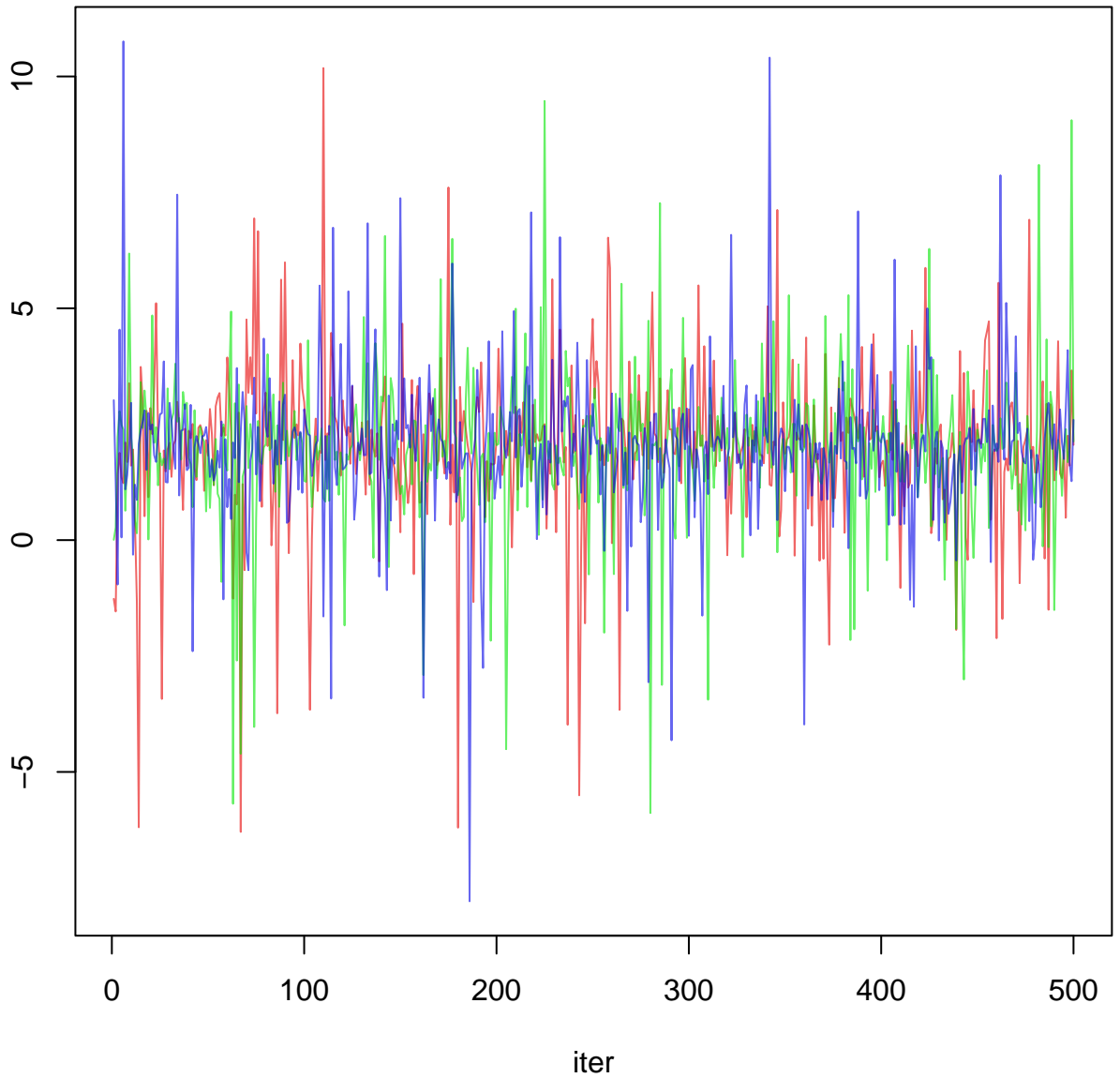
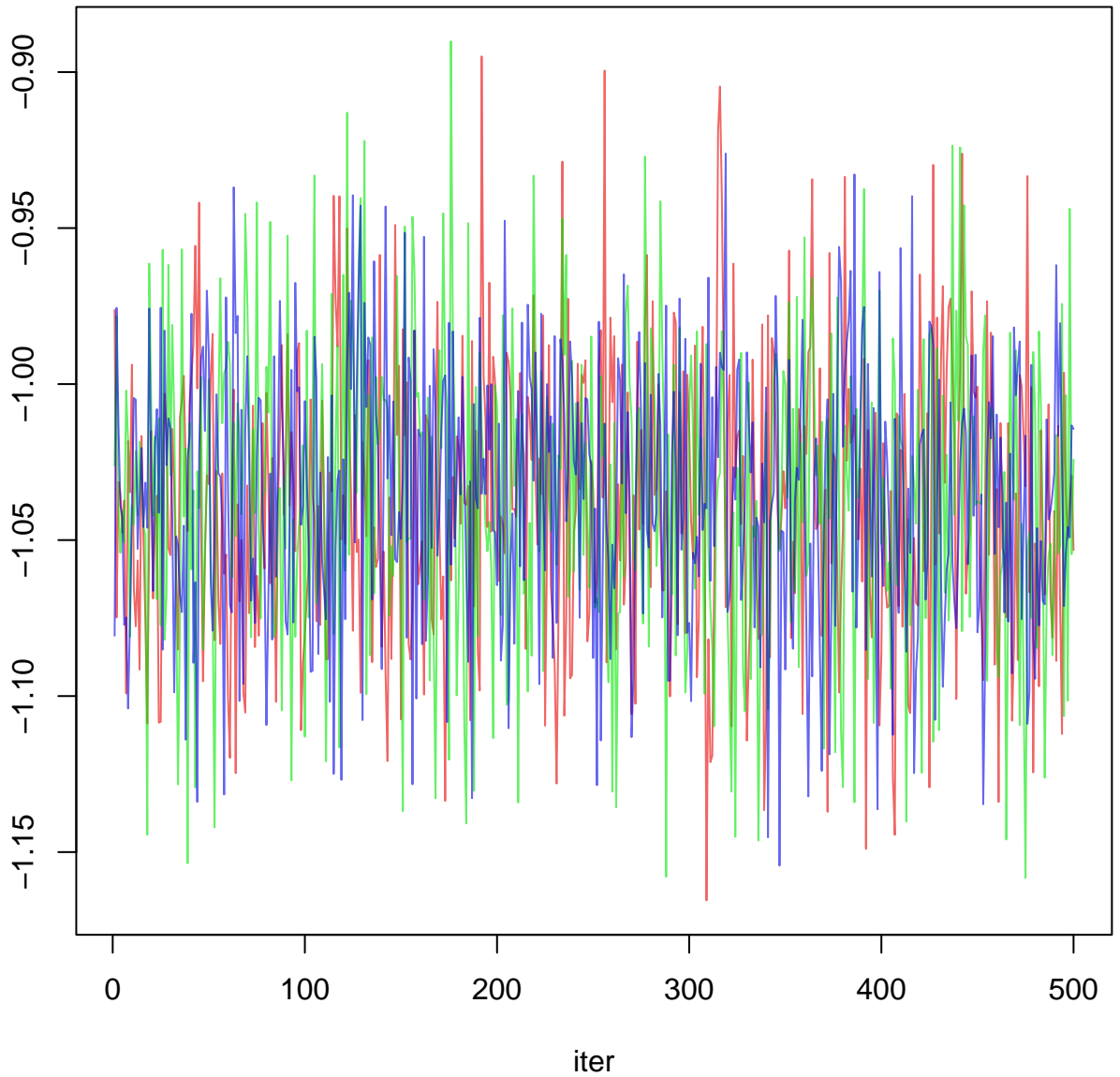


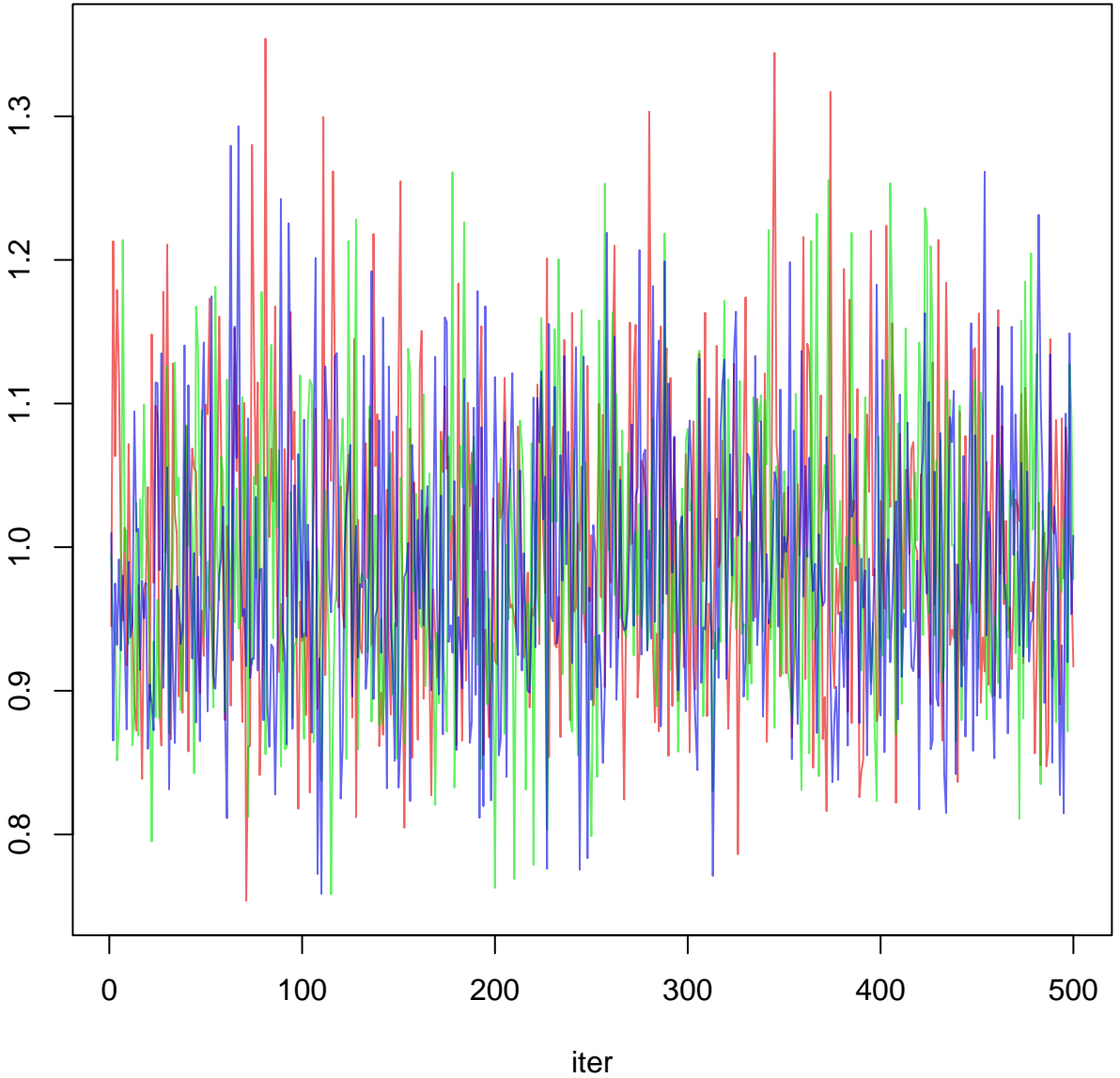
**b0**



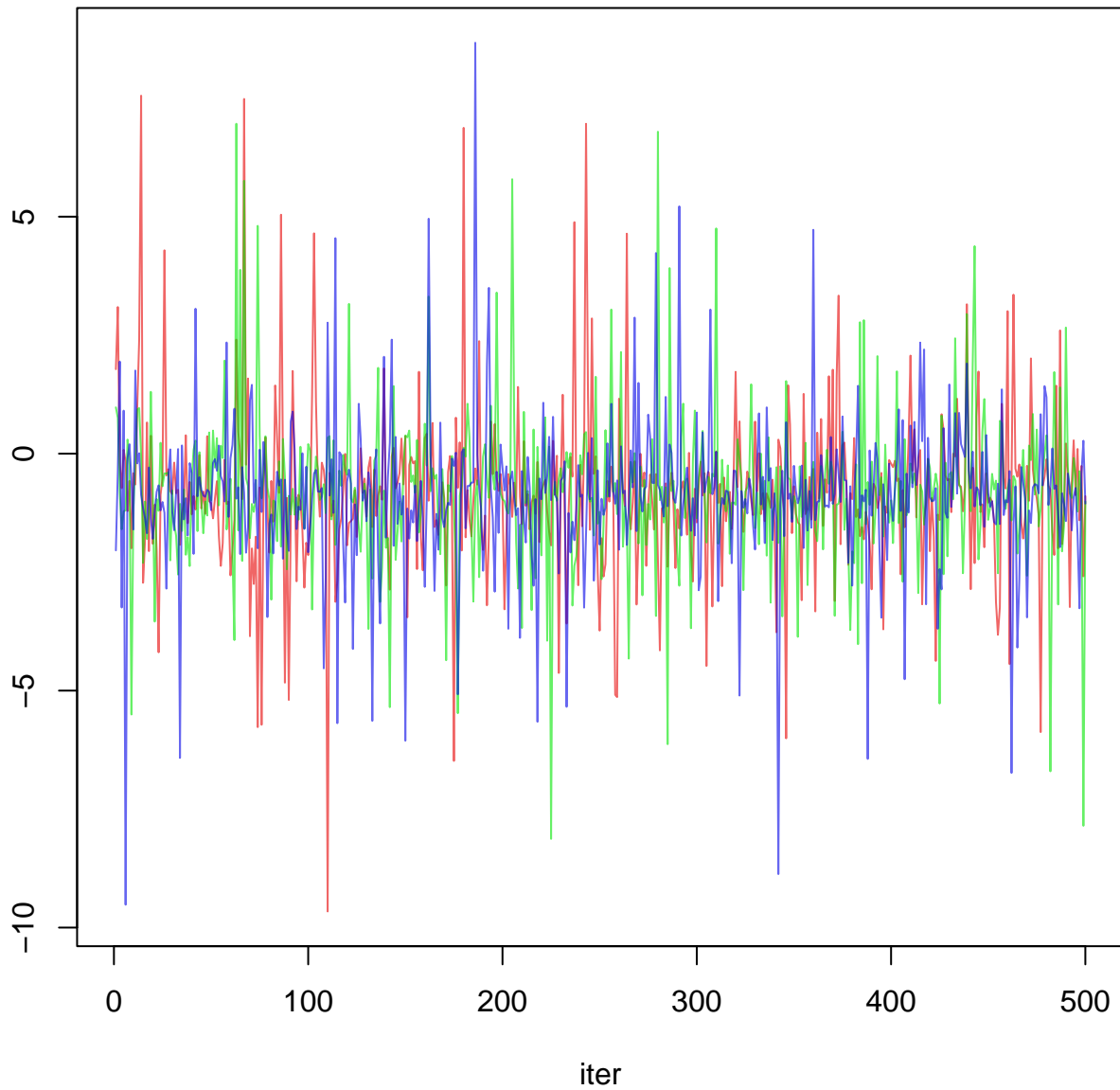
**b1**



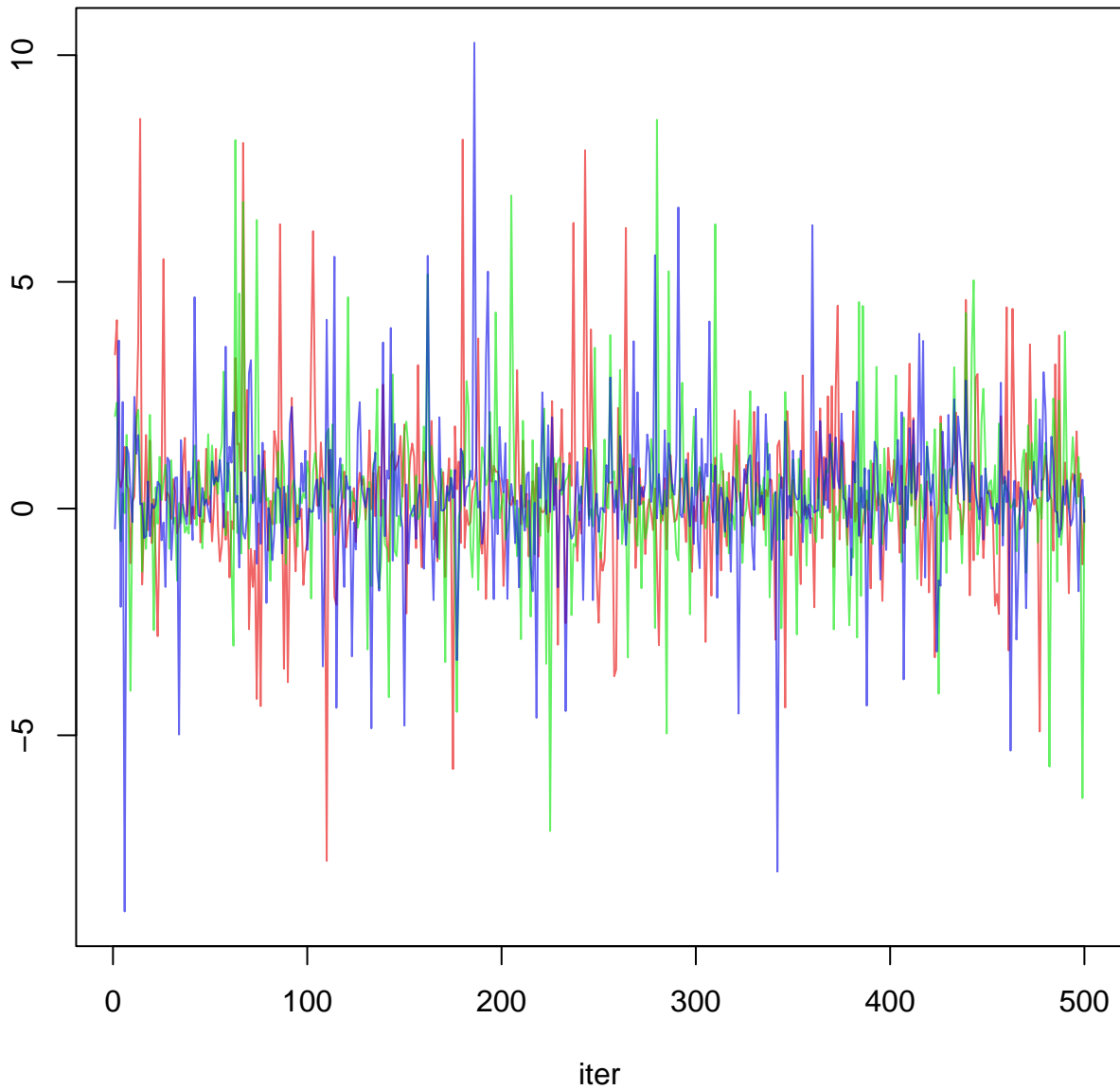
**sig**



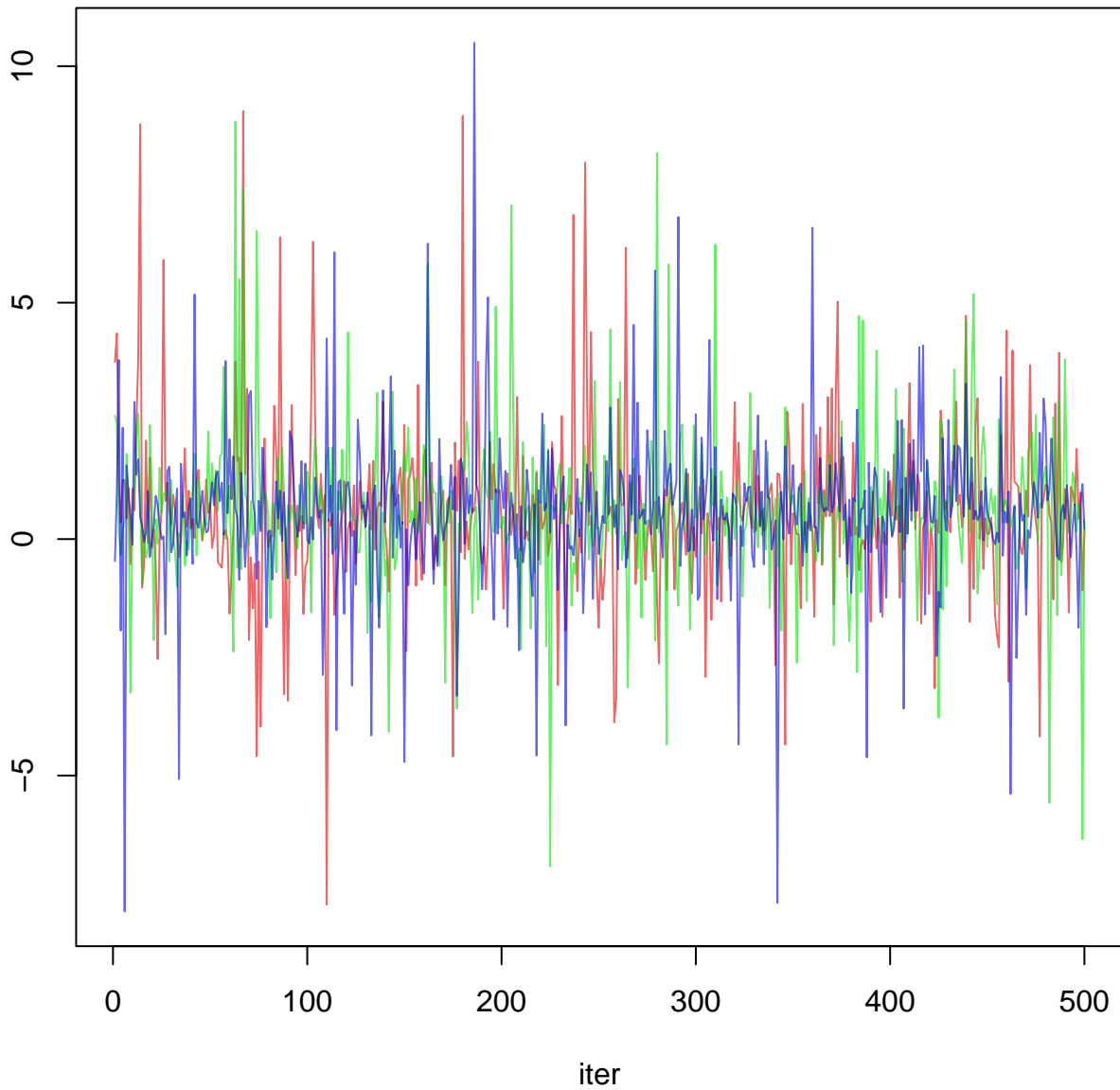
a[1]



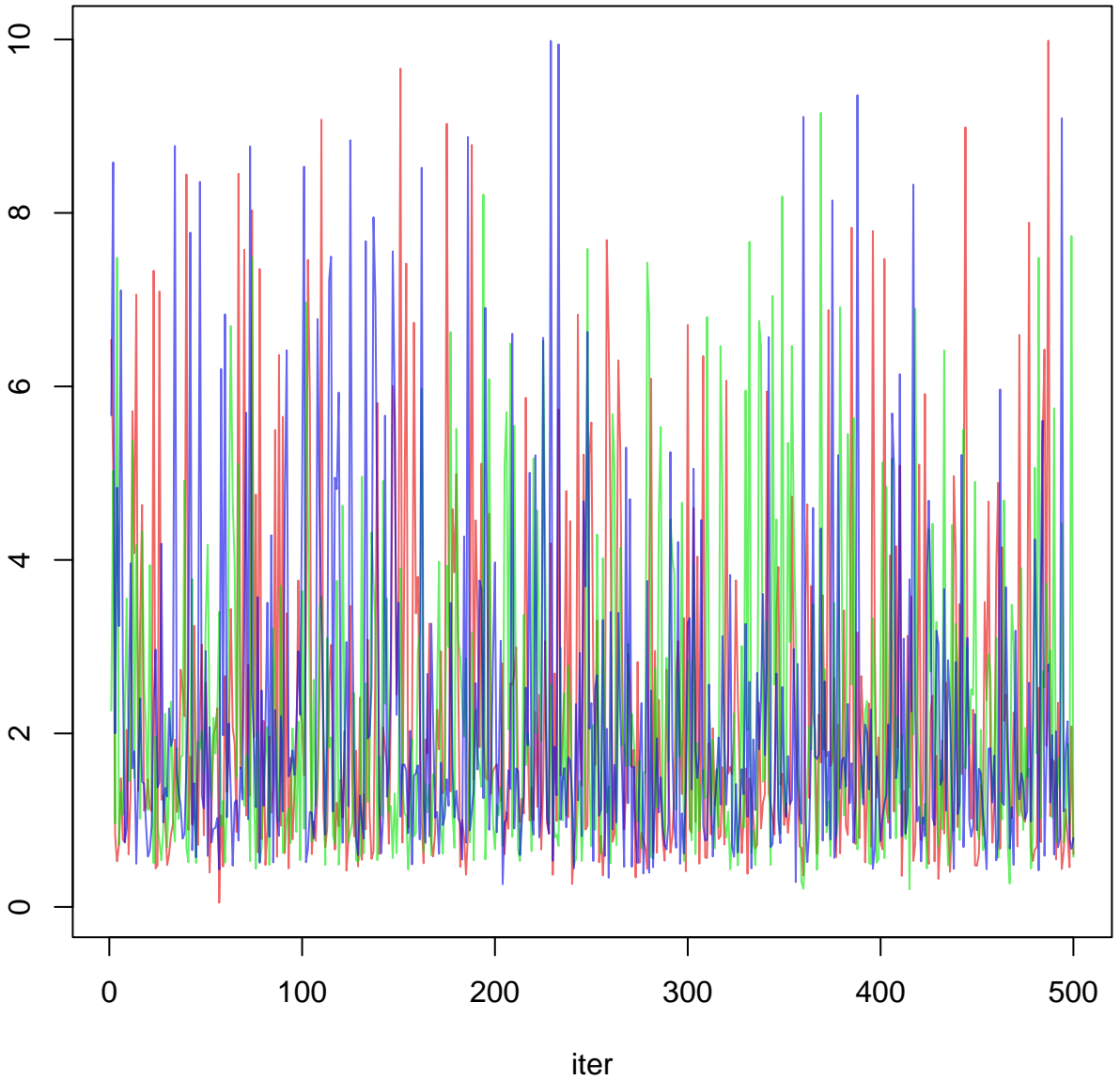
a[2]



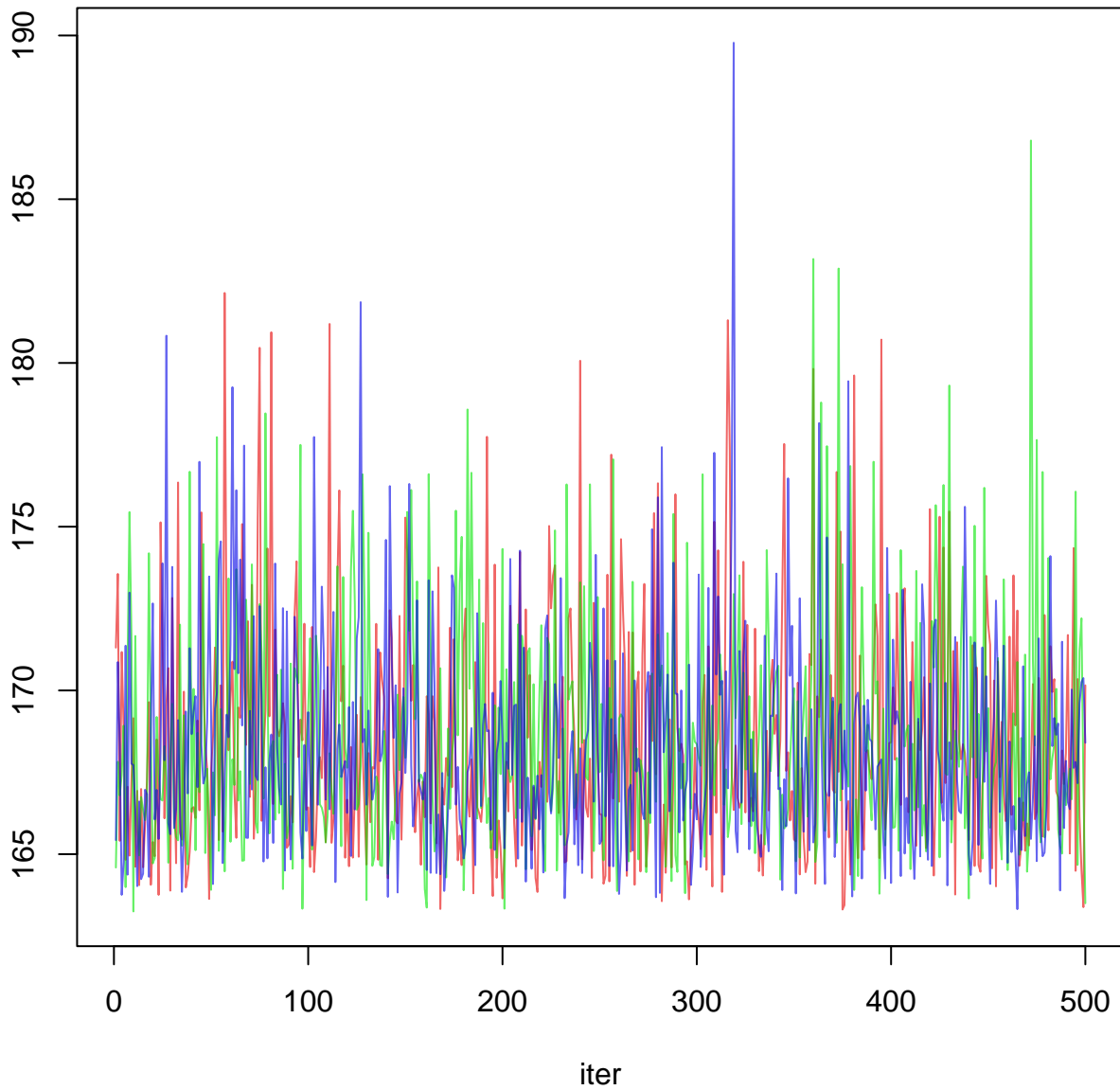
**a[3]**



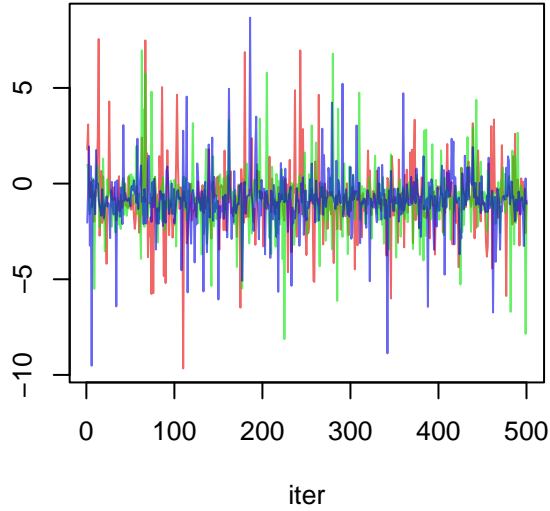
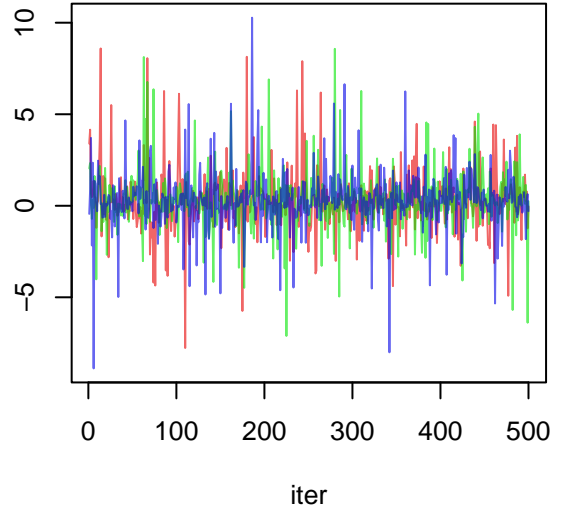
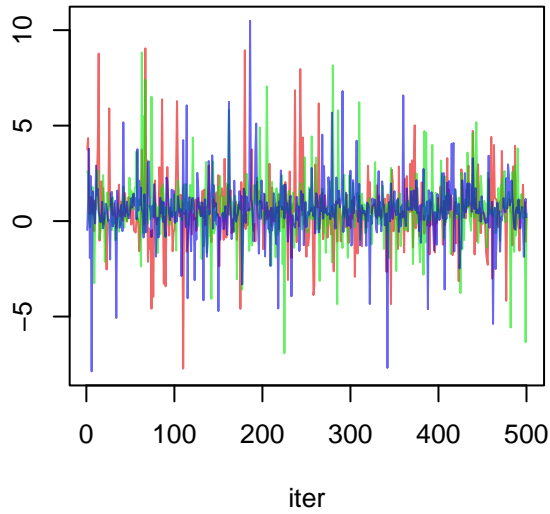
sig\_a



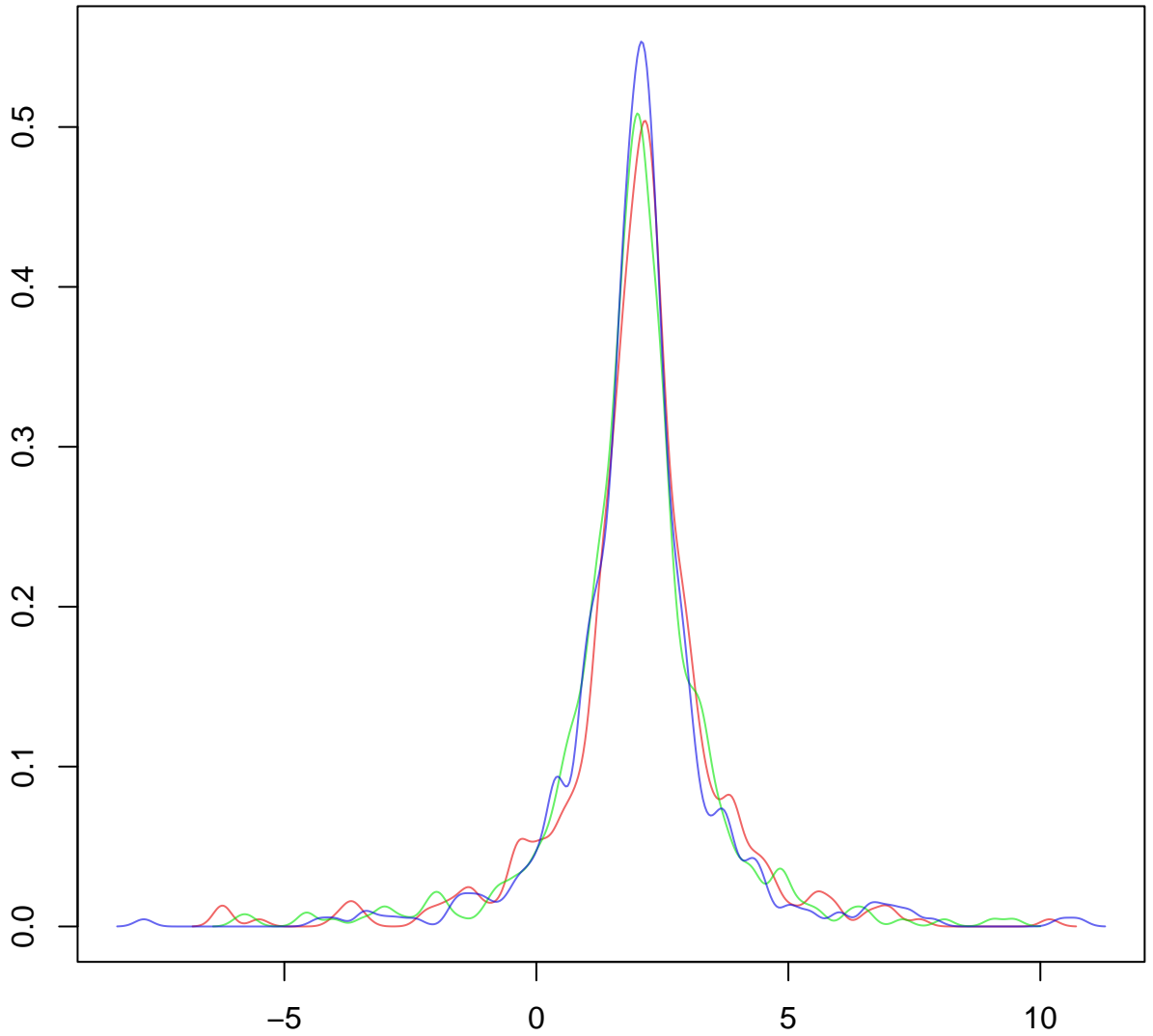
# deviance



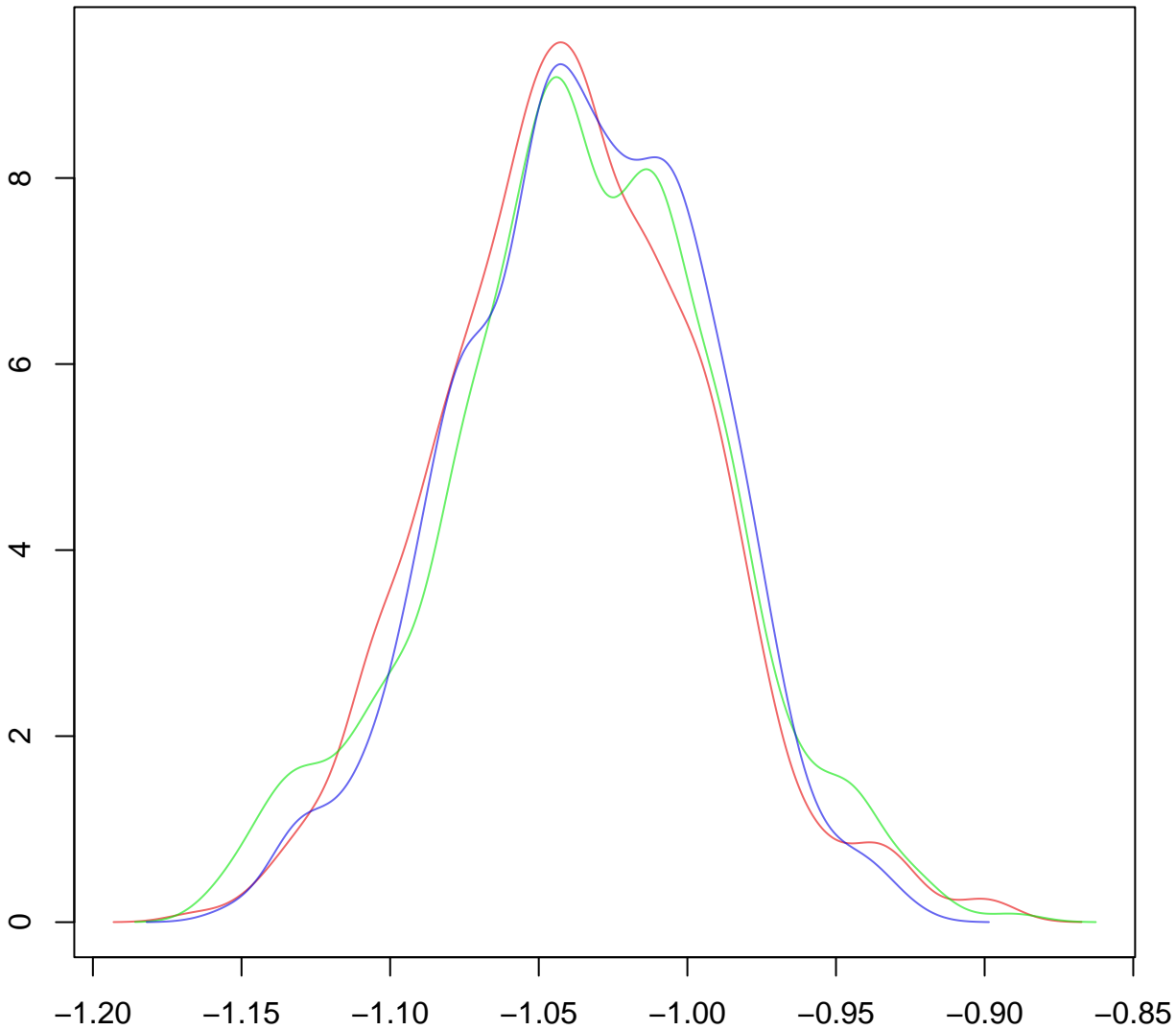


**a[1]****a[2]****a[3]**

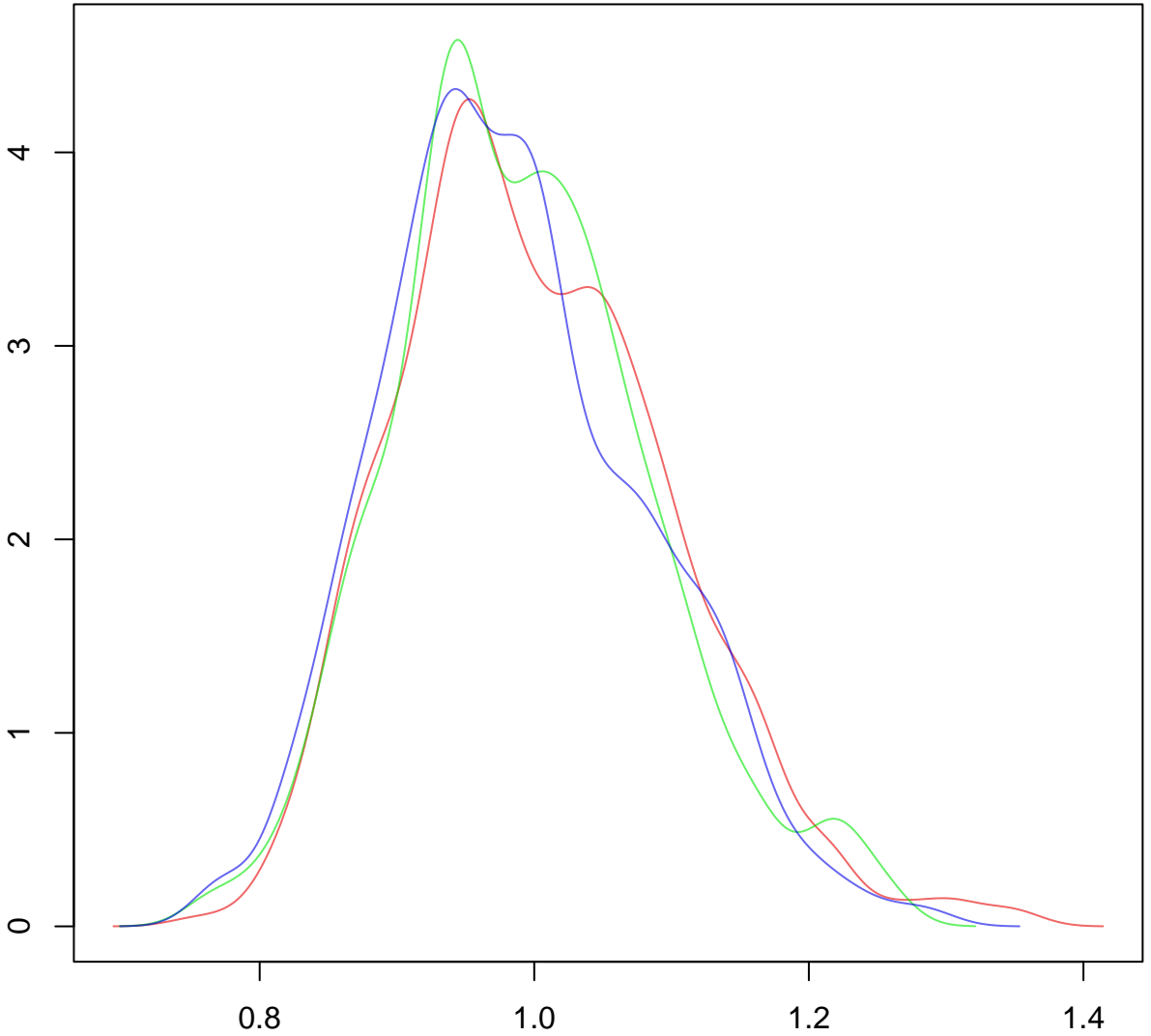
**b0**



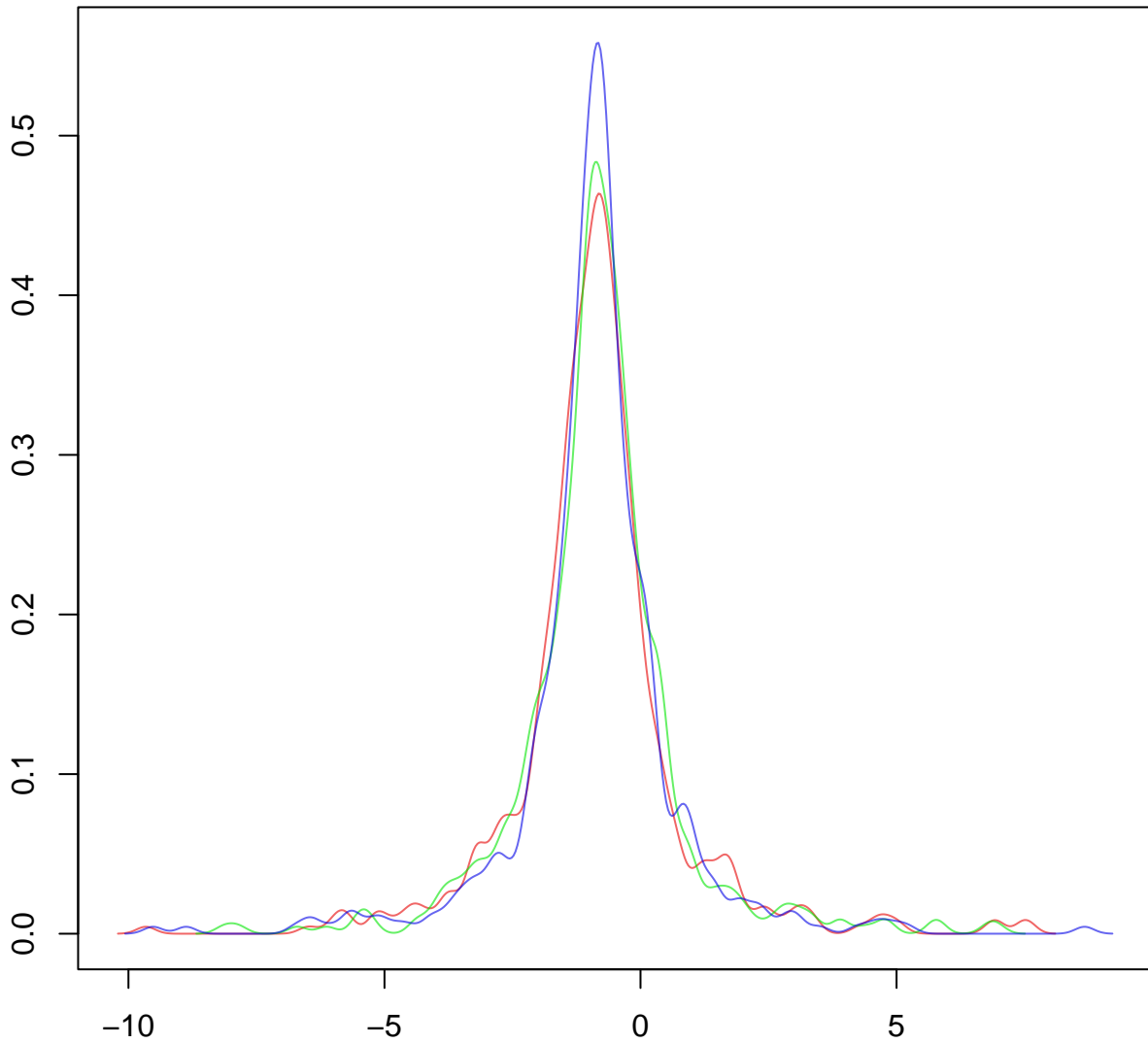
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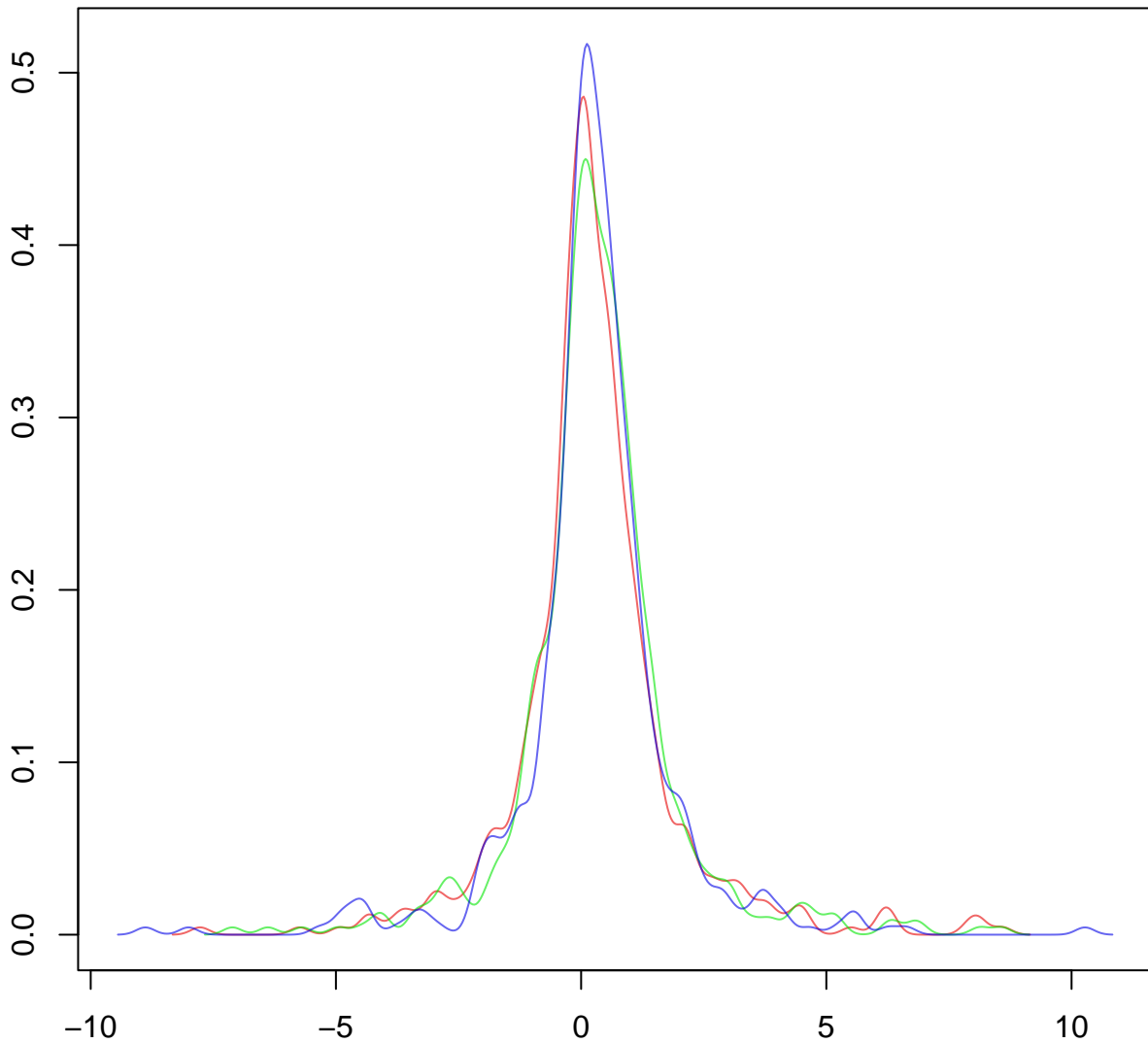
**sig**



