

Plots created using the 'r4ss' package in R

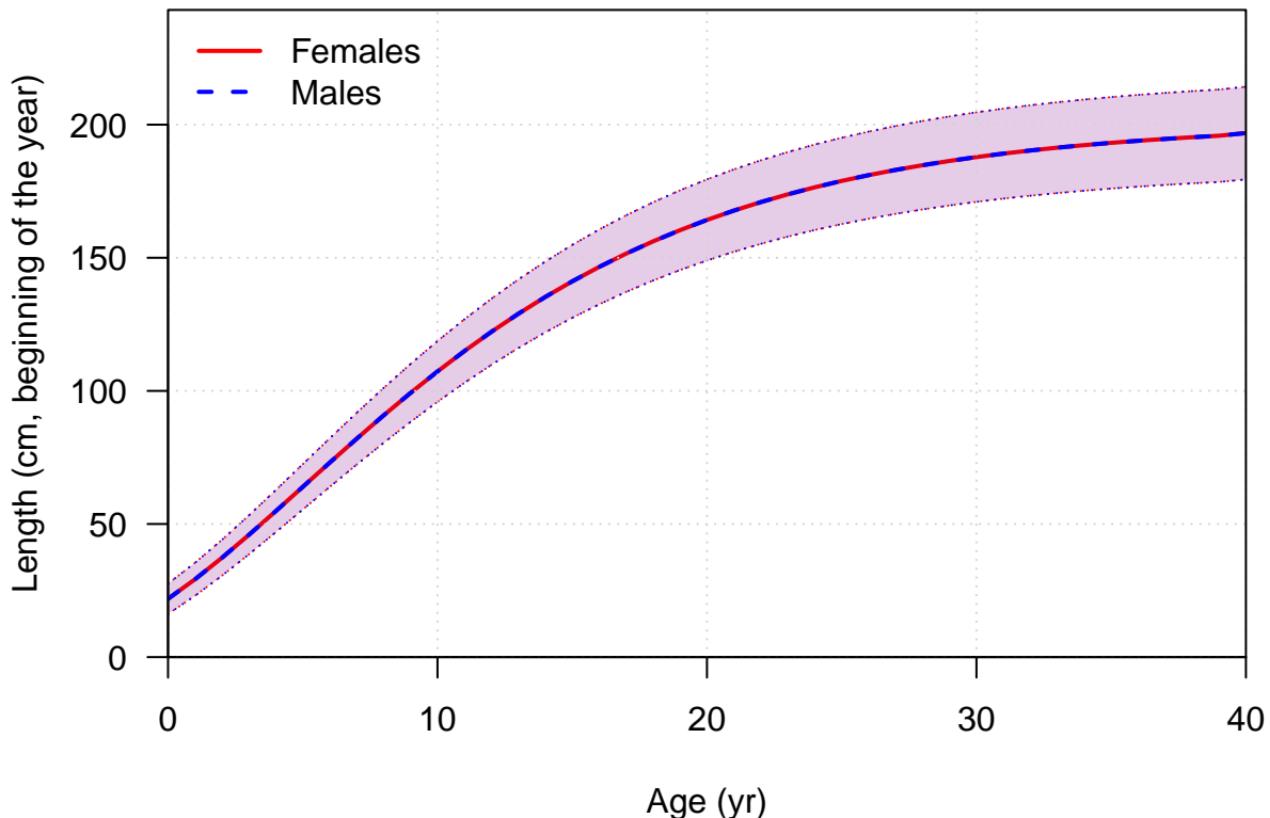
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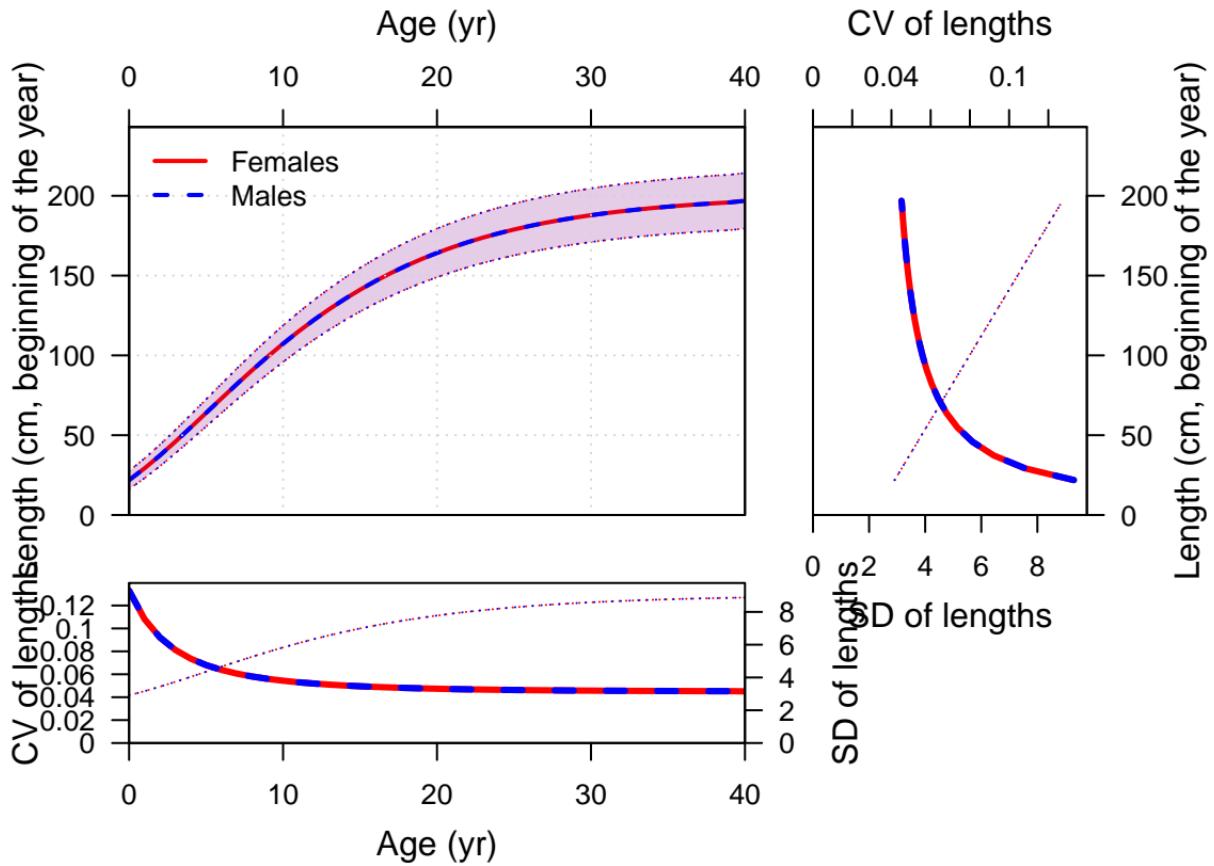
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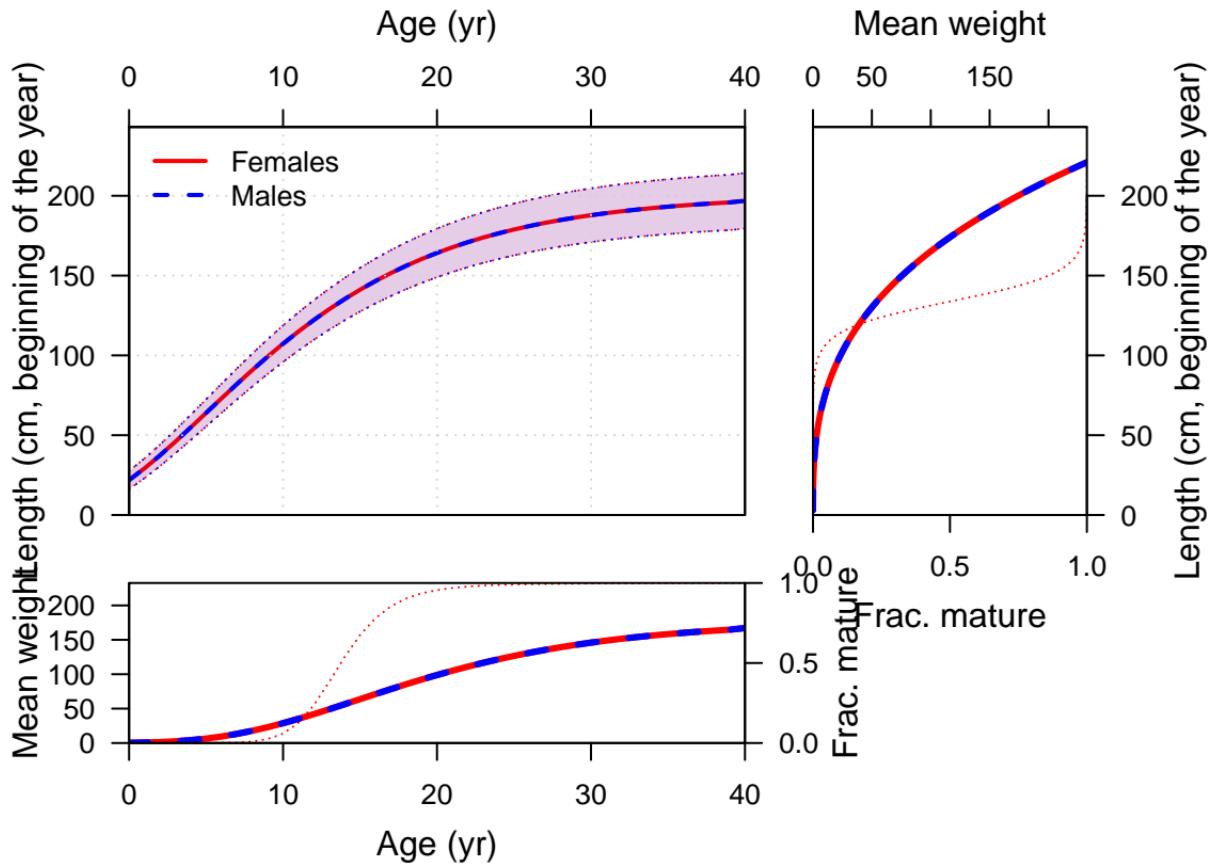
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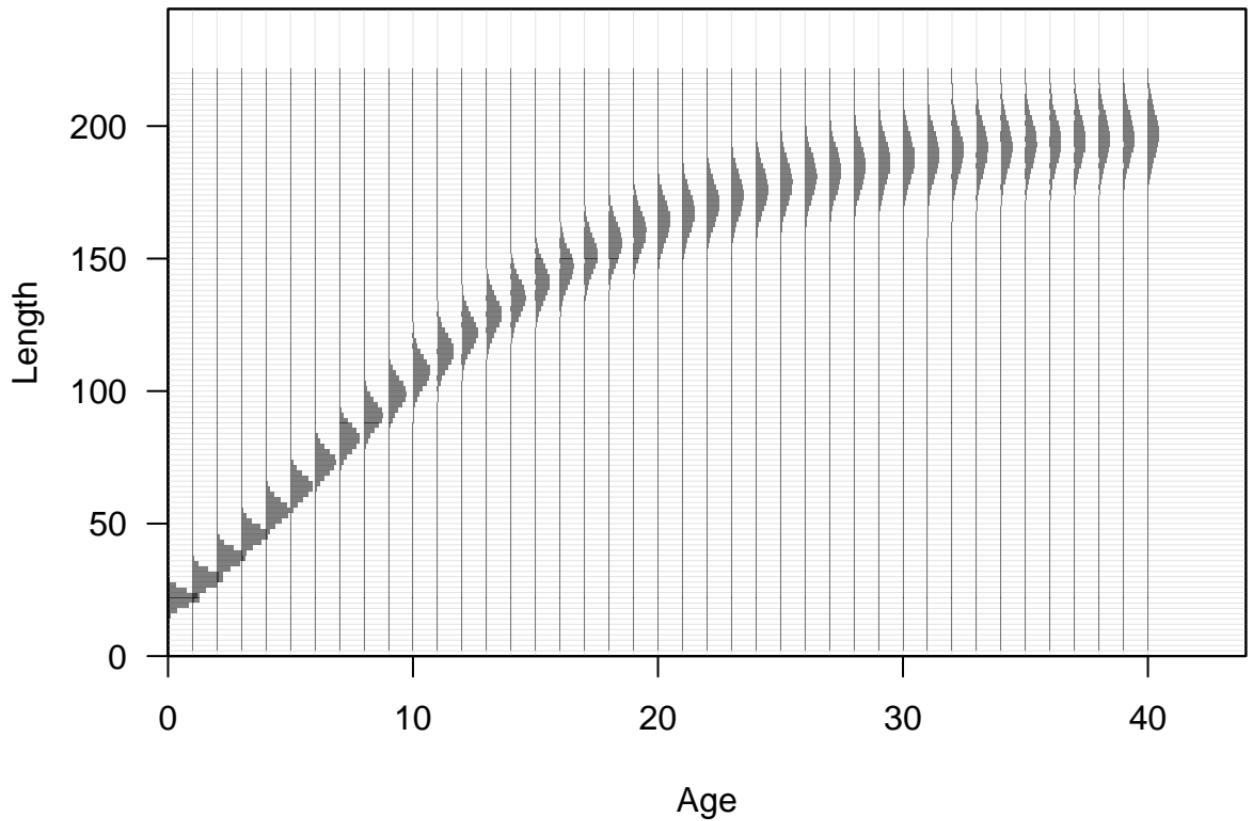
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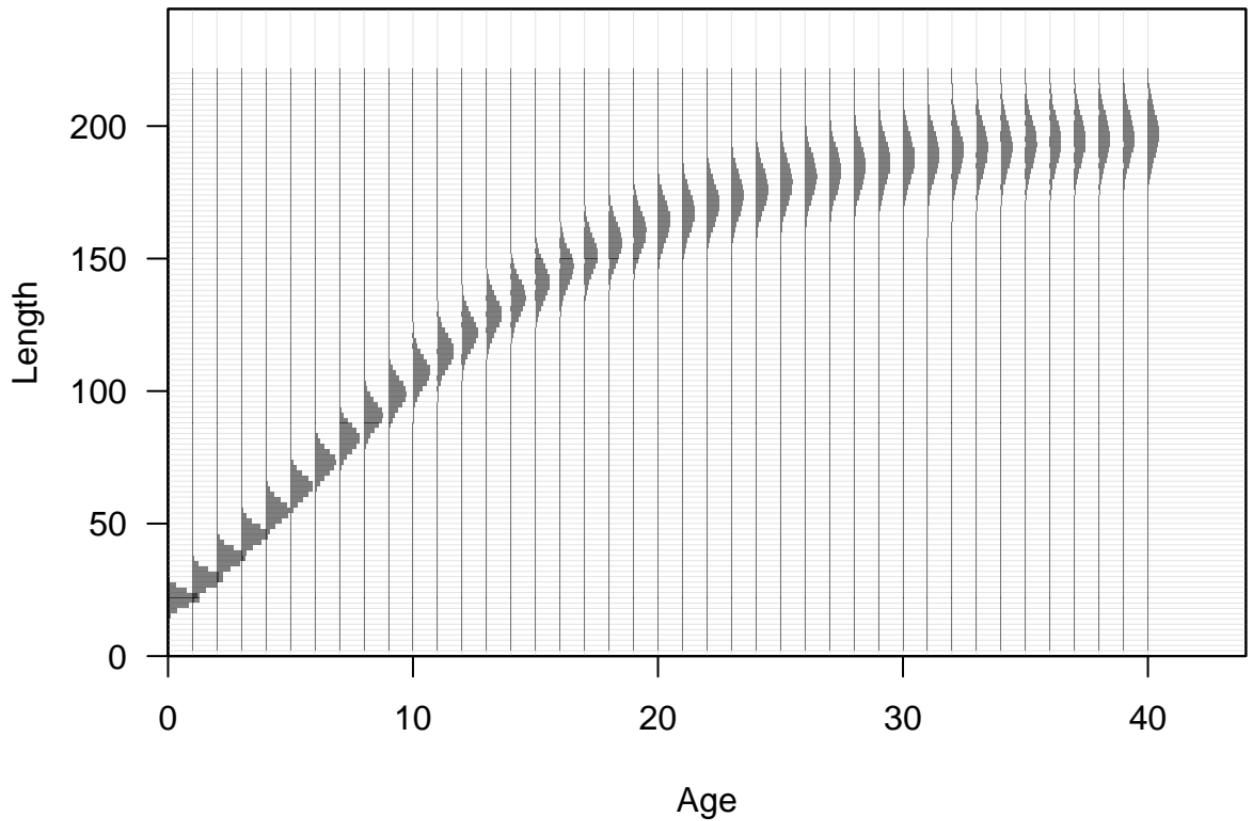
## Ending year expected growth (with 95% intervals)

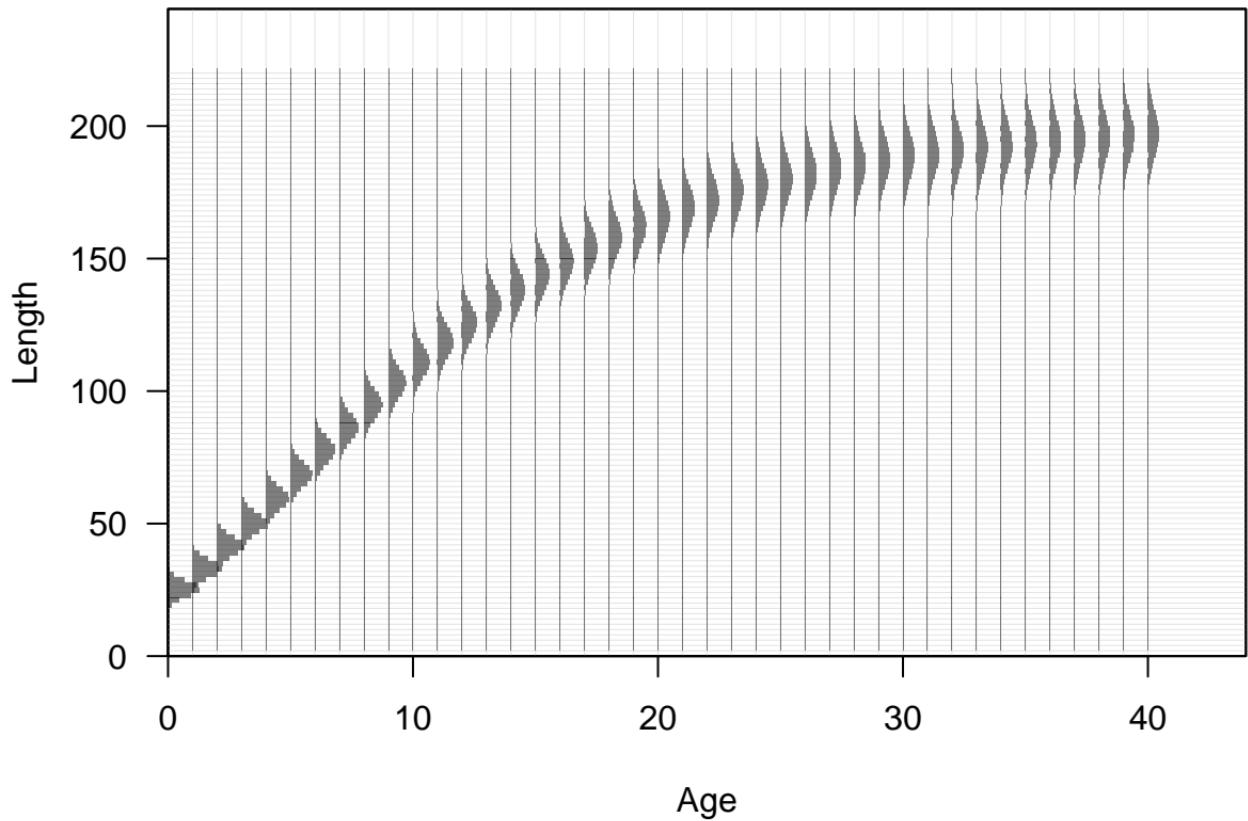


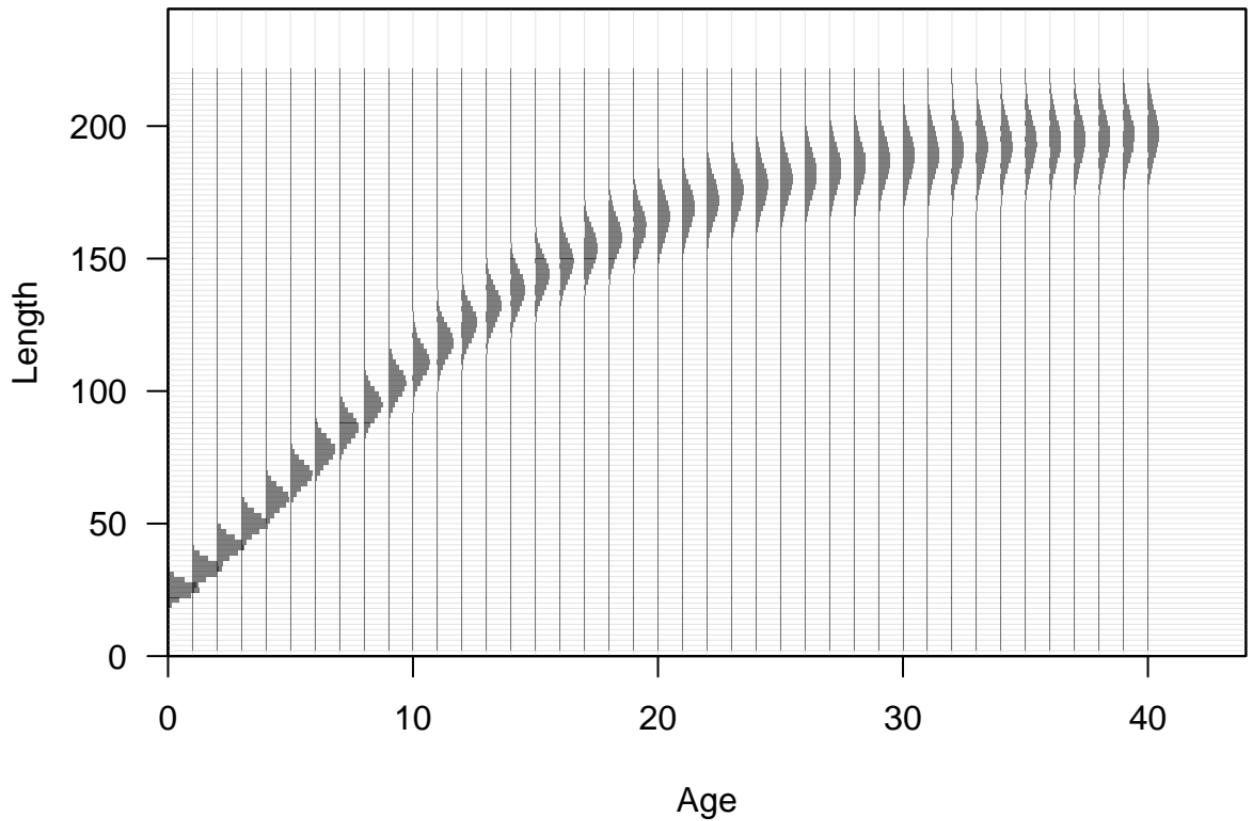


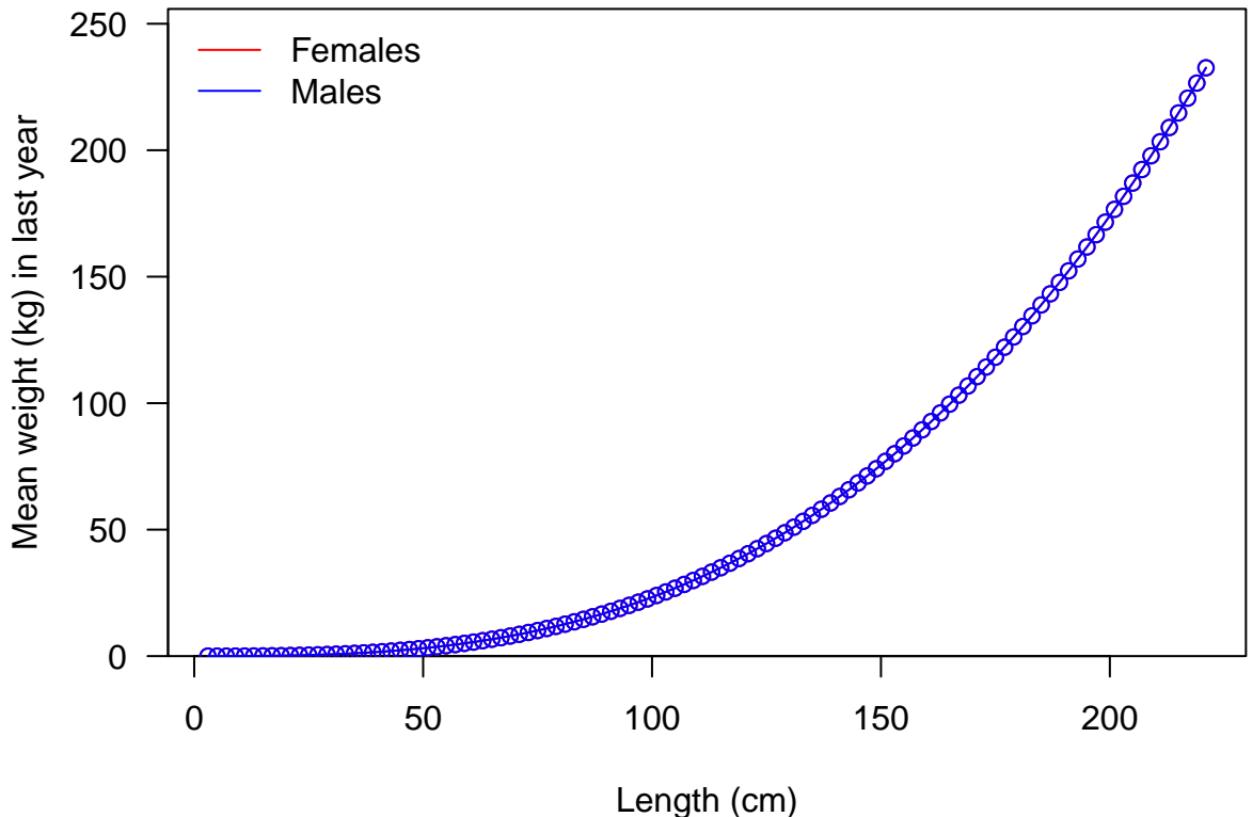


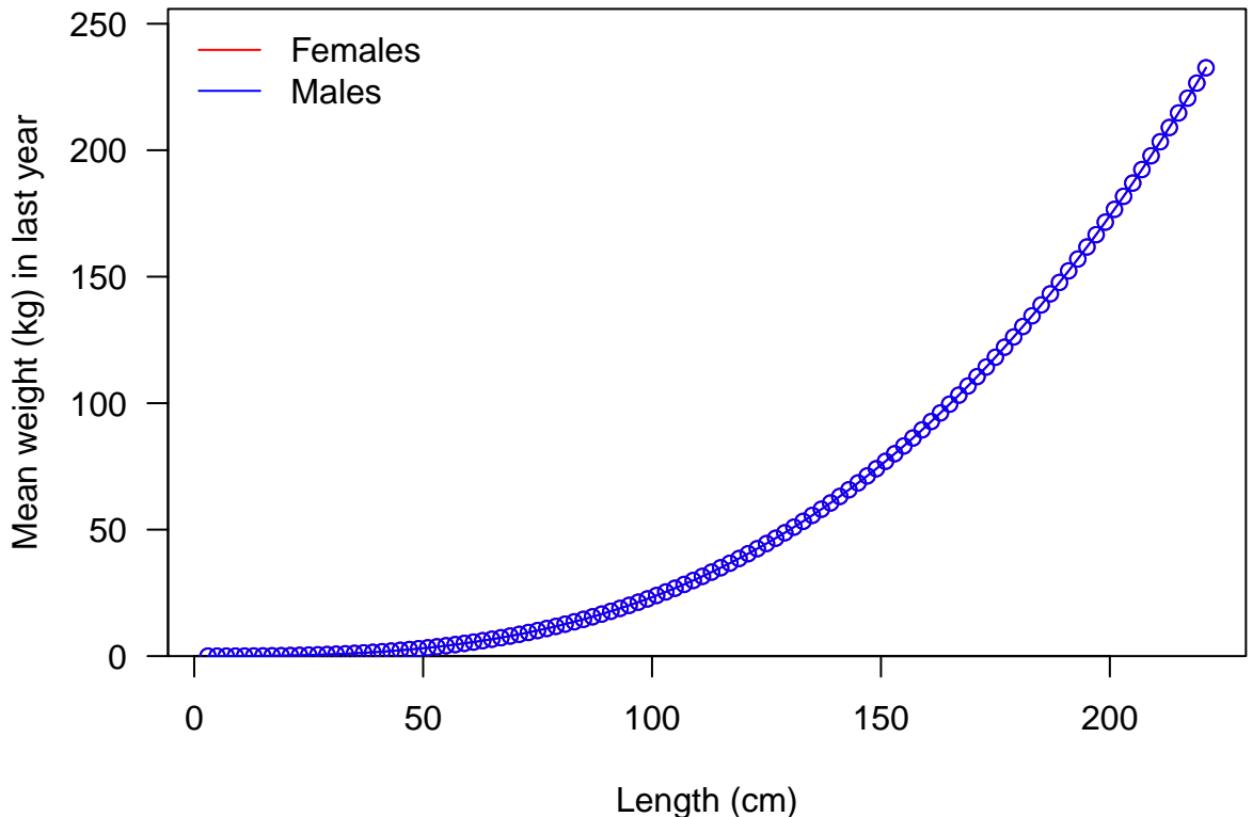


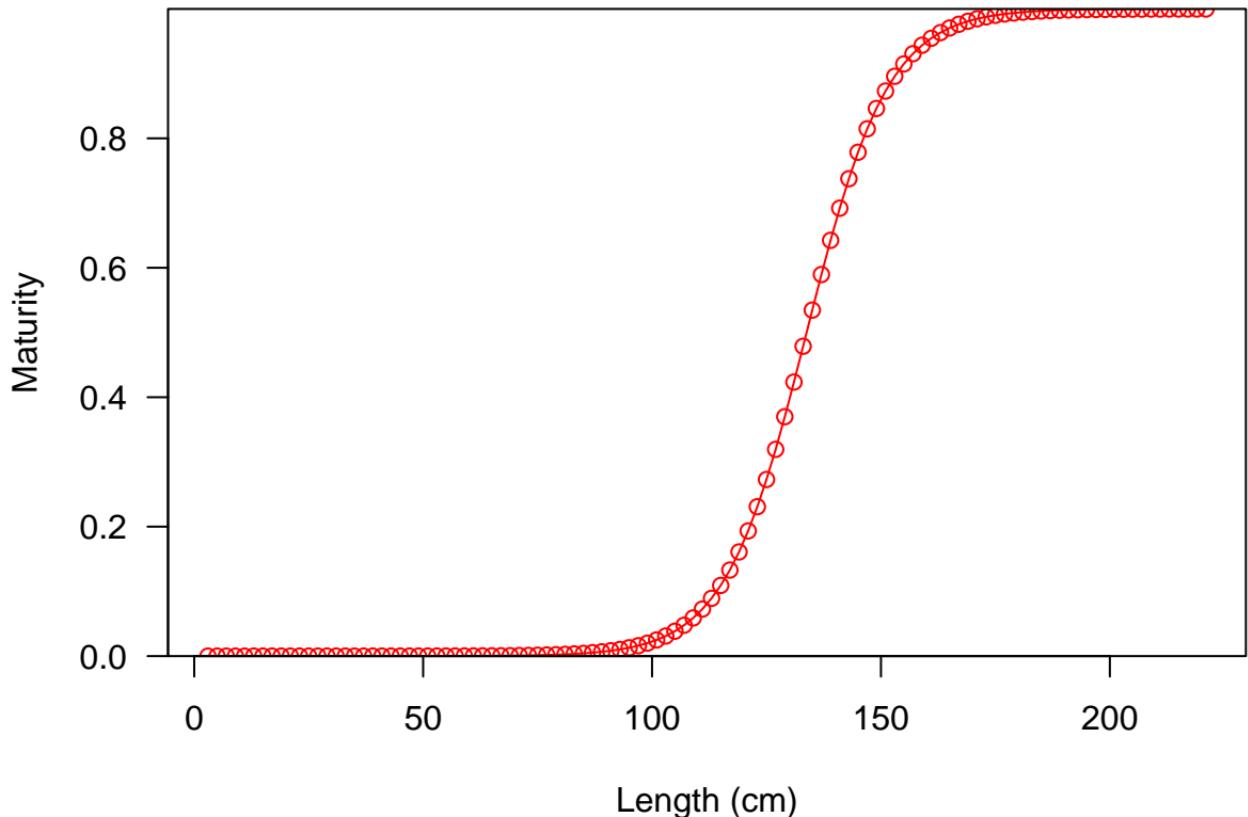


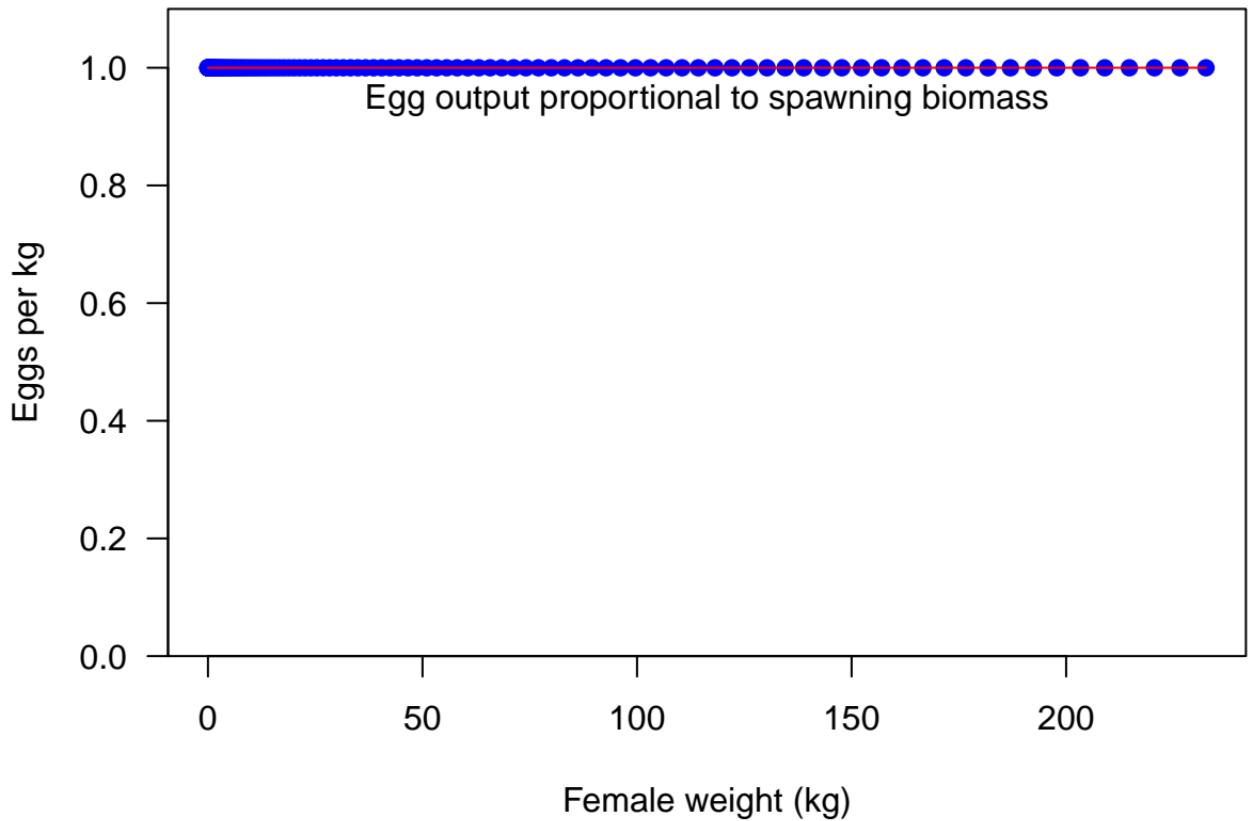


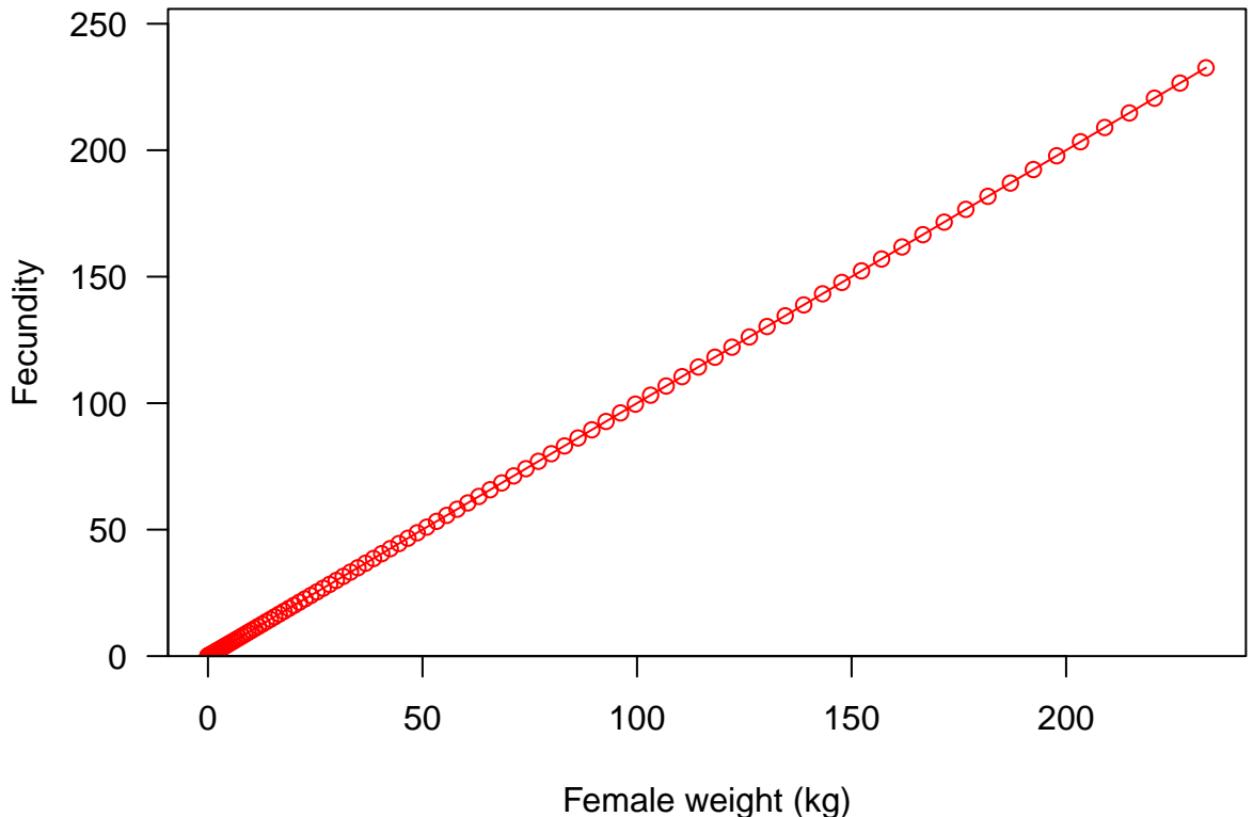


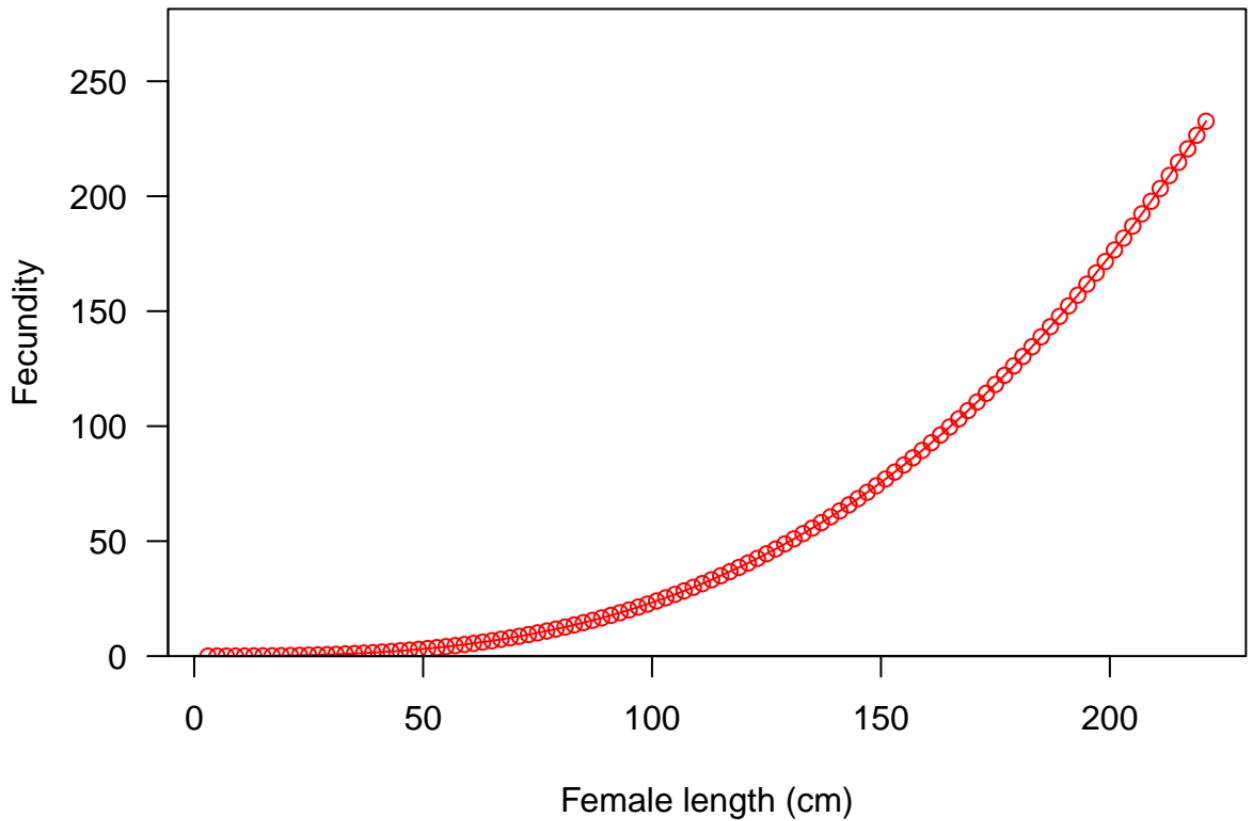


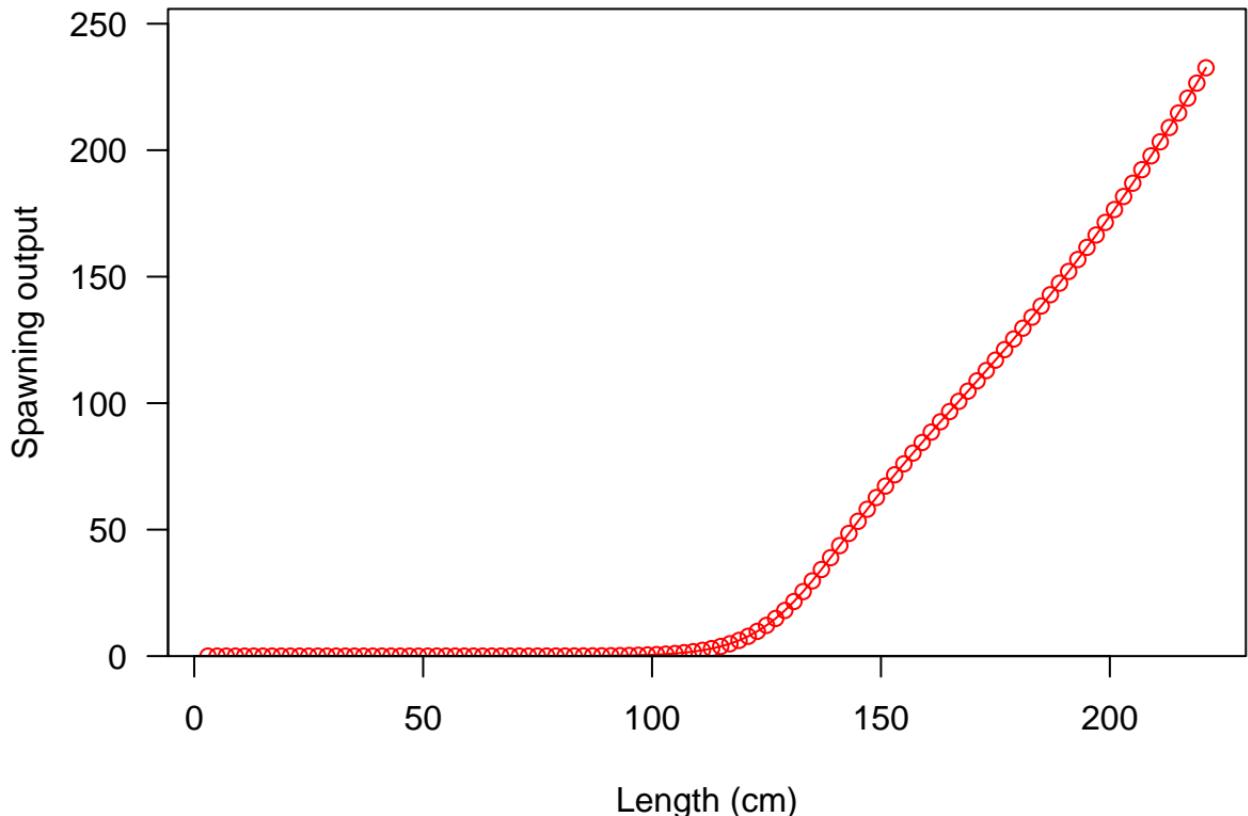


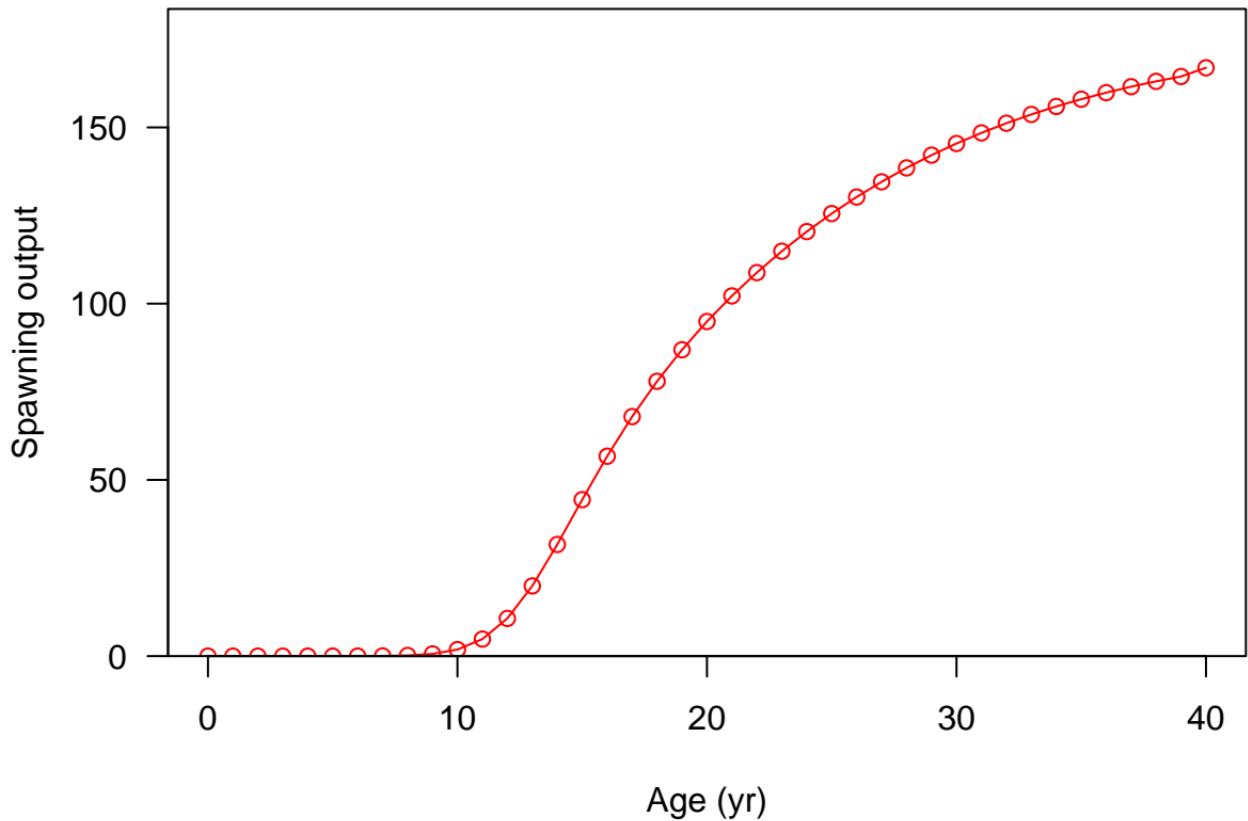




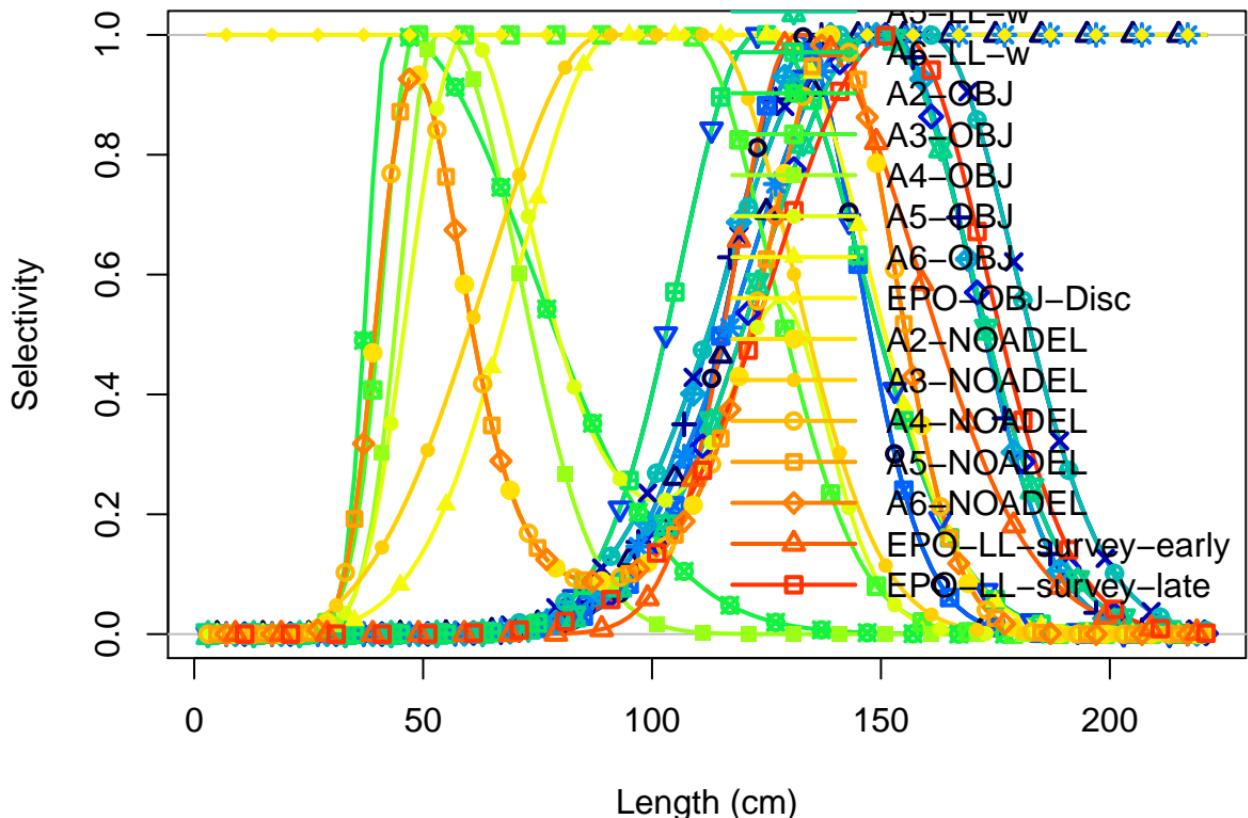




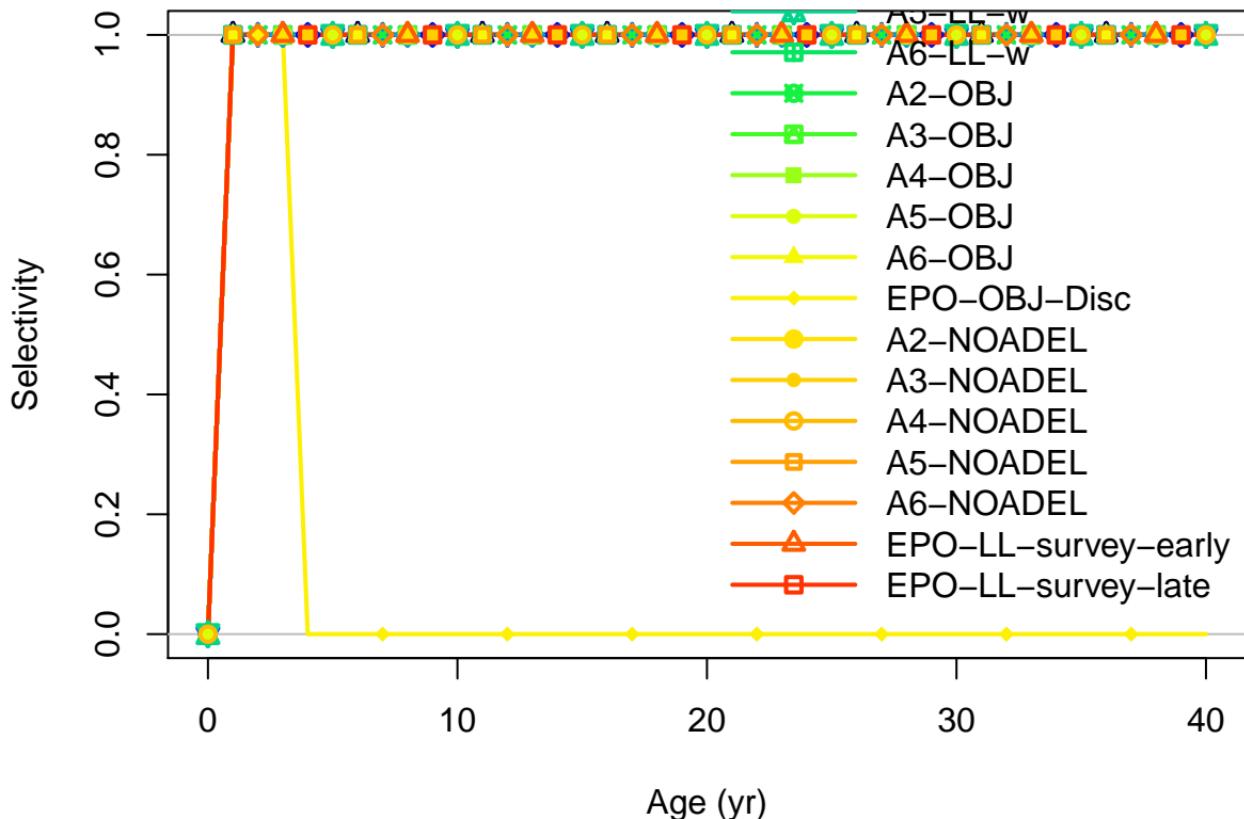




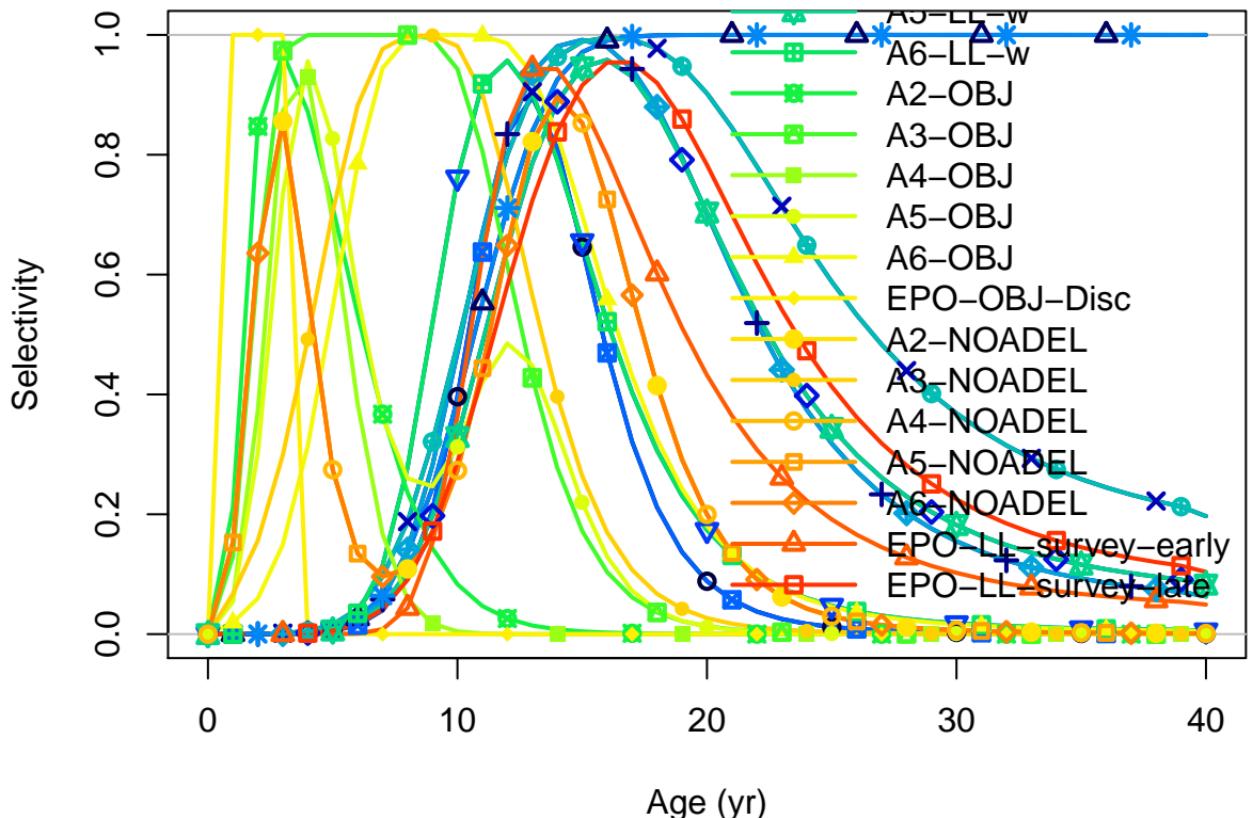
## Length-based selectivity by fleet in 180



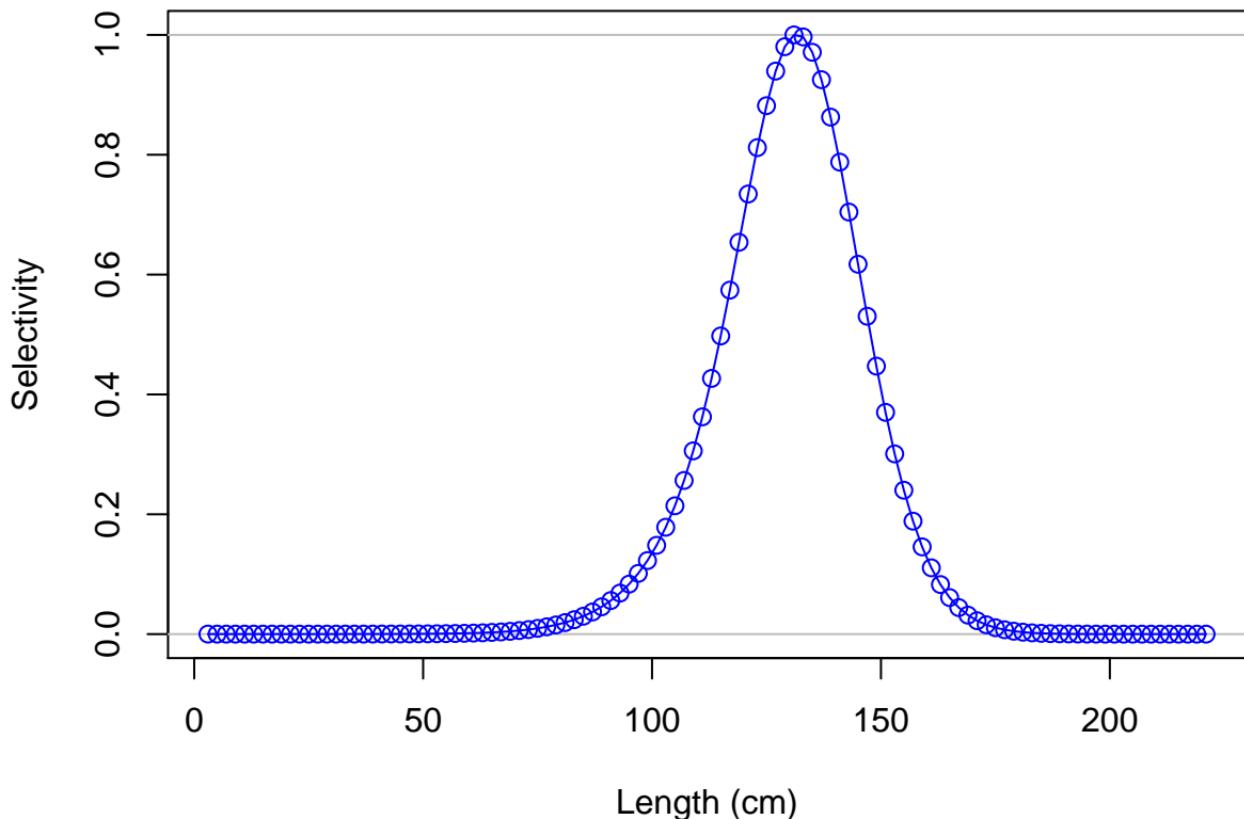
## Age-based selectivity by fleet in 180



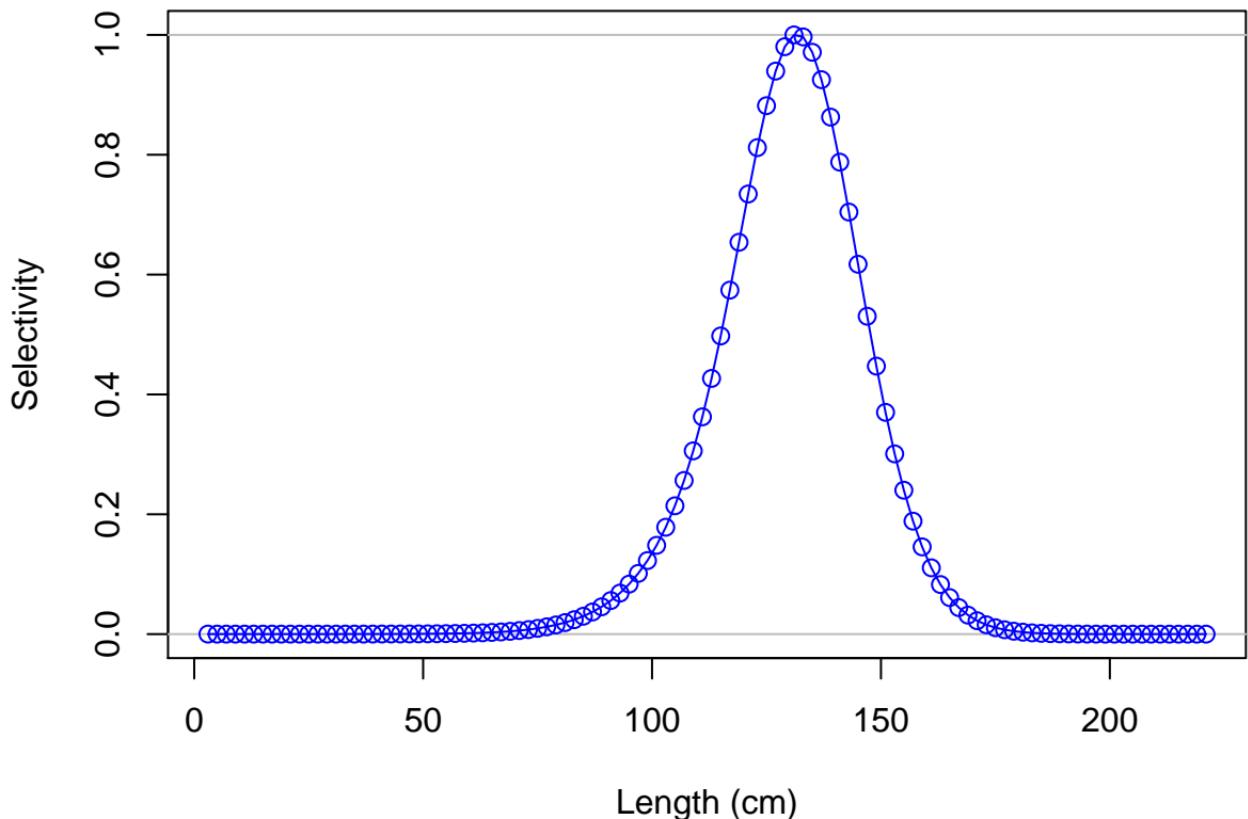
## Derived age-based from length-based selectivity by fleet in 180



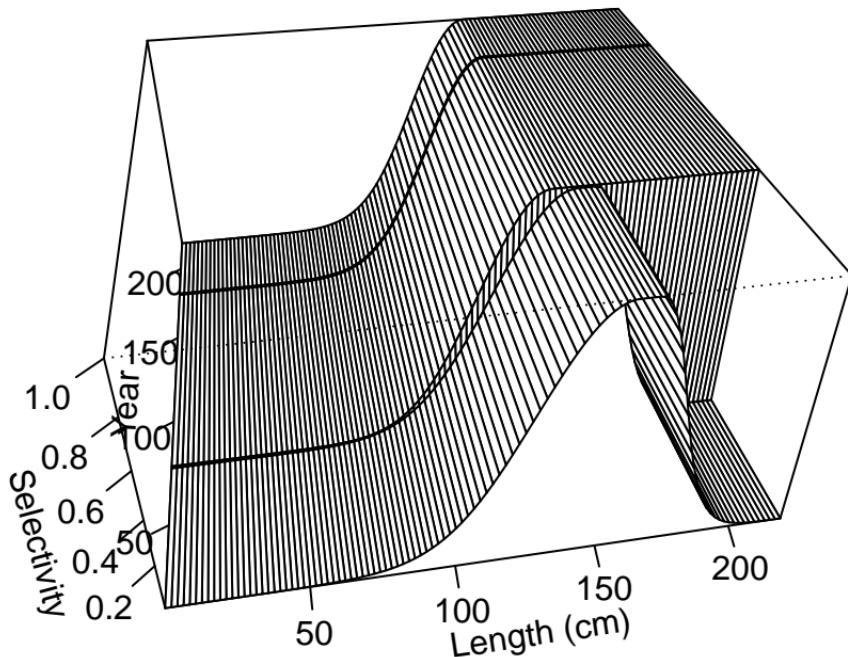
## Female ending year selectivity for A1-LL-n



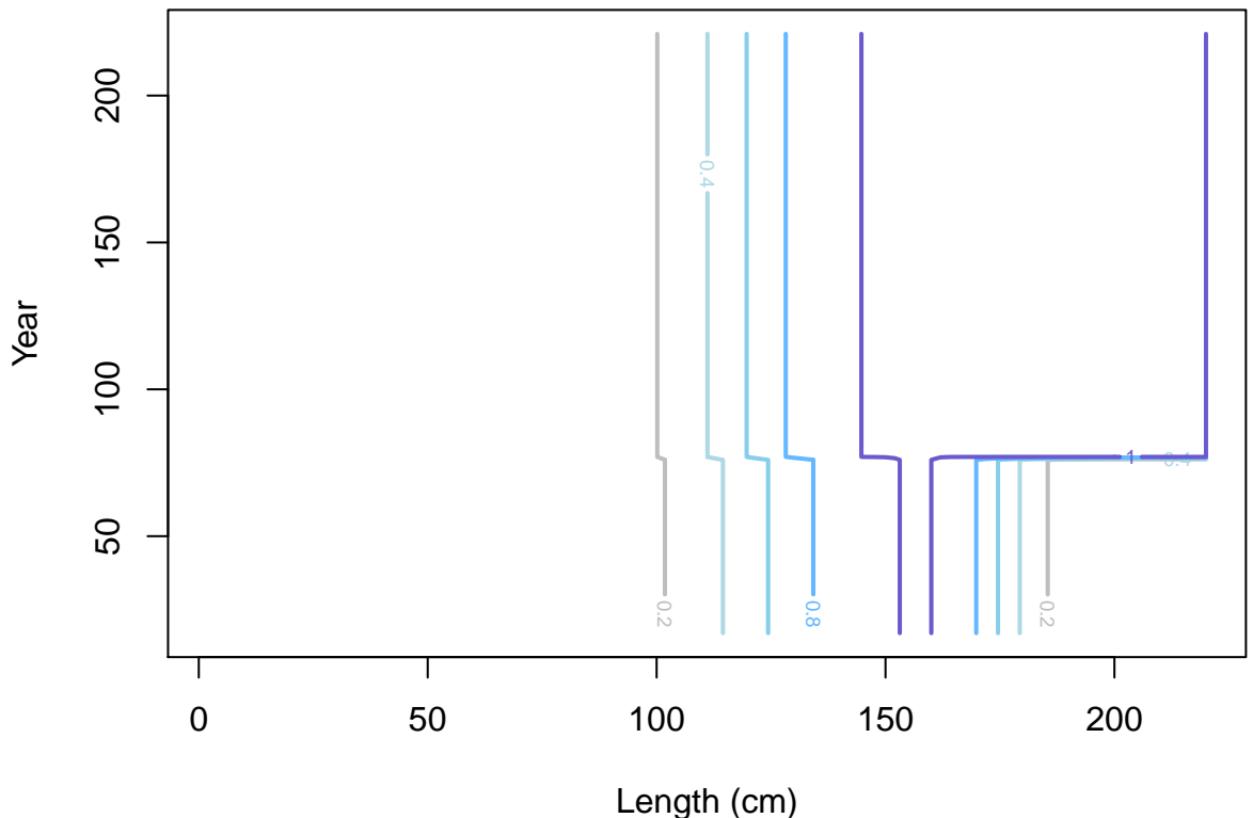
## Male ending year selectivity for A1-LL-n



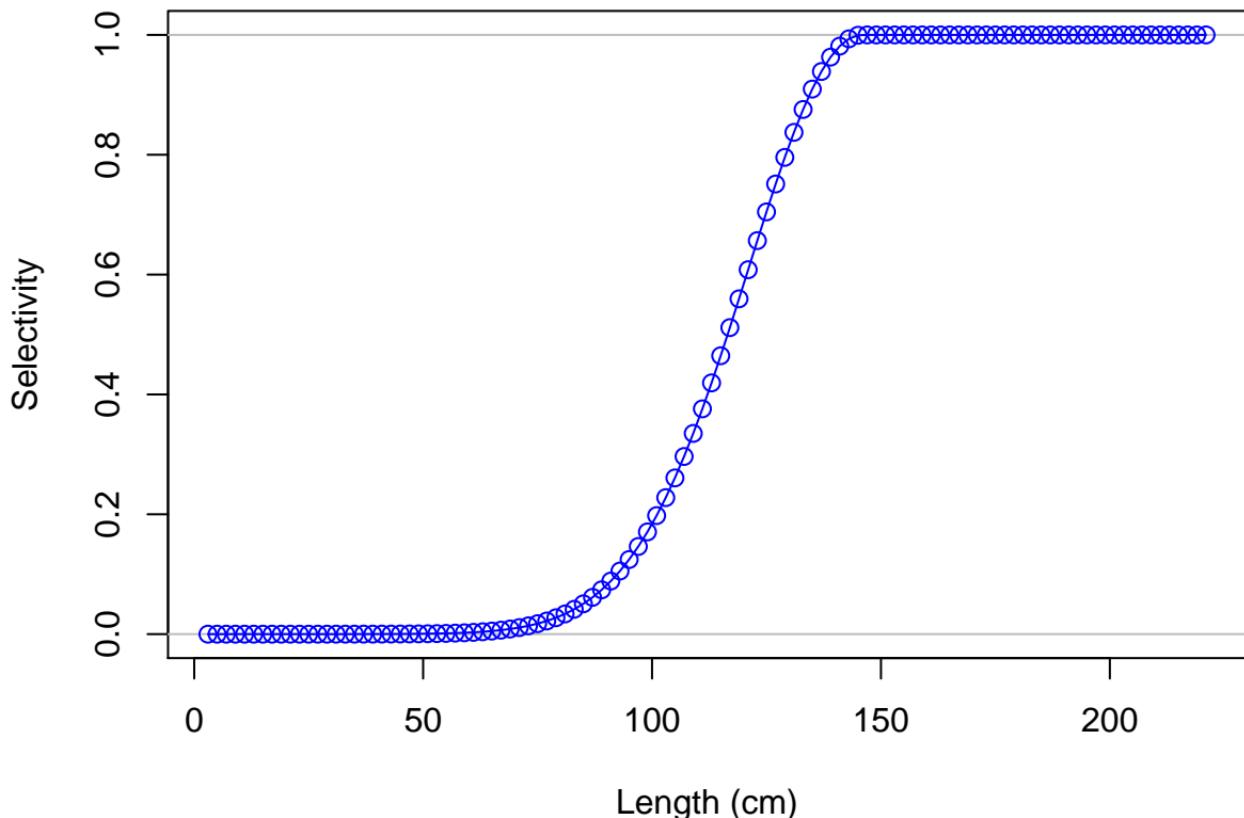
## Female time-varying selectivity for A2-LL-n



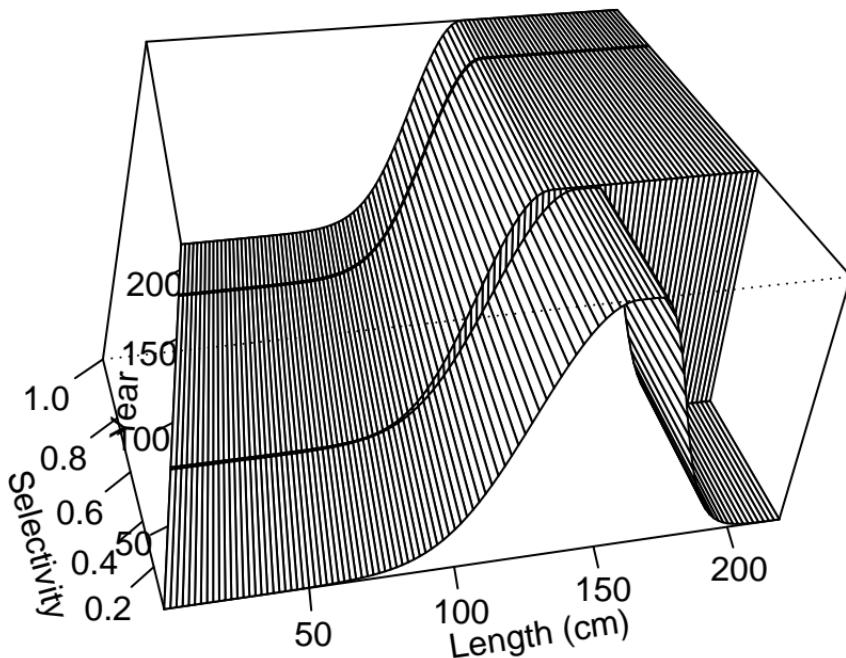
## Female time-varying selectivity for A2-LL-n



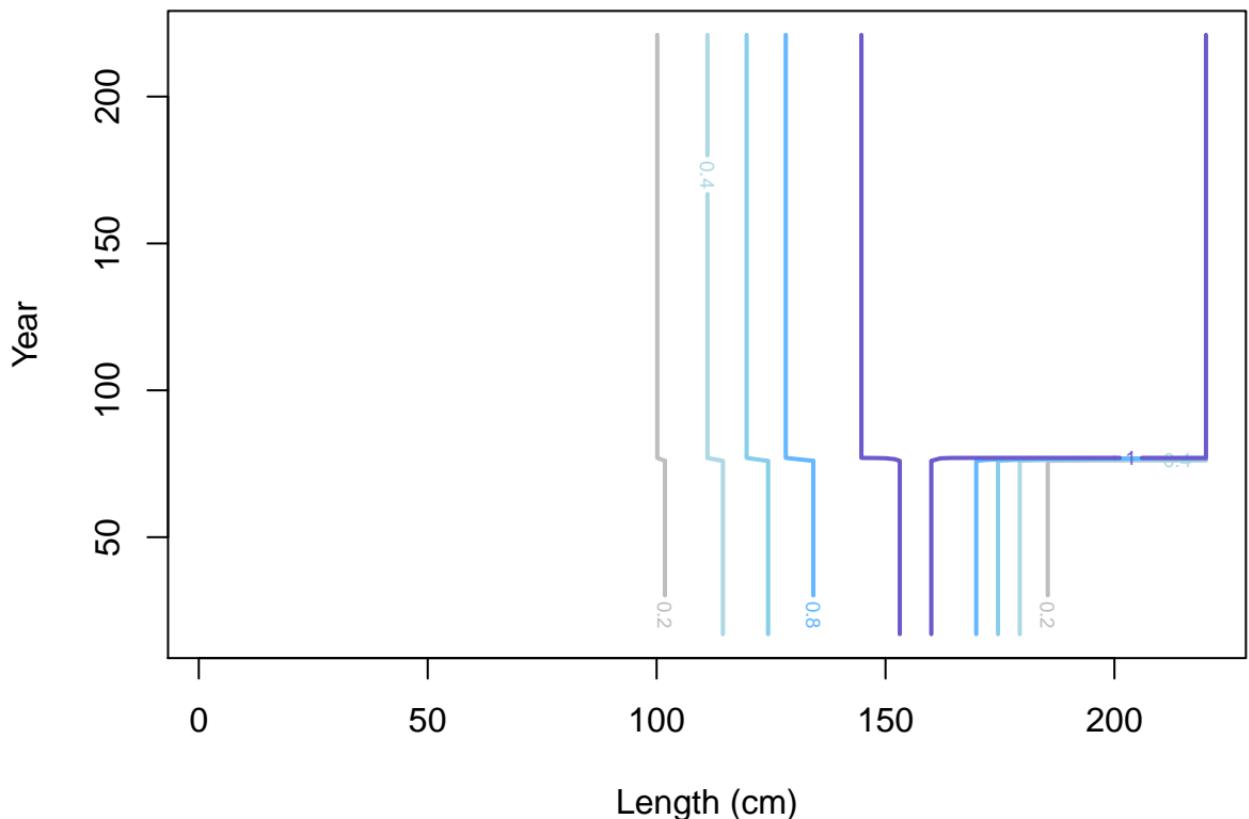
## Female ending year selectivity for A2–LL–n



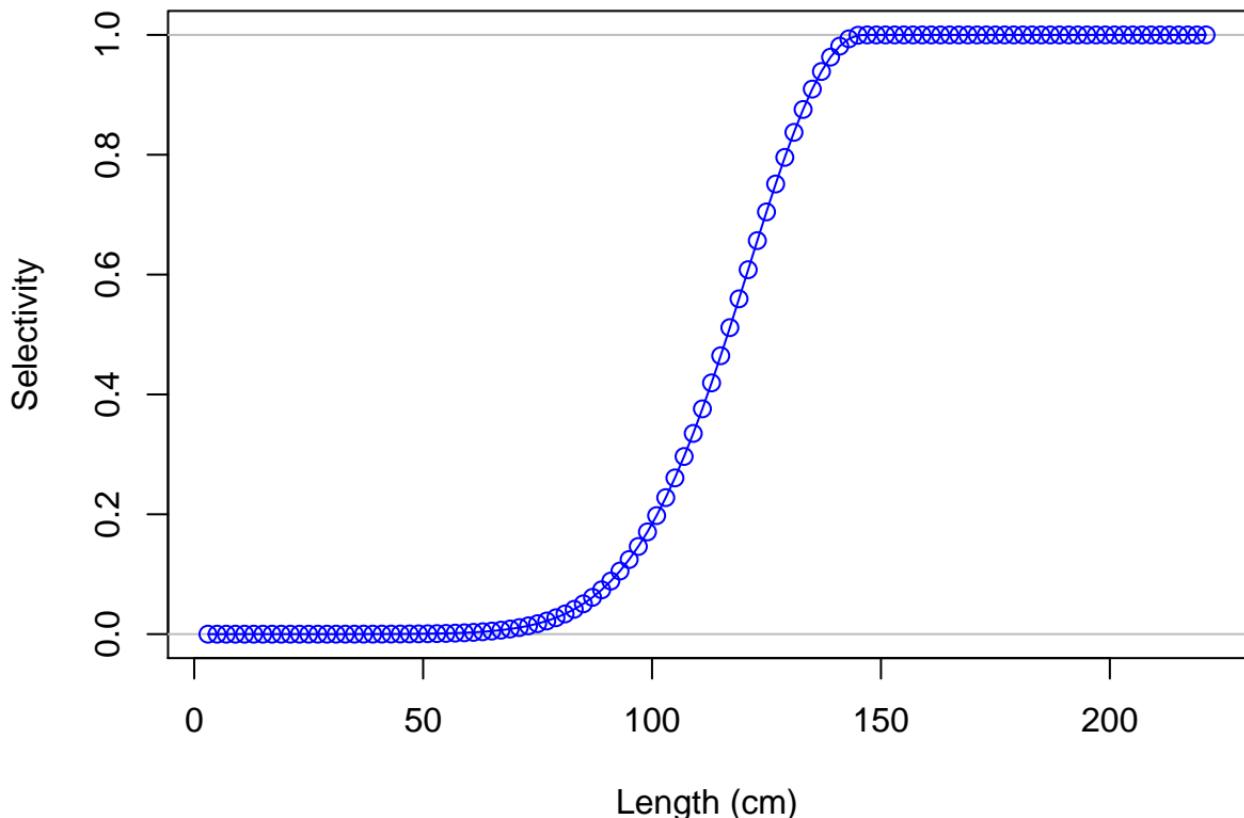
## Male time-varying selectivity for A2-LL-n



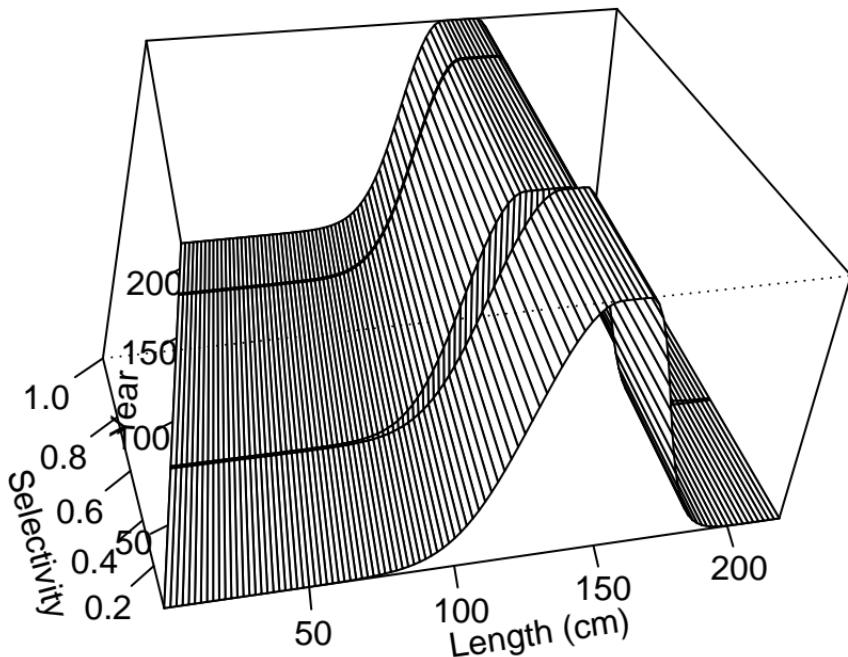
## Male time-varying selectivity for A2-LL-n



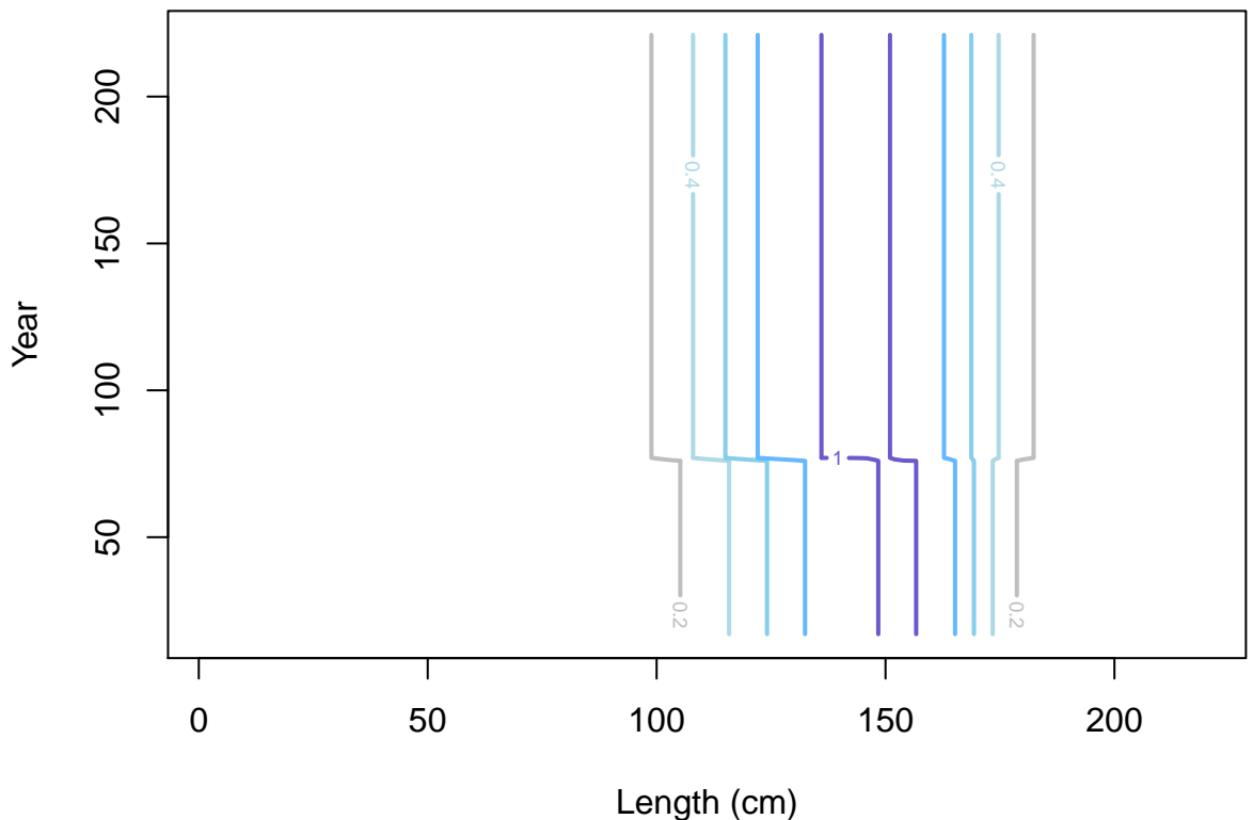
## Male ending year selectivity for A2-LL-n



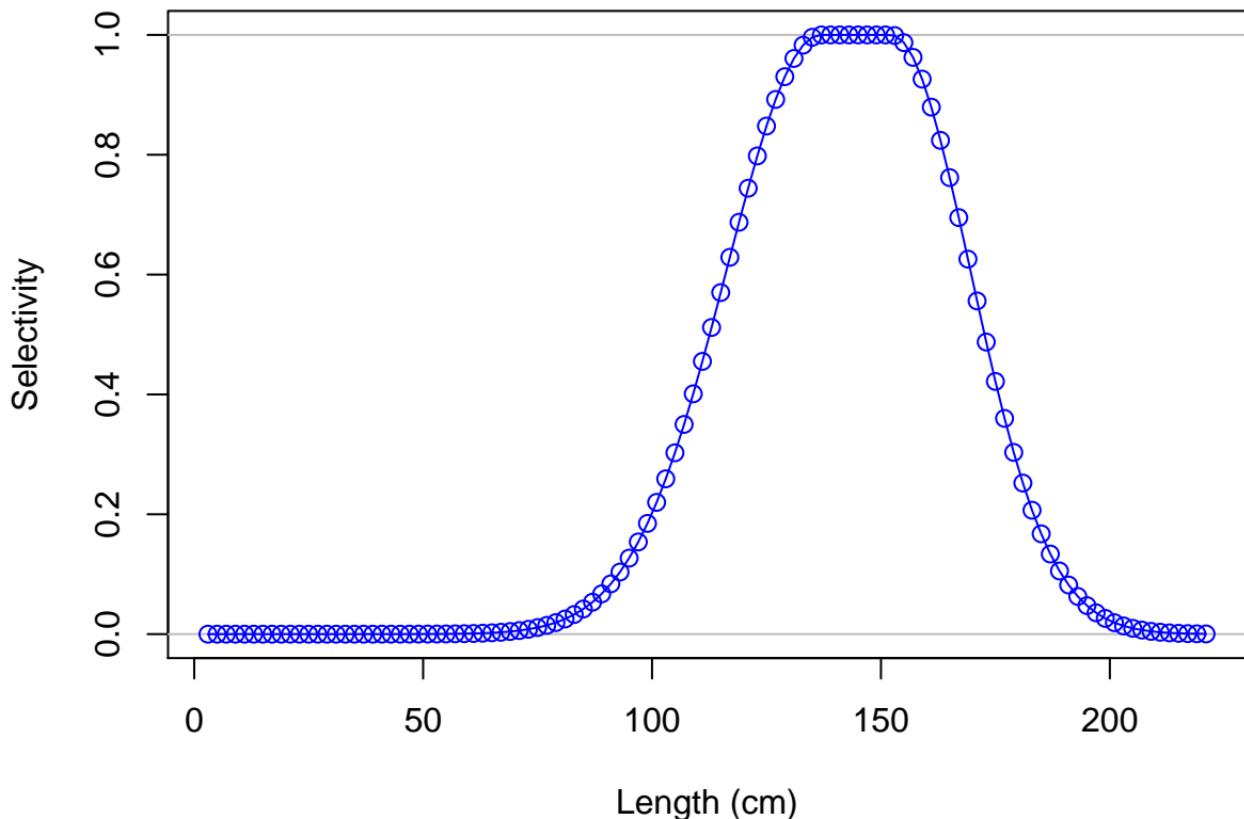
## Female time-varying selectivity for A3-LL-n



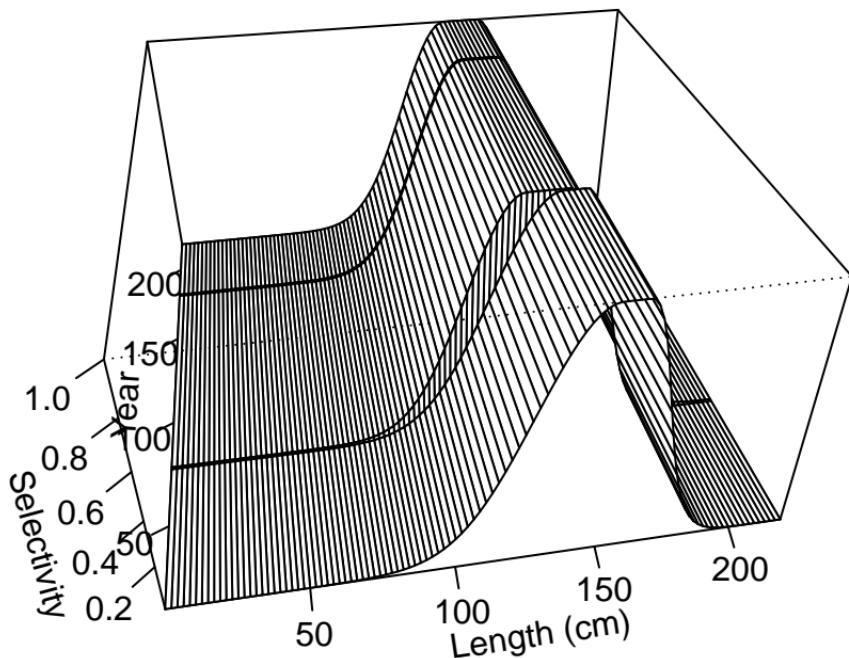
## Female time-varying selectivity for A3-LL-n



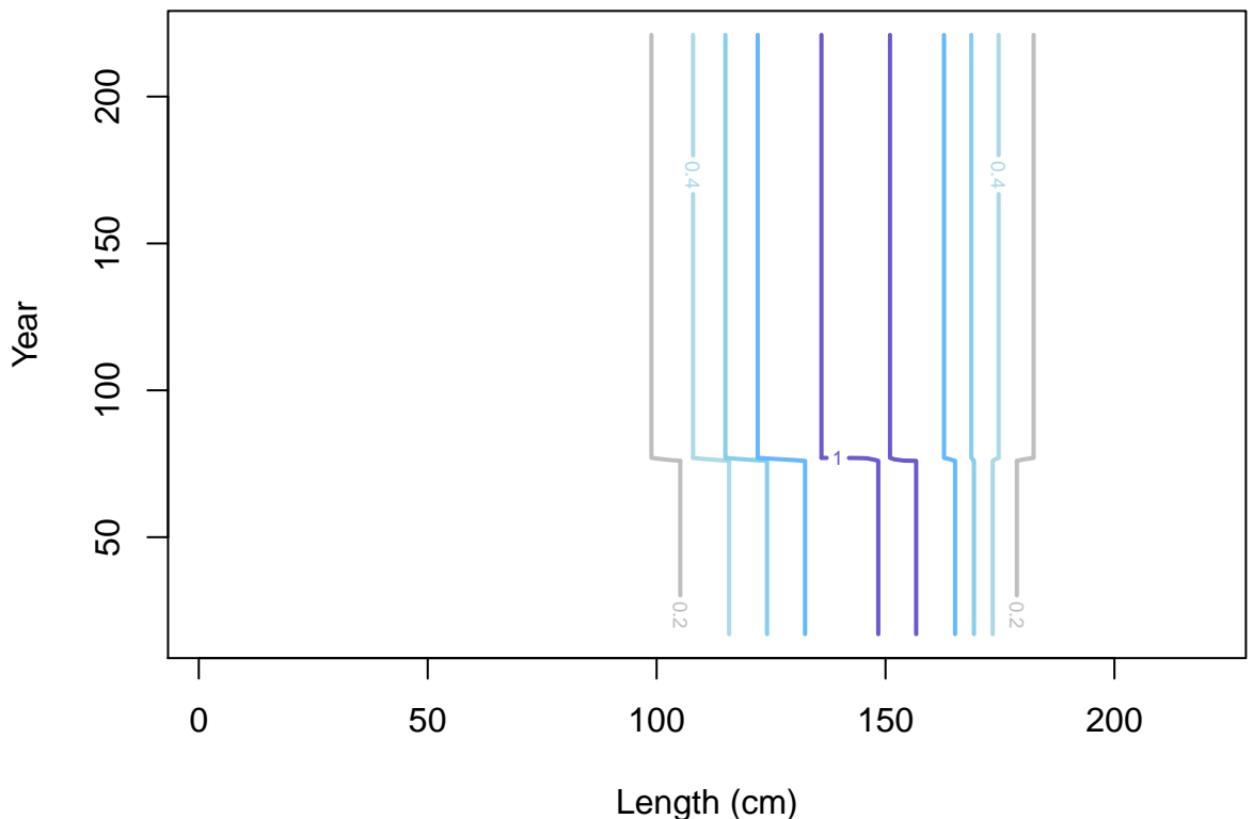
## Female ending year selectivity for A3–LL–n



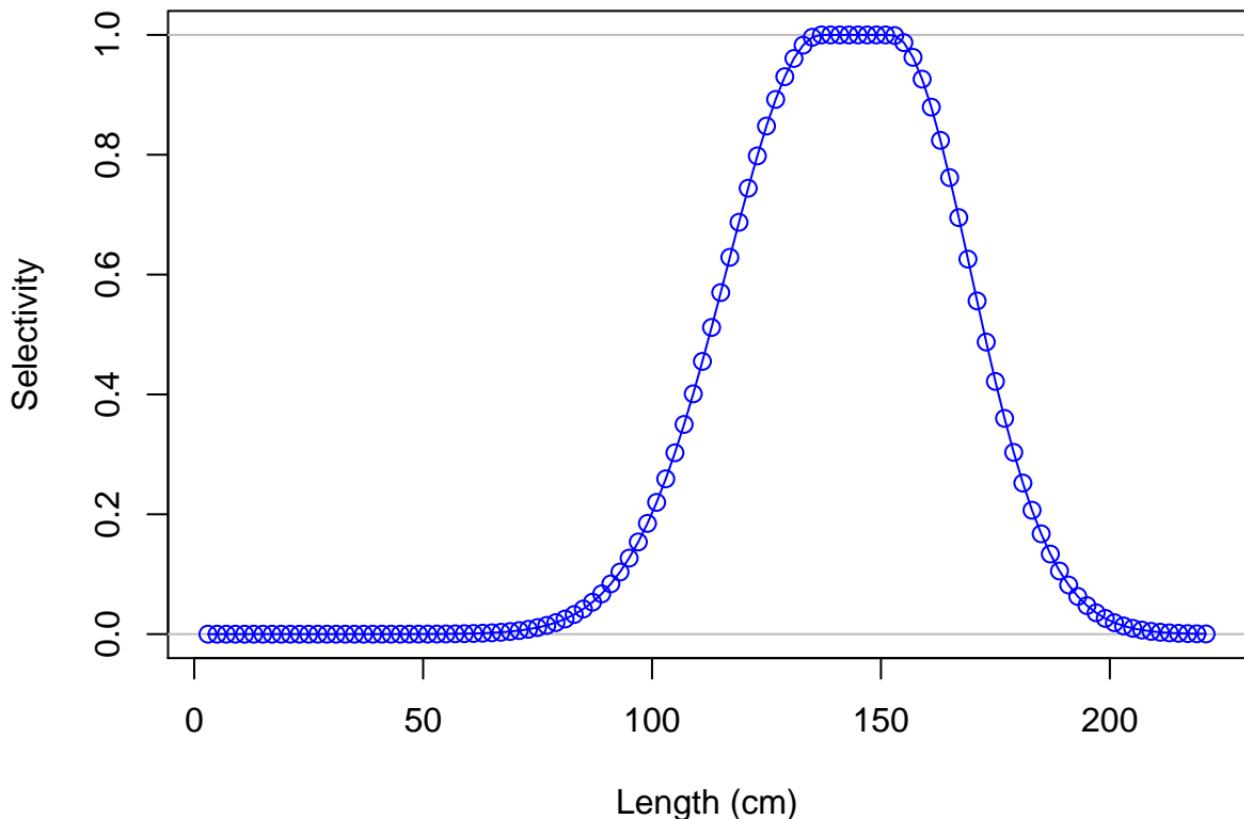
## Male time-varying selectivity for A3-LL-n



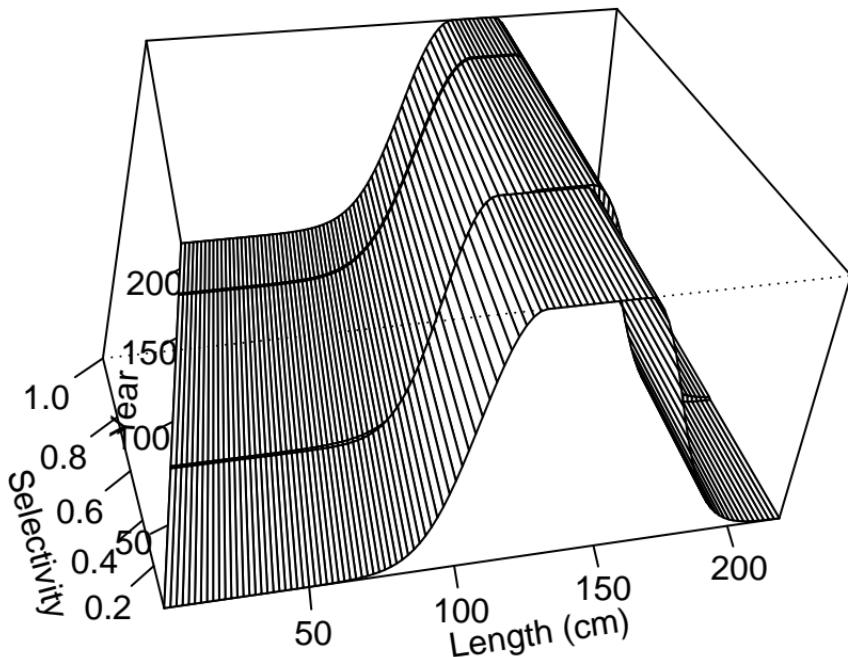
## Male time-varying selectivity for A3-LL-n



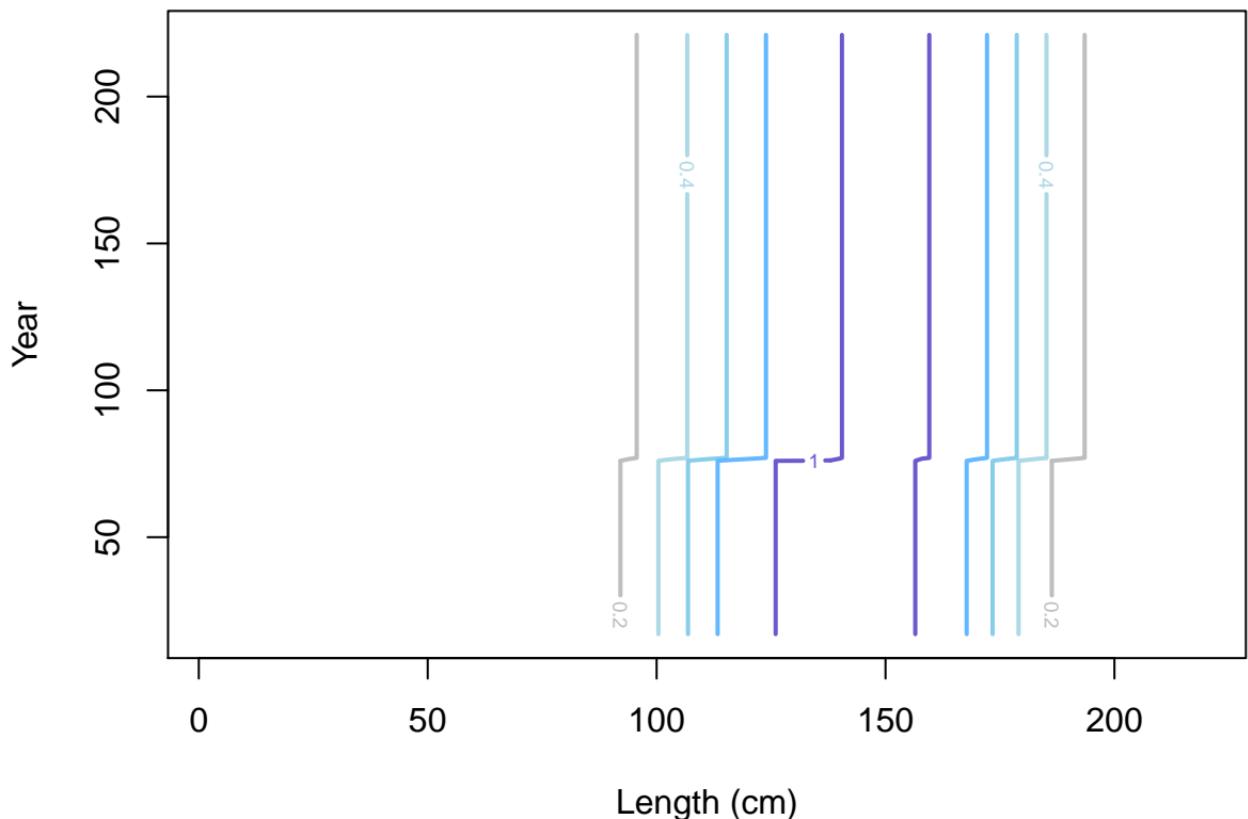
## Male ending year selectivity for A3-LL-n



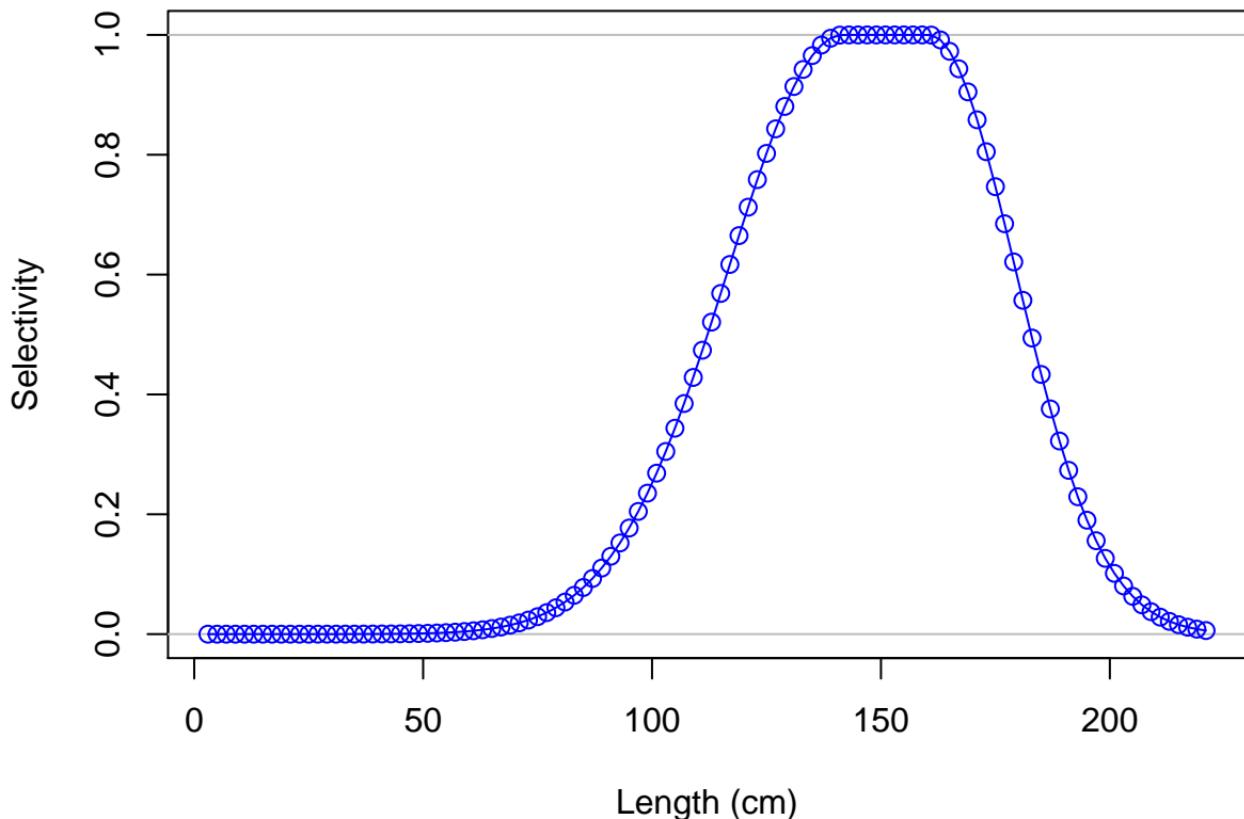
## Female time-varying selectivity for A4-LL-n



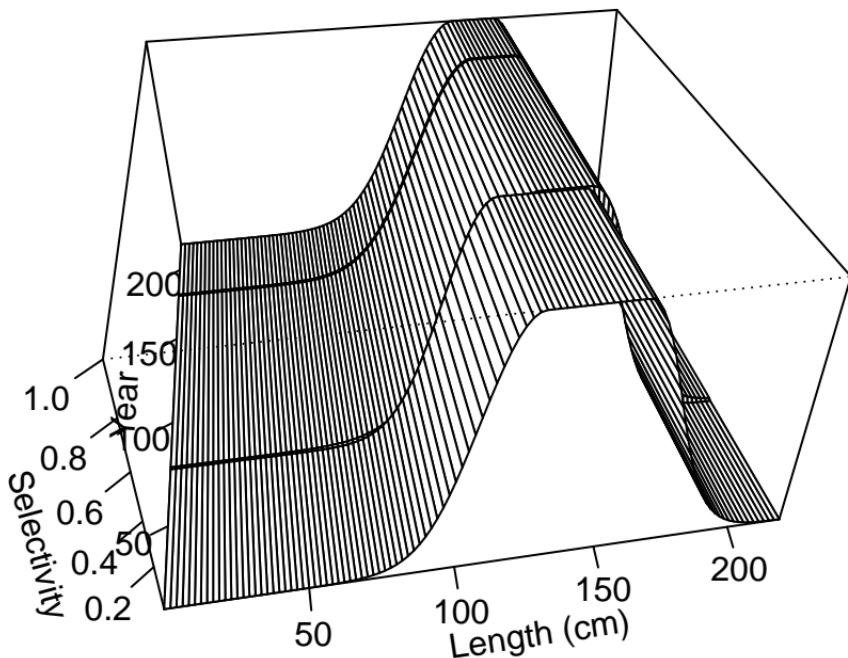
## Female time-varying selectivity for A4-LL-n



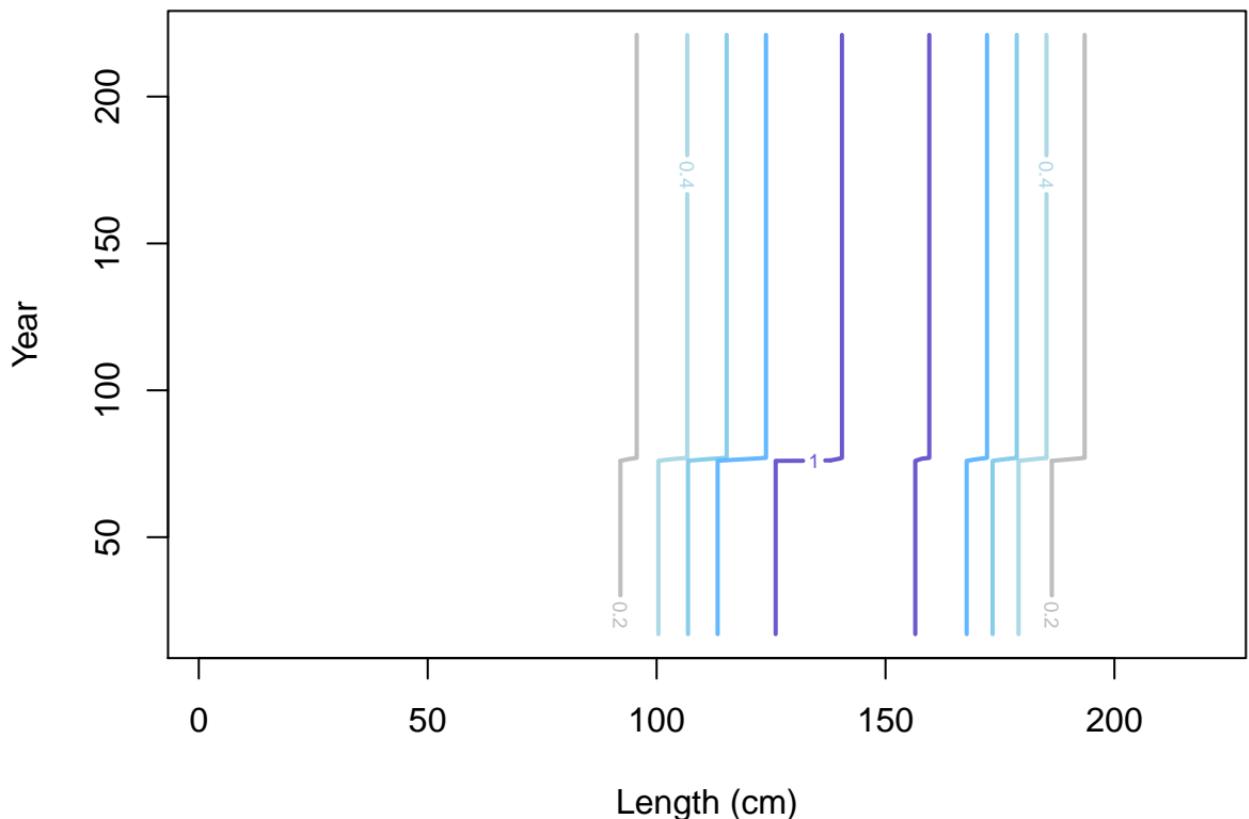
## Female ending year selectivity for A4-LL-n



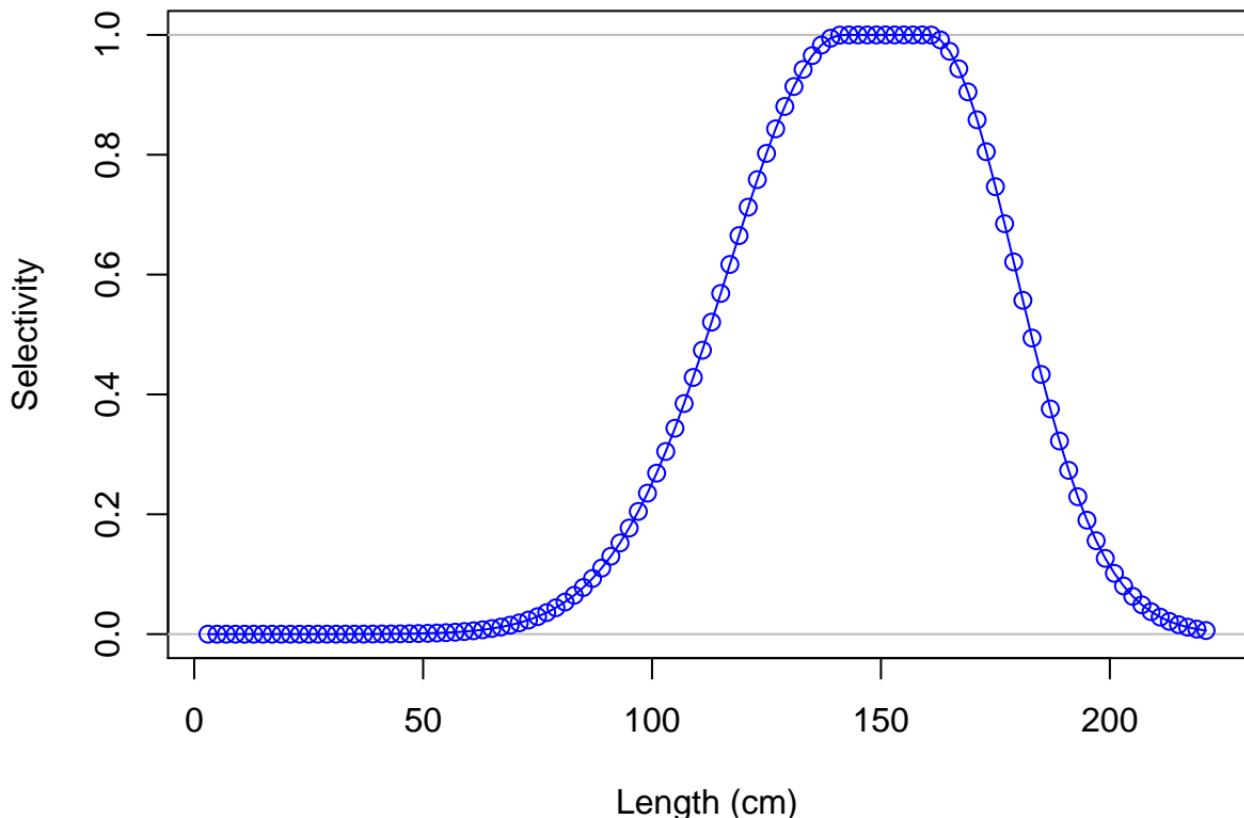
## Male time-varying selectivity for A4-LL-n



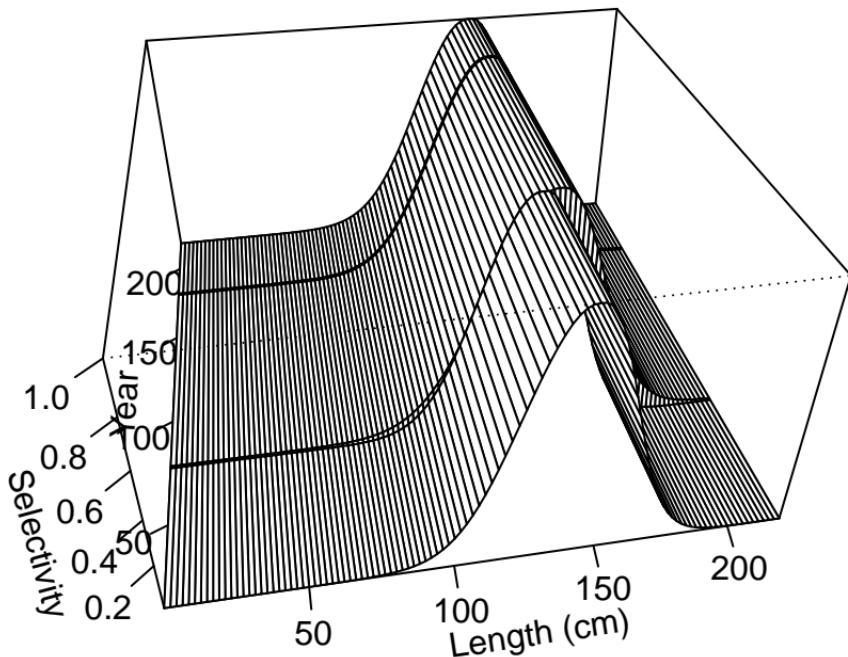
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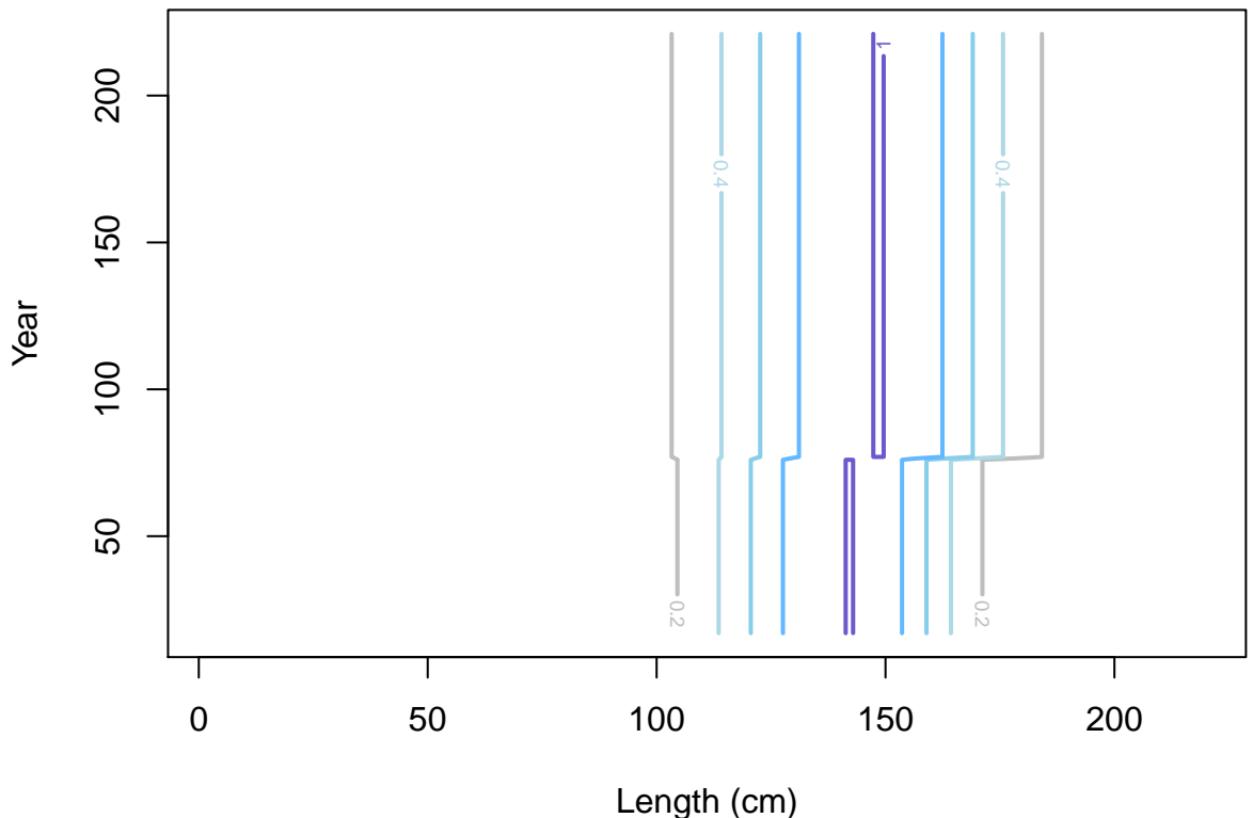
## Male ending year selectivity for A4-LL-n



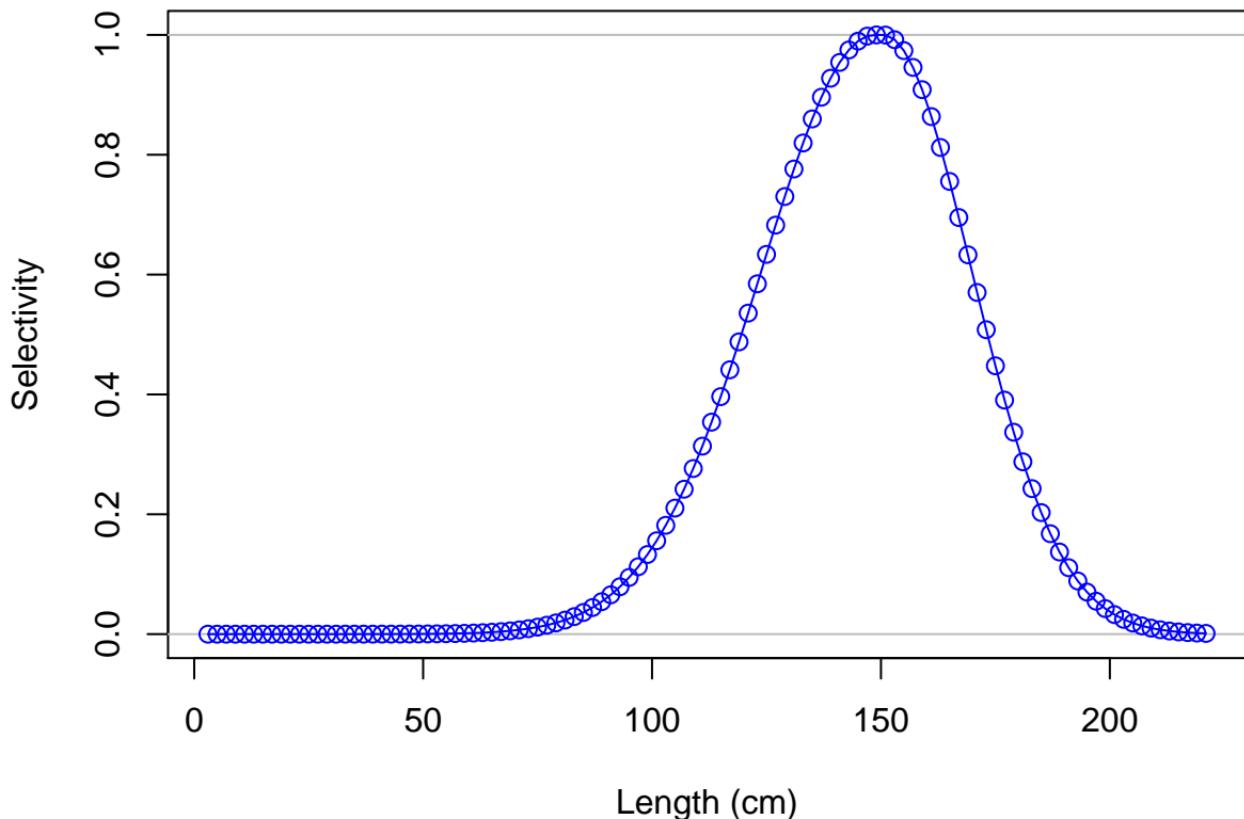
## Female time-varying selectivity for A5-LL-n



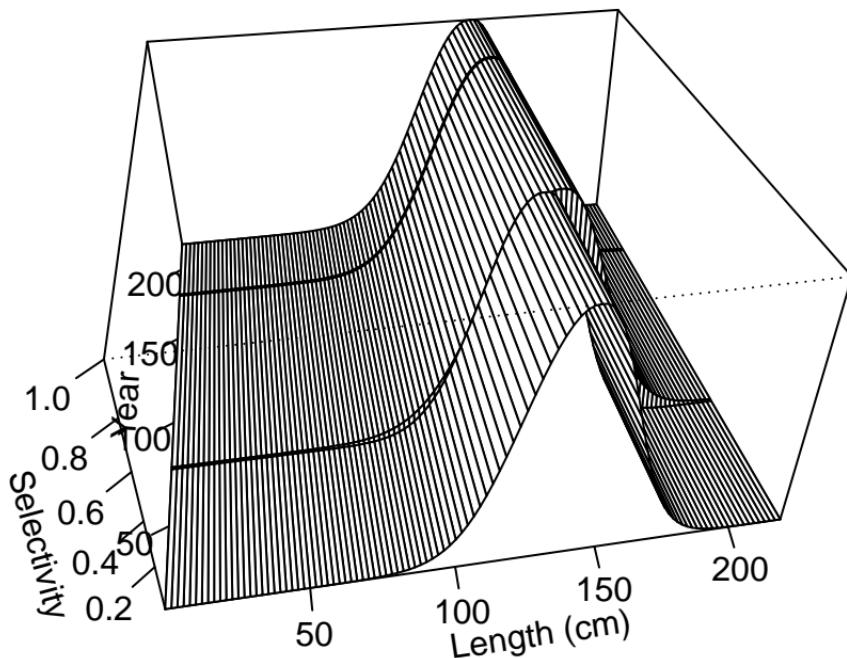
## Female time-varying selectivity for A5-LL-n



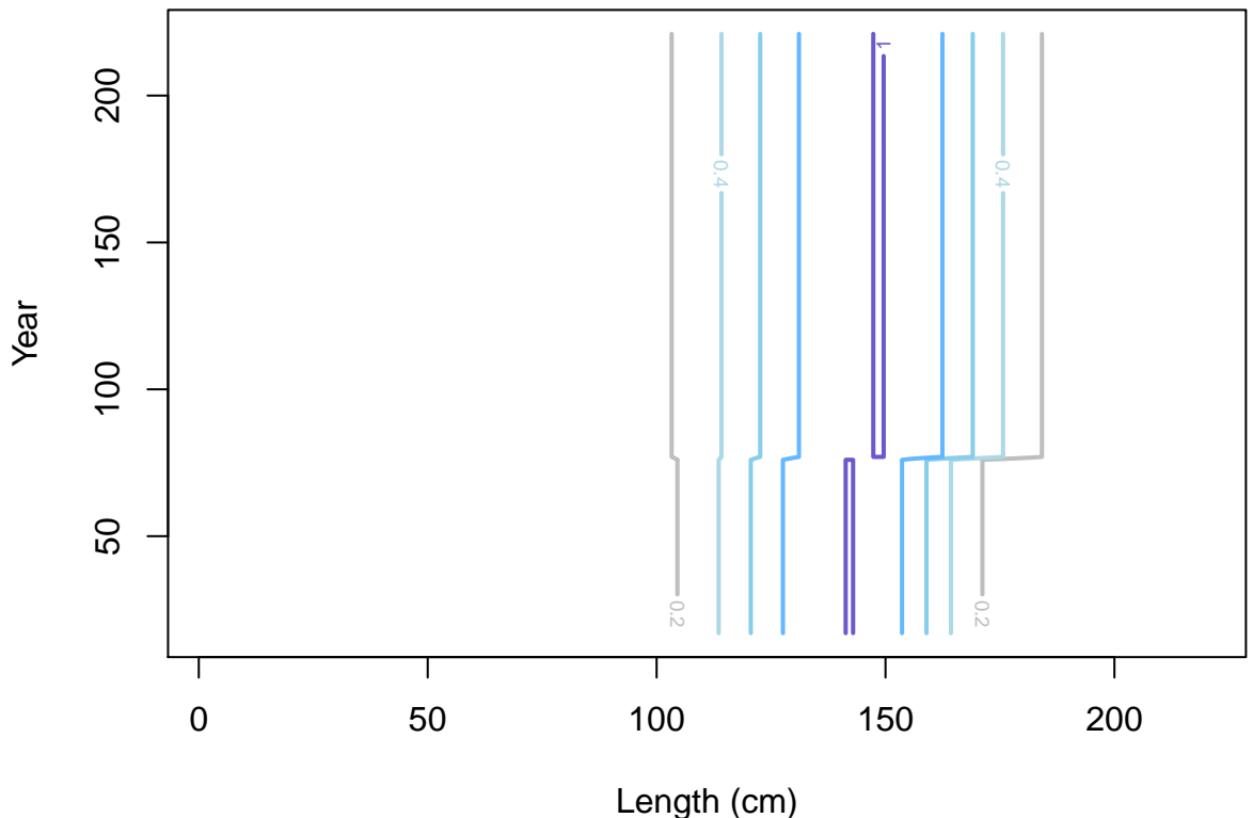
## Female ending year selectivity for A5-LL-n



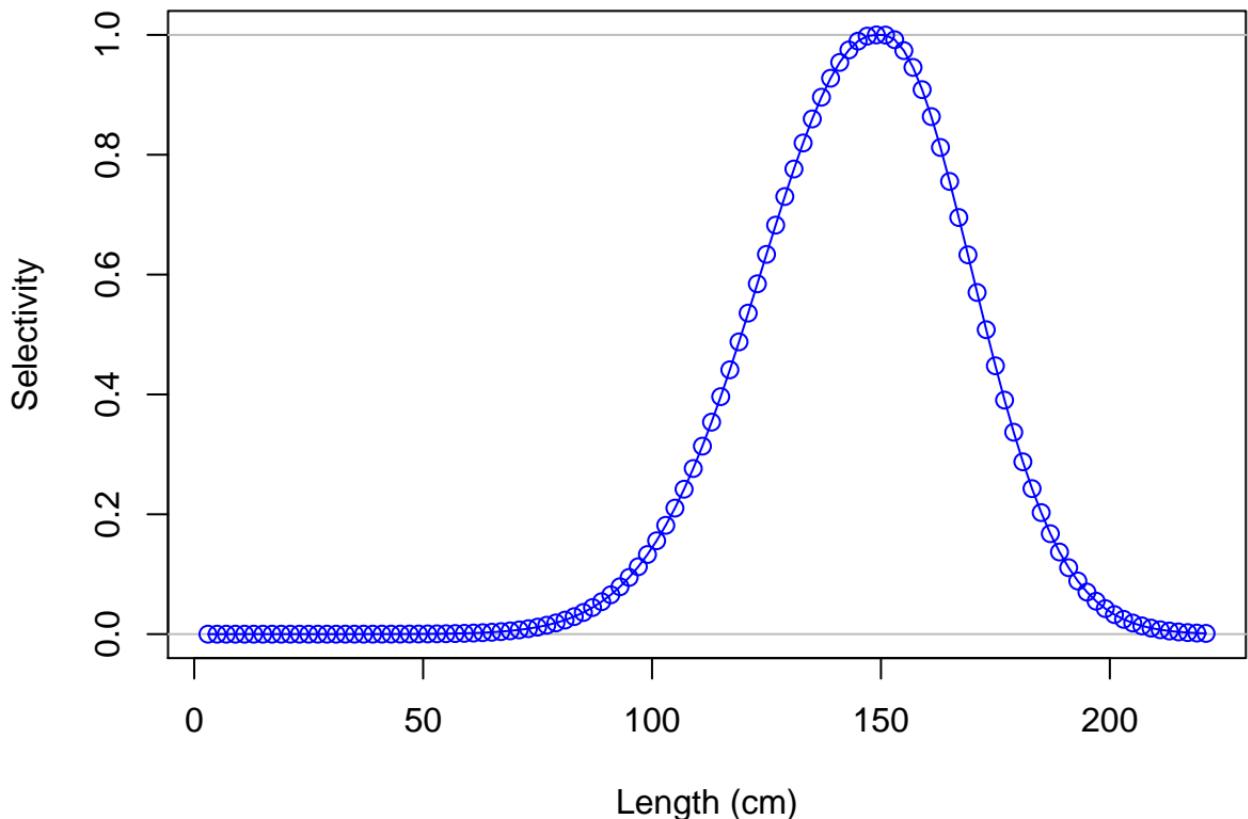
## Male time-varying selectivity for A5-LL-n



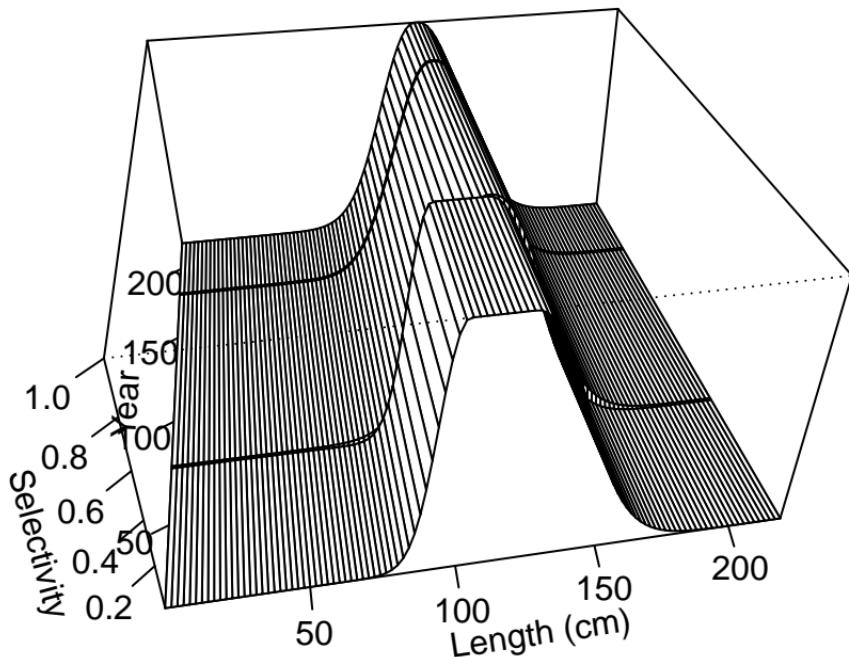
## Male time-varying selectivity for A5-LL-n



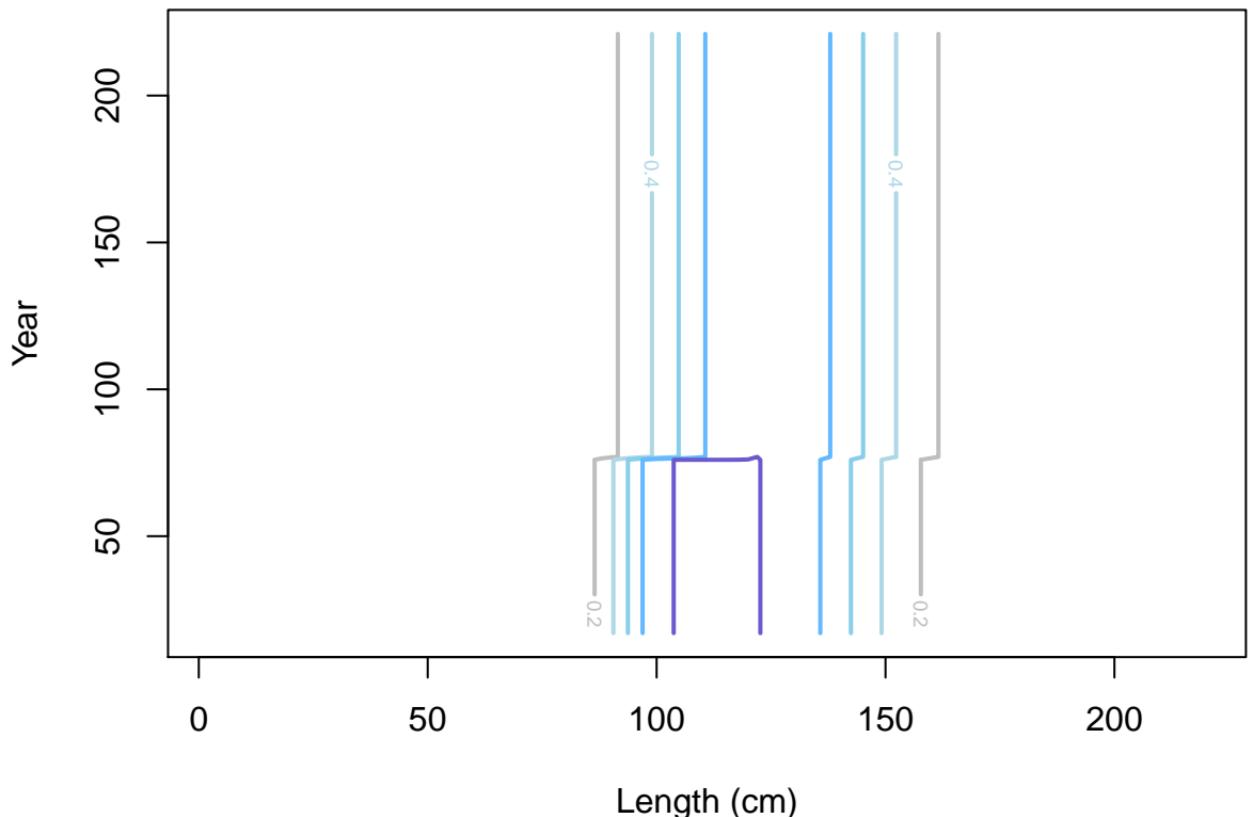
## Male ending year selectivity for A5-LL-n



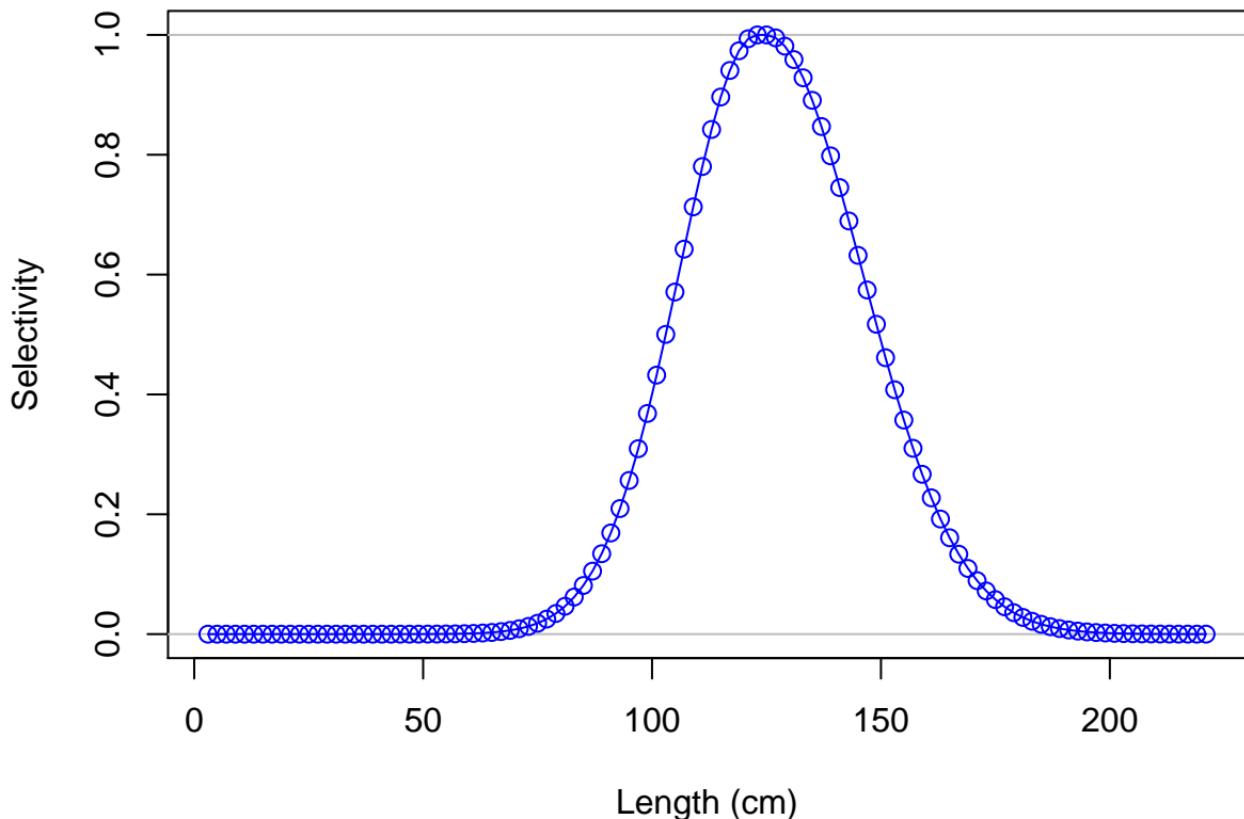
## Female time-varying selectivity for A6-LL-n



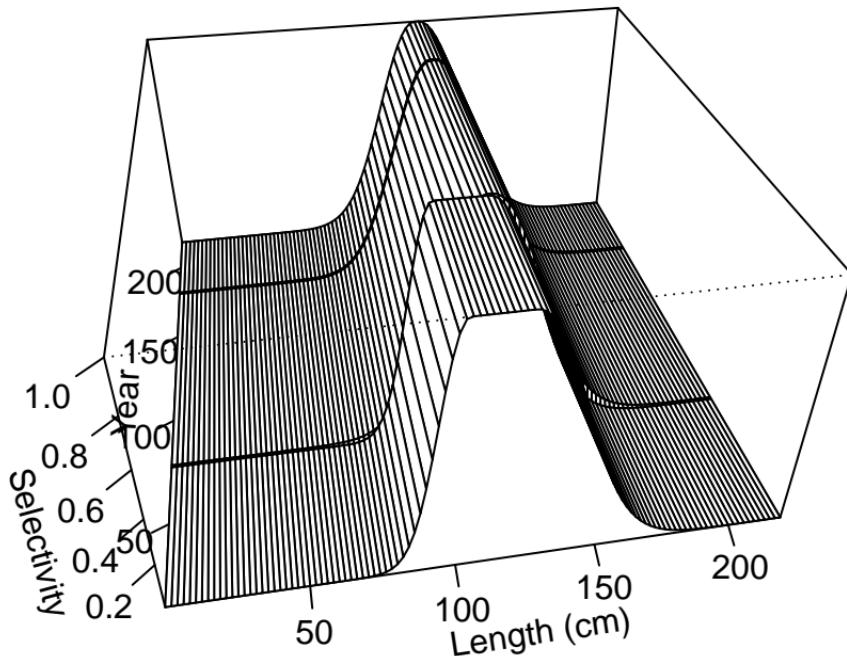
## Female time-varying selectivity for A6-LL-n



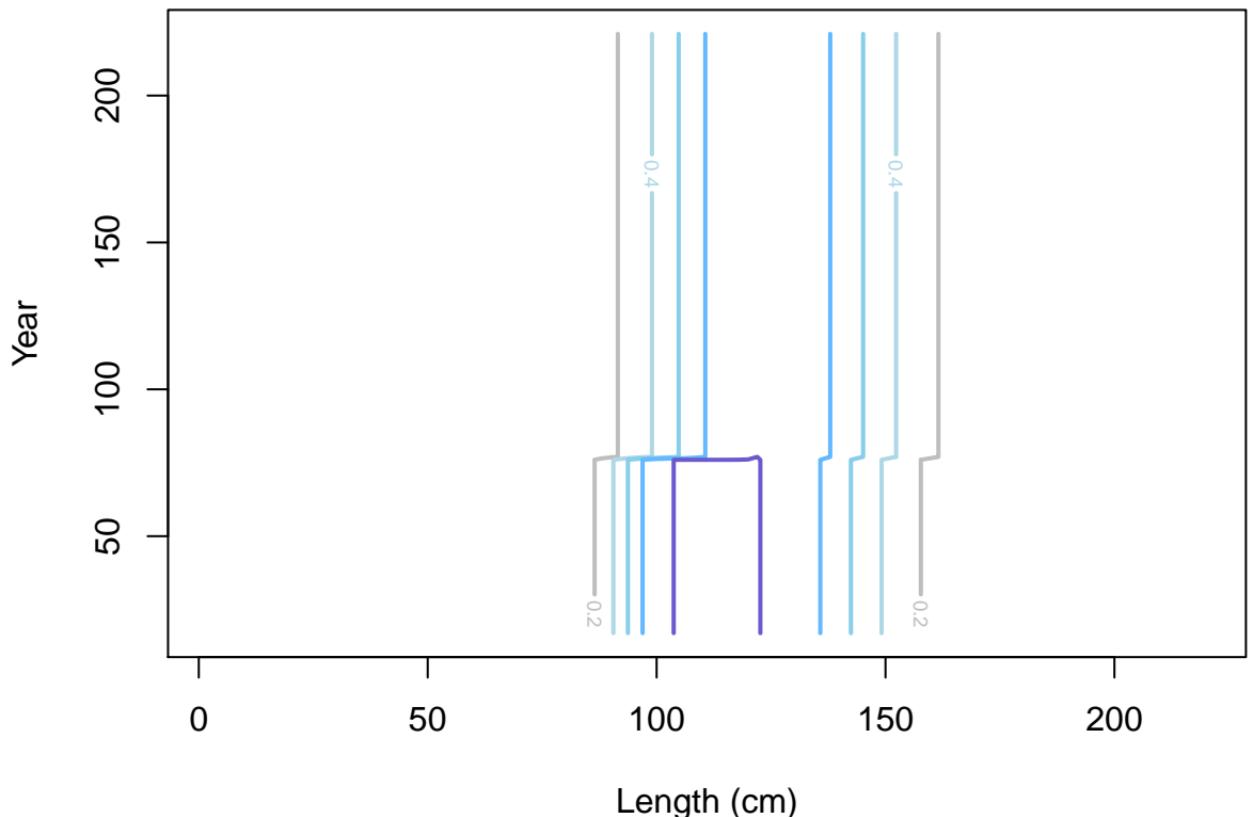
## Female ending year selectivity for A6–LL–n



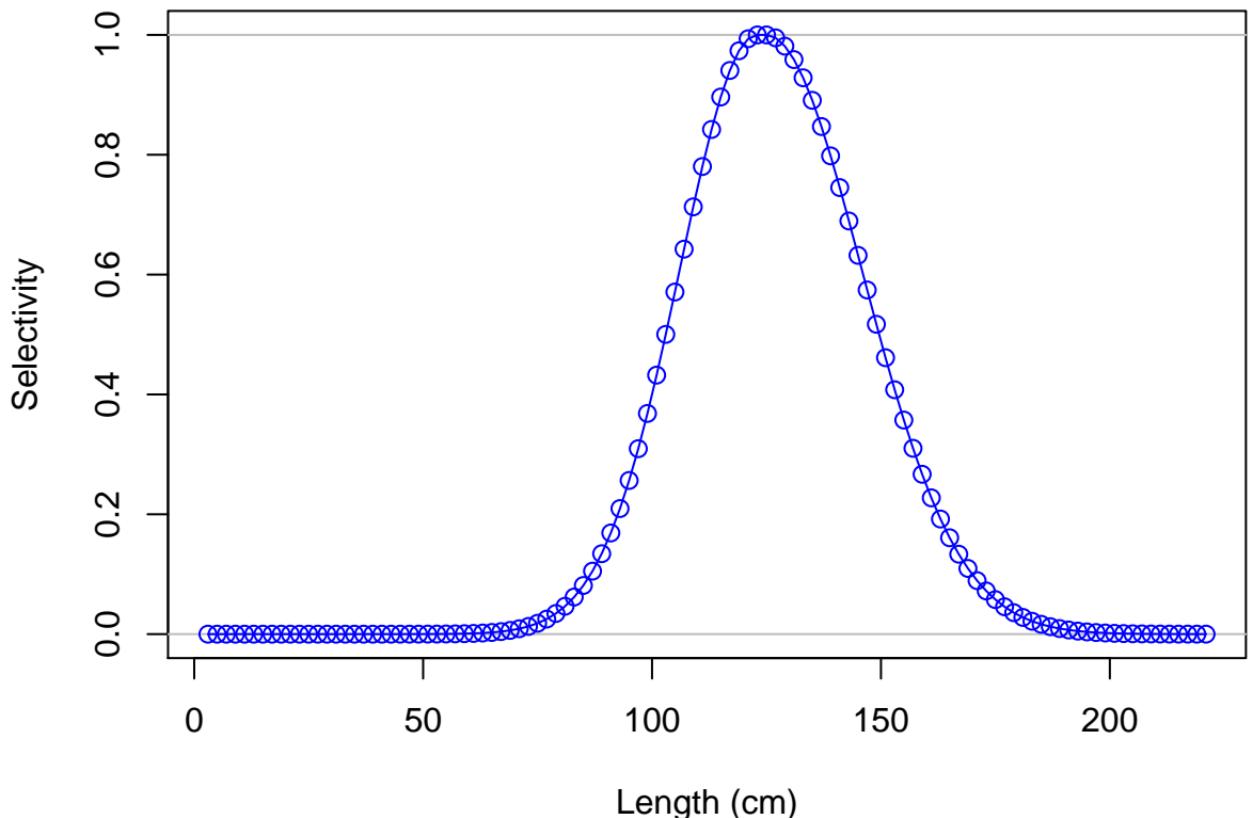
## Male time-varying selectivity for A6-LL-n



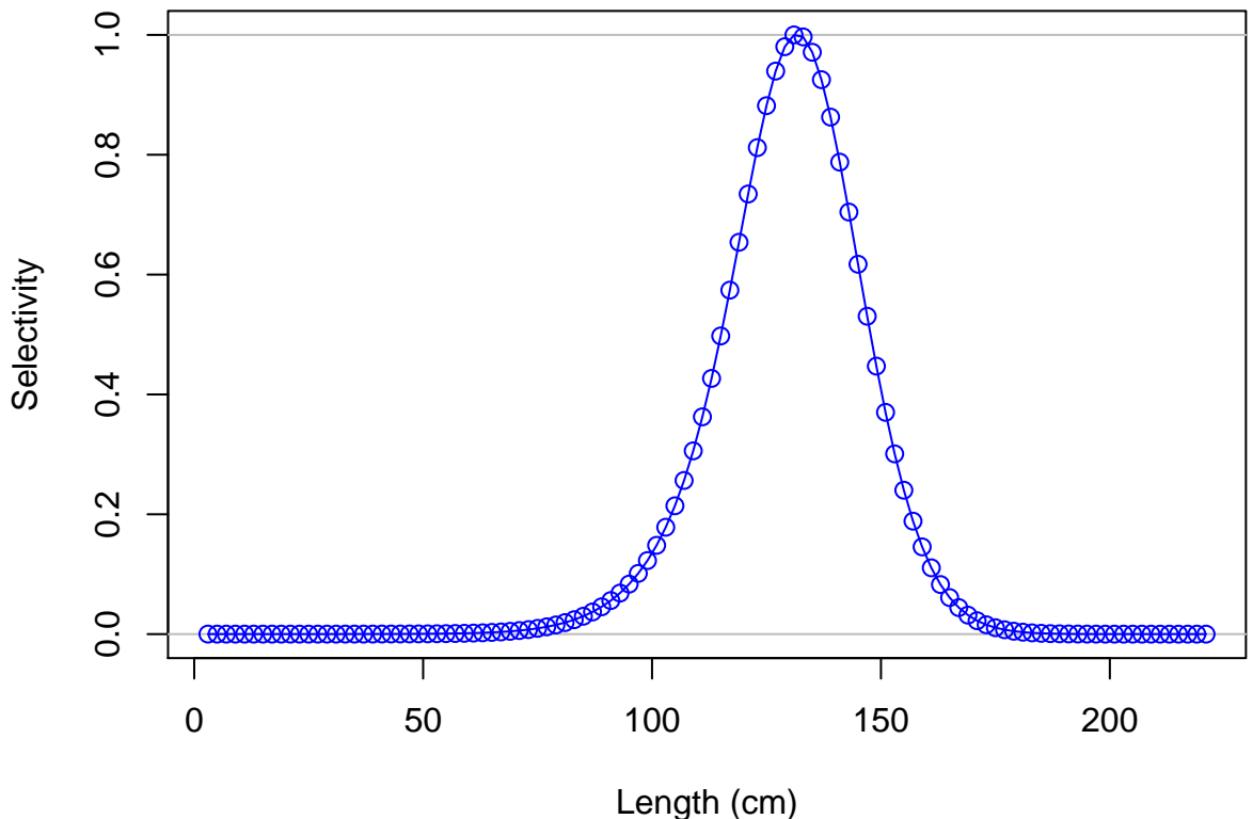
## Male time-varying selectivity for A6-LL-n



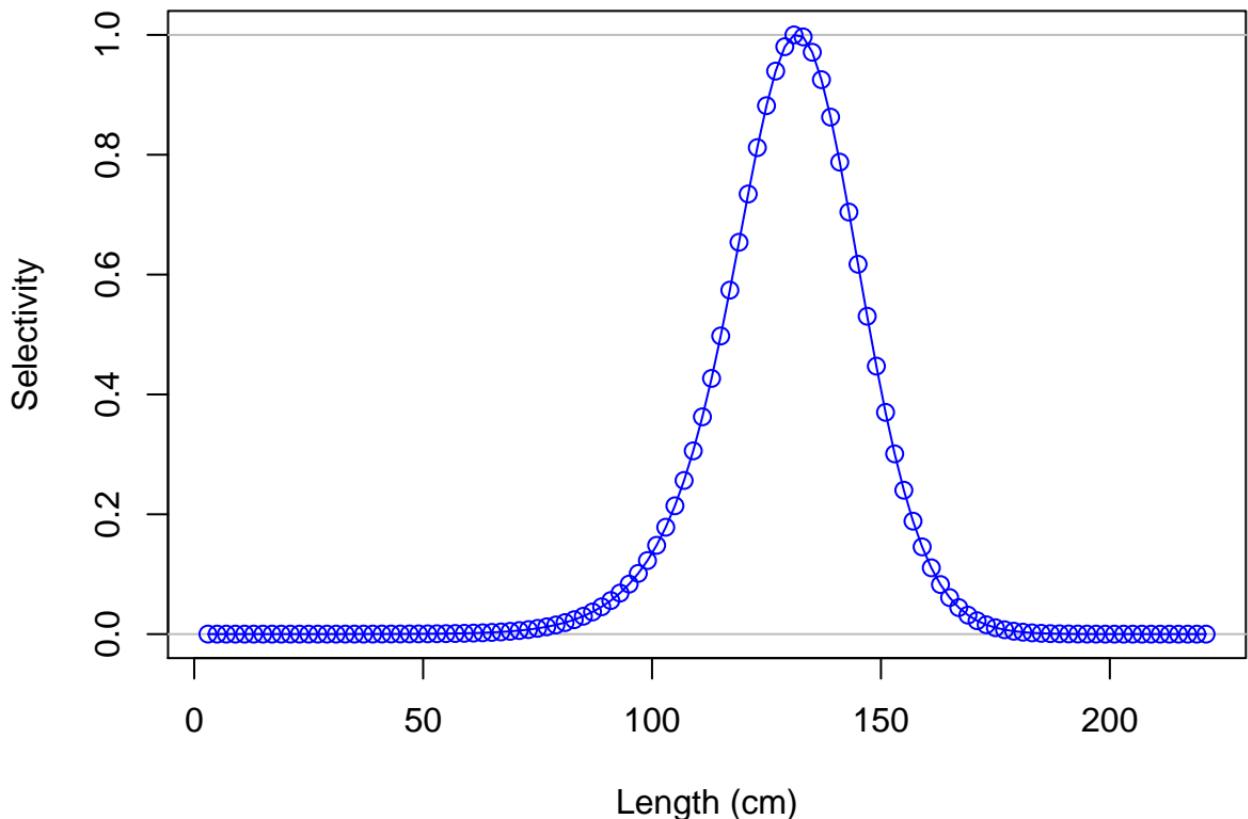
## Male ending year selectivity for A6-LL-n



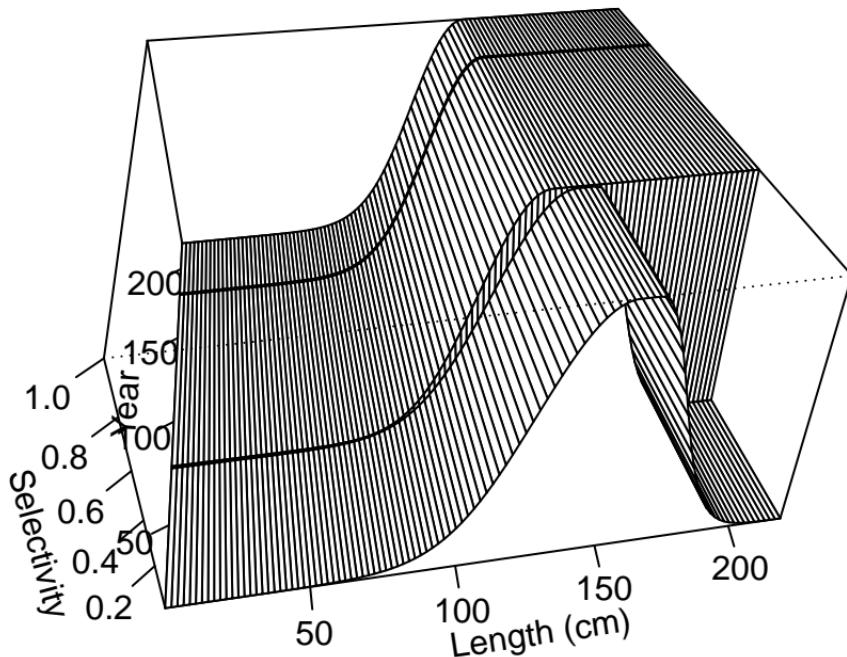
## Female ending year selectivity for A1-LL-w



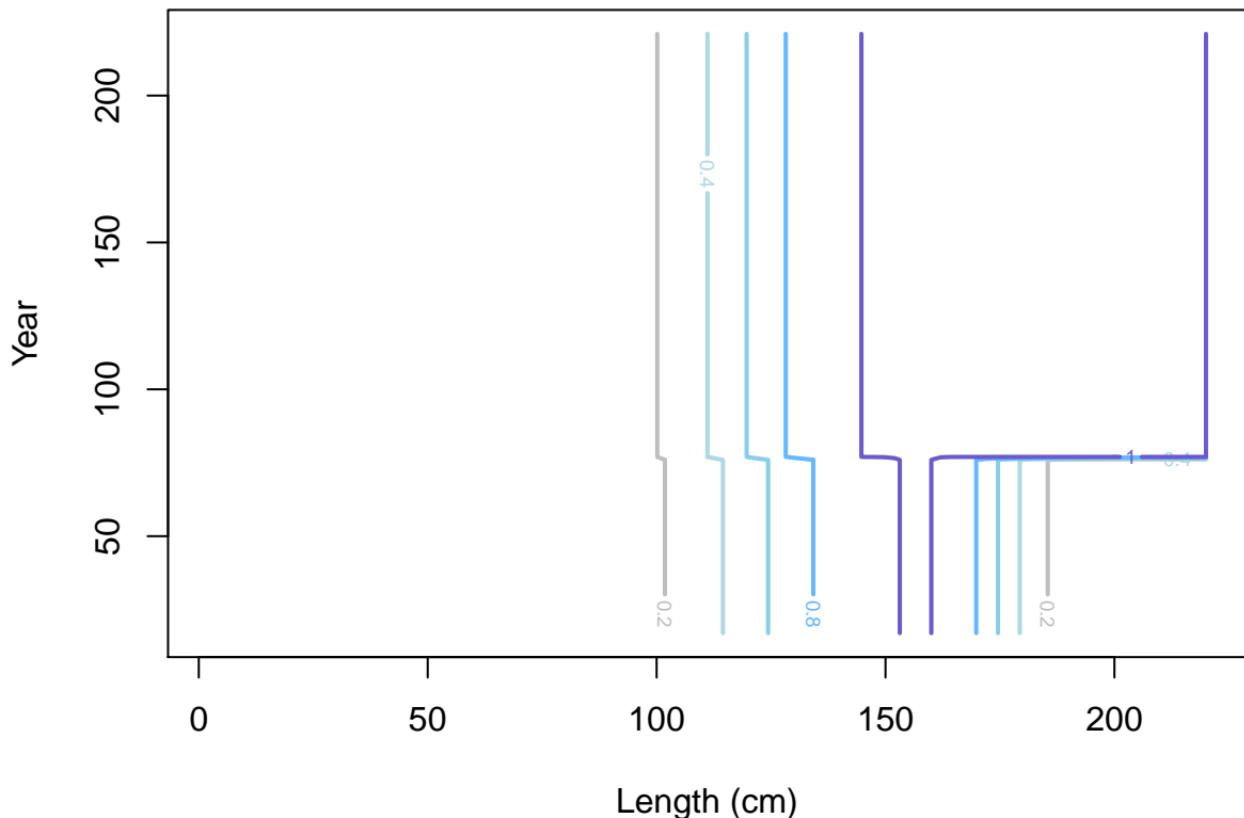
## Male ending year selectivity for A1-LL-w



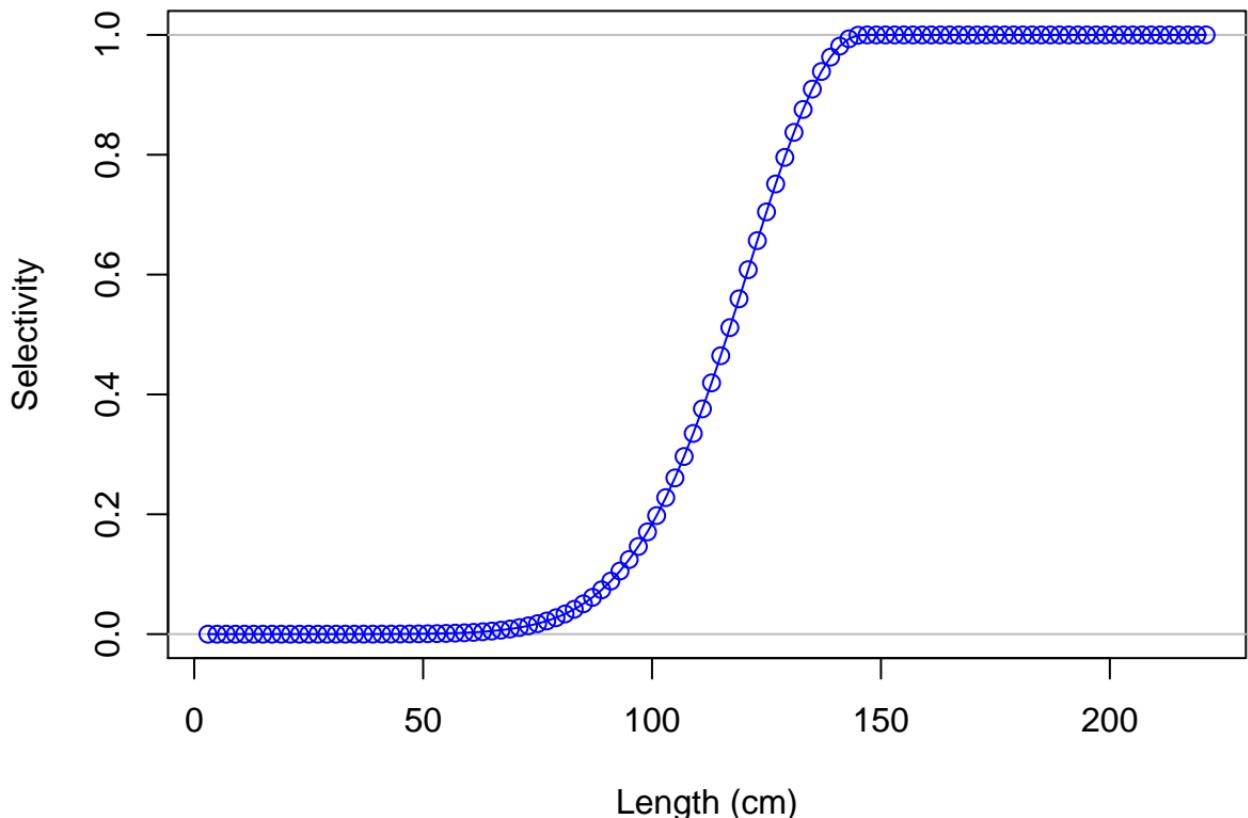
## Female time-varying selectivity for A2-LL-w



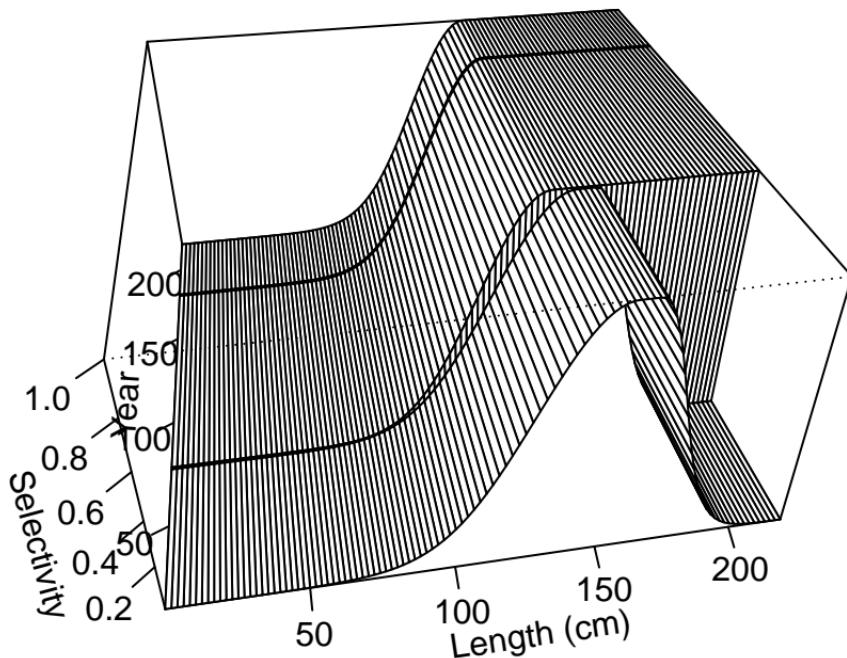
## Female time-varying selectivity for A2-LL-w



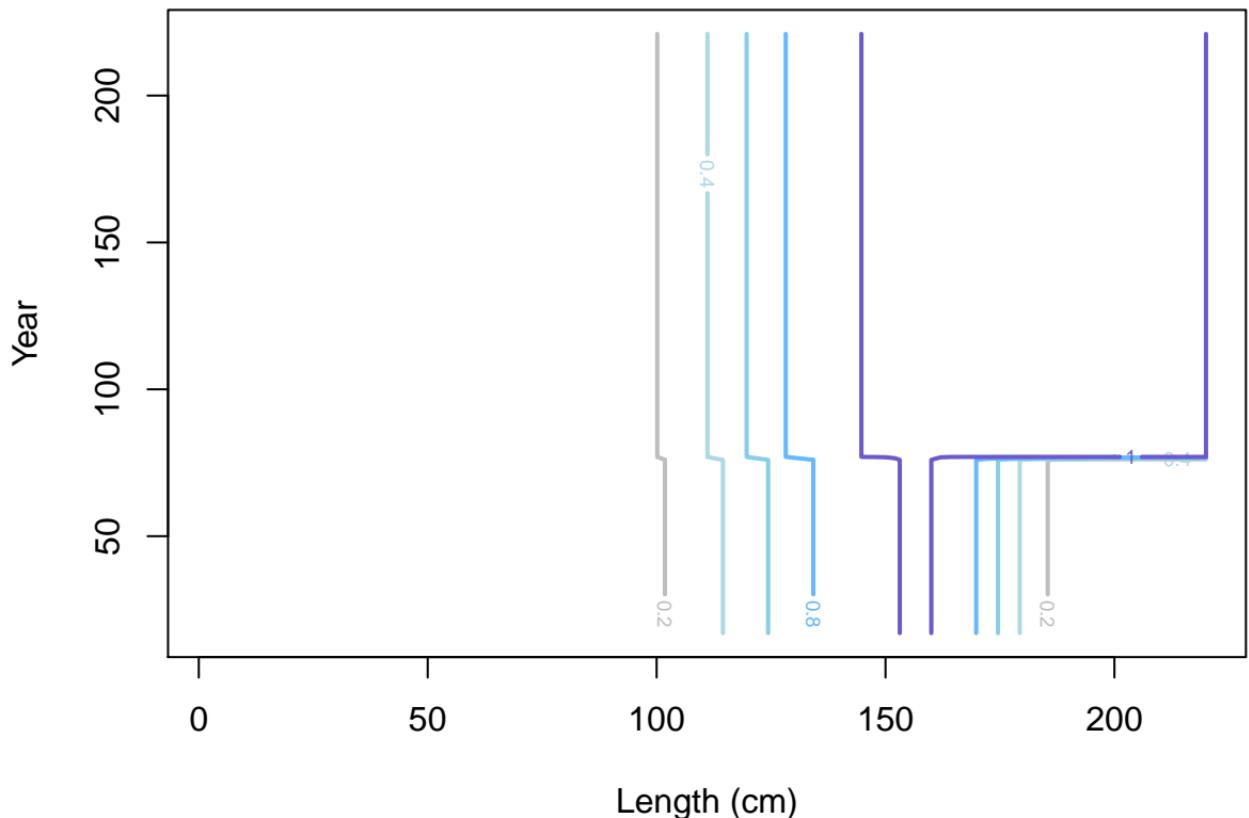
## Female ending year selectivity for A2-LL-w



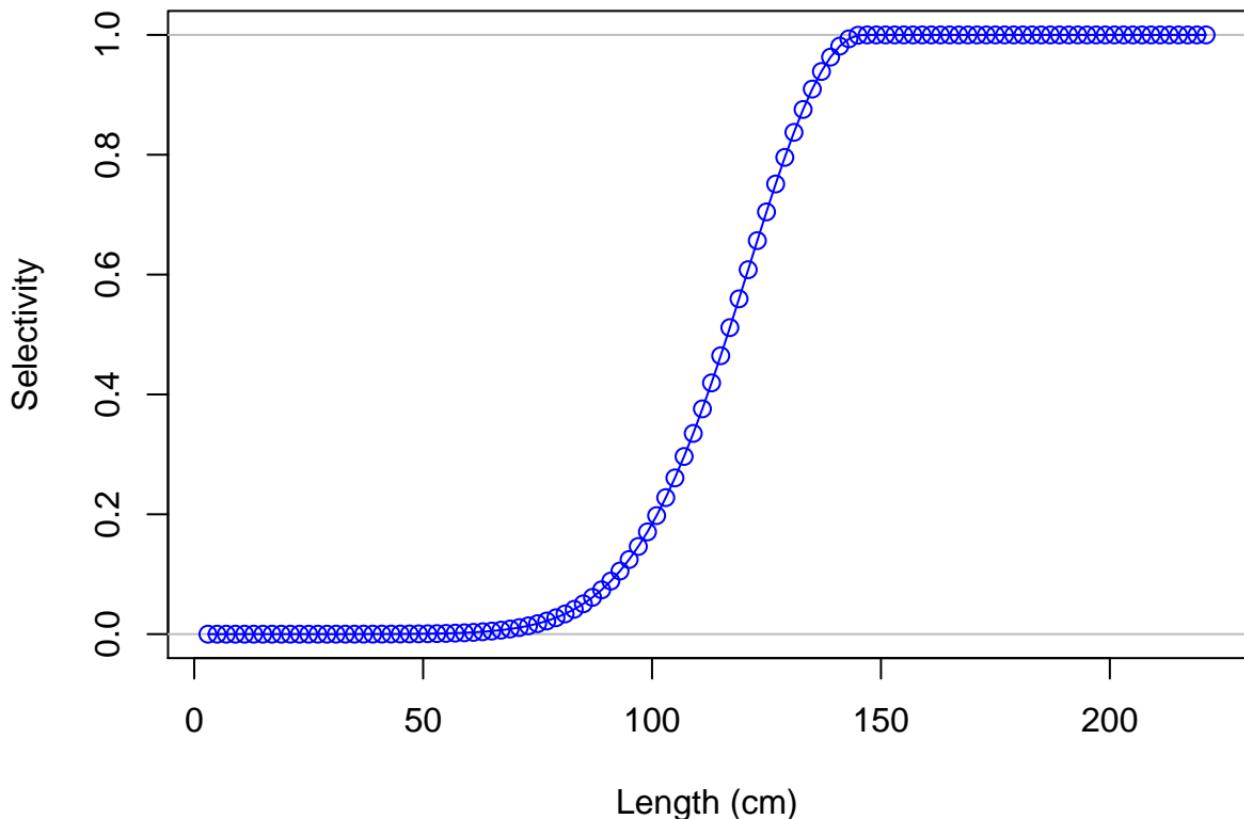
## Male time-varying selectivity for A2-LL-w



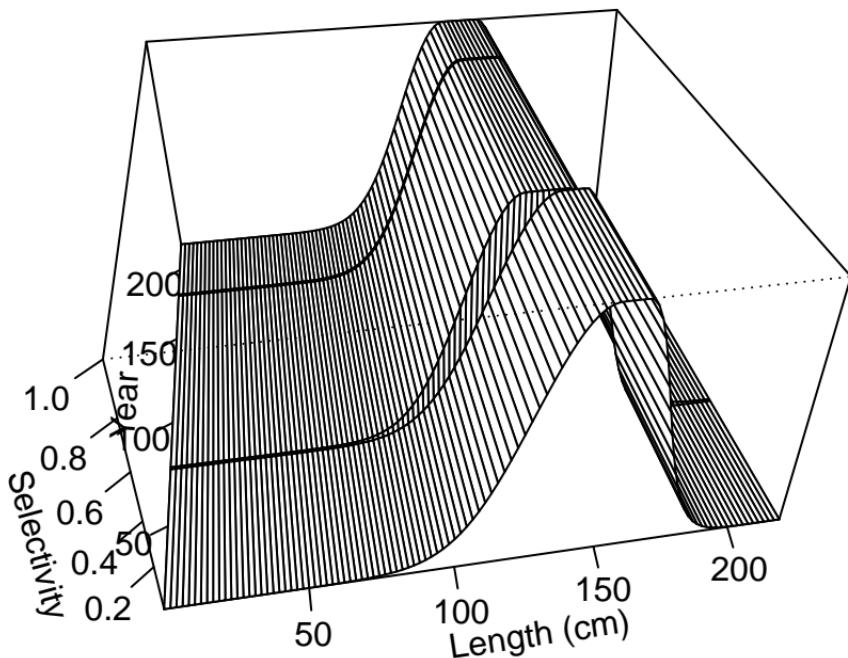
## Male time-varying selectivity for A2-LL-w



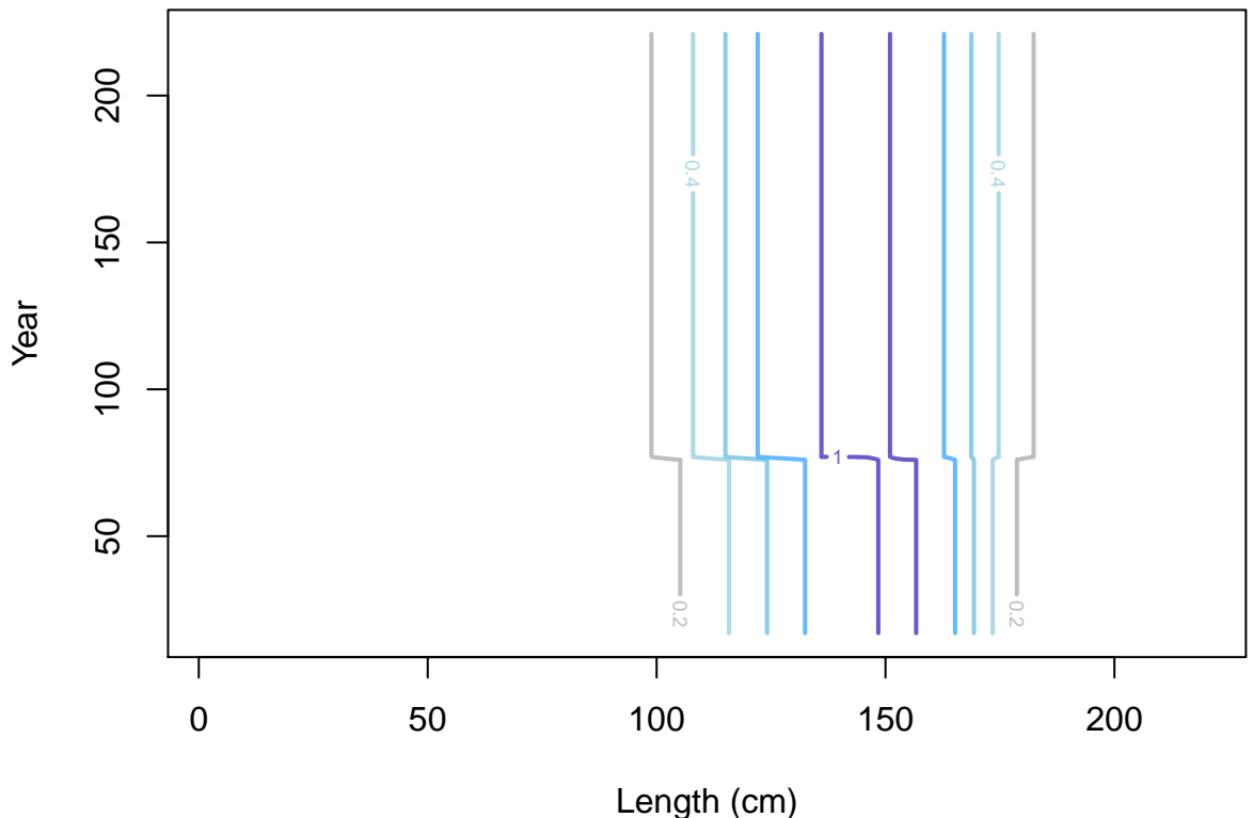
## Male ending year selectivity for A2-LL-w



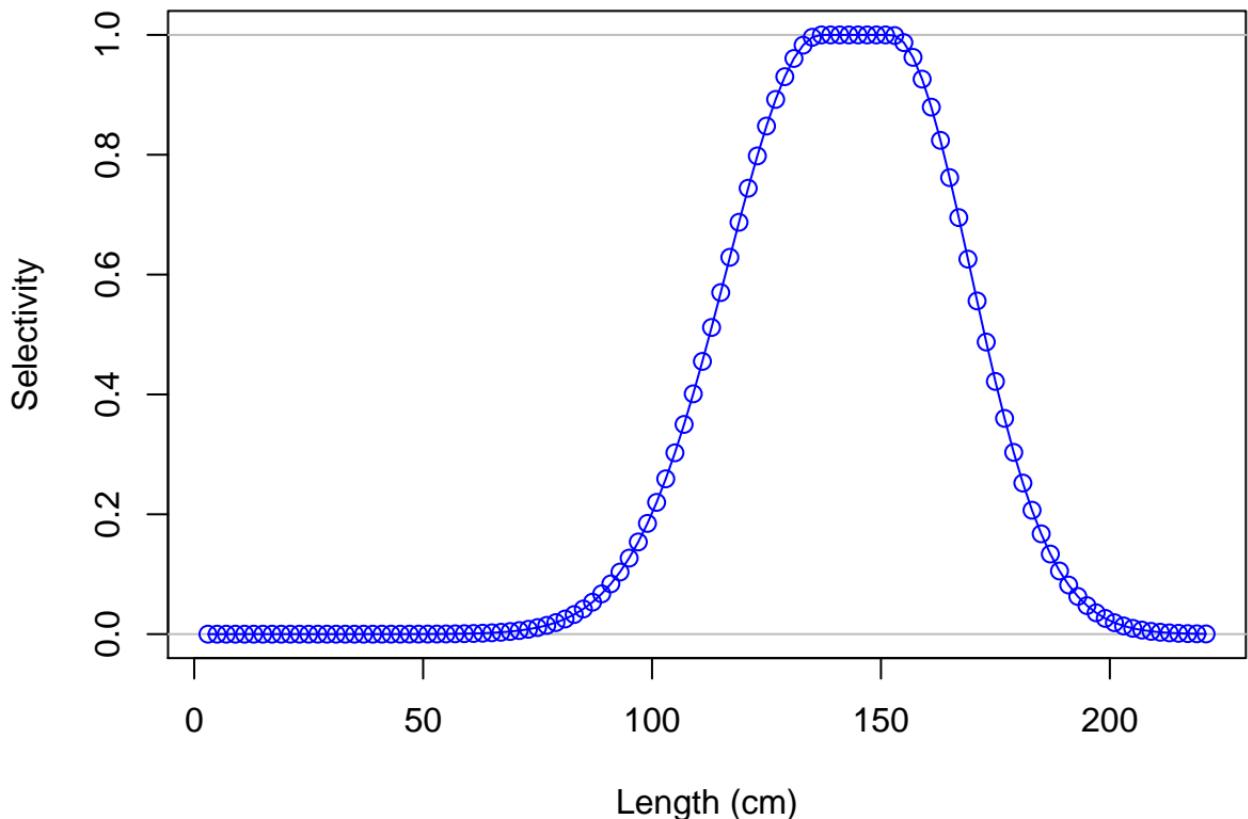
## Female time-varying selectivity for A3-LL-w



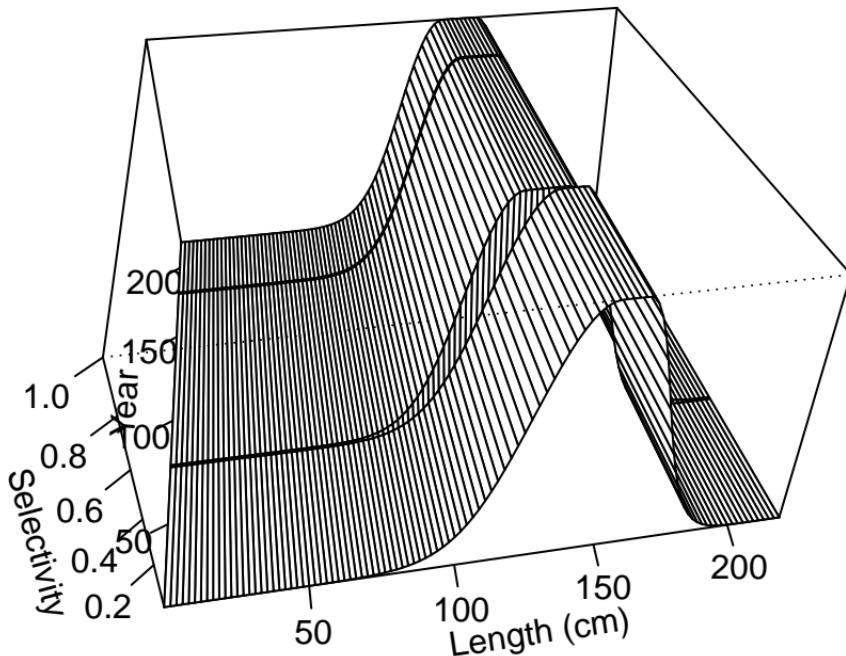
## Female time-varying selectivity for A3-LL-w



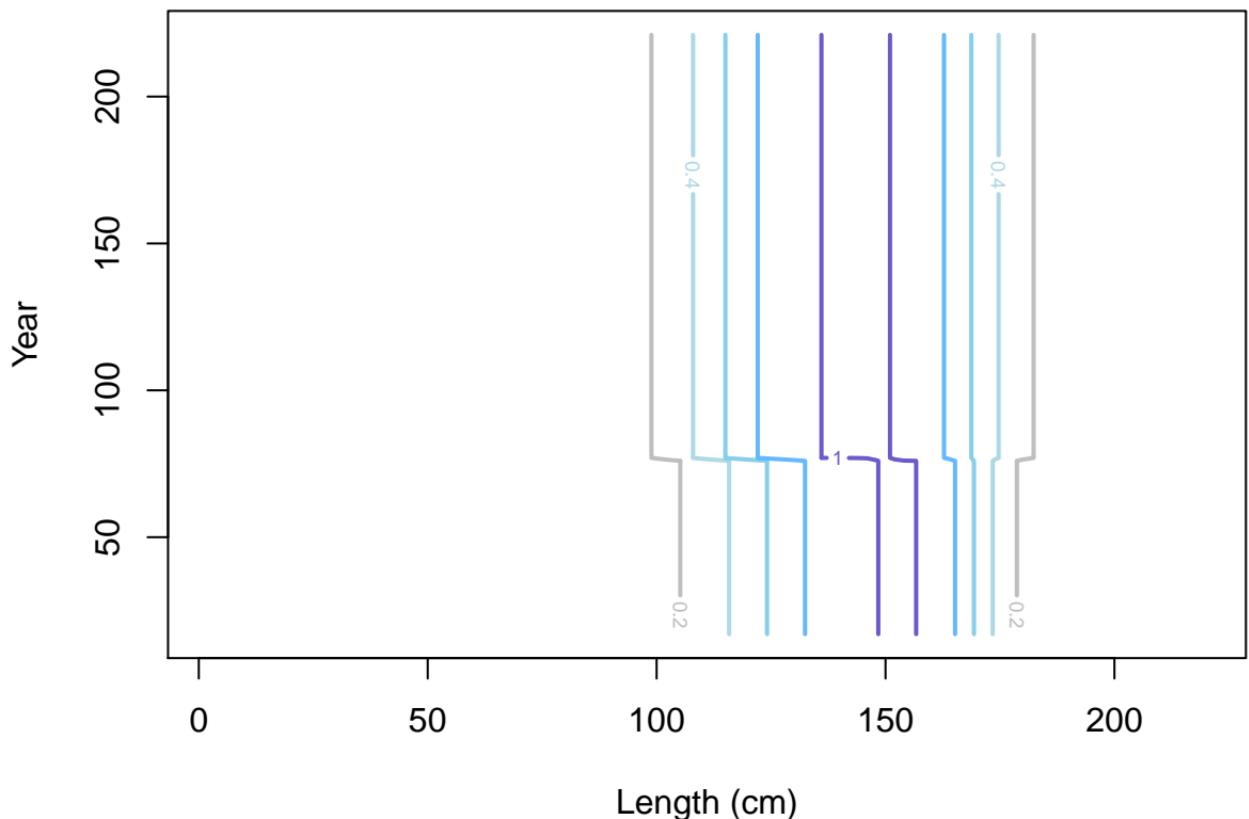
## Female ending year selectivity for A3-LL-w



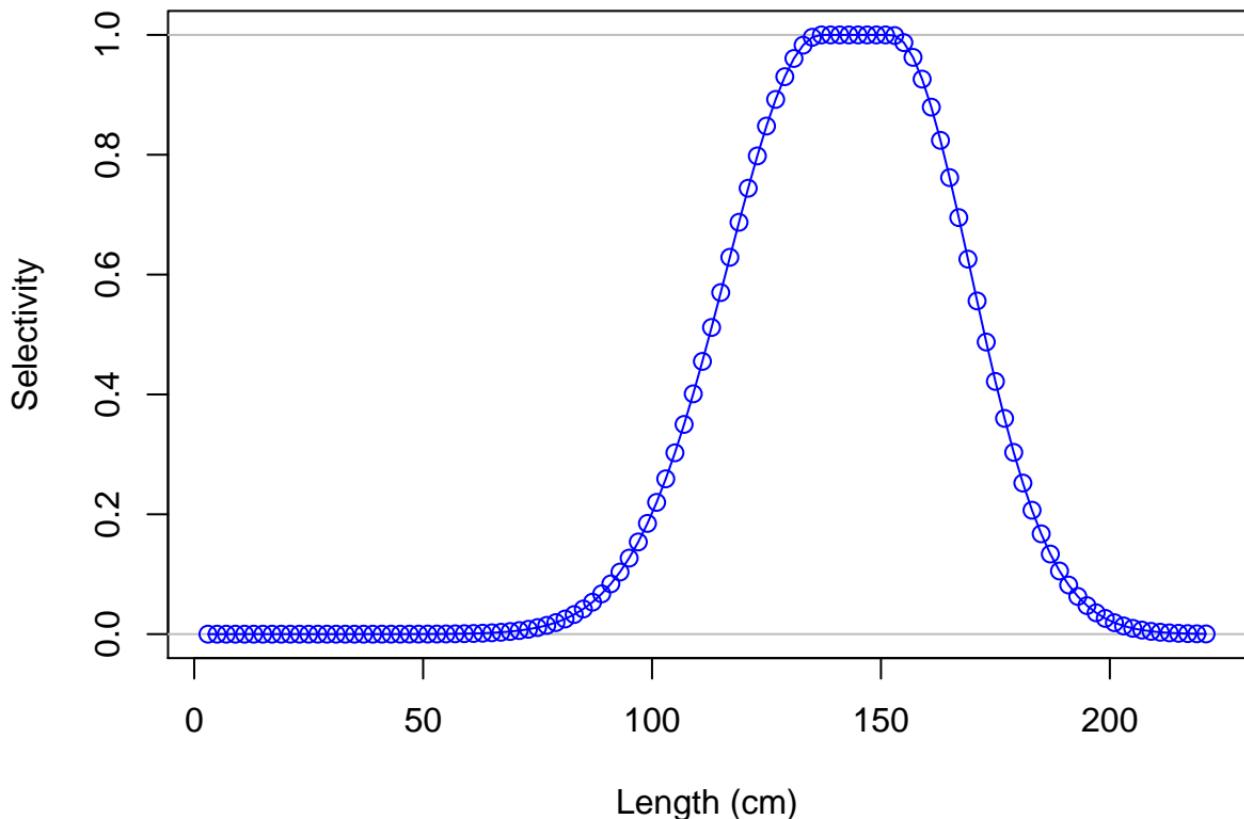
## Male time-varying selectivity for A3-LL-w



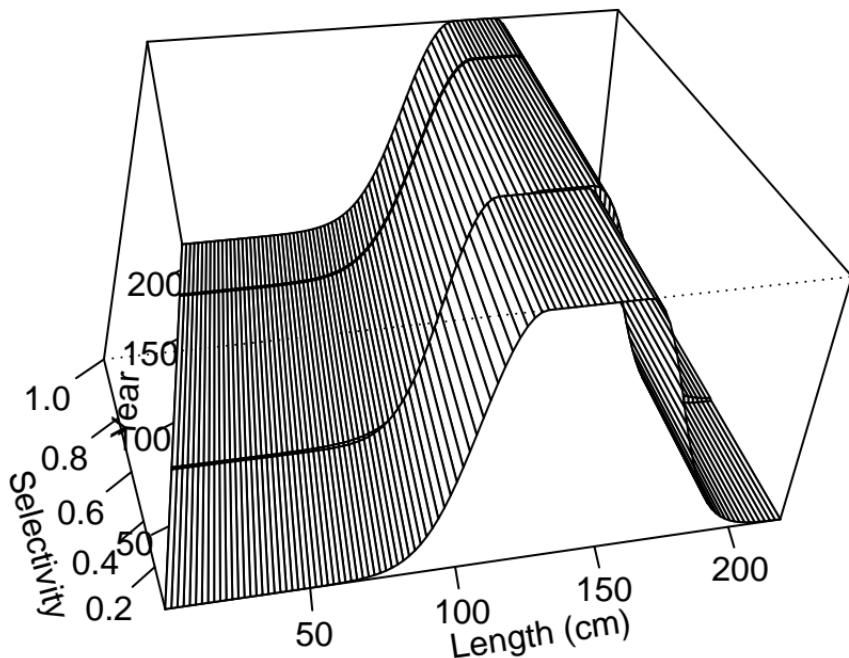
## Male time-varying selectivity for A3-LL-w



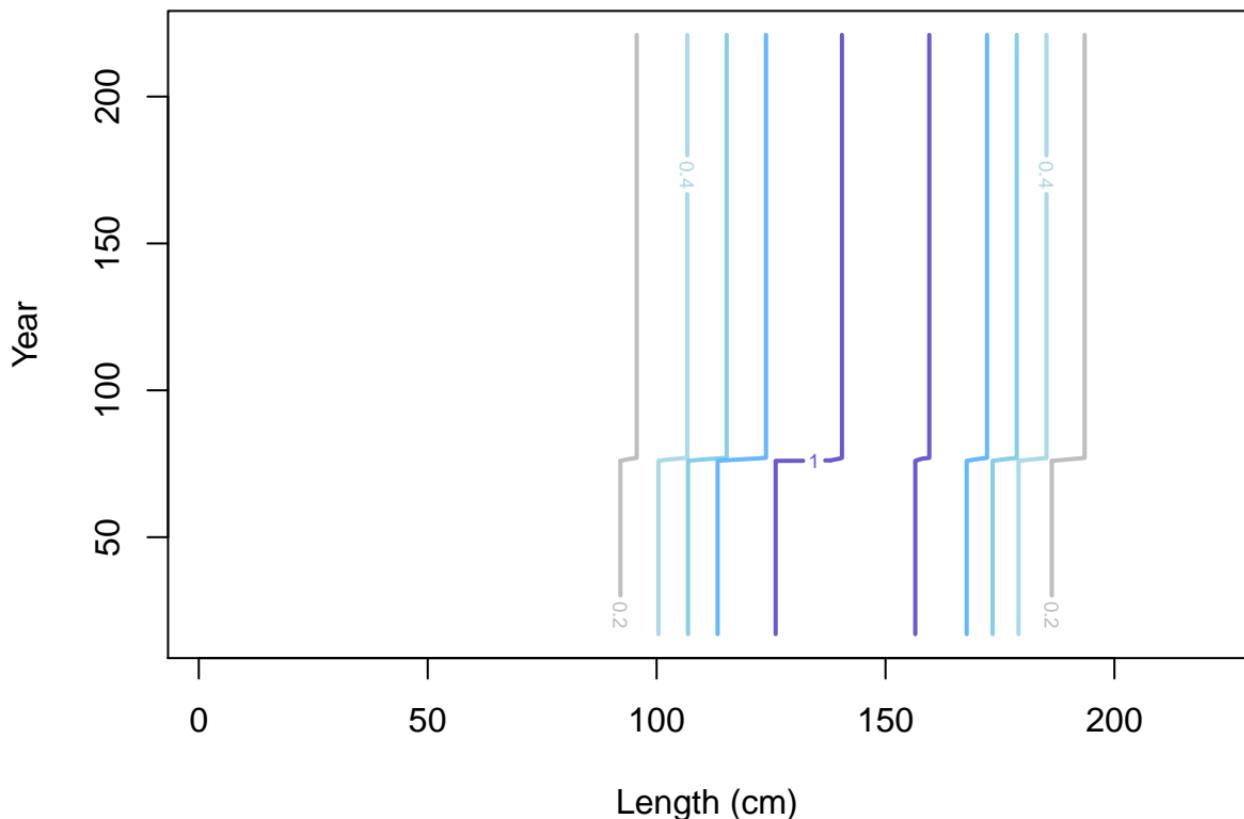
## Male ending year selectivity for A3–LL–w



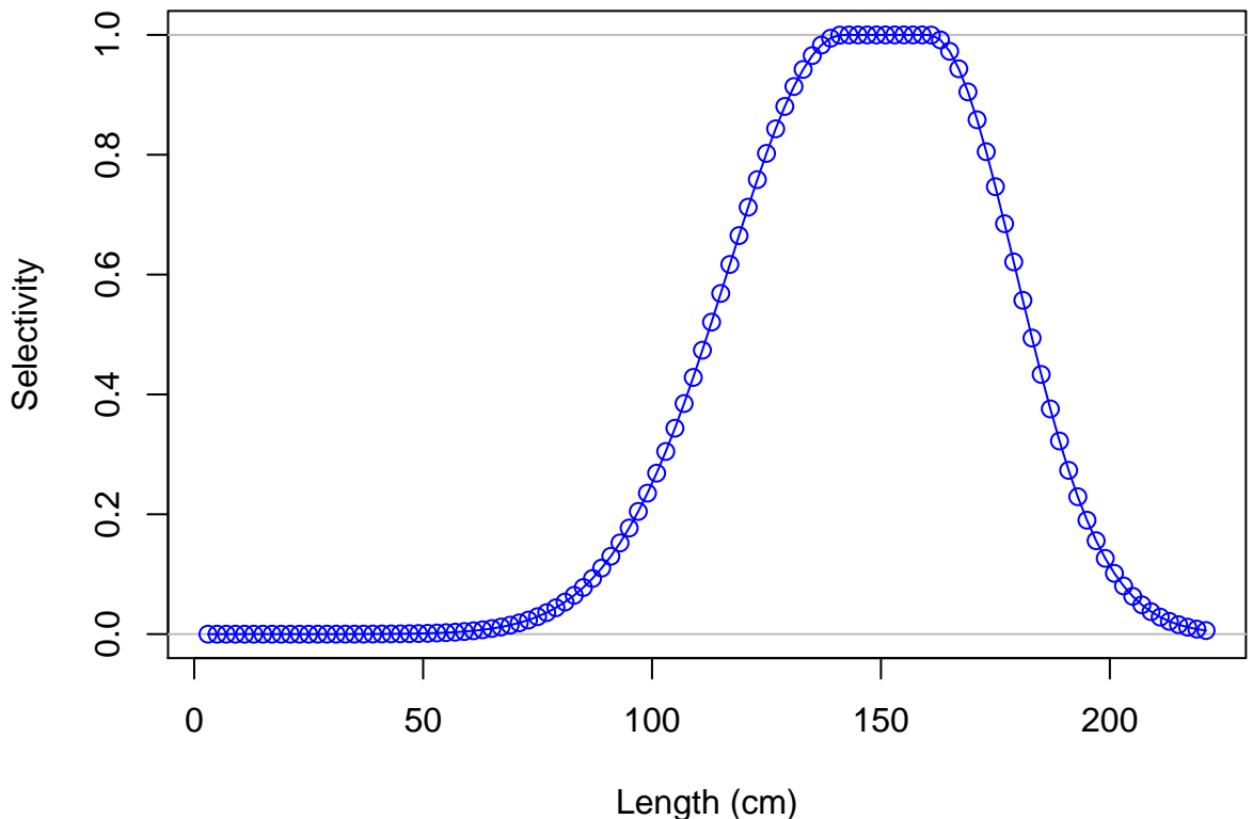
## Female time-varying selectivity for A4-LL-w



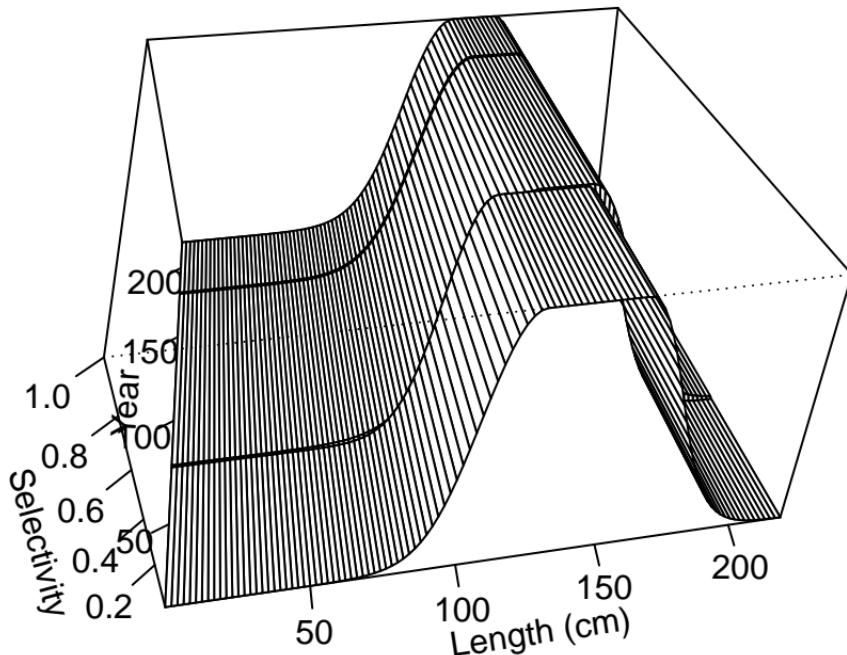
## Female time-varying selectivity for A4-LL-w



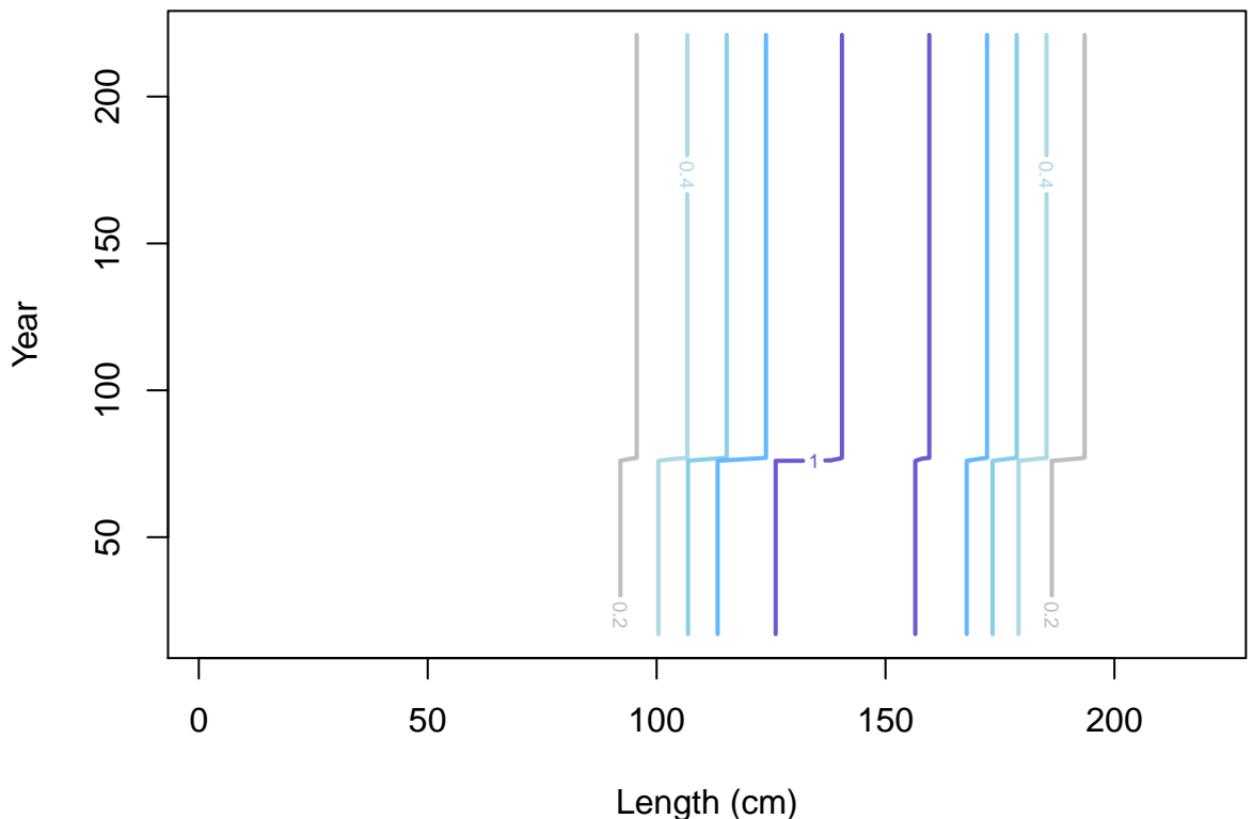
## Female ending year selectivity for A4-LL-w



