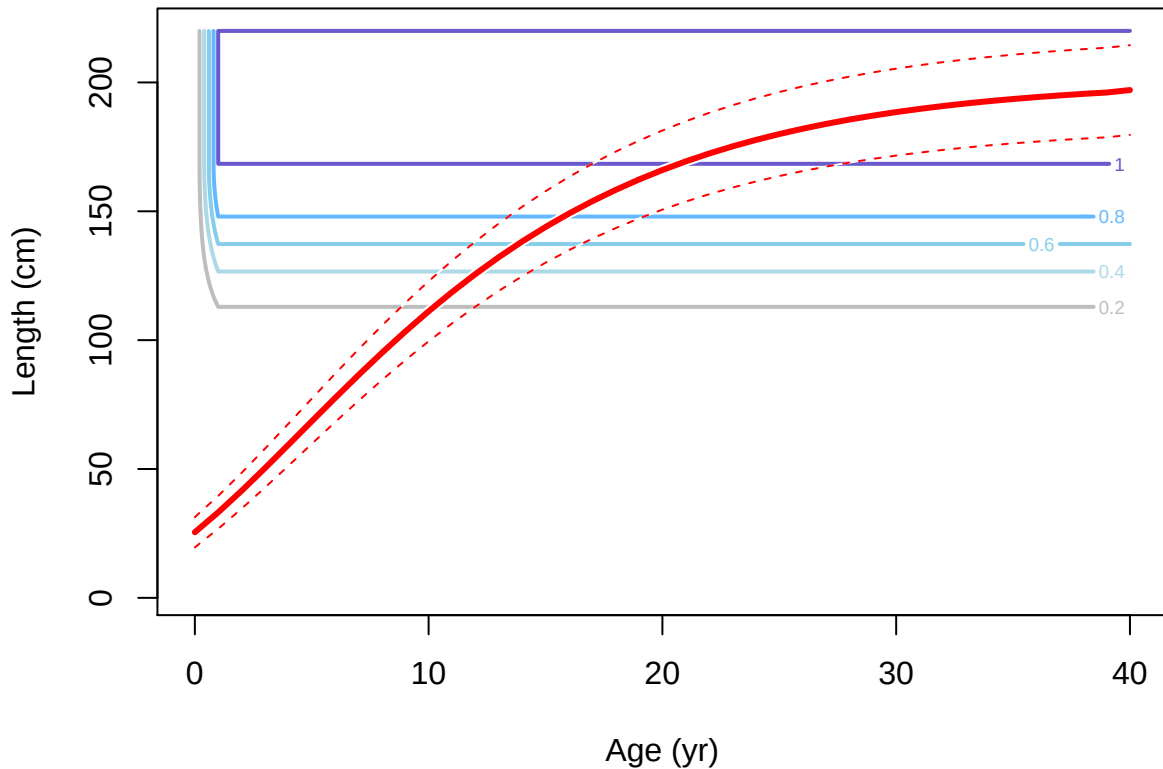
Female ending year selectivity and growth for A1-LL-w



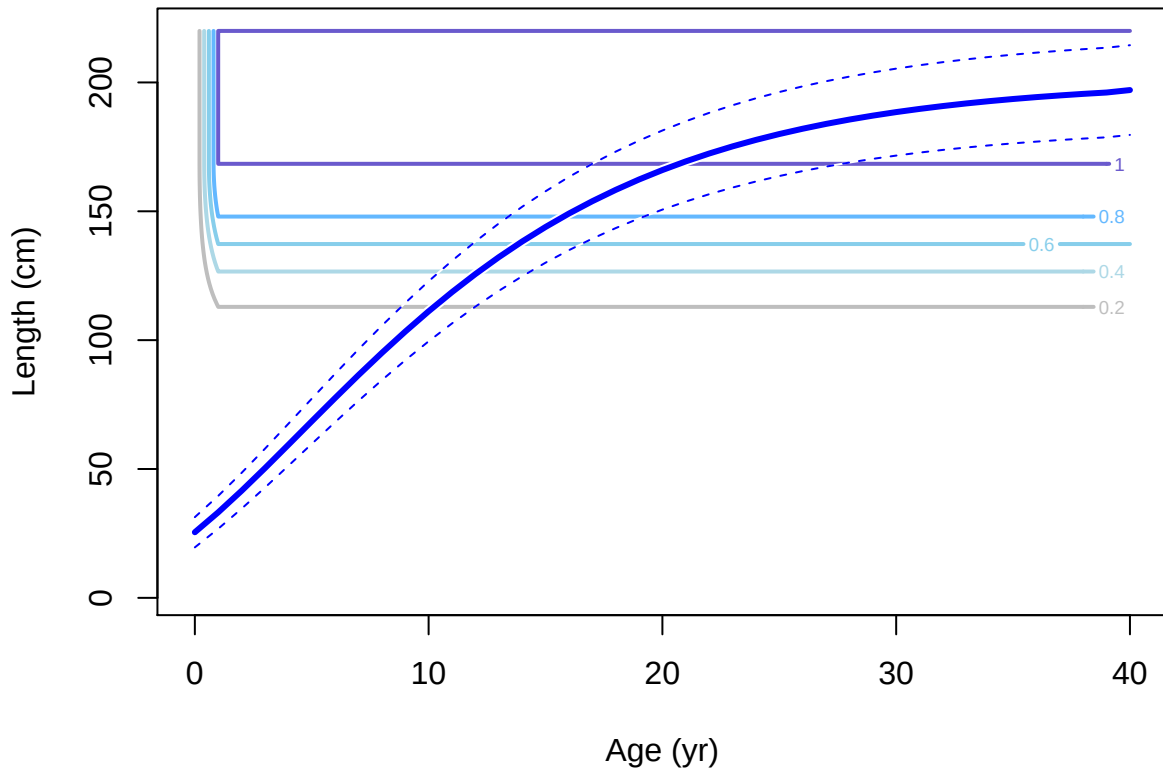
Male ending year selectivity and growth for A1-LL-w



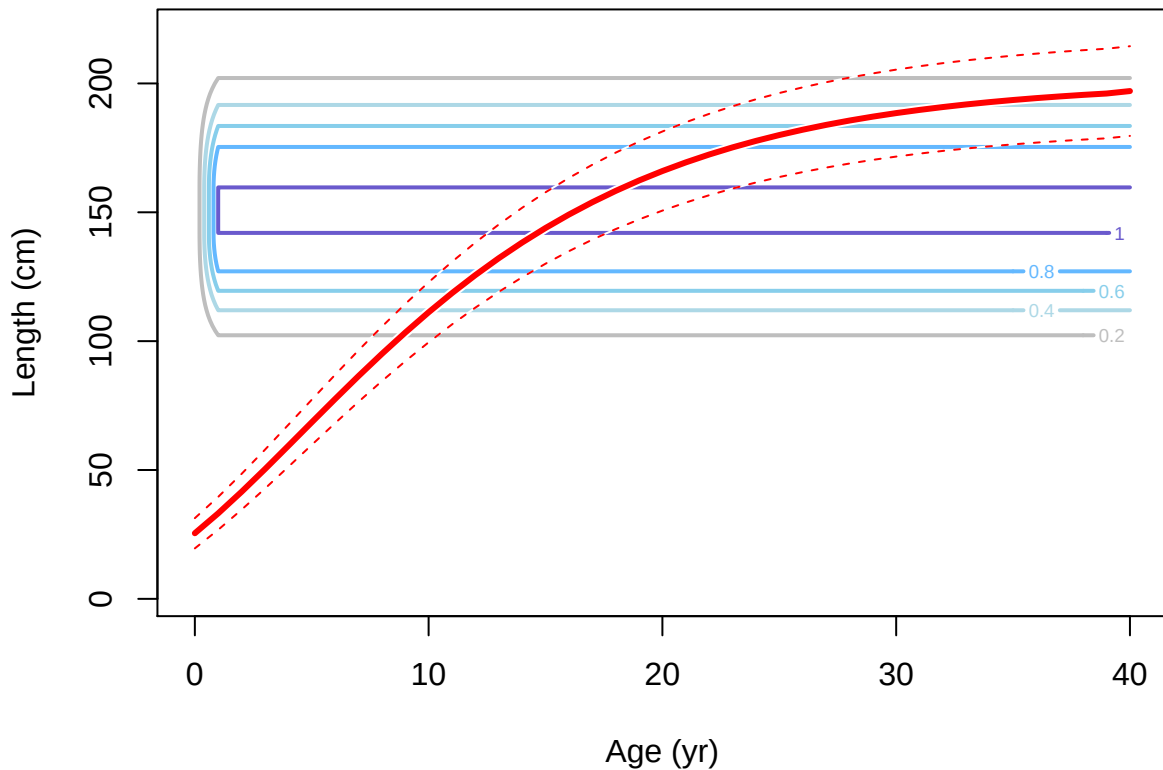
Female ending year selectivity and growth for A2-LL-w



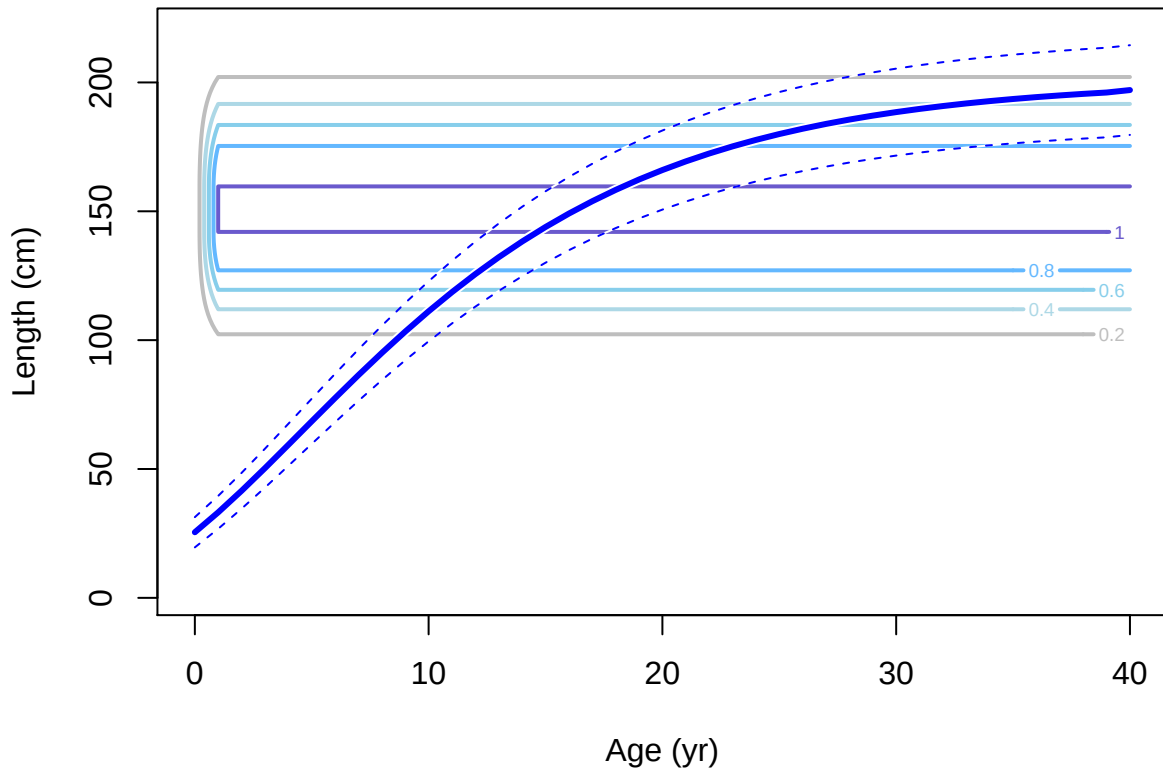
Male ending year selectivity and growth for A2-LL-w



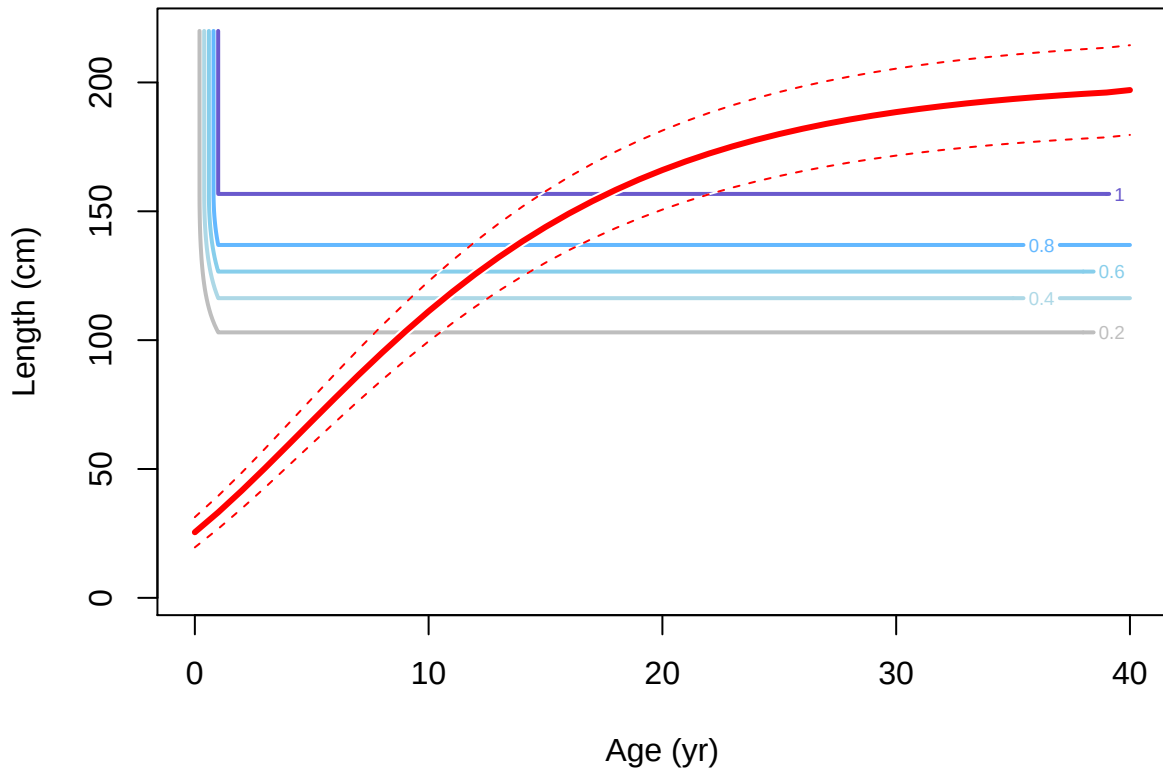
Female ending year selectivity and growth for A3-LL-w



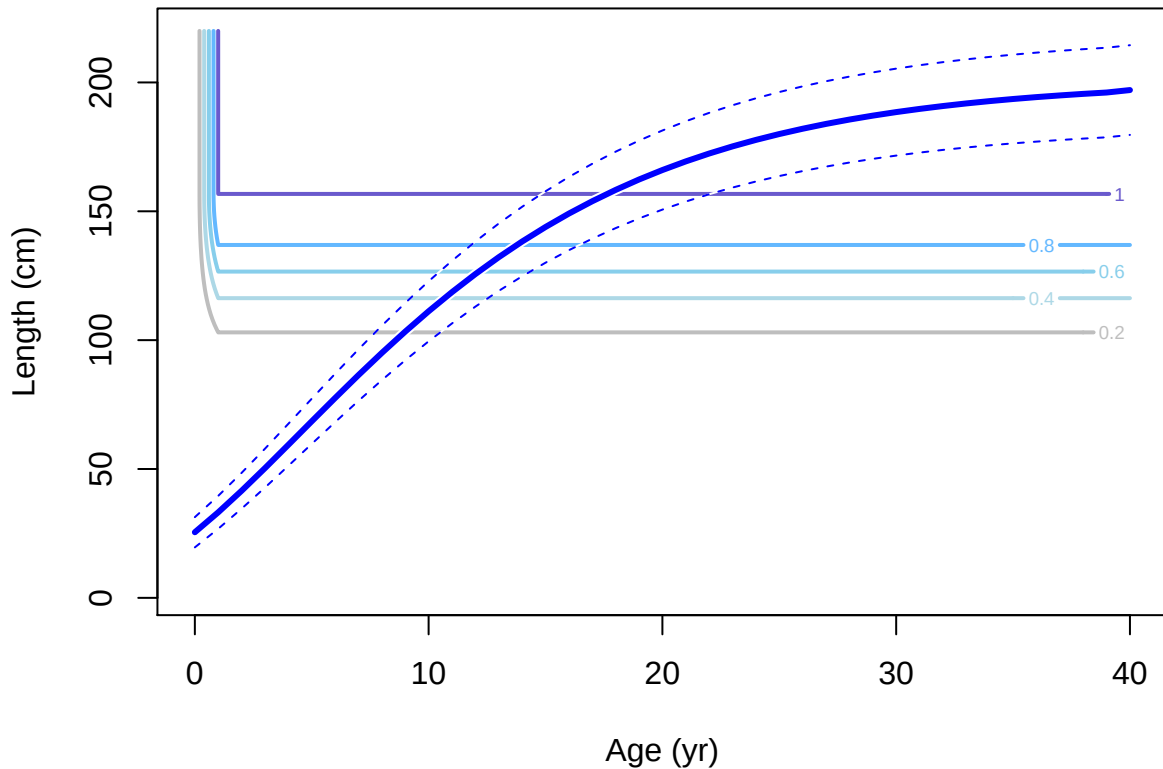
Male ending year selectivity and growth for A3-LL-w



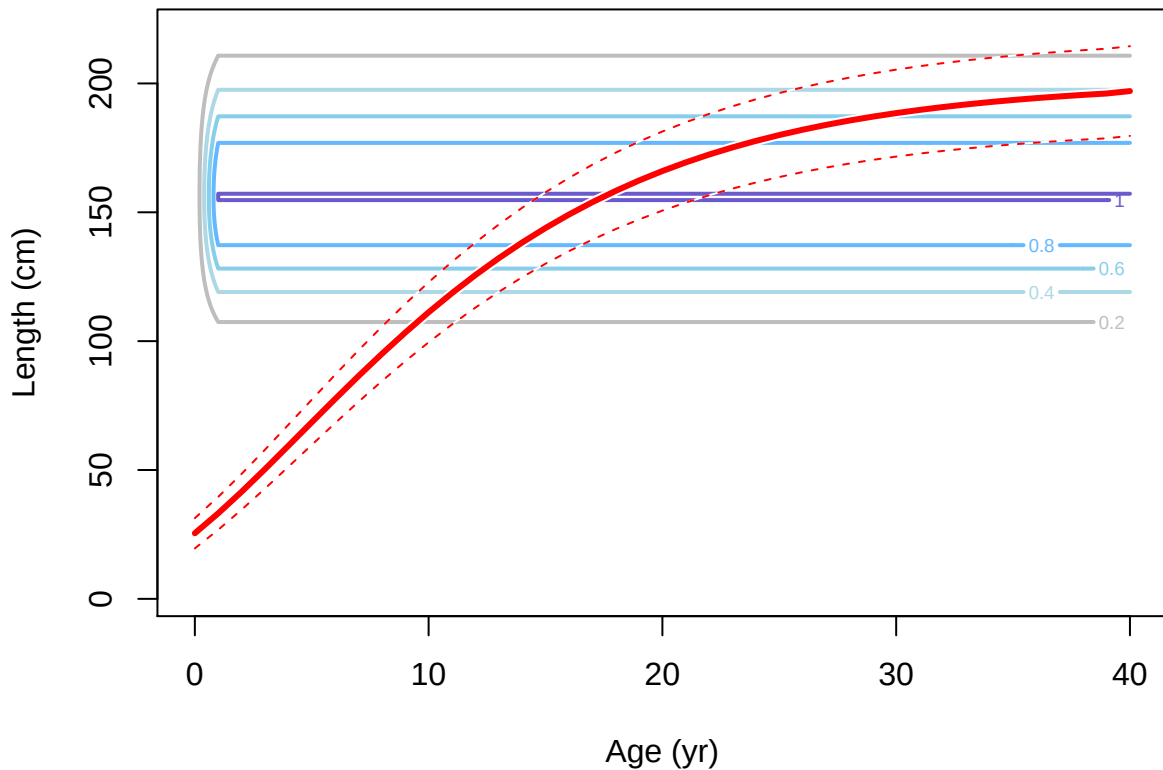
Female ending year selectivity and growth for A4-LL-w



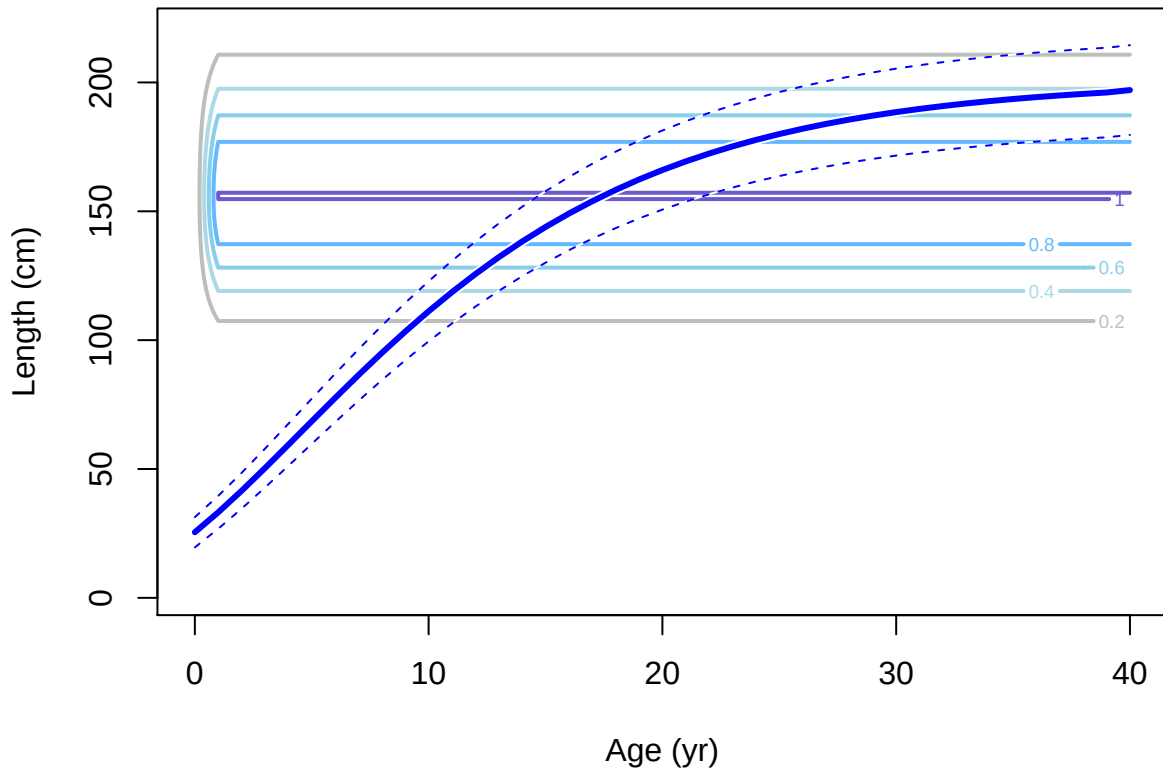
Male ending year selectivity and growth for A4-LL-w



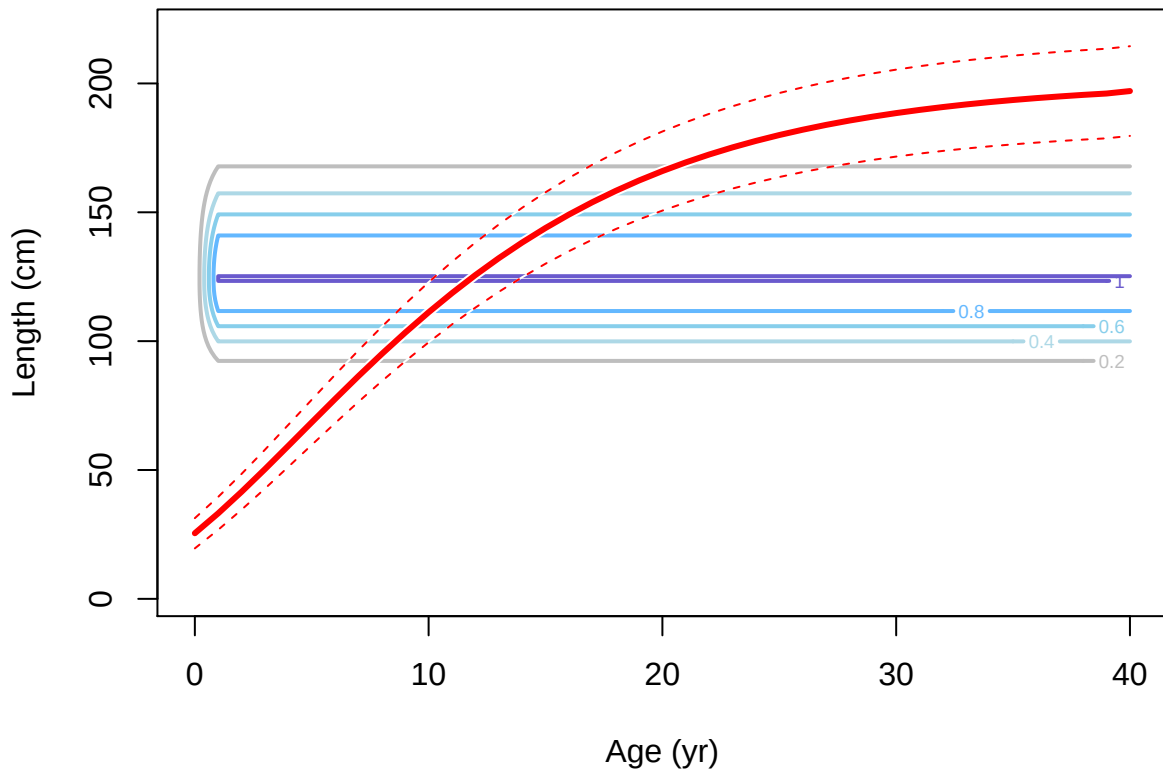
Female ending year selectivity and growth for A5-LL-w



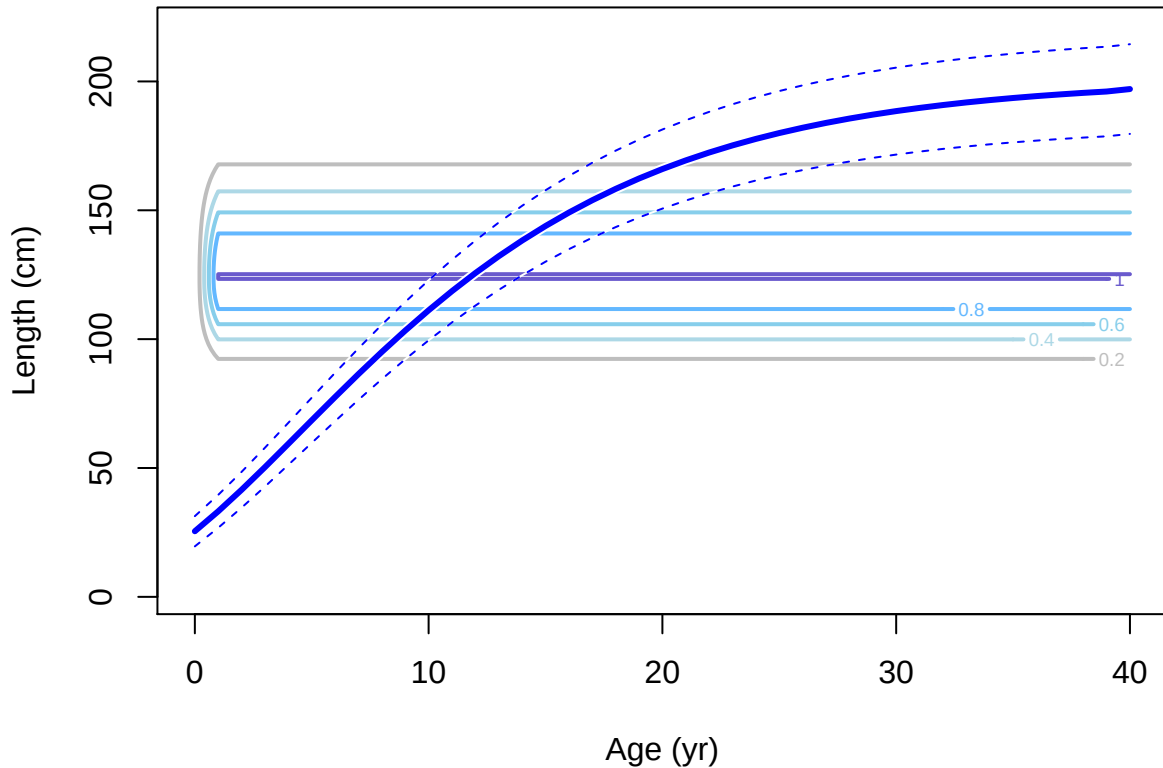
Male ending year selectivity and growth for A5-LL-w



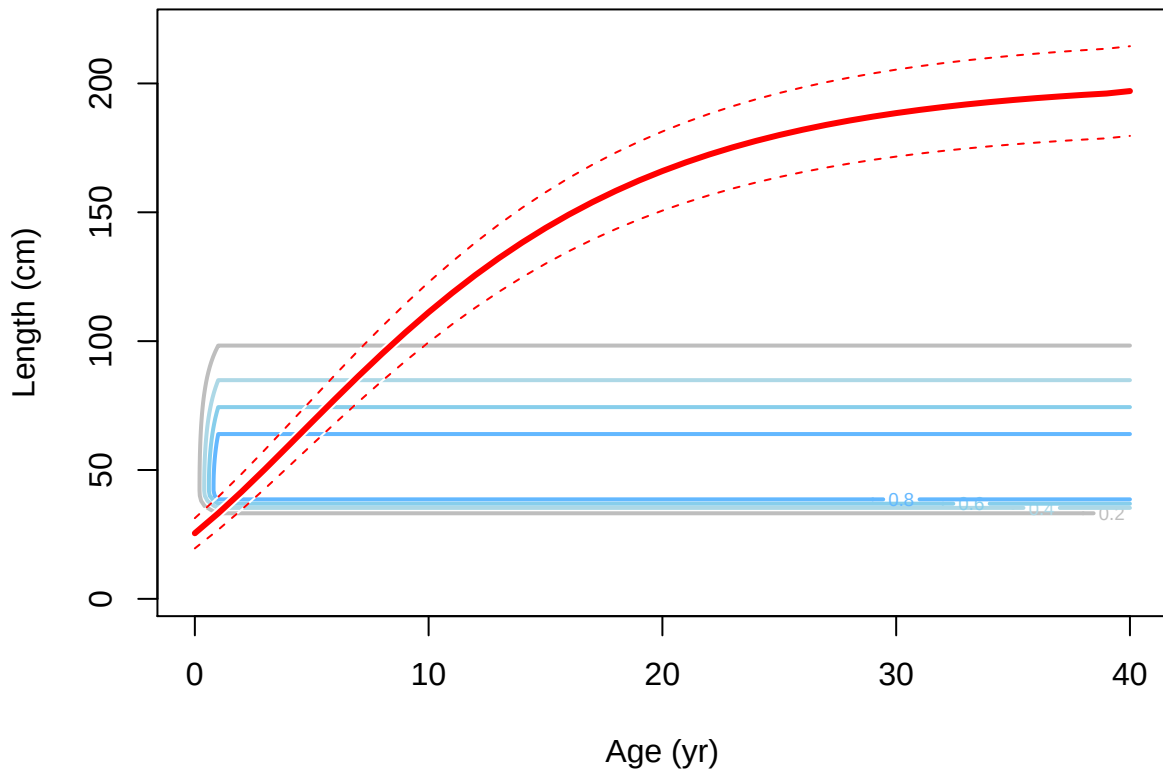
Female ending year selectivity and growth for A6-LL-w



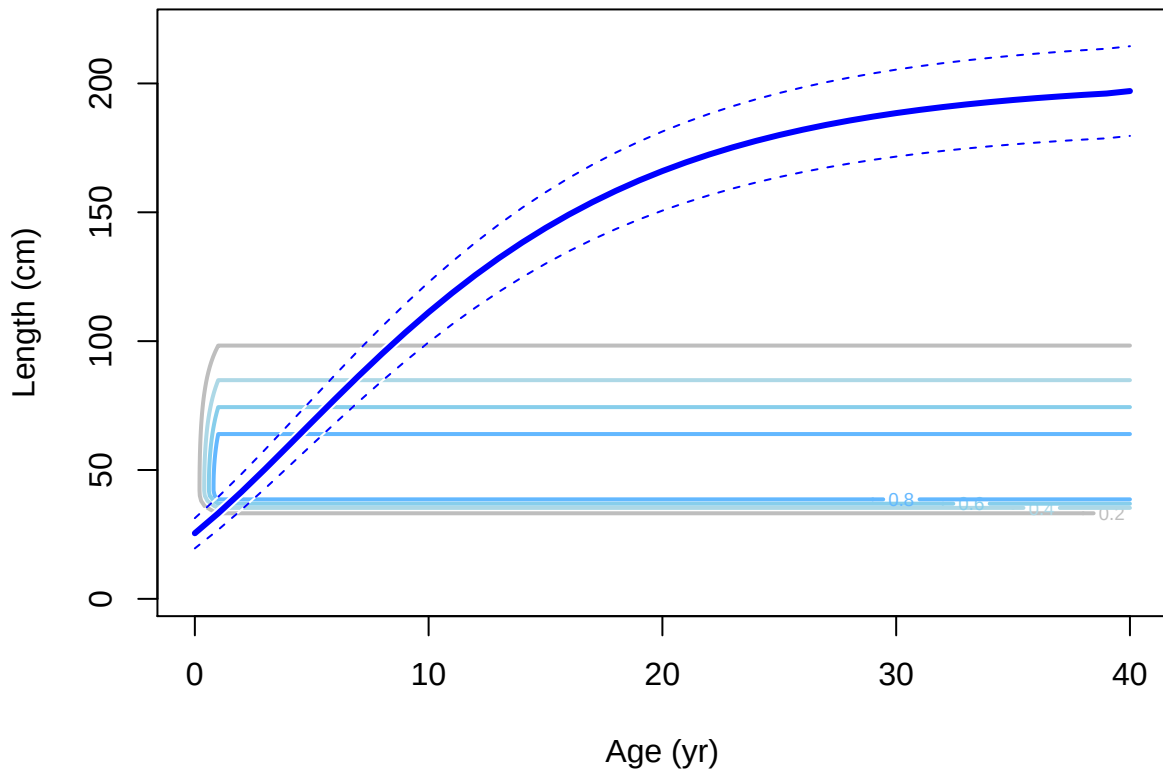
Male ending year selectivity and growth for A6-LL-w



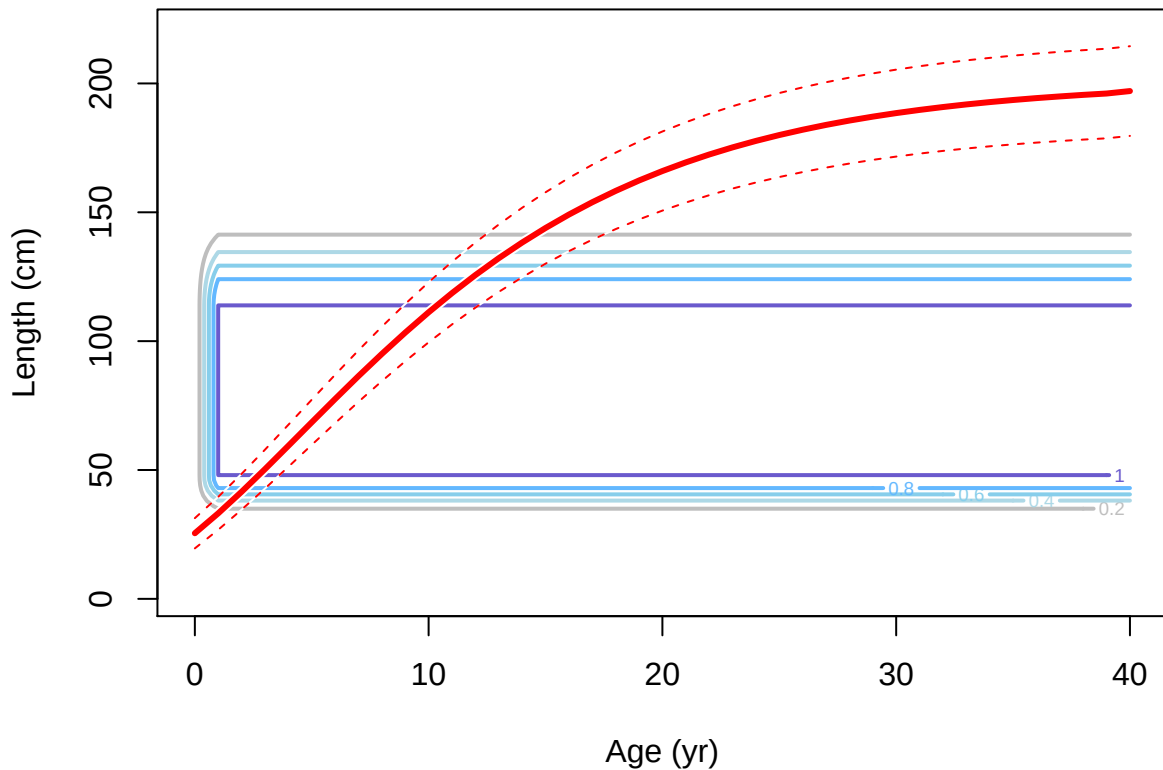
Female ending year selectivity and growth for A2-OBJ



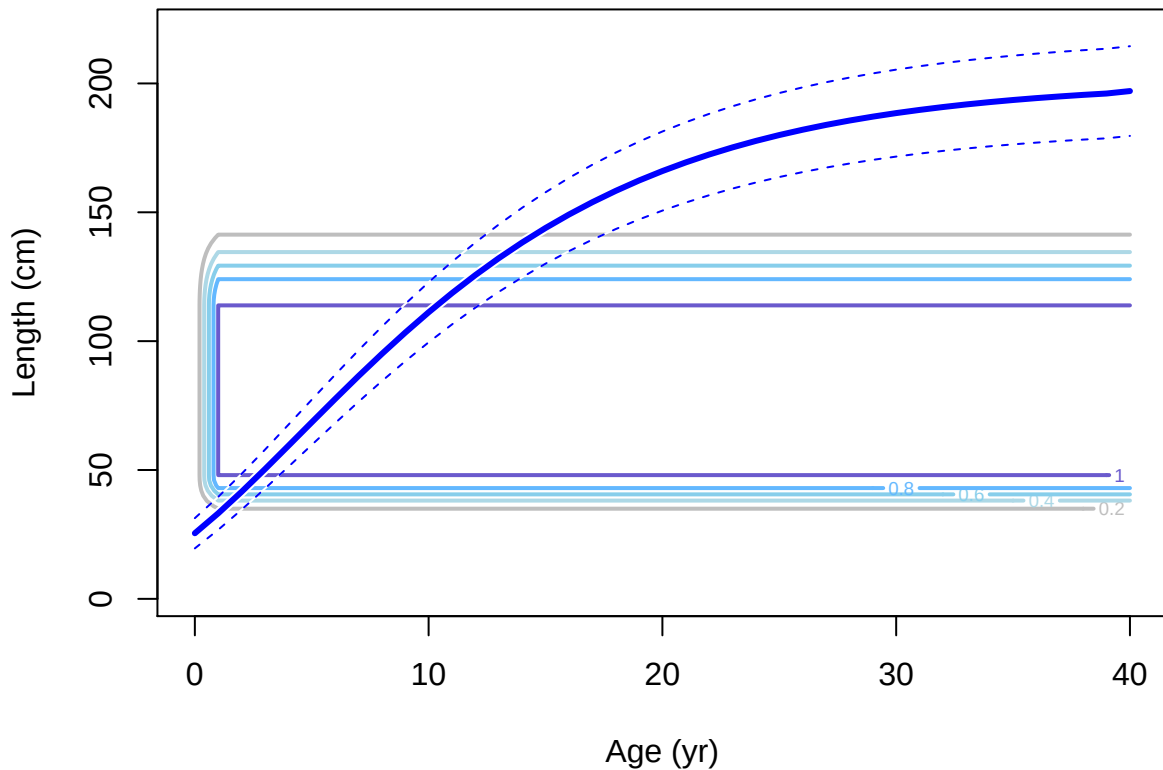
Male ending year selectivity and growth for A2-OBJ



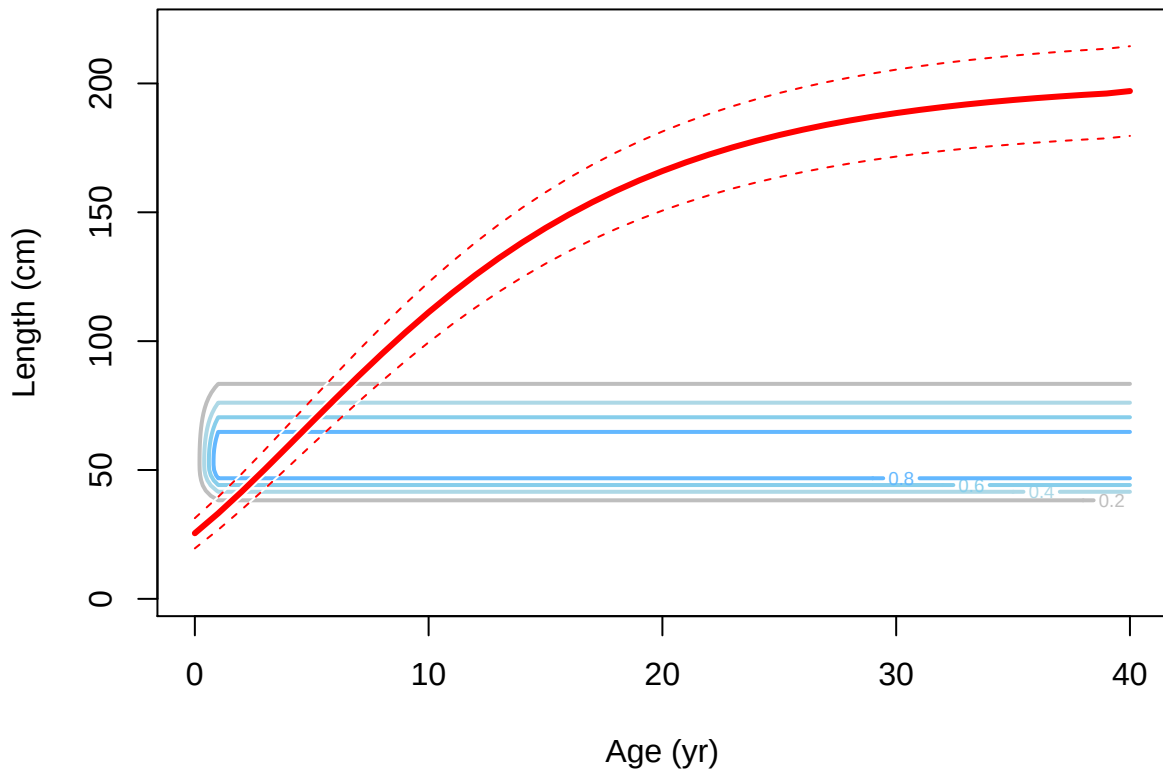
Female ending year selectivity and growth for A3-OBJ



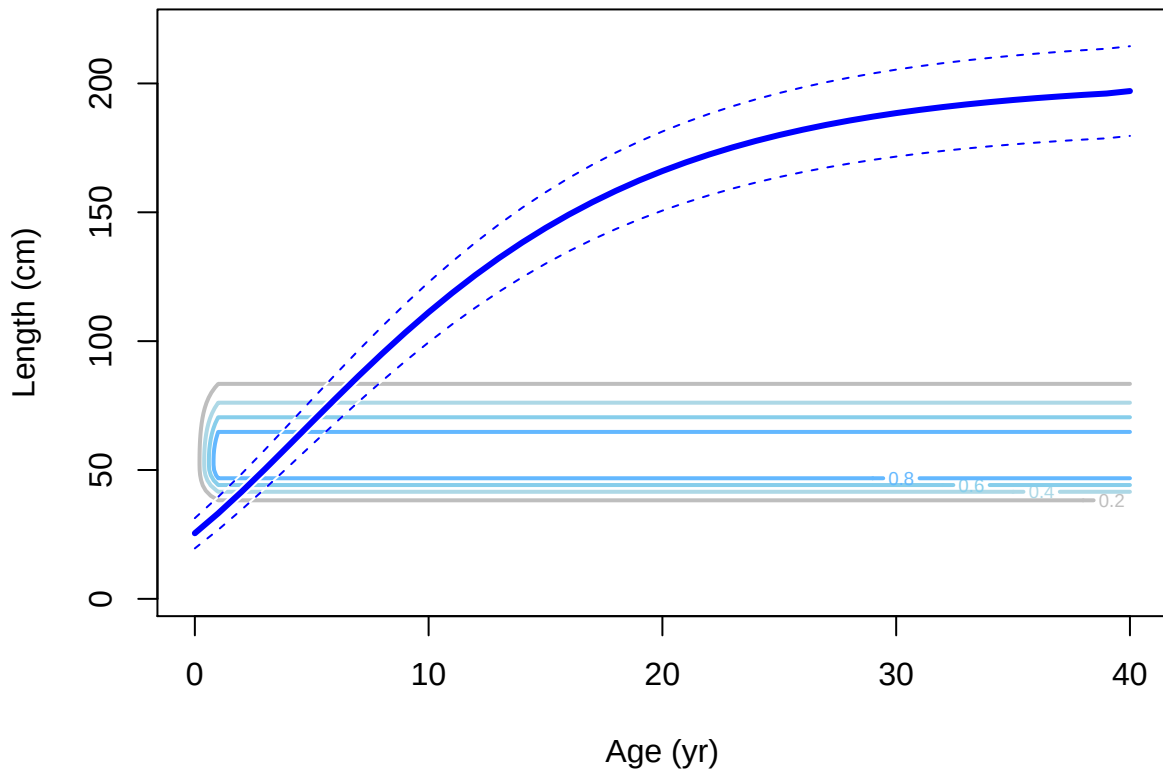
Male ending year selectivity and growth for A3-OBJ



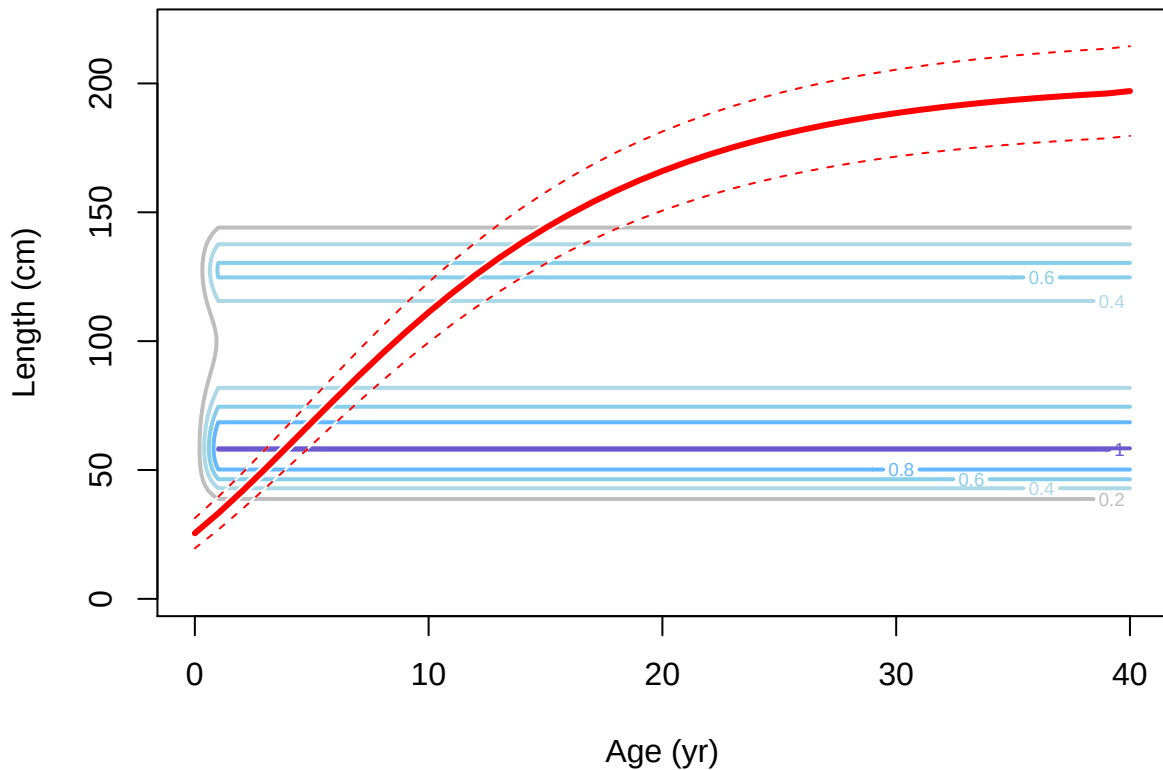
Female ending year selectivity and growth for A4-OBJ



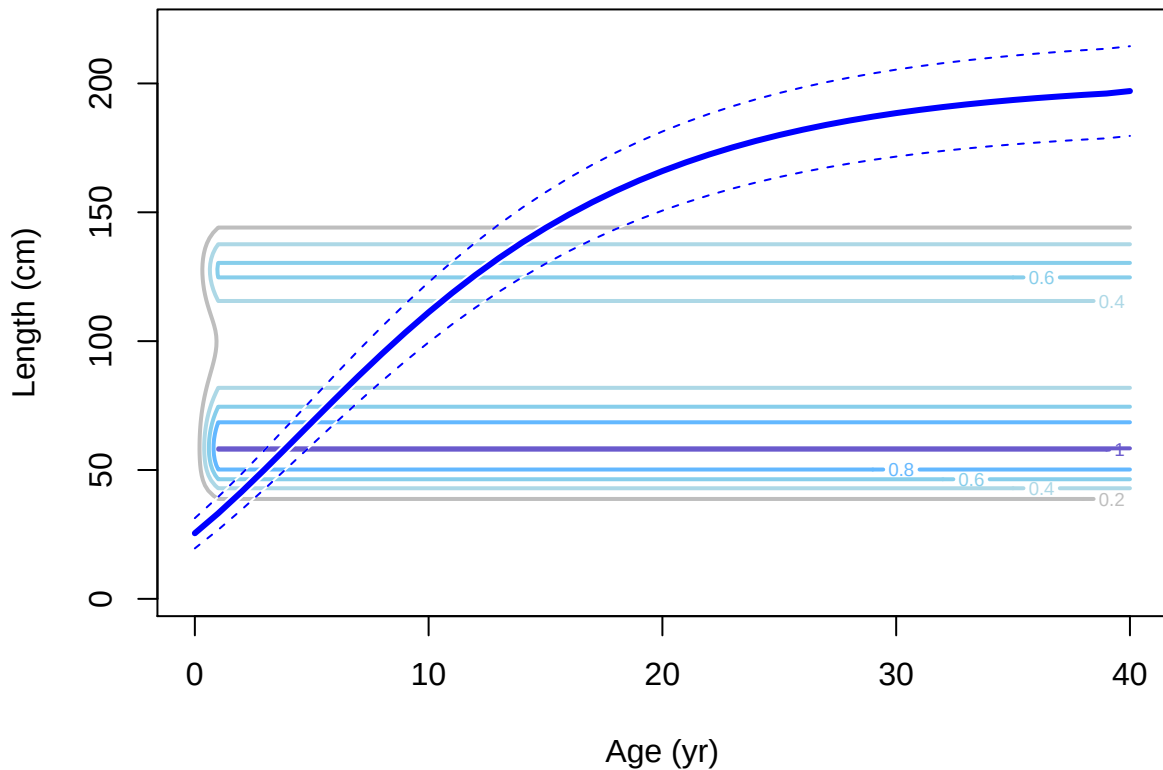
Male ending year selectivity and growth for A4-OBJ



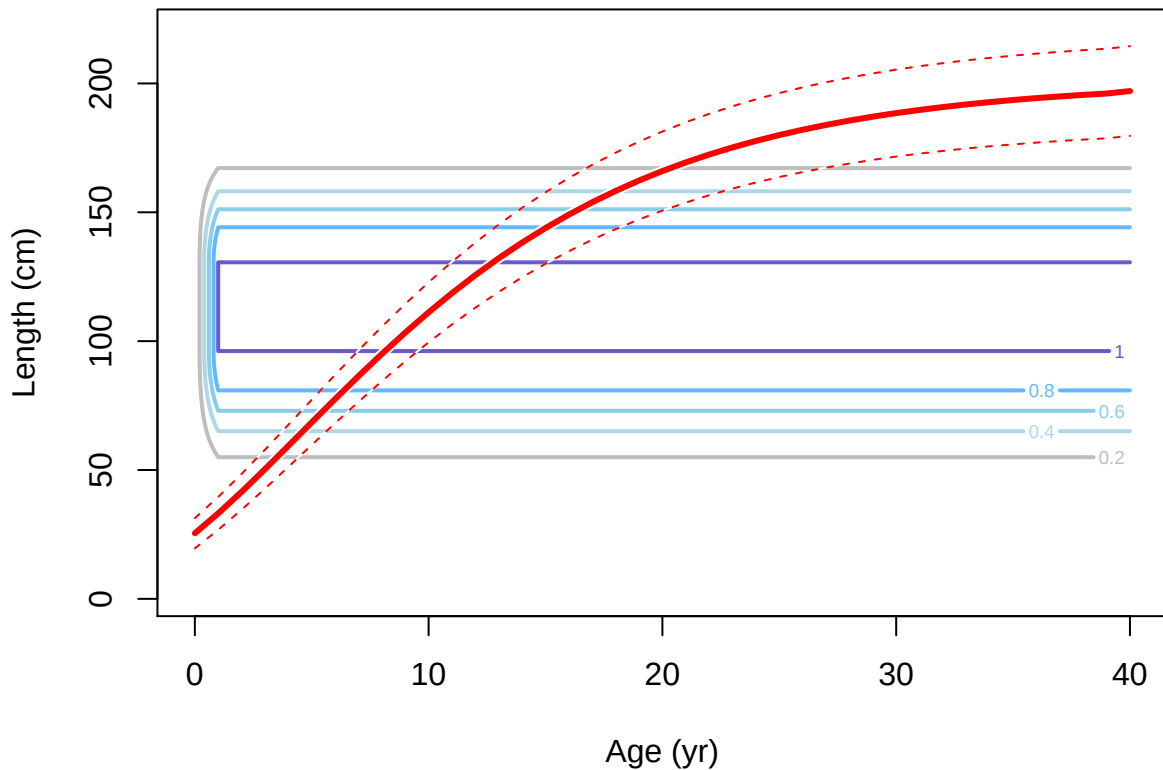
Female ending year selectivity and growth for A5-OBJ



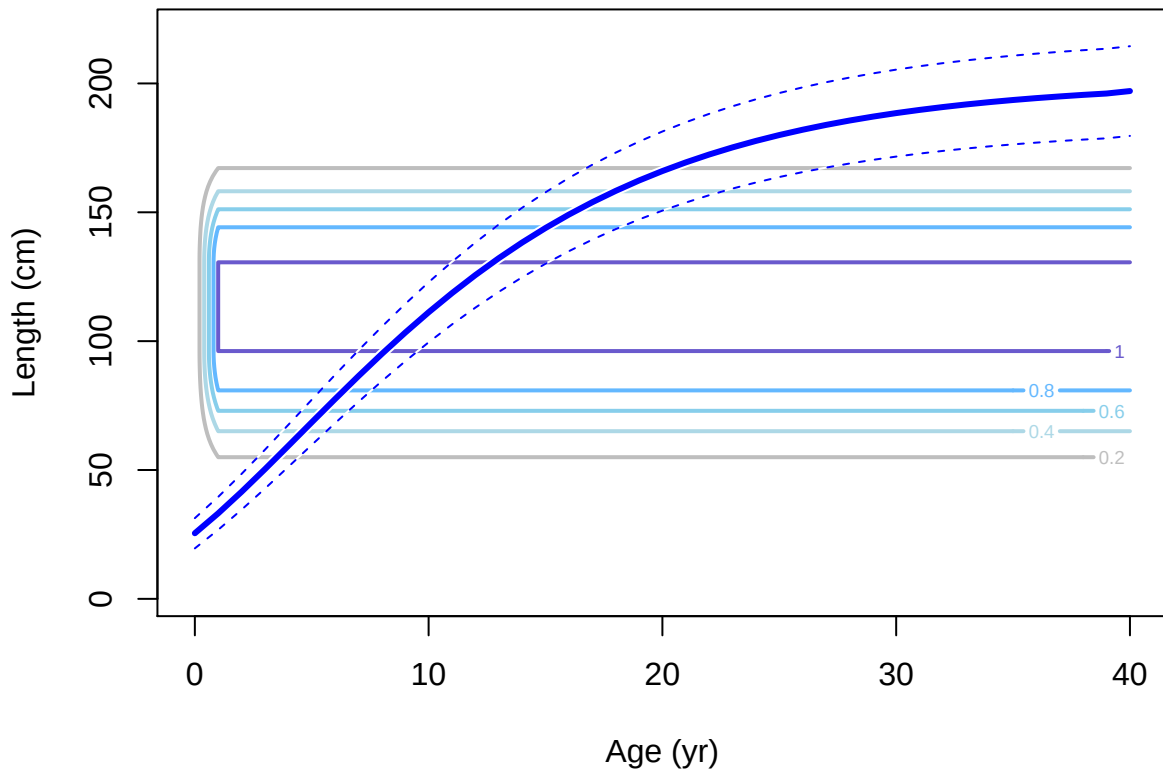
Male ending year selectivity and growth for A5-OBJ



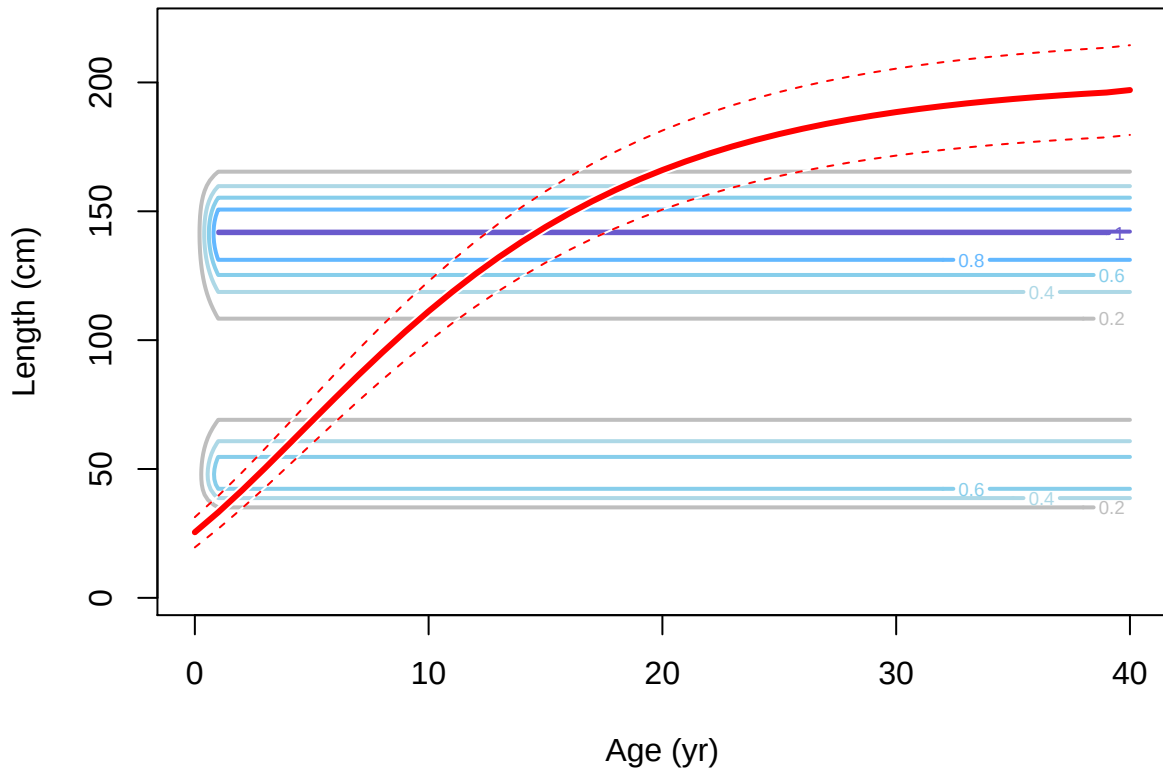
Female ending year selectivity and growth for A6-OBJ



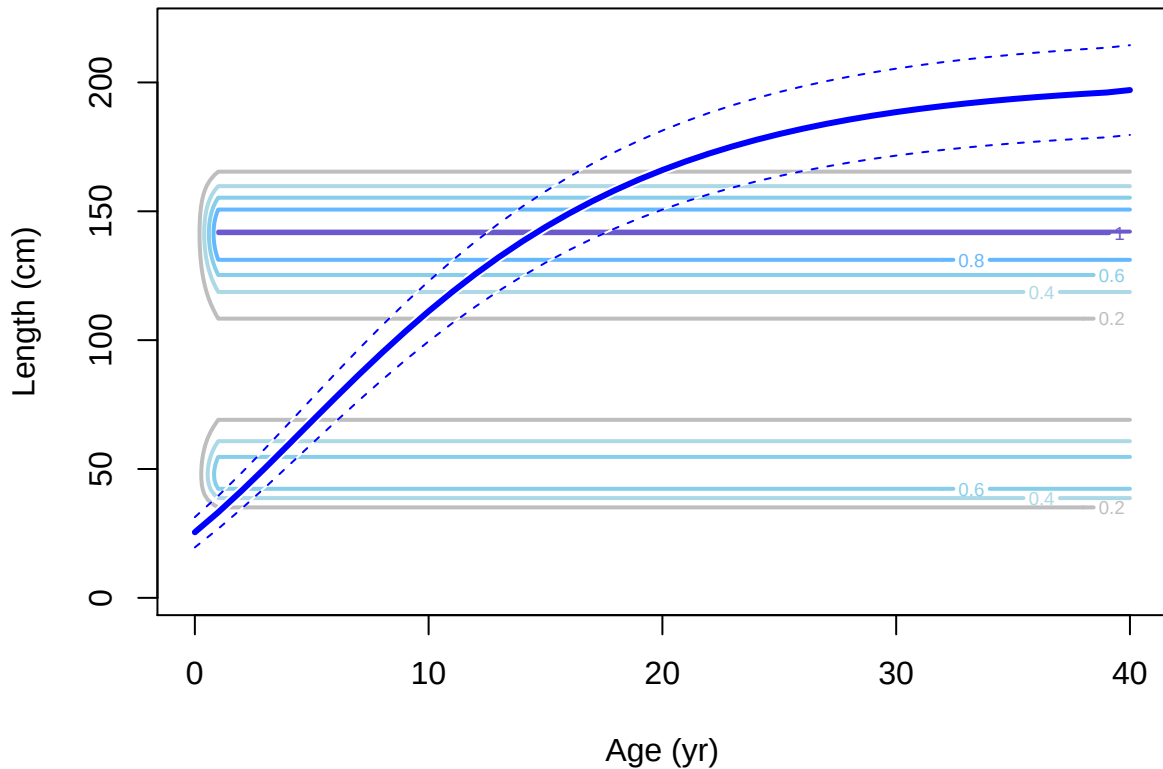
Male ending year selectivity and growth for A6-OBJ



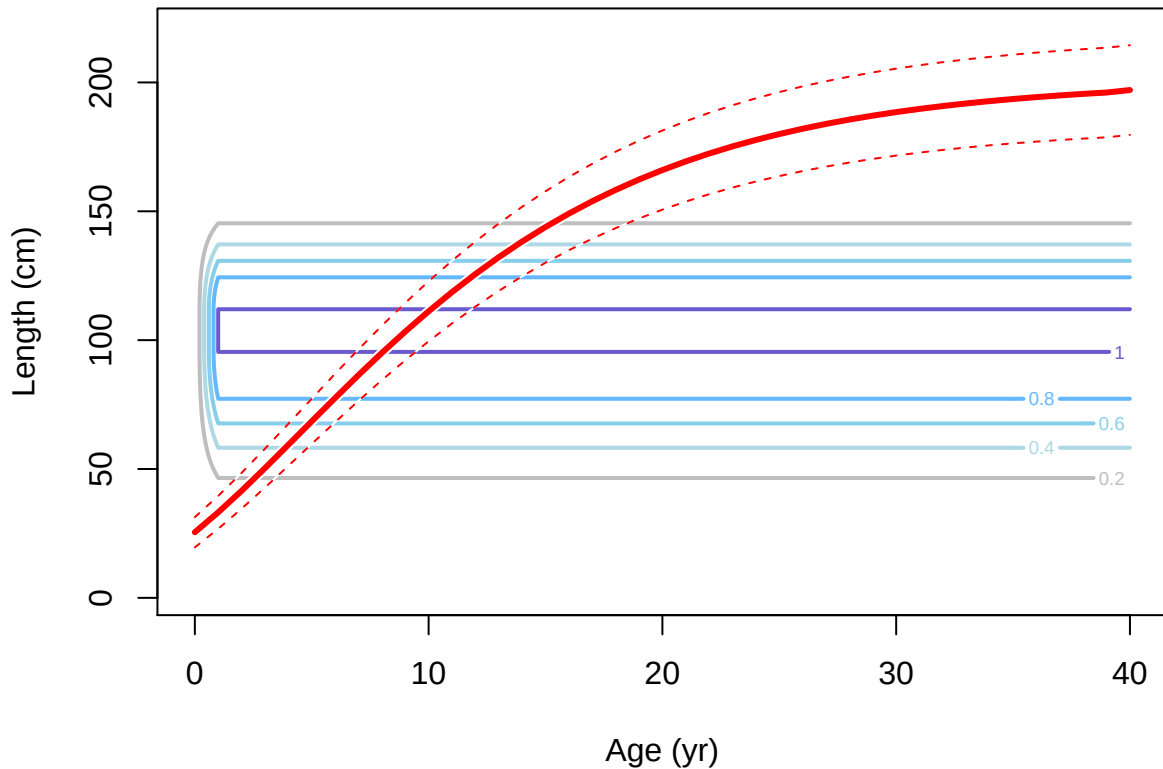
Female ending year selectivity and growth for A2-NOADEL



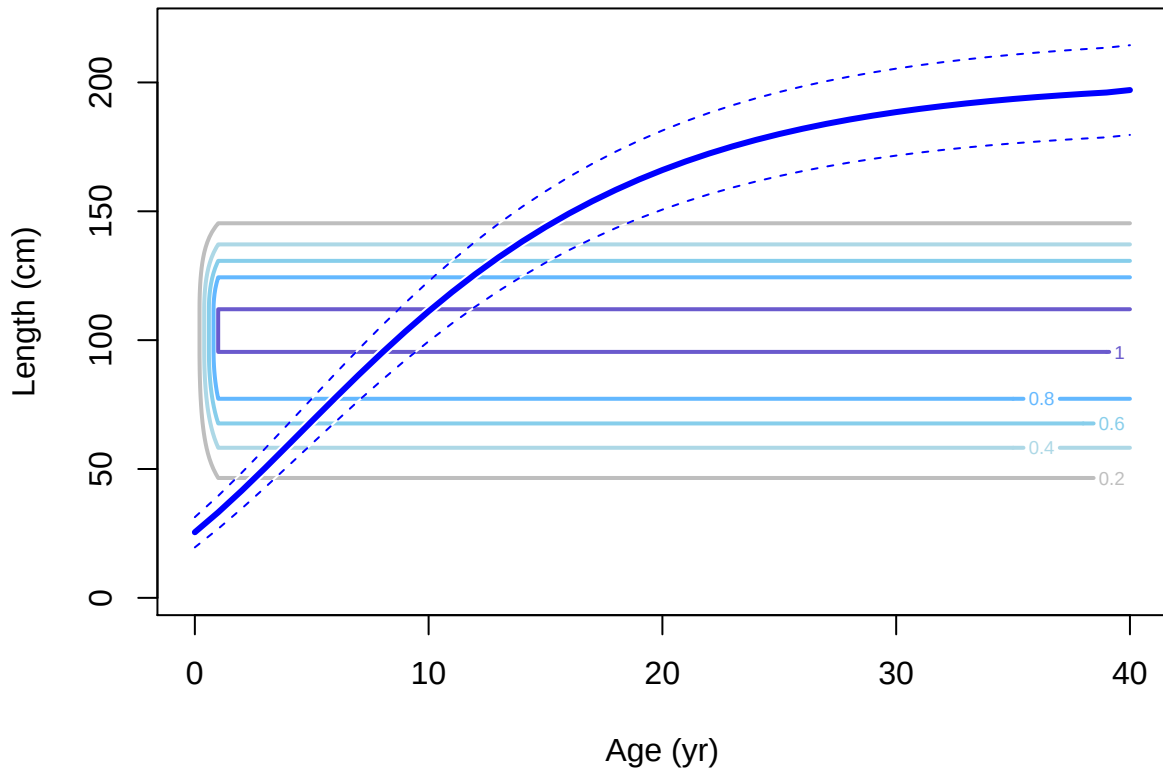
Male ending year selectivity and growth for A2-NOADEL



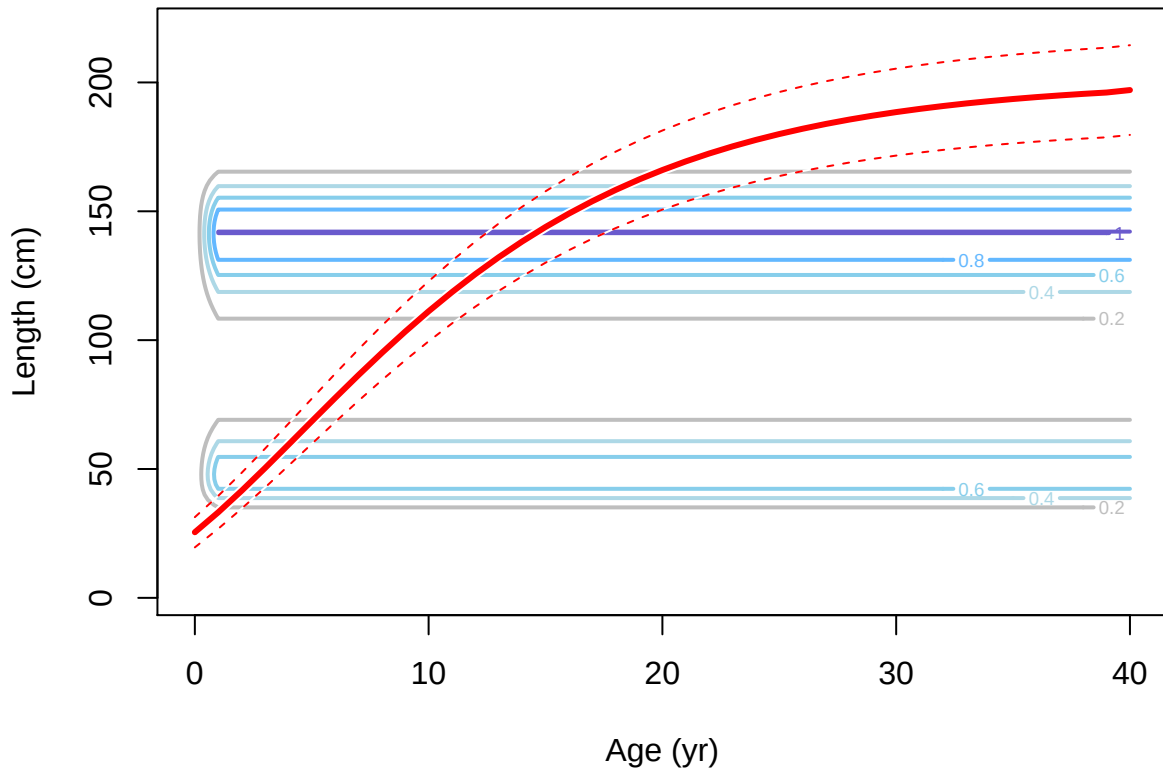
Female ending year selectivity and growth for A3-NOADEL



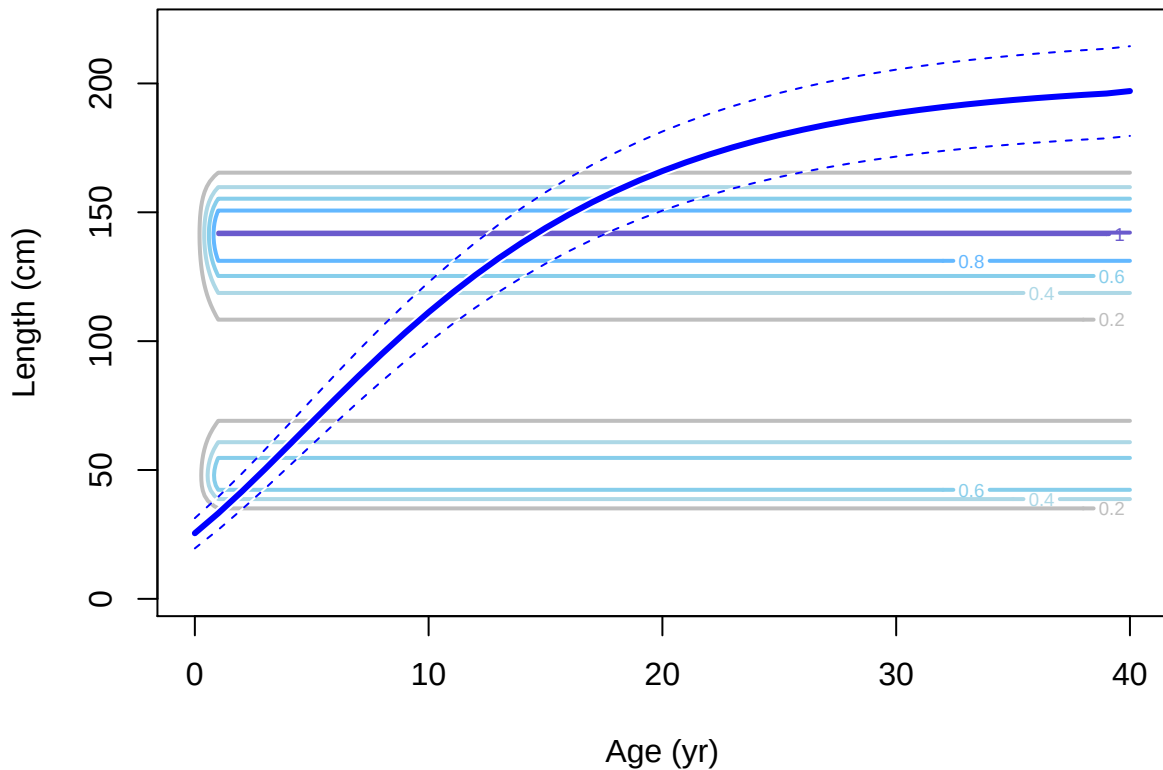
Male ending year selectivity and growth for A3-NOADEL



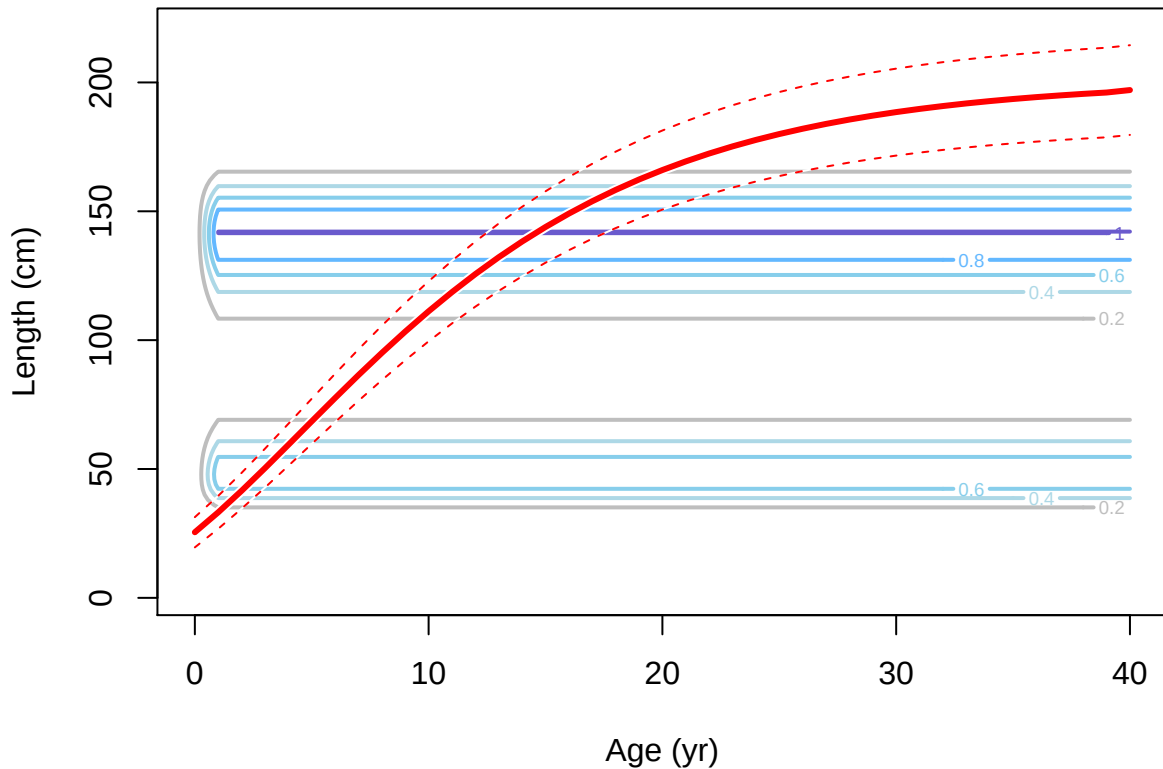
Female ending year selectivity and growth for A4-NOADEL



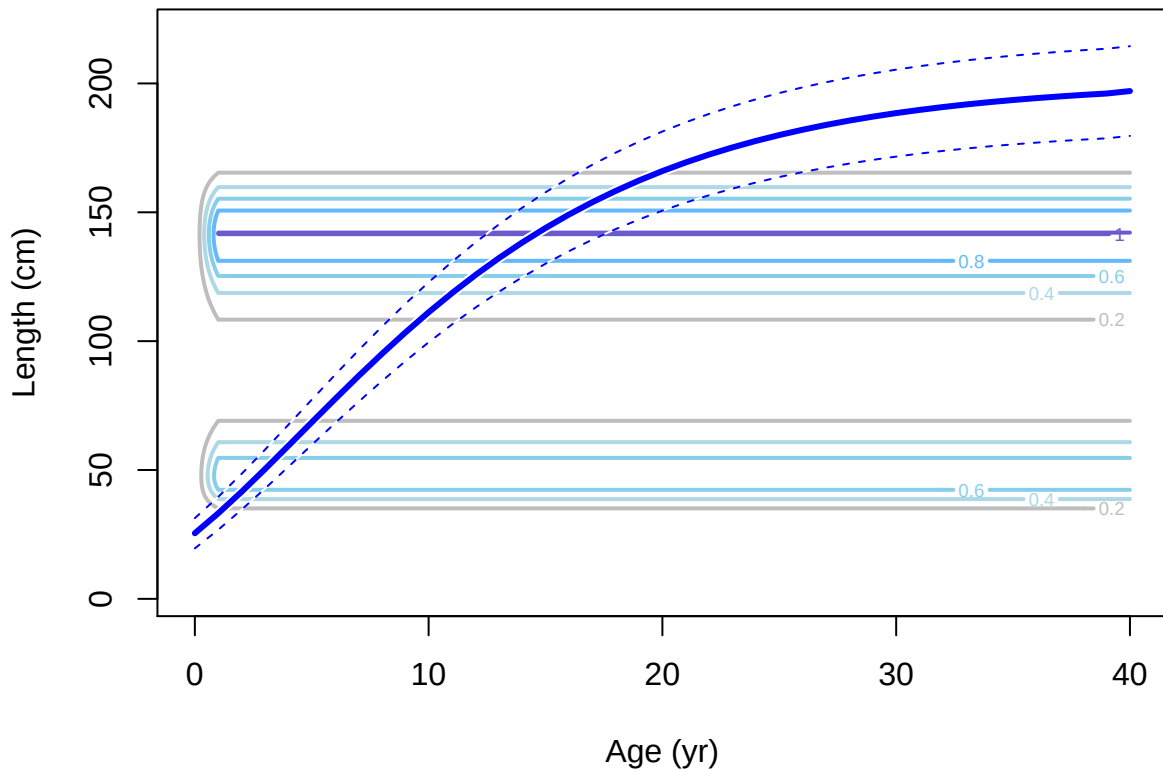
Male ending year selectivity and growth for A4-NOADEL



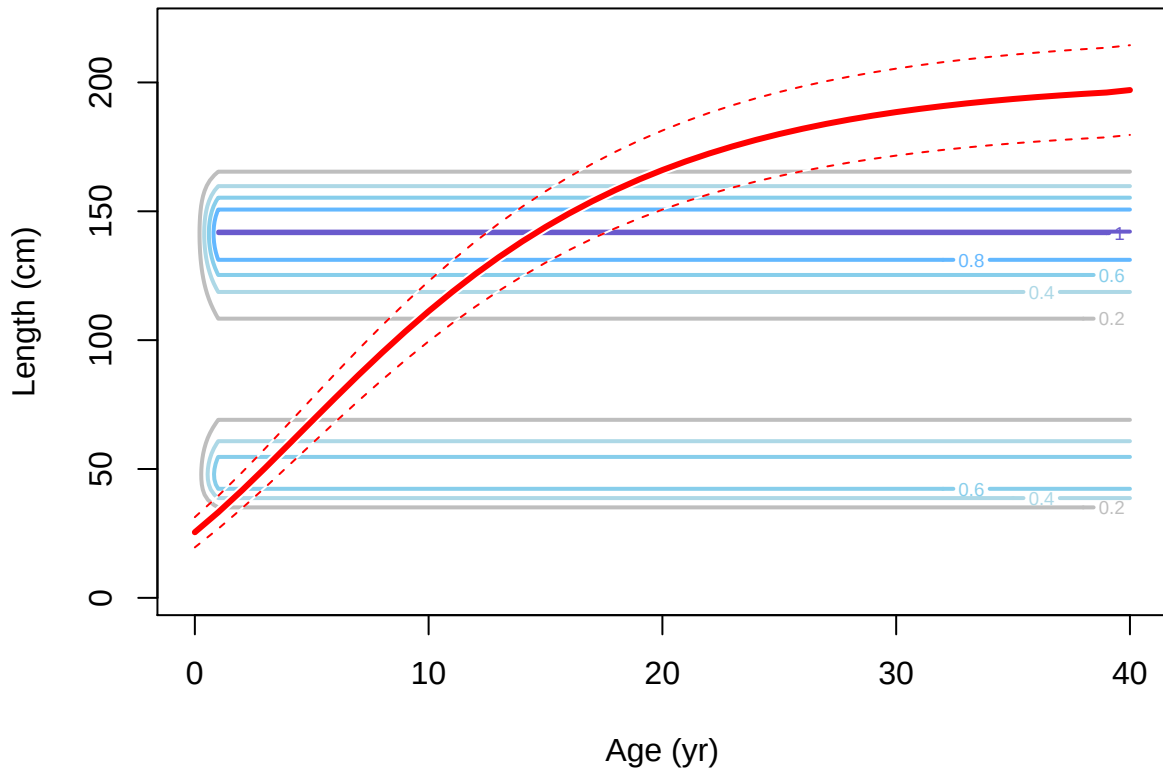
Female ending year selectivity and growth for A5-NOADEL



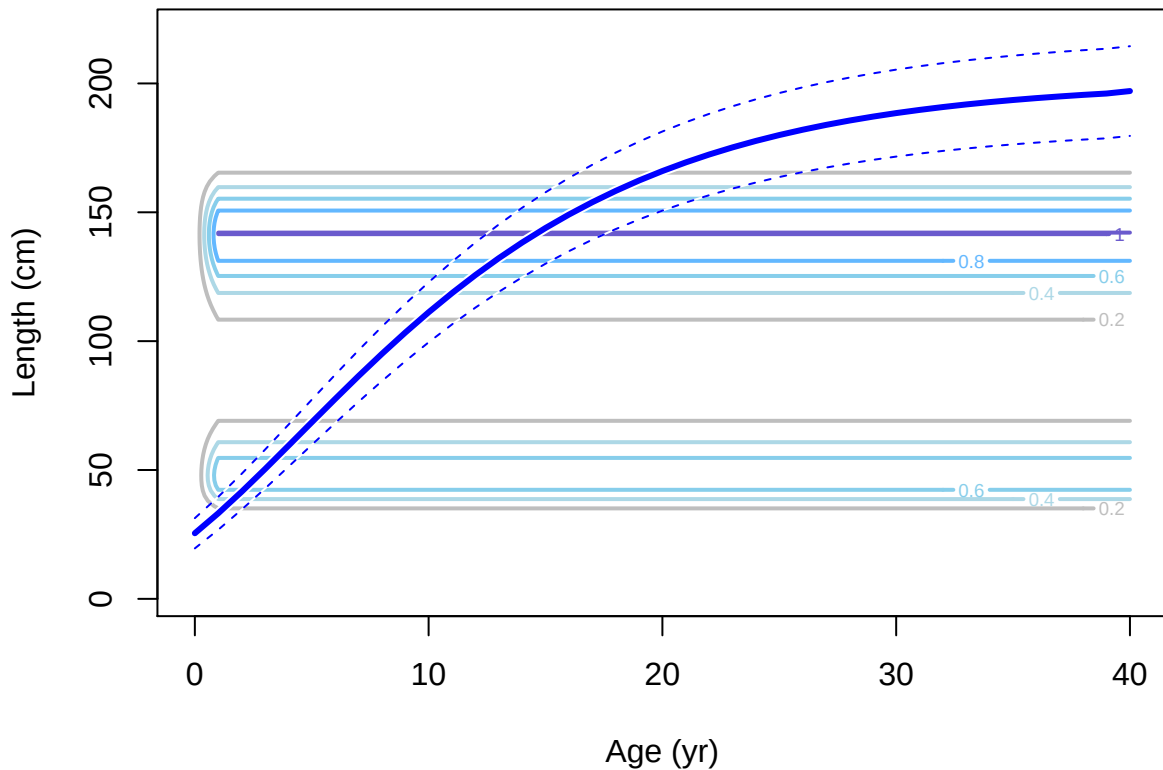
Male ending year selectivity and growth for A5-NOADEL



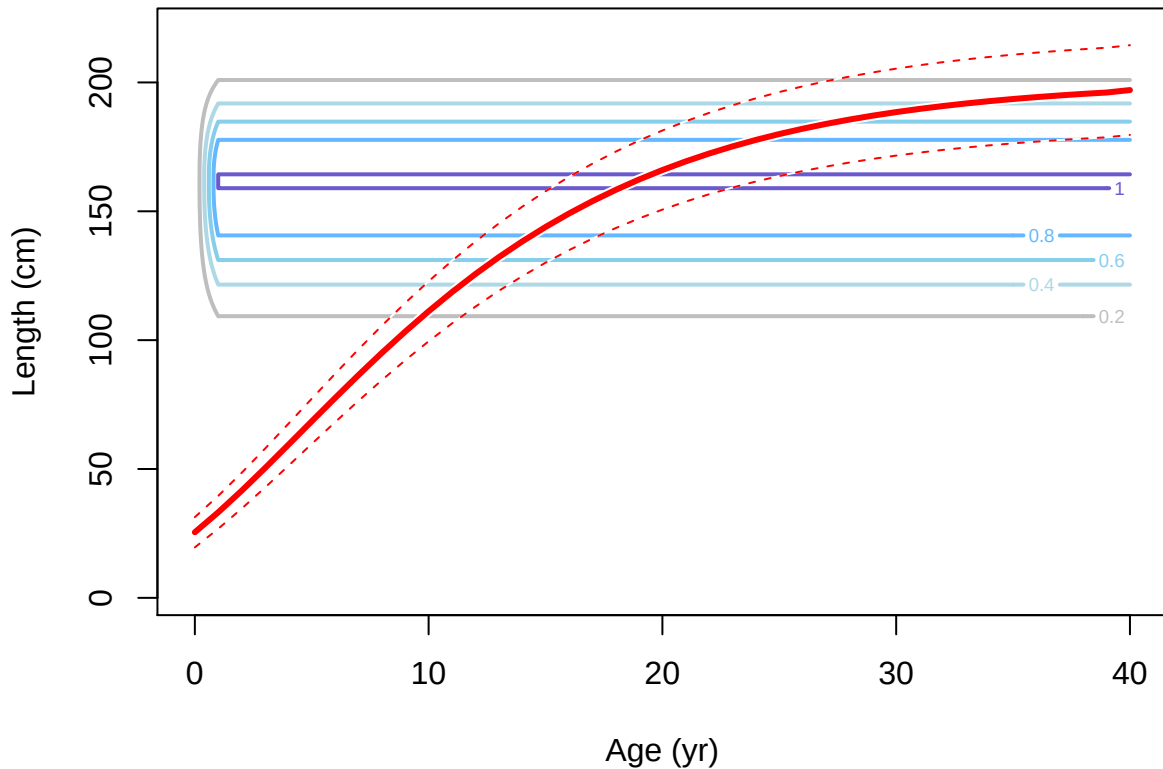
Female ending year selectivity and growth for A6-NOADEL



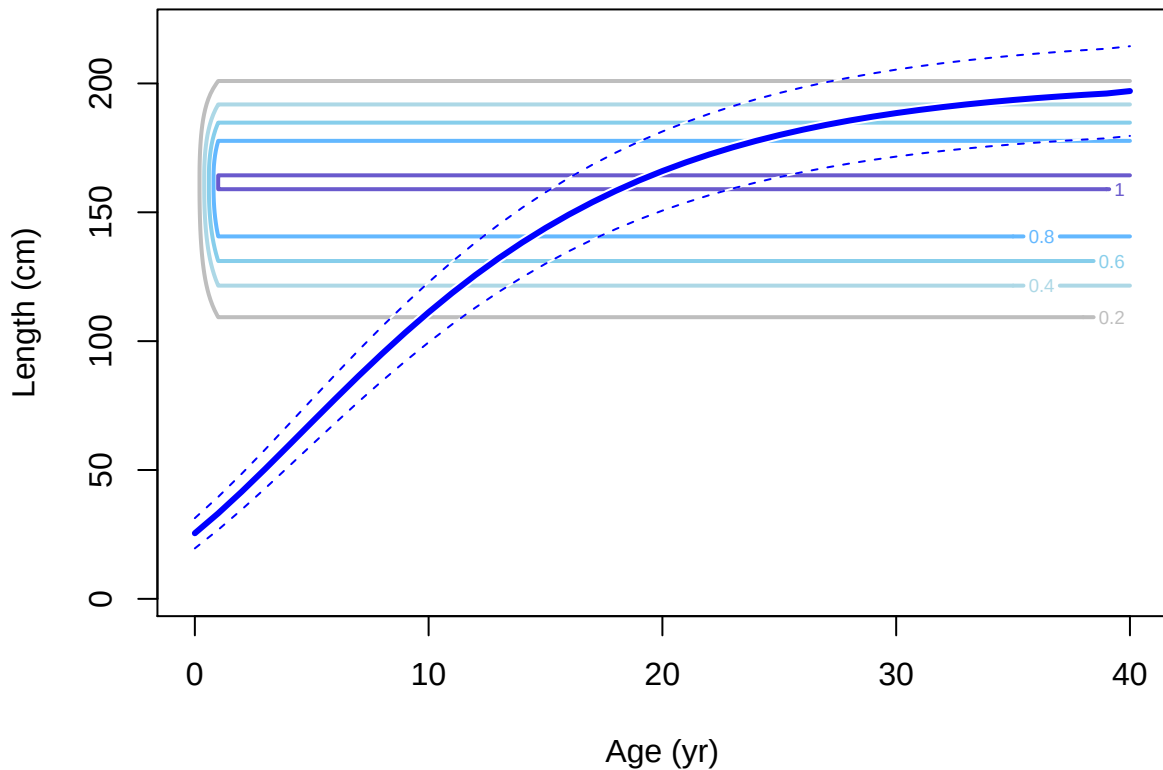
Male ending year selectivity and growth for A6-NOADEL



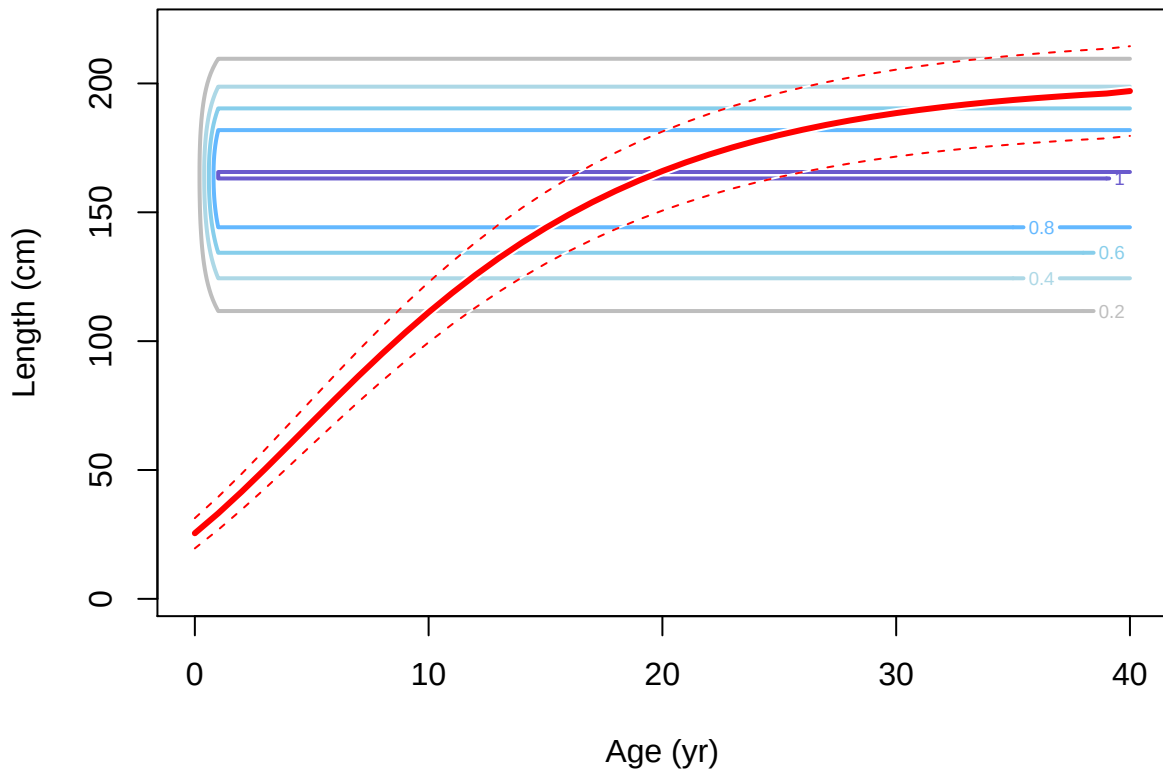
Female ending year selectivity and growth for EPO-LL-survey-early



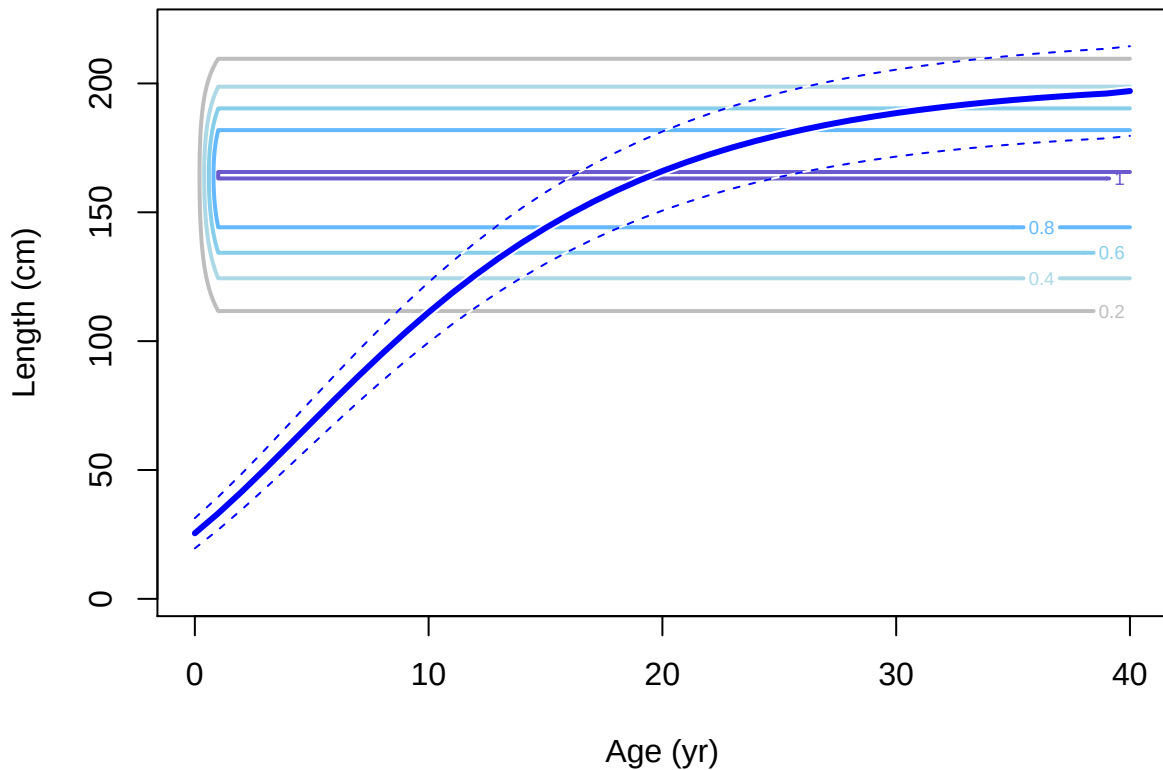
Male ending year selectivity and growth for EPO-LL-survey-early



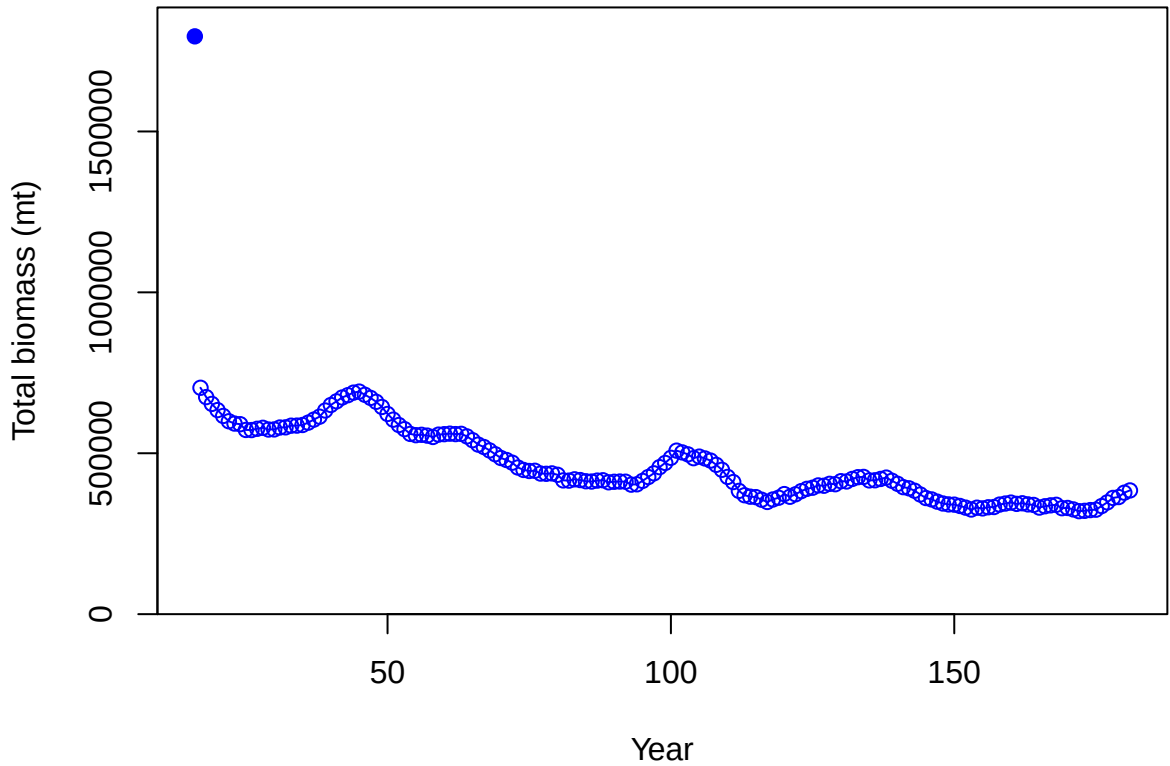
Female ending year selectivity and growth for EPO-LL-survey-late



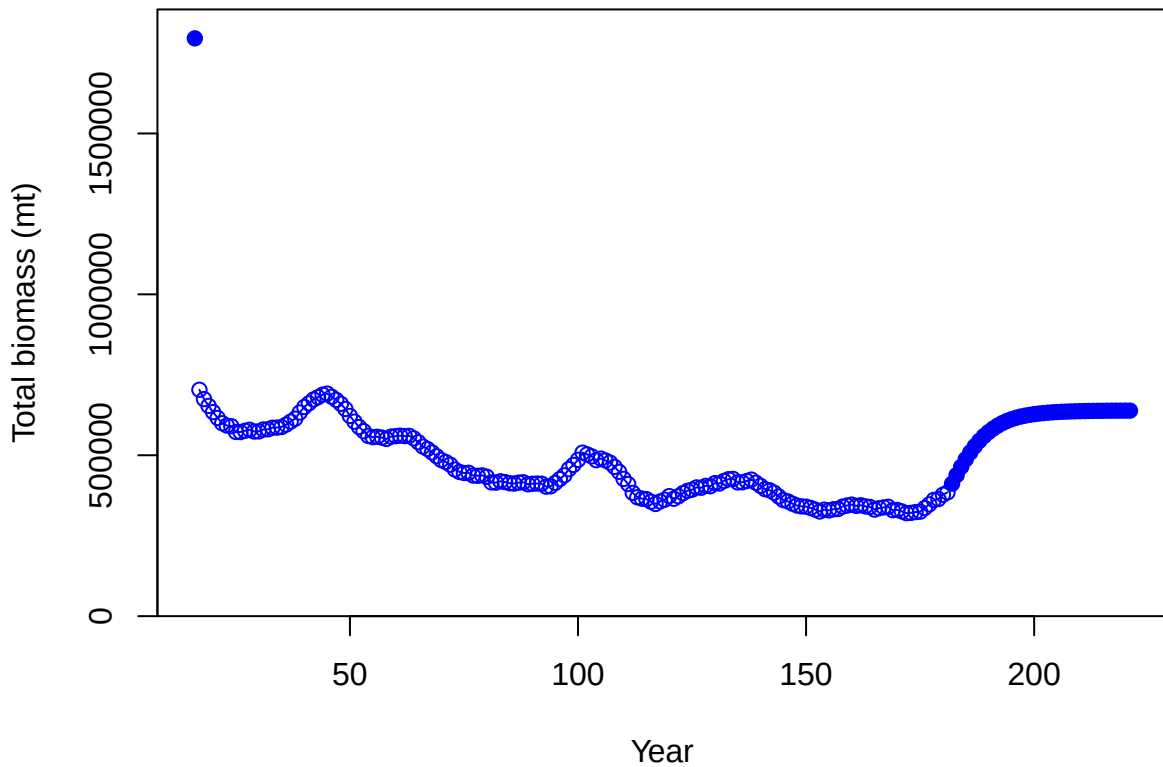
Male ending year selectivity and growth for EPO-LL-survey-late



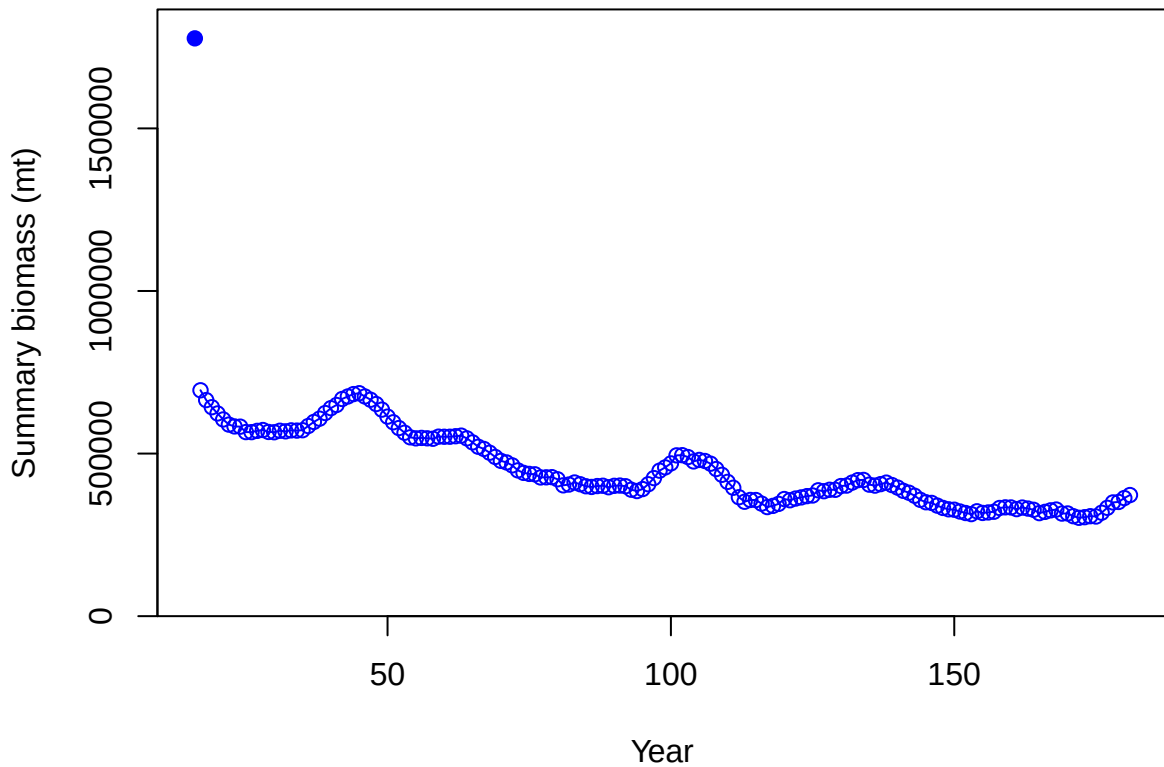
Total biomass (mt)



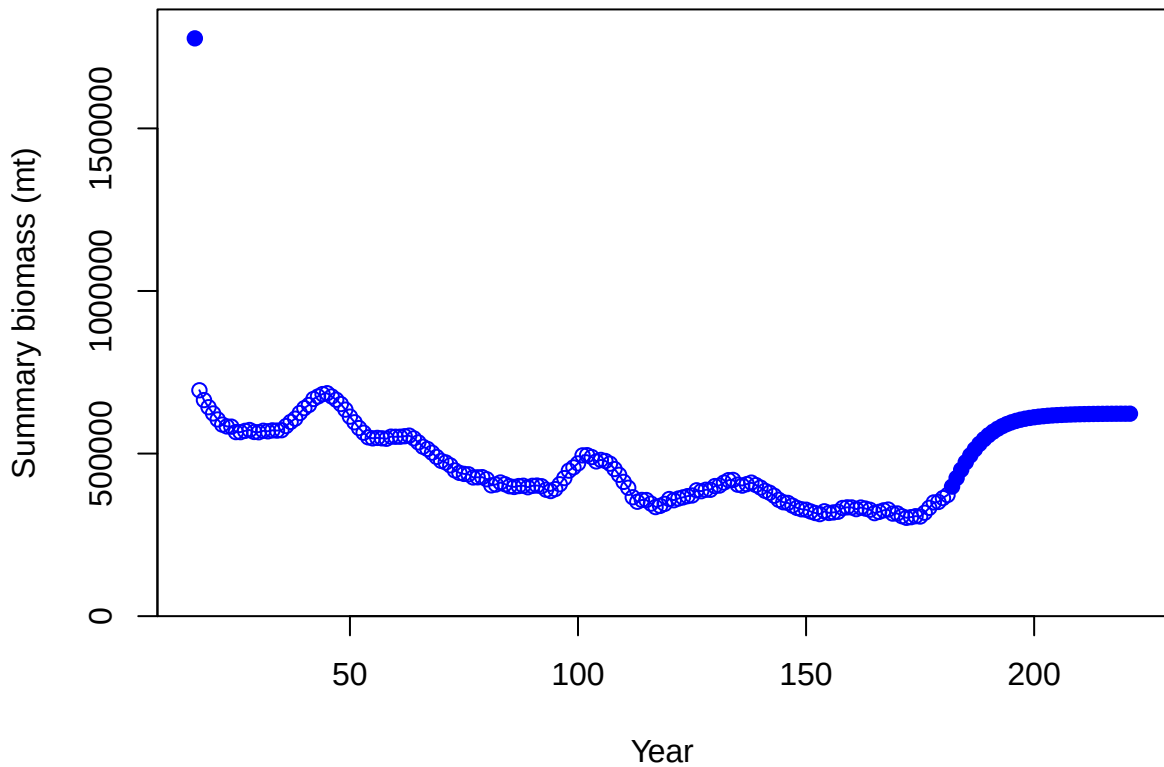
Total biomass (mt) with forecast



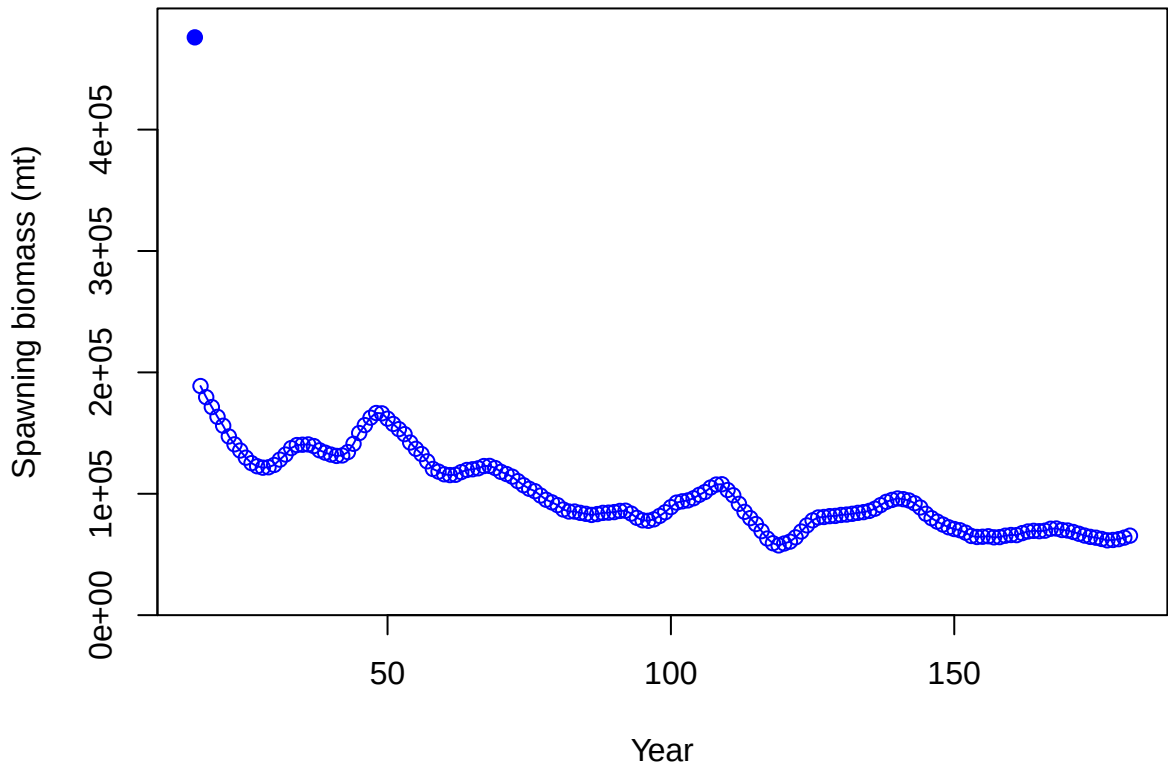
Summary biomass (mt)



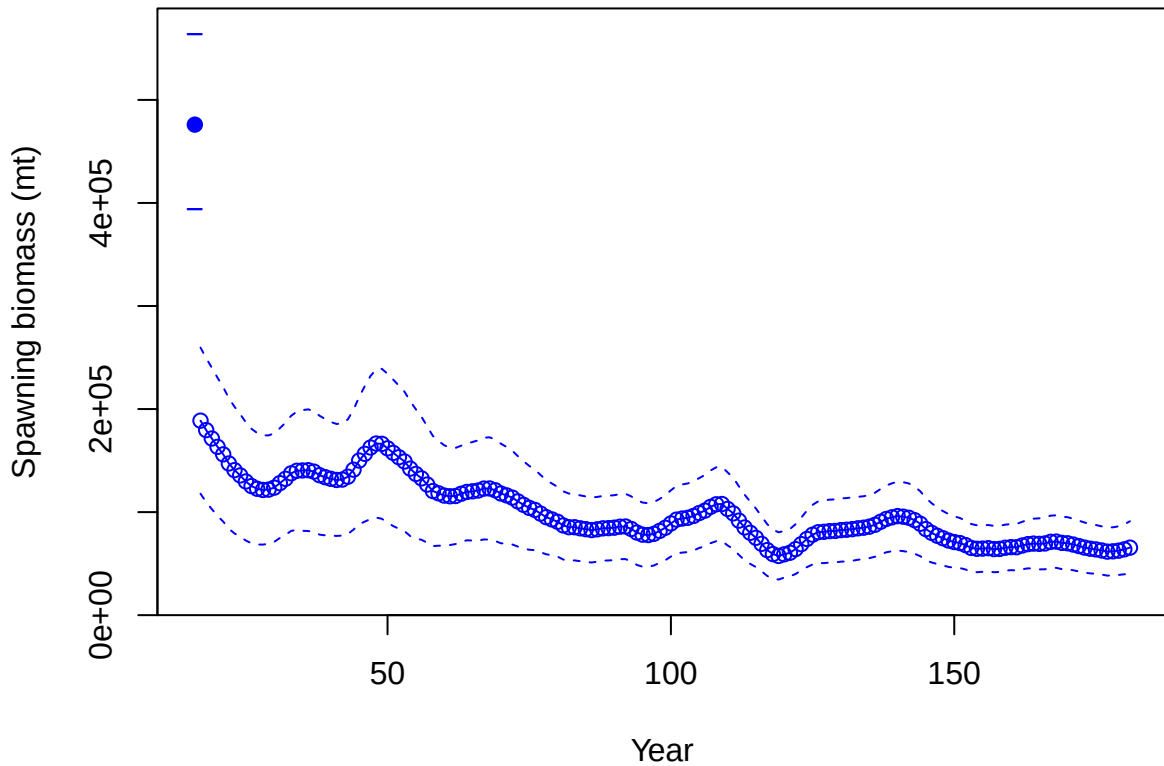
Summary biomass (mt) with forecast



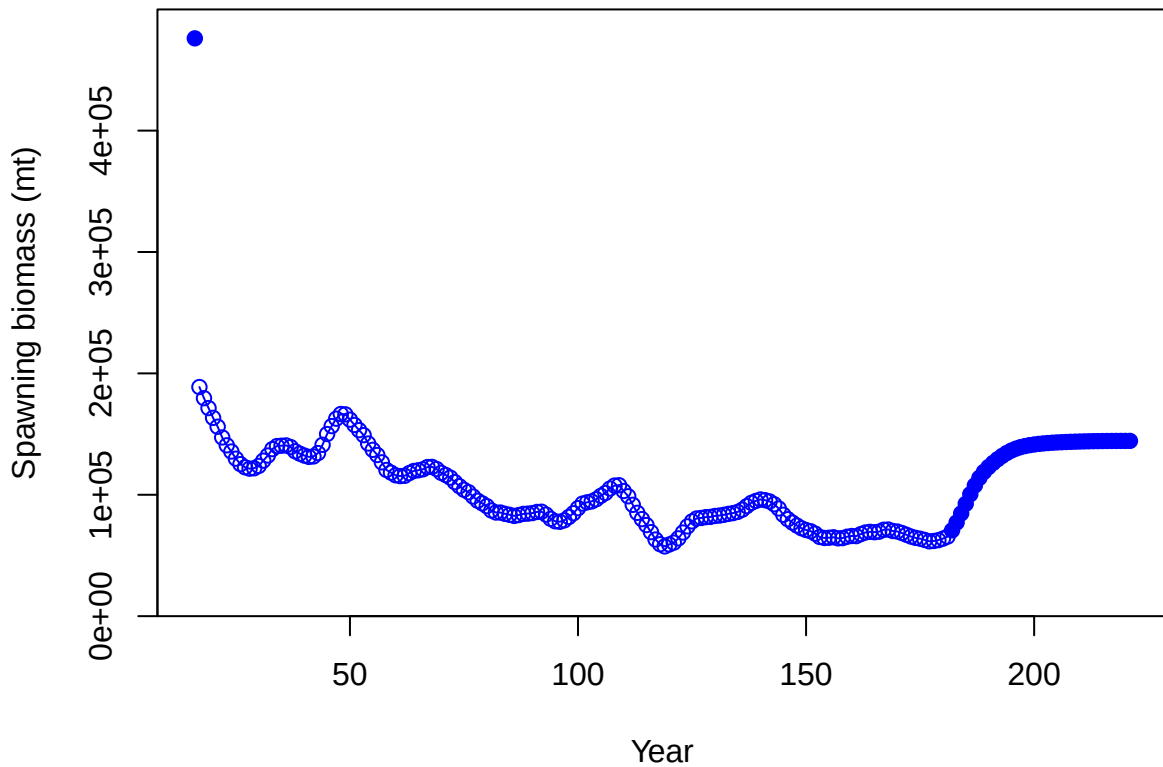
Spawning biomass (mt)



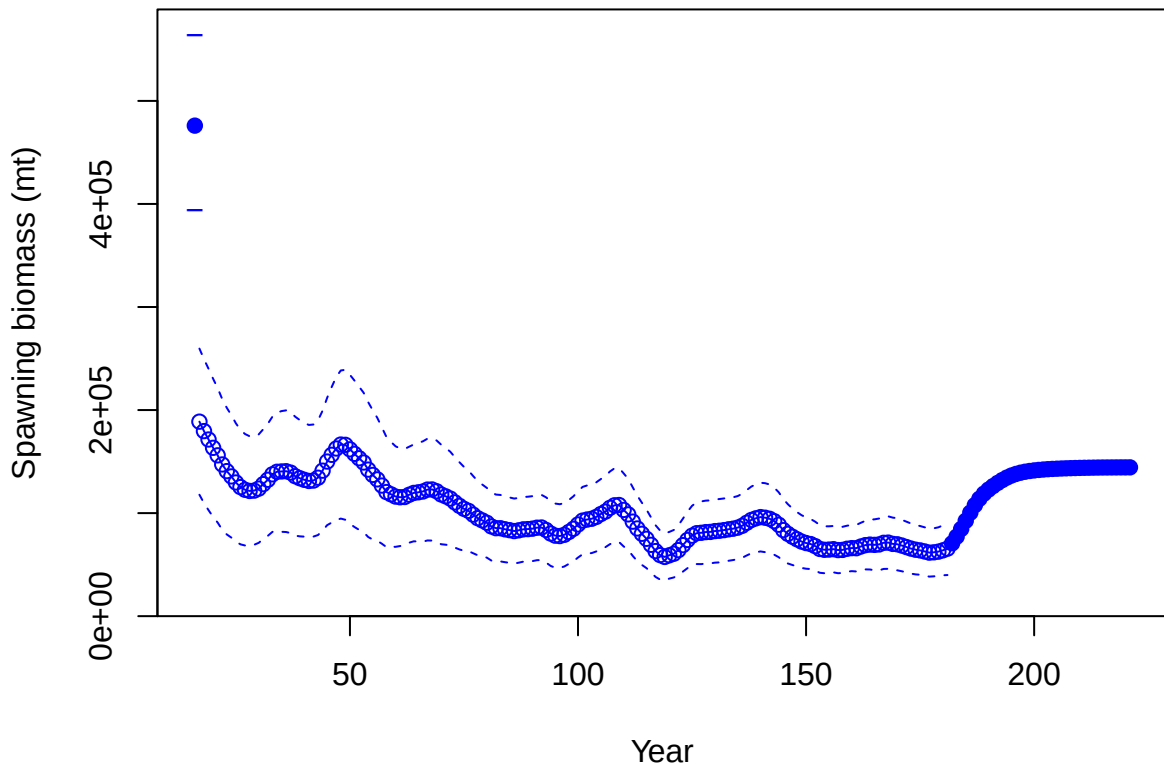
Spawning biomass (mt) with ~95% asymptotic intervals



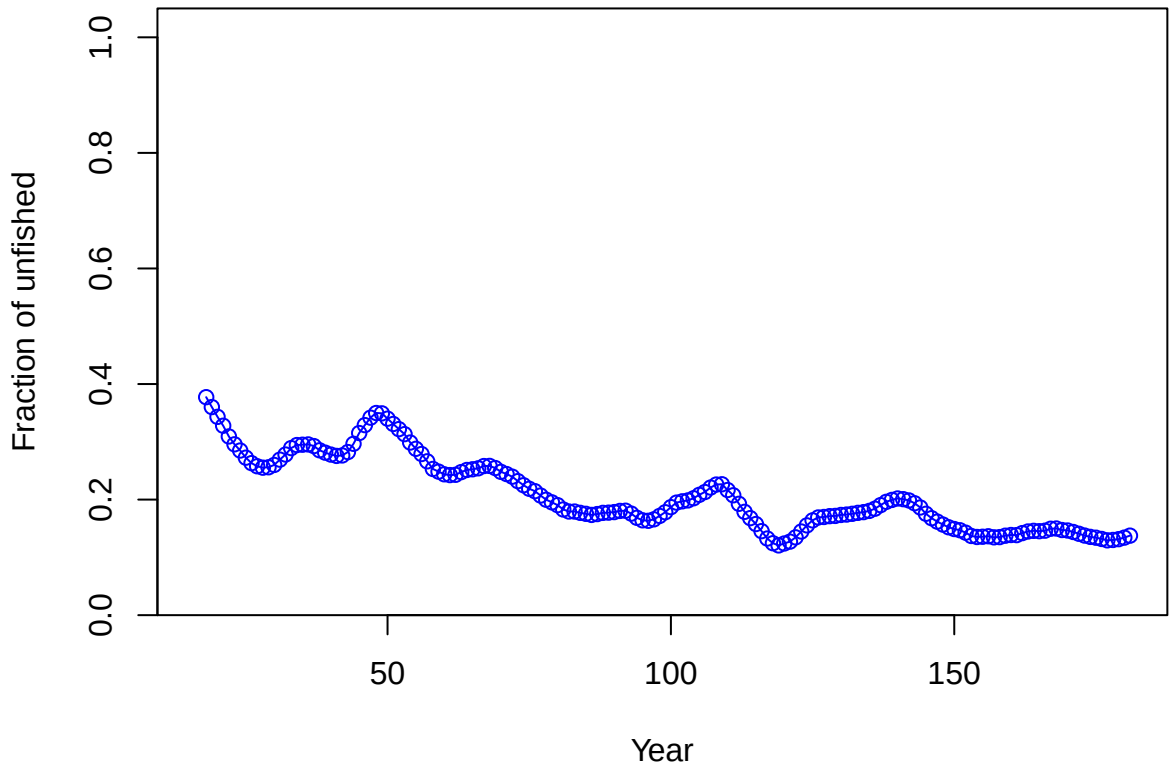
Spawning biomass (mt) with forecast



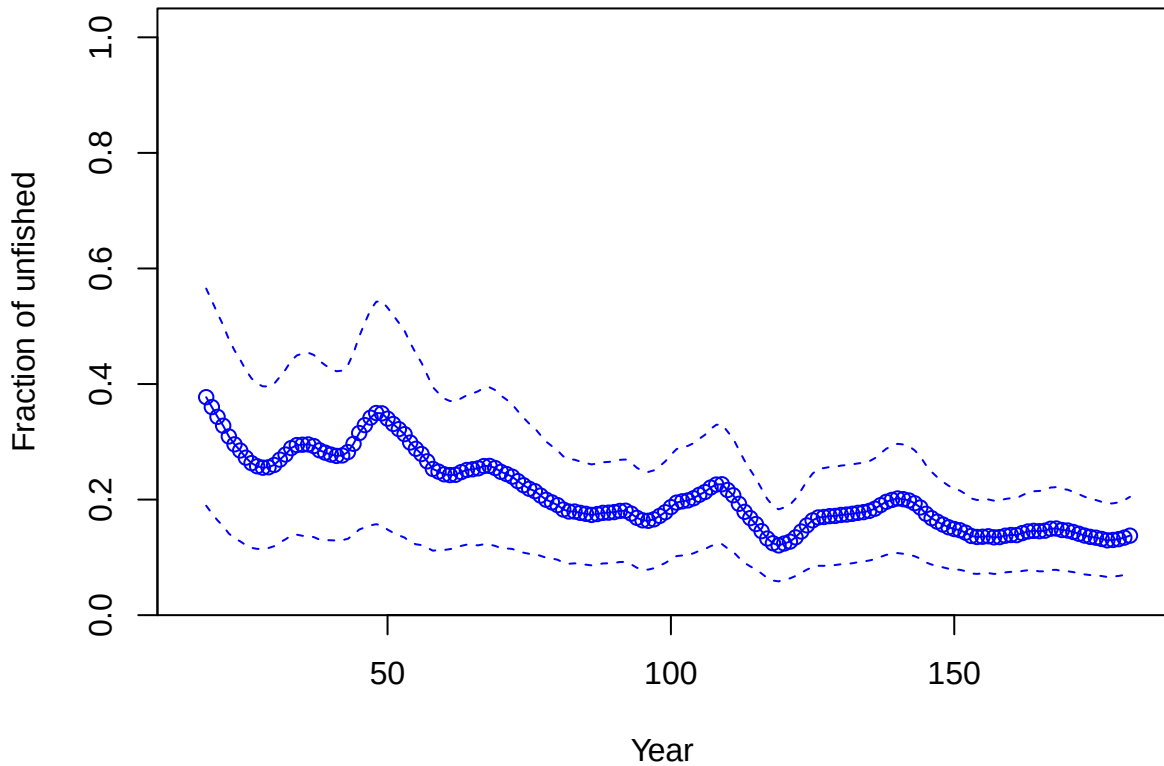
Spawning biomass (mt) with forecast with ~95% asymptotic intervals



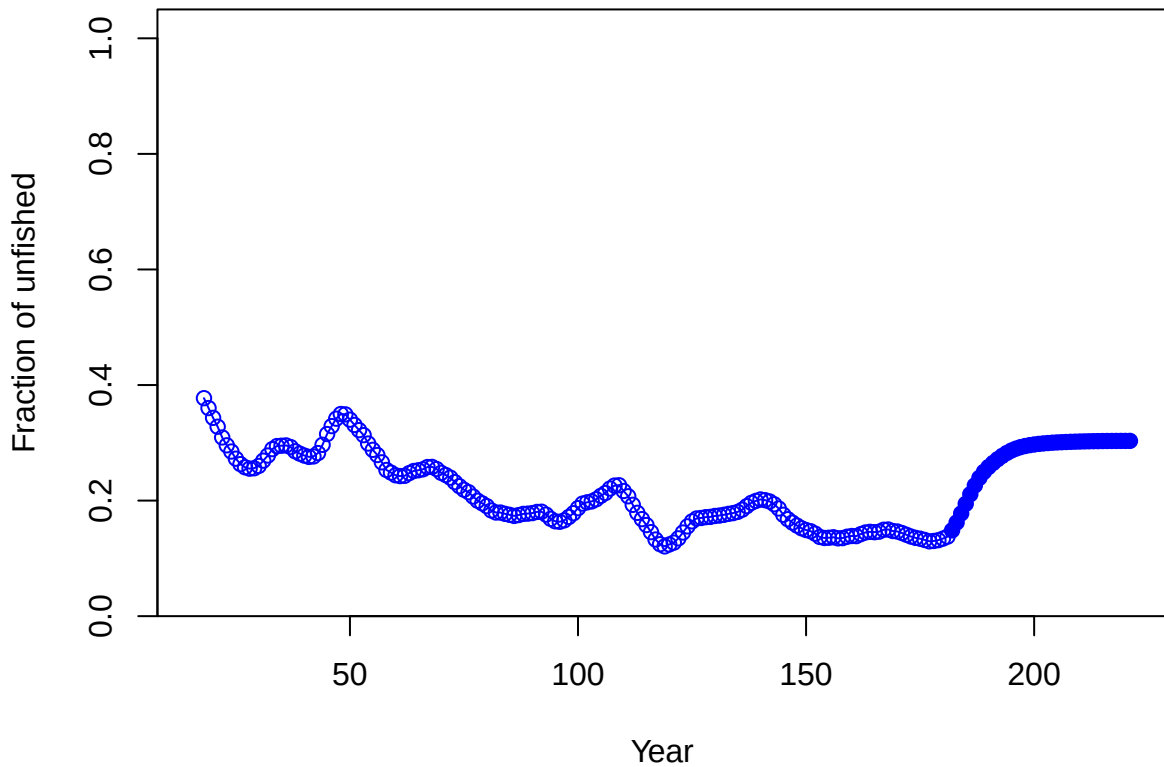
Fraction of unfished



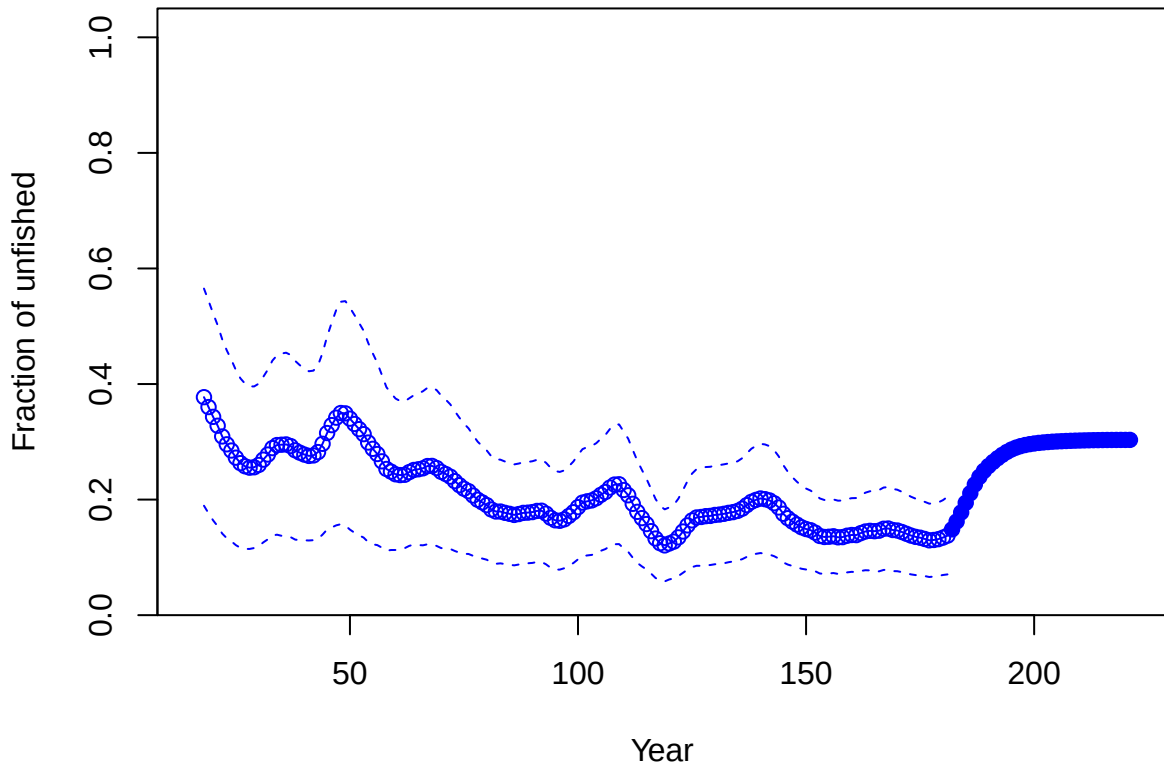
Fraction of unfished with ~95% asymptotic intervals



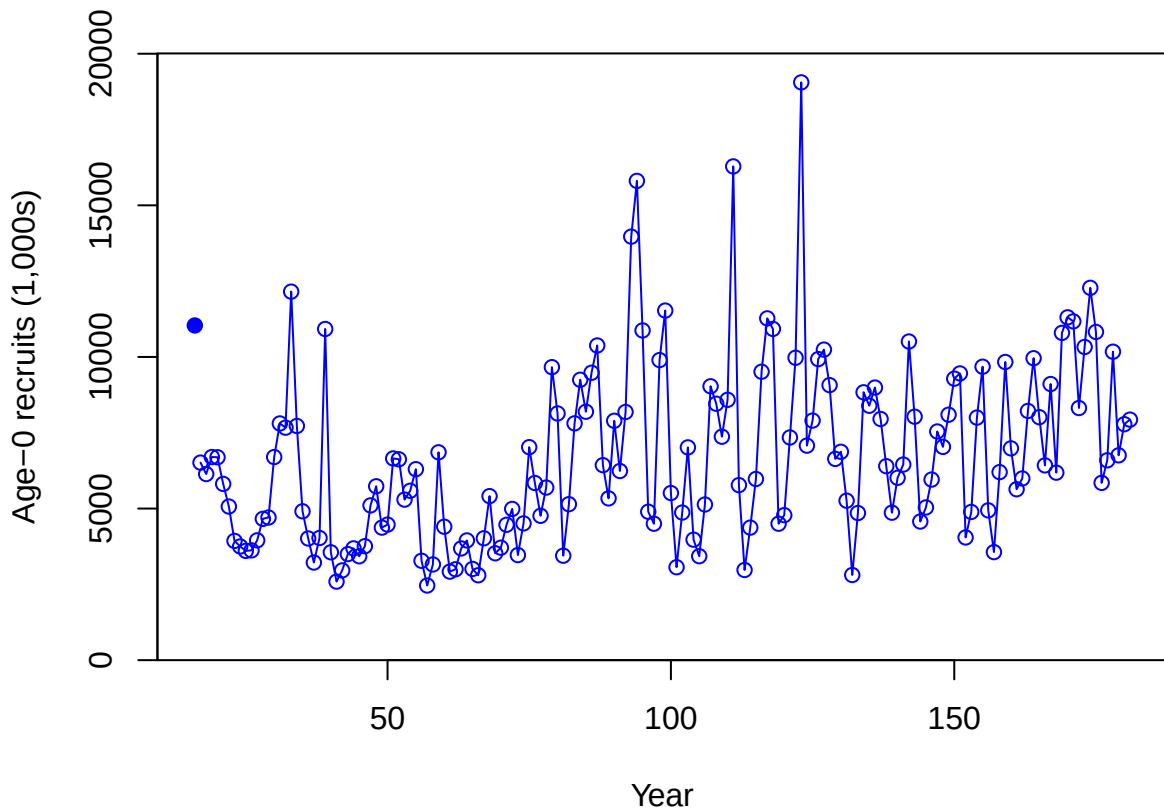
Fraction of unfished with forecast



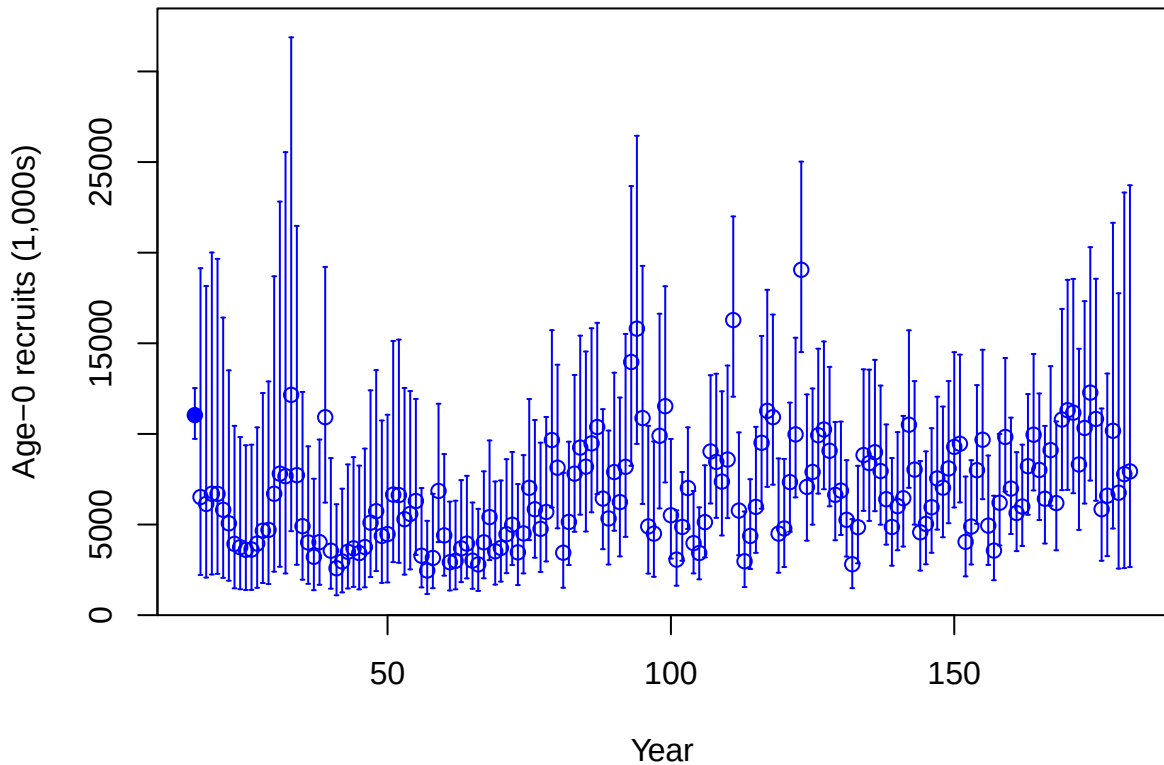
Fraction of unfished with forecast with ~95% asymptotic intervals