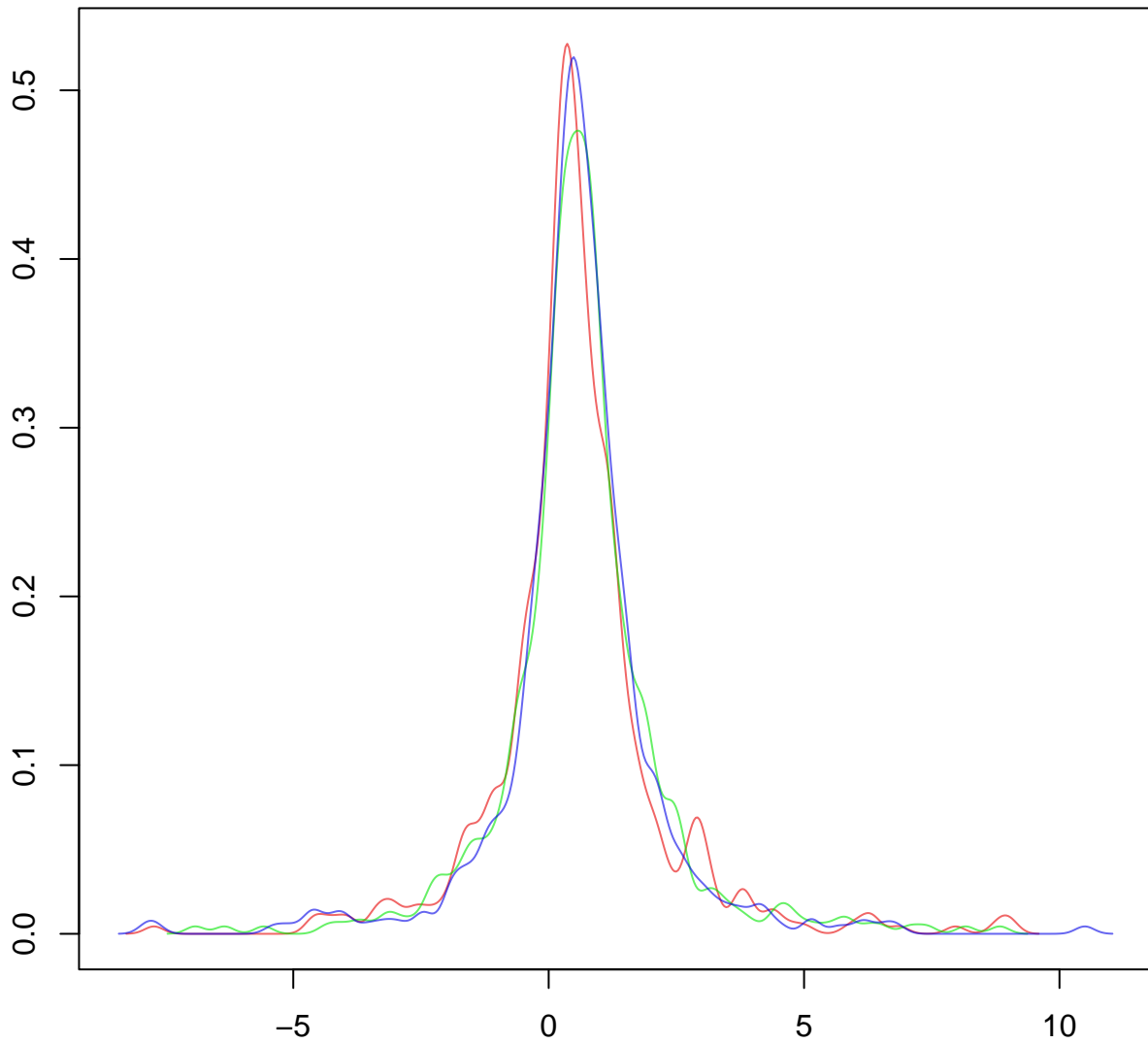
a[1]



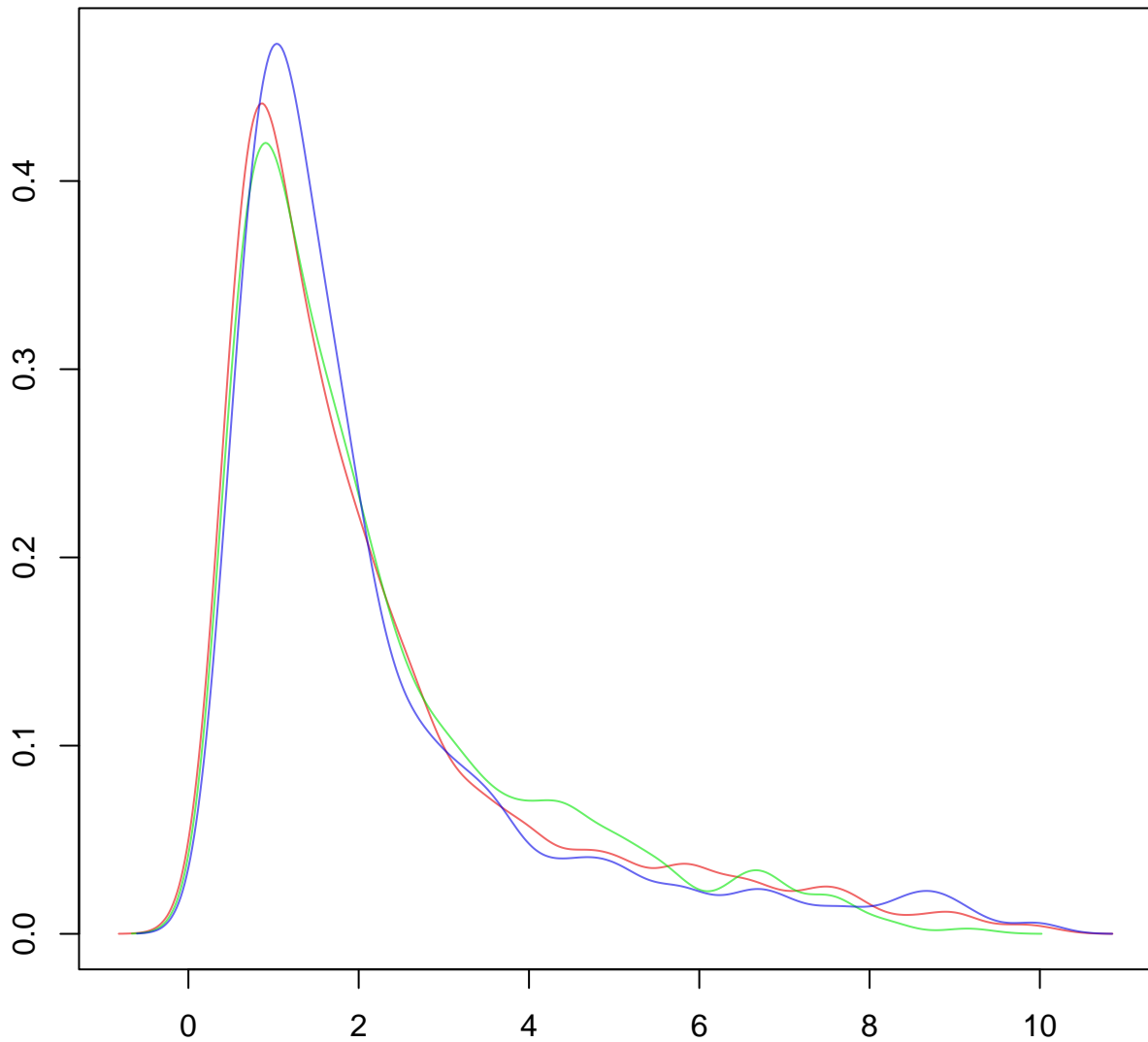
**a[2]**



**a[3]**

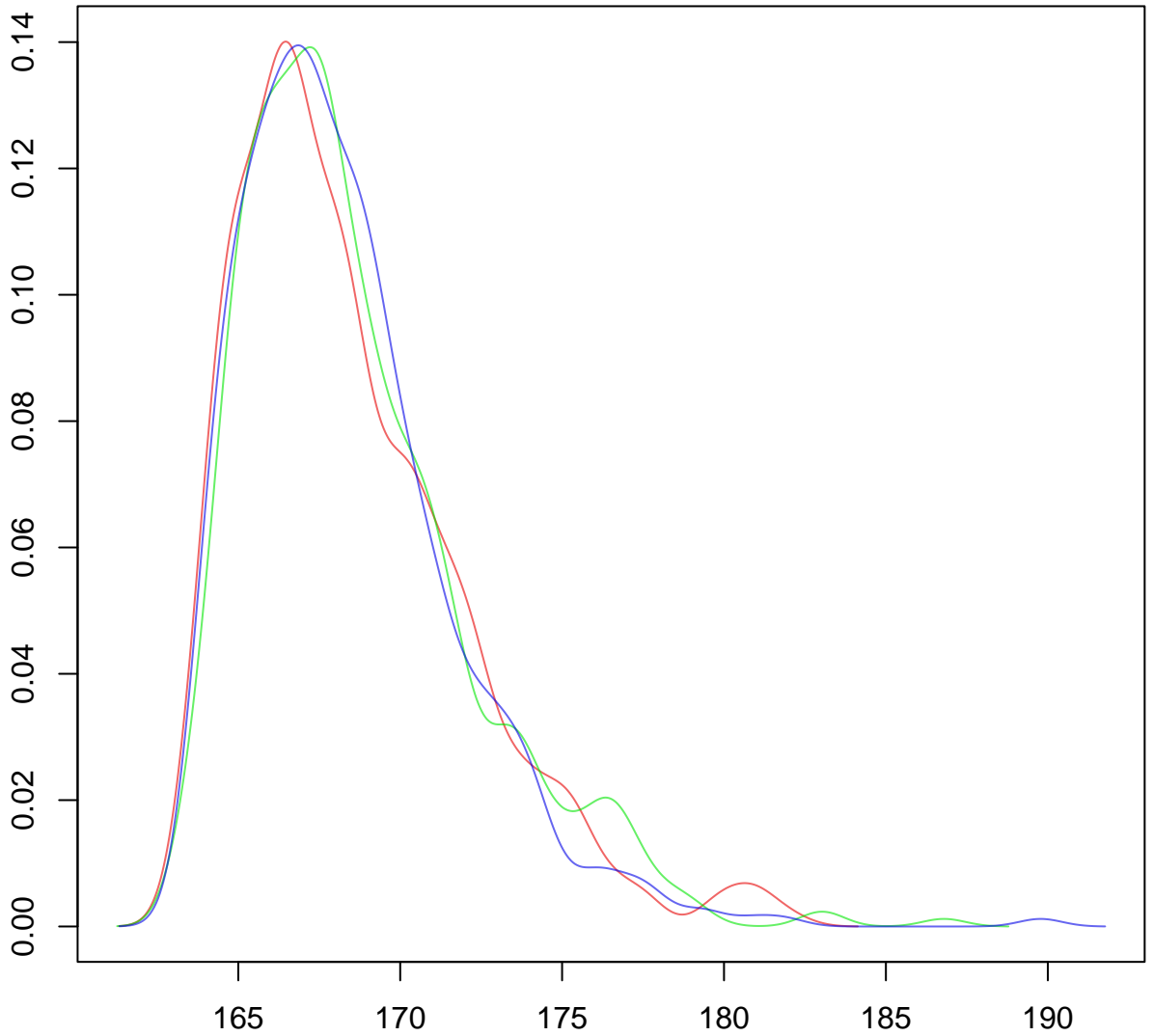


sig\_a

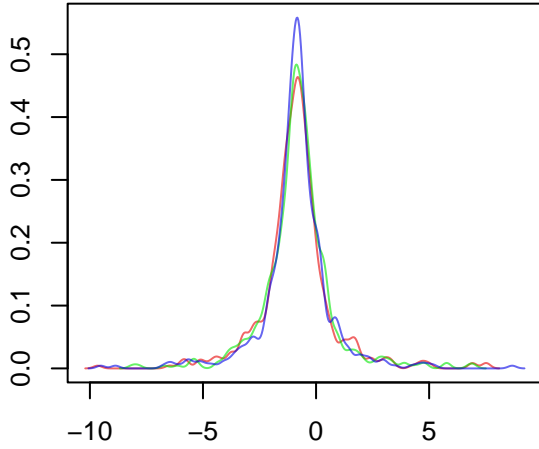




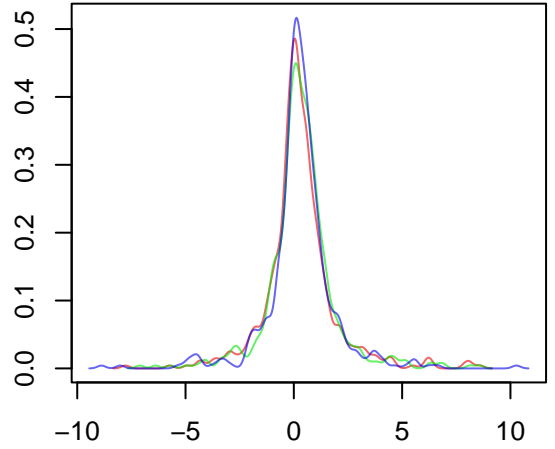
# deviance



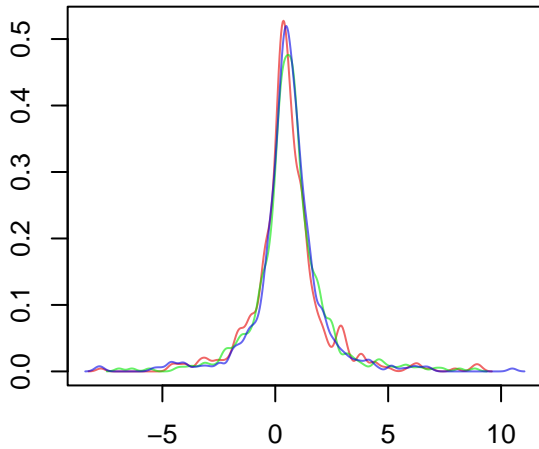
**a[1]**



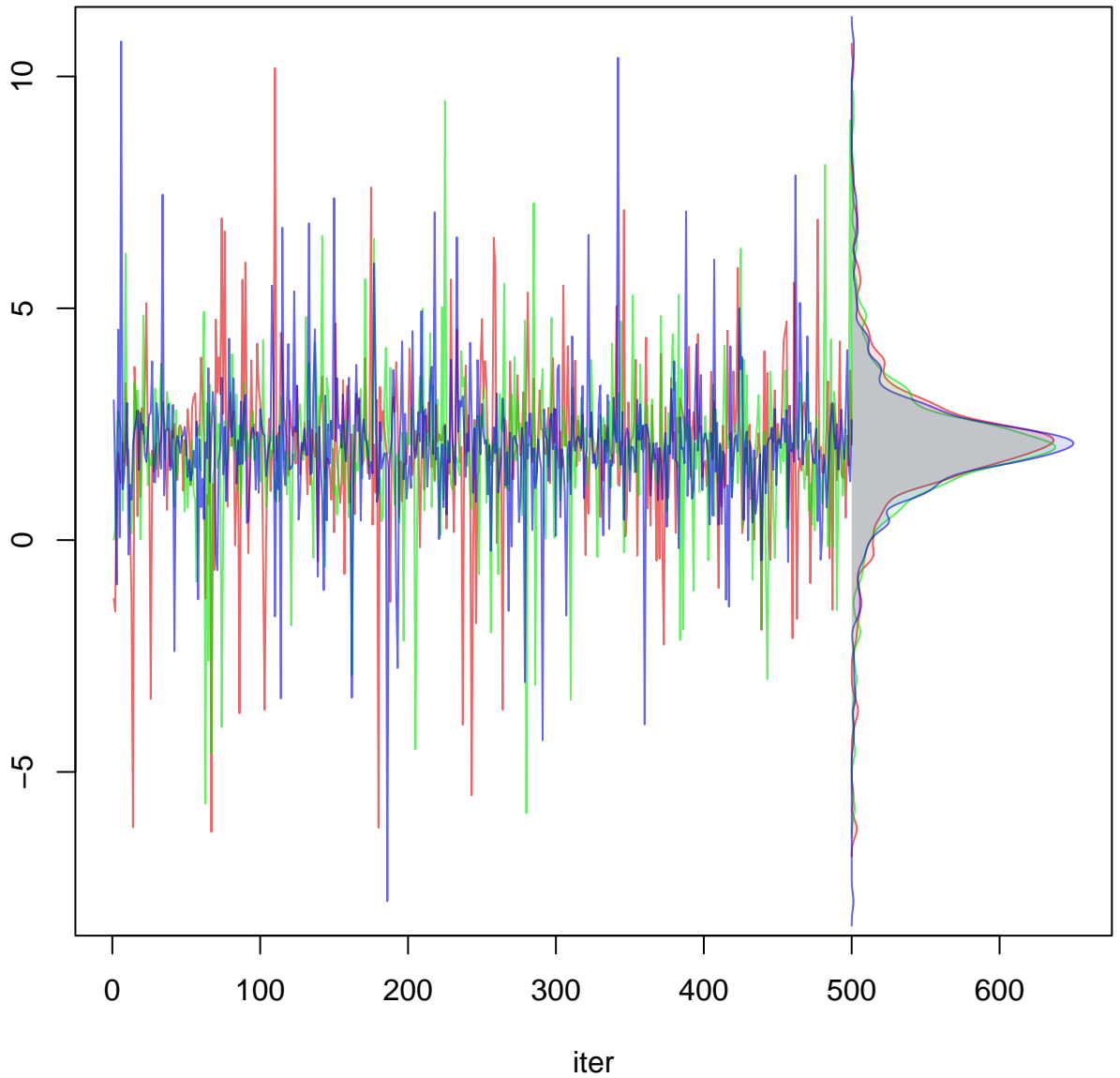
**a[2]**



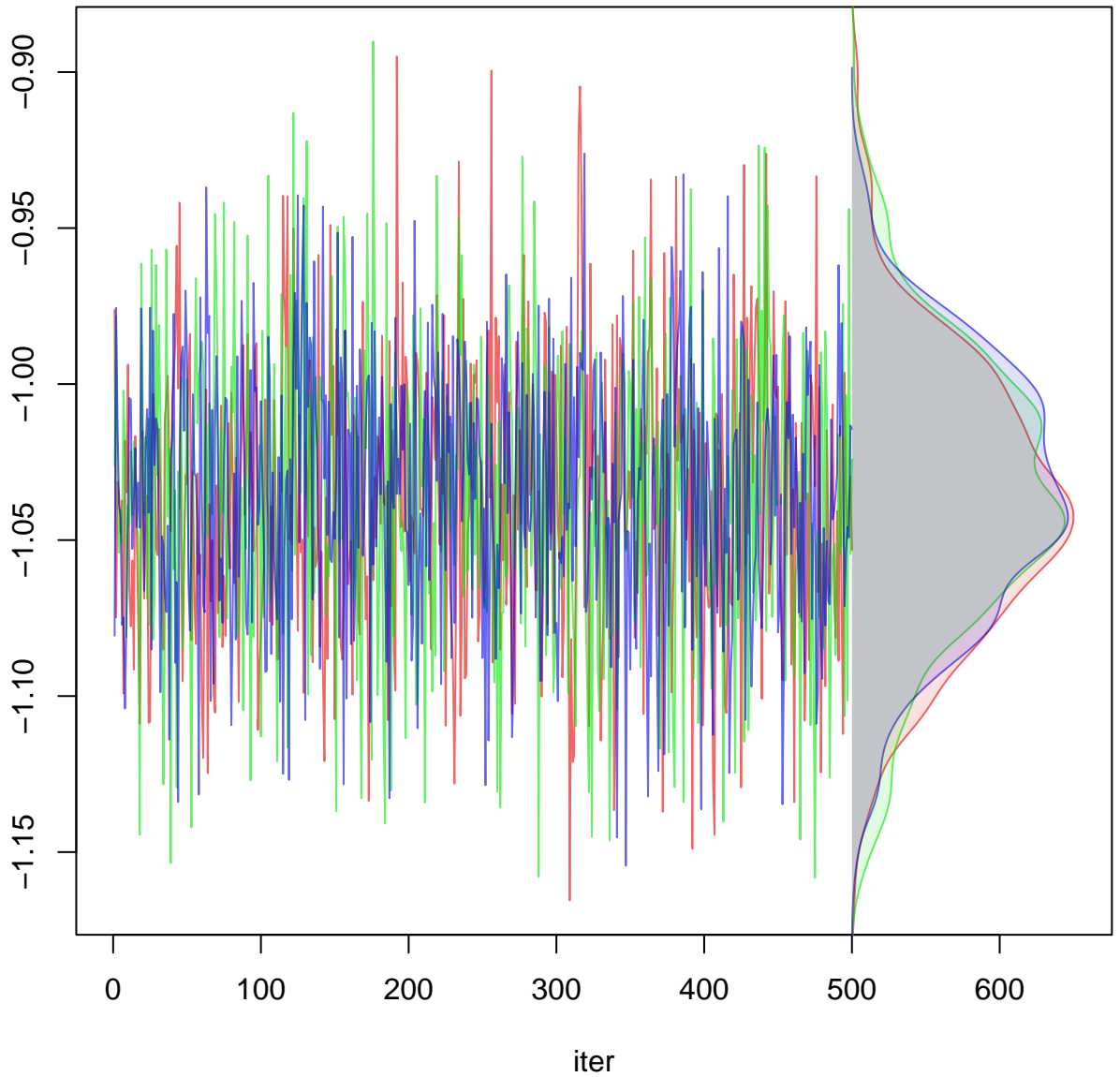
**a[3]**



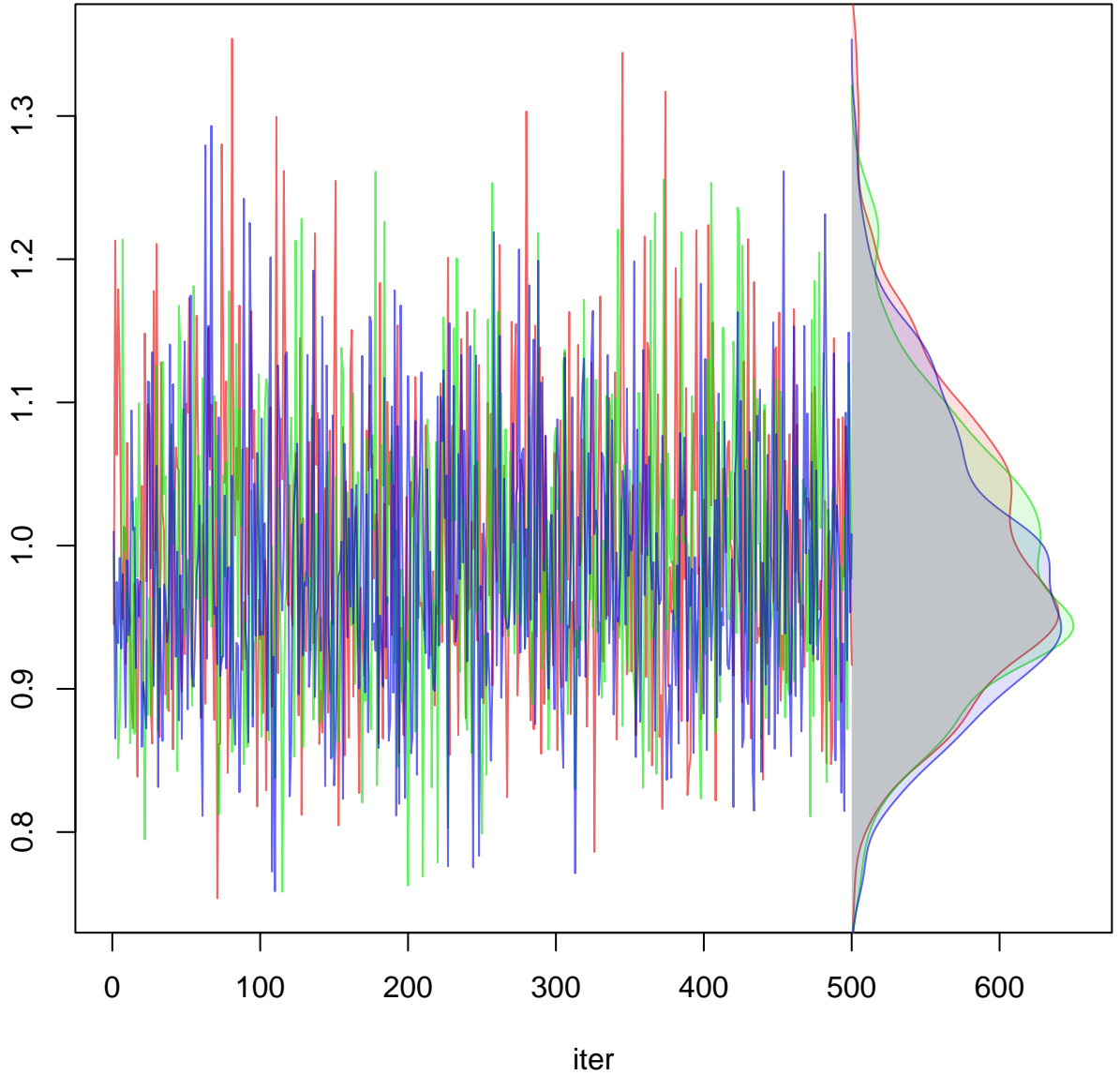
**b0**



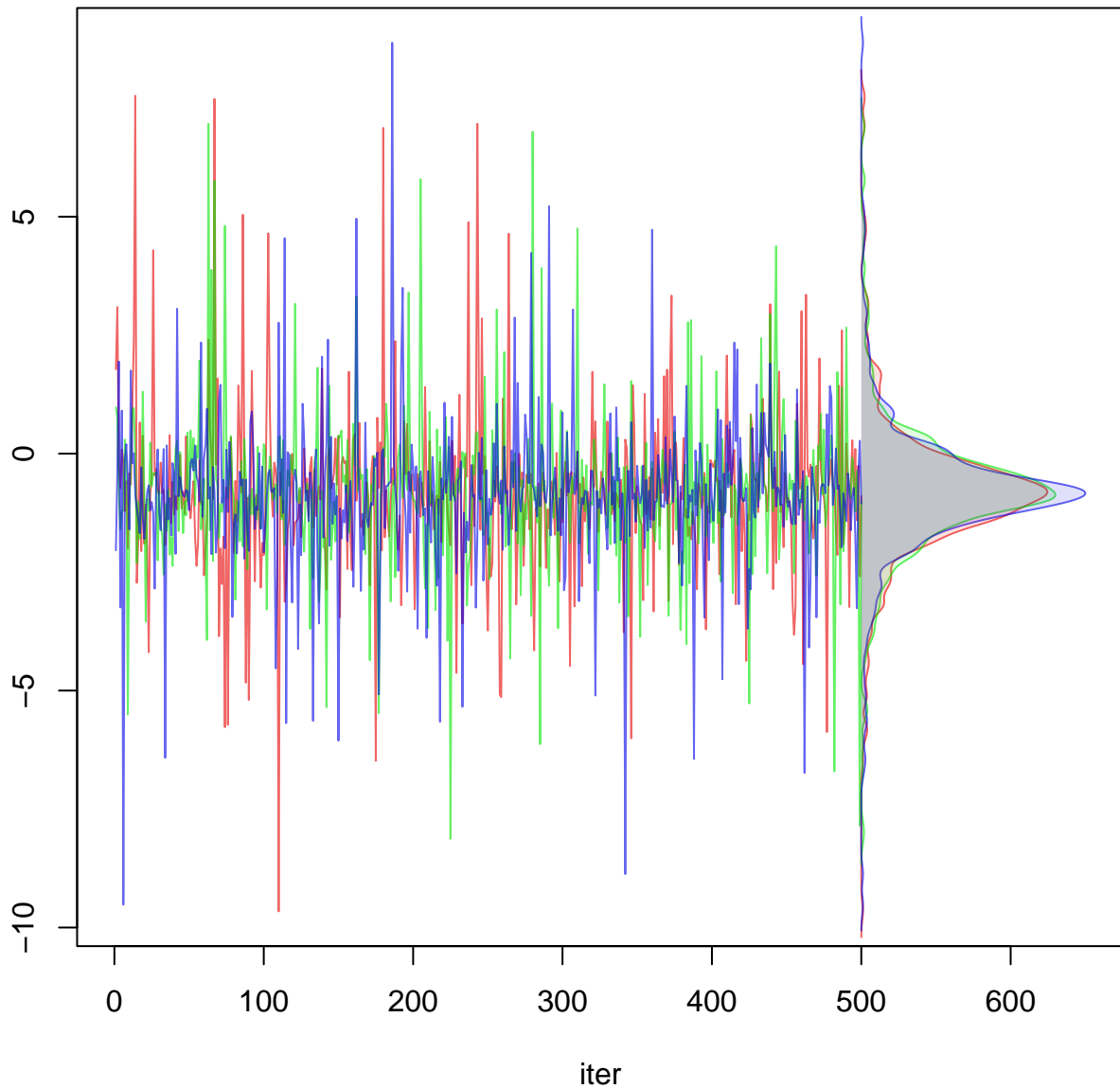
**b1**



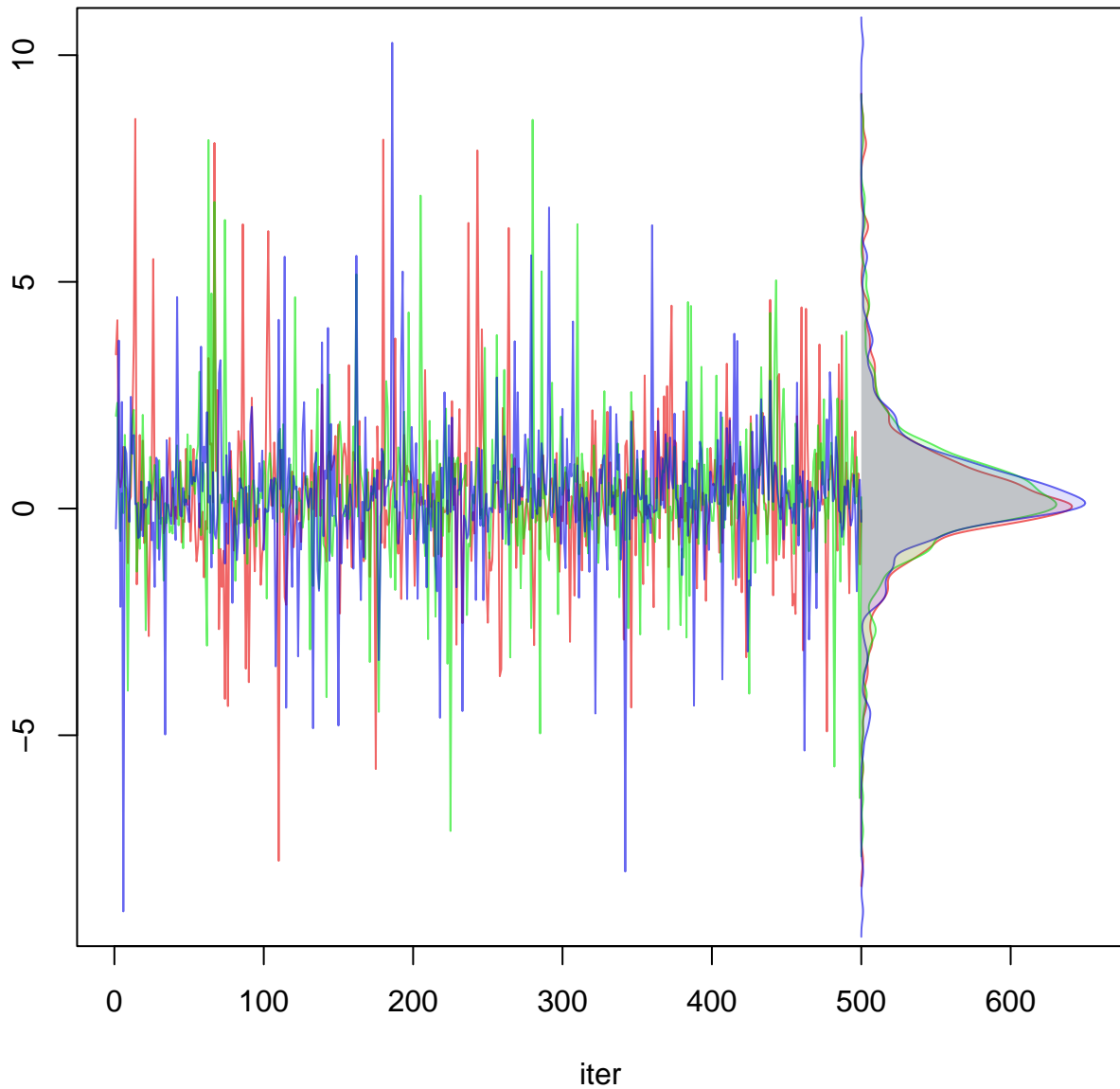
**sig**



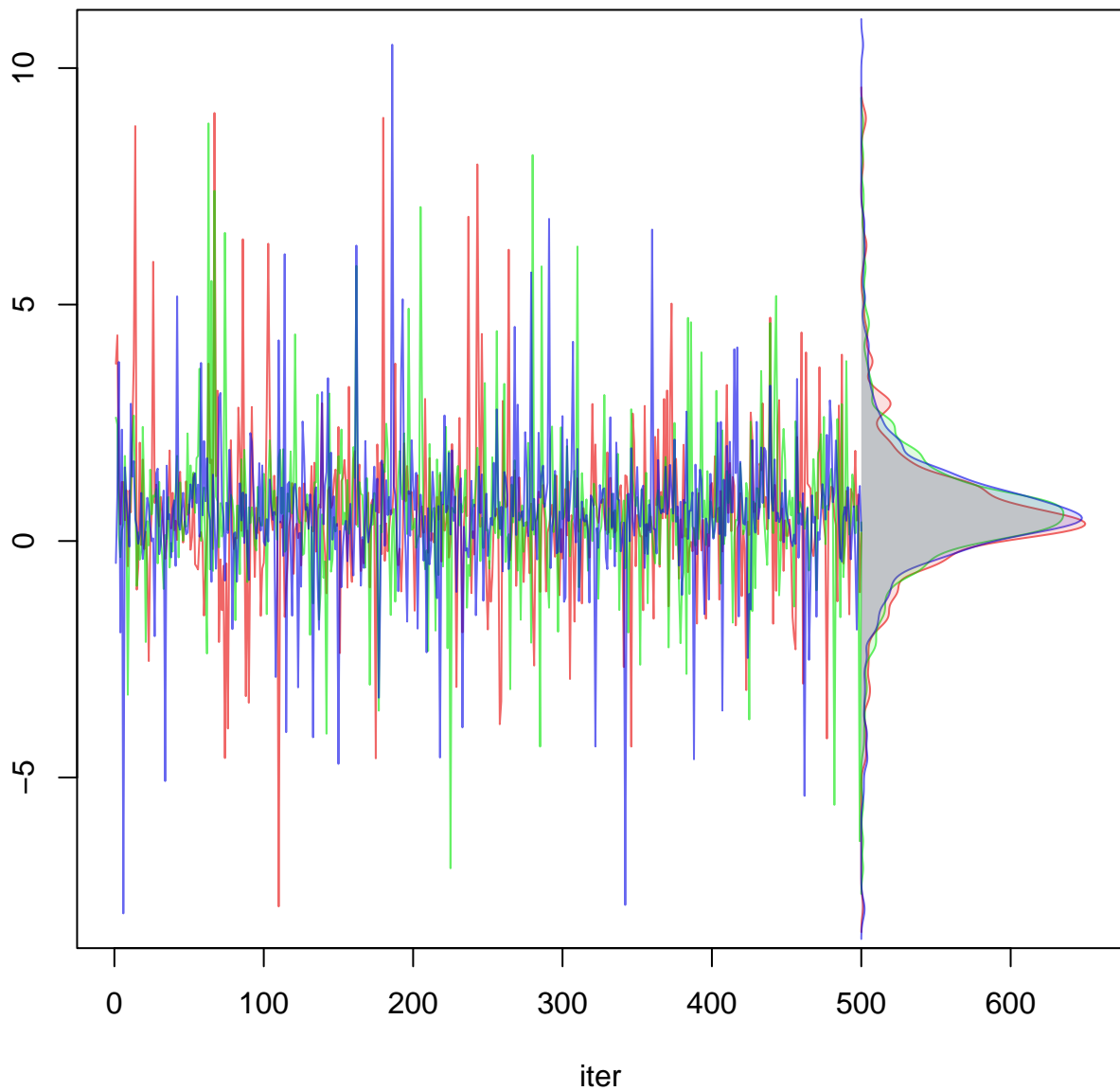
a[1]



a[2]

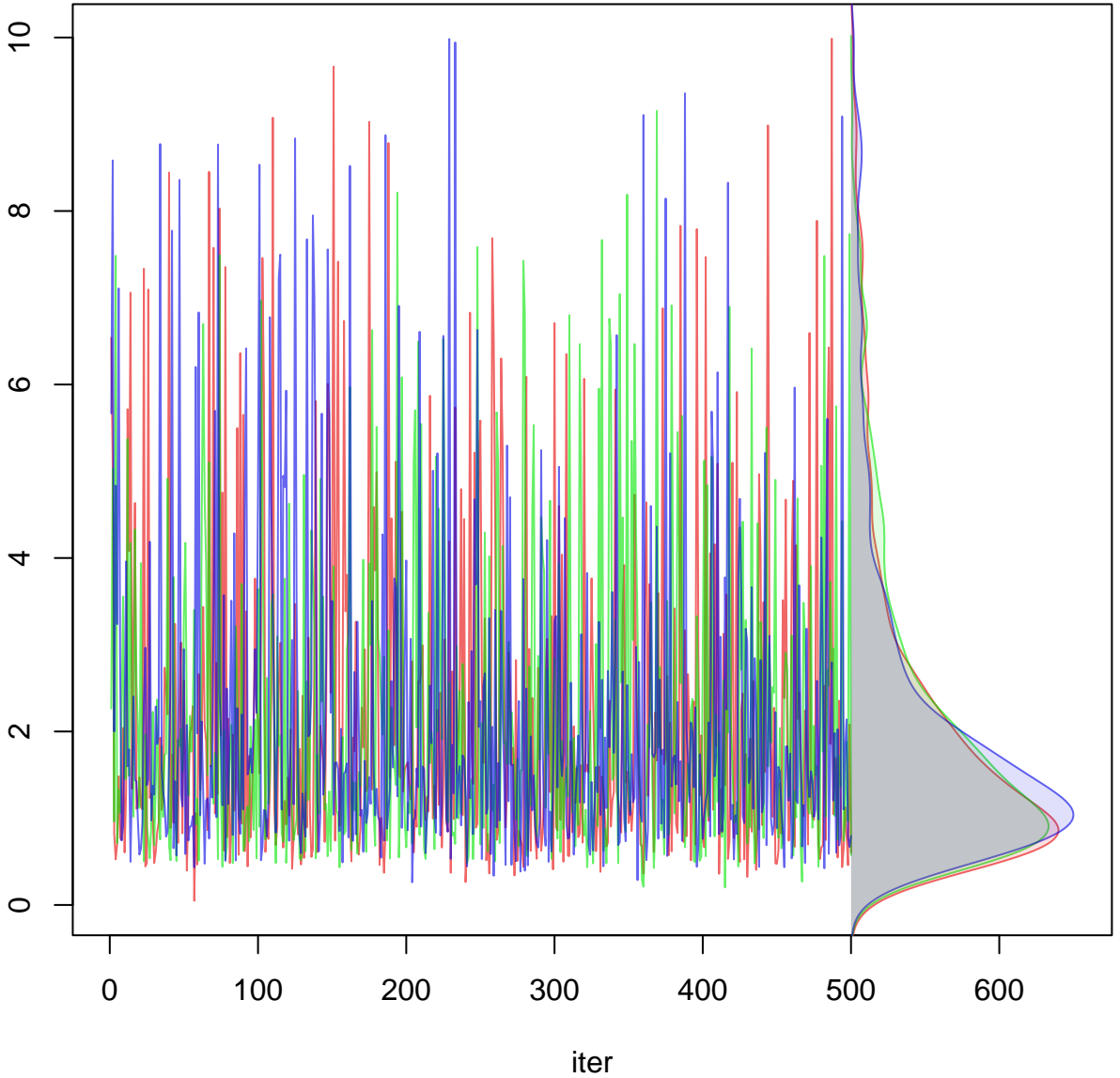


**a[3]**

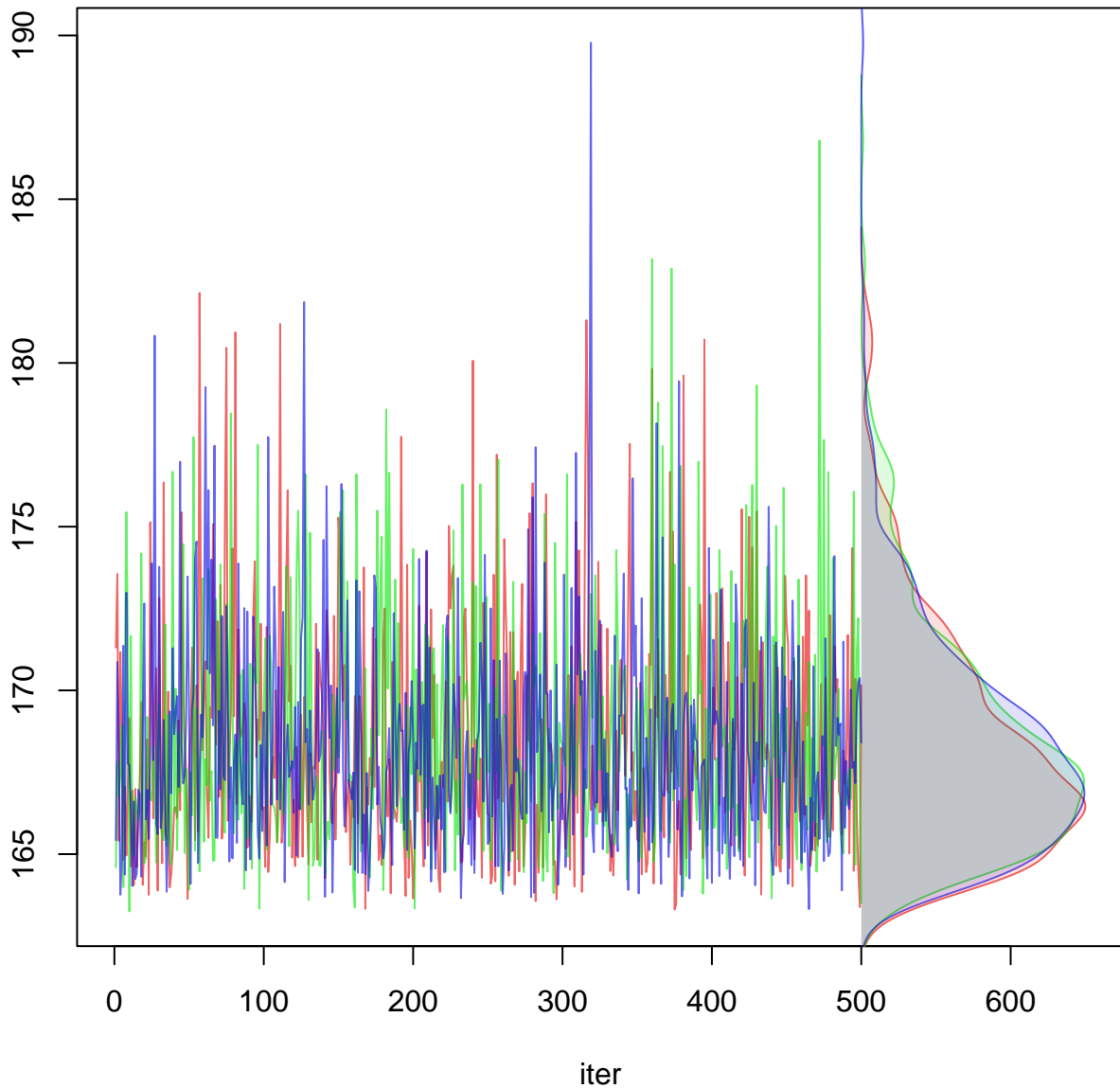


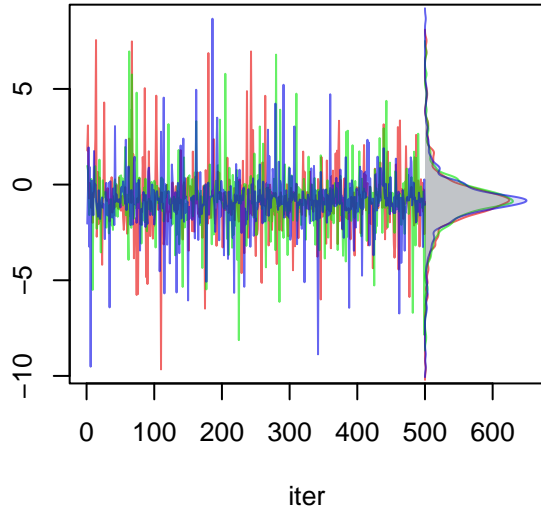
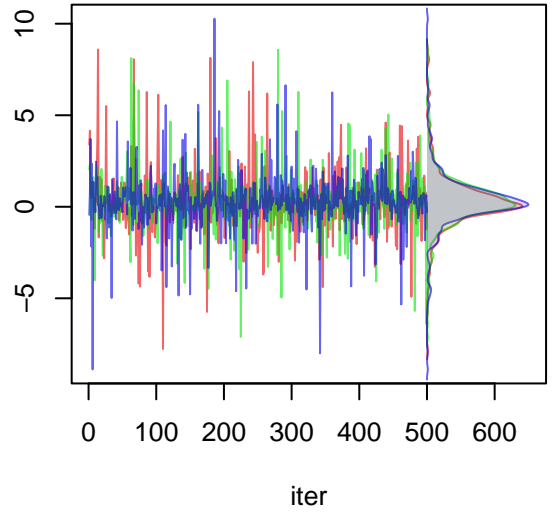
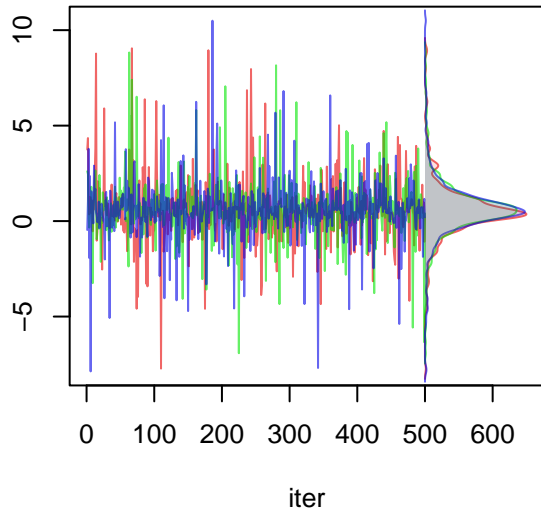