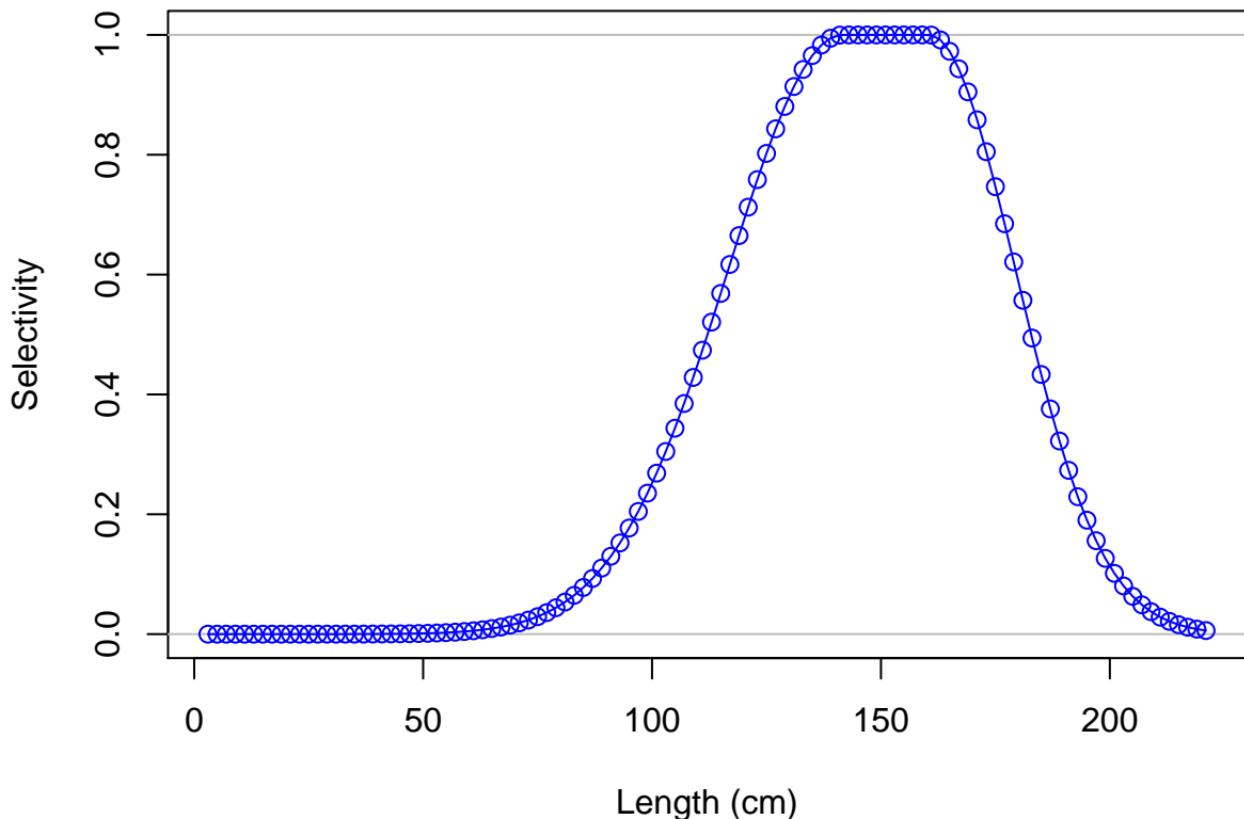
## Male time-varying selectivity for A4-LL-w



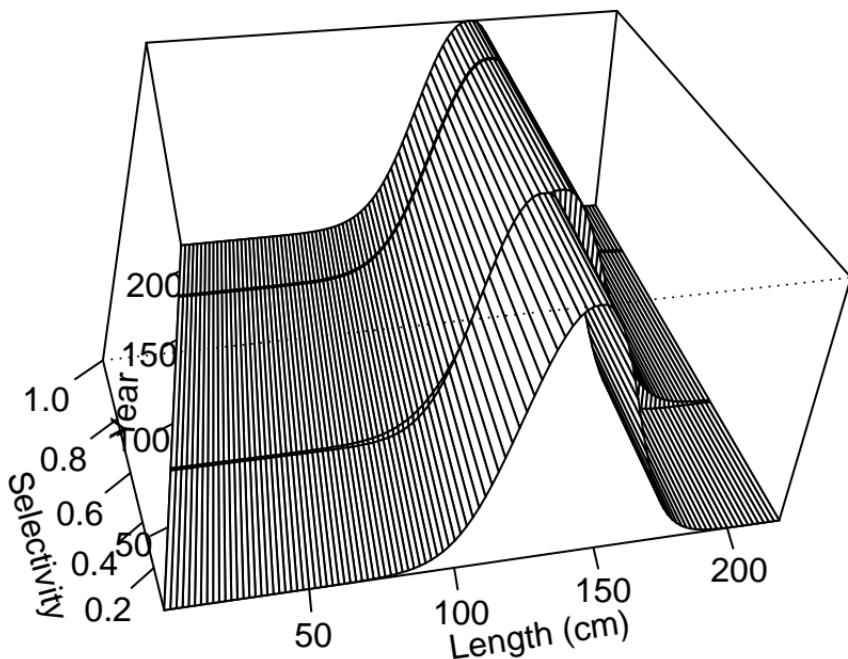
## Male time-varying selectivity for A4-LL-w



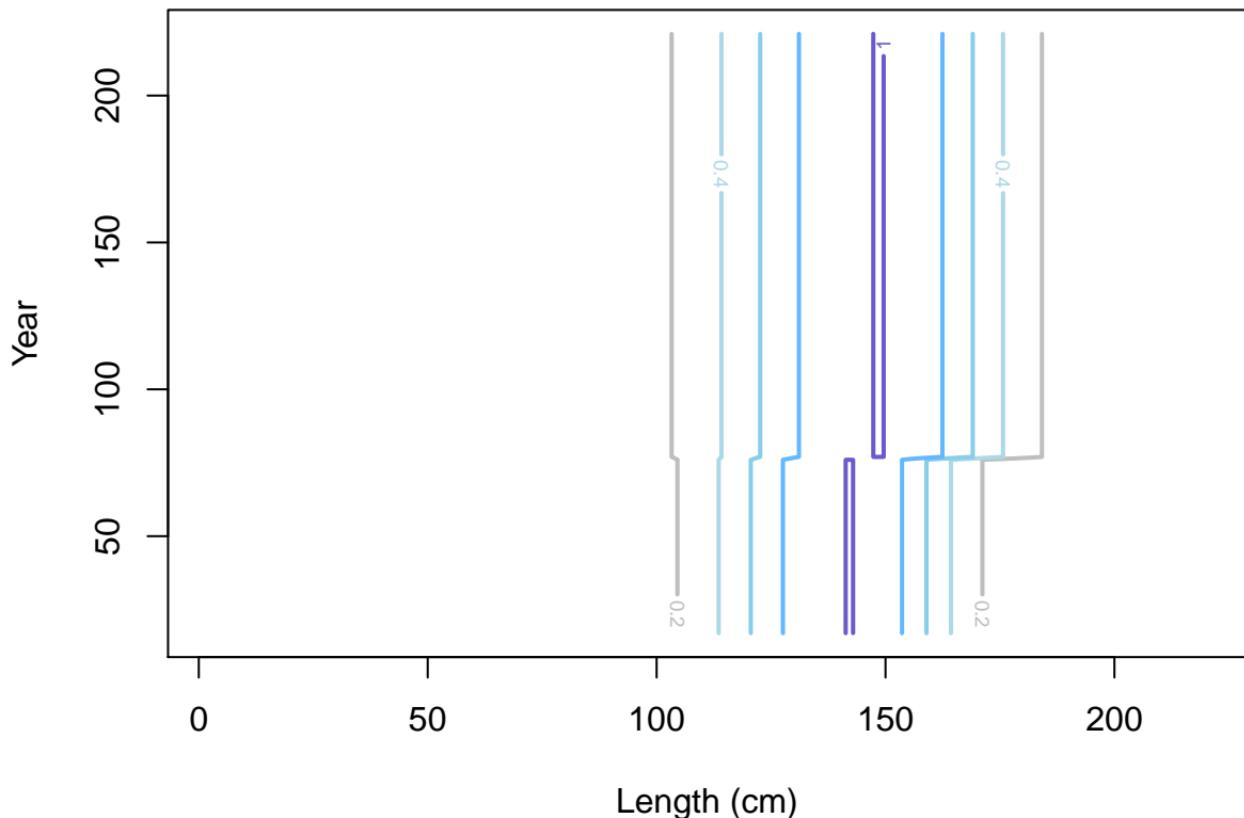
## Male ending year selectivity for A4-LL-w



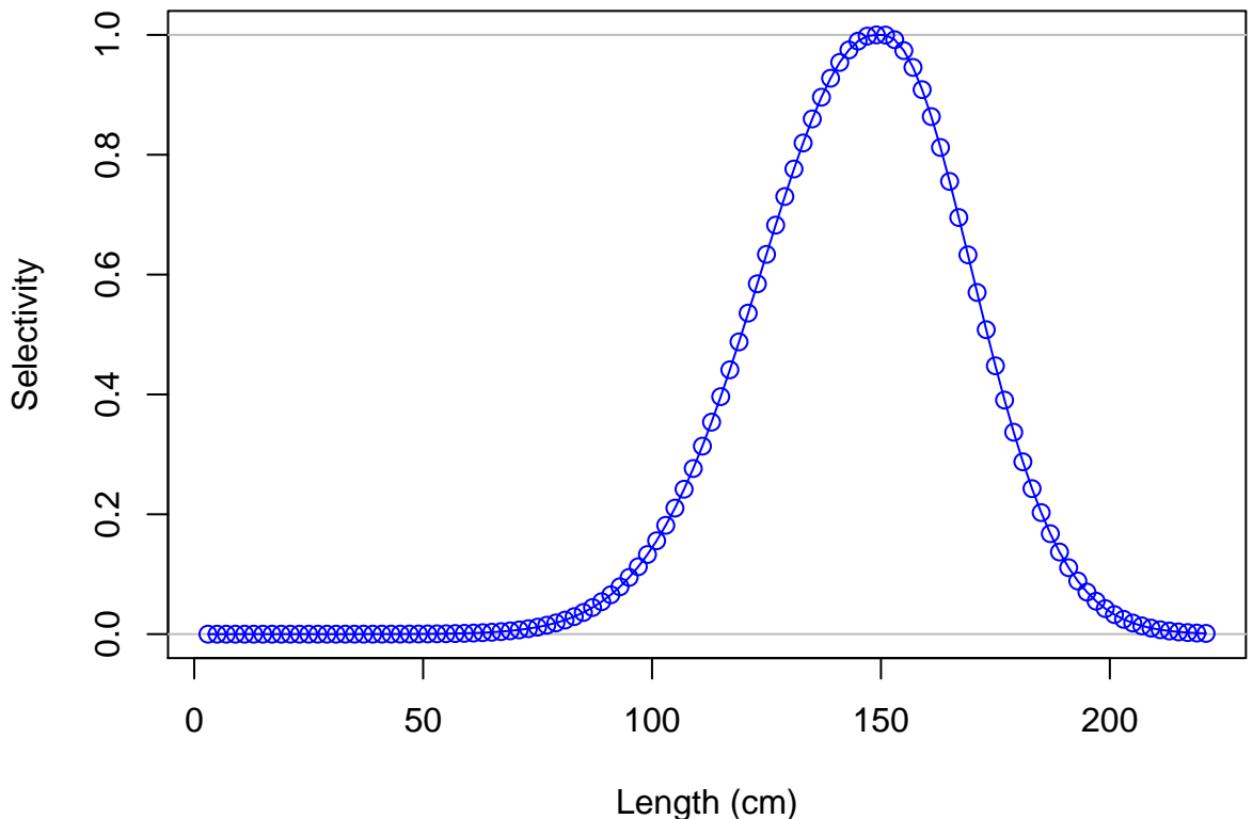
## Female time-varying selectivity for A5-LL-w



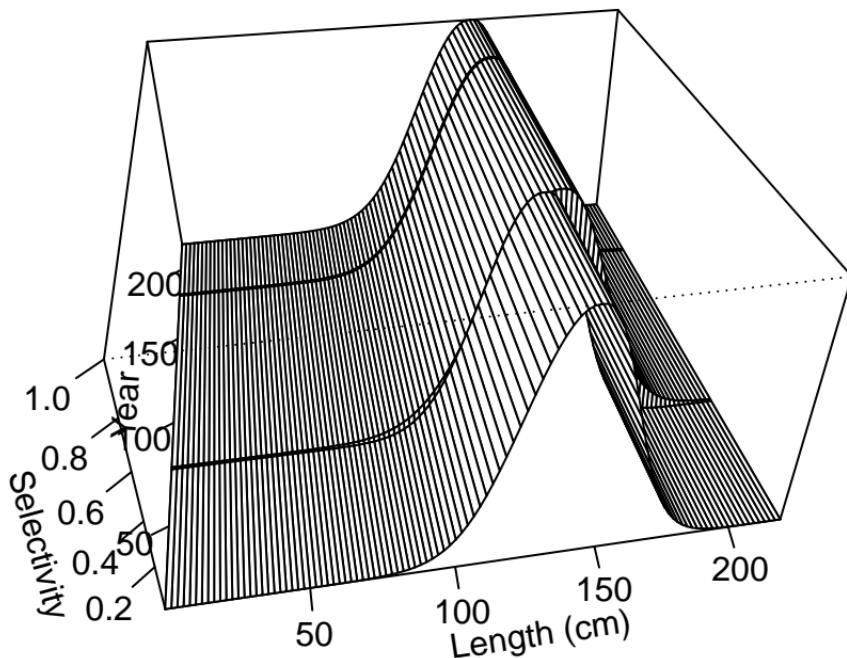
## Female time-varying selectivity for A5-LL-w



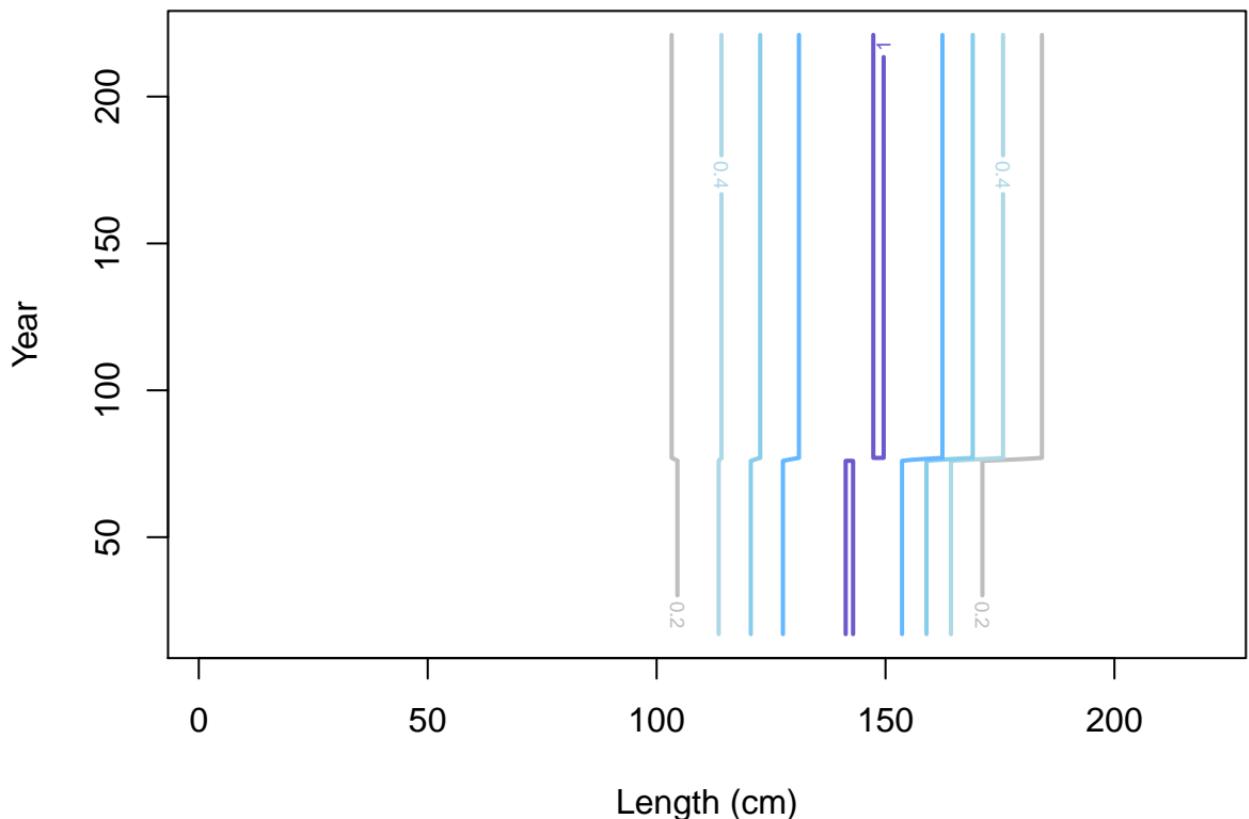
## Female ending year selectivity for A5-LL-w



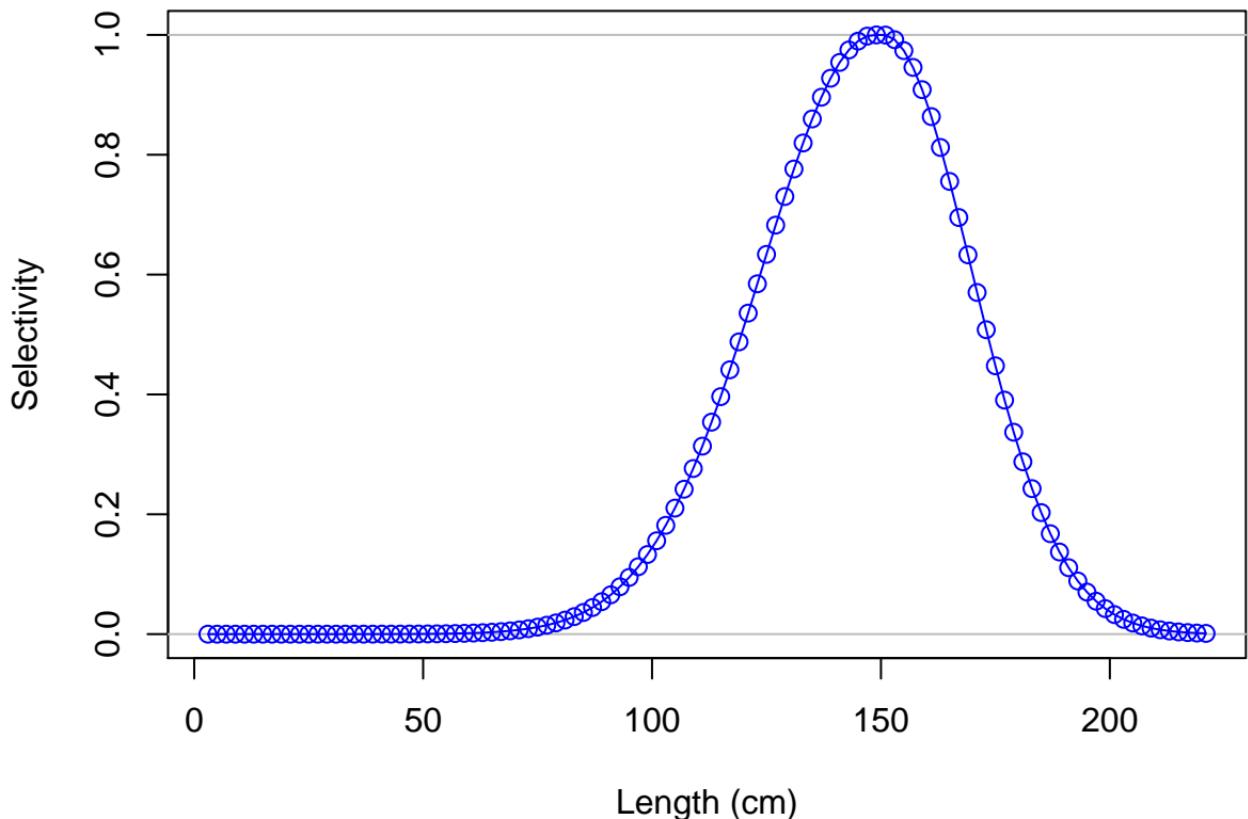
## Male time-varying selectivity for A5-LL-w



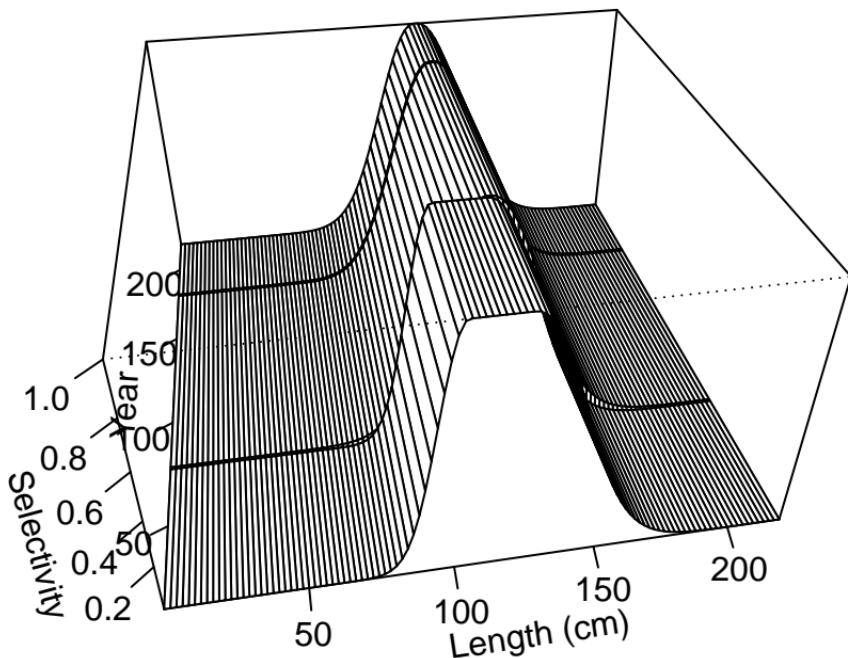
## Male time-varying selectivity for A5-LL-w



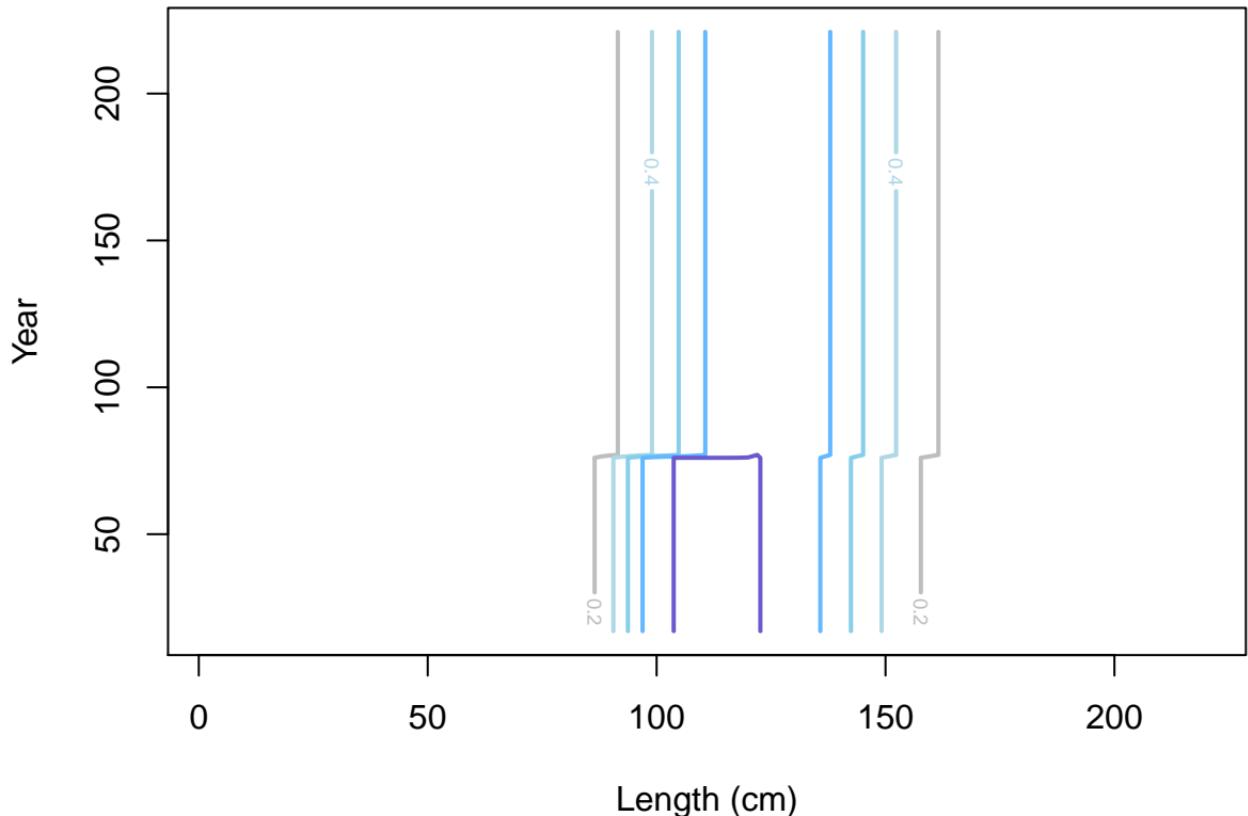
## Male ending year selectivity for A5-LL-w



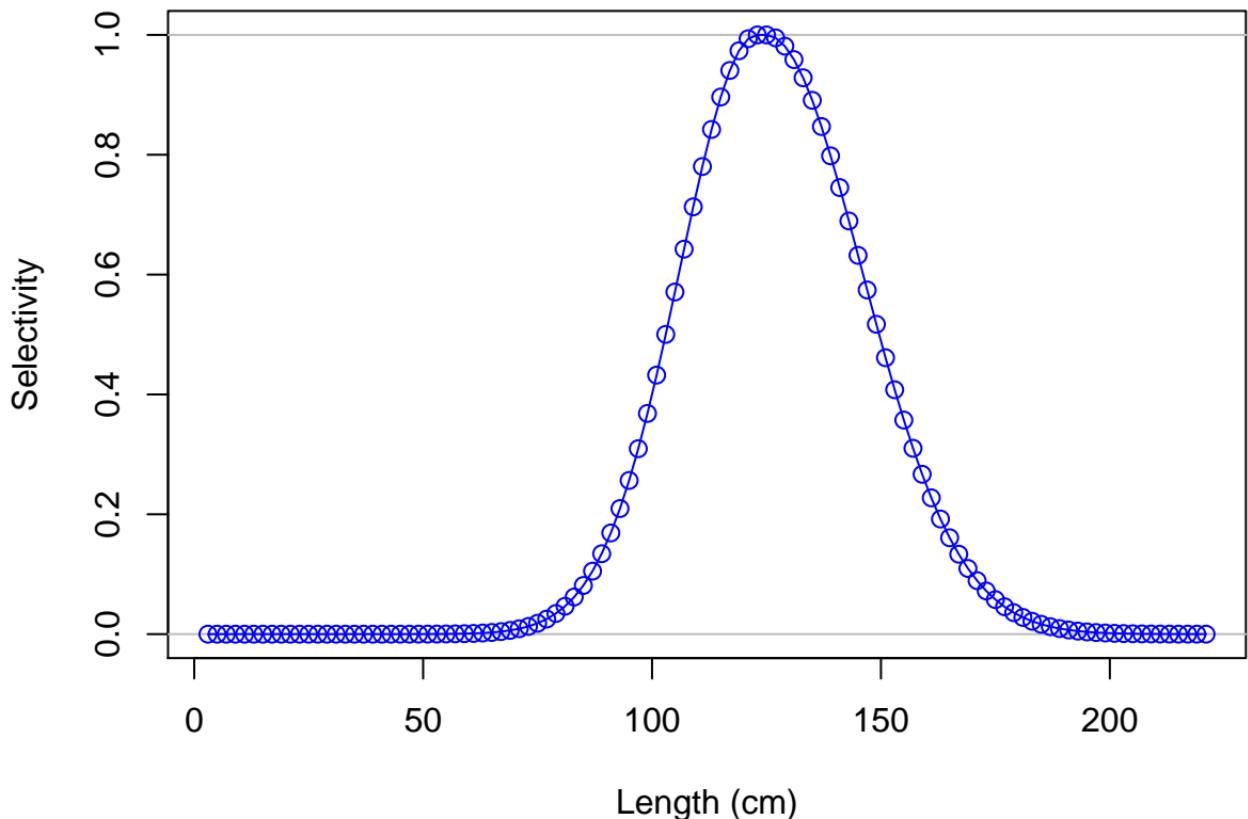
## Female time-varying selectivity for A6-LL-w



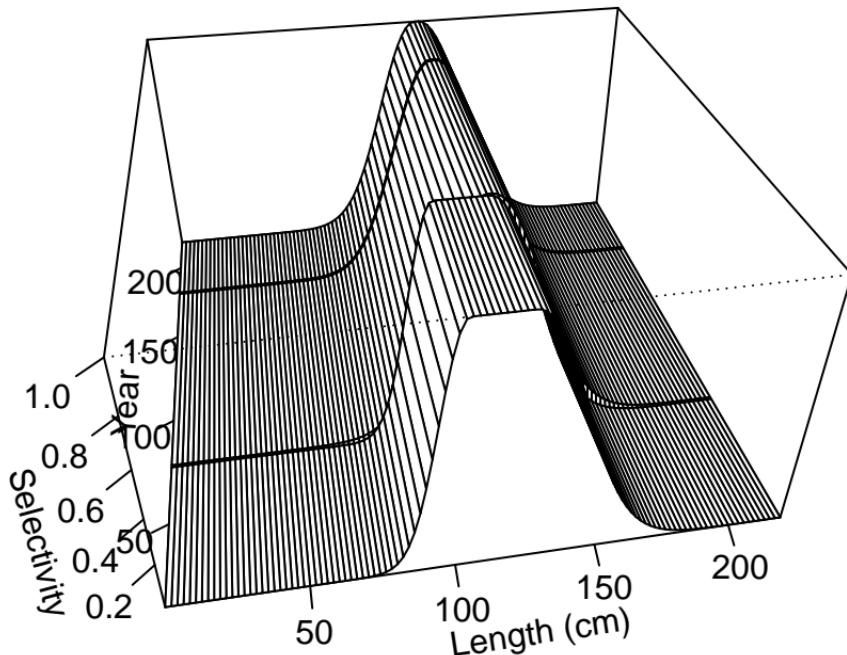
## Female time-varying selectivity for A6-LL-w



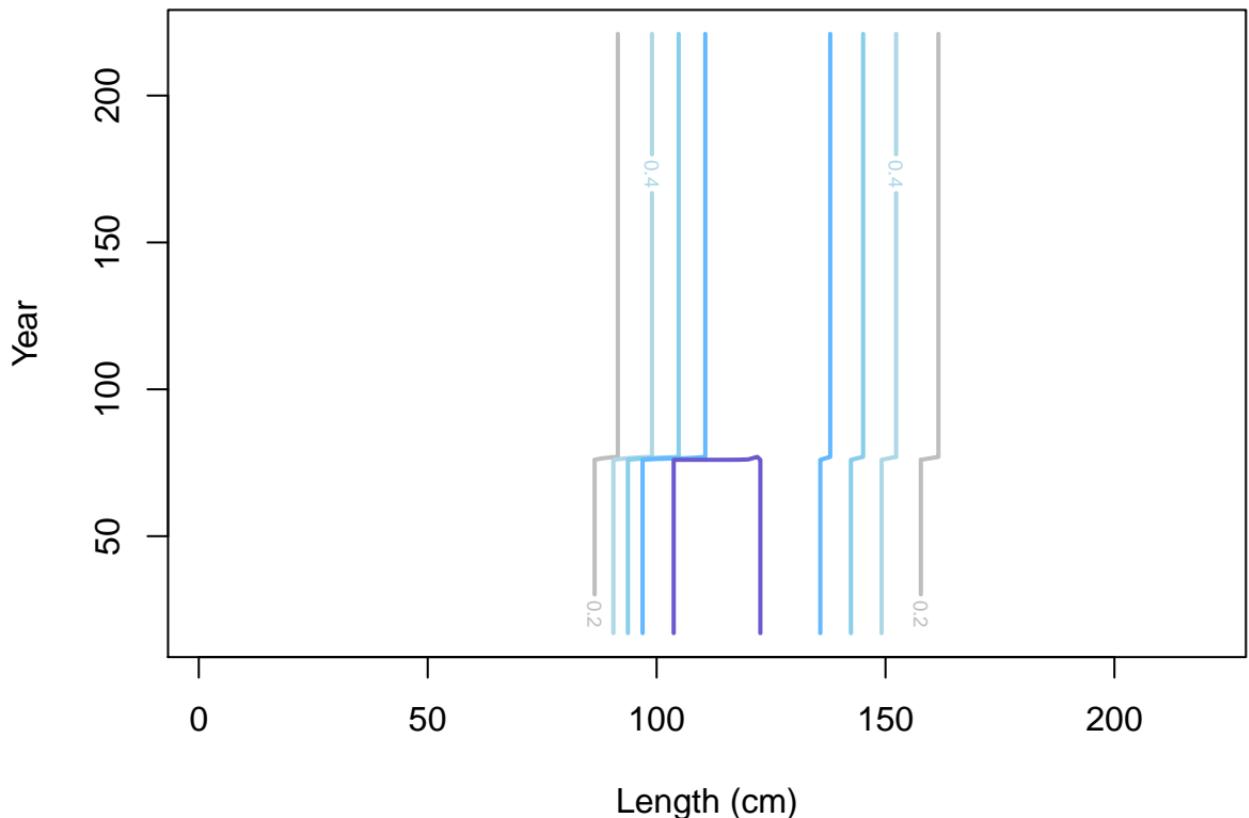
## Female ending year selectivity for A6-LL-w



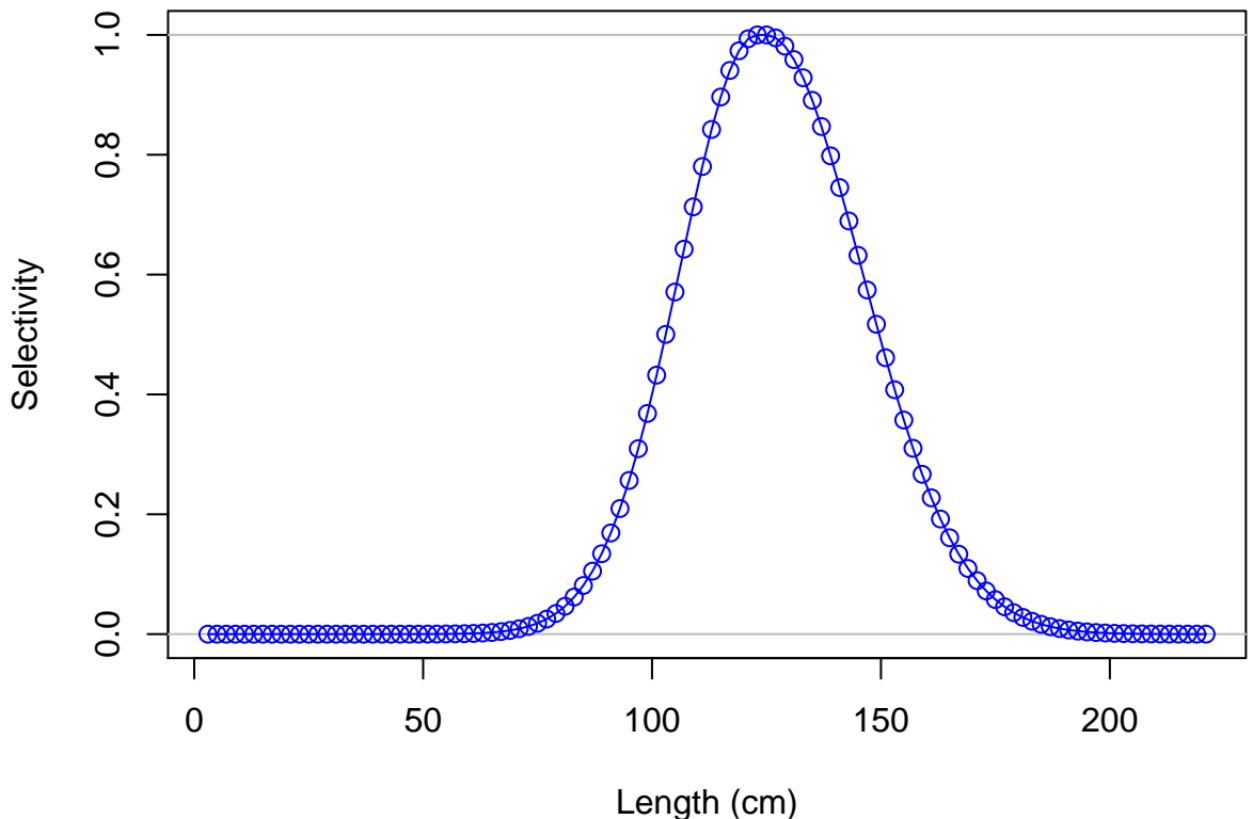
## Male time-varying selectivity for A6-LL-w



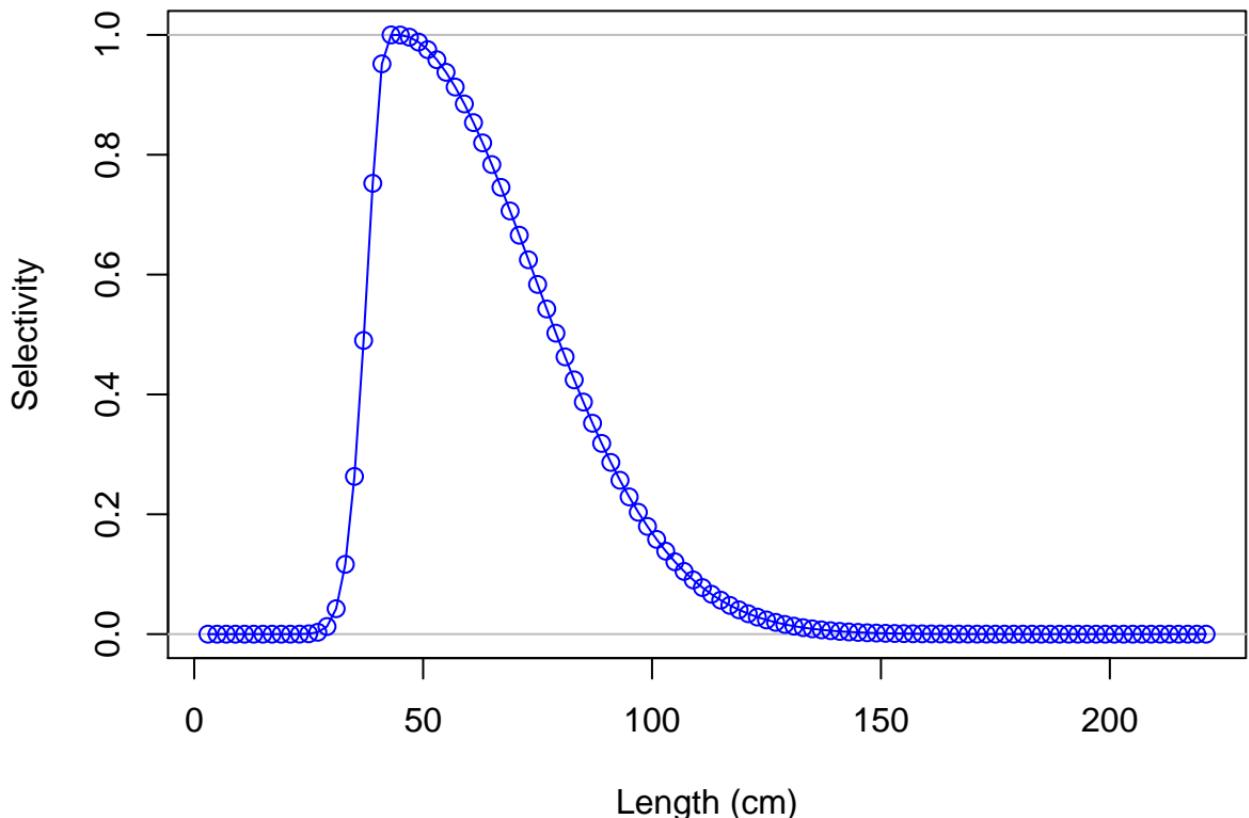
## Male time-varying selectivity for A6-LL-w



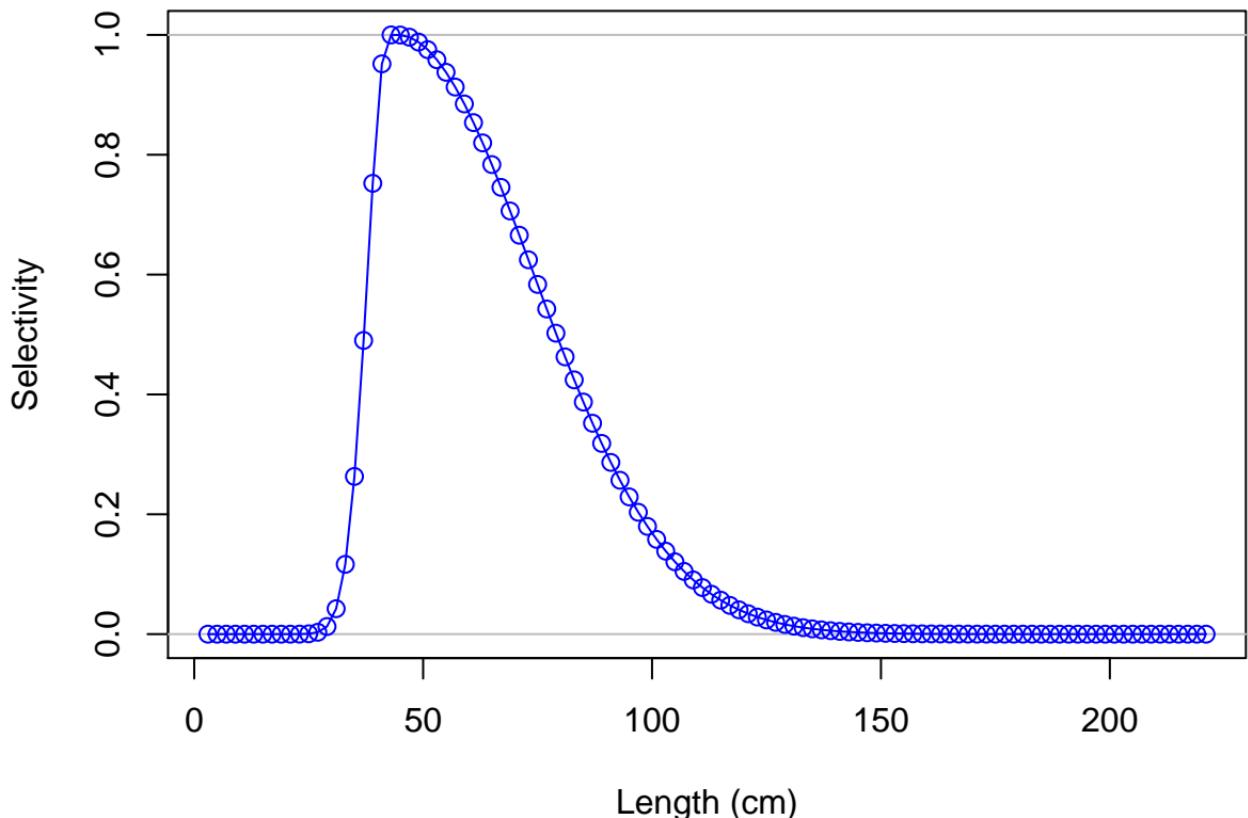
## Male ending year selectivity for A6-LL-w



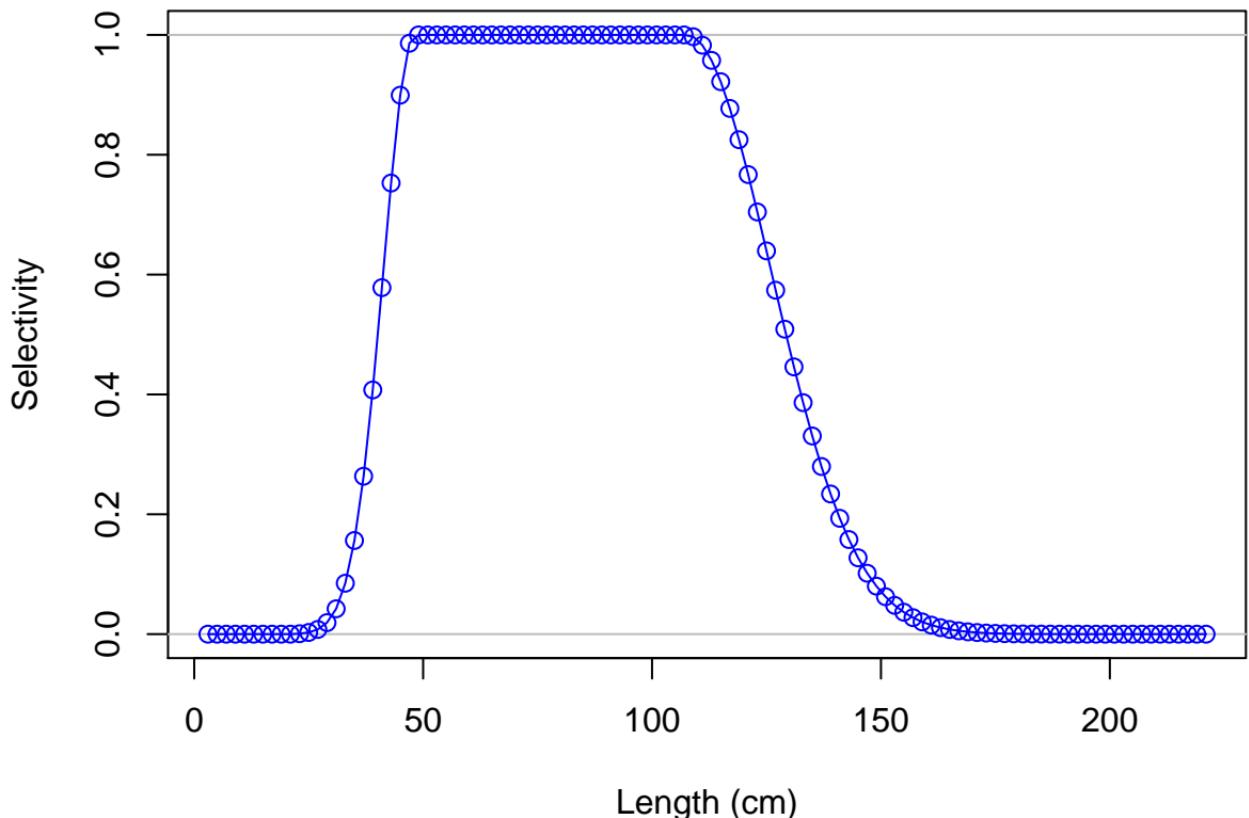
## Female ending year selectivity for A2-OBJ



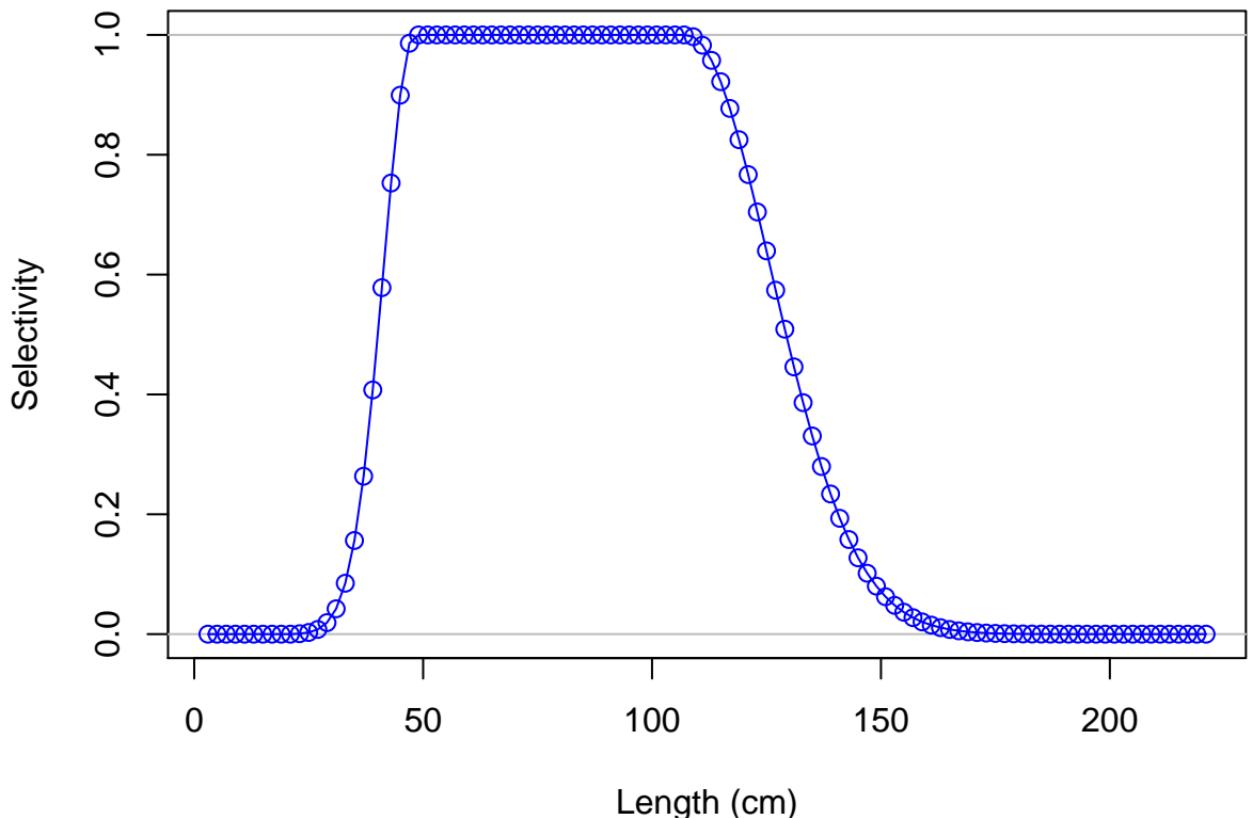
## Male ending year selectivity for A2–OBJ



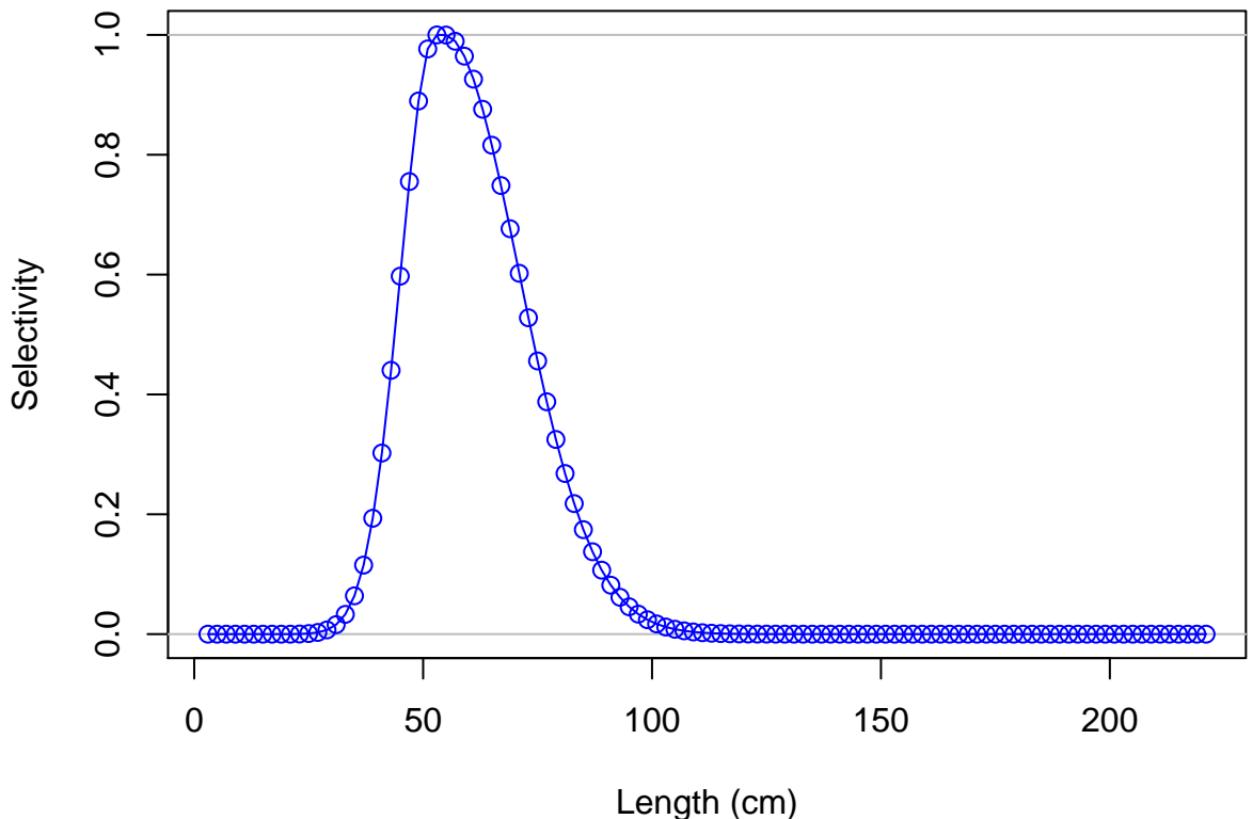
## Female ending year selectivity for A3-OBJ



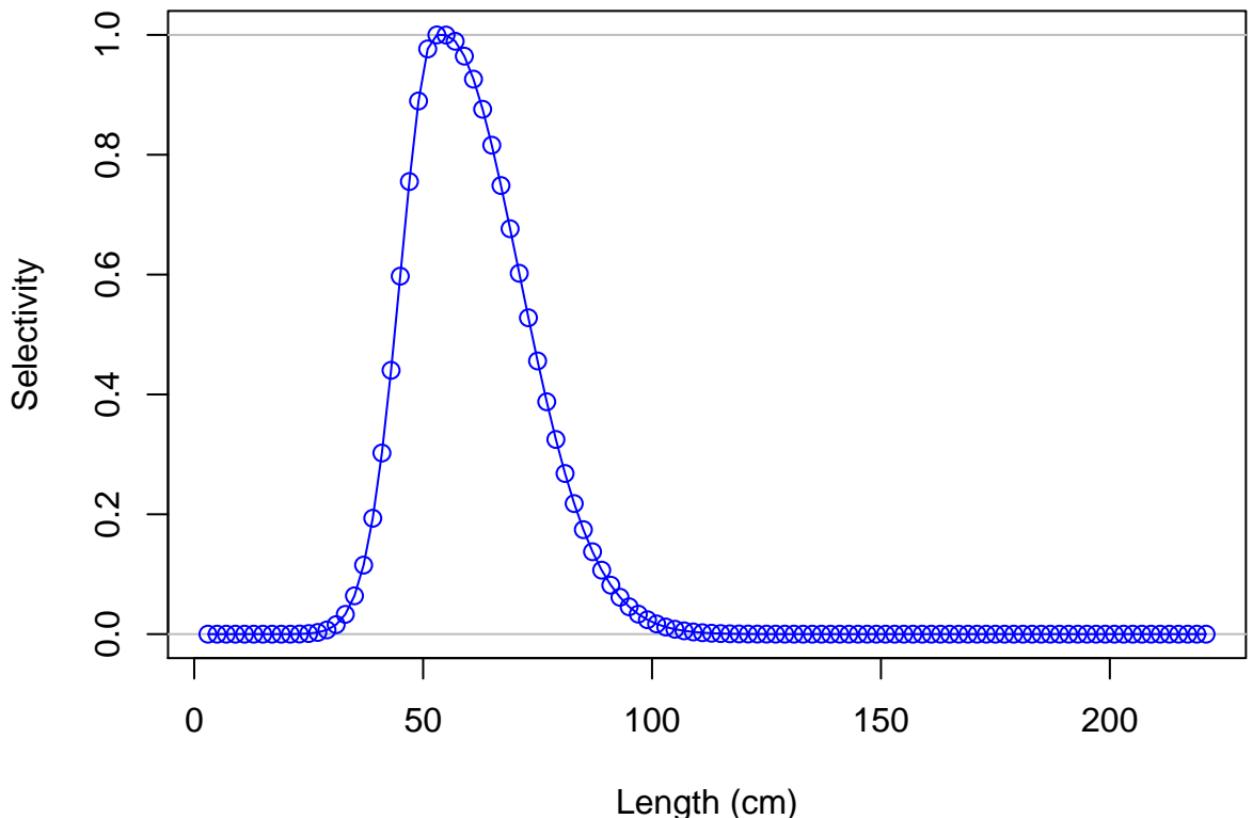
## Male ending year selectivity for A3–OBJ



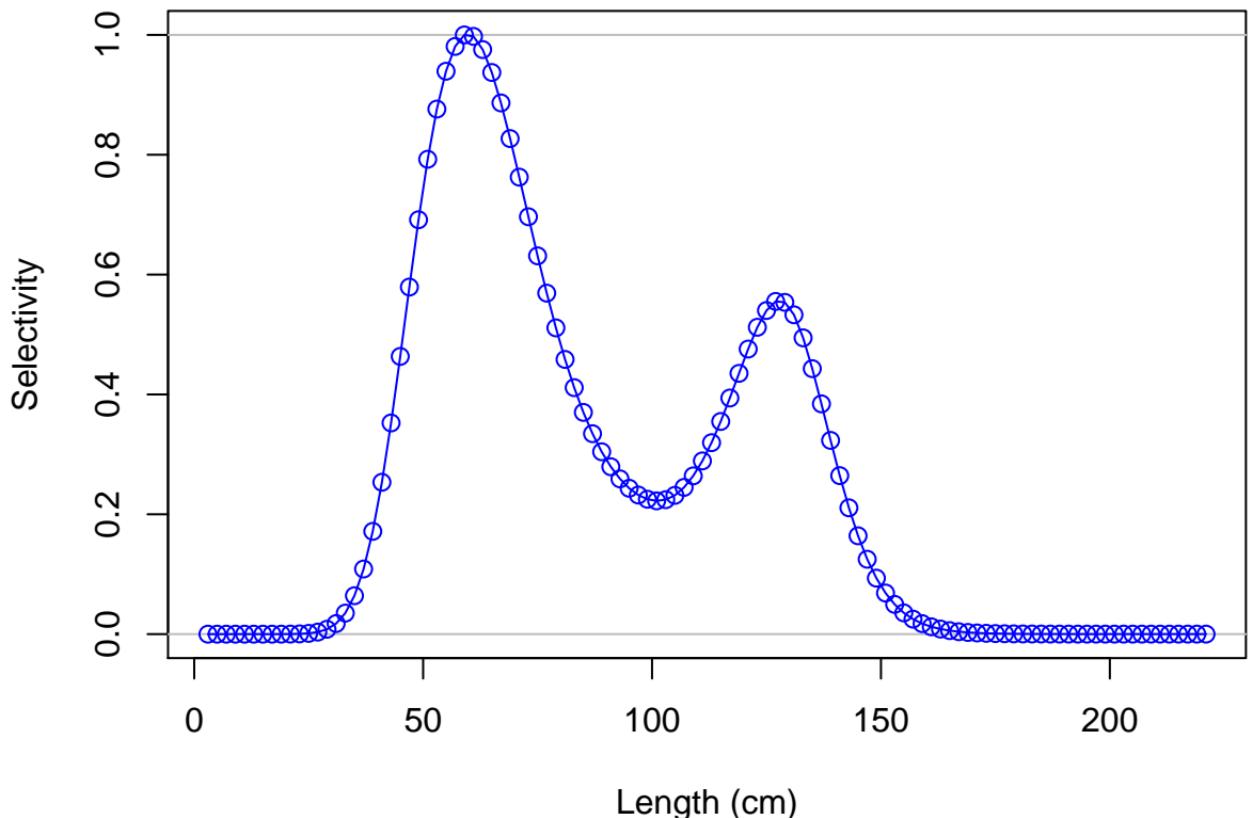
## Female ending year selectivity for A4-OBJ



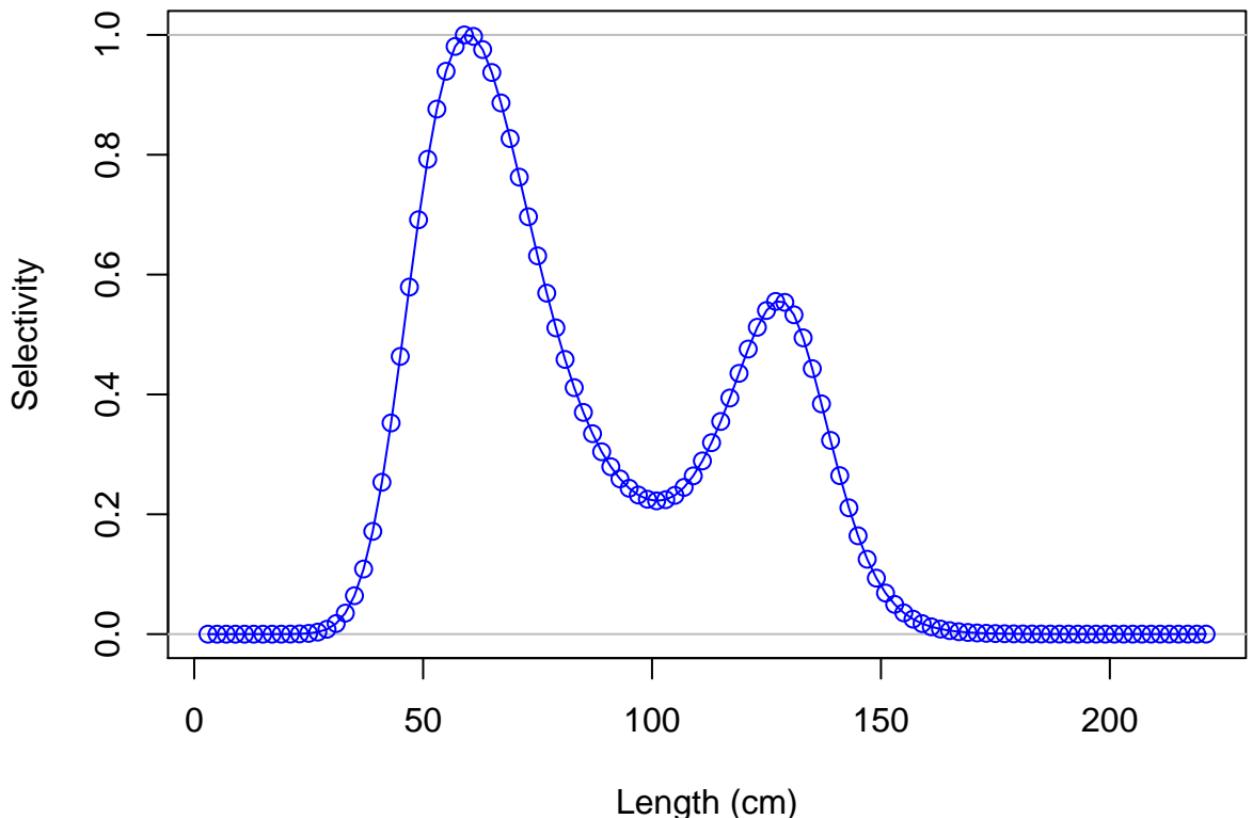
## Male ending year selectivity for A4–OBJ



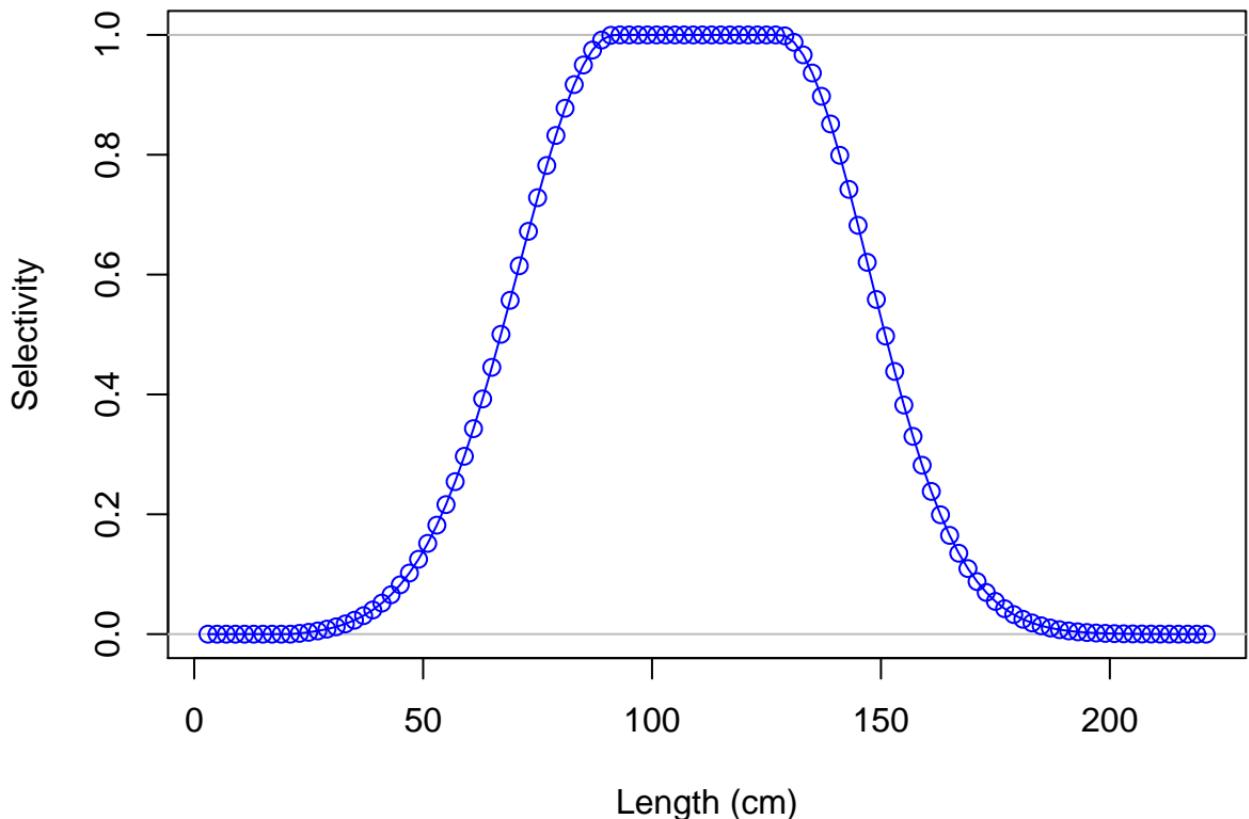
## Female ending year selectivity for A5-OBJ



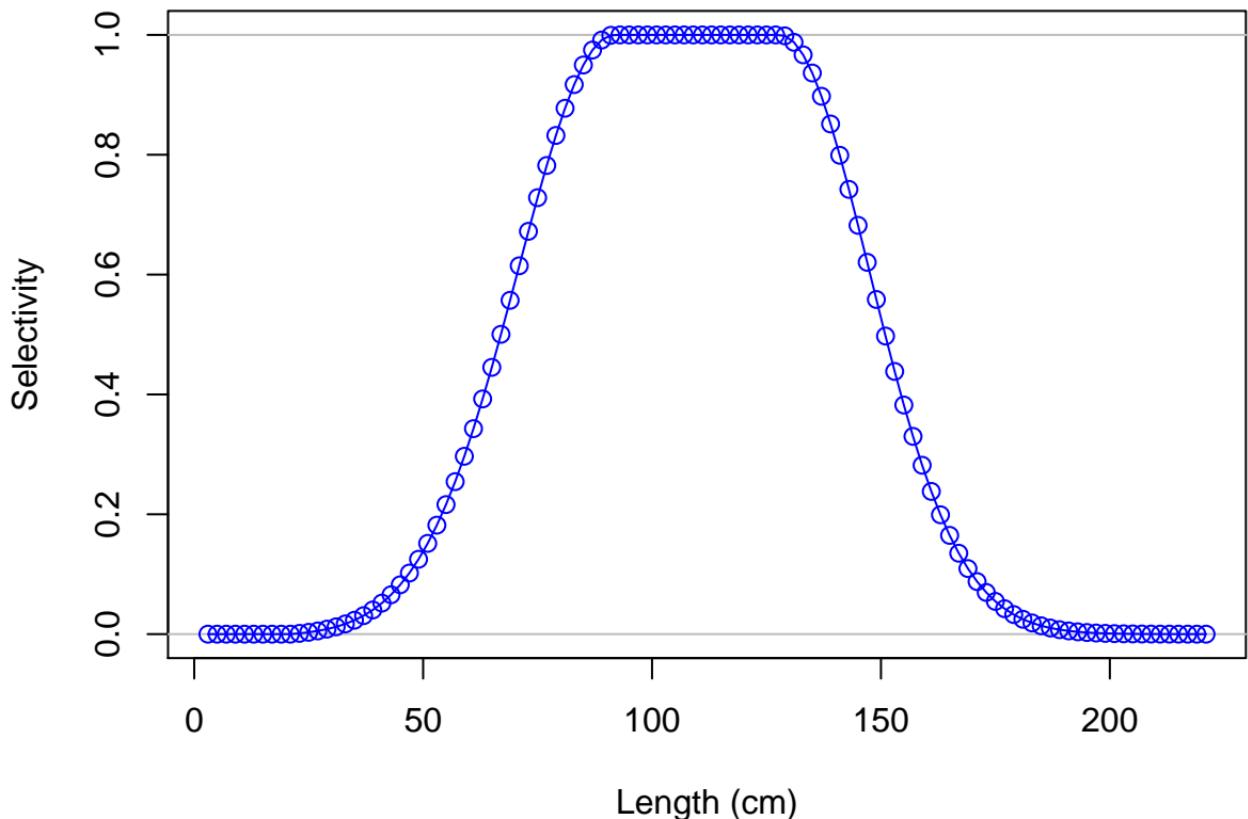
## Male ending year selectivity for A5–OBJ



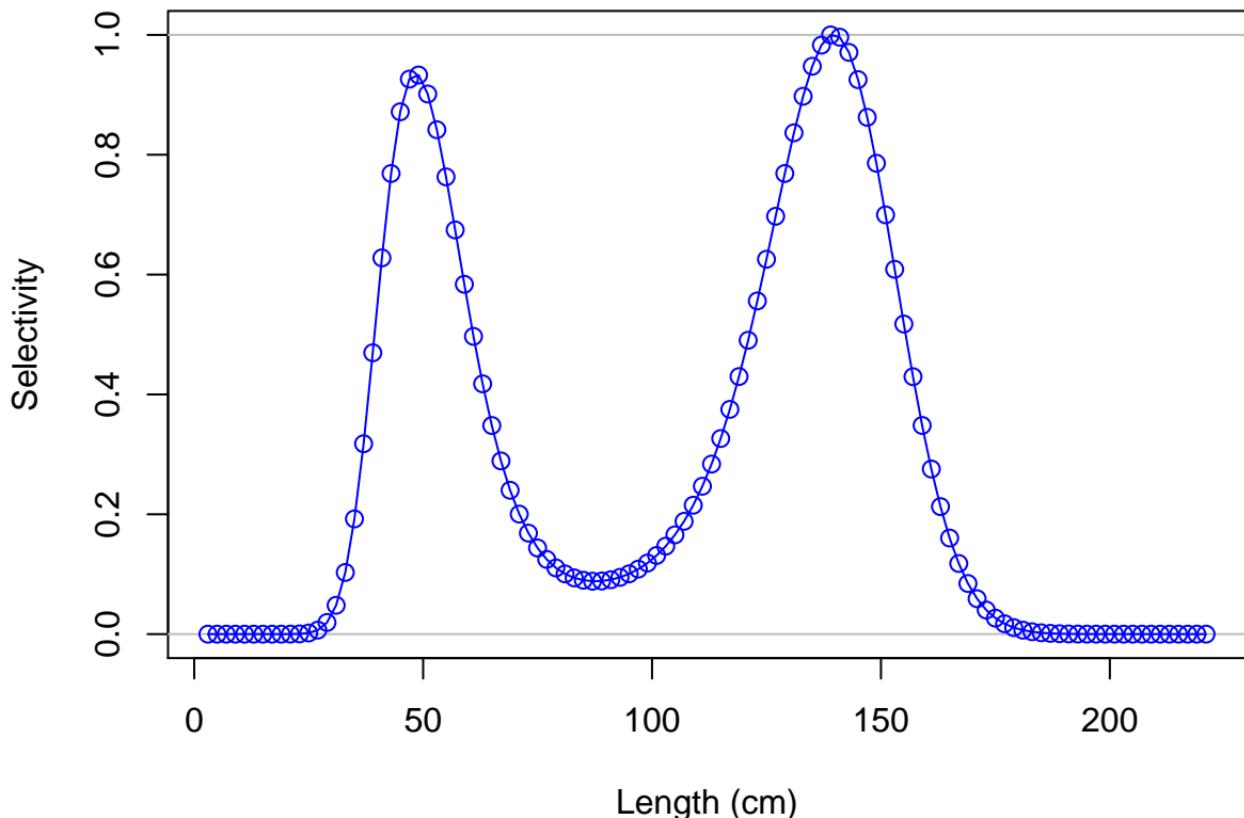
## Female ending year selectivity for A6-OBJ



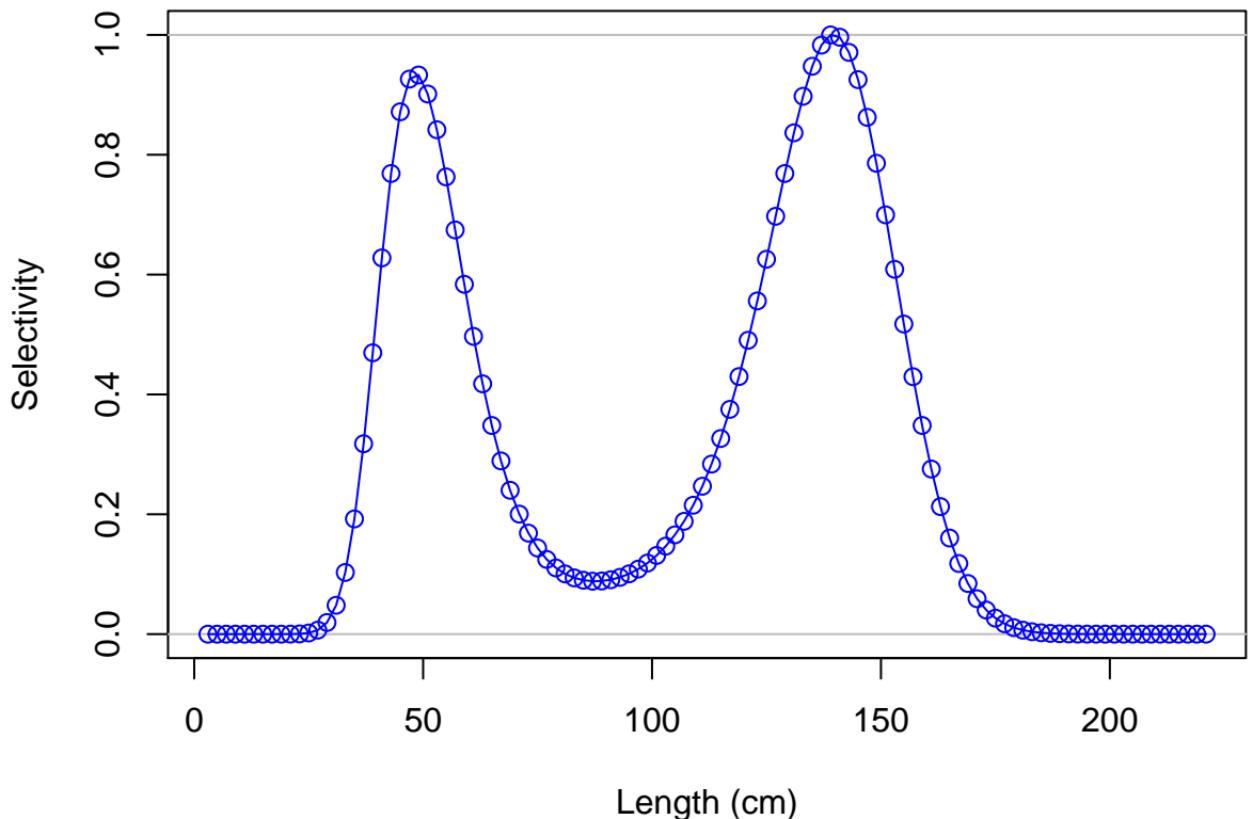
## Male ending year selectivity for A6–OBJ



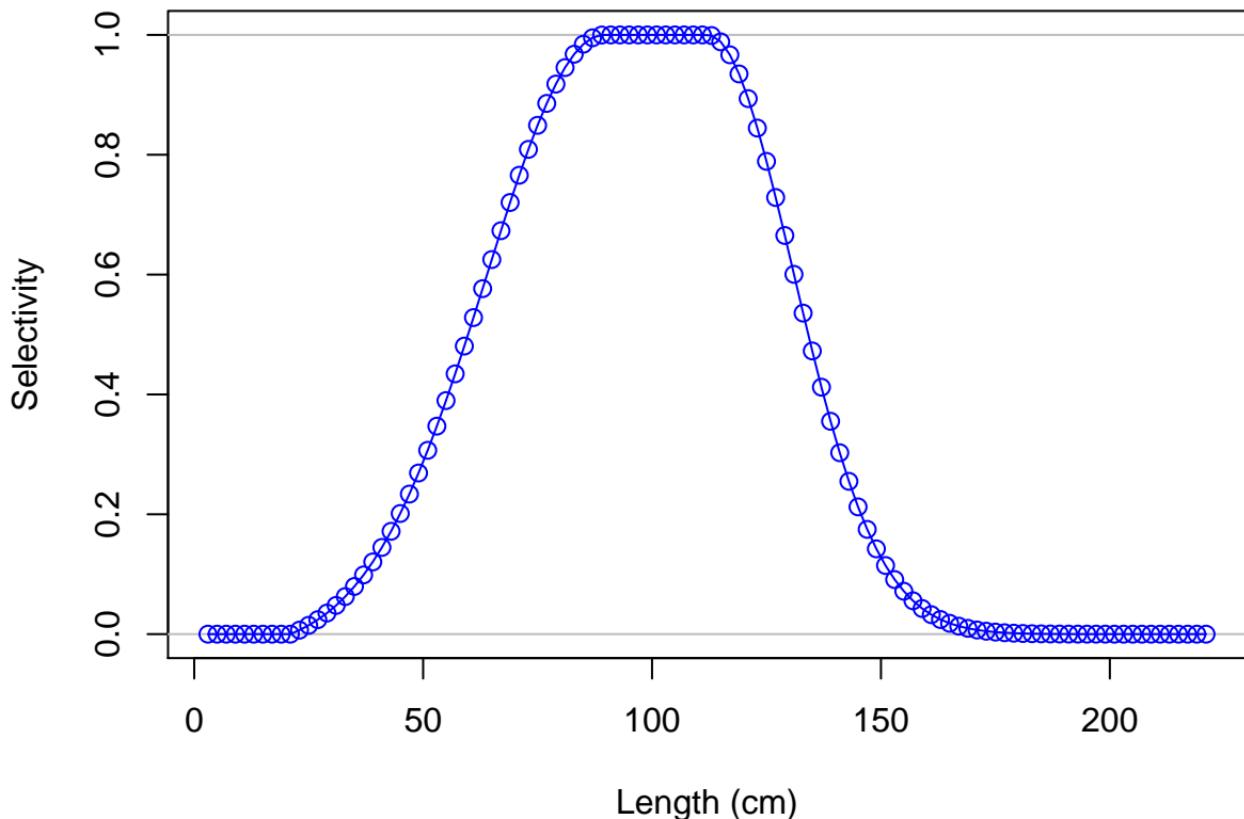
## Female ending year selectivity for A2–NOADEL



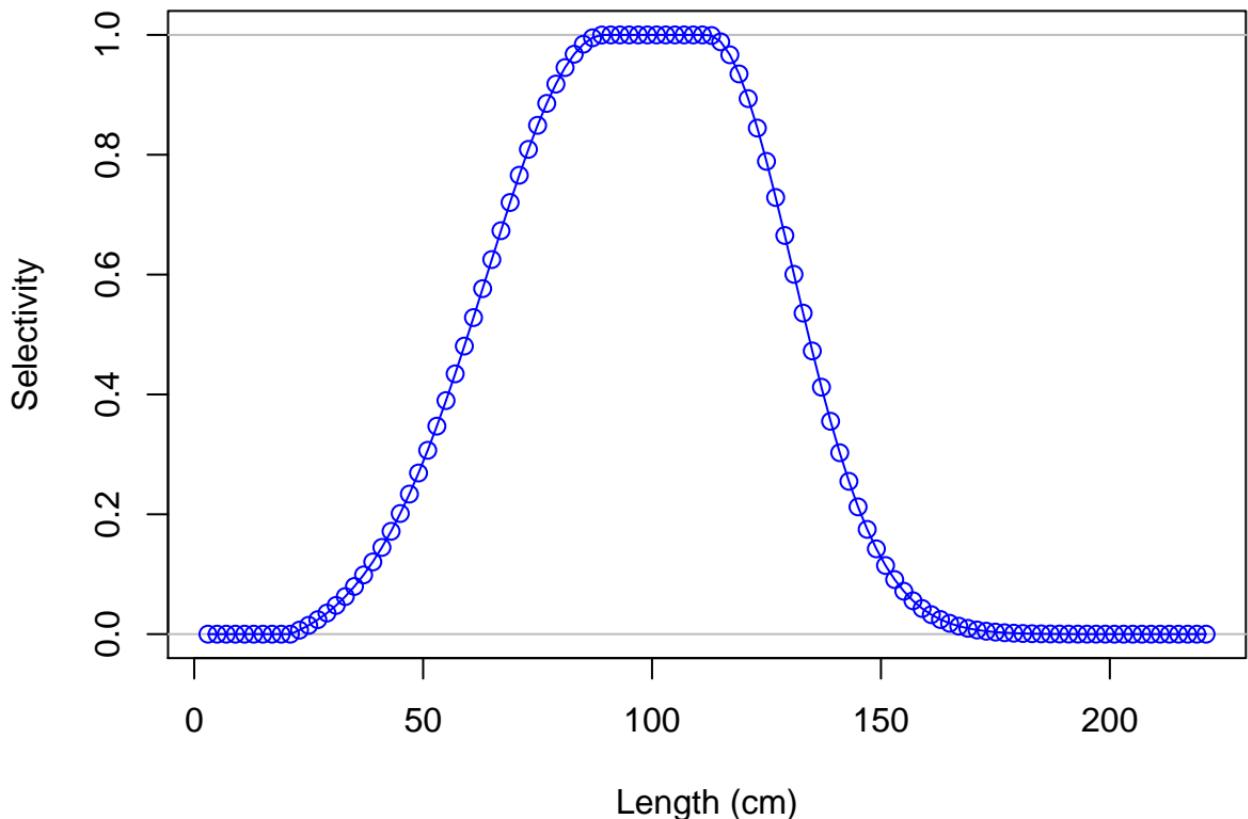
## Male ending year selectivity for A2-NOADEL



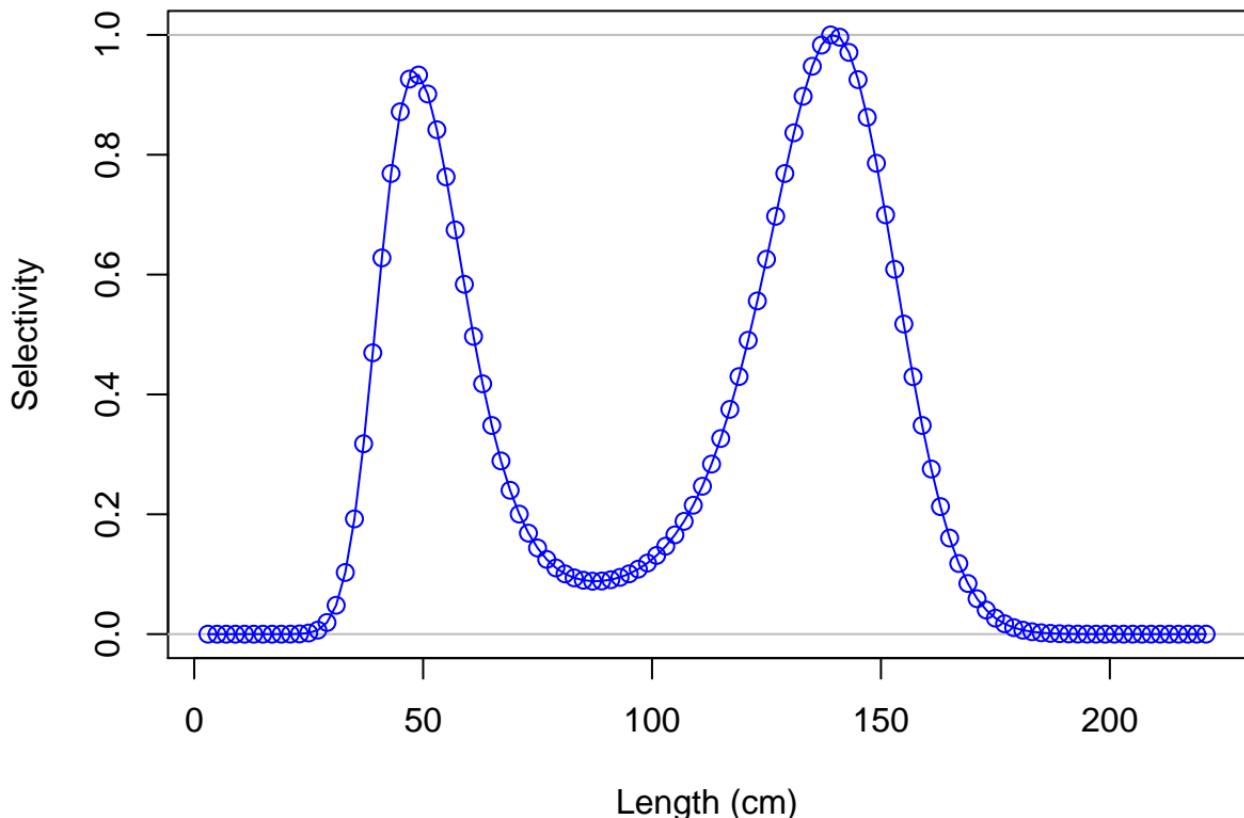
## Female ending year selectivity for A3–NOADEL



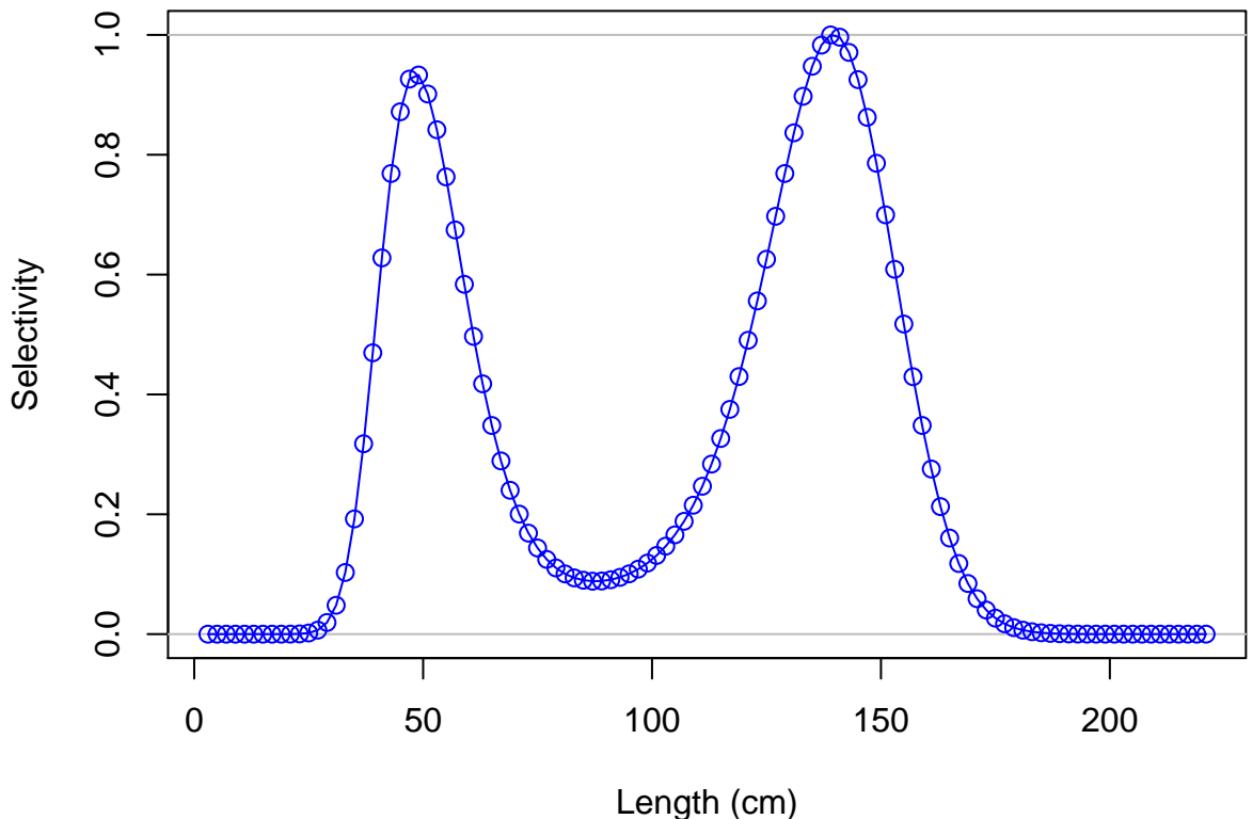
## Male ending year selectivity for A3-NOADEL



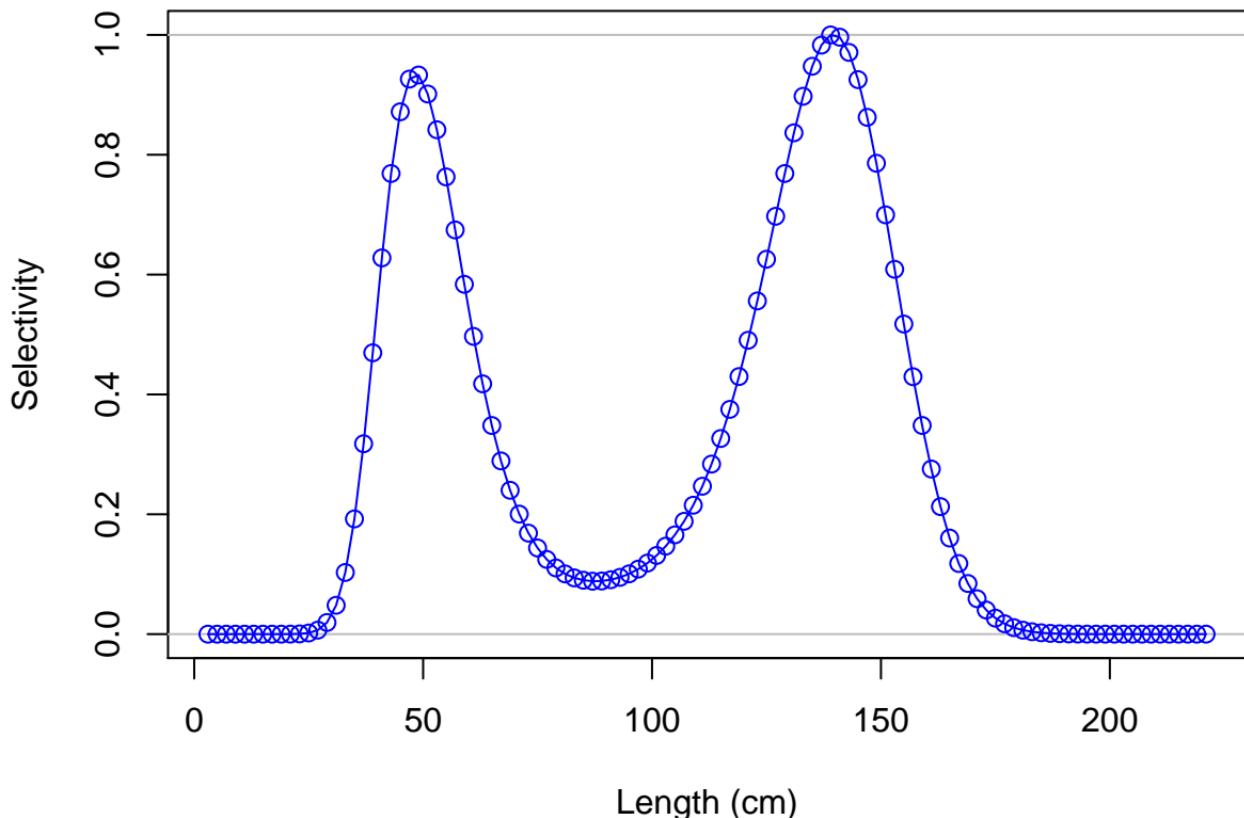
## Female ending year selectivity for A4–NOADEL



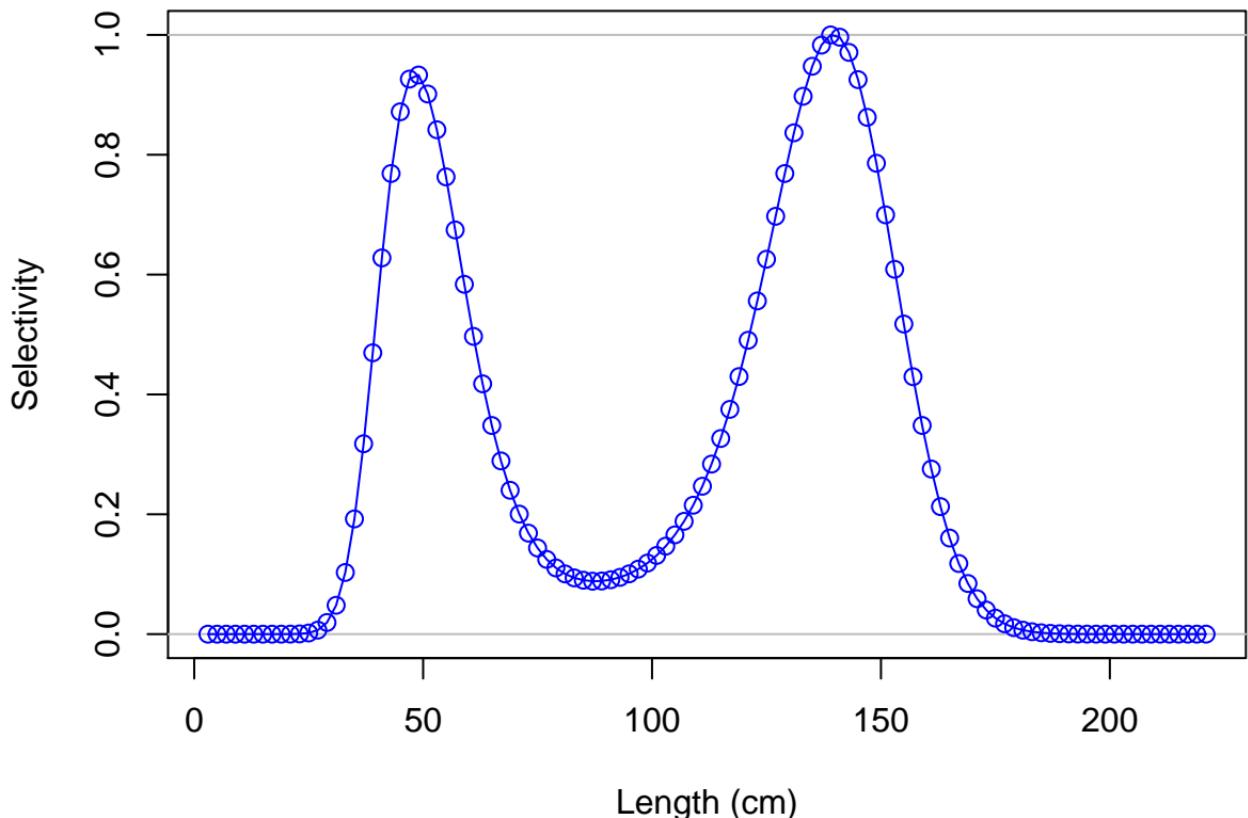
## Male ending year selectivity for A4–NOADEL



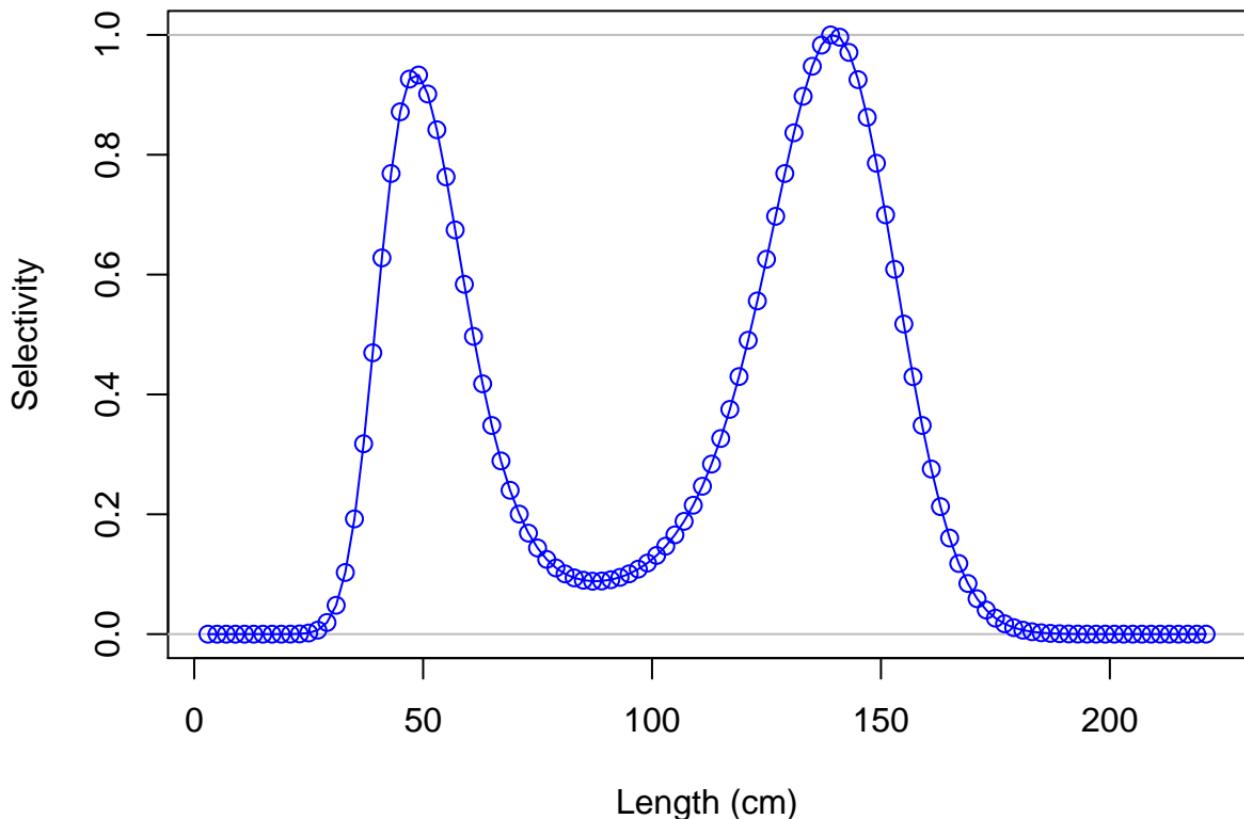
## Female ending year selectivity for A5–NOADEL



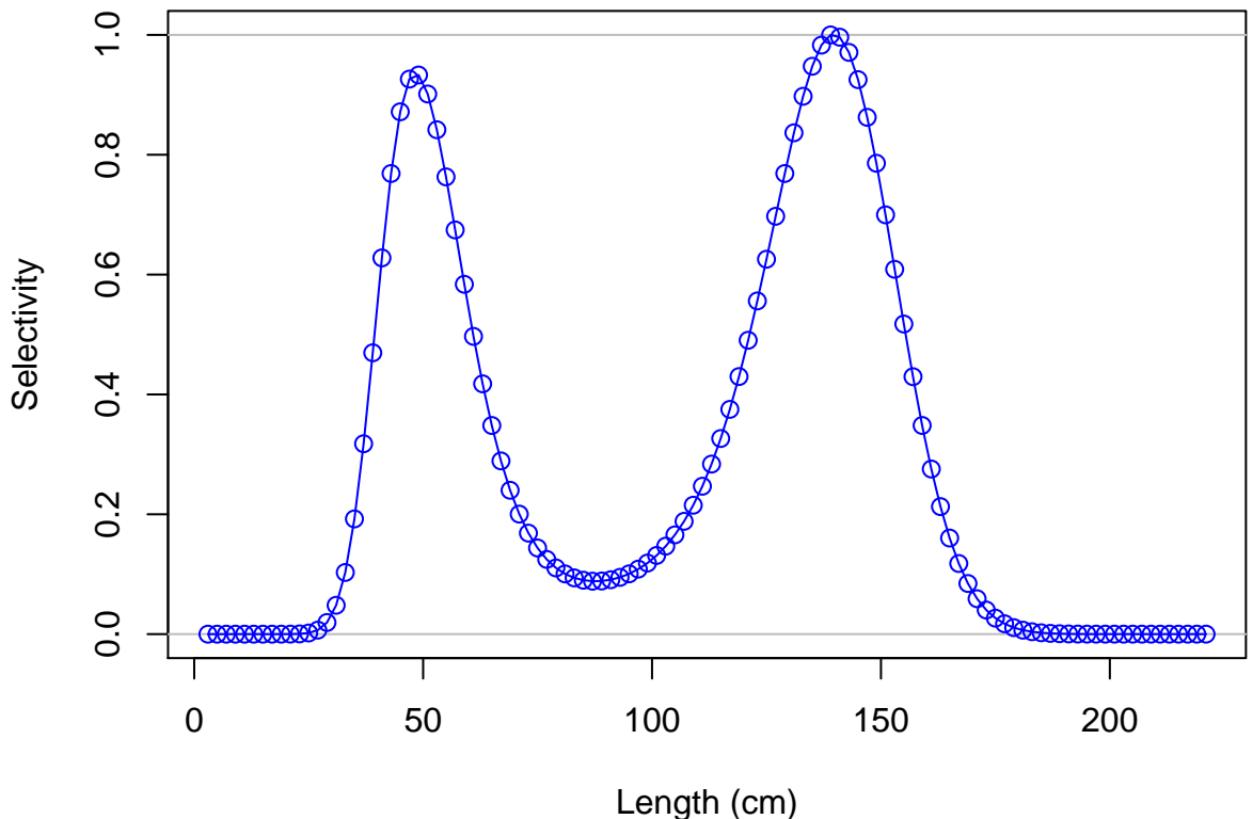
## Male ending year selectivity for A5-NOADEL



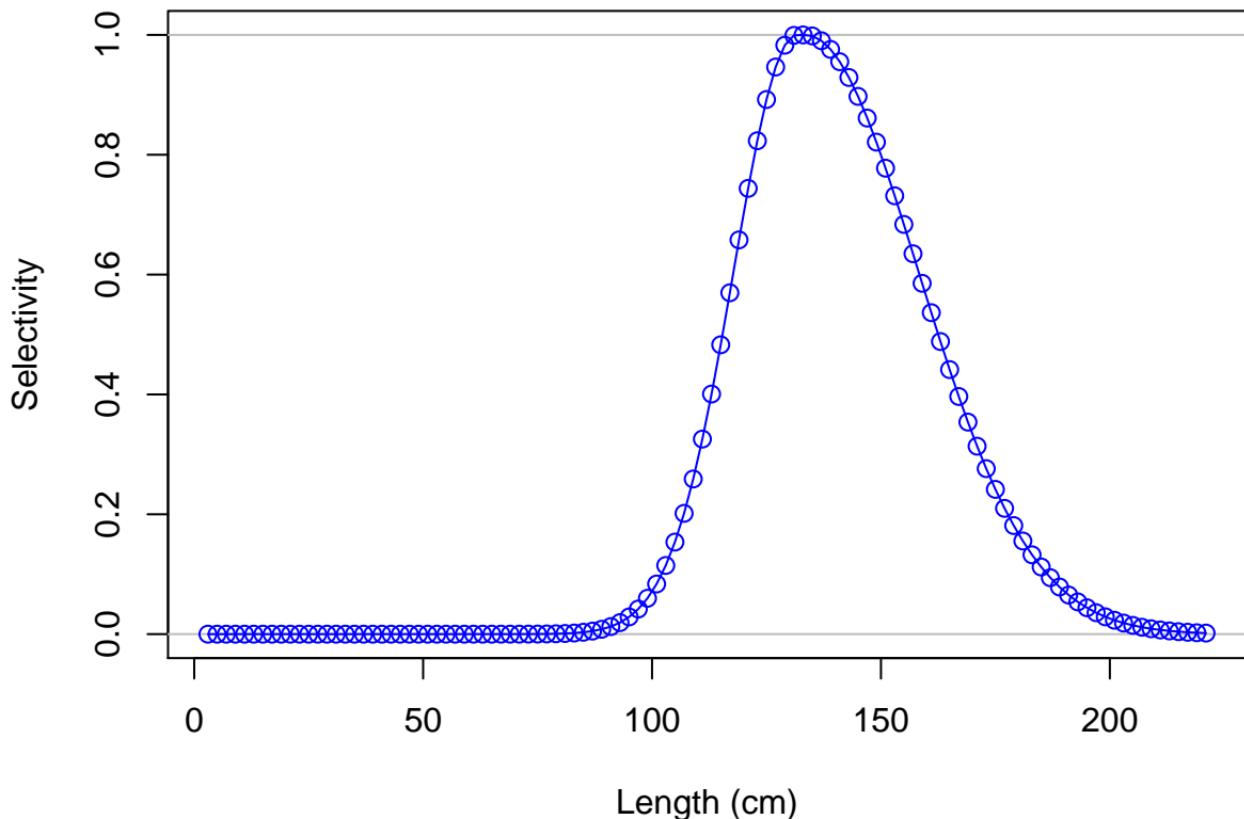
## Female ending year selectivity for A6–NOADEL



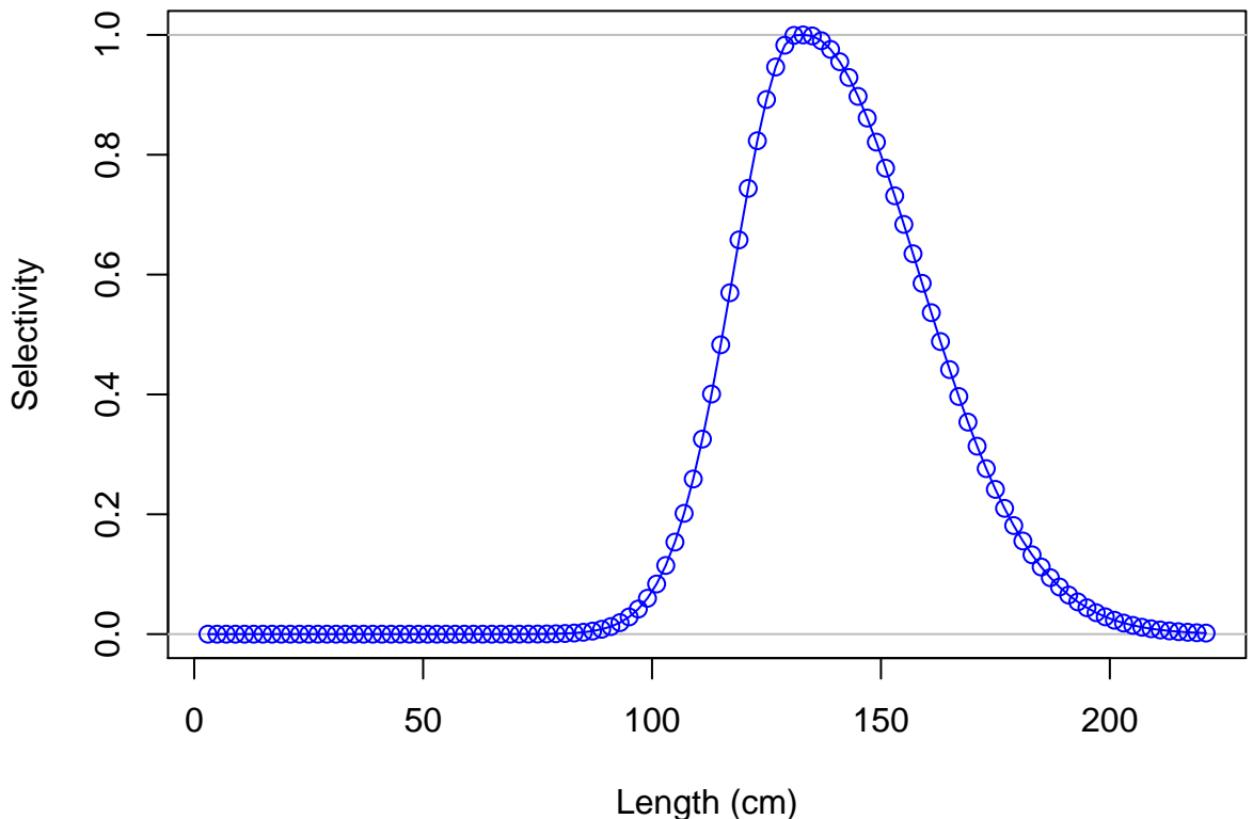
## Male ending year selectivity for A6-NOADEL



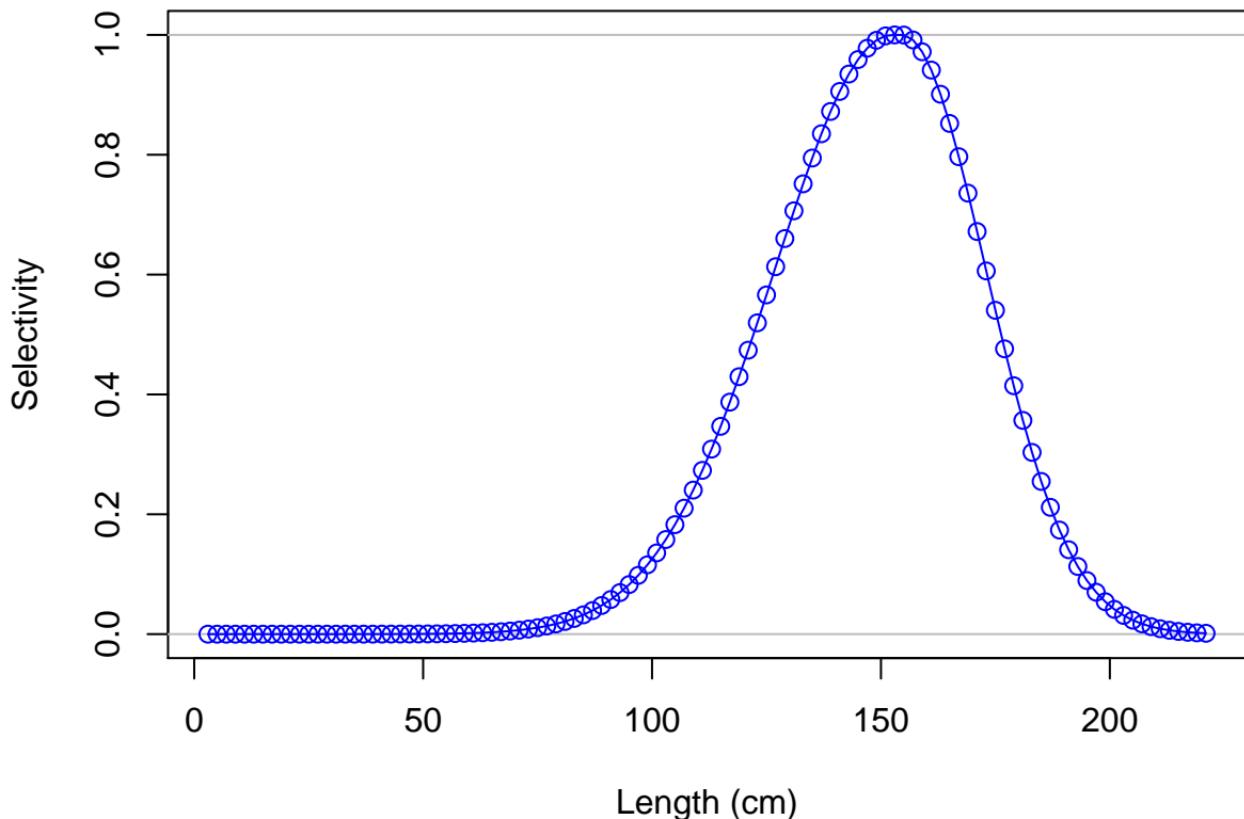
## Female ending year selectivity for EPO-LL-survey-early



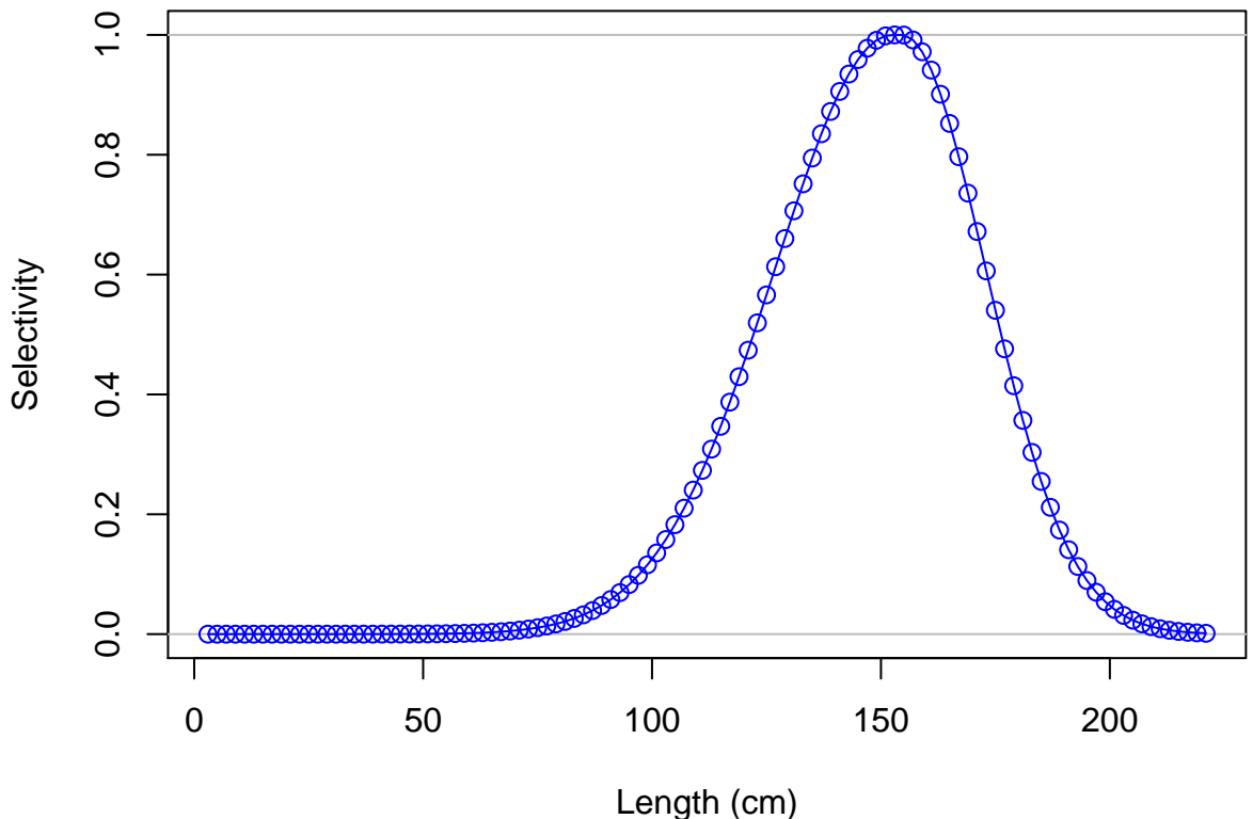
## Male ending year selectivity for EPO-LL-survey-early



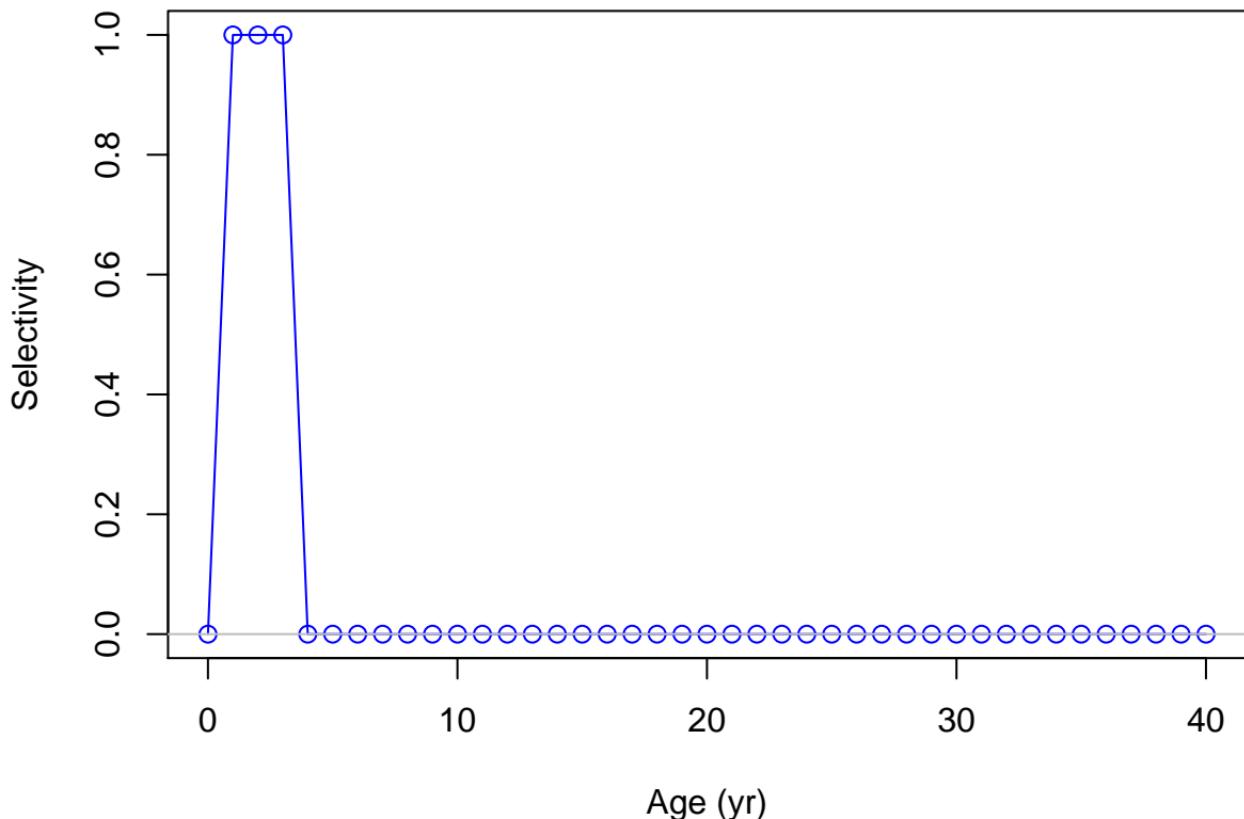
## Female ending year selectivity for EPO-LL-survey-late



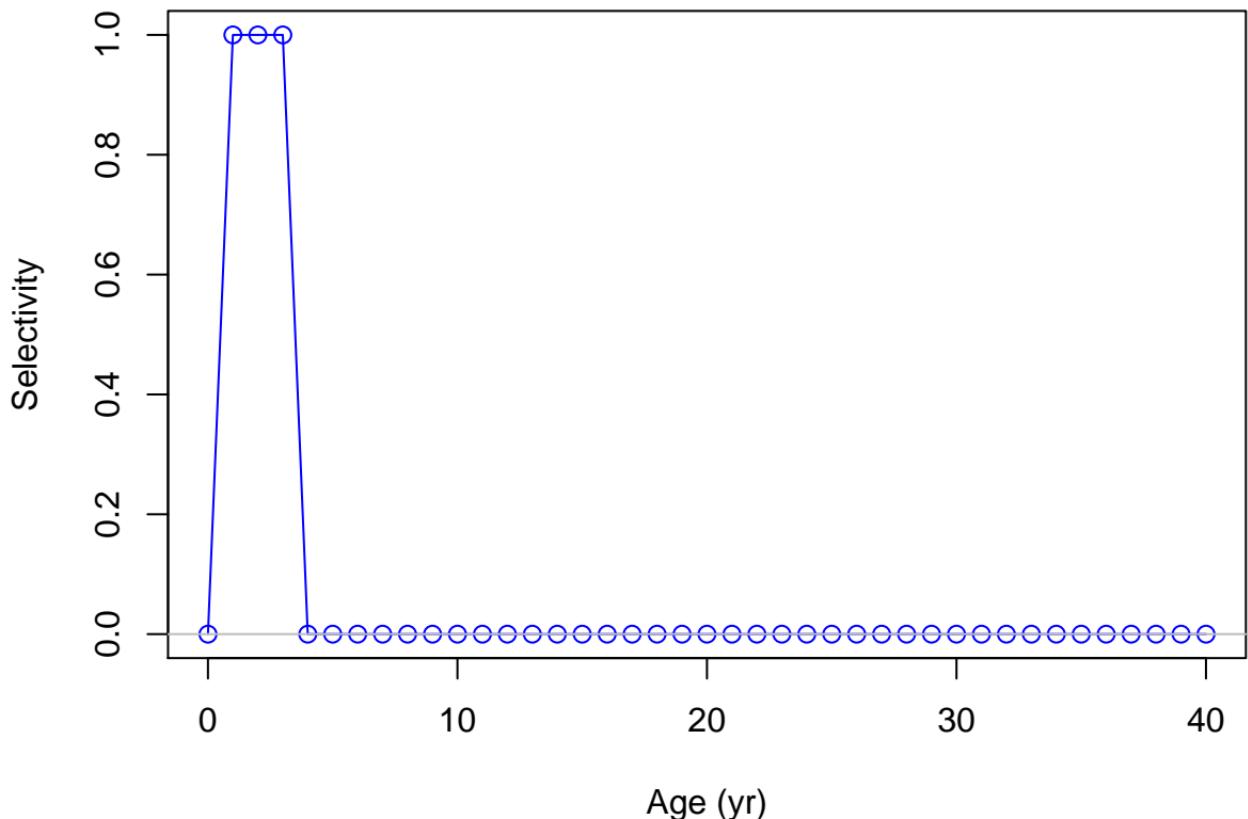
## Male ending year selectivity for EPO-LL-survey-late



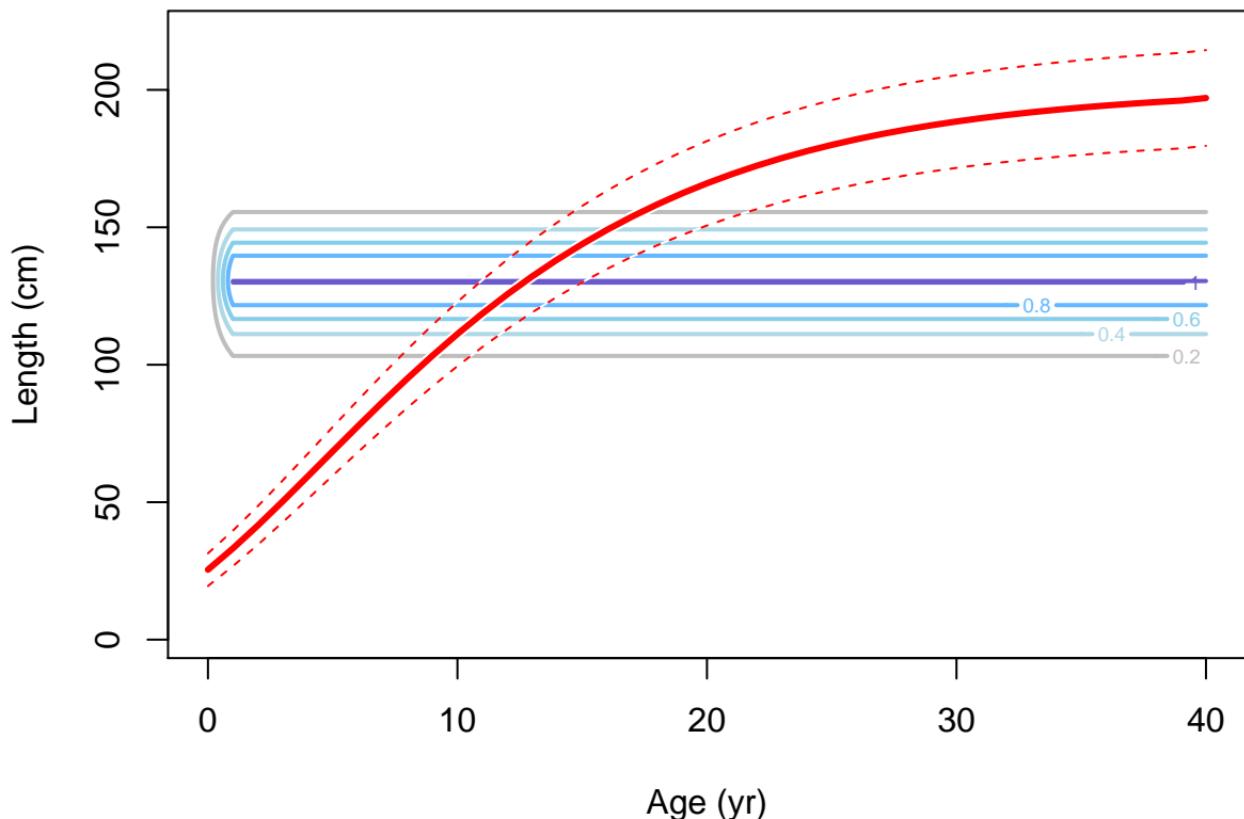
## Female ending year selectivity for EPO–OBJ–Disc



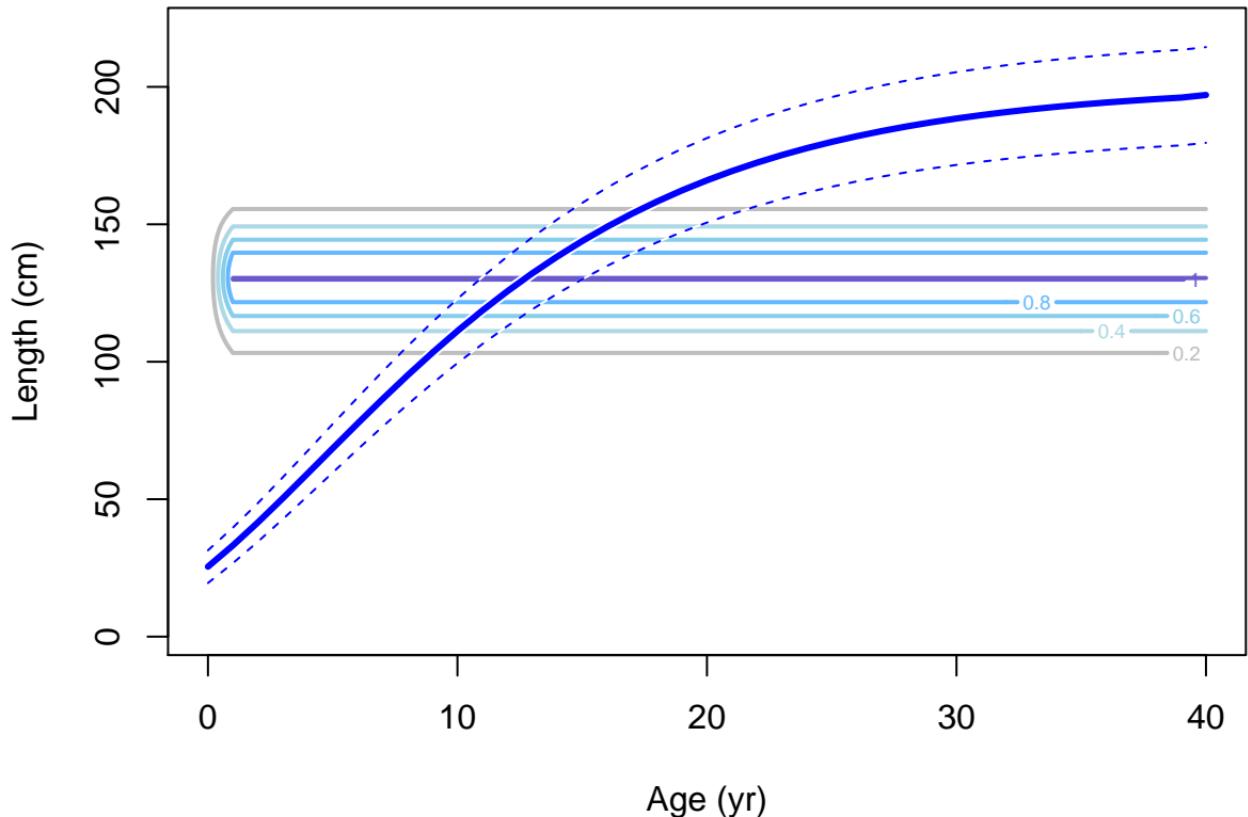
## Male ending year selectivity for EPO-OBJ-Disc



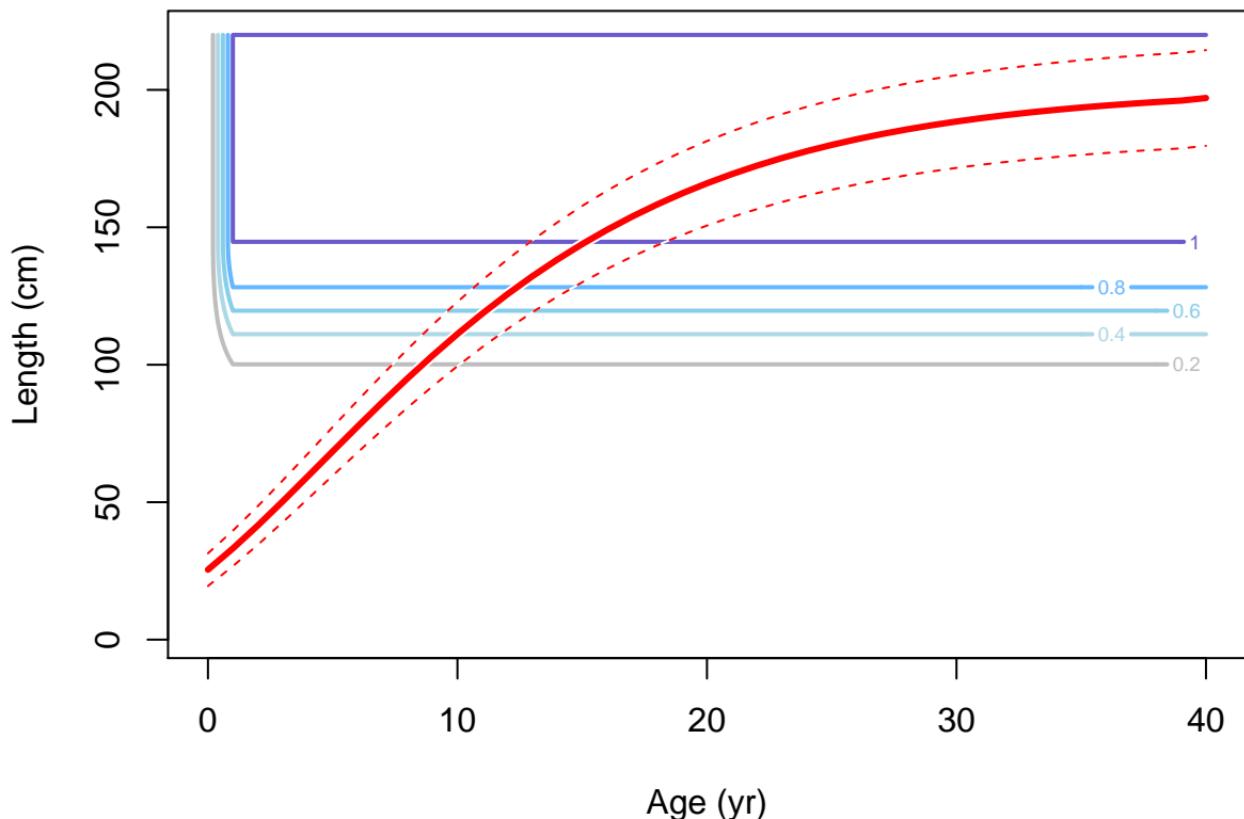
## Female ending year selectivity and growth for A1-LL-n



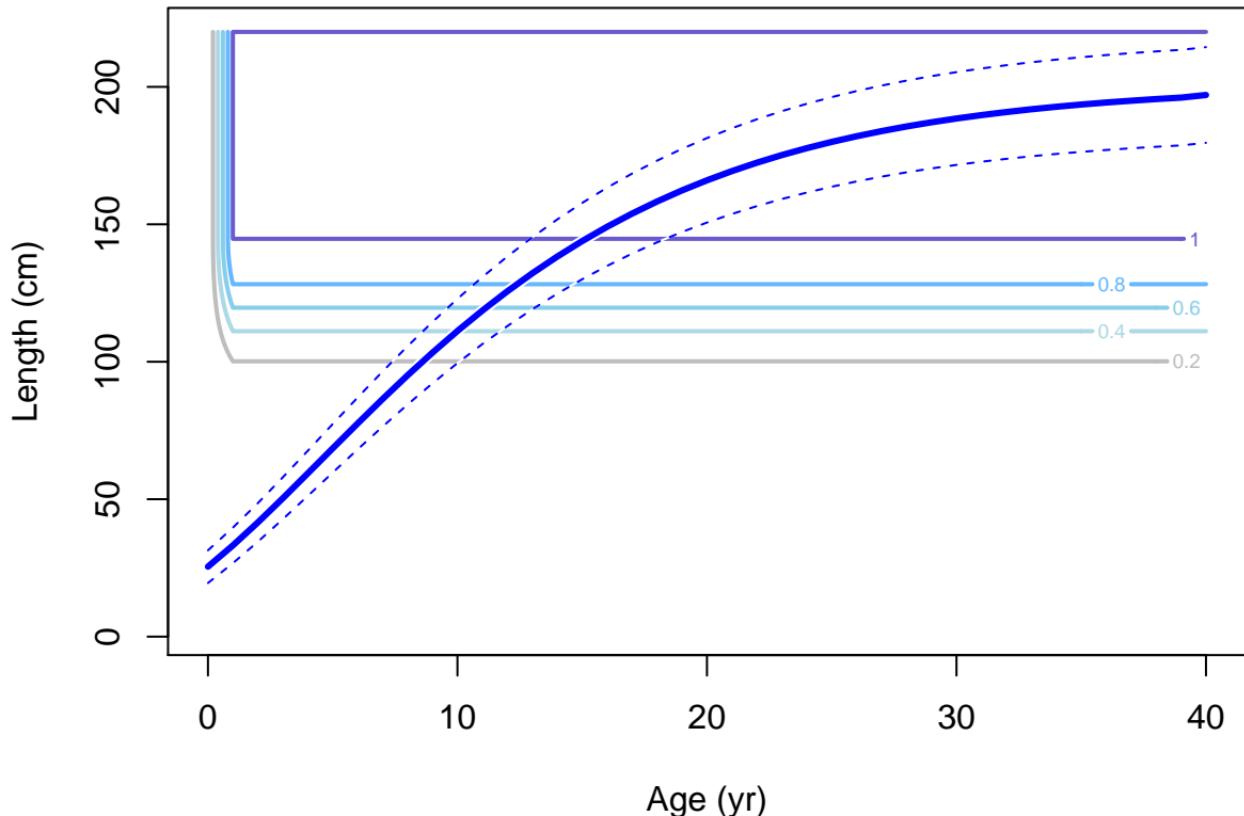
## Male ending year selectivity and growth for A1-LL-n



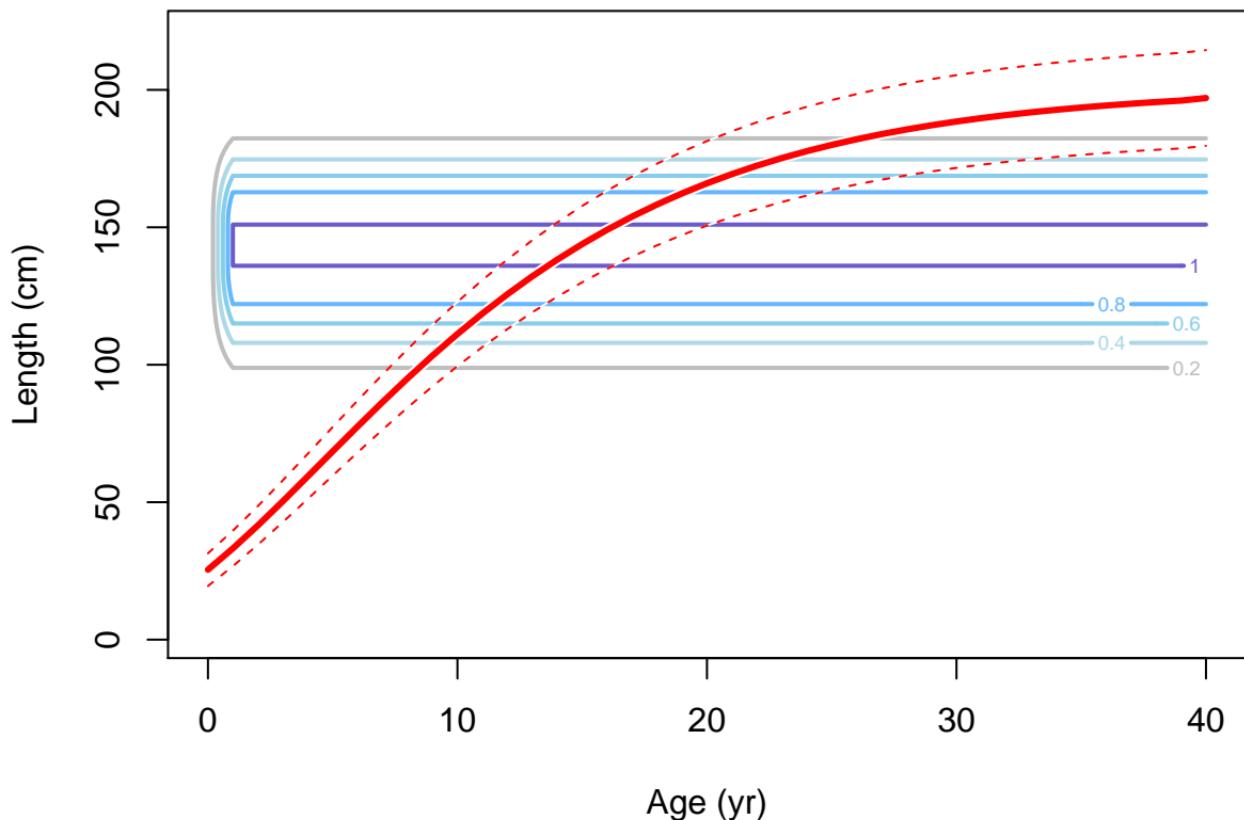
## Female ending year selectivity and growth for A2-LL-n



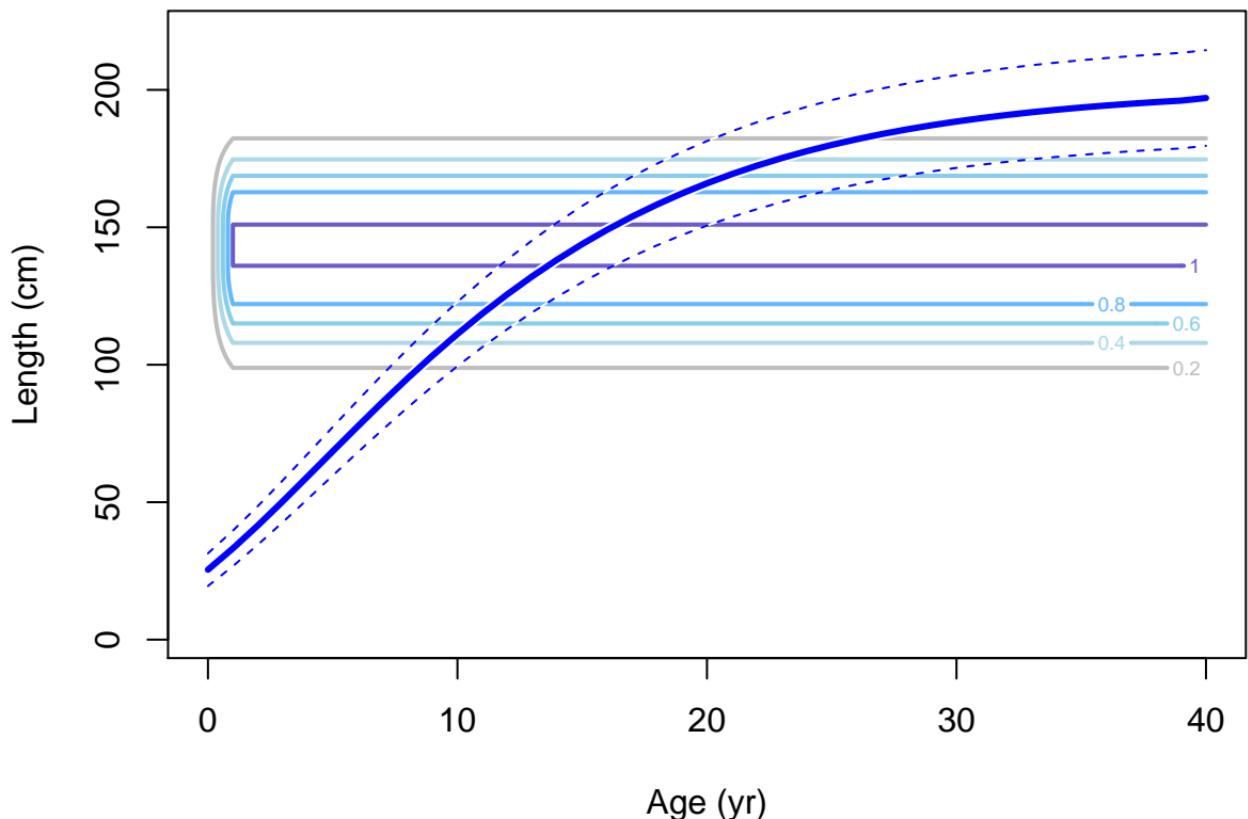
## Male ending year selectivity and growth for A2-LL-n



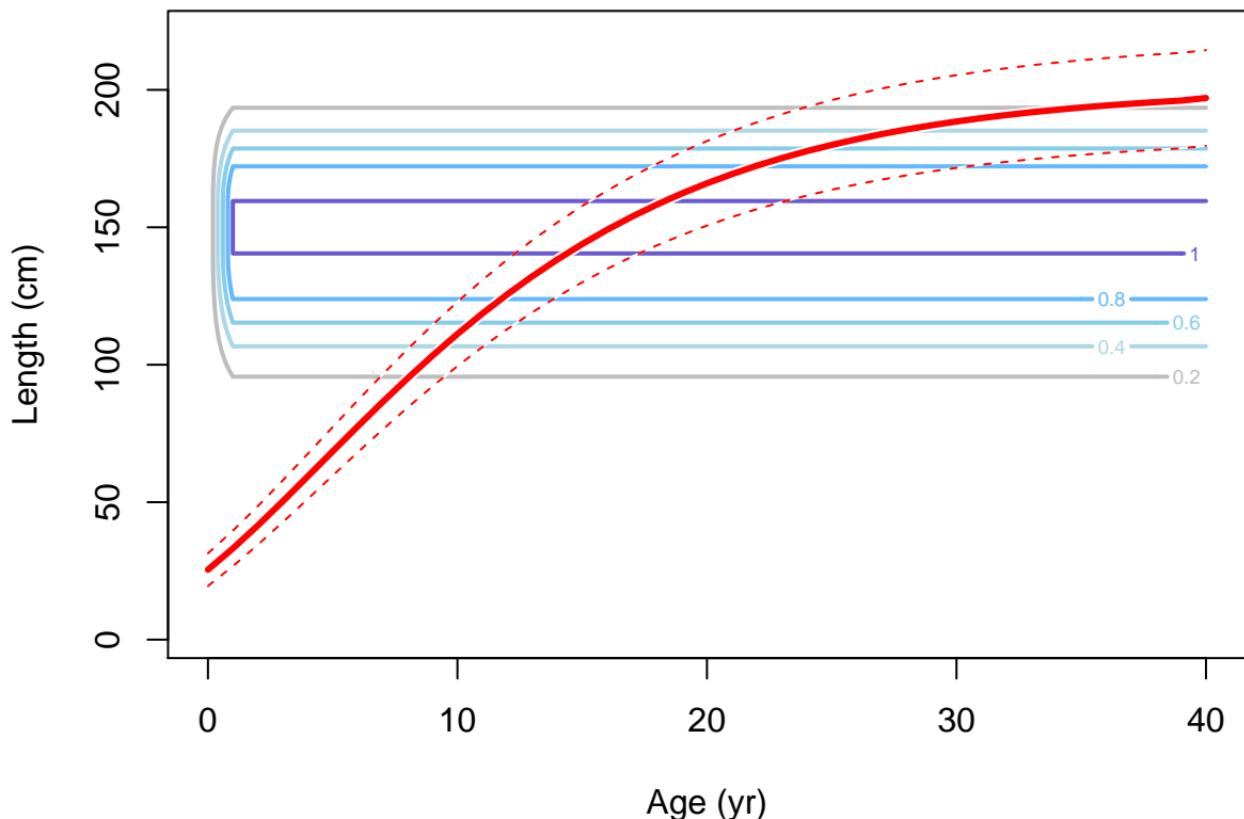
## Female ending year selectivity and growth for A3-LL-n



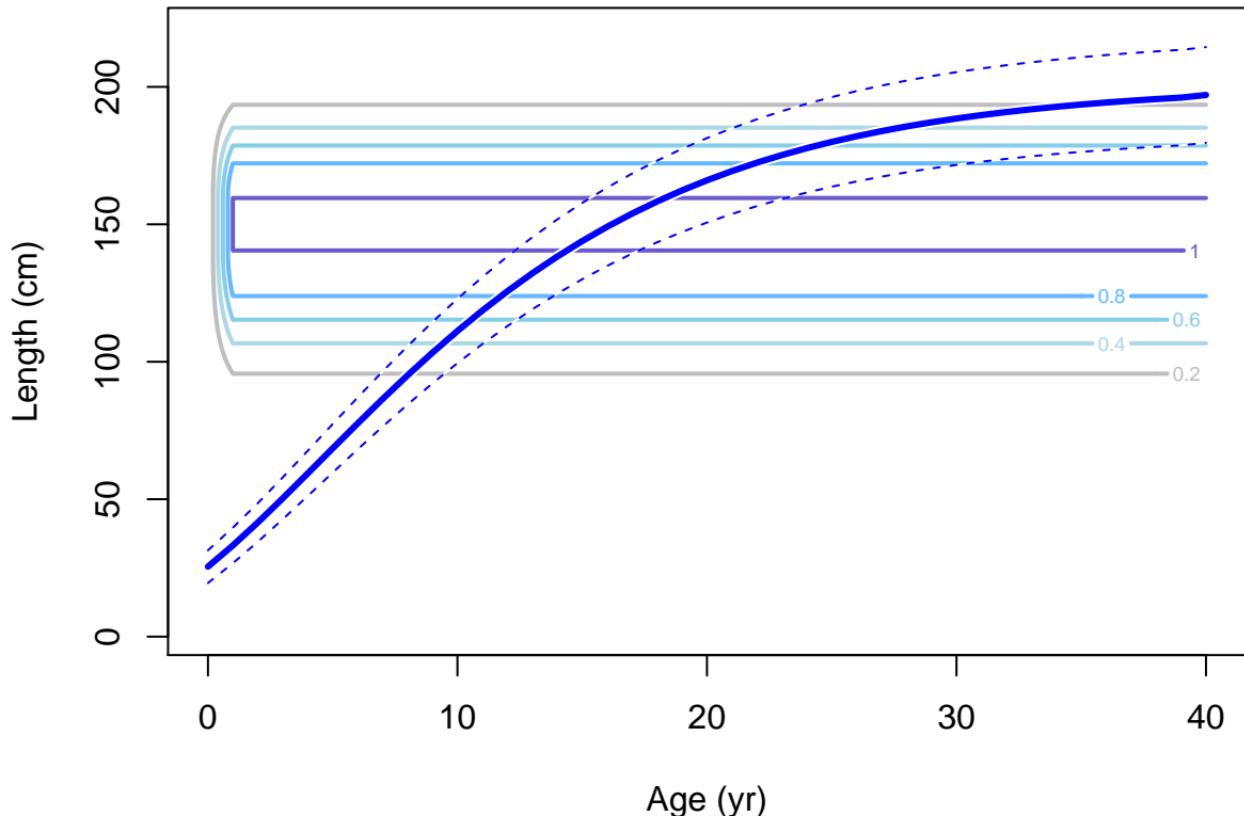
## Male ending year selectivity and growth for A3-LL-n



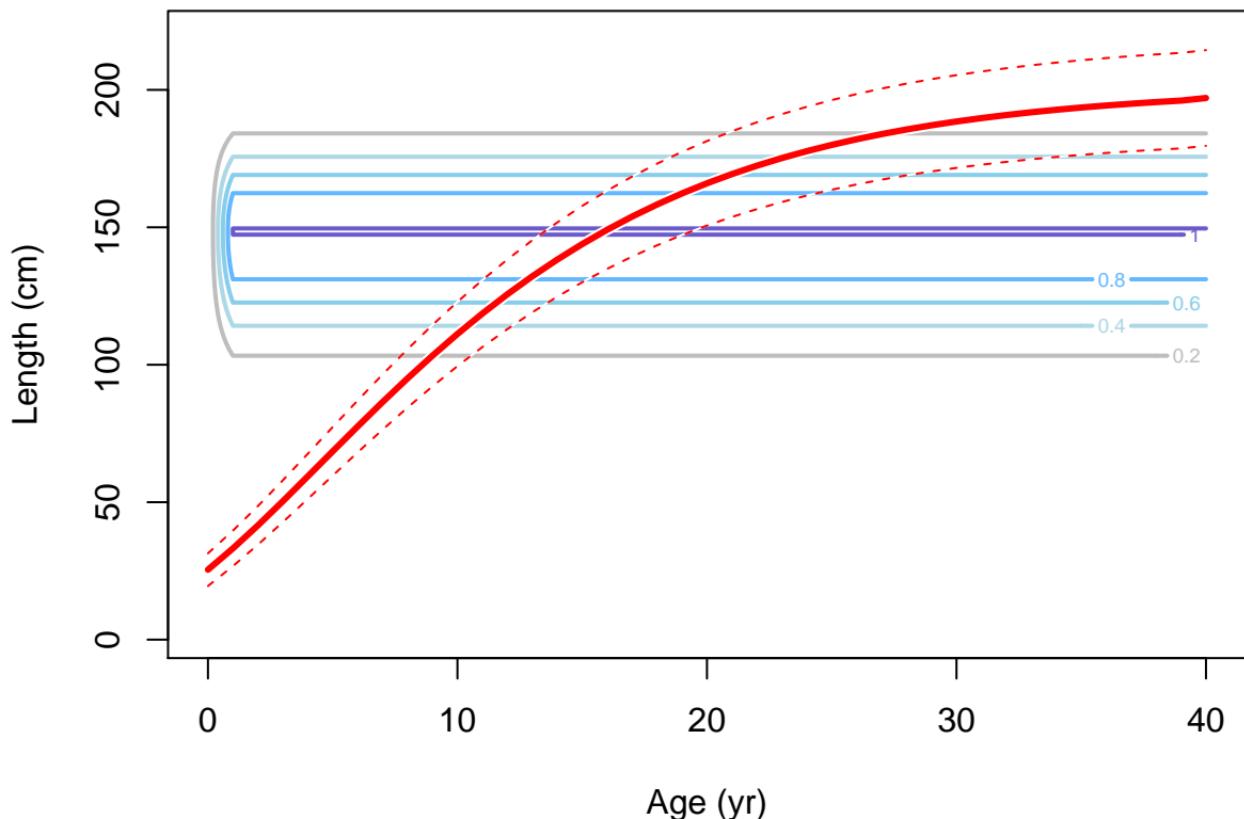
## Female ending year selectivity and growth for A4-LL-n



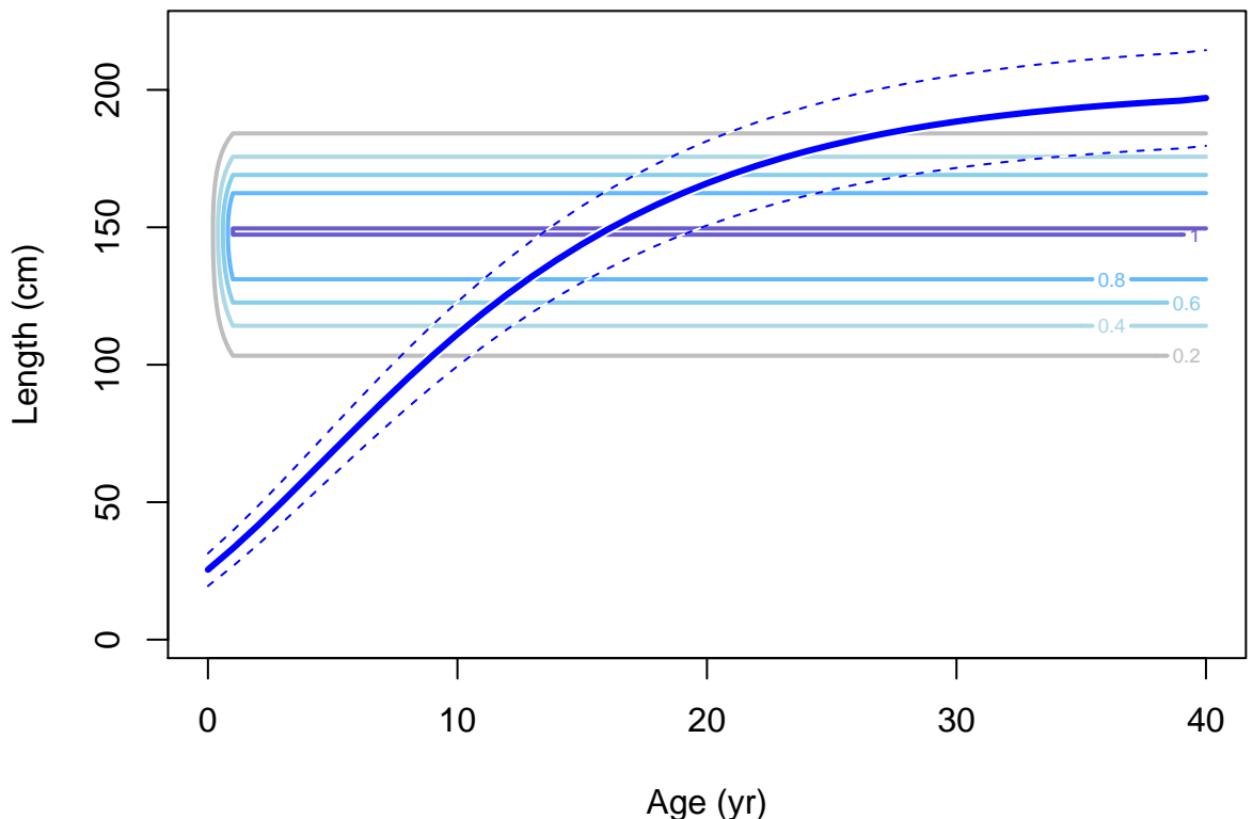
## Male ending year selectivity and growth for A4-LL-n



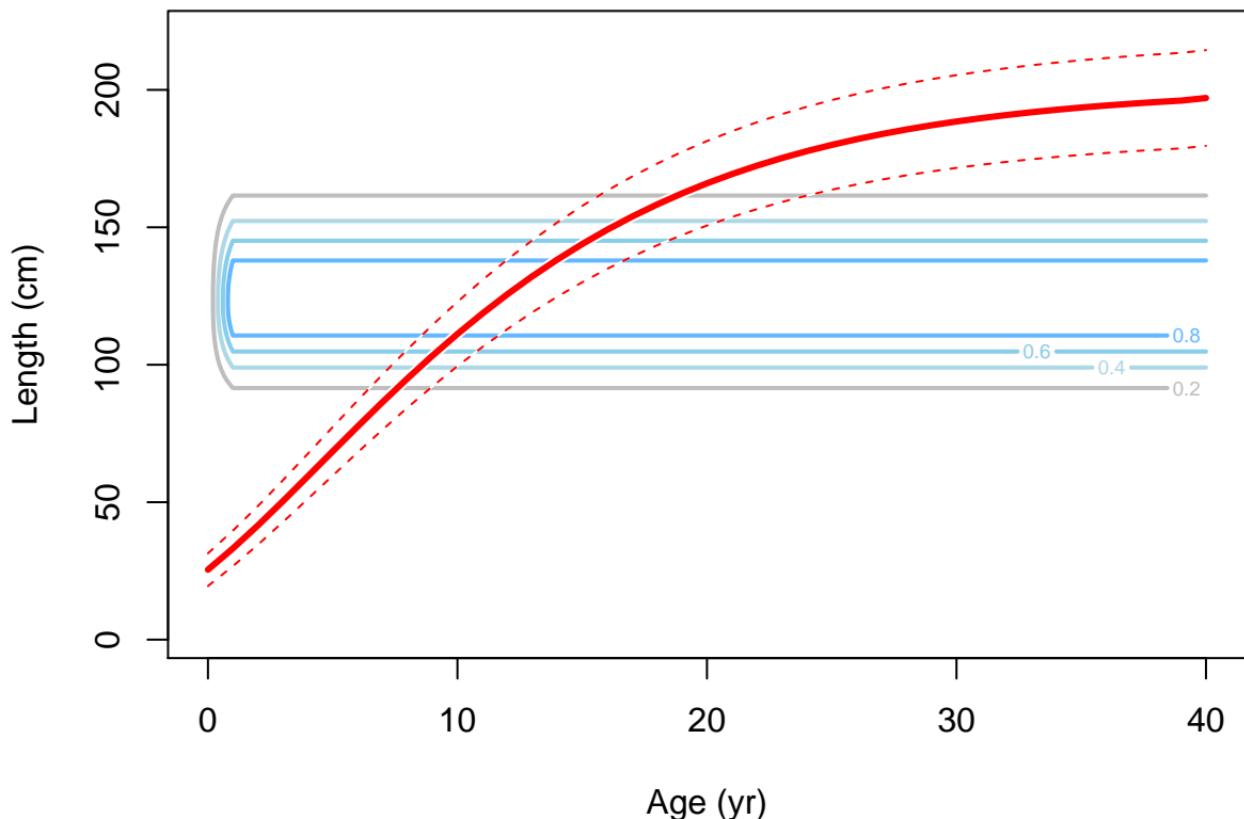
## Female ending year selectivity and growth for A5-LL-n



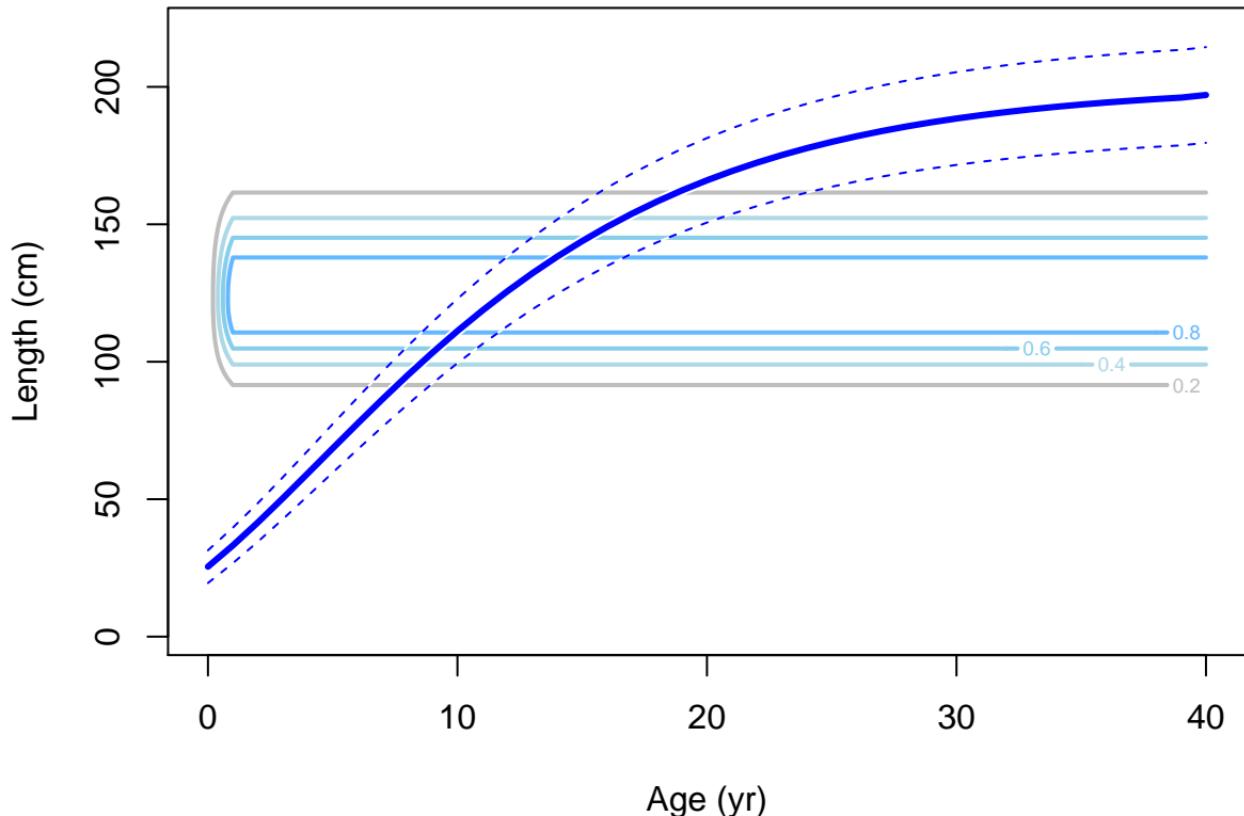
## Male ending year selectivity and growth for A5-LL-n



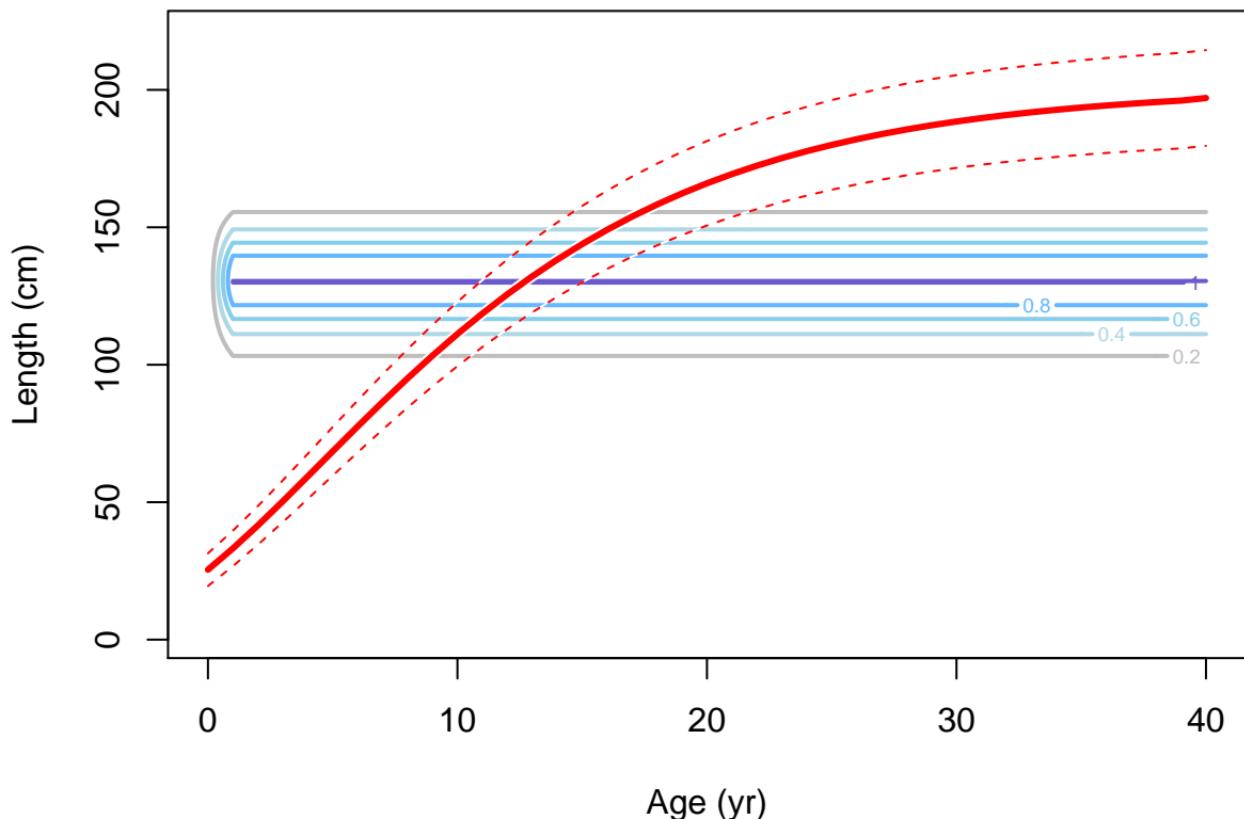
## Female ending year selectivity and growth for A6-LL-n



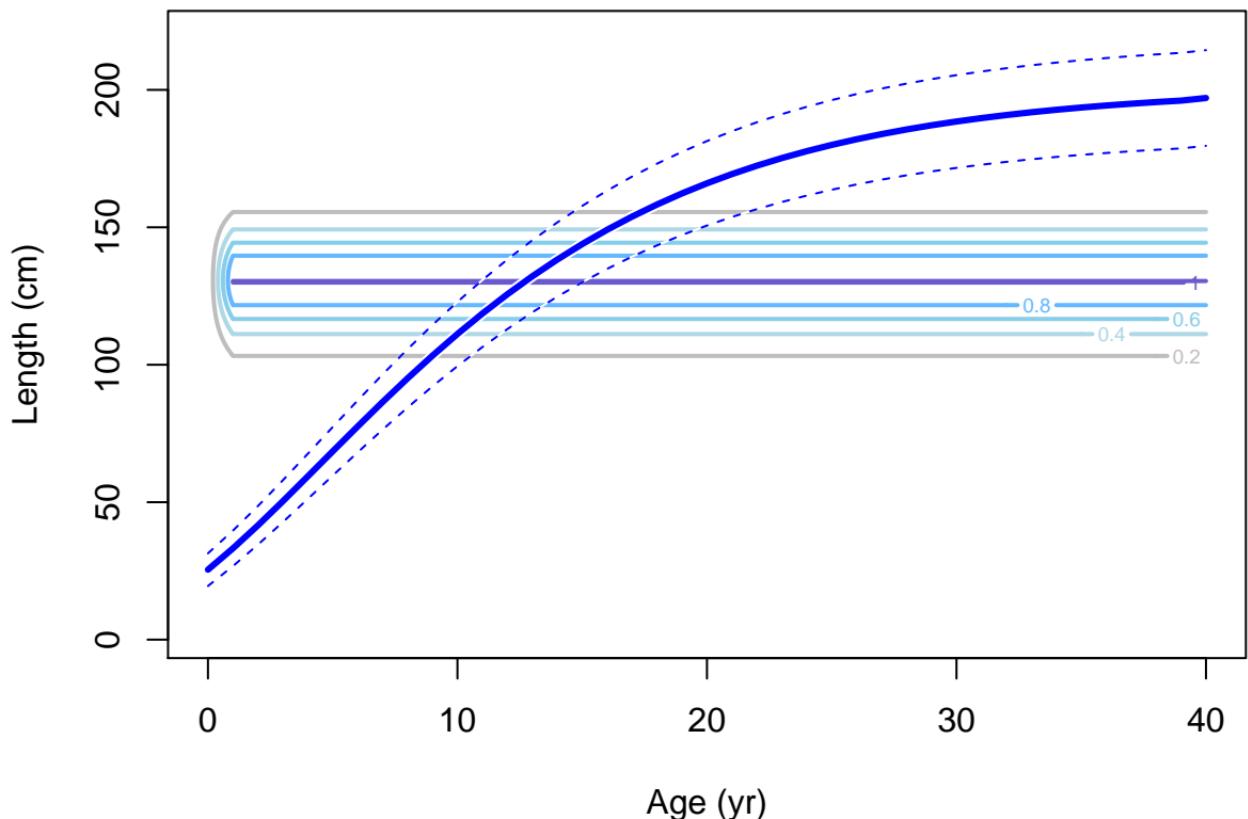
## Male ending year selectivity and growth for A6-LL-n



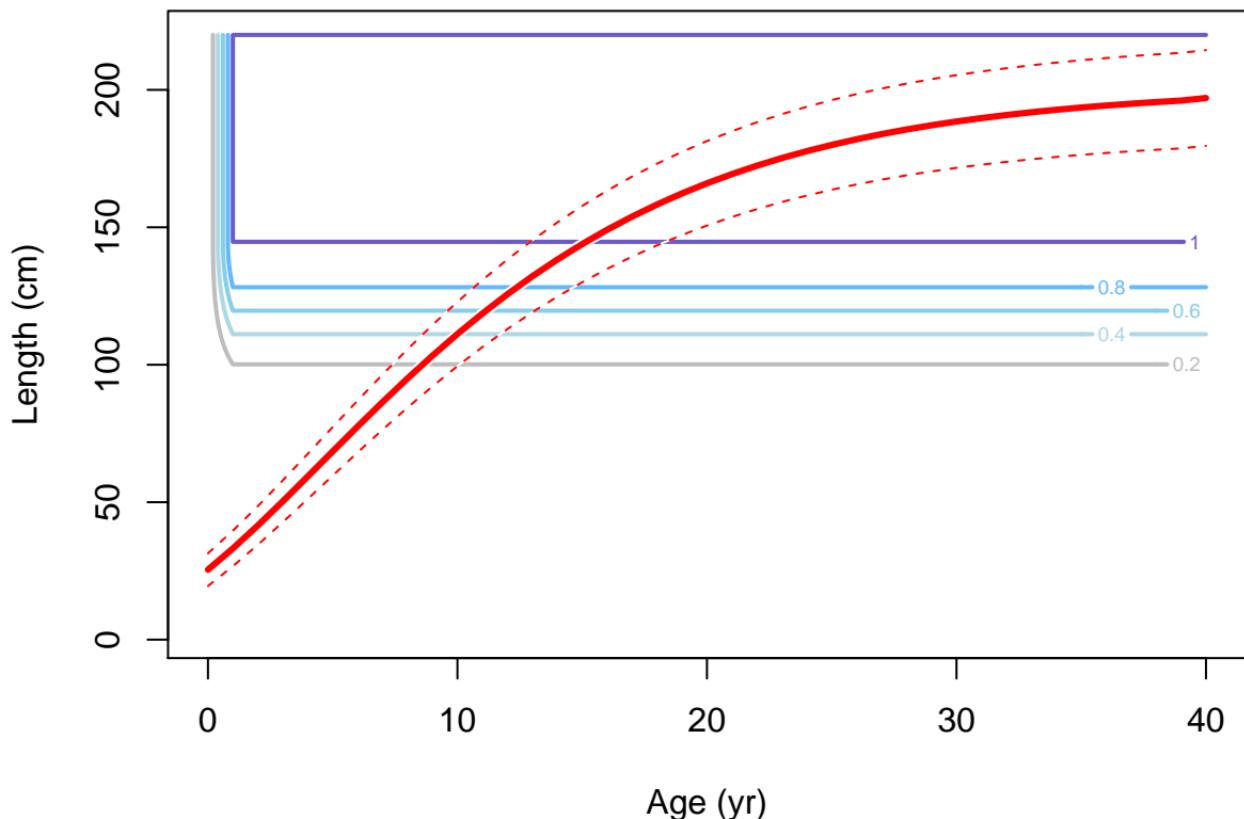
## Female ending year selectivity and growth for A1-LL-w



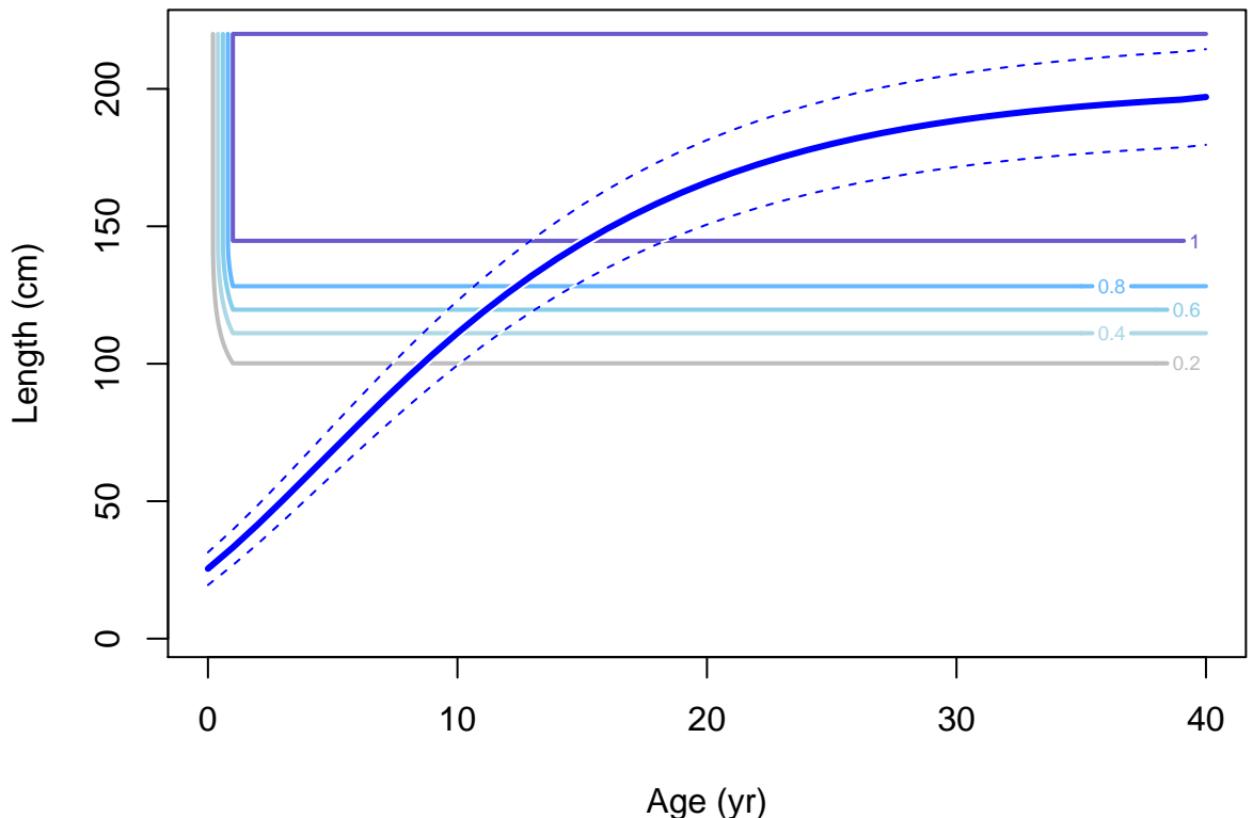
## Male ending year selectivity and growth for A1-LL-w



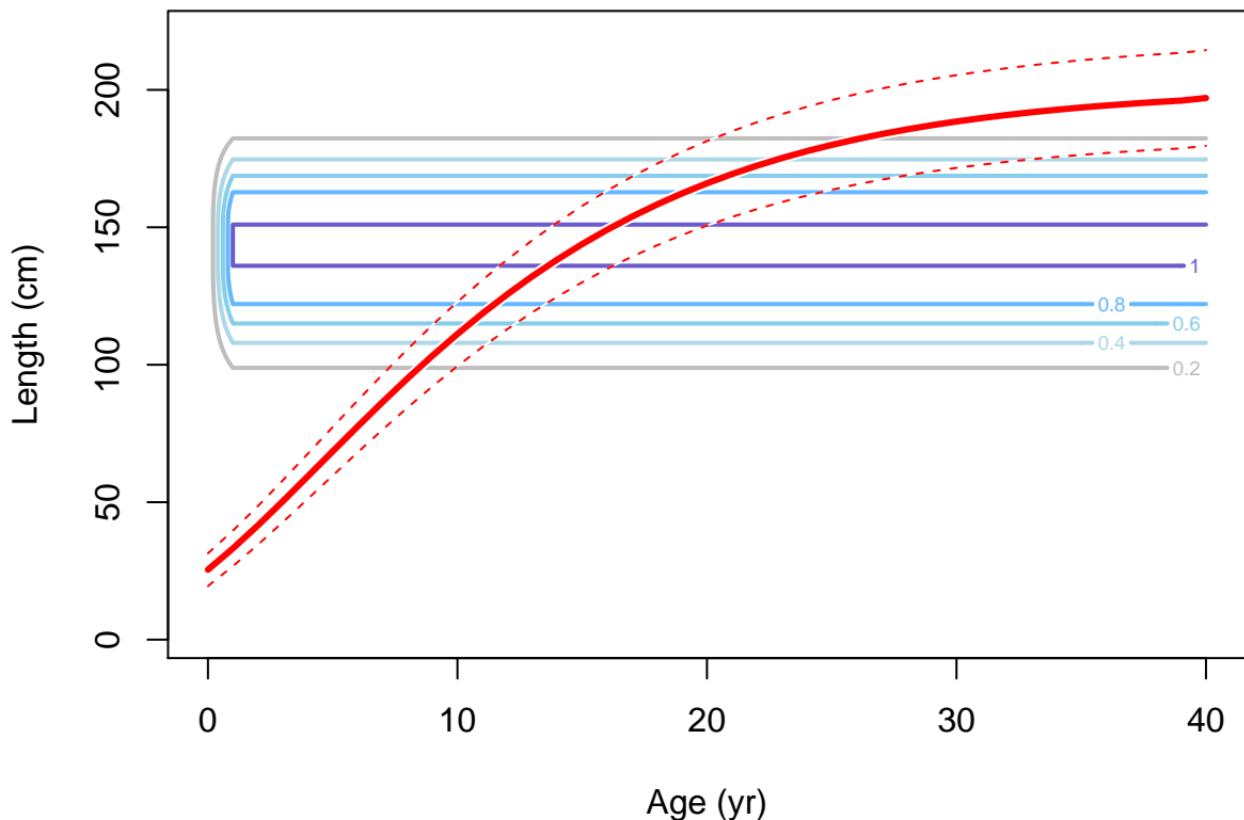
## Female ending year selectivity and growth for A2-LL-w



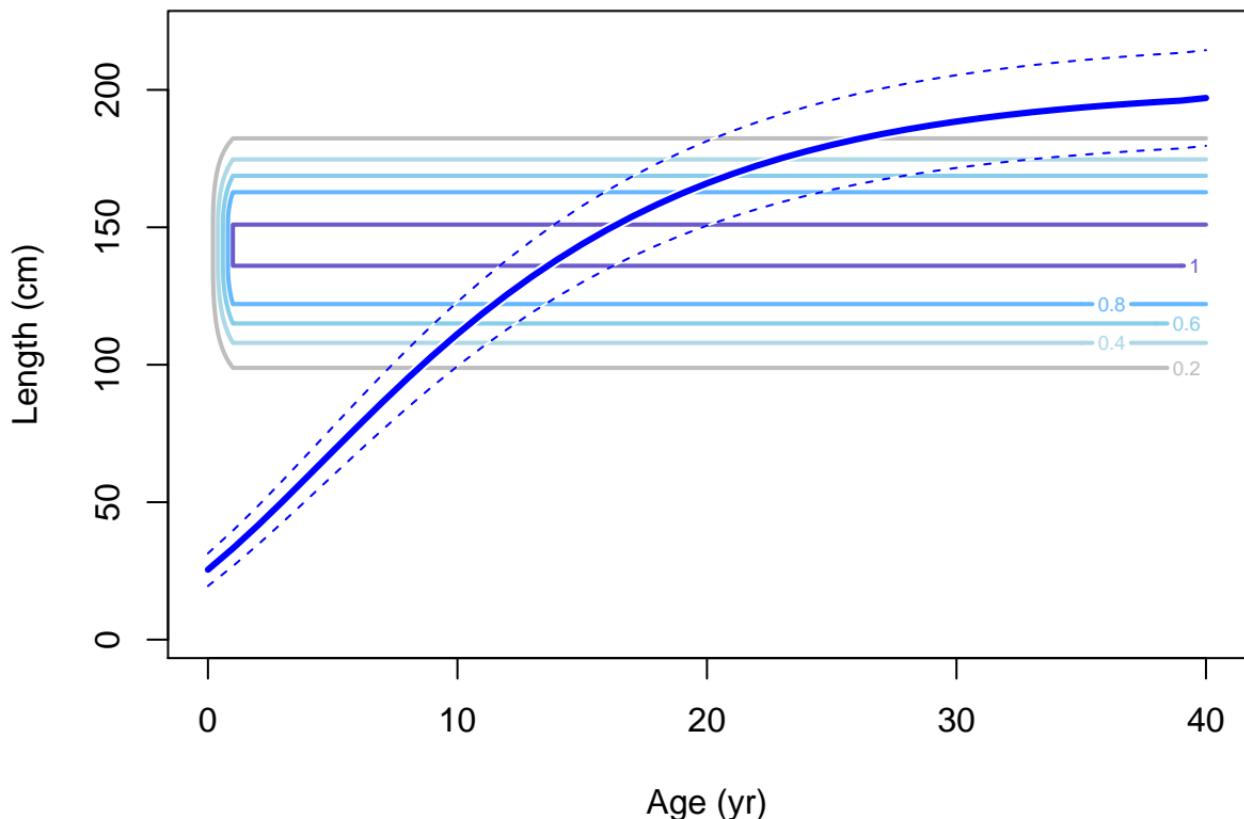
## Male ending year selectivity and growth for A2-LL-w



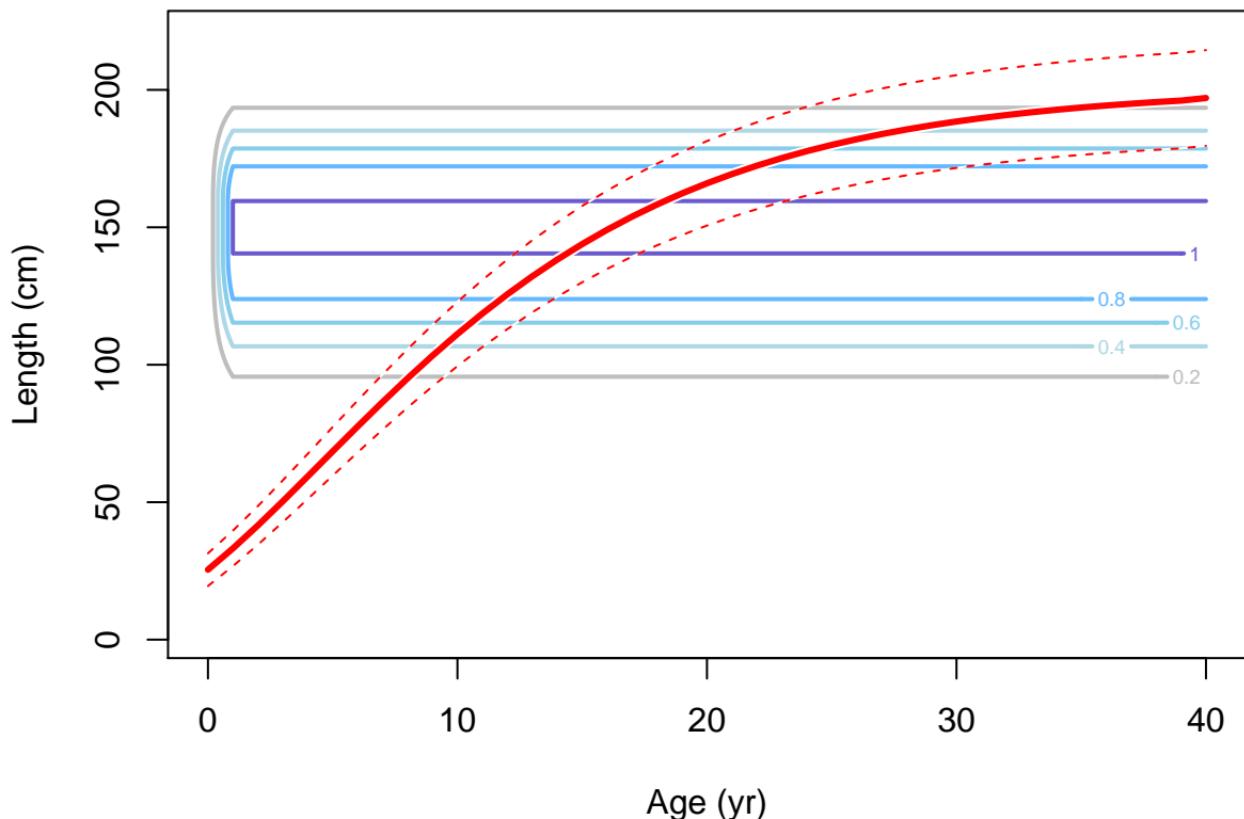
## Female ending year selectivity and growth for A3-LL-w



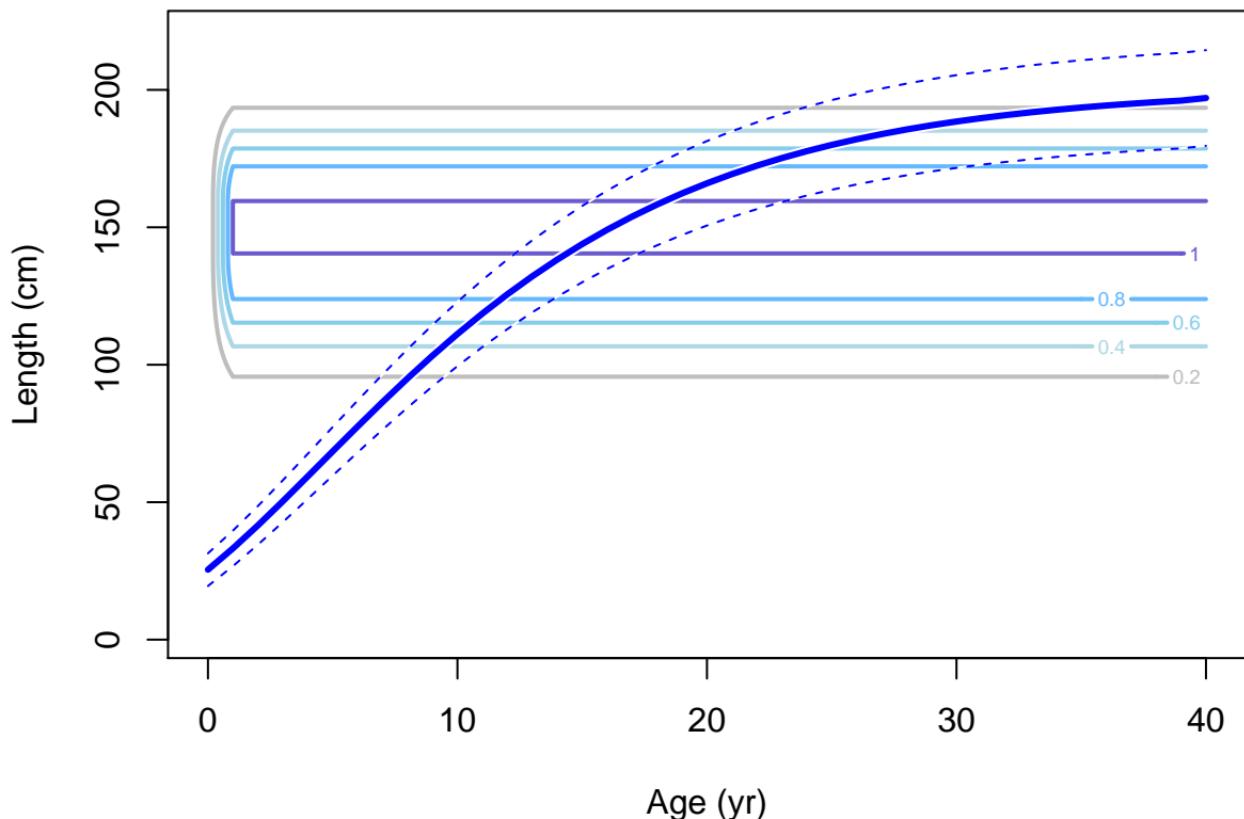
## Male ending year selectivity and growth for A3-LL-w



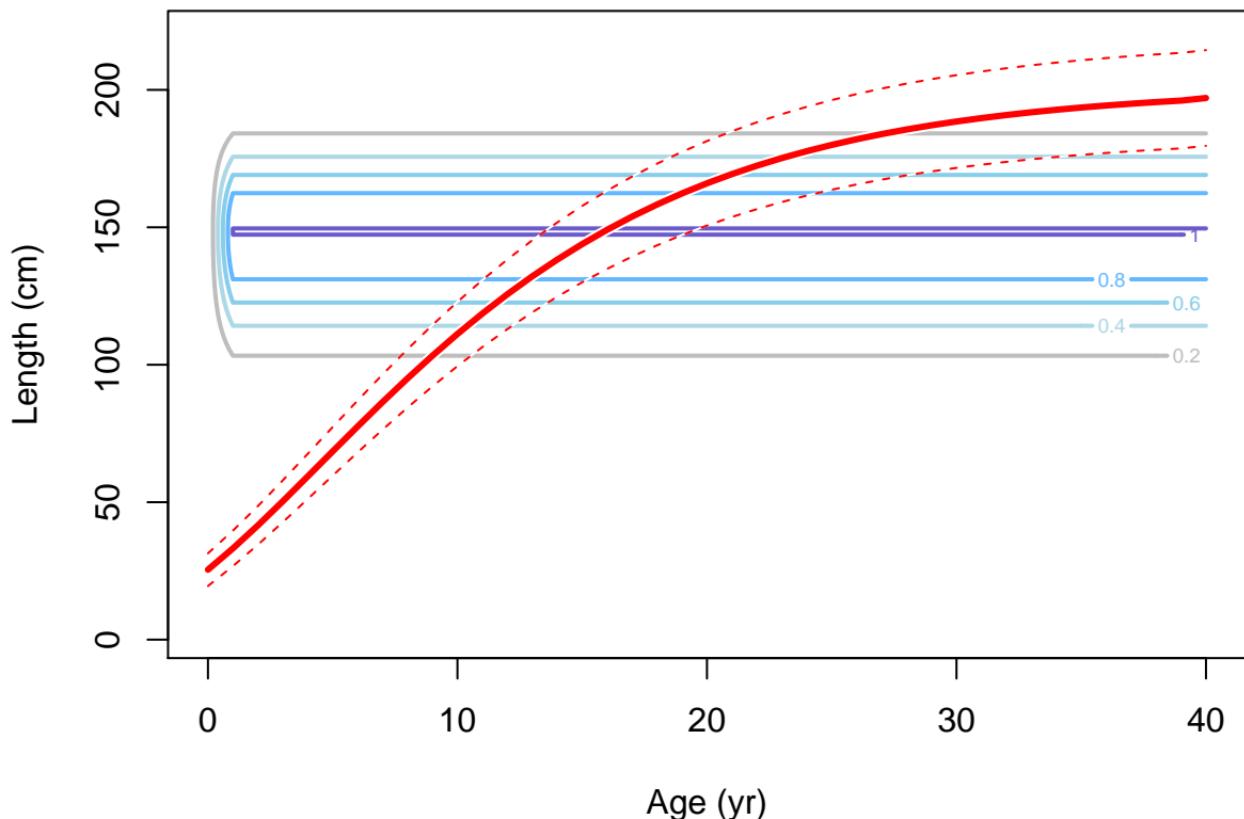
## Female ending year selectivity and growth for A4-LL-w



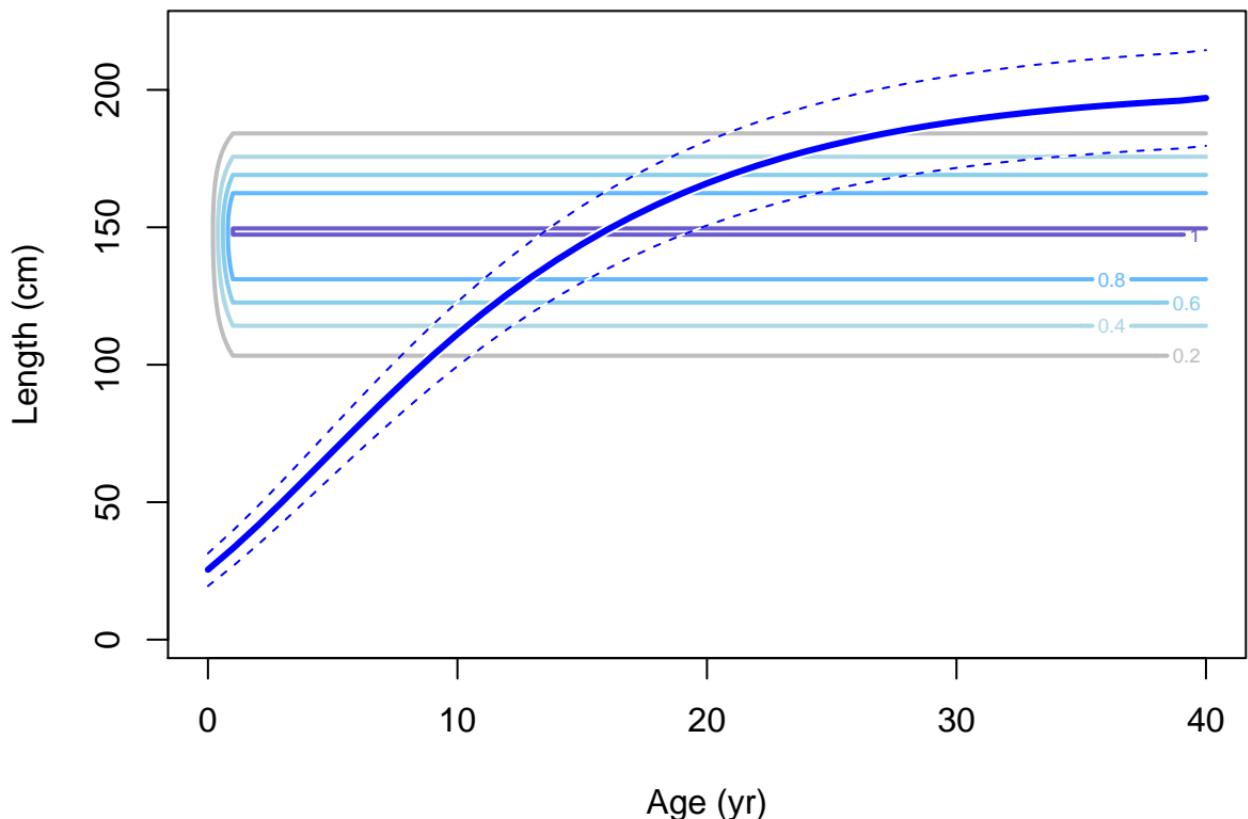
## Male ending year selectivity and growth for A4-LL-w



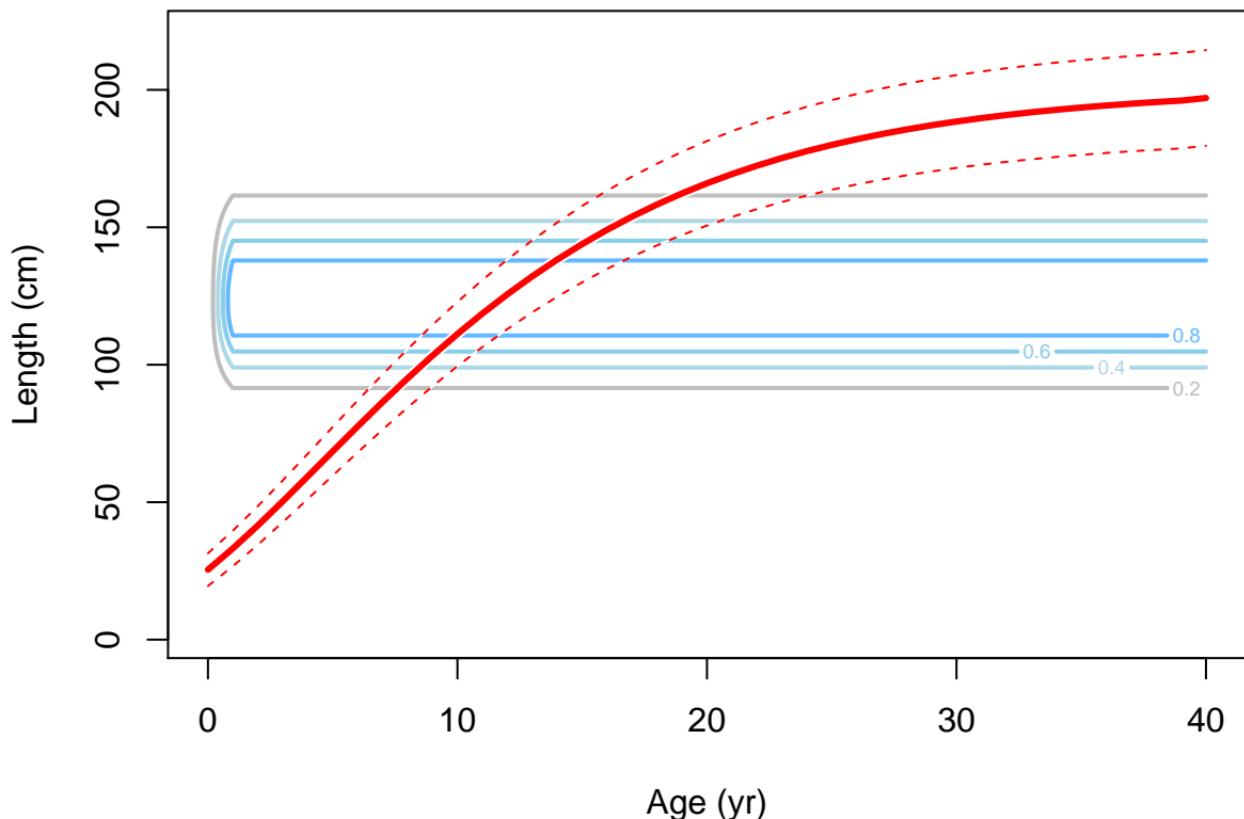
## Female ending year selectivity and growth for A5-LL-w



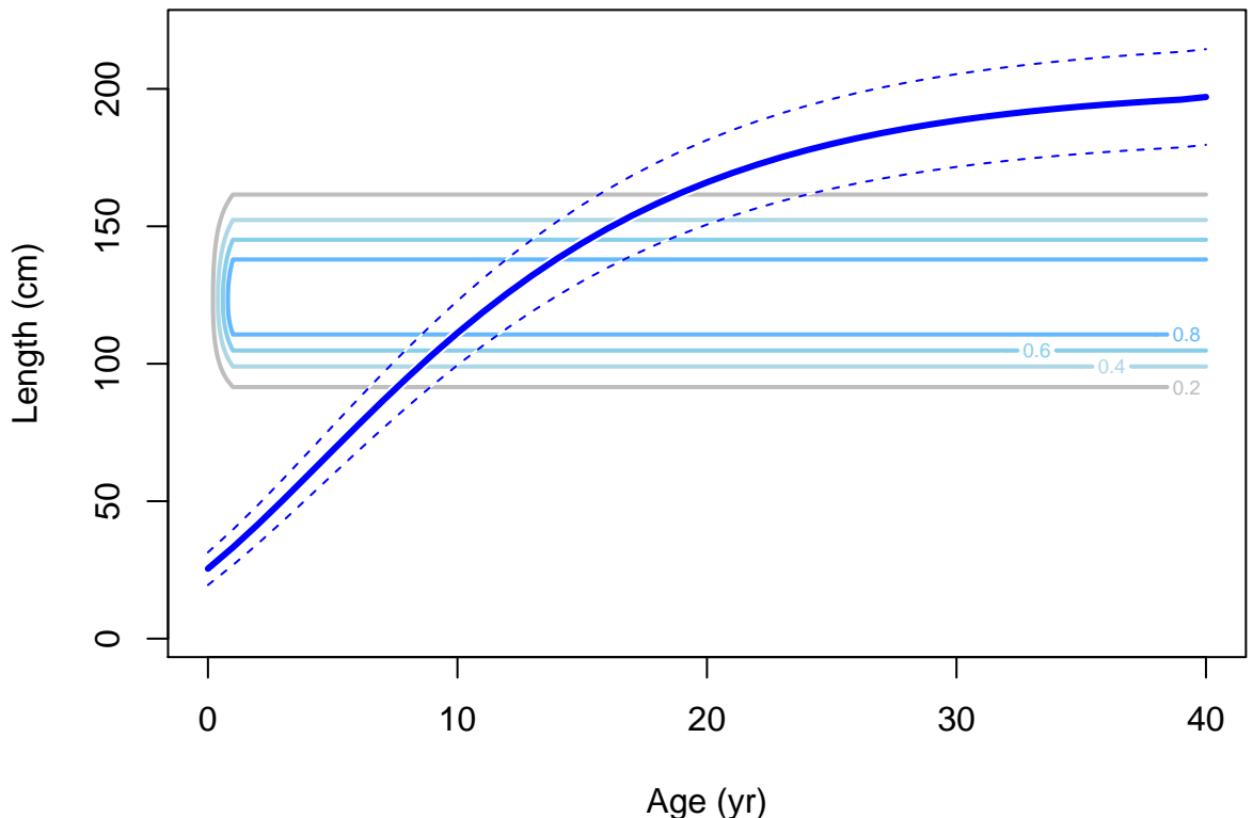
## Male ending year selectivity and growth for A5-LL-w