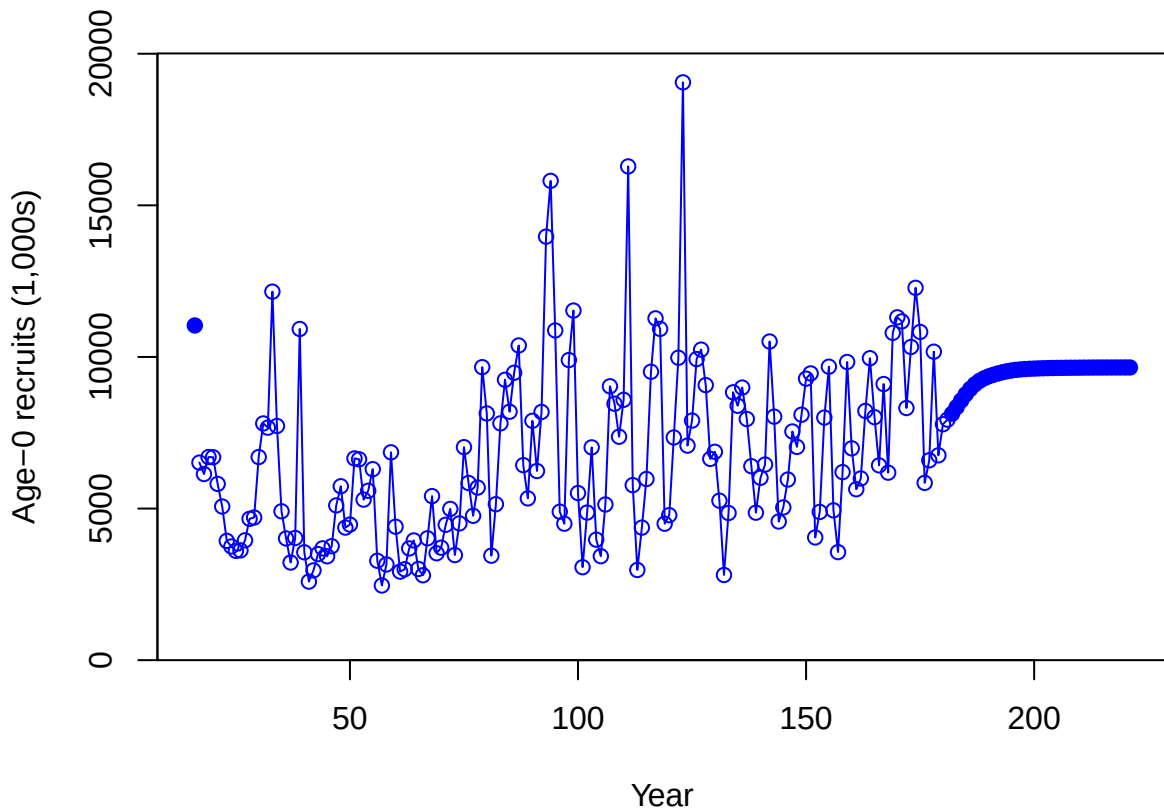
Age-0 recruits (1,000s)



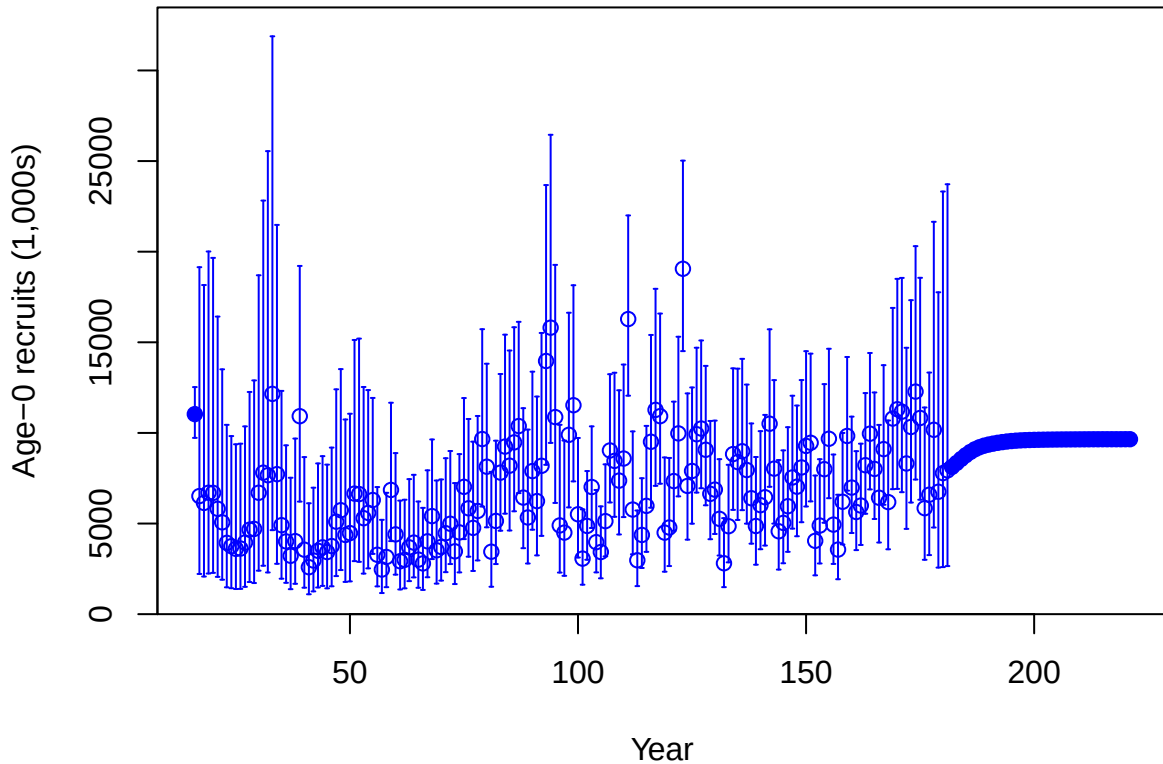
Age-0 recruits (1,000s) with ~95% asymptotic intervals



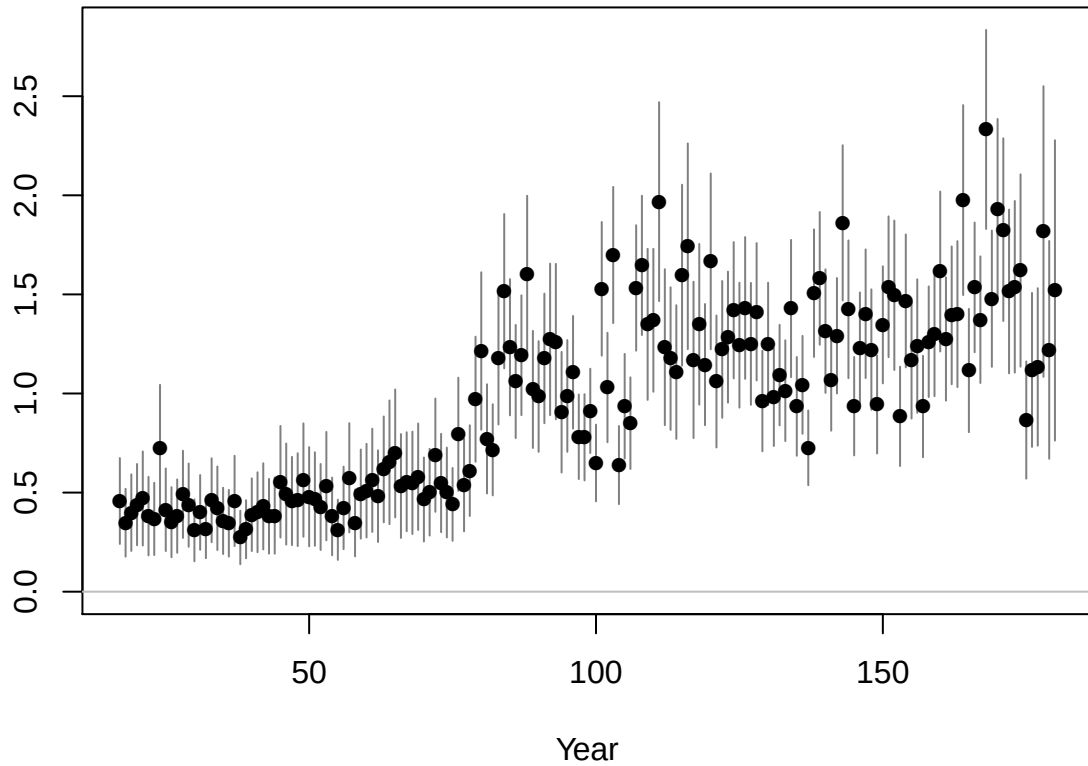
Age-0 recruits (1,000s) with forecast



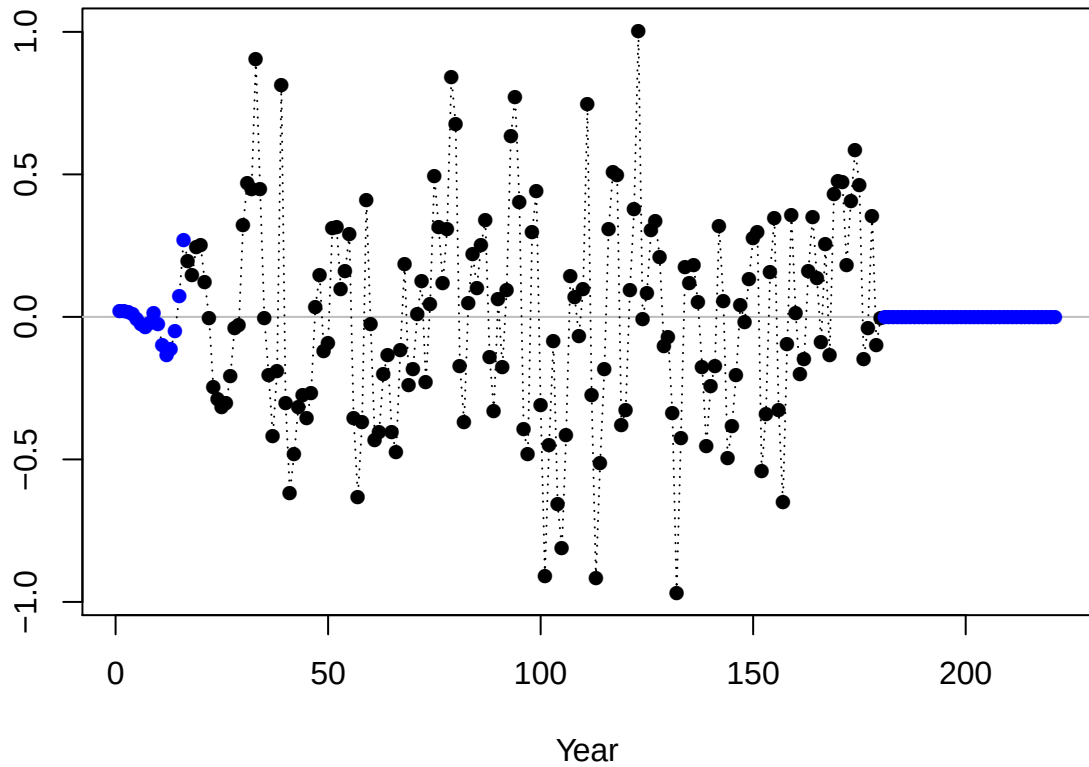
Age-0 recruits (1,000s) with forecast with ~95% asymptotic intervals

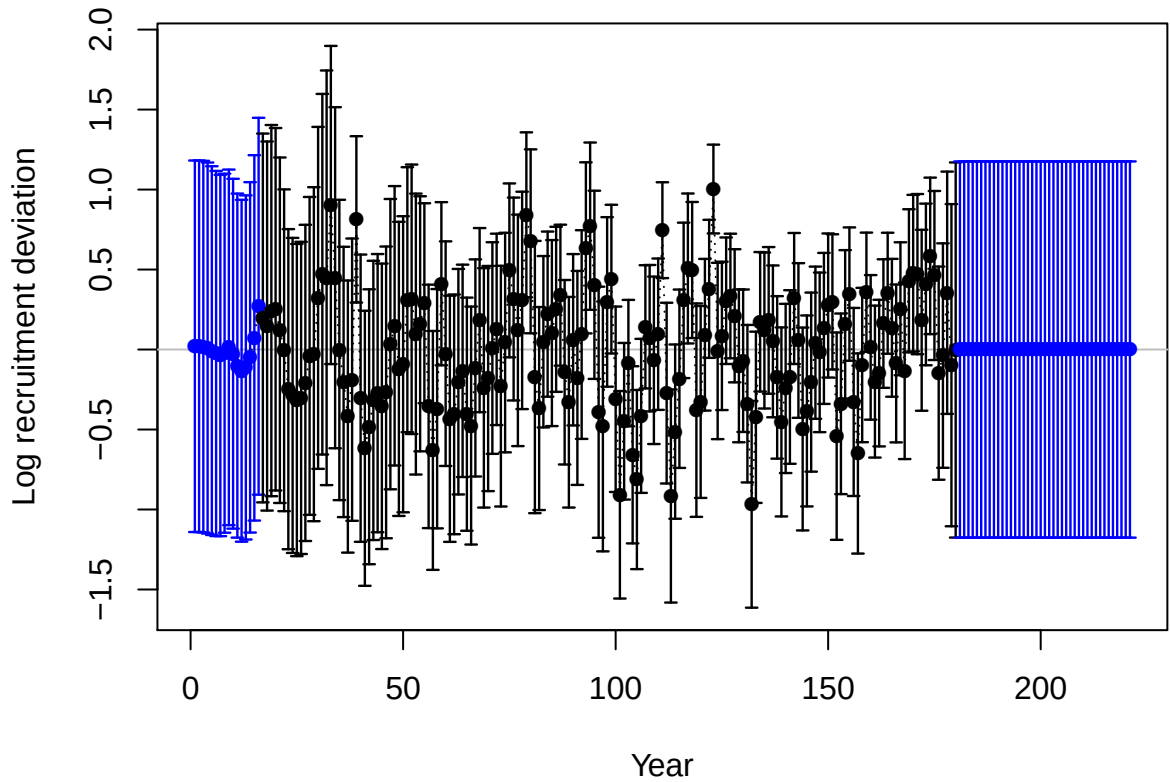


Summary Fishing Mortality

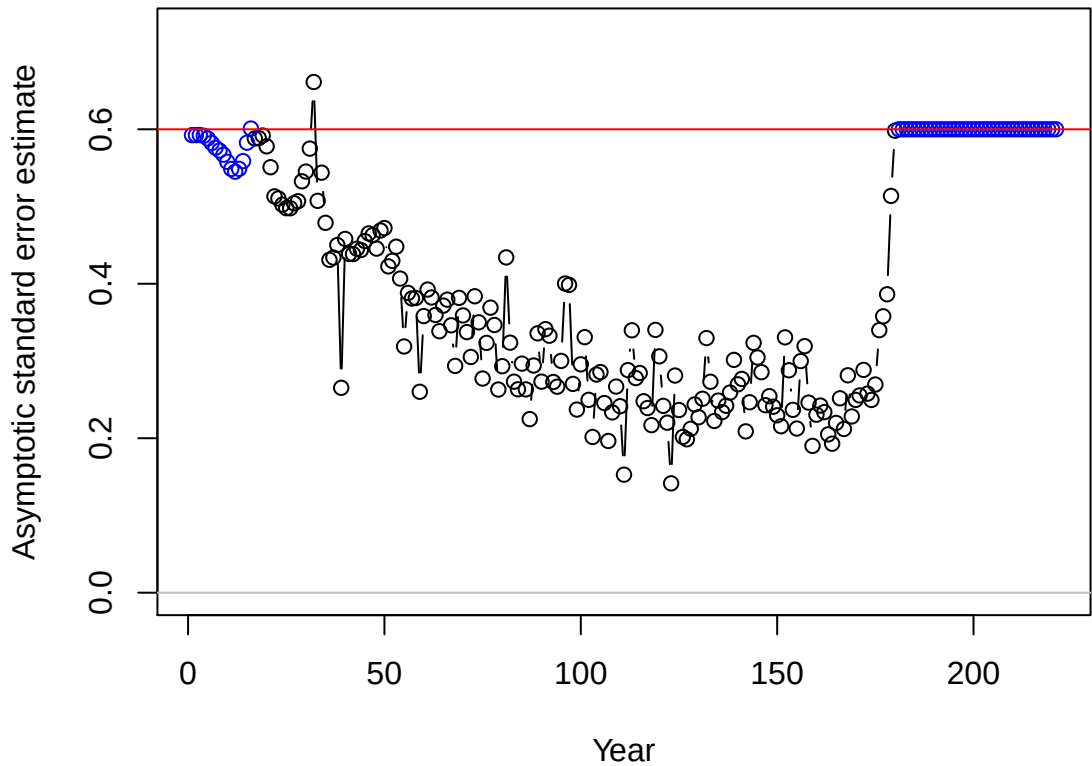


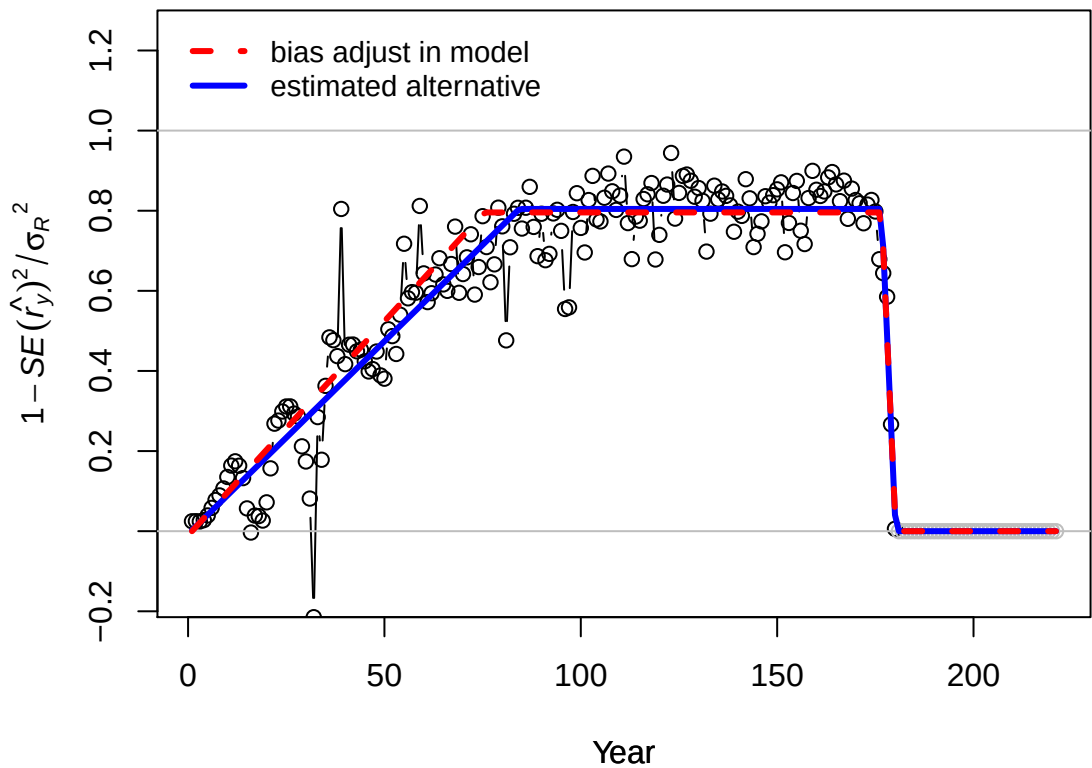
Log recruitment deviation



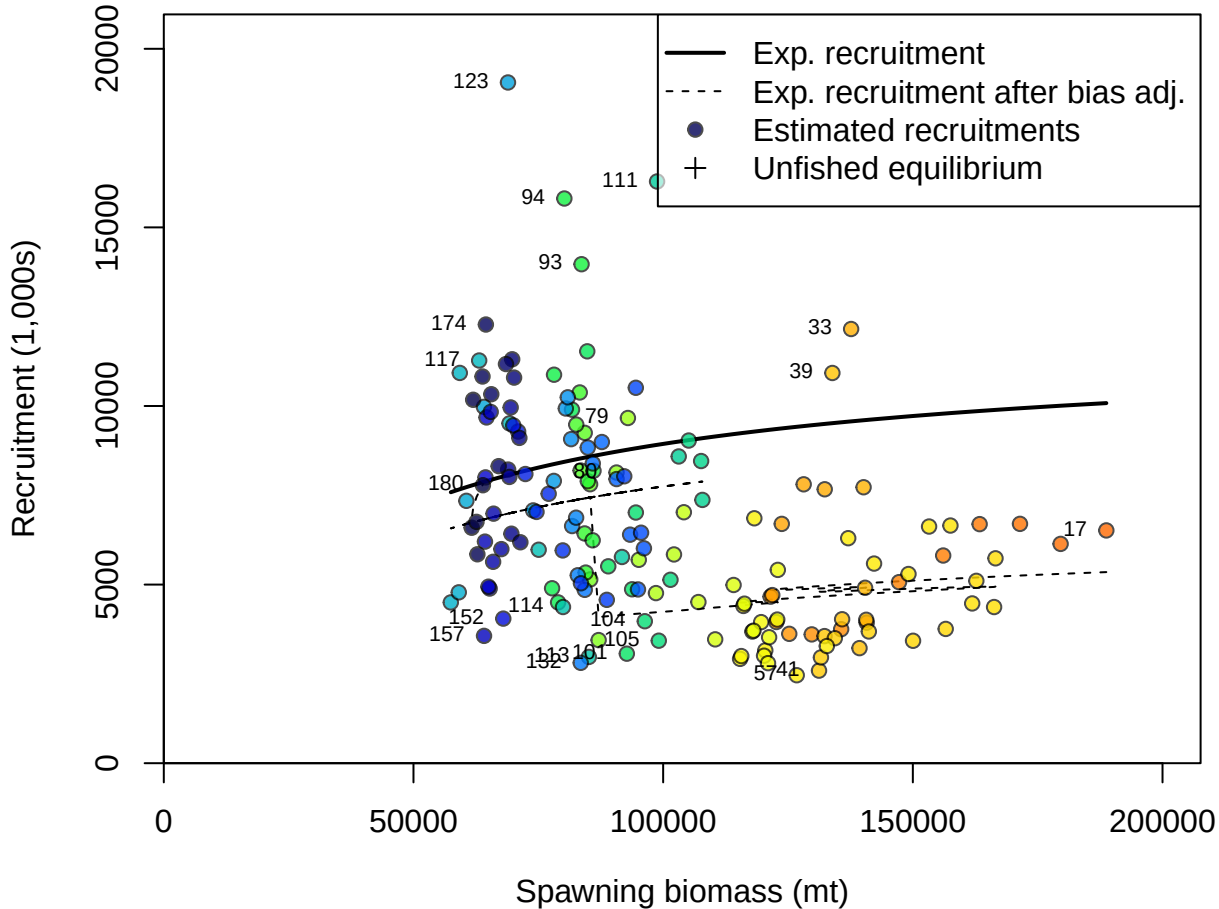


Recruitment deviation variance

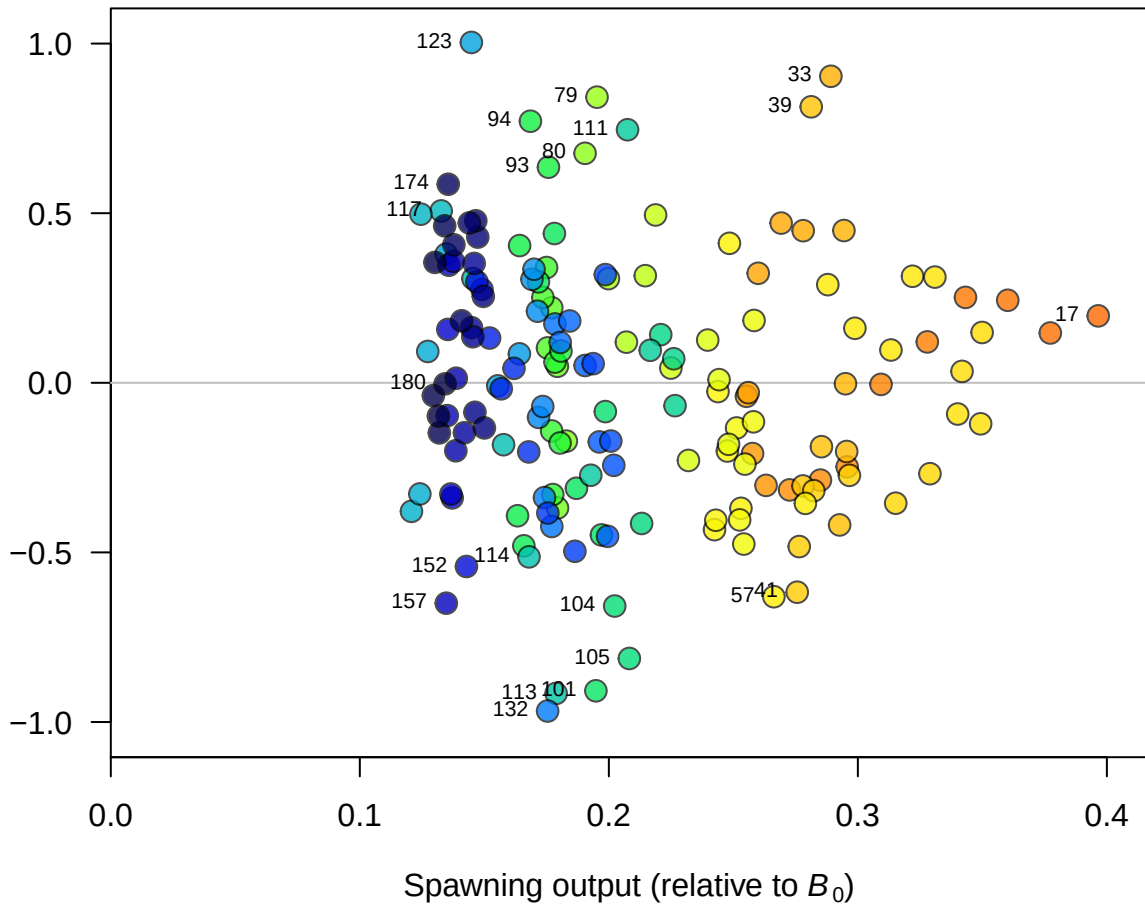


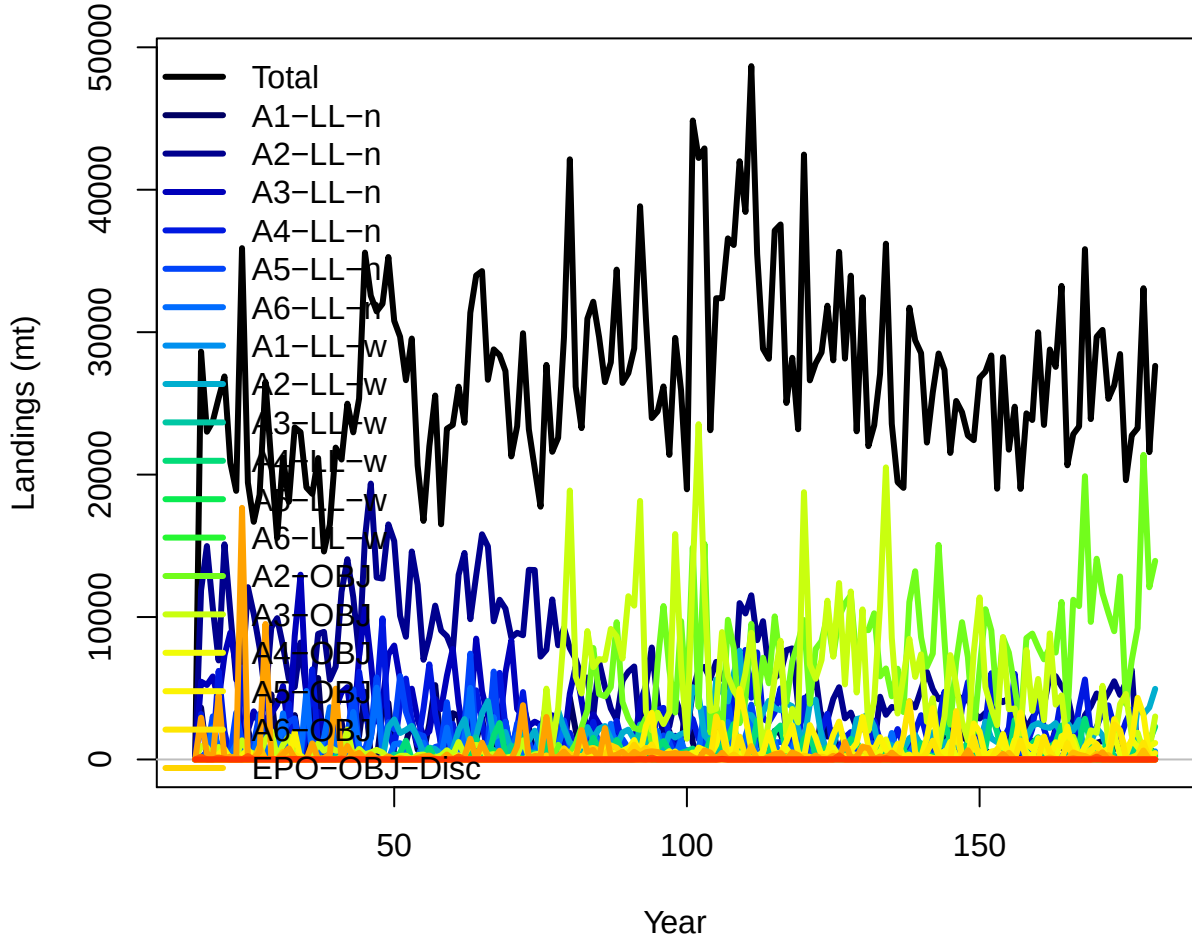






Log recruitment deviation





Landings (mt)

A1-LL-n
A2-LL-n
A3-LL-n
A4-LL-n
A5-LL-n
A6-LL-n
A1-LL-w
A2-LL-w
A3-LL-w
A4-LL-w
A5-LL-w
A6-LL-w
A1-OBJ
A2-OBJ
A3-OBJ
A4-OBJ
A5-OBJ
A6-OBJ
EPQ-OBJ
AD-ADBE

Year

20 40 60 80 100 120 140 160 180

Observed and expected Landings (mt)

20000
15000
10000
5000
0

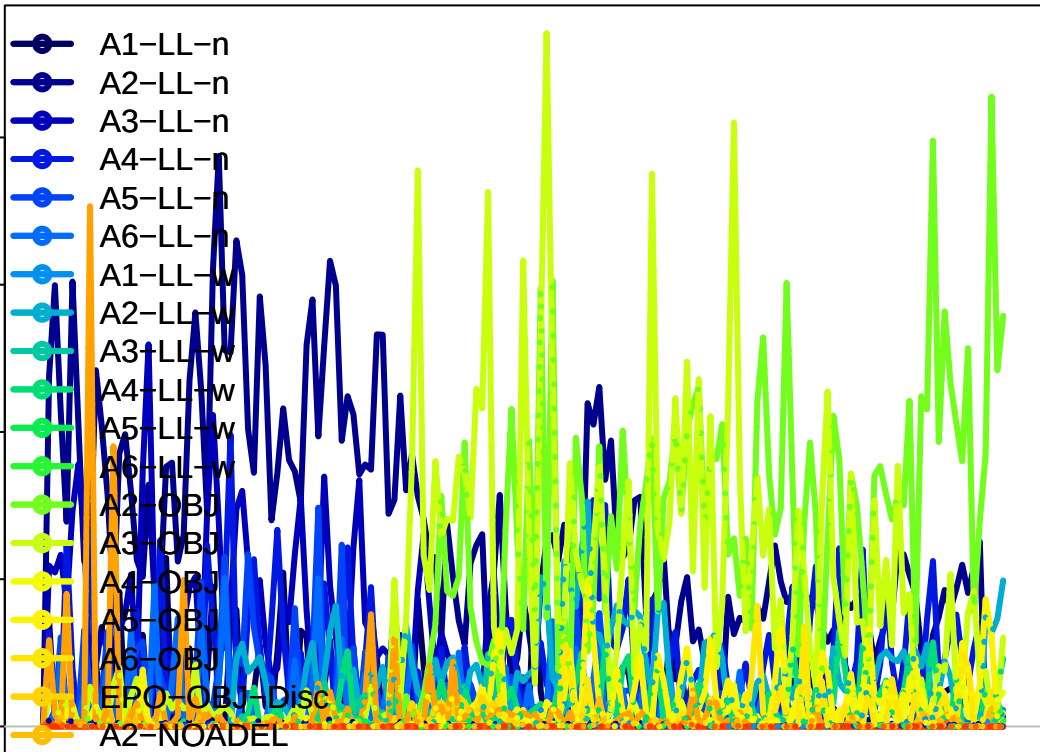
- A1-LL-n
- A2-LL-n
- A3-LL-n
- A4-LL-n
- A5-LL-n
- A6-LL-n
- A1-LL-w
- A2-LL-w
- A3-LL-w
- A4-LL-w
- A5-LL-w
- A6-LL-w
- A2-OBJ
- A3-OBJ
- A4-OBJ
- A5-OBJ
- A6-OBJ
- EPO-OBJ-Disc
- A2-NOADEL

50

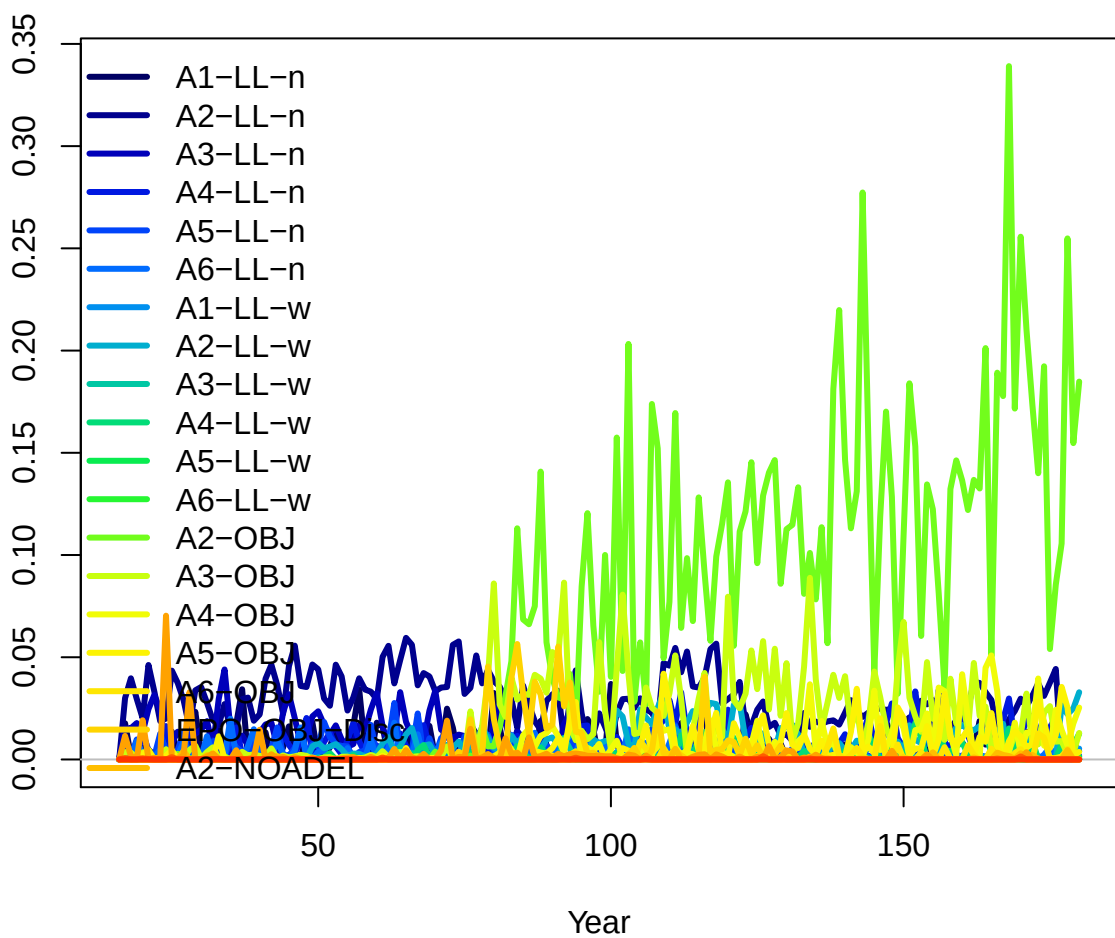
100

150

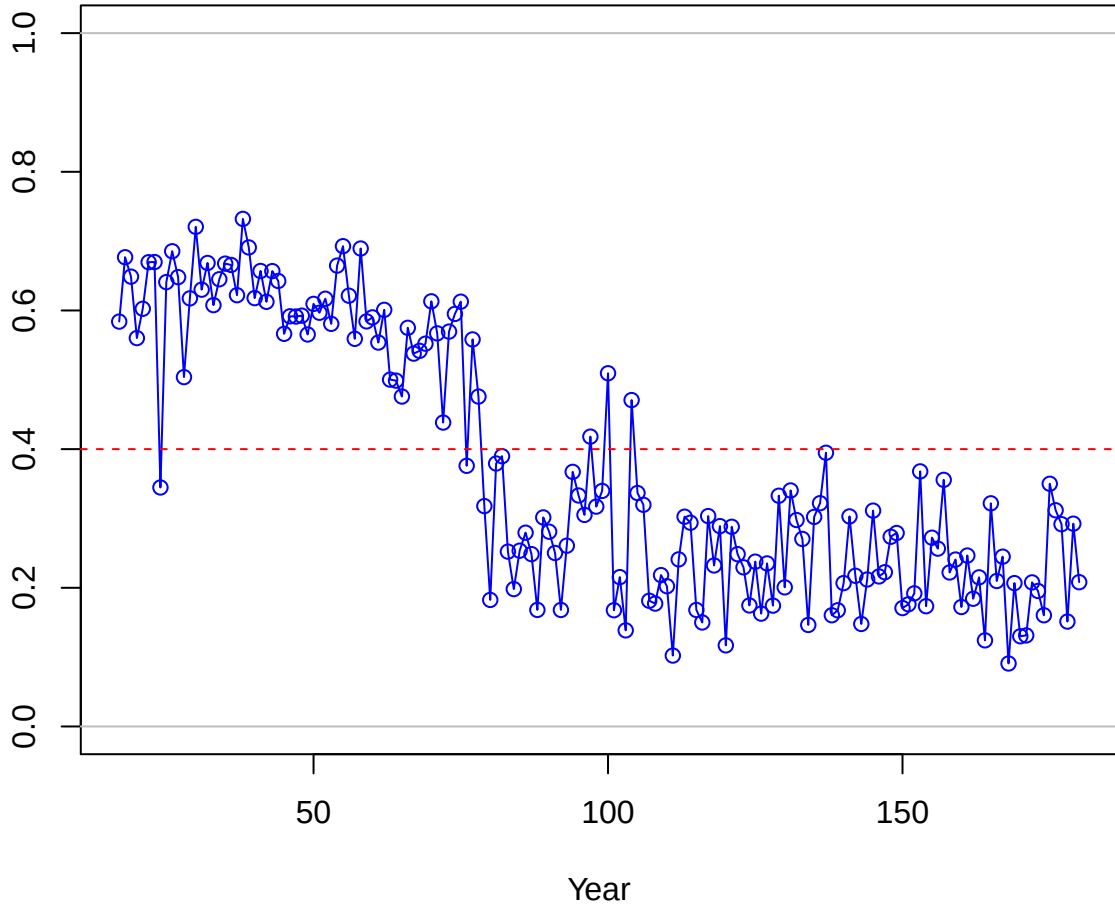
Year



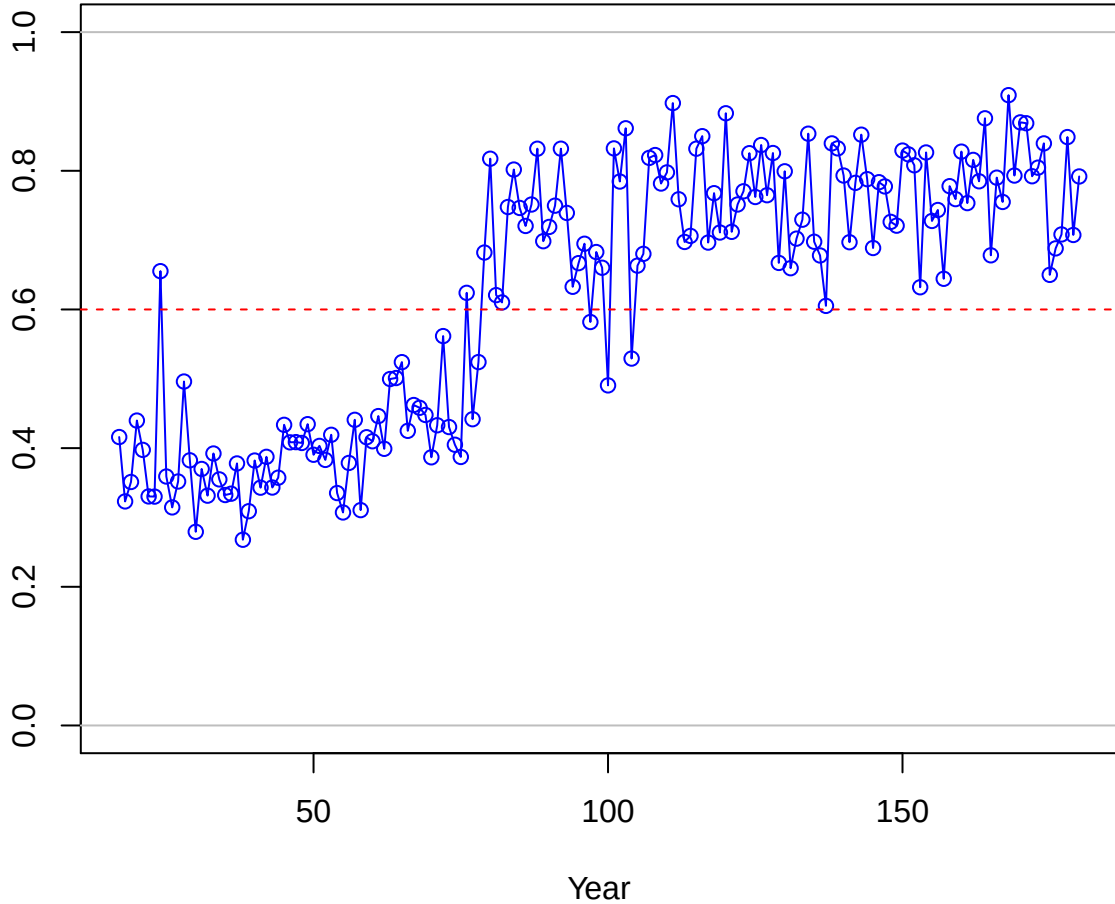
Continuous F

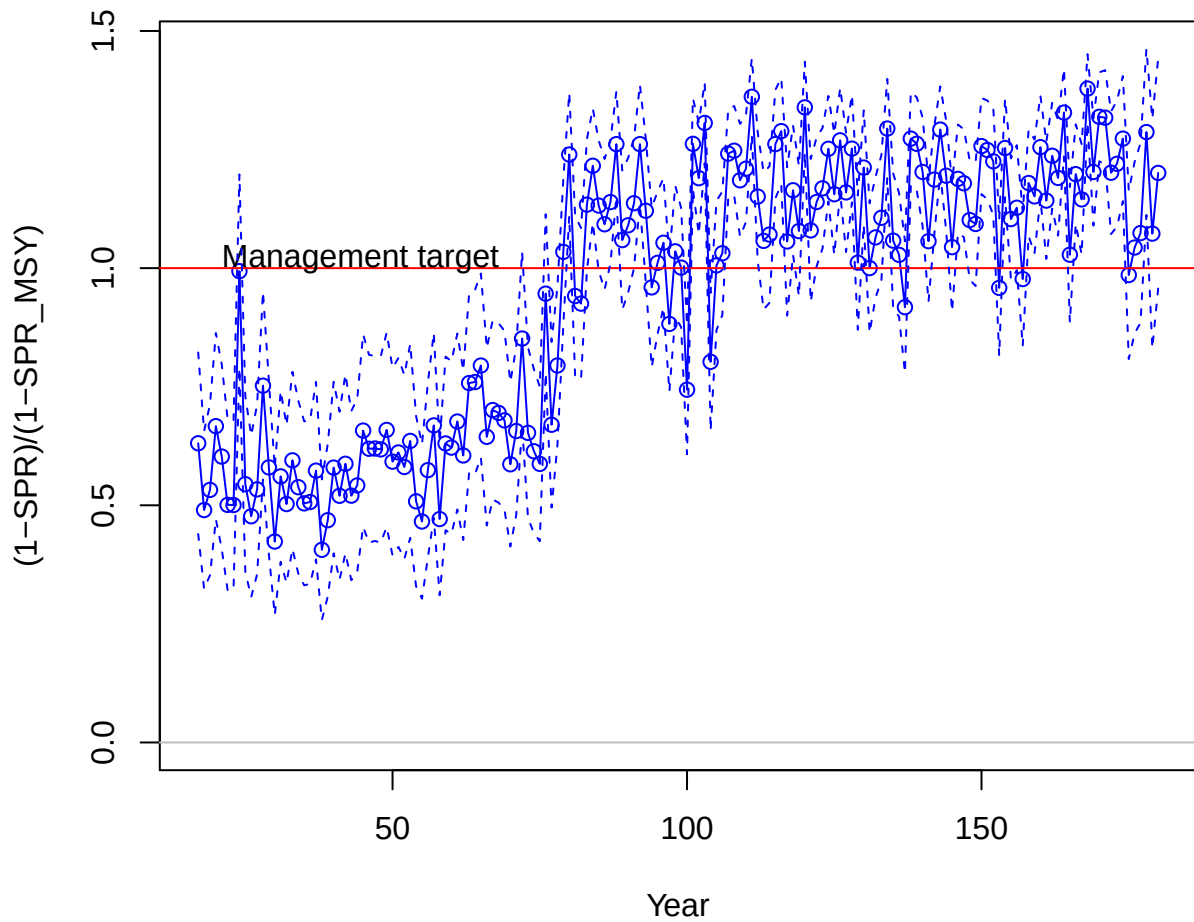


SPR



1-SPR





Index

0
1000
2000
3000
4000
5000

20

30

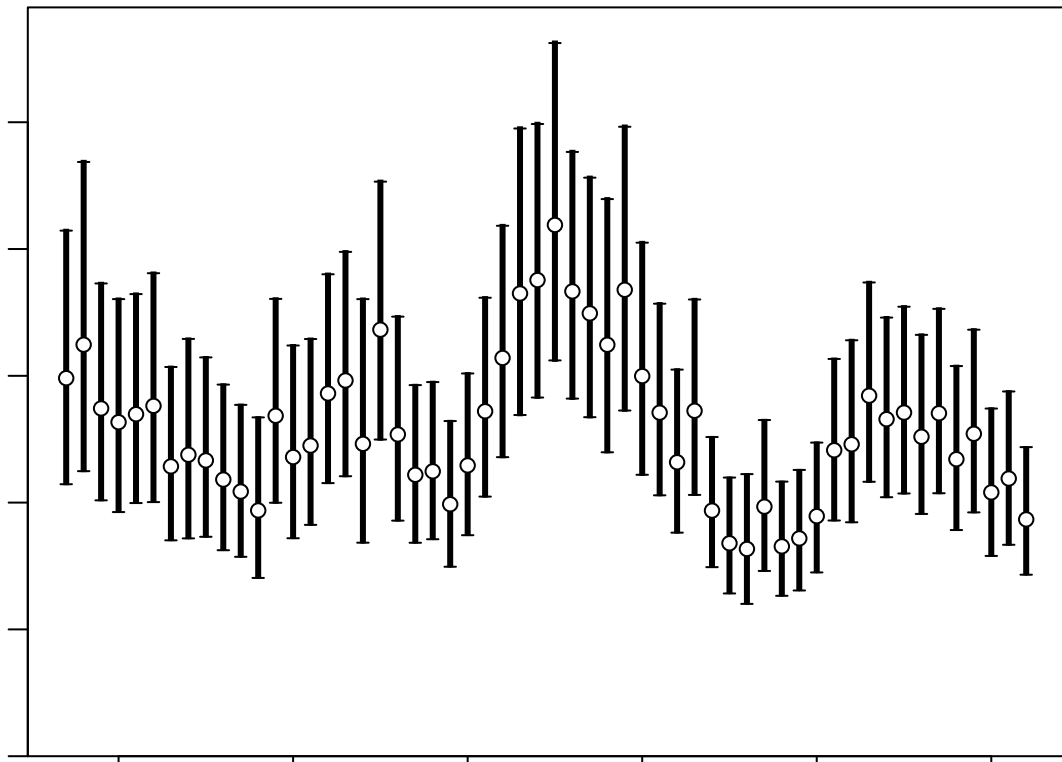
40

50

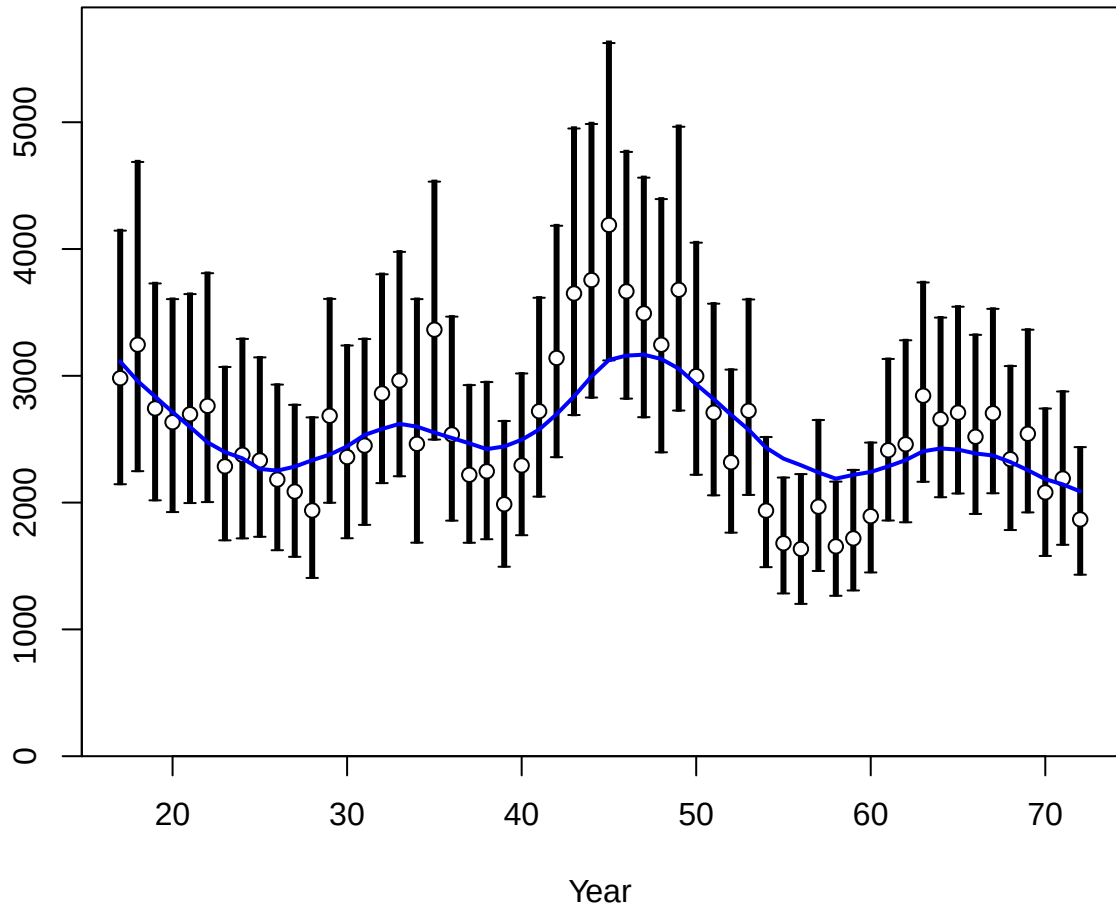
60

70

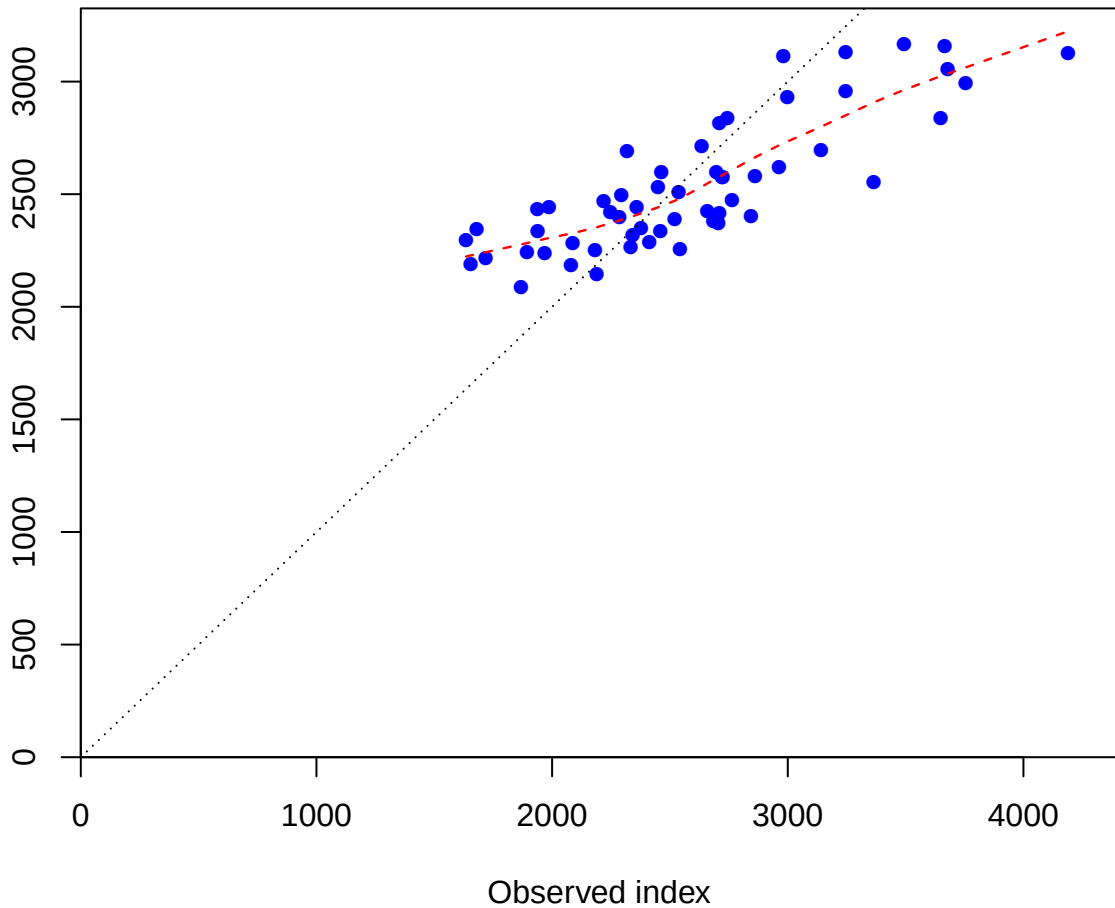
Year



Index



Expected index



Log index

8.5

8.0

7.5

20

30

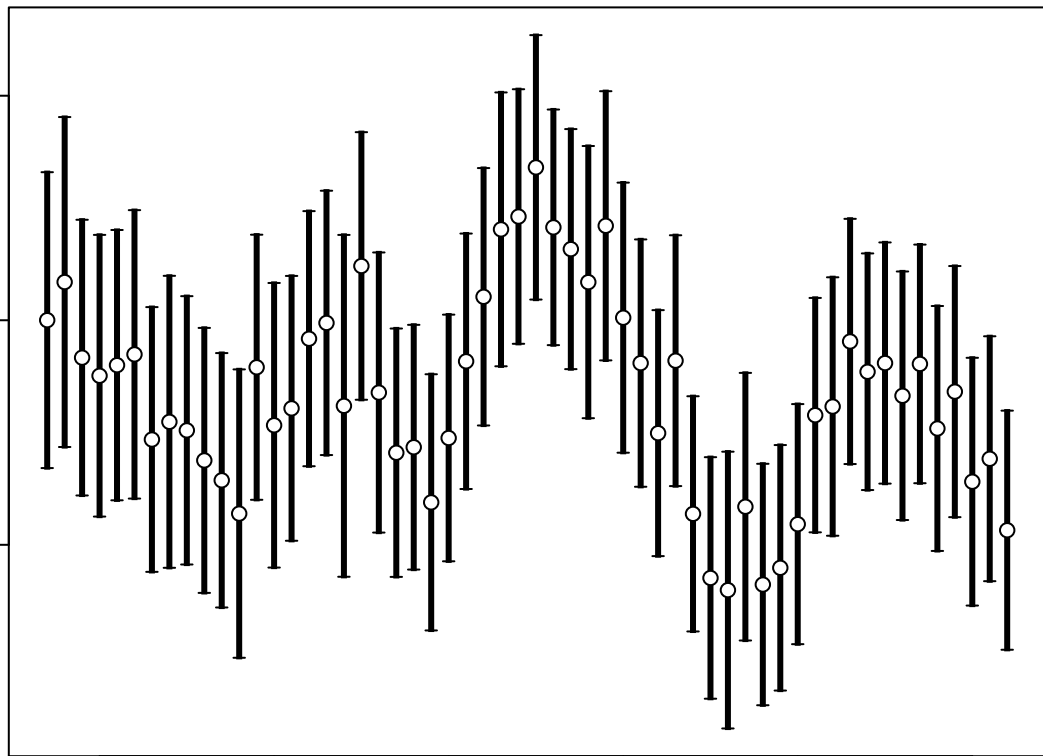
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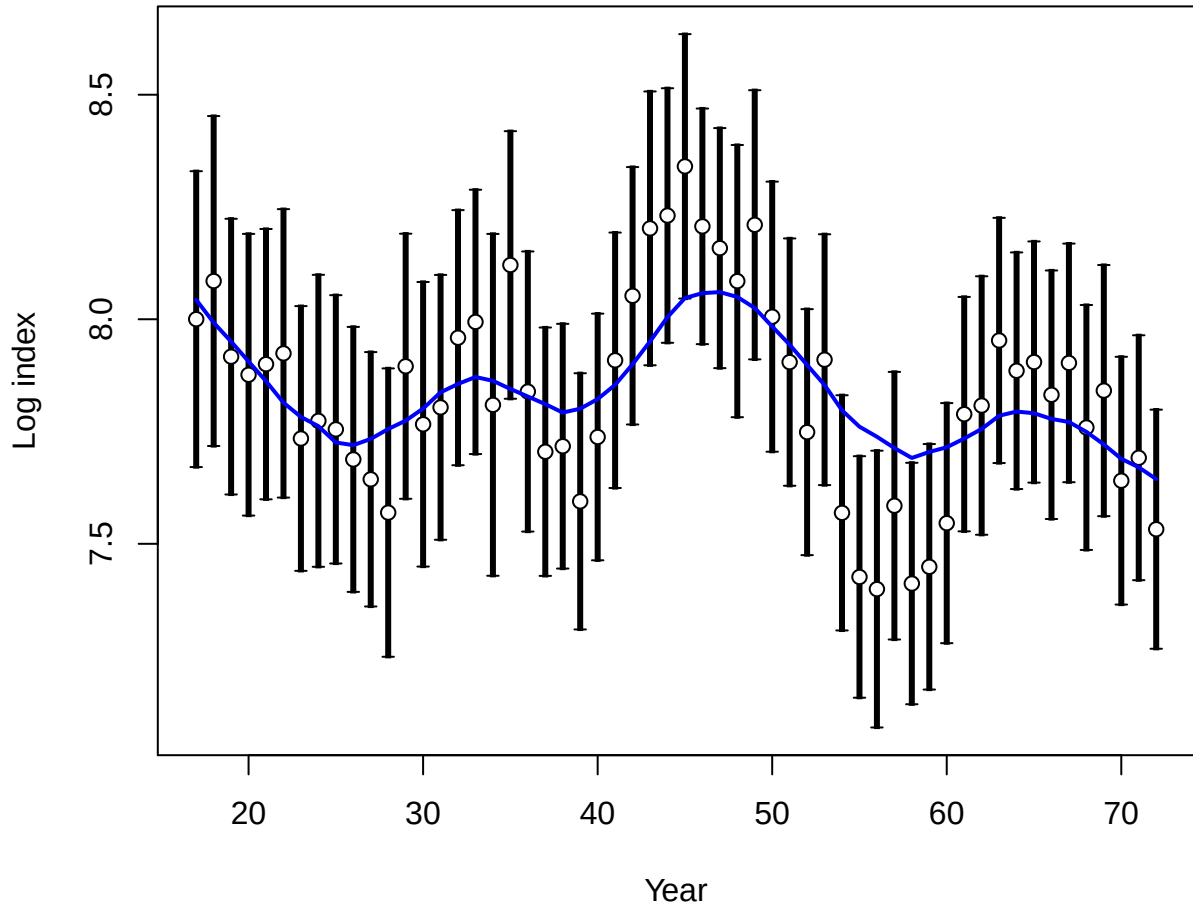
50

60

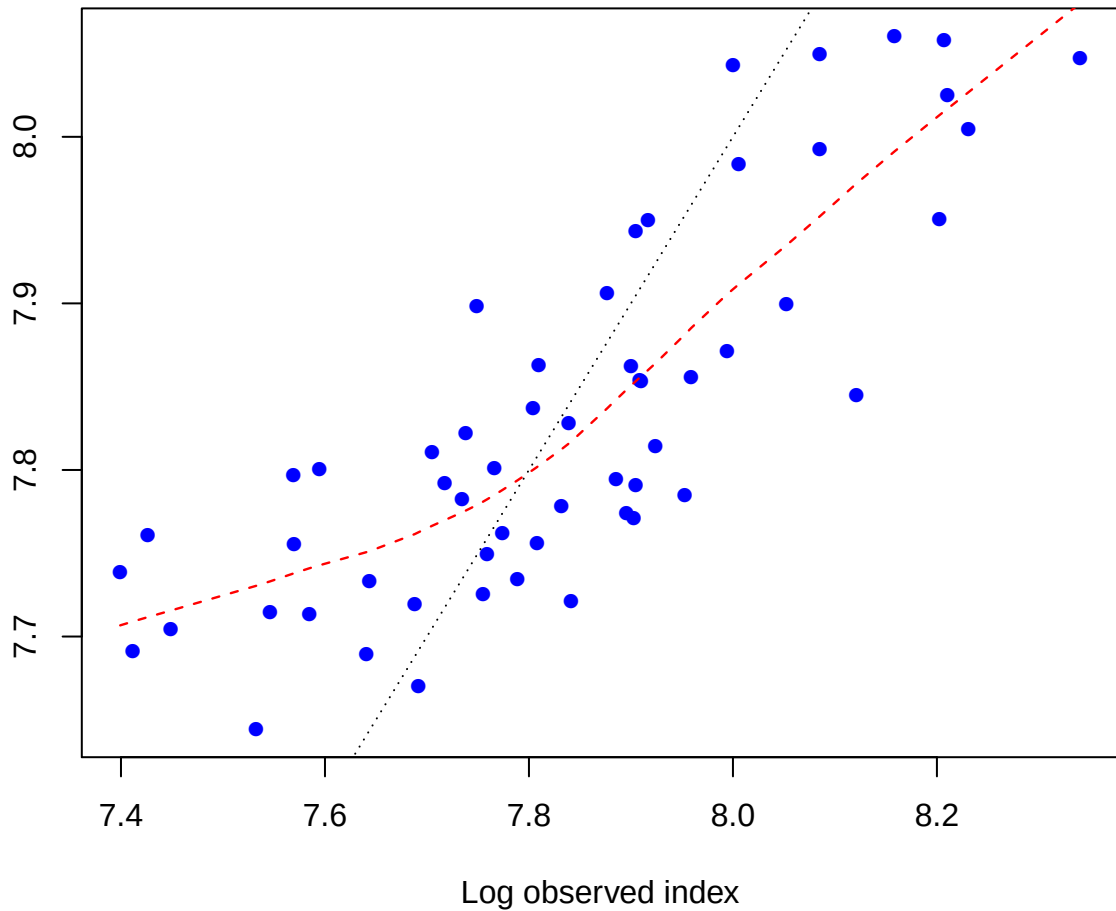
70

Year





Log expected index



Residual

2
1
0
-1
-2

20

30

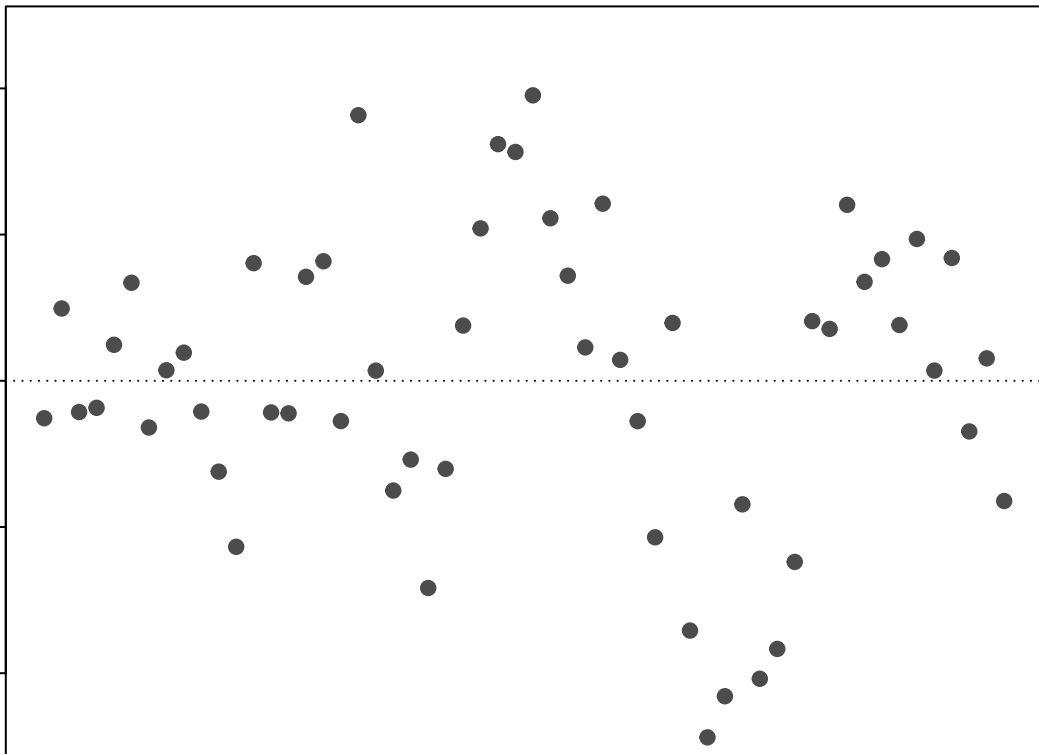
40

50

60

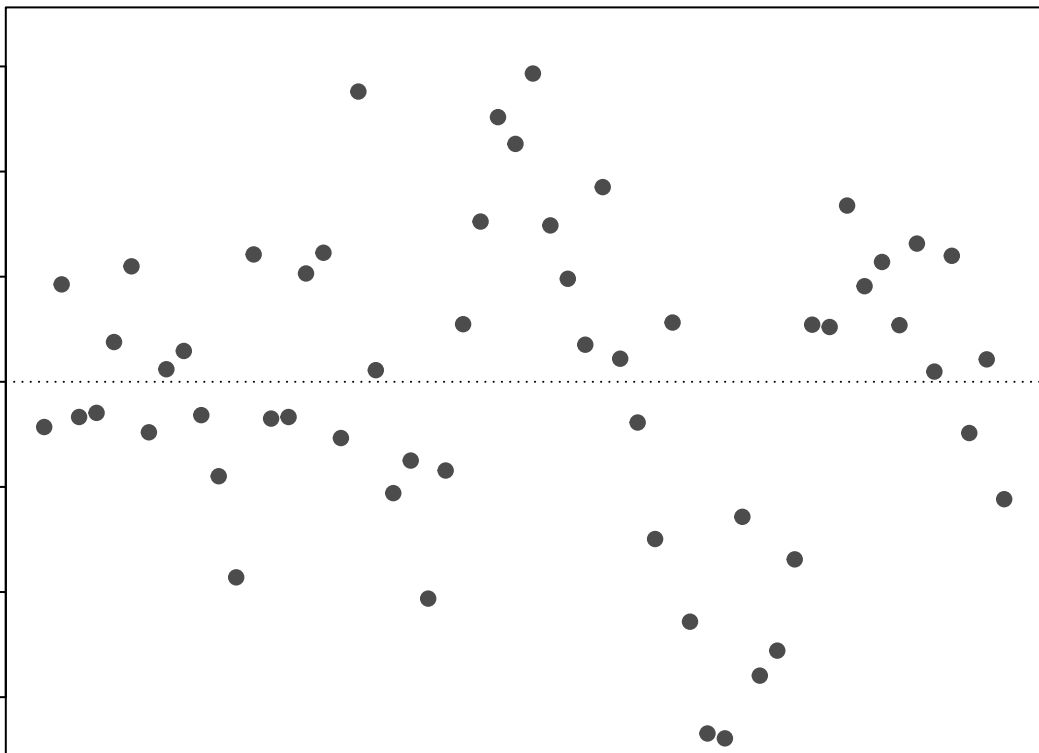
70

Year

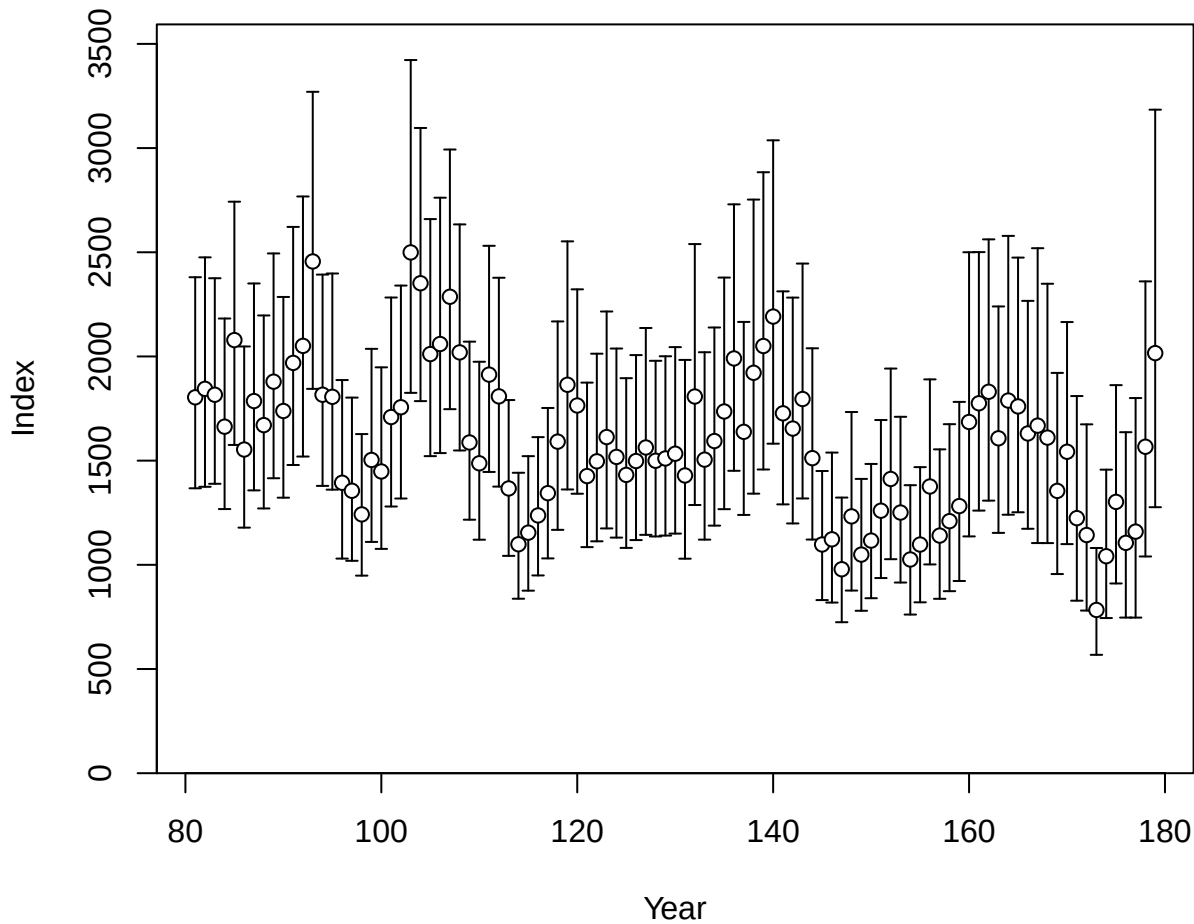


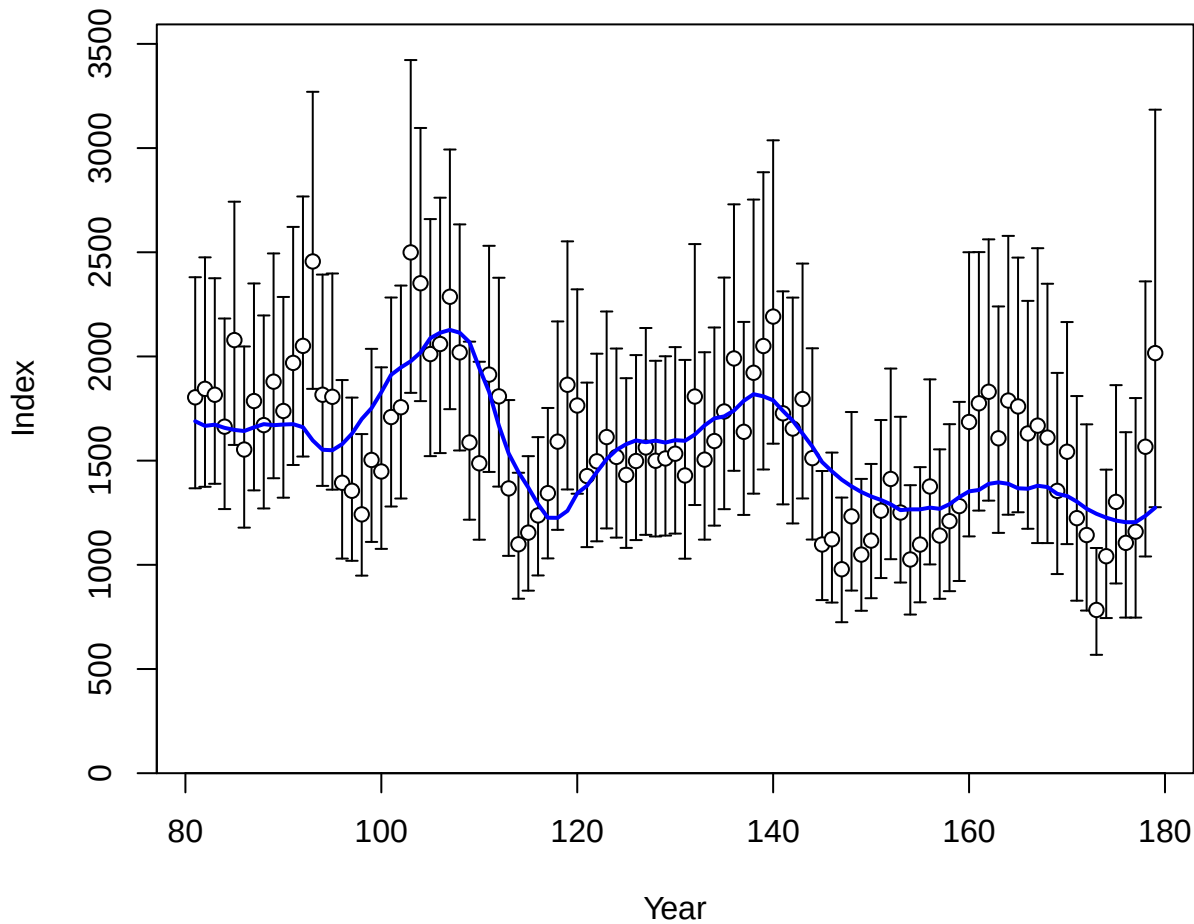
Deviation

0.3
0.2
0.1
0.0
-0.1
-0.2
-0.3

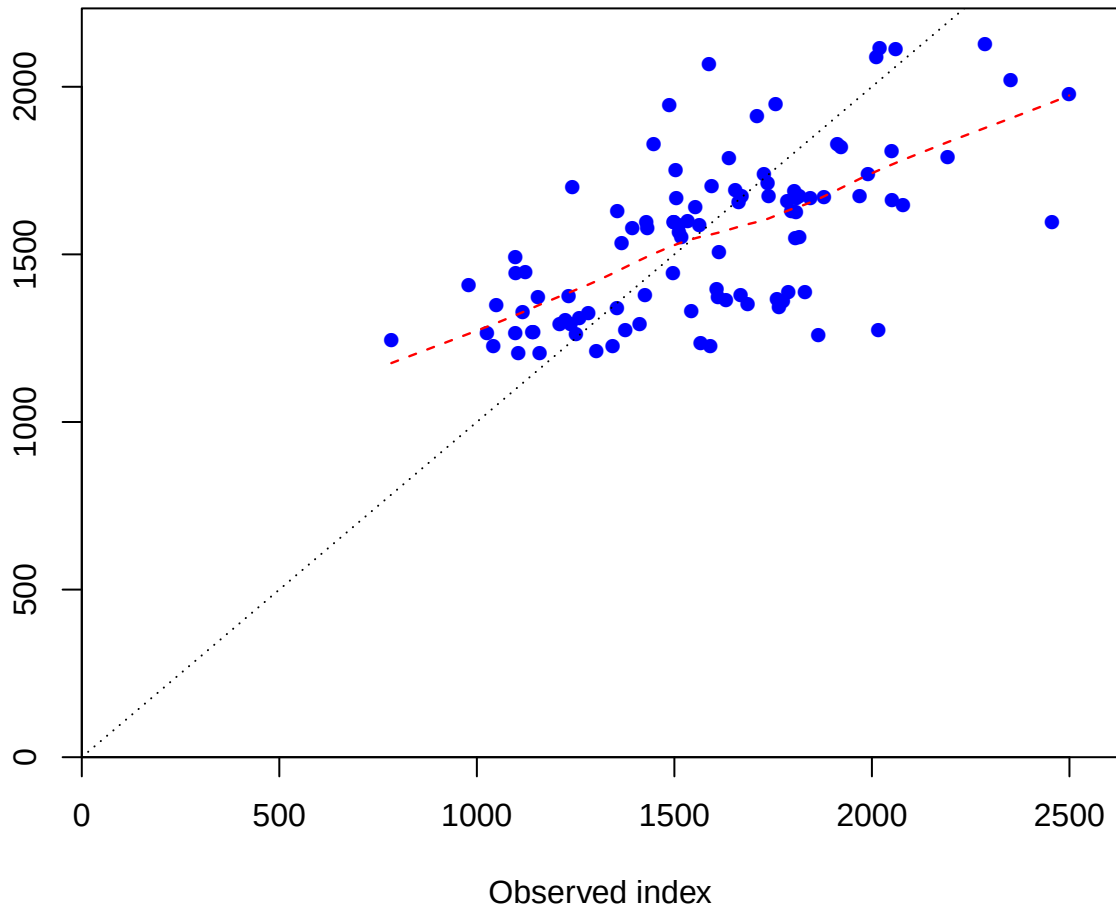


Year





Expected index



Log index

8.0
7.5
7.0
6.5

80

100

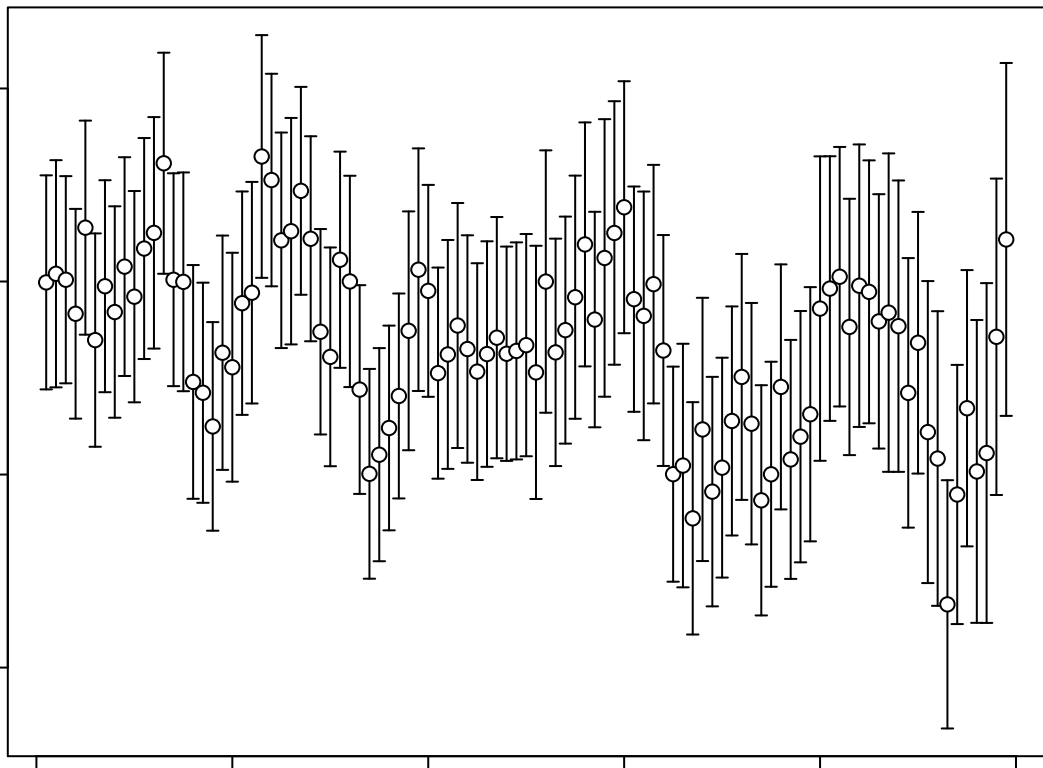
120

140

160

180

Year



Log index

8.0
7.5
7.0
6.5

80

100

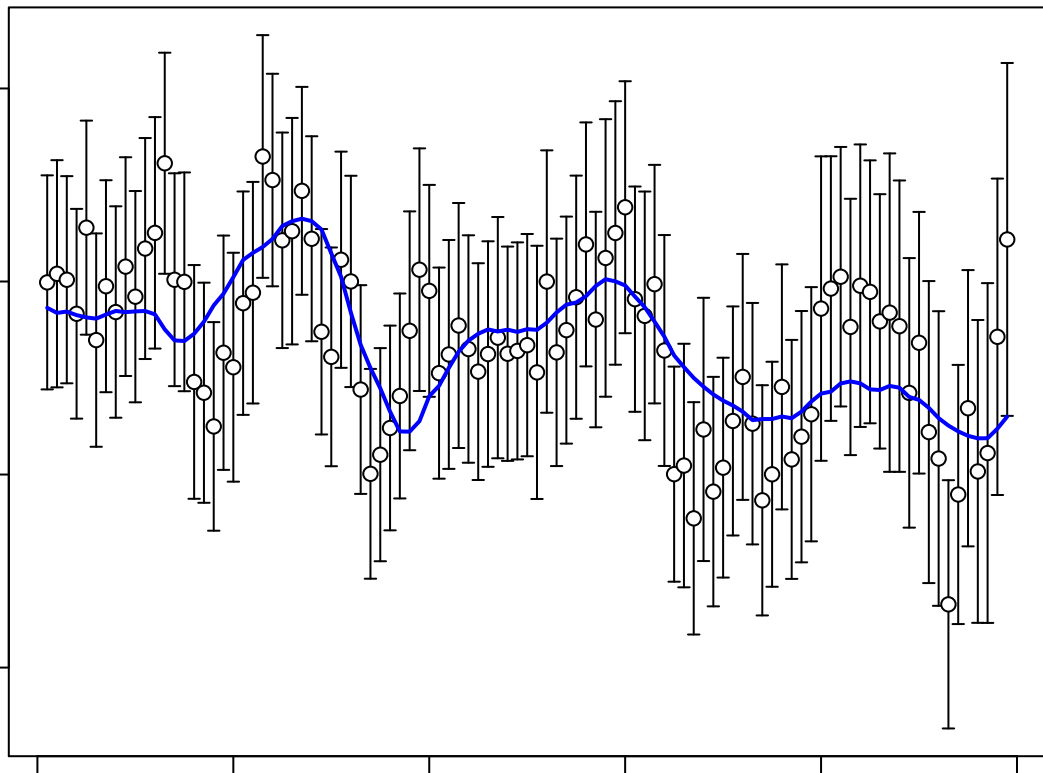
120

140

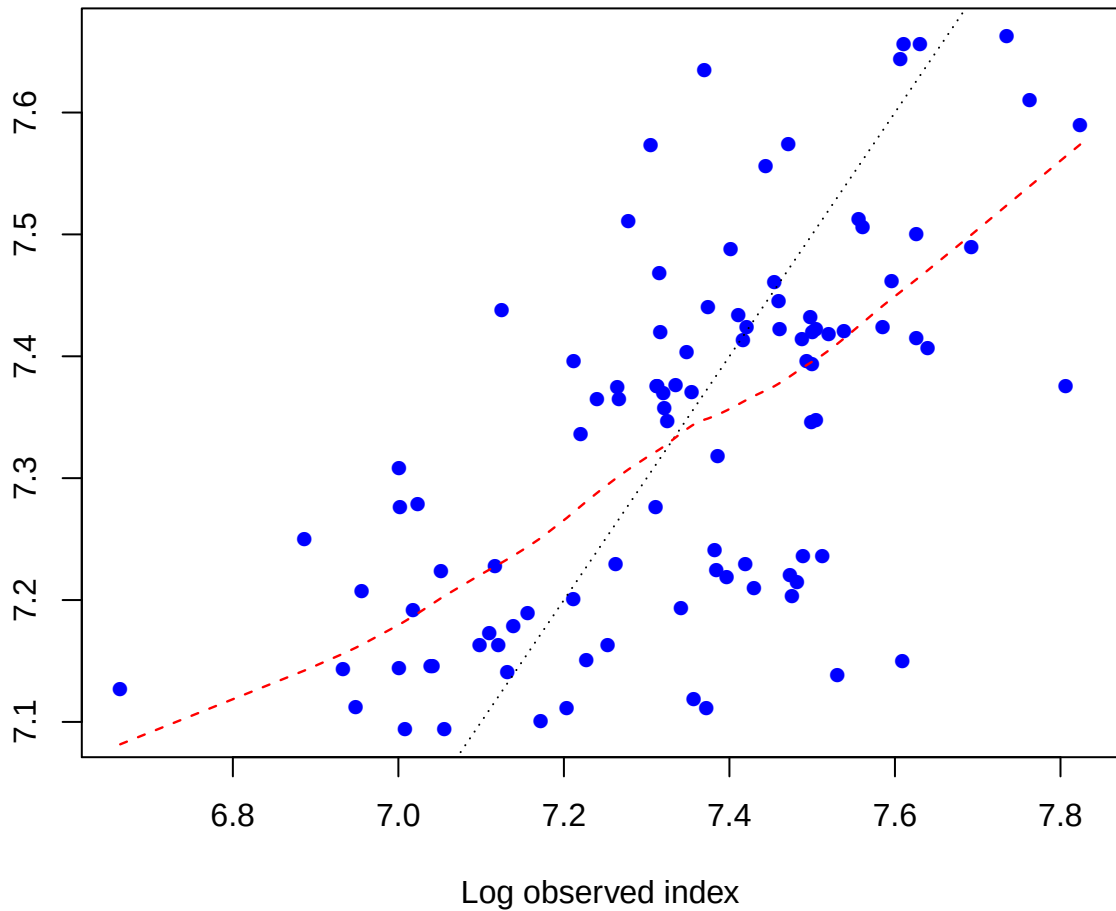
160

180

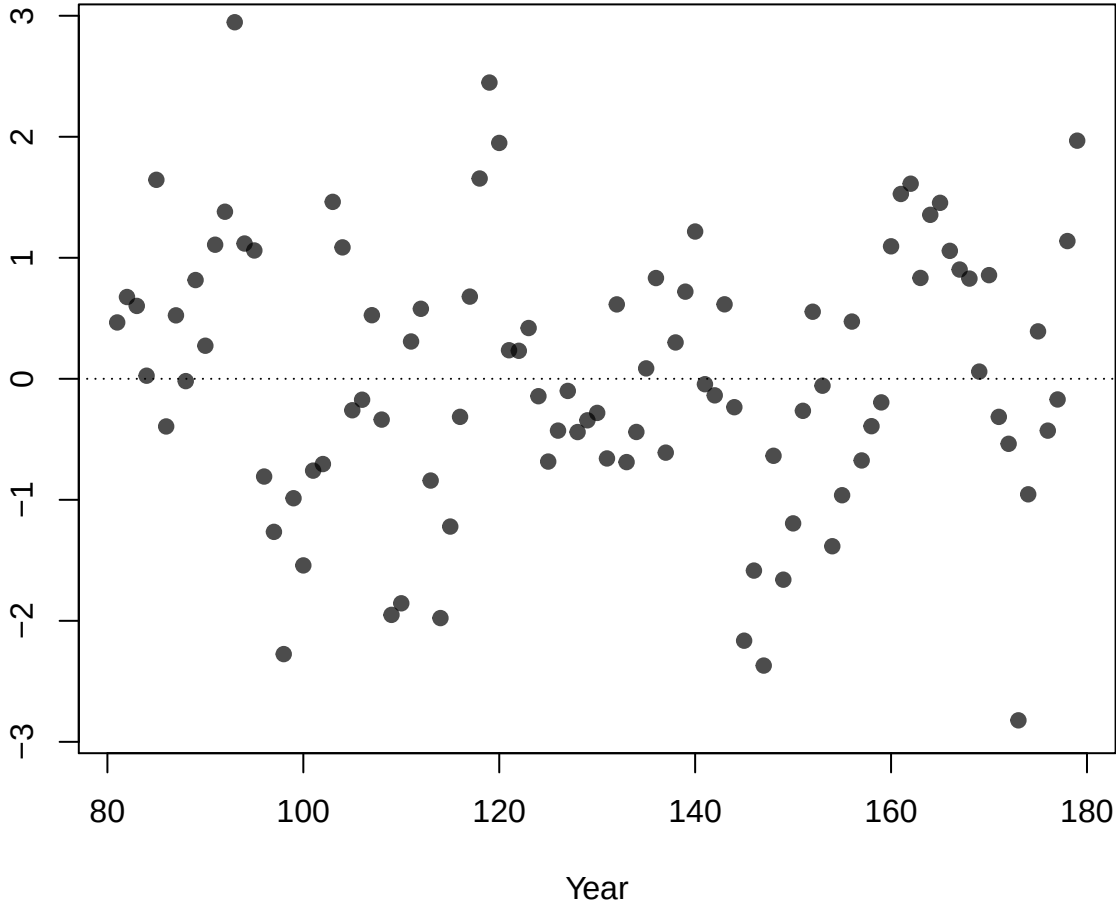
Year



Log expected index



Residual



Deviation

0.4
0.2
0.0
-0.2
-0.4

80

100

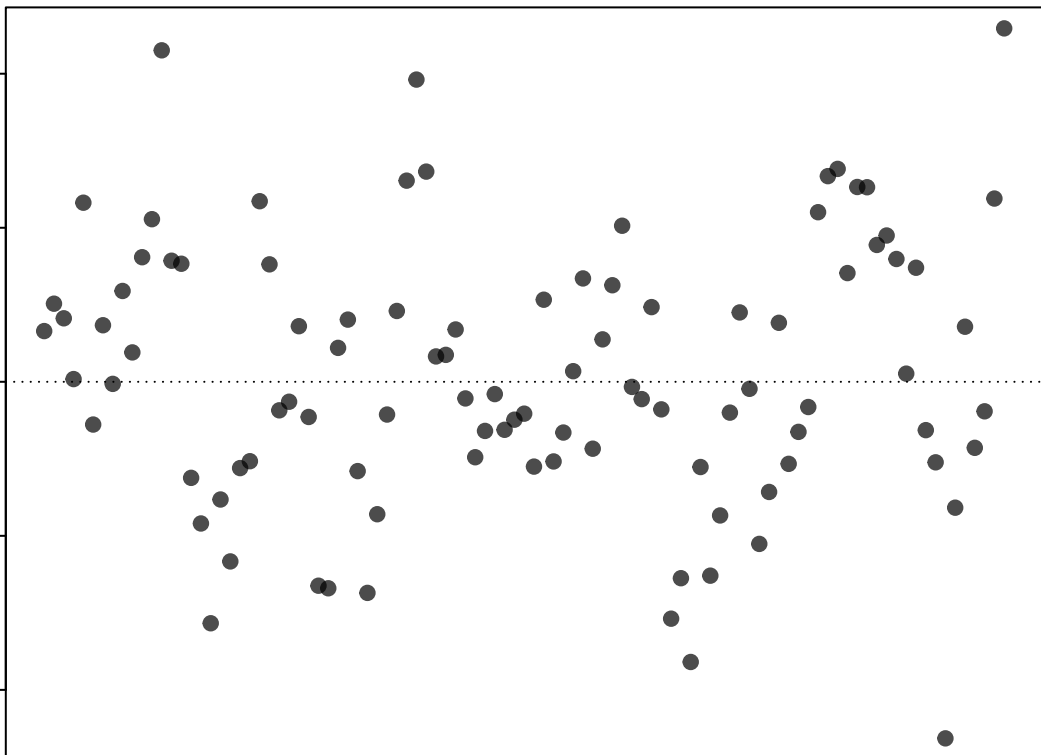
120

140

160

180

Year



Standardized index

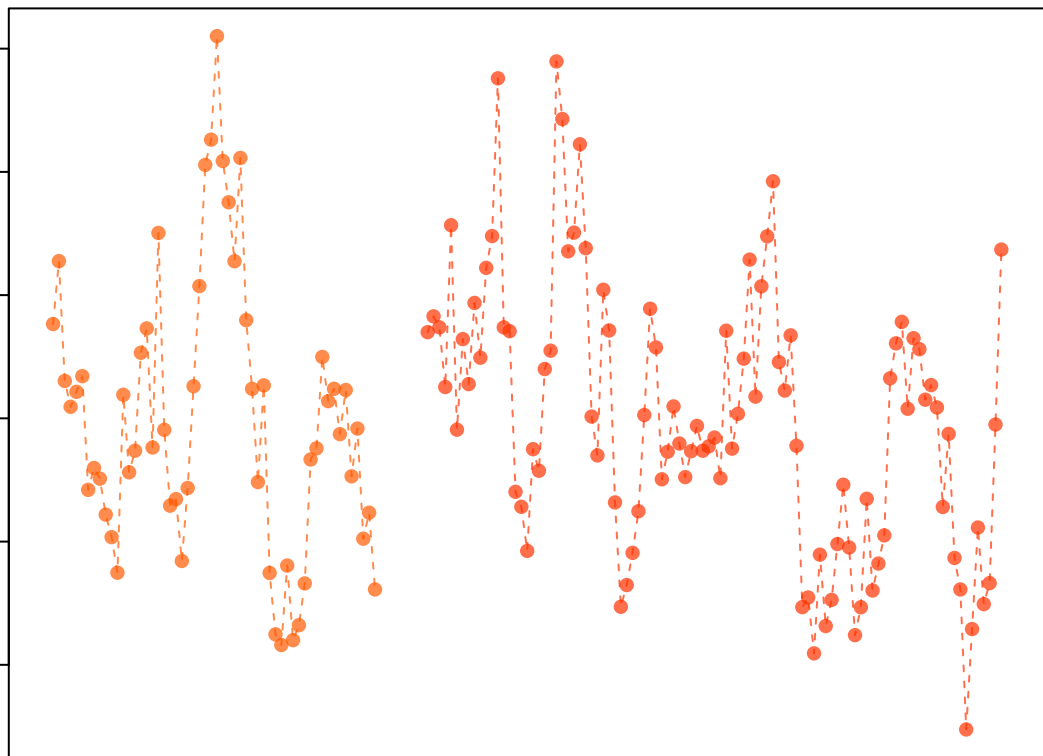
1.6
1.4
1.2
1.0
0.8
0.6

50

Year

100

150



Age

• 0.1 5 10

40

30

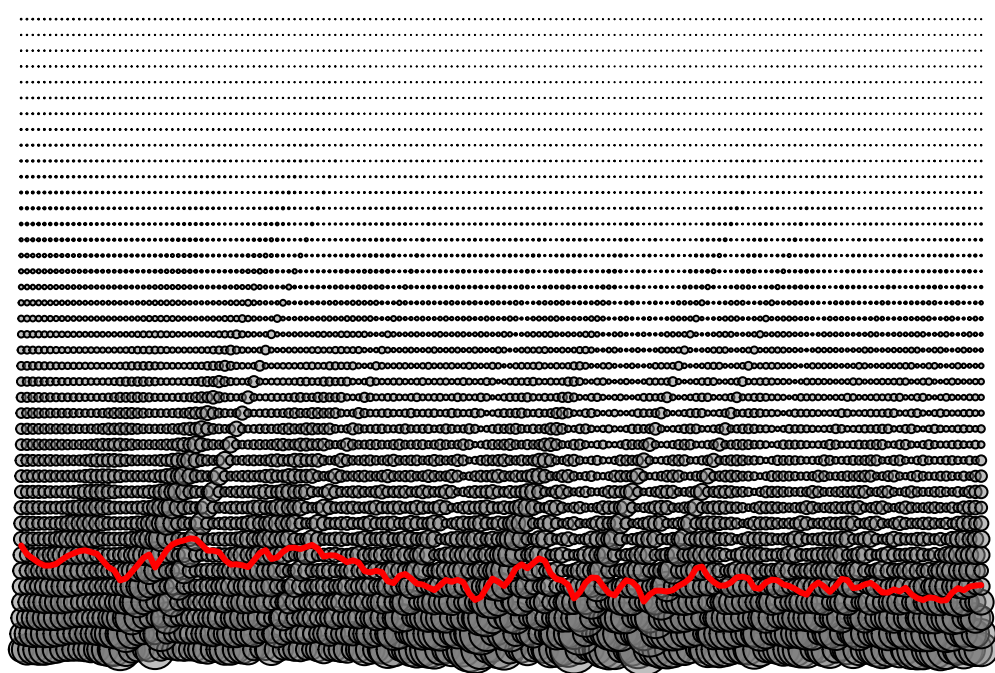
20

10

0

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

Year



Age

40

30

20

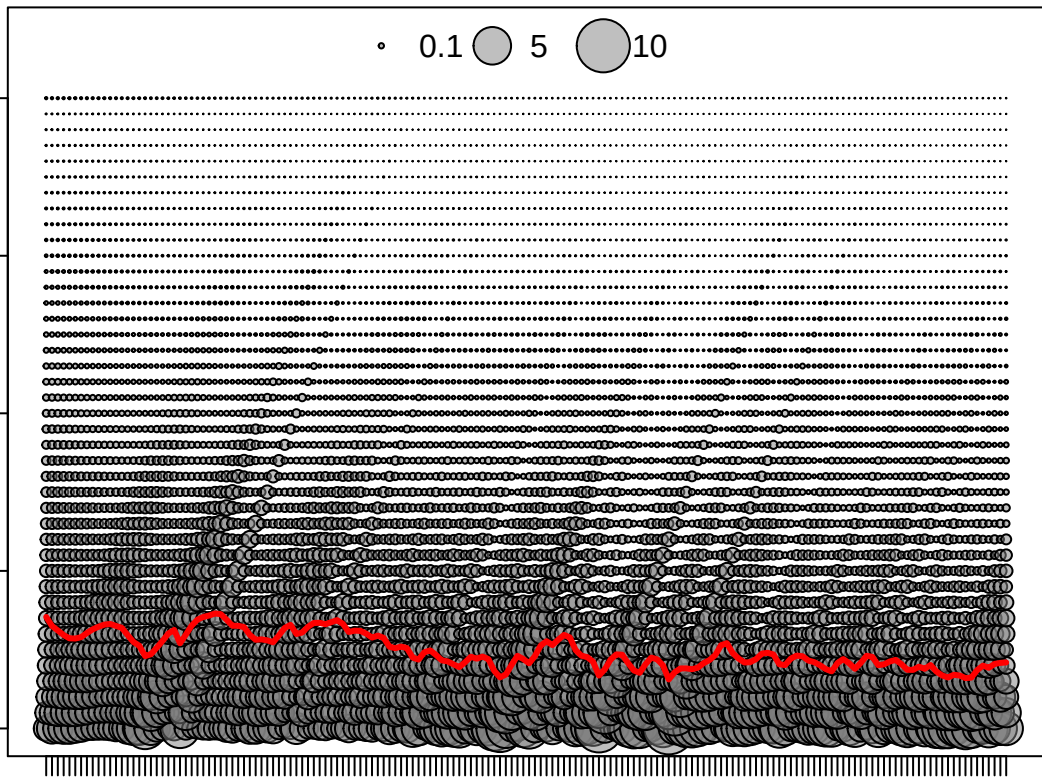
10

0

• 0.1 5 10

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

Year



Mean age (yr)

6

4

2

0

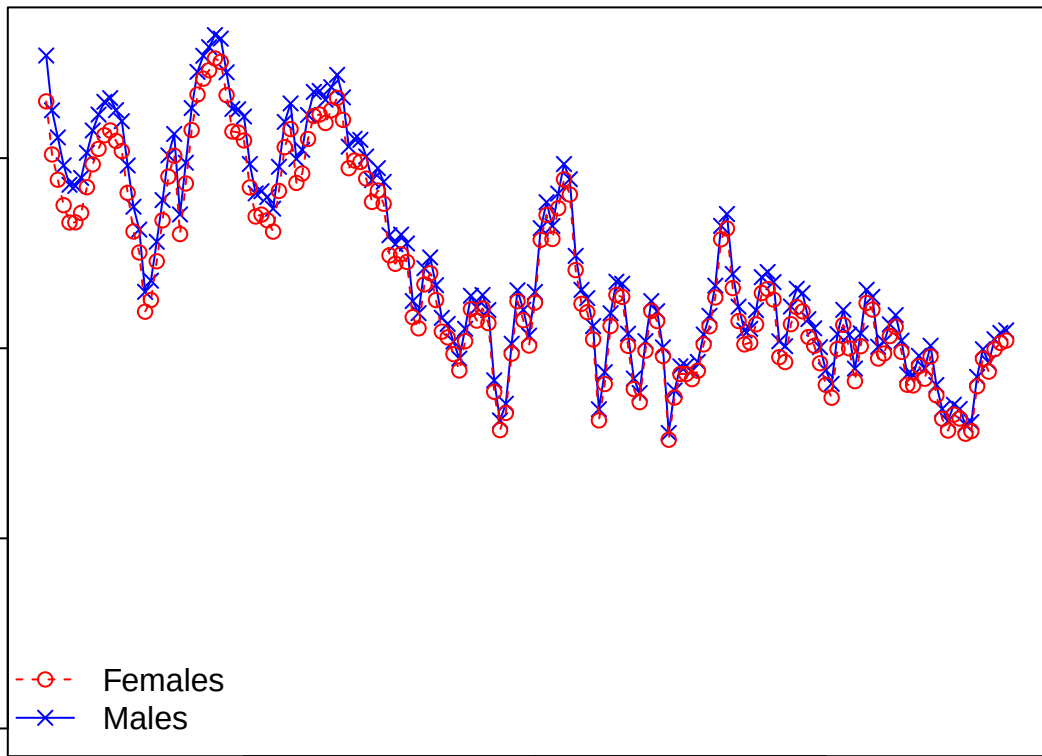
-o- Females
-x- Males

50

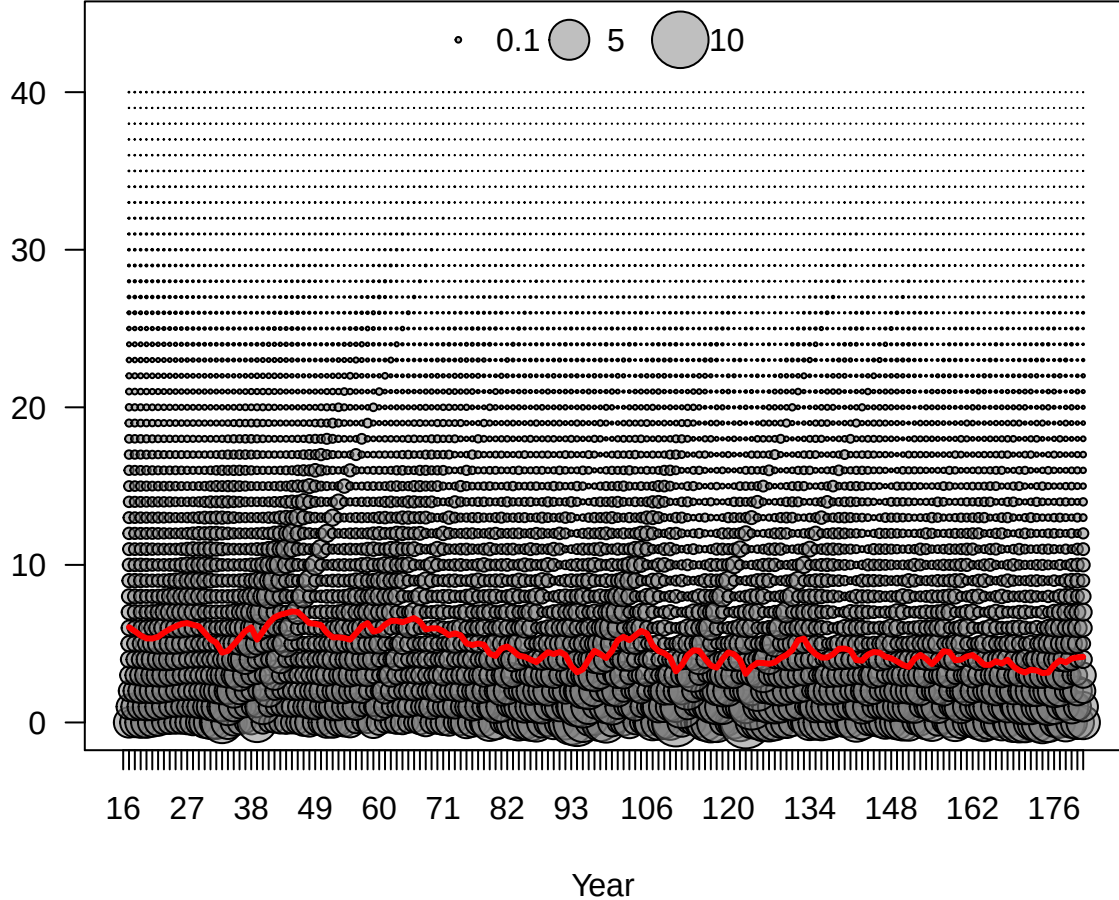
100

150

Year



Age



Age

• 0.1 5 10

40

30

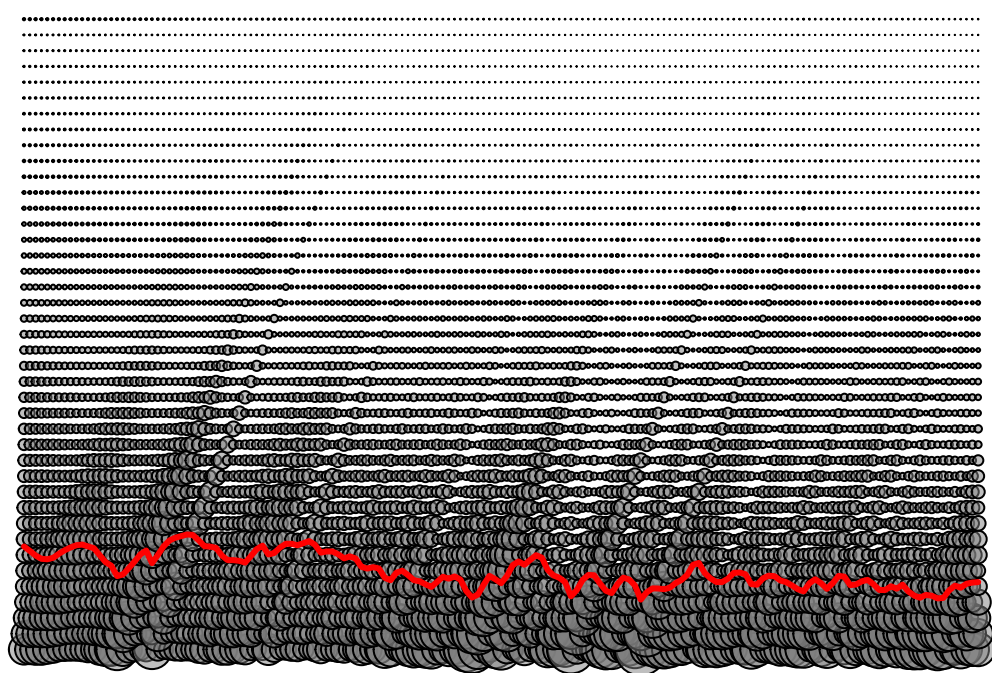
20

10

0

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

Year



Mean age (yr)

6

4

2

0

-○- Females

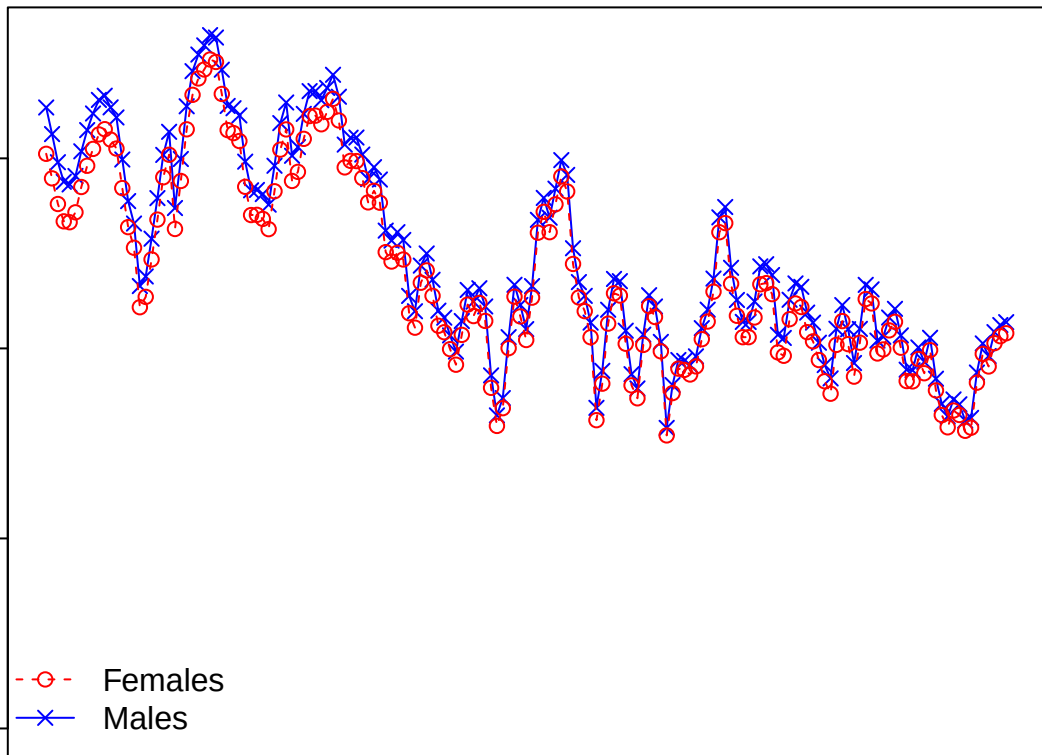
-×- Males

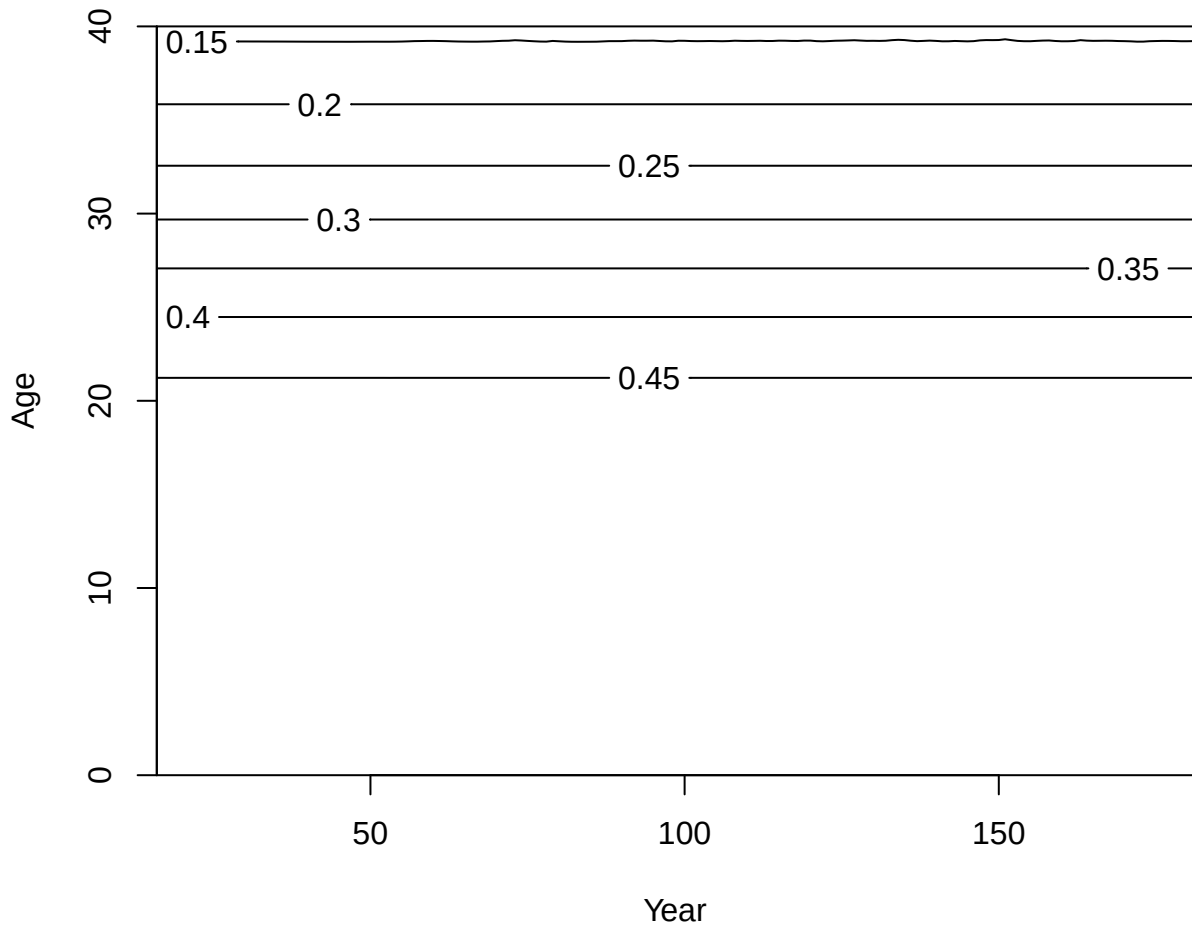
50

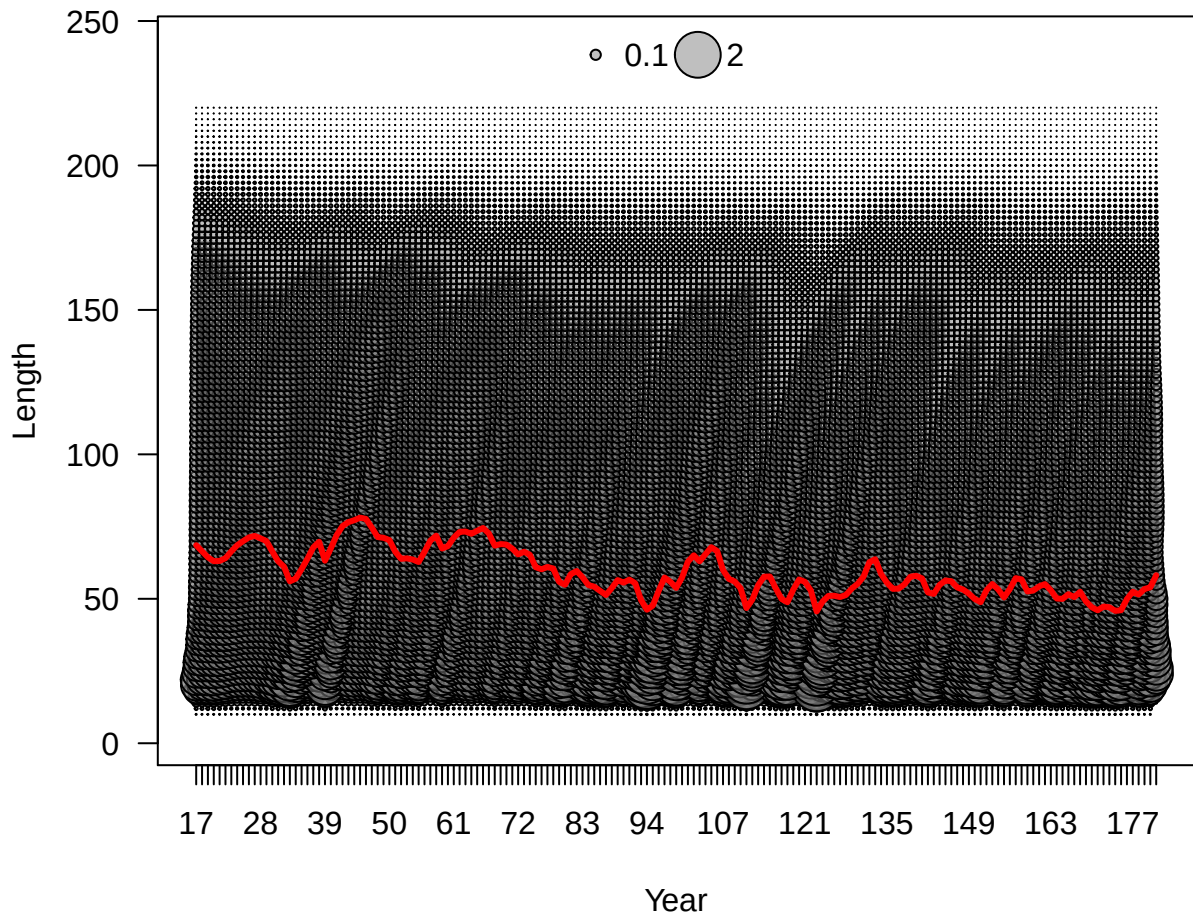
100

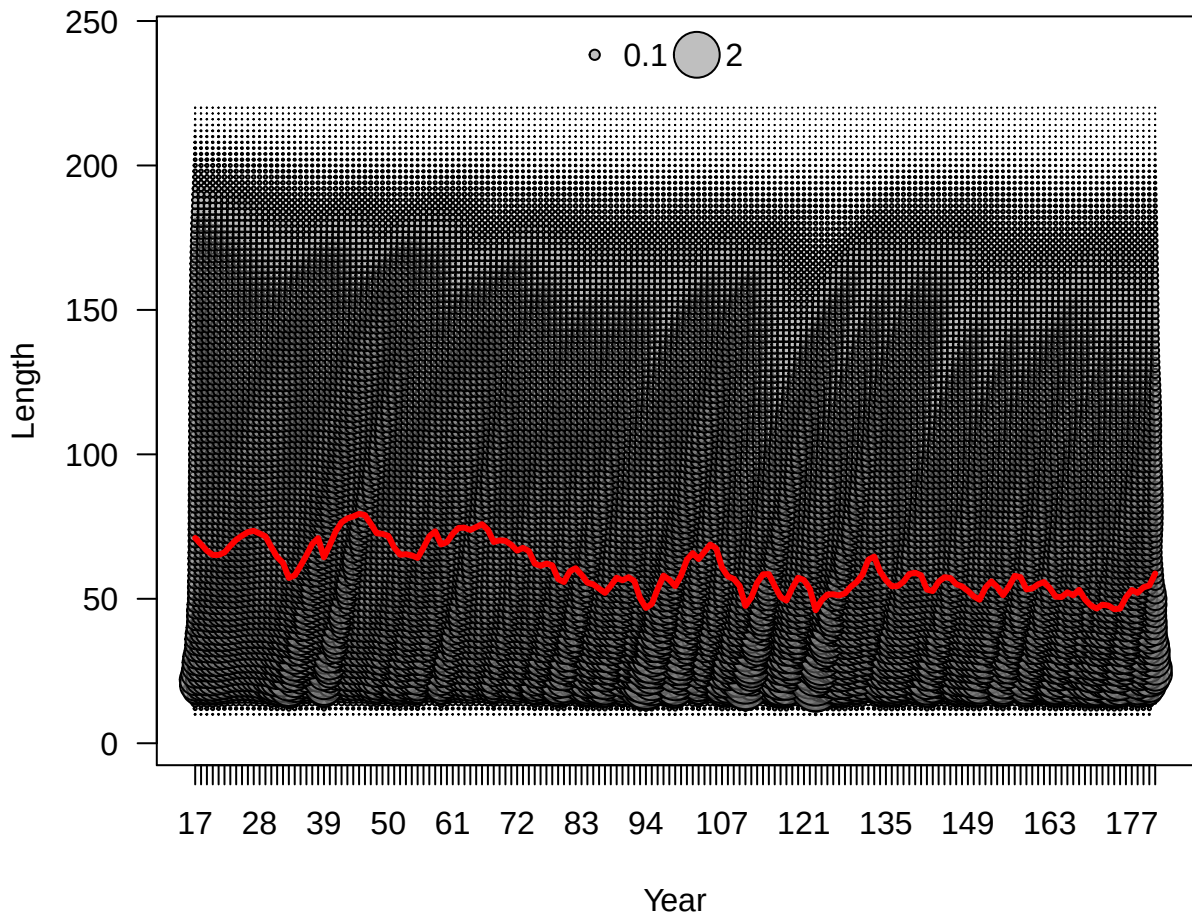
150

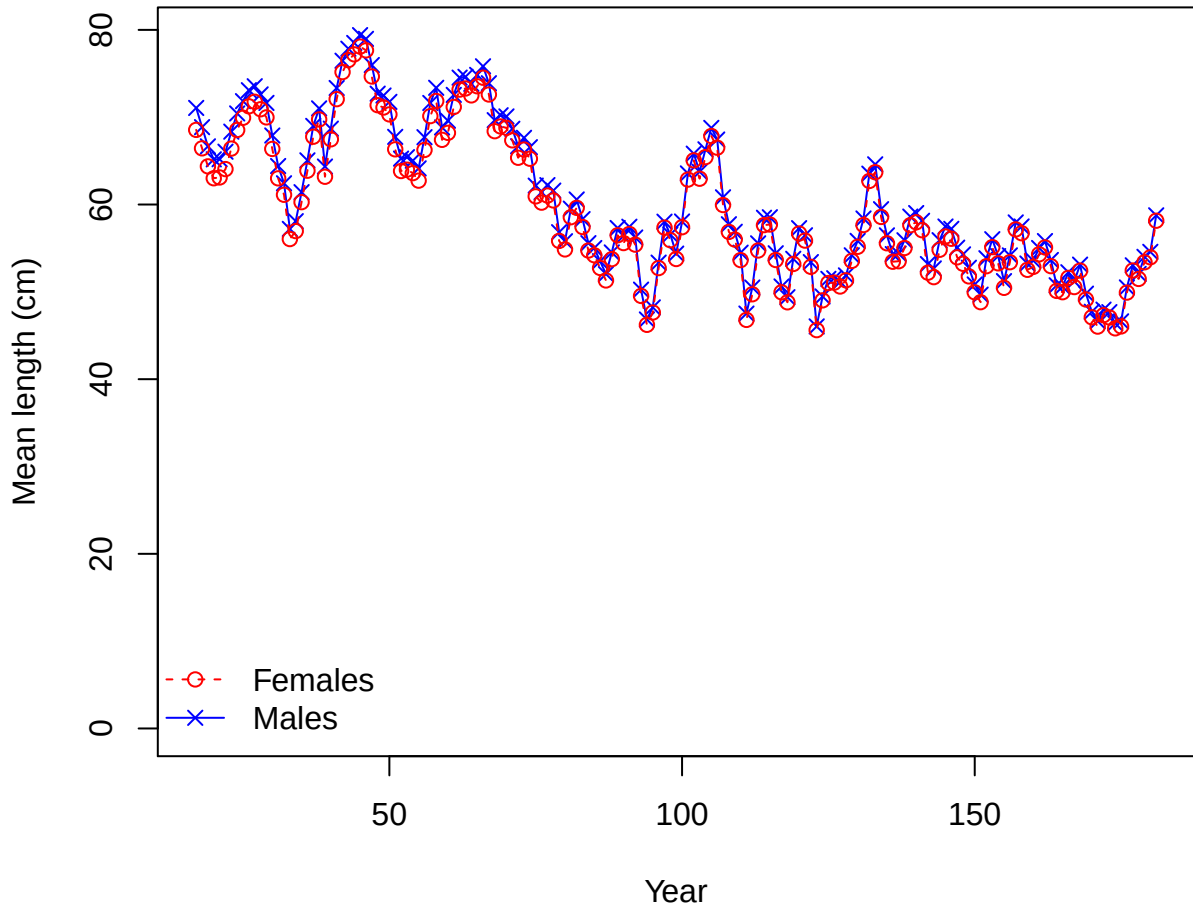
Year

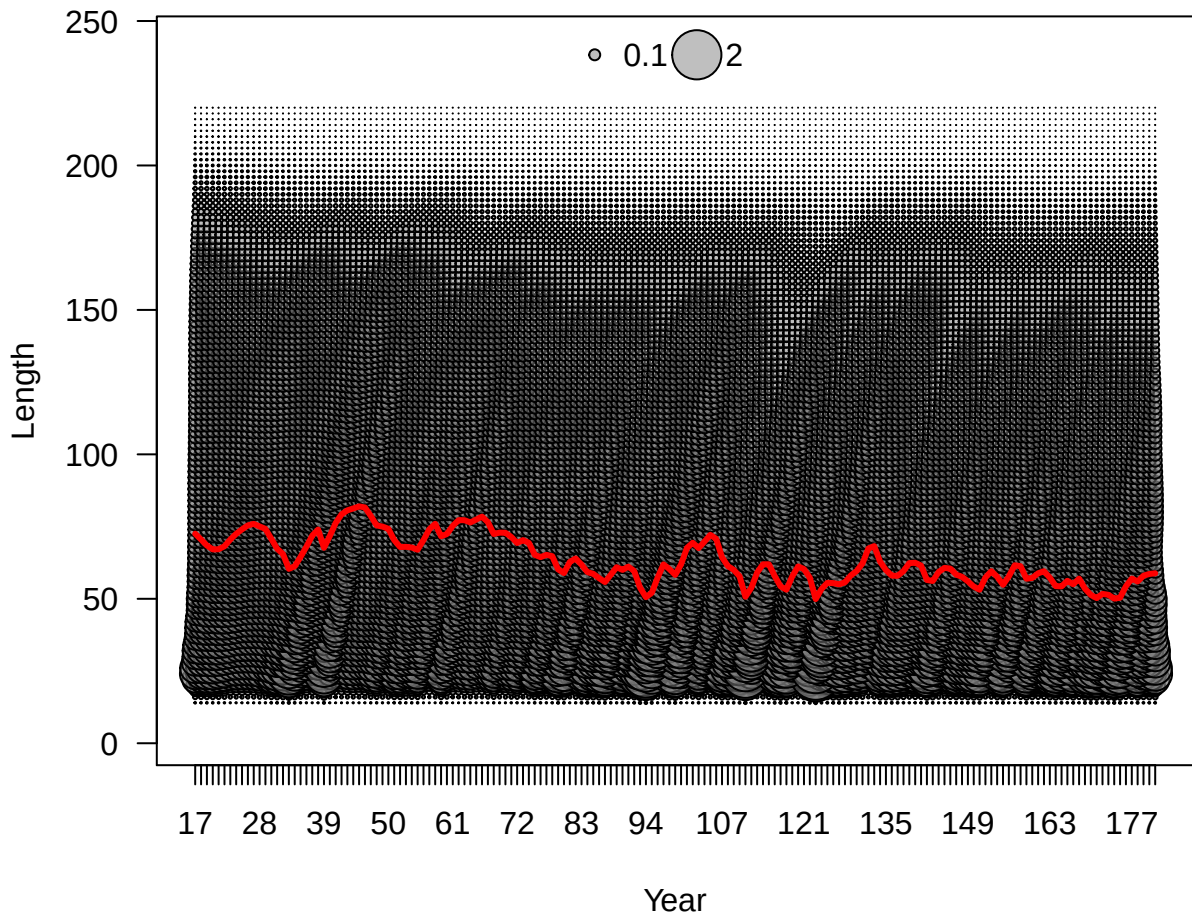


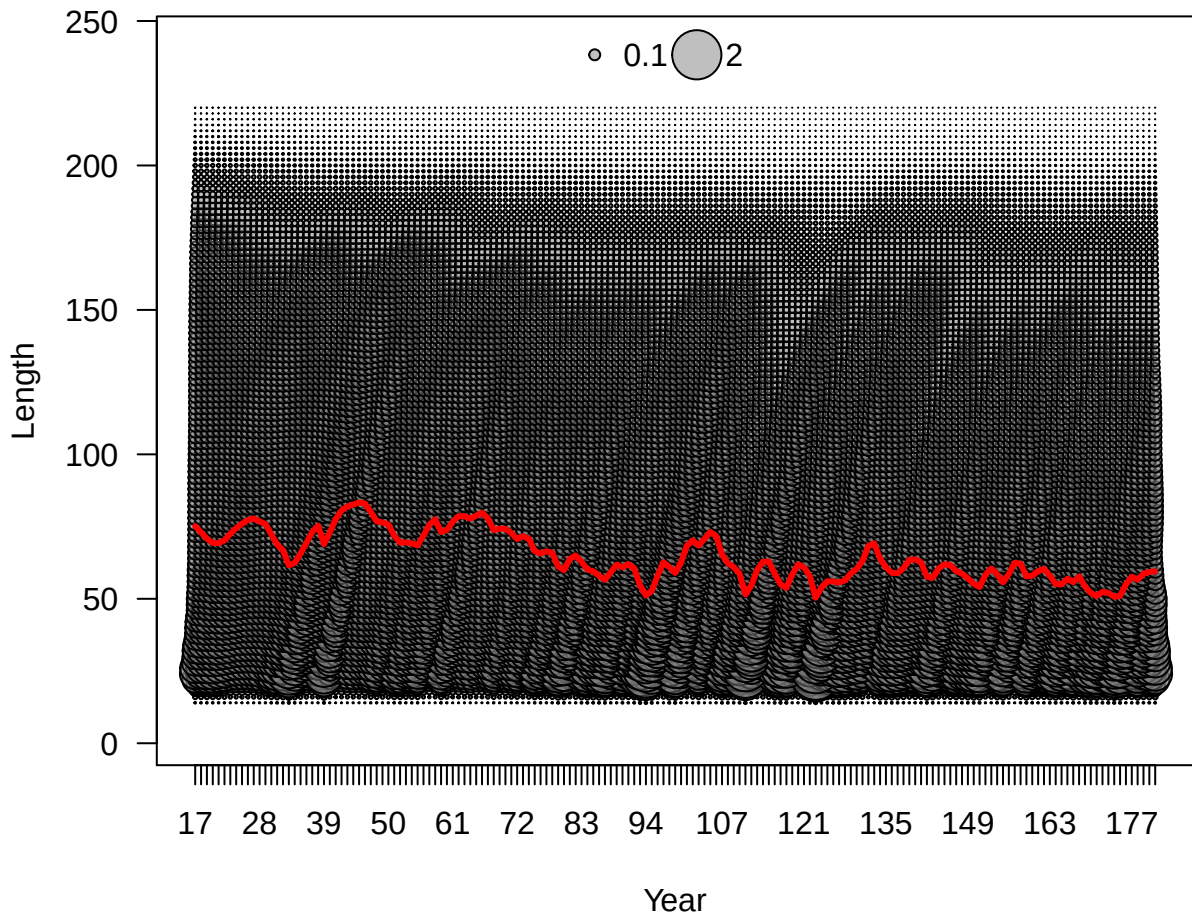


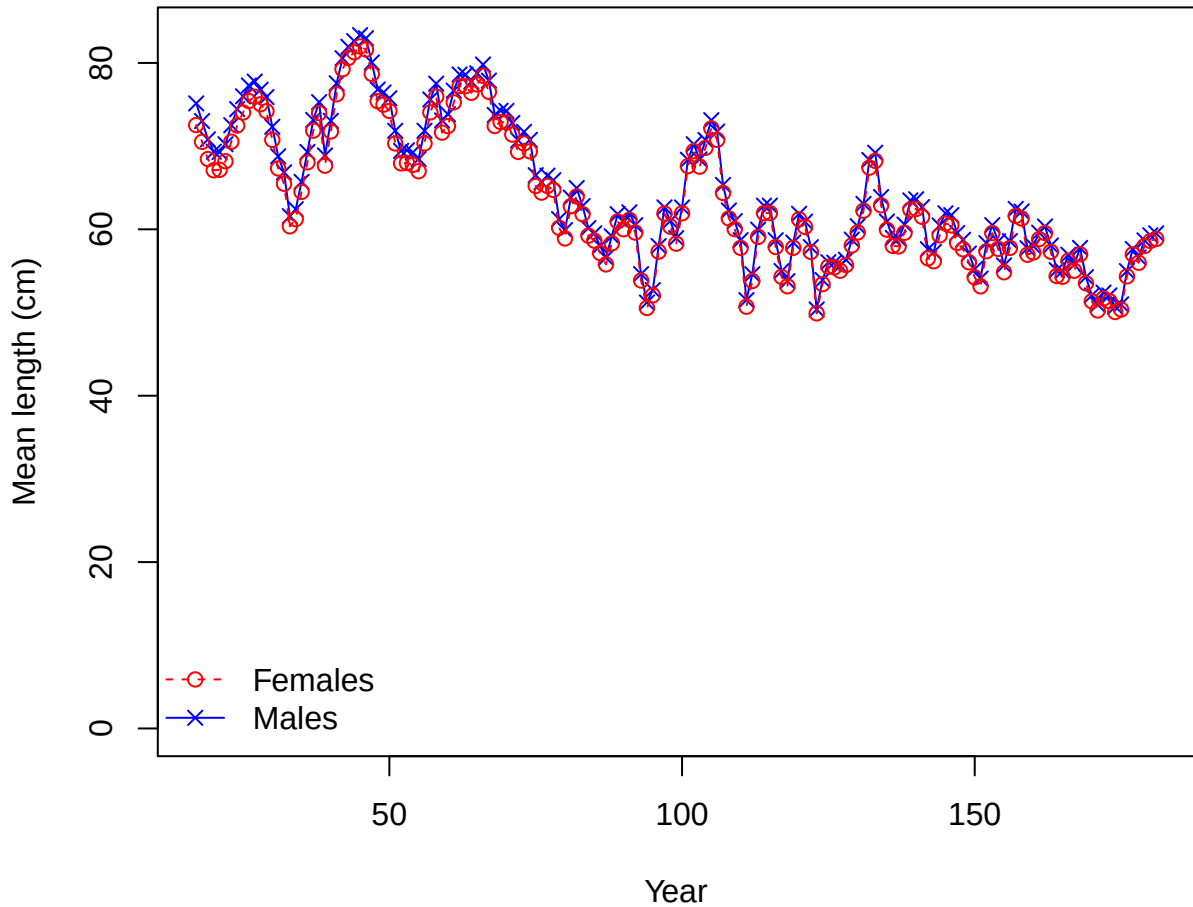




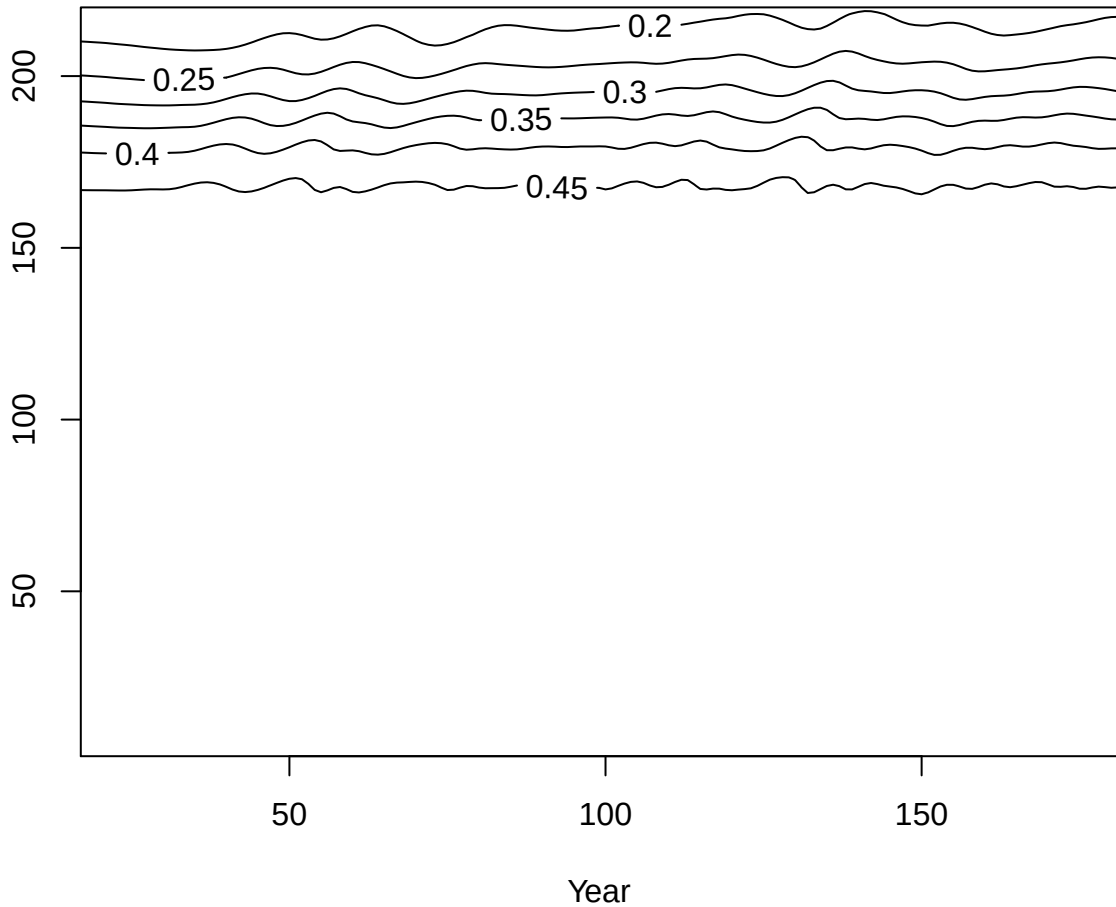


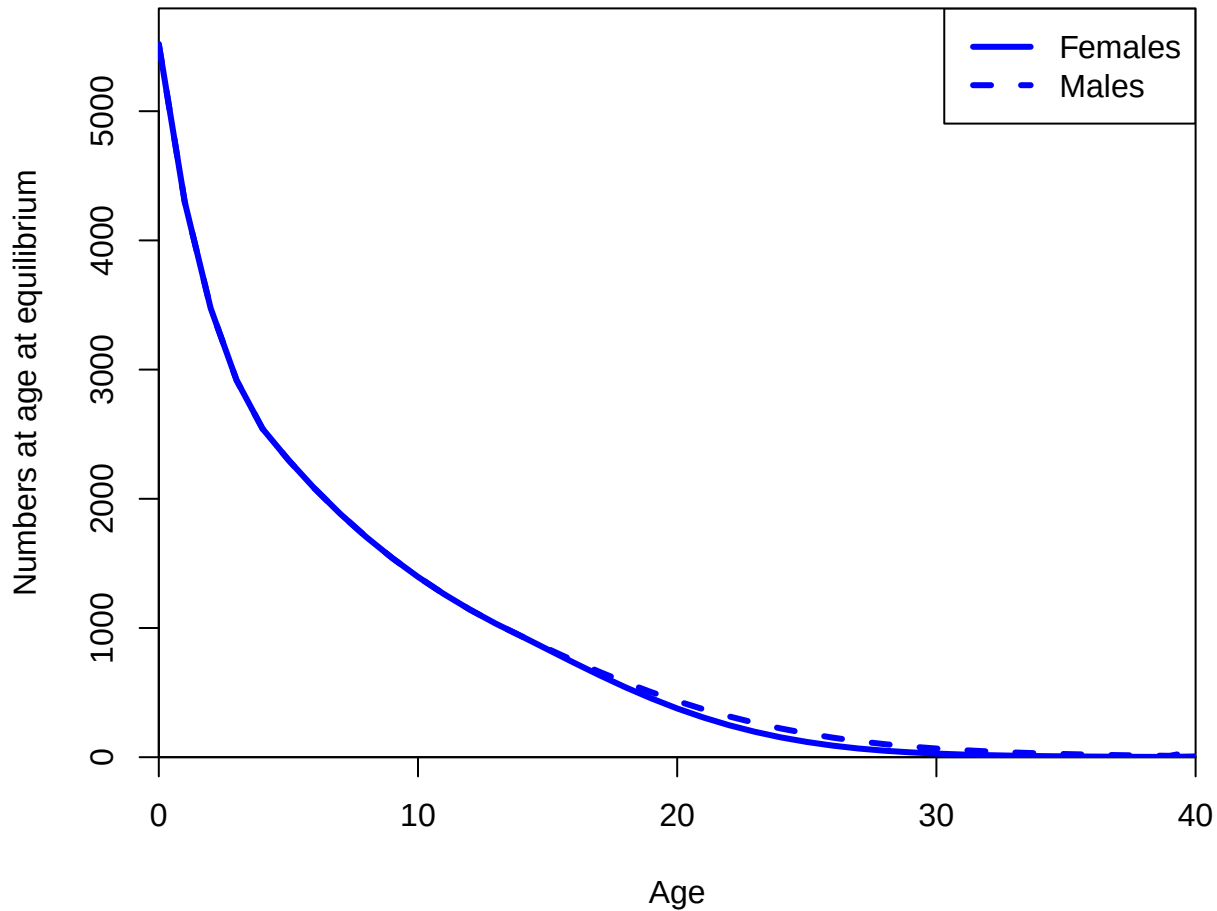


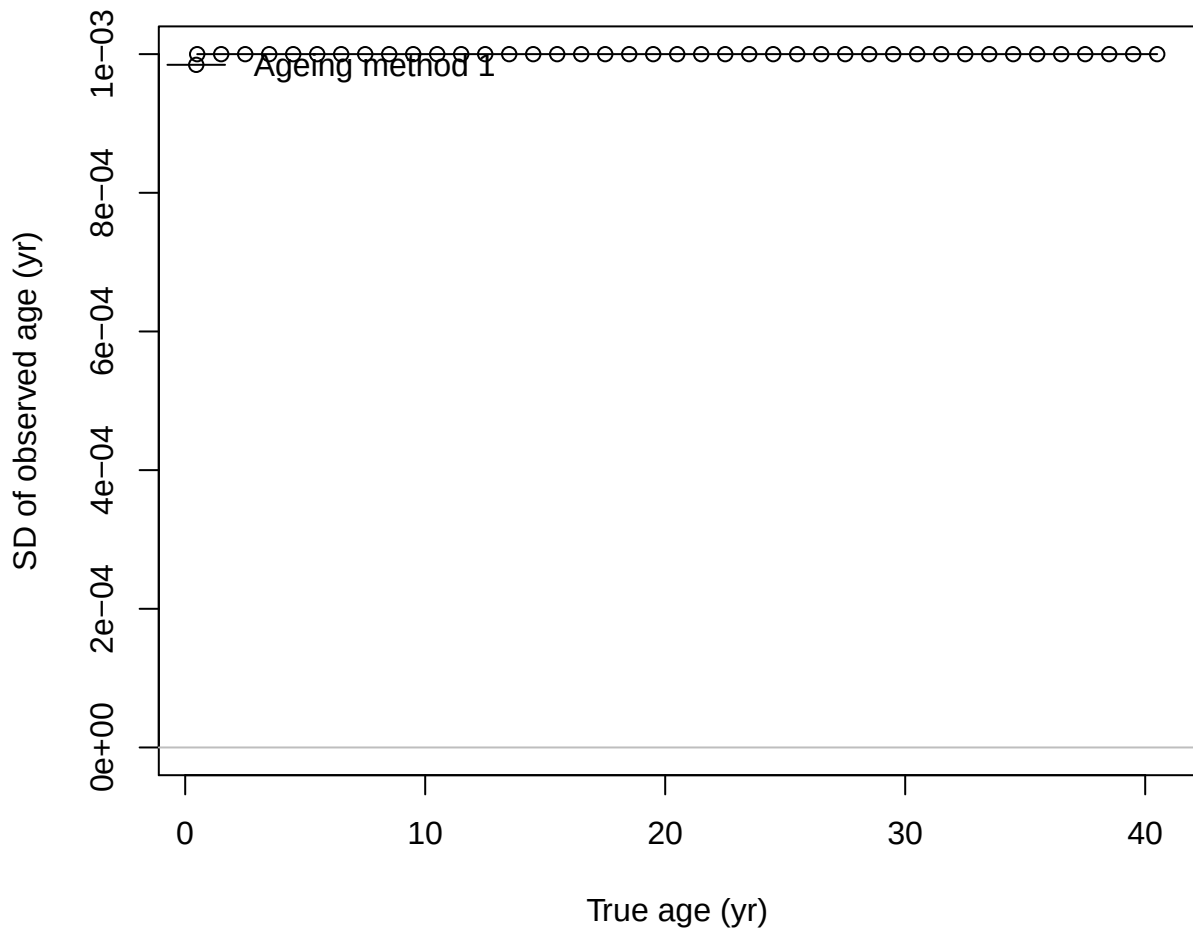




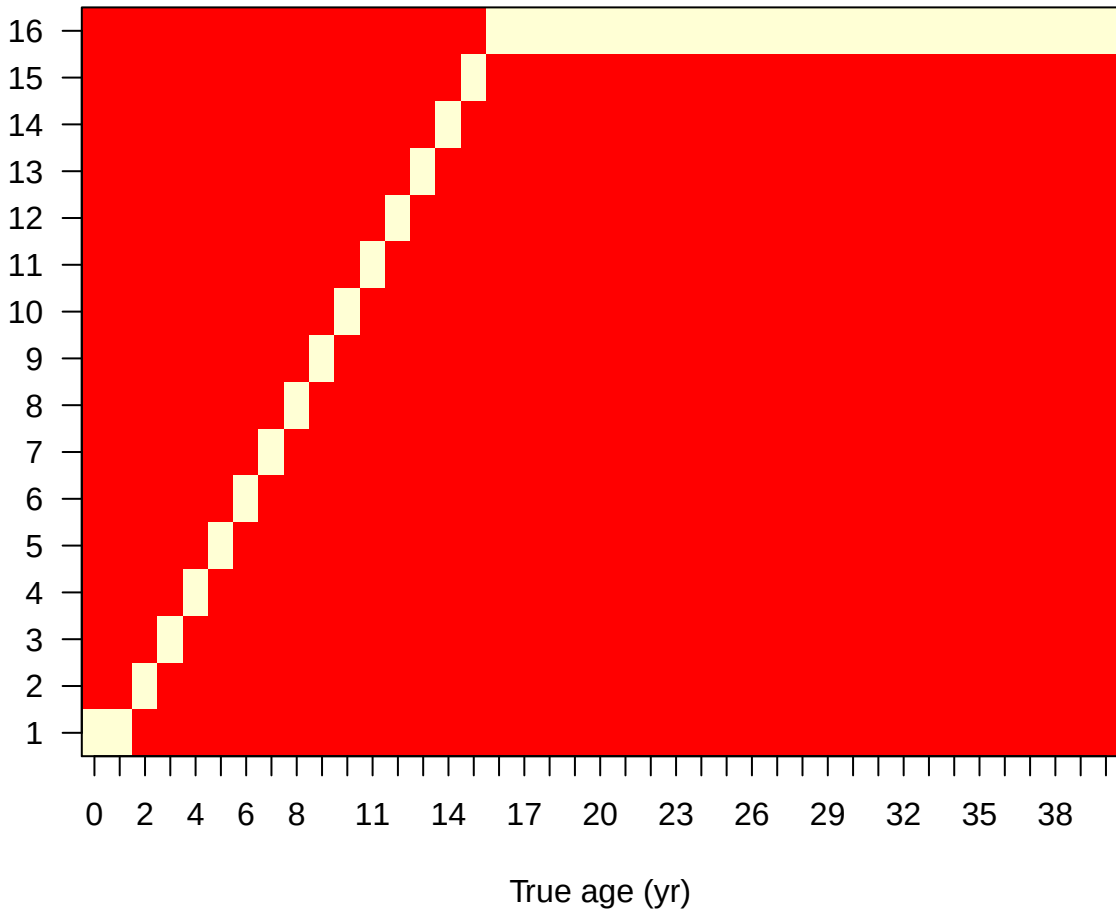
Length

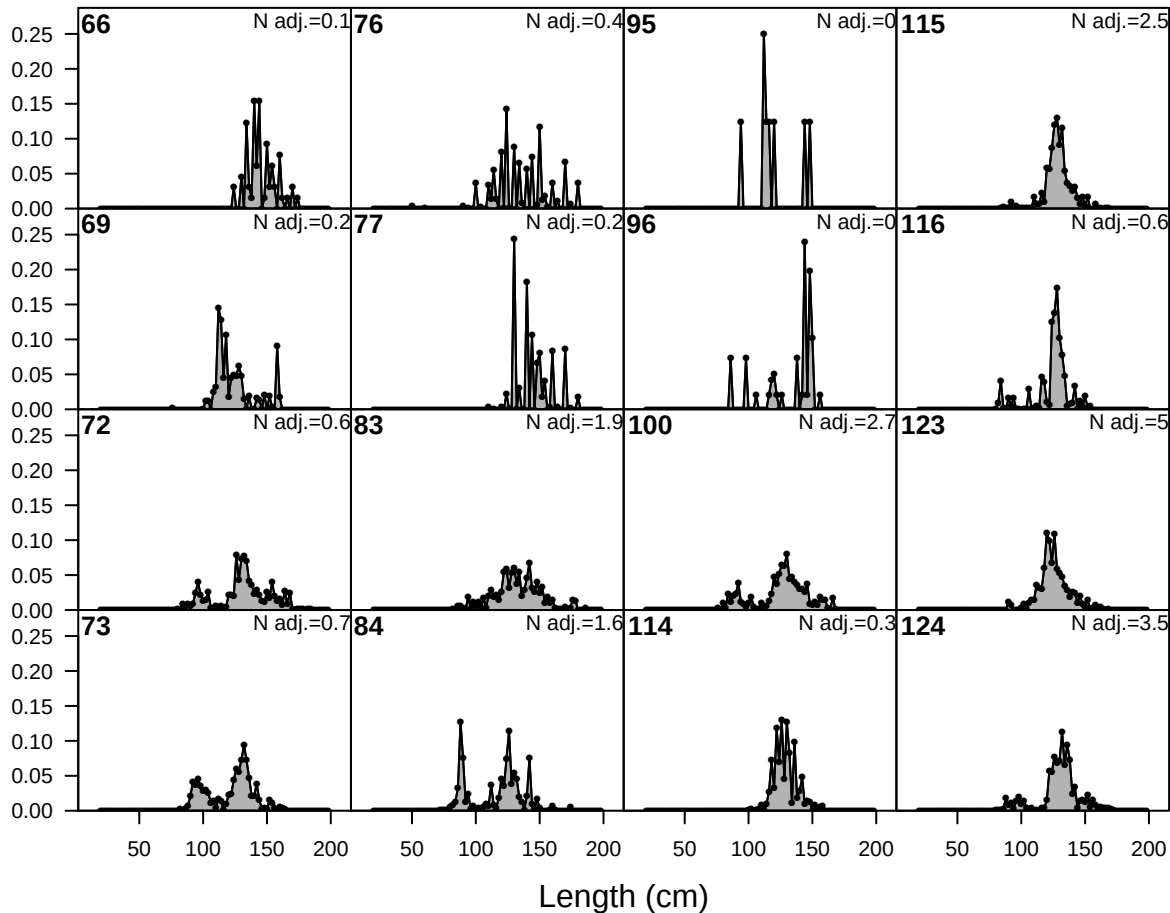




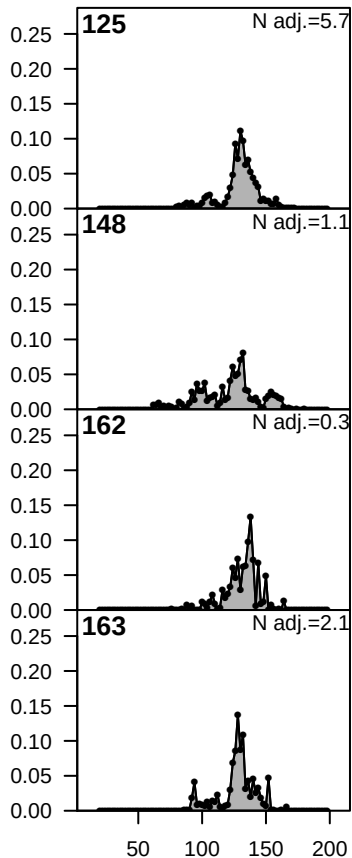


Observed age (yr)