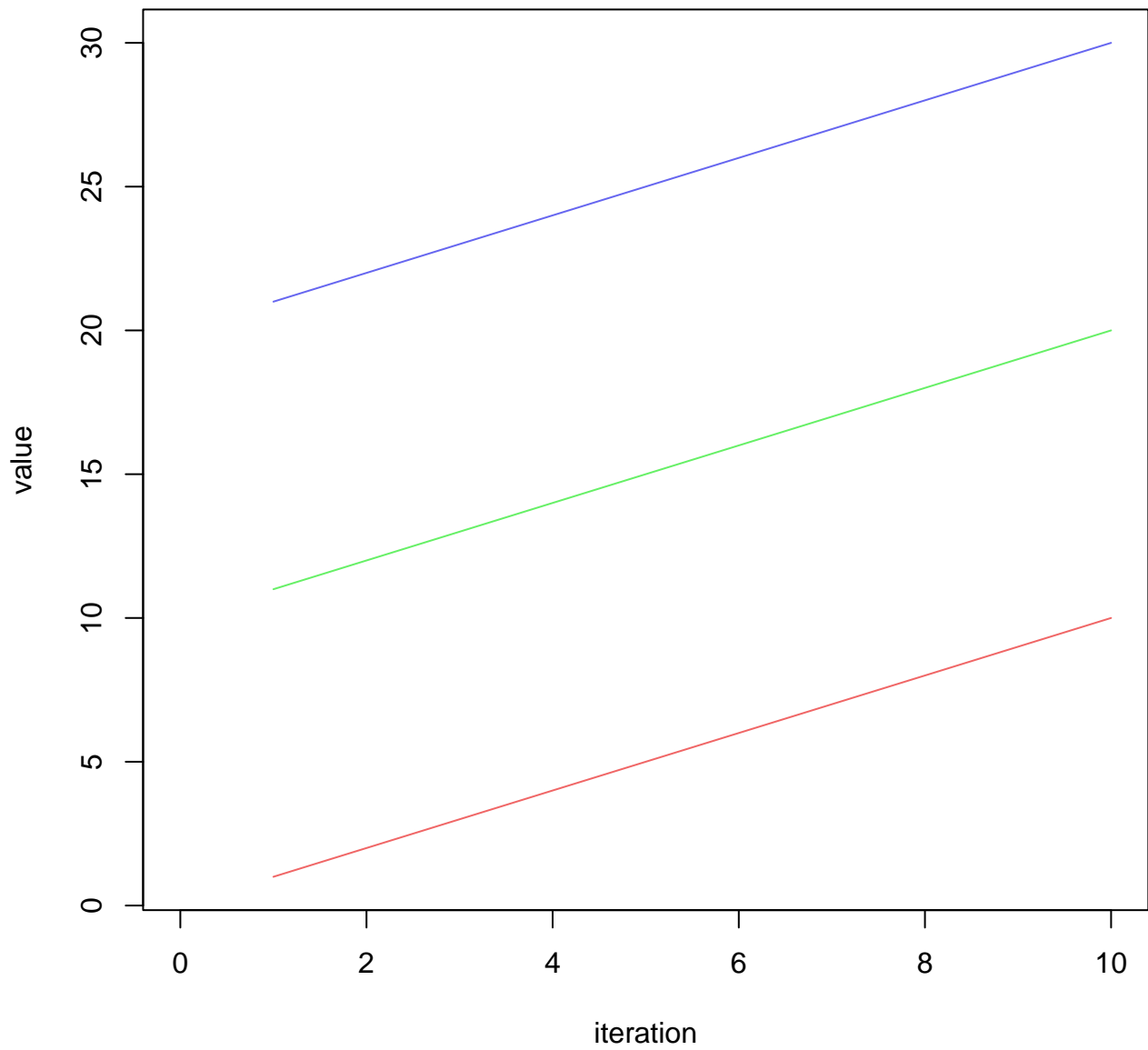
sig\_a

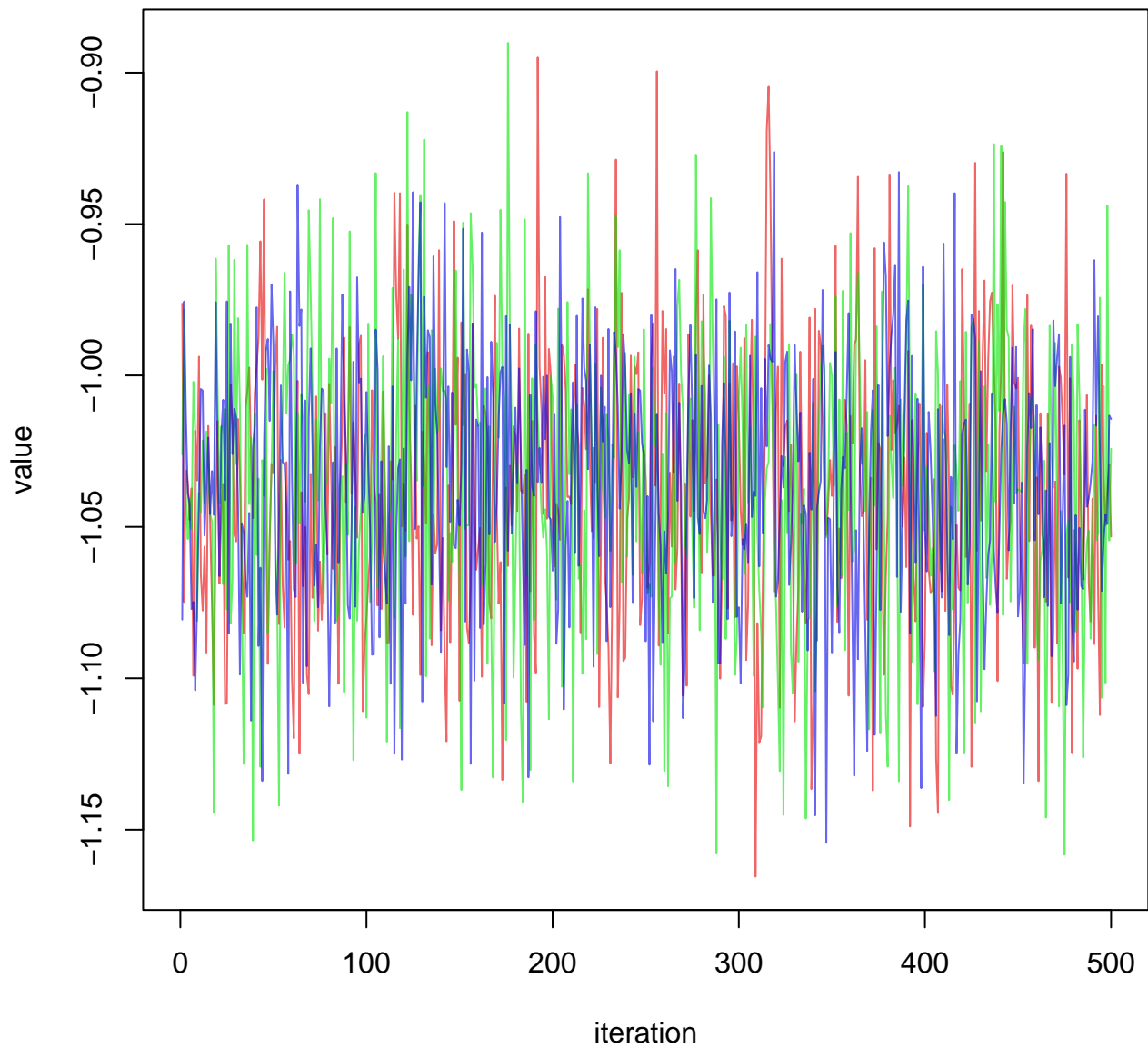


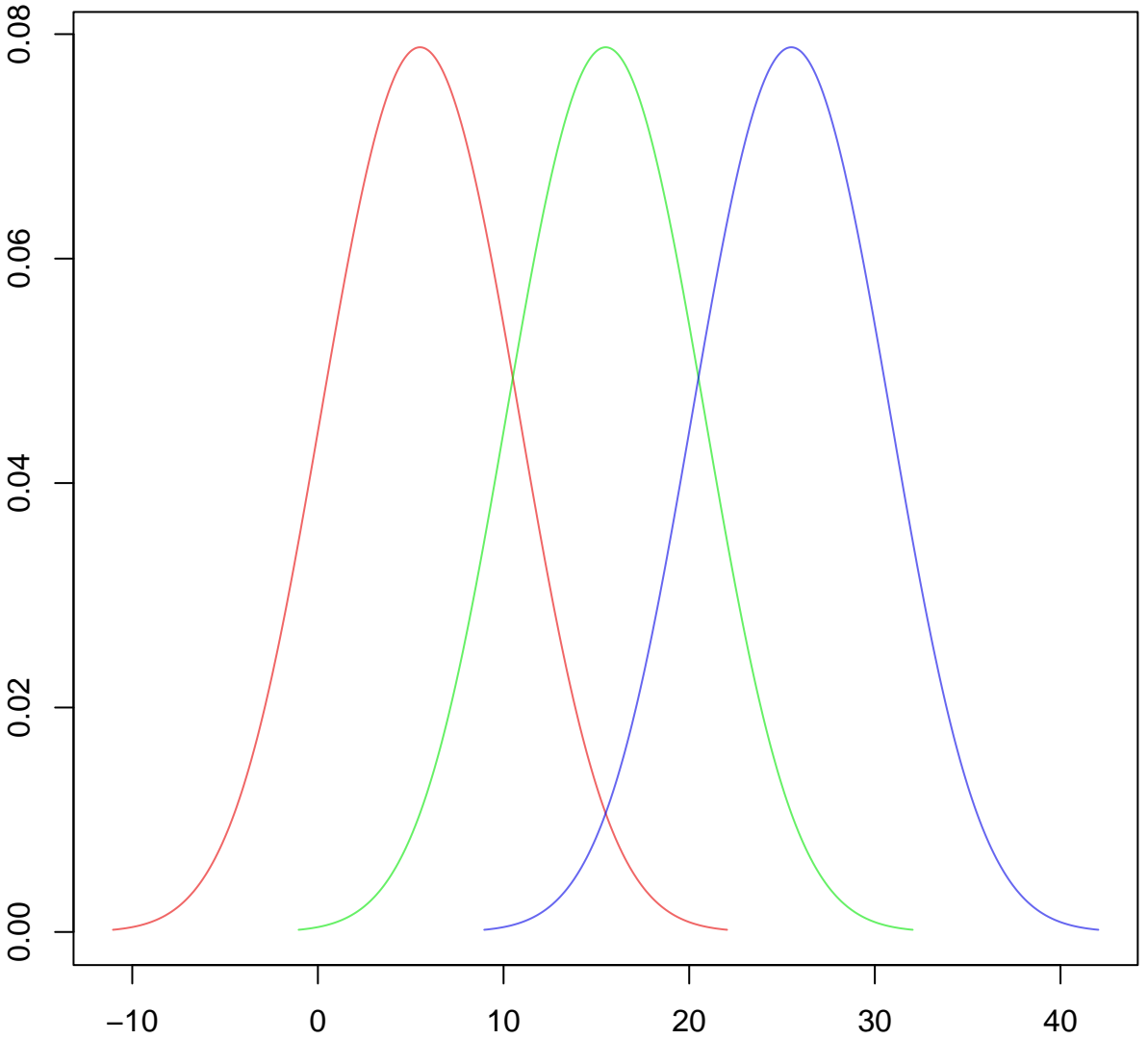
# deviance

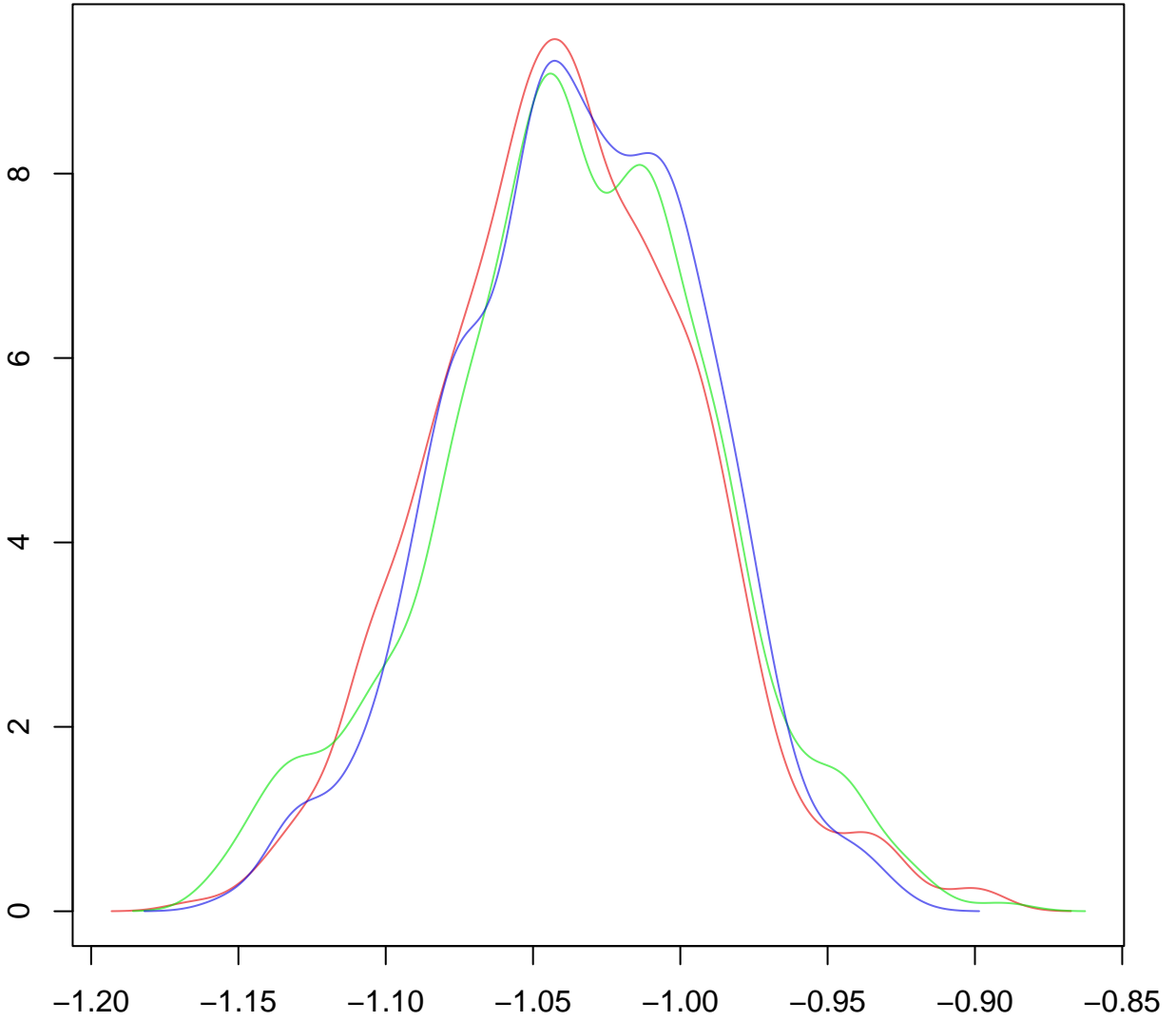


**a[1]****a[2]****a[3]**

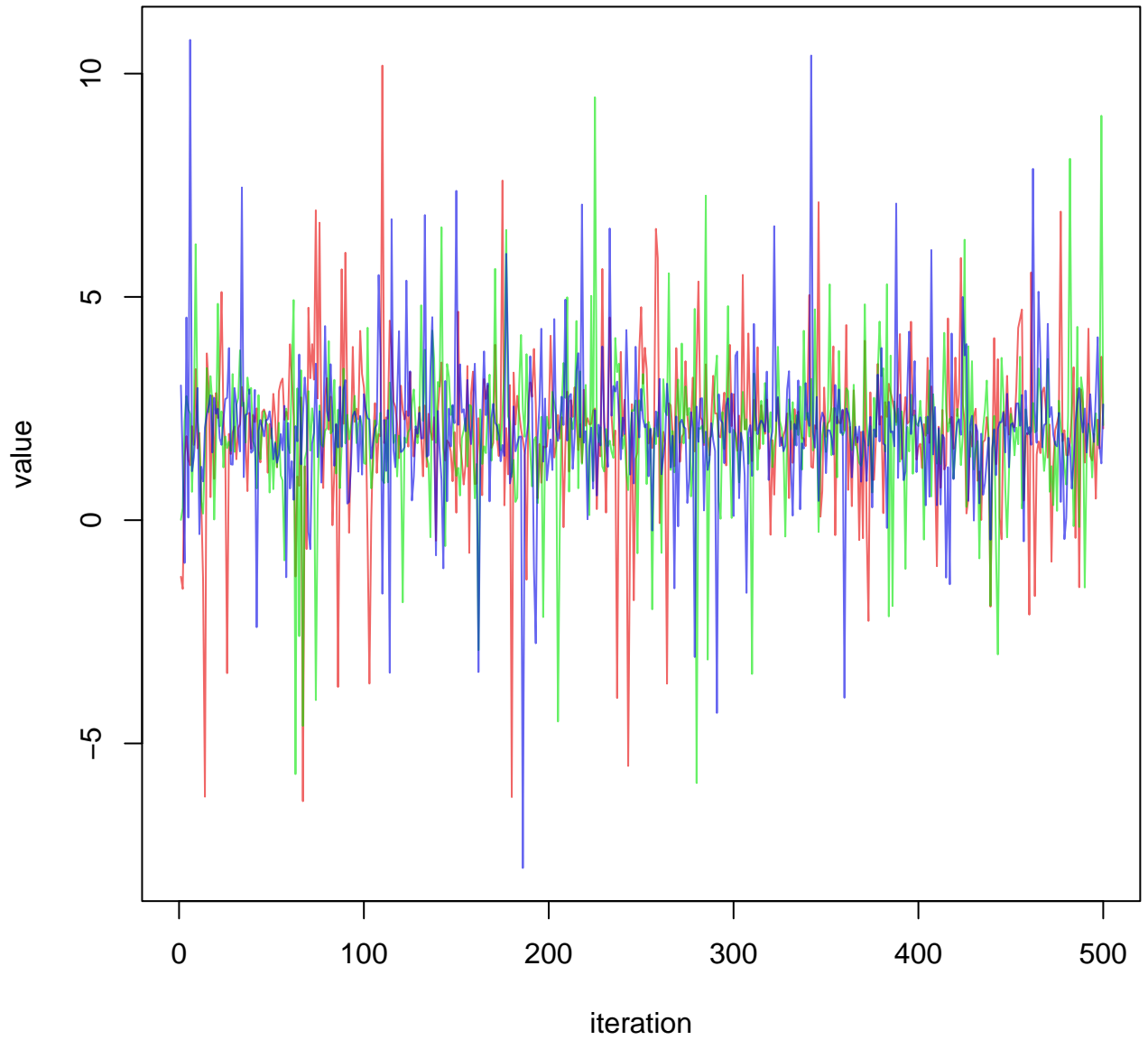






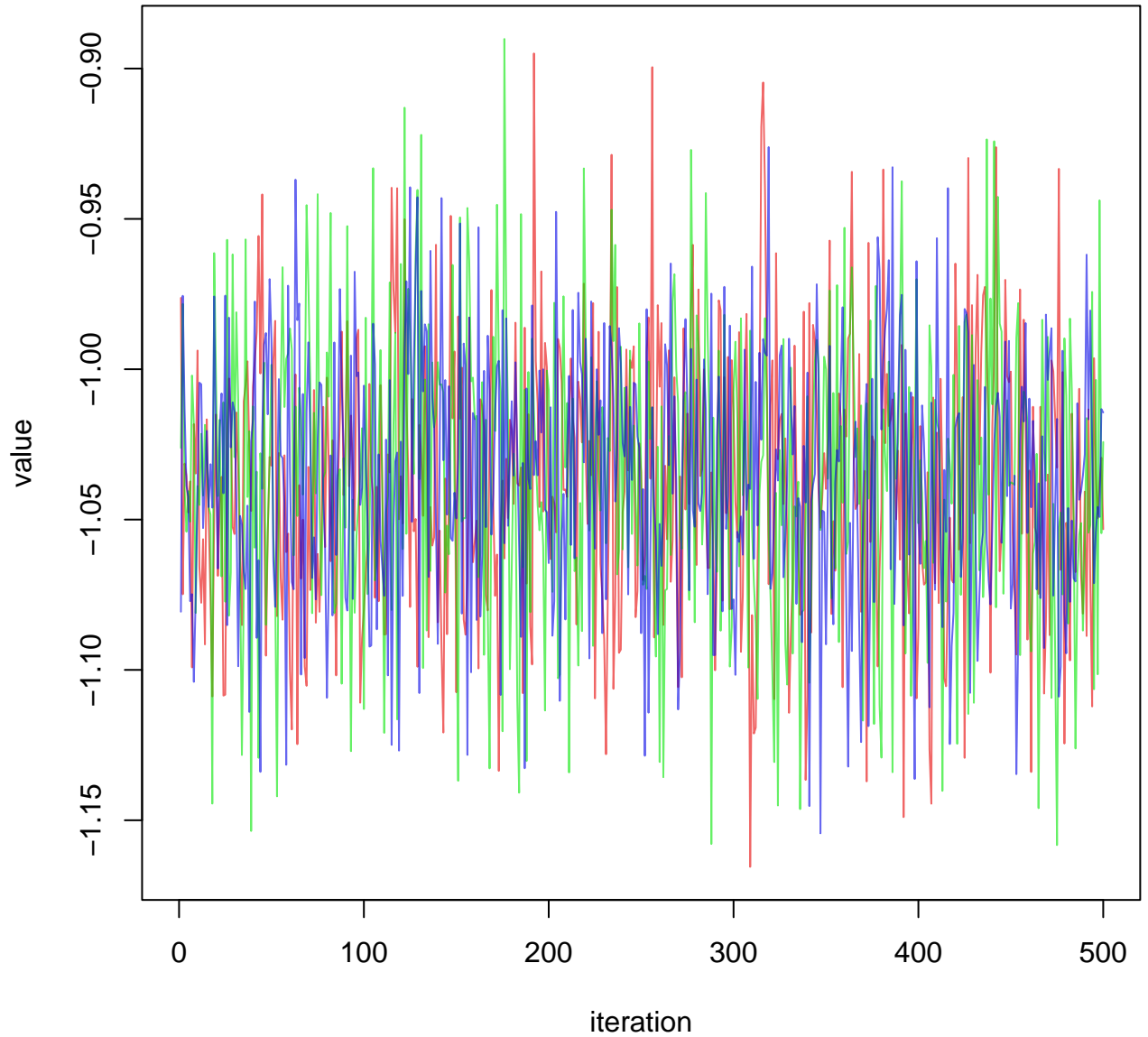


**b0**

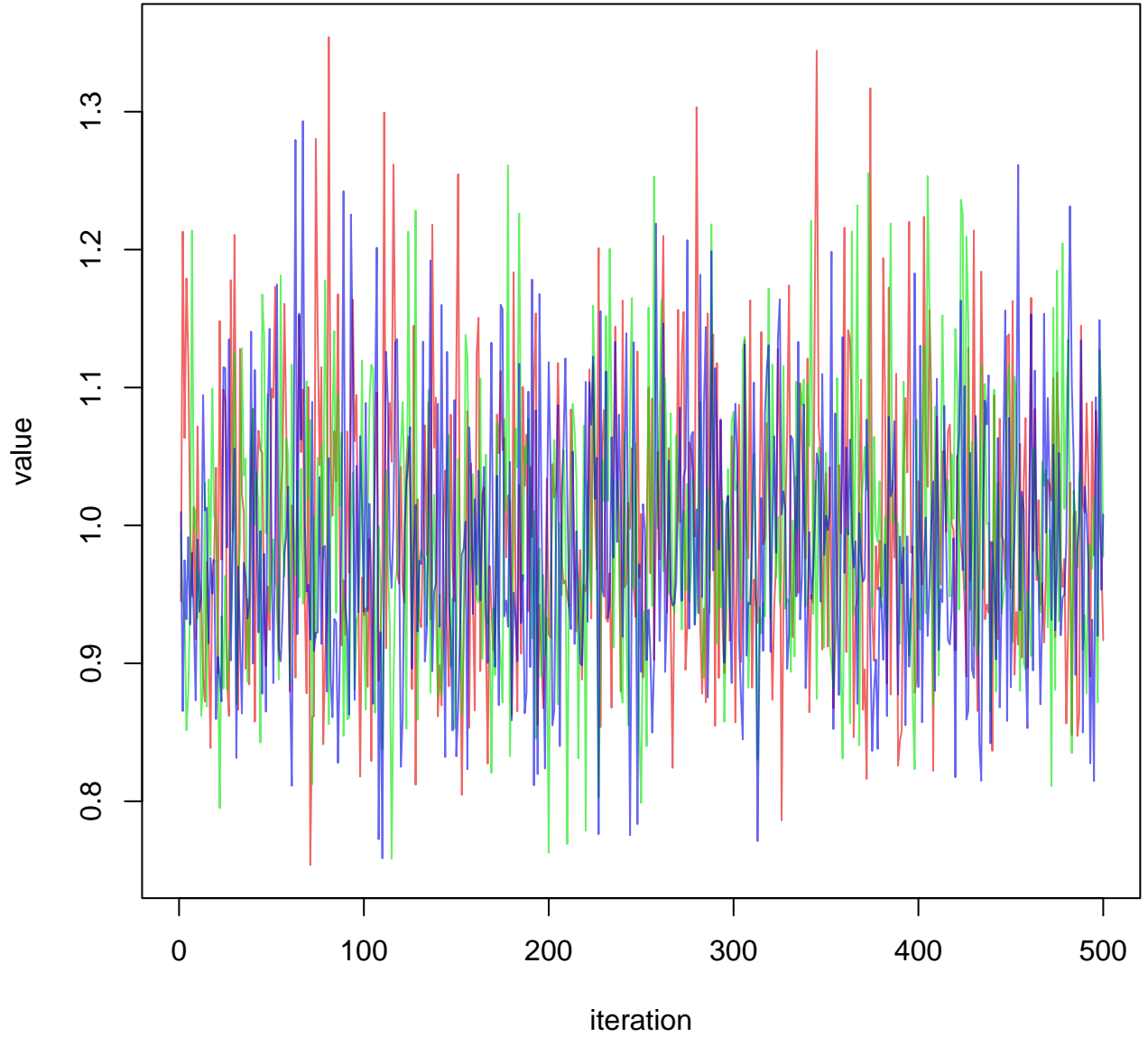




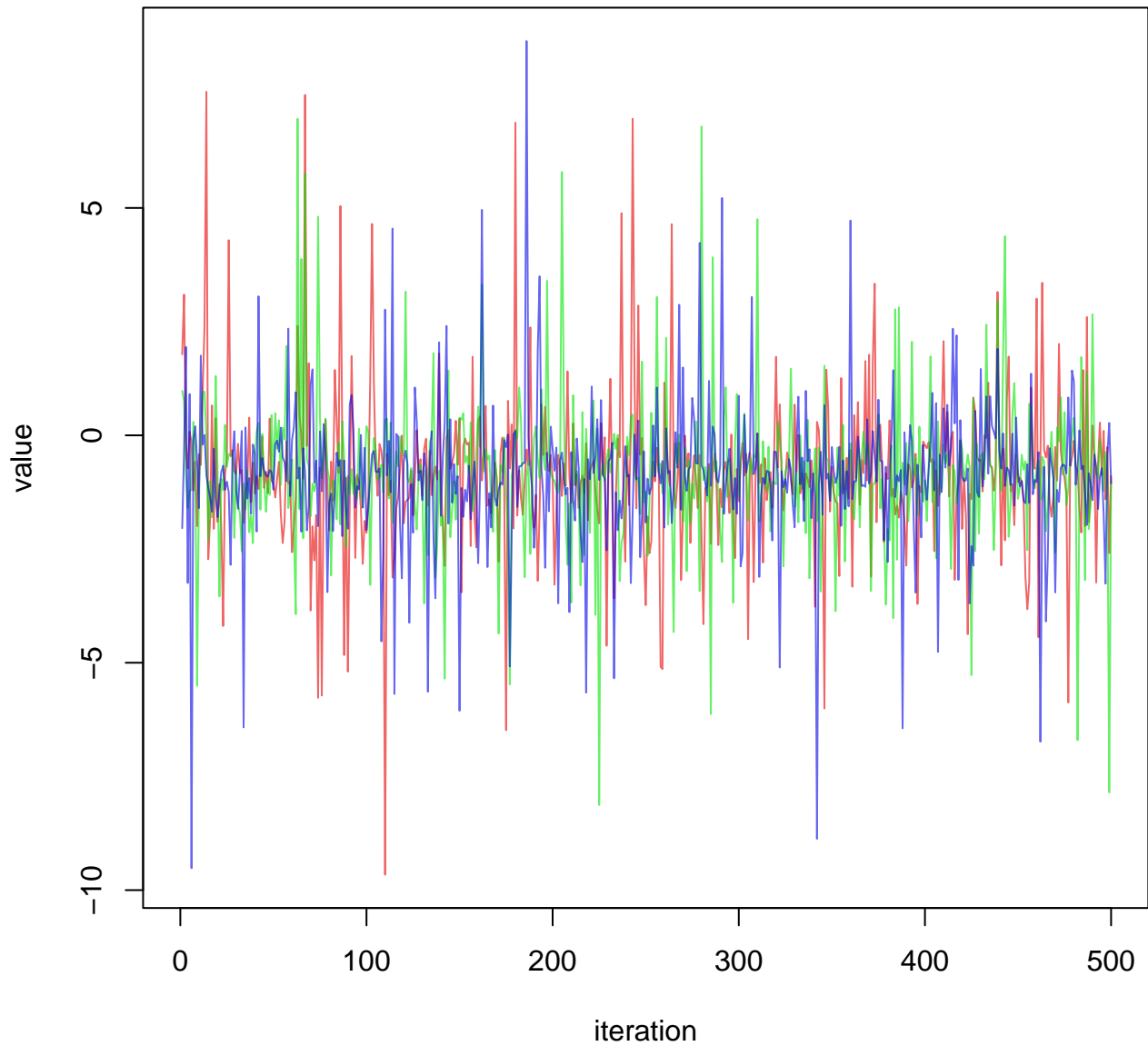
**b1**



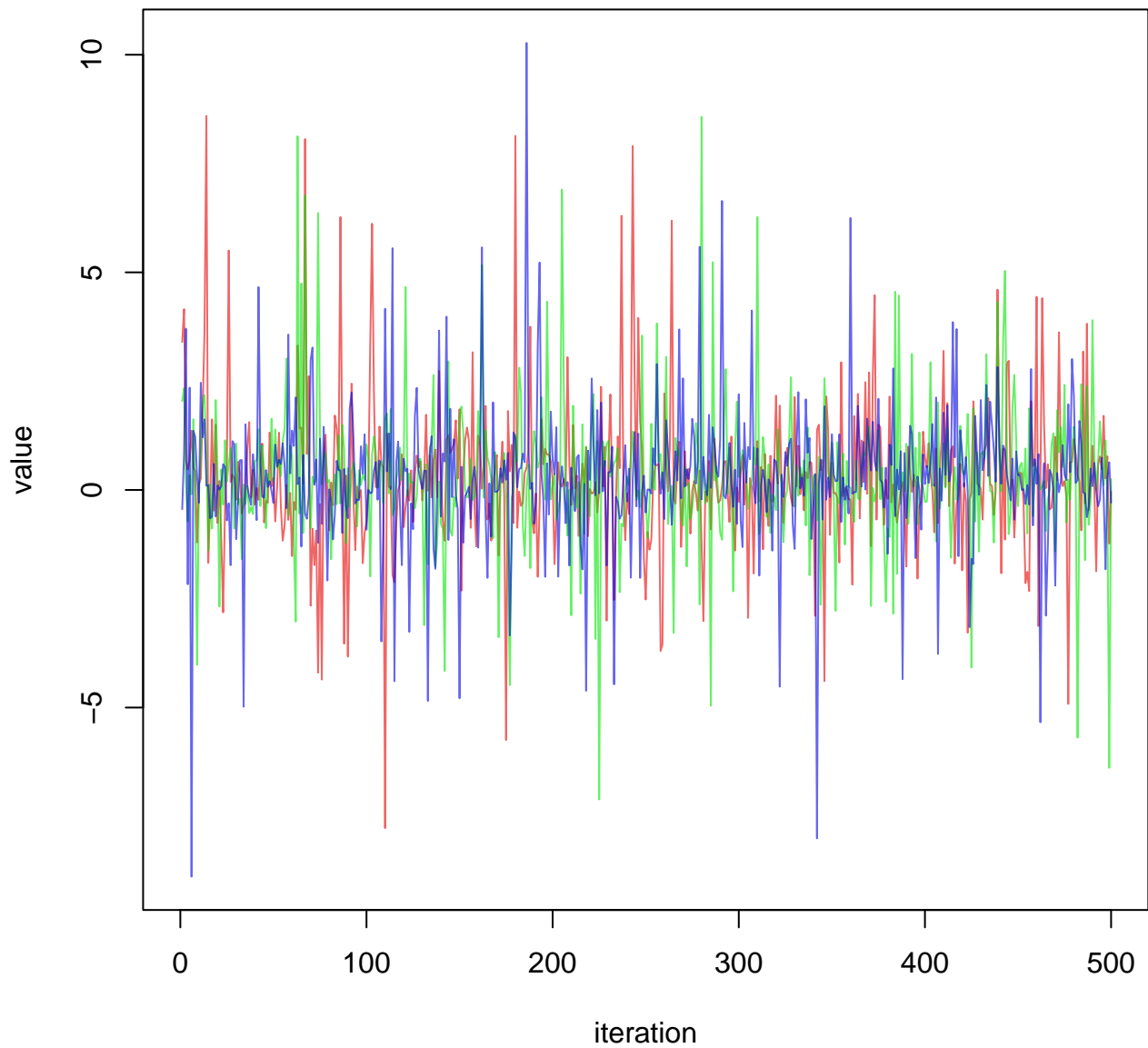
**sig**



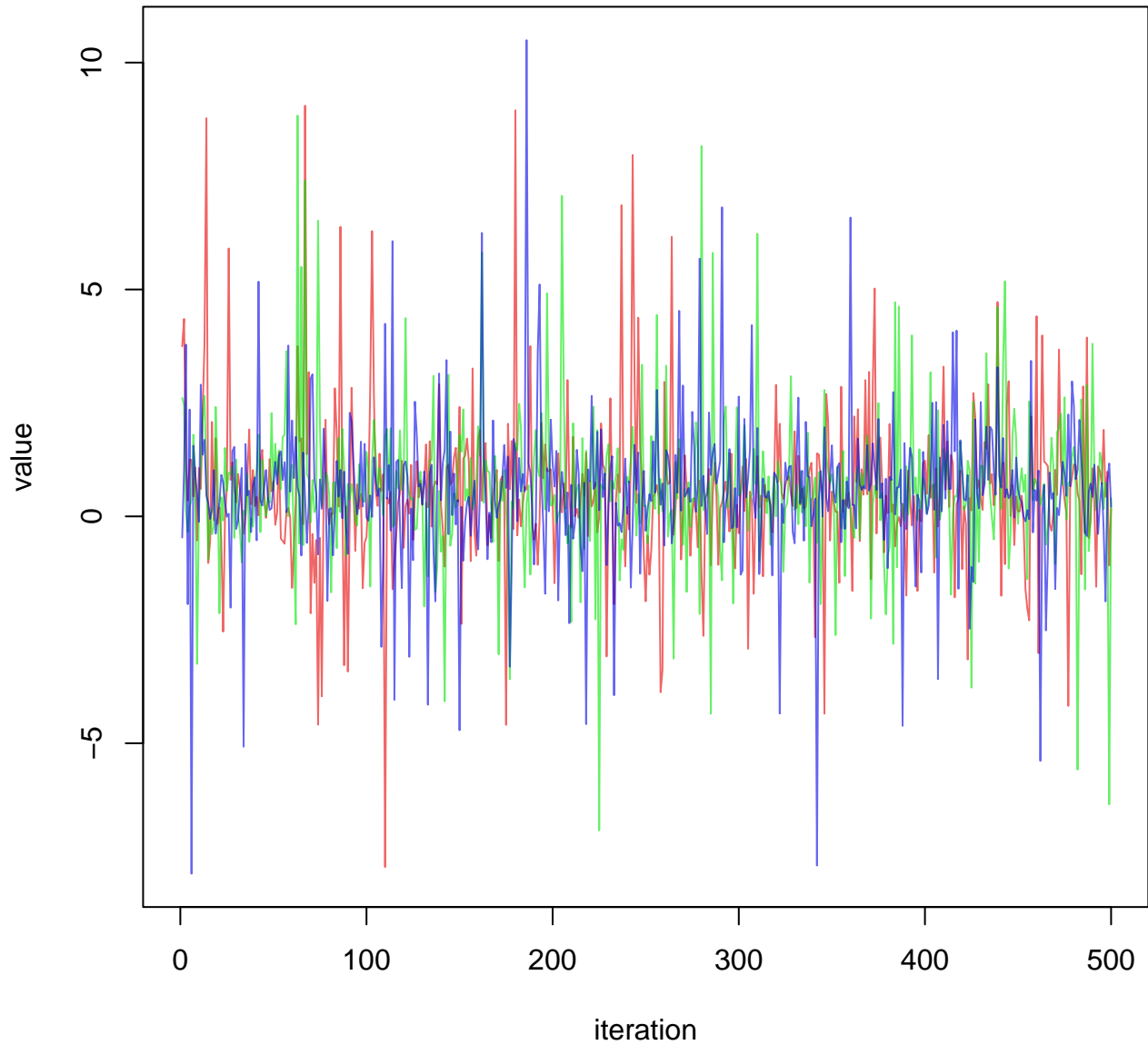
a[1]



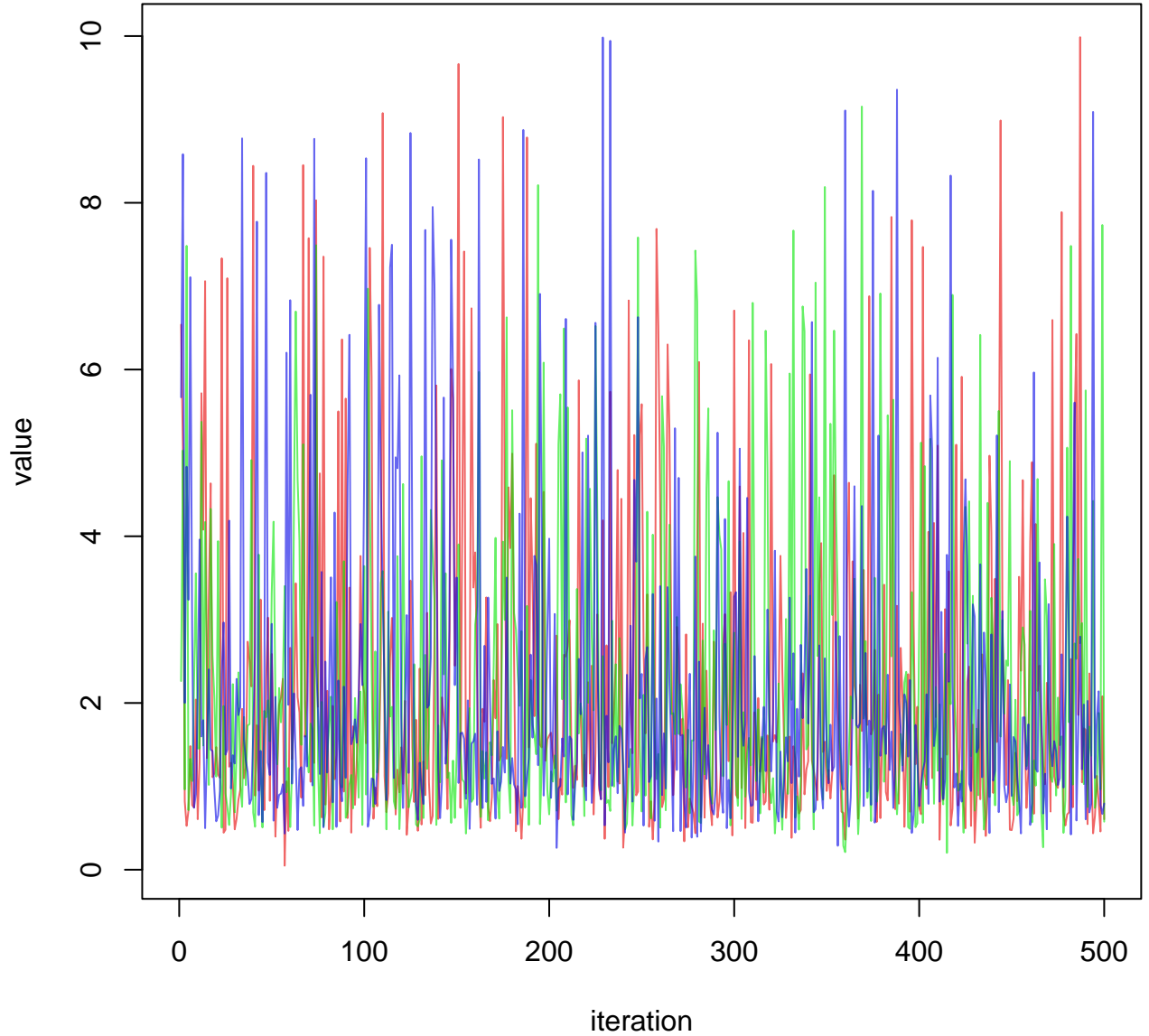
a[2]



