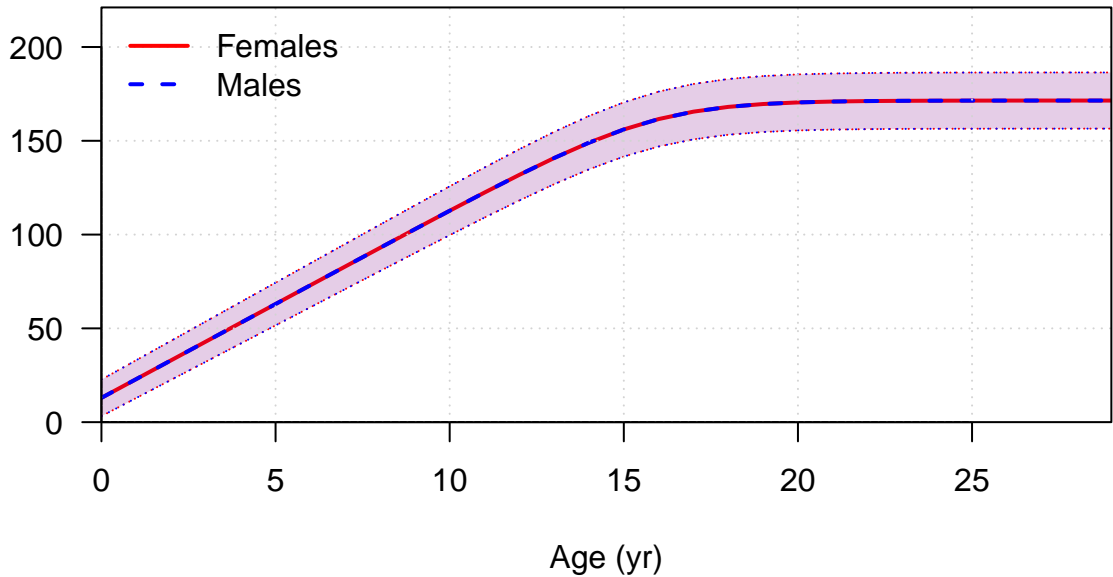
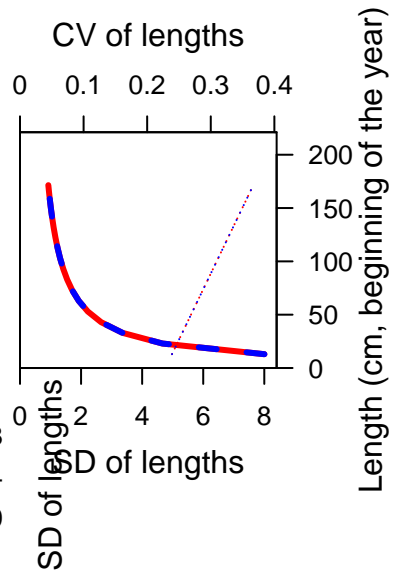
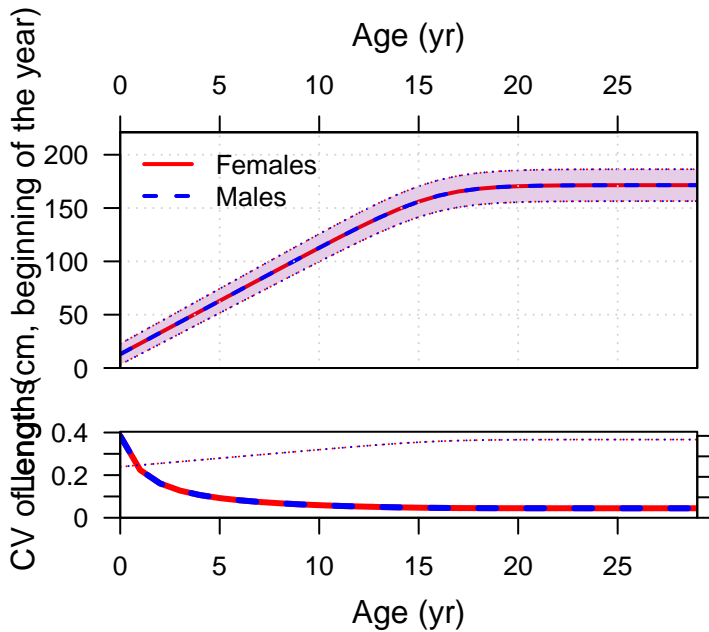
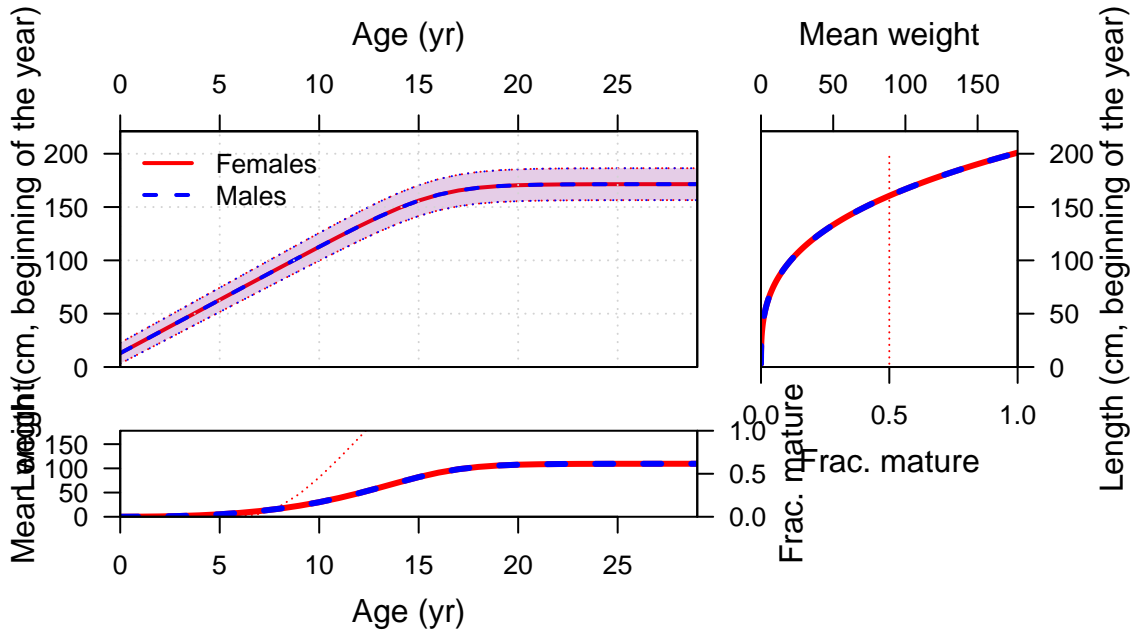


Plots created using the 'r4ss' package in R  
Stock Synthesis version: 3.30.22.b  
StartTime: Sun Jun 9 14:24:35 2024  
Data\_File: YFT-EPO.dat  
Control\_File: YFT-EPO.ctl

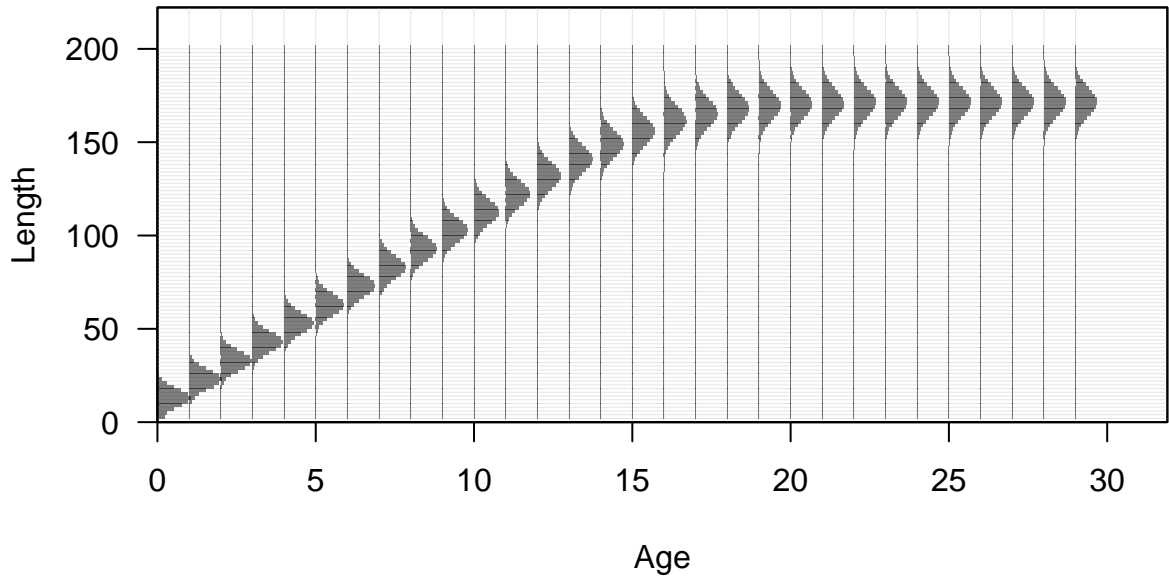
Length (cm, beginning of the year)

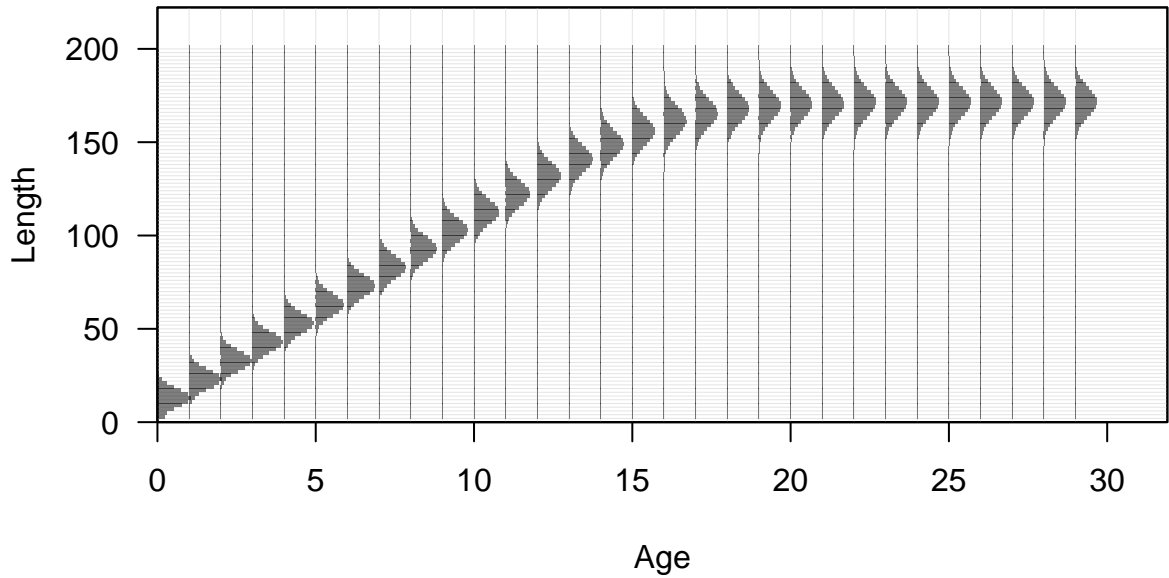


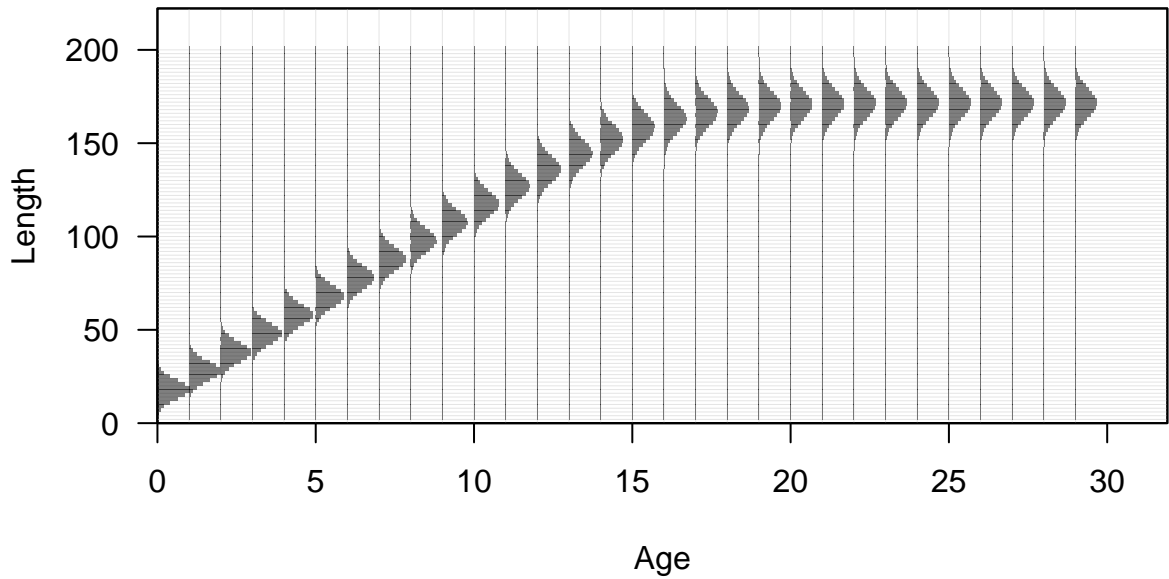


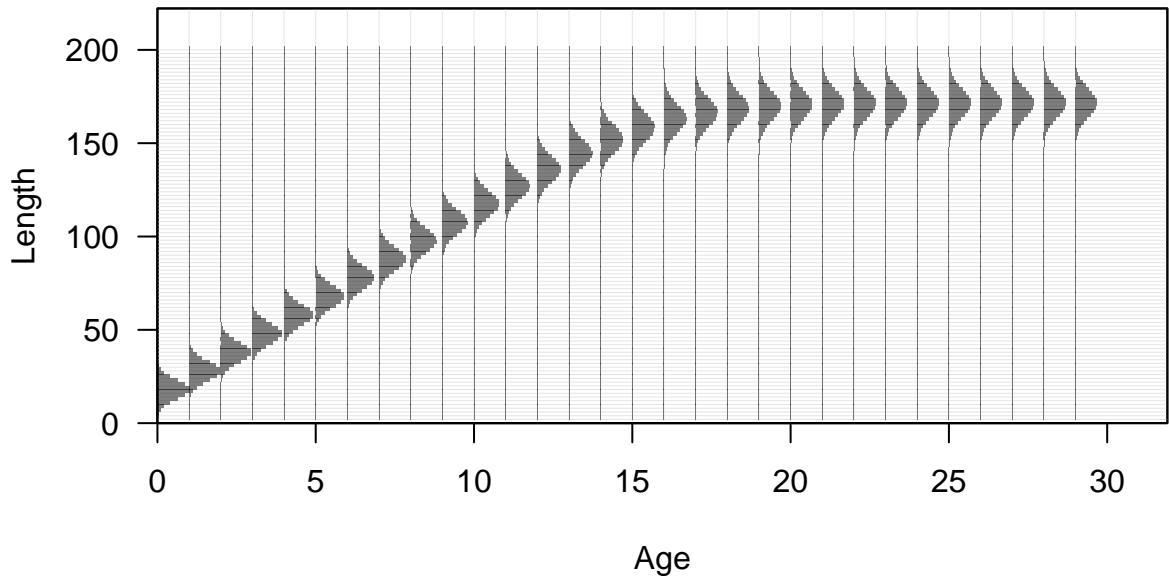


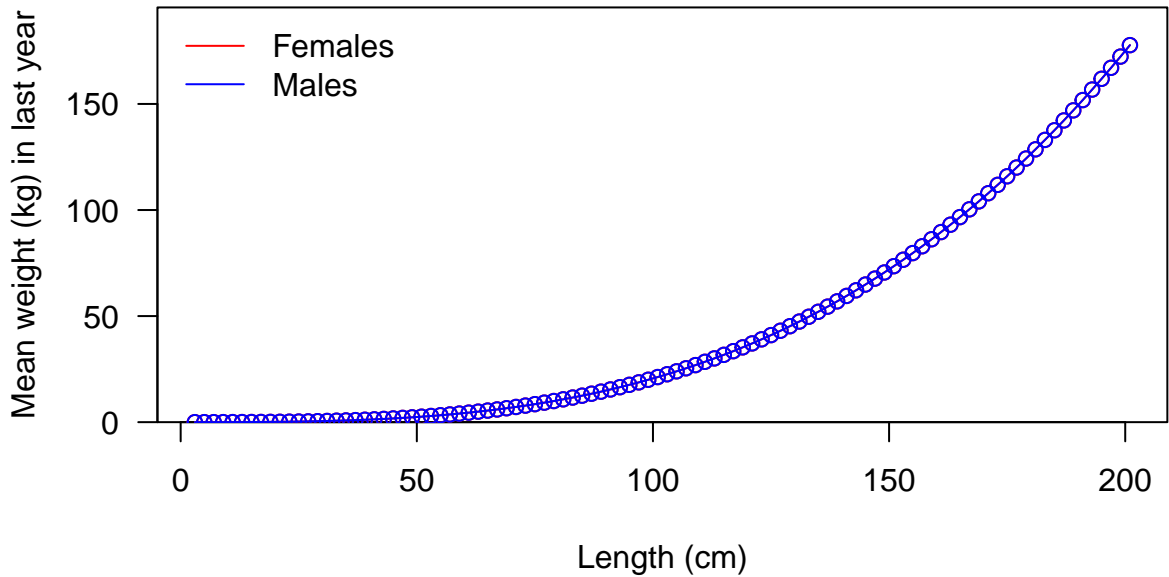


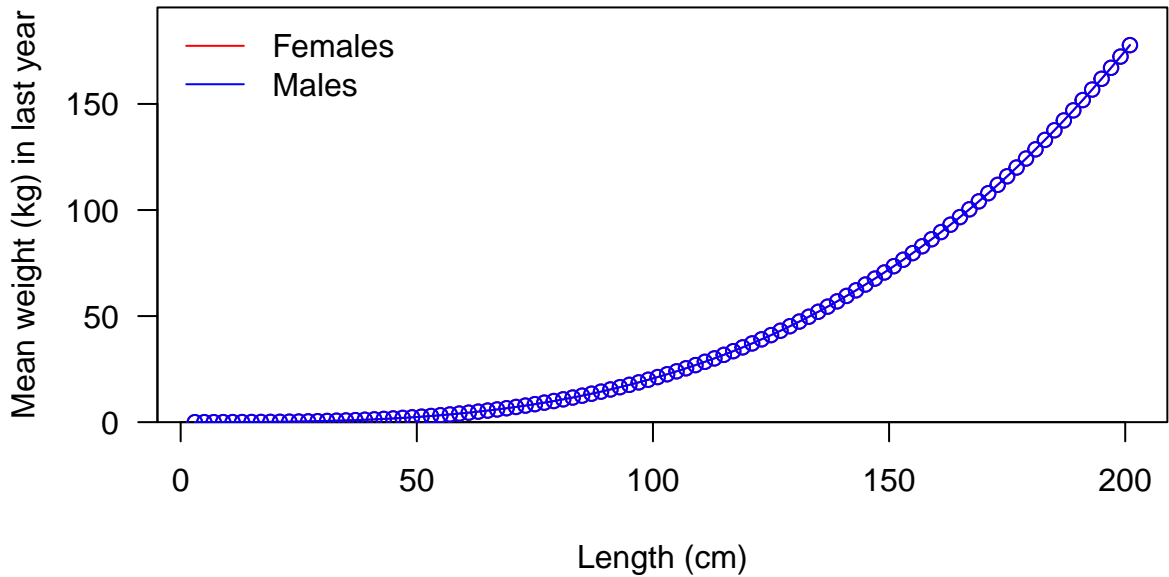


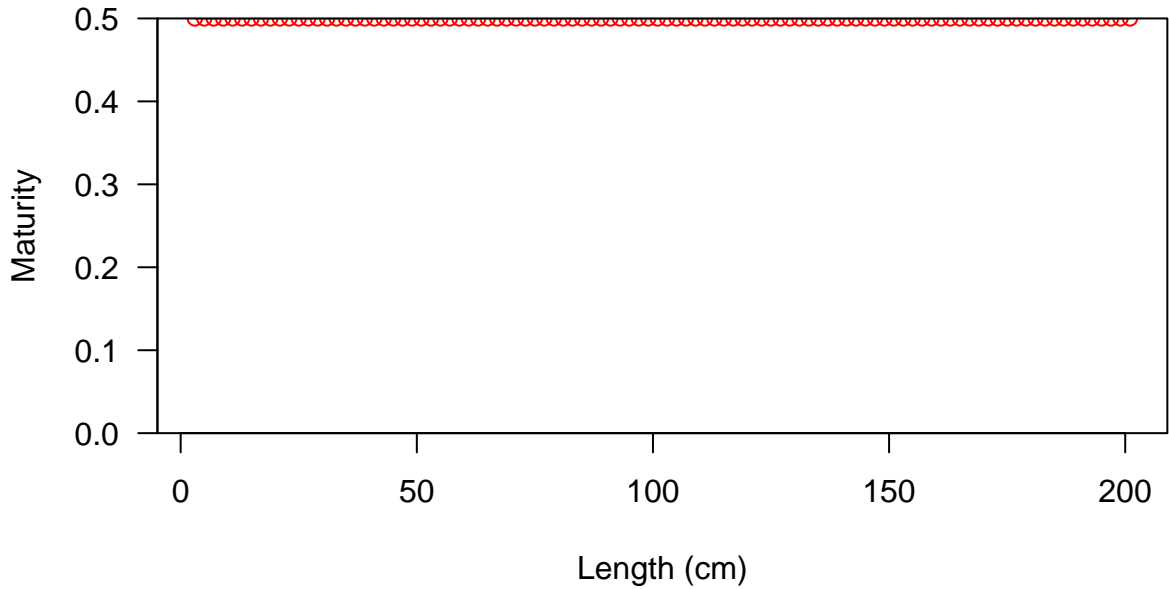


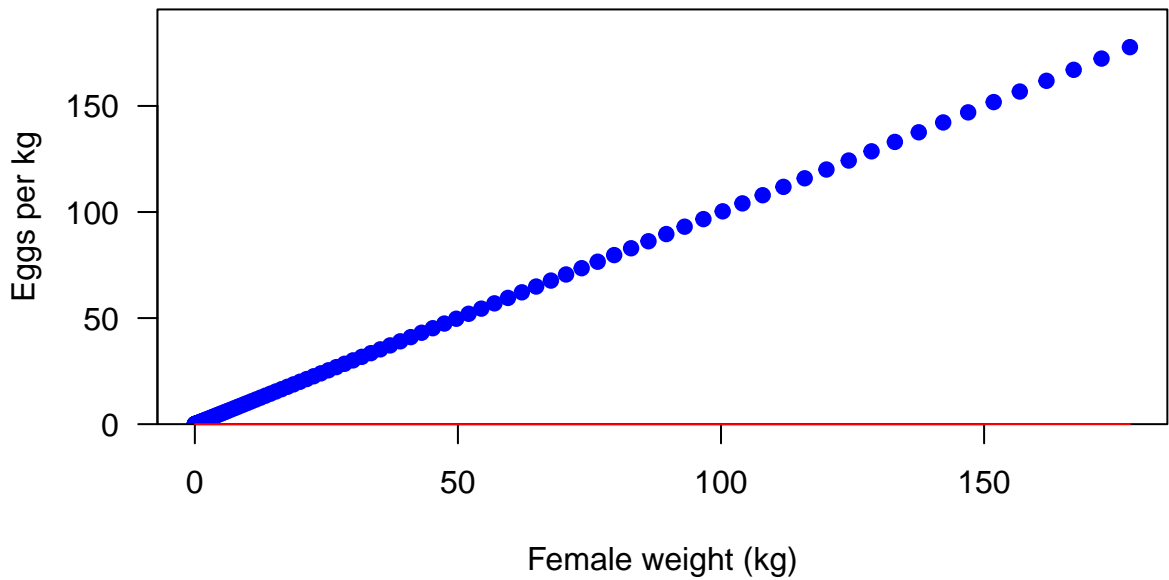




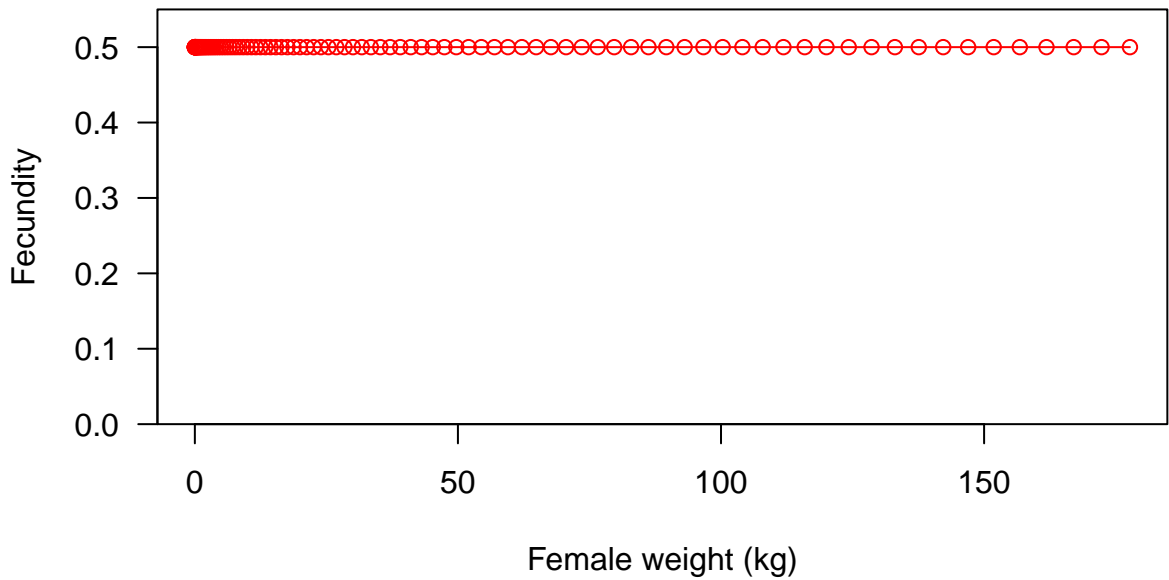


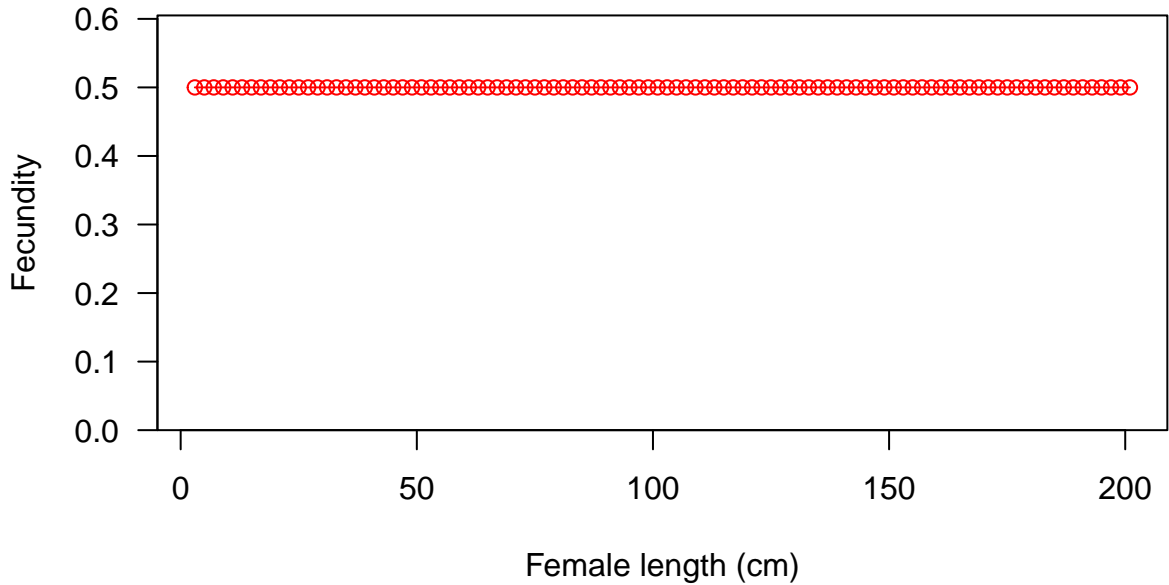


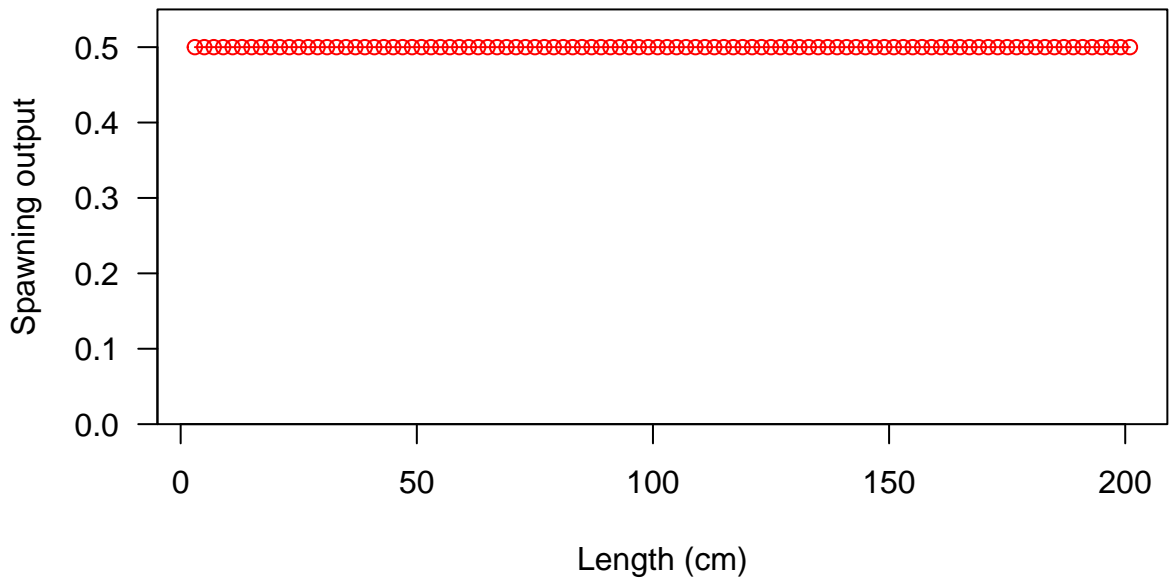




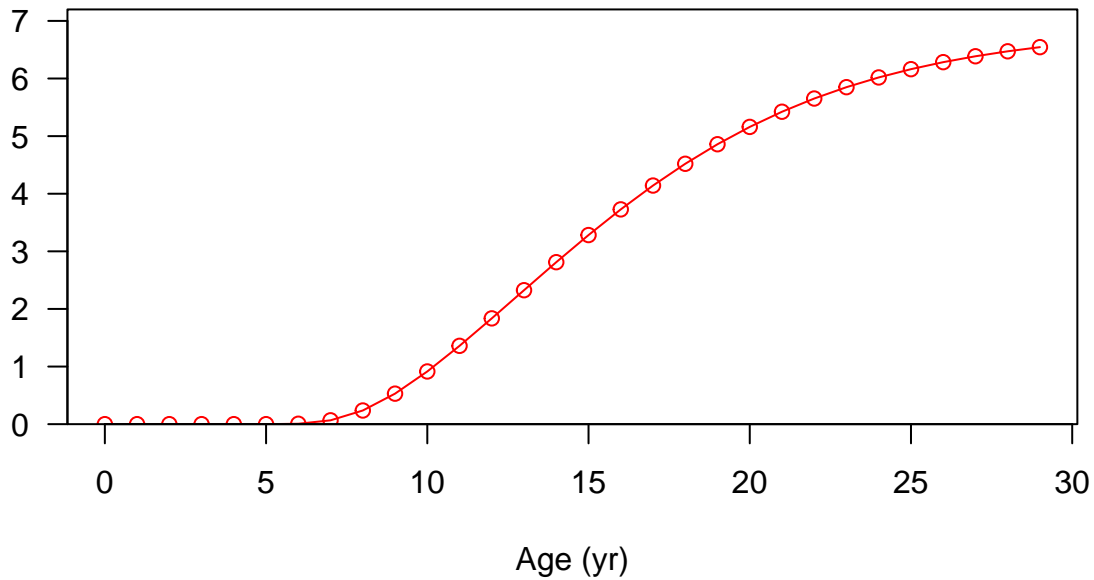




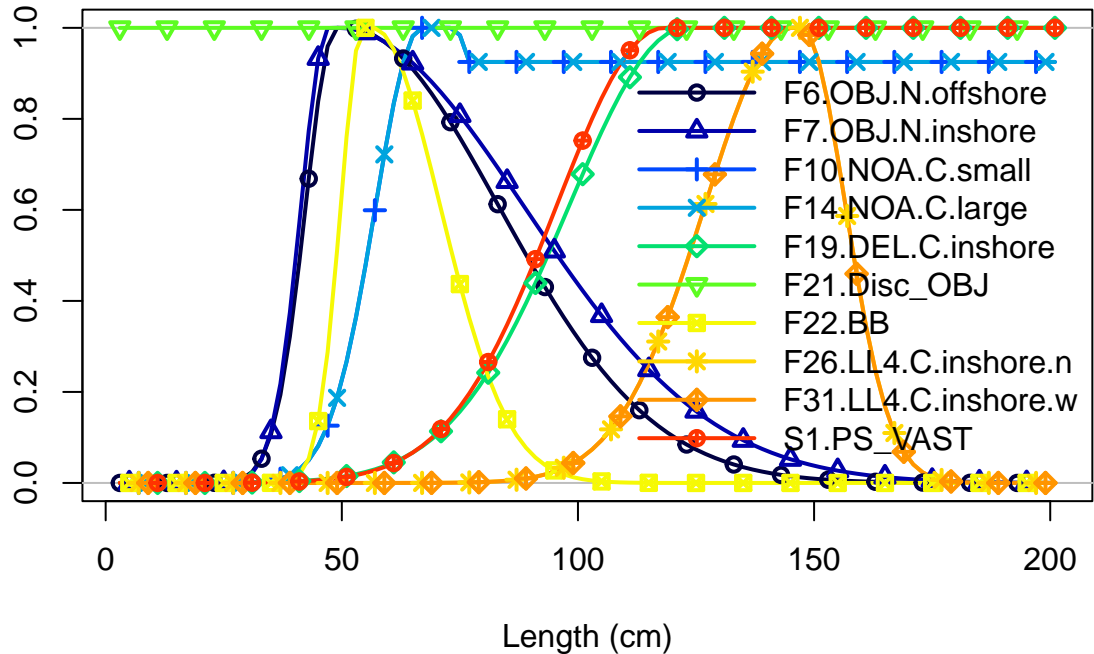




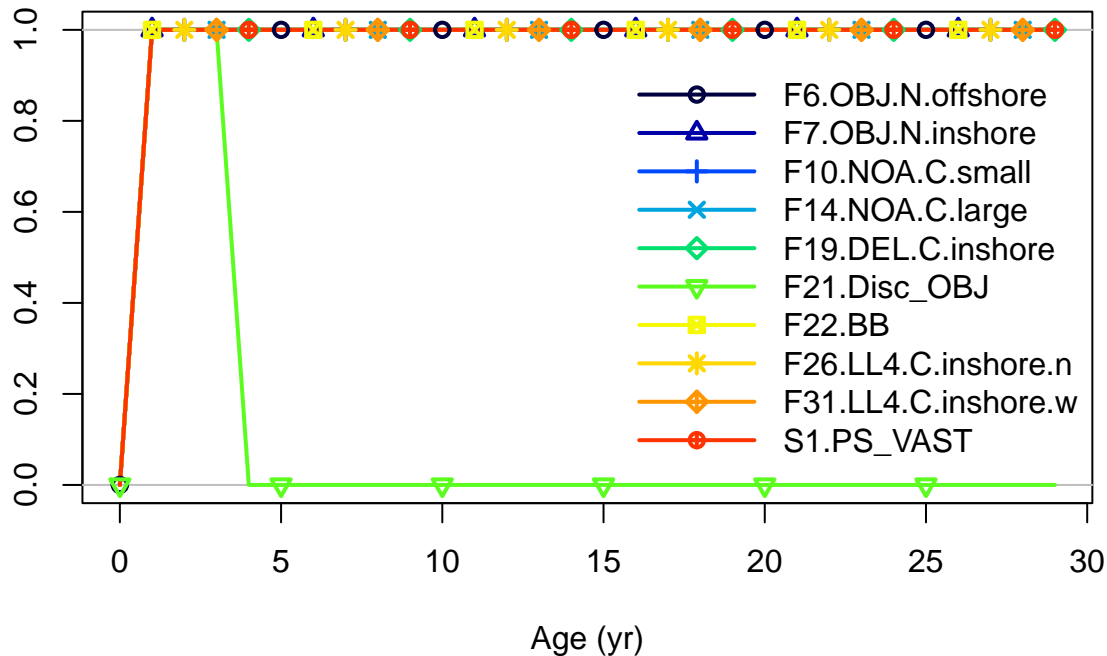
Spawning output



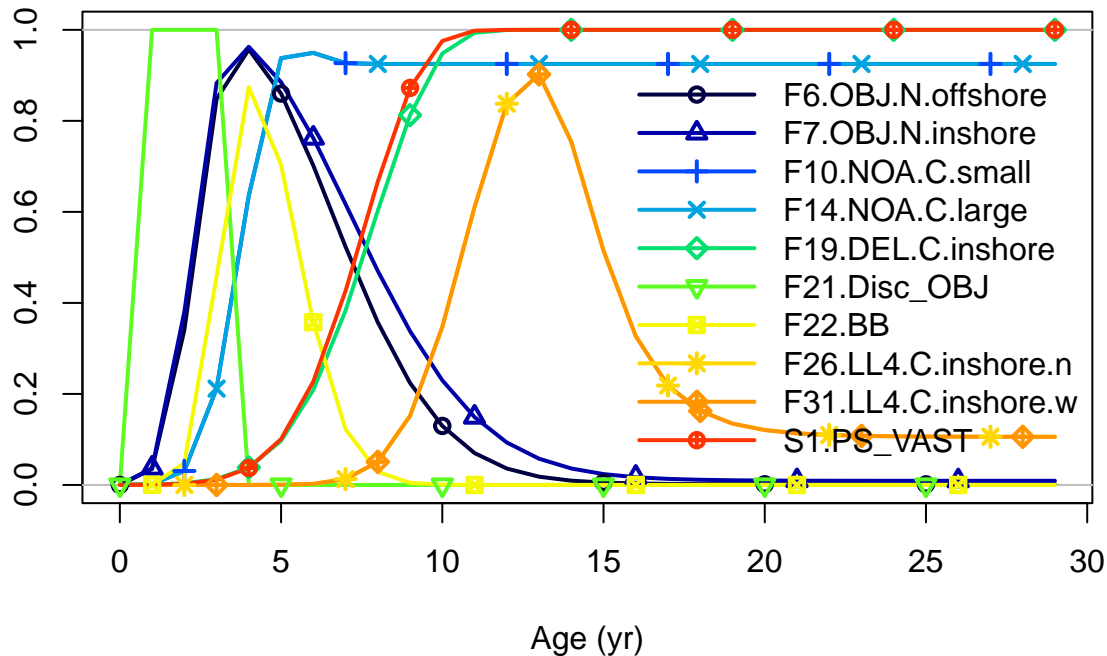
Selectivity



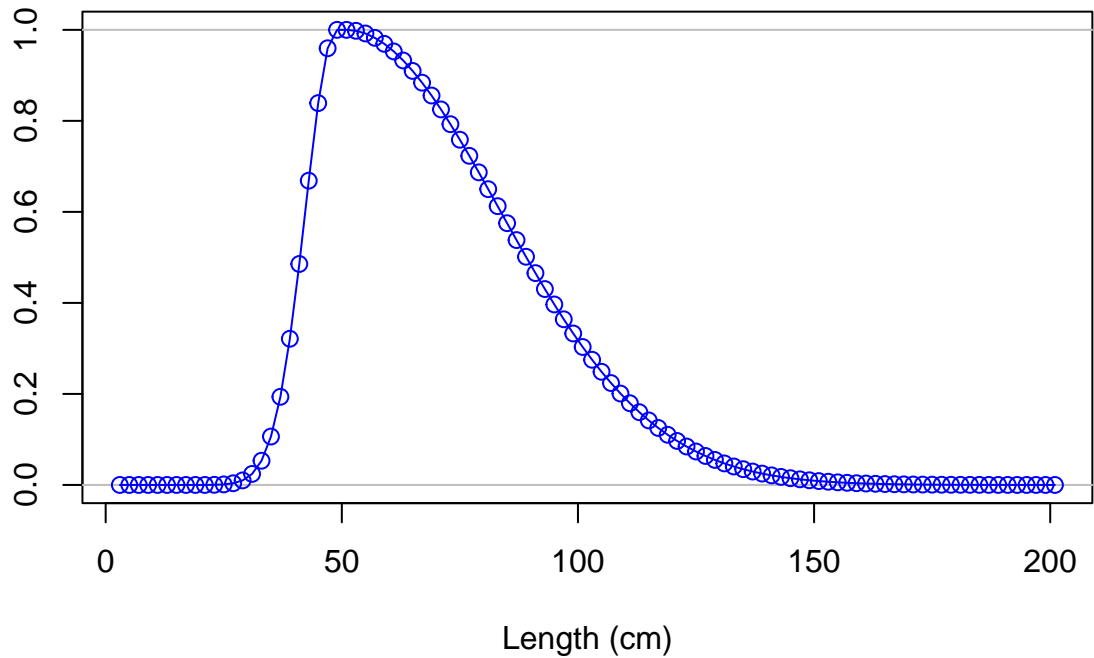
Selectivity



Selectivity

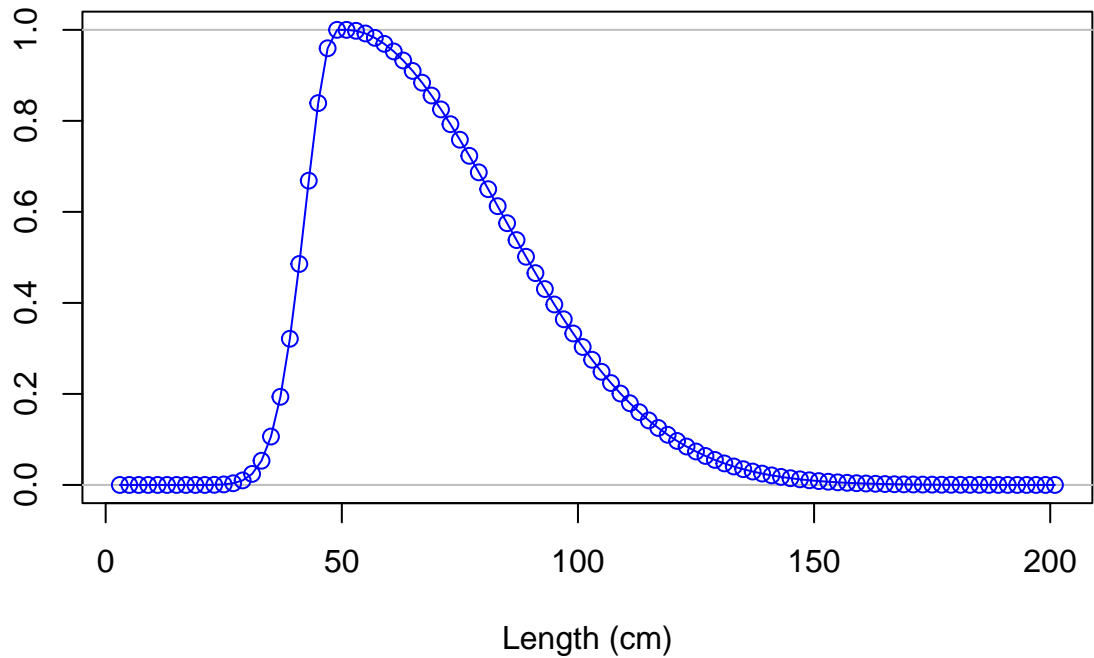


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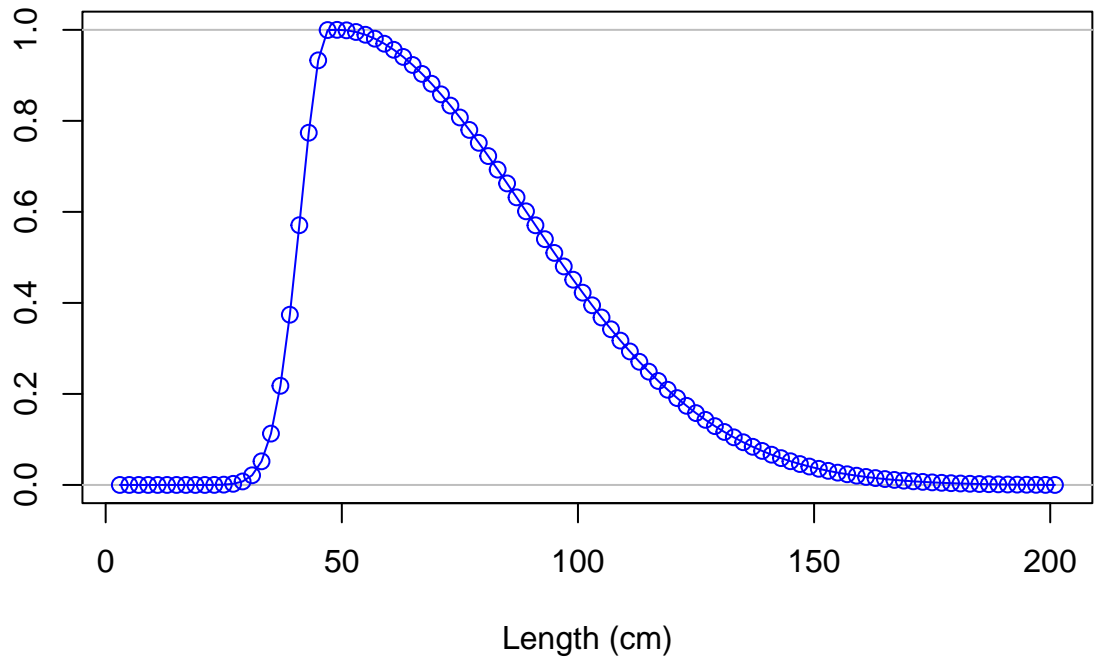




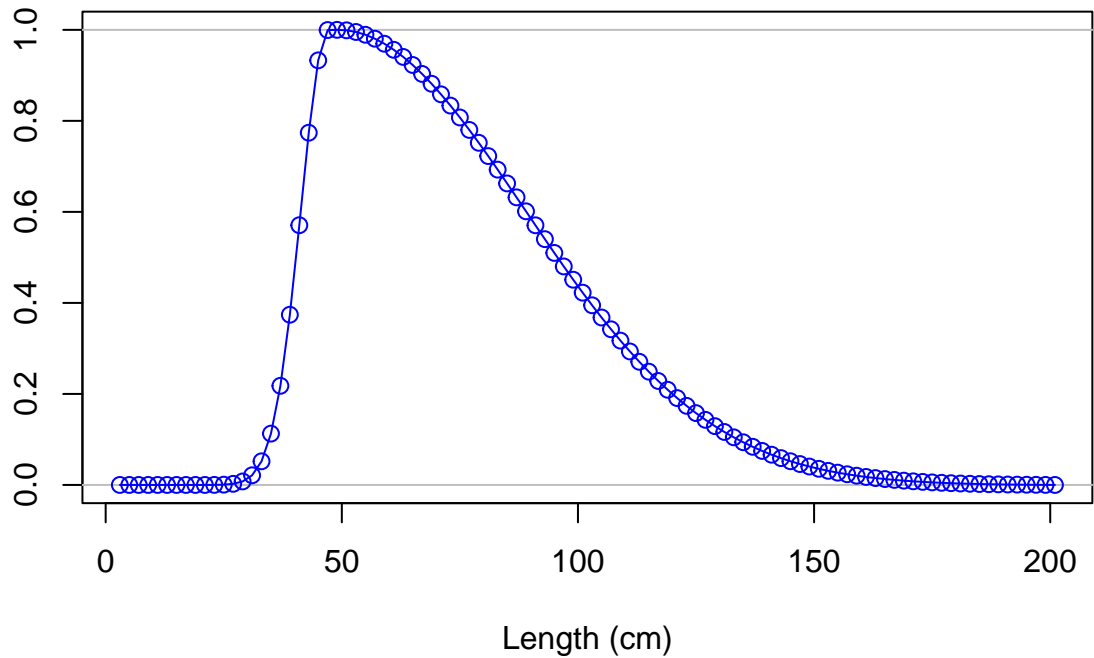
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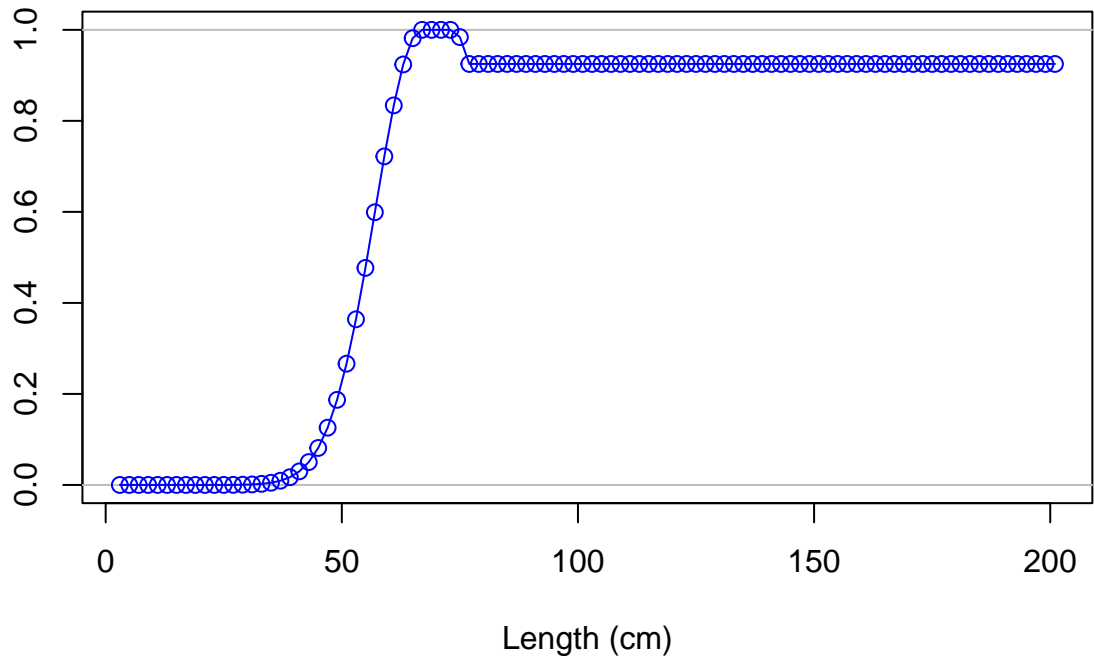
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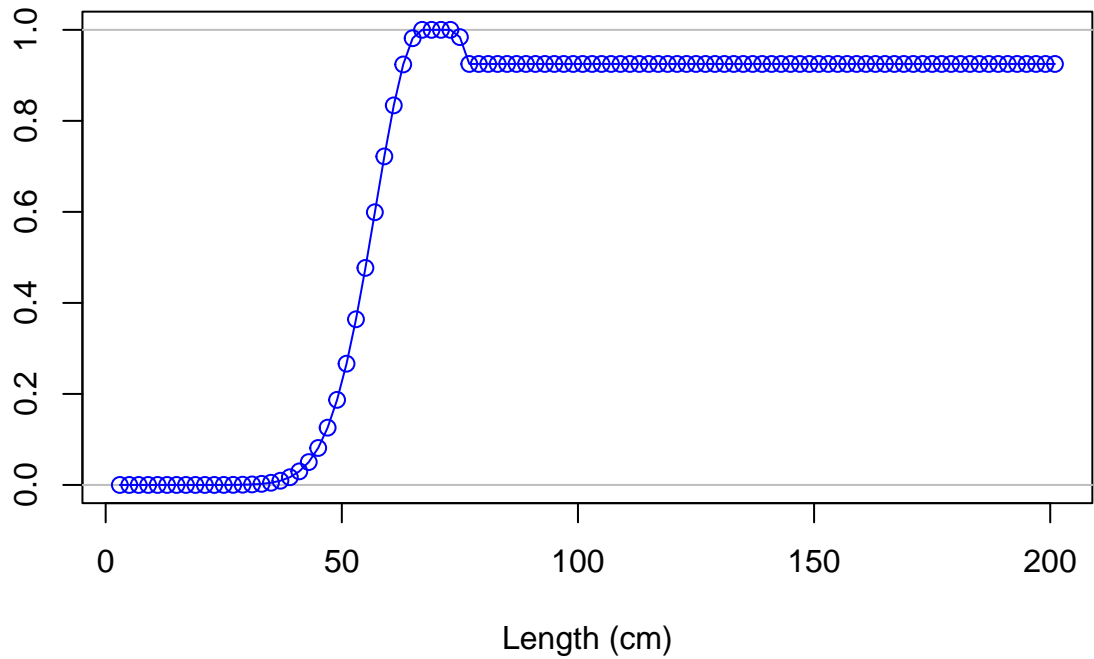
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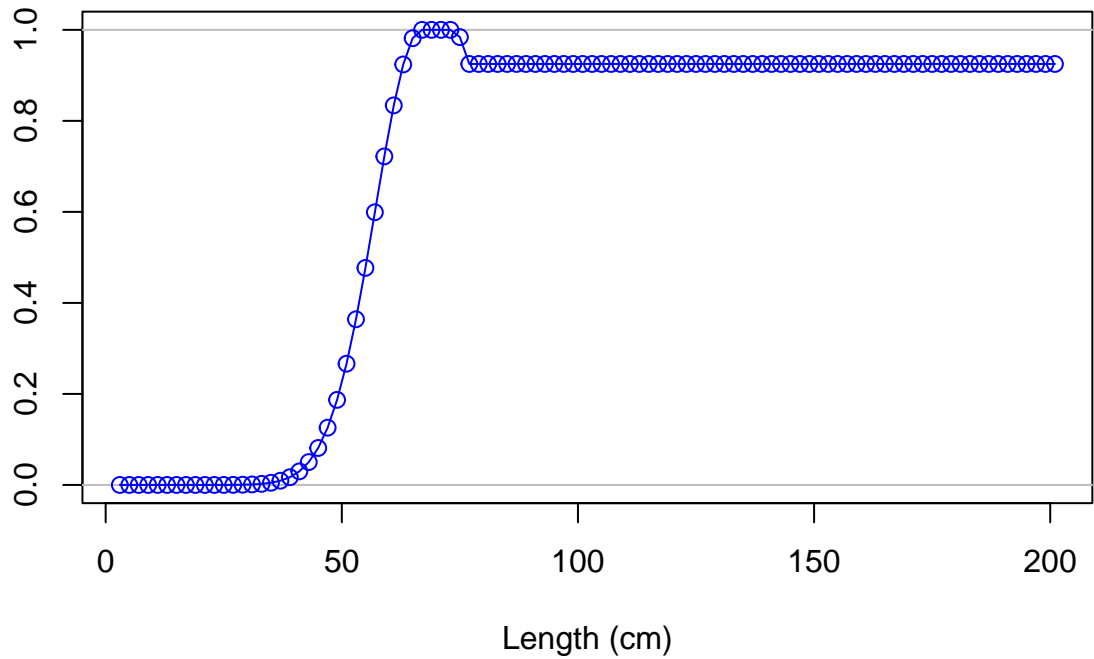
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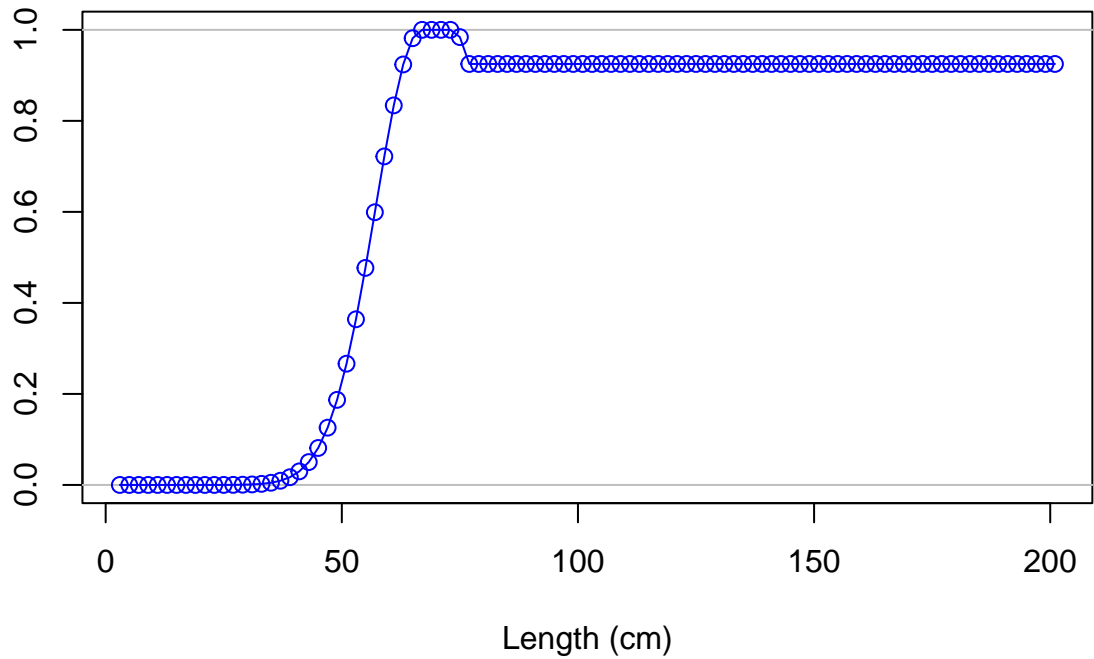
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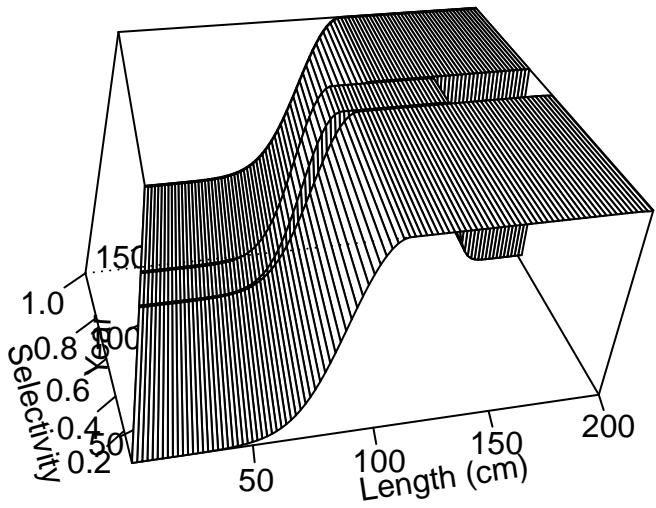


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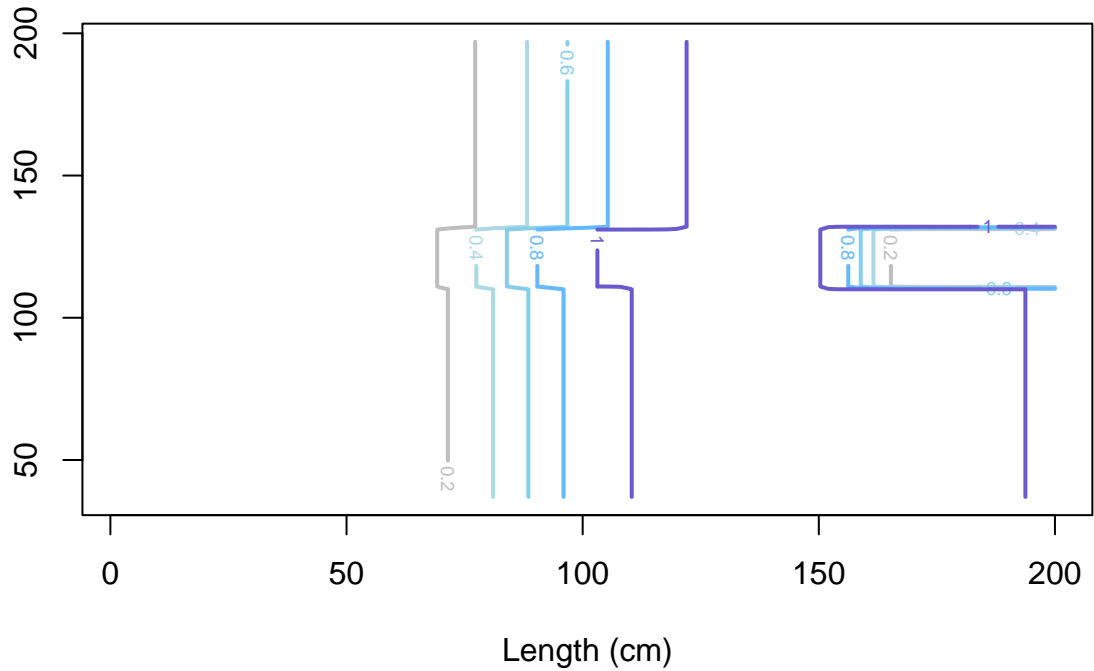
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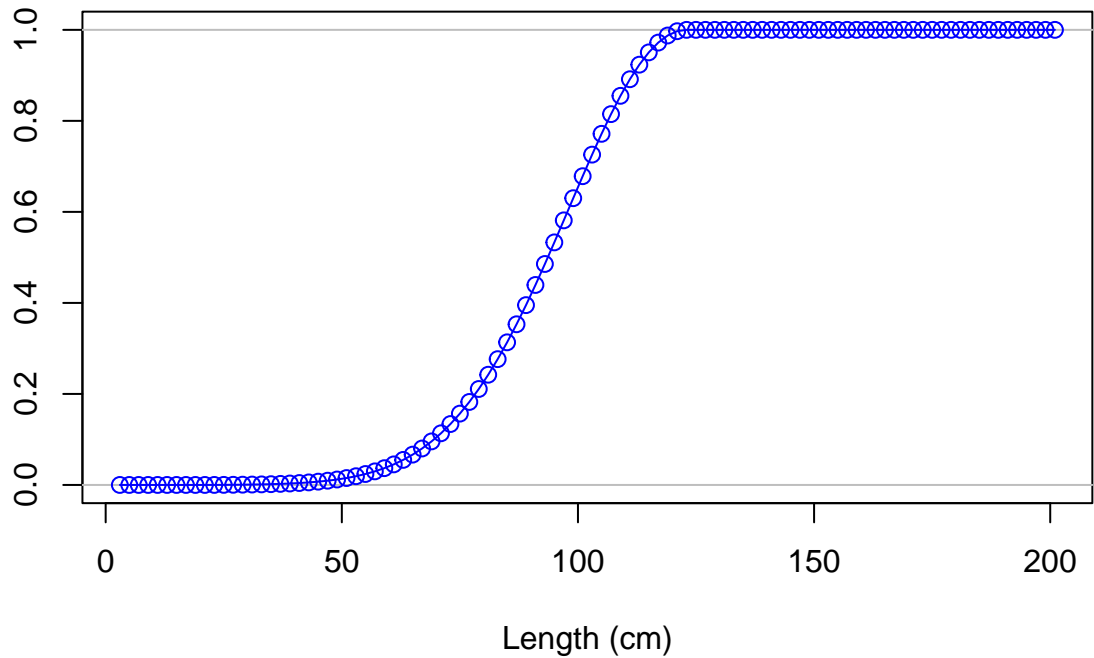