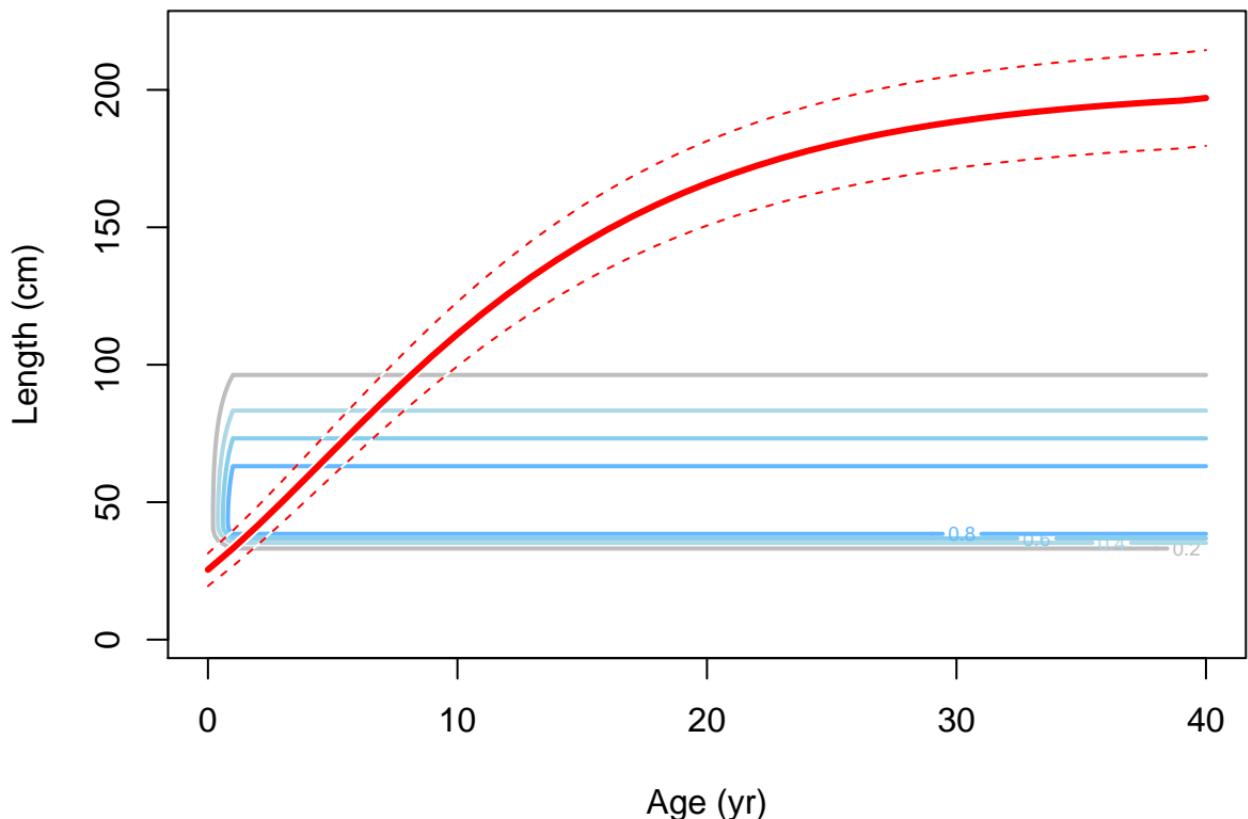
## Female ending year selectivity and growth for A6-LL-w



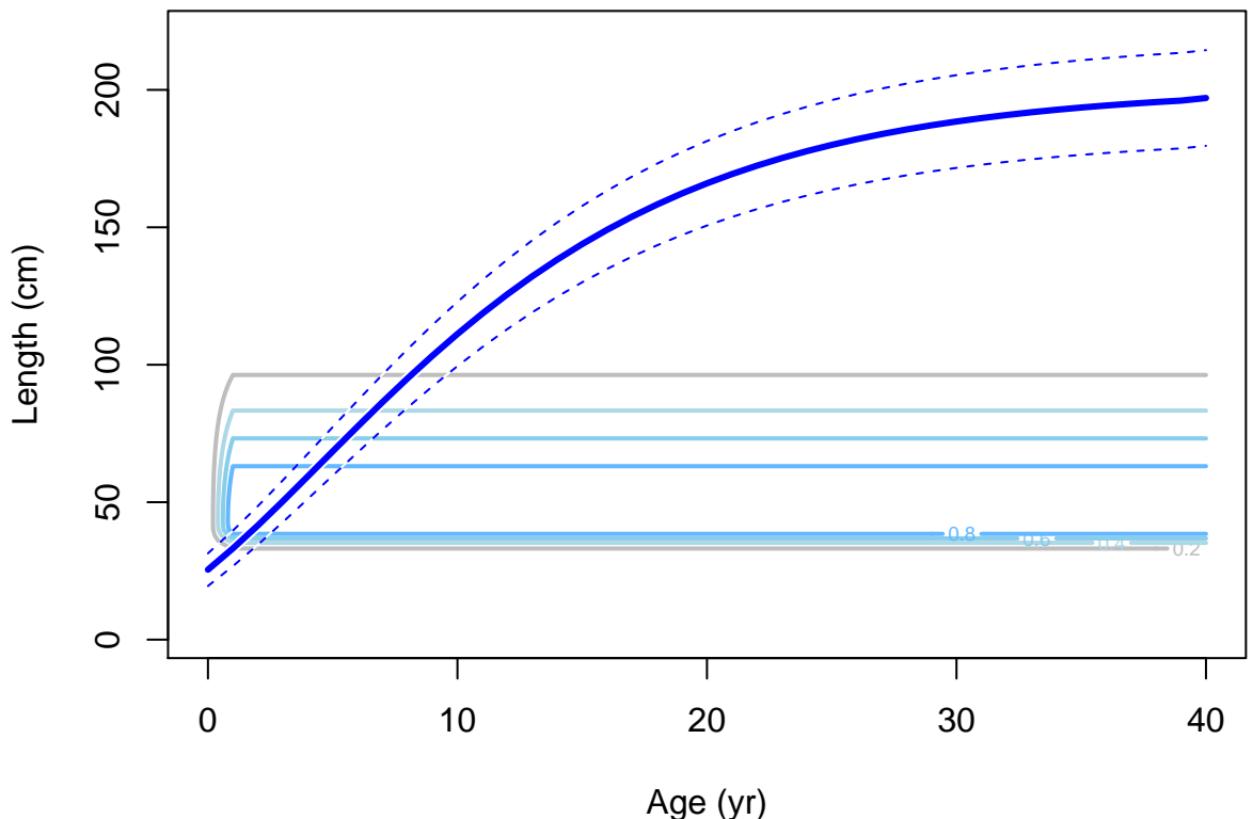
## Male ending year selectivity and growth for A6-LL-w



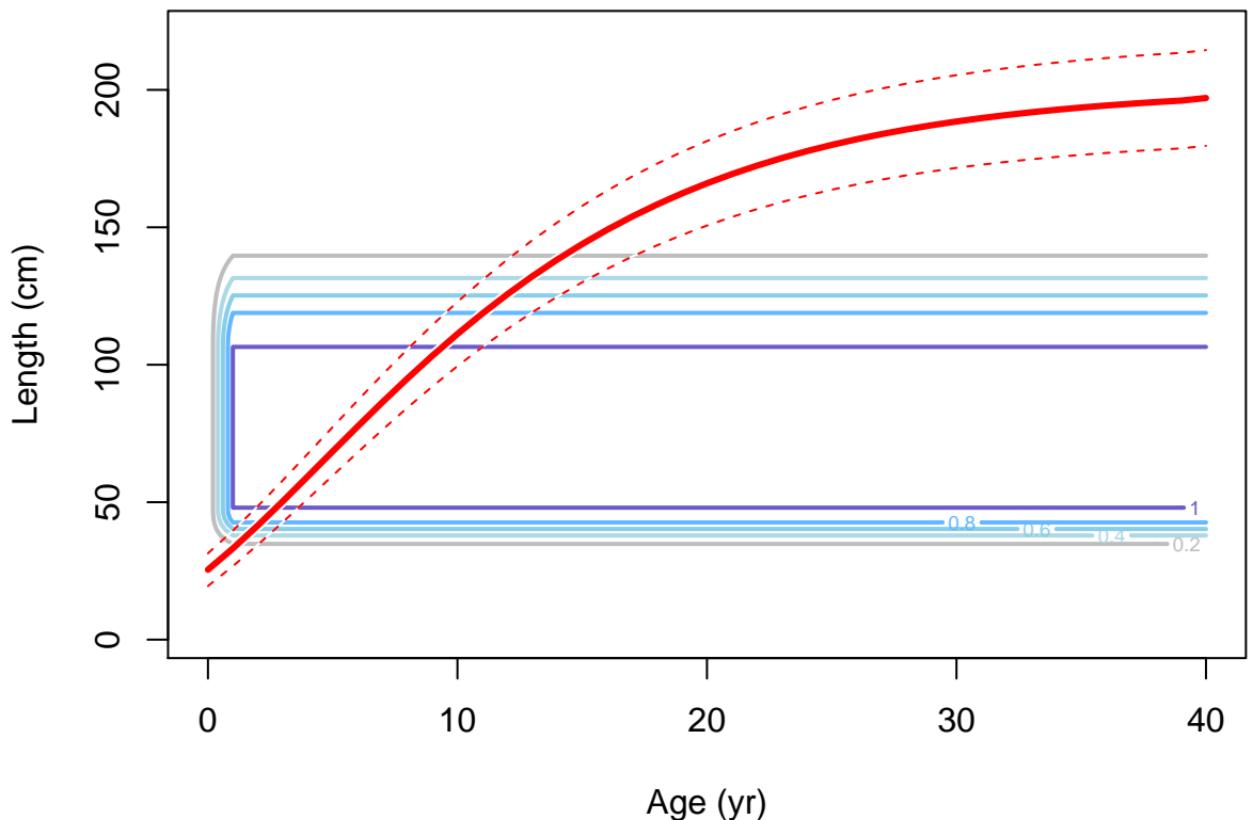
## Female ending year selectivity and growth for A2-OBJ



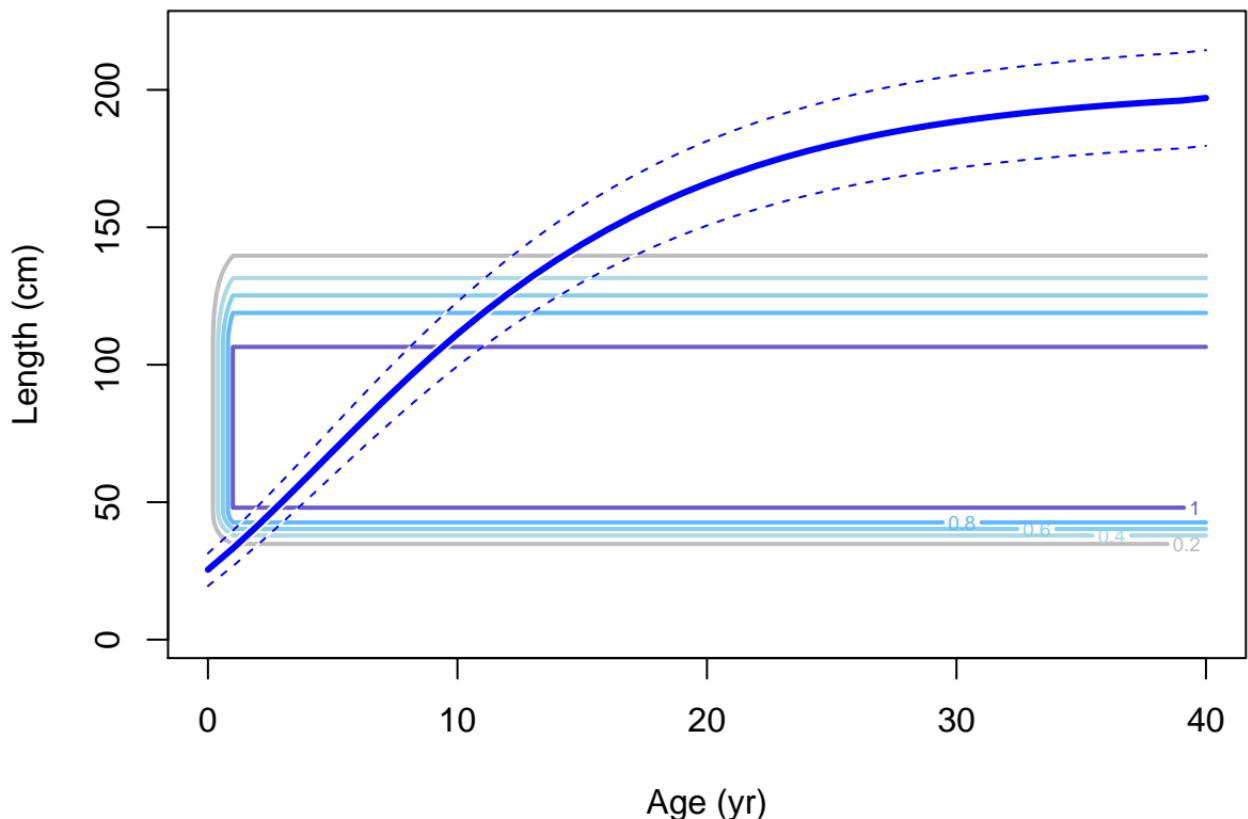
## Male ending year selectivity and growth for A2–OBJ



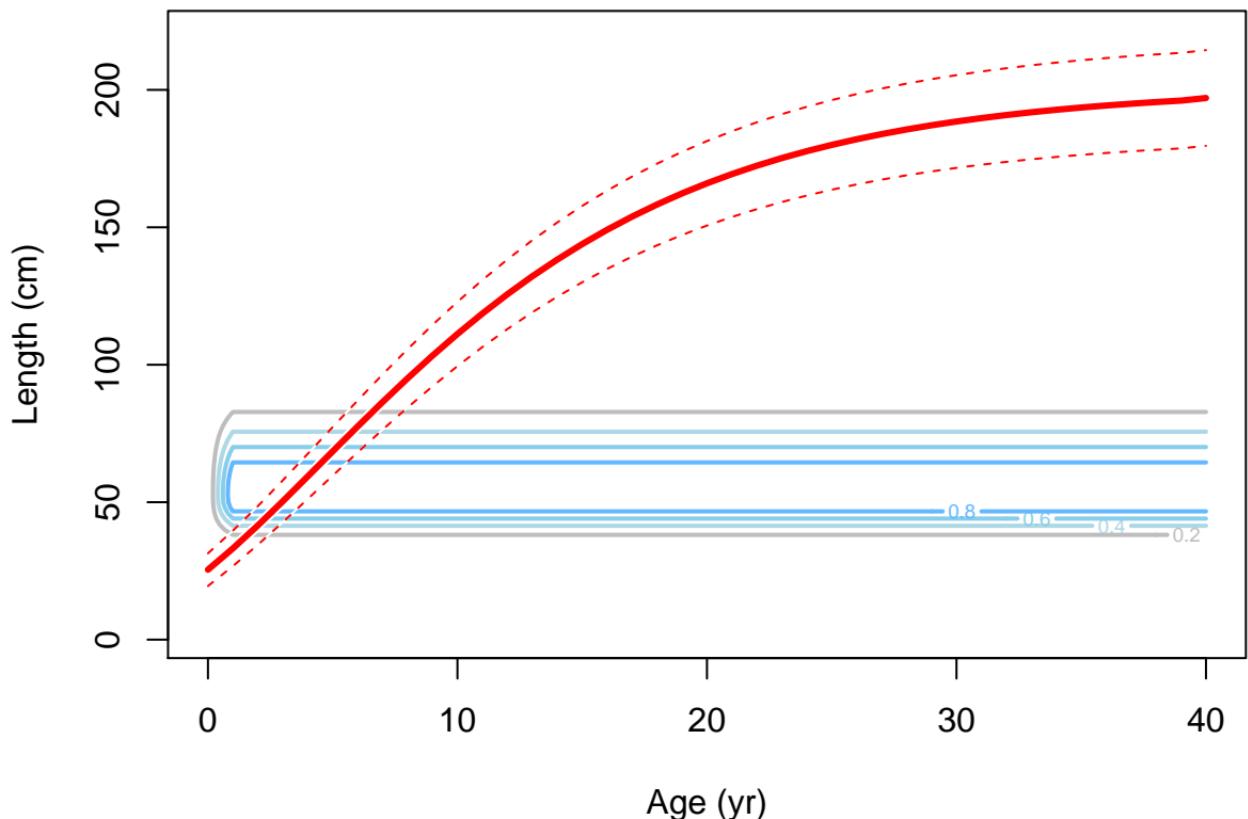
## Female ending year selectivity and growth for A3–OBJ



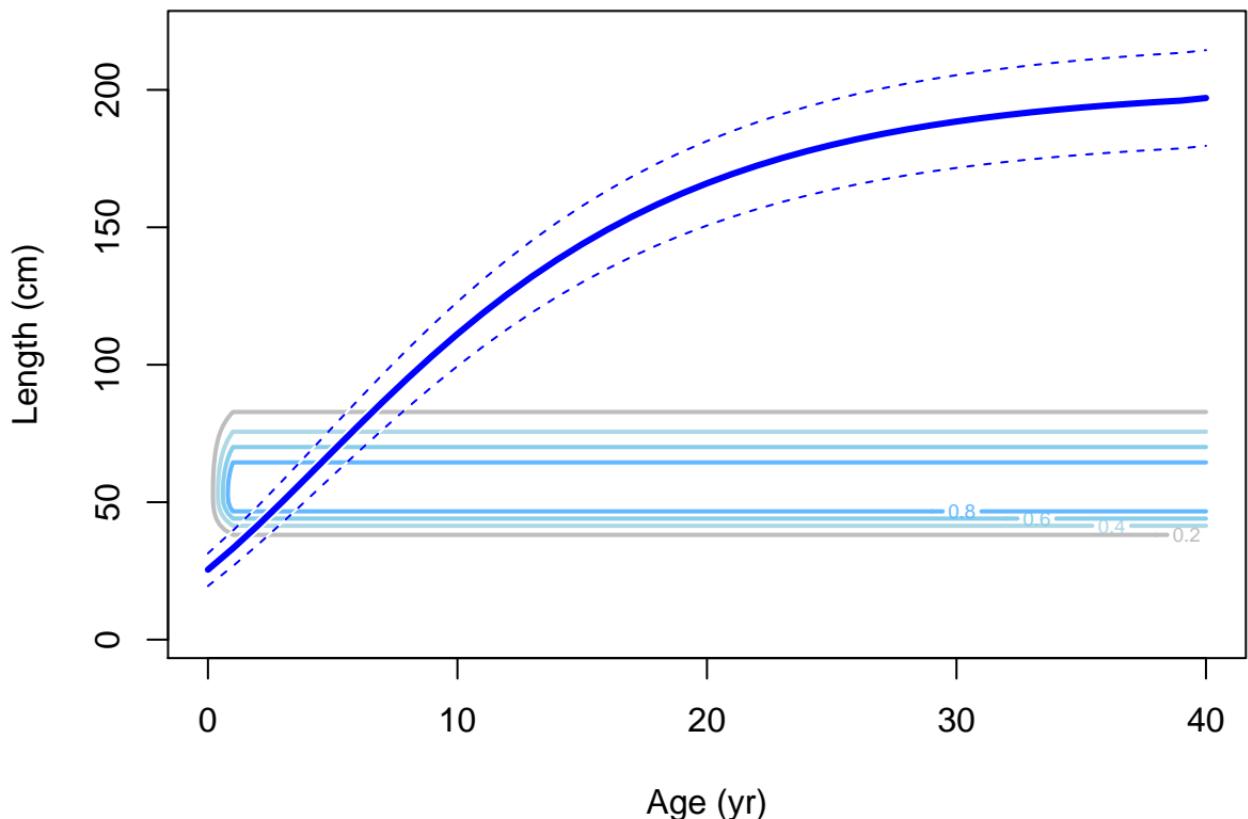
## Male ending year selectivity and growth for A3–OBJ



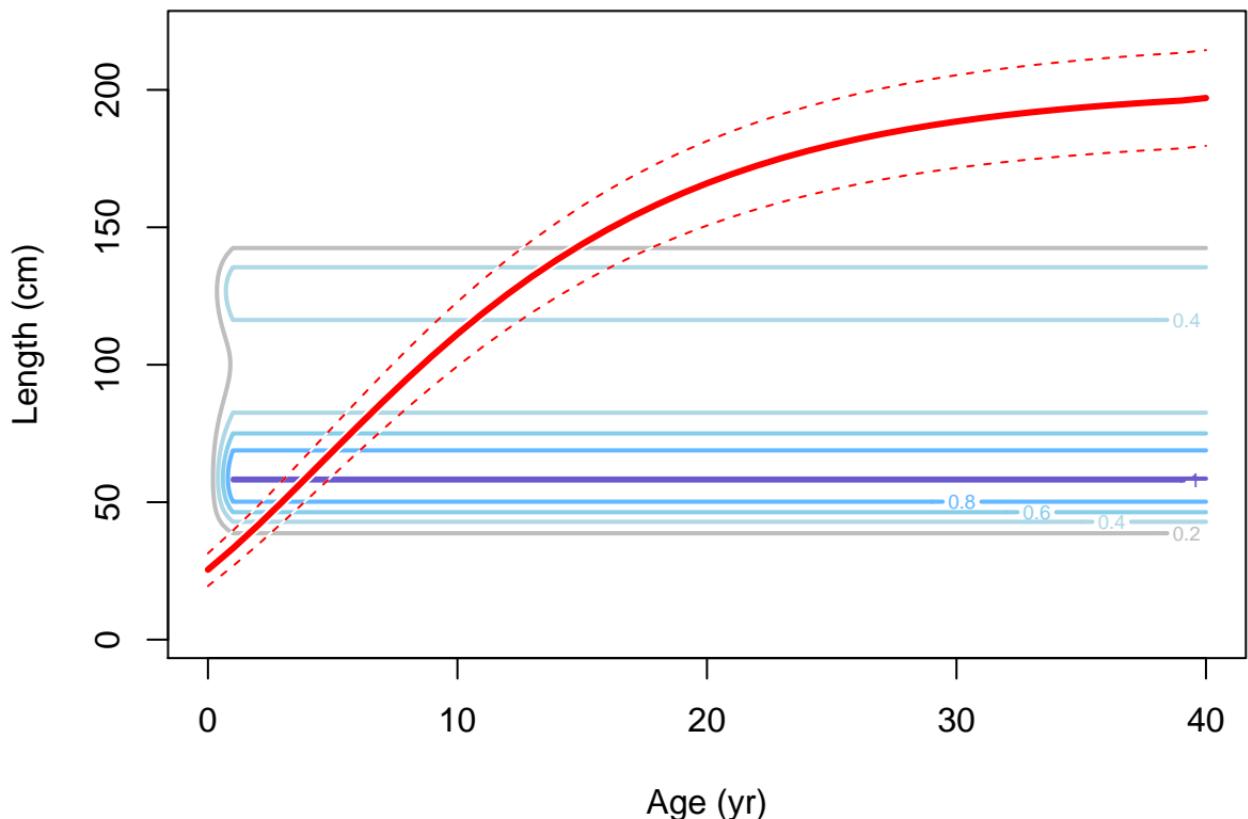
## Female ending year selectivity and growth for A4–OBJ



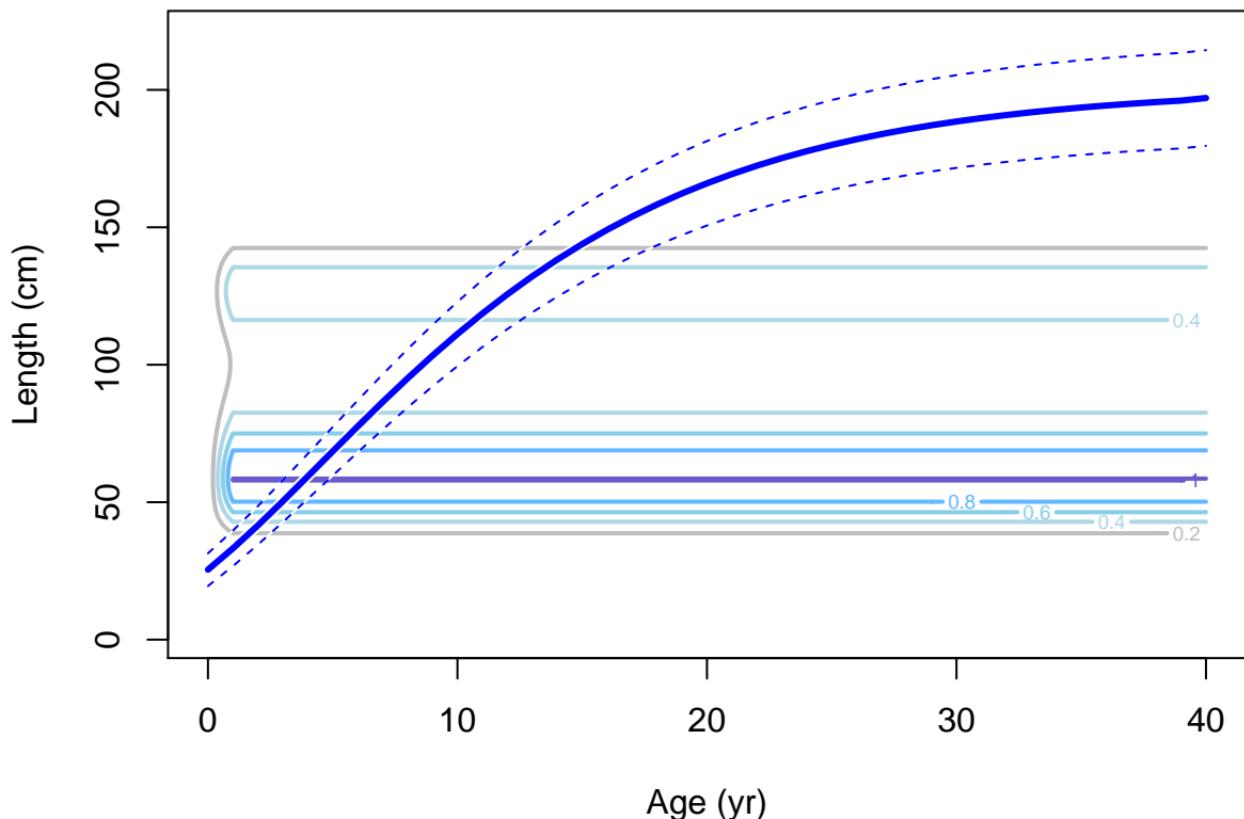
## Male ending year selectivity and growth for A4–OBJ



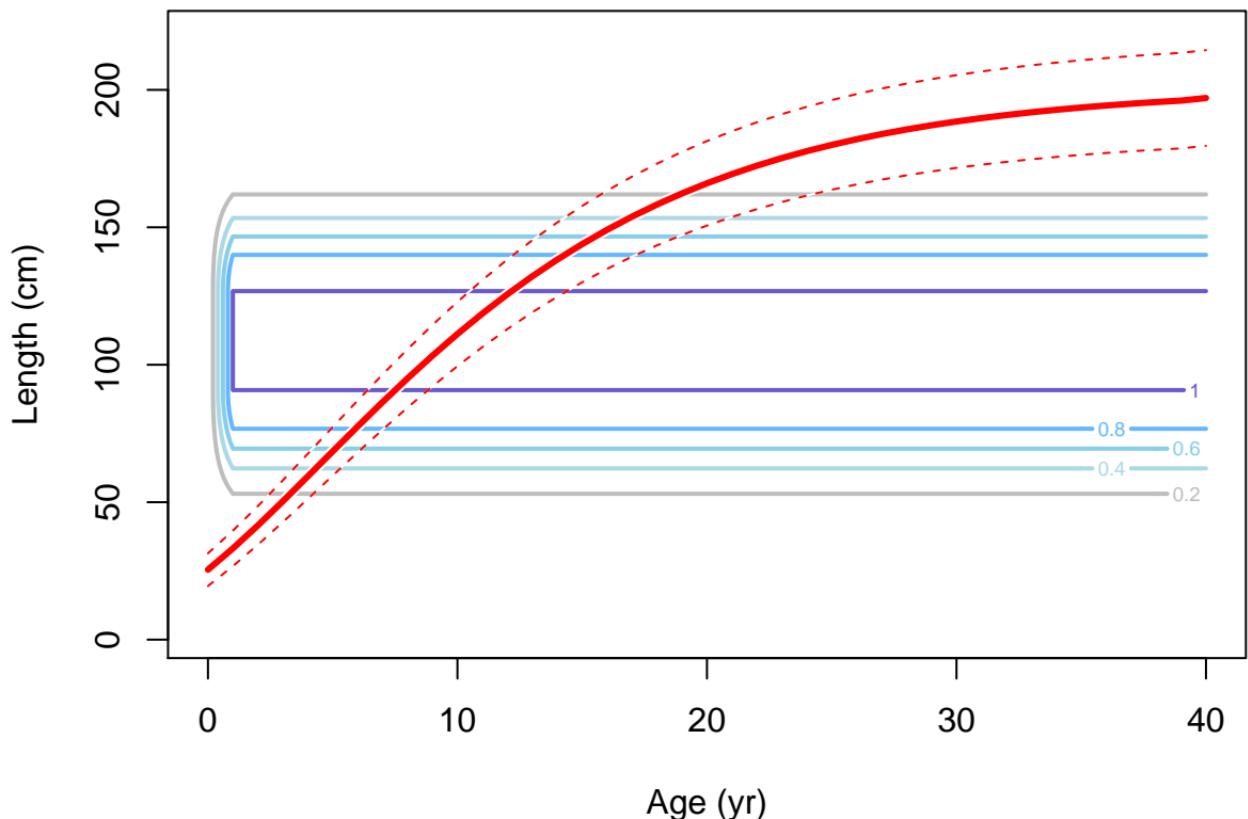
## Female ending year selectivity and growth for A5–OBJ



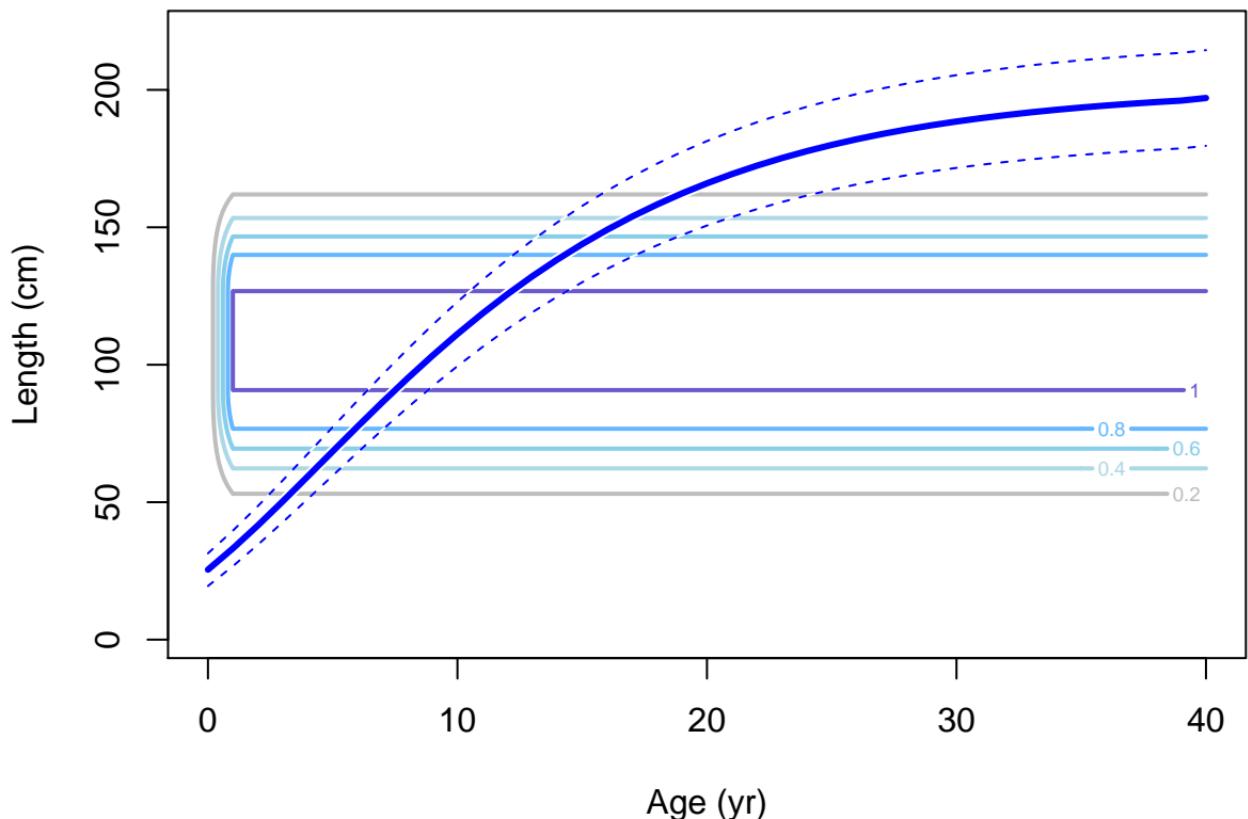
## Male ending year selectivity and growth for A5–OBJ



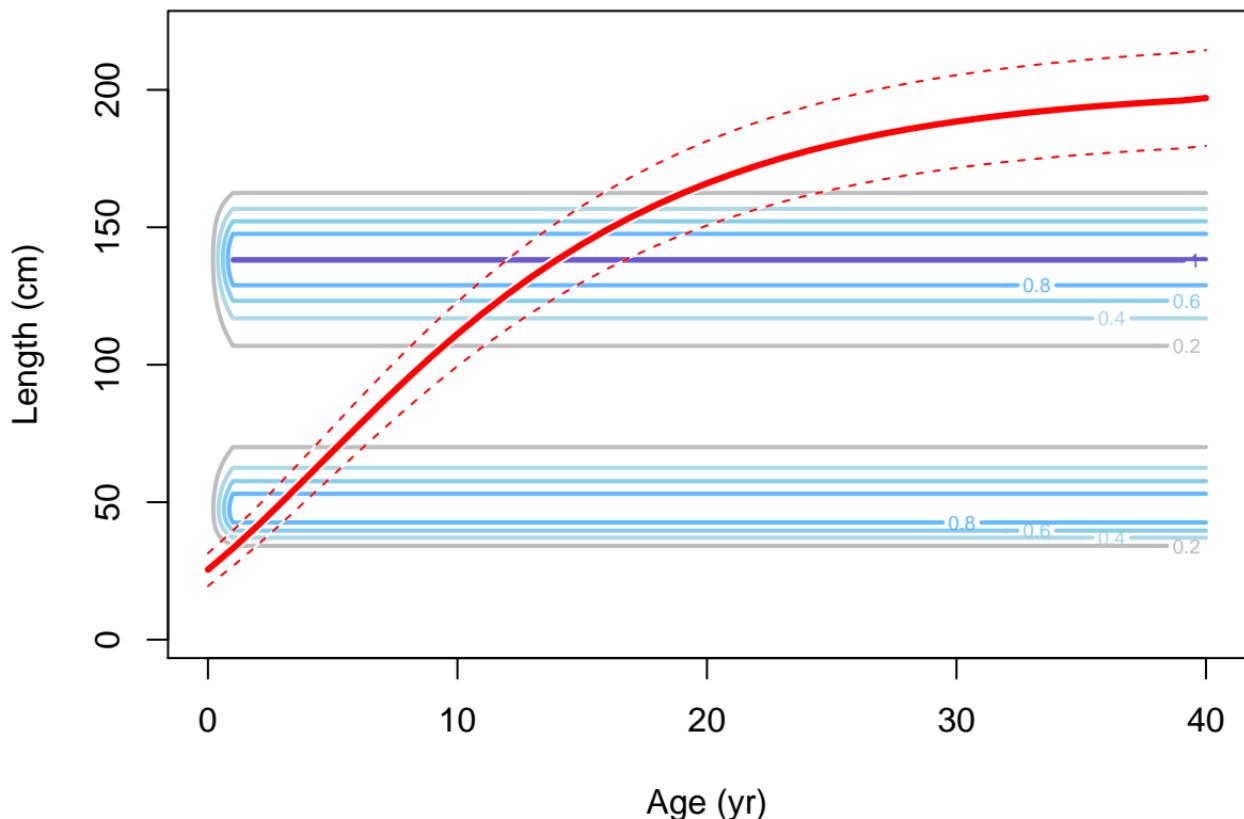
## Female ending year selectivity and growth for A6–OBJ



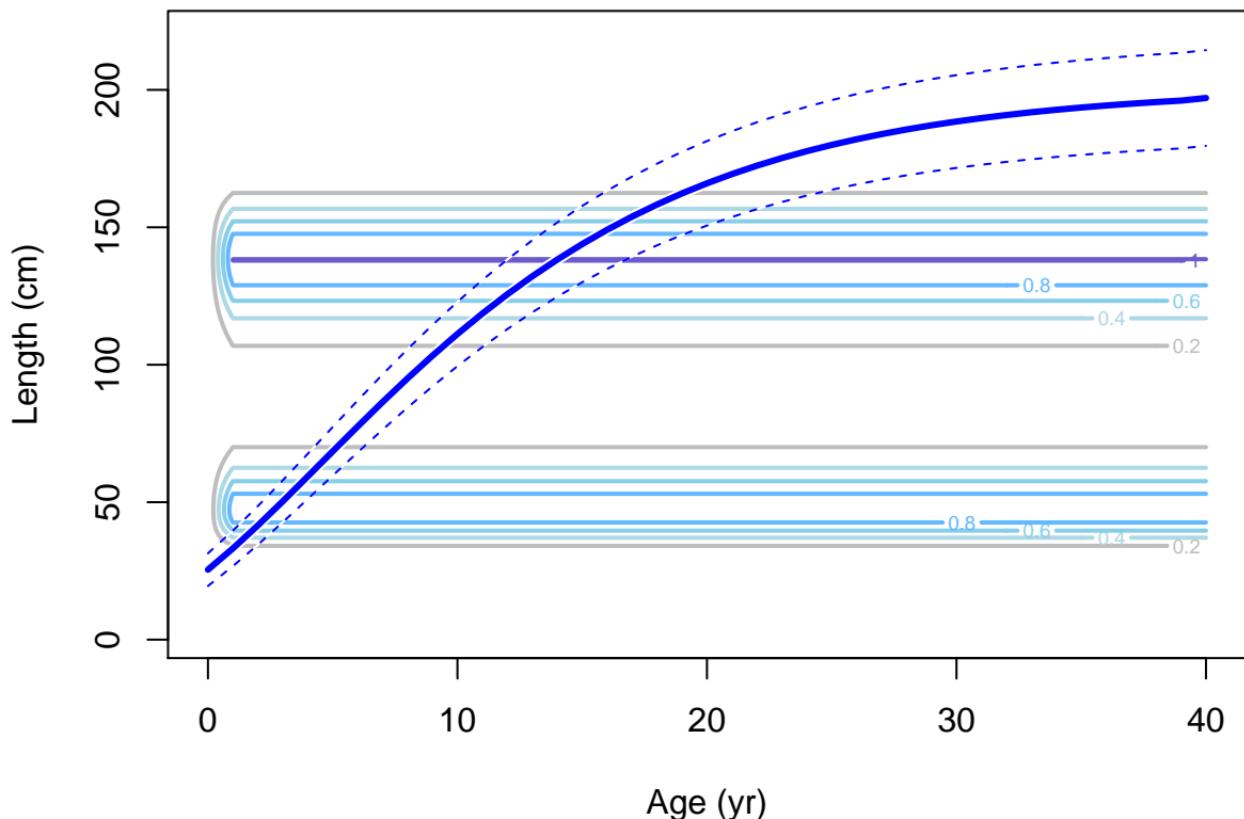
## Male ending year selectivity and growth for A6–OBJ



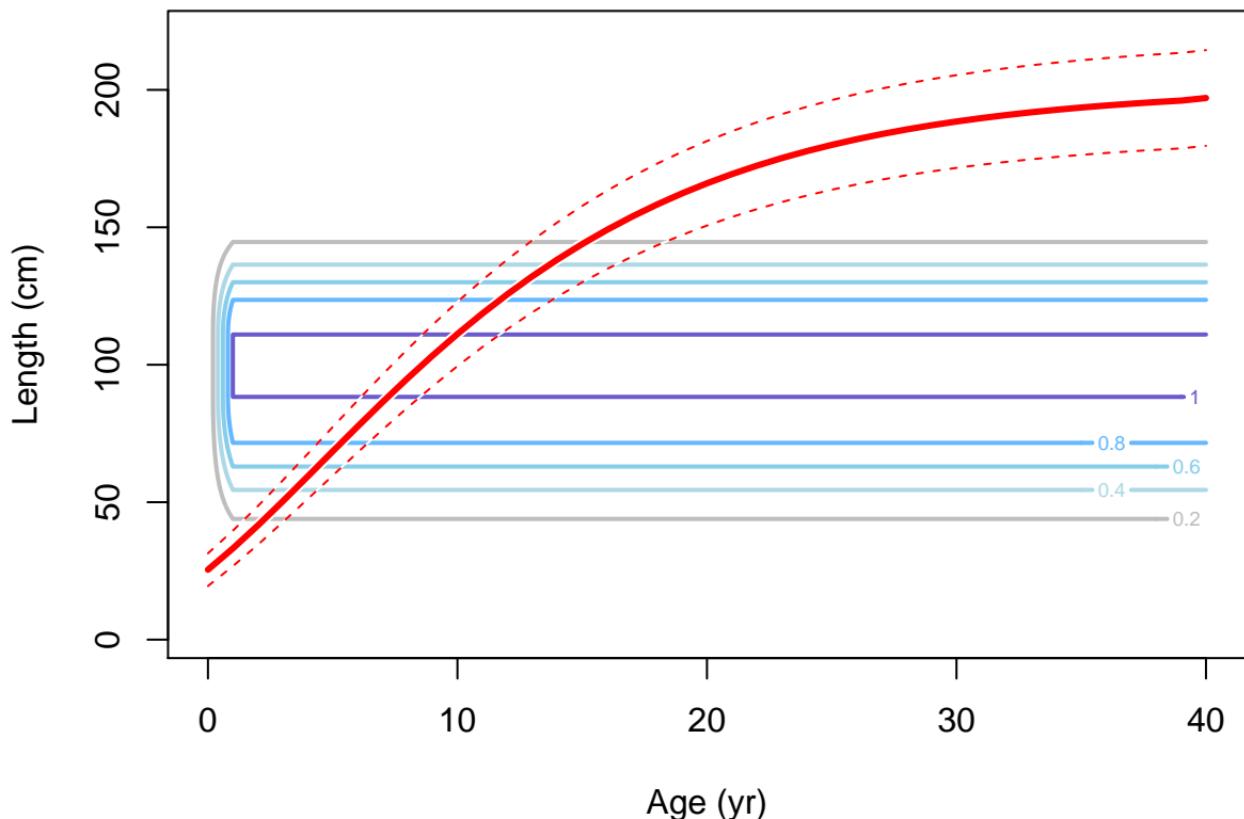
## Female ending year selectivity and growth for A2-NOADEL



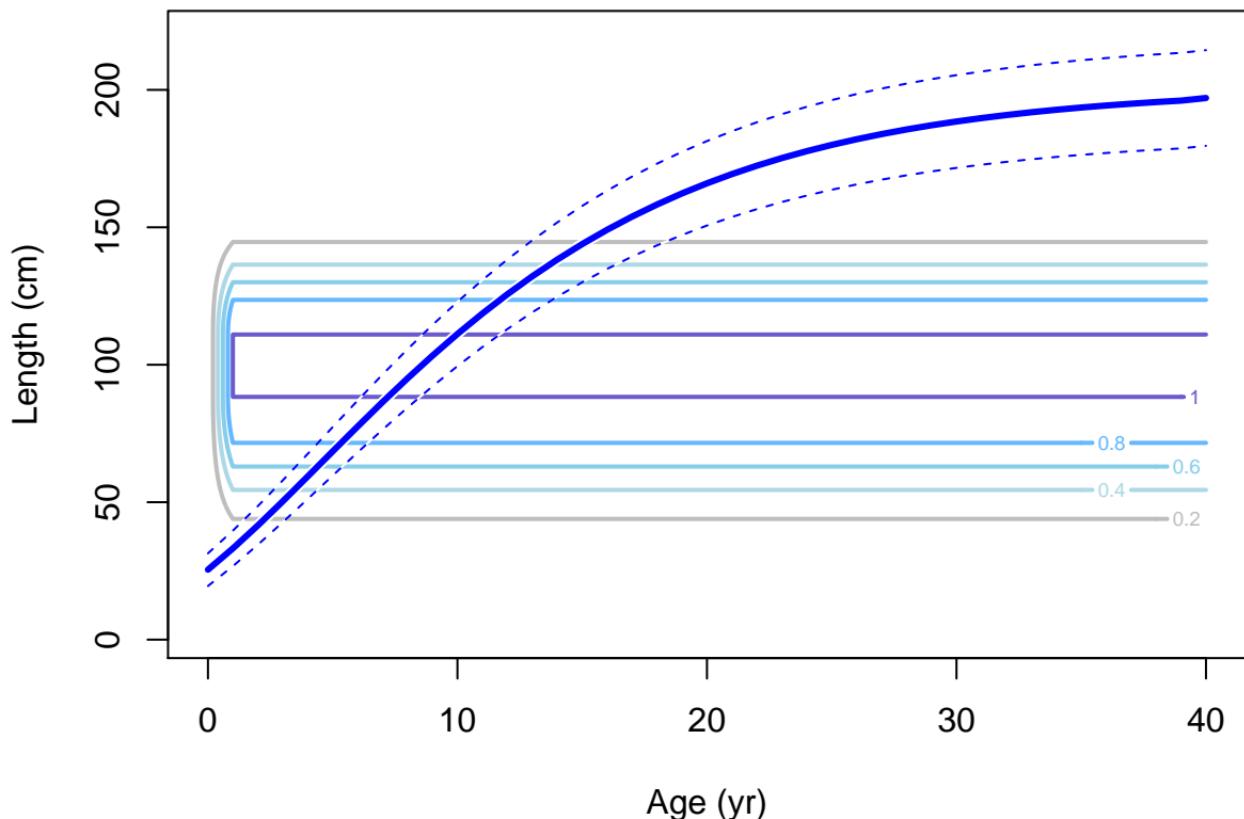
## Male ending year selectivity and growth for A2-NOADEL



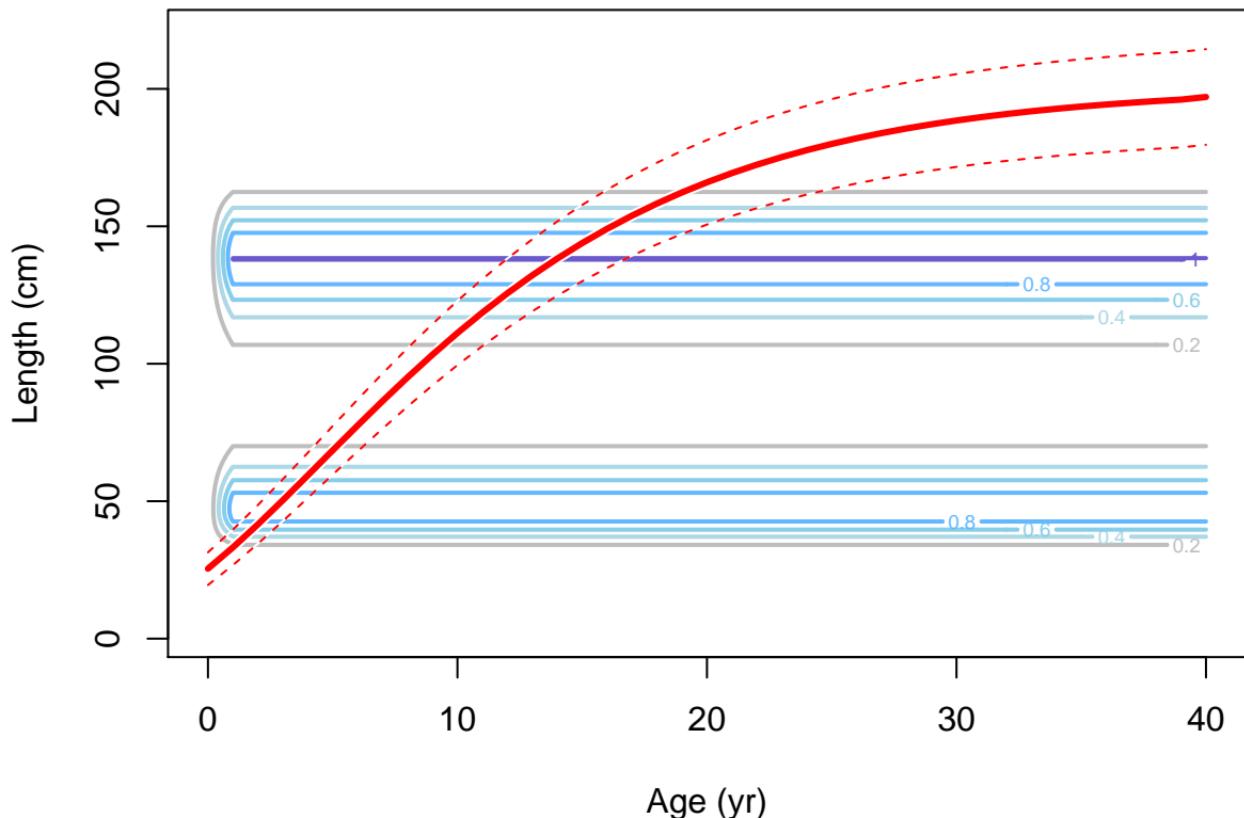
## Female ending year selectivity and growth for A3-NOADEL



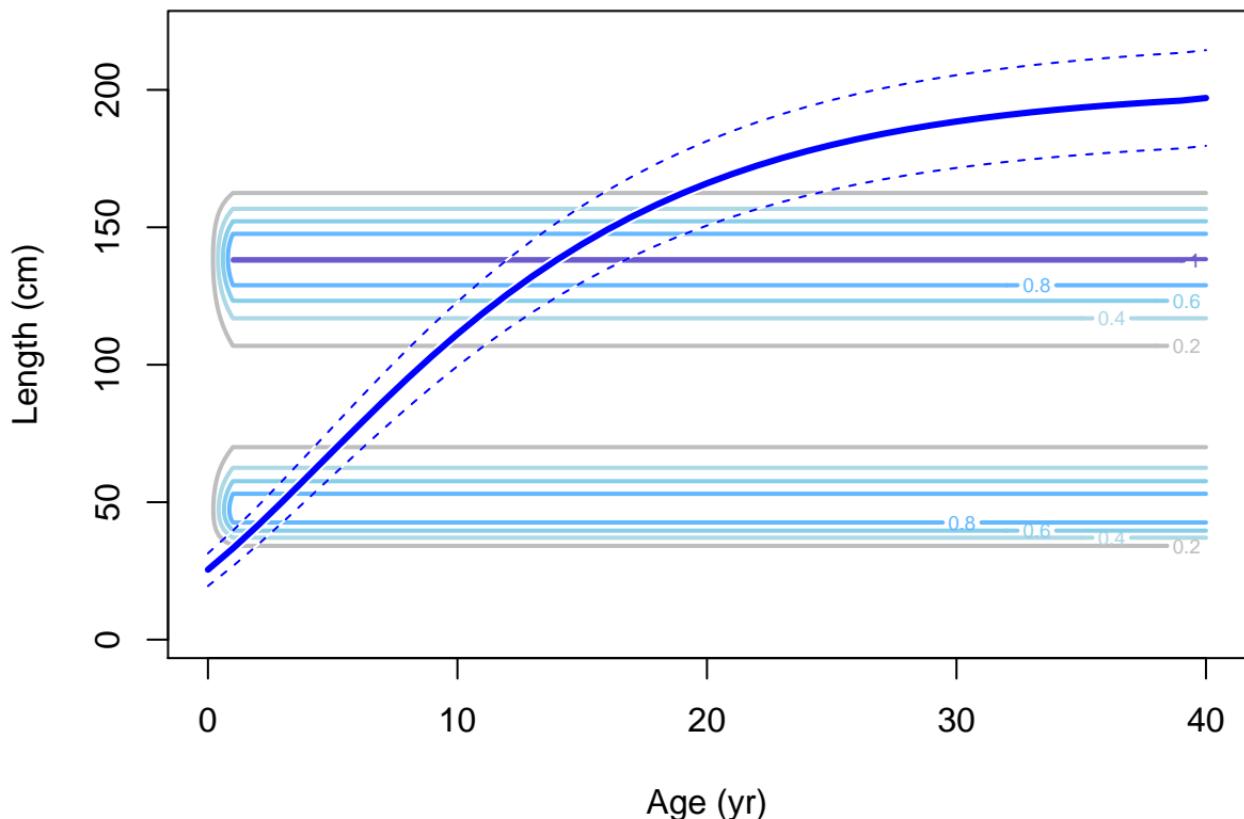
## Male ending year selectivity and growth for A3–NOADEL



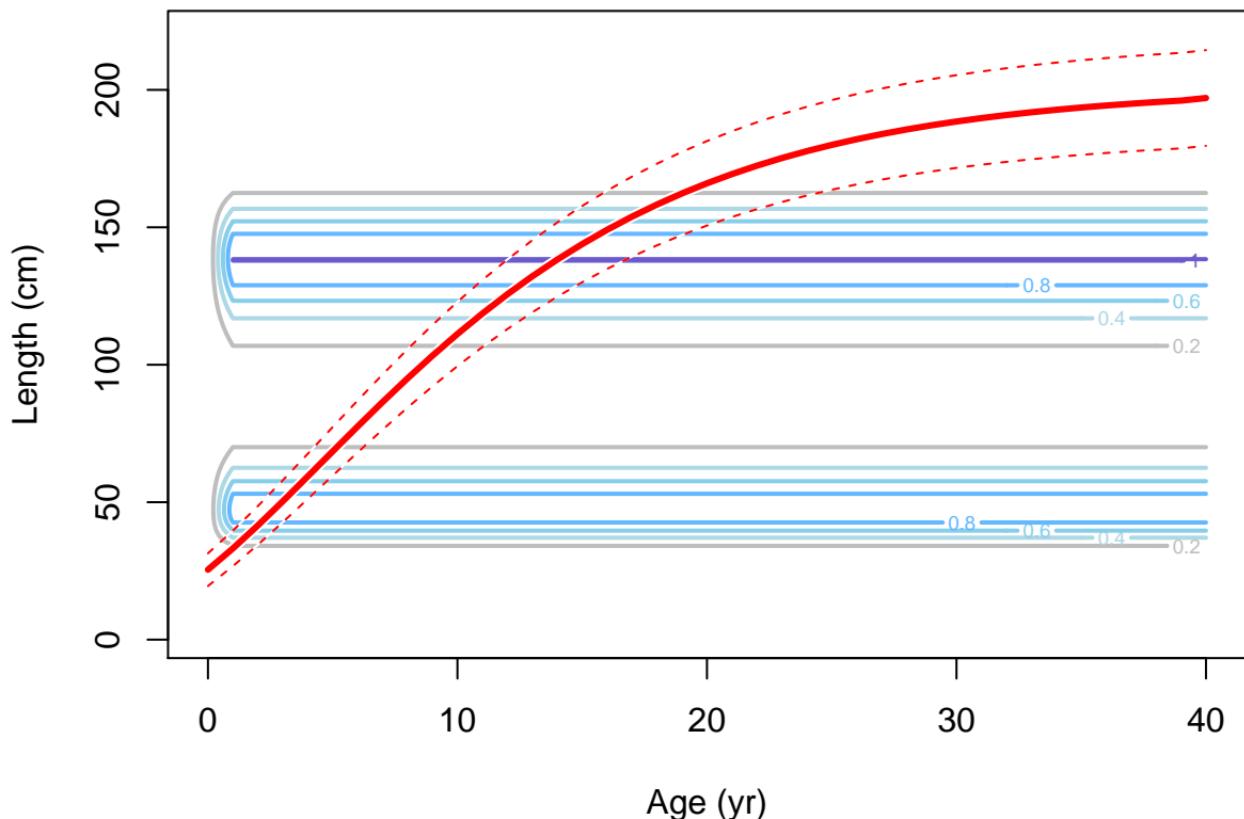
## Female ending year selectivity and growth for A4-NOADEL



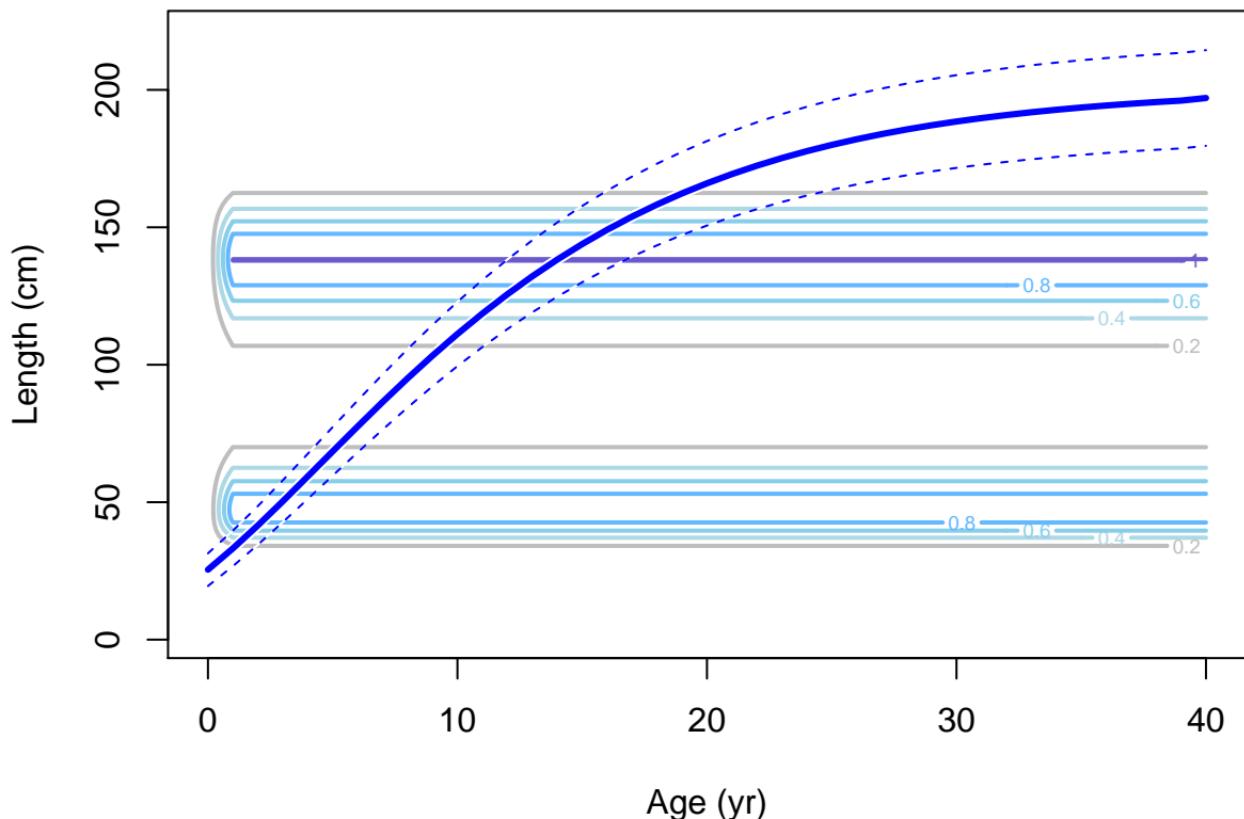
## Male ending year selectivity and growth for A4–NOADEL



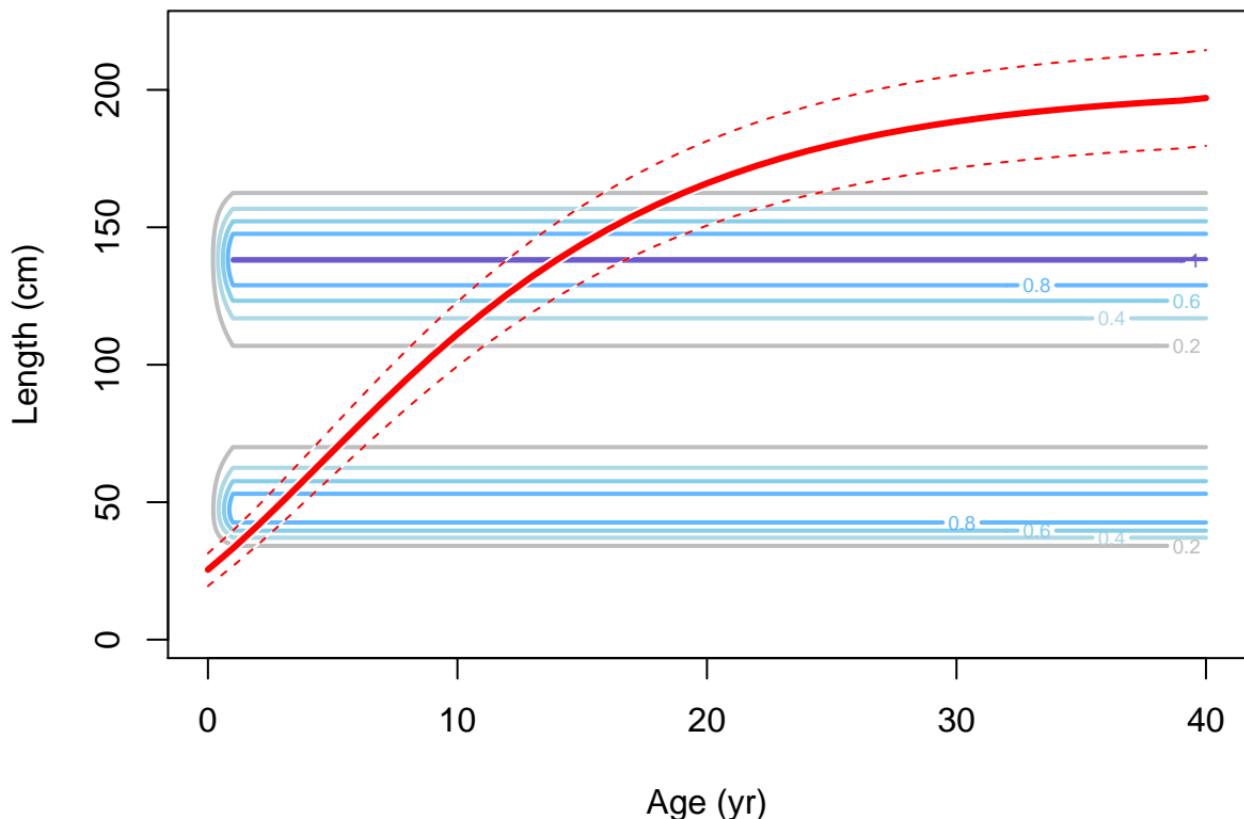
## Female ending year selectivity and growth for A5-NOADEL



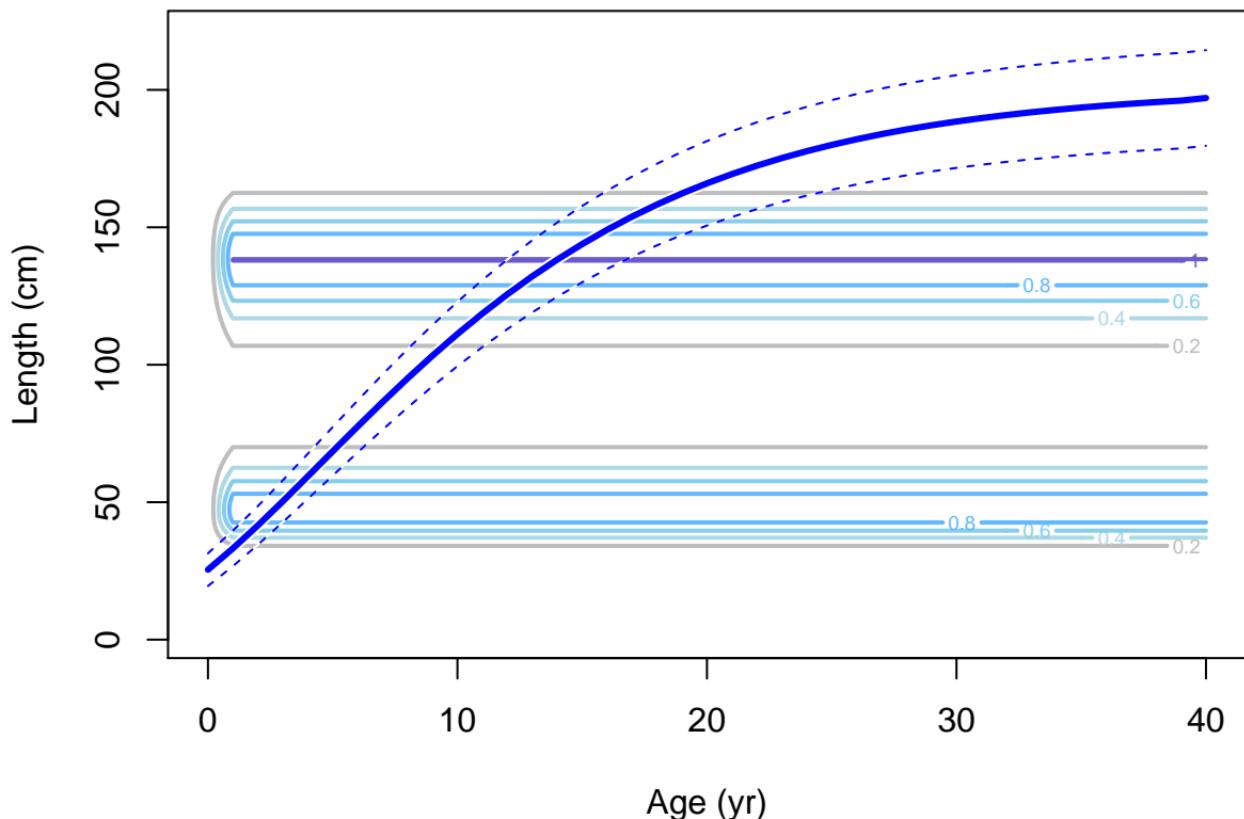
## Male ending year selectivity and growth for A5–NOADEL



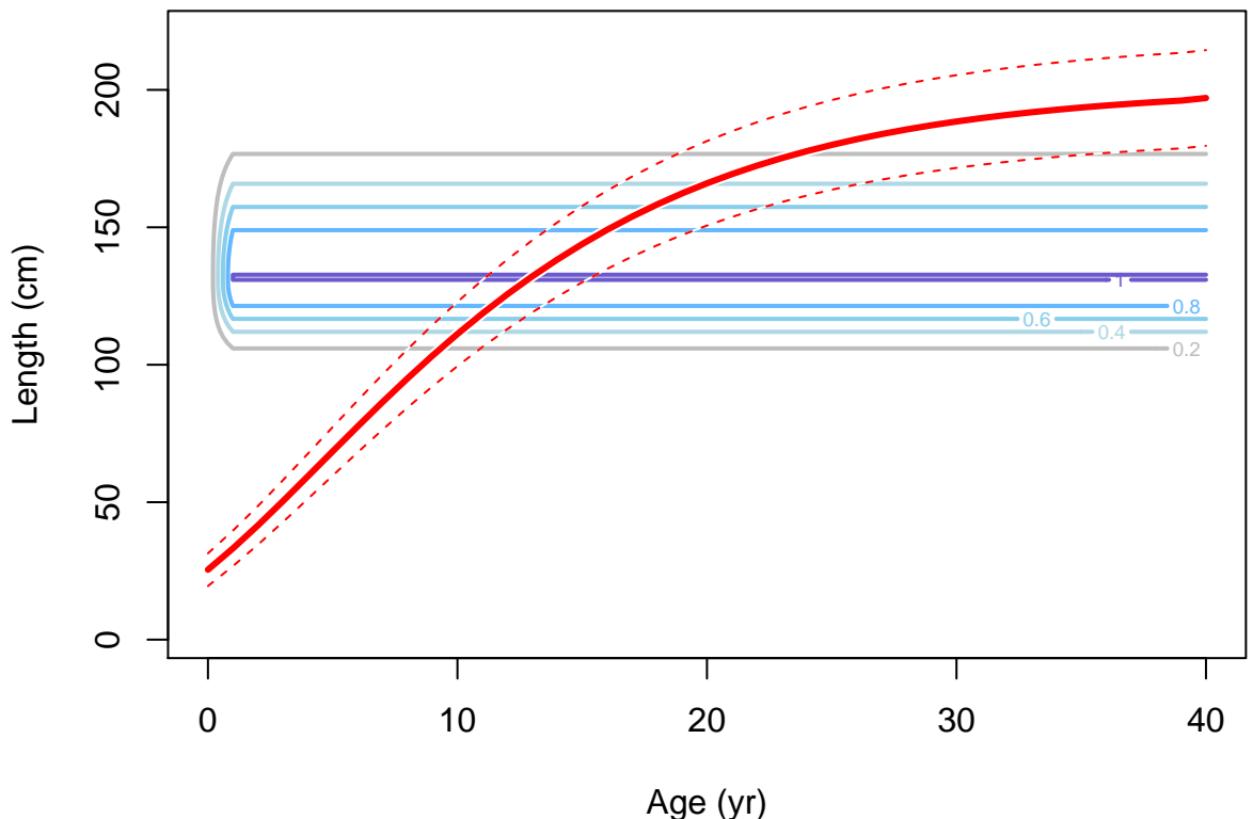
## Female ending year selectivity and growth for A6-NOADEL



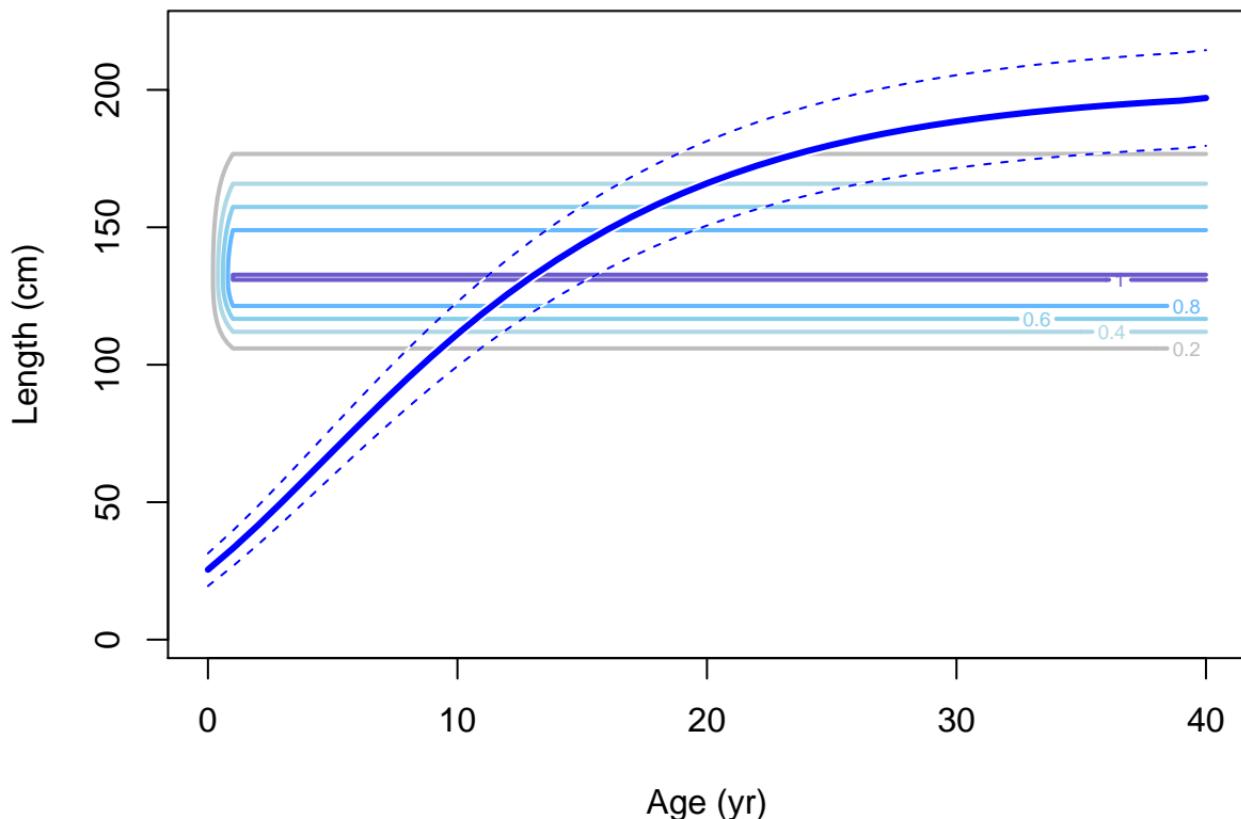
## Male ending year selectivity and growth for A6–NOADEL



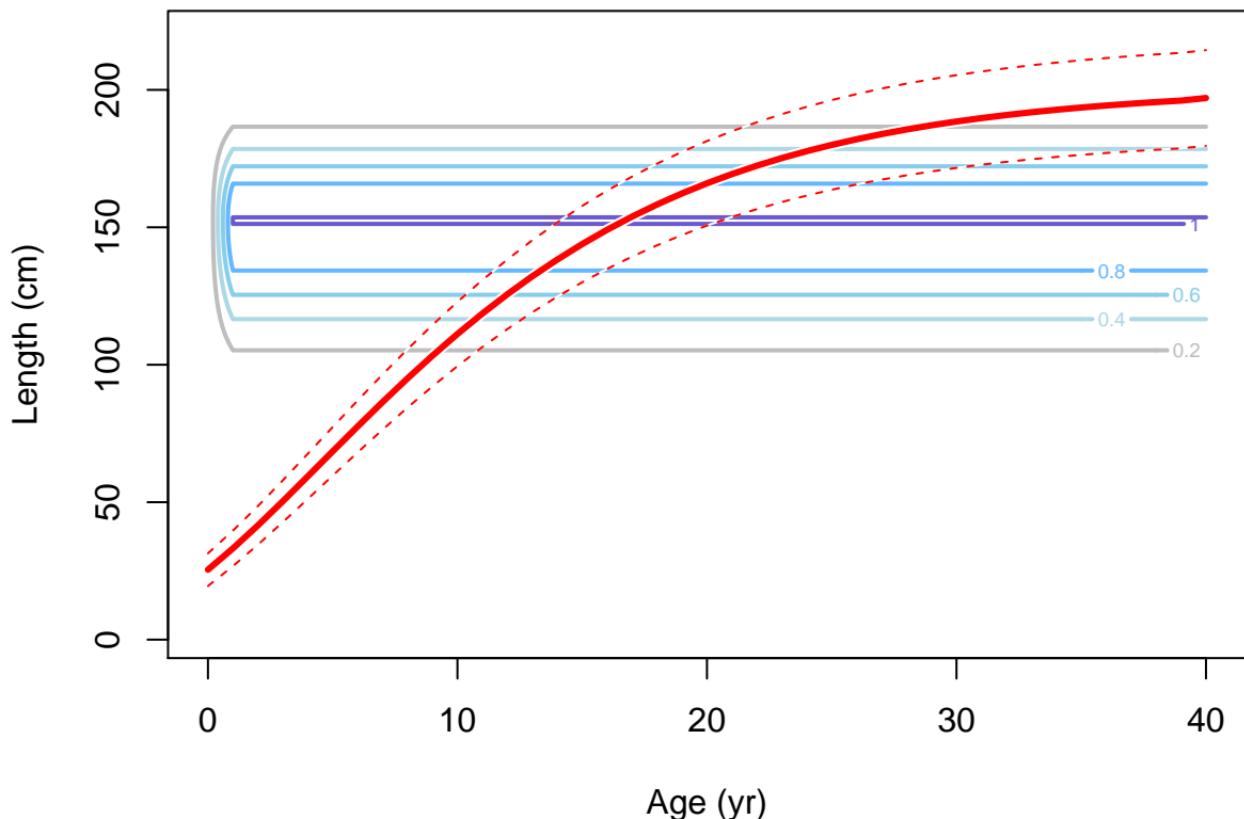
## Female ending year selectivity and growth for EPO-LL-survey-early



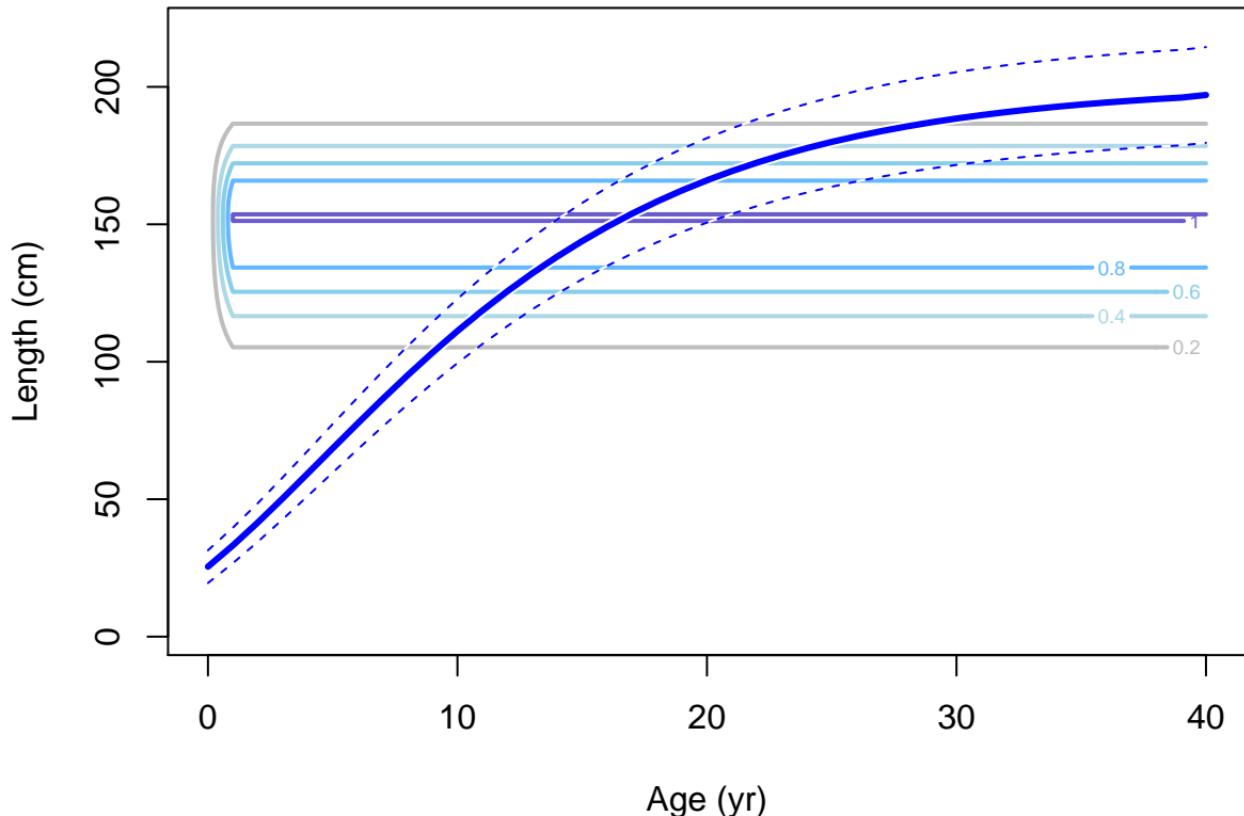
## Male ending year selectivity and growth for EPO-LL-survey-early



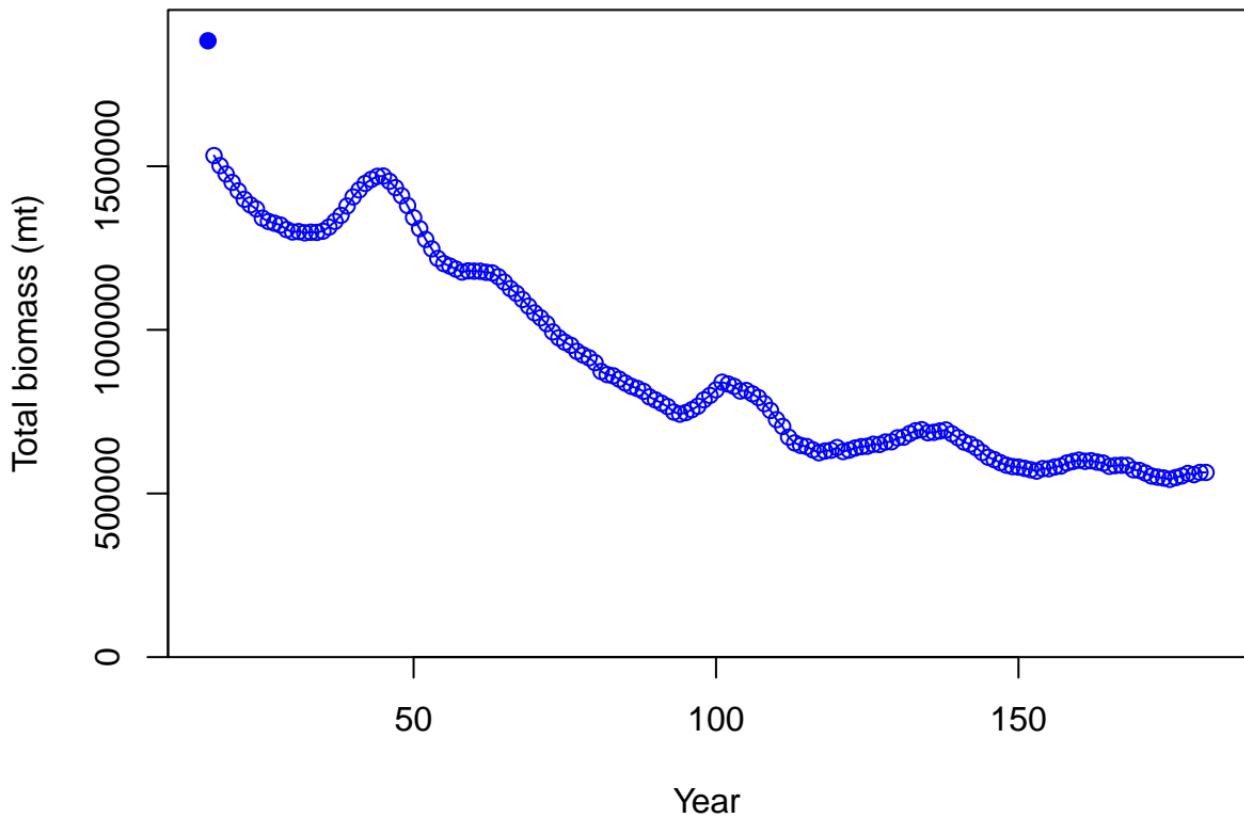
## Female ending year selectivity and growth for EPO–LL–survey–late



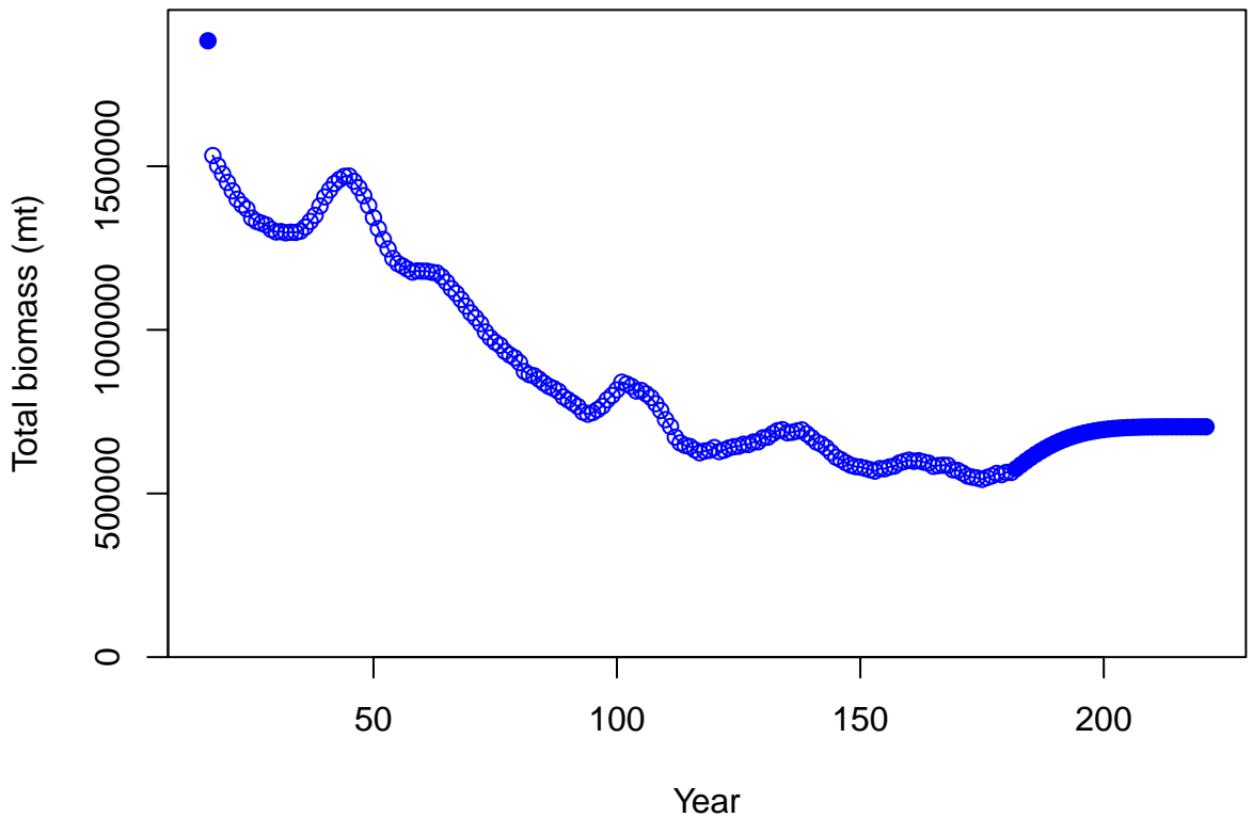
## Male ending year selectivity and growth for EPO-LL-survey-late



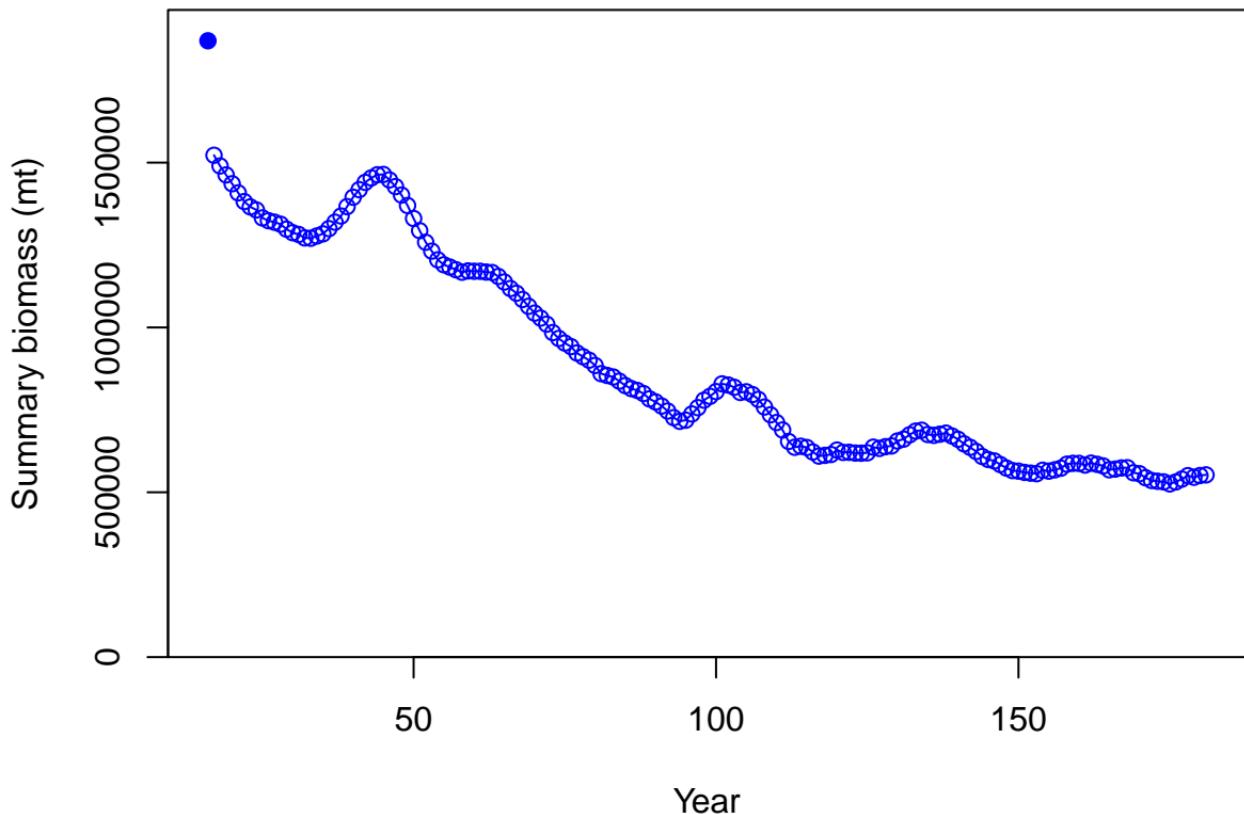
## Total biomass (mt)



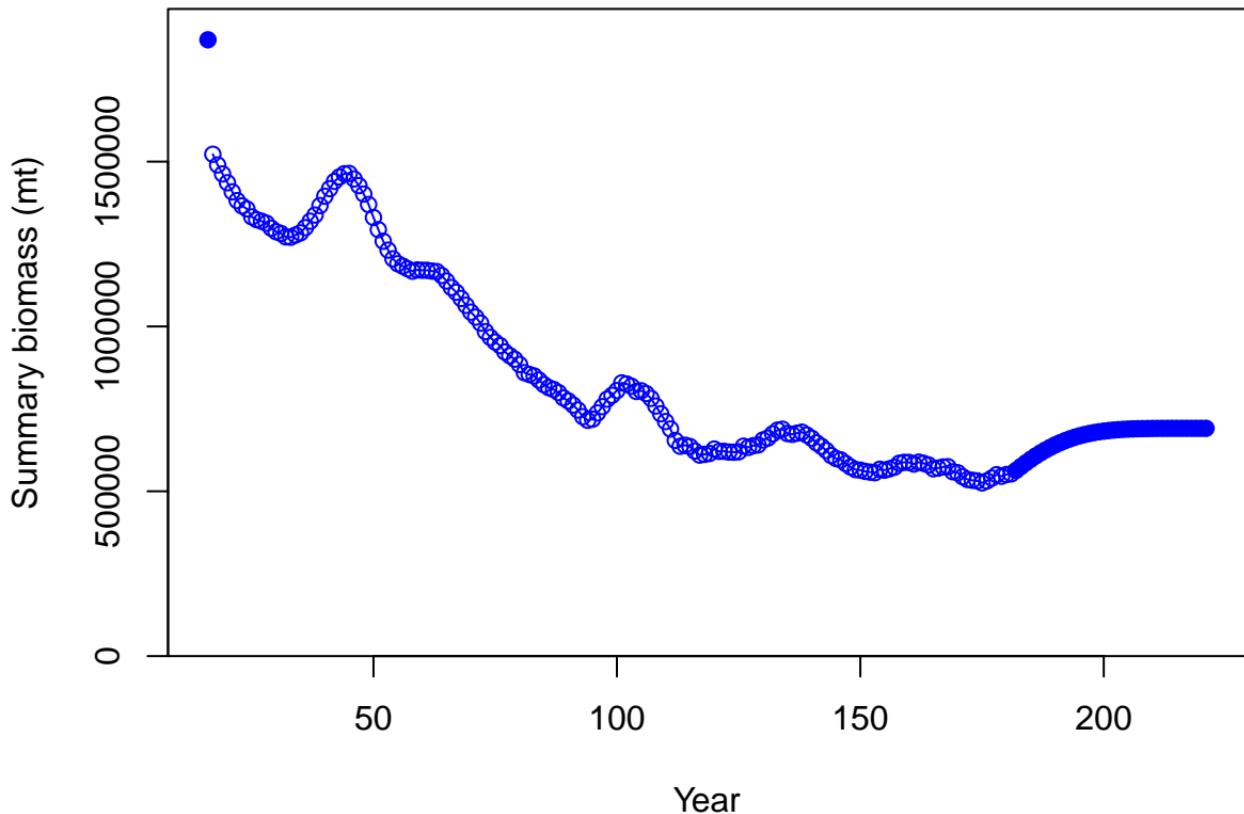
## Total biomass (mt) with forecast



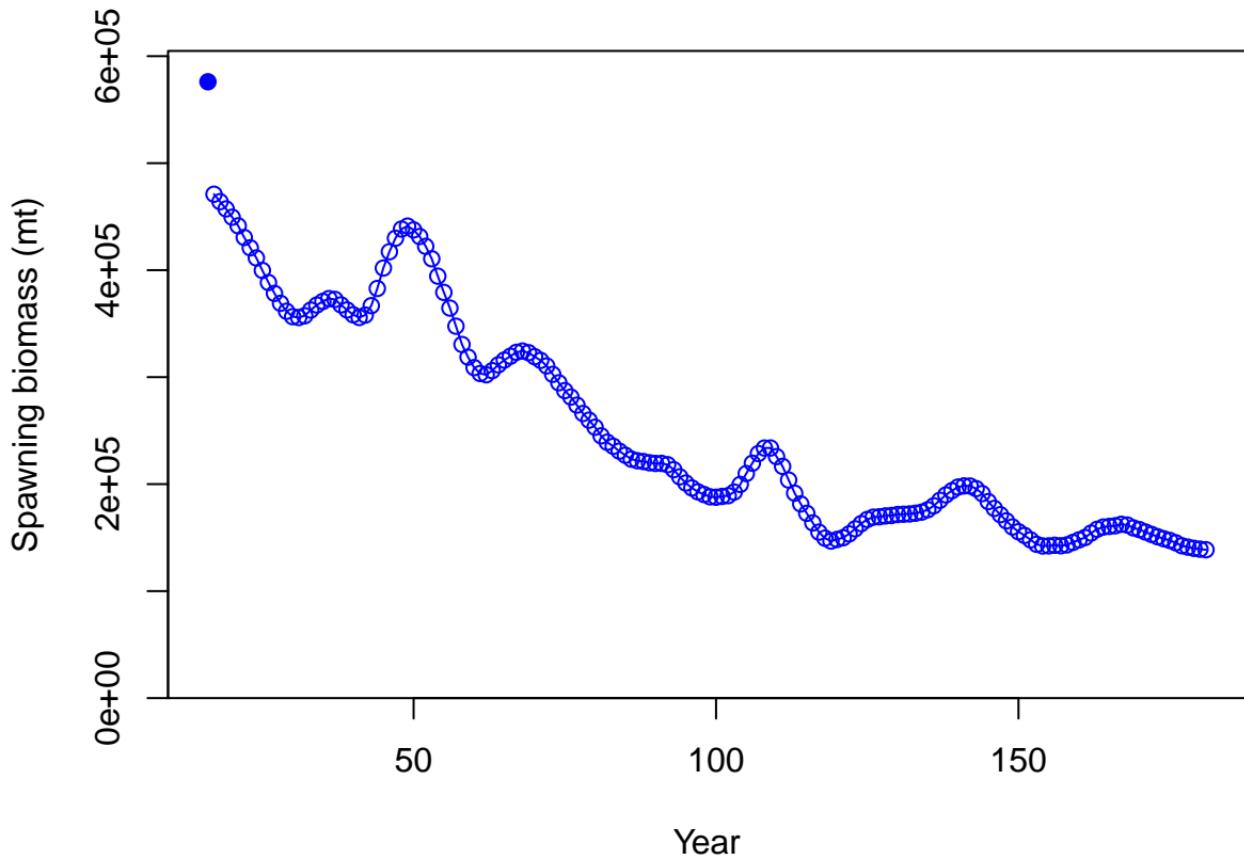
## Summary biomass (mt)



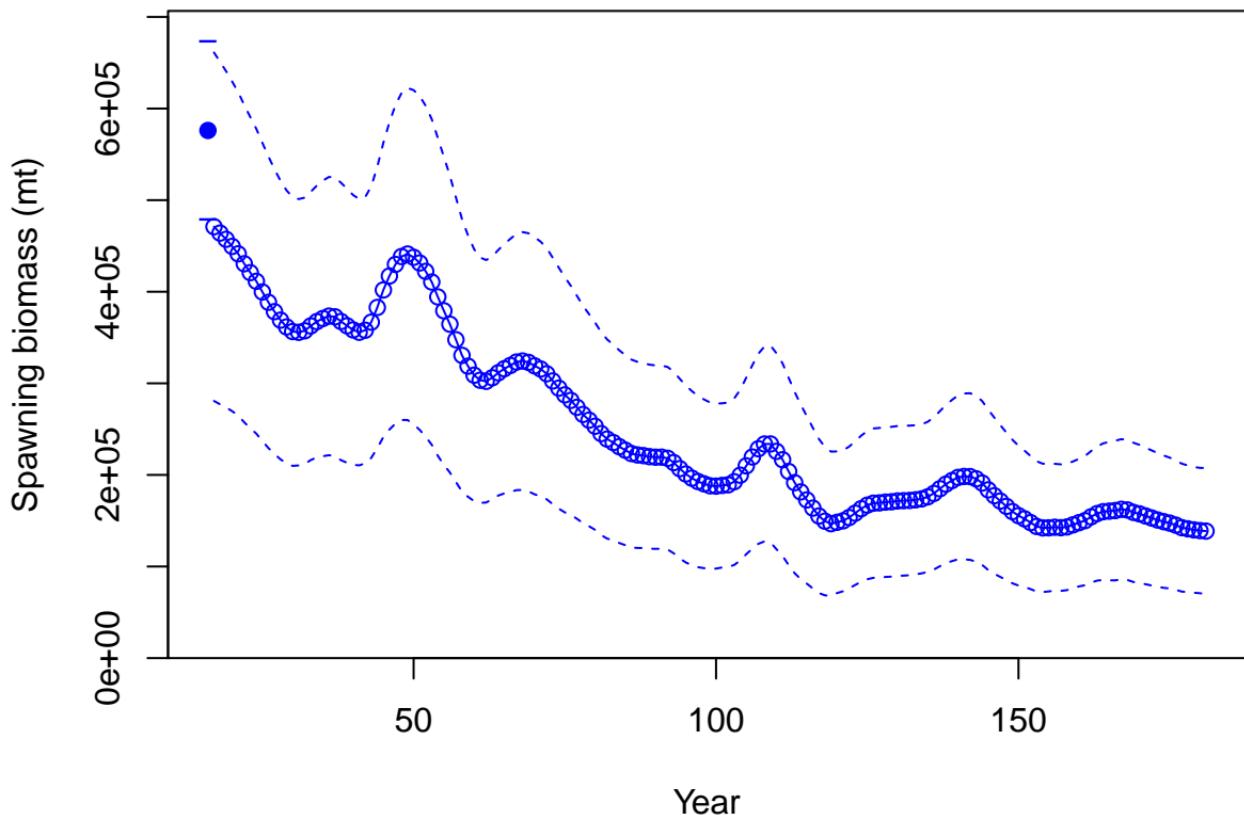
## Summary biomass (mt) with forecast



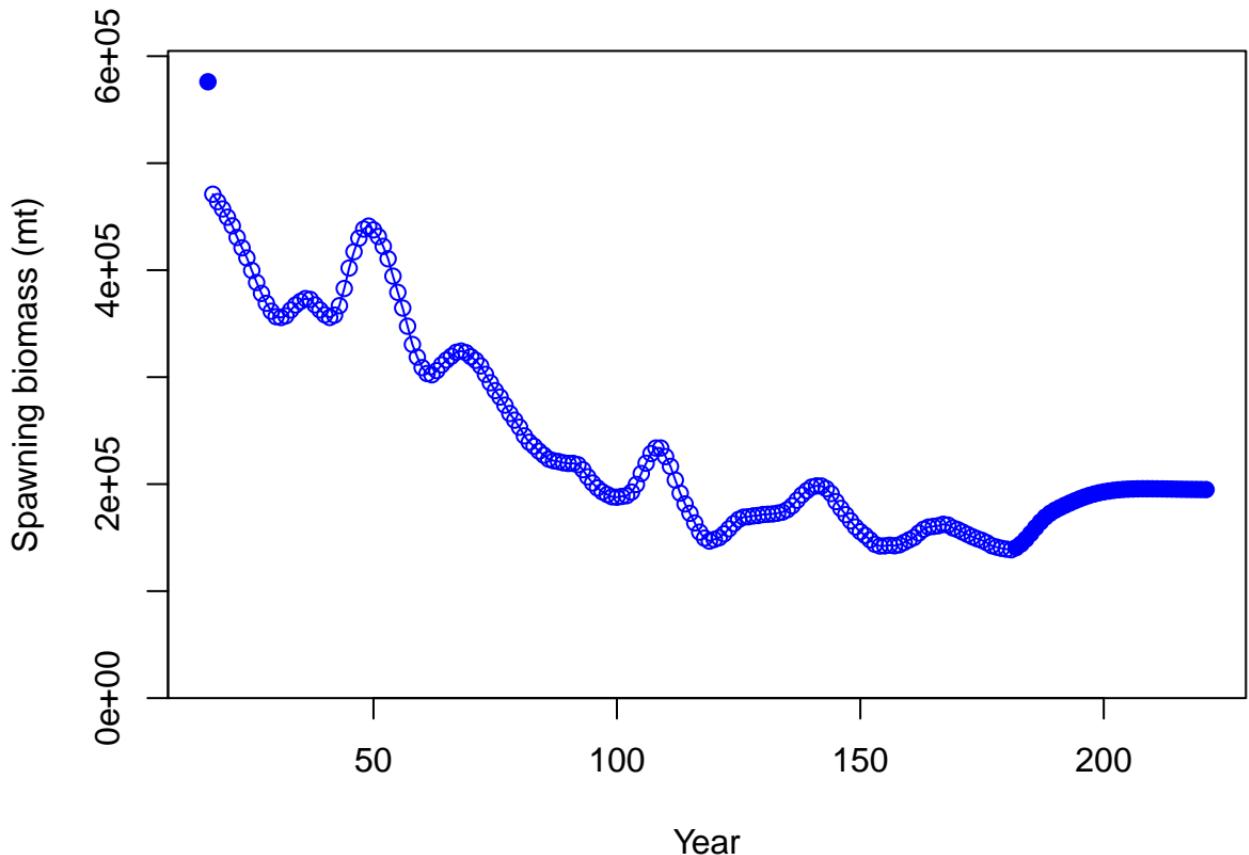
## Spawning biomass (mt)



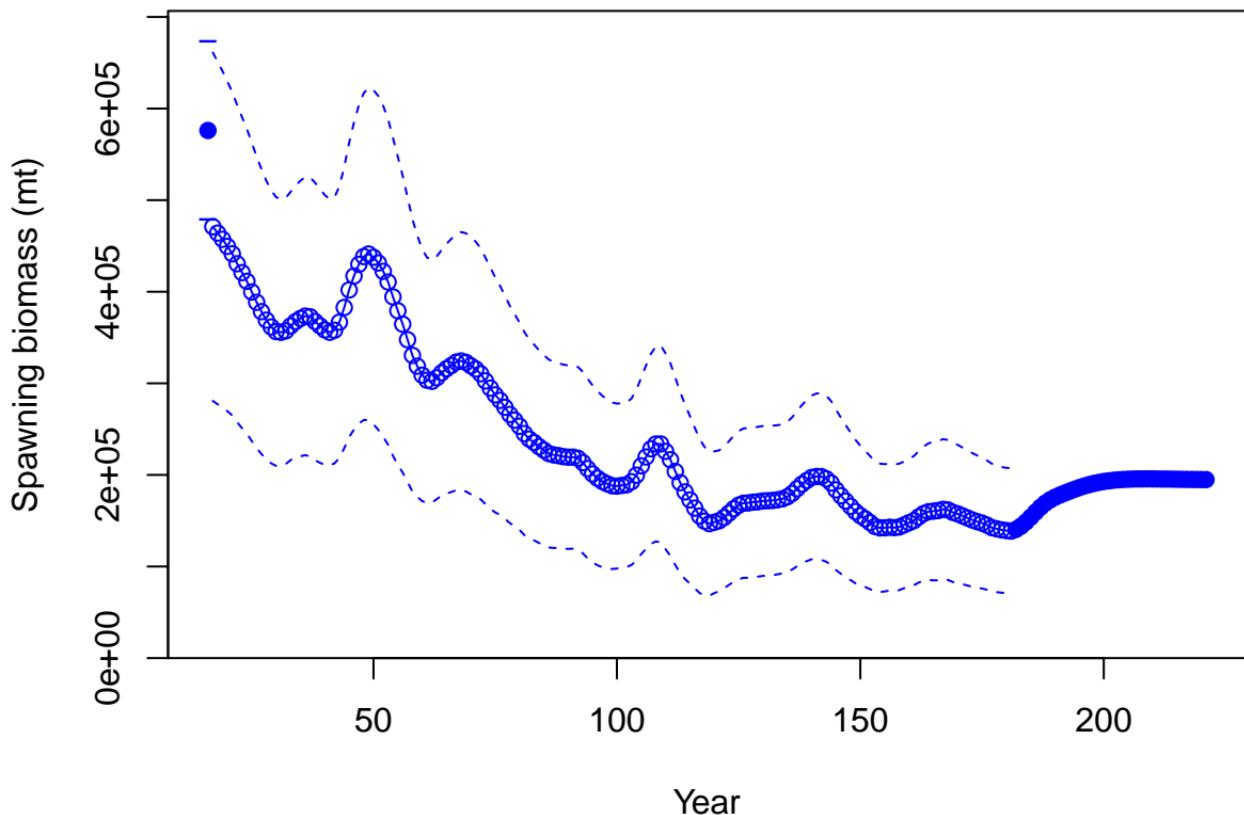
## Spawning biomass (mt) with ~95% asymptotic intervals



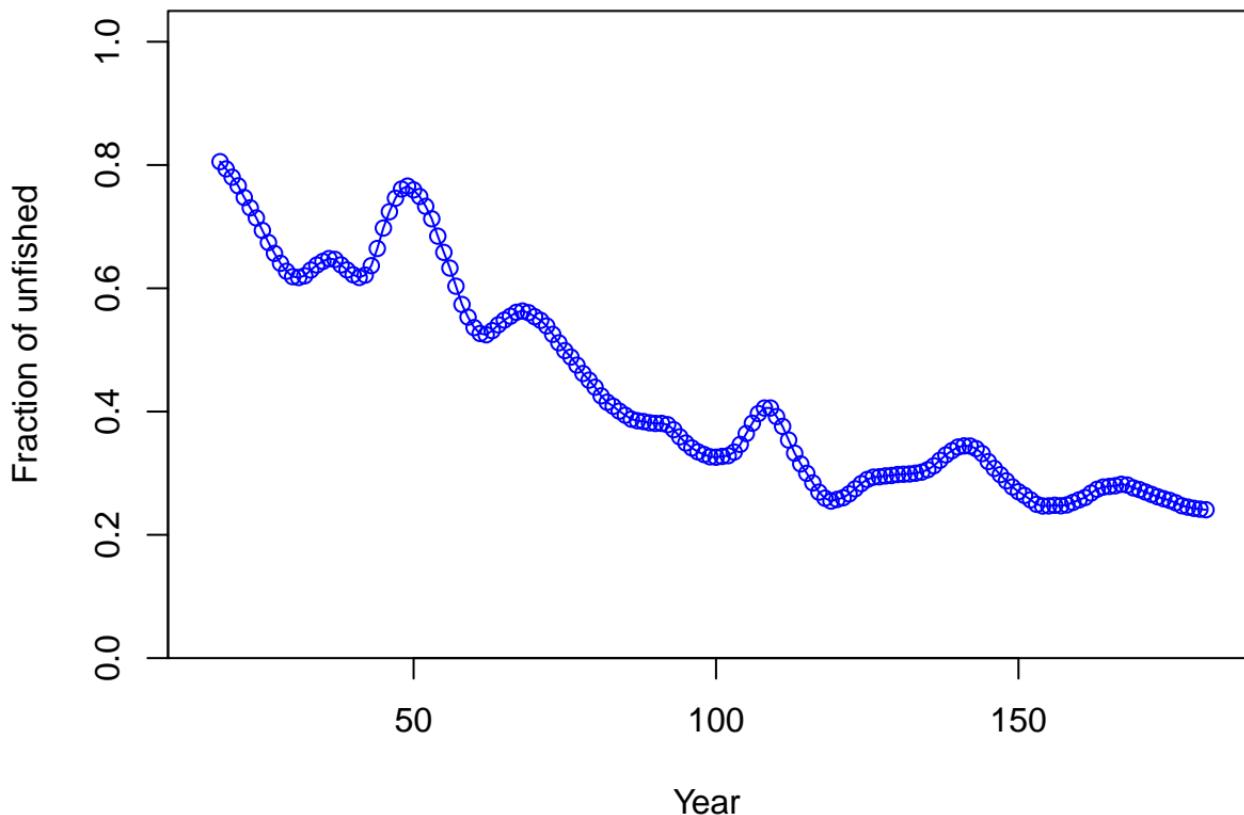
### Spawning biomass (mt) with forecast



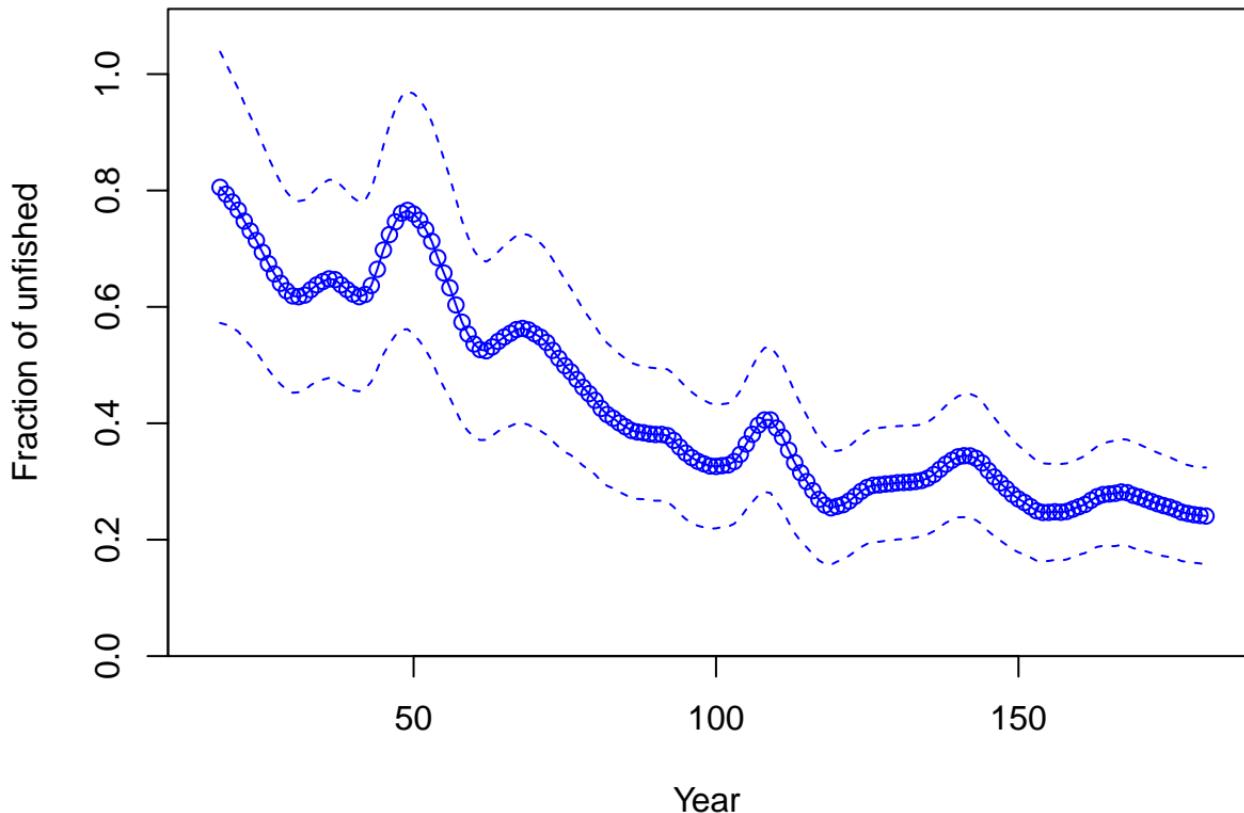
## Spawning biomass (mt) with forecast with ~95% asymptotic intervals



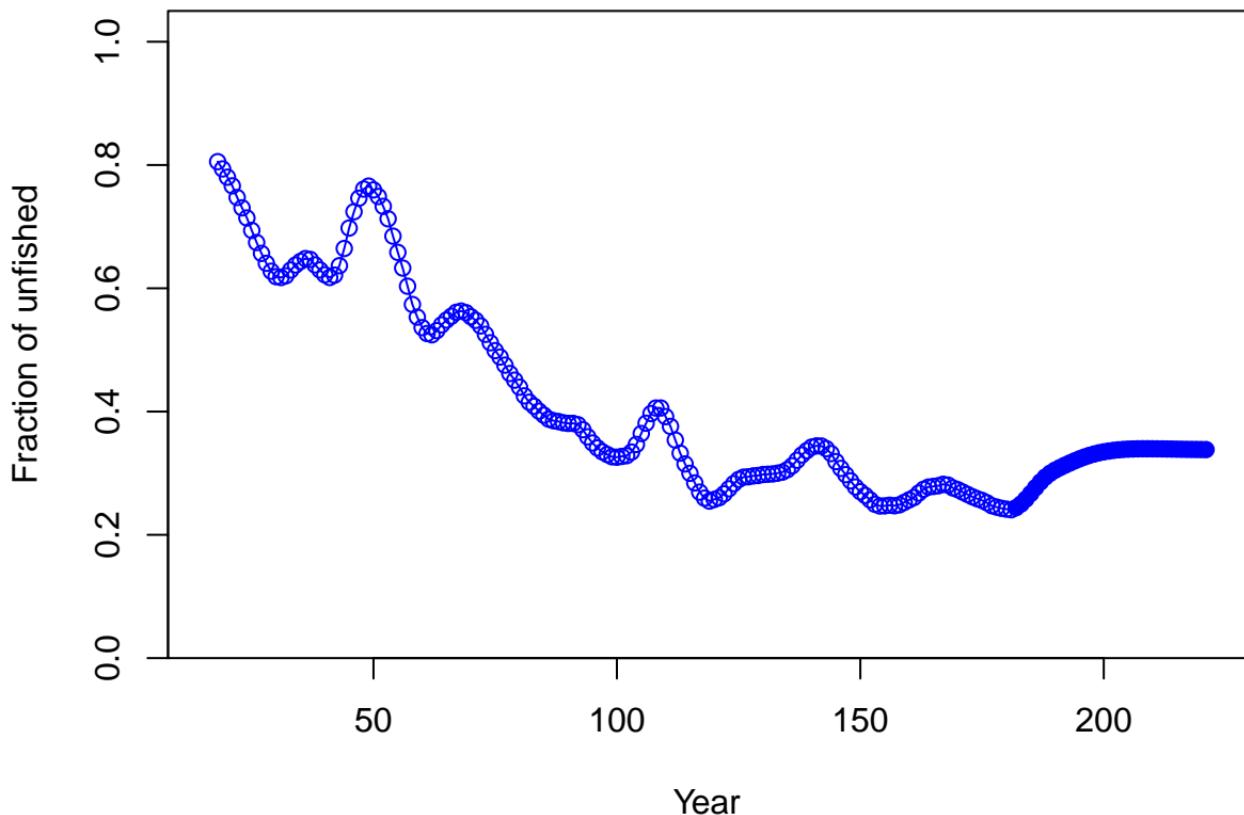
## Fraction of unfished



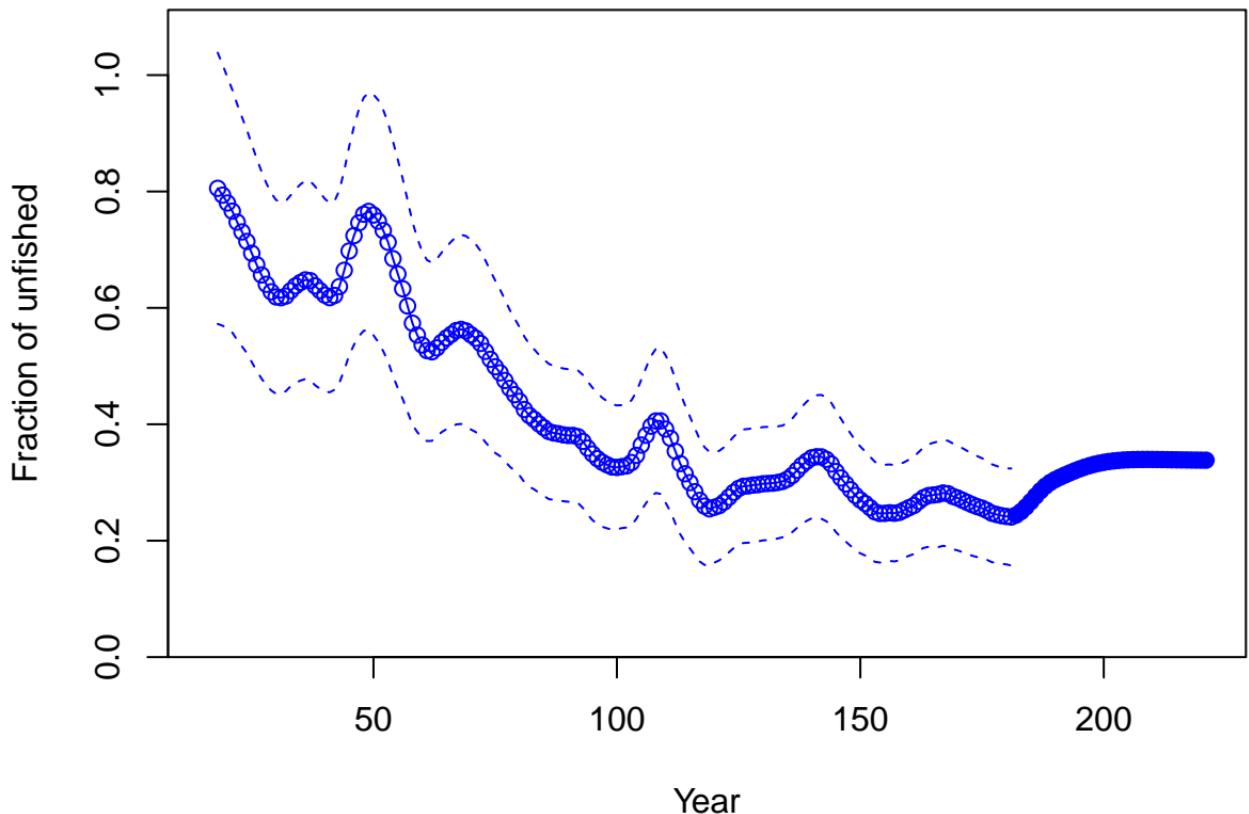
## Fraction of unfished with ~95% asymptotic intervals



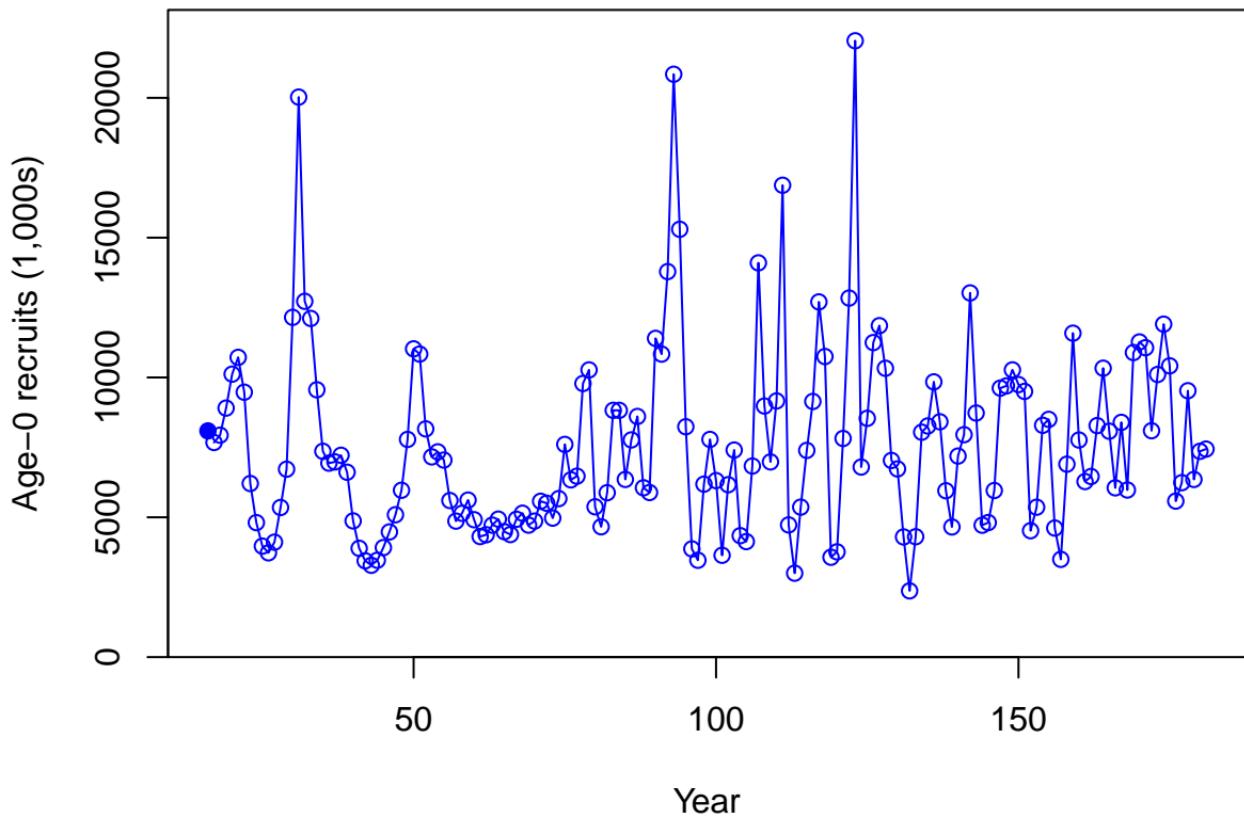
## Fraction of unfished with forecast



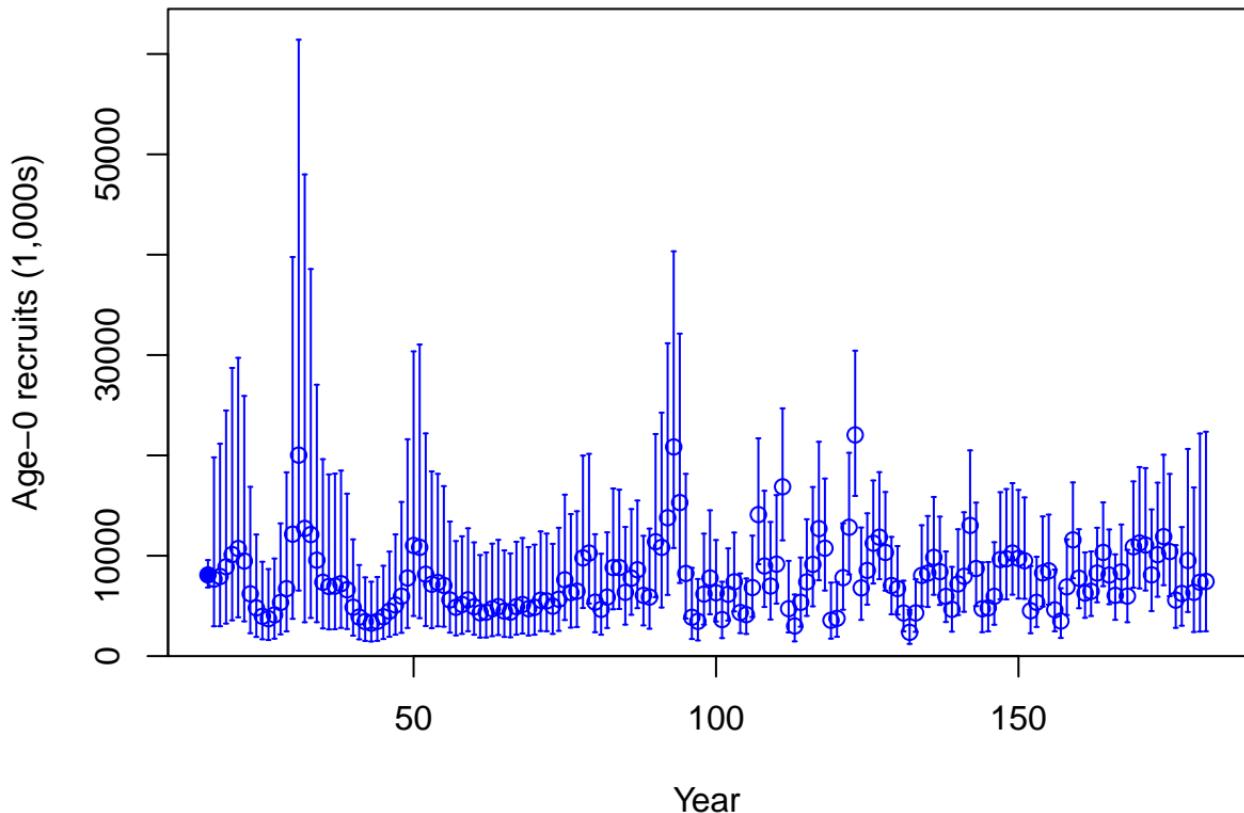
## Fraction of unfished with forecast with ~95% asymptotic intervals



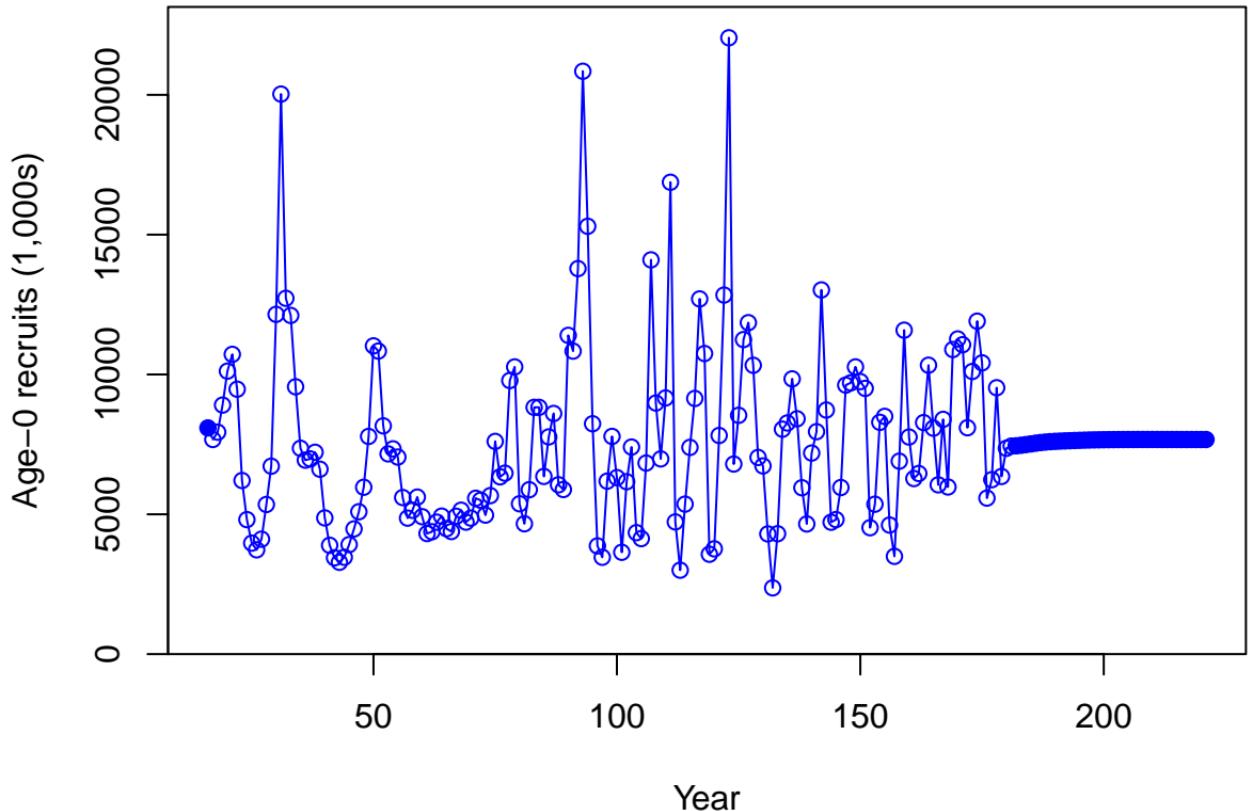
## Age-0 recruits (1,000s)



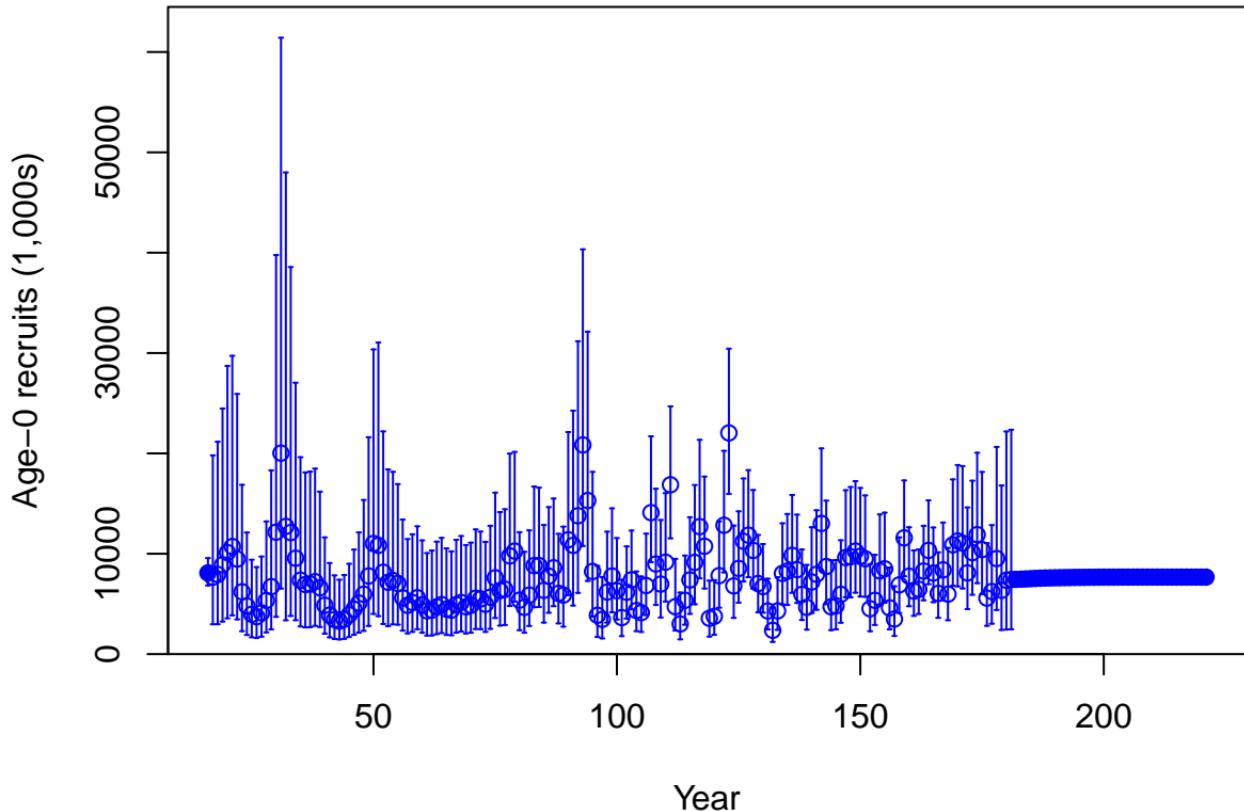
## Age-0 recruits (1,000s) with ~95% asymptotic intervals

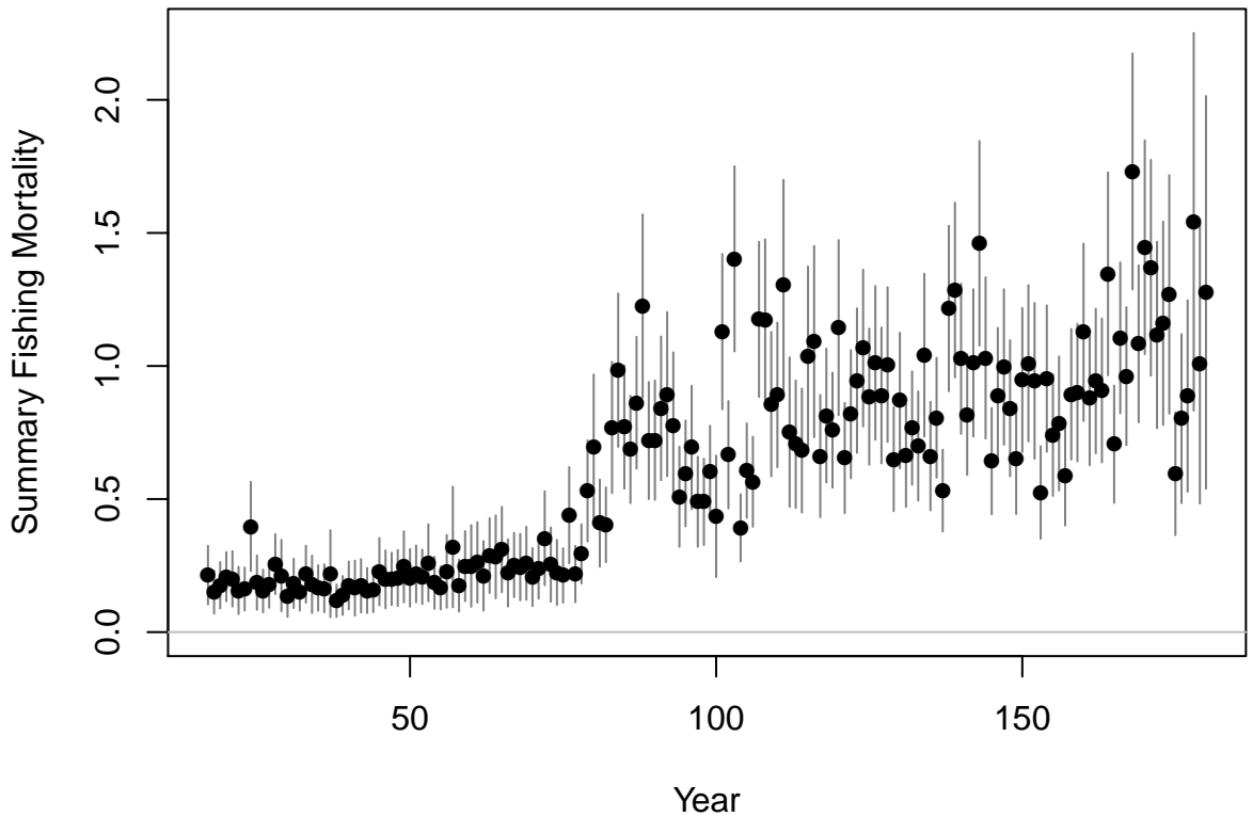


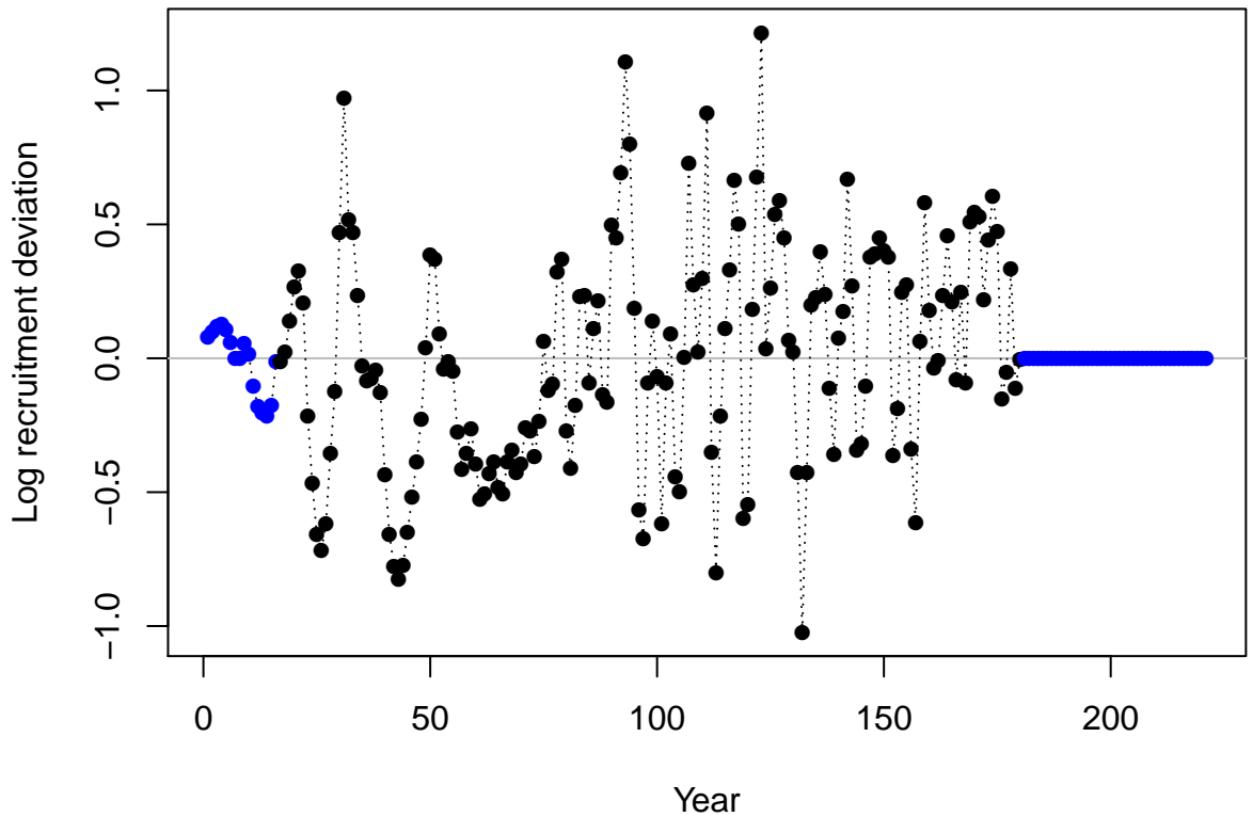
## Age-0 recruits (1,000s) with forecast



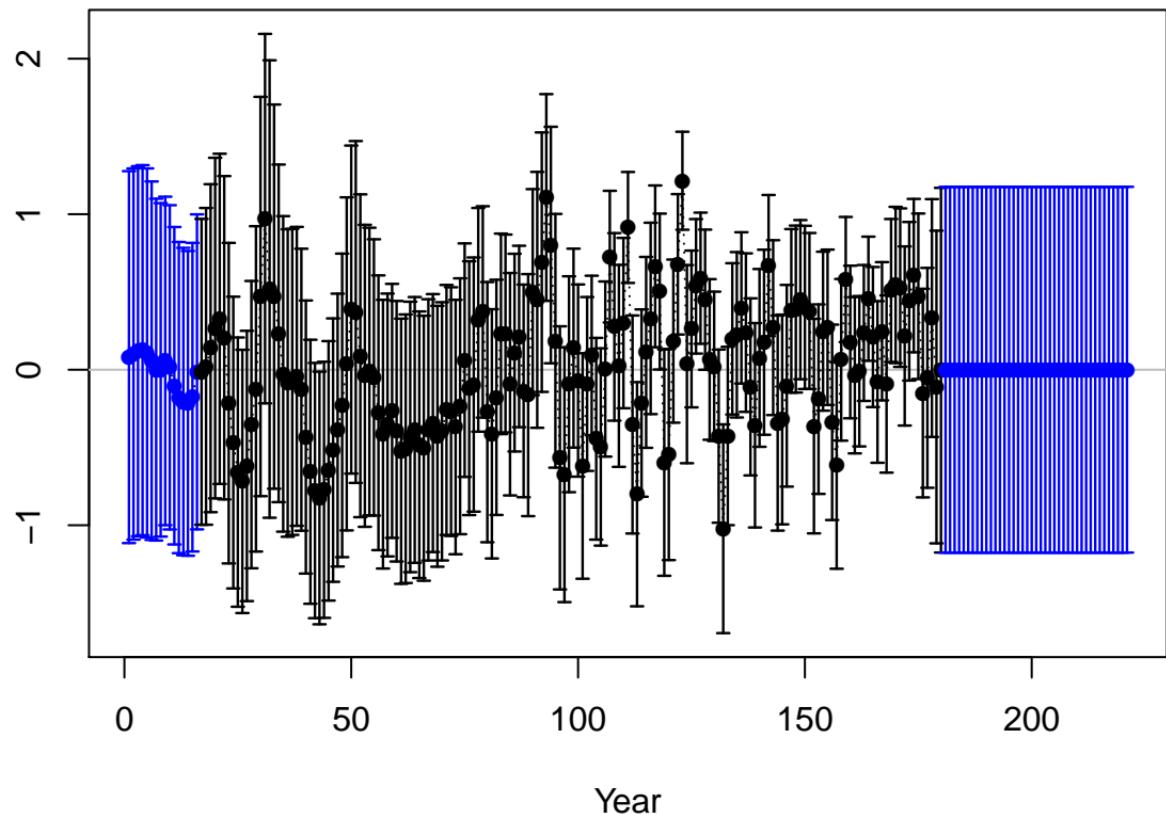
## Age-0 recruits (1,000s) with forecast with ~95% asymptotic intervals