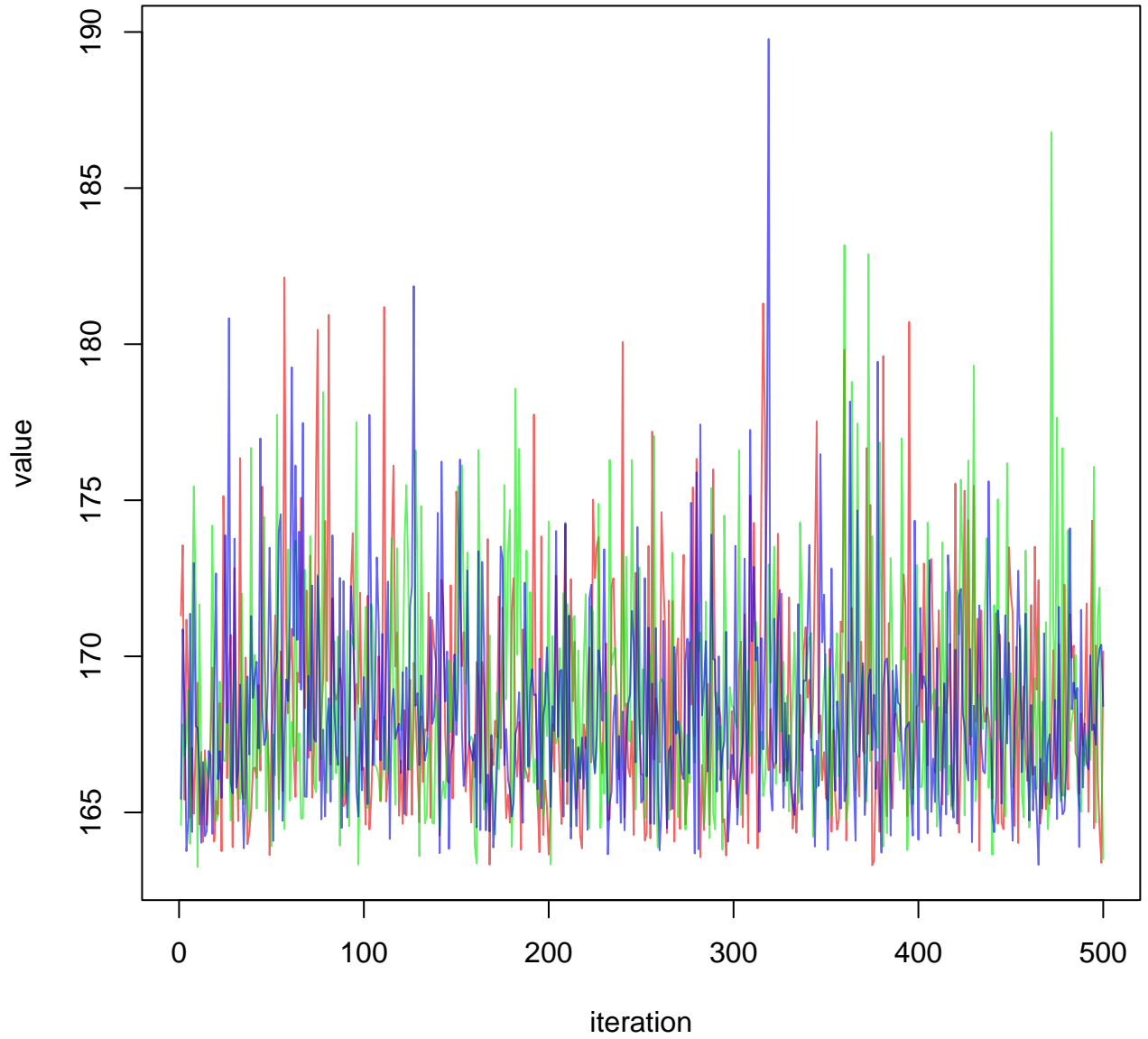
**a[3]**



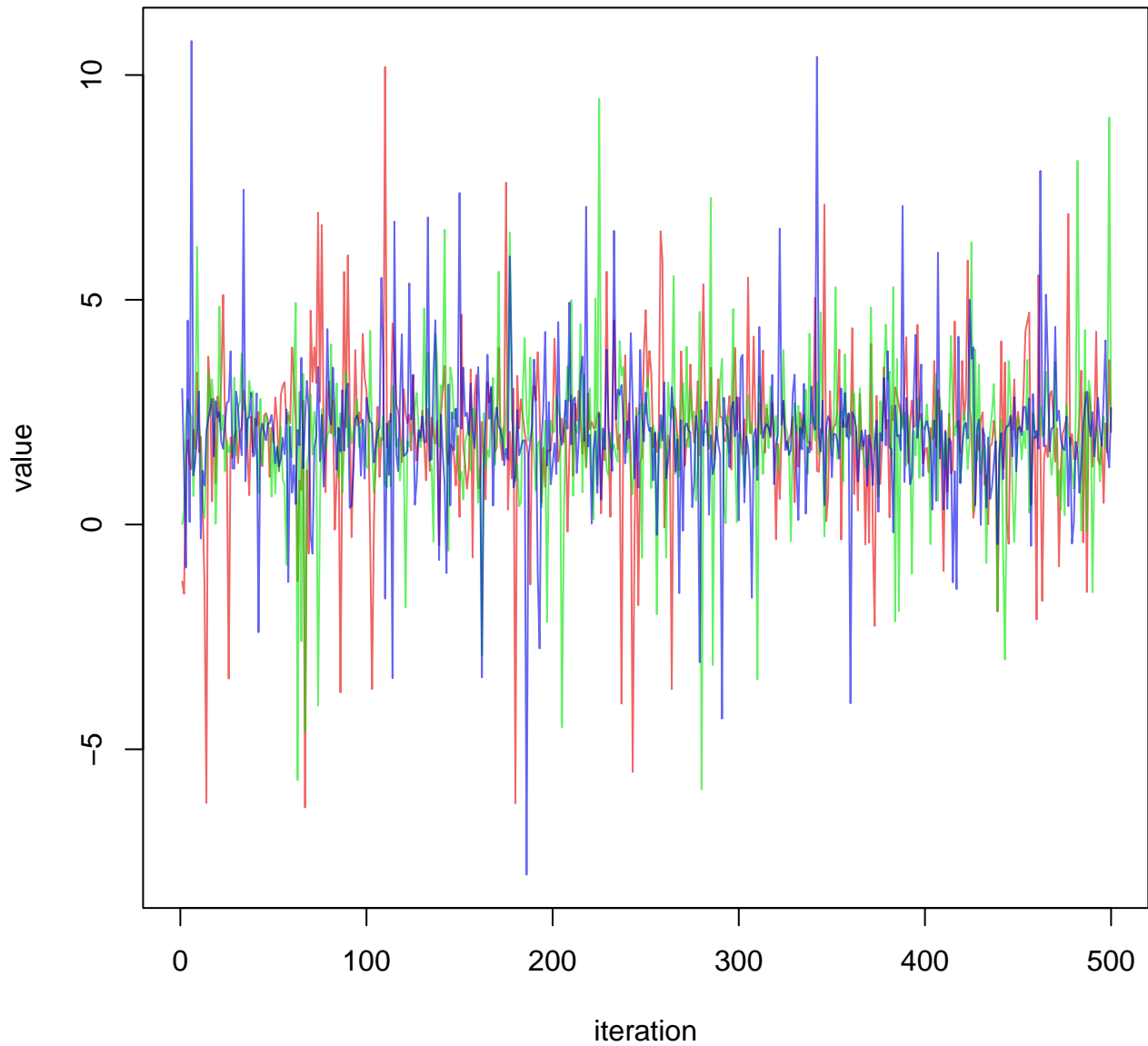
sig\_a



# deviance

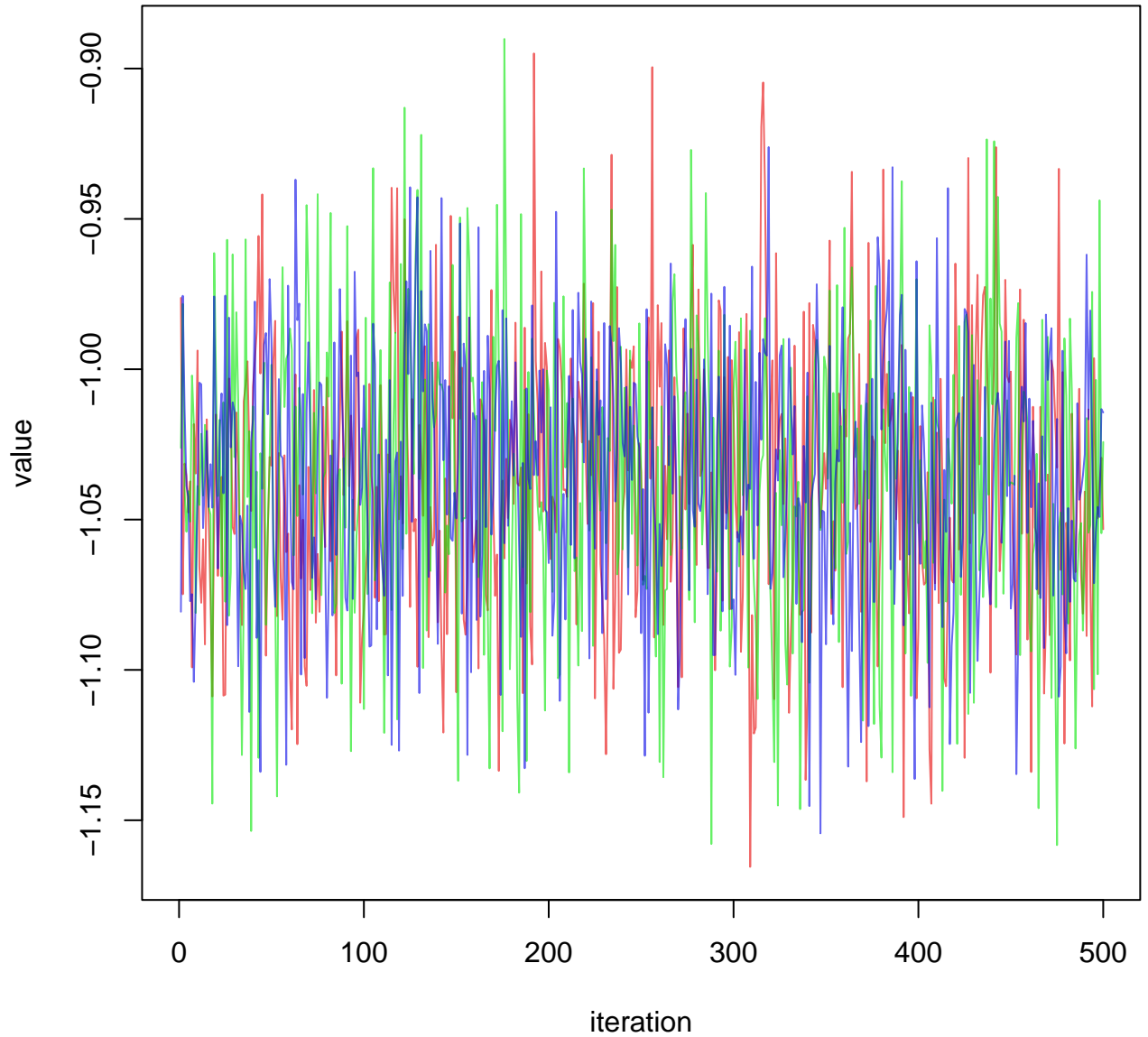


**b0**

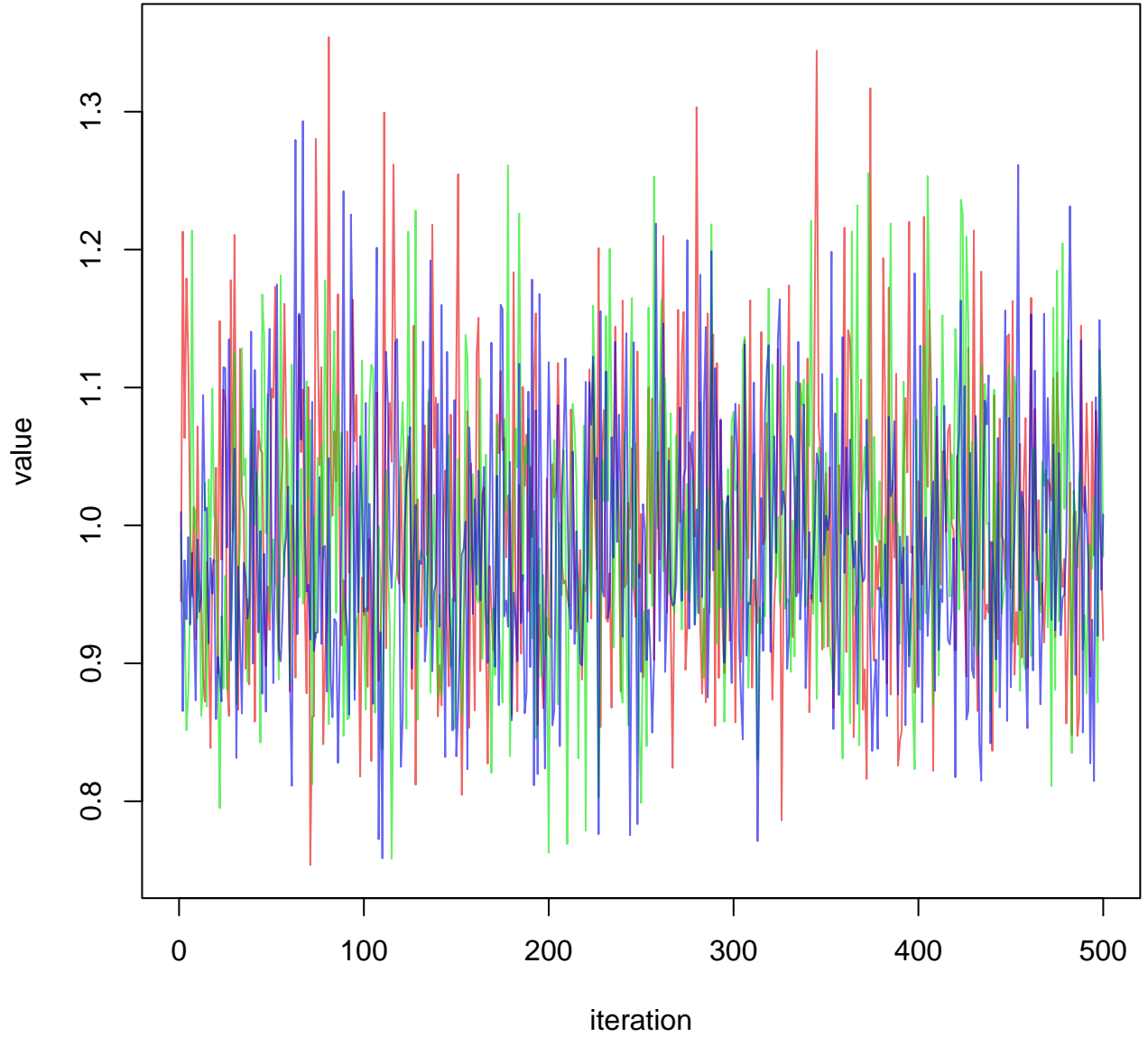




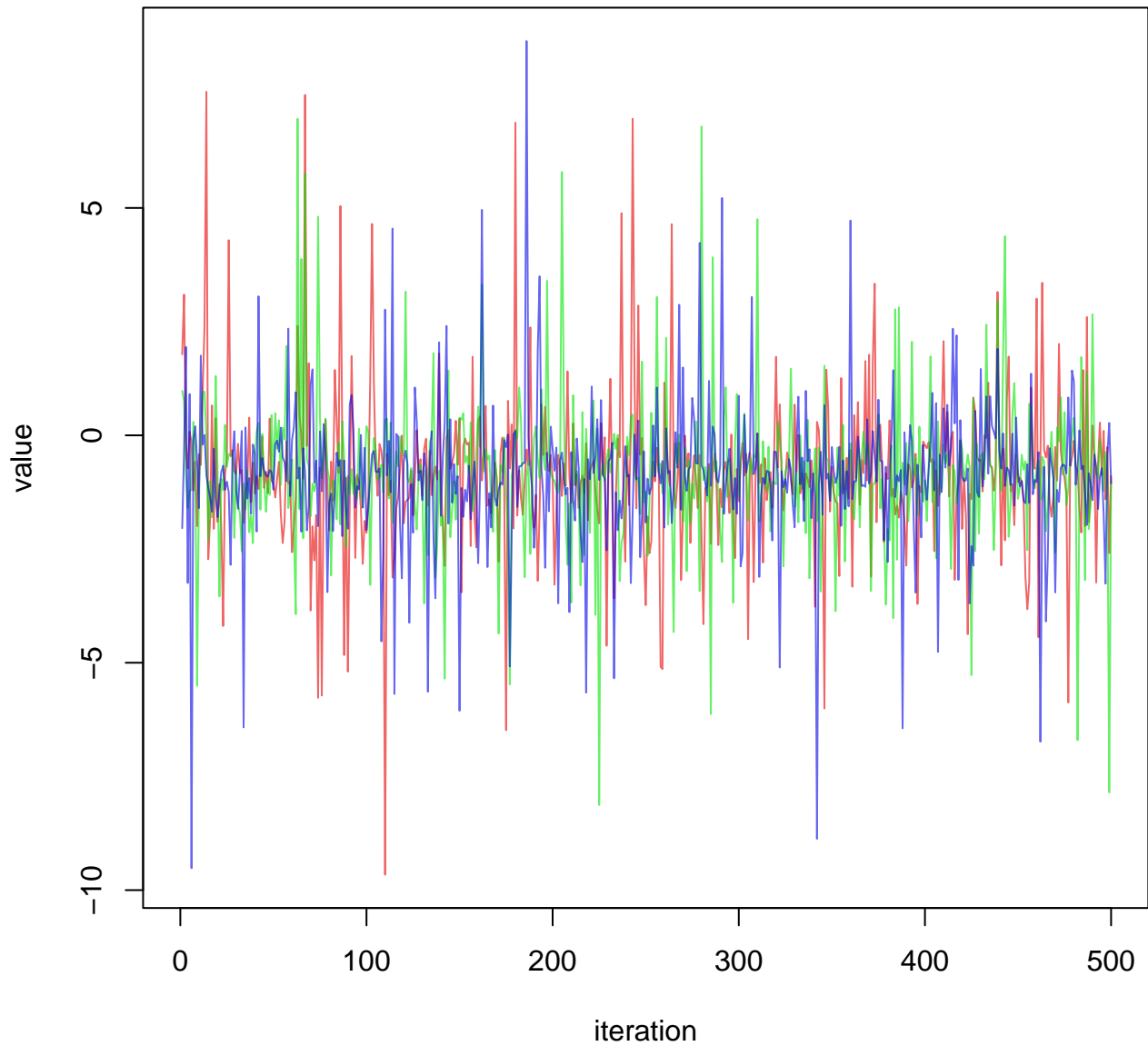
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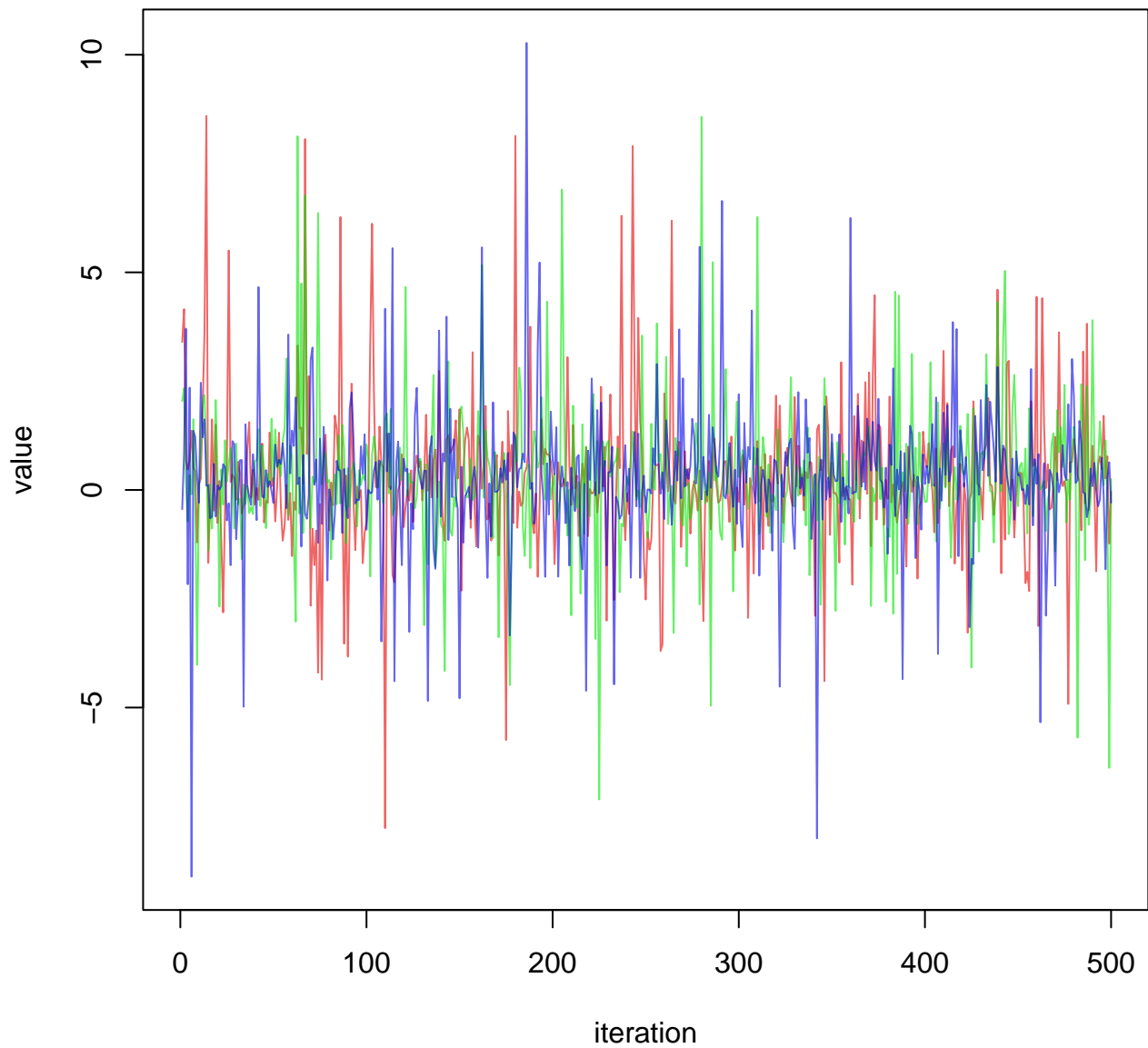
**sig**



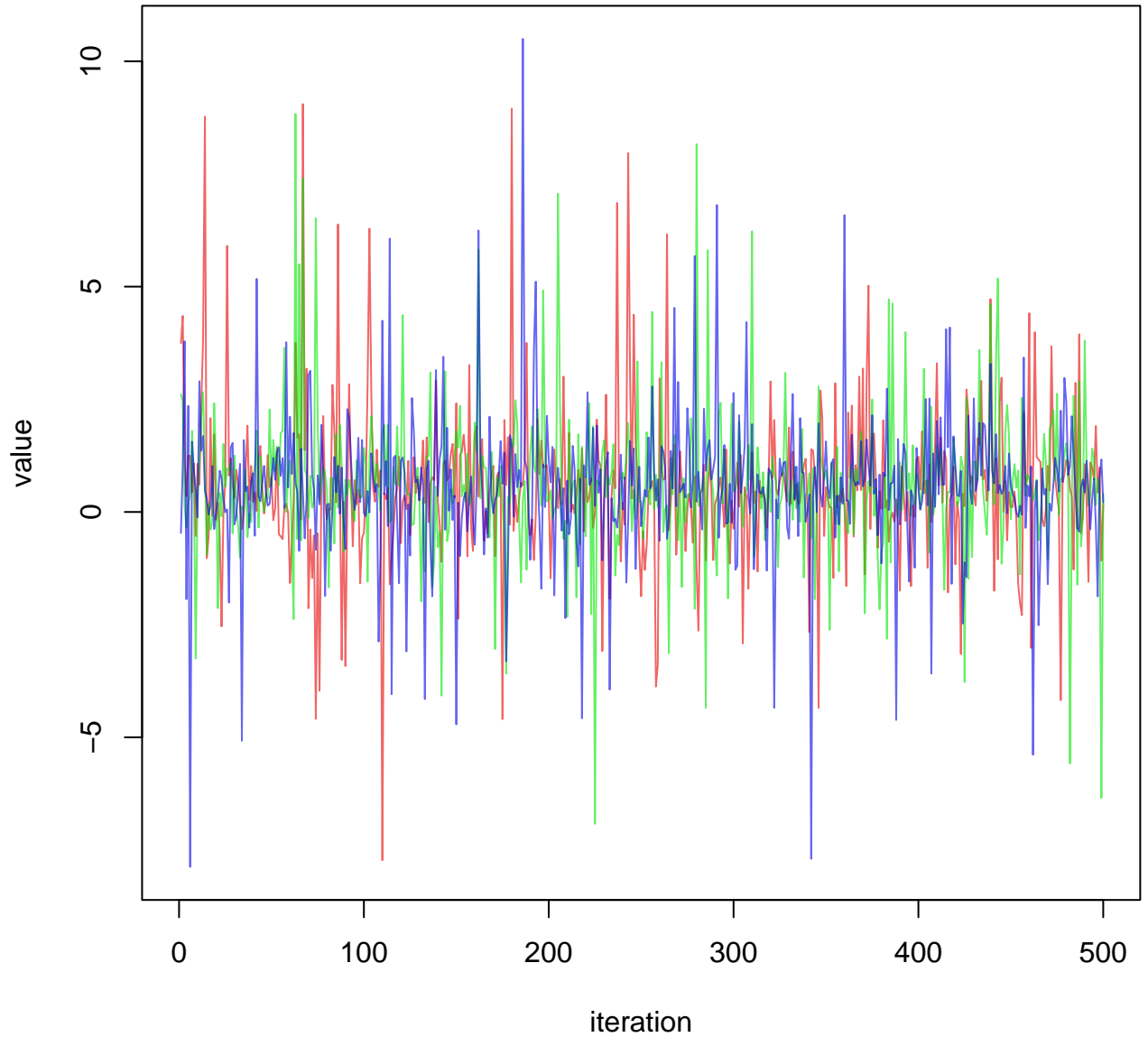
a[1]



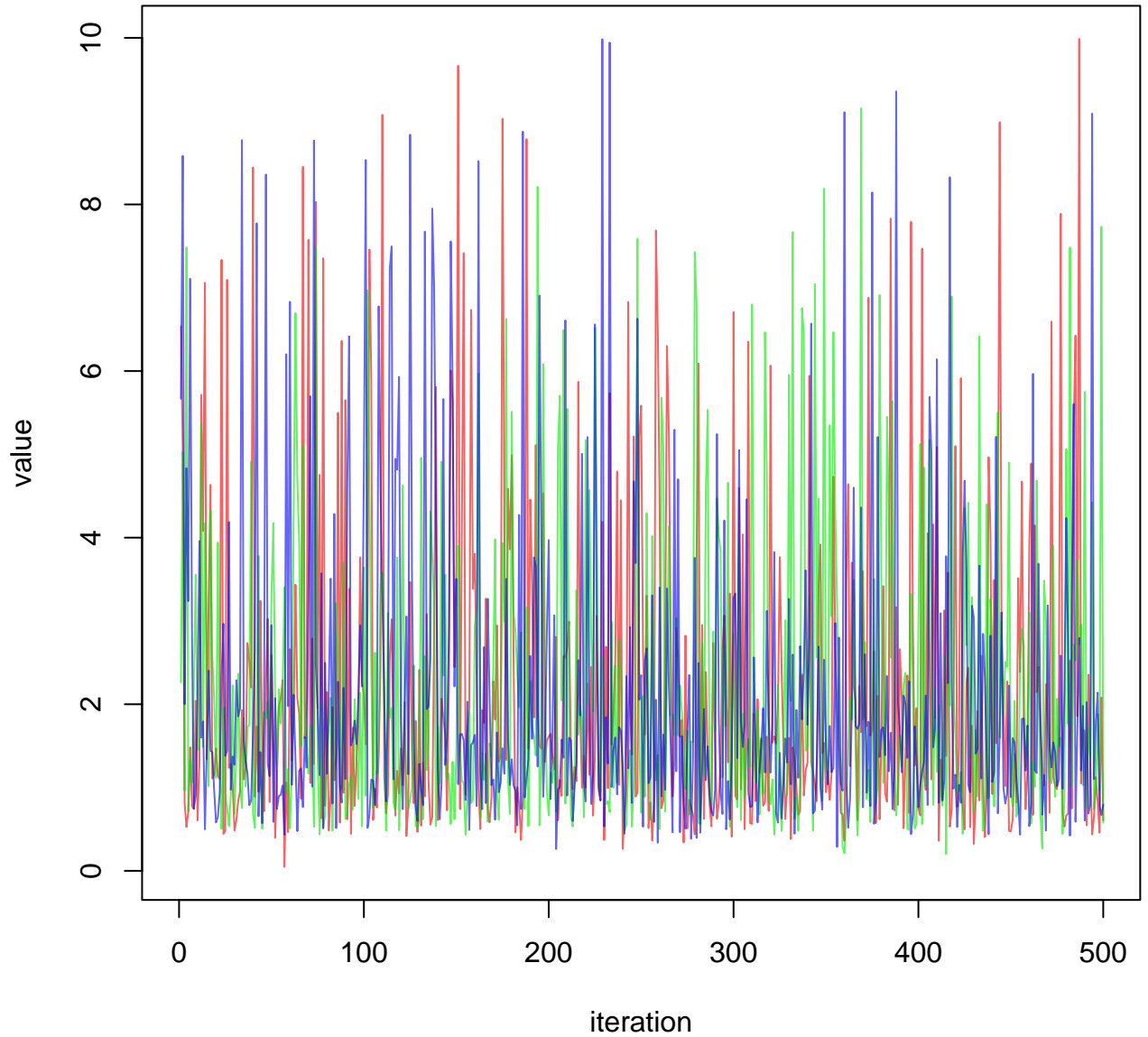
a[2]



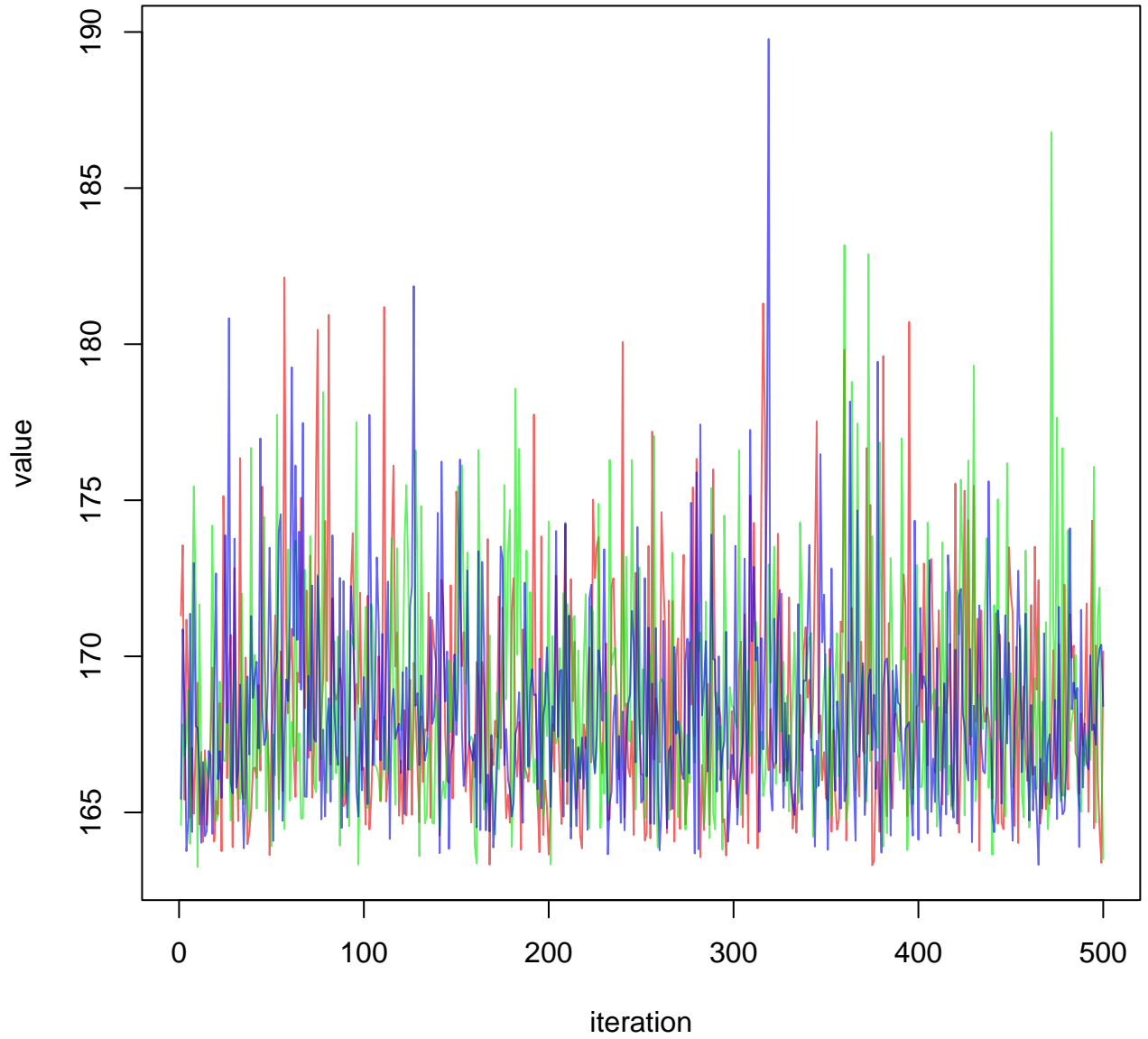
**a[3]**

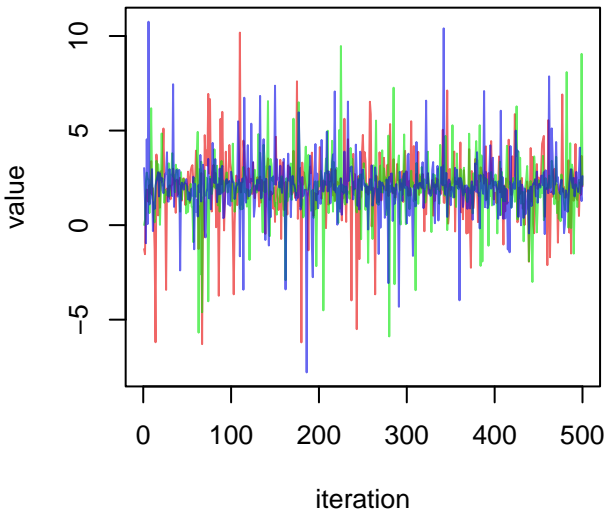
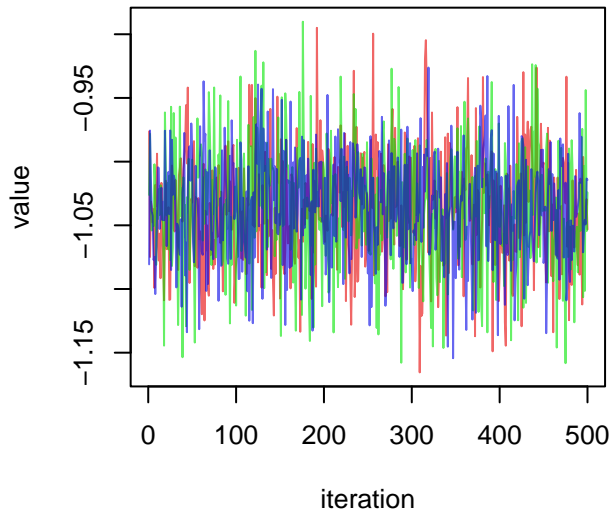
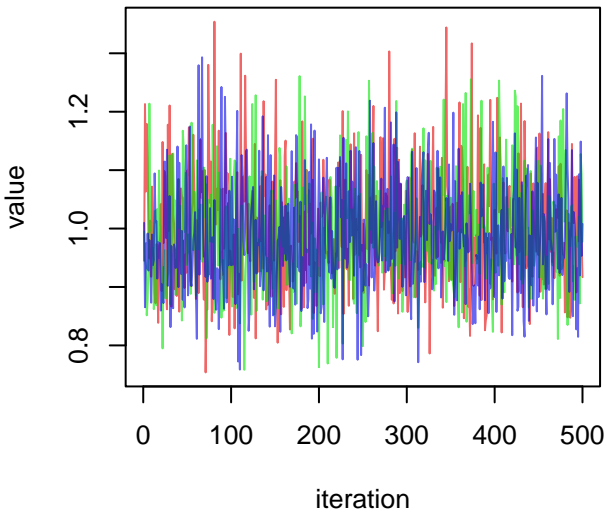
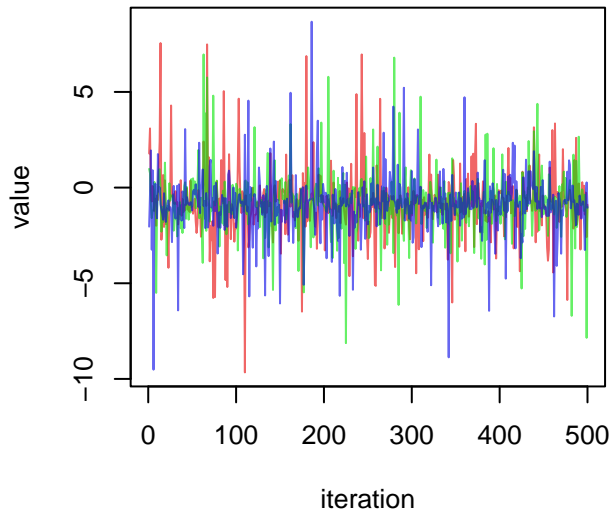


sig\_a

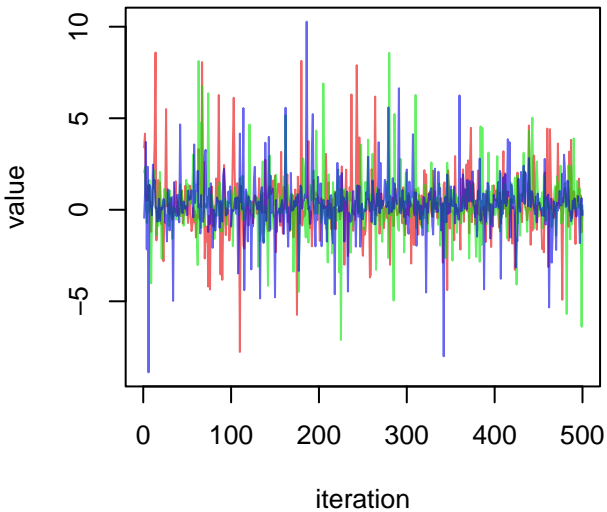
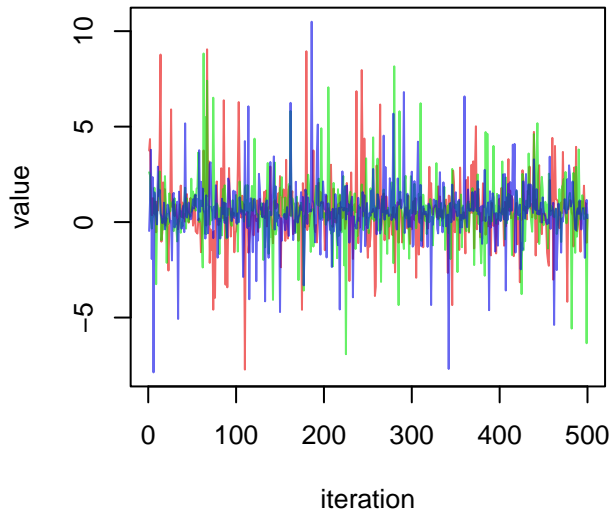
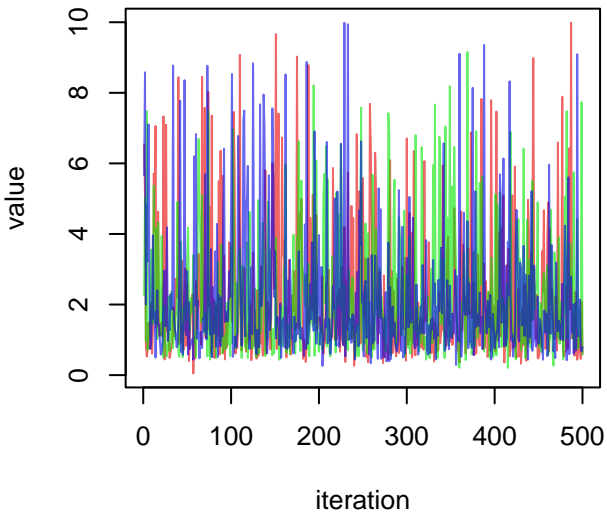
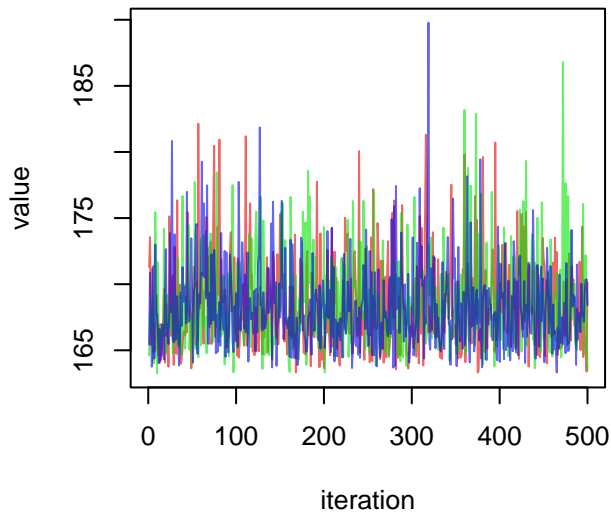