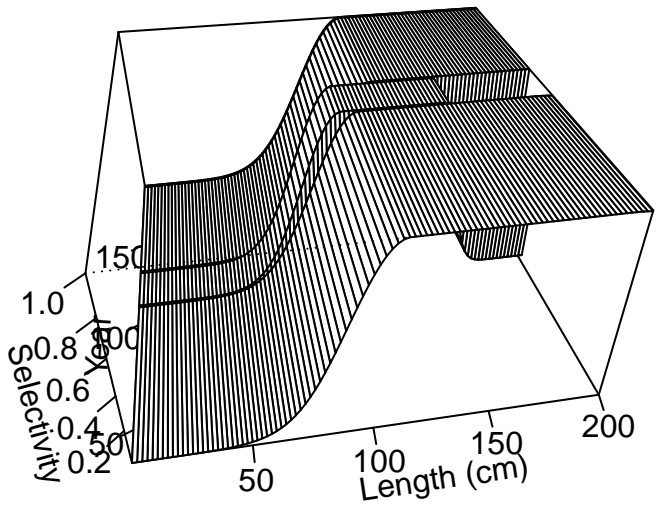


Year

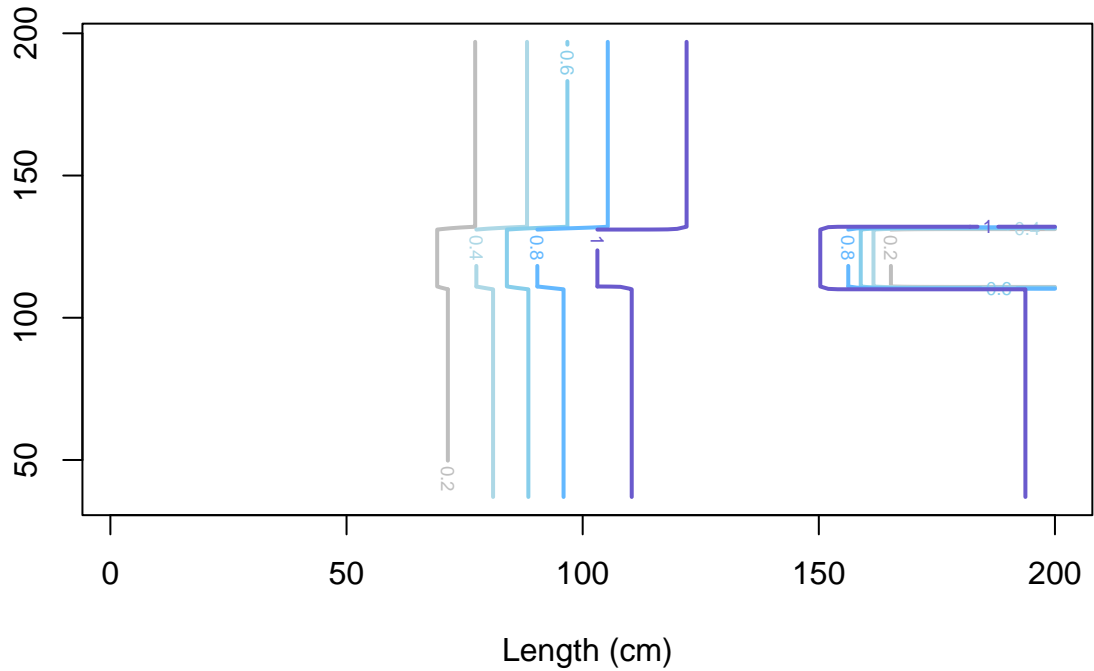


Selectivity

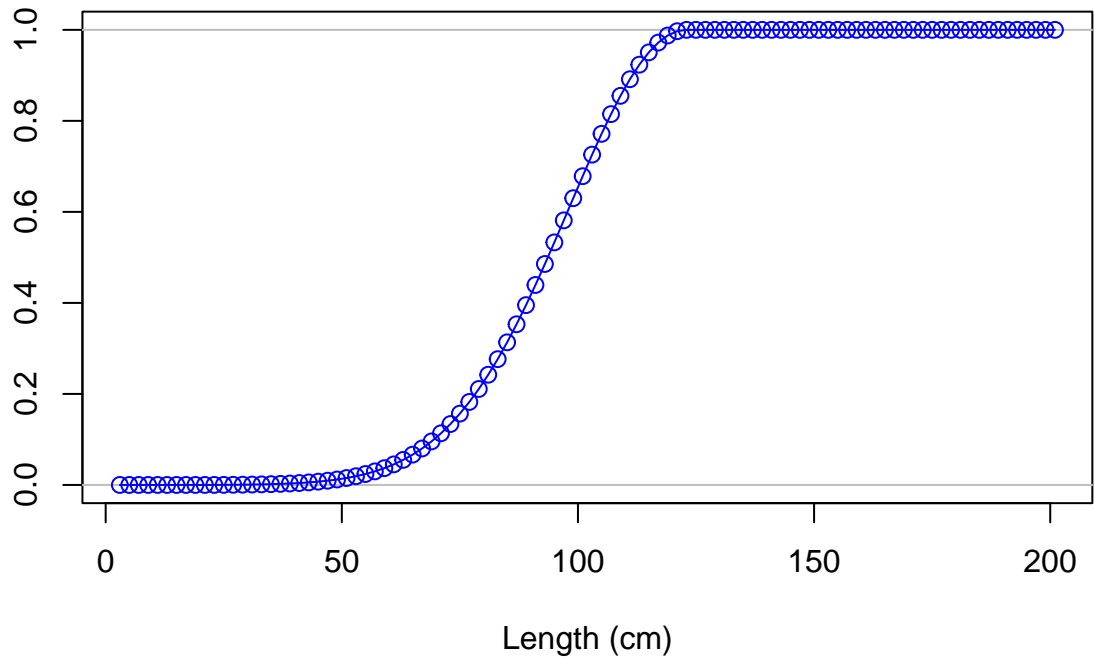




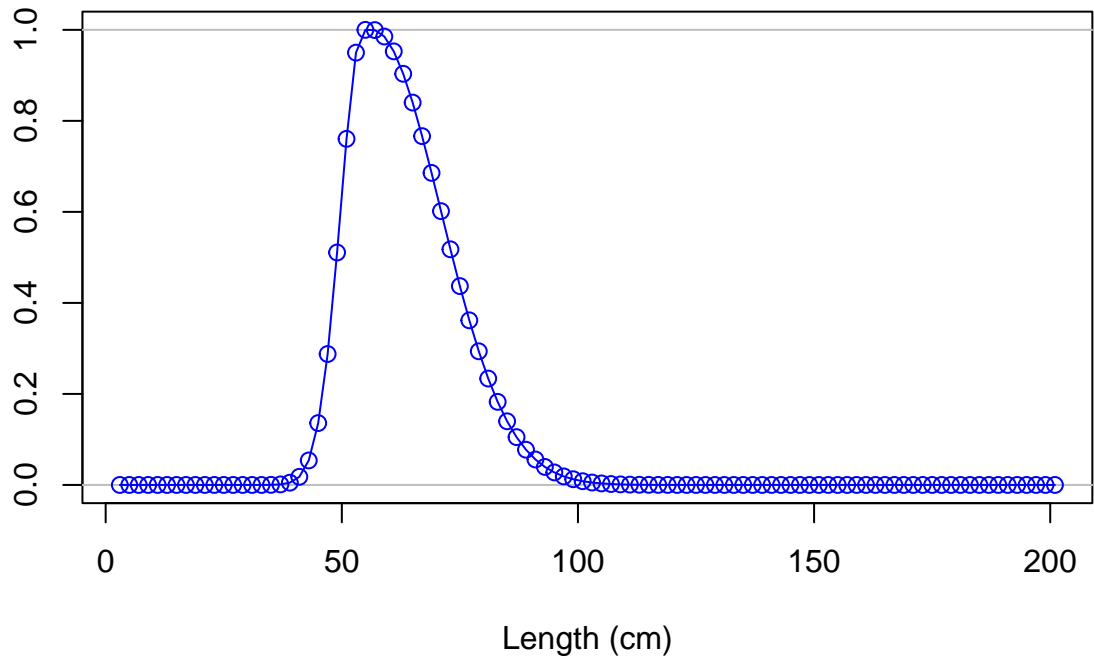
Year



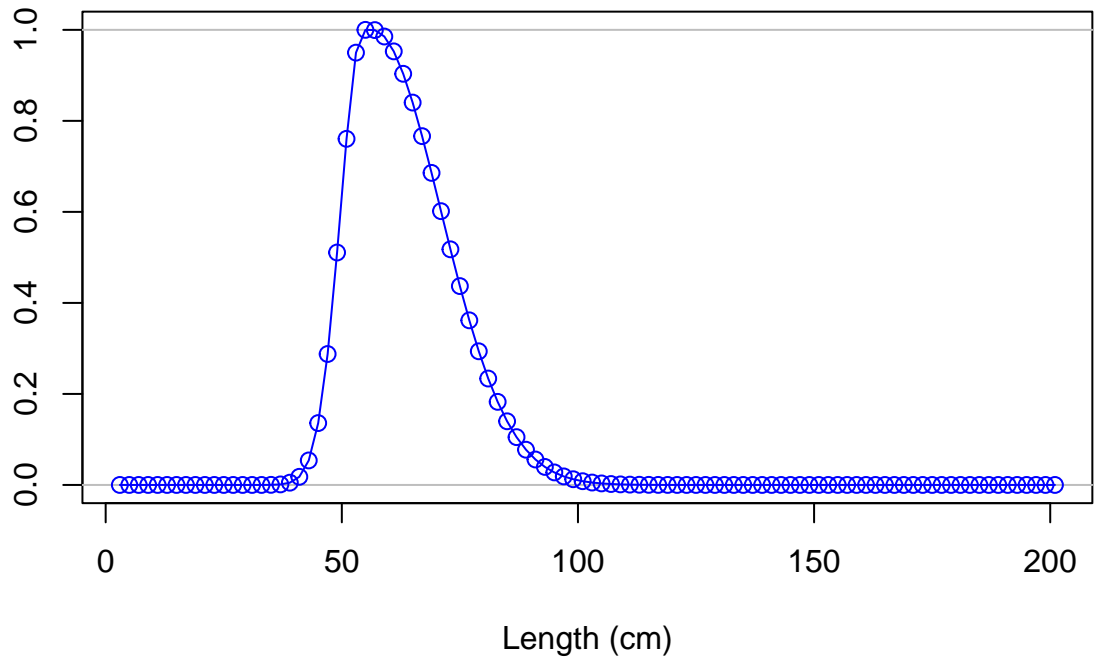
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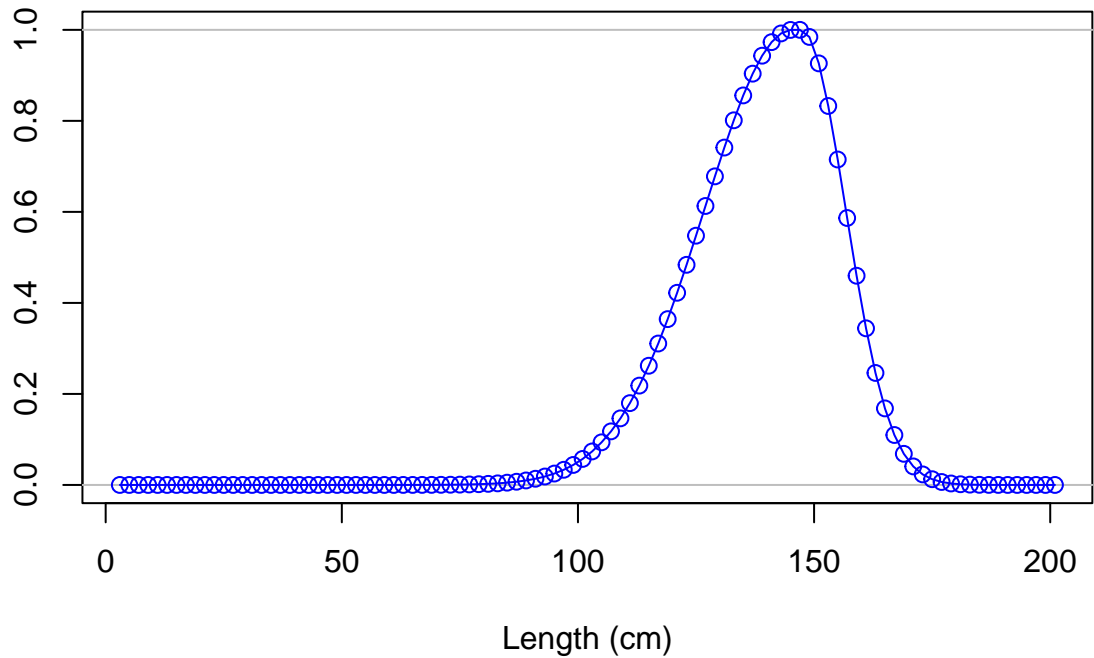
Selectivity



Selectivity

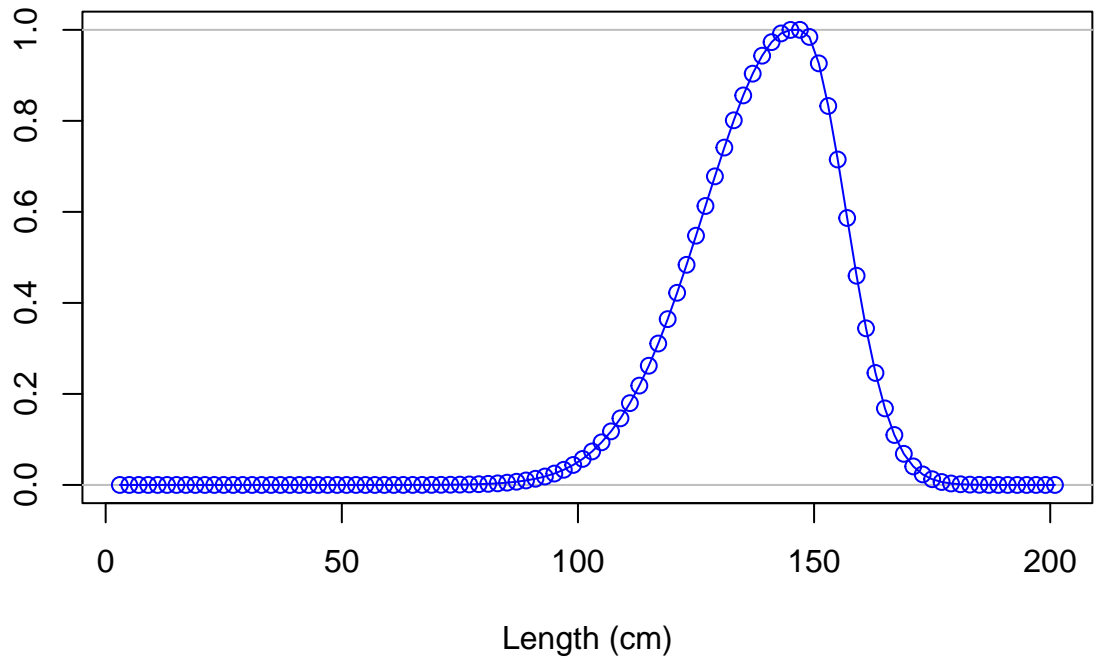


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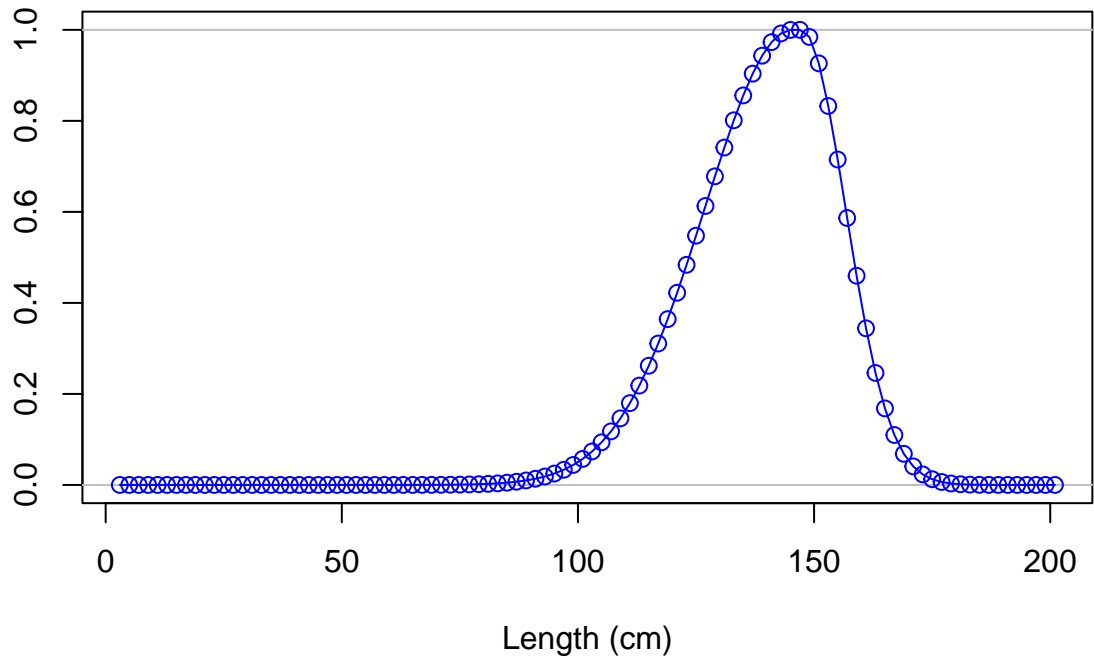




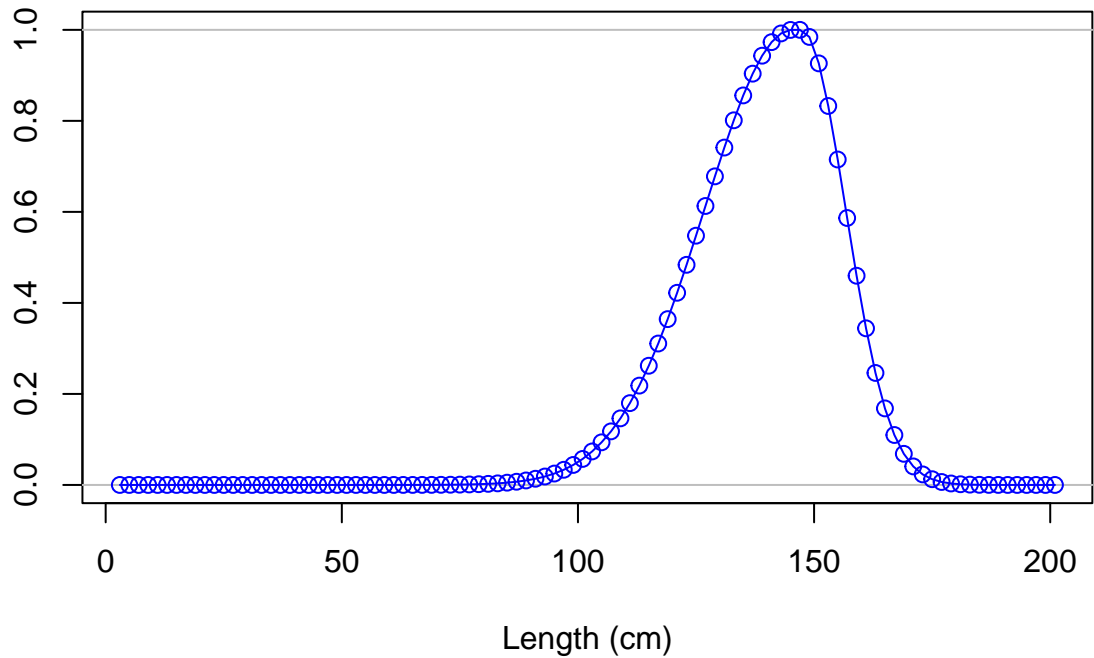
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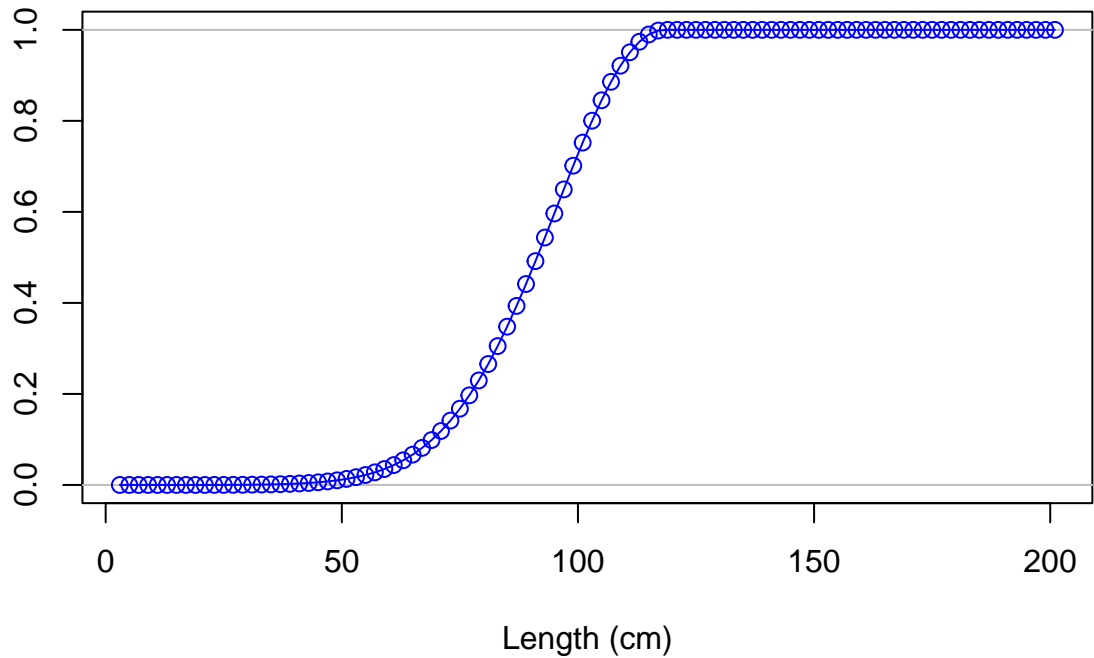
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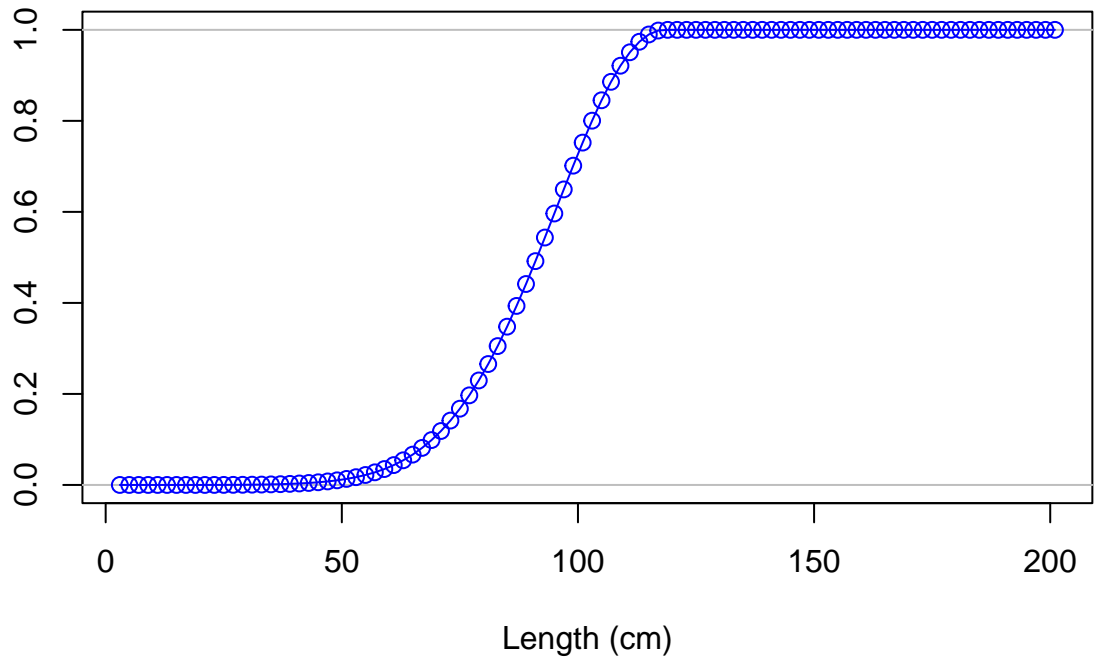
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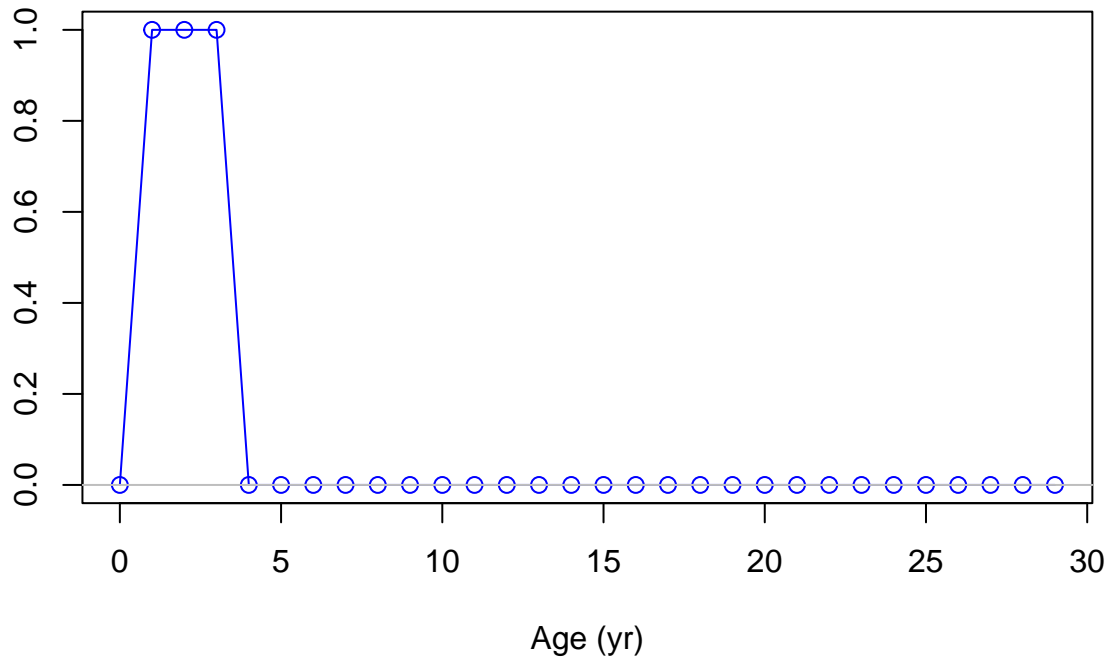
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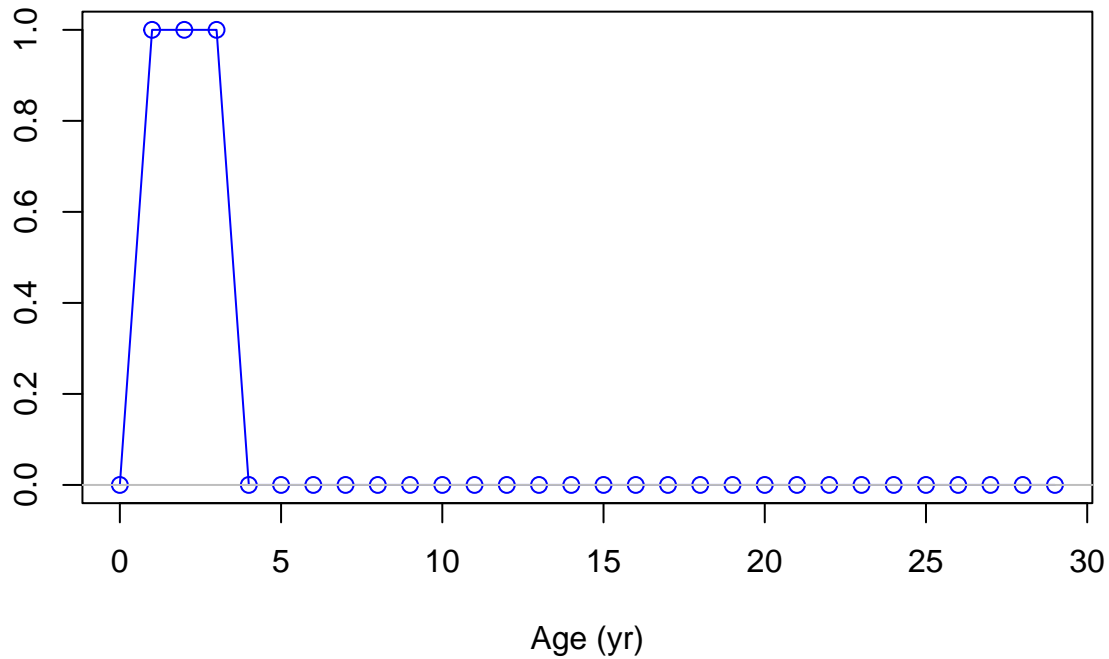
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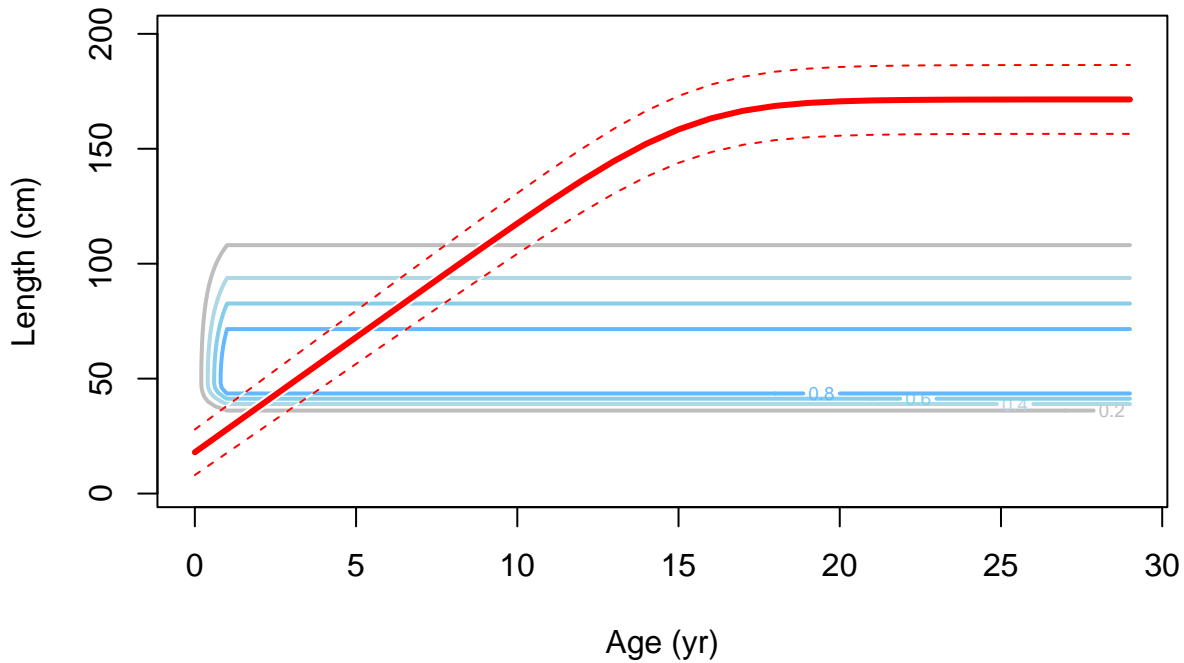


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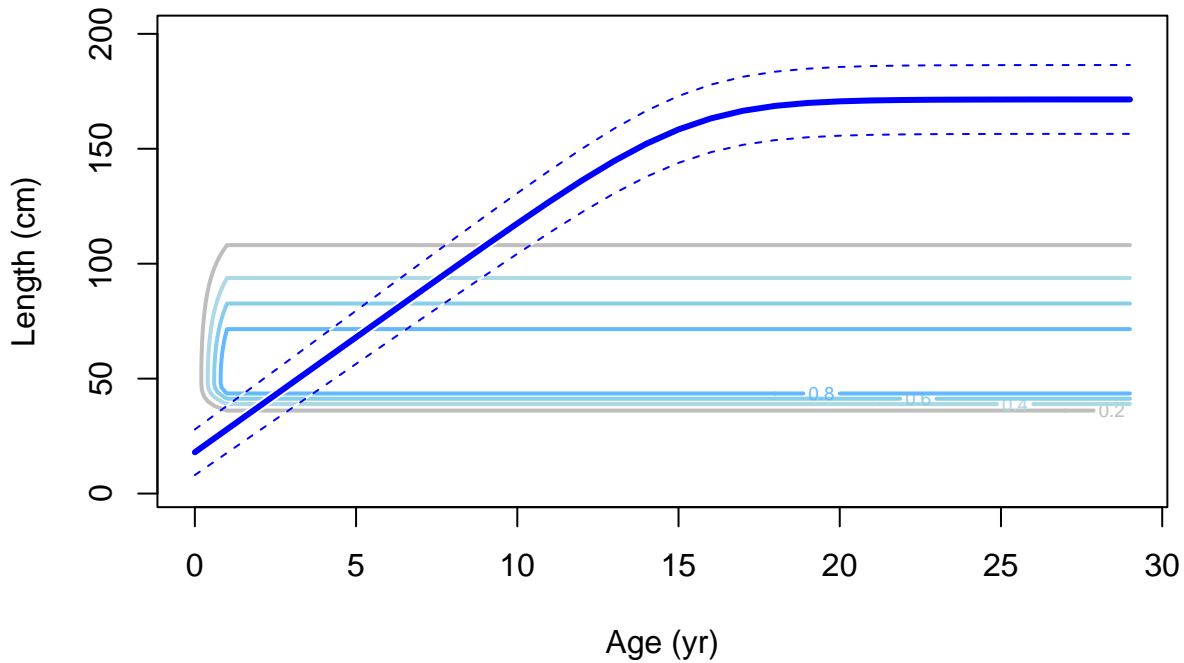


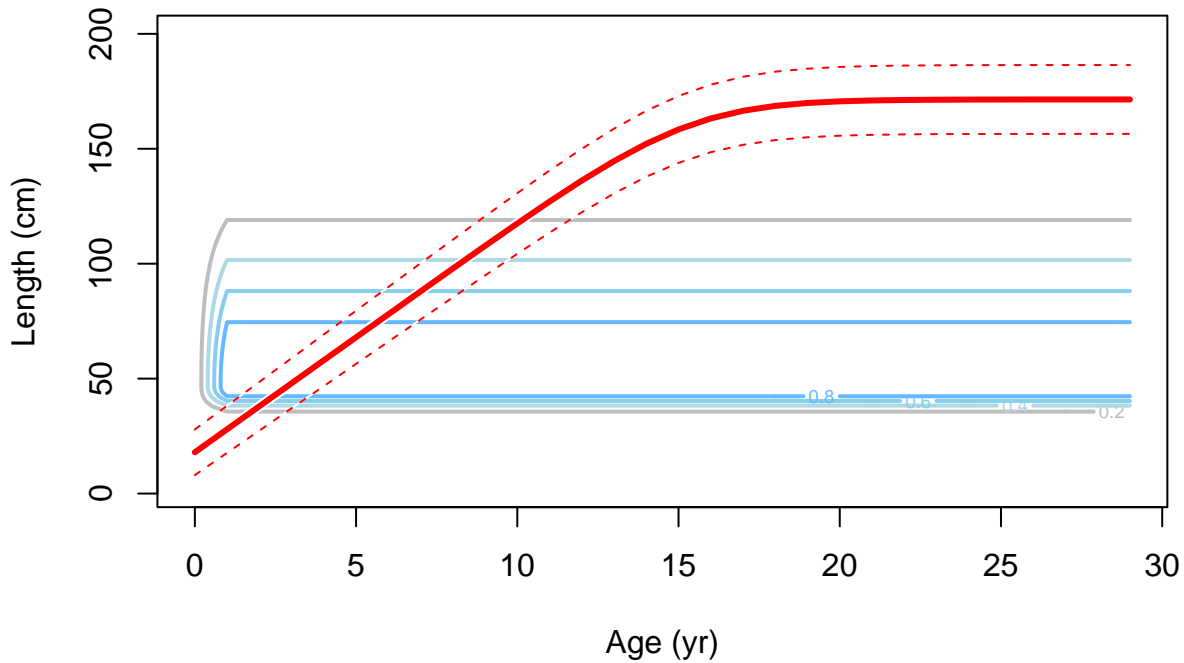
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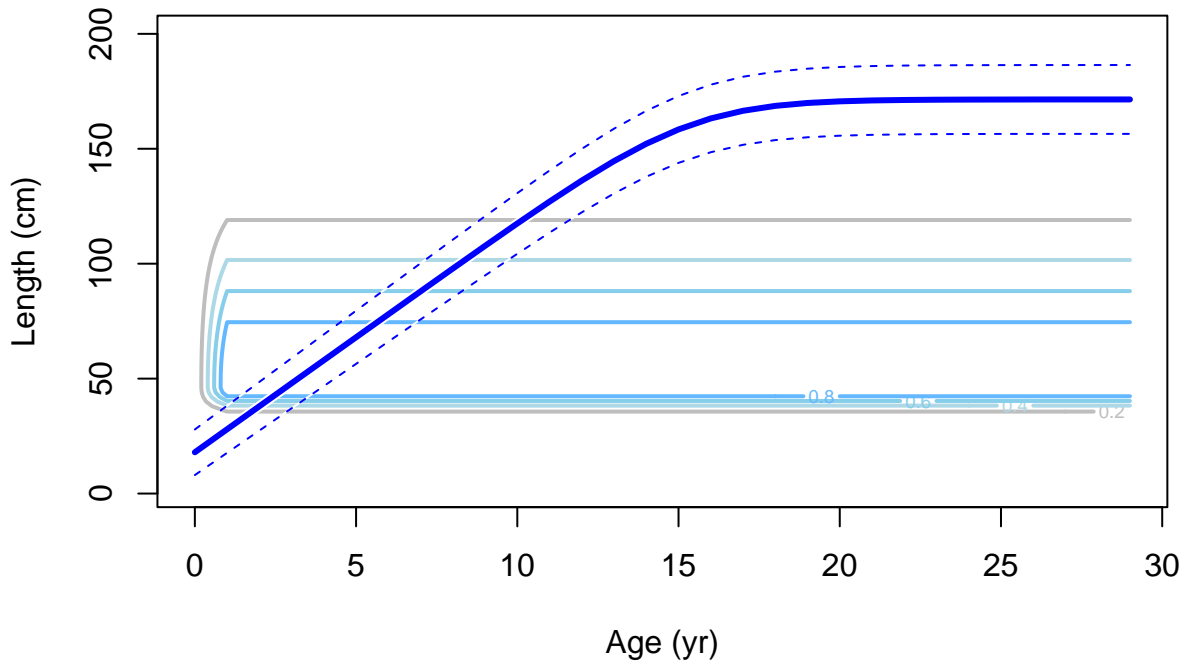