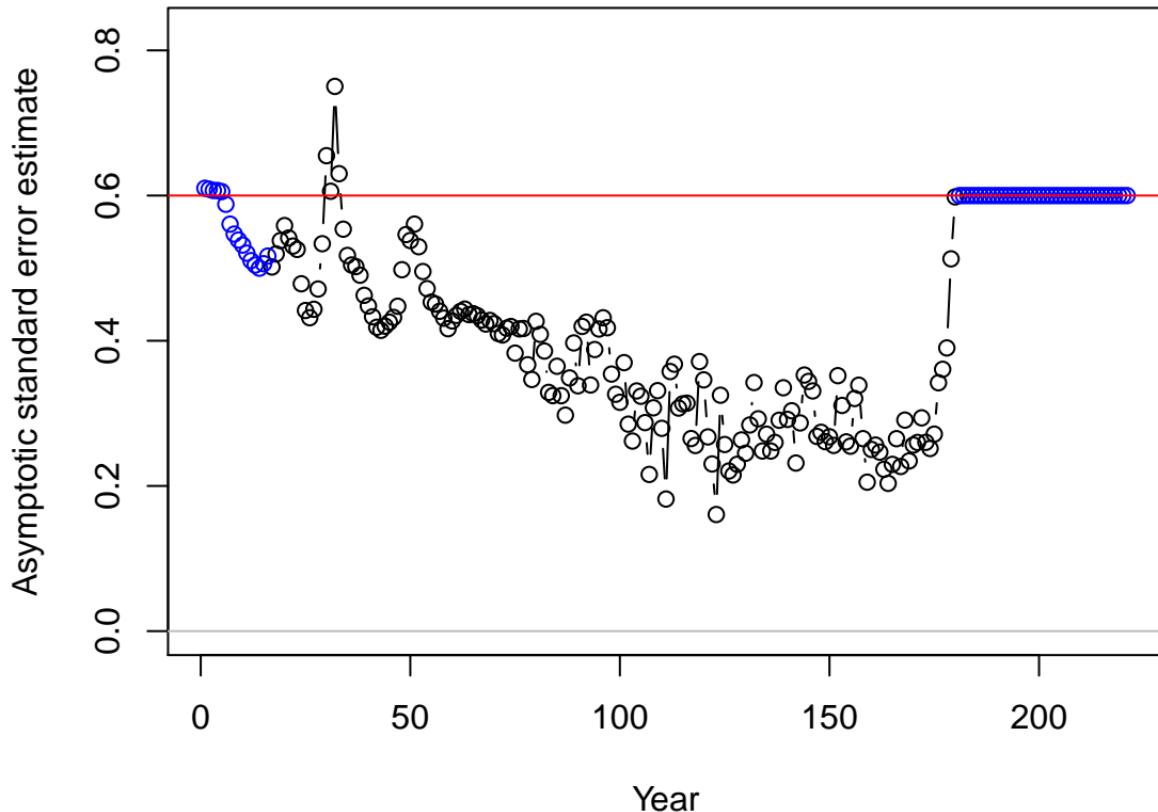


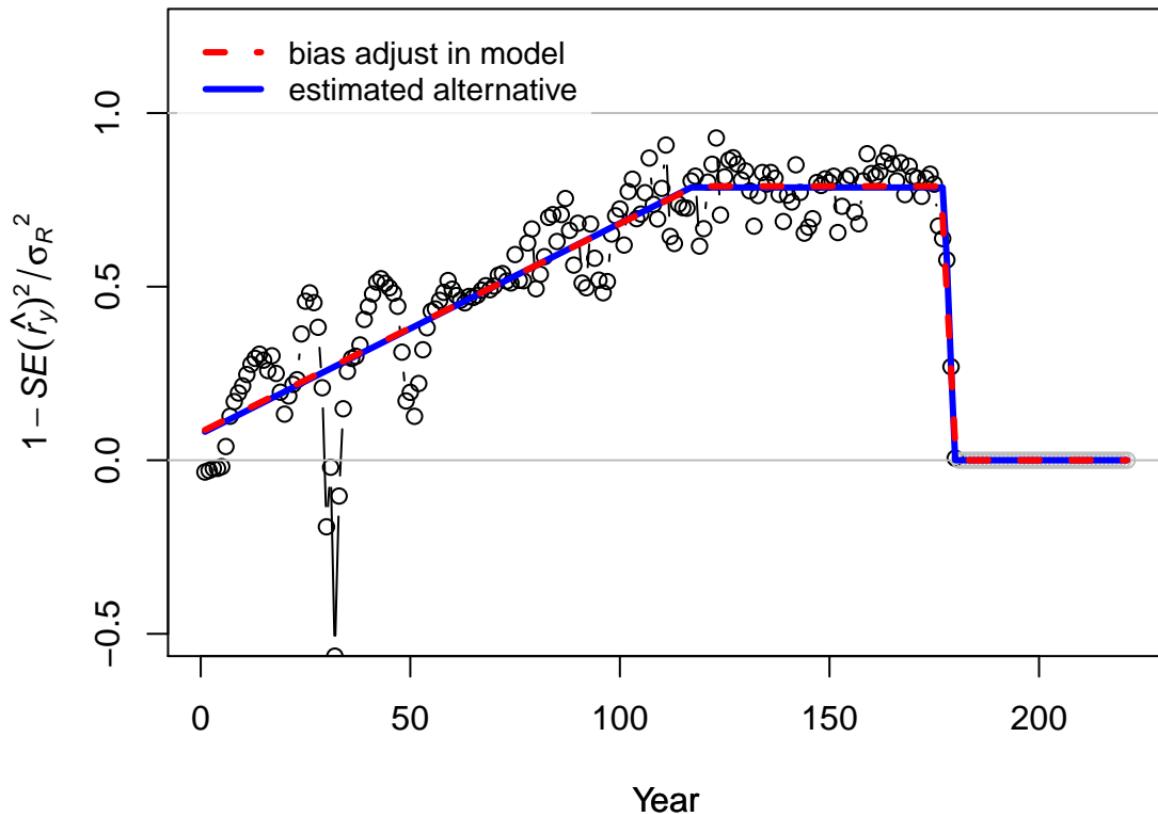


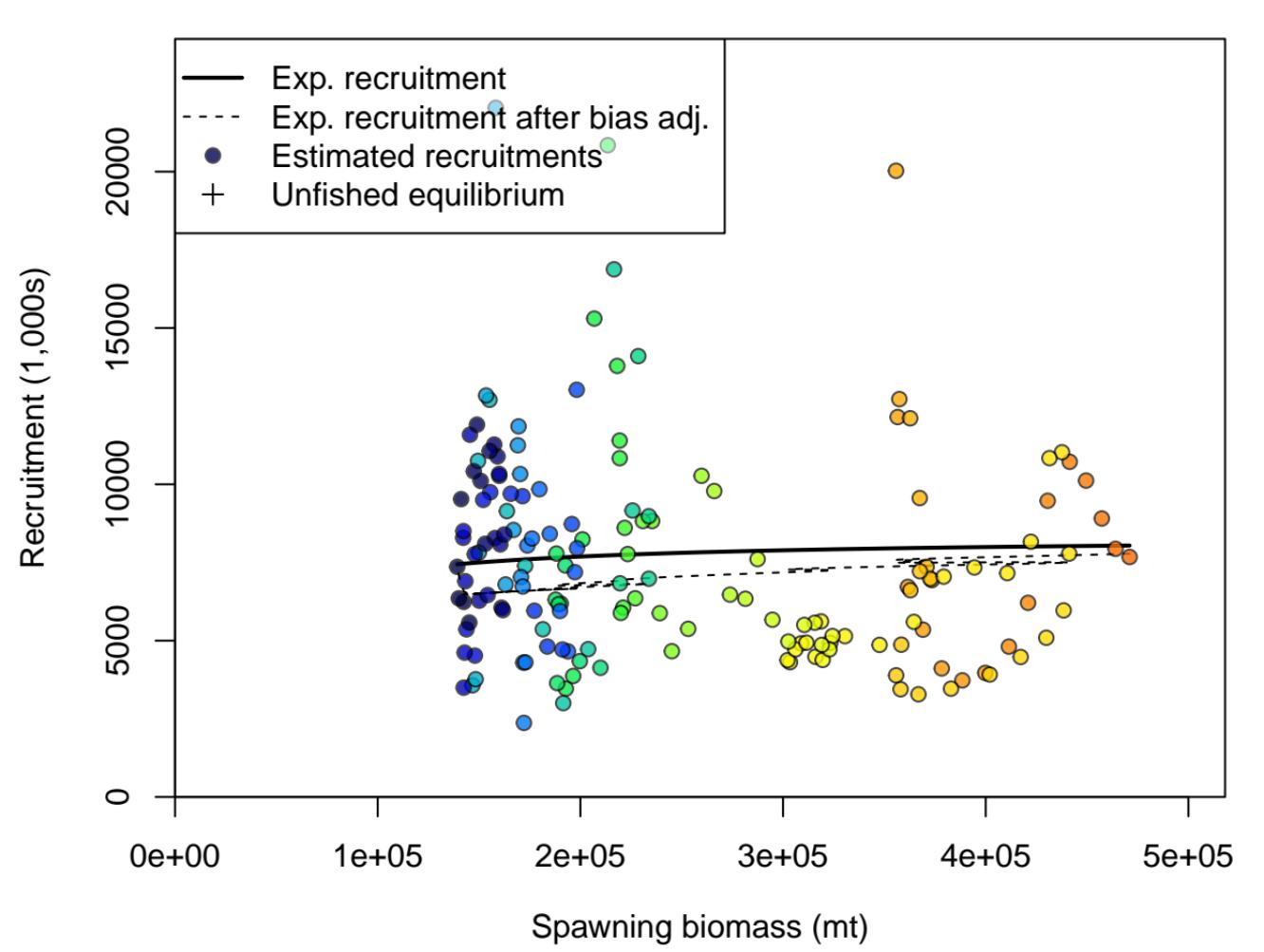
Log recruitment deviation

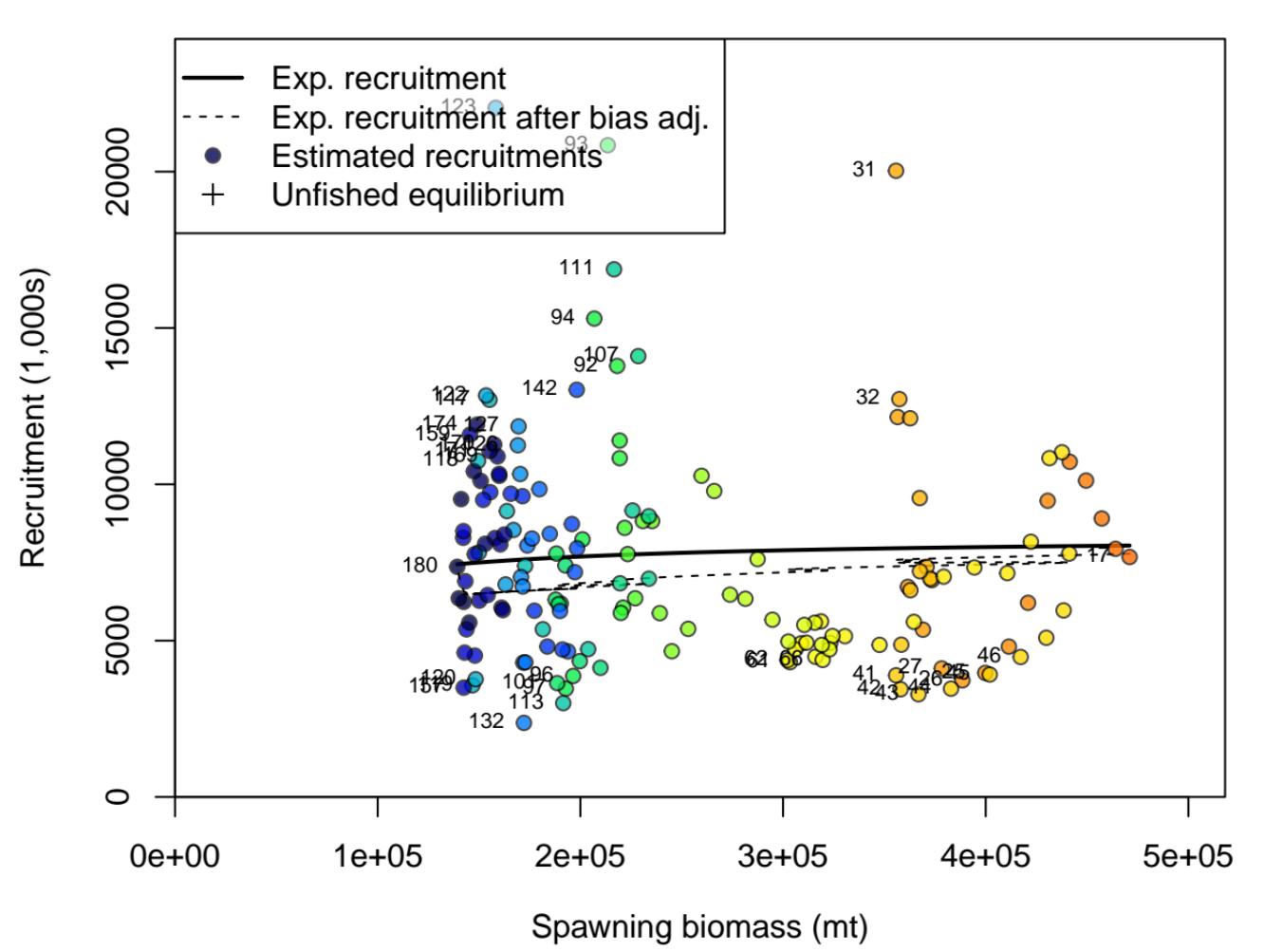


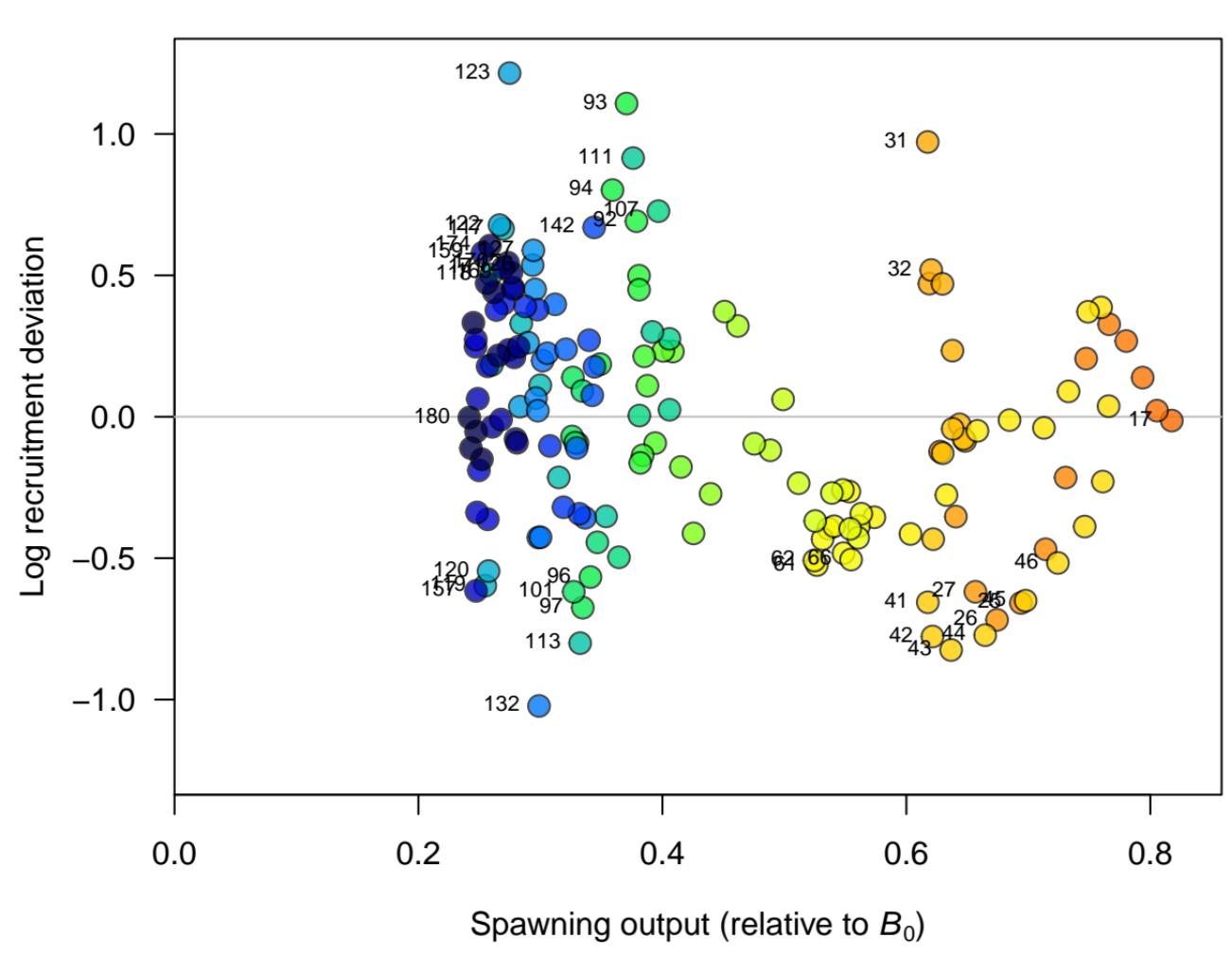
## Recruitment deviation variance

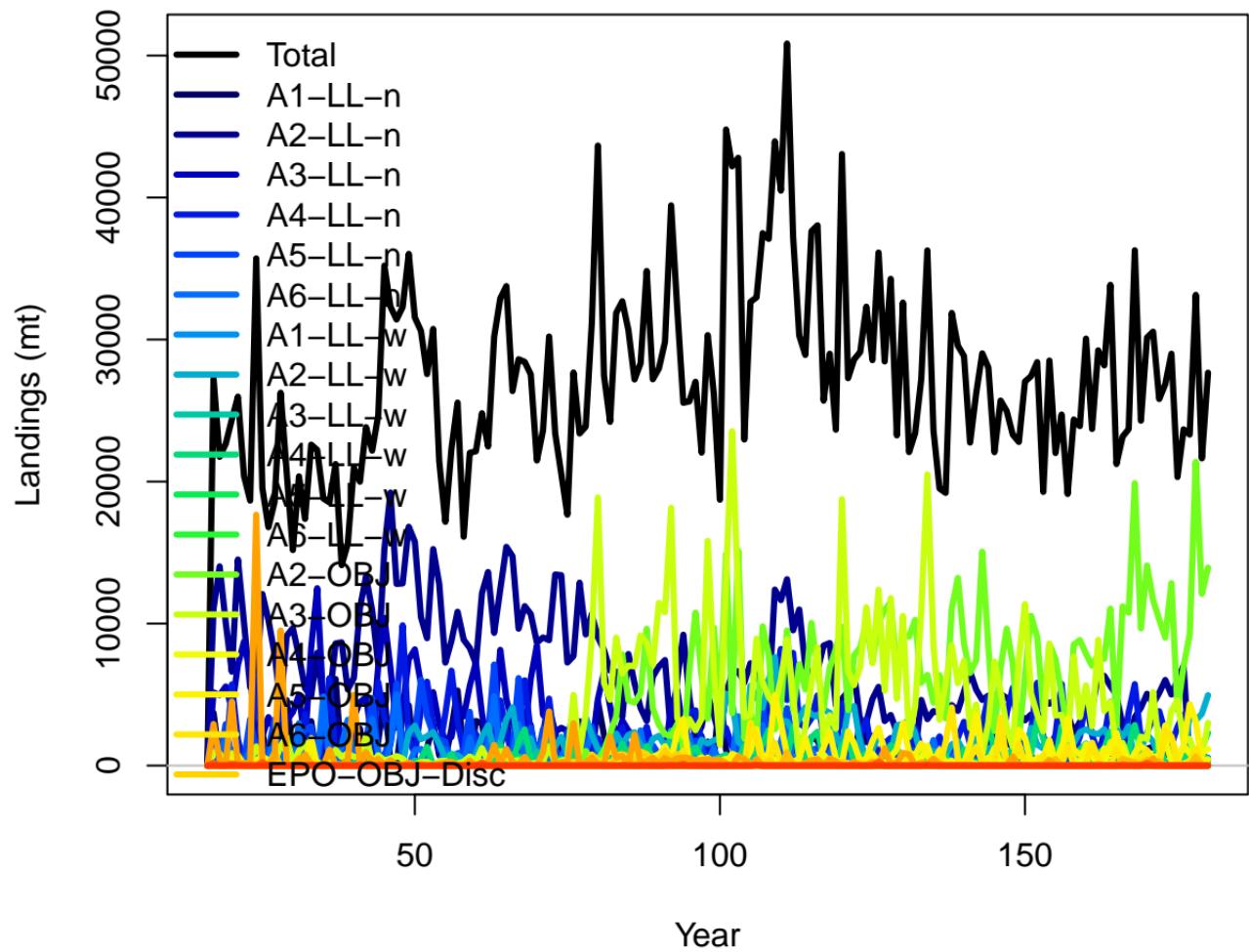


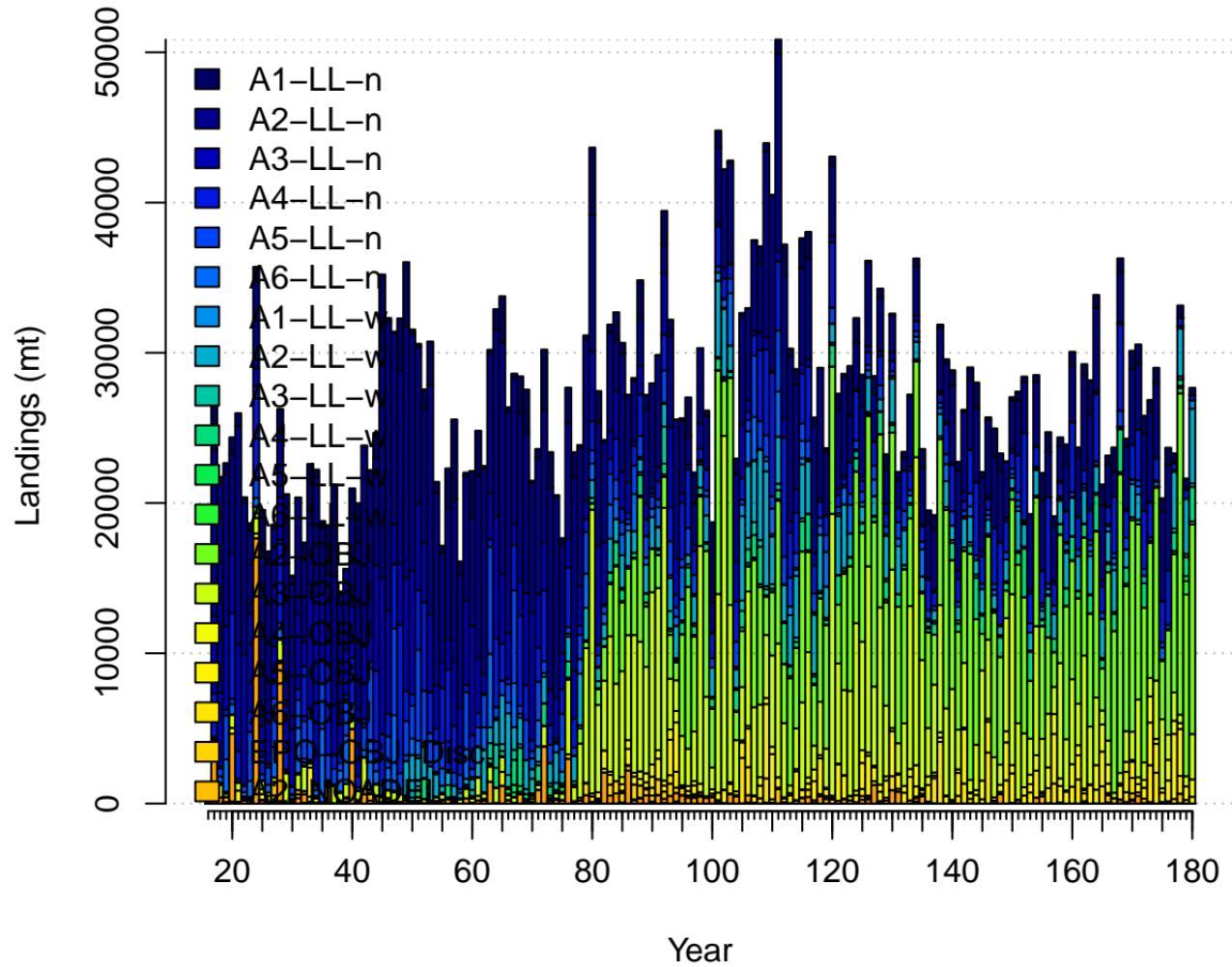


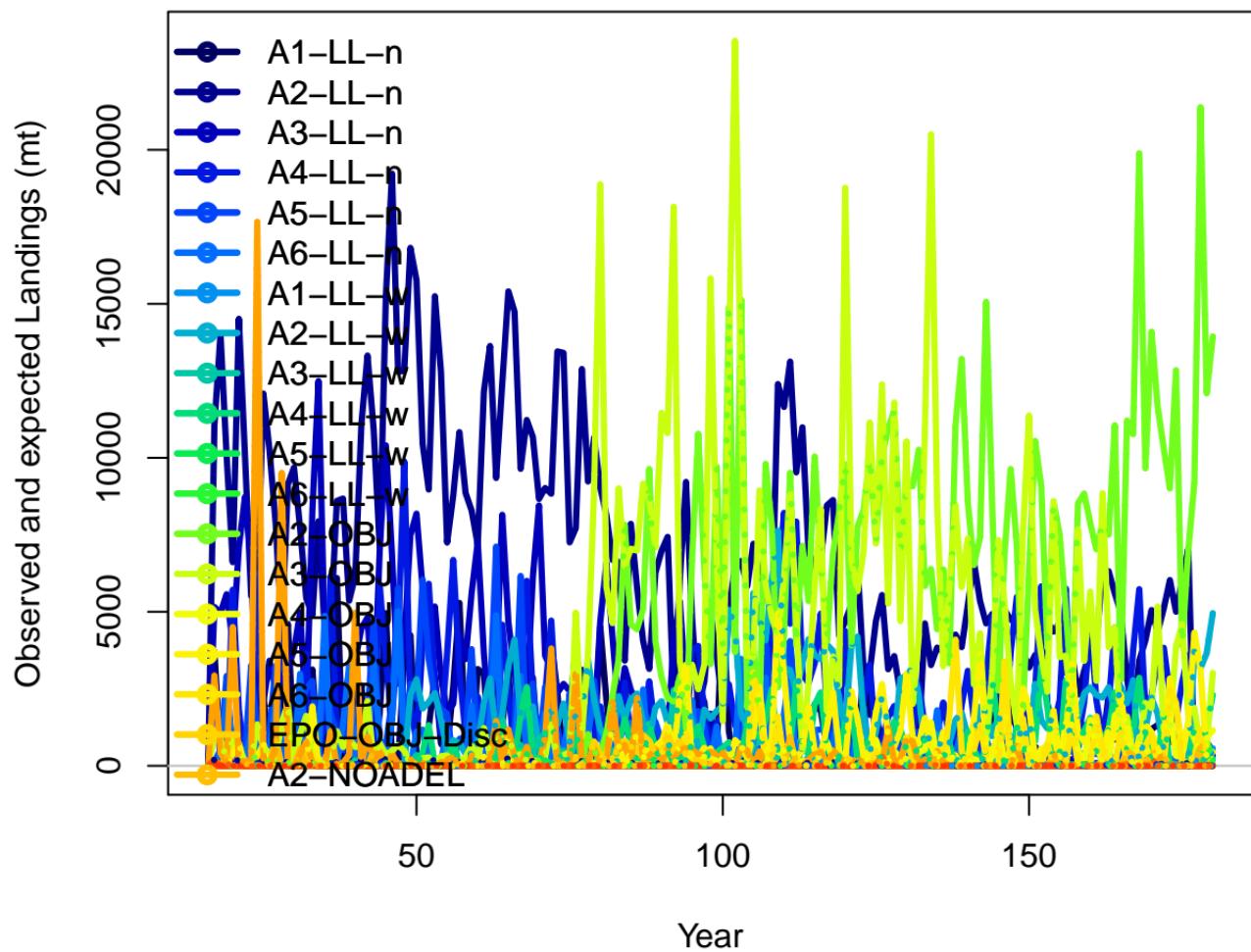




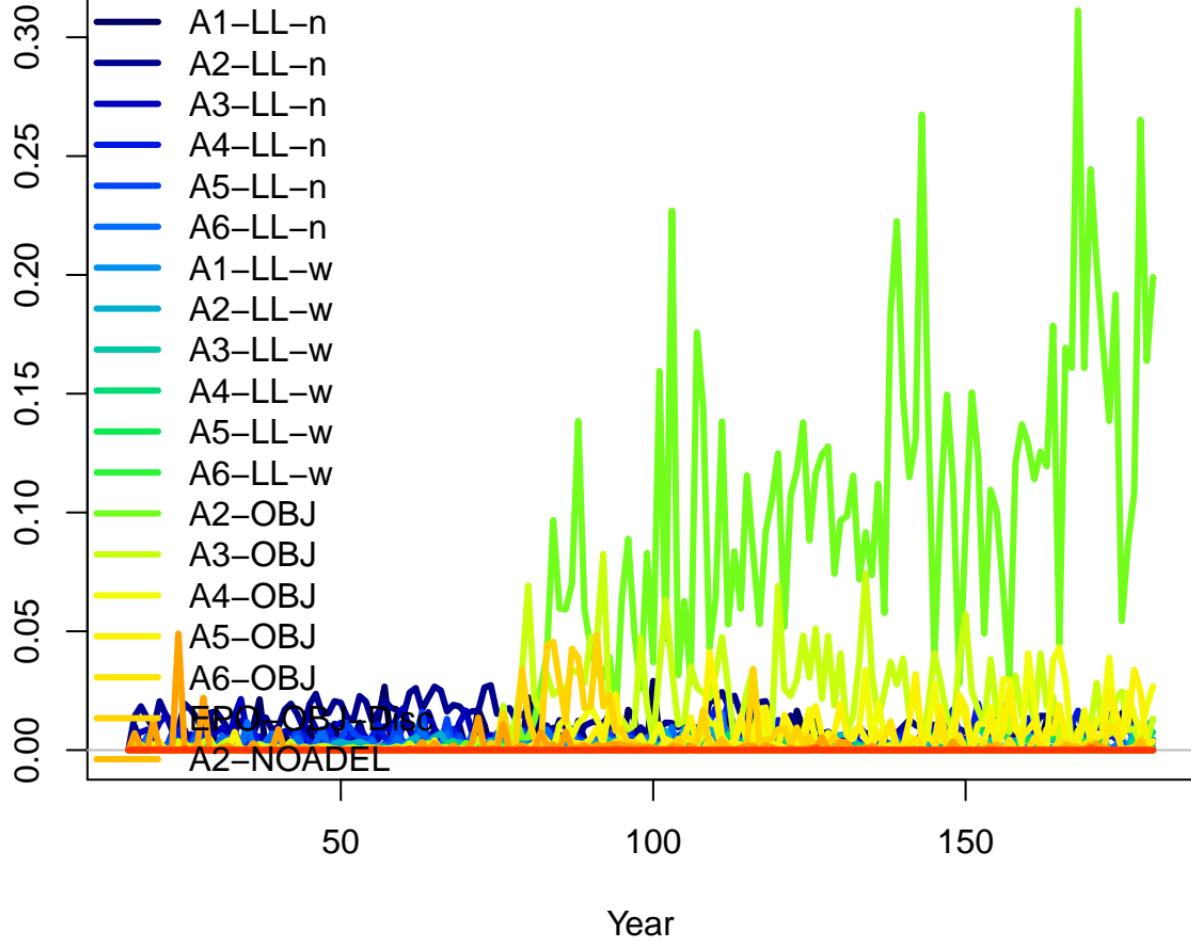


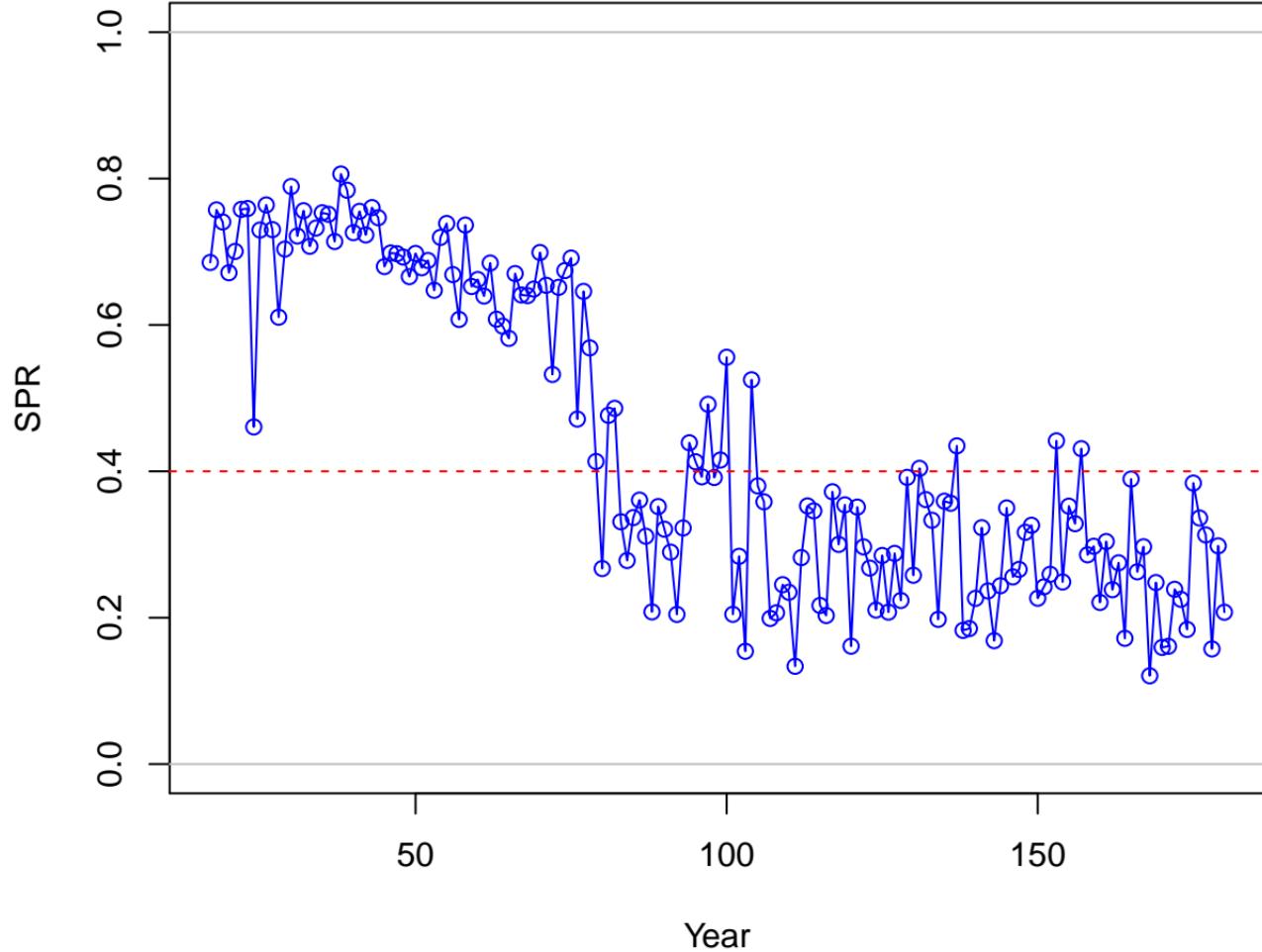


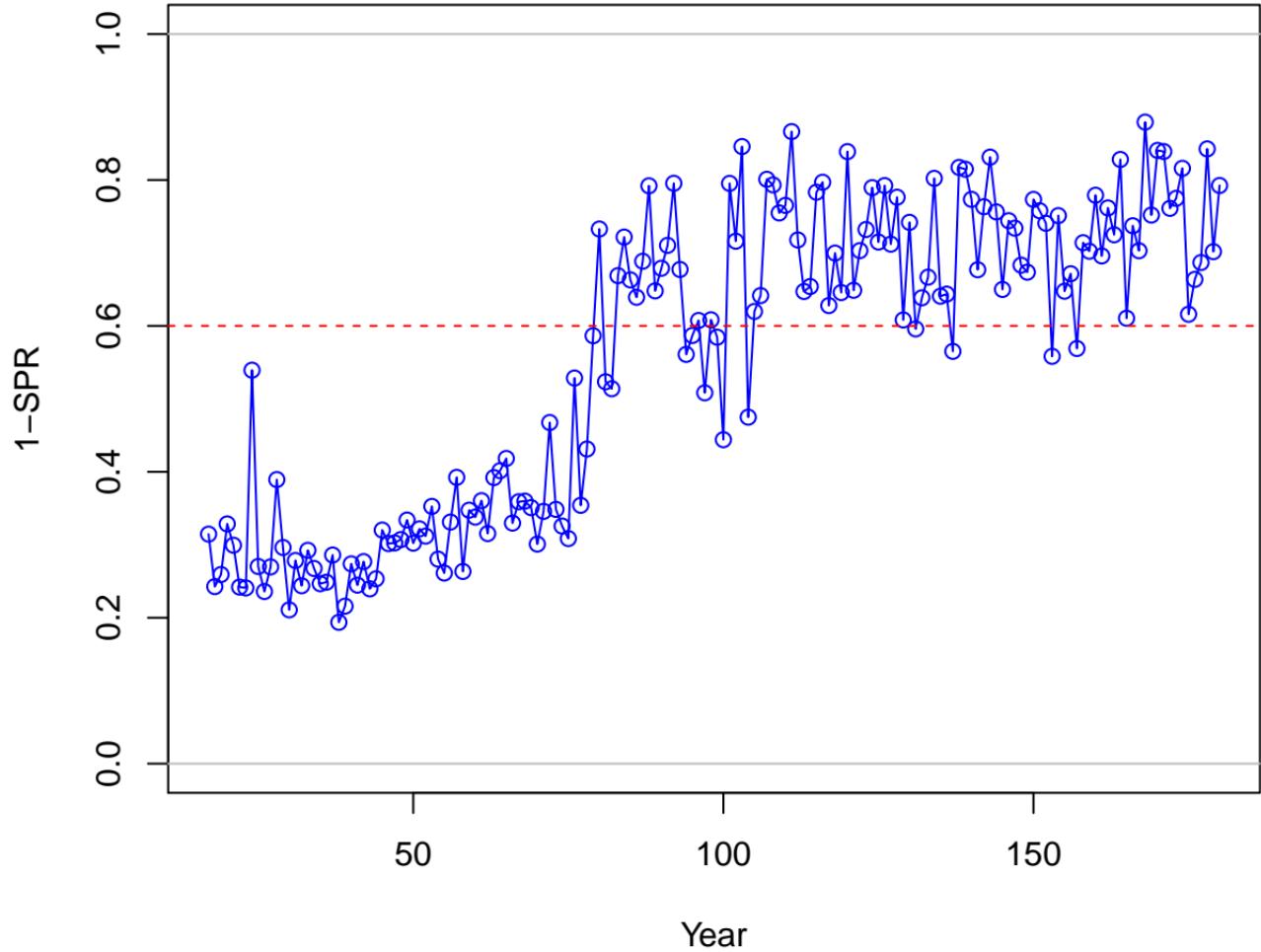


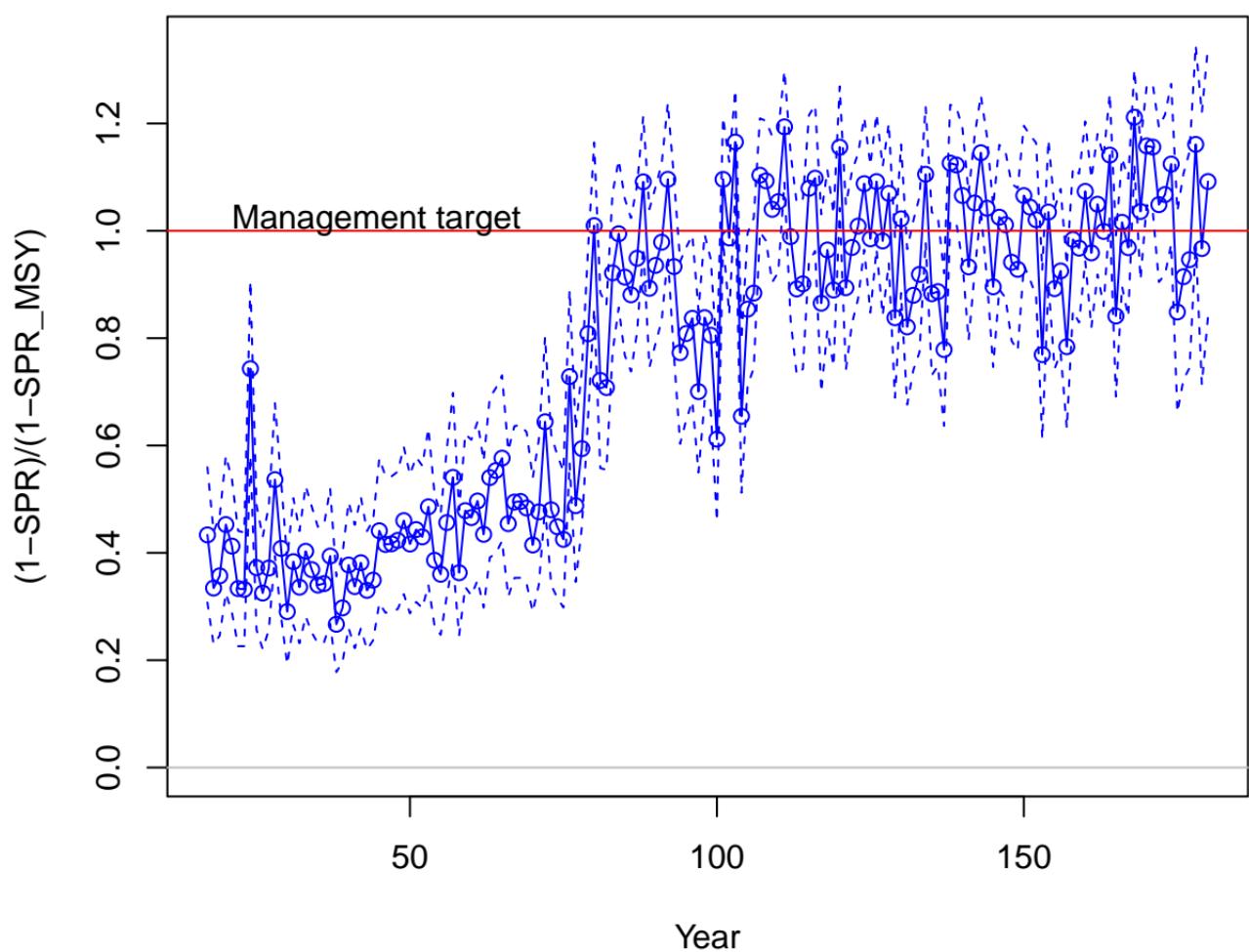


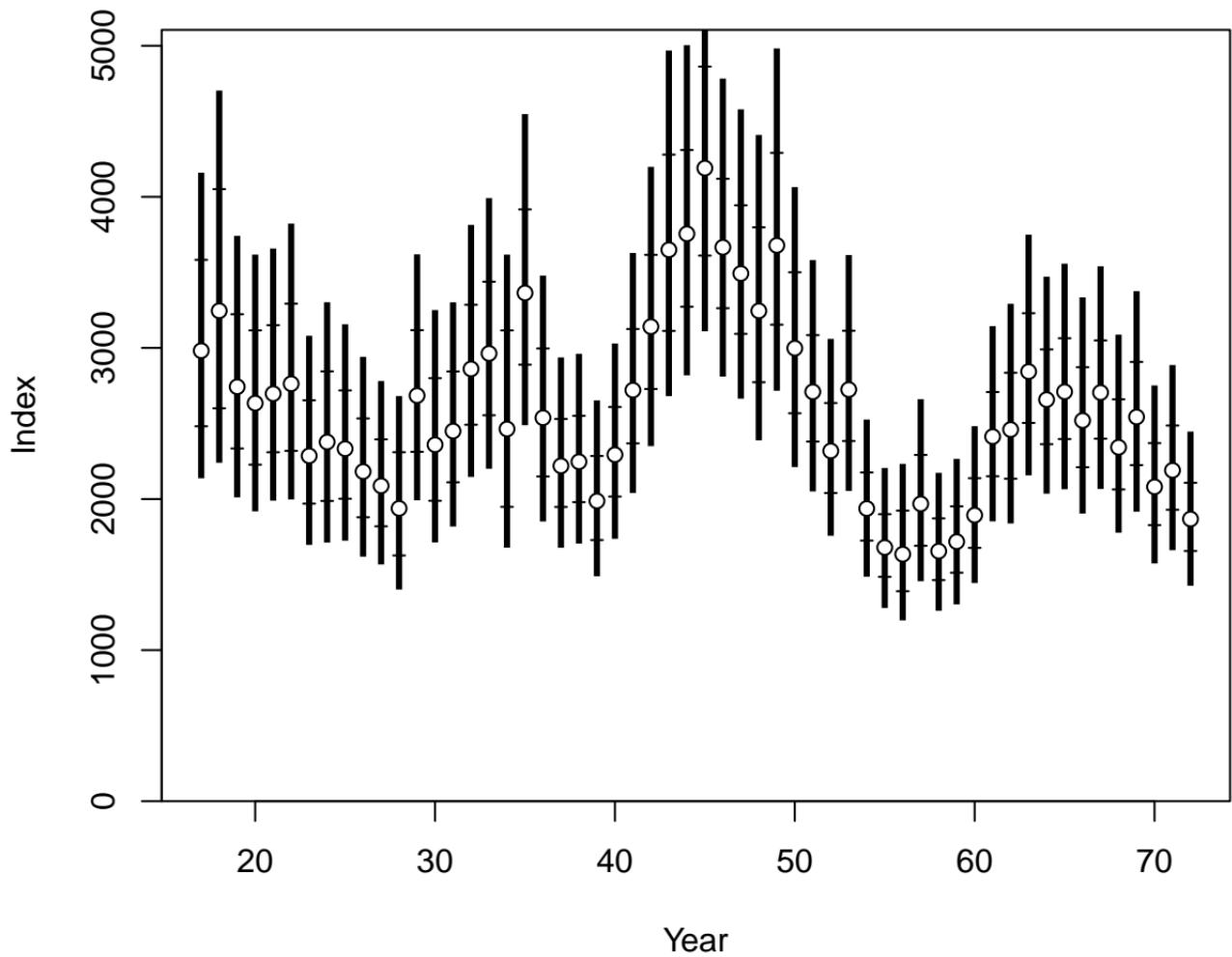
Continuous F

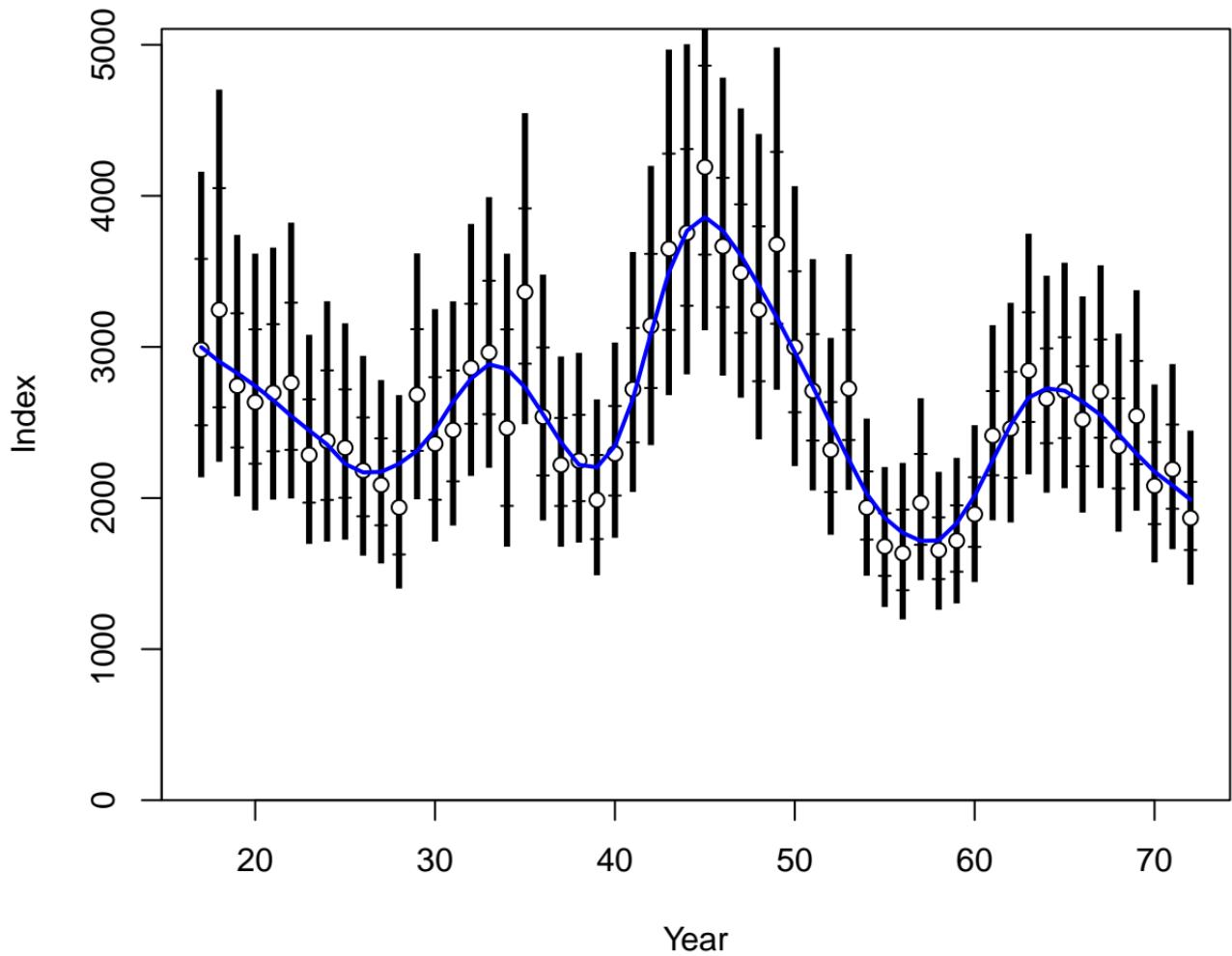


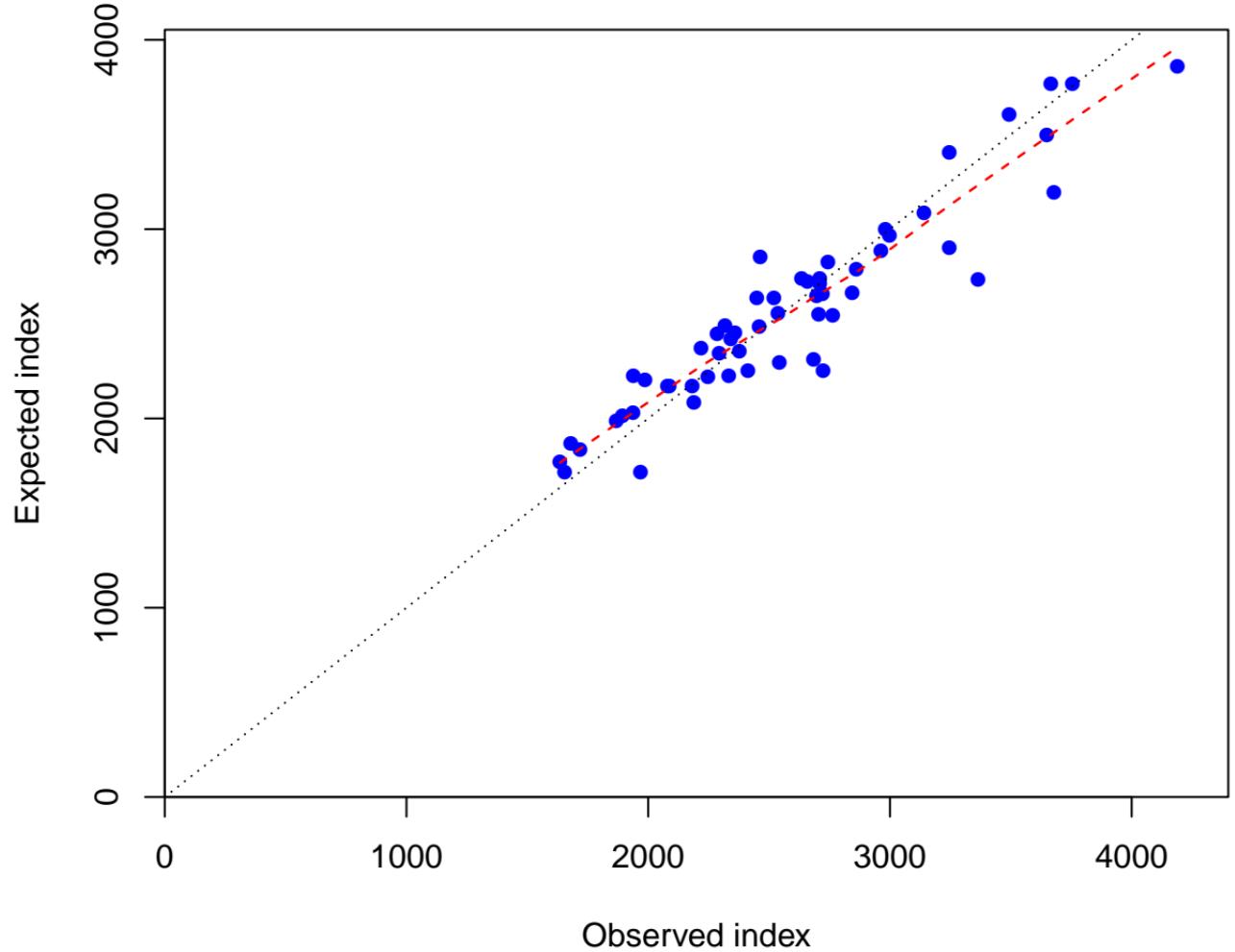


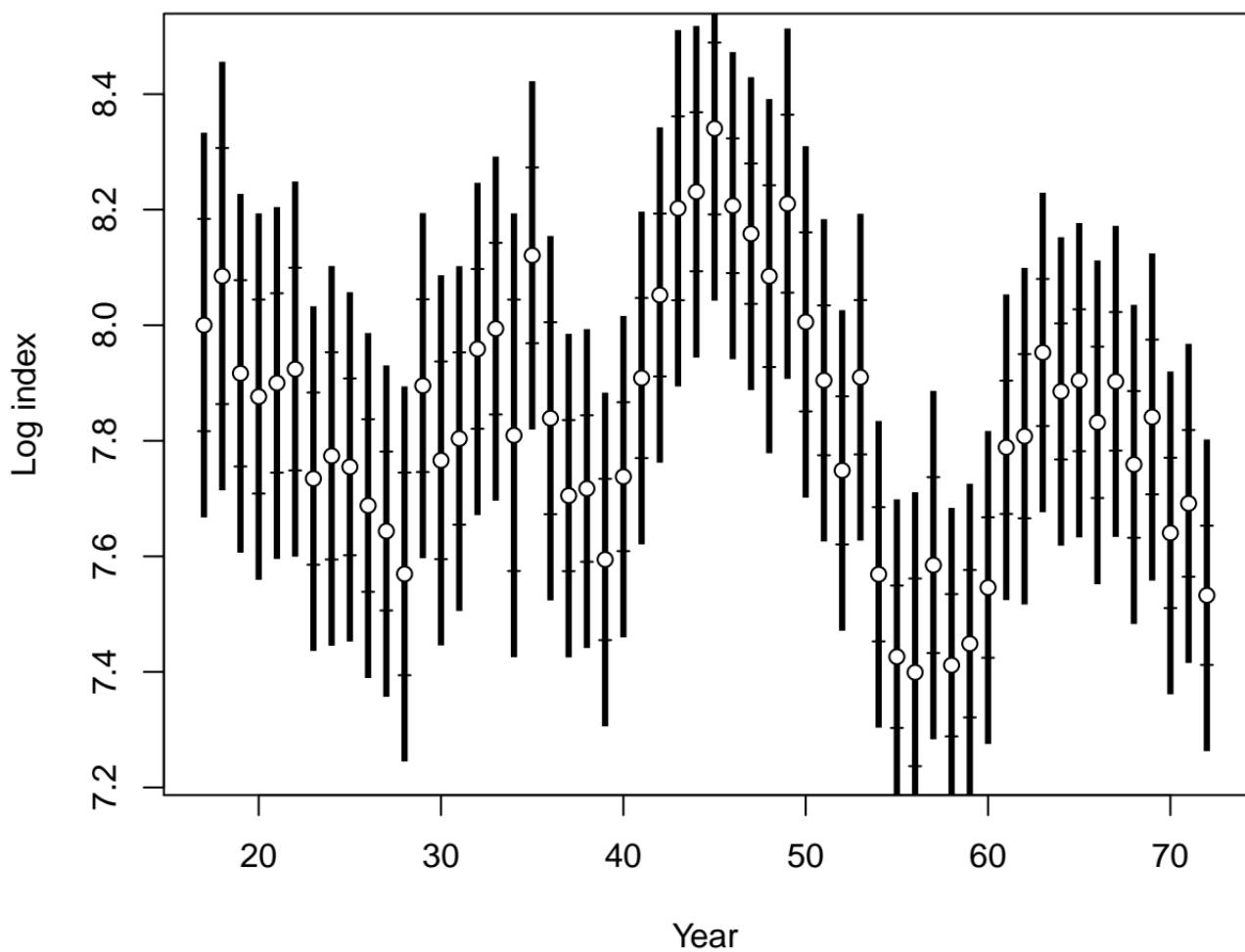


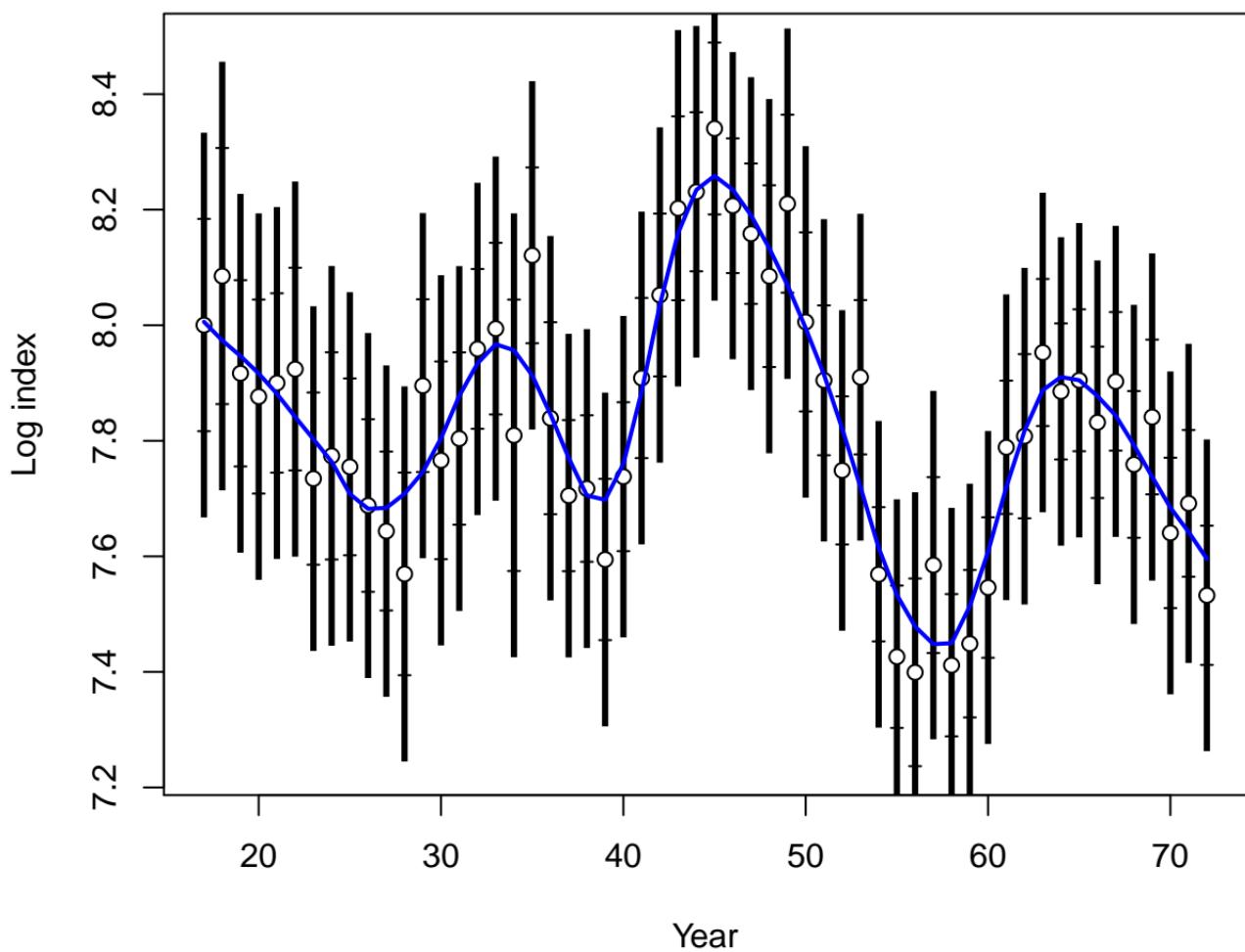


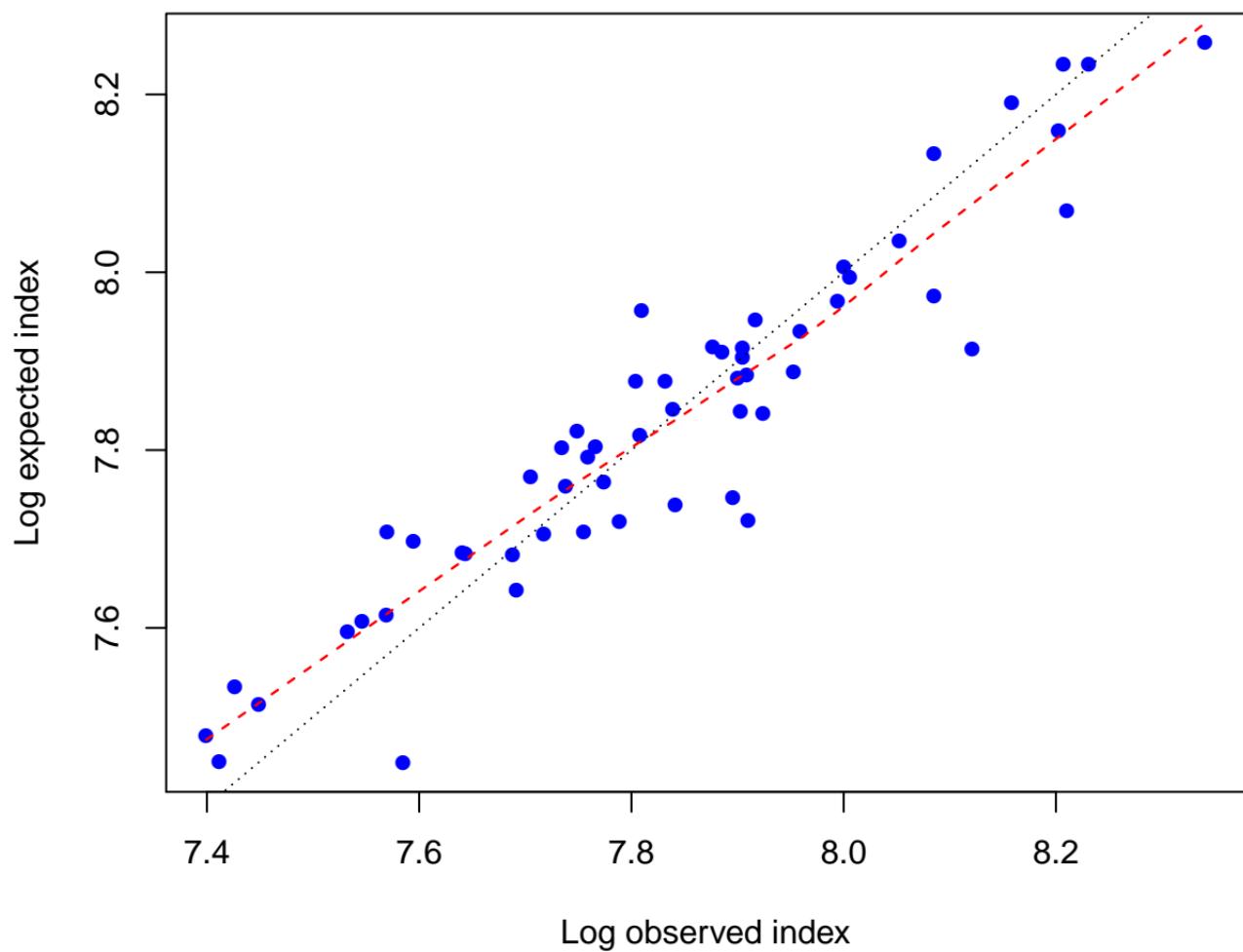


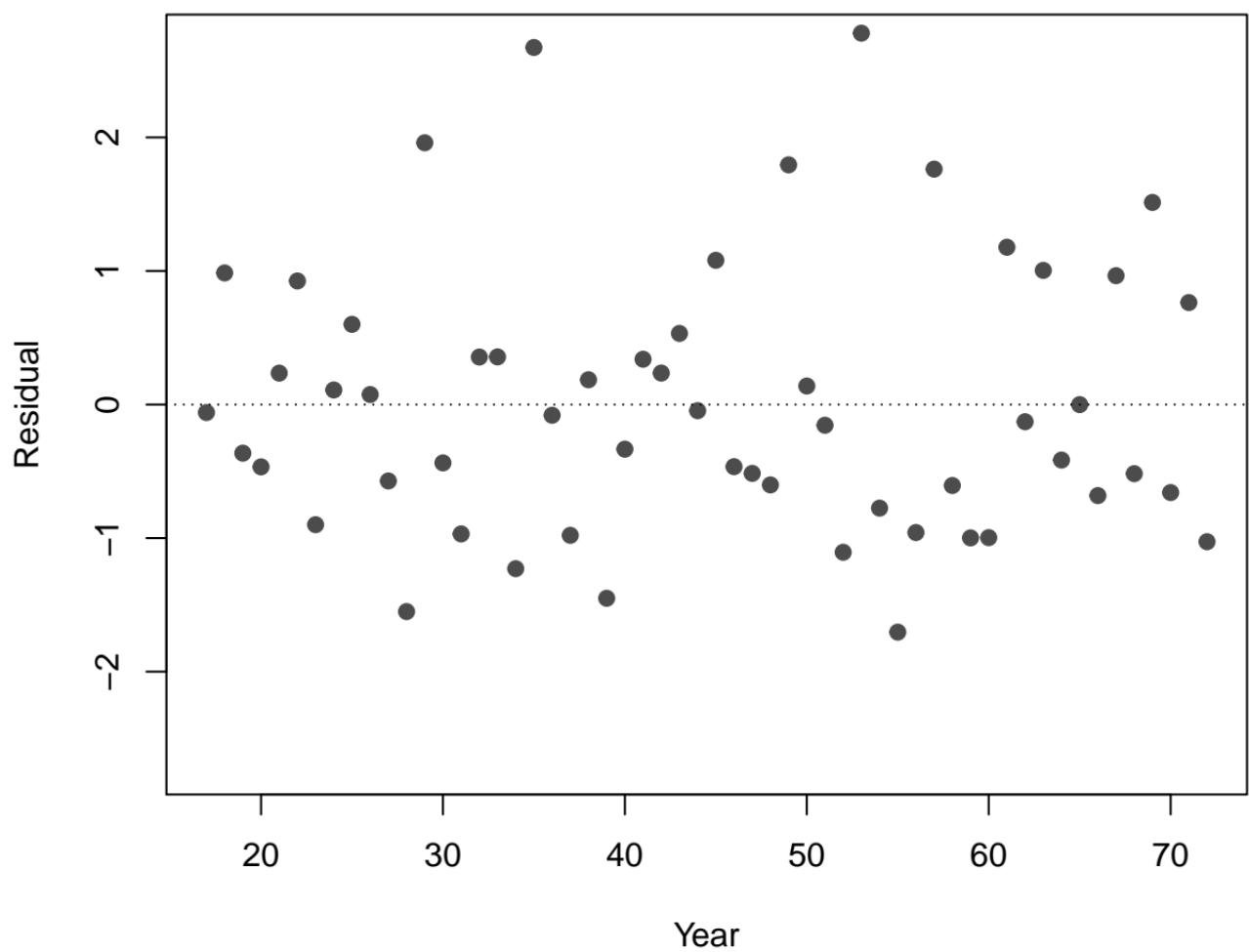


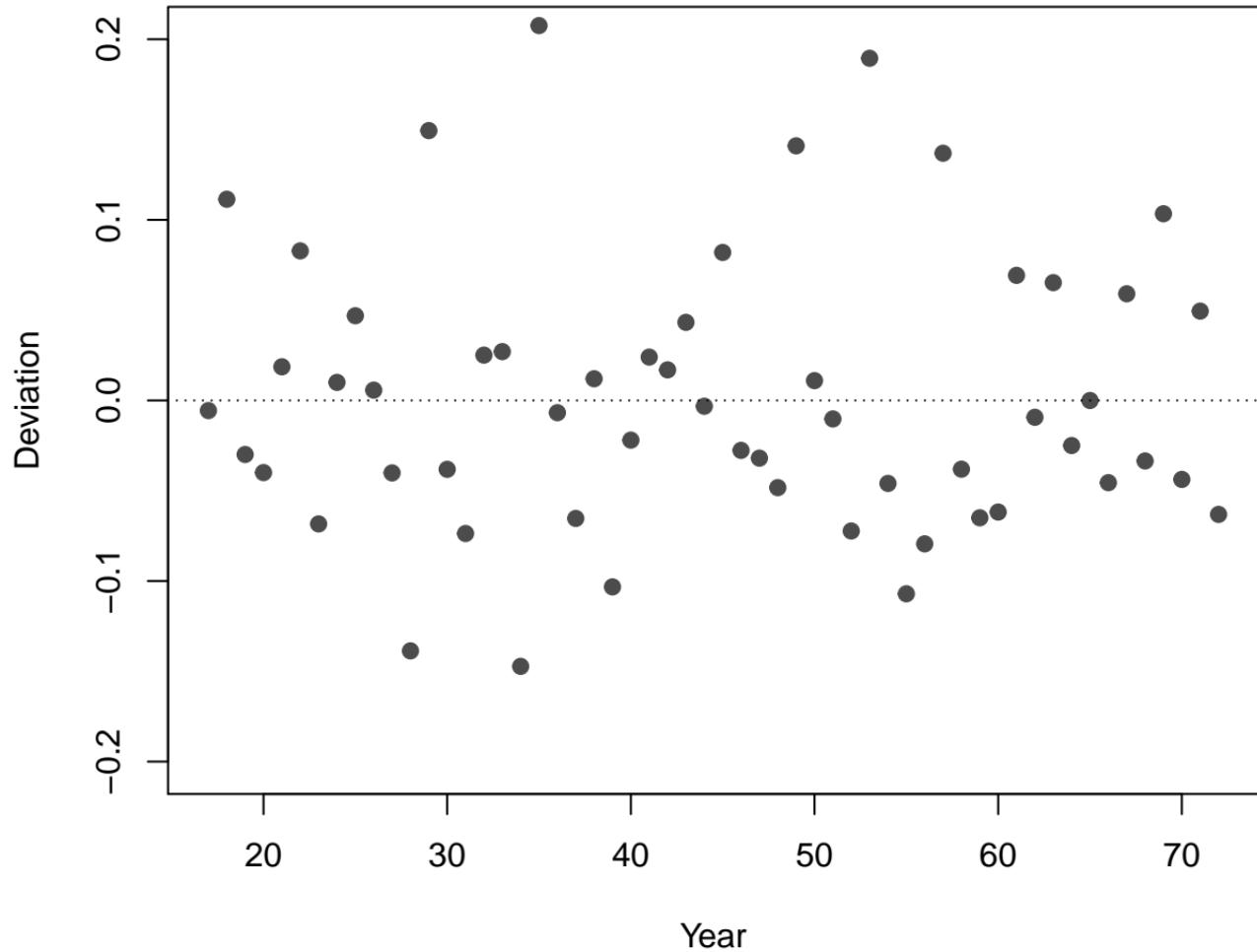


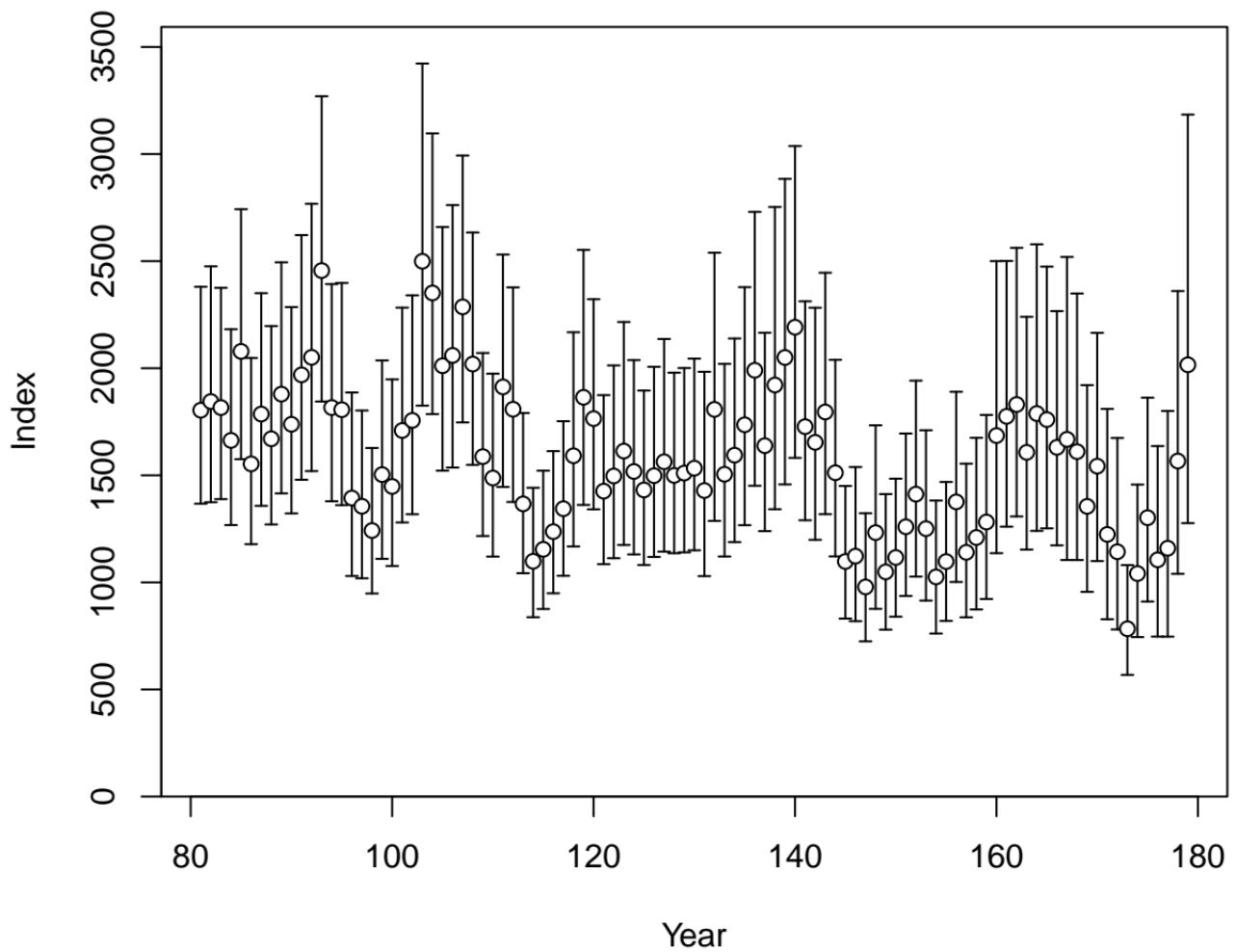


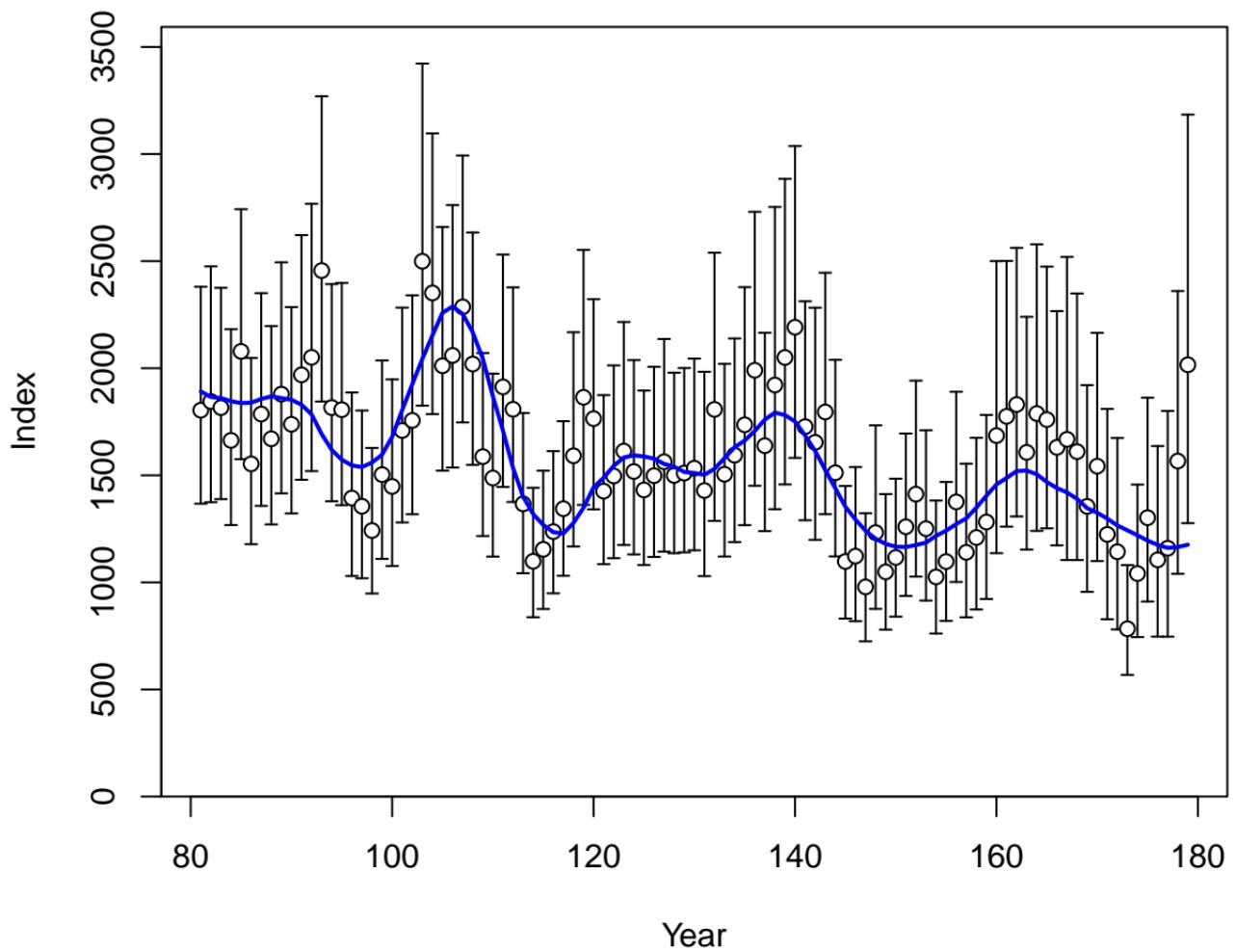


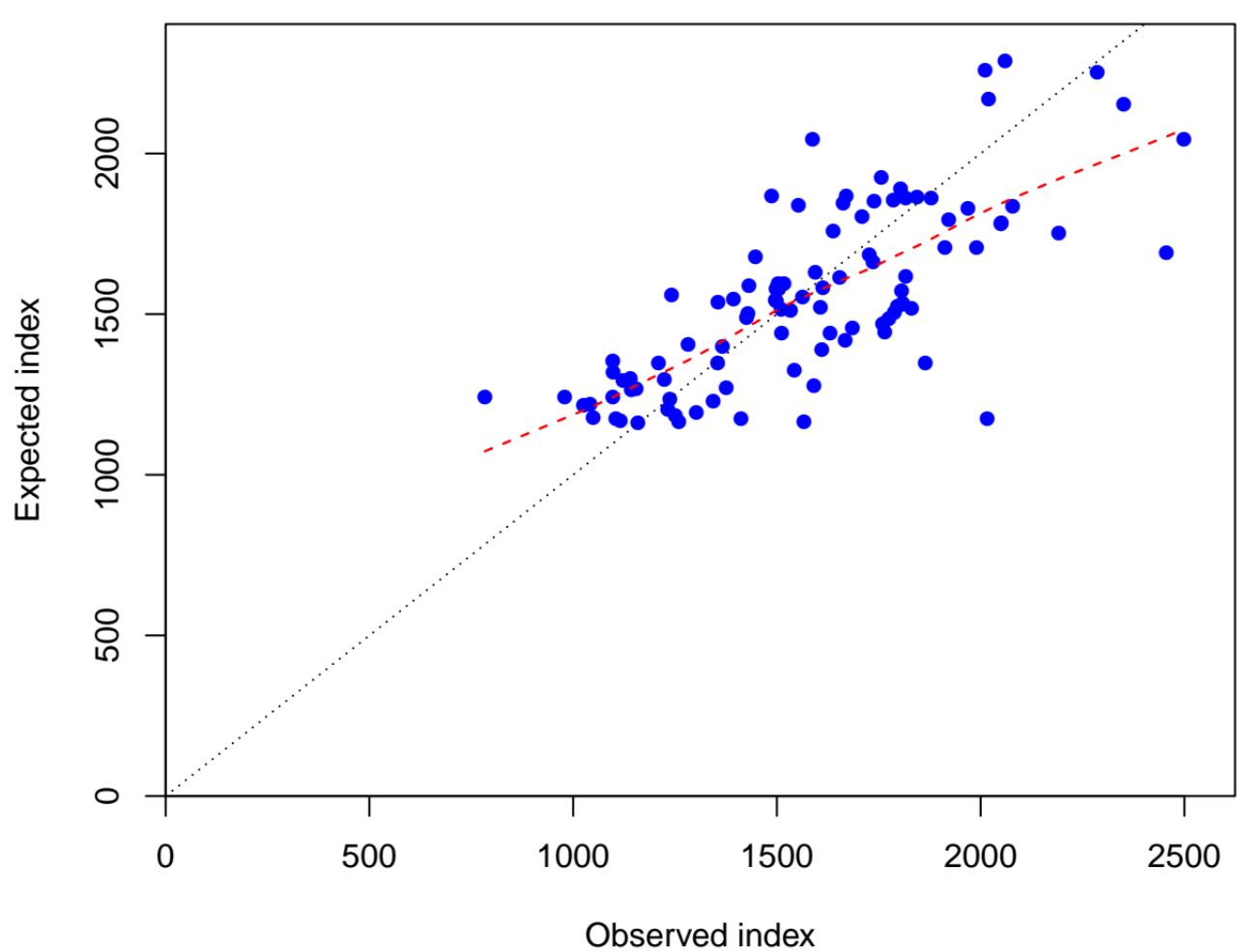


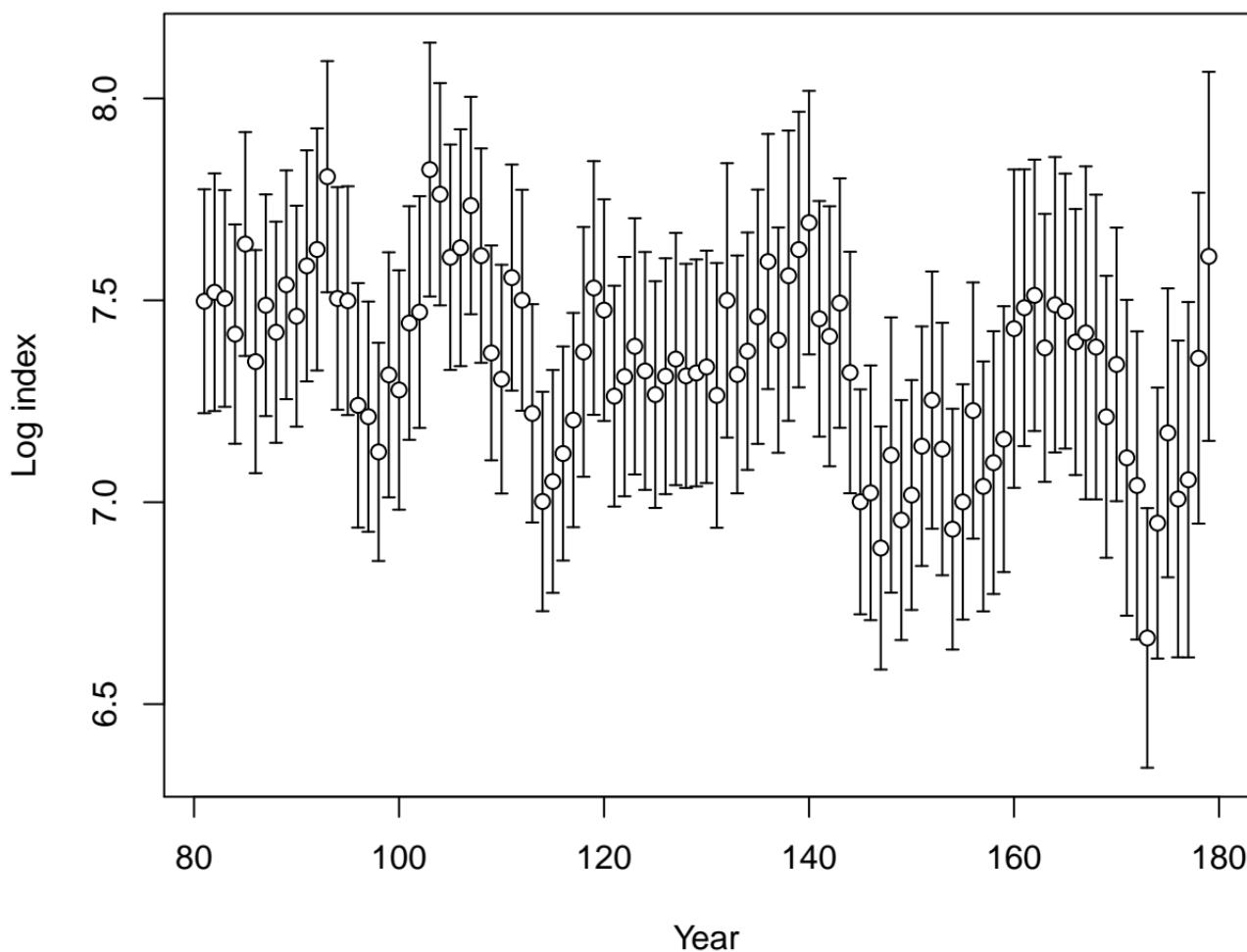


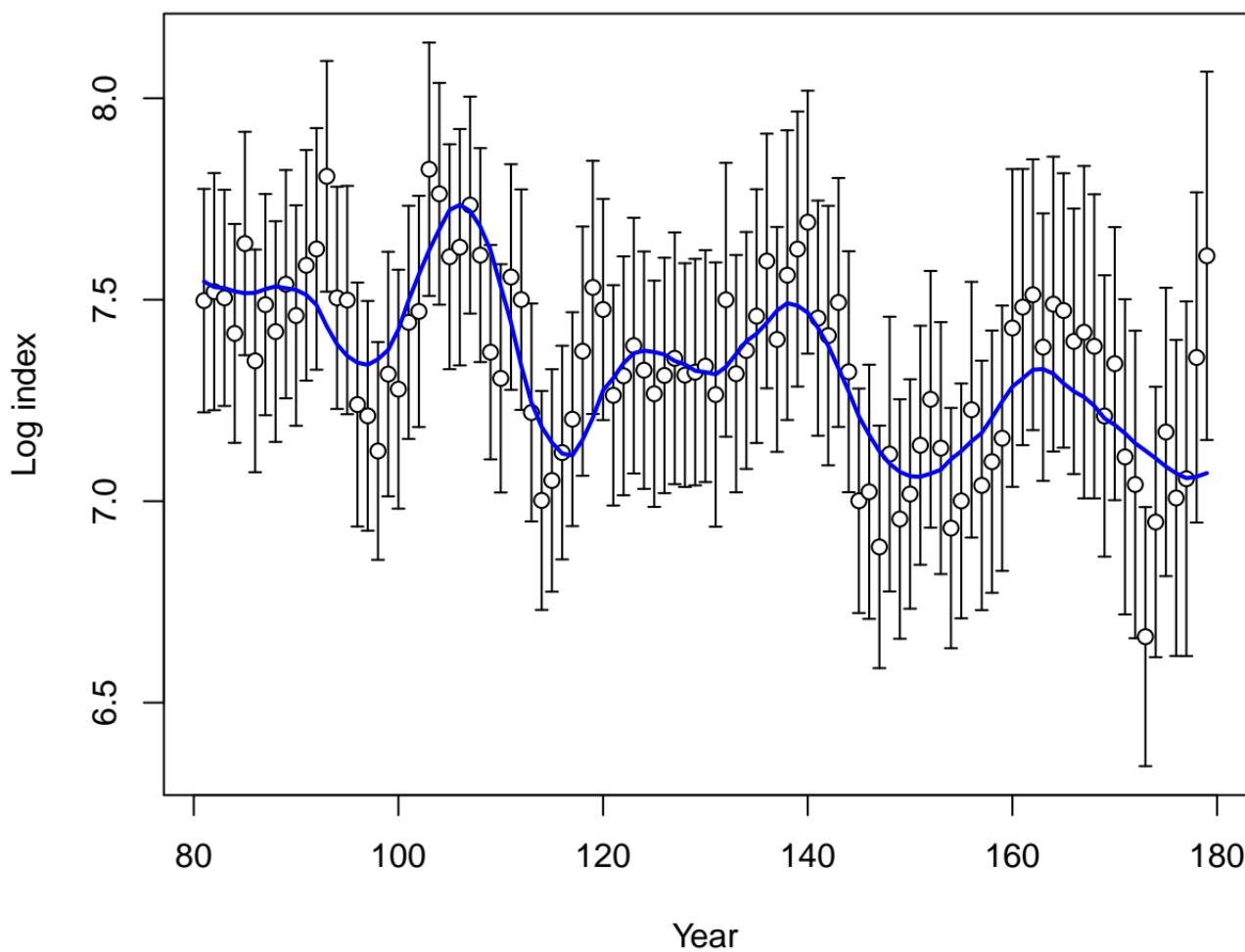










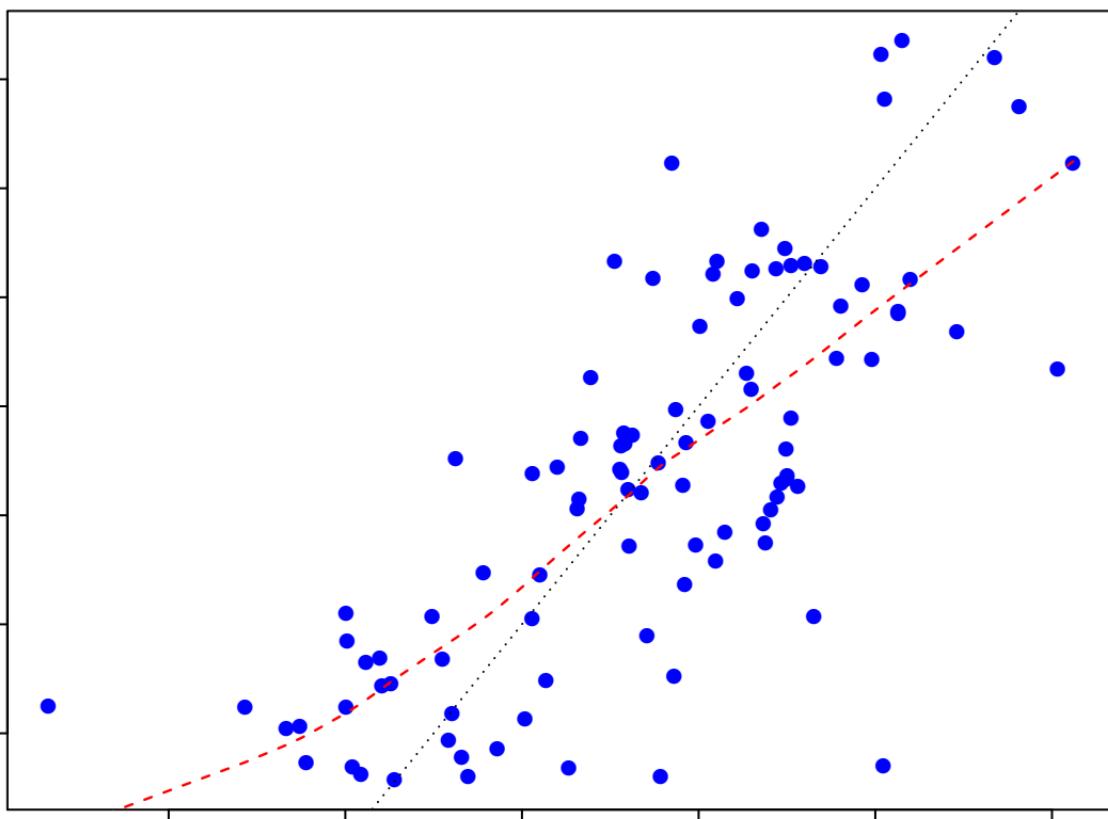


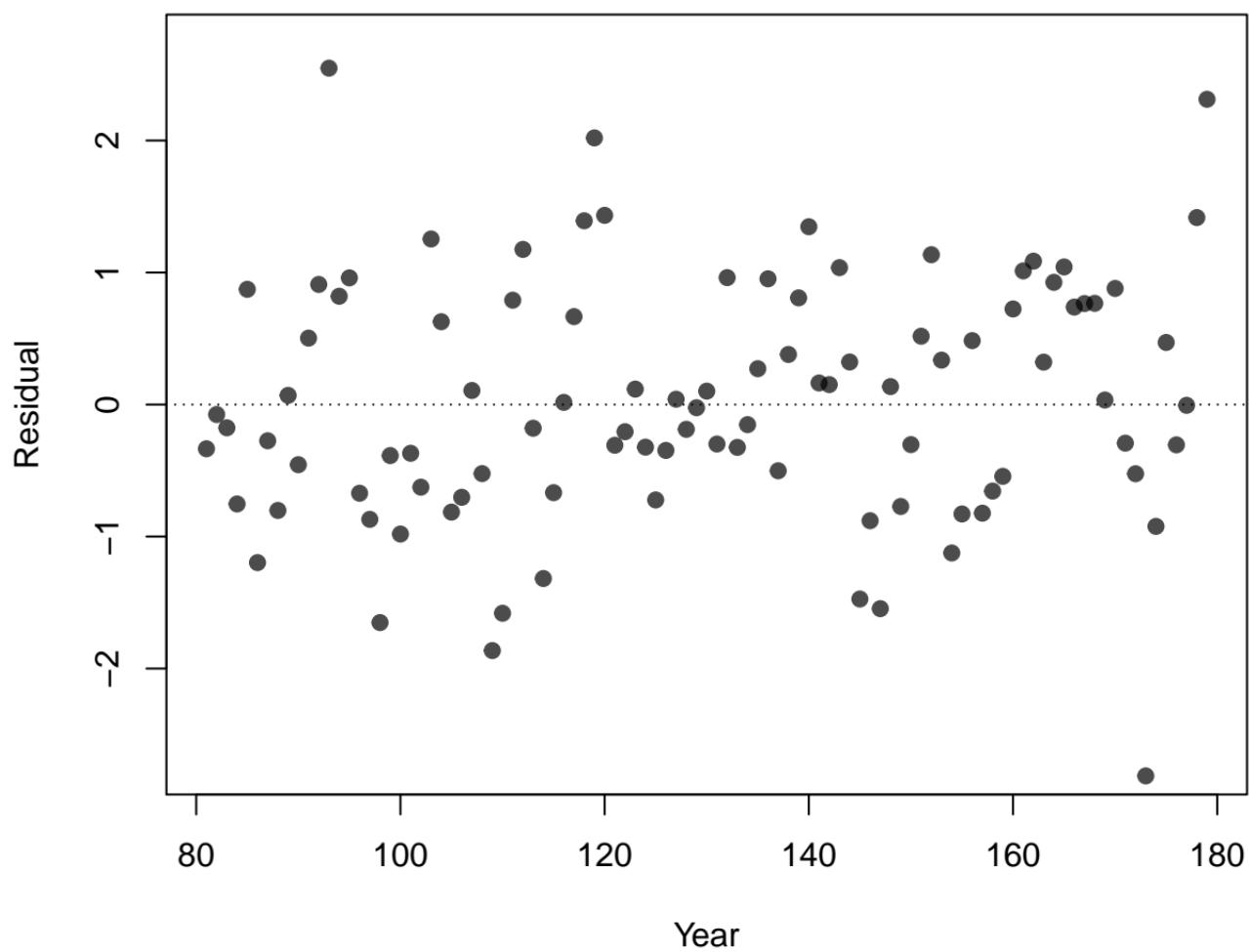
Log expected index

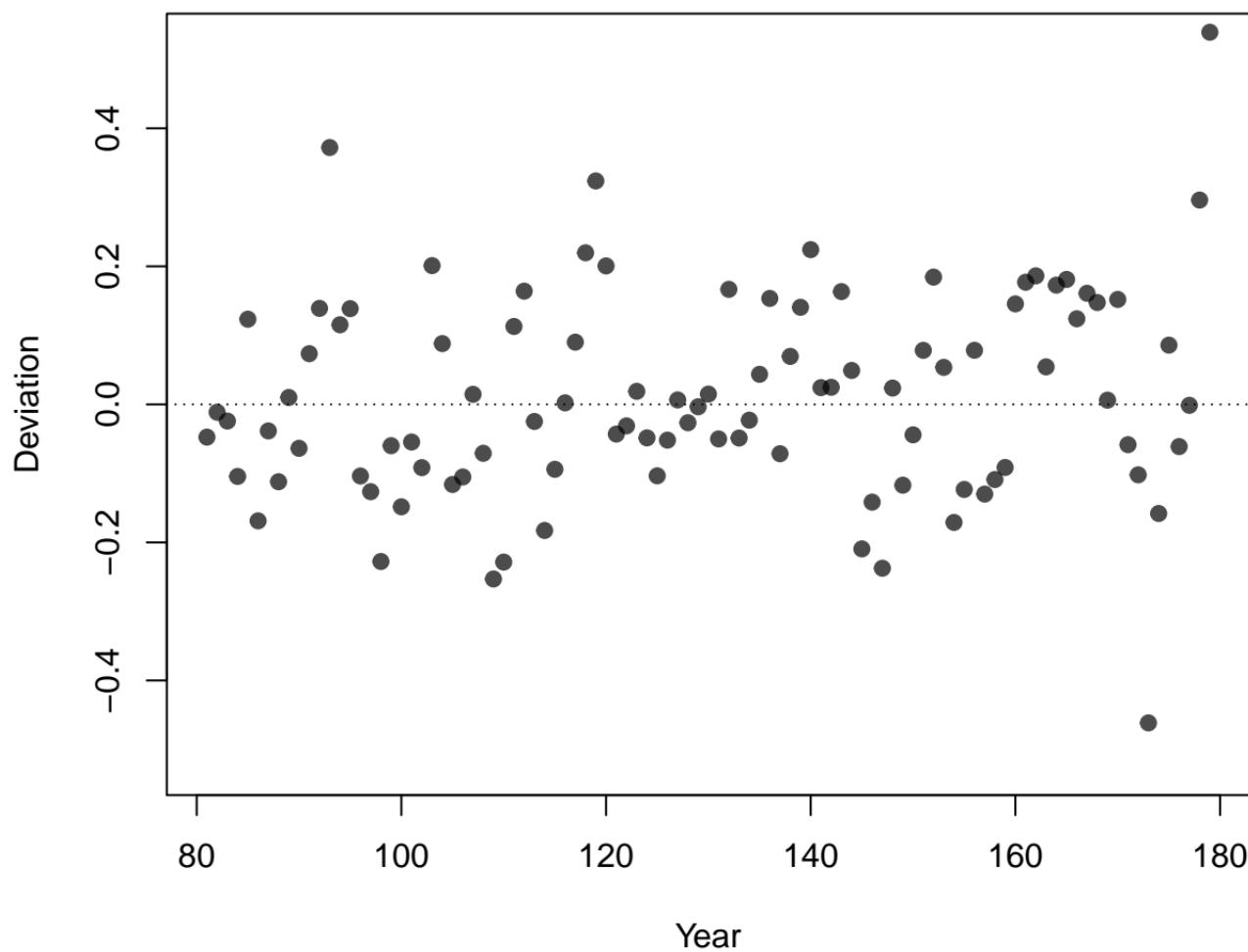
7.7  
7.6  
7.5  
7.4  
7.3  
7.2  
7.1

6.8 7.0 7.2 7.4 7.6 7.8

Log observed index







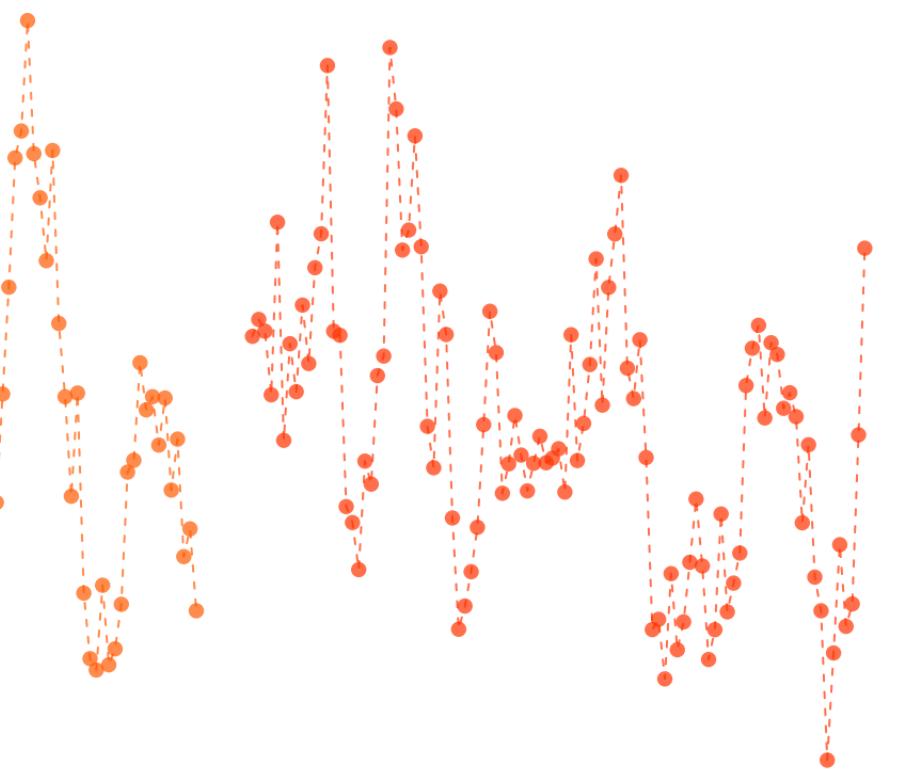
Standardized index

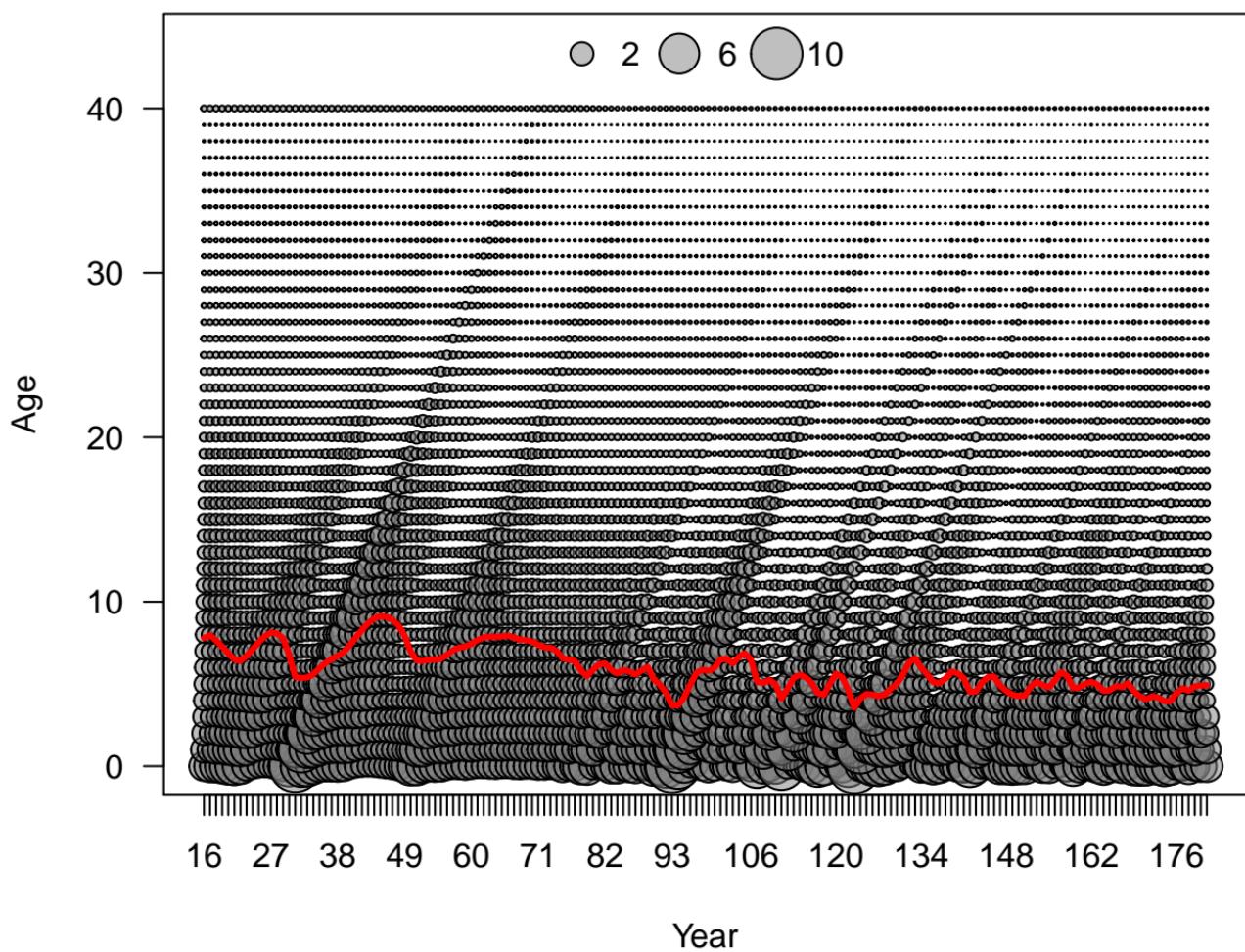
1.6  
1.4  
1.2  
1.0  
0.8  
0.6

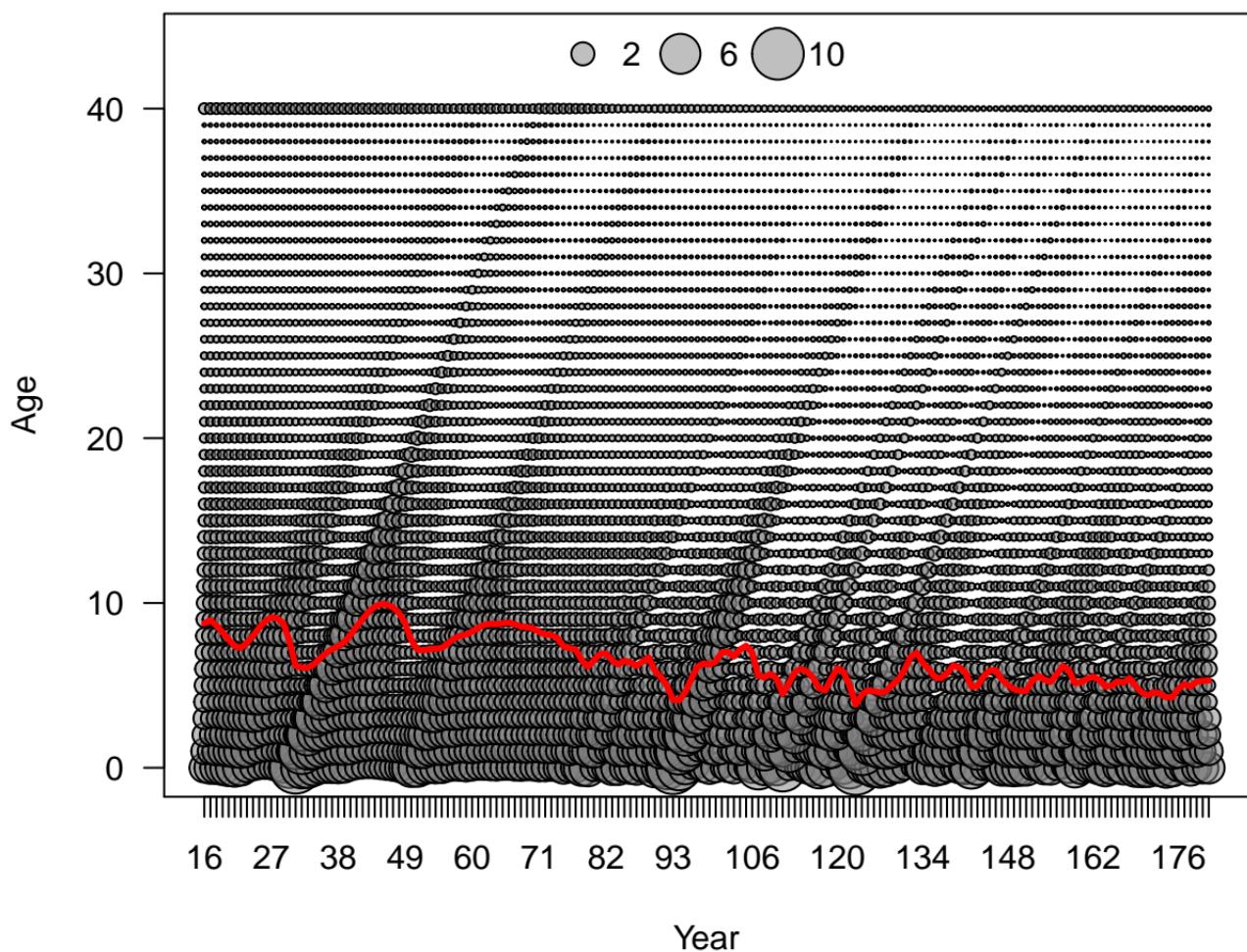
50

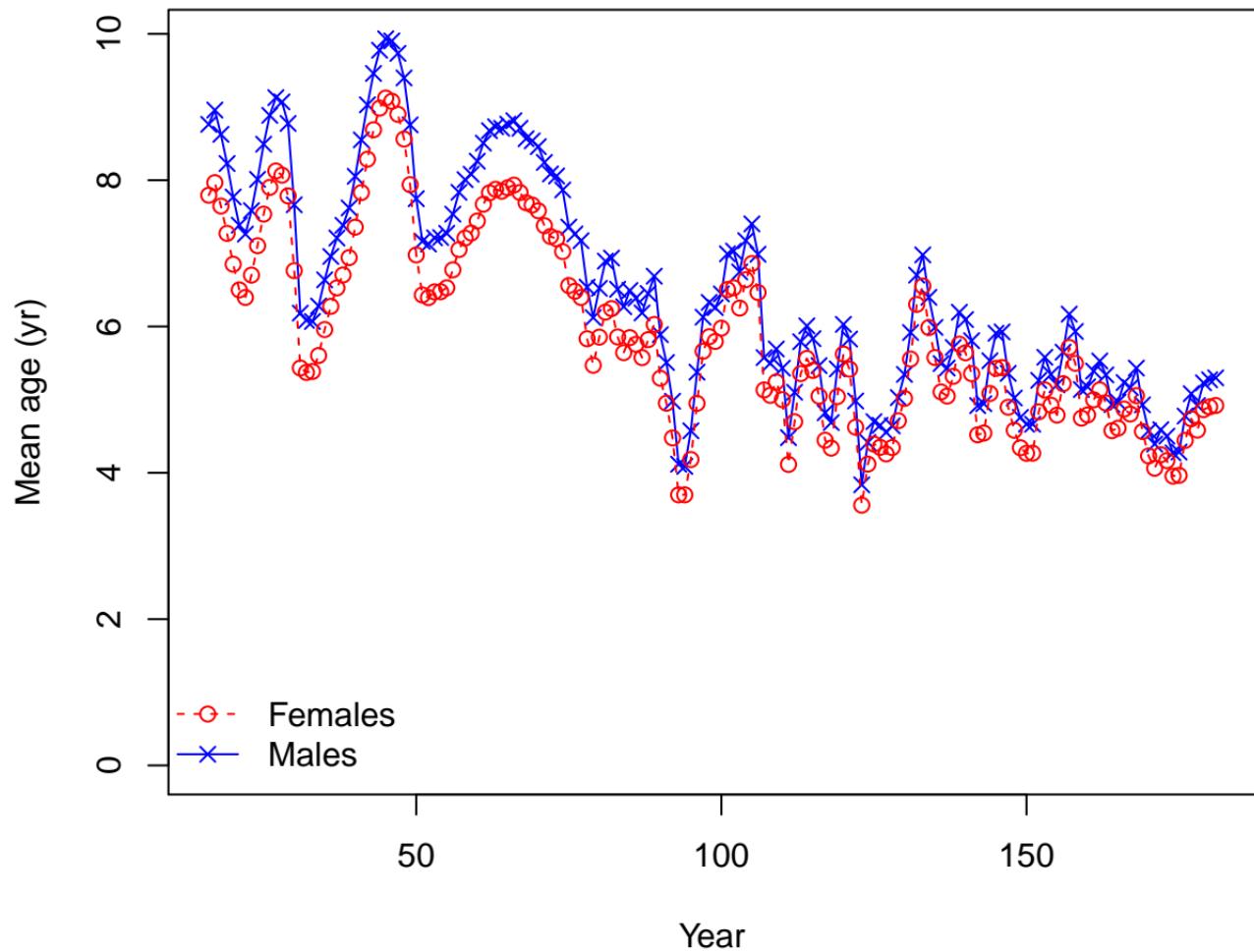
Year

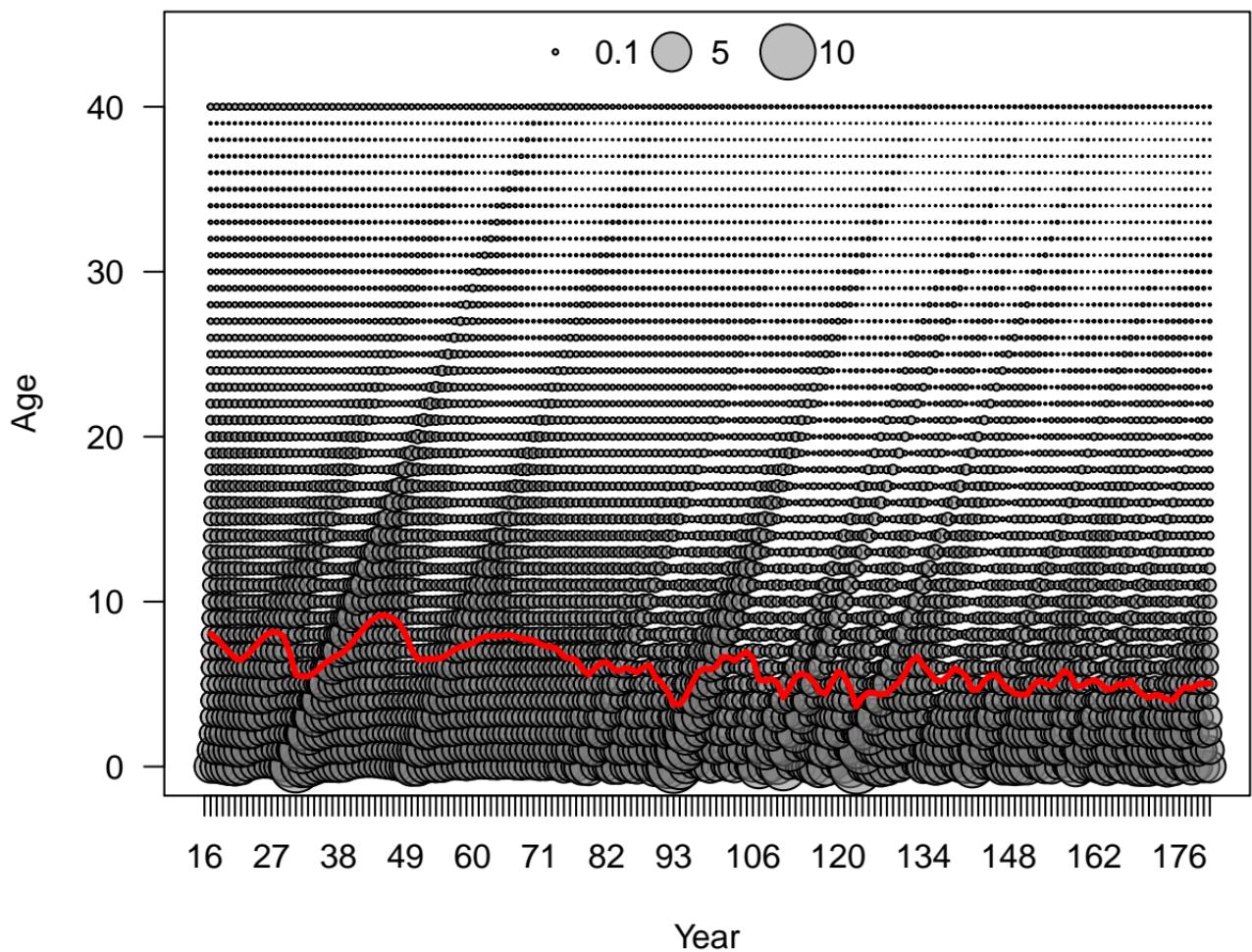
100  
150

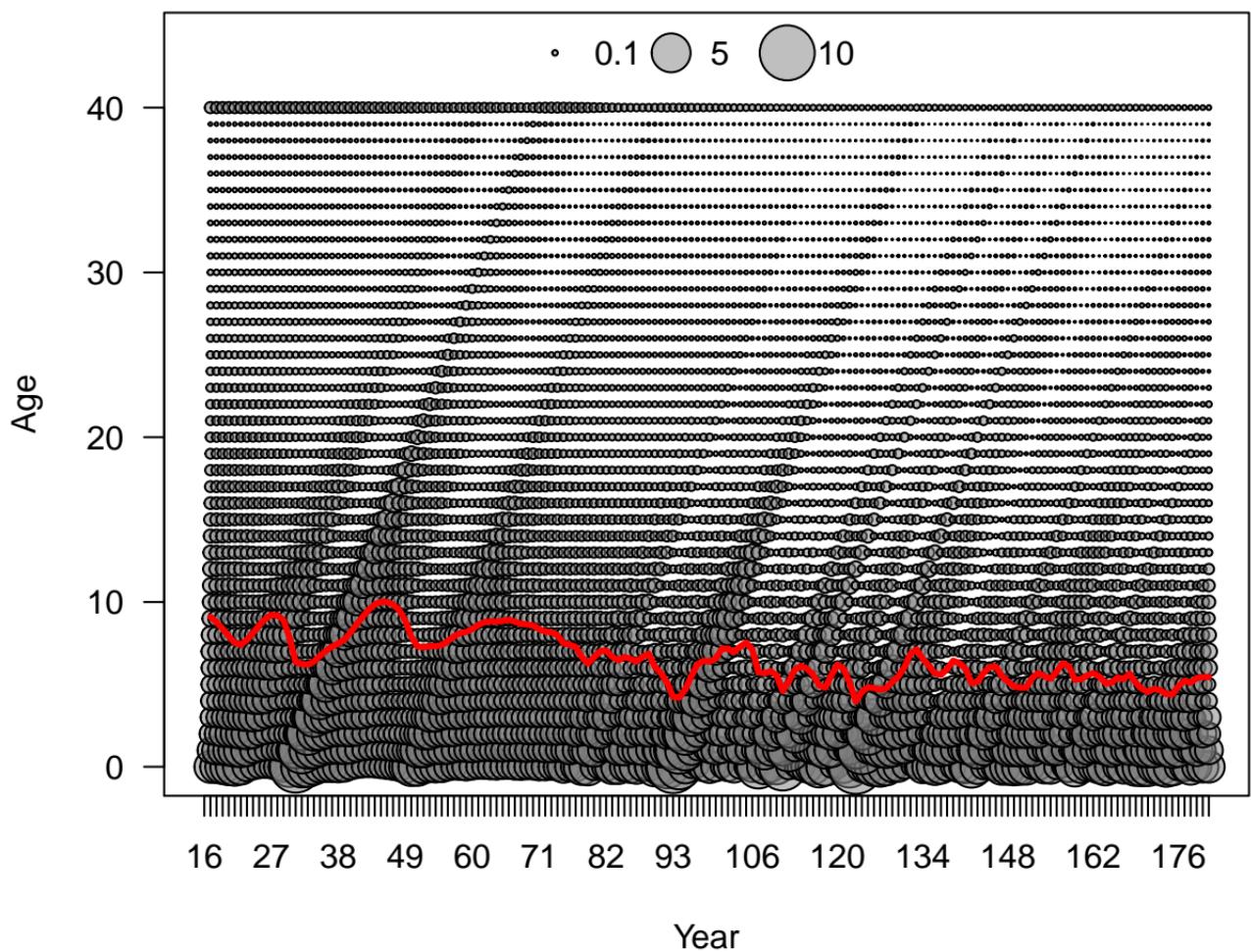












Mean age (yr)

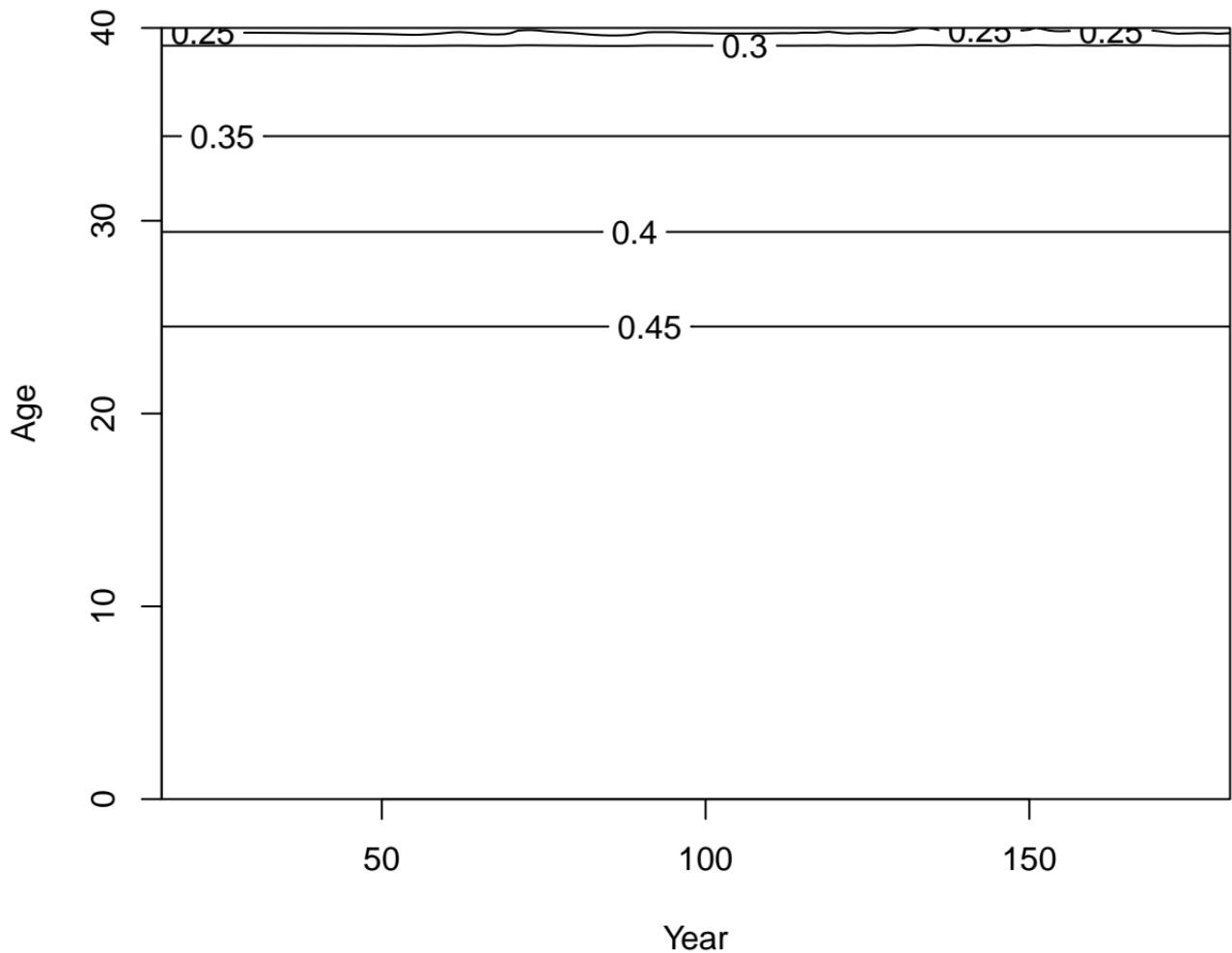
10  
8  
6  
4  
2  
0

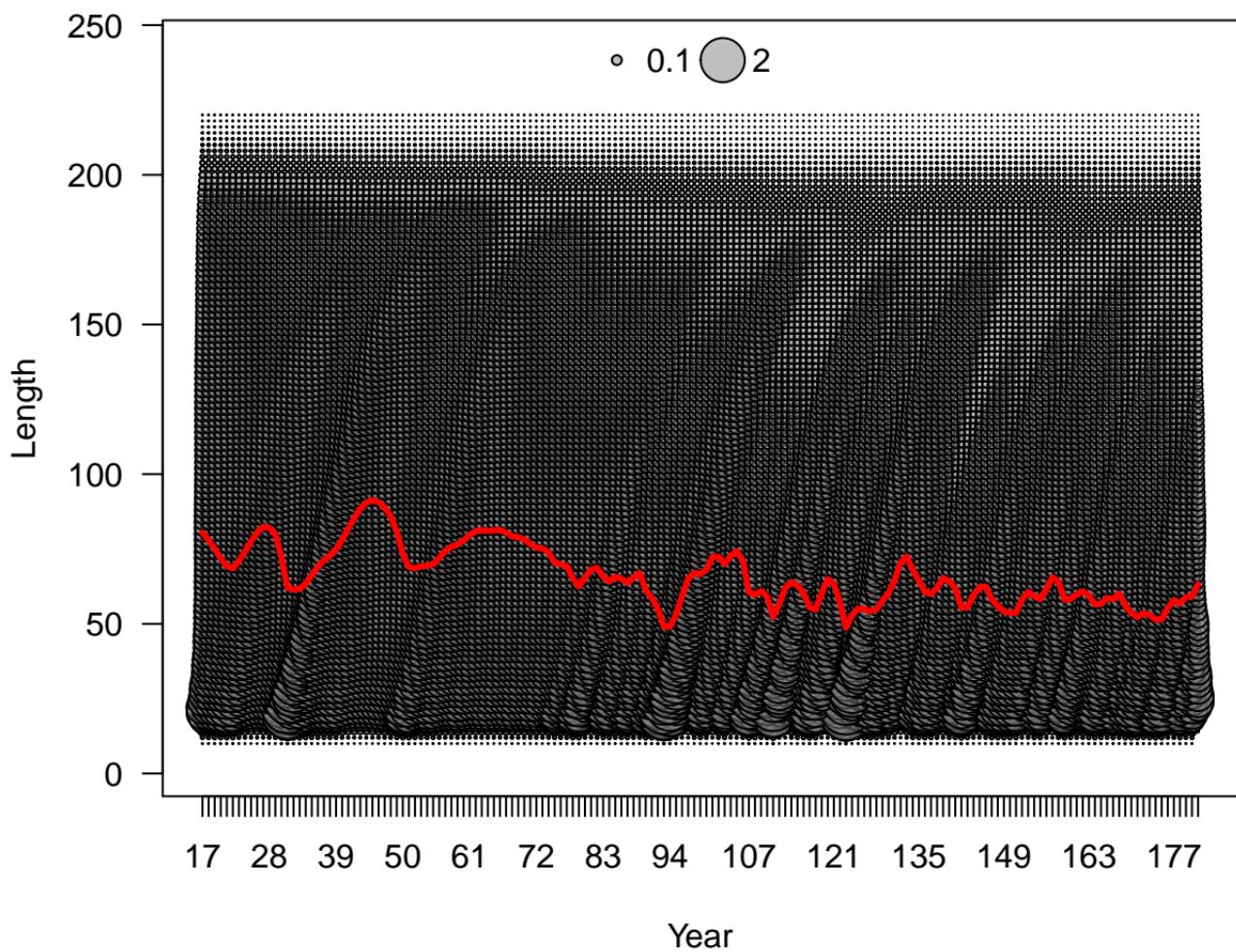
-○- Females  
—×— Males

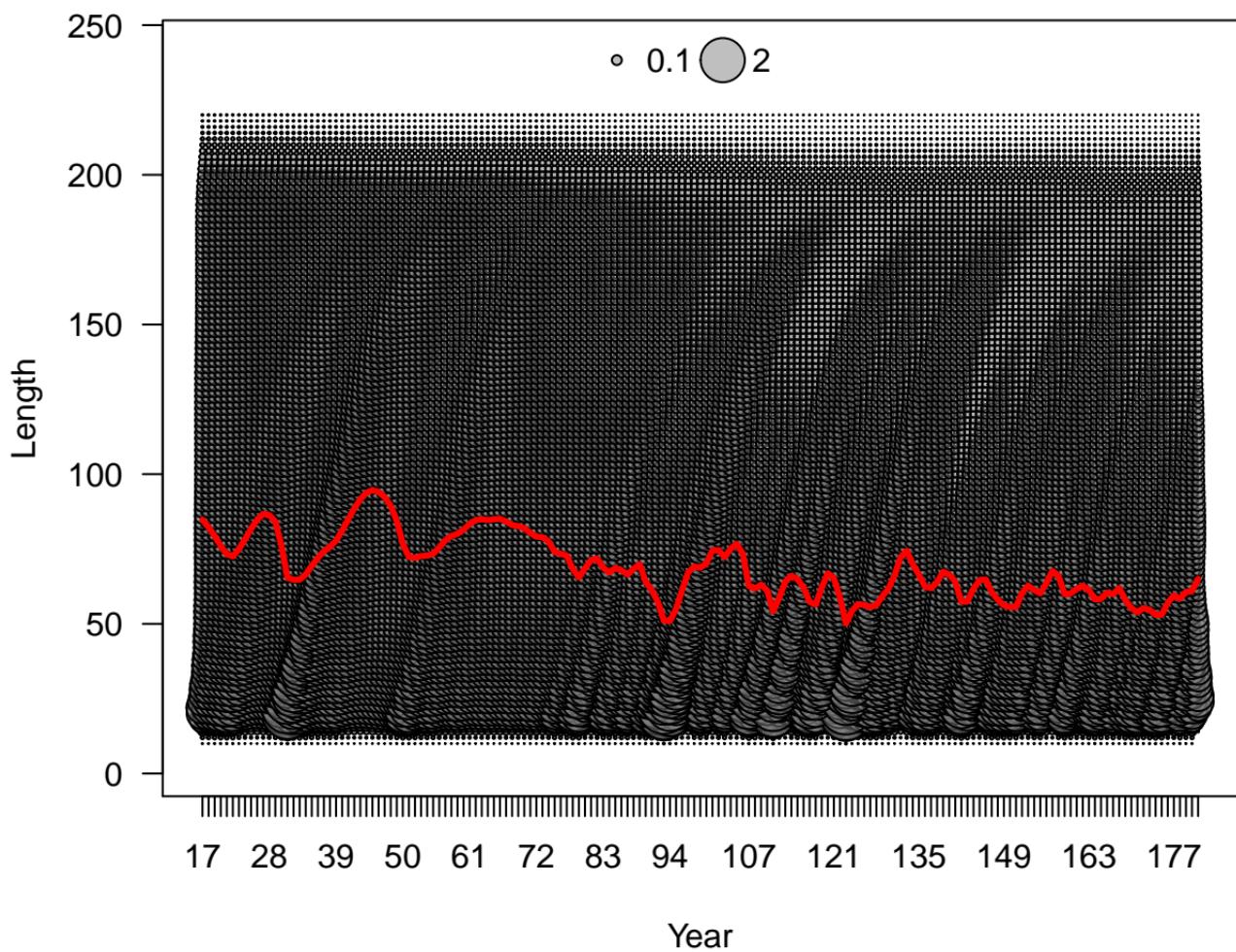
50

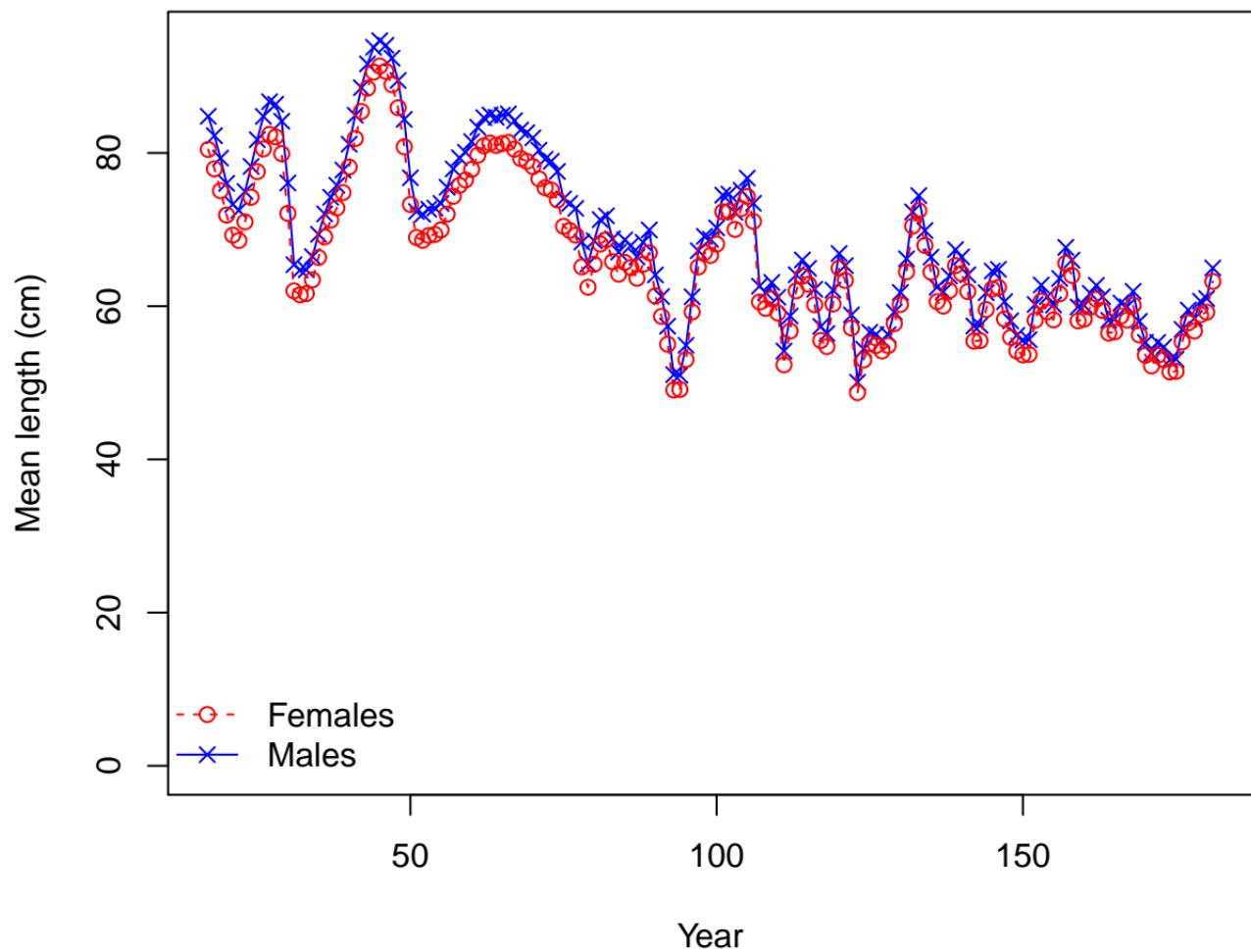
Year

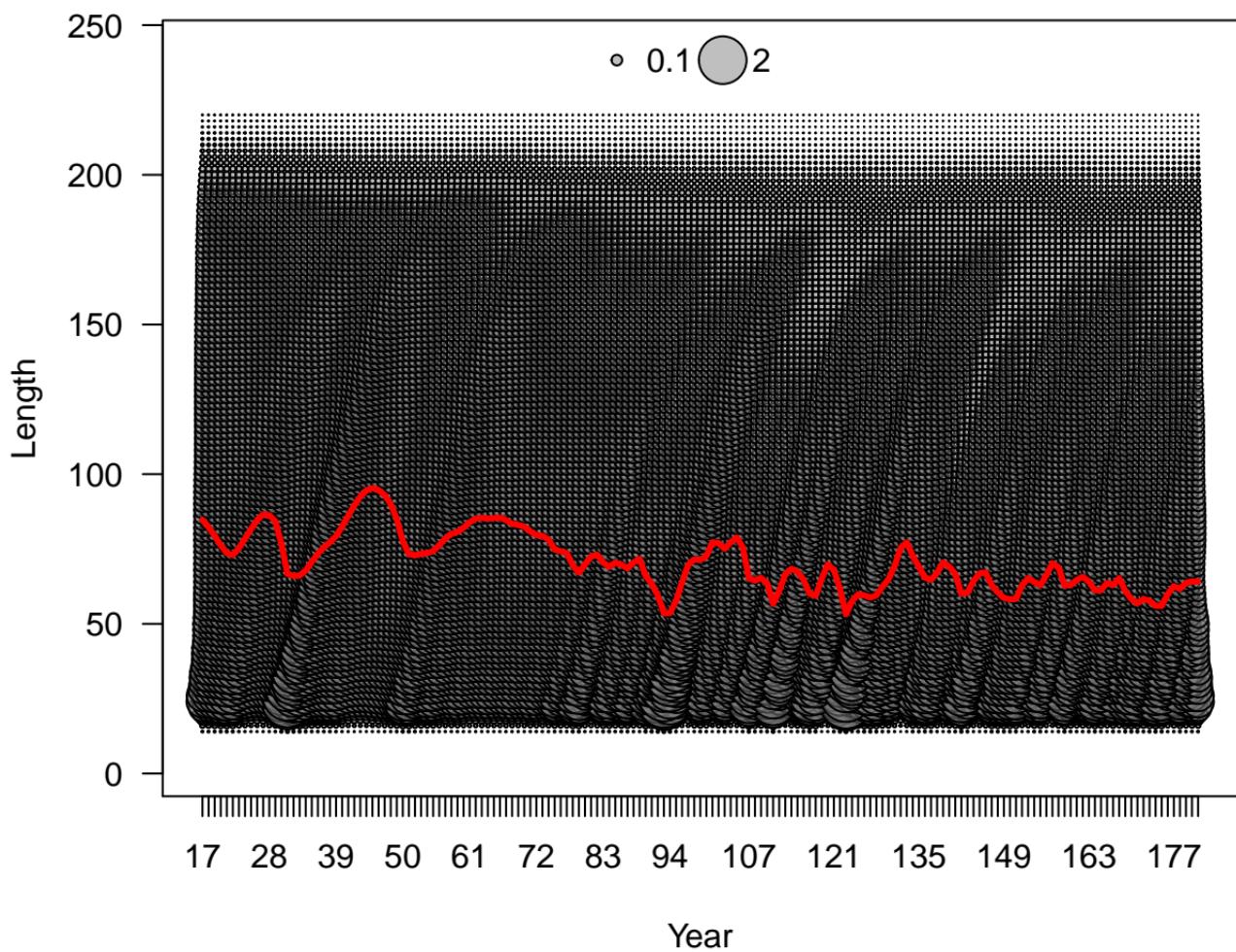
100  
150

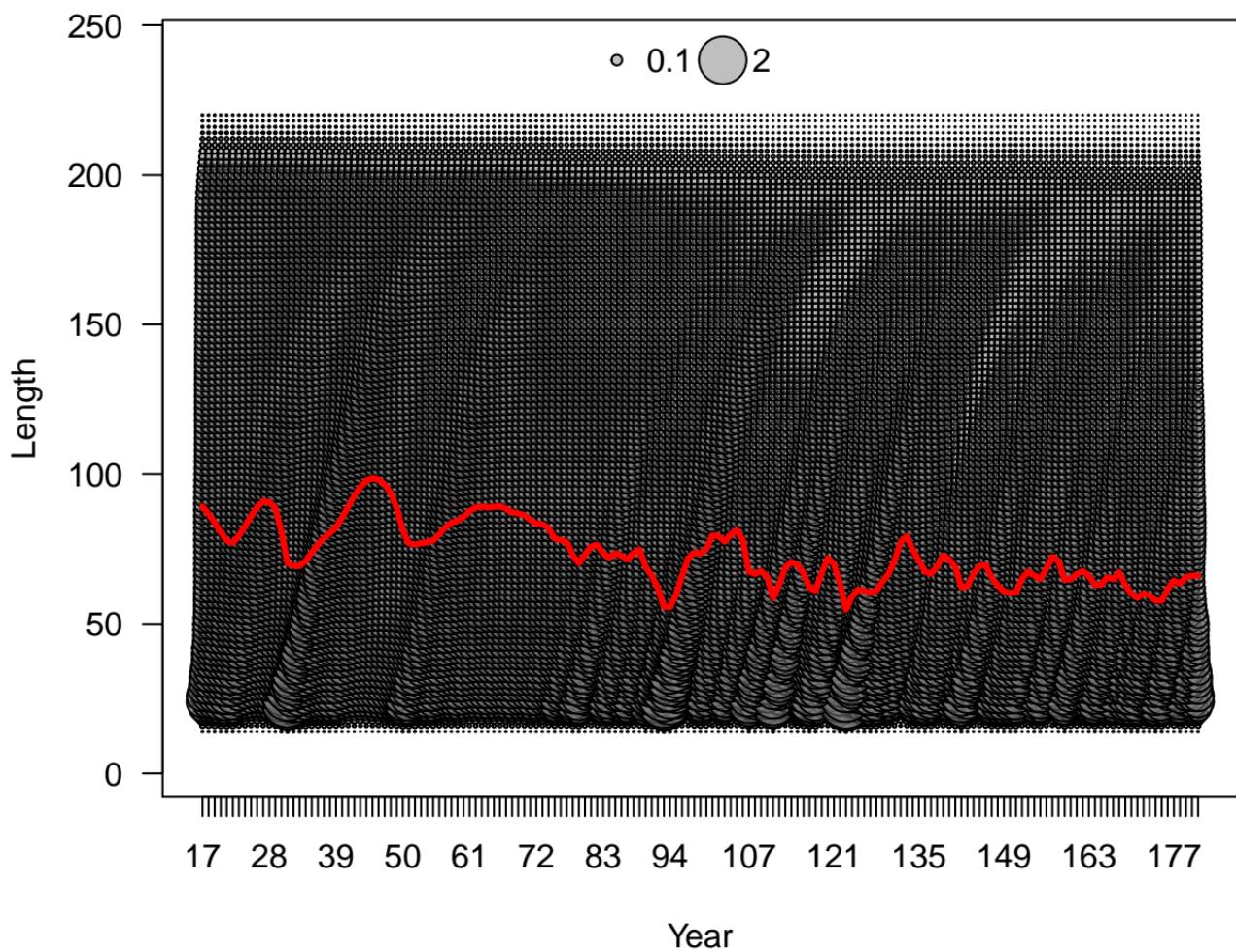


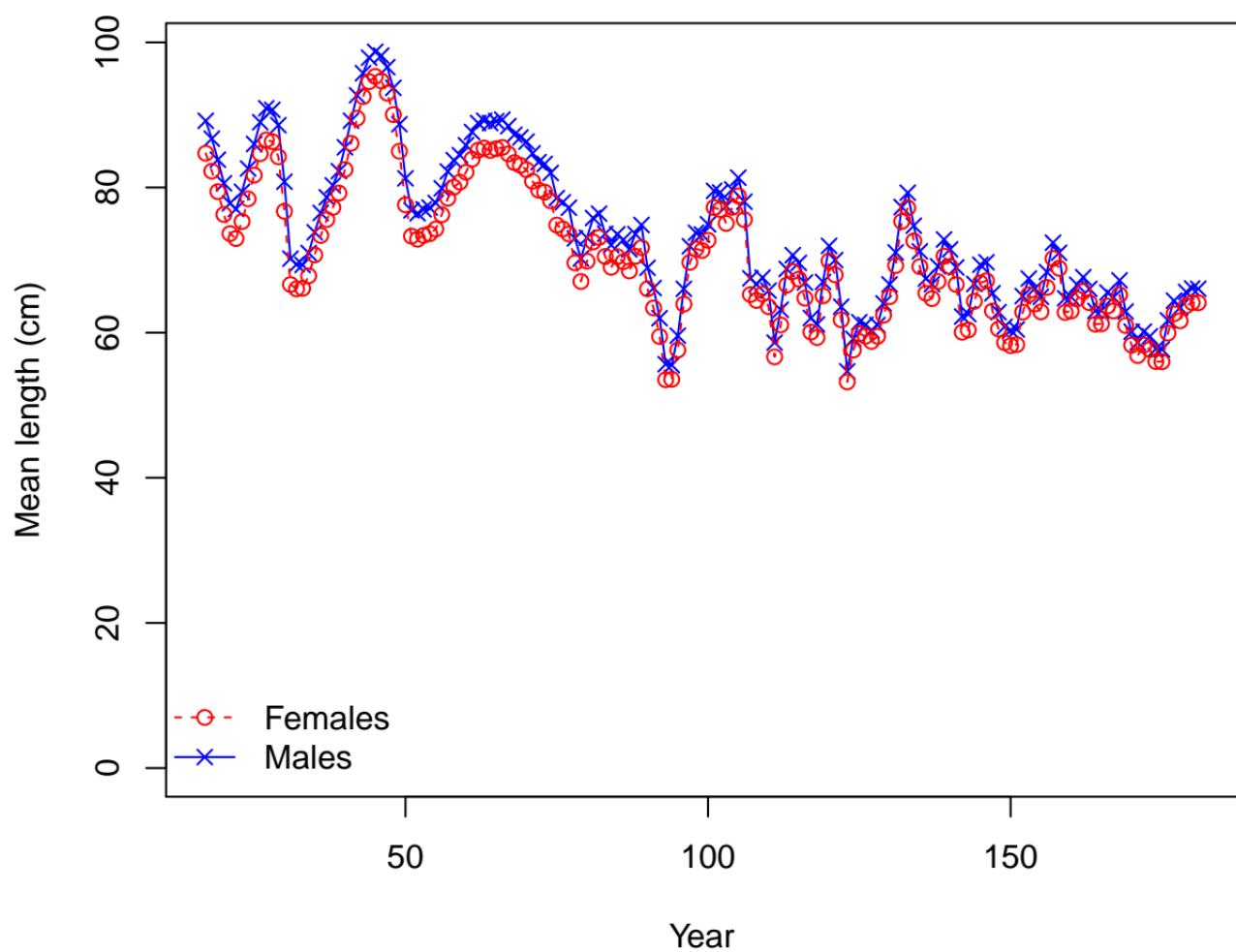


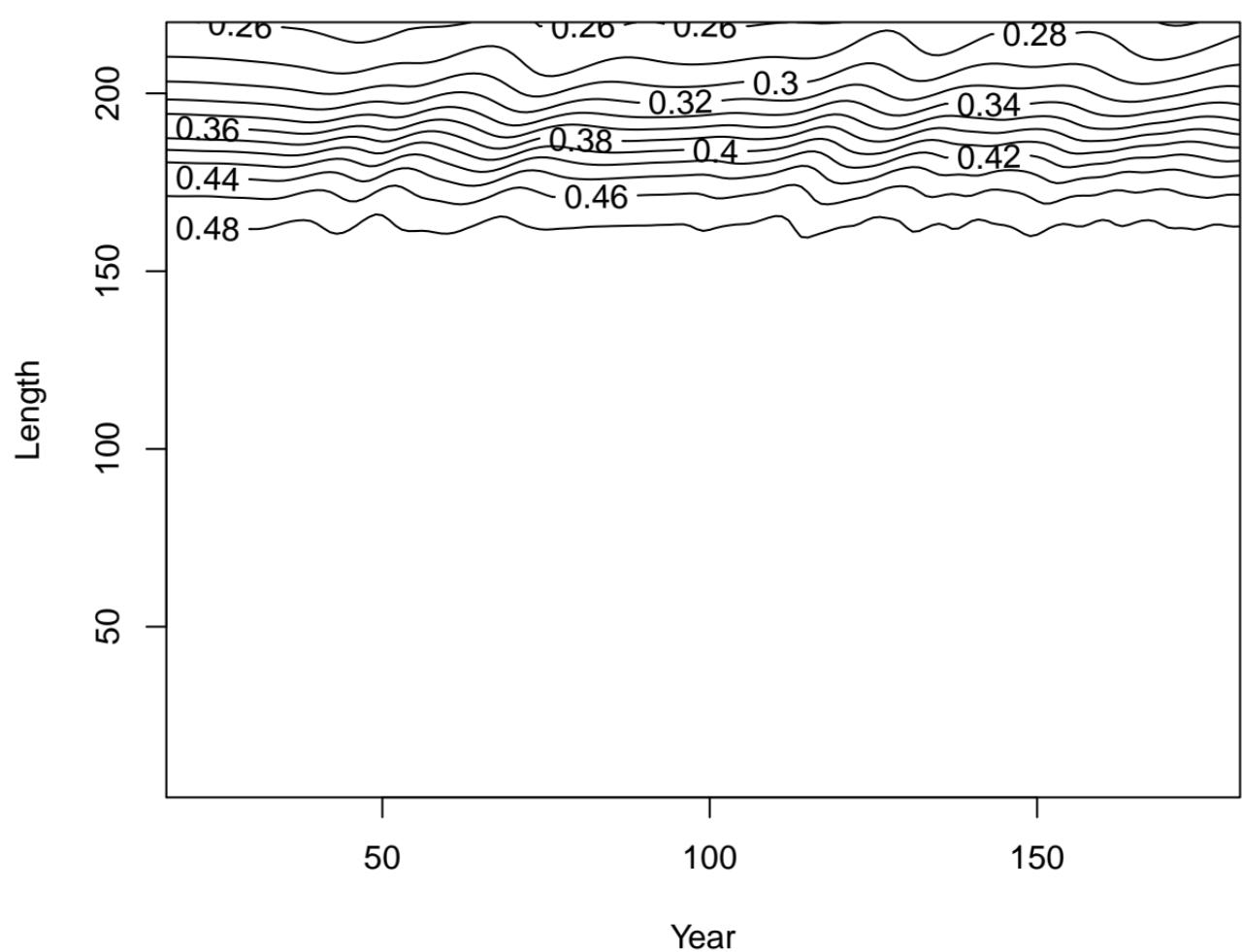




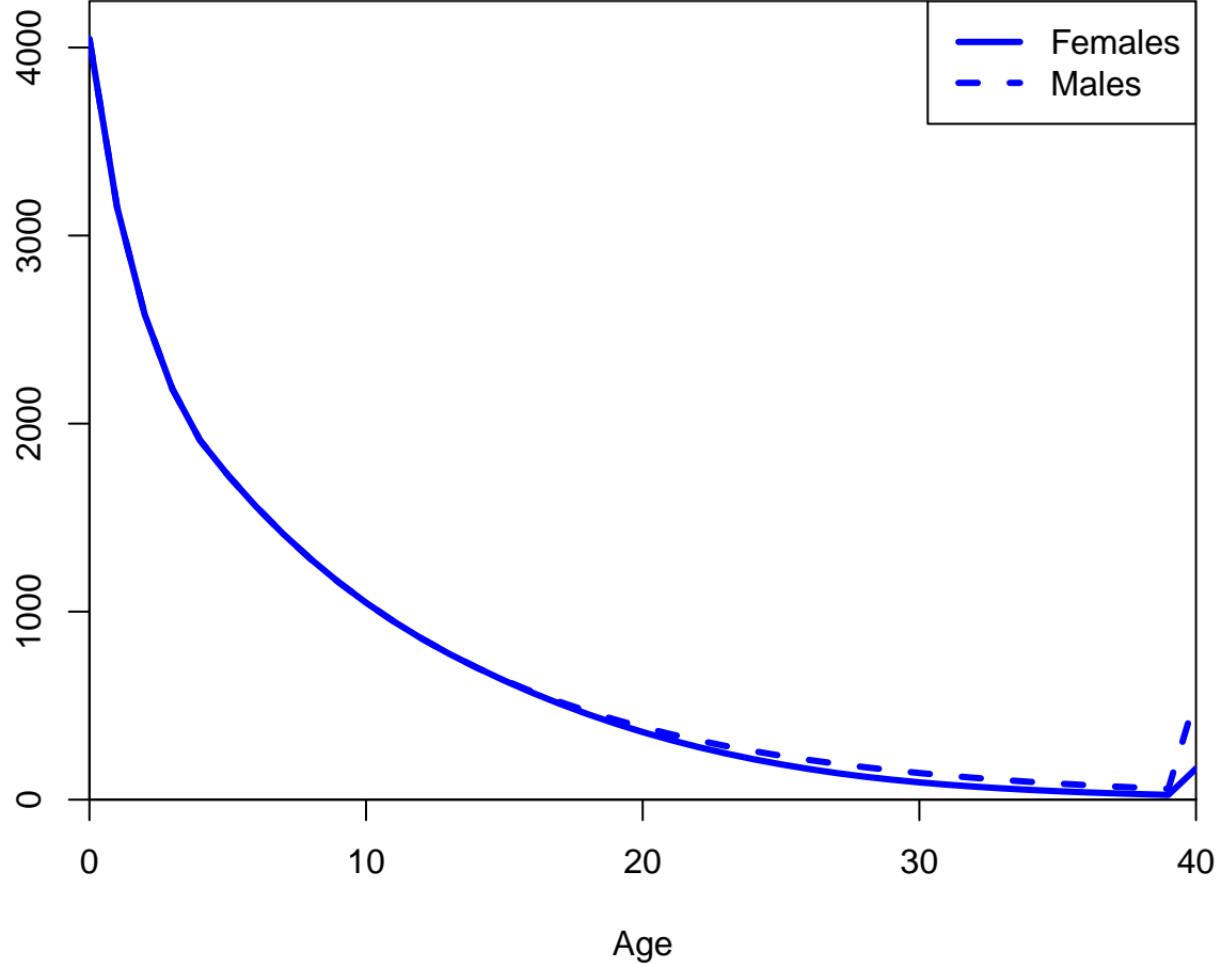


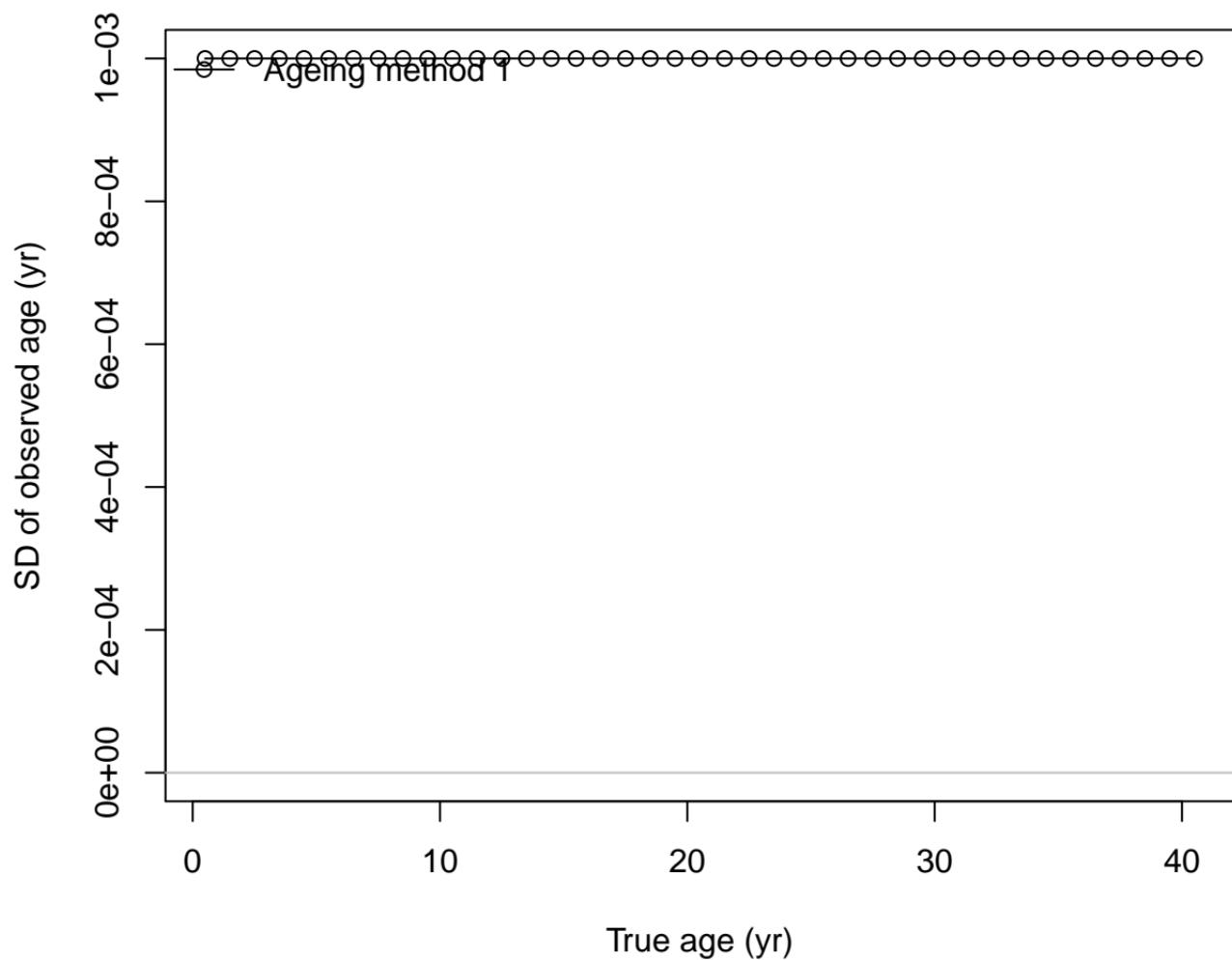




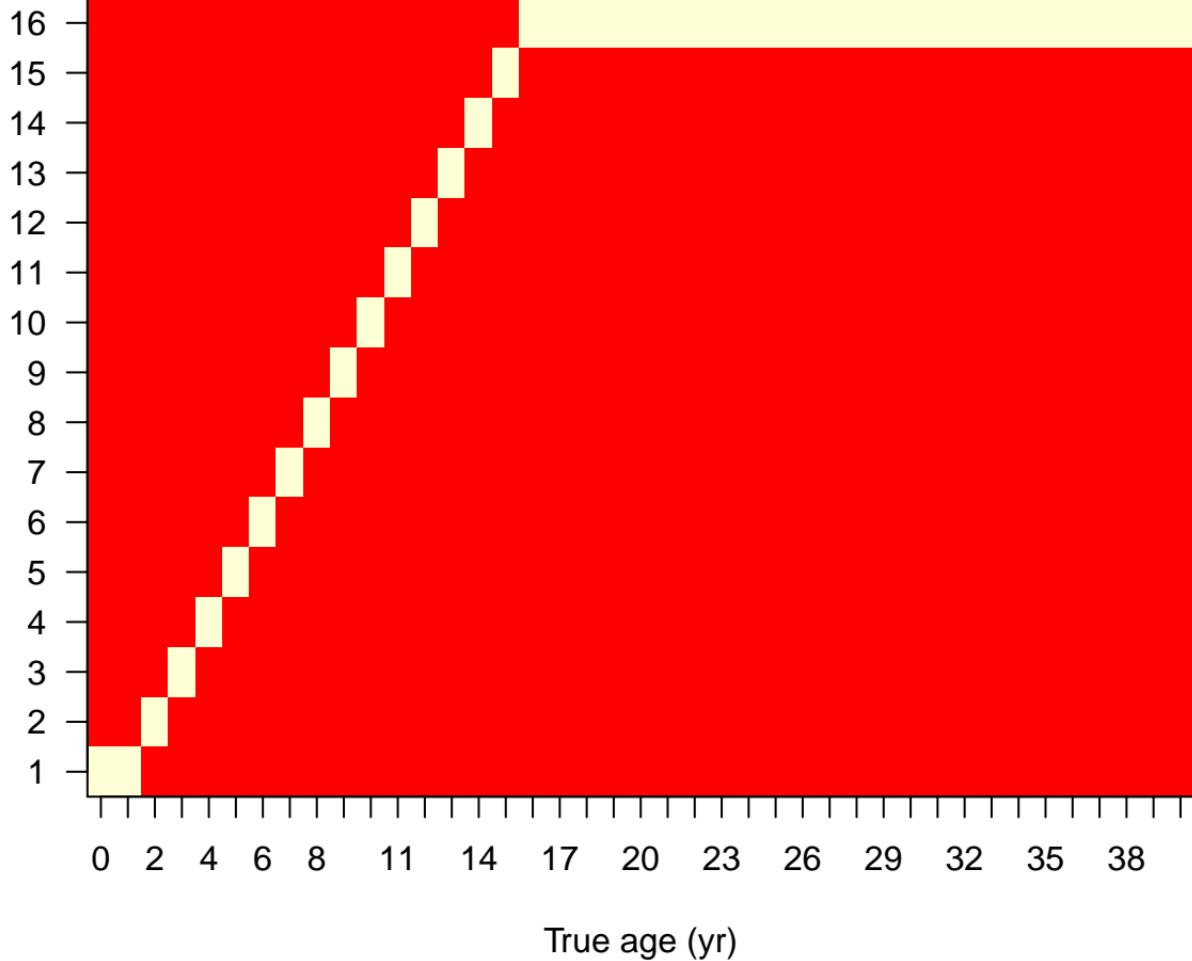


Numbers at age at equilibrium

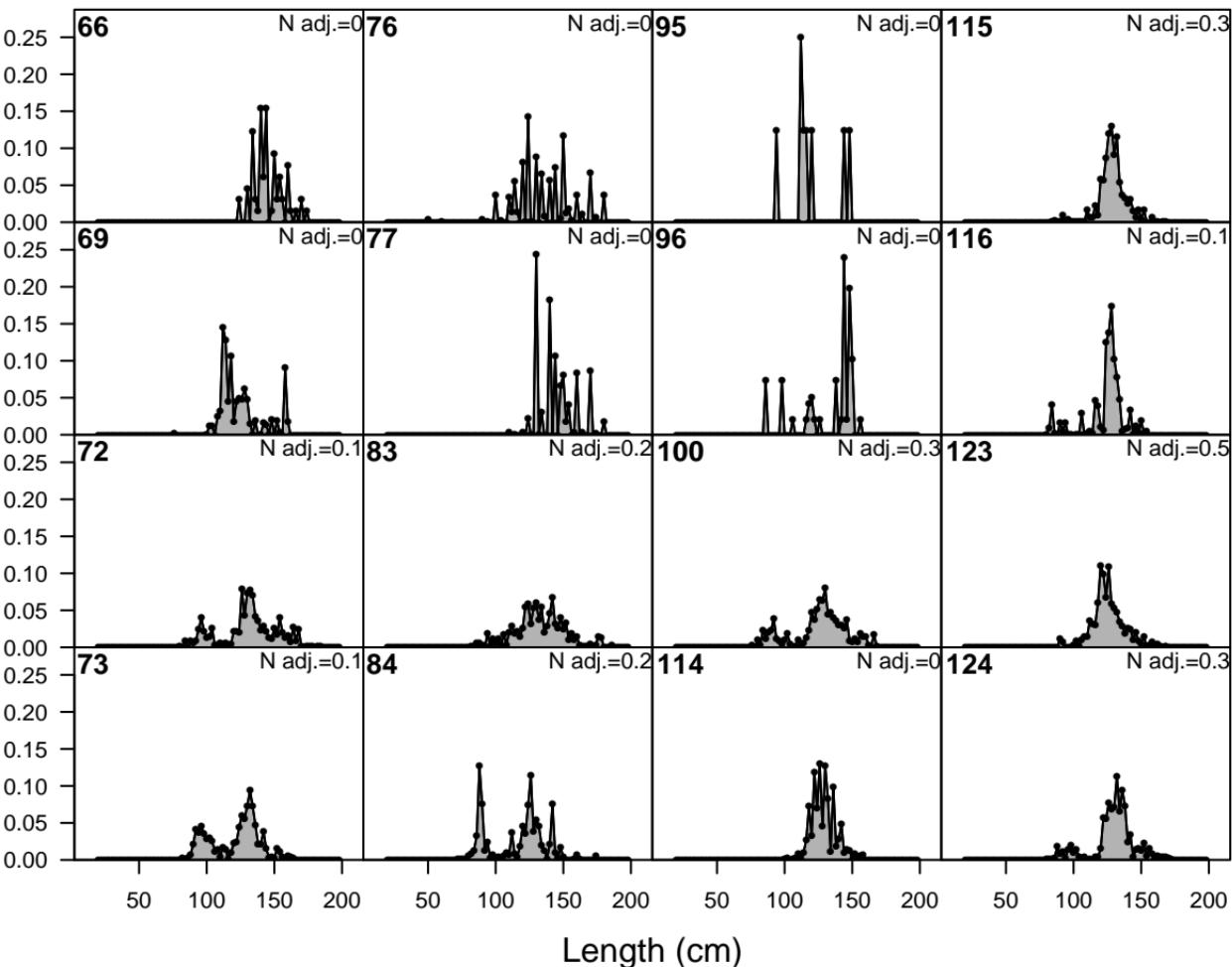




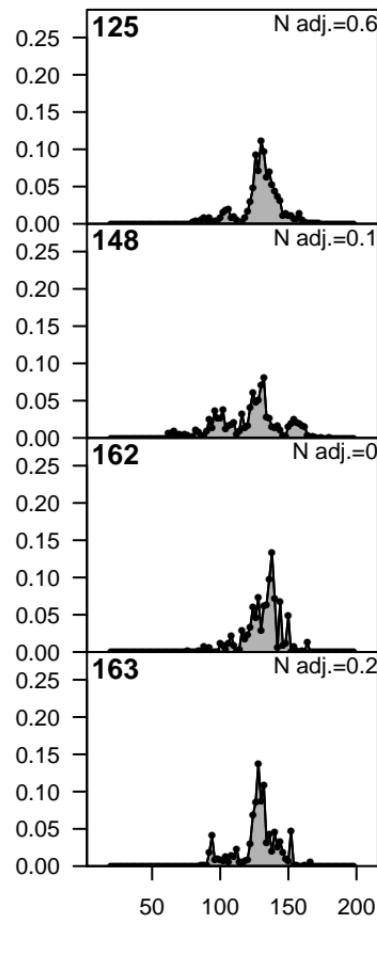
Observed age (yr)

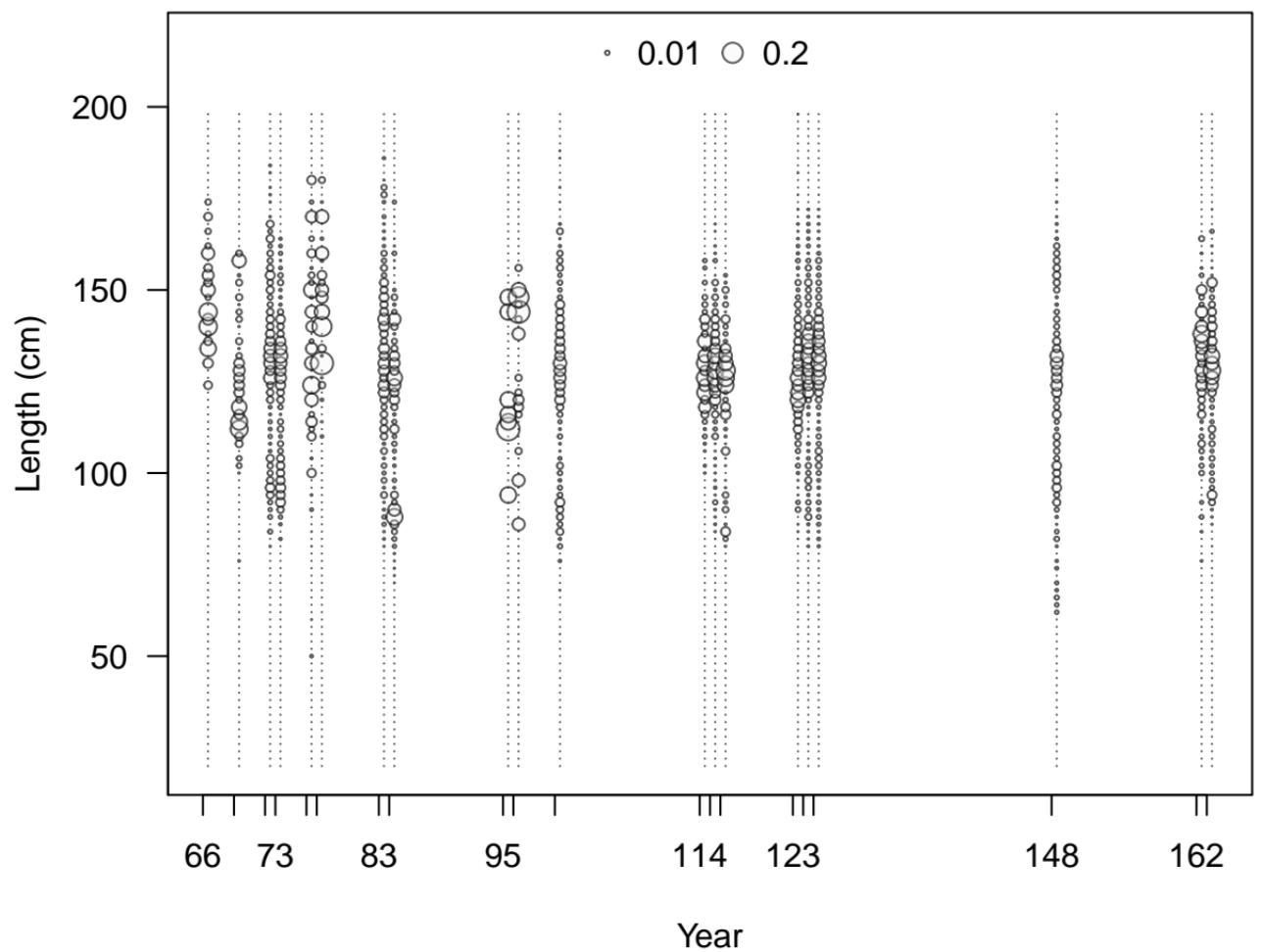


Proportion

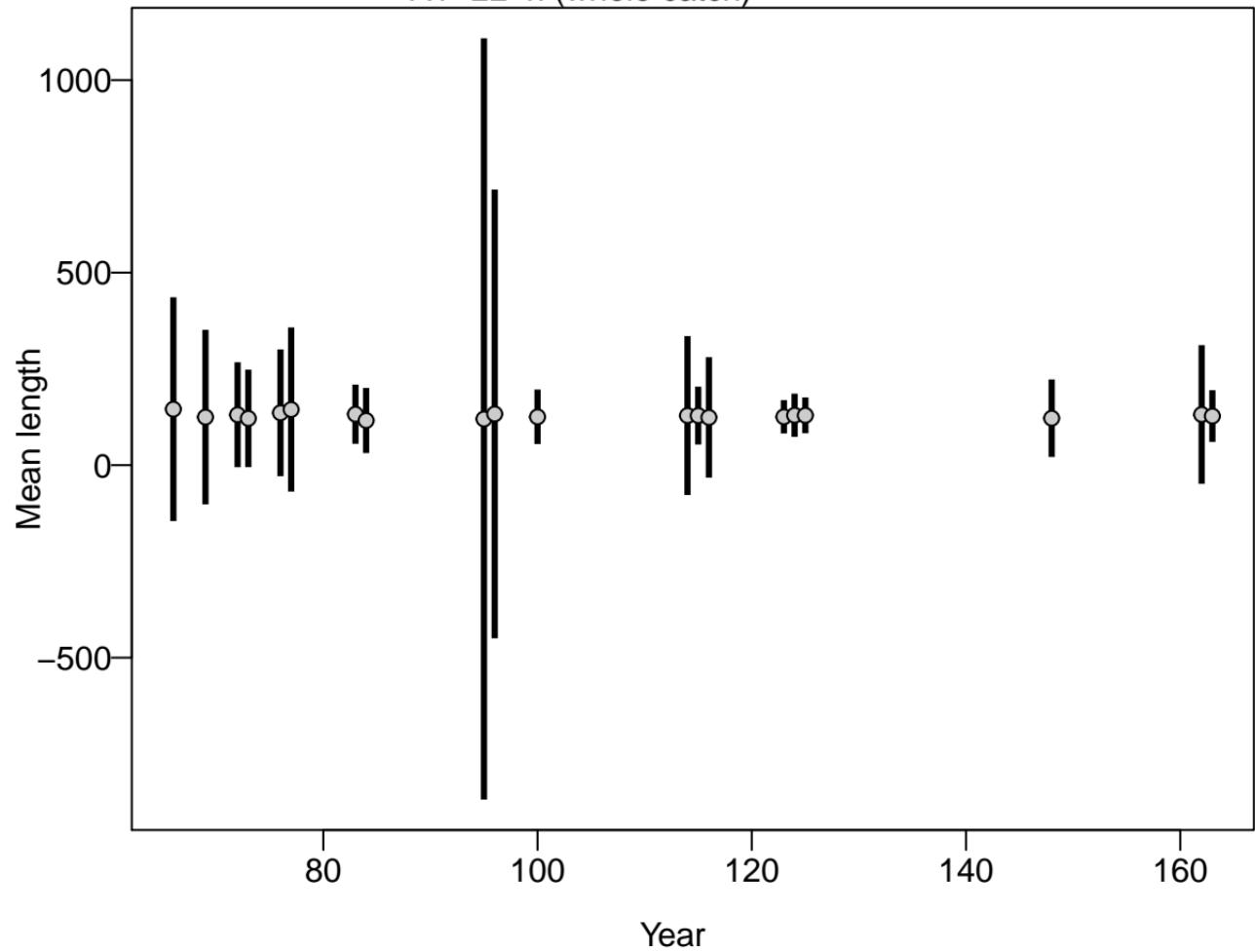


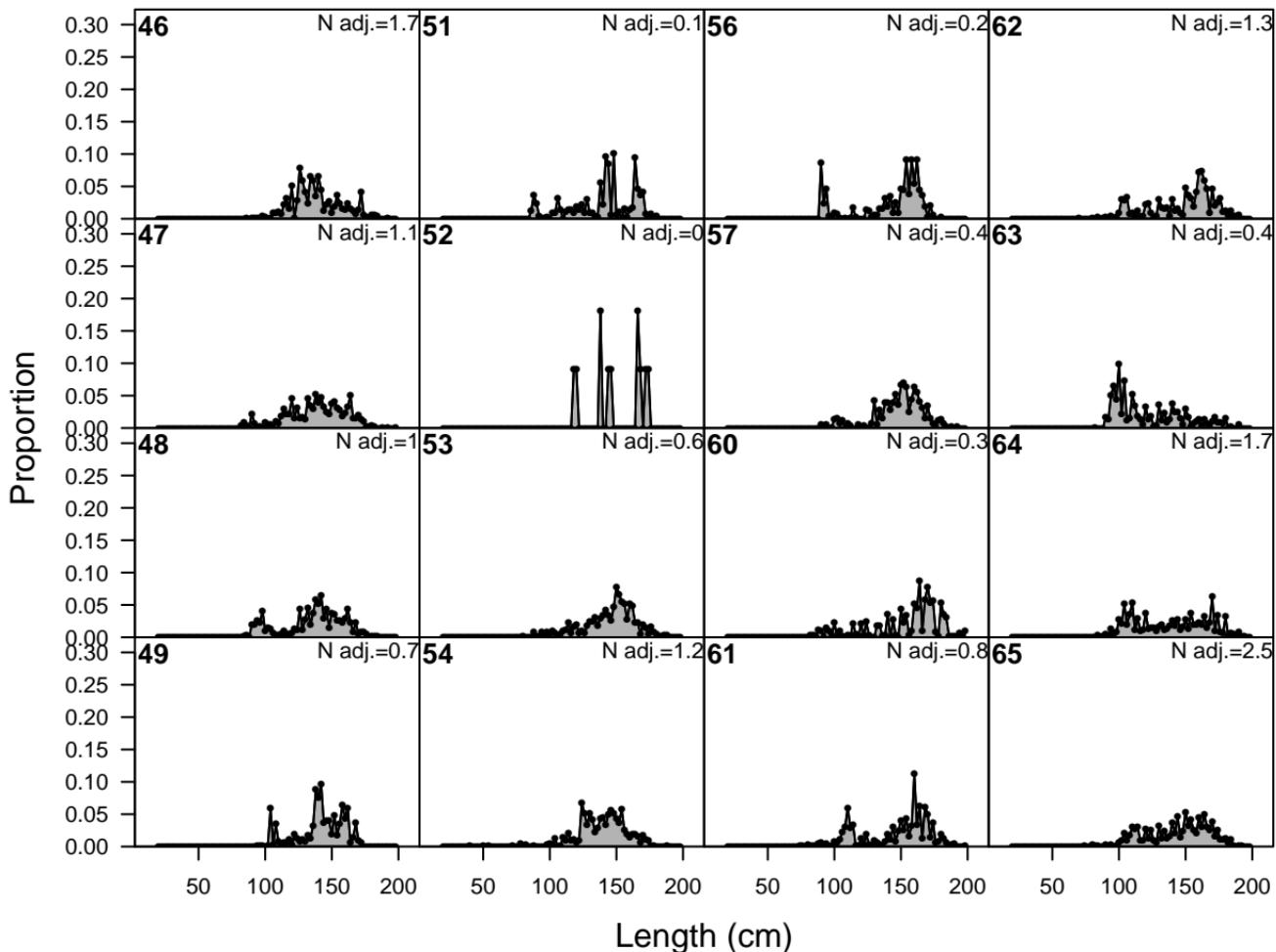
Proportion

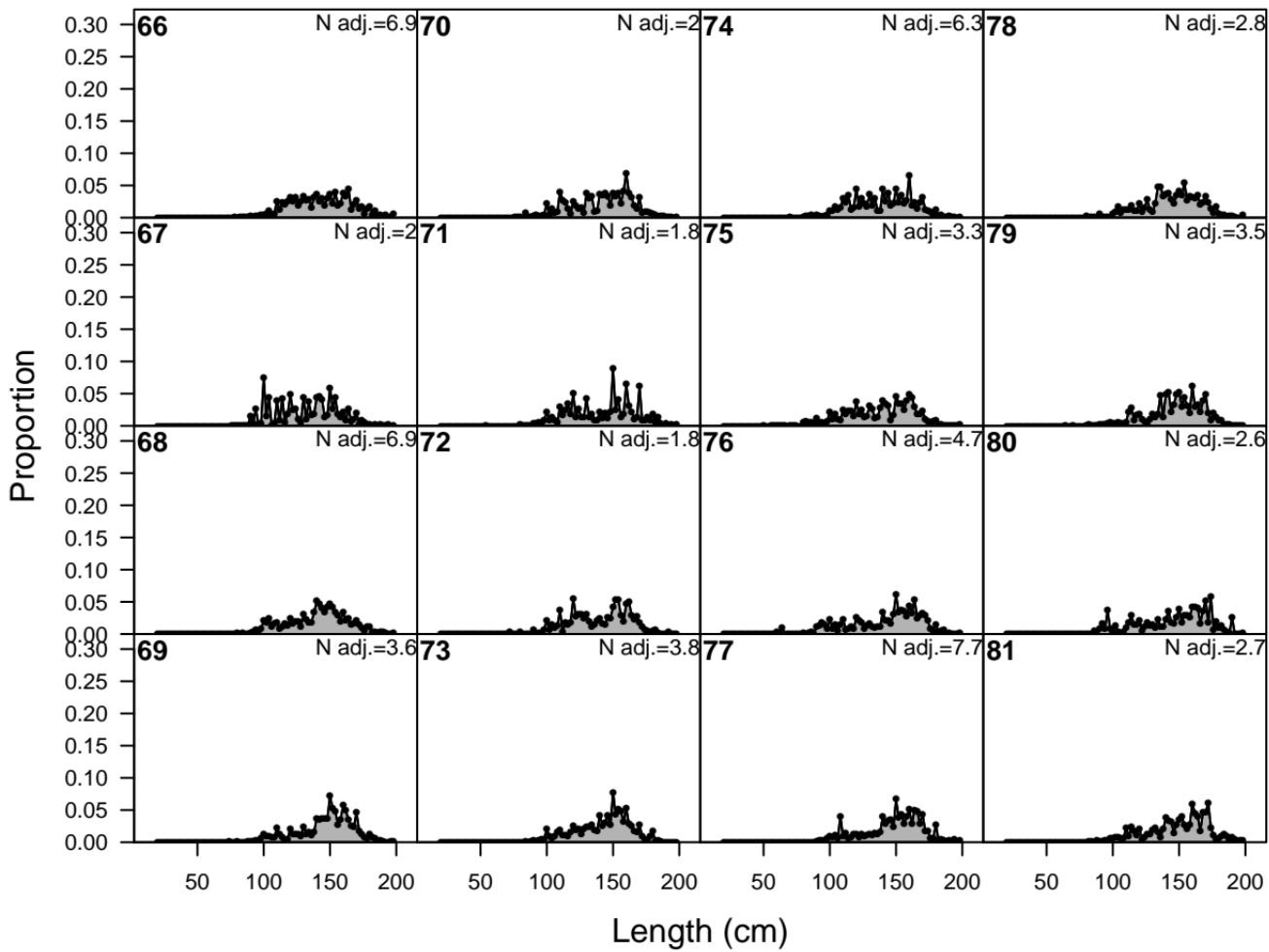


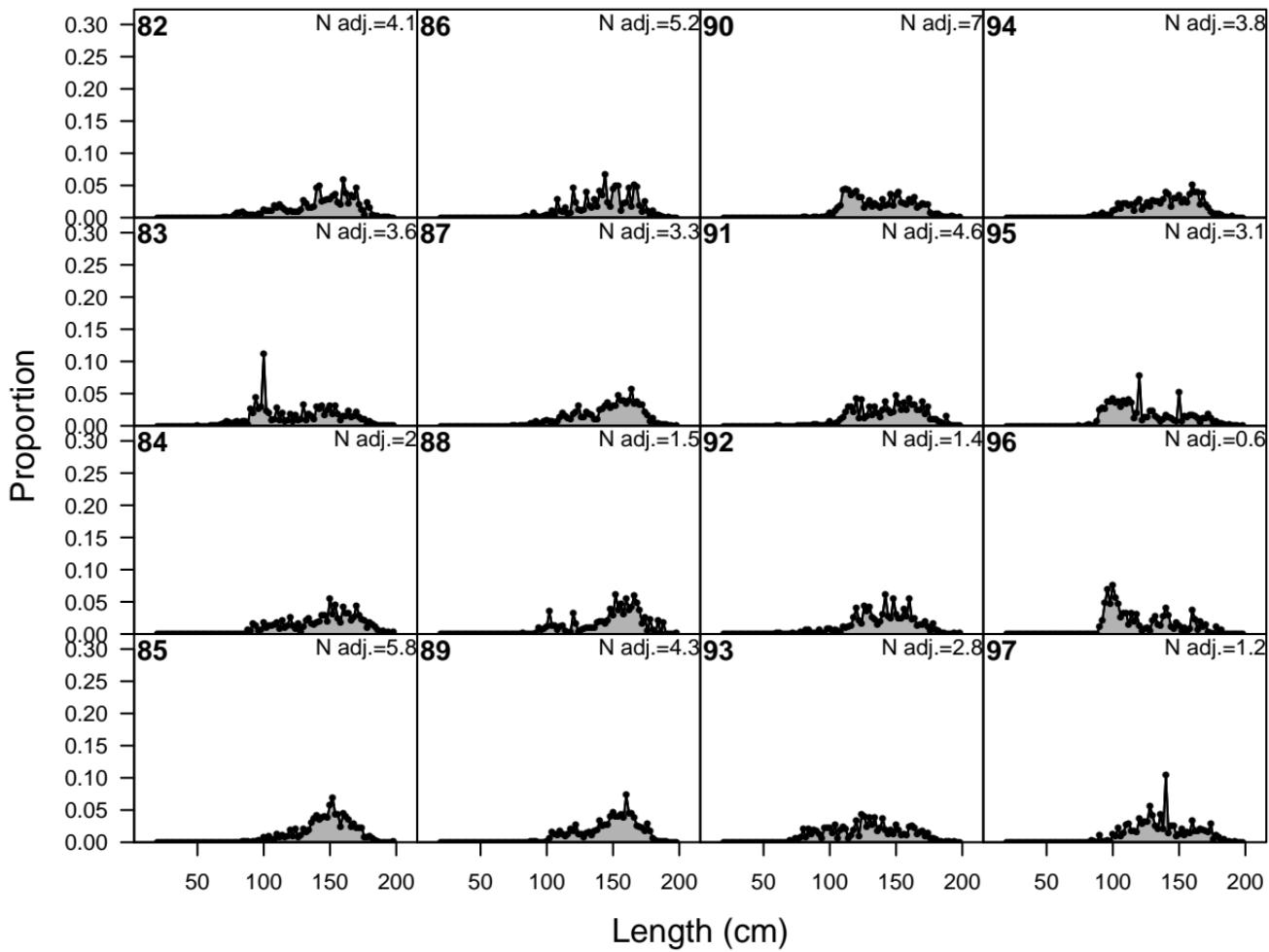


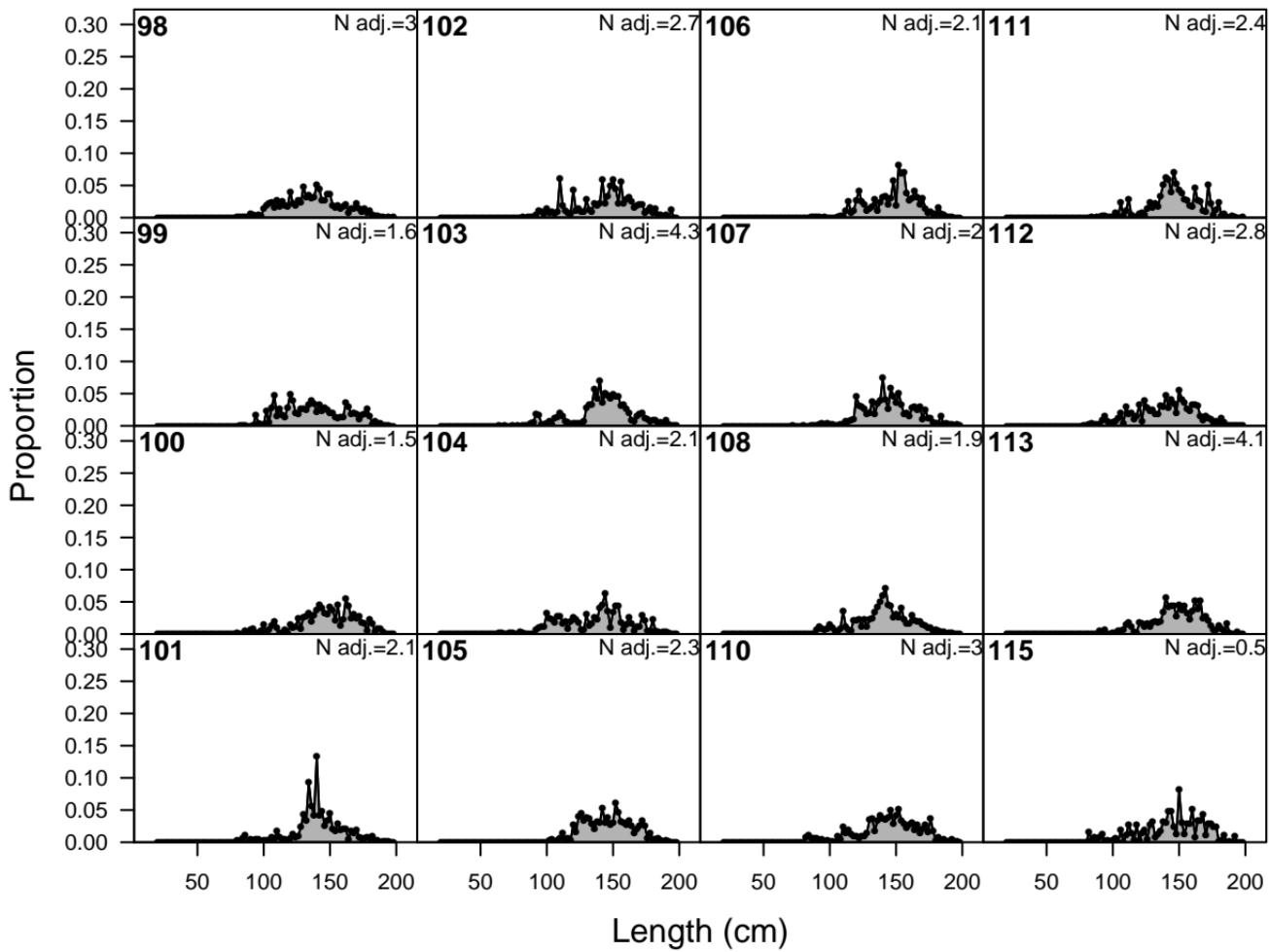
A1-LL-n (whole catch)

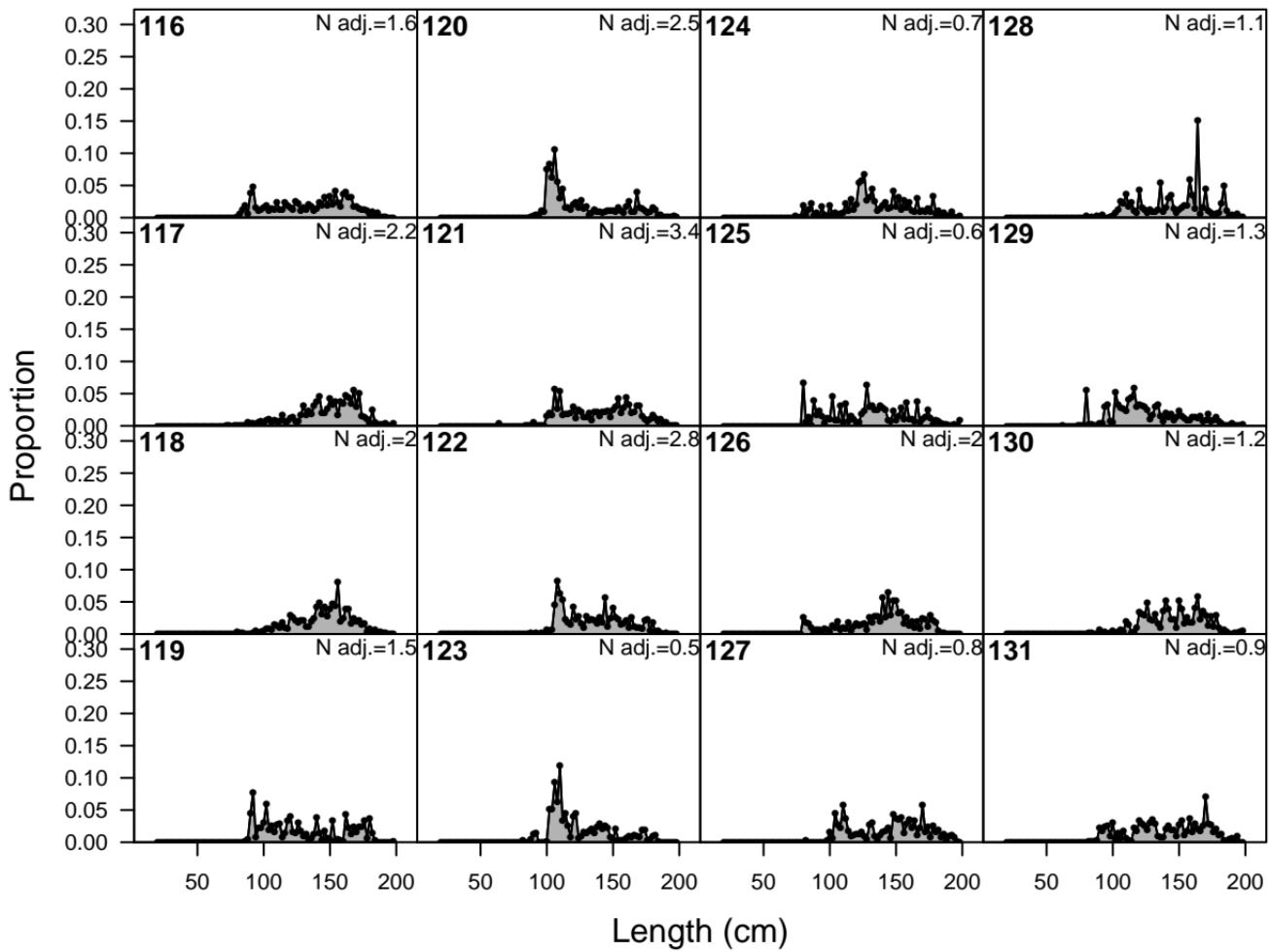


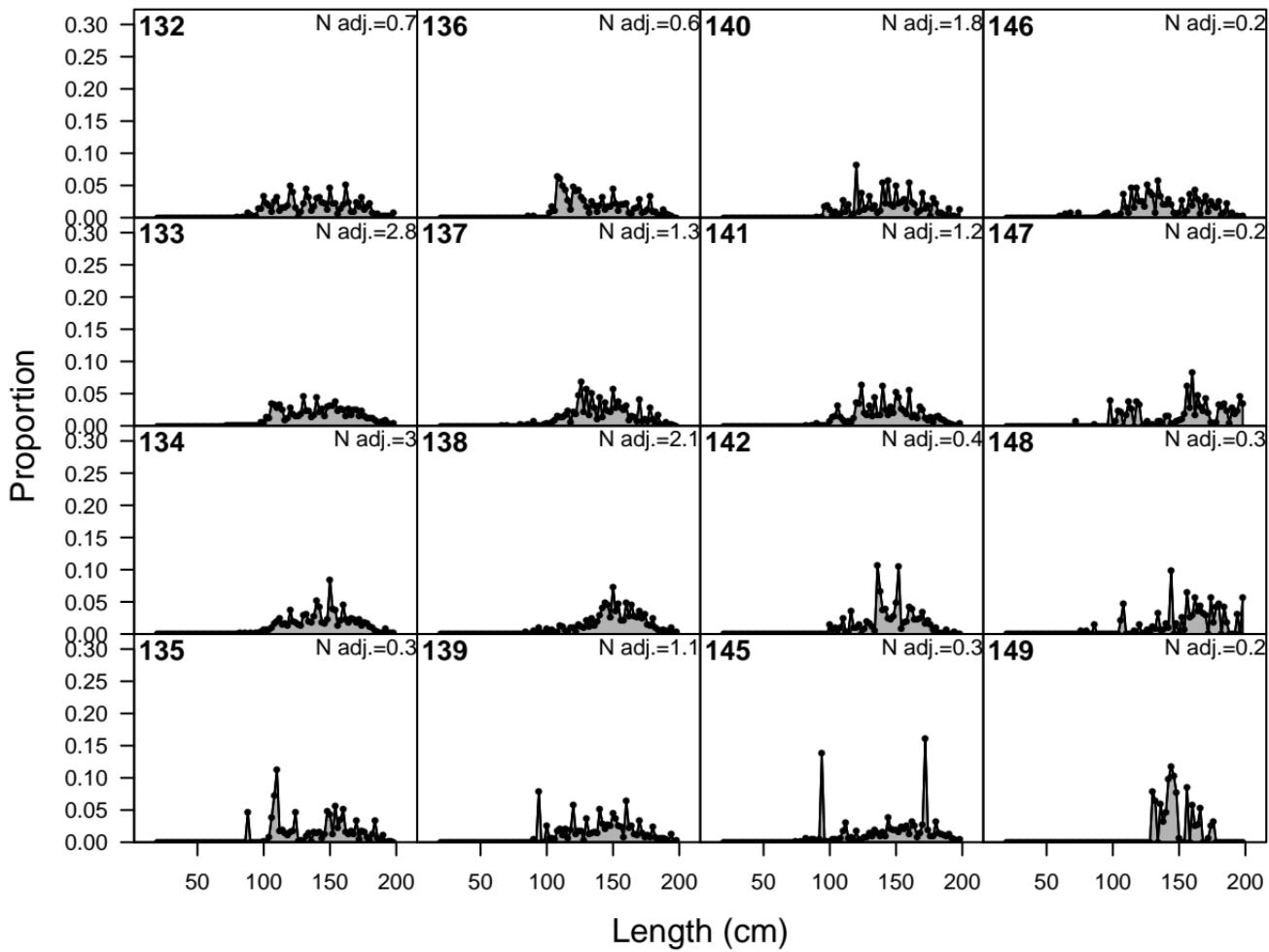


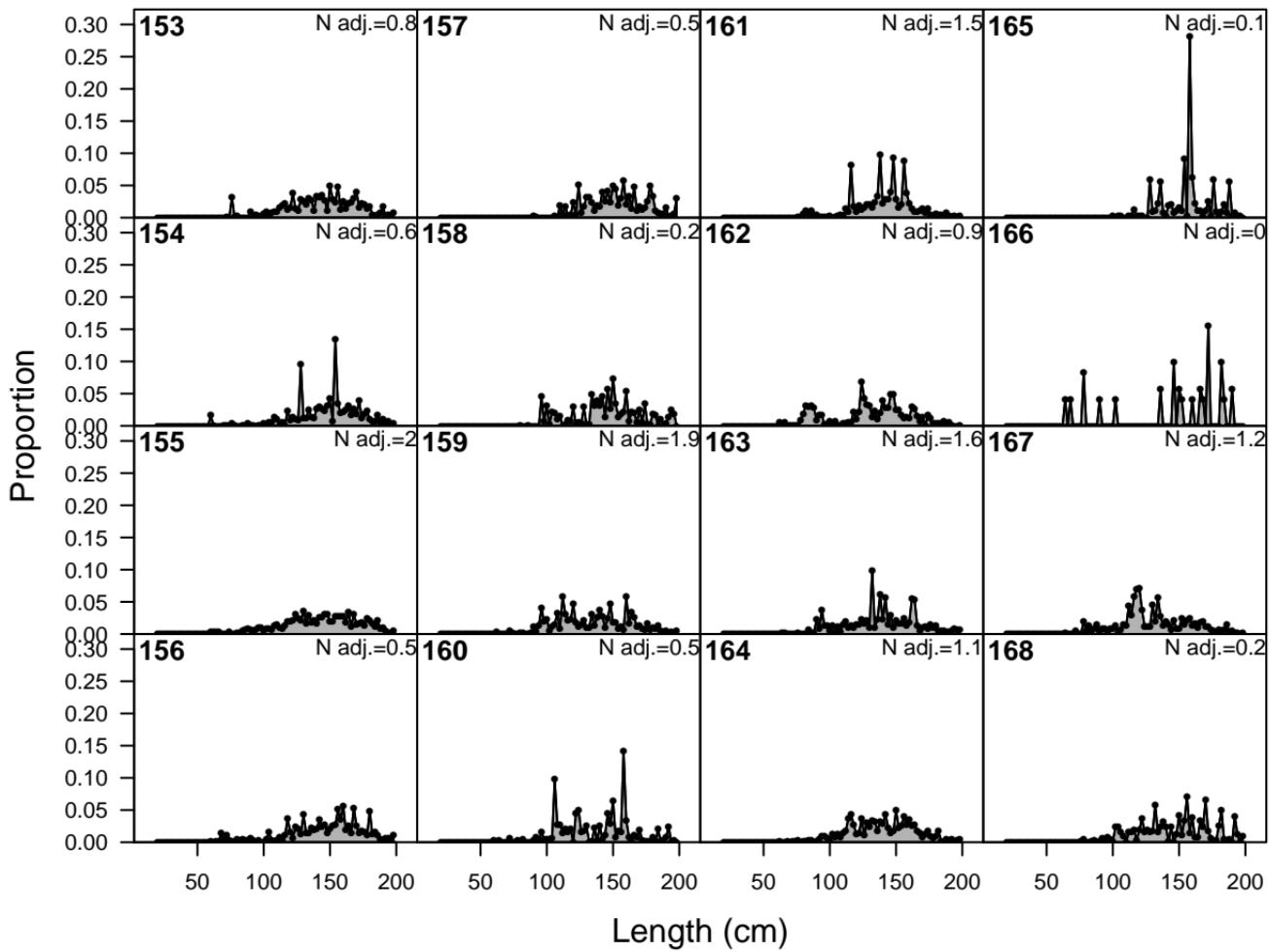


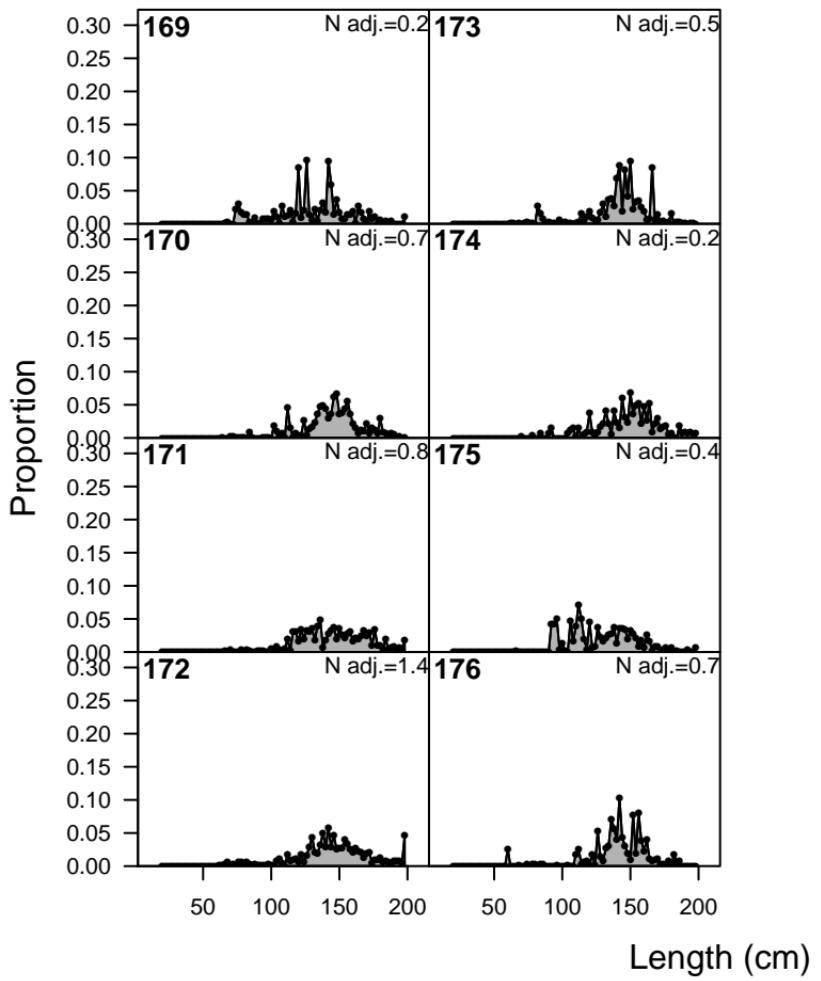


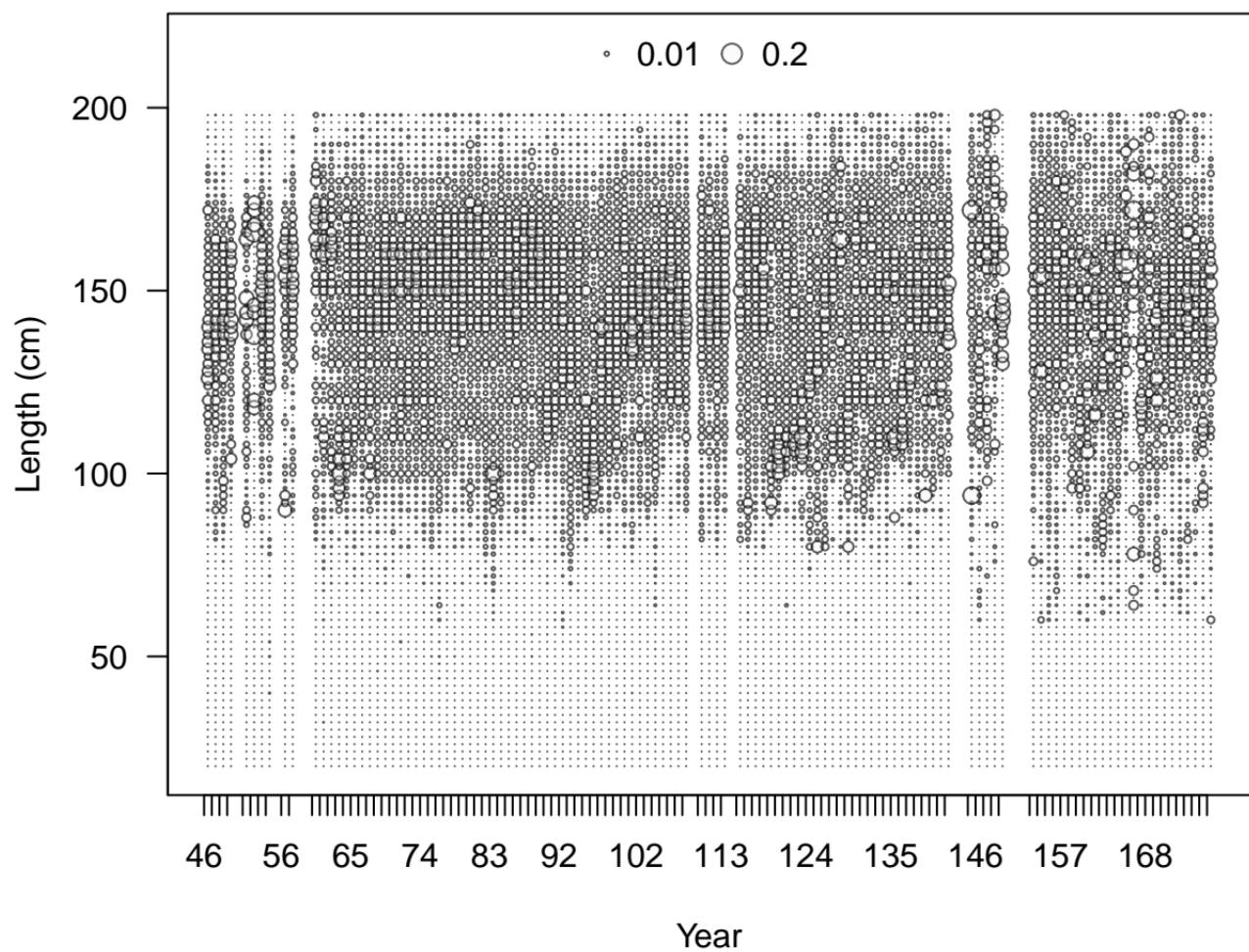




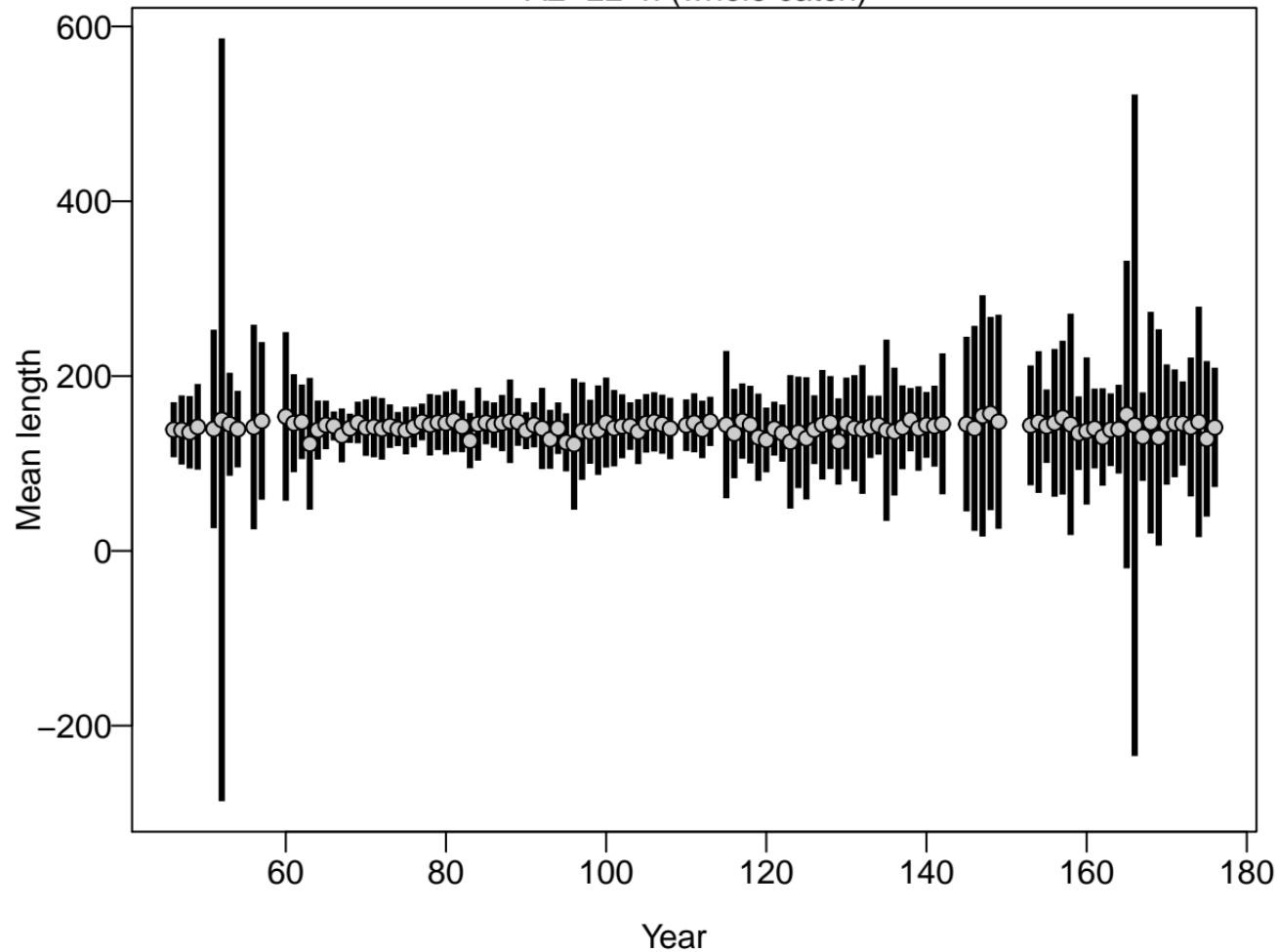




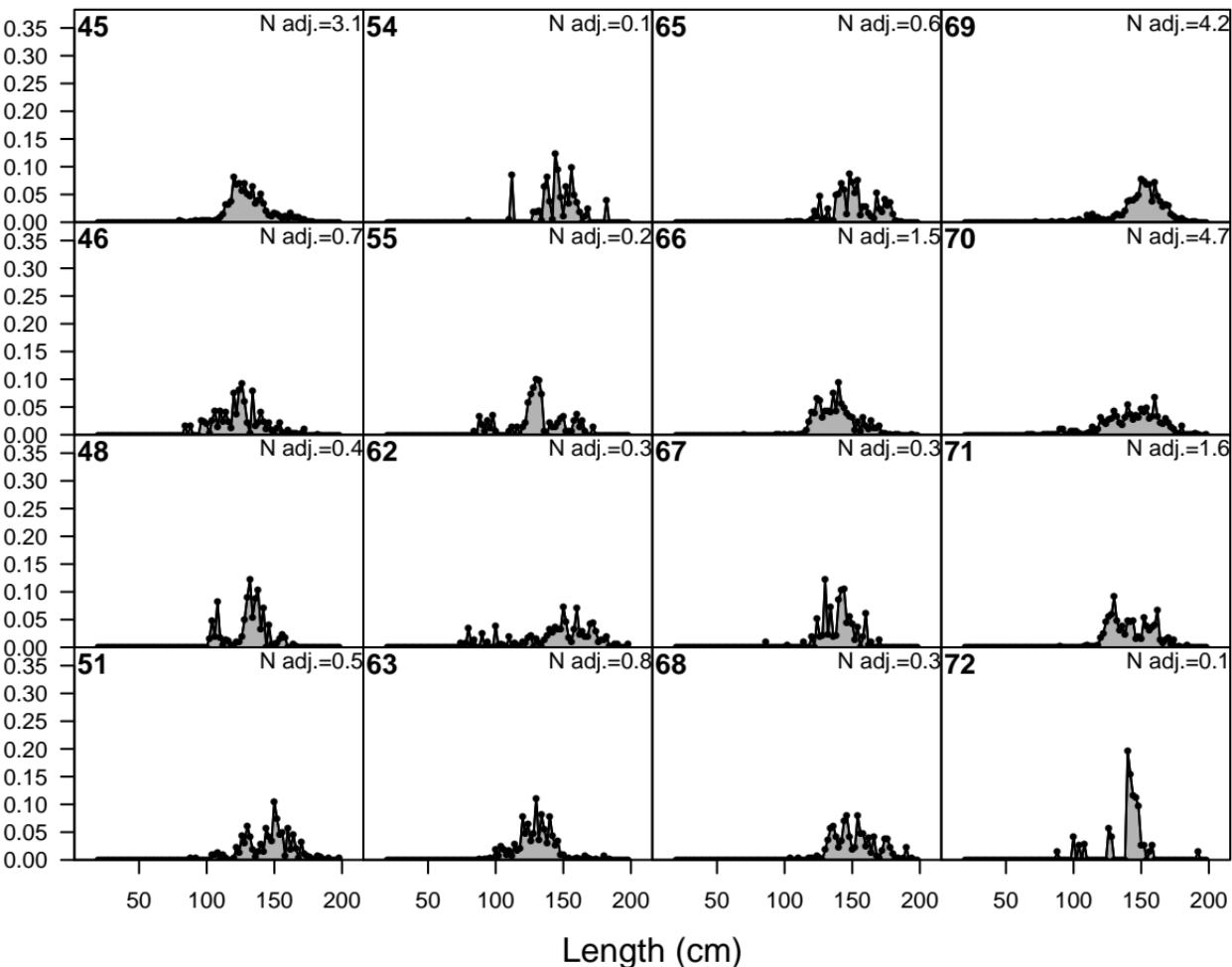




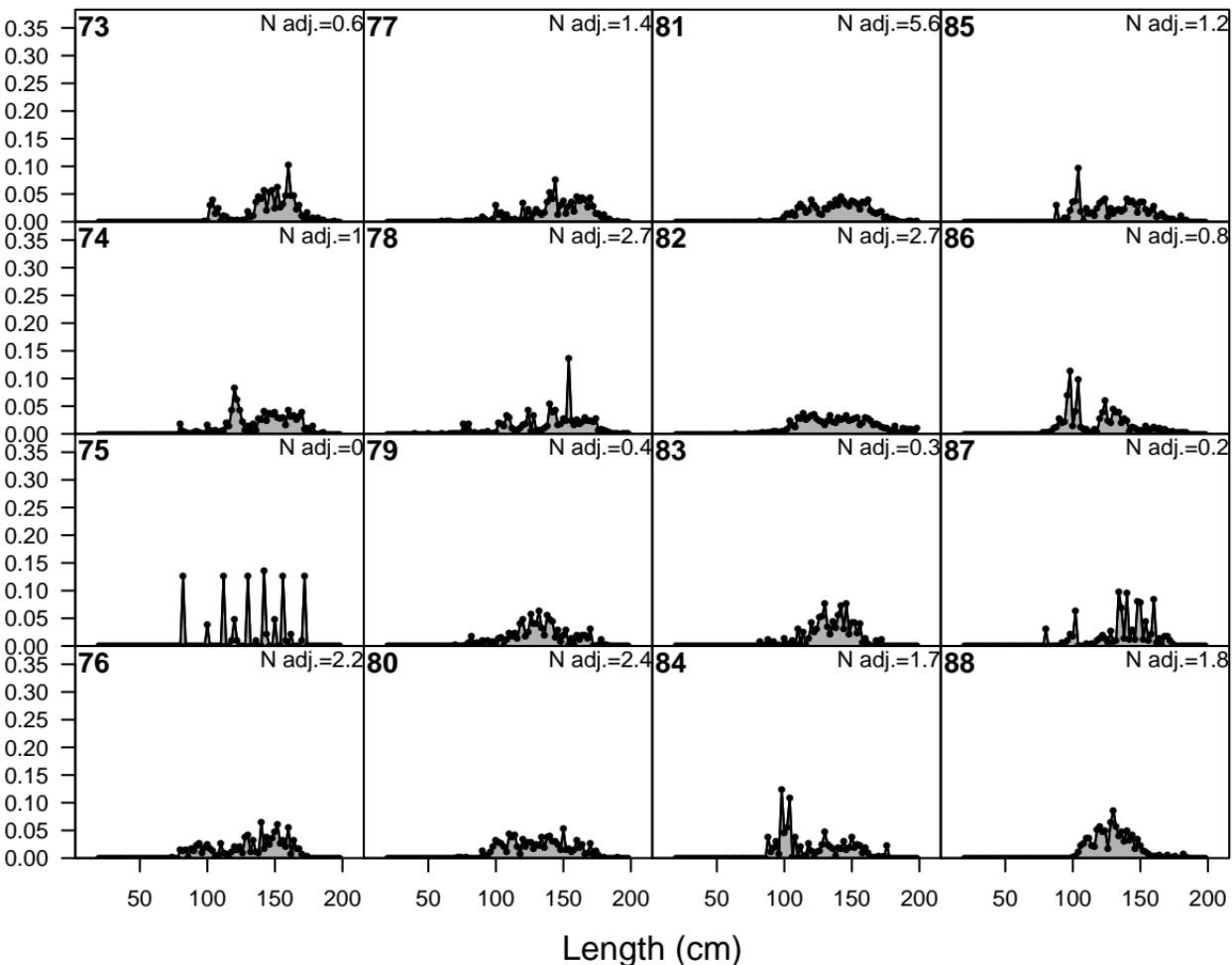
A2-LL-n (whole catch)



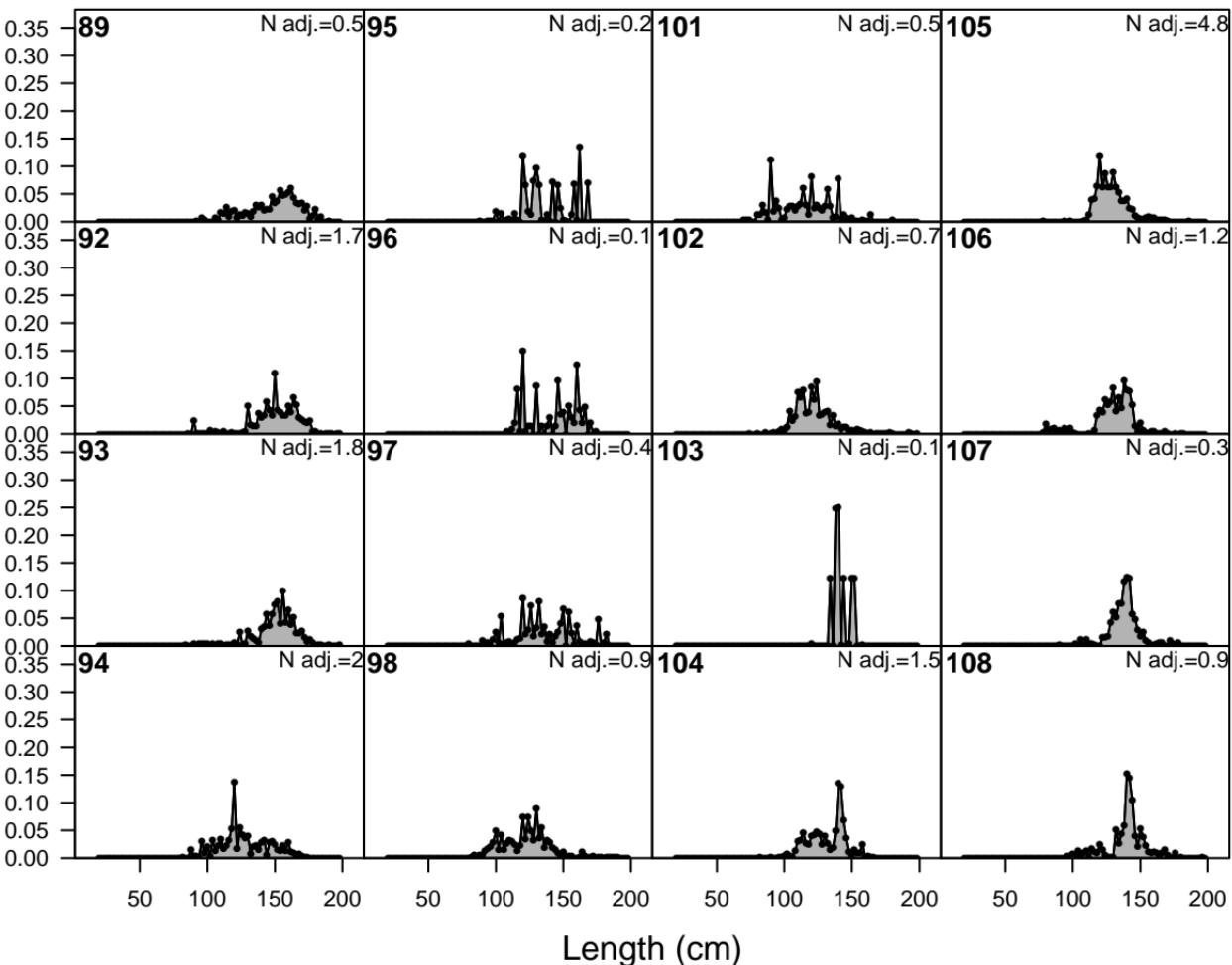
Proportion



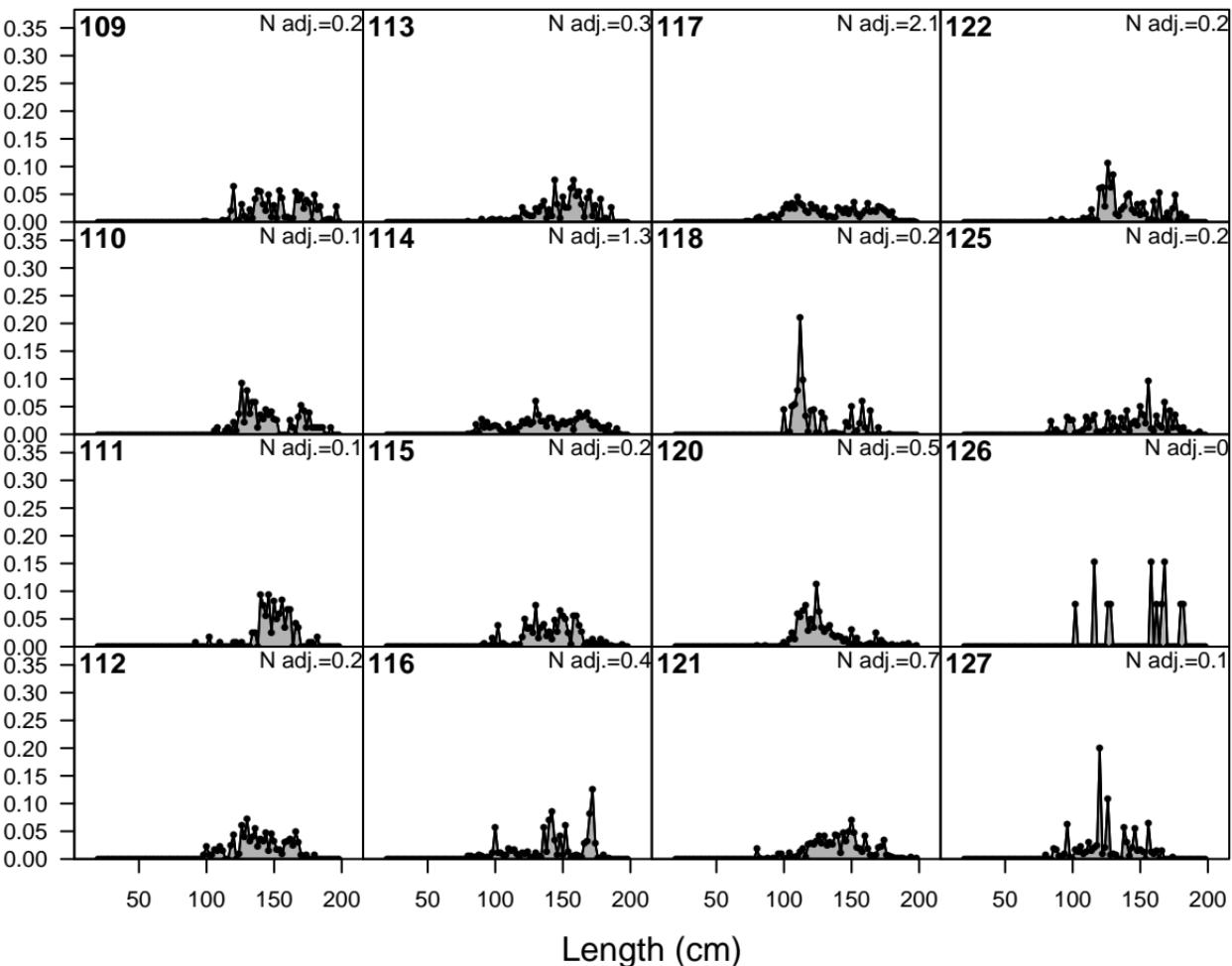
Proportion



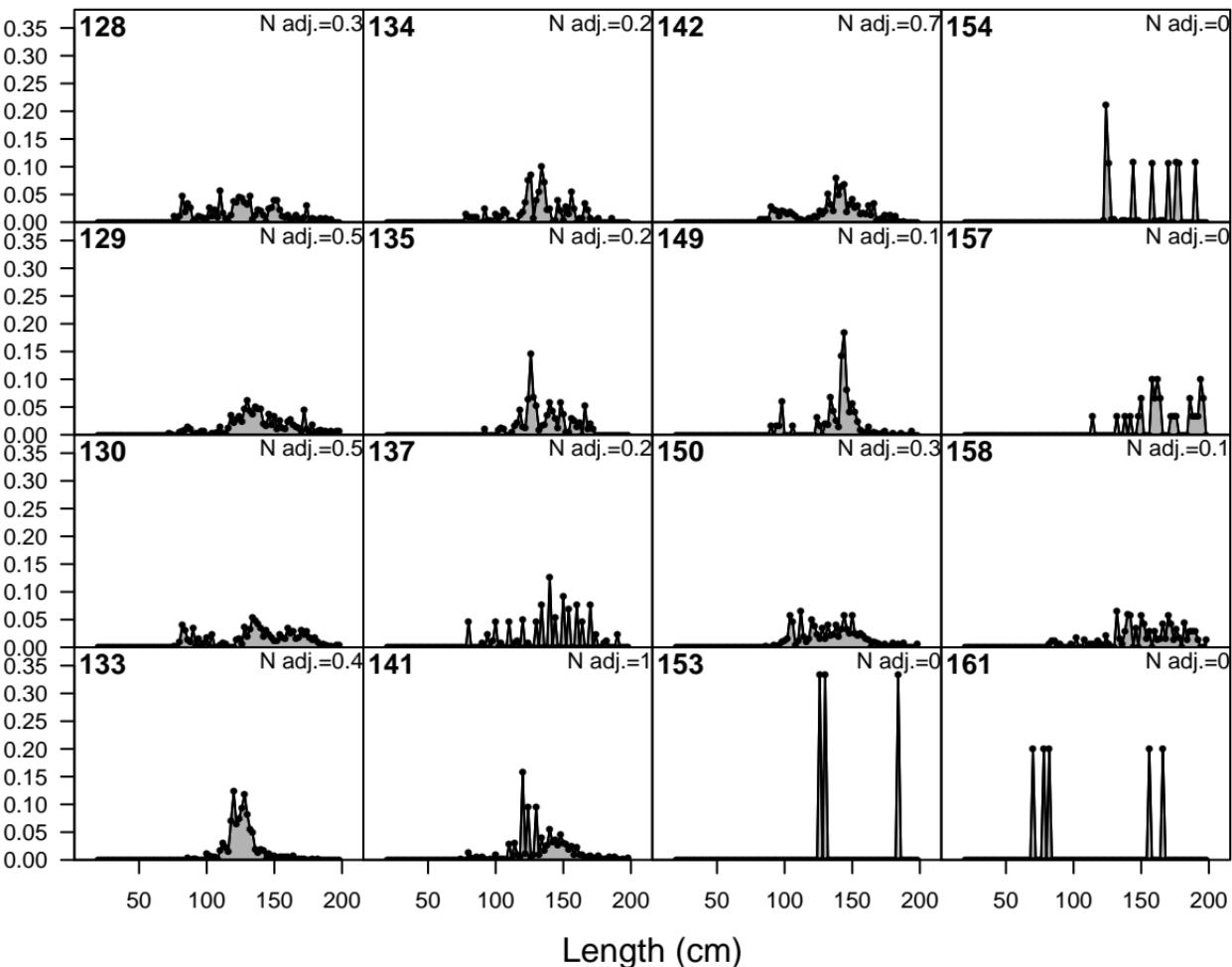
Proportion

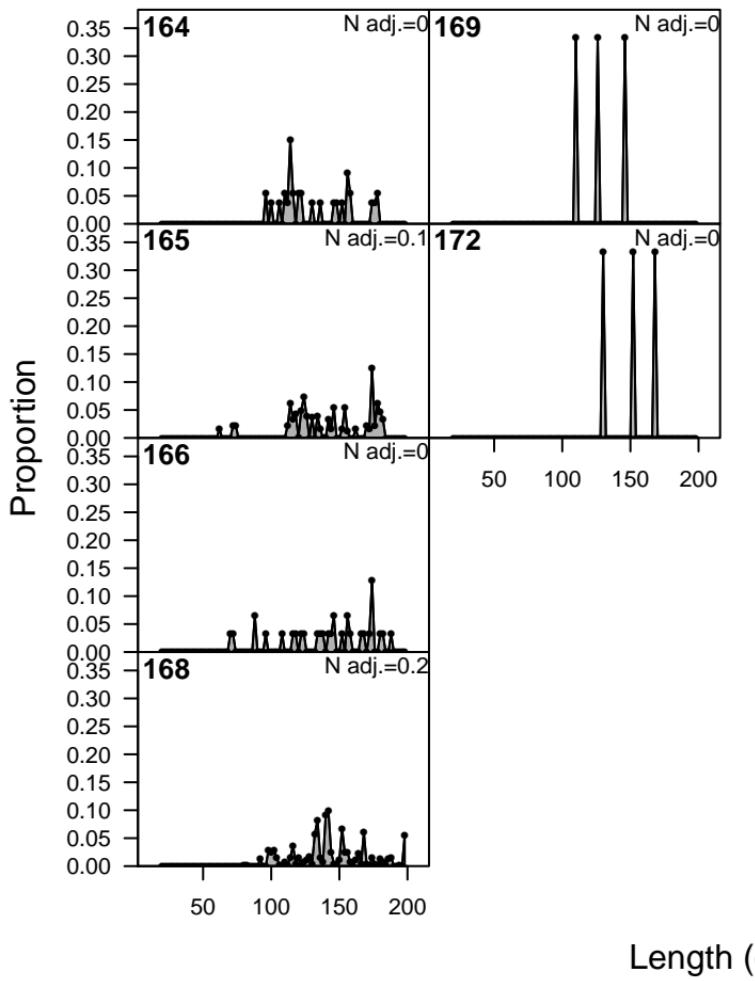


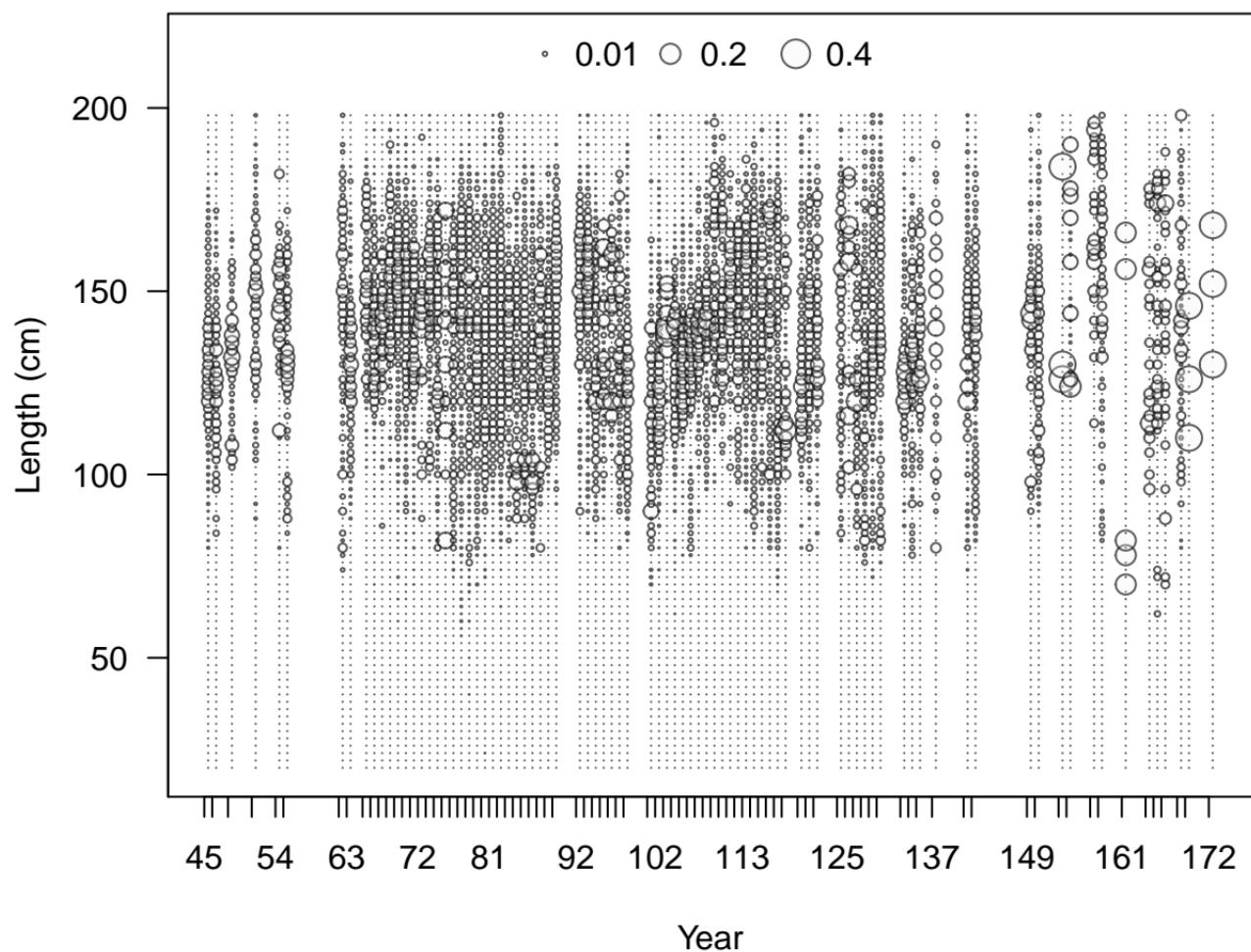
Proportion



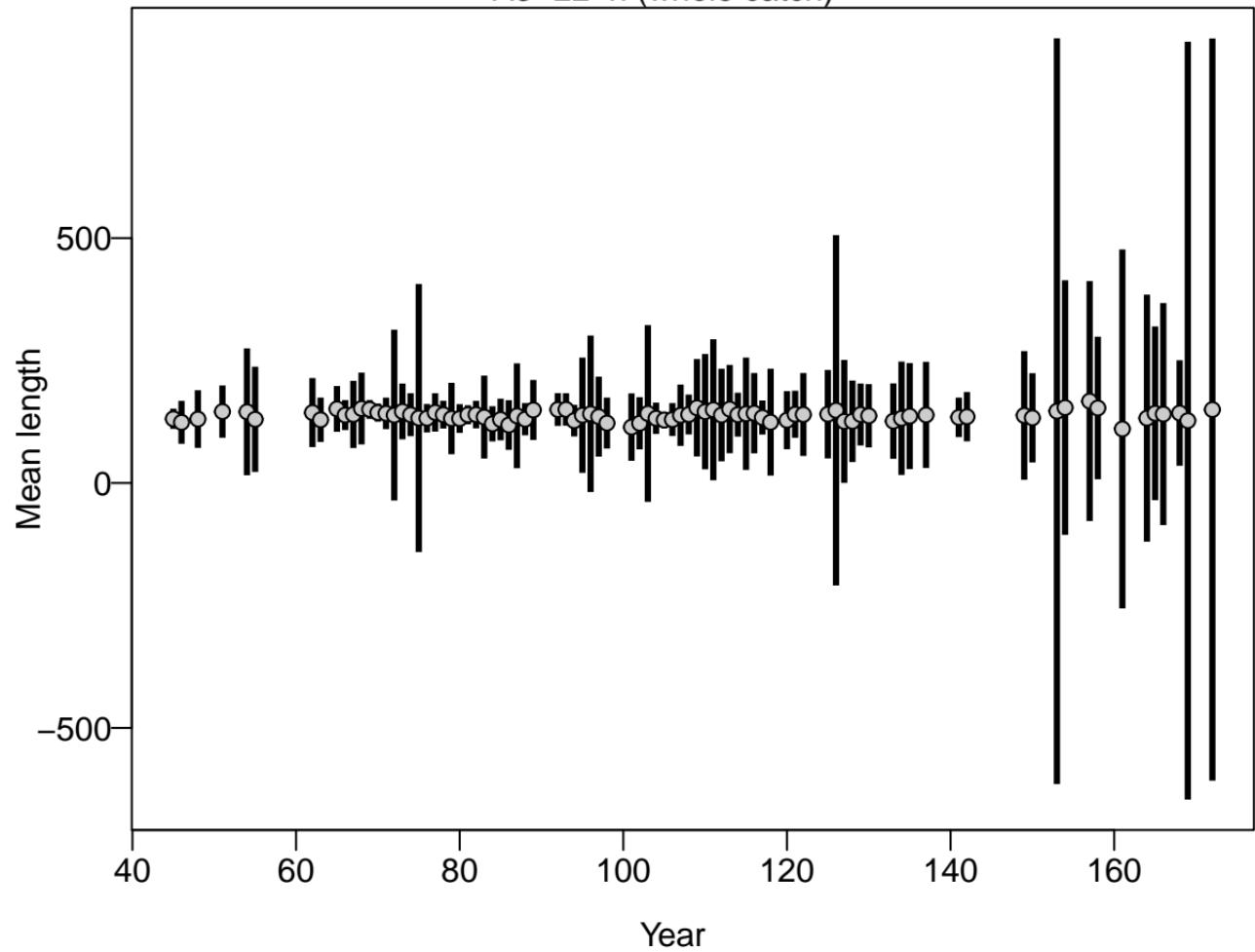
Proportion



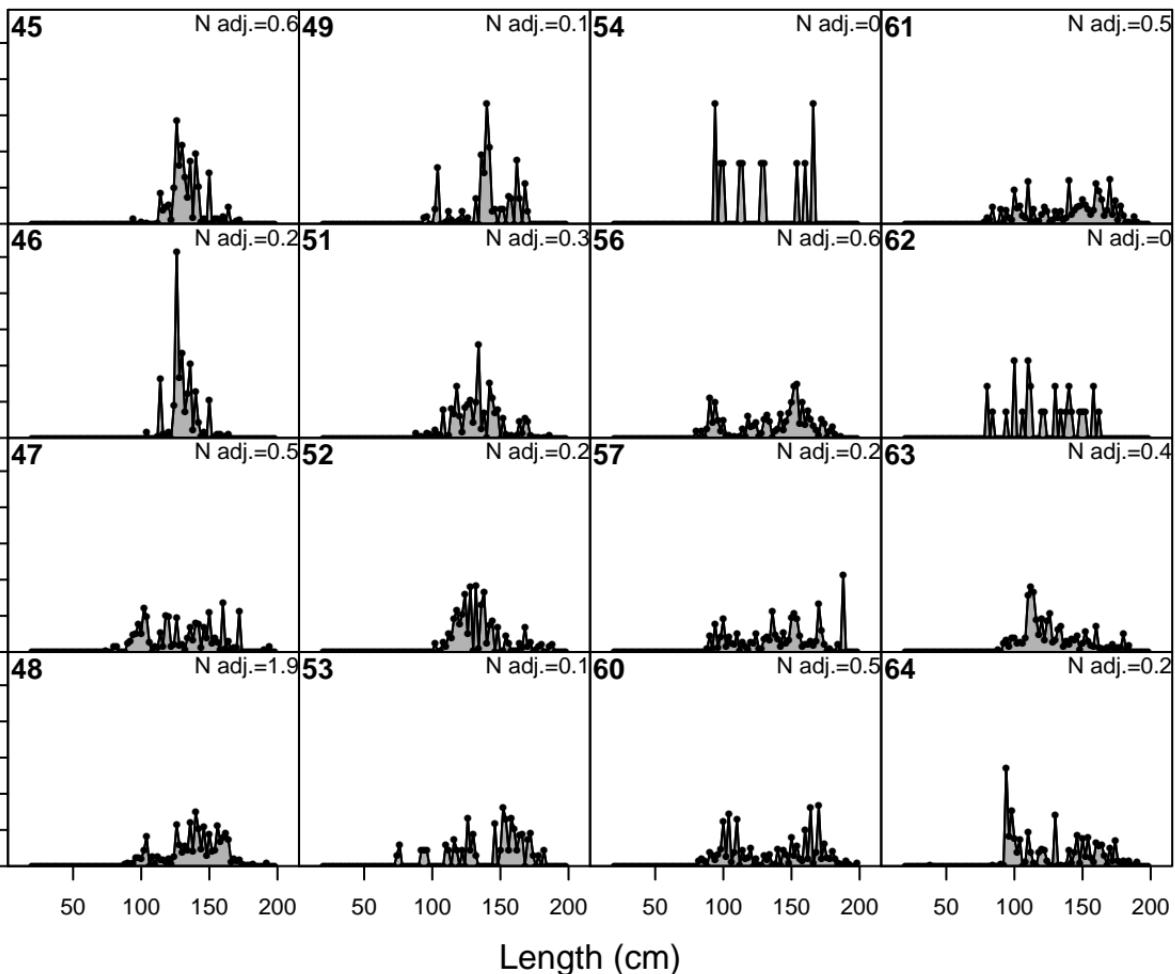


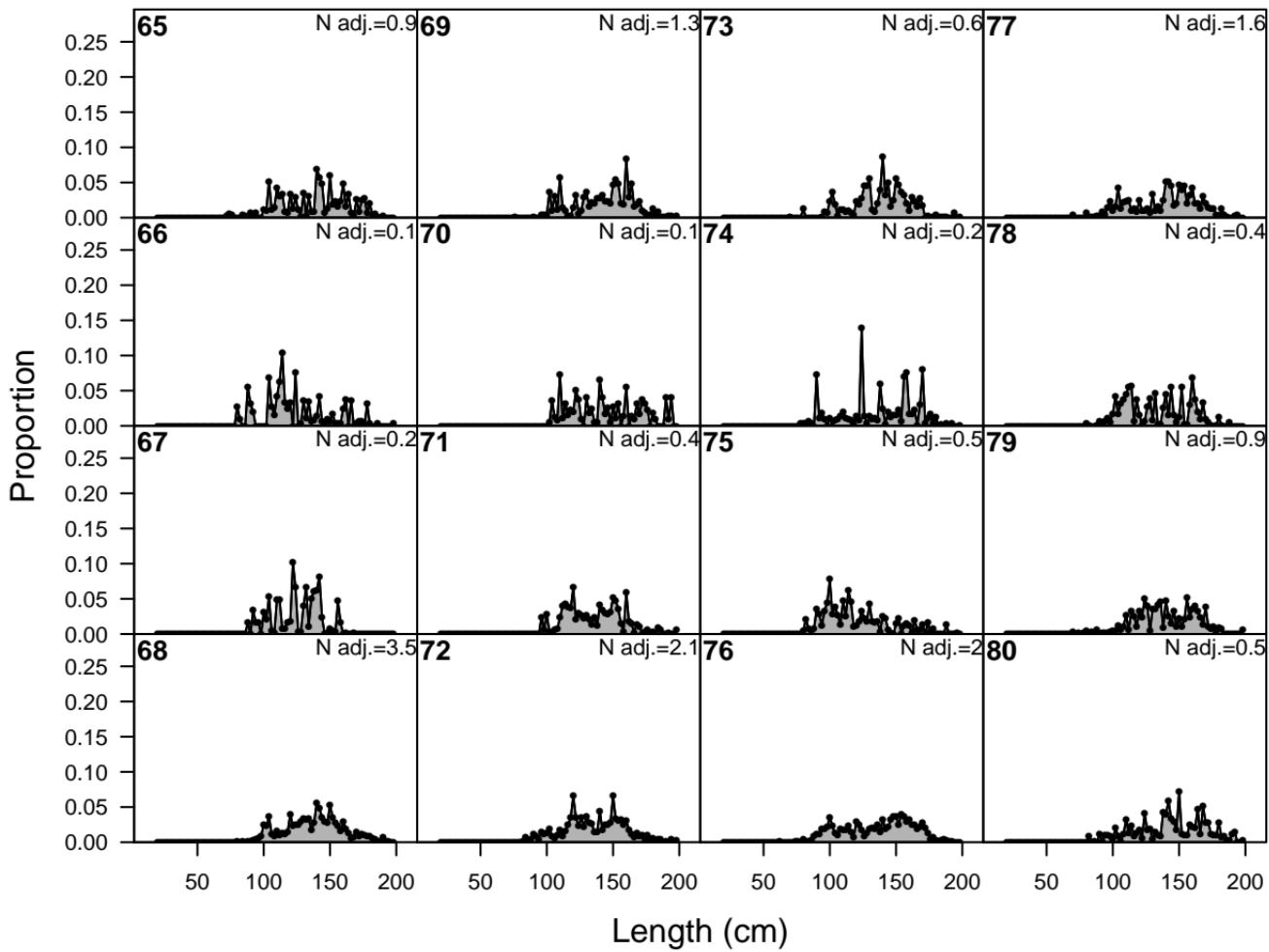


A3-LL-n (whole catch)