# deviance

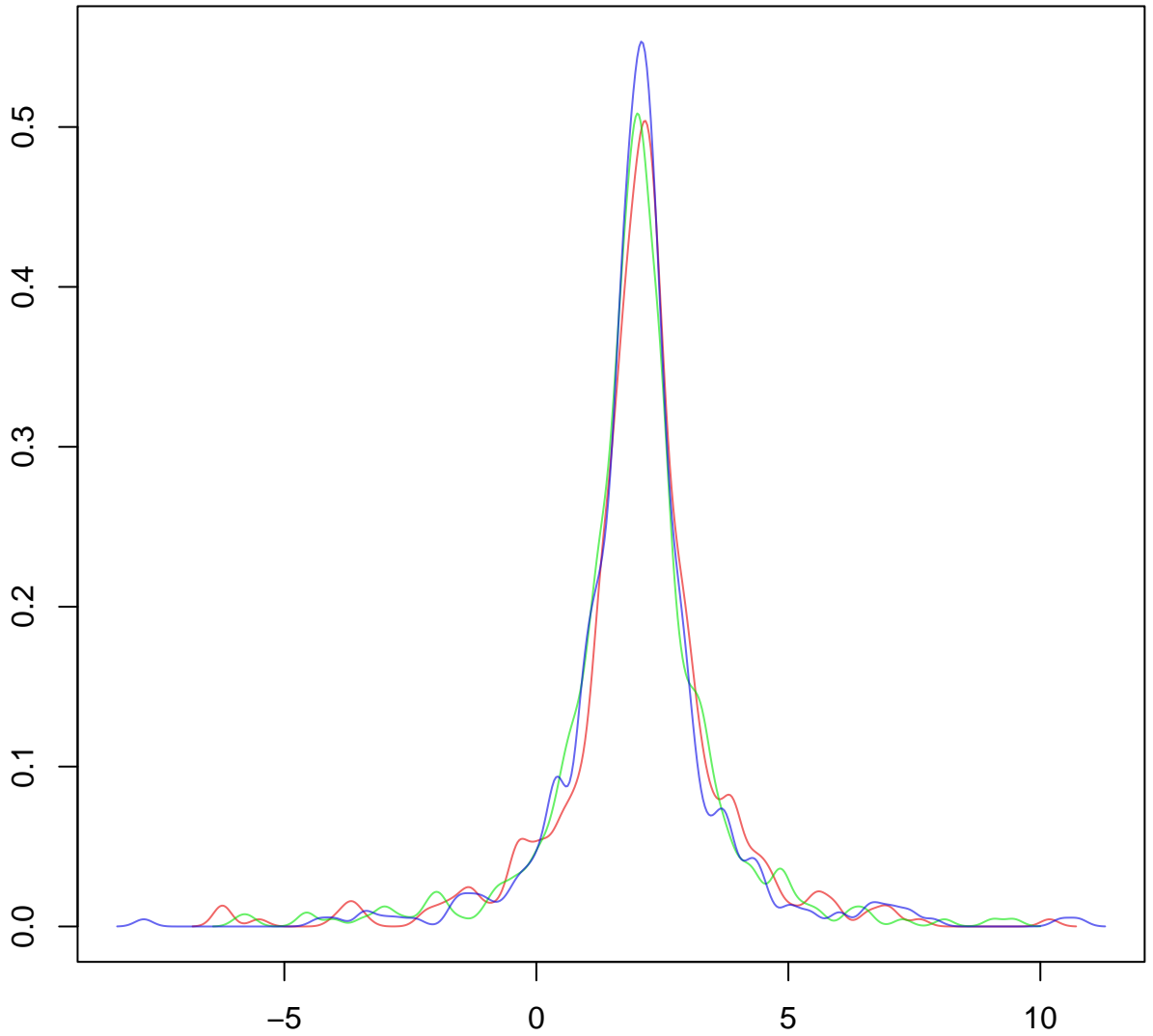


**b0****b1****sig****a[1]**

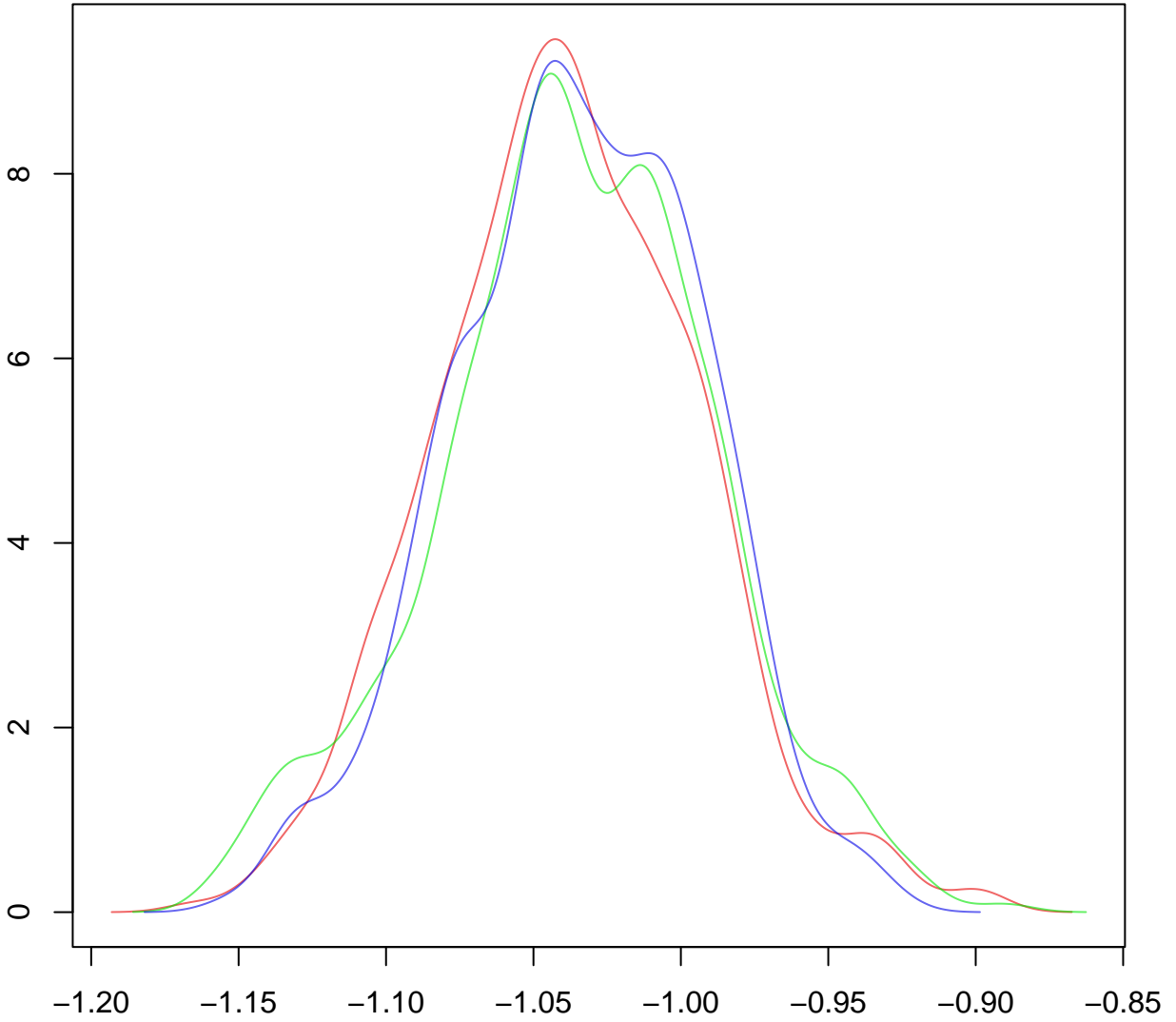


**a[2]****a[3]****sig\_a****deviance**

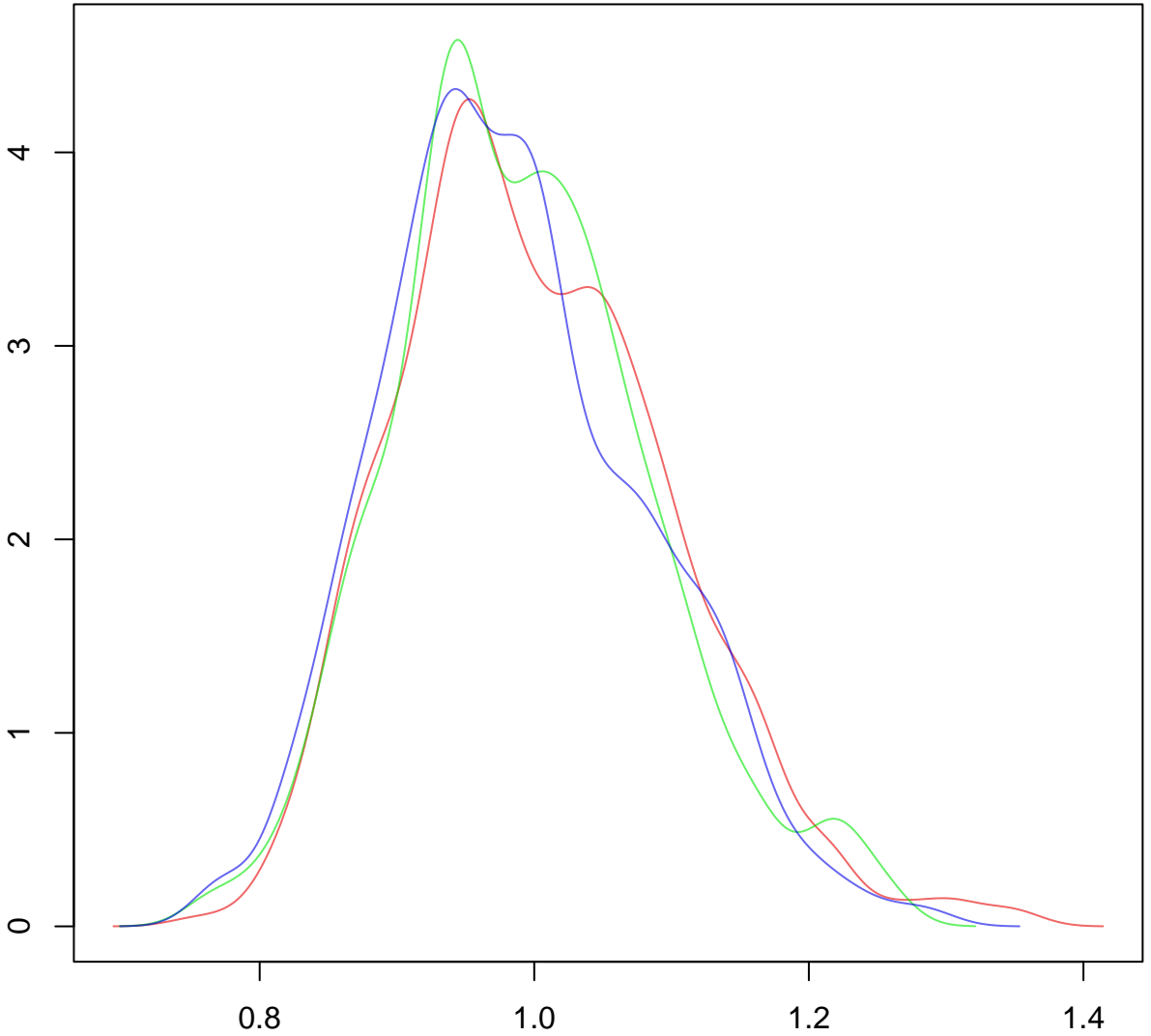
**b0**



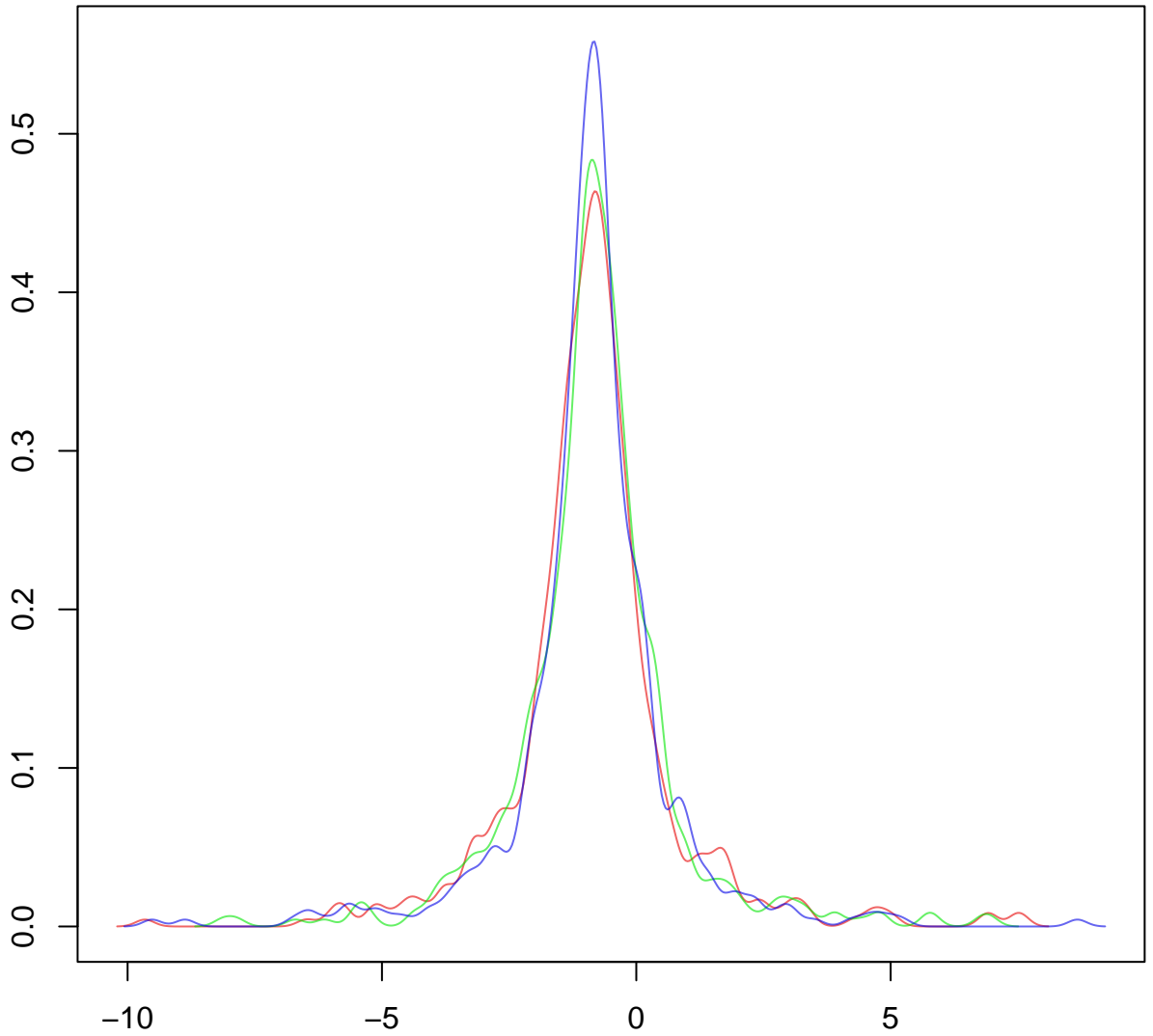
**b1**



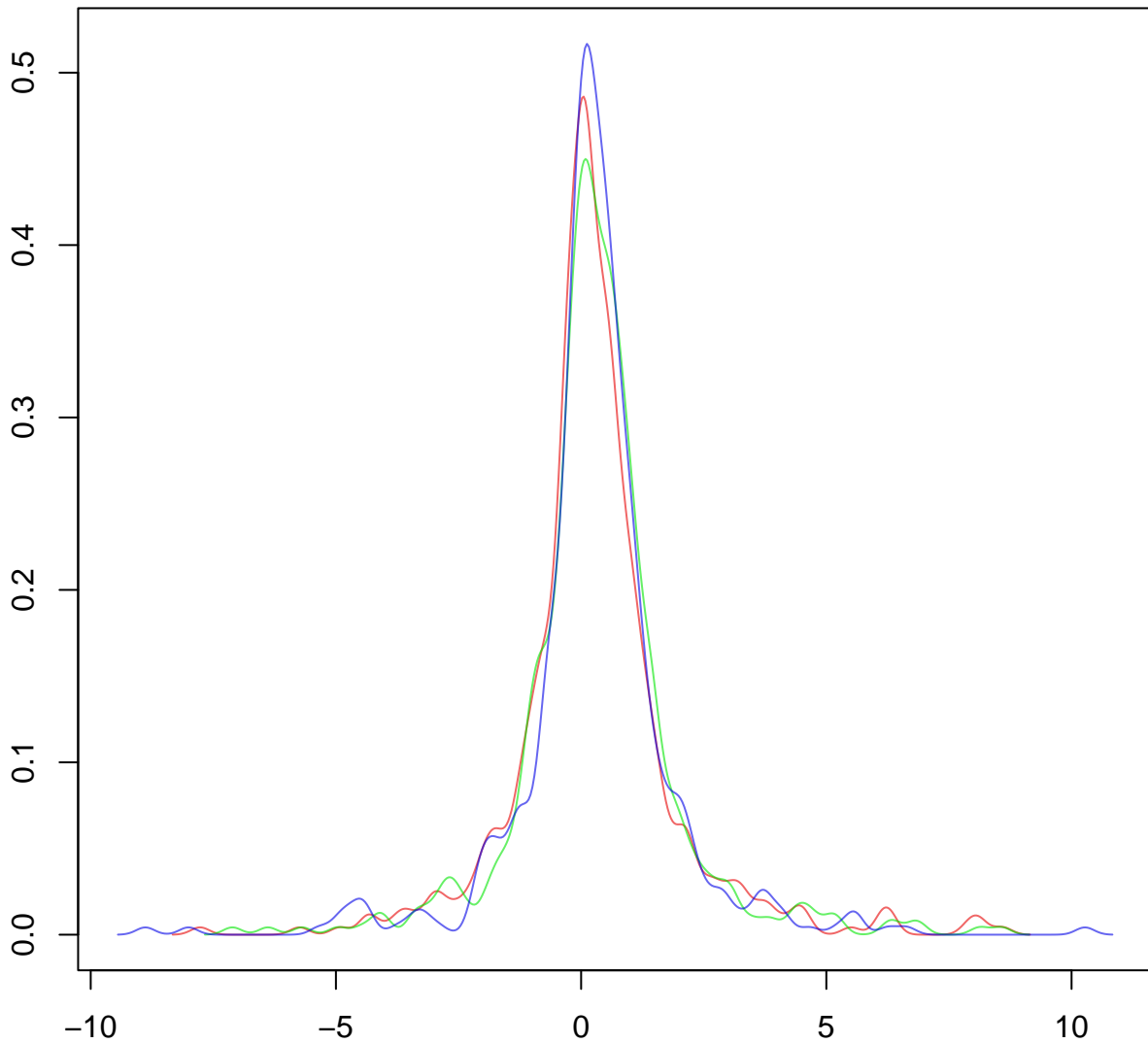
**sig**



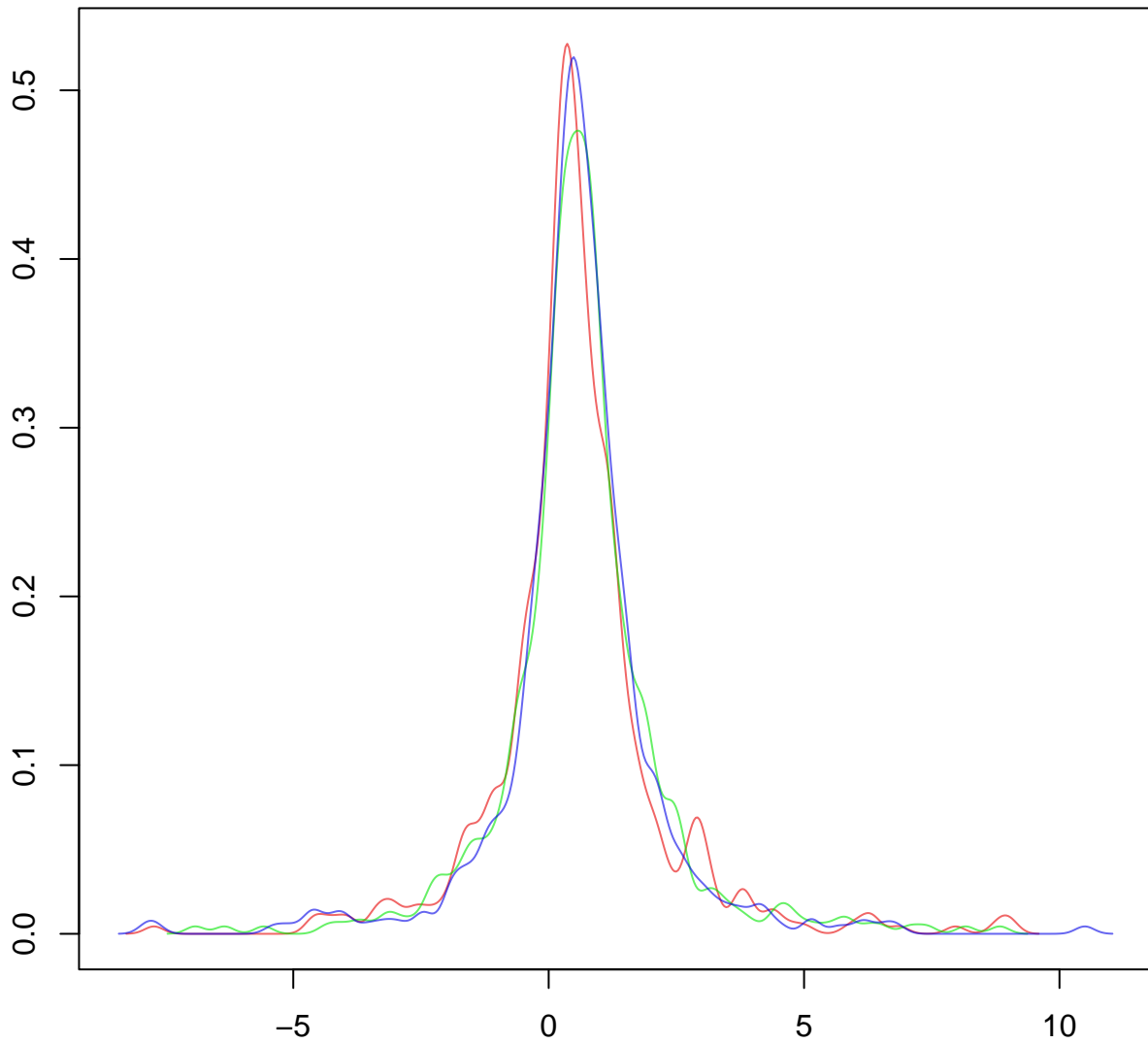
a[1]



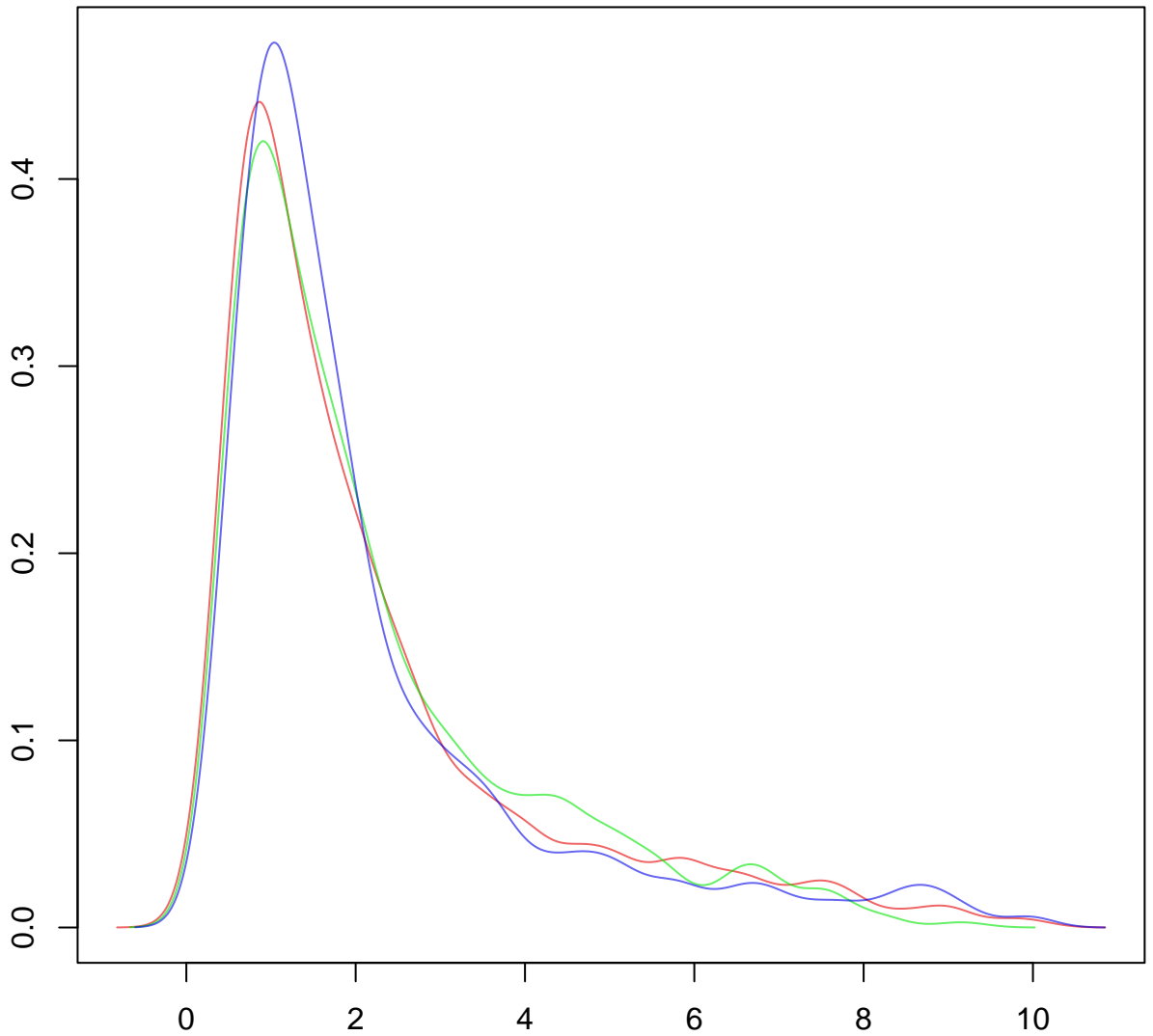
**a[2]**



**a[3]**

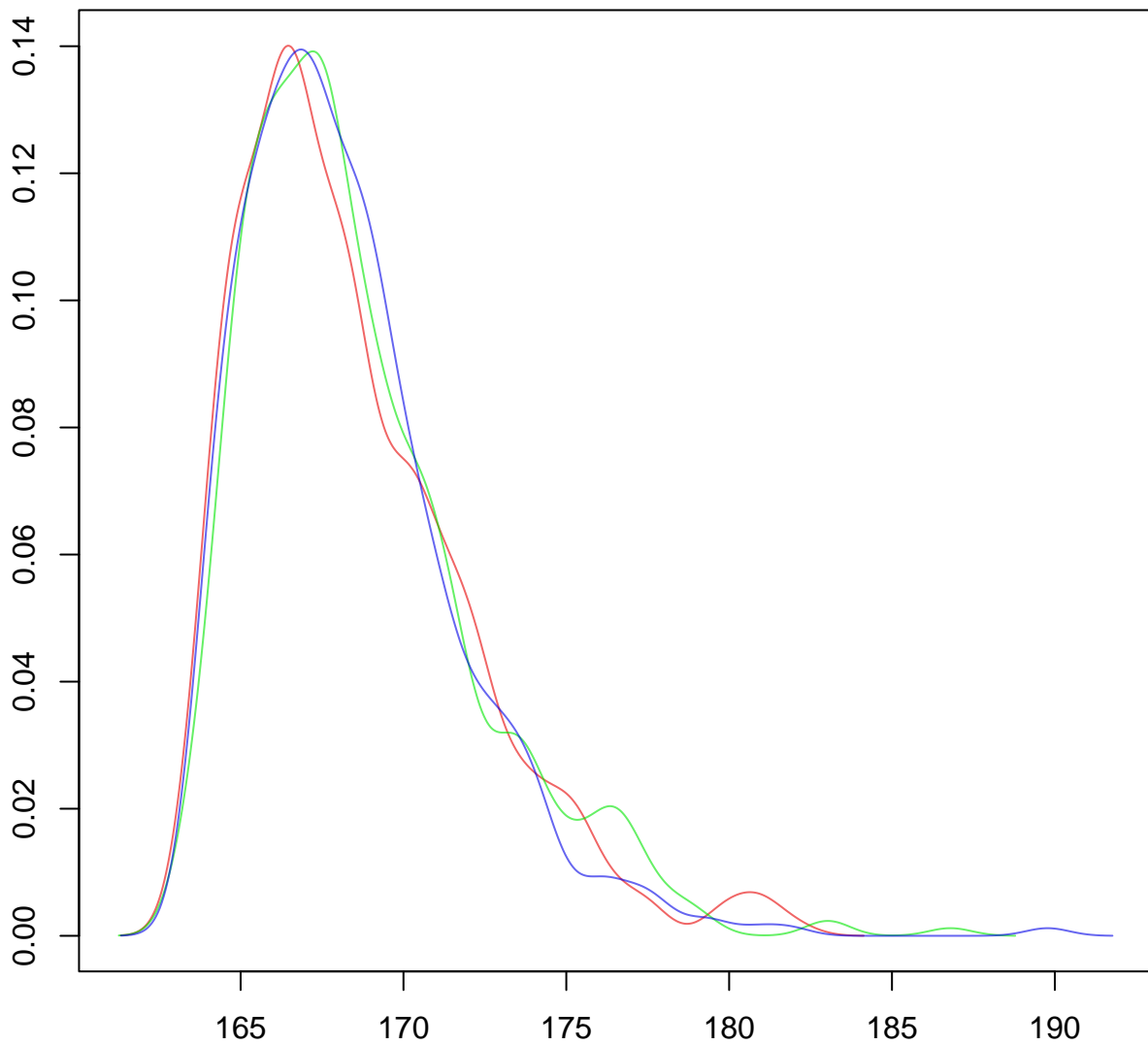


sig\_a

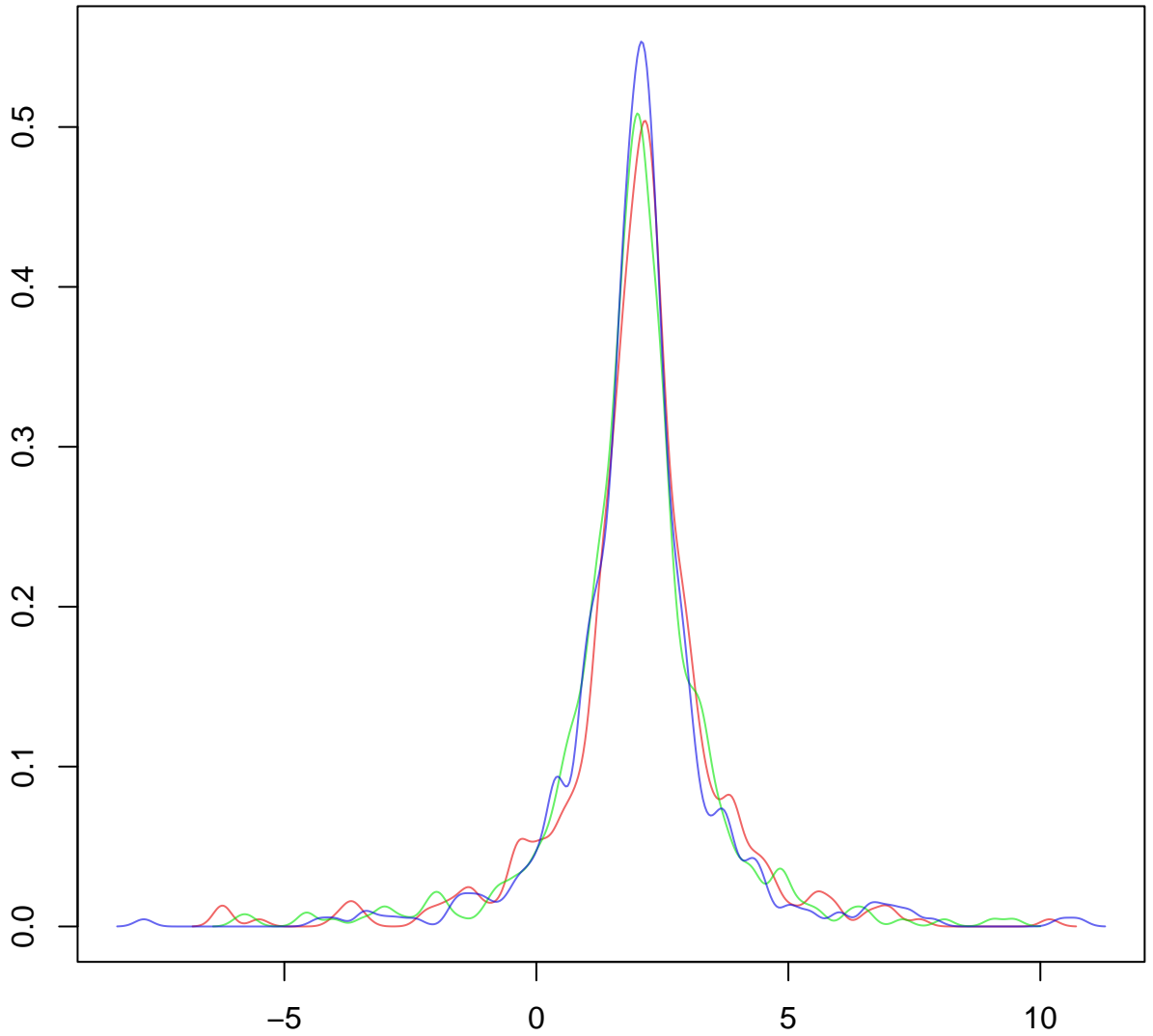




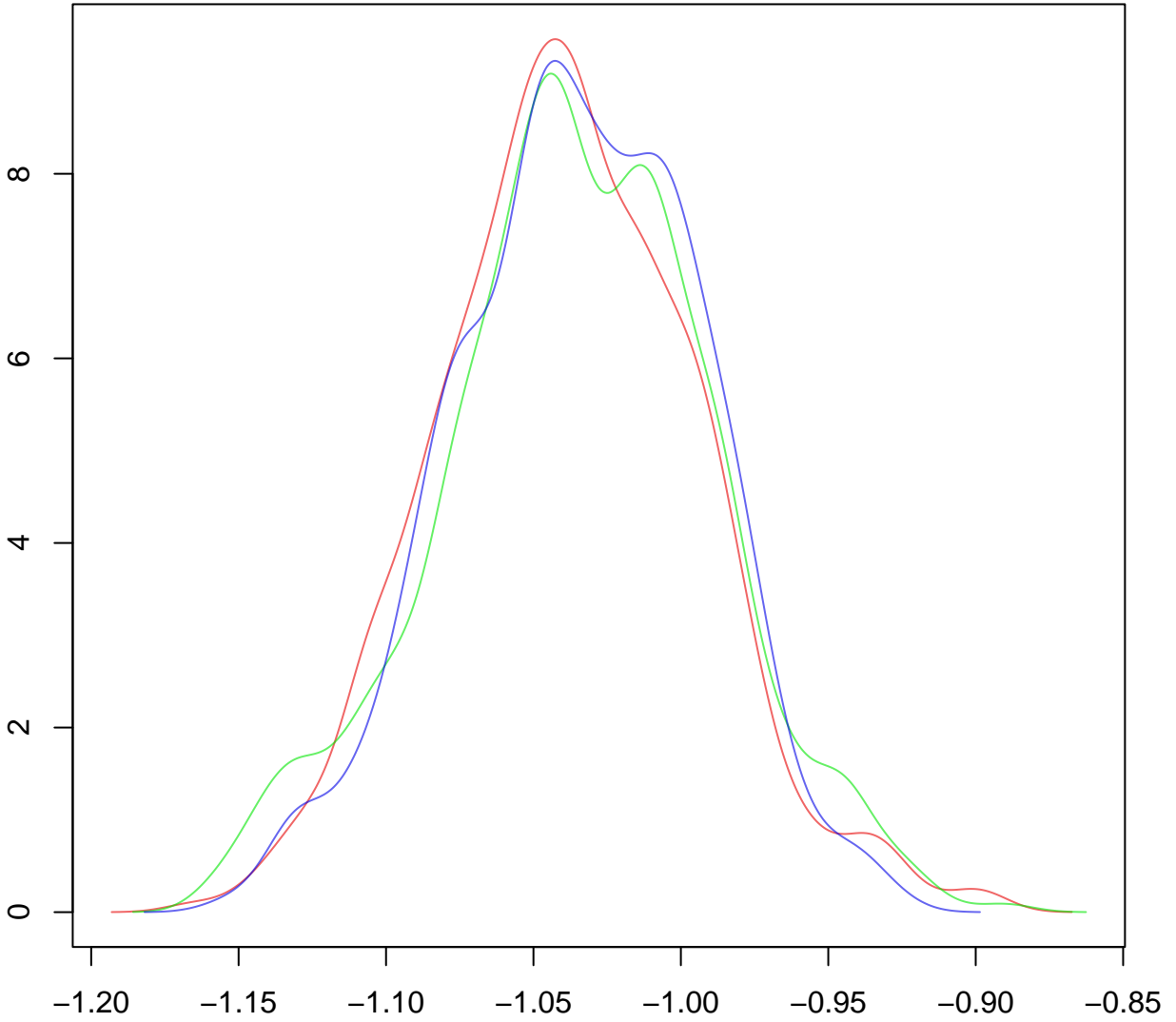
# deviance



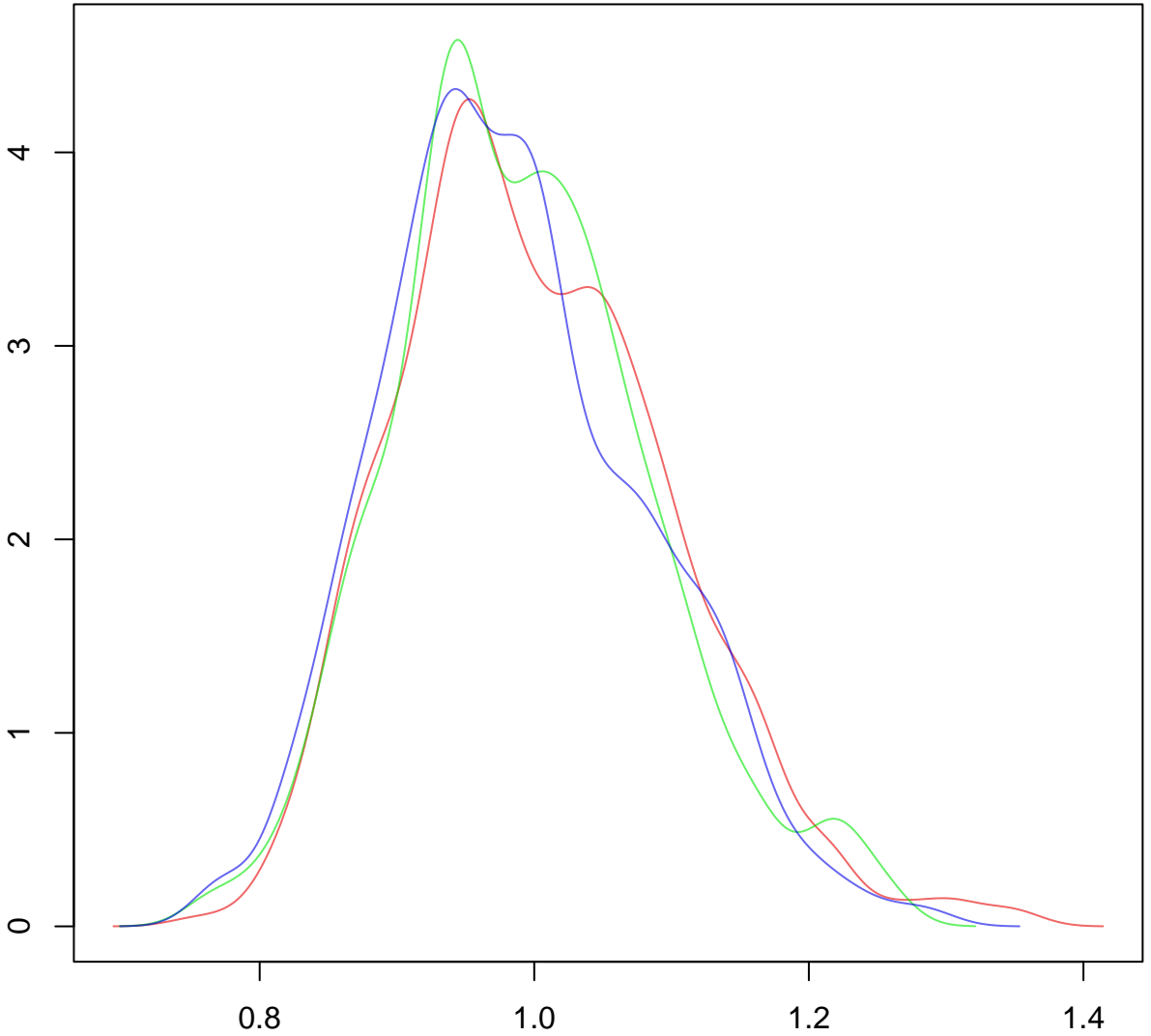
**b0**



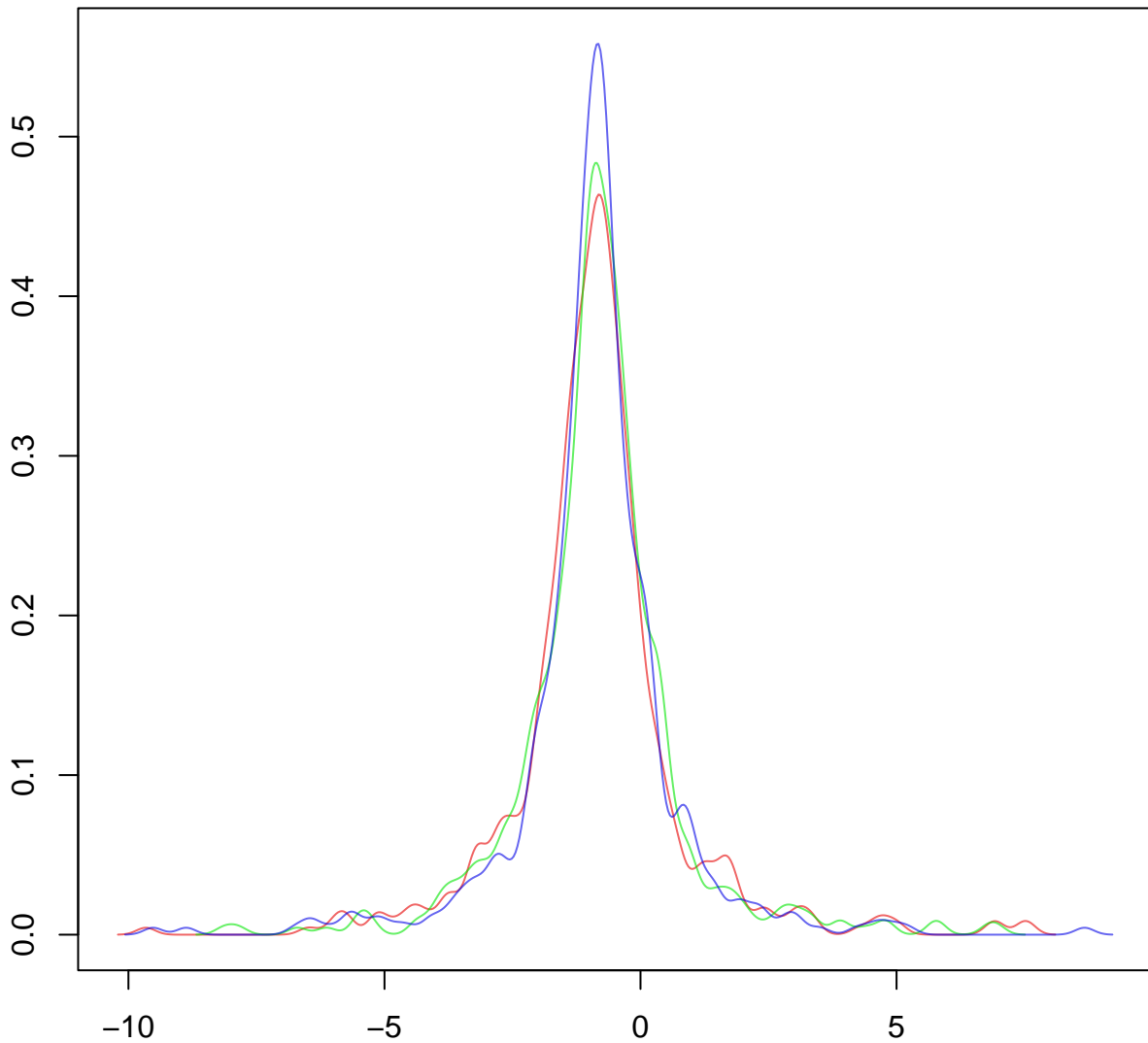
**b1**



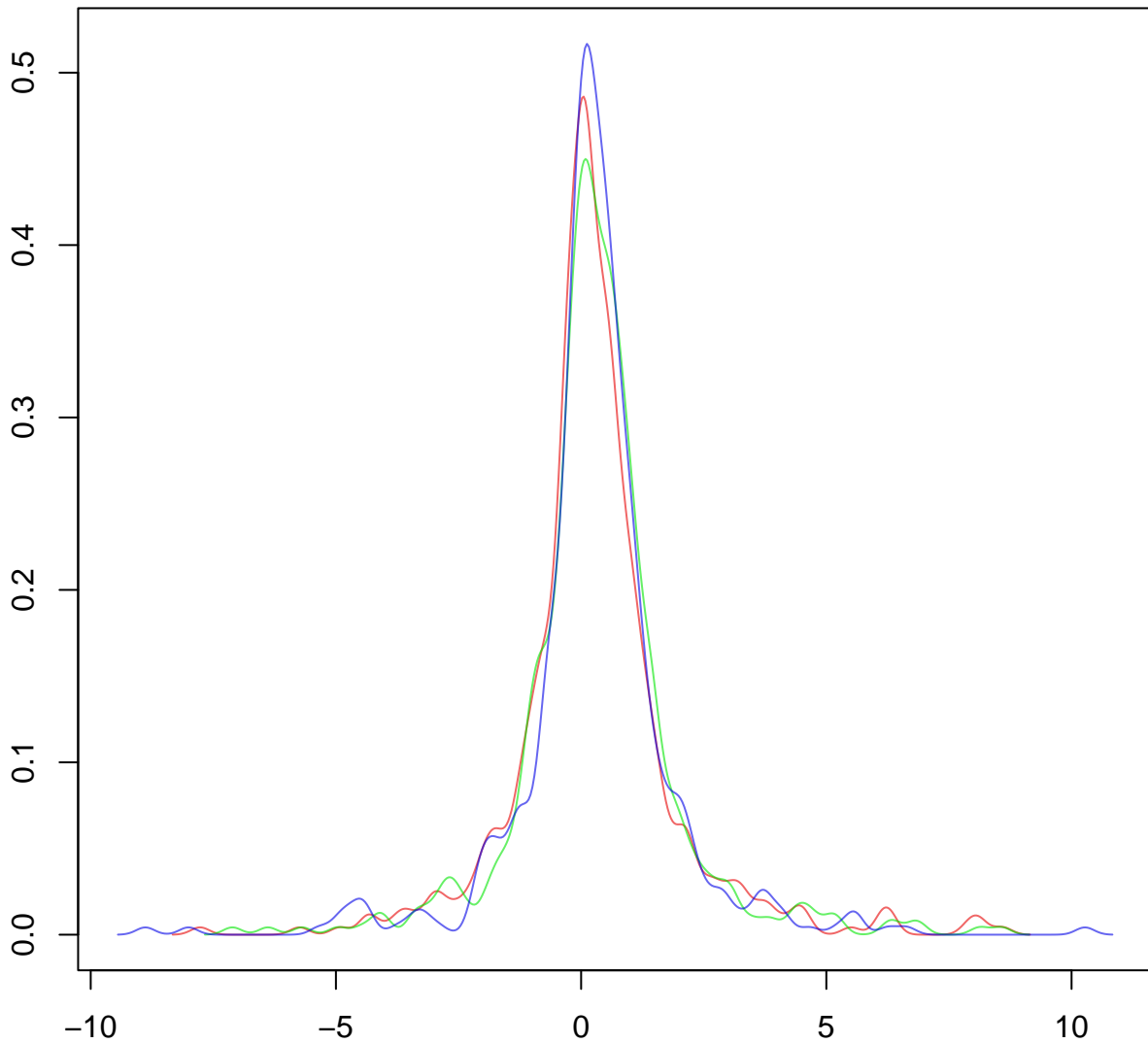
**sig**



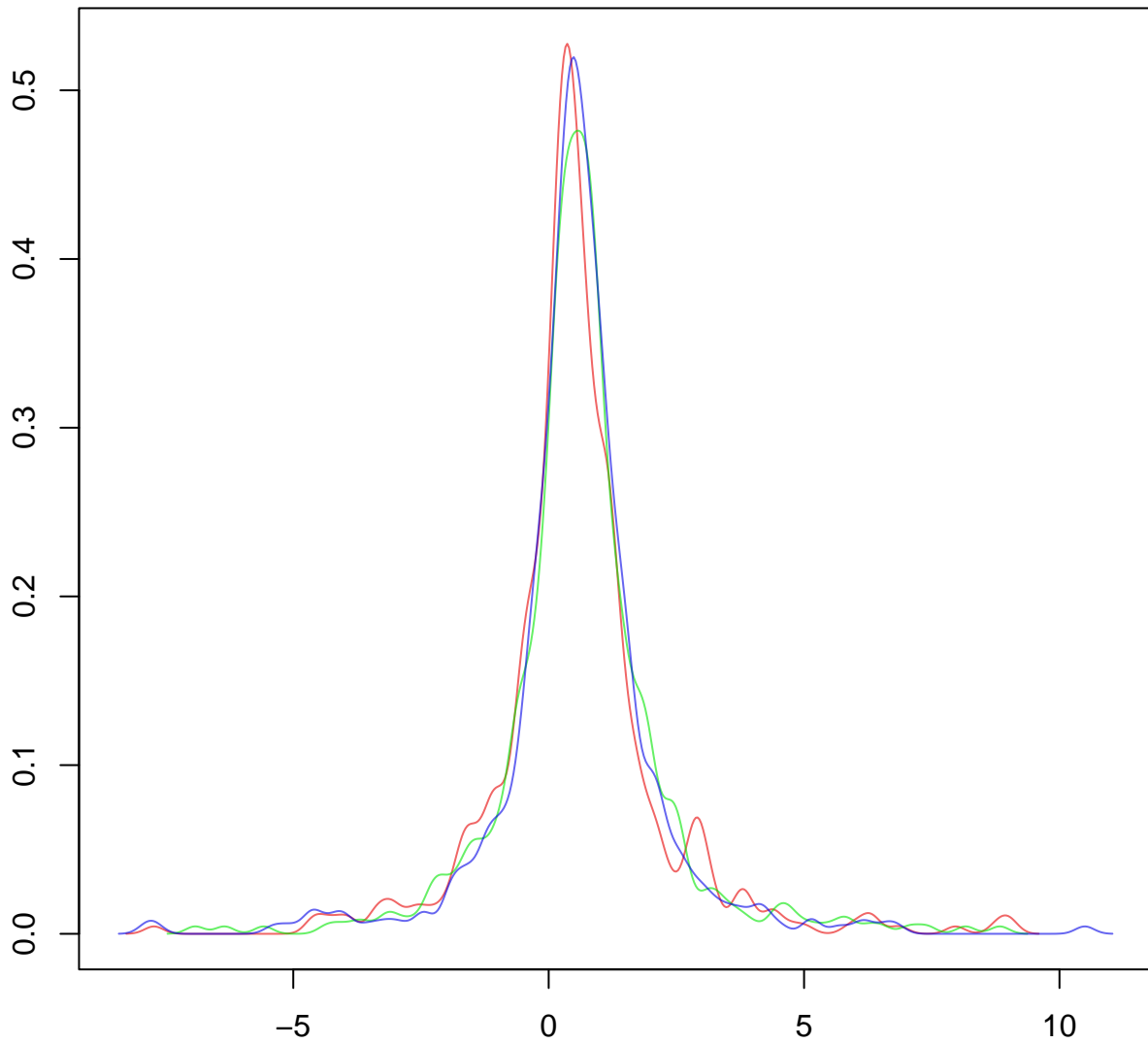
a[1]