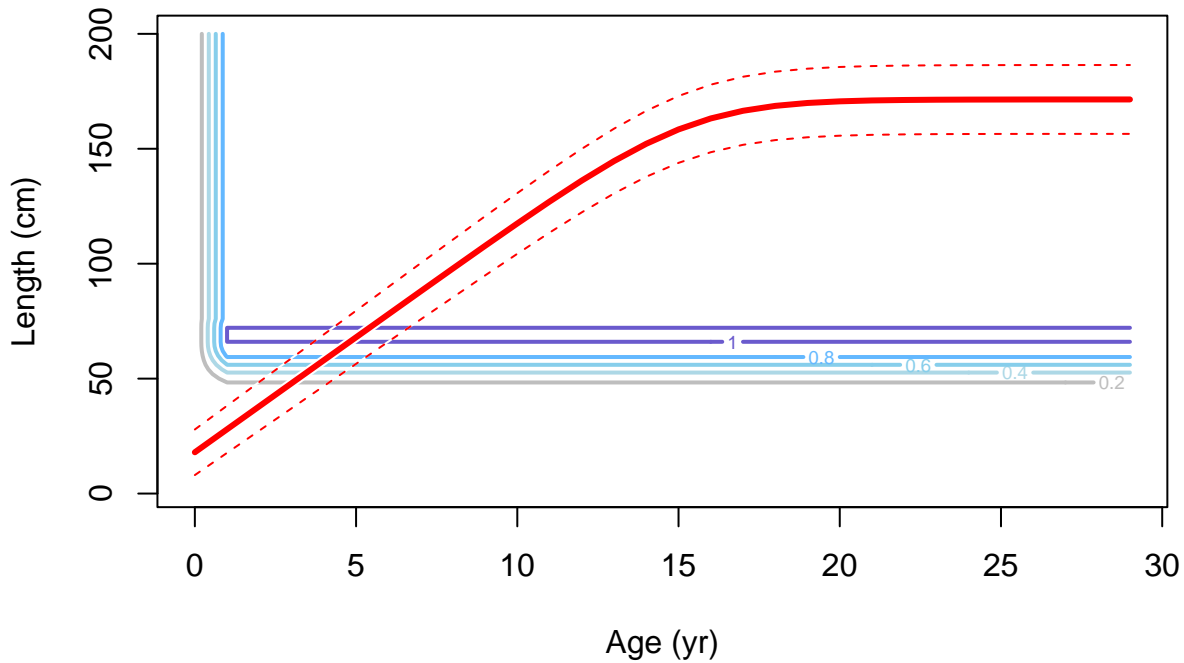


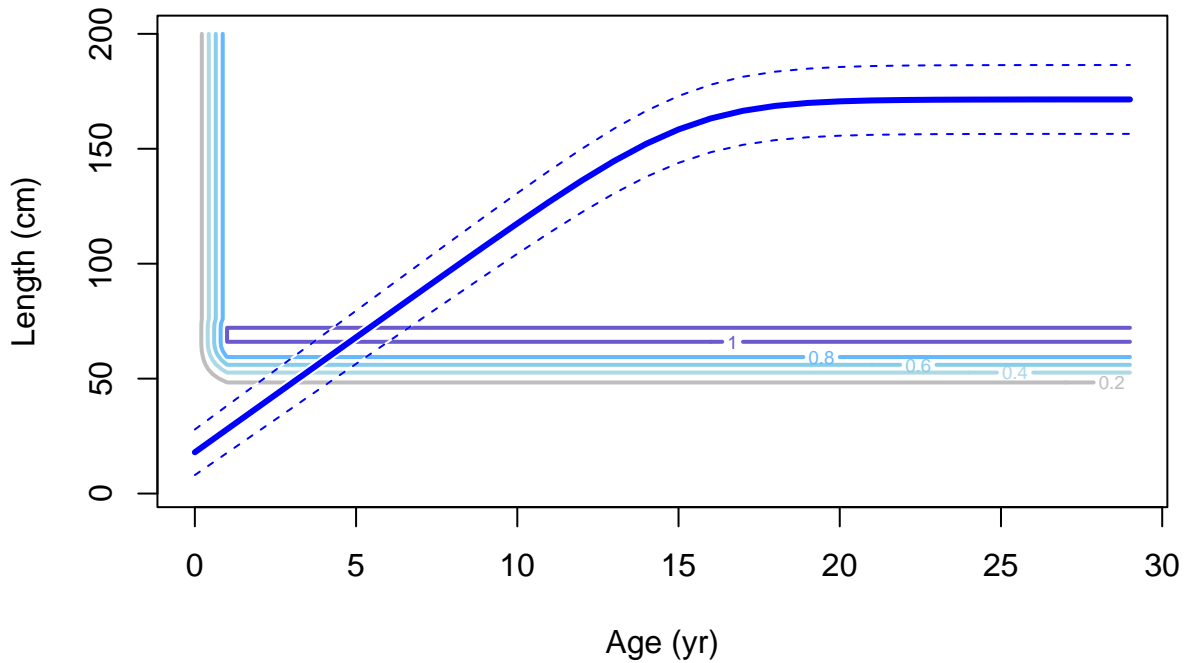


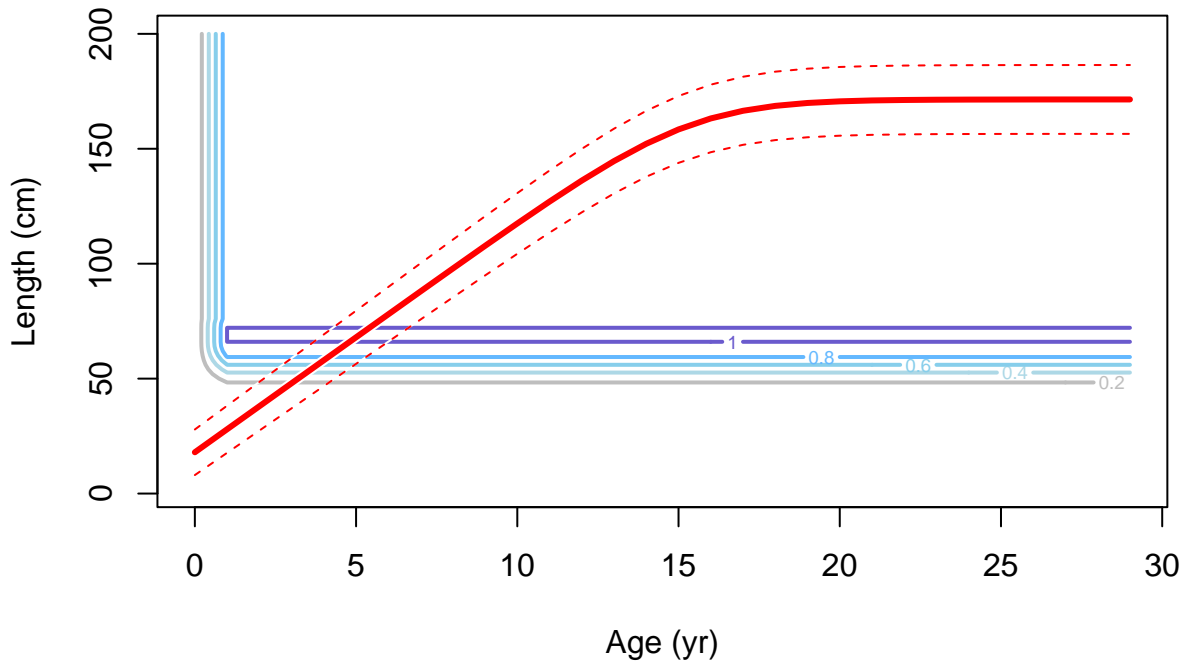


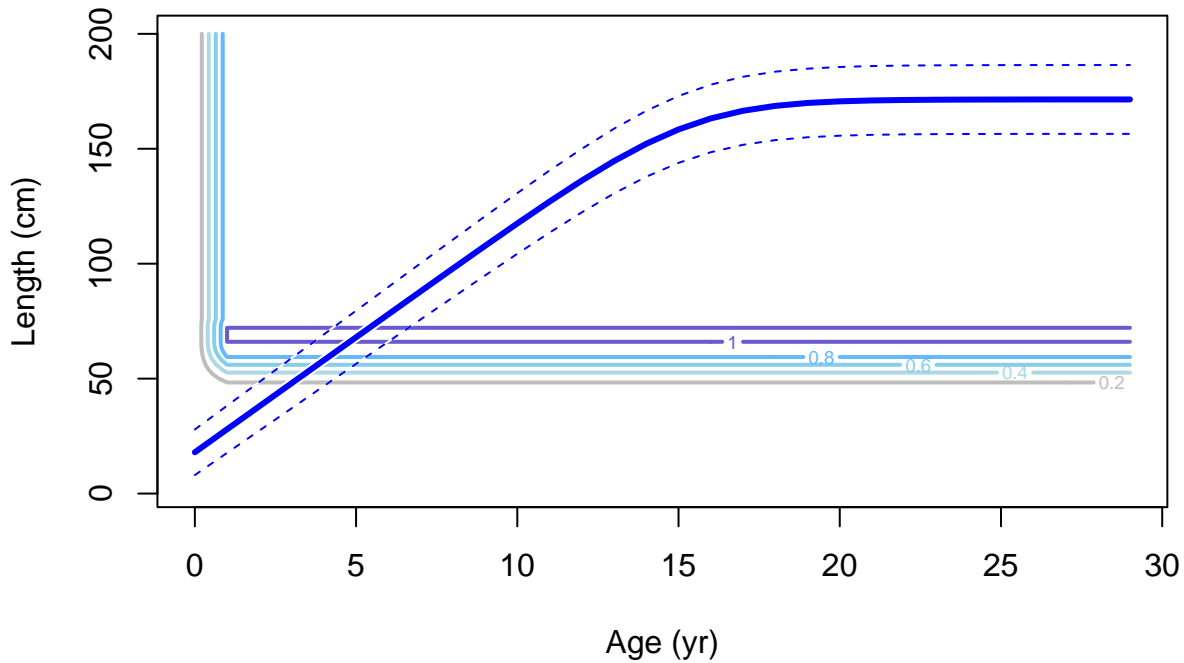


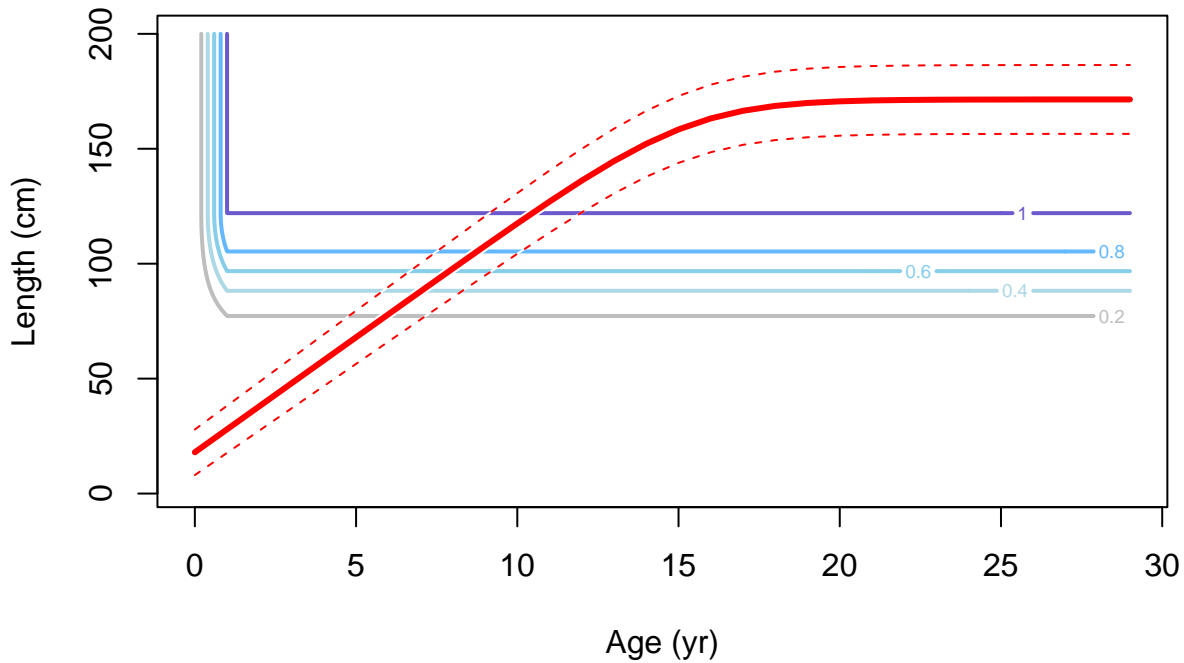




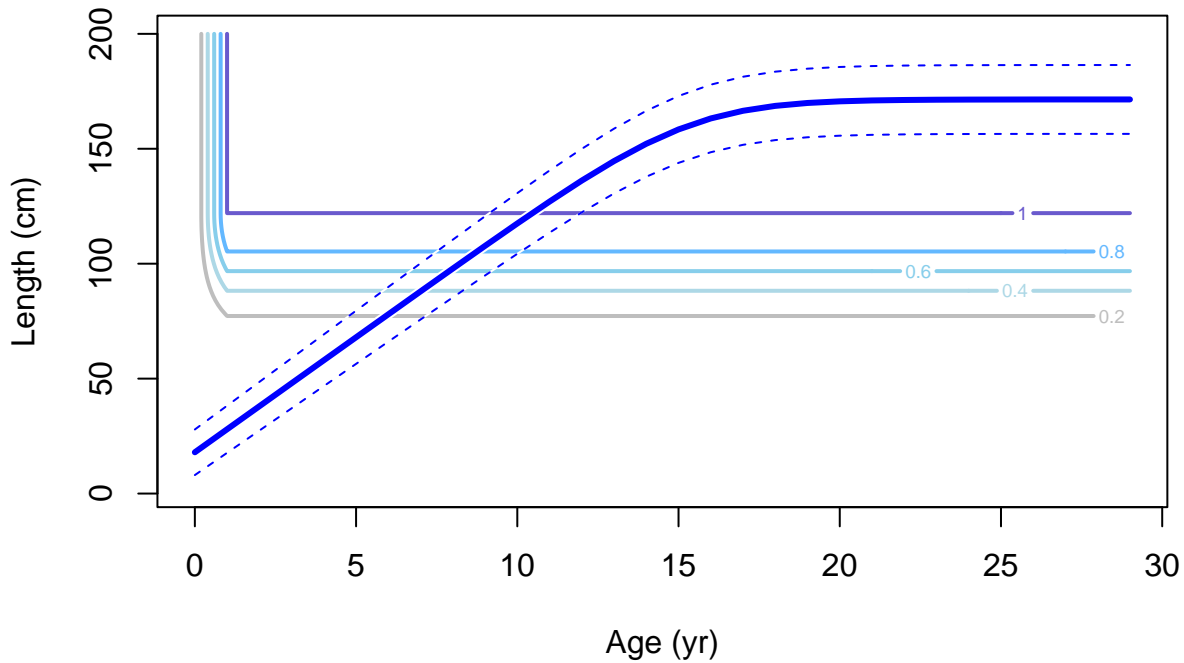


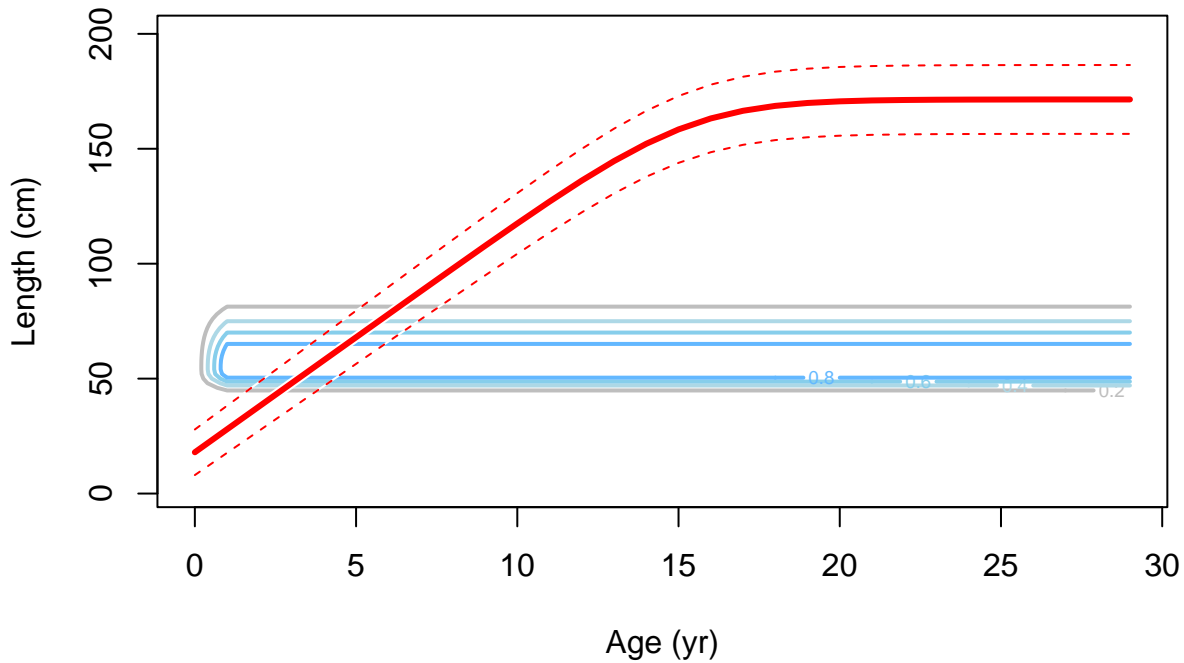


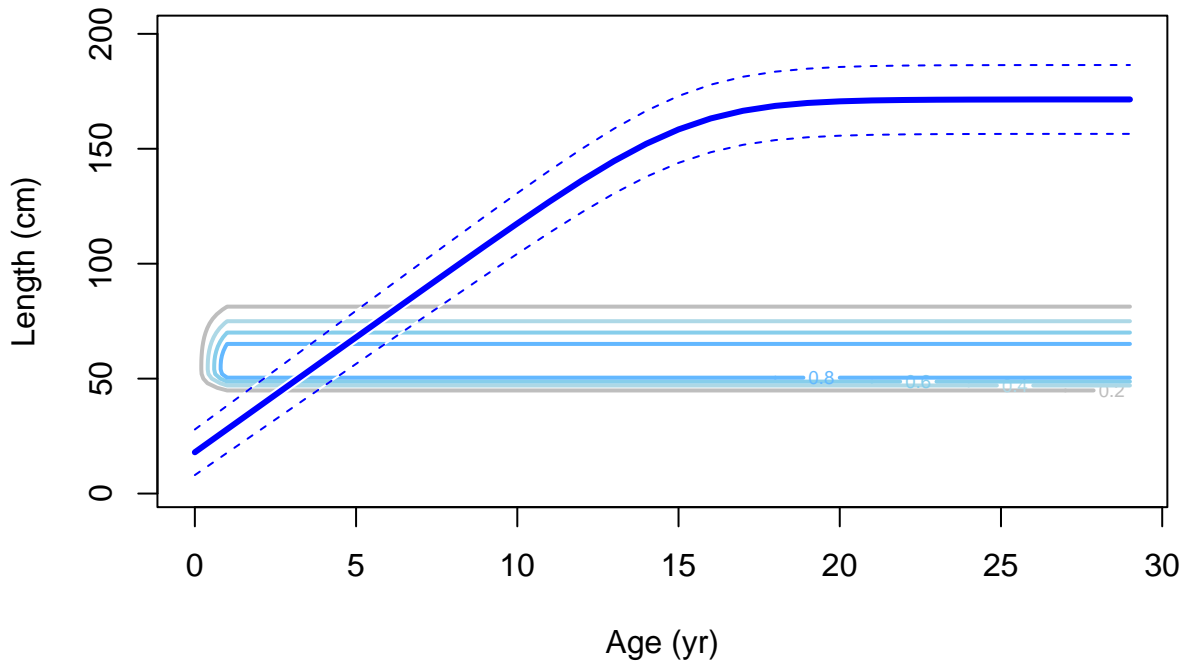


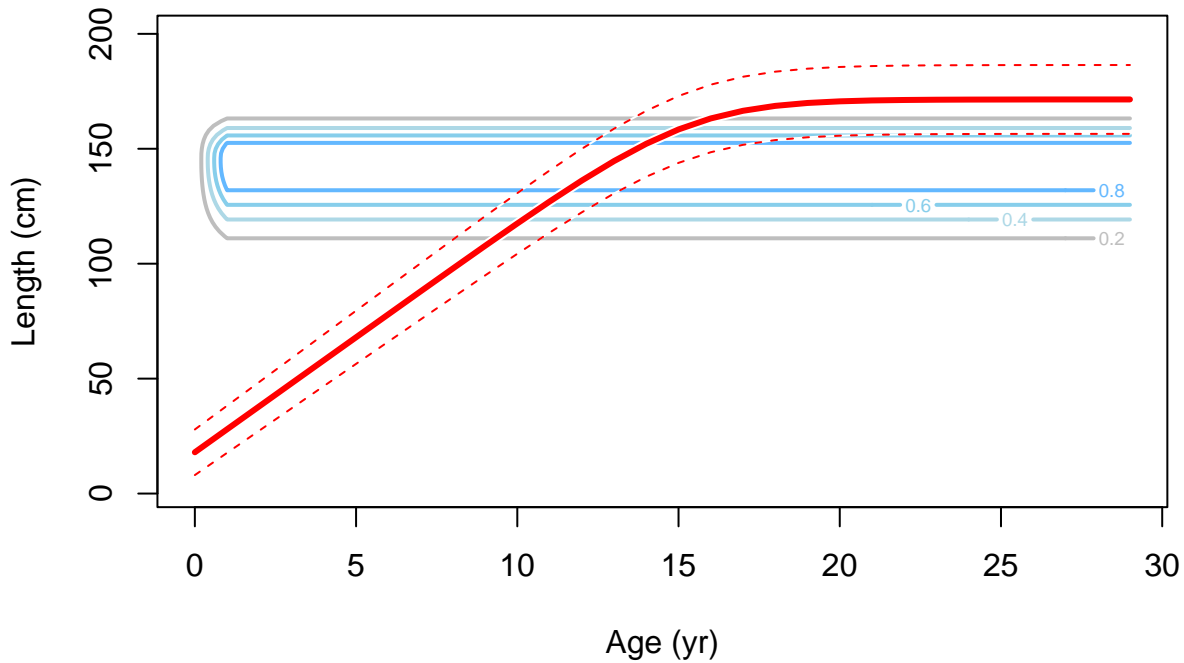


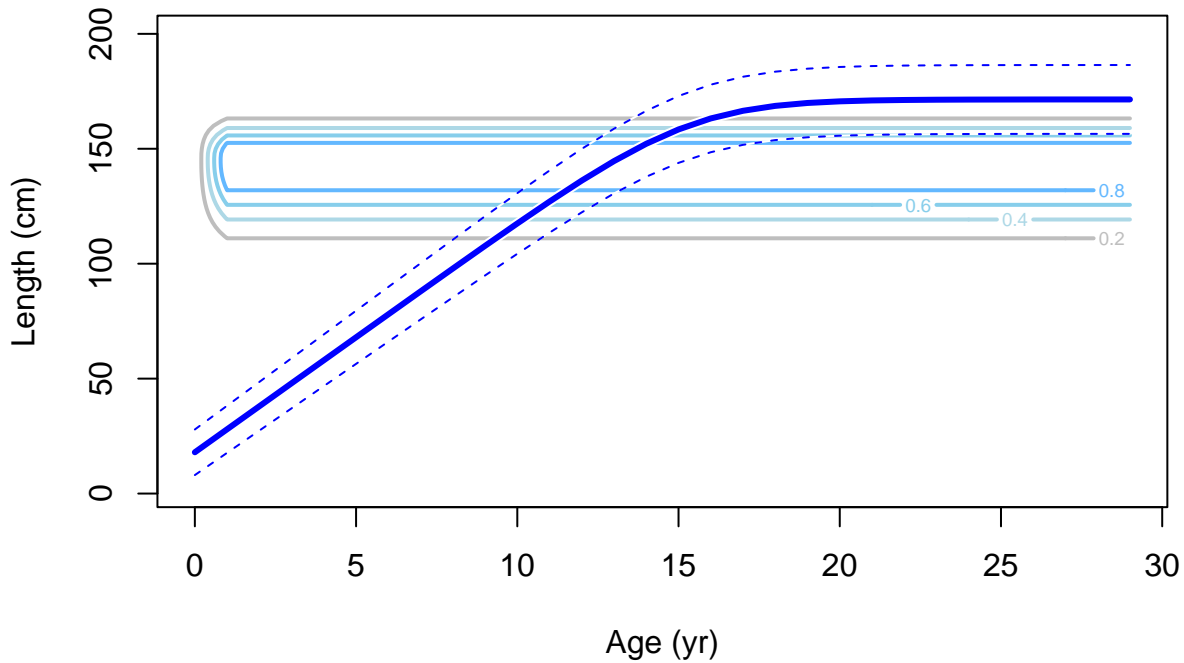


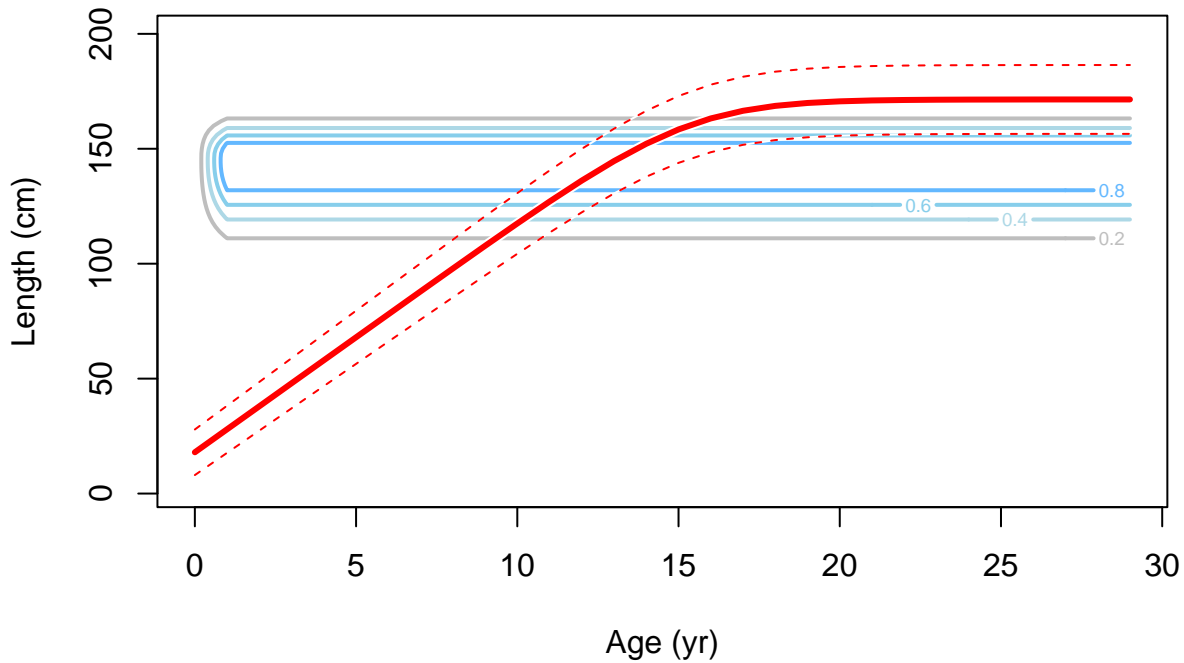


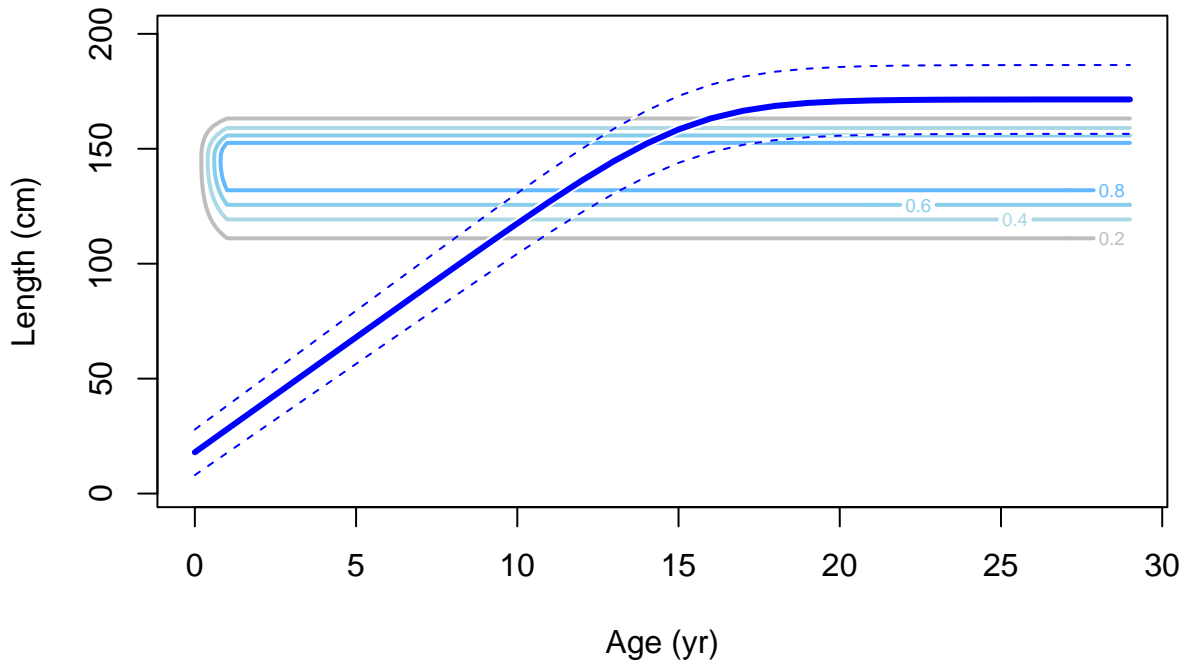


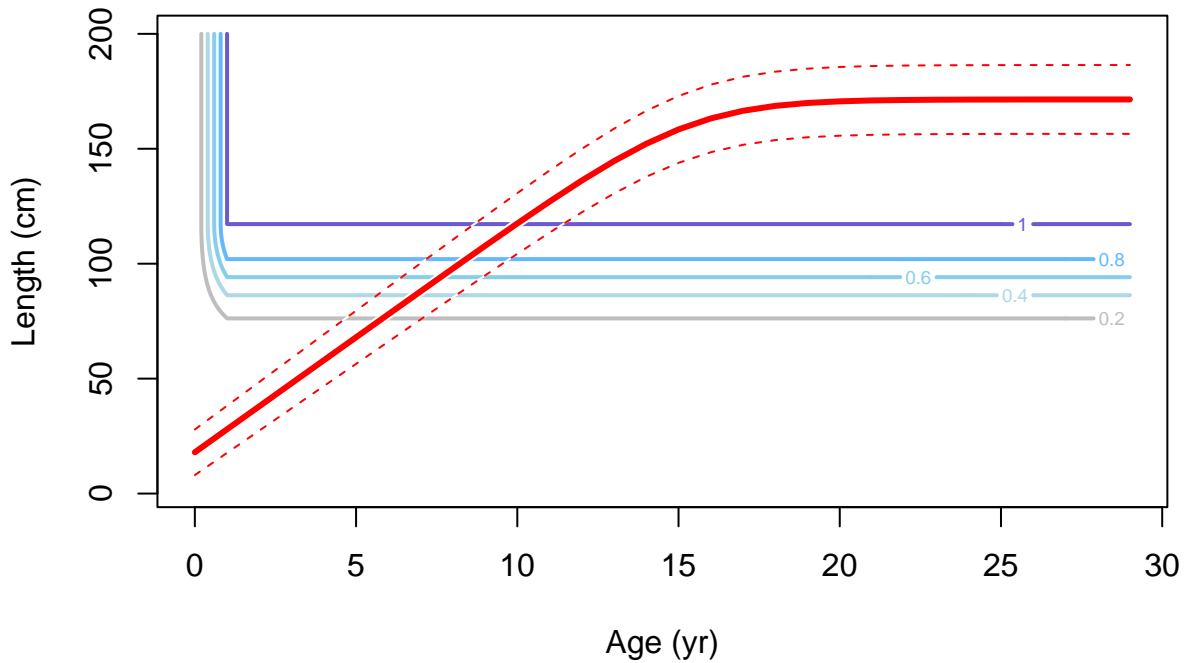




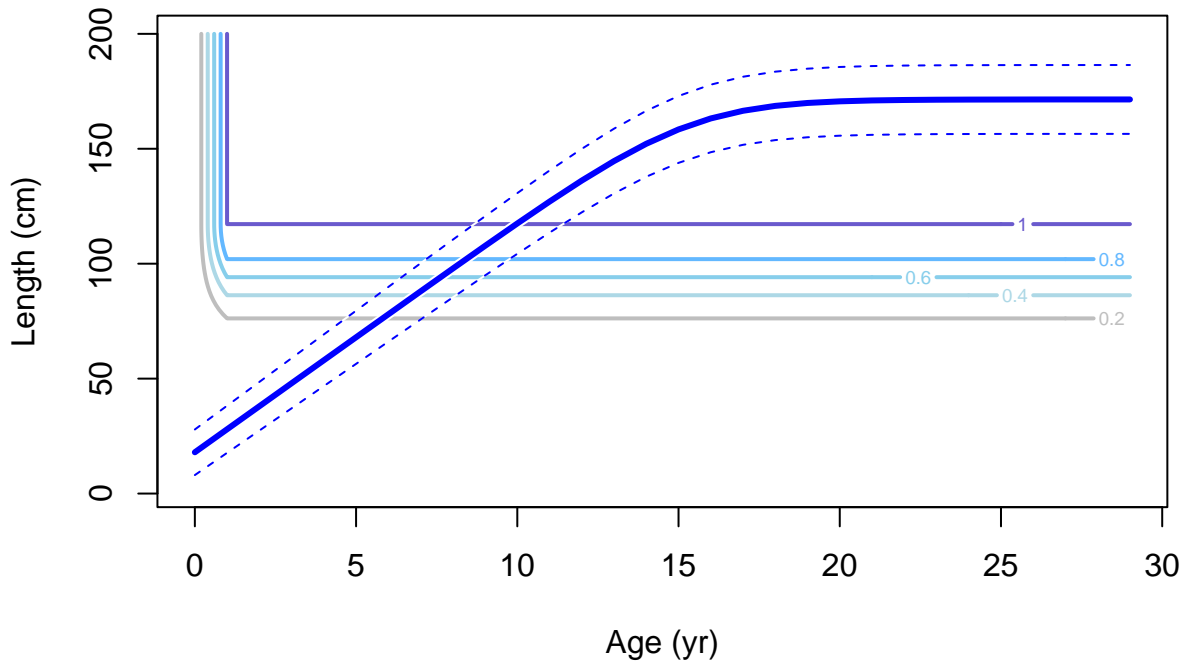




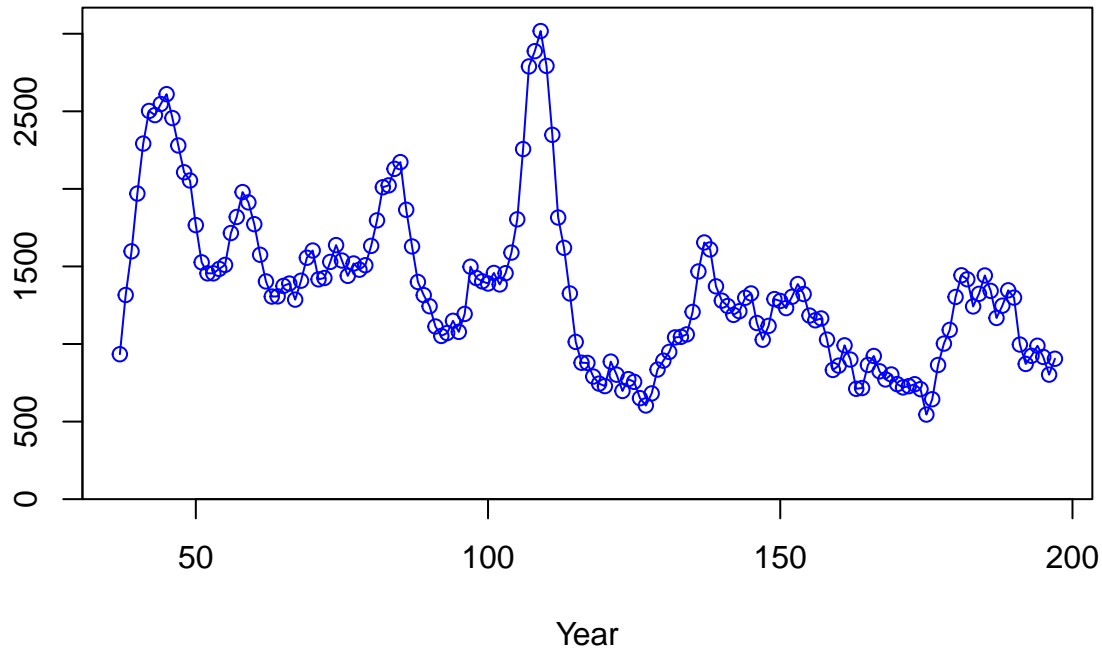




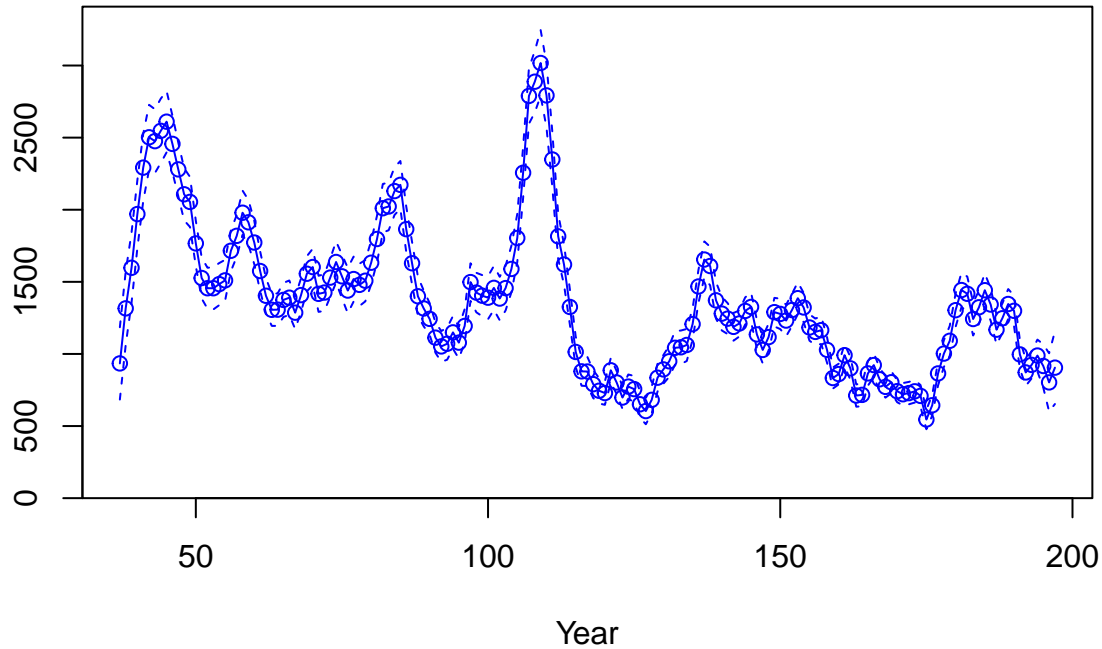




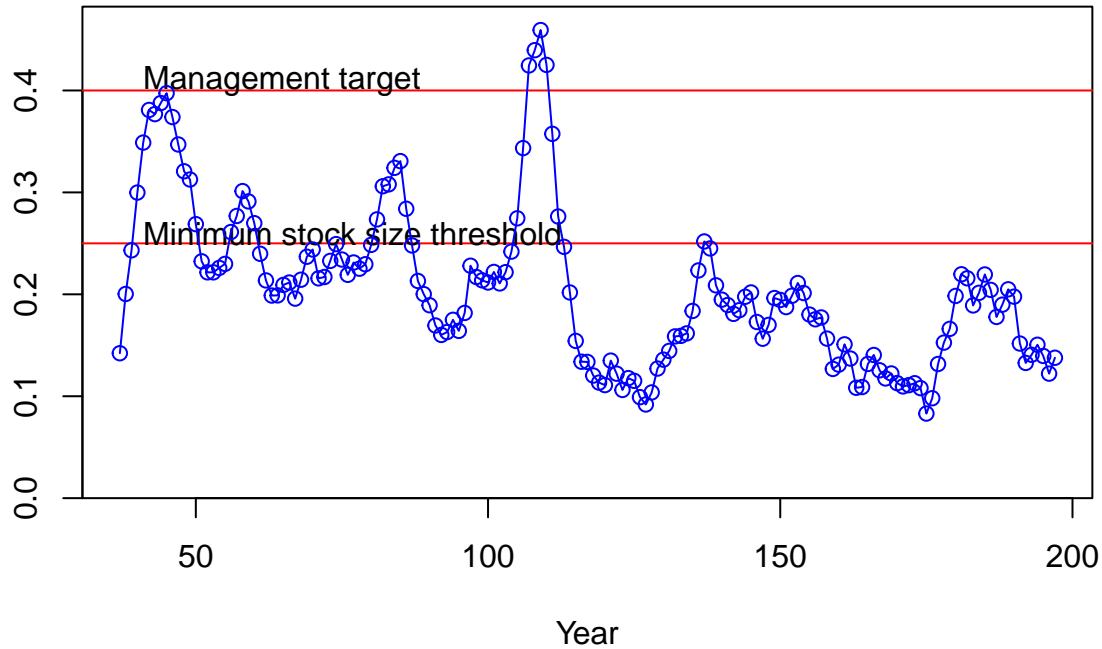
Spawning output



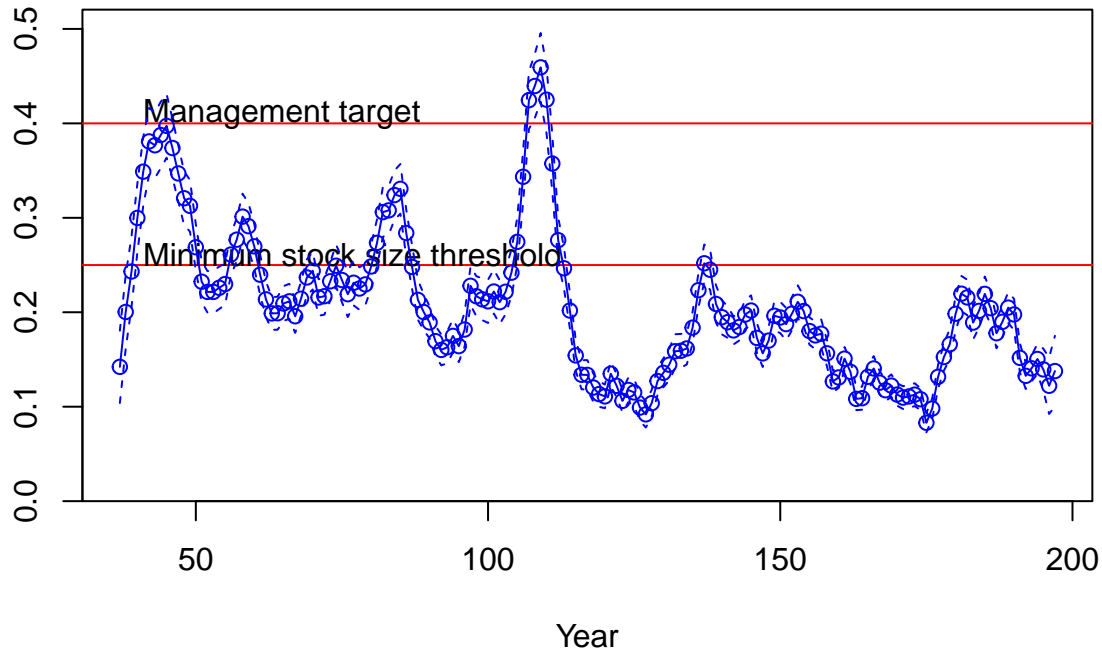
Spawning output

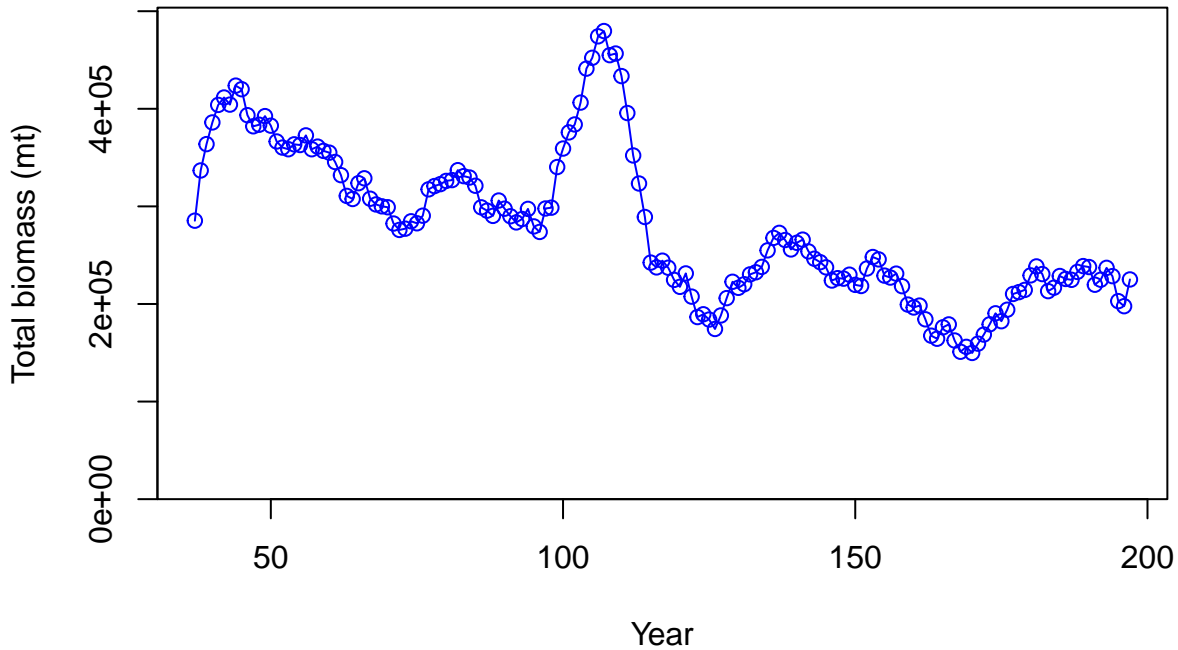


Relative spawning output: B/B\_0

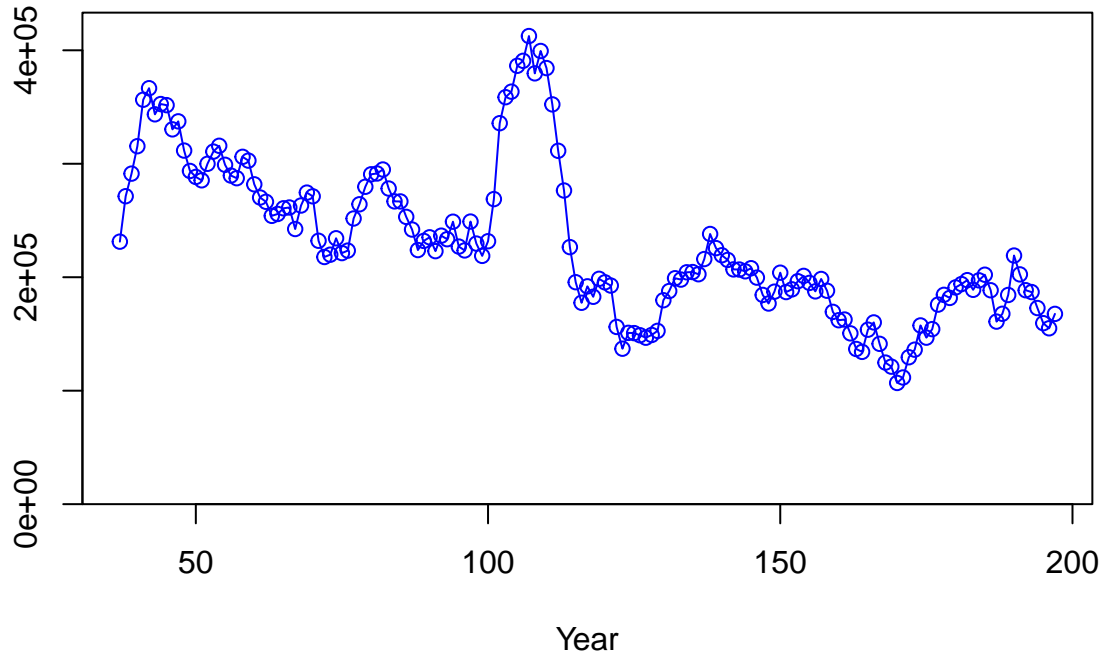


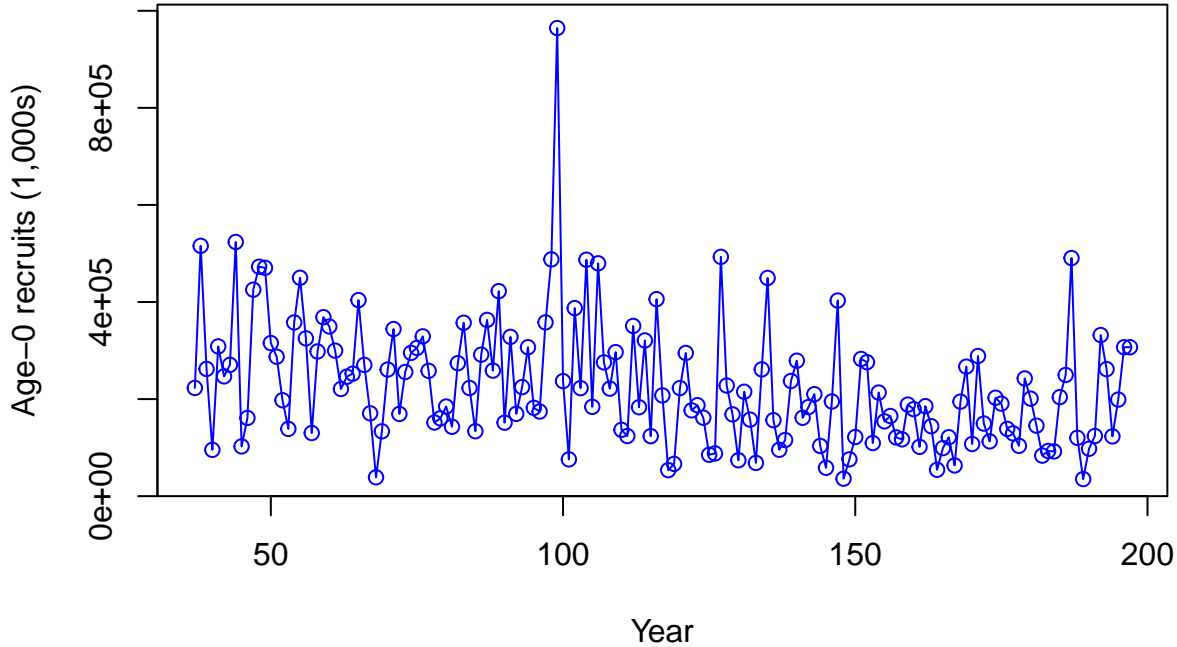
Relative spawning output: B/B\_0





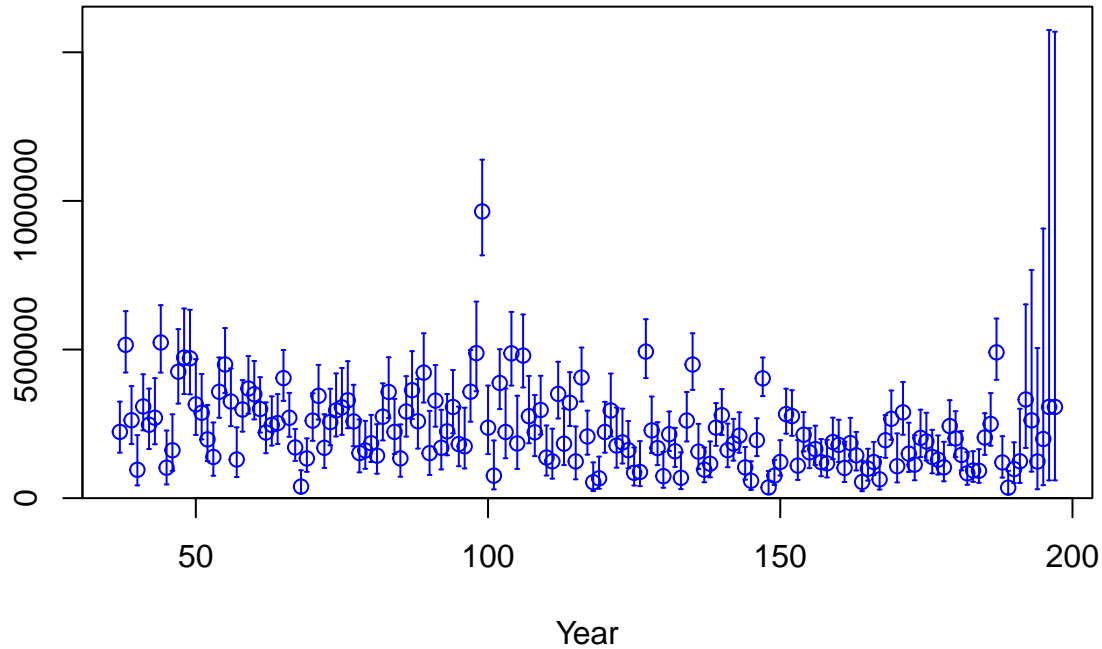
Summary biomass (mt)



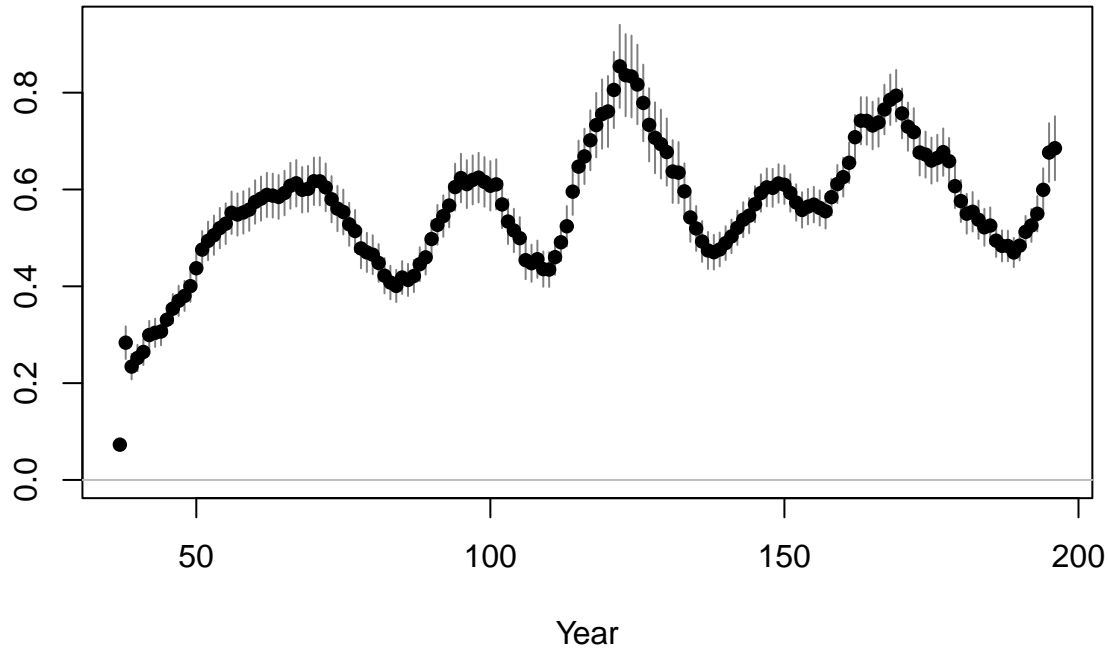


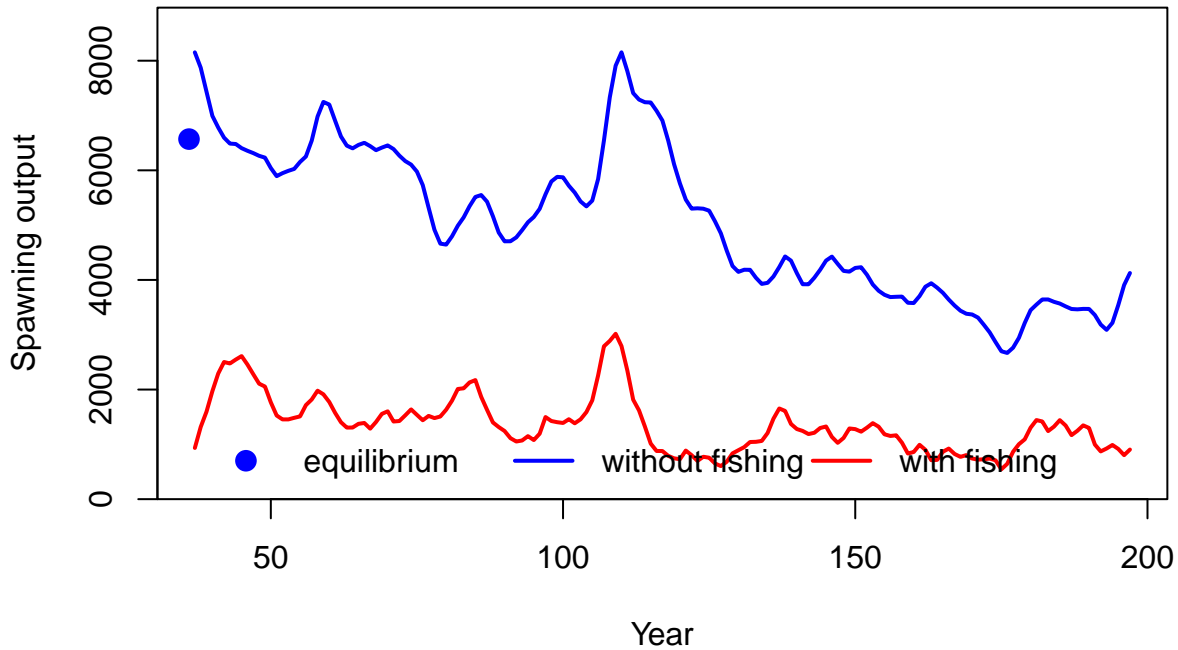


Age-0 recruits (1,000s)