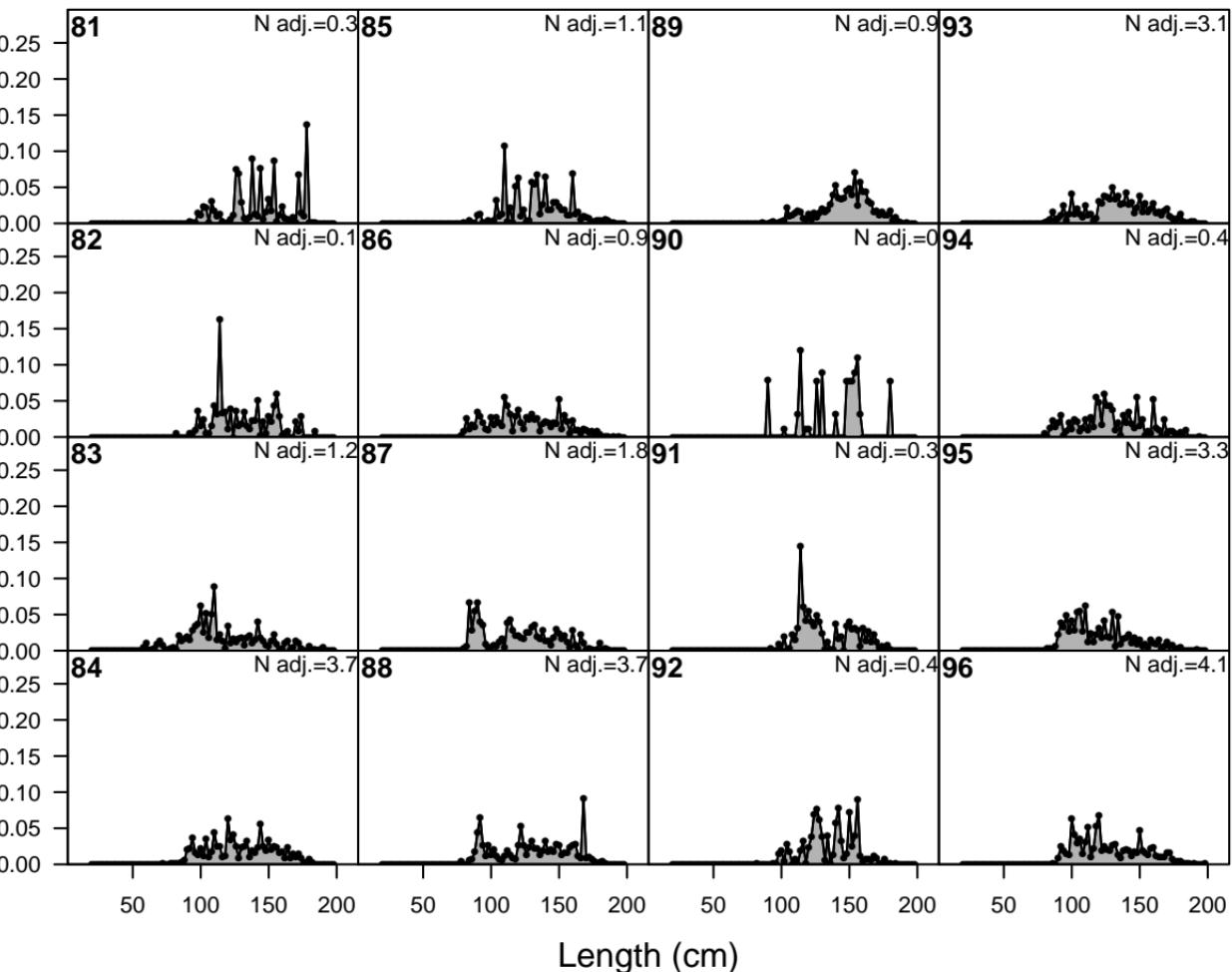


Proportion

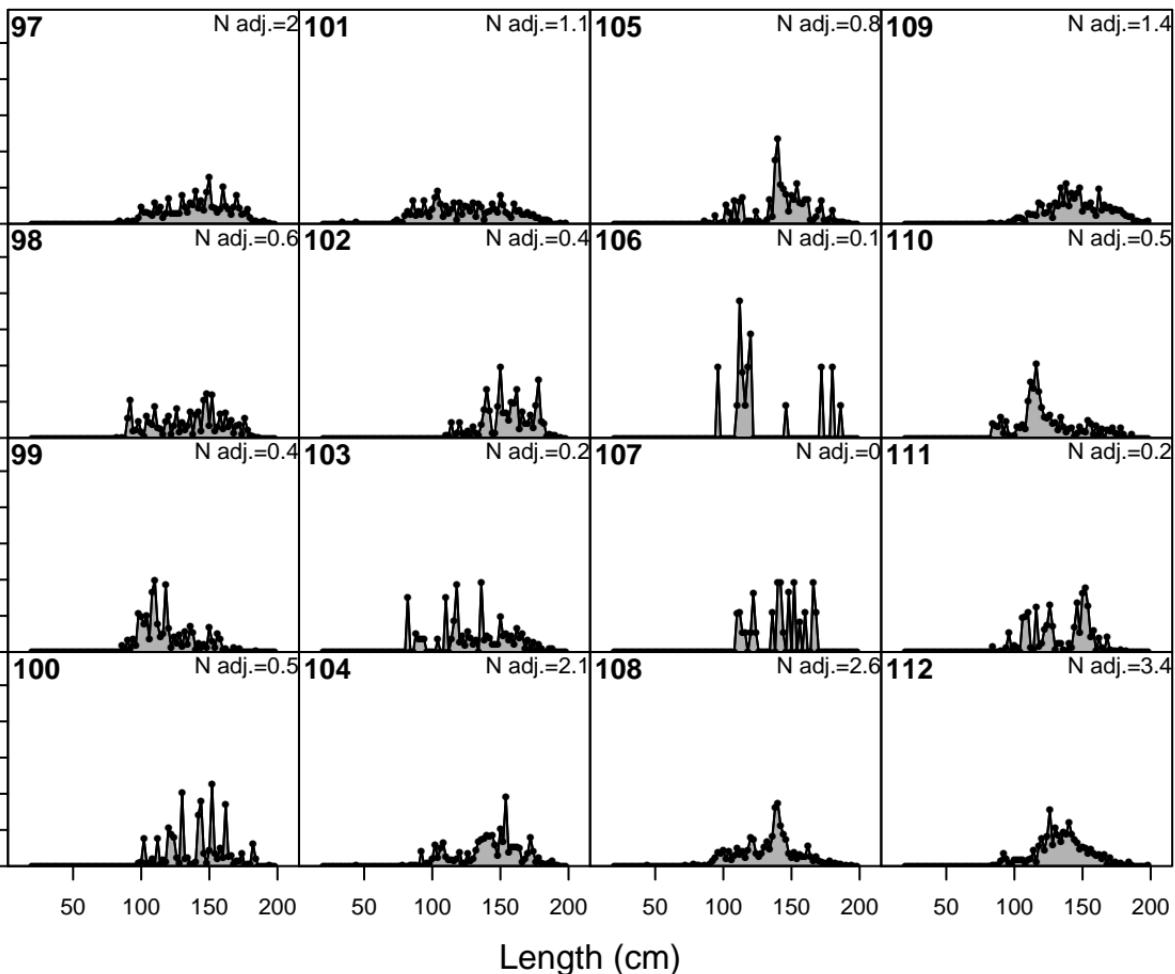




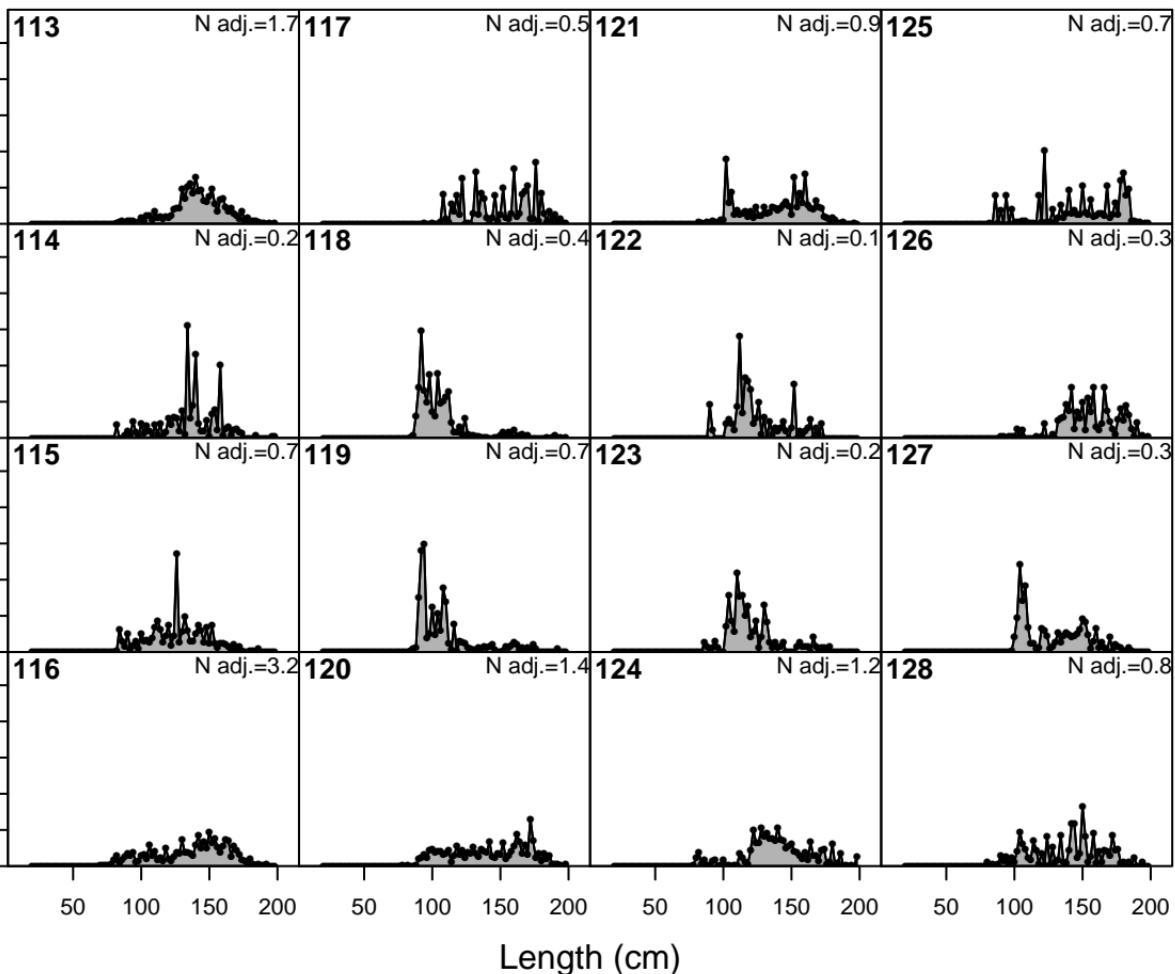
Proportion



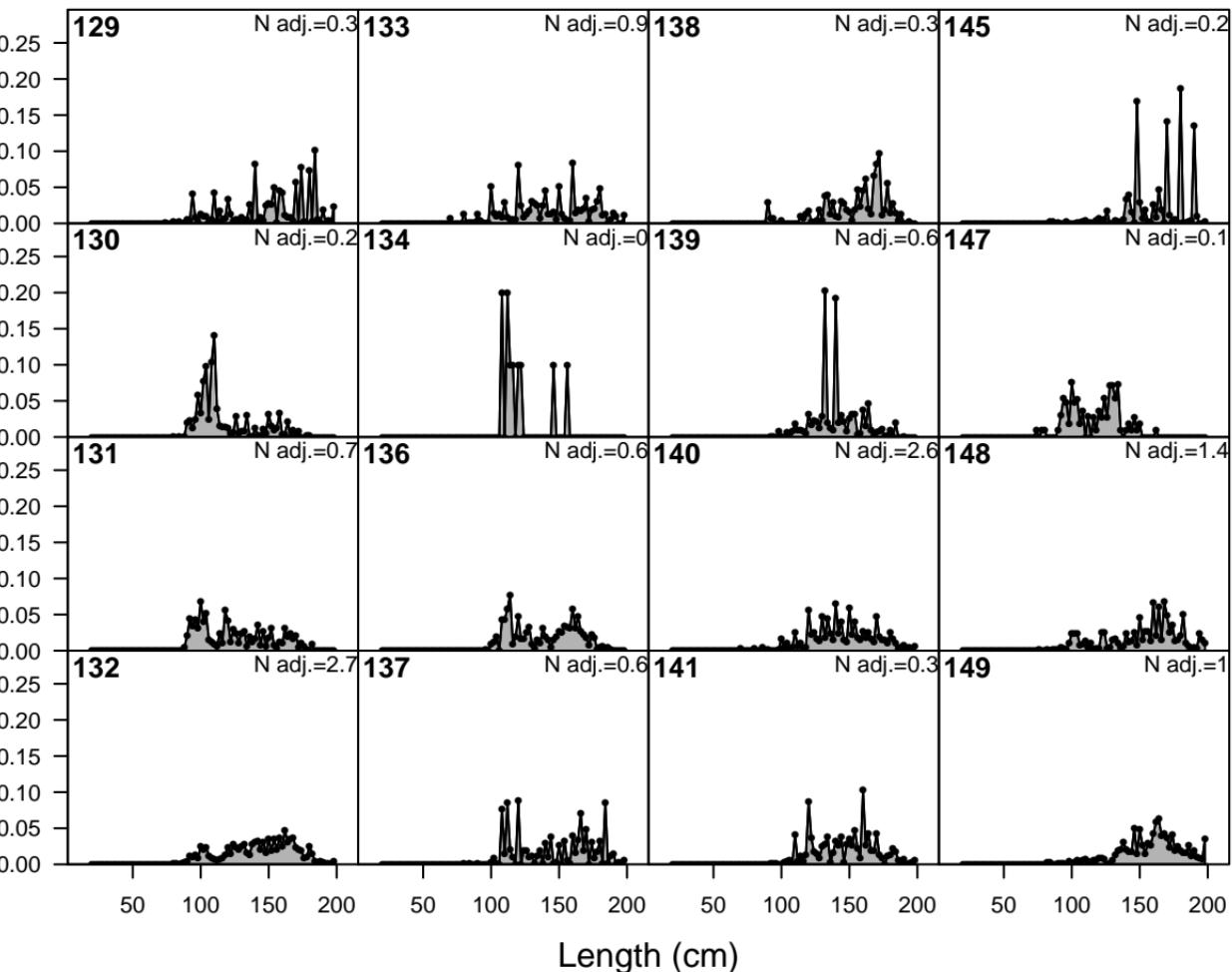
Proportion

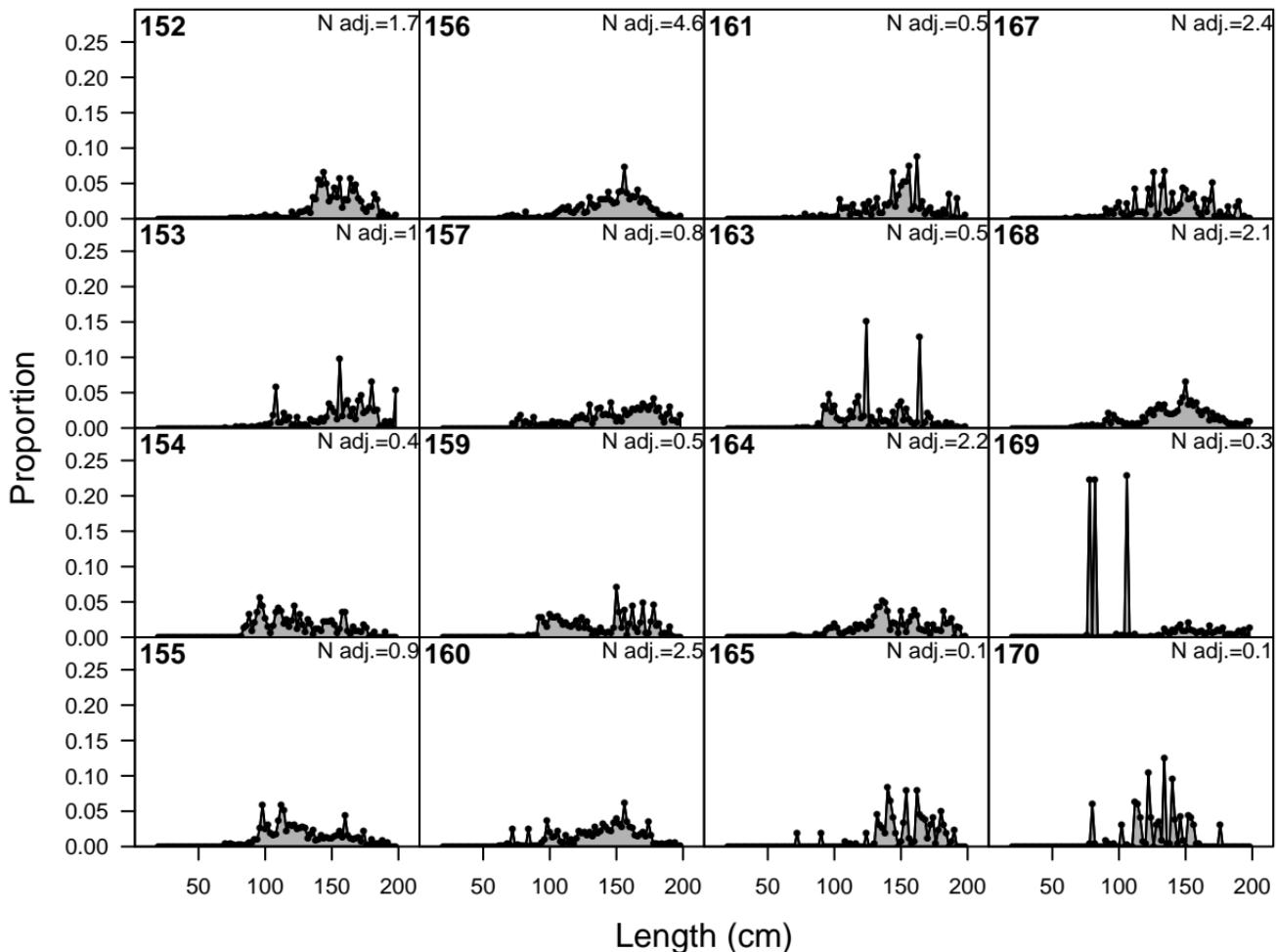


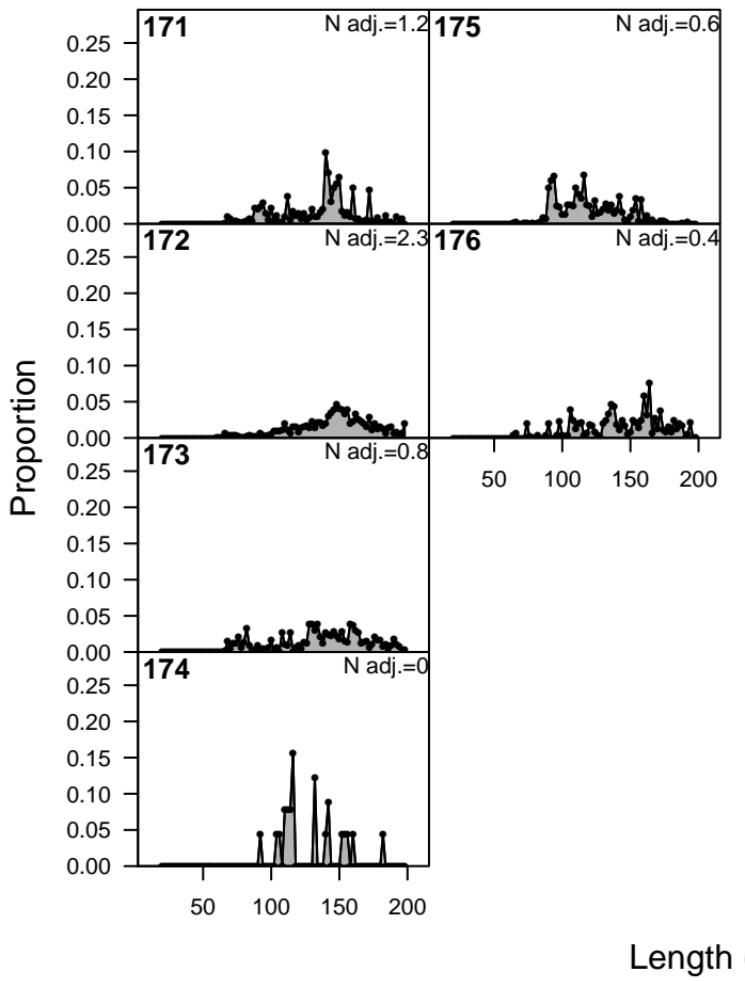
Proportion

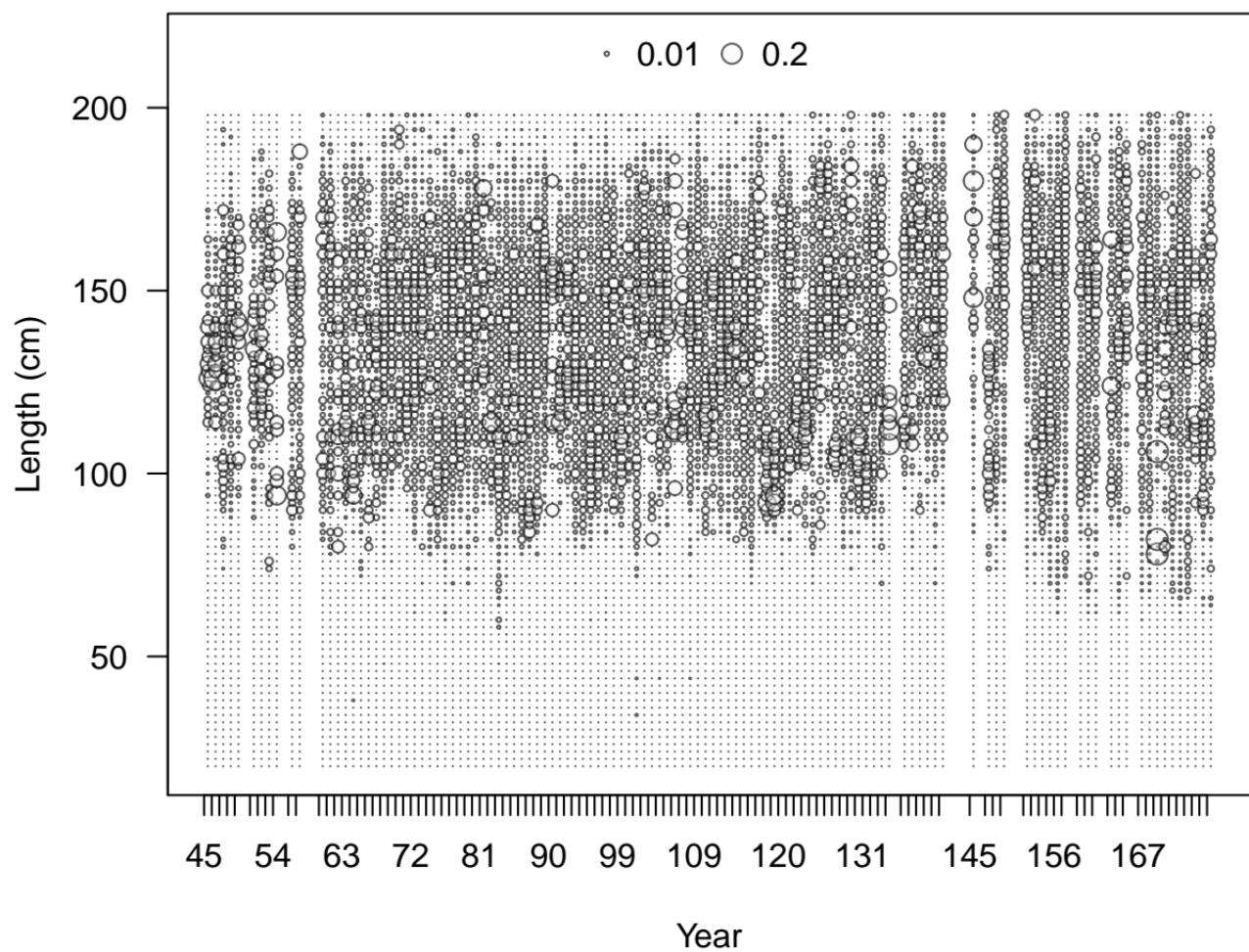


Proportion

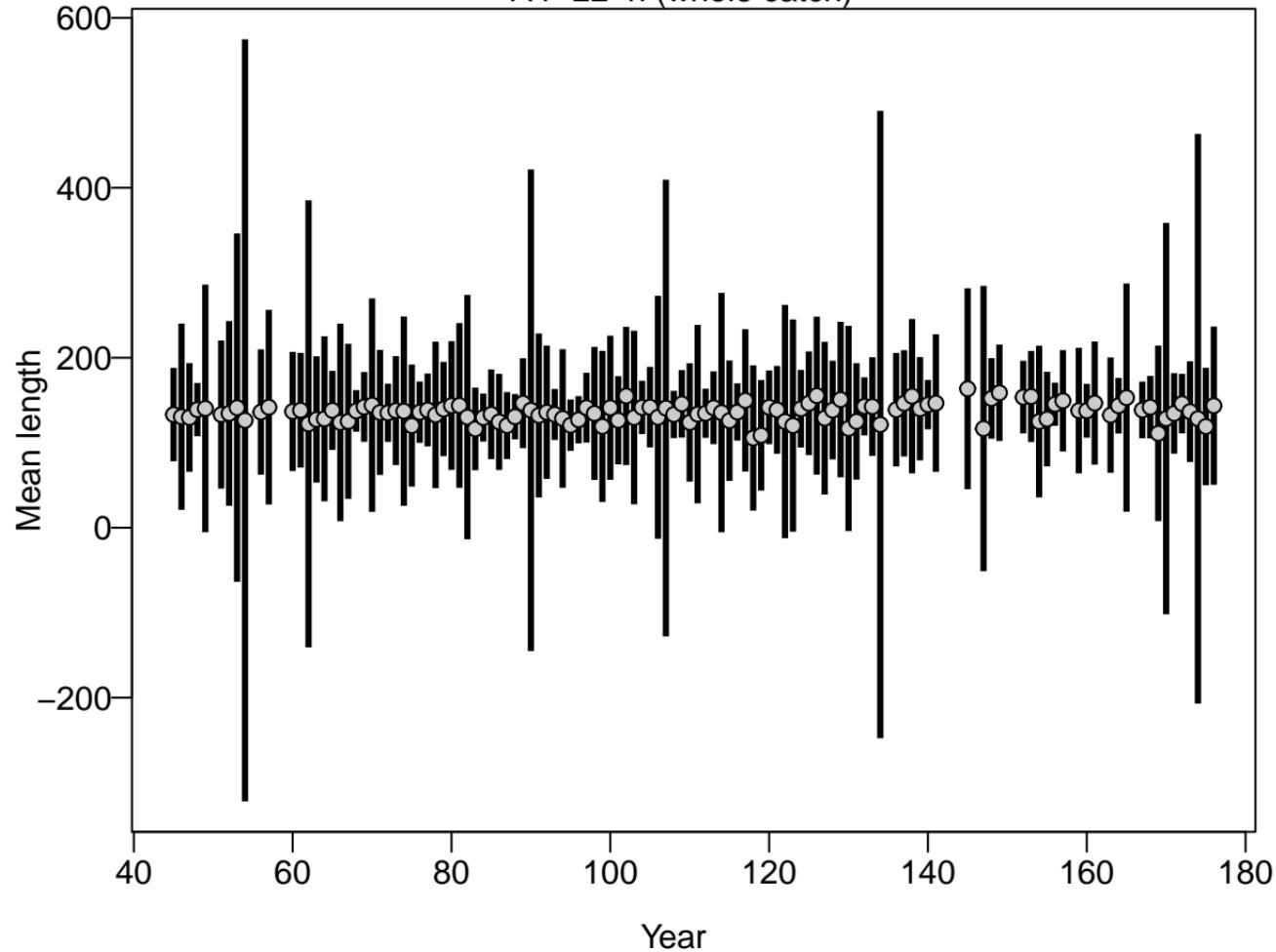


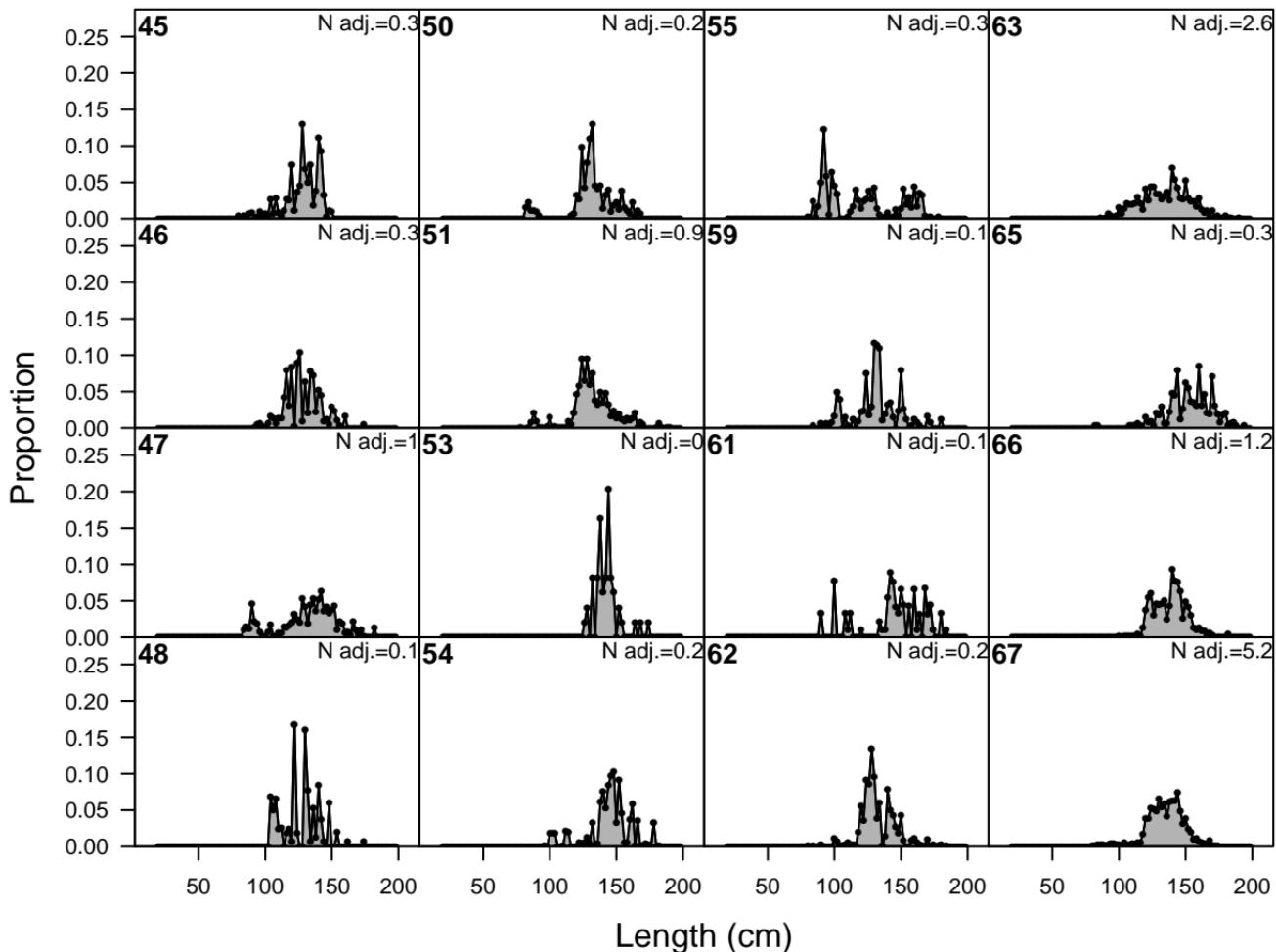




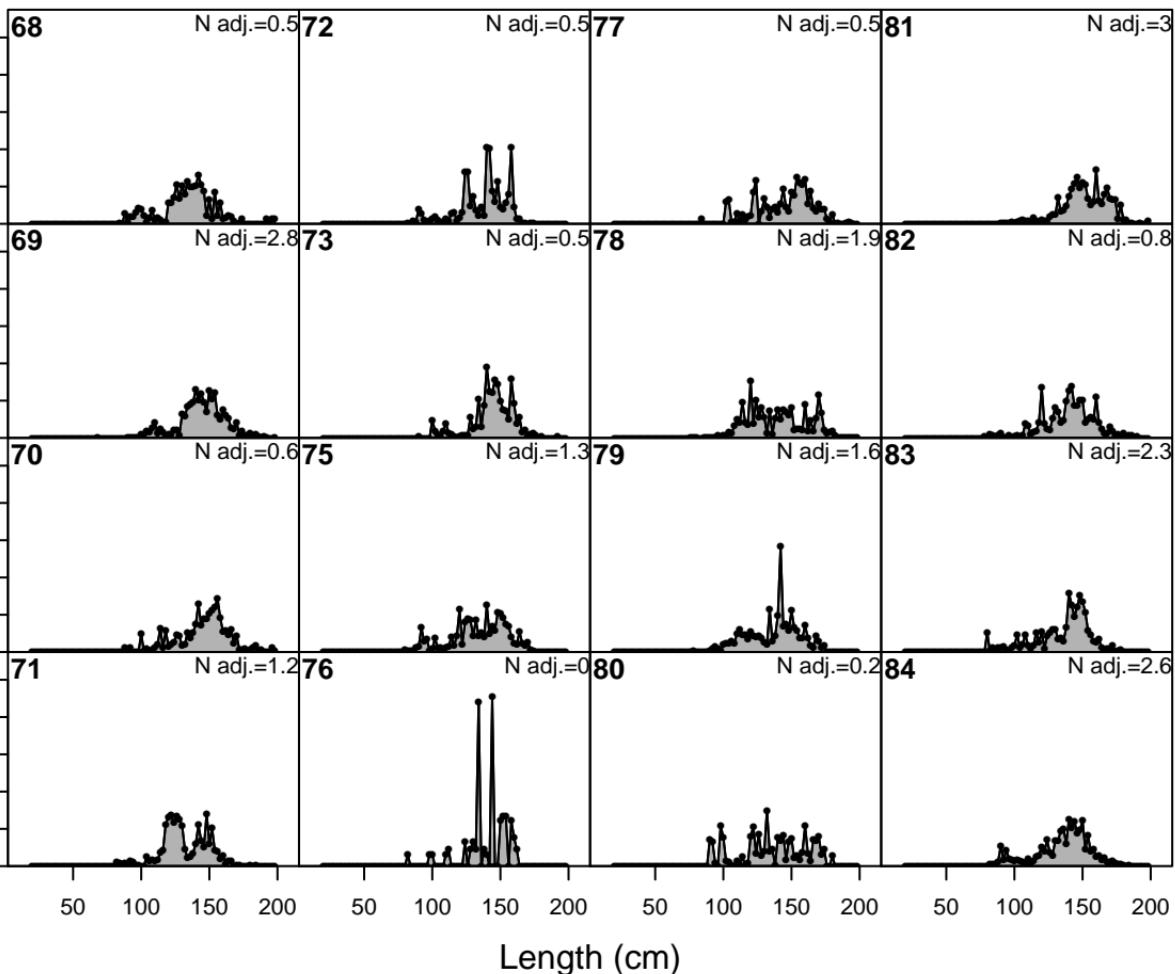


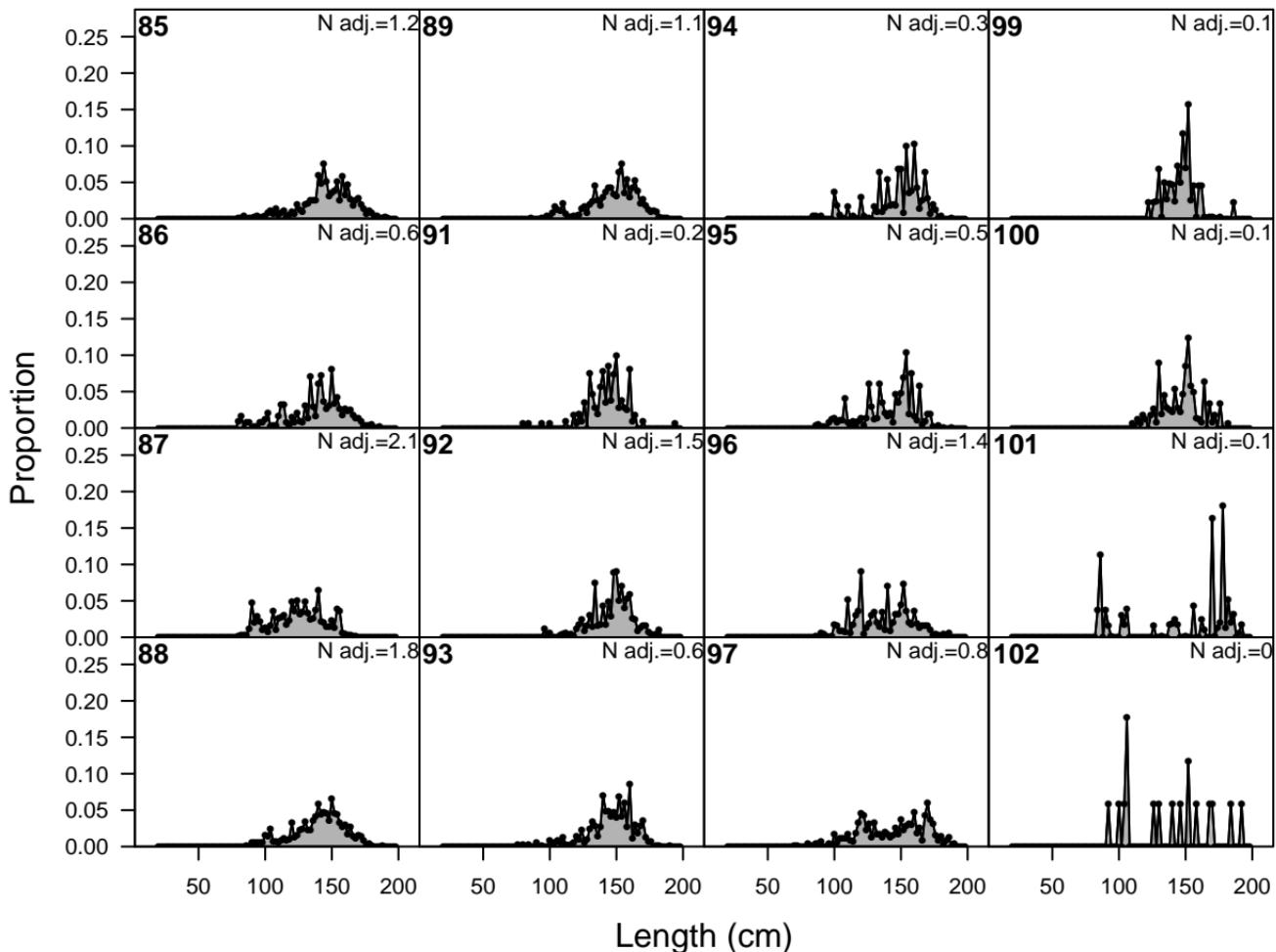
### A4-LL-n (whole catch)



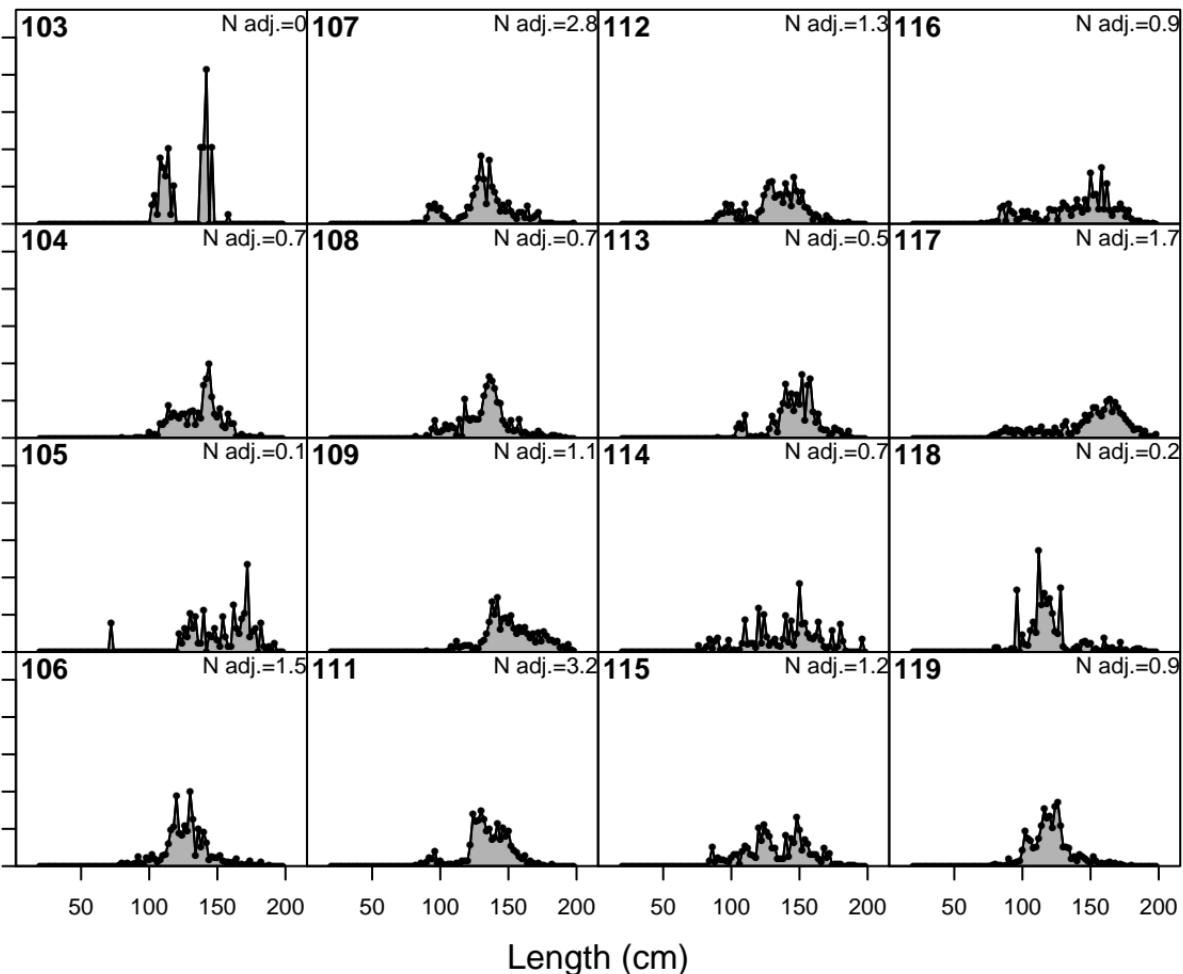


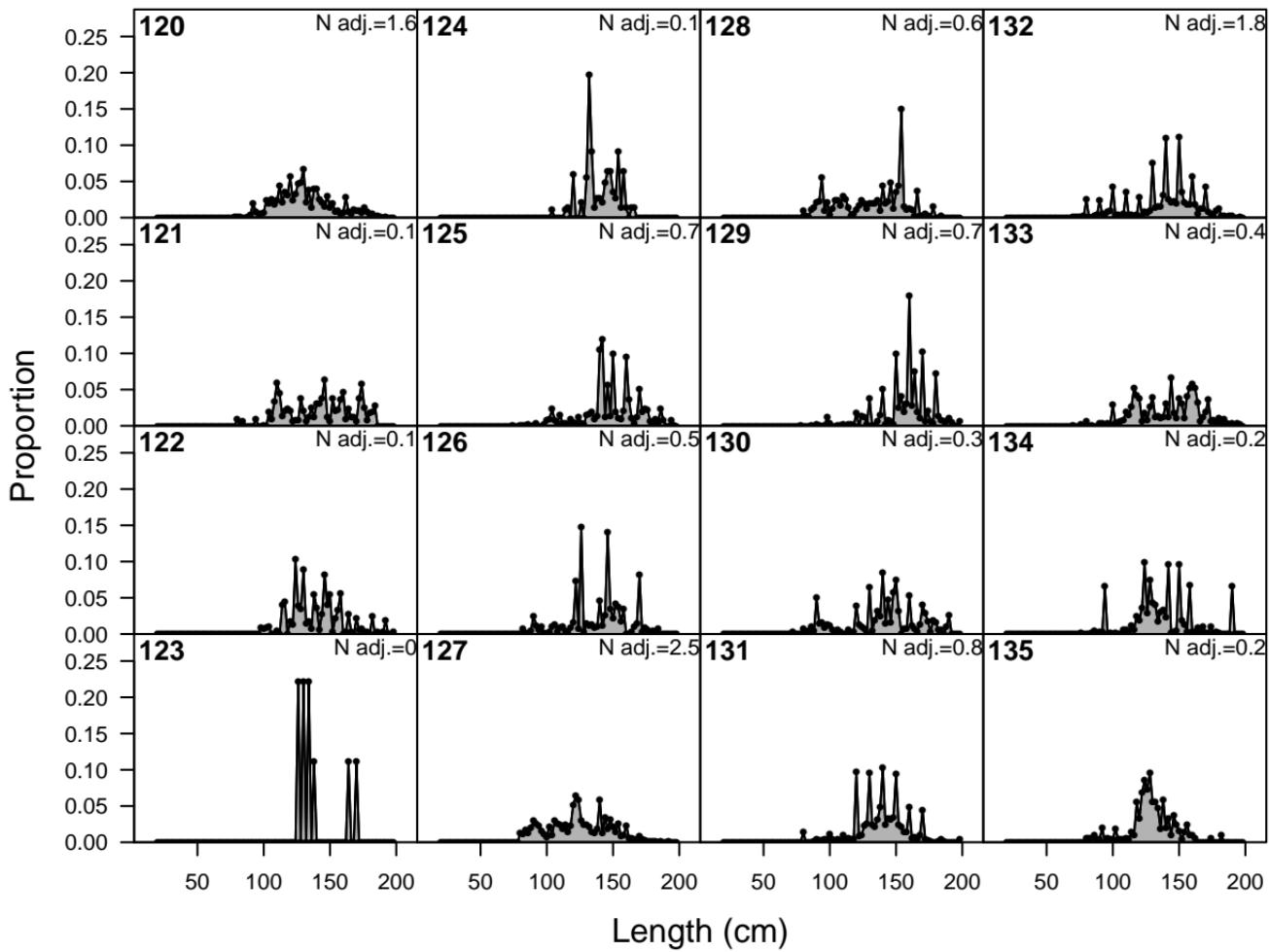
Proportion

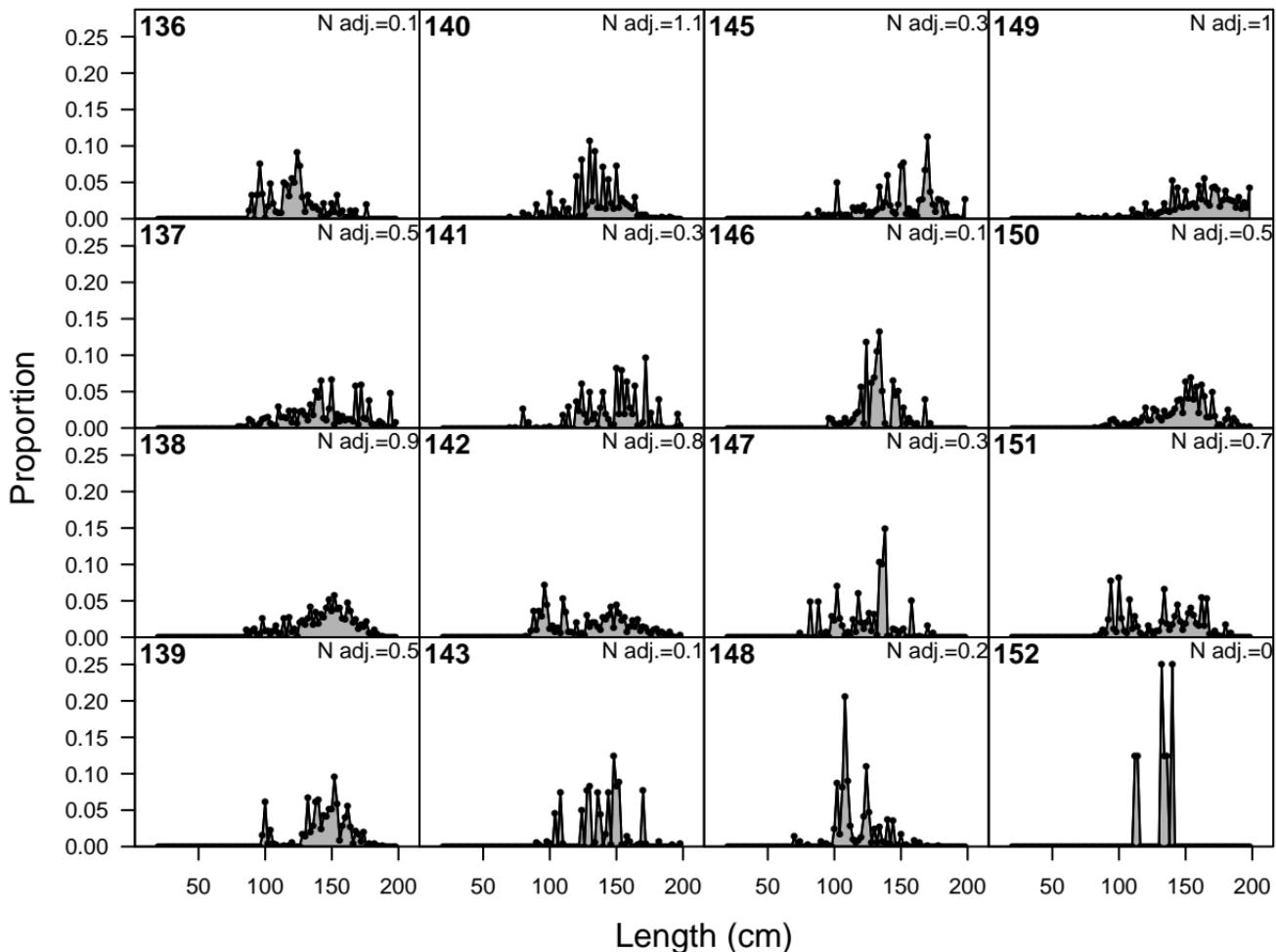


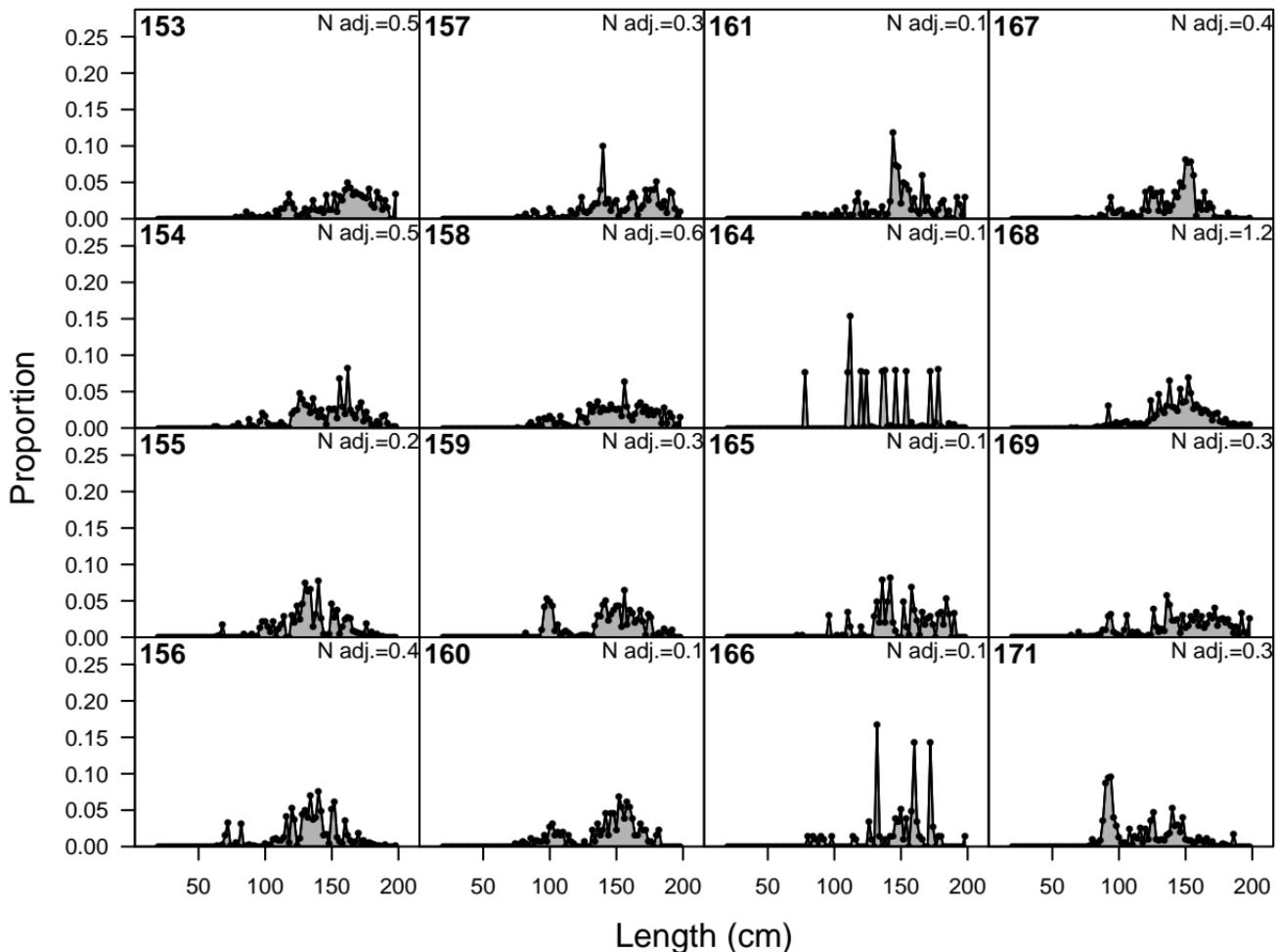


Proportion

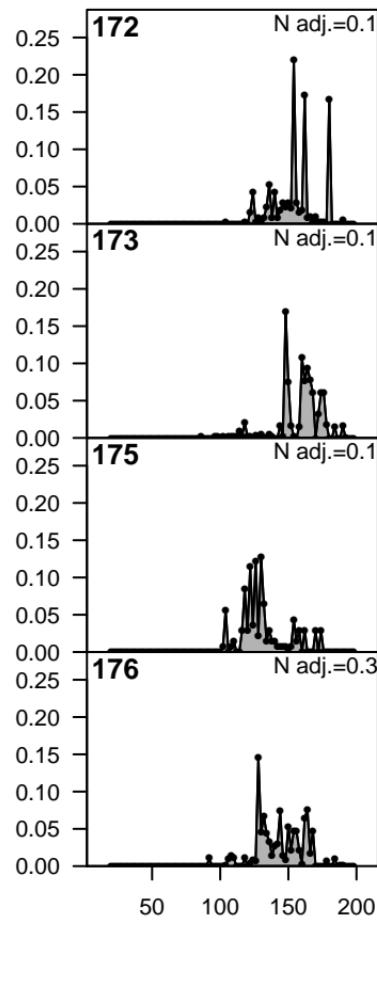


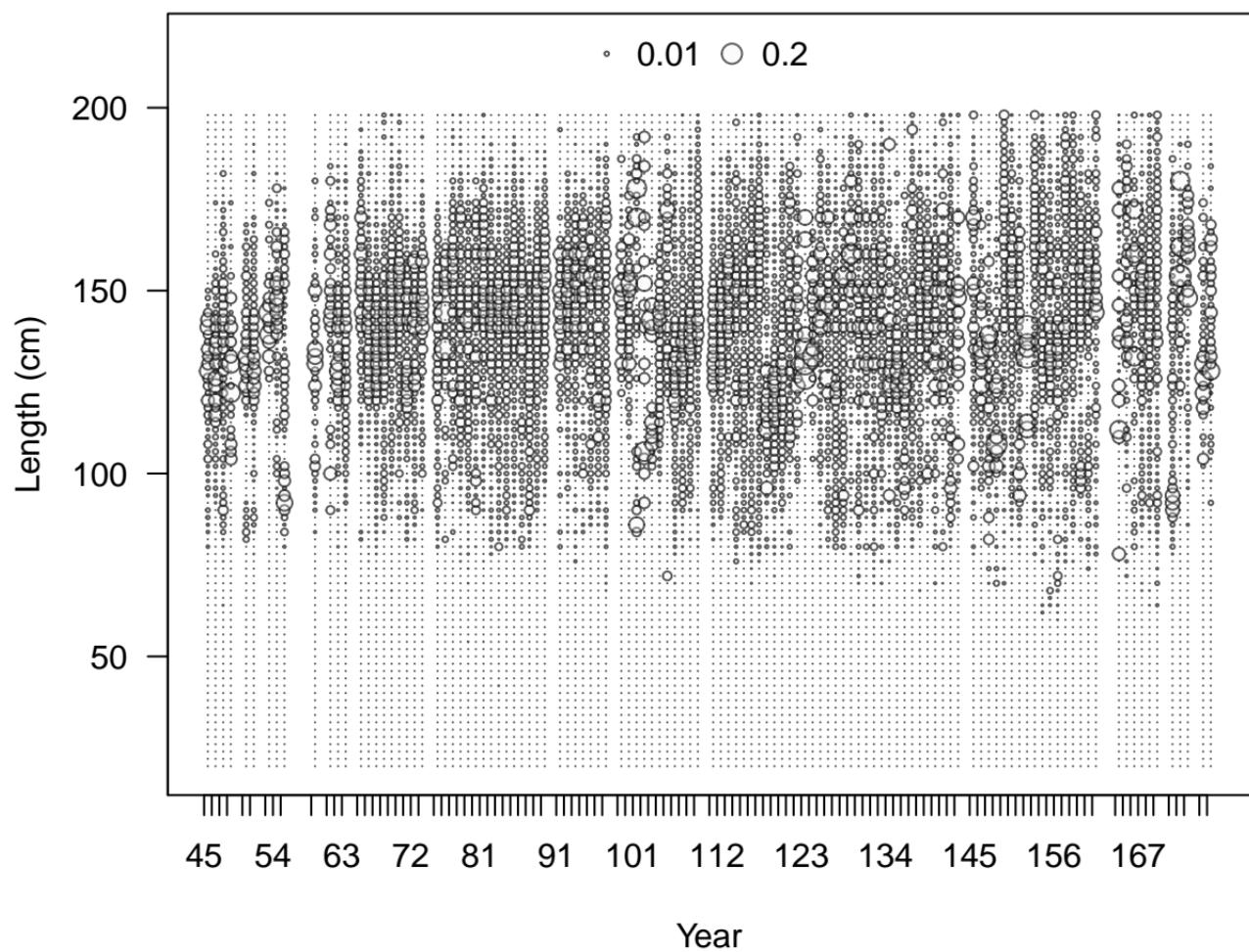




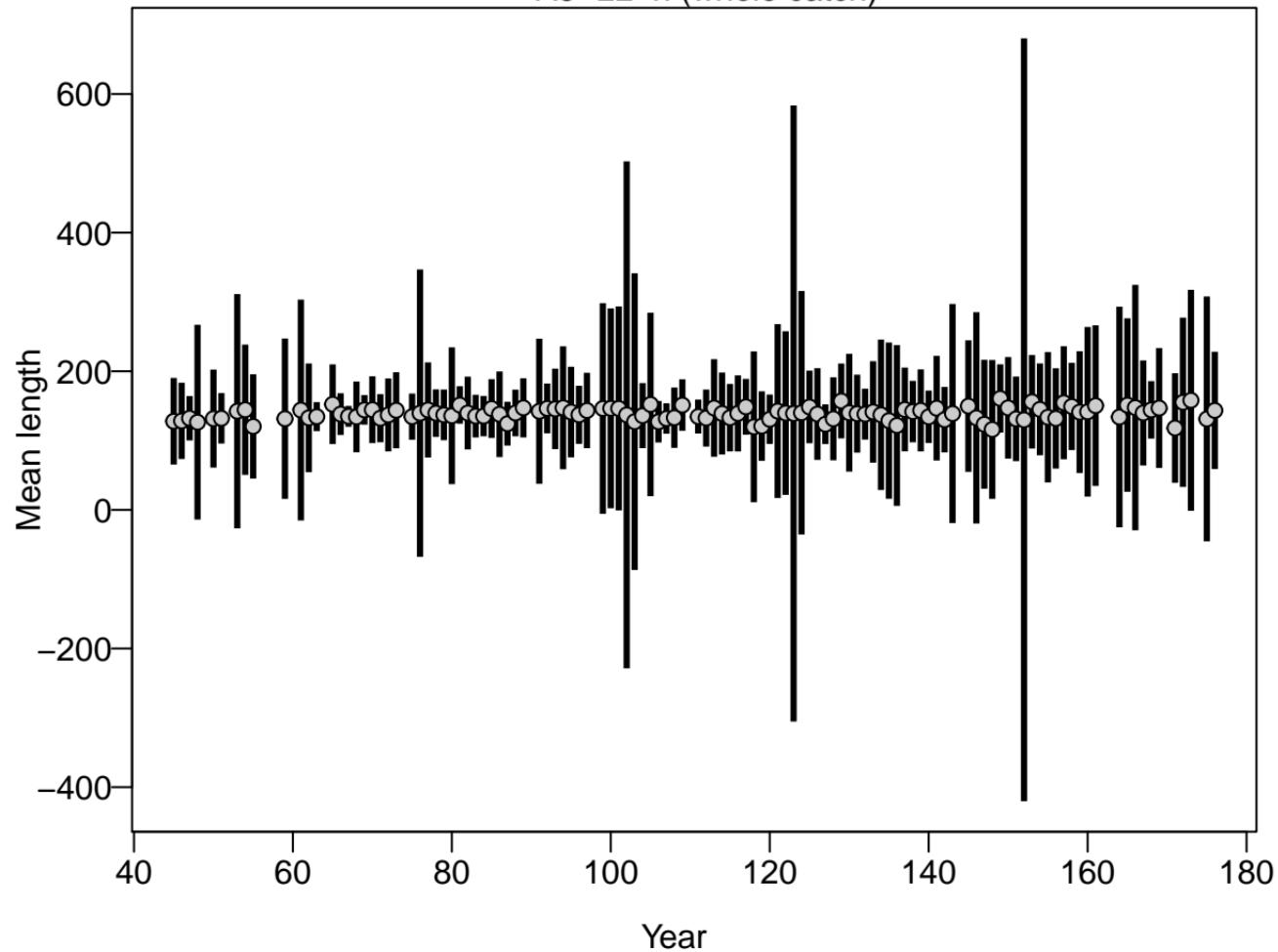


Proportion

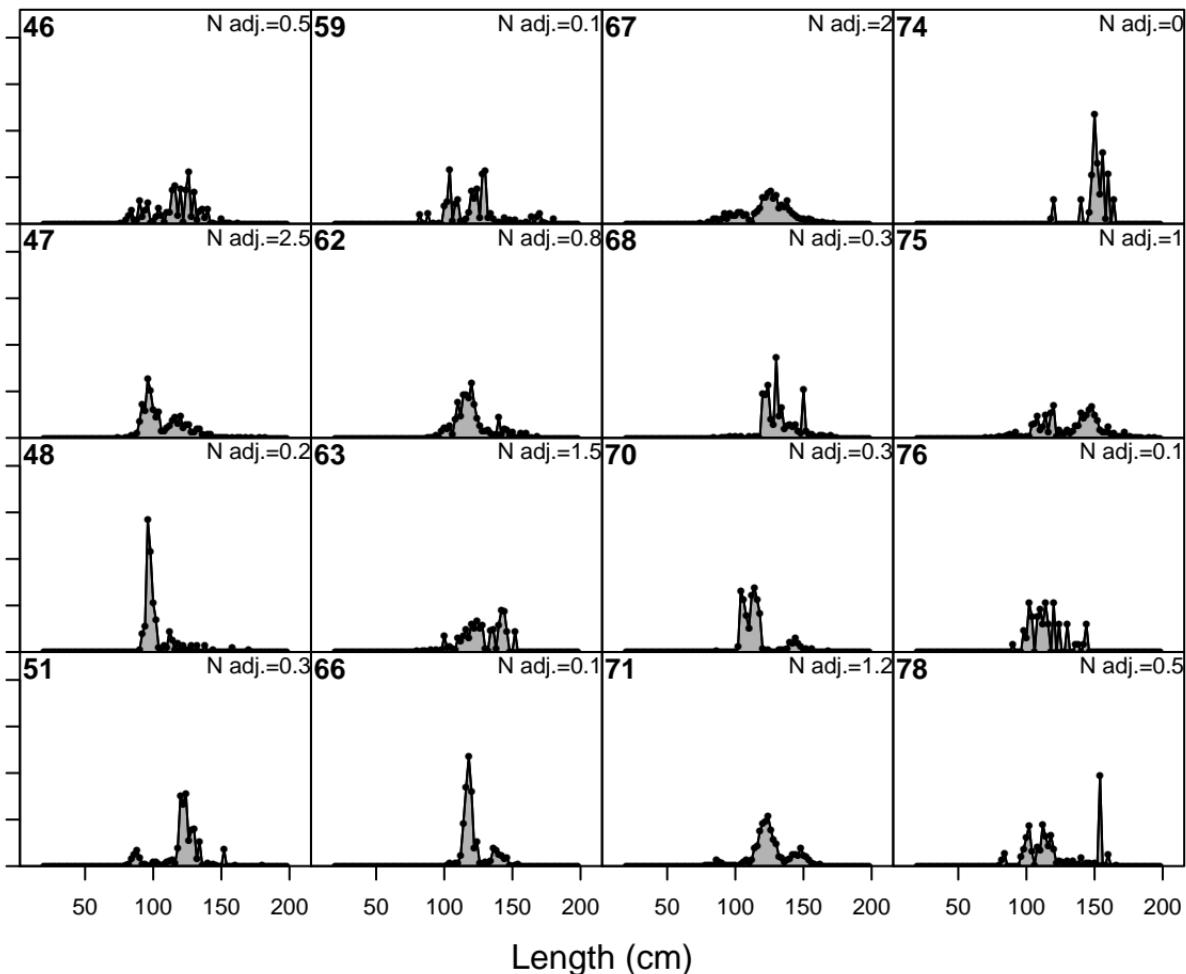




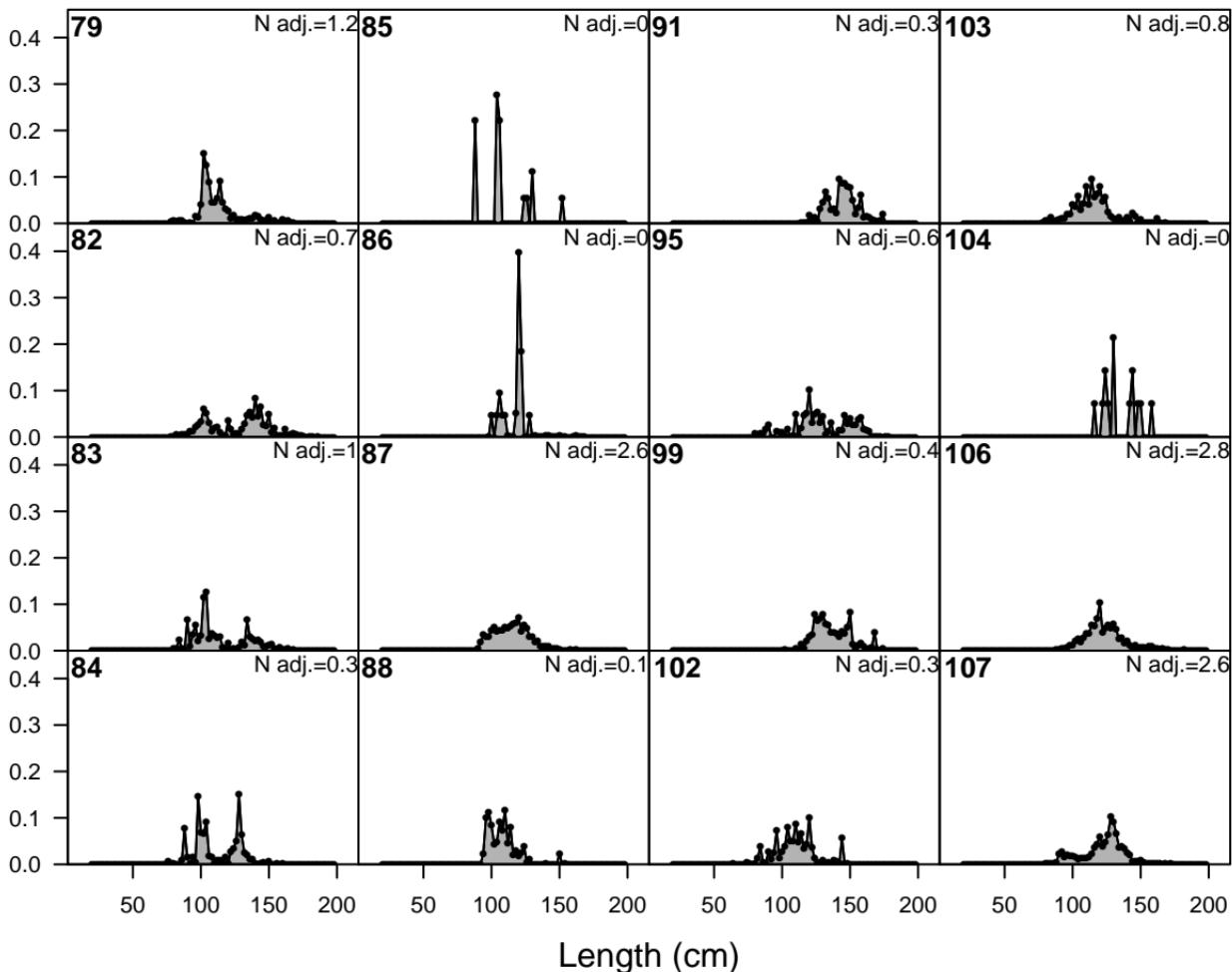
A5-LL-n (whole catch)

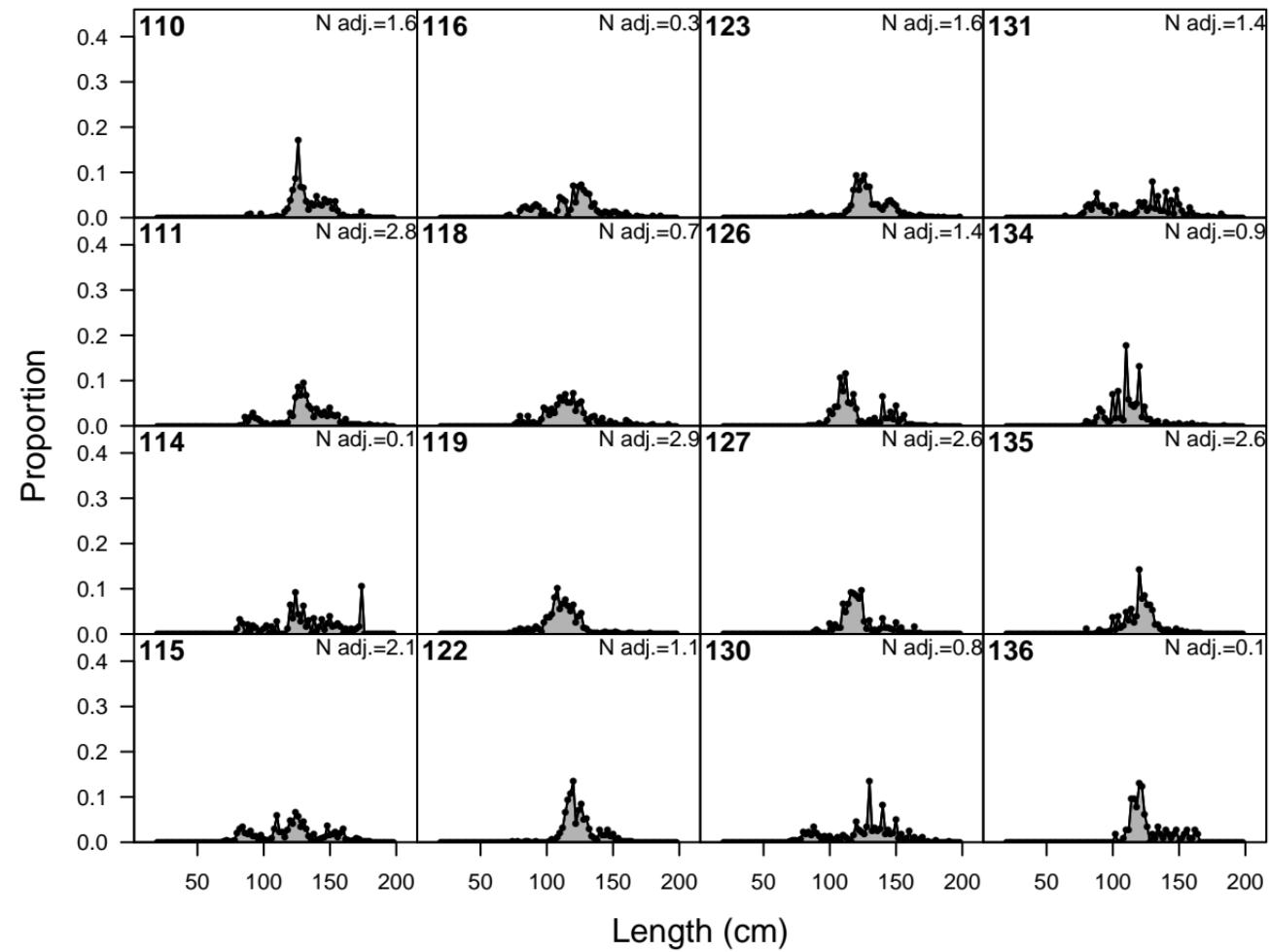


Proportion

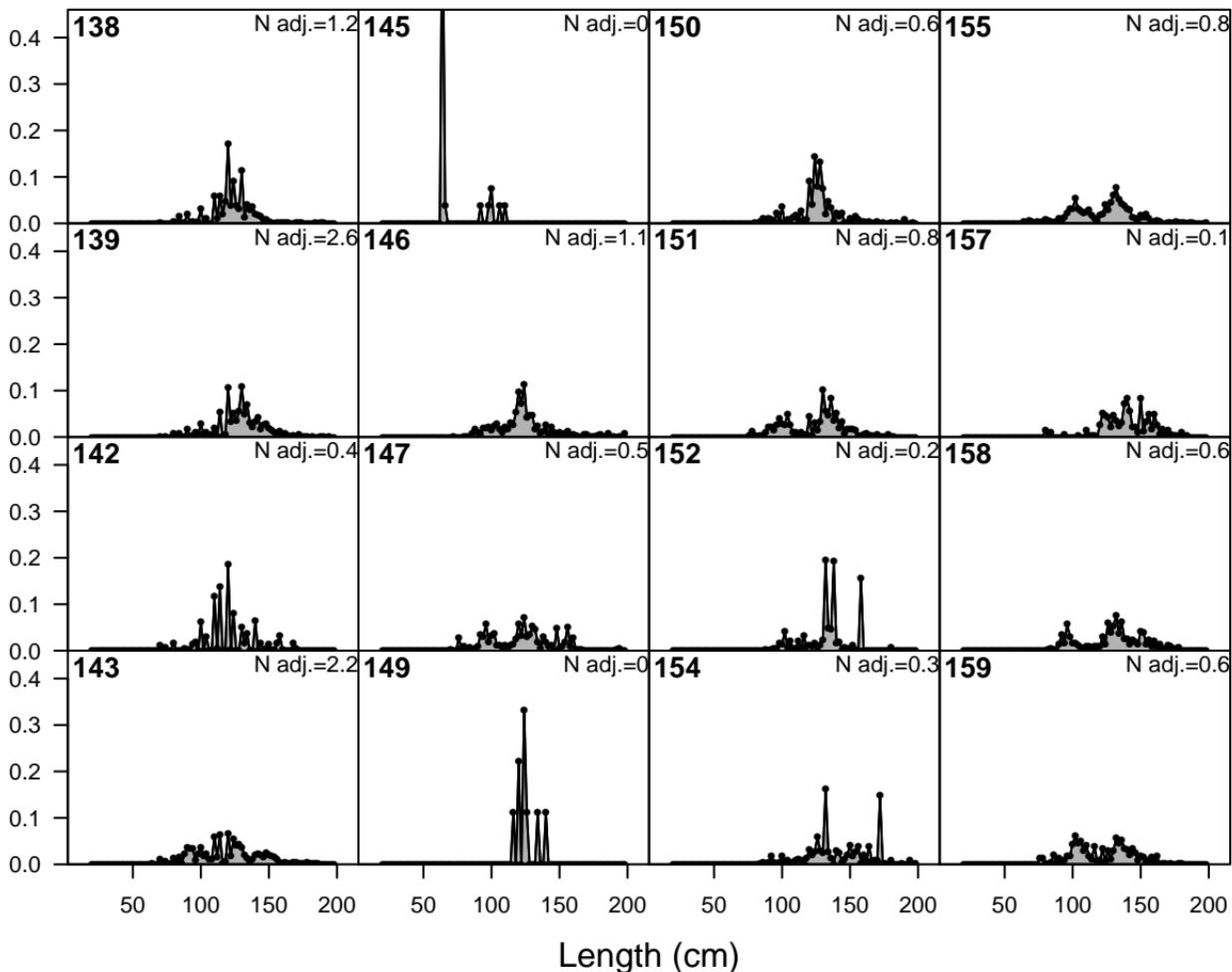


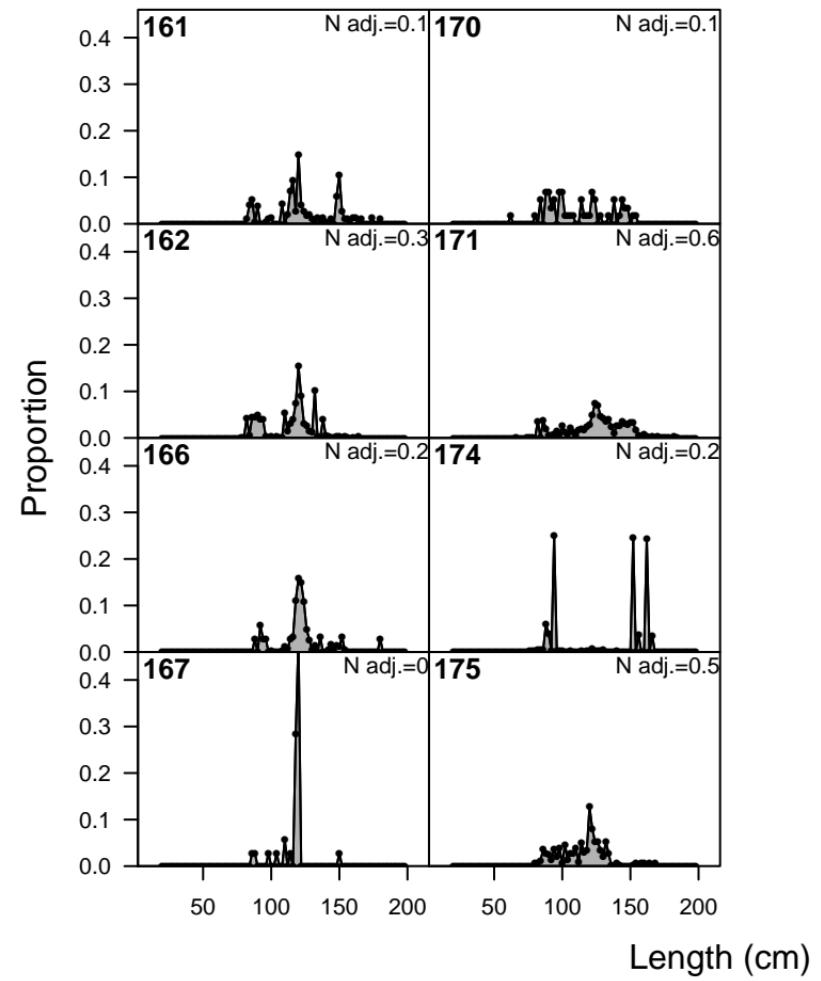
Proportion

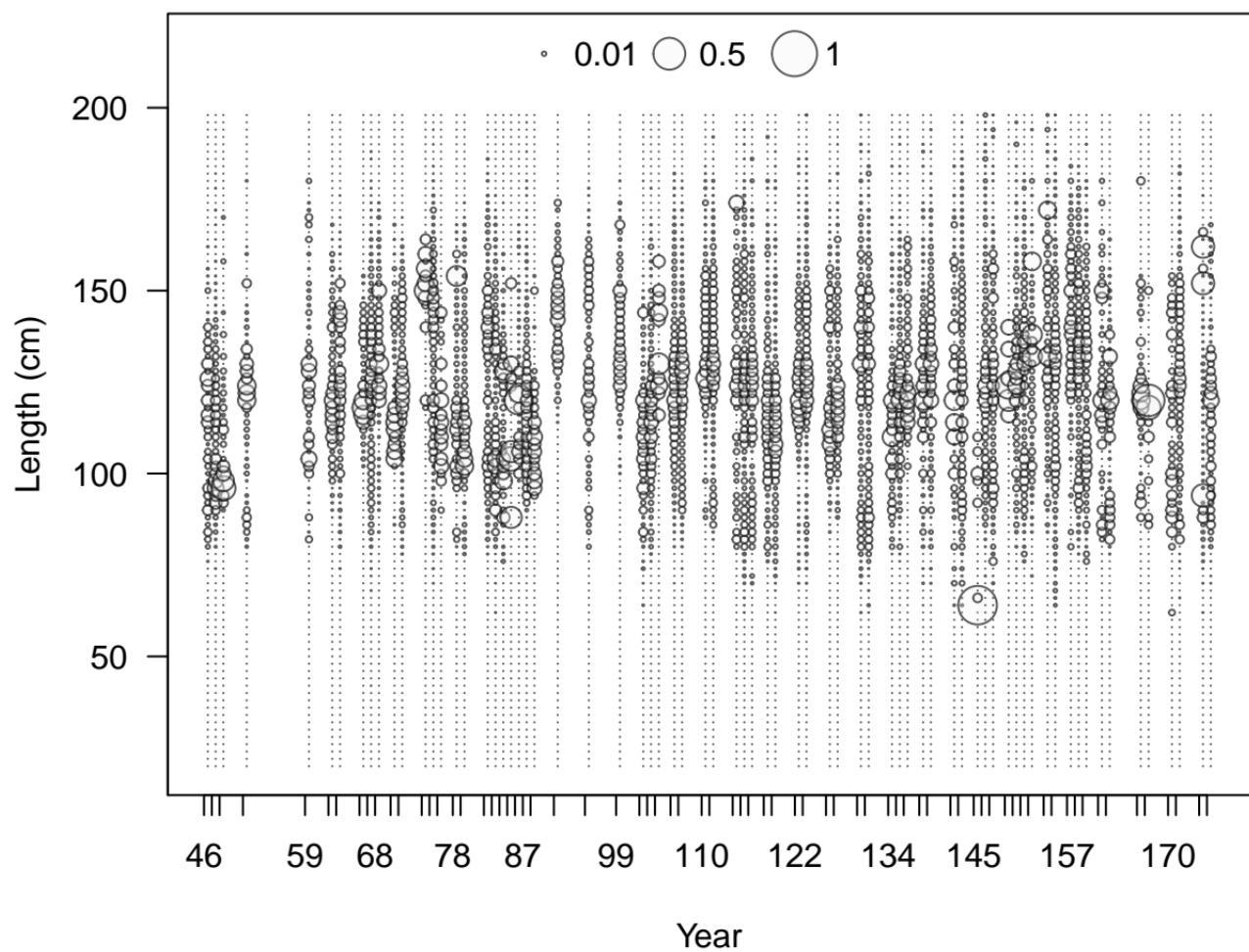




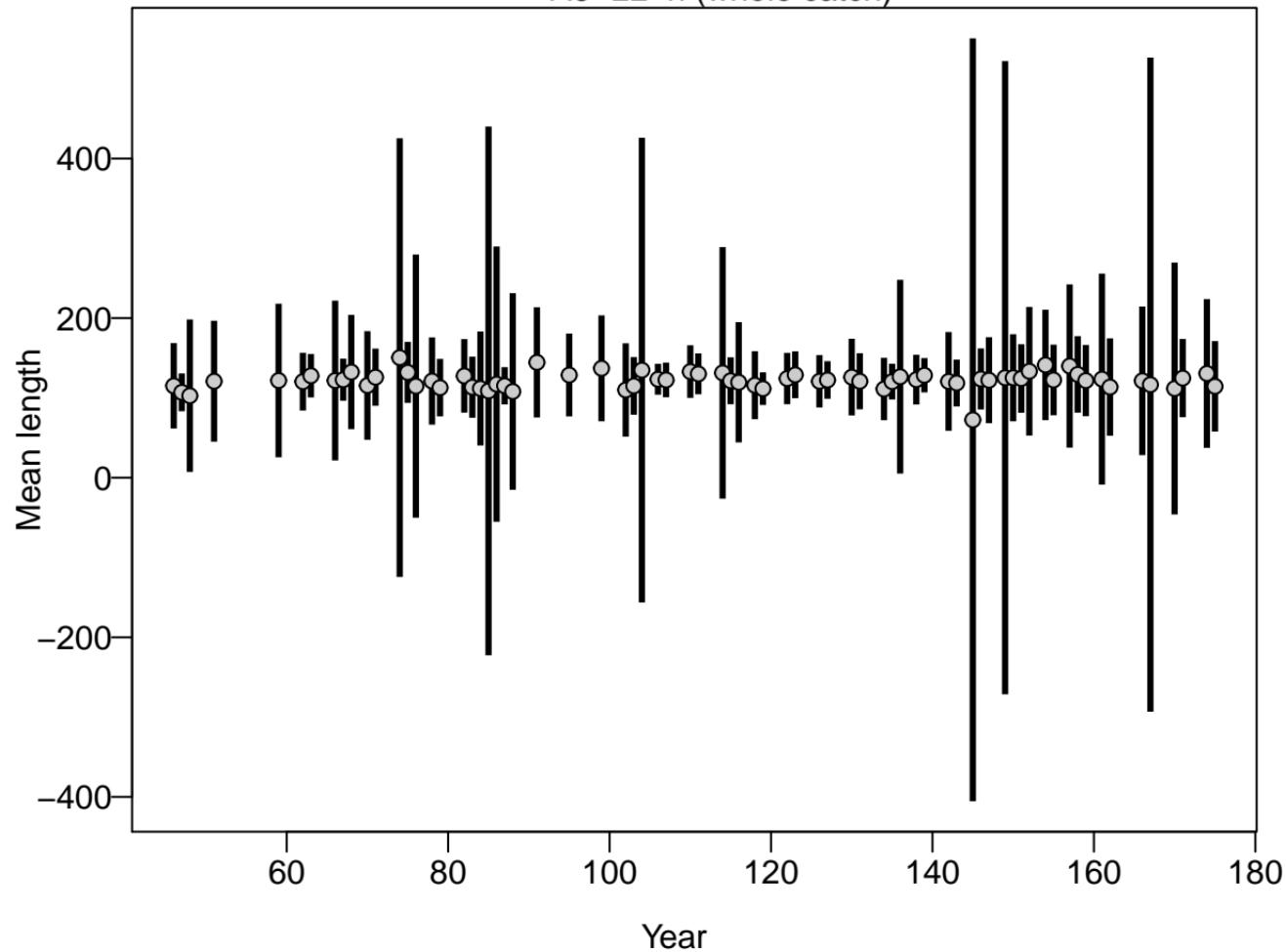
Proportion



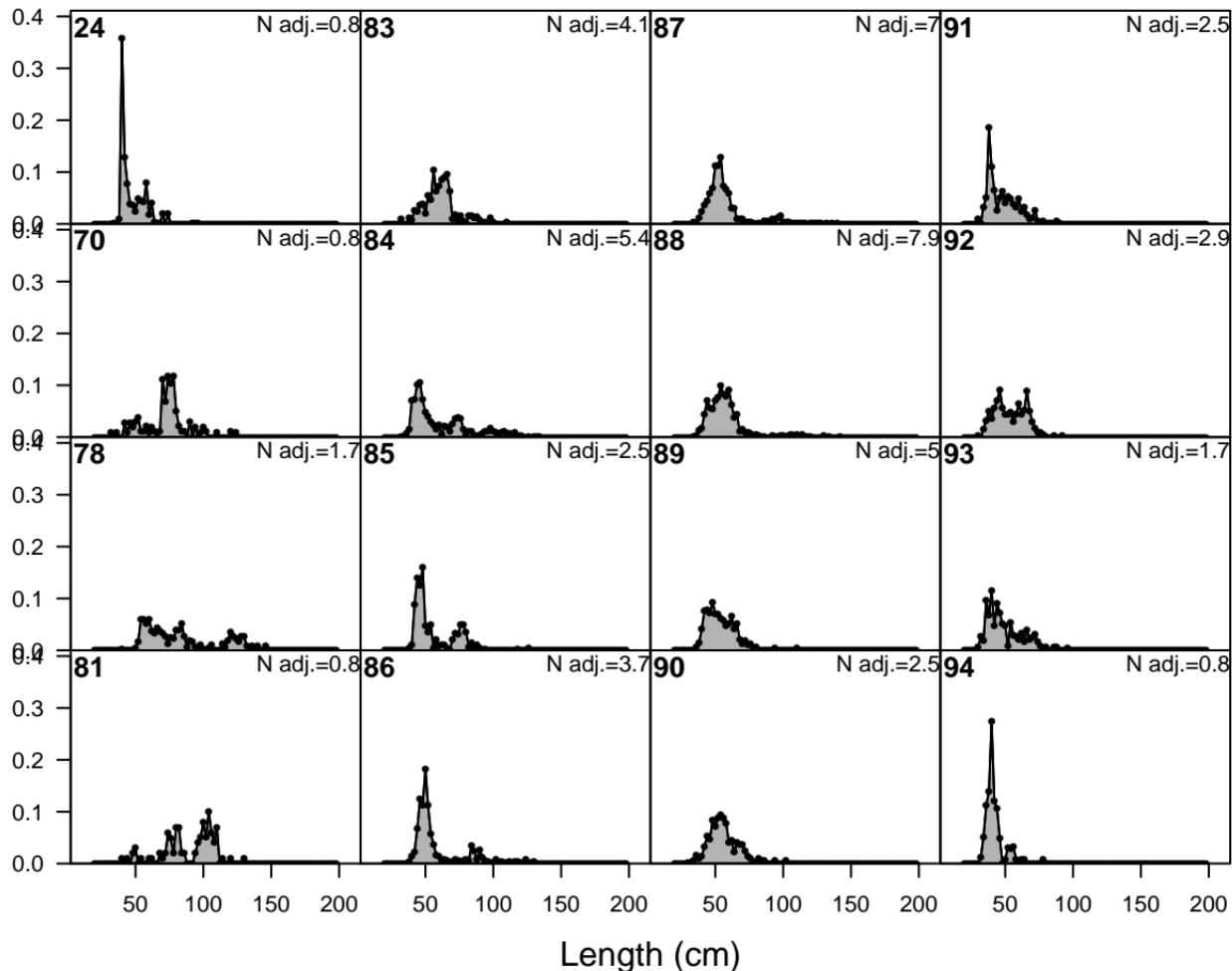




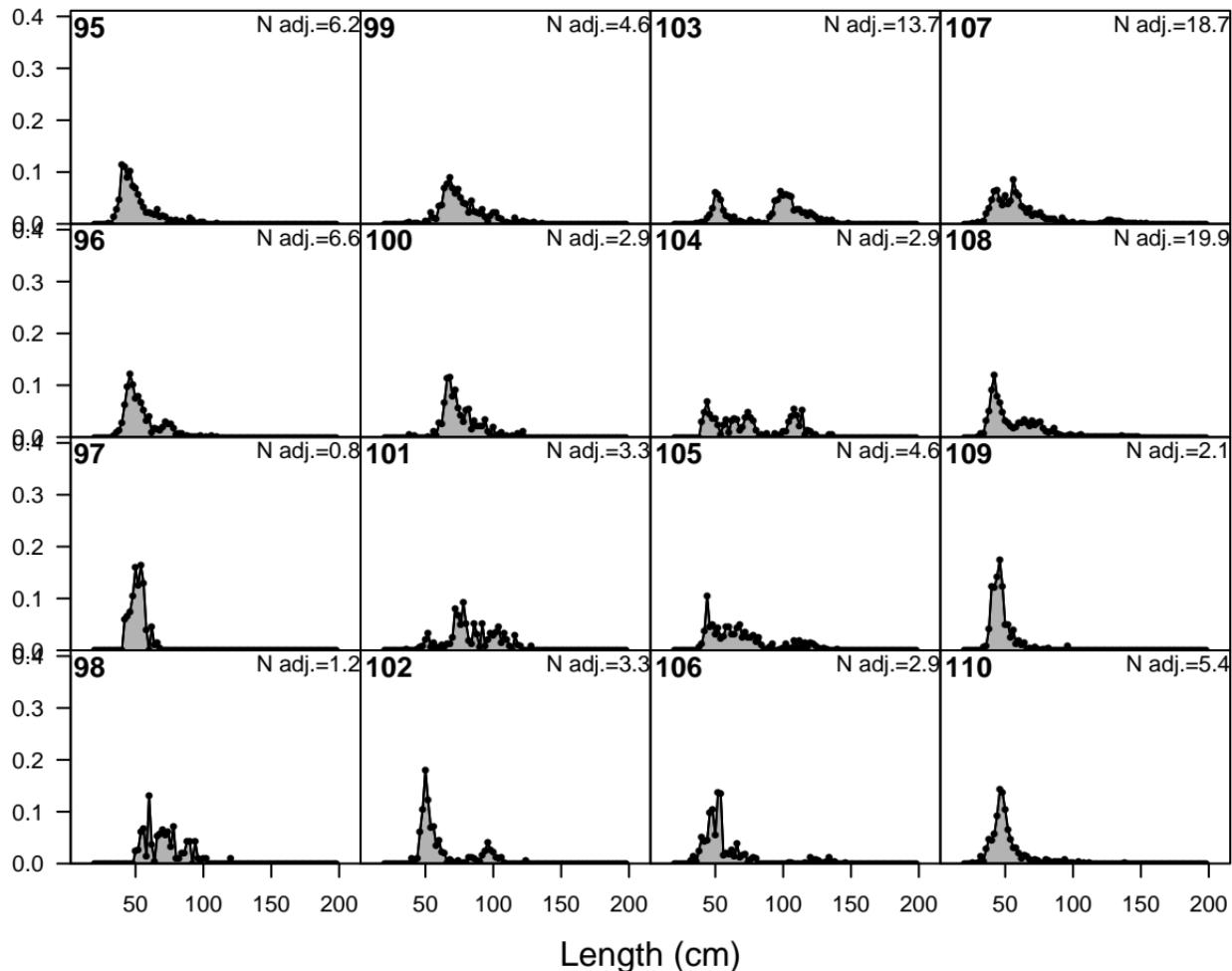
A6-LL-n (whole catch)



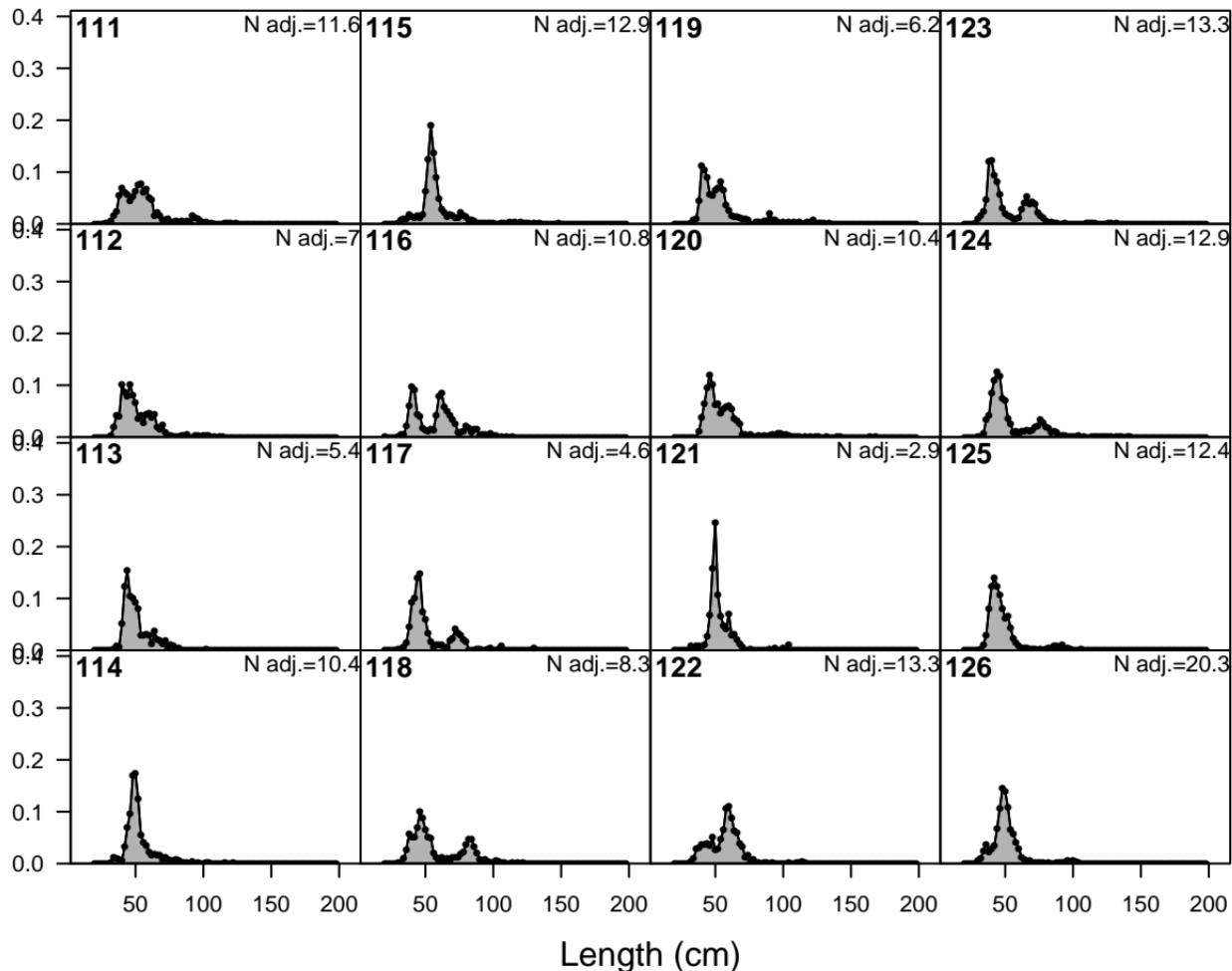
Proportion



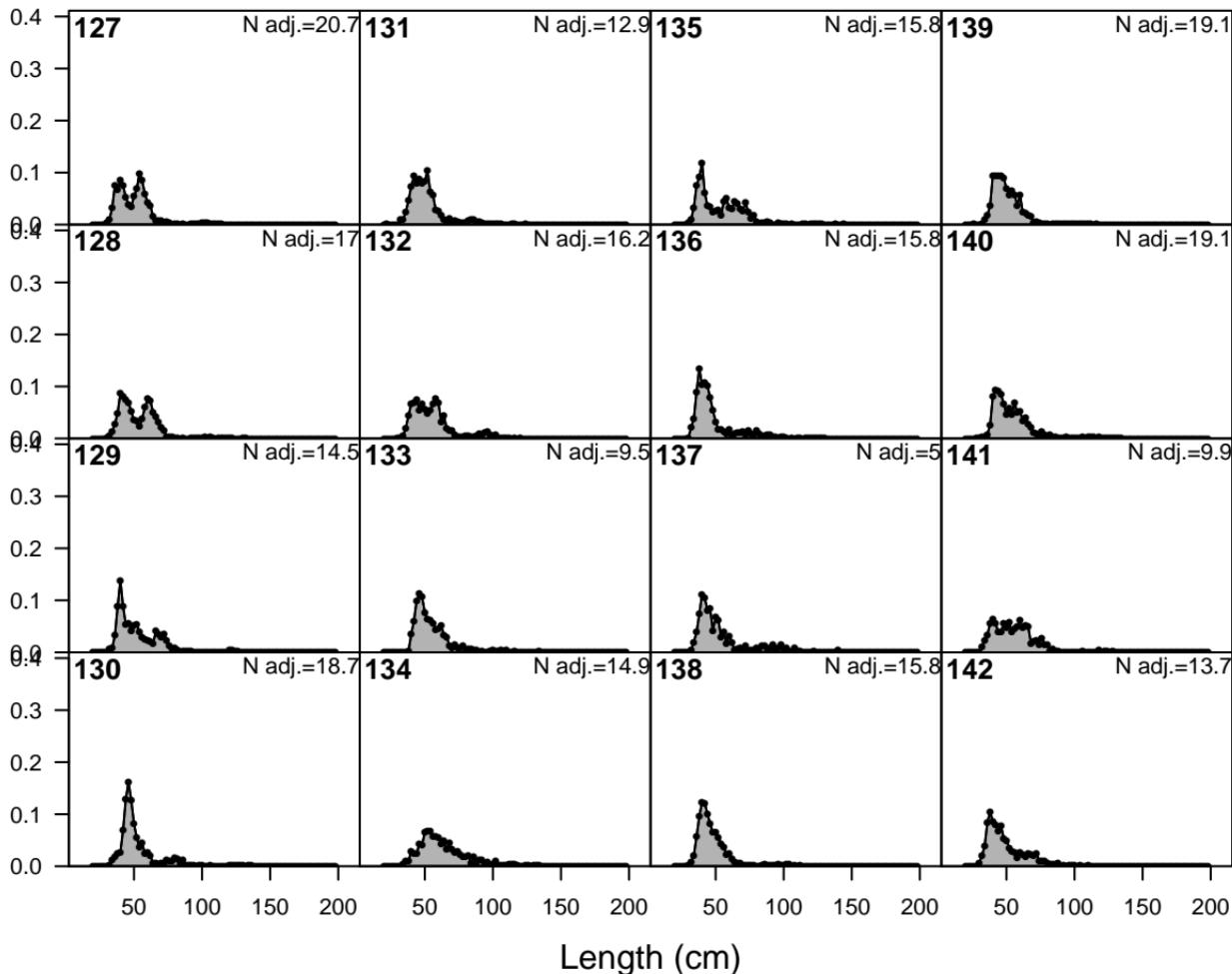
Proportion

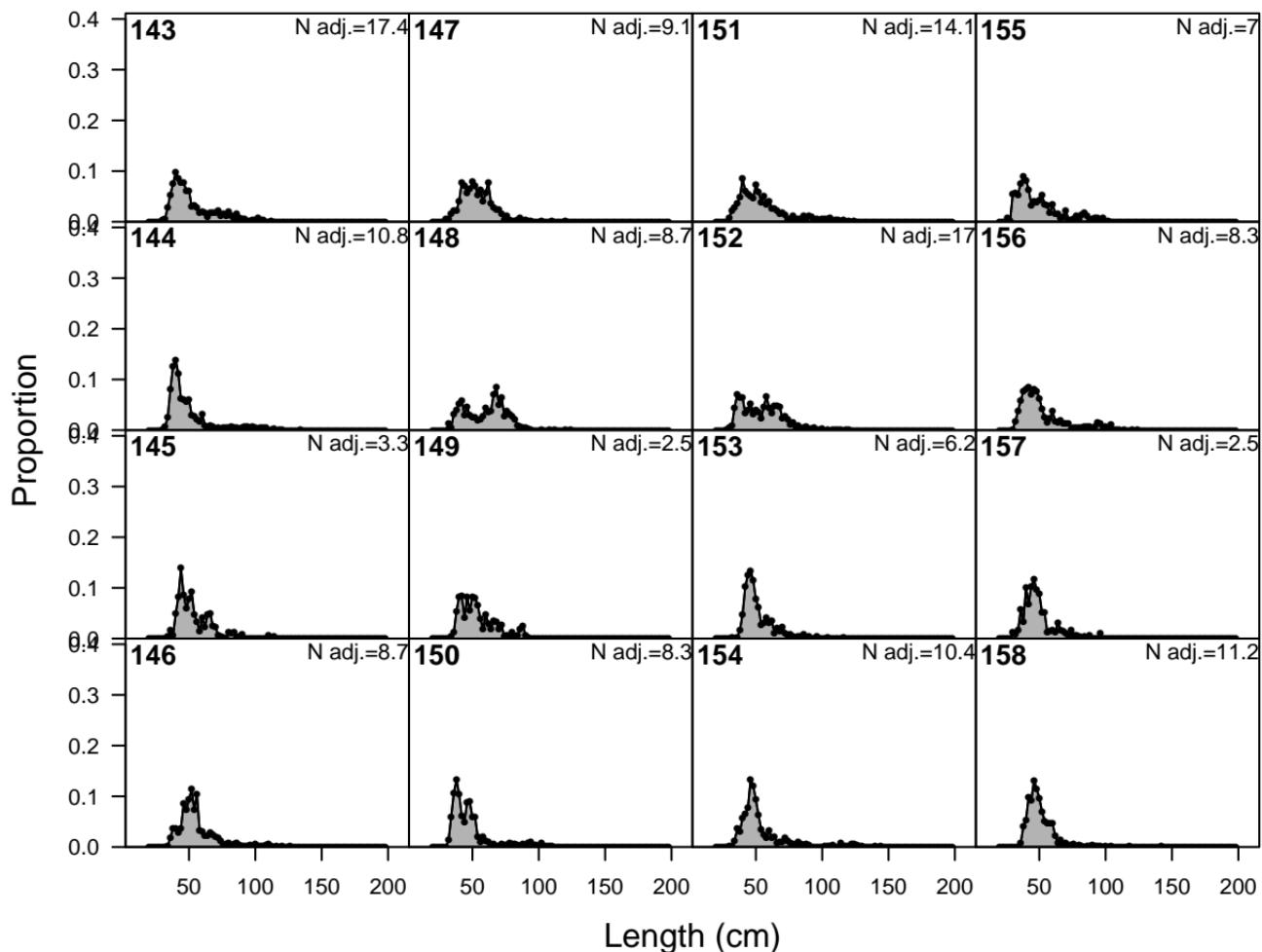


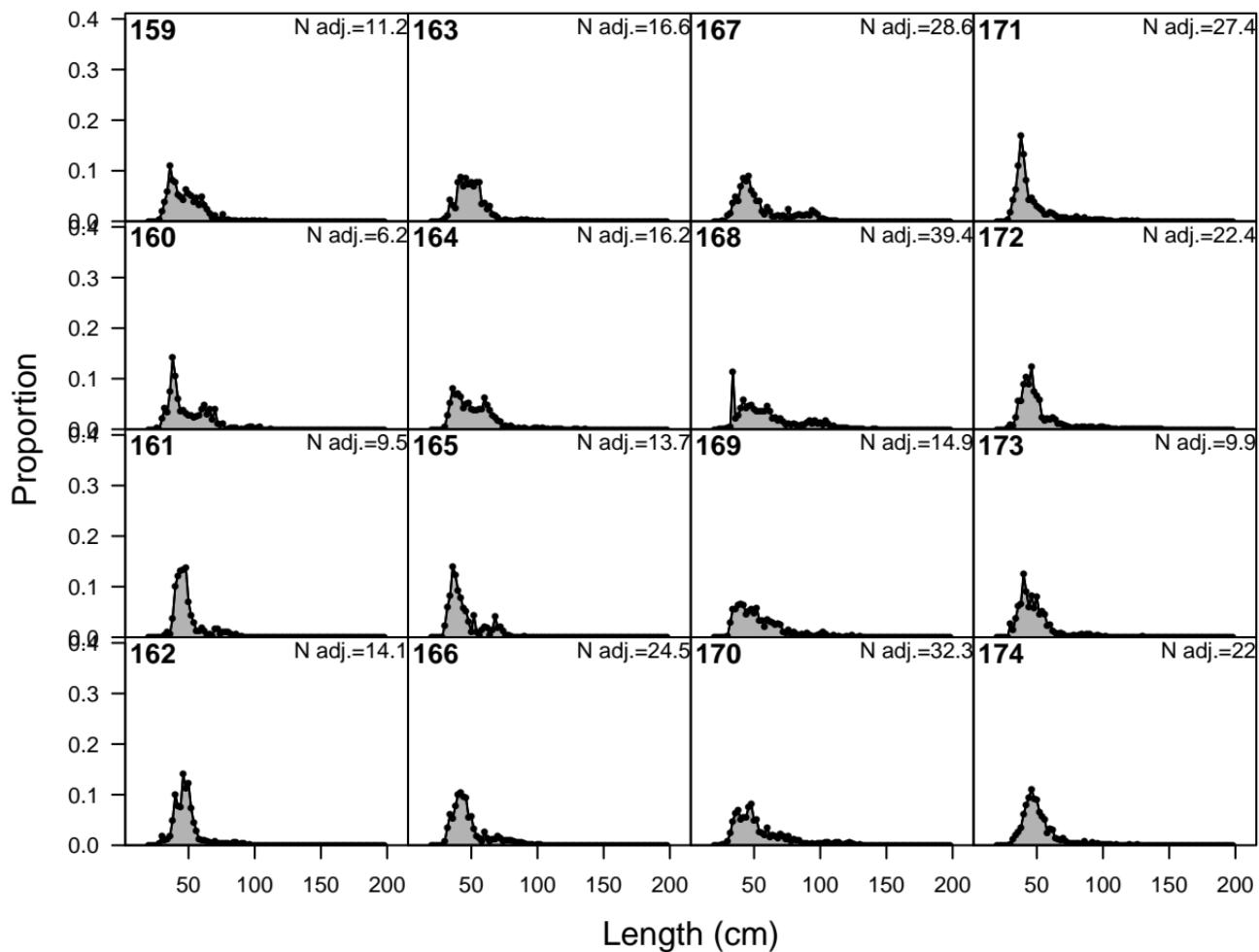
Proportion

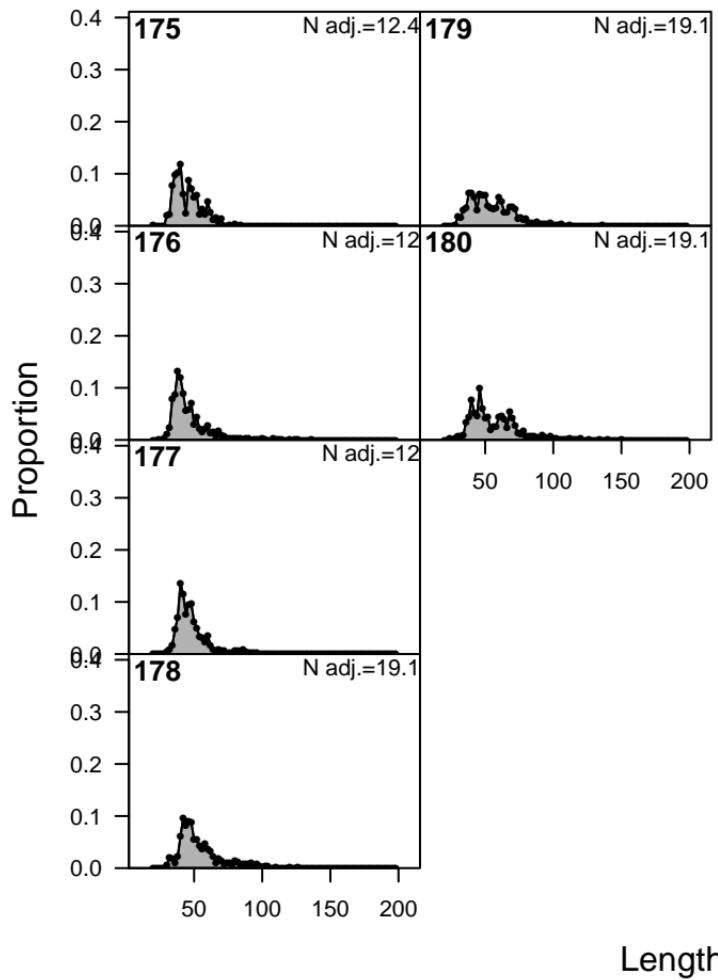


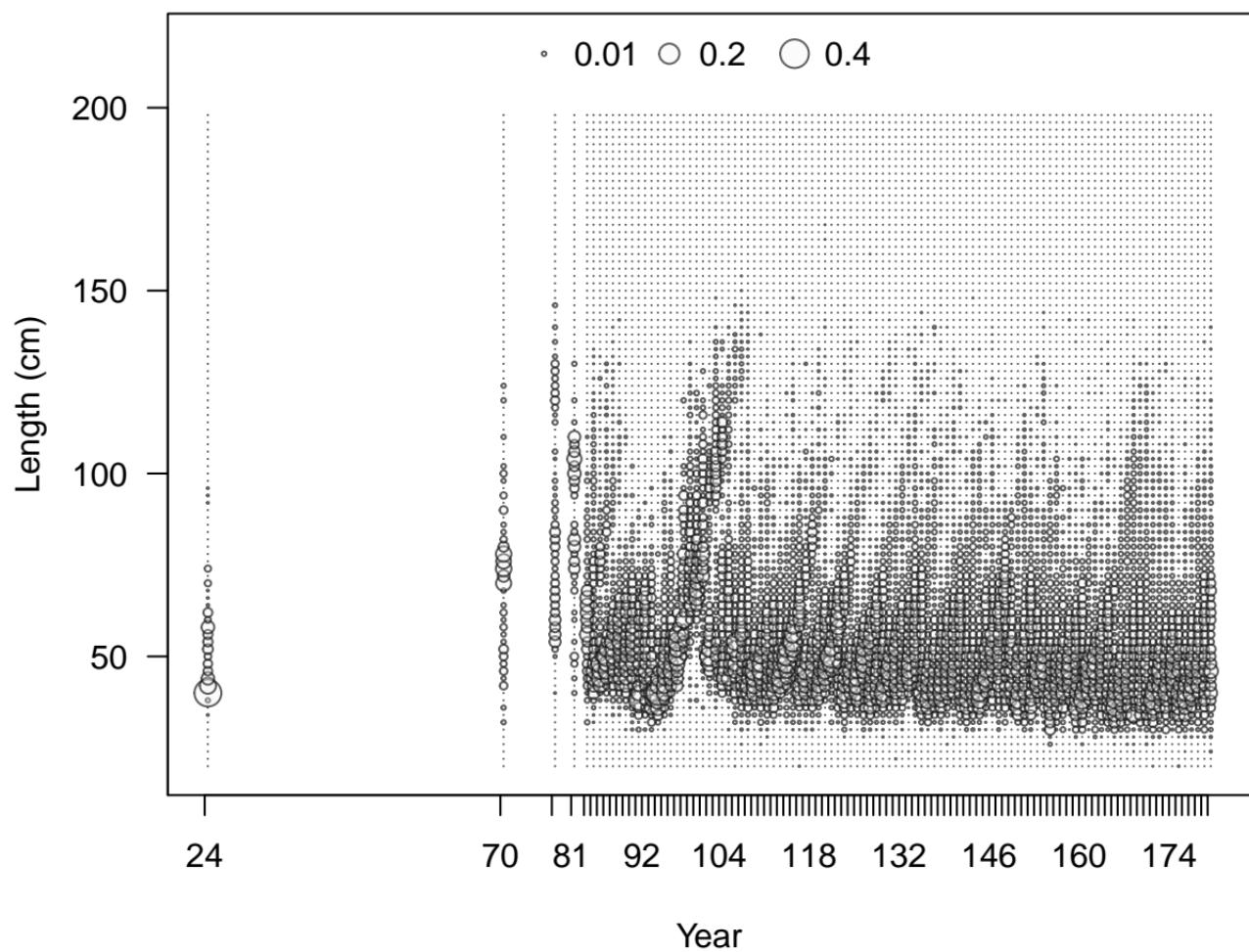
Proportion



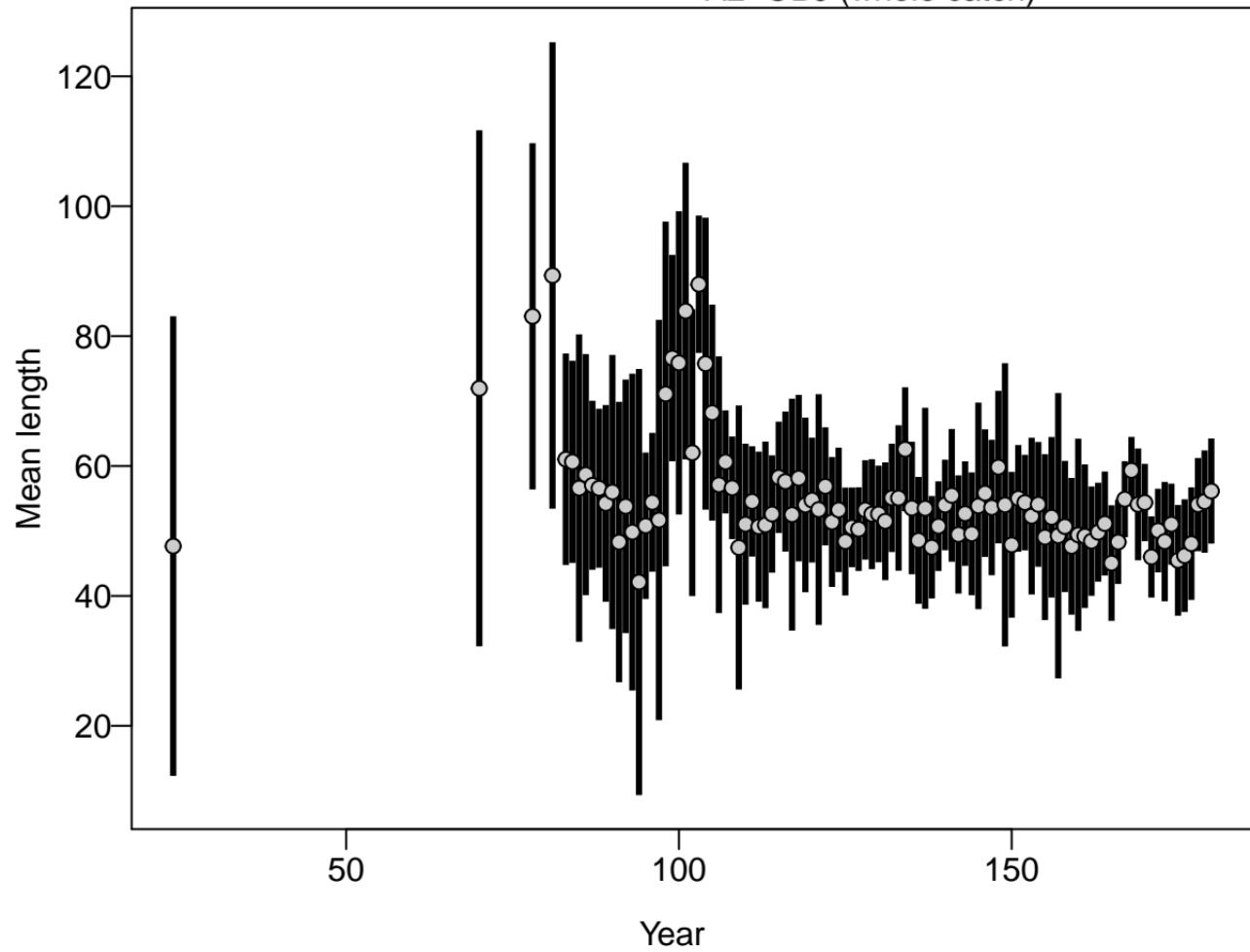




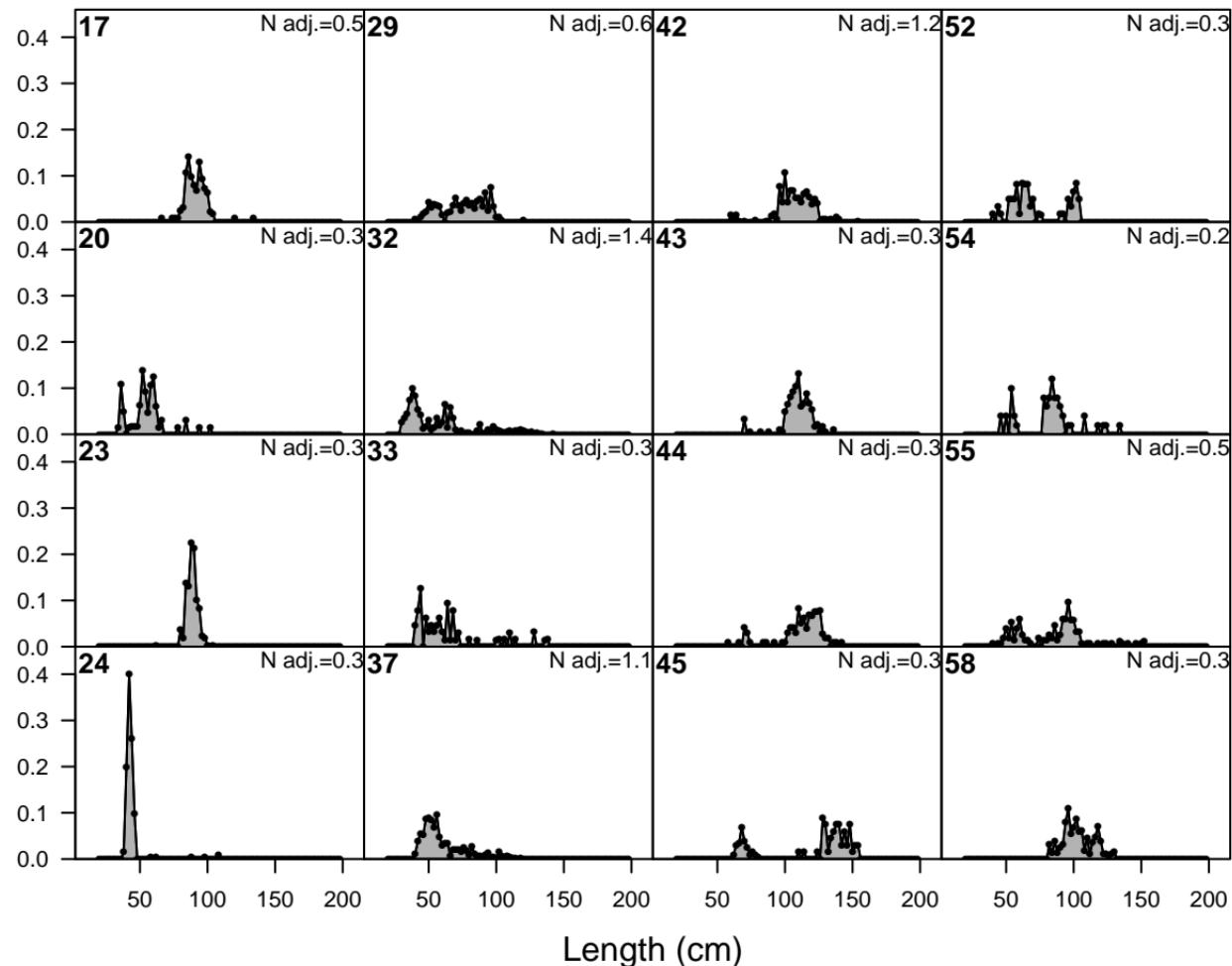




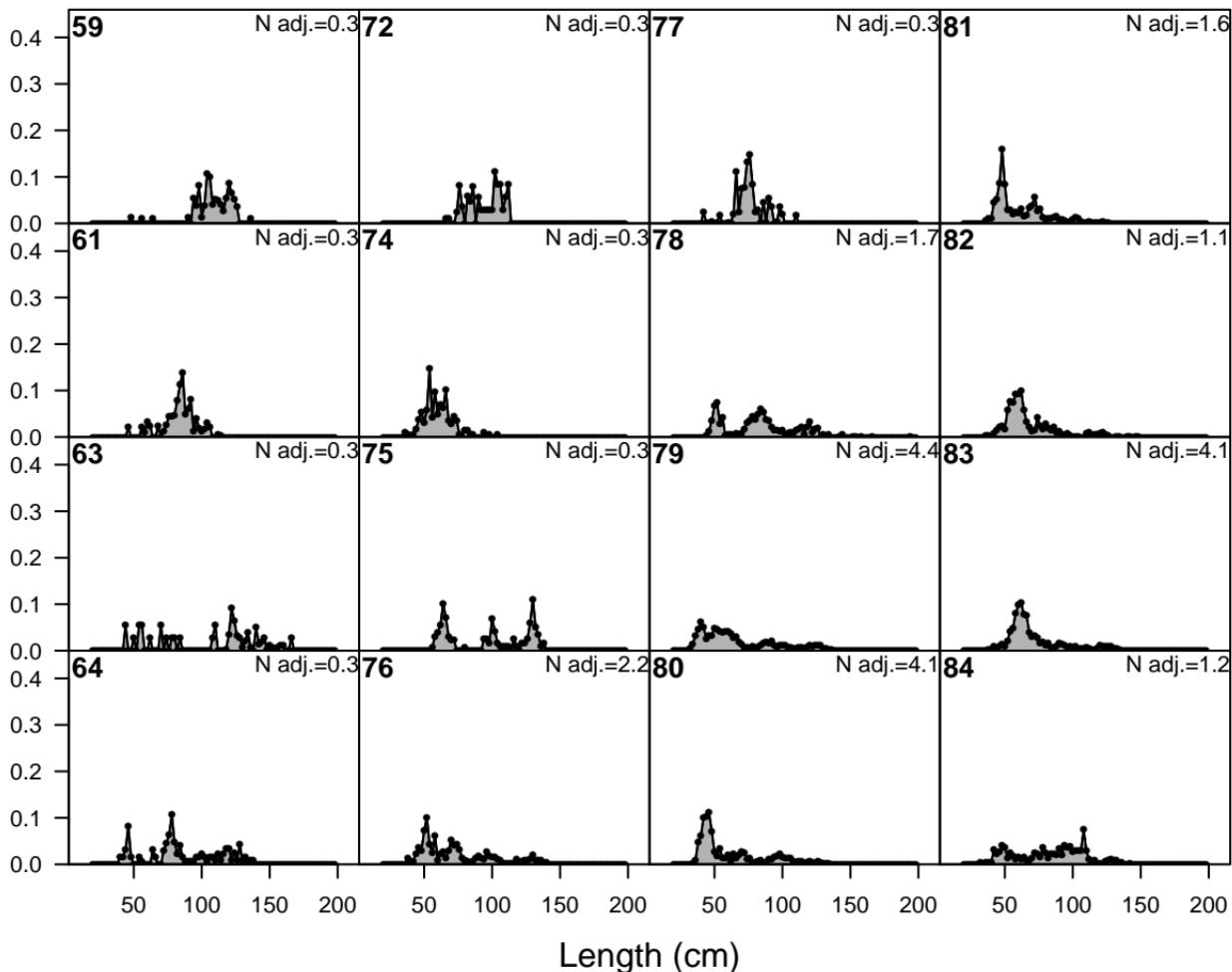
# A2-OBJ (whole catch)



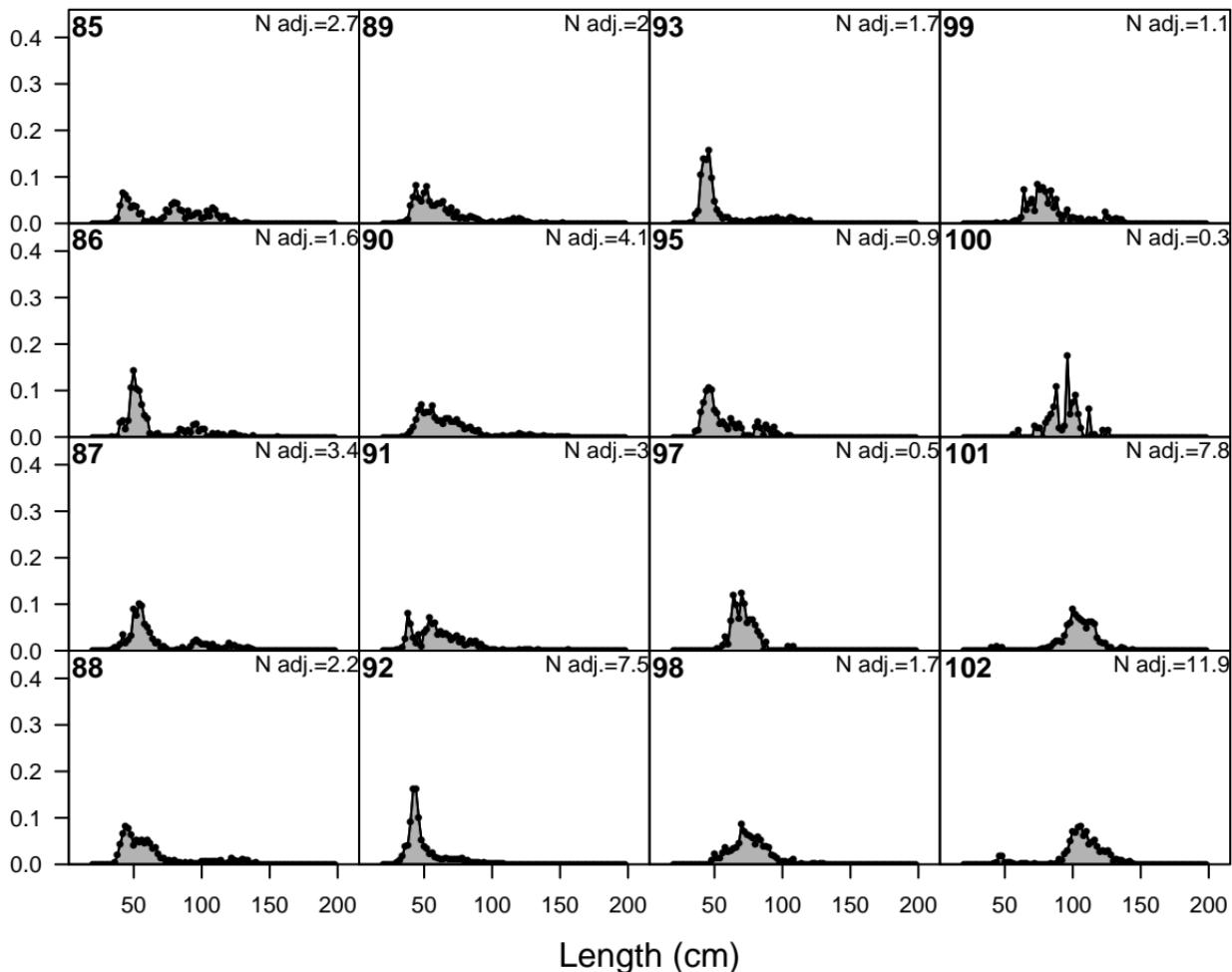
Proportion



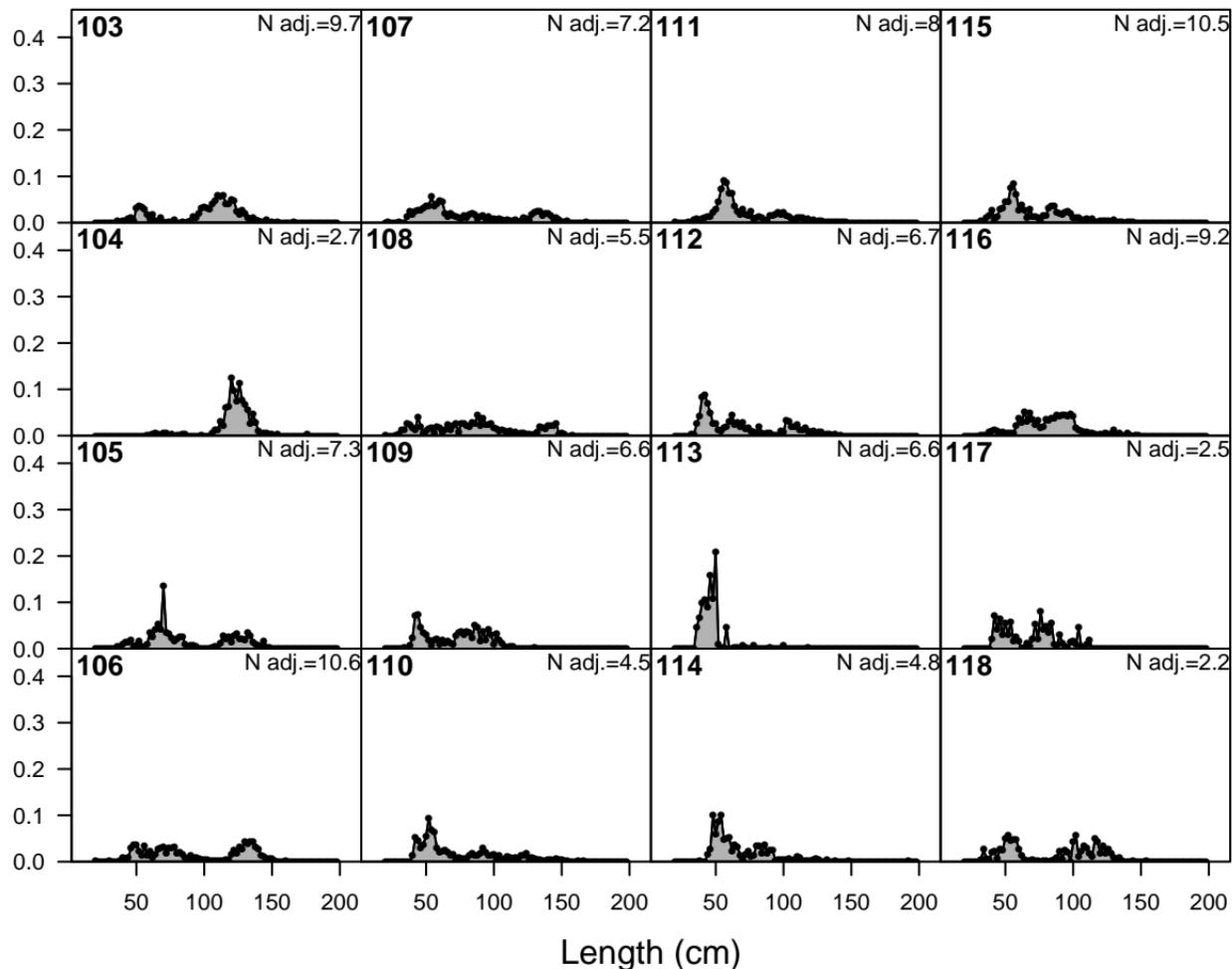
Proportion



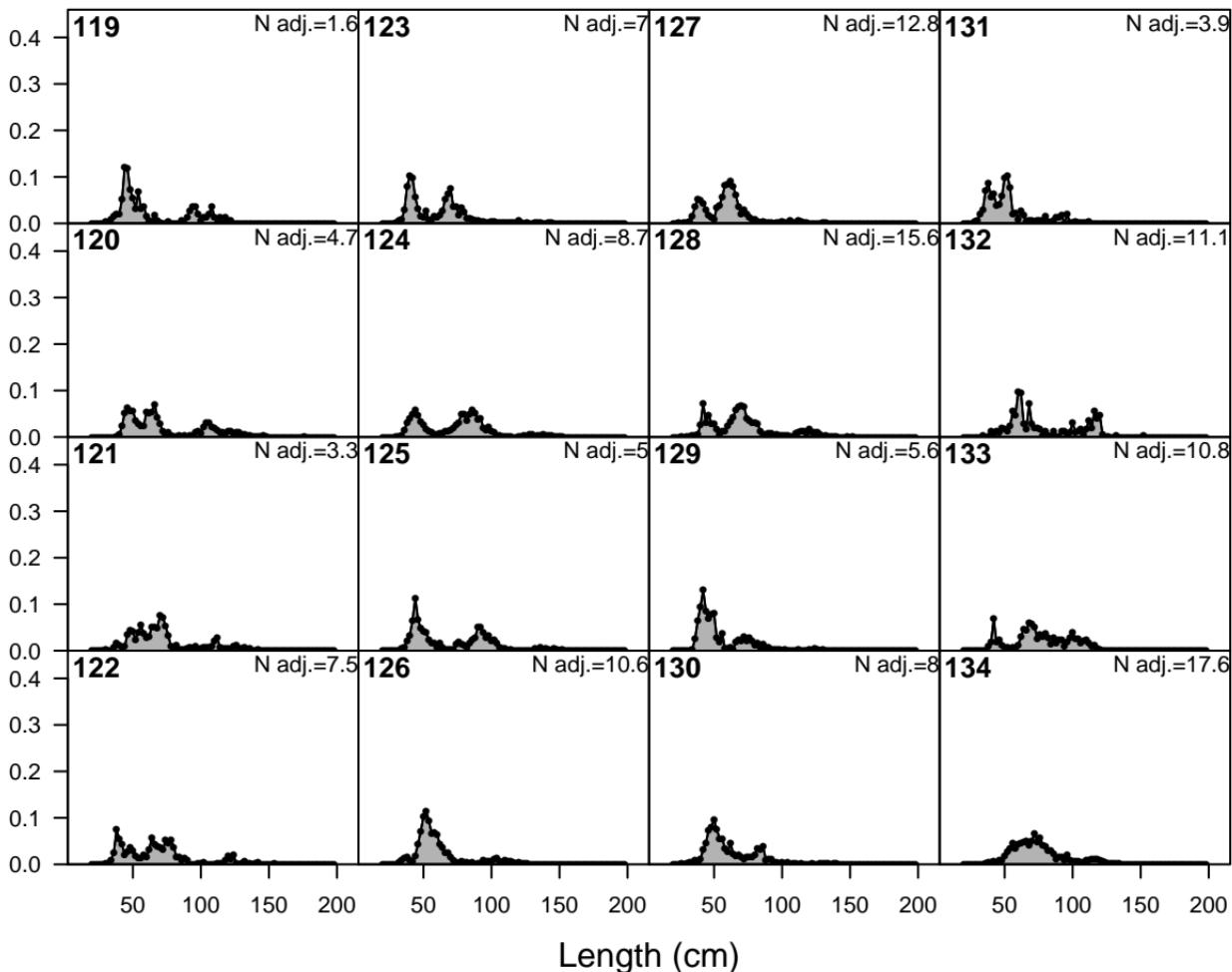
Proportion



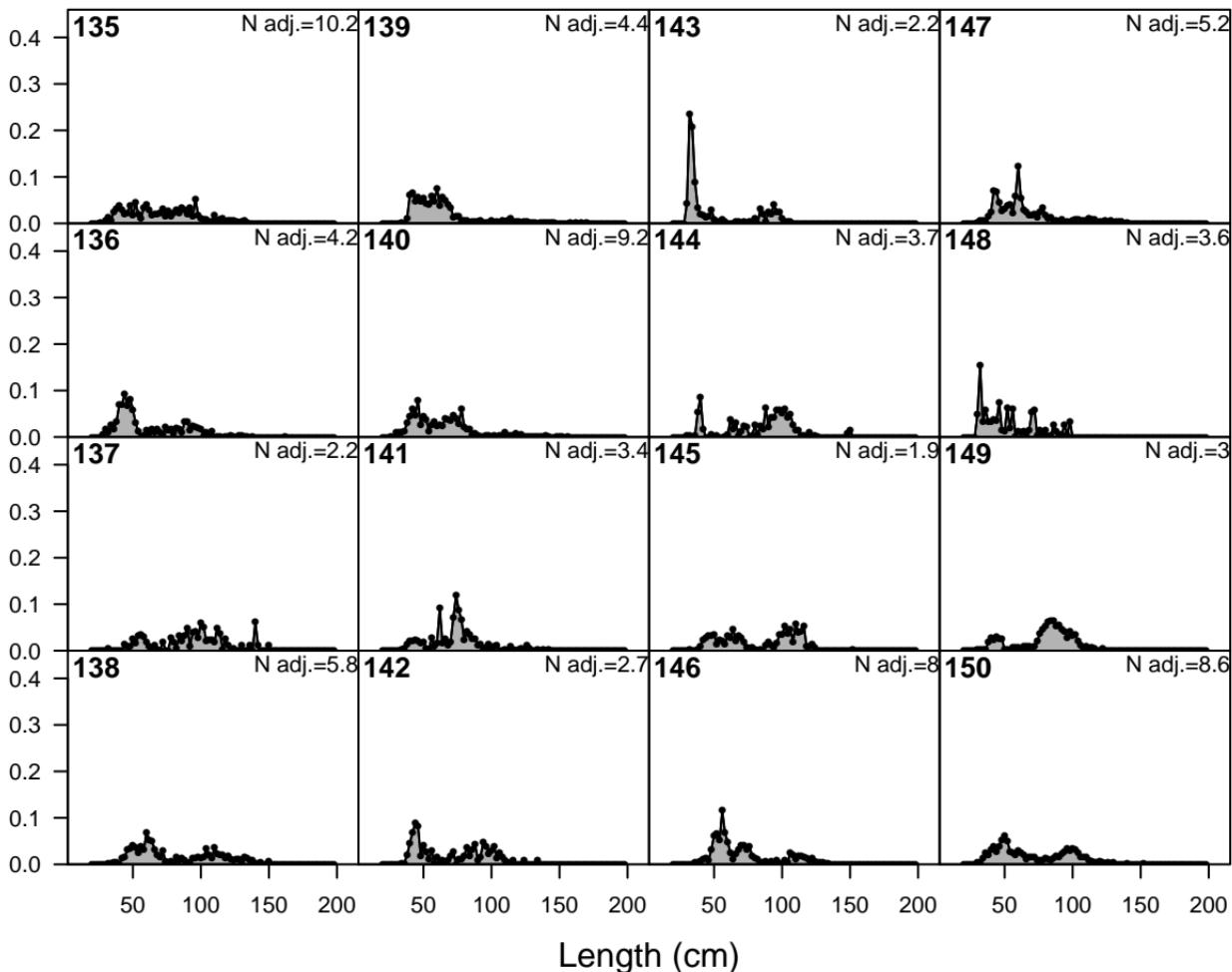
Proportion



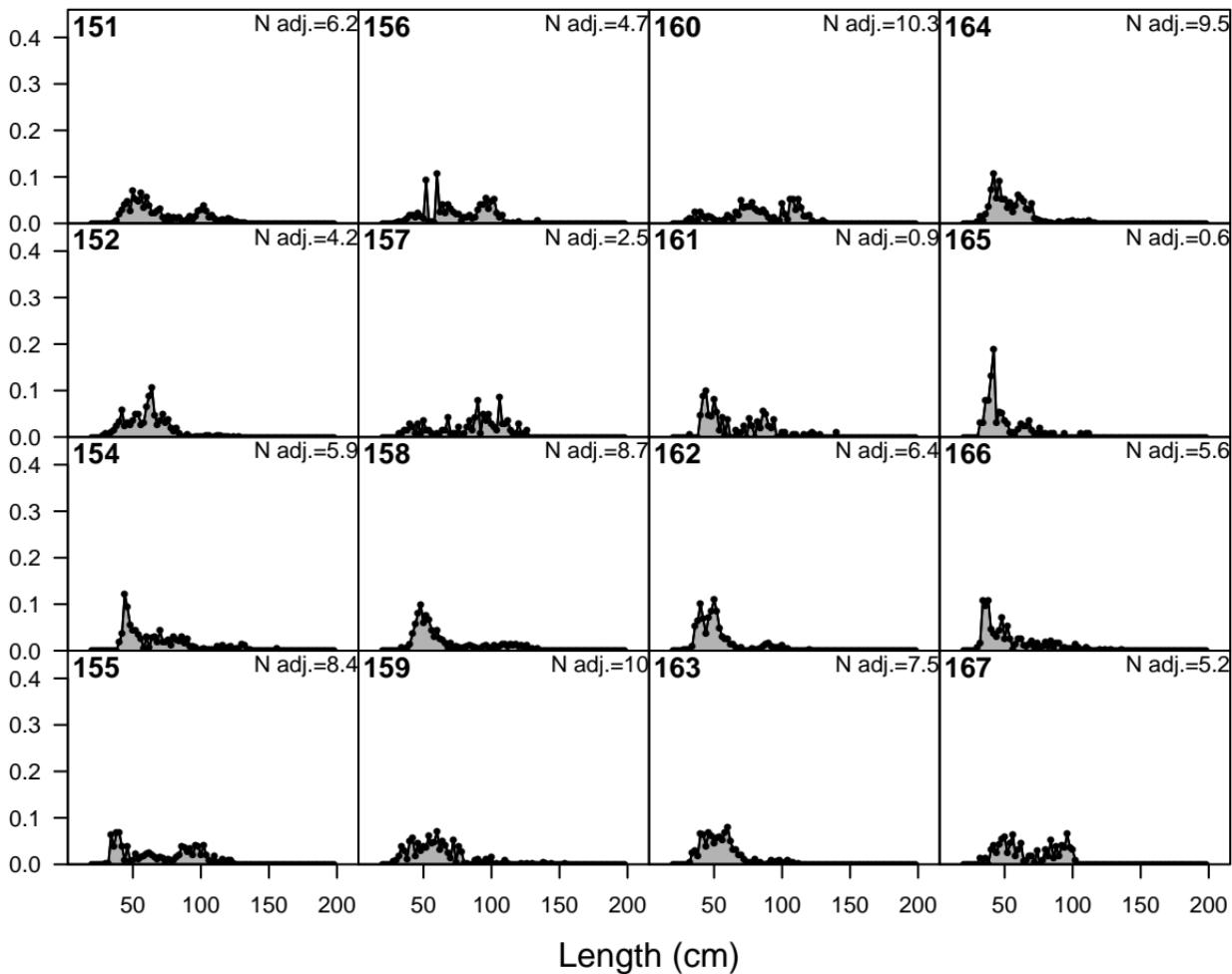
Proportion

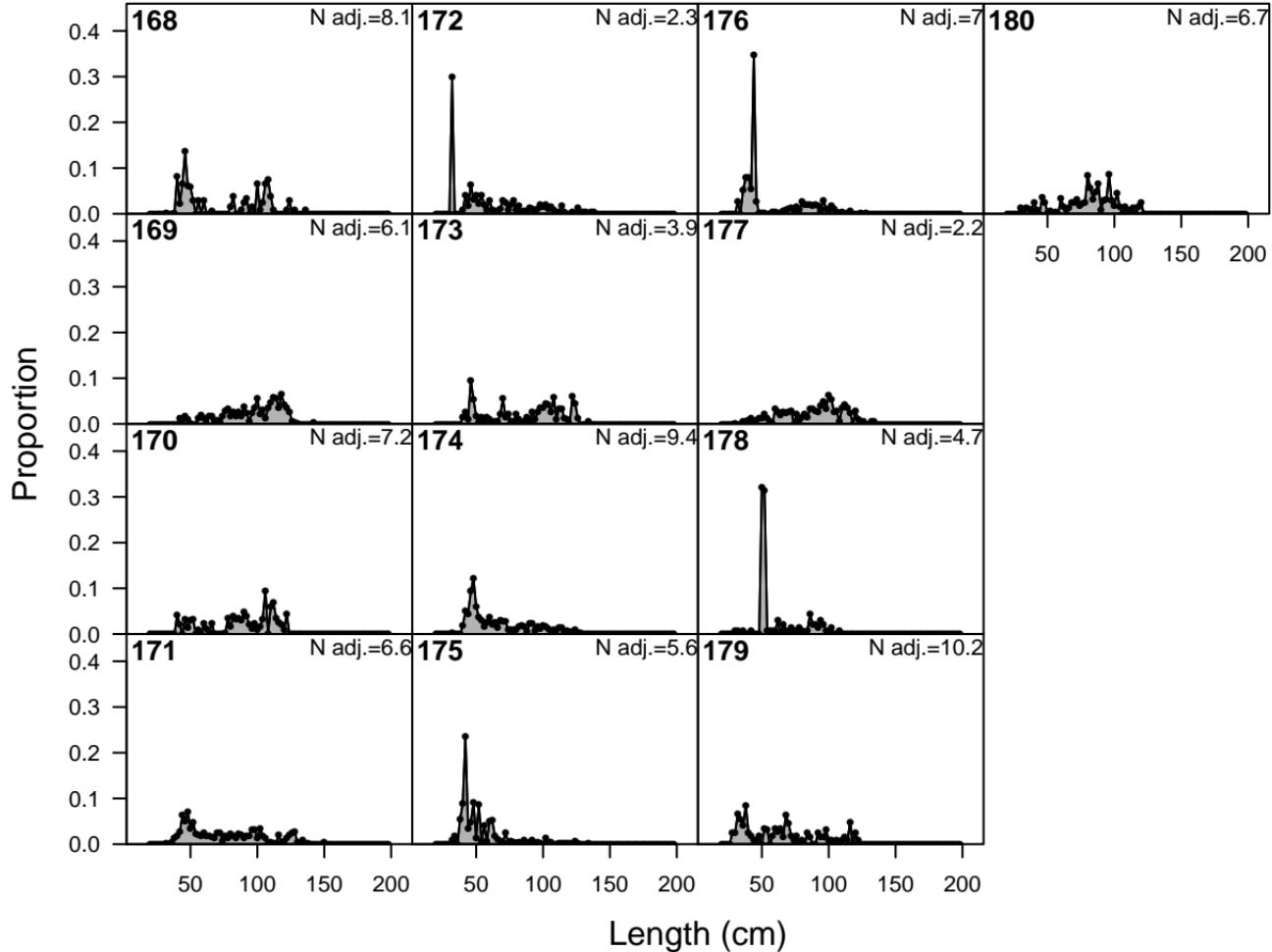


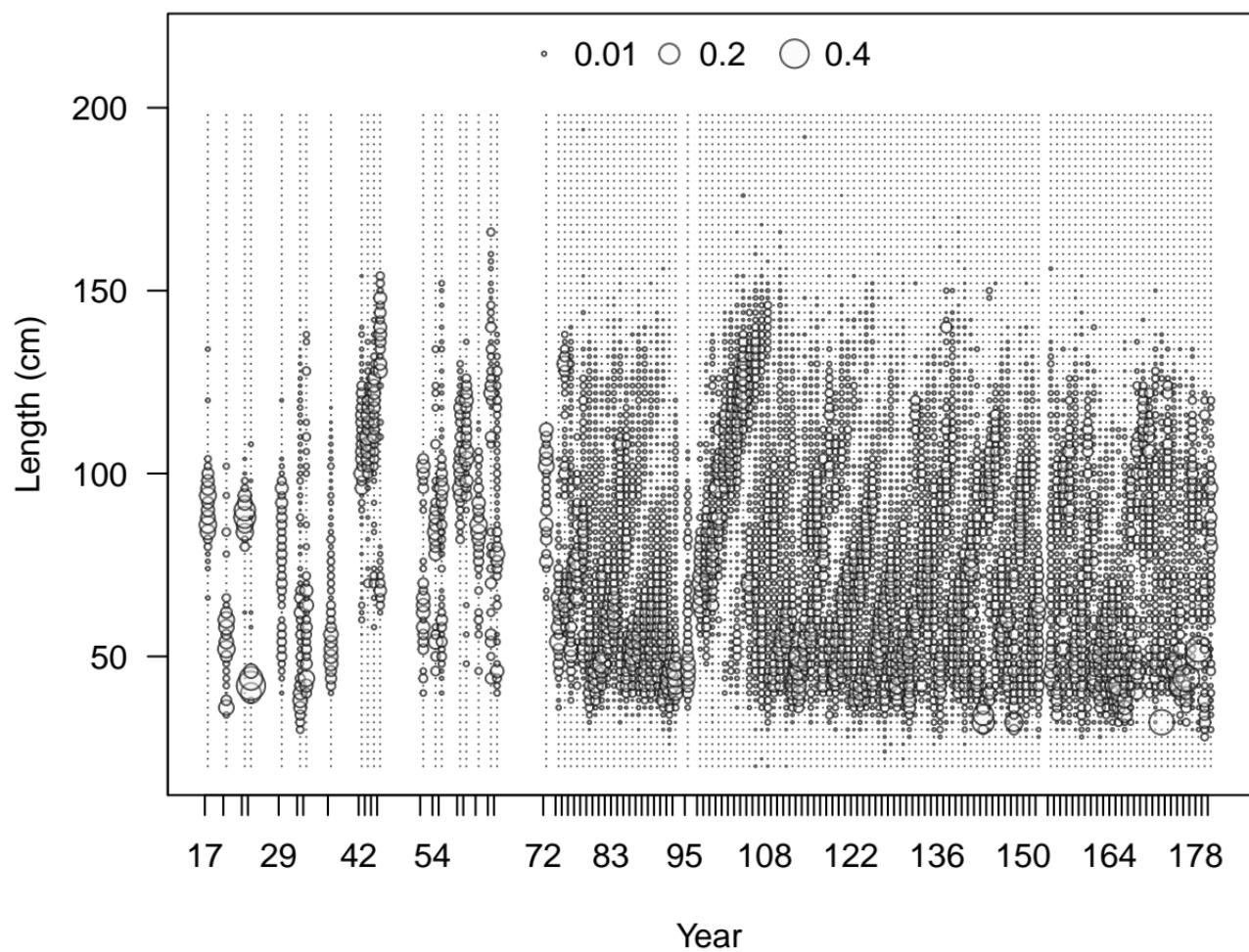
Proportion



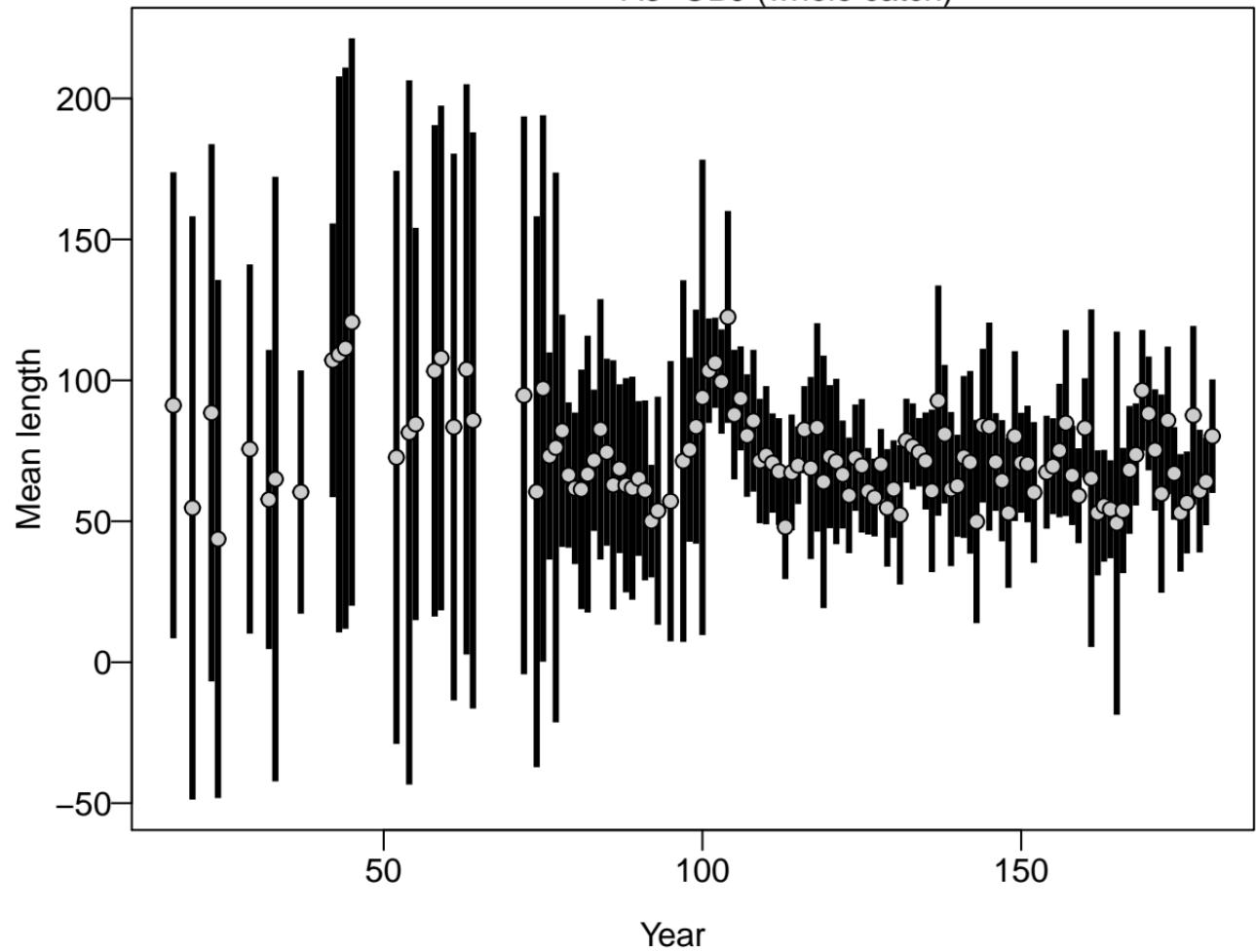
Proportion

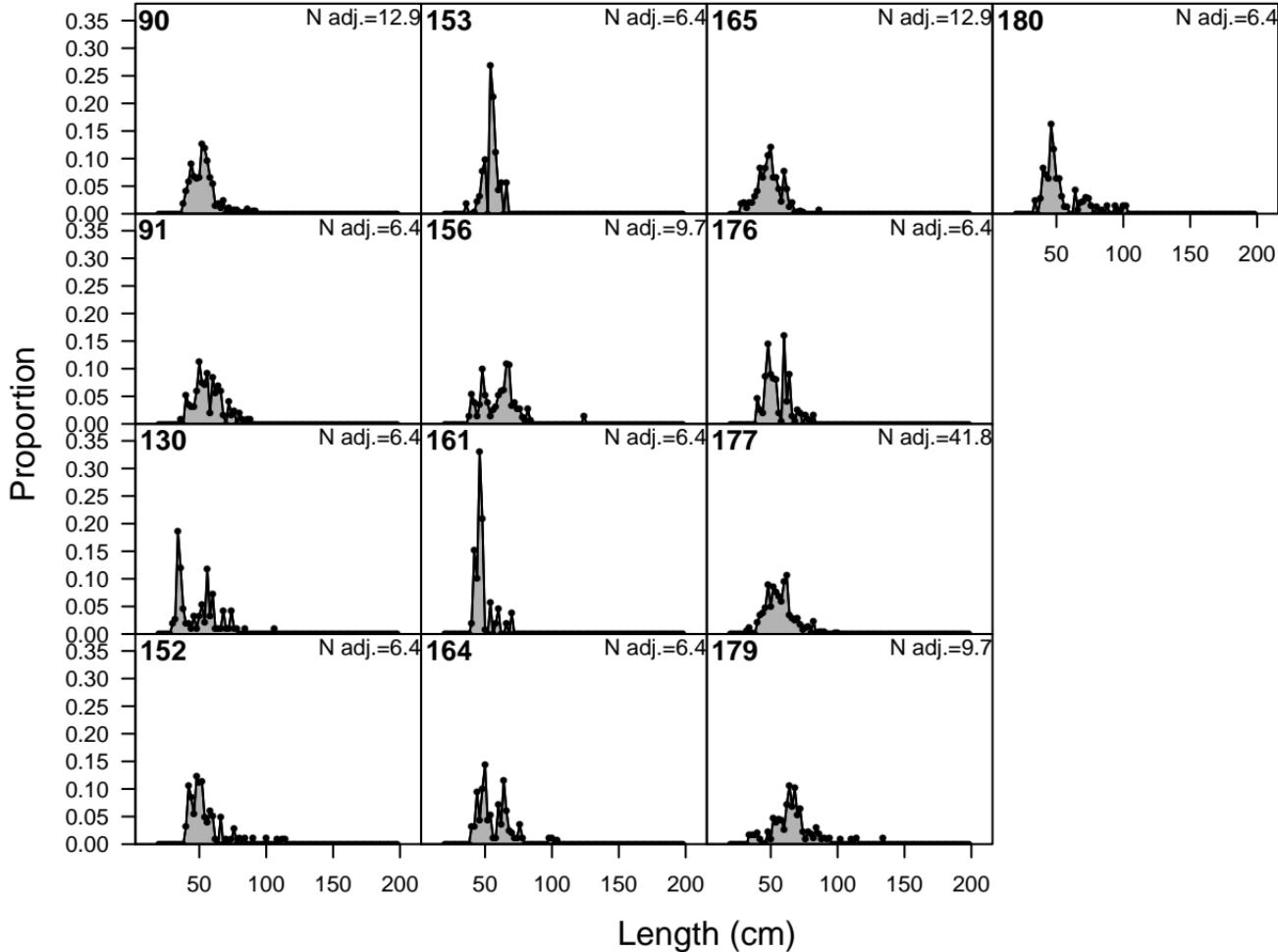


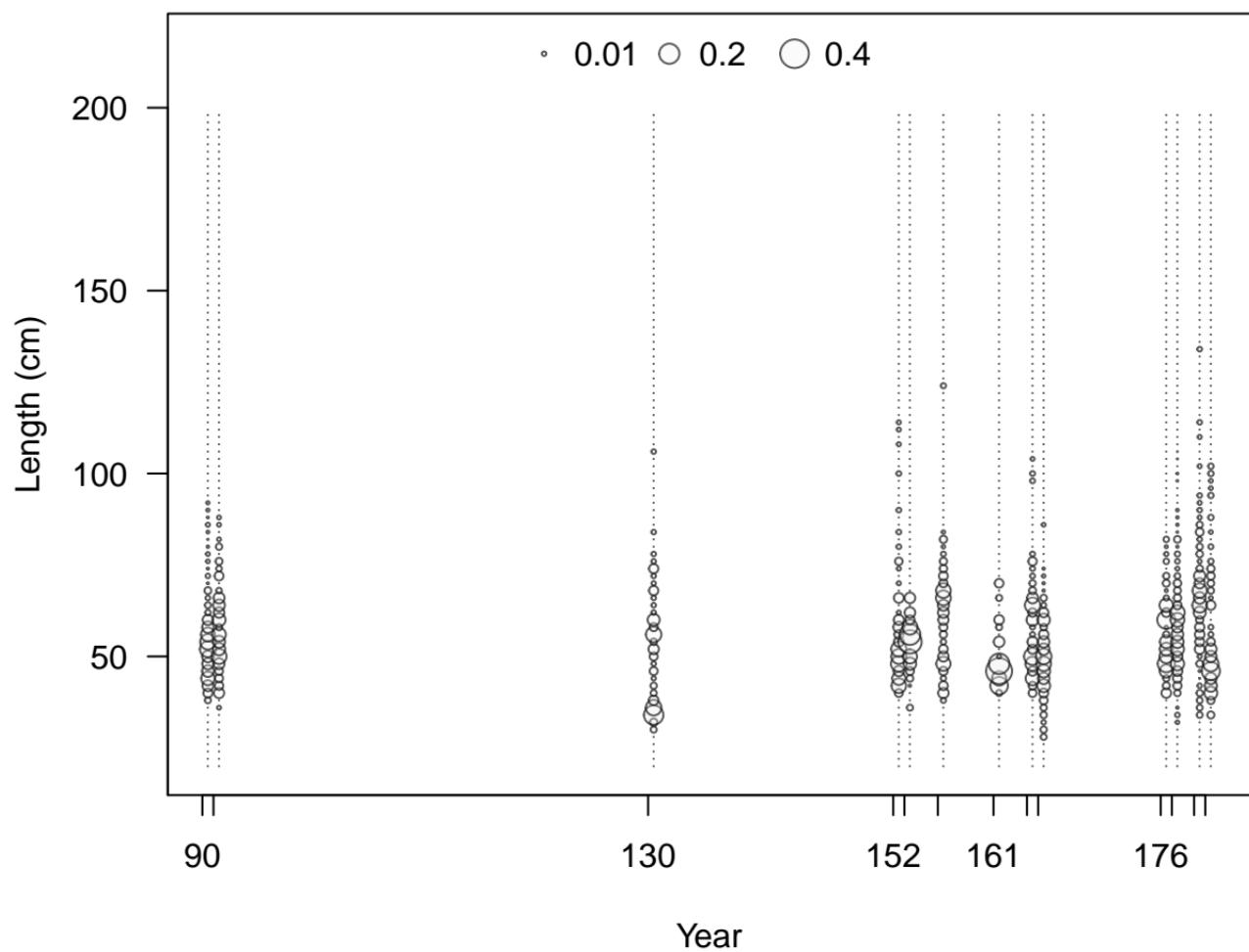




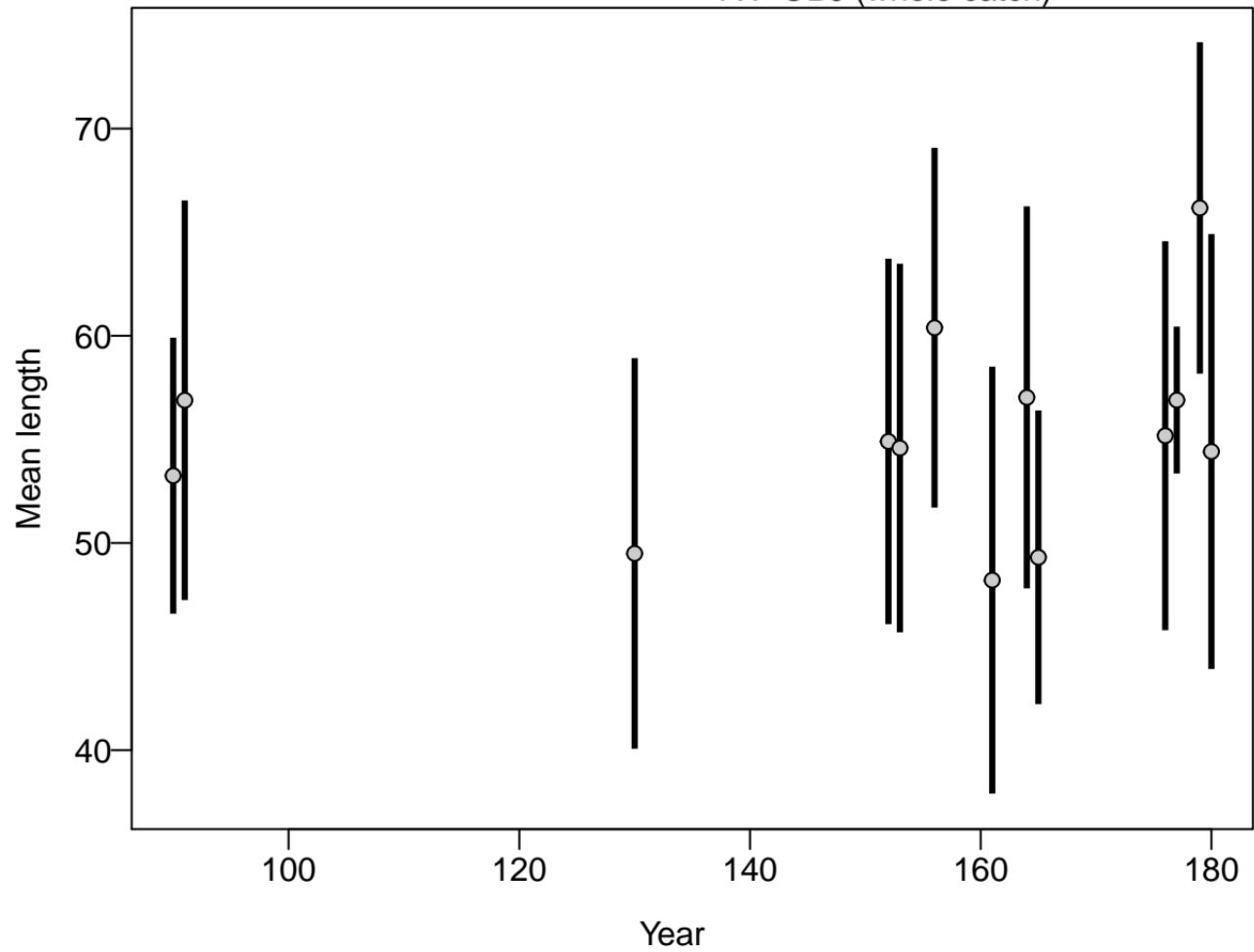
### A3-OBJ (whole catch)

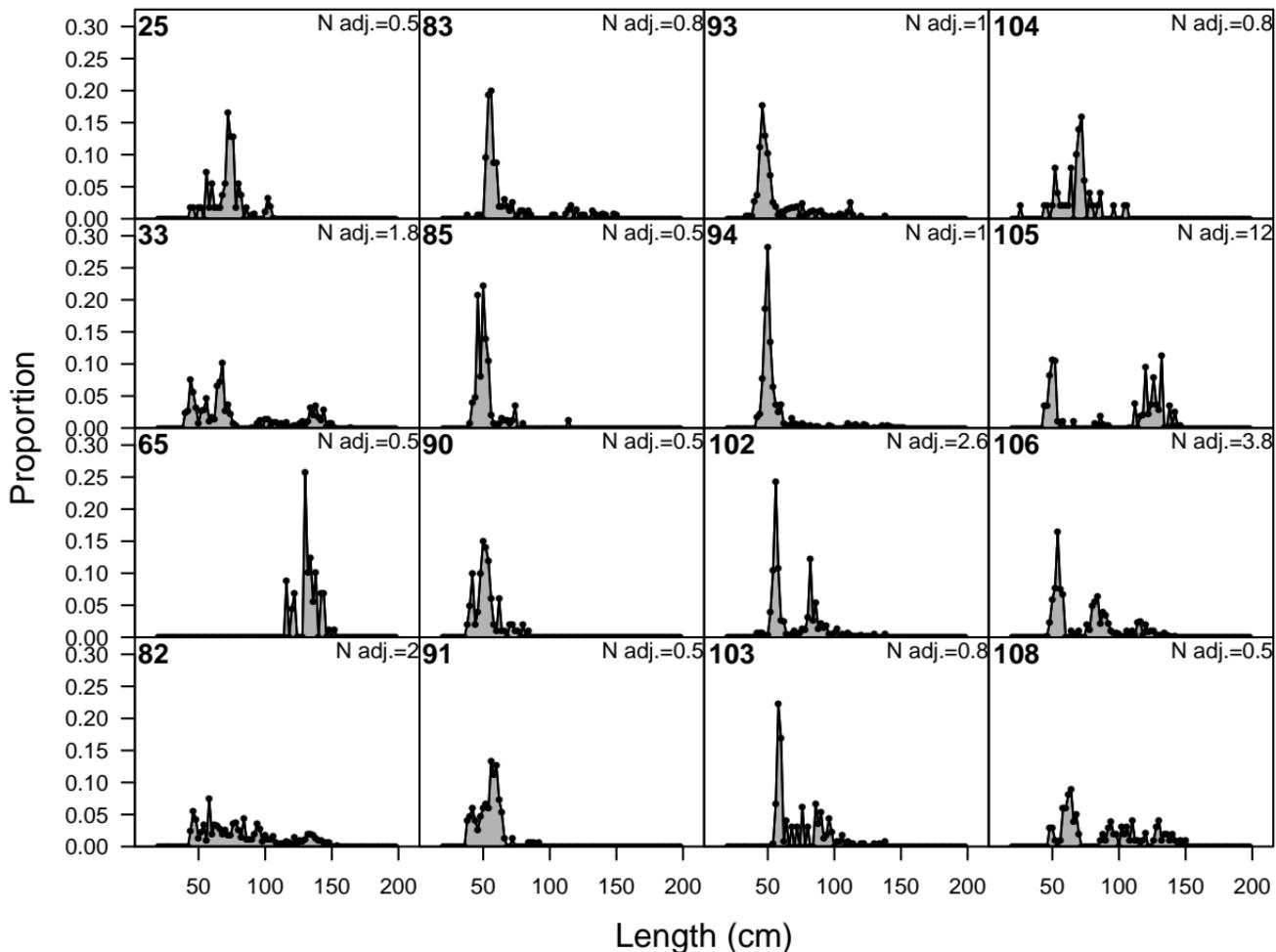


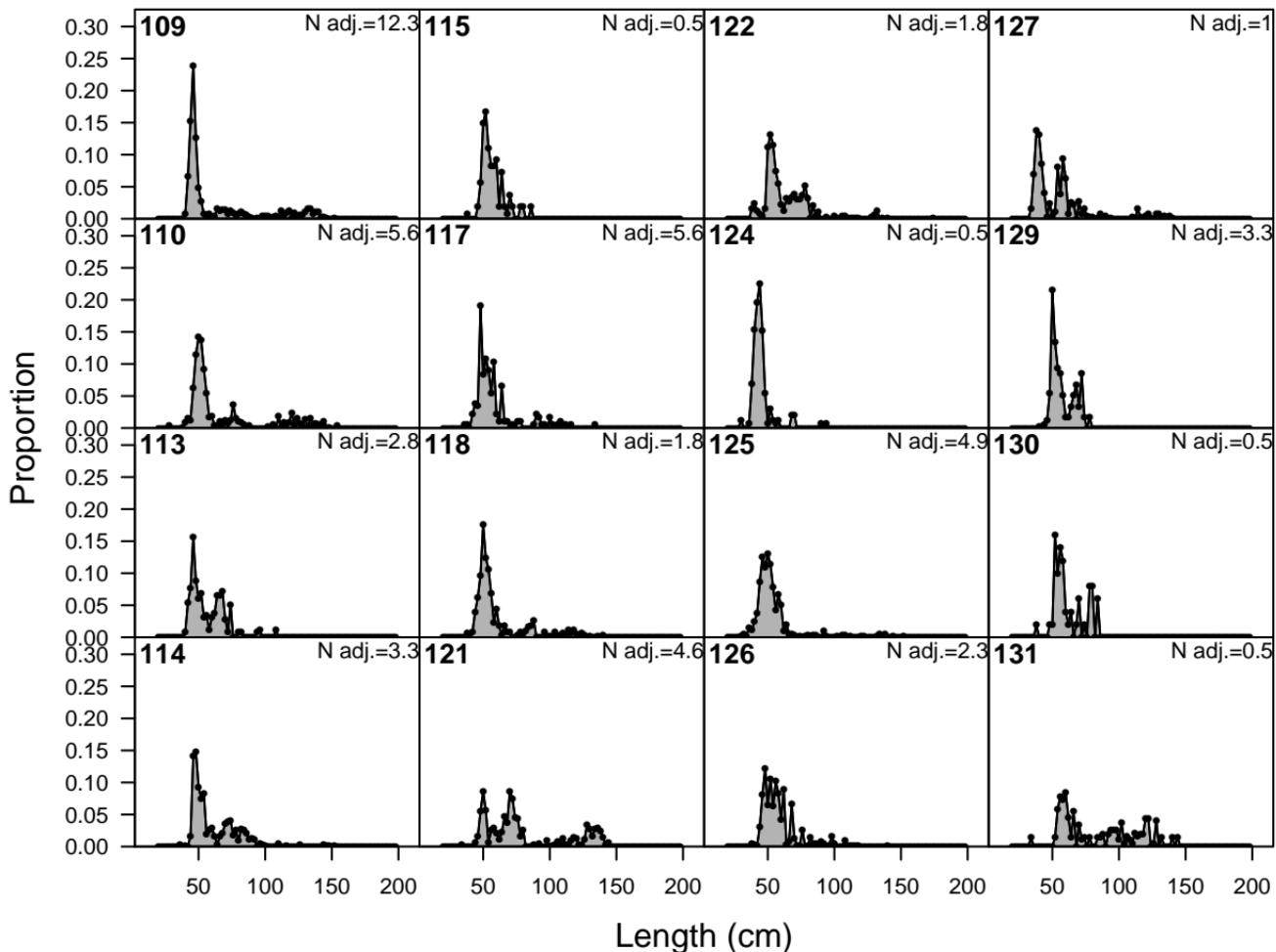


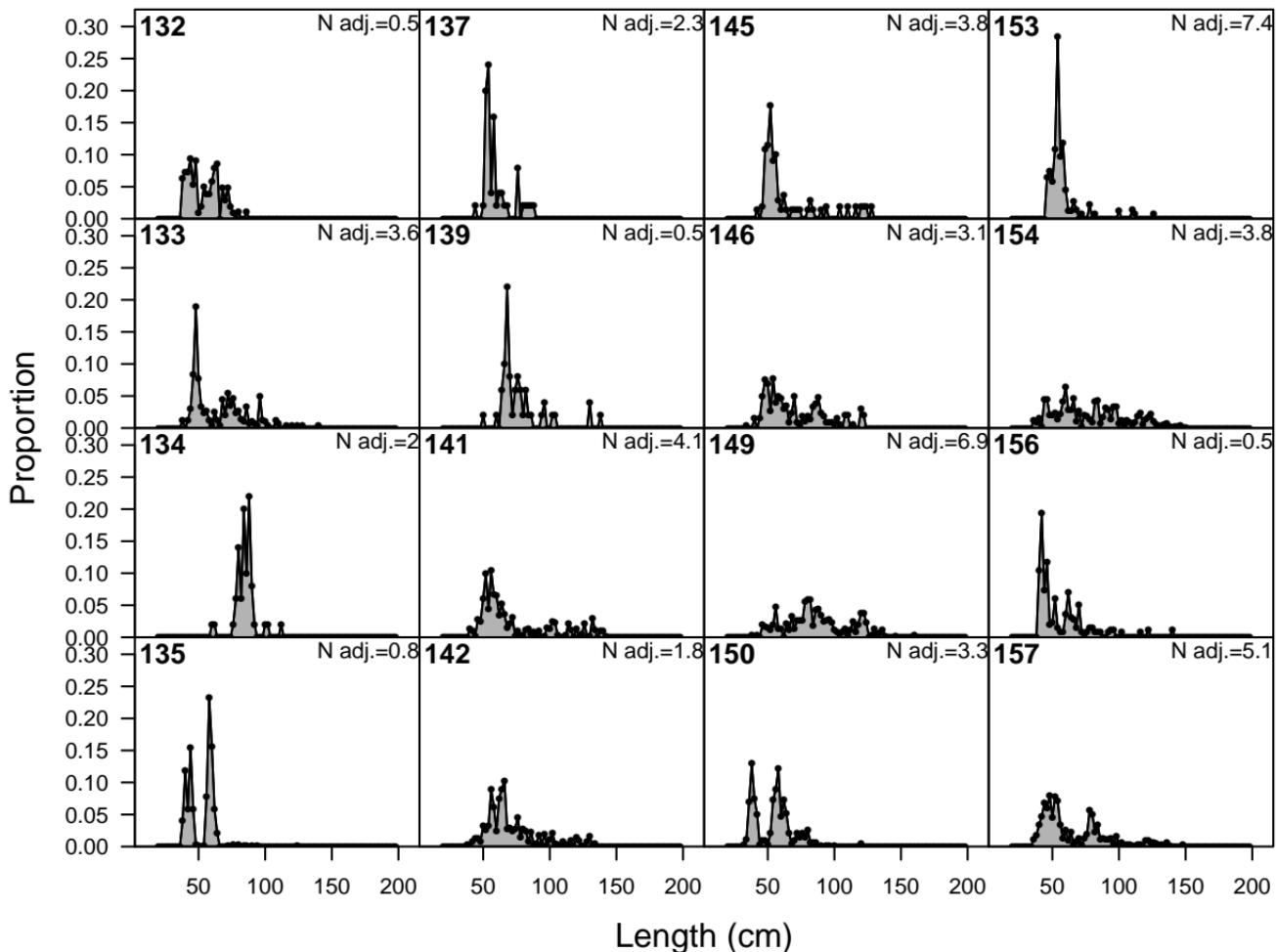


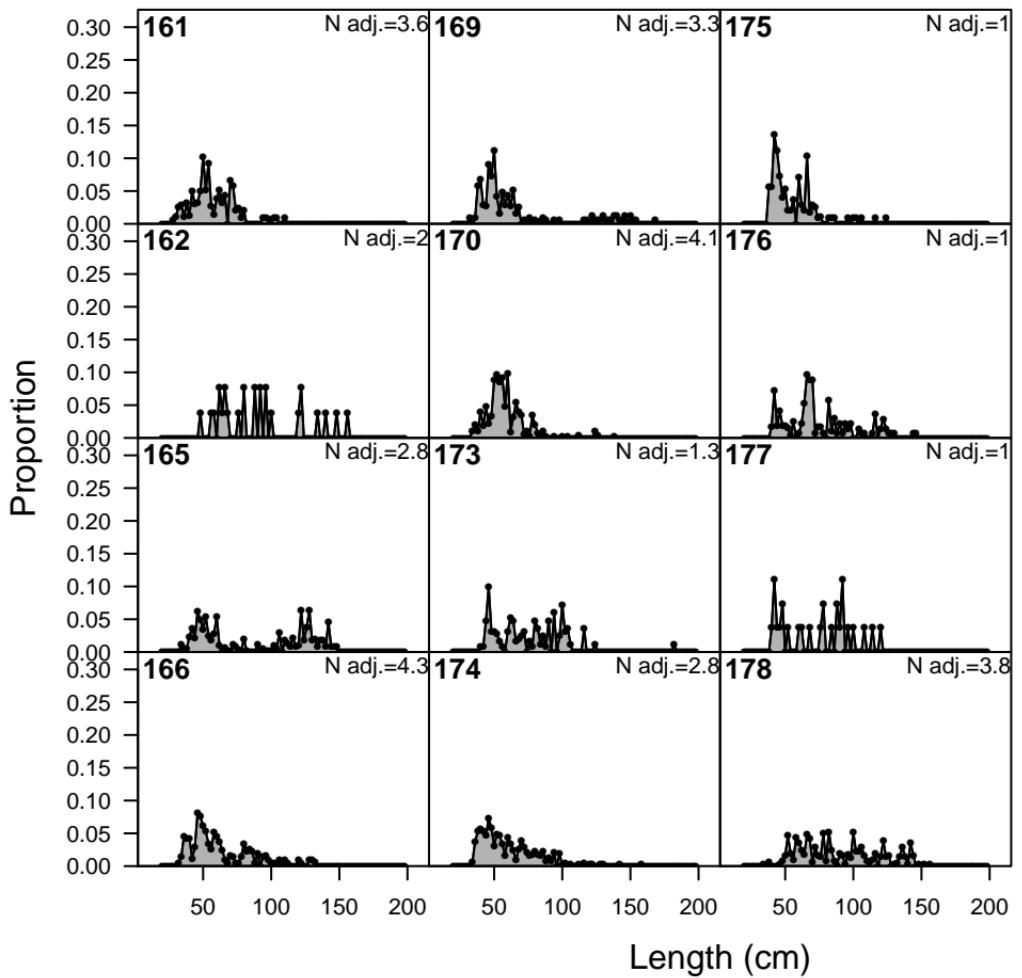
### A4-OBJ (whole catch)

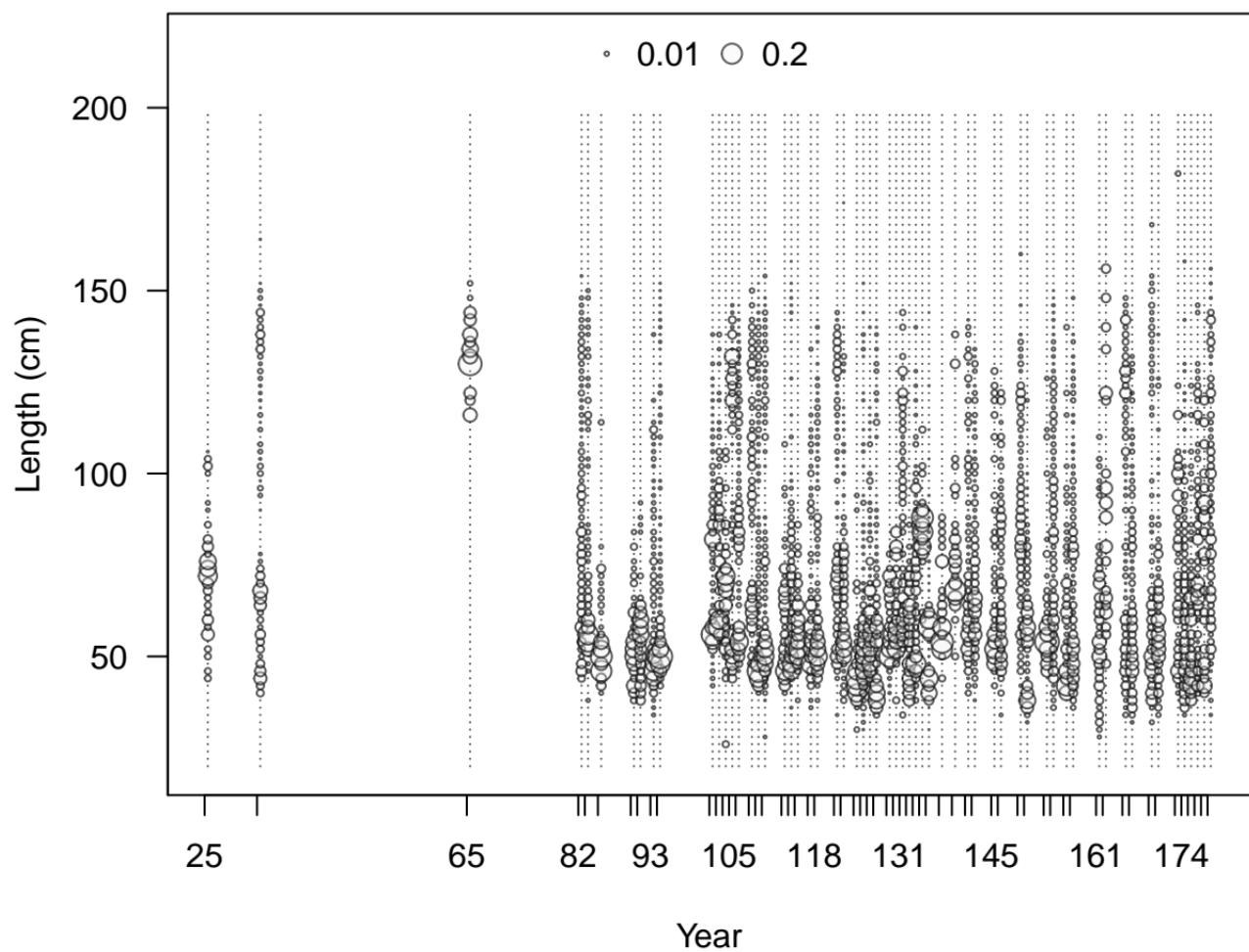




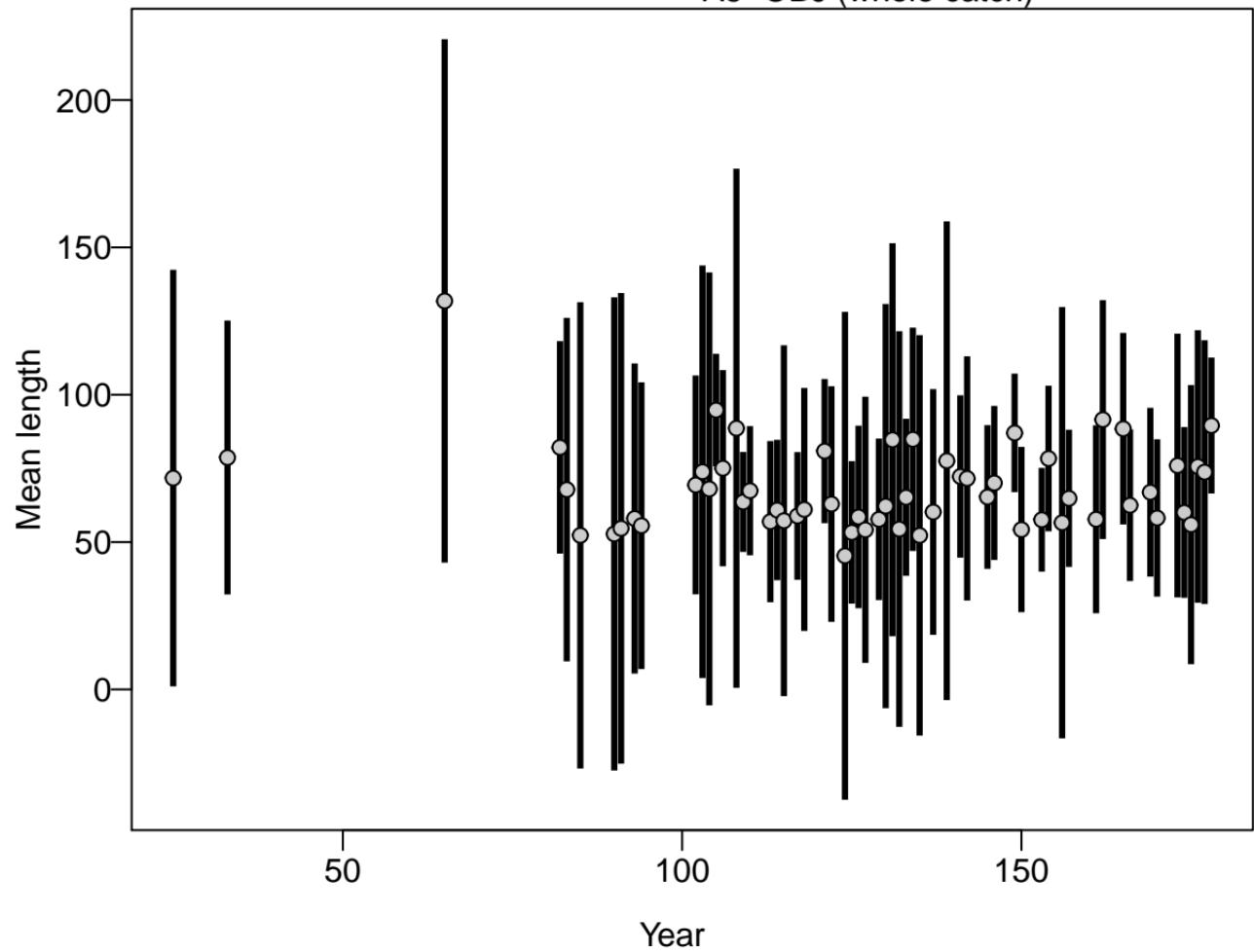


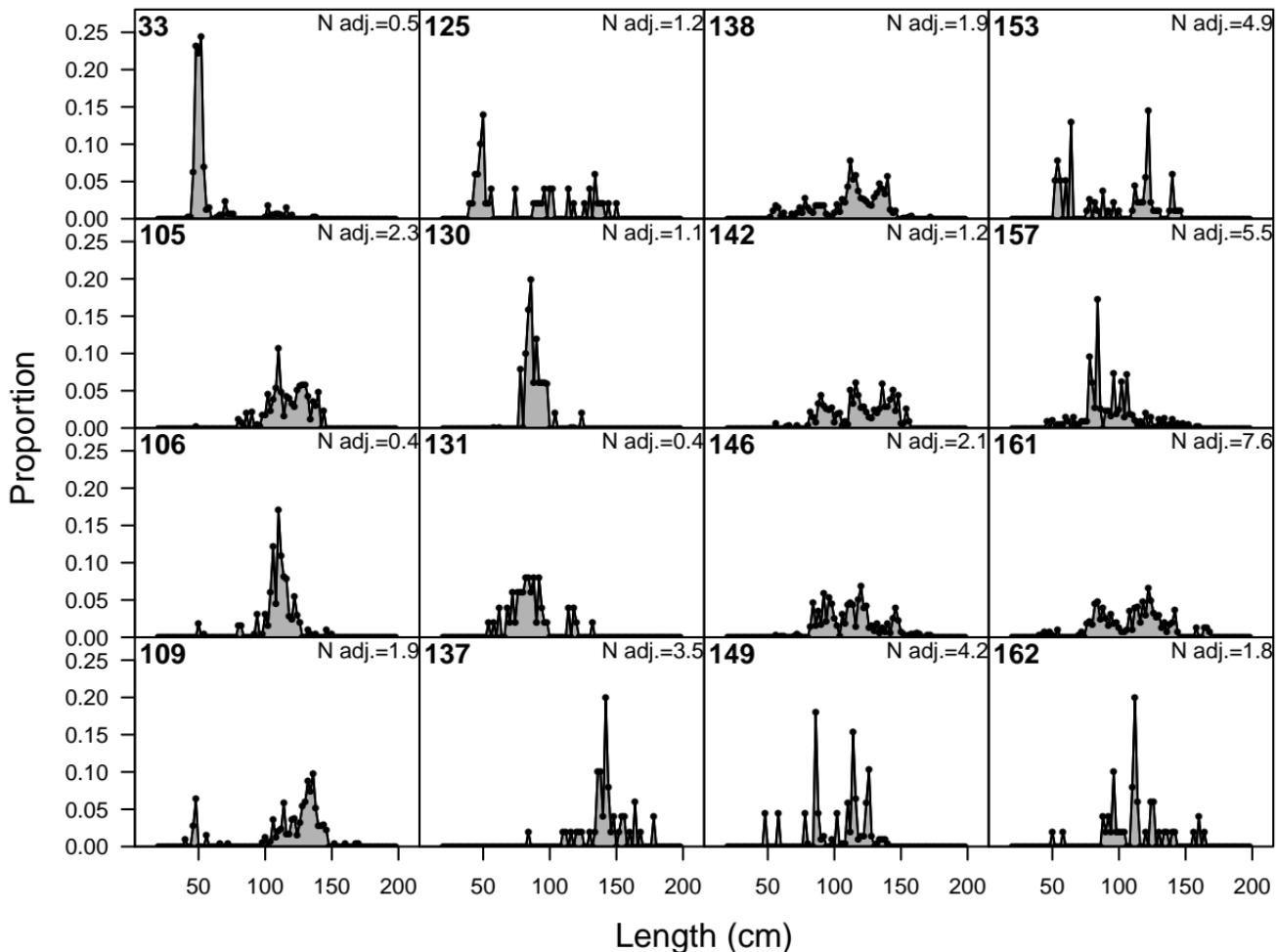


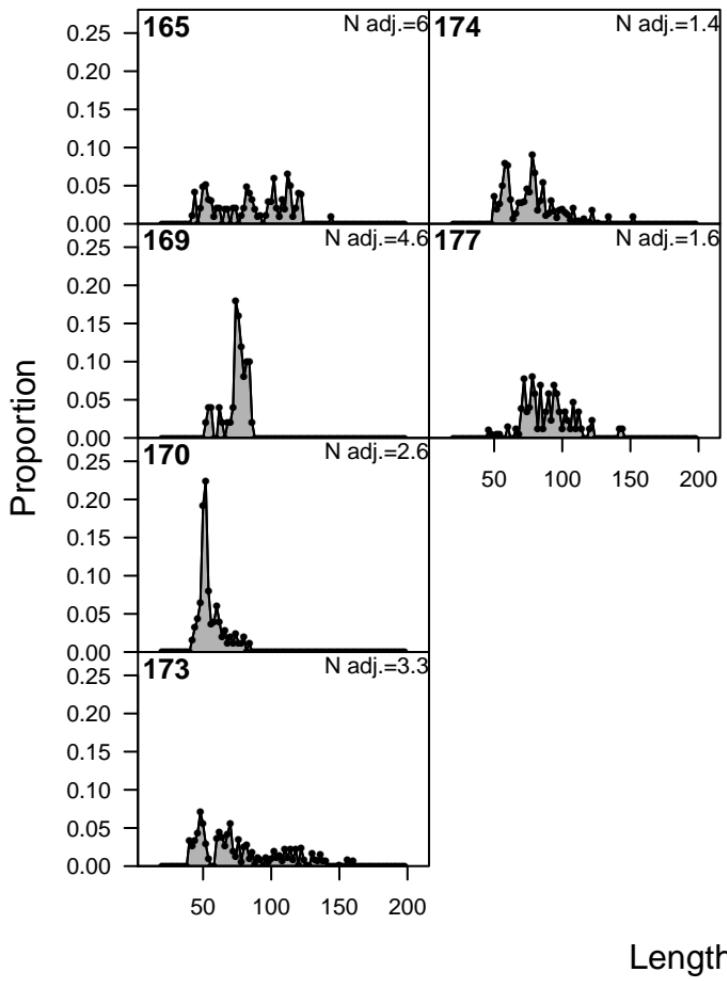


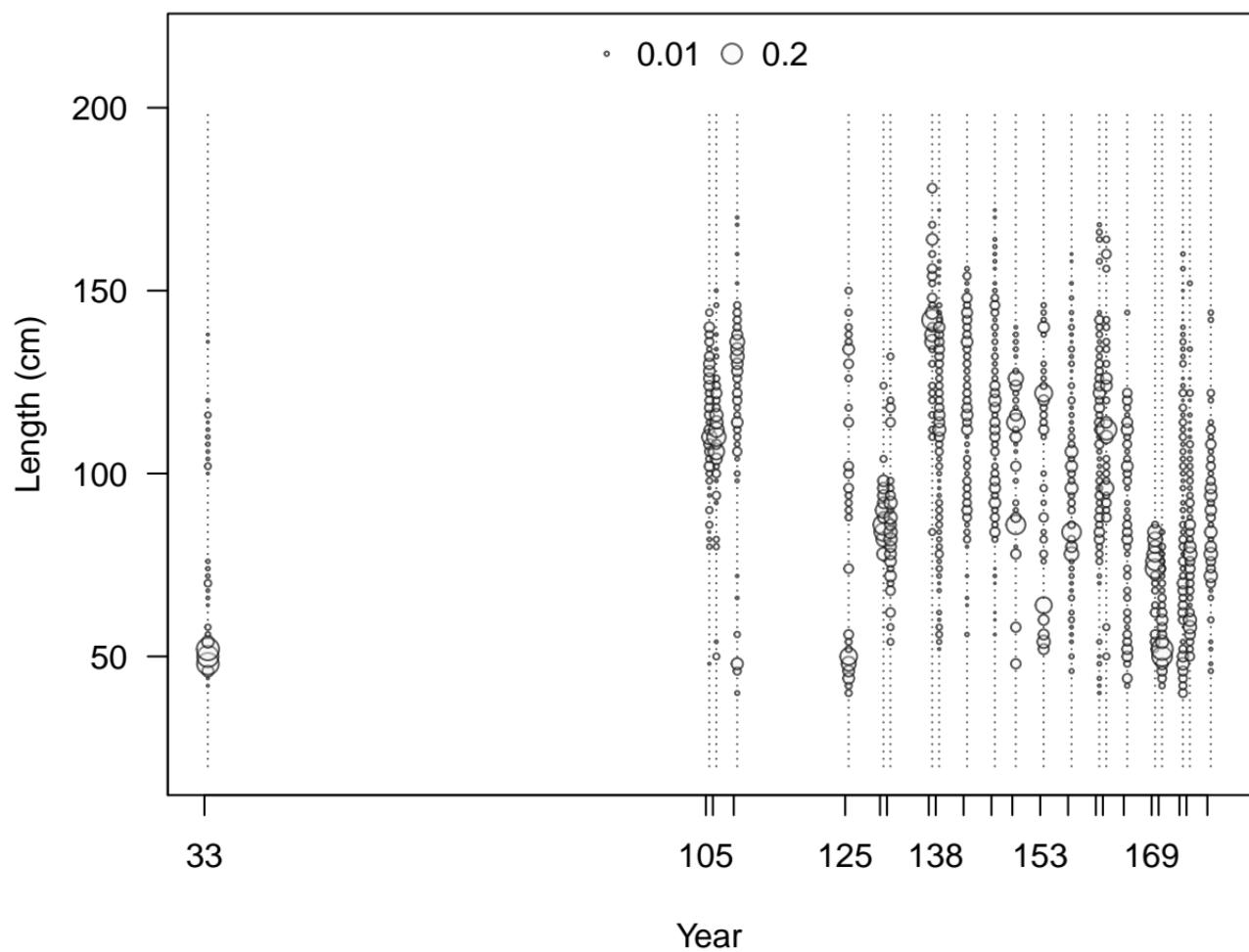


# A5-OBJ (whole catch)

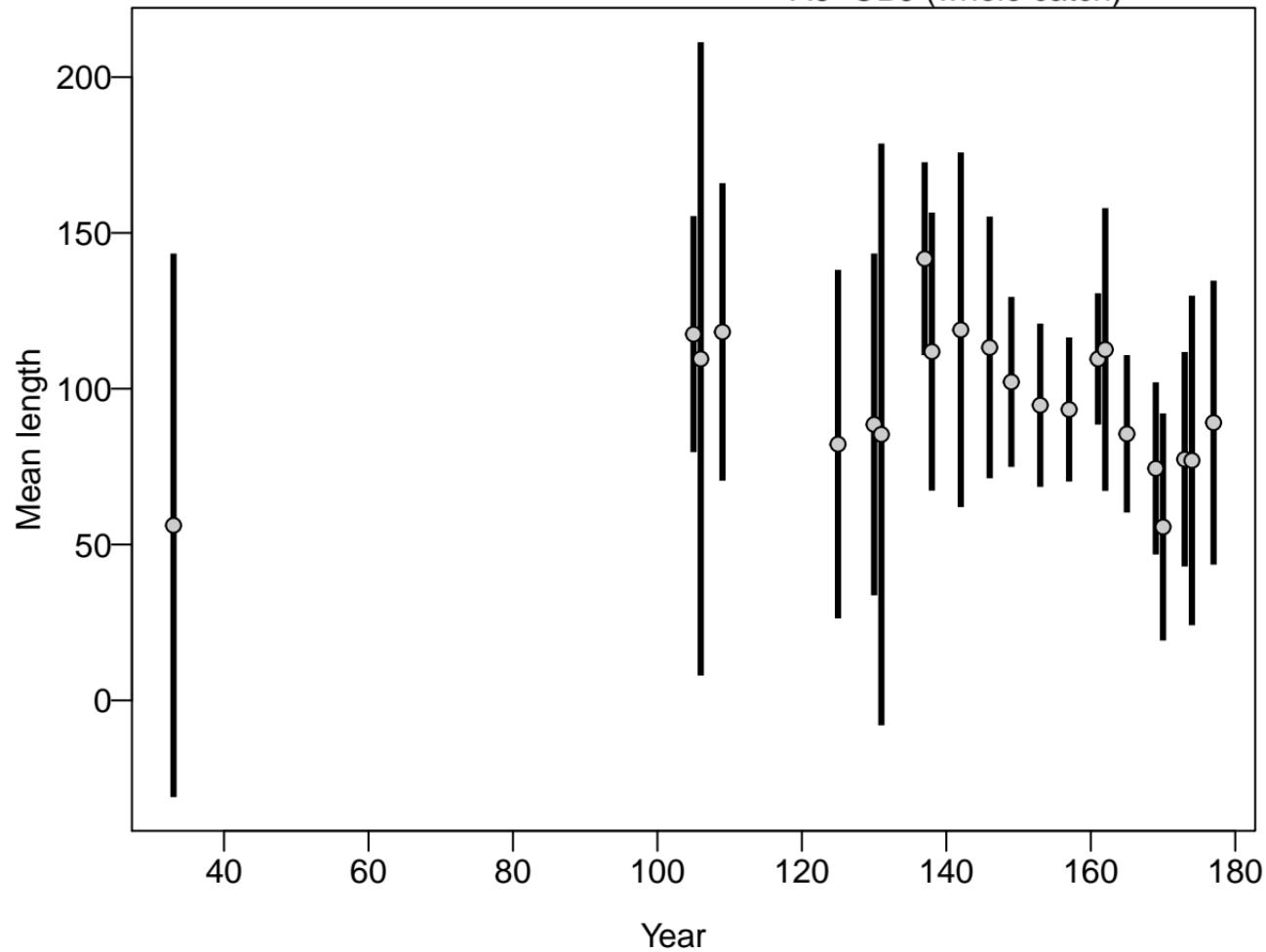




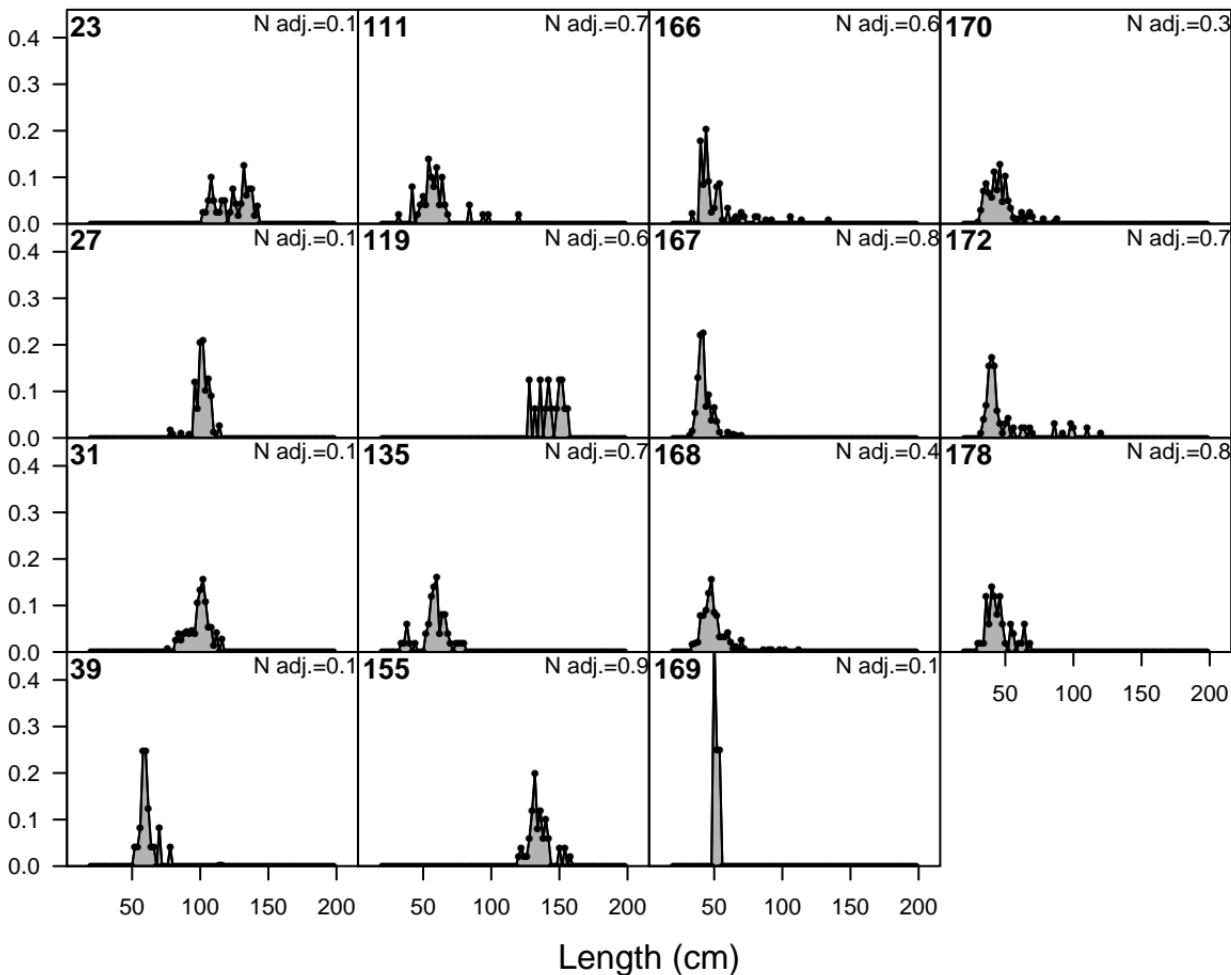


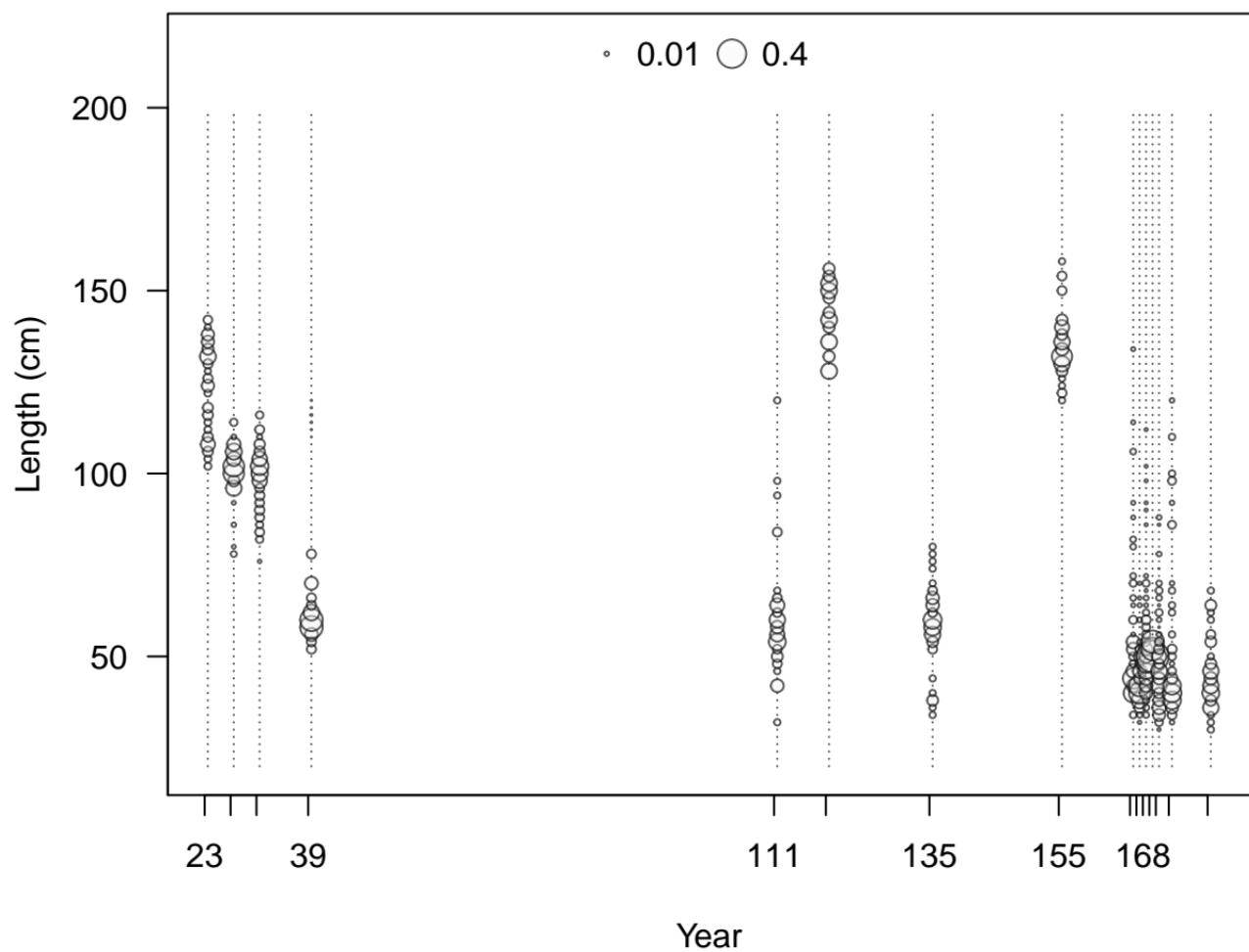


### A6-OBJ (whole catch)

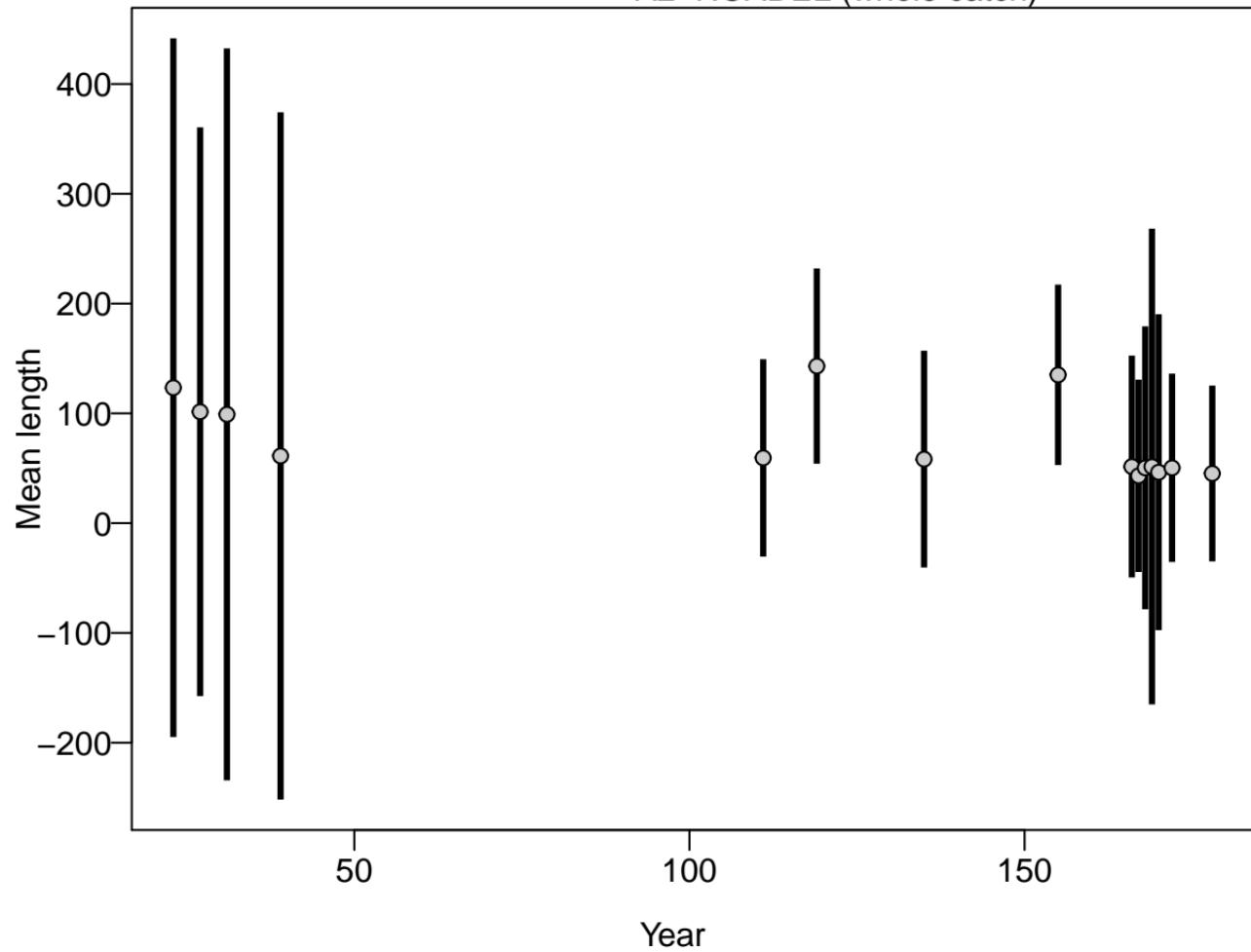


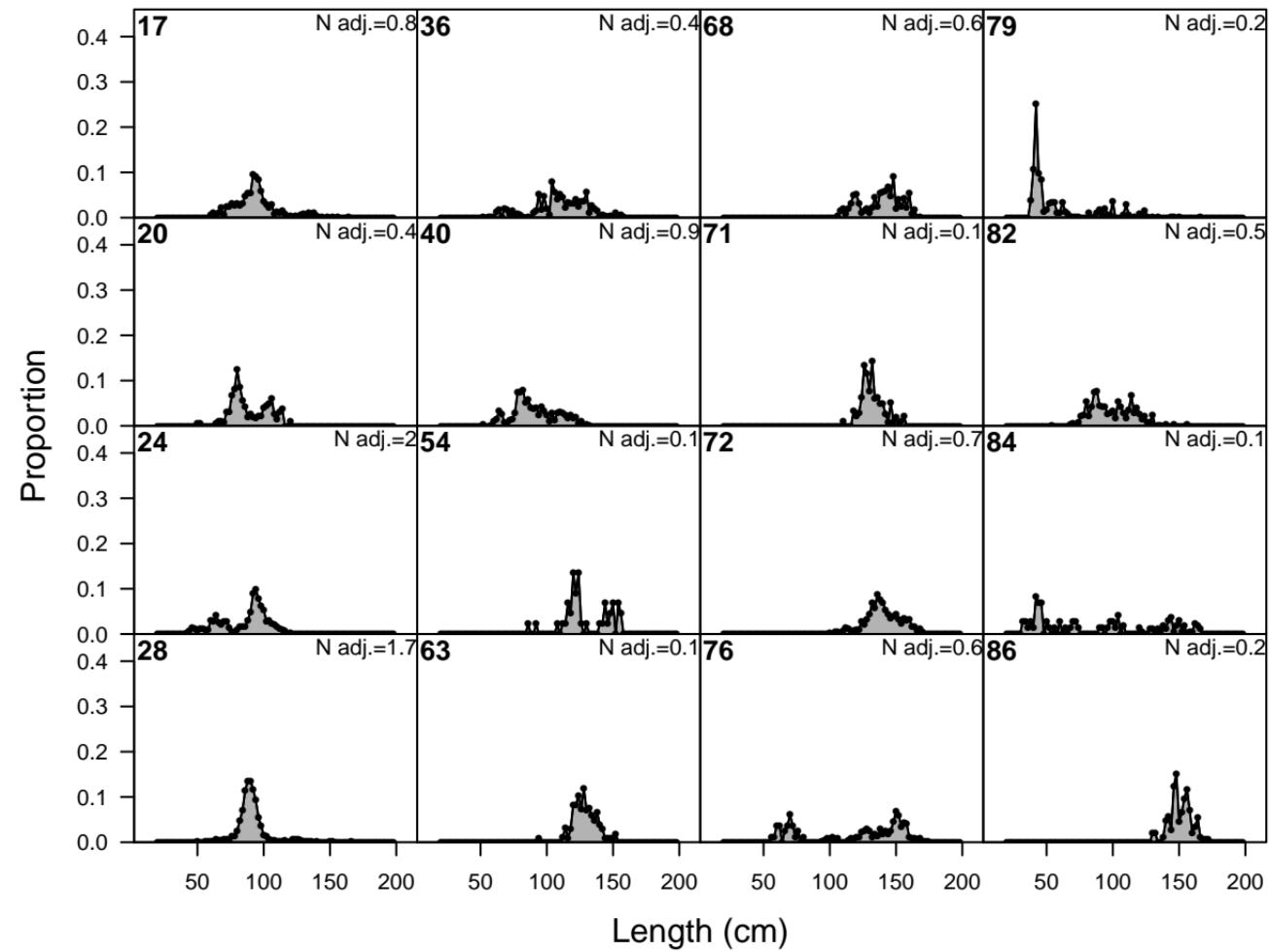
Proportion



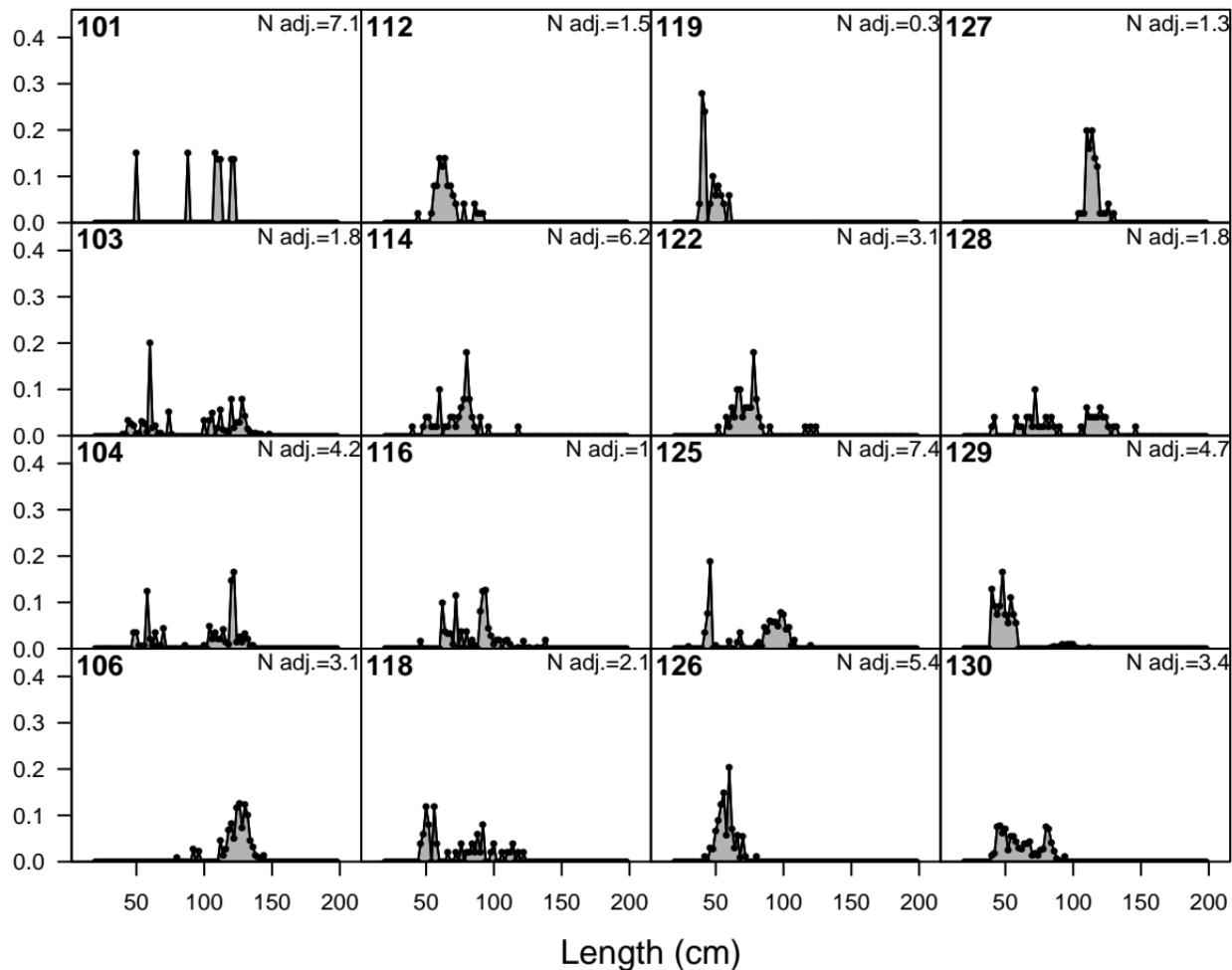


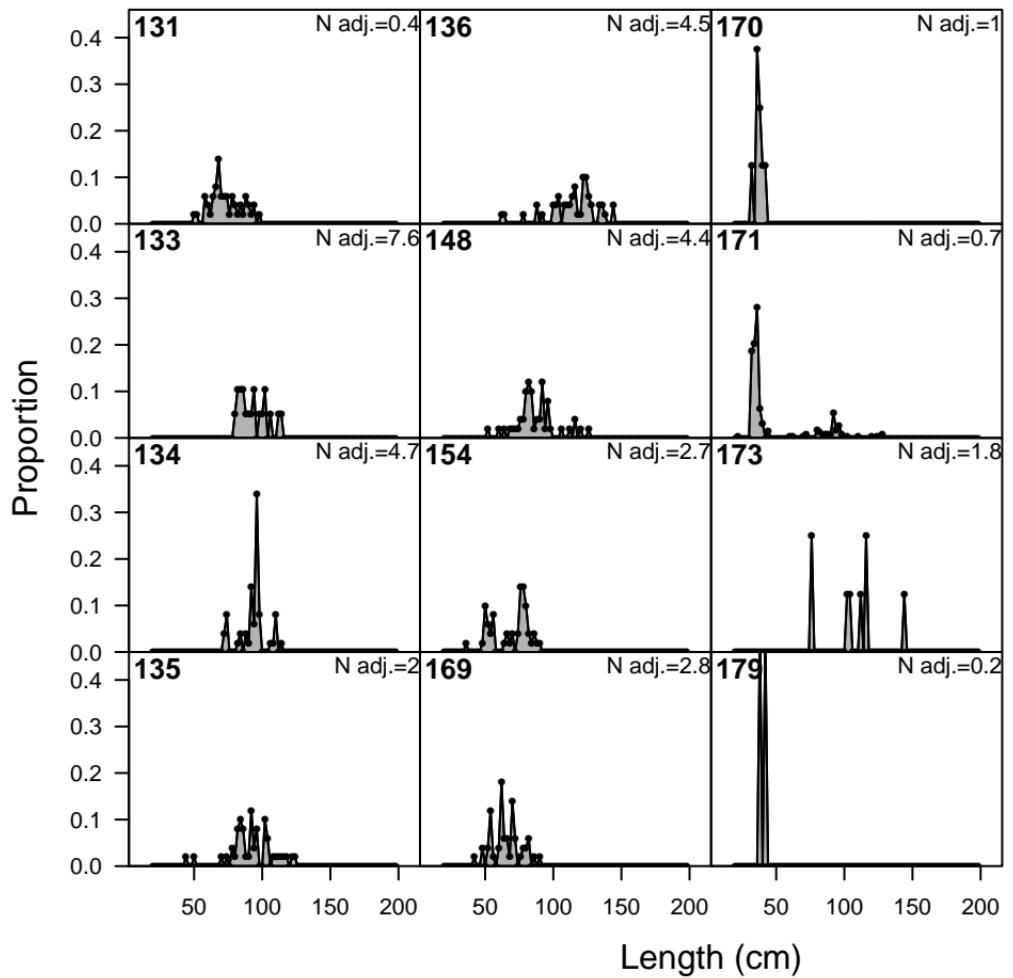
# A2–NOADEL (whole catch)