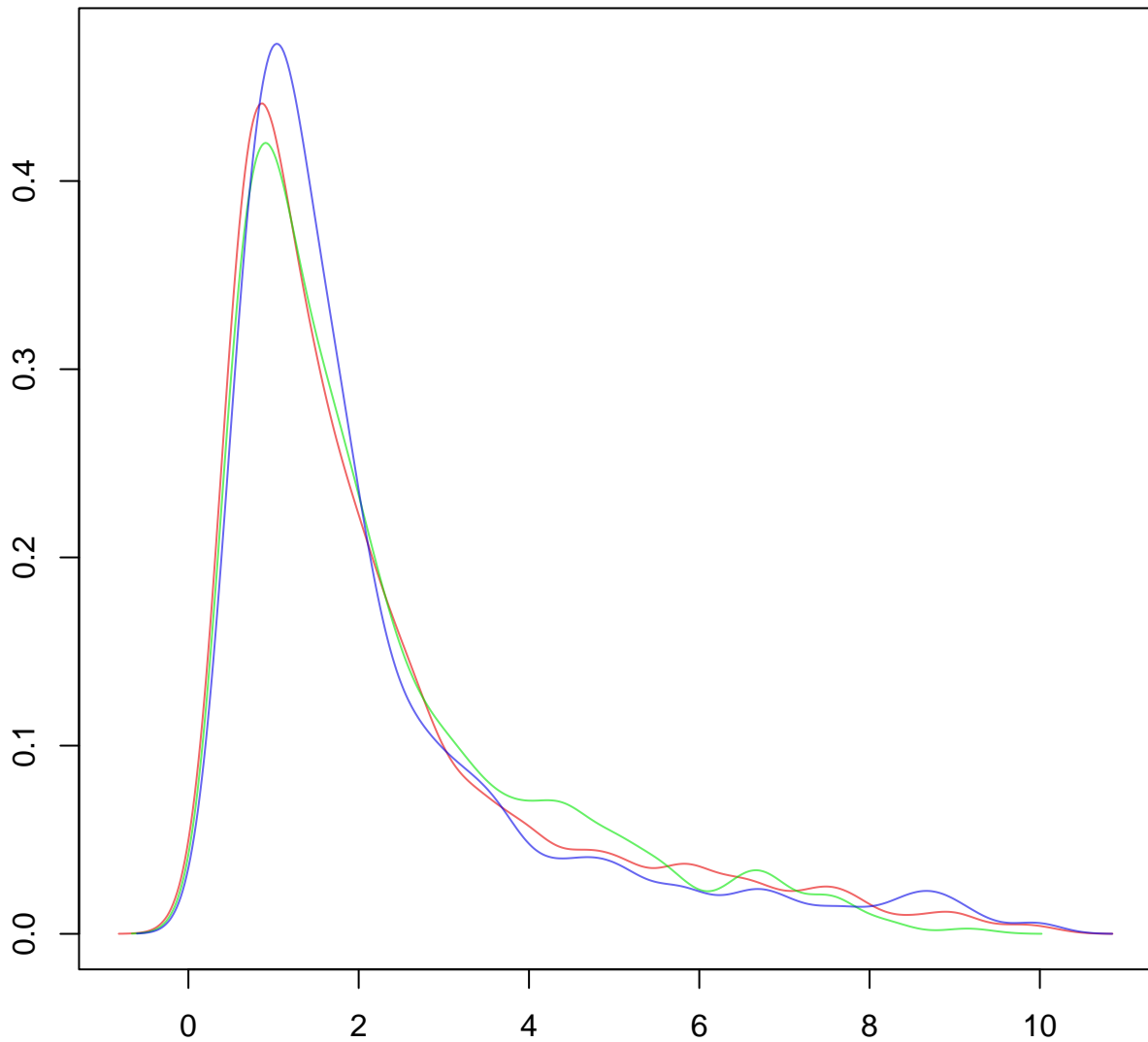
**a[2]**



**a[3]**

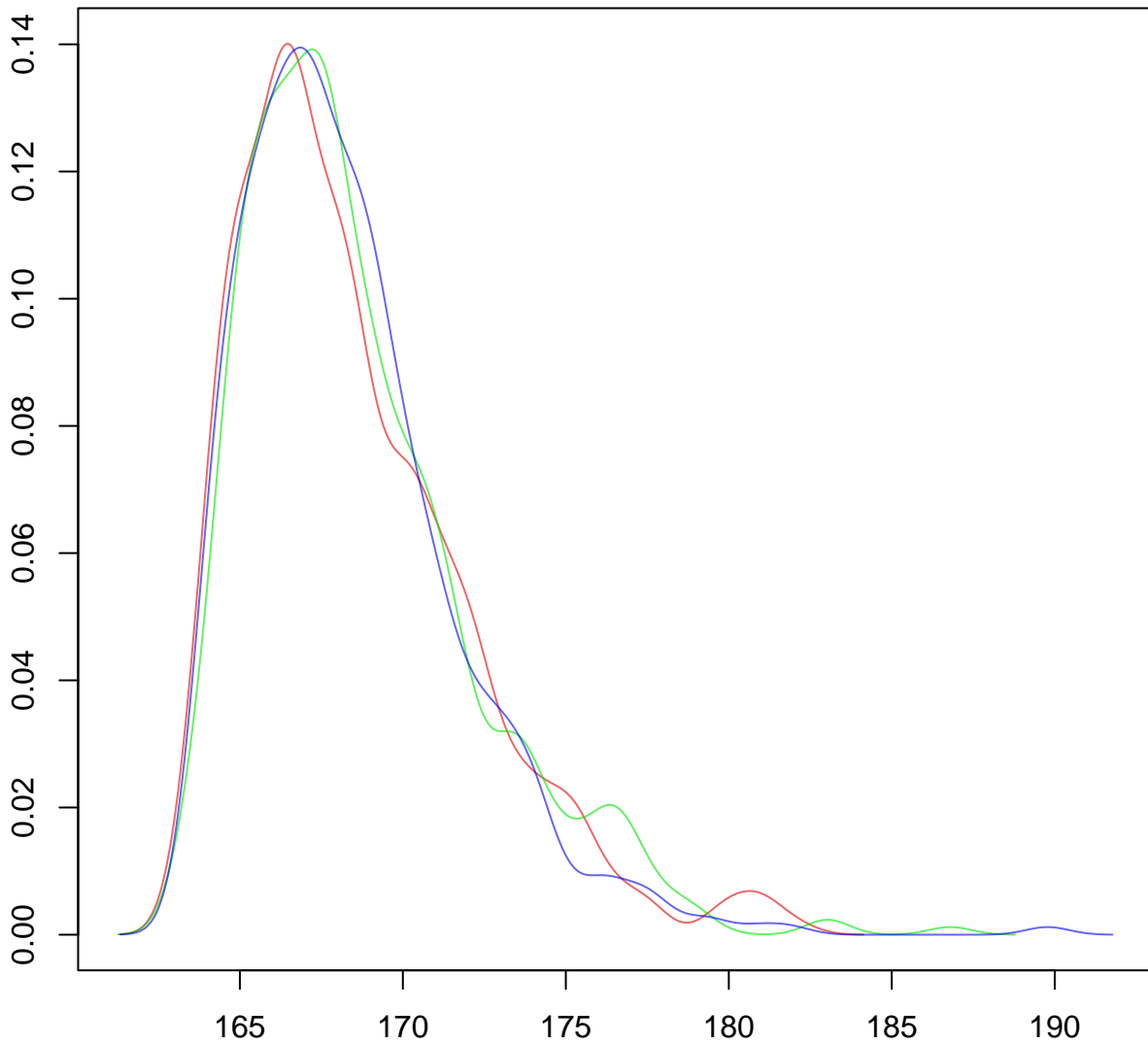


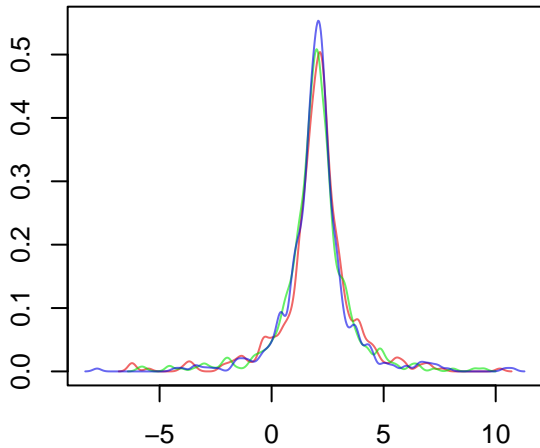
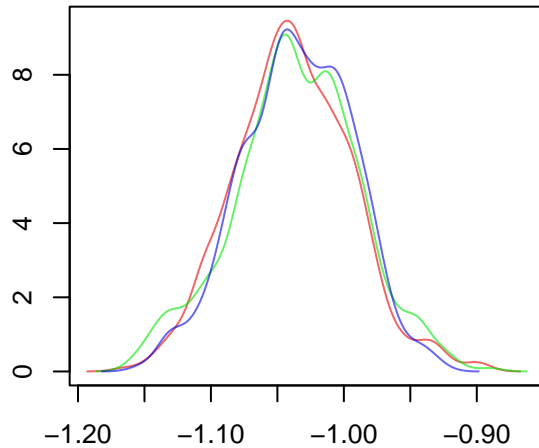
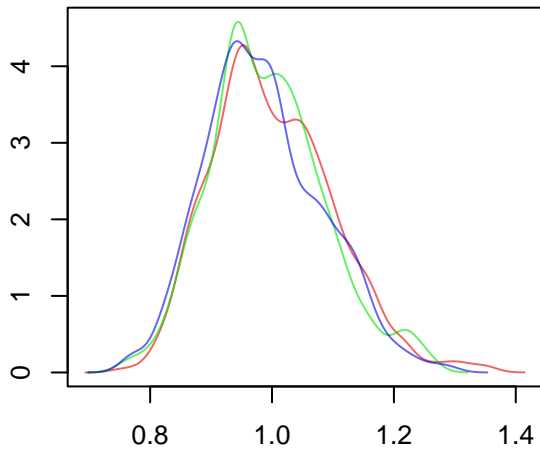
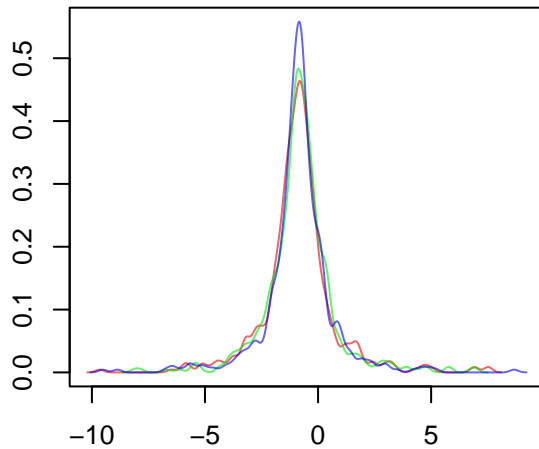
sig\_a

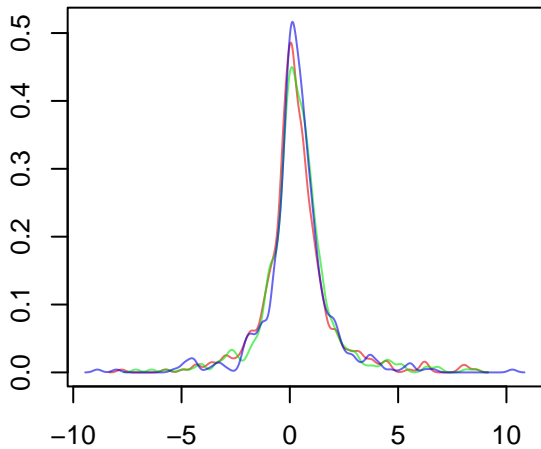
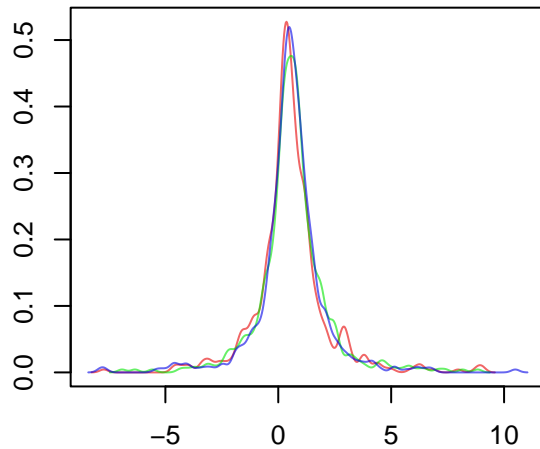
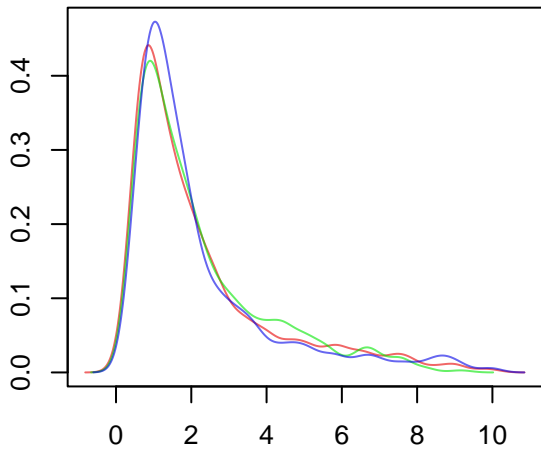
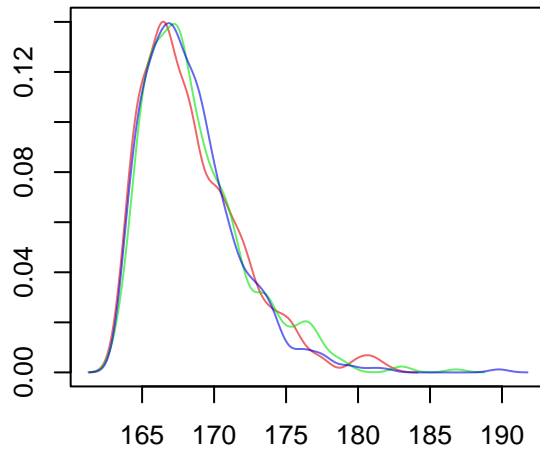