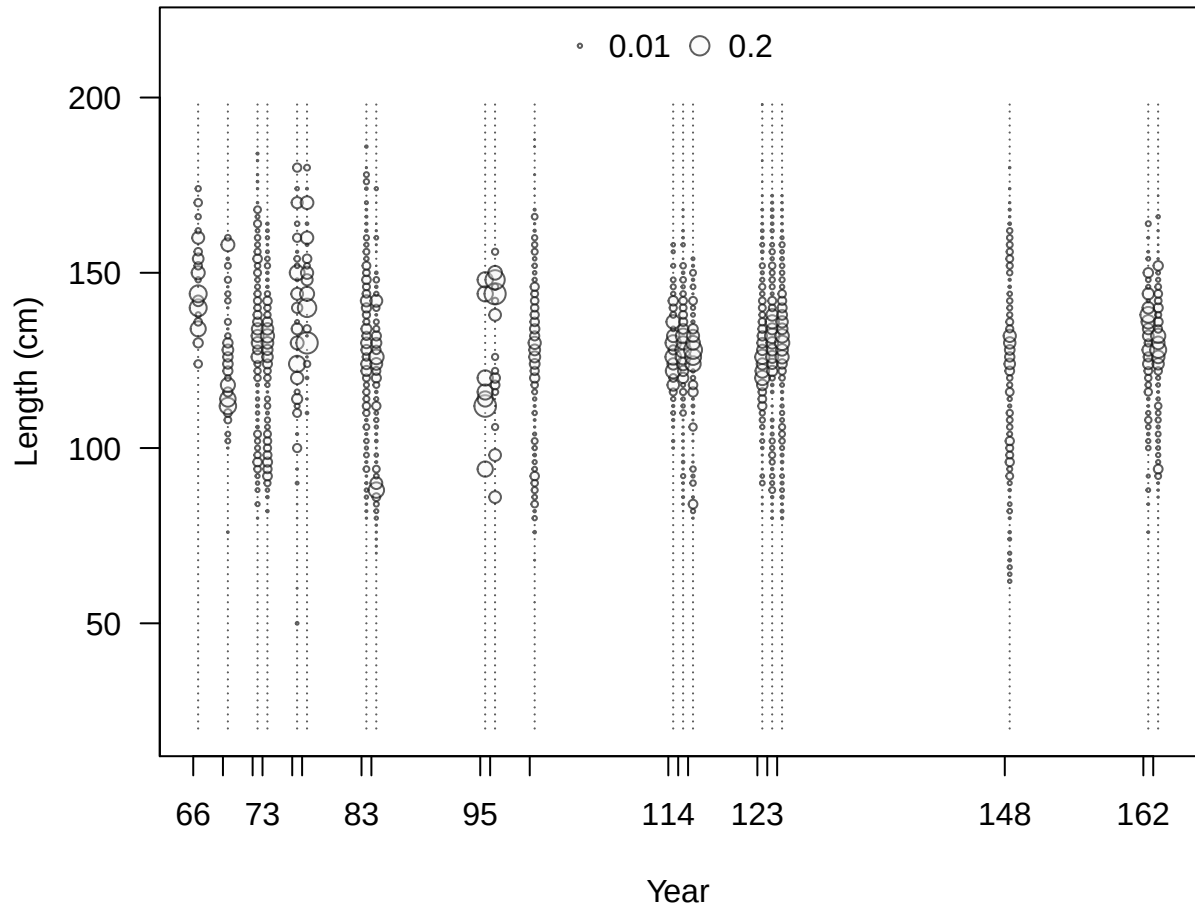




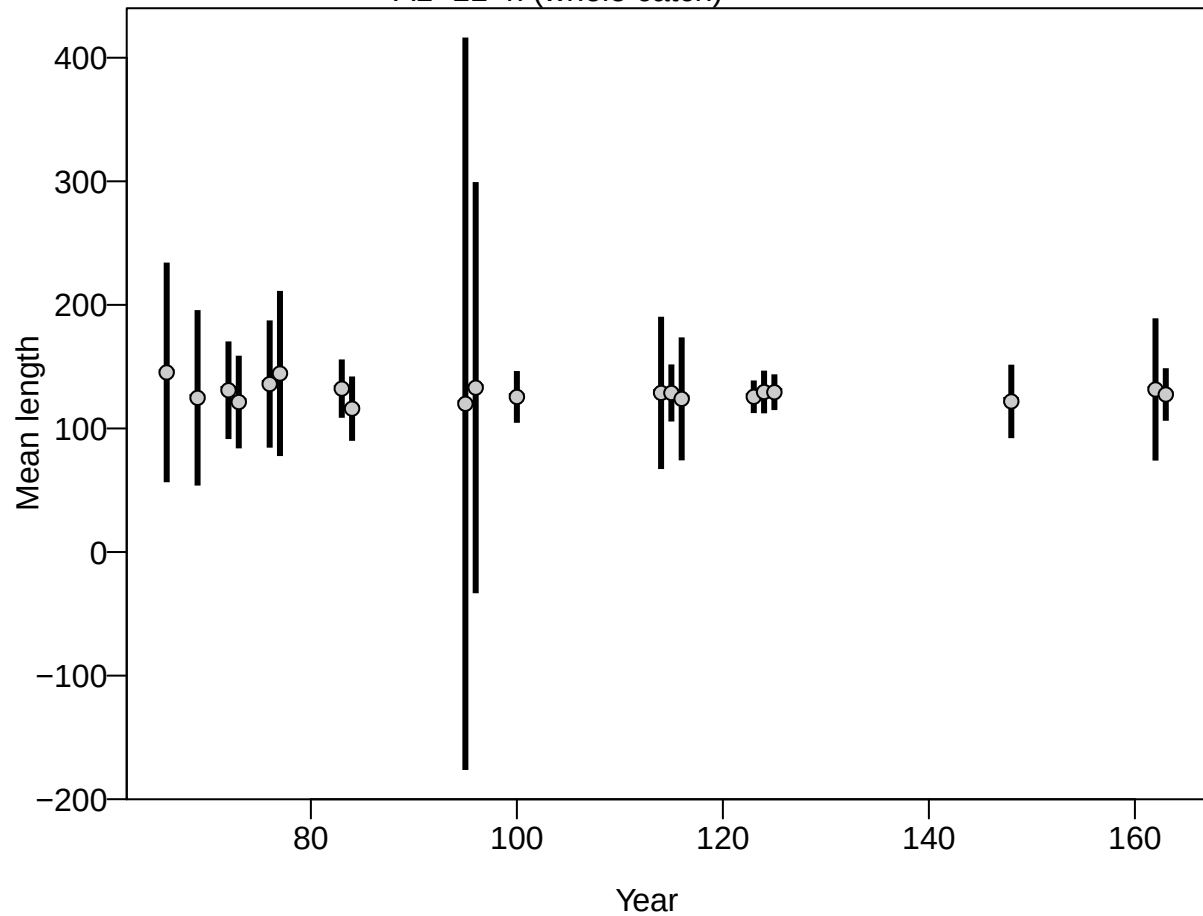
Proportion

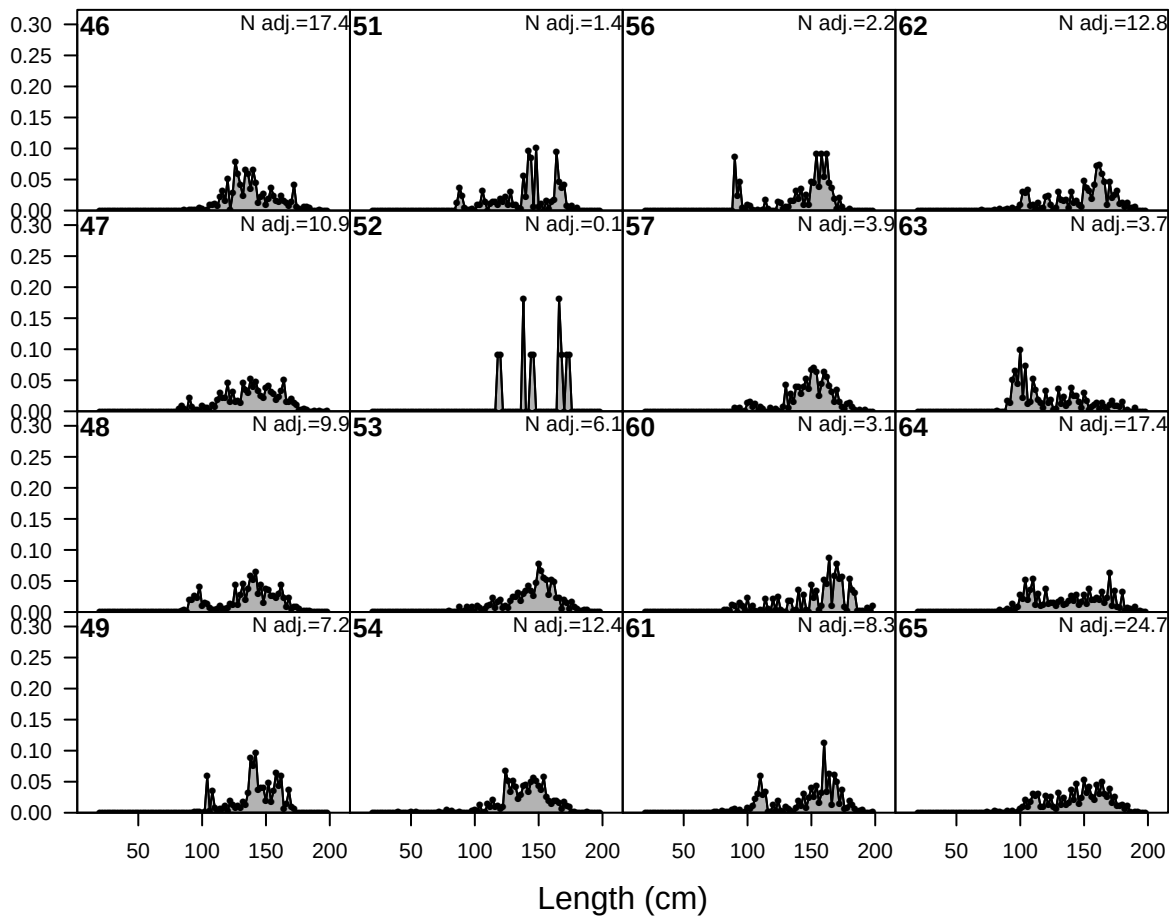


Length (cm)

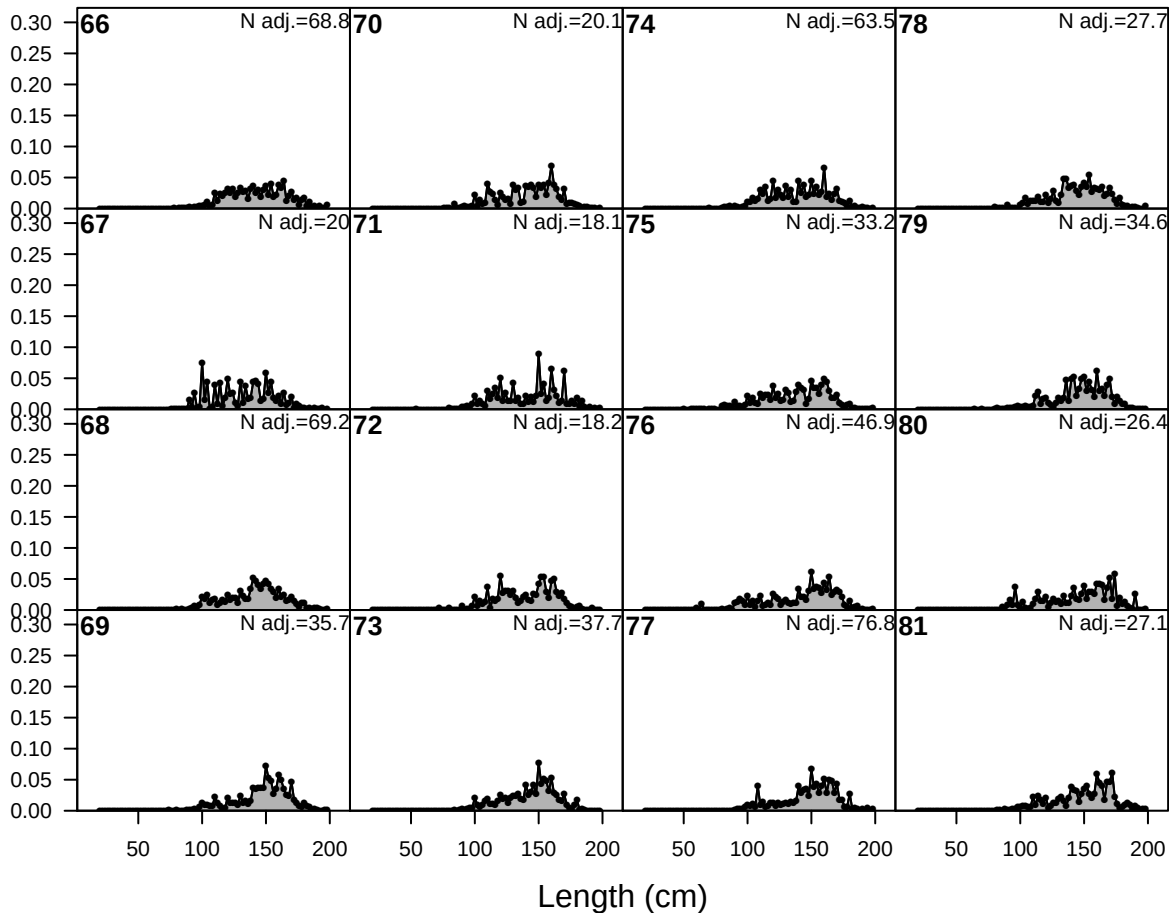


A1-LL-n (whole catch)

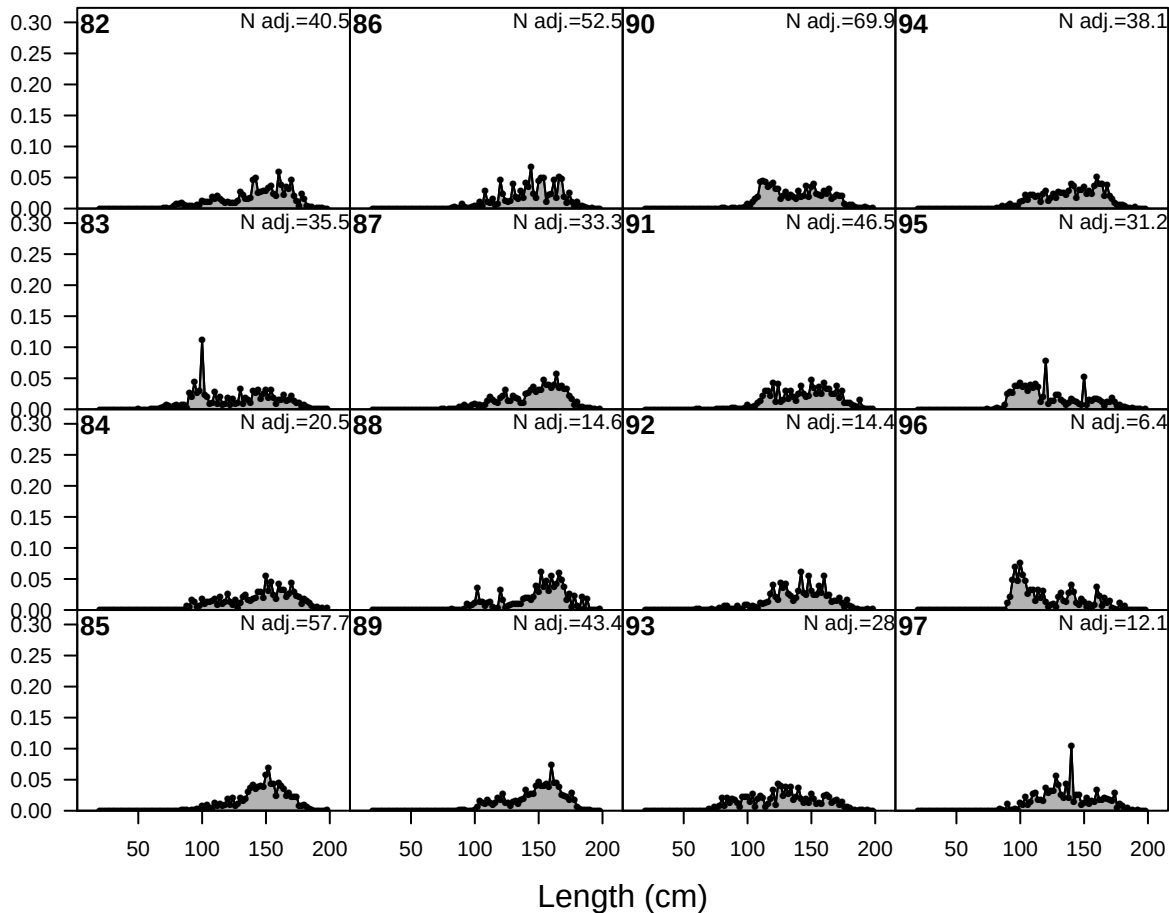


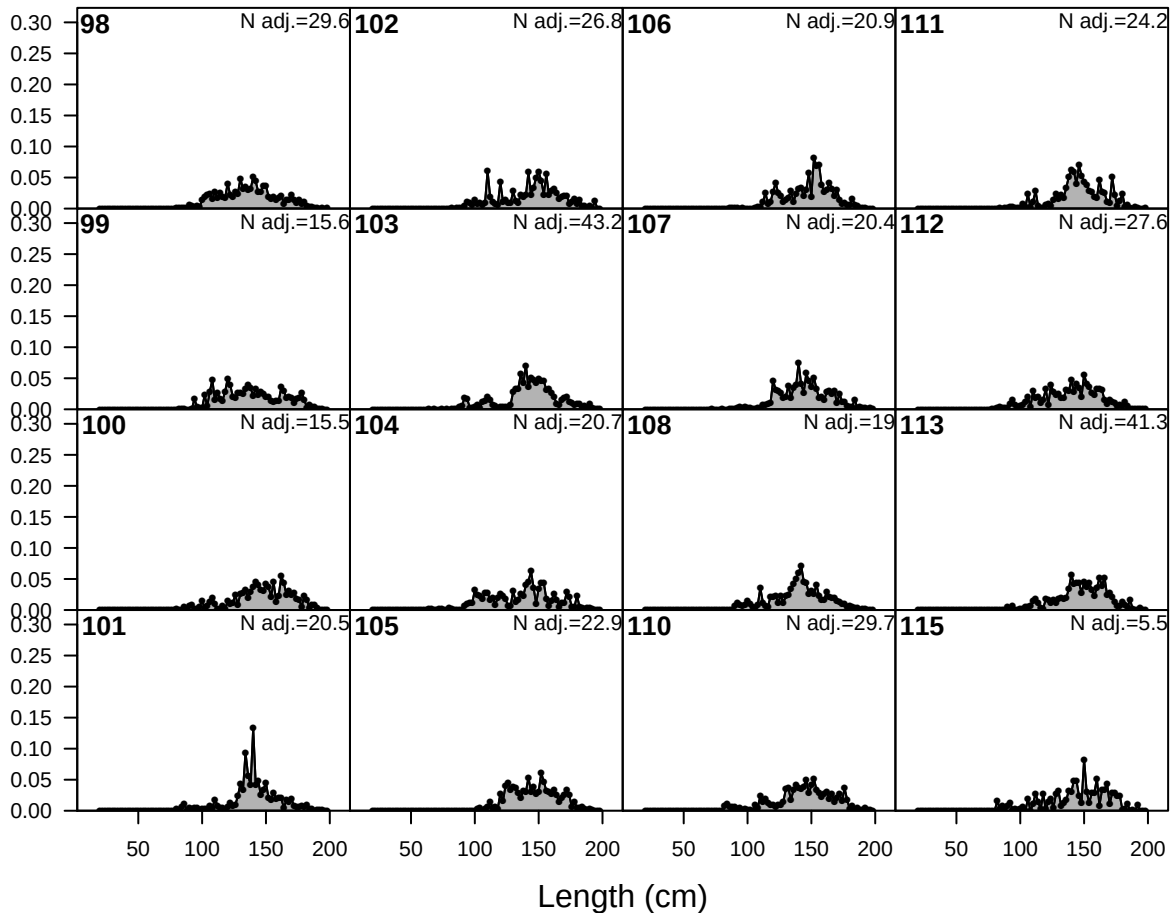


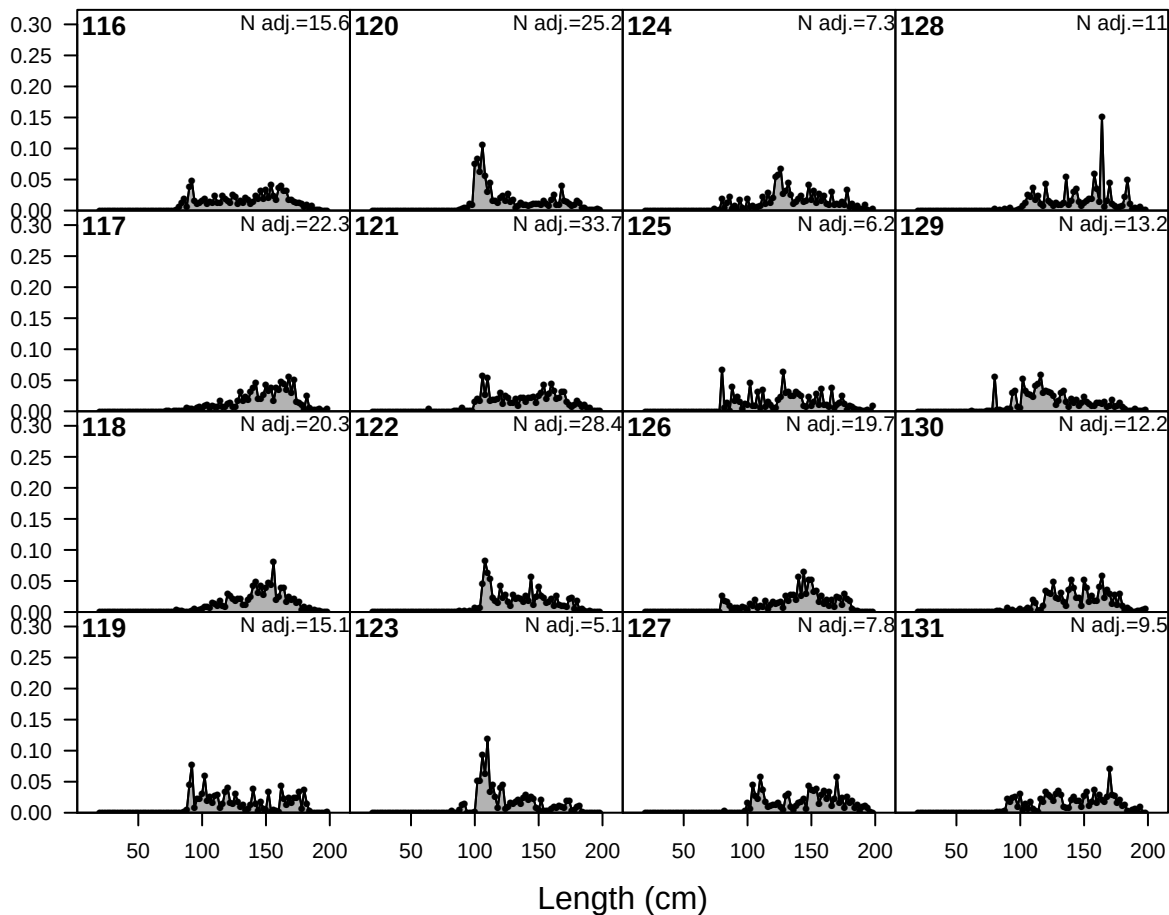
Proportion



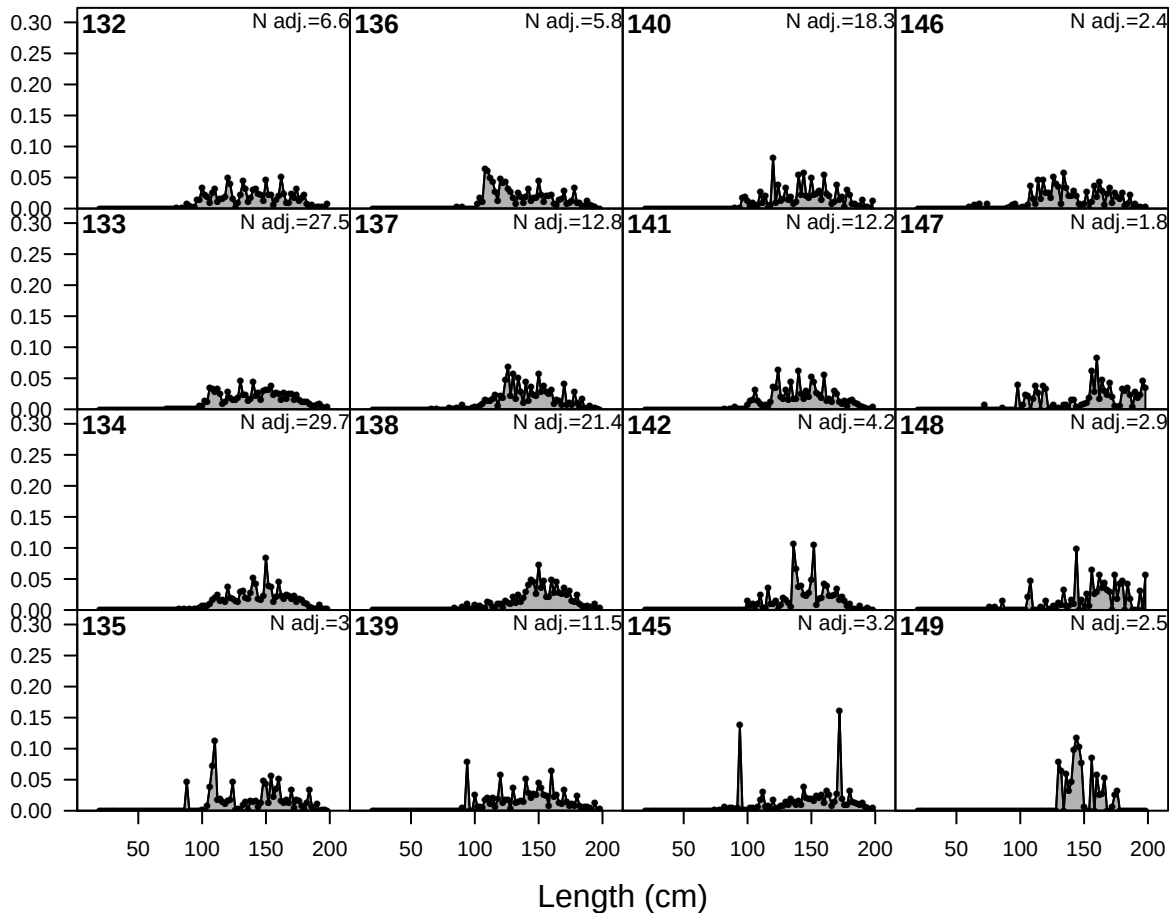
Proportion

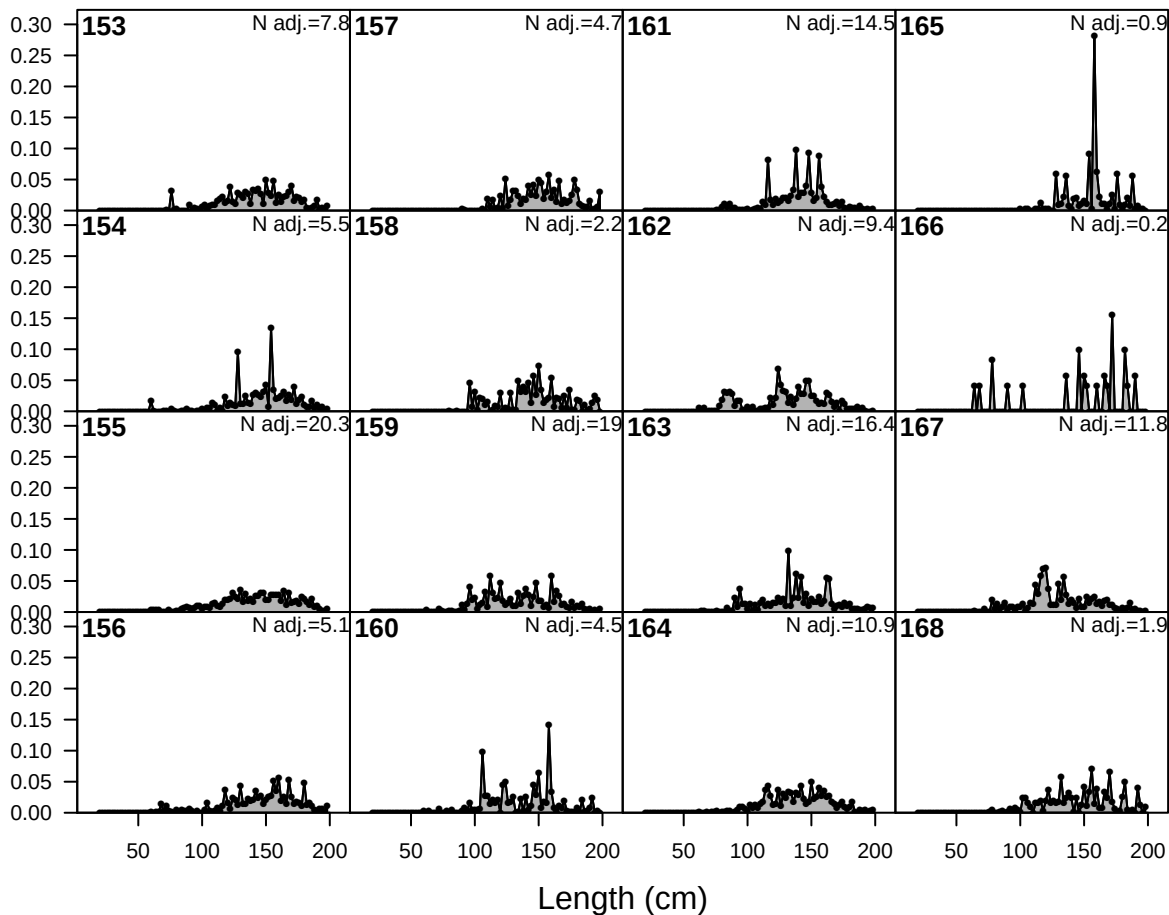




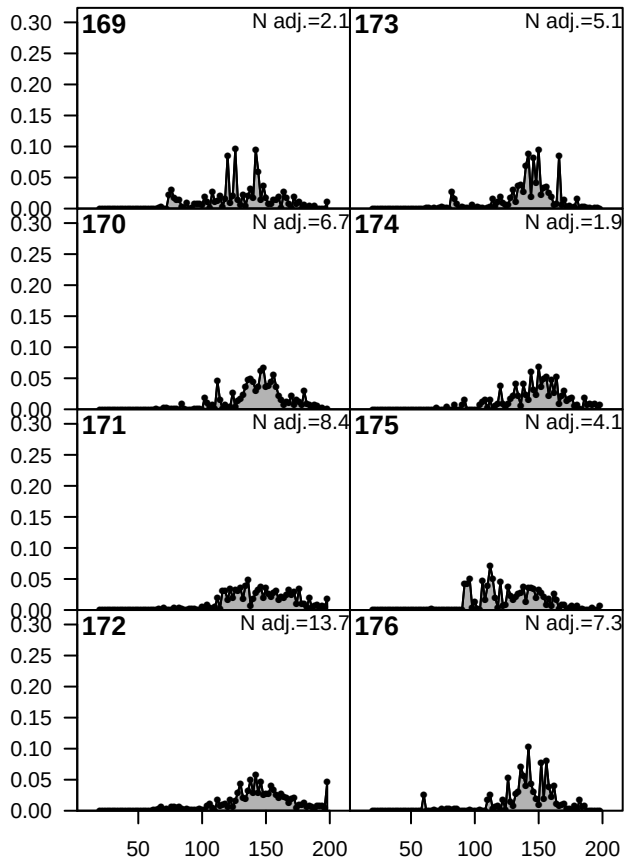


Proportion

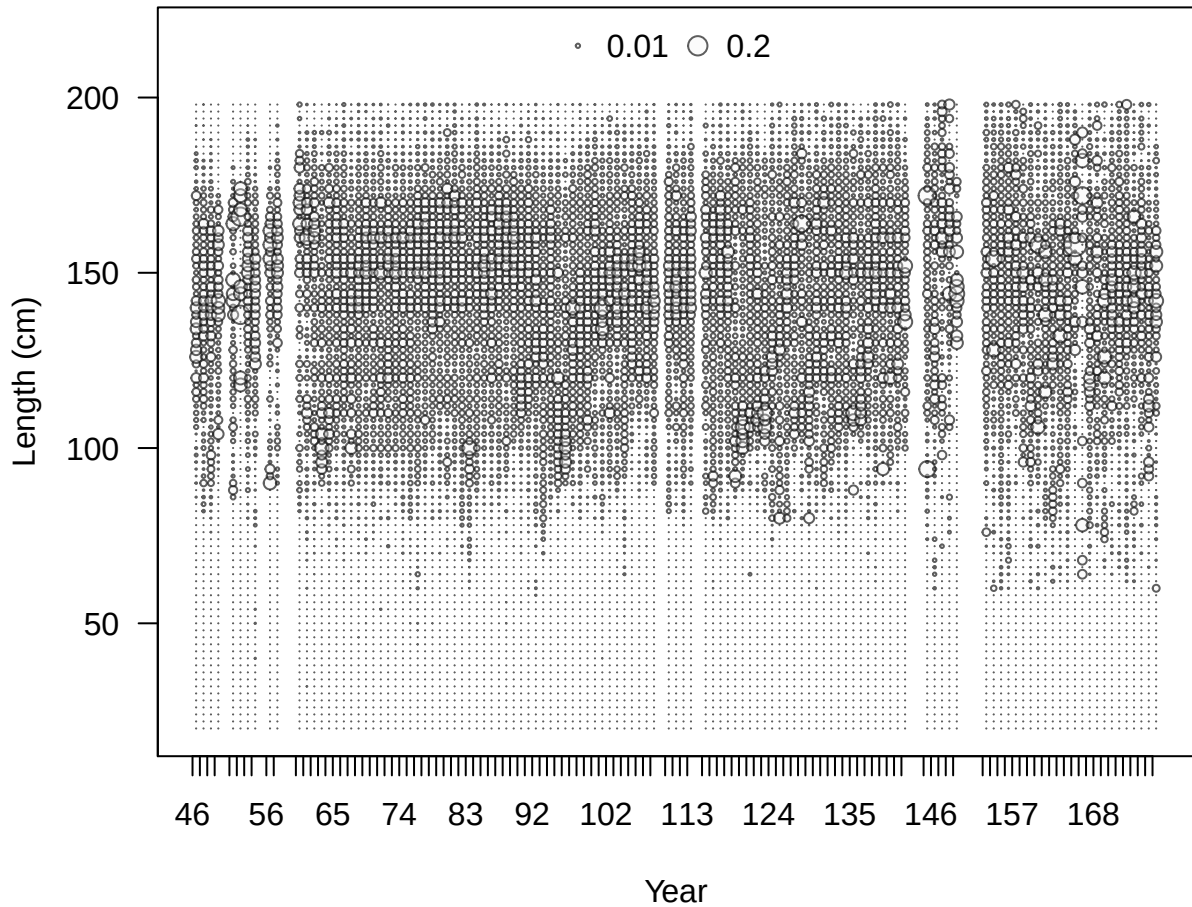




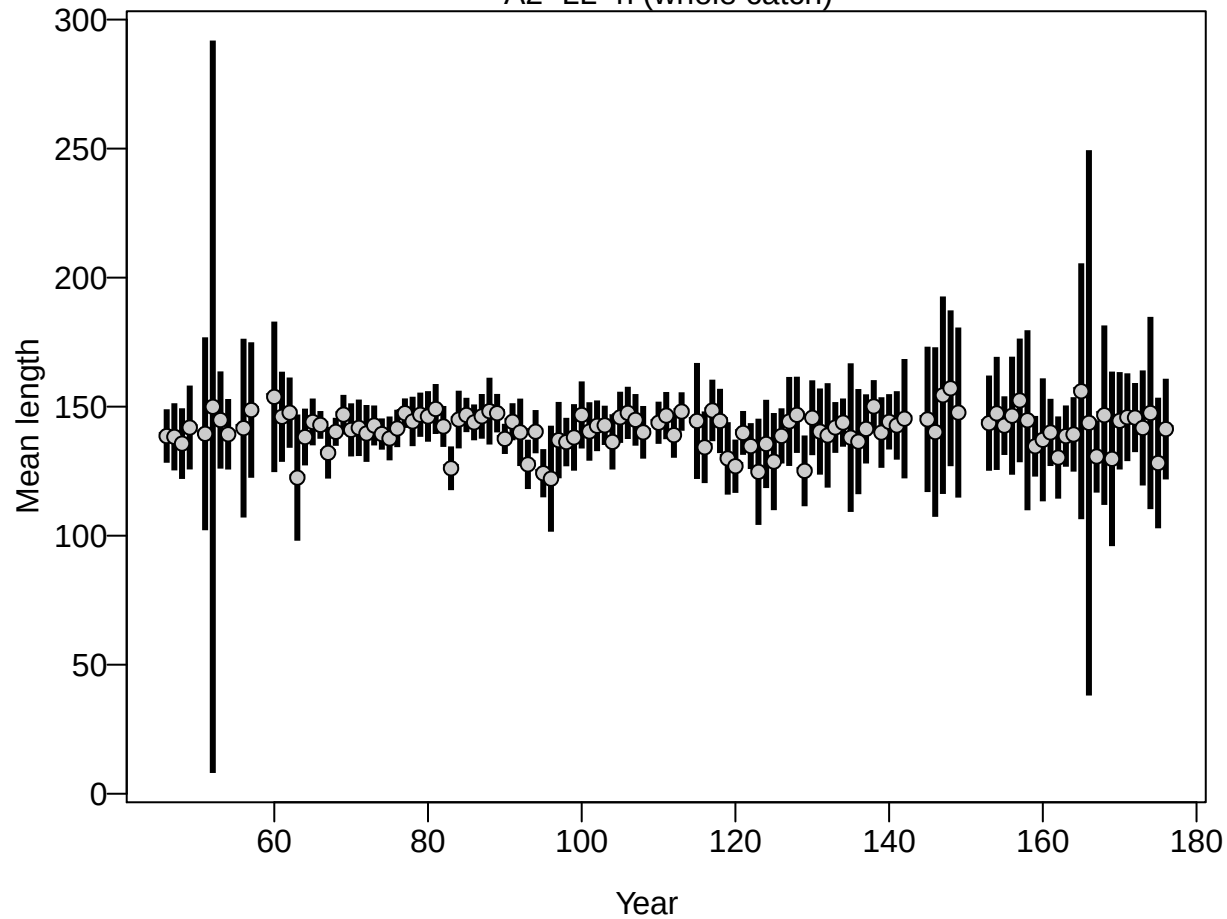
Proportion



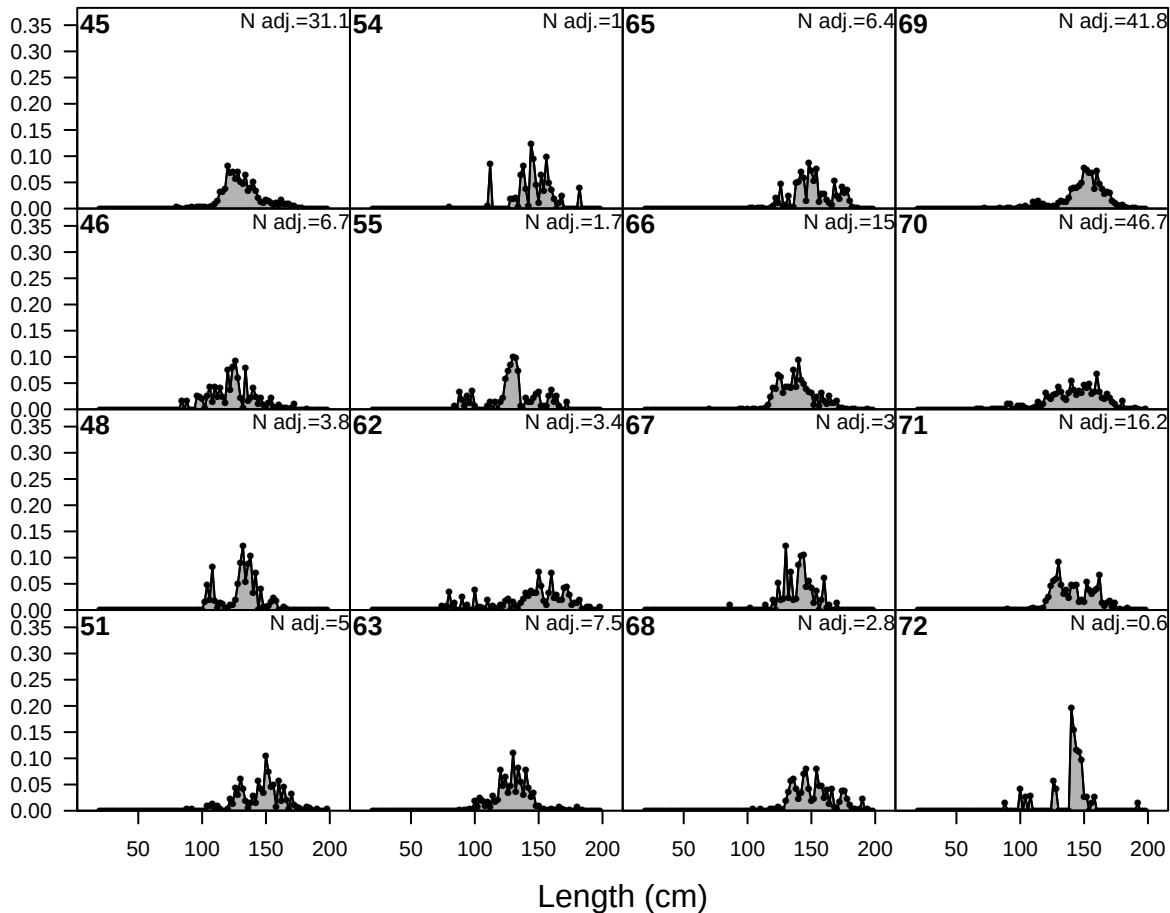
Length (cm)



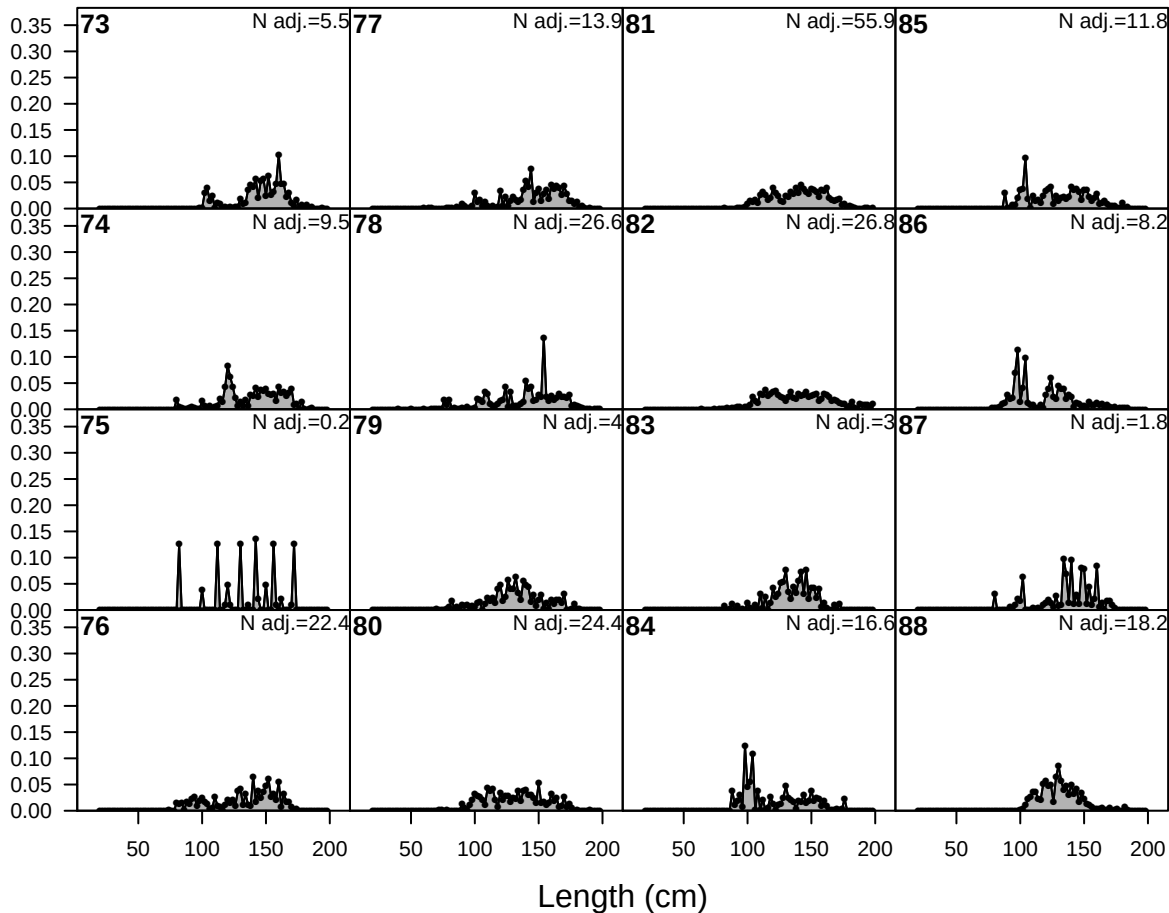
A2-LL-n (whole catch)

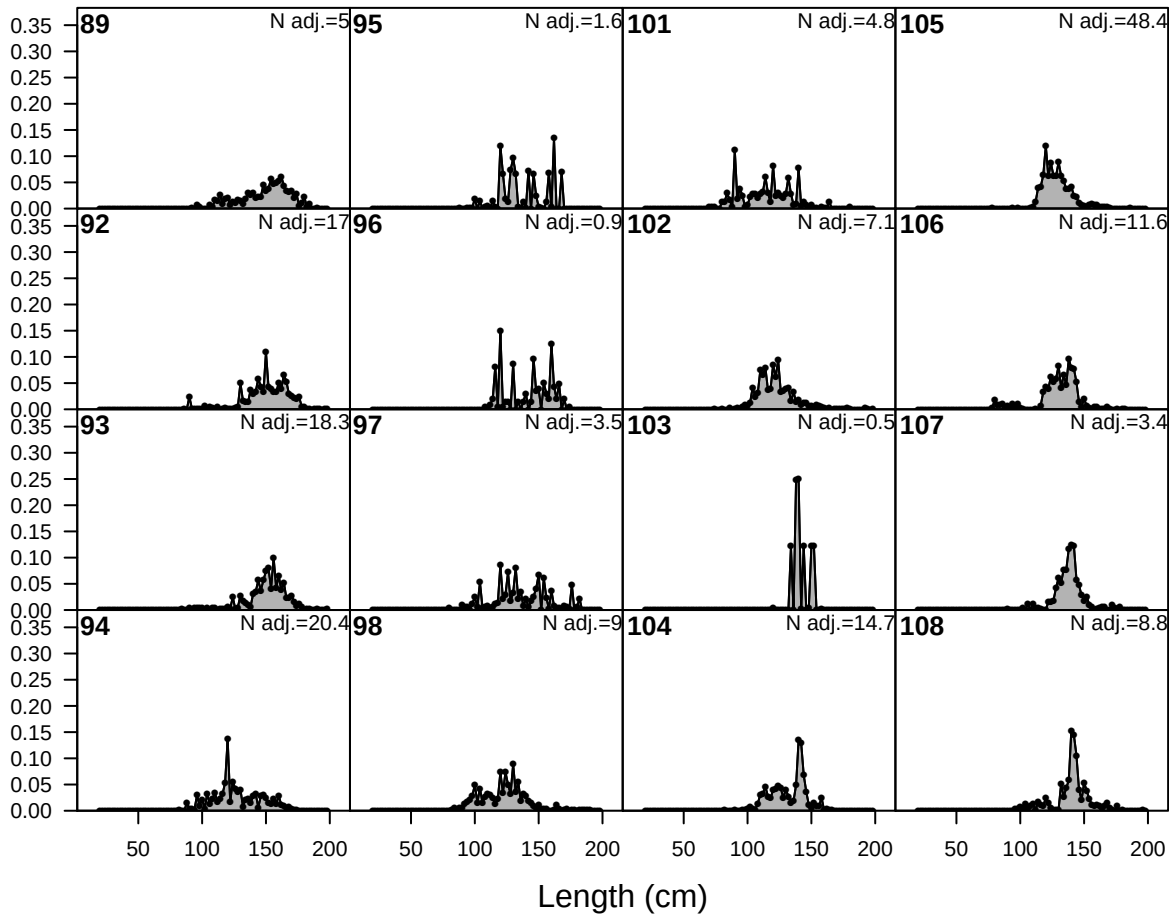


Proportion

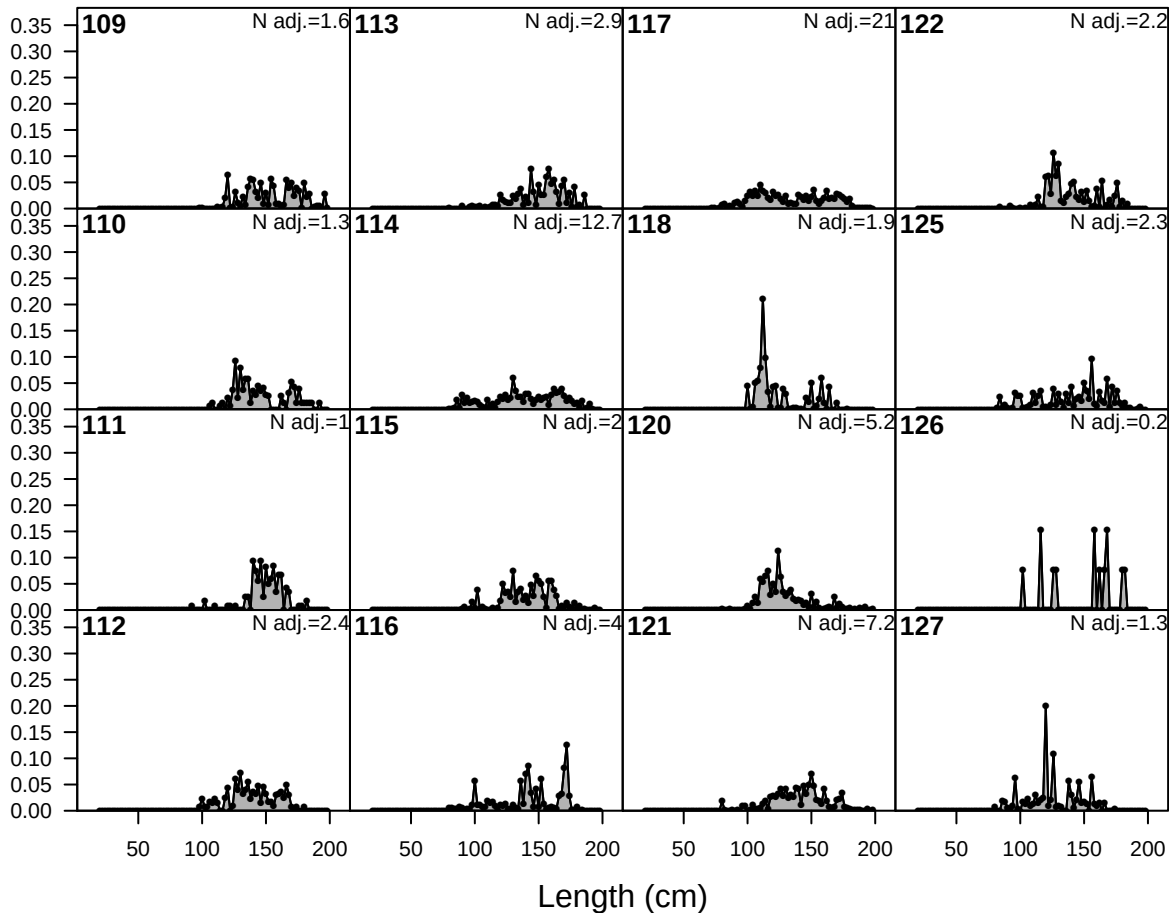


Proportion

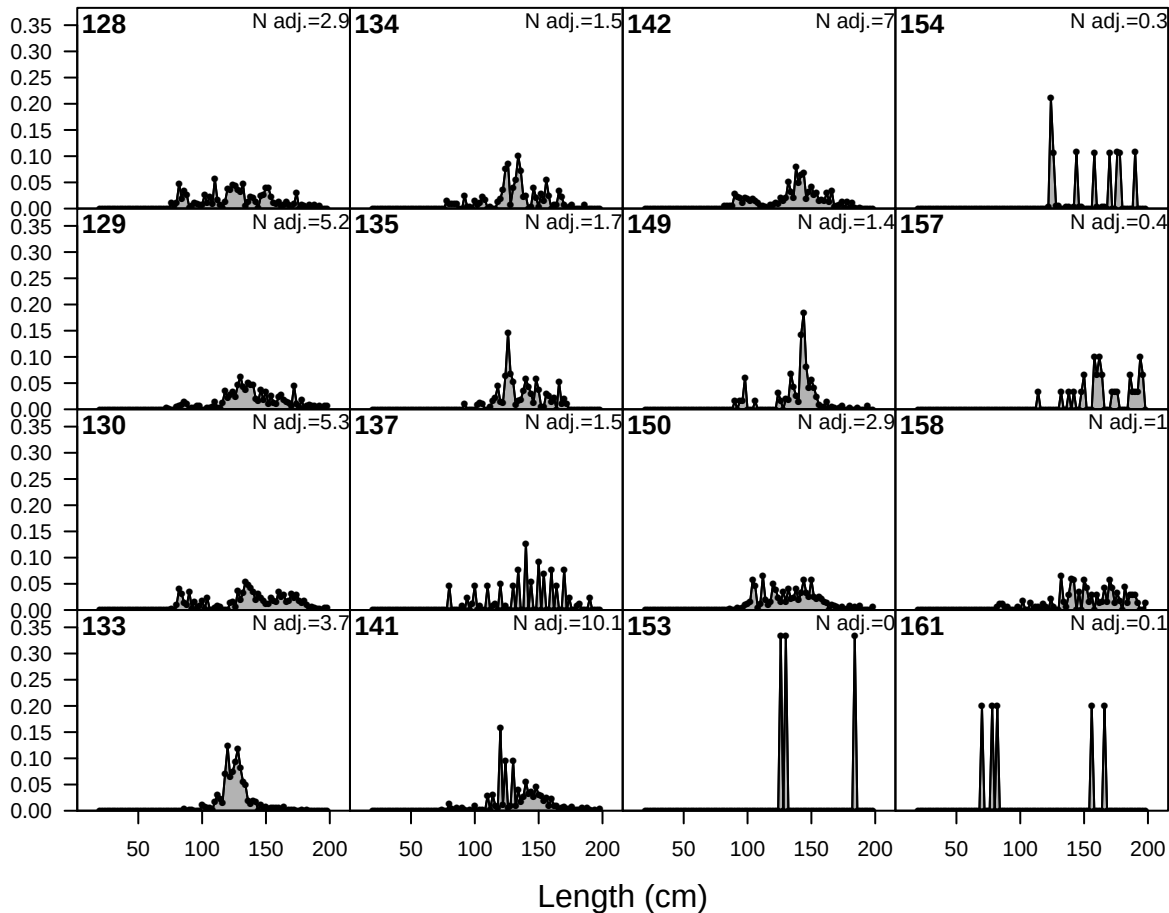




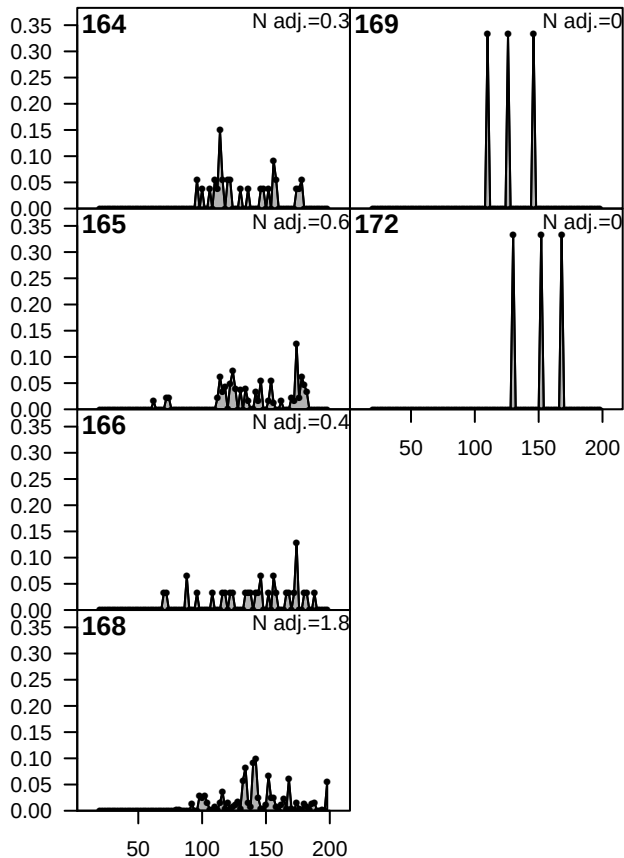
Proportion

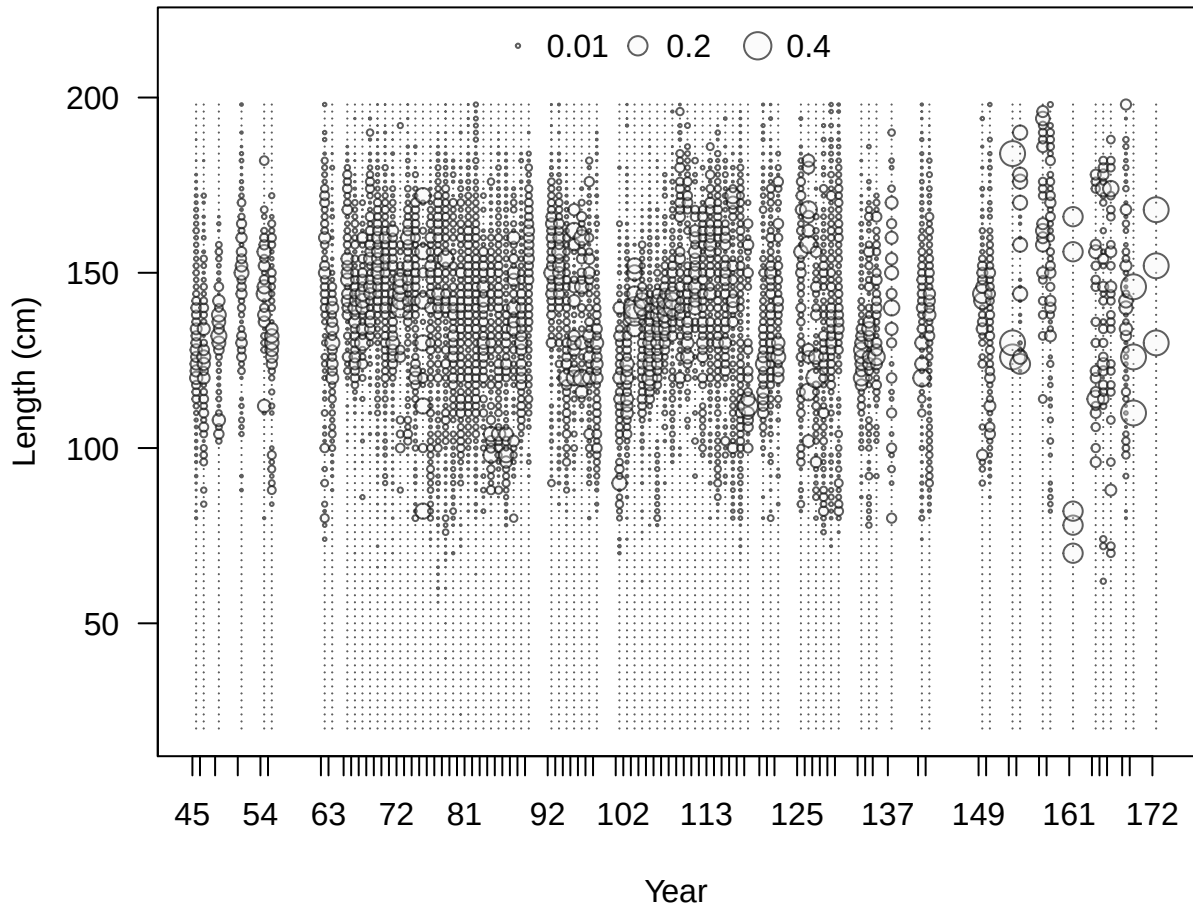


Proportion

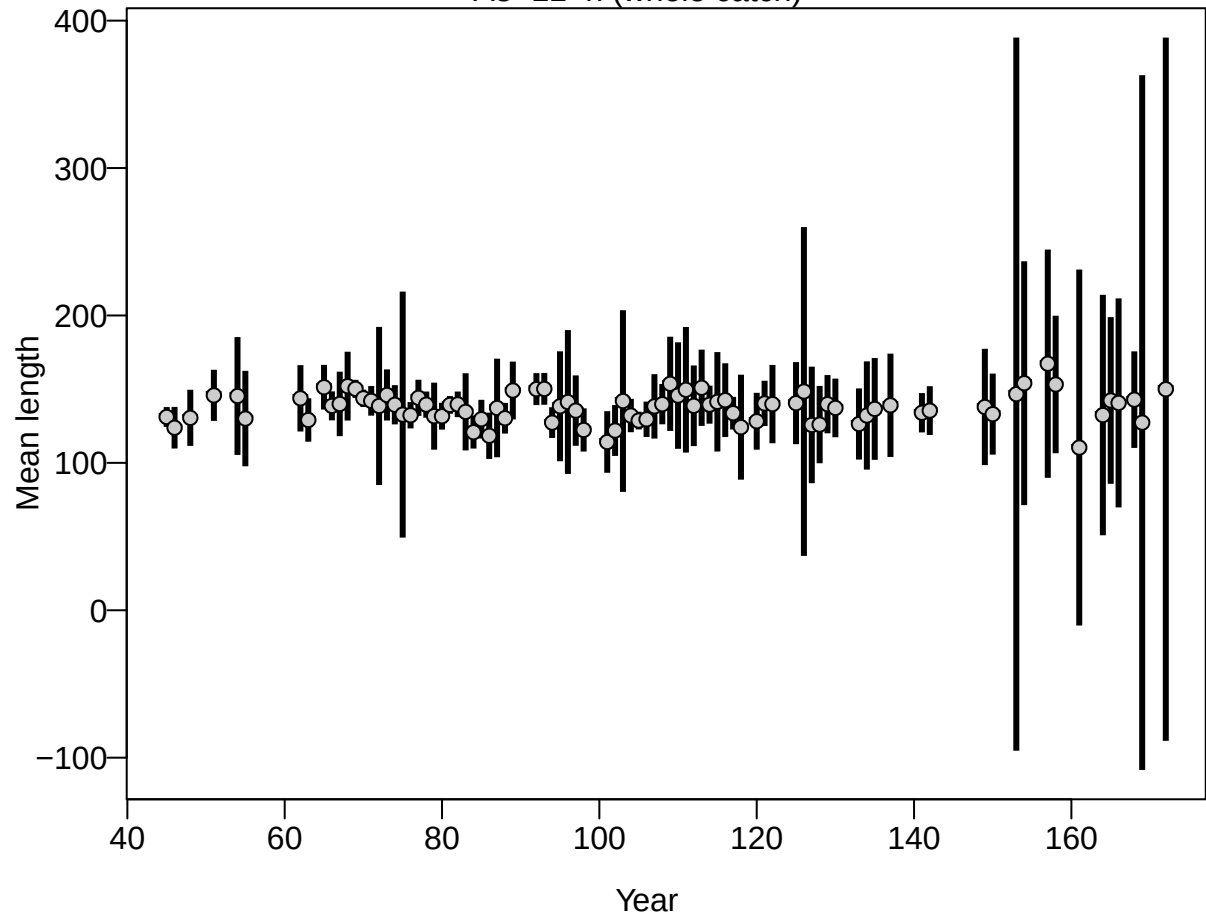


Proportion

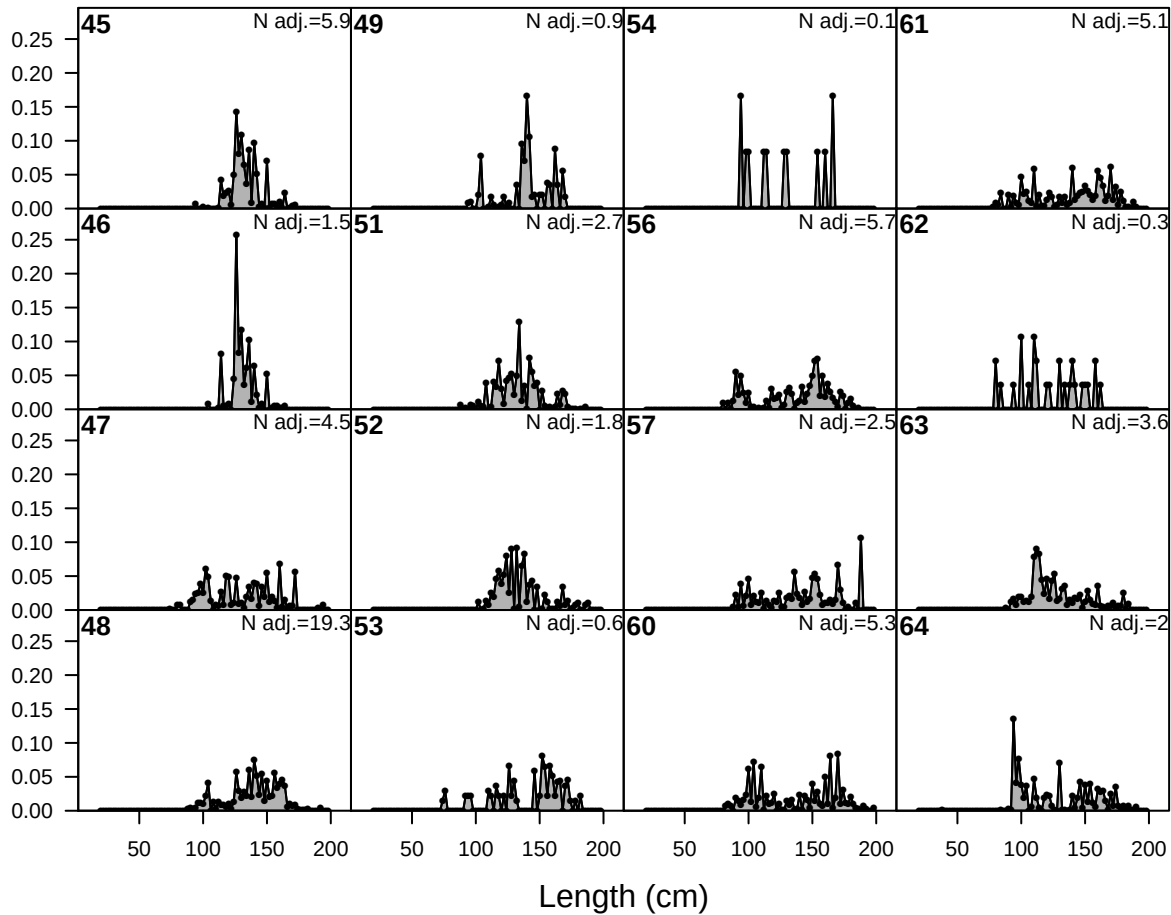




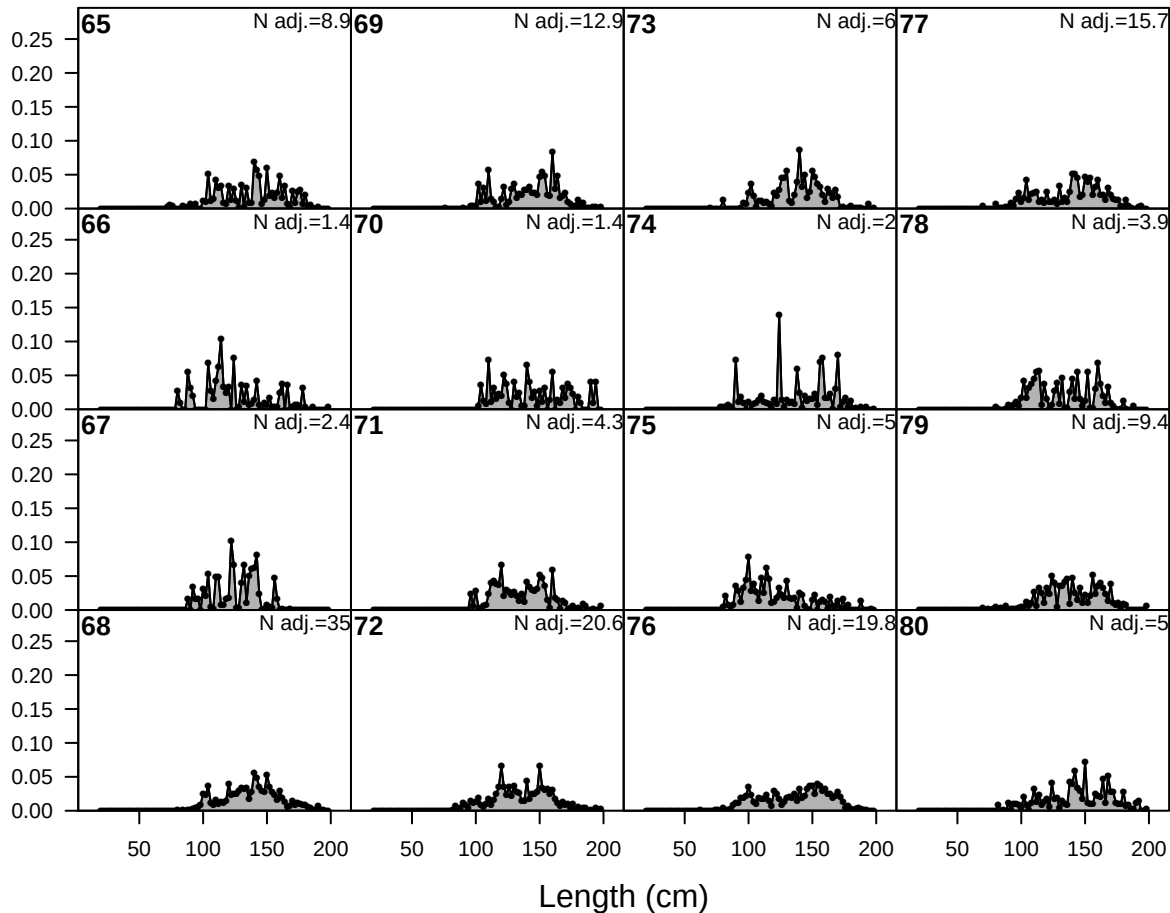
A3-LL-n (whole catch)

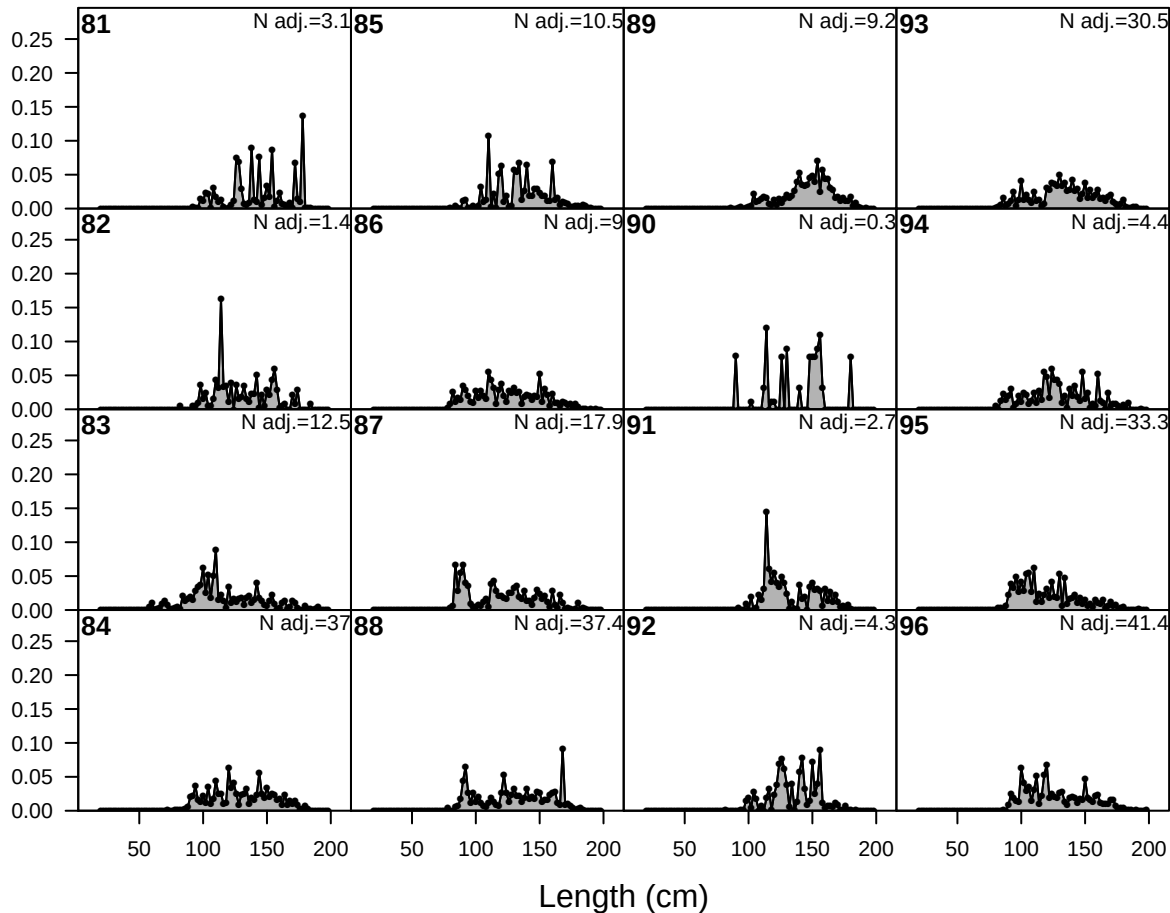


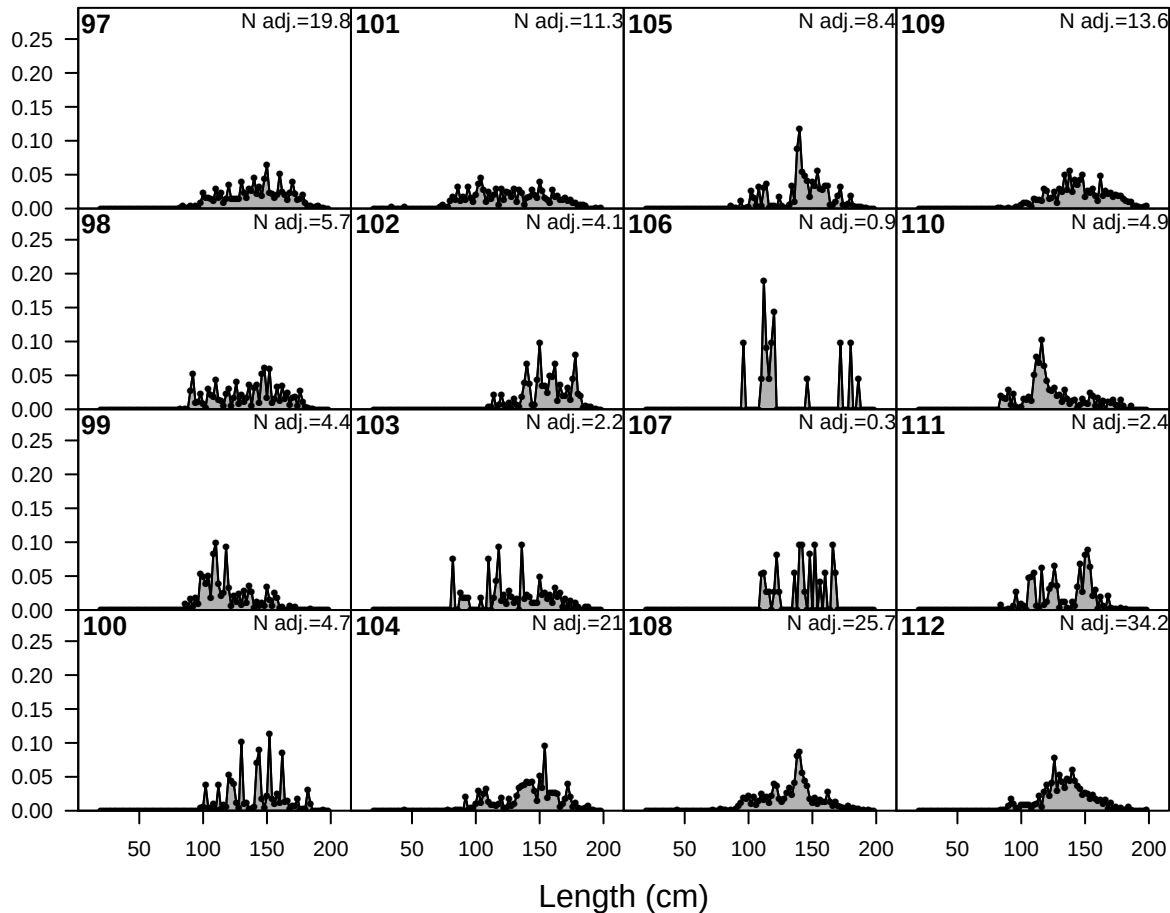
Proportion



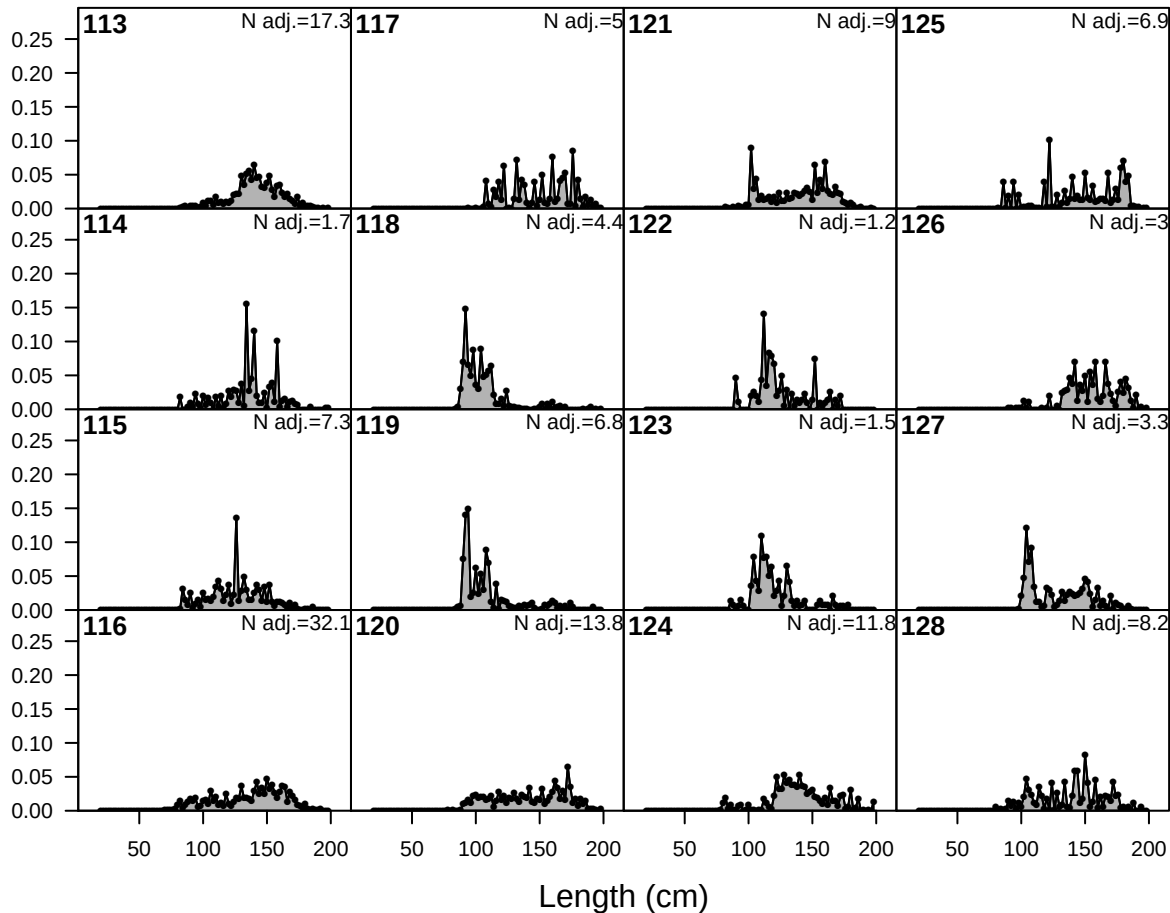
Proportion



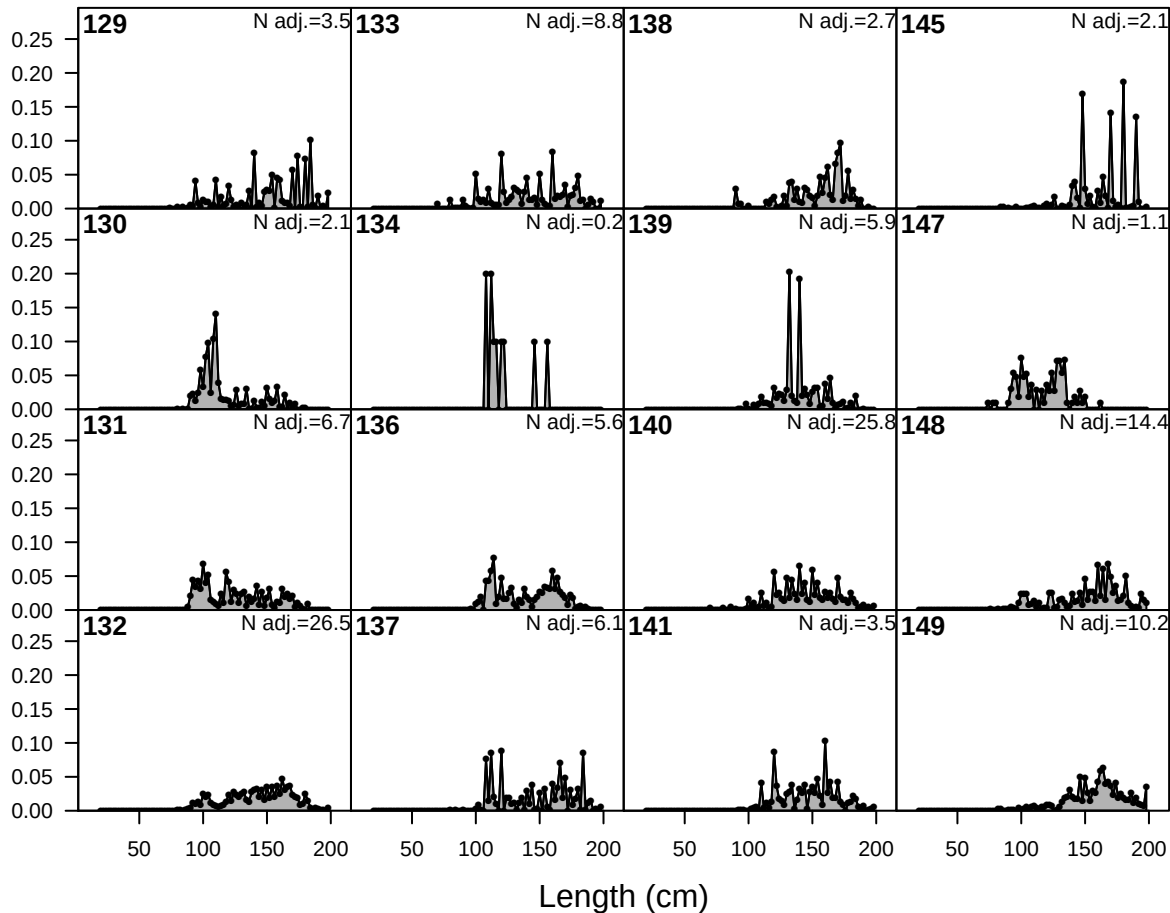




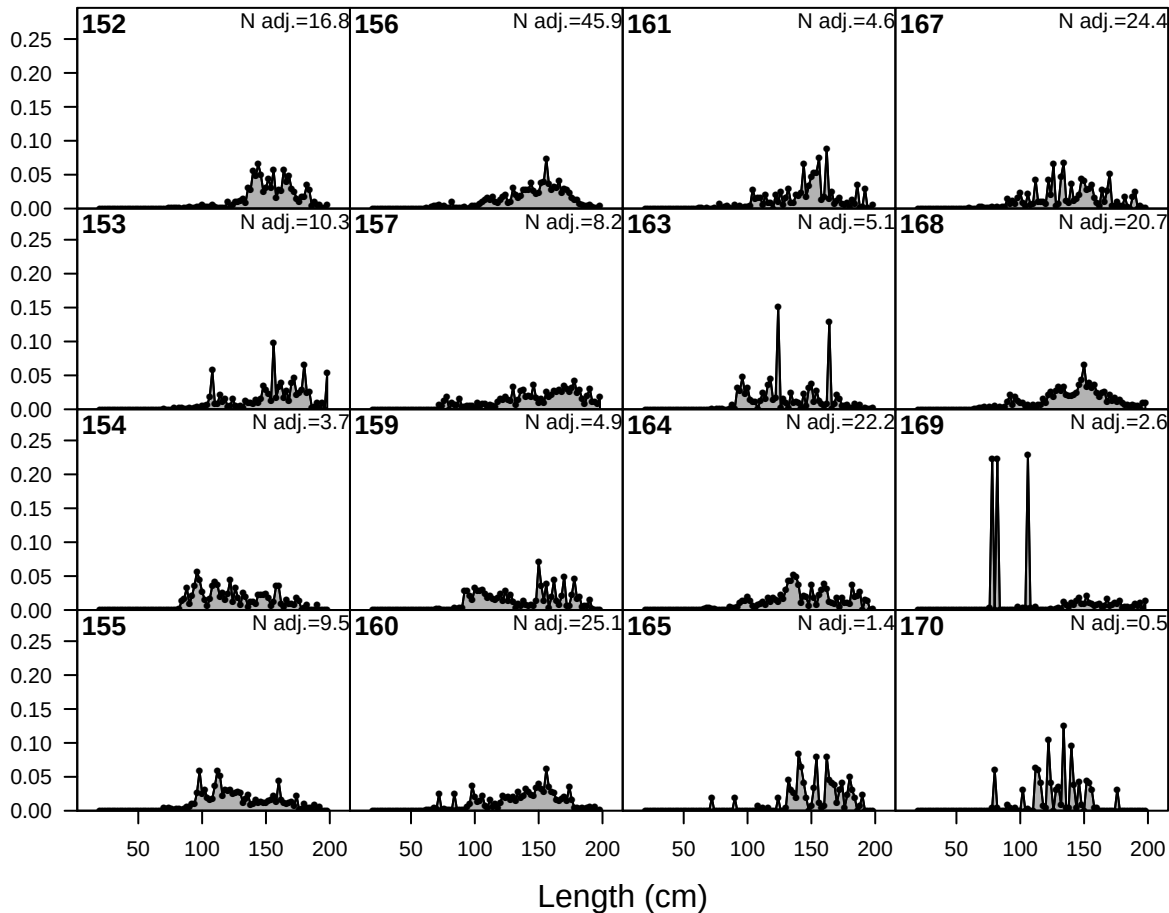
Proportion



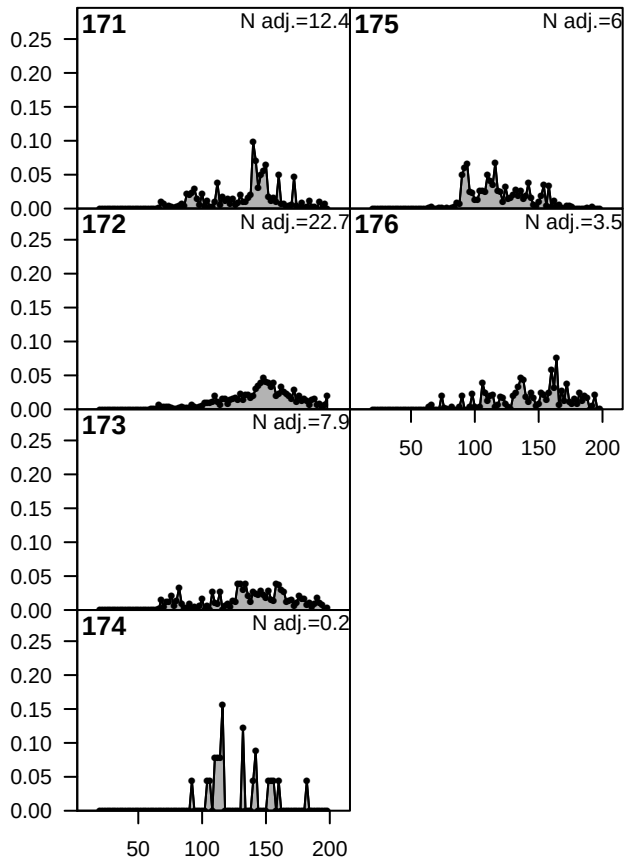
Proportion



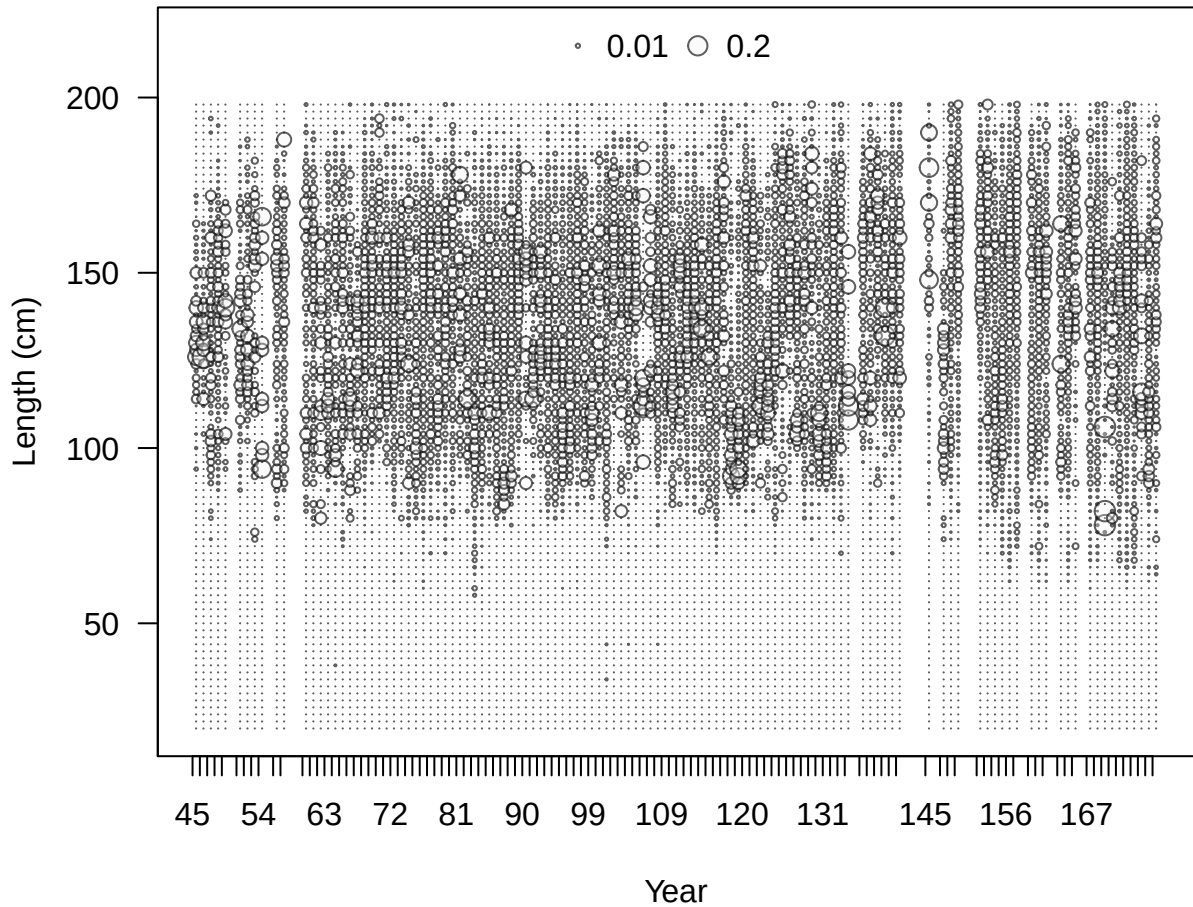
Proportion



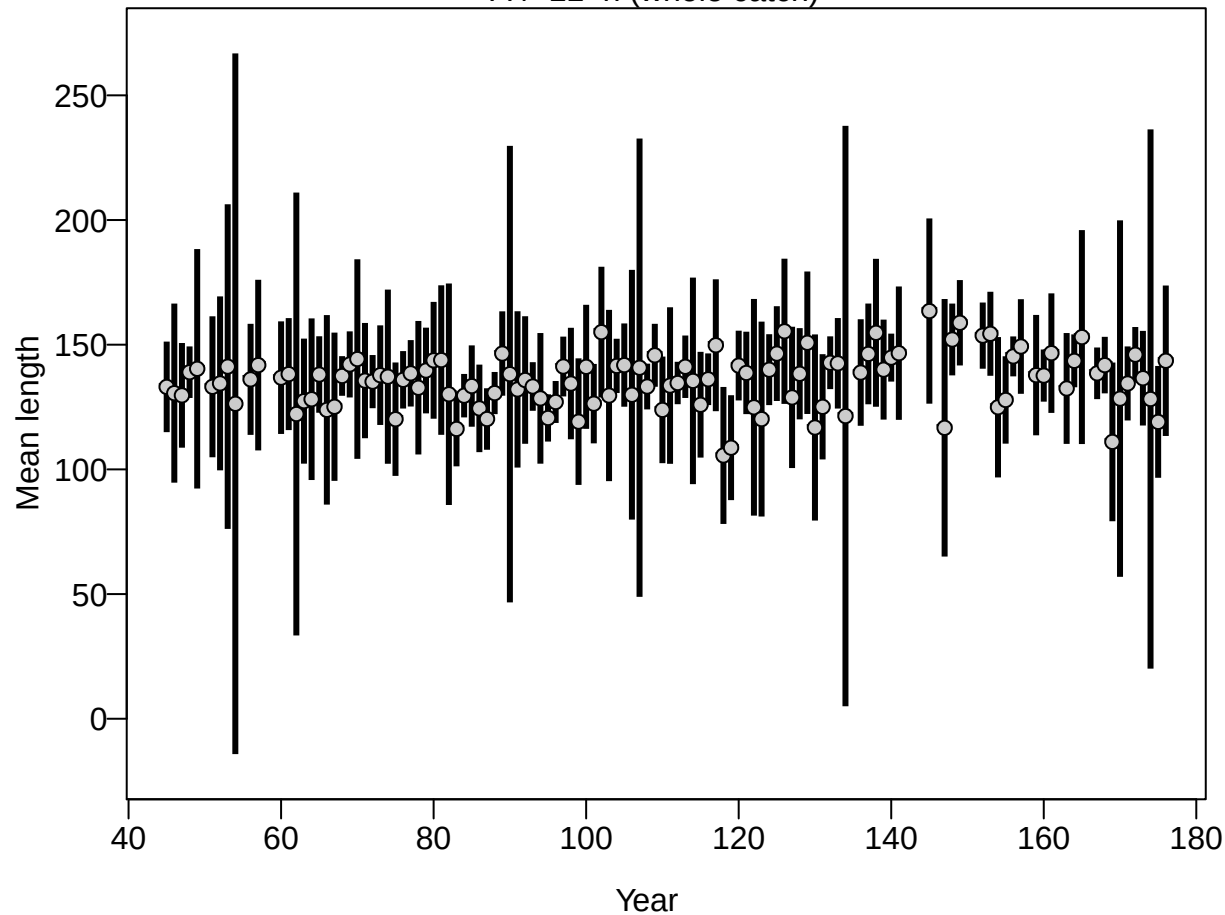
Proportion



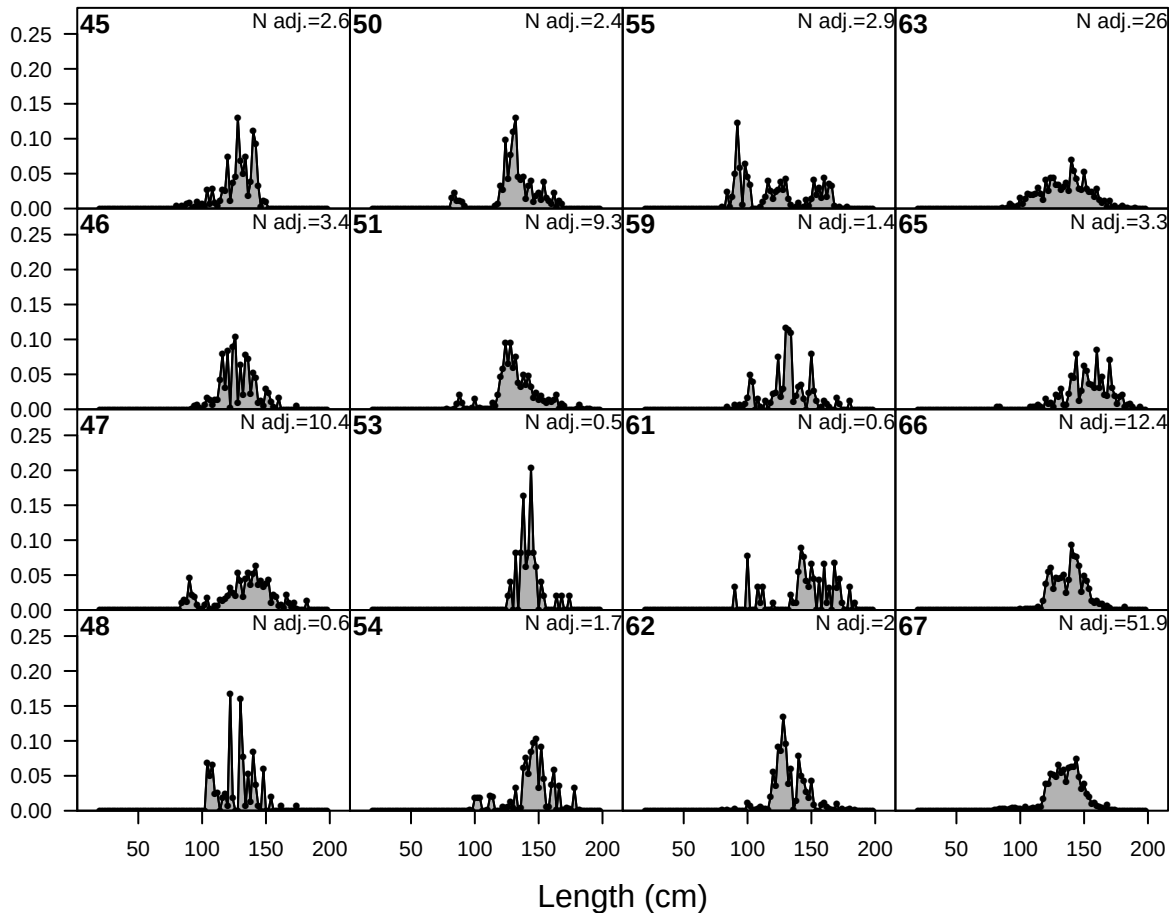
Length (cm)

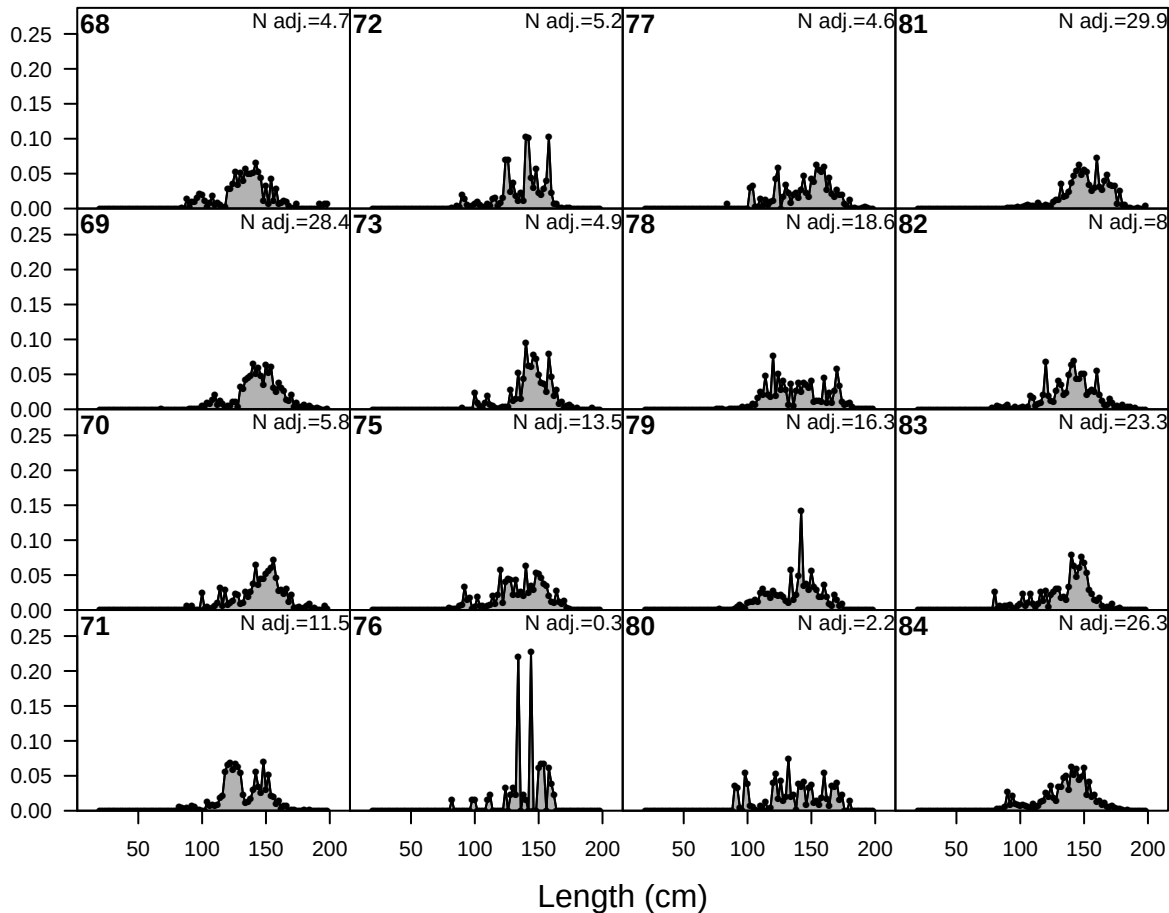


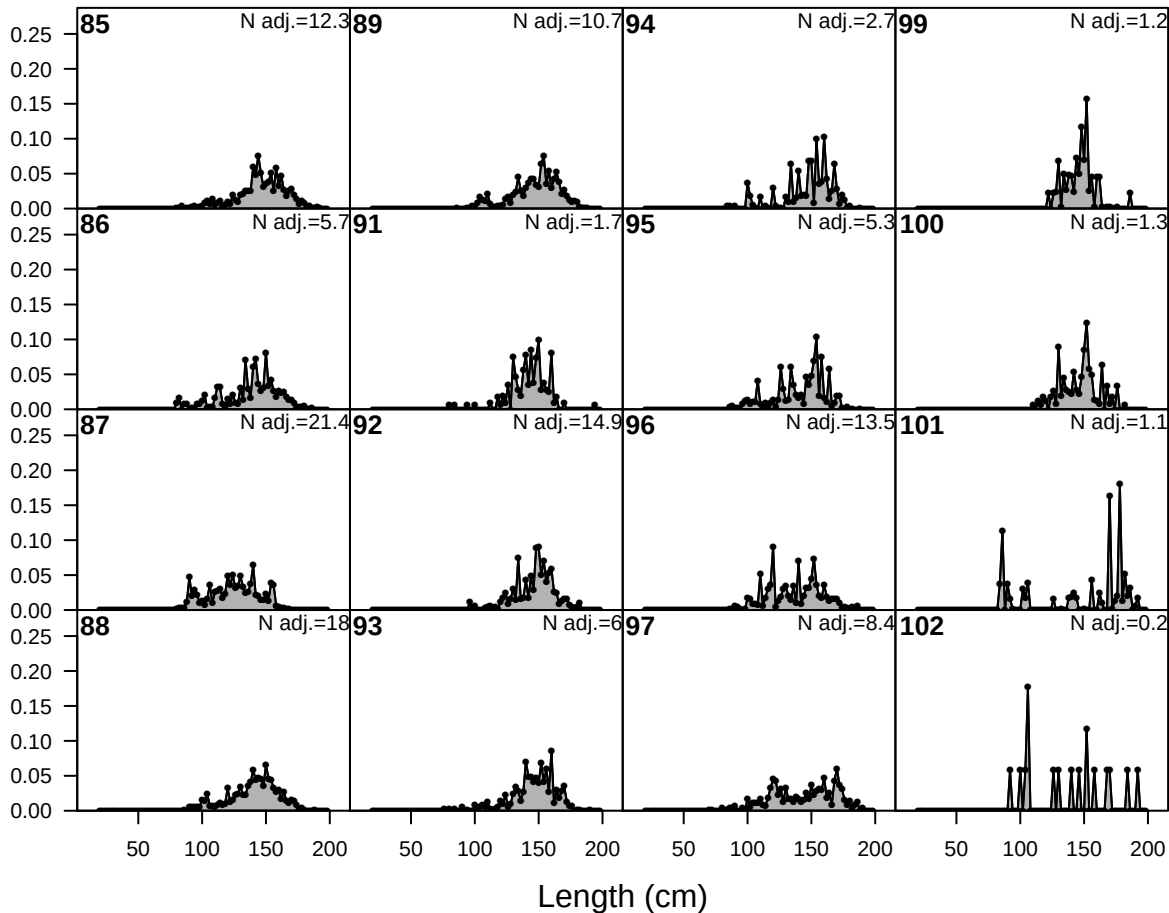
A4-LL-n (whole catch)

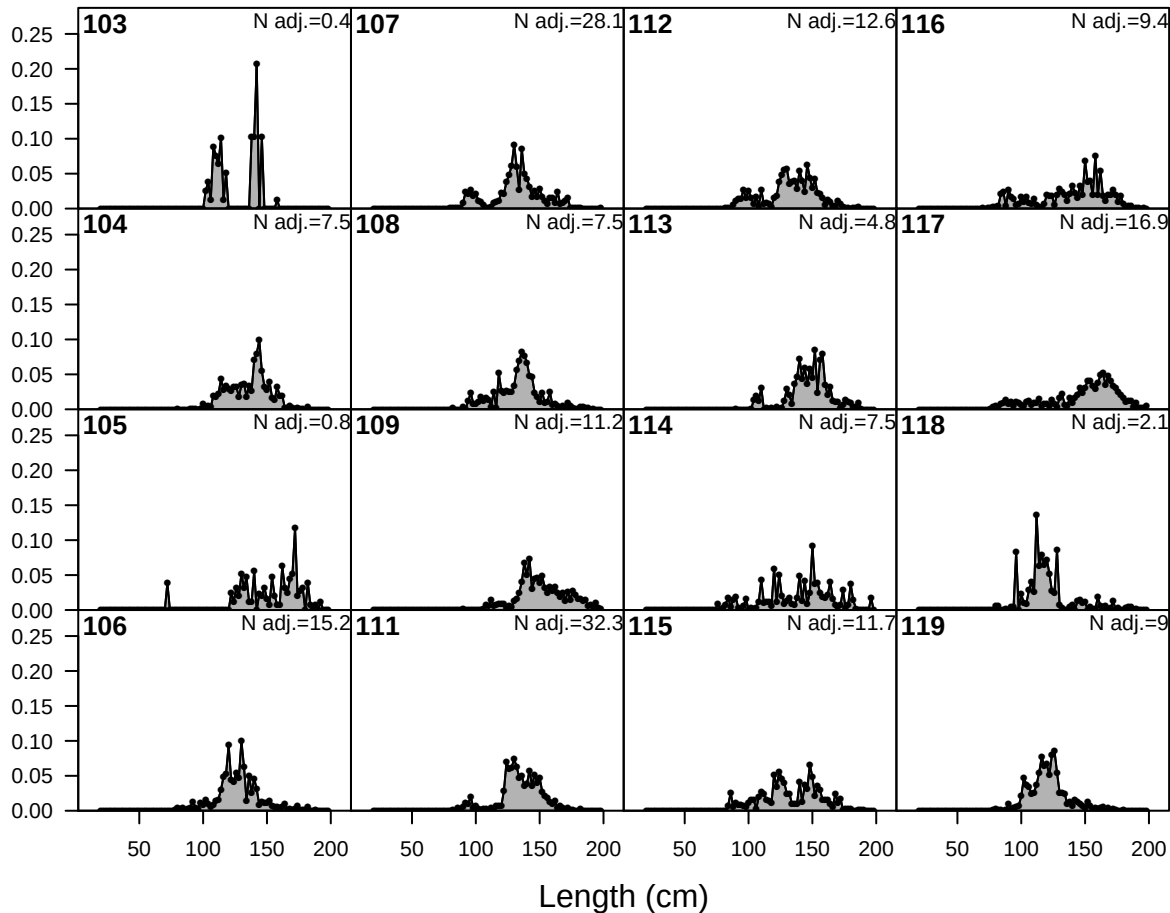


Proportion

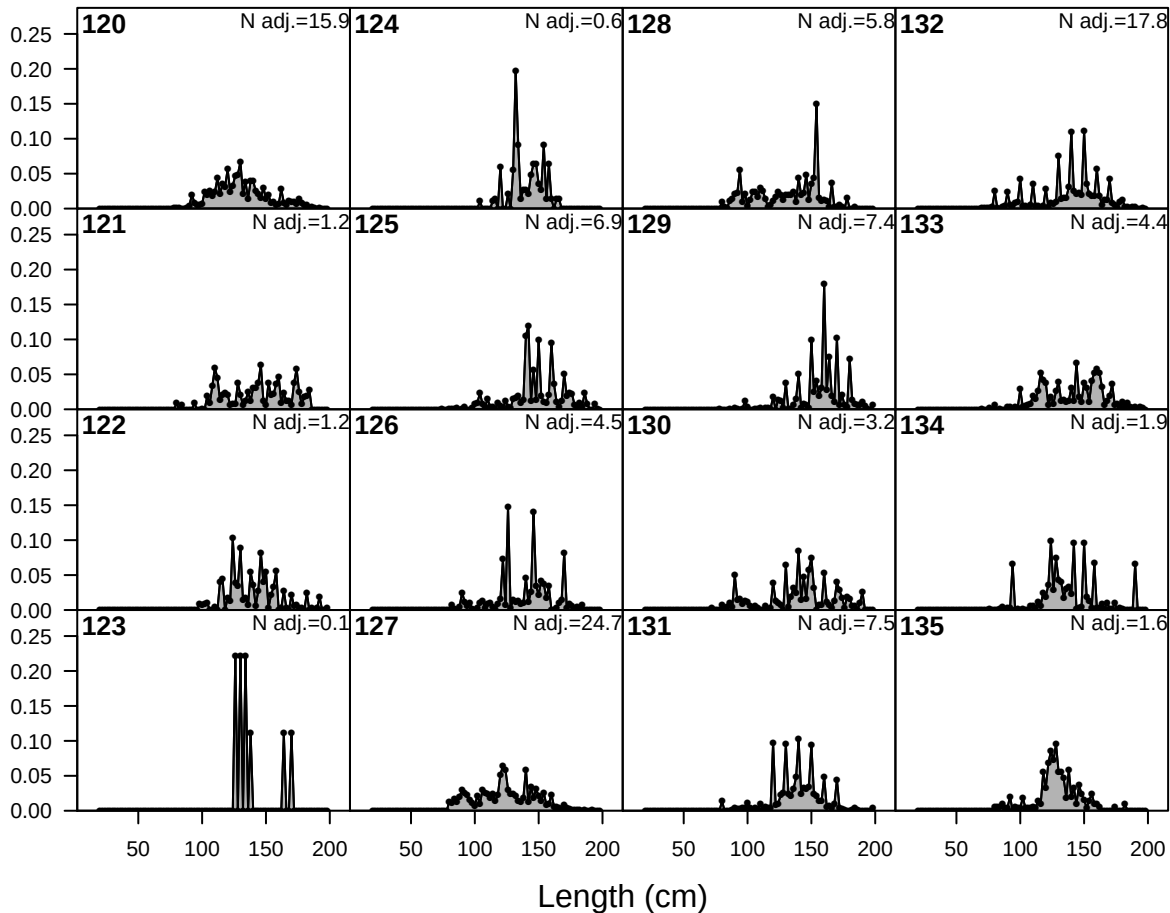


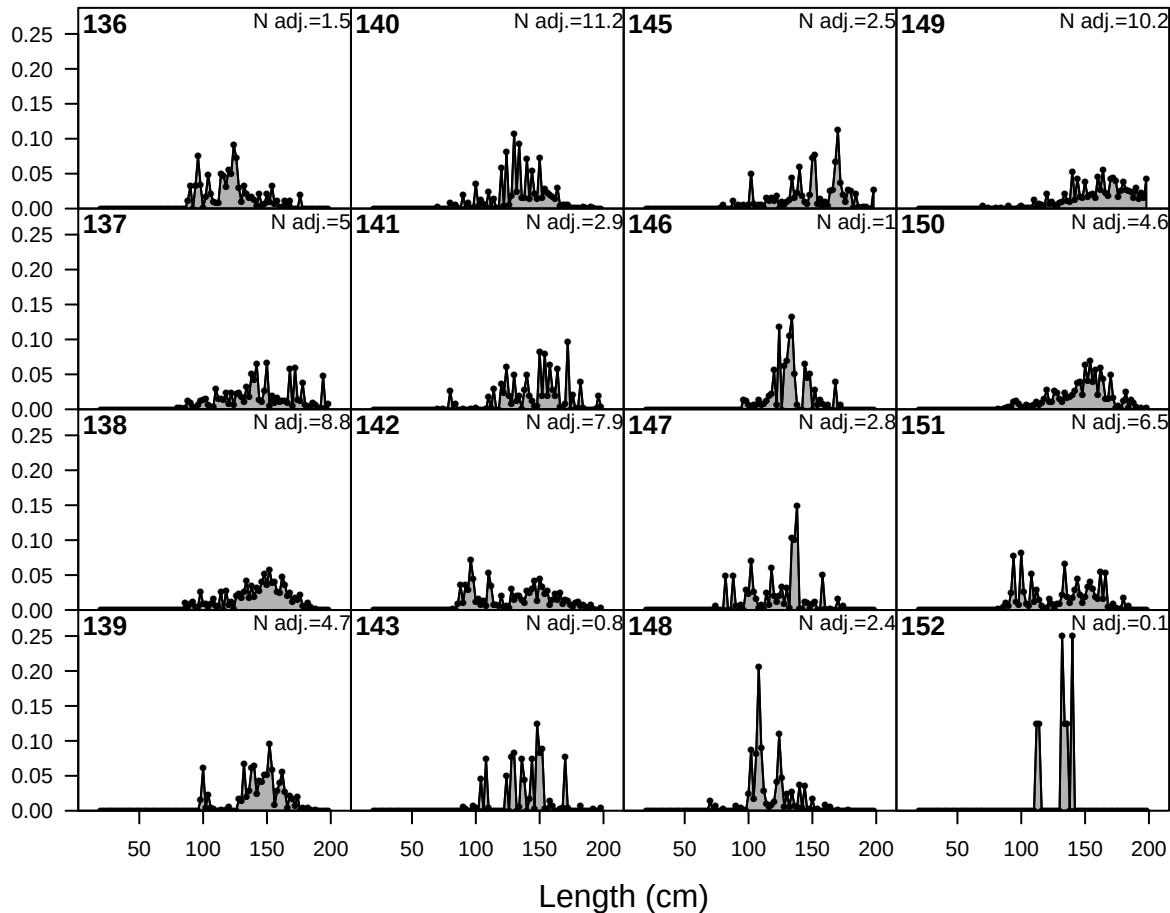


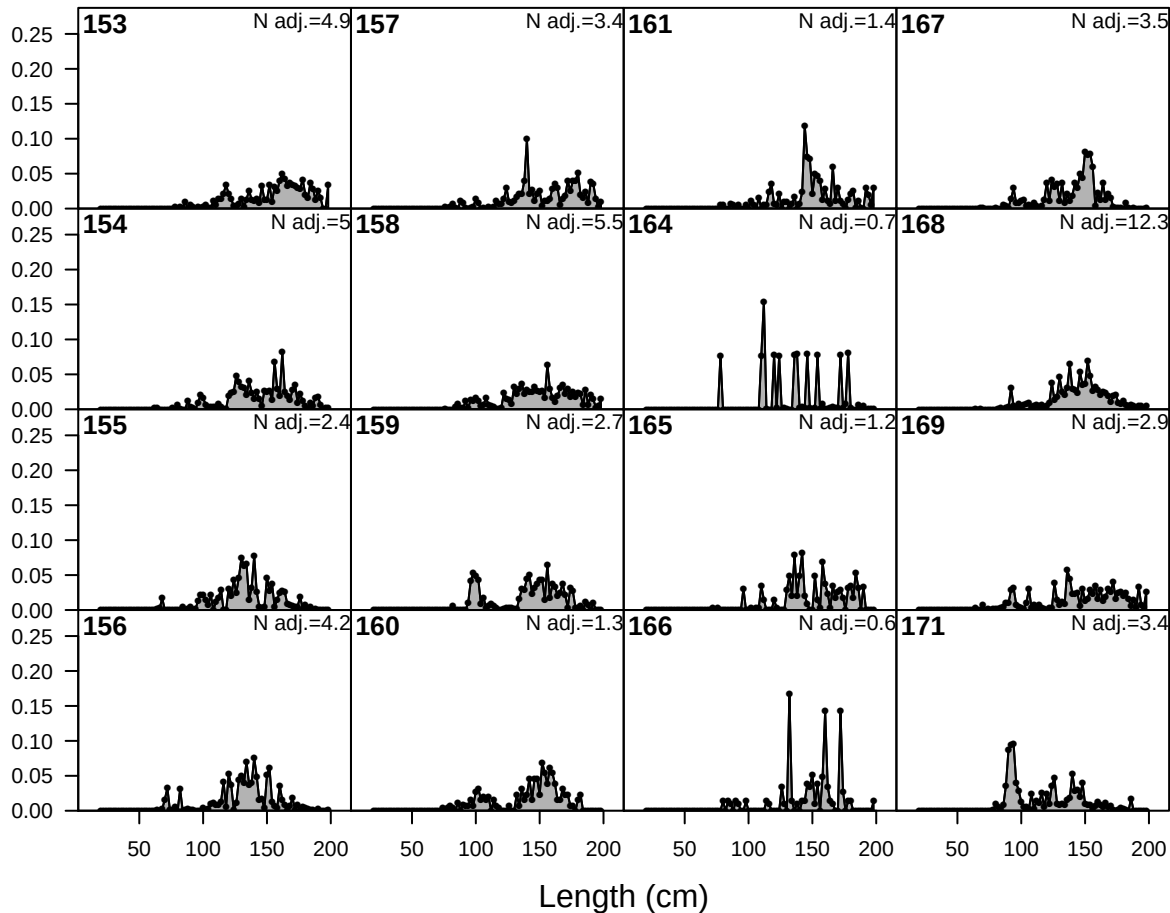




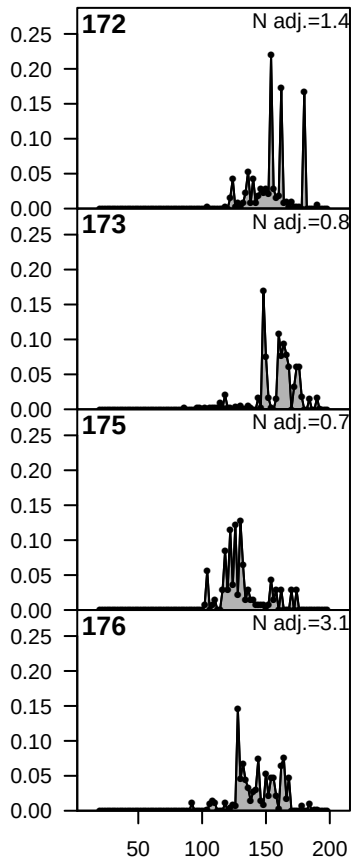
Proportion



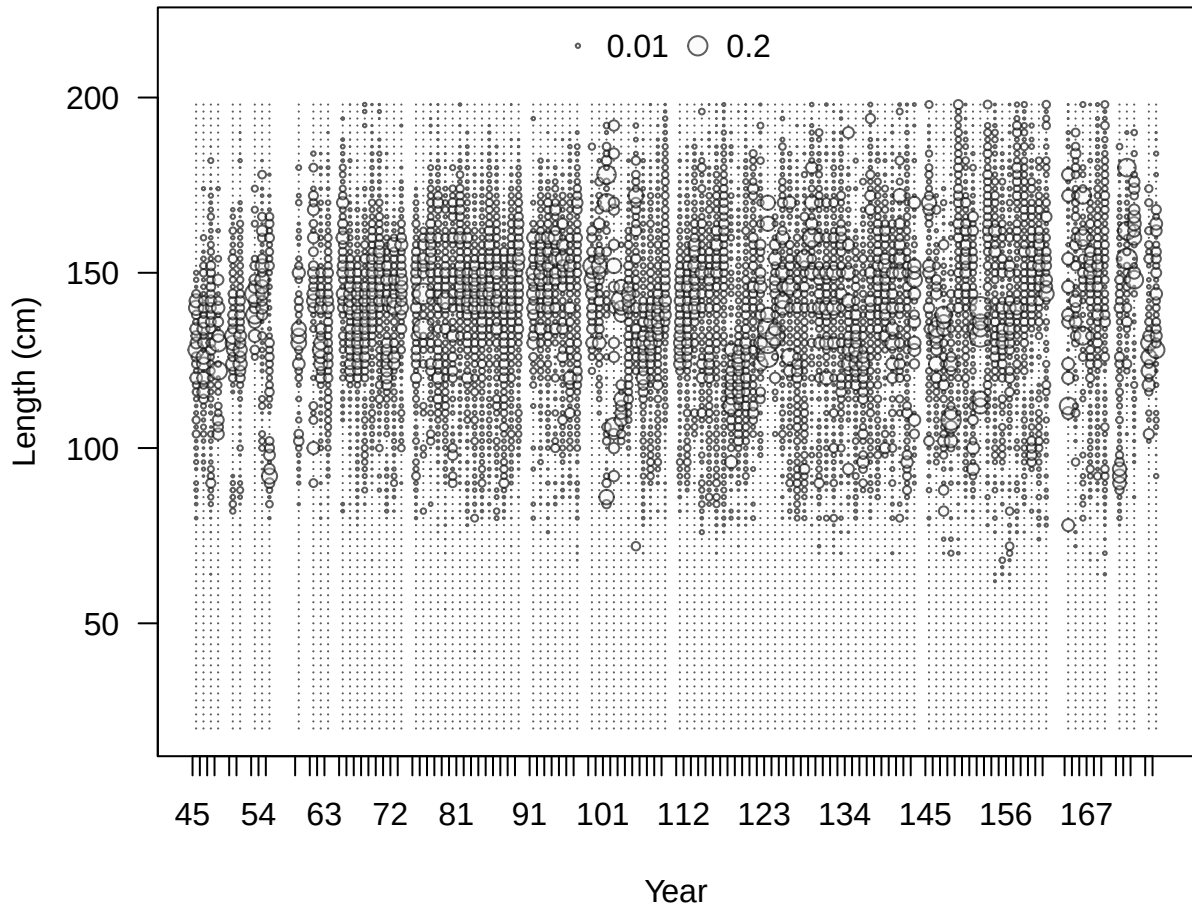




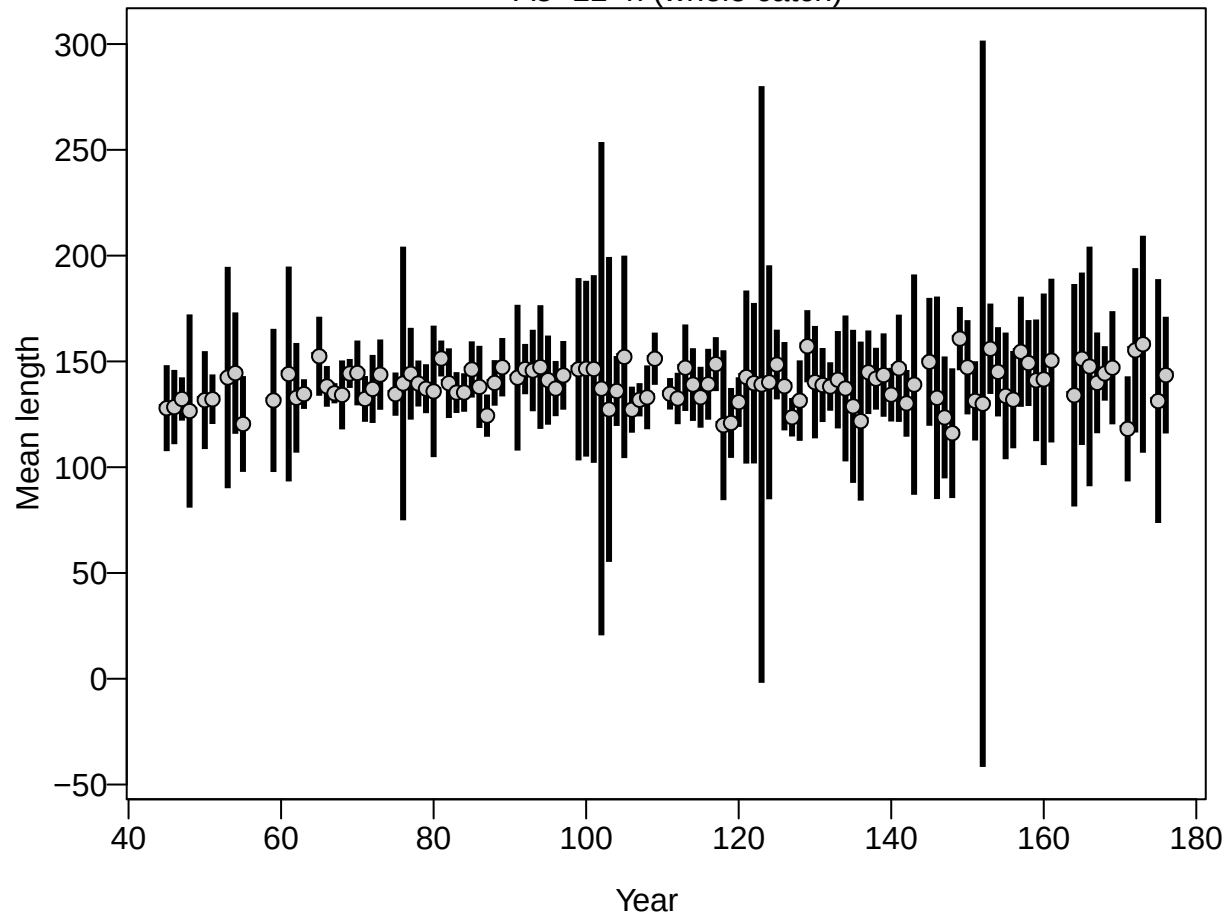
Proportion



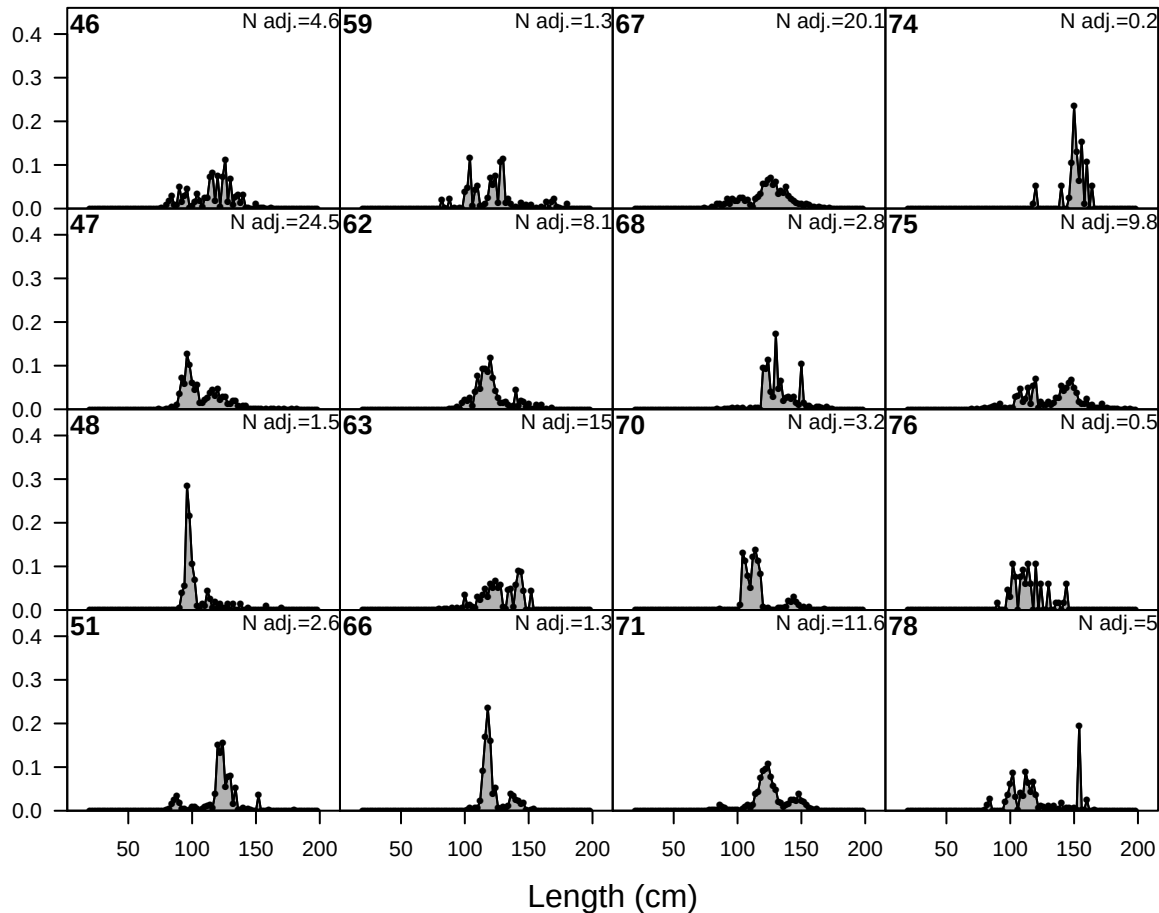
Length (cm)