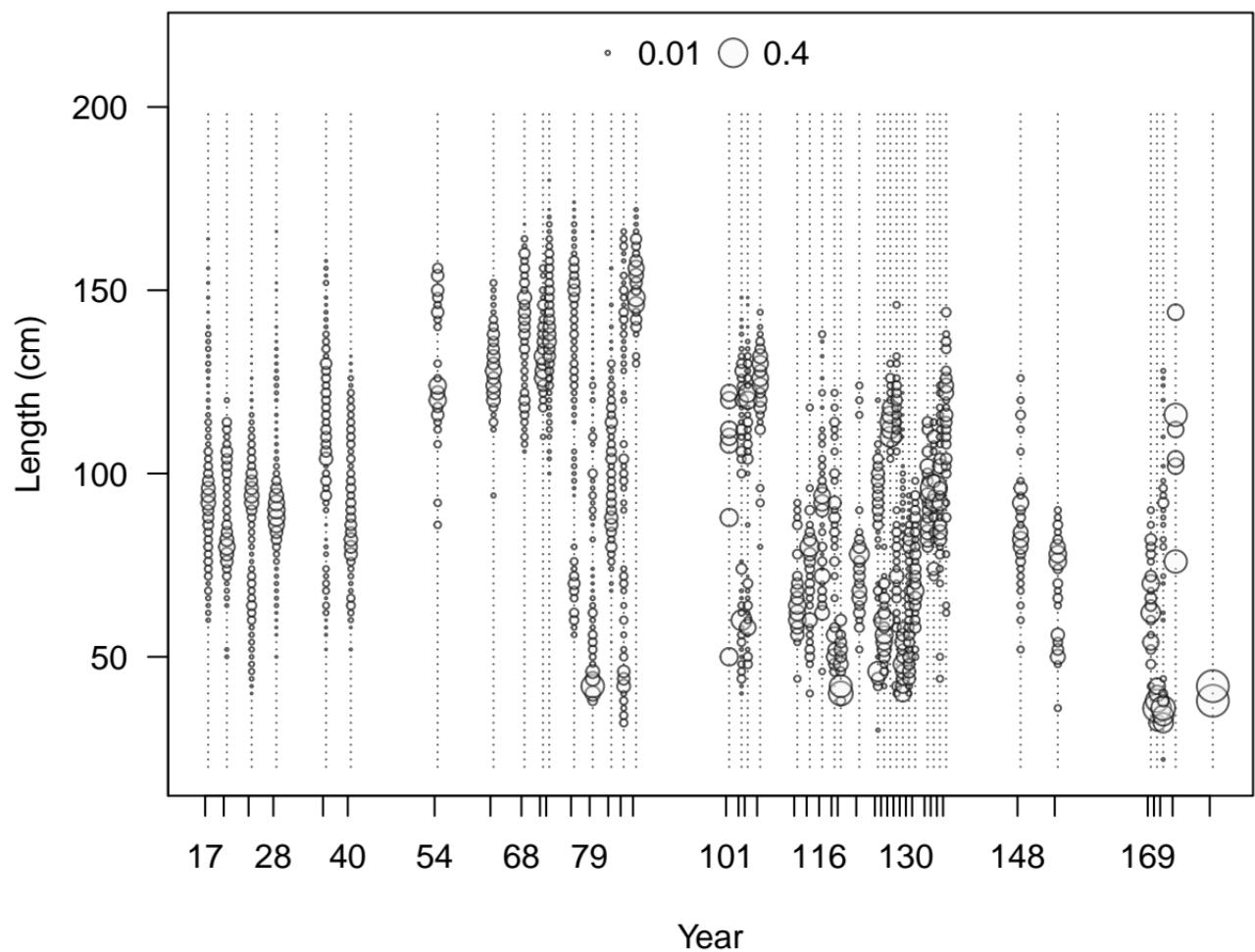




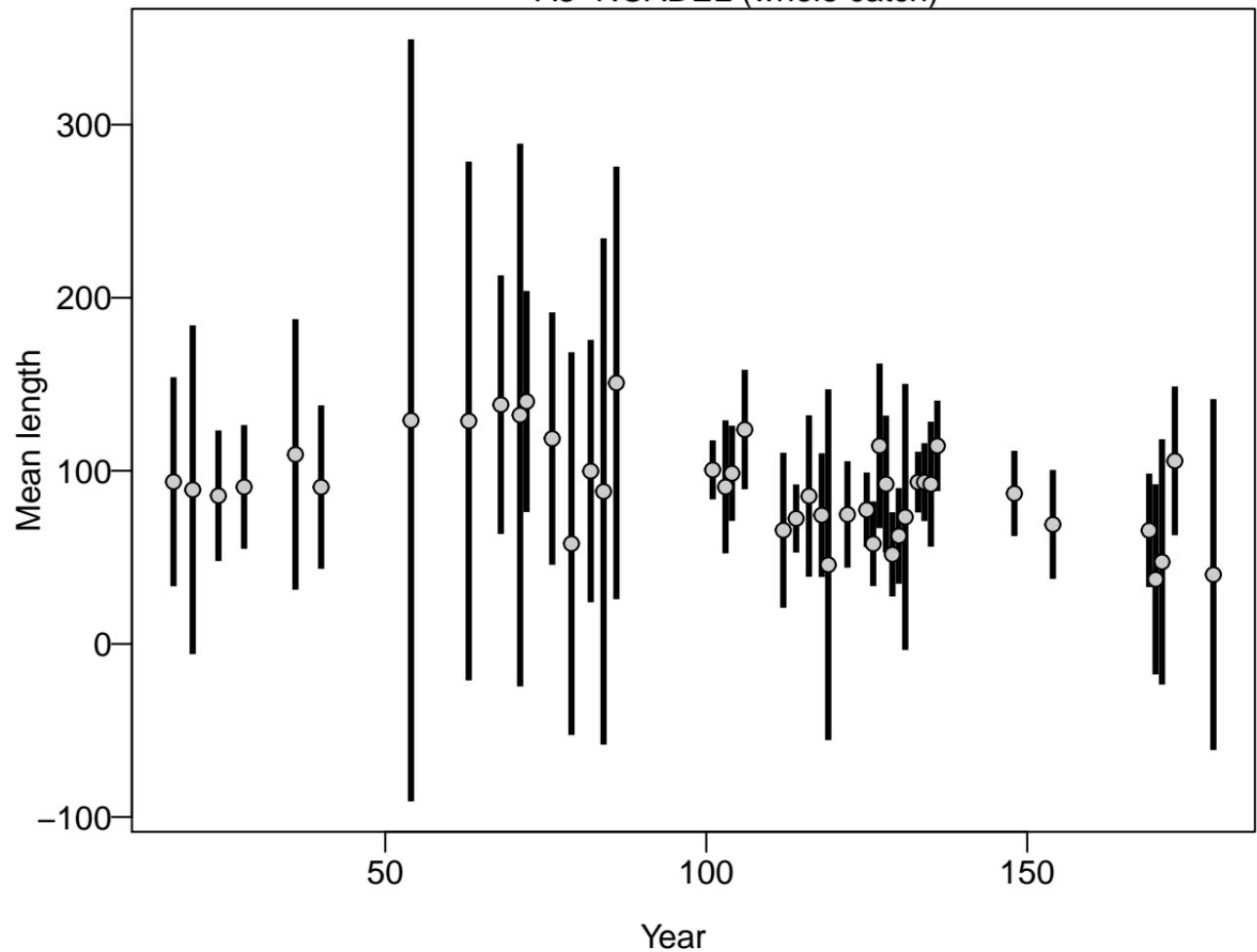
Proportion

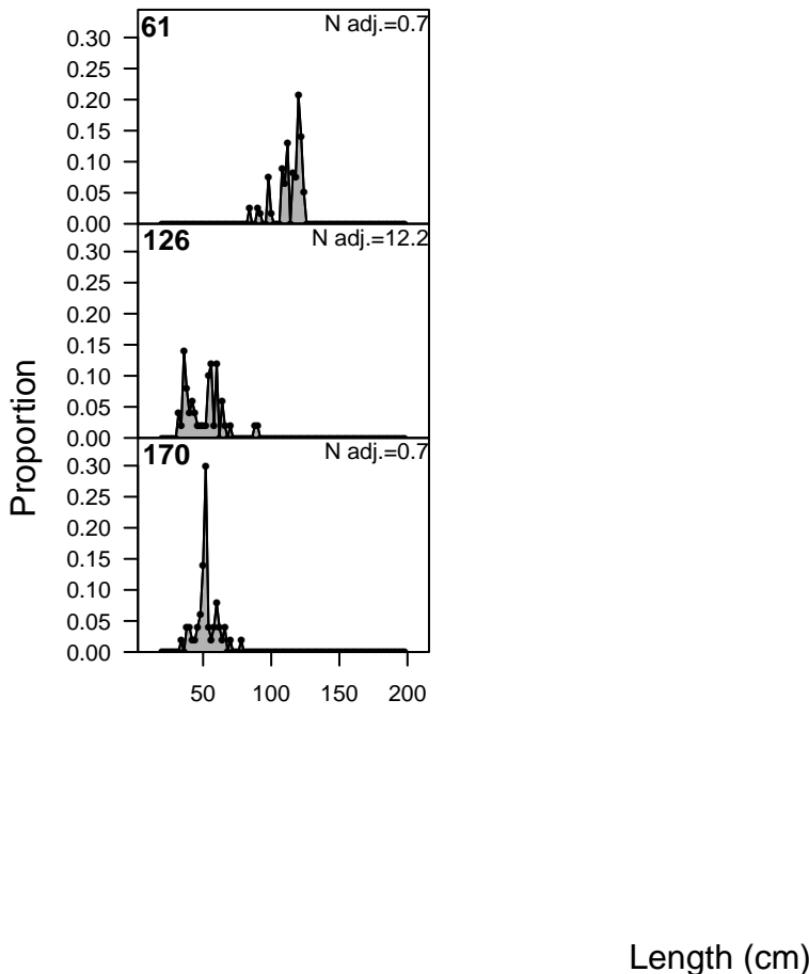


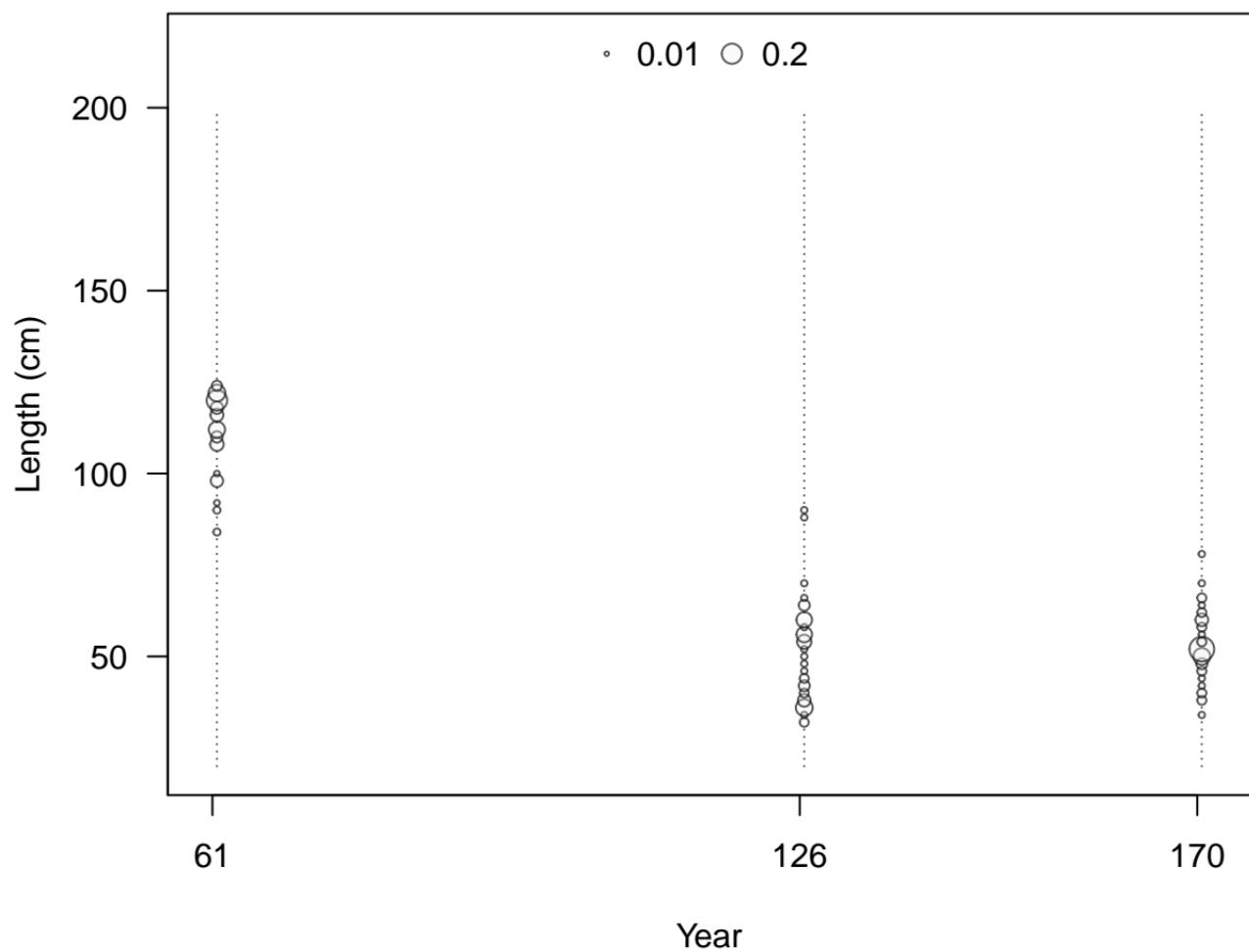




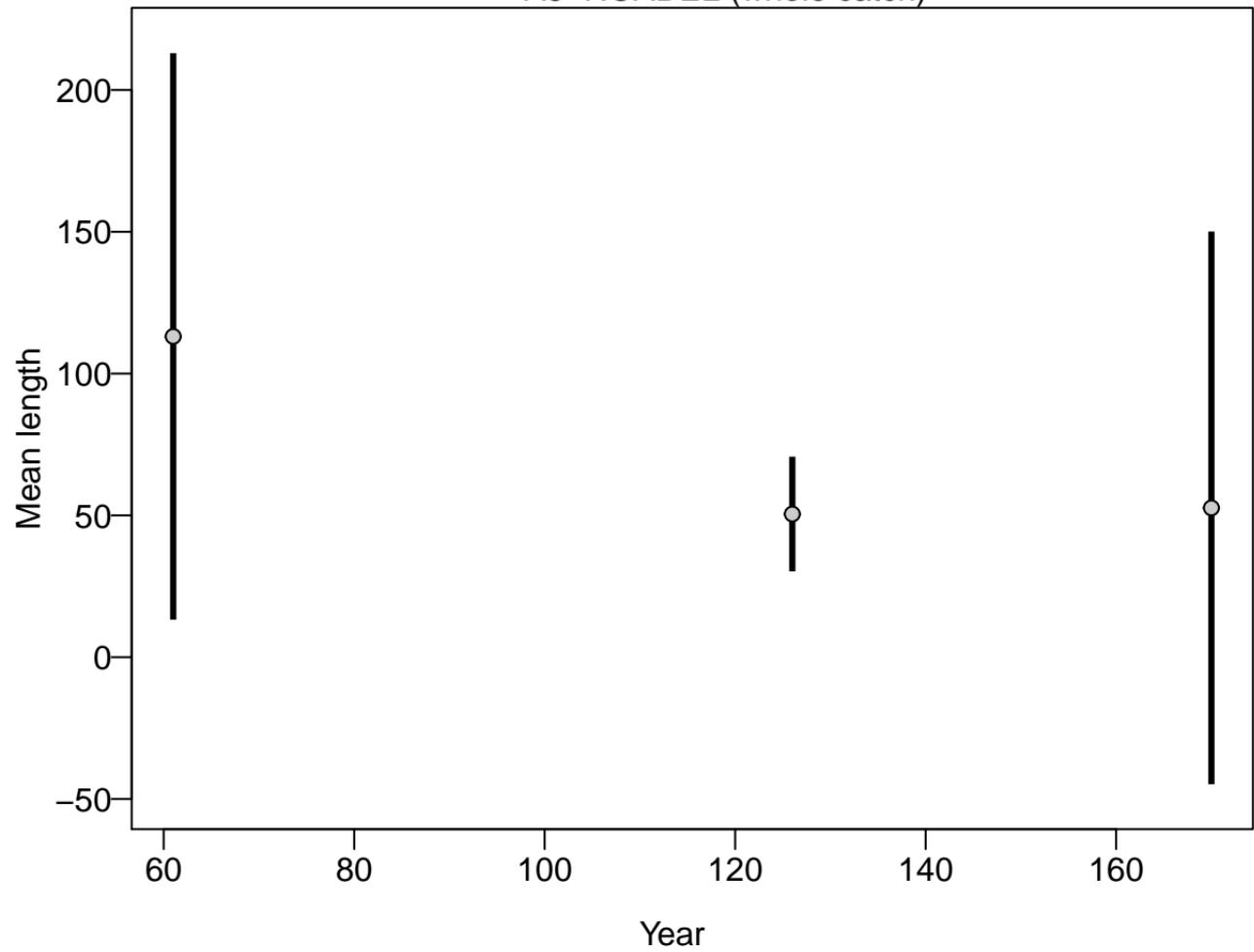
### A3–NOADEL (whole catch)

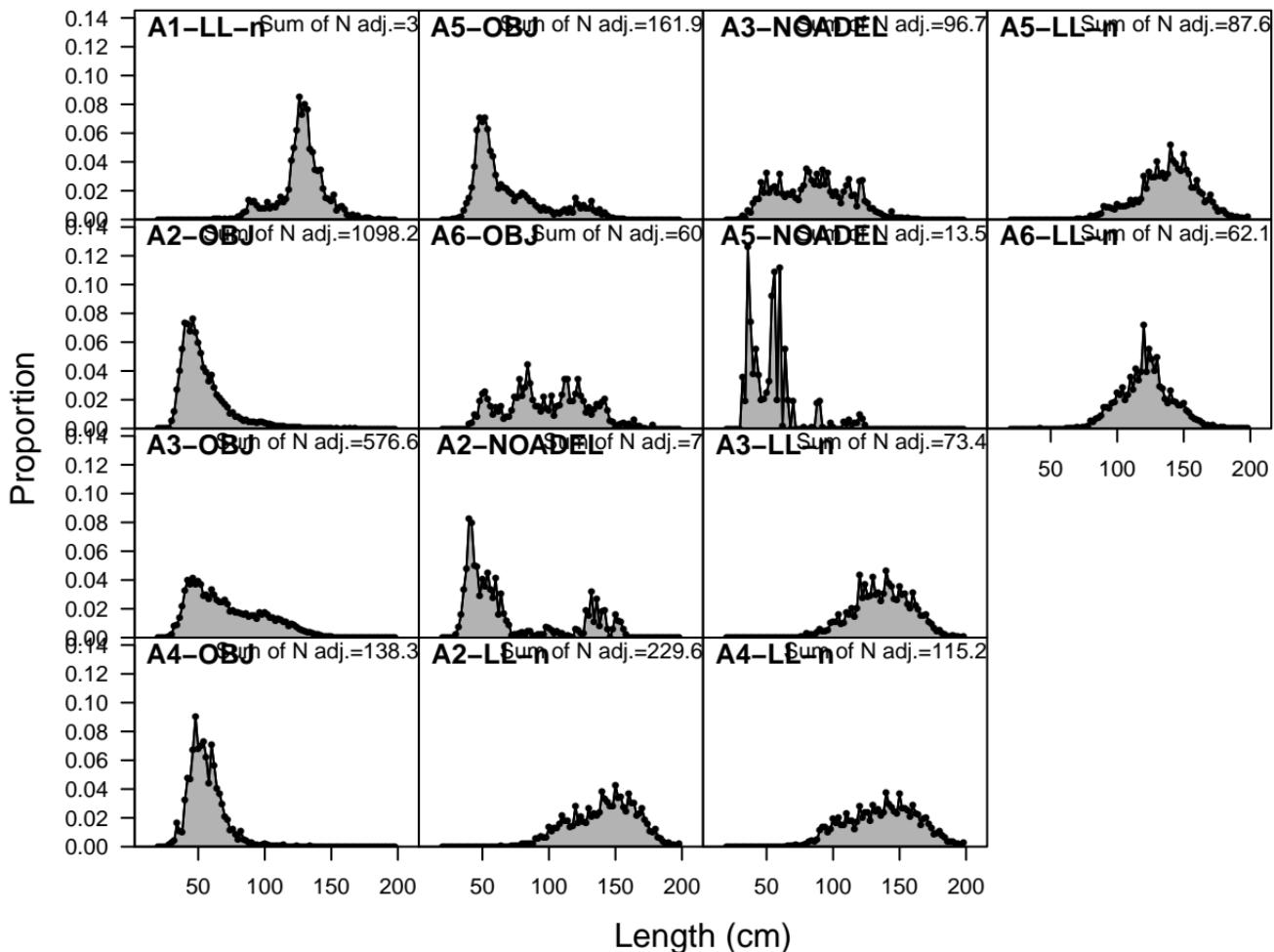


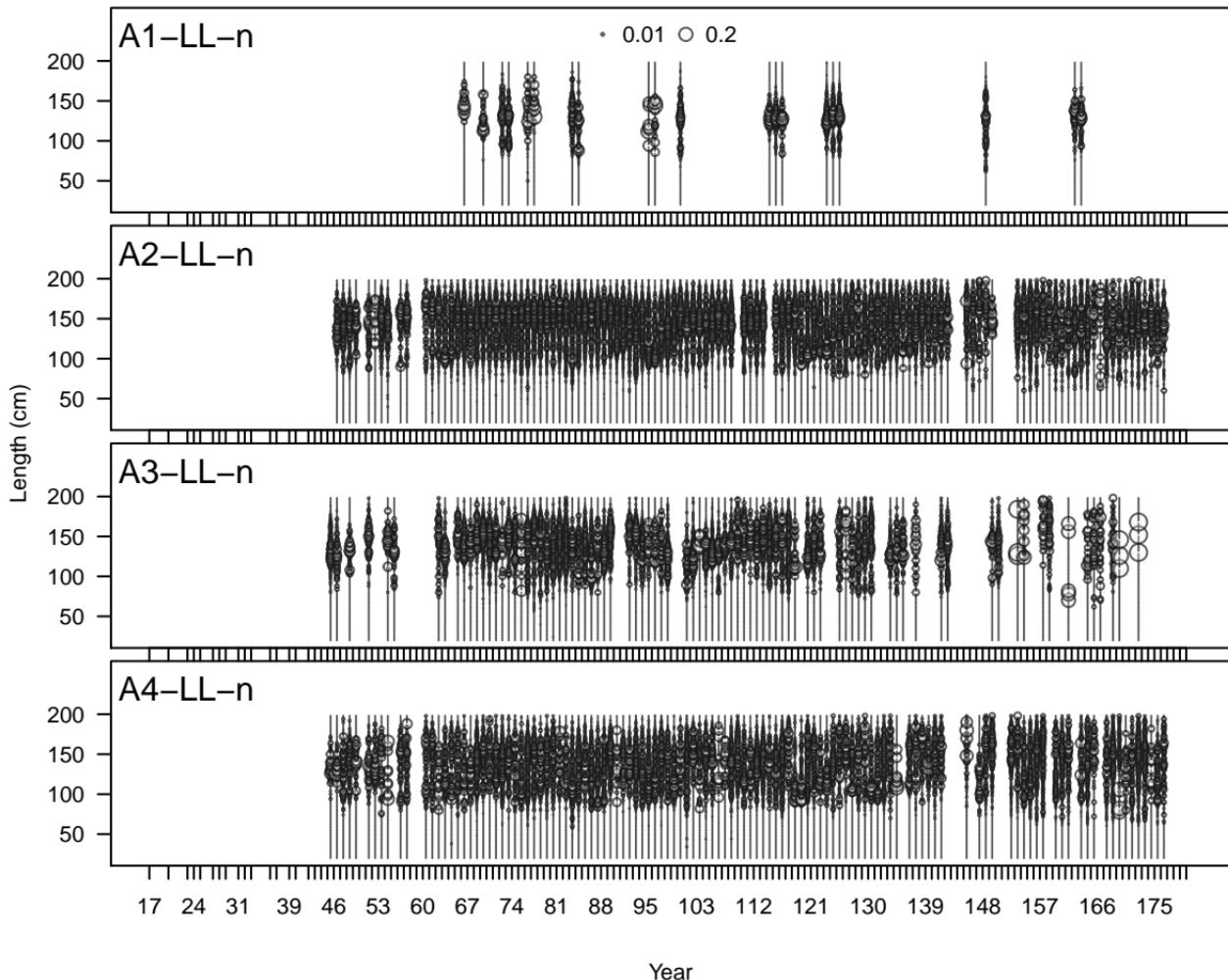


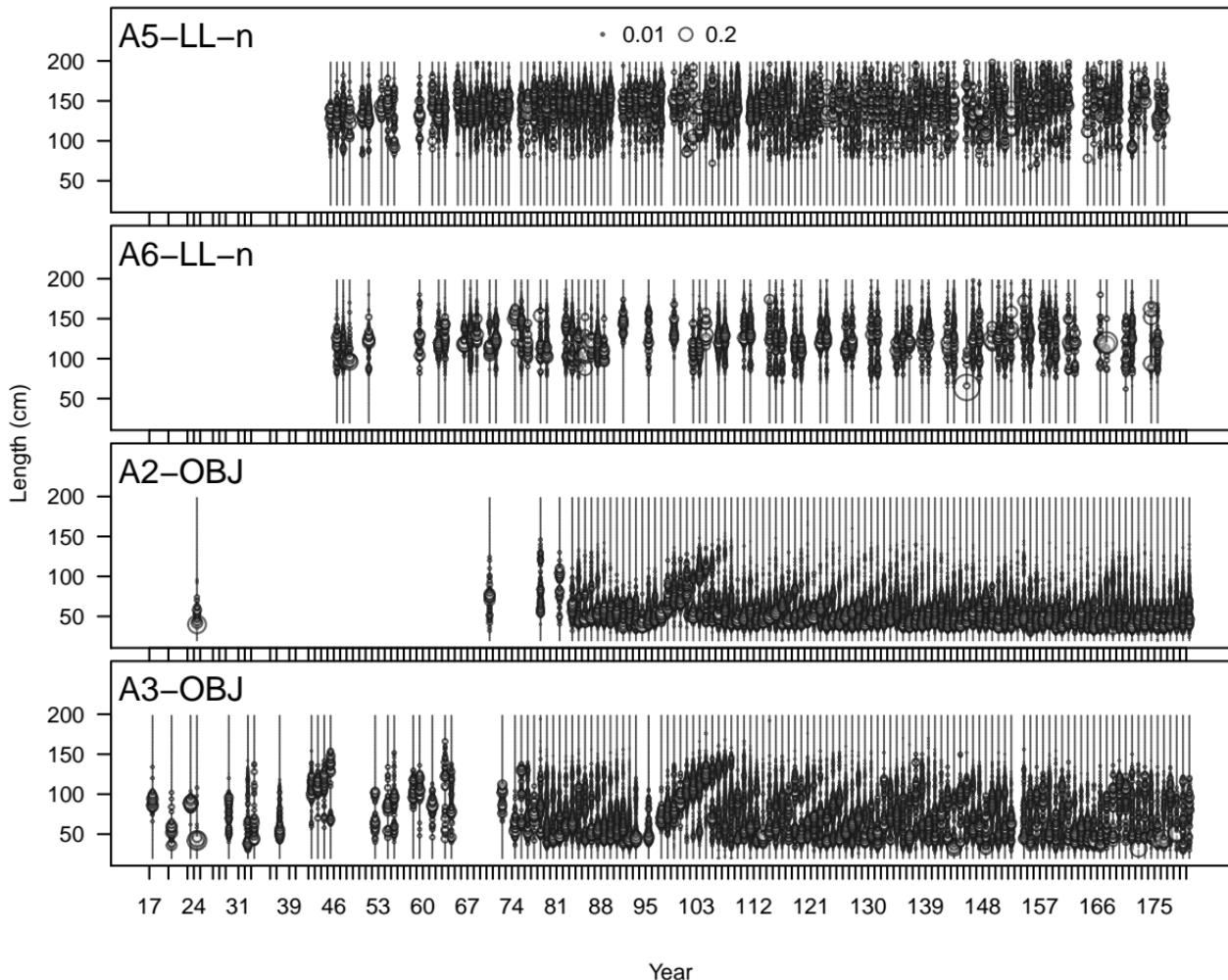


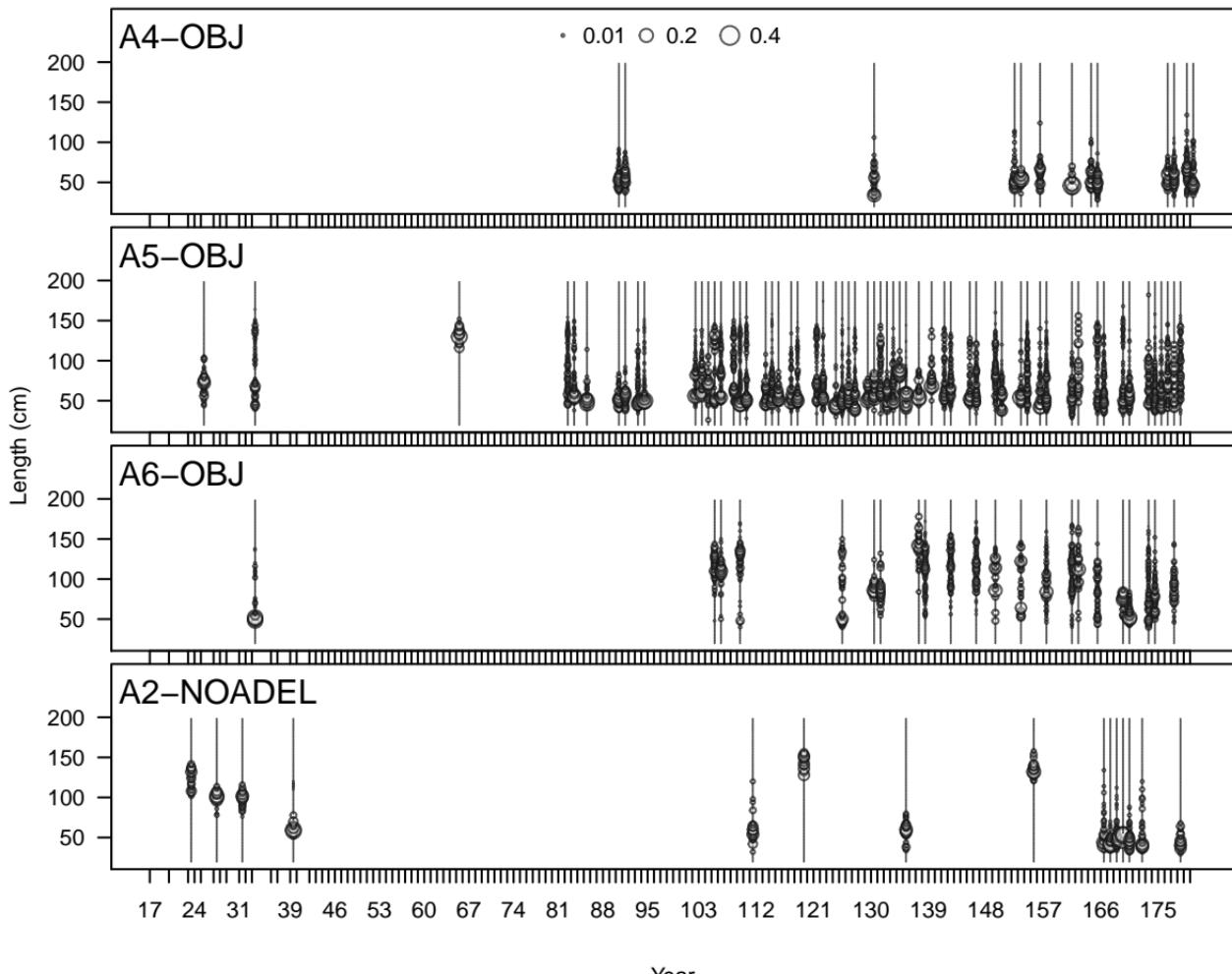
### A5–NOADEL (whole catch)

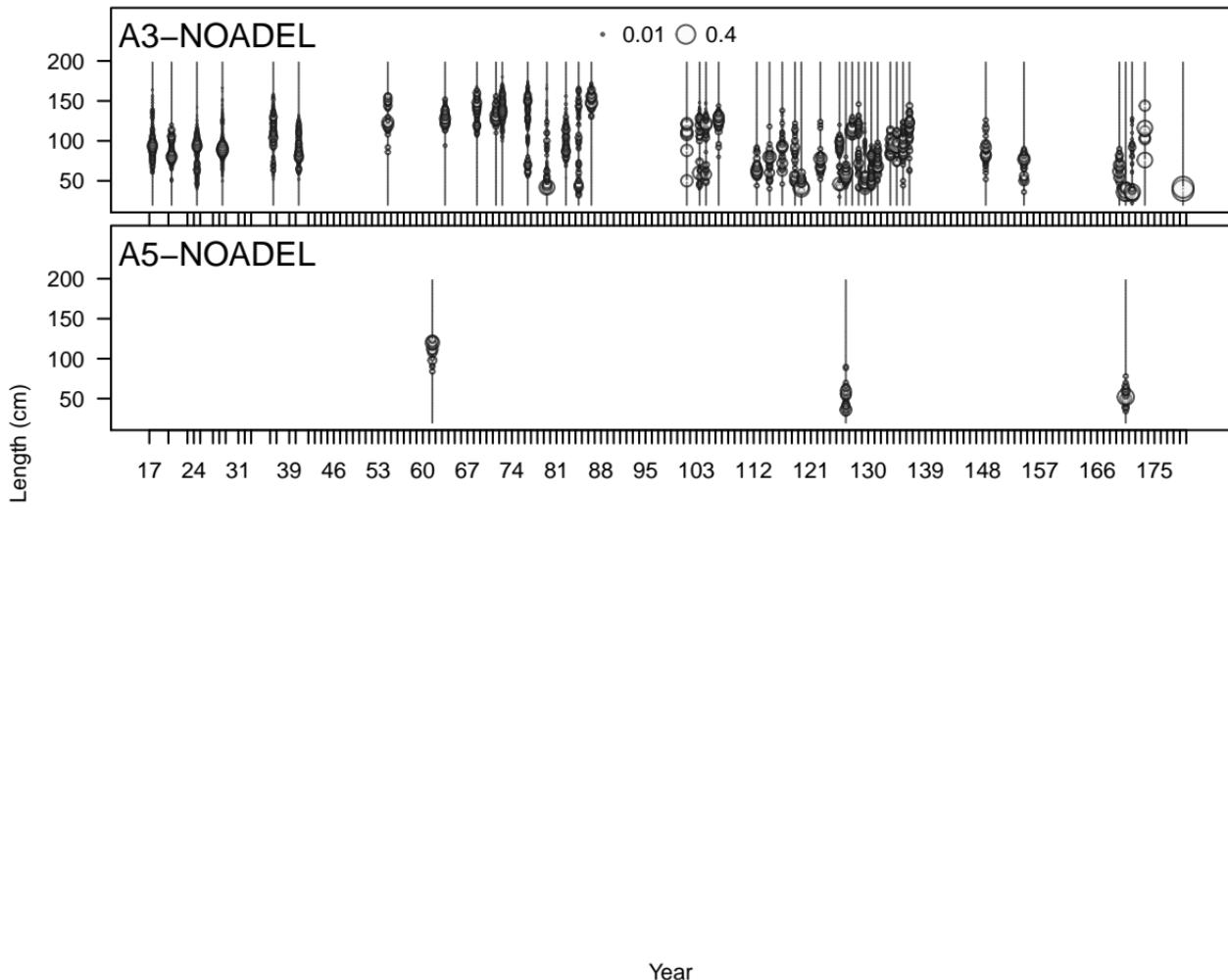




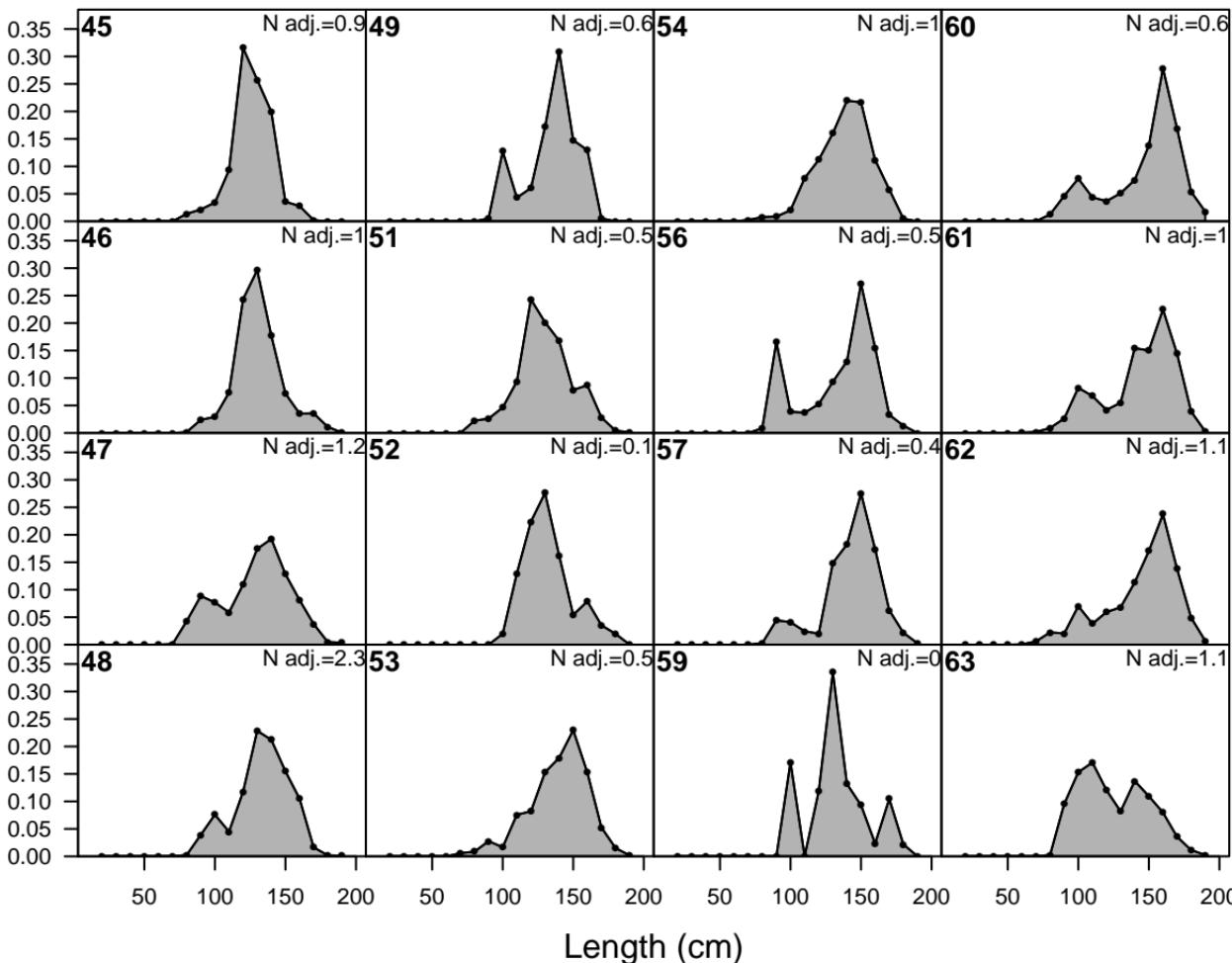




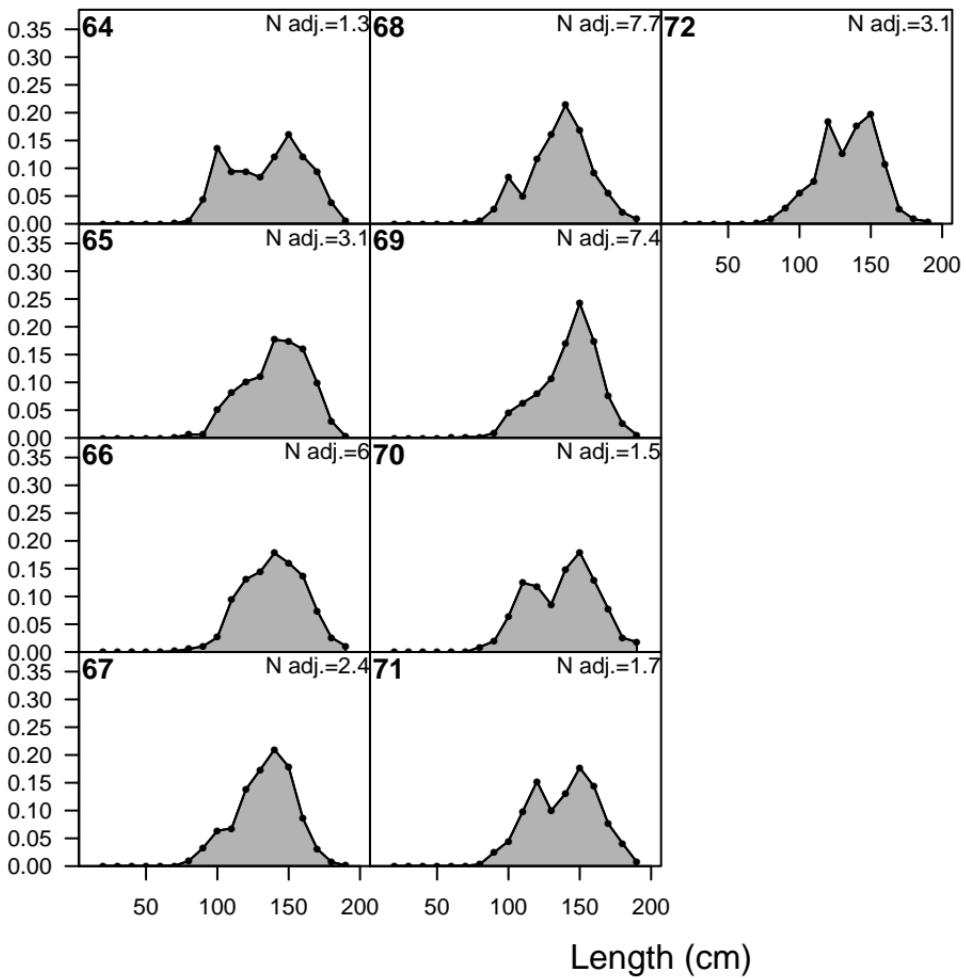


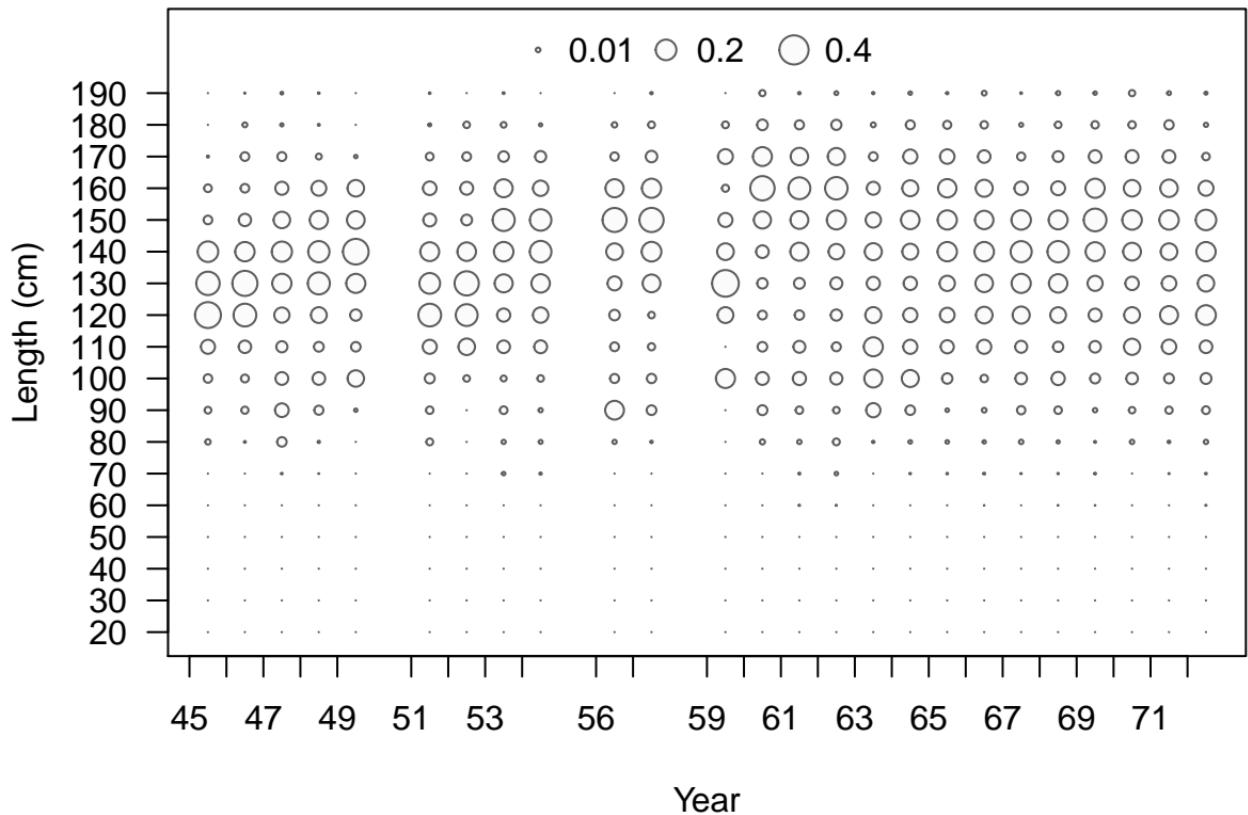


Proportion

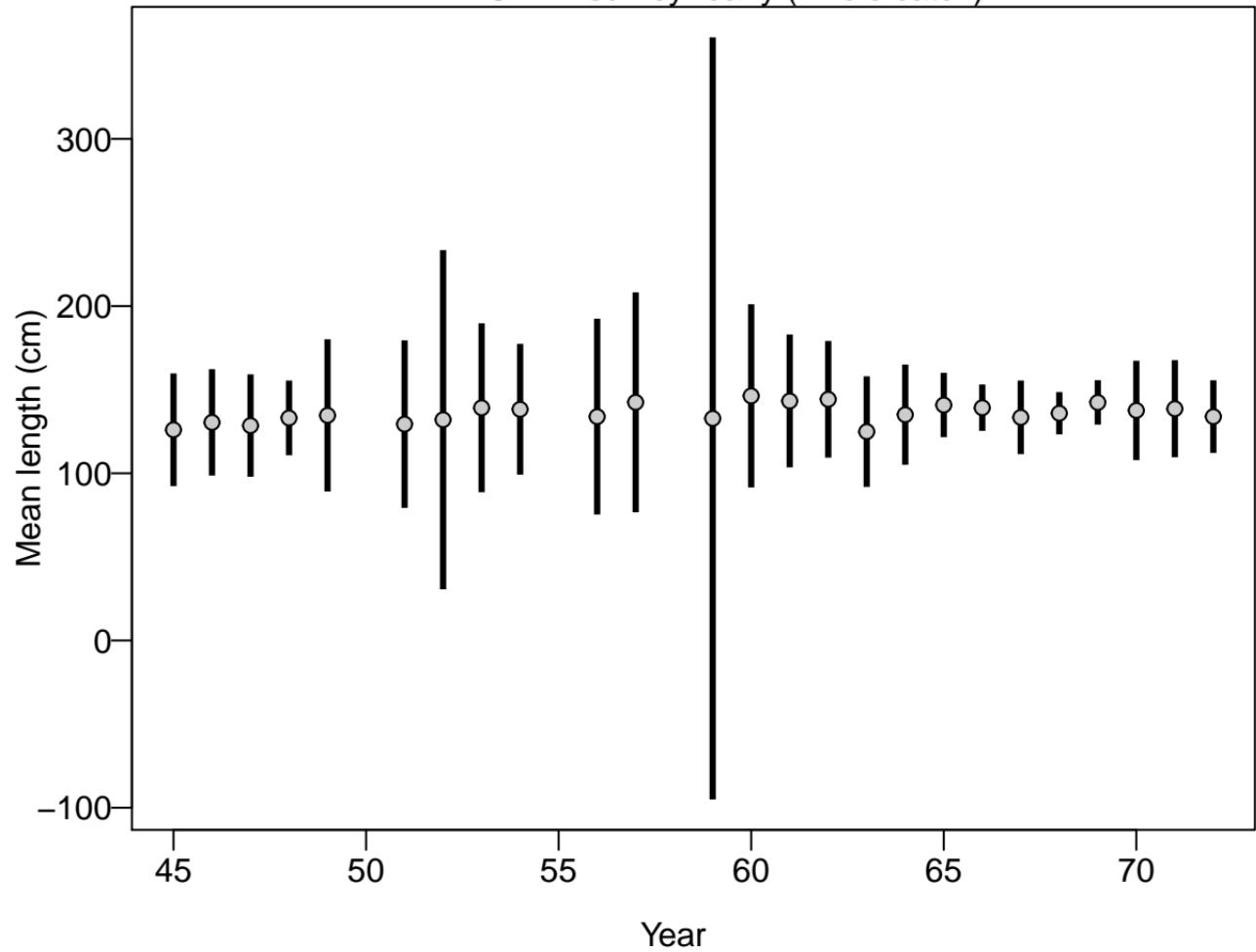


Proportion

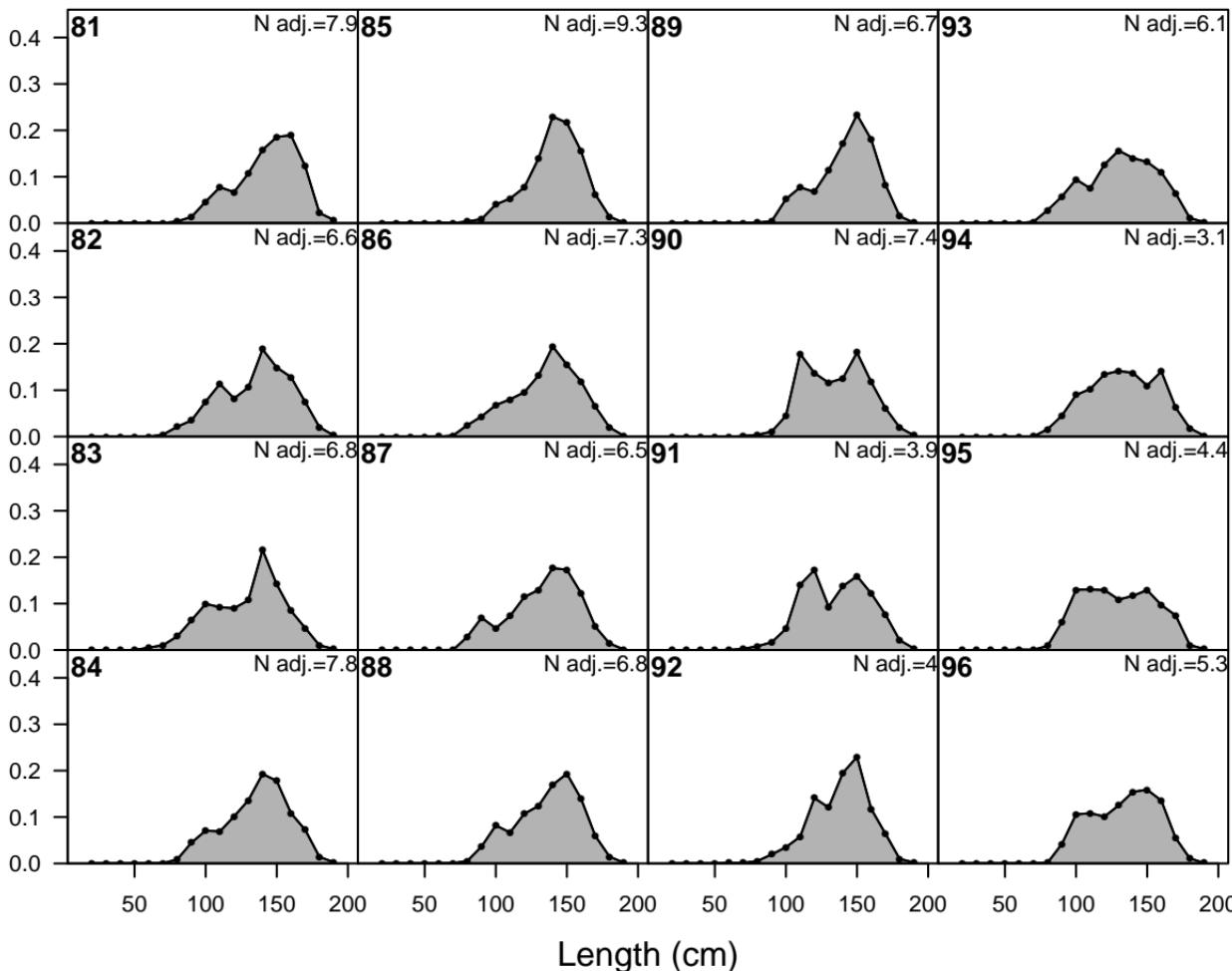




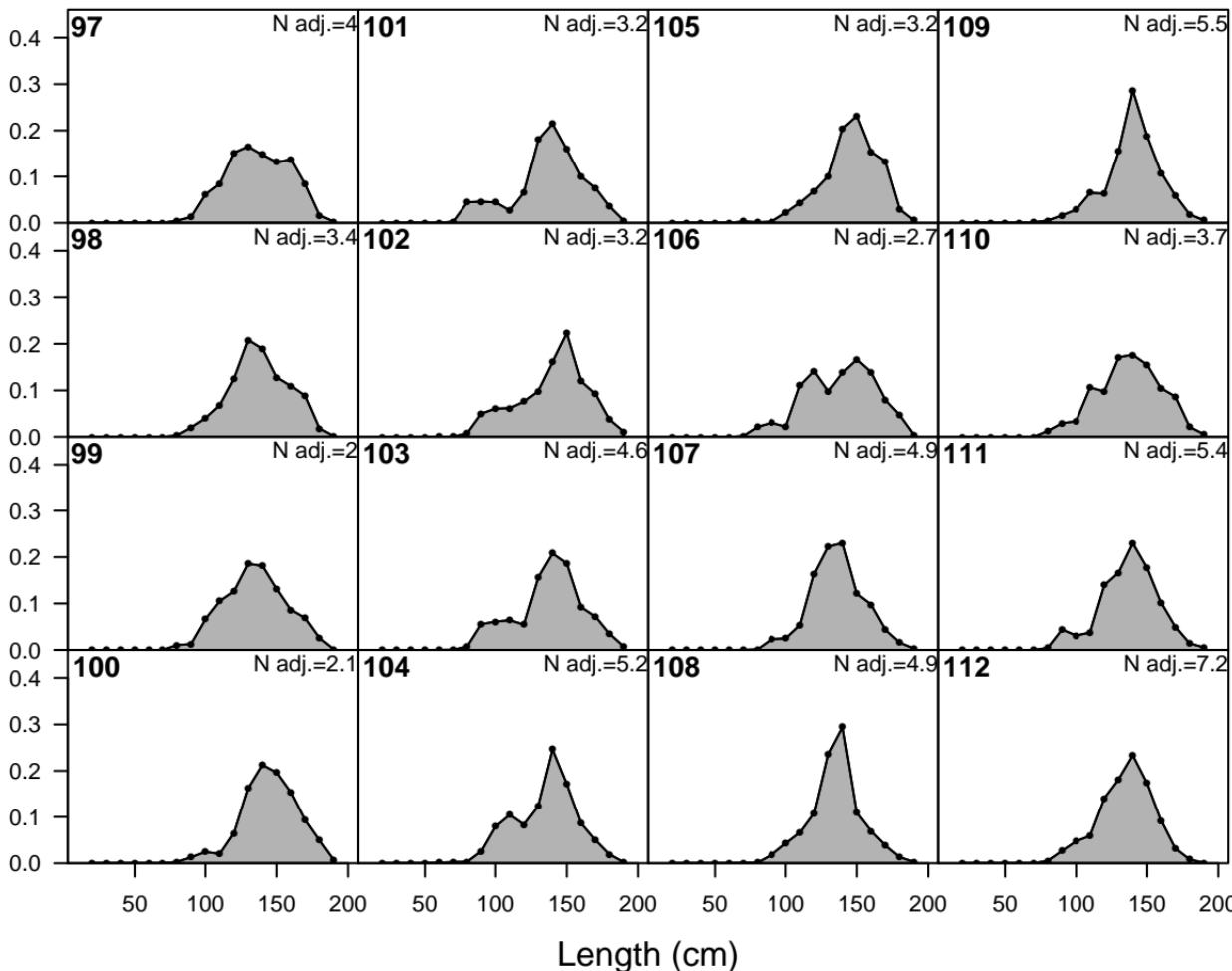
### EPO-LL-survey-early (whole catch)



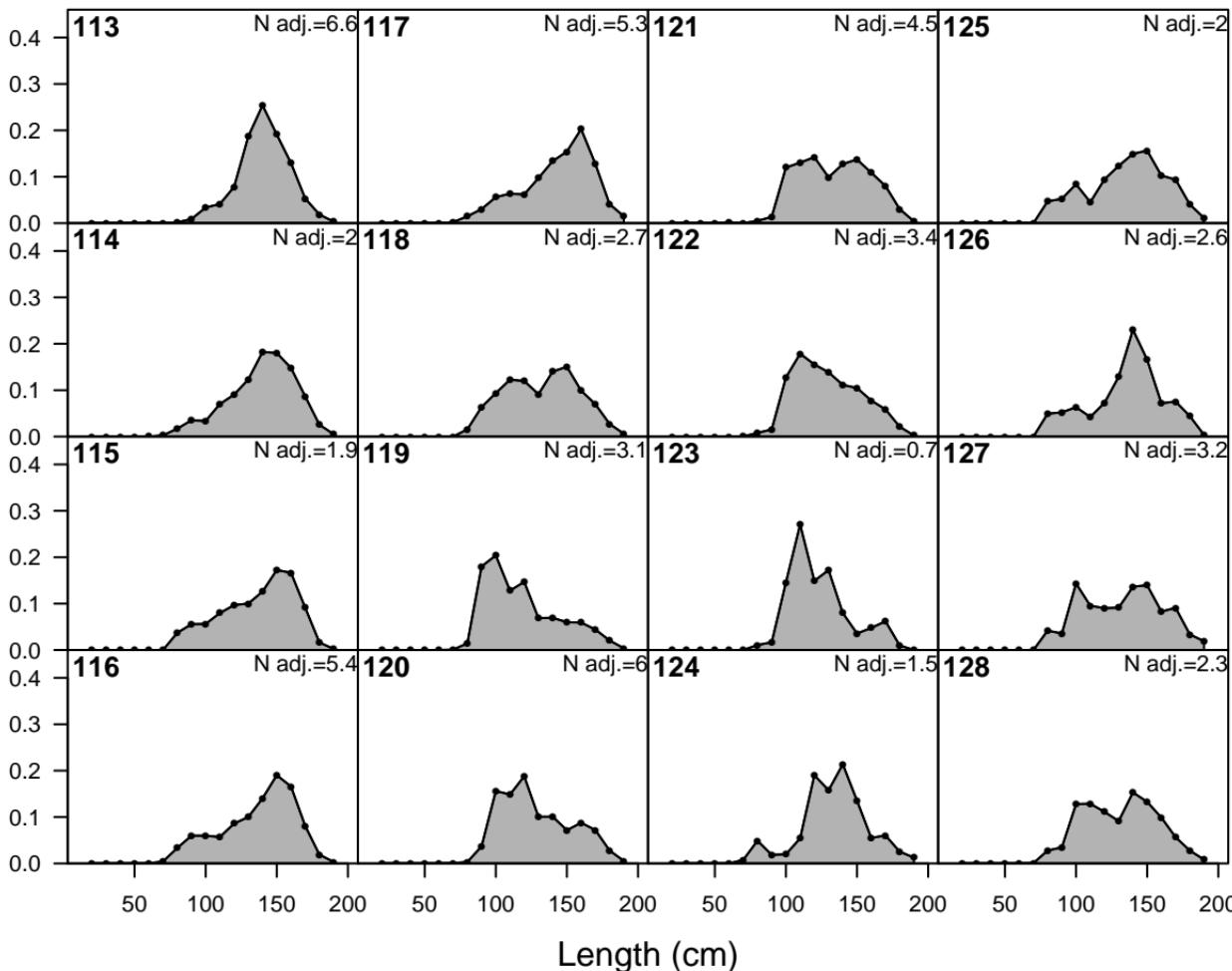
Proportion



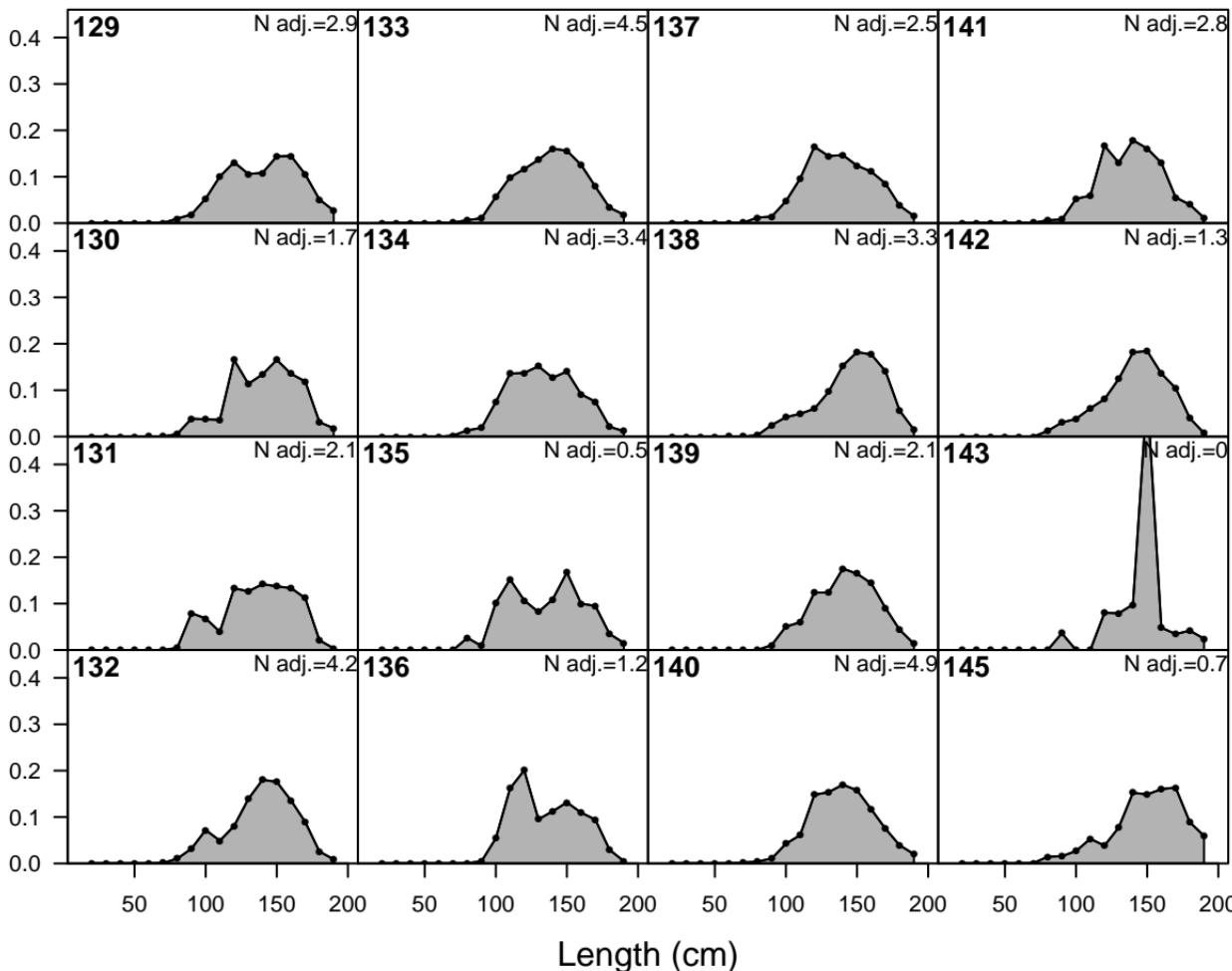
Proportion



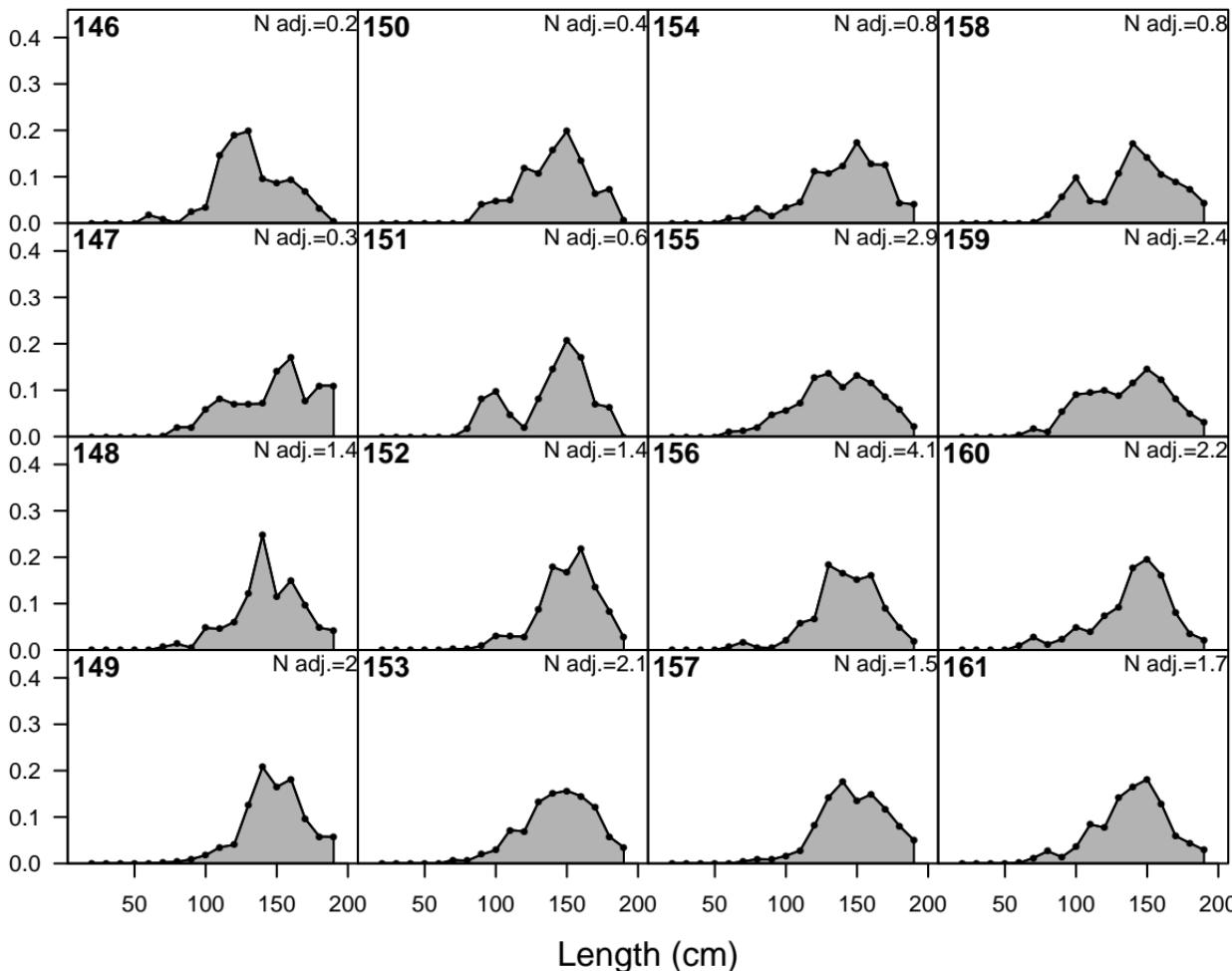
Proportion



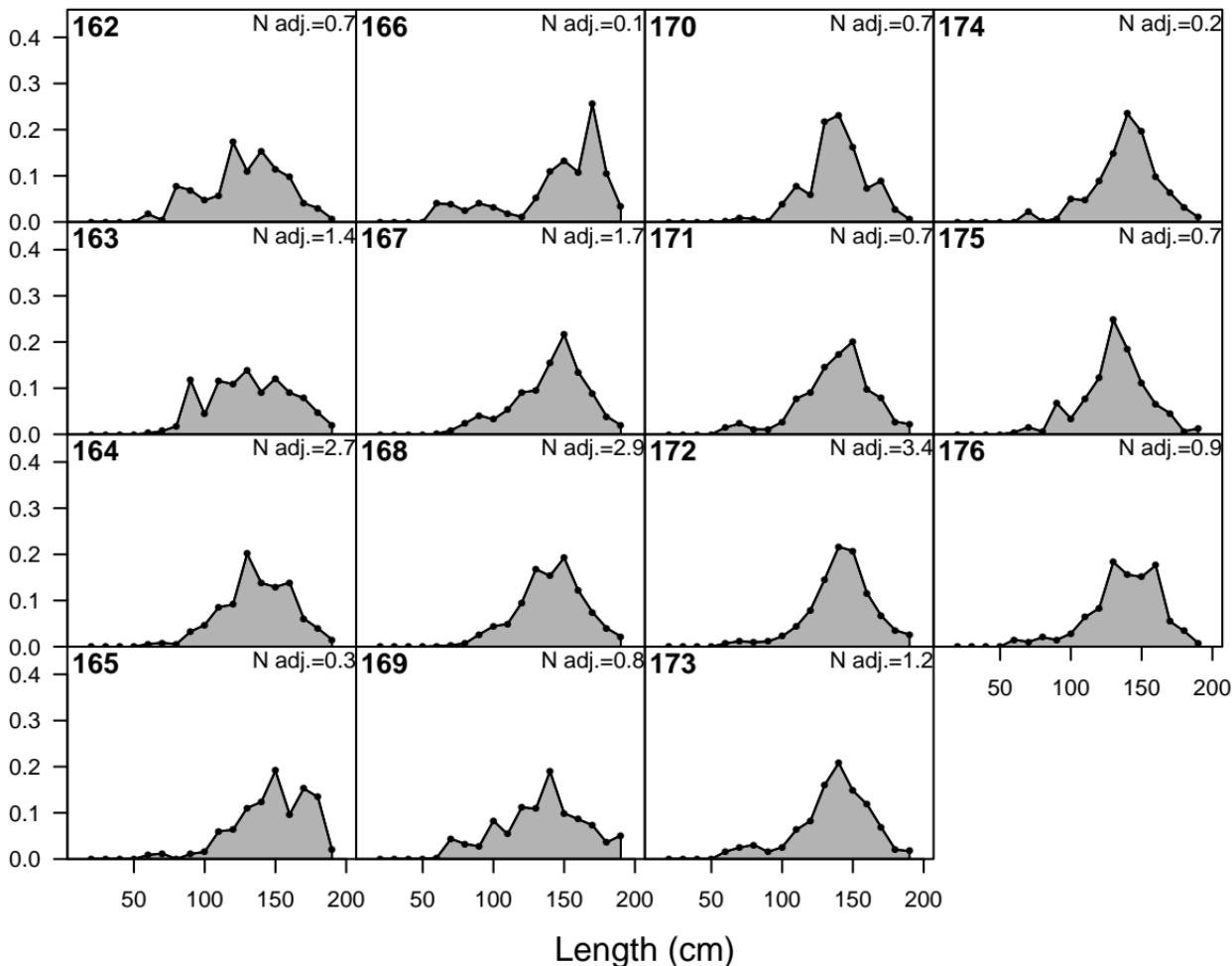
Proportion

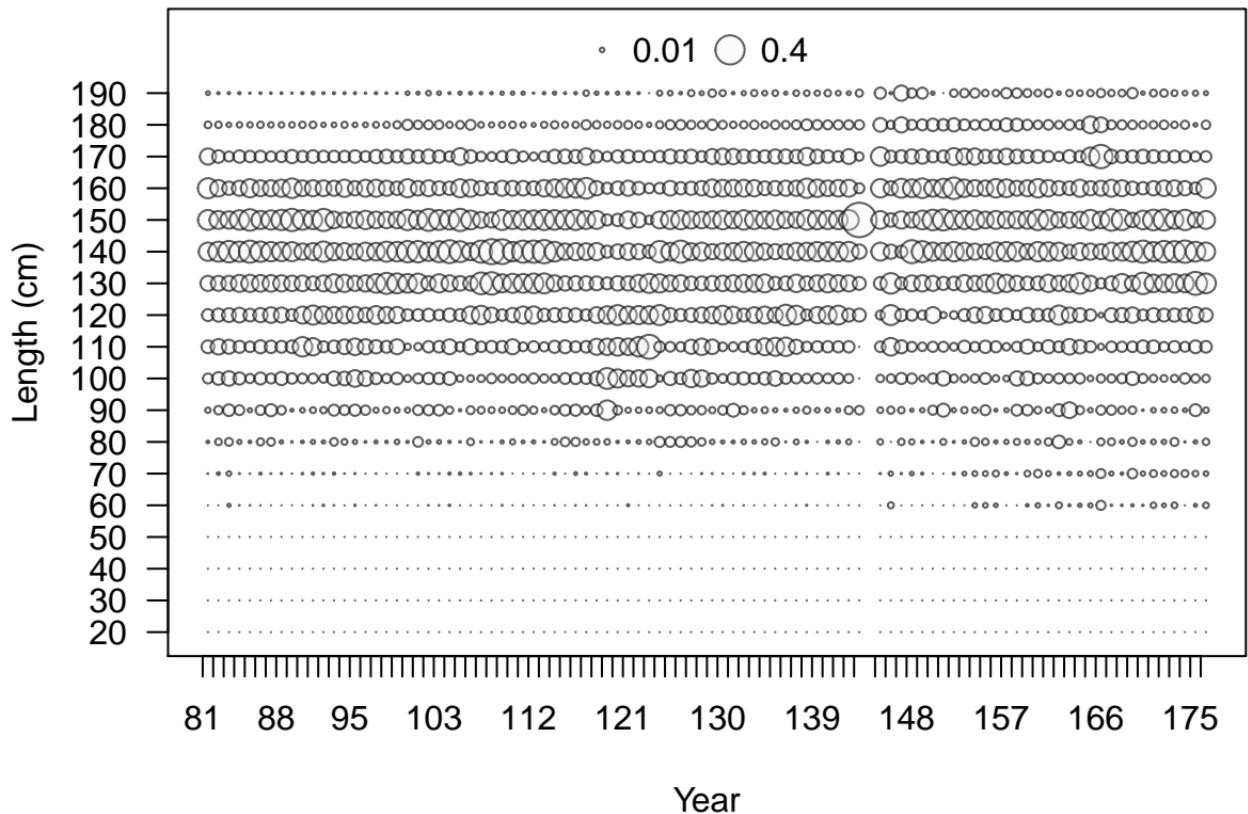


Proportion

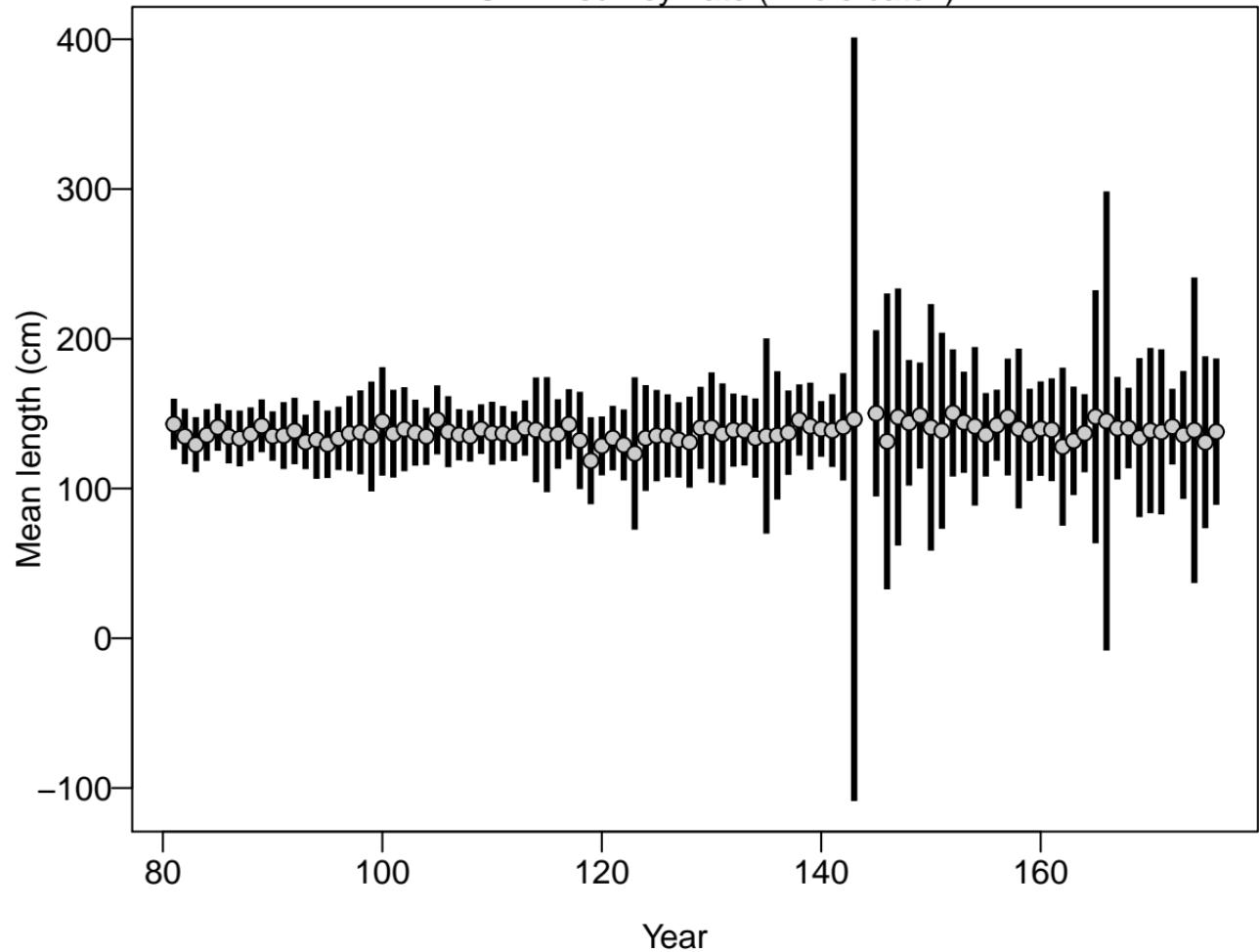


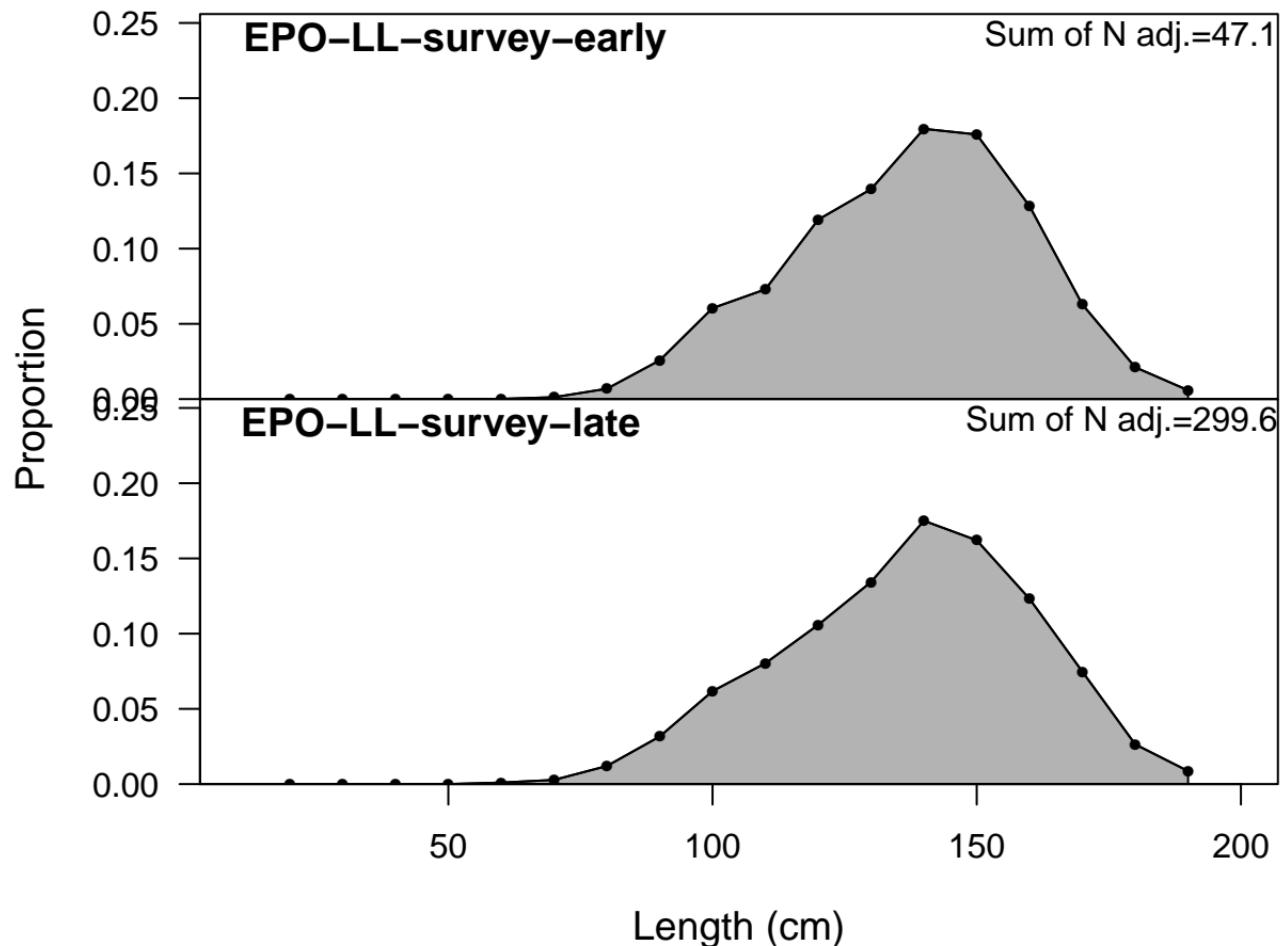
Proportion



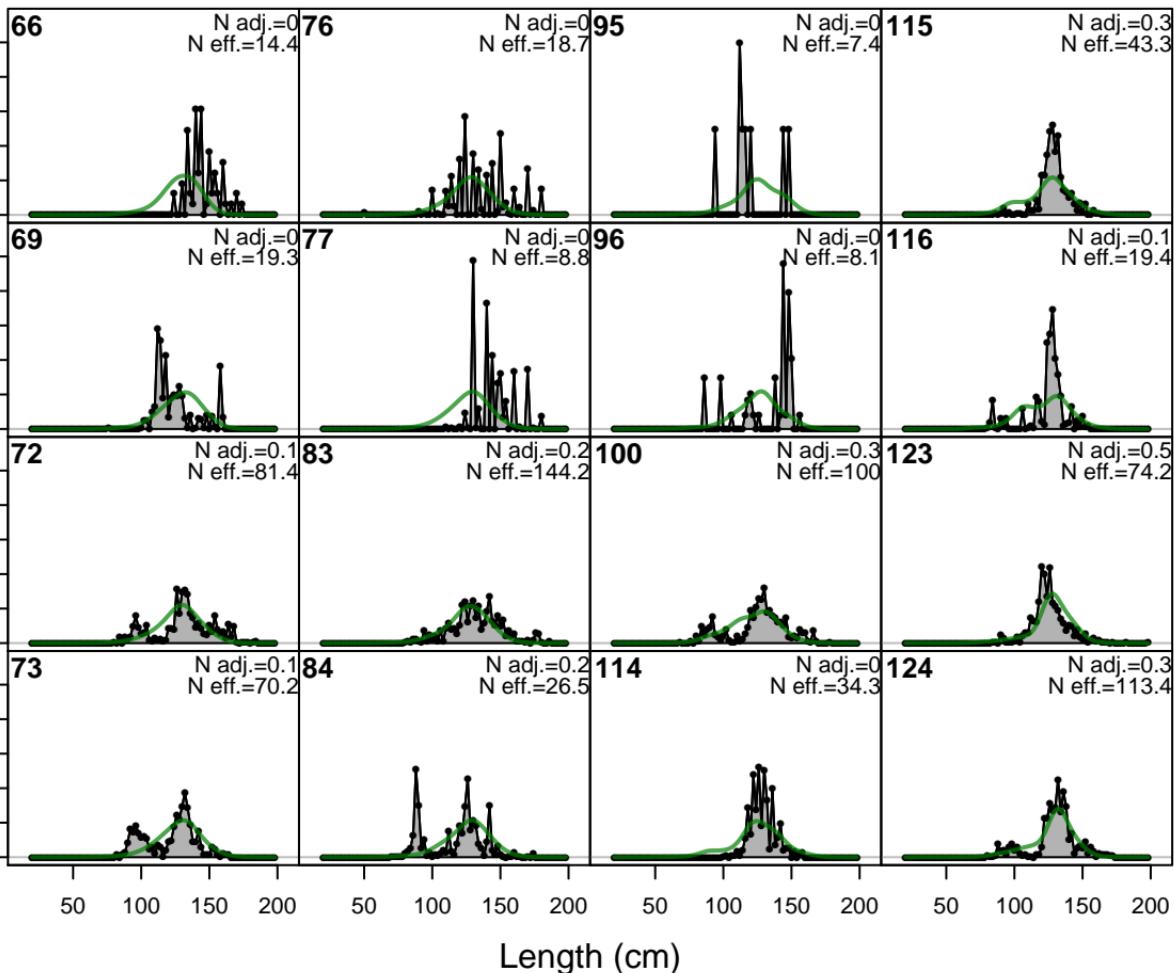


### EPO-LL-survey-late (whole catch)

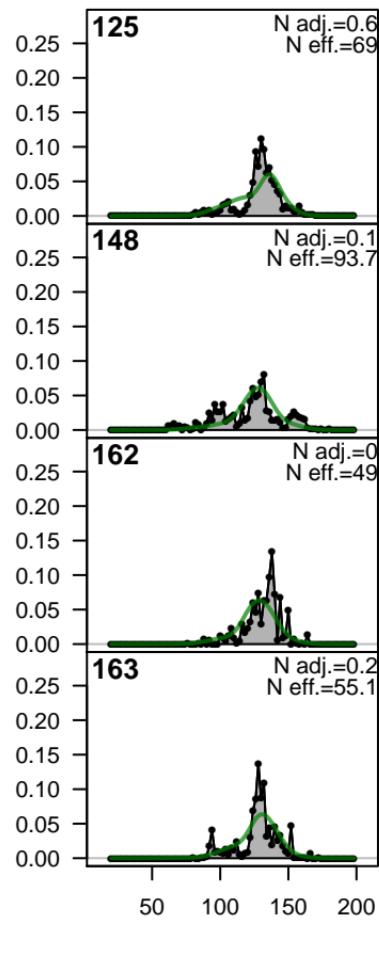




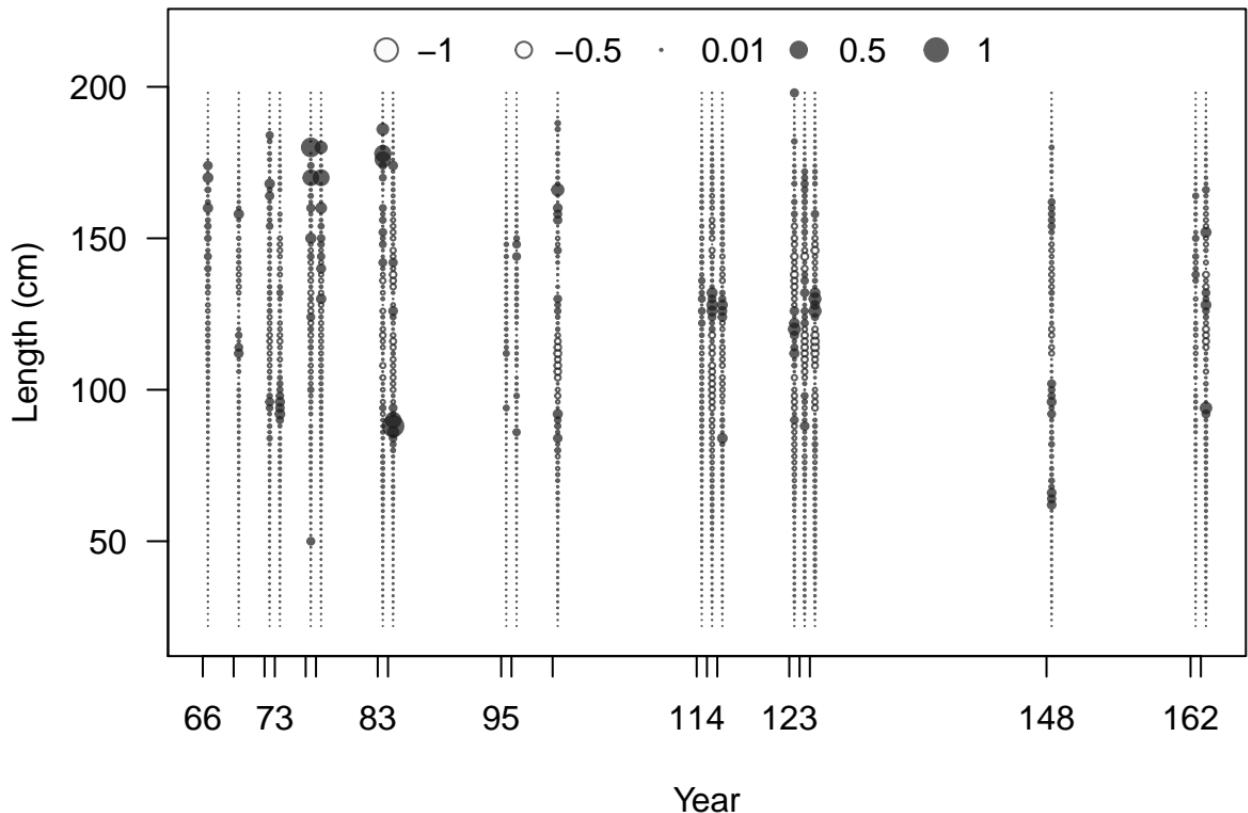
Proportion



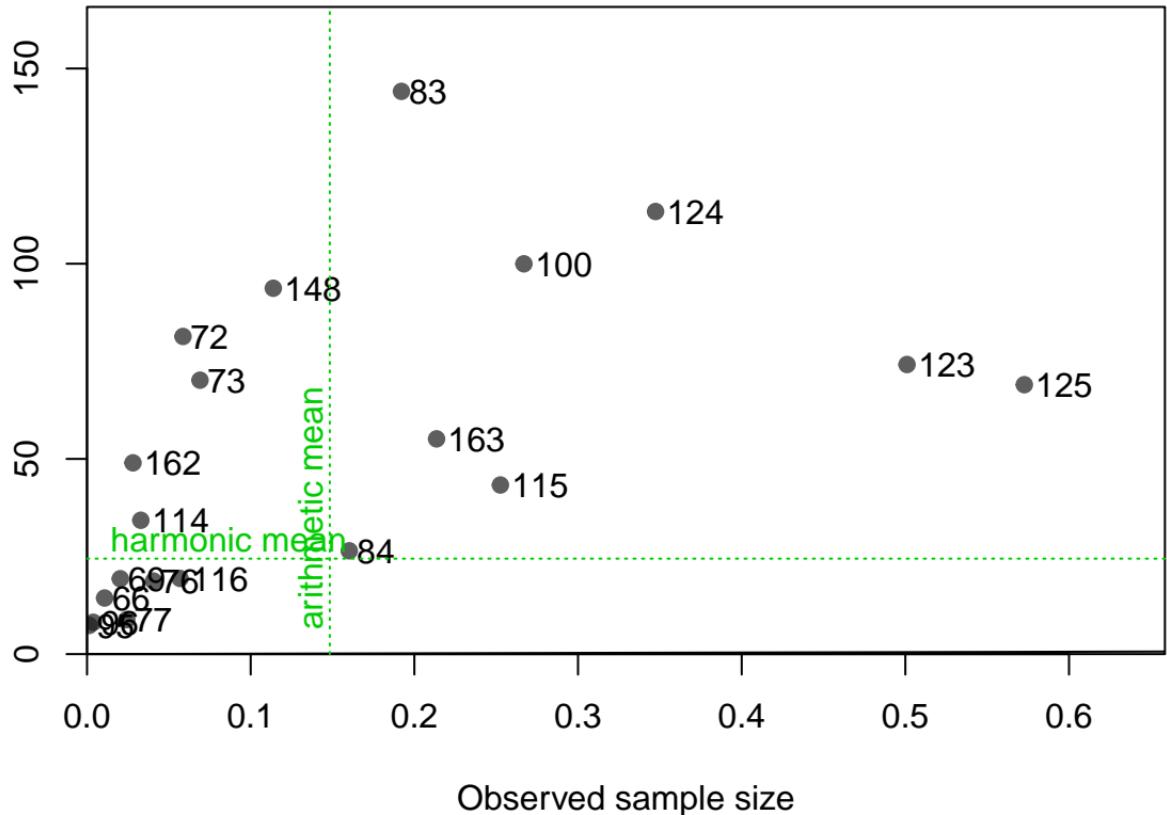
Proportion



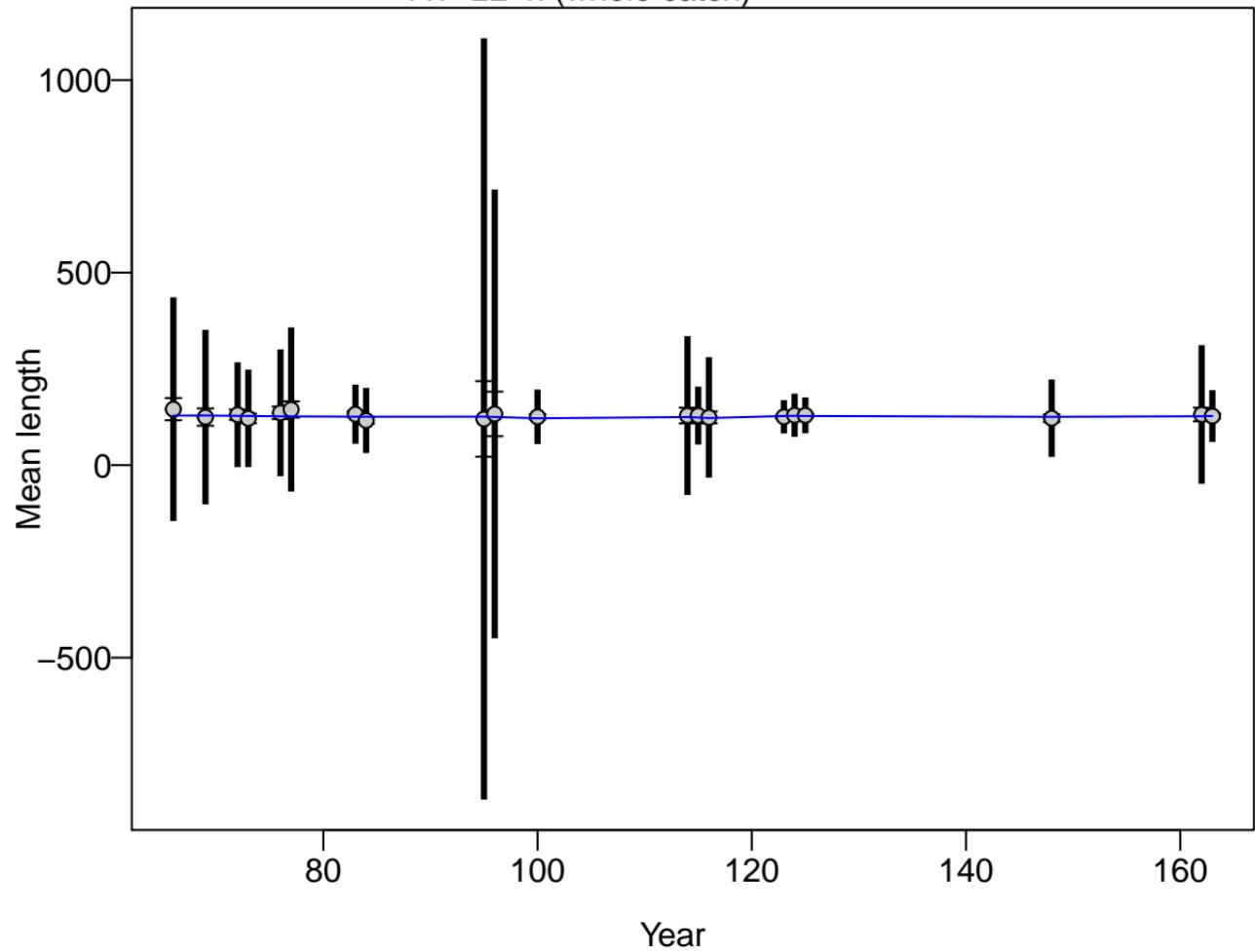
Length (cm)



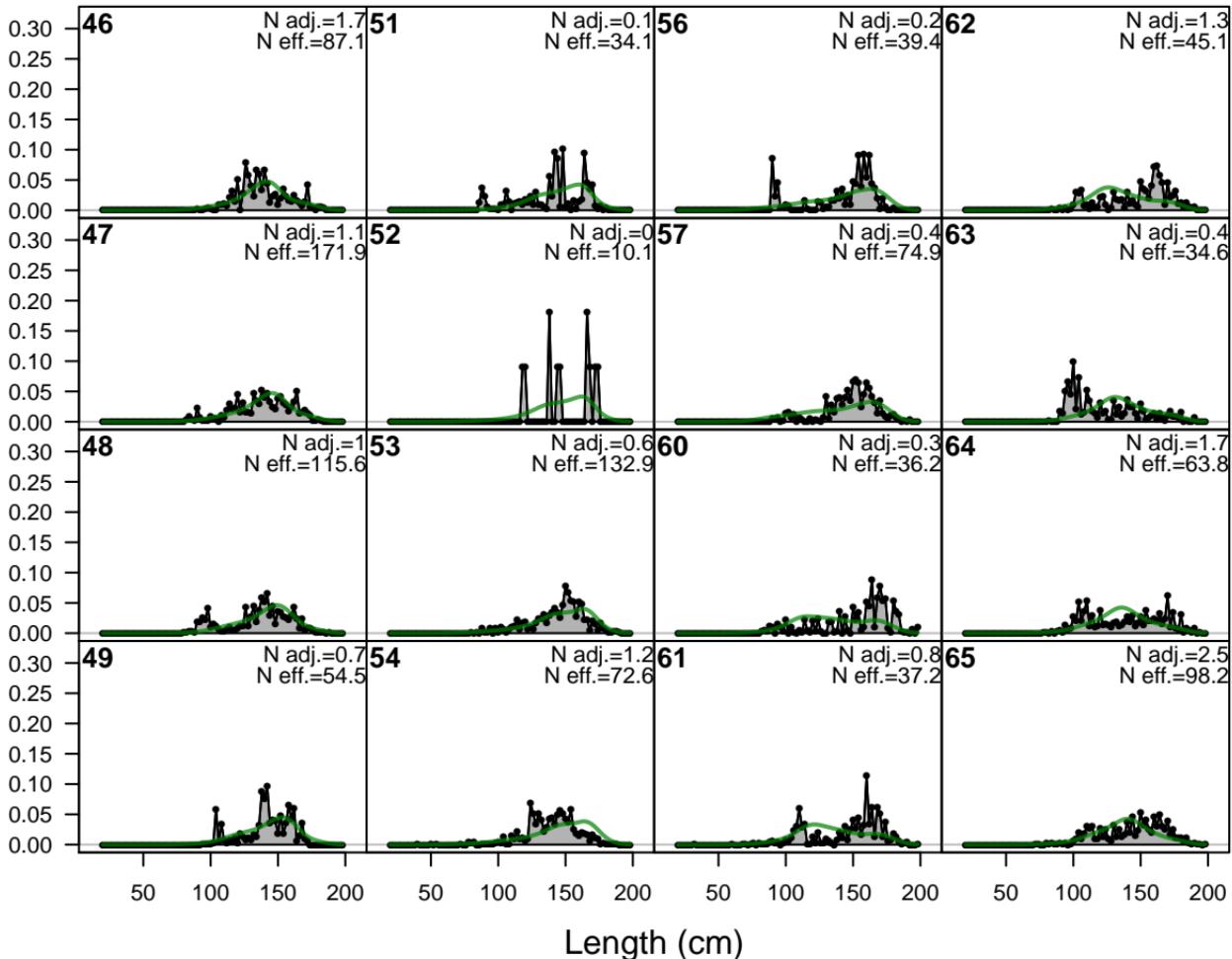
Effective sample size



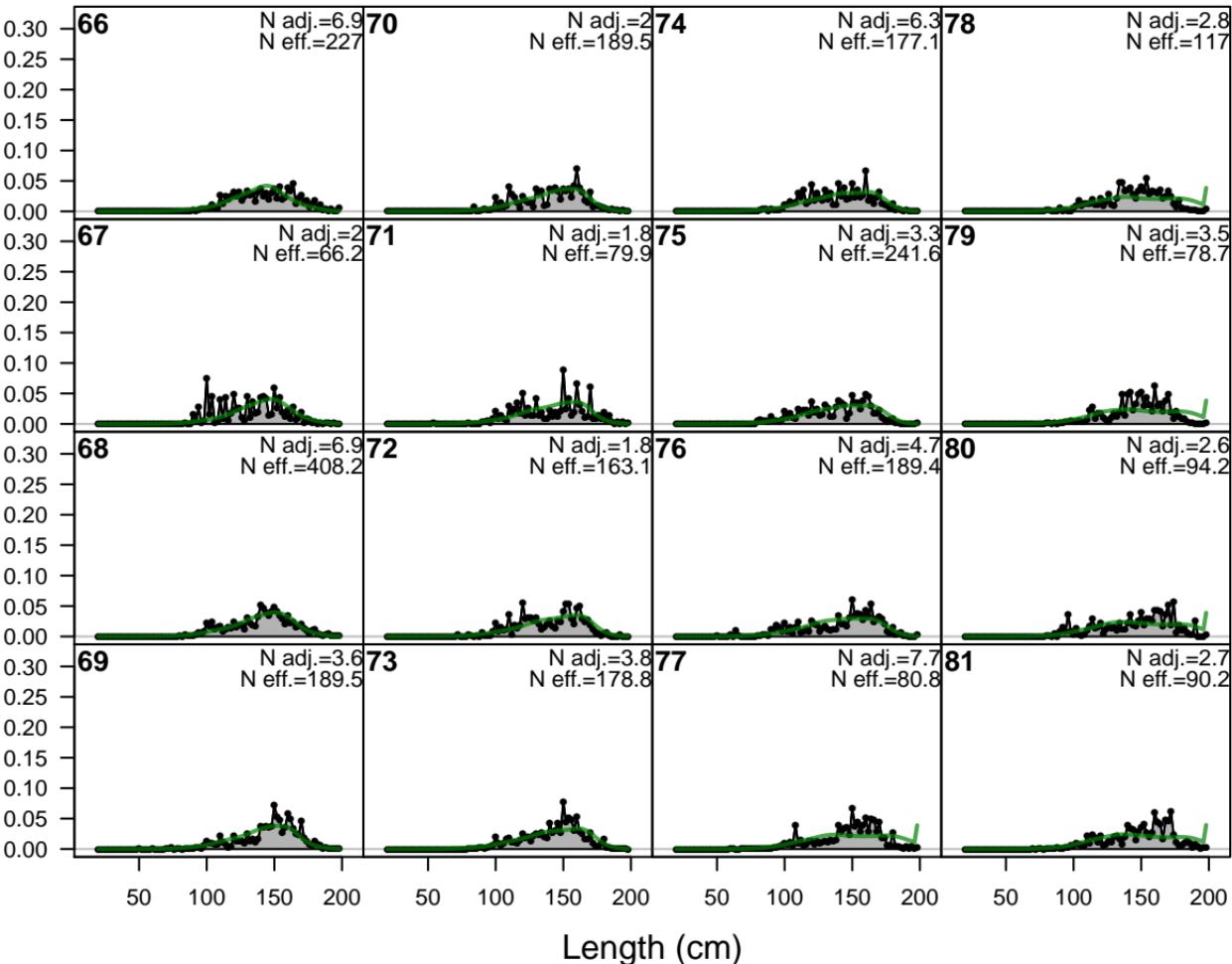
### A1-LL-n (whole catch)



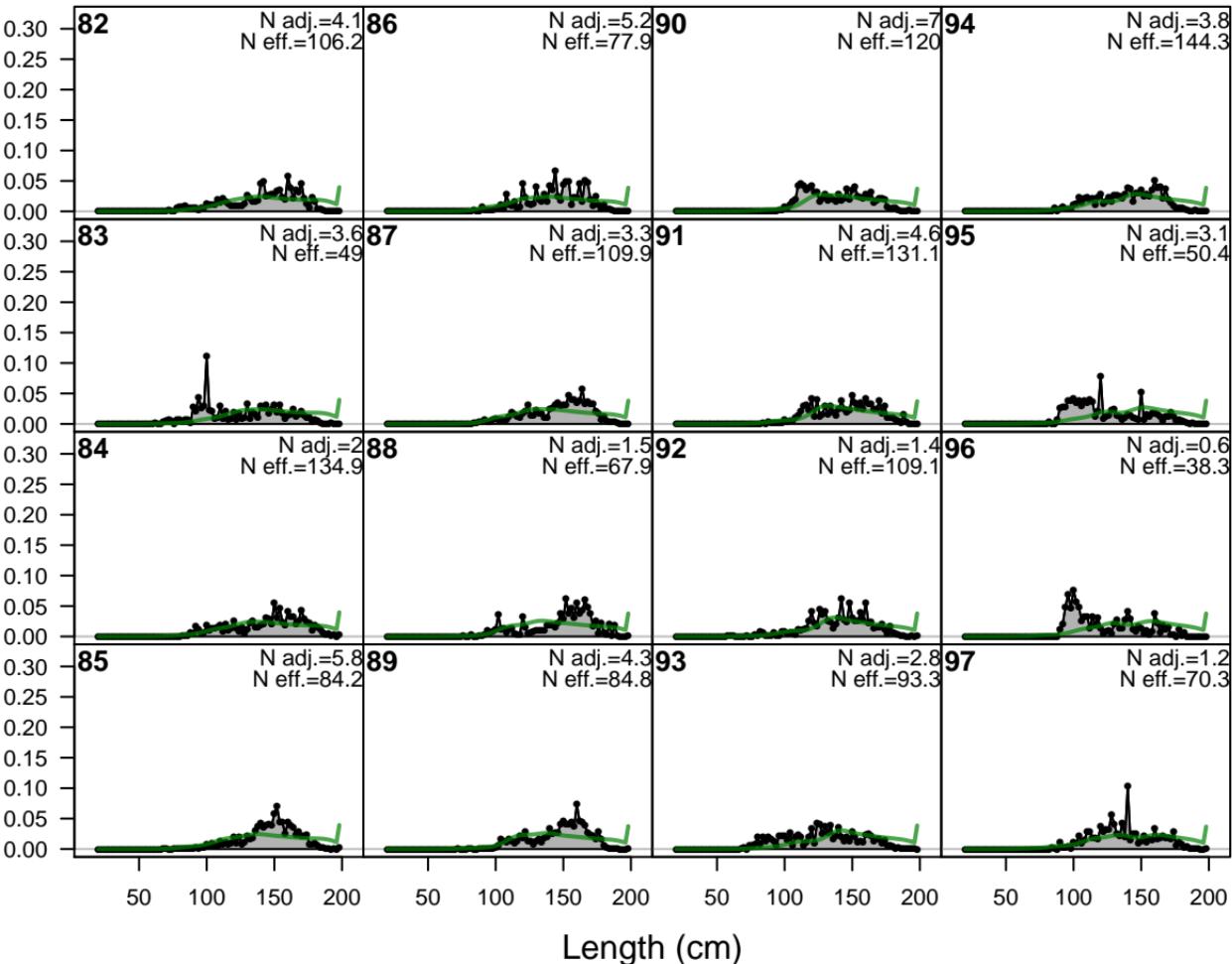
Proportion



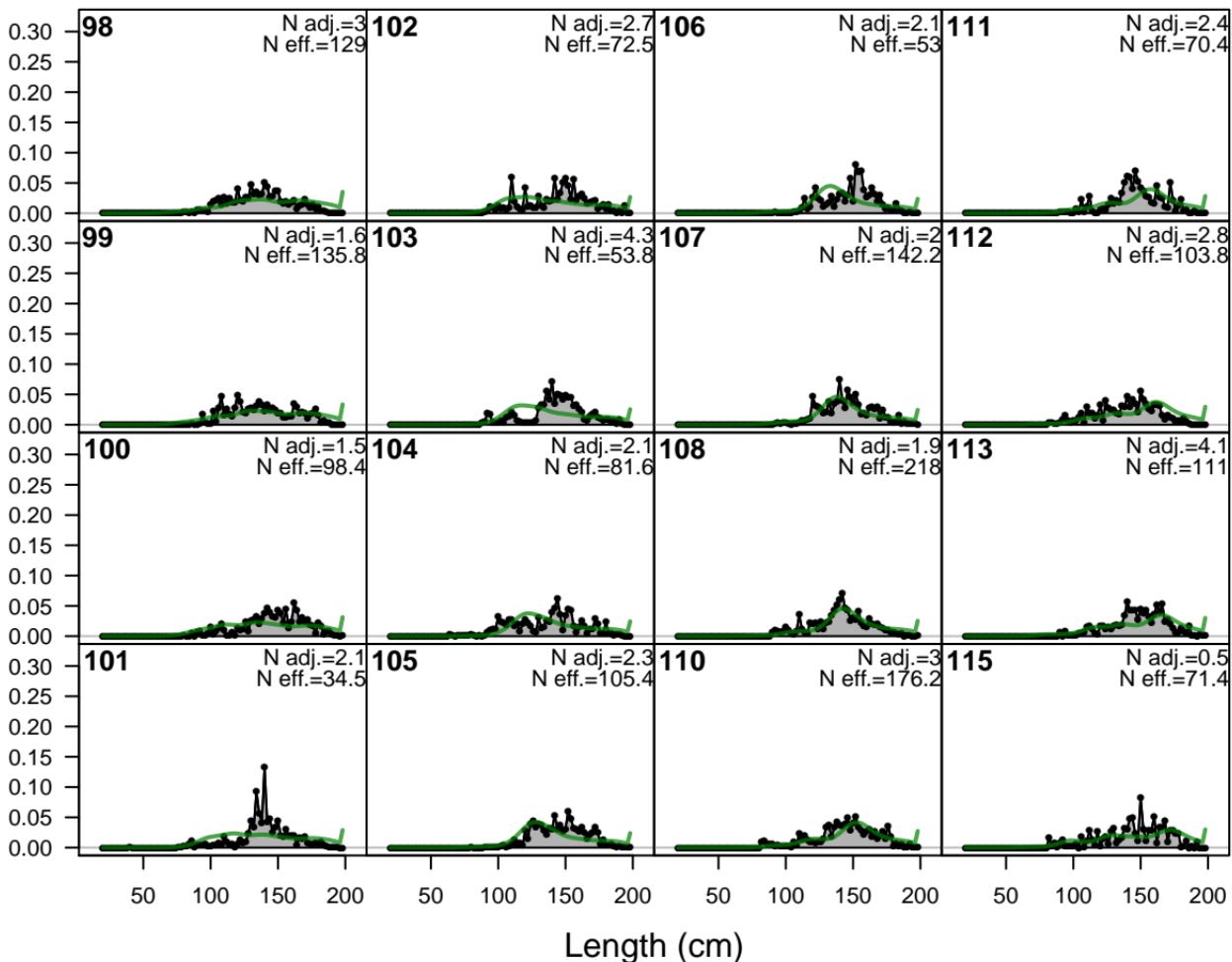
Proportion



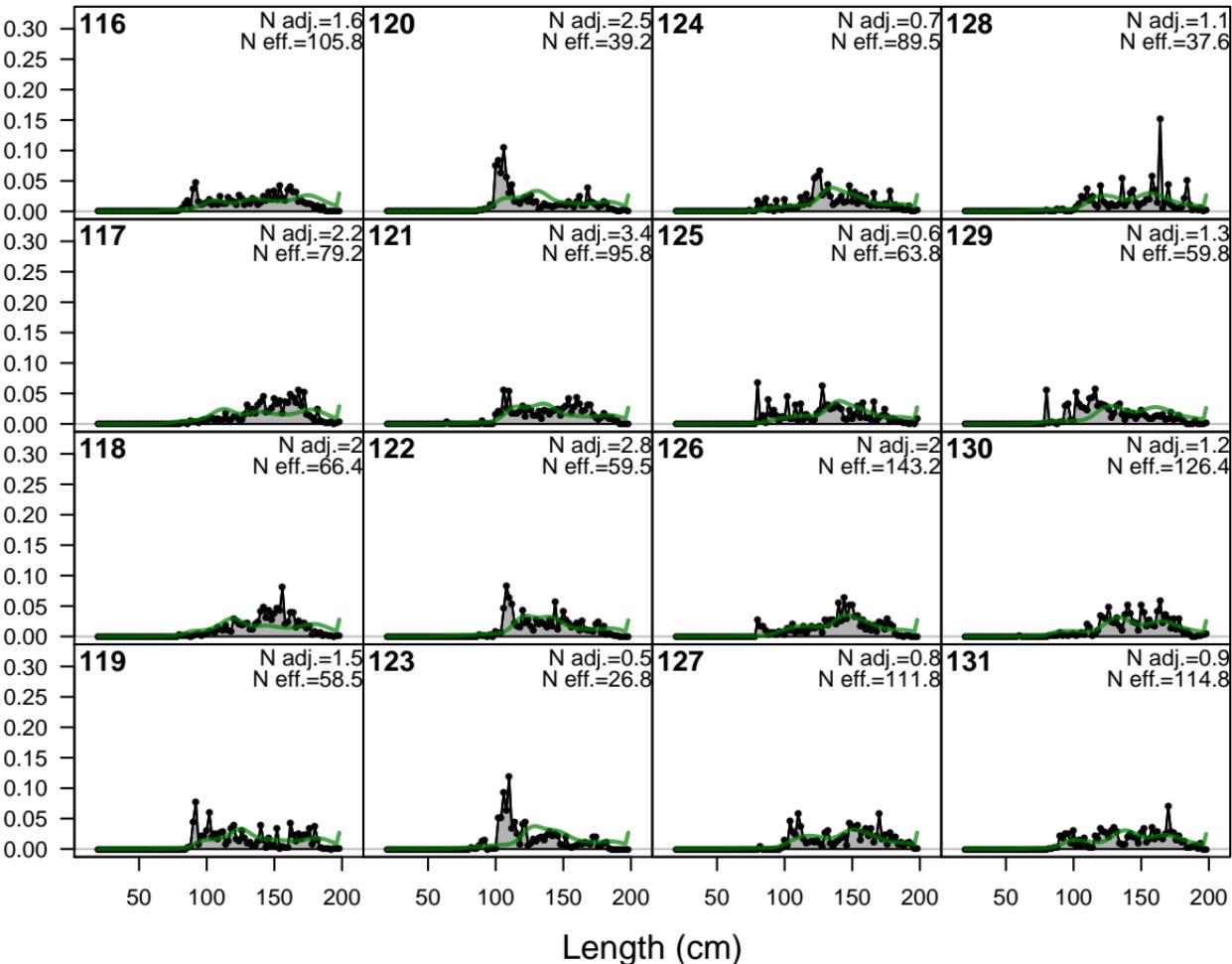
Proportion



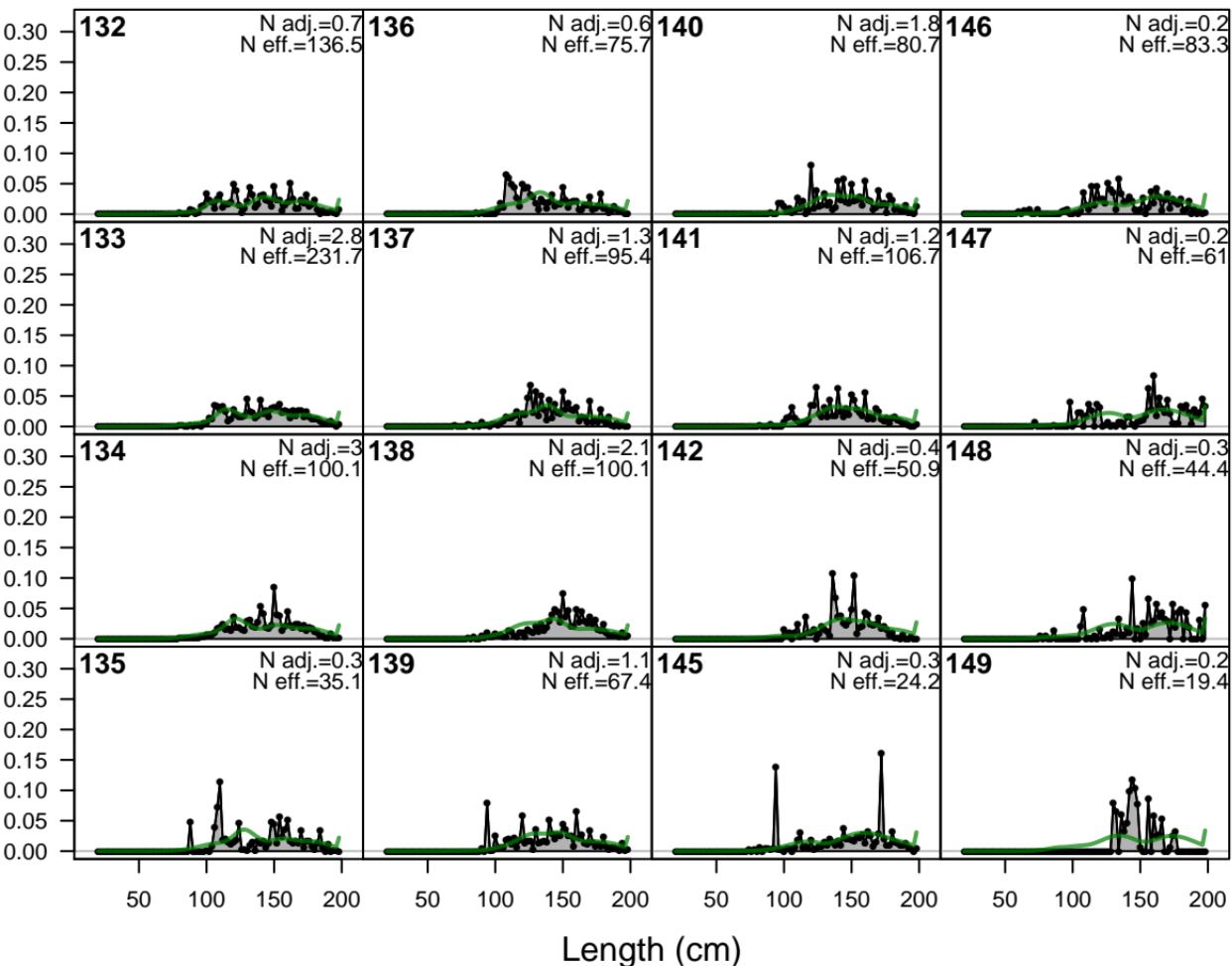
Proportion



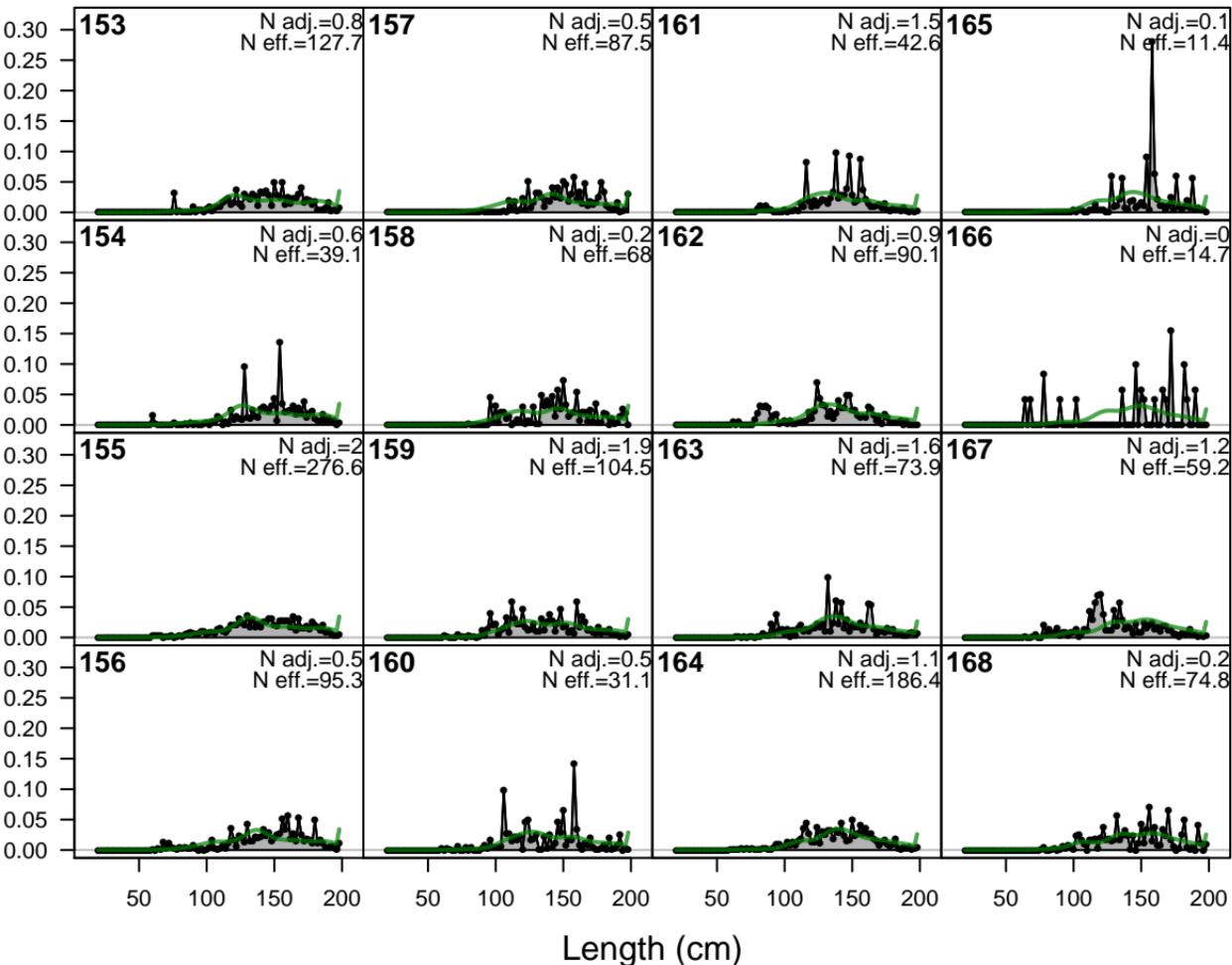
Proportion



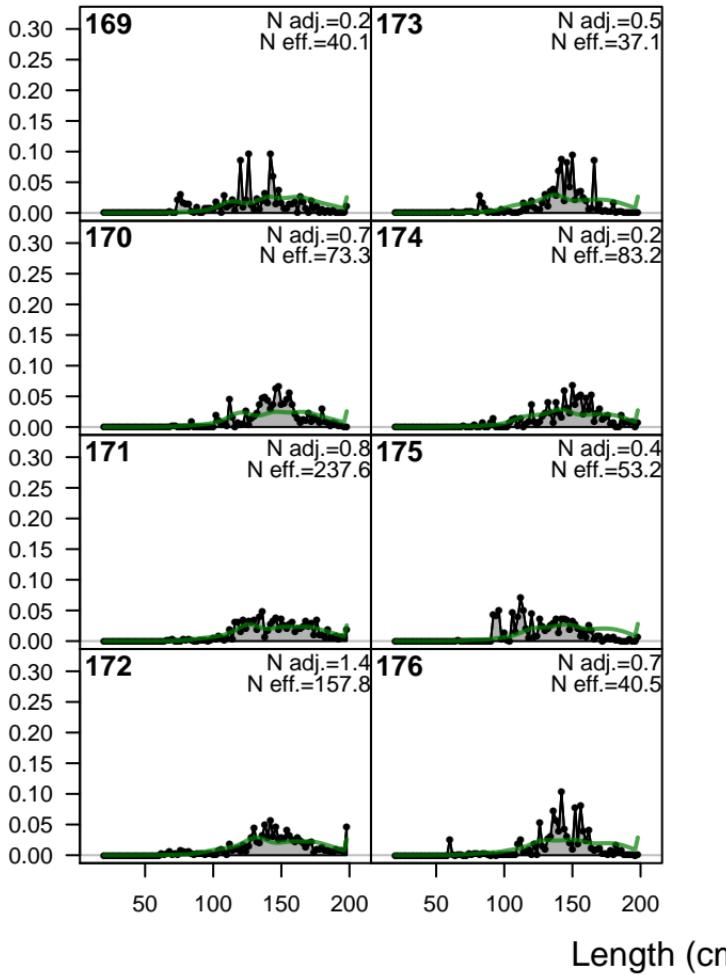
Proportion

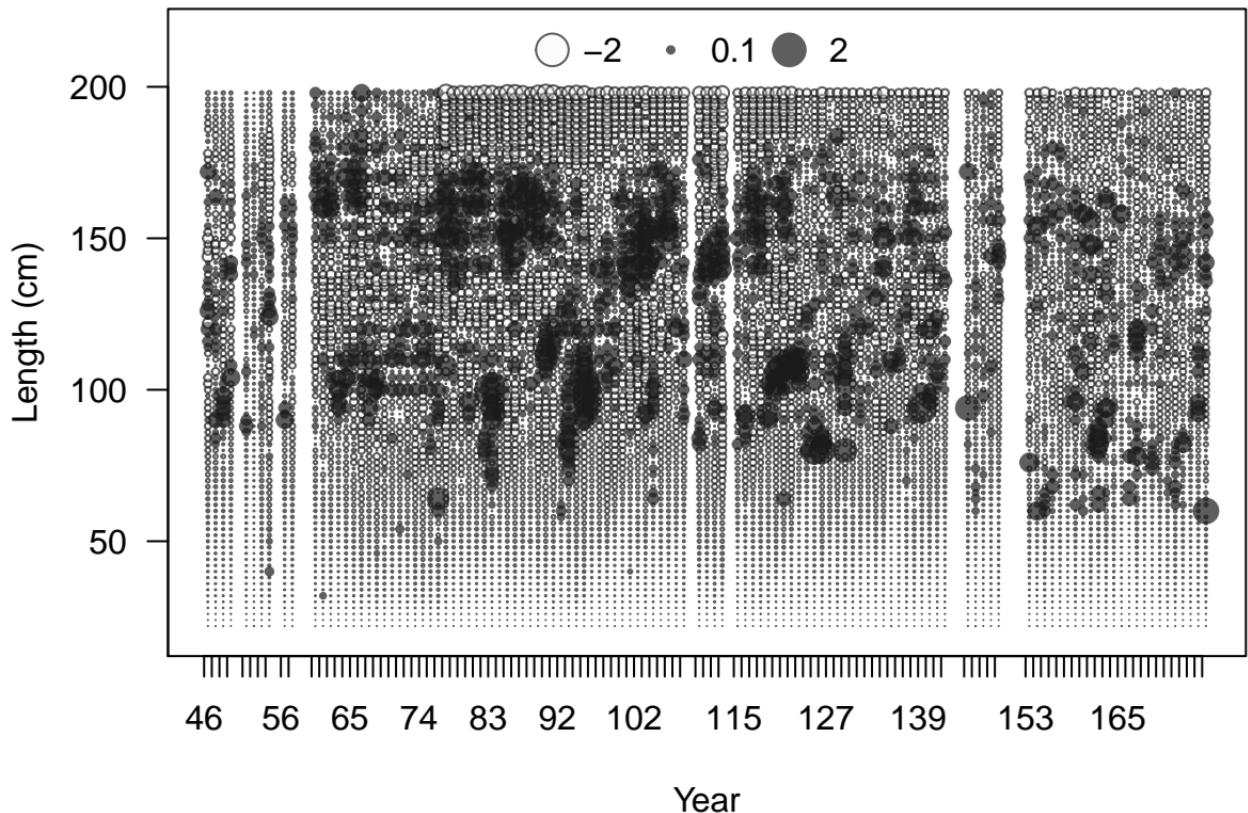


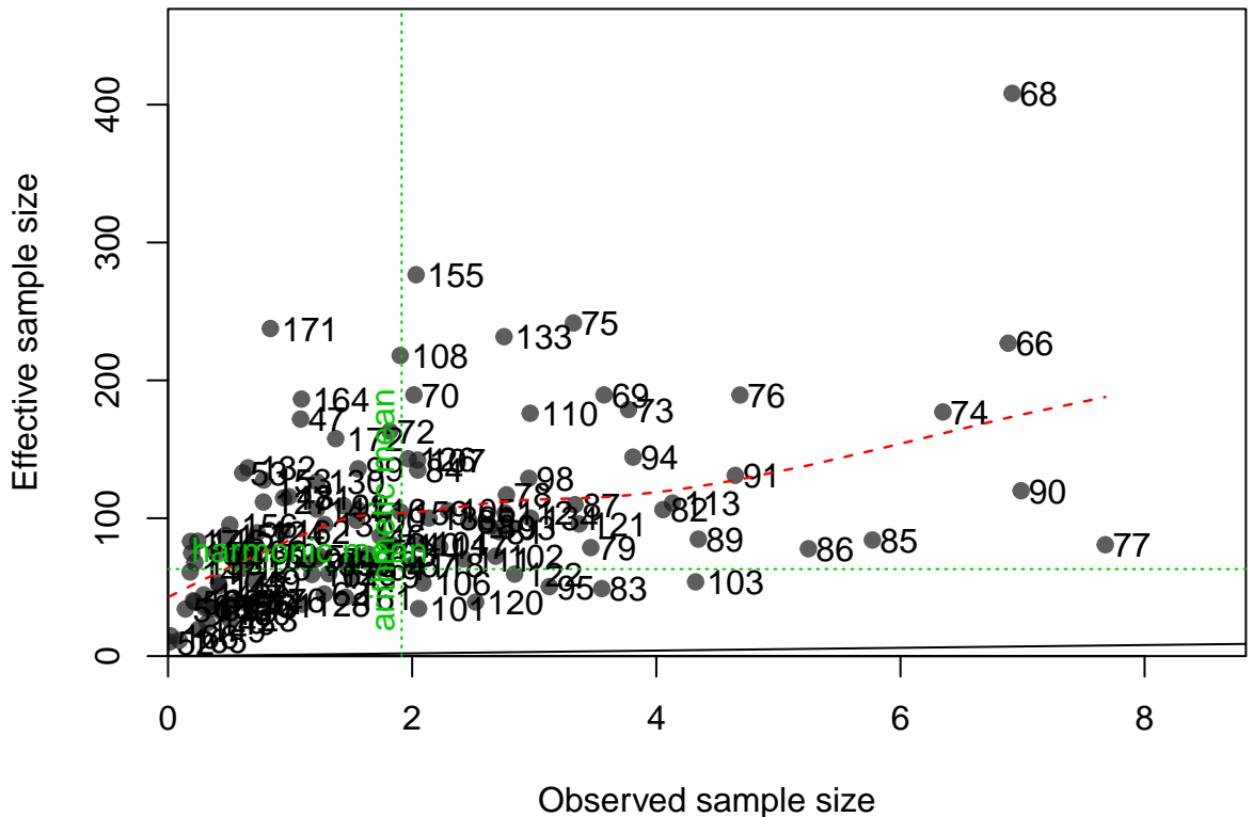
Proportion



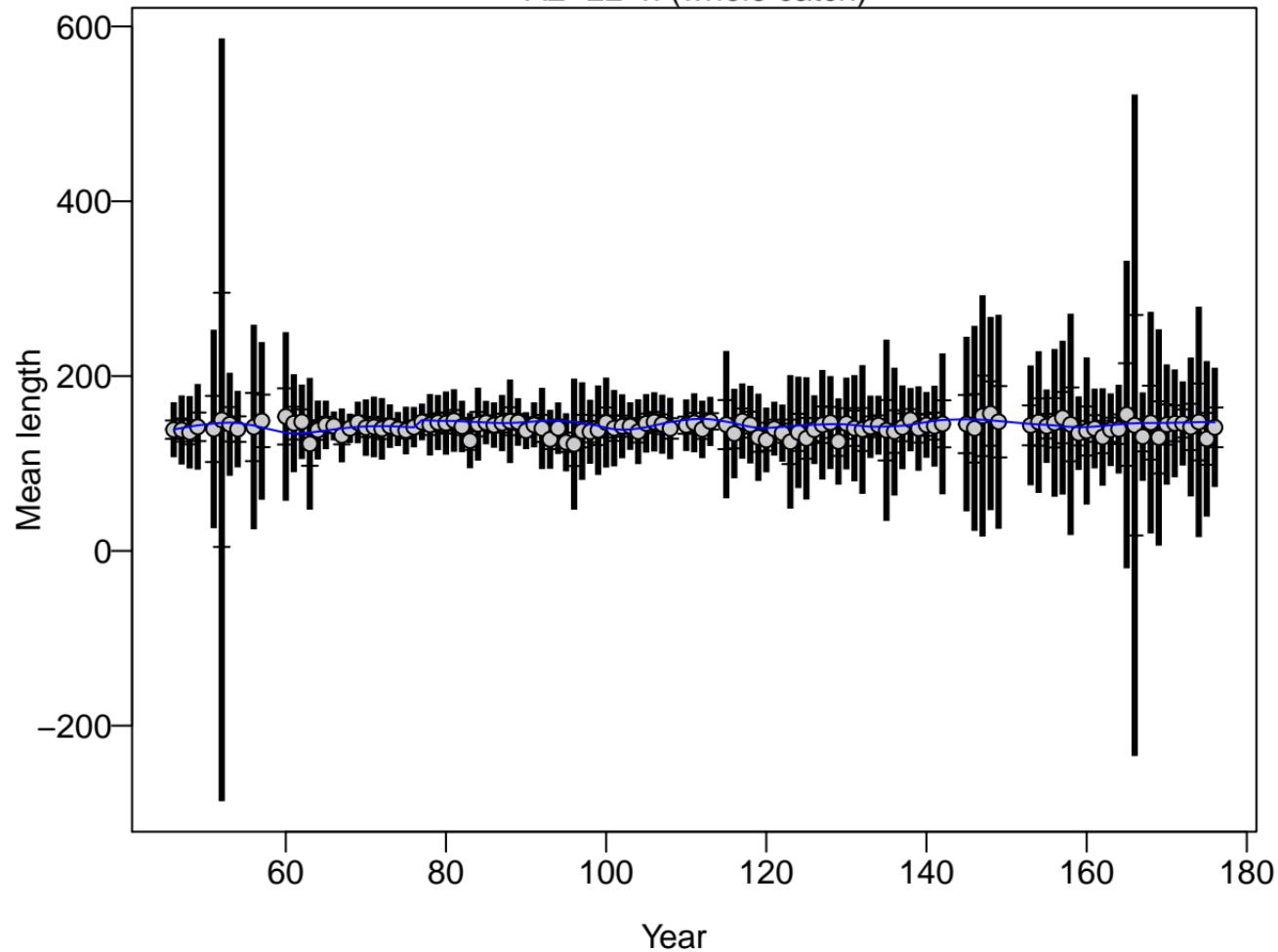
Proportion



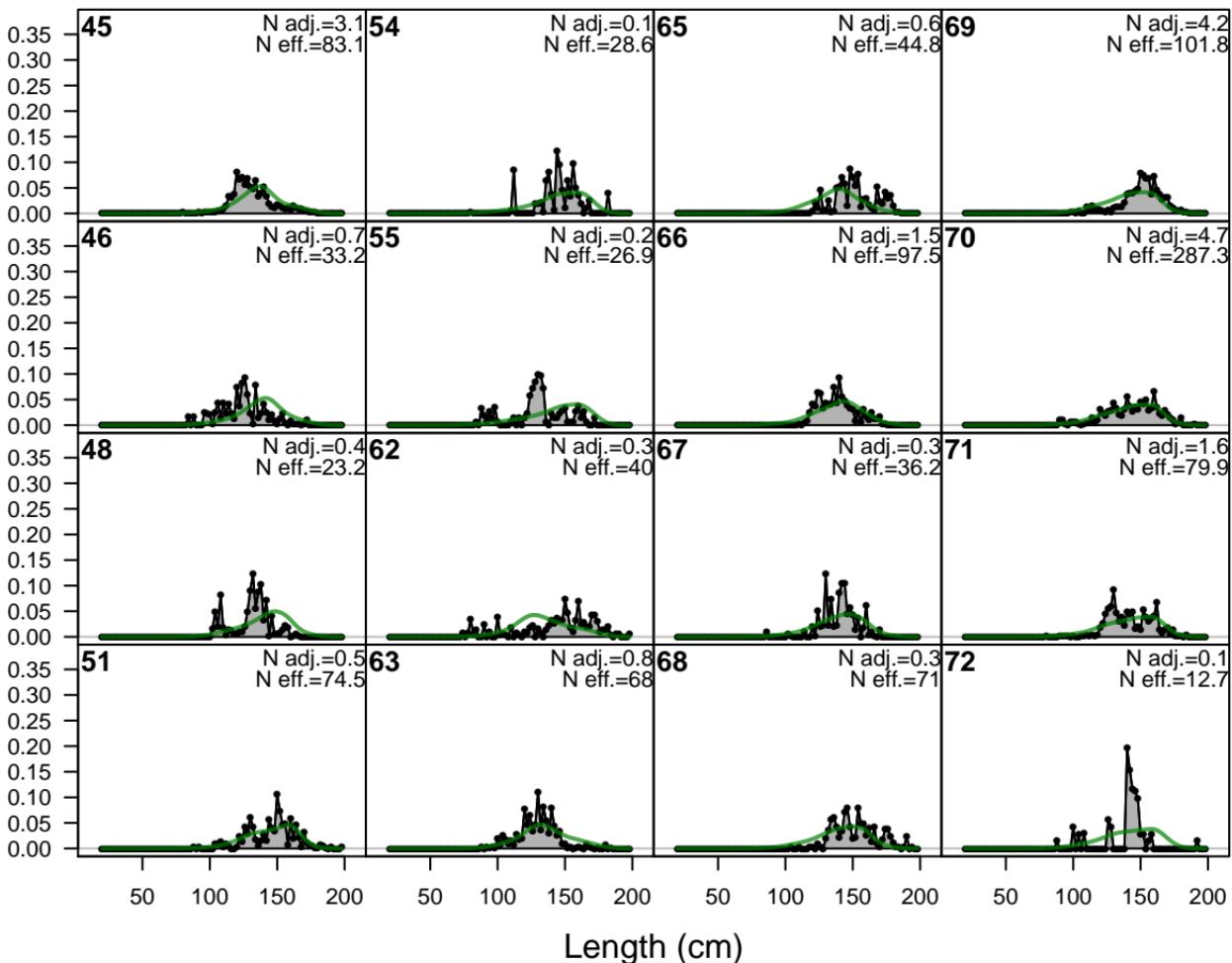




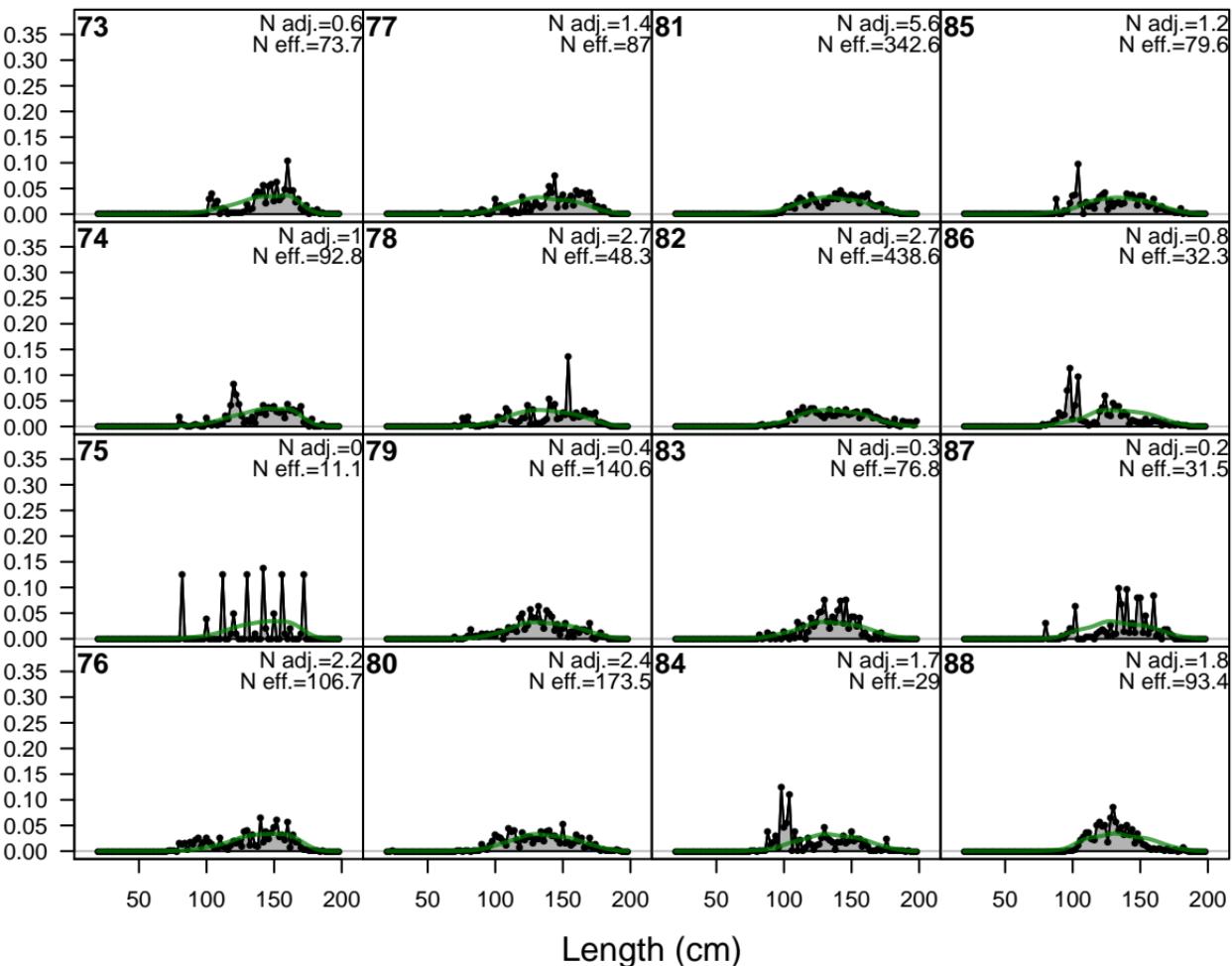
### A2-LL-n (whole catch)



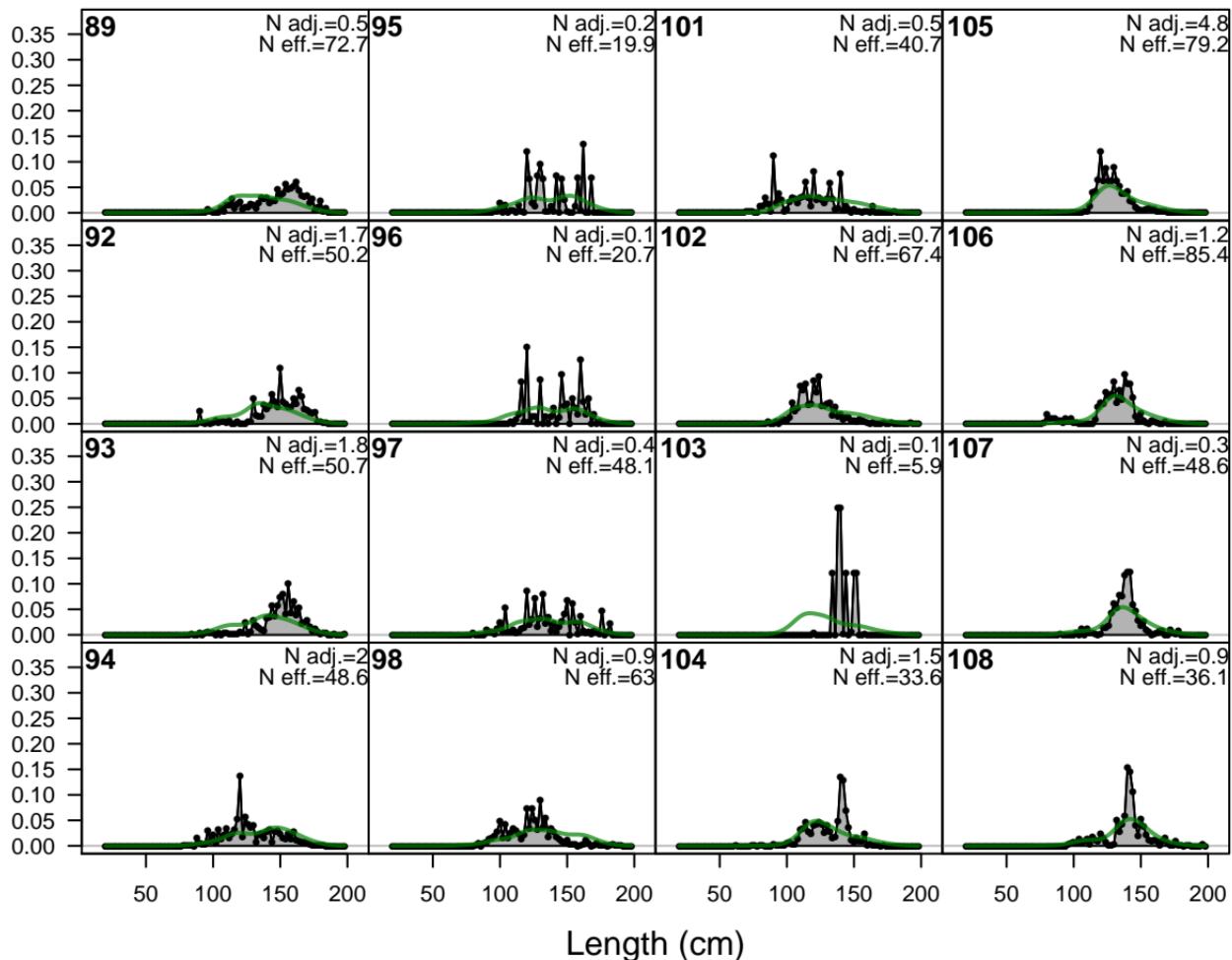
Proportion



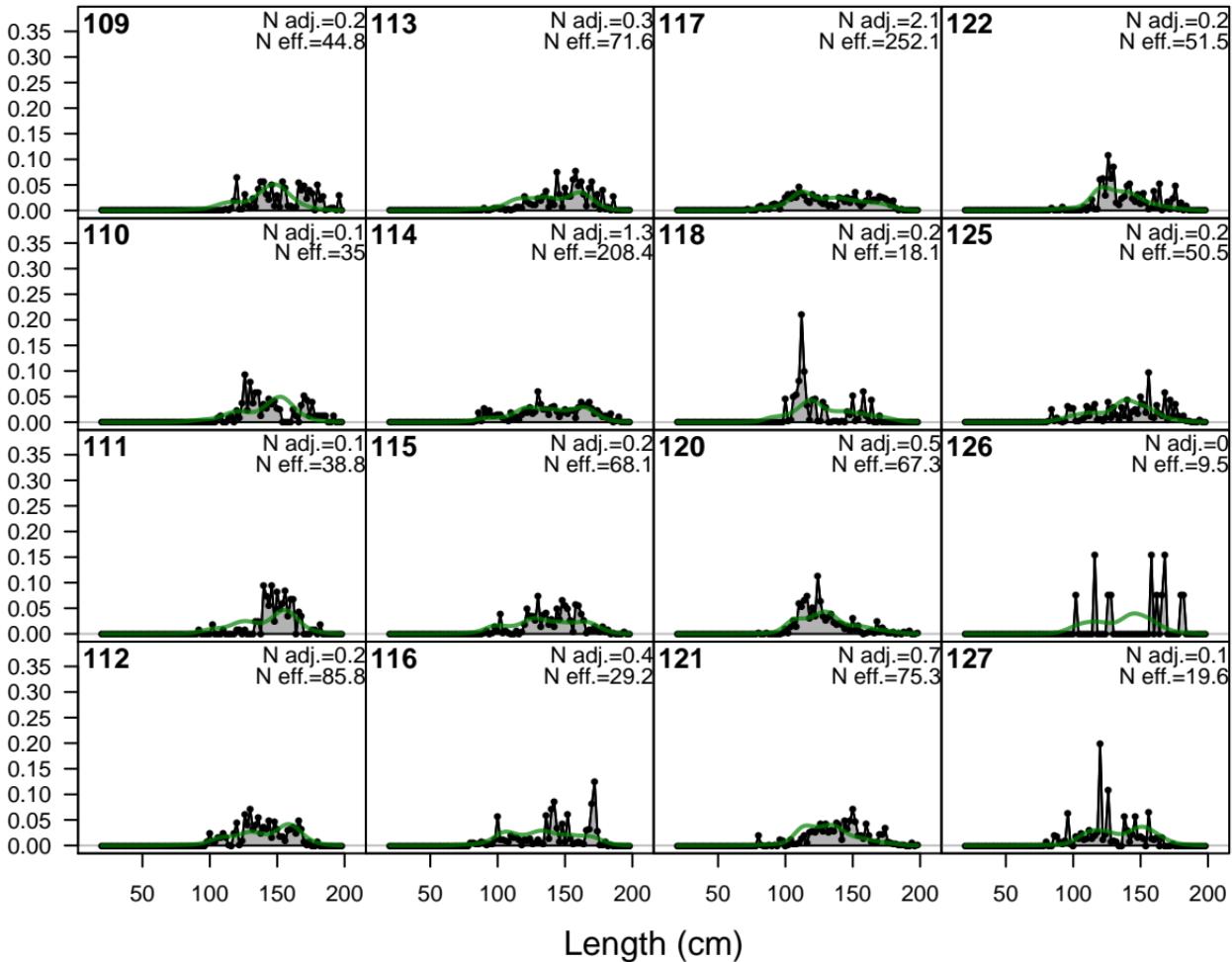
Proportion



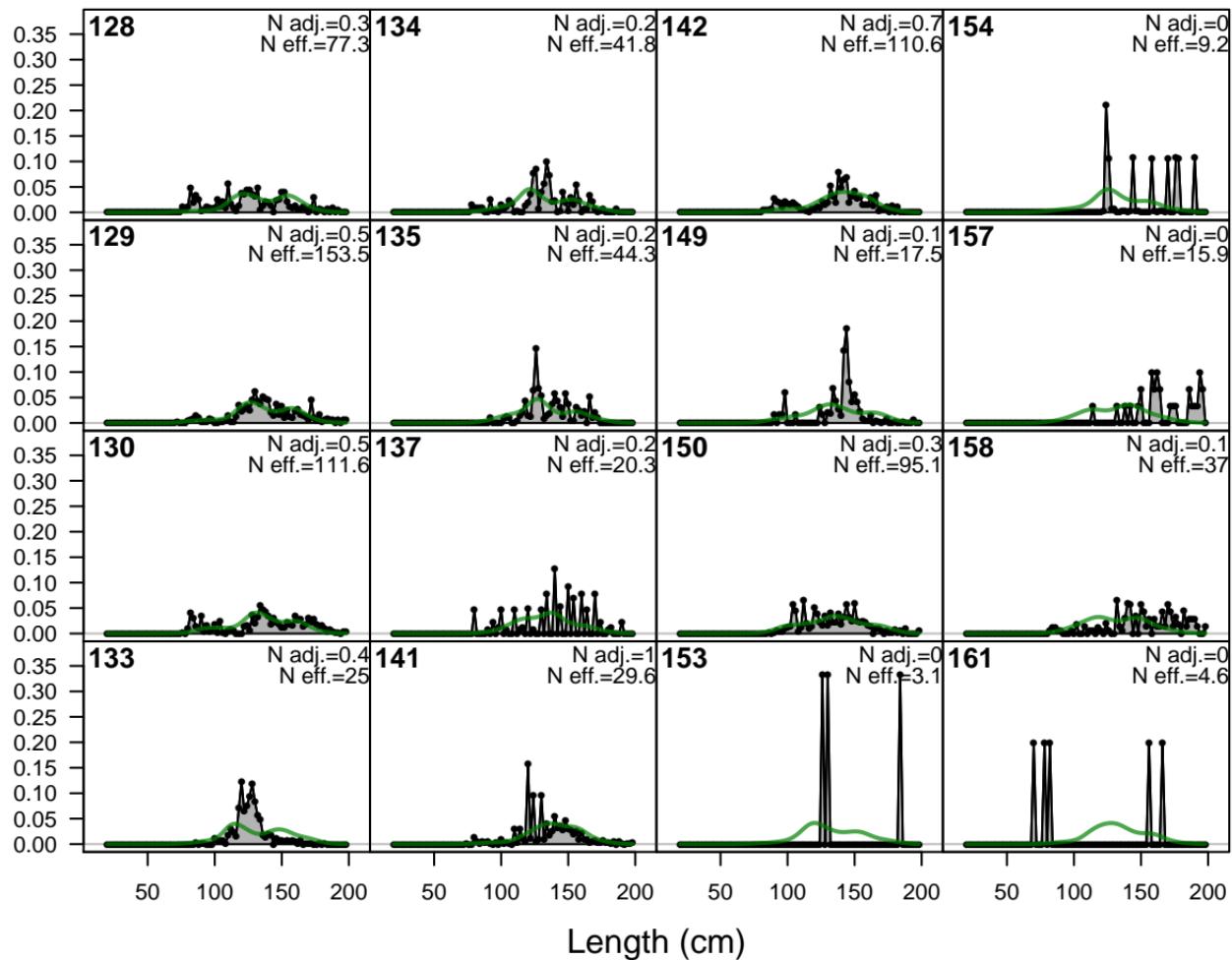
Proportion



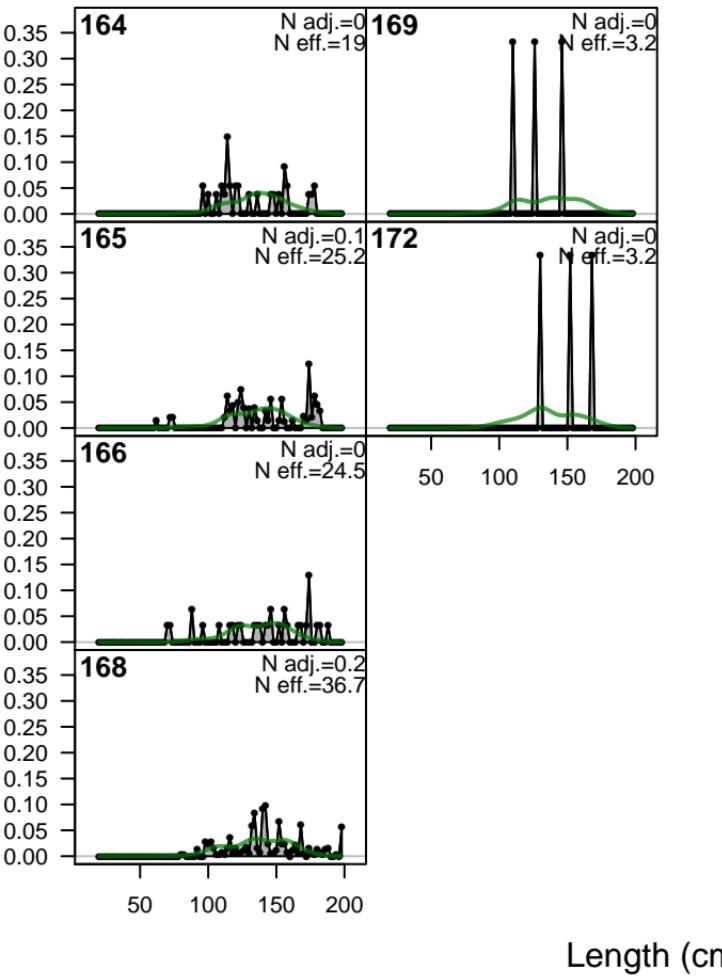
Proportion

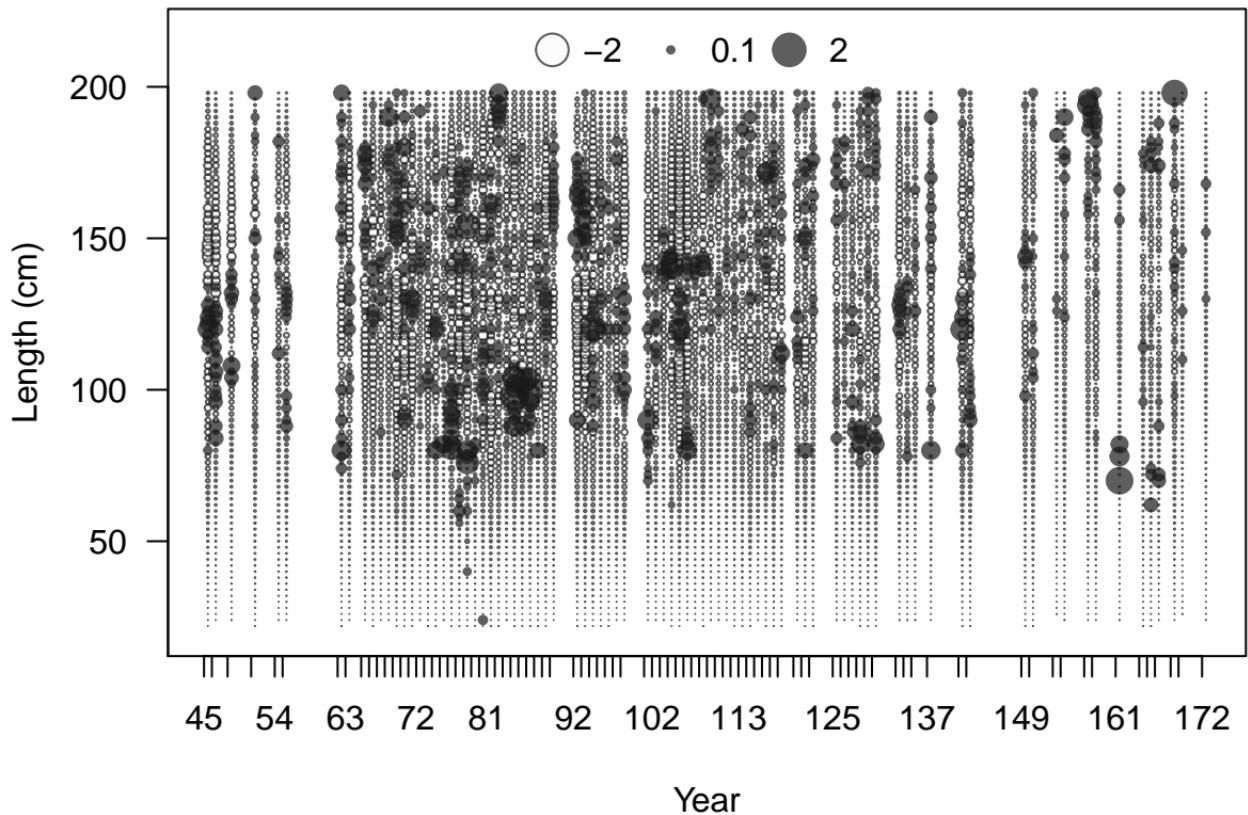


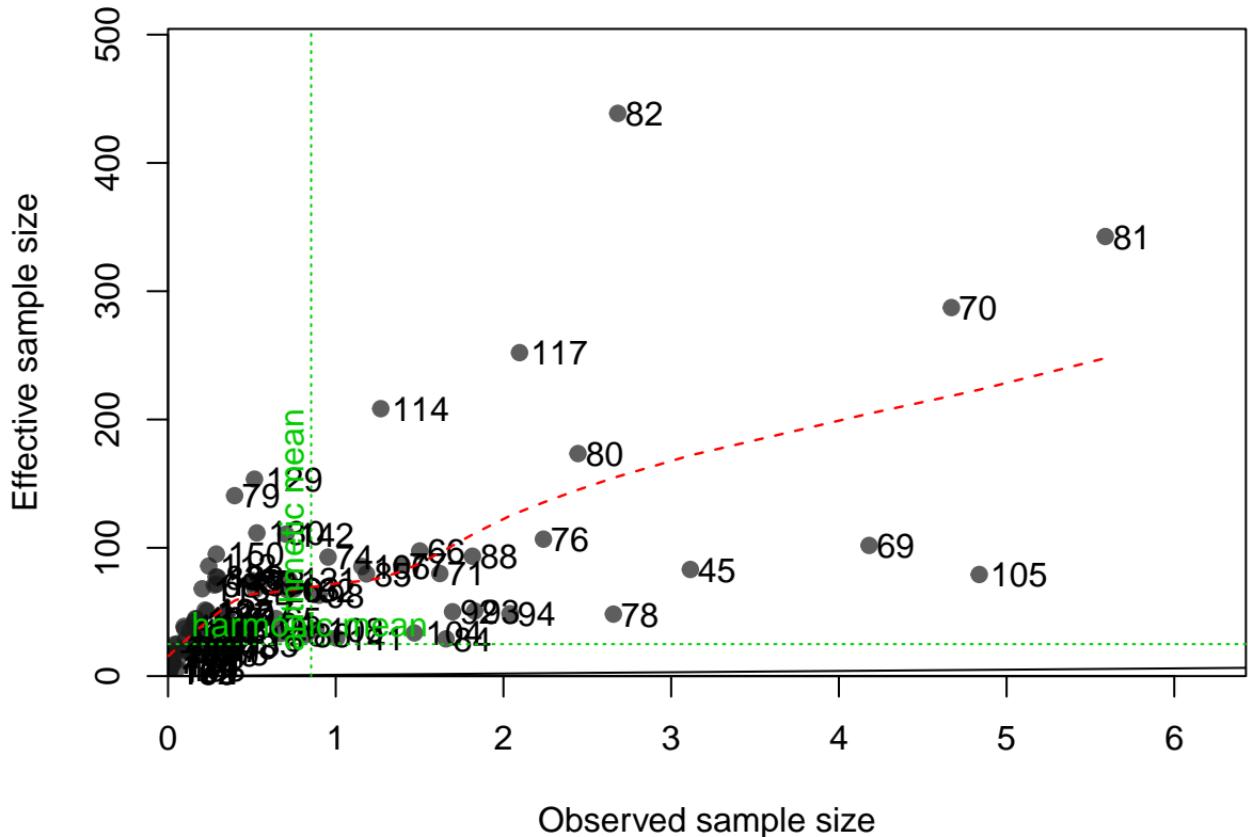
Proportion



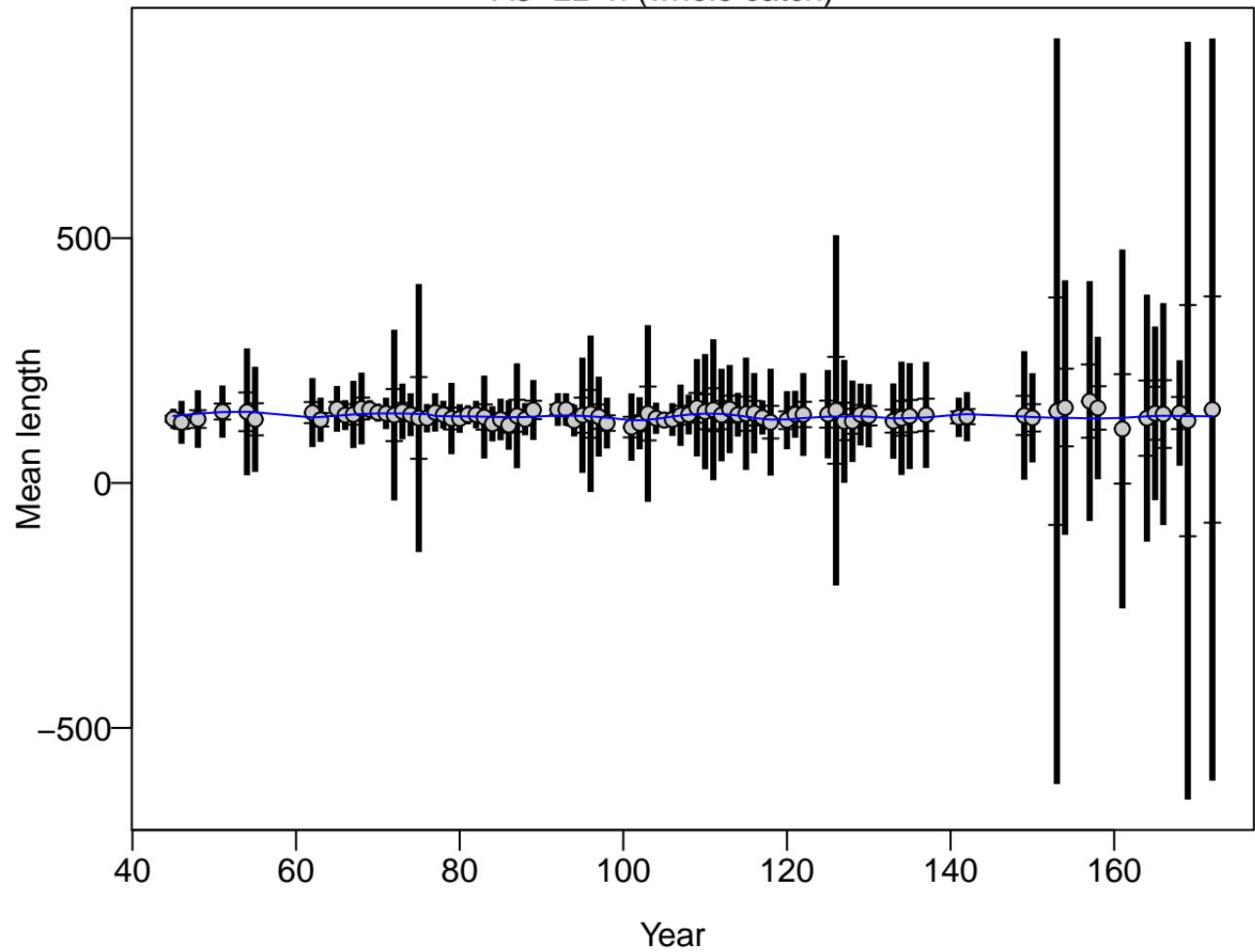
Proportion



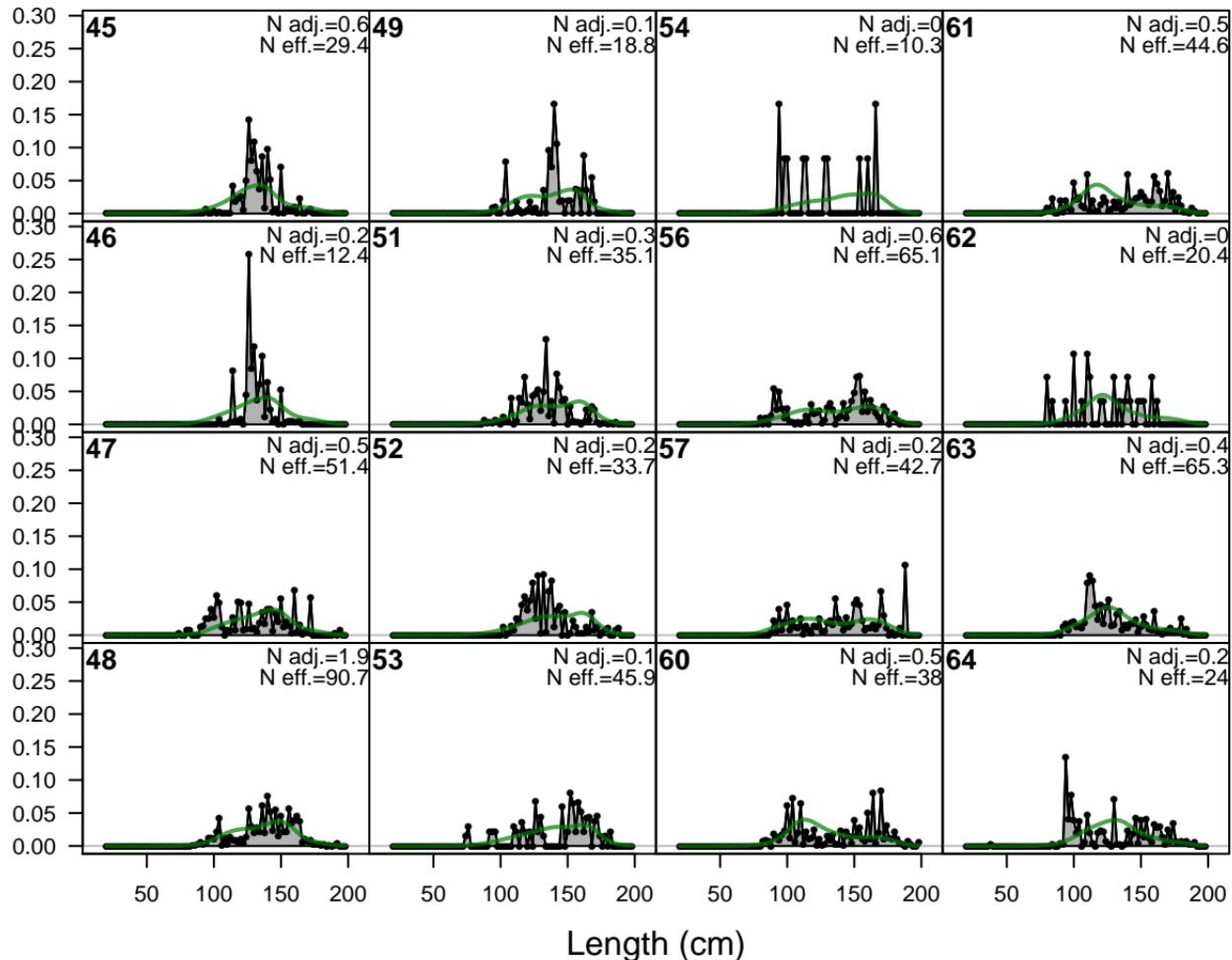




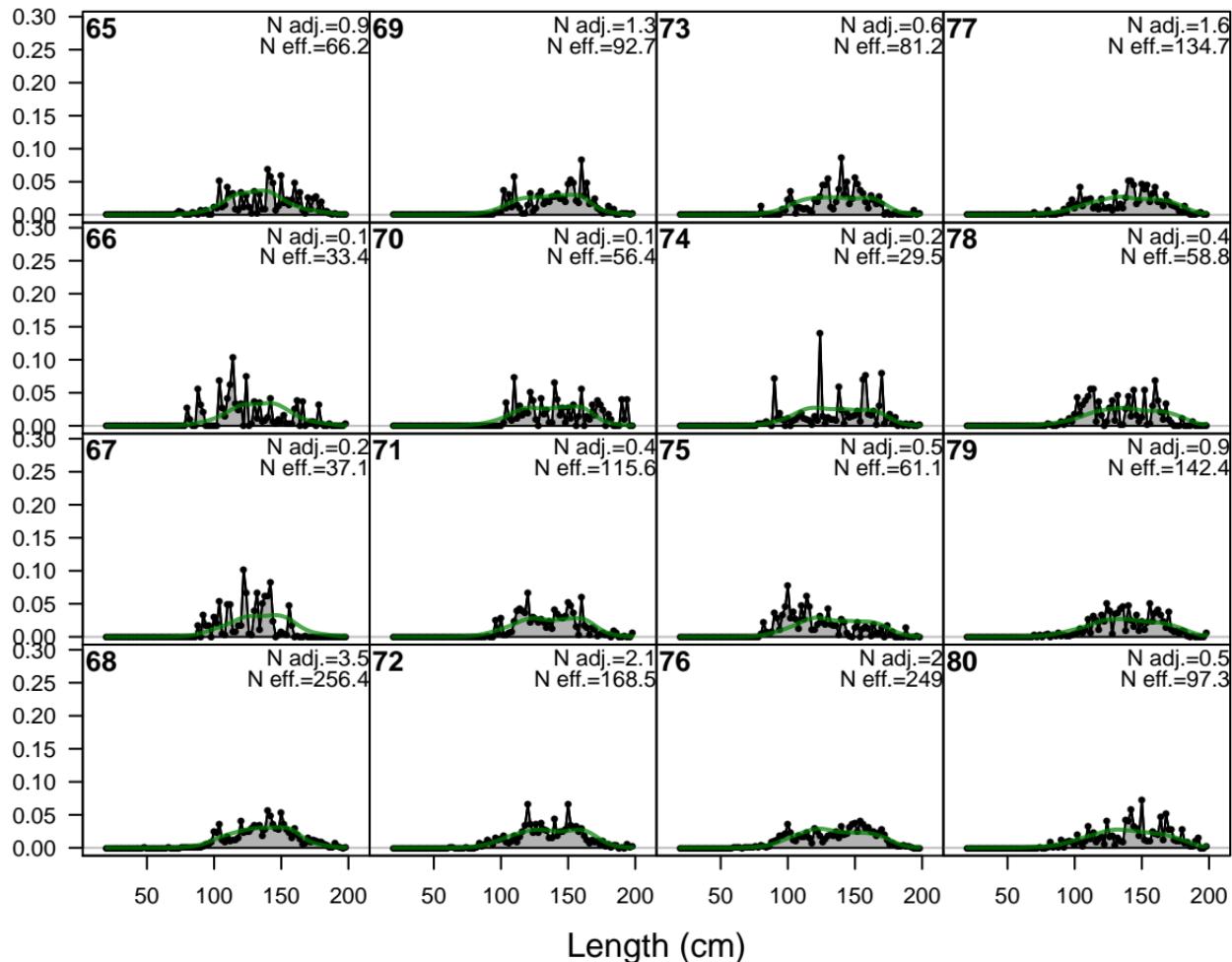
### A3-LL-n (whole catch)



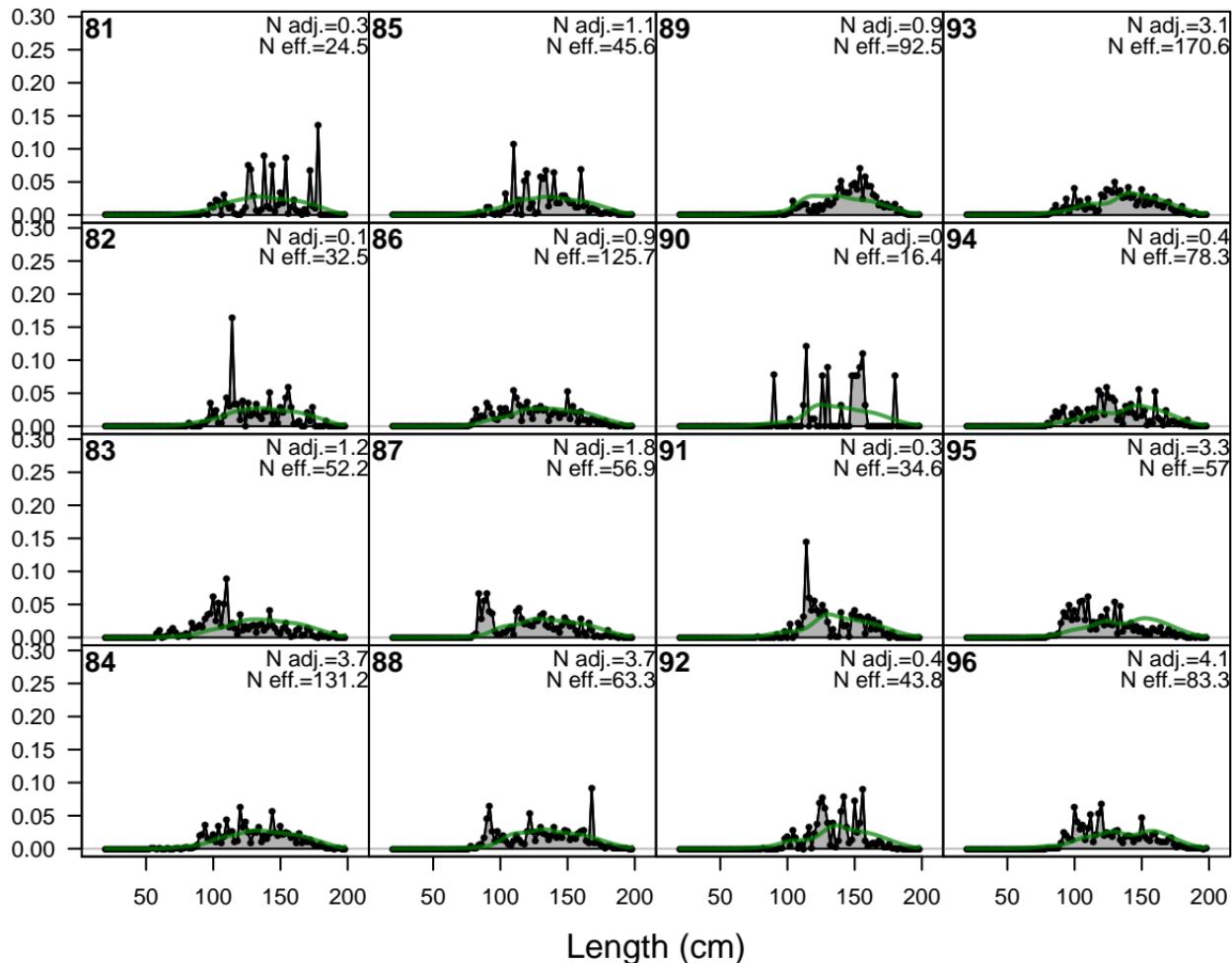
Proportion



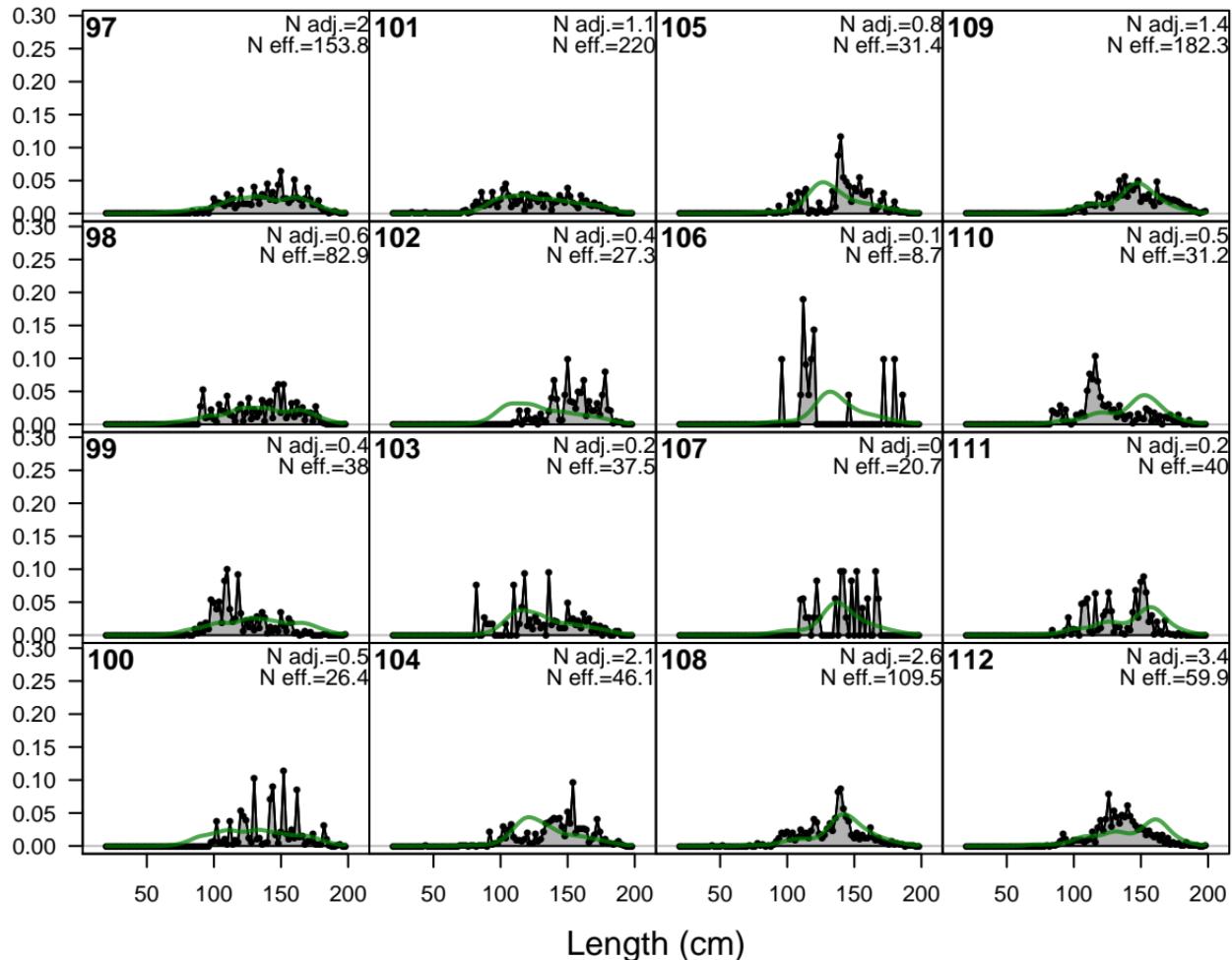
Proportion



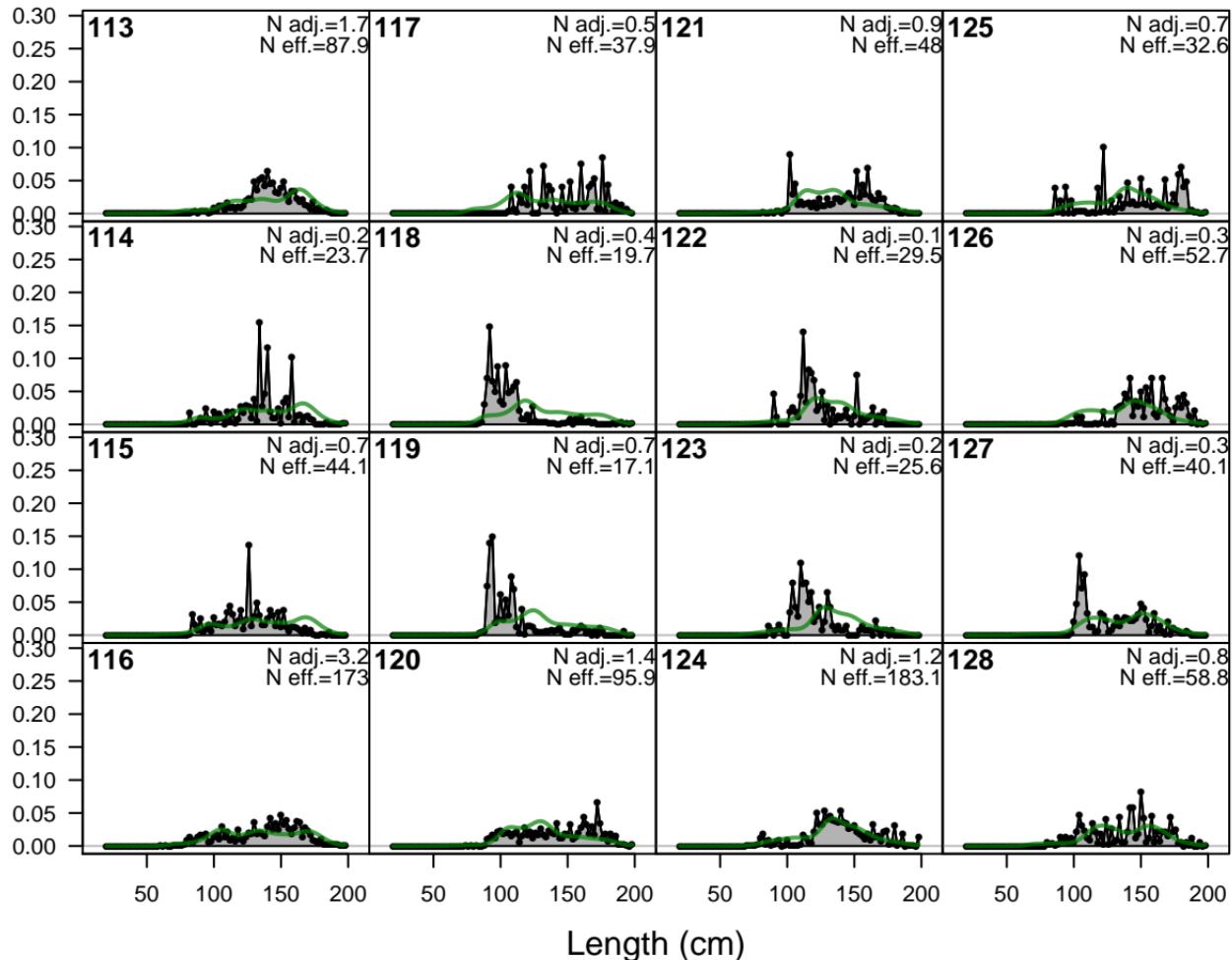
Proportion



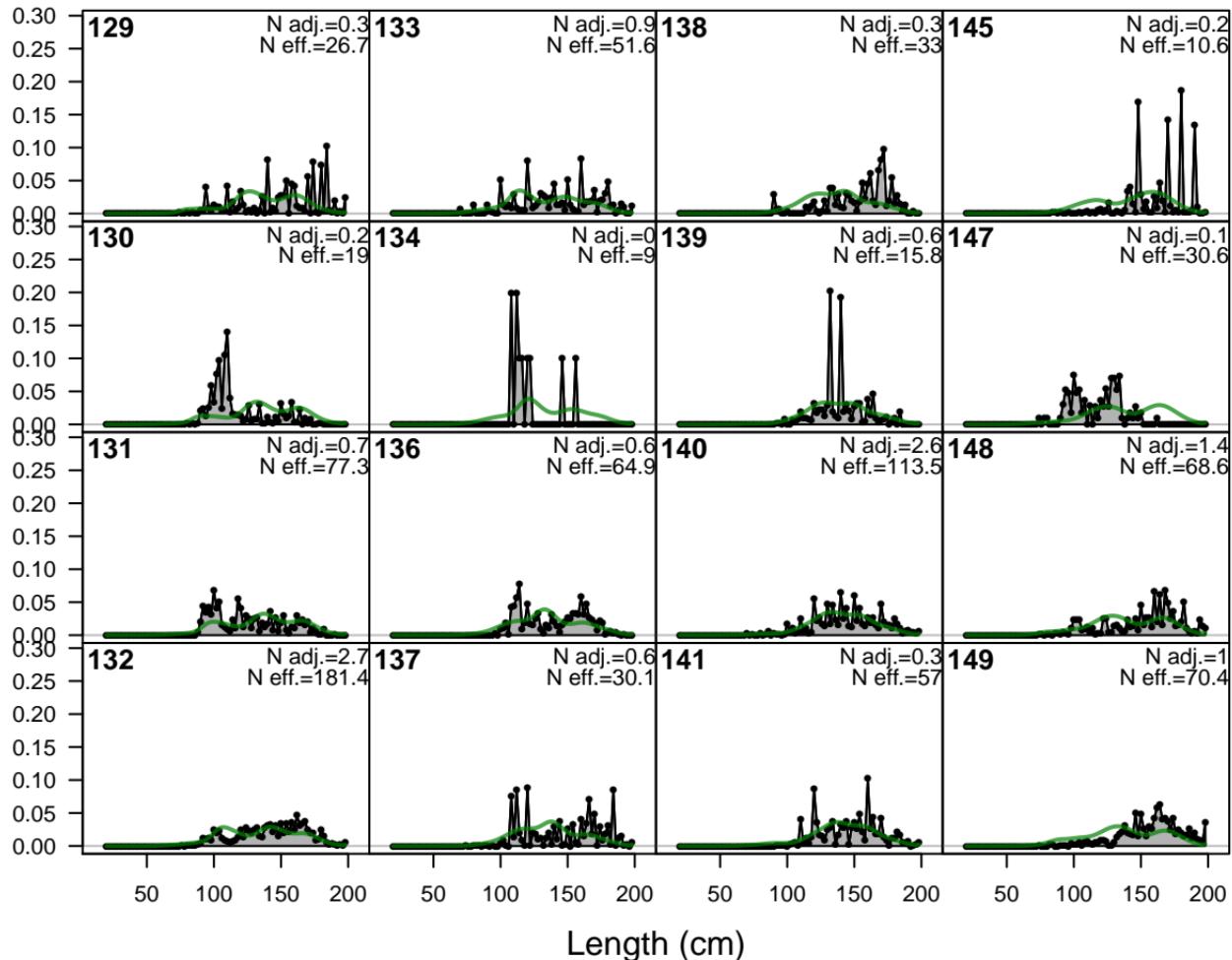
Proportion

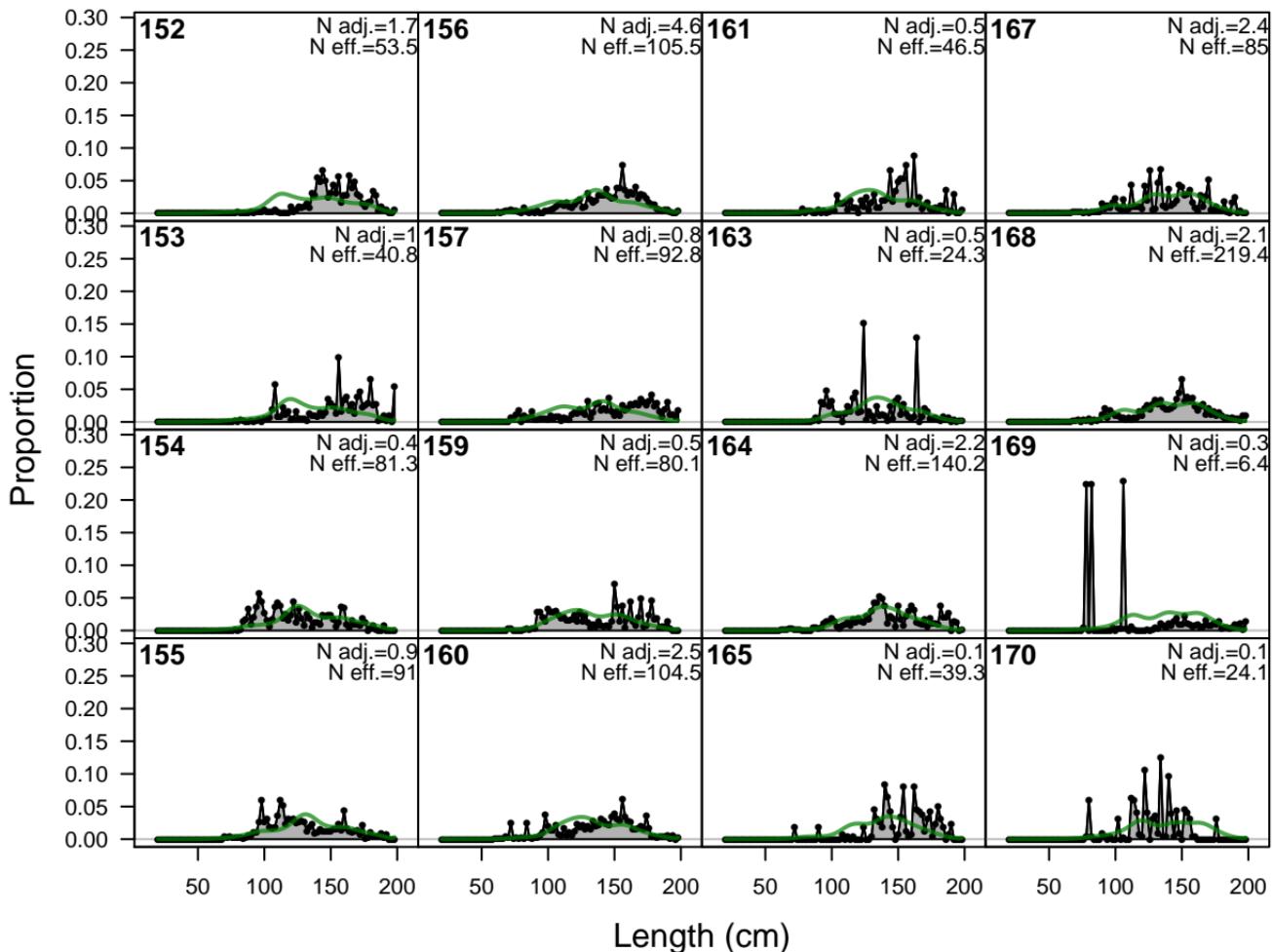


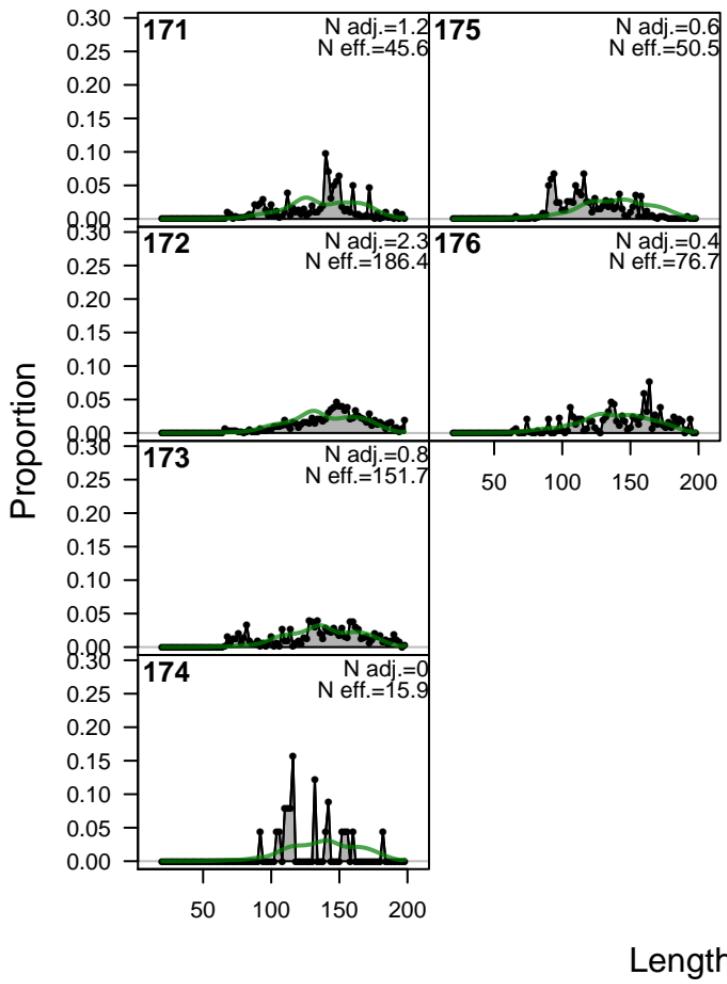
Proportion

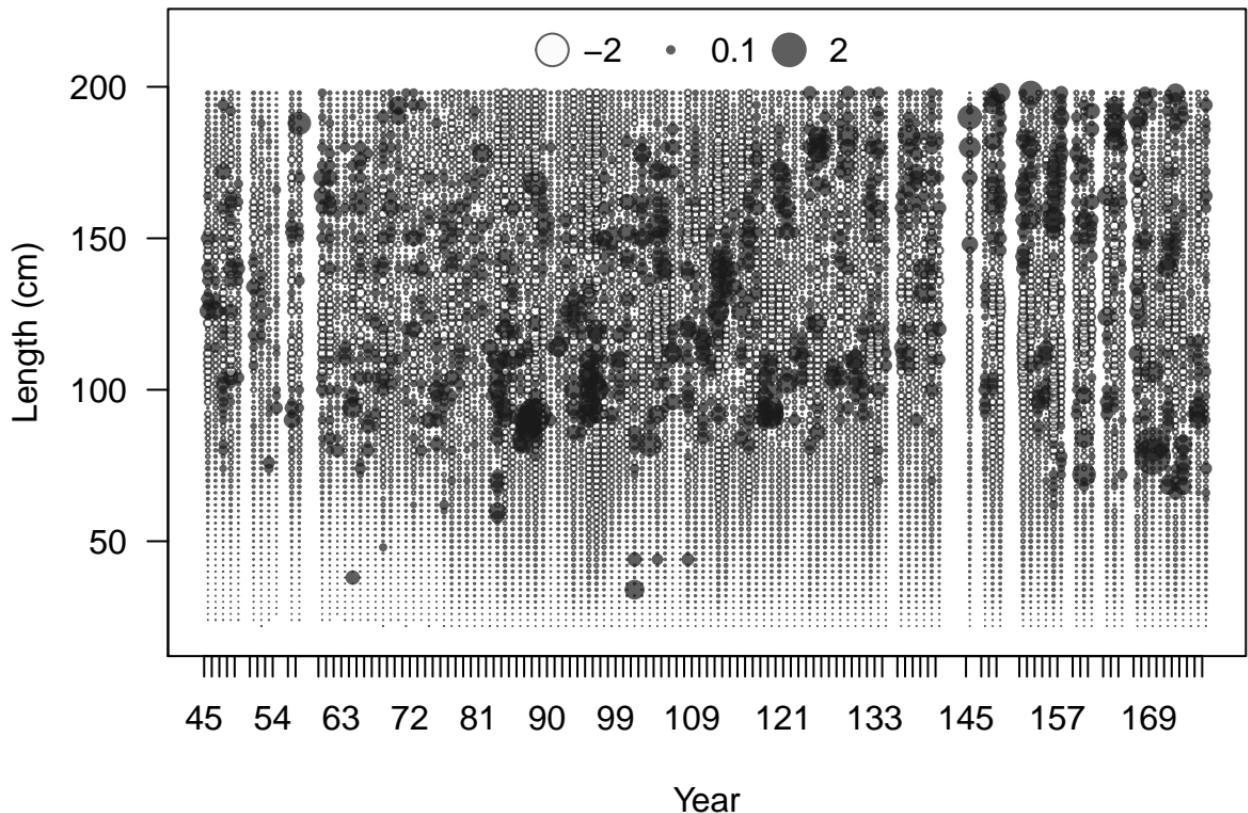


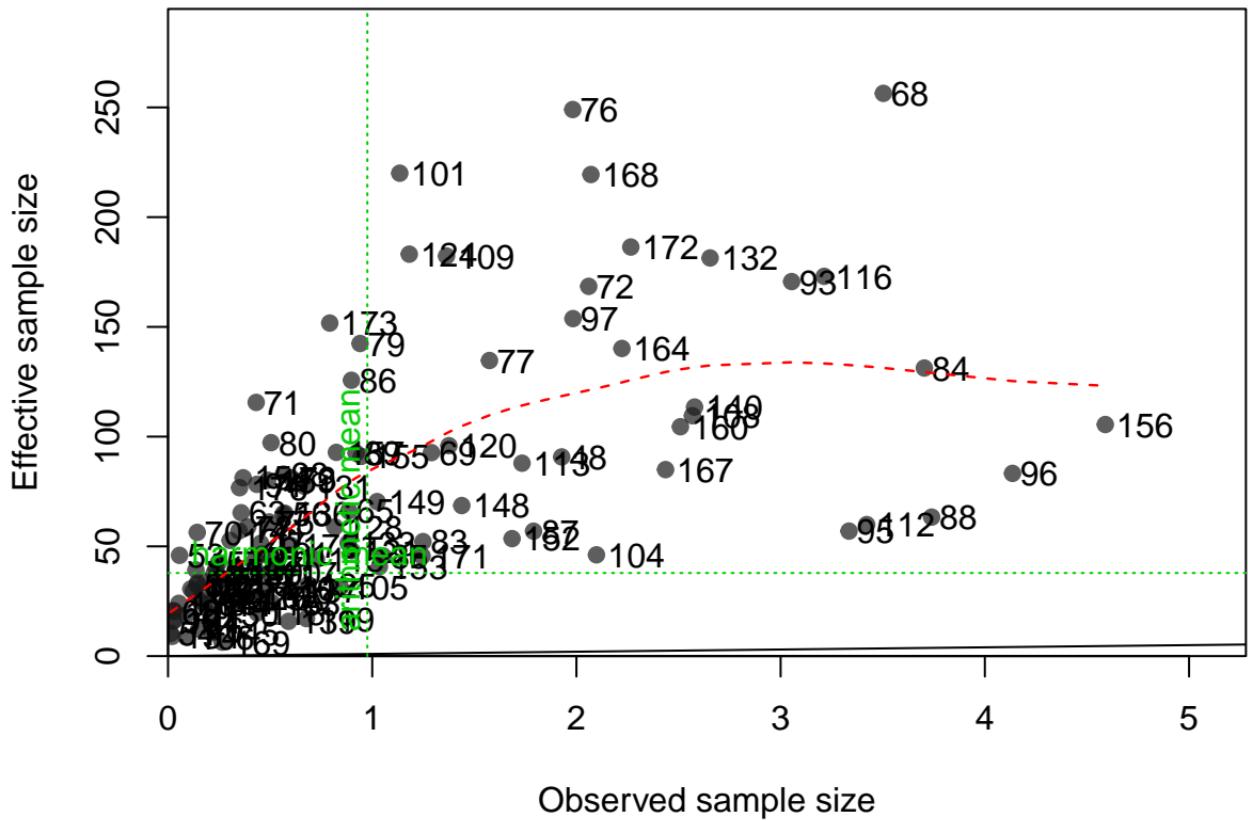
Proportion



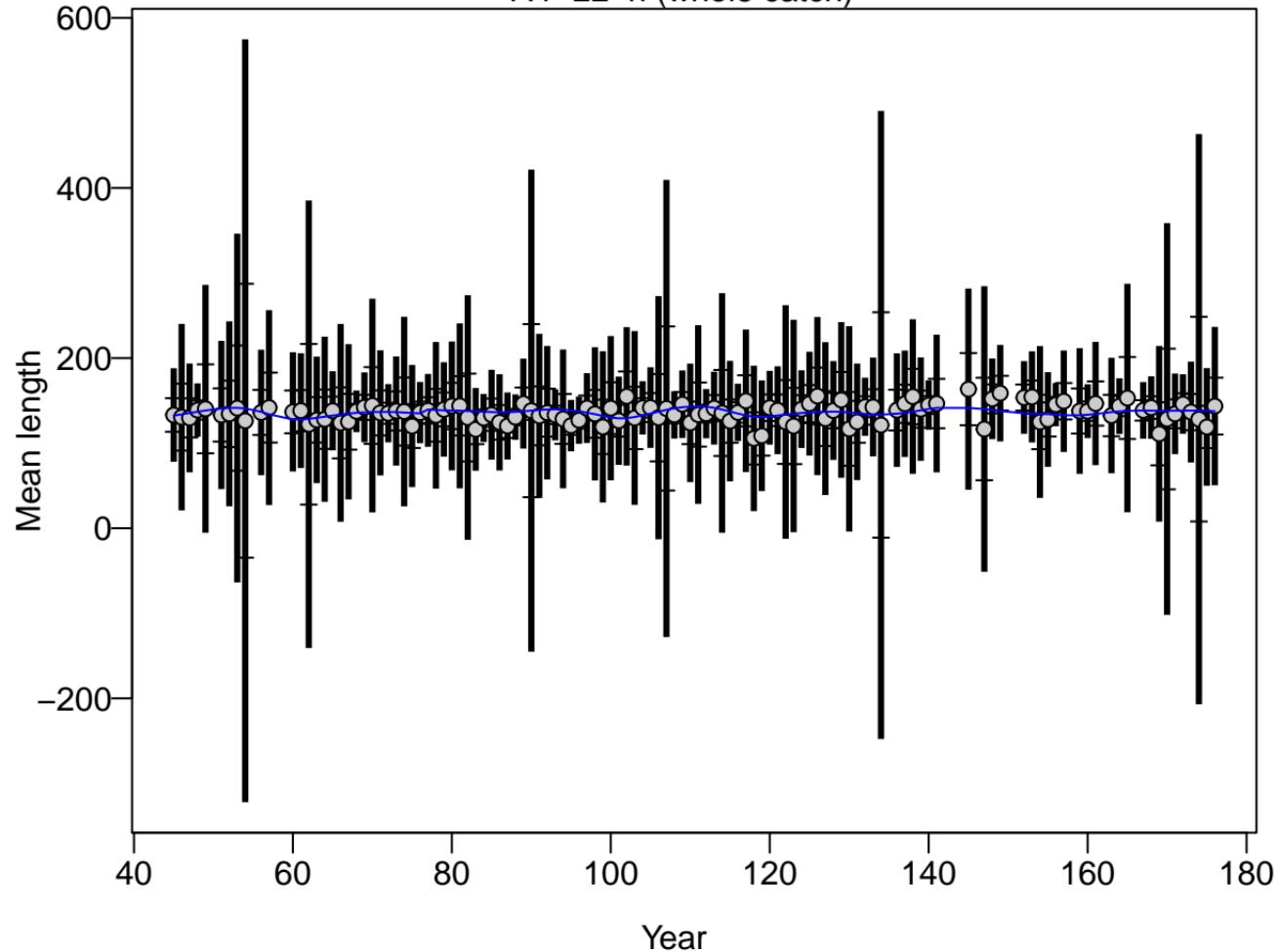




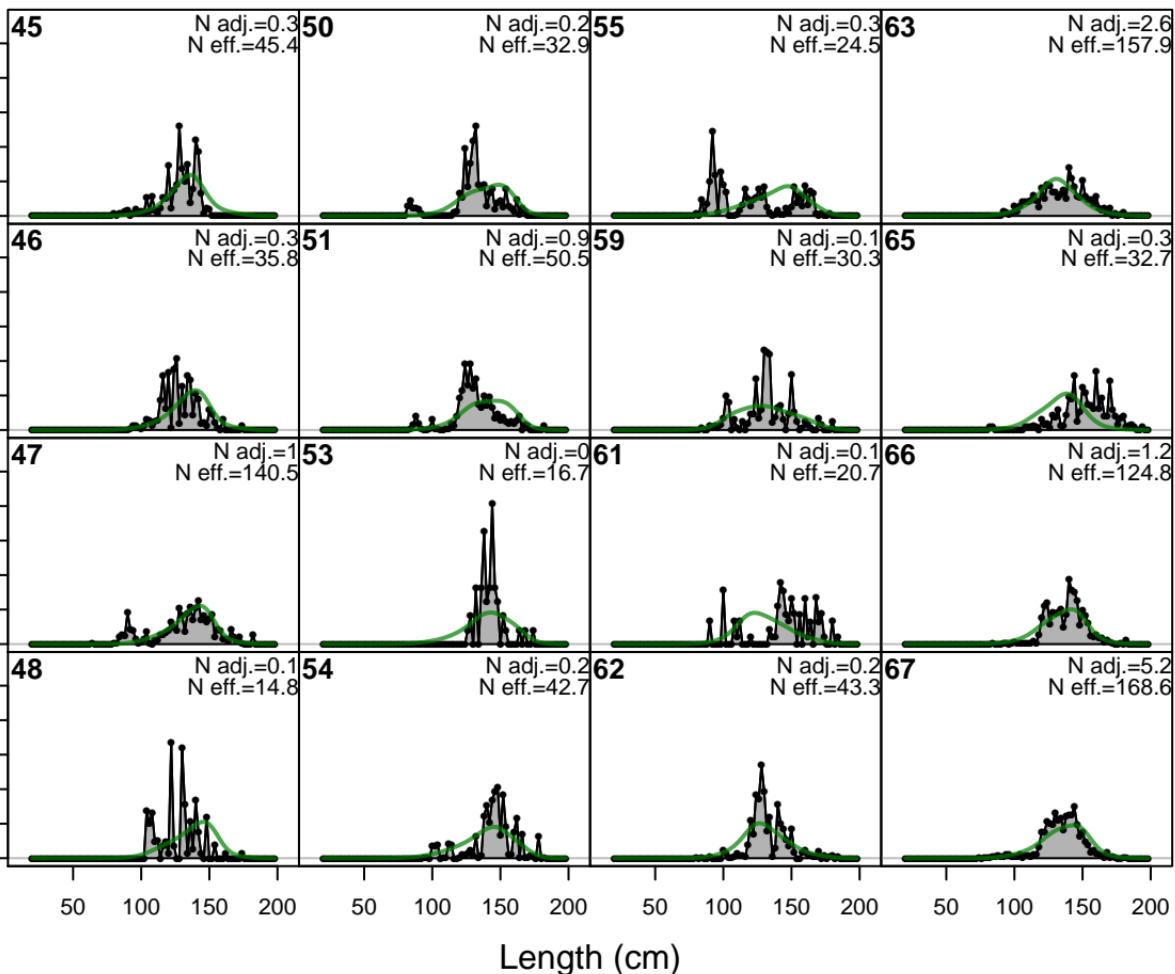




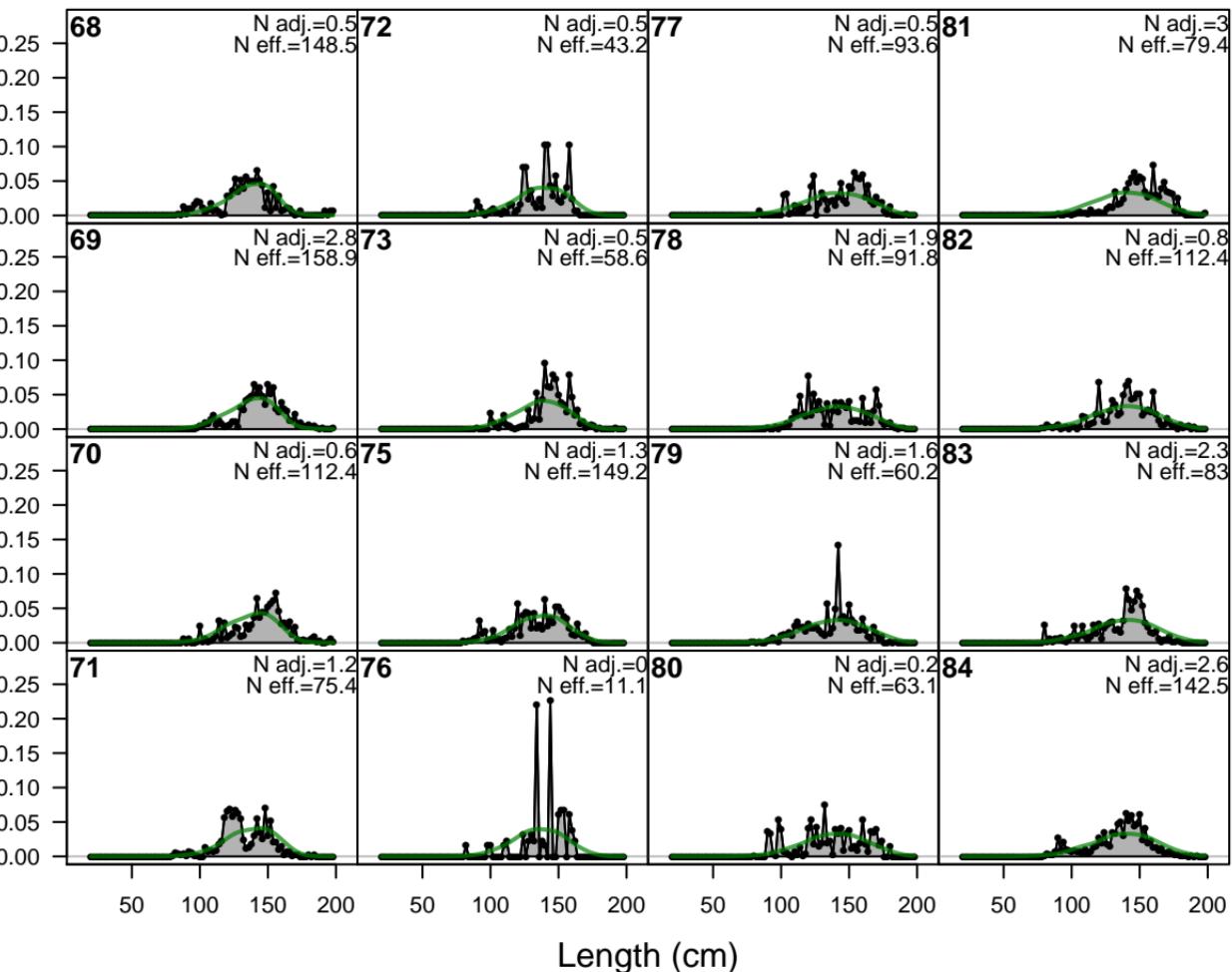
### A4-LL-n (whole catch)