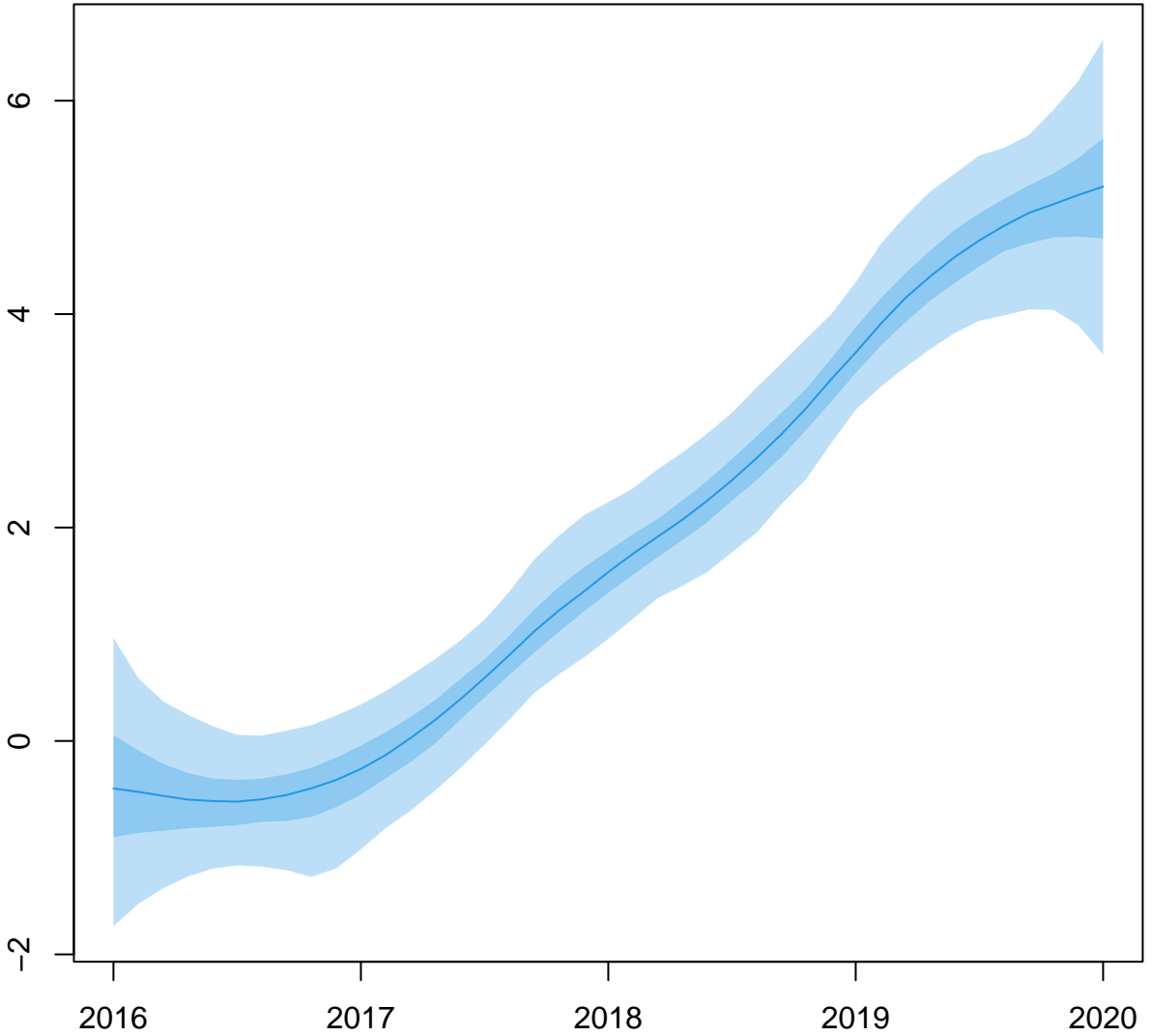


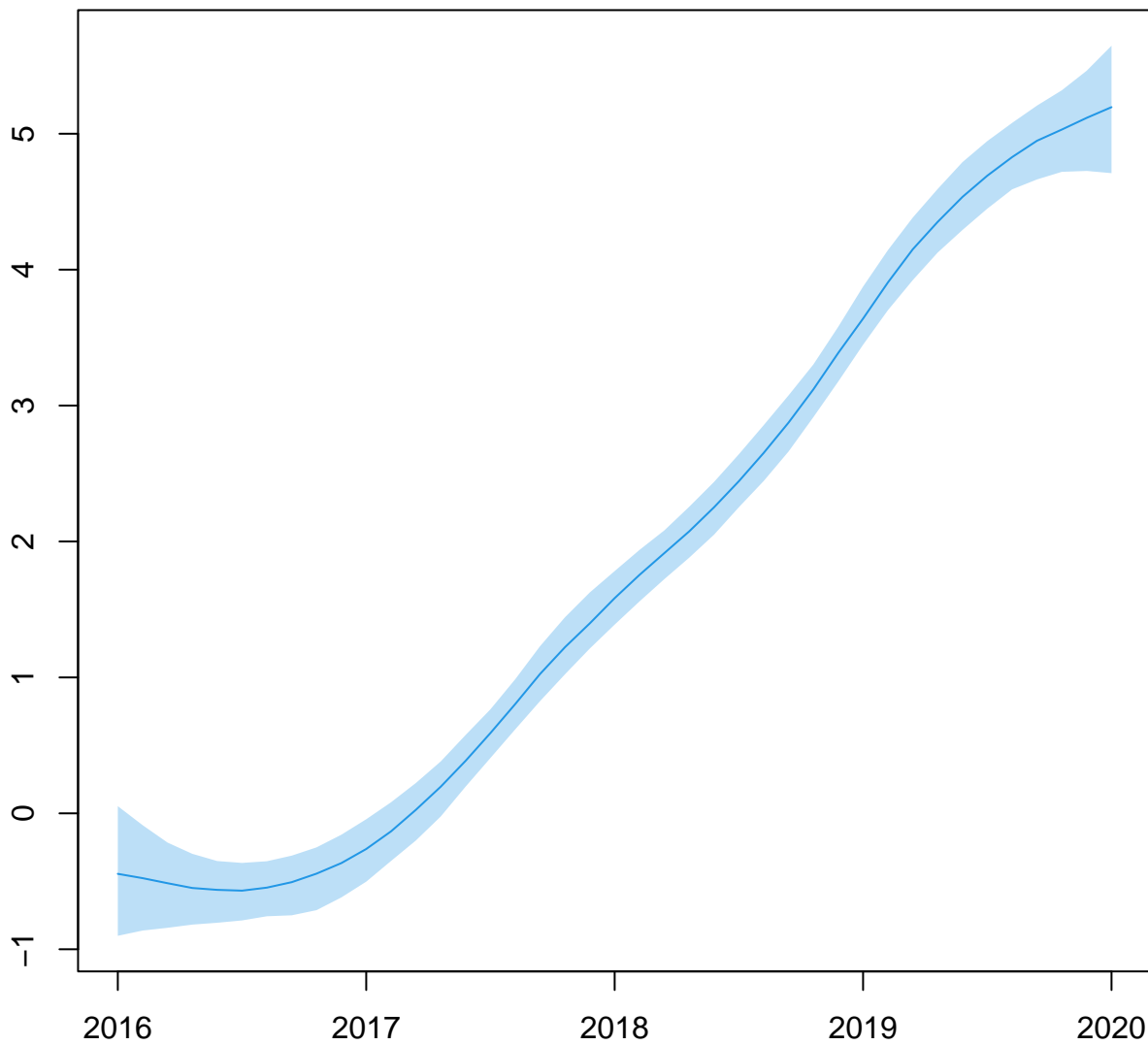
# deviance

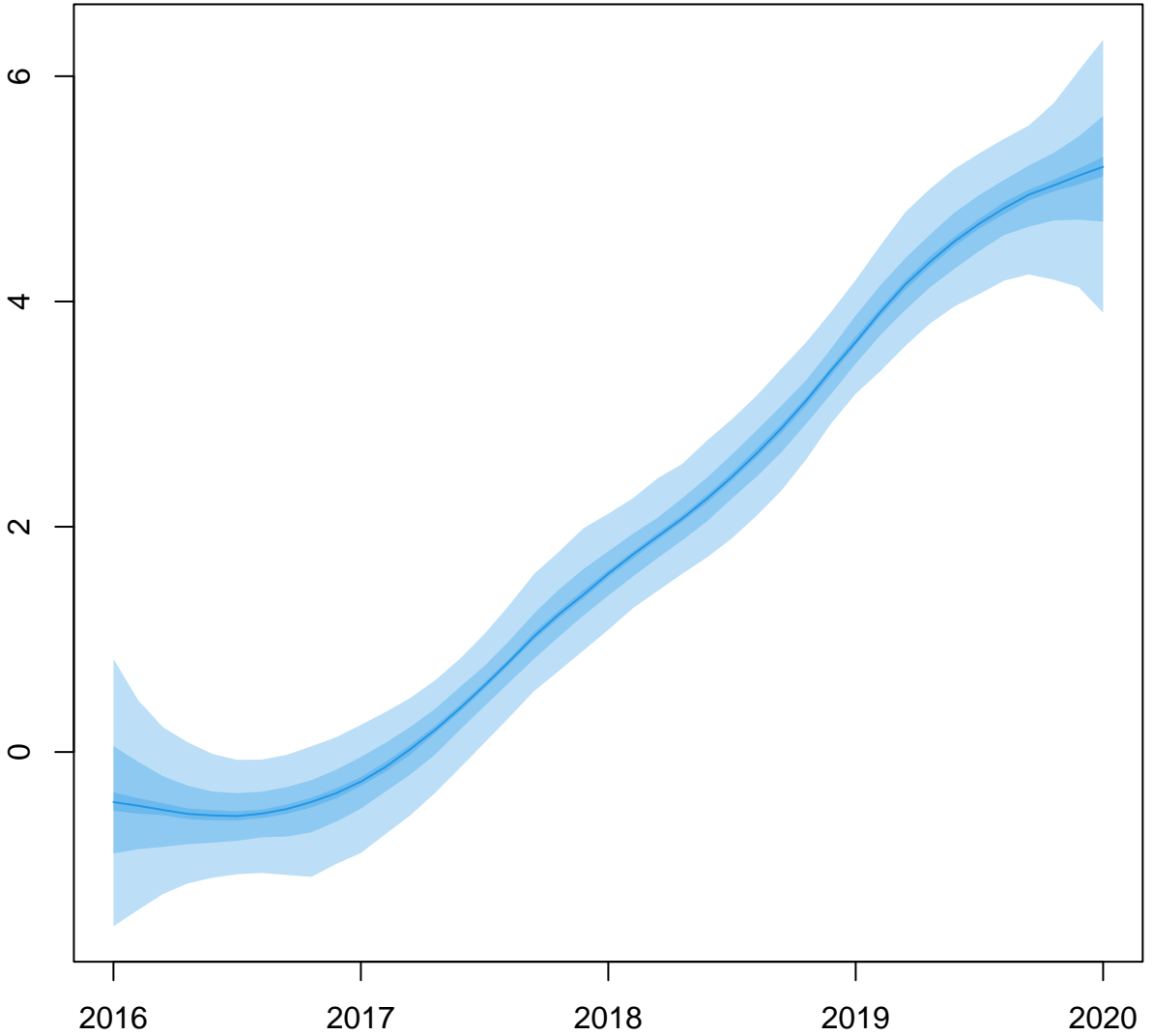


**b0****b1****sig****a[1]**

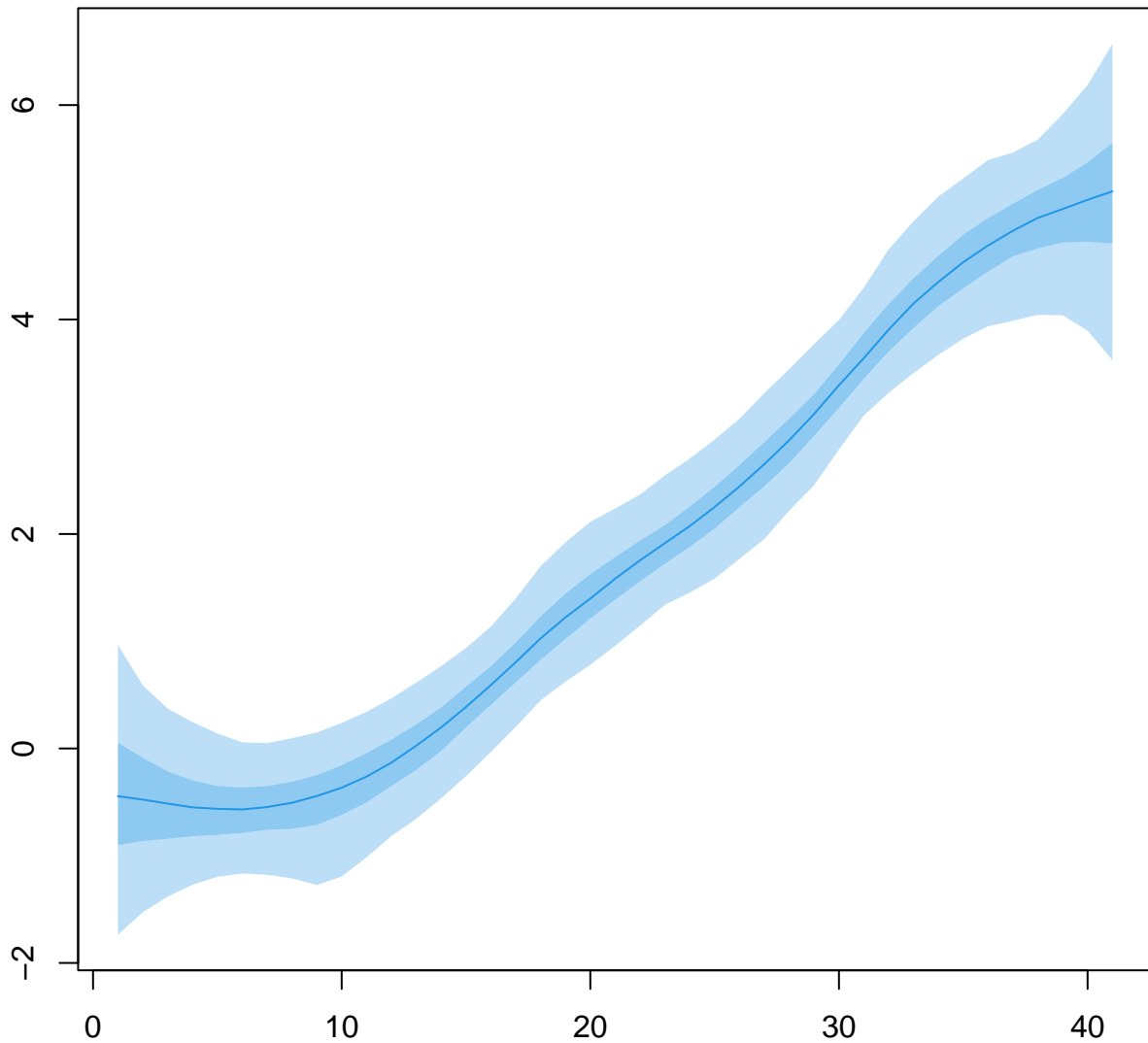
**a[2]****a[3]****sig\_a****deviance**



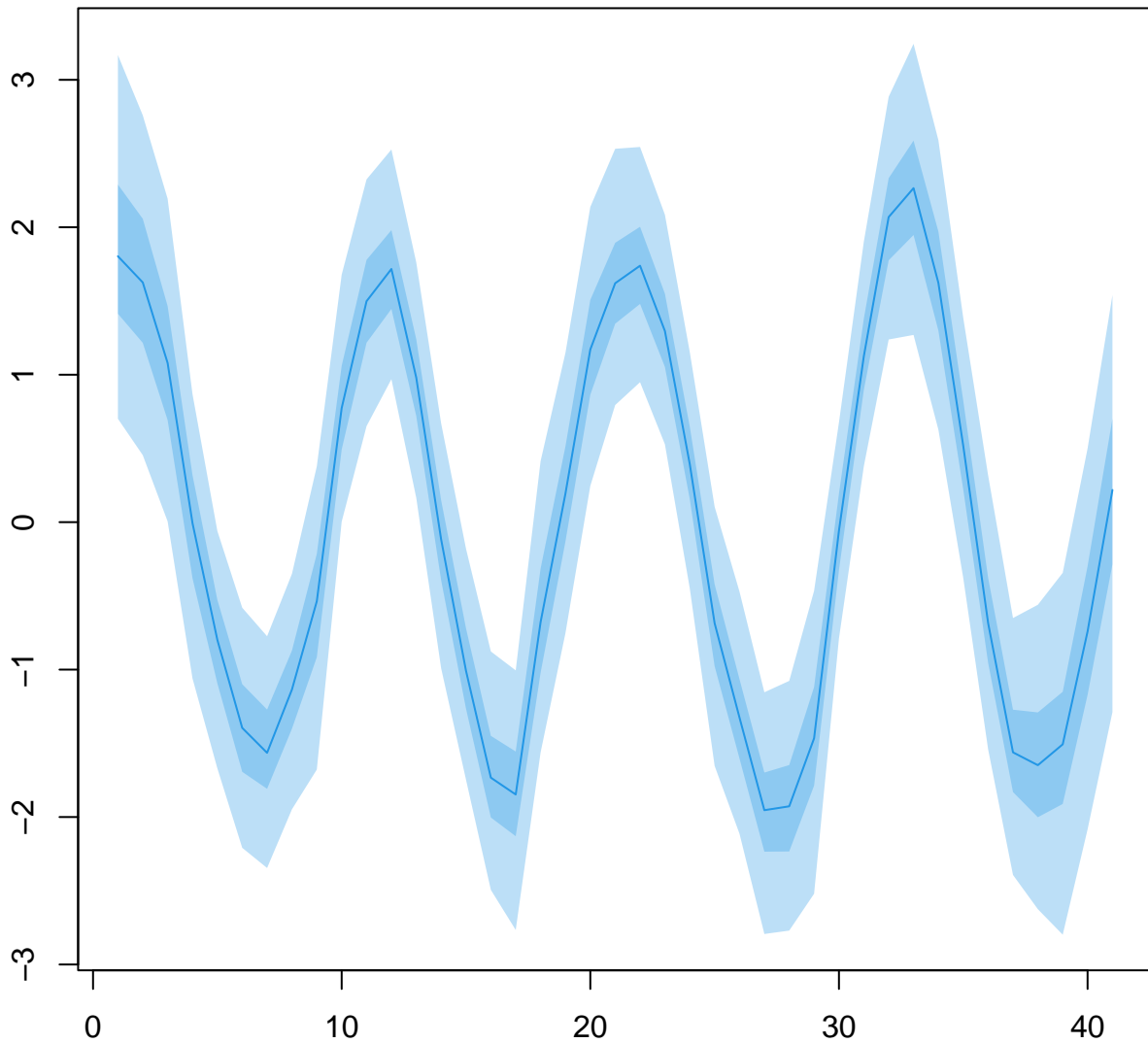




# trend

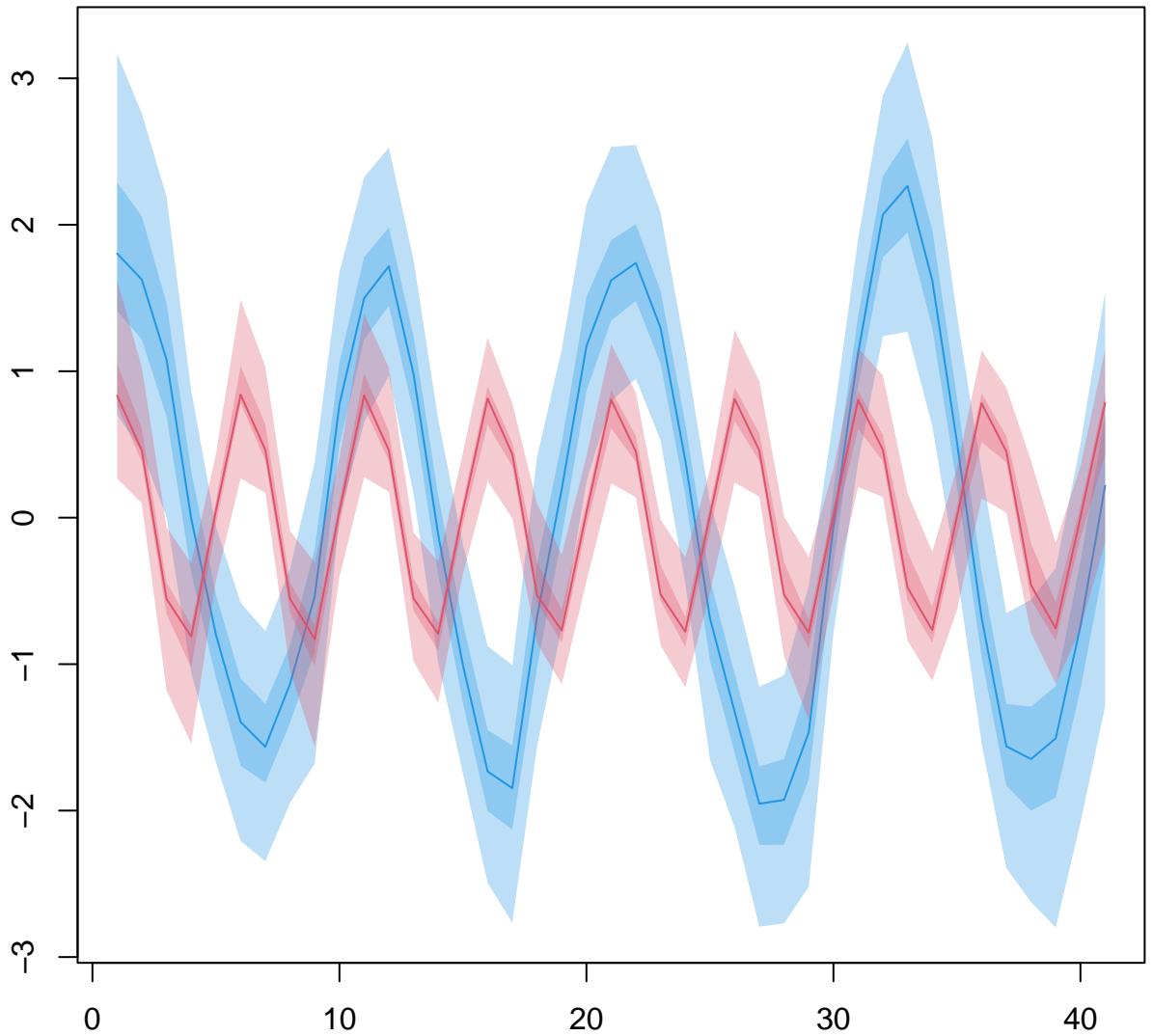


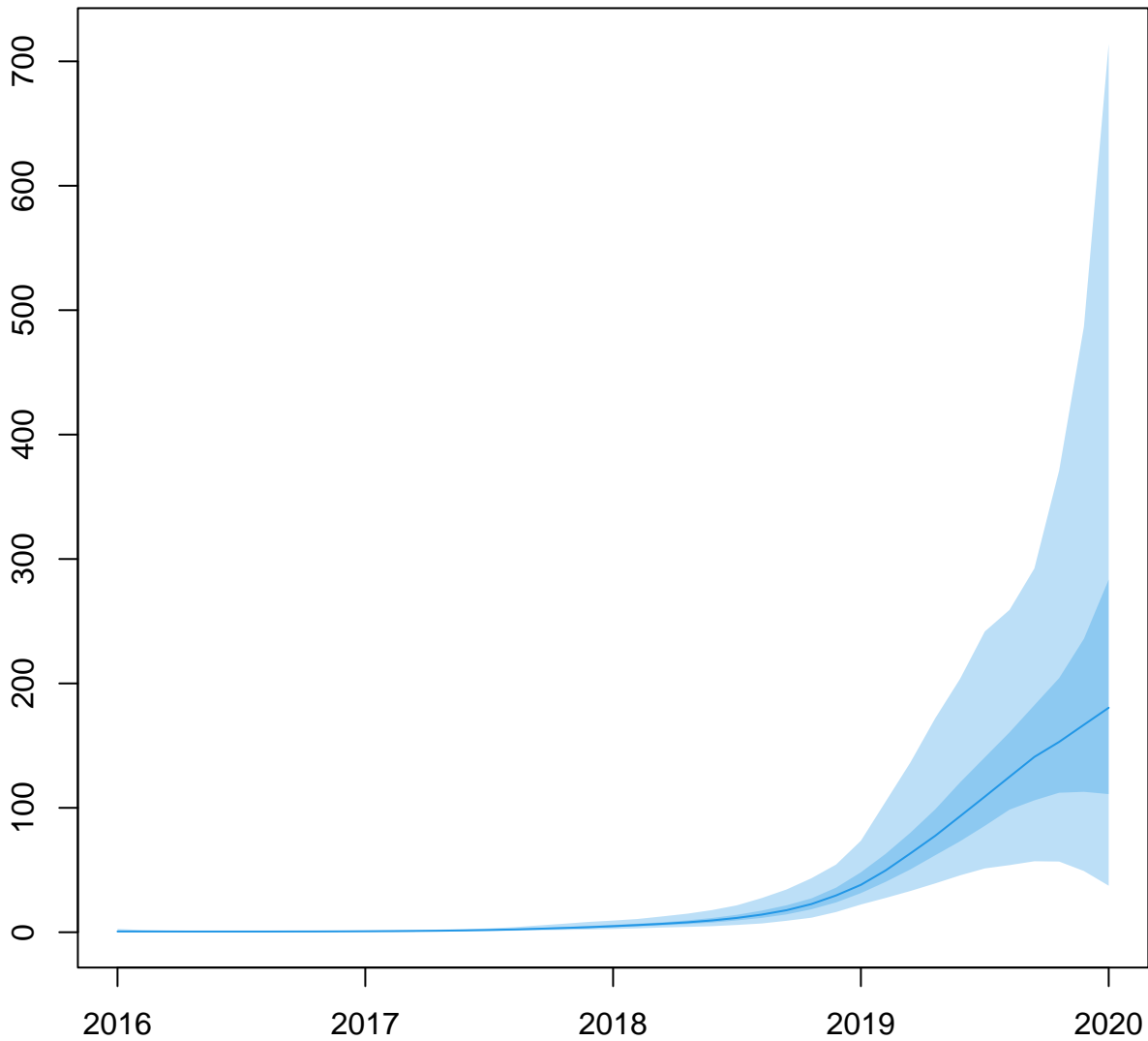
**cycle\_s[,1]**

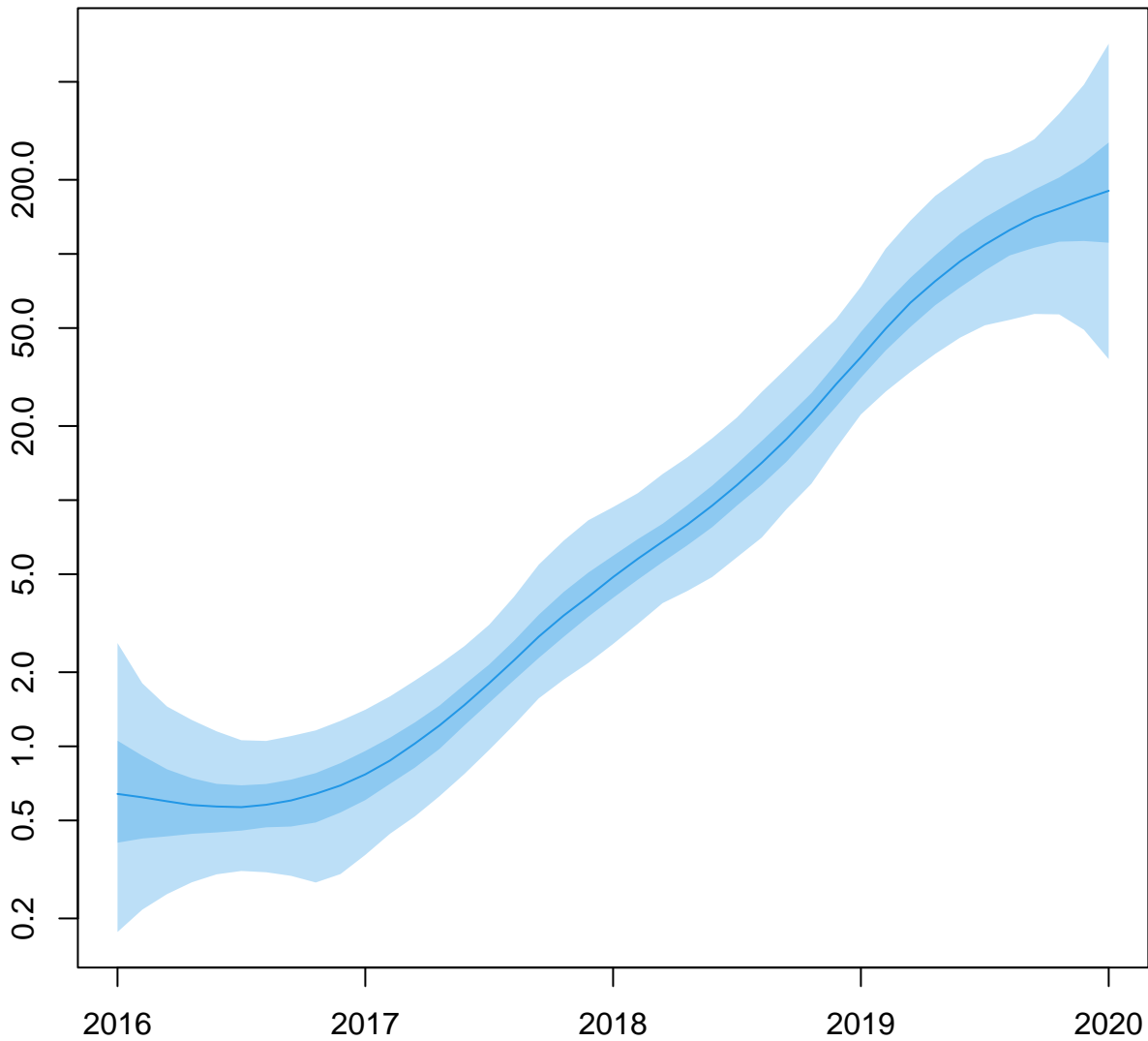




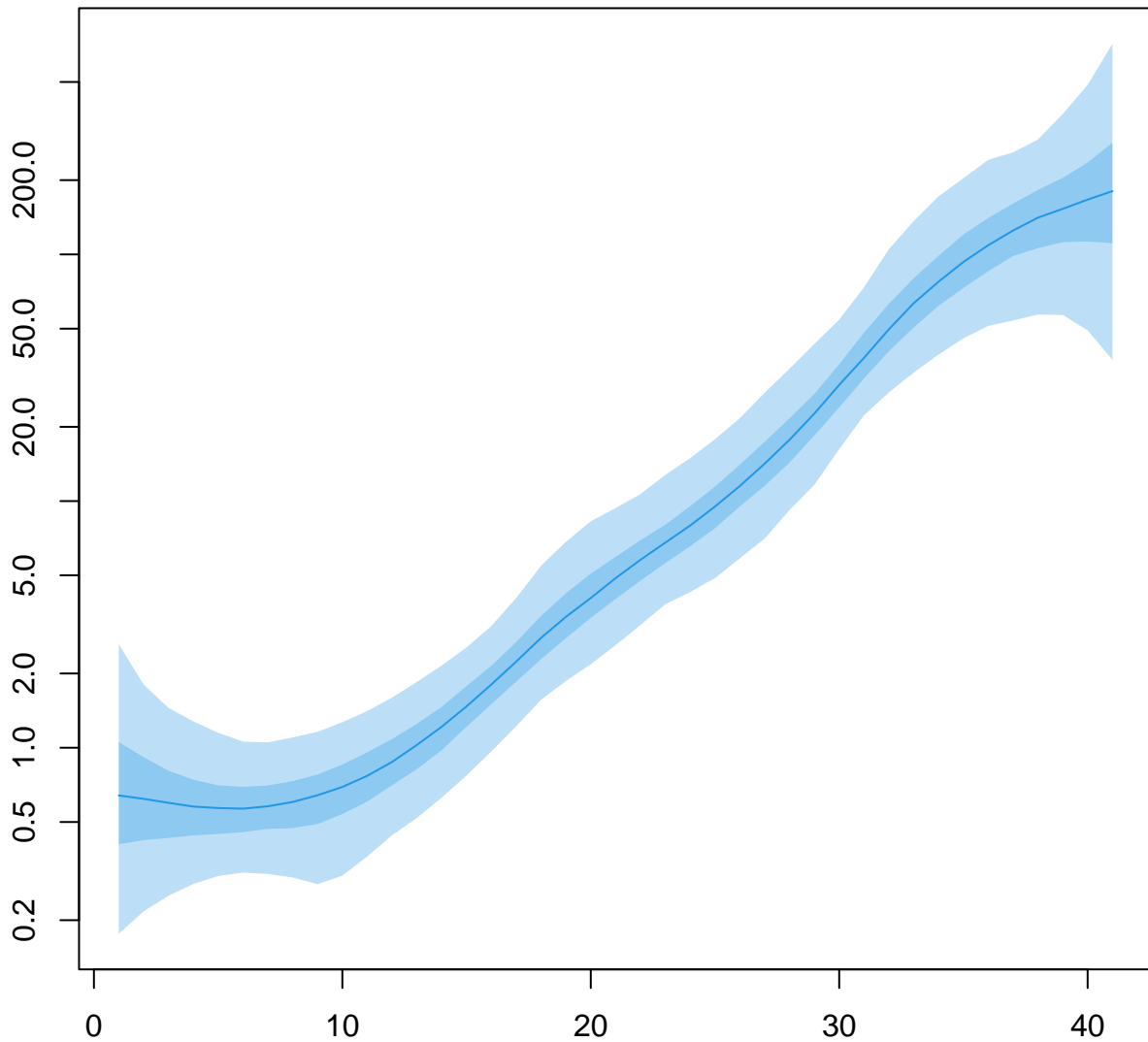
cycle\_s



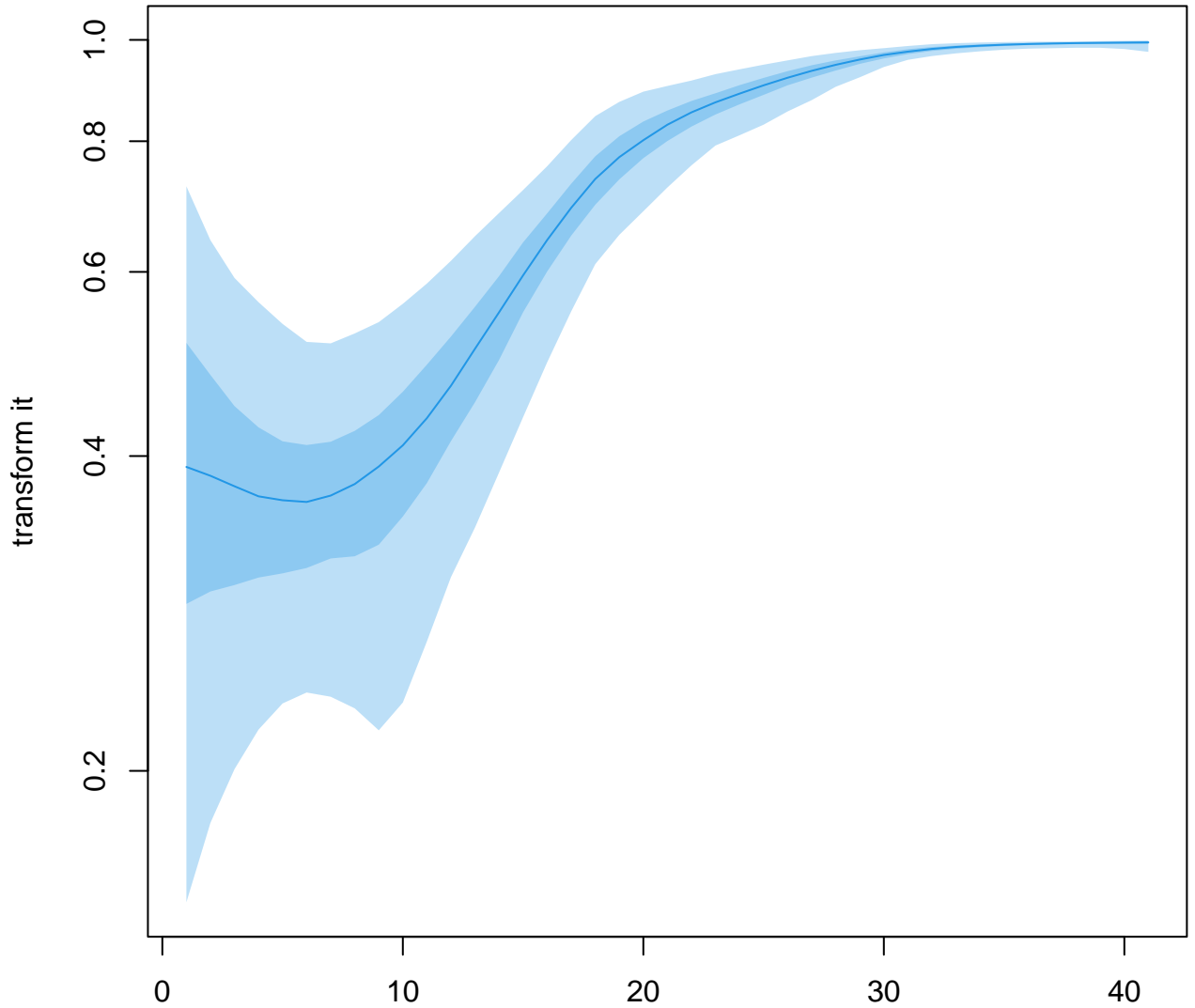


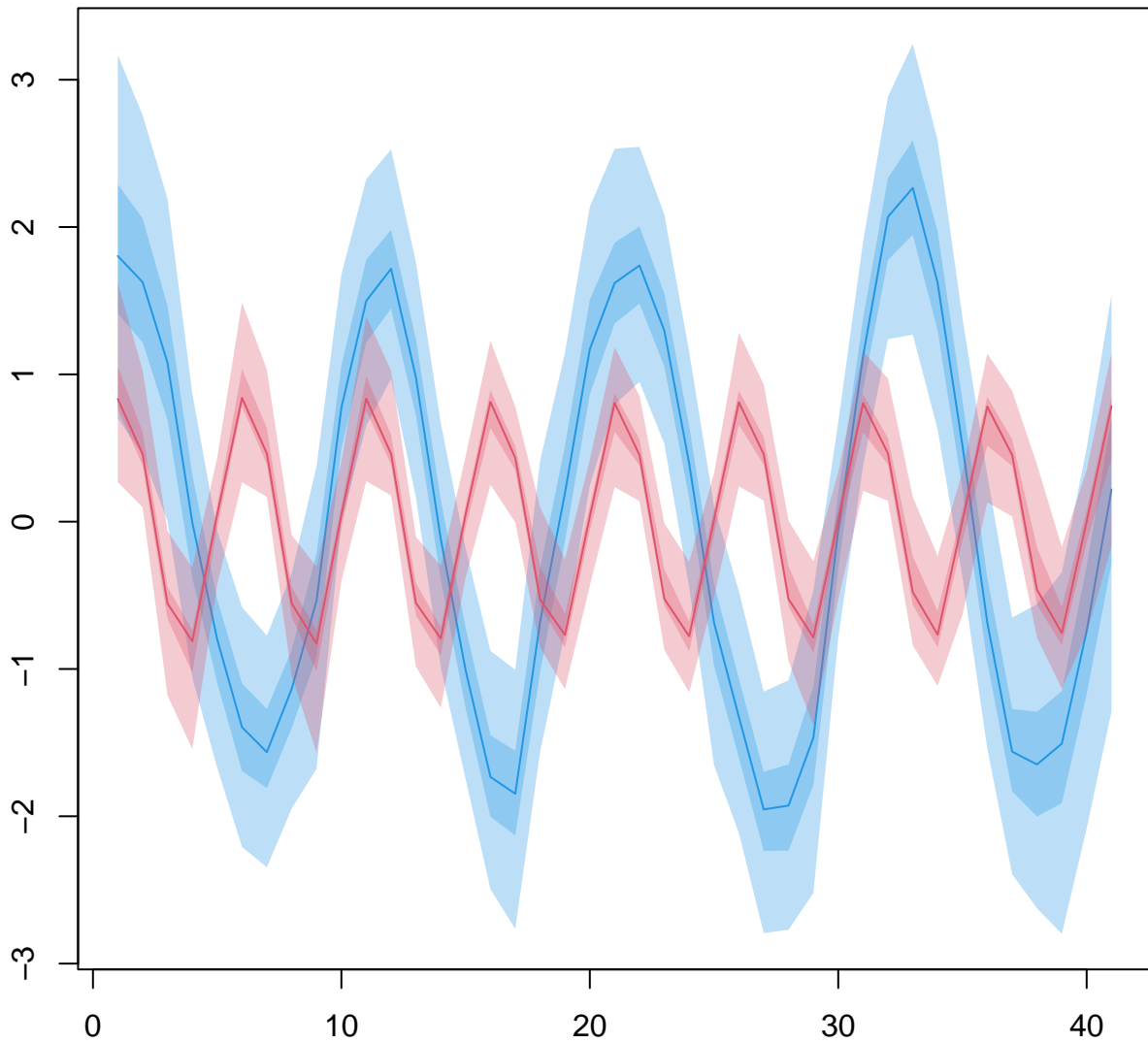


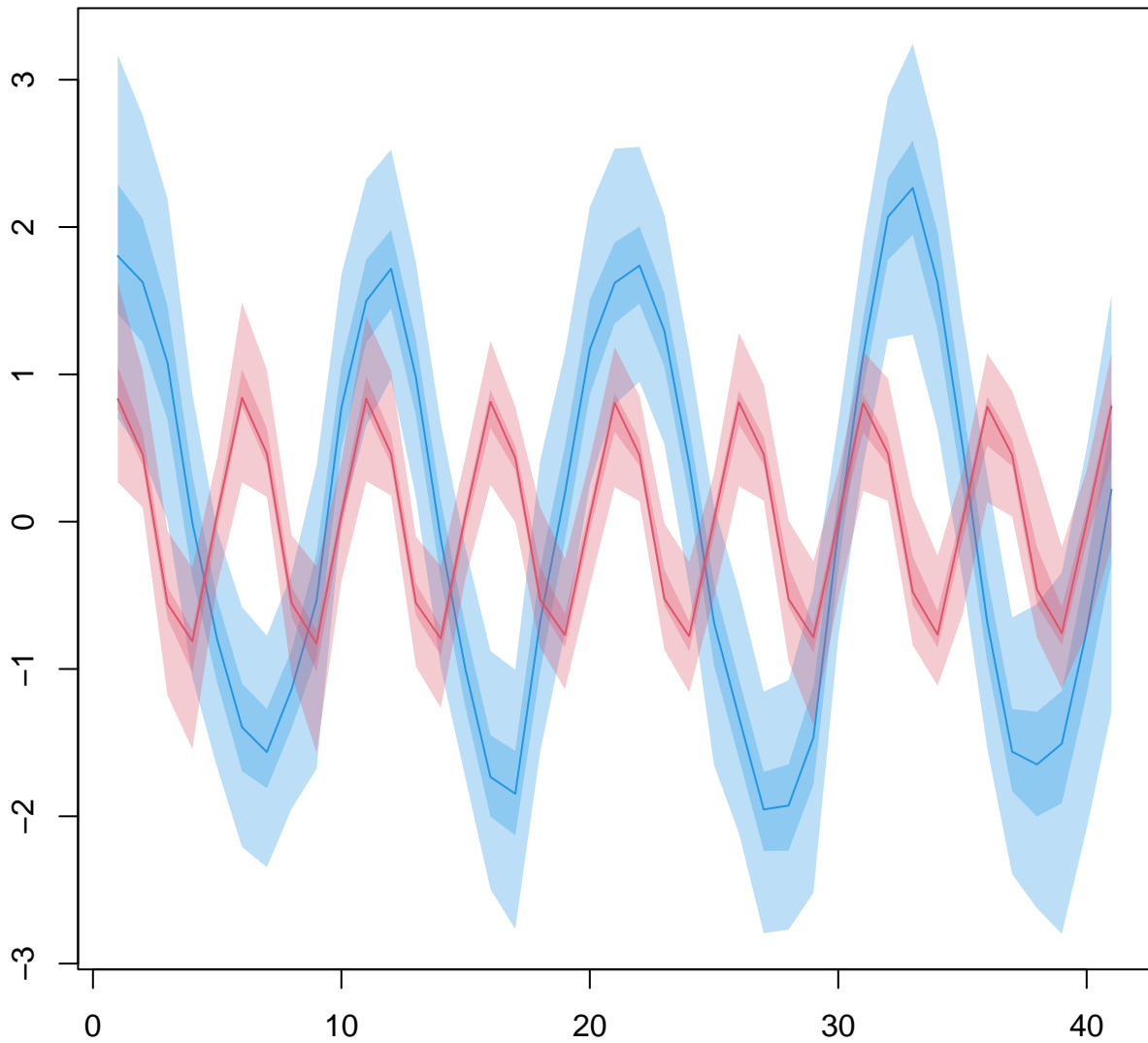
# trend



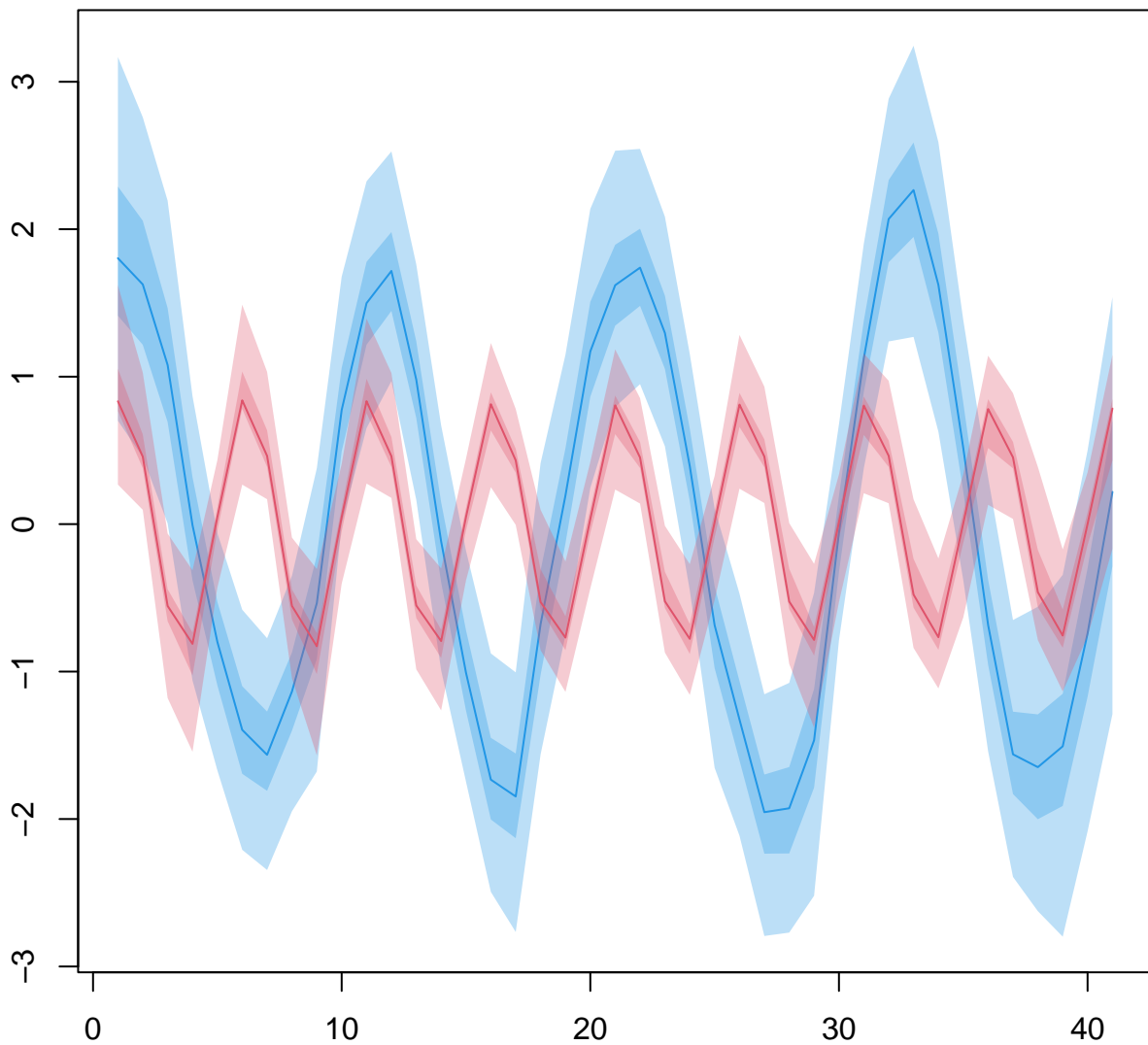
# trend



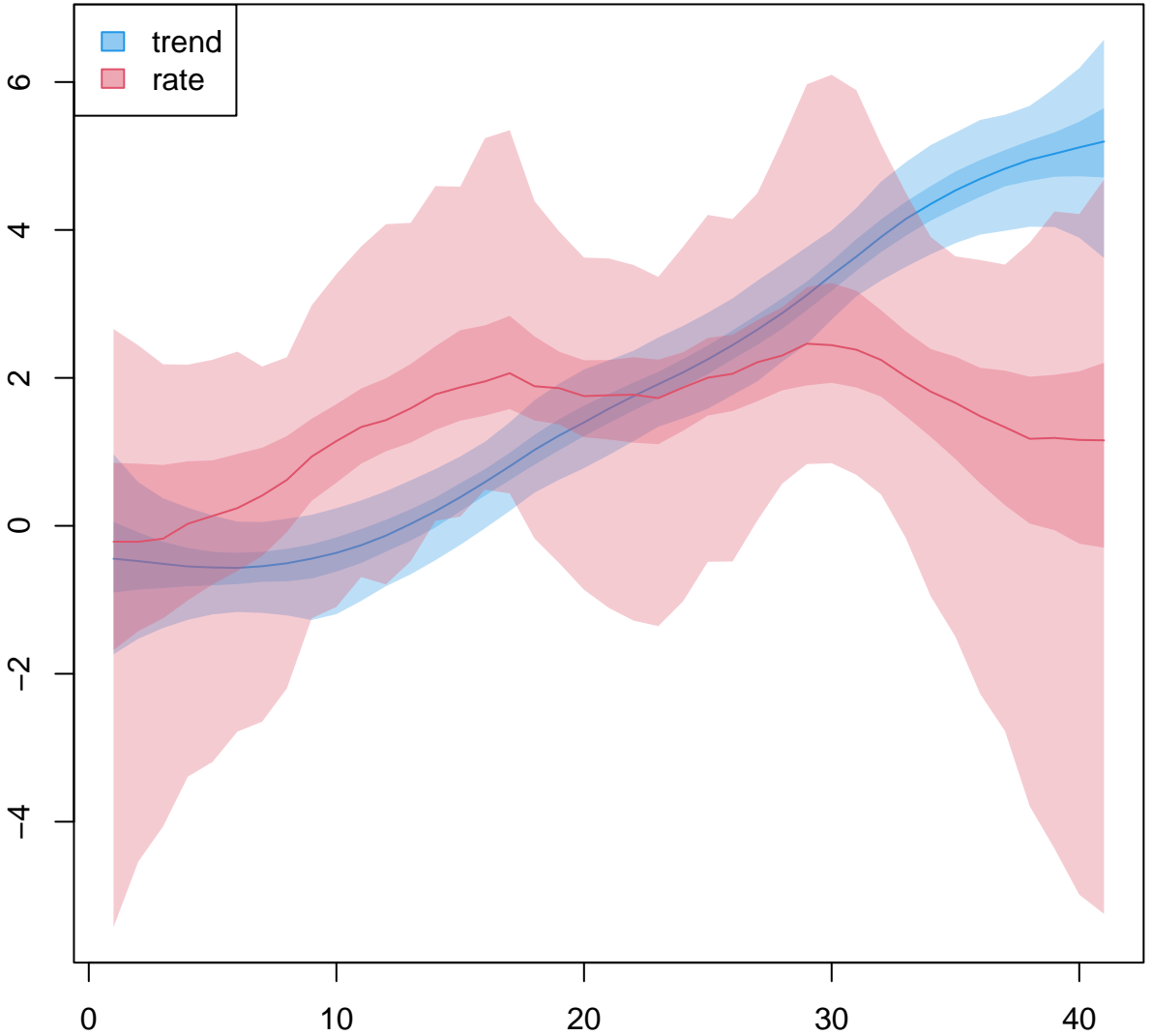


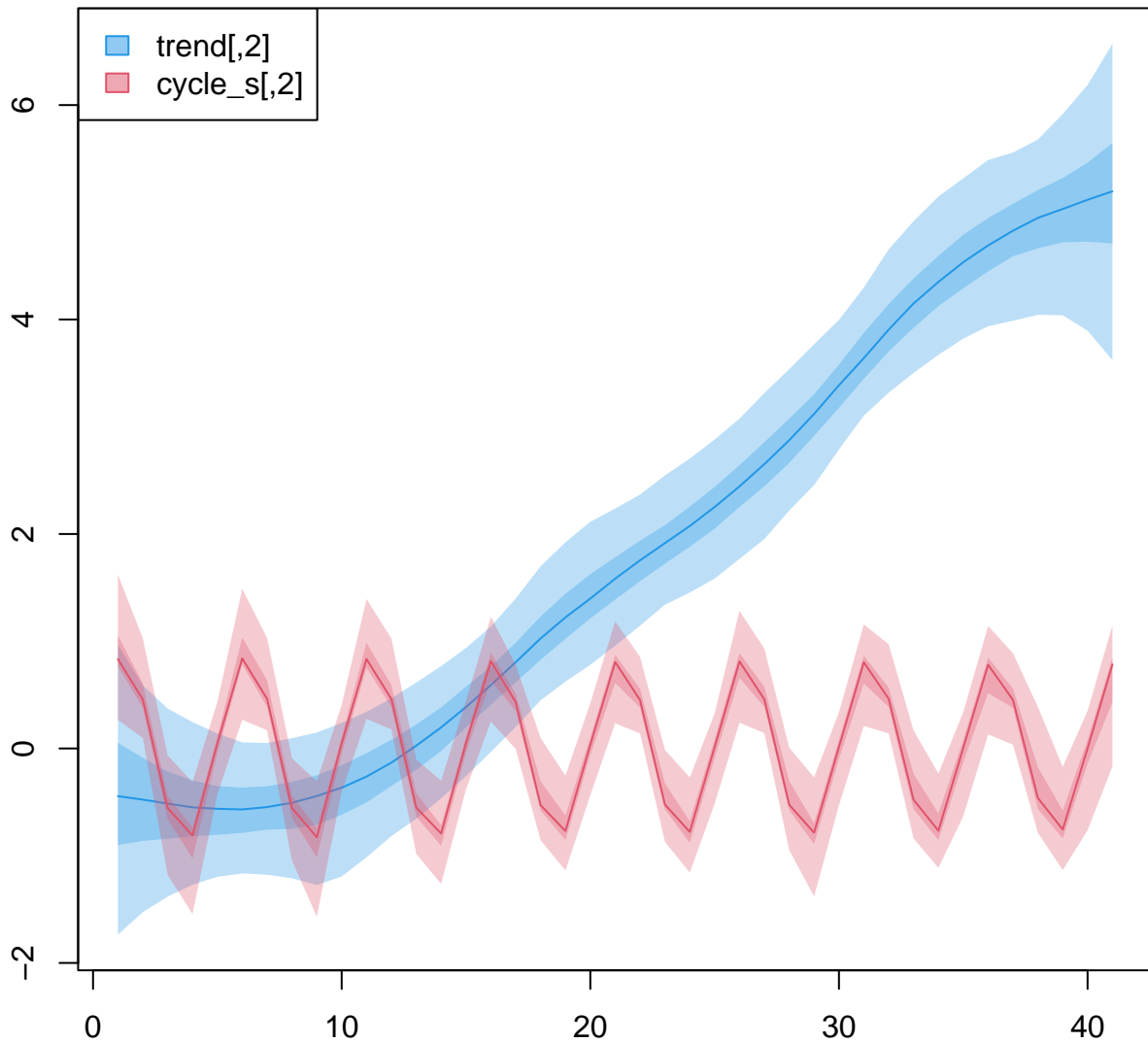


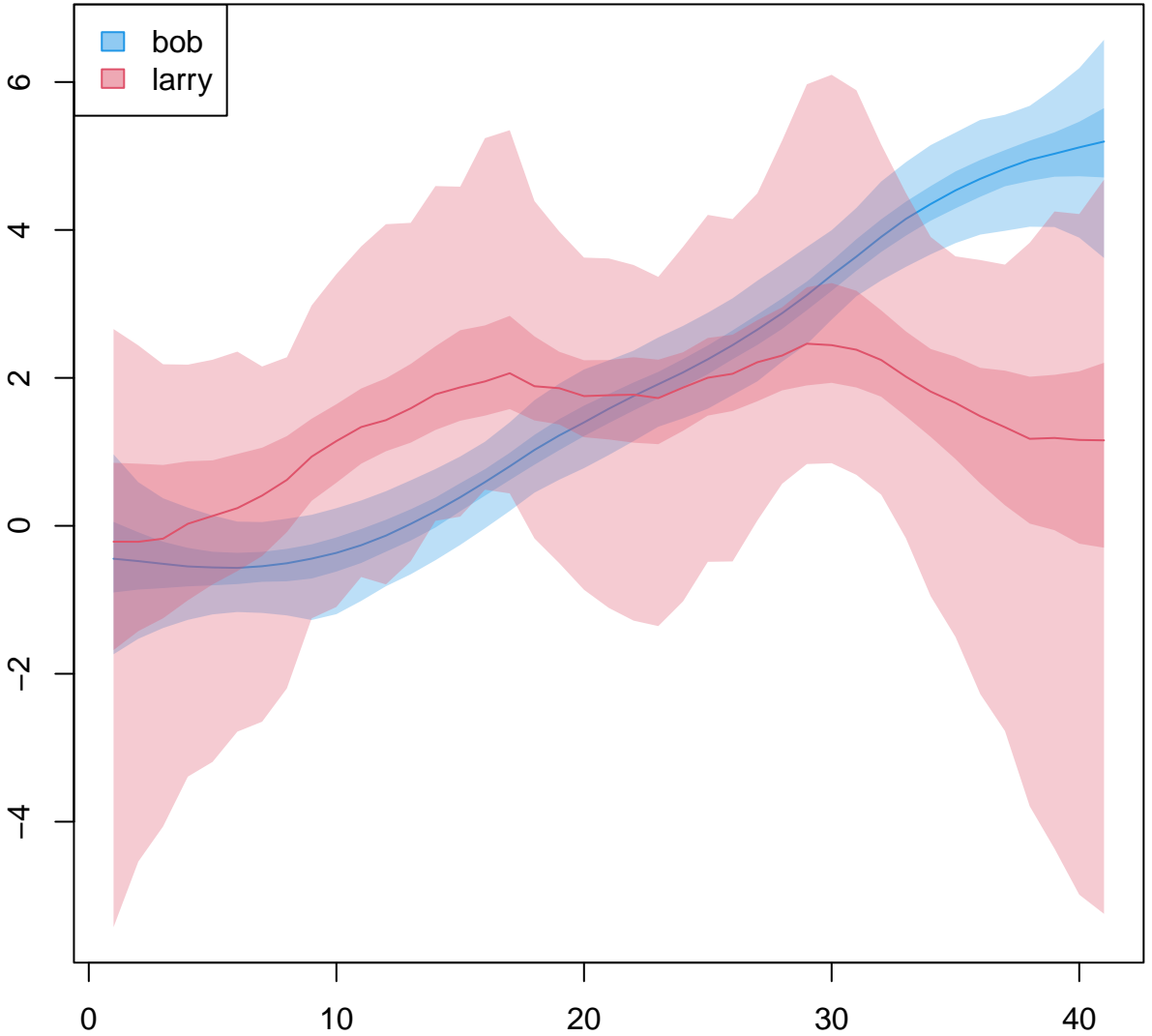
**cycle\_s**



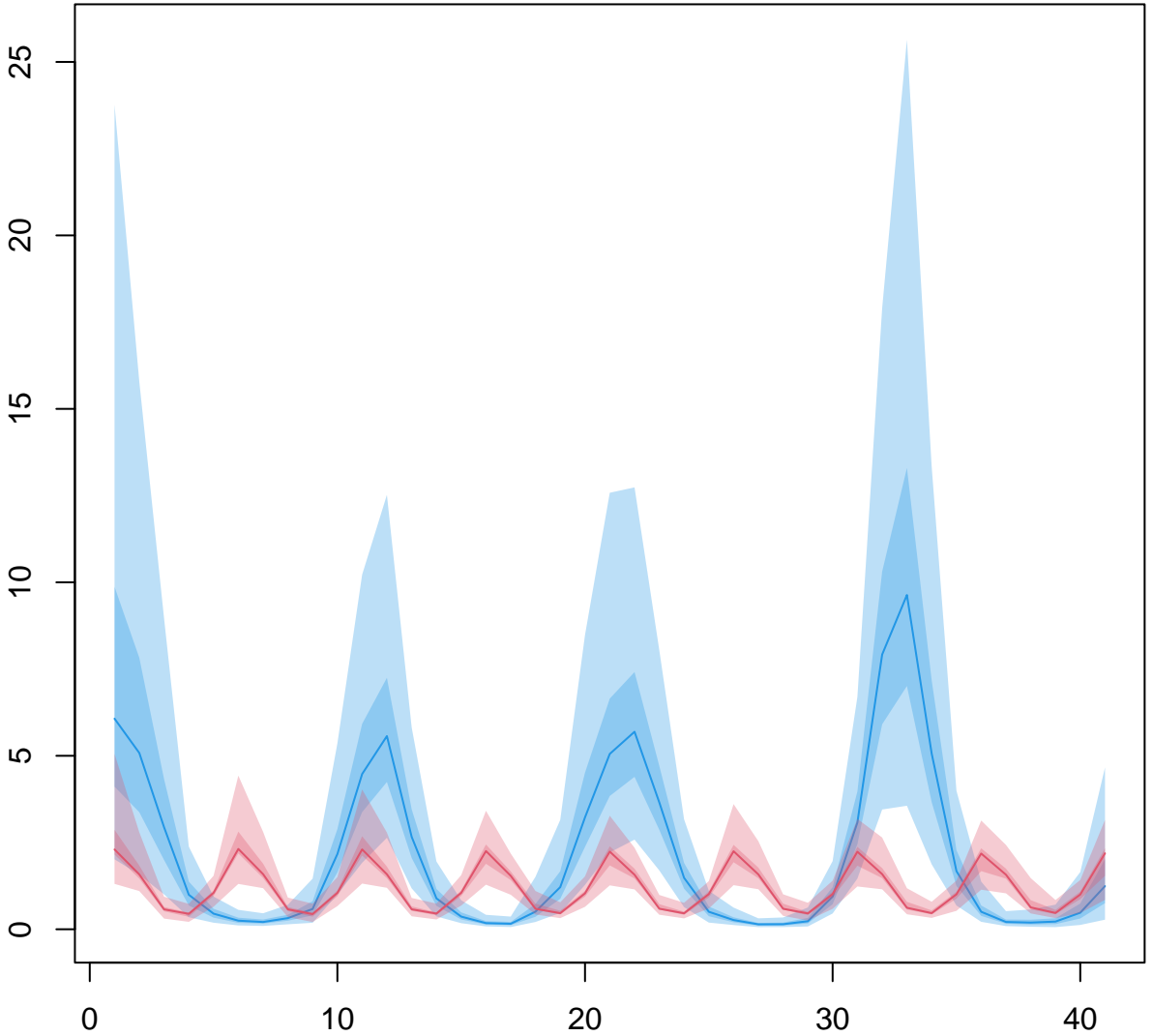




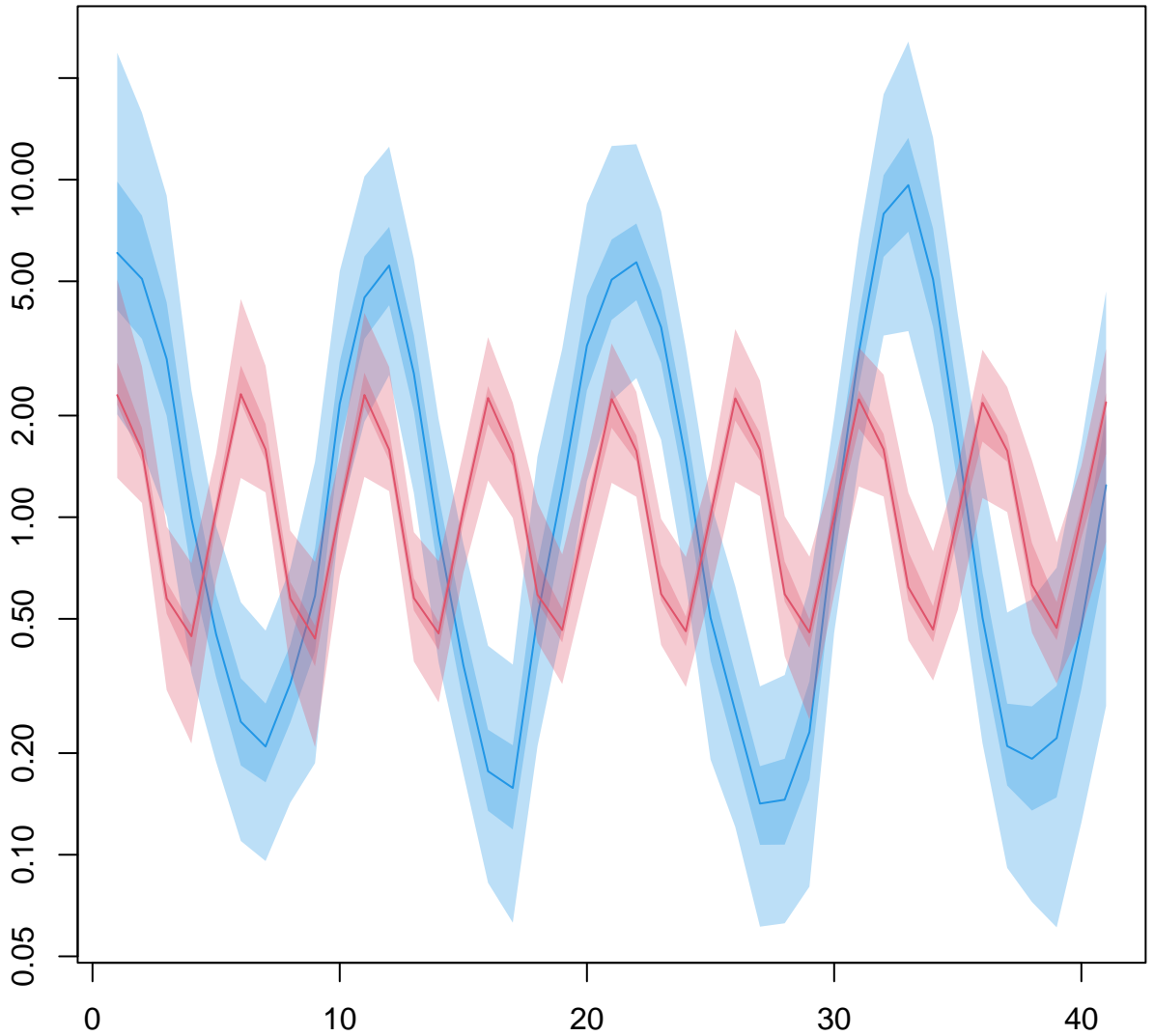


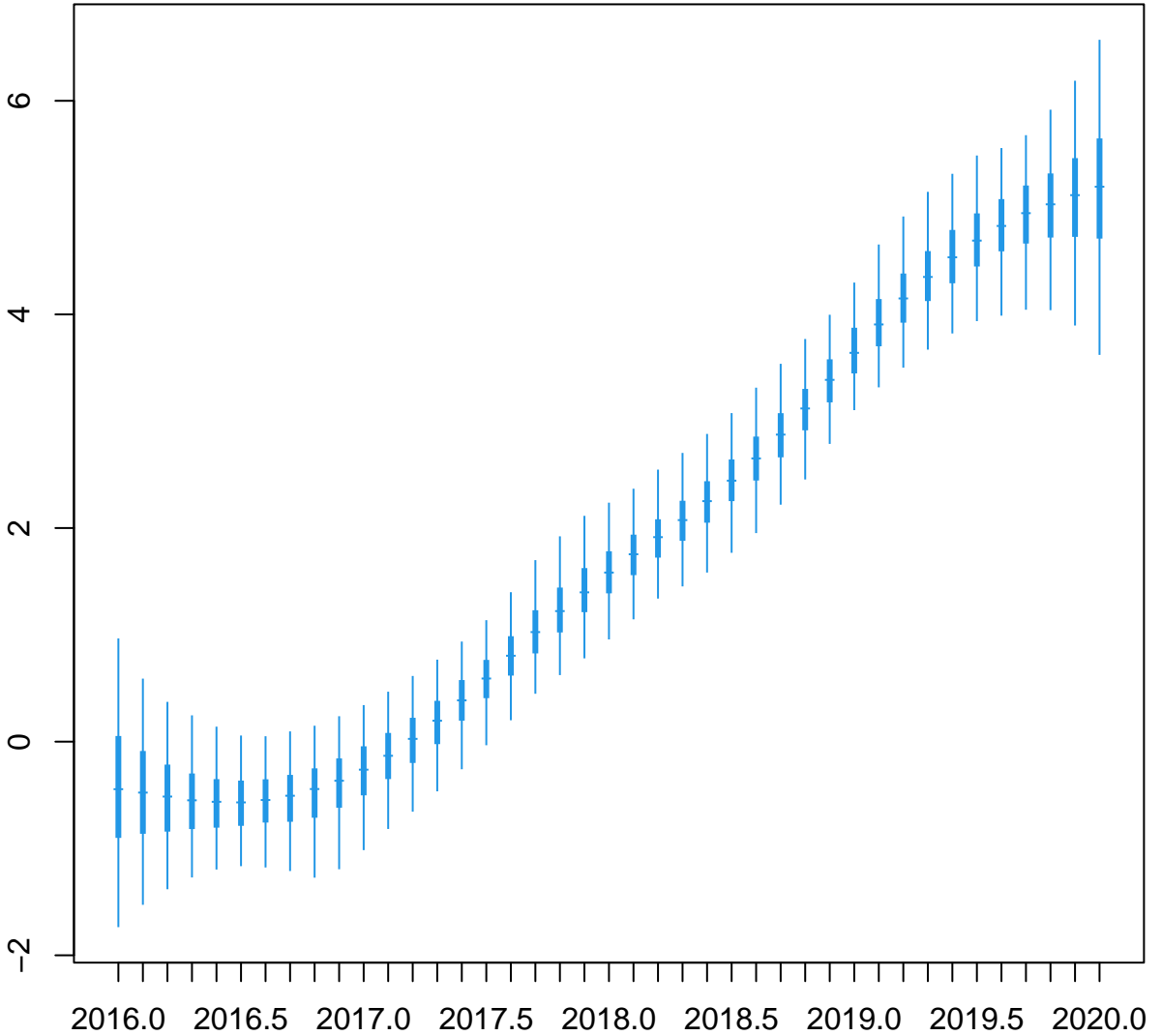


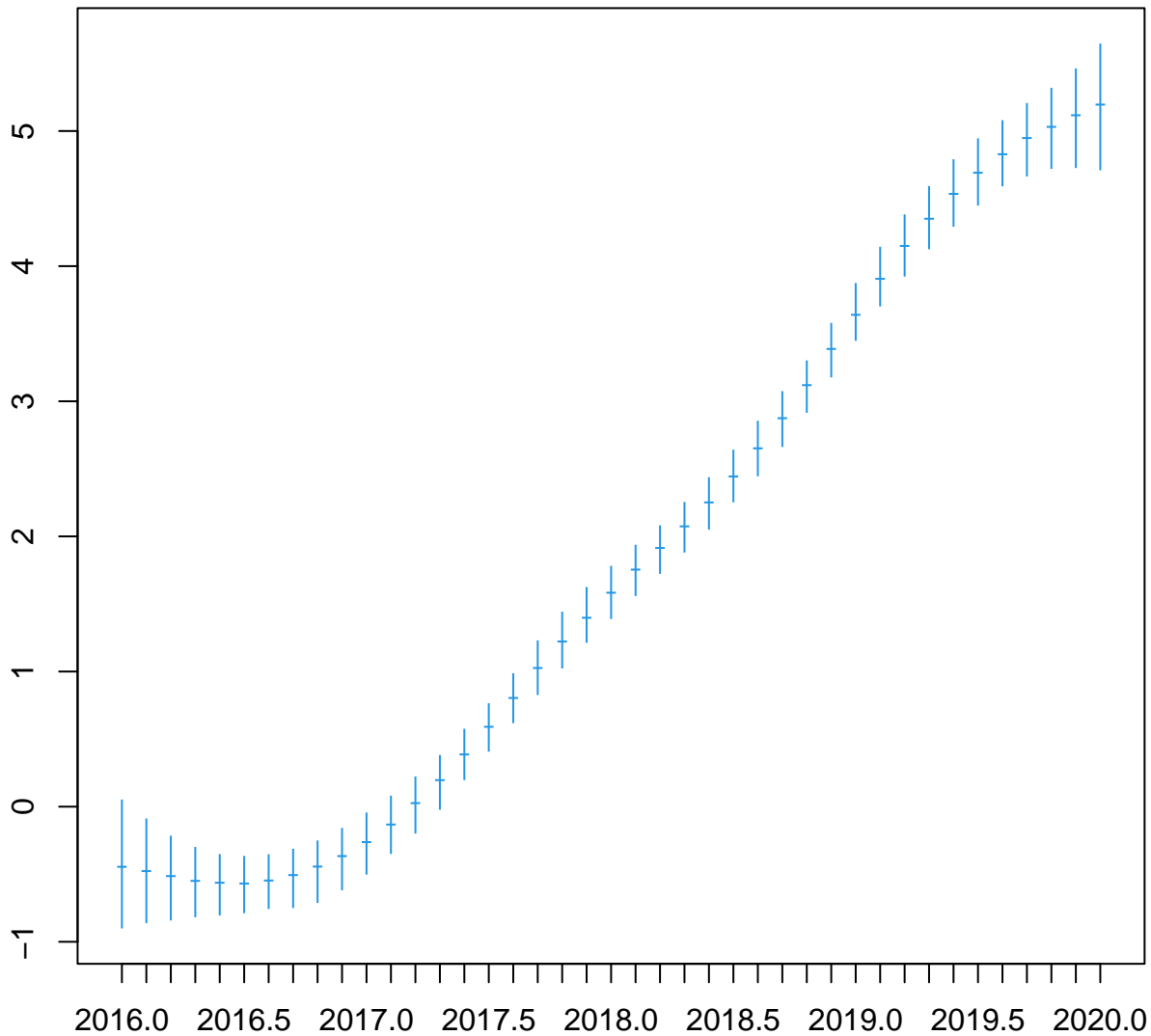
cycle\_s

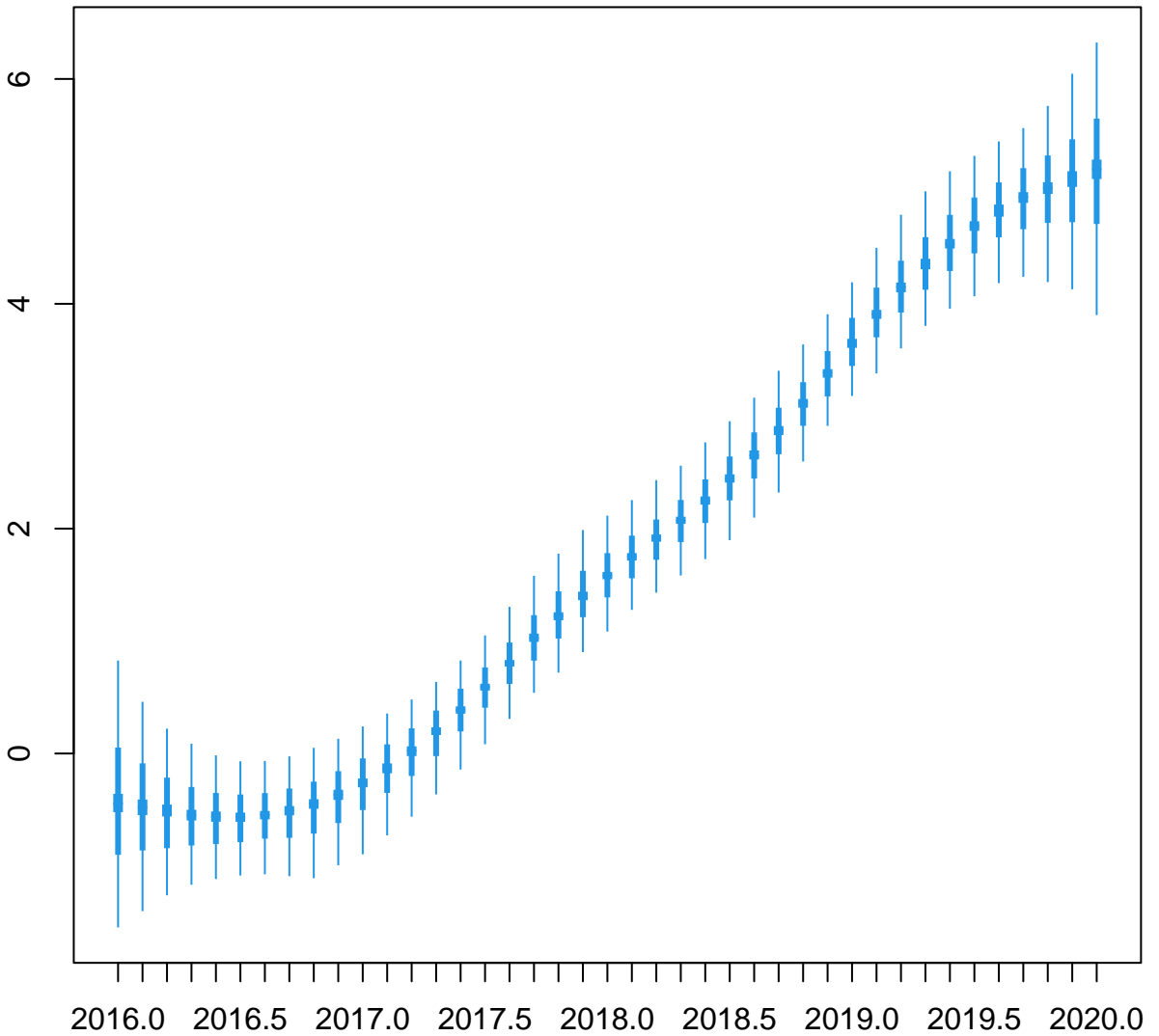


**cycle\_s**



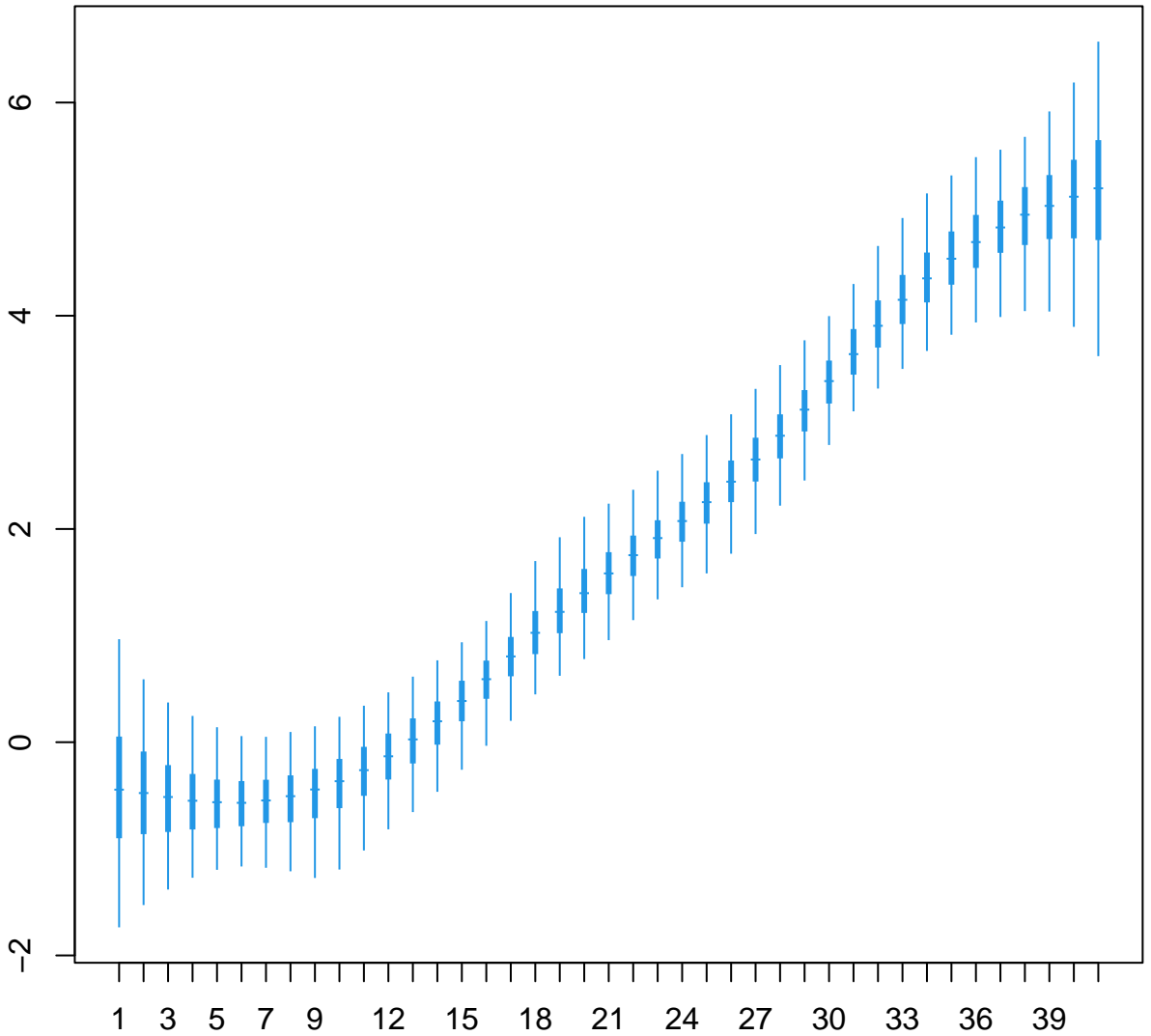




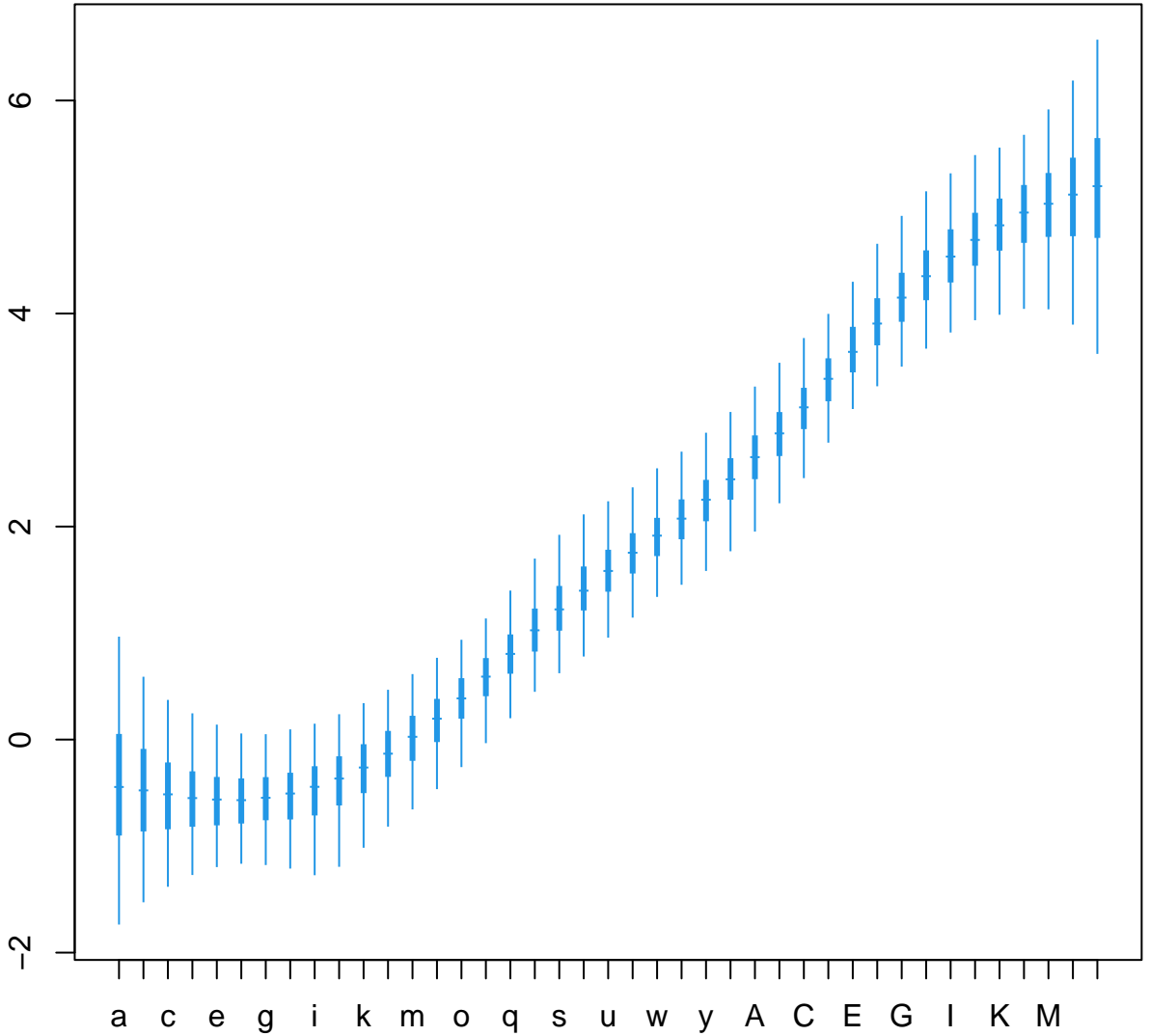