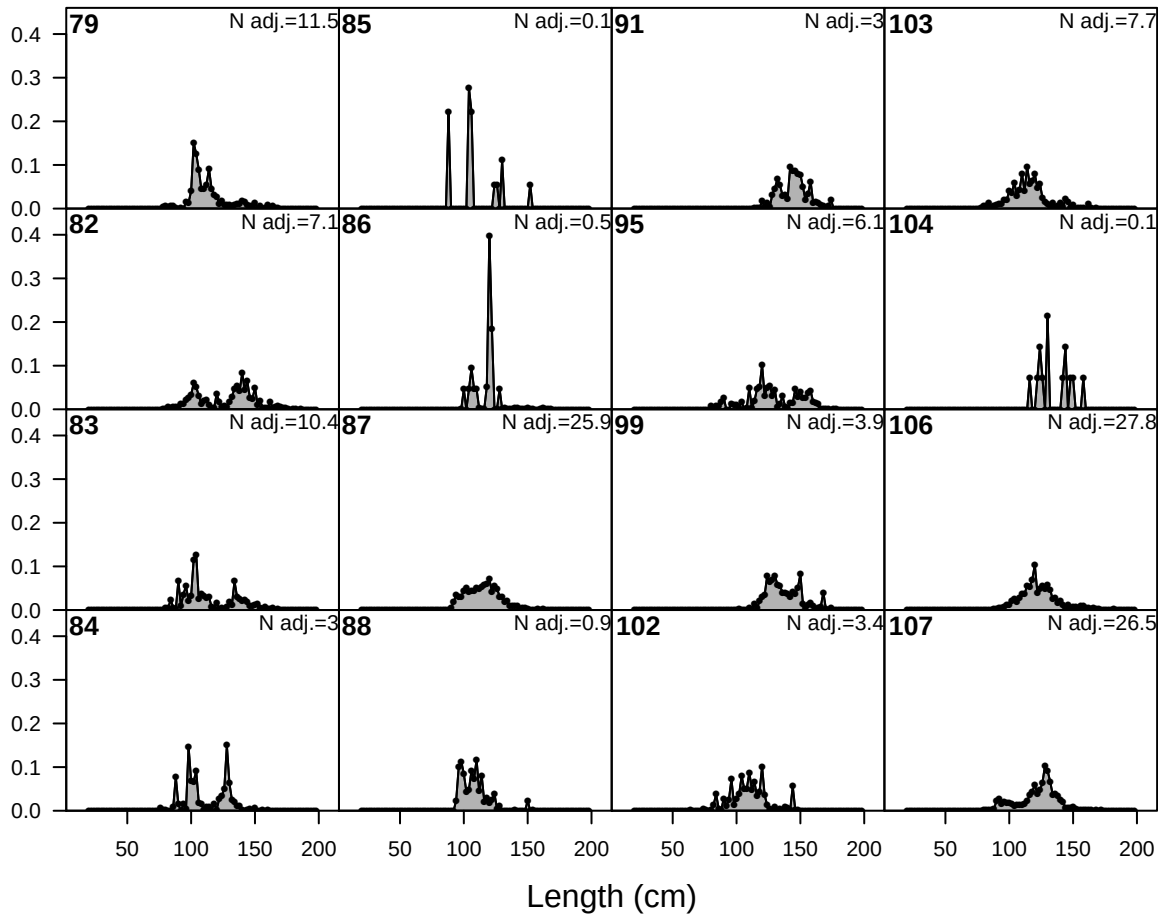
A5-LL-n (whole catch)



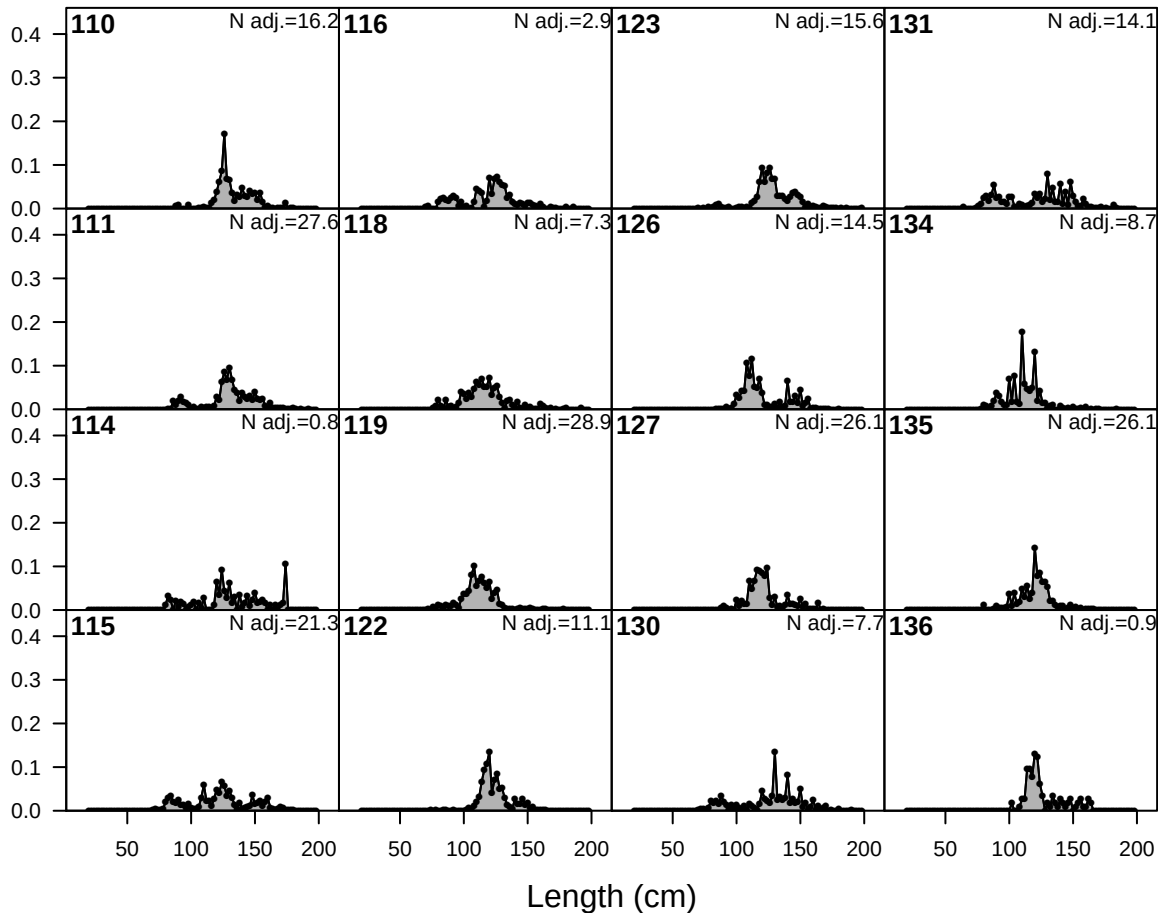
Proportion



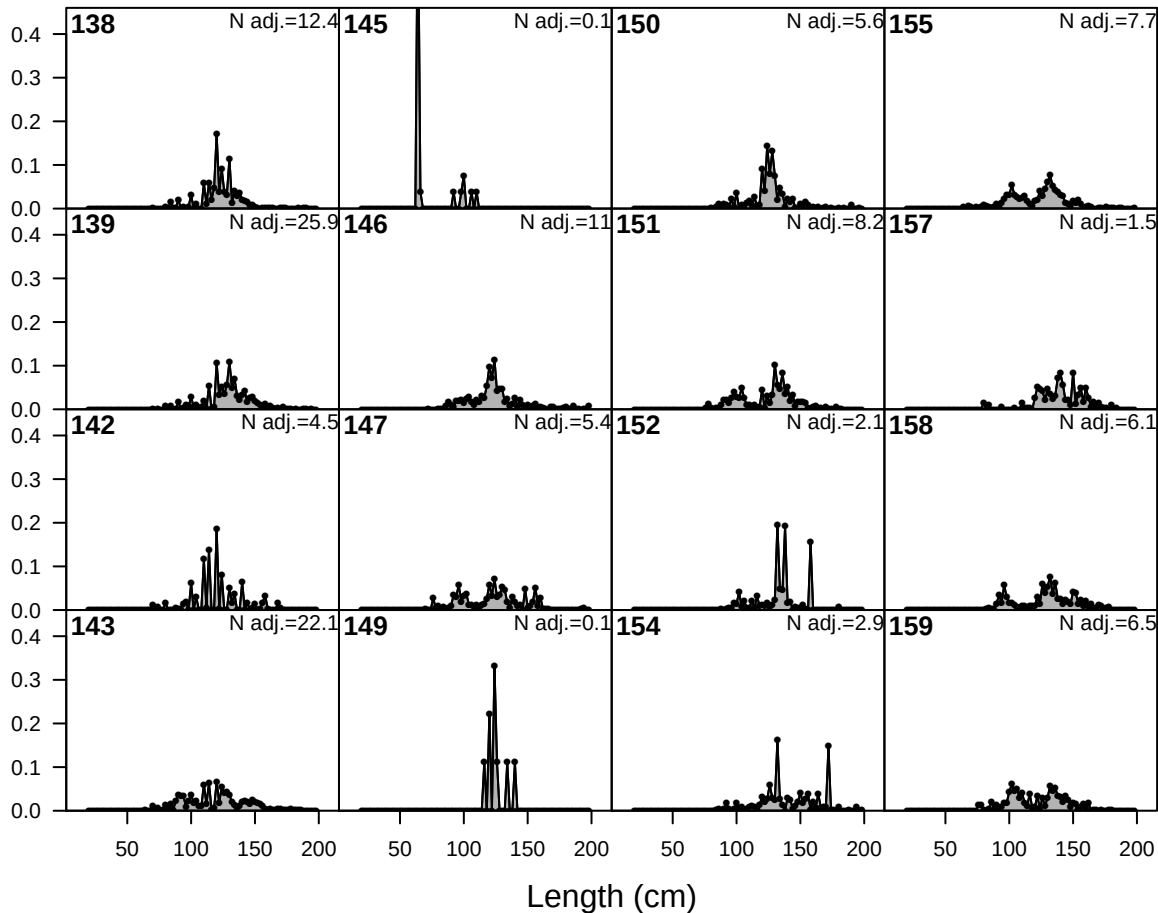
Proportion



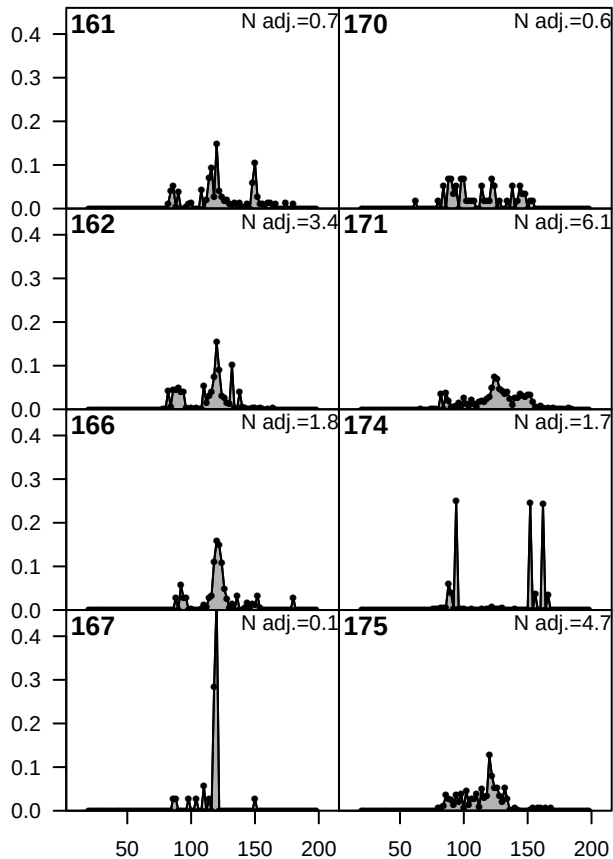
Proportion



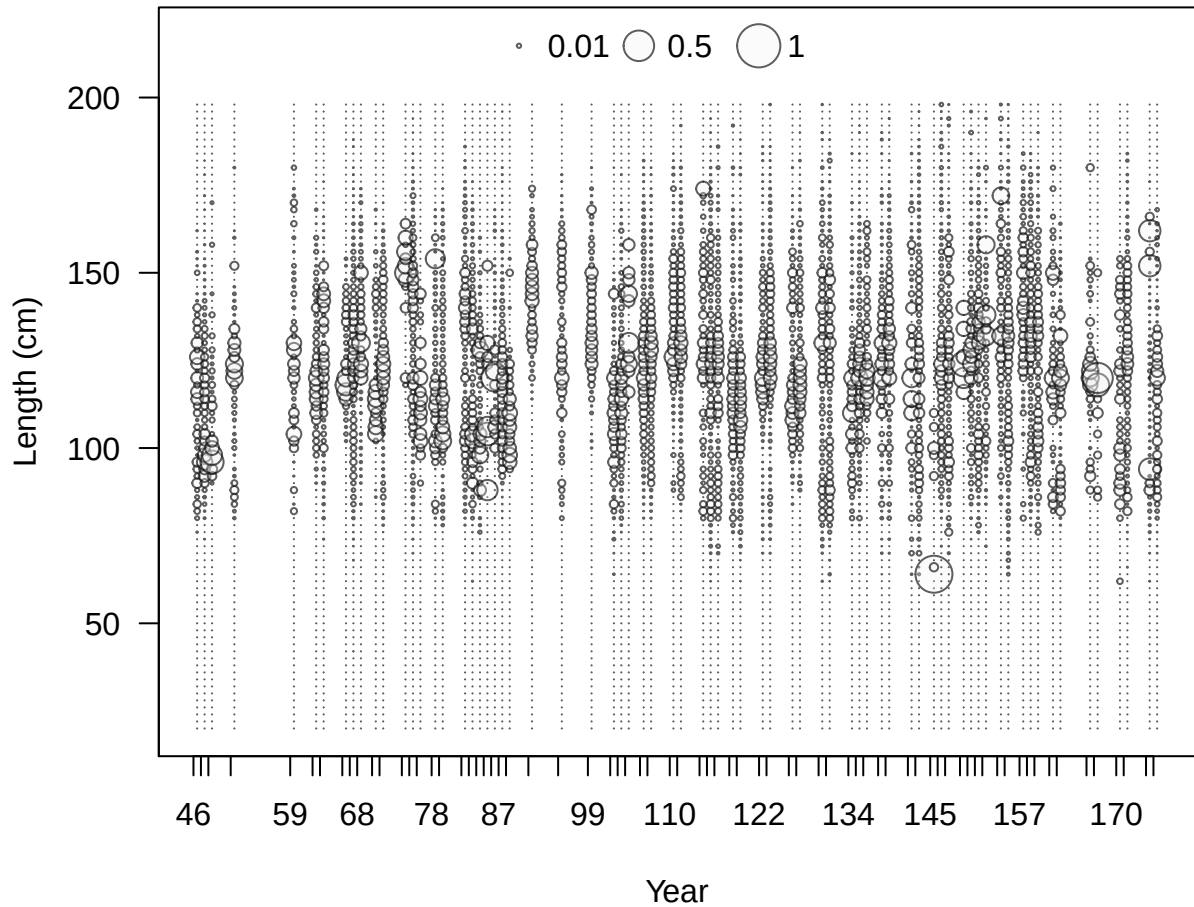
Proportion



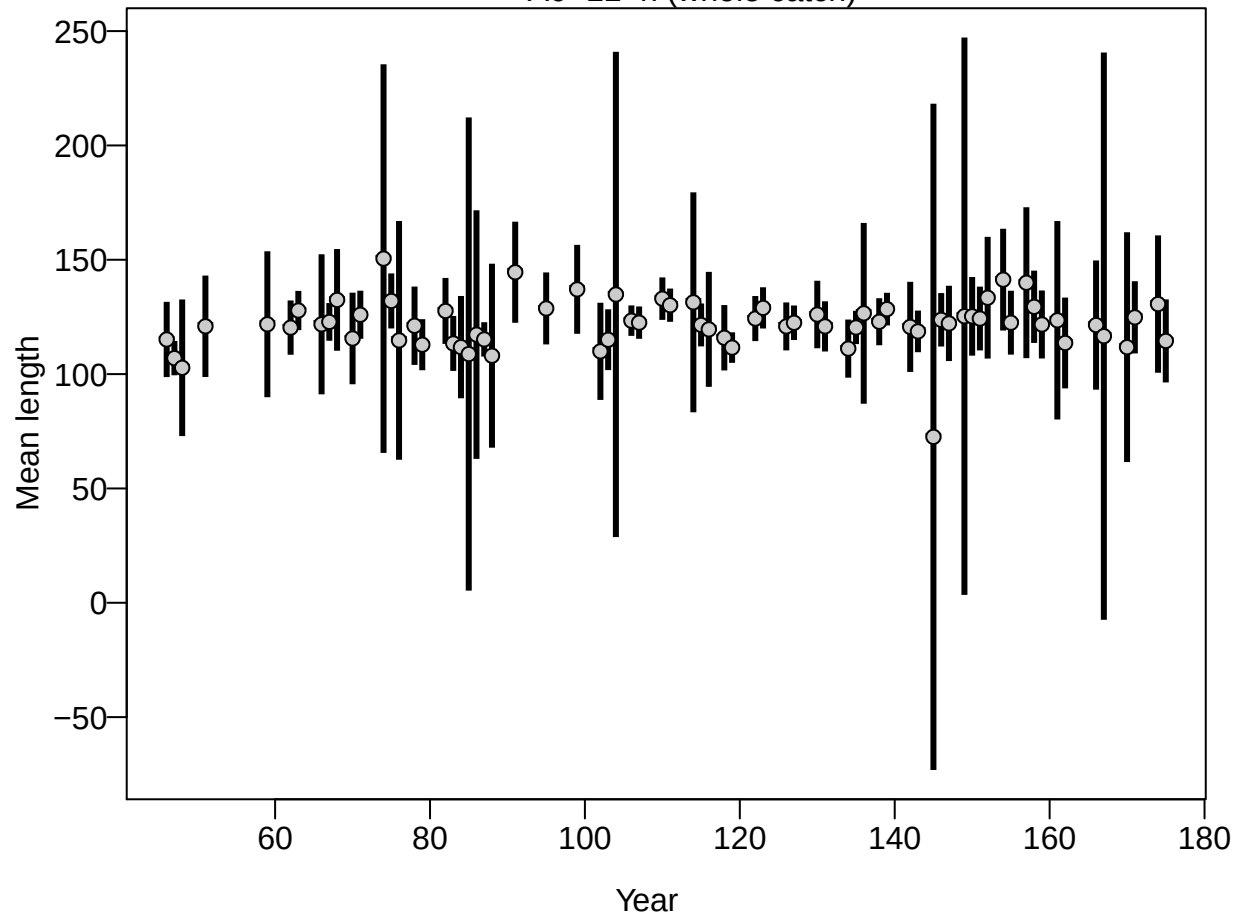
Proportion



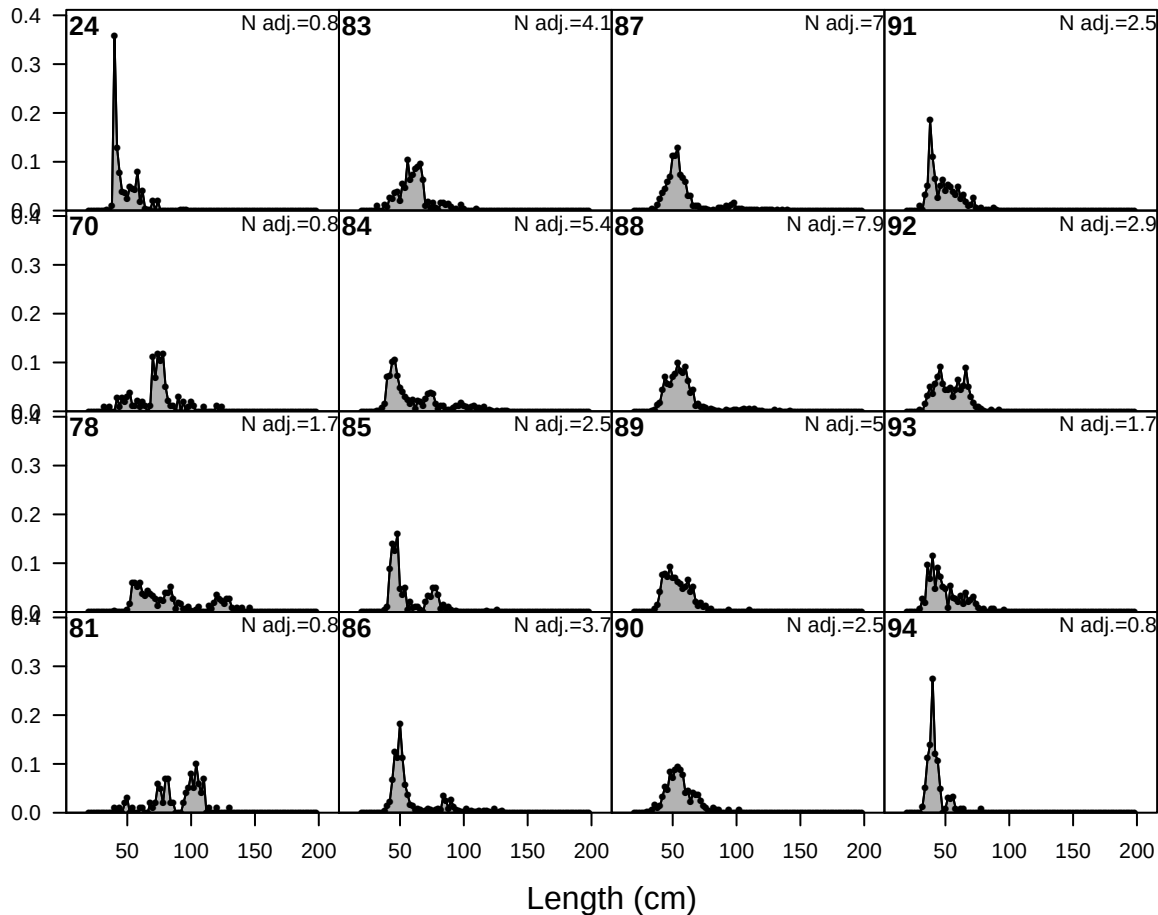
Length (cm)



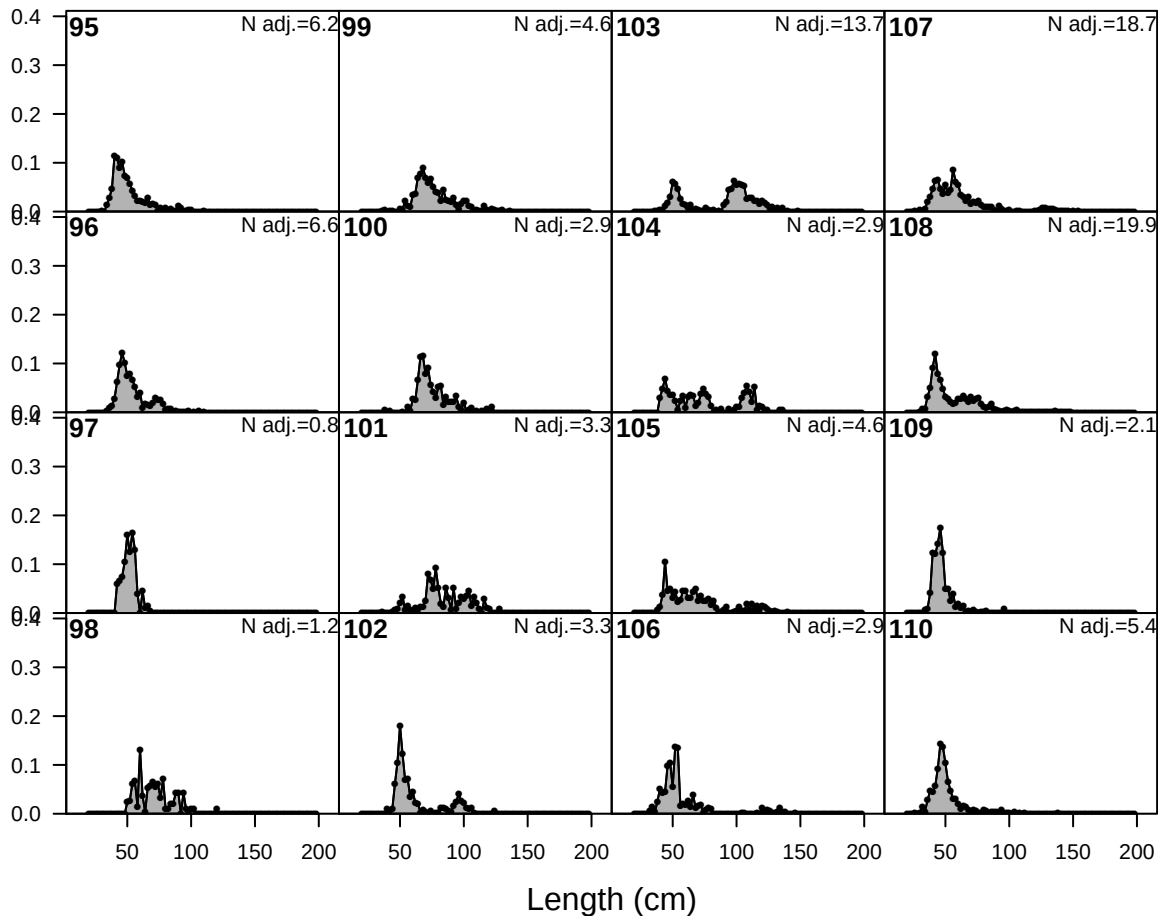
A6-LL-n (whole catch)



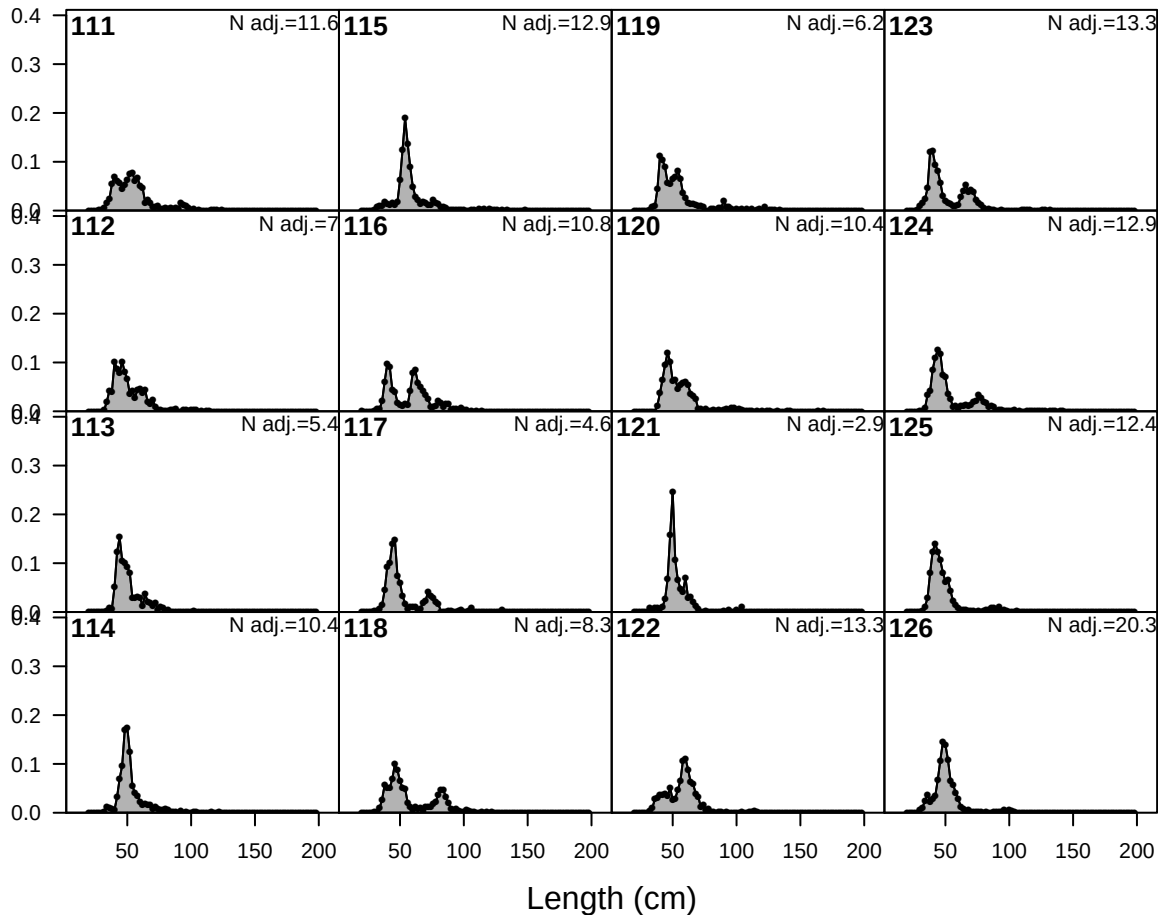
Proportion



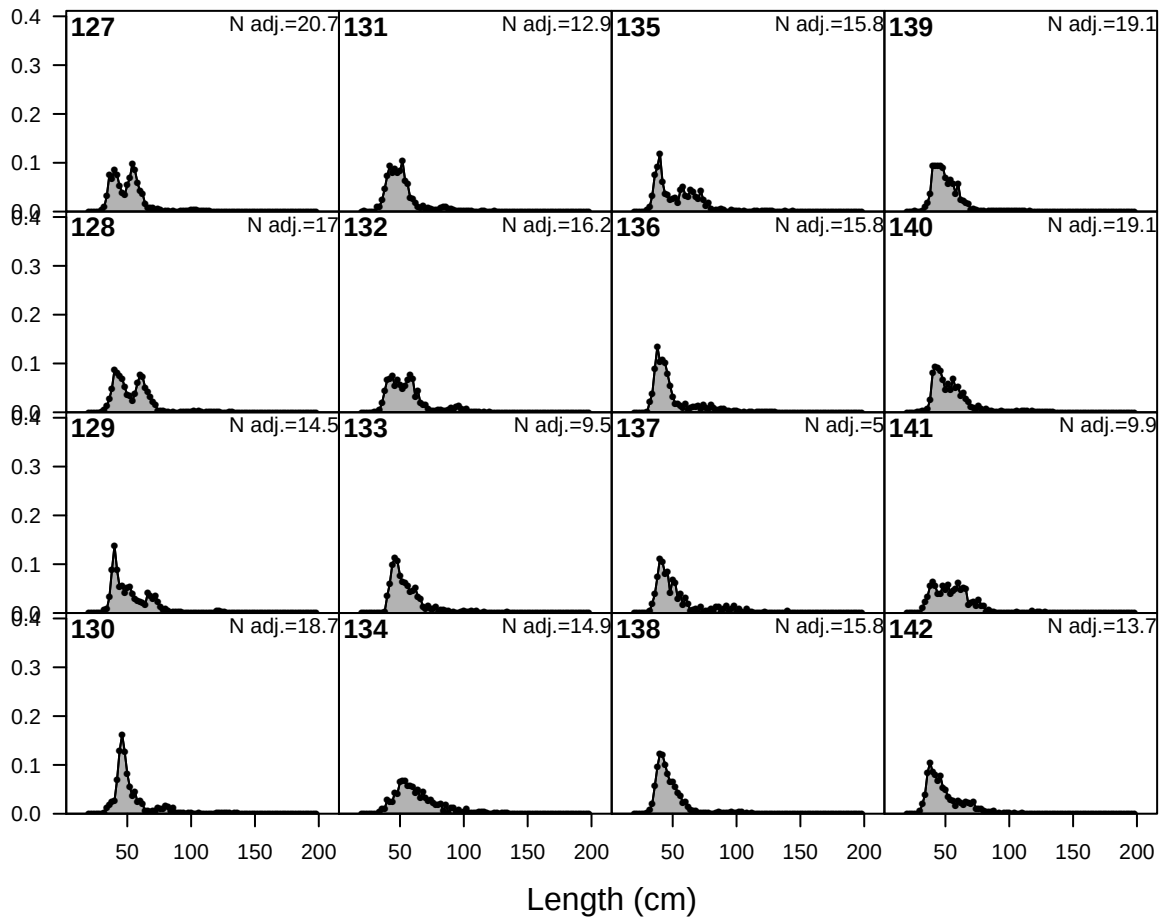
Proportion

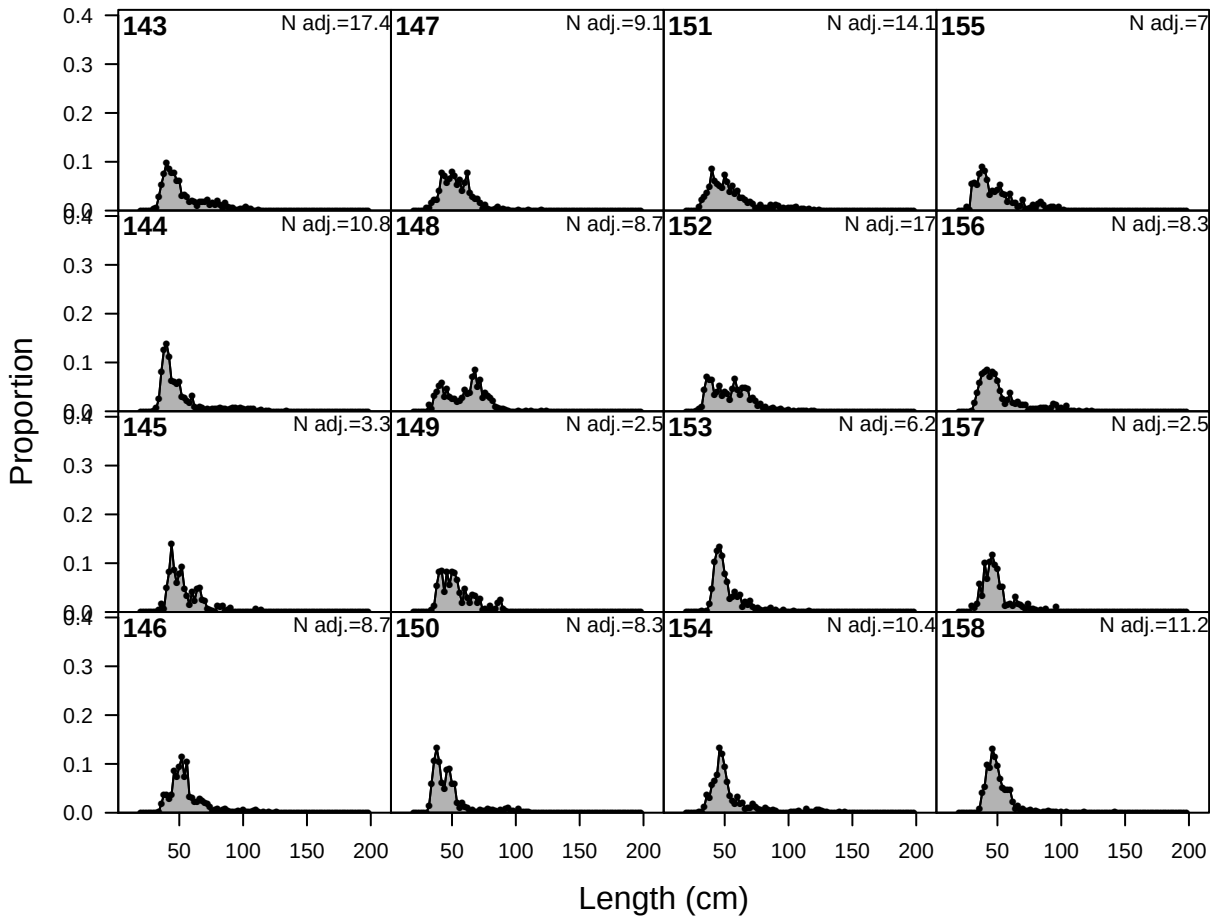


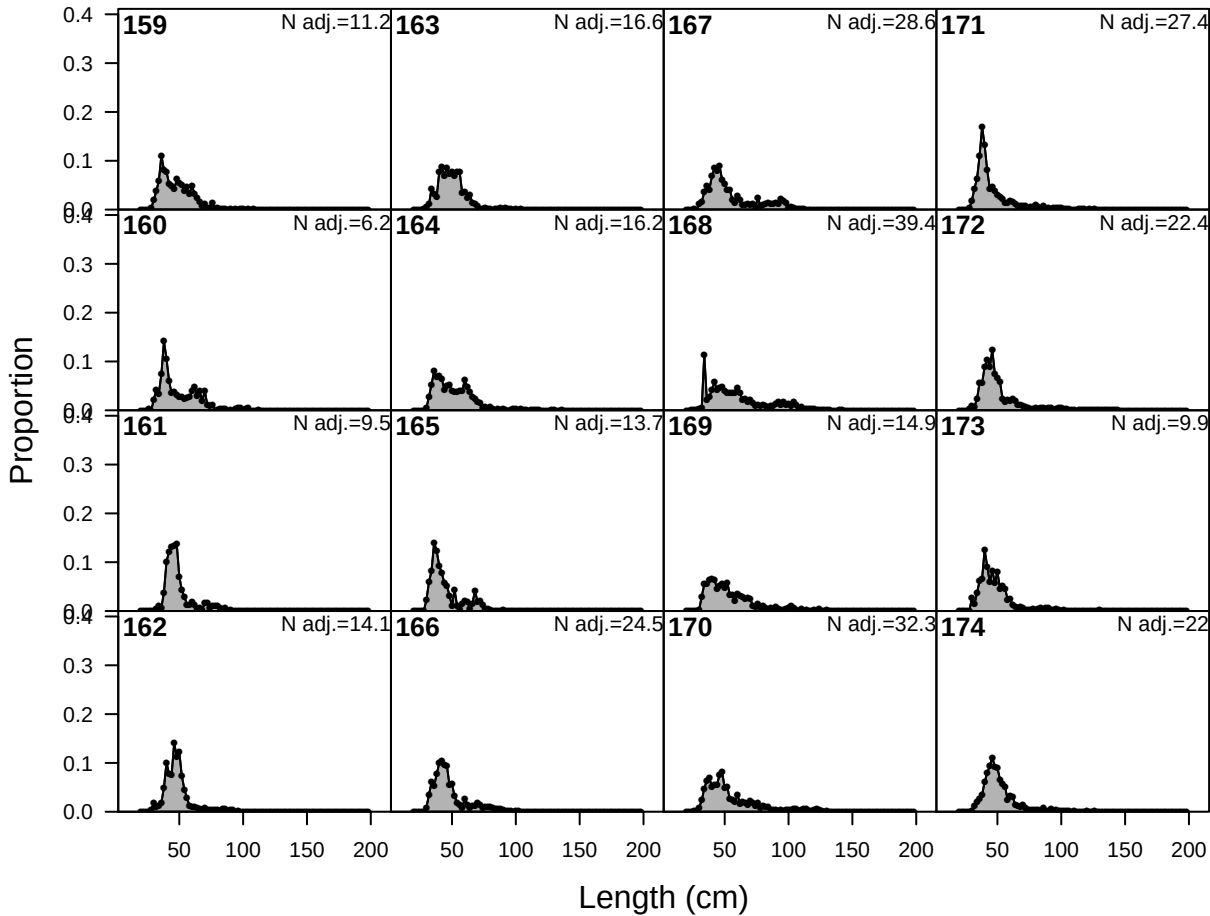
Proportion

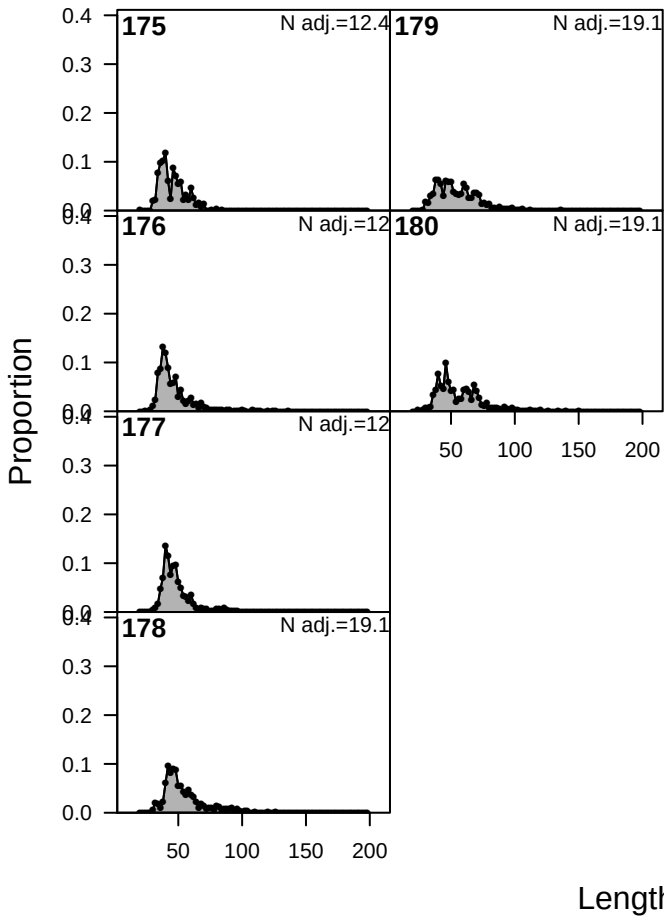


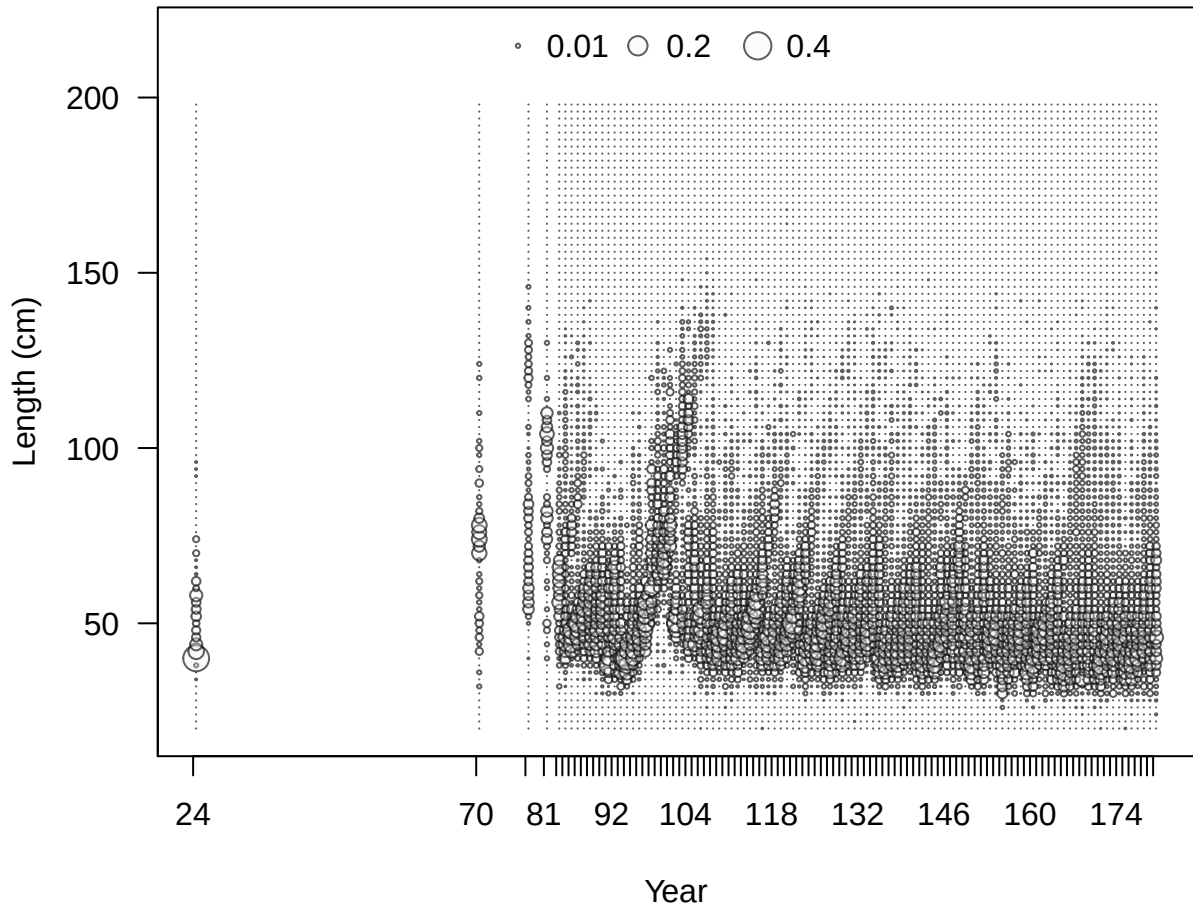
Proportion



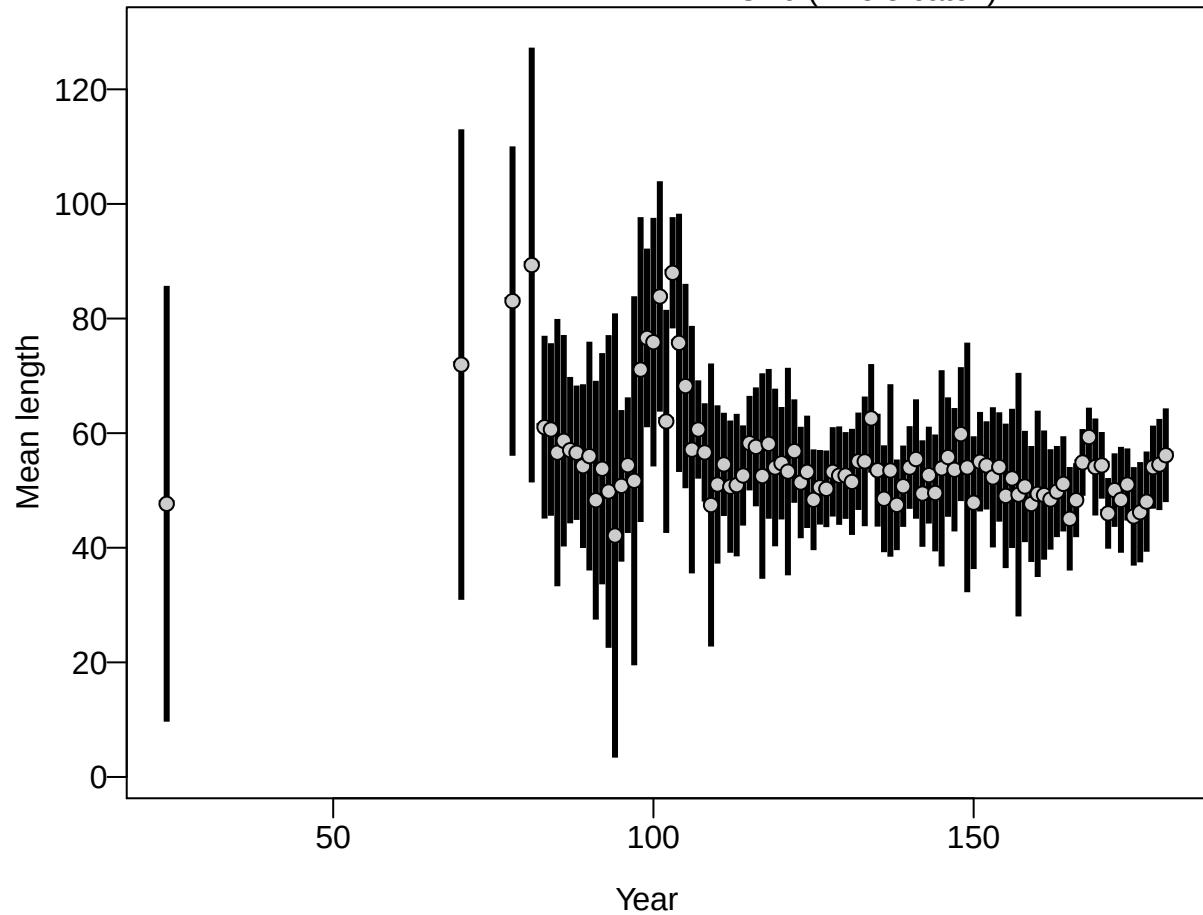




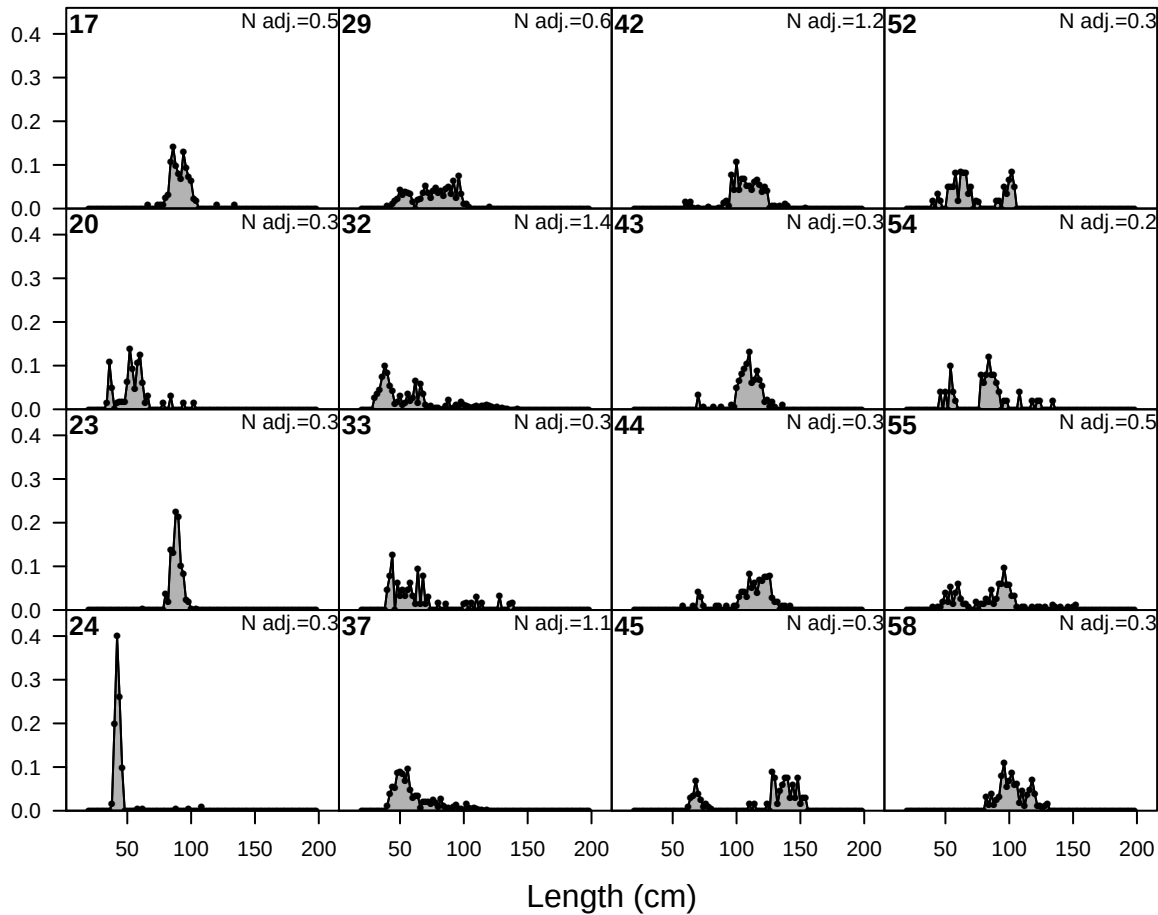




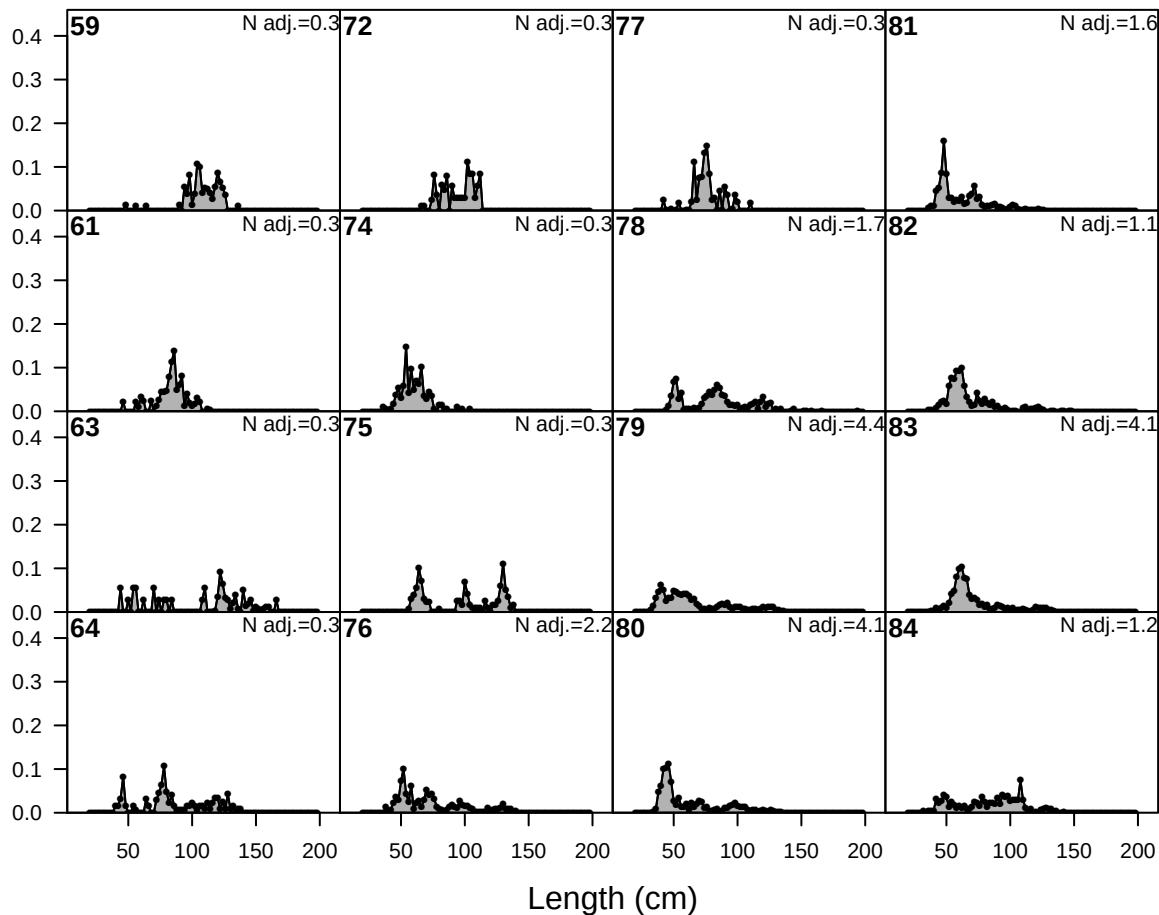
A2-OBJ (whole catch)



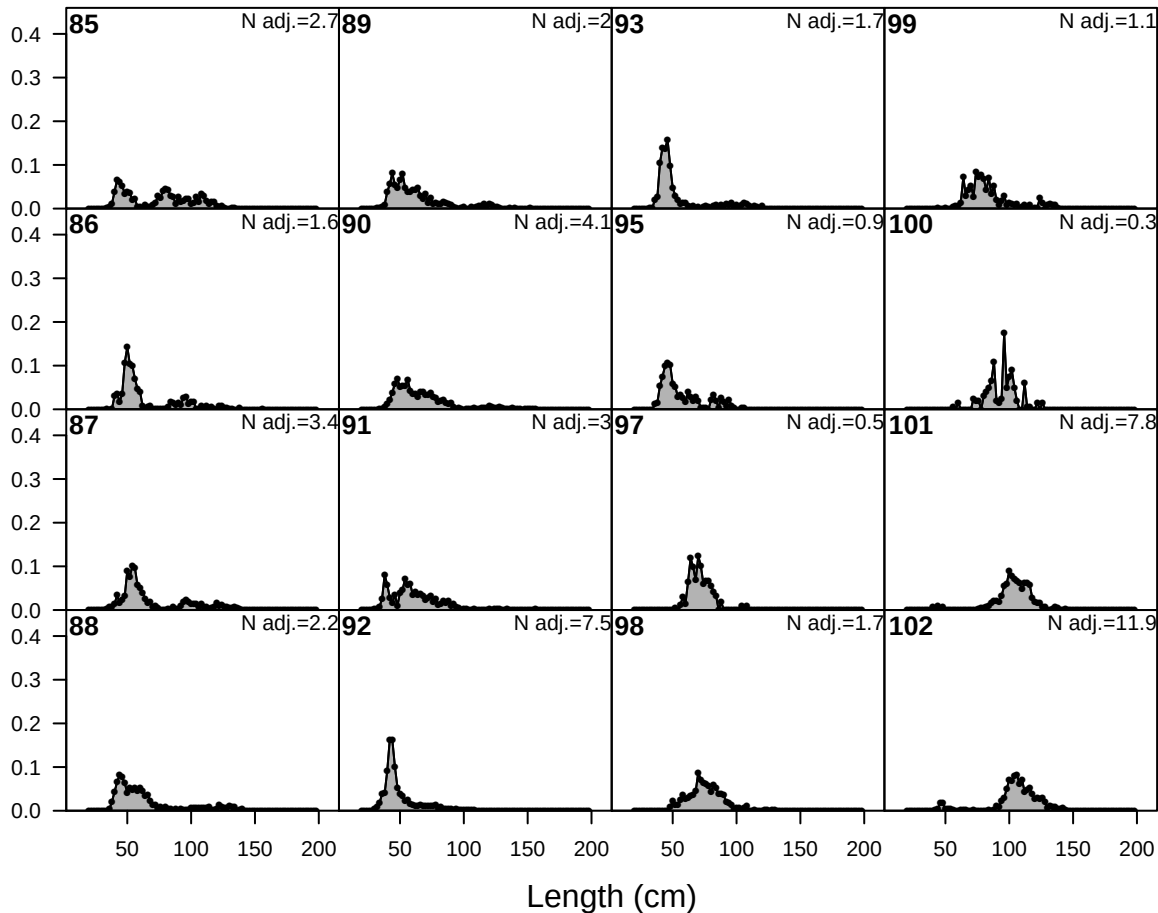
Proportion



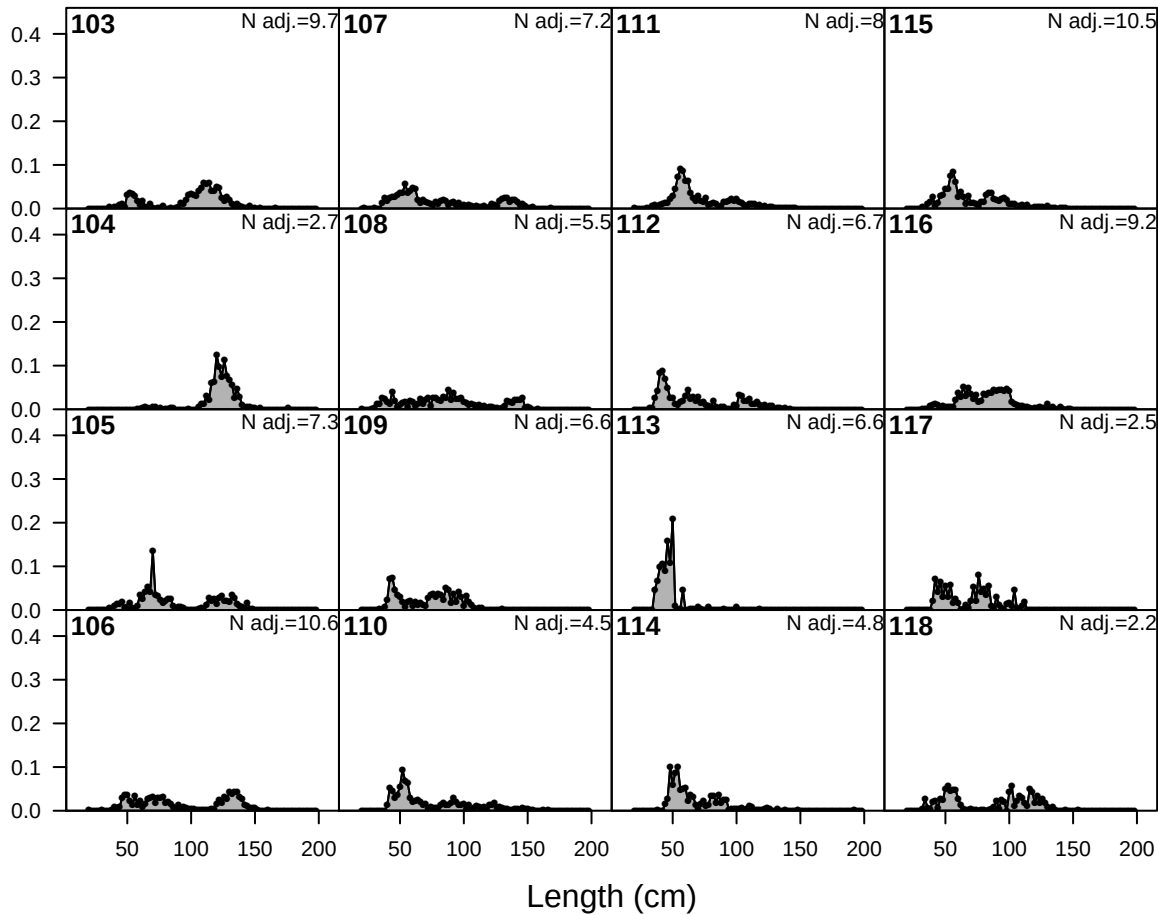
Proportion



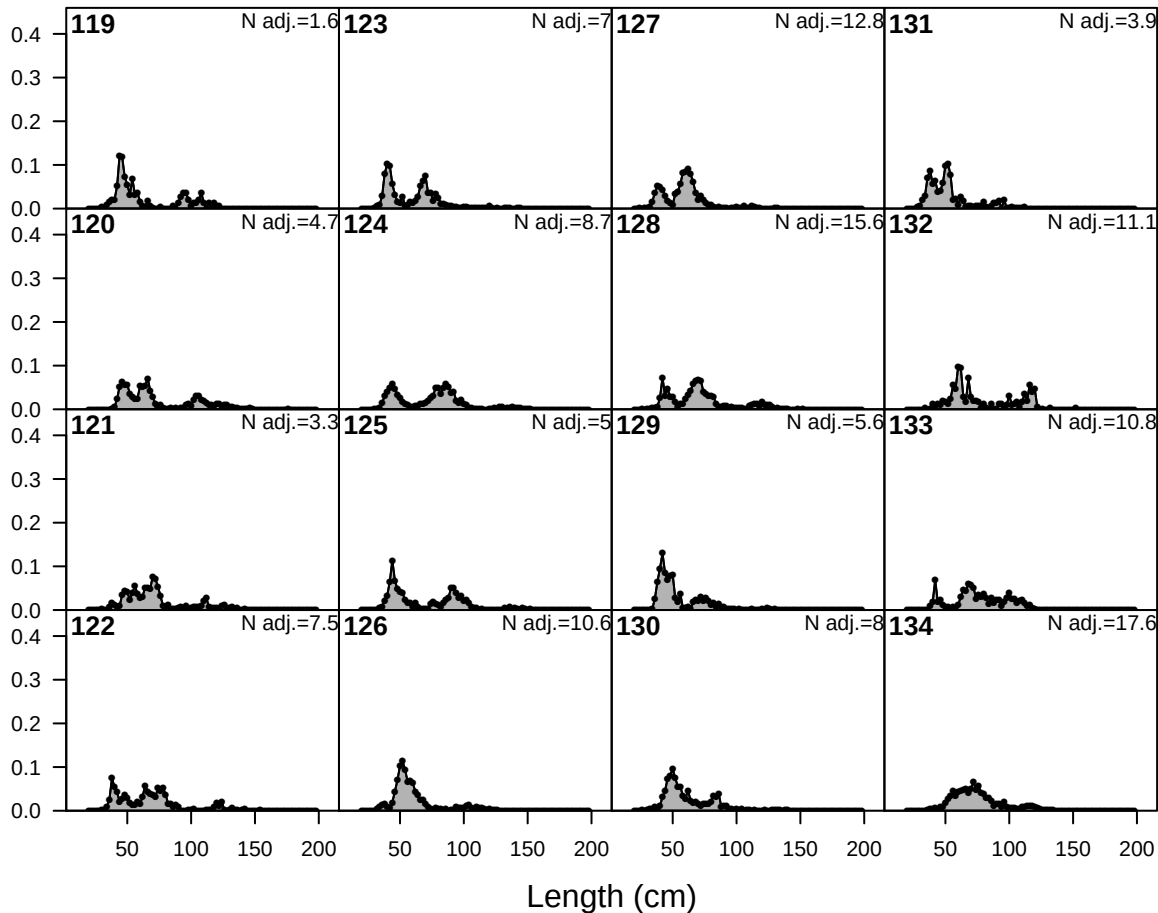
Proportion



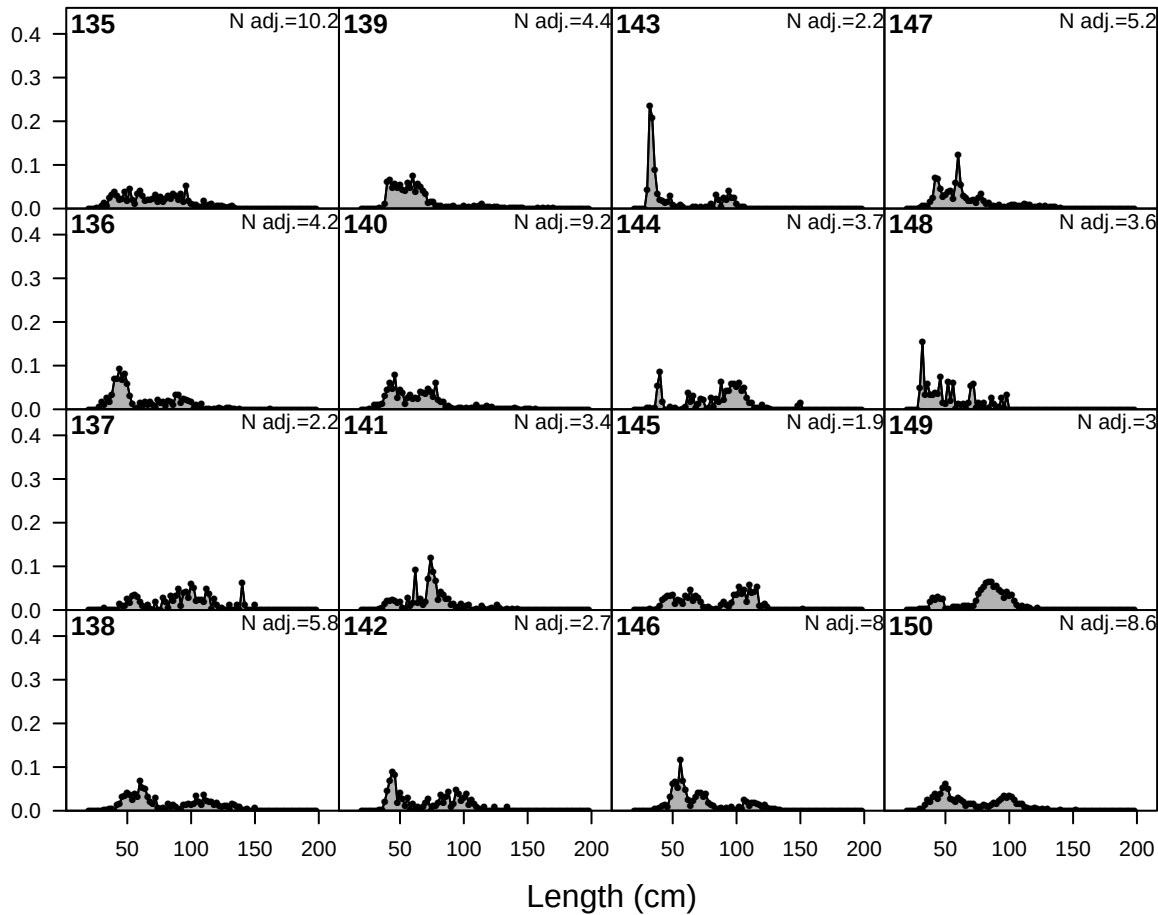
Proportion



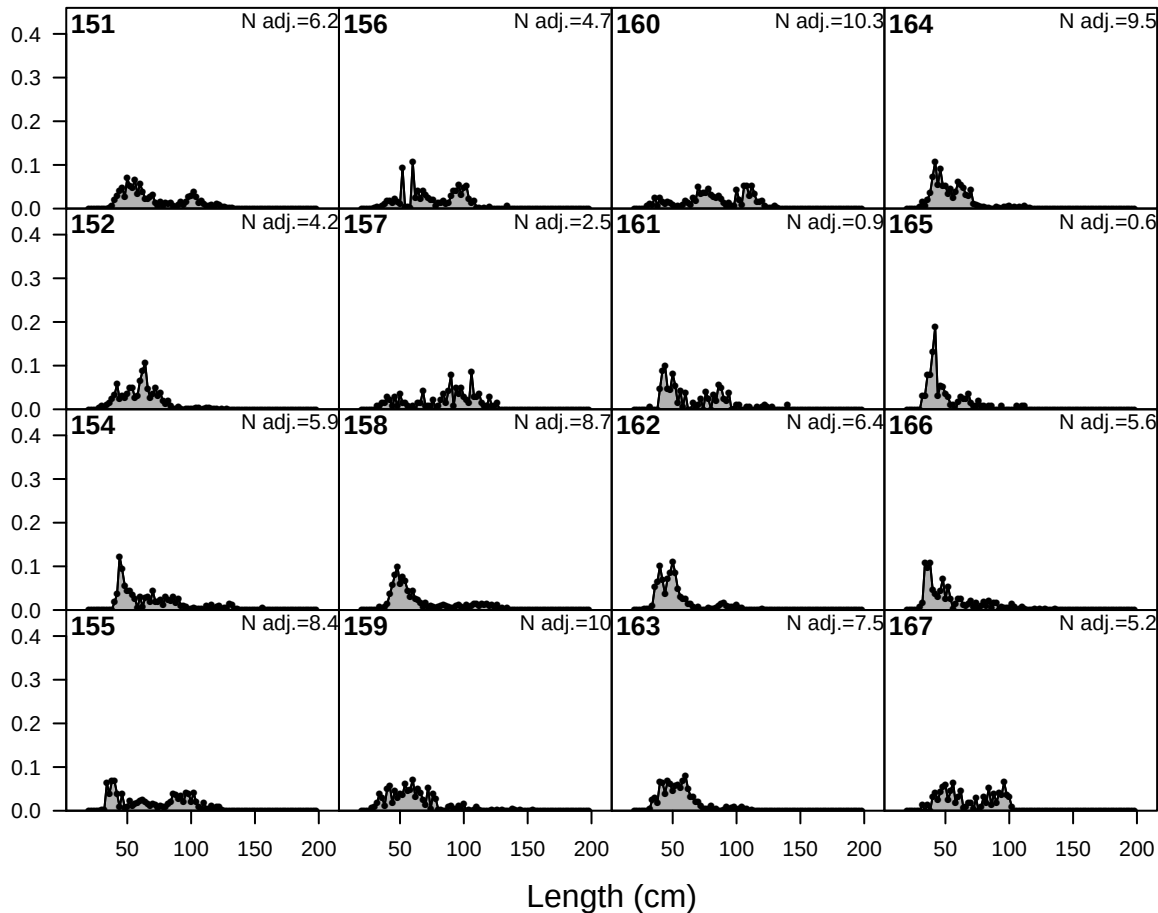
Proportion



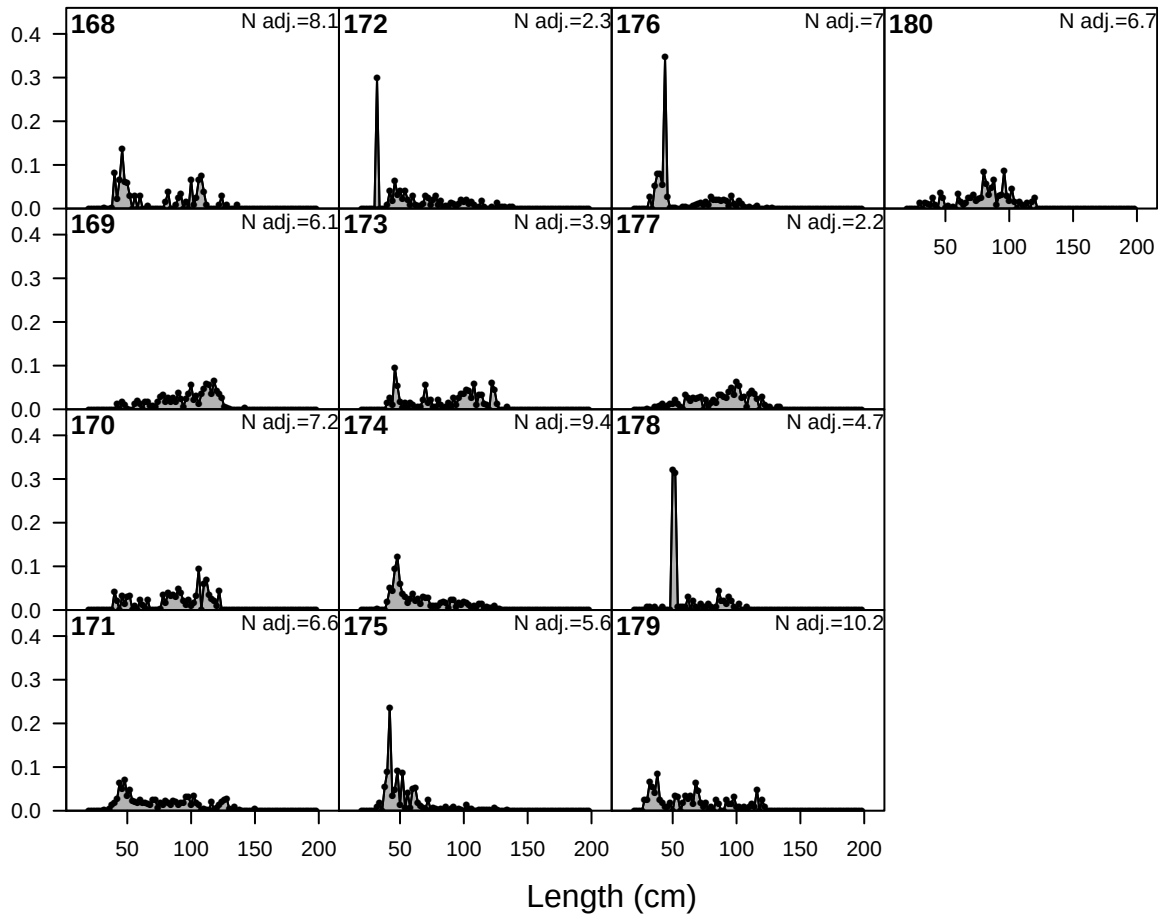
Proportion

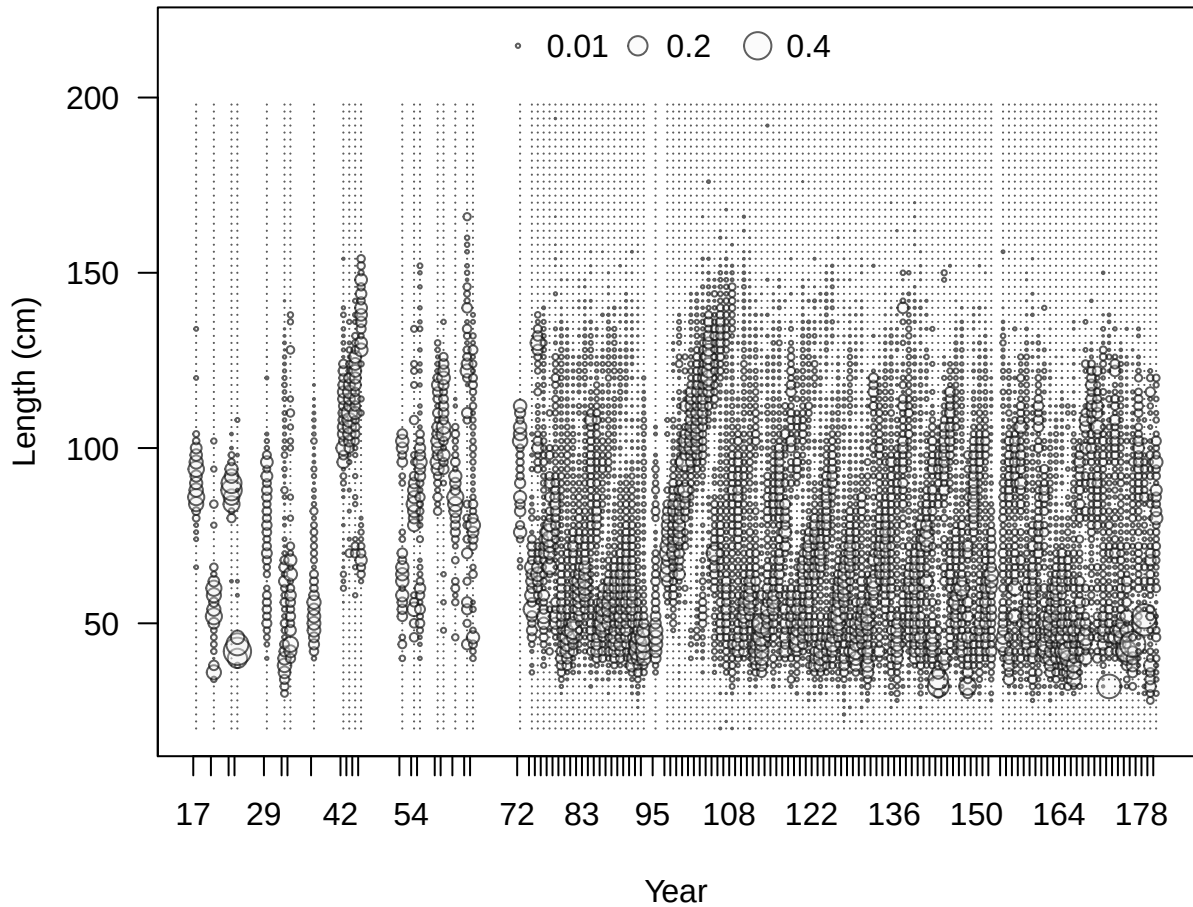


Proportion

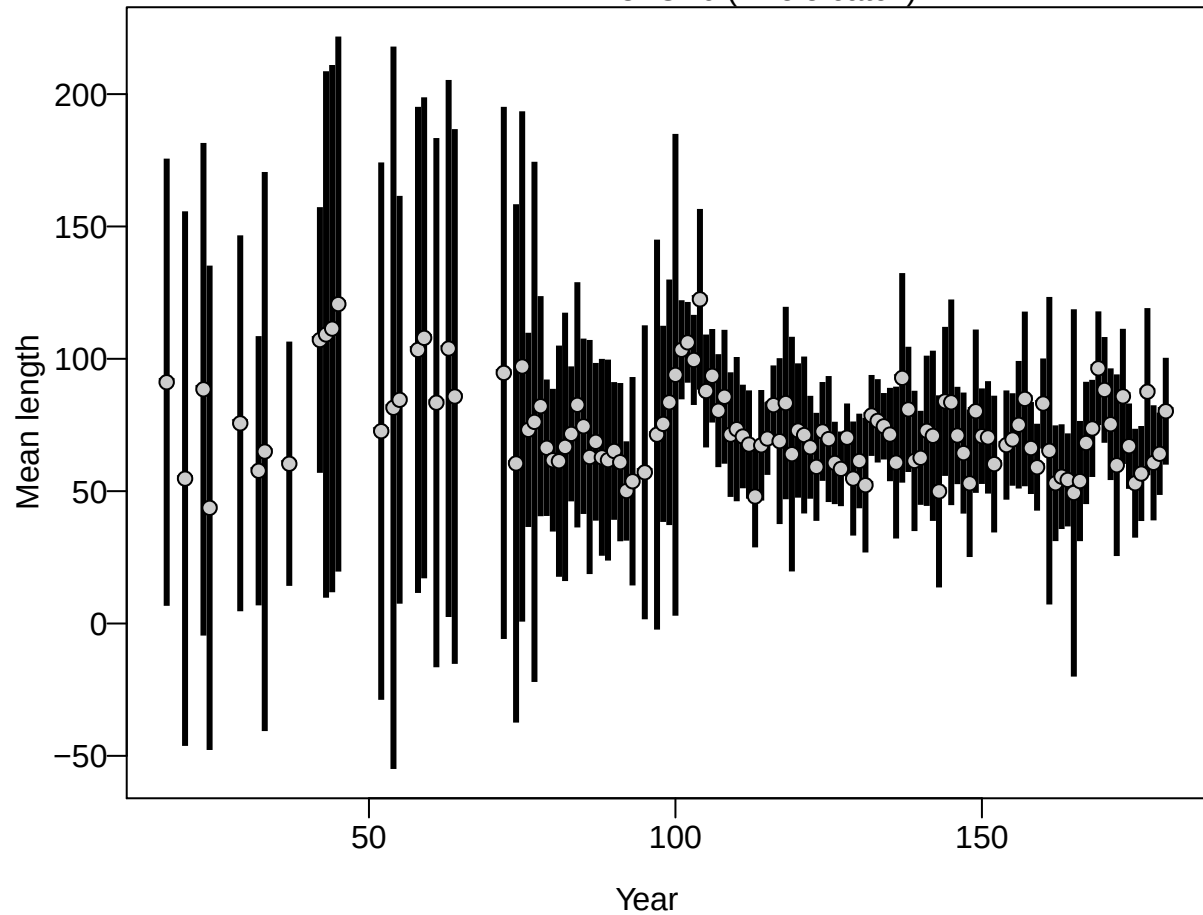


Proportion

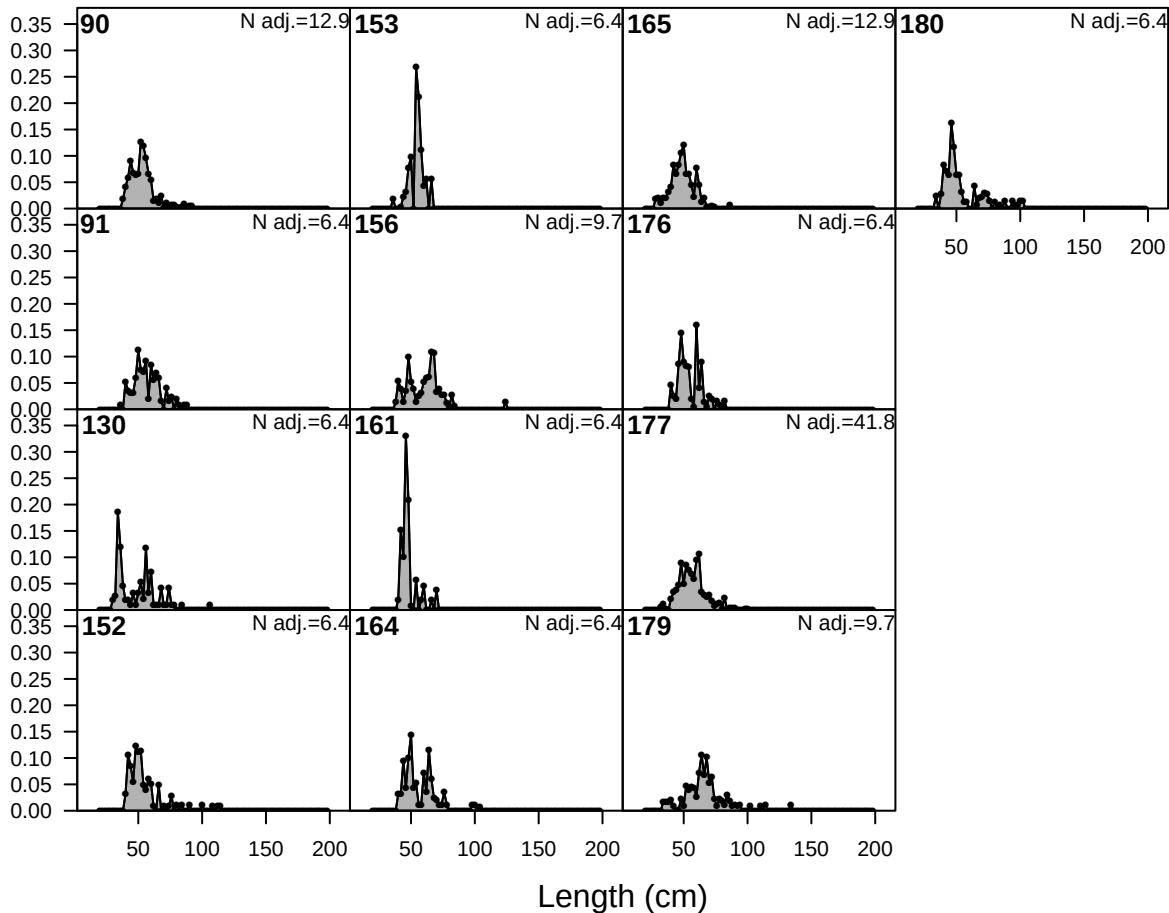


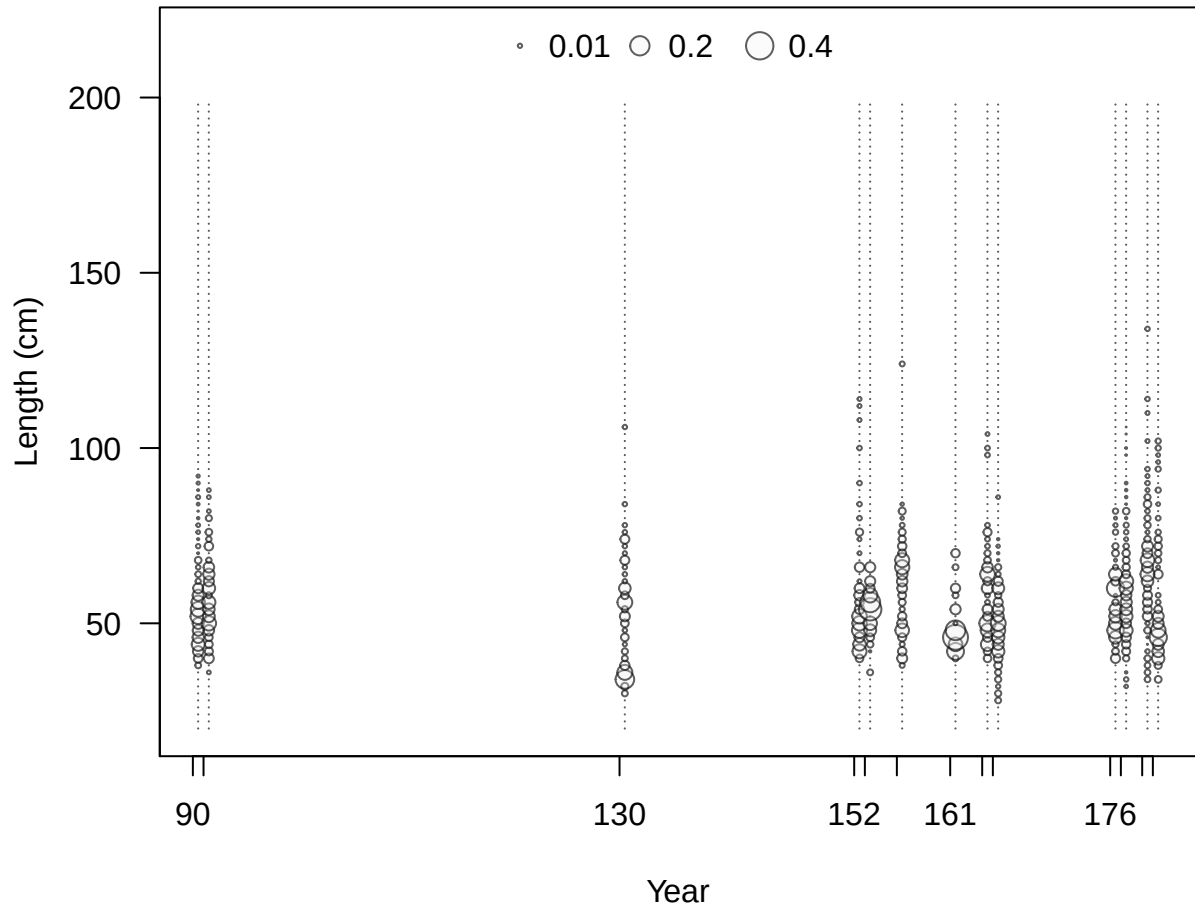


A3-OBJ (whole catch)

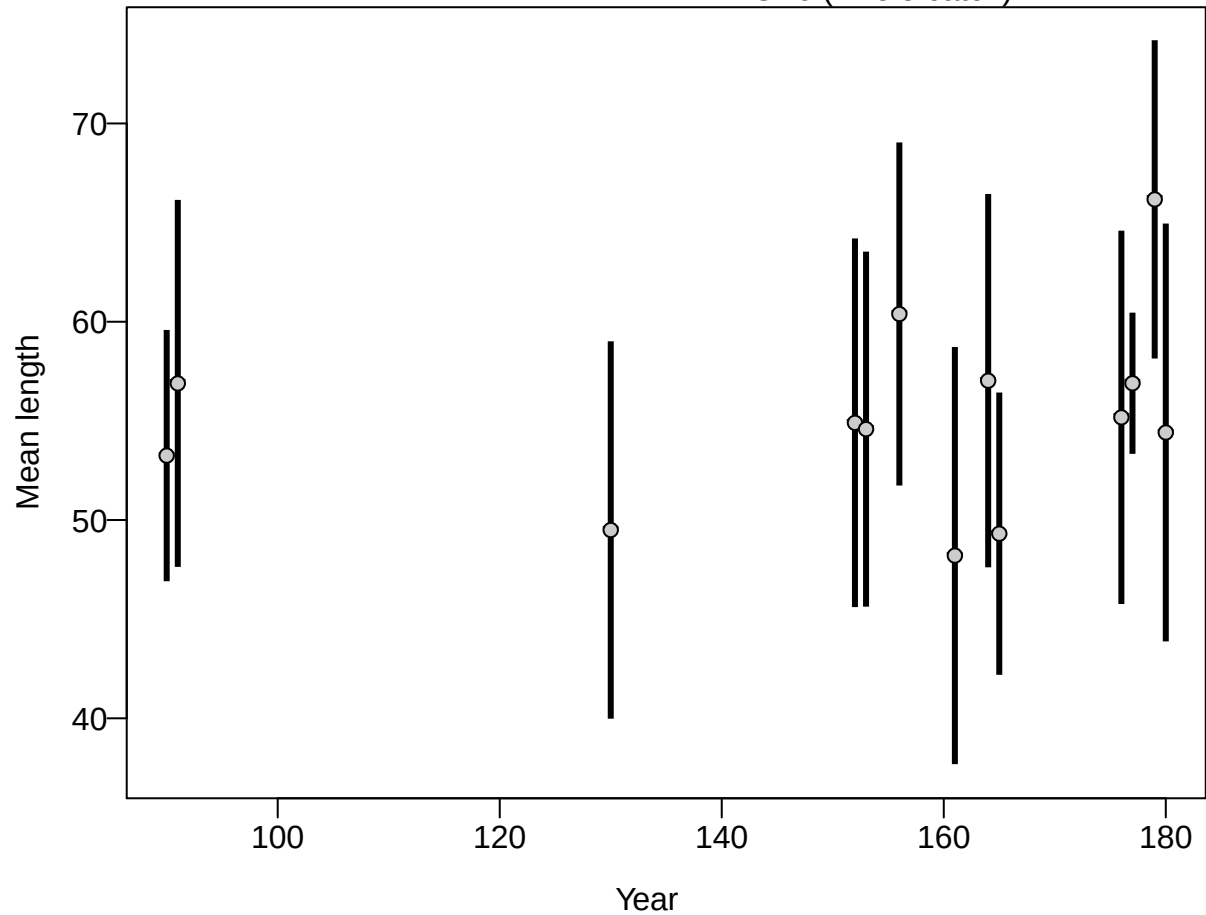


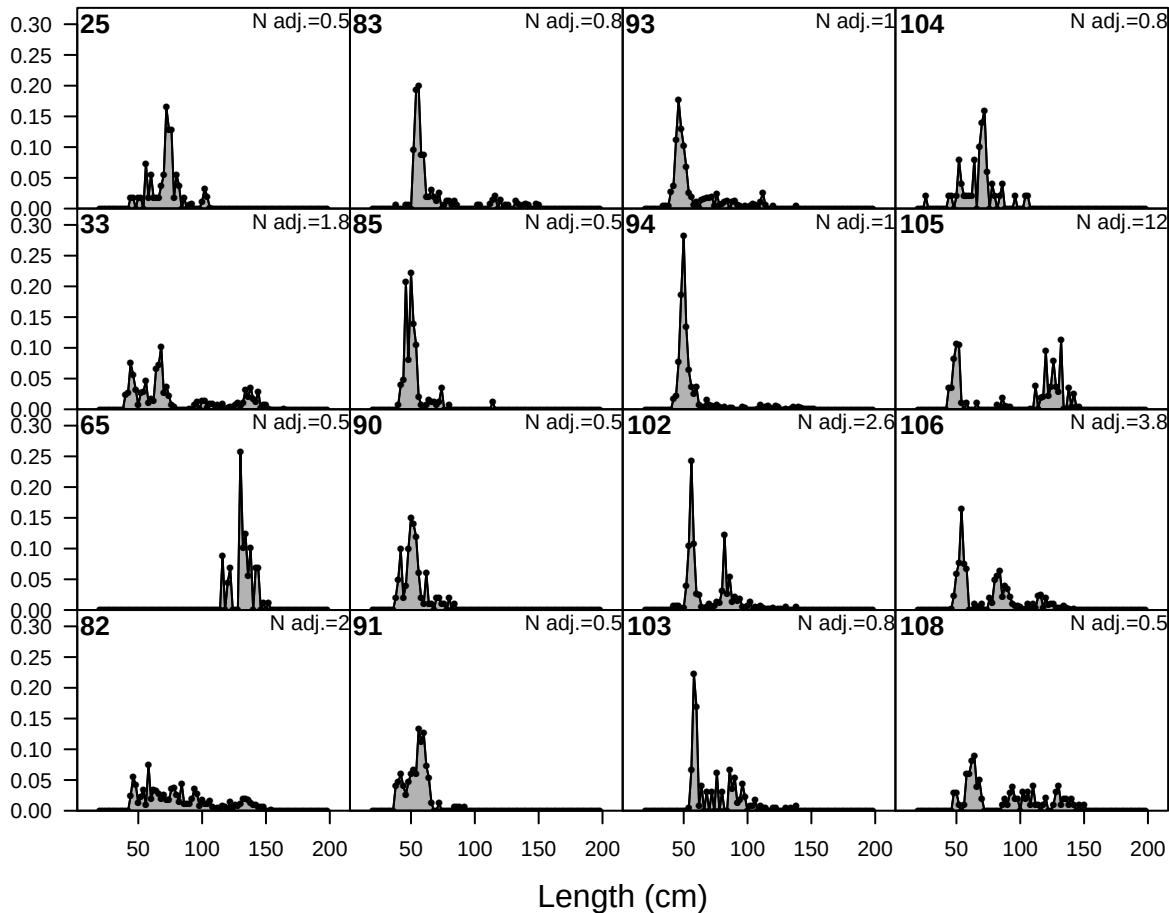
Proportion

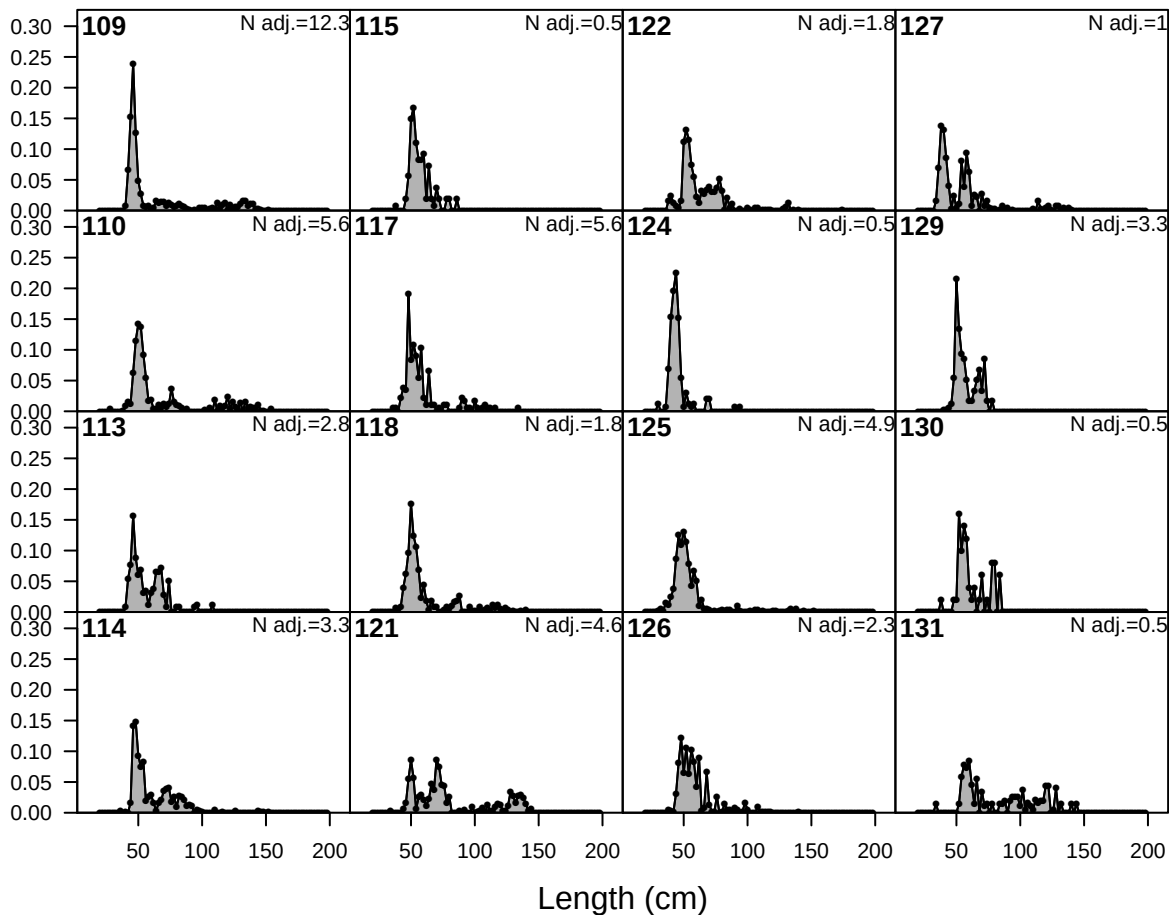


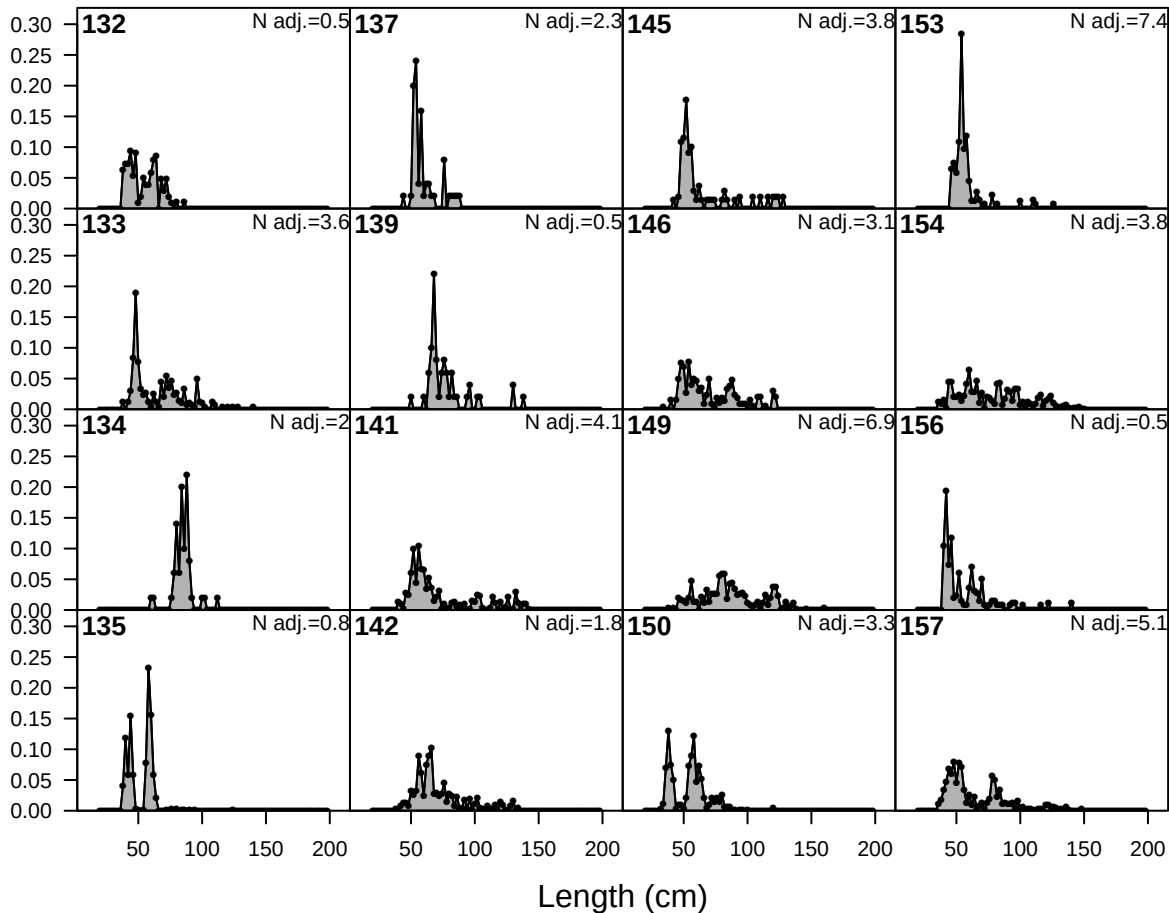


A4-OBJ (whole catch)

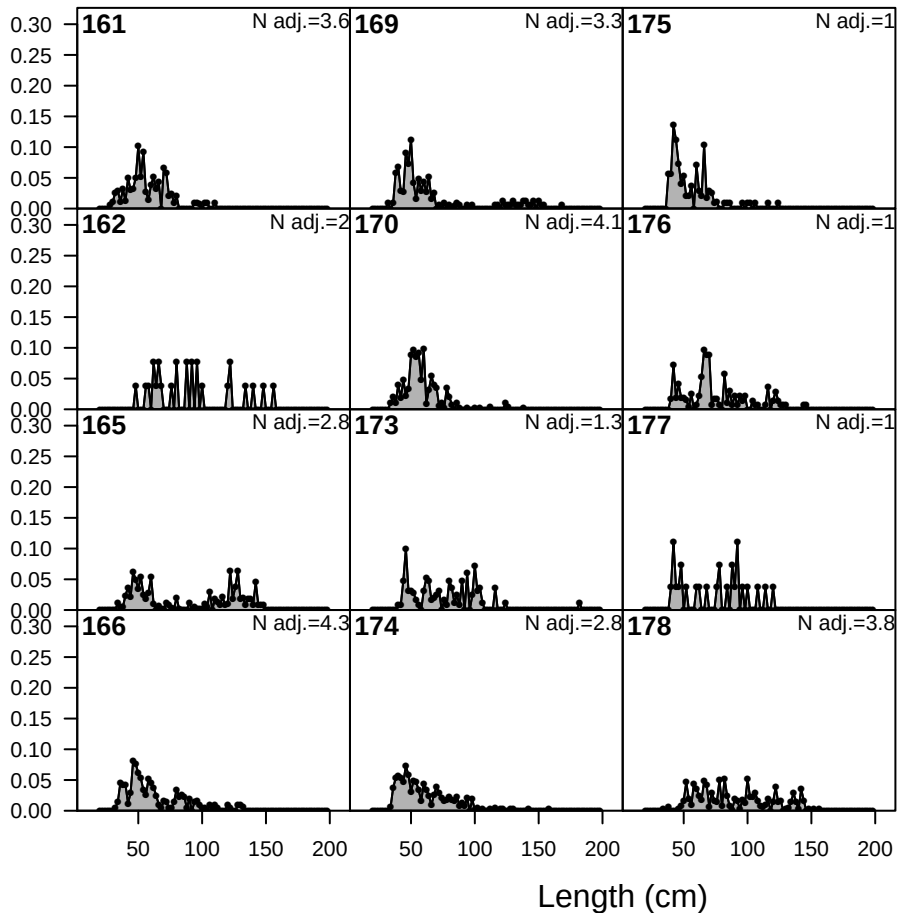


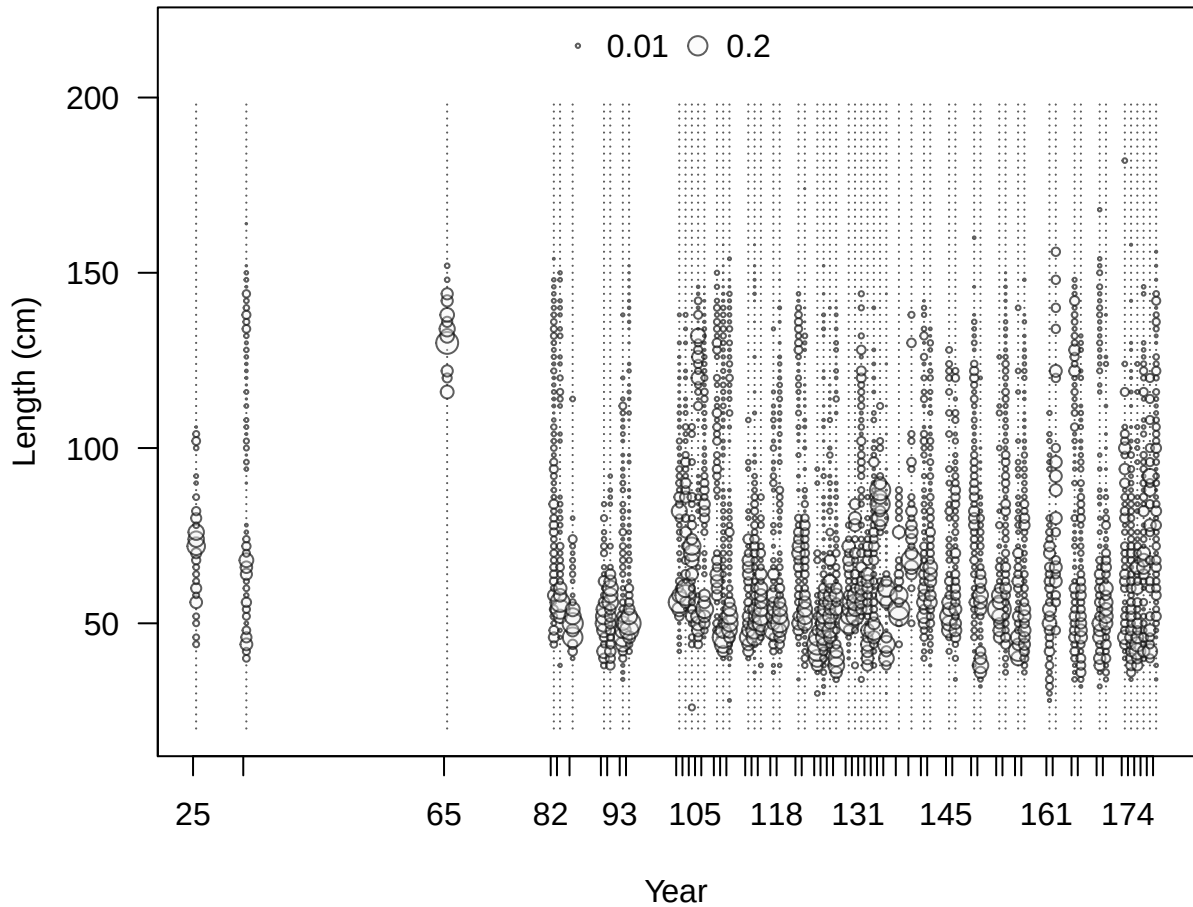




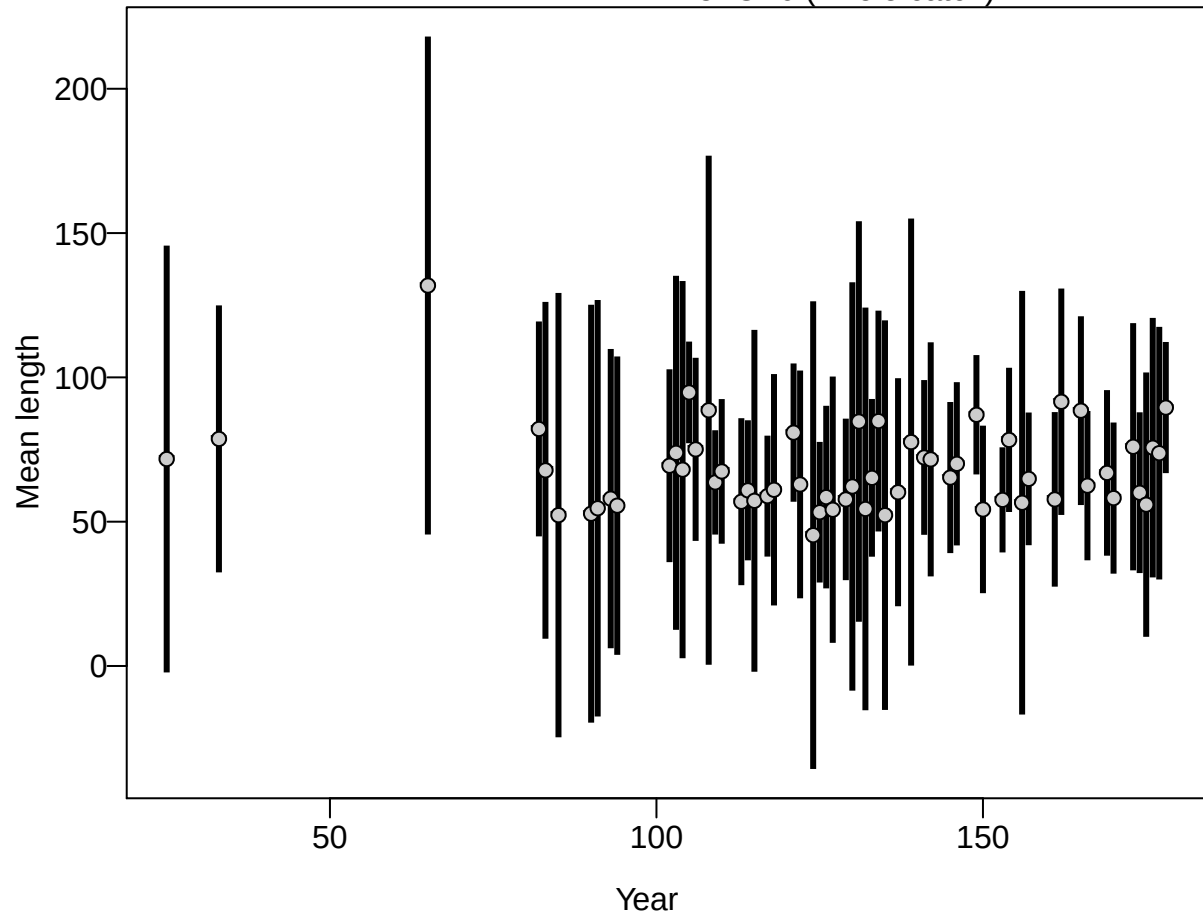


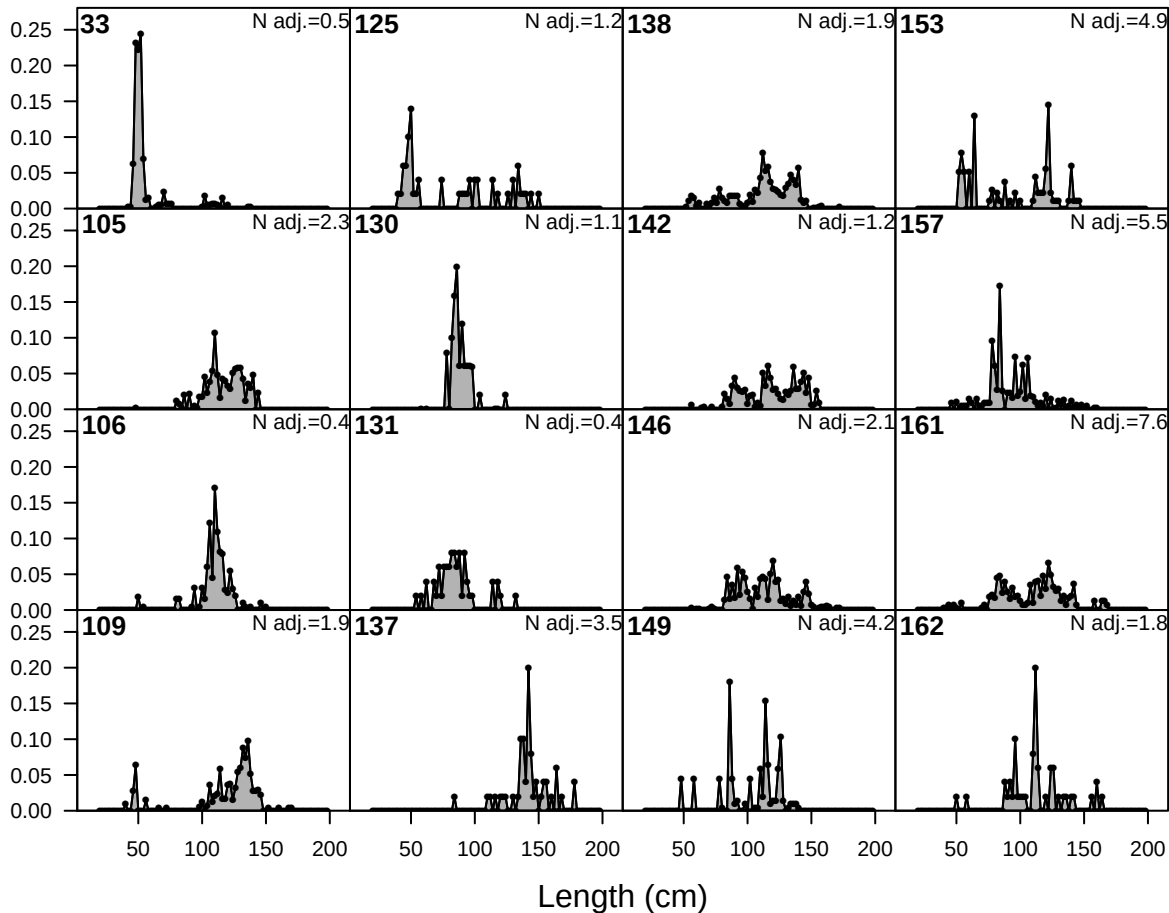
Proportion



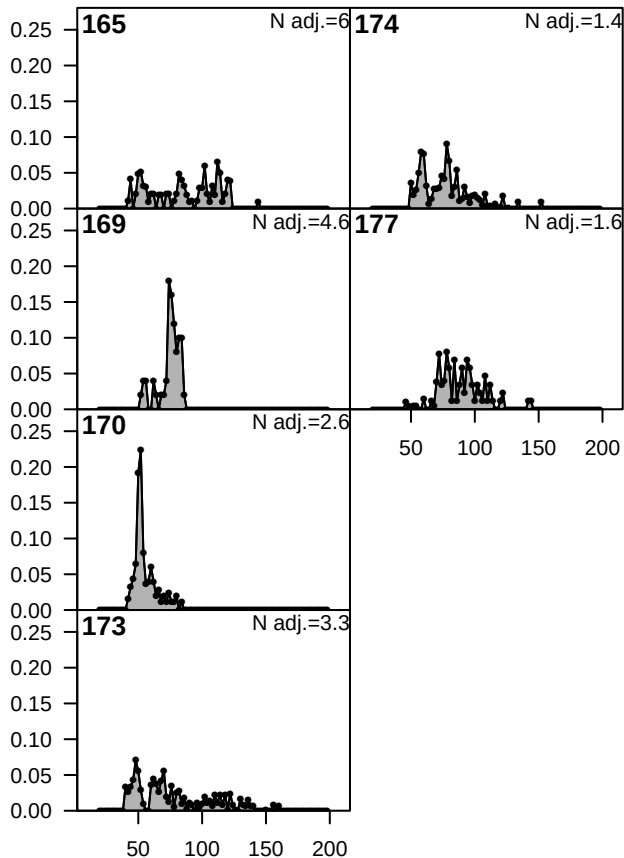


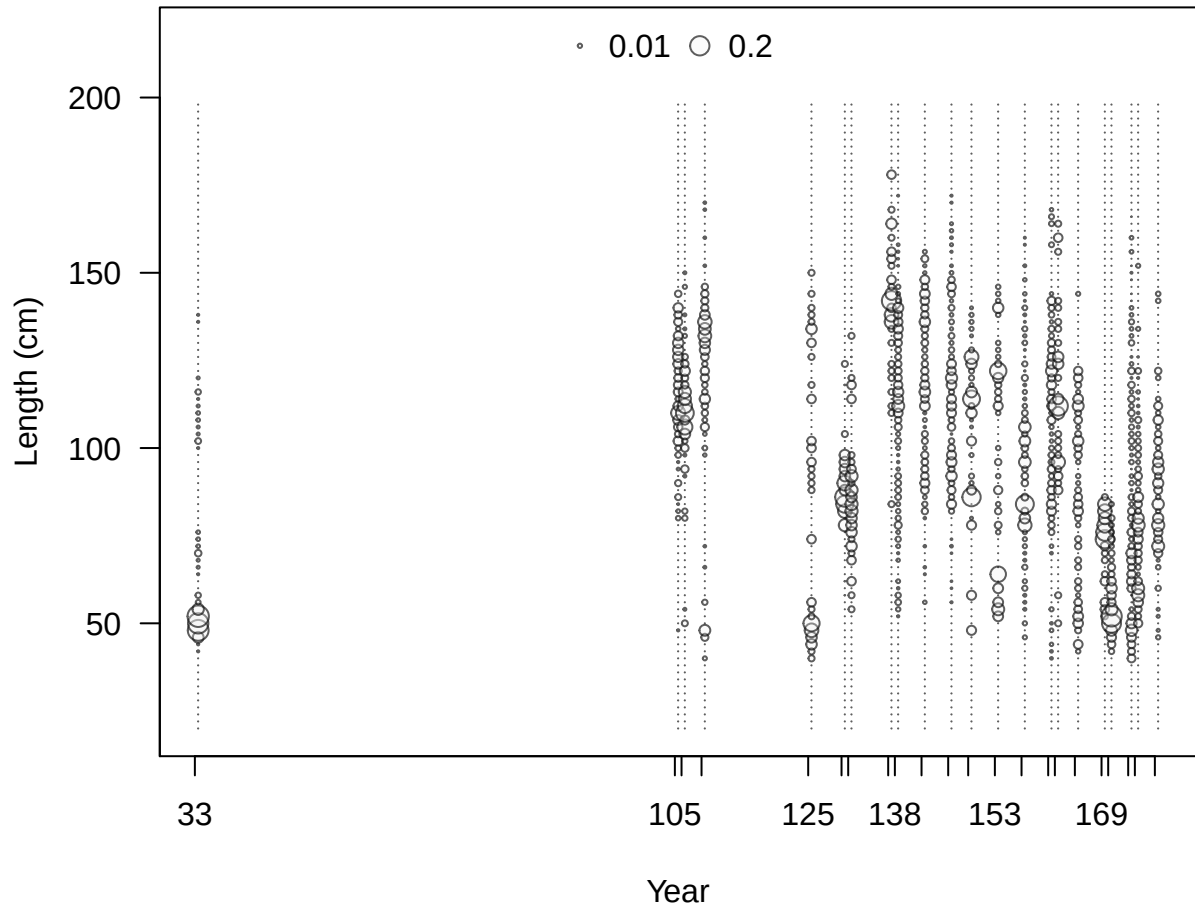
A5-OBJ (whole catch)



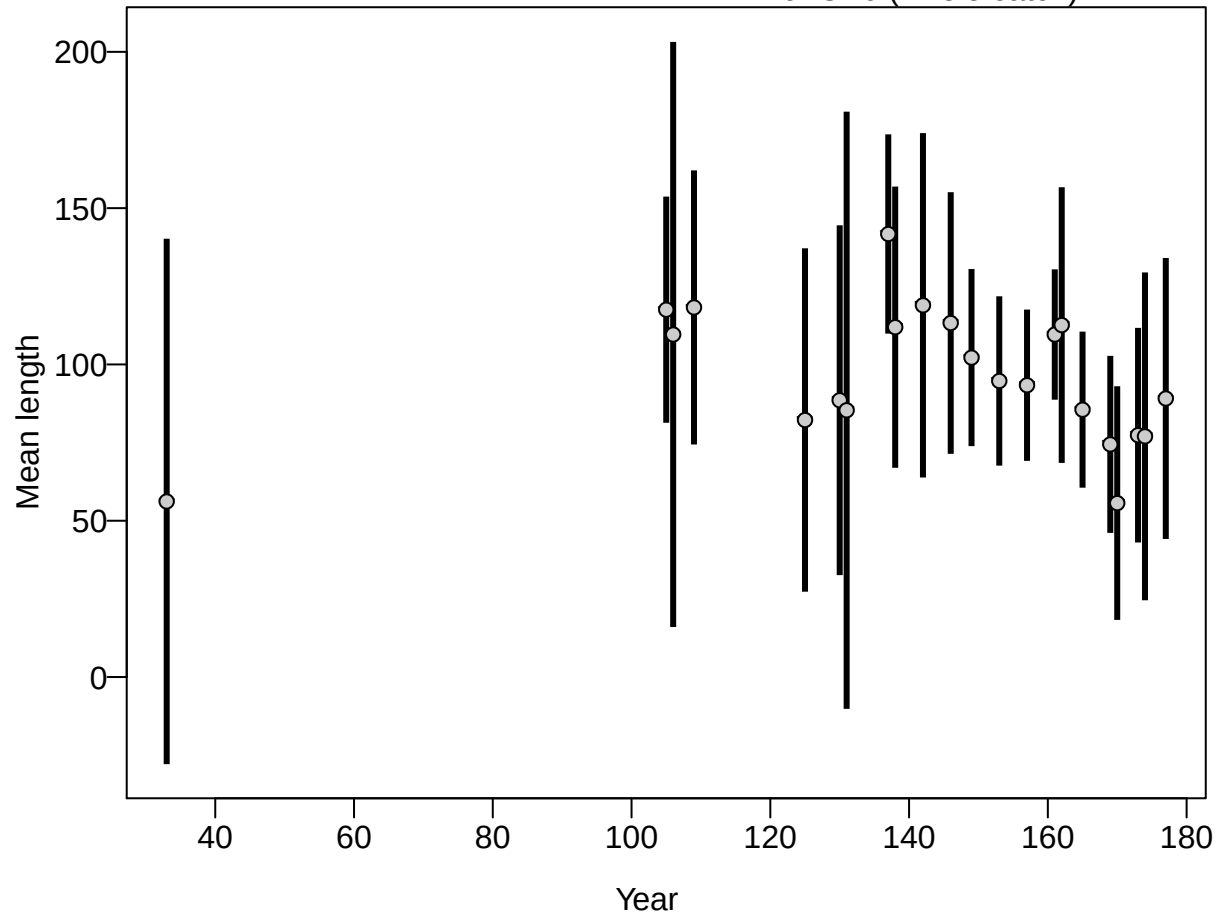


Proportion

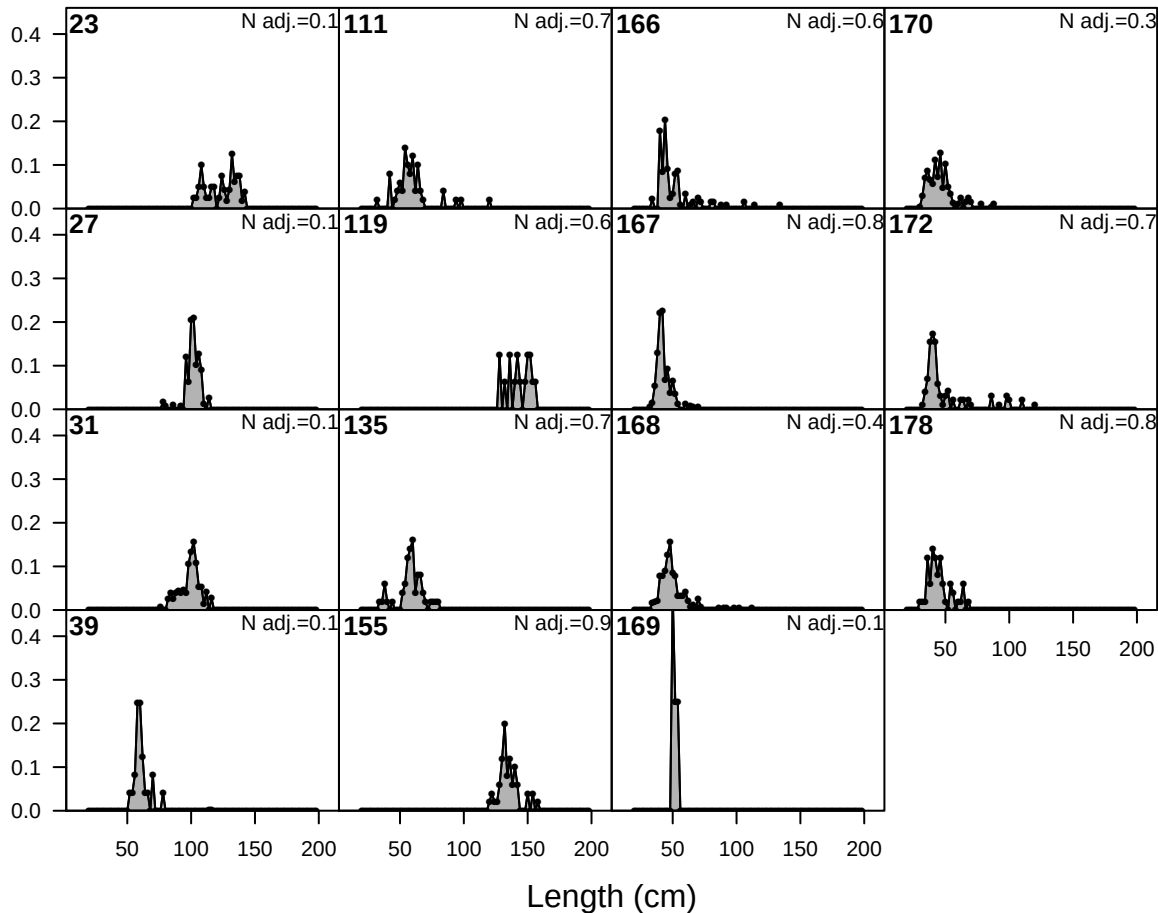


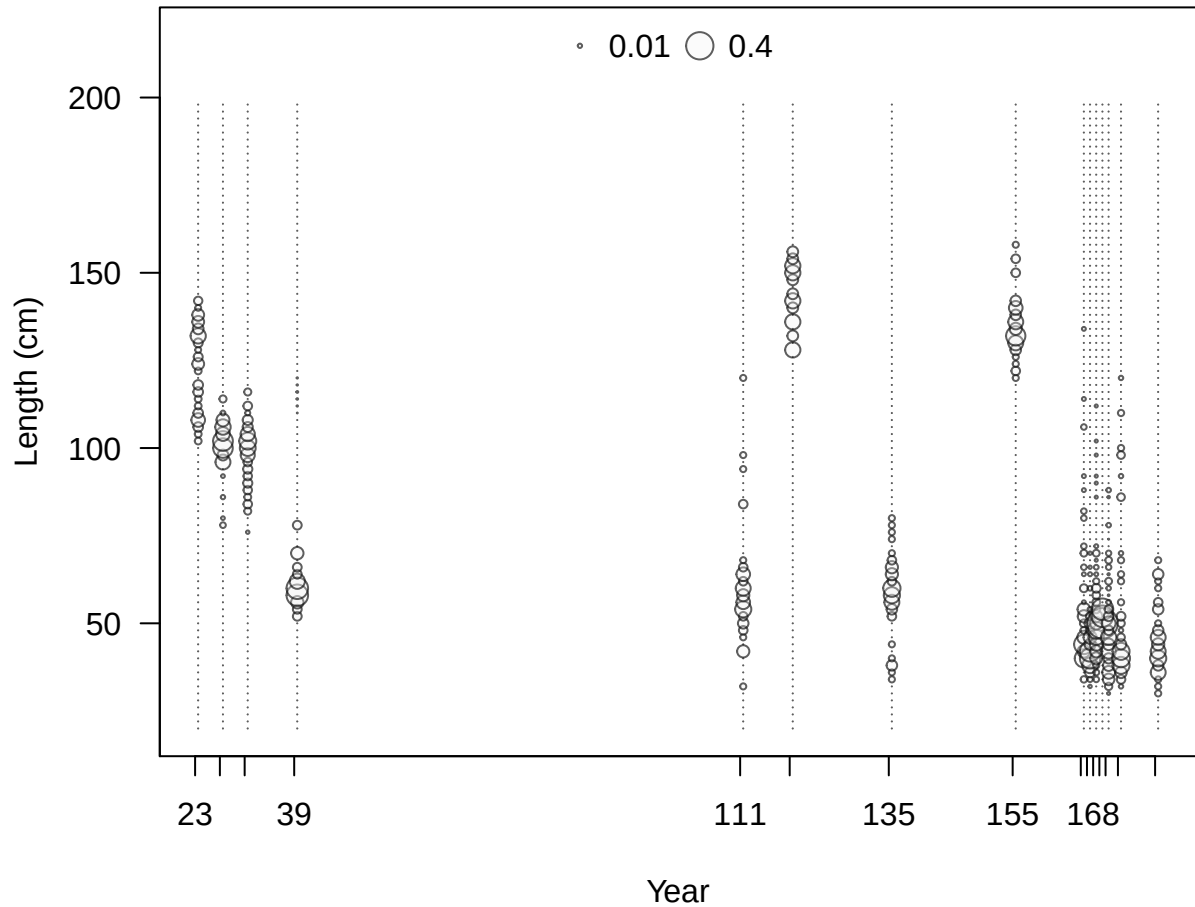


A6-OBJ (whole catch)