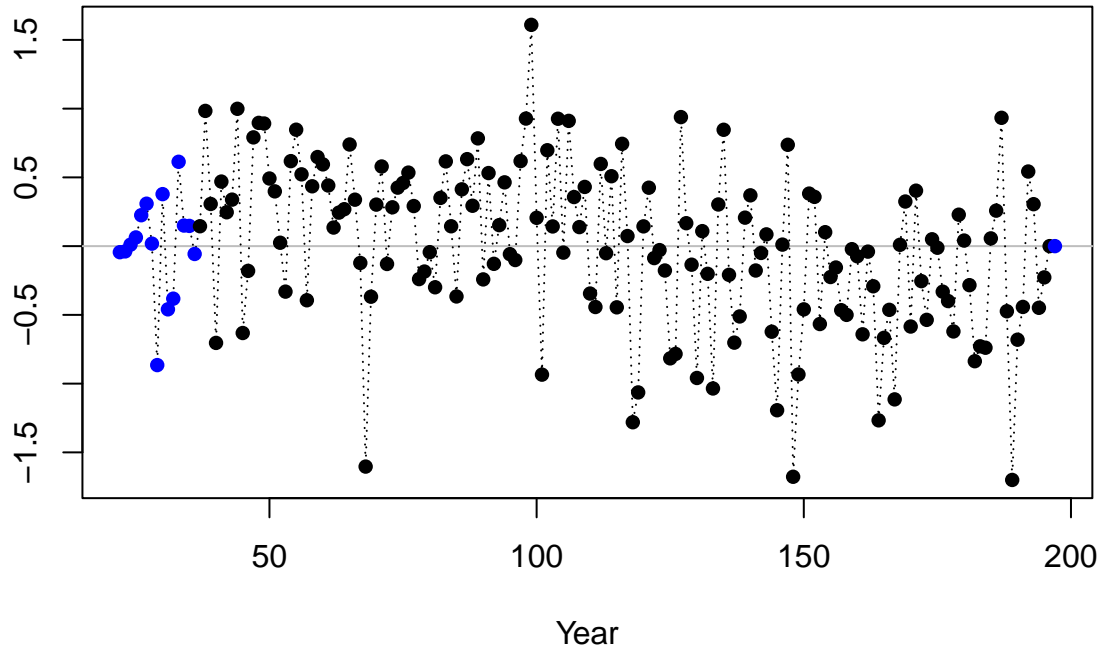


Summary Fishing Mortality

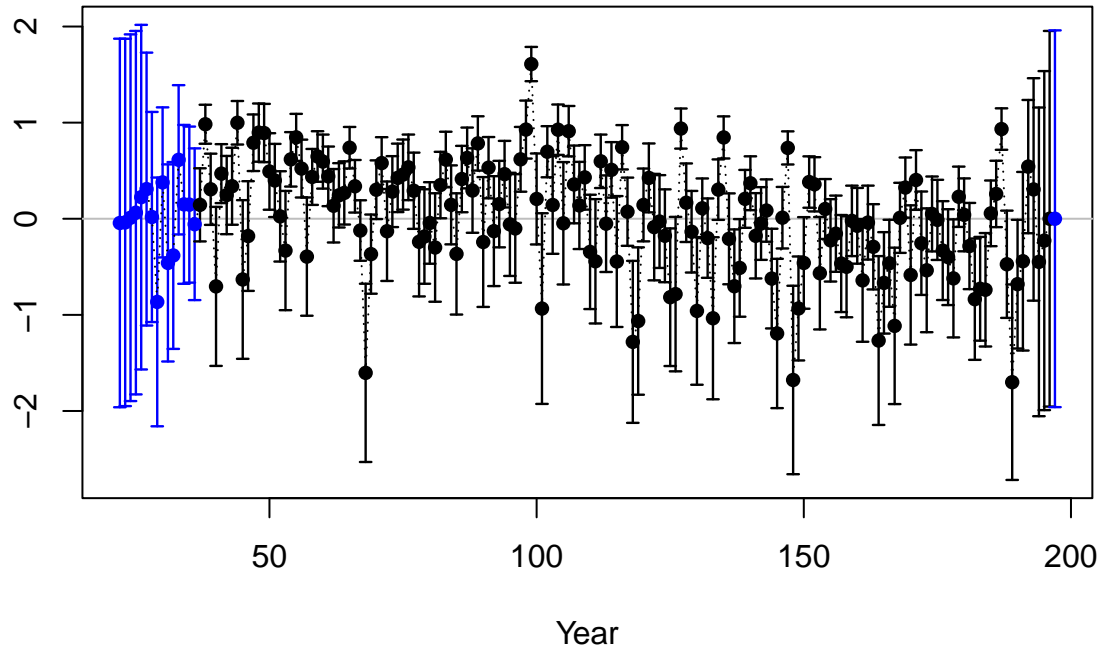




Log recruitment deviation

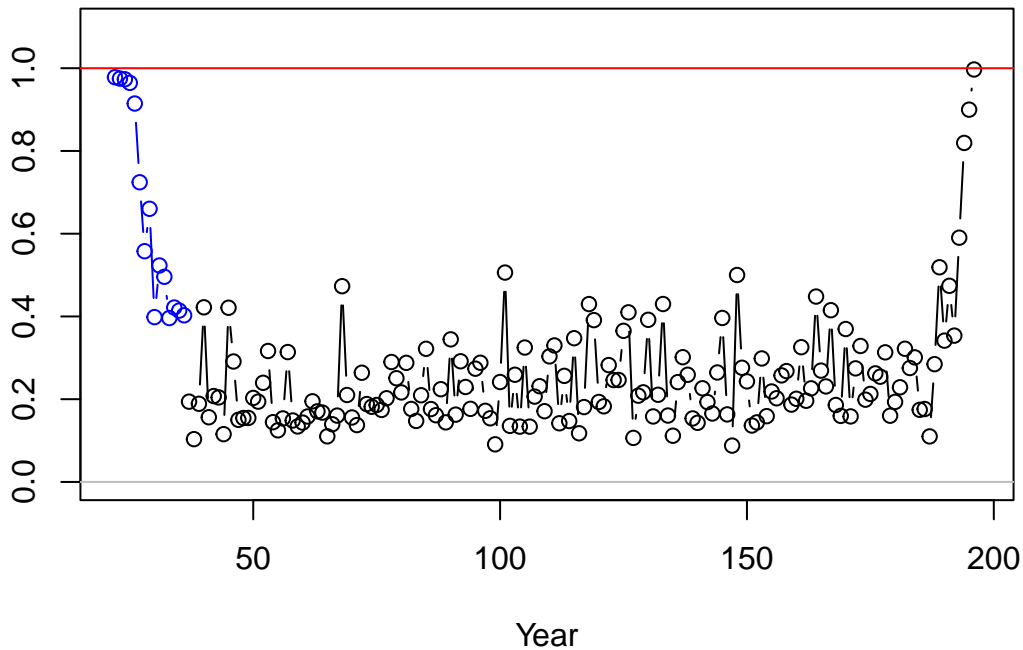


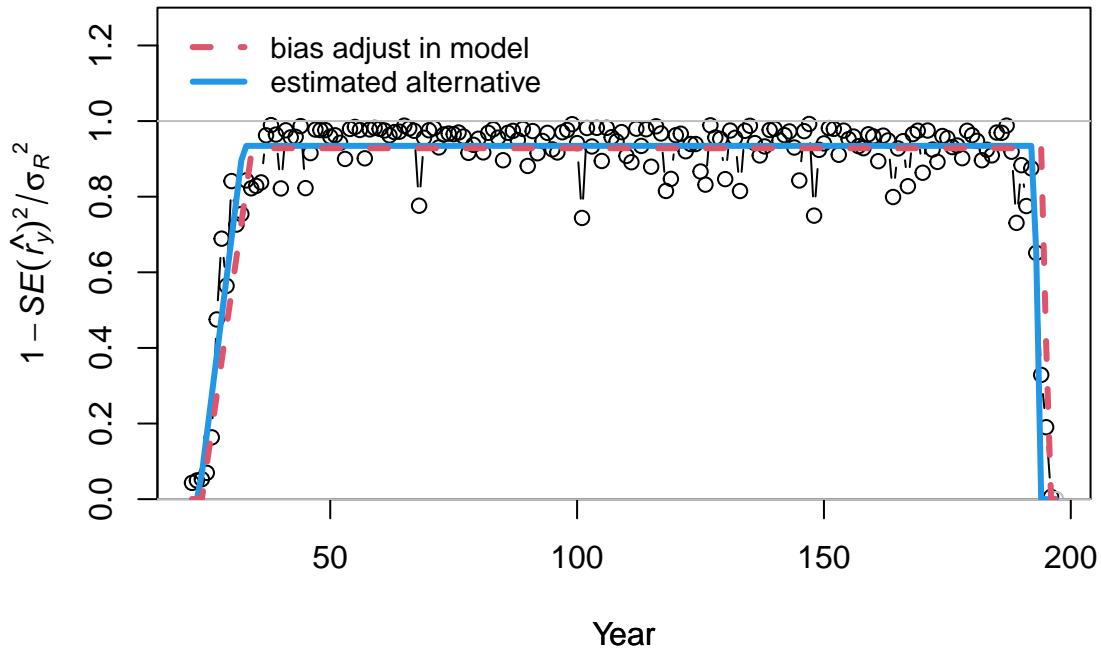
Log recruitment deviation

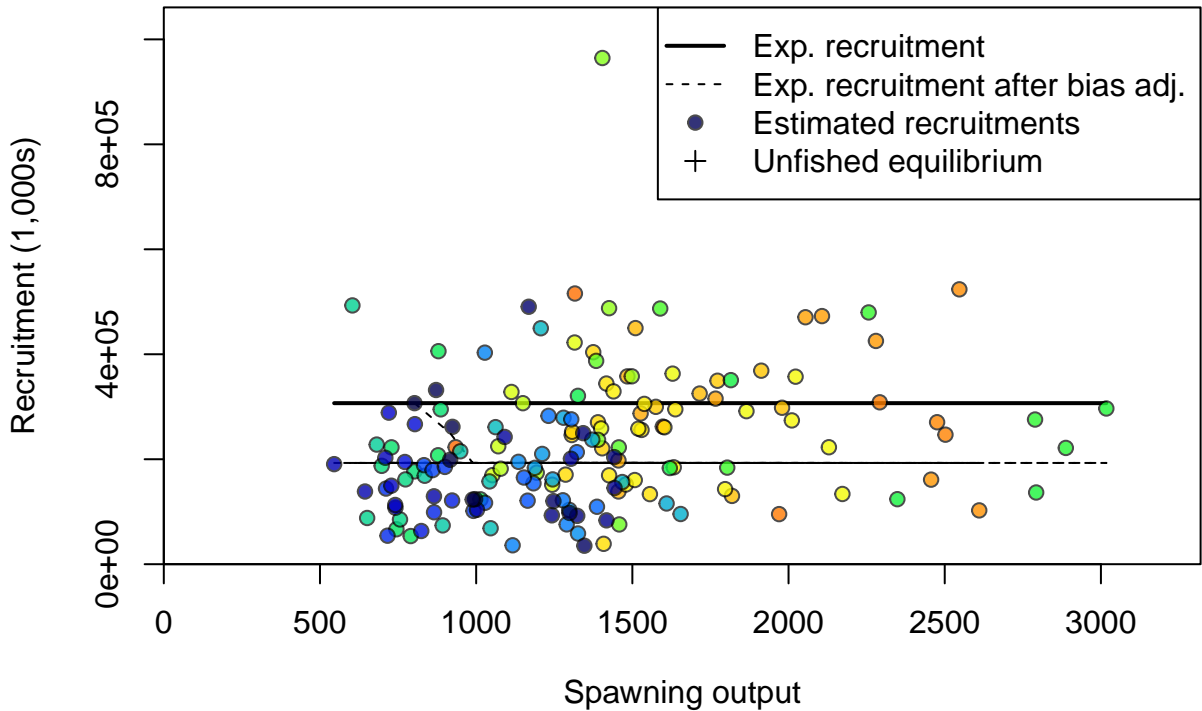


# Recruitment deviation variance

Asymptotic standard error estimate

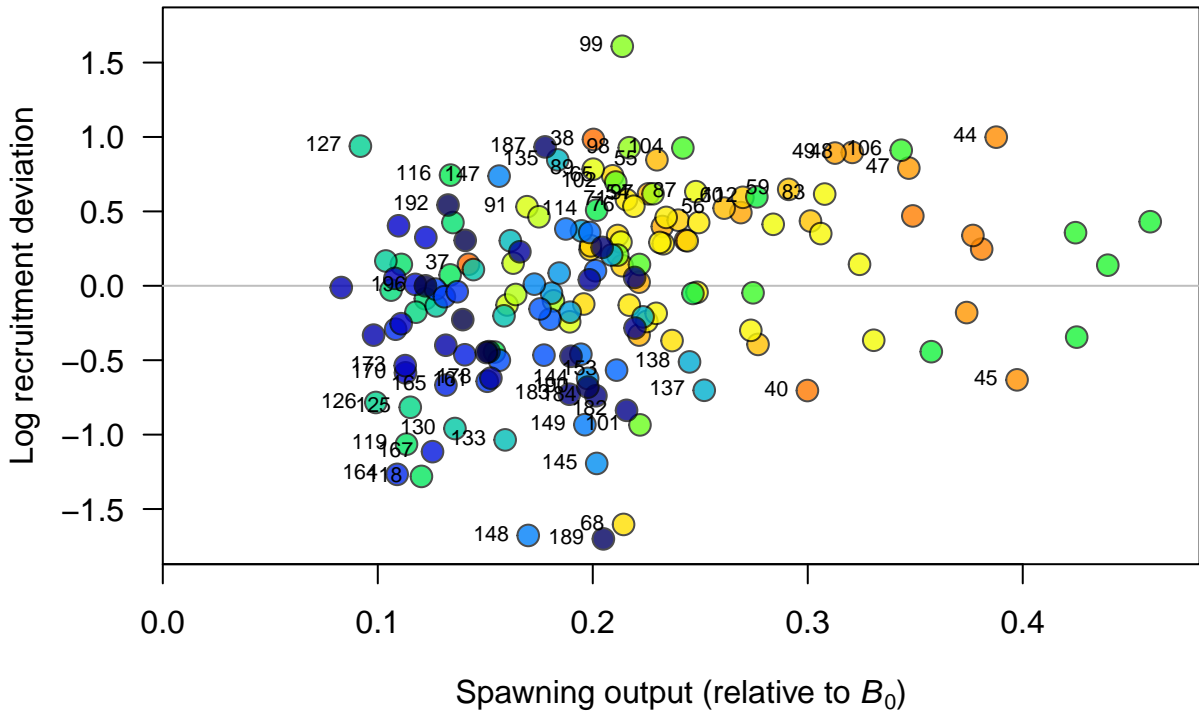




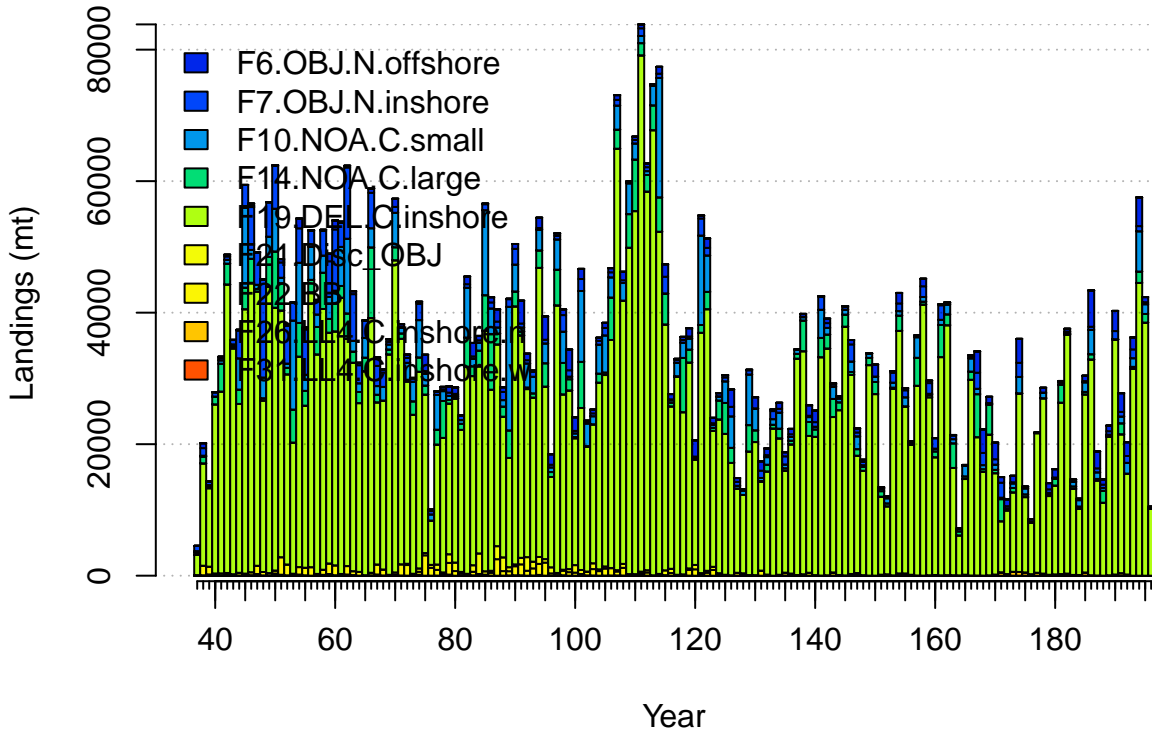


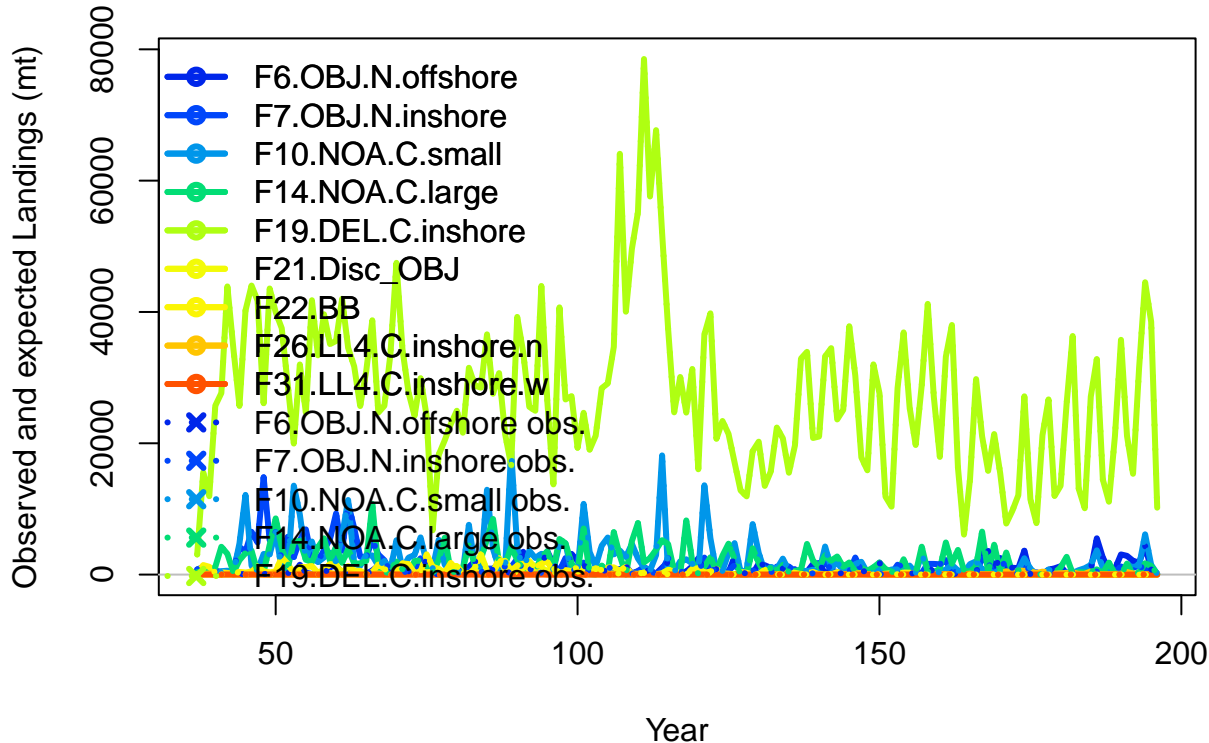




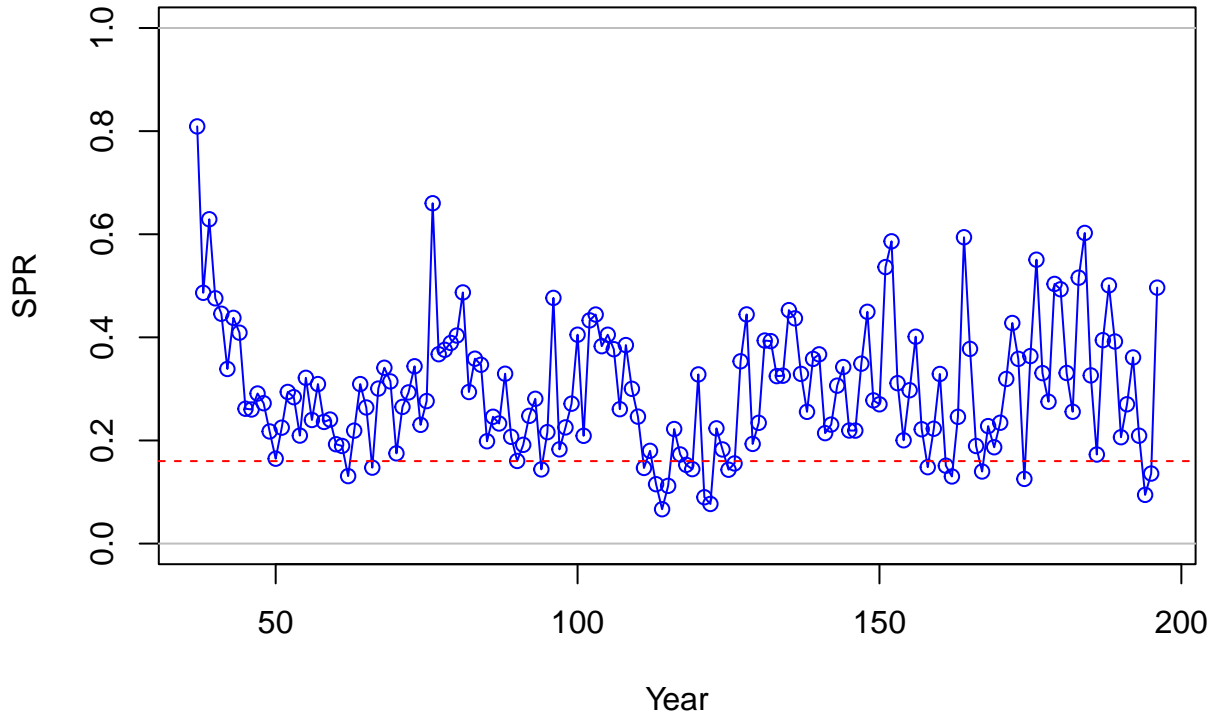


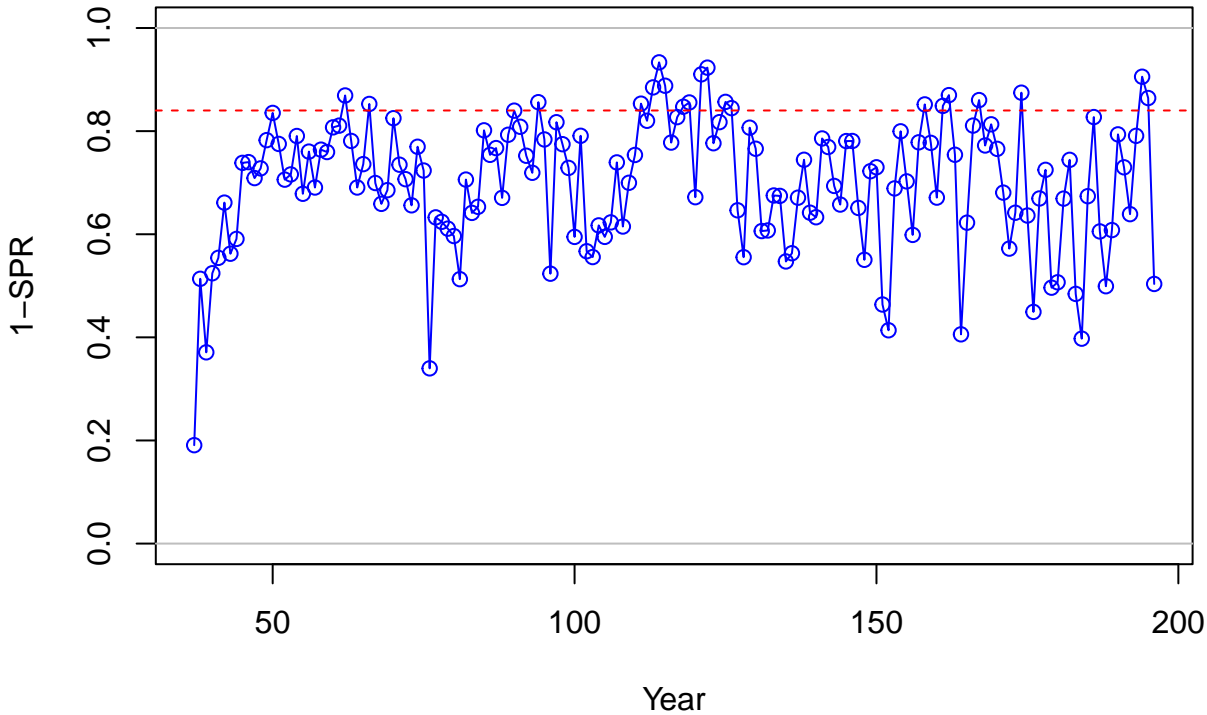




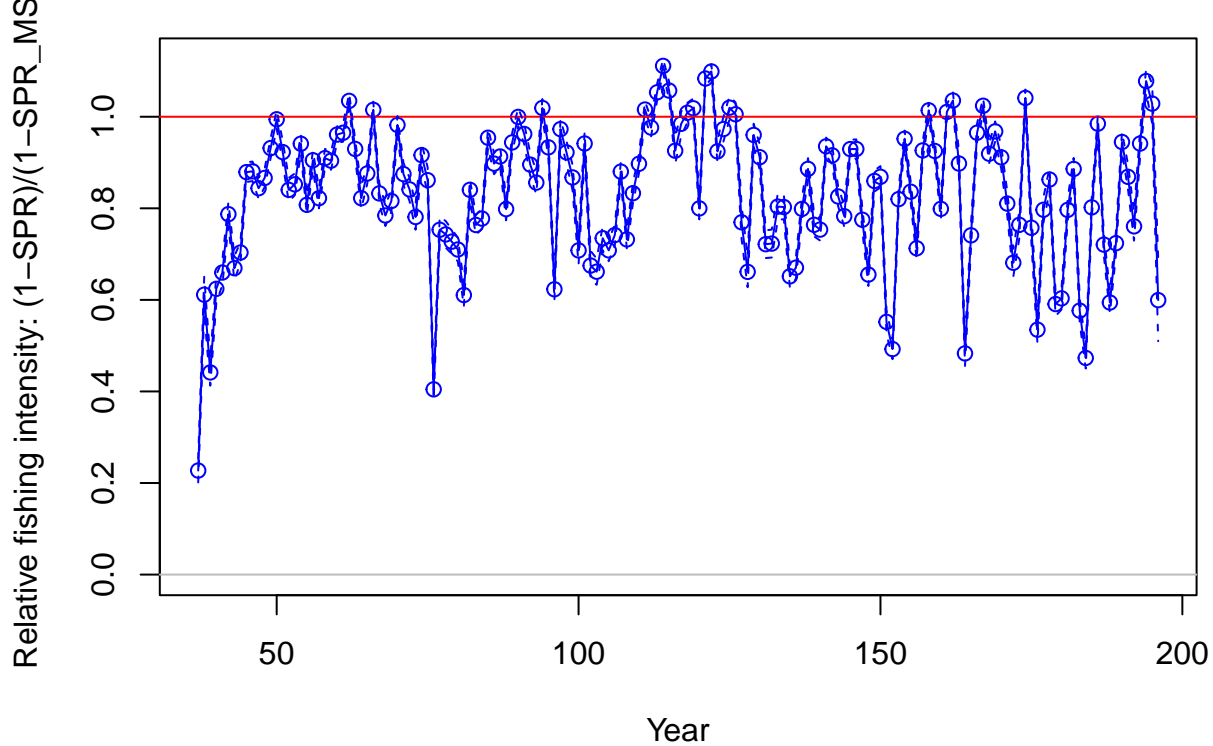


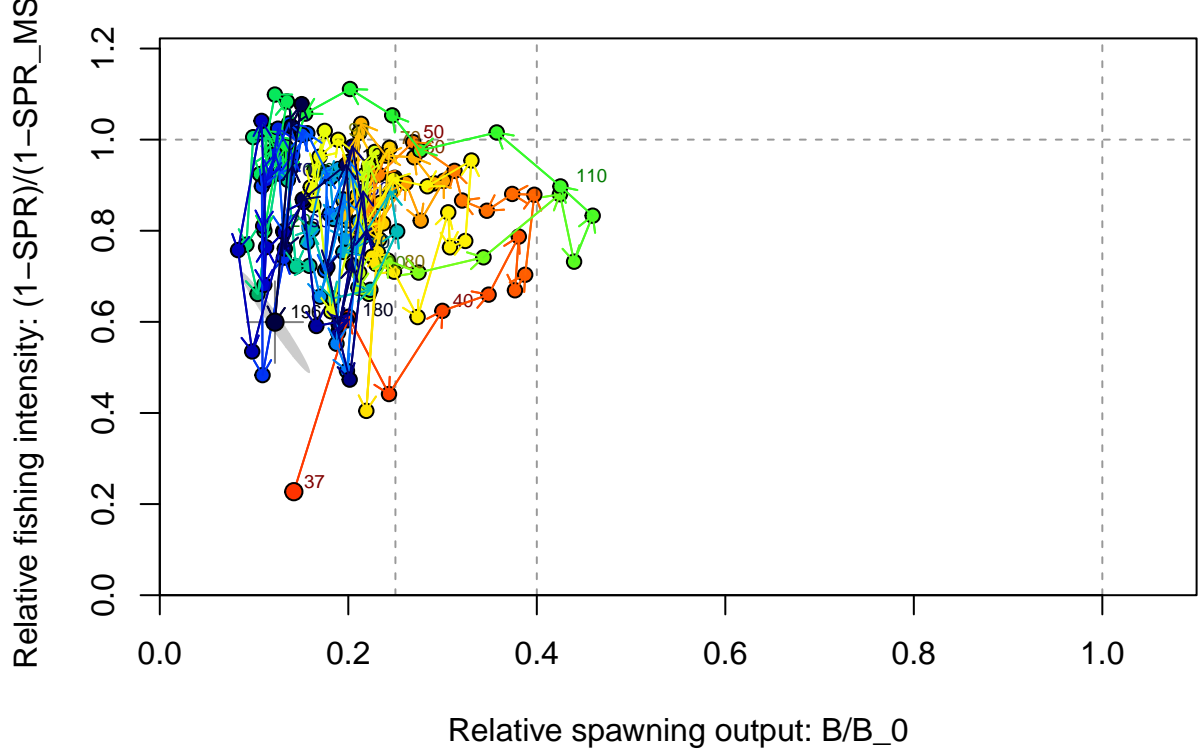




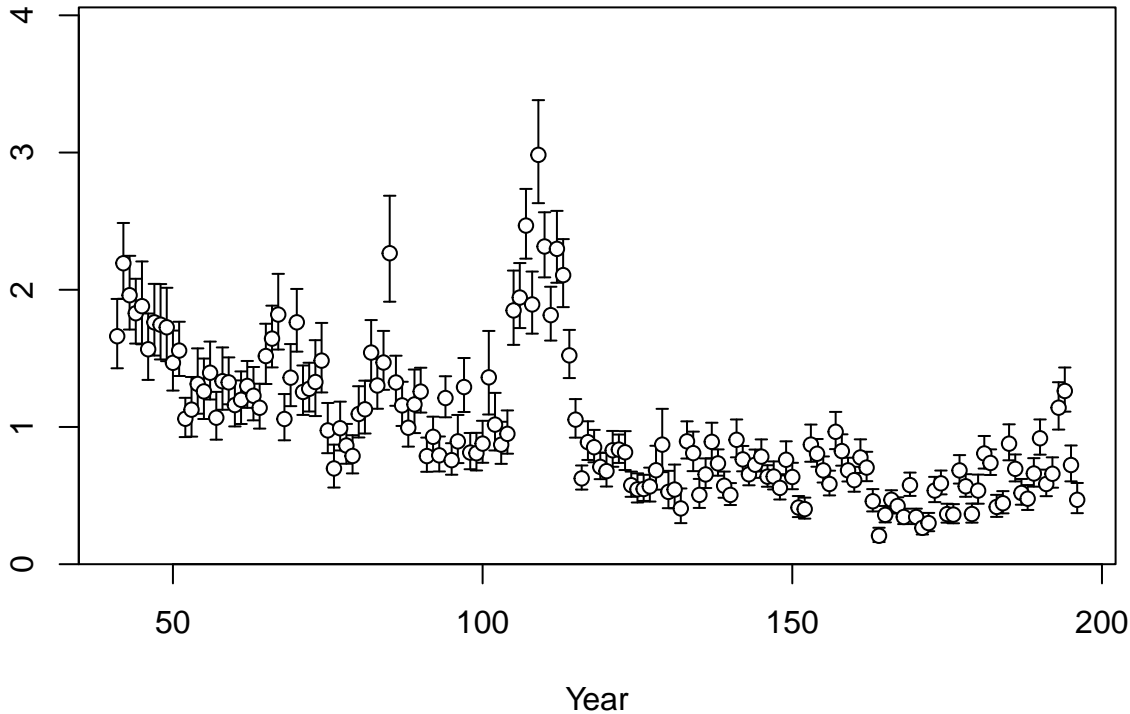




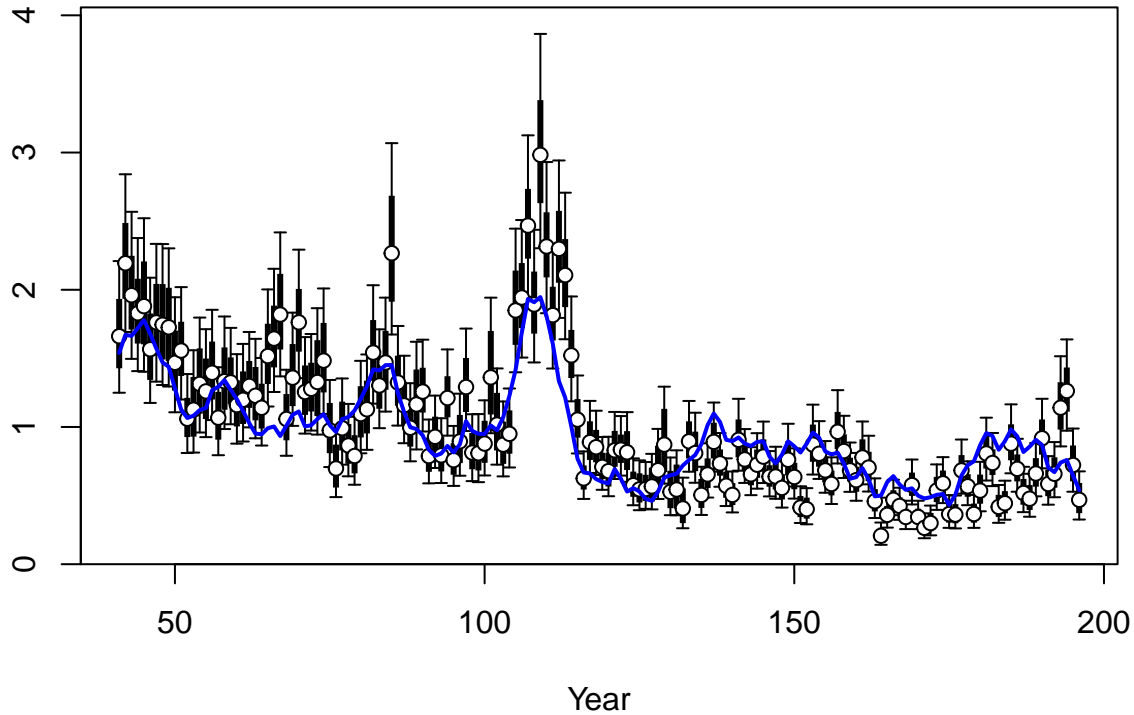




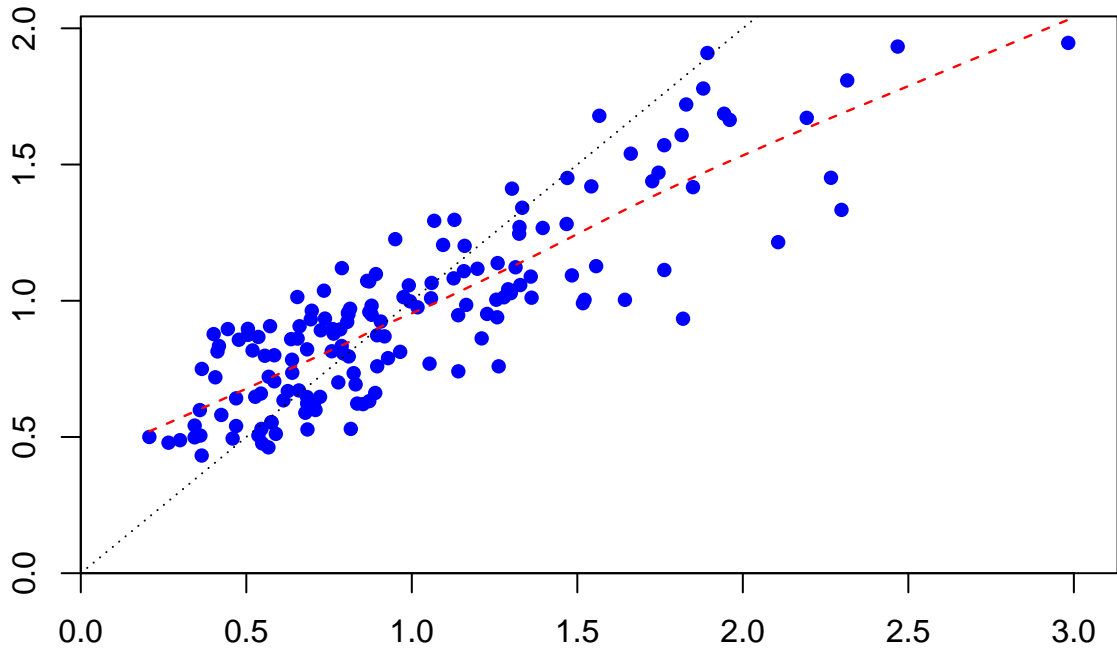
Index



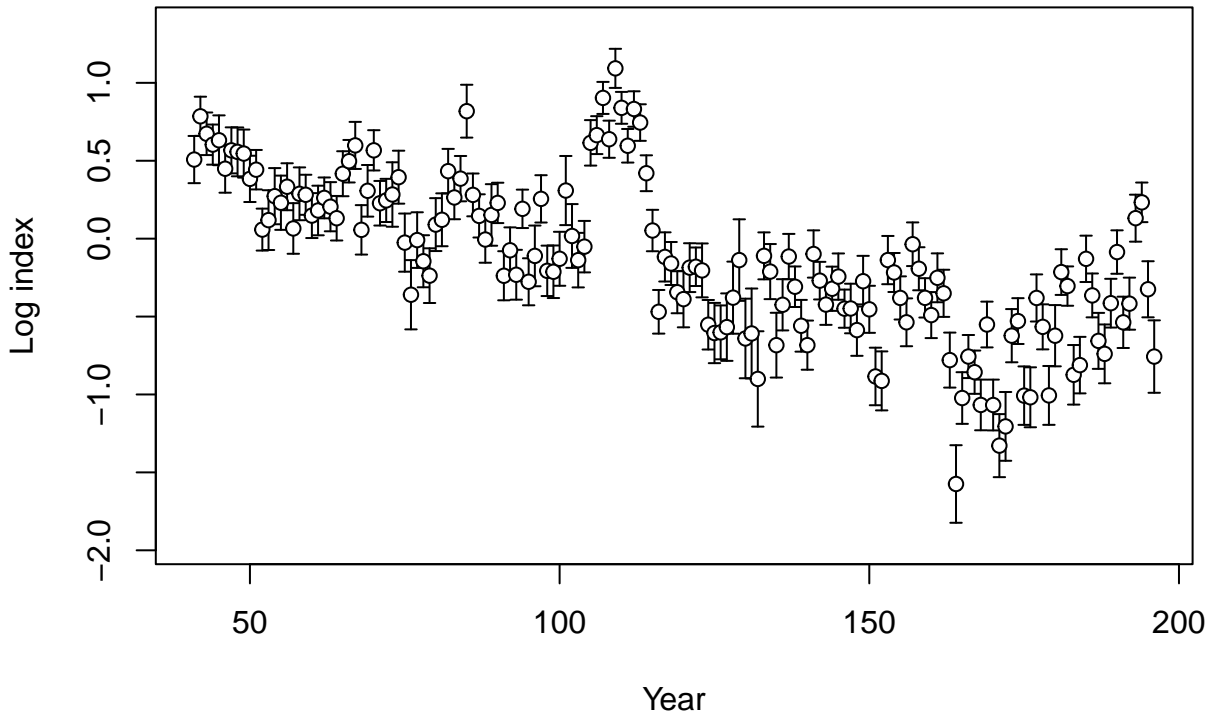
Index

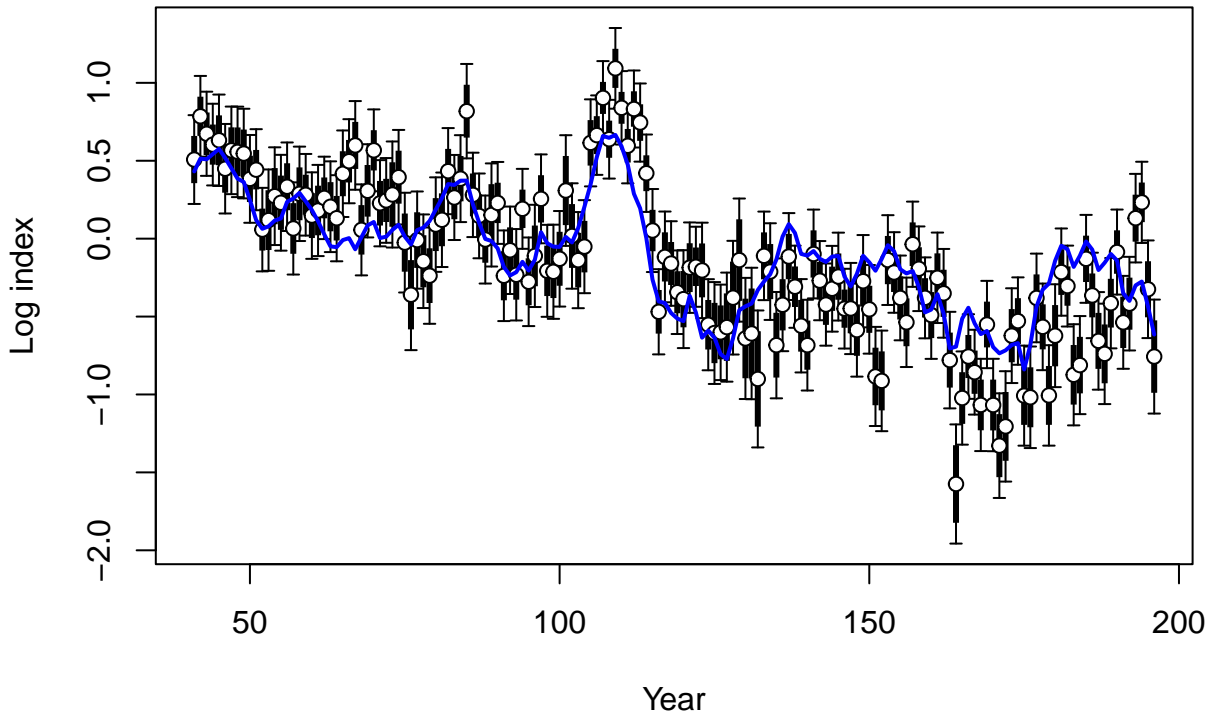


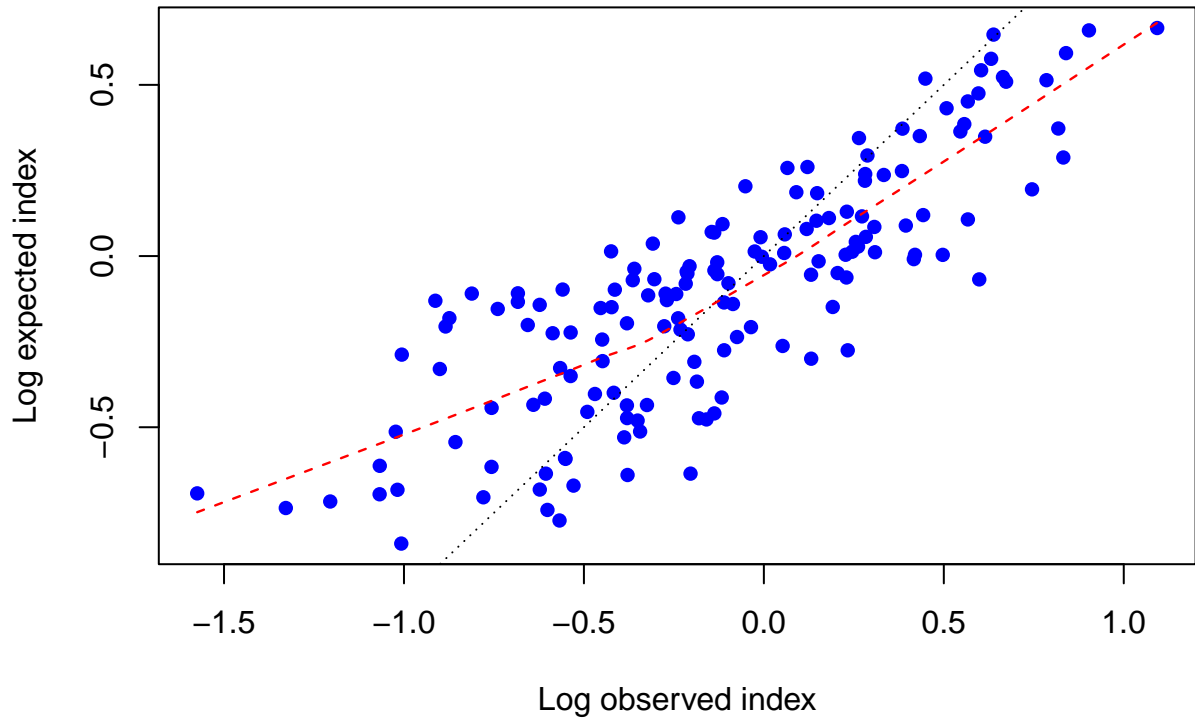
Expected index



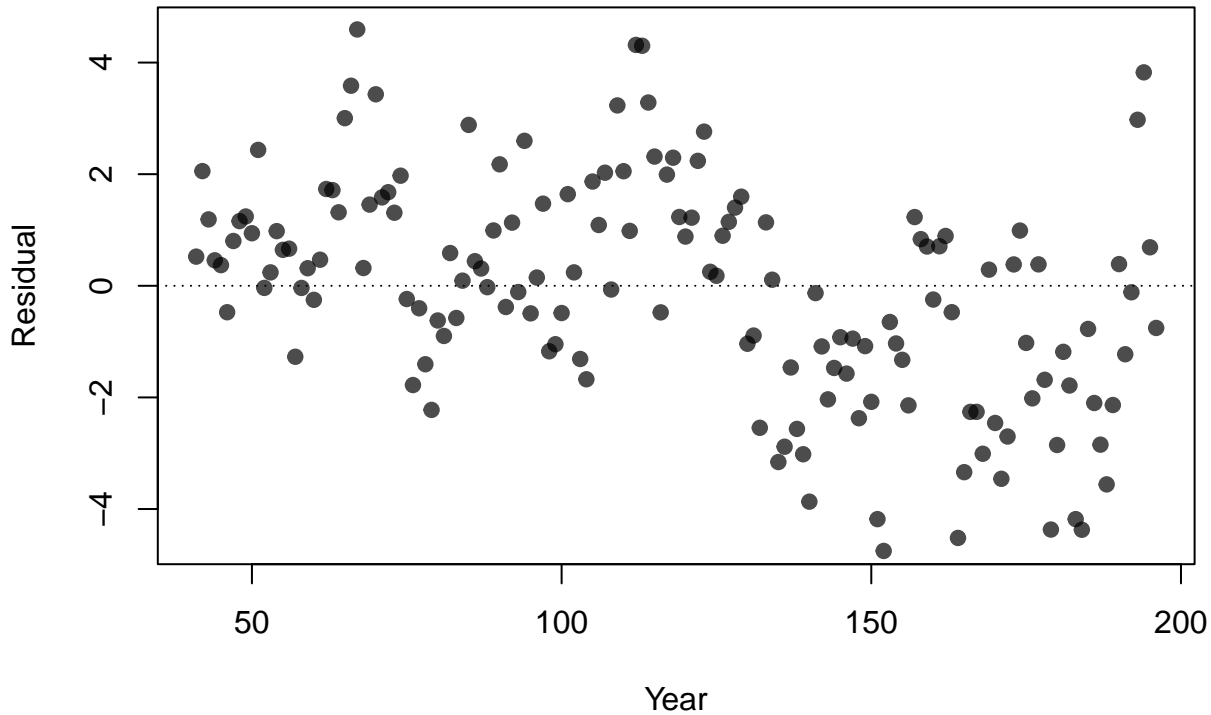
Observed index

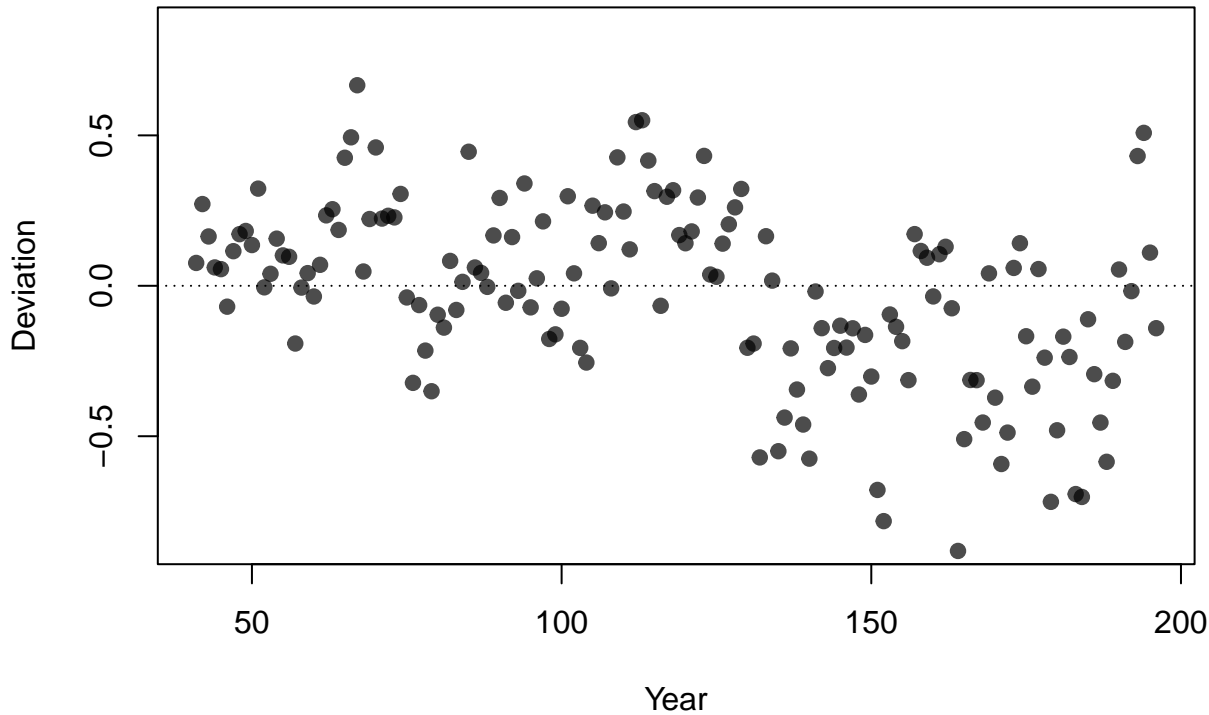


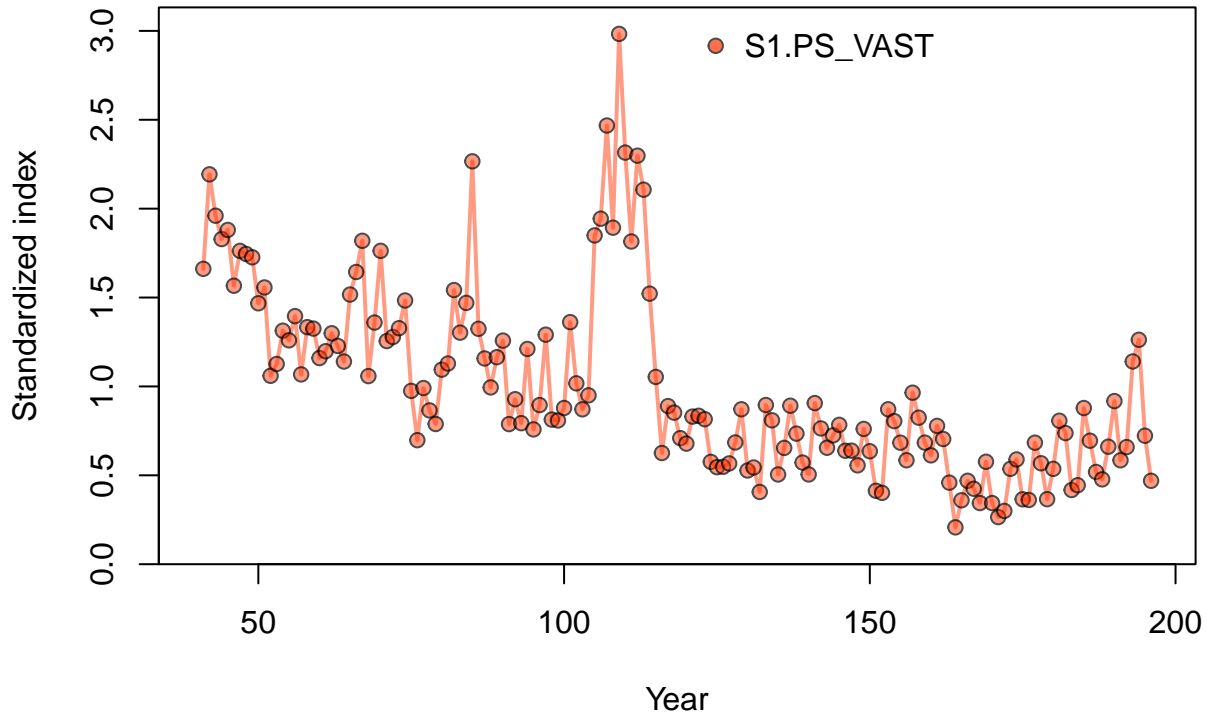


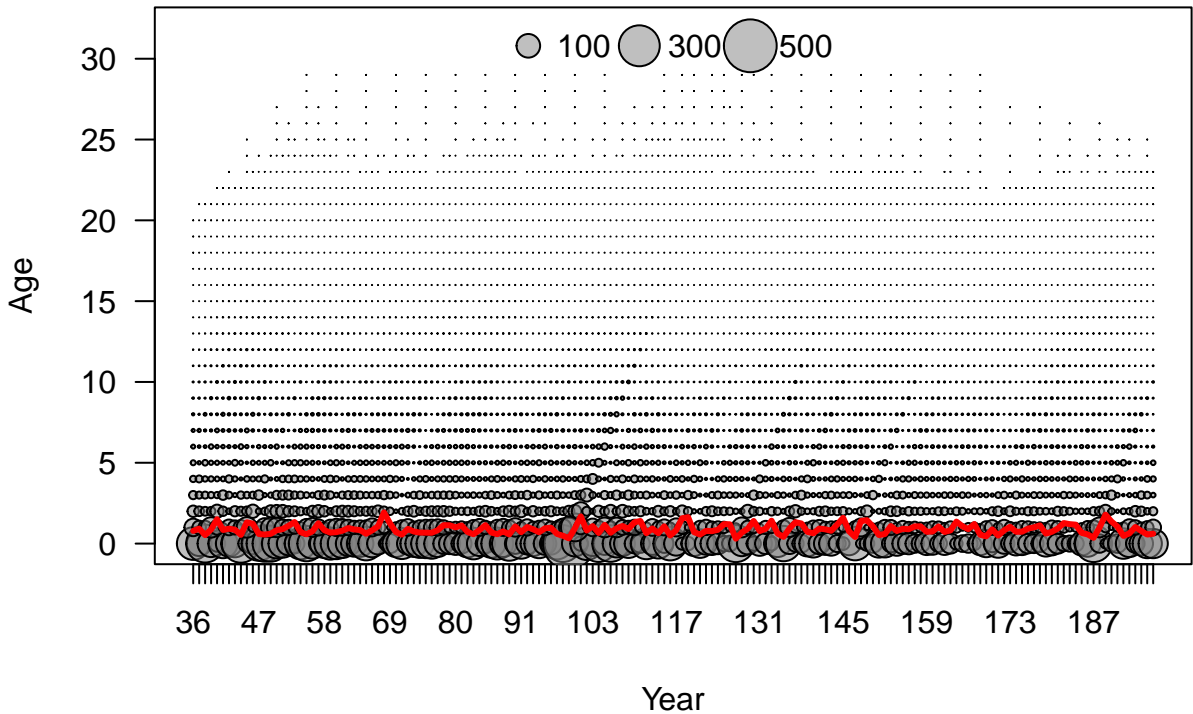


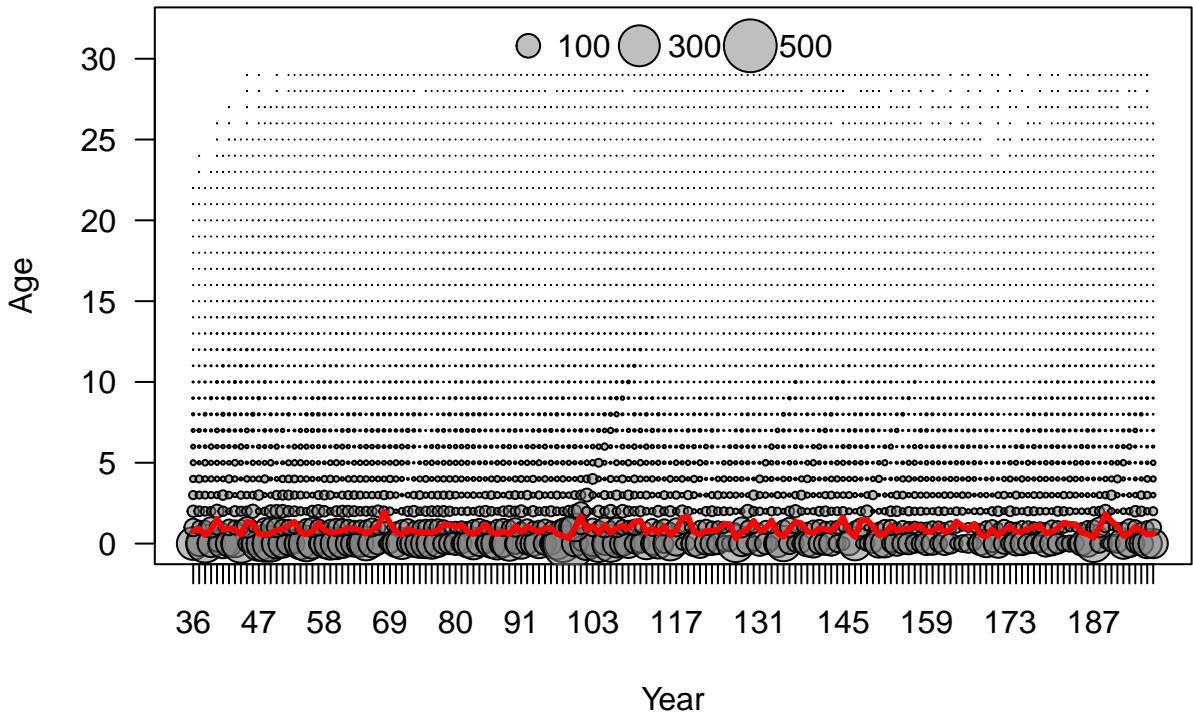




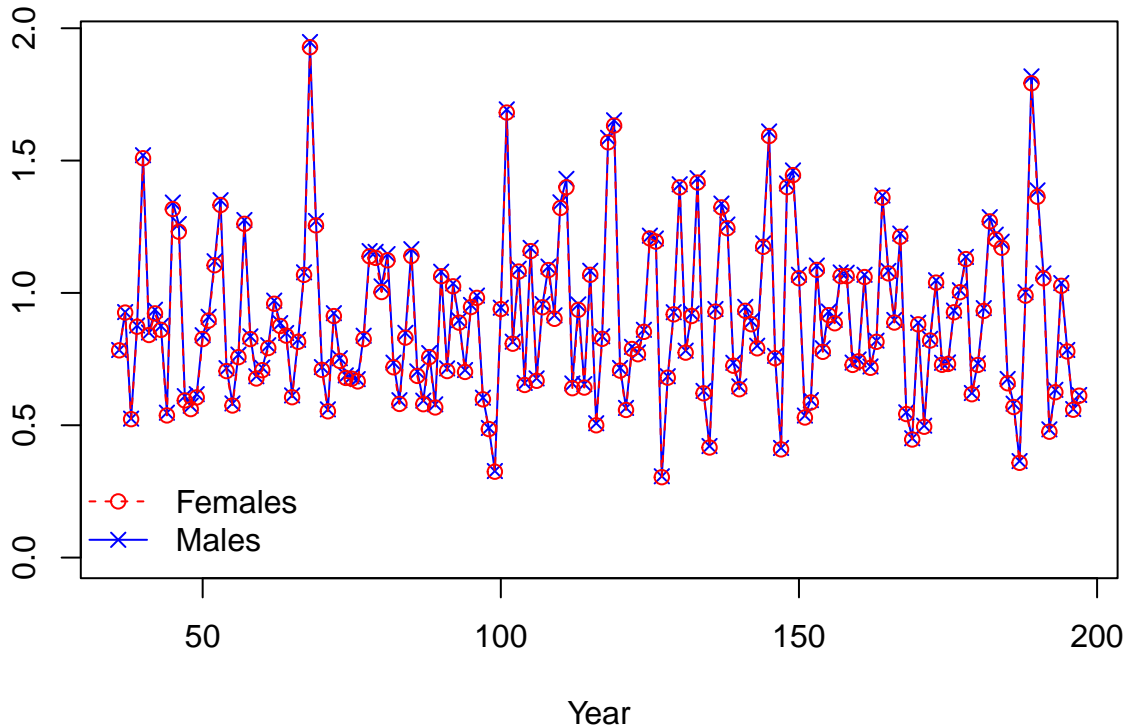


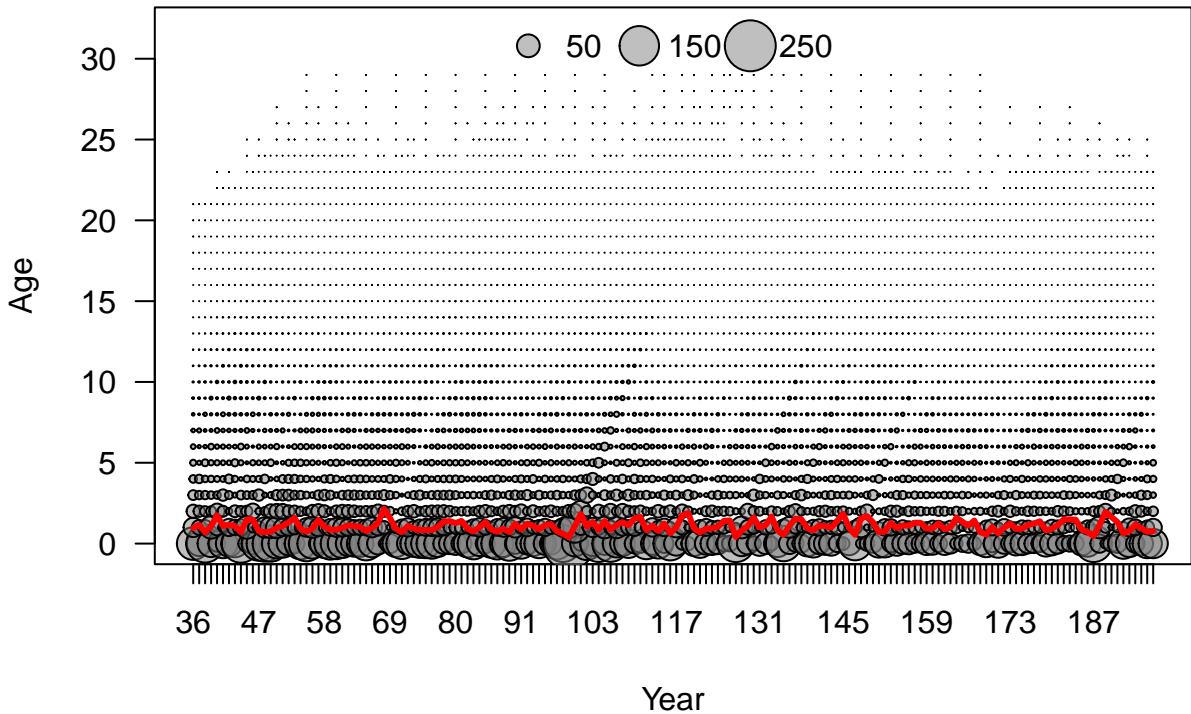


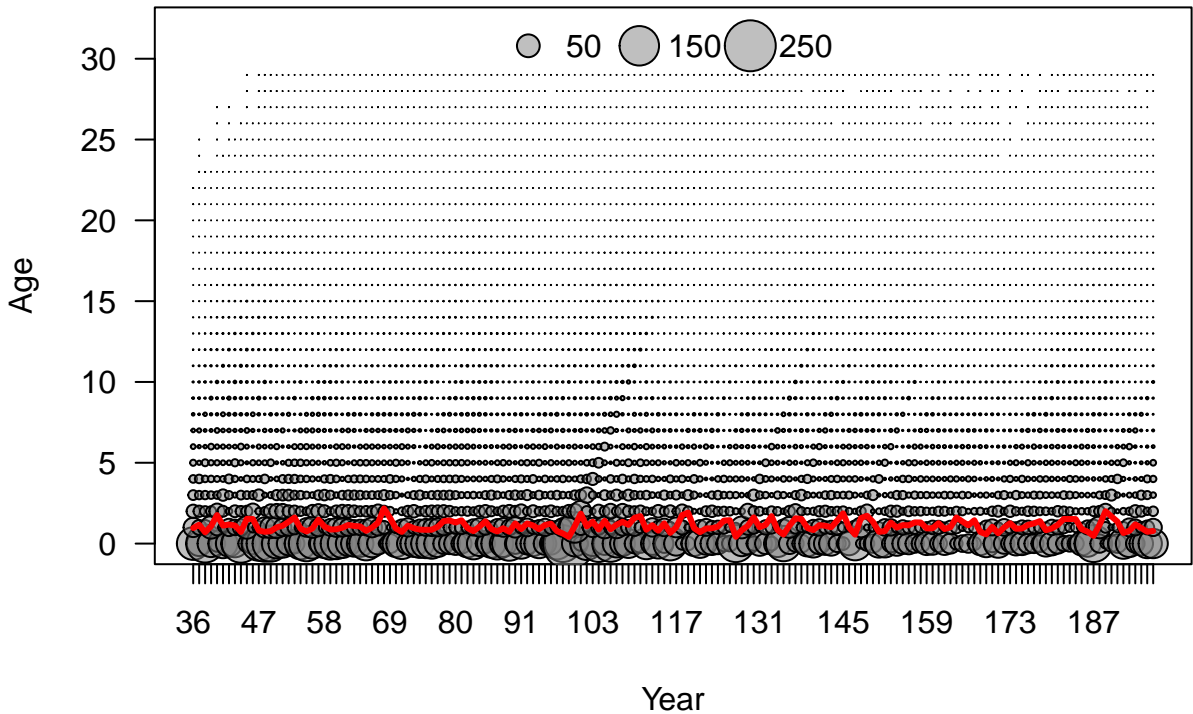




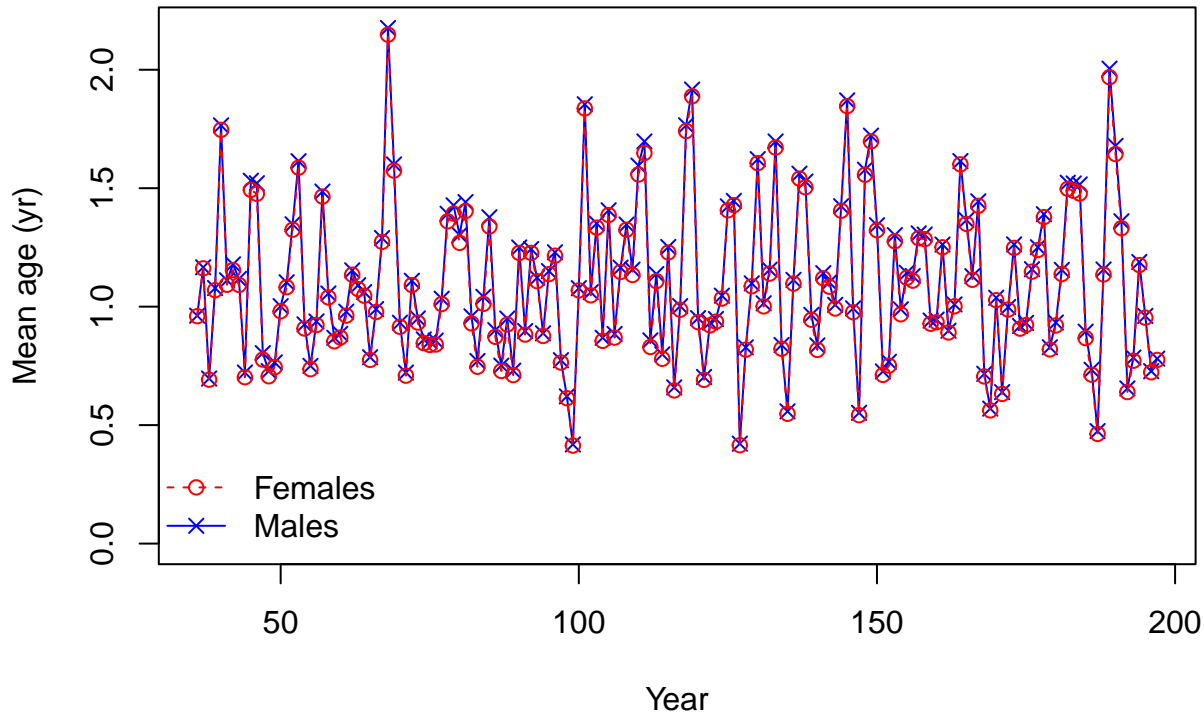
Mean age (yr)