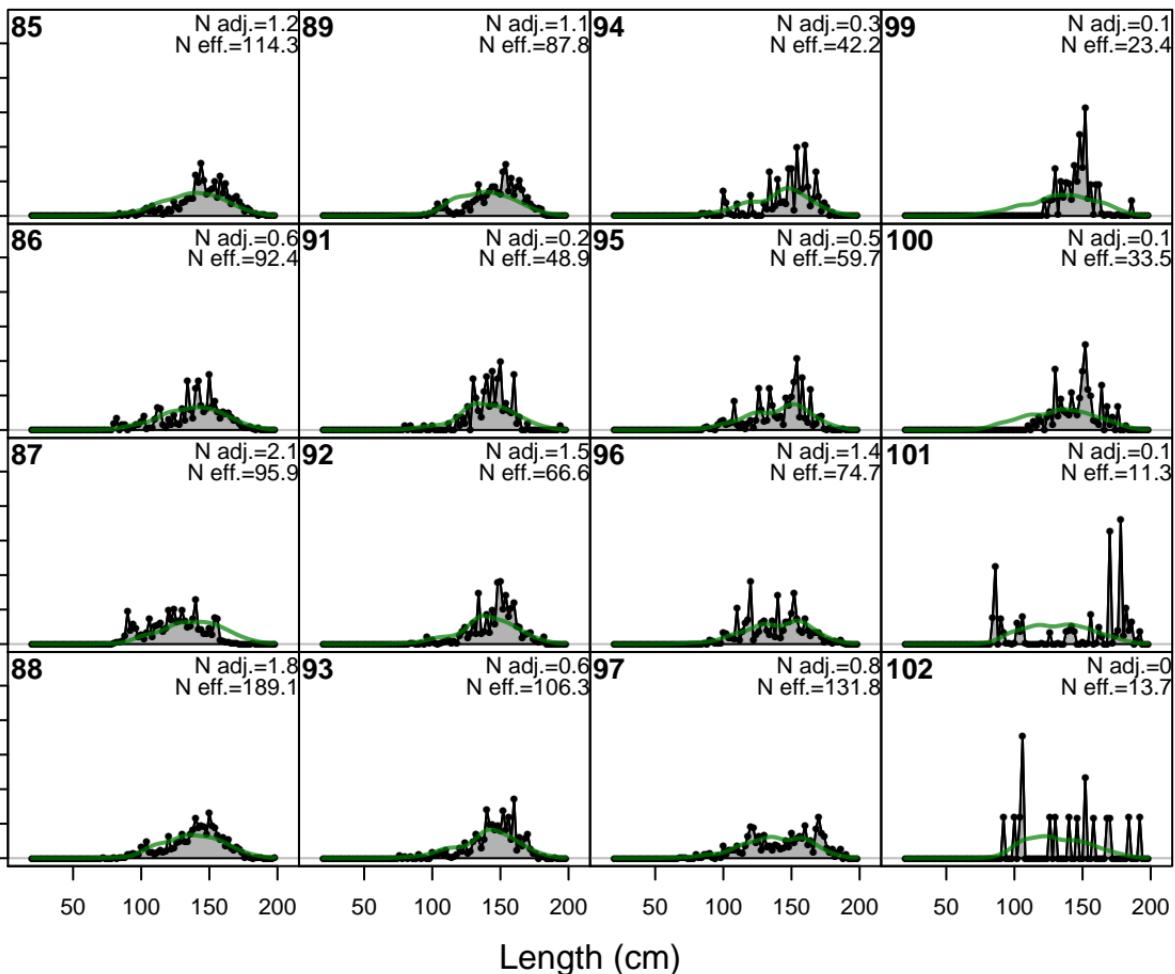
Proportion



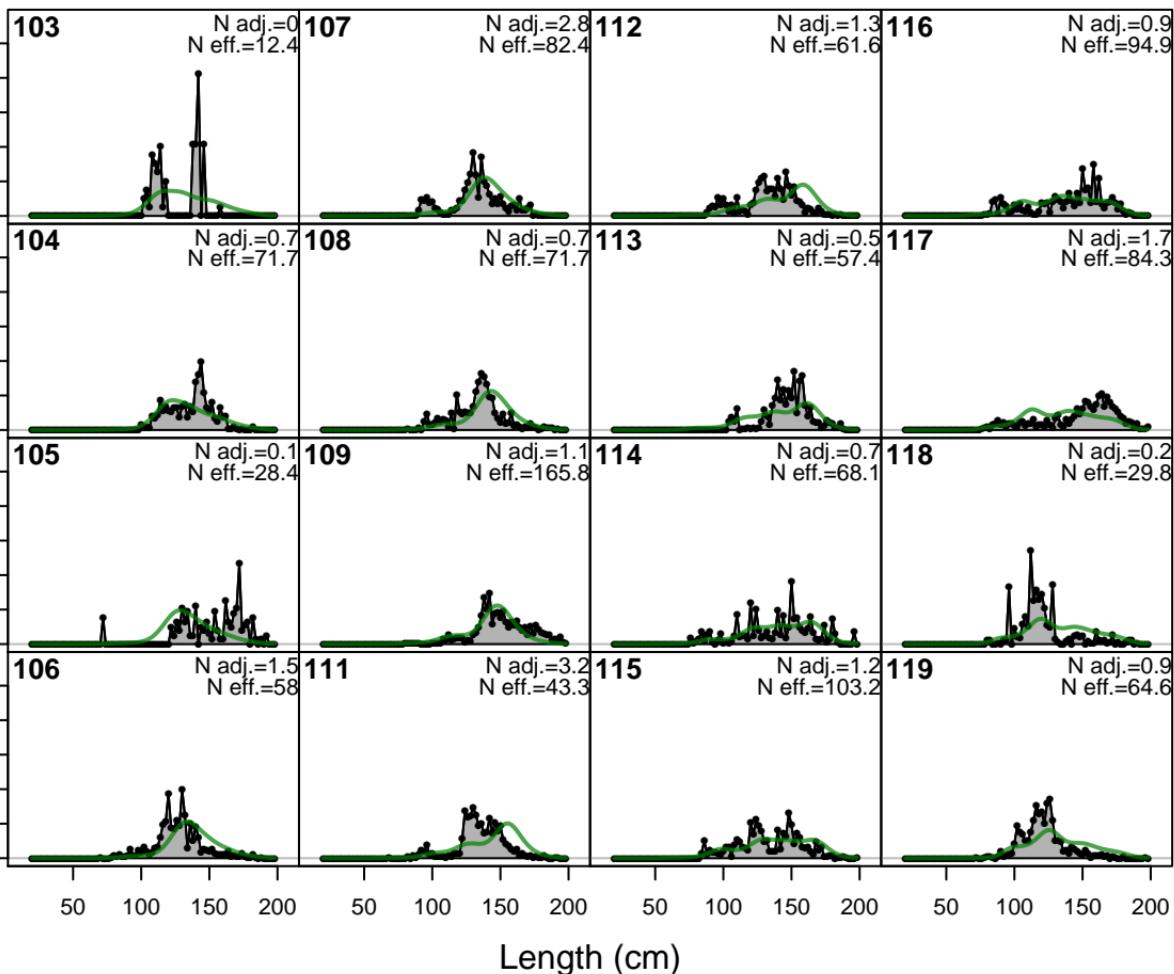
Proportion



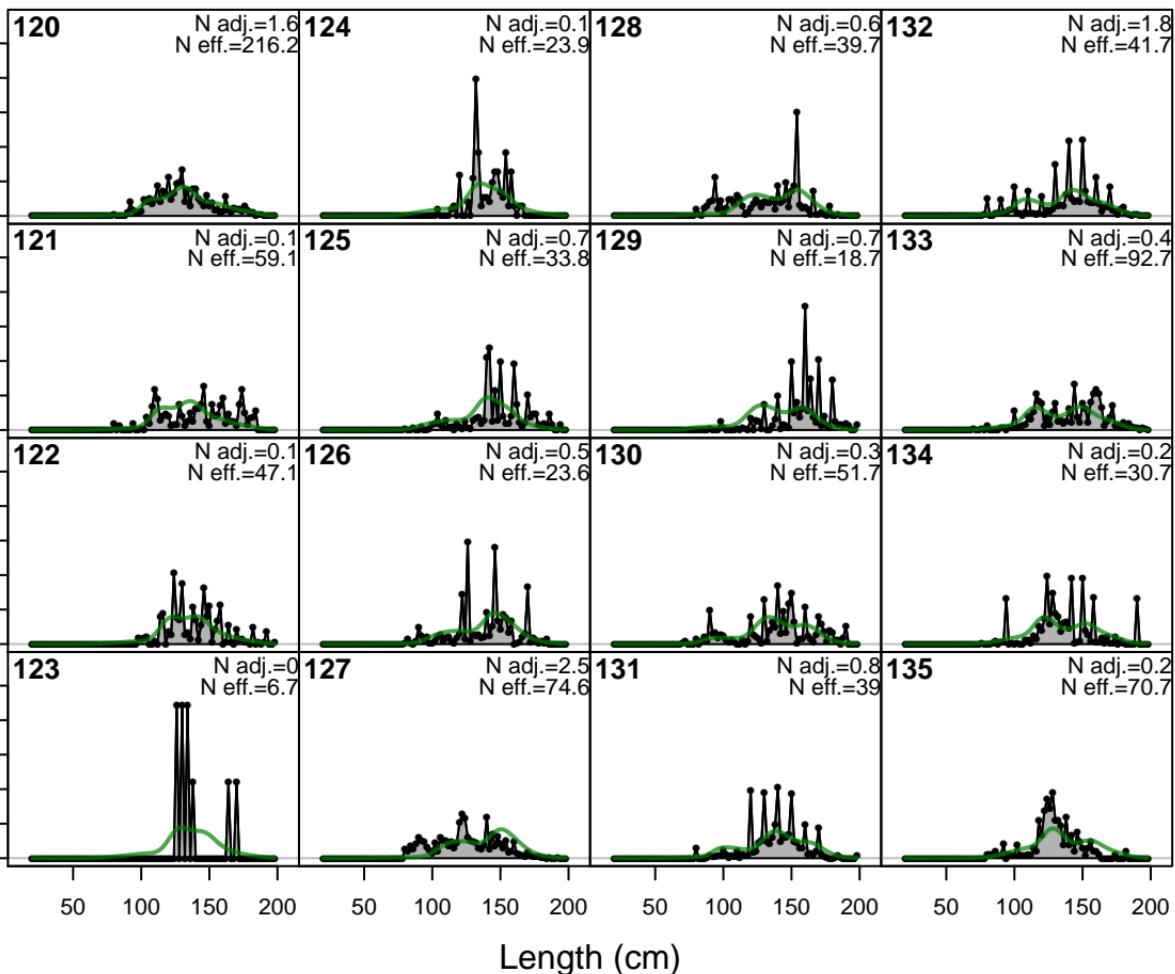
Proportion



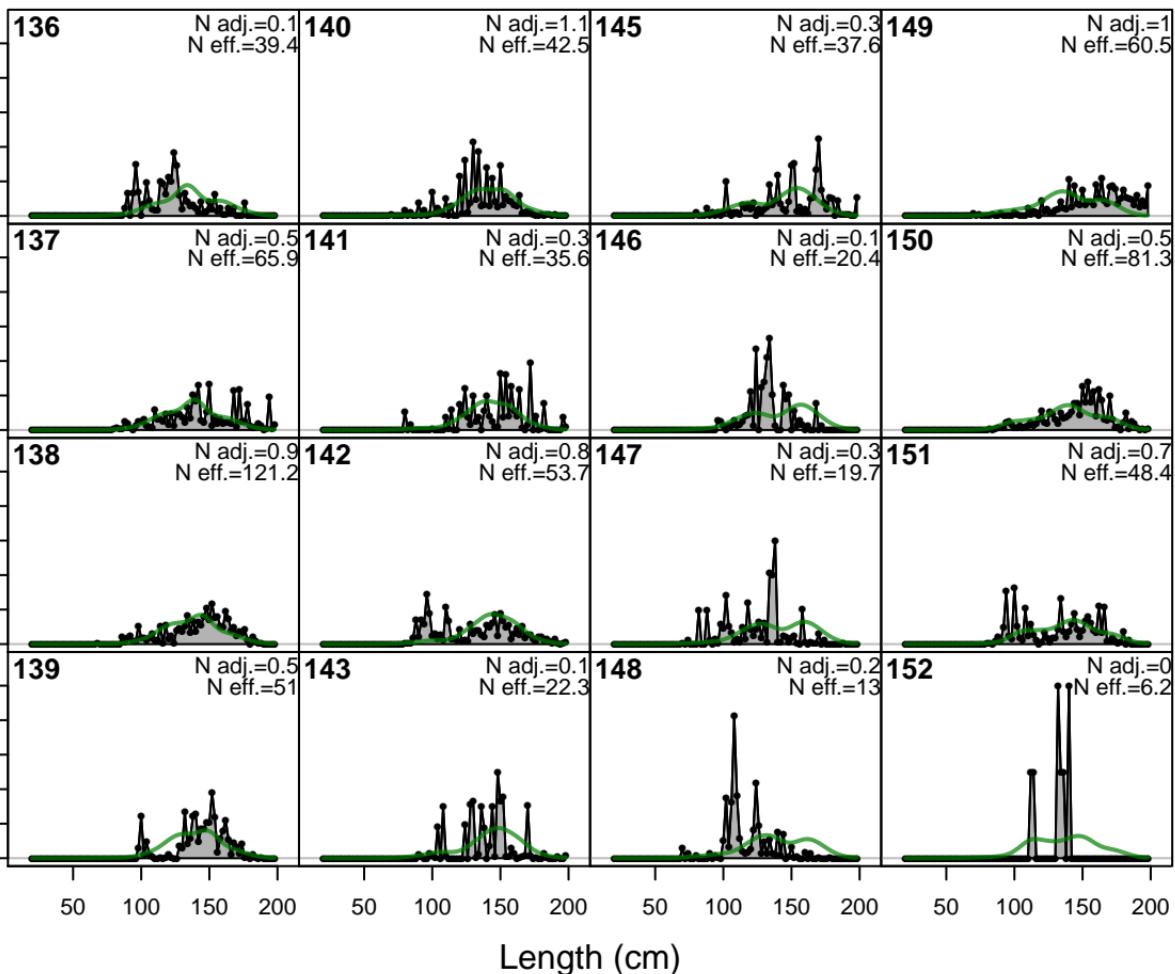
Proportion



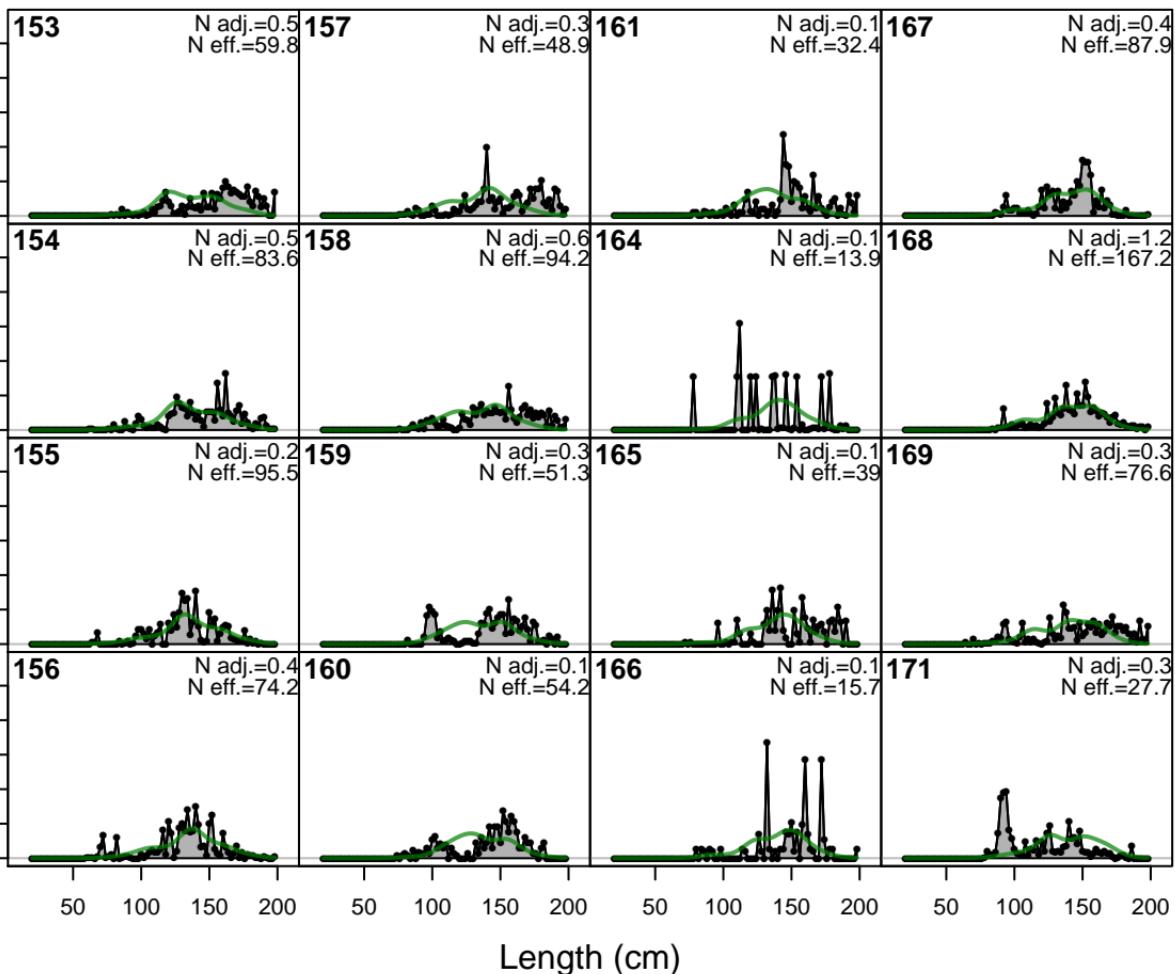
Proportion



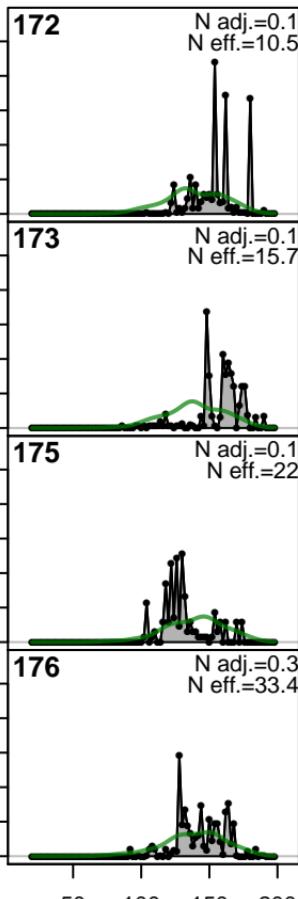
Proportion

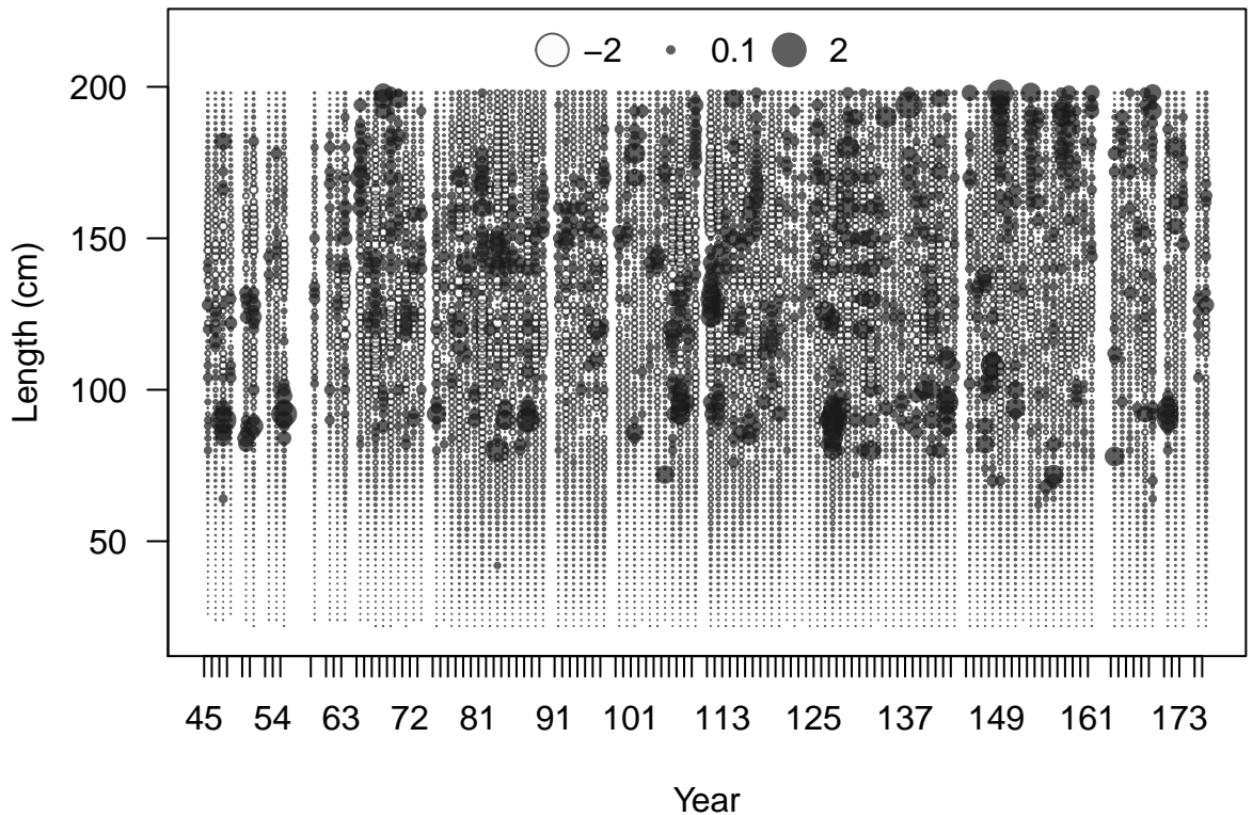


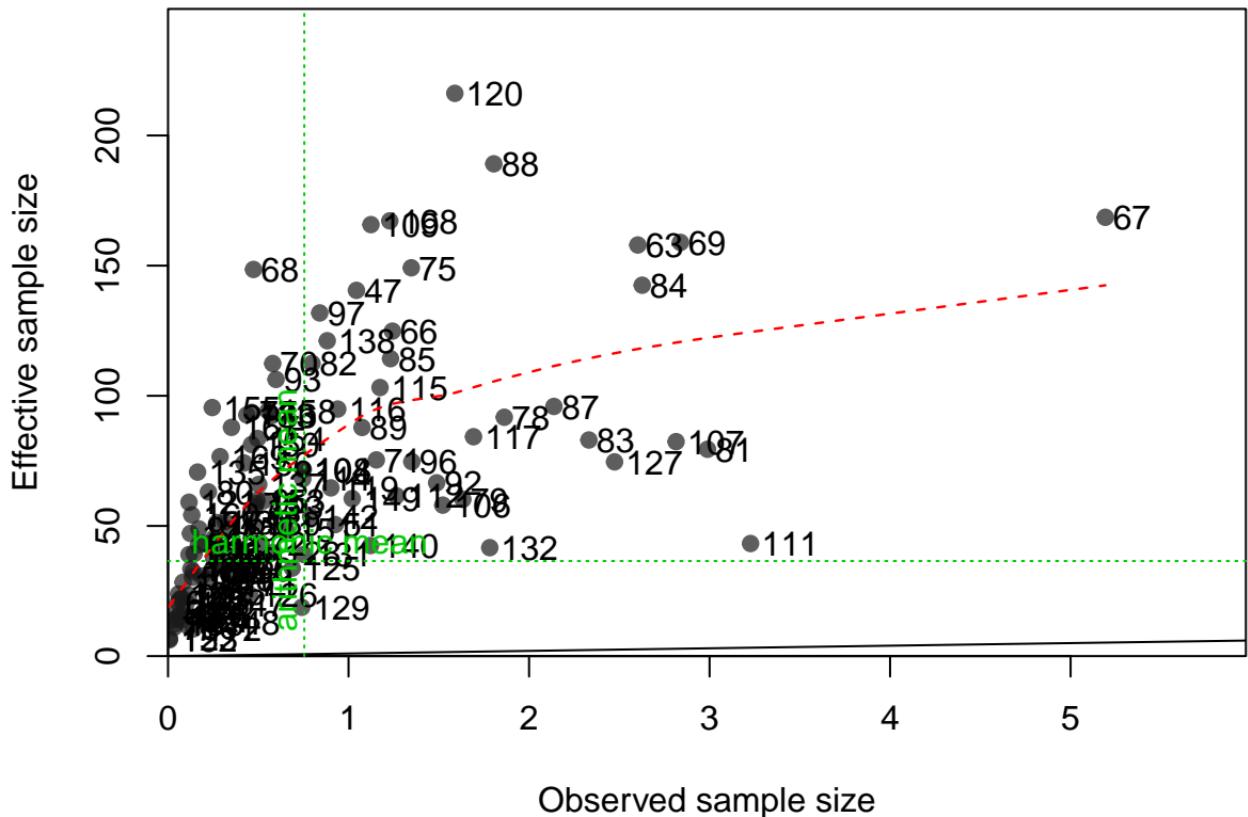
Proportion



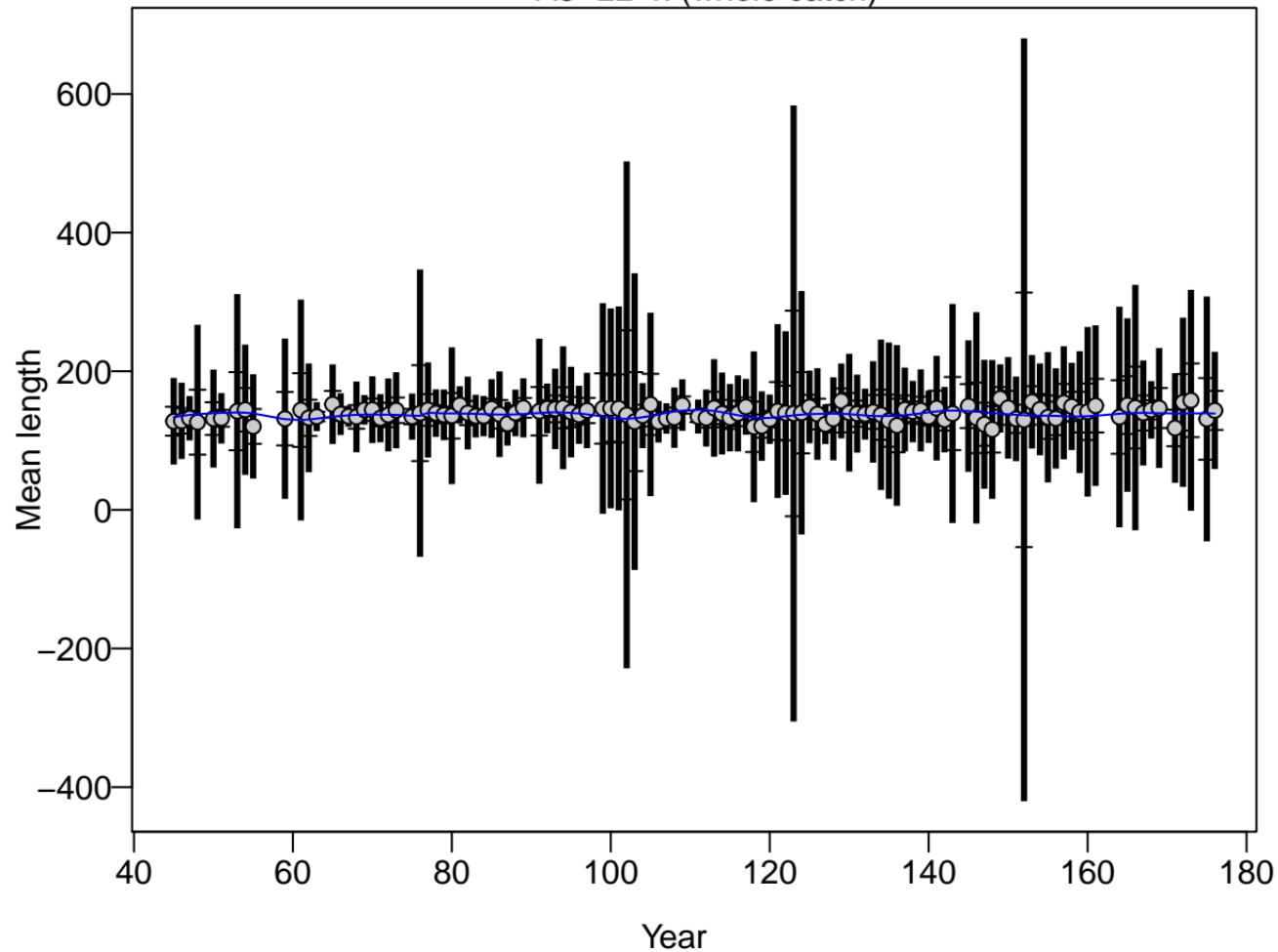
Proportion



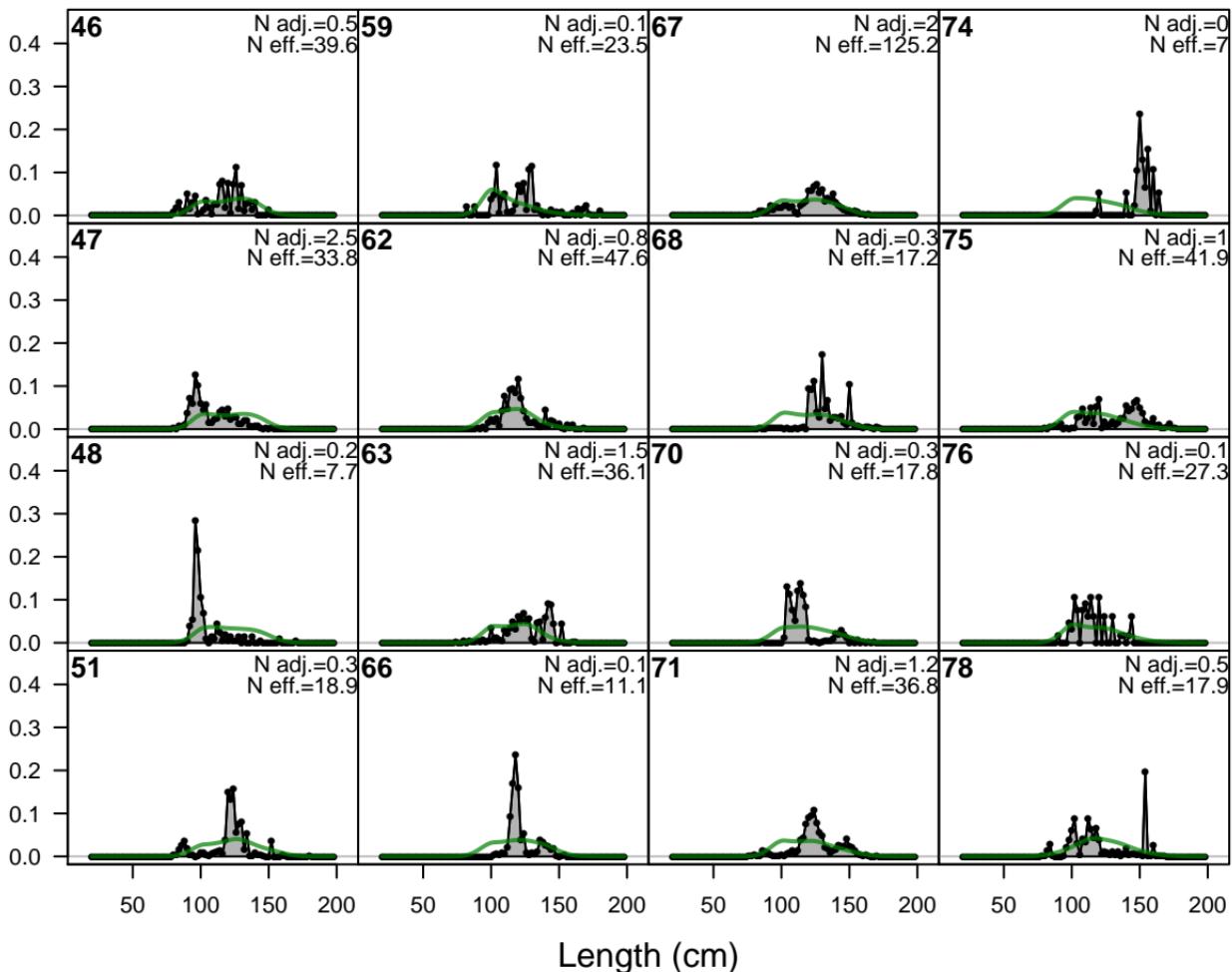




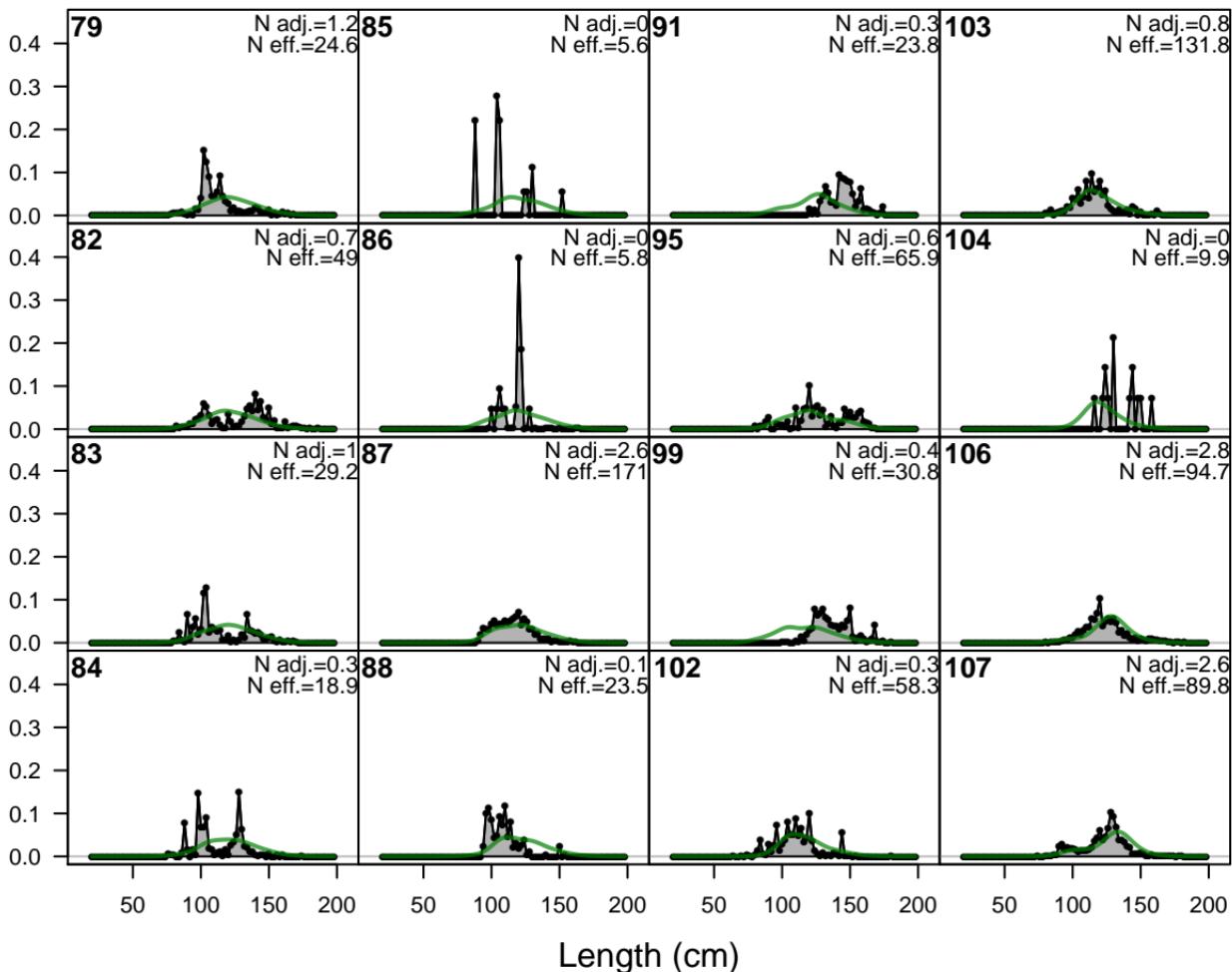
A5-LL-n (whole catch)



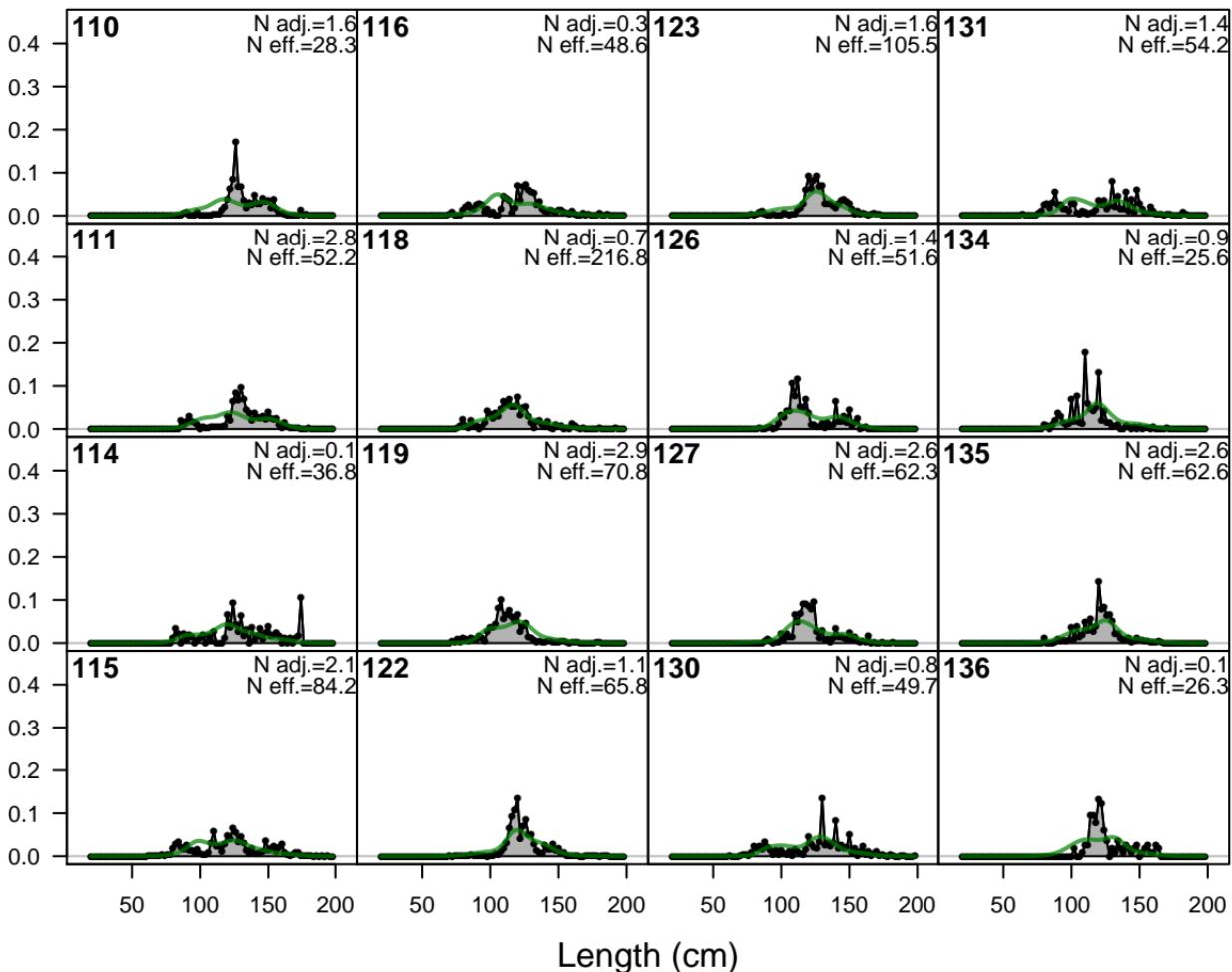
Proportion



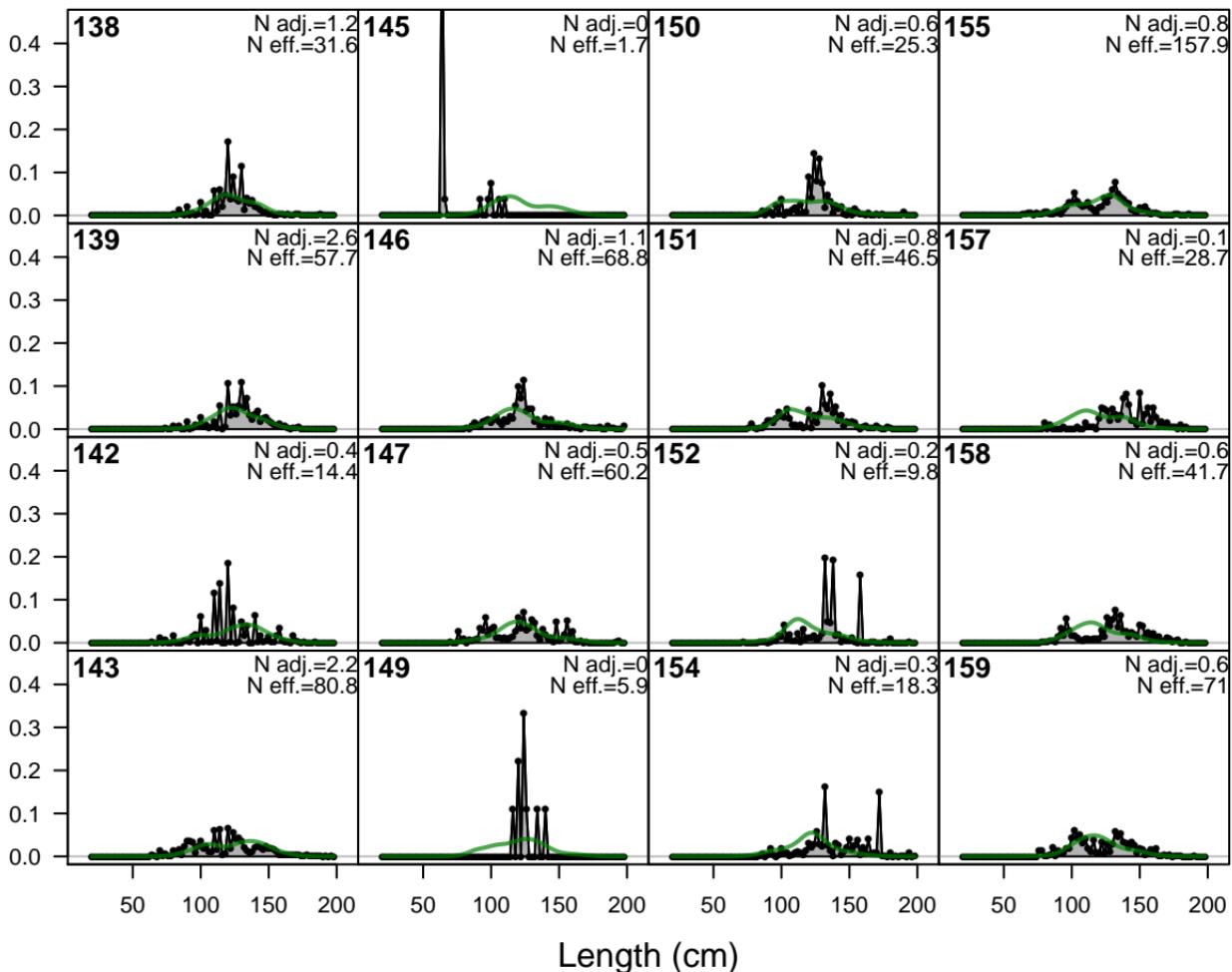
Proportion



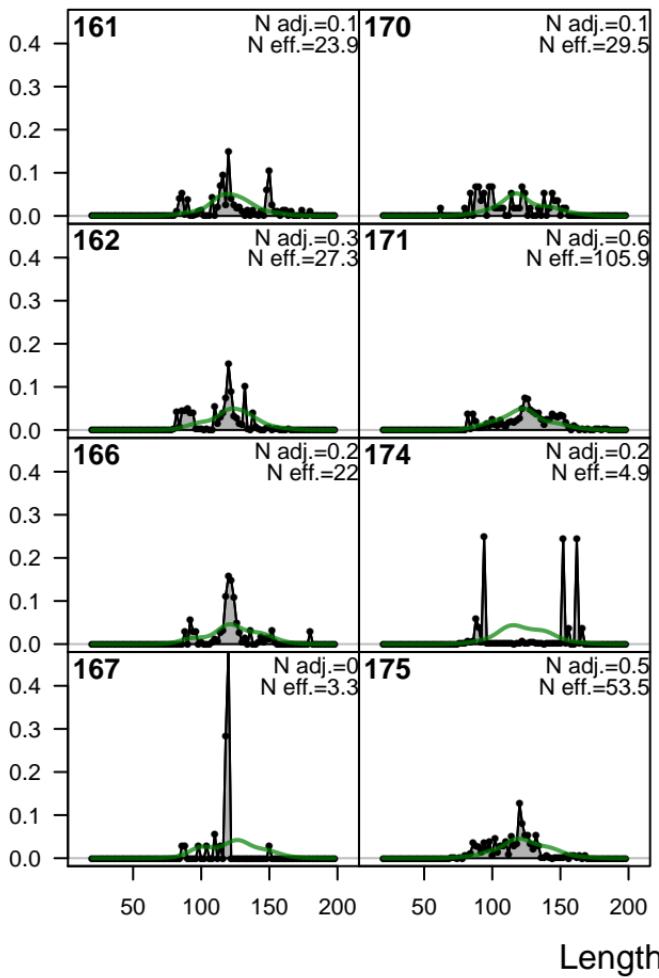
Proportion

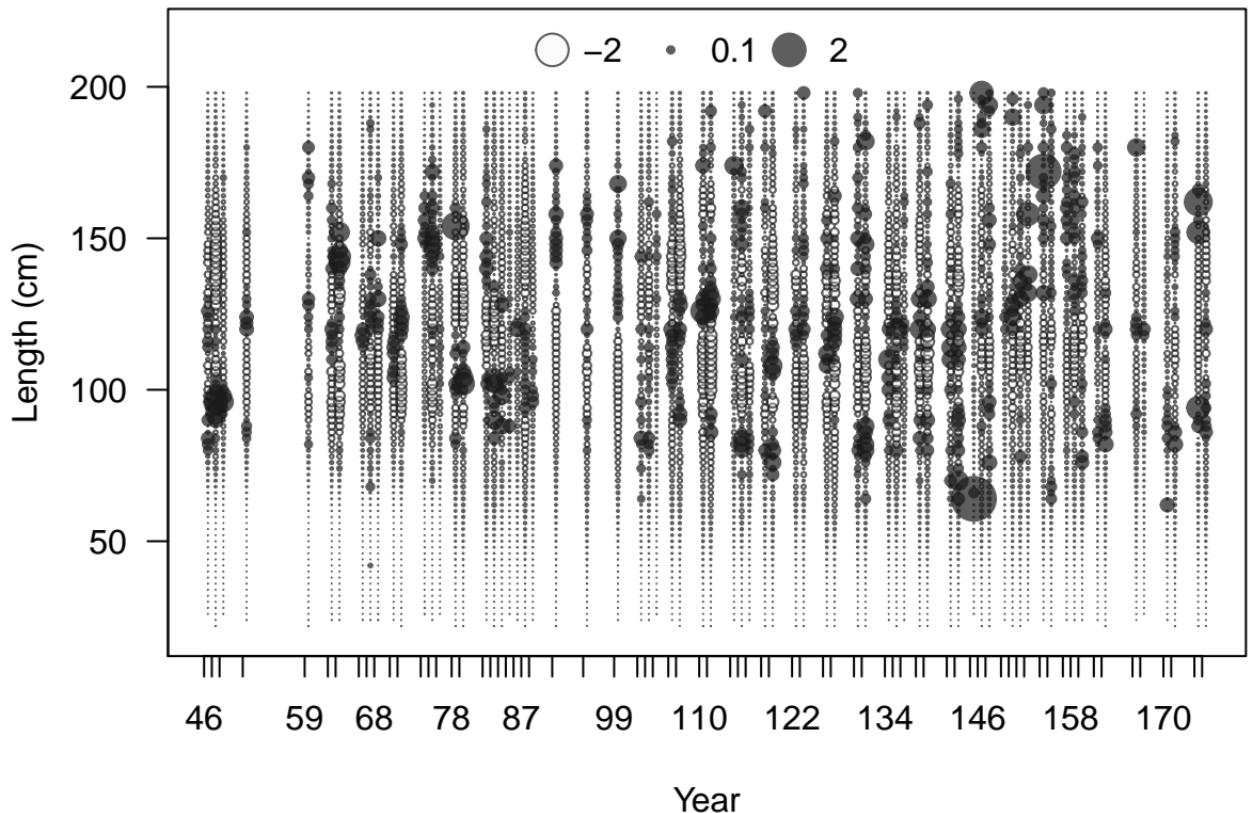


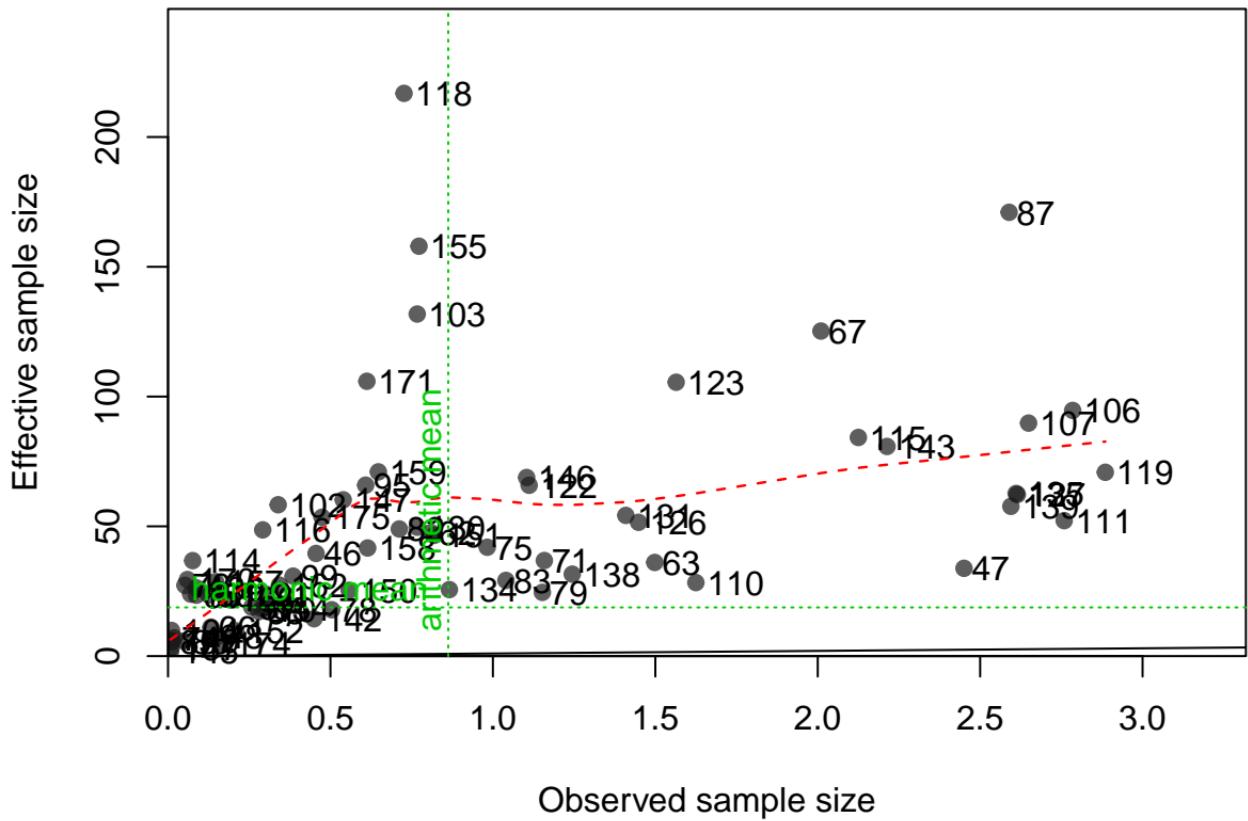
Proportion



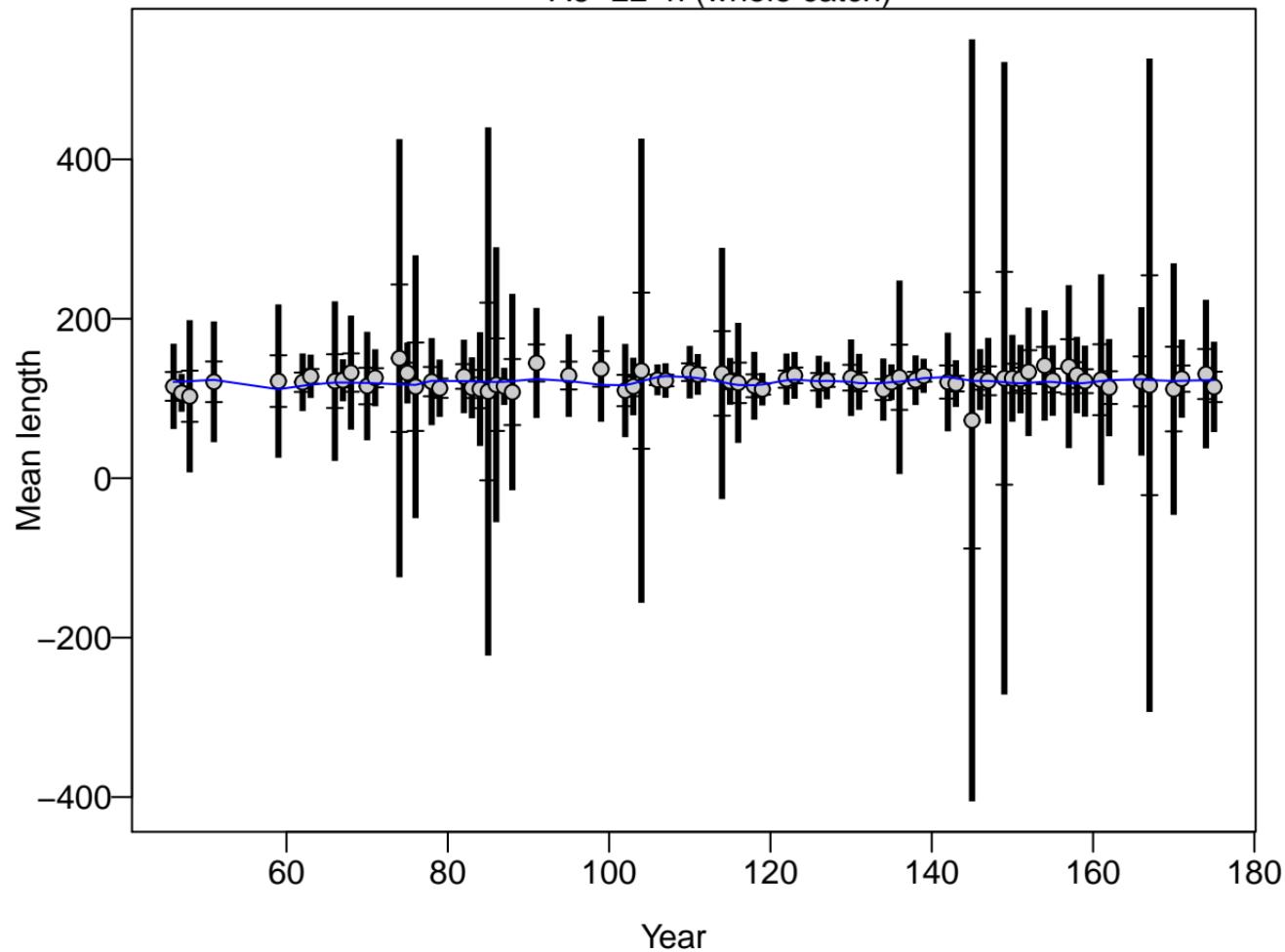
Proportion



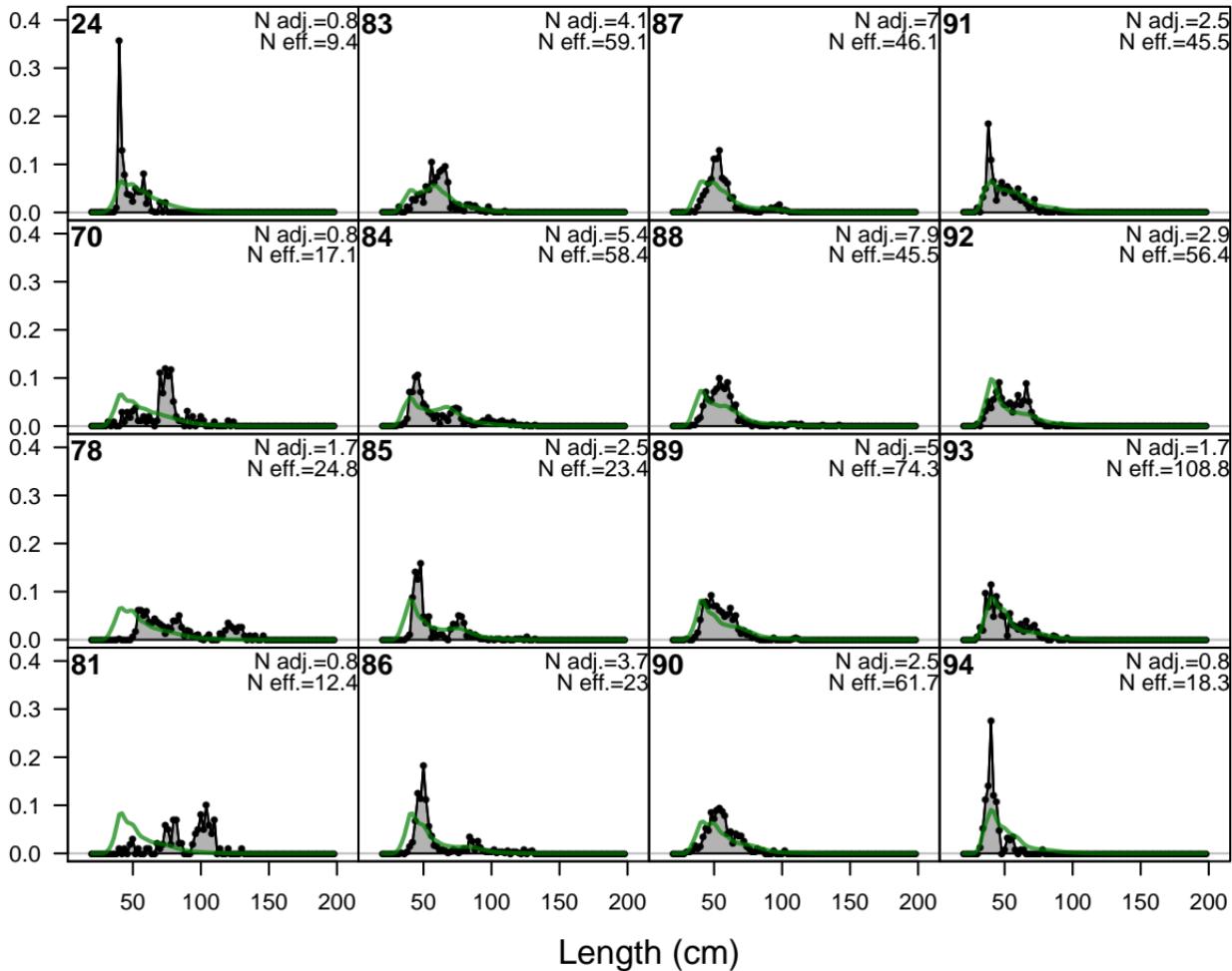




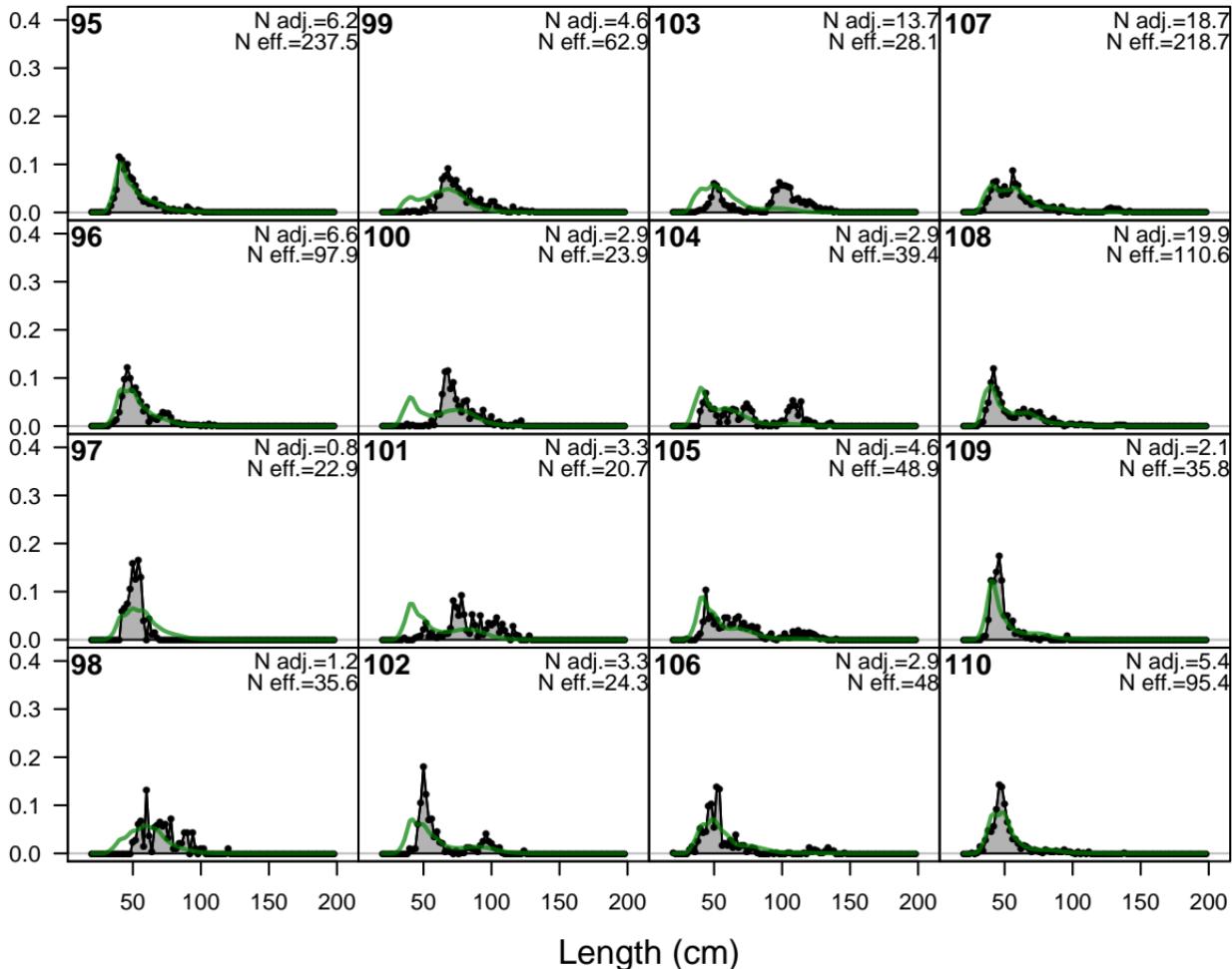
A6-LL-n (whole catch)



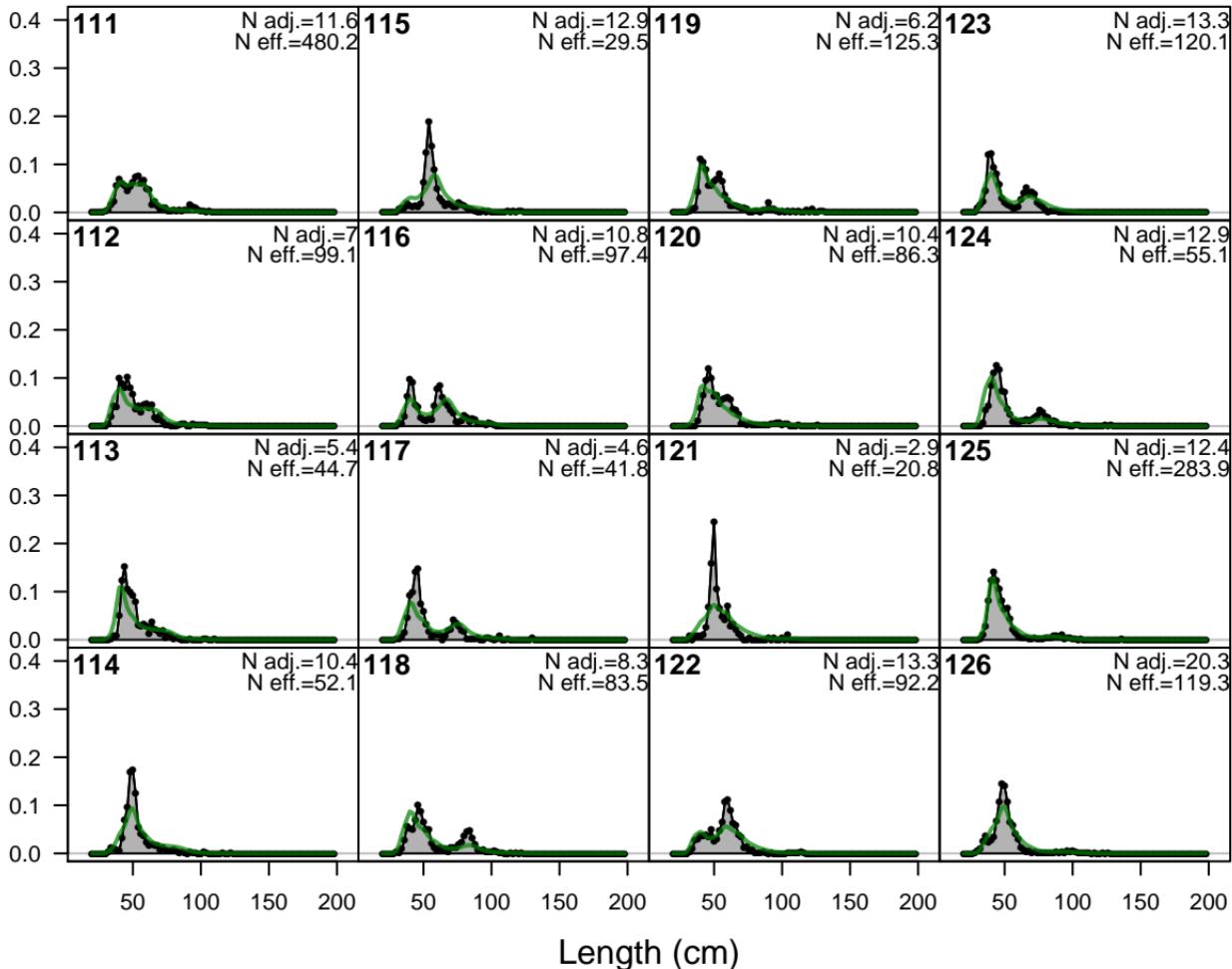
Proportion



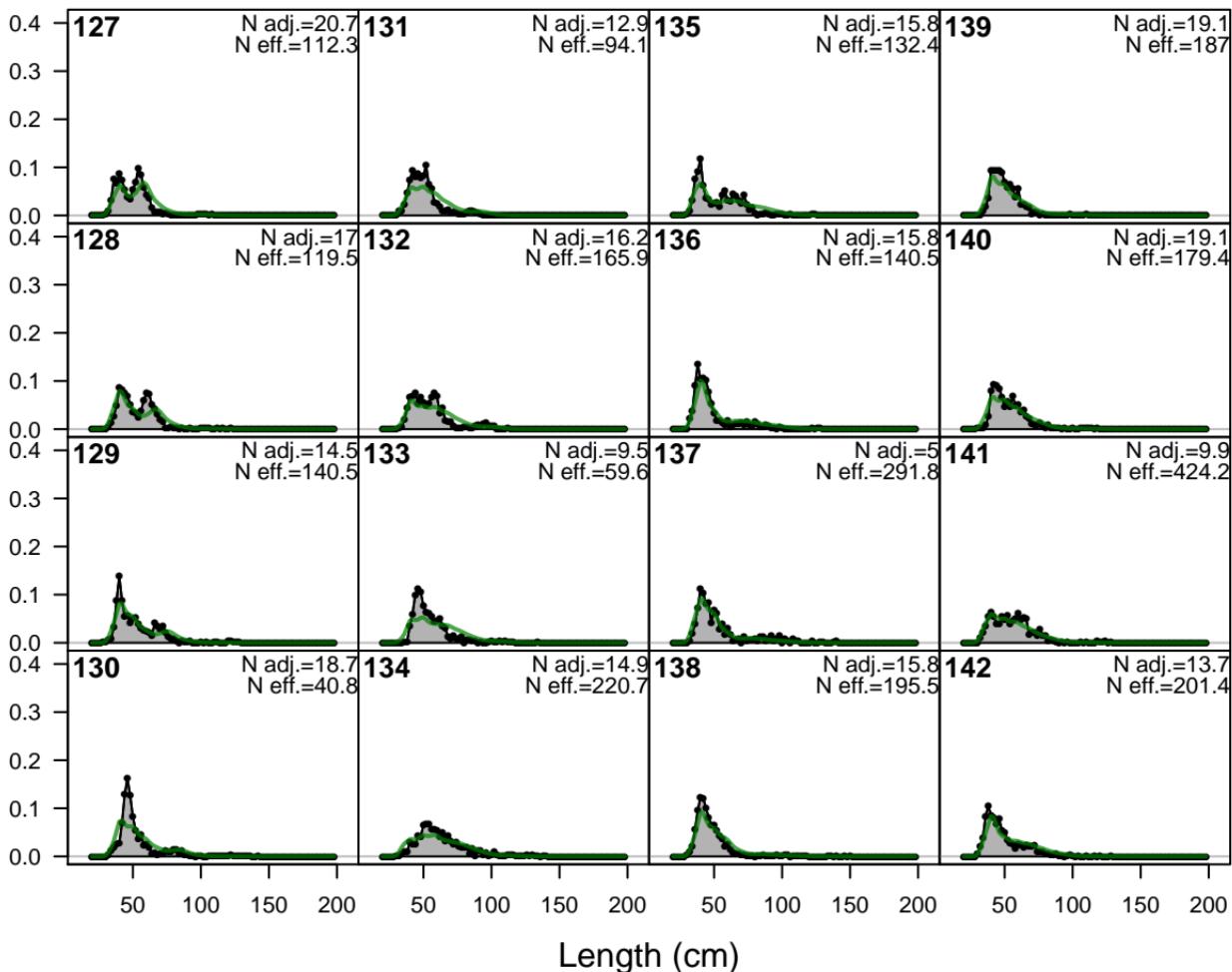
Proportion



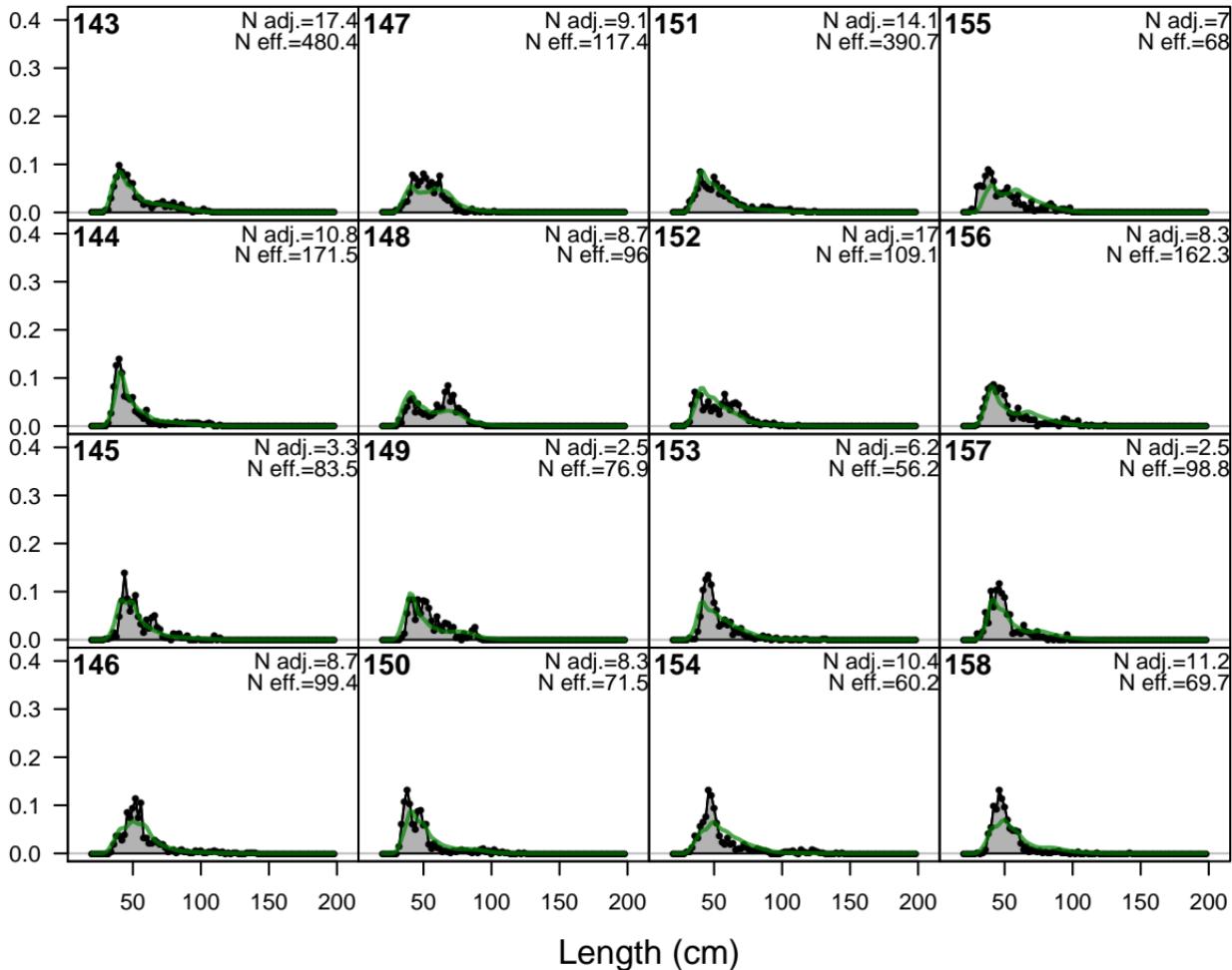
Proportion



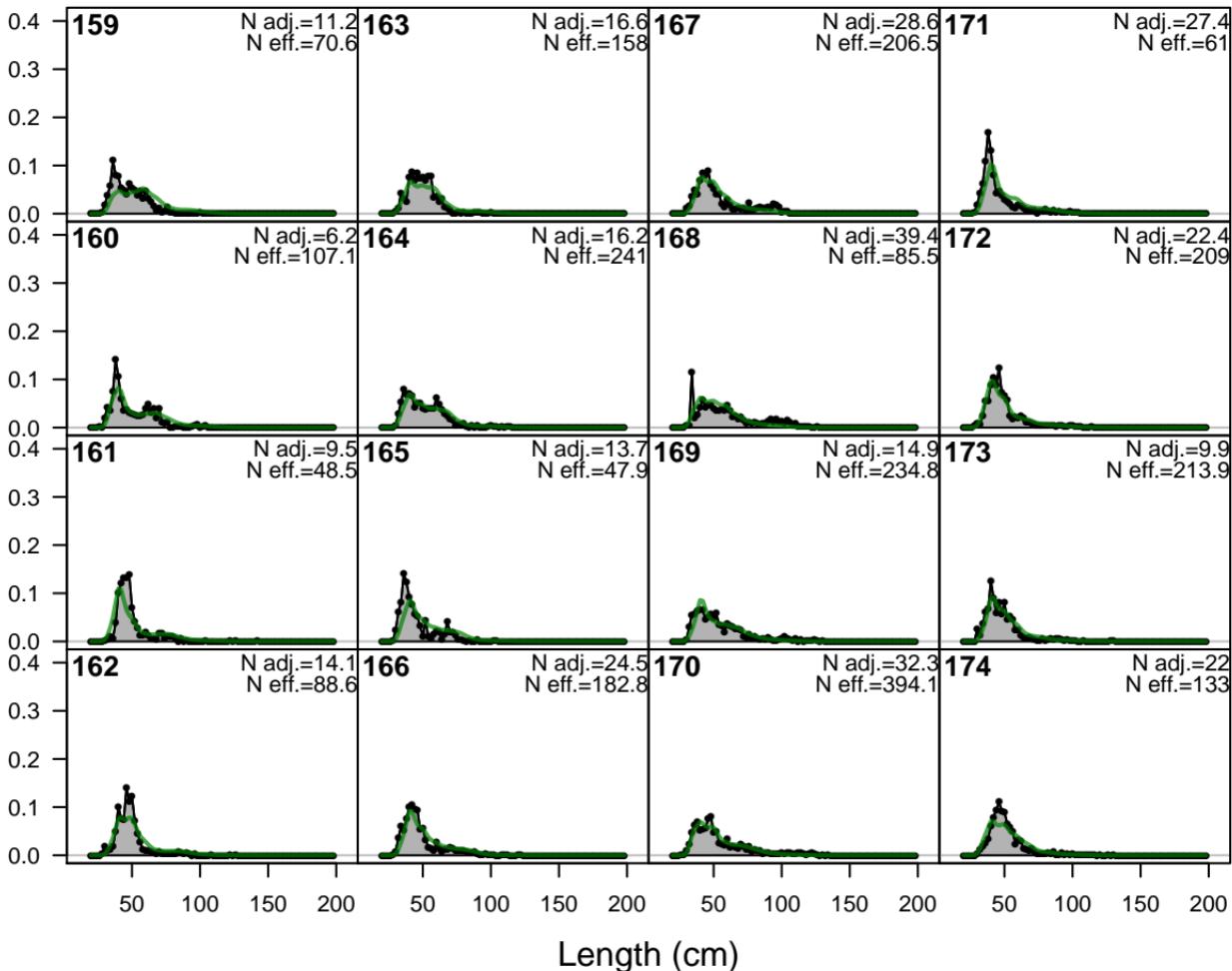
Proportion

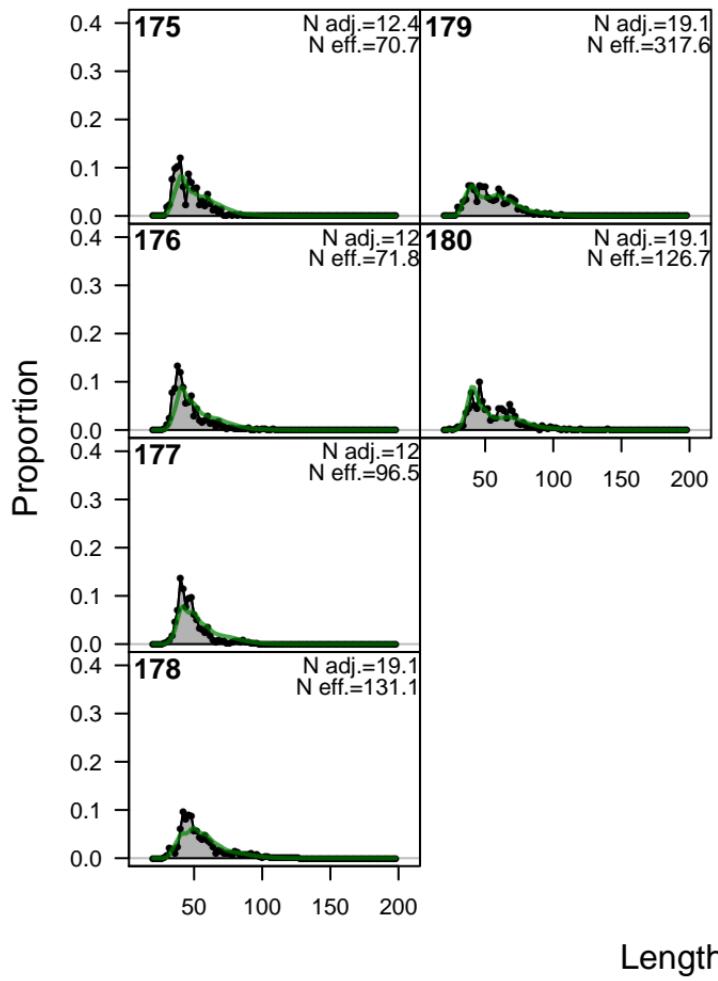


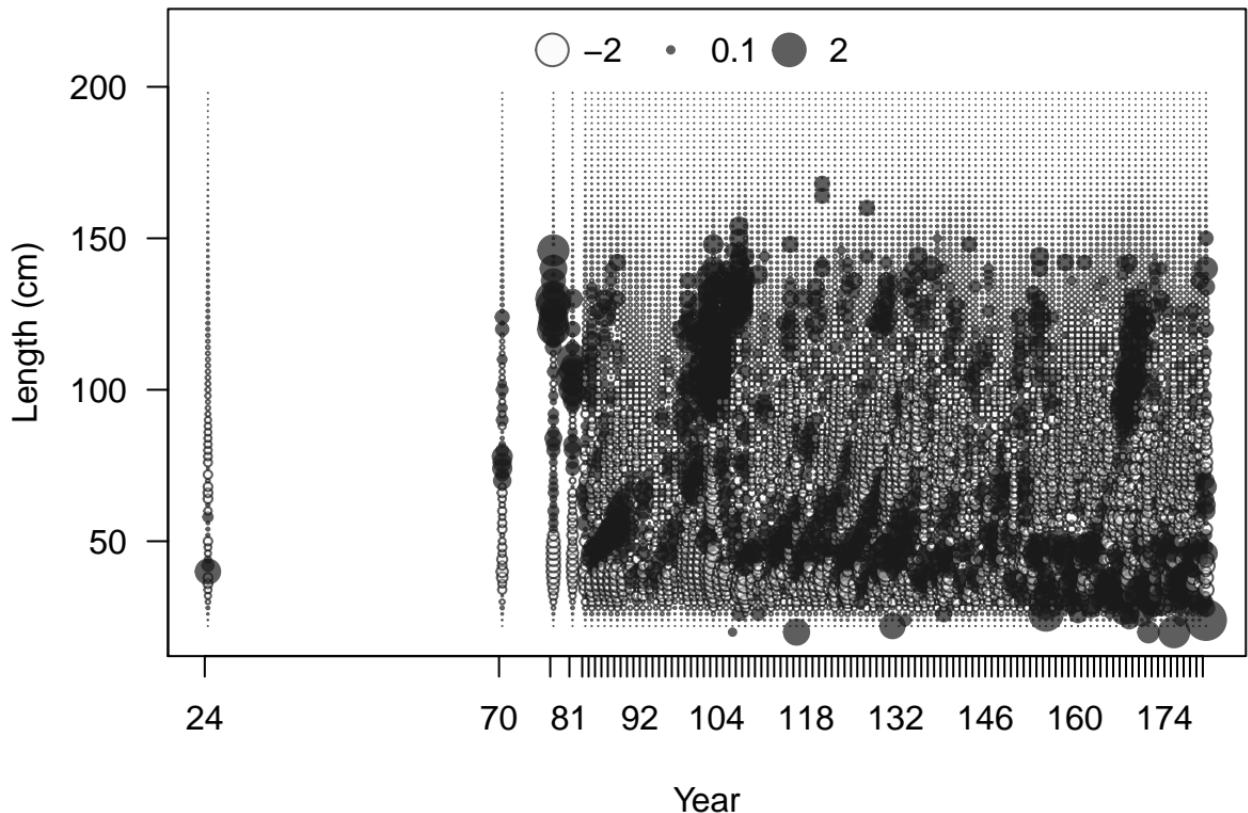
Proportion

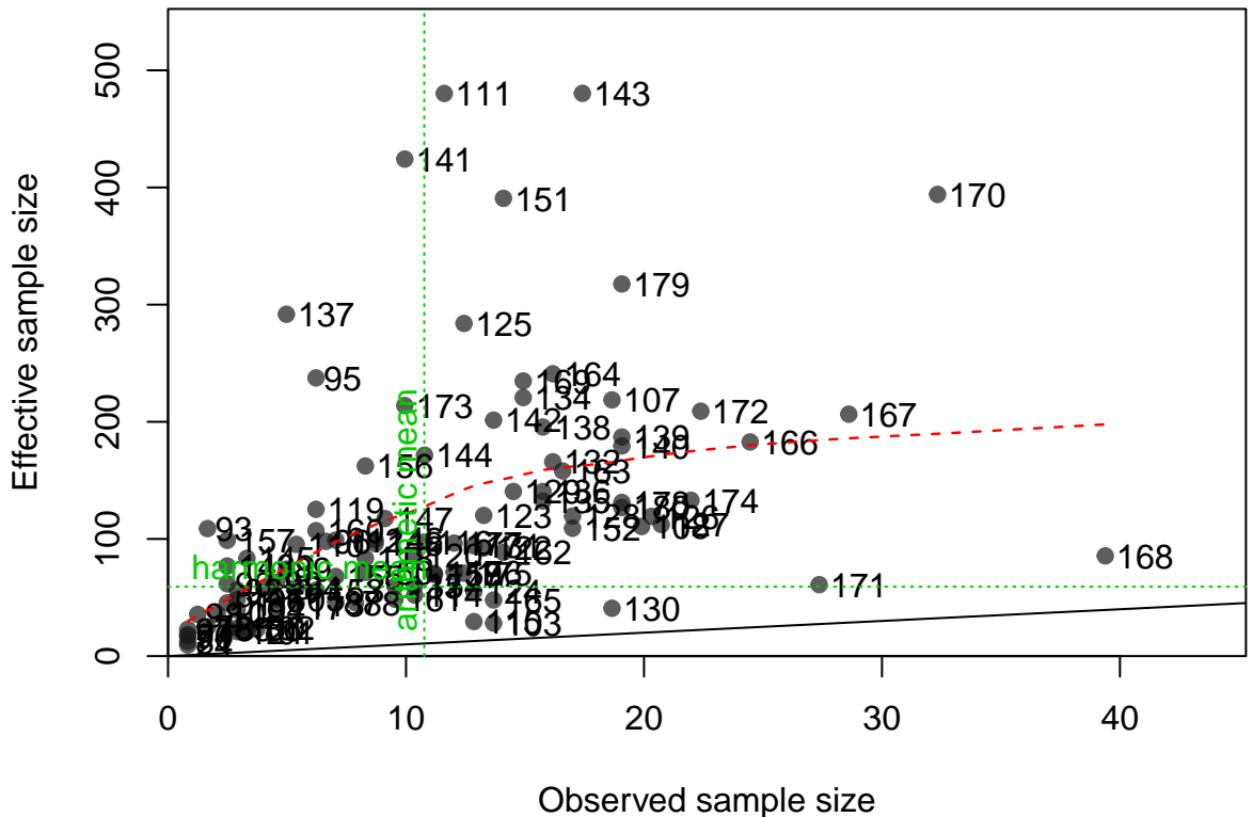


Proportion

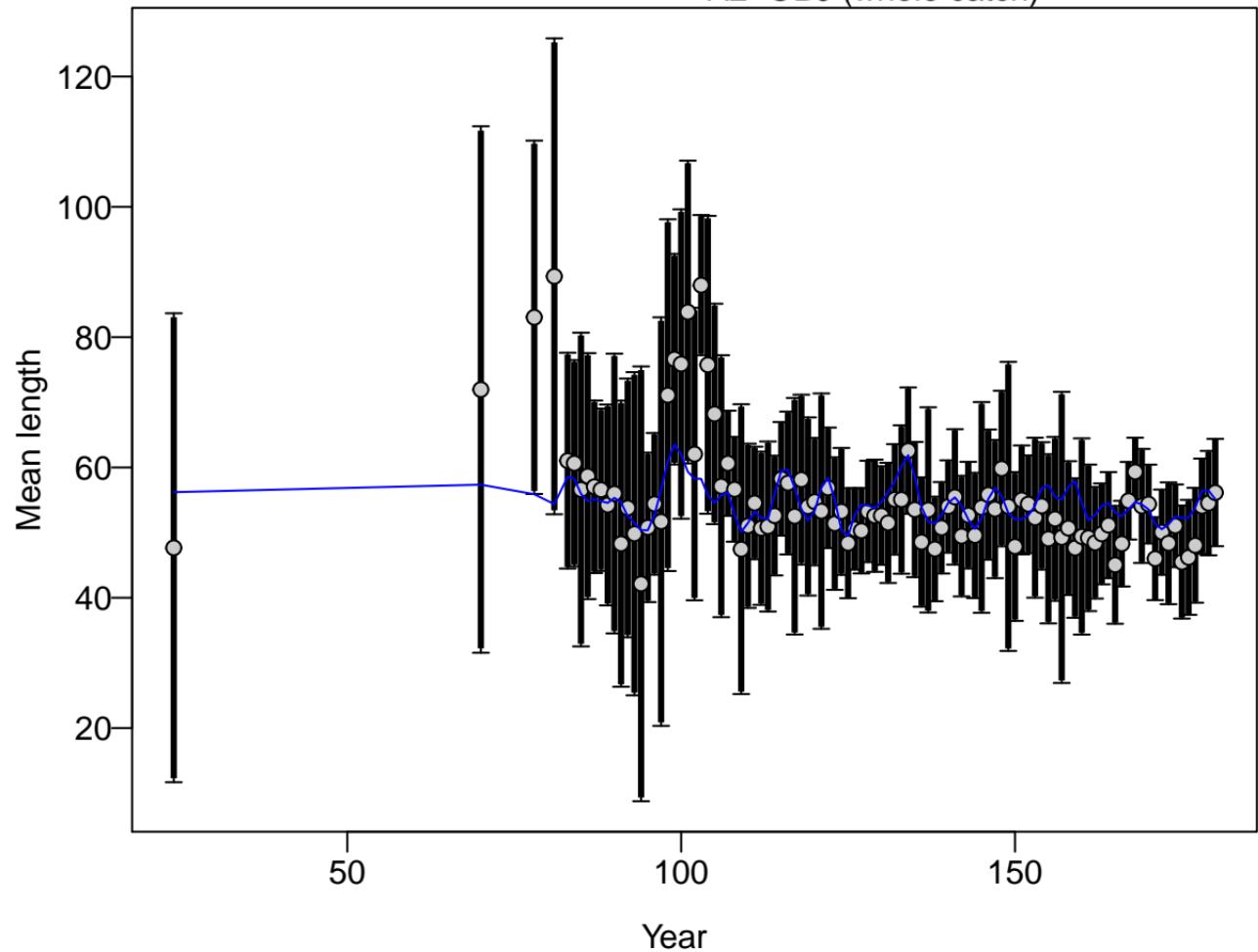




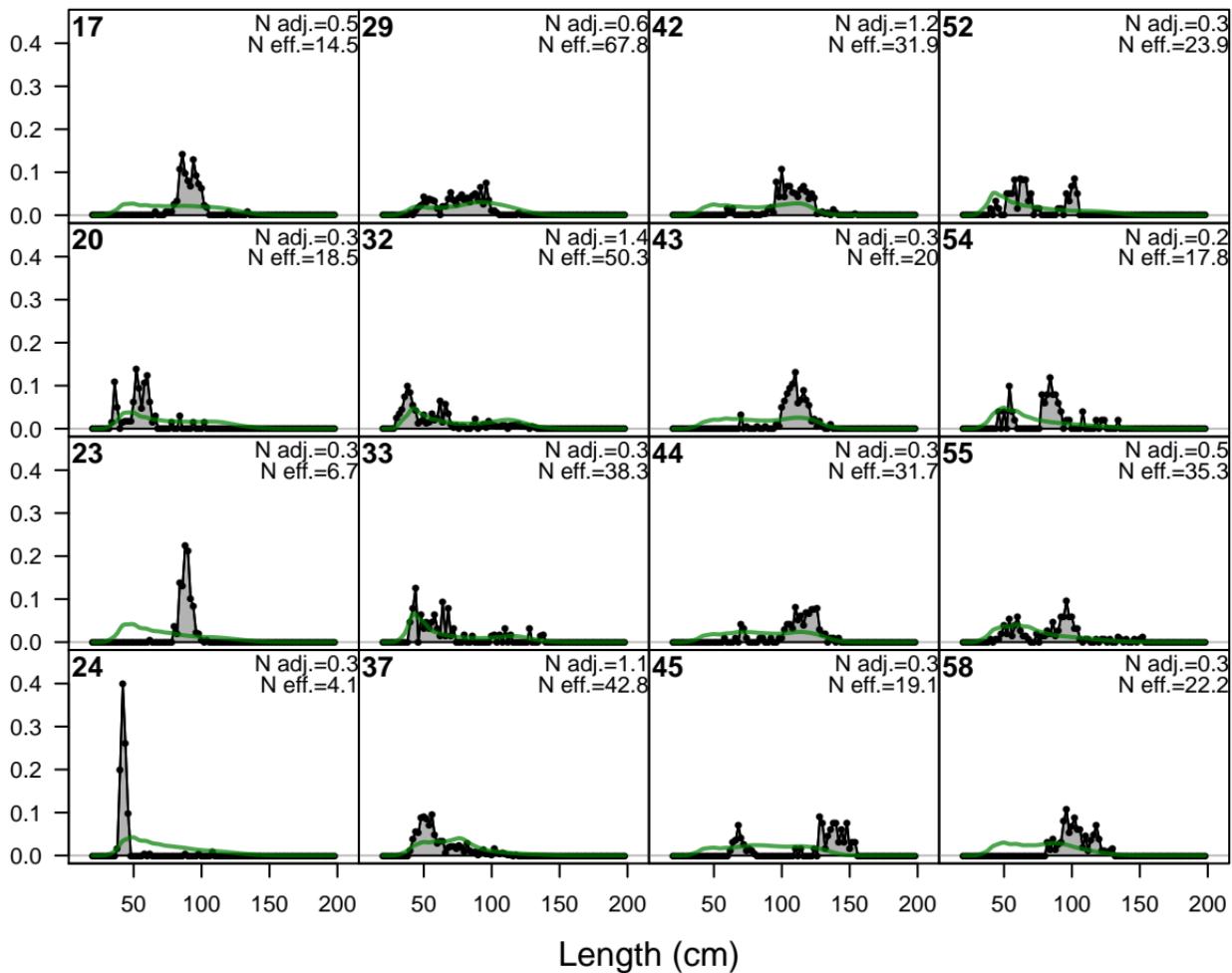




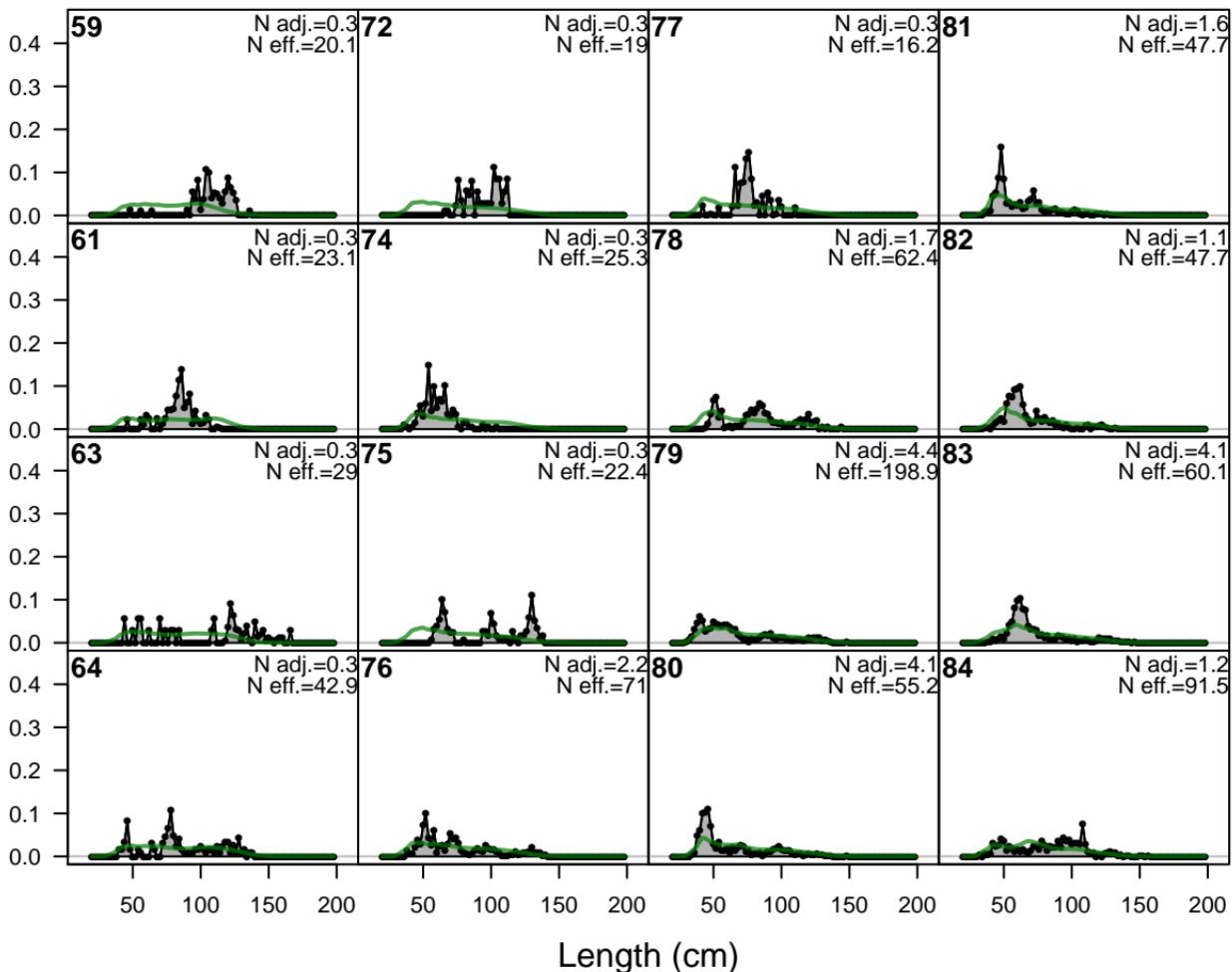
# A2-OBJ (whole catch)



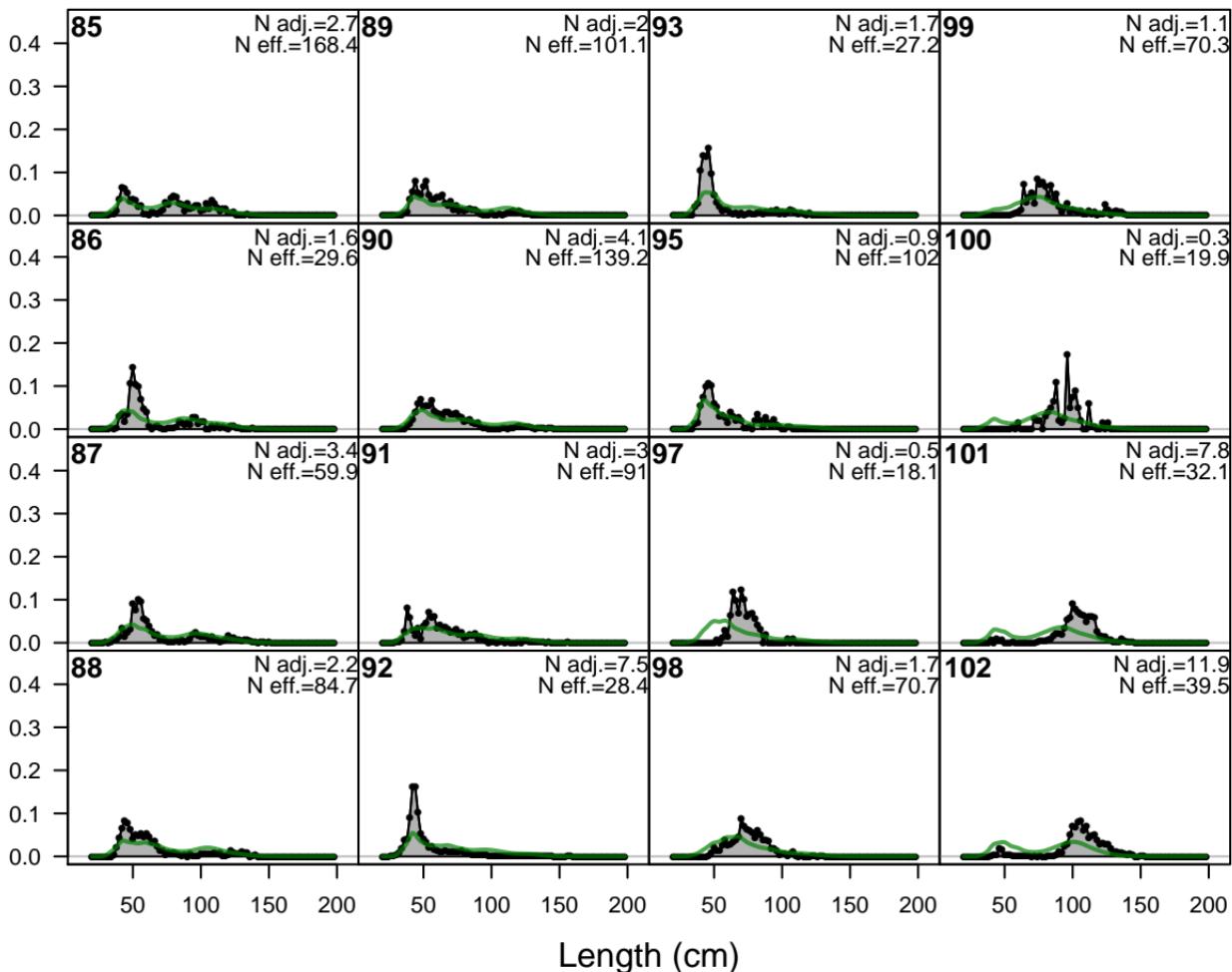
Proportion



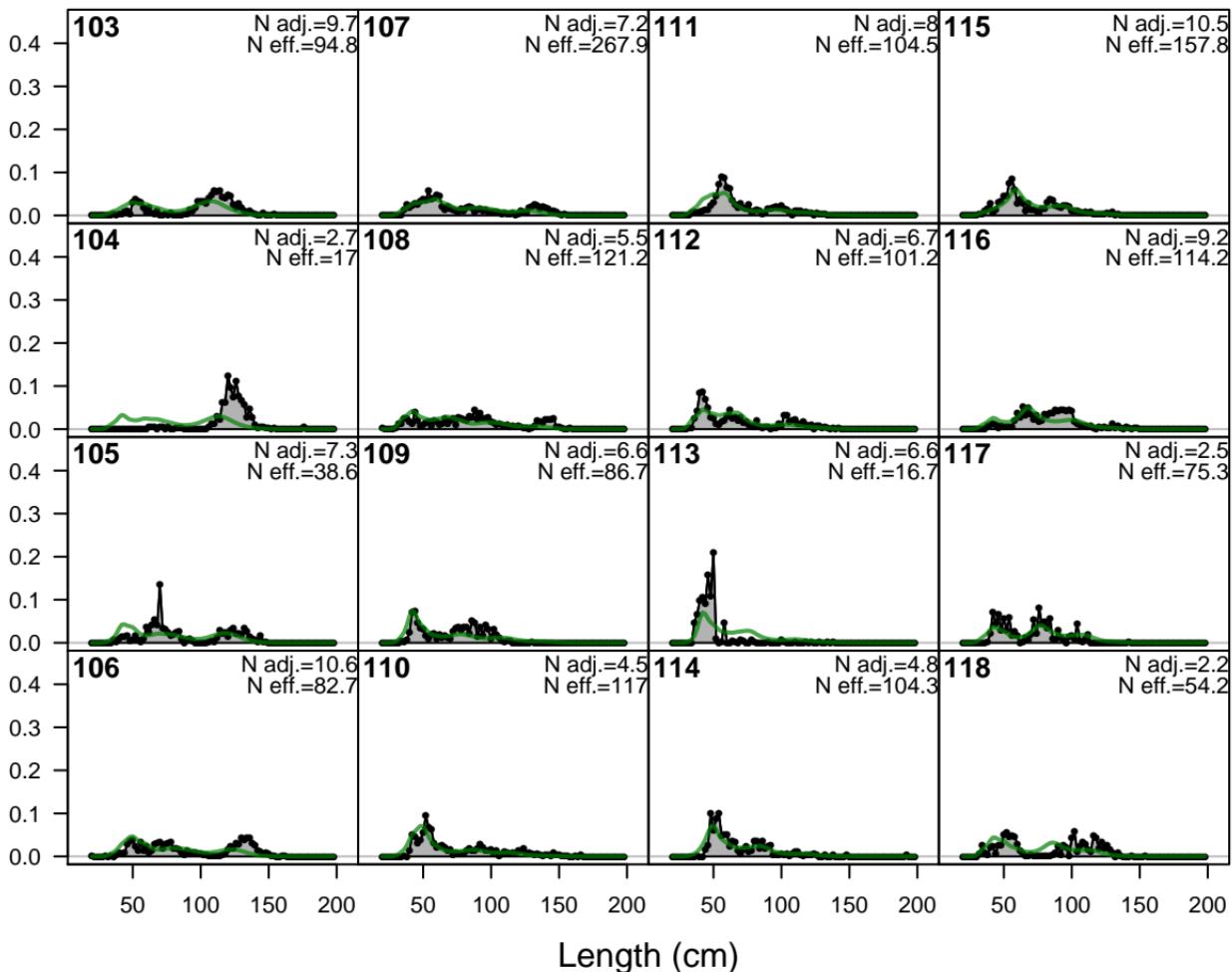
Proportion



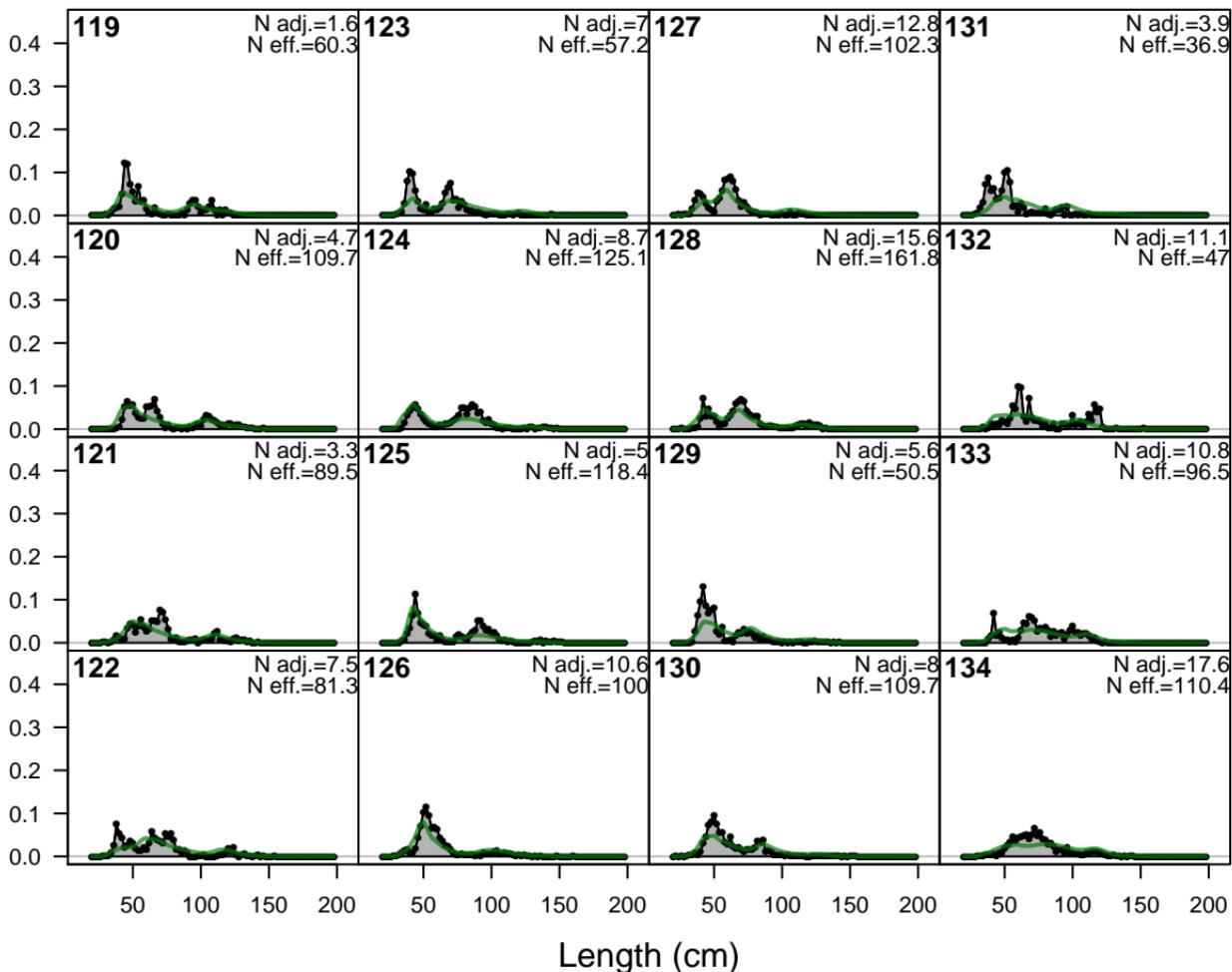
Proportion



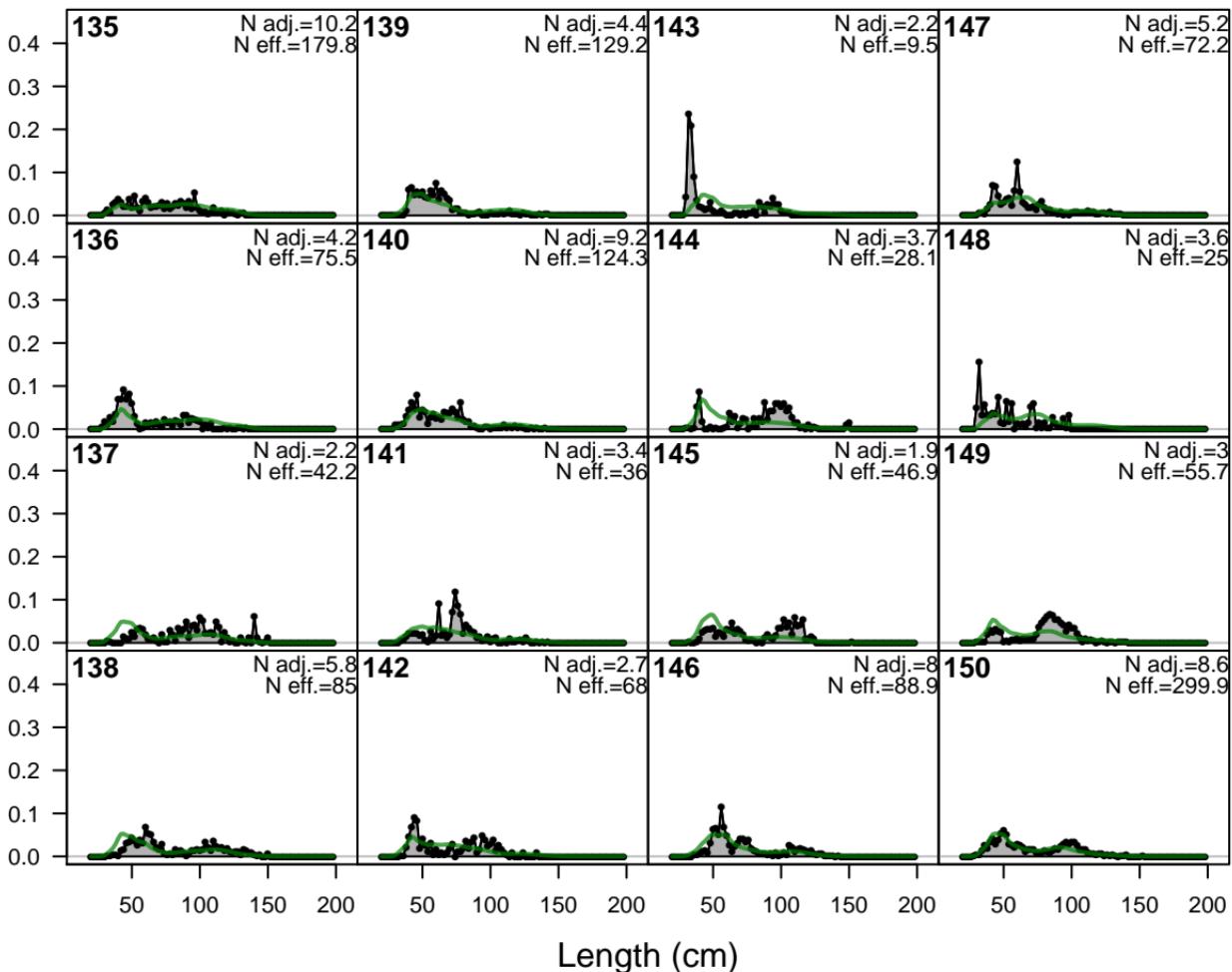
Proportion



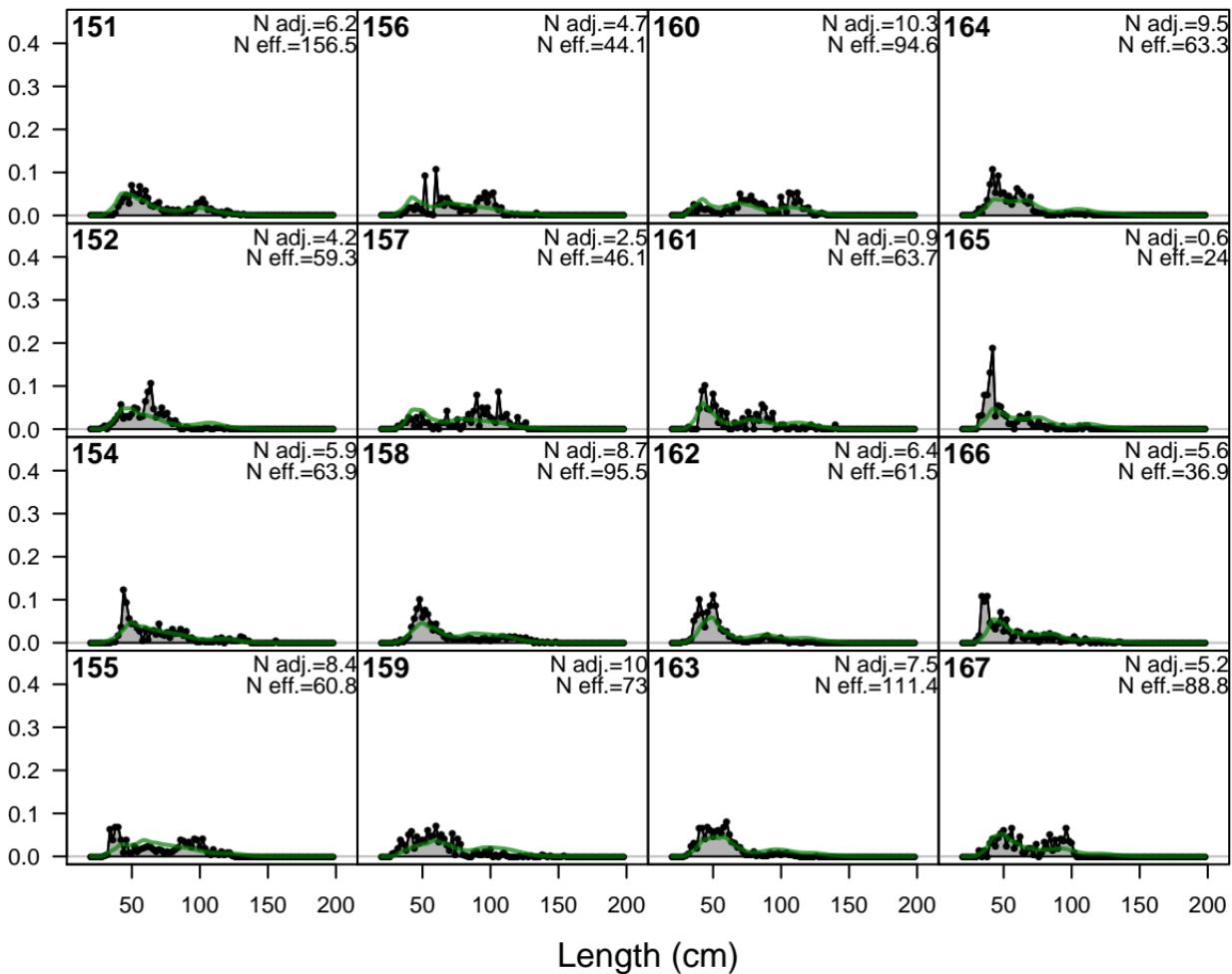
Proportion



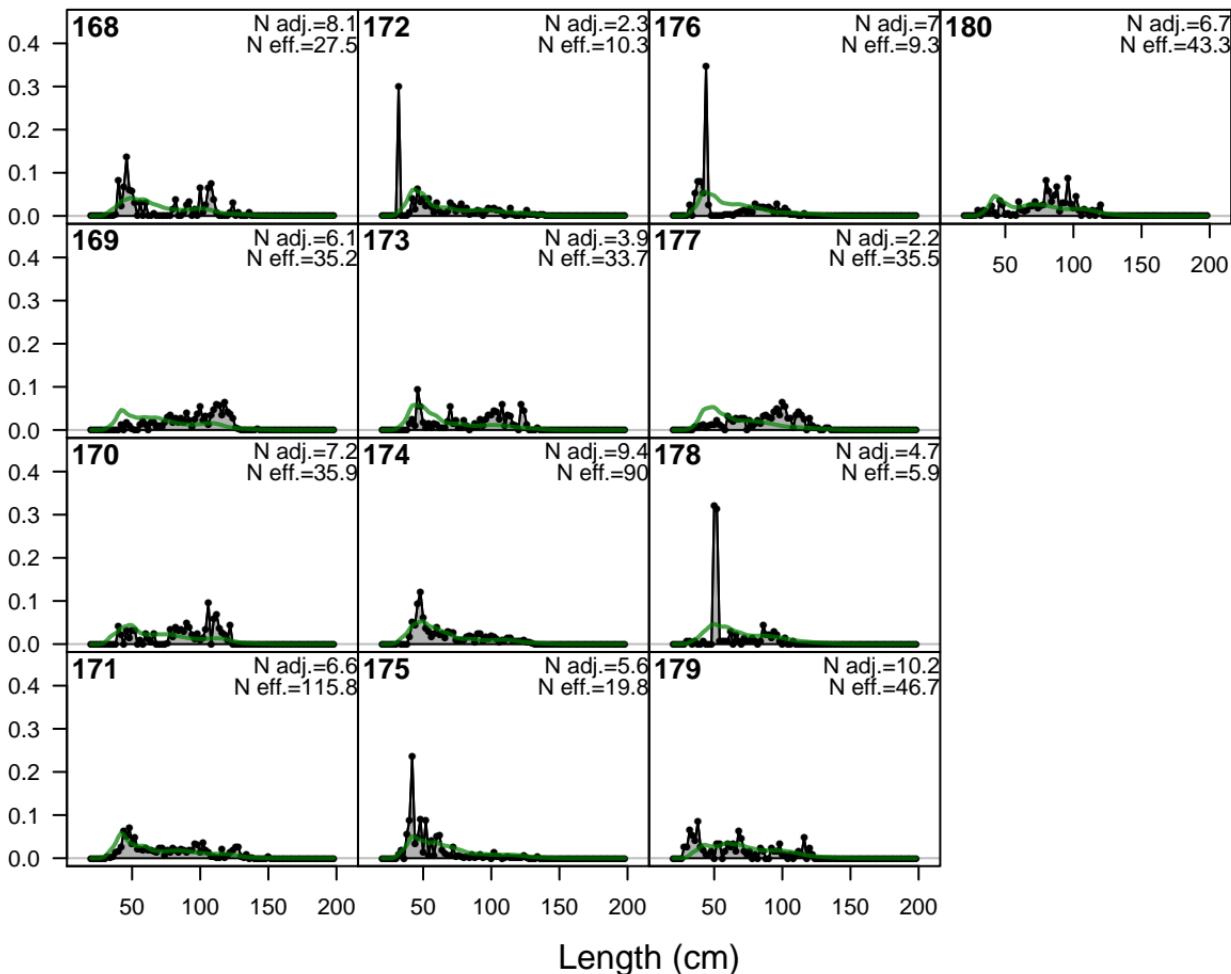
Proportion

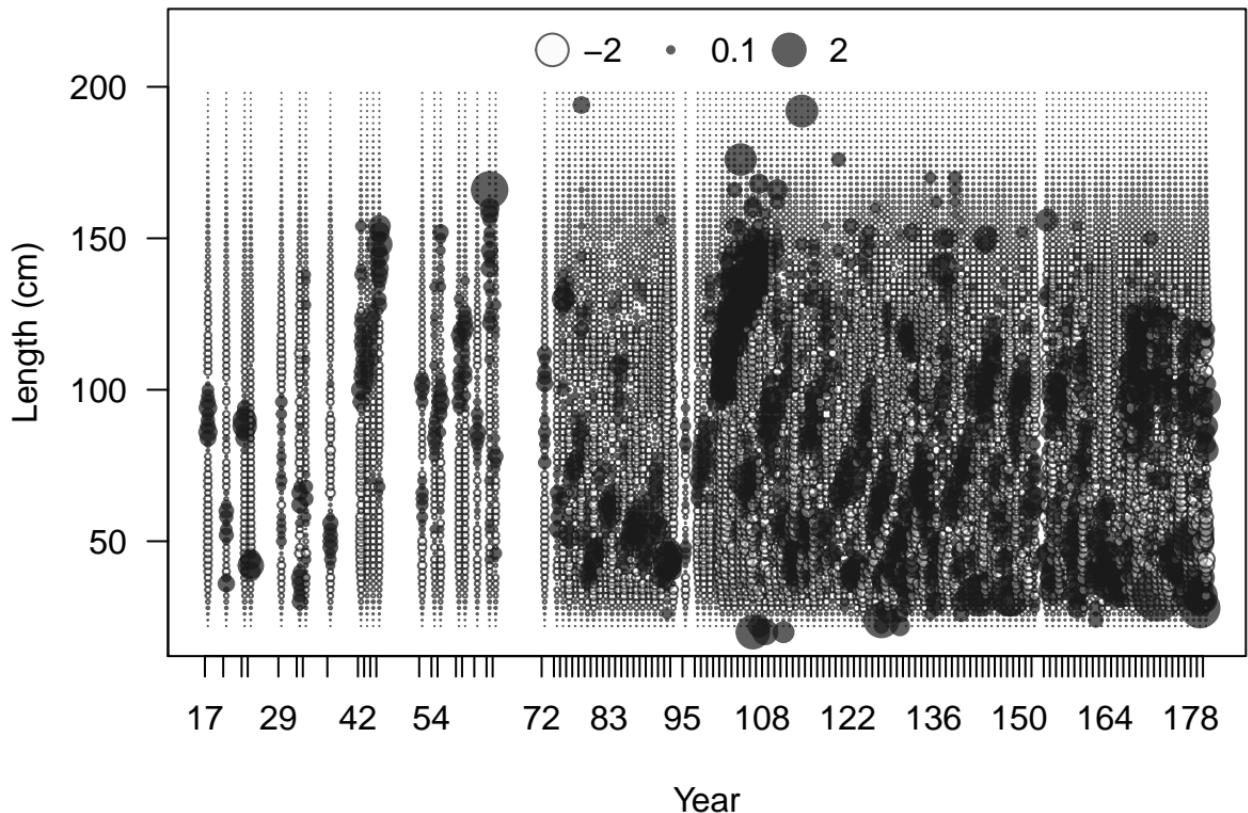


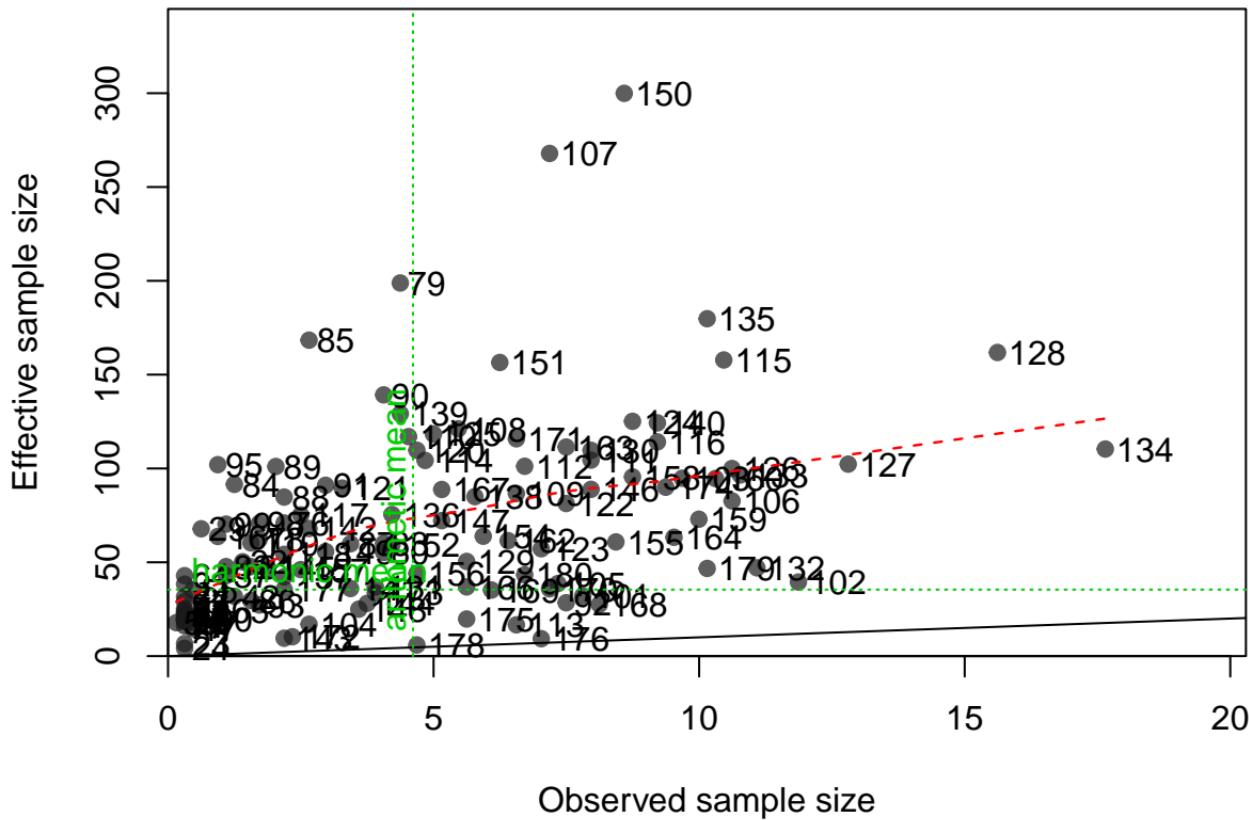
Proportion



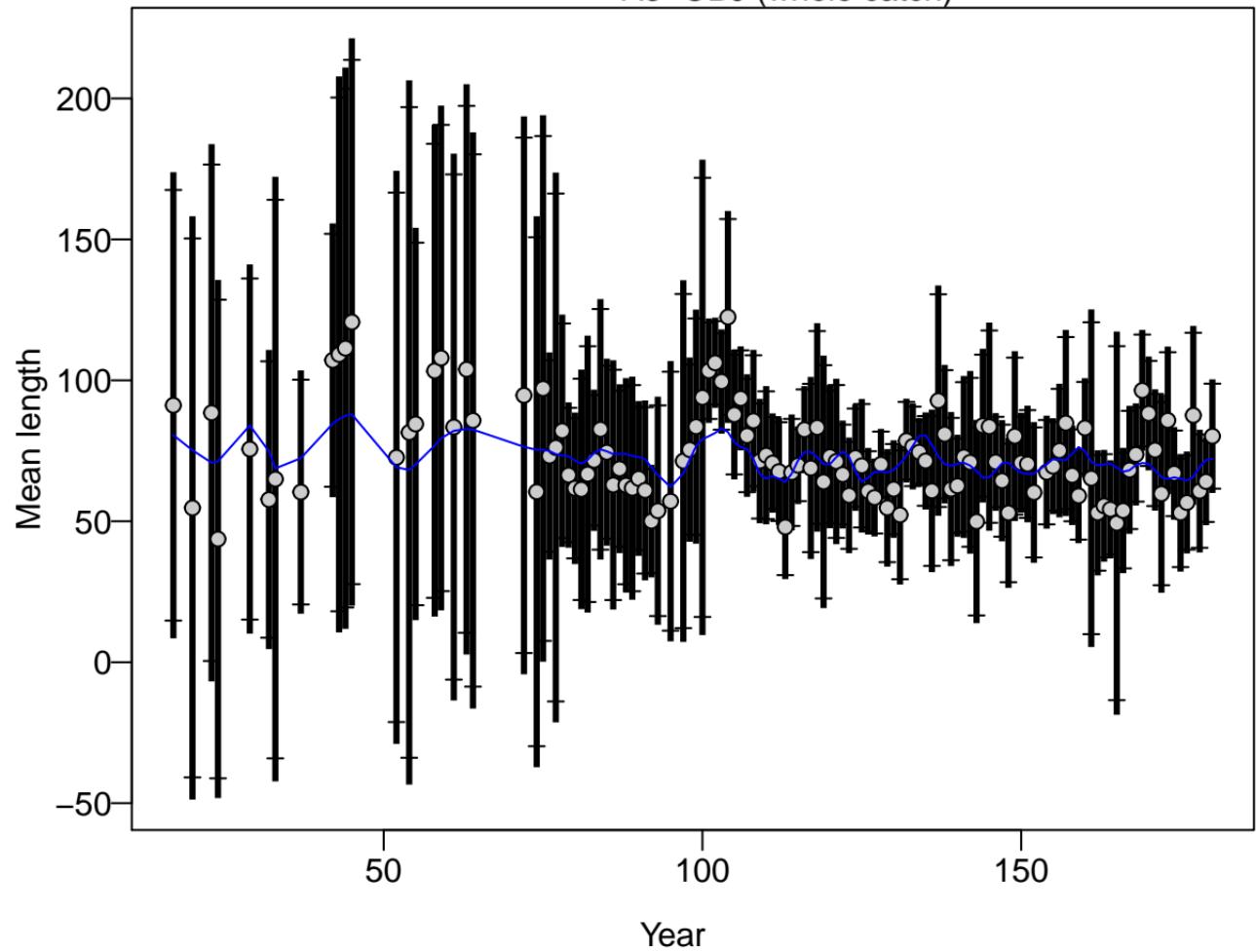
Proportion



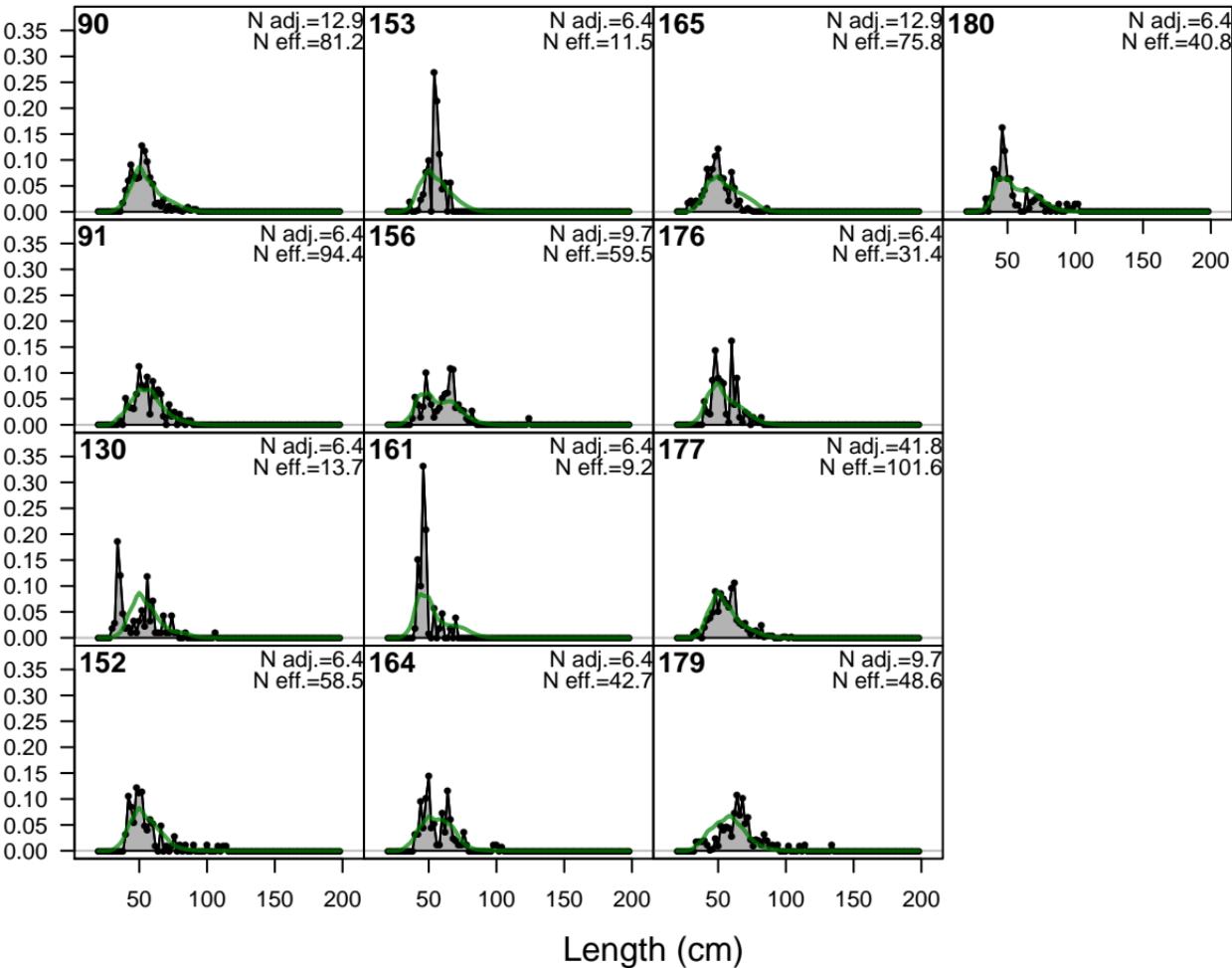


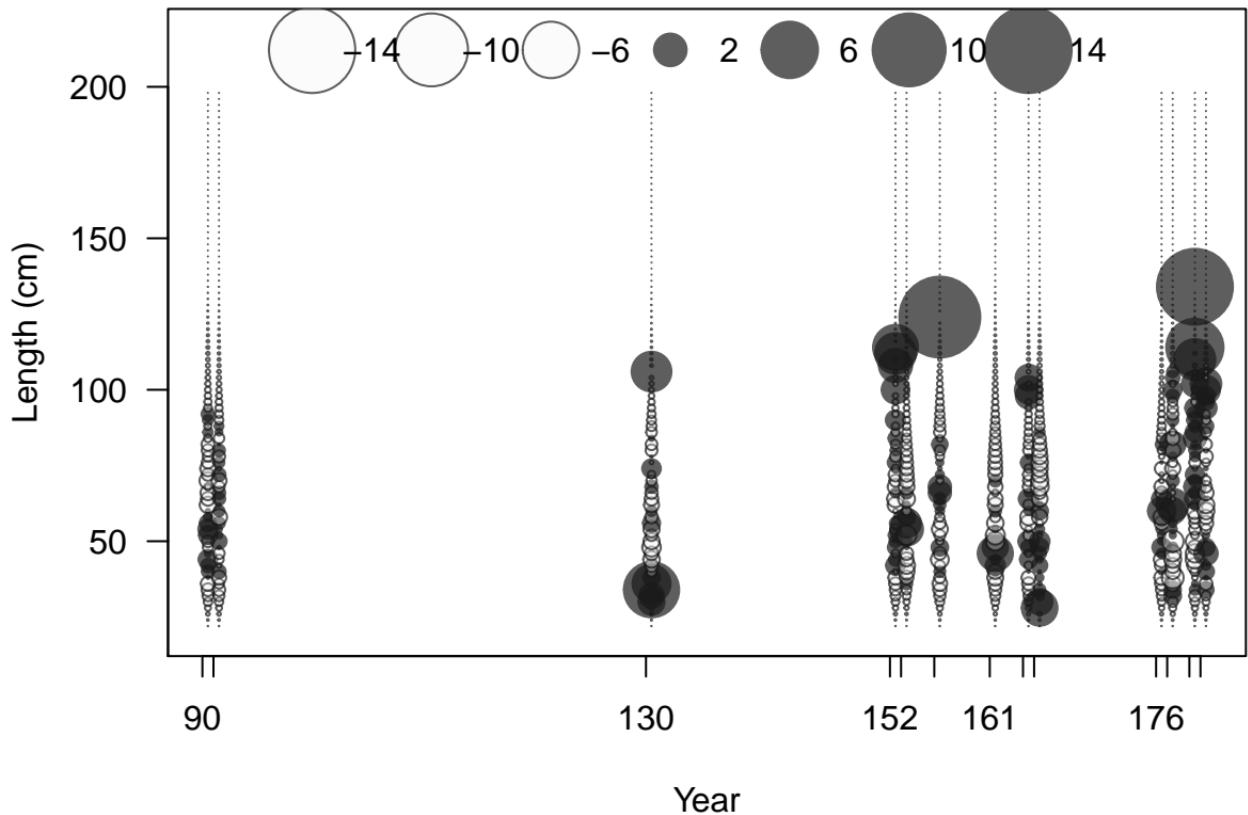


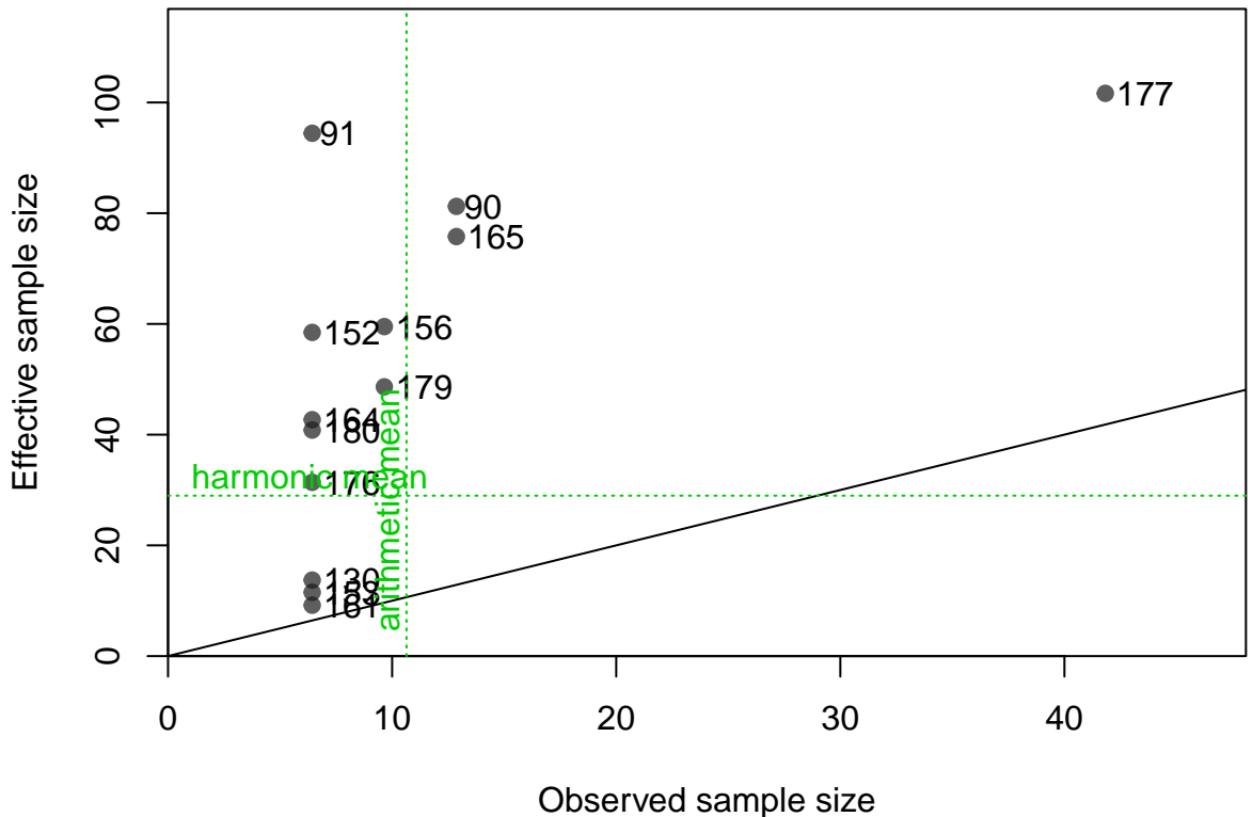
### A3-OBJ (whole catch)



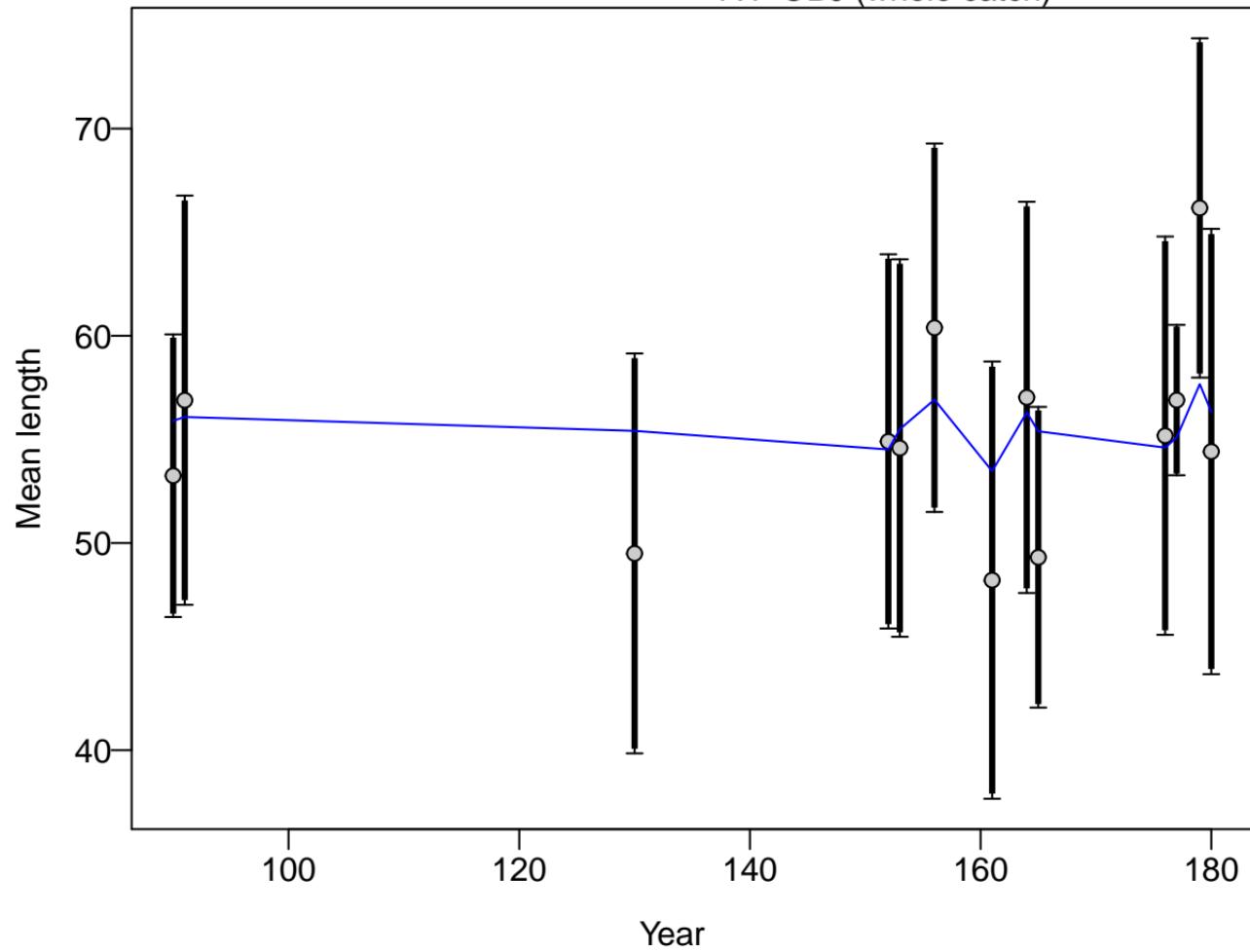
Proportion



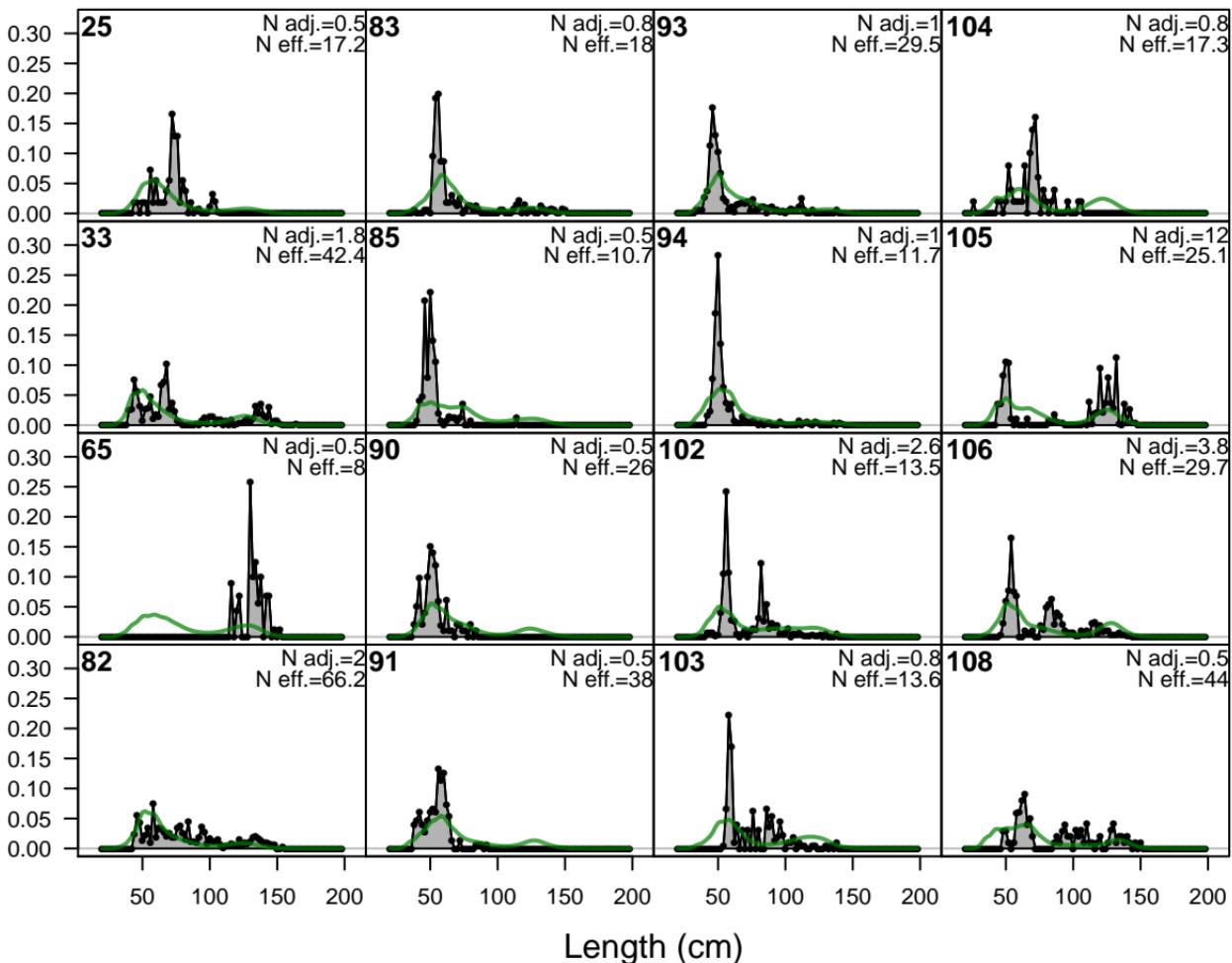




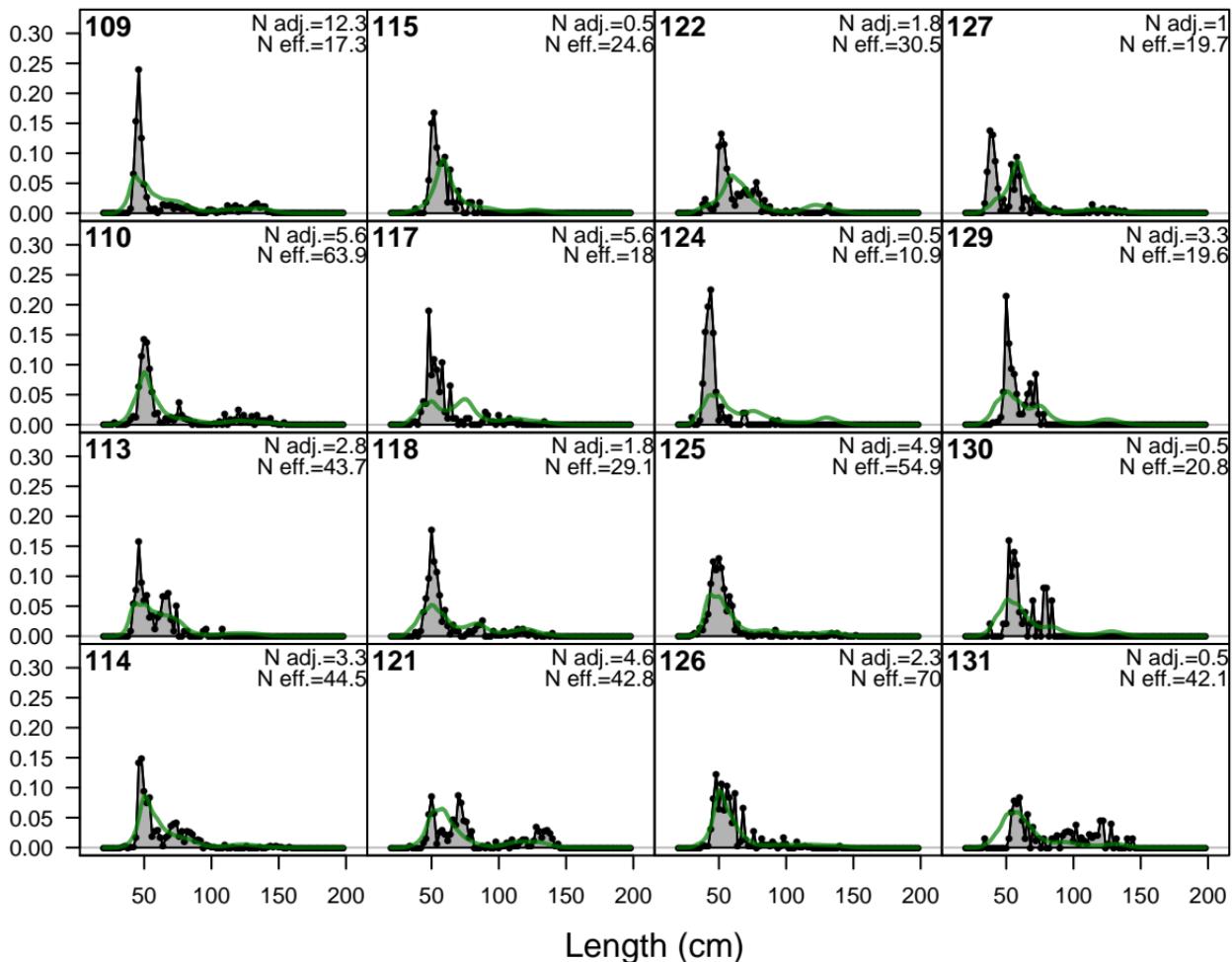
# A4-OBJ (whole catch)



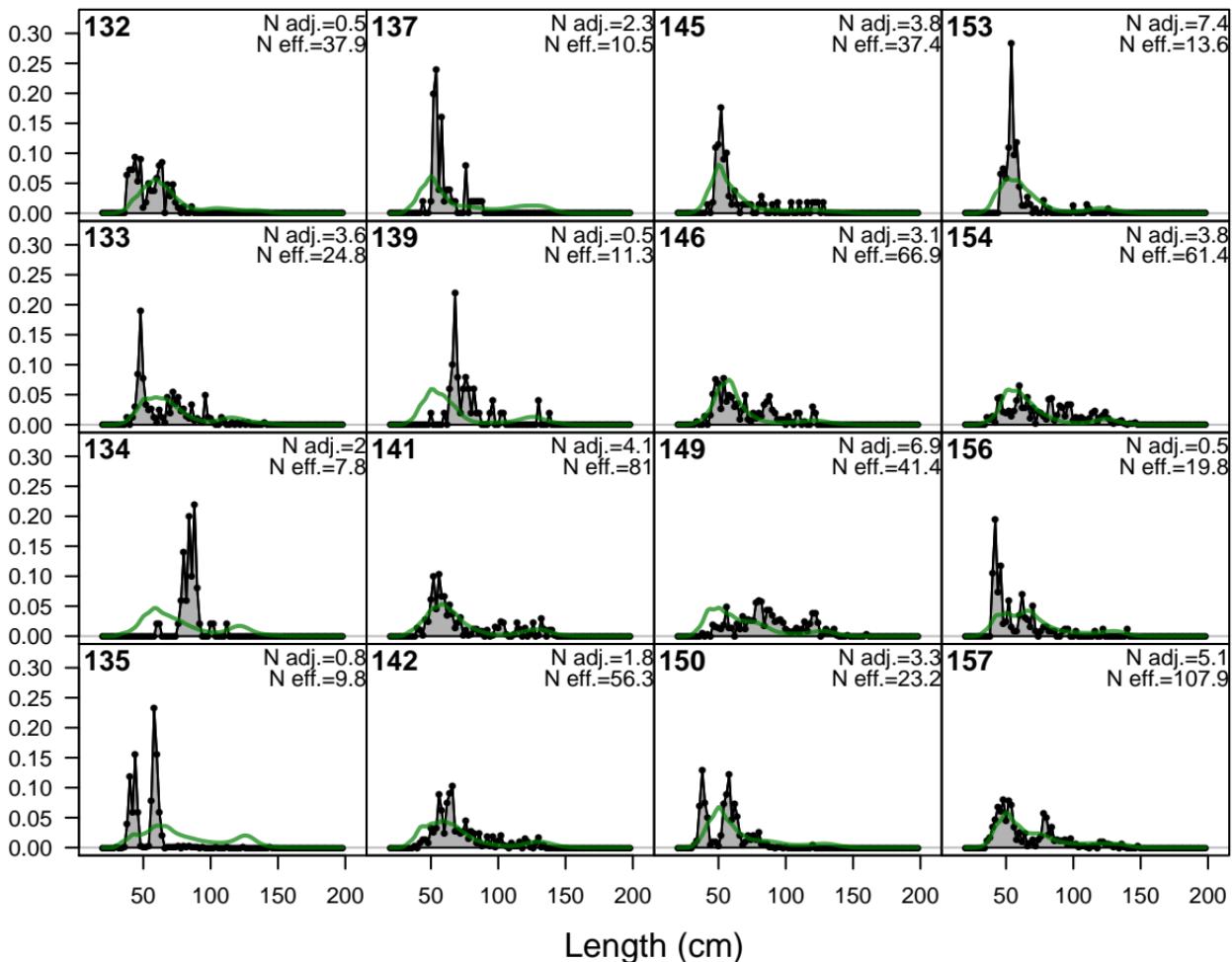
Proportion



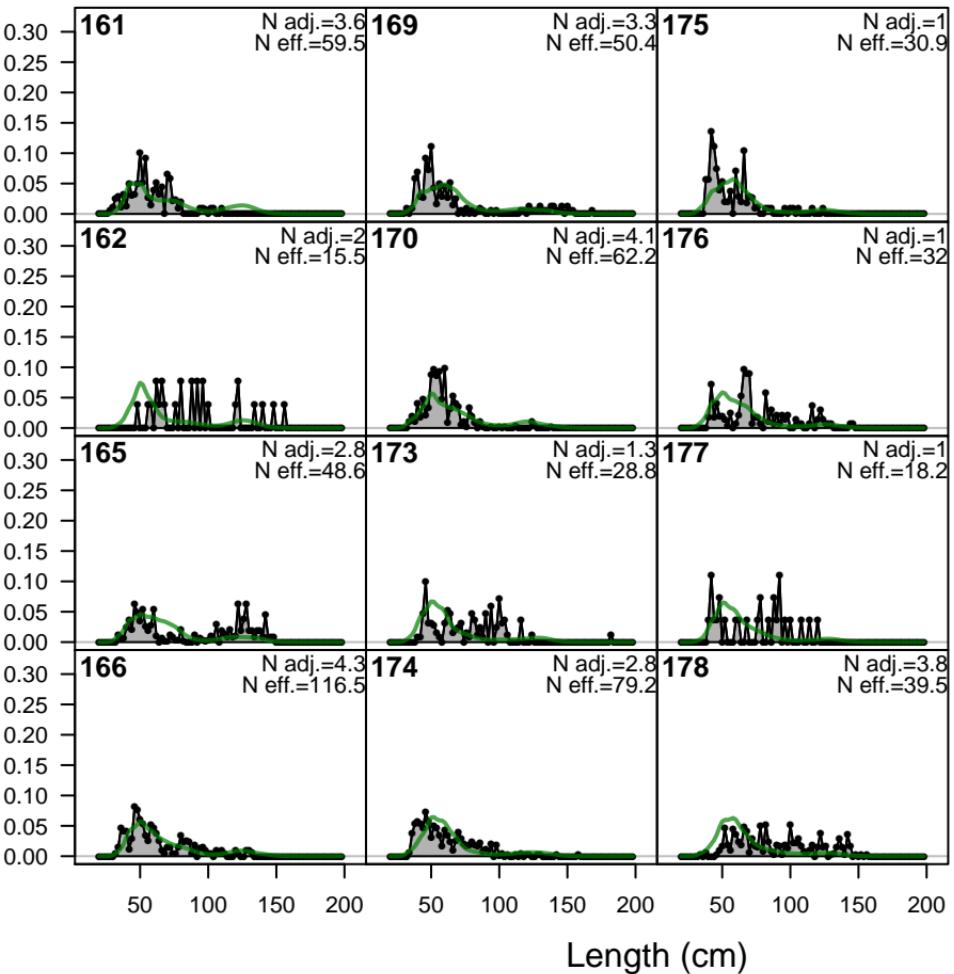
Proportion

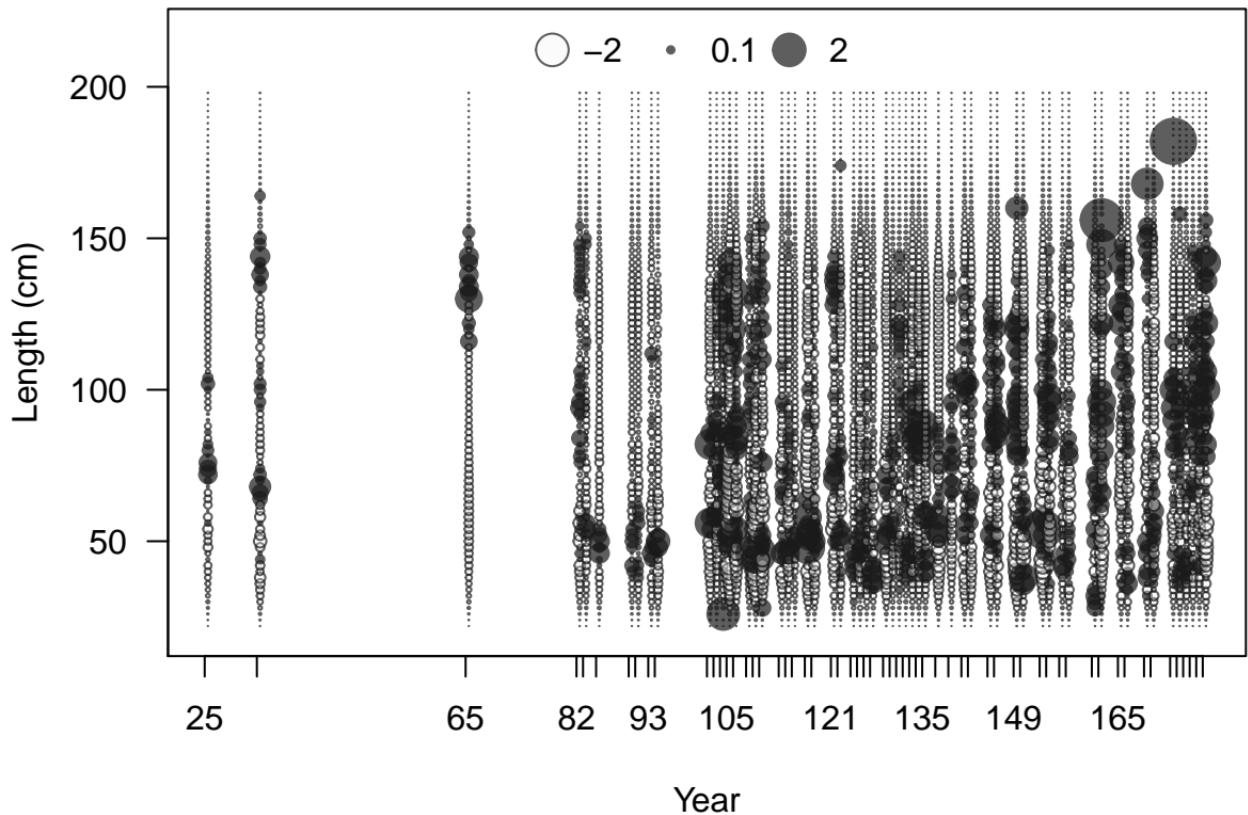


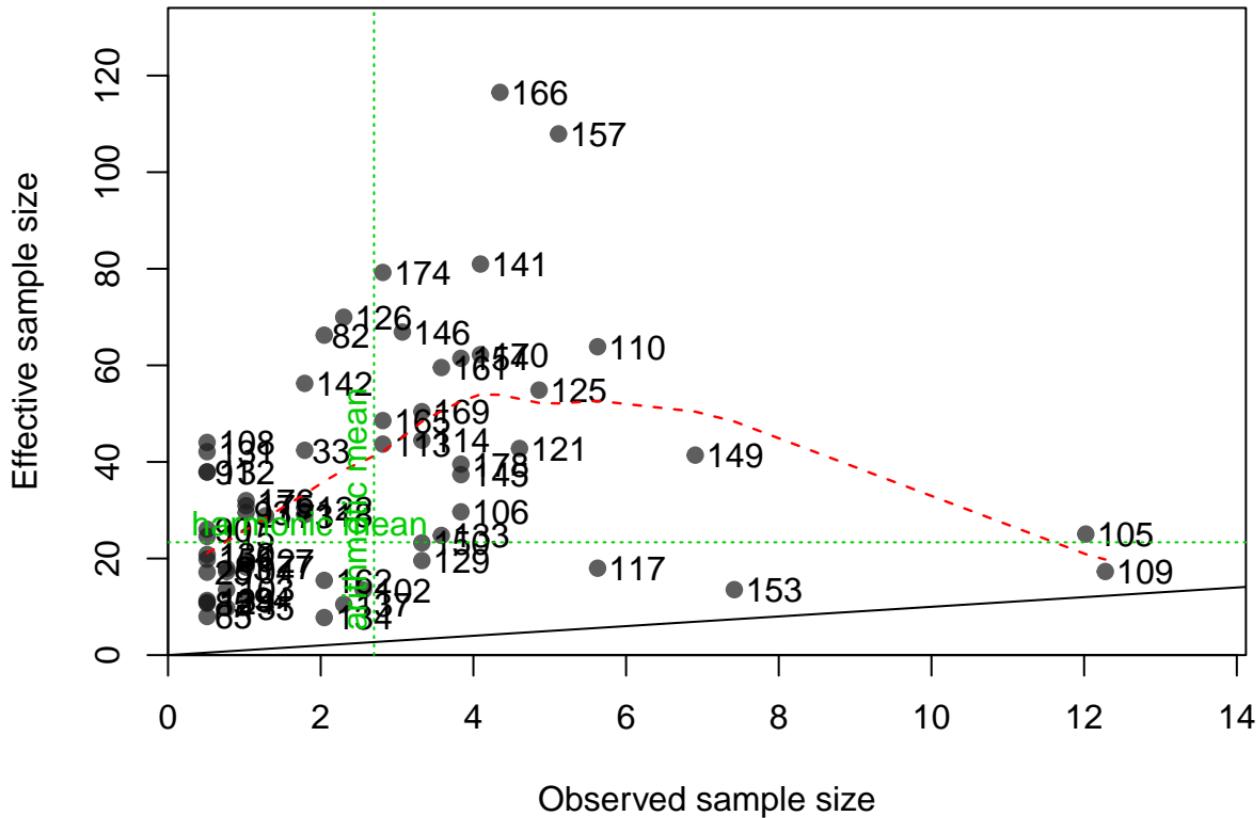
Proportion



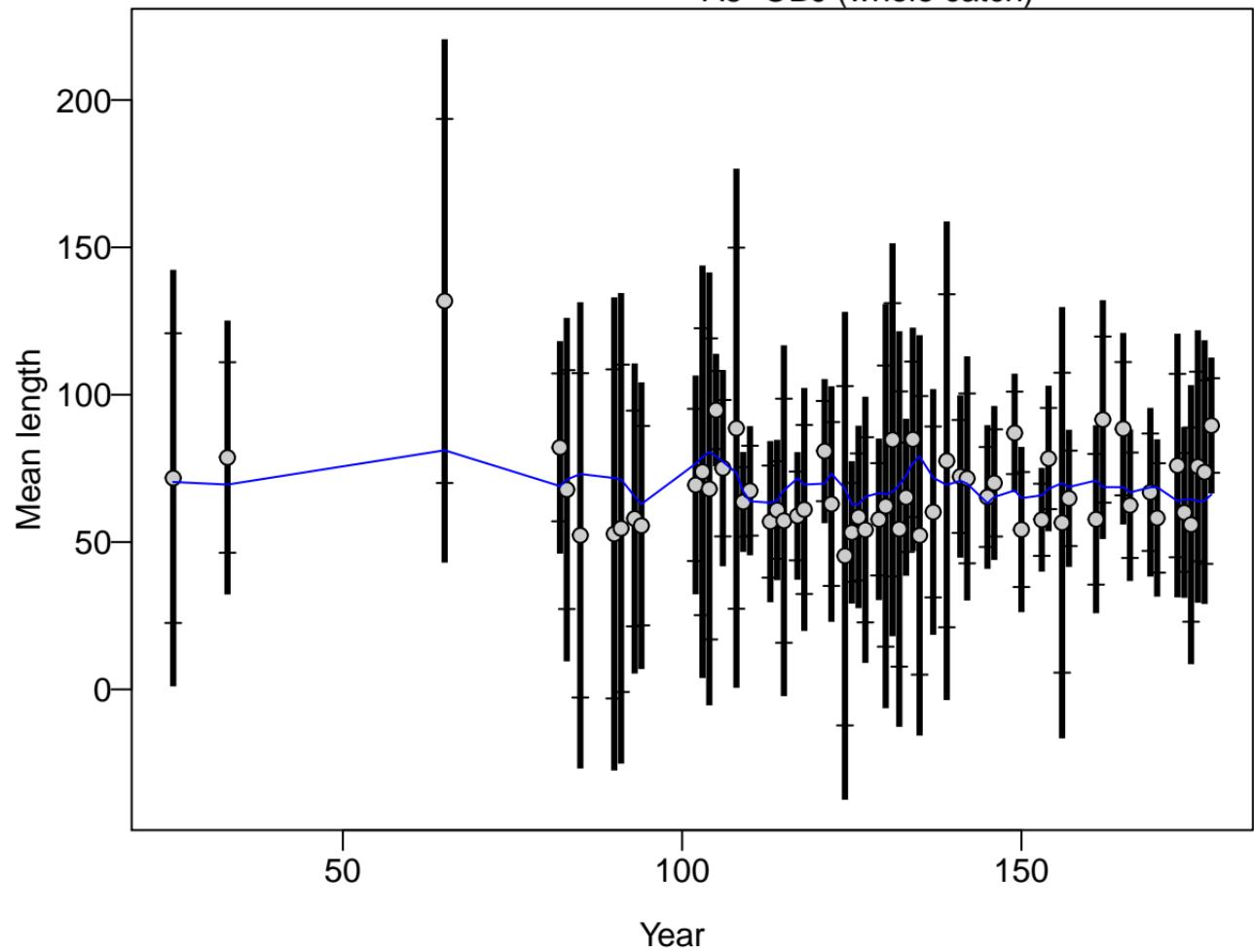
Proportion



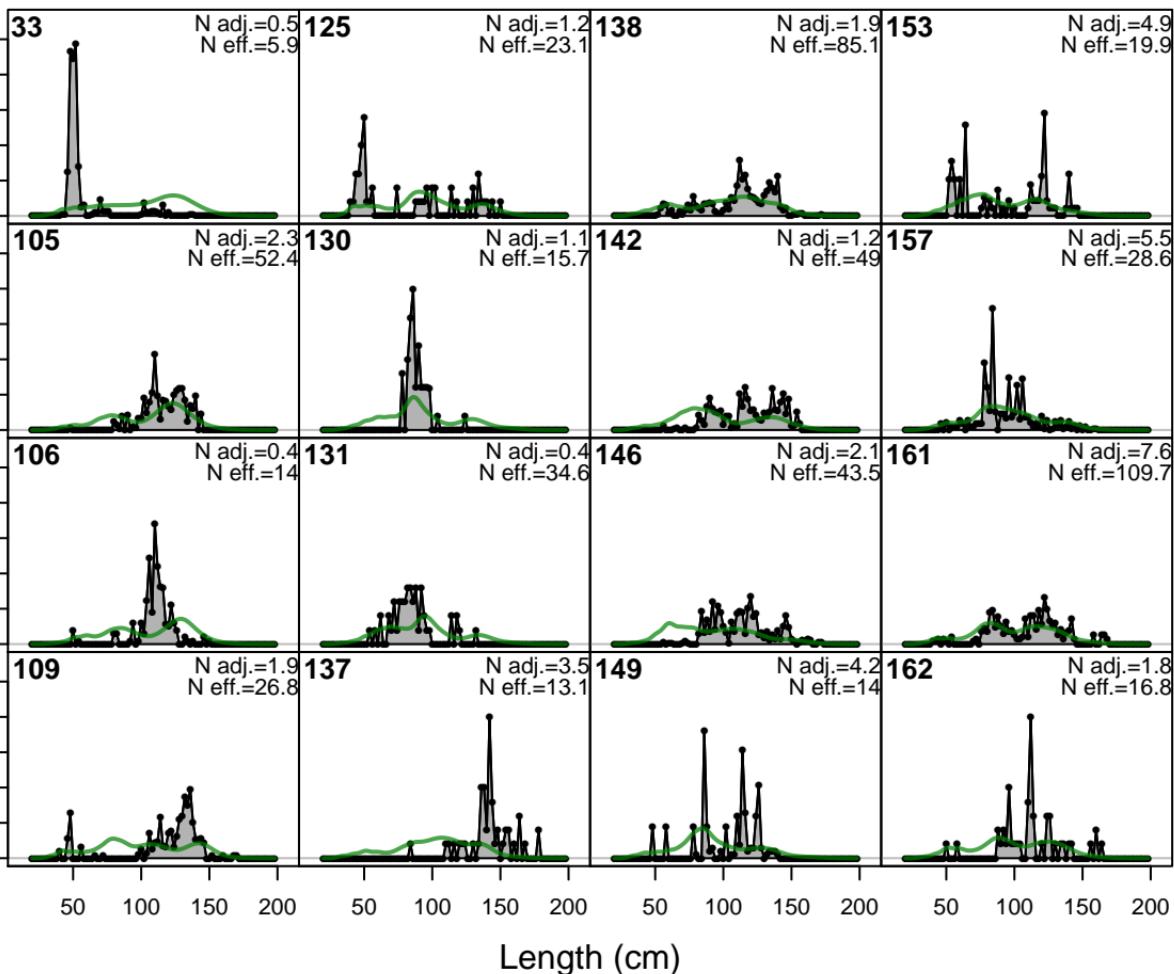




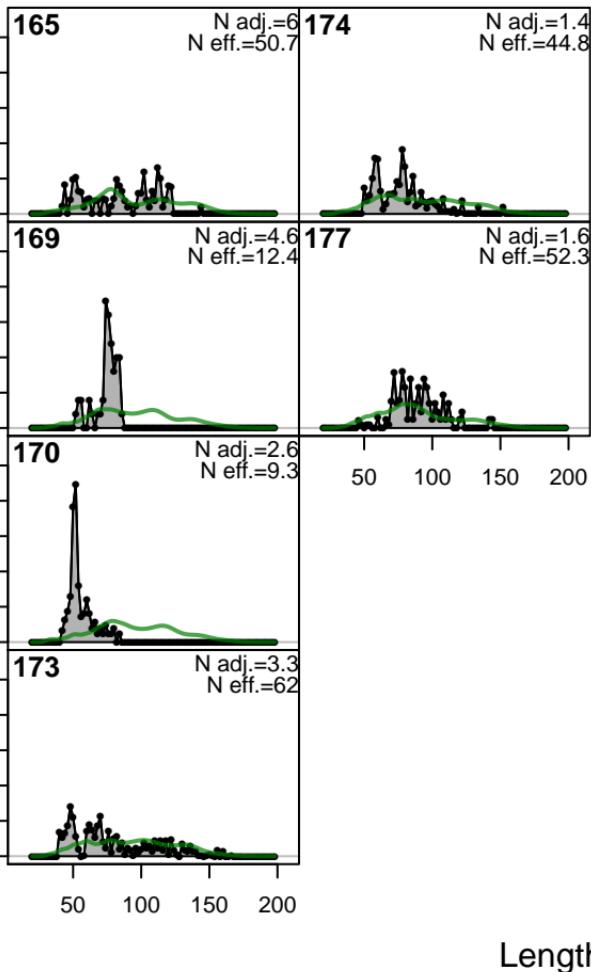
# A5-OBJ (whole catch)

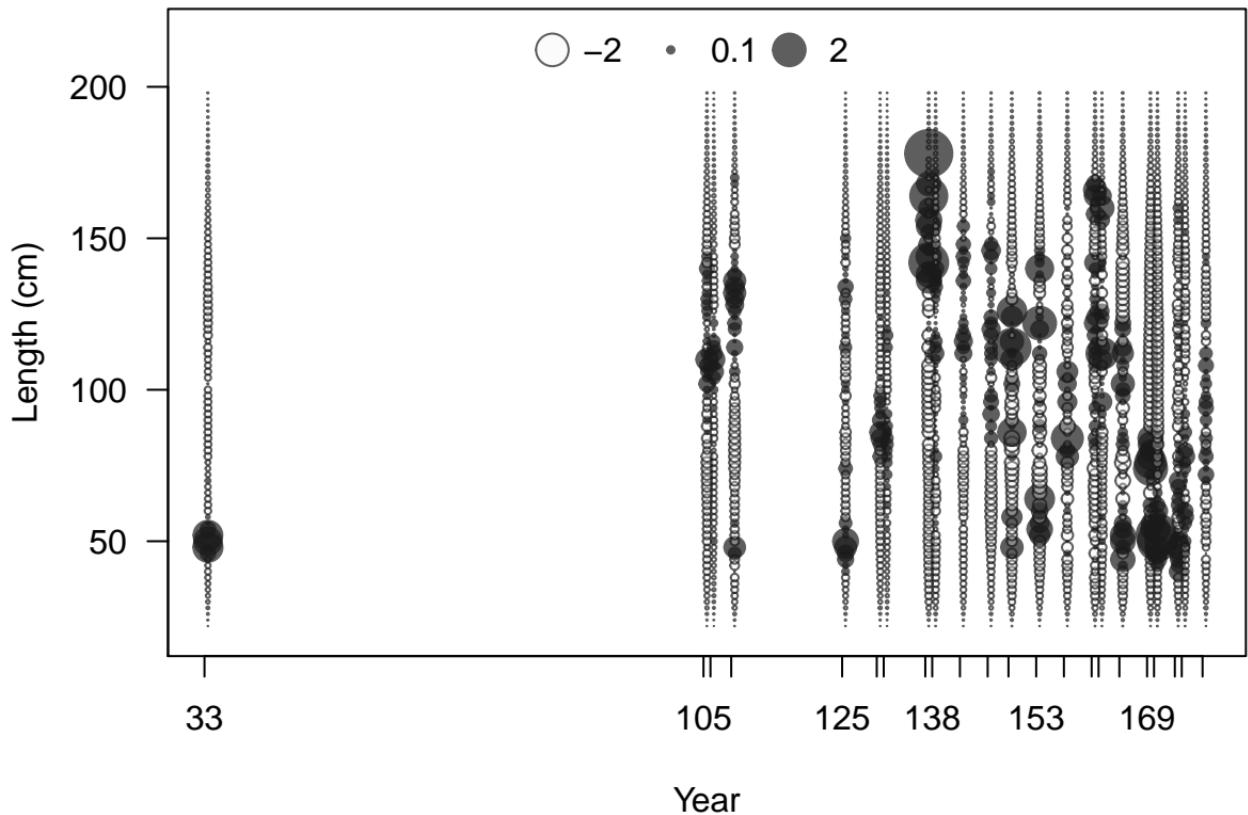


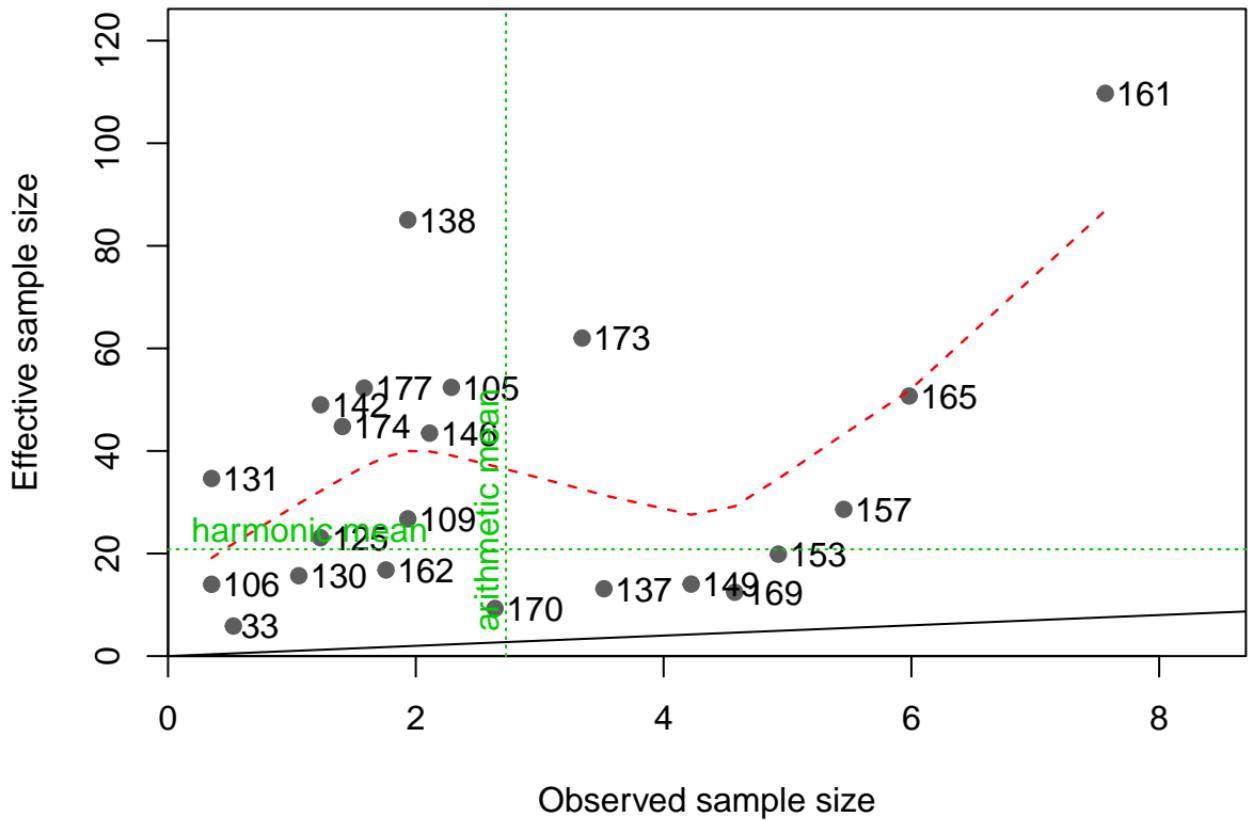
Proportion



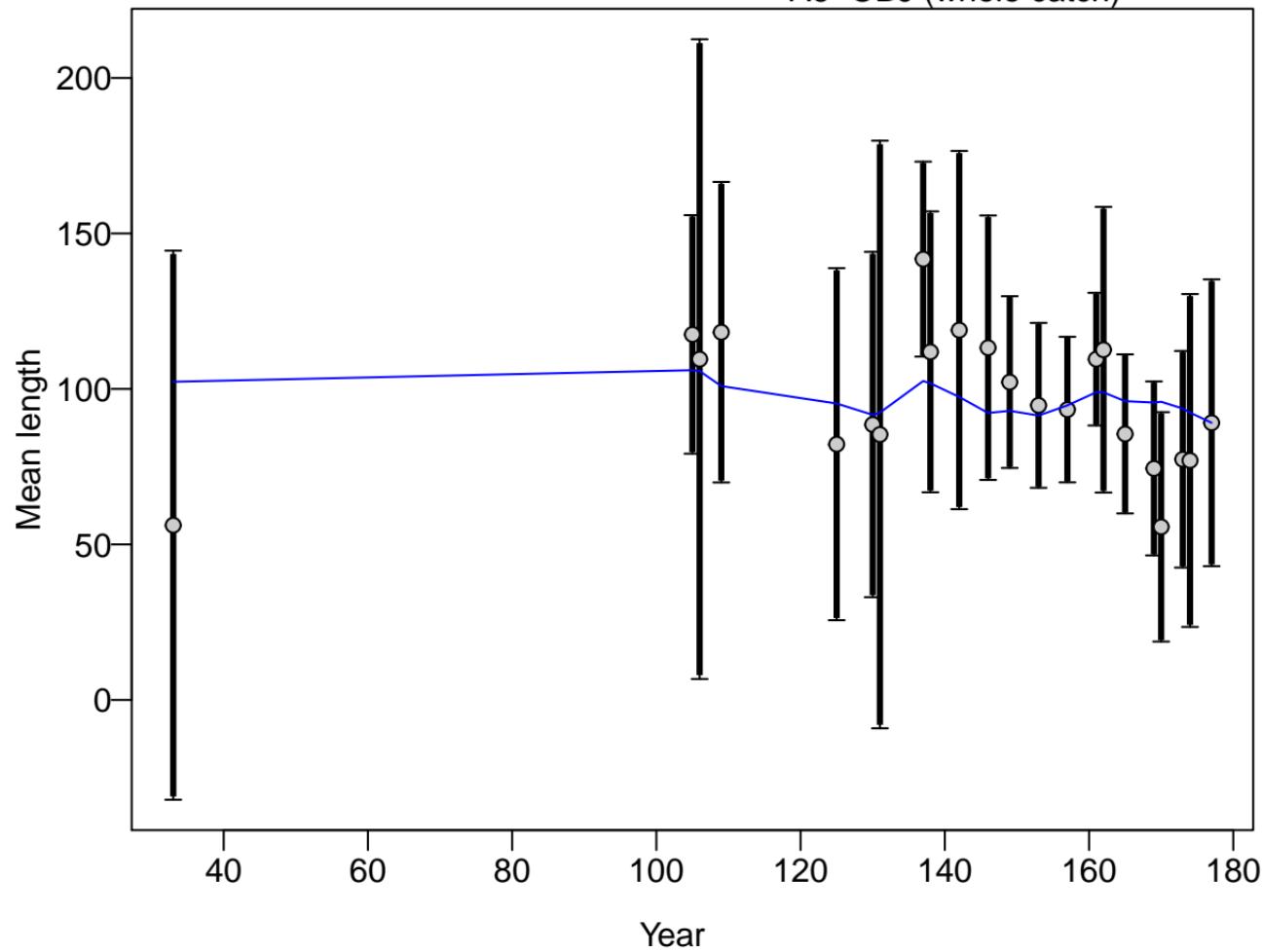
Proportion



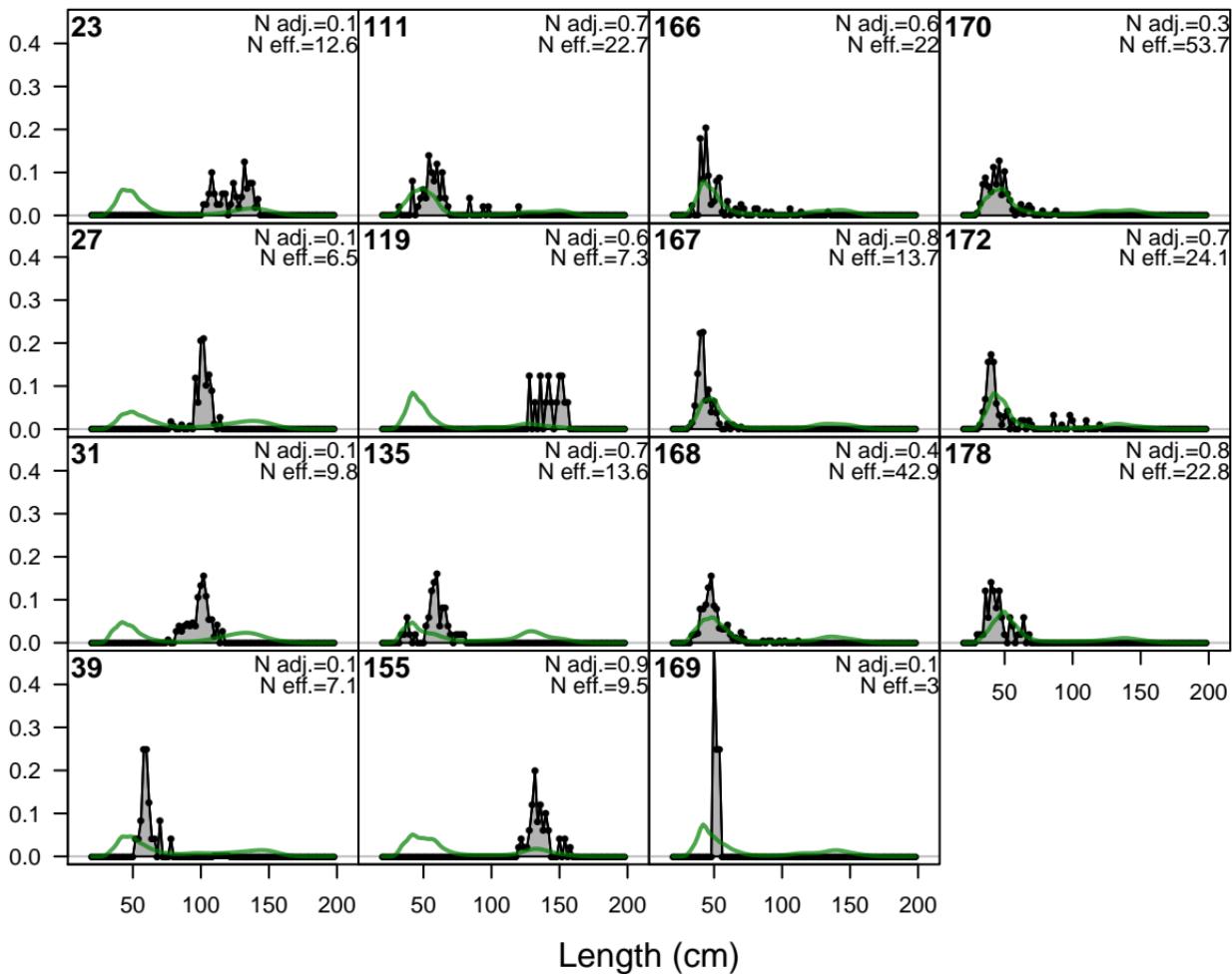


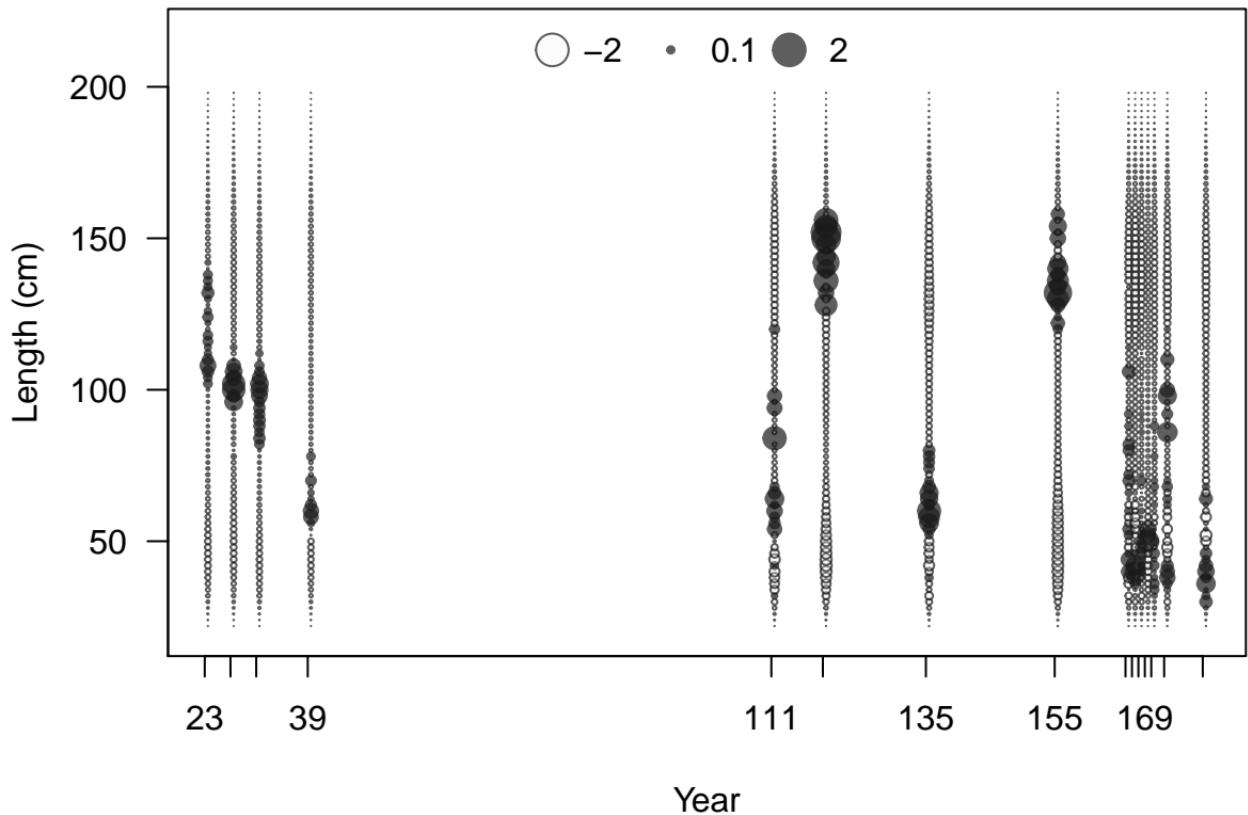


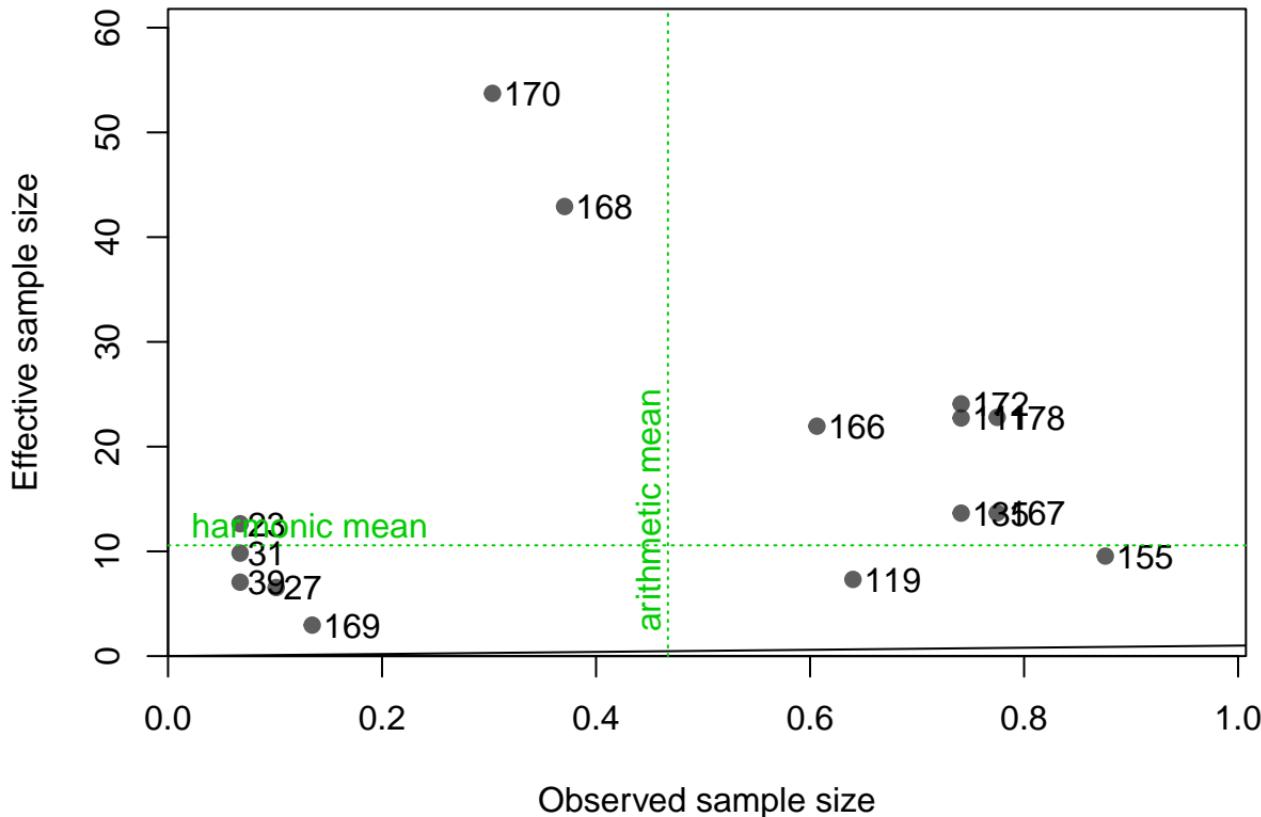
### A6-OBJ (whole catch)