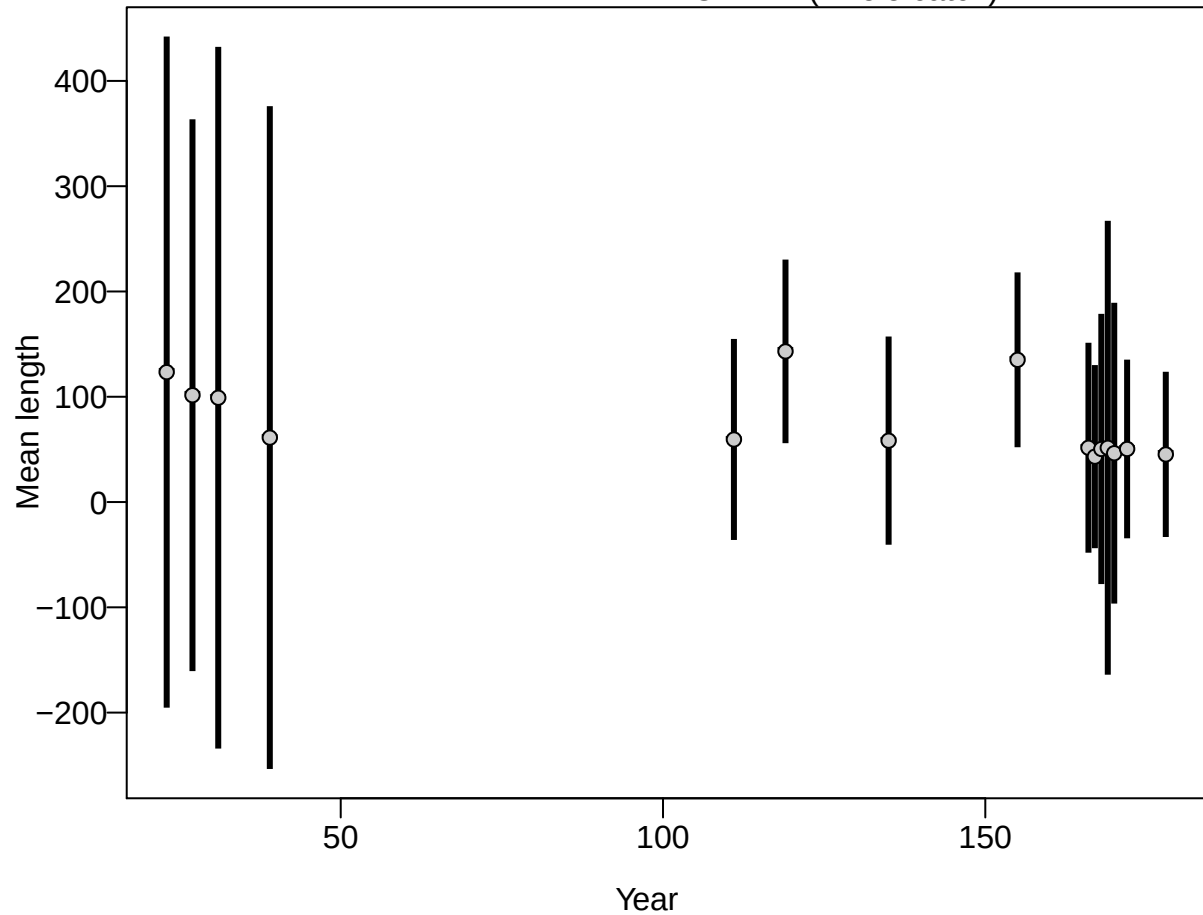


Proportion

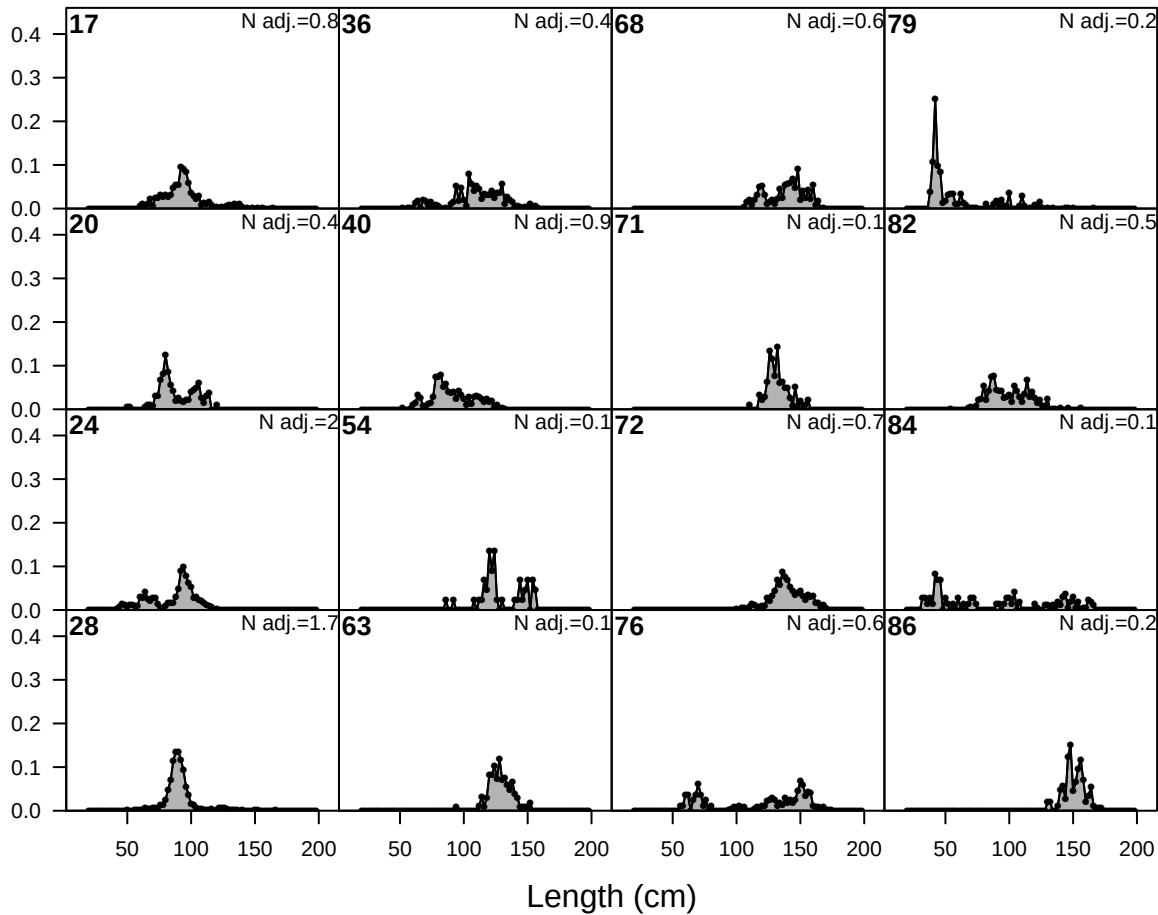




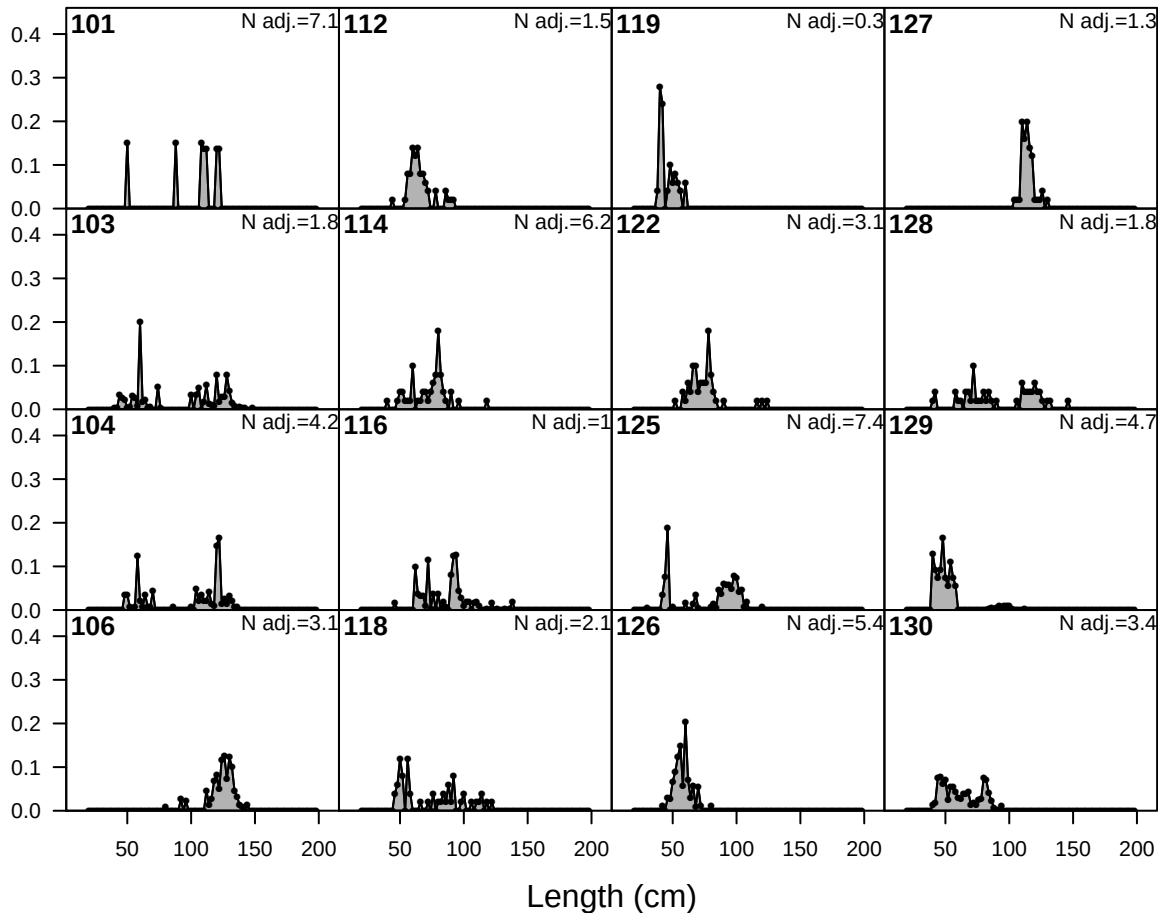
A2-NOADEL (whole catch)



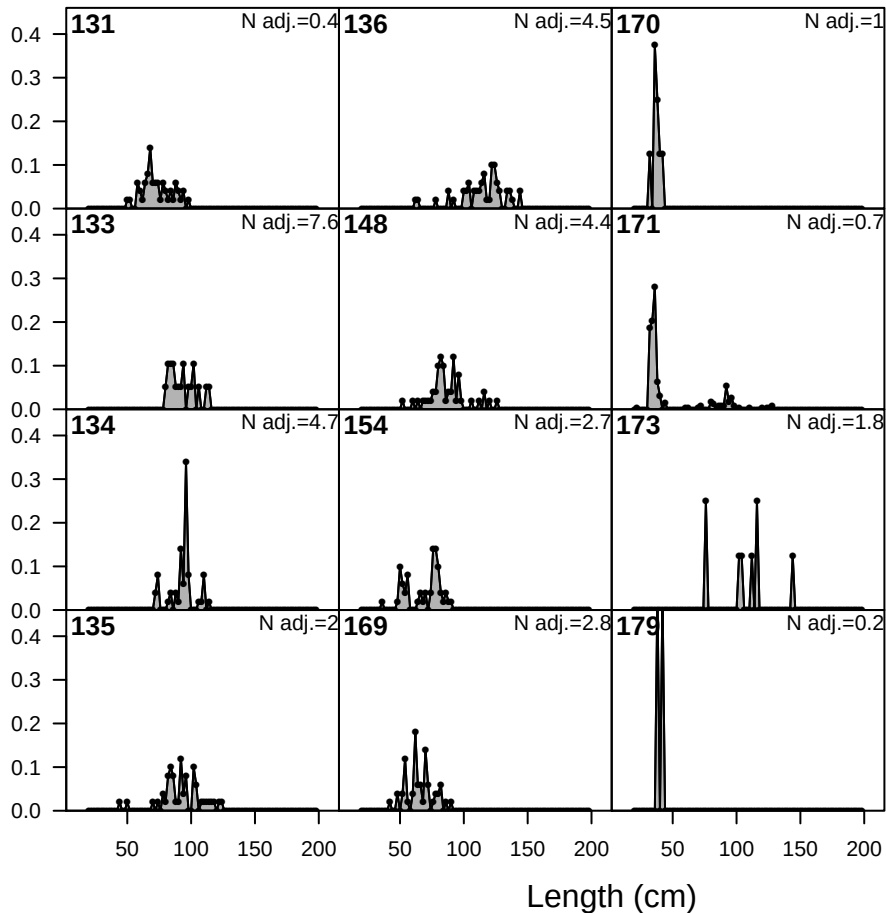
Proportion

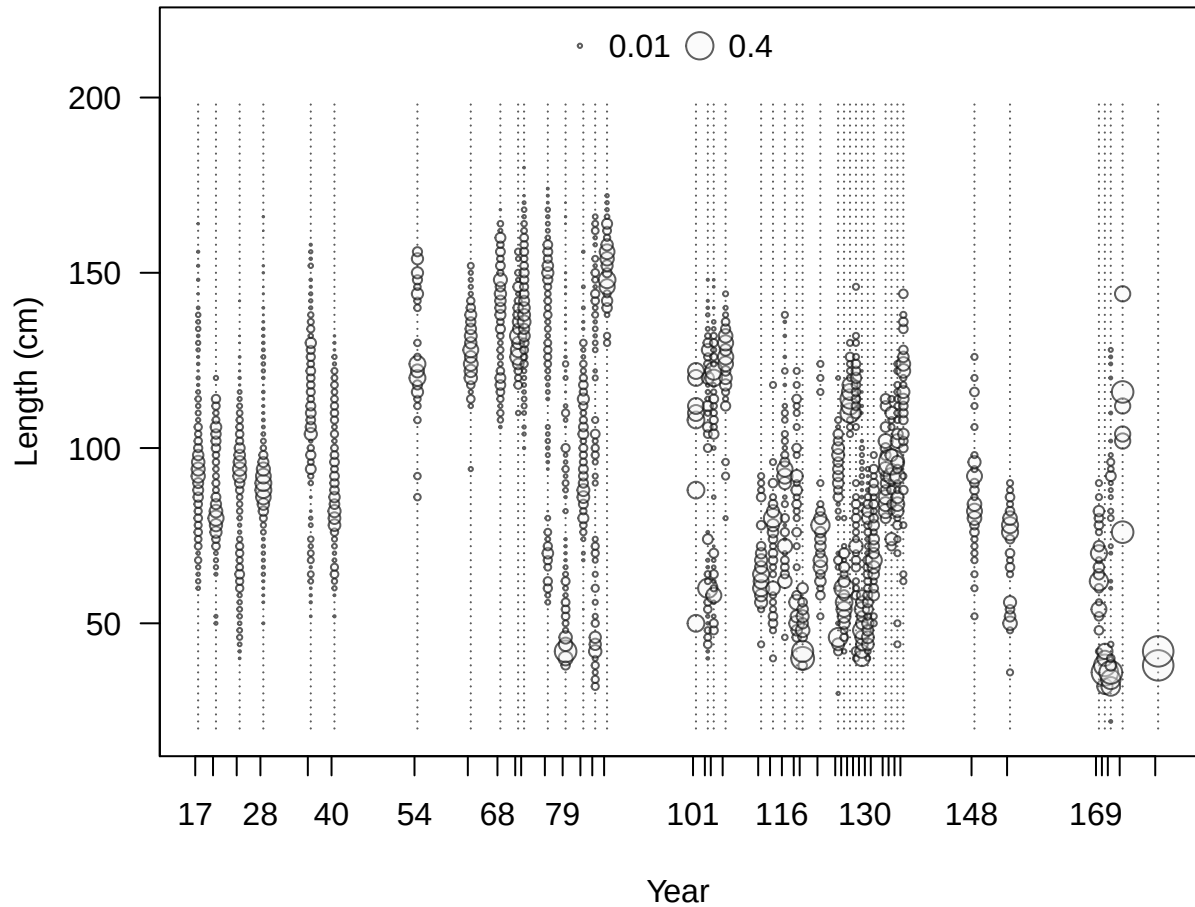


Proportion

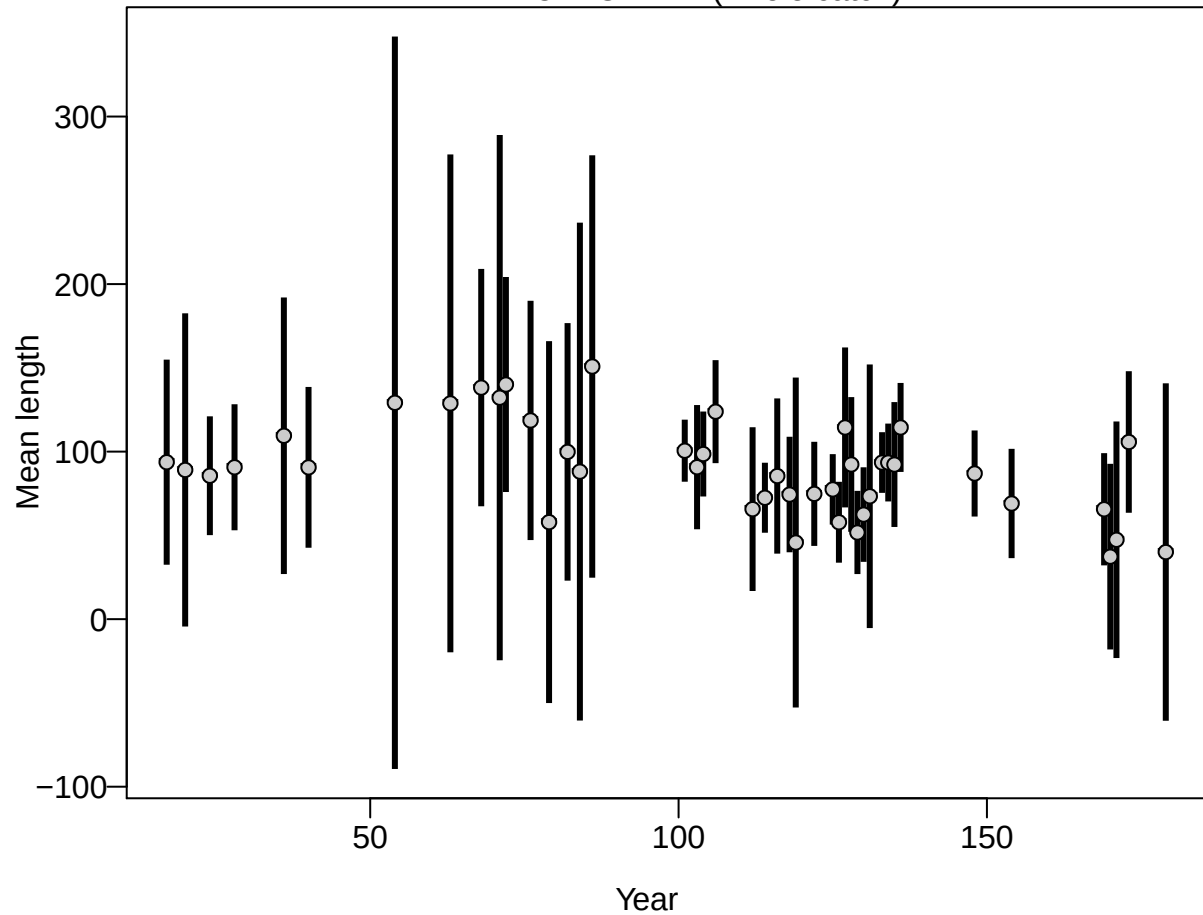


Proportion

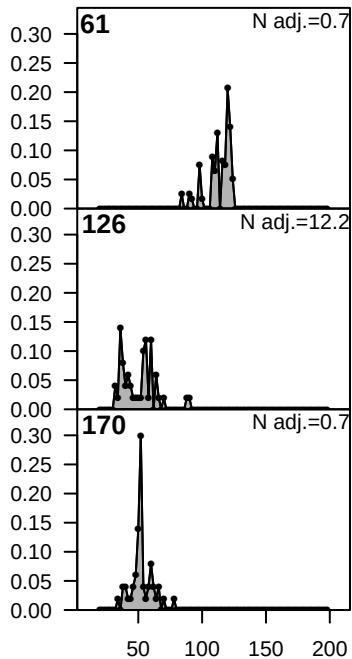




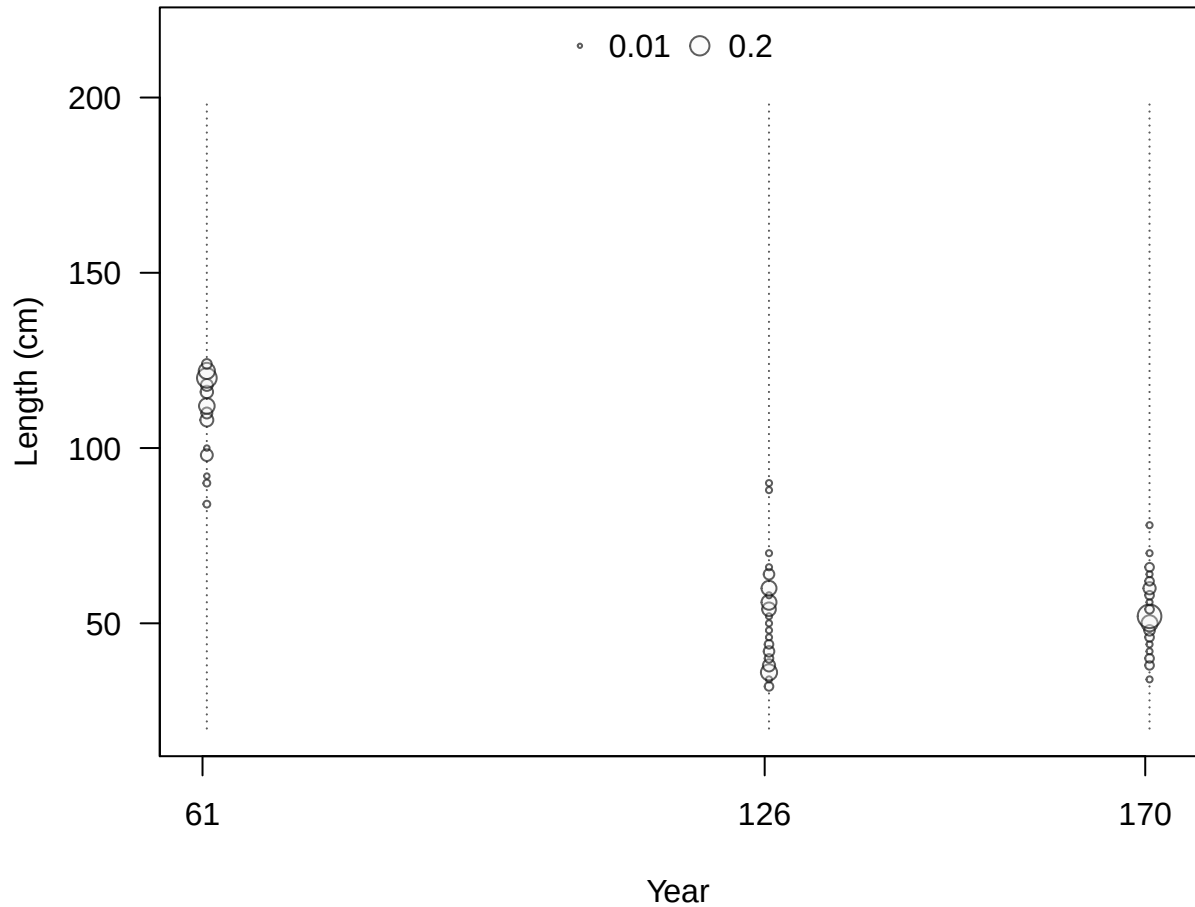
A3-NOADEL (whole catch)



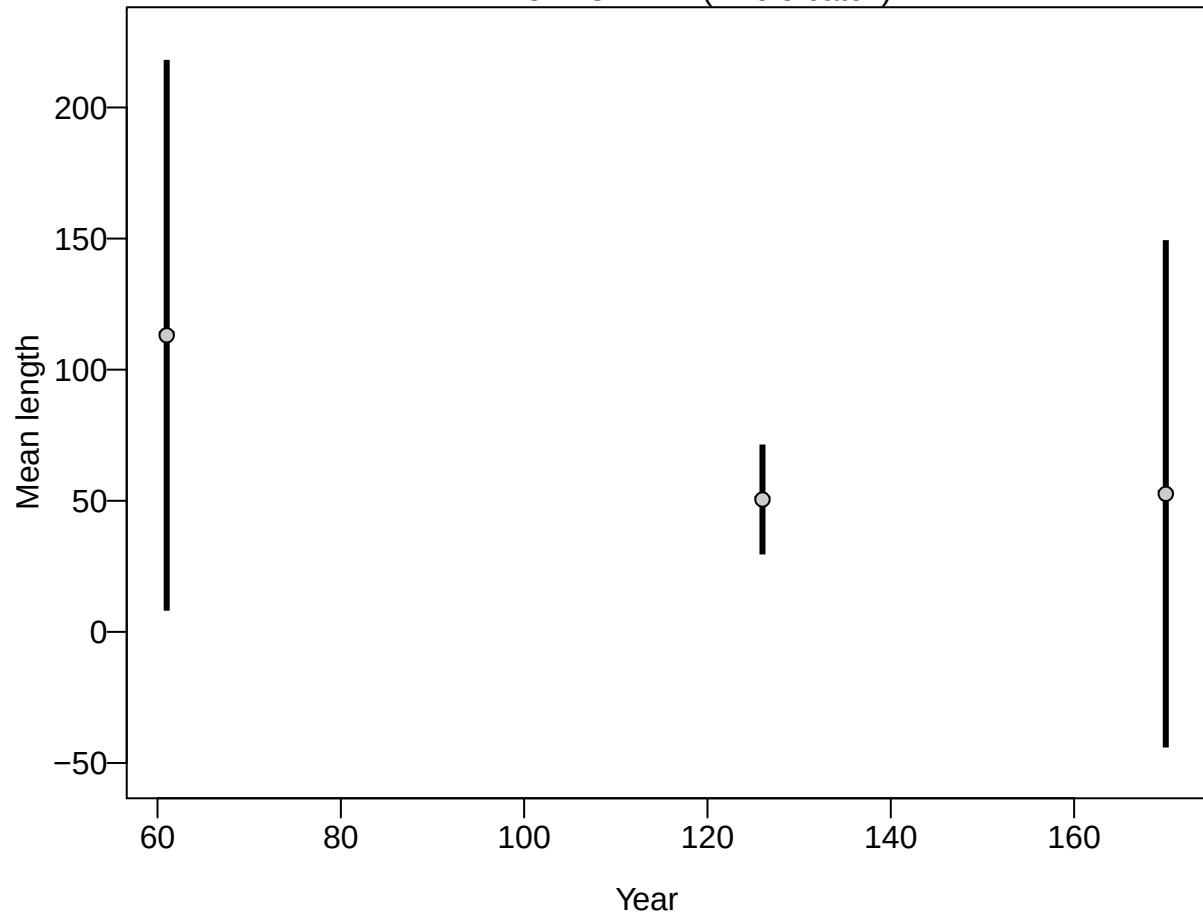
Proportion



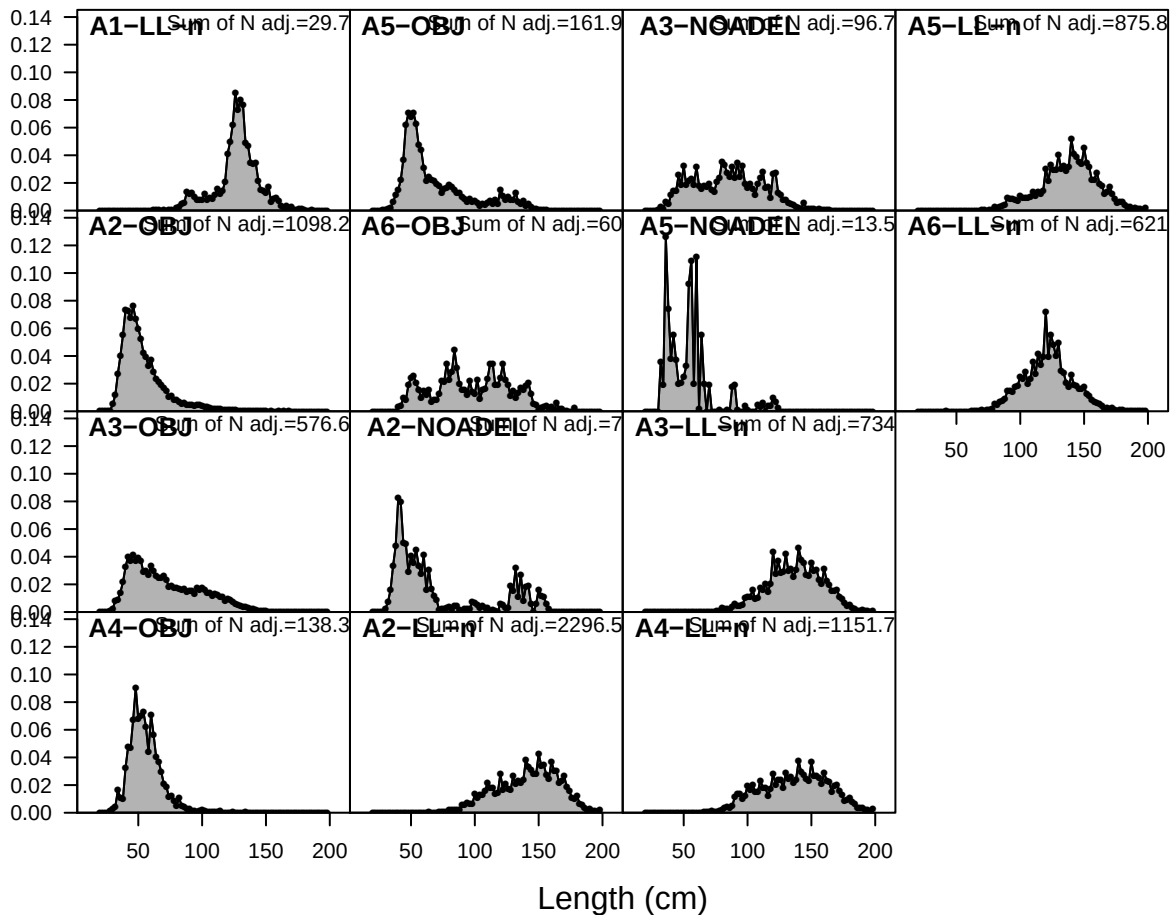
Length (cm)

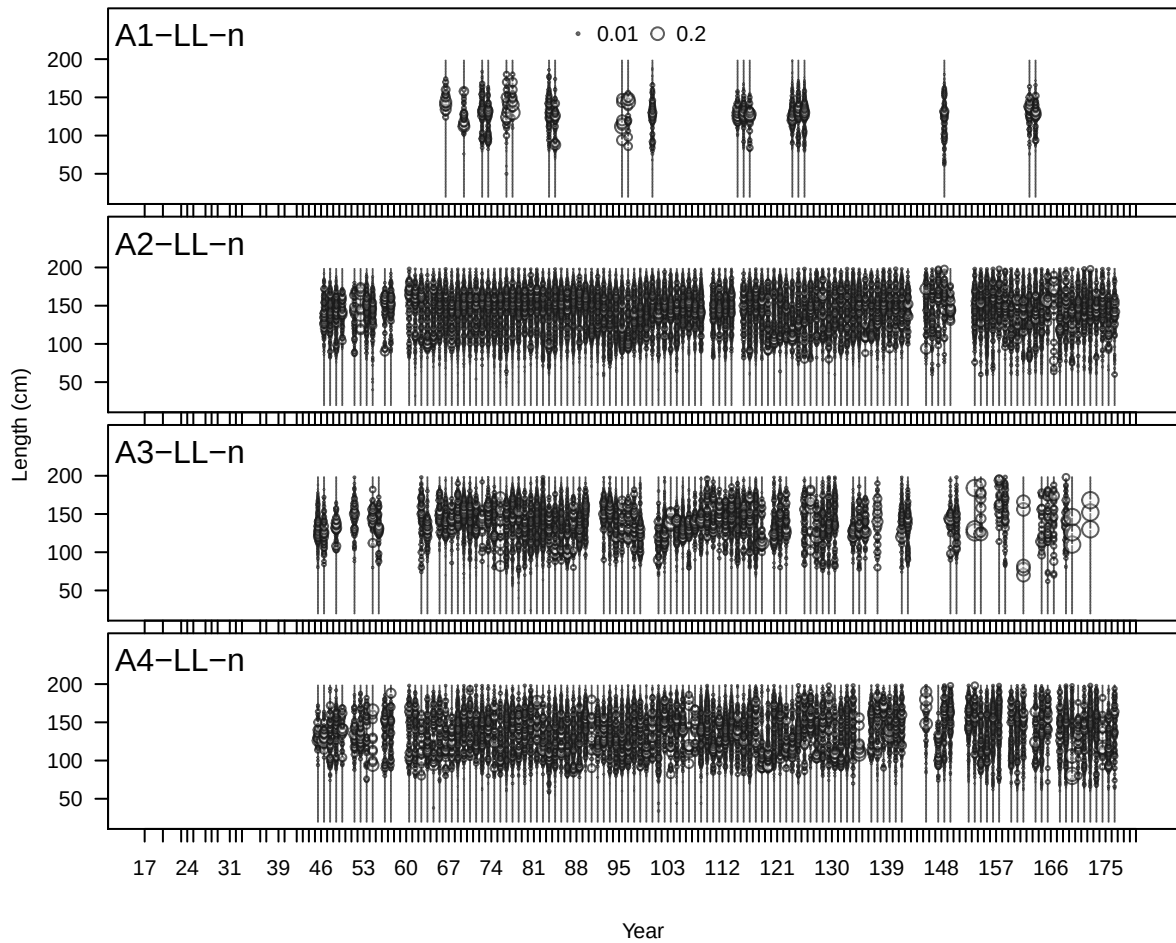


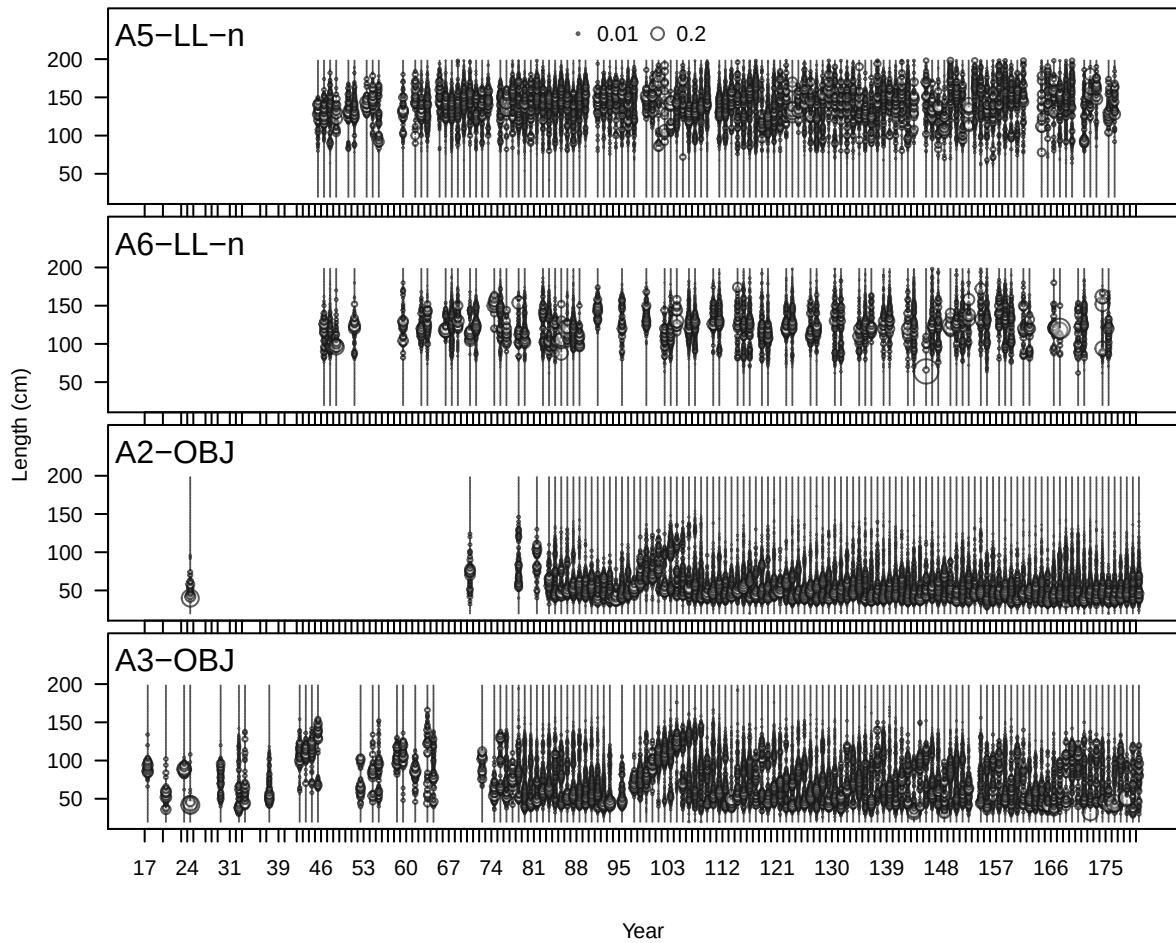
A5-NOADEL (whole catch)

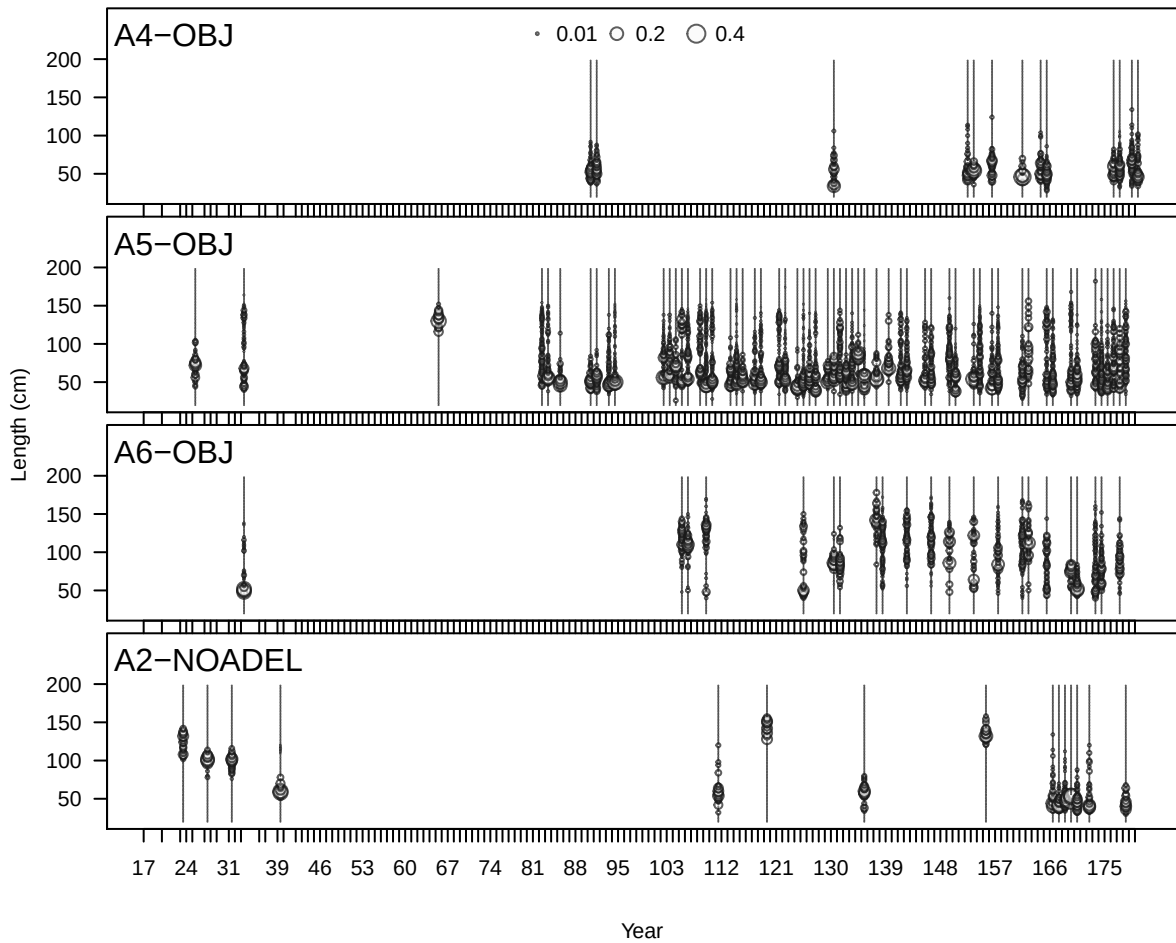


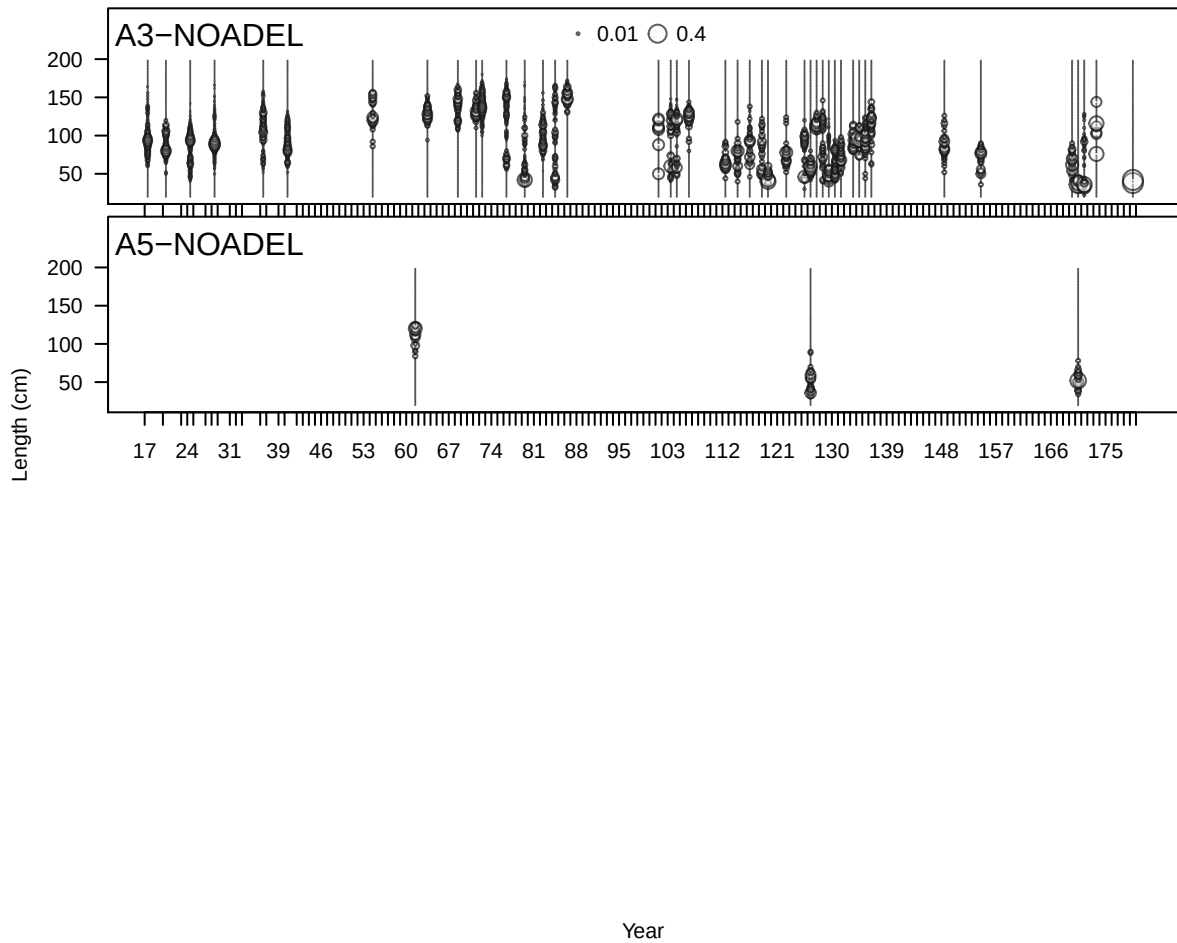
Proportion

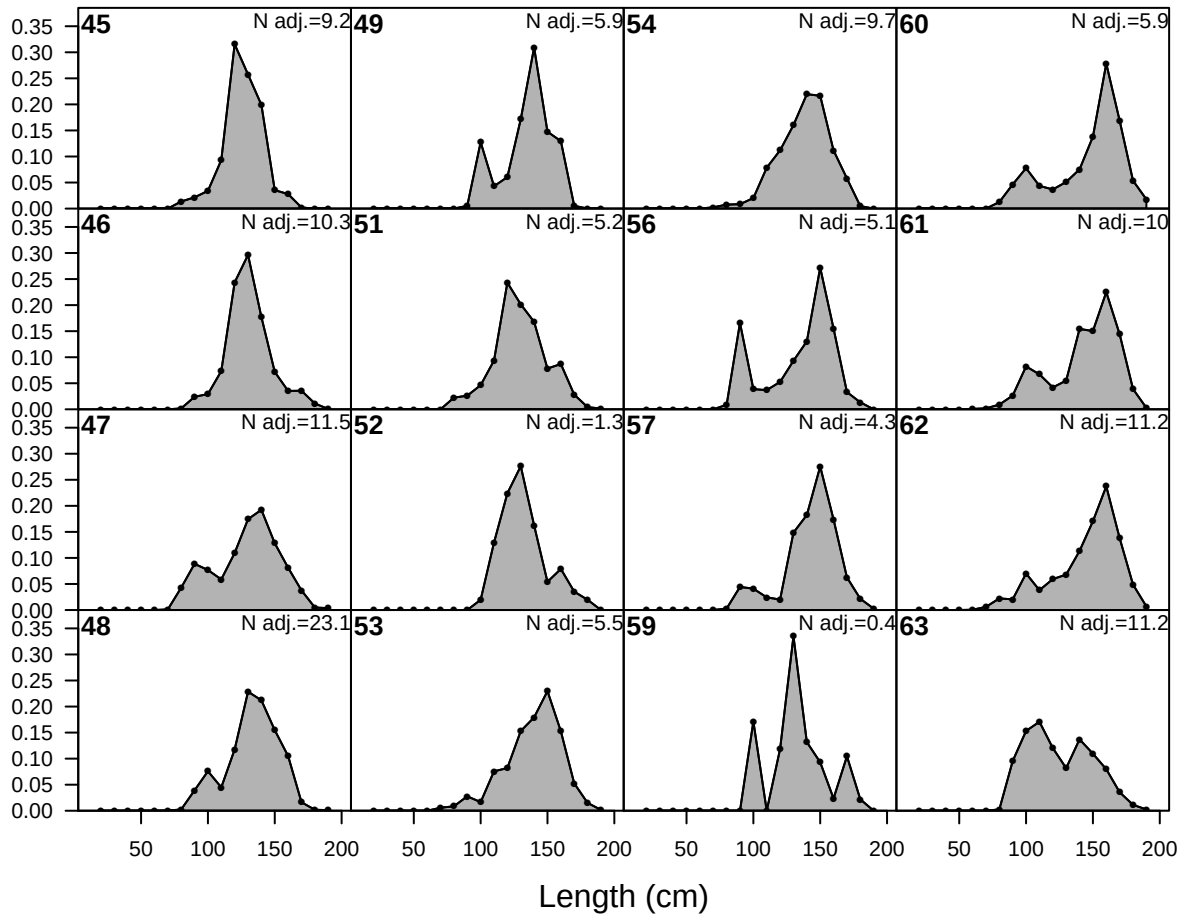




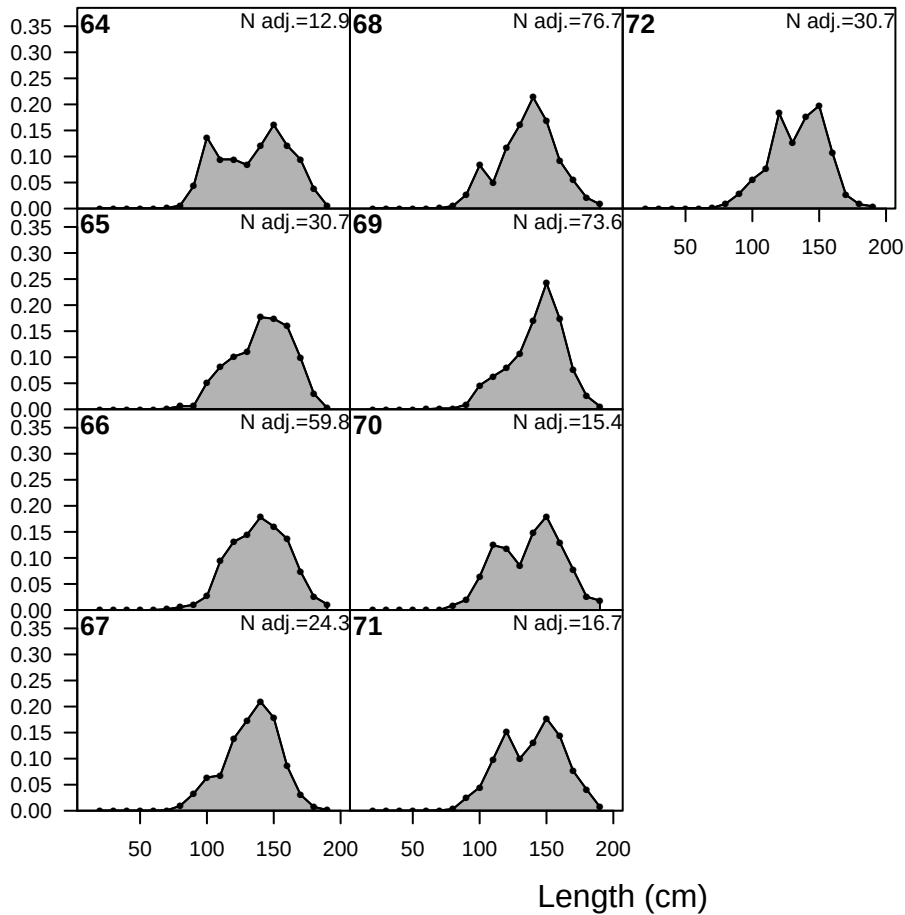


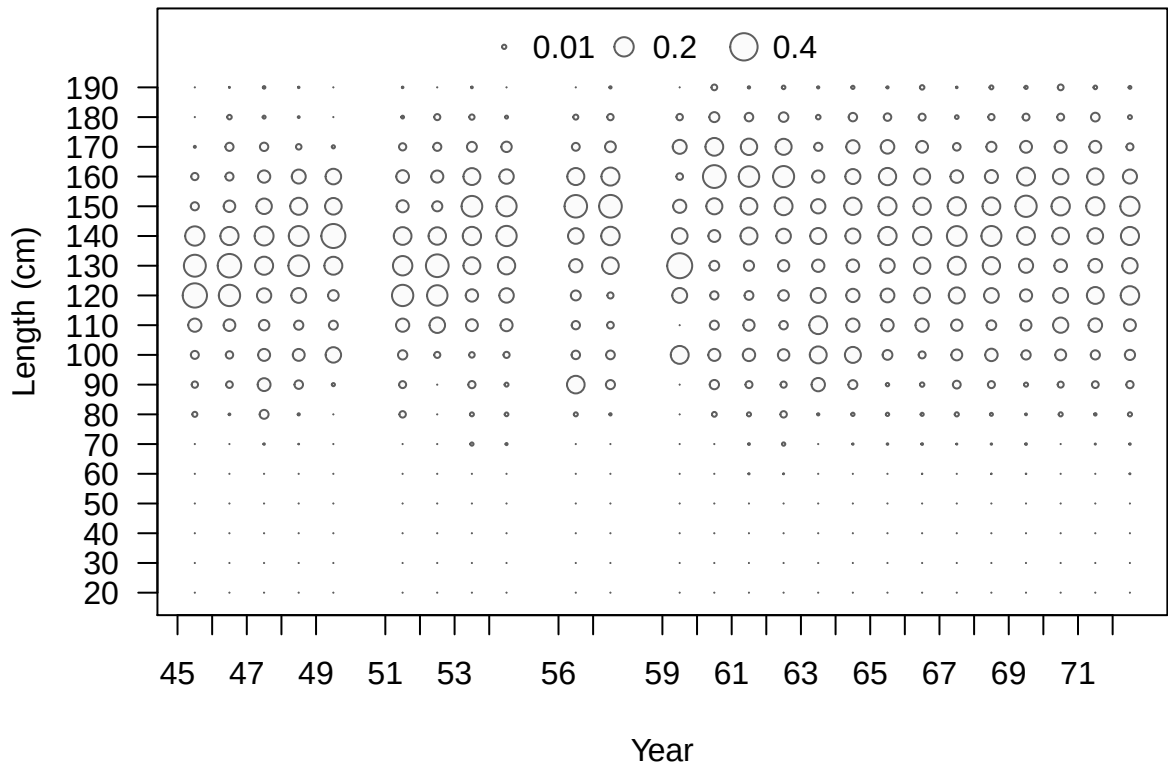




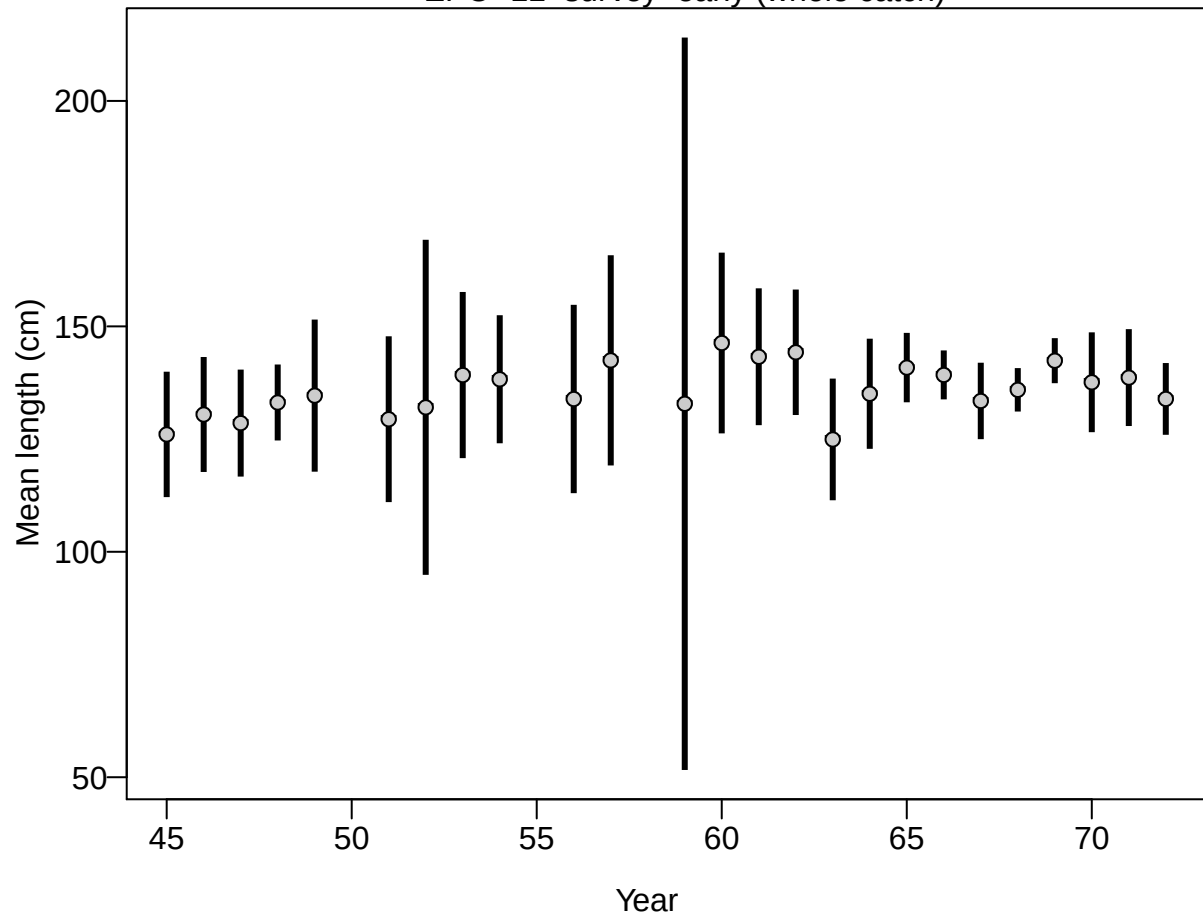


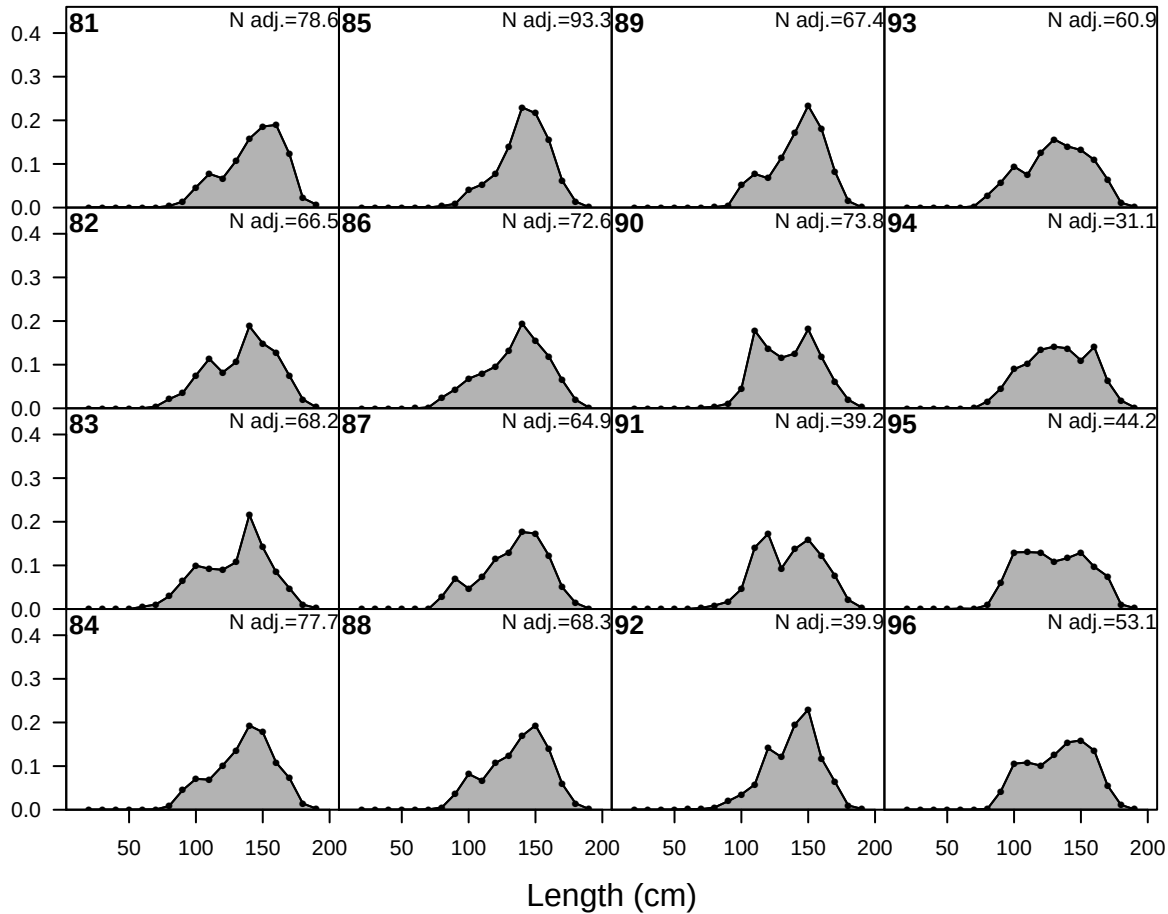
Proportion

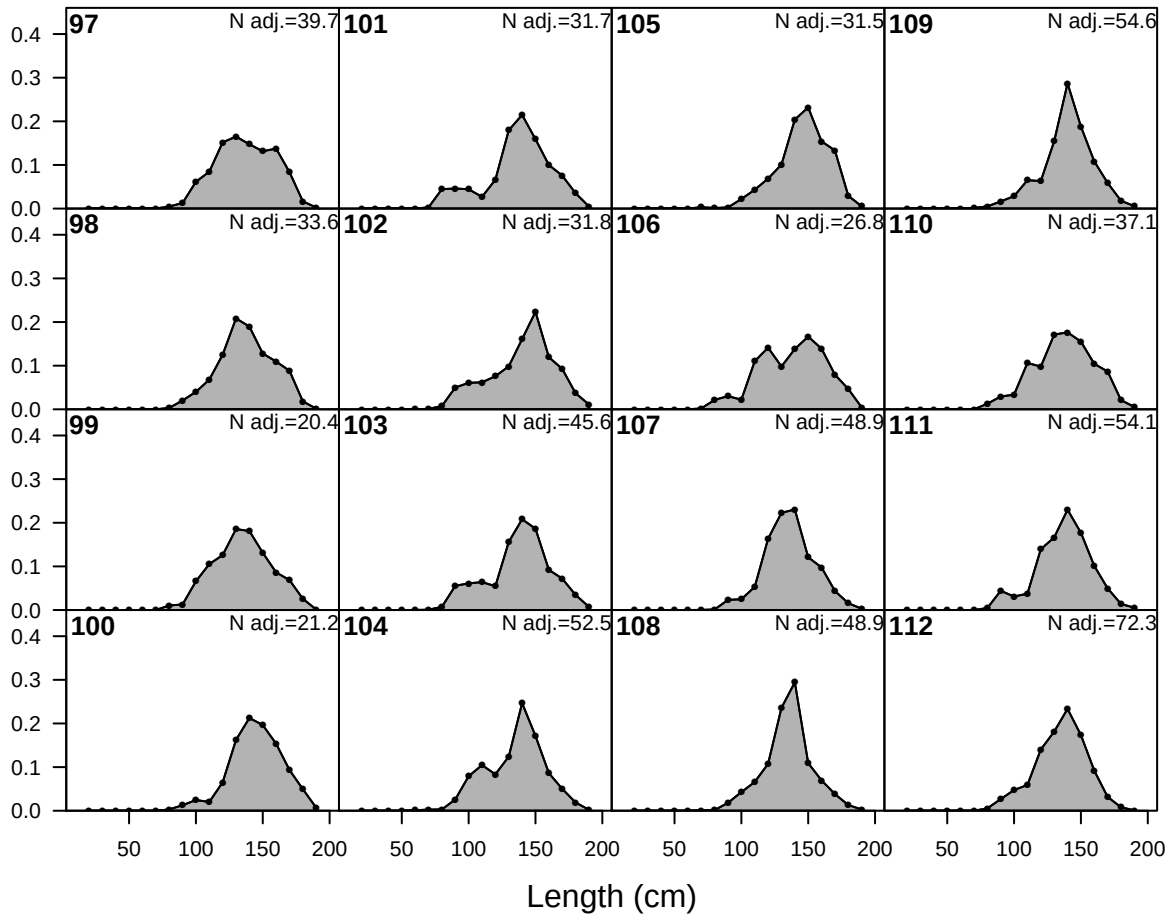


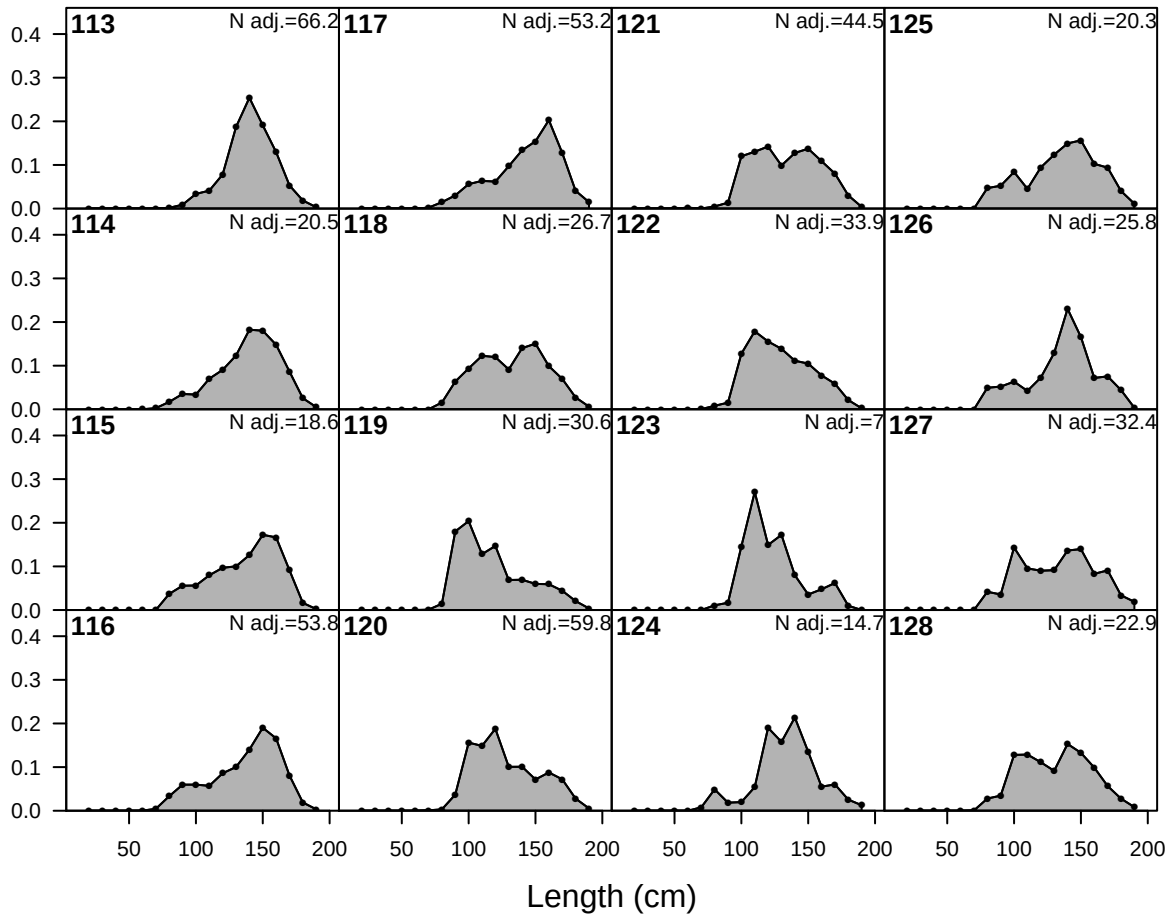


EPO-LL-survey-early (whole catch)

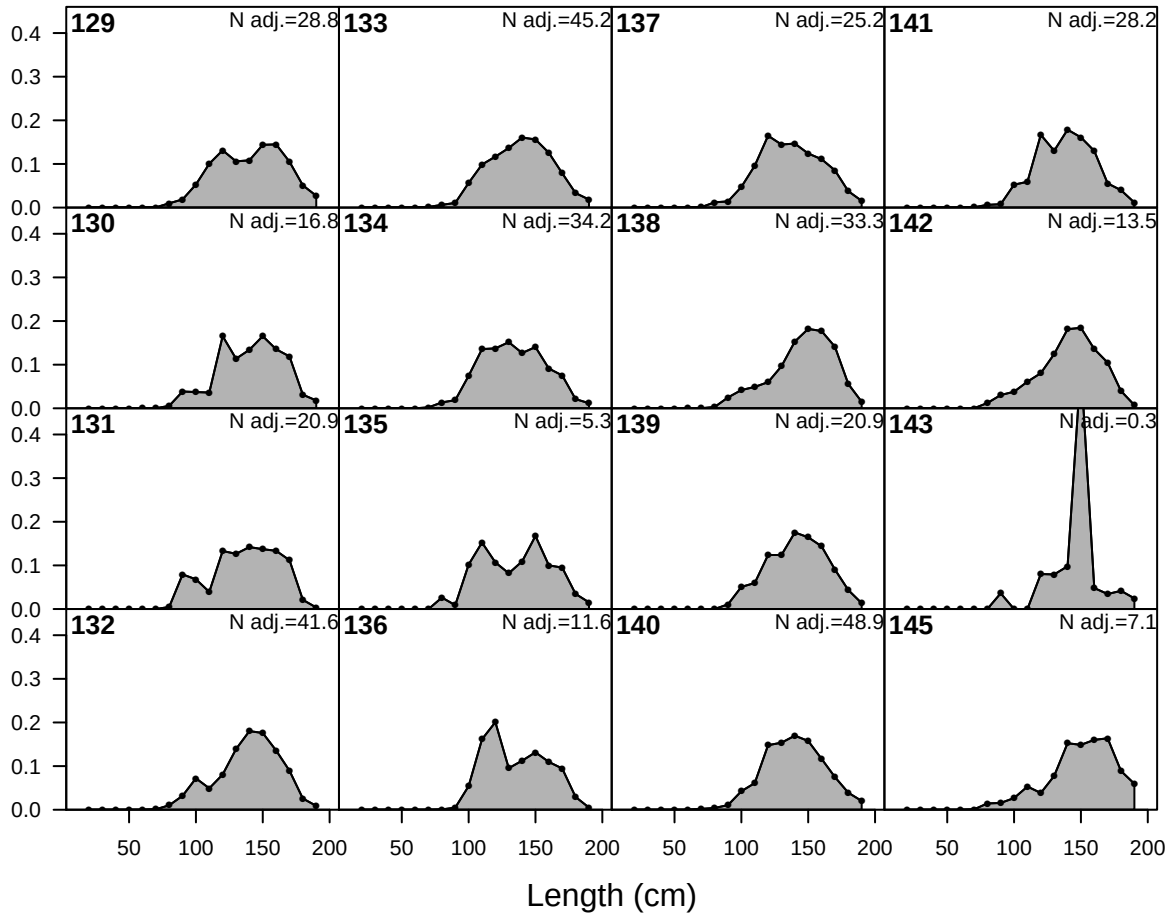


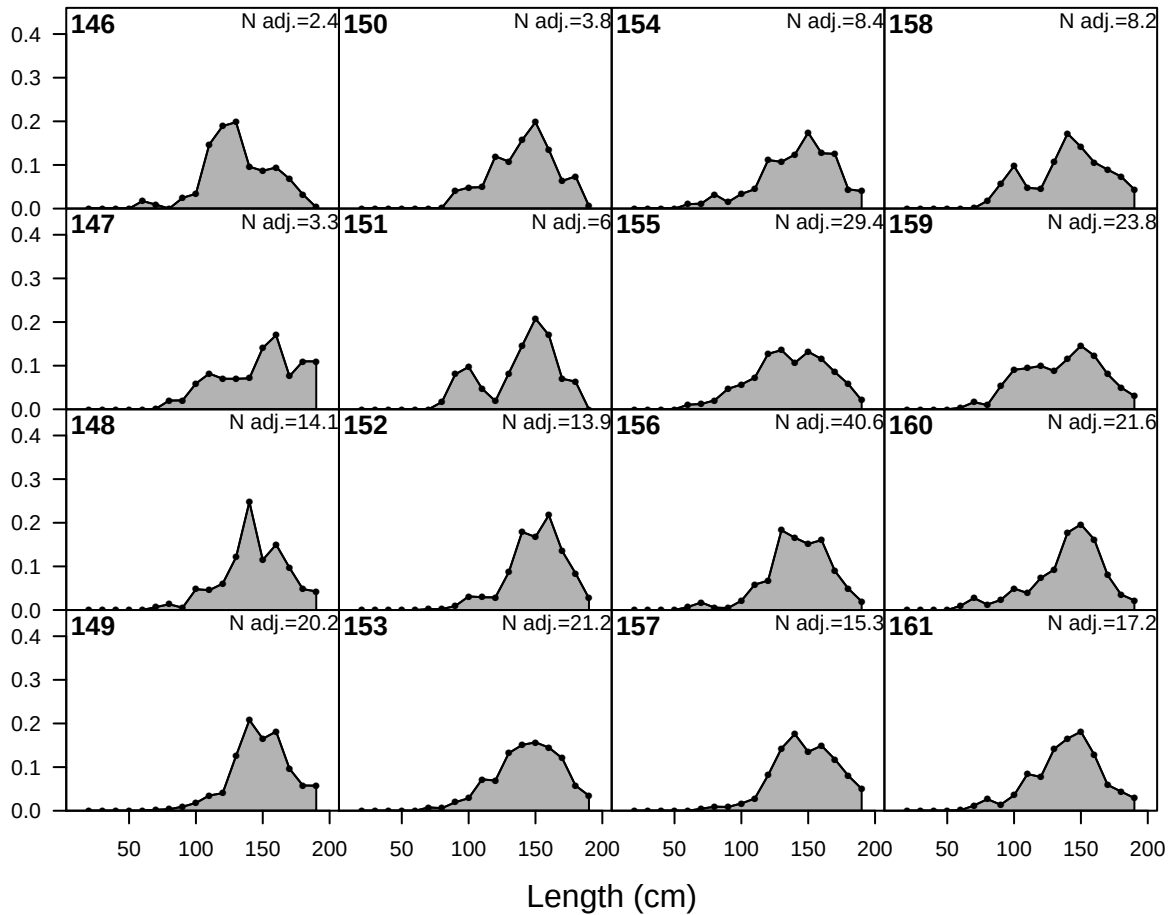




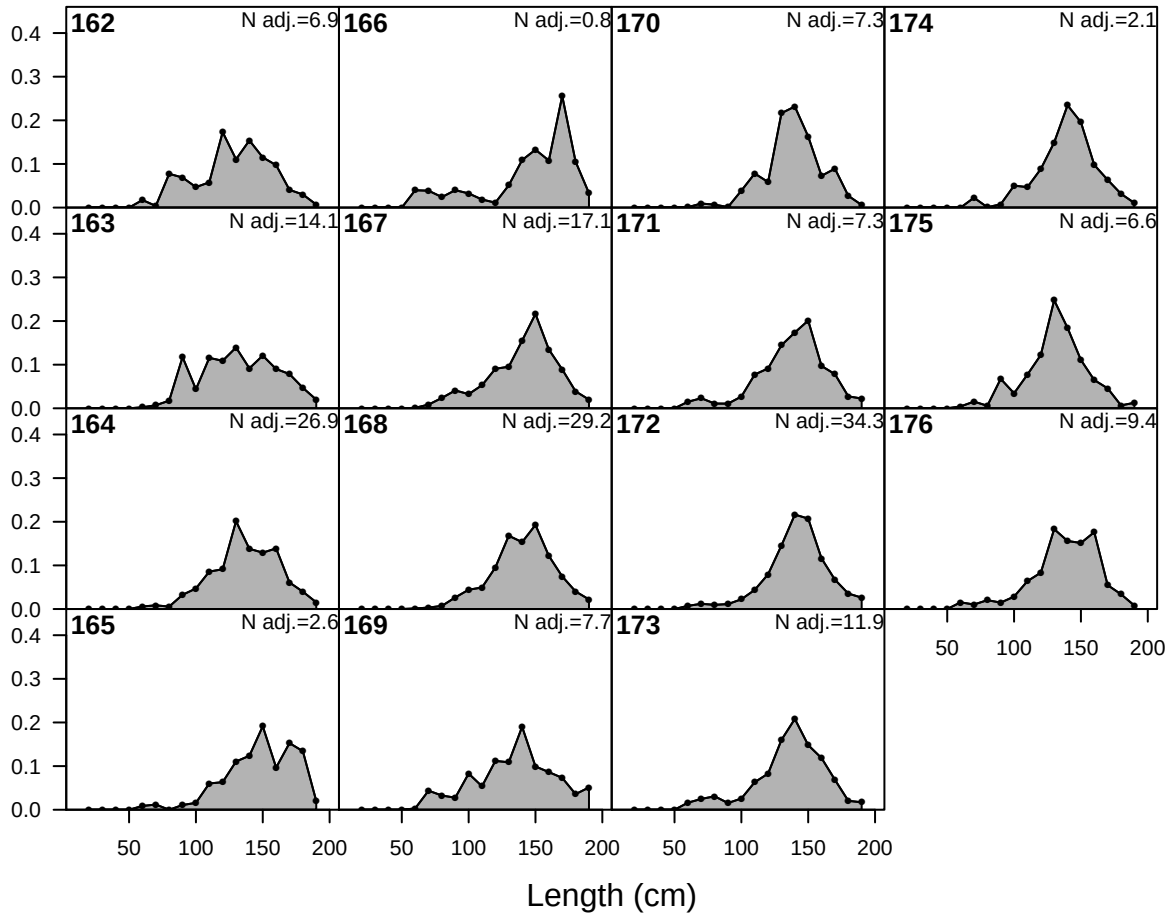


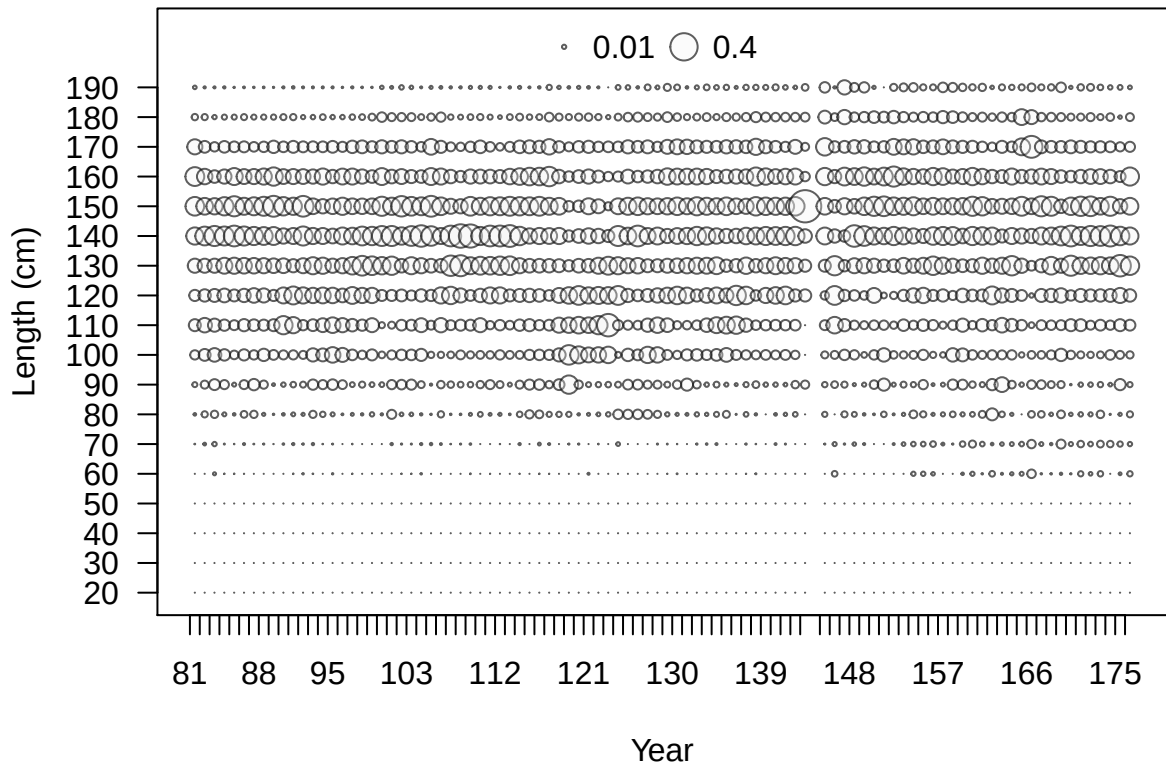
Proportion



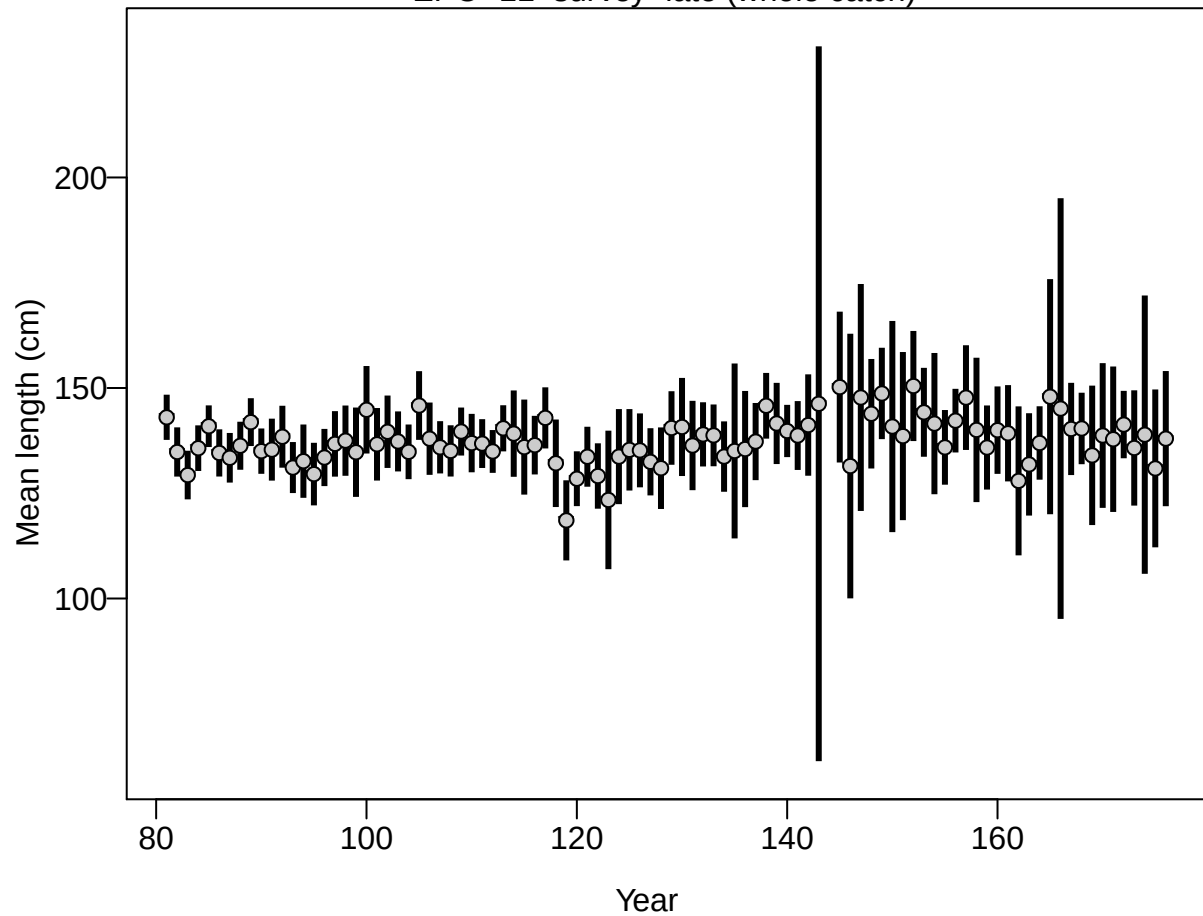


Proportion





EPO-LL-survey-late (whole catch)



Proportion

EPO-LL-survey-early

Sum of N adj.=470.6

0.20

0.15

0.10

0.05

0.00

0.20

EPO-LL-survey-late

Sum of N adj.=2996.3

0.15

0.10

0.05

0.00

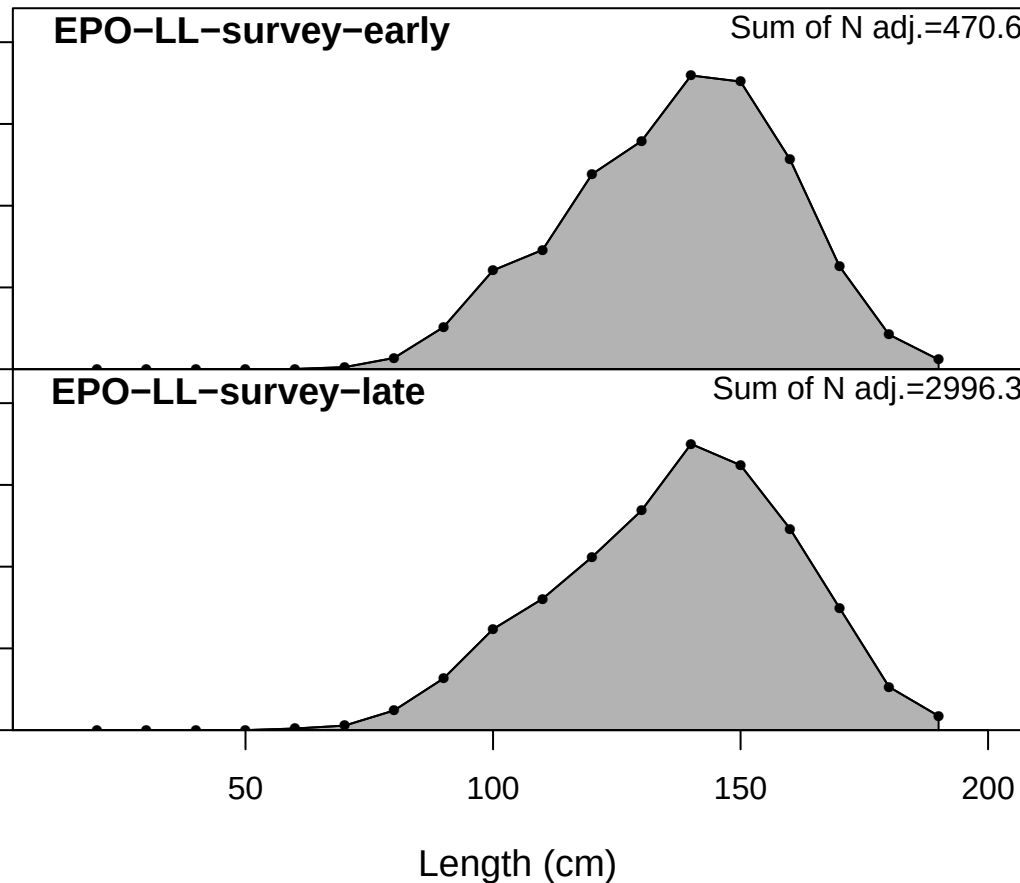
50

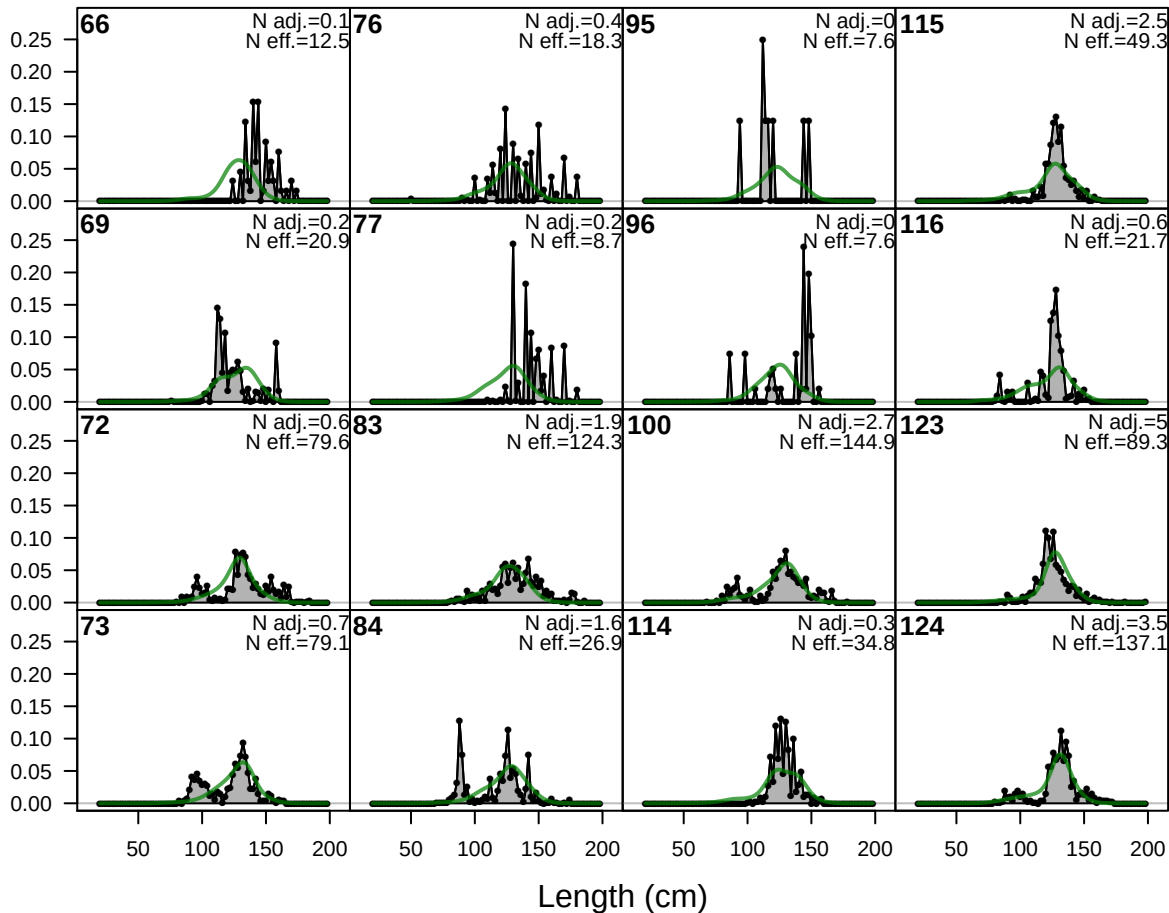
100

150

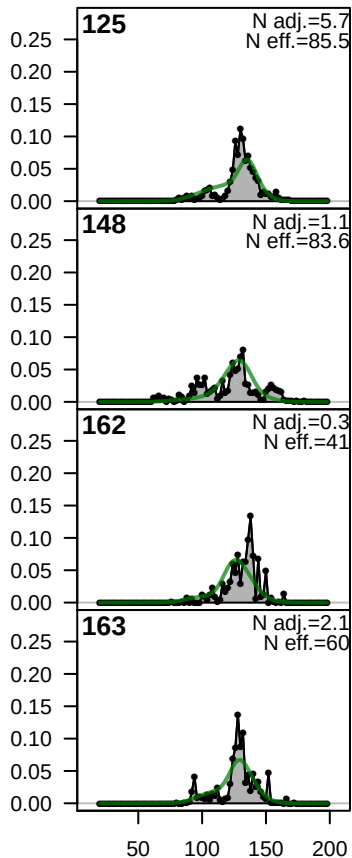
200

Length (cm)

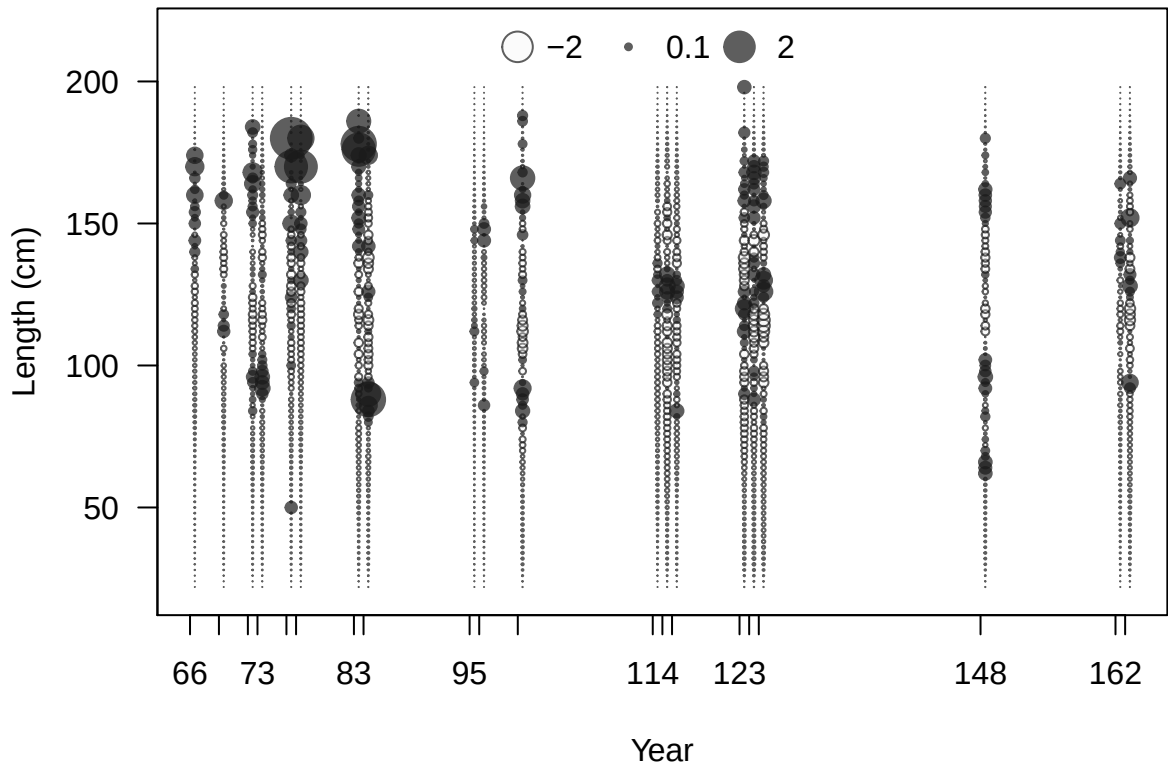


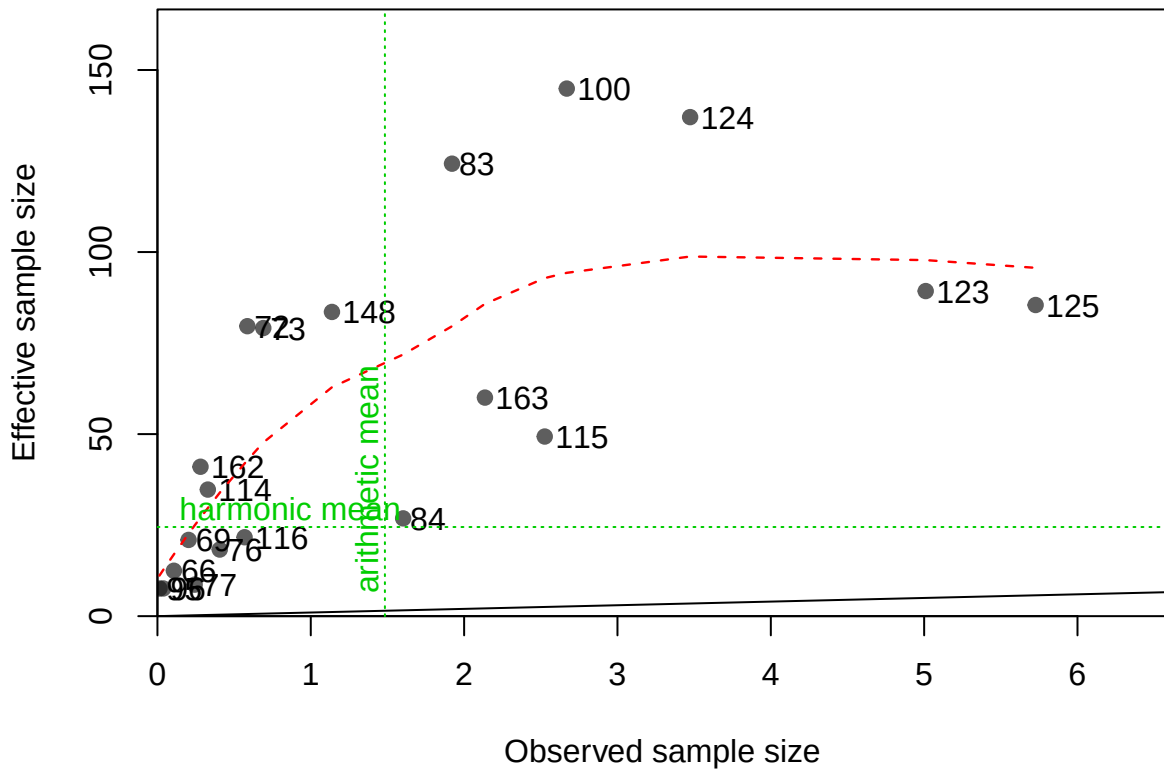


Proportion

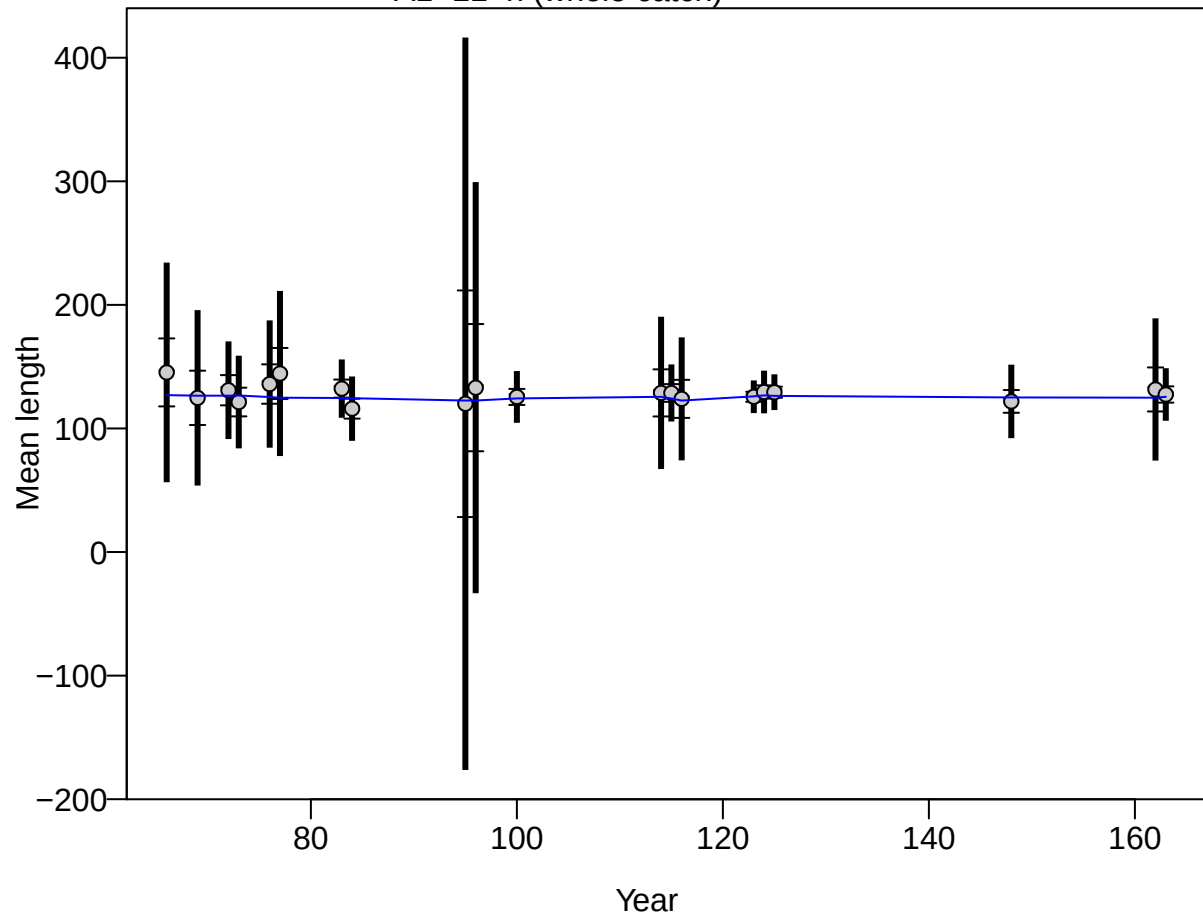


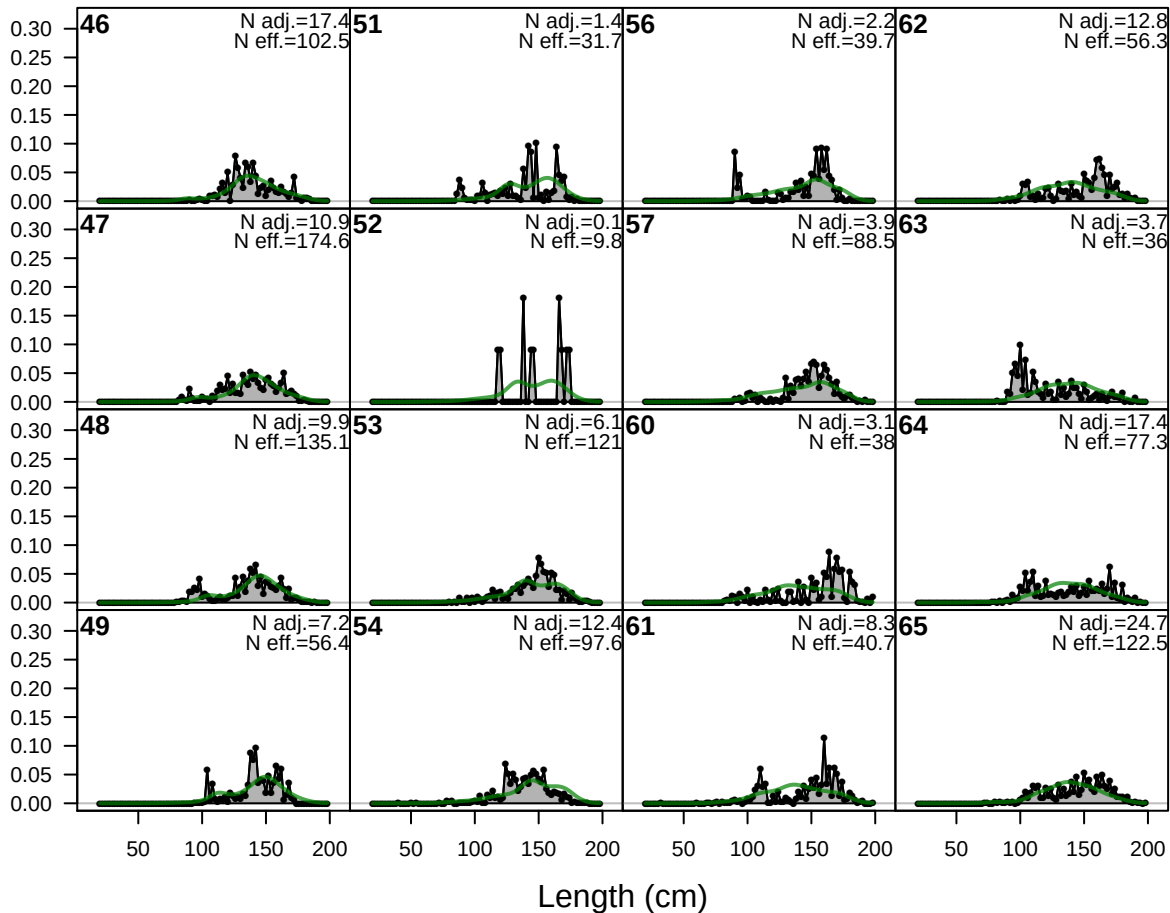
Length (cm)

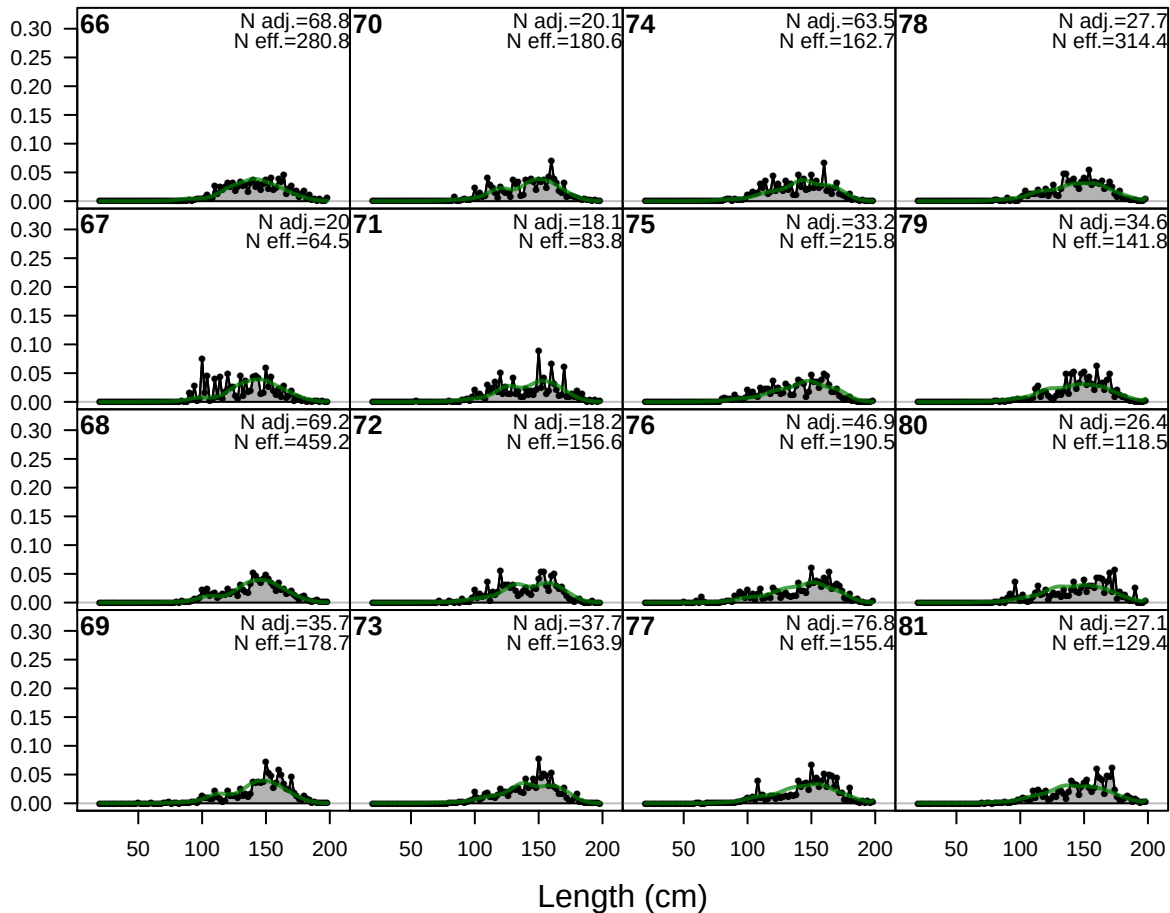




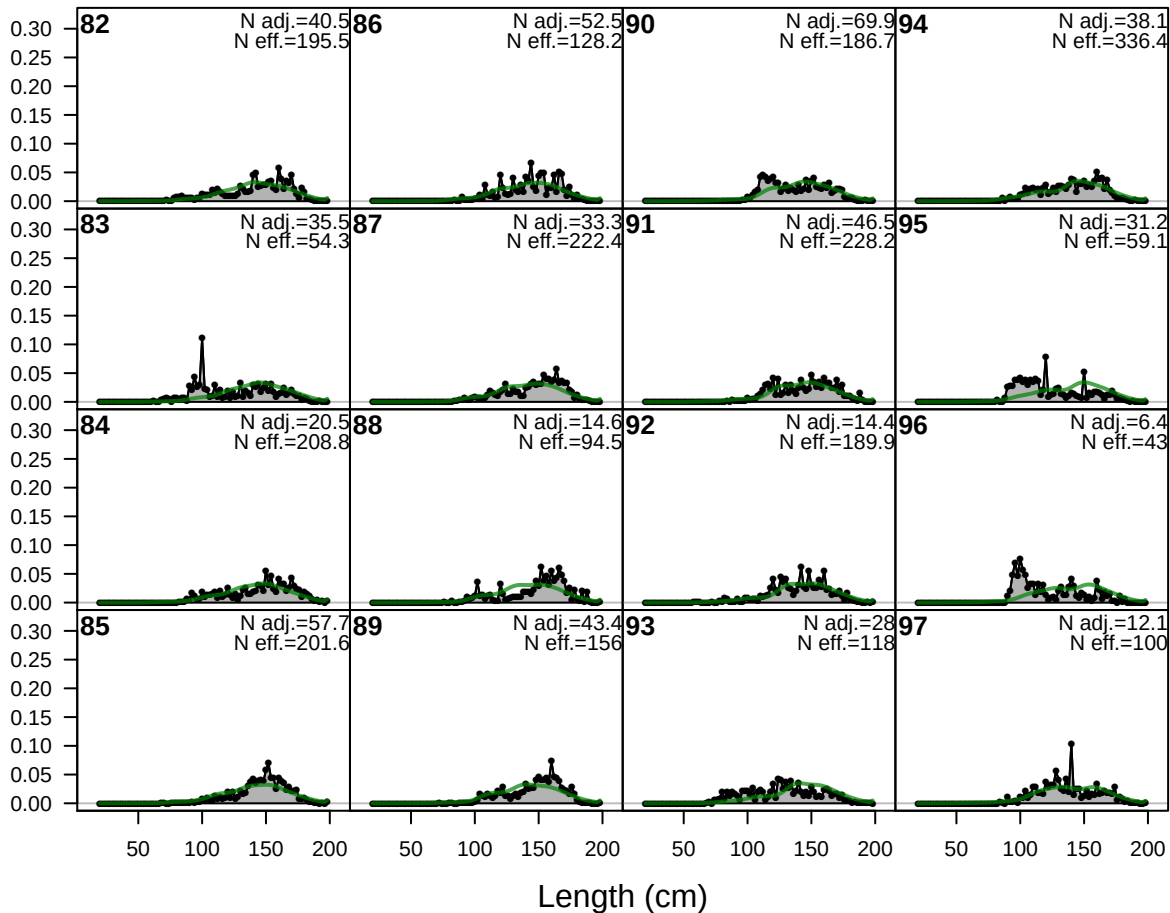
A1-LL-n (whole catch)

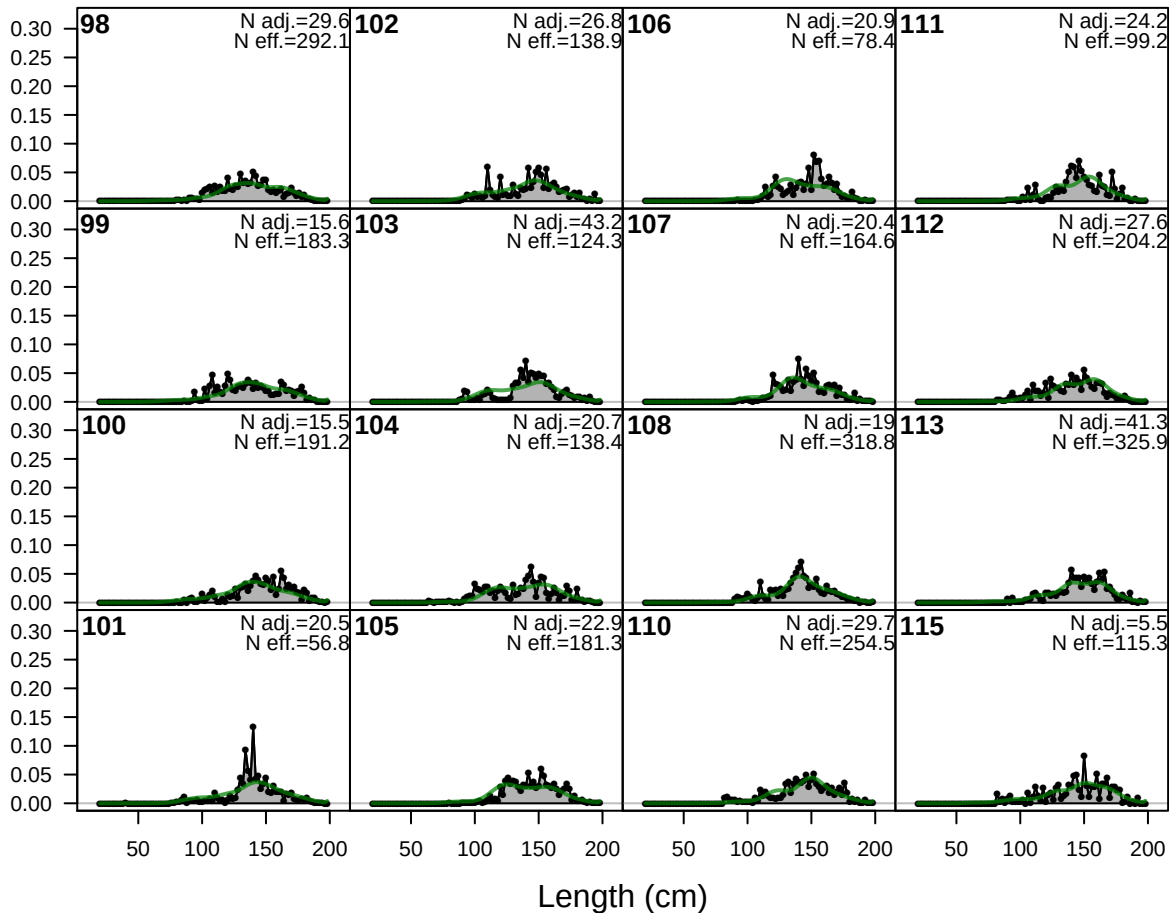


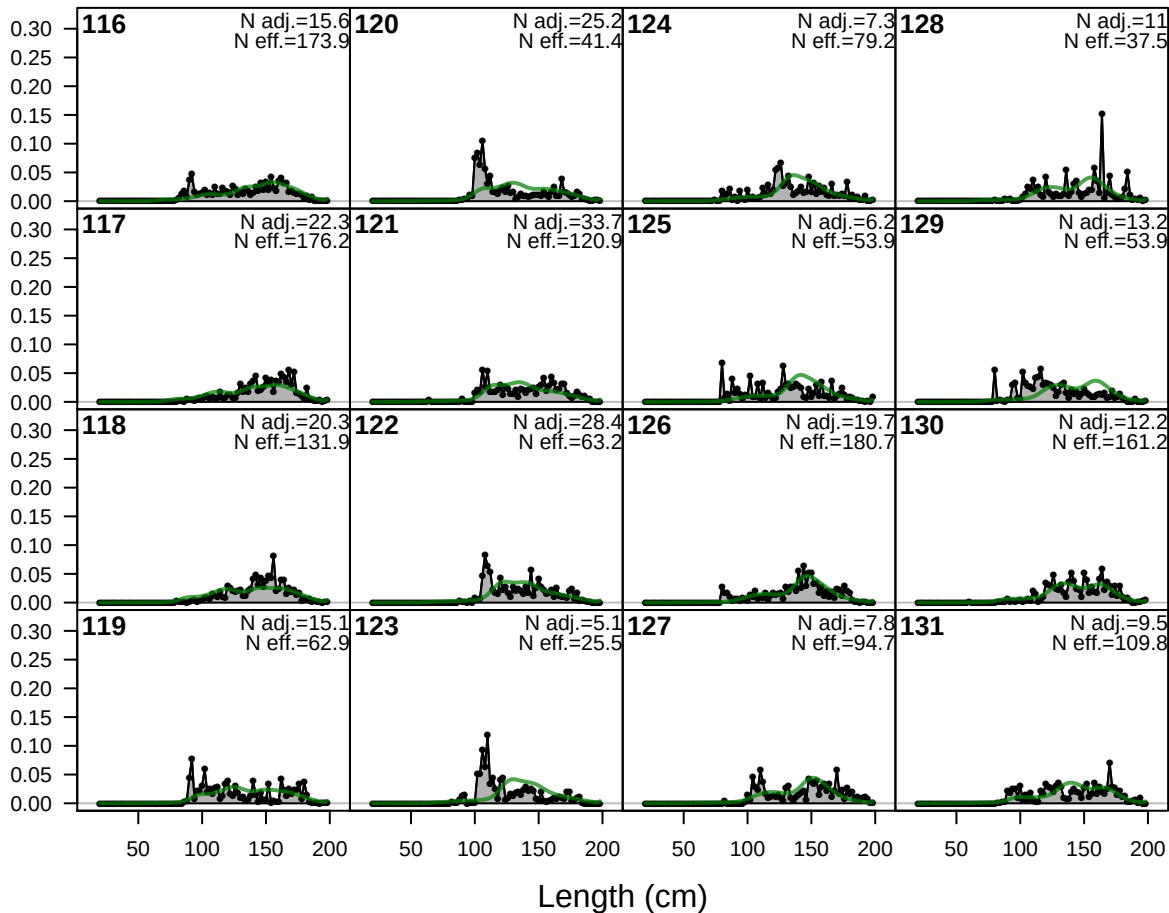


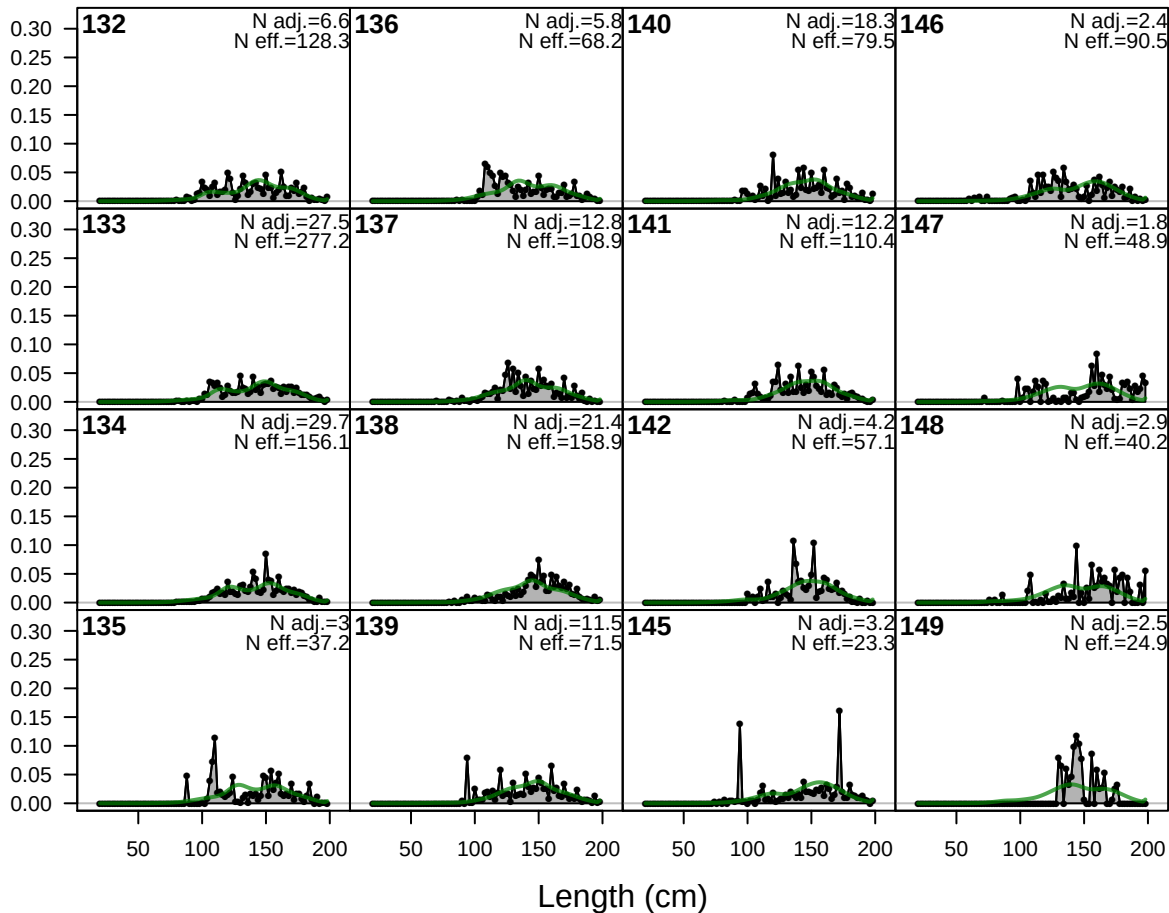


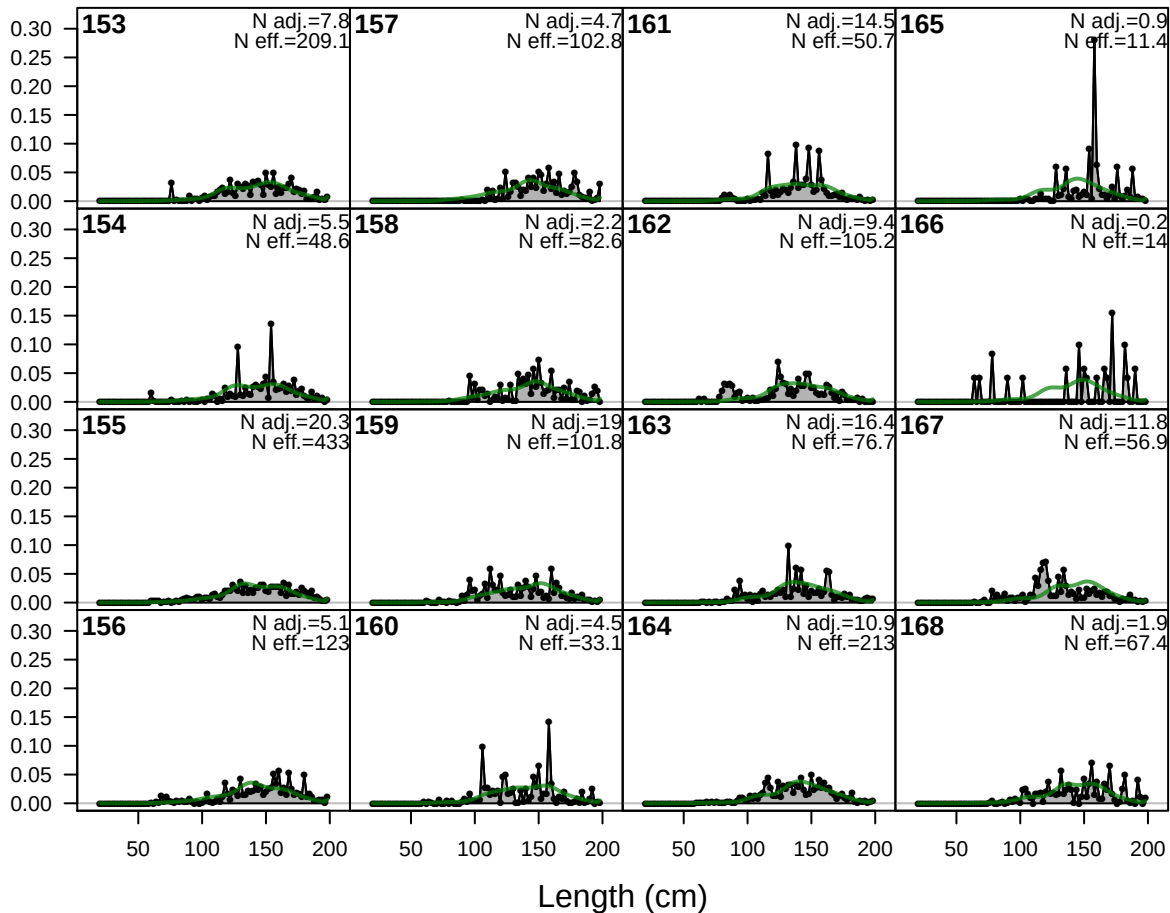
Proportion



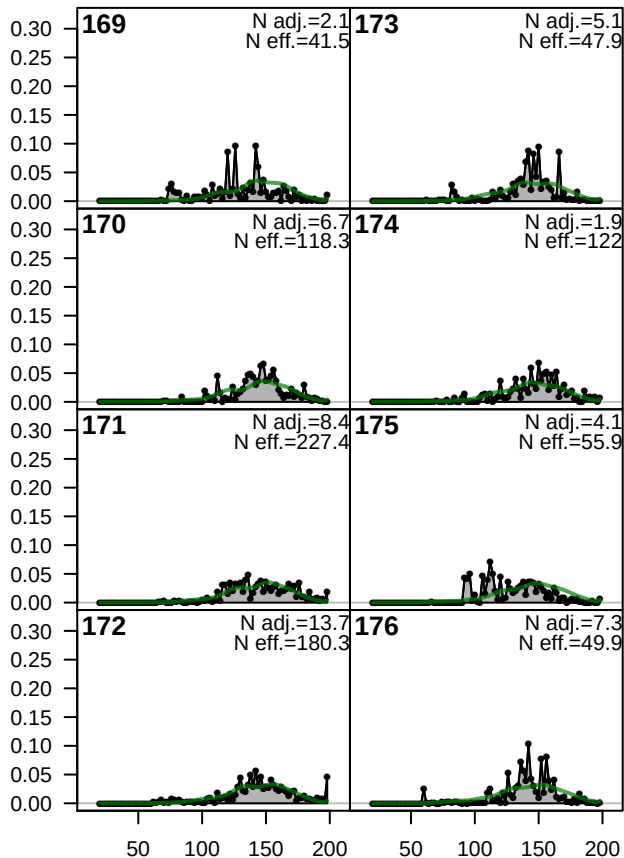




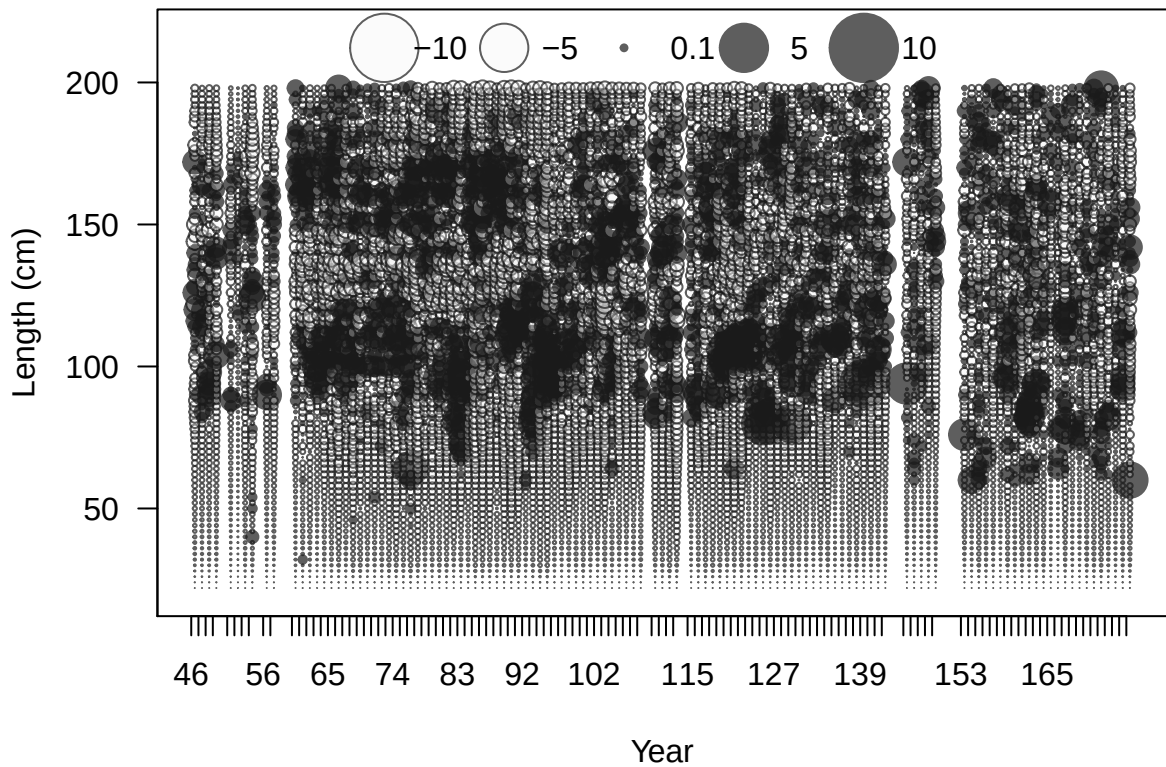




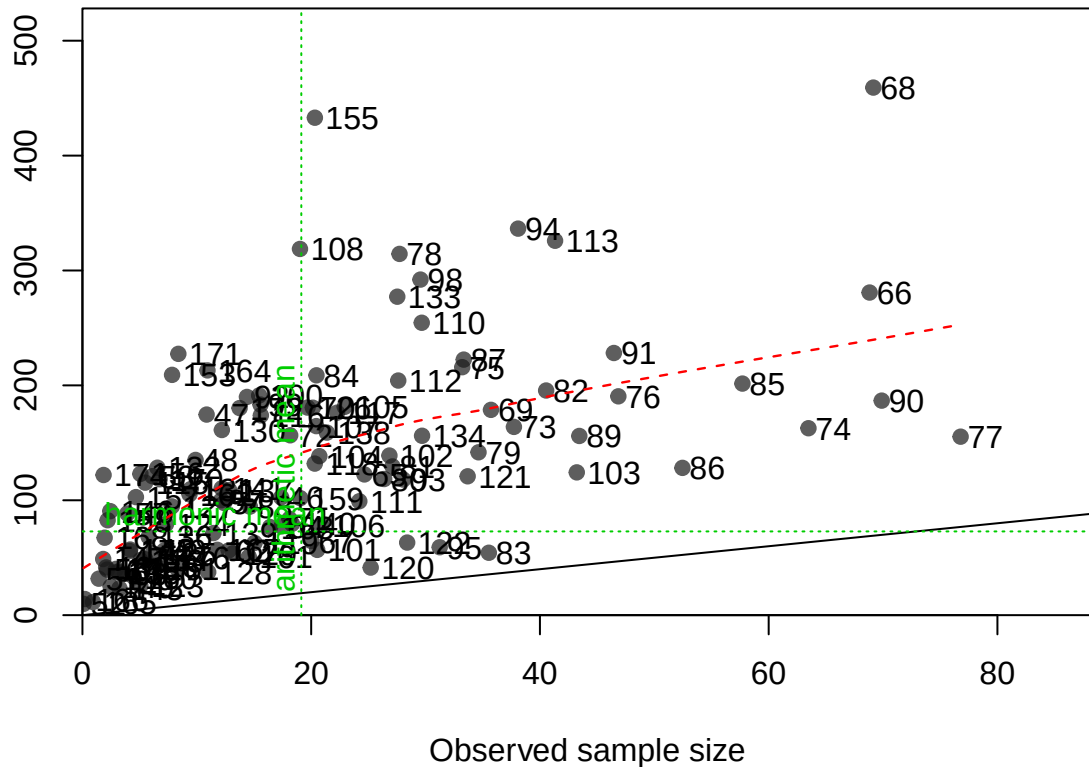
Proportion



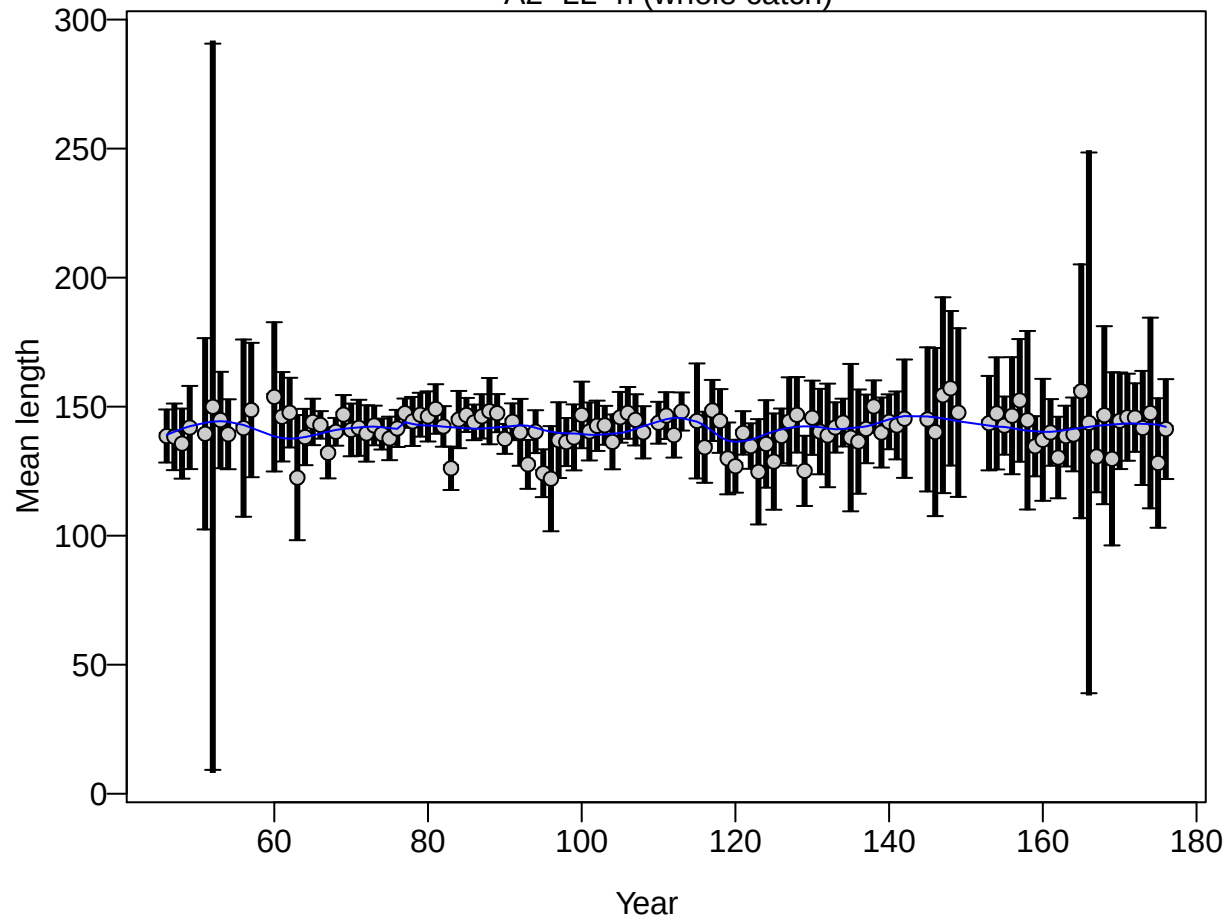
Length (cm)