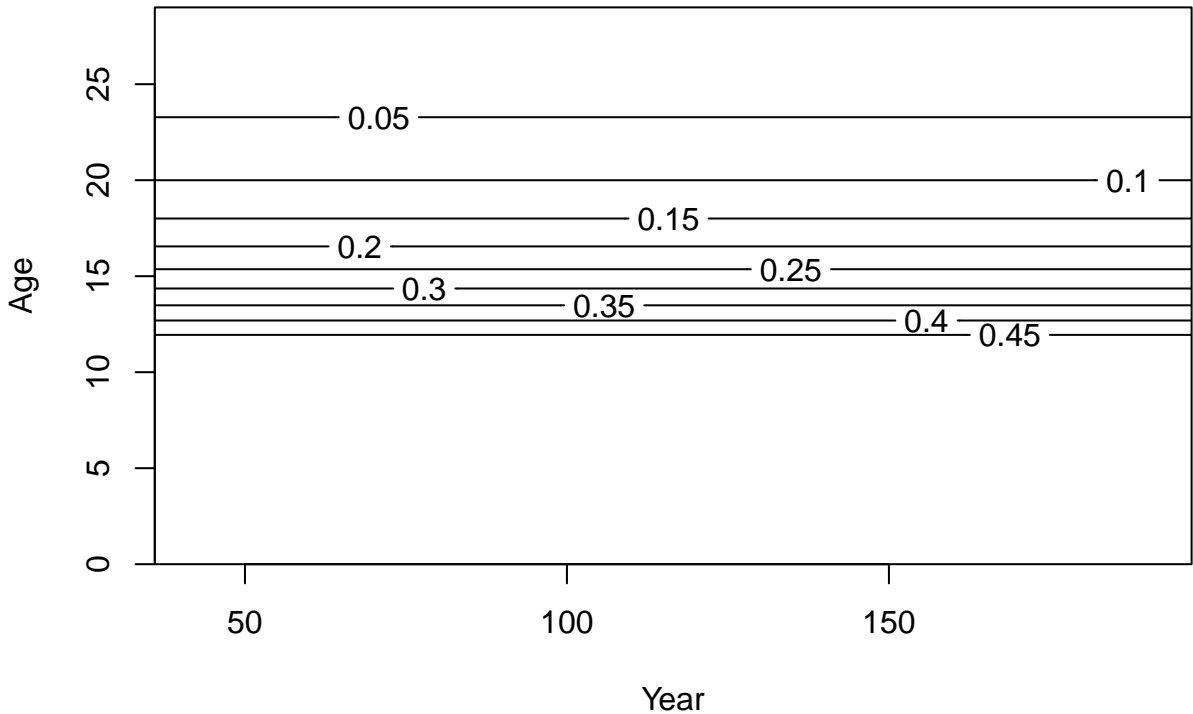


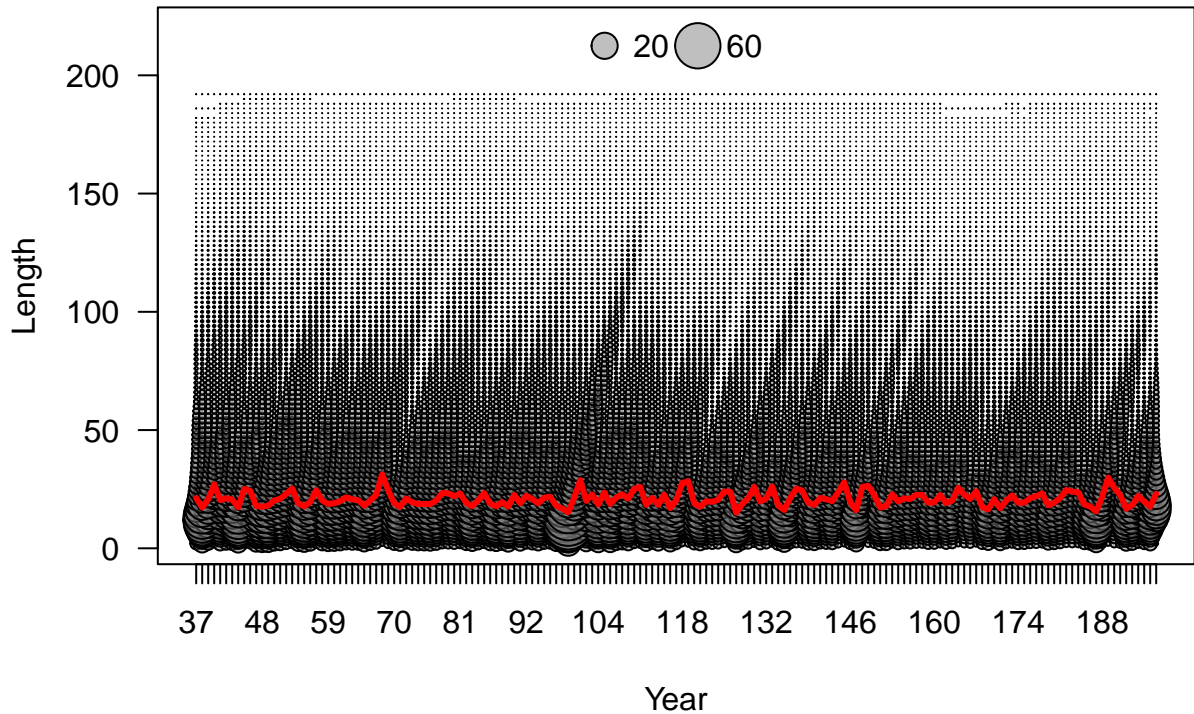


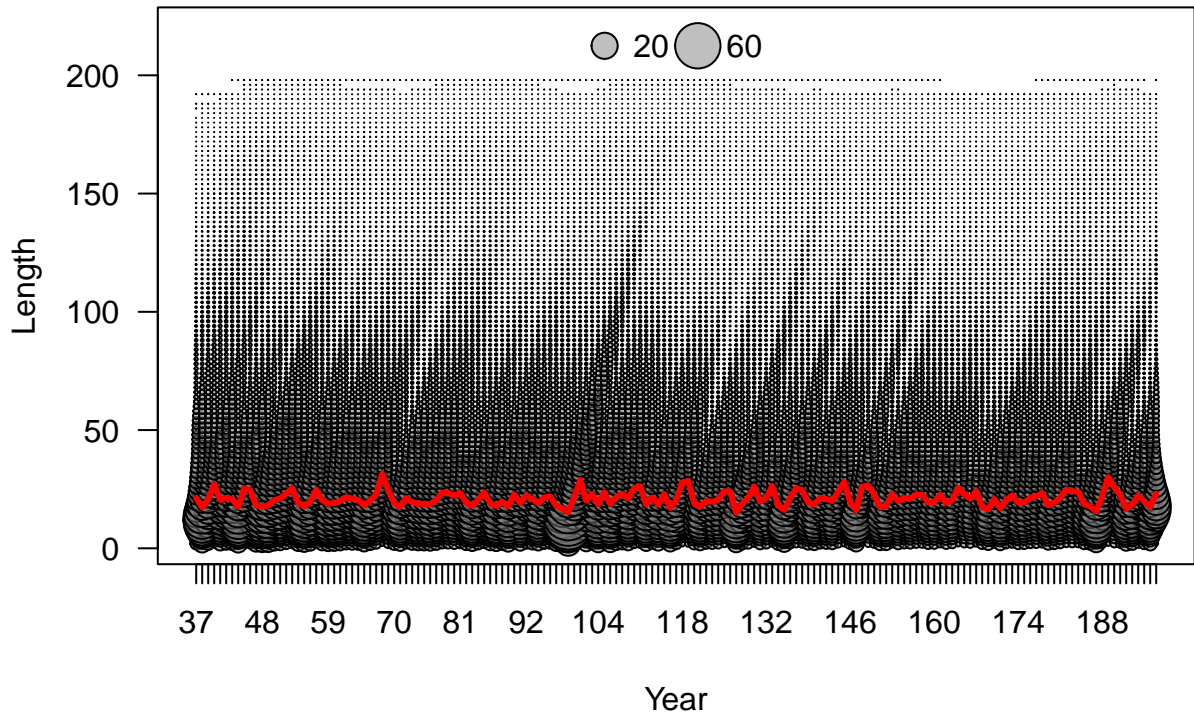


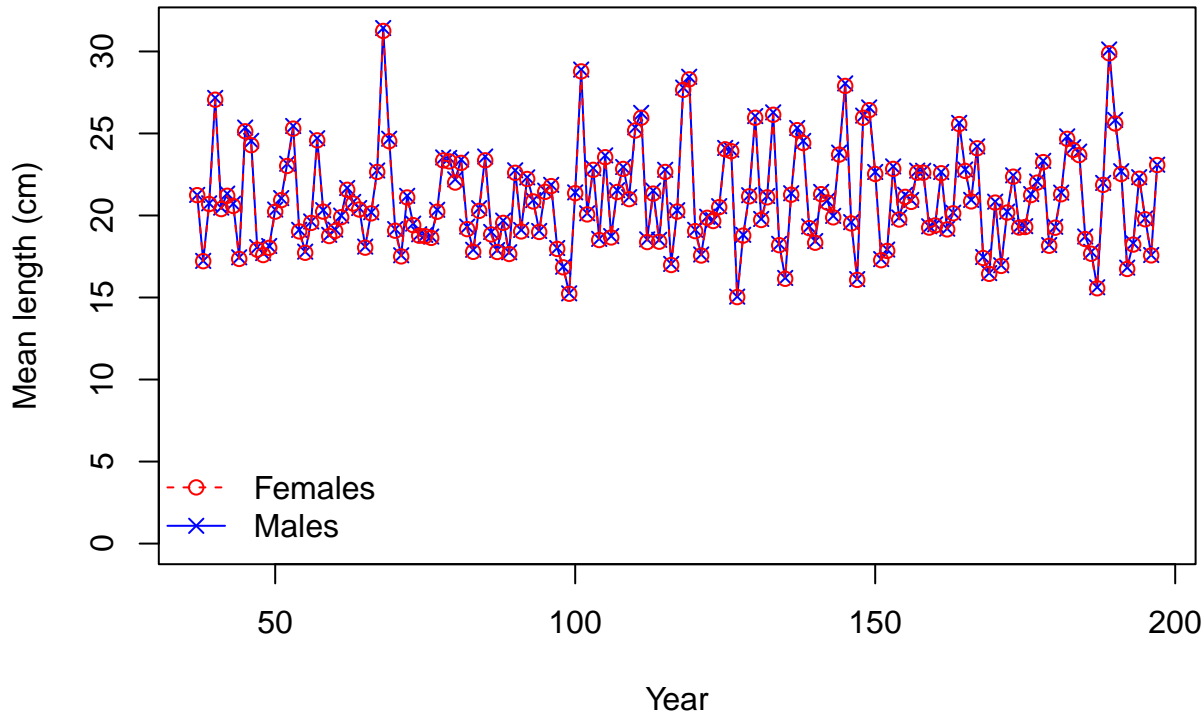


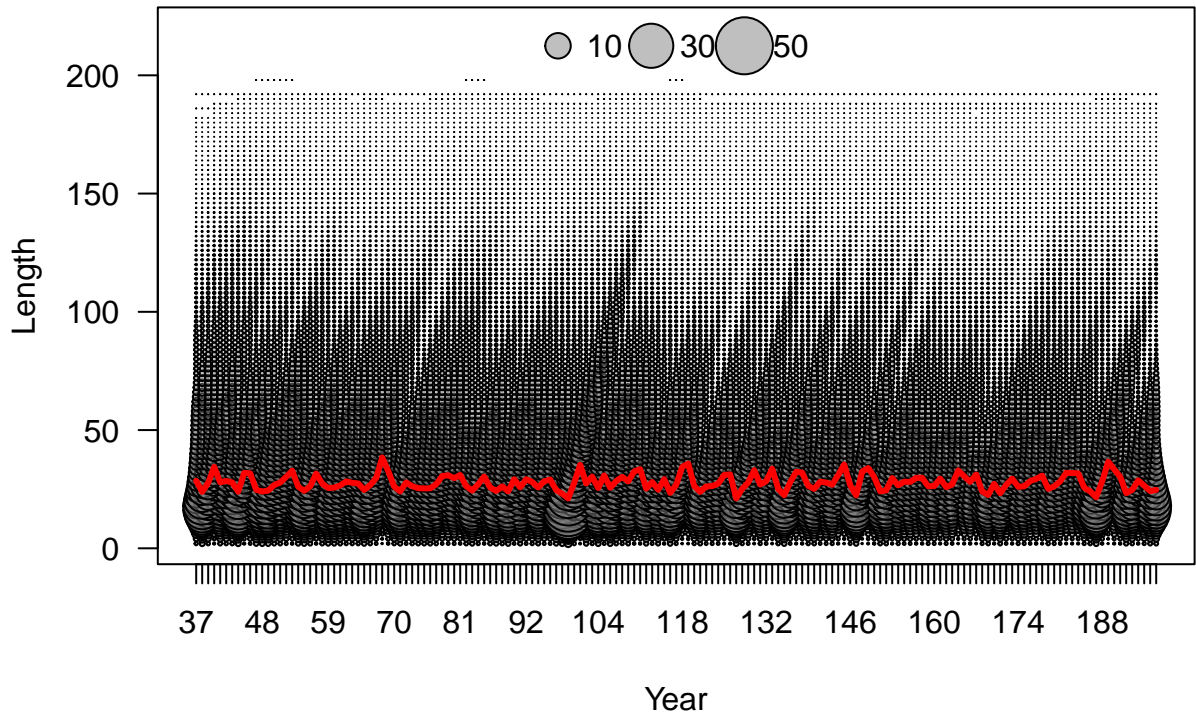


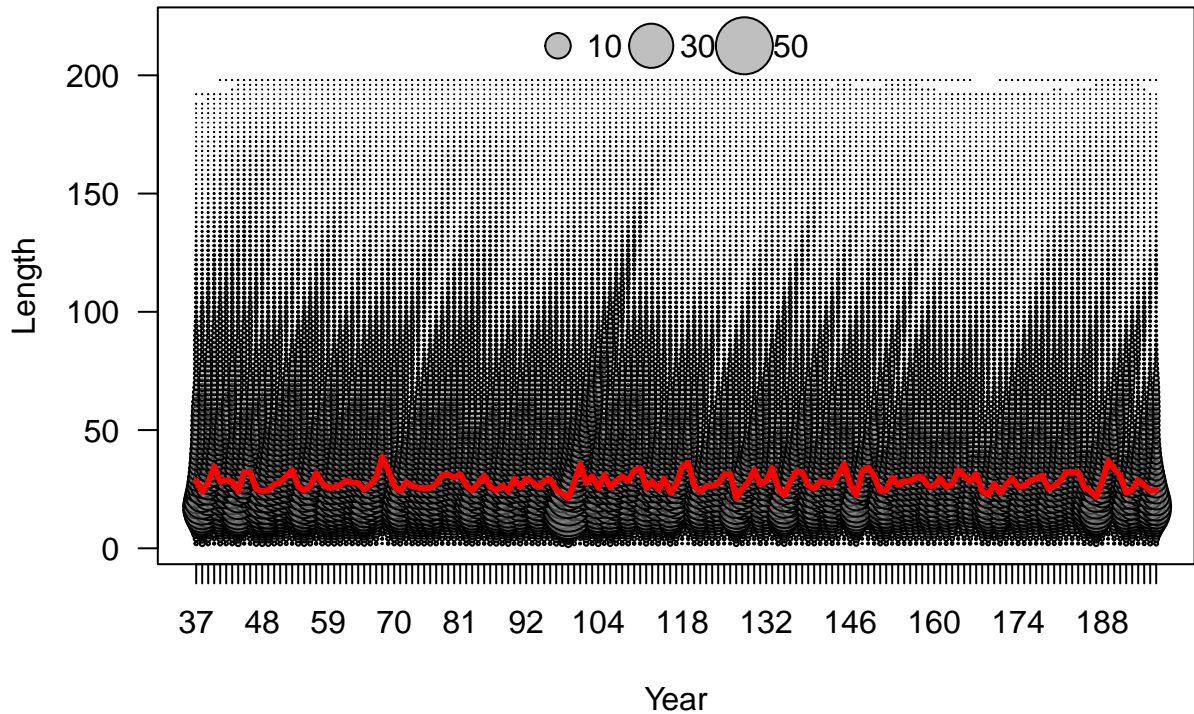


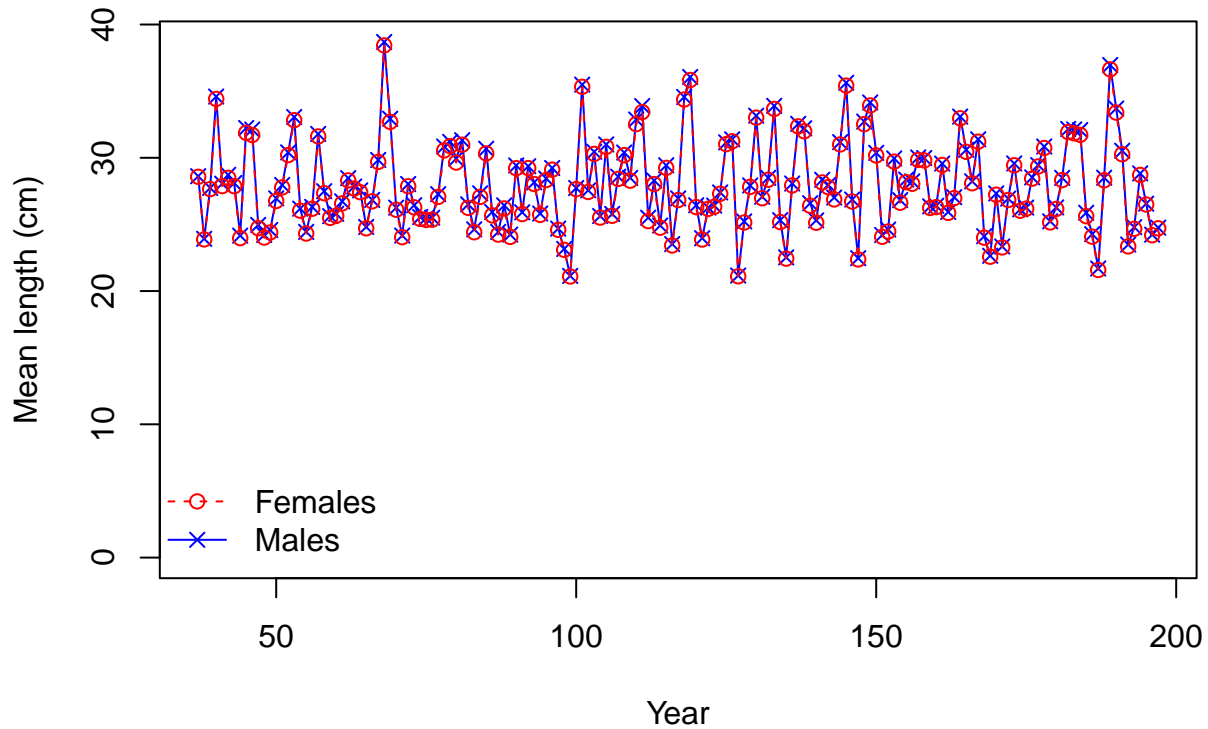




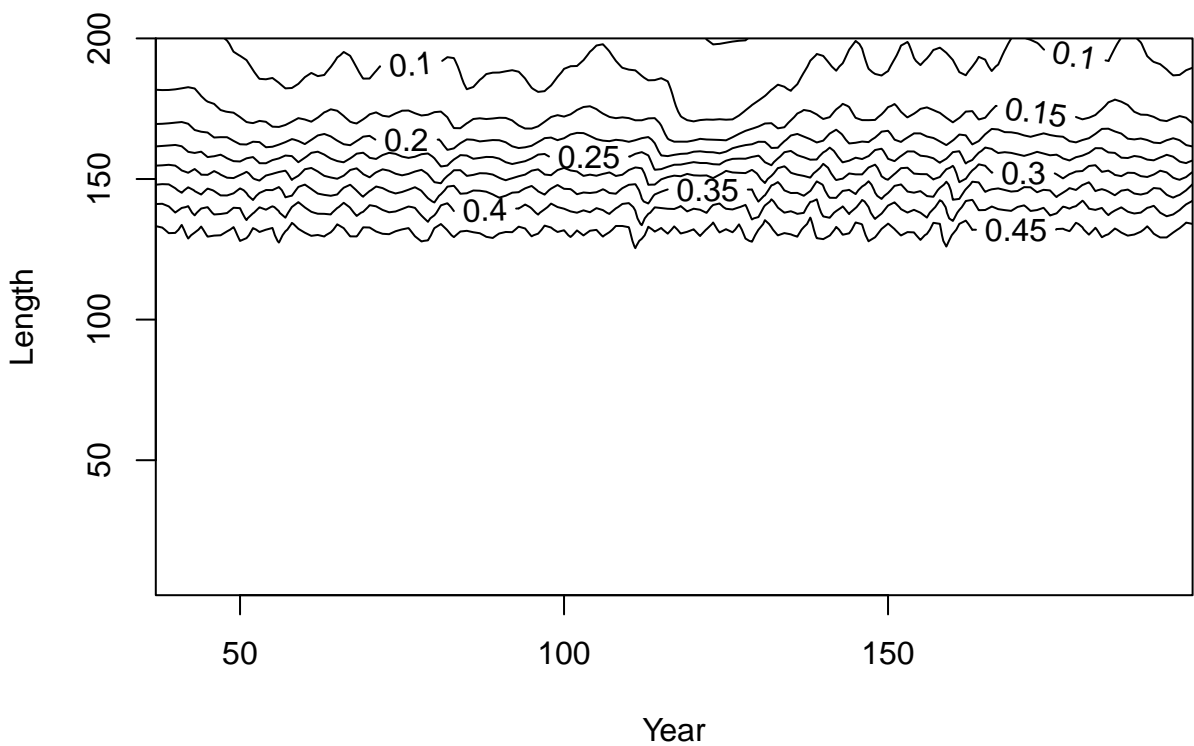


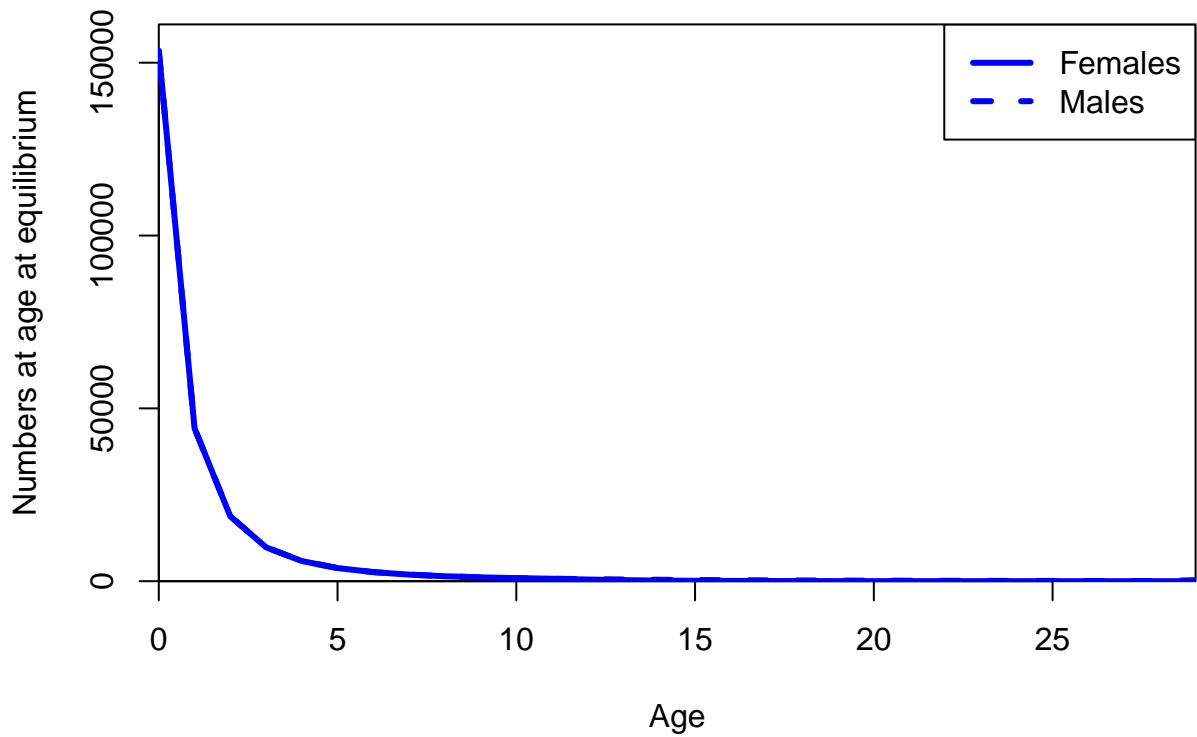


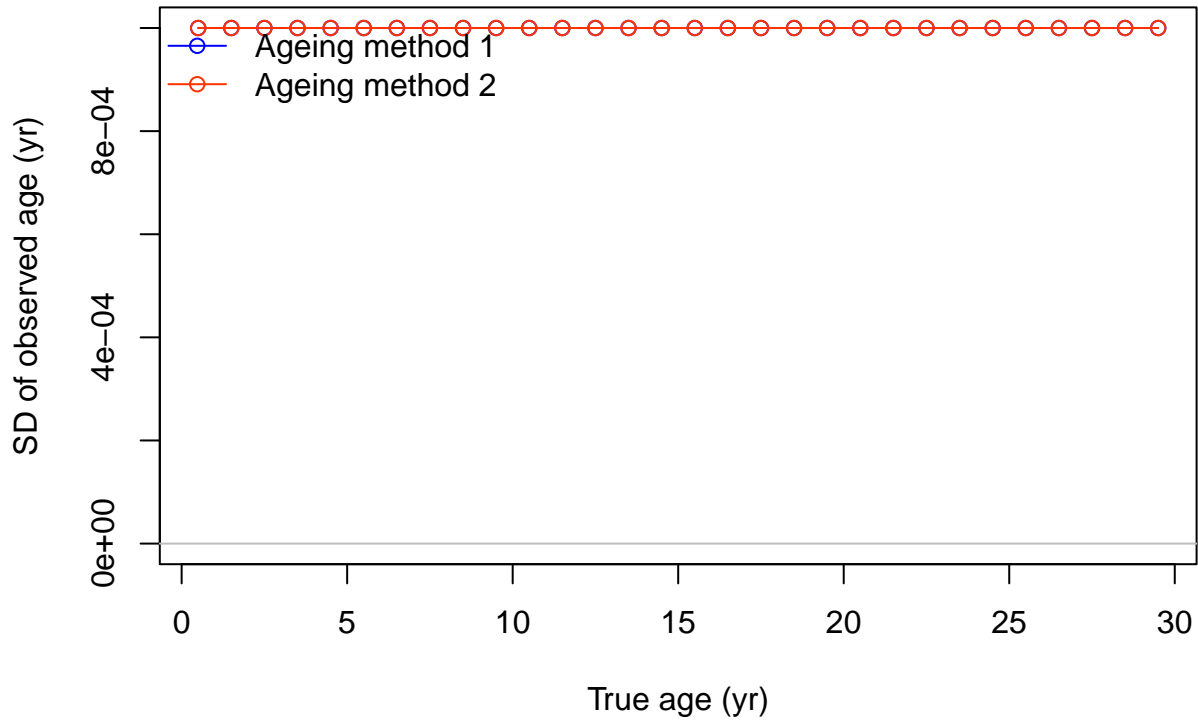


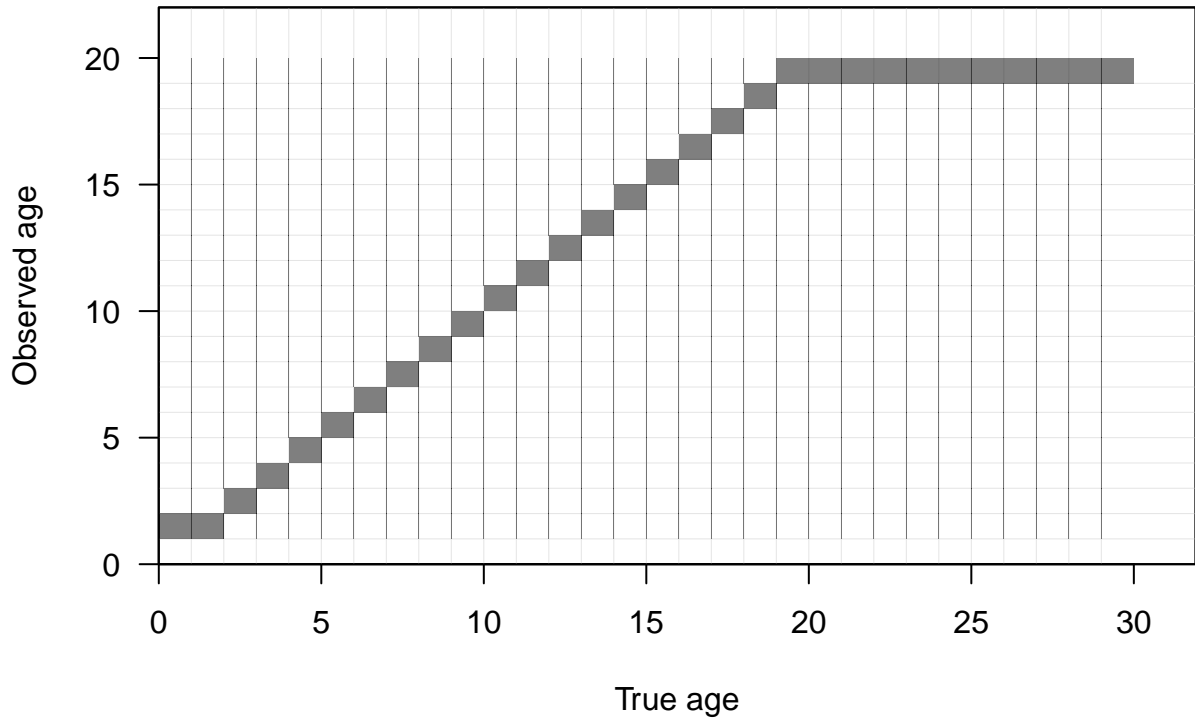


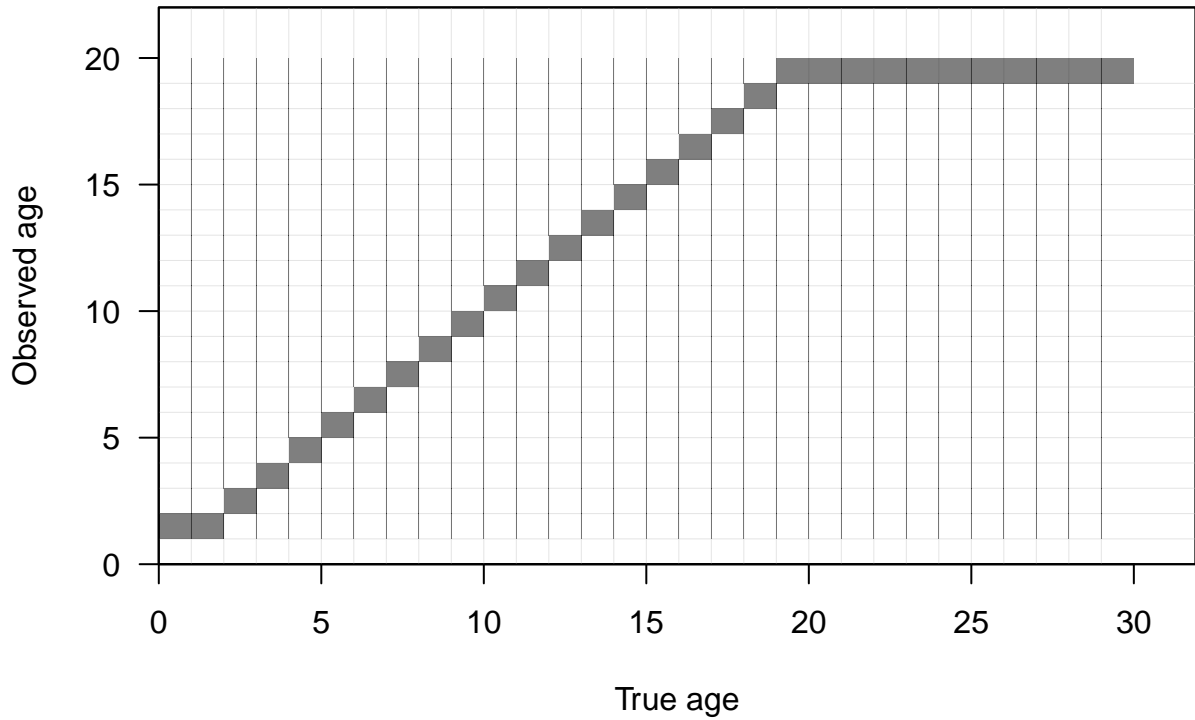




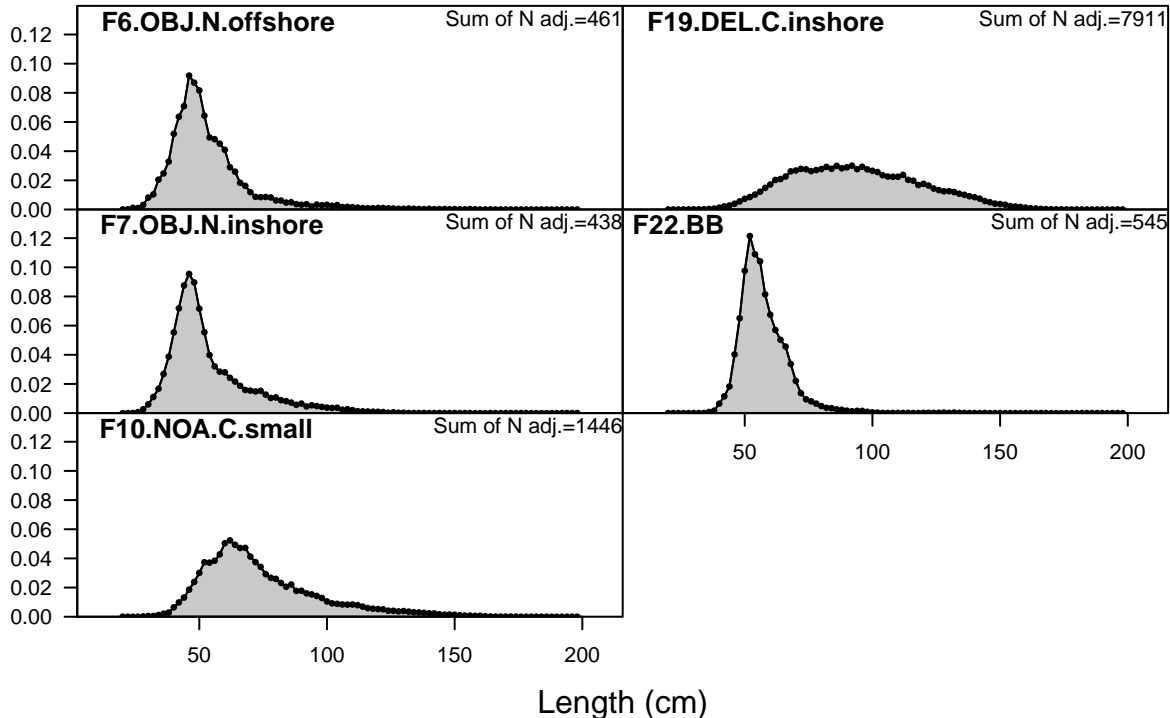


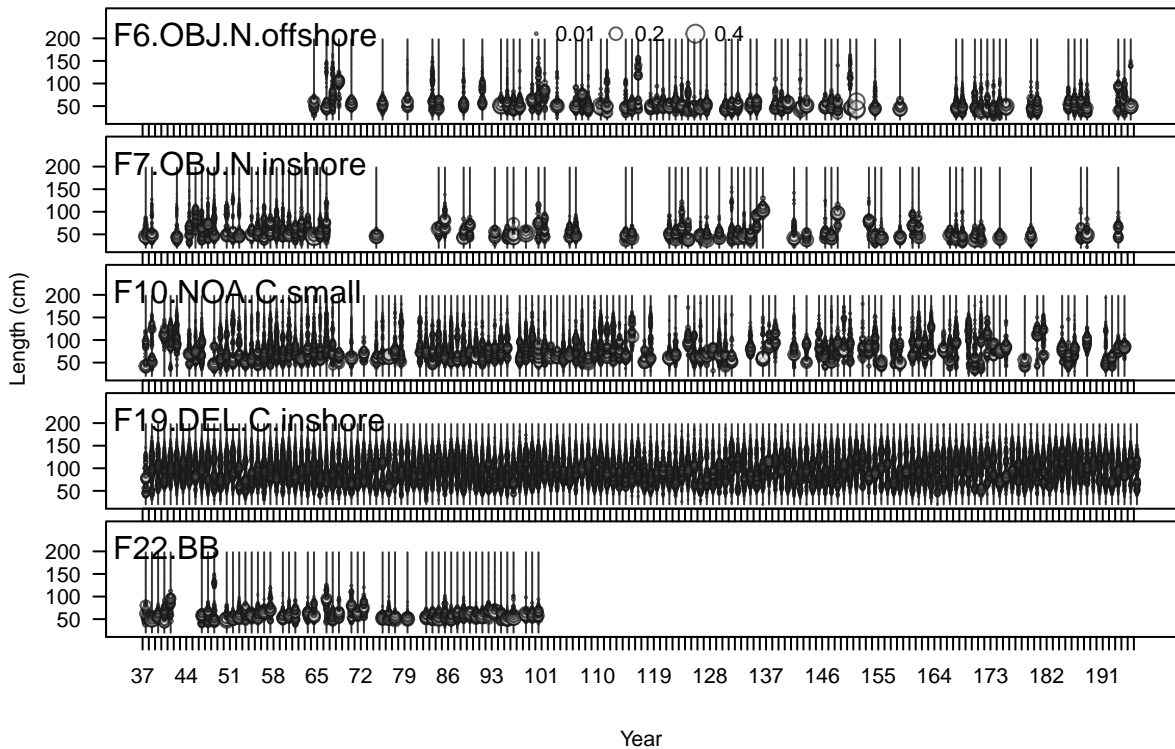




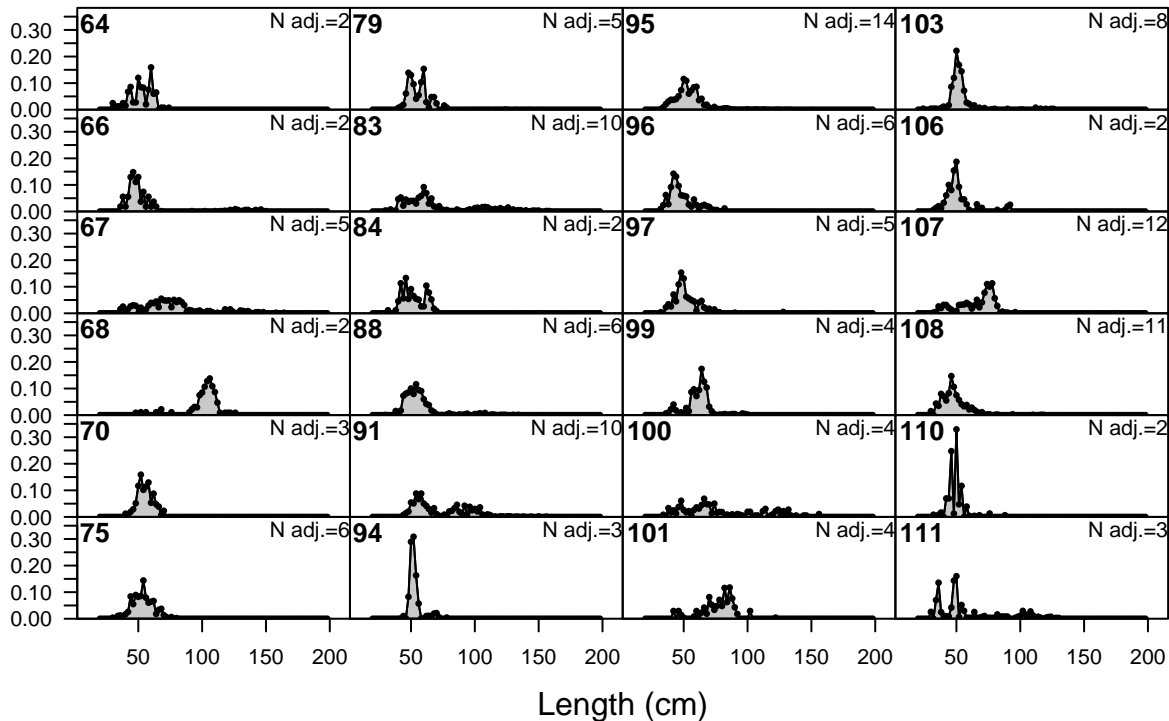


Proportion



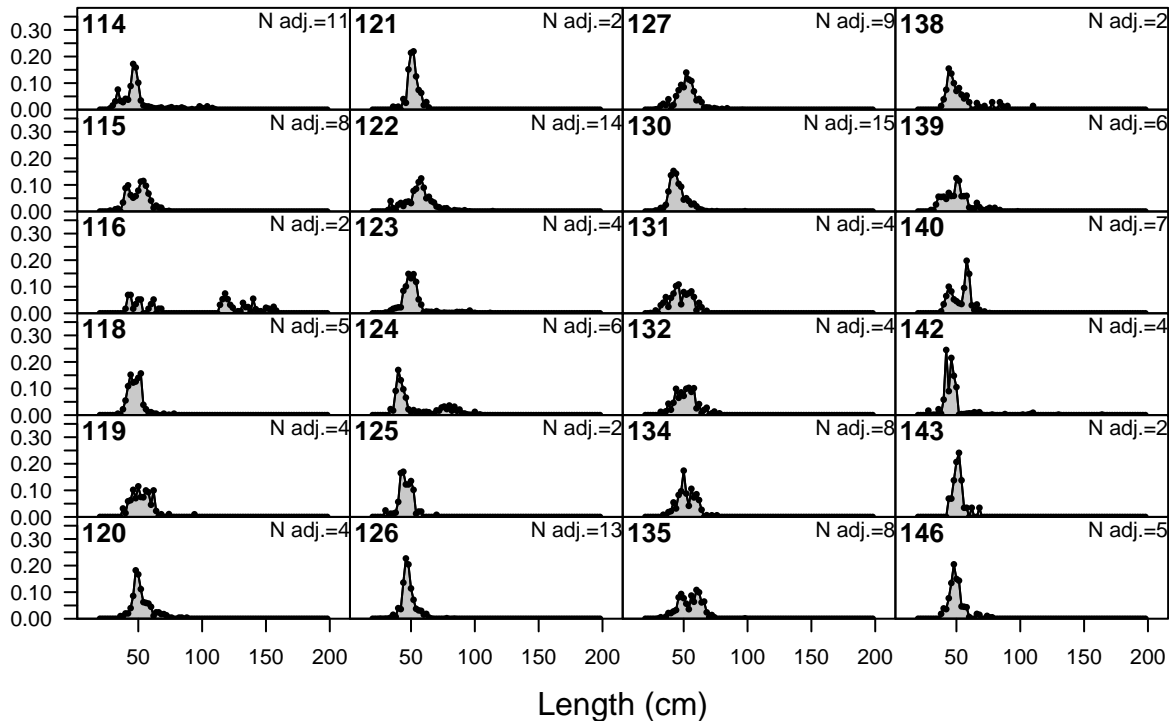


Proportion

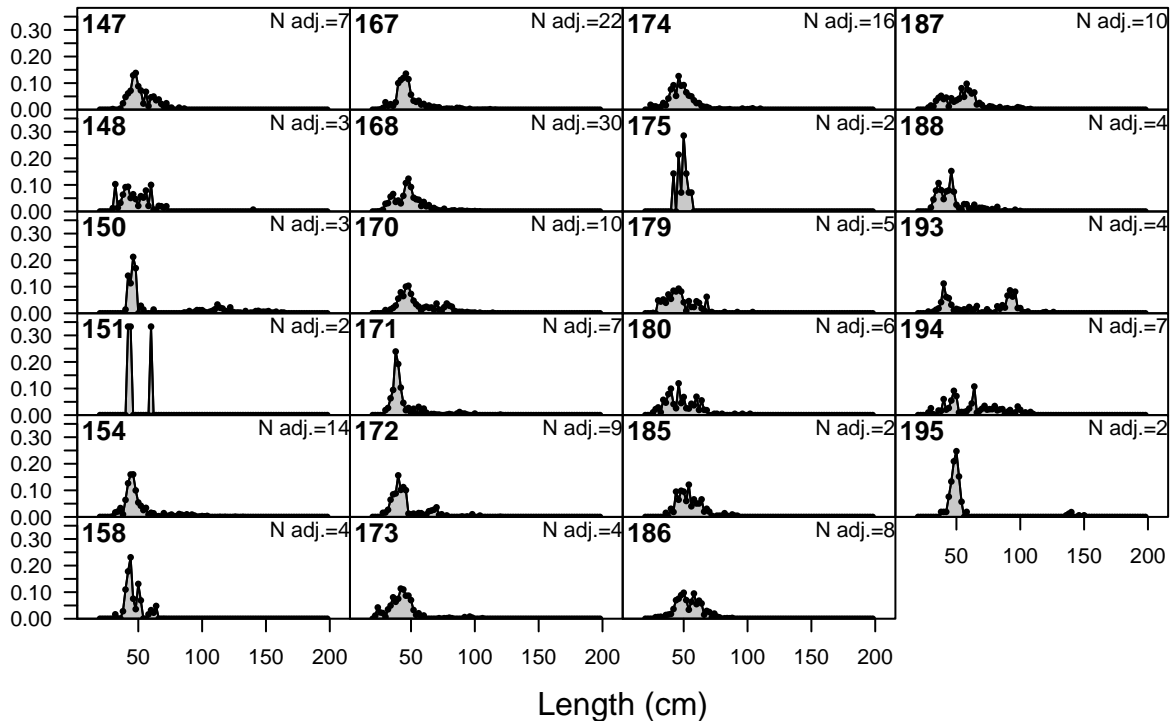


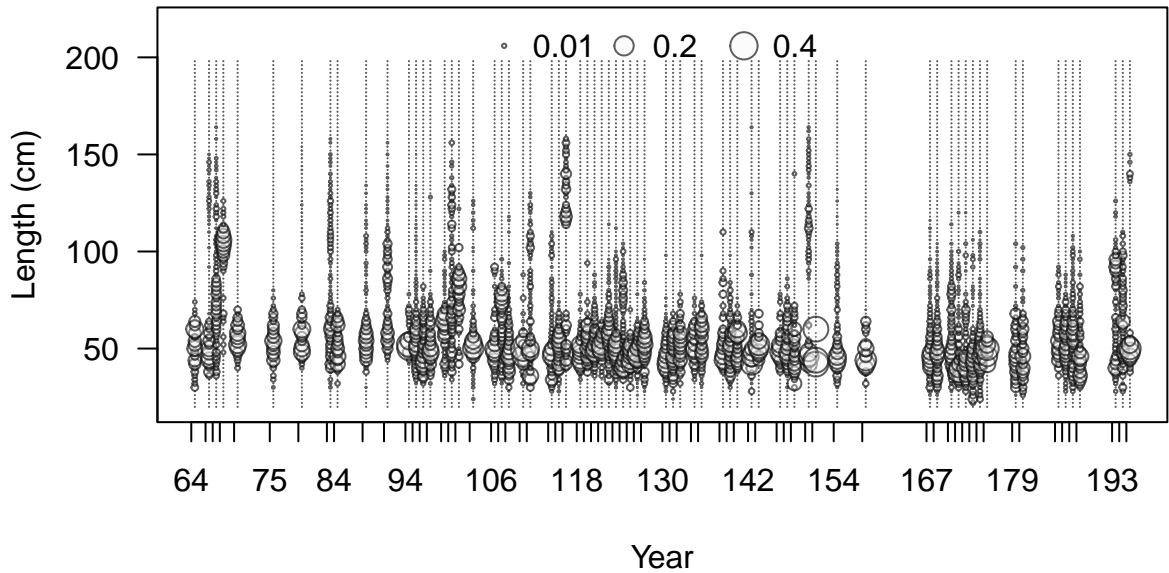


Proportion

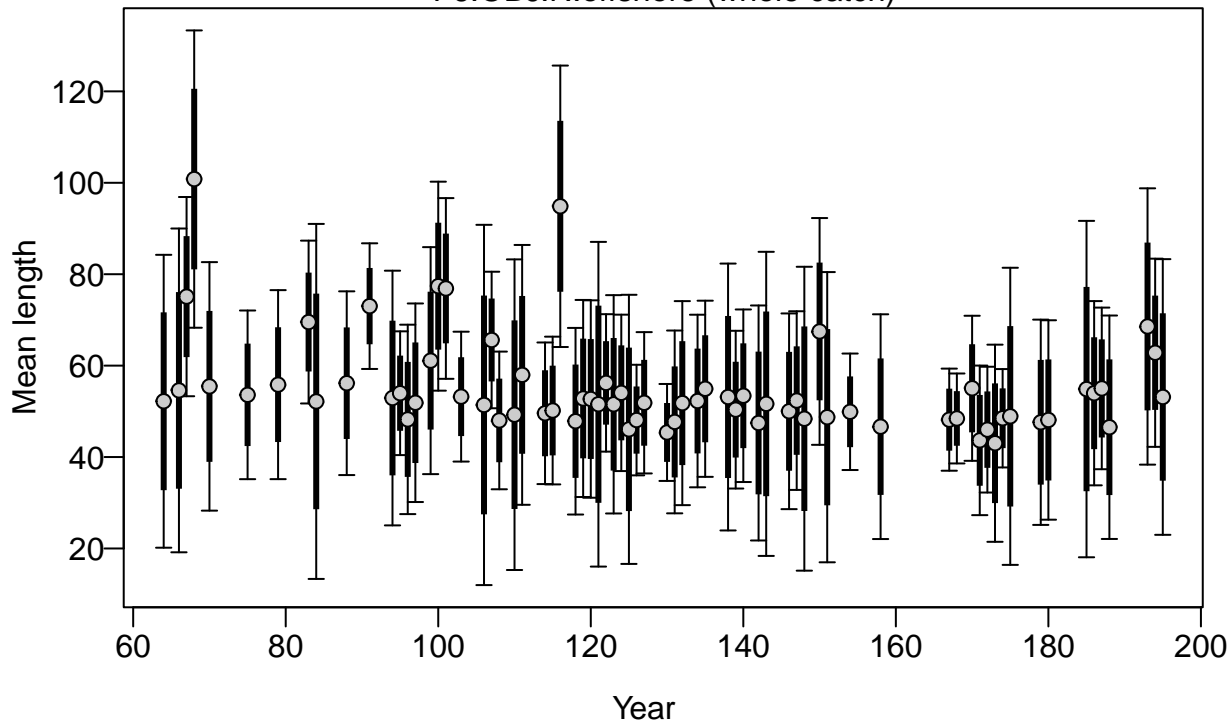


Proportion

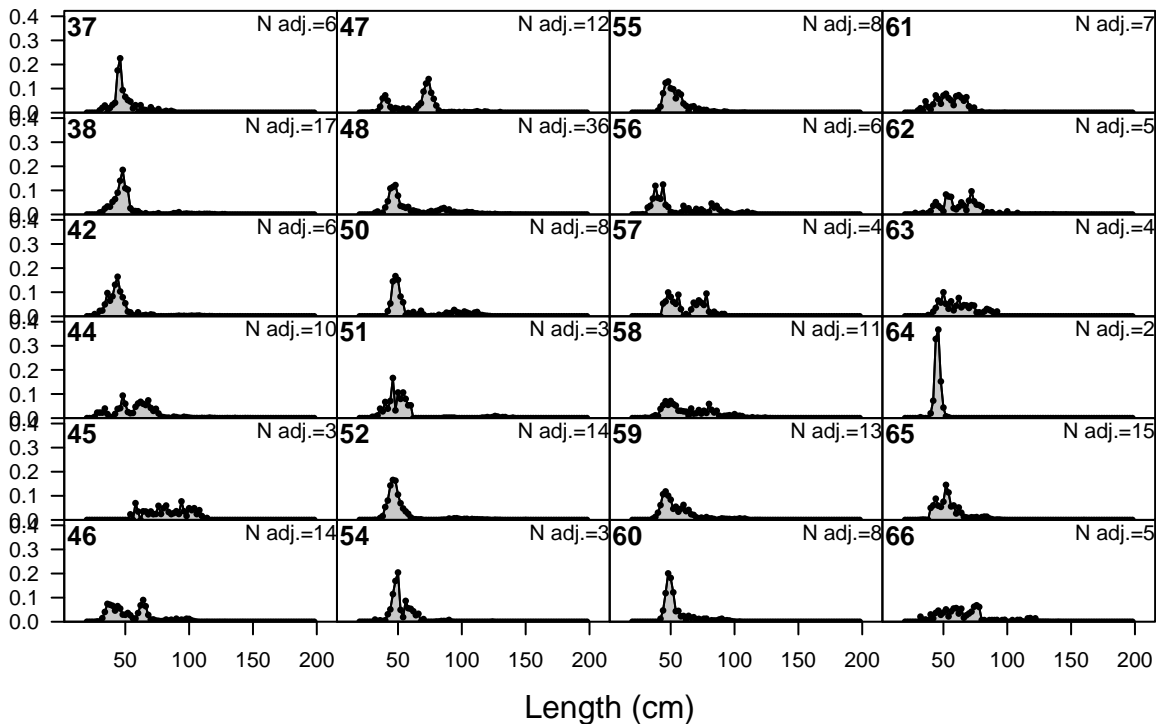




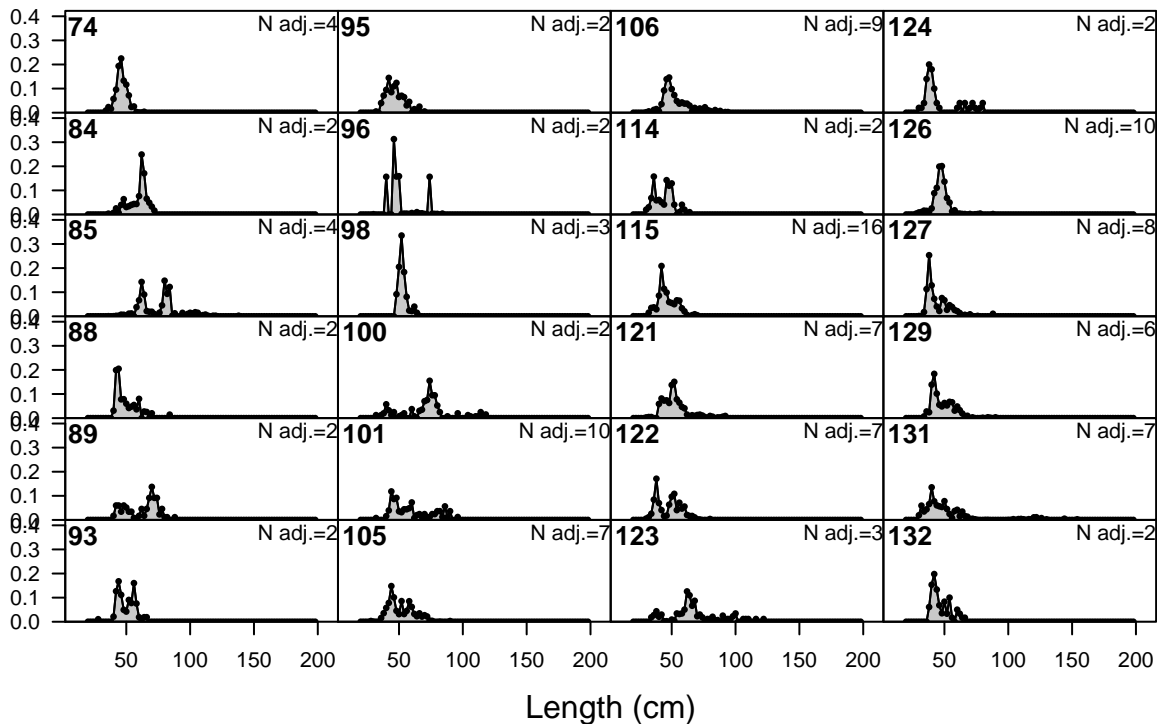
## F6.OBJ.N.offshore (whole catch)



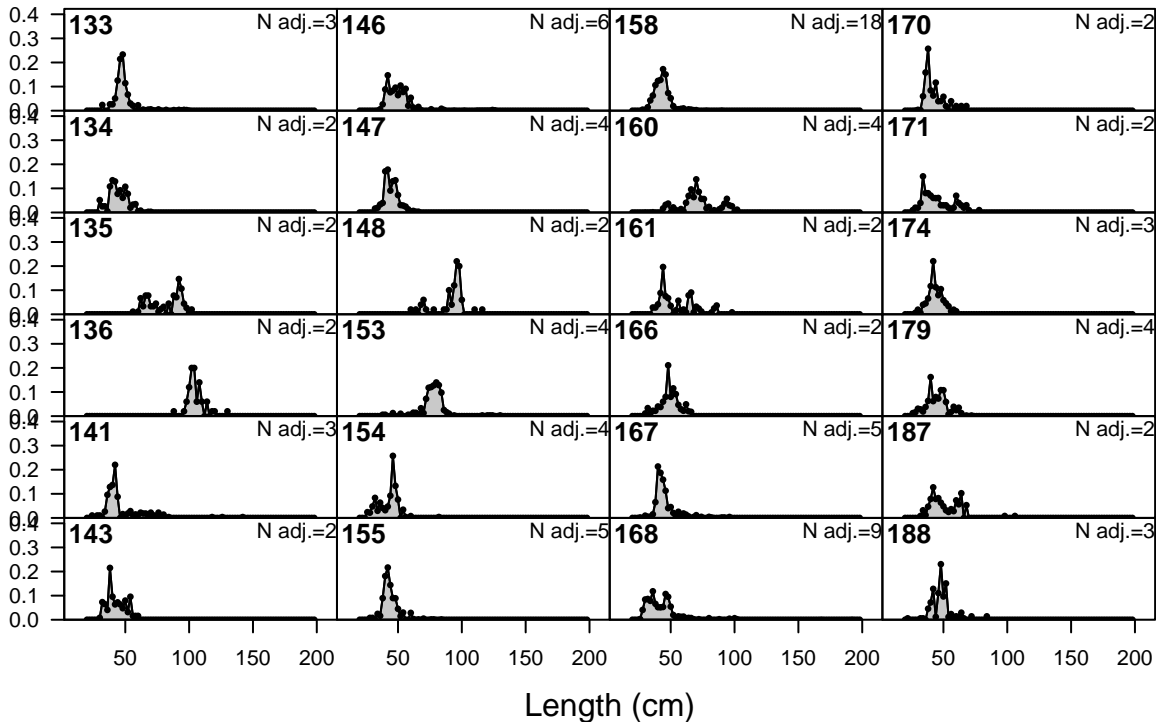
Proportion

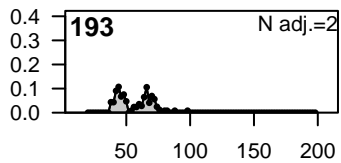


Proportion

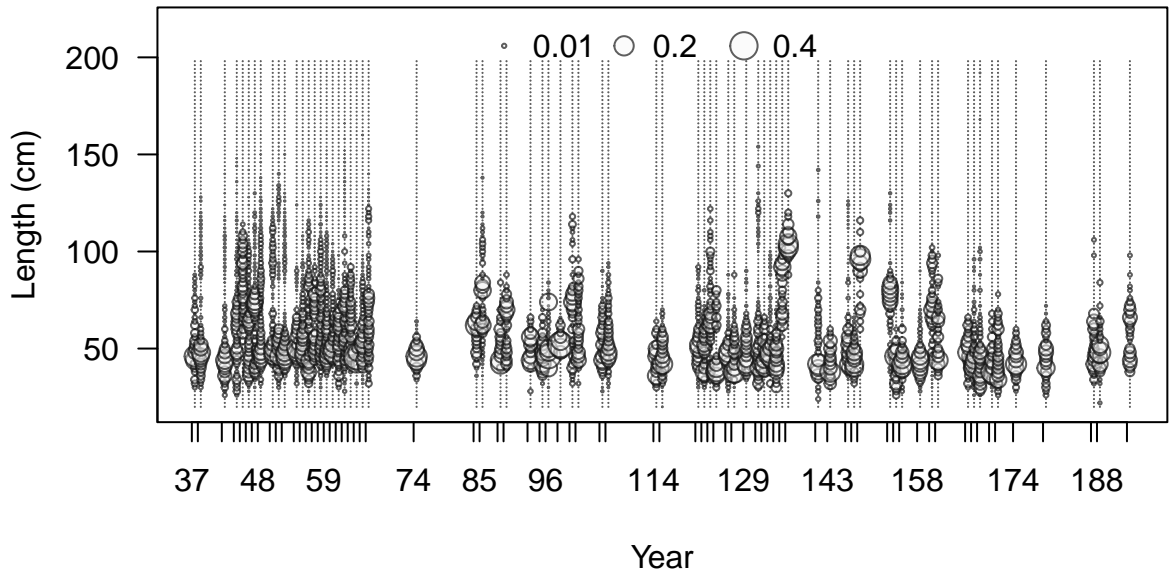


Proportion

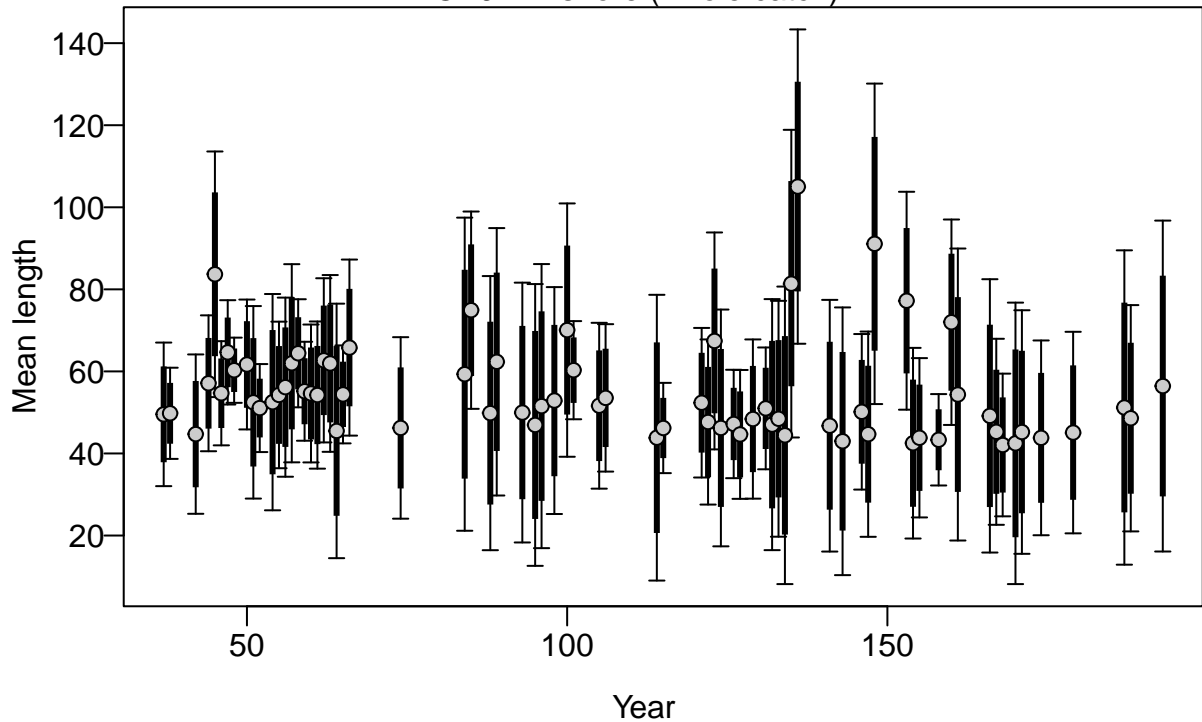




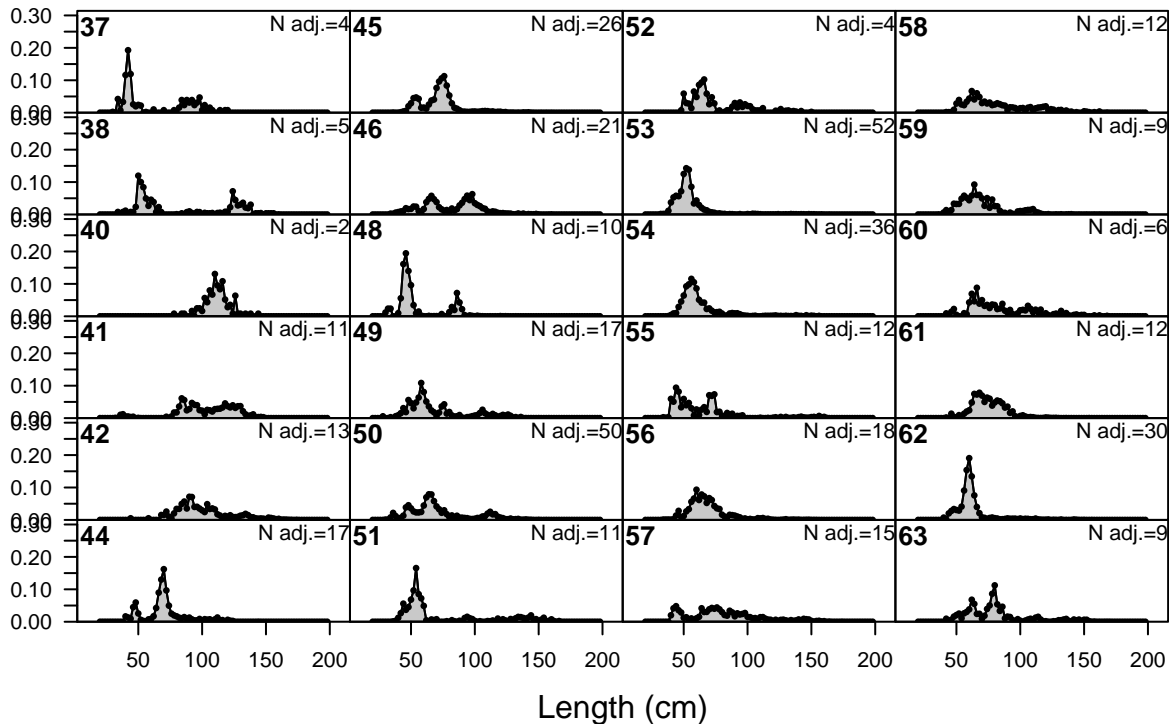




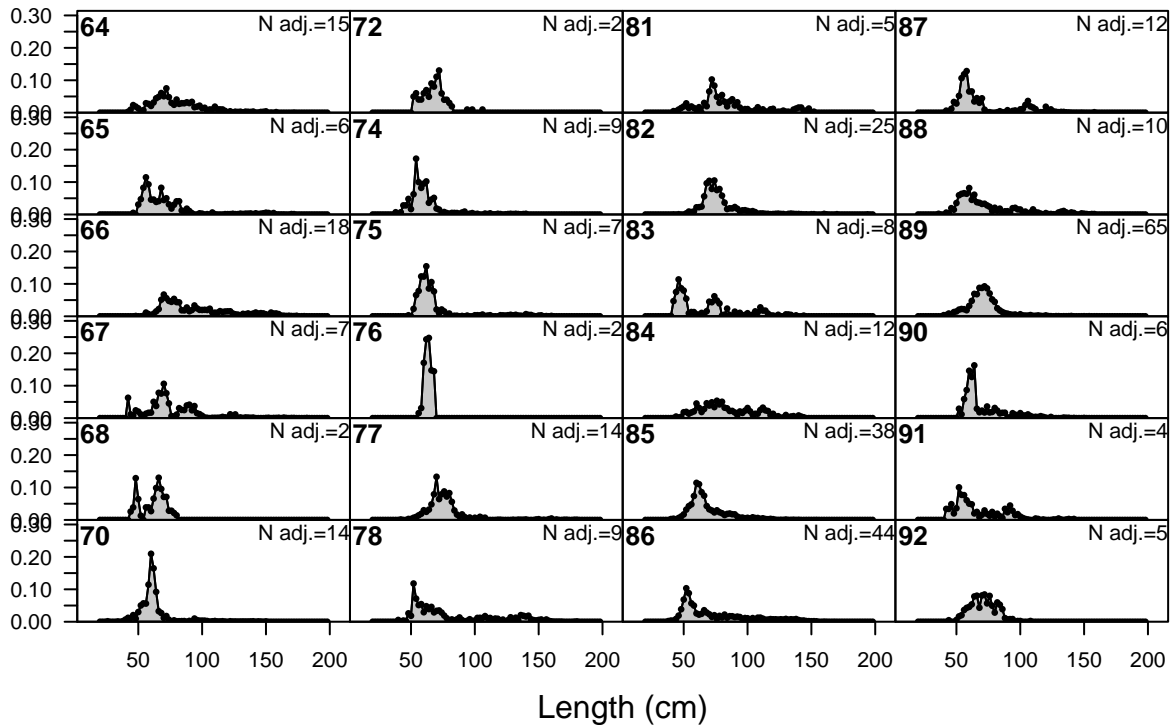
F7.OBJ.N.inshore (whole catch)



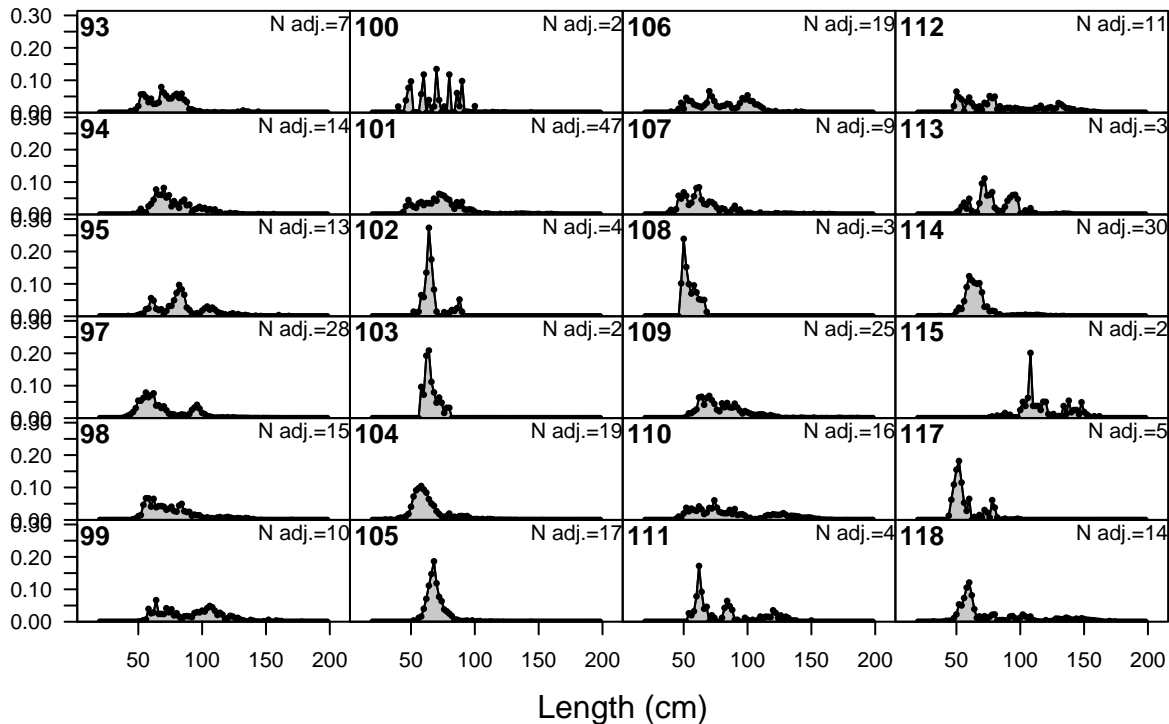
Proportion



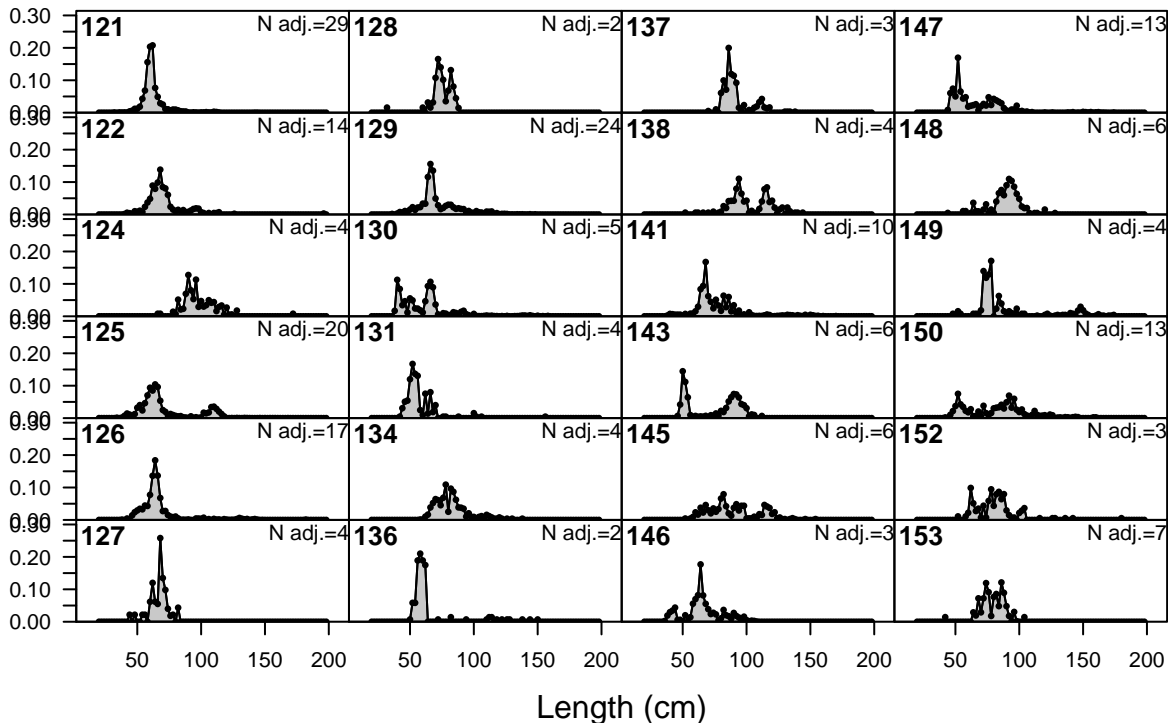
Proportion



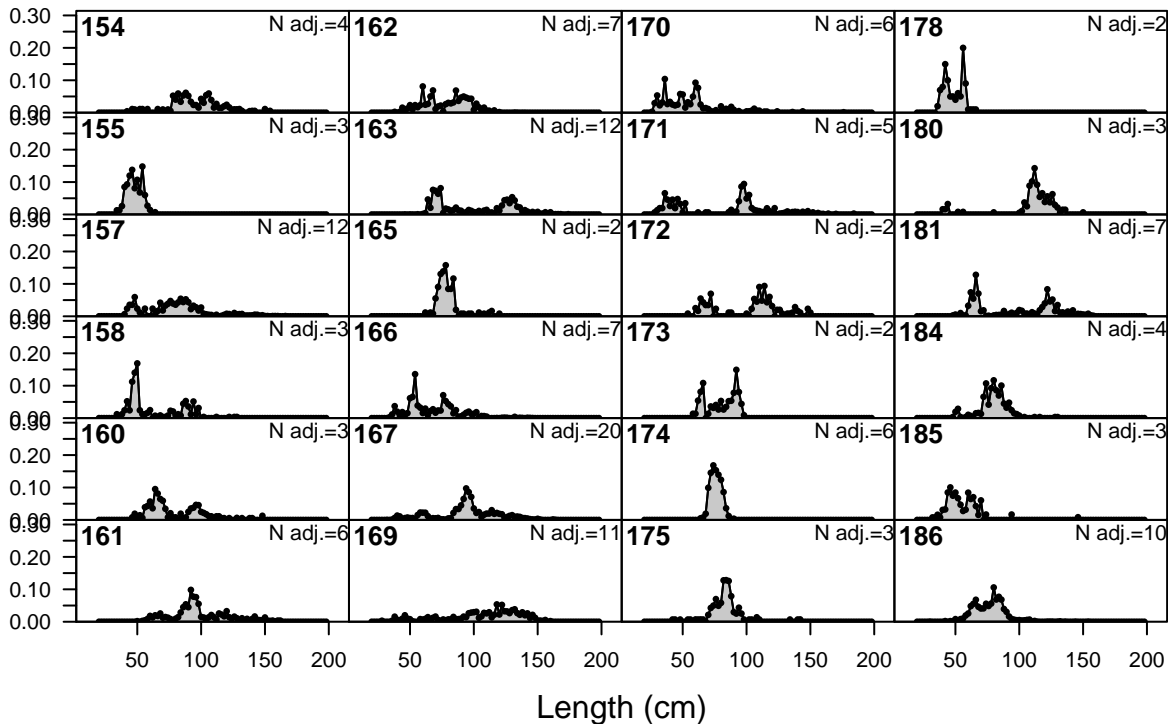
Proportion

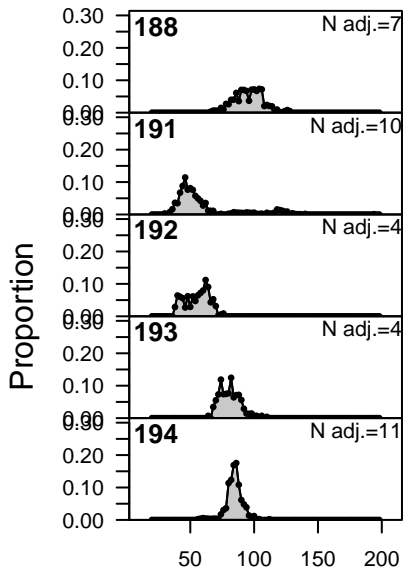


Proportion



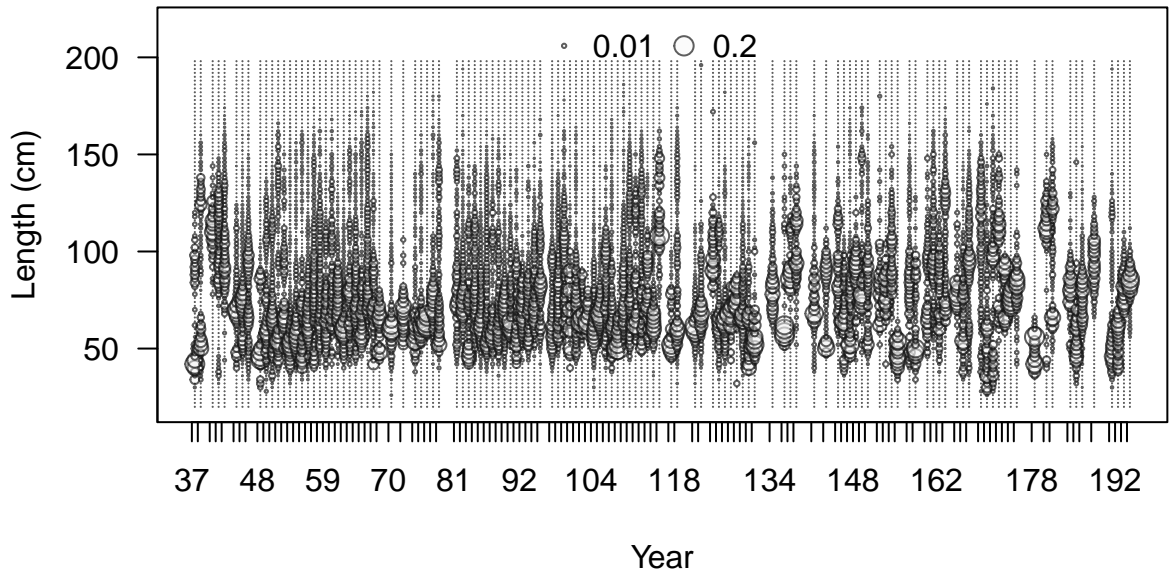
Proportion



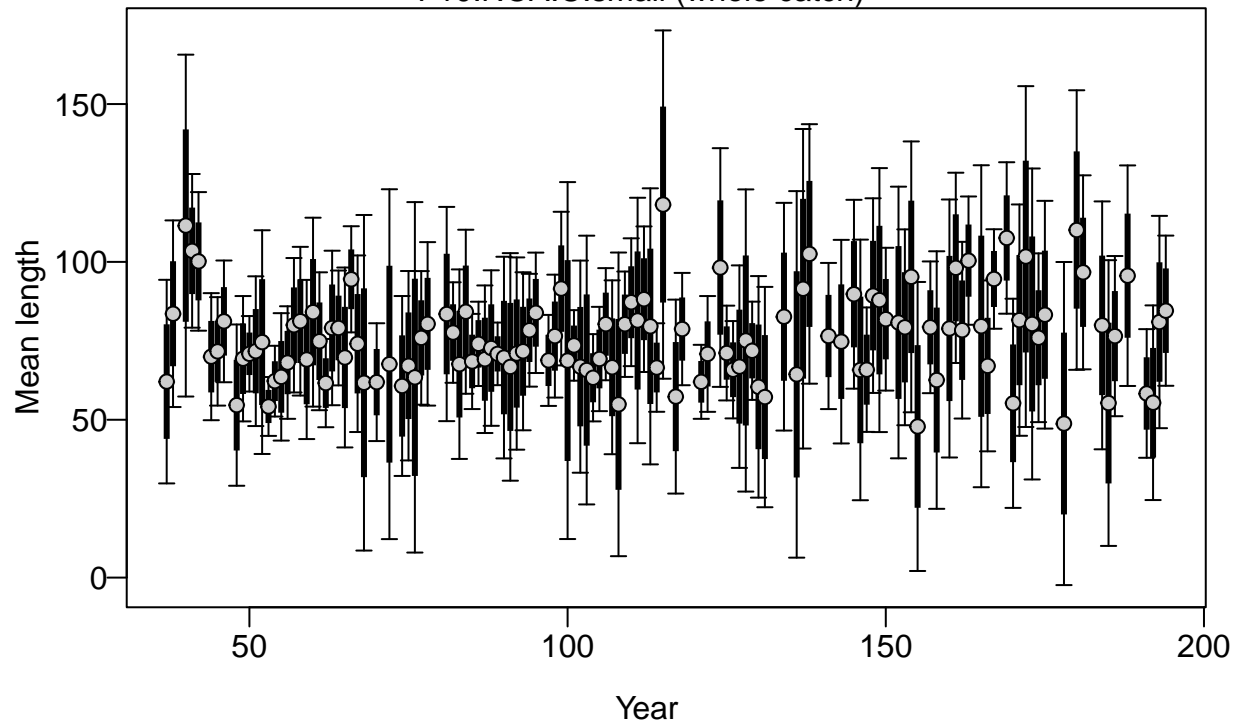


Length (cm)

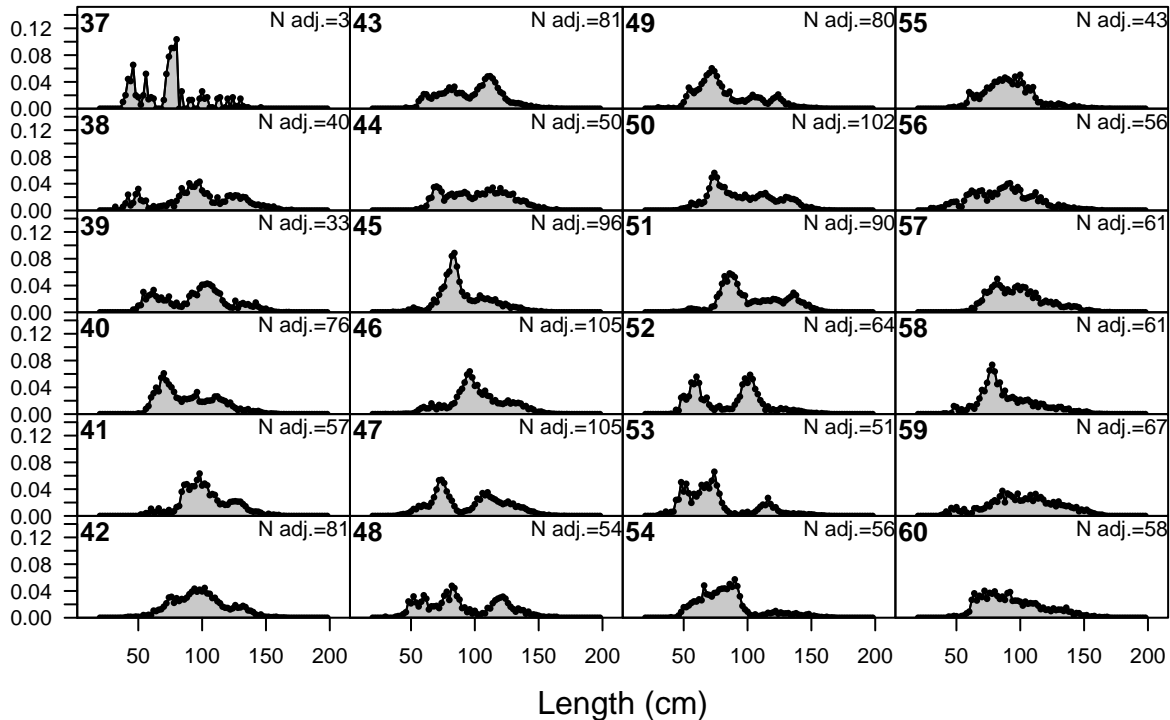




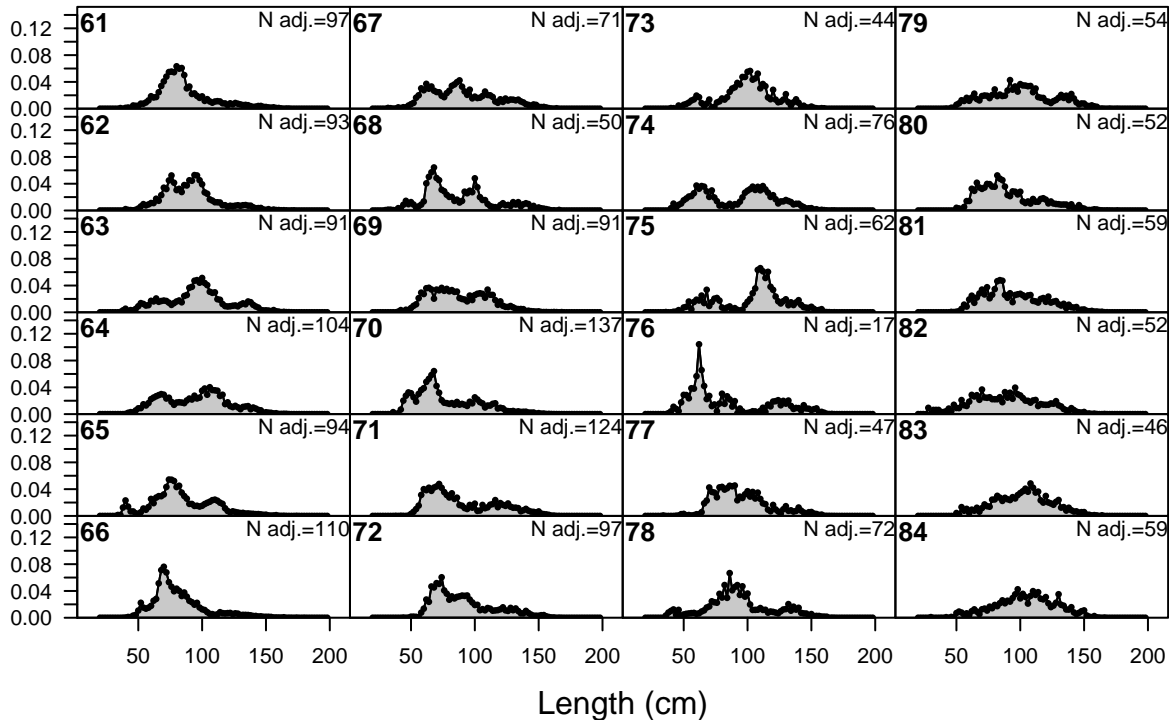
## F10.NOA.C.small (whole catch)