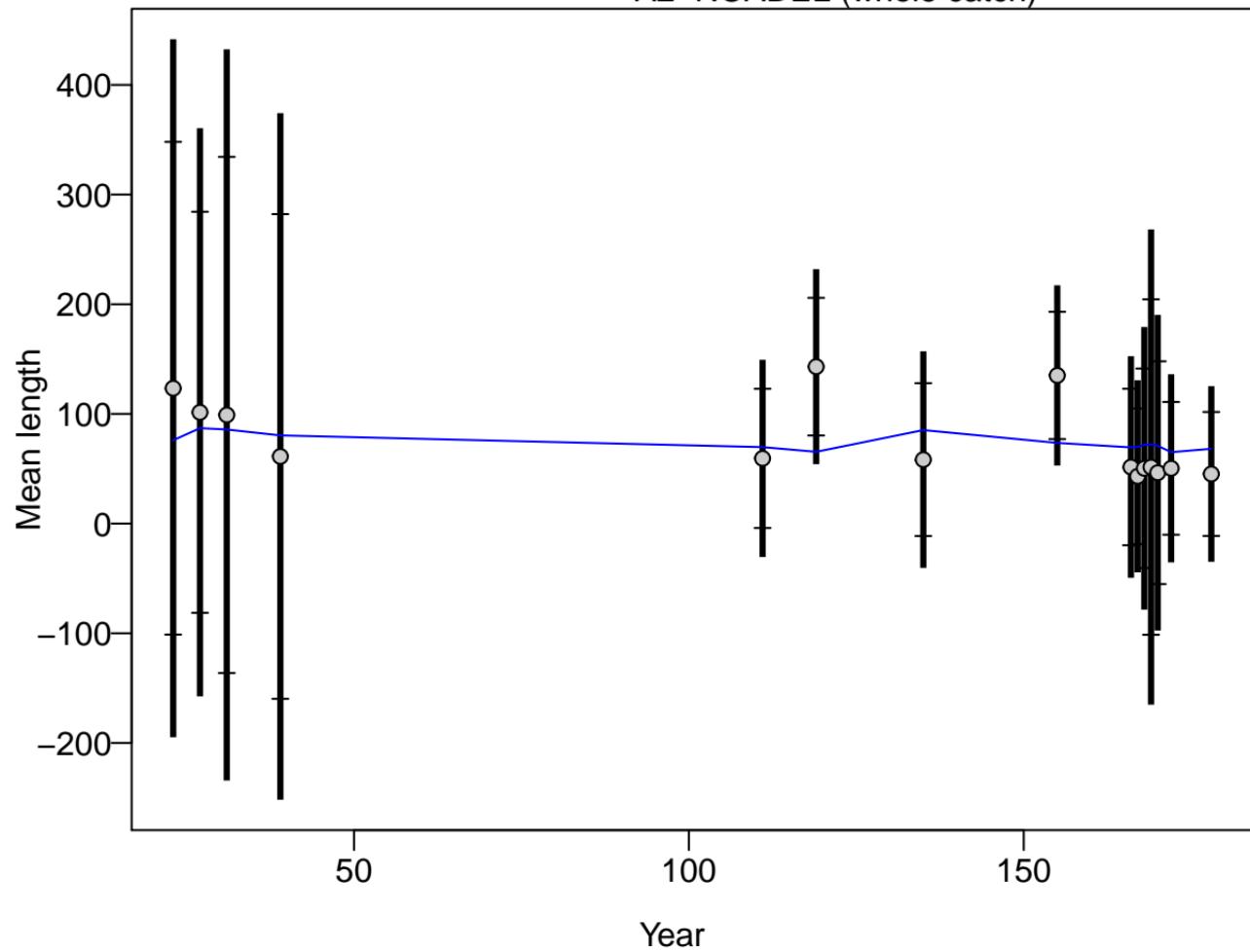
Proportion



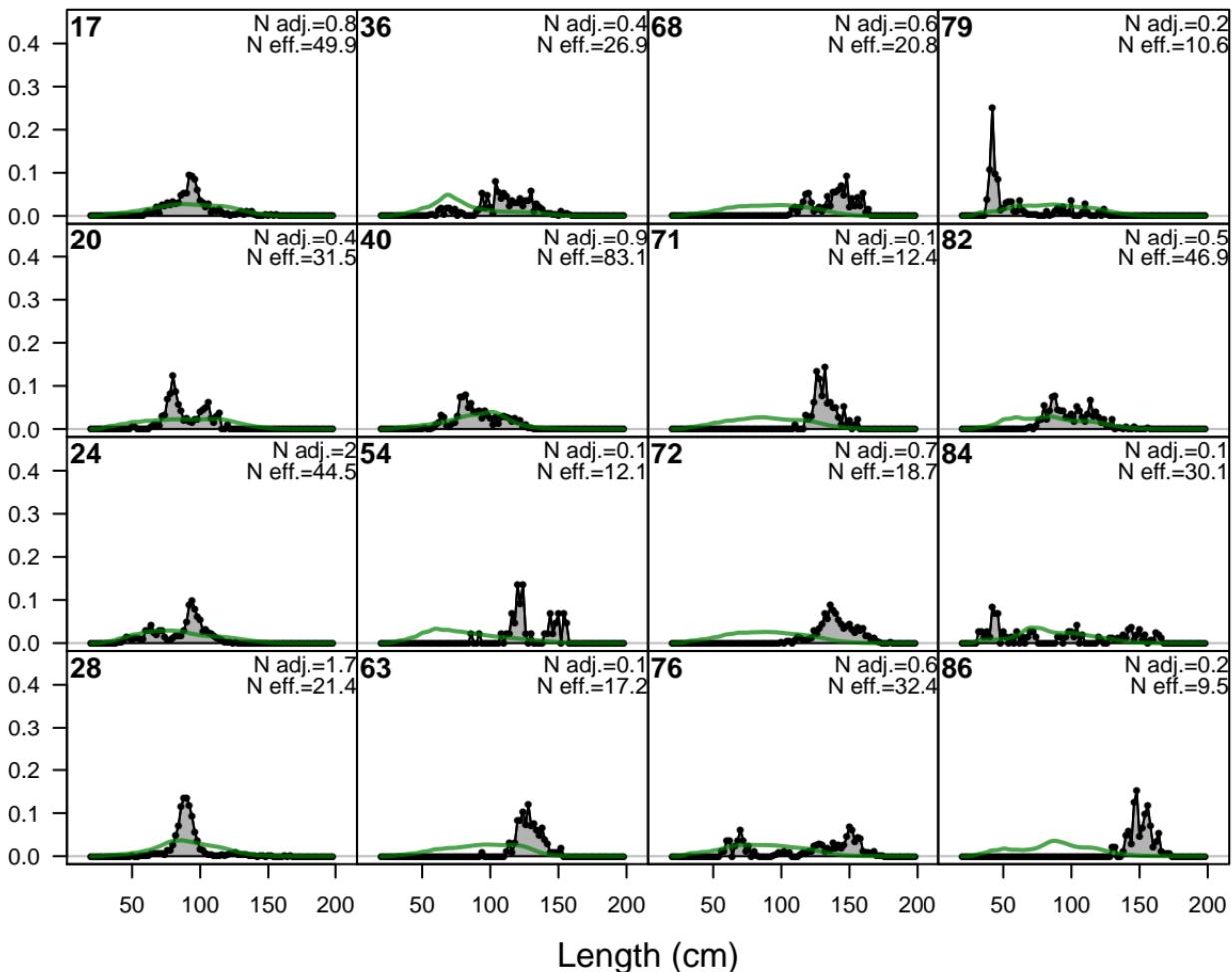




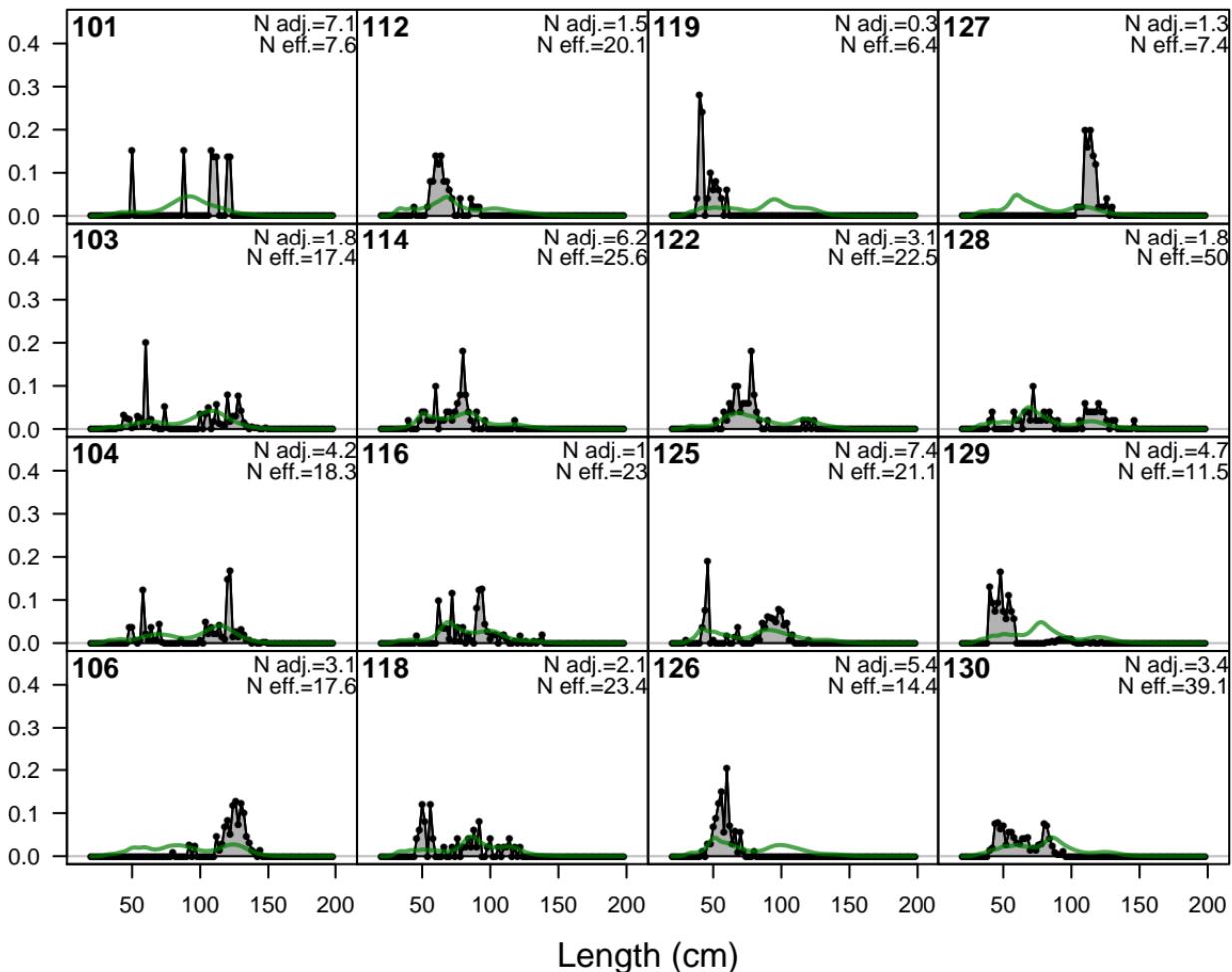
# A2–NOADEL (whole catch)



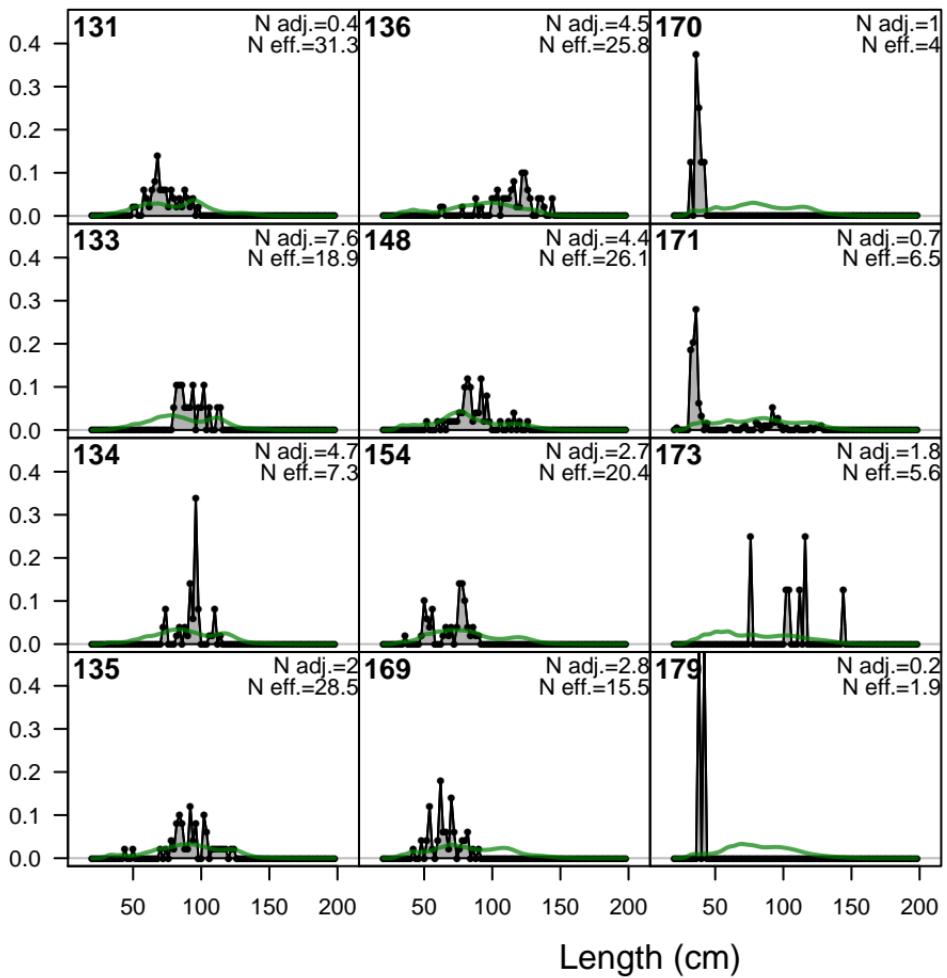
Proportion

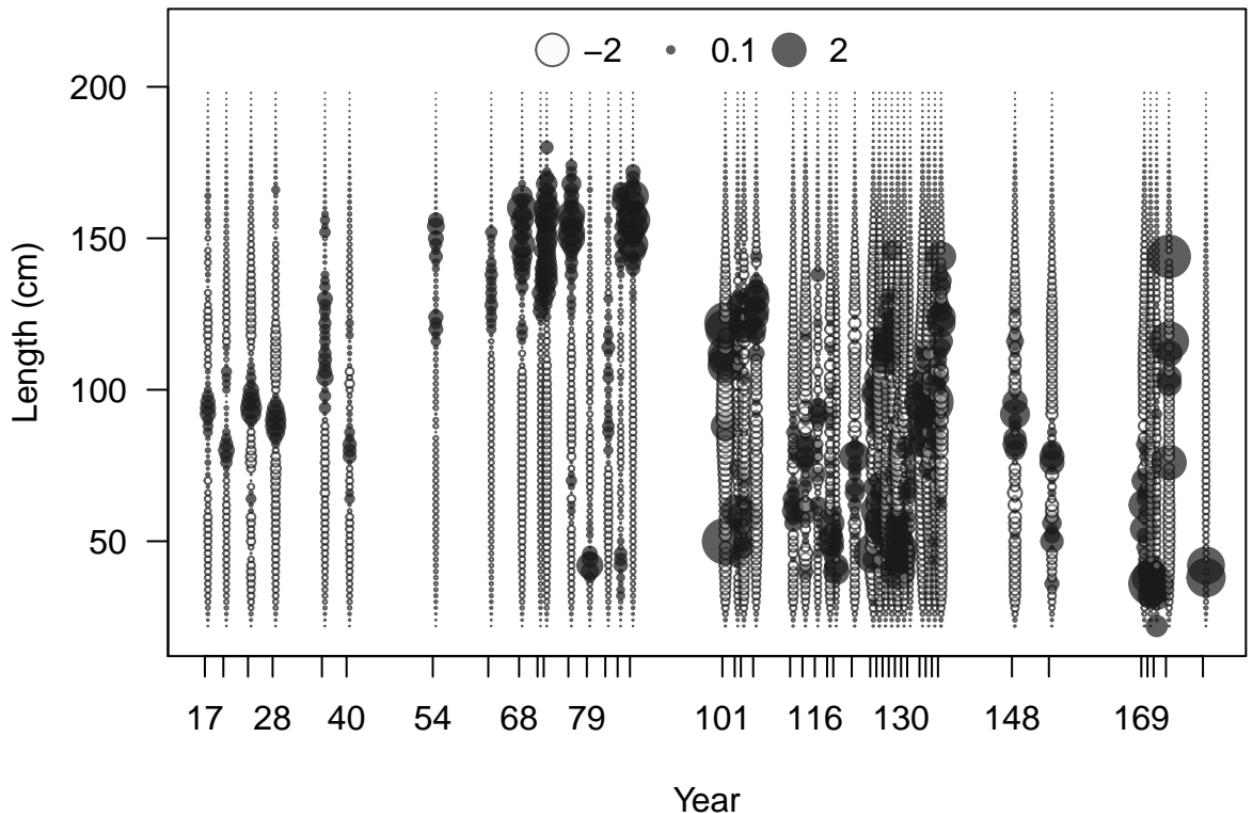


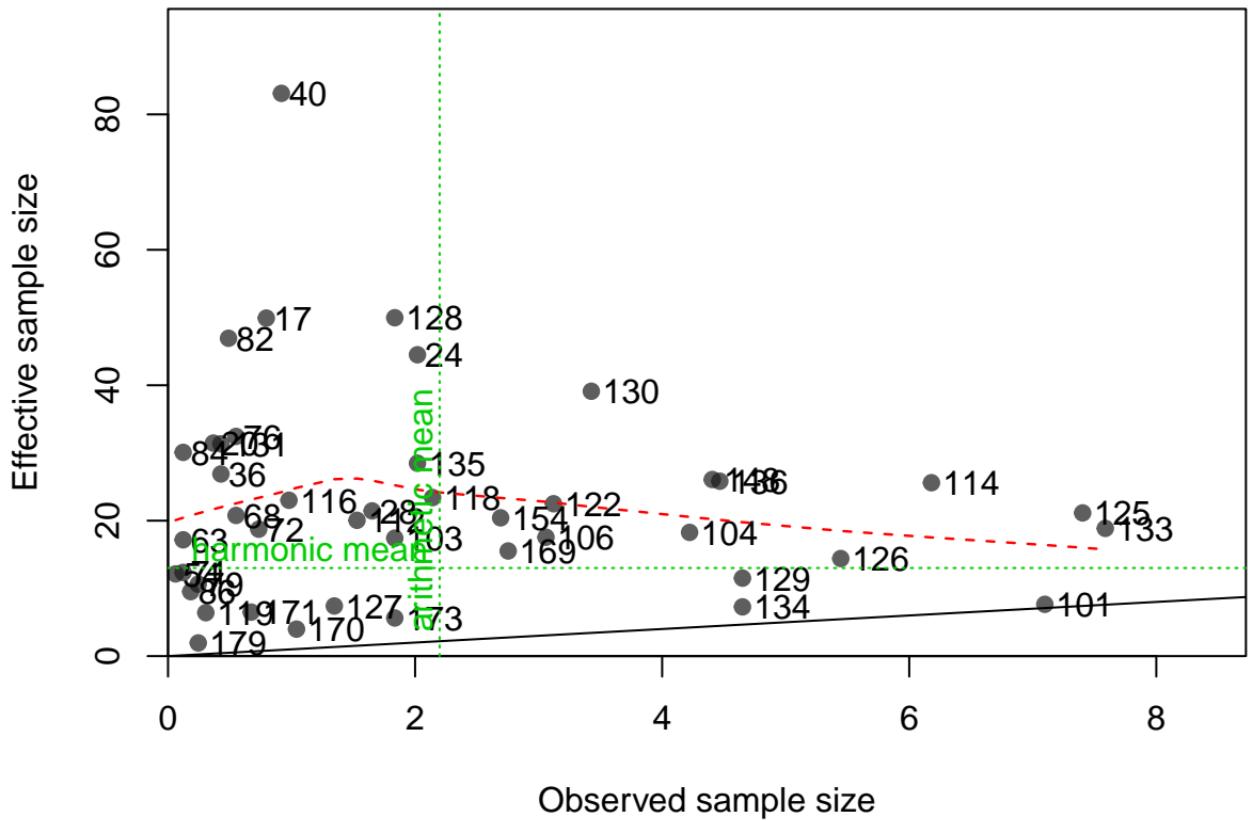
Proportion



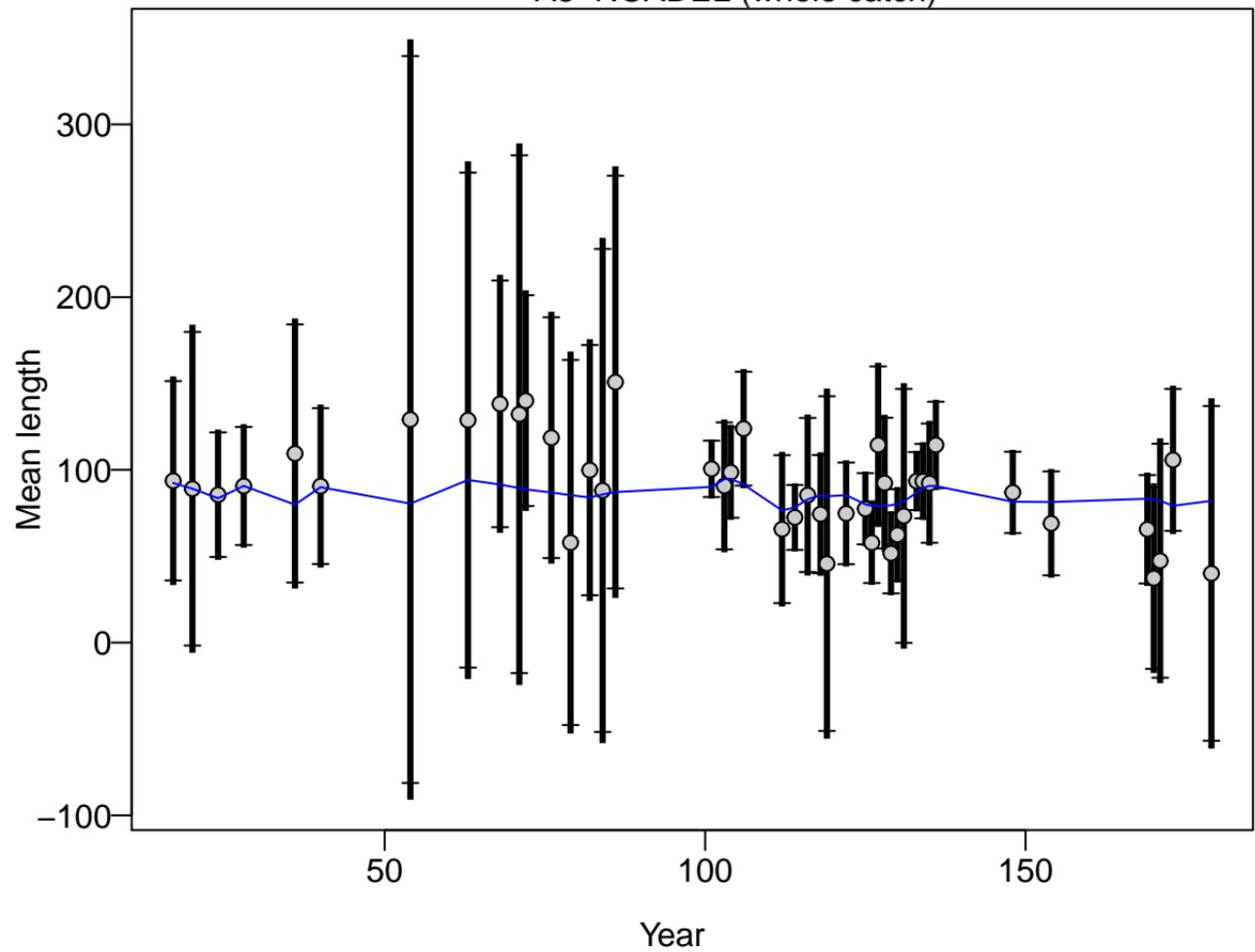
Proportion



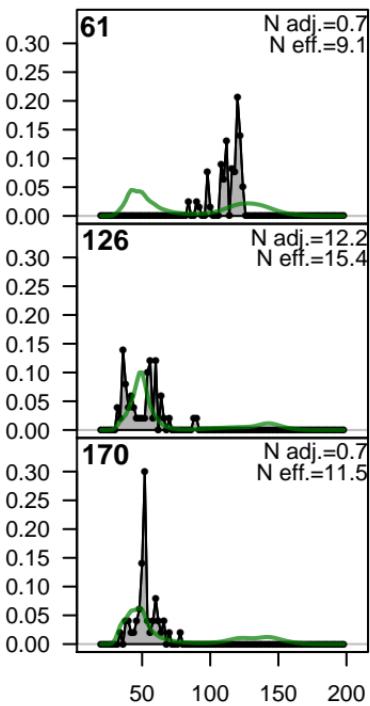


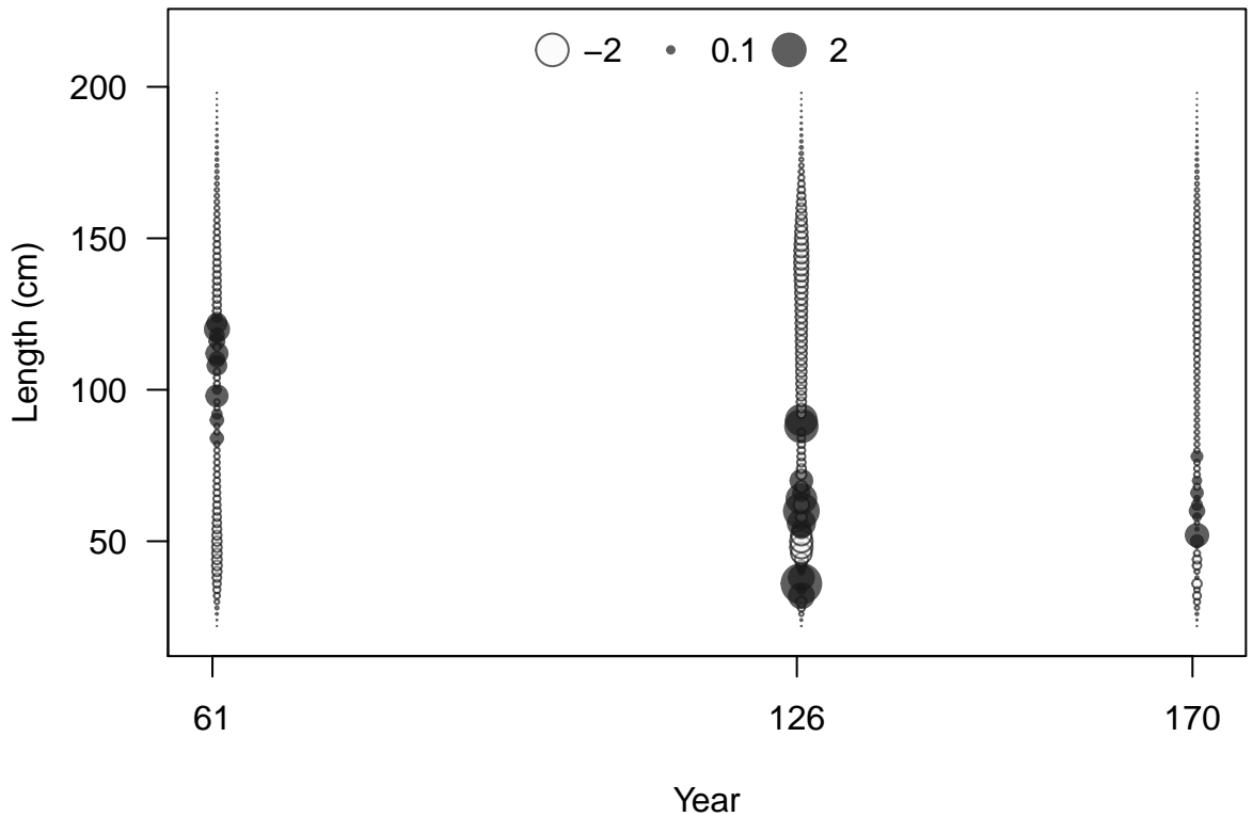


### A3–NOADEL (whole catch)

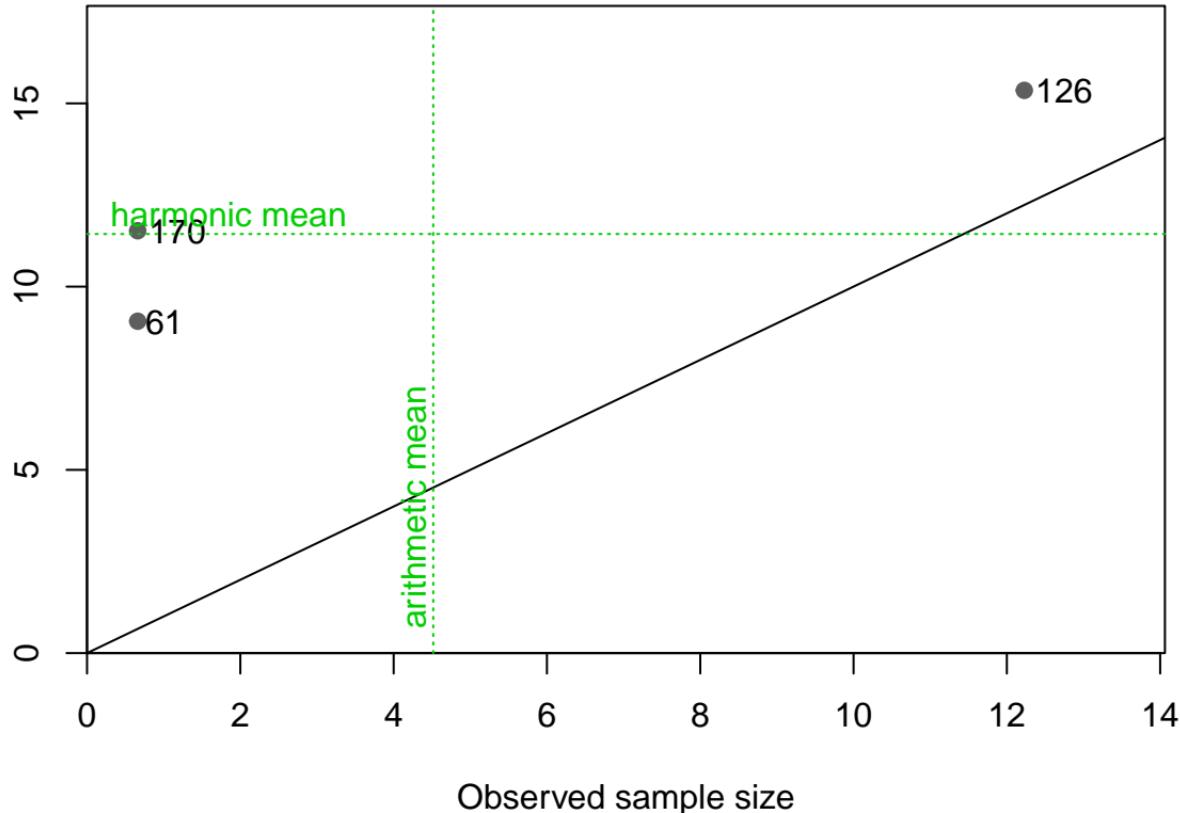


Proportion

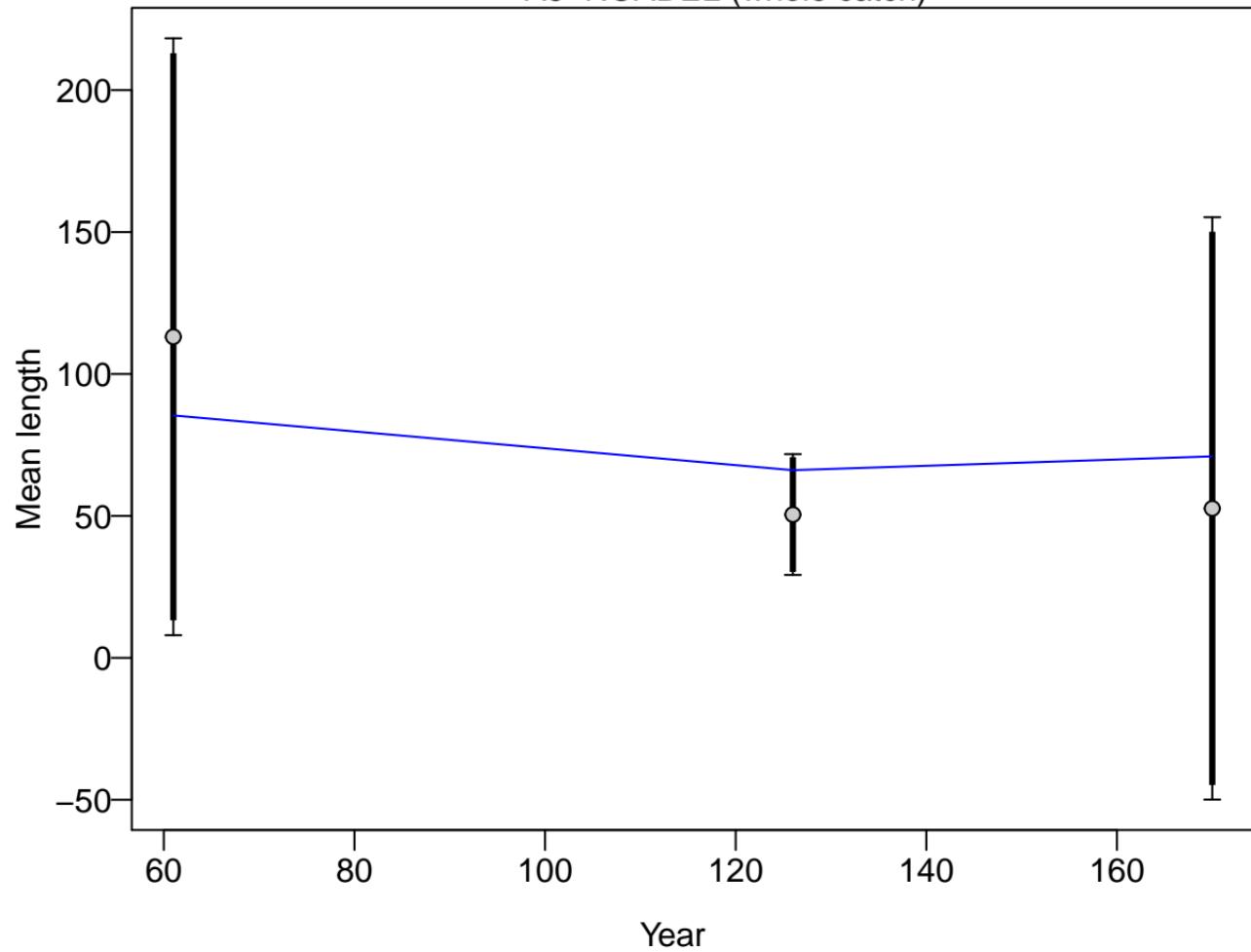




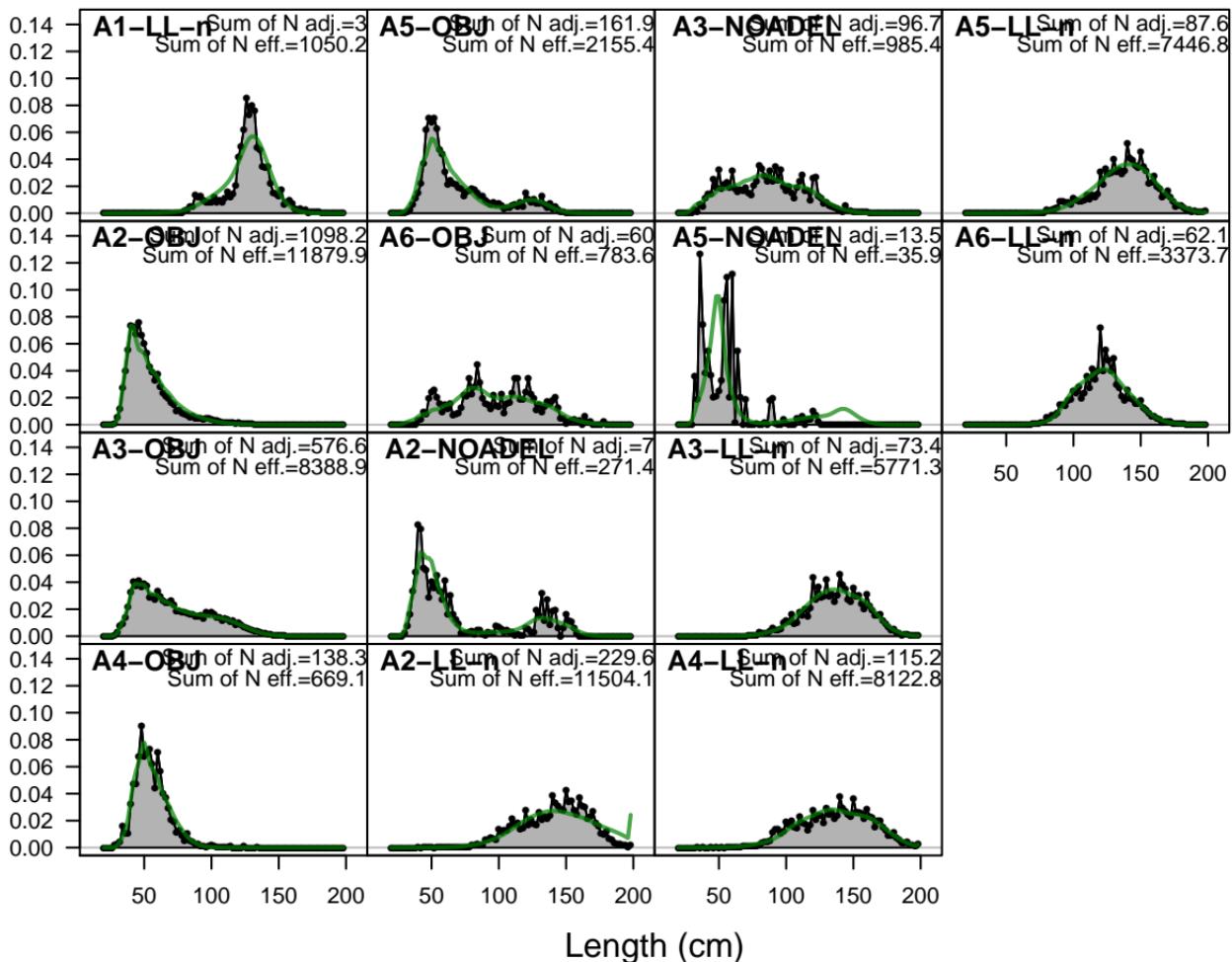
Effective sample size

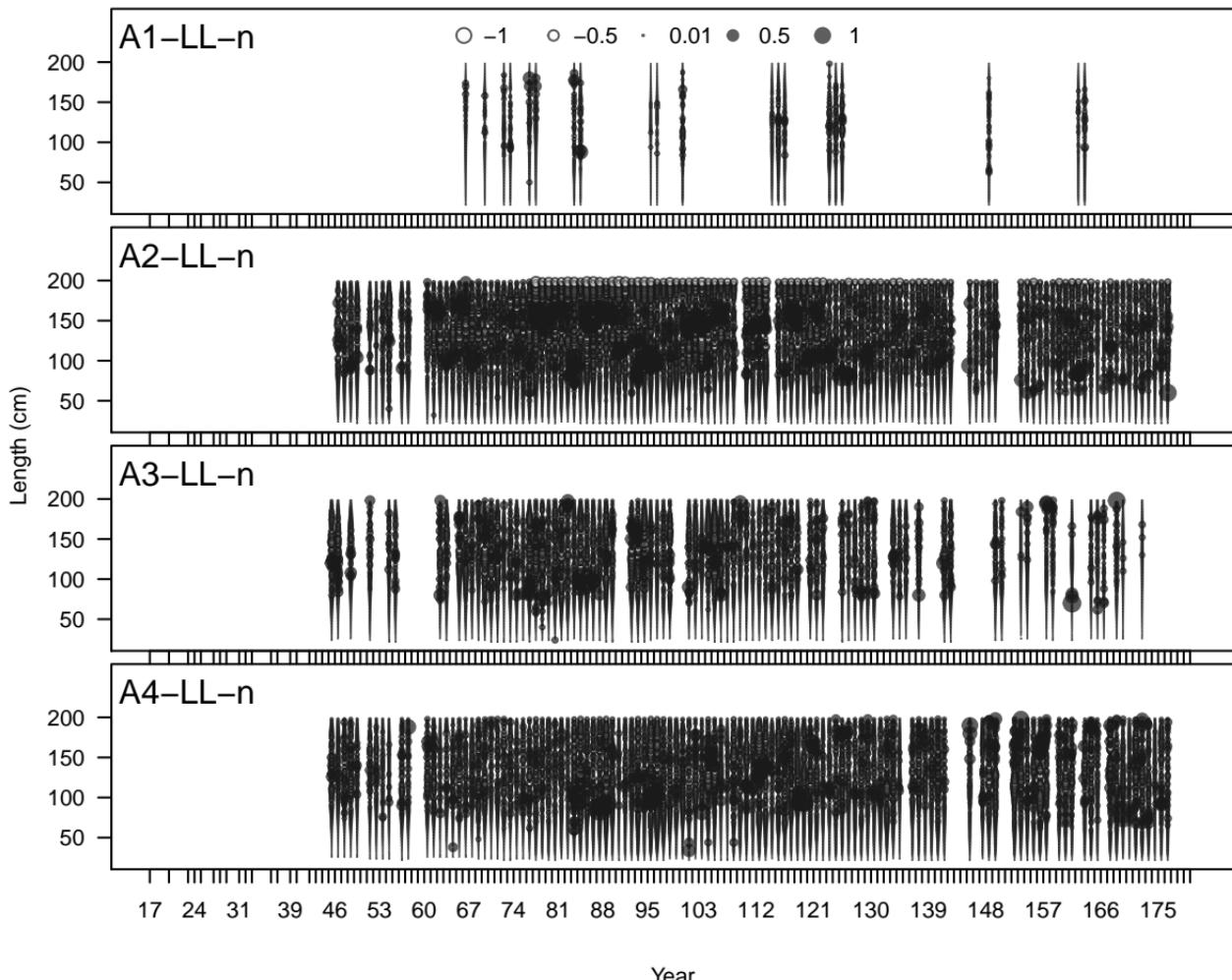


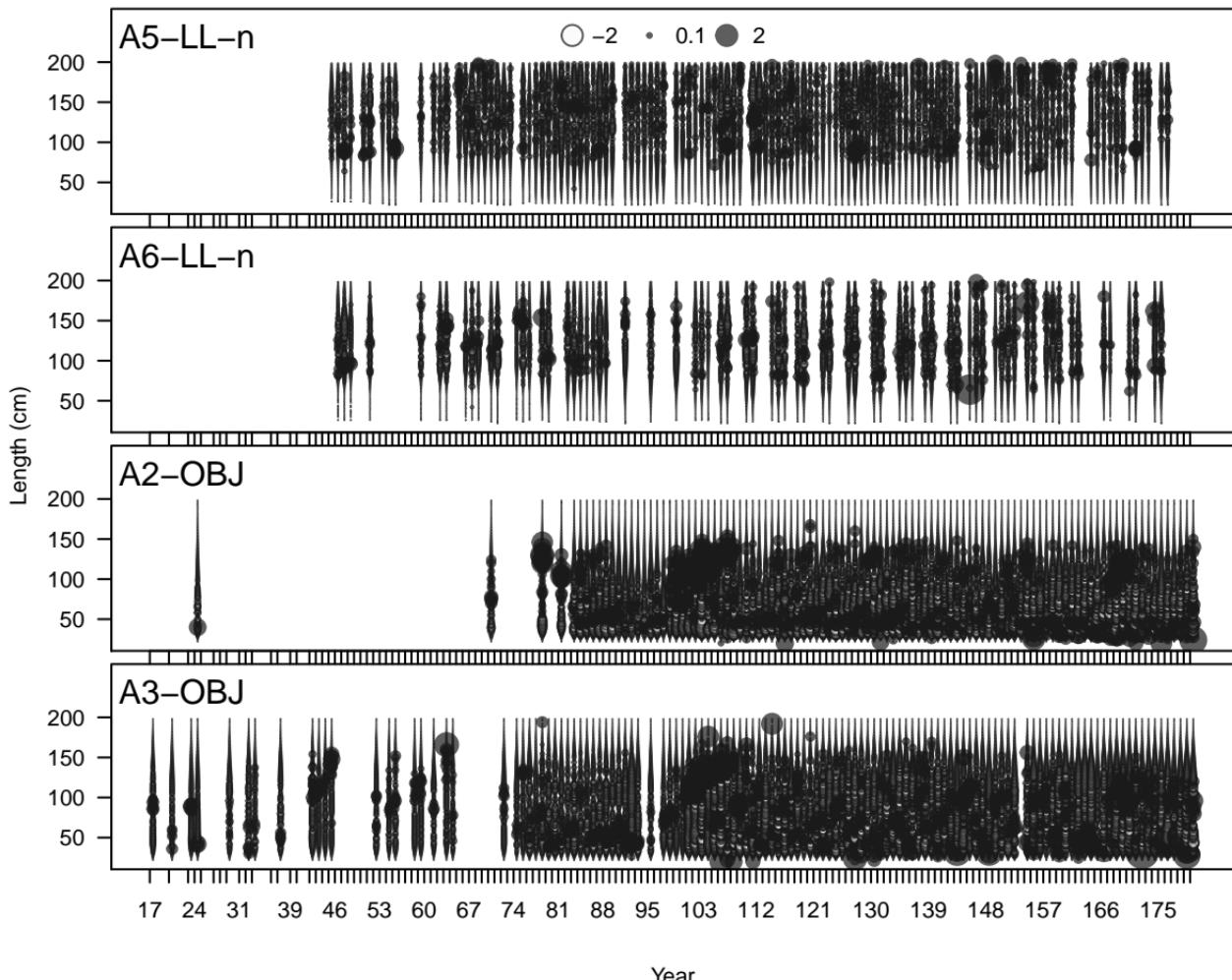
### A5–NOADEL (whole catch)

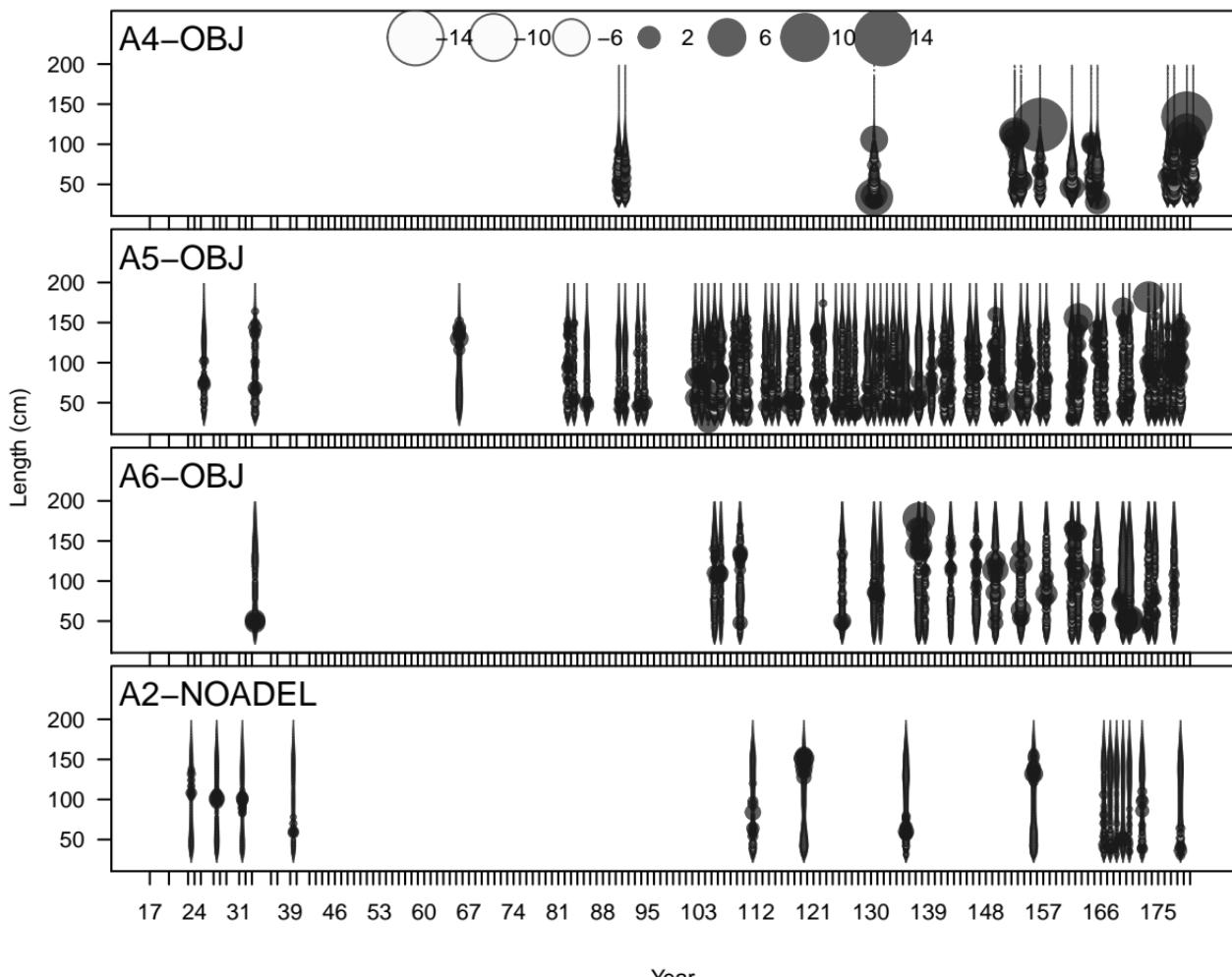


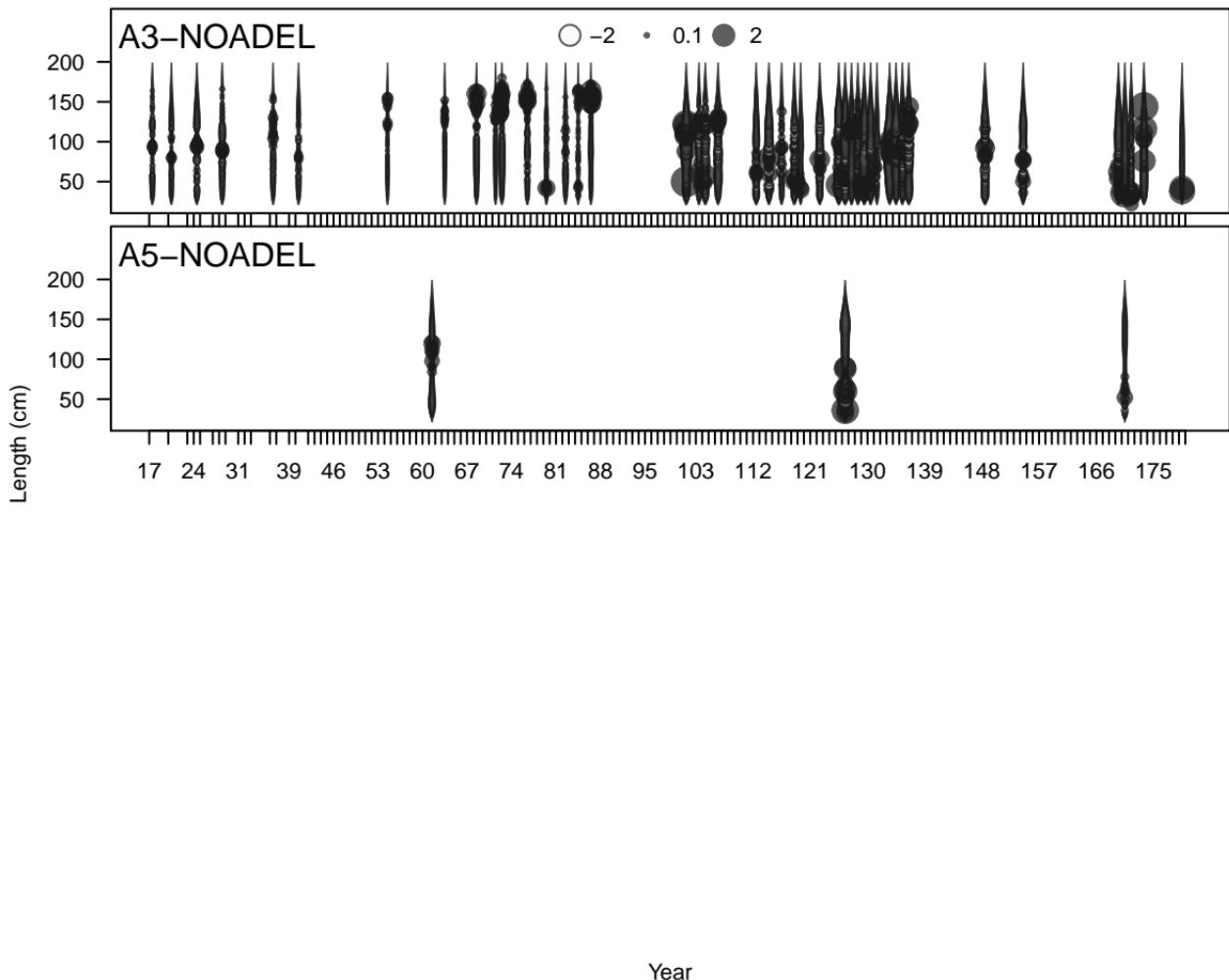
Proportion



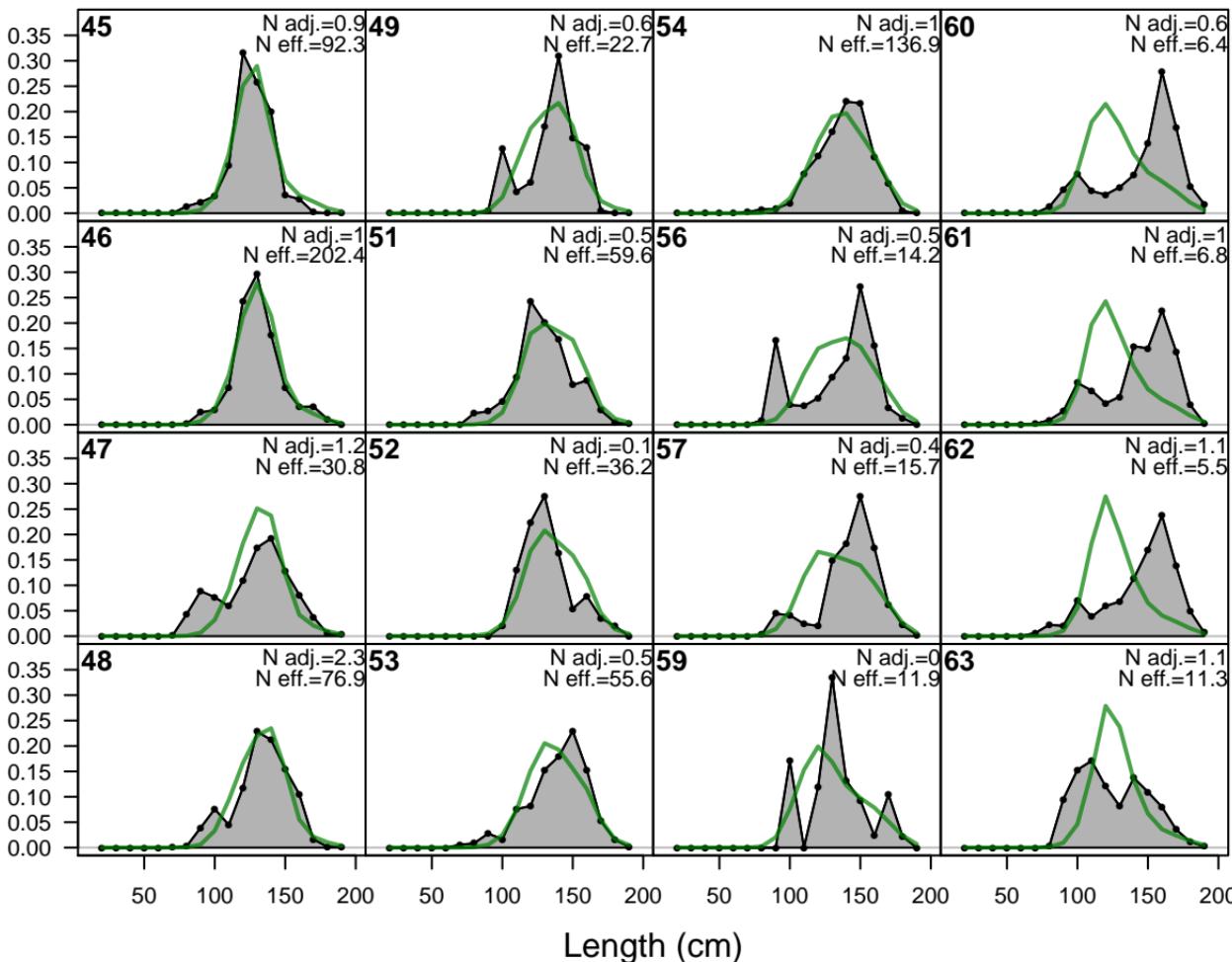




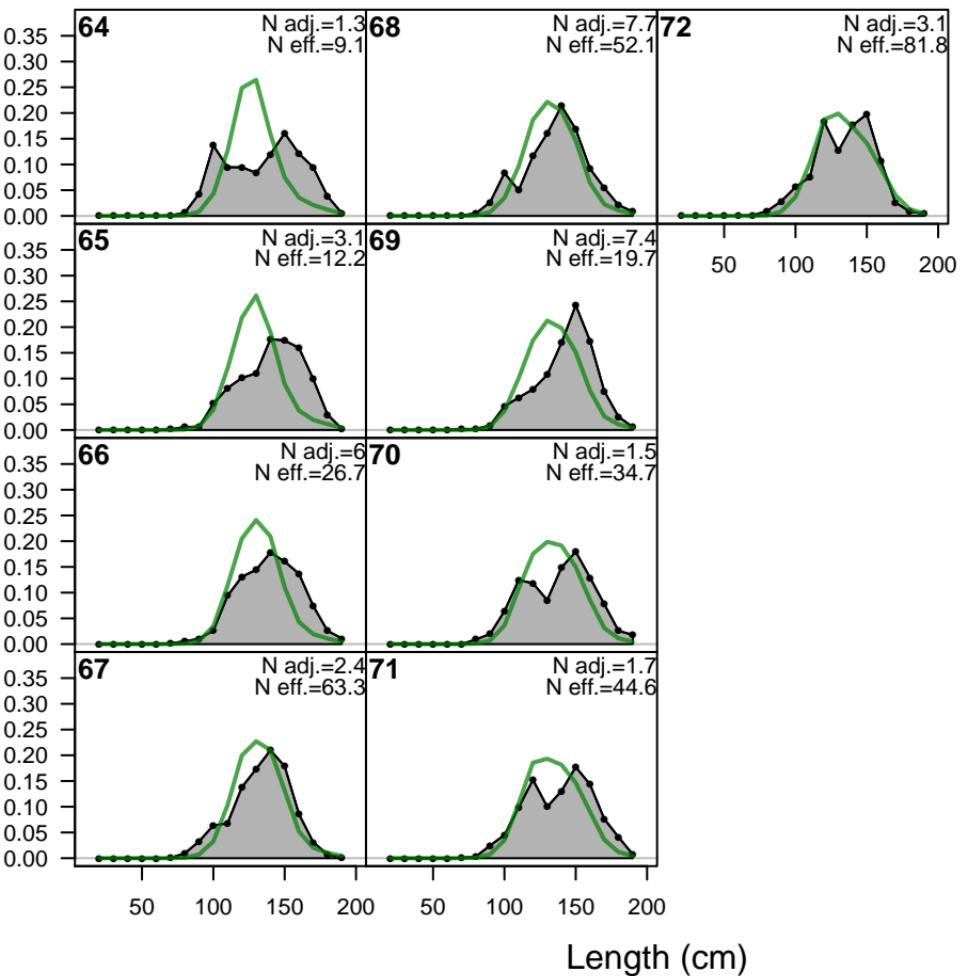


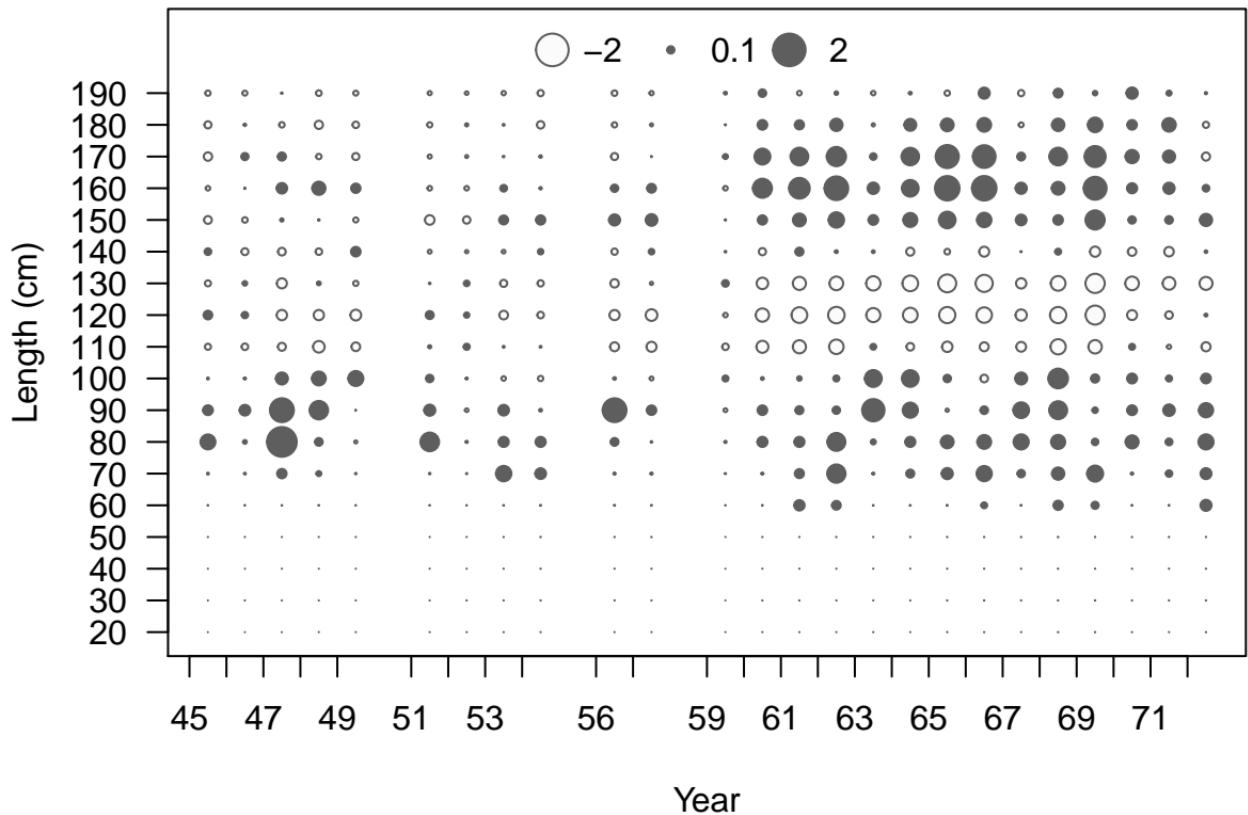


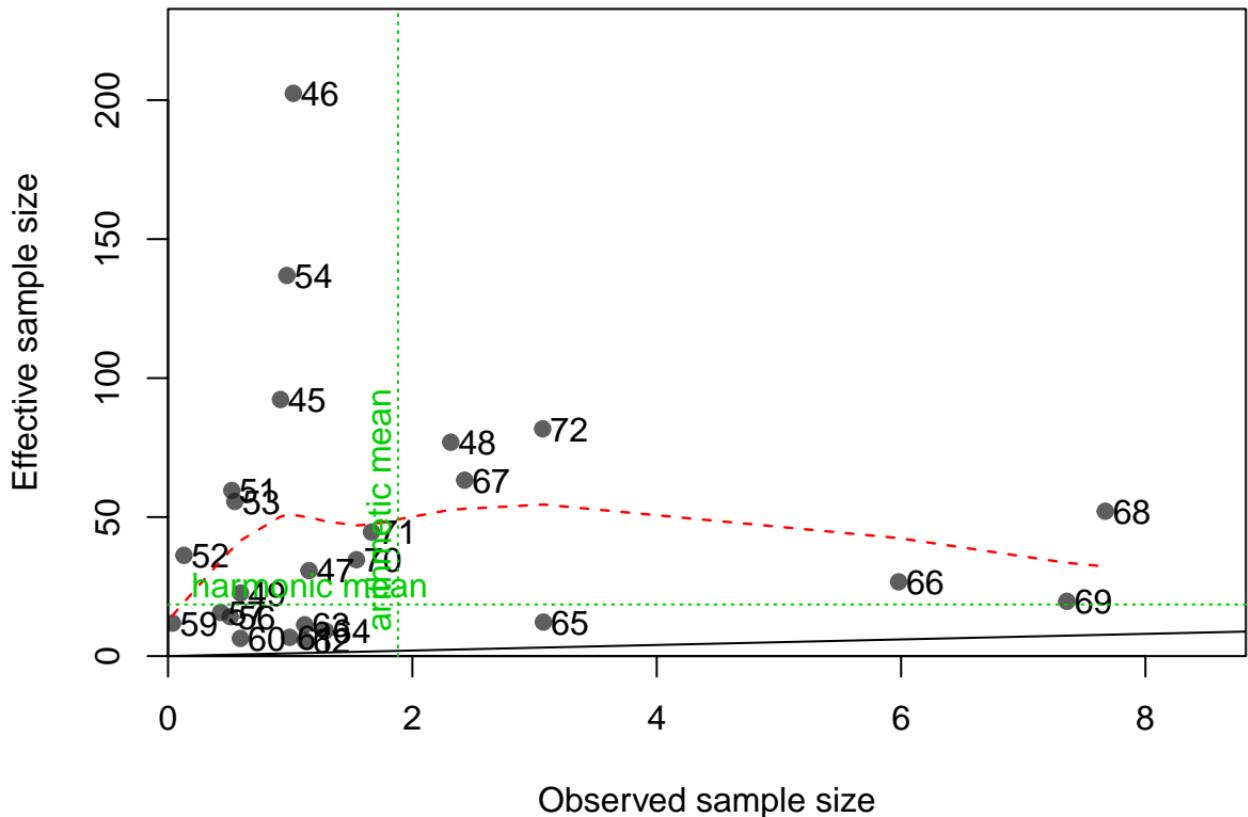
Proportion



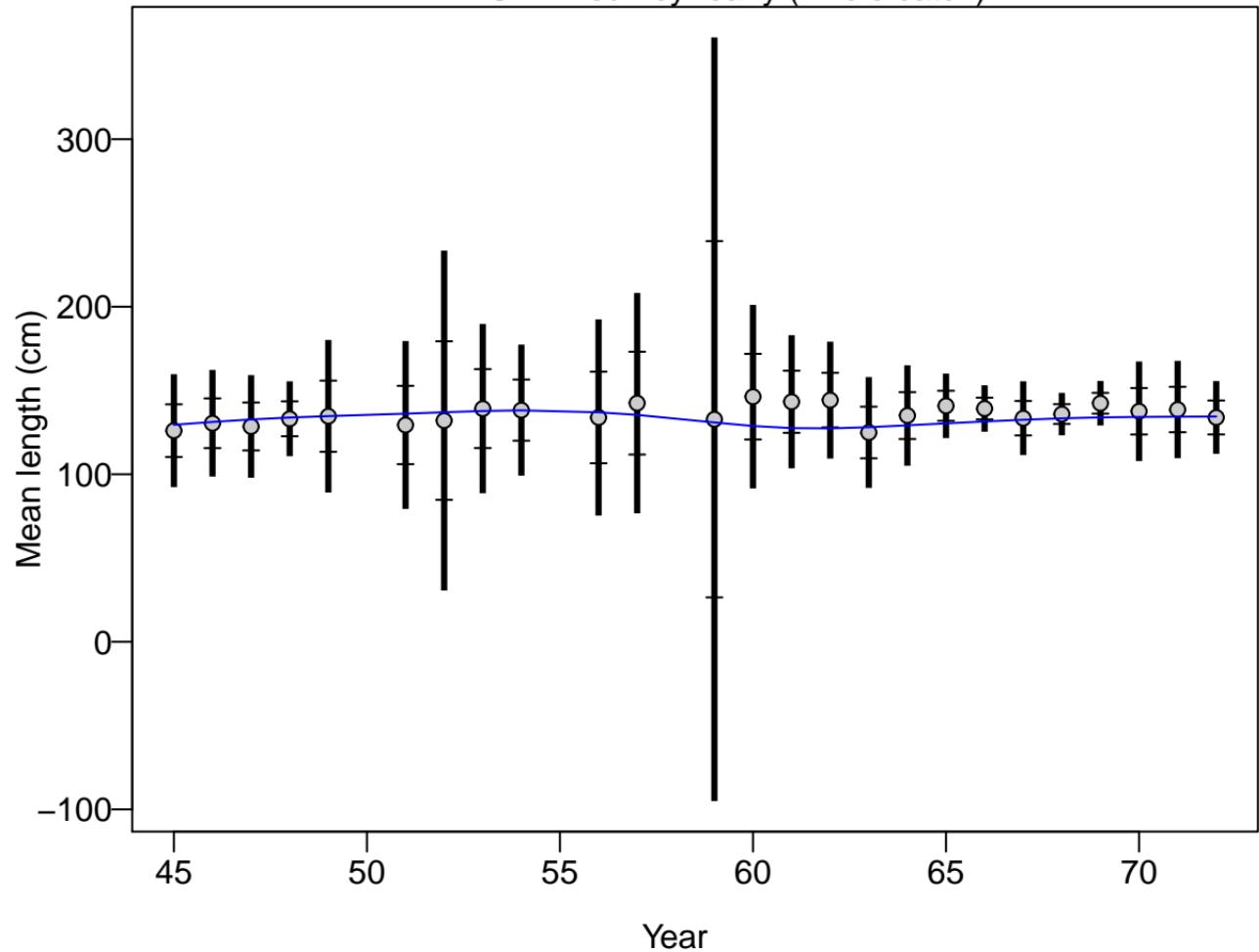
Proportion



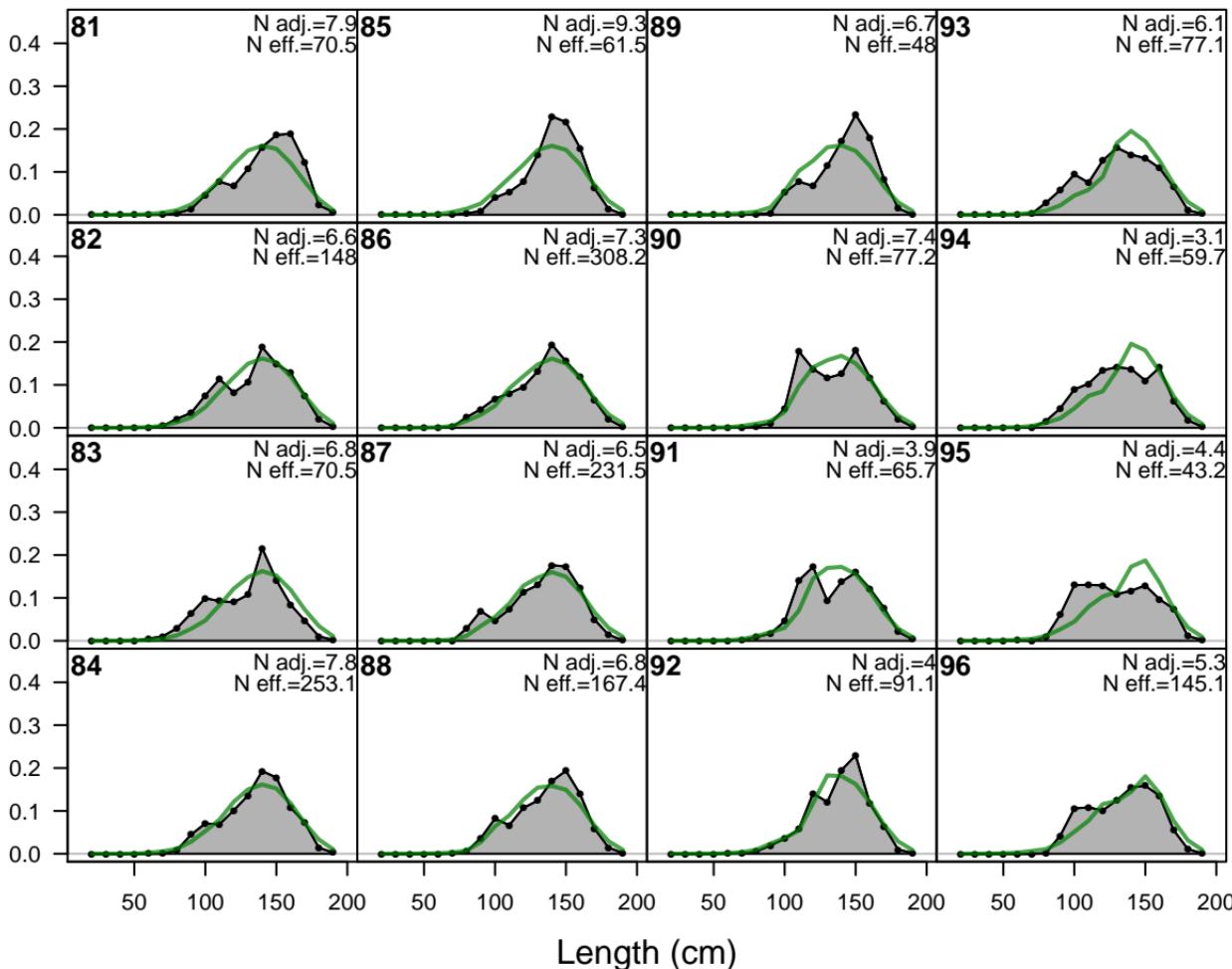




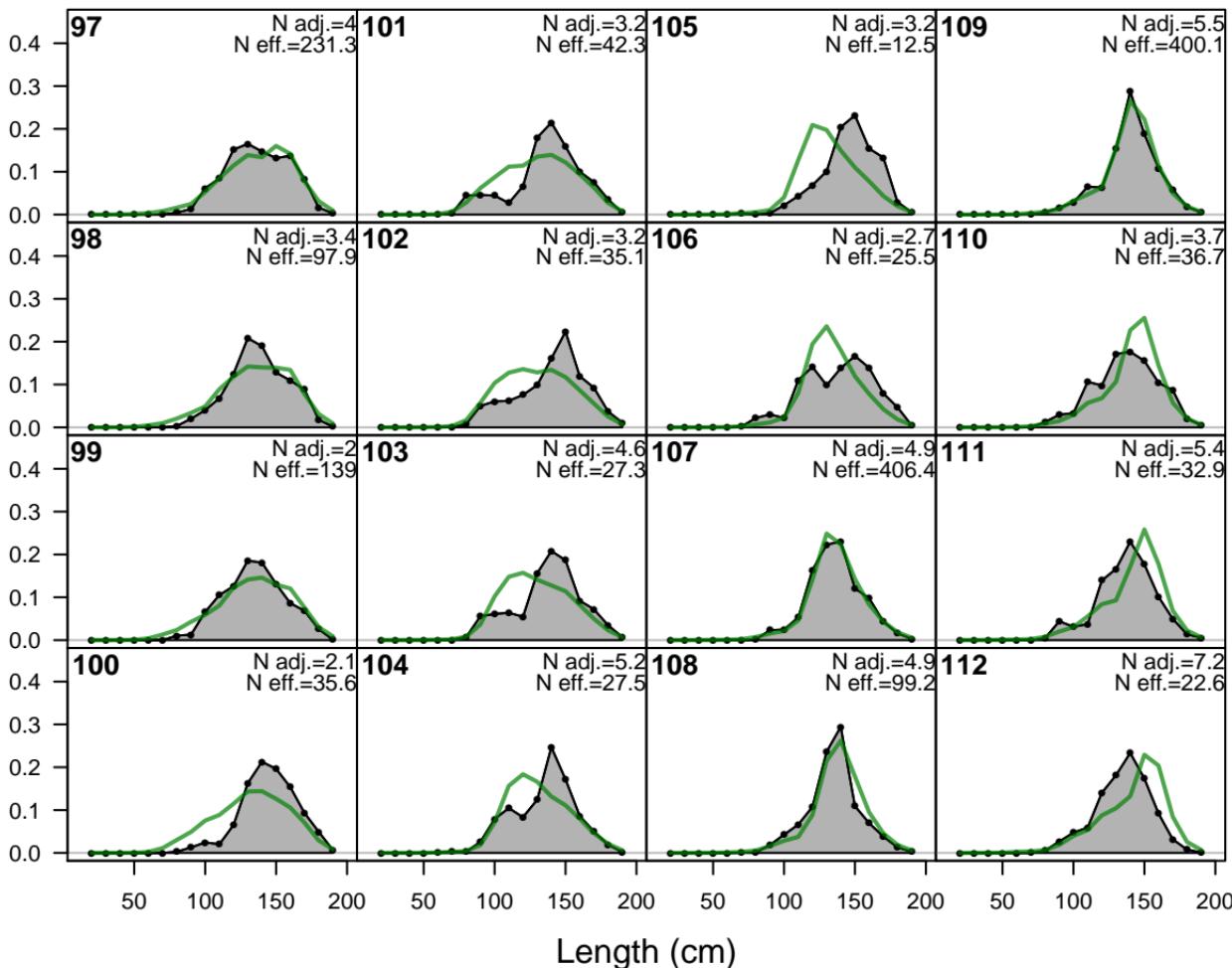
### EPO-LL-survey-early (whole catch)



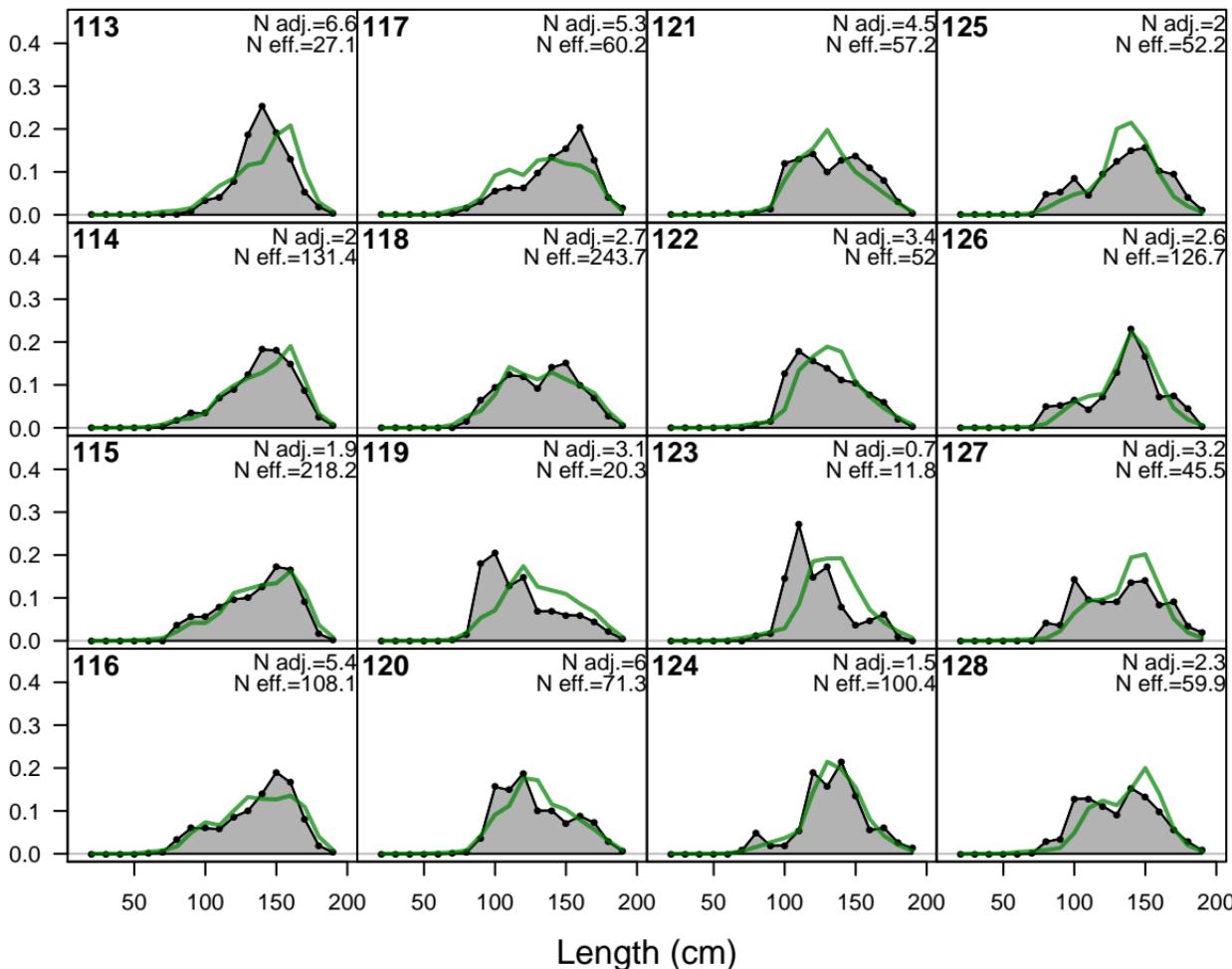
Proportion



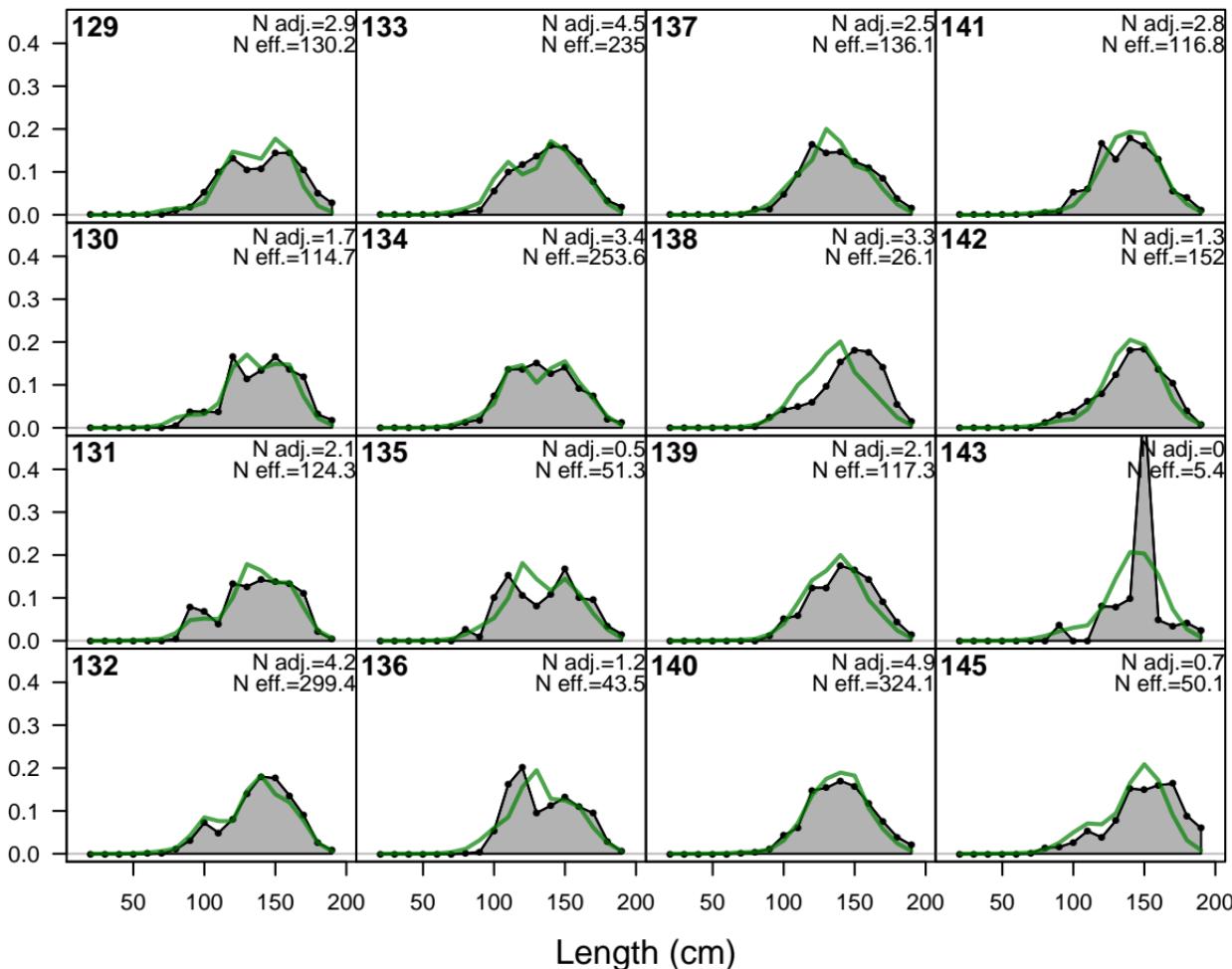
Proportion



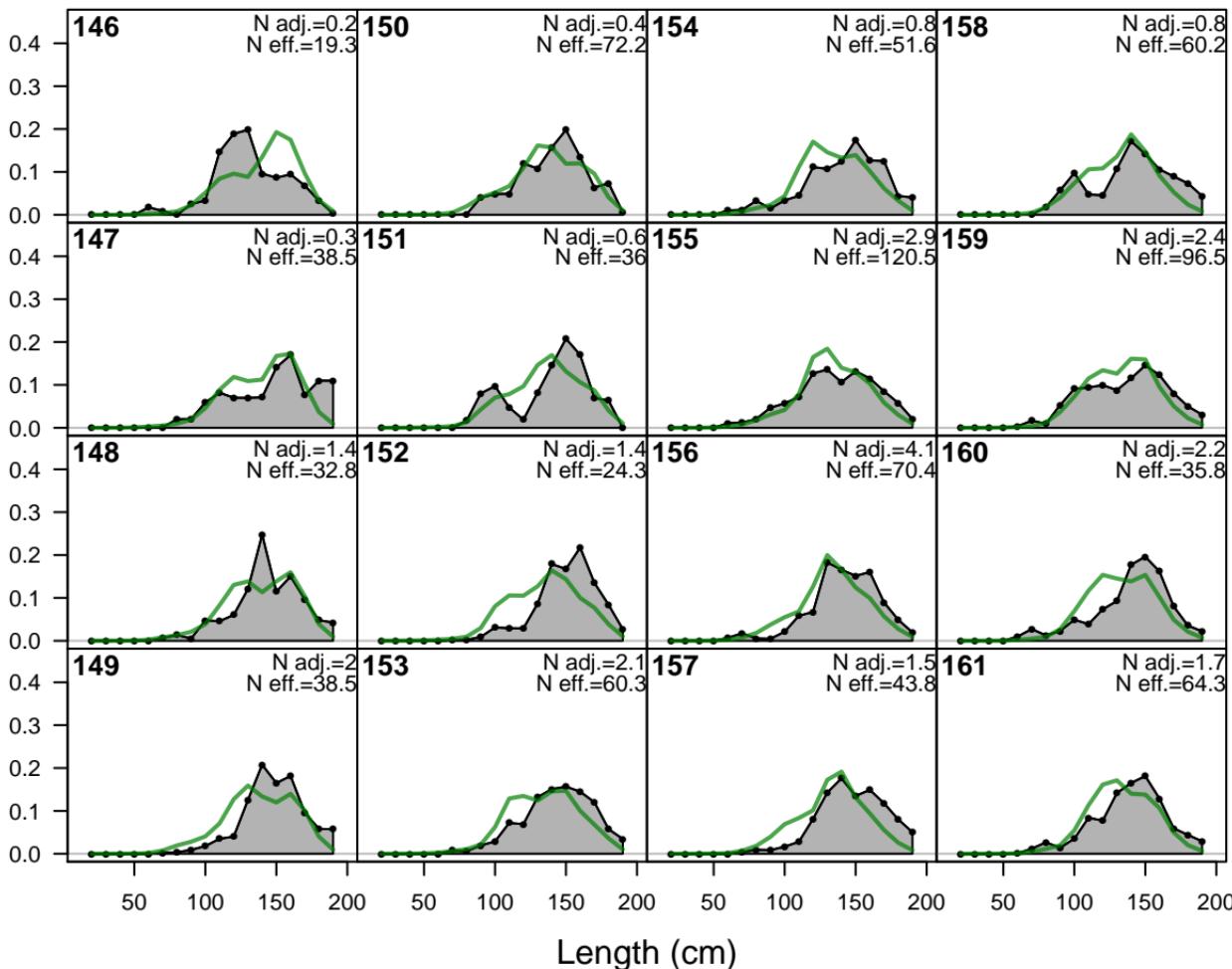
Proportion



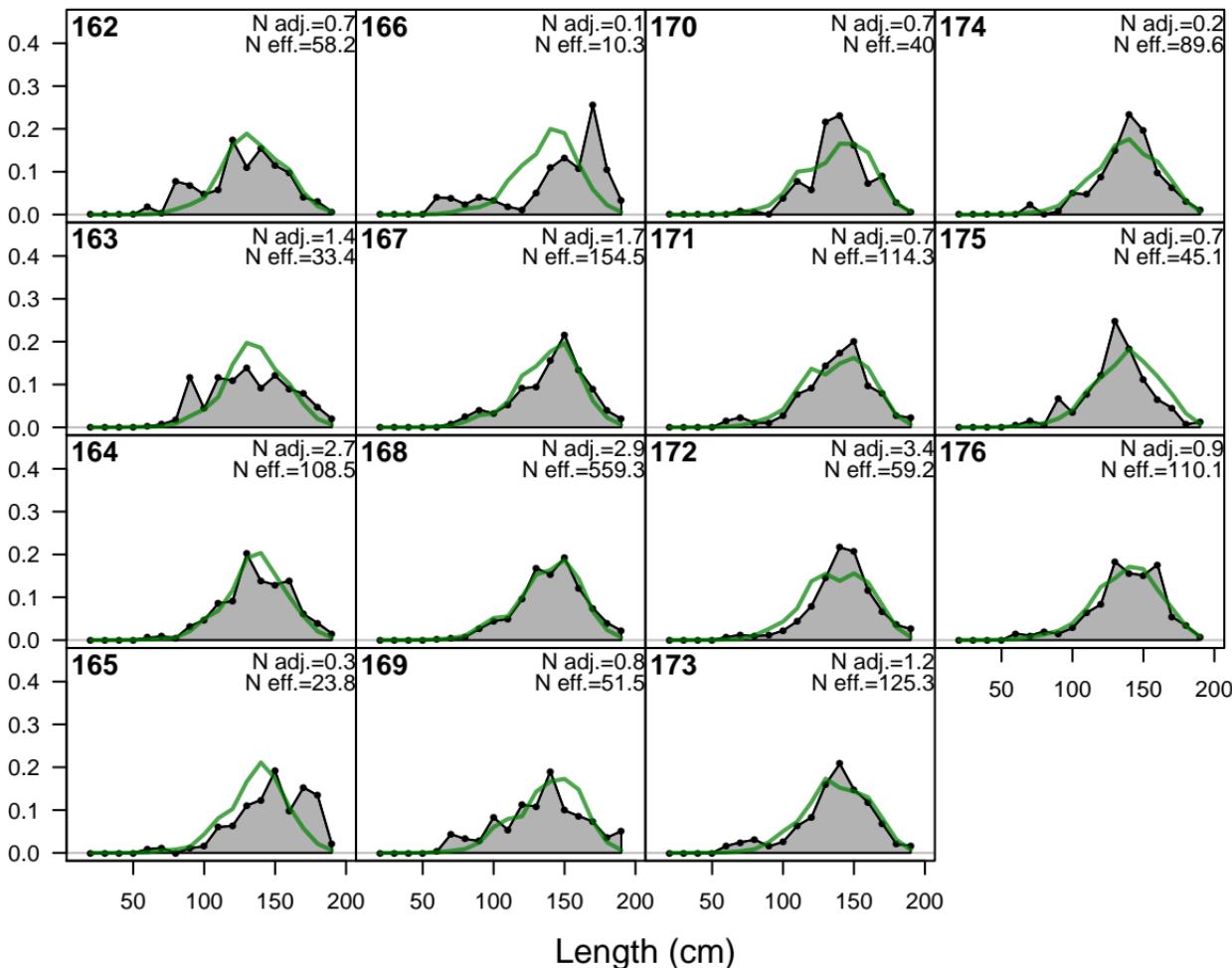
Proportion

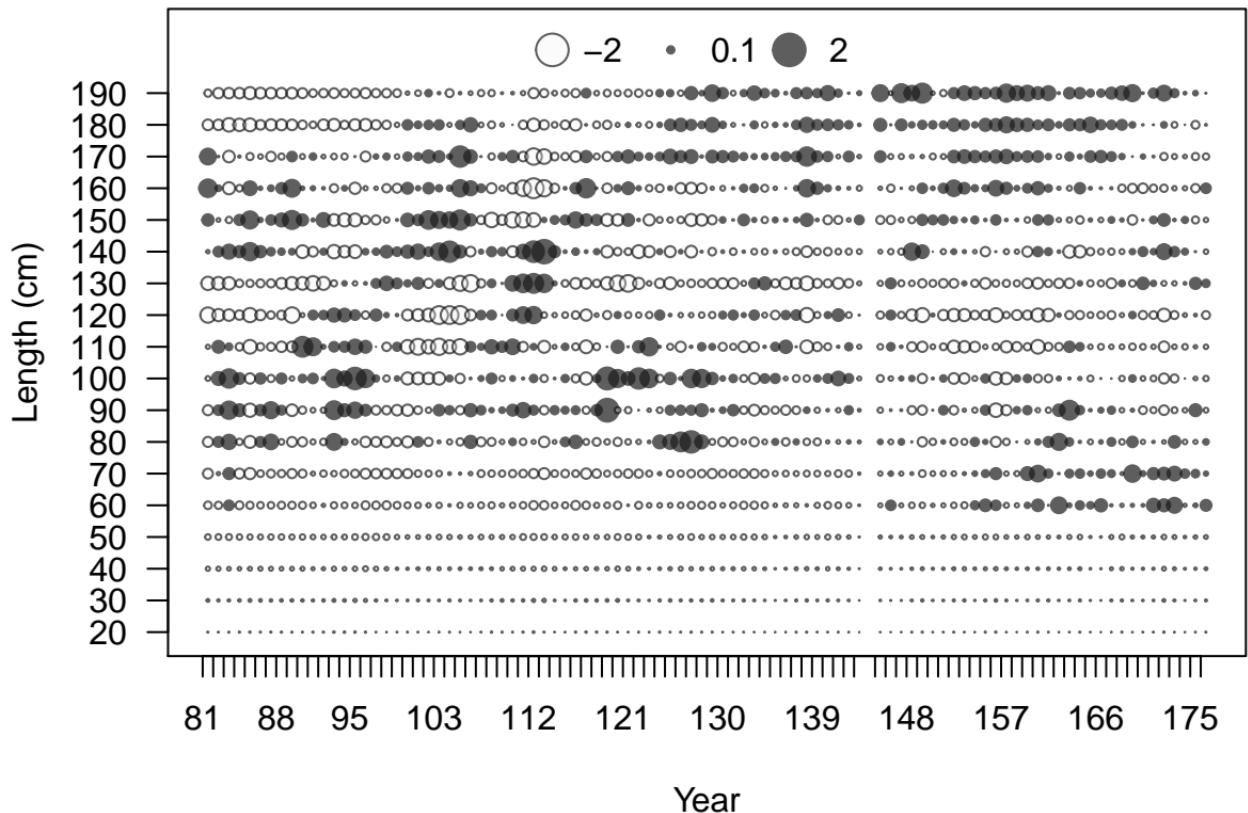


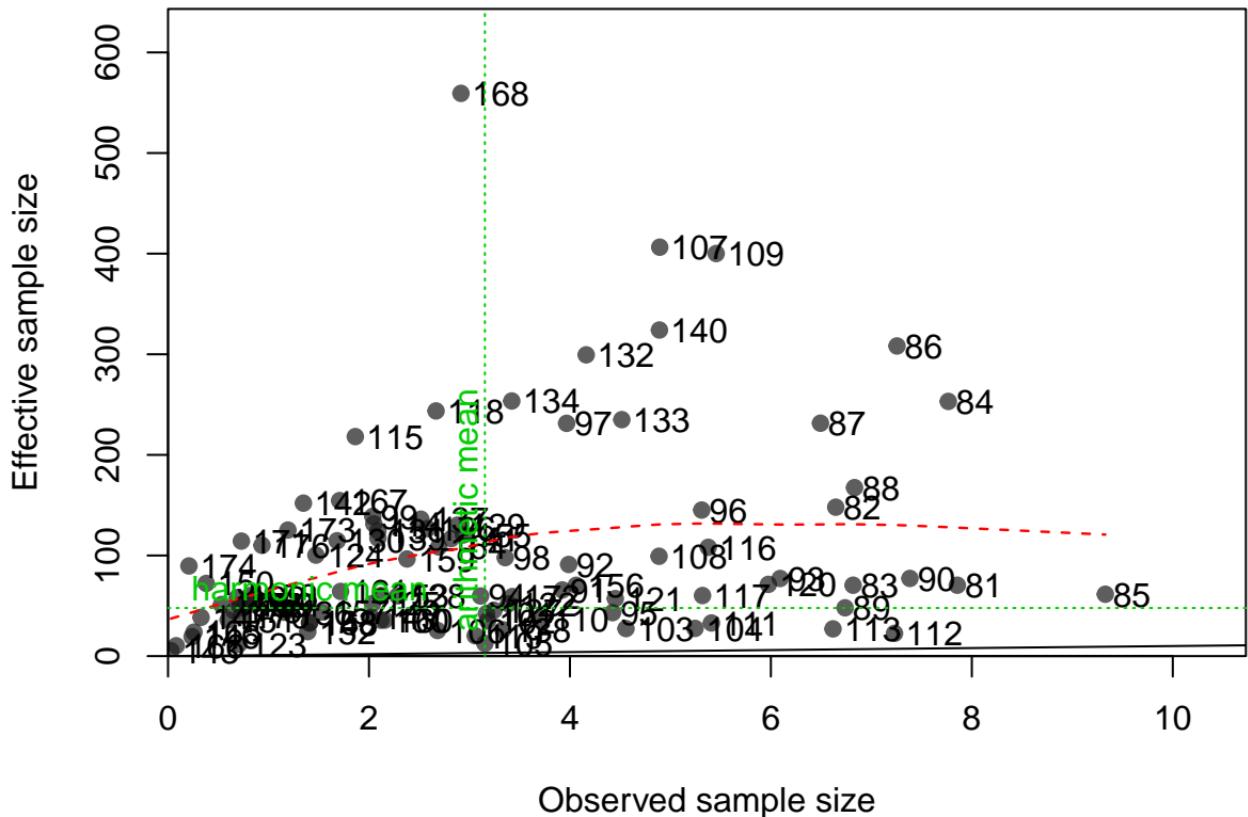
Proportion



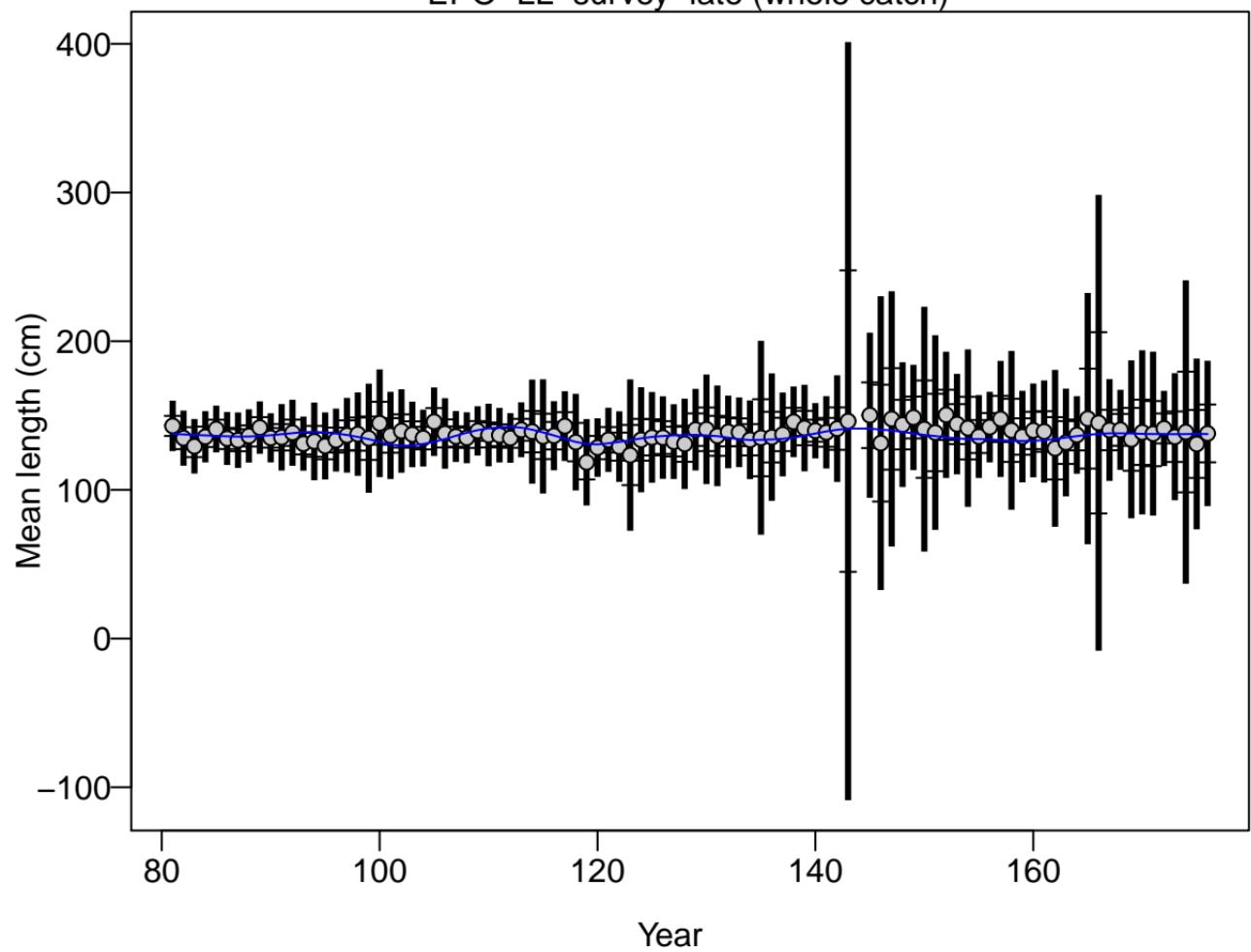
Proportion



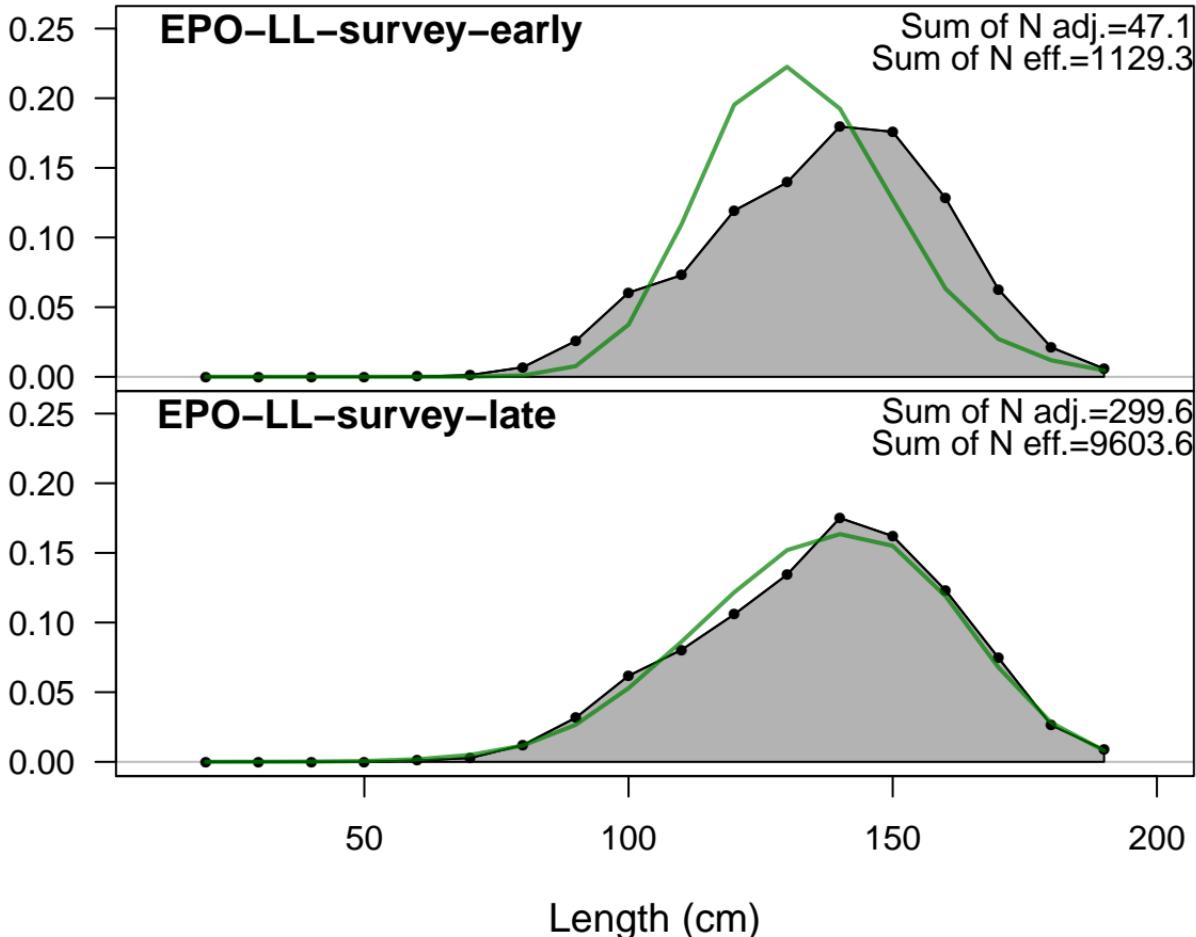


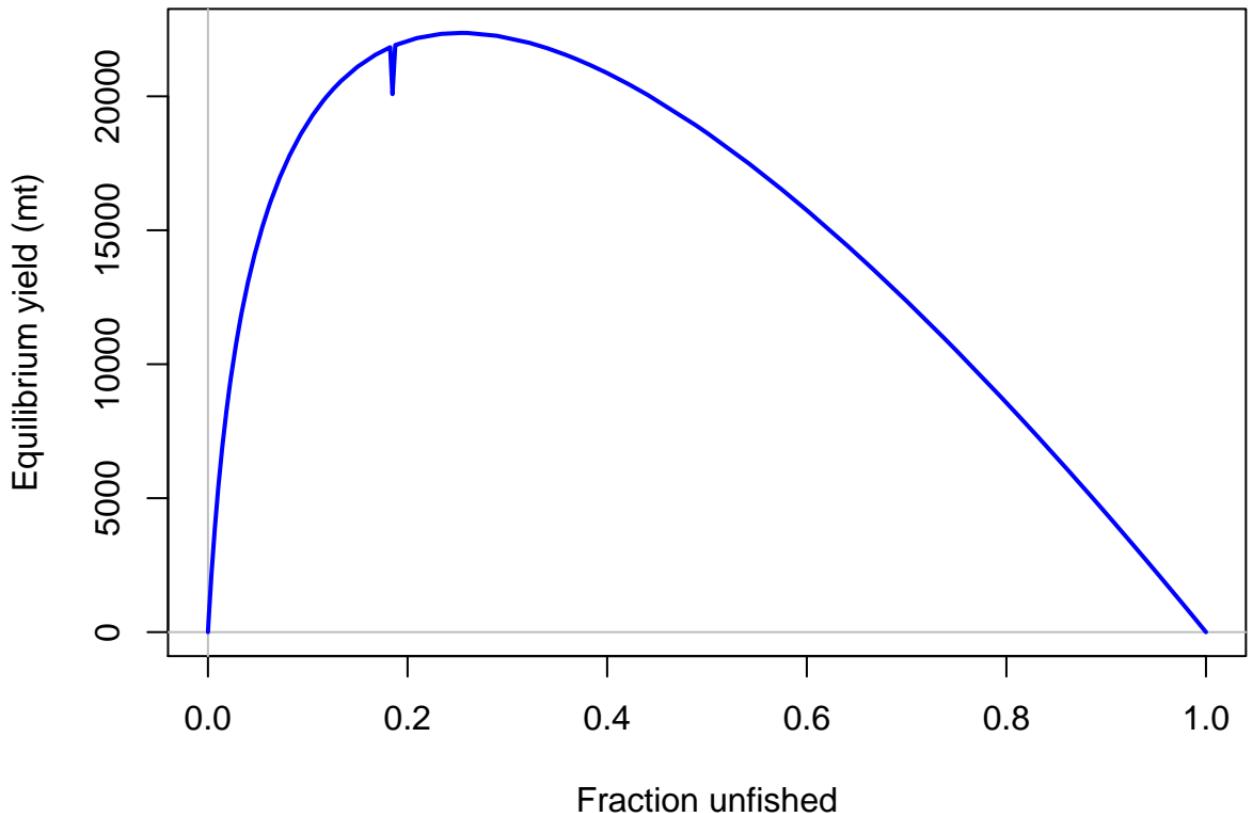


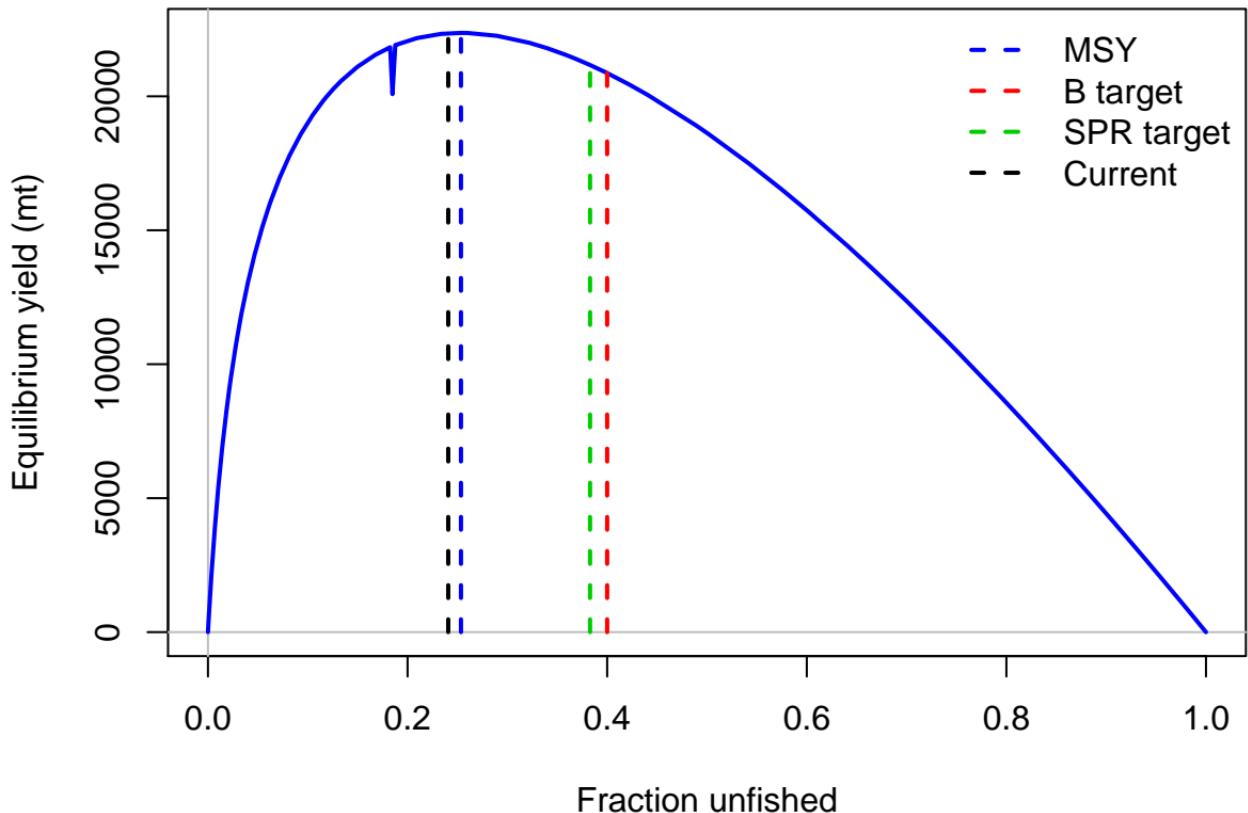
### EPO-LL-survey-late (whole catch)

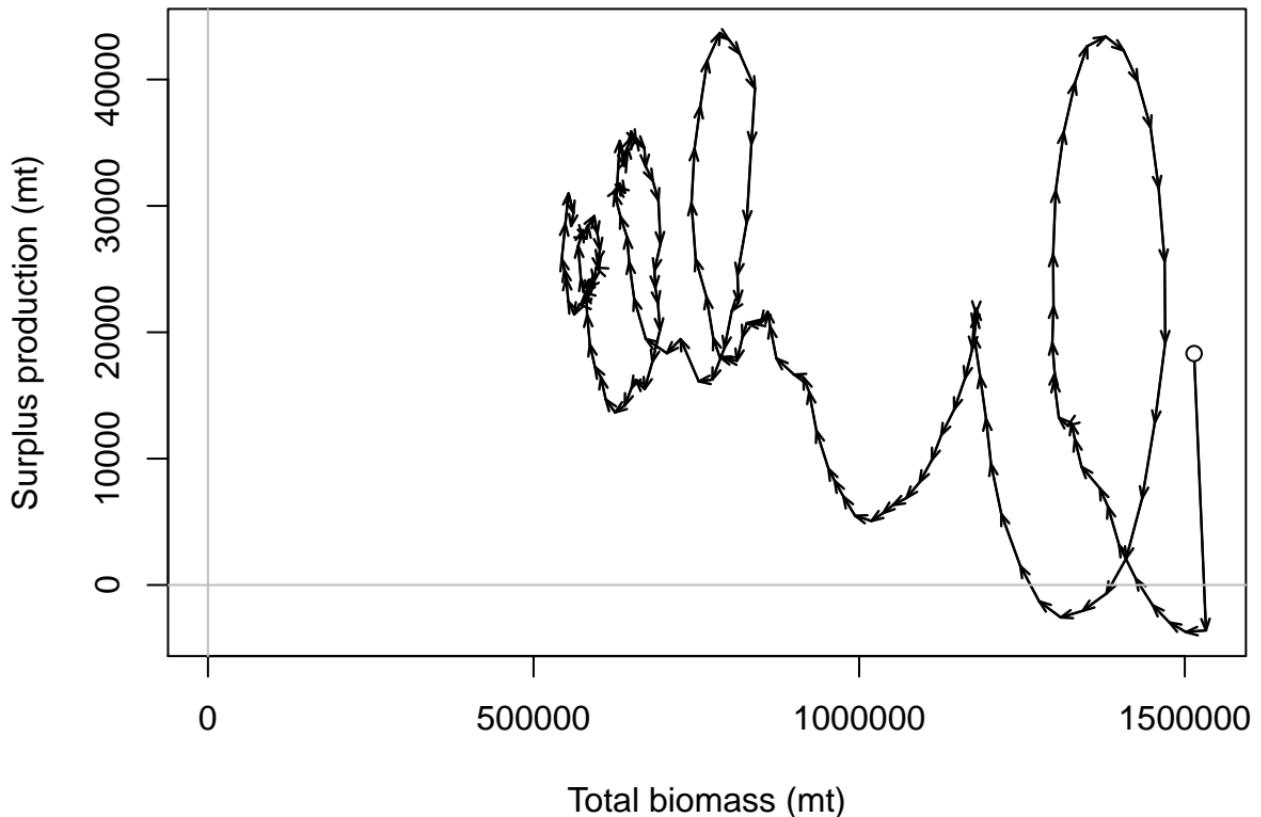


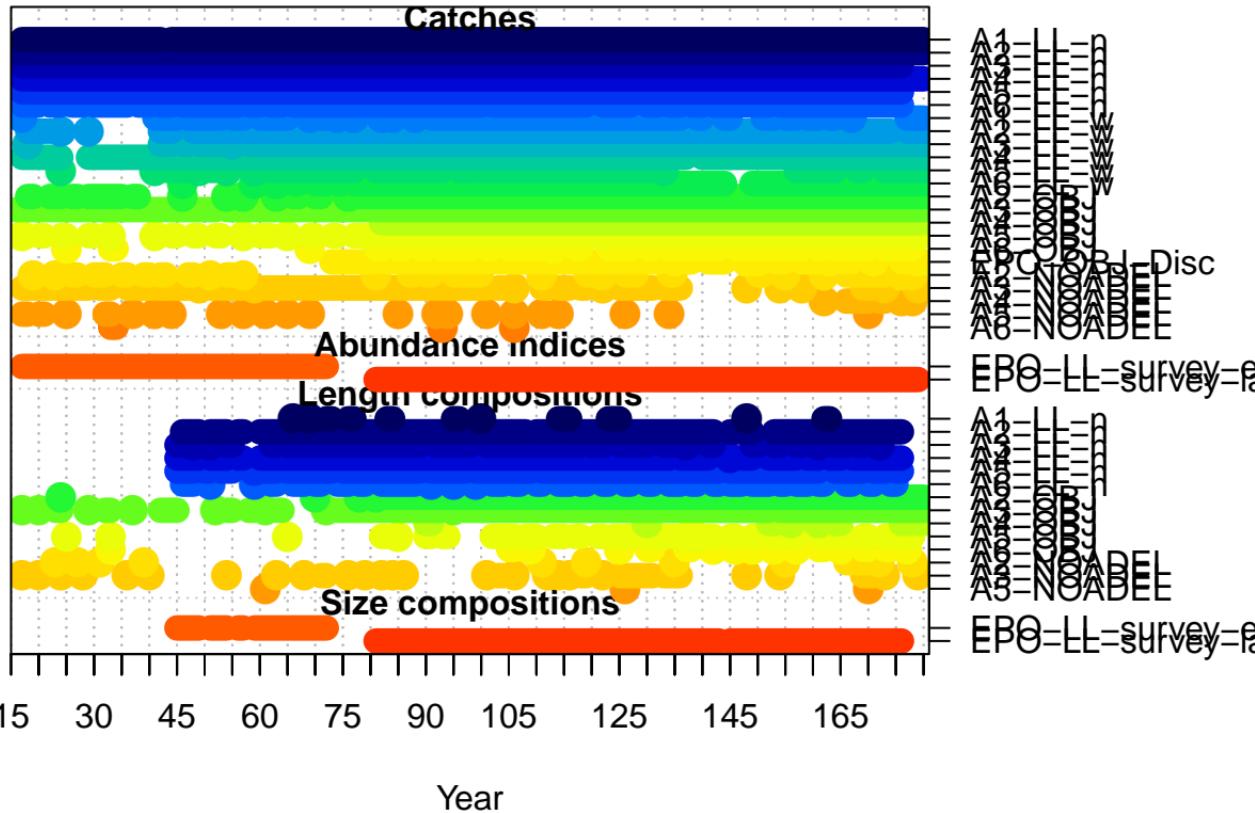
Proportion

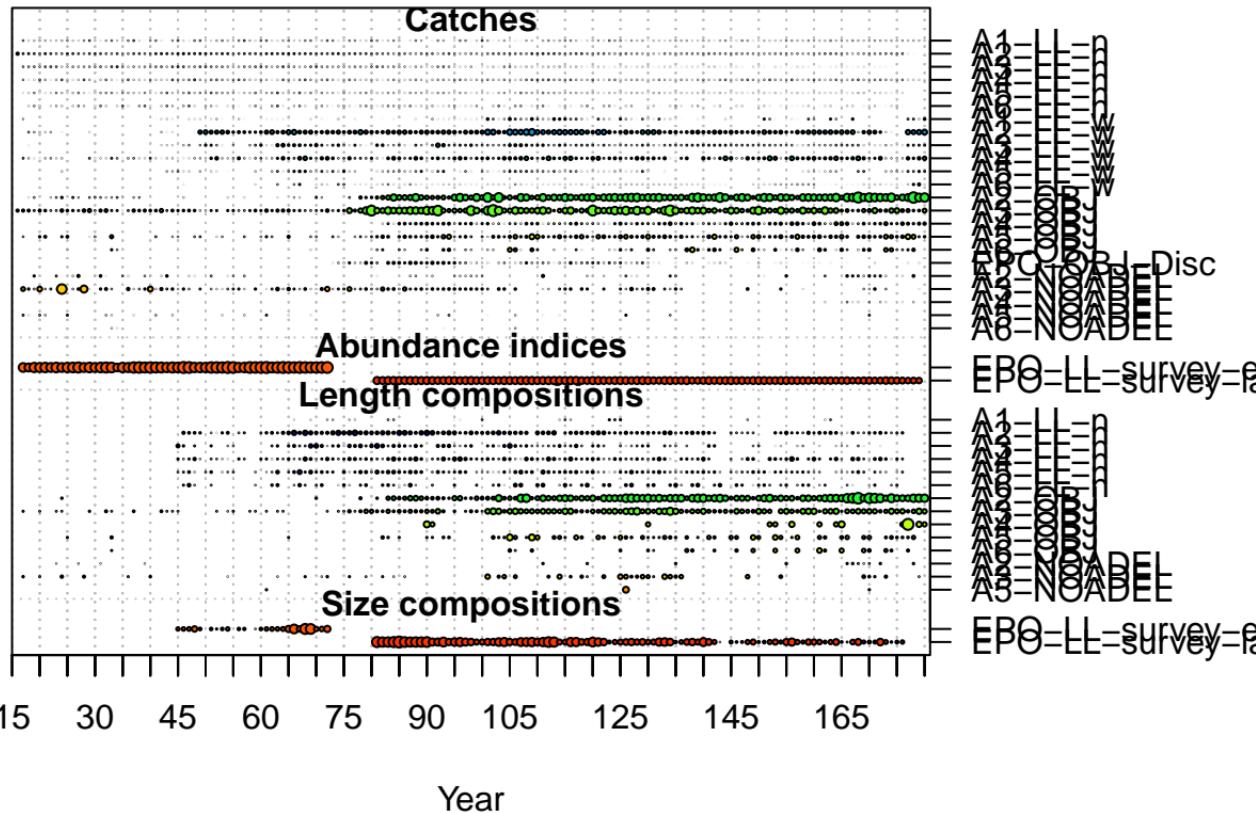








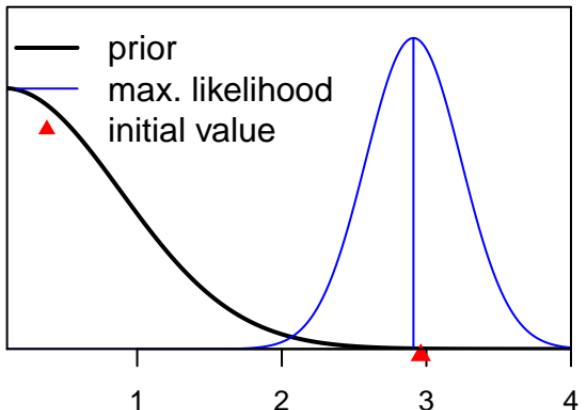




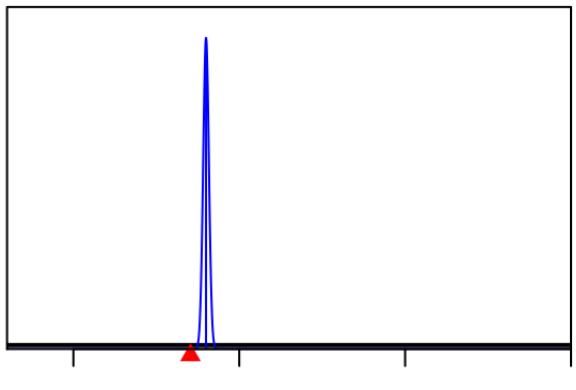
SD\_young\_Fem\_GP\_1

SR\_regime\_BLK1add\_16

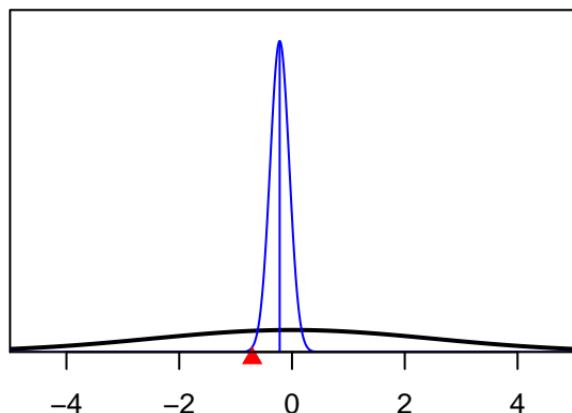
Density



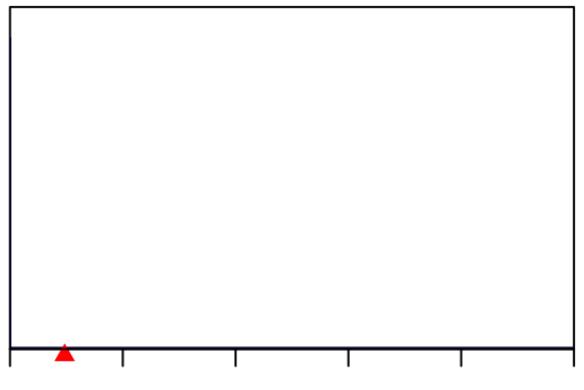
SR\_LN(R0)



Parameter value

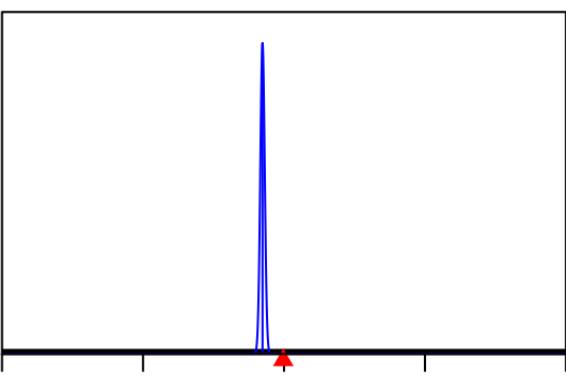
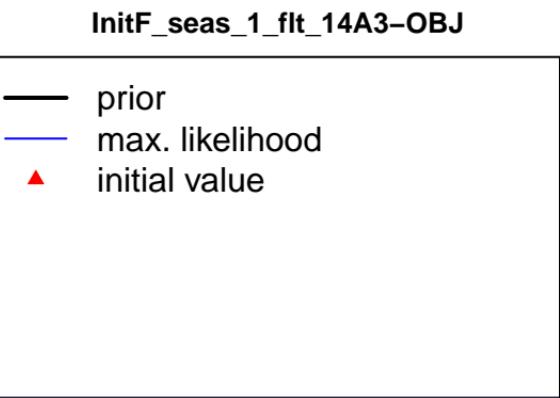


InitF\_seas\_1\_flt\_2A2-LL-n



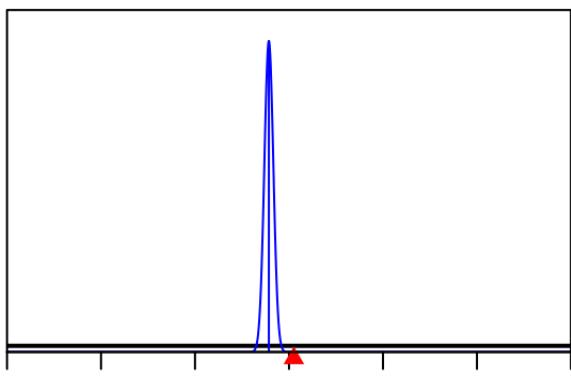
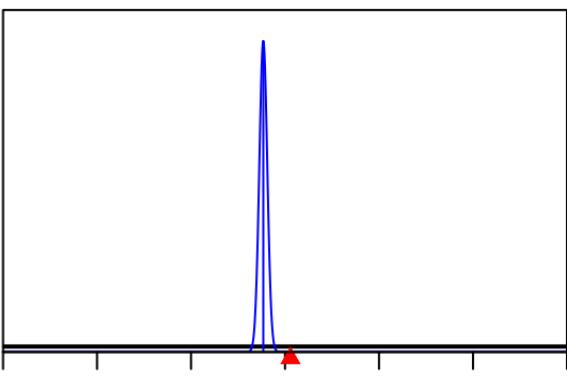
InitF\_seas\_1\_flt\_14A3-OBJ

Q\_extraSD\_EPO-LL-survey-early(24)



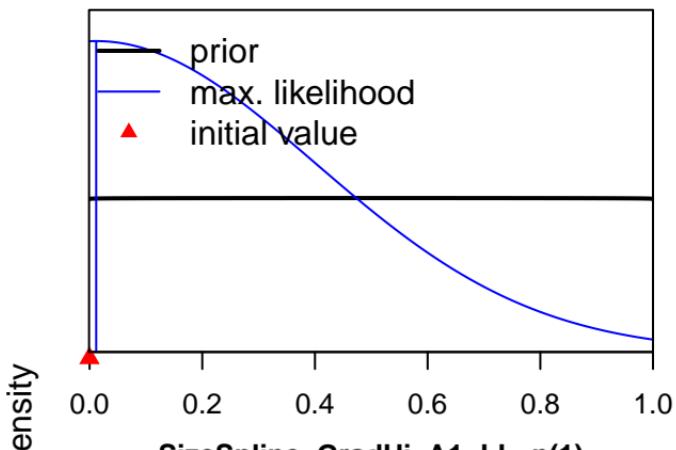
LnQ\_base\_EPO-LL-survey-early(24)

LnQ\_base\_EPO-LL-survey-late(25)

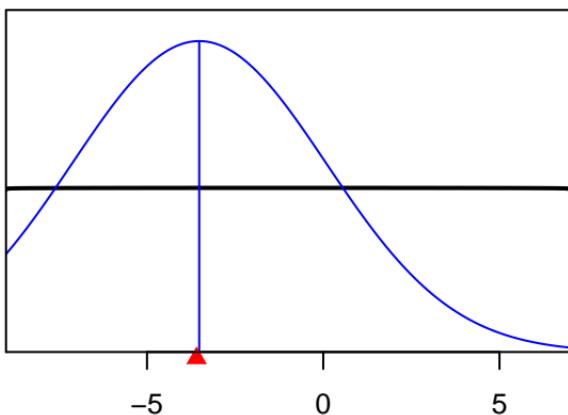


Parameter value

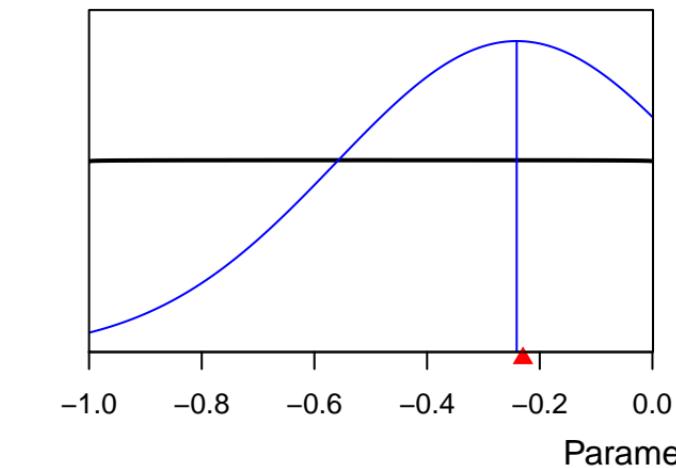
**SizeSpline\_GradLo\_A1-LL-n(1)**



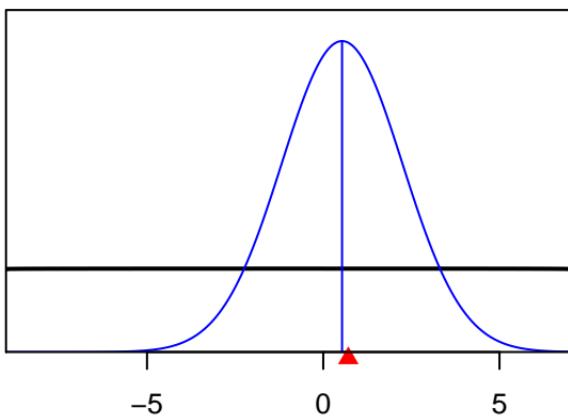
**SizeSpline\_Val\_2\_A1-LL-n(1)**



**SizeSpline\_GradHi\_A1-LL-n(1)**



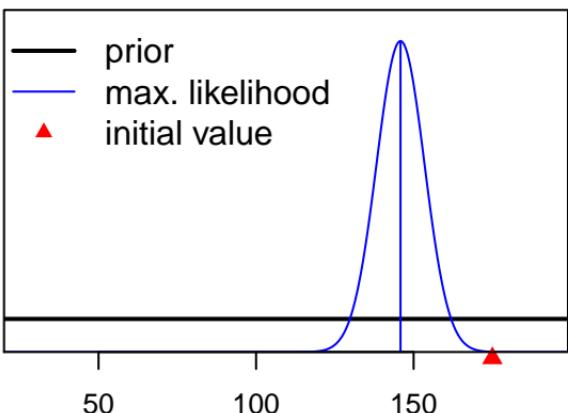
**SizeSpline\_Val\_4\_A1-LL-n(1)**



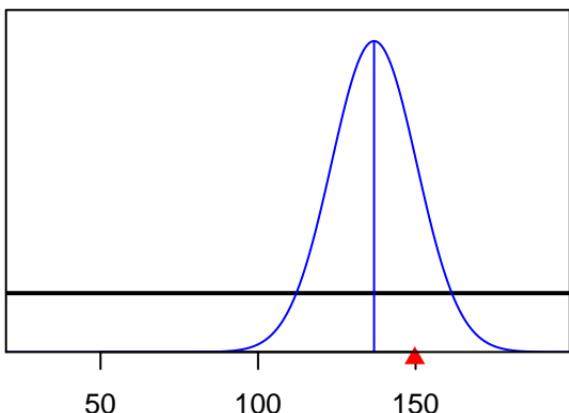
Parameter value

Size\_DbIN\_peak\_A2-LL-n(2)

Density

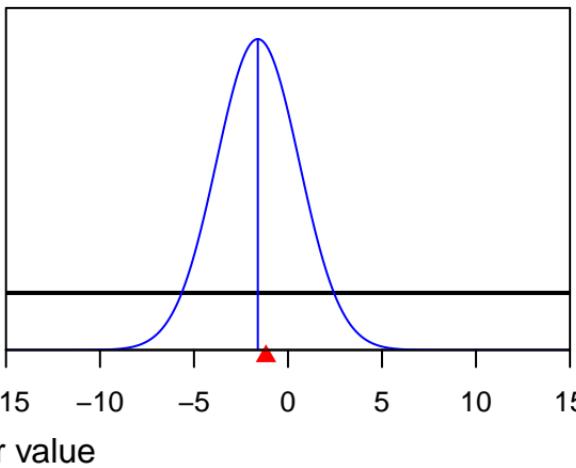


Size\_DbIN\_peak\_A3-LL-n(3)



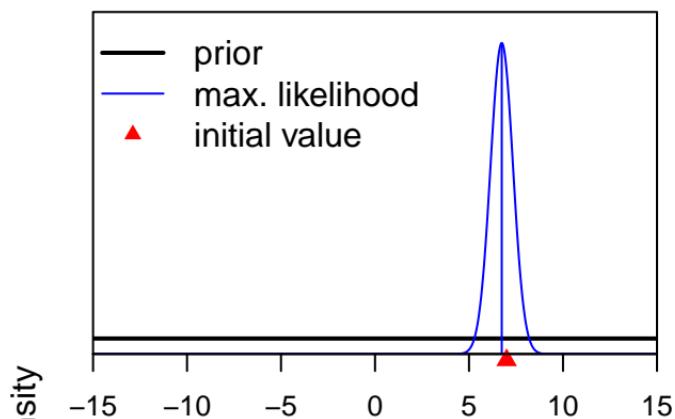
Size\_DbIN\_ascend\_se\_A2-LL-n(2)

Size\_DbIN\_top\_logit\_A3-LL-n(3)

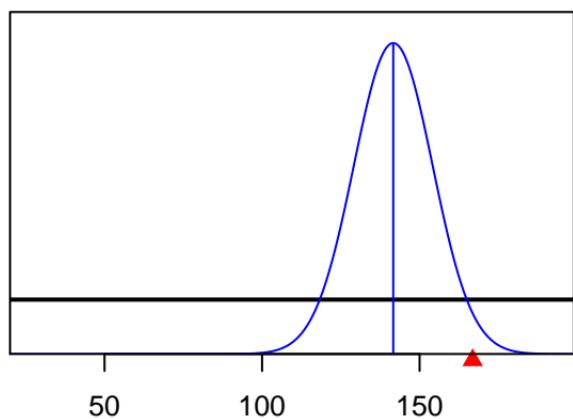


Parameter value

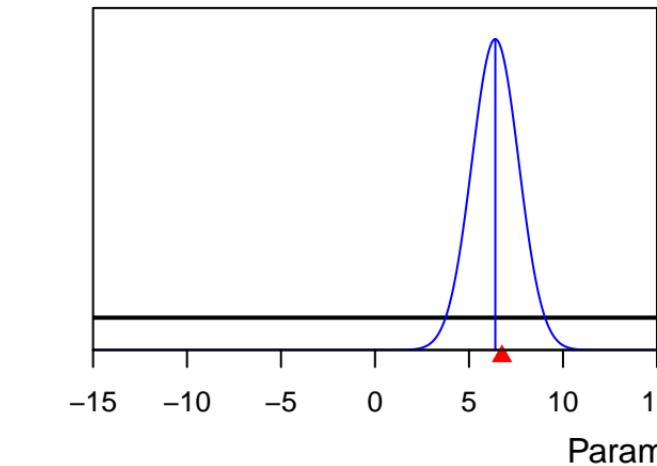
Size\_DbIN\_ascend\_se\_A3-LL-n(3)



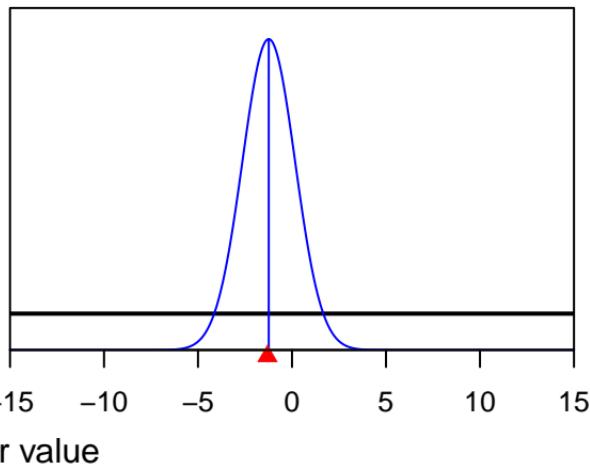
Size\_DbIN\_peak\_A4-LL-n(4)



Size\_DbIN\_descend\_se\_A3-LL-n(3)



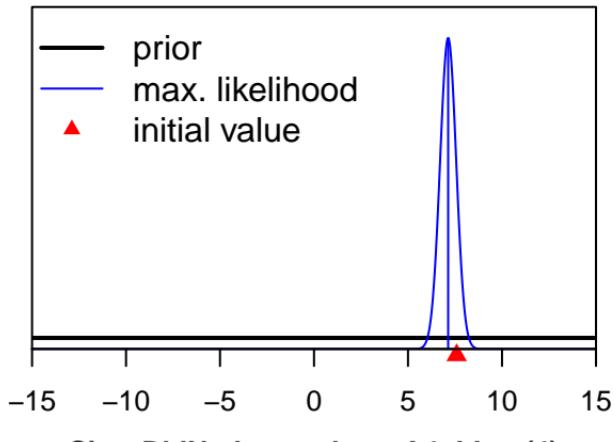
Size\_DbIN\_top\_logit\_A4-LL-n(4)



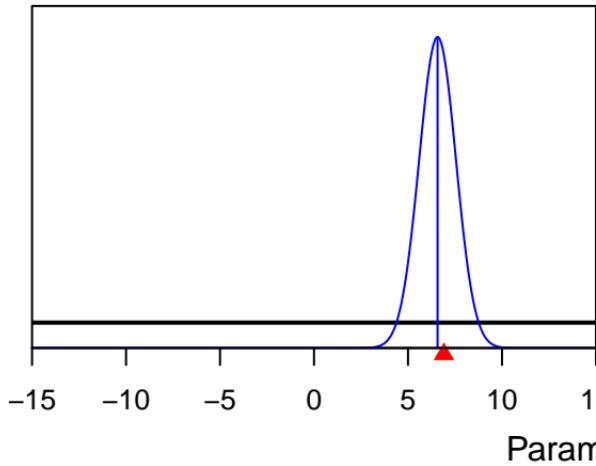
Size\_DbIN\_ascend\_se\_A4-LL-n(4)

Size\_DbIN\_peak\_A5-LL-n(5)

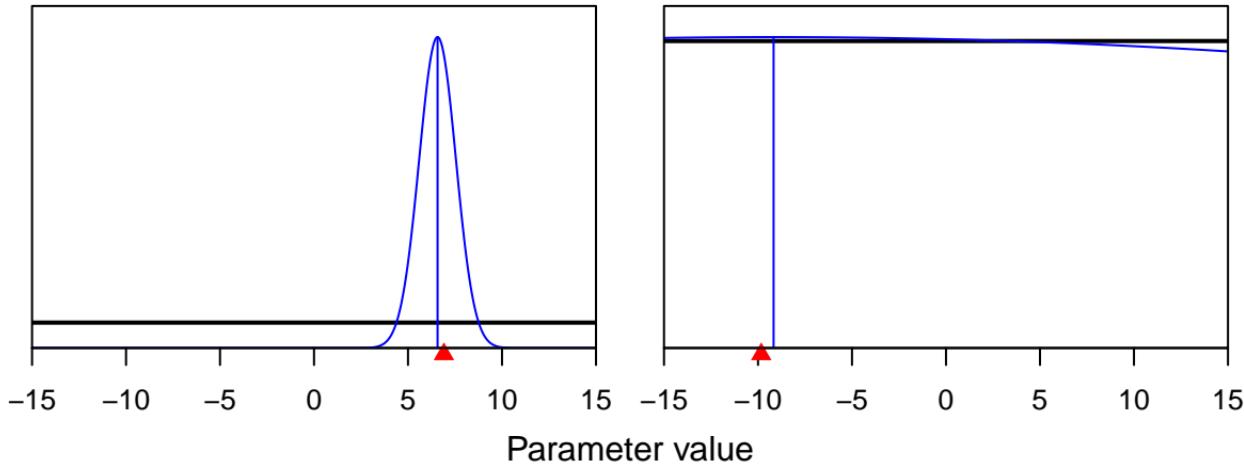
Density



Size\_DbIN\_descend\_se\_A4-LL-n(4)

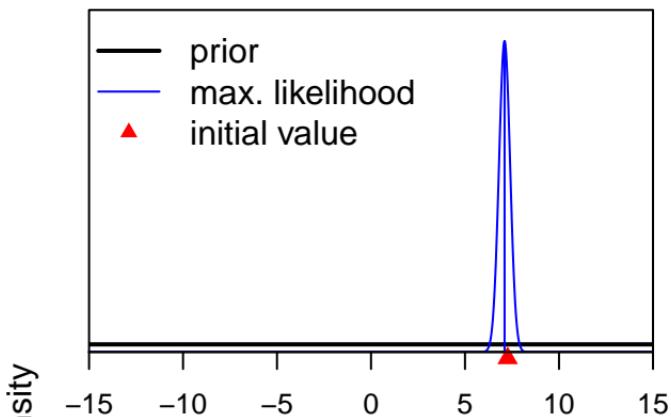


Size\_DbIN\_top\_logit\_A5-LL-n(5)

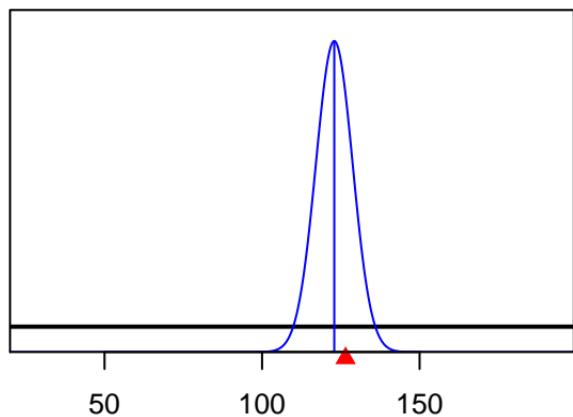


Parameter value

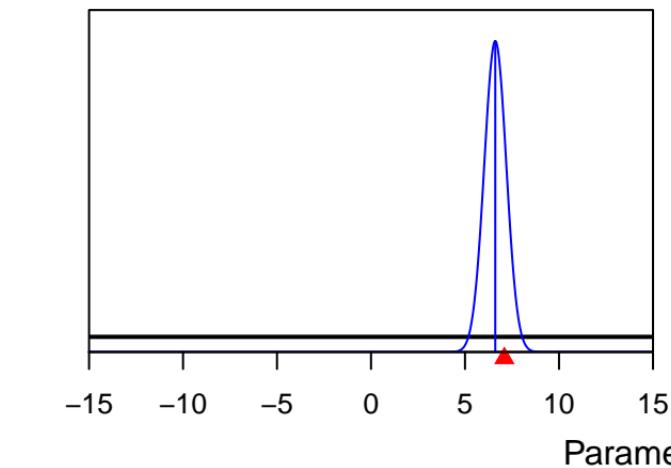
Size\_DbIN\_ascend\_se\_A5-LL-n(5)



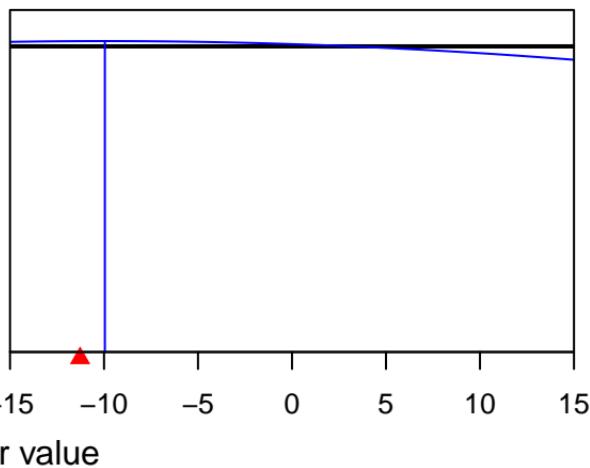
Size\_DbIN\_peak\_A6-LL-n(6)



Size\_DbIN\_descend\_se\_A5-LL-n(5)



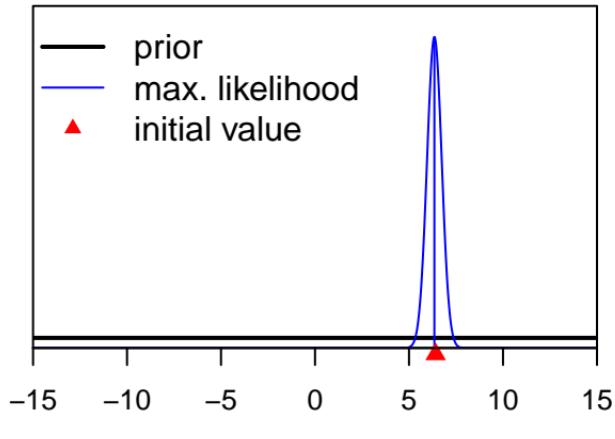
Size\_DbIN\_top\_logit\_A6-LL-n(6)



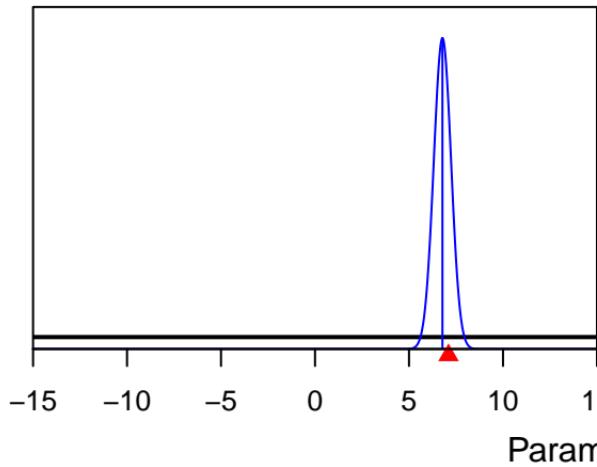
Size\_DbIN\_ascend\_se\_A6-LL-n(6)

Size\_DbIN\_peak\_A2-OBJ(13)

Density

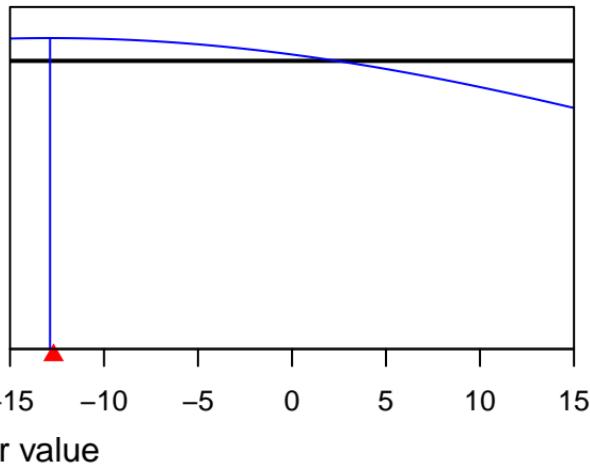


Size\_DbIN\_descend\_se\_A6-LL-n(6)



Parameter value

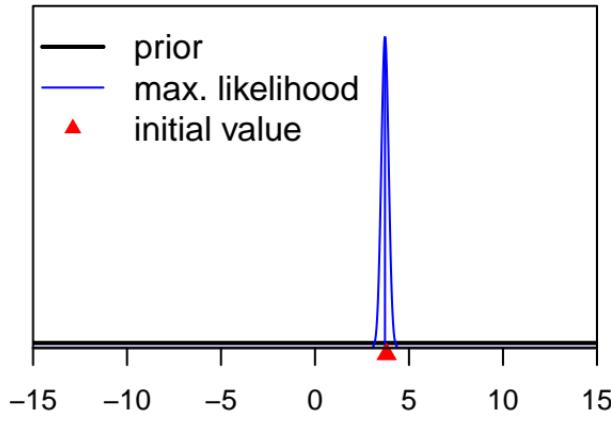
Size\_DbIN\_top\_logit\_A2-OBJ(13)



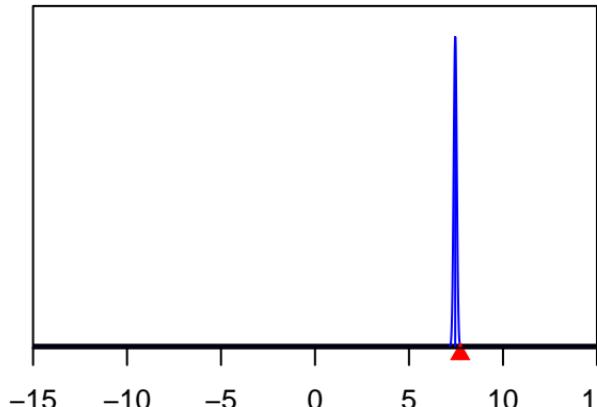
Size\_DbIN\_ascend\_se\_A2-OBJ(13)

Size\_DbIN\_peak\_A3-OBJ(14)

Density

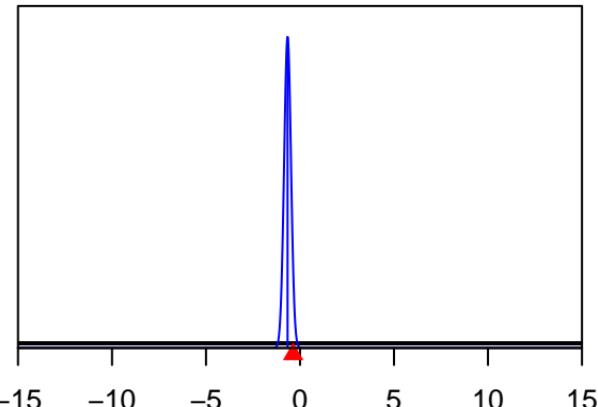


Size\_DbIN\_descend\_se\_A2-OBJ(13)



Parameter value

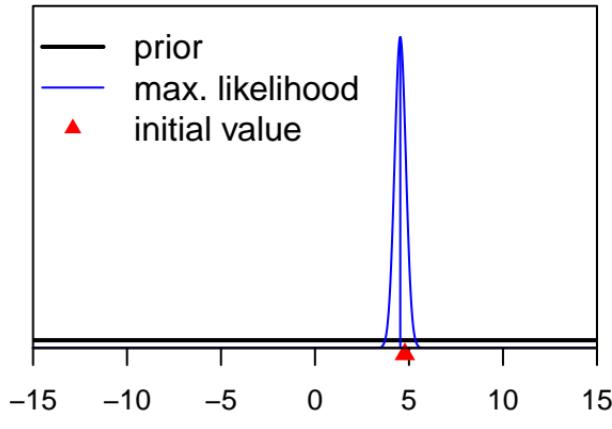
Size\_DbIN\_top\_logit\_A3-OBJ(14)



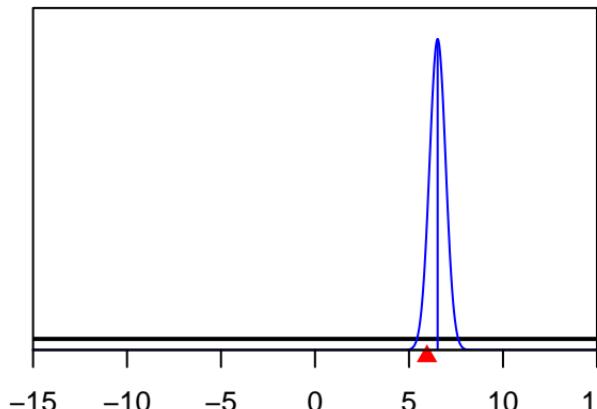
Size\_DbIN\_ascend\_se\_A3-OBJ(14)

Size\_DbIN\_peak\_A4-OBJ(15)

Density

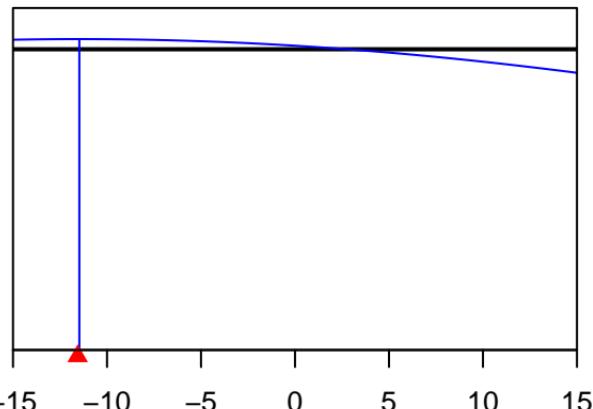


Size\_DbIN\_descend\_se\_A3-OBJ(14)



Parameter value

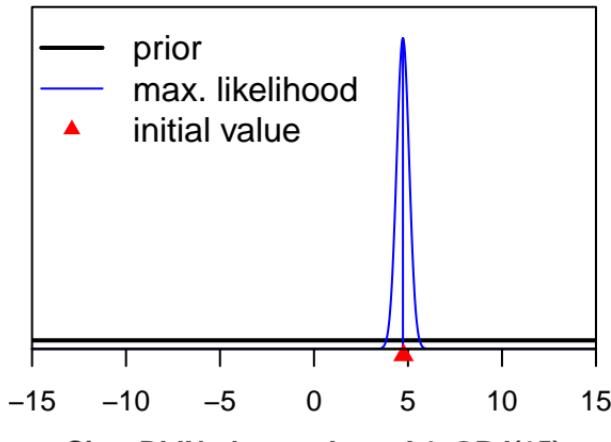
Size\_DbIN\_top\_logit\_A4-OBJ(15)



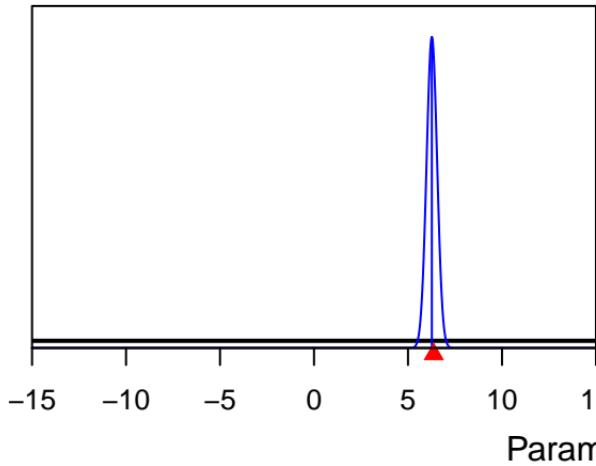
Size\_DbIN\_ascend\_se\_A4-OBJ(15)

SizeSpline\_GradLo\_A5-OBJ(16)

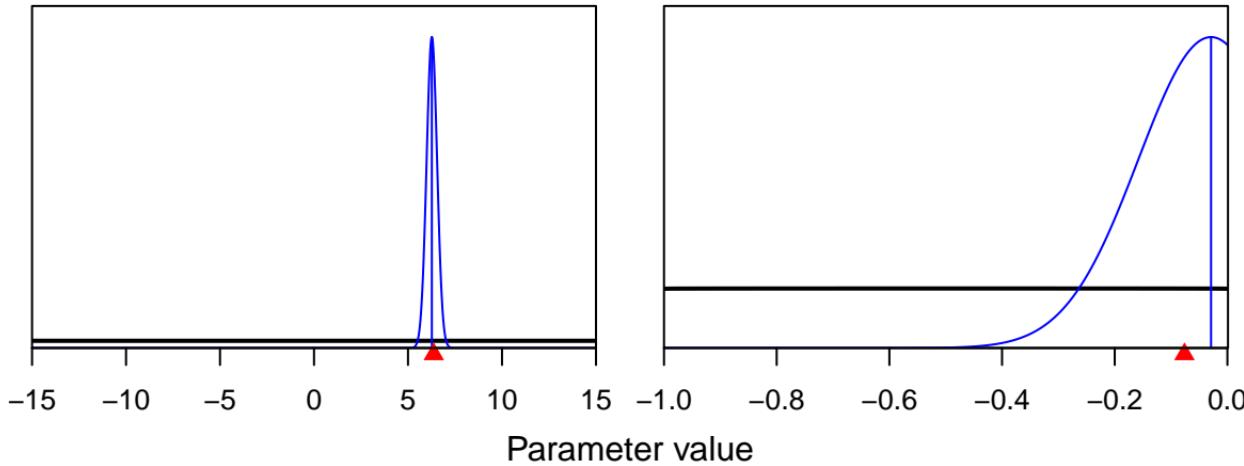
Density



Size\_DbIN\_descend\_se\_A4-OBJ(15)



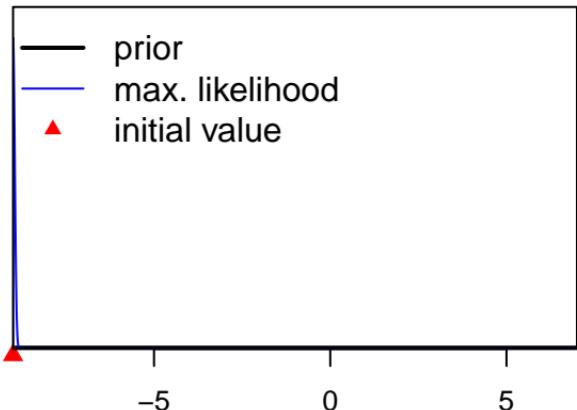
SizeSpline\_GradHi\_A5-OBJ(16)



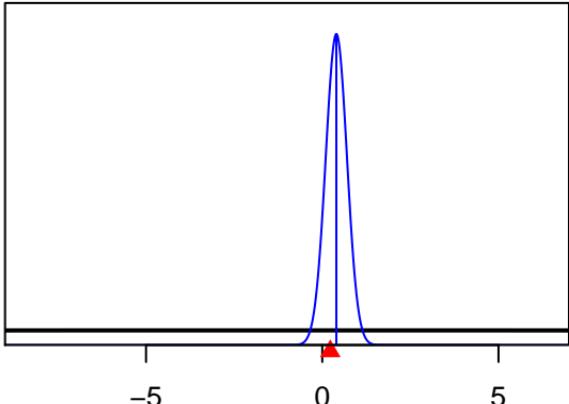
Parameter value

SizeSpline\_Val\_1\_A5–OBJ(16)

Density

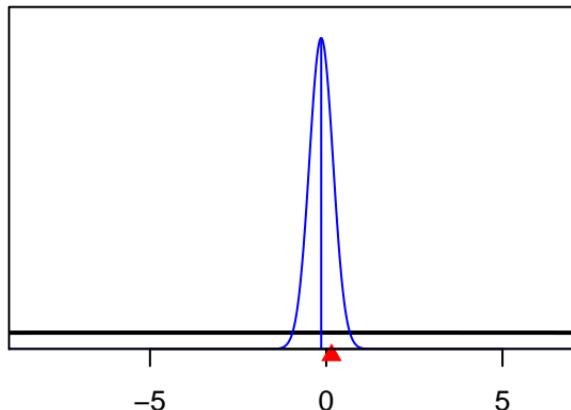


SizeSpline\_Val\_2\_A5–OBJ(16)

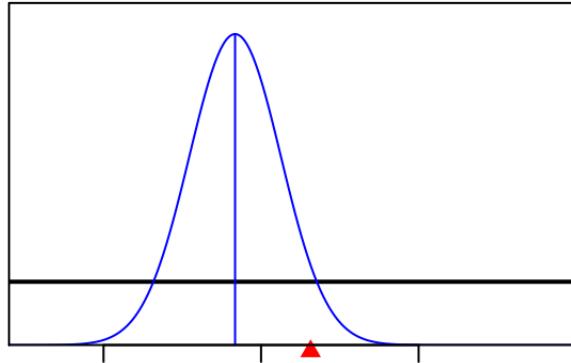


Parameter value

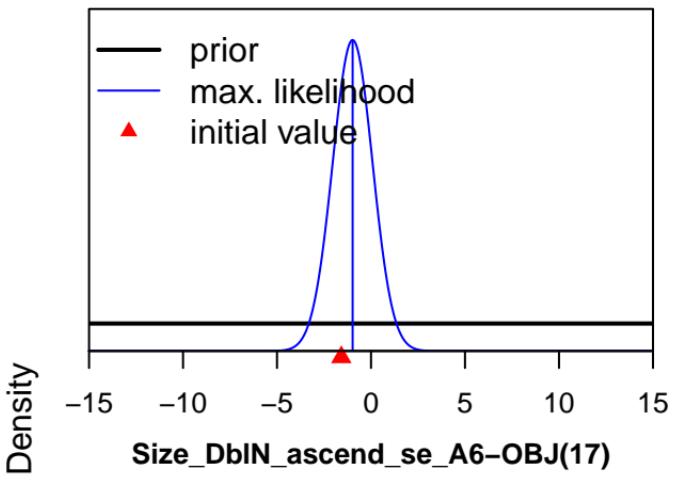
SizeSpline\_Val\_4\_A5–OBJ(16)



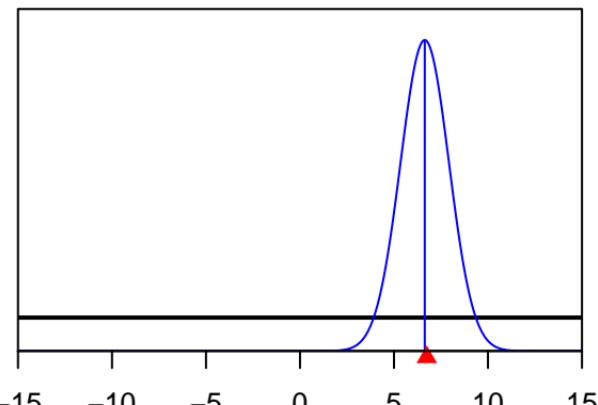
Size\_DbIN\_peak\_A6–OBJ(17)



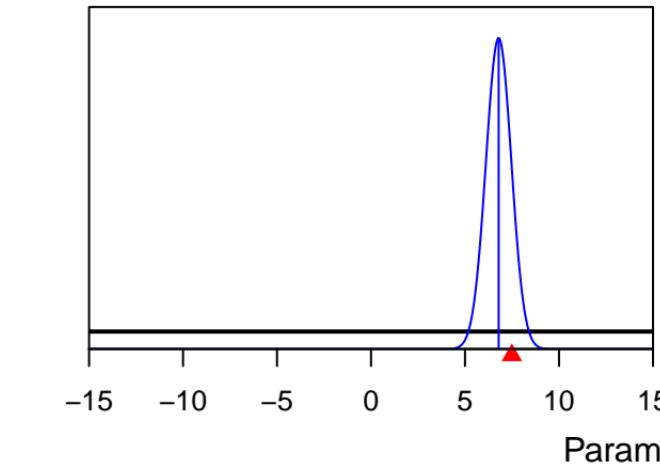
Size\_DbIN\_top\_logit\_A6-OBJ(17)



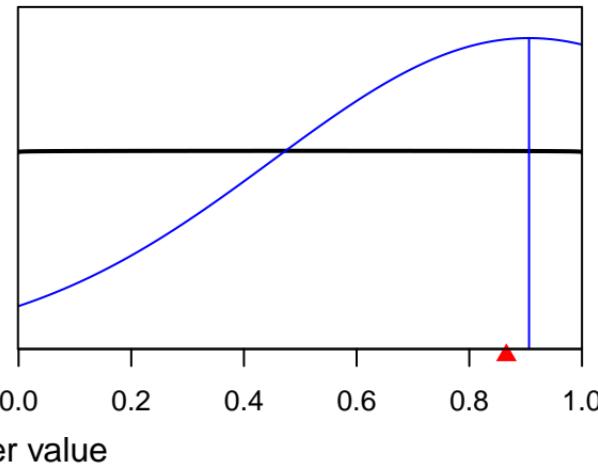
Size\_DbIN\_descend\_se\_A6-OBJ(17)



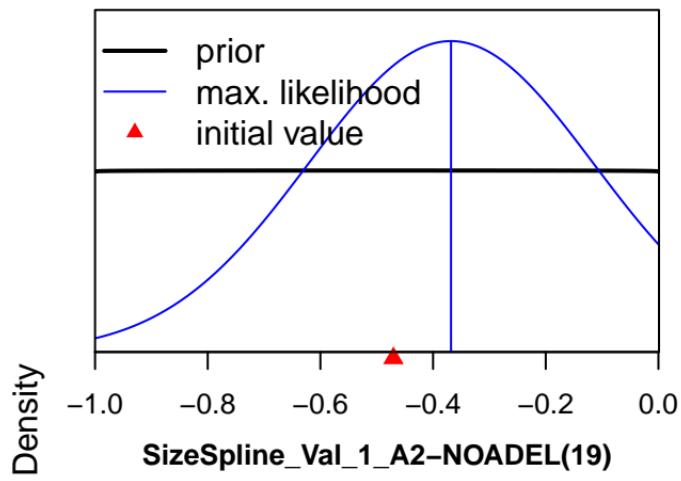
Size\_DbIN\_ascend\_se\_A6-OBJ(17)



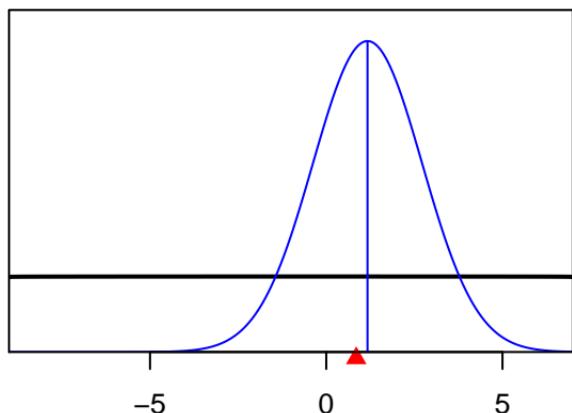
SizeSpline\_GradLo\_A2-NOADEL(19)



**SizeSpline\_GradHi\_A2-NOADEL(19)**

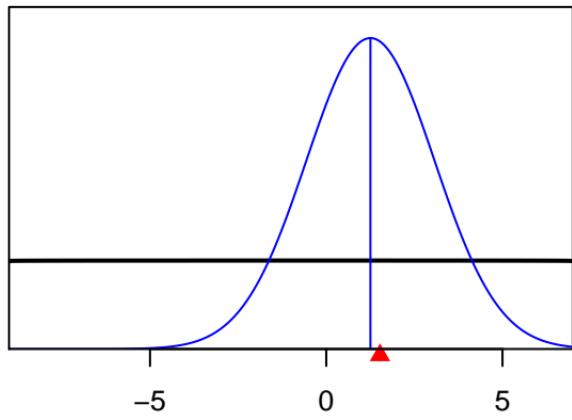
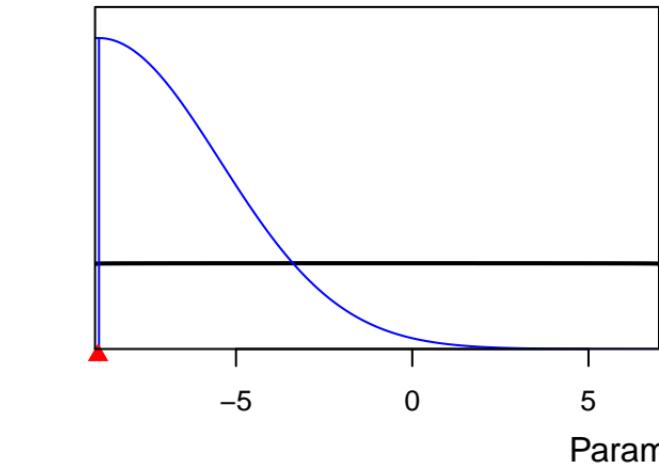


**SizeSpline\_Val\_2\_A2-NOADEL(19)**



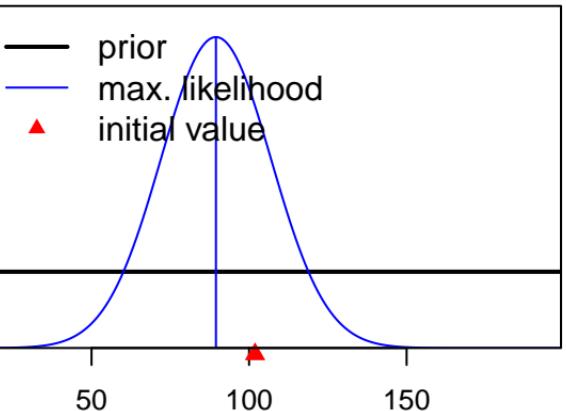
**SizeSpline\_Val\_1\_A2-NOADEL(19)**

**SizeSpline\_Val\_4\_A2-NOADEL(19)**

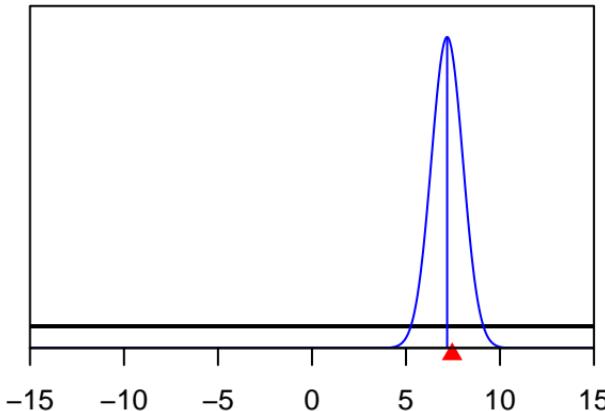


Parameter value

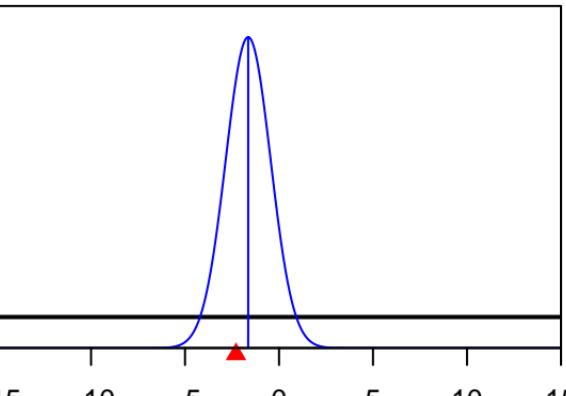
Size\_DbIN\_peak\_A3-NOADEL(20)



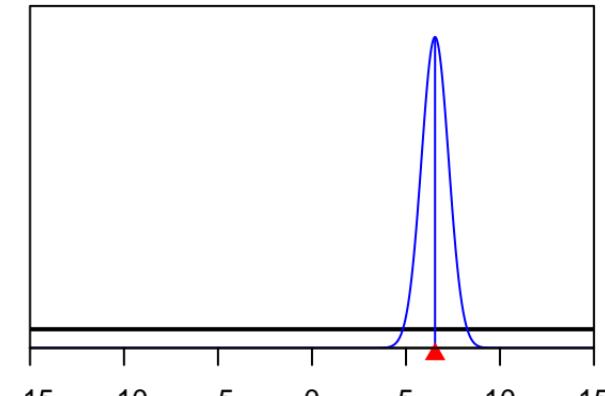
Size\_DbIN\_ascend\_se\_A3-NOADEL(20)



Size\_DbIN\_top\_logit\_A3-NOADEL(20)

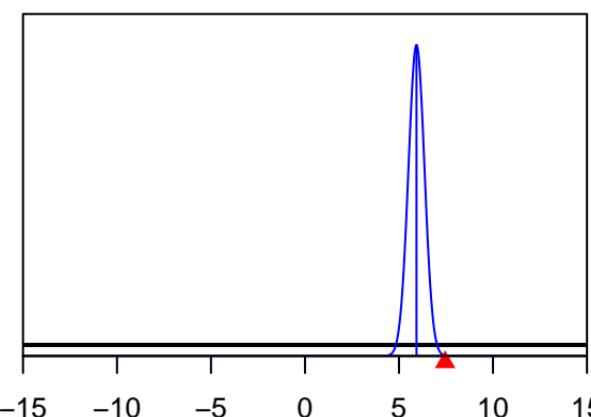
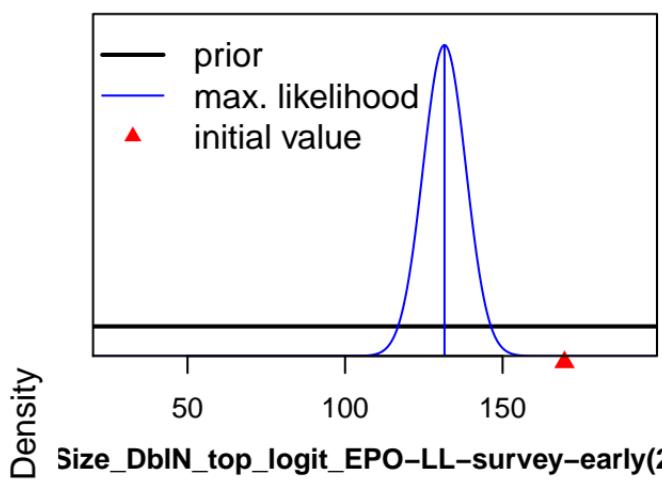


Size\_DbIN\_descend\_se\_A3-NOADEL(20)

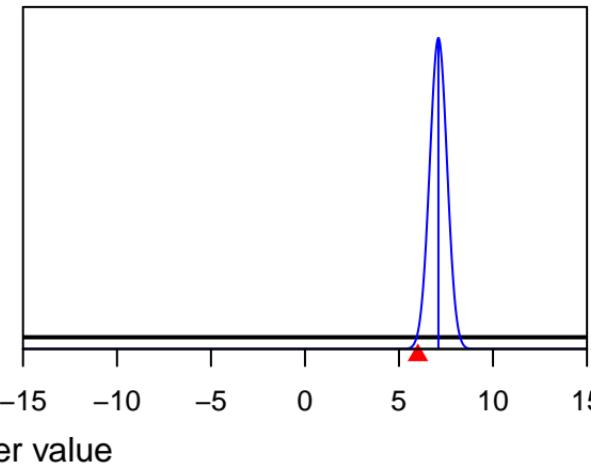
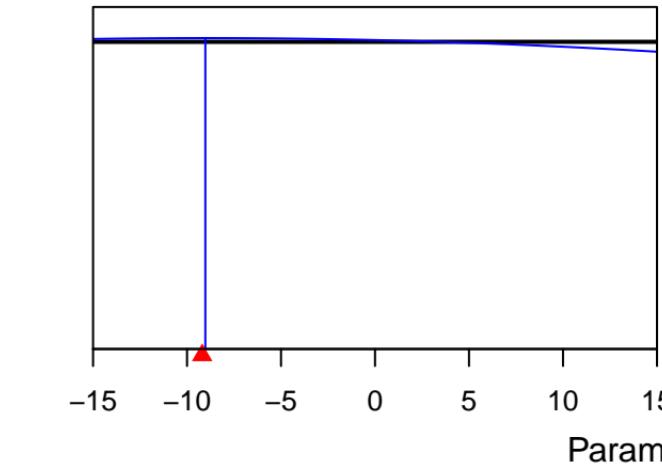


Parameter value

Size\_DbIN\_peak\_EPO-LL-survey-early(24) size\_DbIN\_ascend\_se\_EPO-LL-survey-early(24)



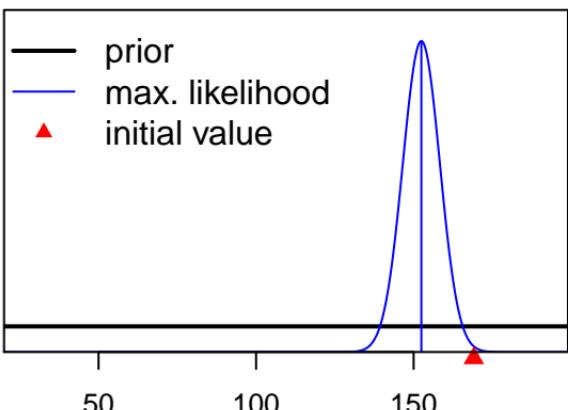
Size\_DbIN\_top\_logit\_EPO-LL-survey-early(24) size\_DbIN\_descend\_se\_EPO-LL-survey-early(24)



Size\_DbIN\_peak\_EPO-LL-survey-late(25)

Size\_DbIN\_ascend\_se\_EPO-LL-survey-late(25)

Density

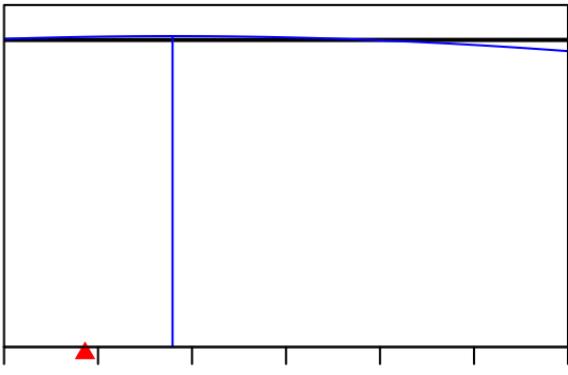


-15 -10 -5 0 5 10 15

Size\_DbIN\_top\_logit\_EPO-LL-survey-late(25) Size\_DbIN\_descend\_se\_EPO-LL-survey-late(25)

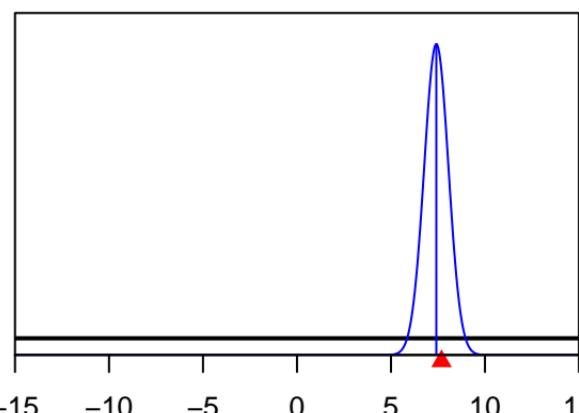
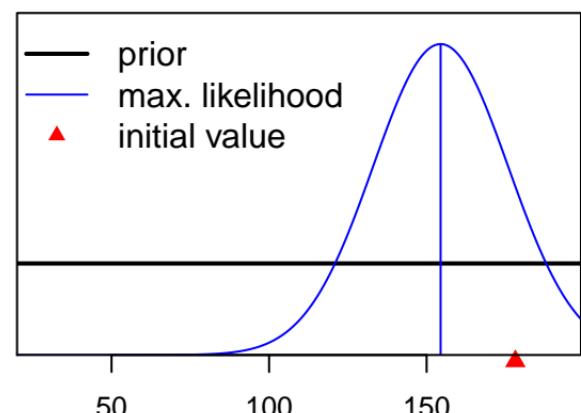
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Parameter value

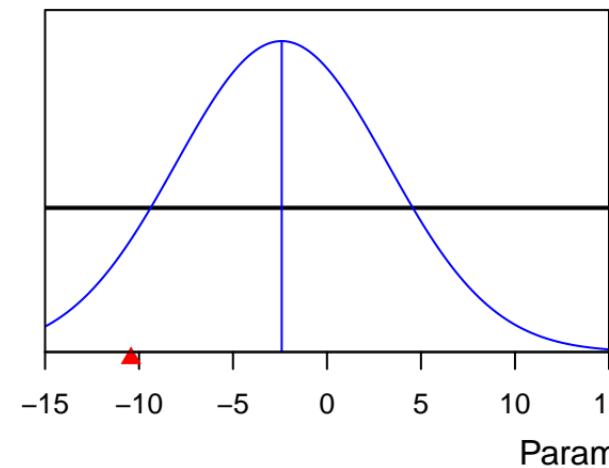
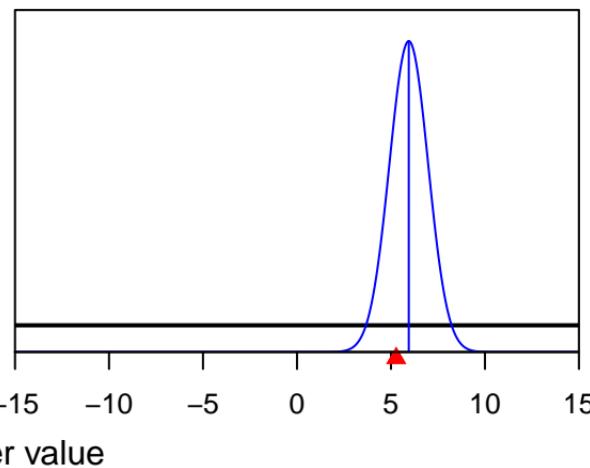


-15 -10 -5 0 5 10 15

Size\_DbIN\_peak\_A2-LL-n(2)\_BLK2repl\_17

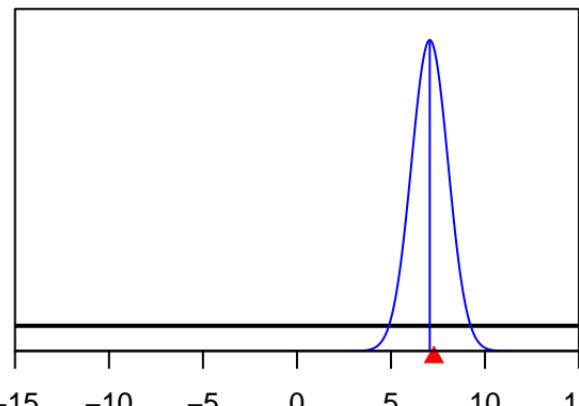
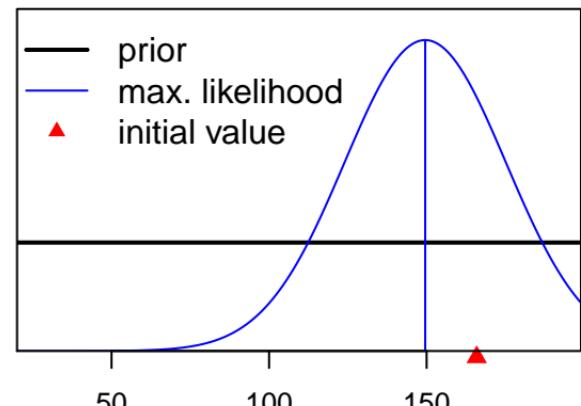


Size\_DbIN\_top\_logit\_A2-LL-n(2)\_BLK2repl\_17

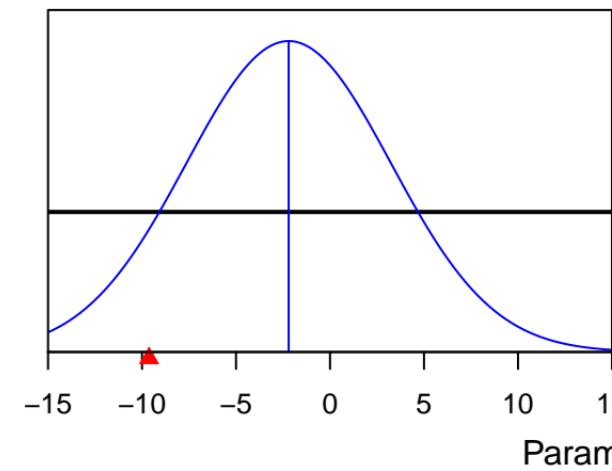
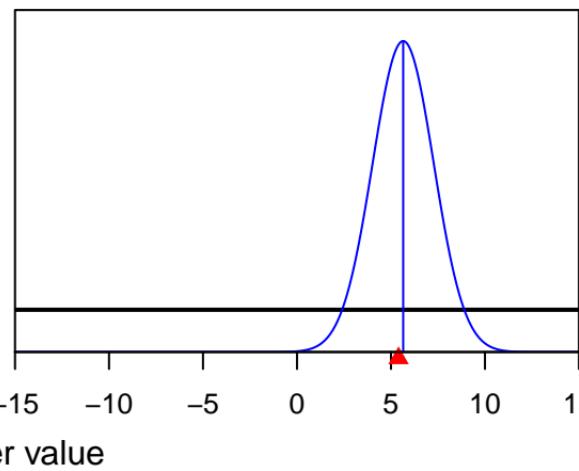


Parameter value

Size\_DbIN\_peak\_A3-LL-n(3)\_BLK2repl\_17

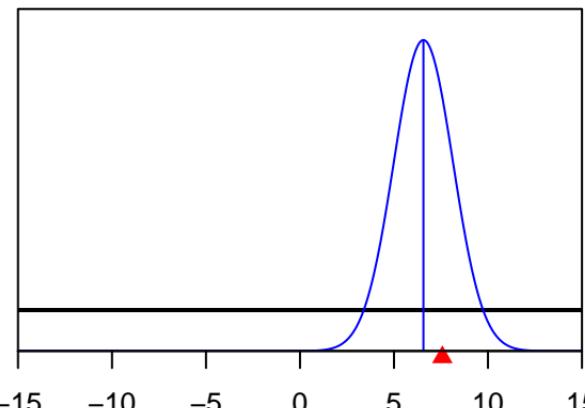
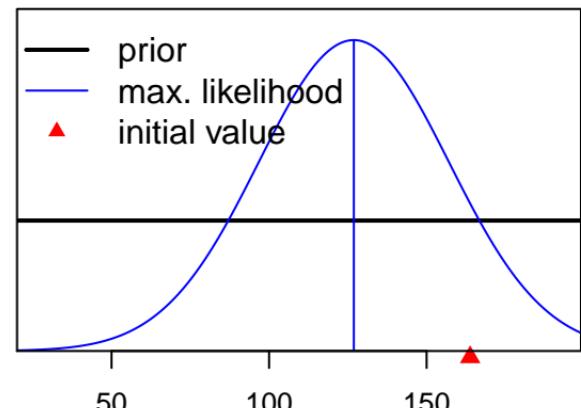


Size\_DbIN\_top\_logit\_A3-LL-n(3)\_BLK2repl\_17

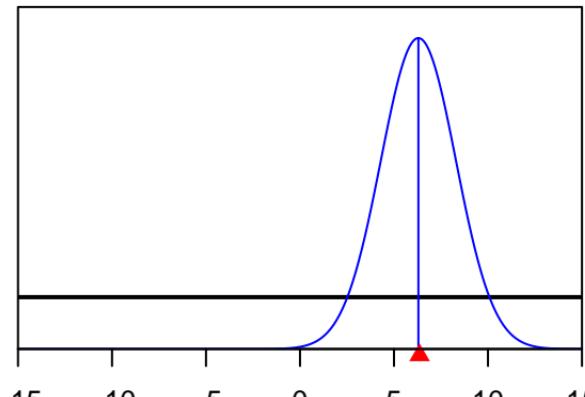
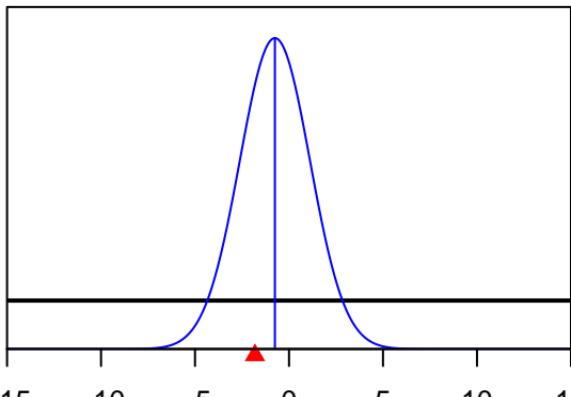


Parameter value

Size\_DbIN\_peak\_A4-LL-n(4)\_BLK2repl\_17

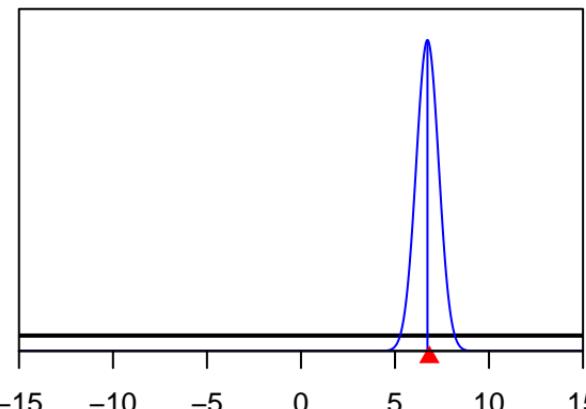
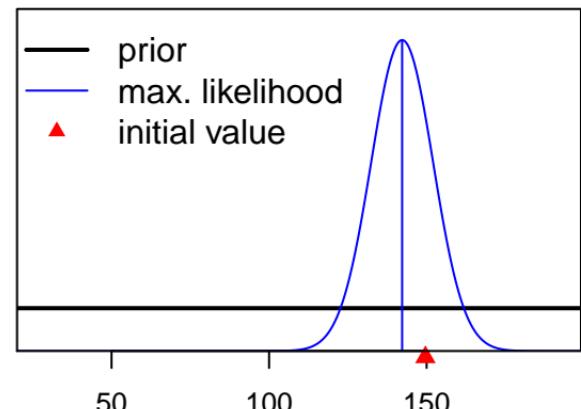


Size\_DbIN\_top\_logit\_A4-LL-n(4)\_BLK2repl\_17

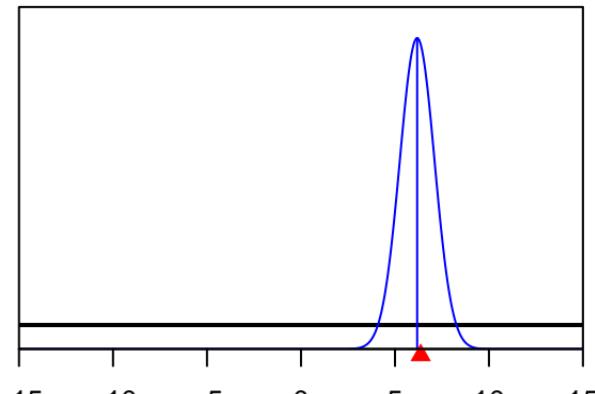
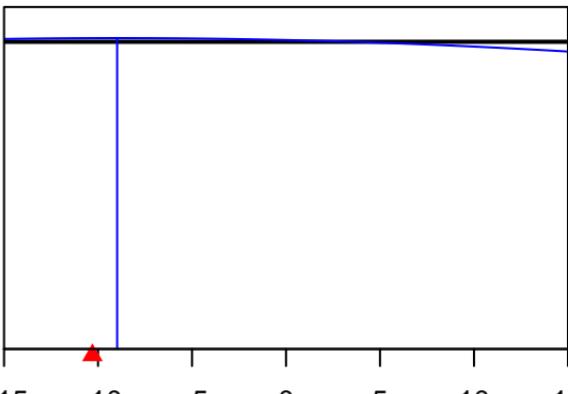


Parameter value

Size\_DbIN\_peak\_A5-LL-n(5)\_BLK2repl\_17

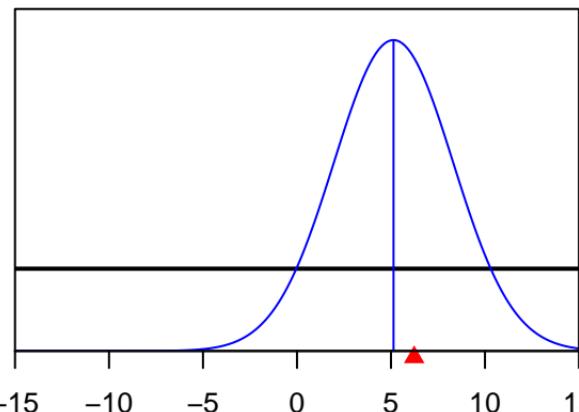
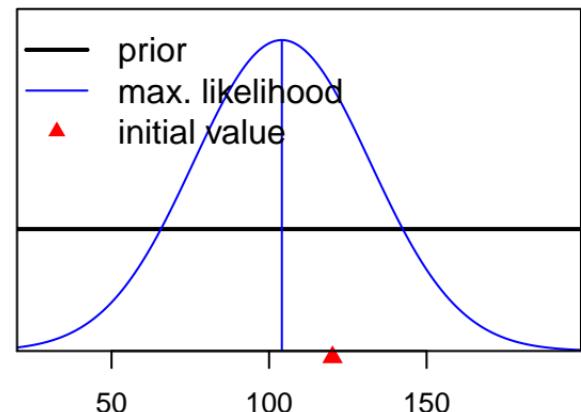


Size\_DbIN\_top\_logit\_A5-LL-n(5)\_BLK2repl\_17

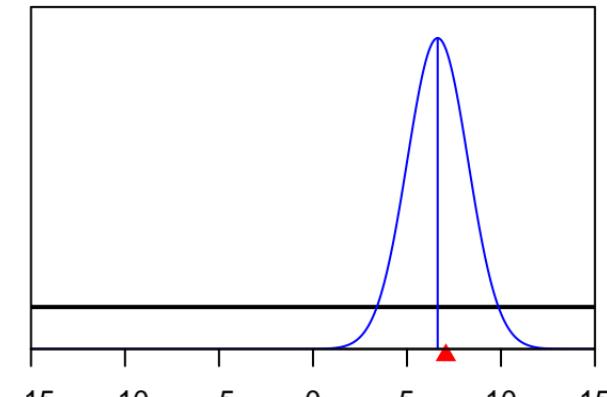
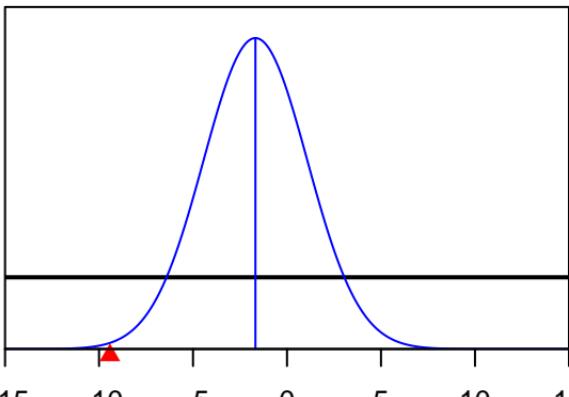


Parameter value

Size\_DbIN\_peak\_A6-LL-n(6)\_BLK2repl\_17



Size\_DbIN\_top\_logit\_A6-LL-n(6)\_BLK2repl\_17



Parameter value