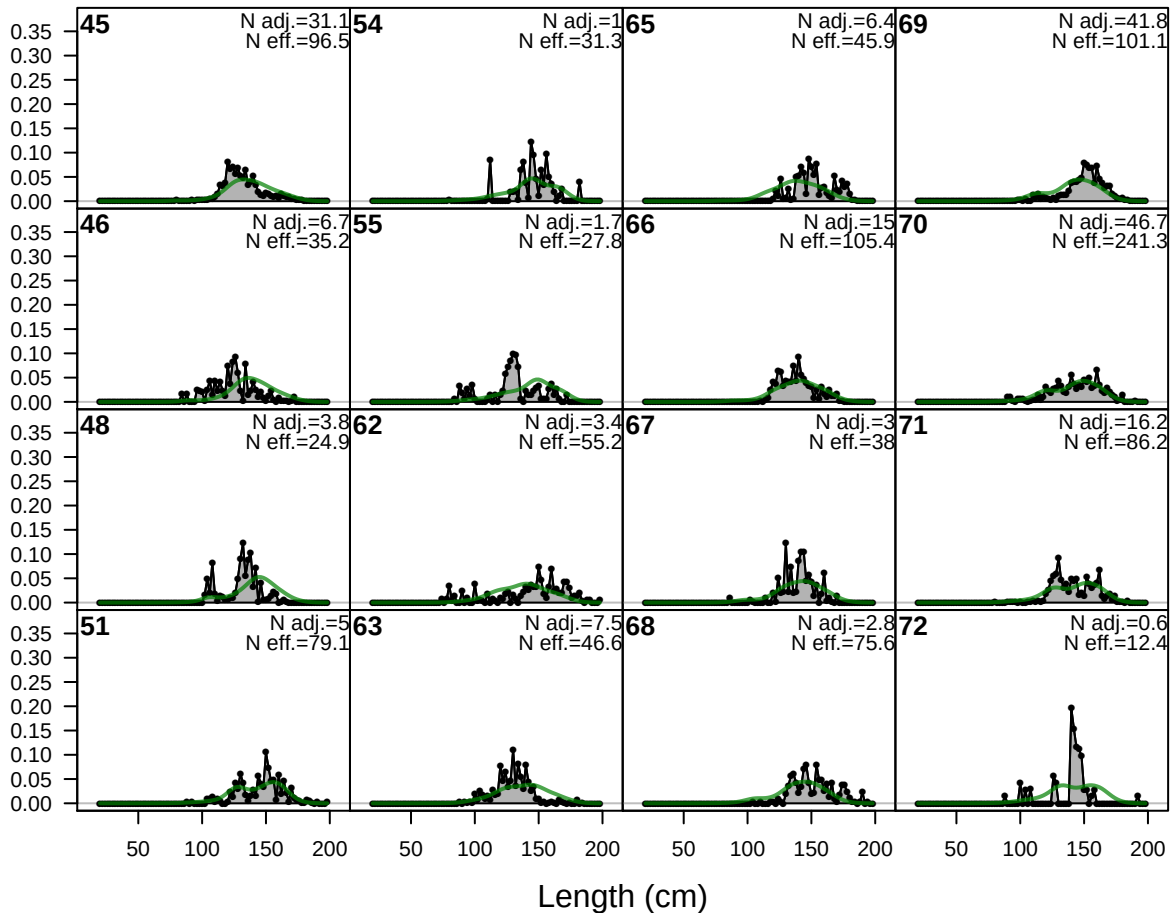


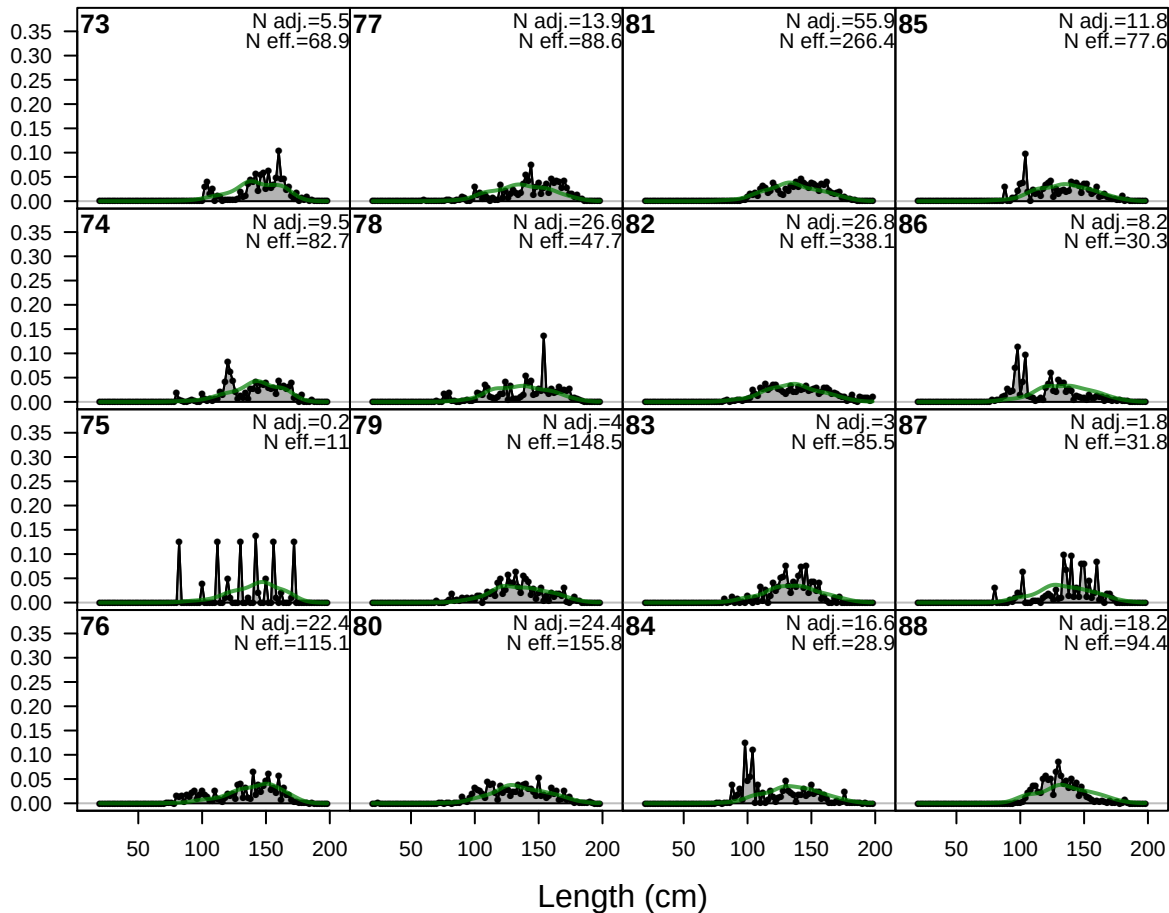
Effective sample size

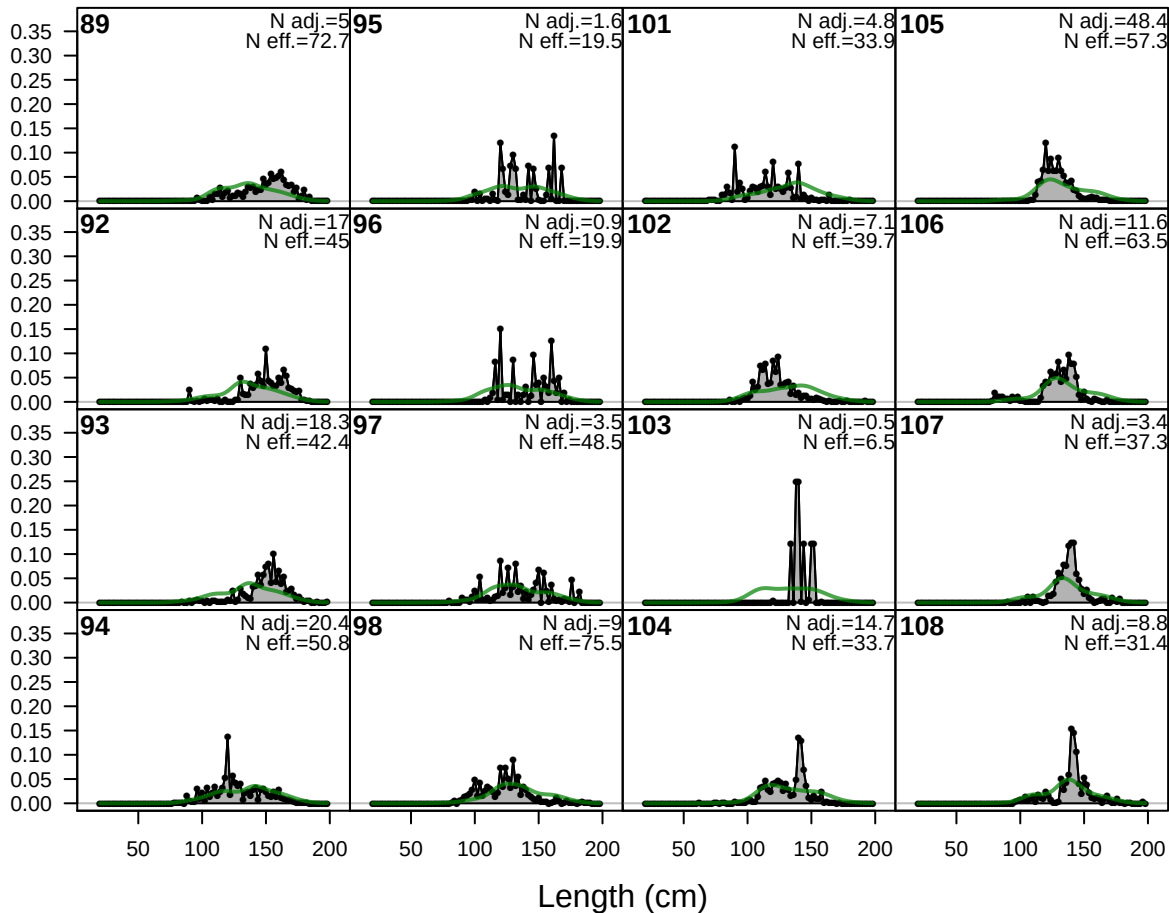


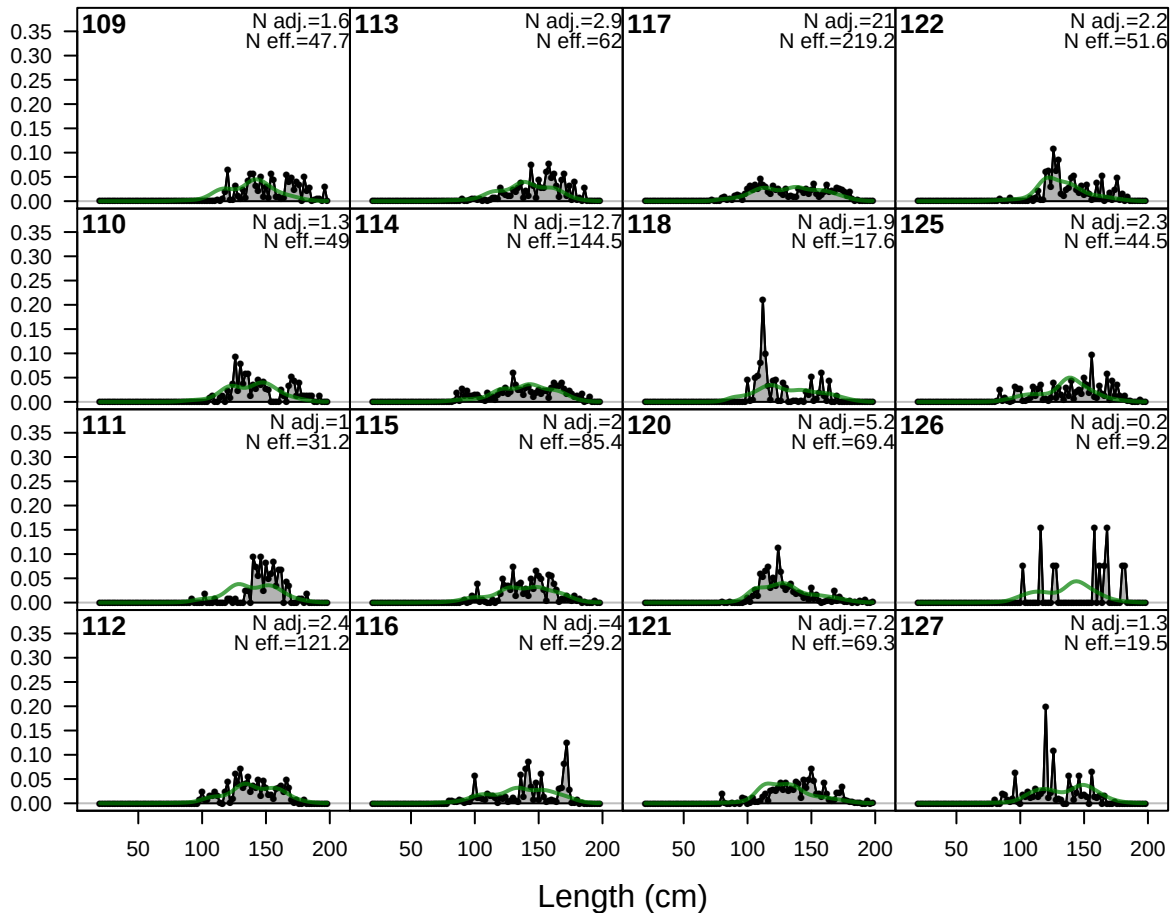
A2-LL-n (whole catch)

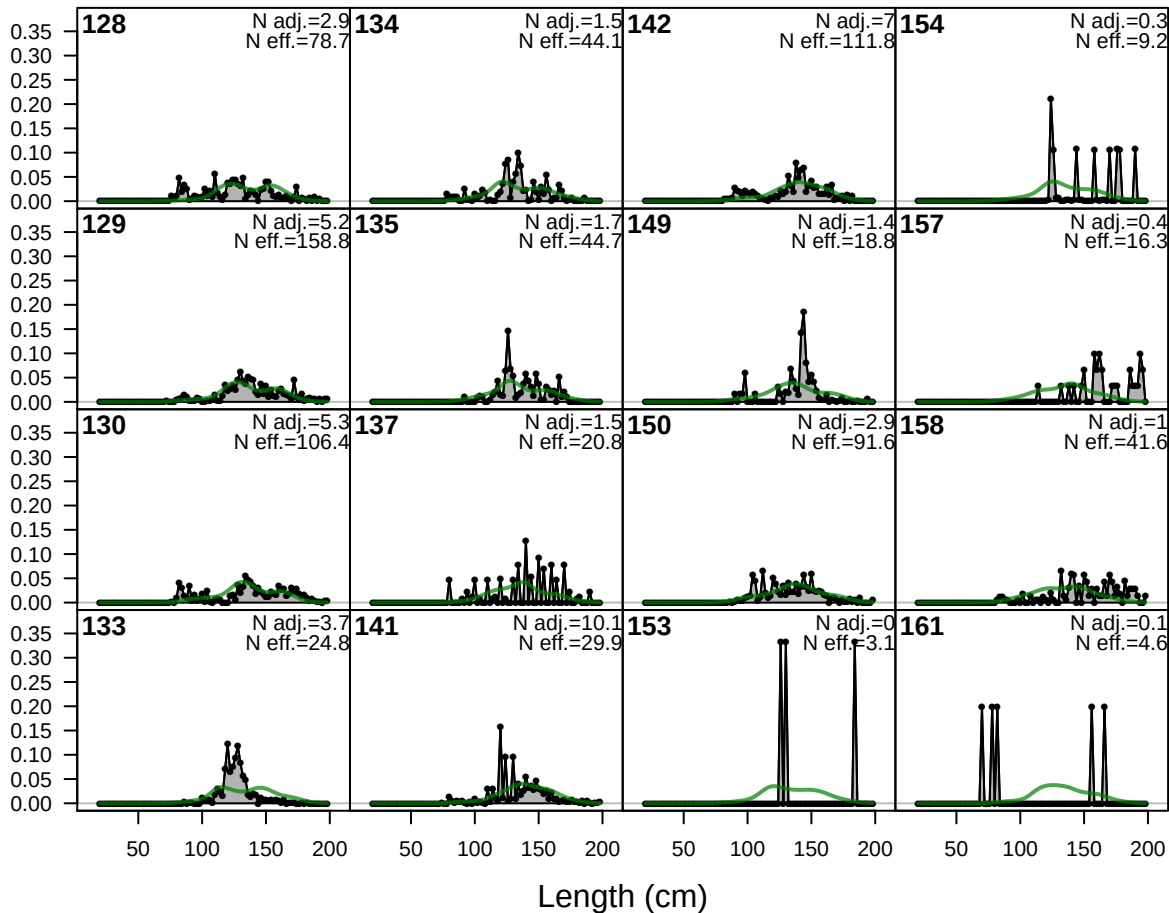




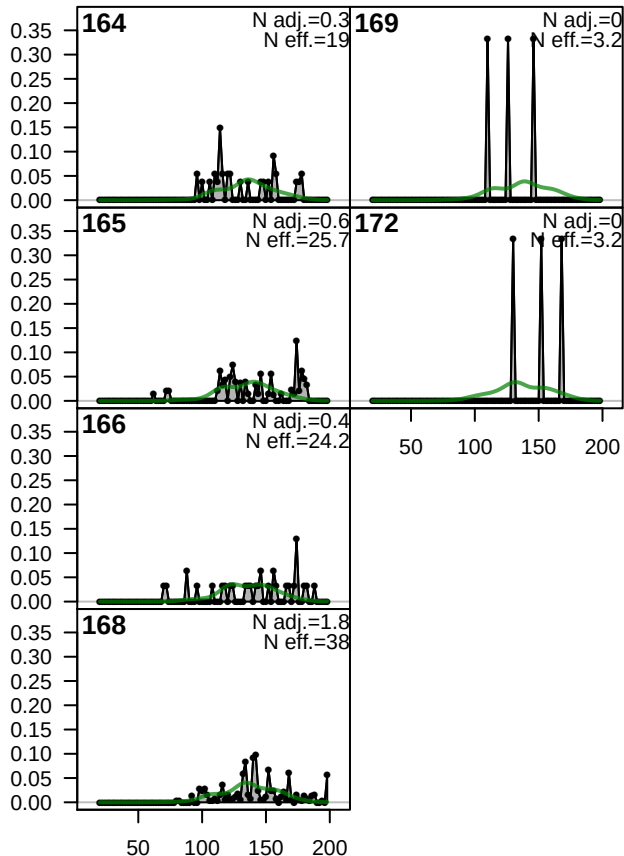




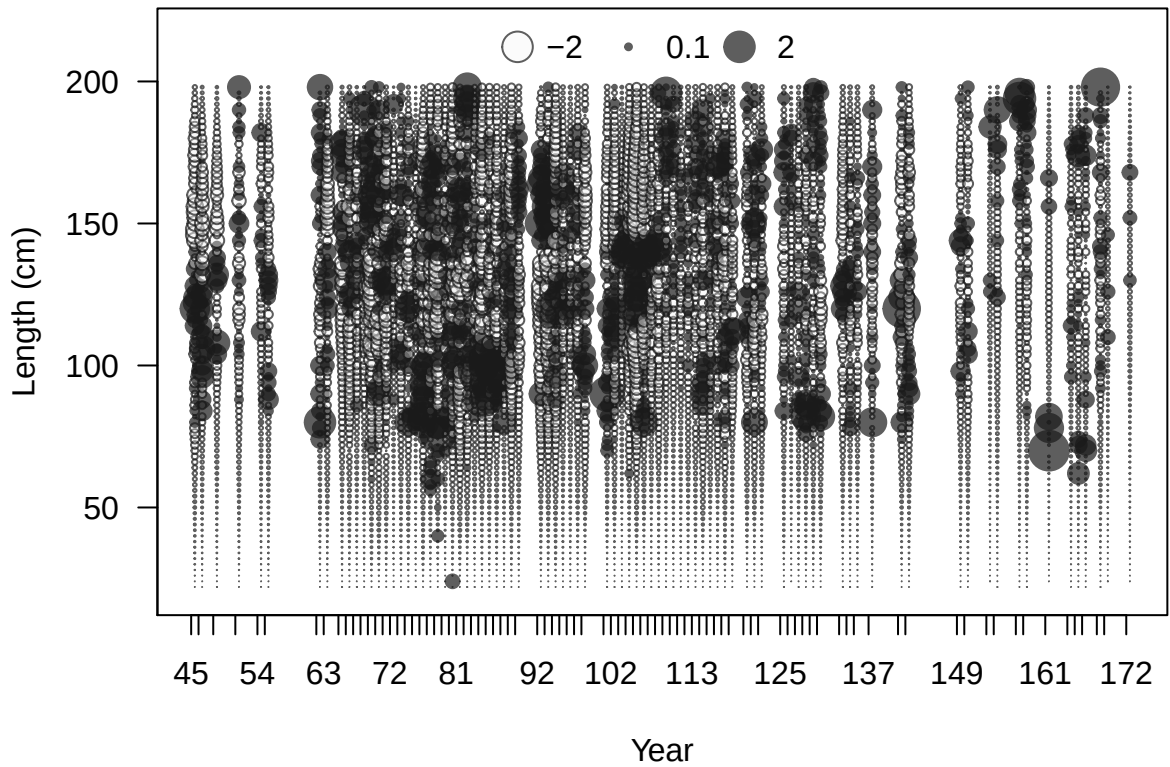


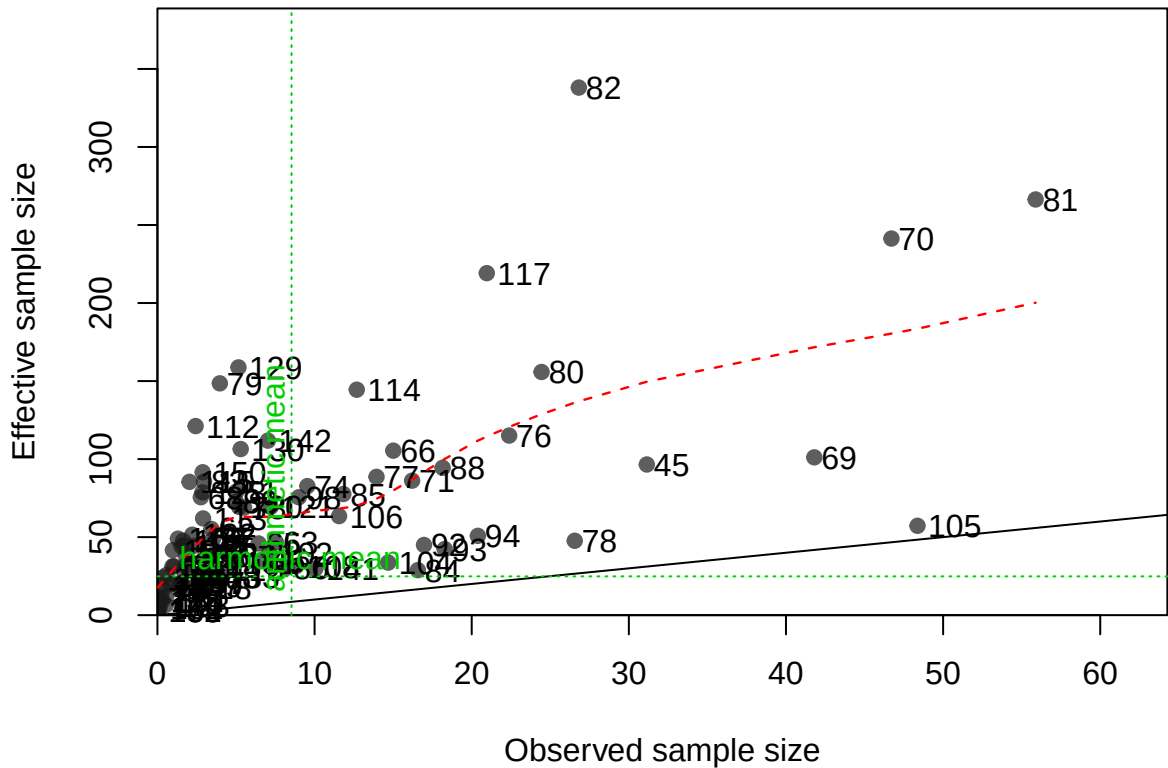


Proportion

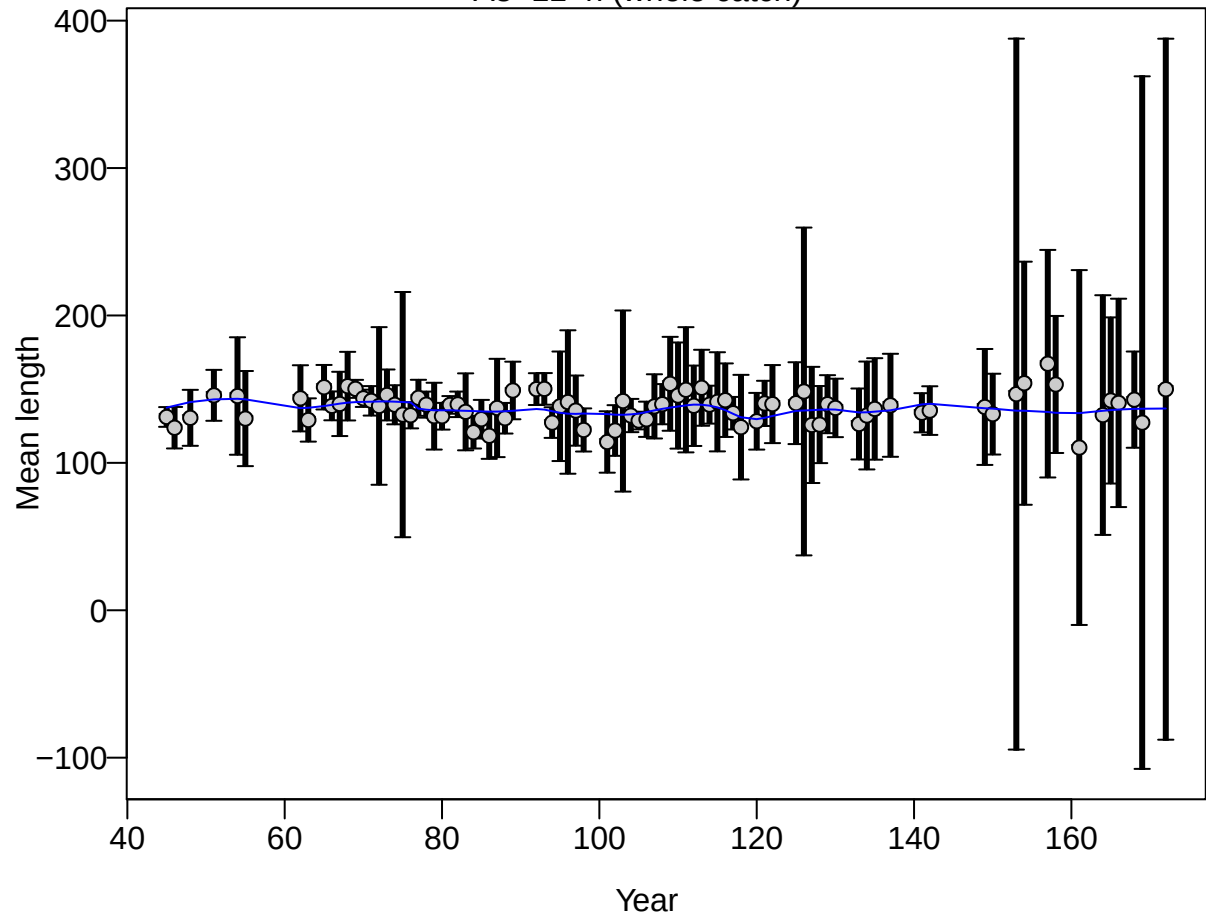


Length (cm)

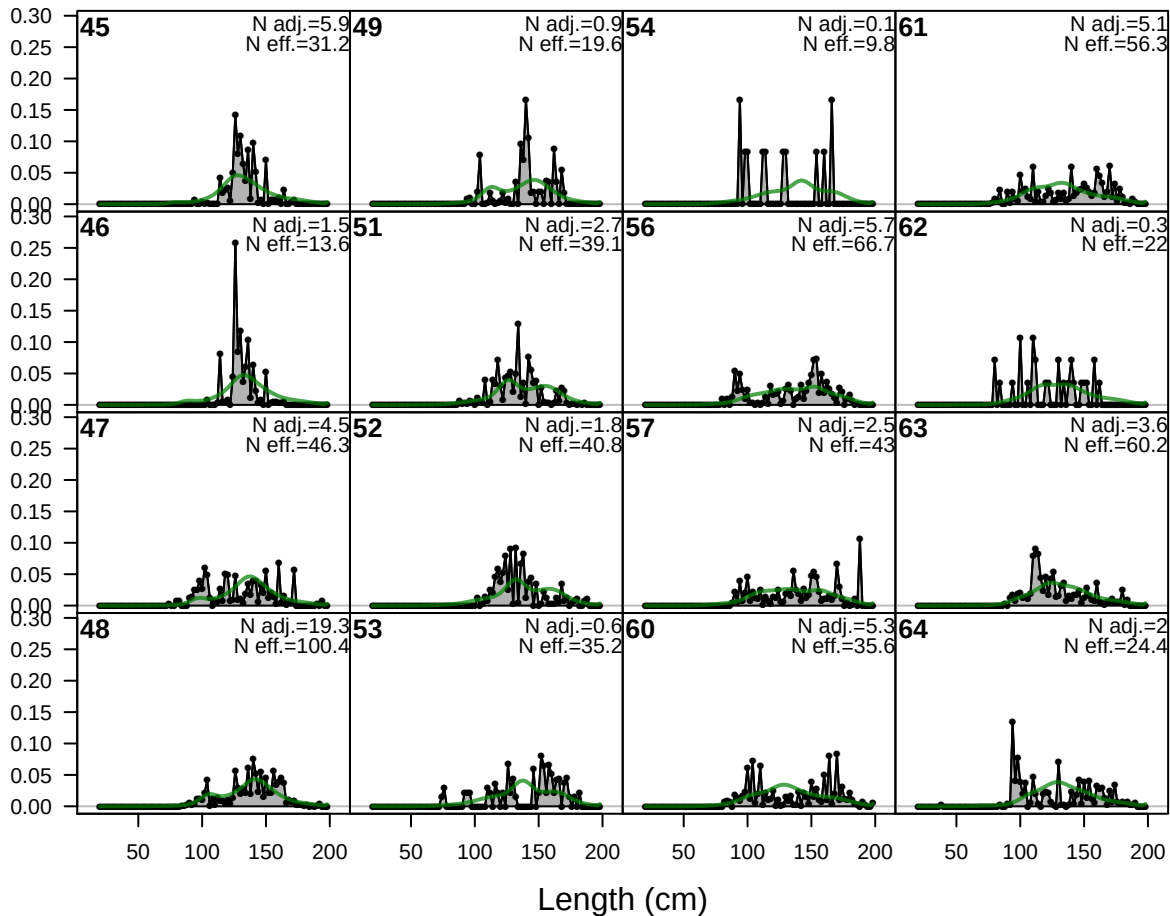


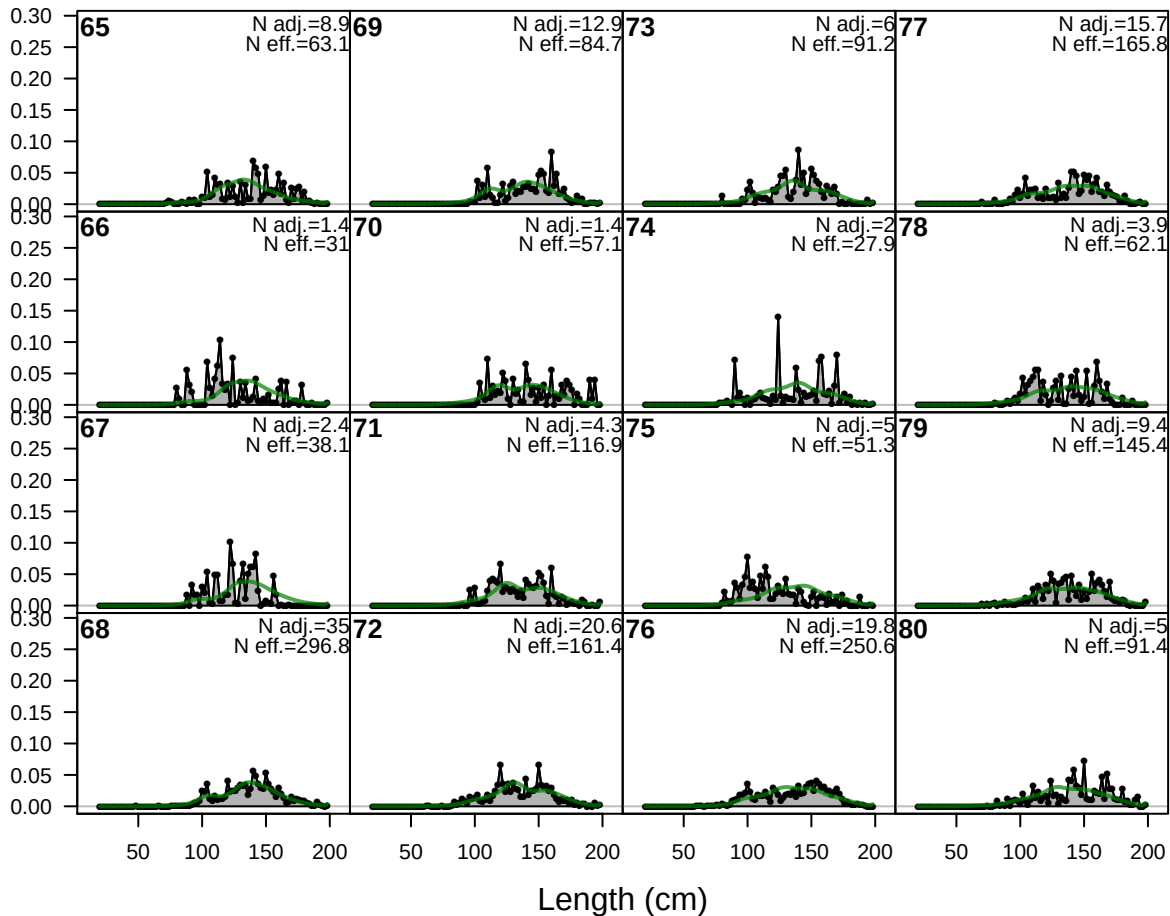


A3-LL-n (whole catch)

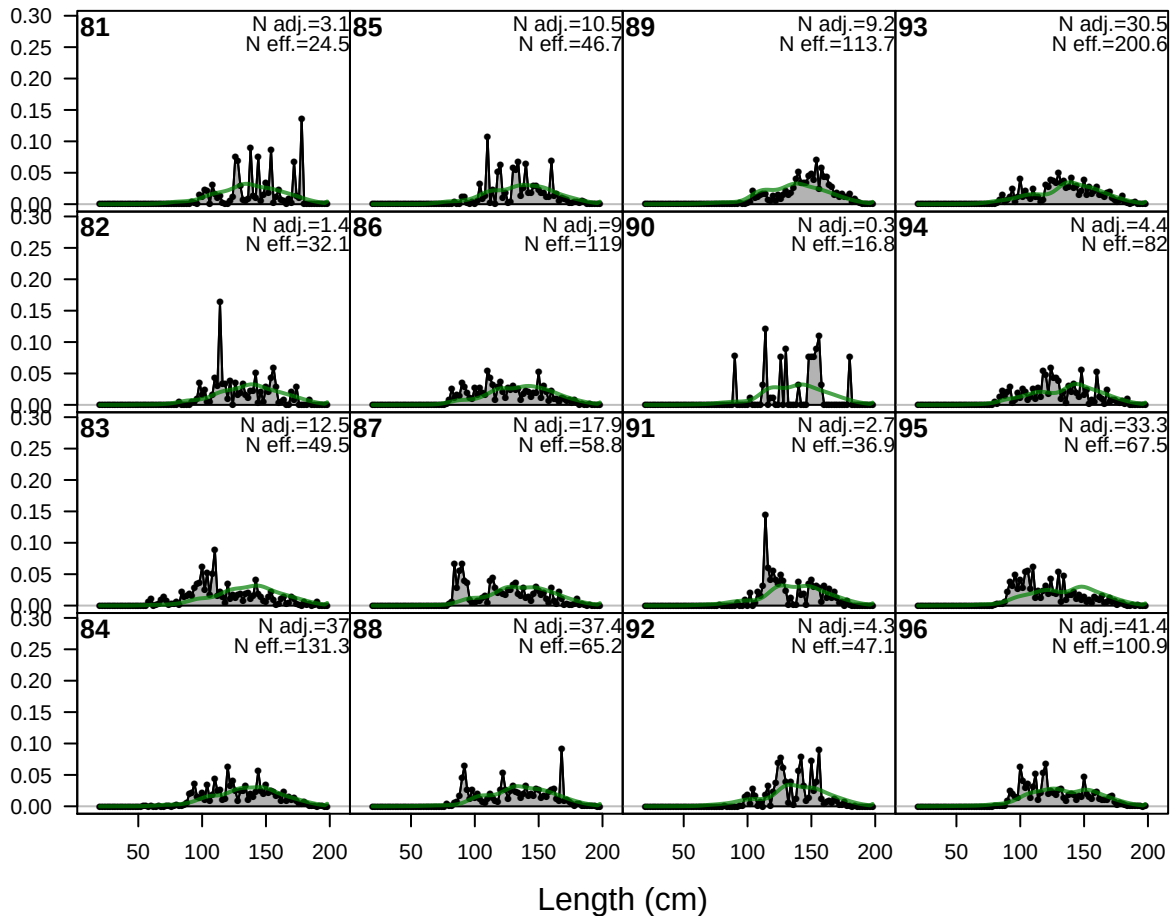


Proportion

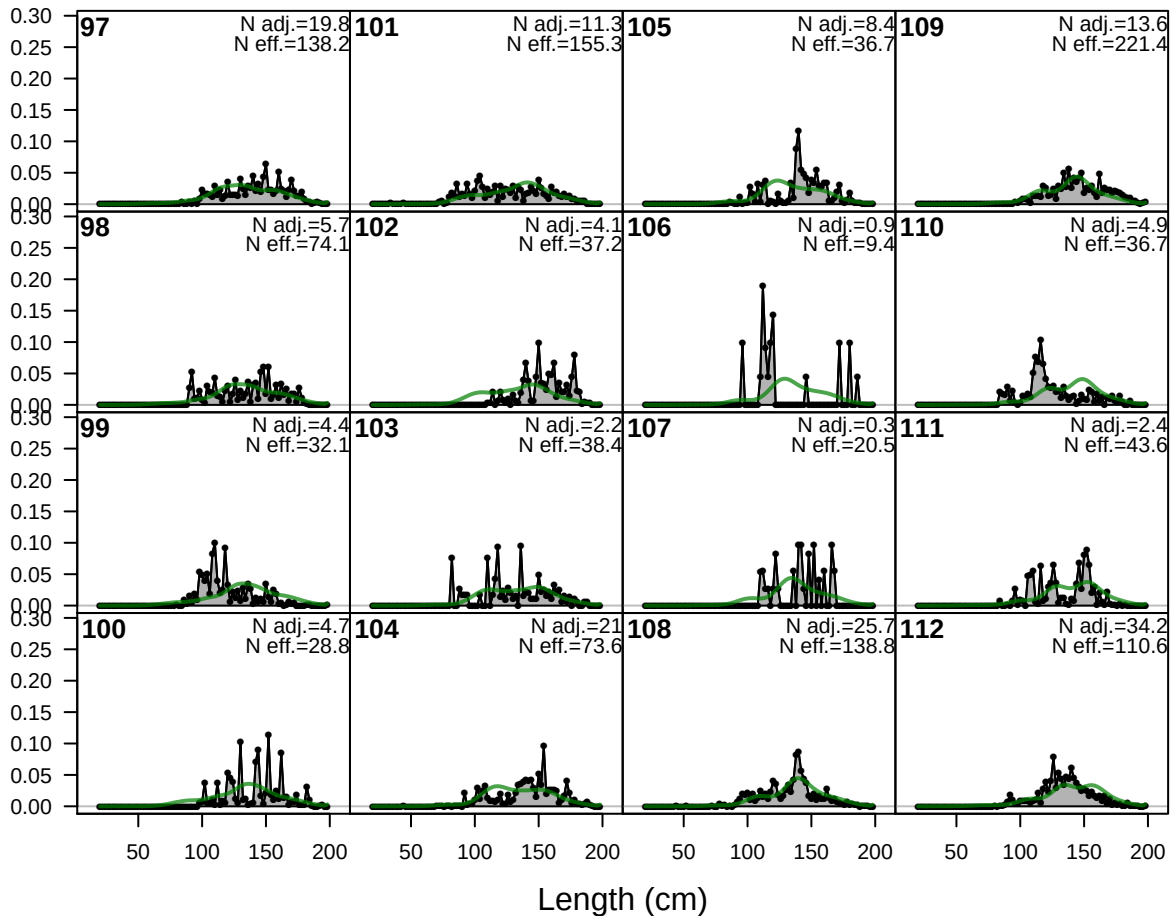


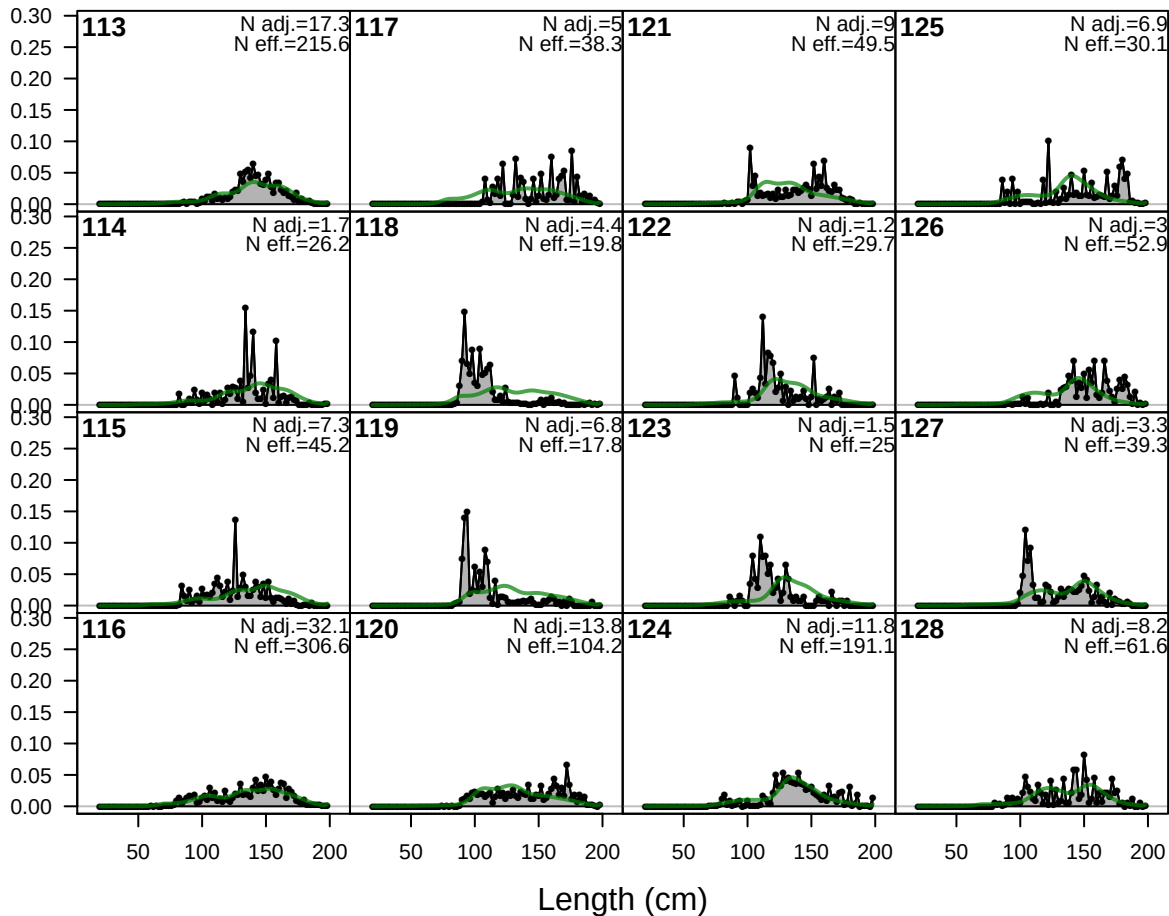


Proportion

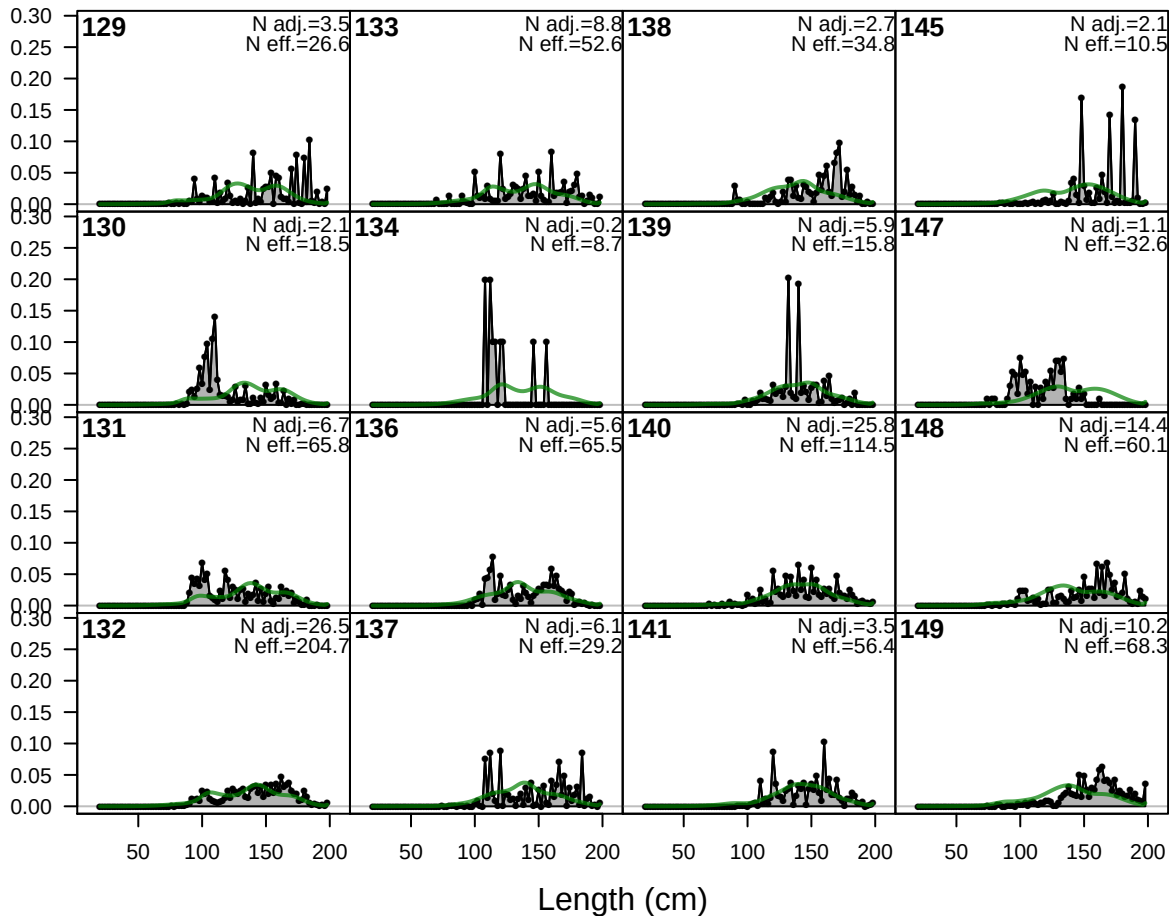


Proportion

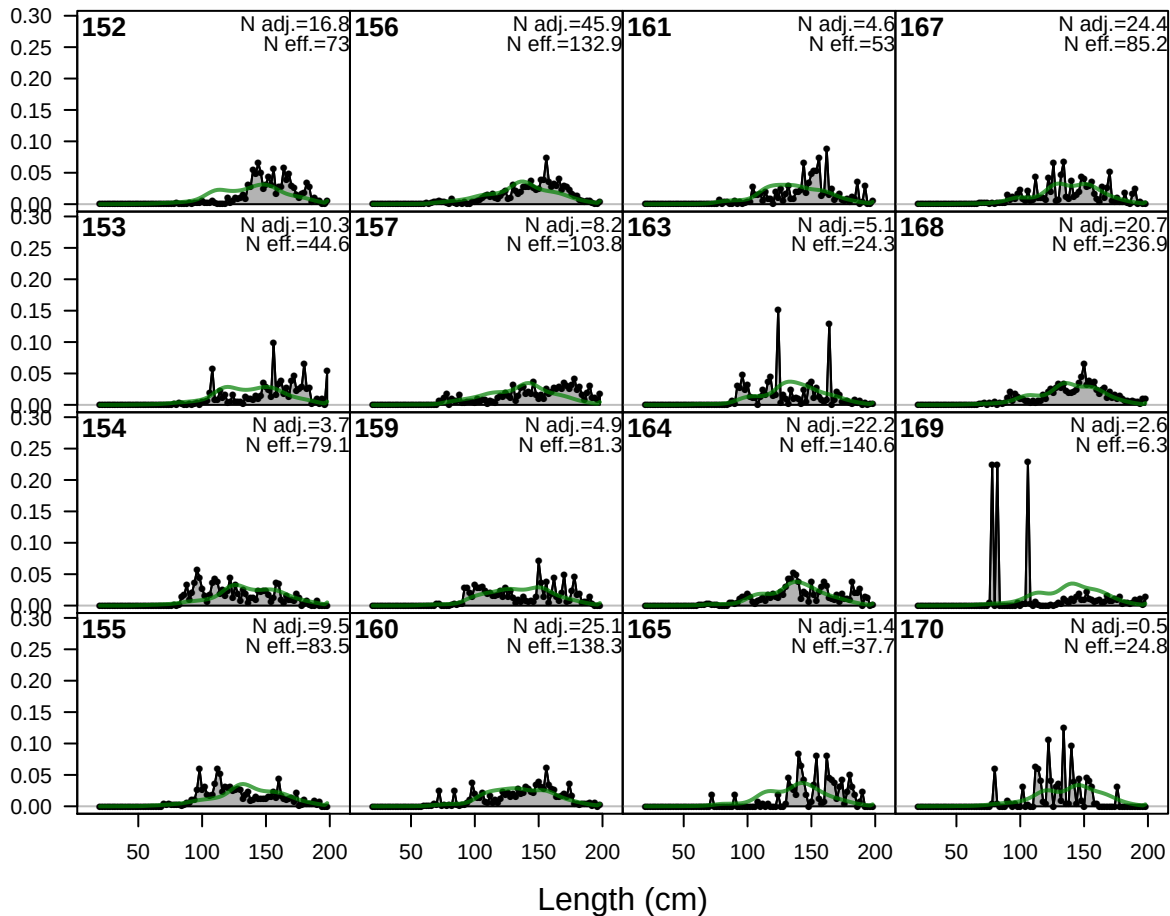




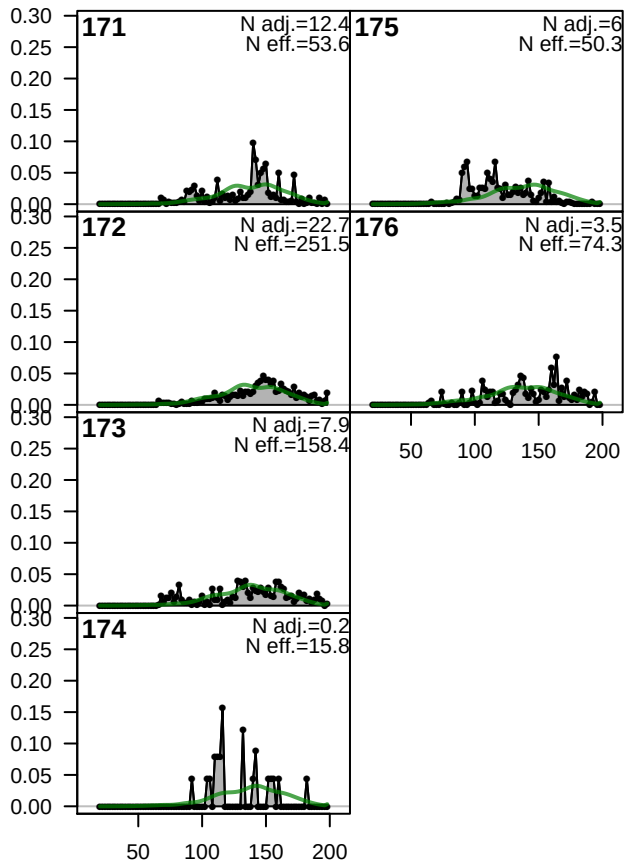
Proportion



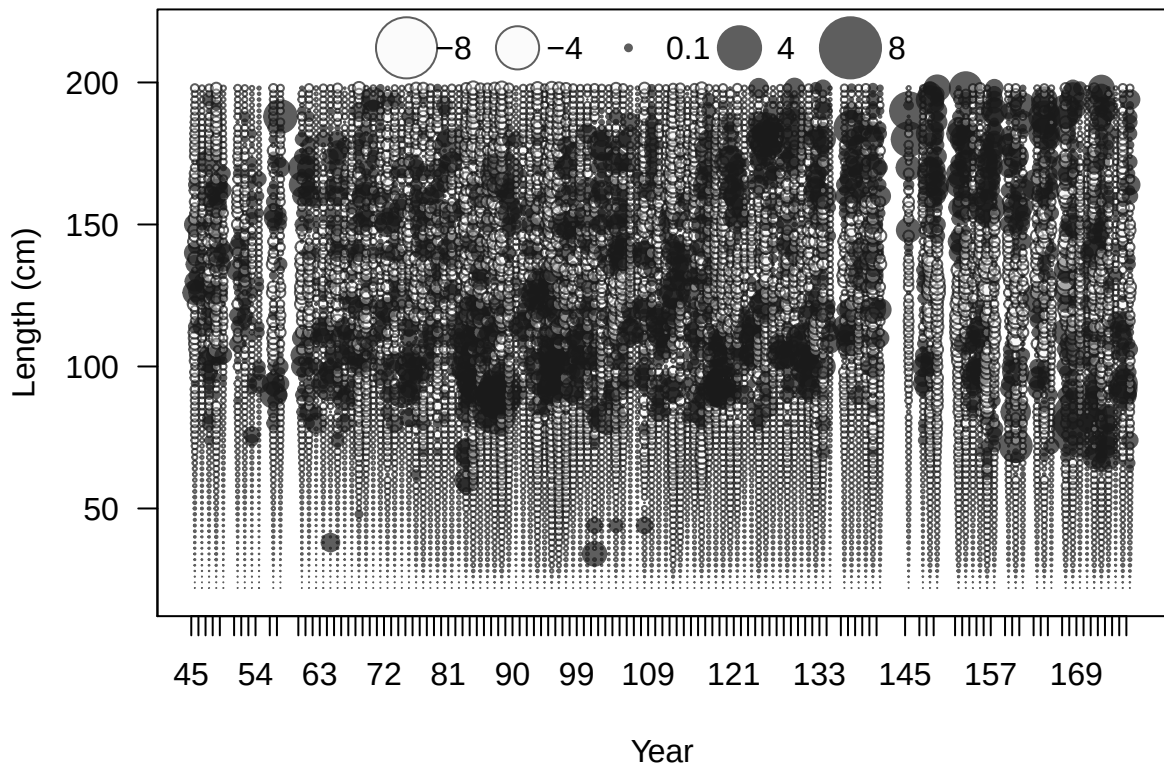
Proportion

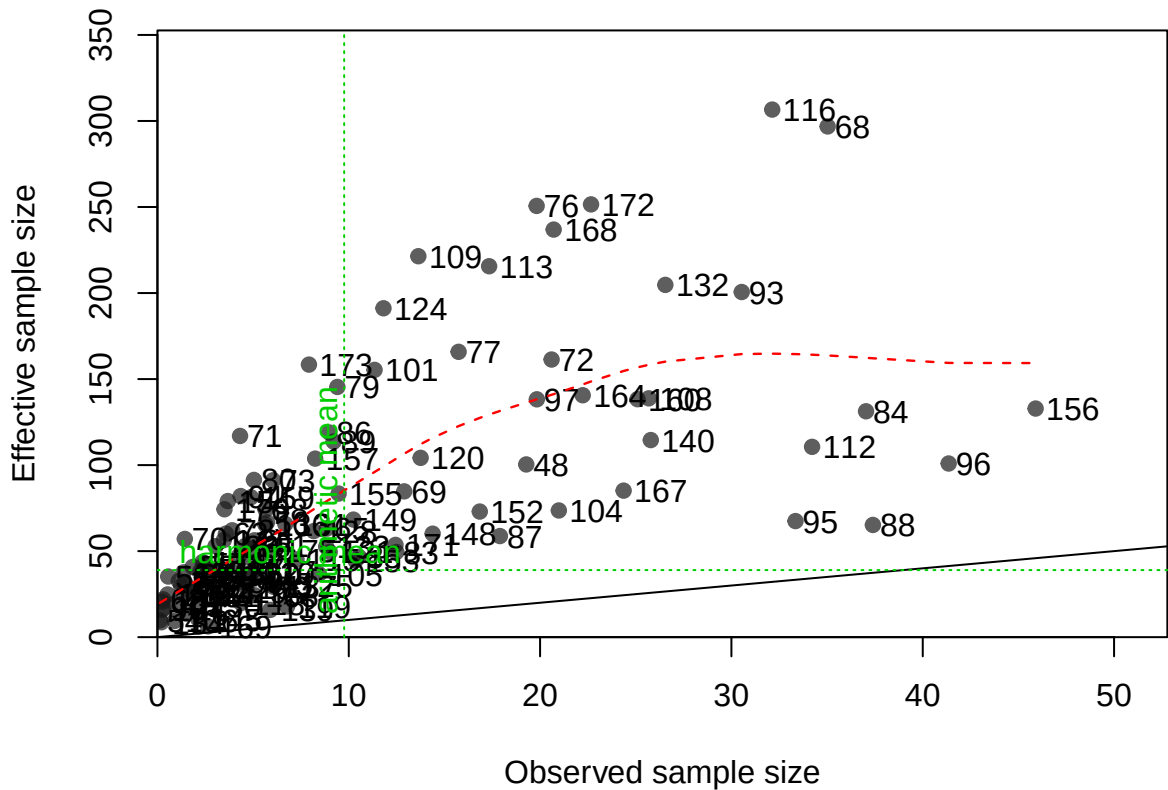


Proportion

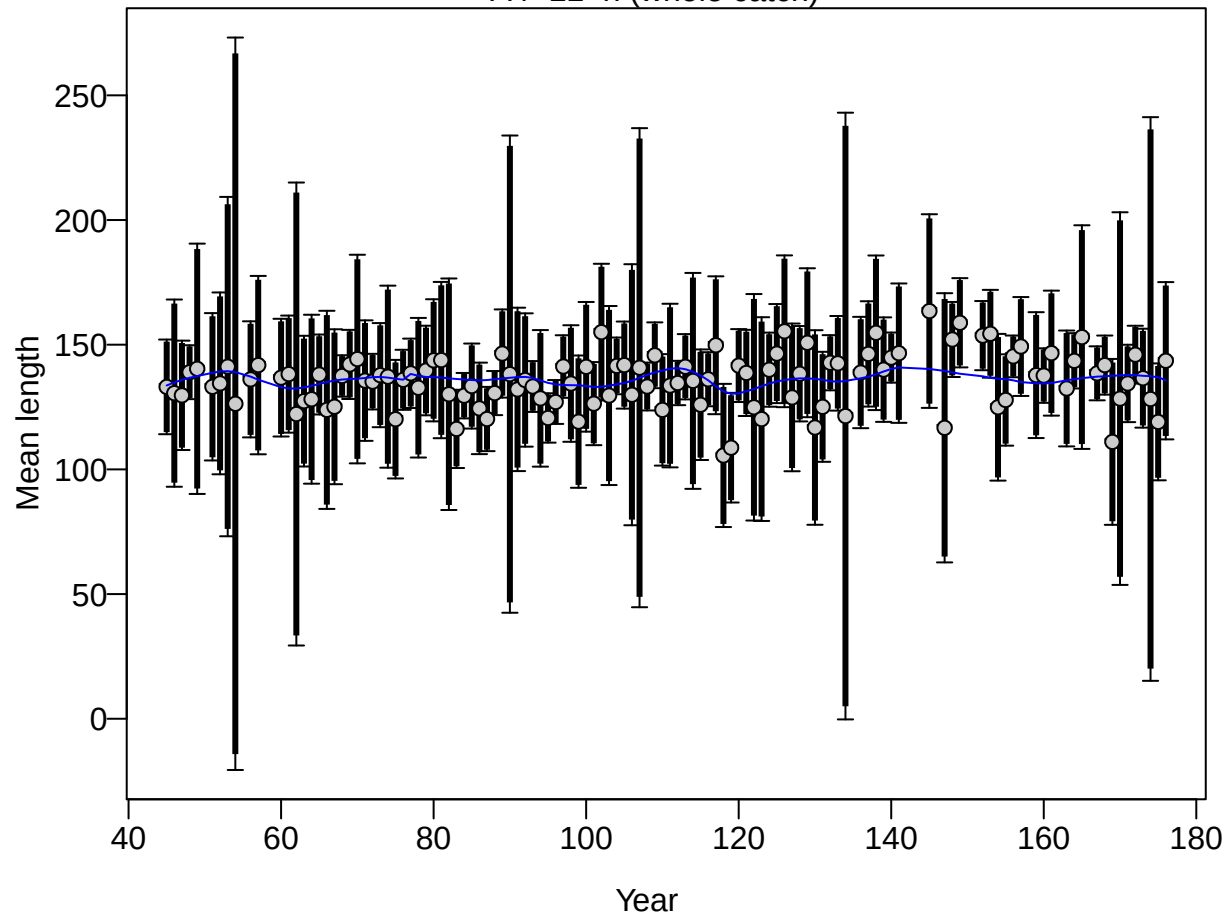


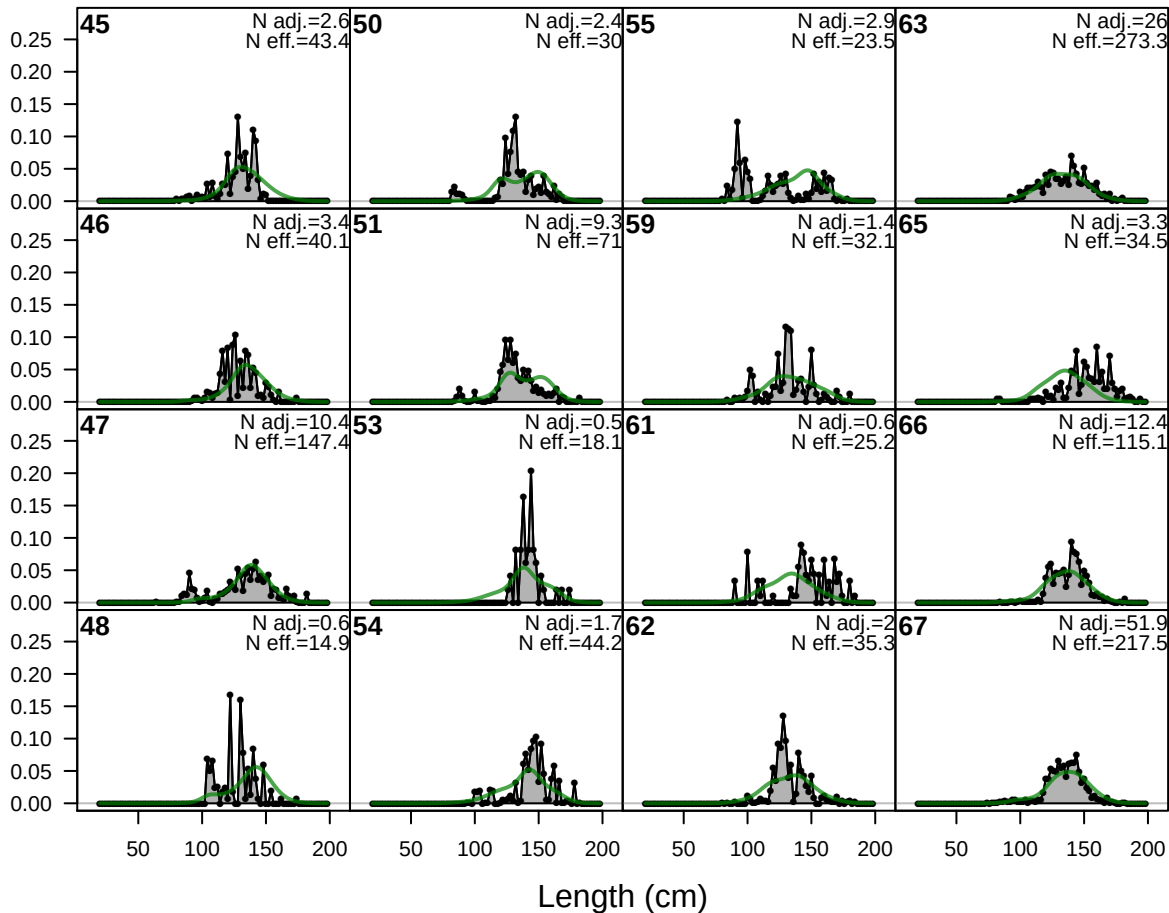
Length (cm)

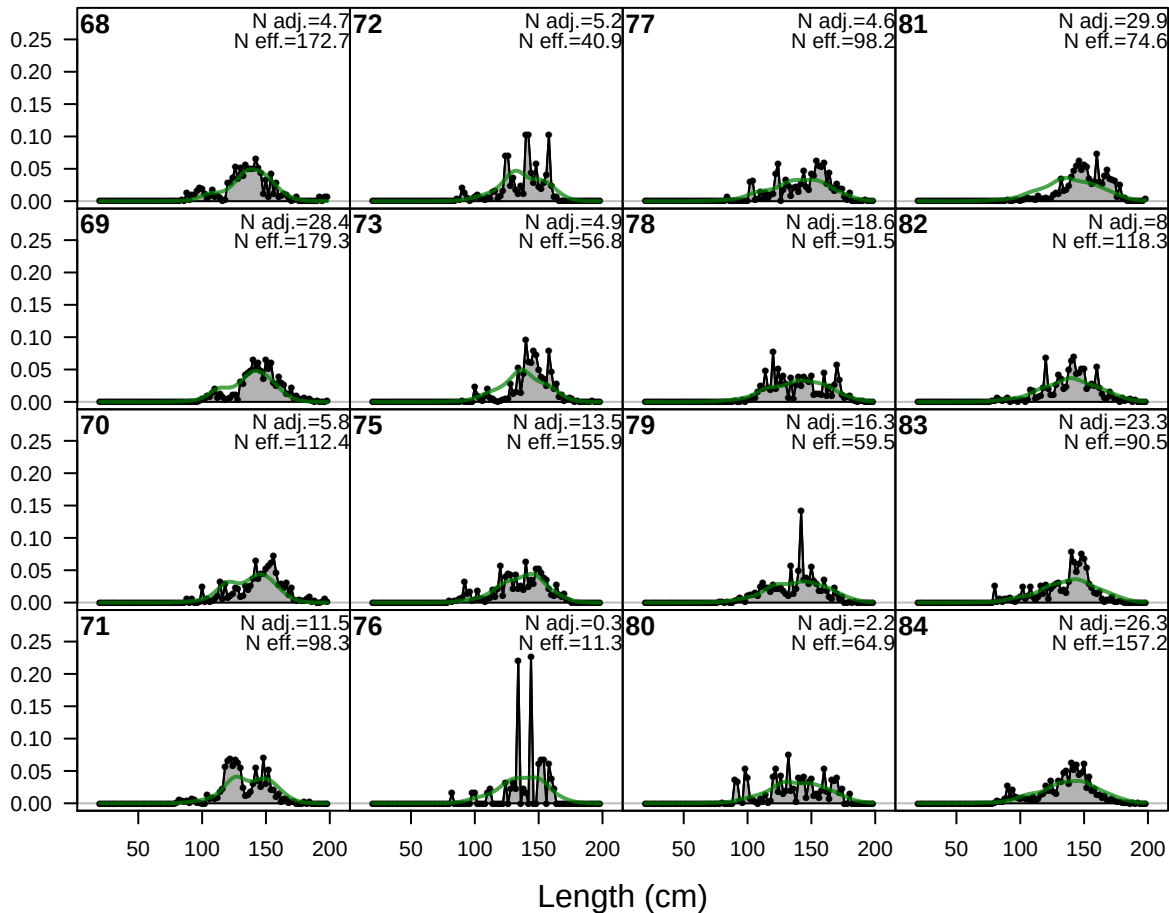


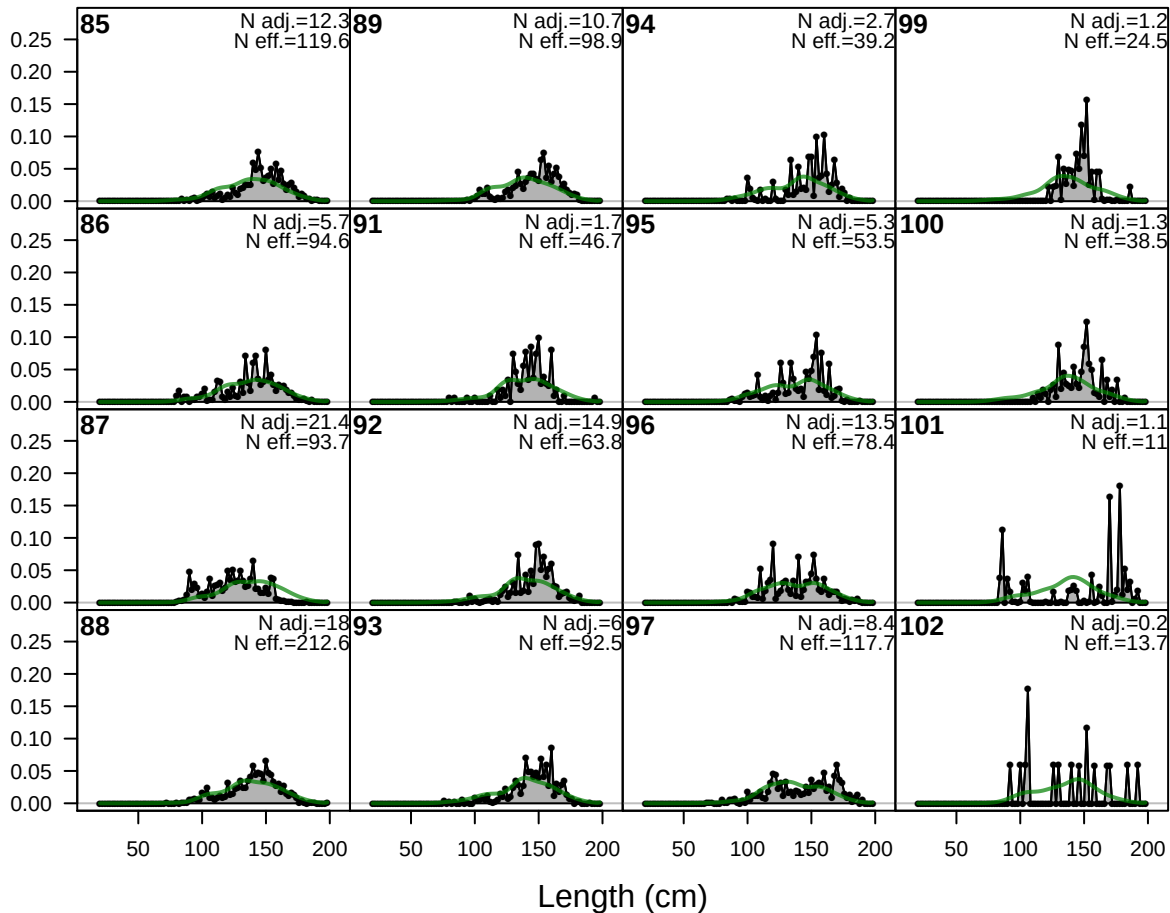


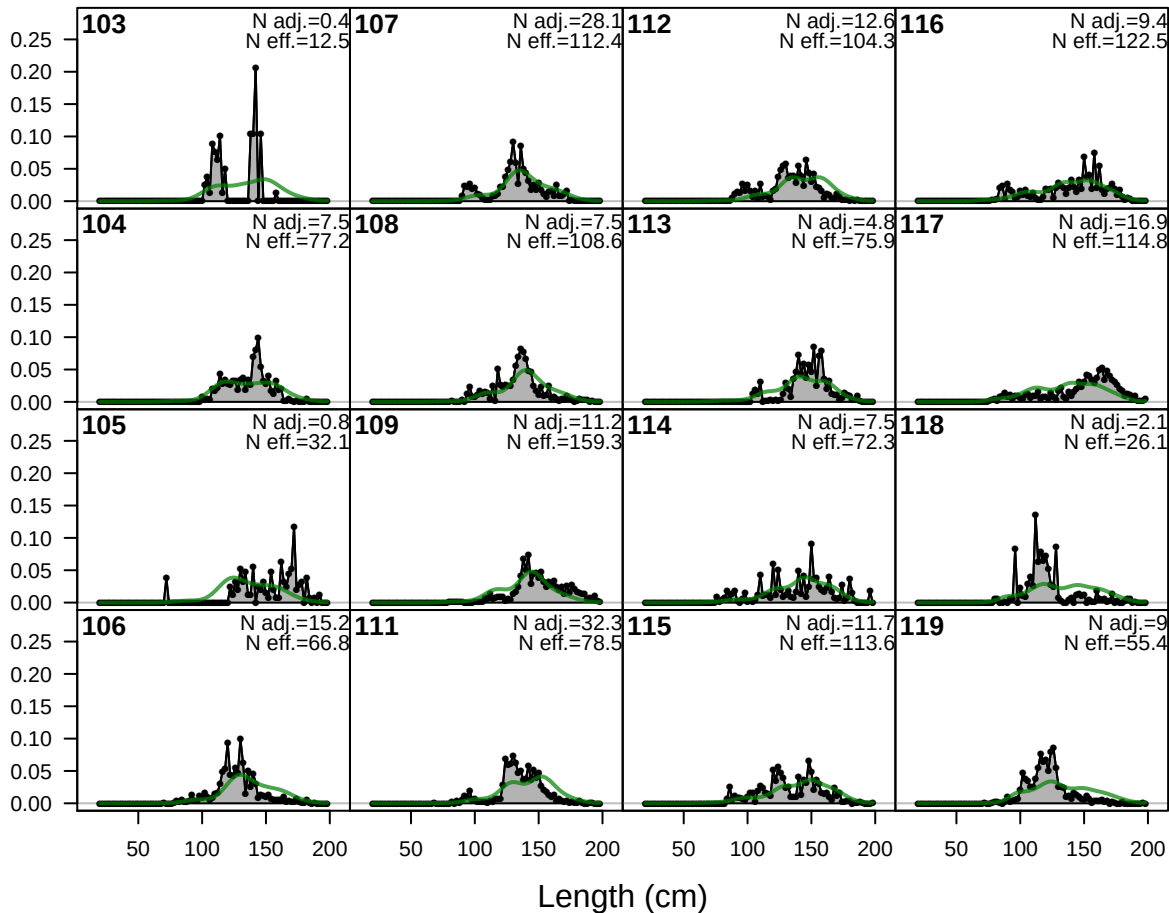
A4-LL-n (whole catch)

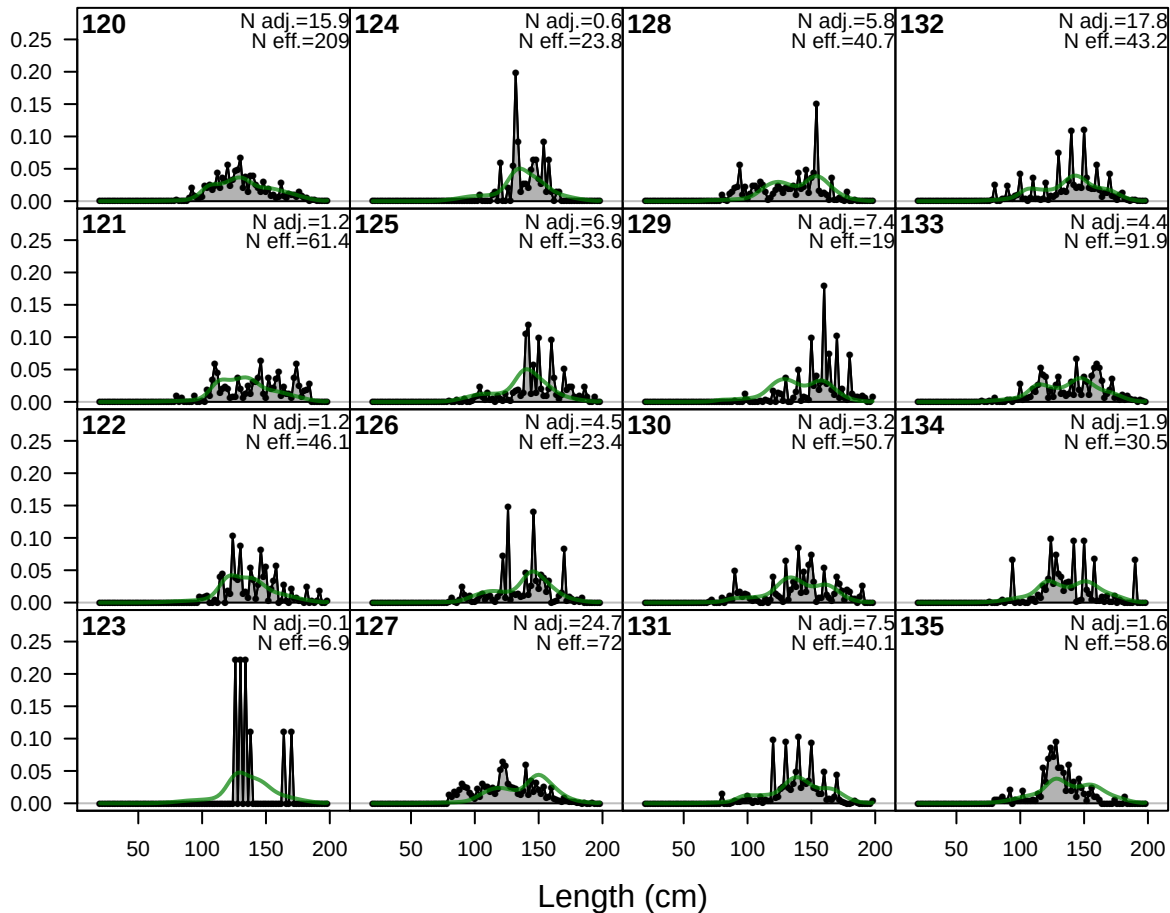


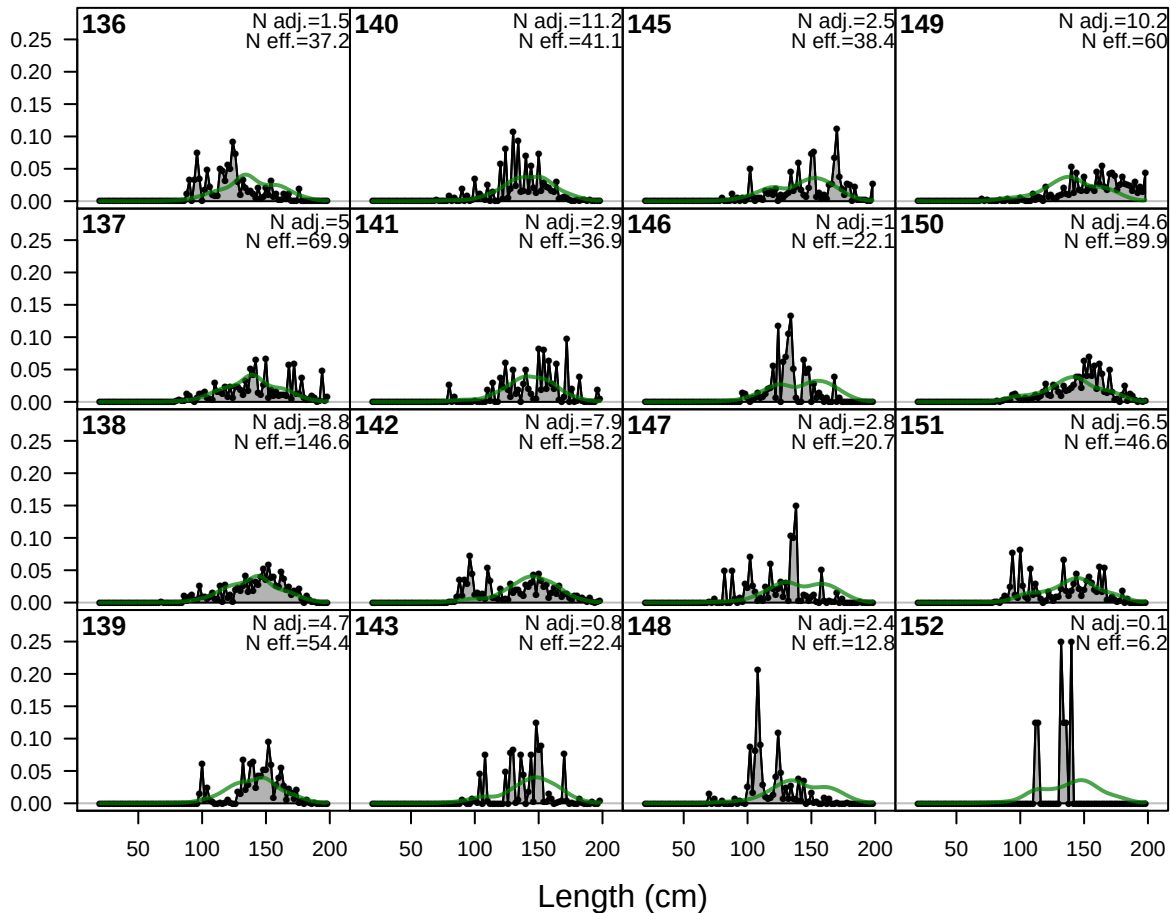




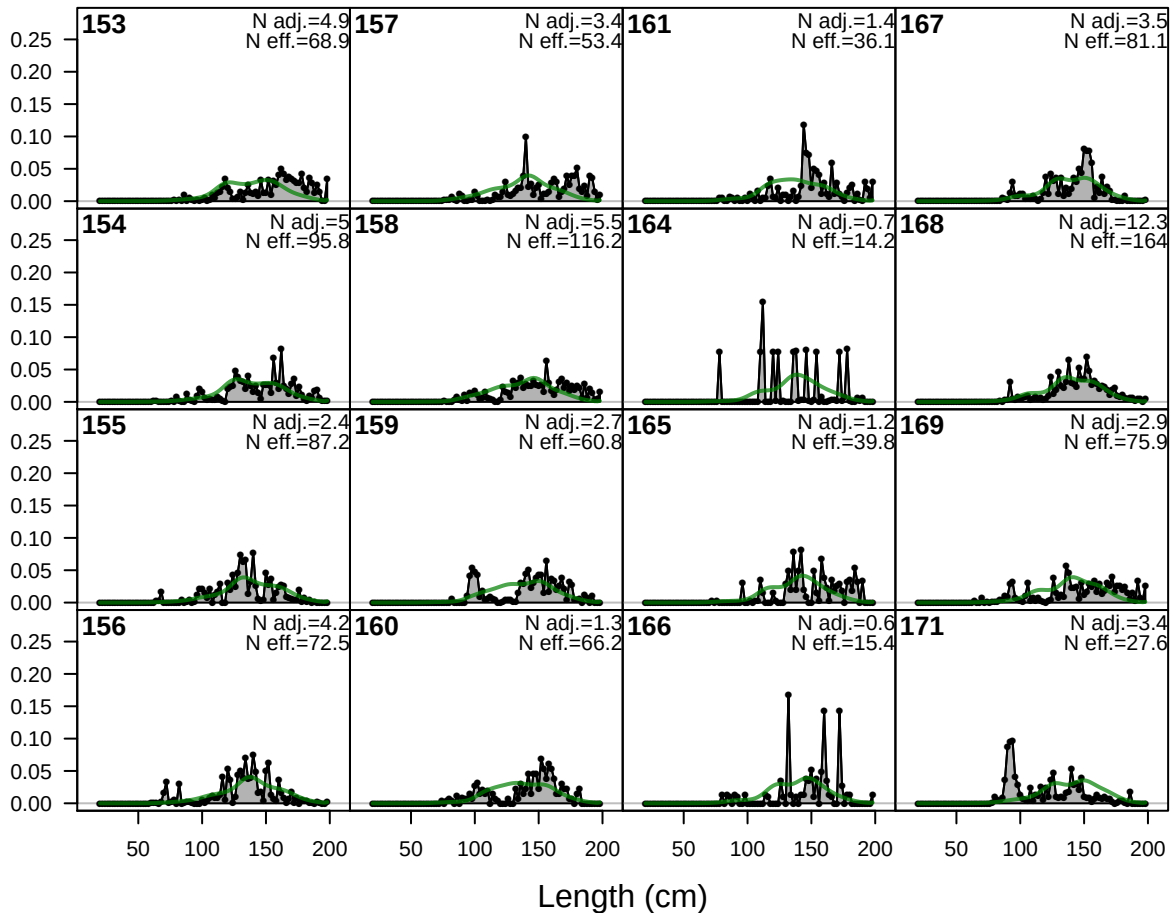




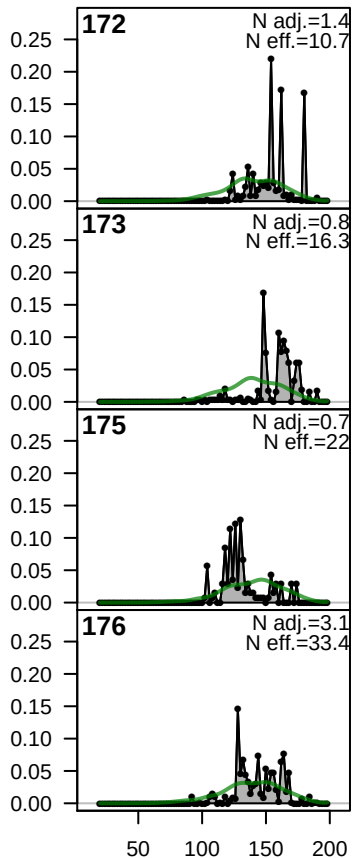




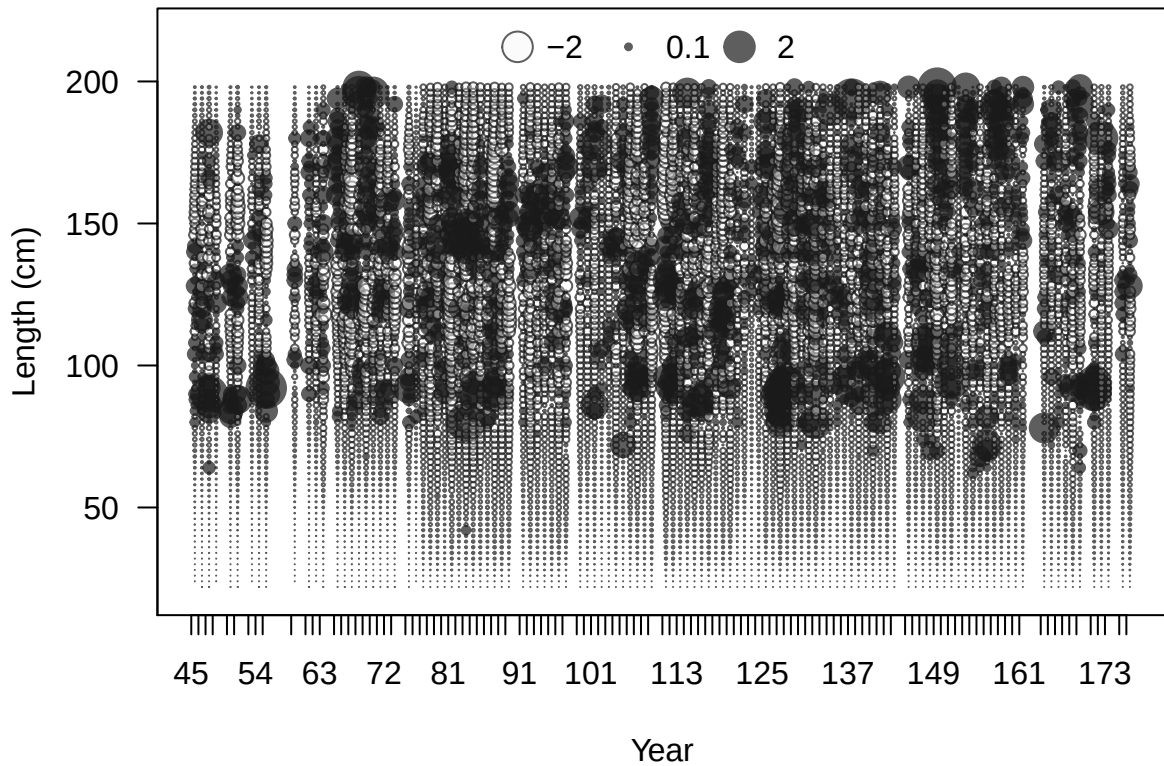
Proportion



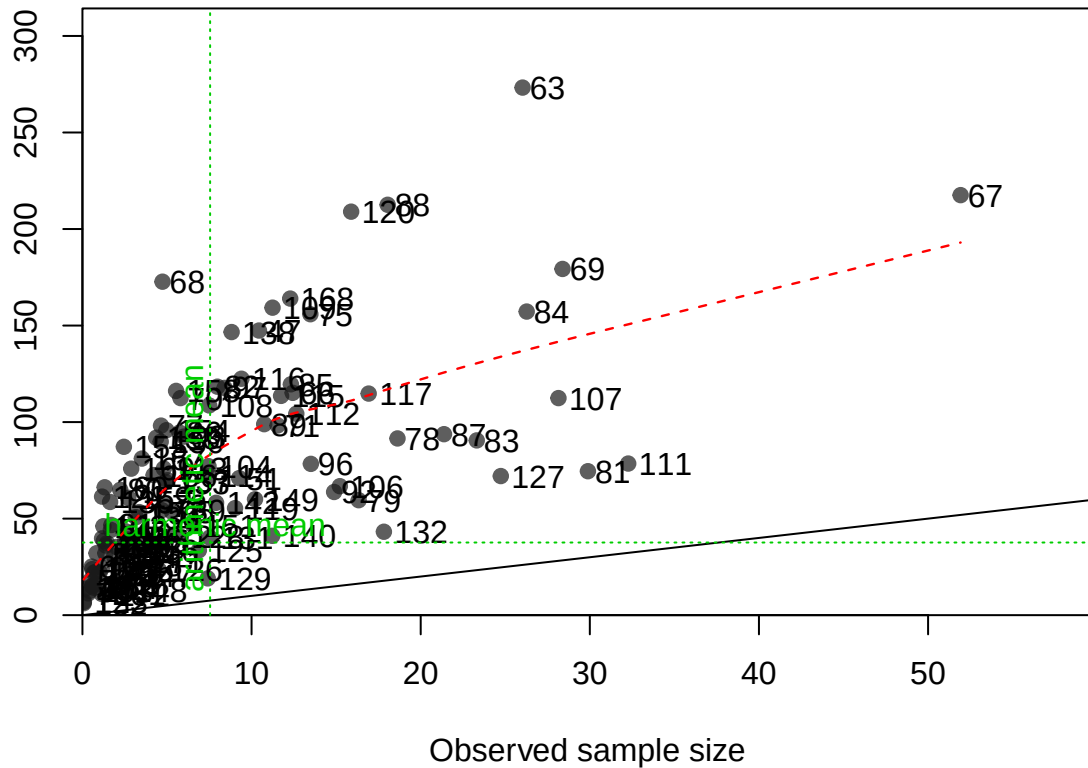
Proportion



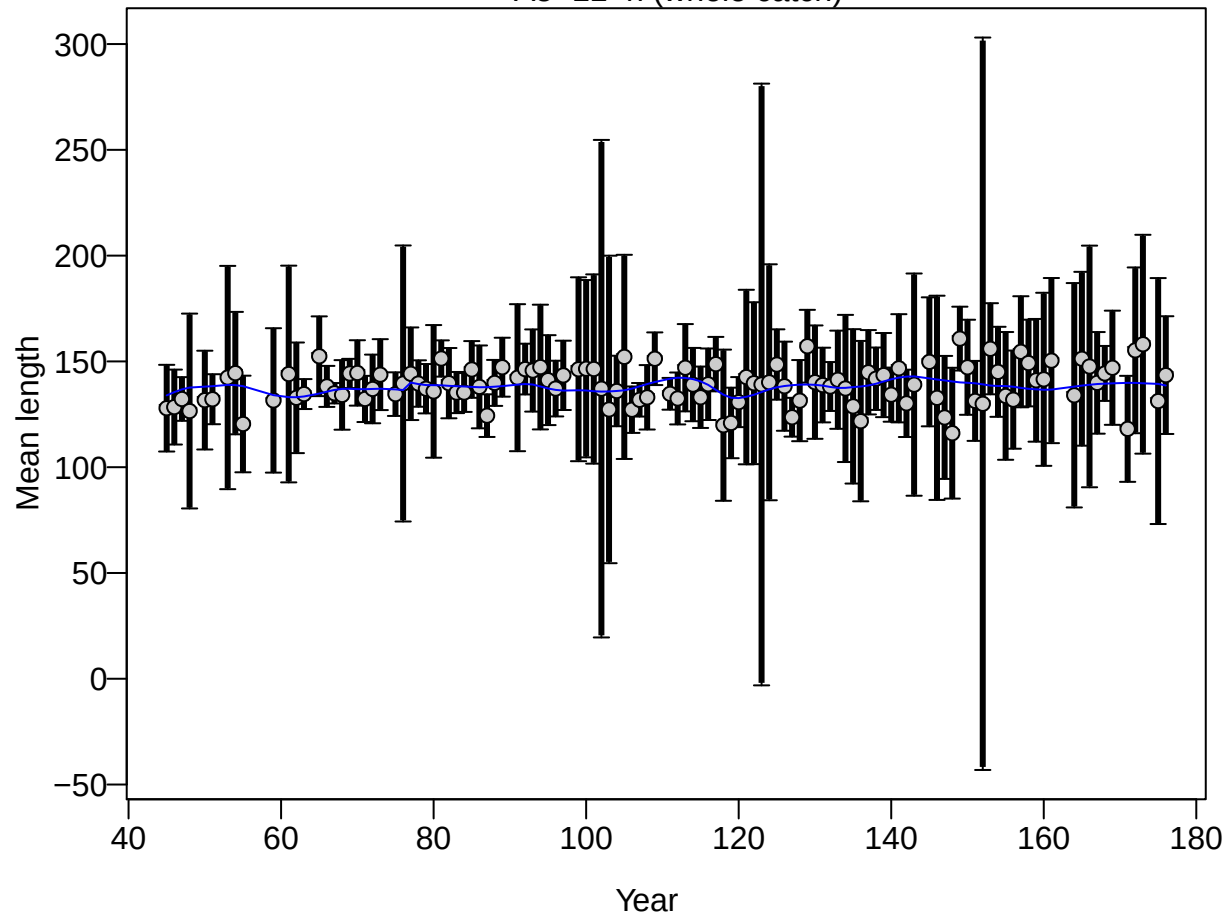
Length (cm)

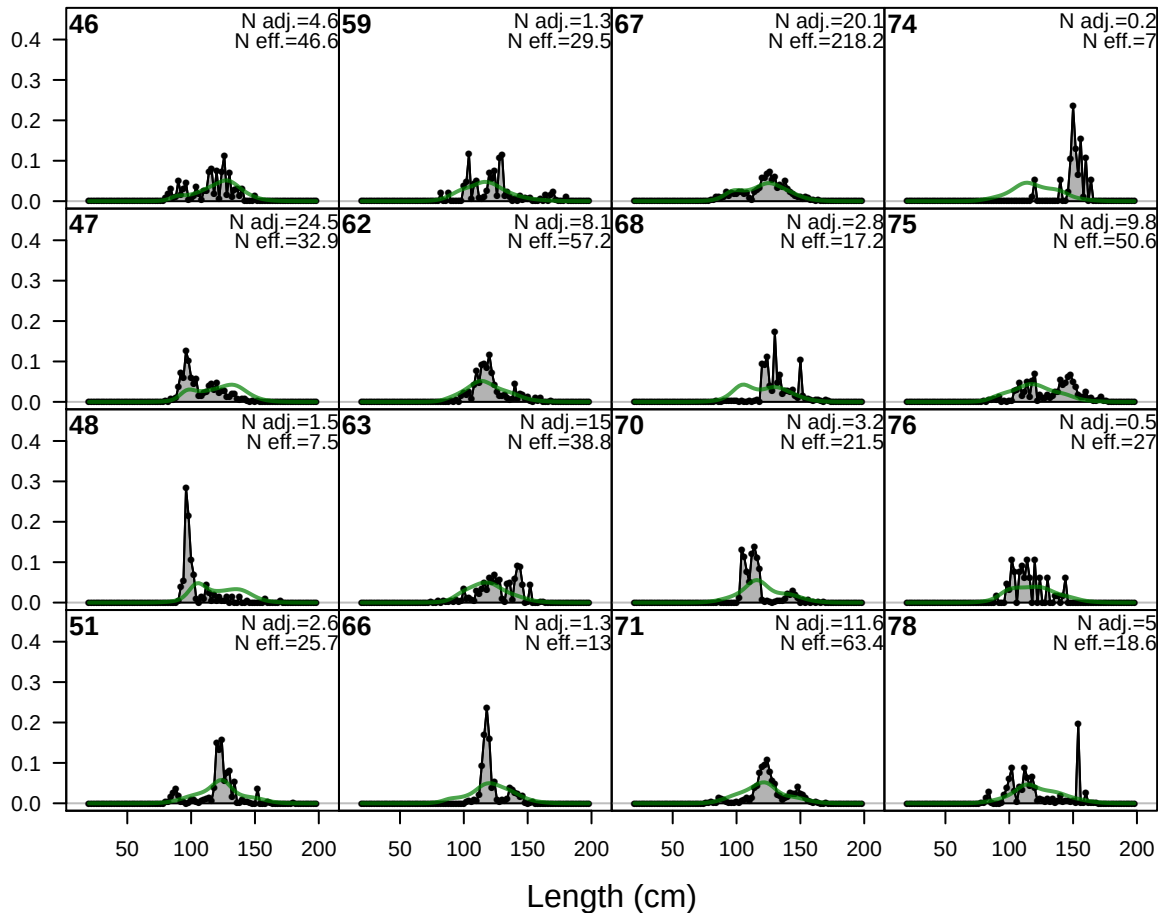


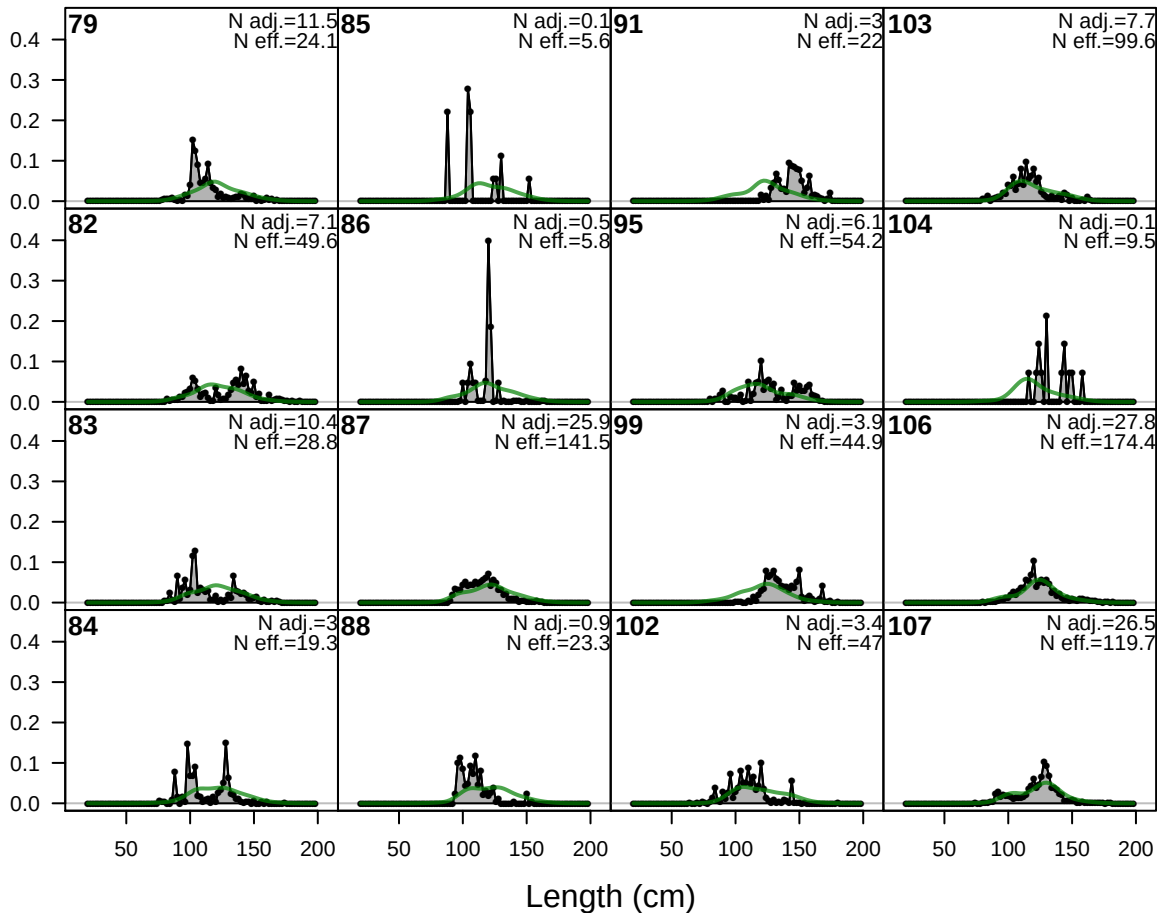
Effective sample size

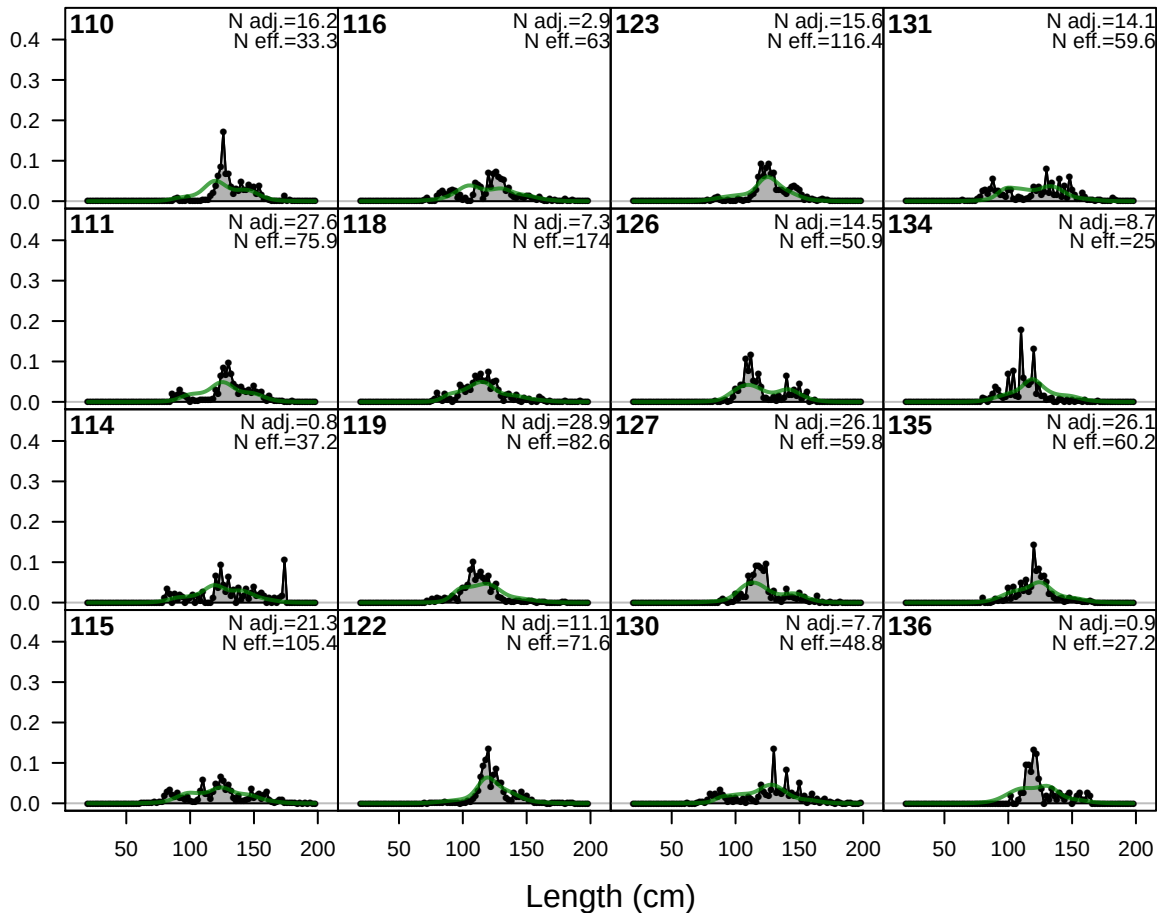


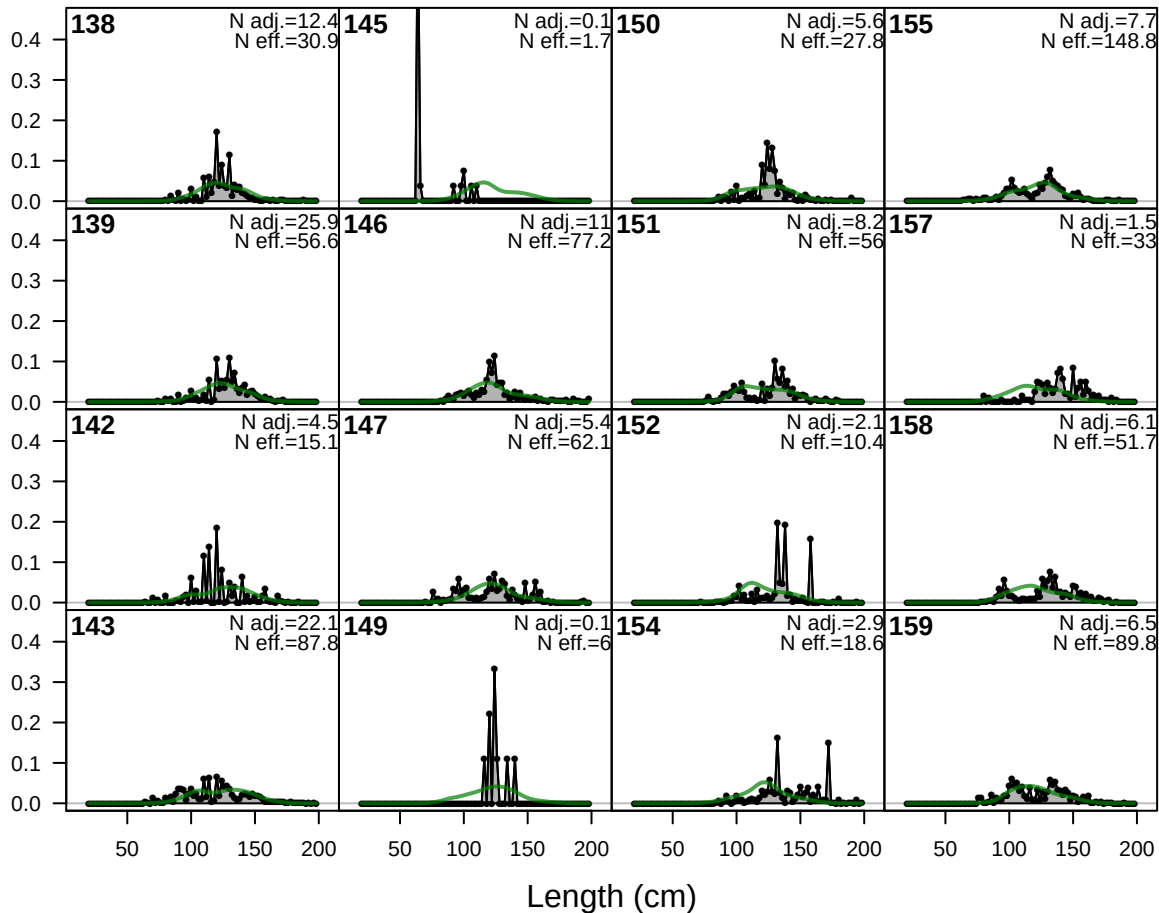
A5-LL-n (whole catch)



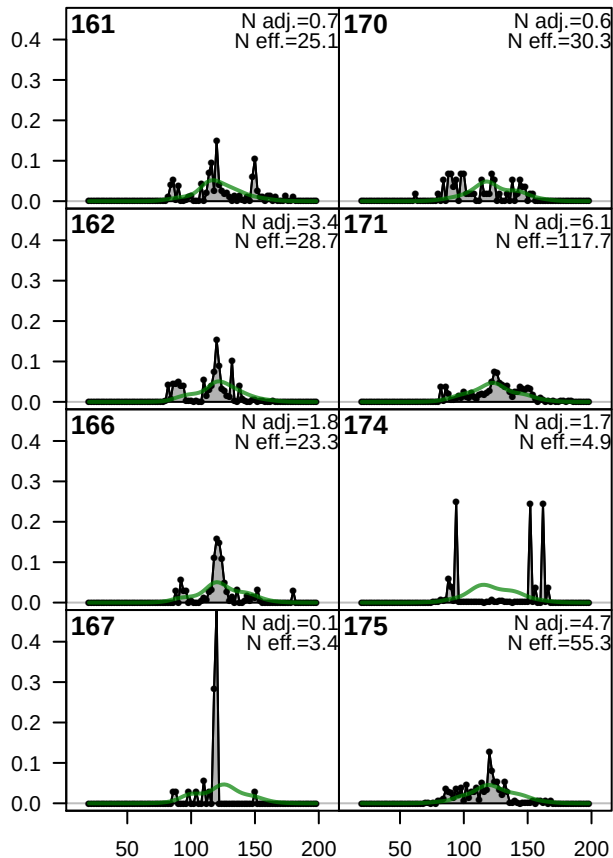




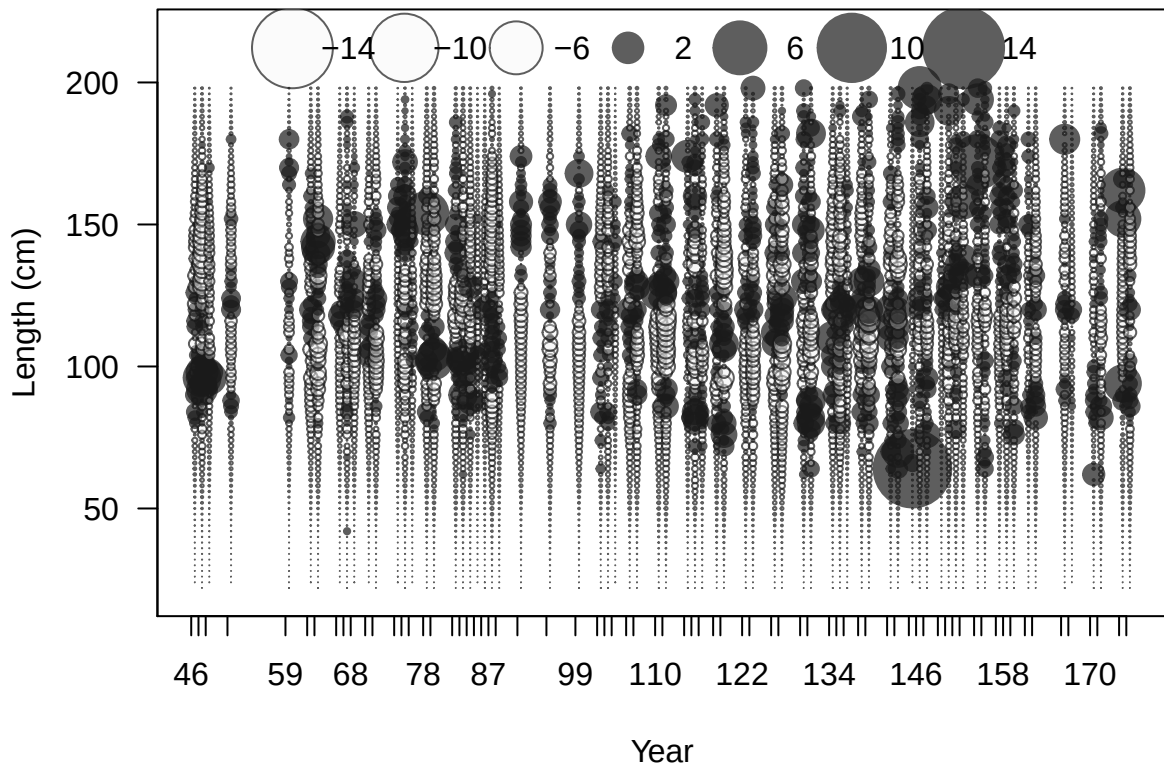


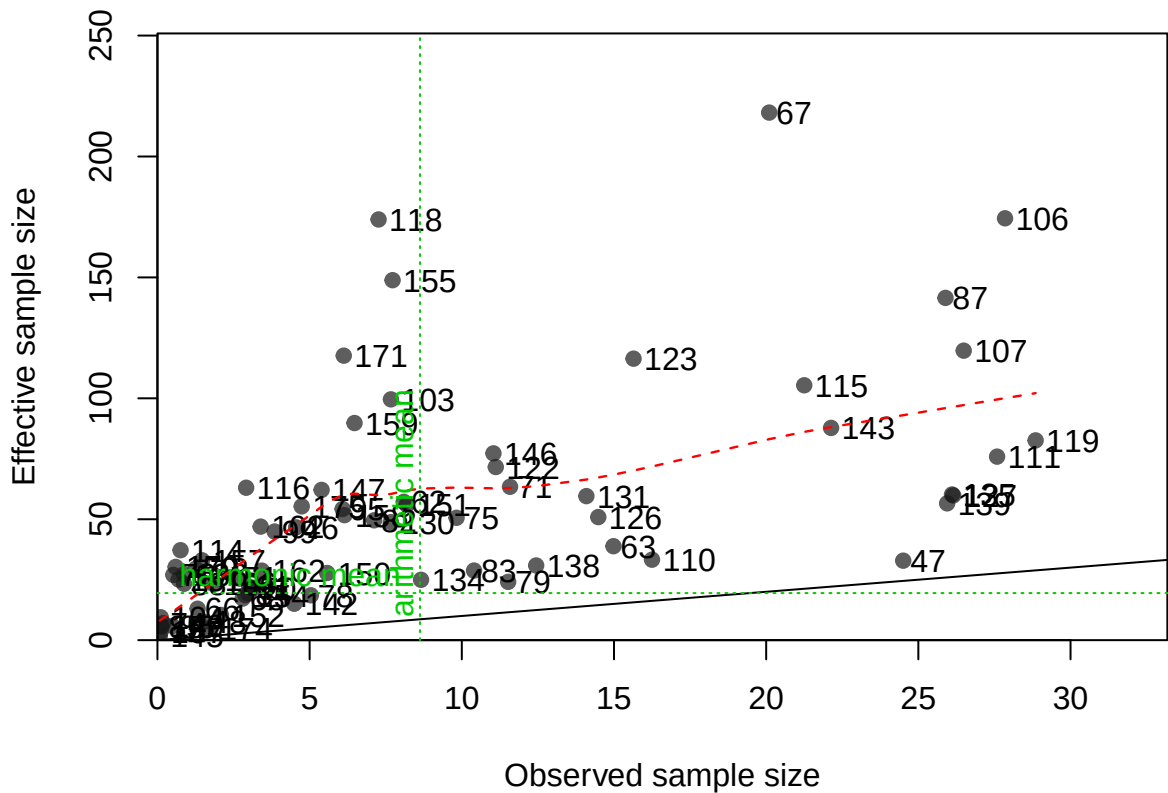


Proportion

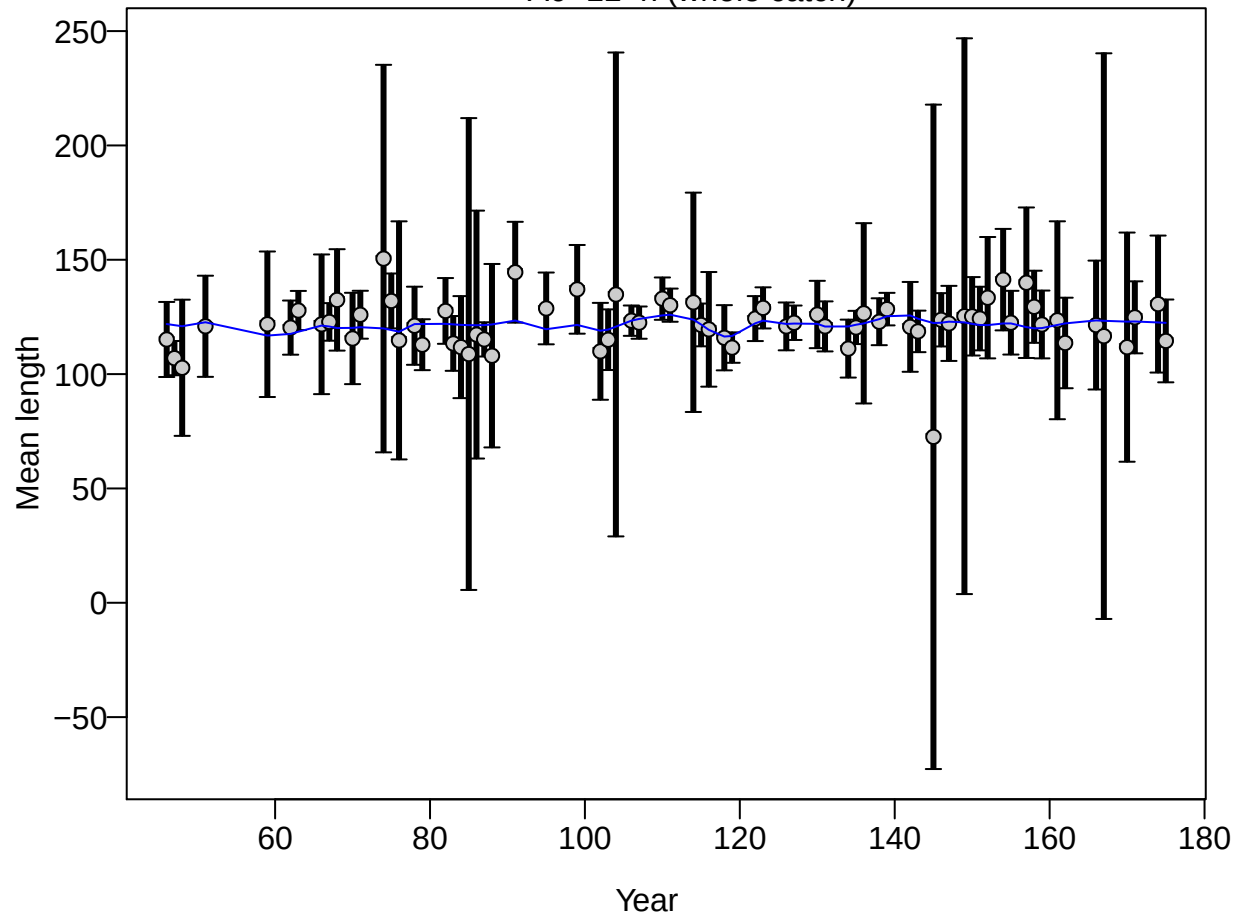


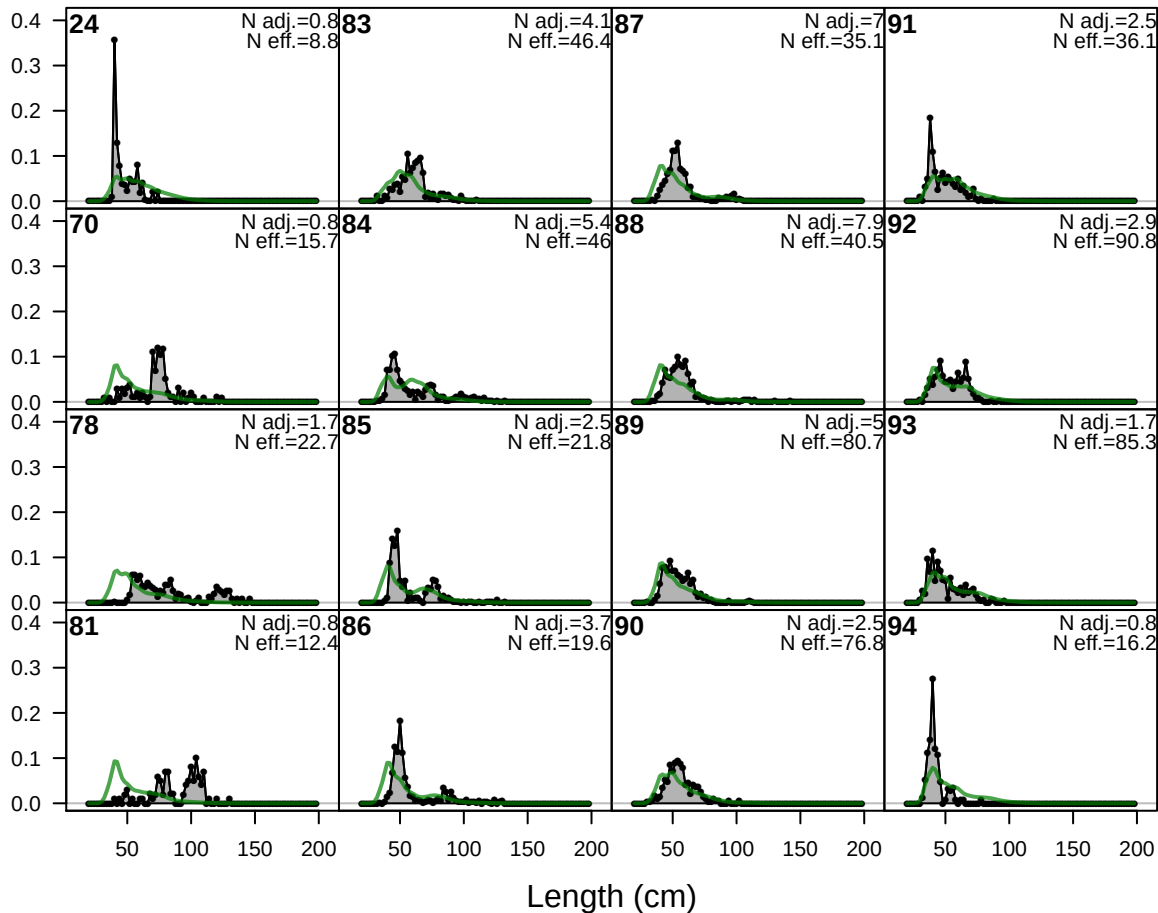
Length (cm)

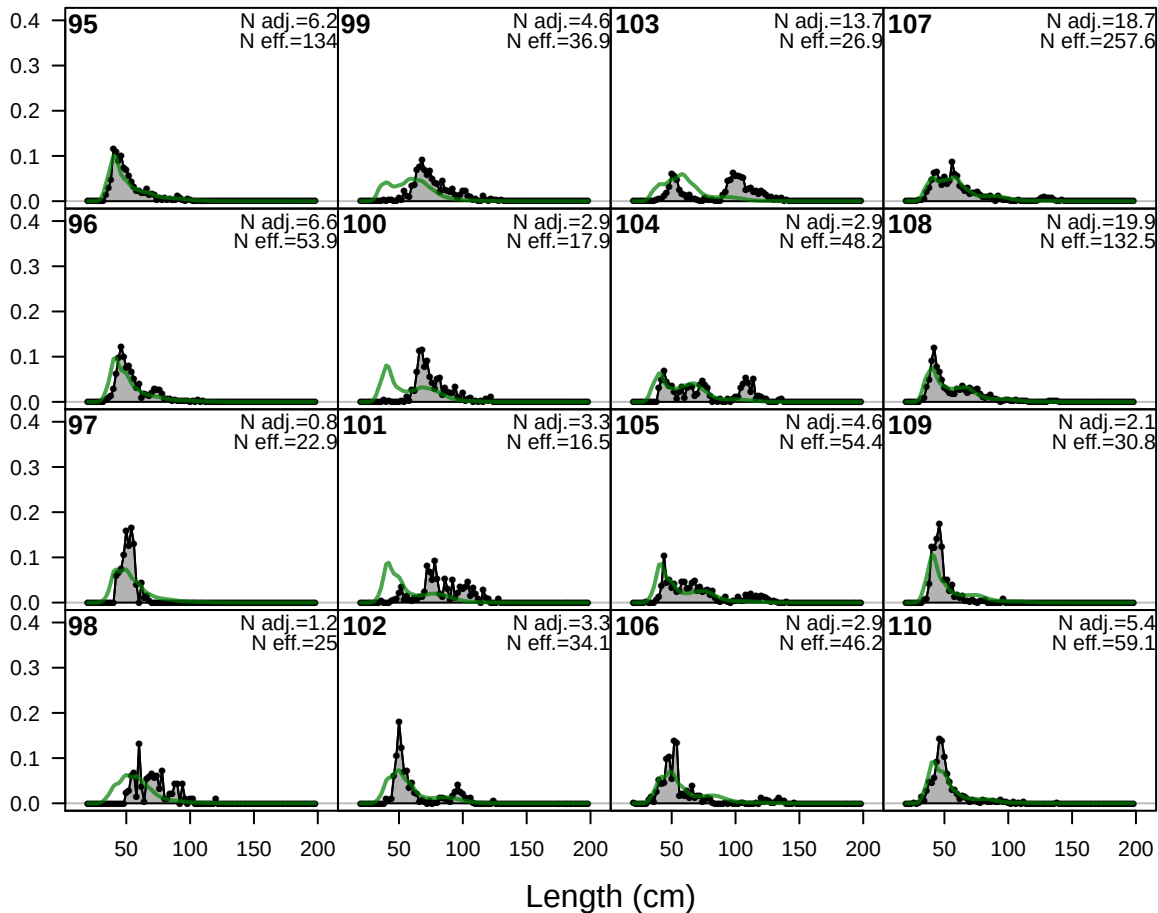


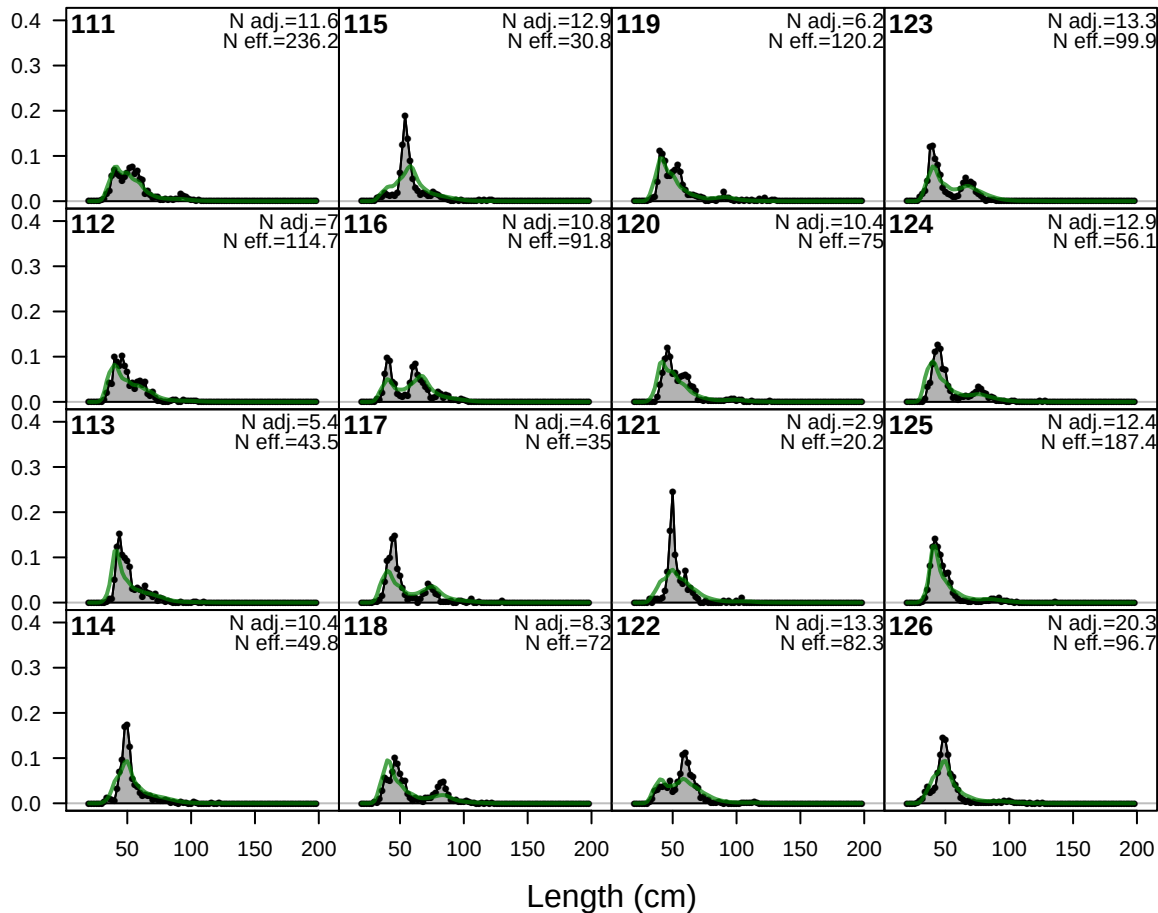


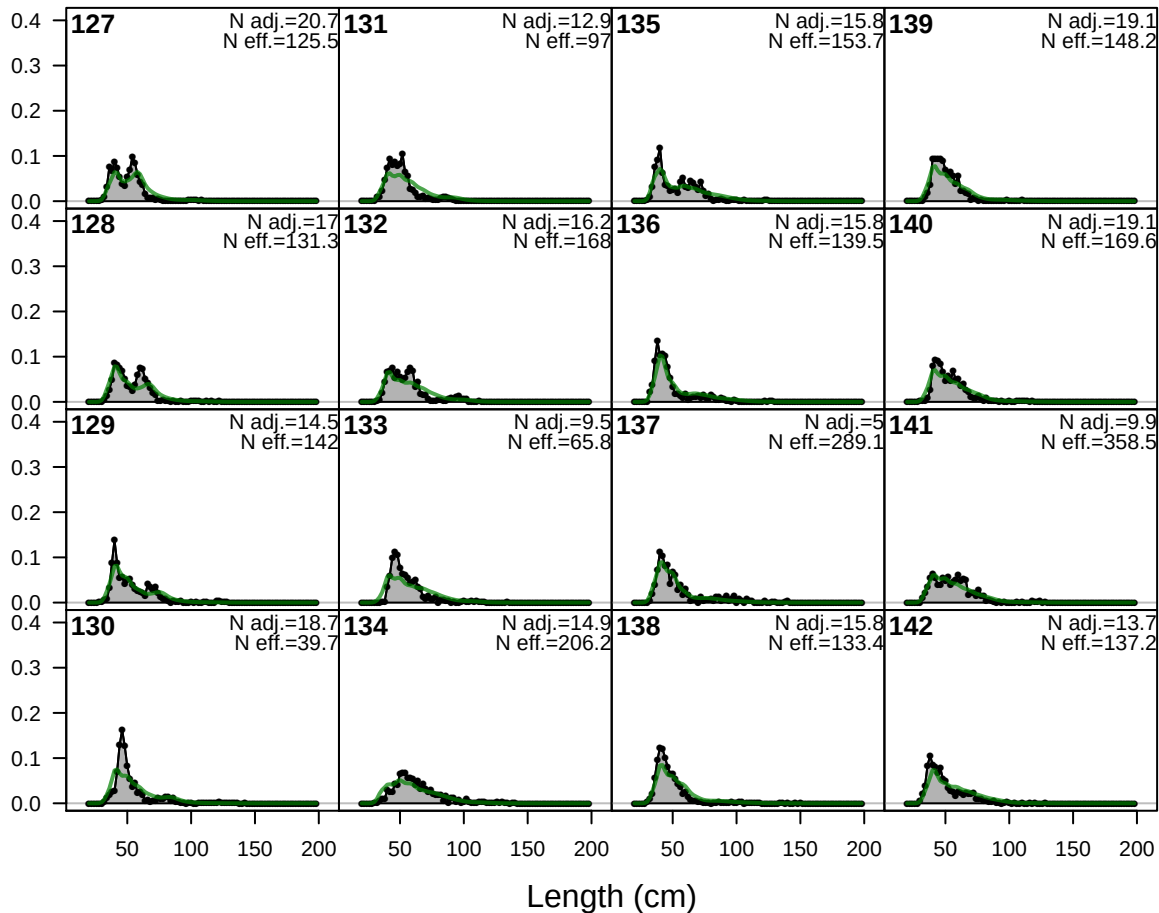
A6-LL-n (whole catch)

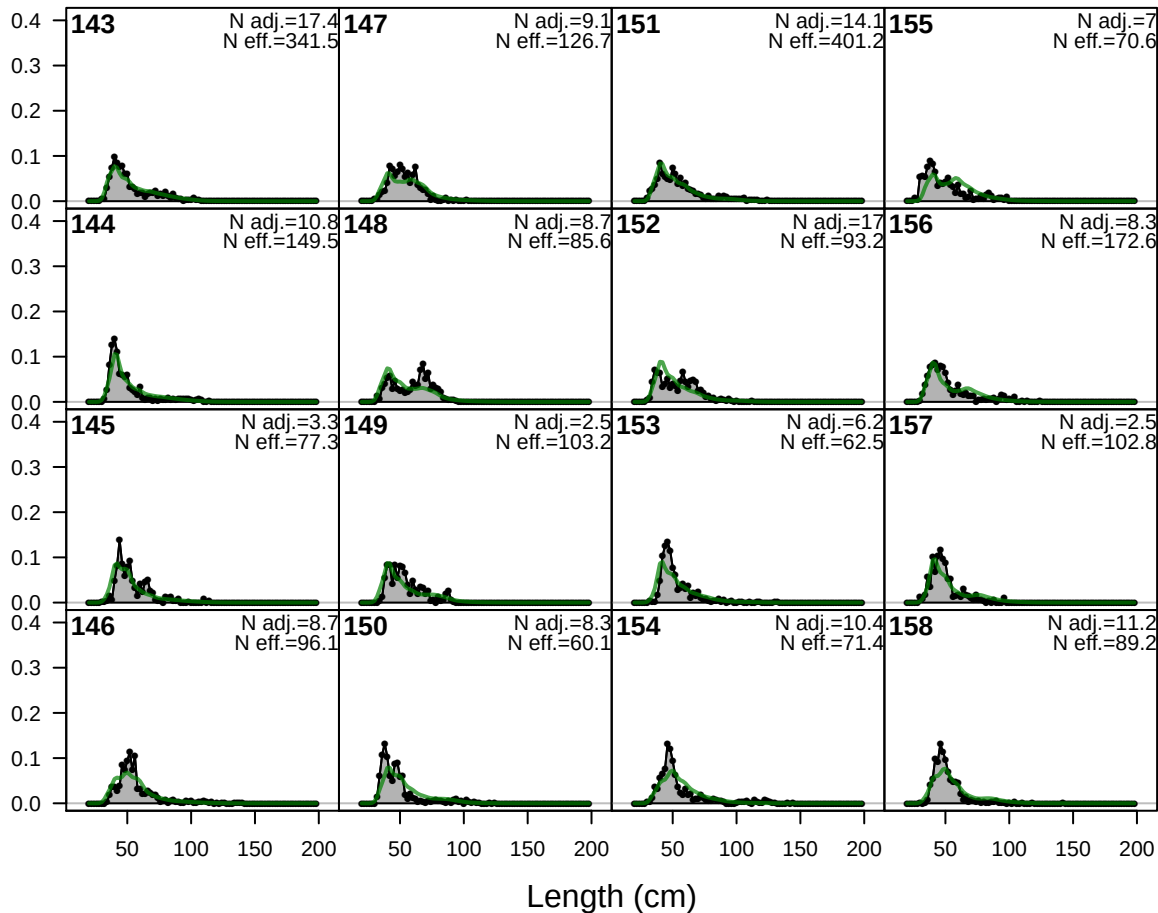


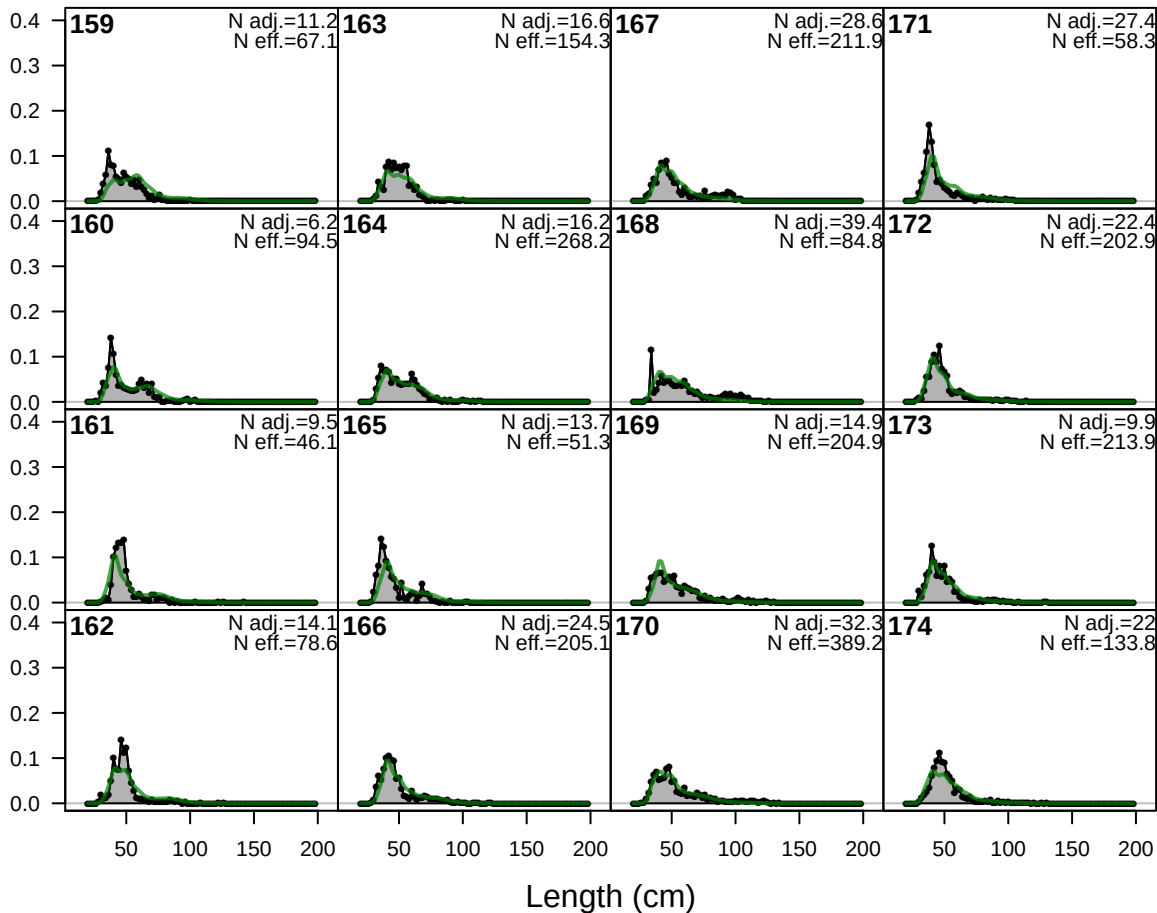




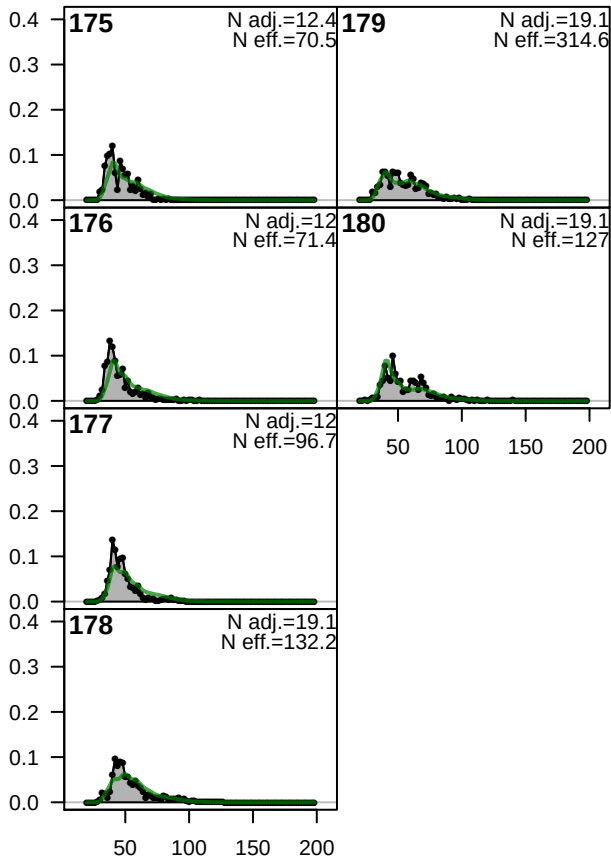




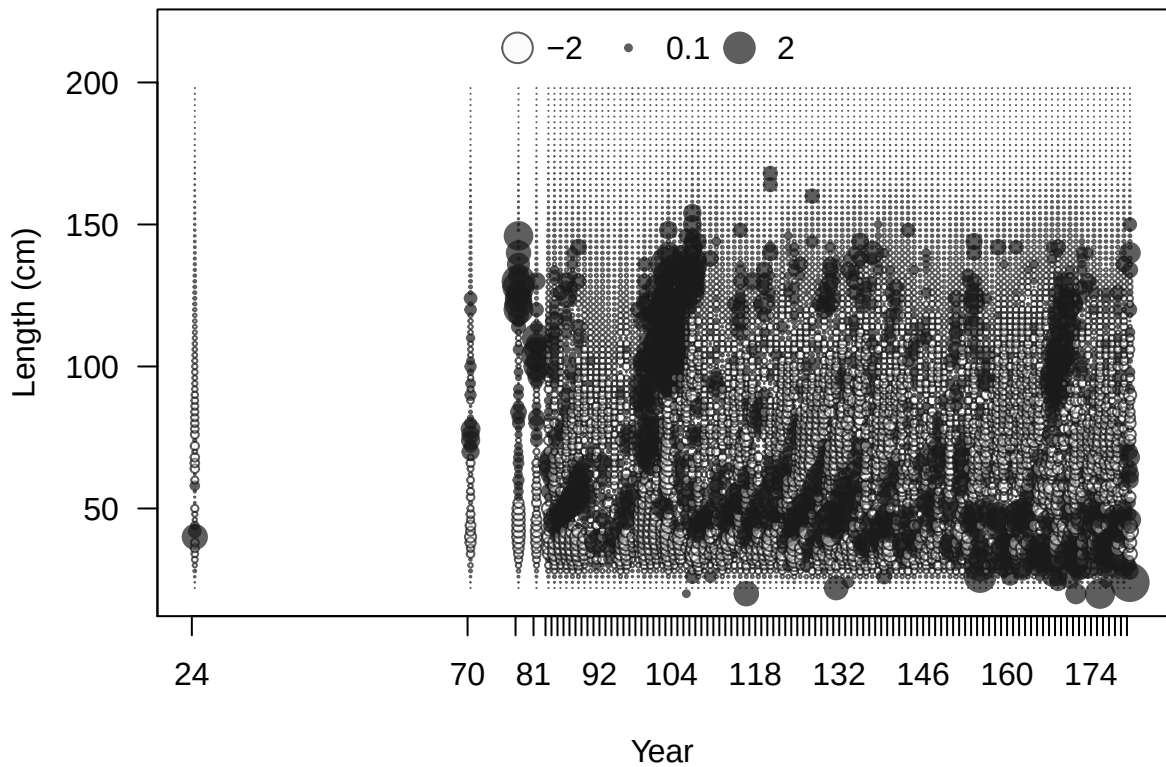


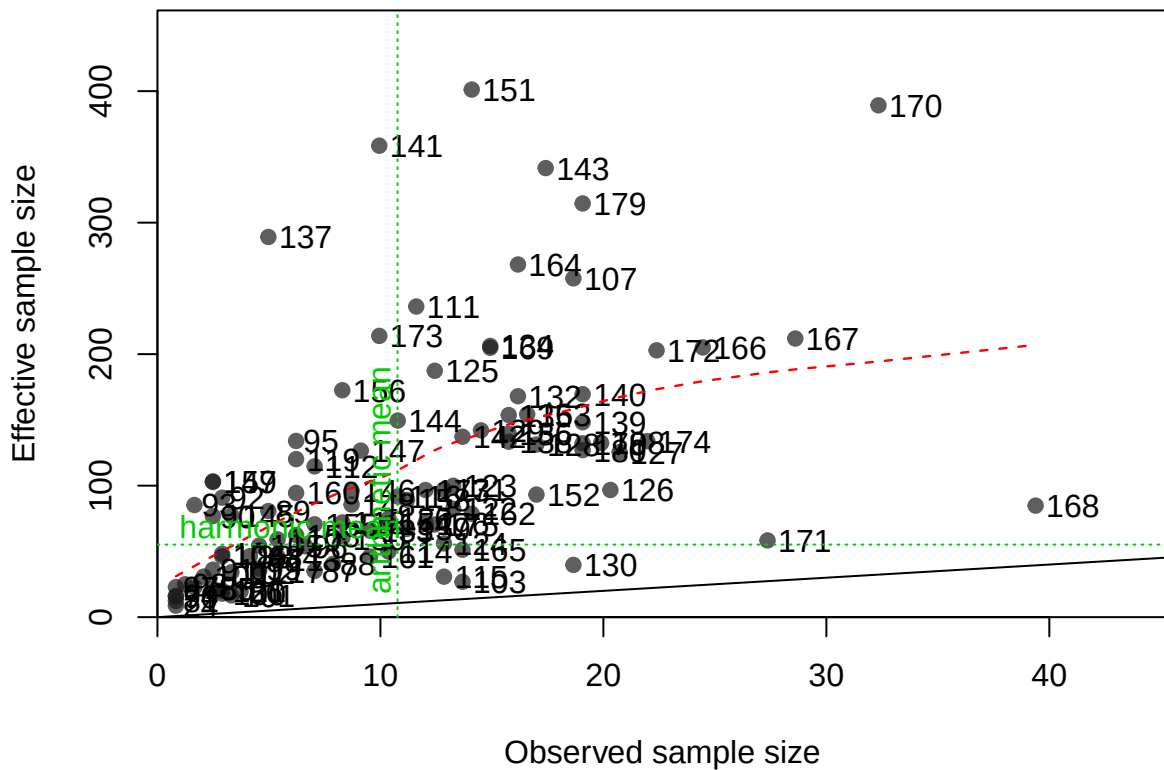


Proportion

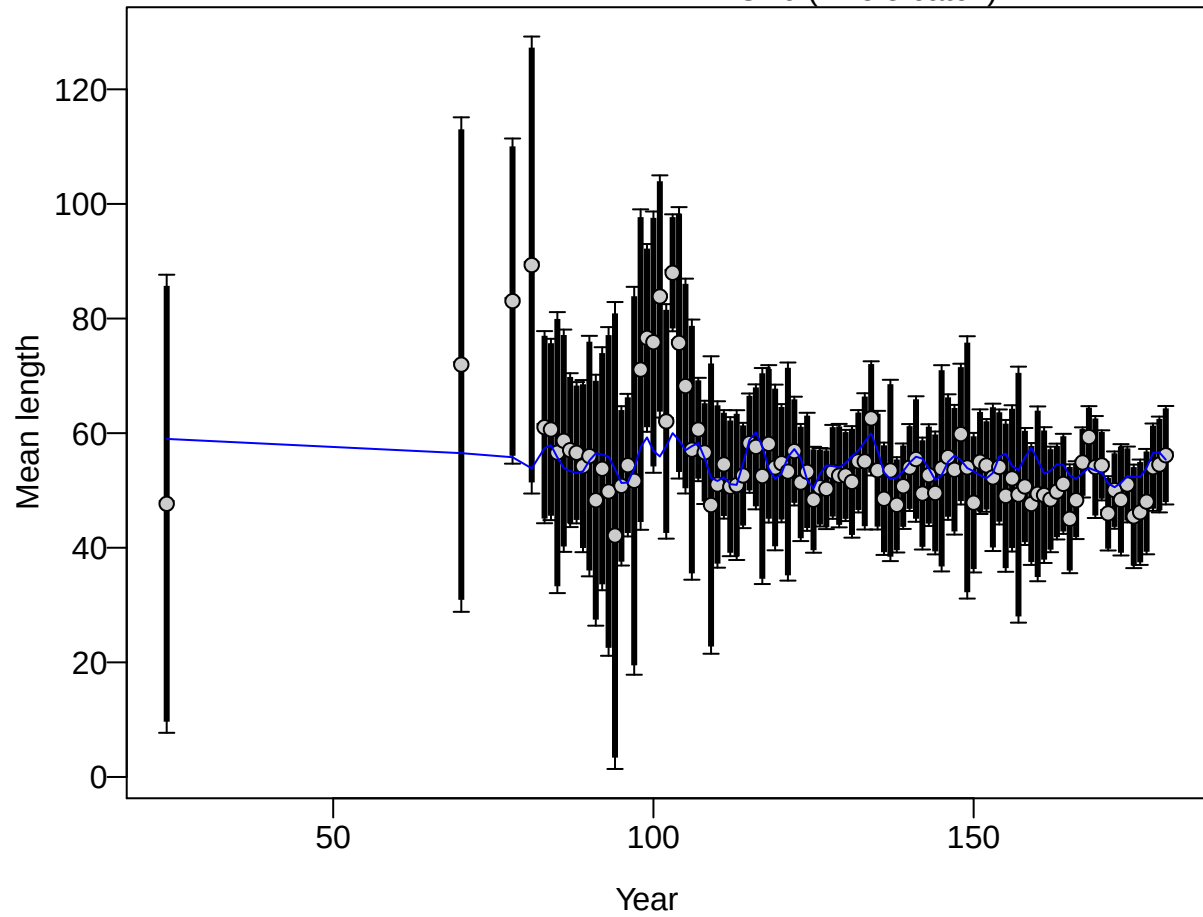


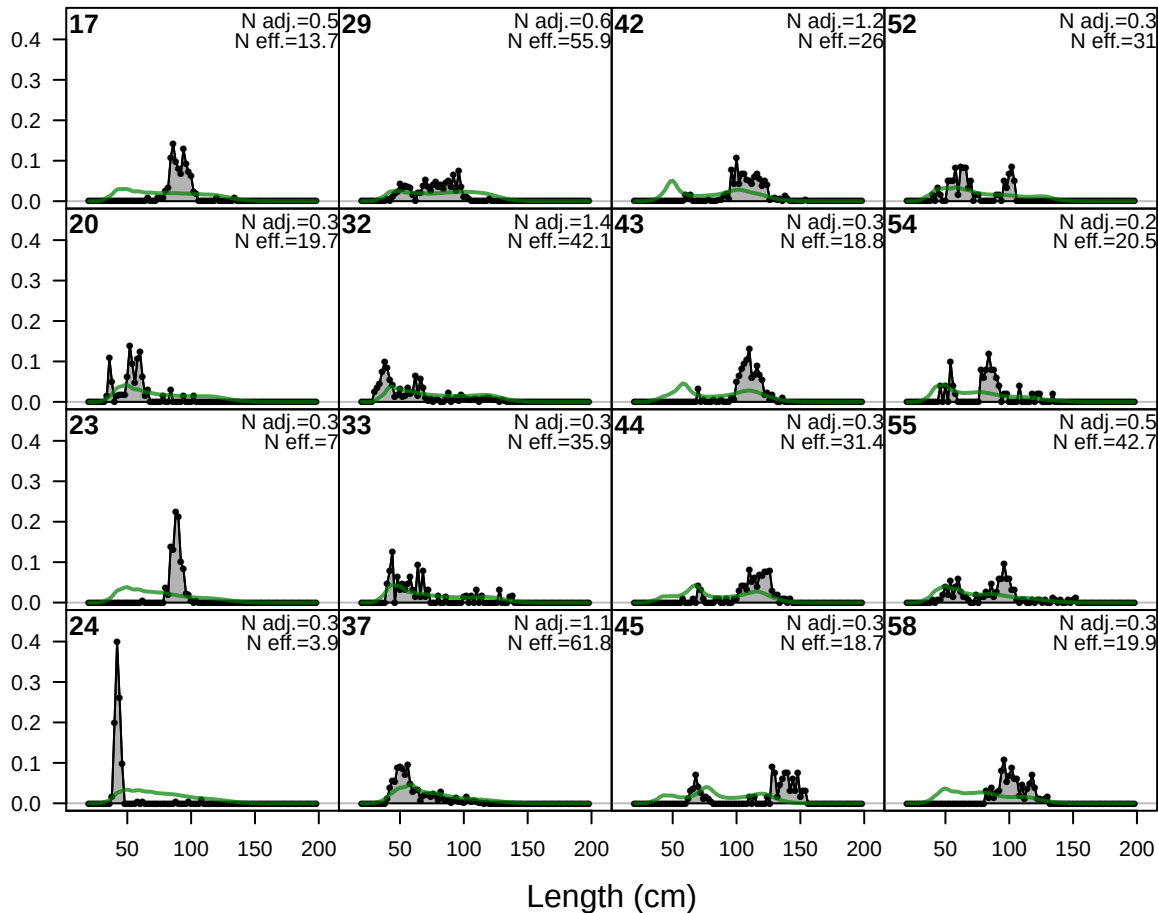
Length (cm)