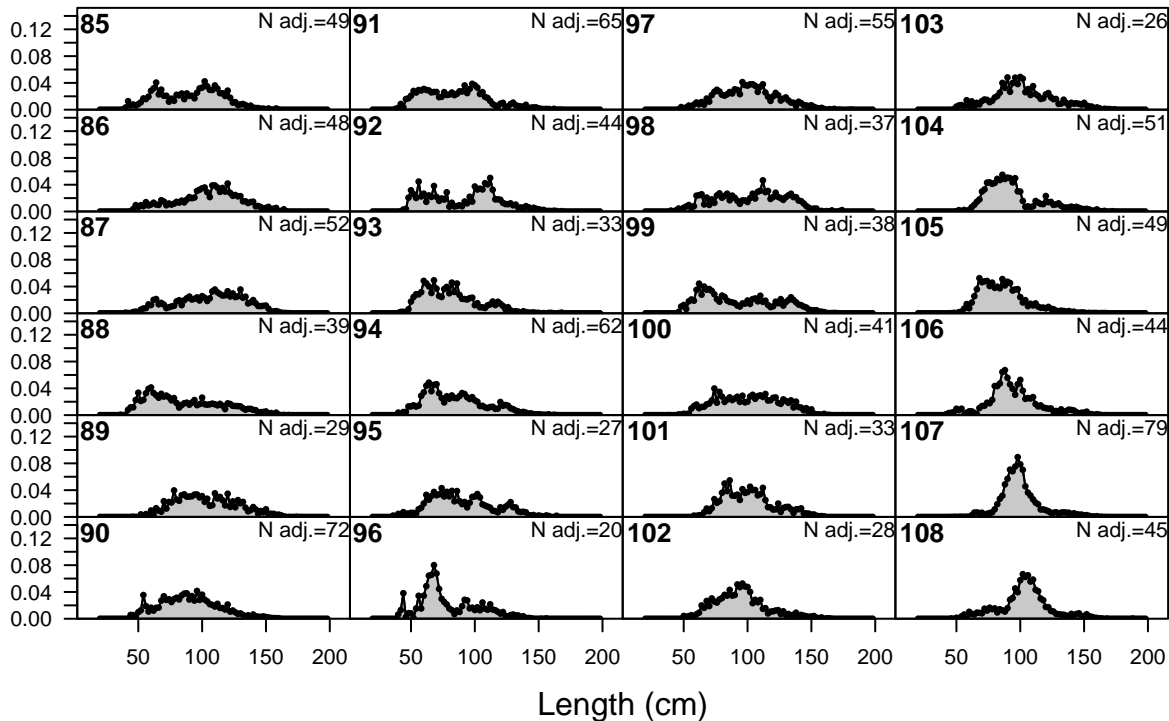
Proportion



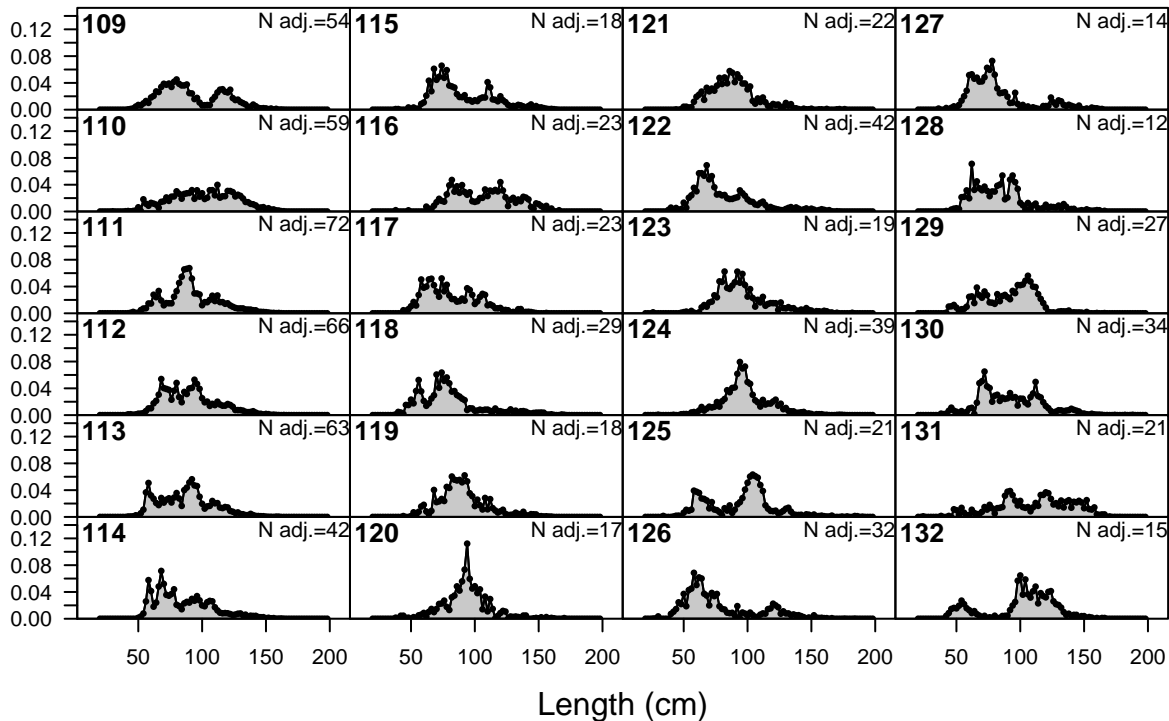
Proportion



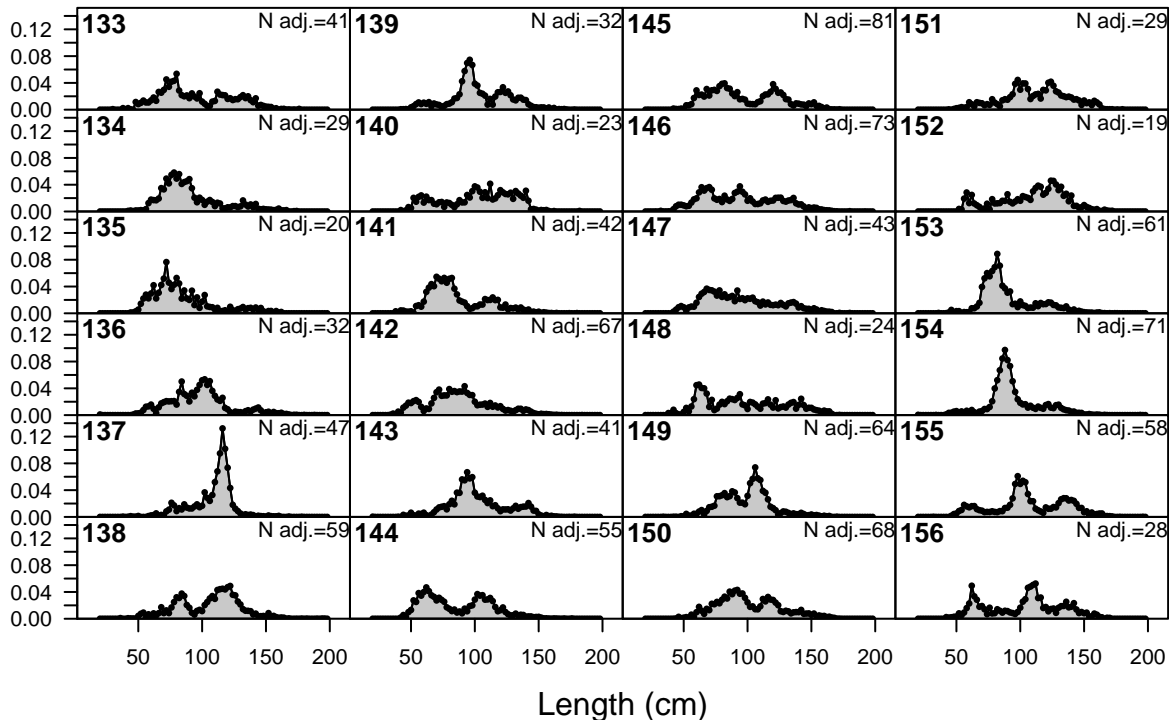
Proportion



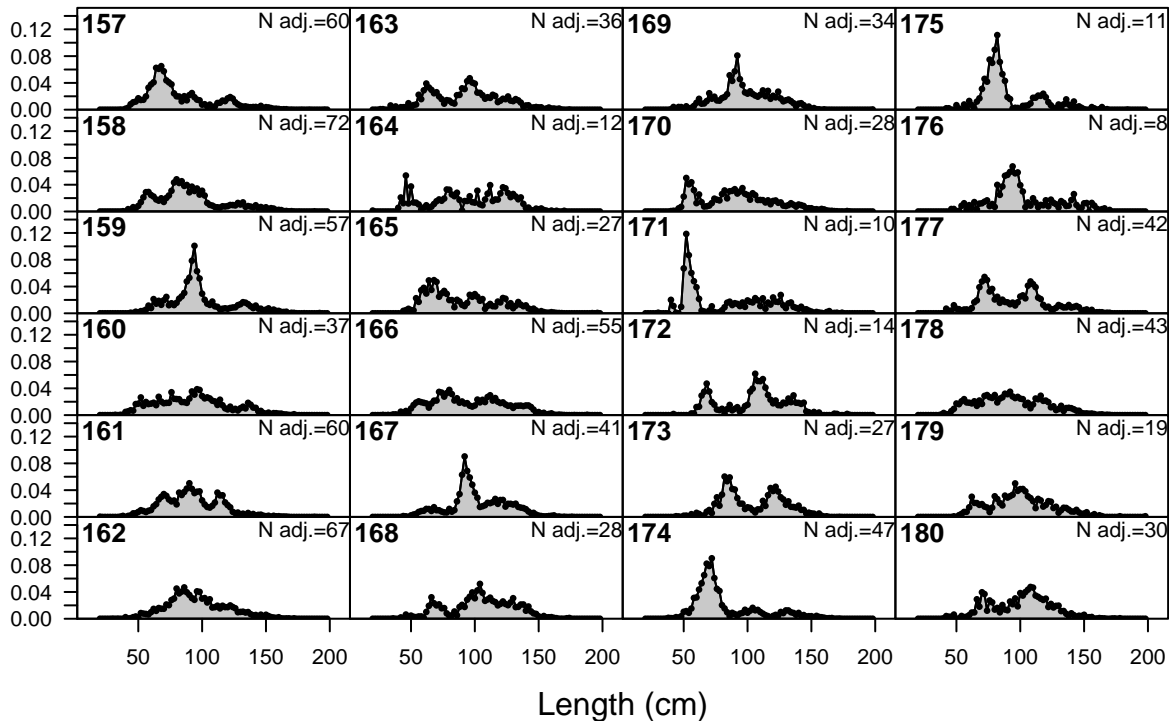
Proportion



Proportion

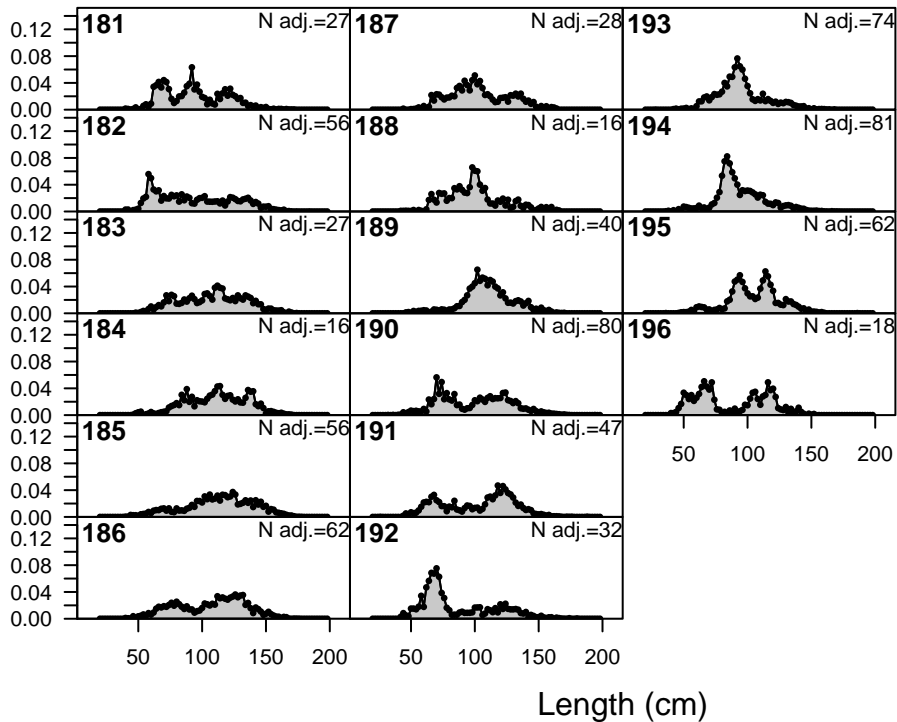


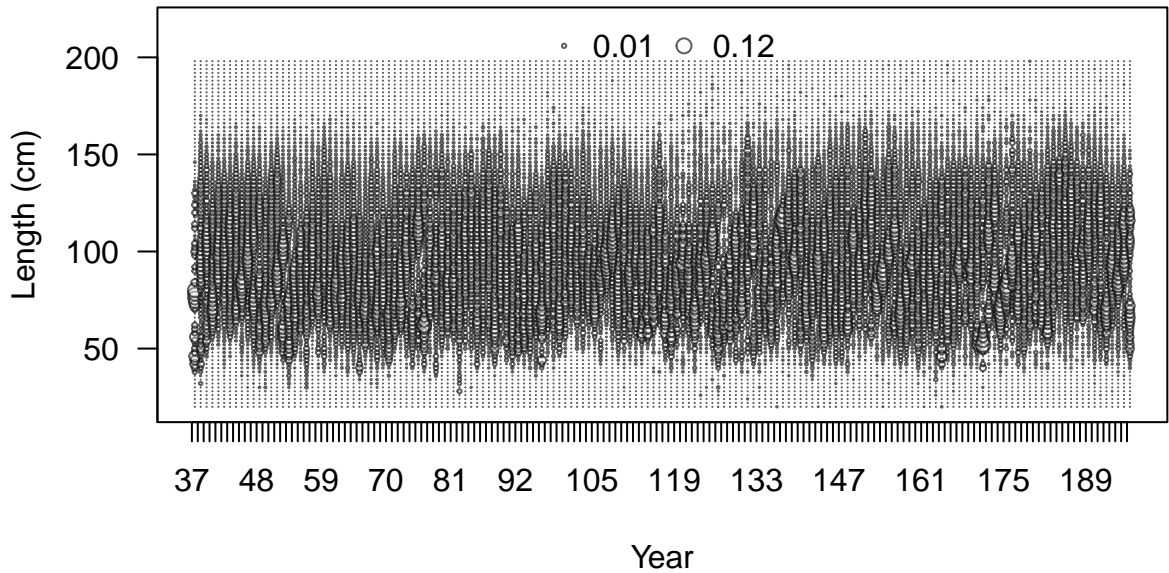
Proportion



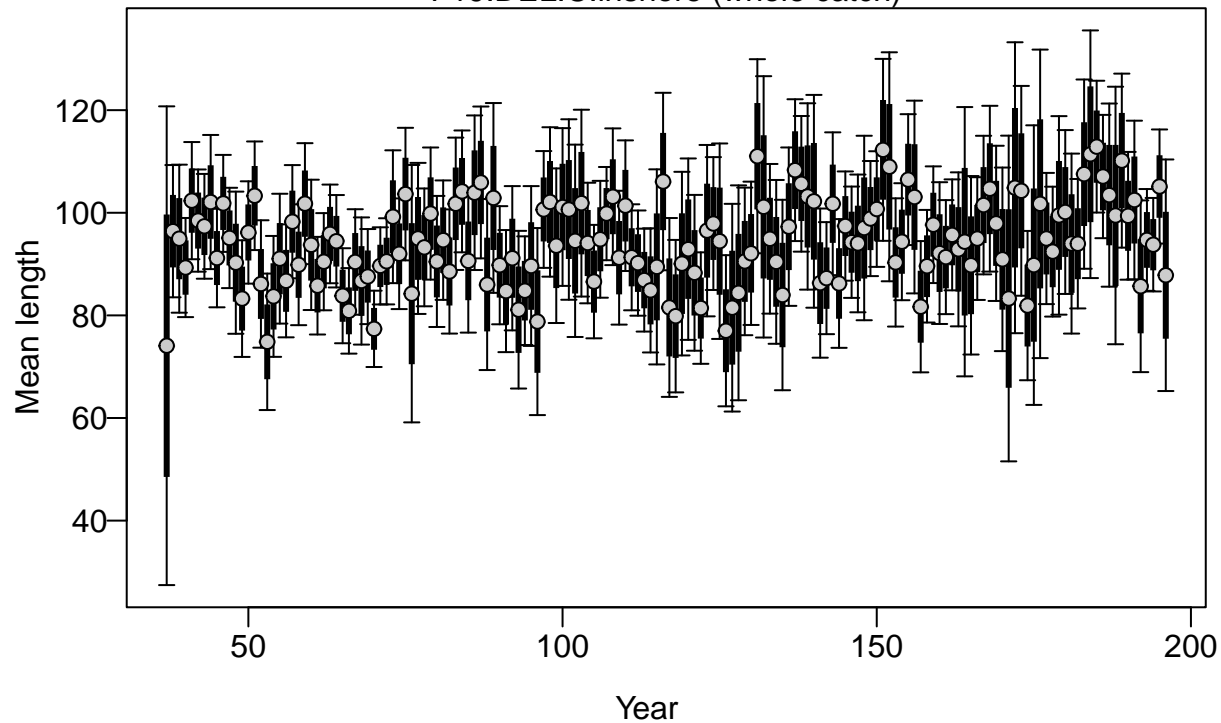


Proportion

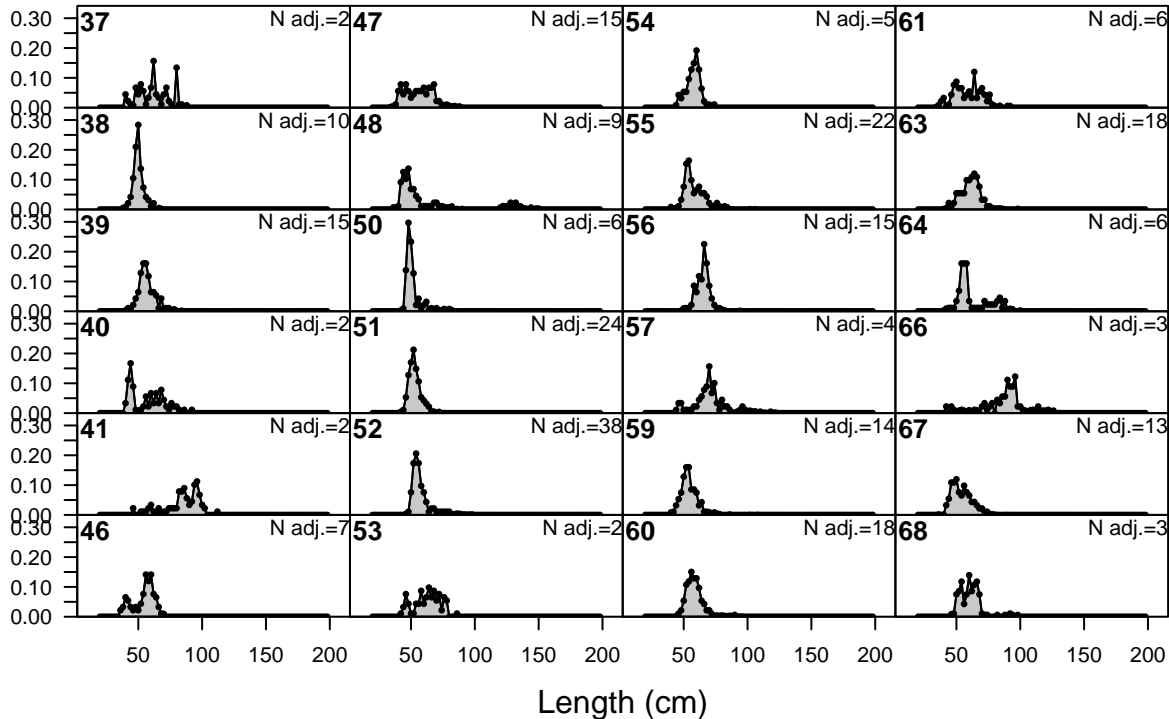




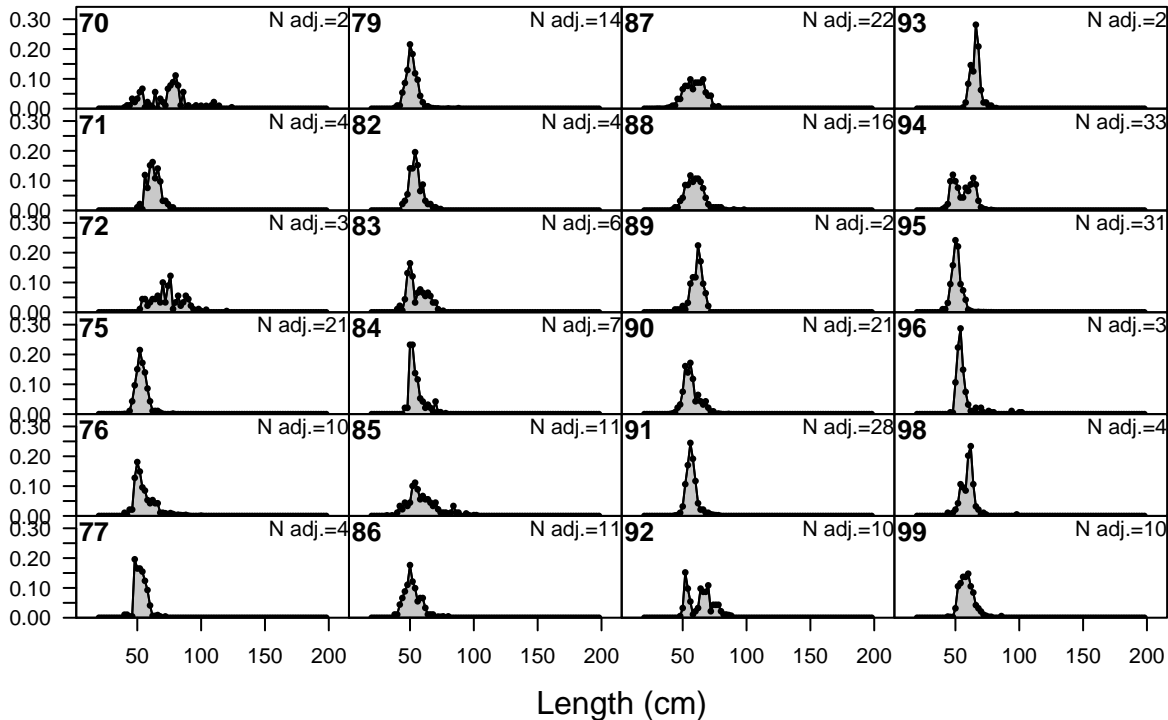
# F19.DEL.C.inshore (whole catch)

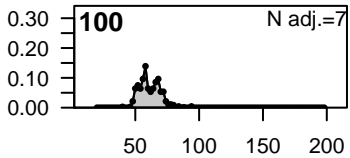


Proportion



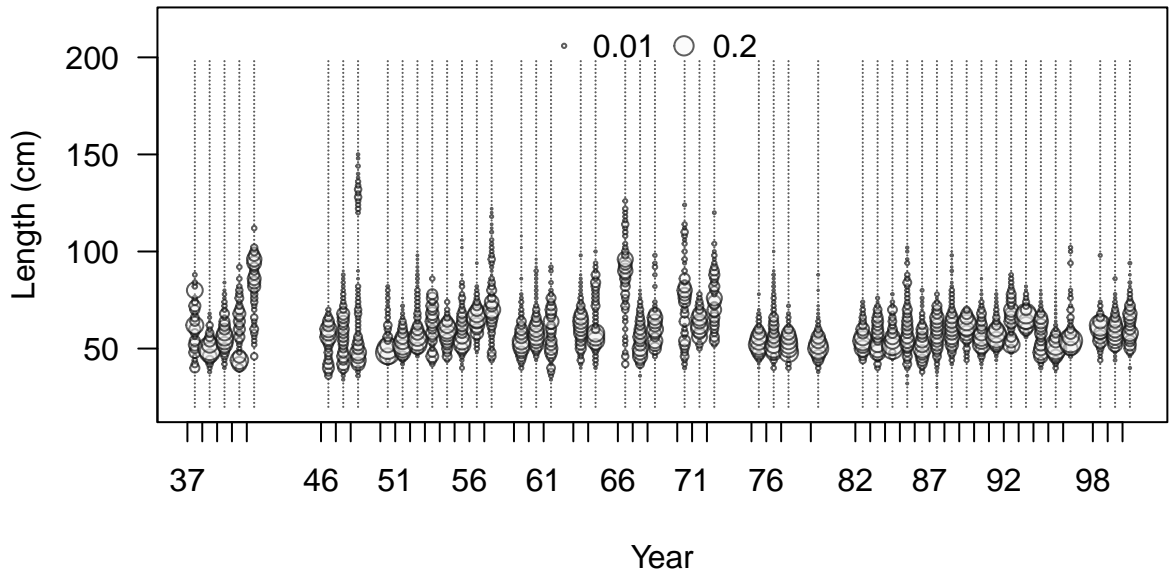
Proportion



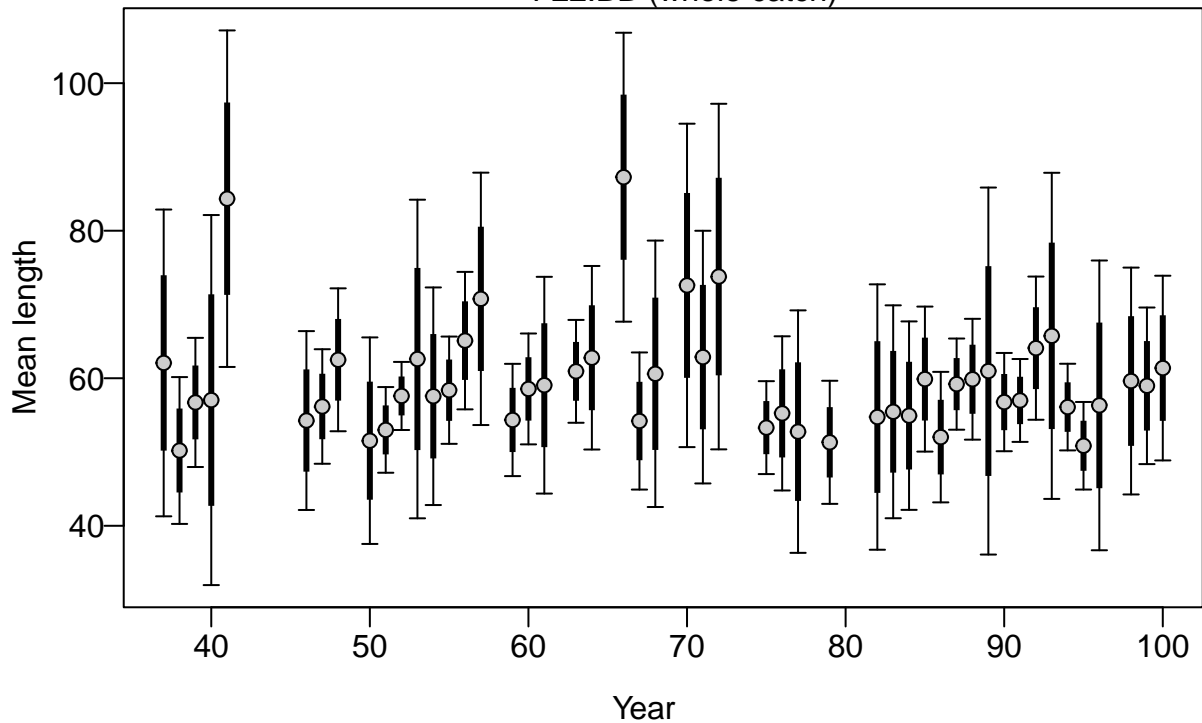


Proportion

Length (cm)



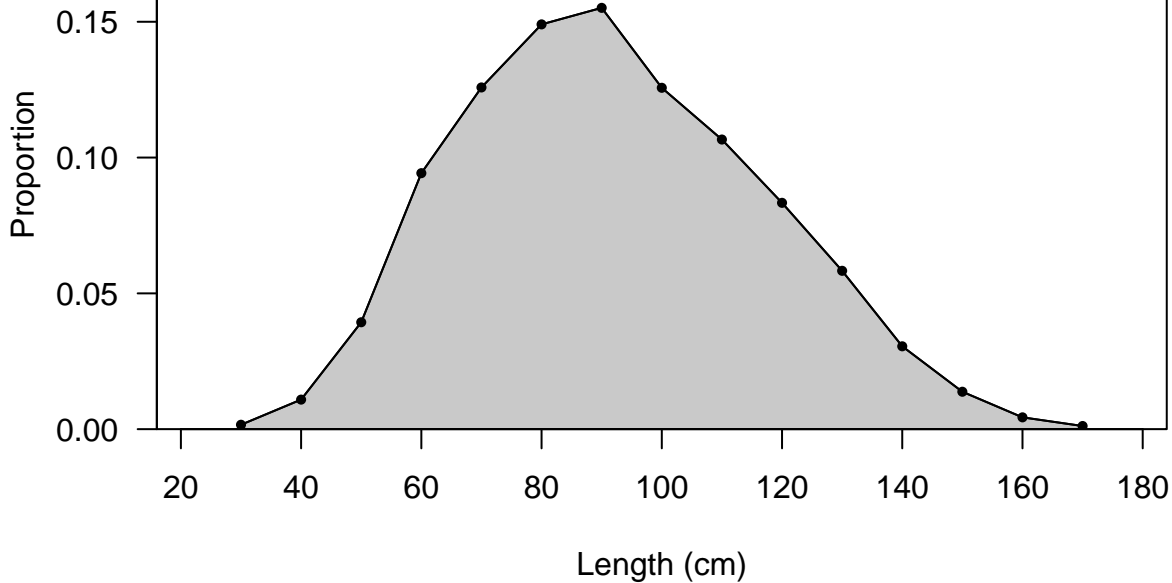
## F22.BB (whole catch)



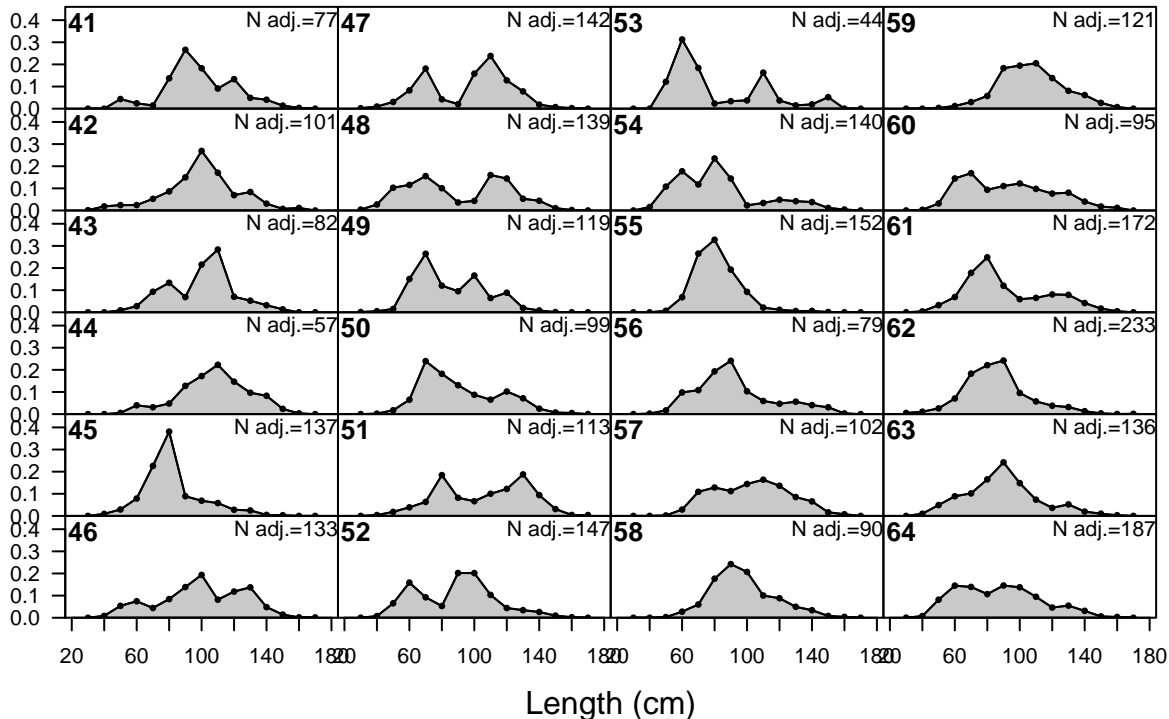


**S1.PS\_VAST**

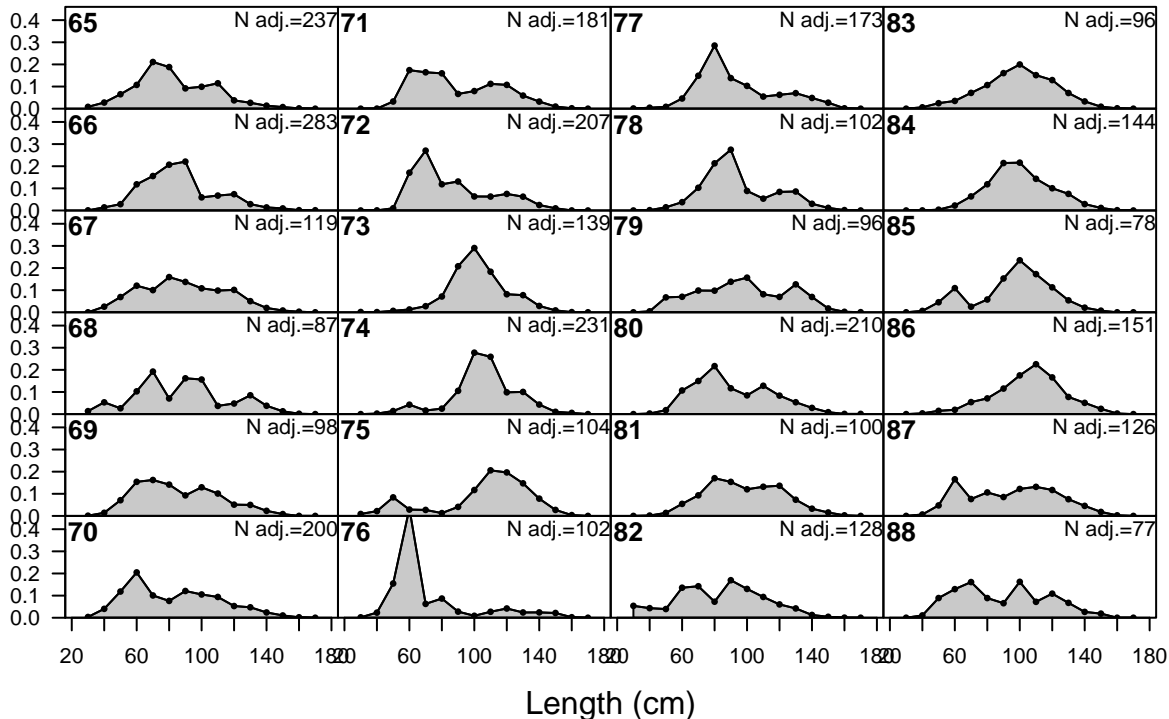
Sum of N adj.=18861



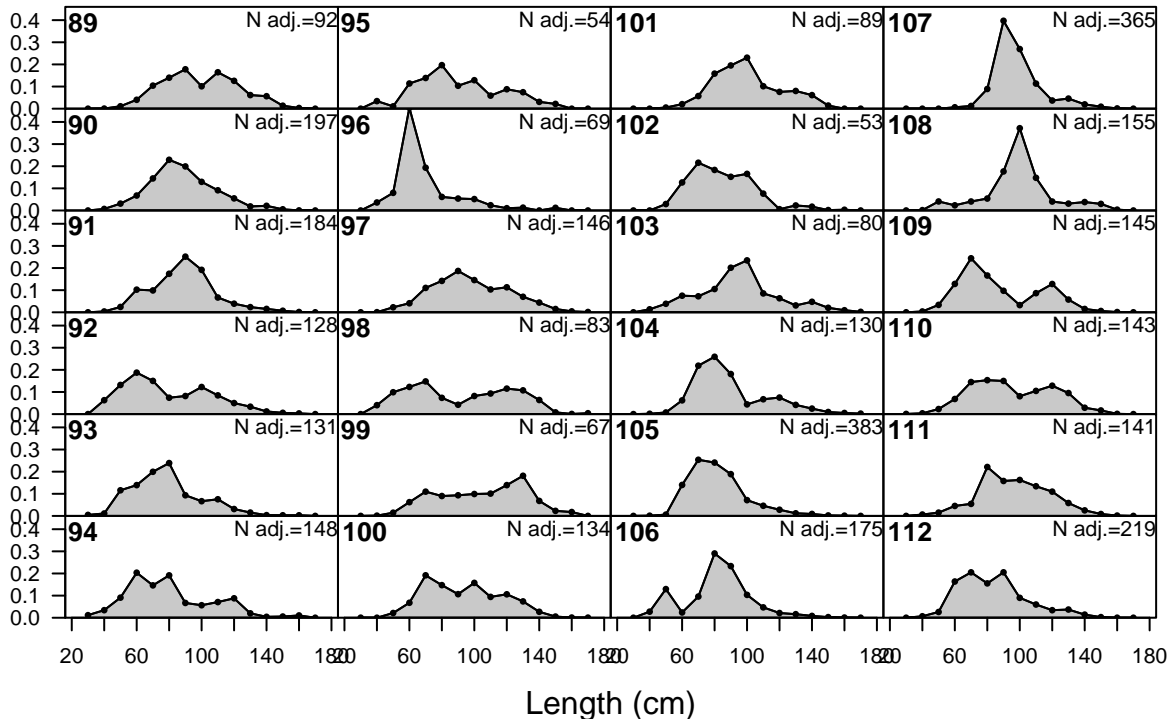
Proportion



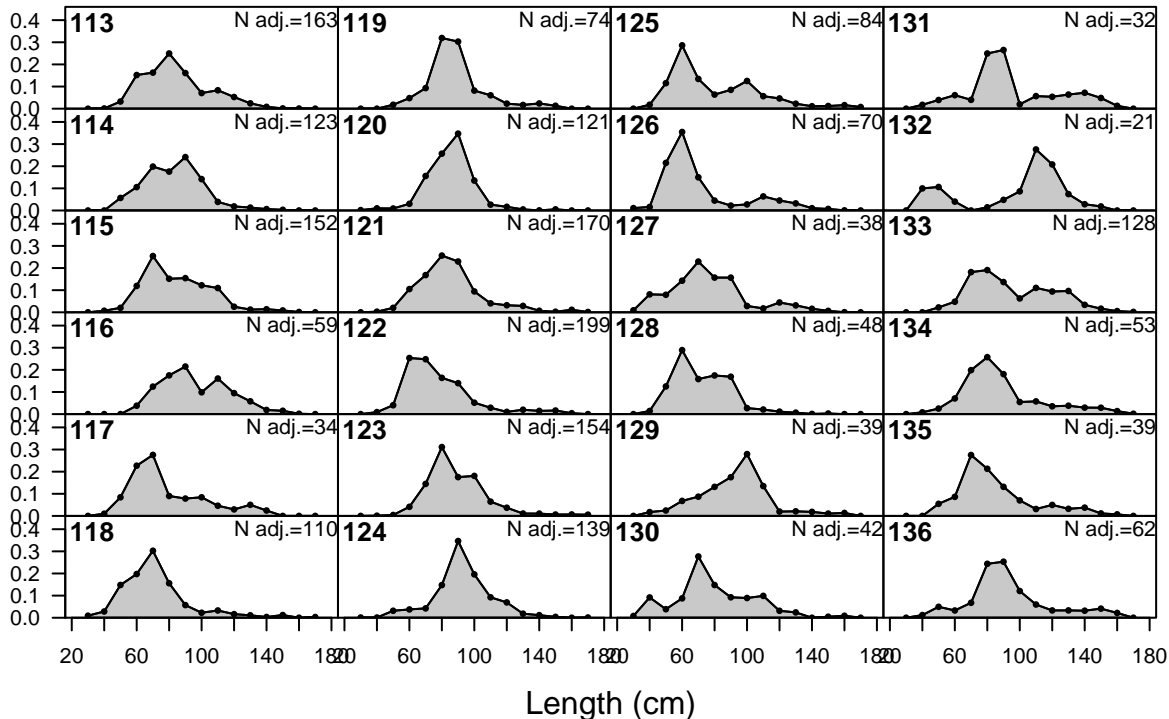
Proportion



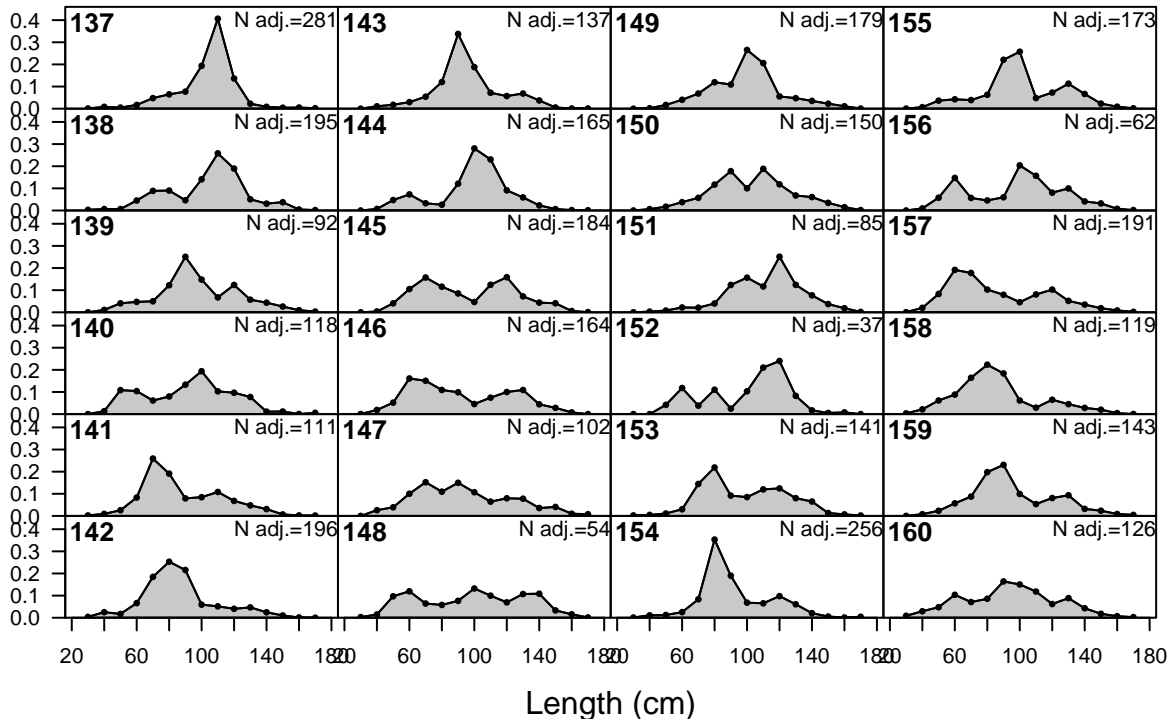
Proportion



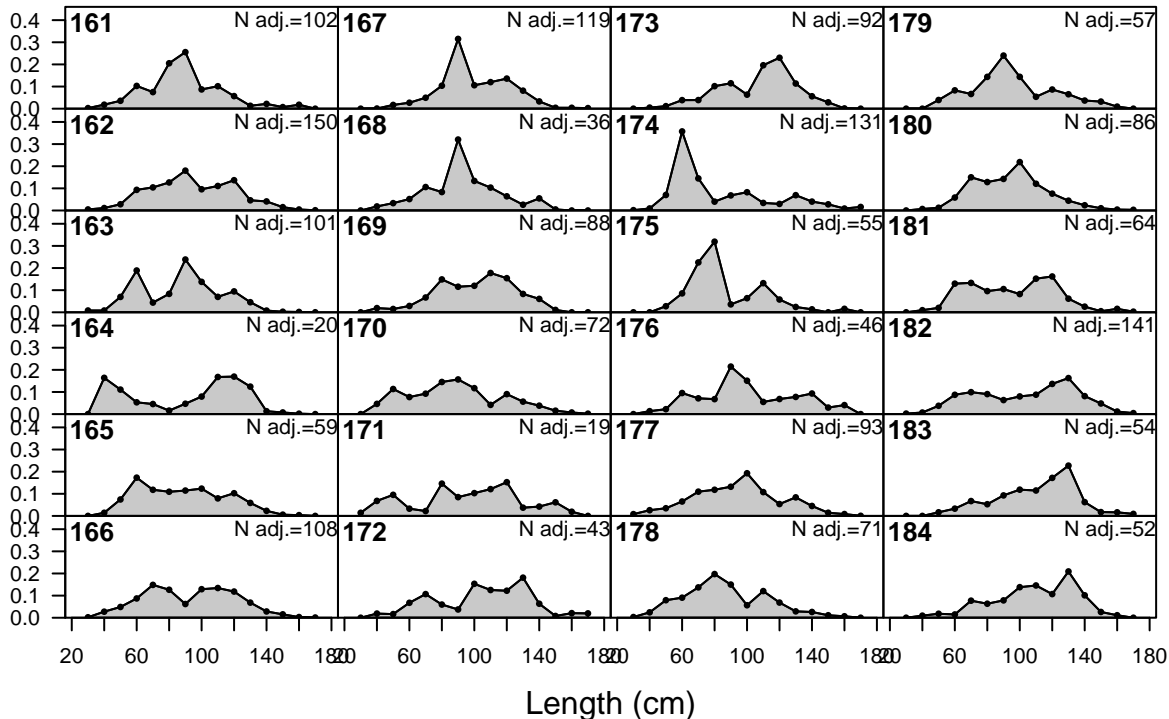
Proportion



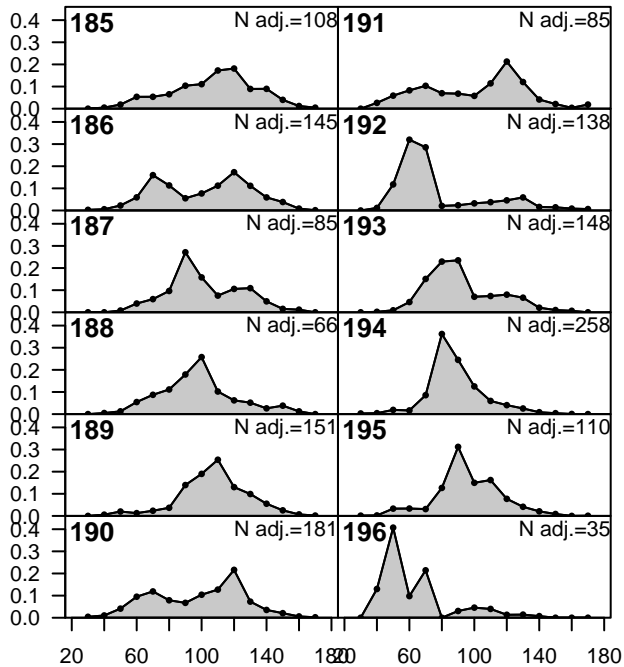
Proportion



Proportion

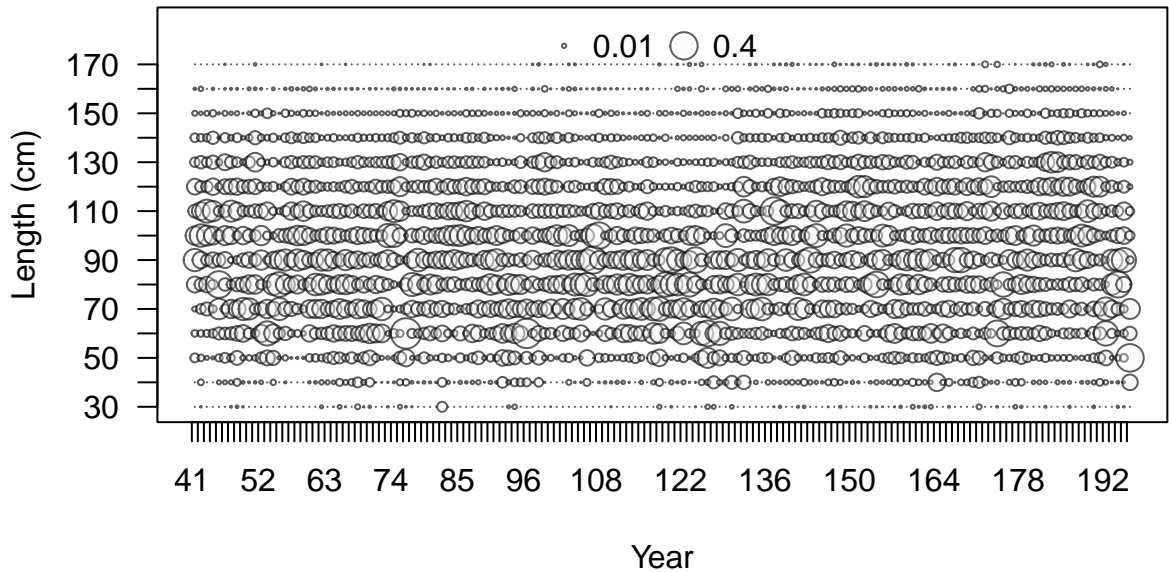


Proportion

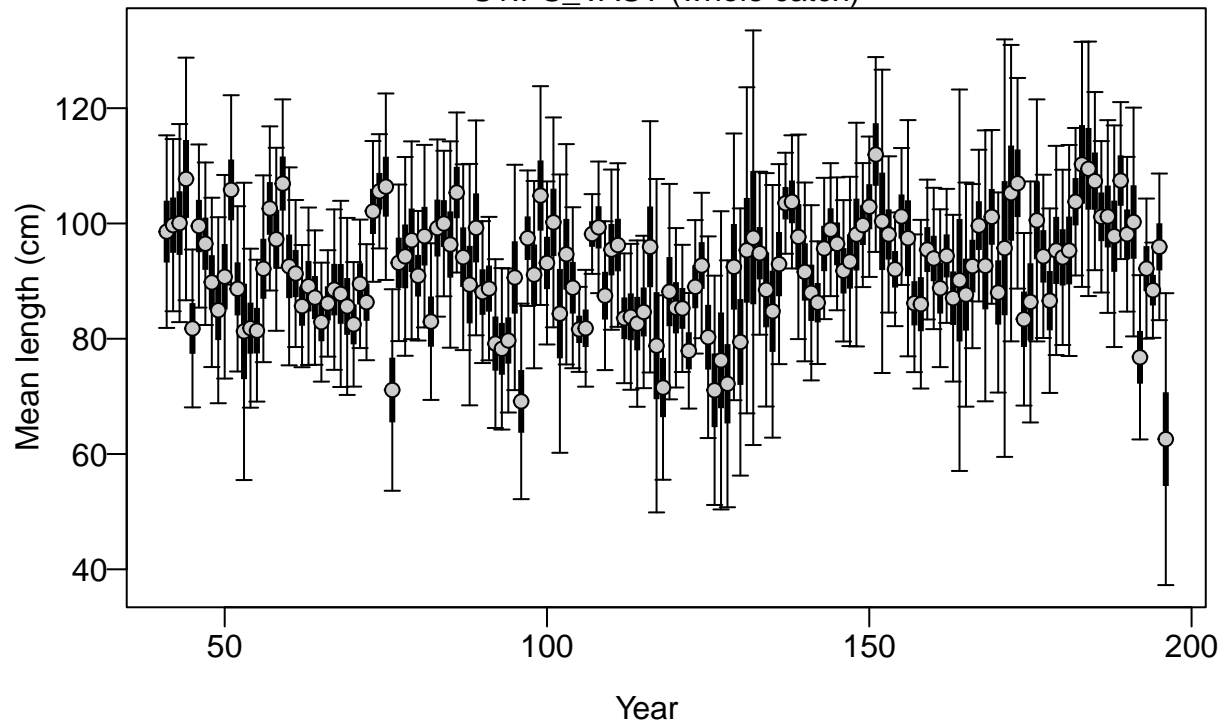


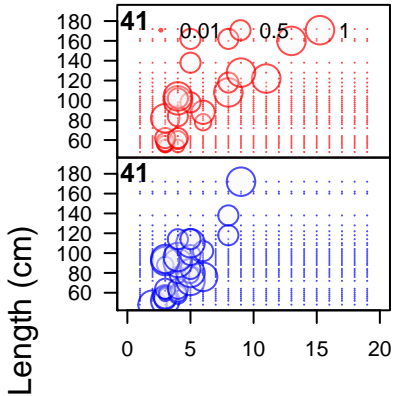
Length (cm)

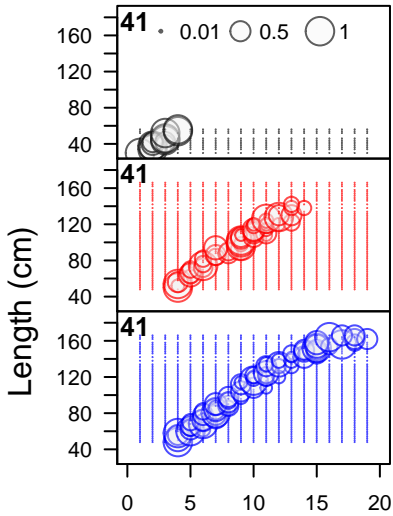




## S1.PS\_VAST (whole catch)

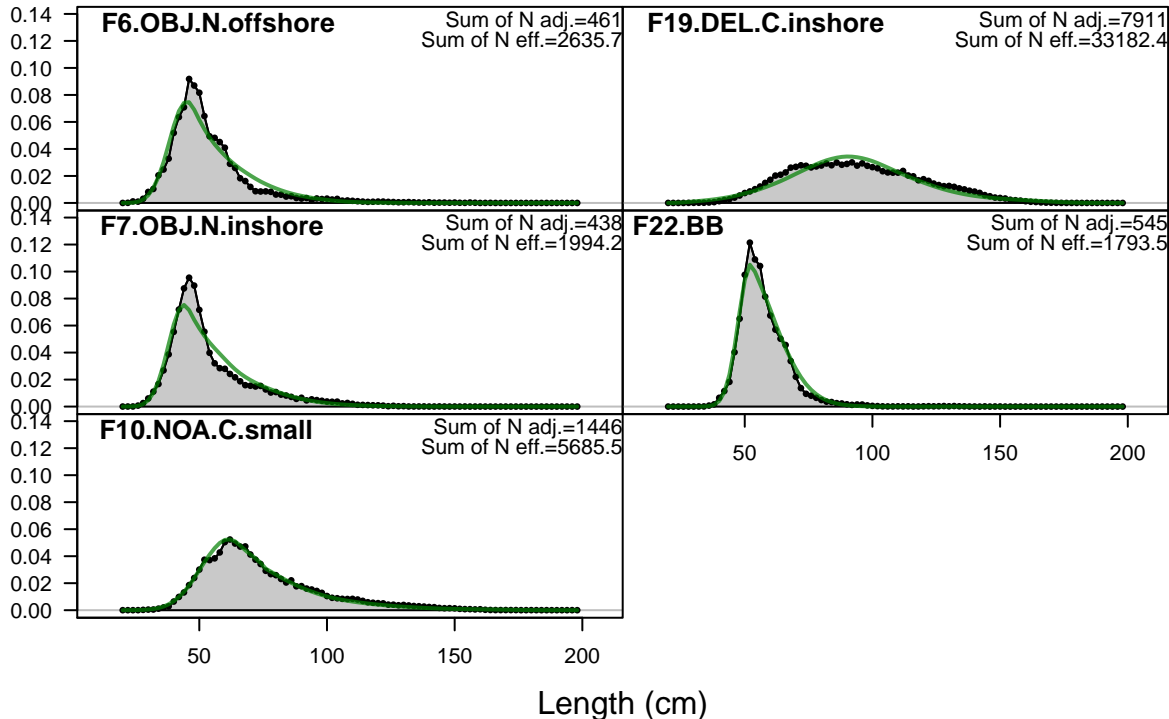


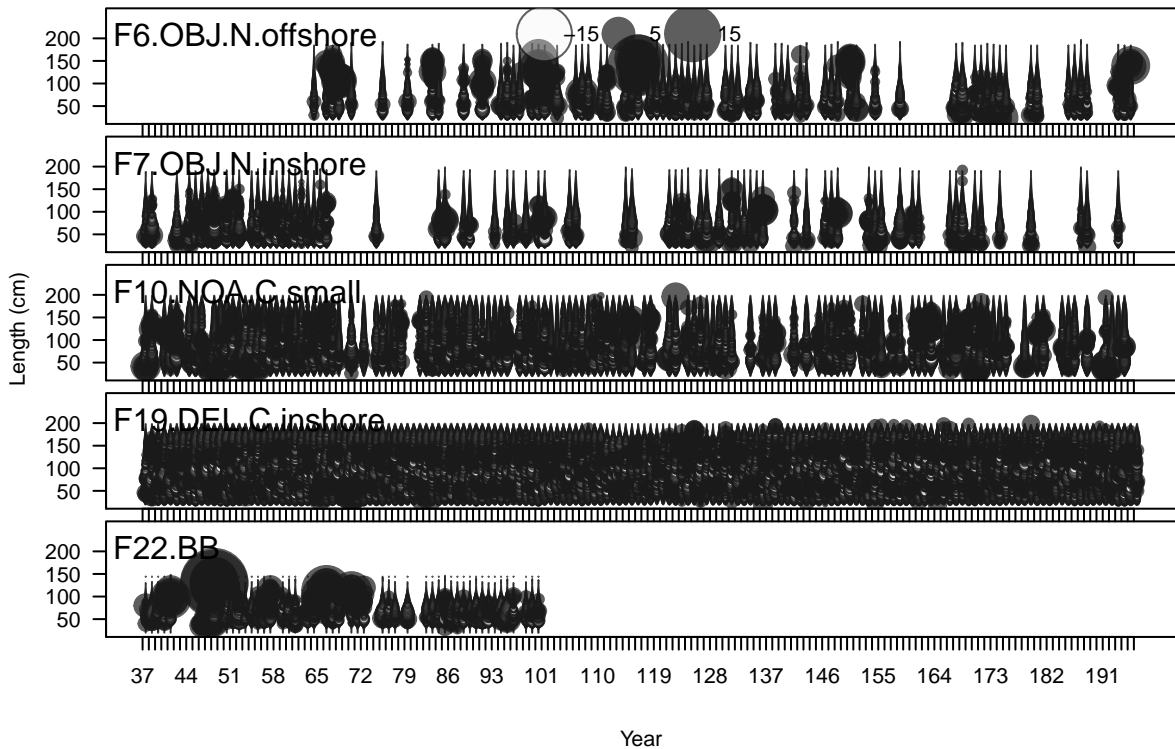




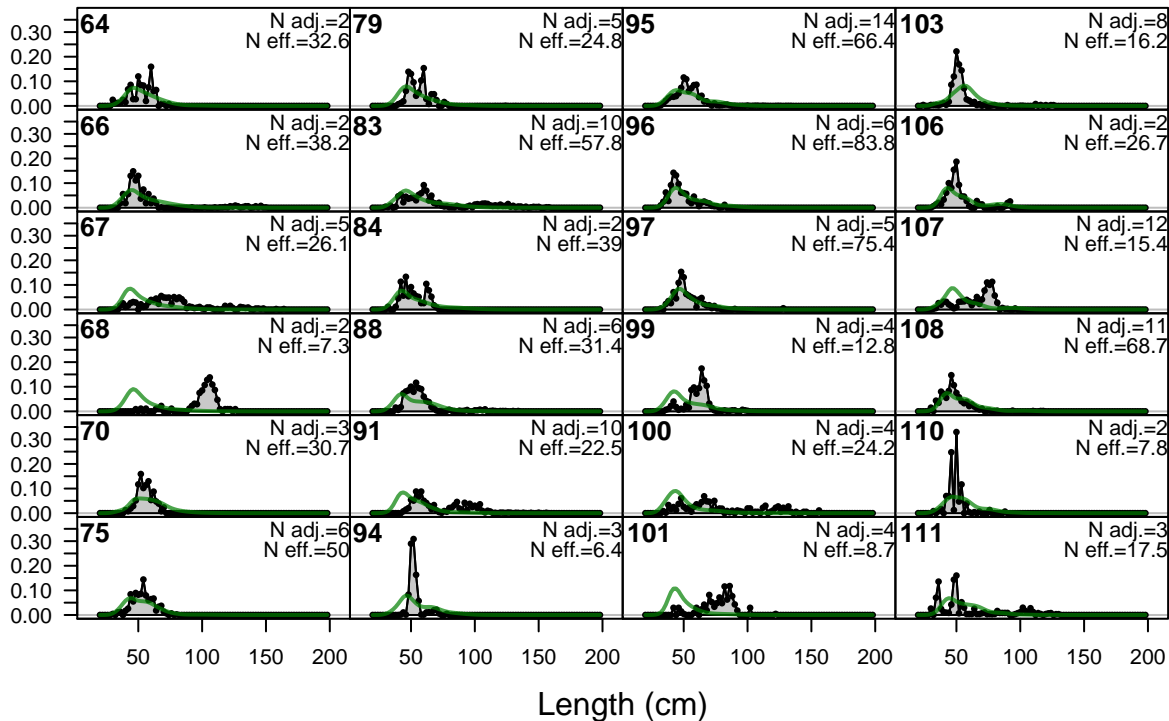
Age (yr)