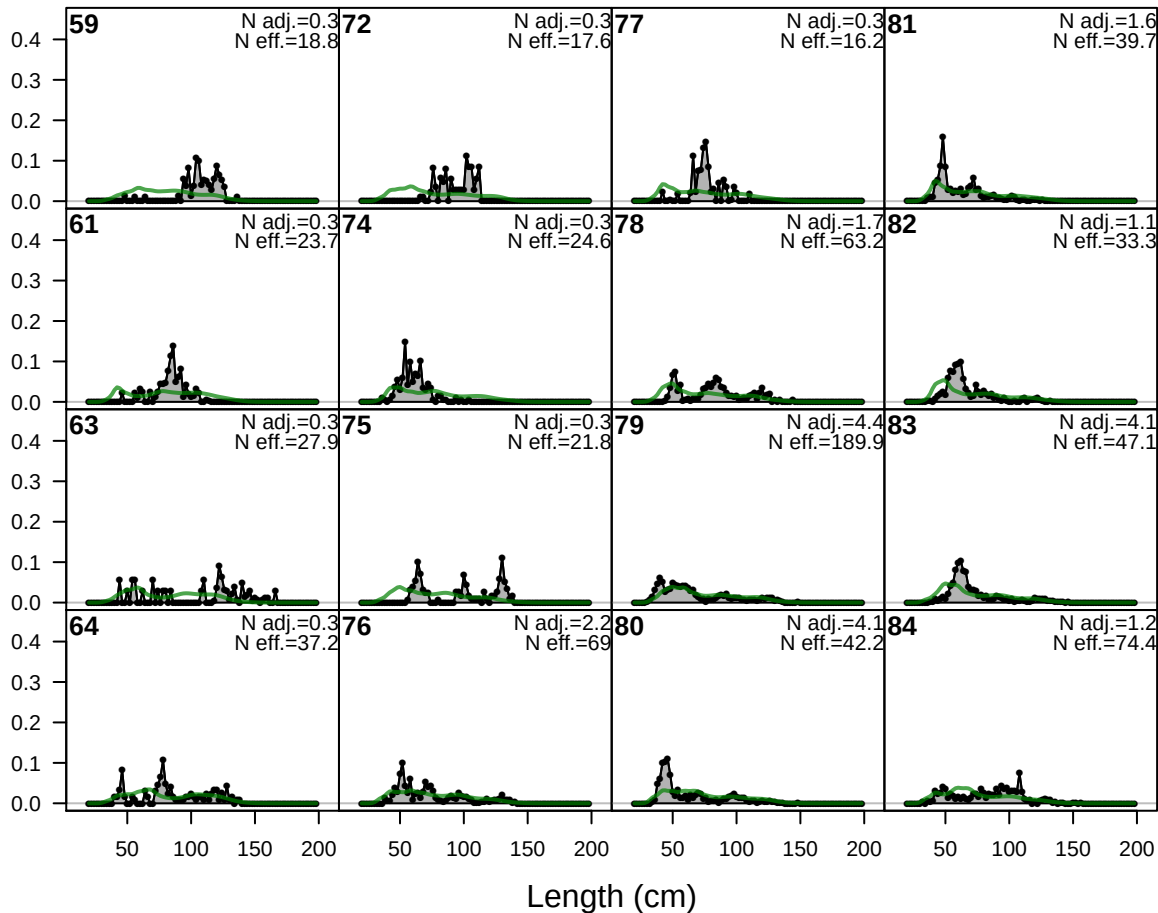


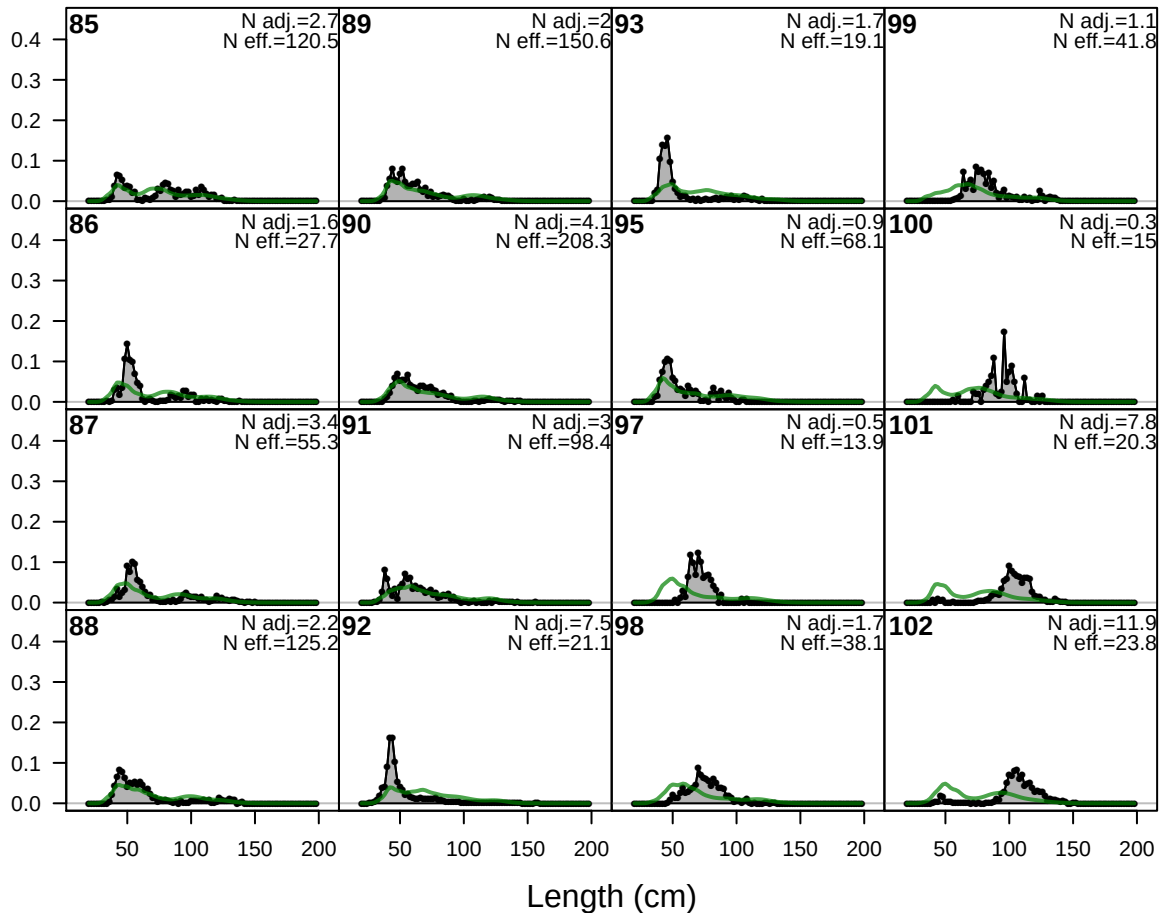


A2-OBJ (whole catch)

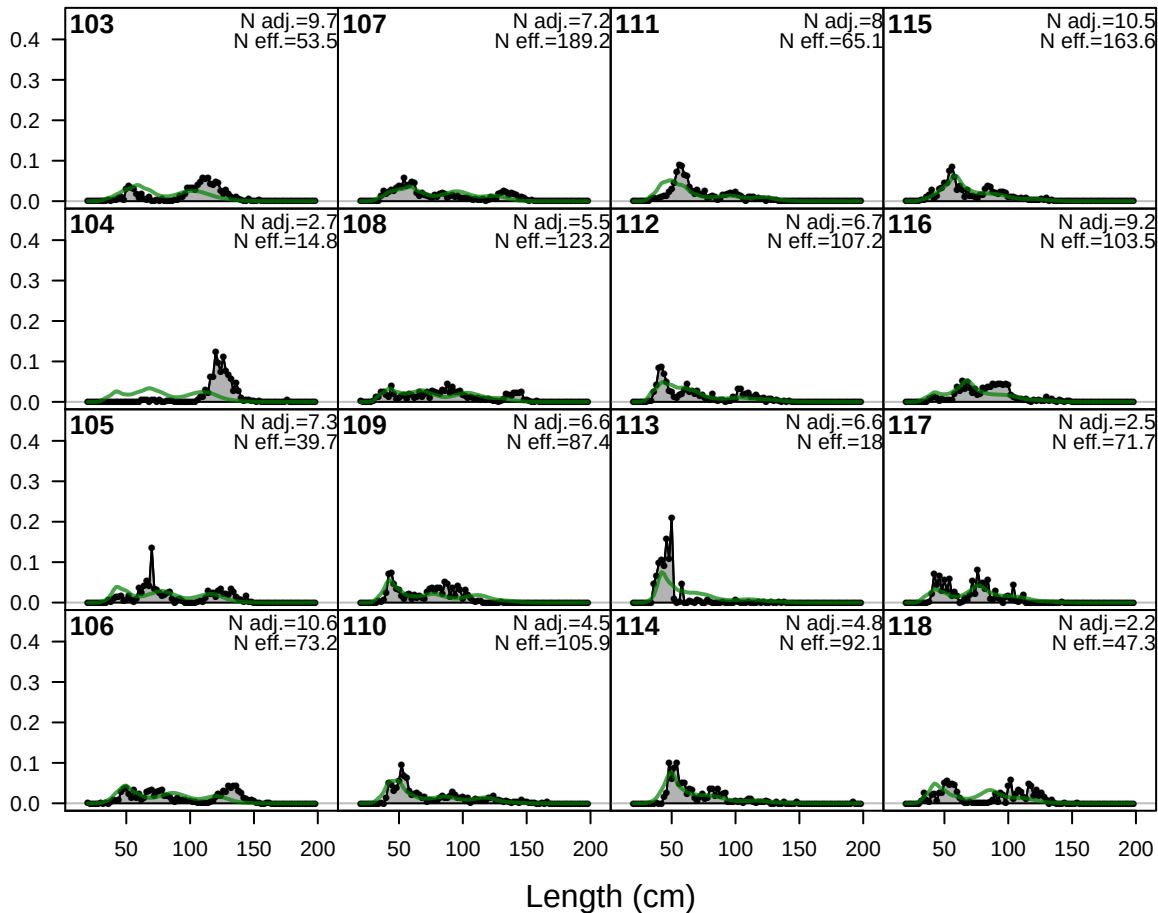


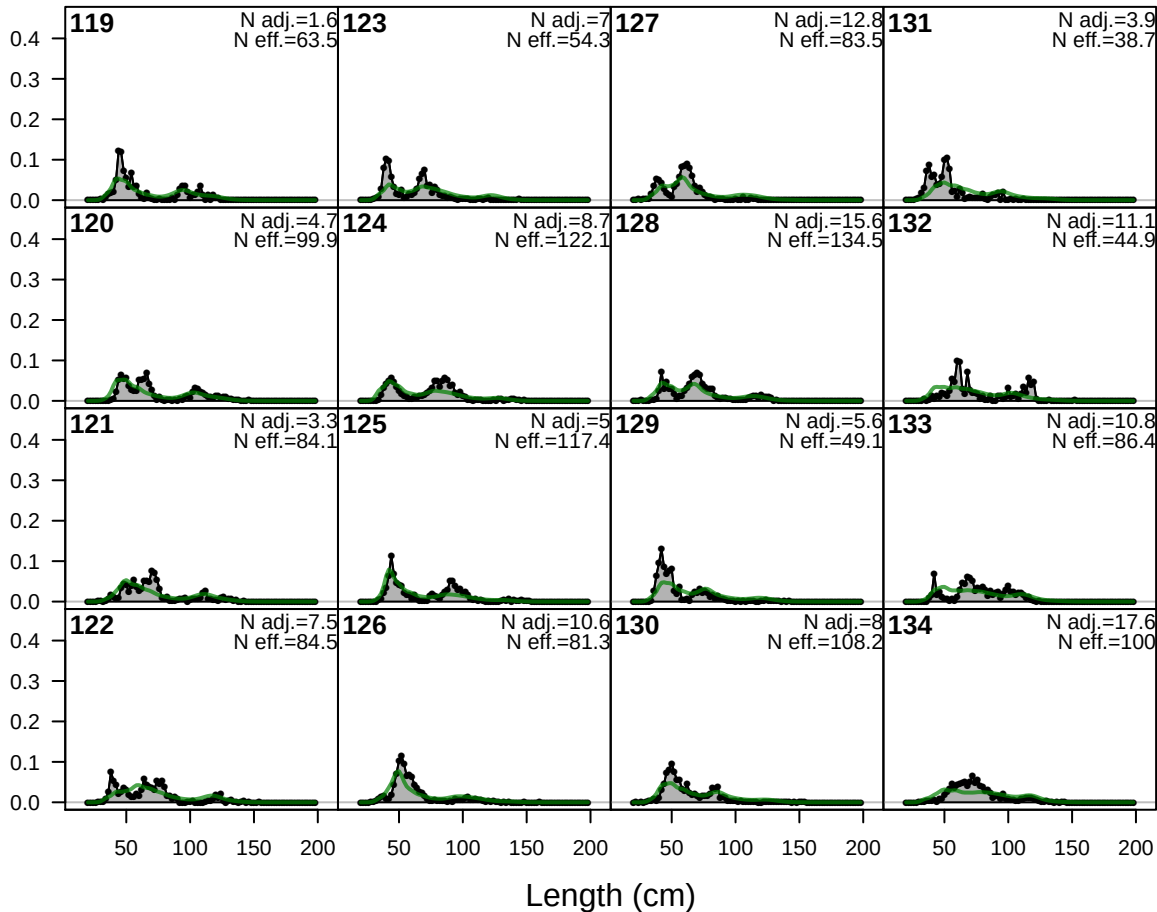


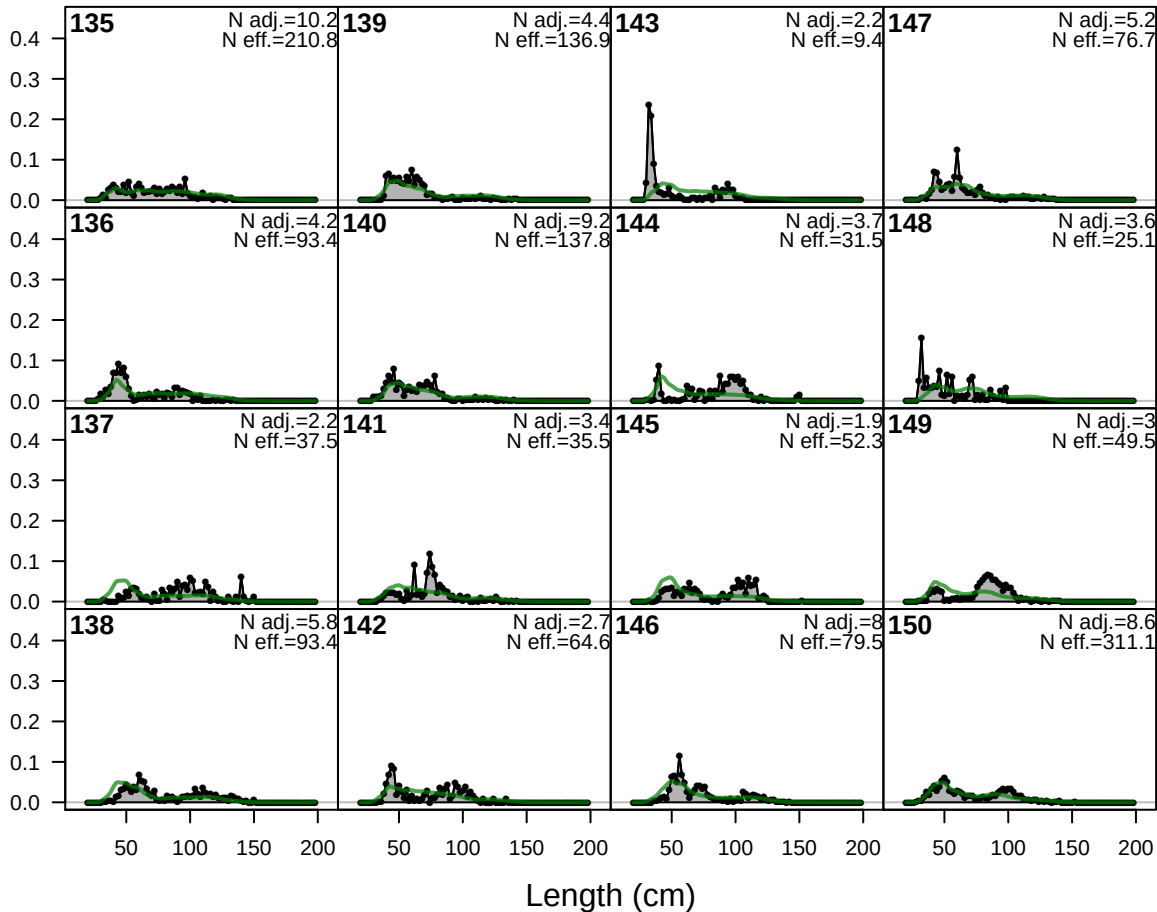


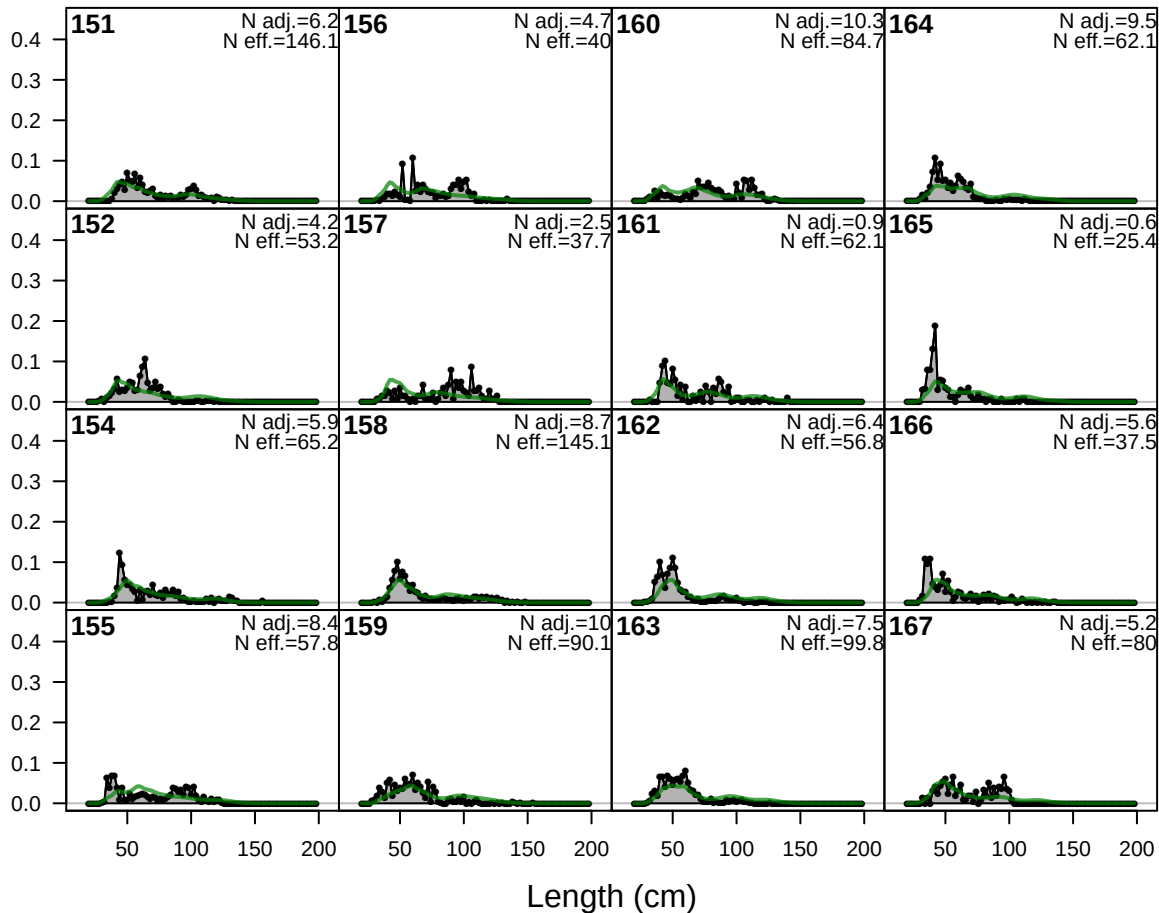


Proportion

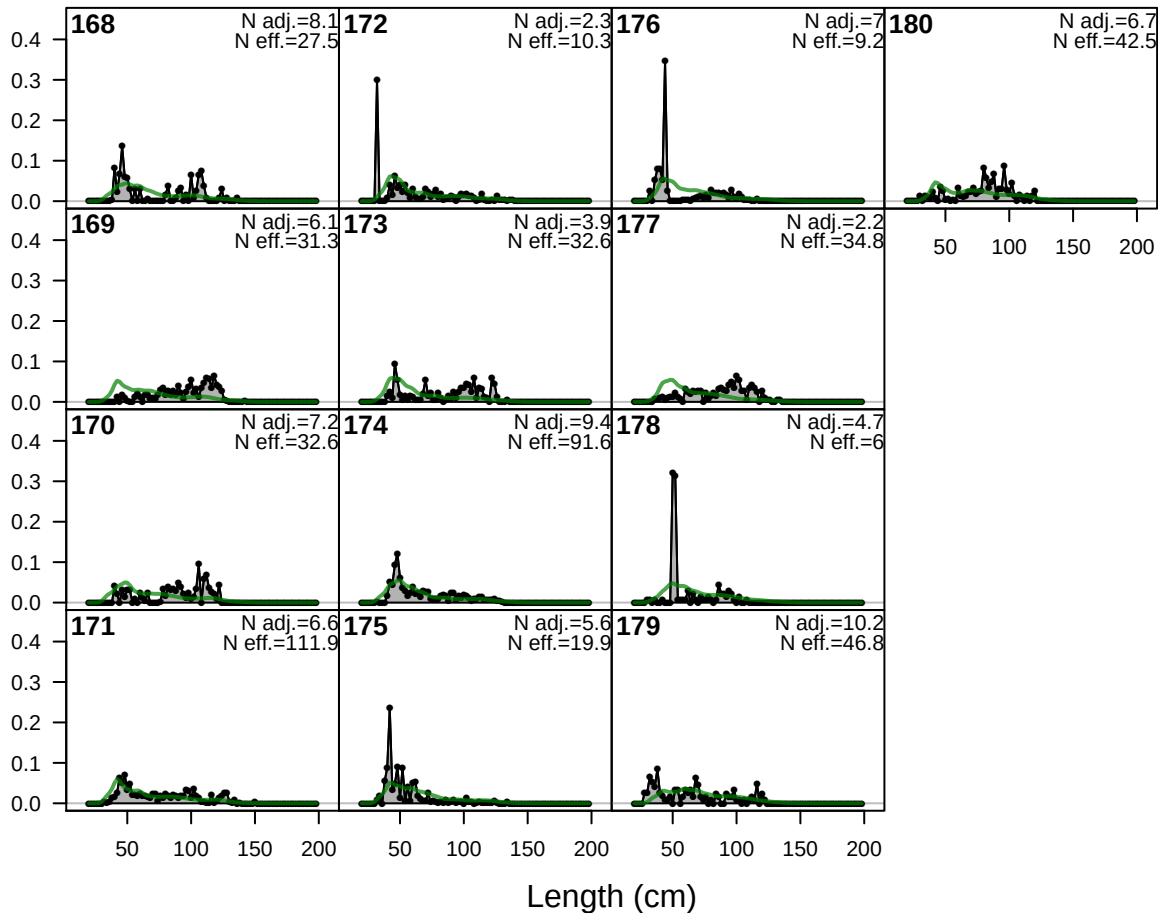


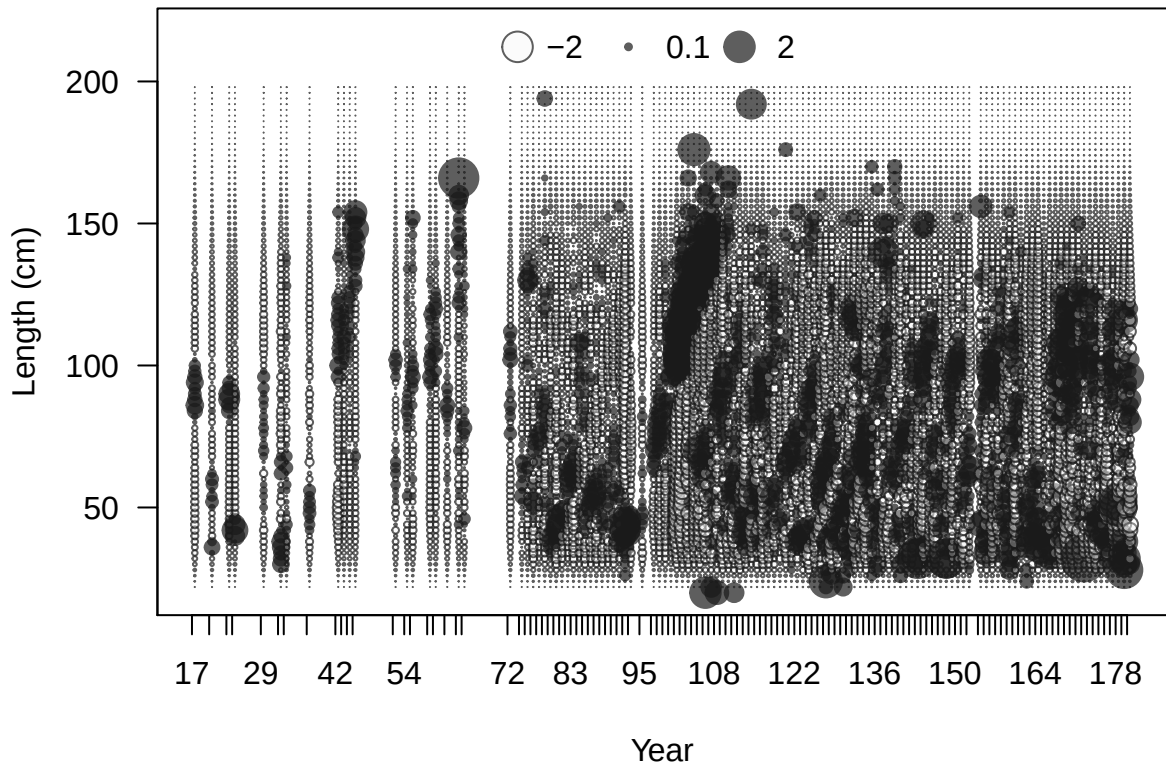


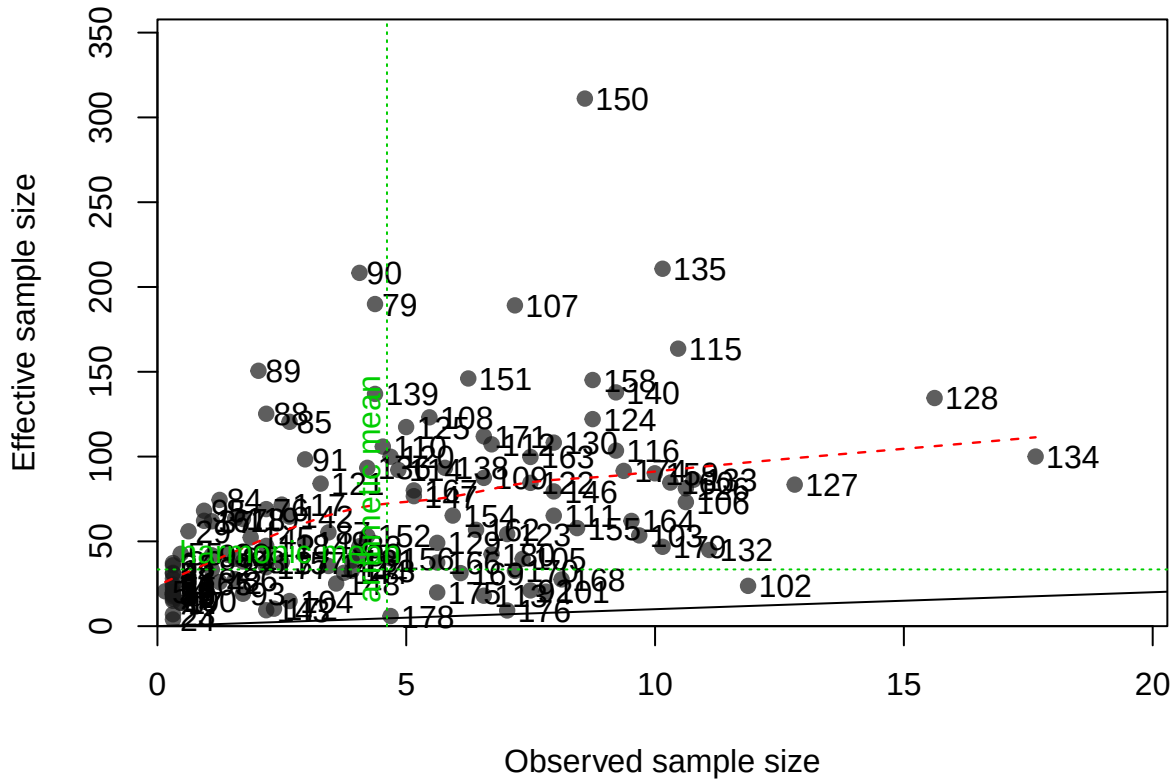




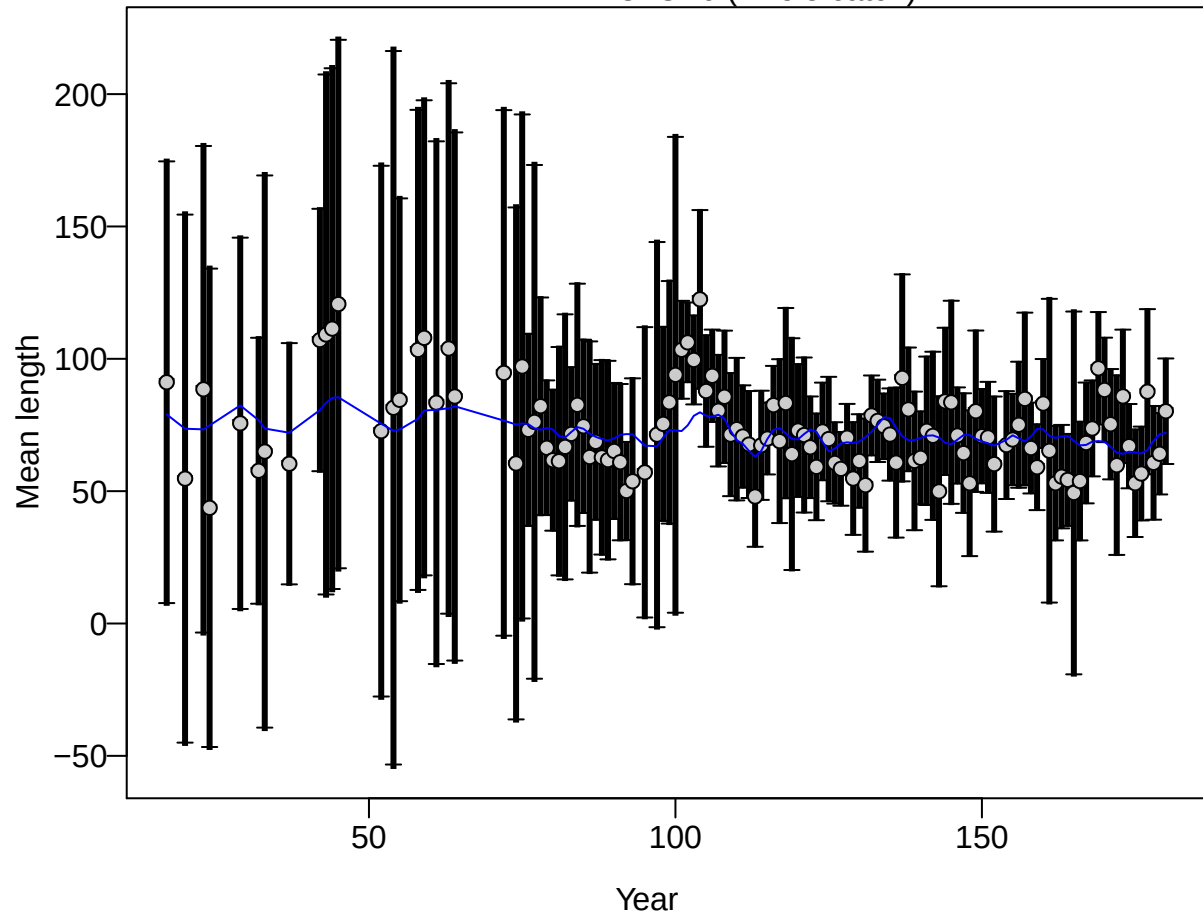
Proportion

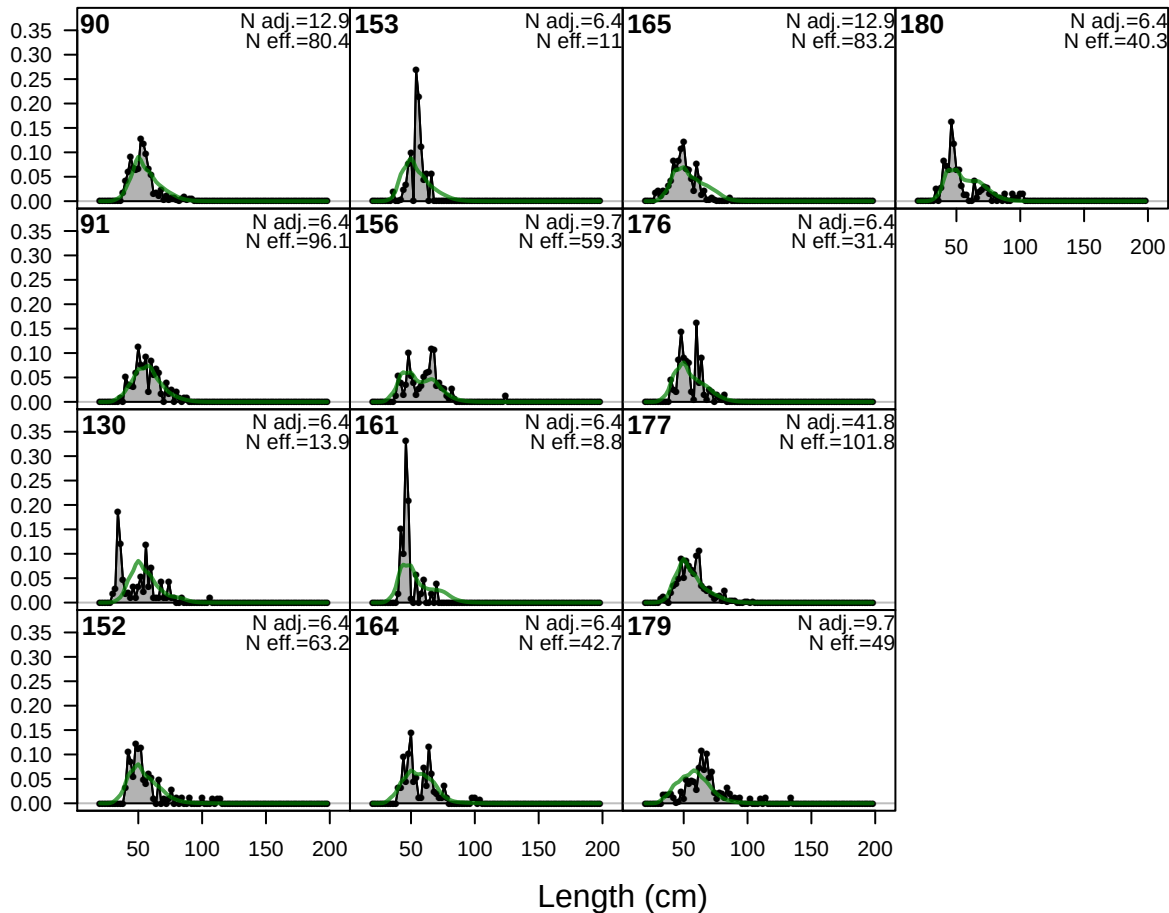


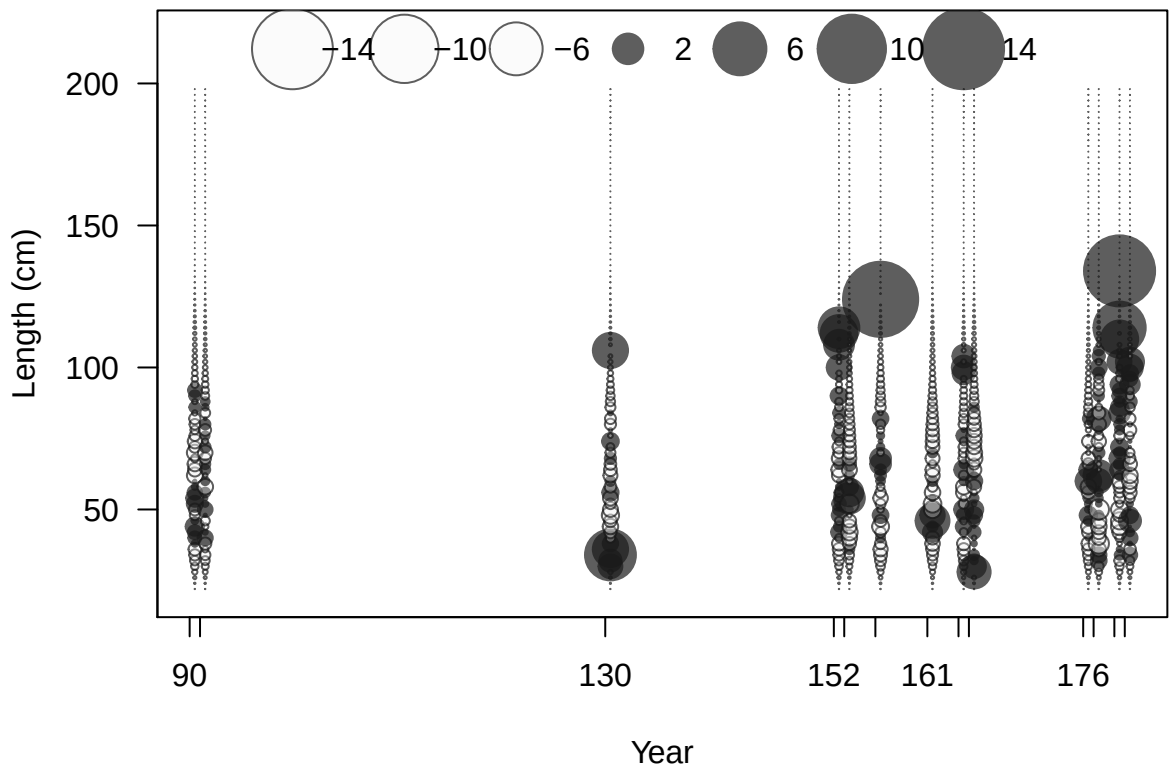


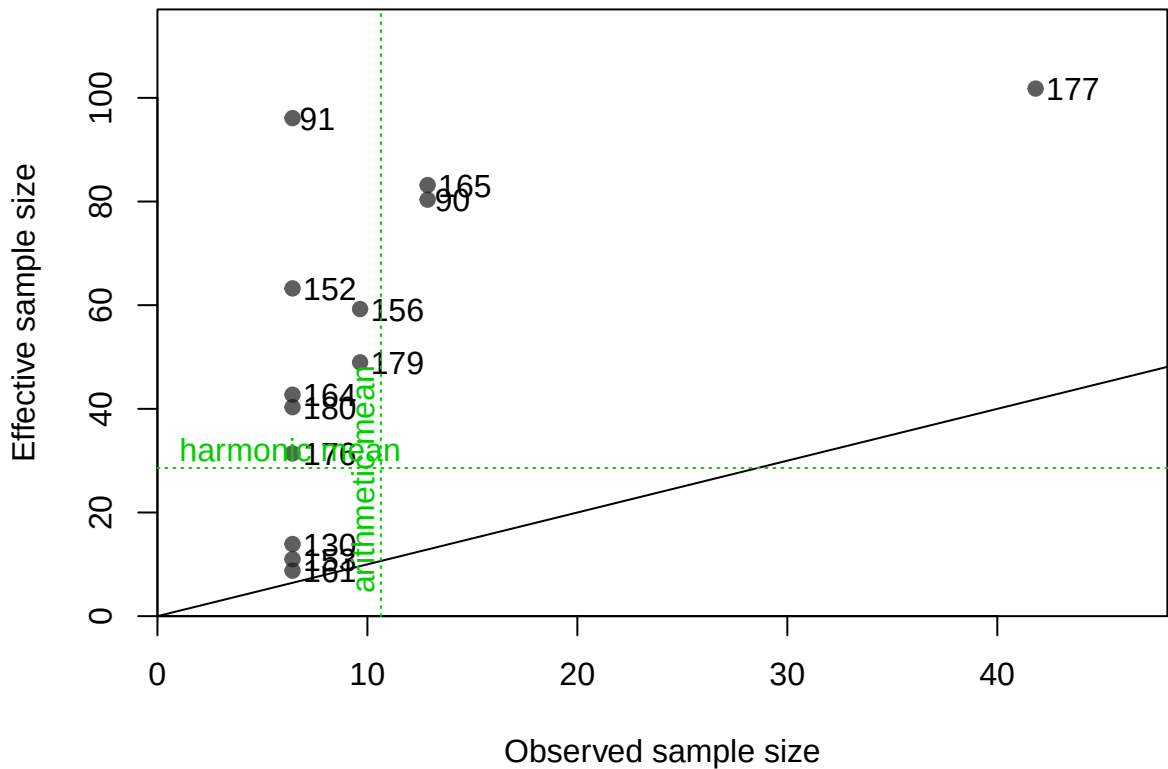


A3-OBJ (whole catch)

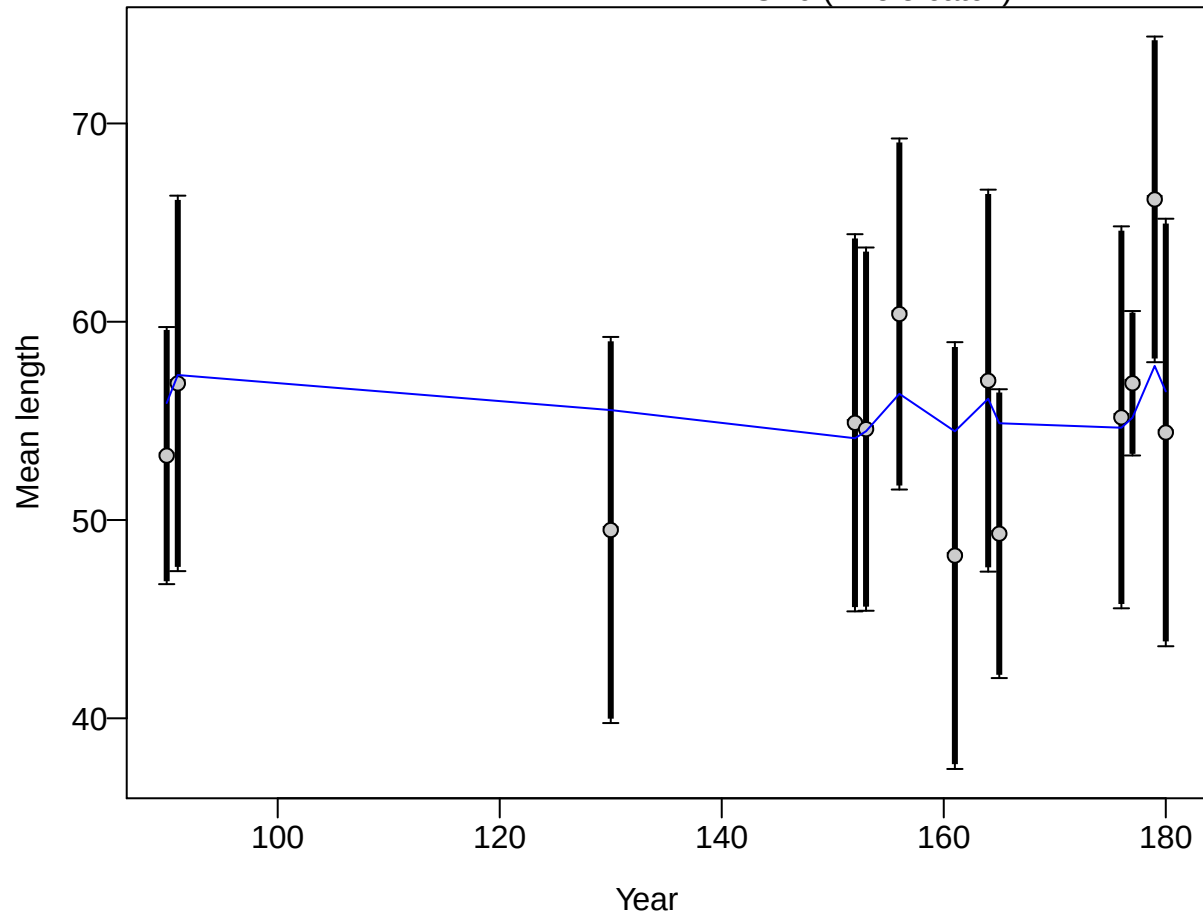


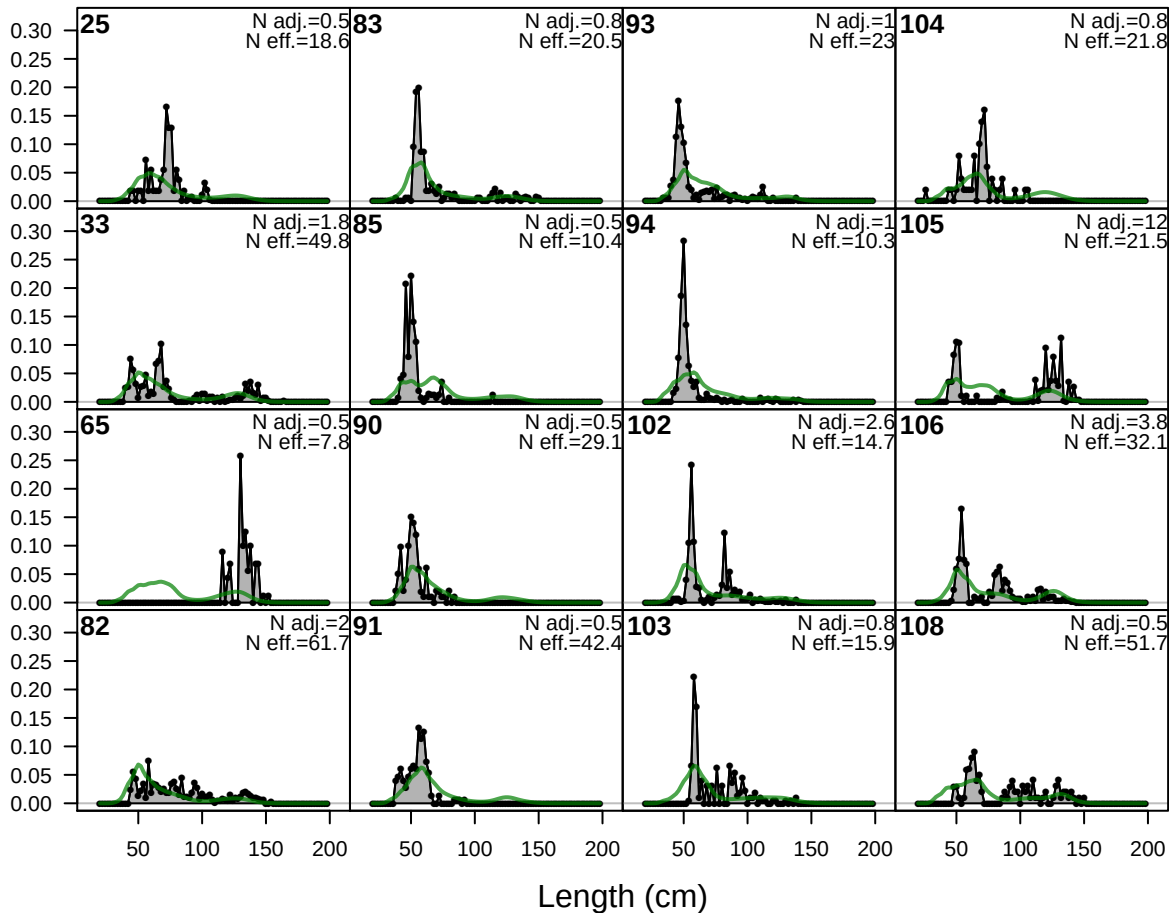


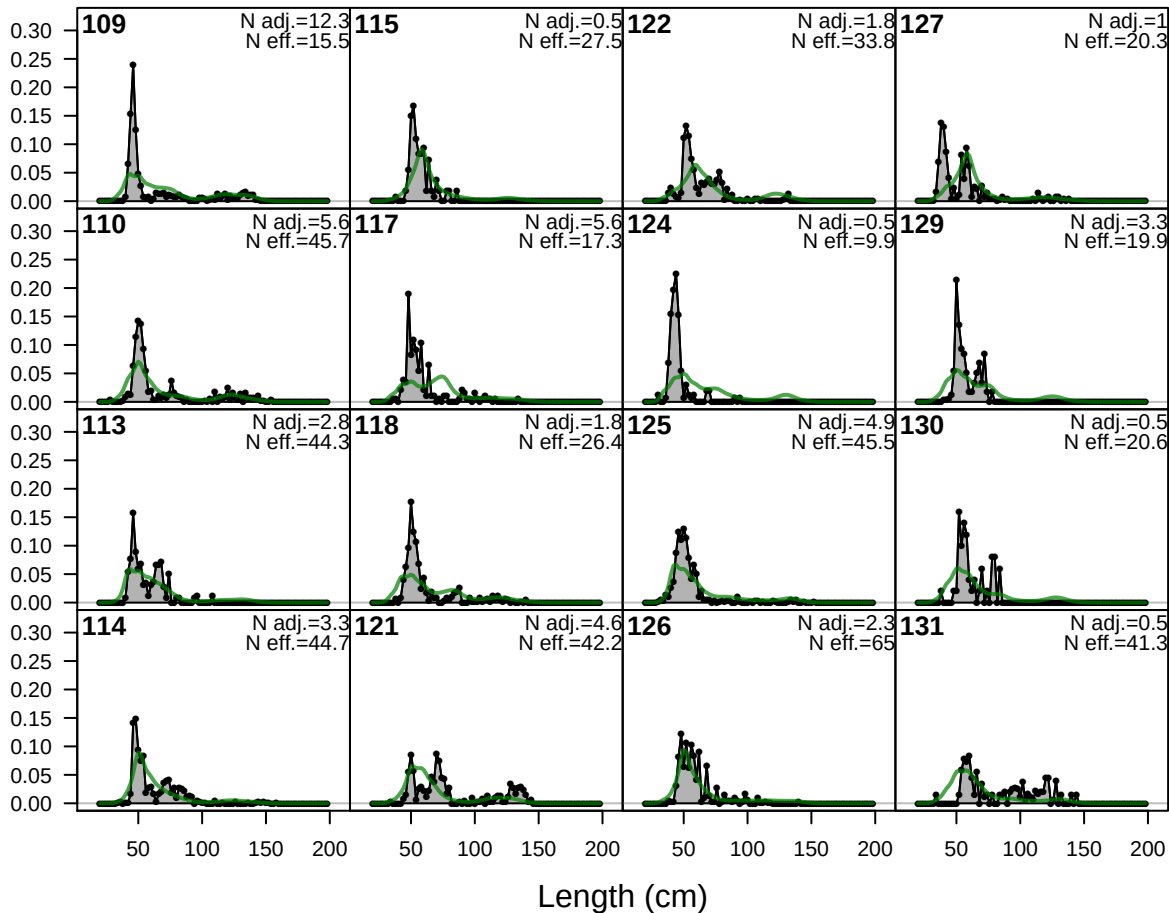


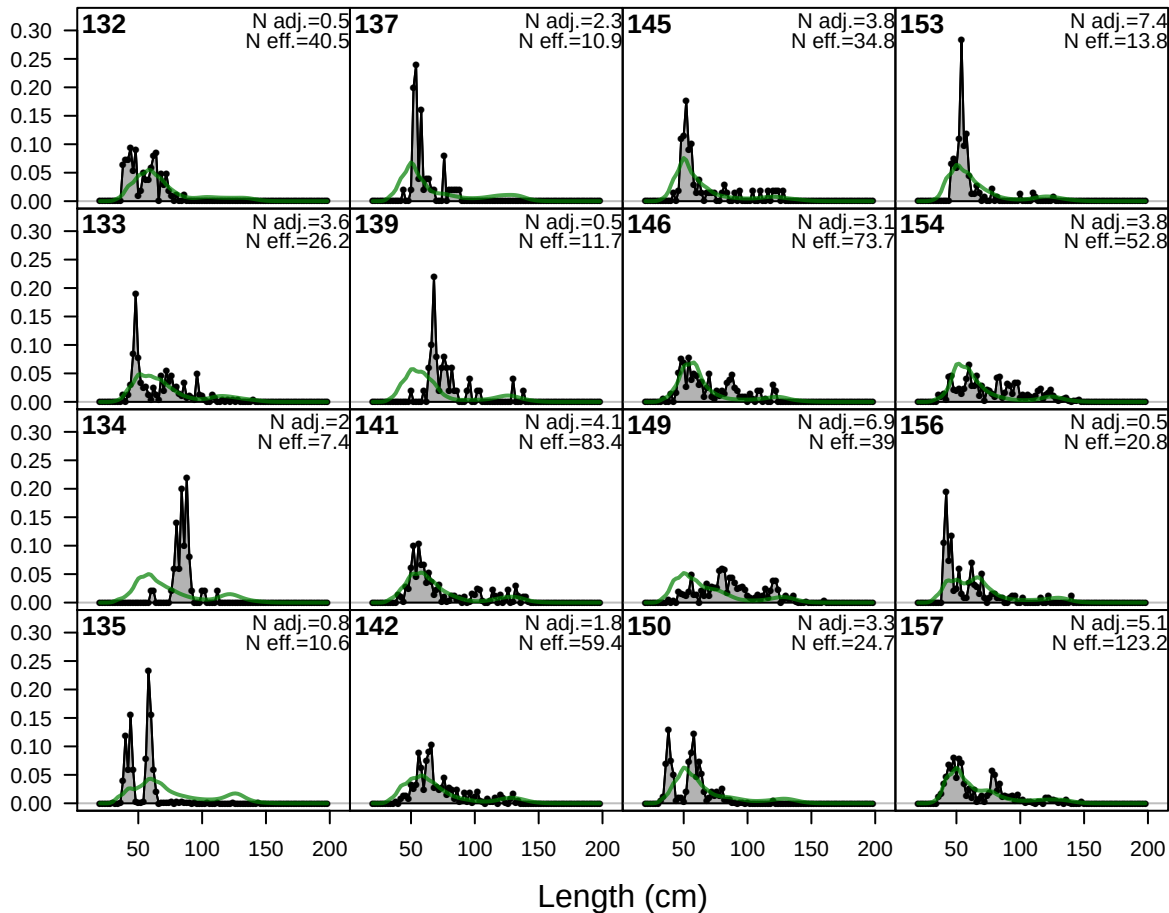


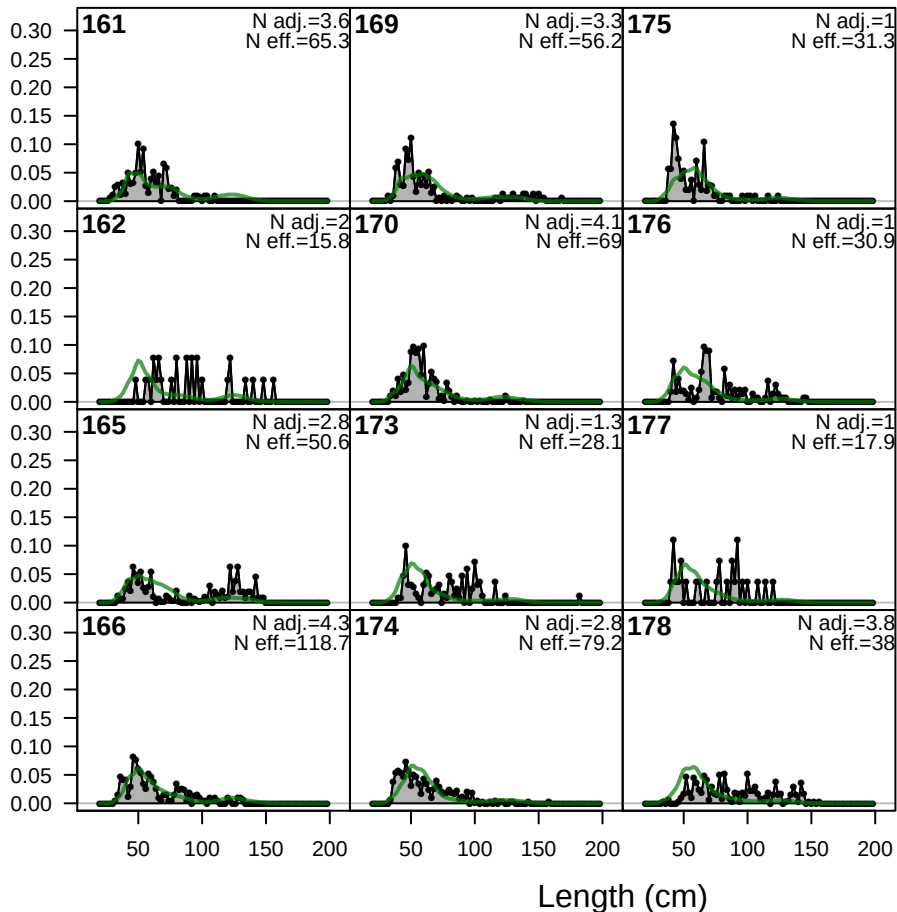
A4-OBJ (whole catch)

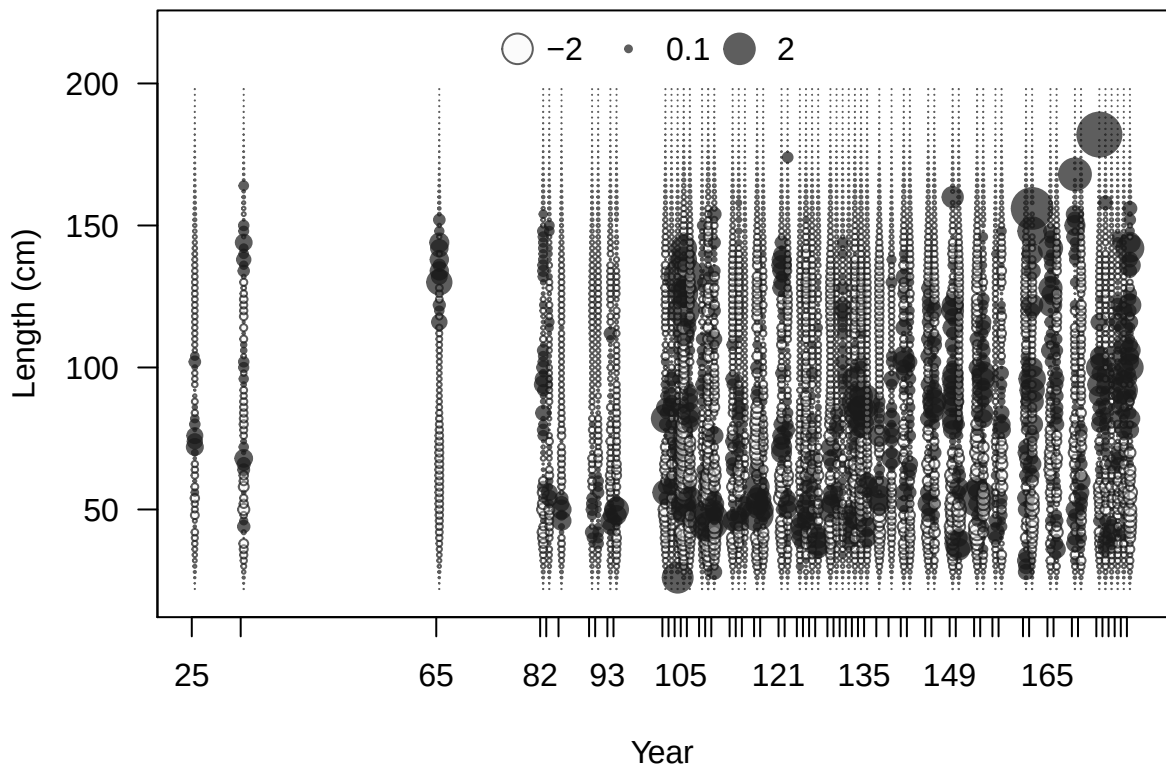




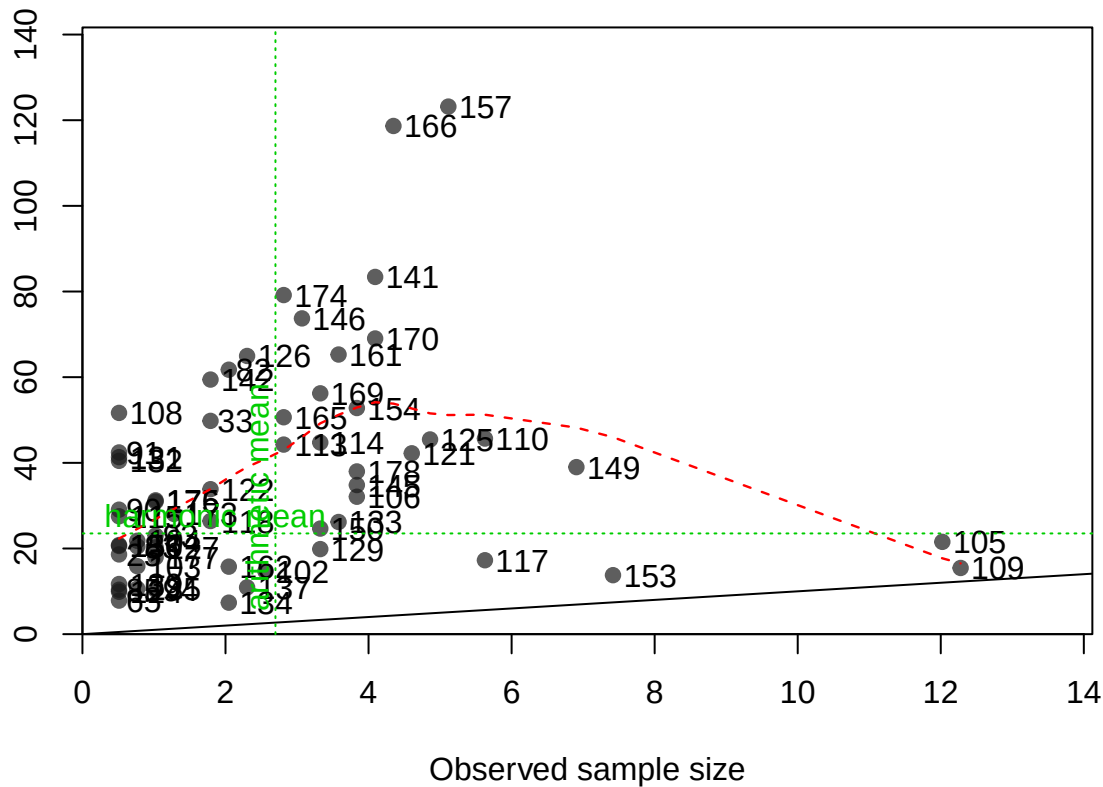




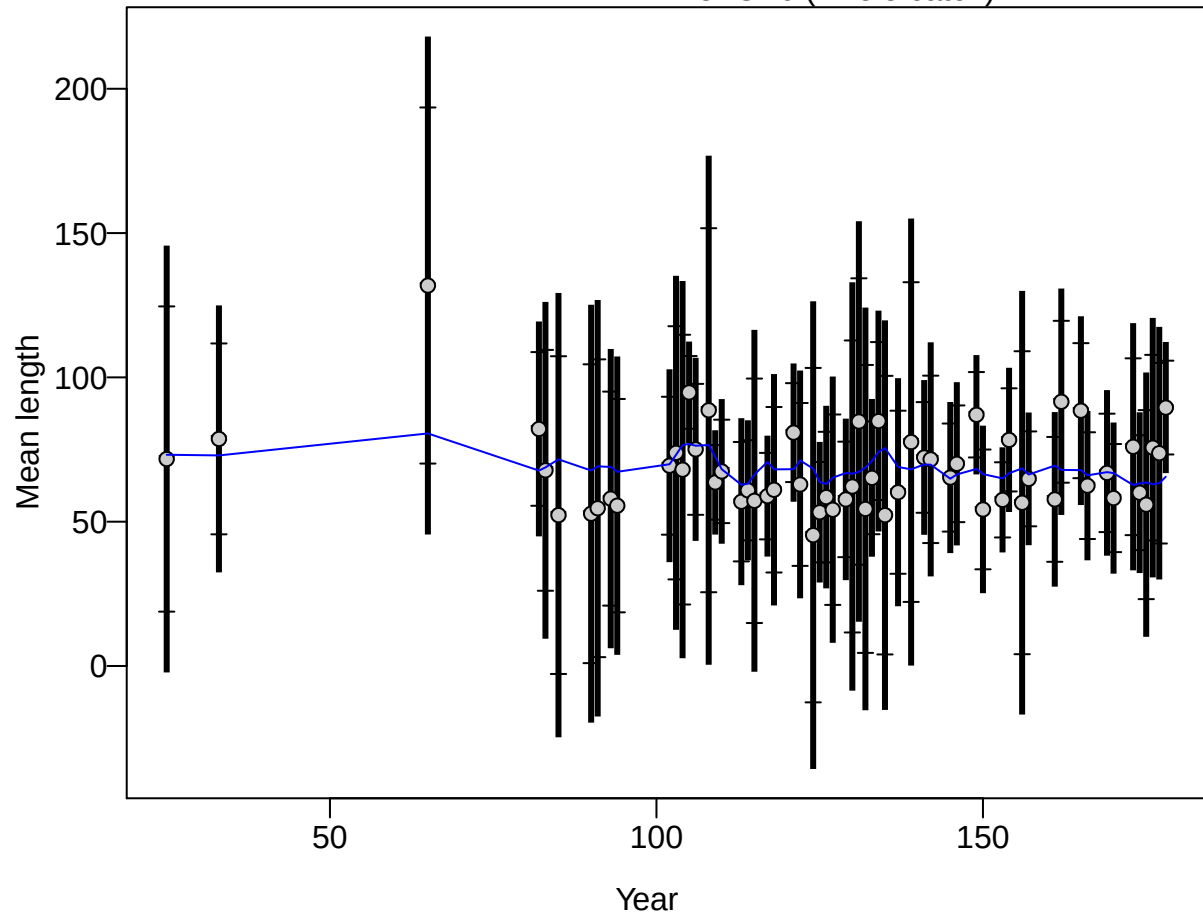


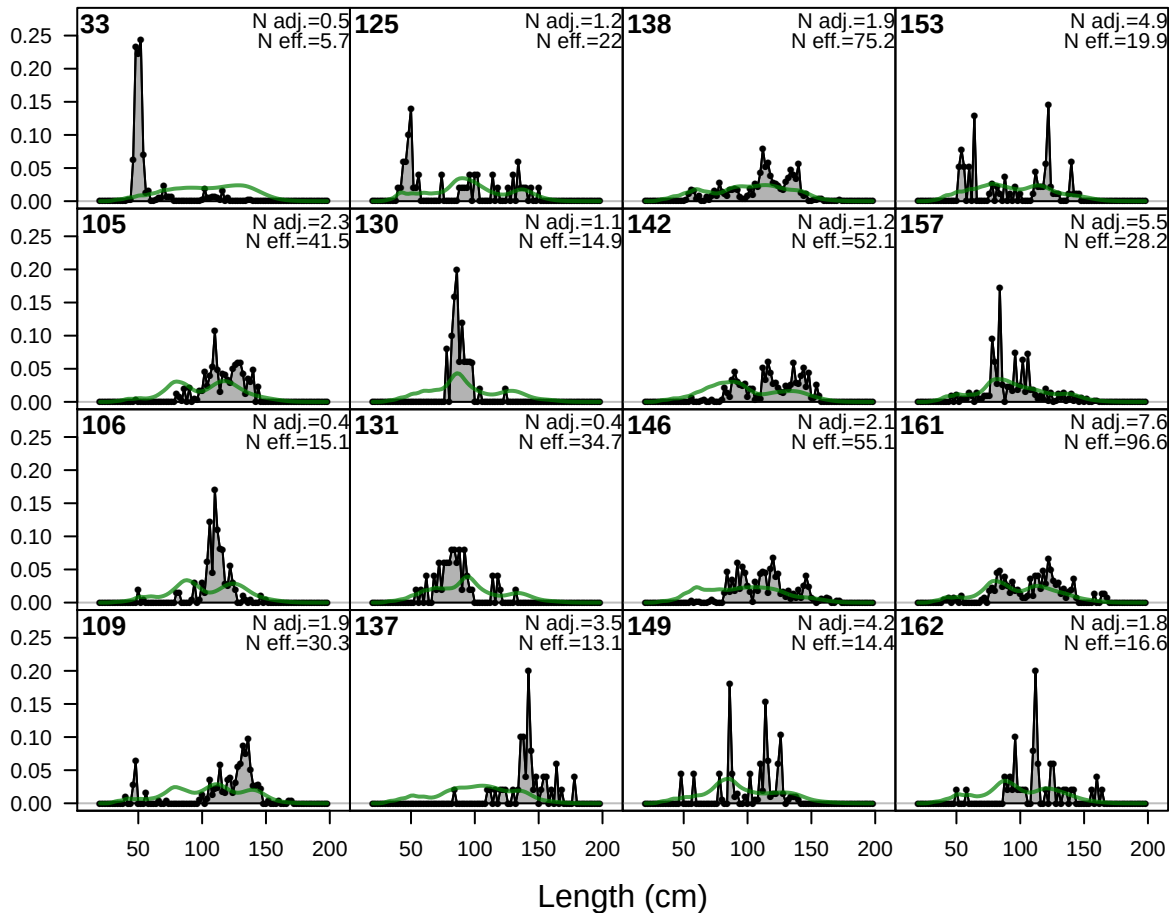


Effective sample size

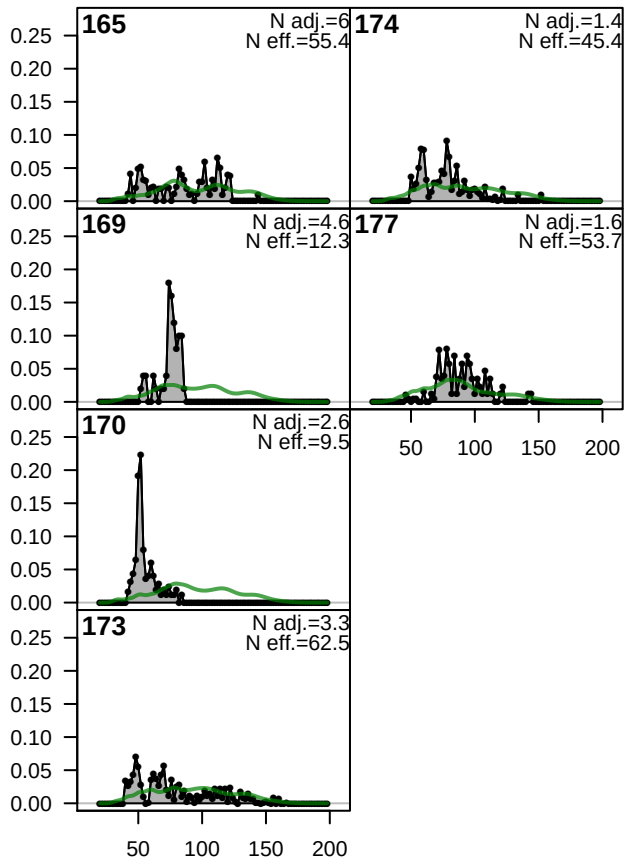


A5-OBJ (whole catch)

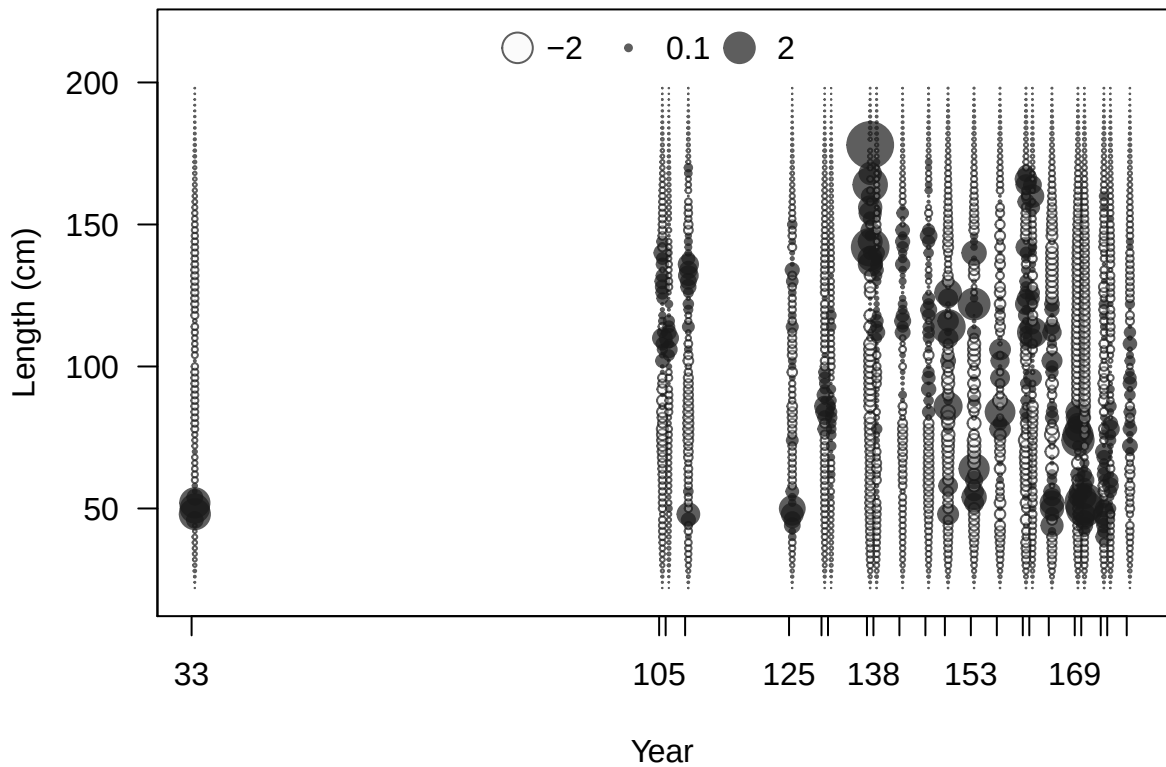


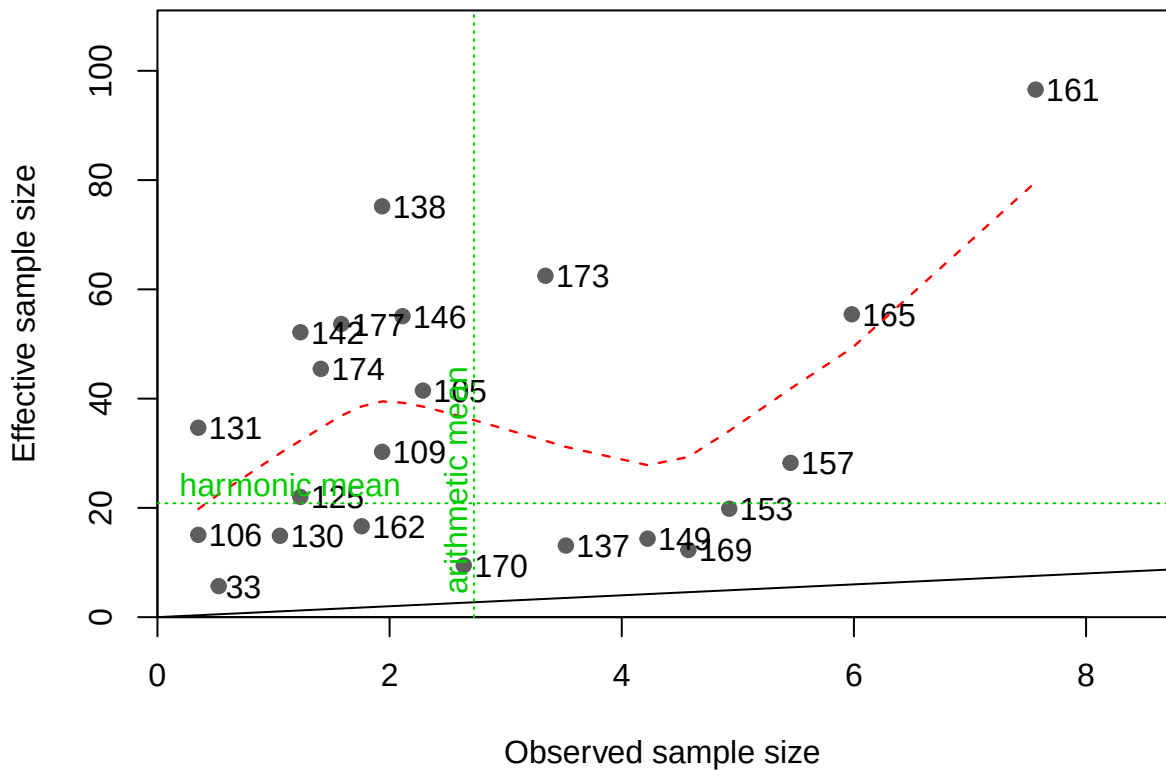


Proportion

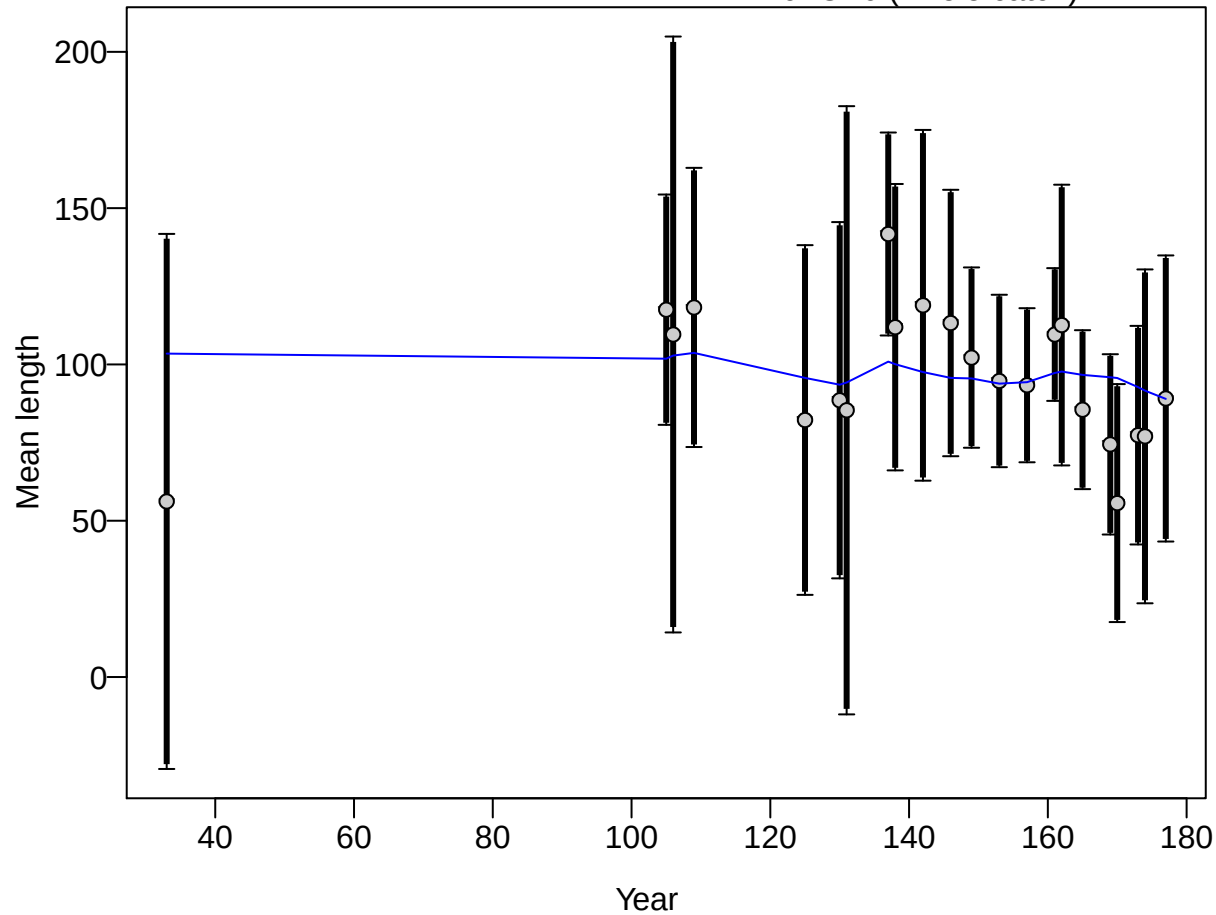


Length (cm)

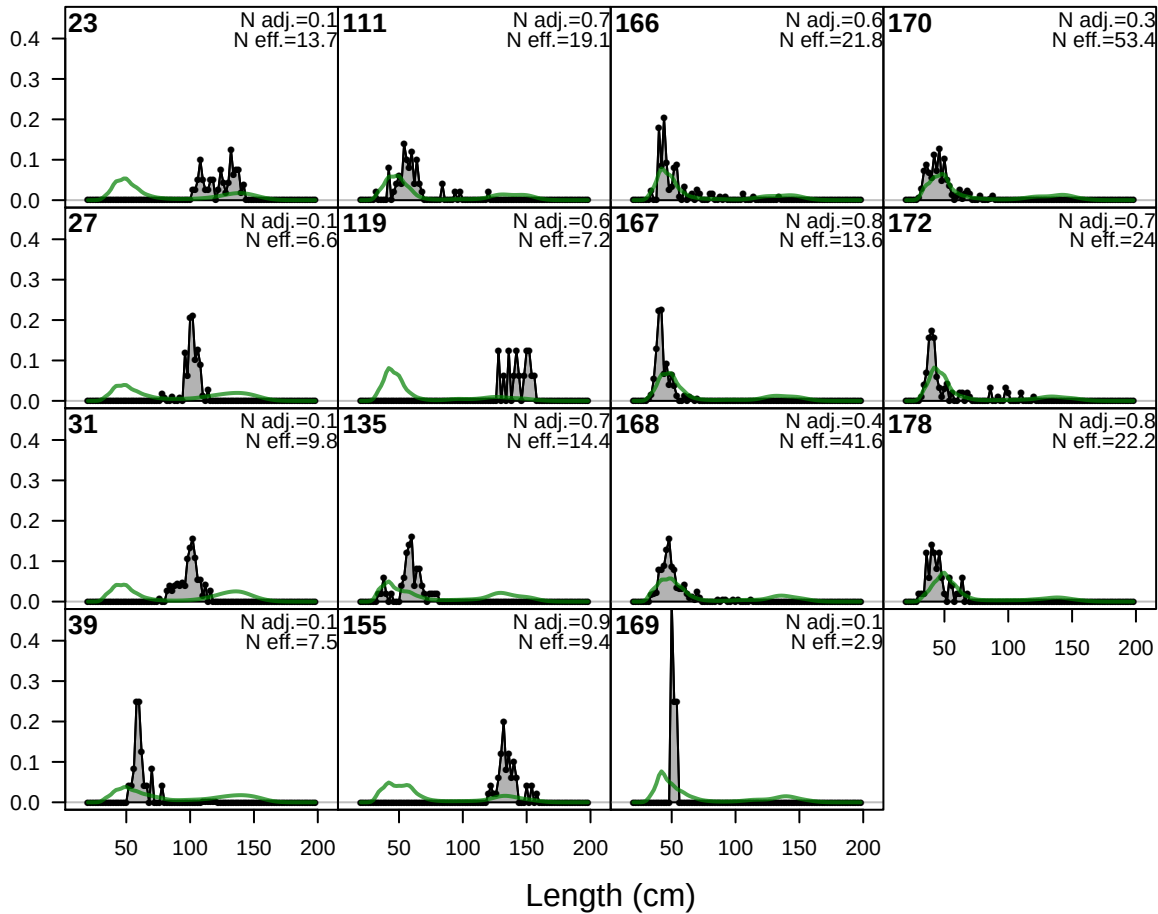


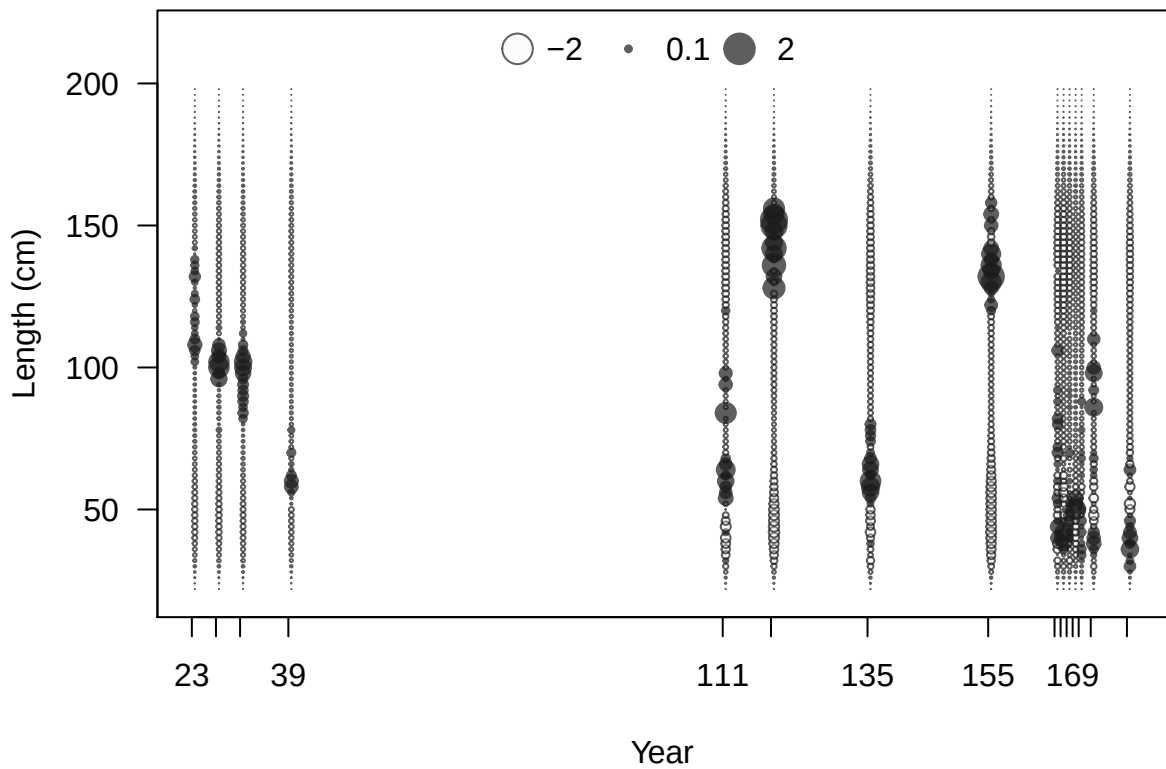


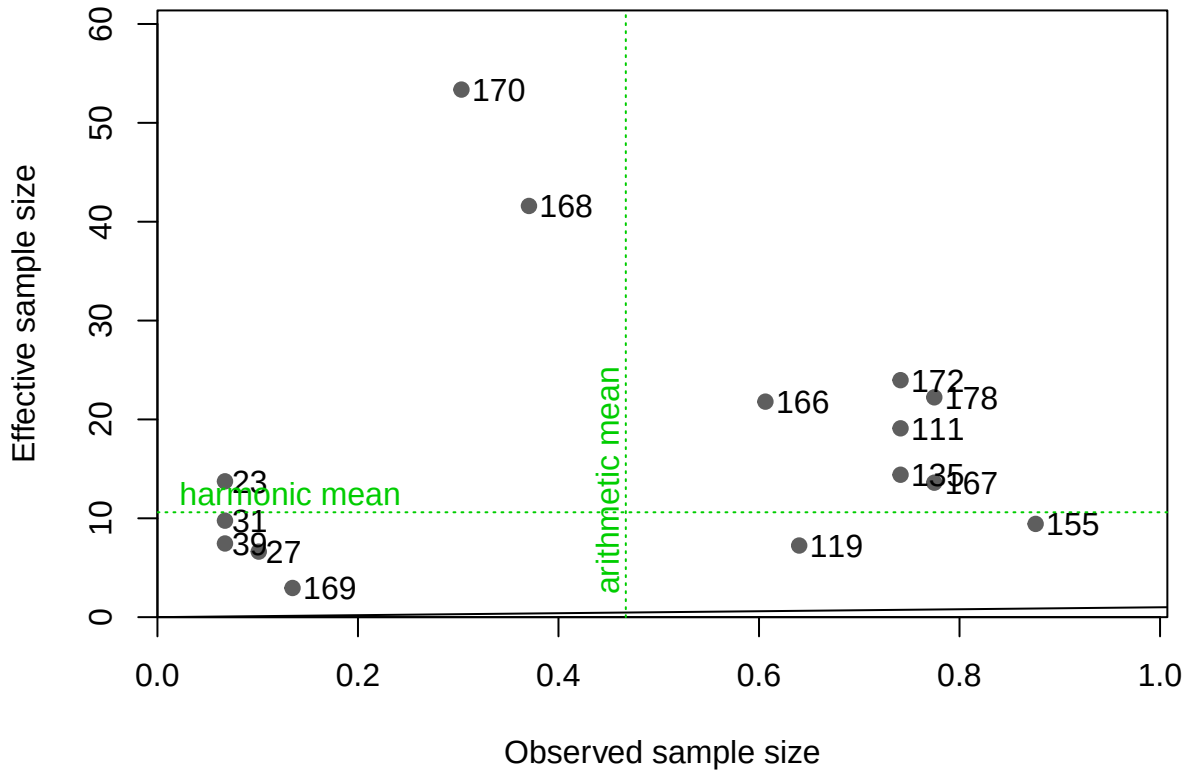
A6-OBJ (whole catch)



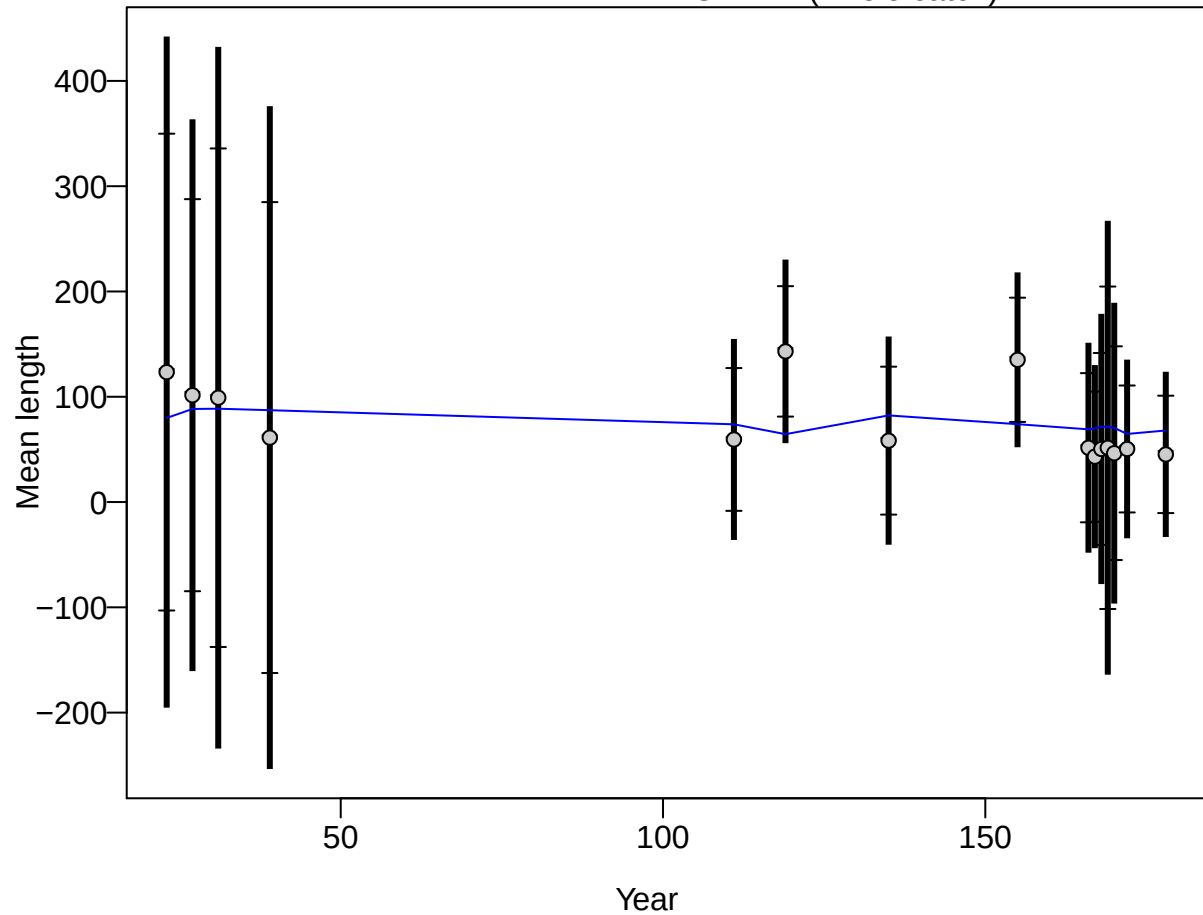
Proportion



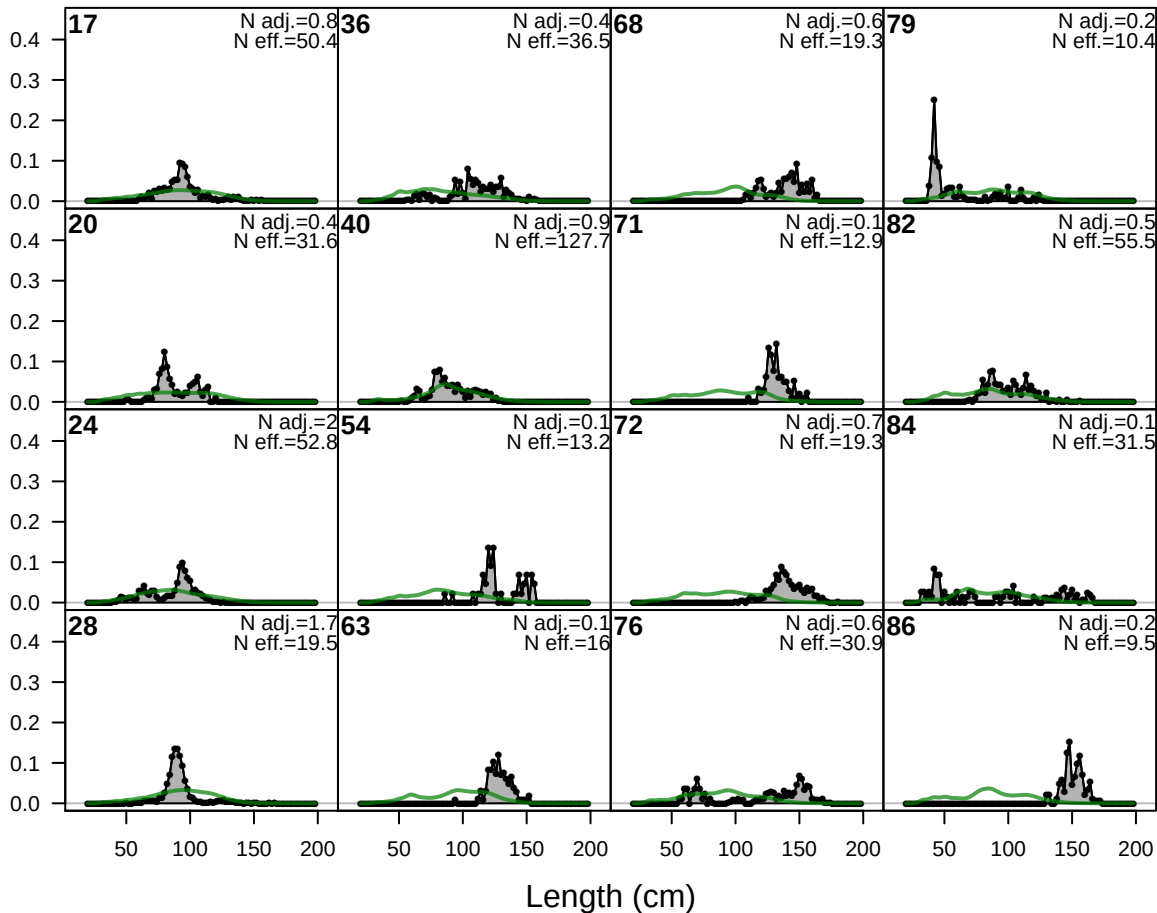


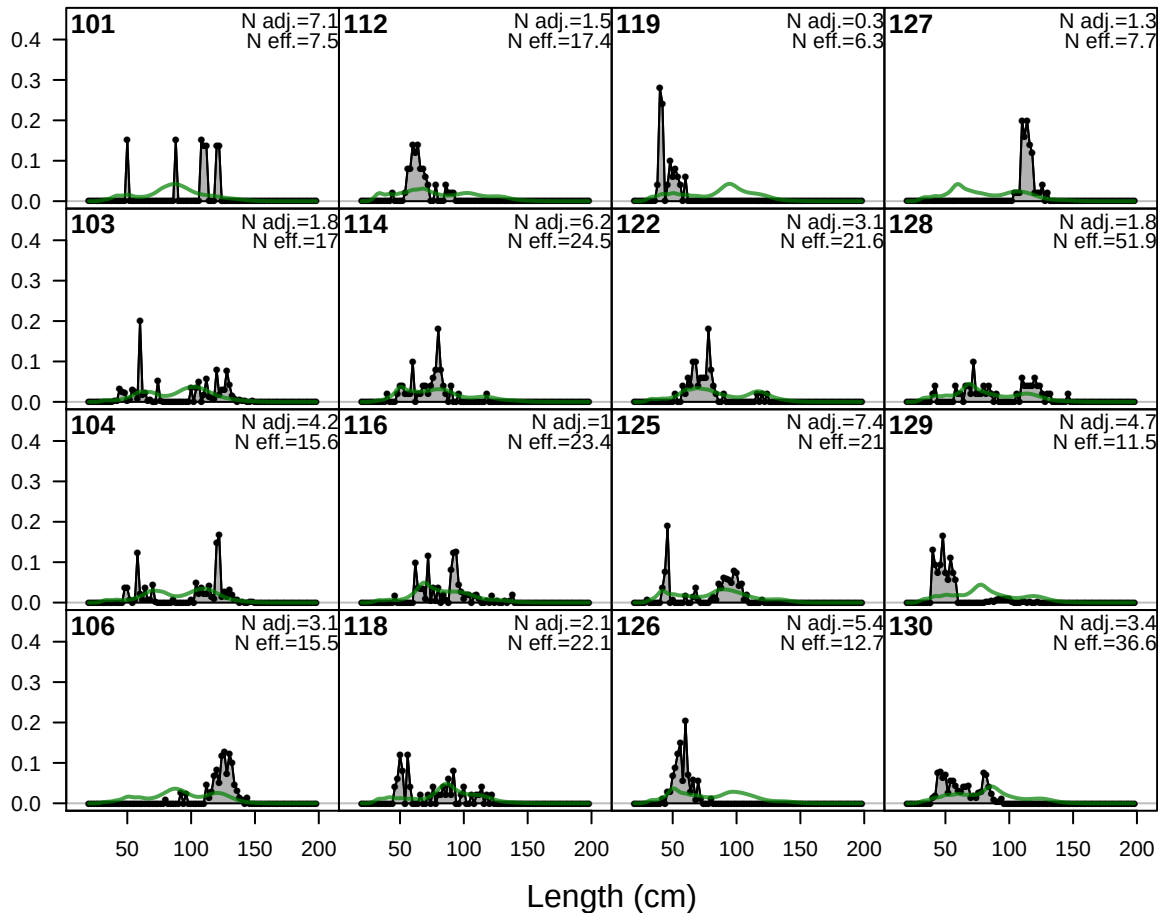


A2-NOADEL (whole catch)

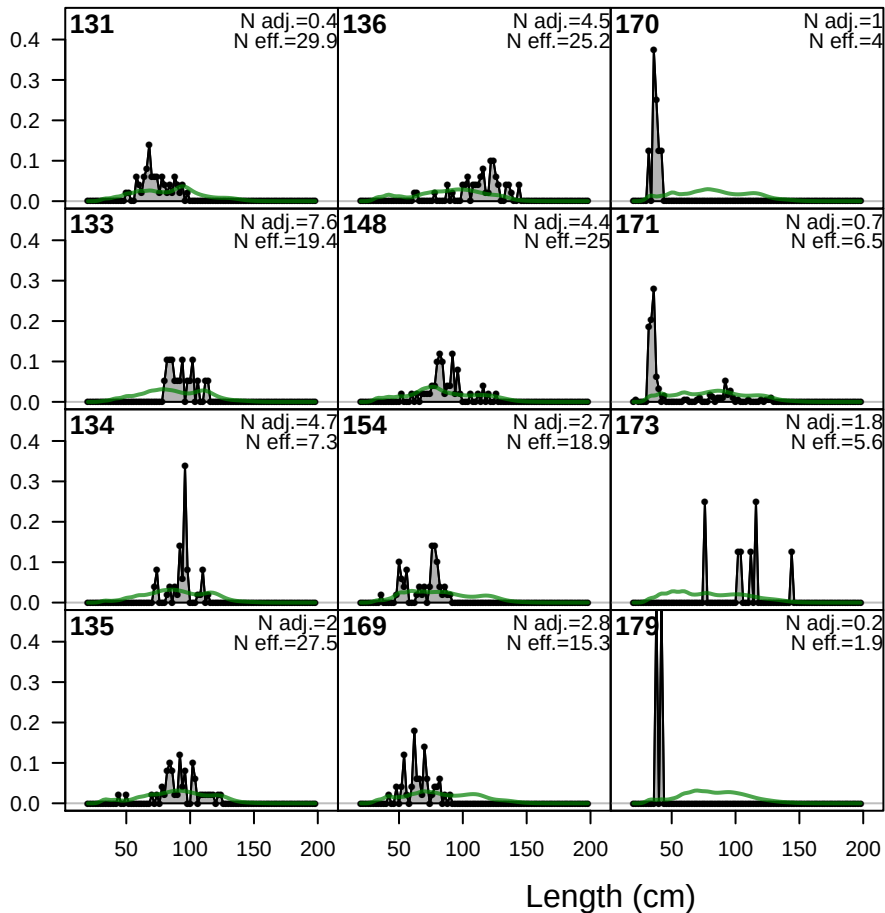


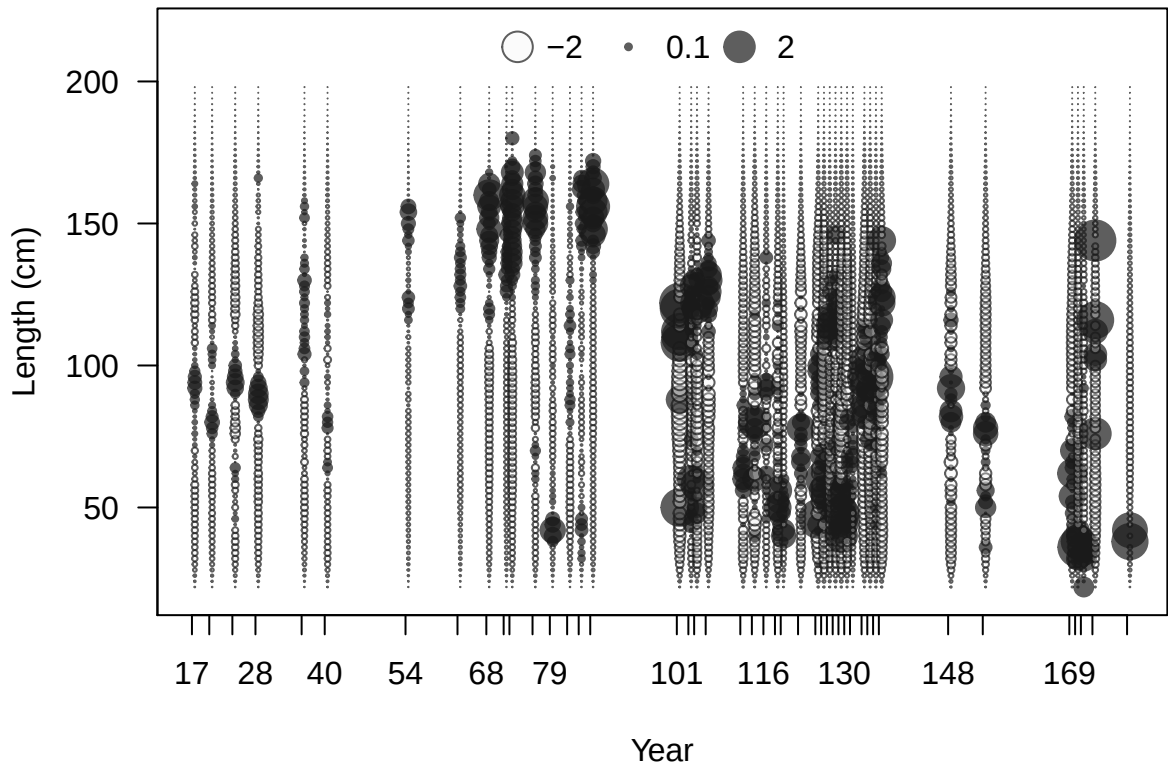
Proportion



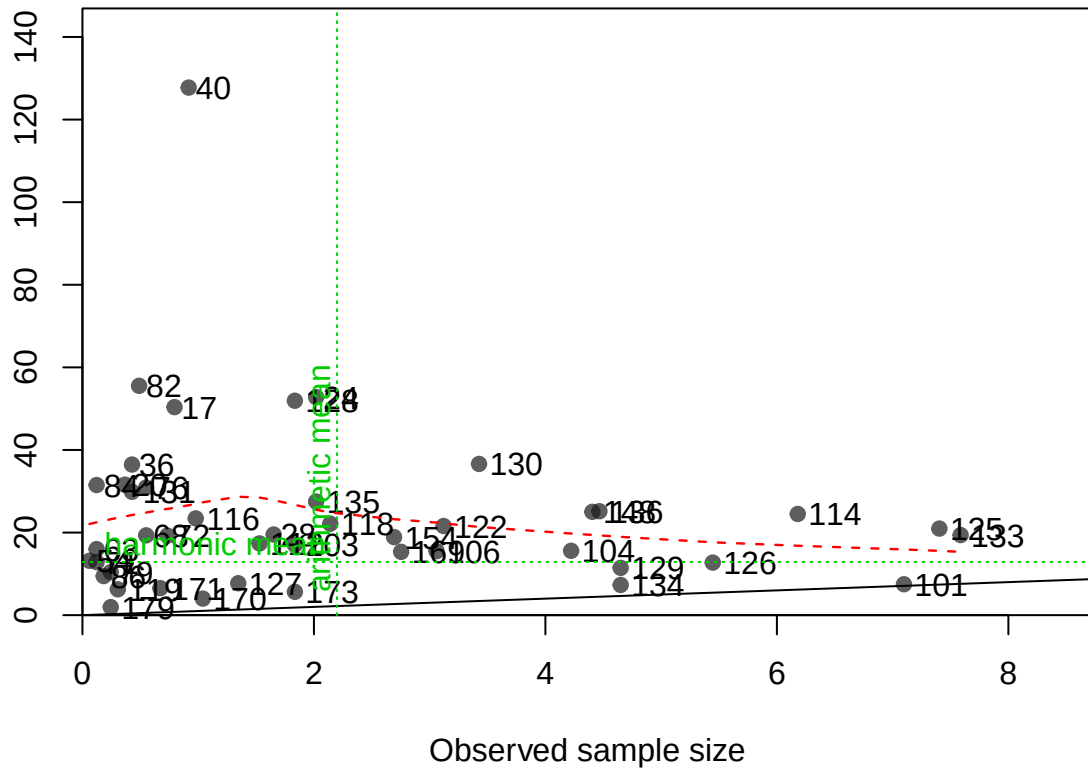


Proportion

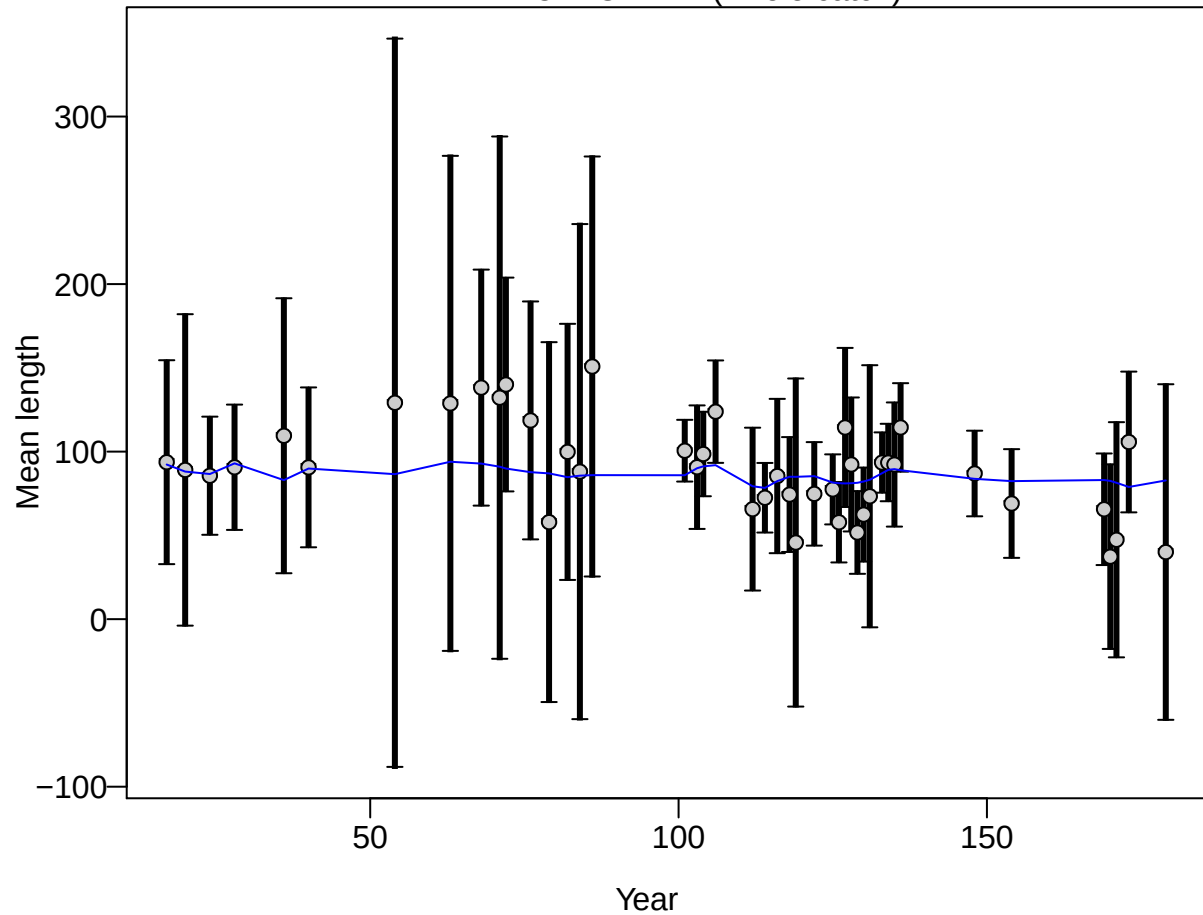




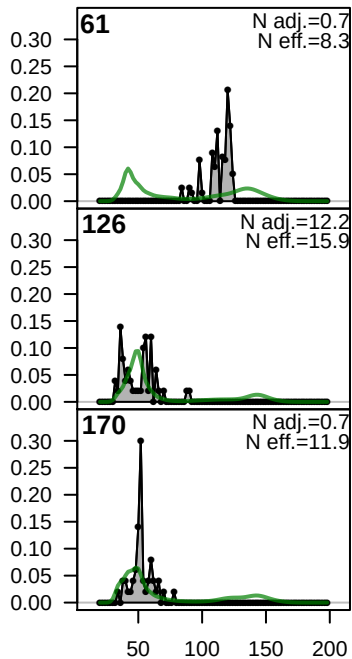
Effective sample size



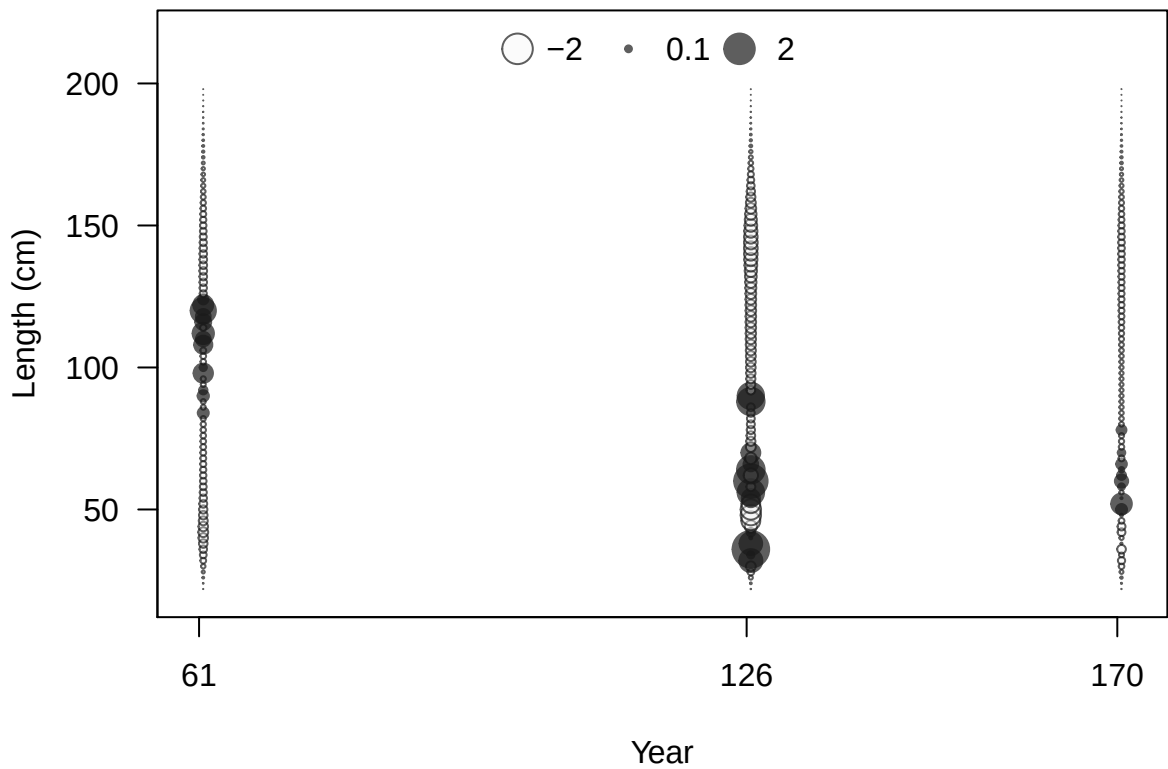
A3-NOADEL (whole catch)

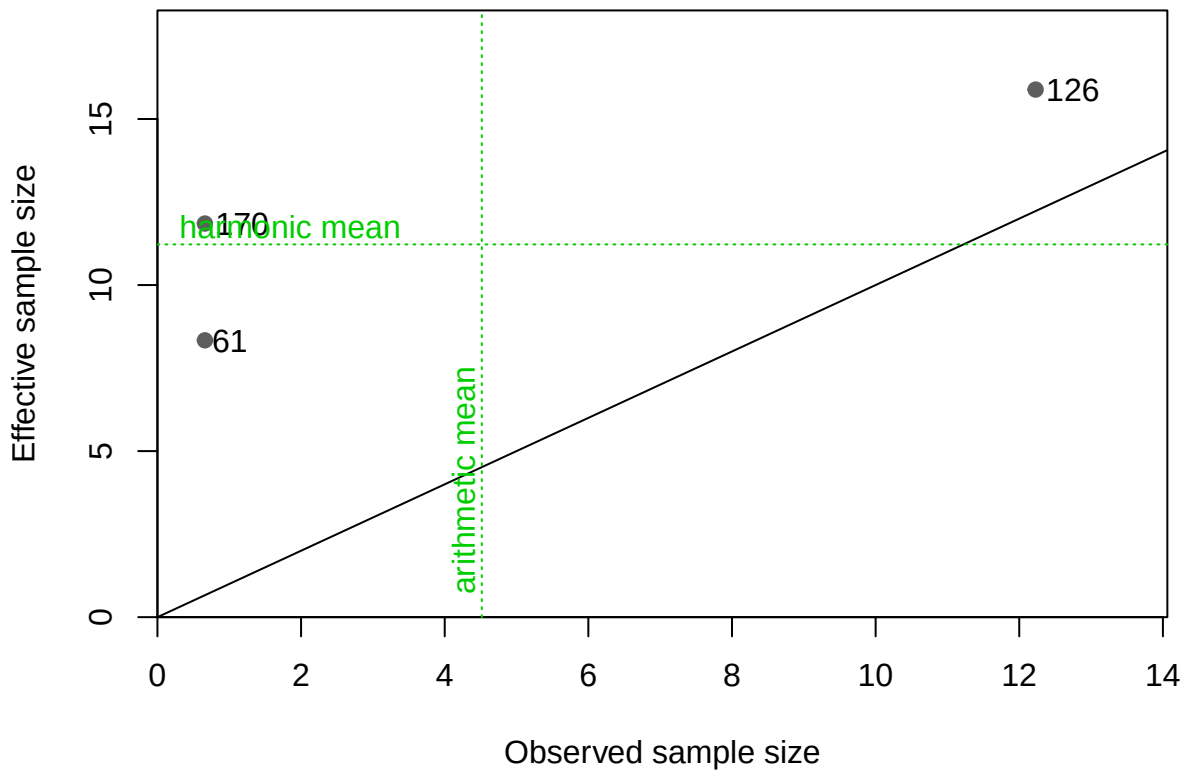


Proportion

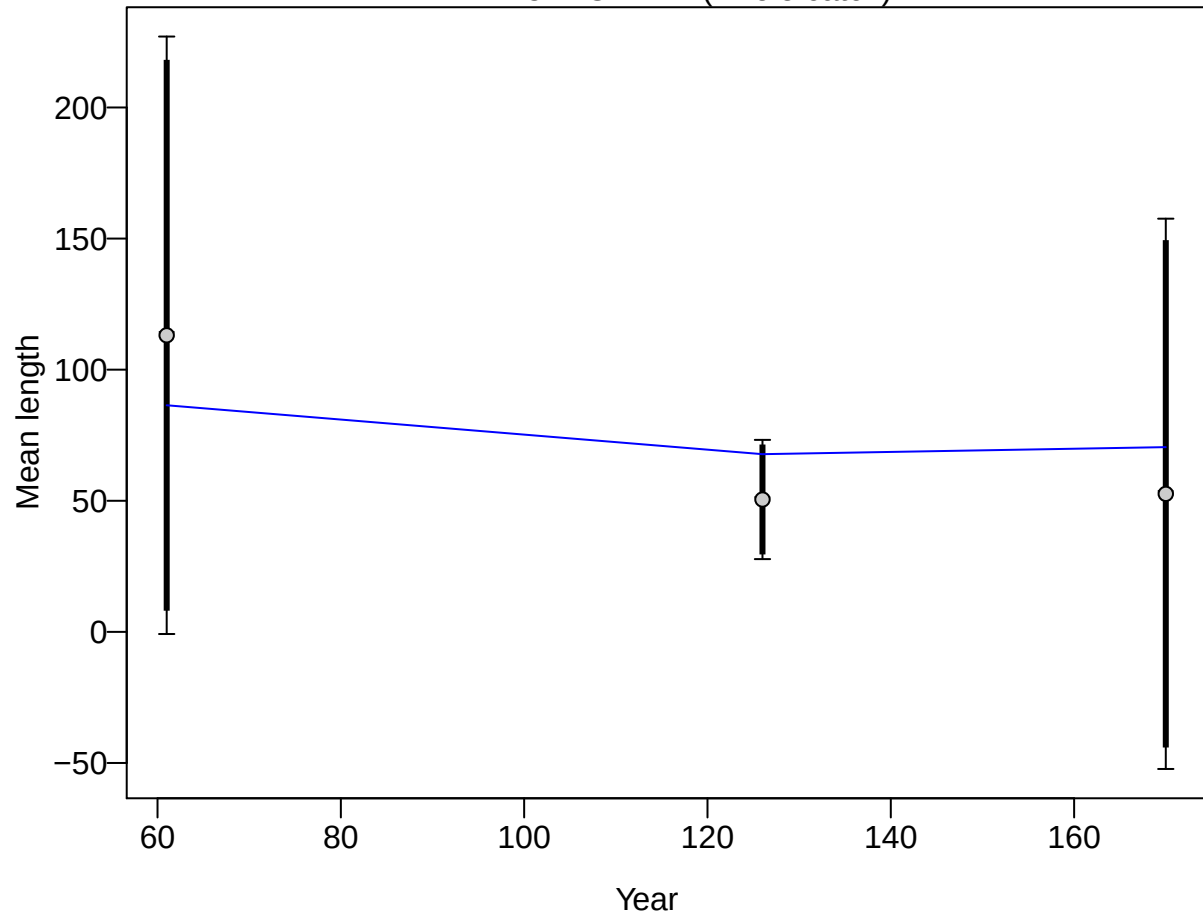


Length (cm)

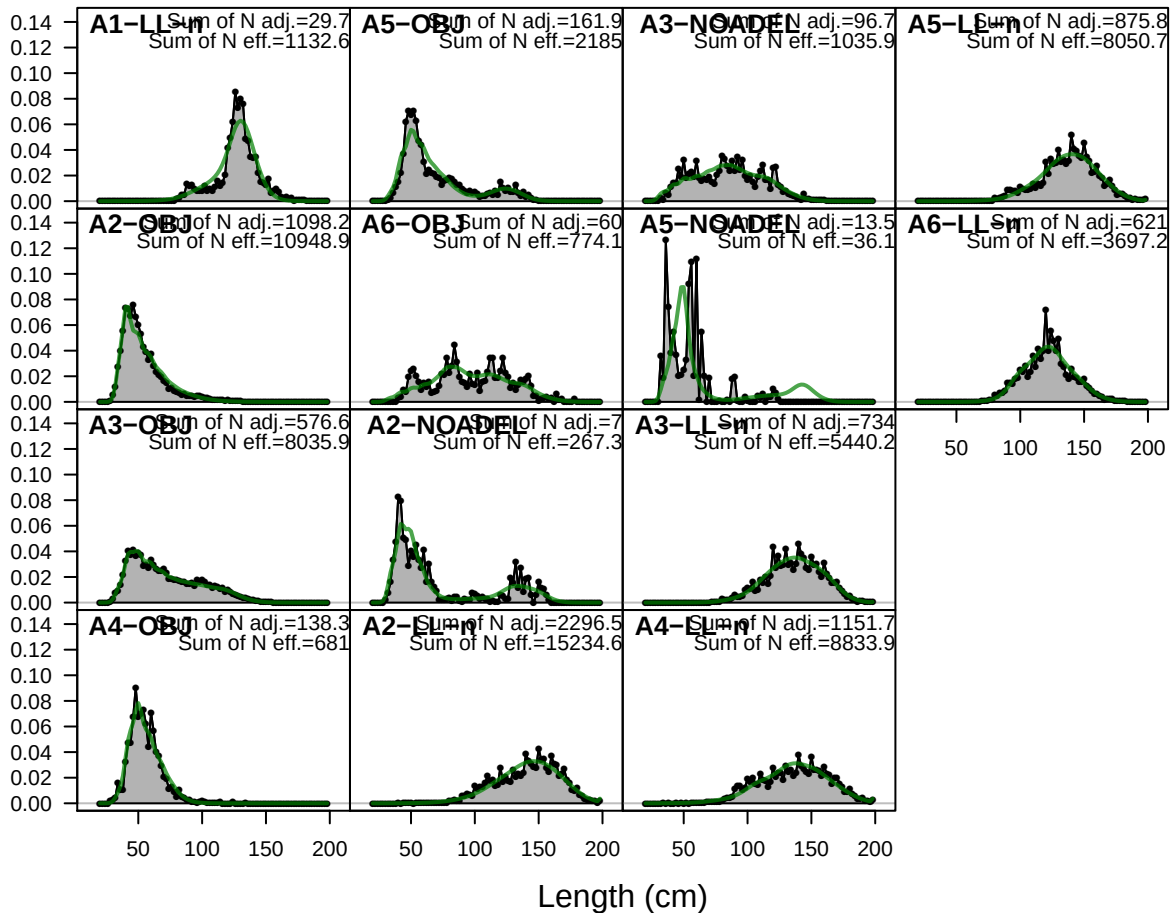


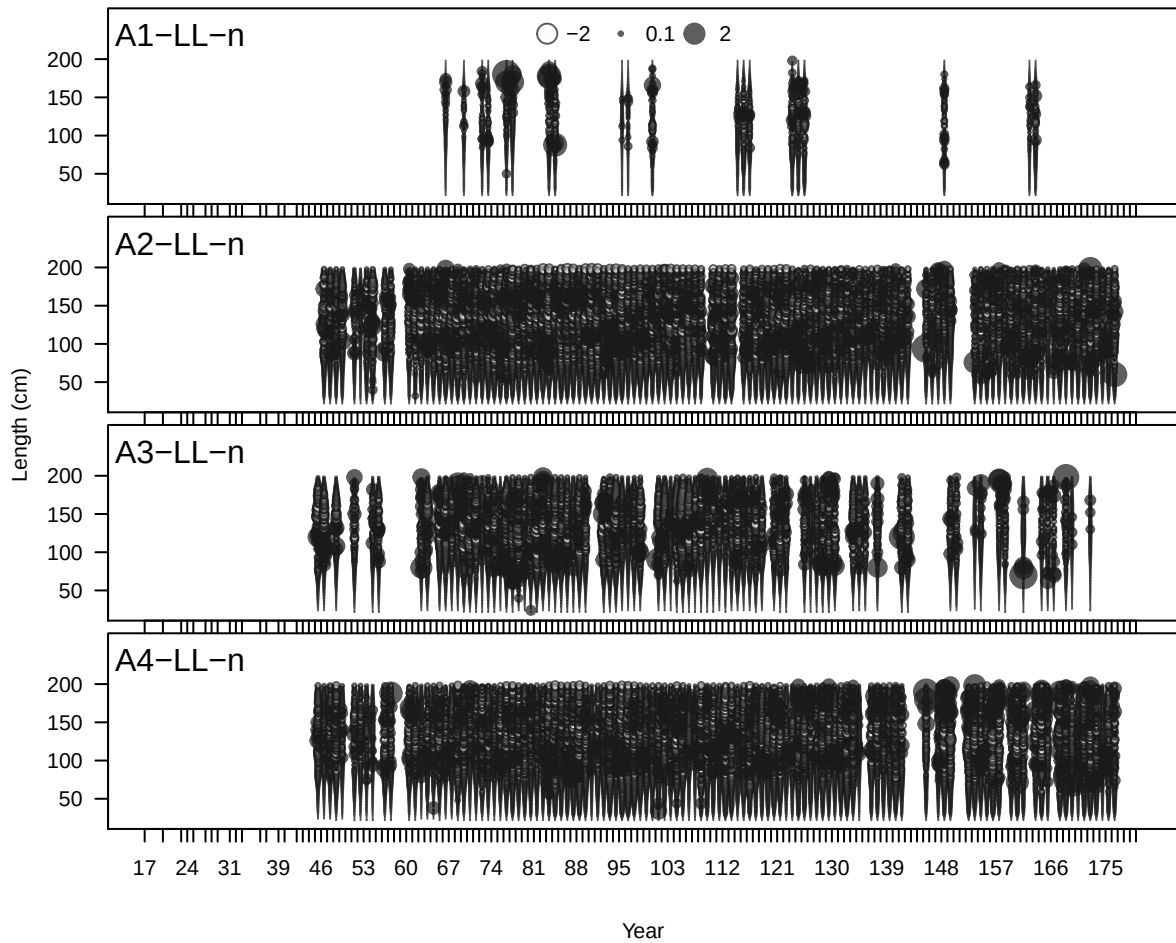


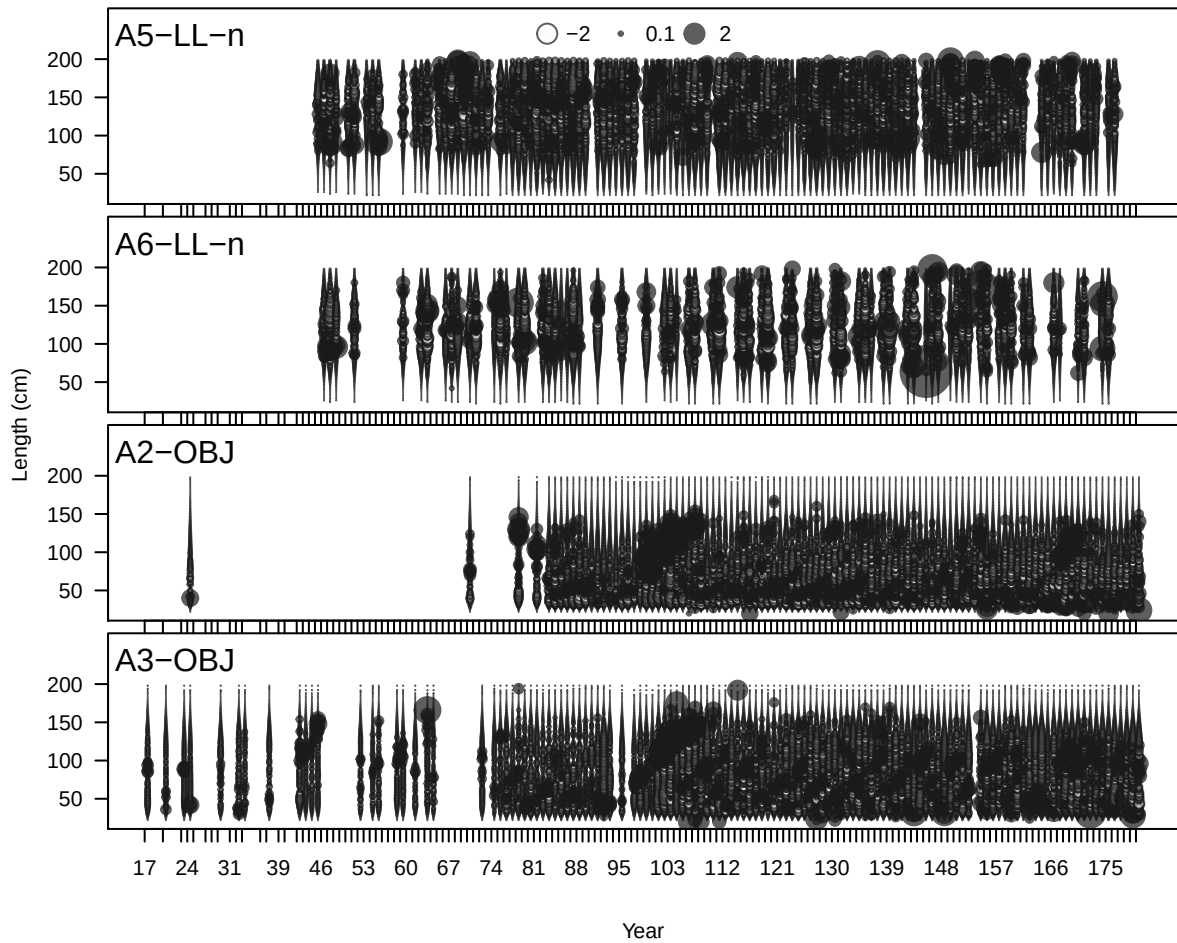
A5-NOADEL (whole catch)

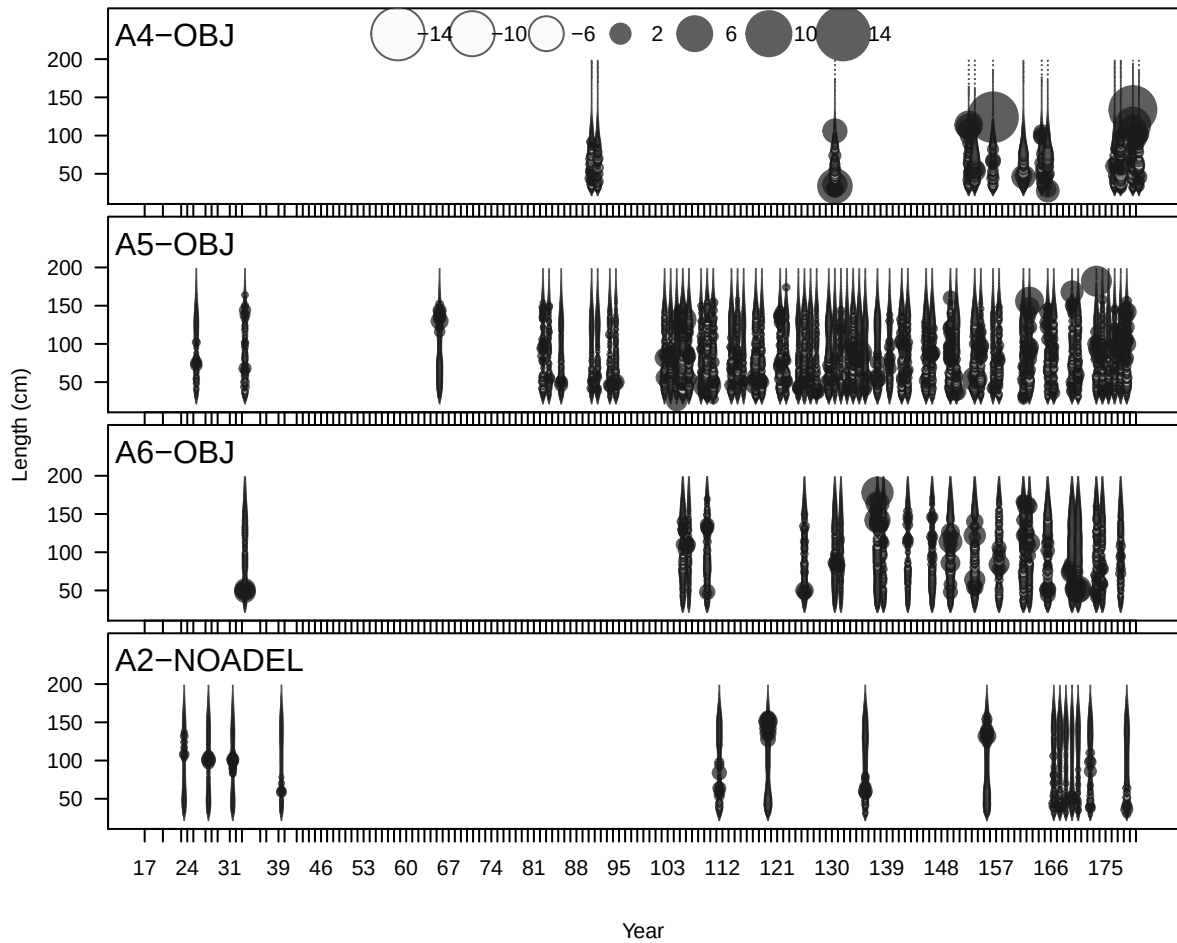


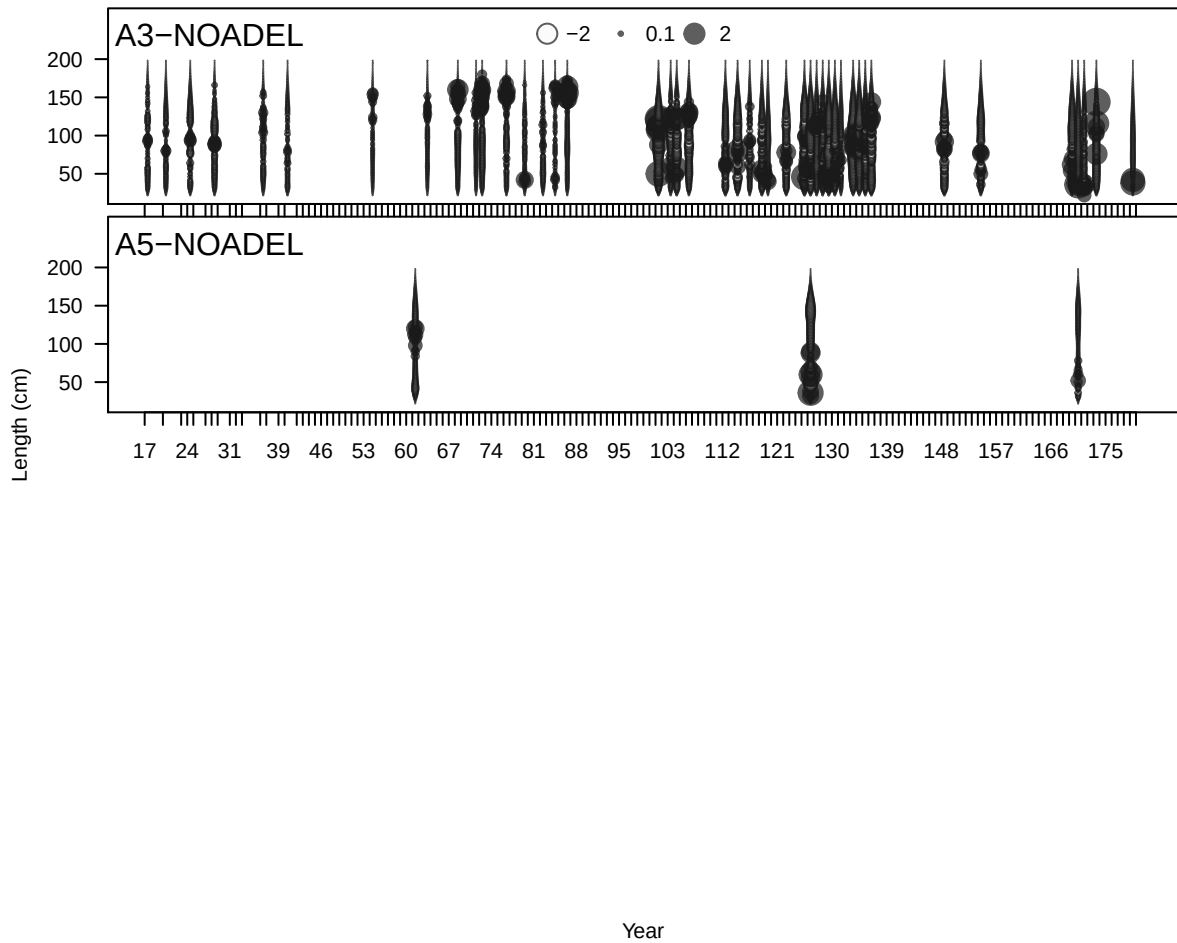
Proportion

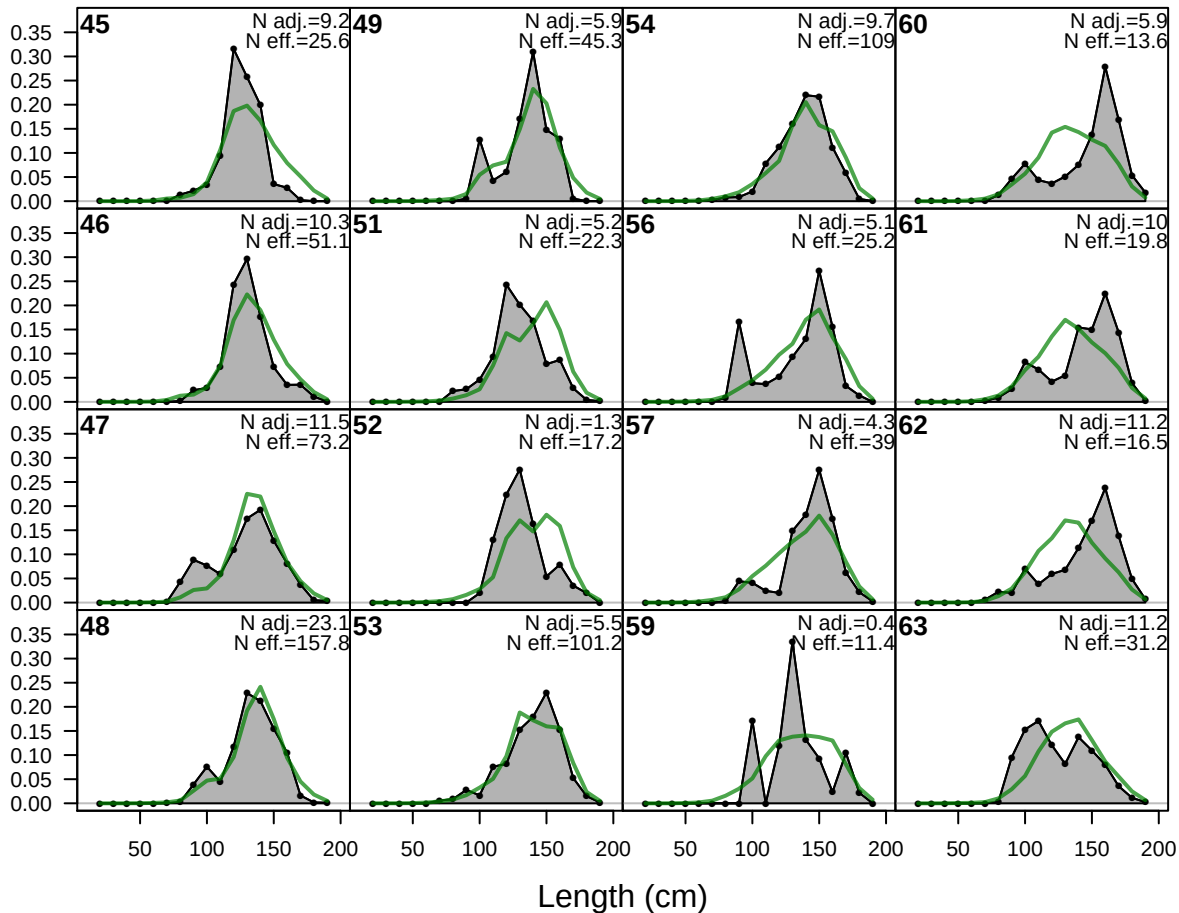




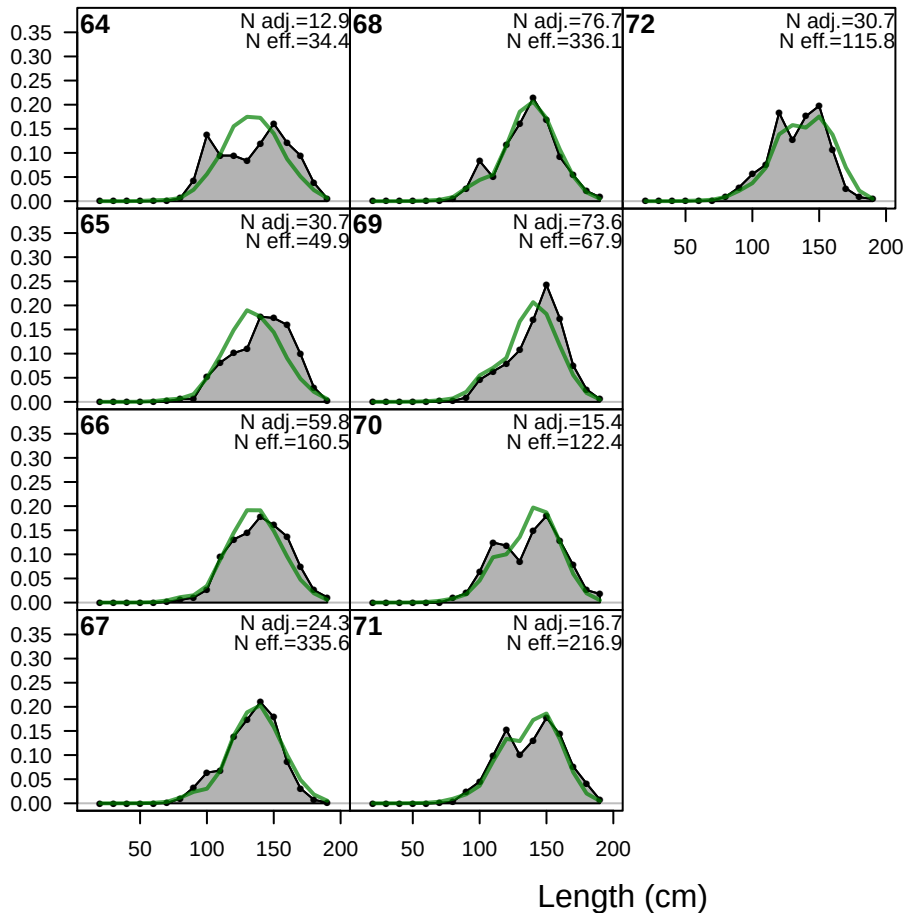


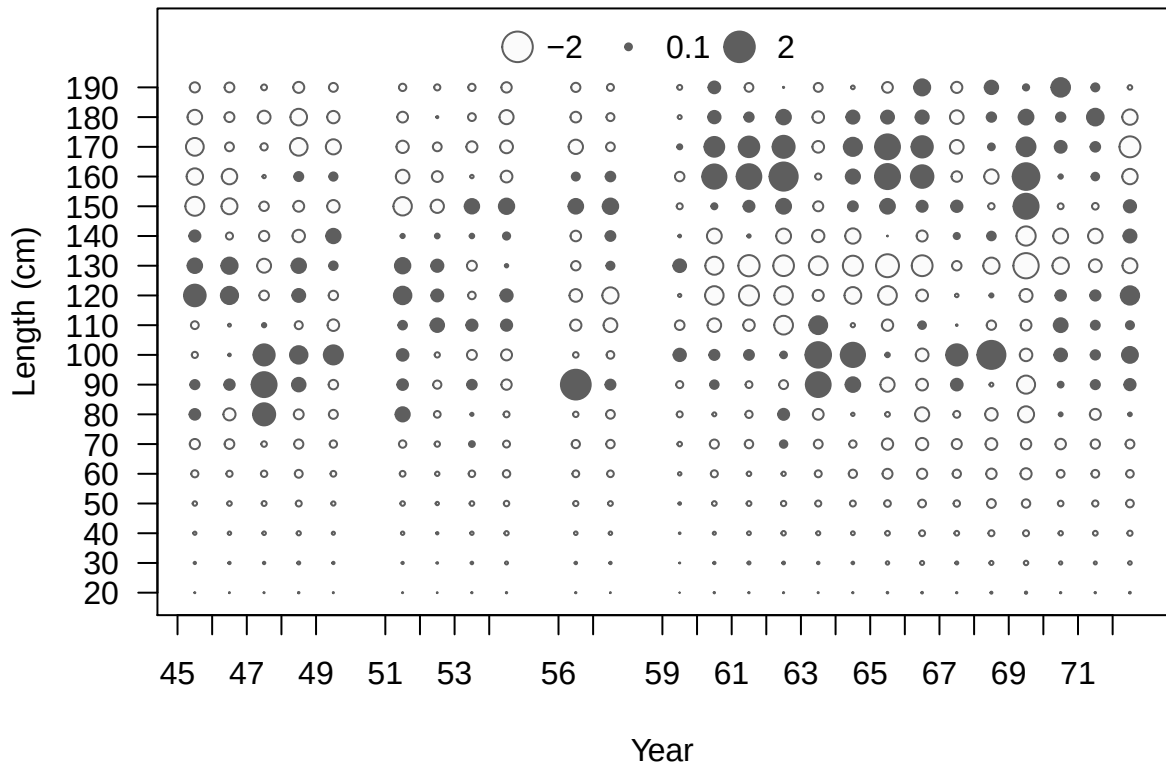


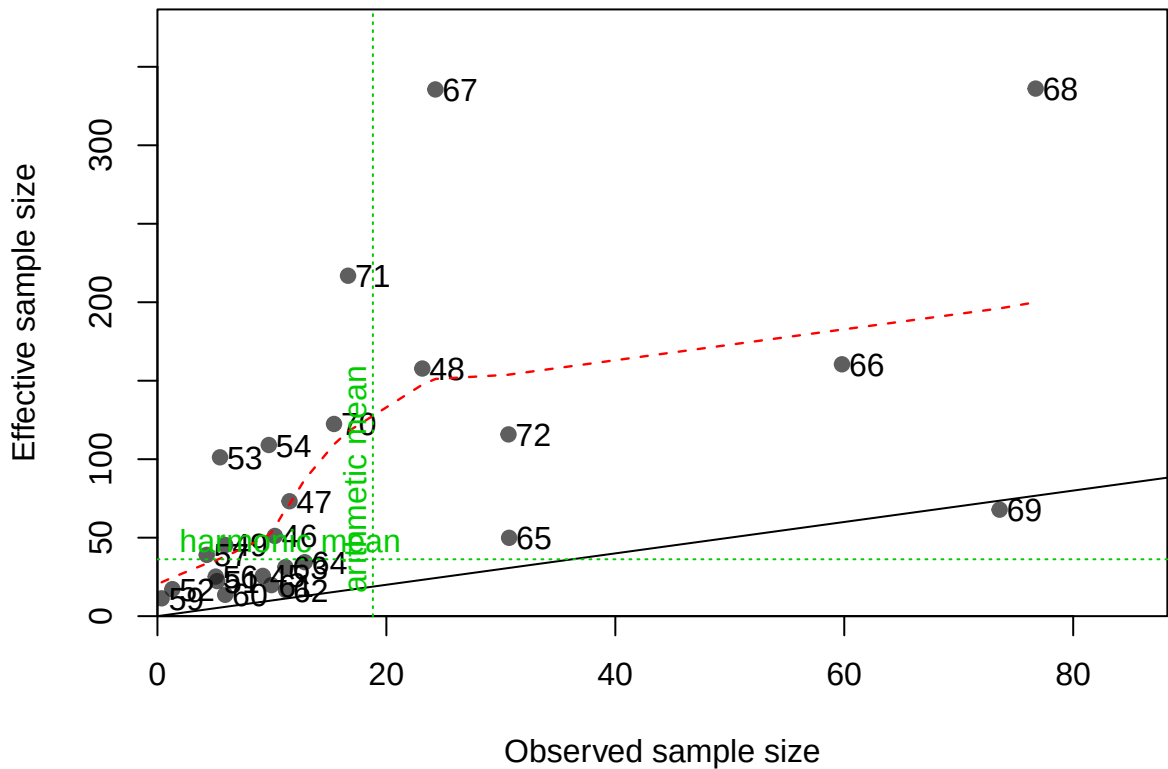




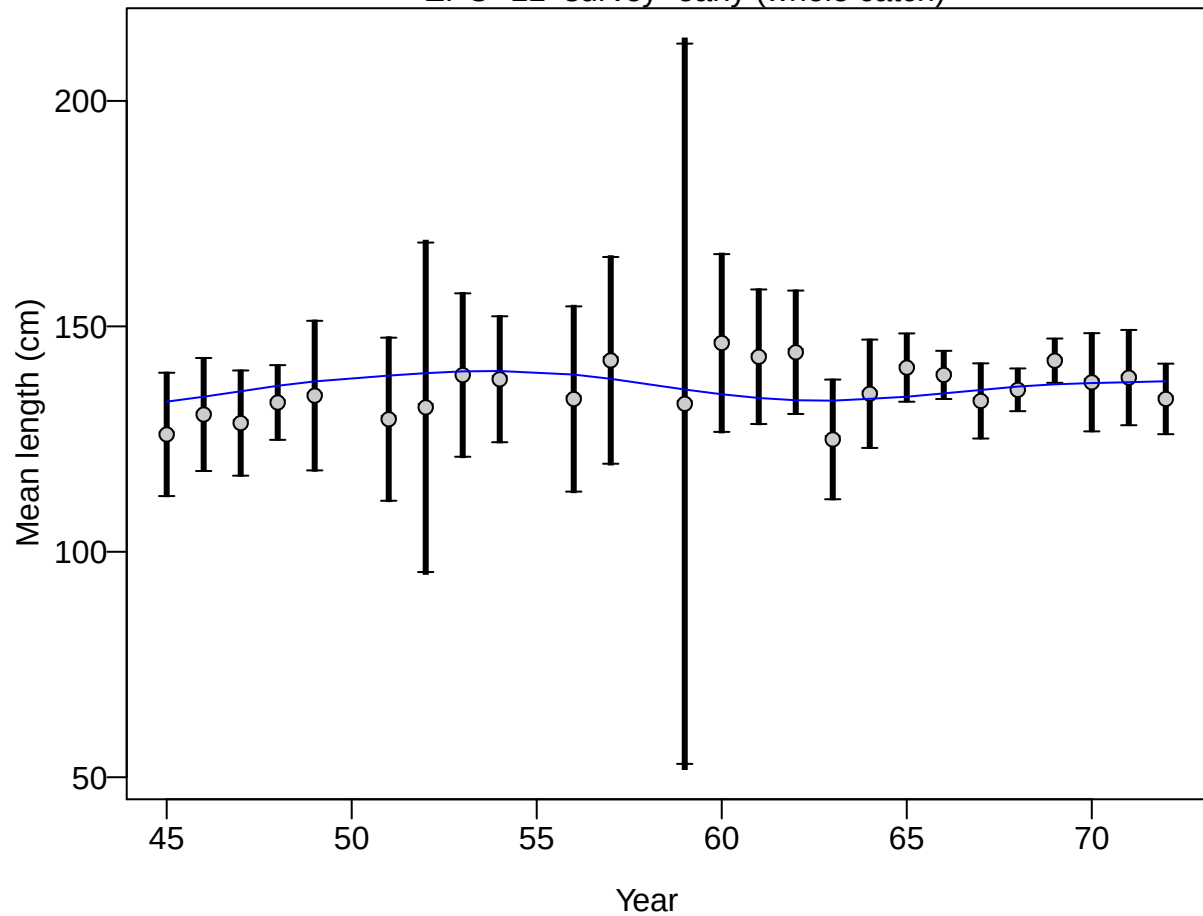
Proportion

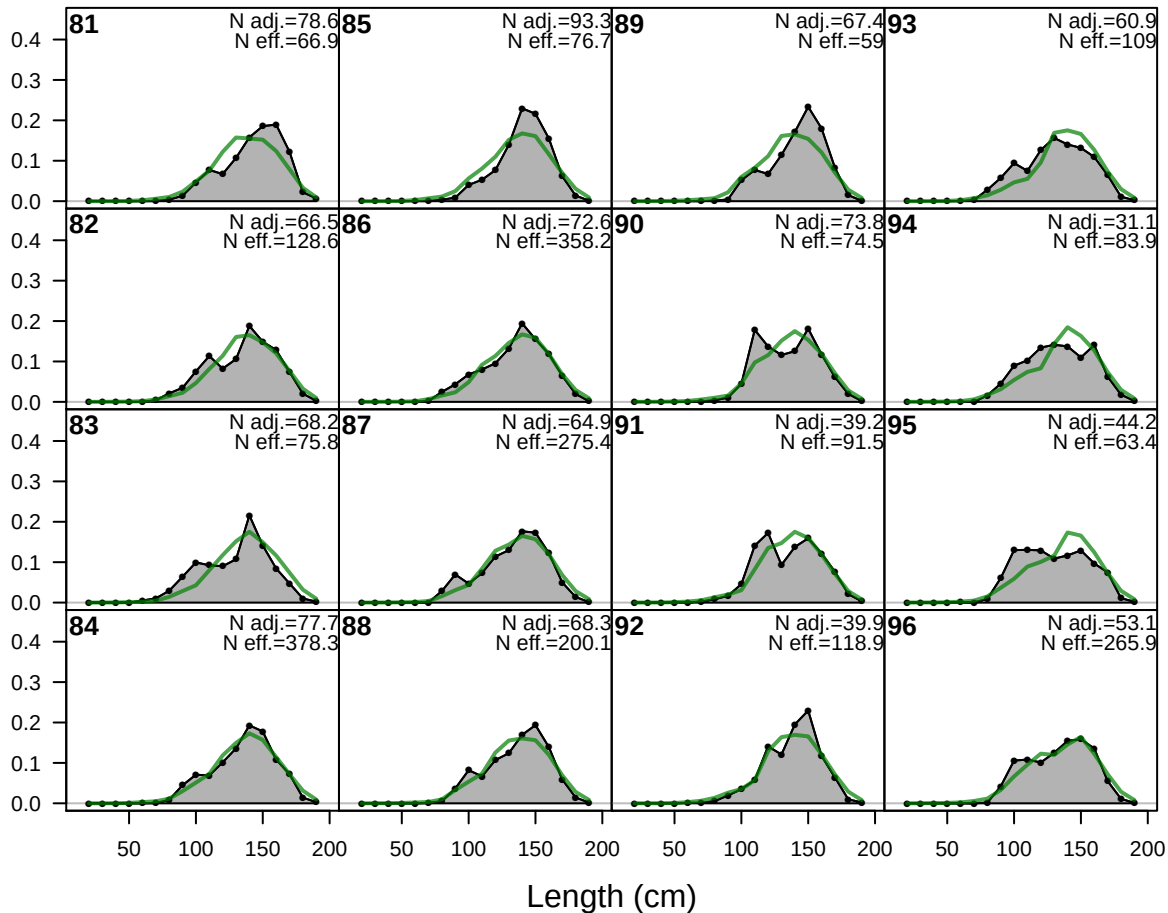


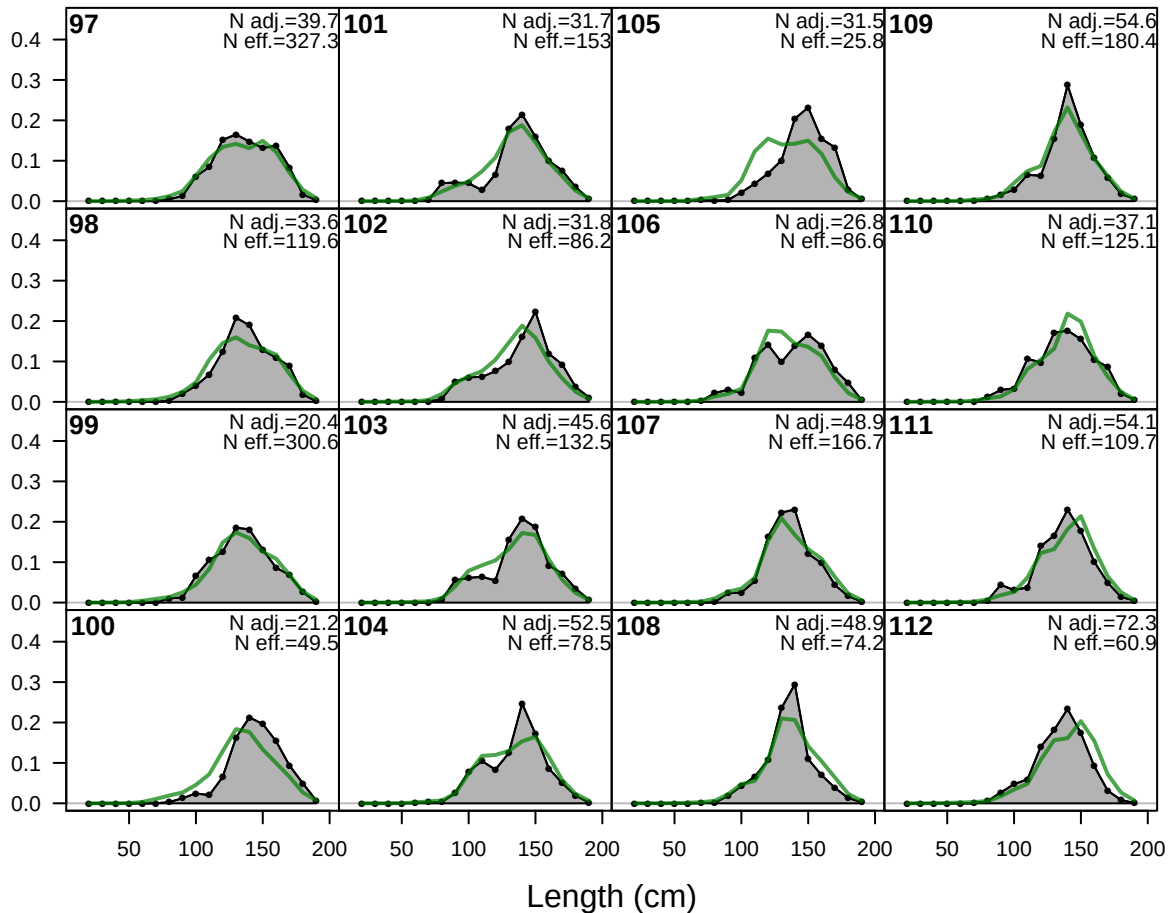


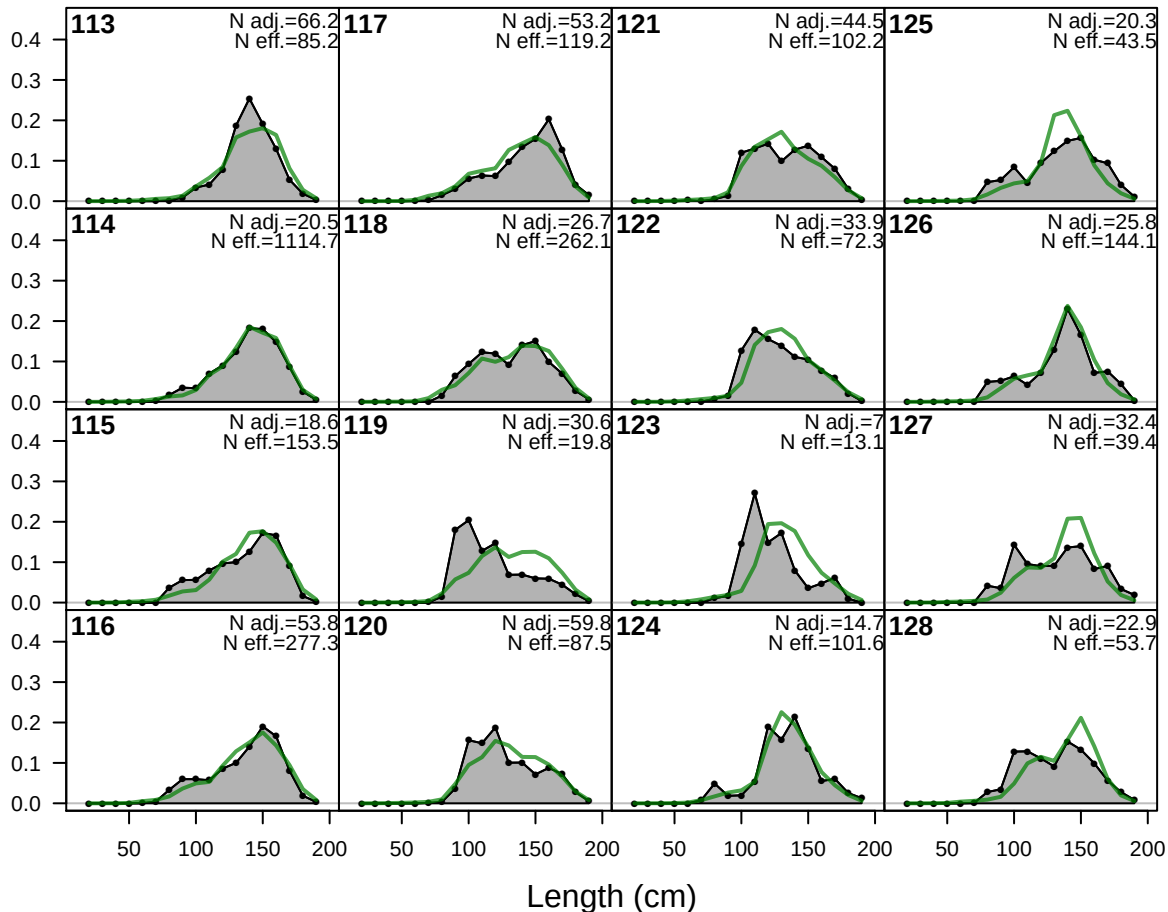


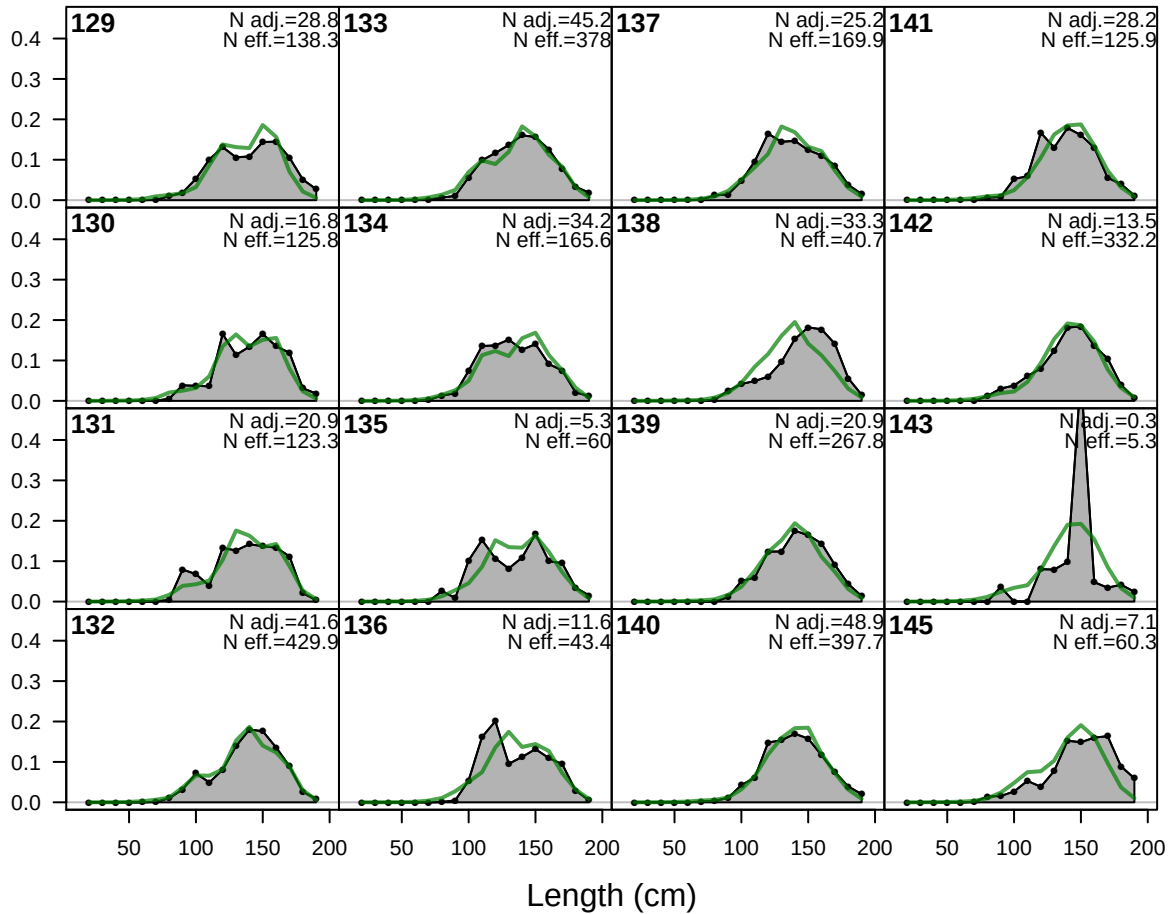
EPO-LL-survey-early (whole catch)

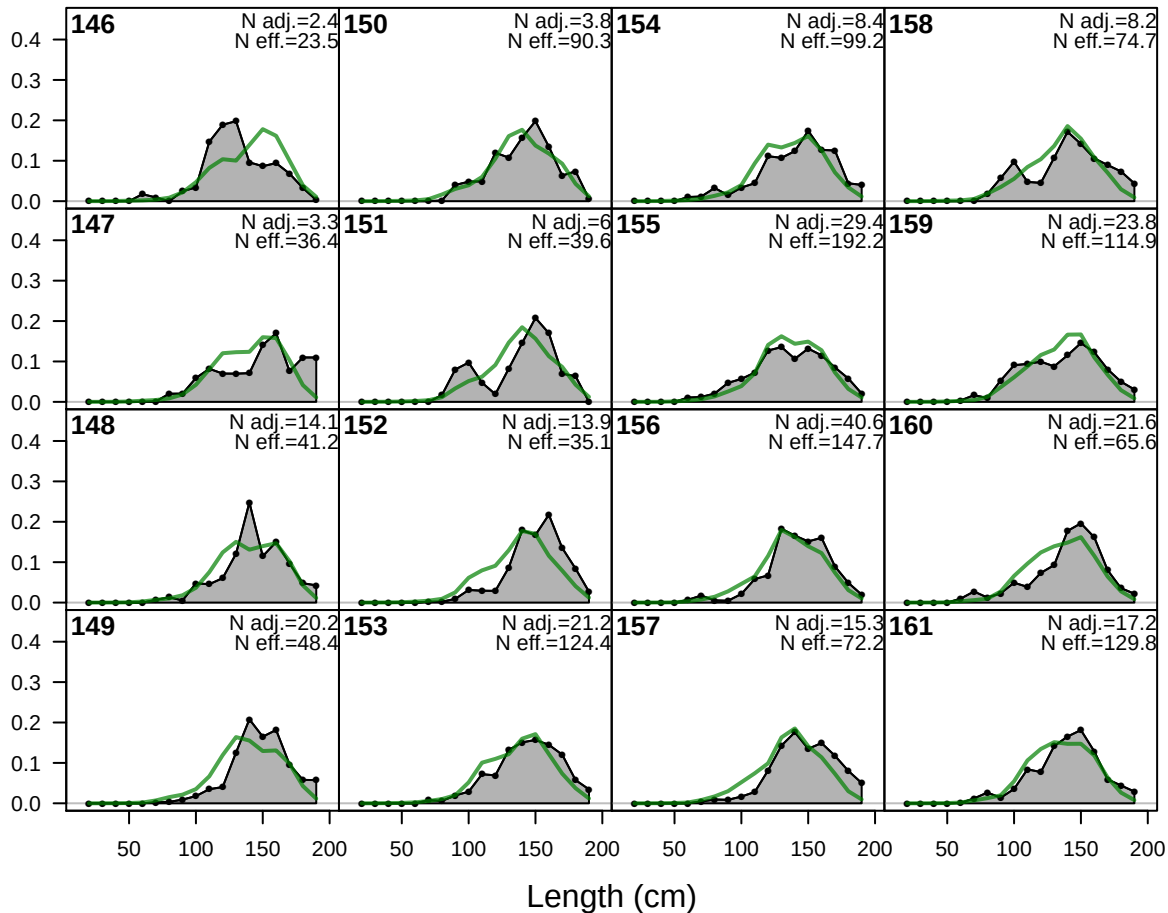


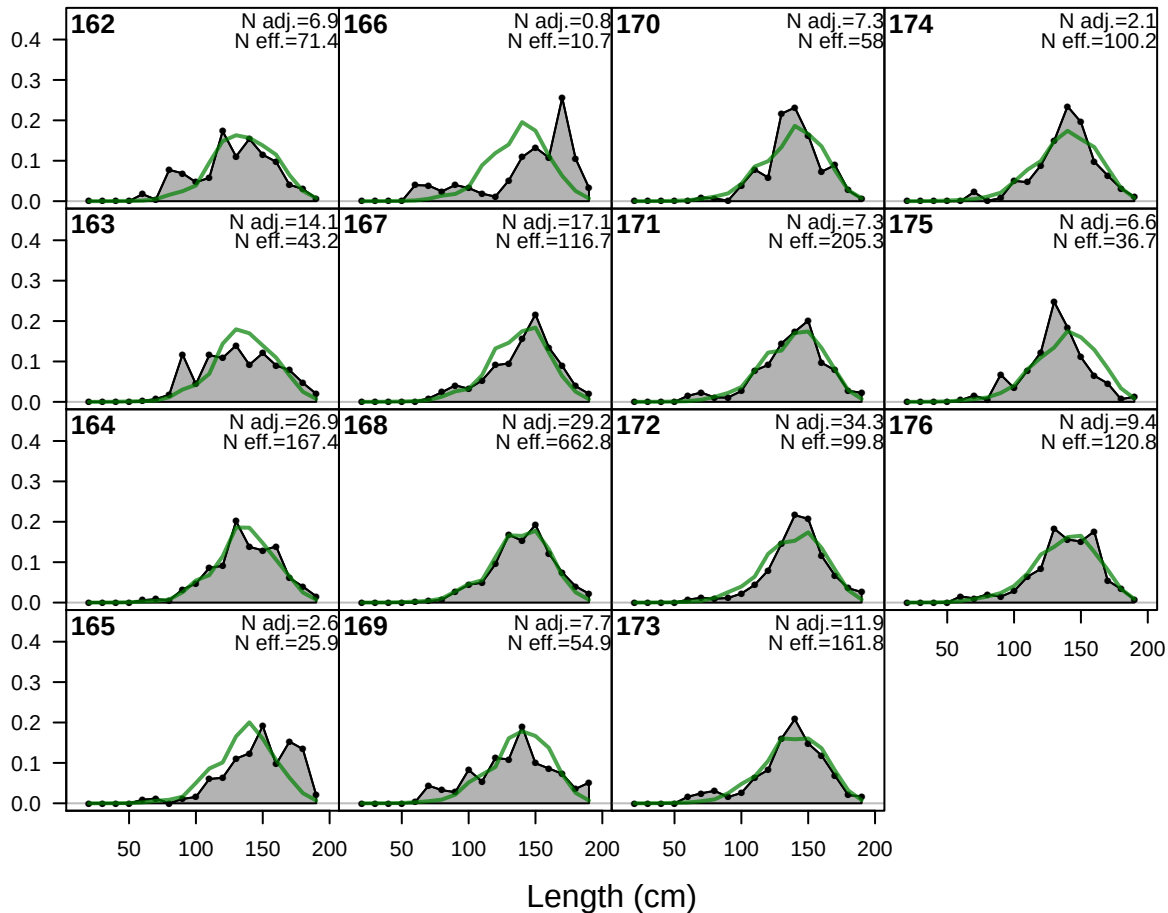


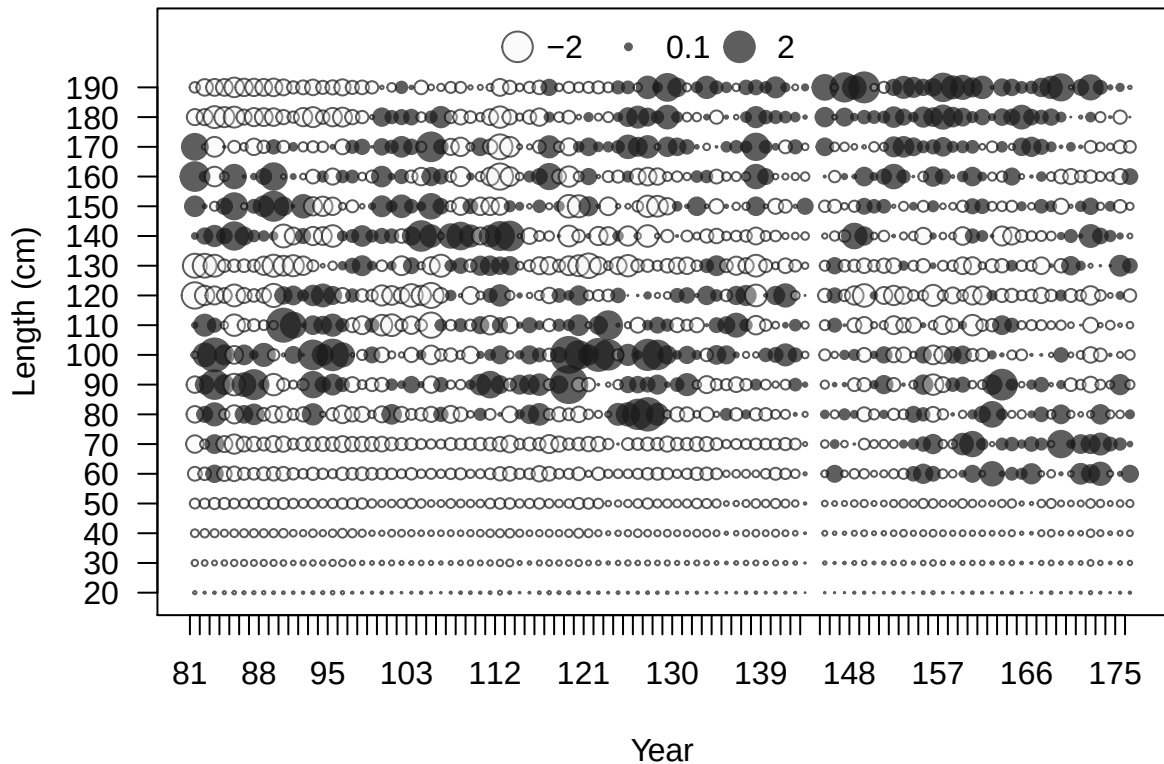




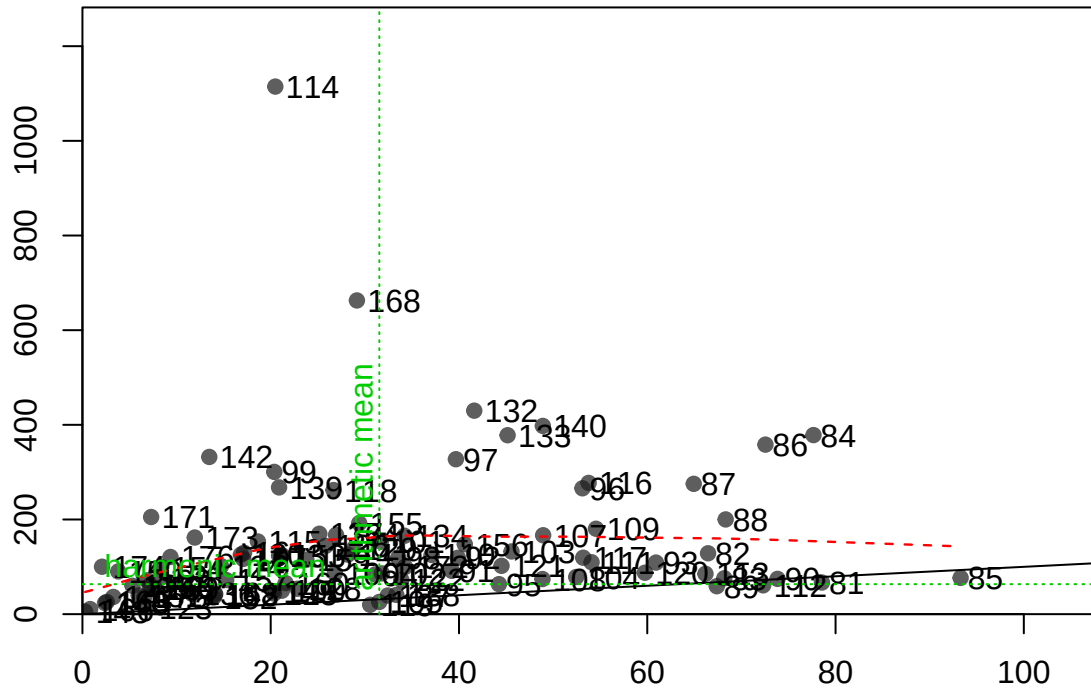






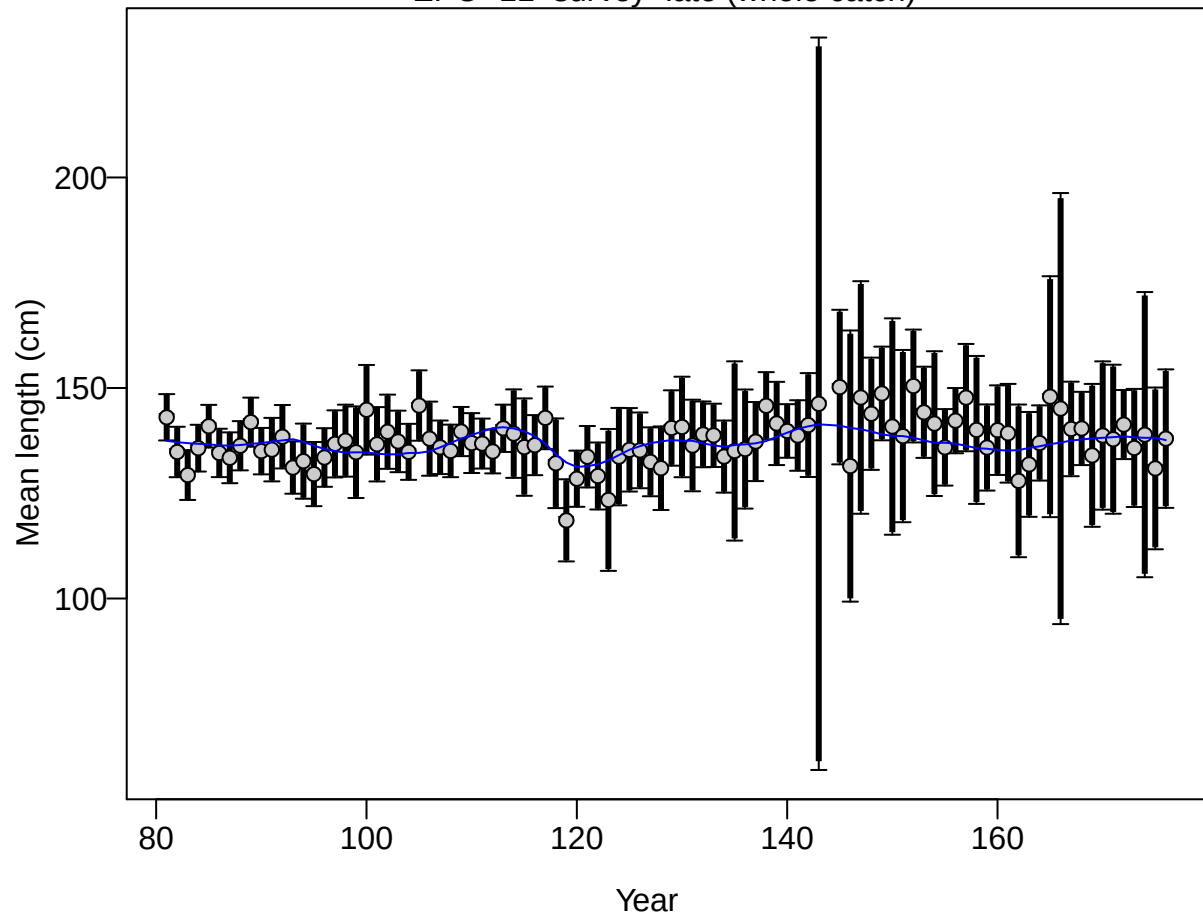


Effective sample size



Observed sample size

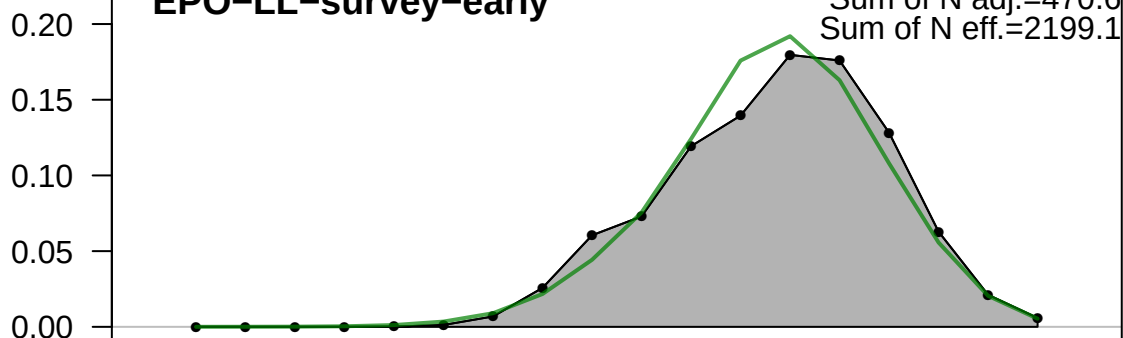
EPO-LL-survey-late (whole catch)



Proportion

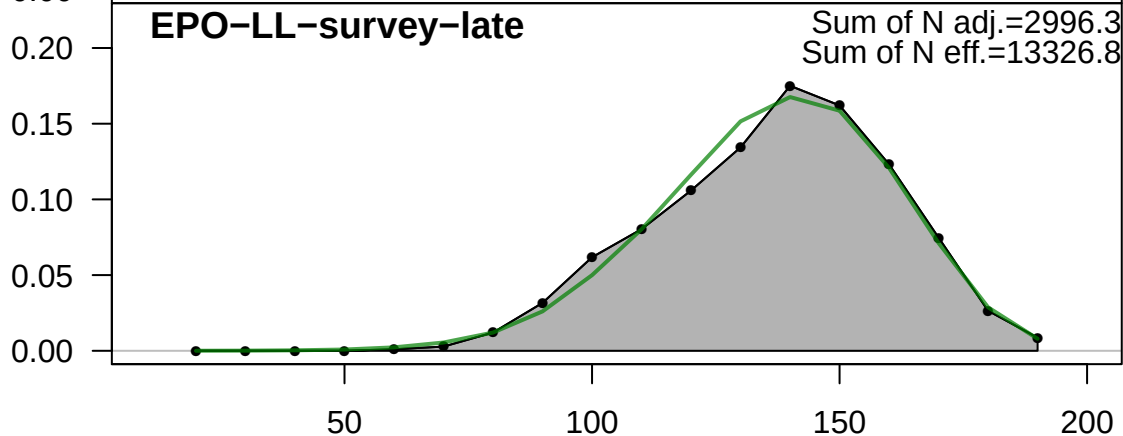
EPO-LL-survey-early

Sum of N adj.=470.6
Sum of N eff.=2199.1

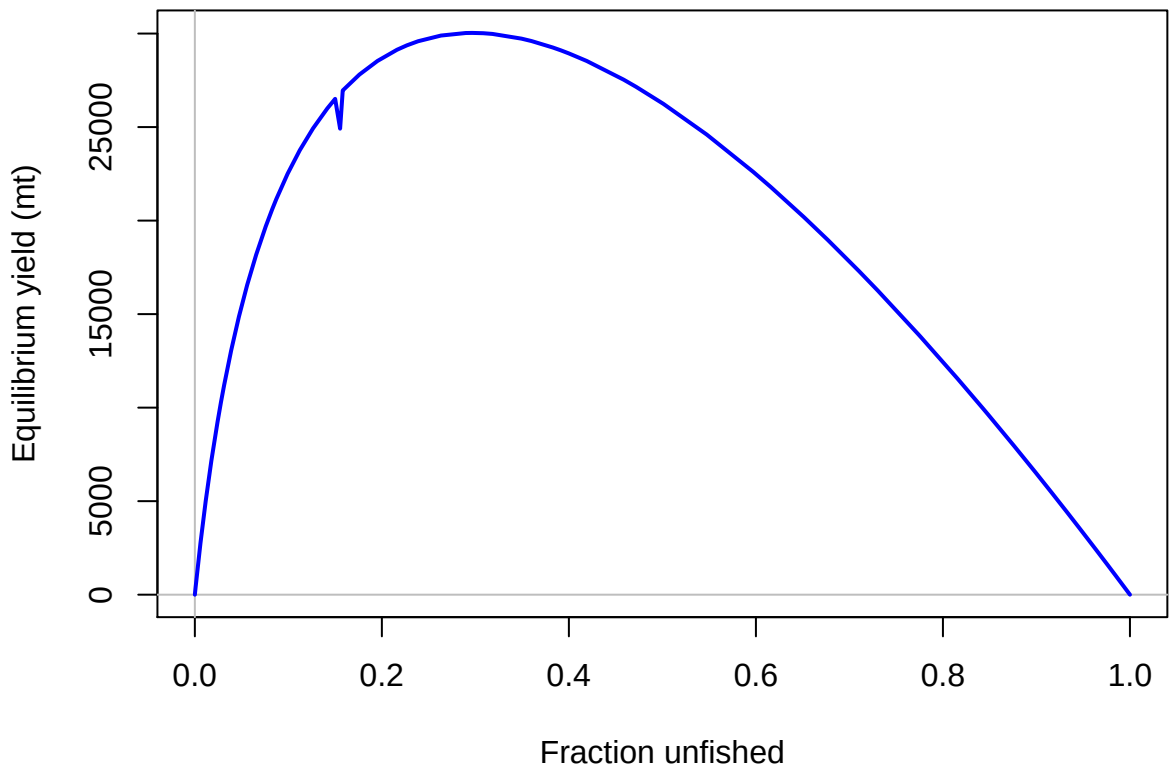


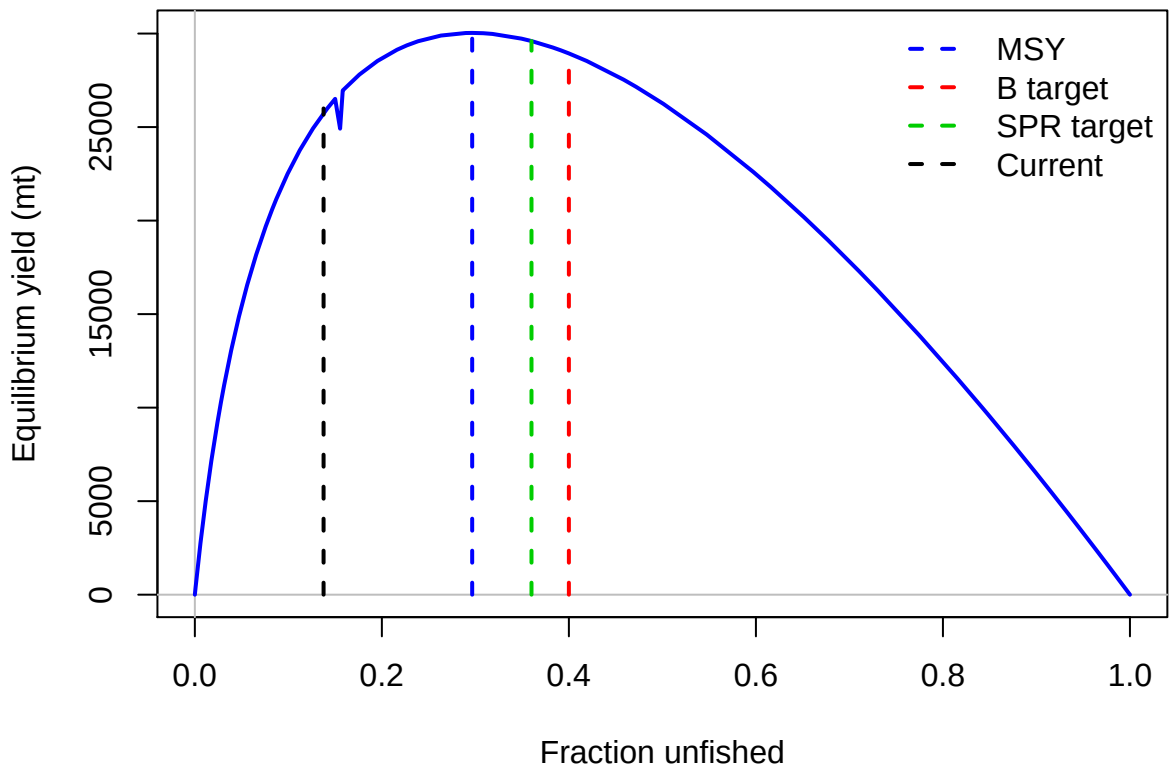
EPO-LL-survey-late

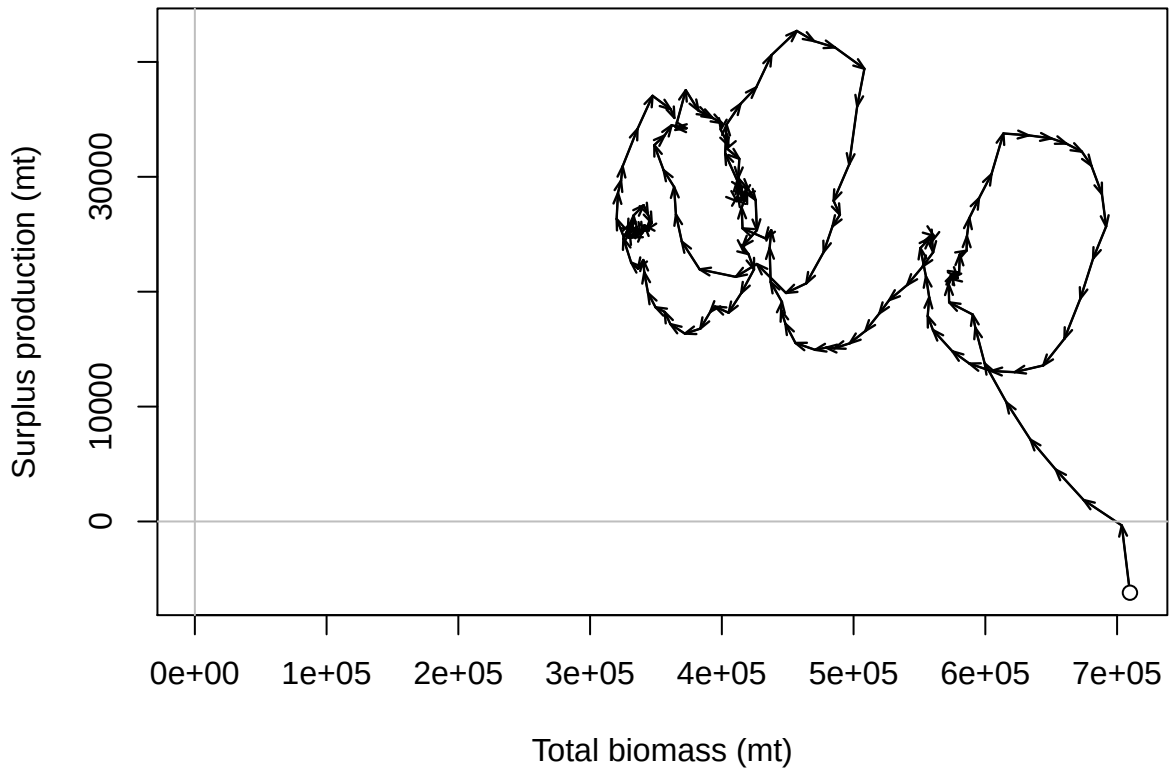
Sum of N adj.=2996.3
Sum of N eff.=13326.8

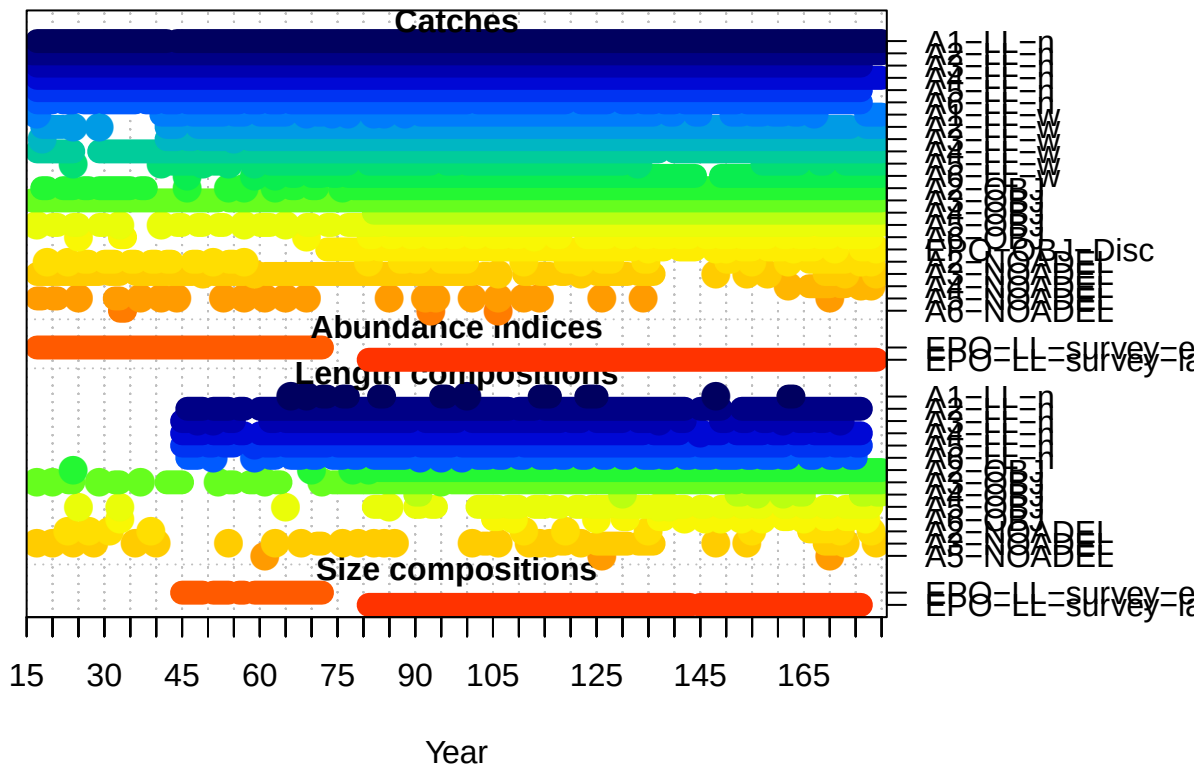


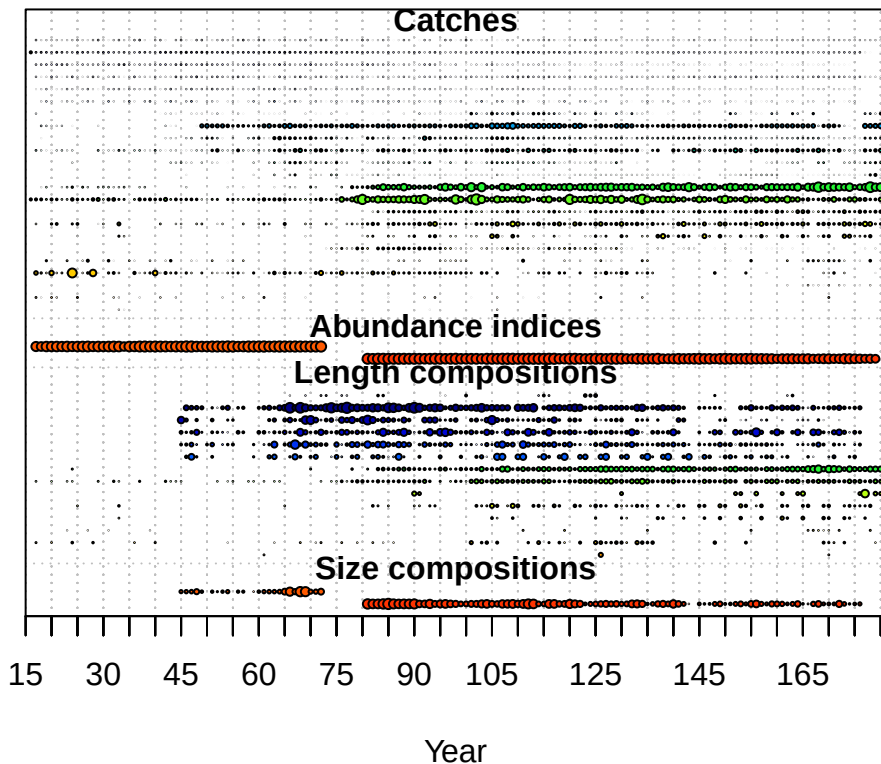
Length (cm)





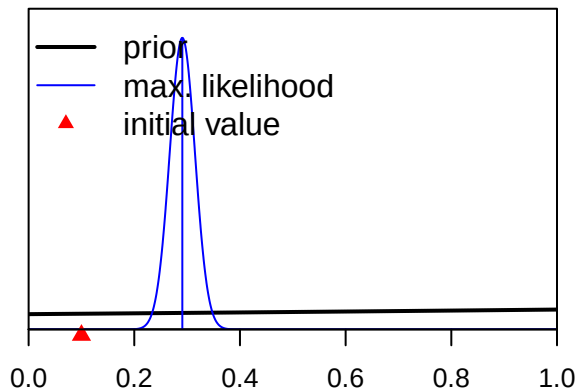




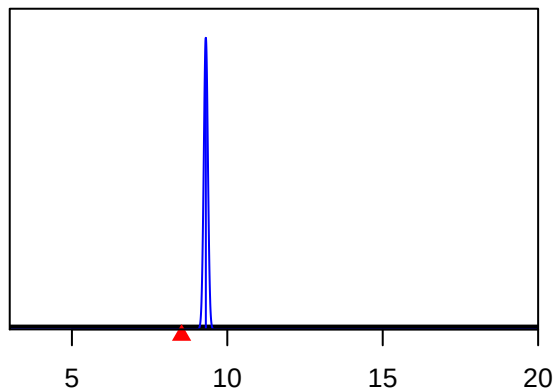


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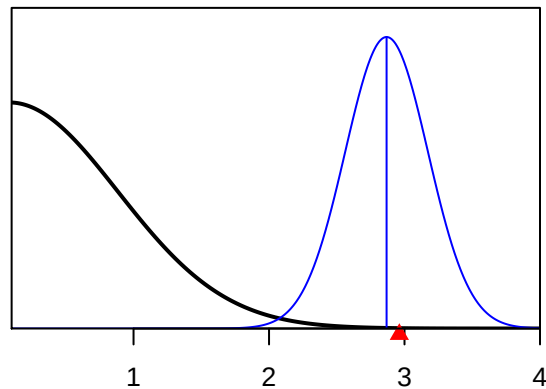
NatM_p_4_Fem_GP_1



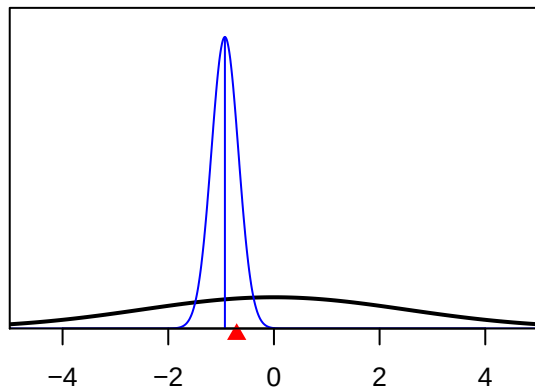
SR_LN(R0)



SD_young_Fem_GP_1

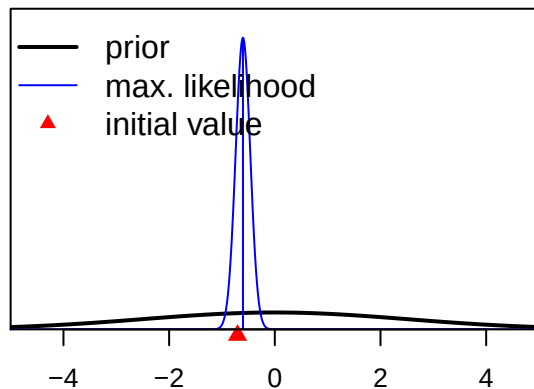


SR_regime_BLK1add_16

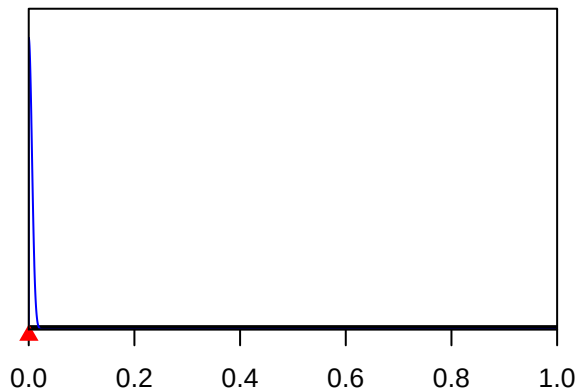


Parameter value

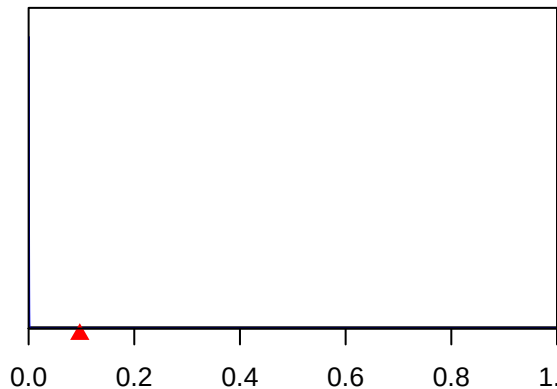
SR_regime_BLK1add_17



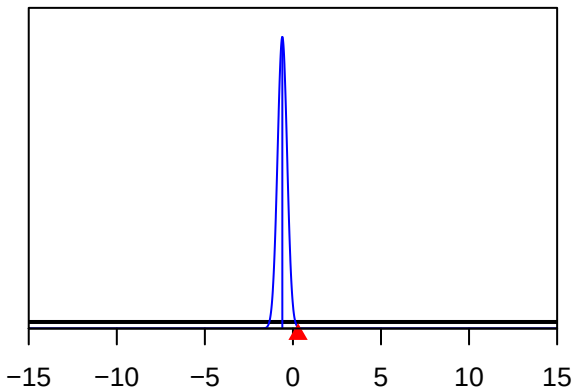
InitF_seas_1_flt_14A3-OBJ



InitF_seas_1_flt_2A2-LL-n

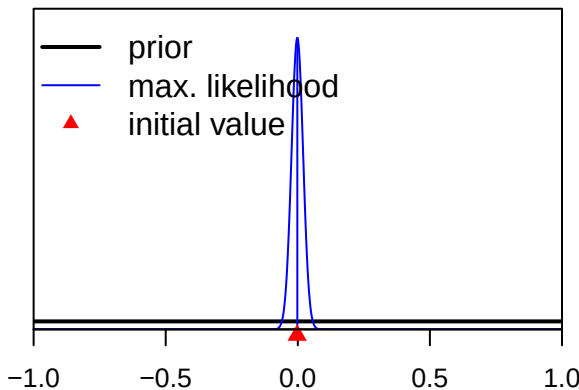


LnQ_base_EPO-LL-survey-early(24)

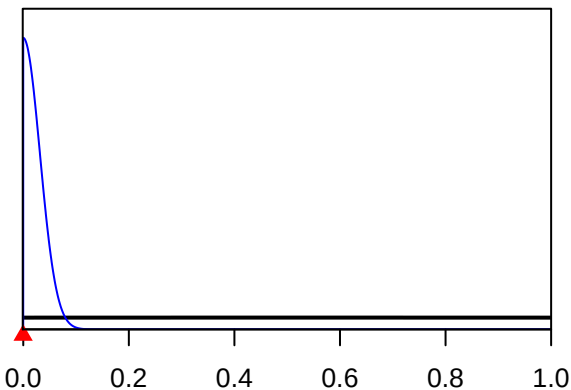


Parameter value

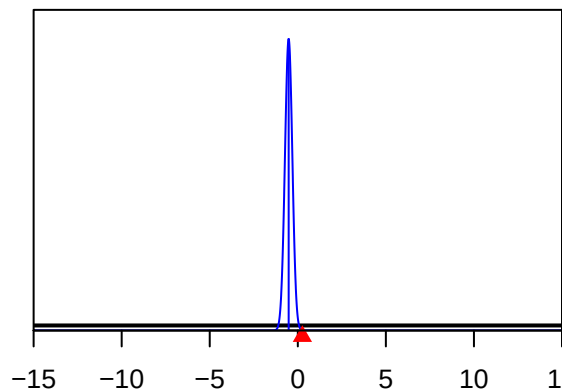
Q_extraSD_EPO-LL-survey-early(24)



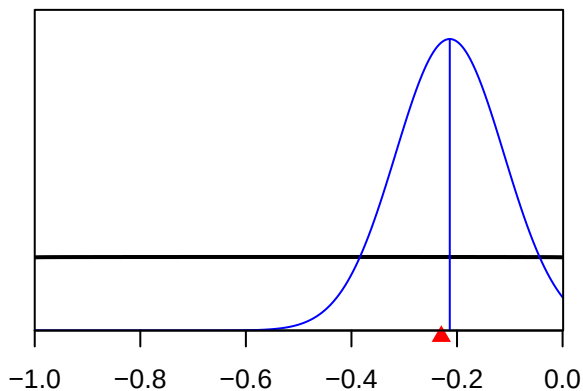
SizeSpline_GradLo_A1-LL-n(1)



LnQ_base_EPO-LL-survey-late(25)

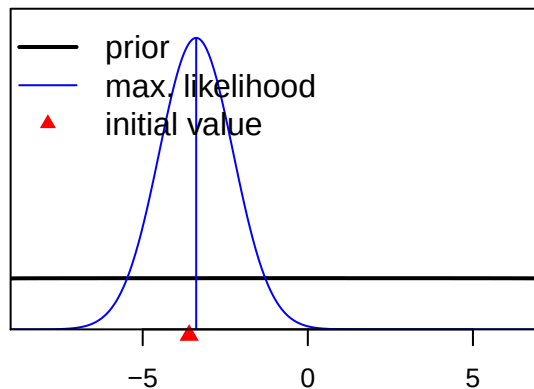


SizeSpline_GradHi_A1-LL-n(1)

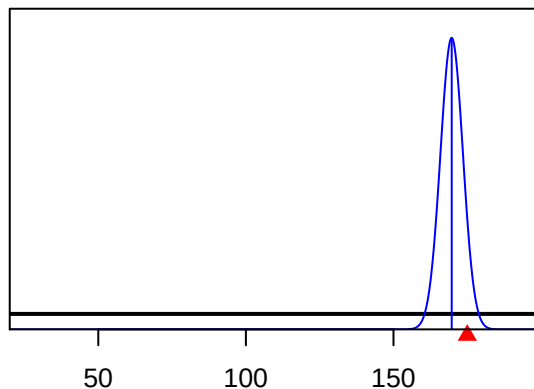


Parameter value

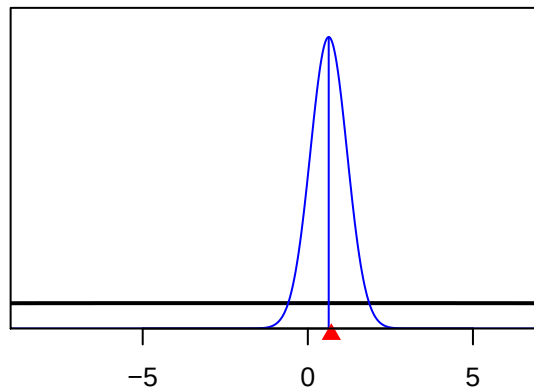
SizeSpline_Val_2_A1-LL-n(1)



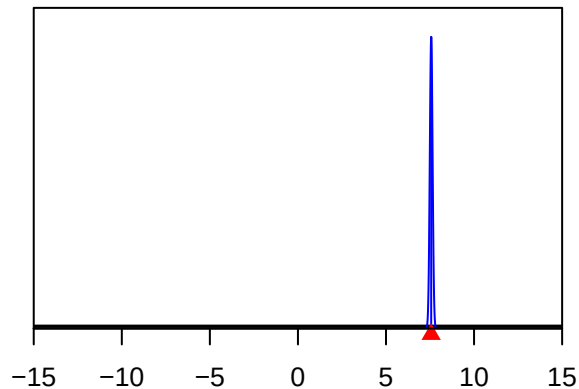
Size_DblN_peak_A2-LL-n(2)



SizeSpline_Val_4_A1-LL-n(1)

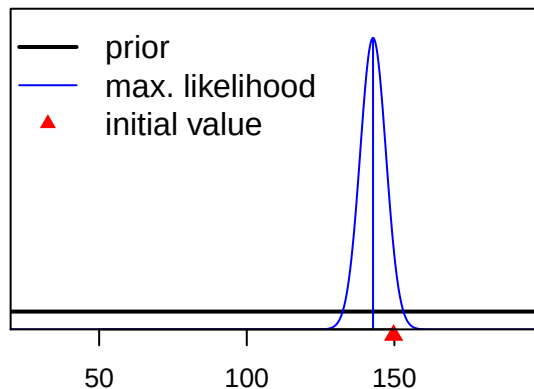


Size_DblN_ascend_se_A2-LL-n(2)

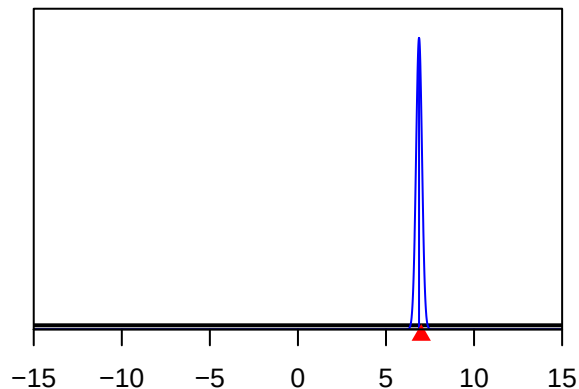


Parameter value

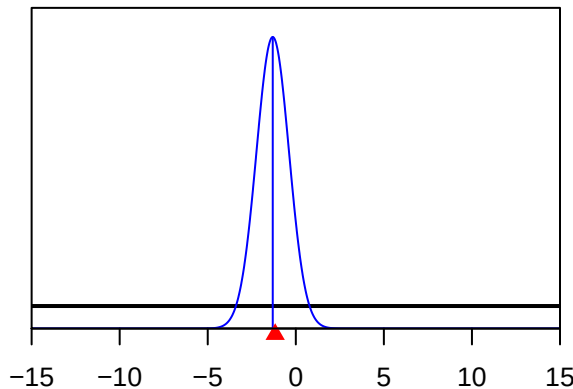
Size_DbIN_peak_A3-LL-n(3)



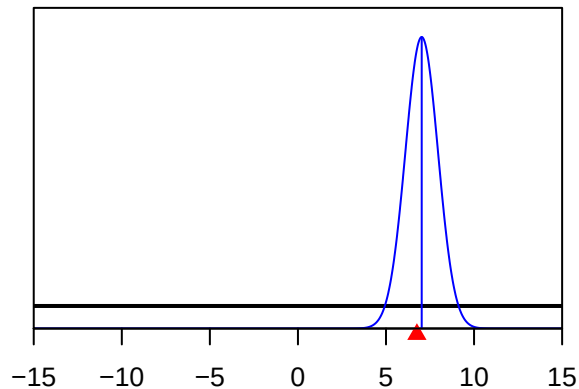
Size_DbIN_ascend_se_A3-LL-n(3)



Size_DbIN_top_logit_A3-LL-n(3)

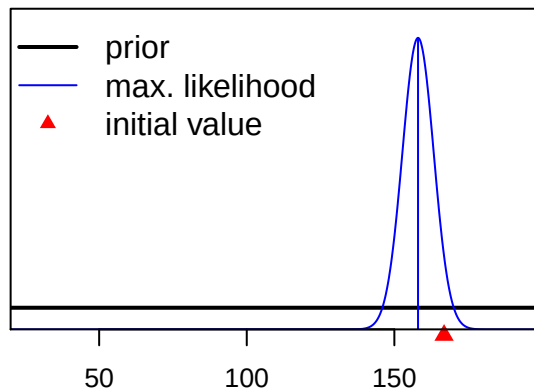


Size_DbIN_descend_se_A3-LL-n(3)

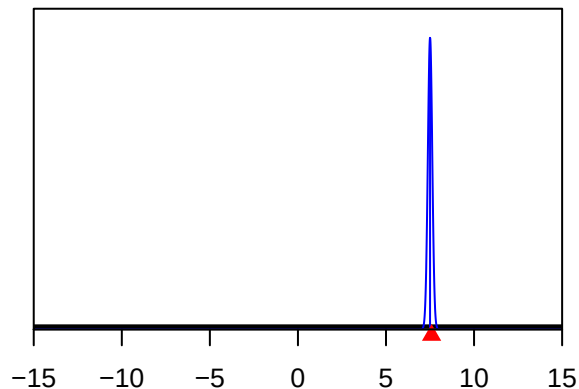


Parameter value

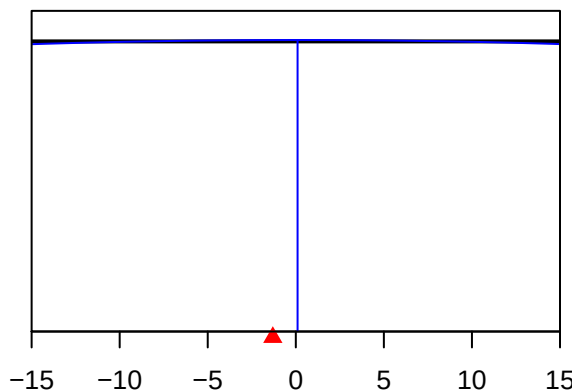
Size_DbIN_peak_A4-LL-n(4)



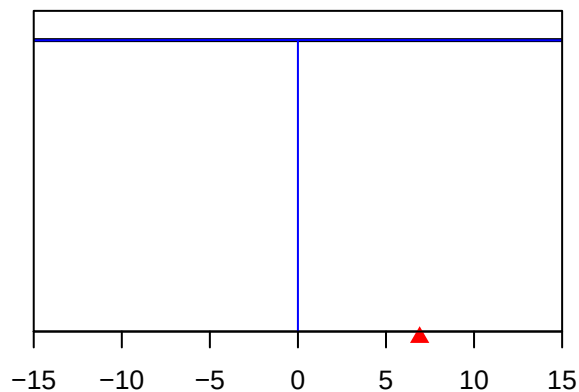
Size_DbIN_ascend_se_A4-LL-n(4)



Size_DbIN_top_logit_A4-LL-n(4)

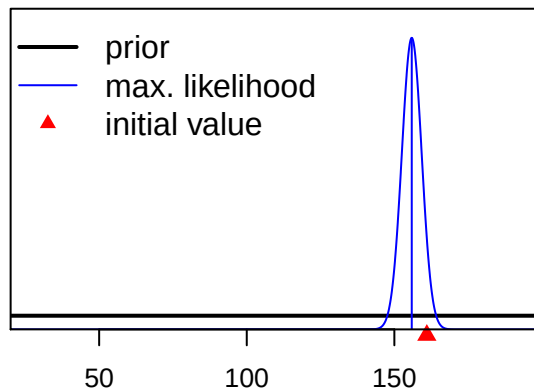


Size_DbIN_descend_se_A4-LL-n(4)

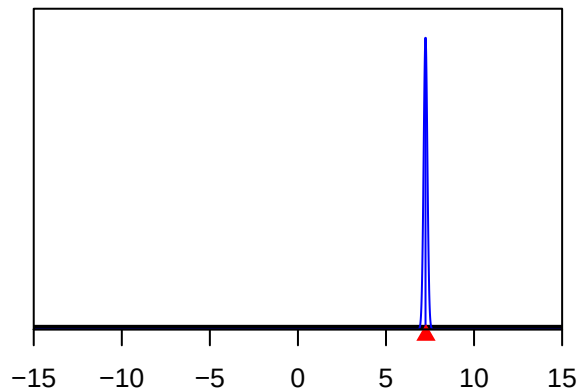


Parameter value

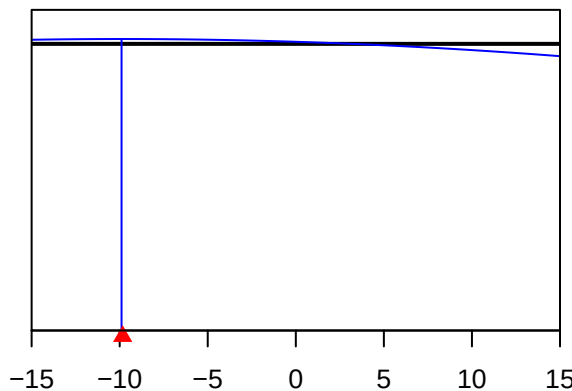
Size_DbIN_peak_A5-LL-n(5)



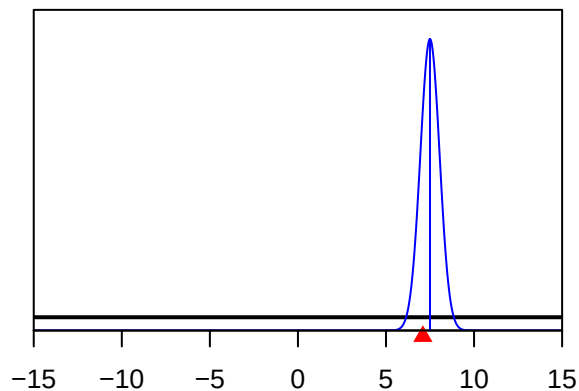
Size_DbIN_ascend_se_A5-LL-n(5)



Size_DbIN_top_logit_A5-LL-n(5)

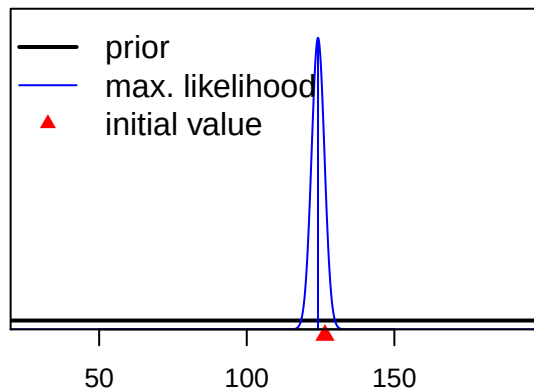


Size_DbIN_descend_se_A5-LL-n(5)

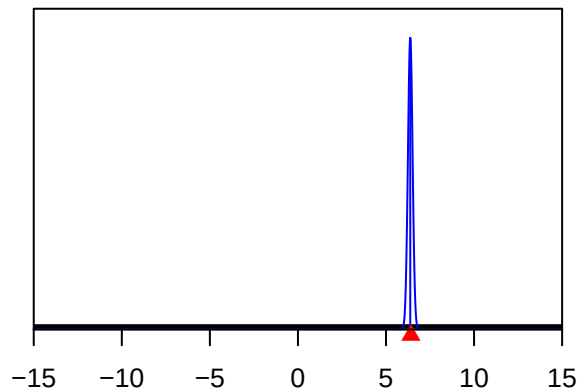


Parameter value

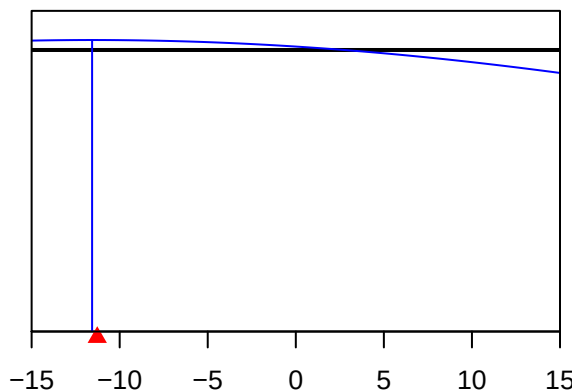
Size_DbIN_peak_A6-LL-n(6)



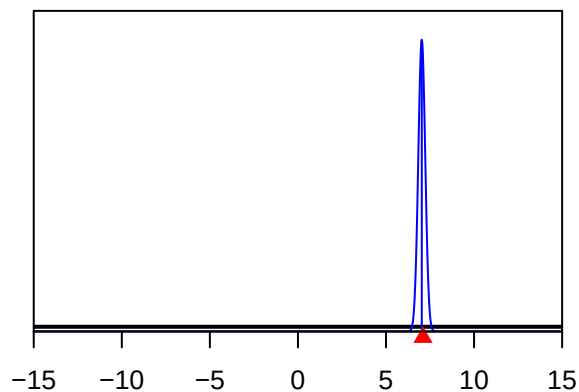
Size_DbIN_ascend_se_A6-LL-n(6)



Size_DbIN_top_logit_A6-LL-n(6)

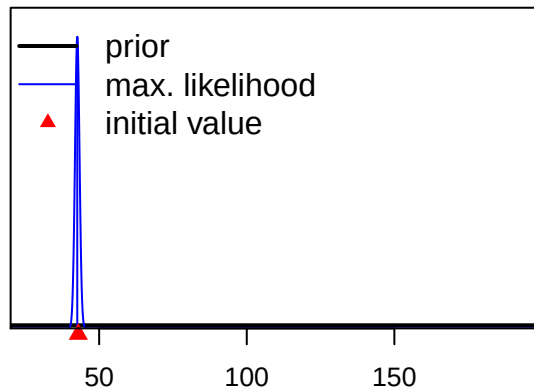


Size_DbIN_descend_se_A6-LL-n(6)

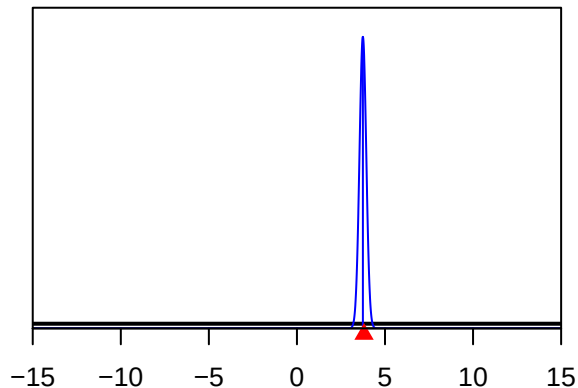


Parameter value

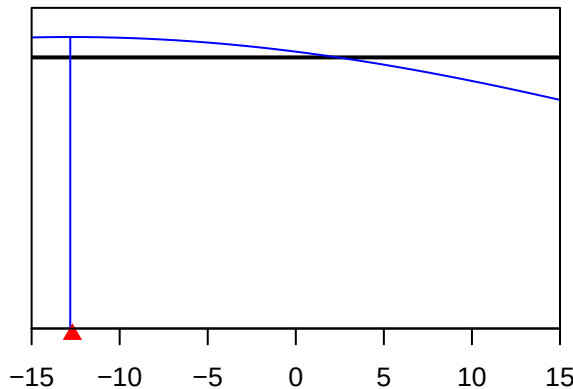
Size_DbIN_peak_A2-OBJ(13)



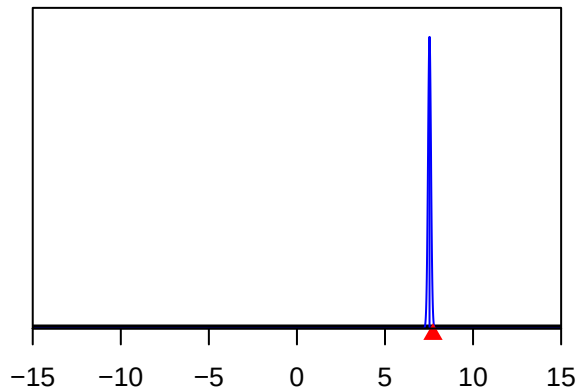
Size_DbIN_ascend_se_A2-OBJ(13)



Size_DbIN_top_logit_A2-OBJ(13)

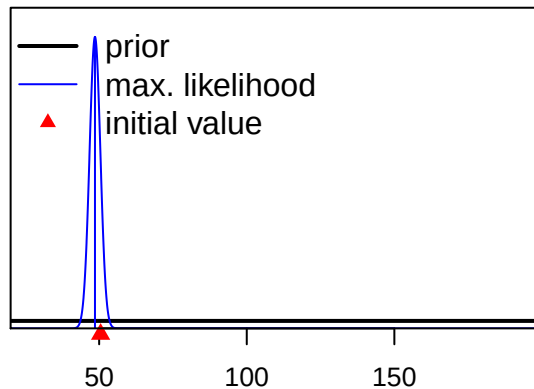


Size_DbIN_descend_se_A2-OBJ(13)

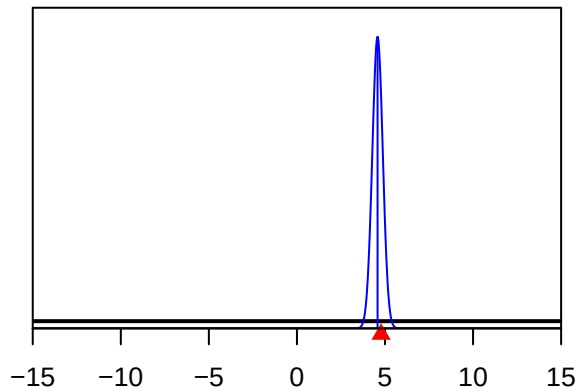


Parameter value

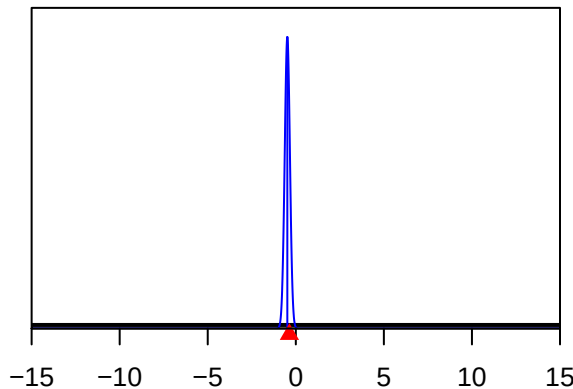
Size_DbIN_peak_A3-OBJ(14)



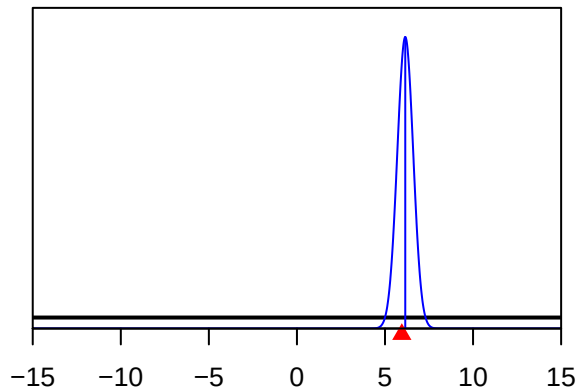
Size_DbIN_ascend_se_A3-OBJ(14)



Size_DbIN_top_logit_A3-OBJ(14)

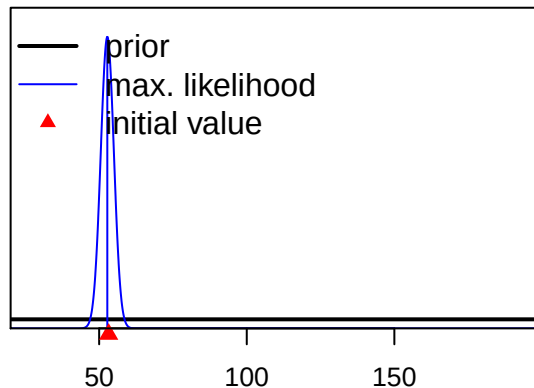


Size_DbIN_descend_se_A3-OBJ(14)

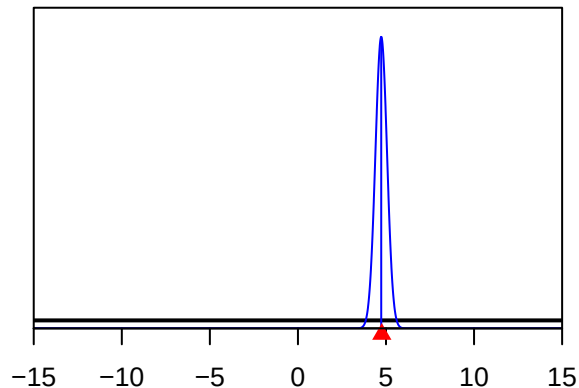


Parameter value

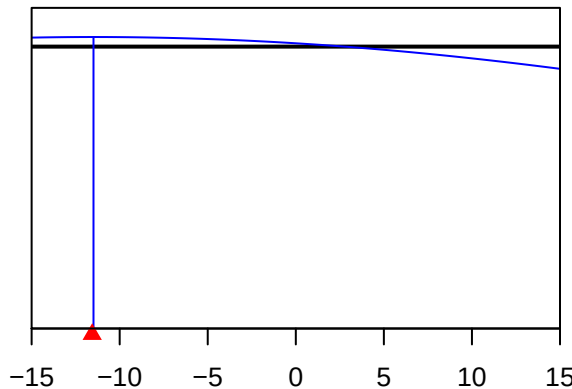
Size_DbIN_peak_A4-OBJ(15)



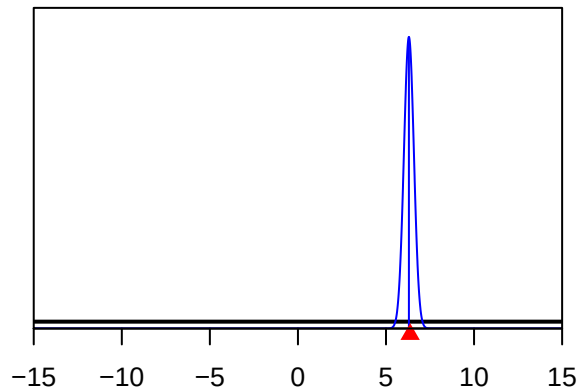
Size_DbIN_ascend_se_A4-OBJ(15)



Size_DbIN_top_logit_A4-OBJ(15)

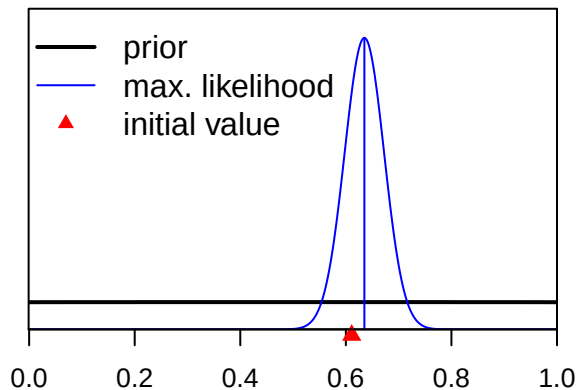


Size_DbIN_descend_se_A4-OBJ(15)

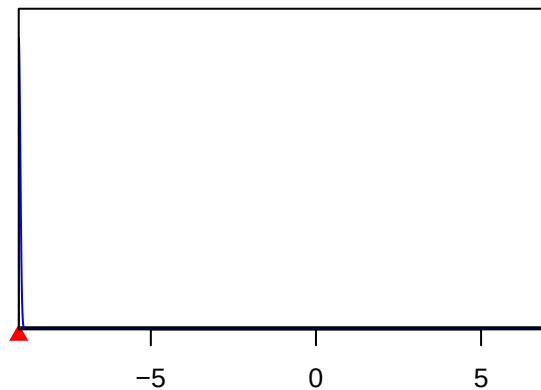


Parameter value

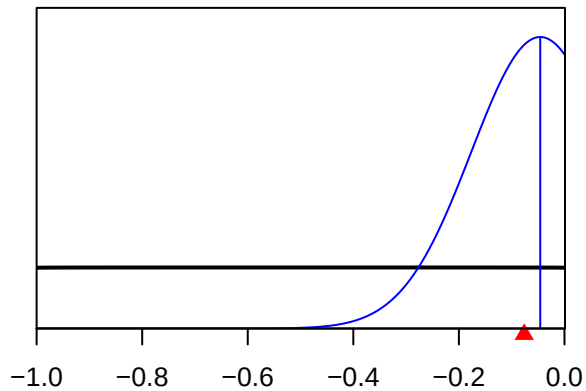
SizeSpline_GradLo_A5-OBJ(16)



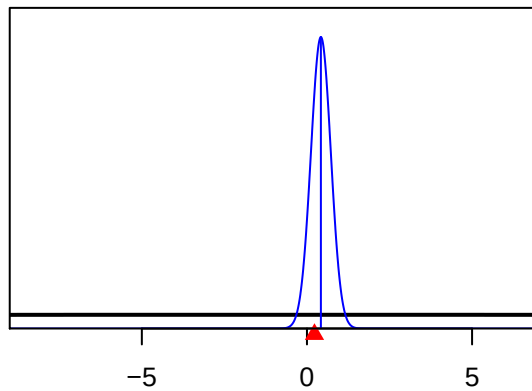
SizeSpline_Val_1_A5-OBJ(16)



SizeSpline_GradHi_A5-OBJ(16)

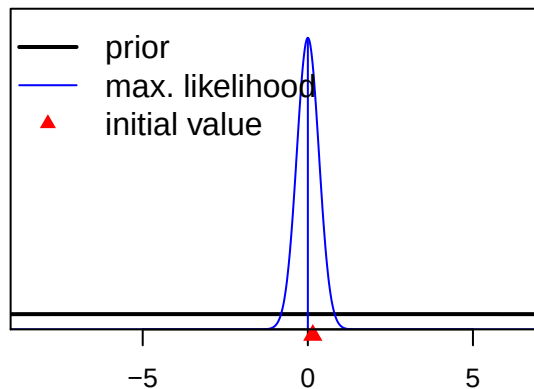


SizeSpline_Val_2_A5-OBJ(16)

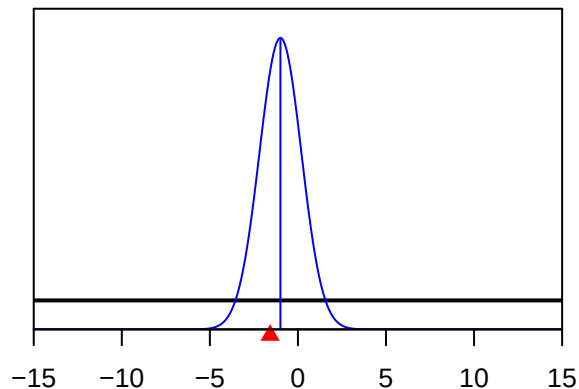


Parameter value

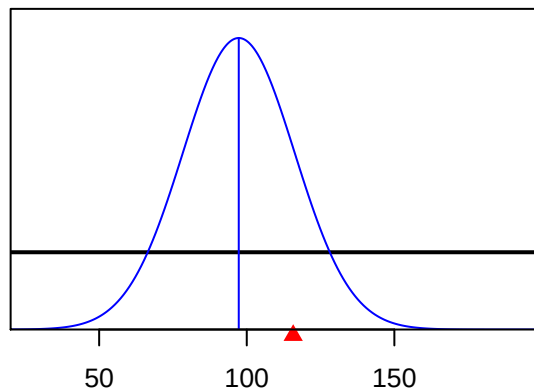
SizeSpline_Val_4_A5-OBJ(16)



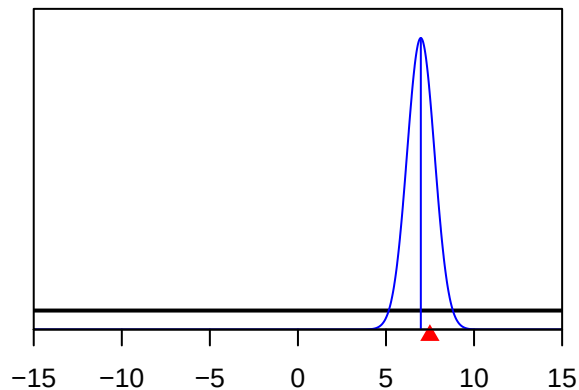
Size_DbIN_top_logit_A6-OBJ(17)



Size_DbIN_peak_A6-OBJ(17)

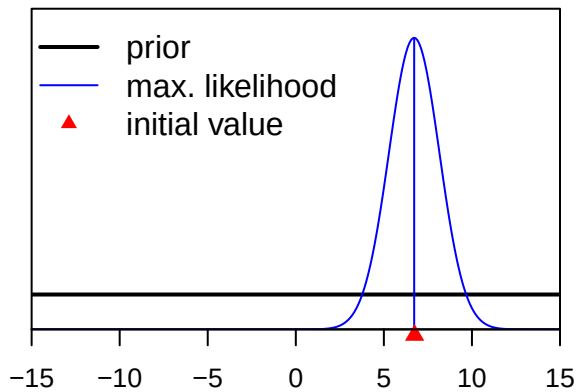


Size_DbIN_ascend_se_A6-OBJ(17)

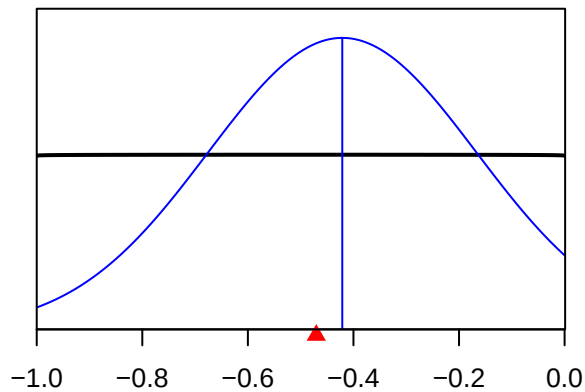


Parameter value

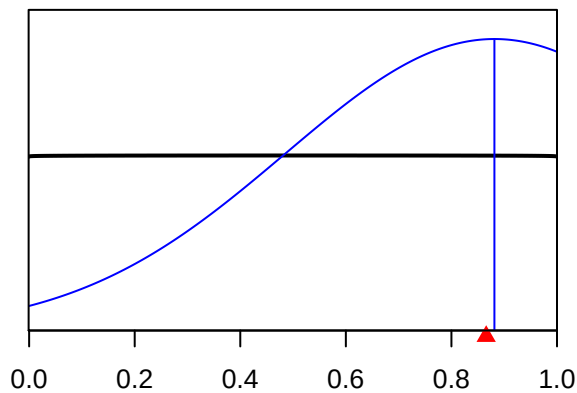
Size_DblN_descend_se_A6-Obj(17)



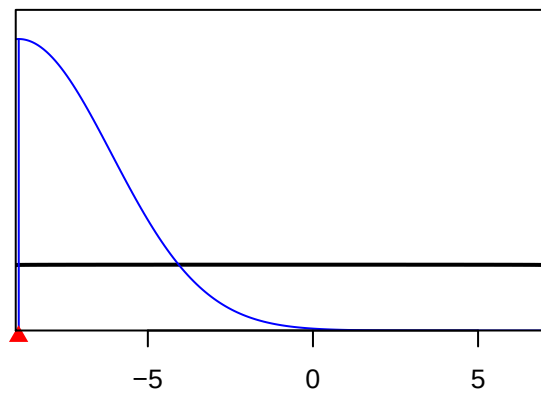
SizeSpline_GradHi_A2-NOADEL(19)



SizeSpline_GradLo_A2-NOADEL(19)

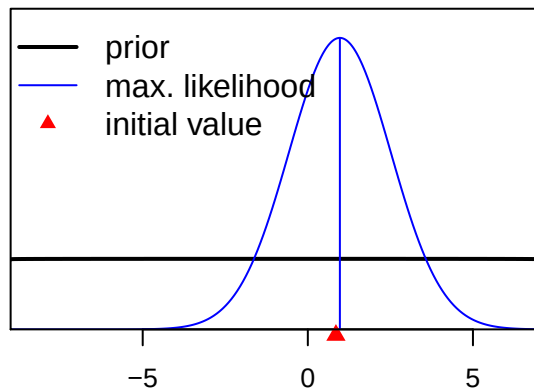


SizeSpline_Val_1_A2-NOADEL(19)

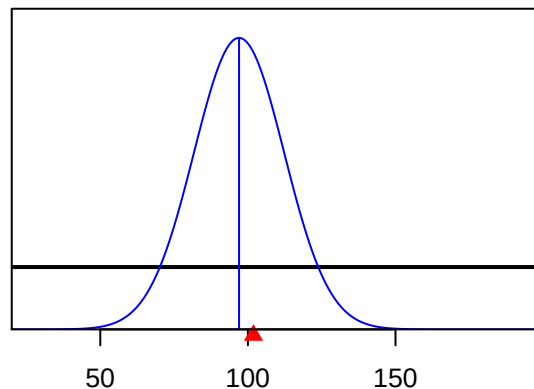


Parameter value

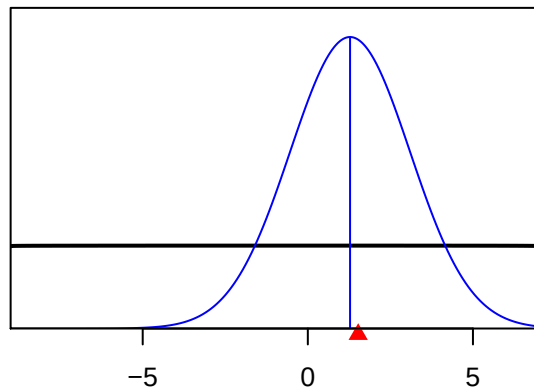
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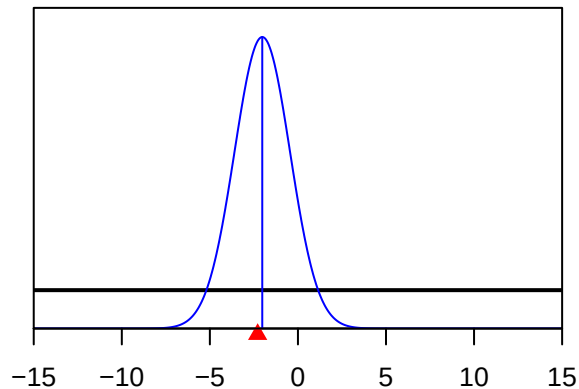
Size_DblN_peak_A3-NOADEL(20)



SizeSpline_Val_4_A2-NOADEL(19)



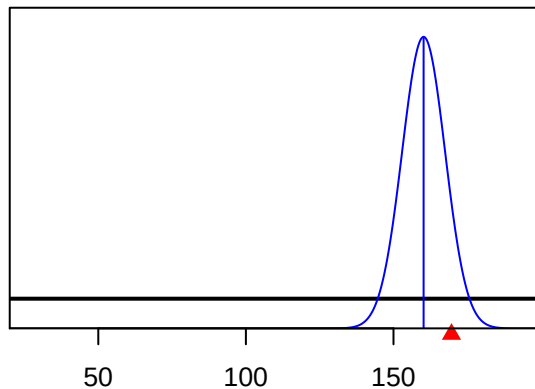
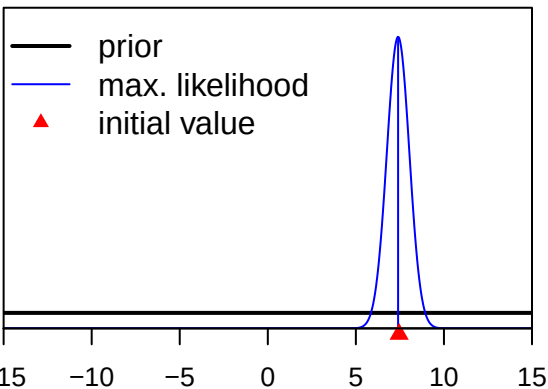
Size_DblN_top_logit_A3-NOADEL(20)



Parameter value

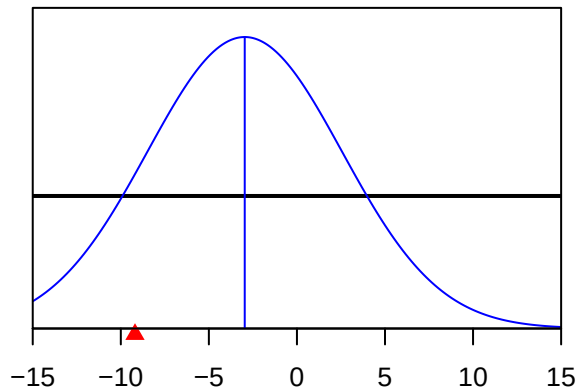
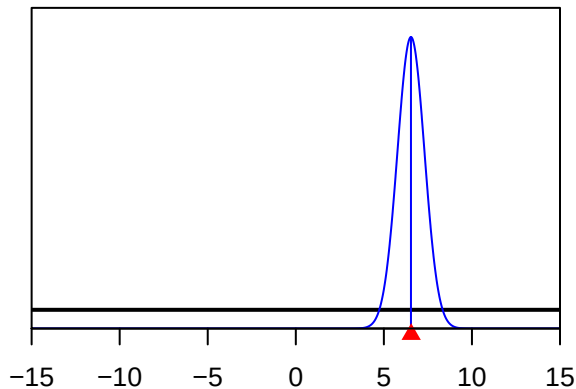
Size_DbIN_ascend_se_A3-NOADEL(20)

Size_DbIN_peak_EPO-LL-survey-early(24)



Size_DbIN_descend_se_A3-NOADEL(20)

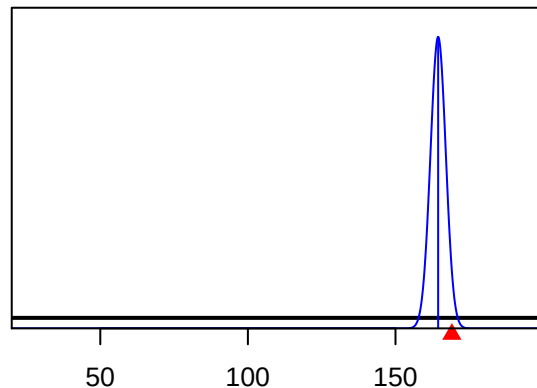
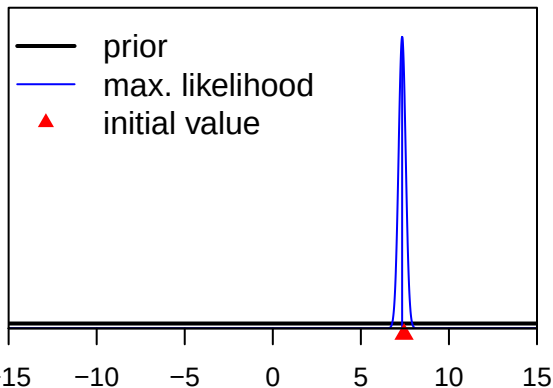
Size_DbIN_top_logit_EPO-LL-survey-early(24)



Parameter value

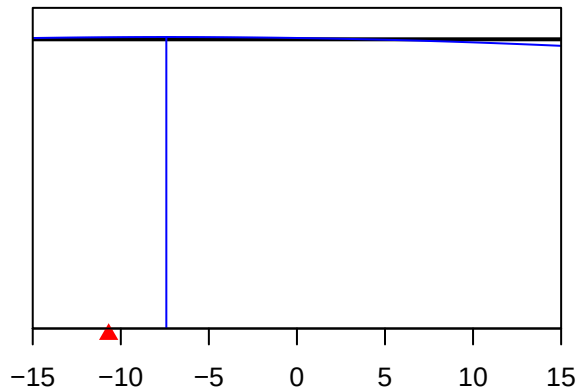
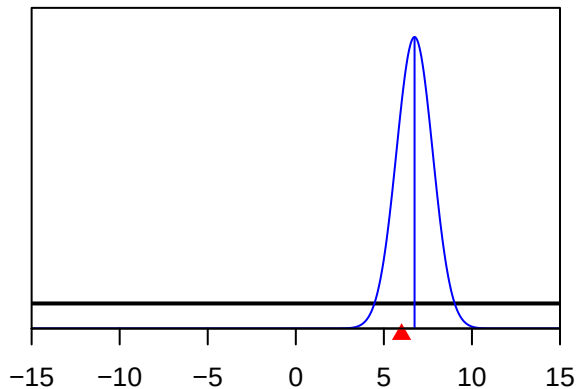
ize_DbIN_ascend_se_EPO-LL-survey-early(25)

Size_DbIN_peak_EPO-LL-survey-late(25)



ze_DbIN_descend_se_EPO-LL-survey-early(25)

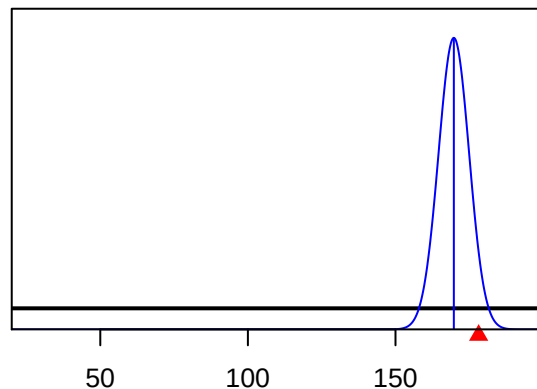
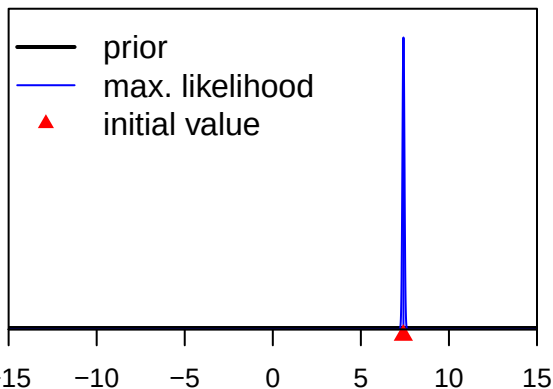
Size_DbIN_top_logit_EPO-LL-survey-late(25)



Parameter value

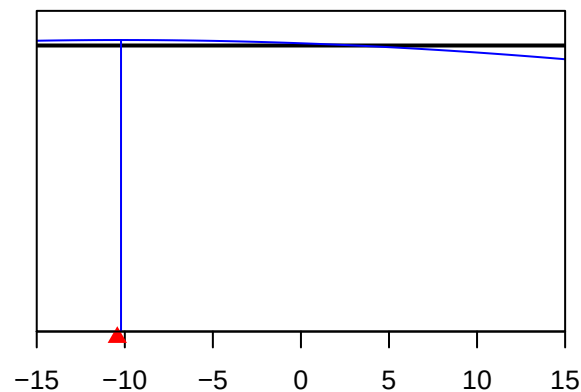
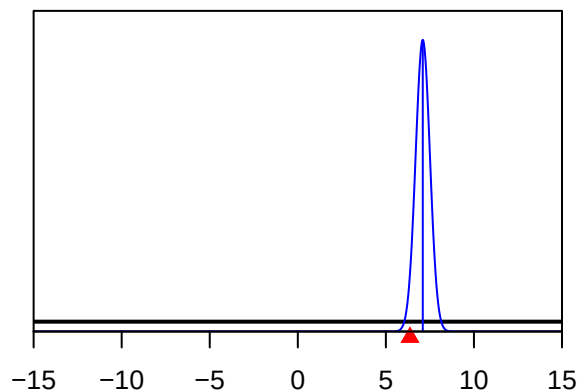
Size_DbIN_ascend_se_EPO-LL-survey-late(25

Size_DbIN_peak_A2-LL-n(2)_BLK2repl_17



ize_DbIN_descend_se_EPO-LL-survey-late(25

Size_DbIN_top_logit_A2-LL-n(2)_BLK2repl_17

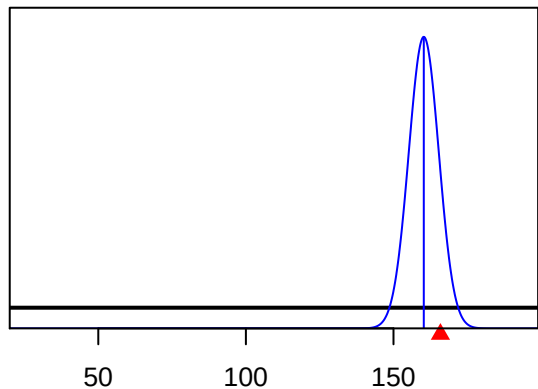
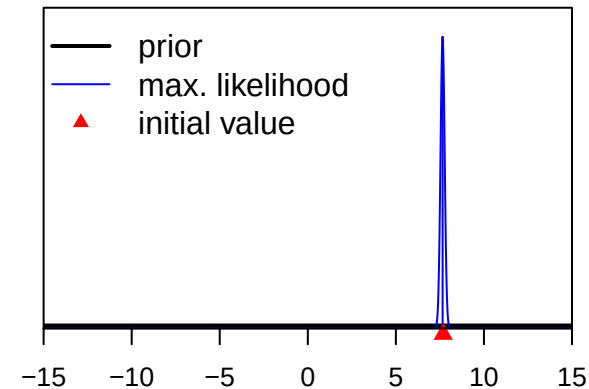


Parameter value

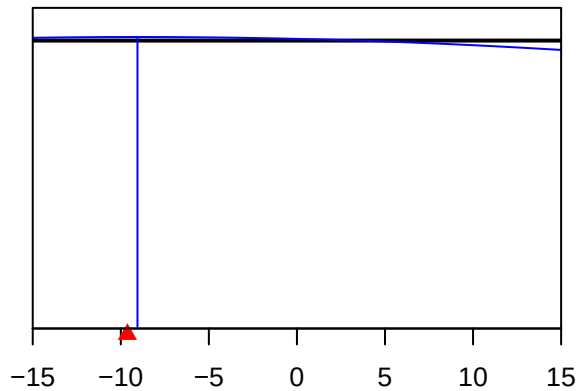
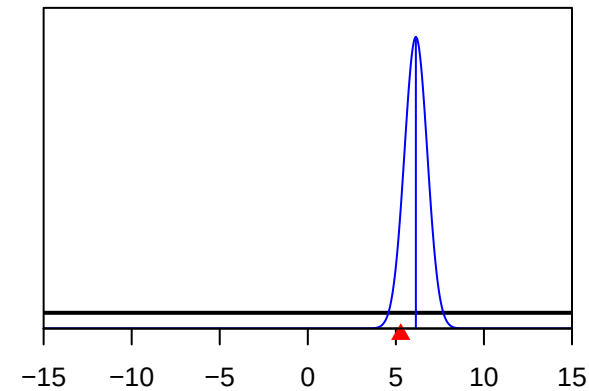
Size_DbIN_ascend_se_A2-LL-n(2)_BLK2repl_1

Size_DbIN_peak_A3-LL-n(3)_BLK2repl_17

Density



Size_DbIN_descend_se_A2-LL-n(2)_BLK2repl_1 Size_DbIN_top_logit_A3-LL-n(3)_BLK2repl_17

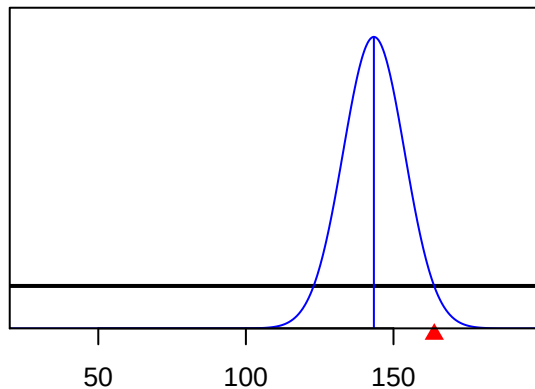
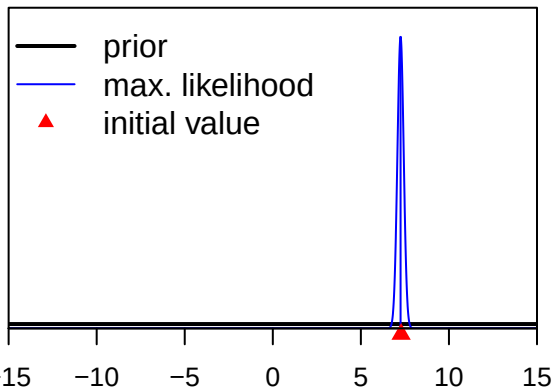


Parameter value

Size_DbIN_ascend_se_A3-LL-n(3)_BLK2repl_1

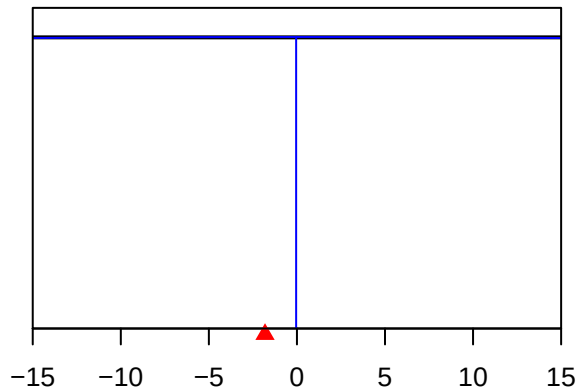
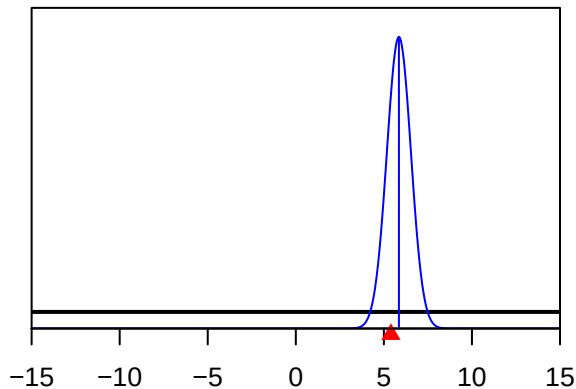
Size_DbIN_peak_A4-LL-n(4)_BLK2repl_17

Density



Size_DbIN_descend_se_A3-LL-n(3)_BLK2repl_1

Size_DbIN_top_logit_A4-LL-n(4)_BLK2repl_17

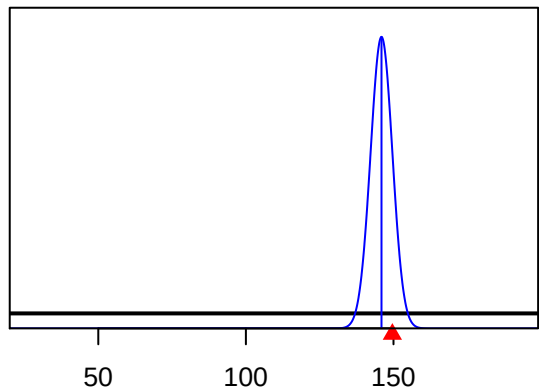
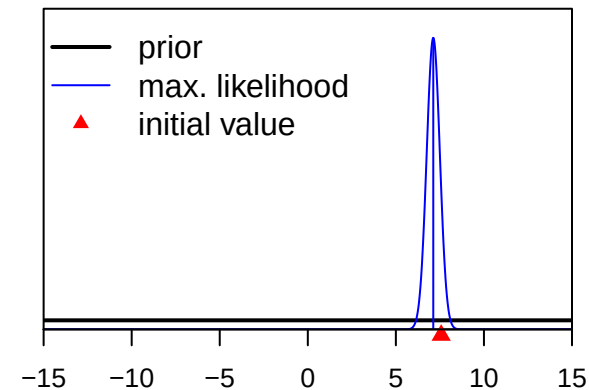


Parameter value

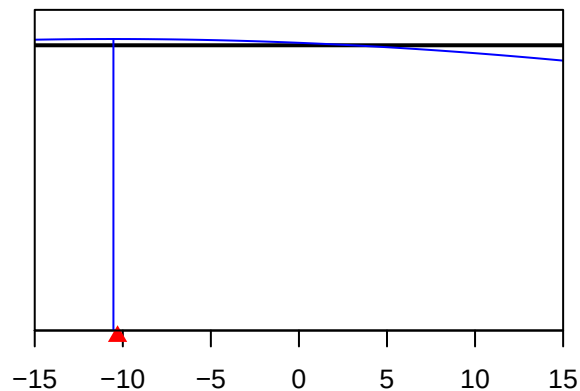
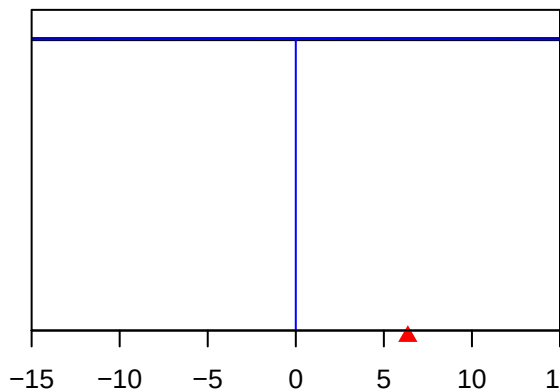
Size_DblN_ascend_se_A4-LL-n(4)_BLK2repl_1

Size_DblN_peak_A5-LL-n(5)_BLK2repl_17

Density



Size_DblN_descend_se_A4-LL-n(4)_BLK2repl_1 Size_DblN_top_logit_A5-LL-n(5)_BLK2repl_17

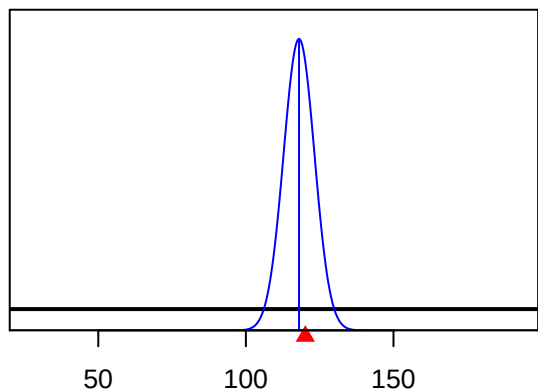
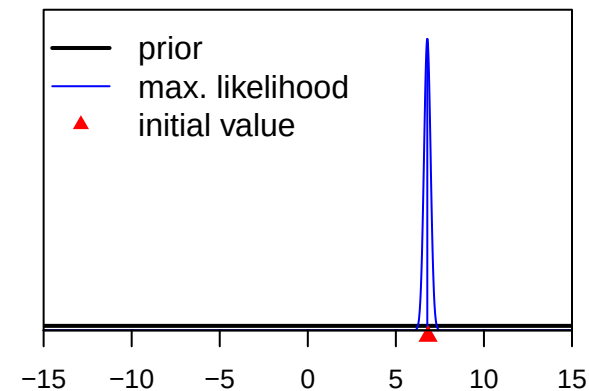


Parameter value

Size_DbIN_ascend_se_A5-LL-n(5)_BLK2repl_1

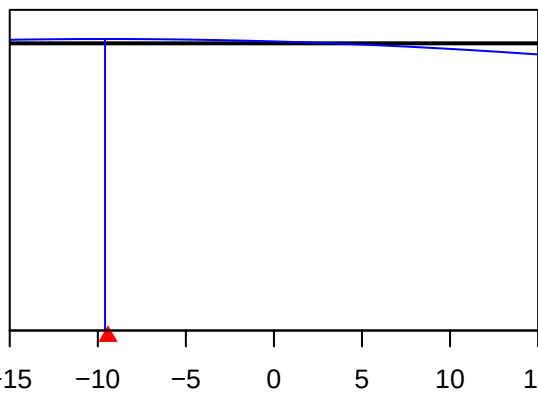
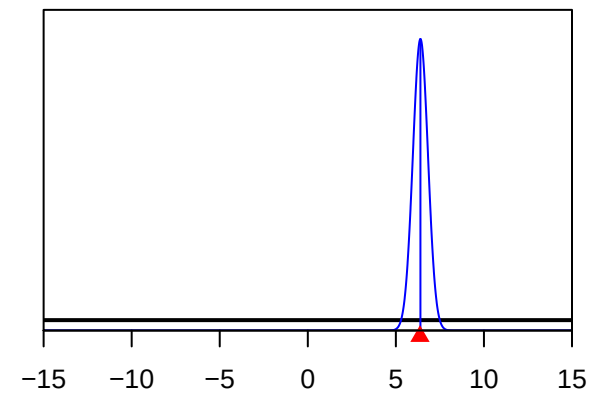
Size_DbIN_peak_A6-LL-n(6)_BLK2repl_17

Density



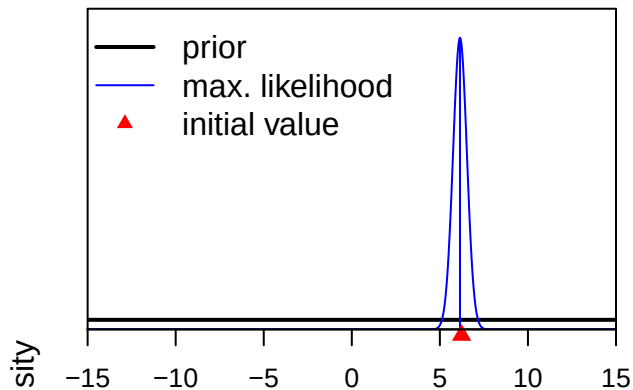
Size_DbIN_descend_se_A5-LL-n(5)_BLK2repl_1

Size_DbIN_top_logit_A6-LL-n(6)_BLK2repl_17



Parameter value

ize_DbIN_ascend_se_A6-LL-n(6)_BLK2repl_1



ize_DbIN_descend_se_A6-LL-n(6)_BLK2repl_1