Proportion

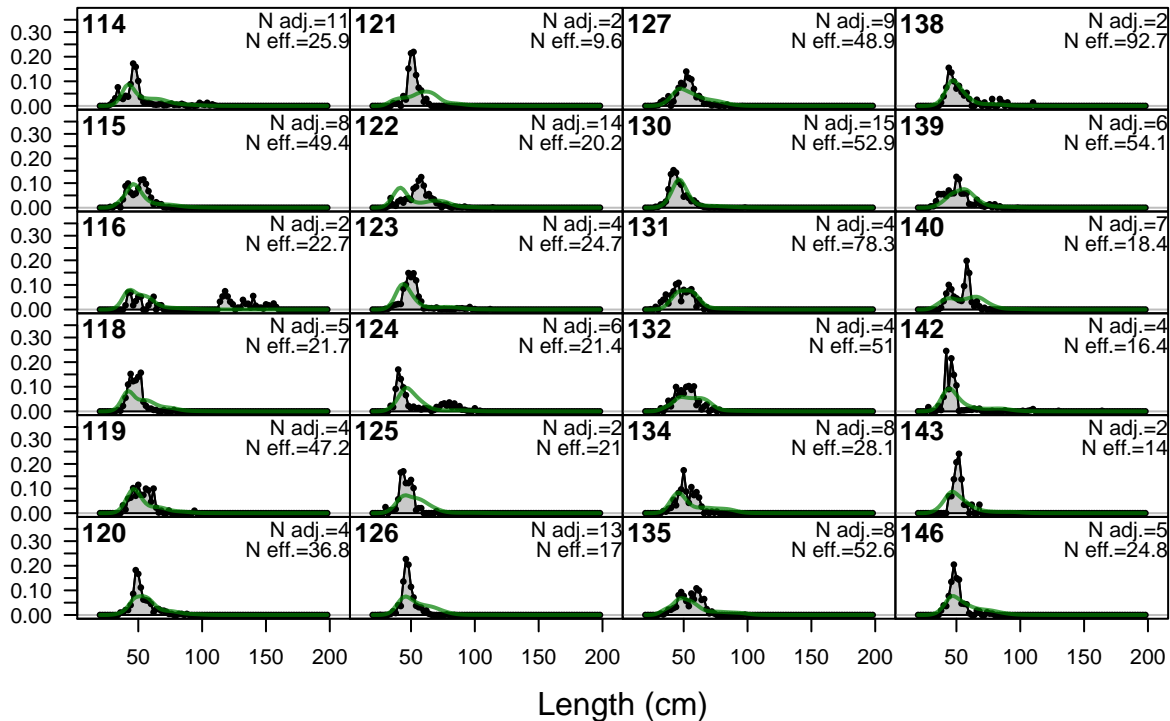




Proportion

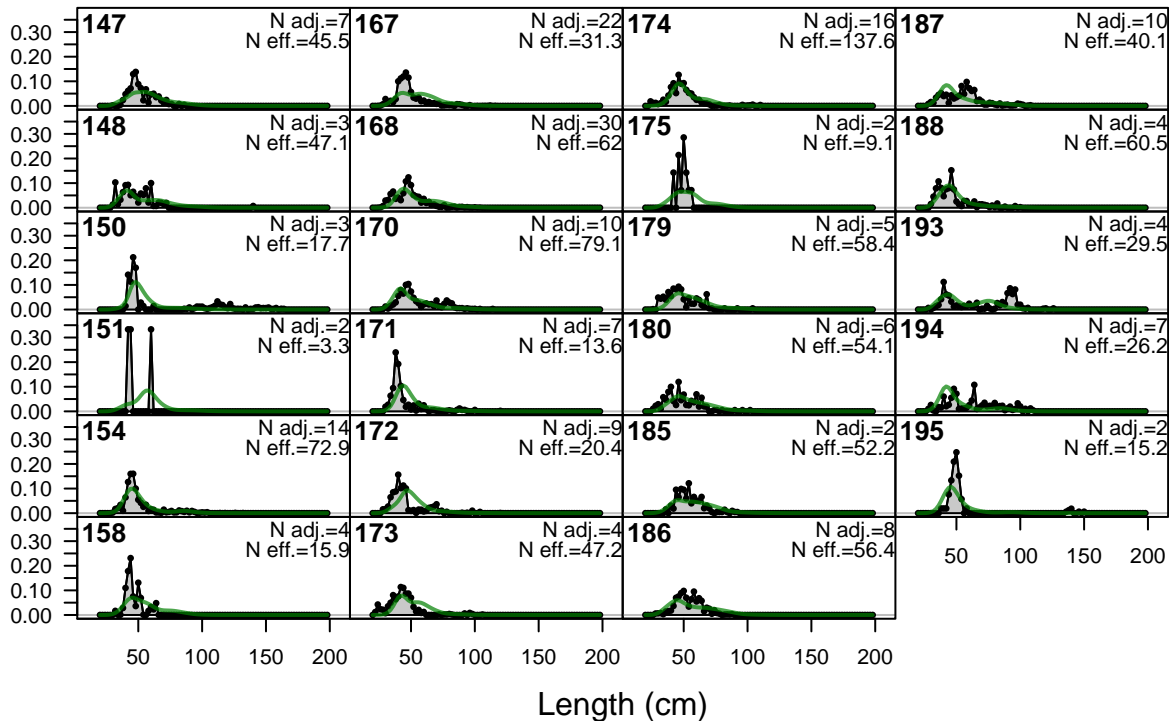


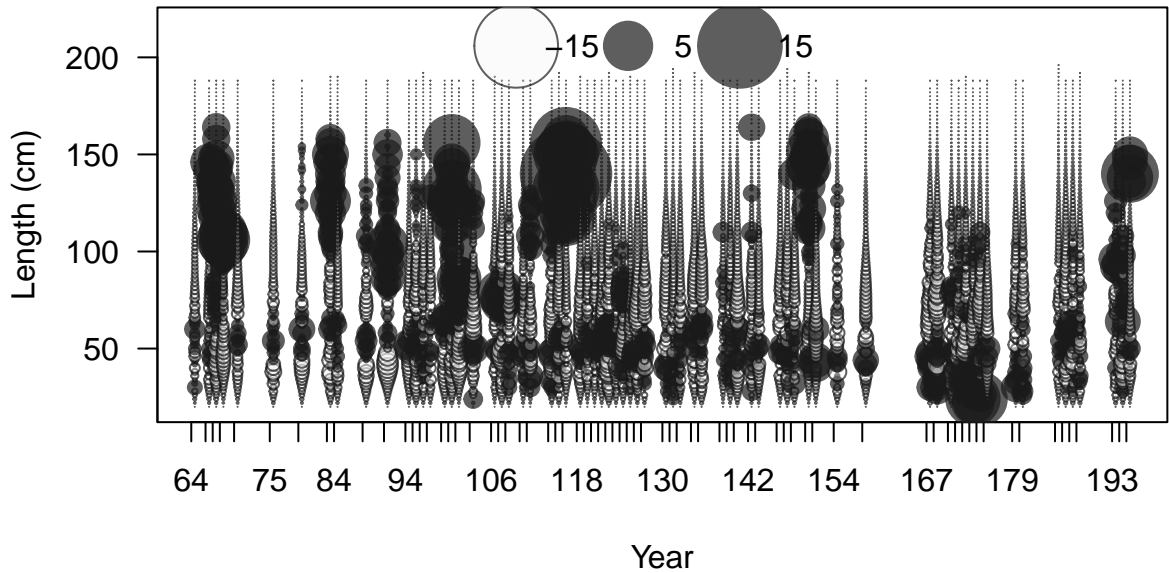
Proportion

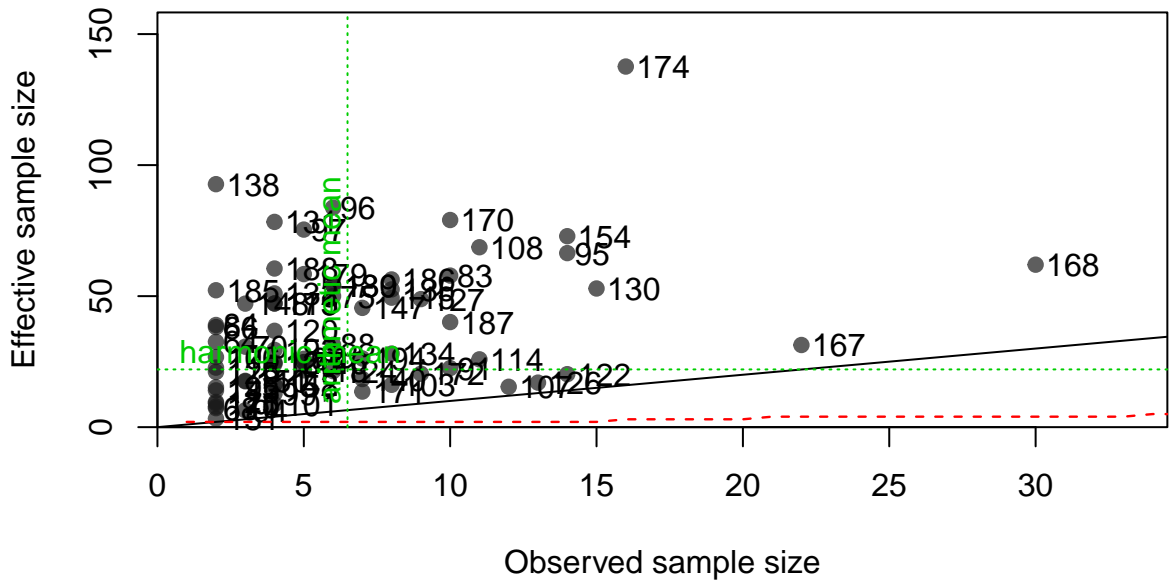




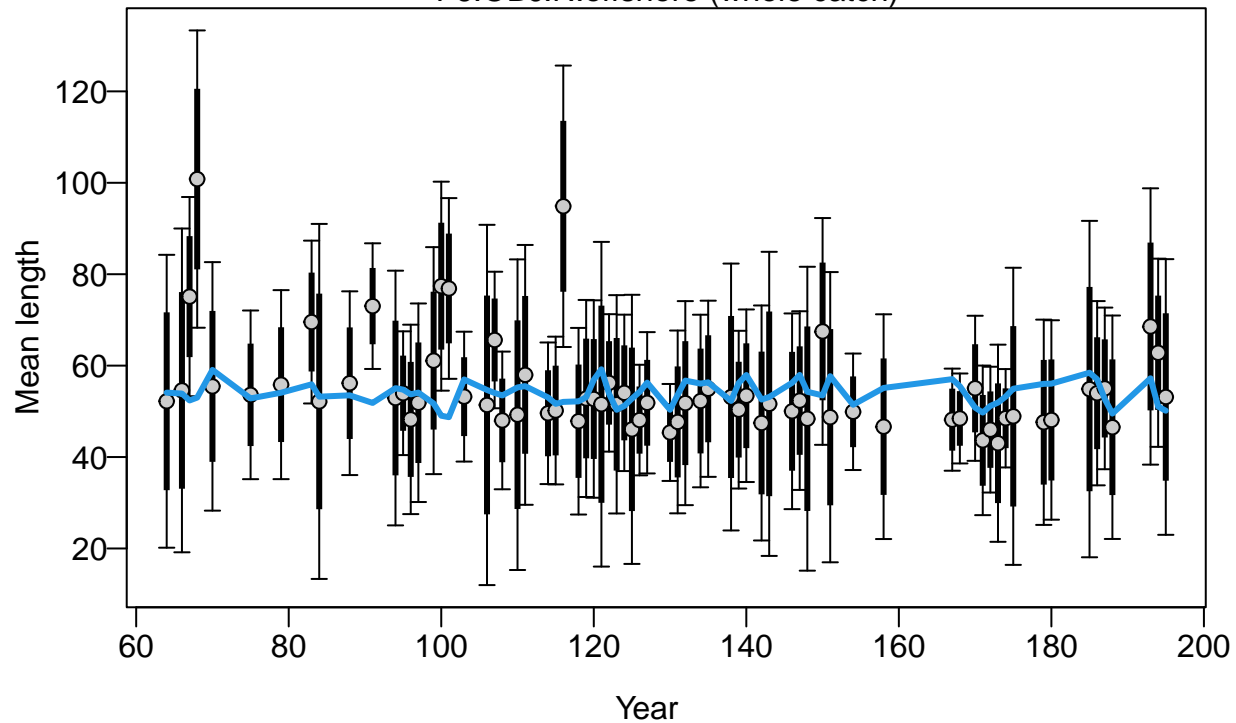
Proportion



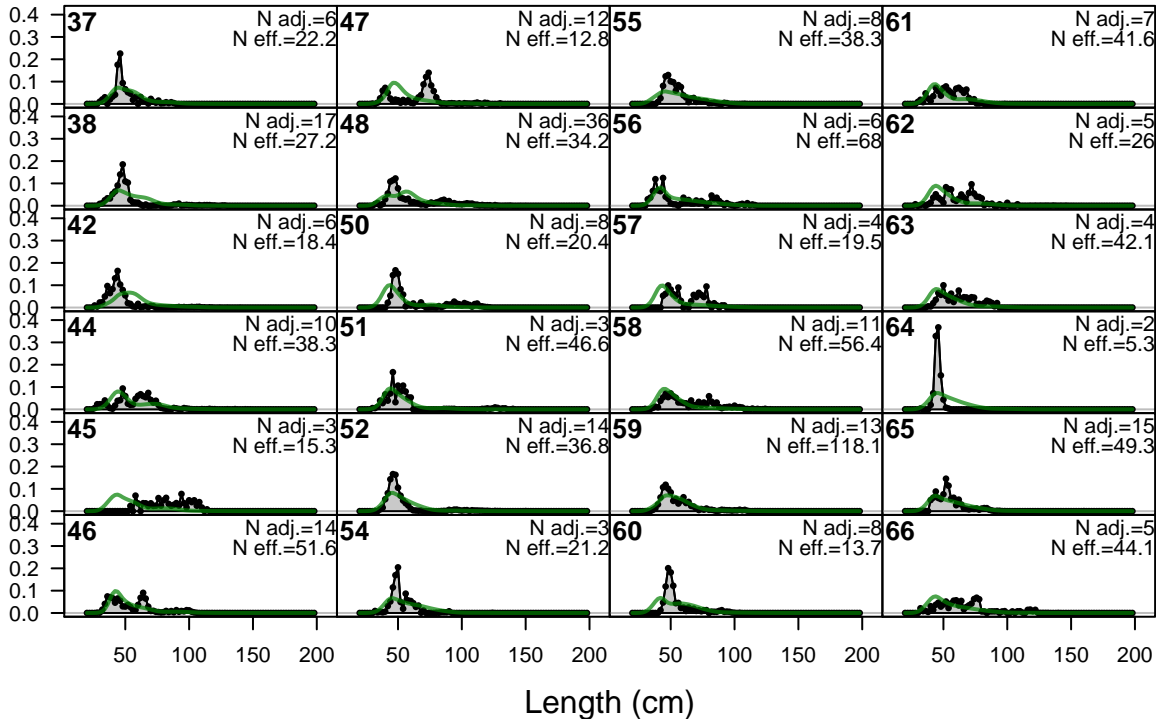




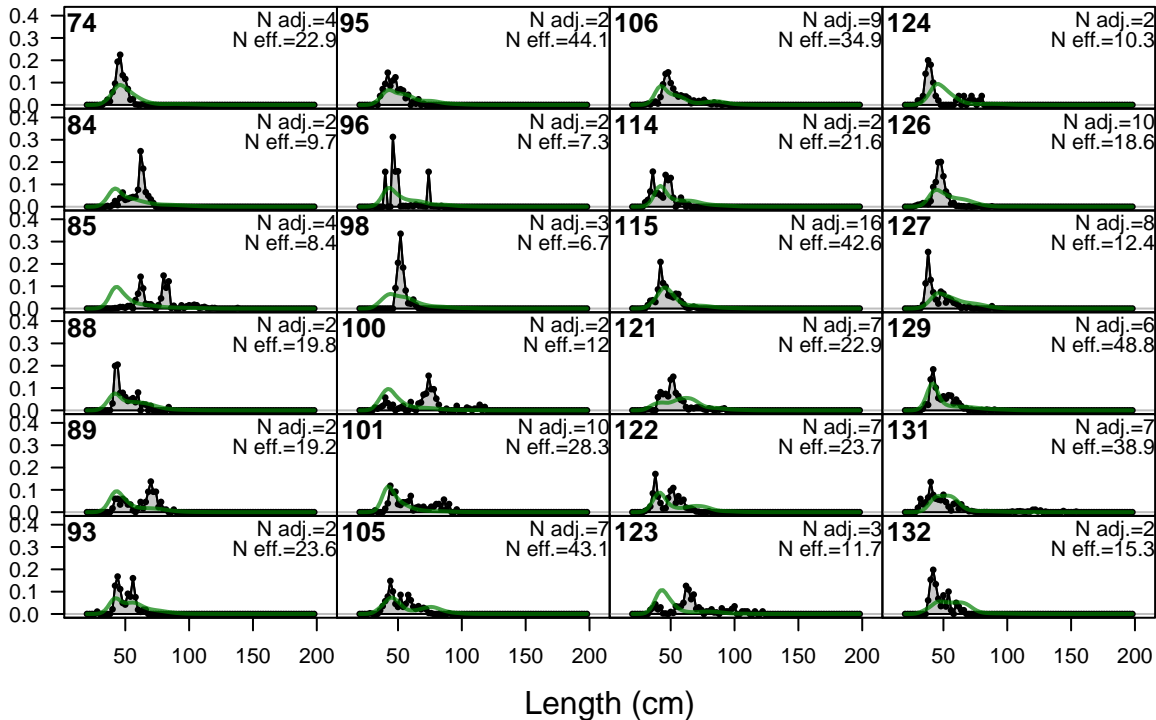
F6.OBJ.N.offshore (whole catch)



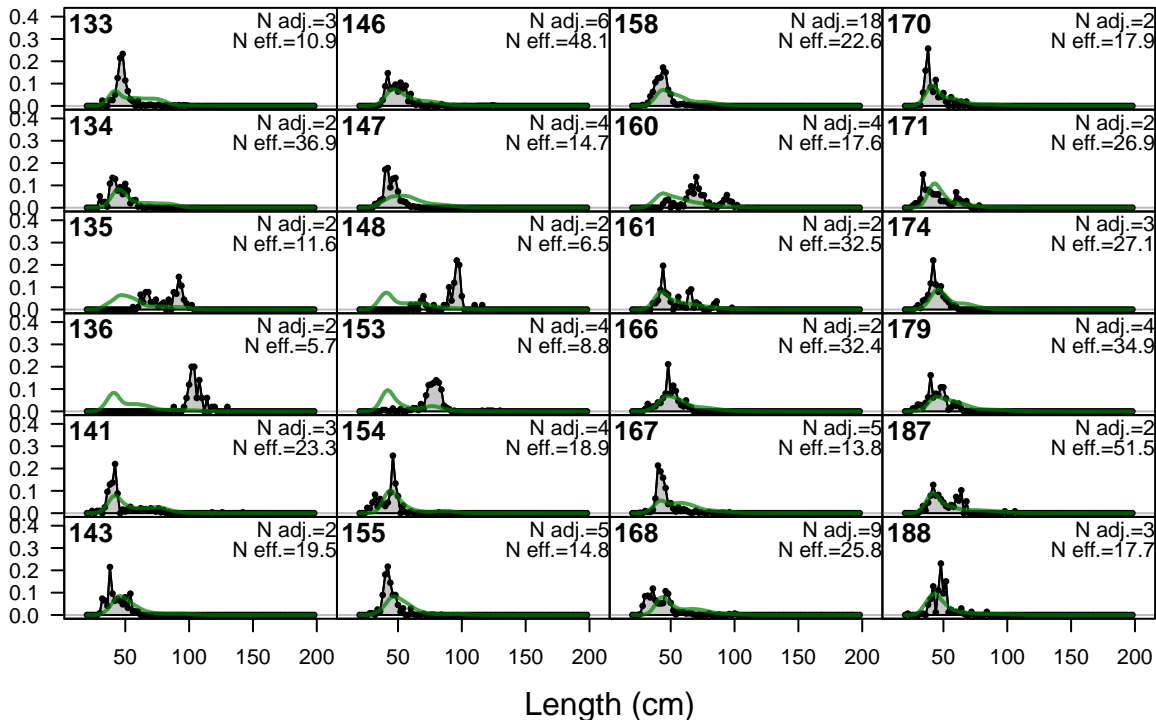
Proportion

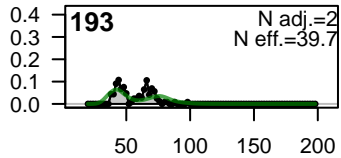


Proportion



Proportion

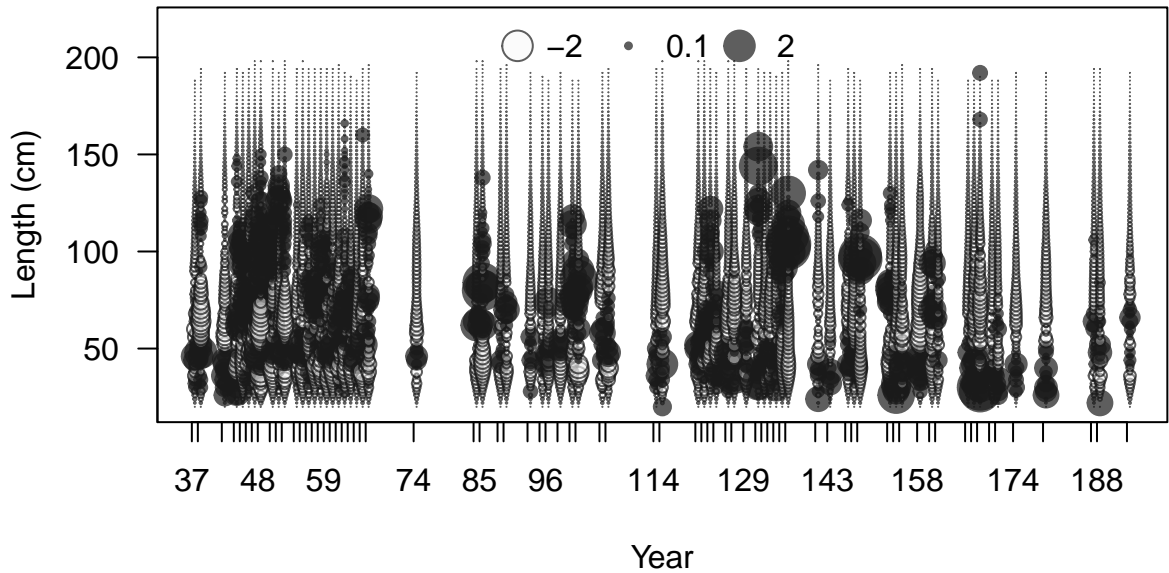




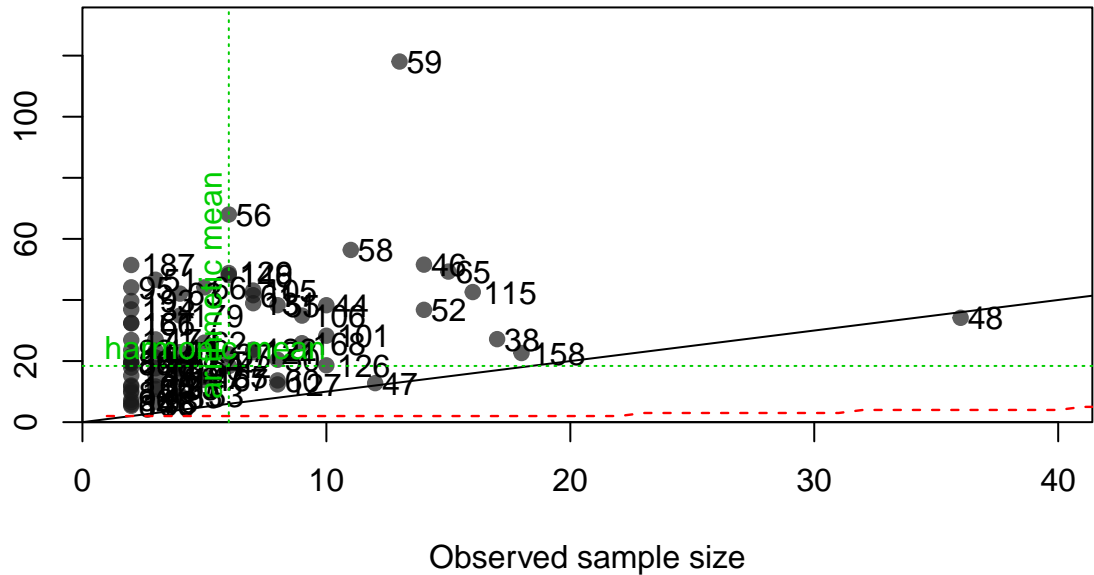
Proportion

Length (cm)

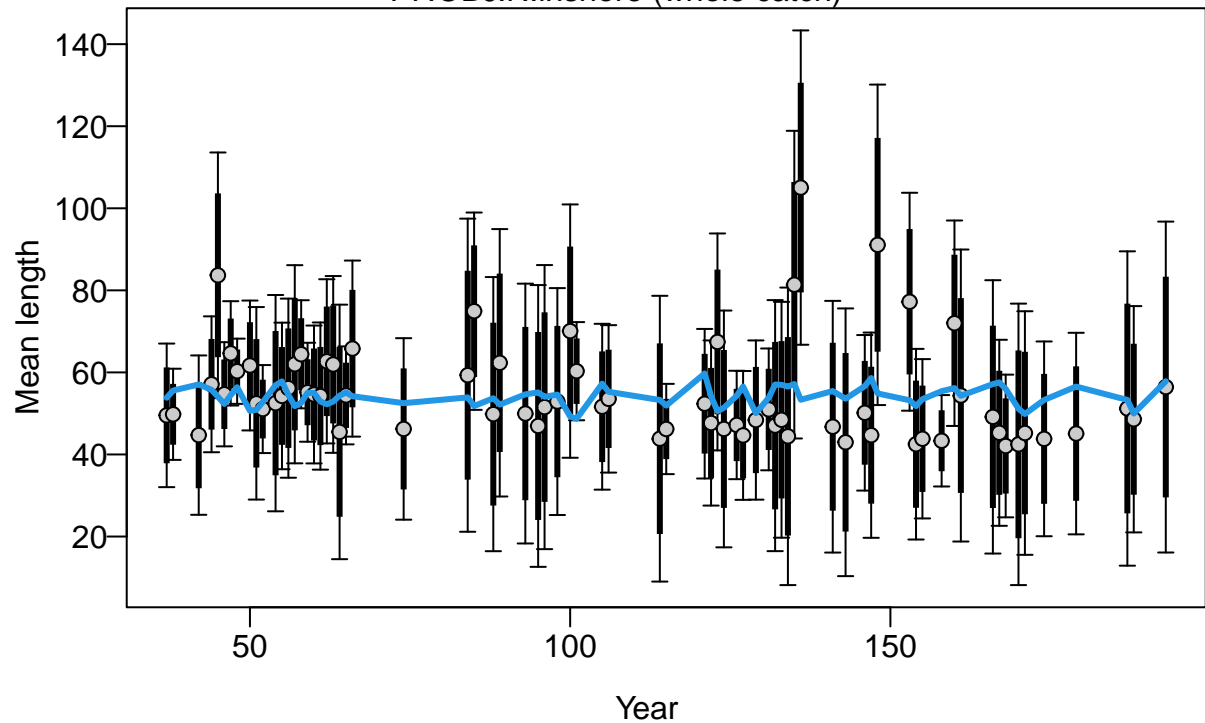




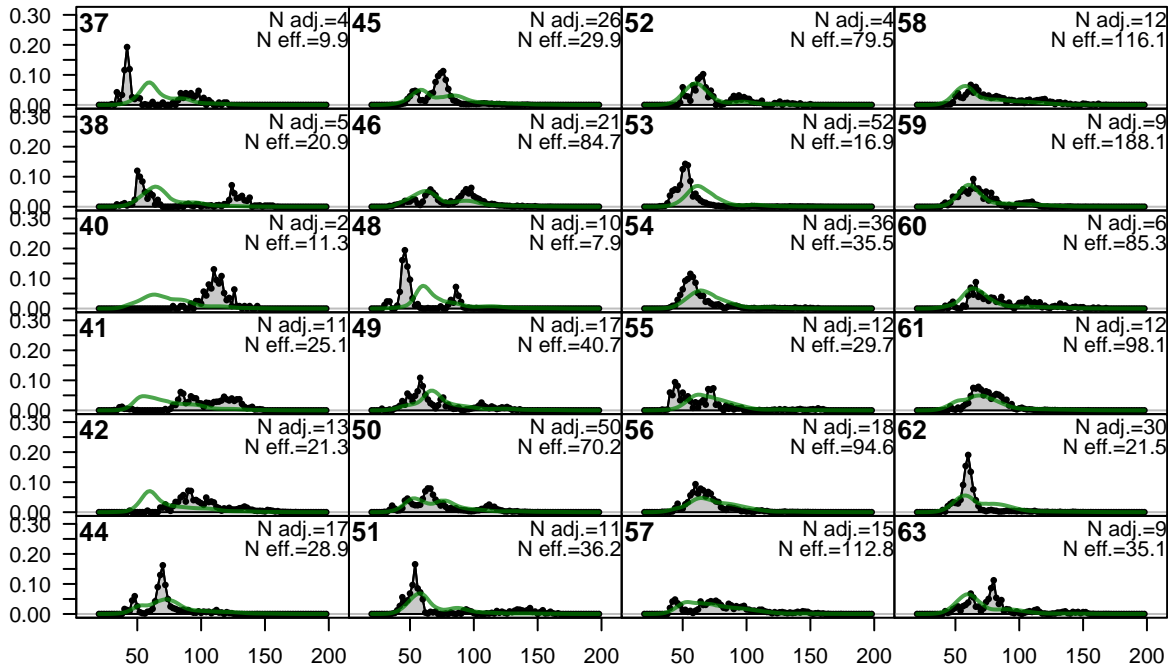
Effective sample size



F7.OBJ.N.inshore (whole catch)

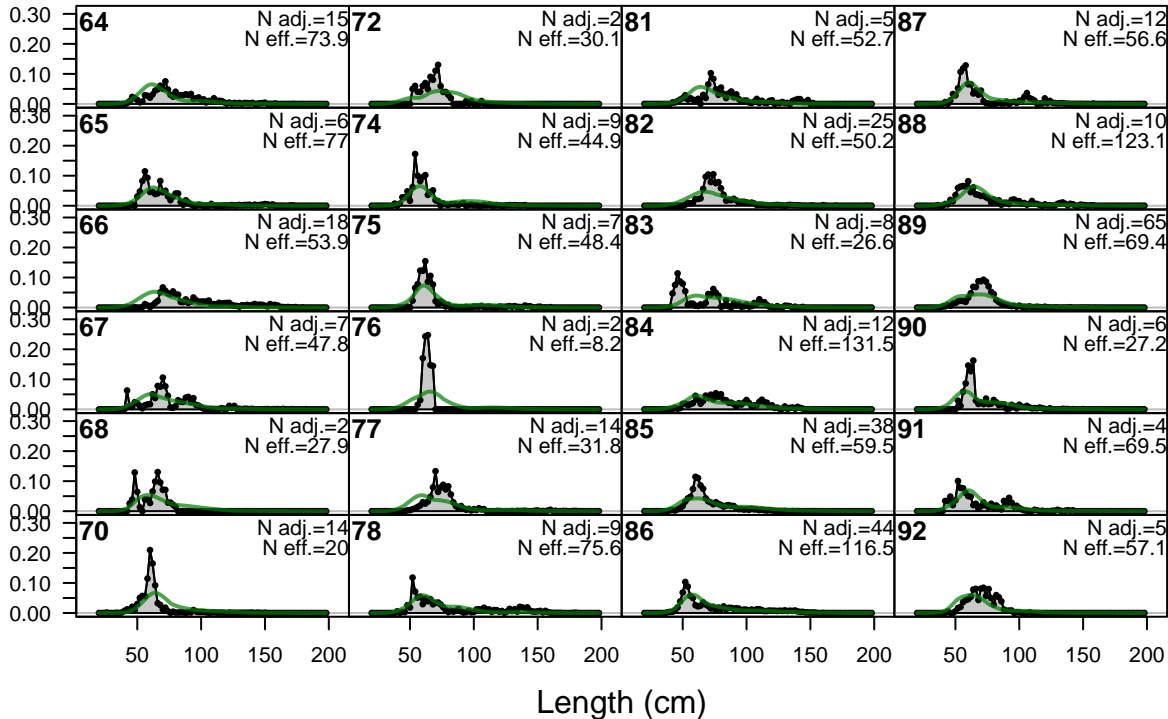


Proportion

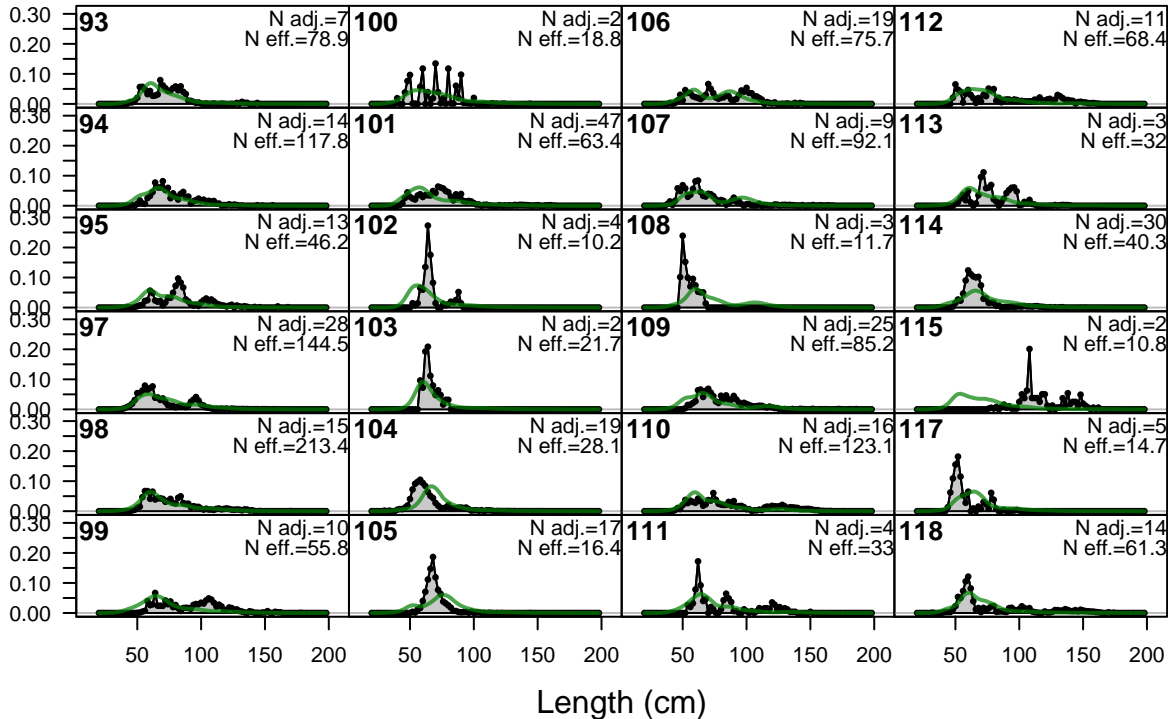


Length (cm)

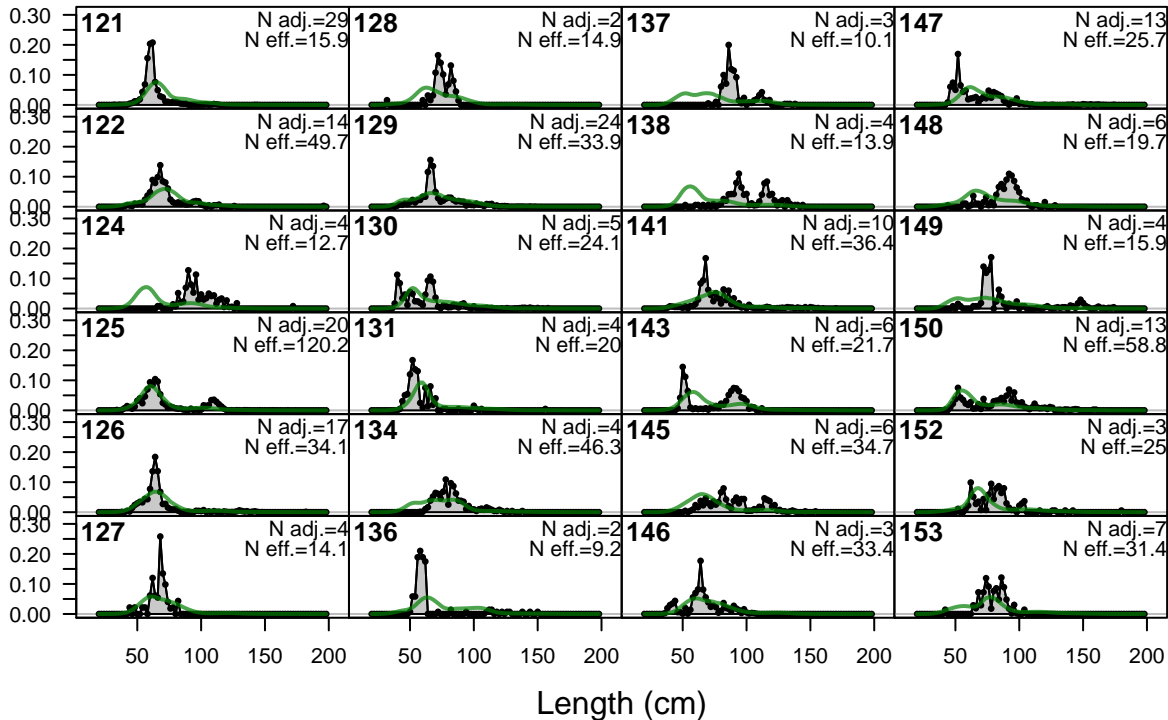
Proportion



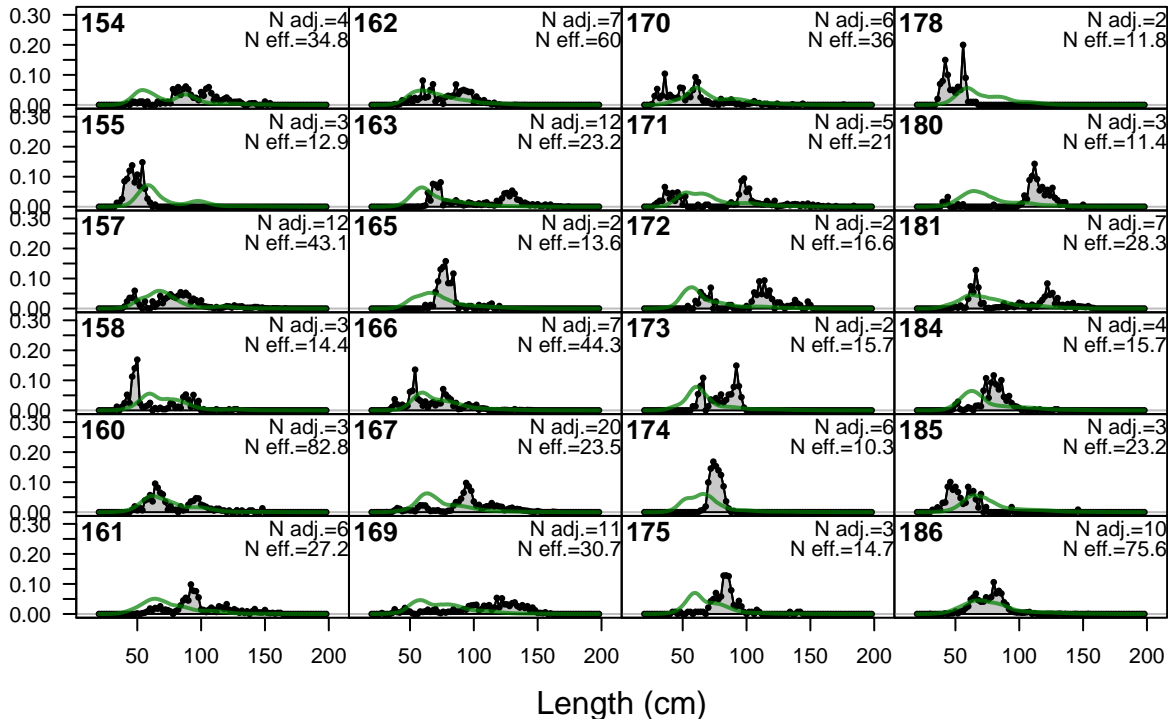
Proportion



Proportion

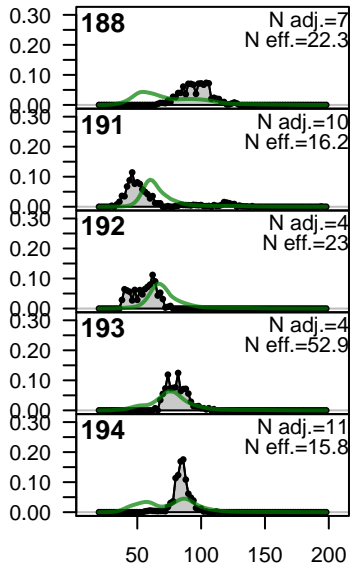


Proportion

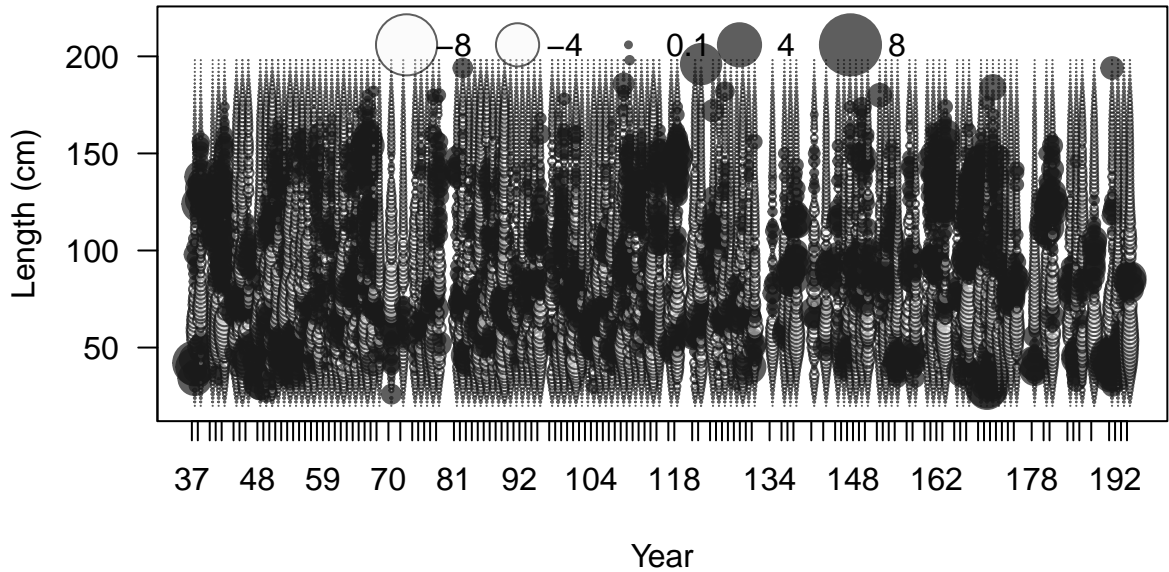




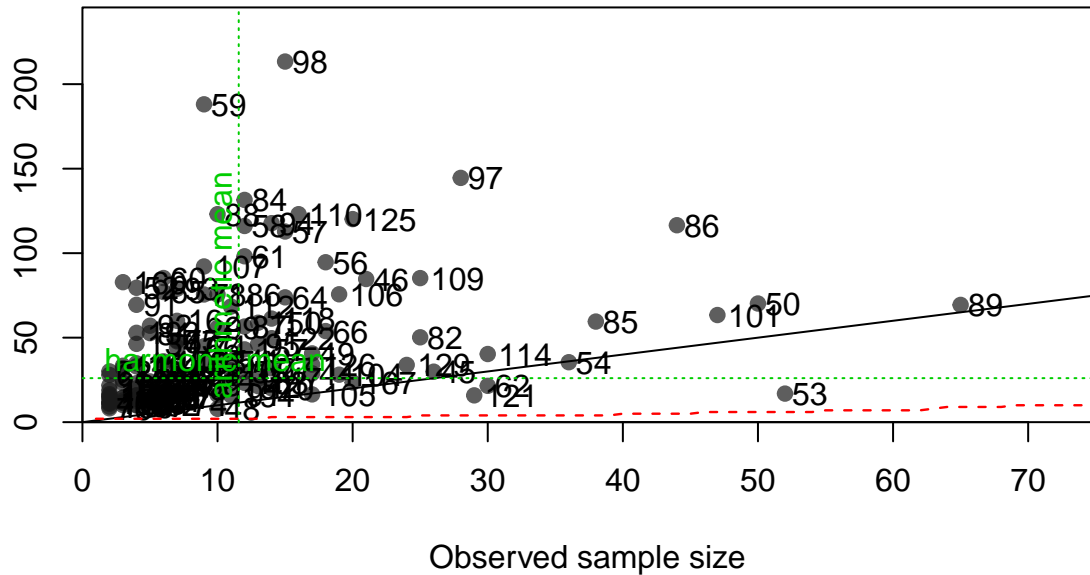
Proportion



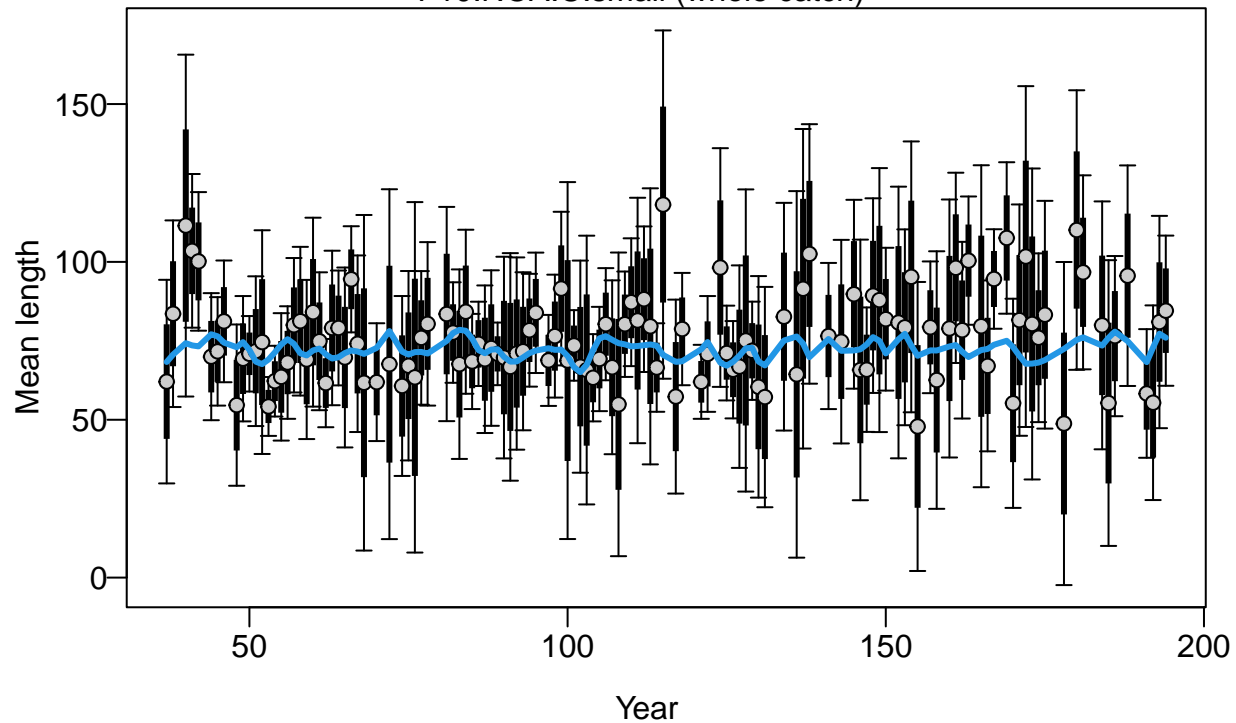
Length (cm)



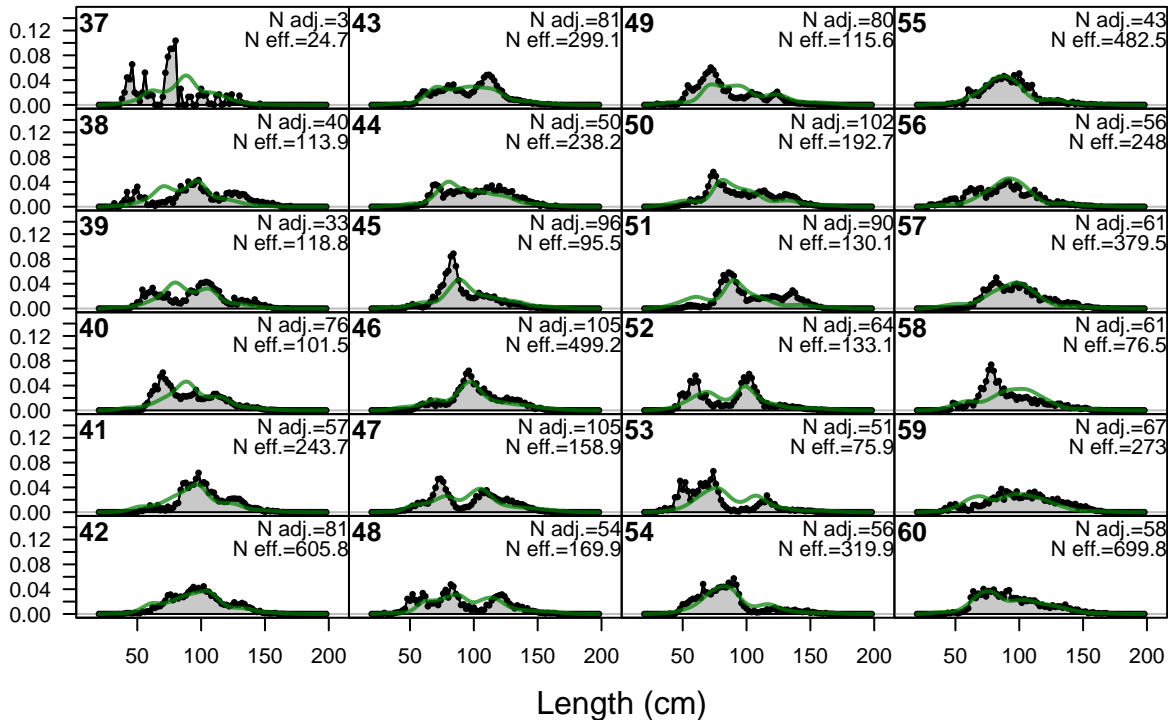
Effective sample size



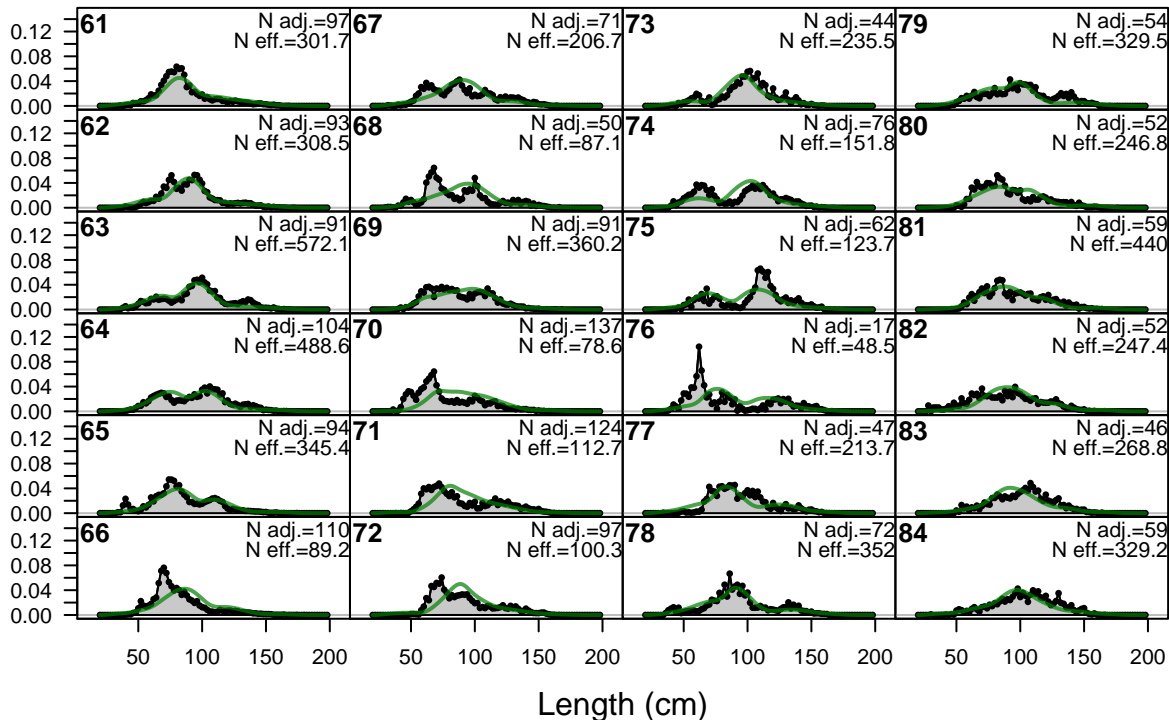
F10.NOA.C.small (whole catch)



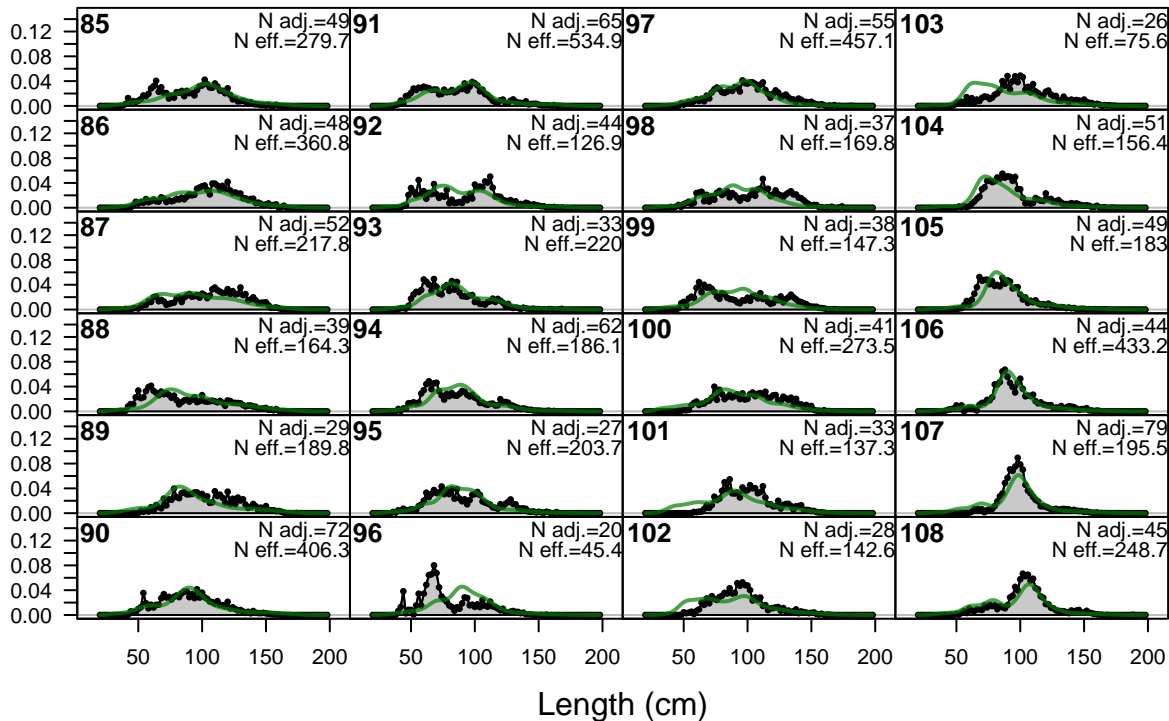
Proportion



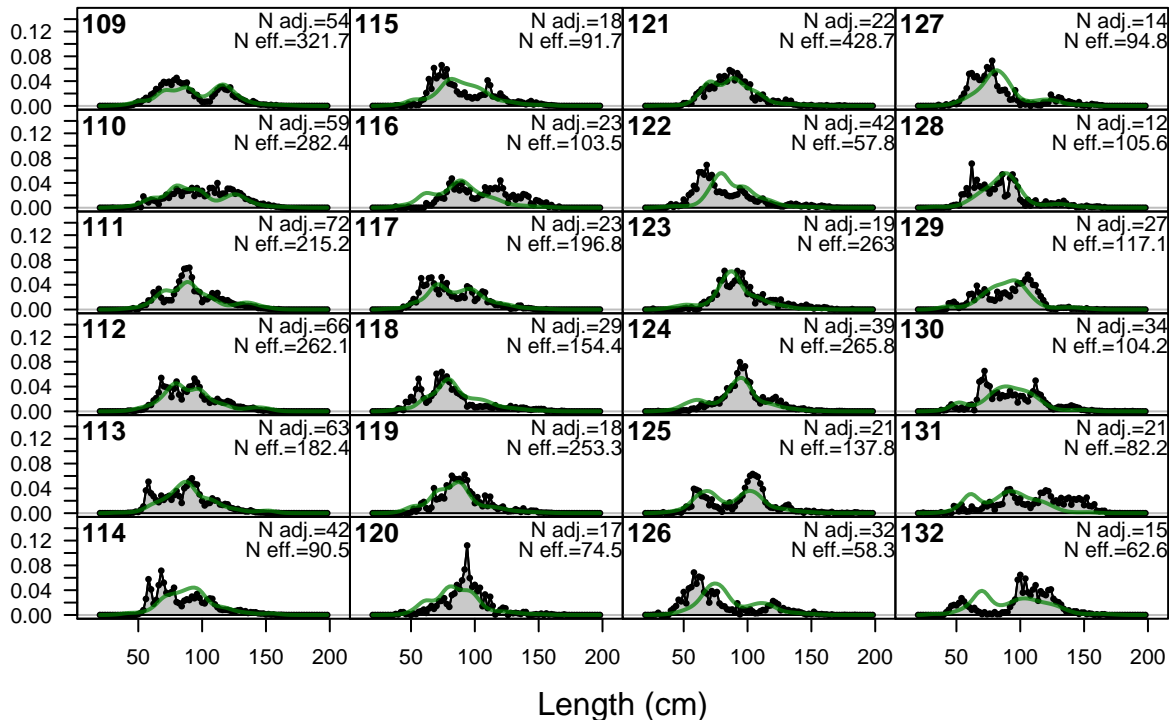
Proportion



Proportion

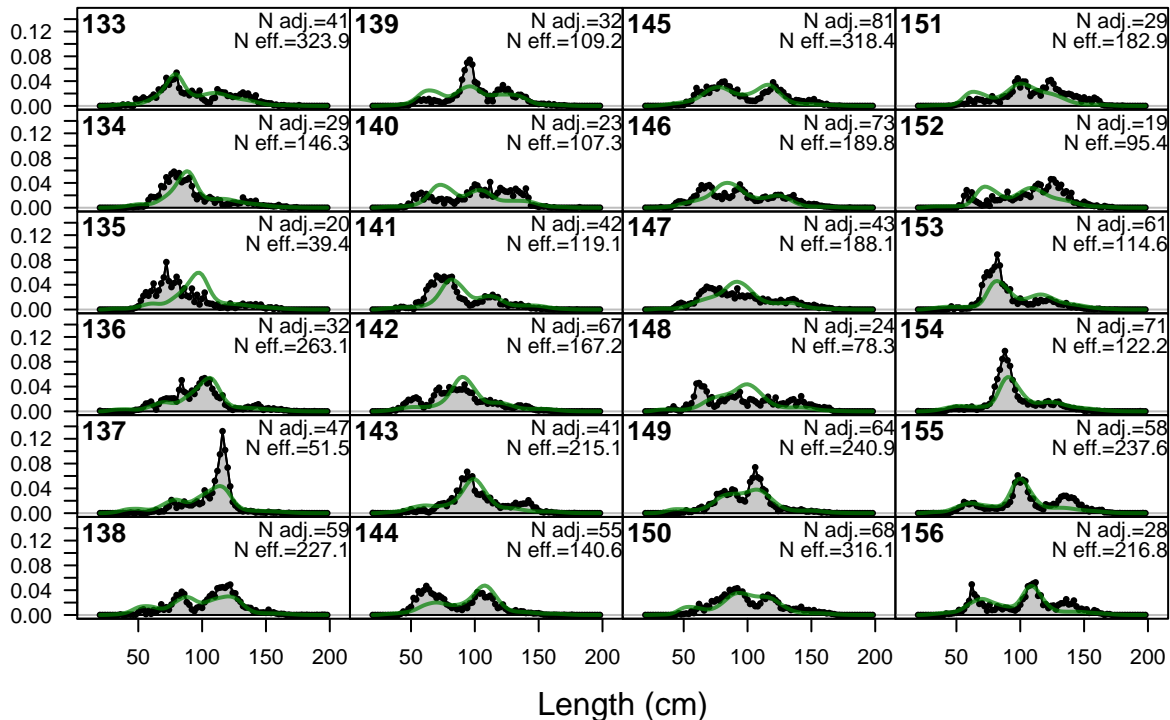


Proportion

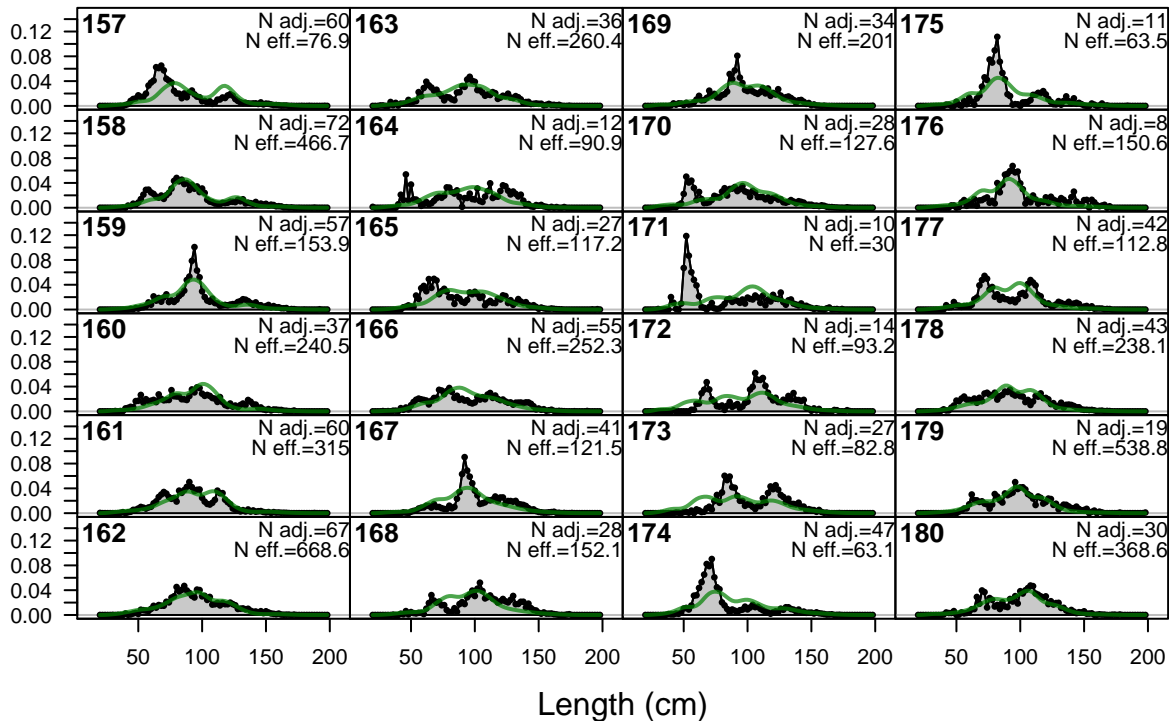




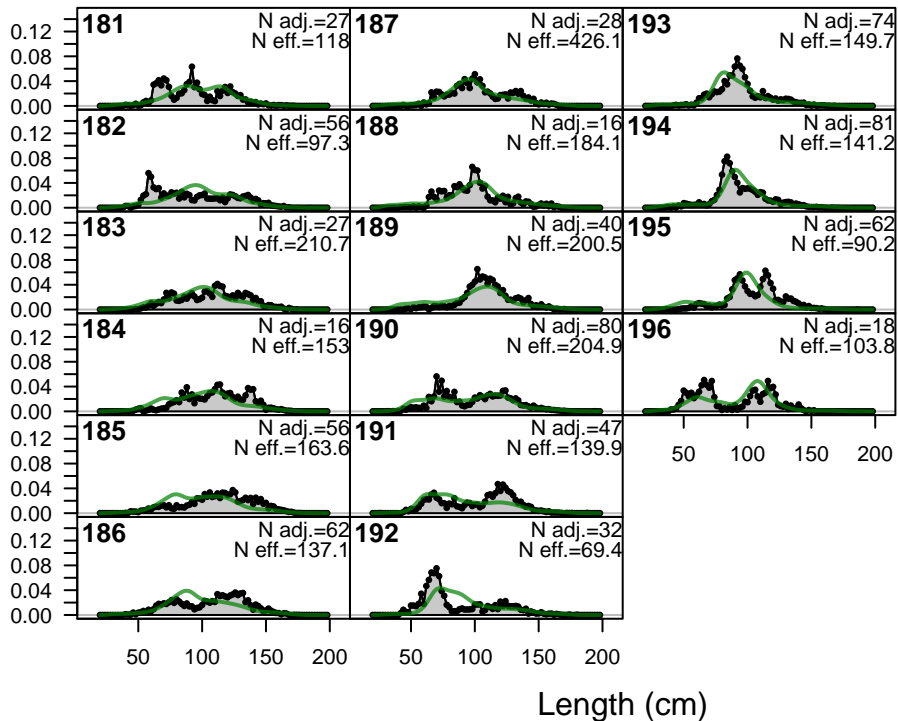
Proportion

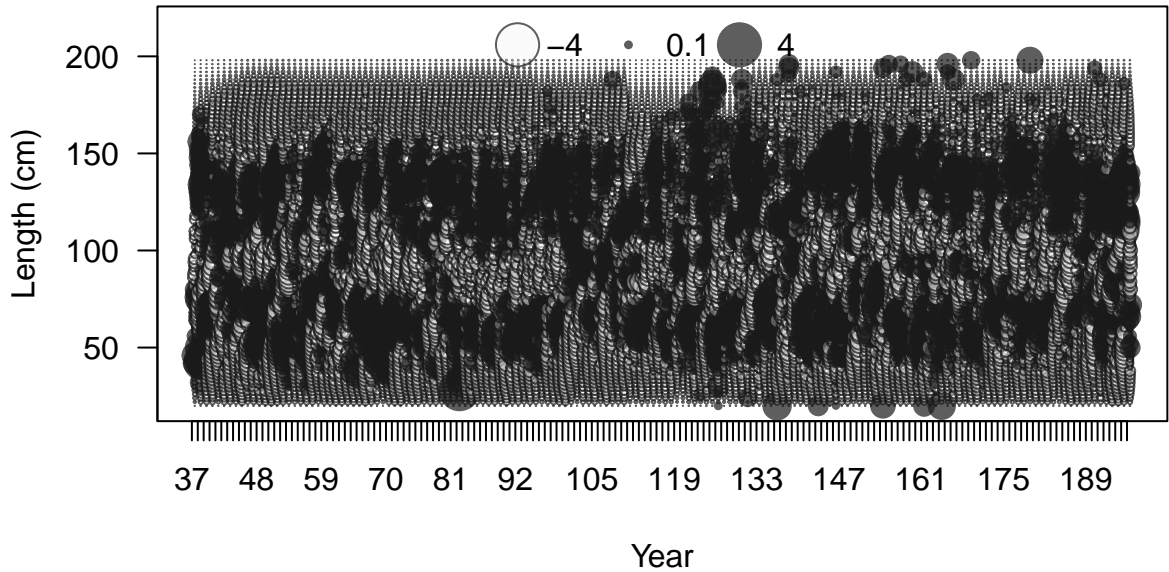


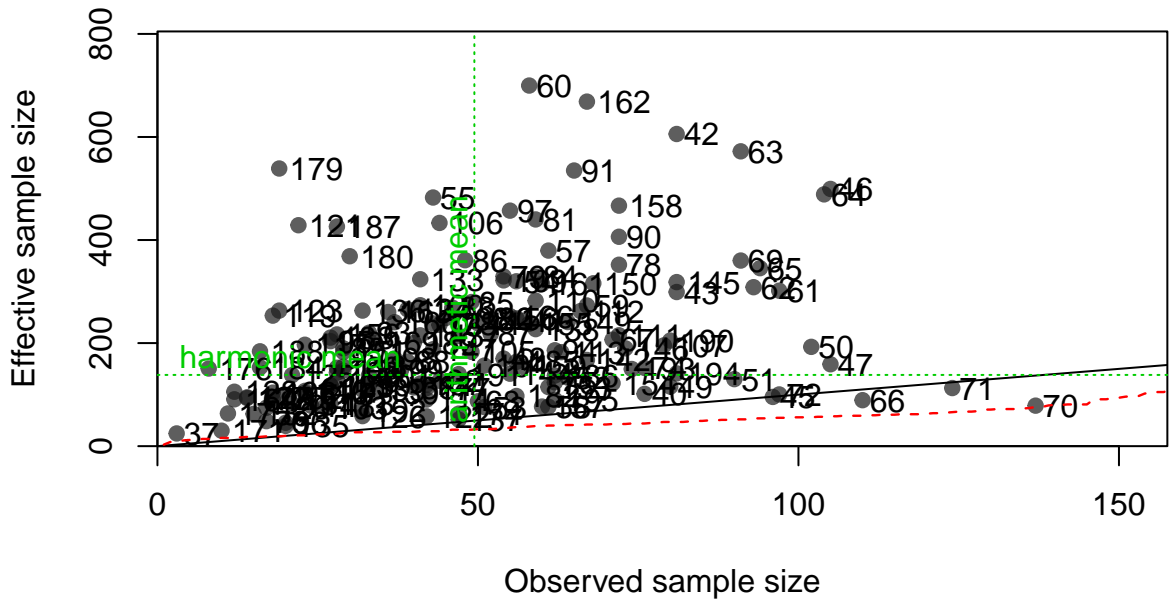
Proportion



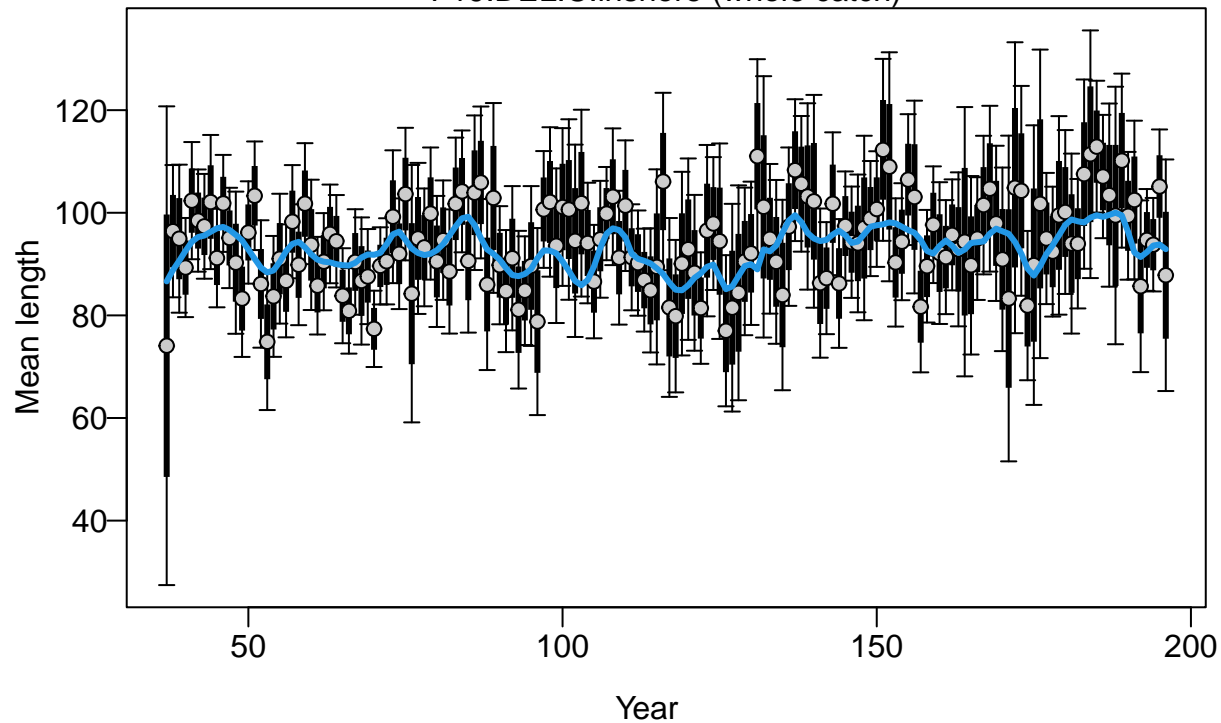
Proportion



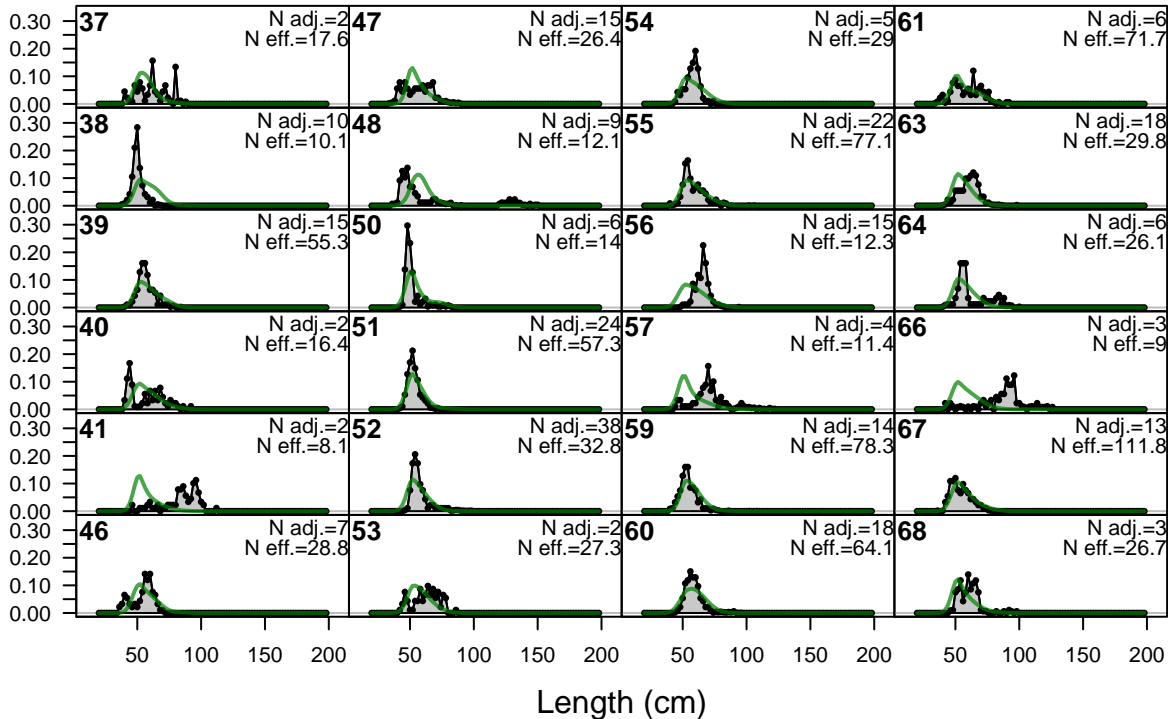




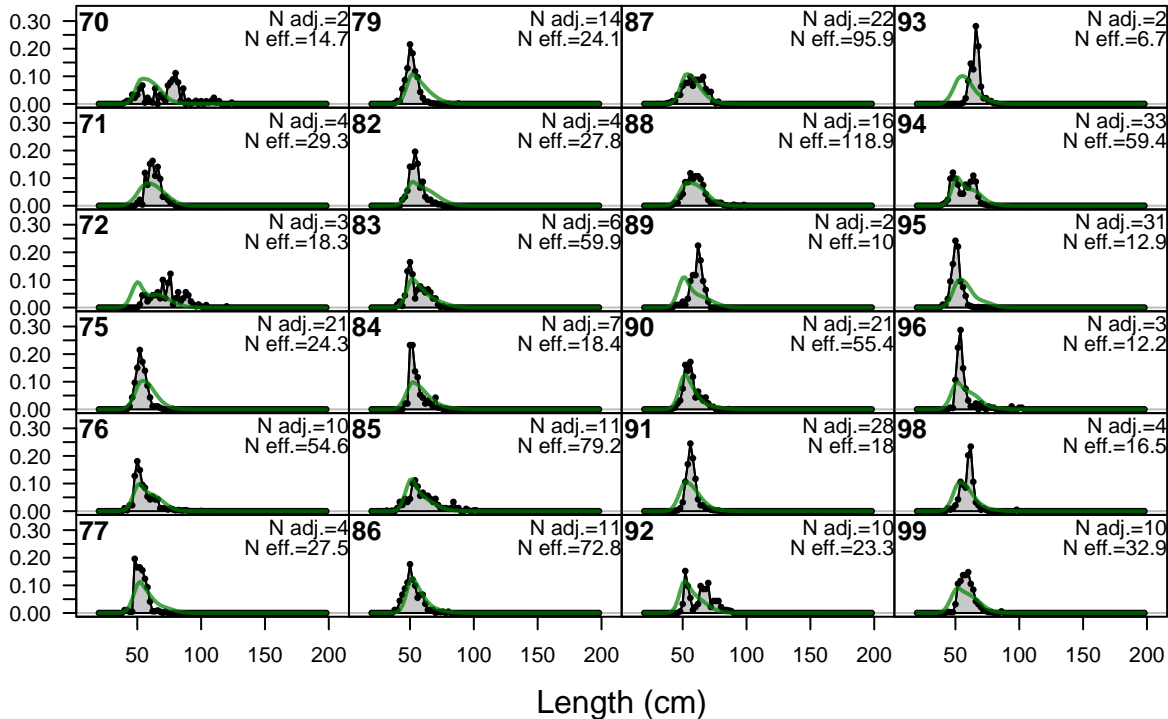
# F19.DEL.C.inshore (whole catch)



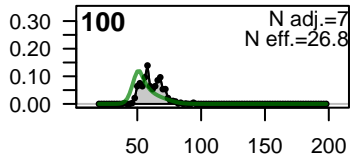
Proportion



Proportion

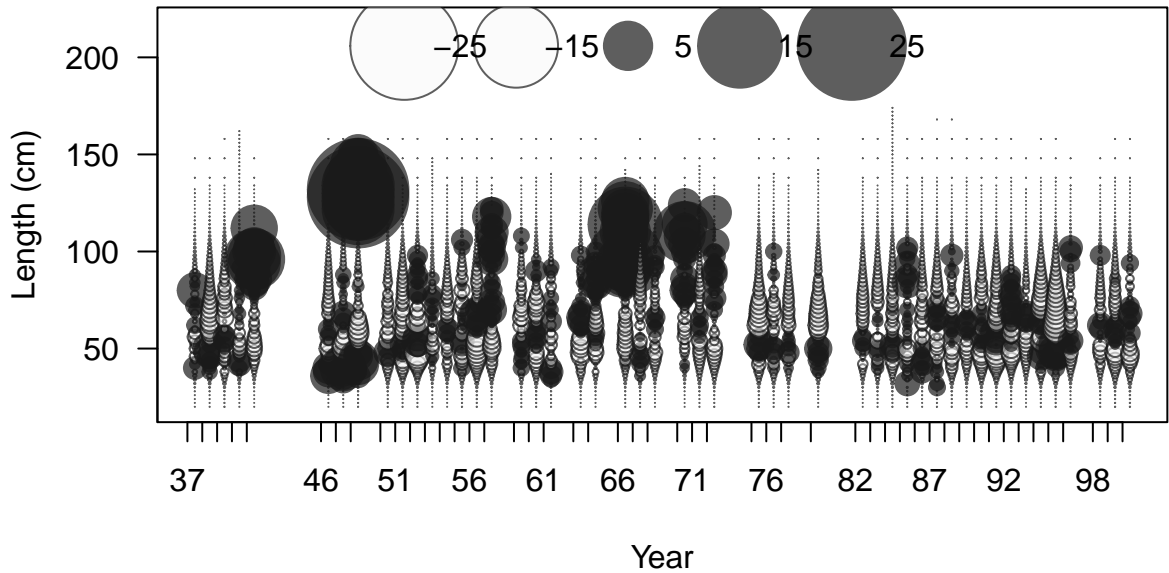




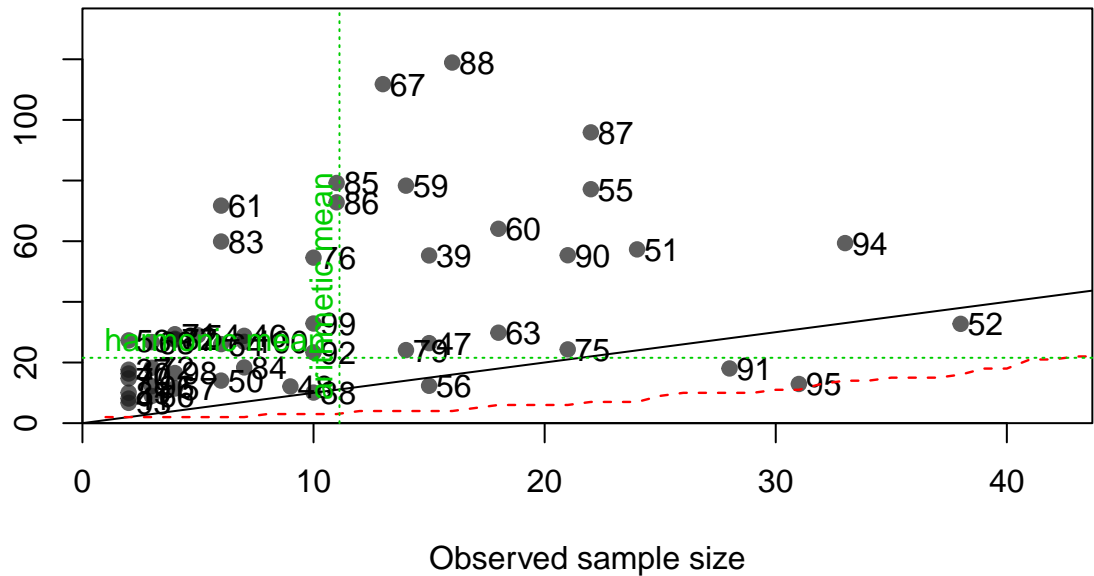


Proportion

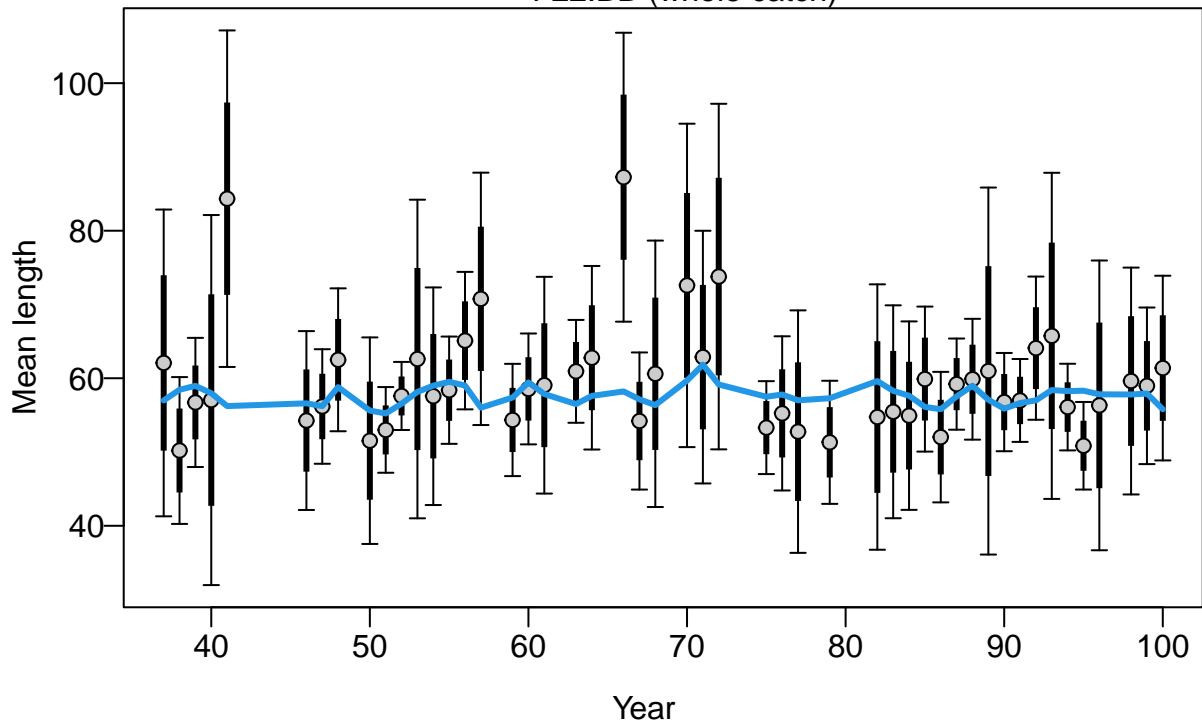
Length (cm)

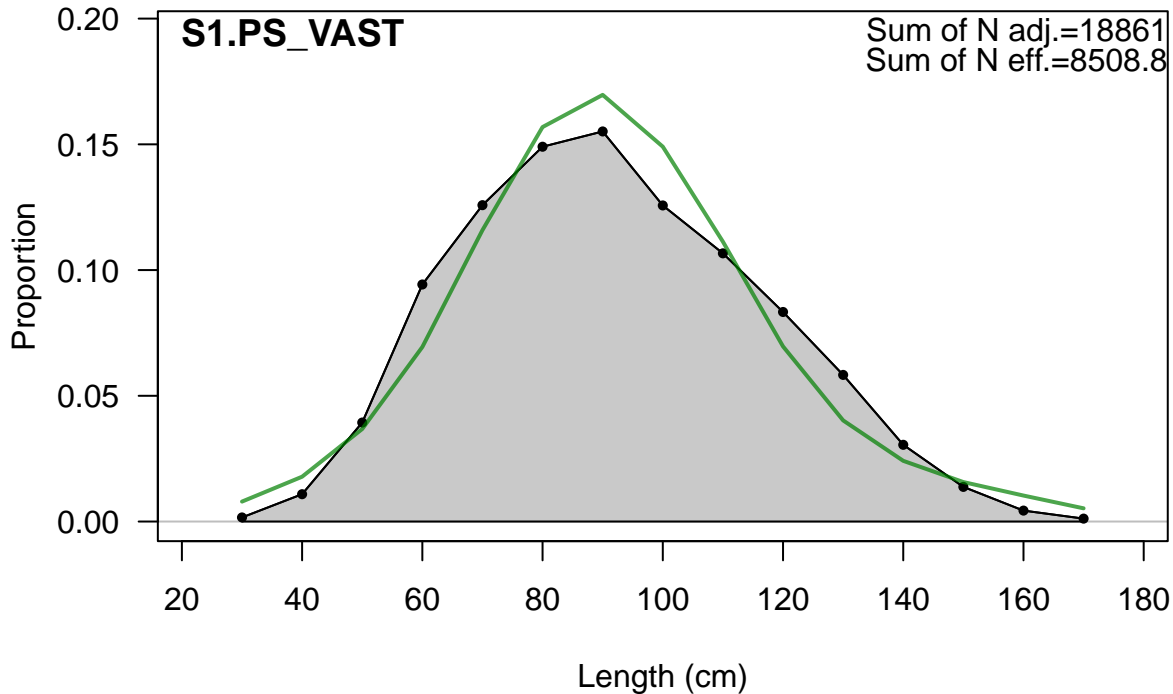


Effective sample size

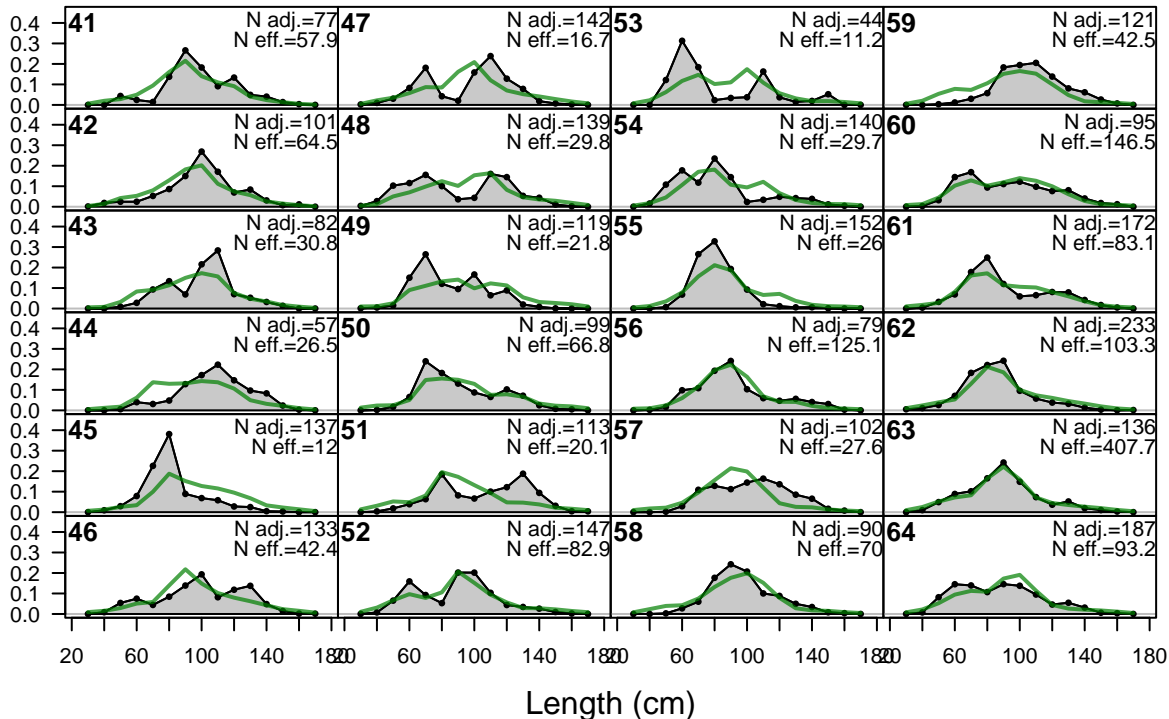


F22.BB (whole catch)

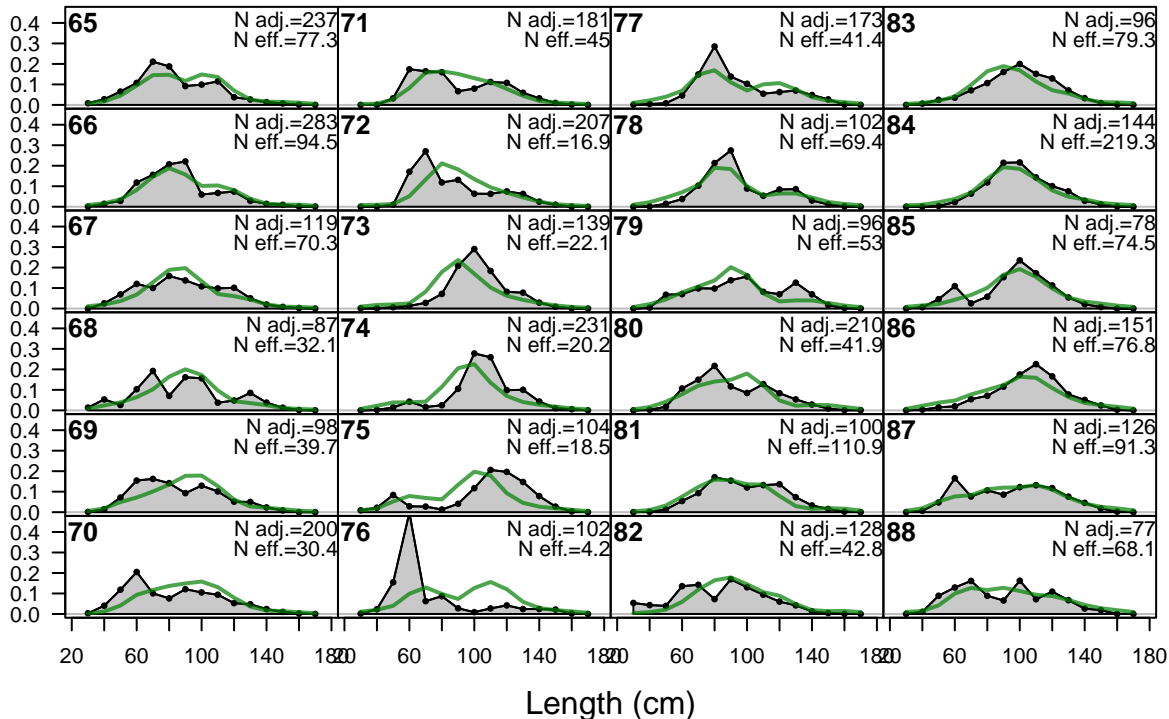




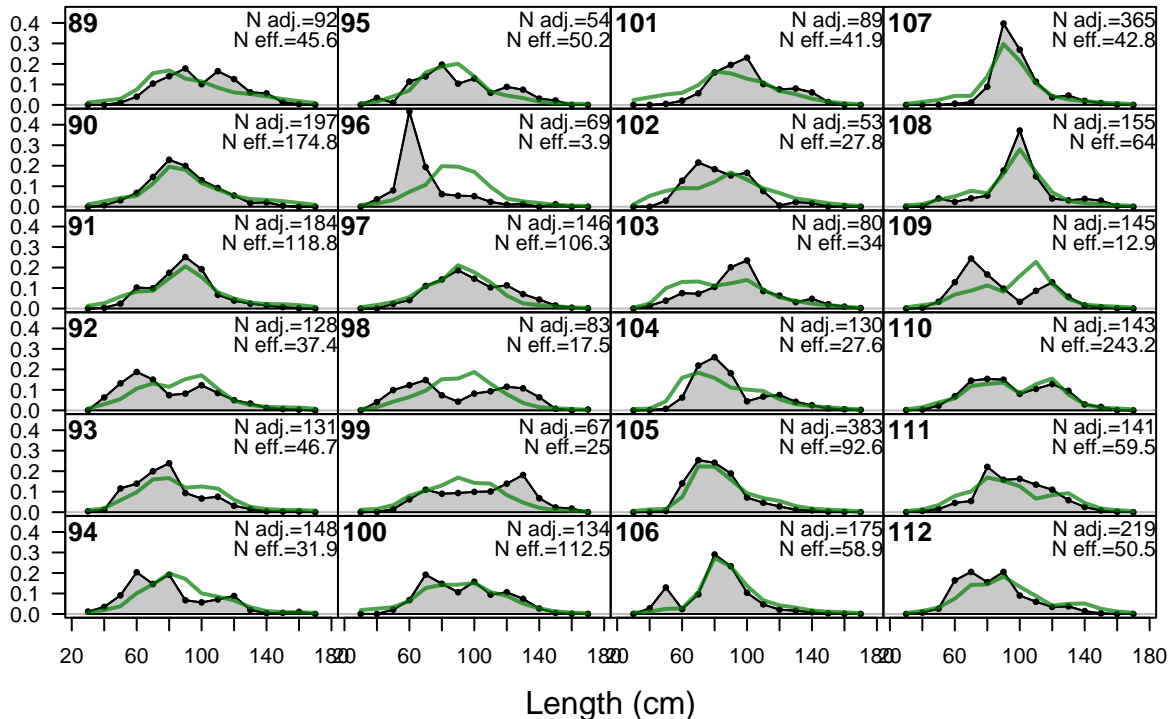
Proportion



Proportion

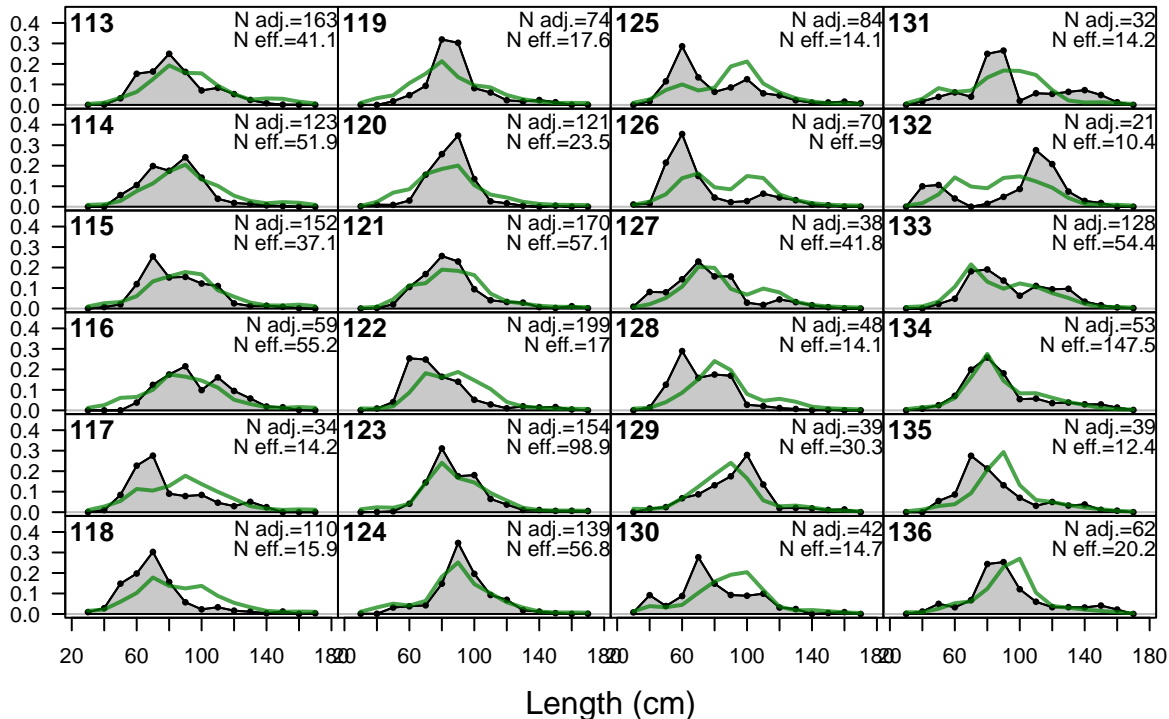


Proportion

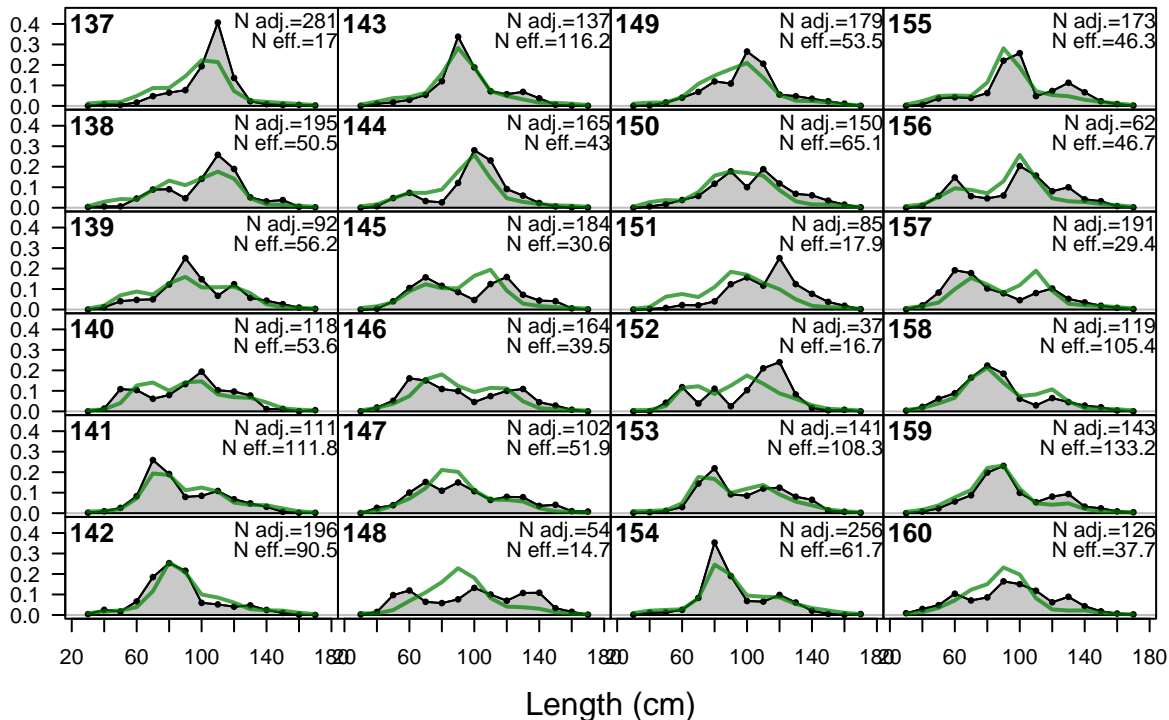




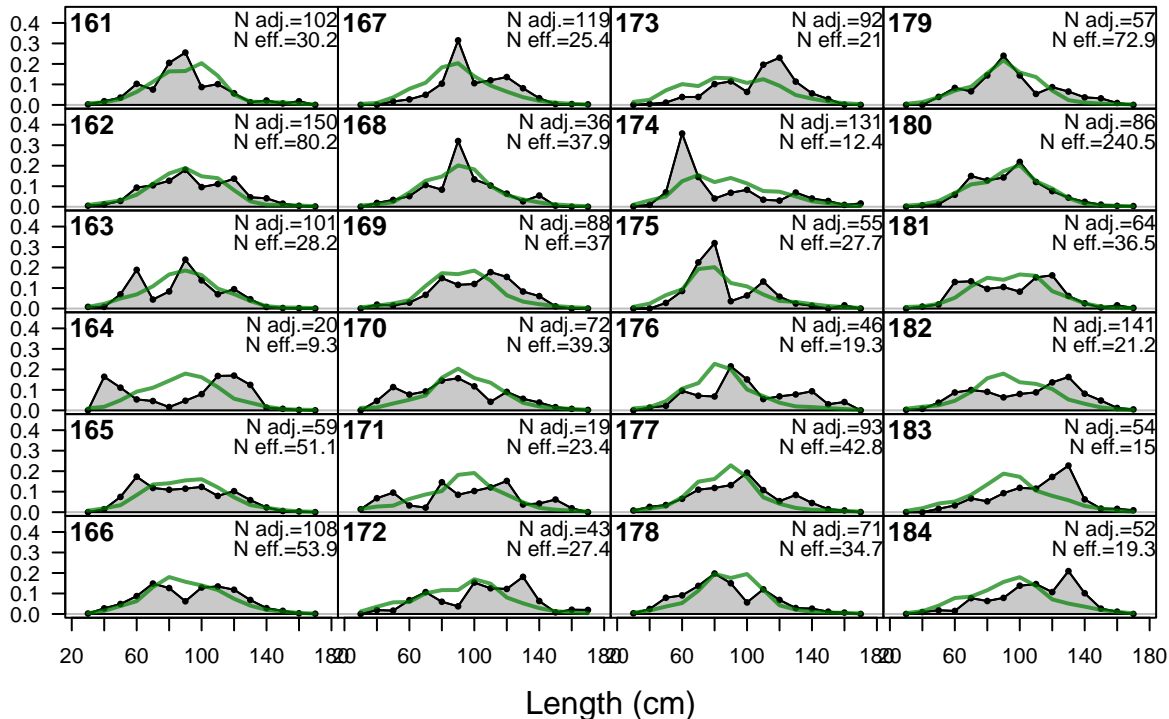
Proportion



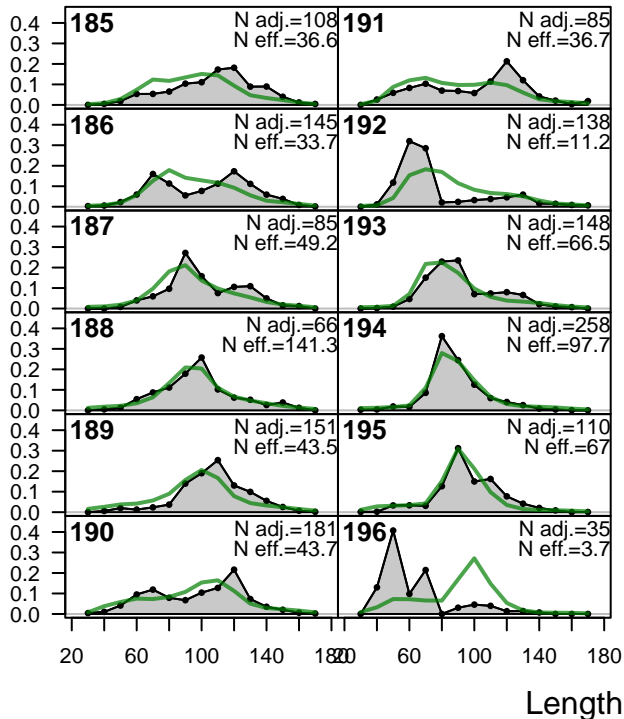
Proportion



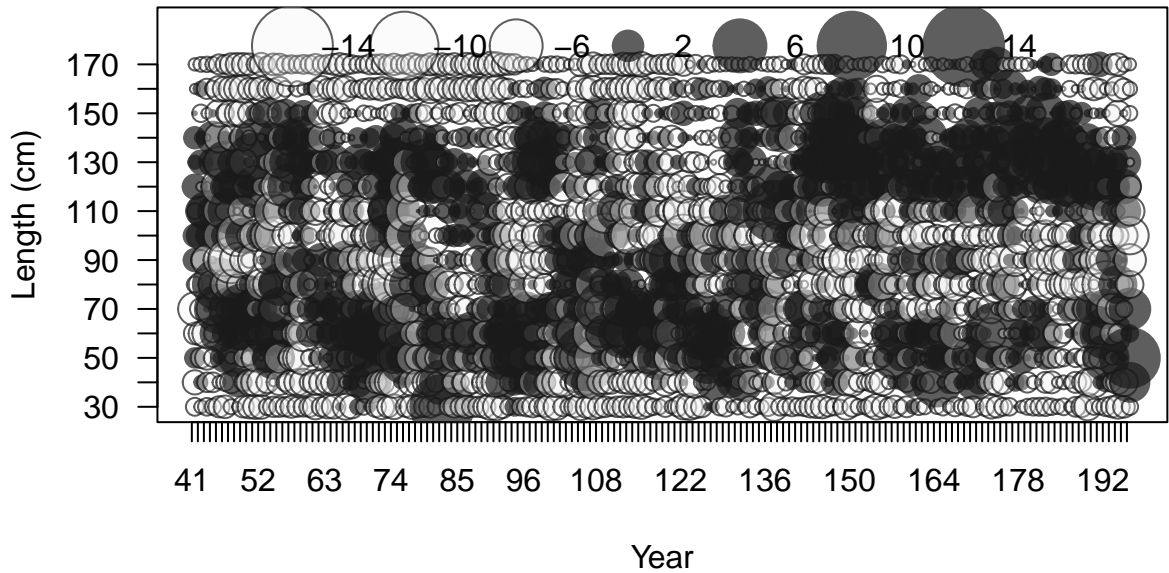
Proportion



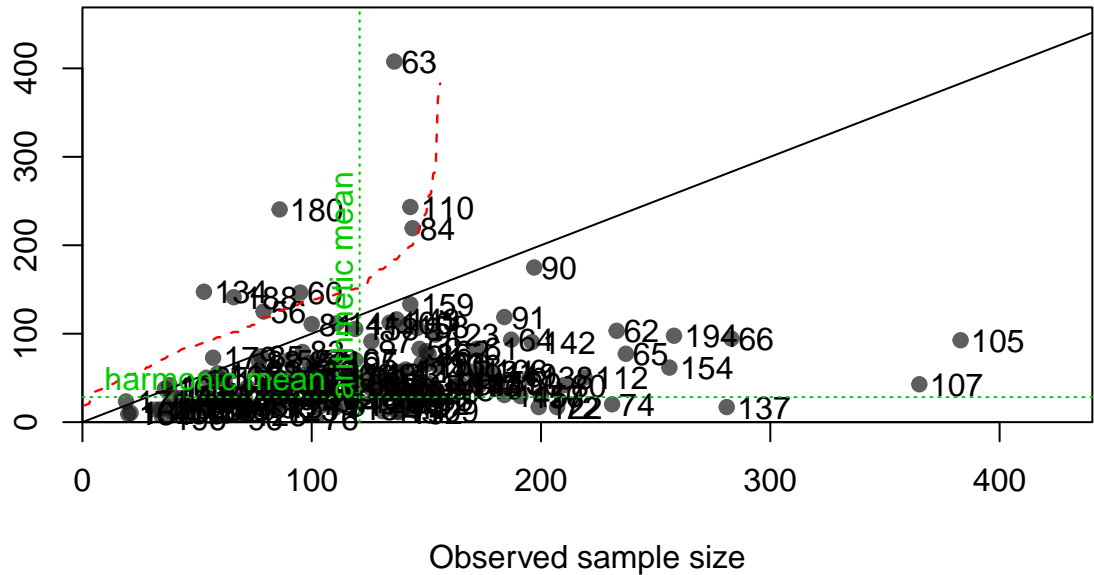
Proportion



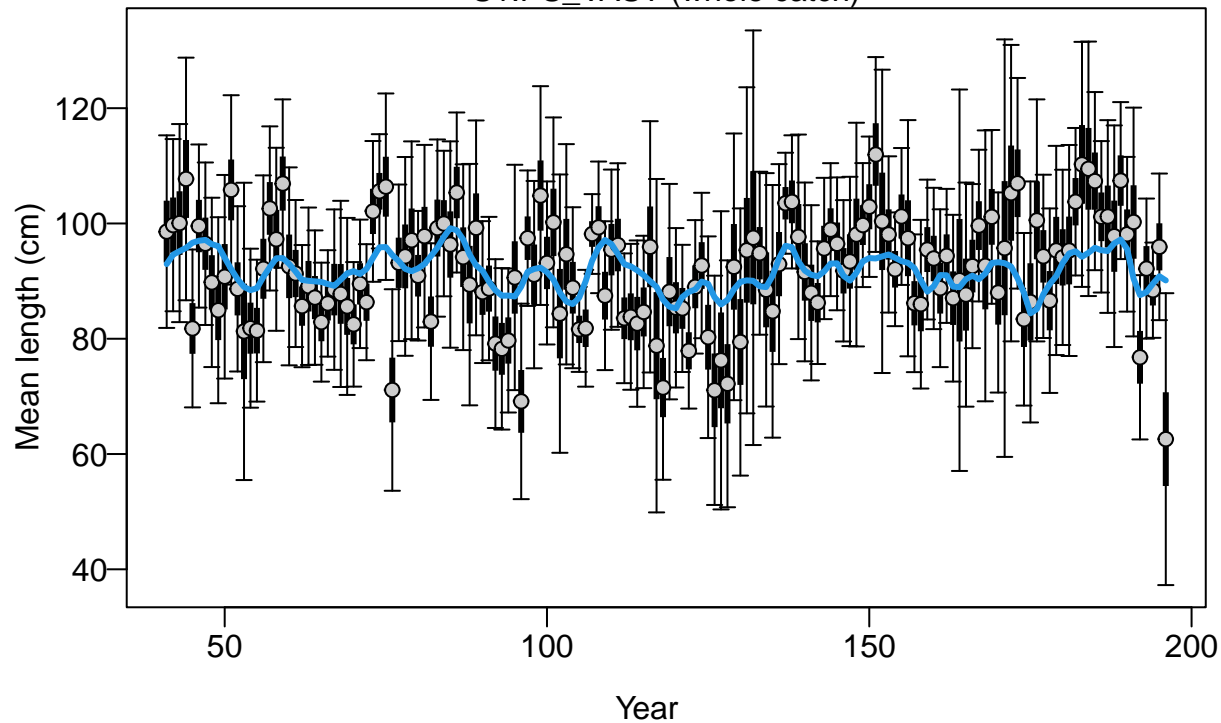
Length (cm)

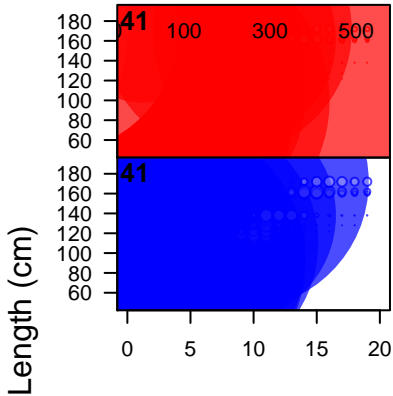


Effective sample size



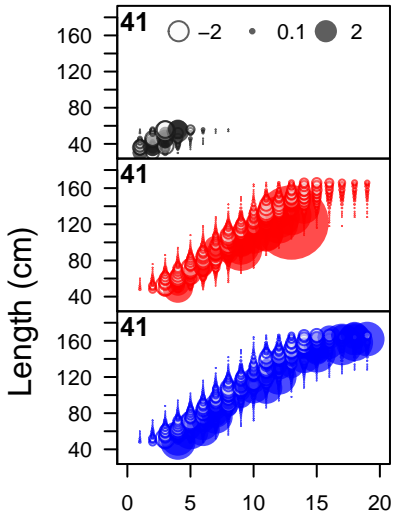
S1.PS\_VAST (whole catch)



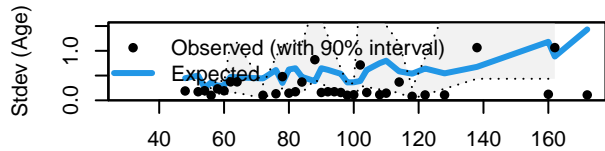
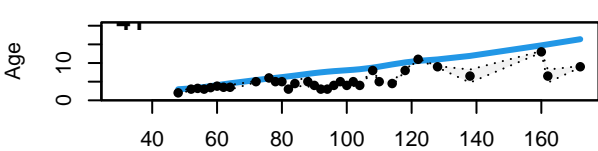


Age (yr)



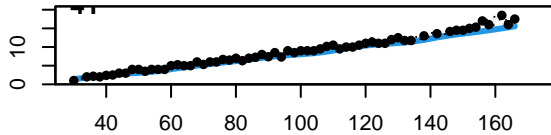


Age (yr)

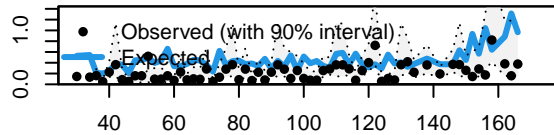


Length (cm)

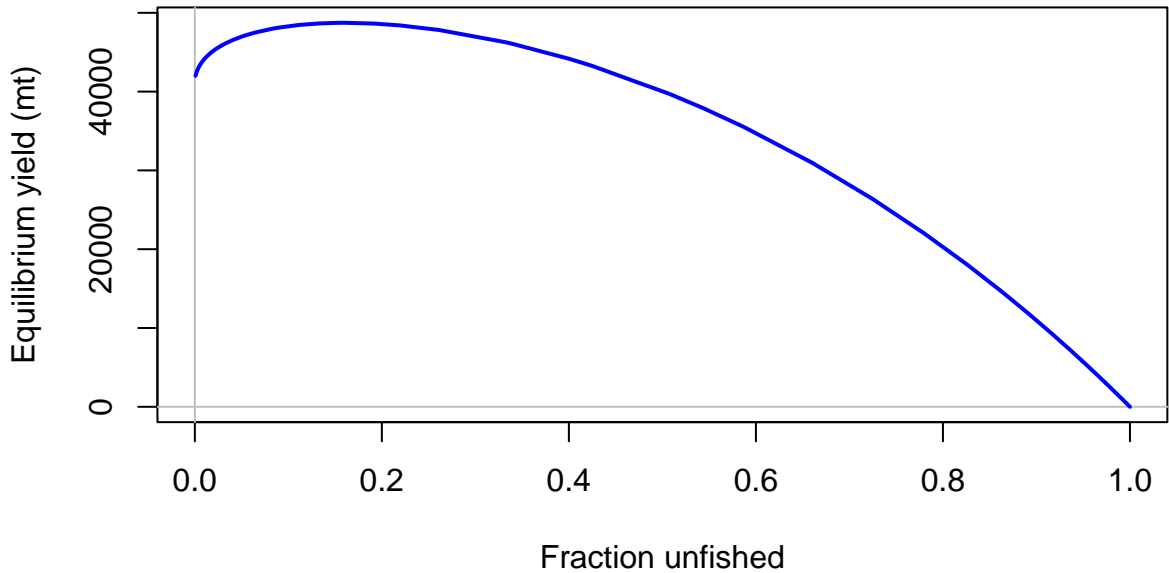
Age

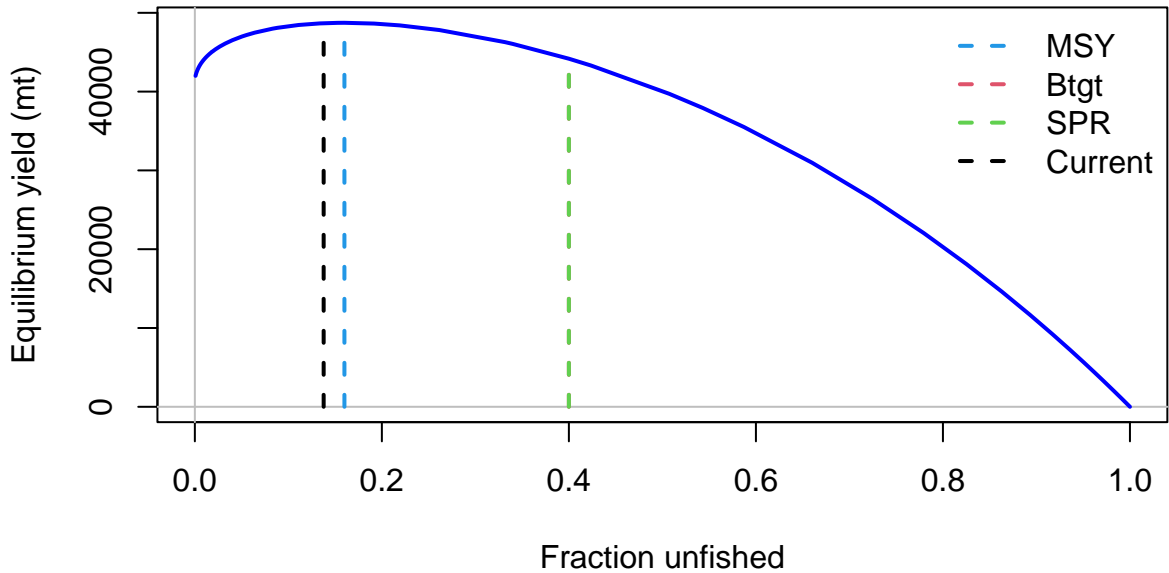


Stdev (Age)



Length (cm)





Surplus production (mt)

60000  
20000  
-20000

0e+00

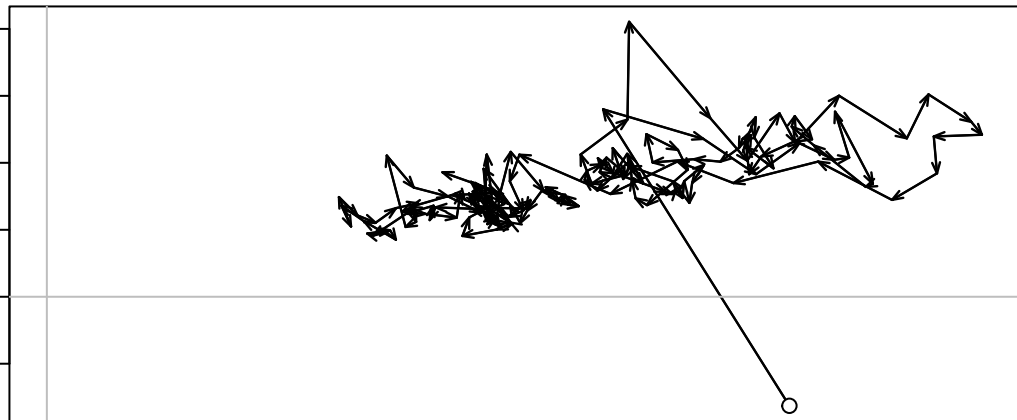
1e+05

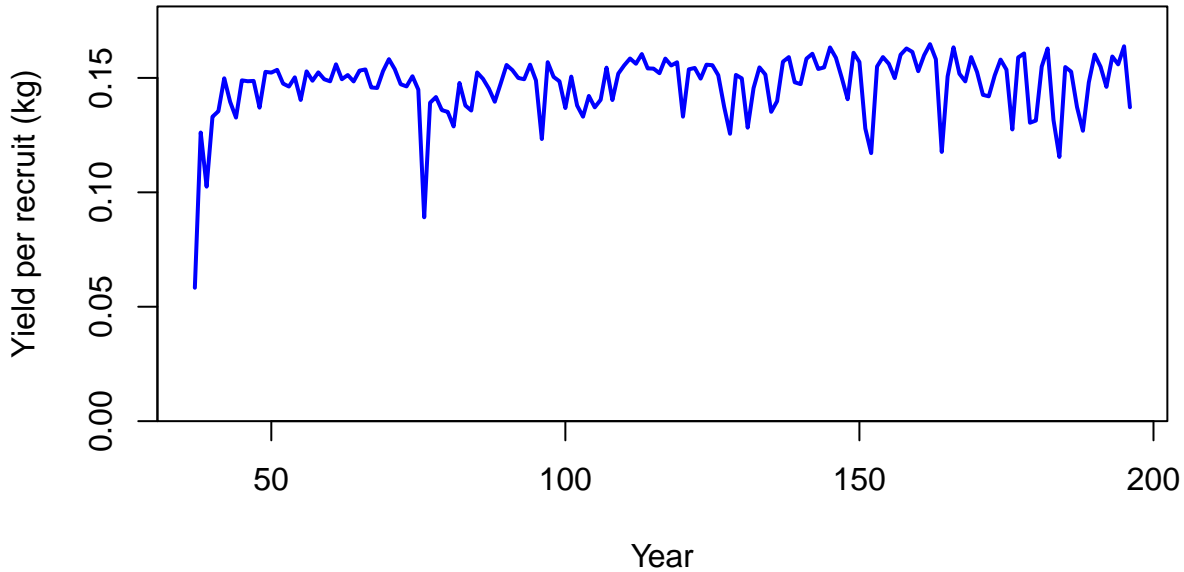
2e+05

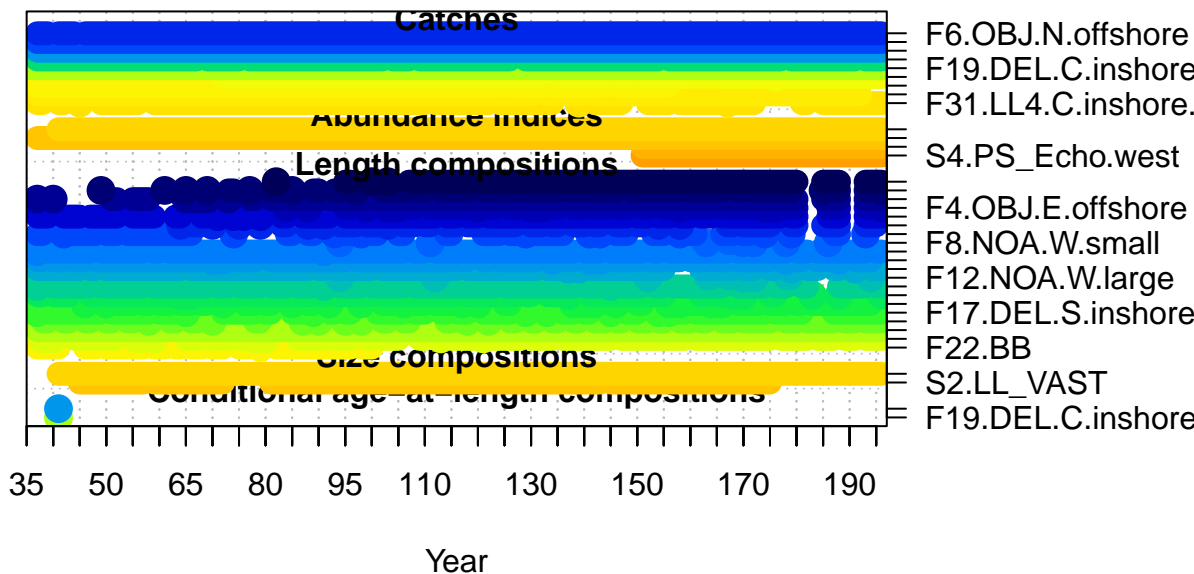
3e+05

4e+05

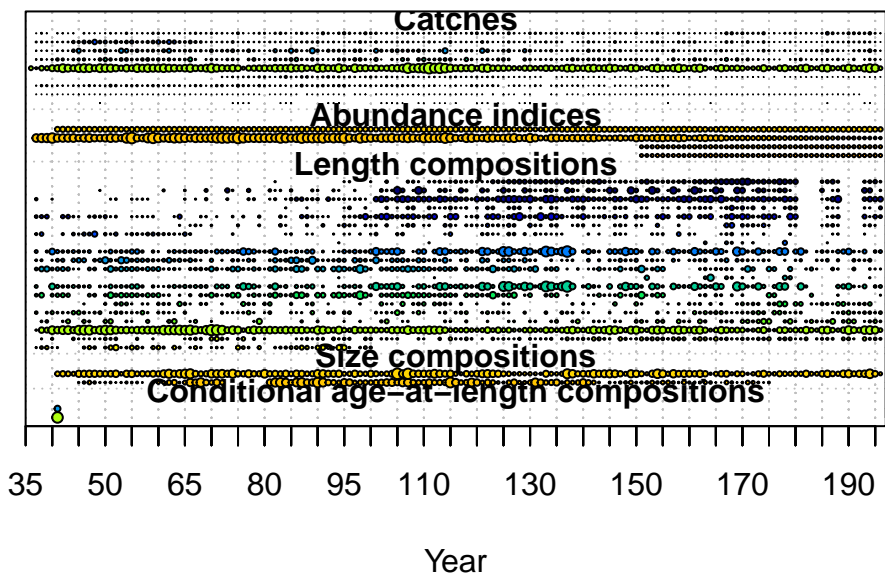
Total biomass (mt)











F6.OBJ.N.offshore

F19.DEL.C.inshore

F31.LL4.C.inshore

S4.PS\_Echo.west

F4.OBJ.E.offshore

F8.NOA.W.small

F12.NOA.W.large

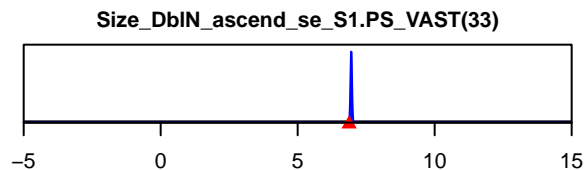
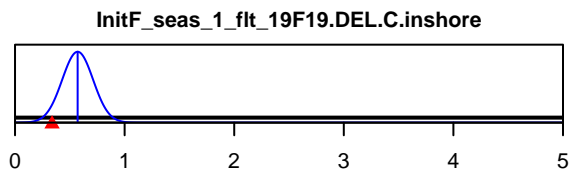
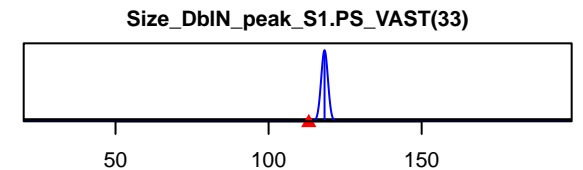
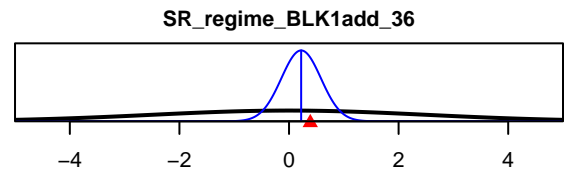
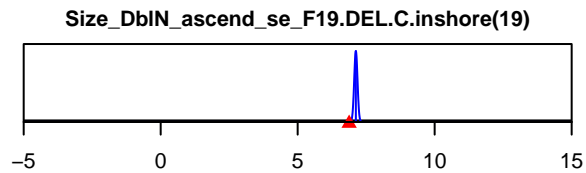
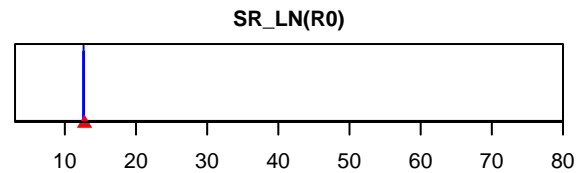
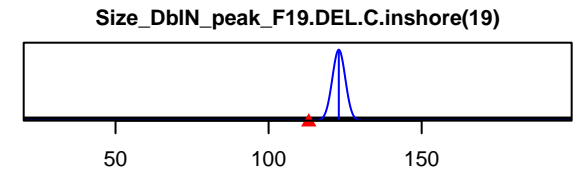
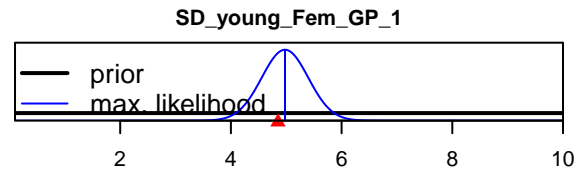
F17.DEL.S.inshore

F22.BB

S2.LL\_VAST

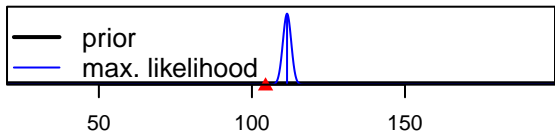
F19.DEL.C.inshore

Density

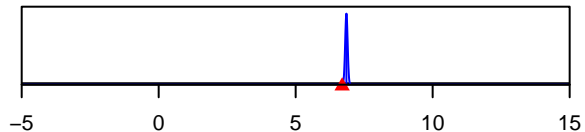


Parameter value

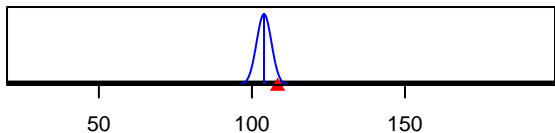
Size\_DbIN\_peak\_F19.DEL.C.inshore(19)\_BLK2repl\_36



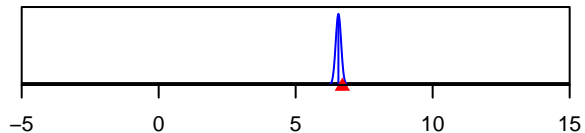
Size\_DbIN\_ascend\_se\_F19.DEL.C.inshore(19)\_BLK2repl\_36



Size\_DbIN\_peak\_F19.DEL.C.inshore(19)\_BLK2repl\_111

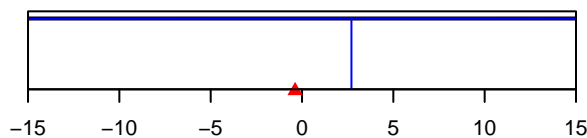


Size\_DbIN\_ascend\_se\_F19.DEL.C.inshore(19)\_BLK2repl\_111

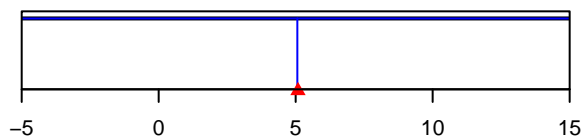


Density

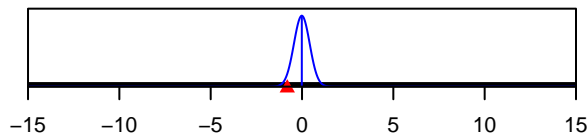
Size\_DbIN\_top\_logit\_F19.DEL.C.inshore(19)\_BLK2repl\_36



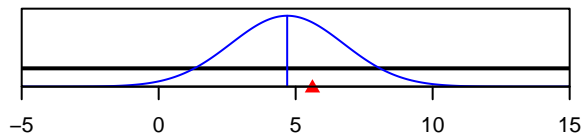
Size\_DbIN\_descend\_se\_F19.DEL.C.inshore(19)\_BLK2repl\_36



Size\_DbIN\_top\_logit\_F19.DEL.C.inshore(19)\_BLK2repl\_111

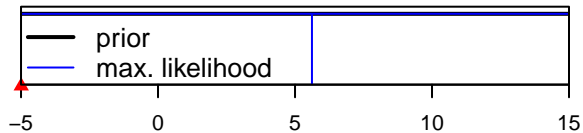


Size\_DbIN\_descend\_se\_F19.DEL.C.inshore(19)\_BLK2repl\_111

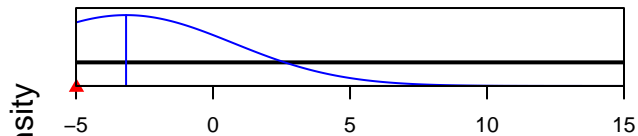


Parameter value

Size\_DbIN\_end\_logit\_F19.DEL.C.inshore(19)\_BLK2repl\_36



Size\_DbIN\_end\_logit\_F19.DEL.C.inshore(19)\_BLK2repl\_111



Density

Parameter value