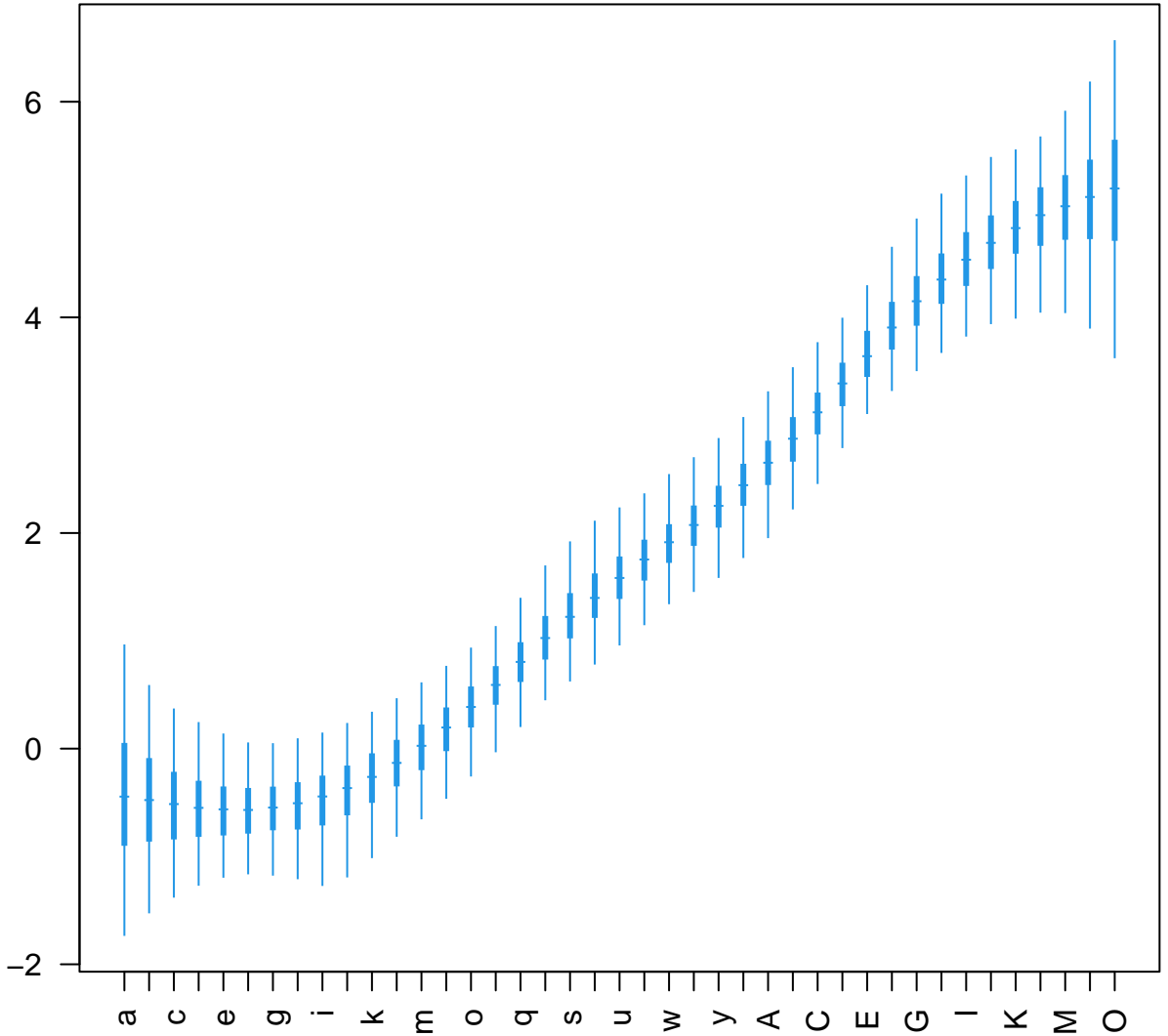
# trend



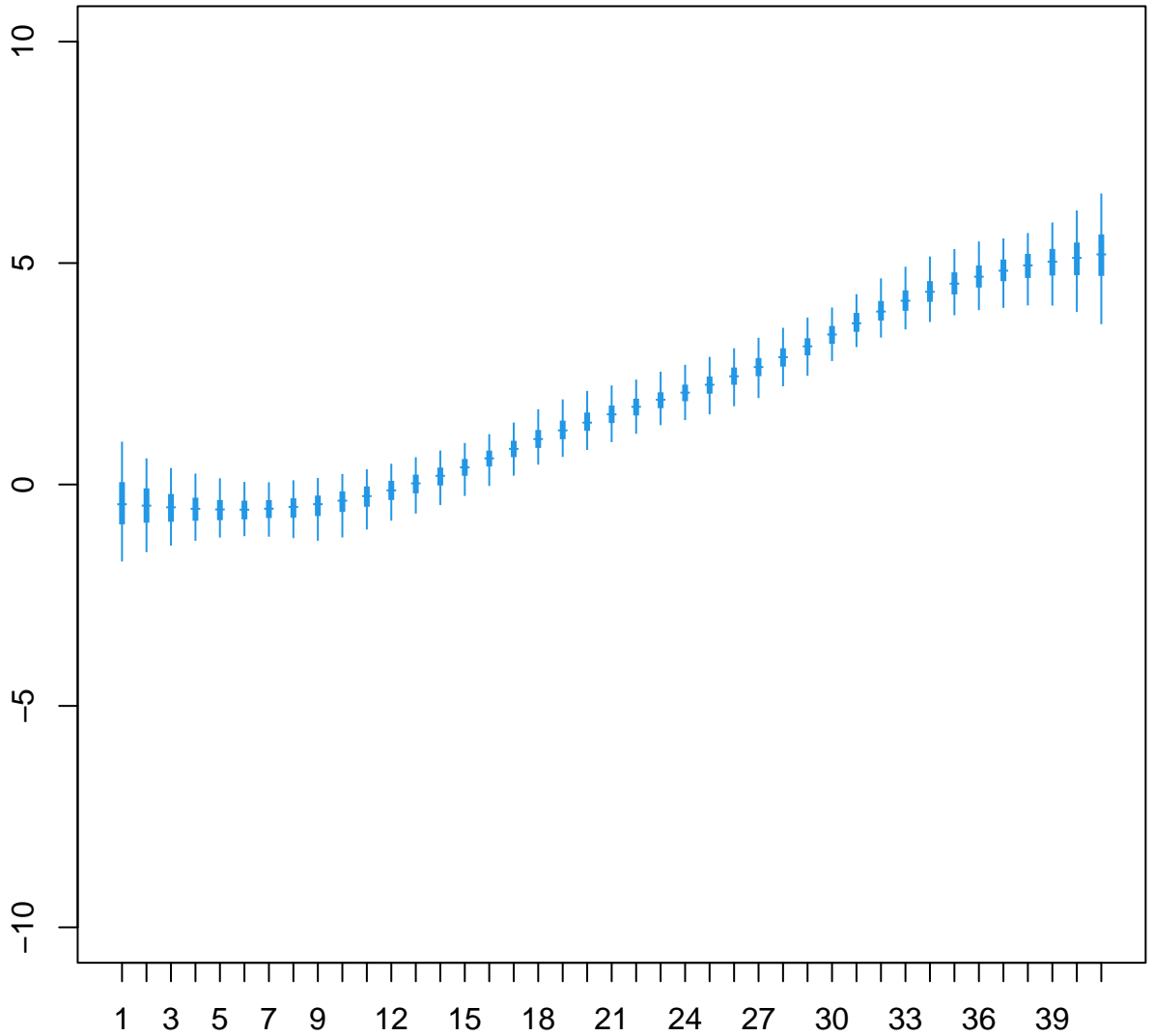
# trend



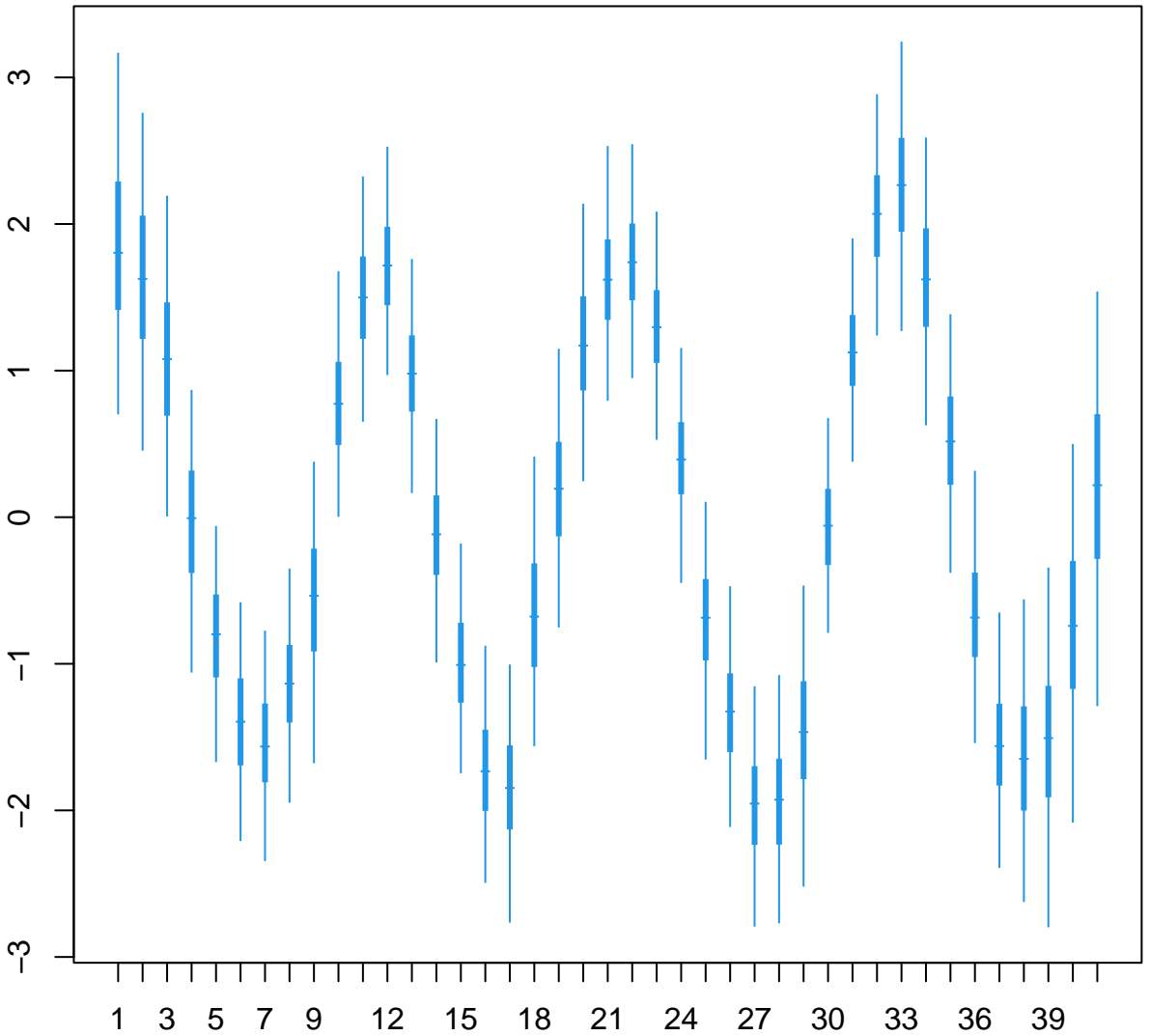
# trend



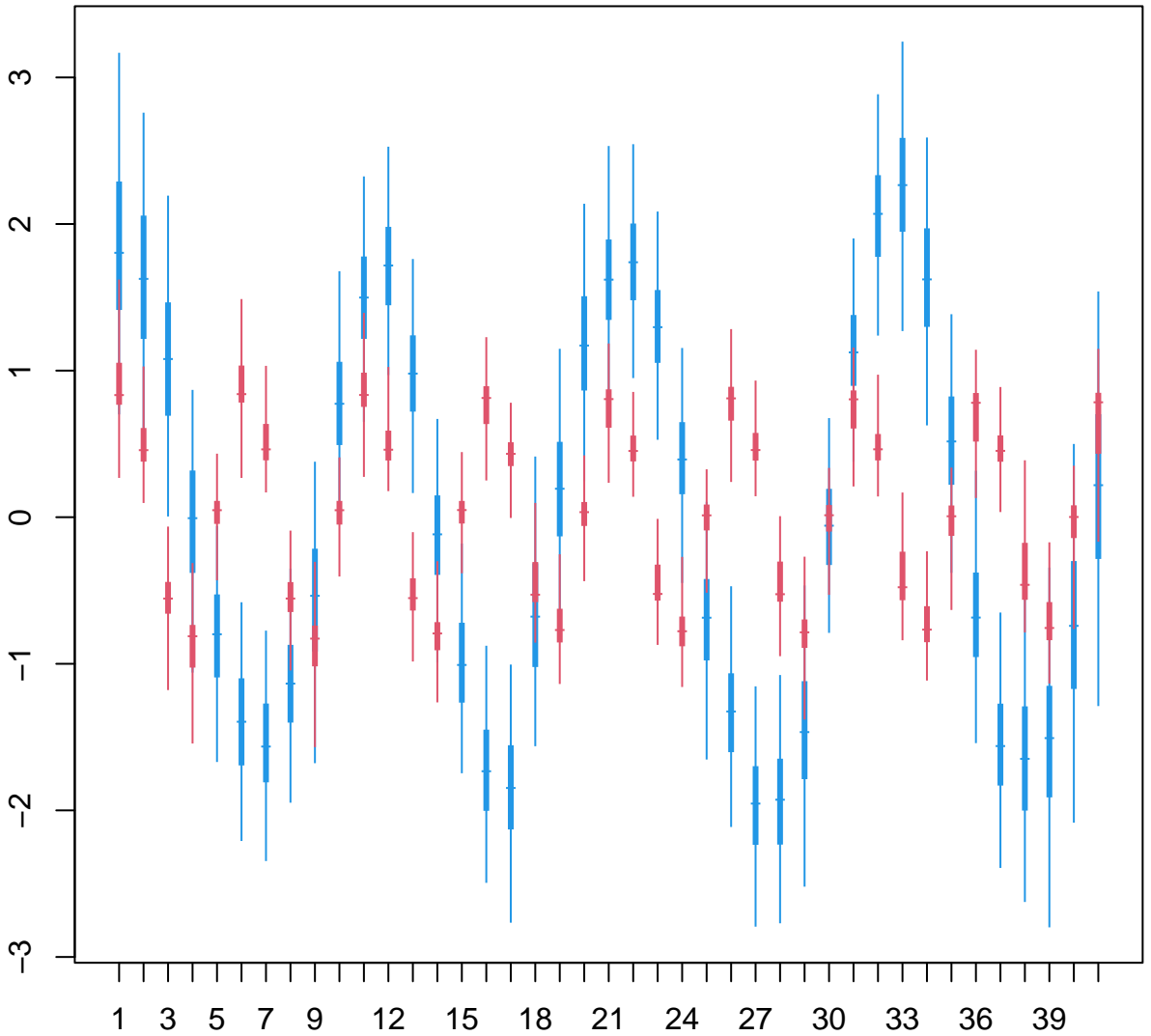
# trend

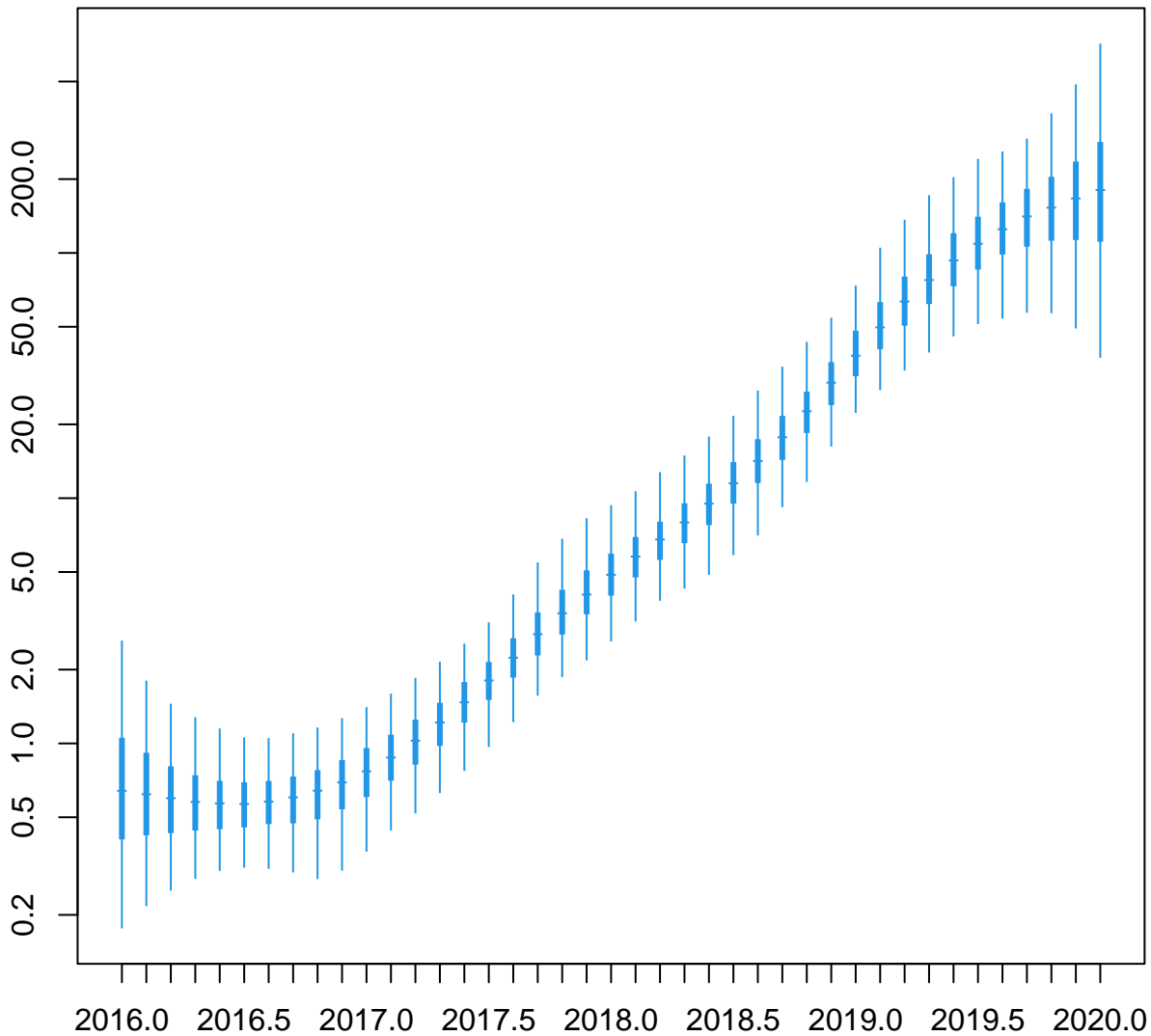


cycle\_s[,1]

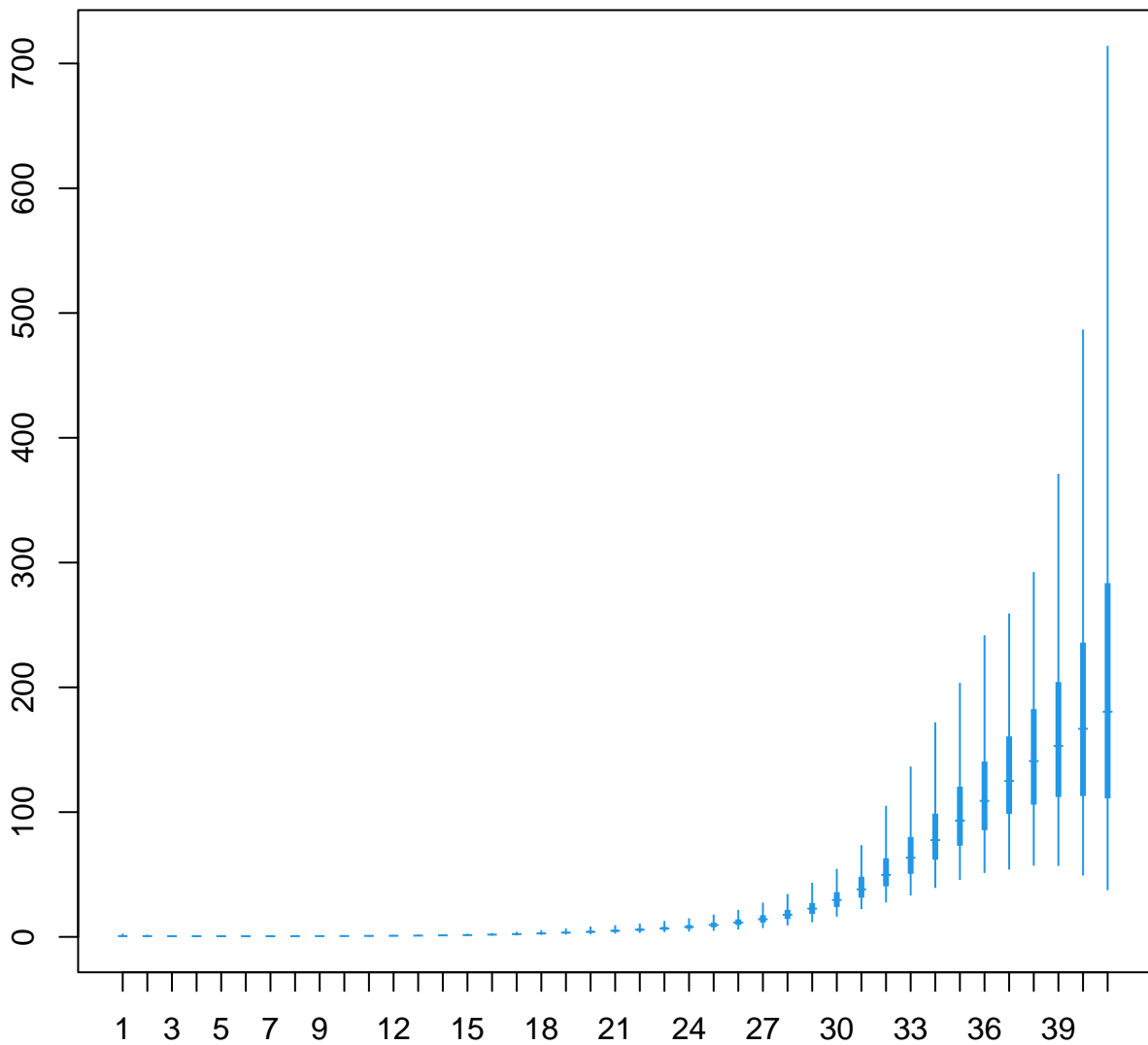


# cycle\_s



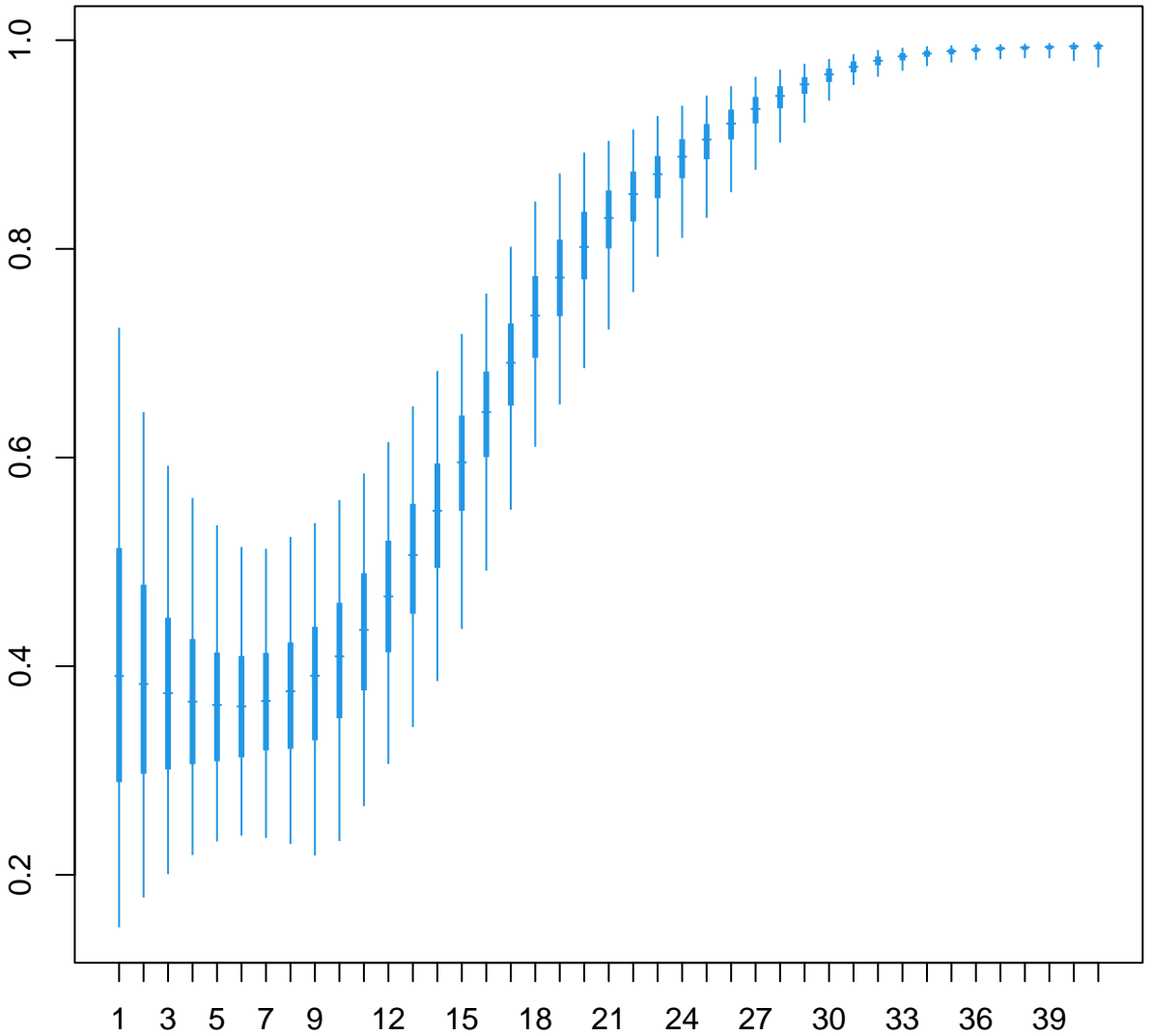


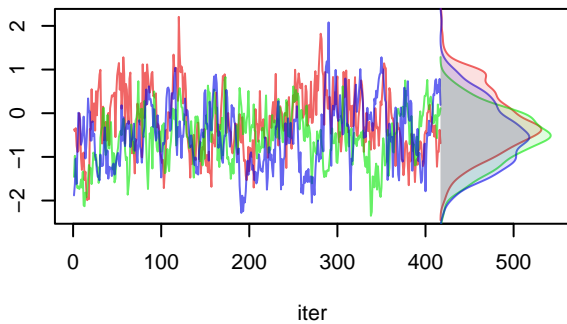
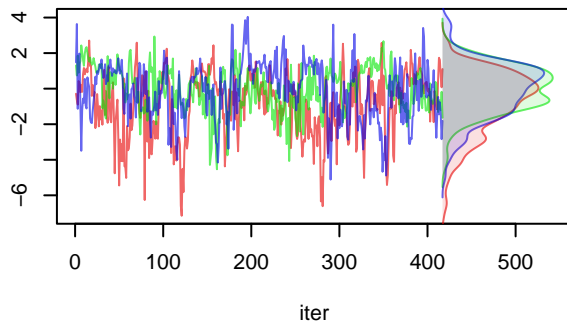
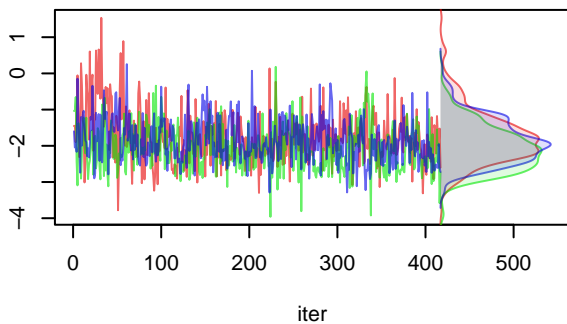
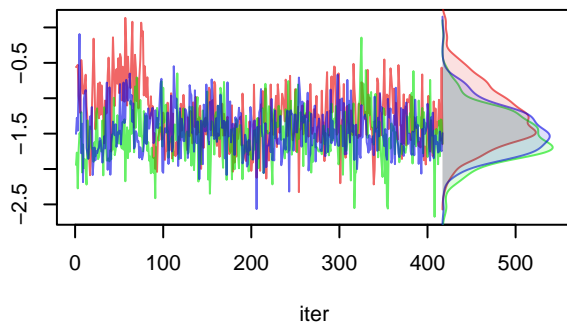
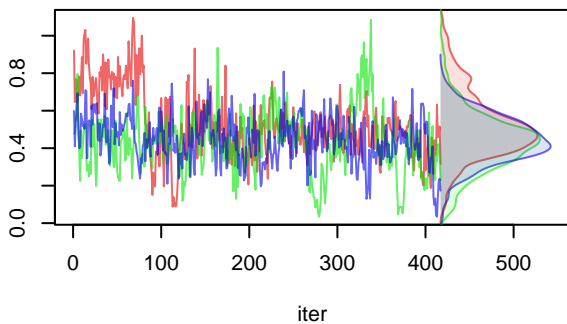
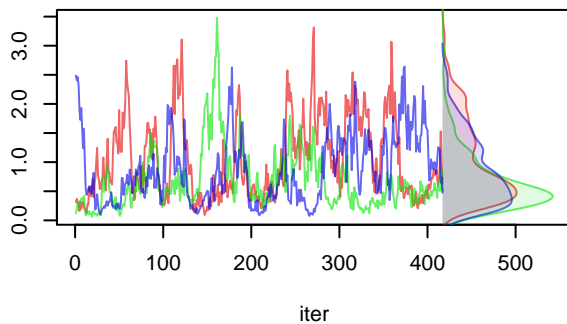
# trend

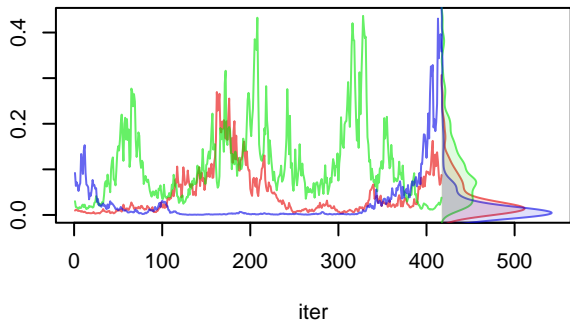
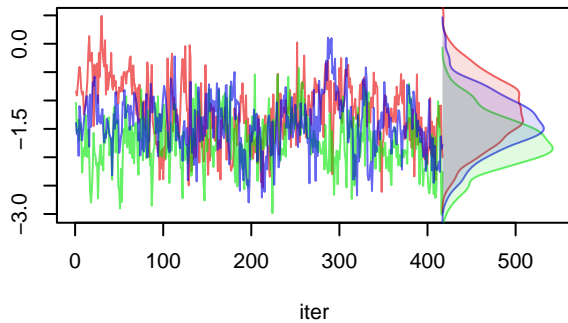
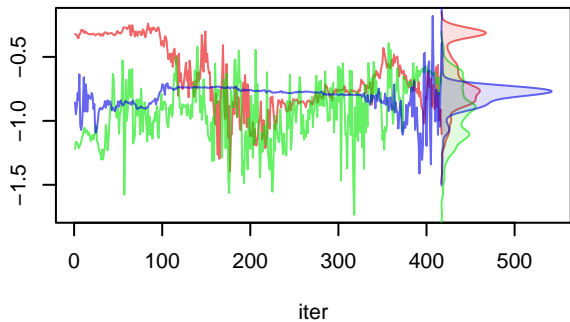
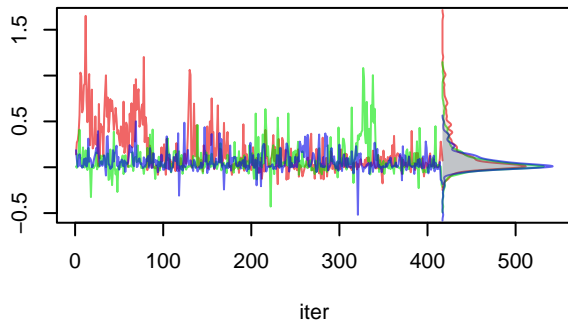
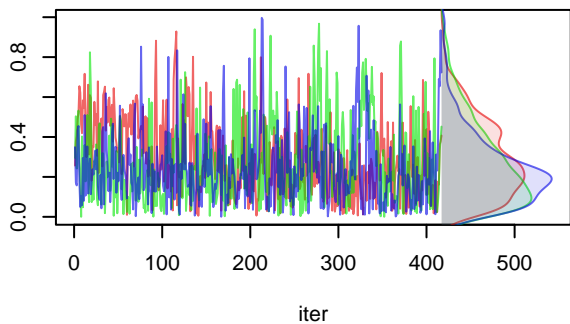
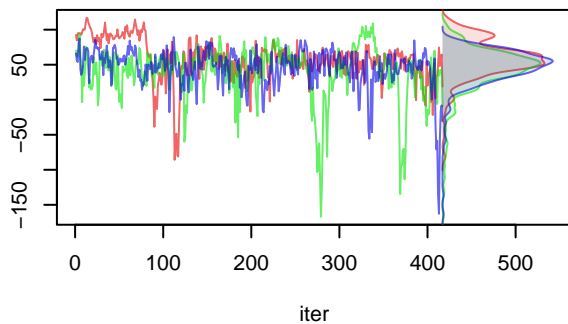


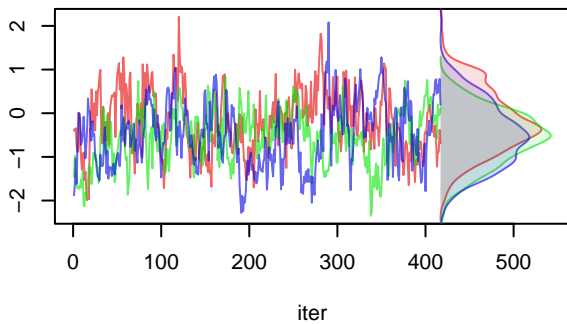
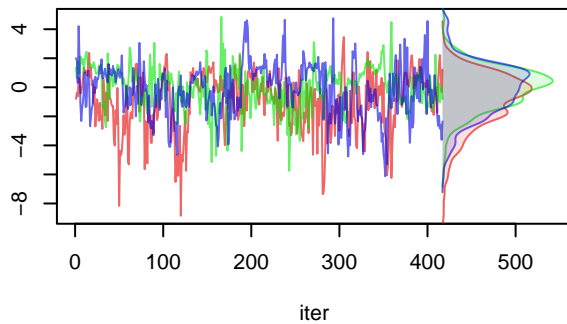
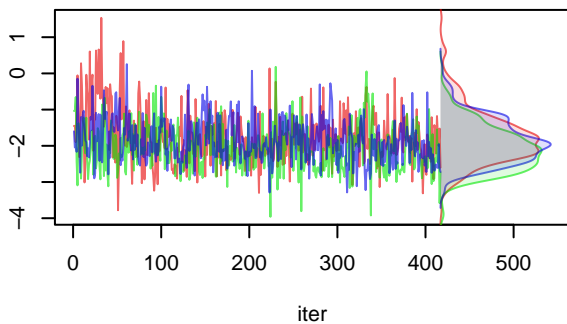
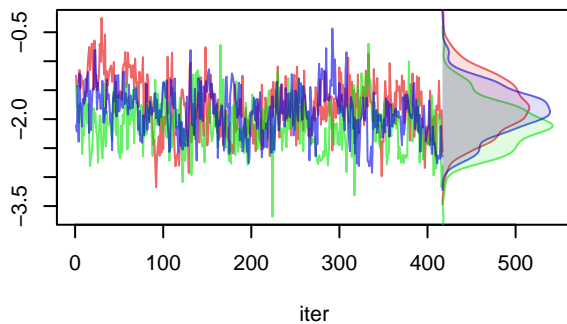
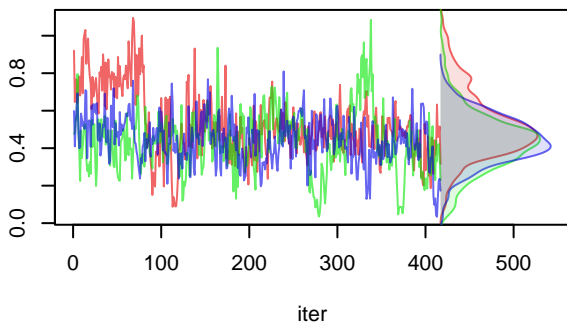
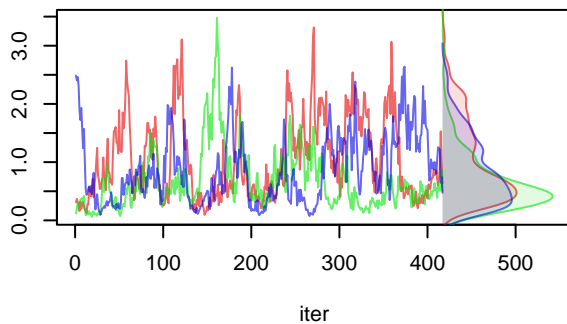


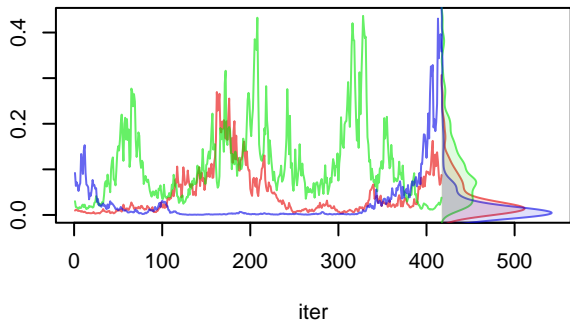
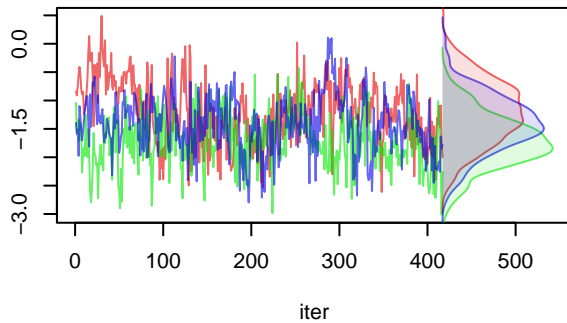
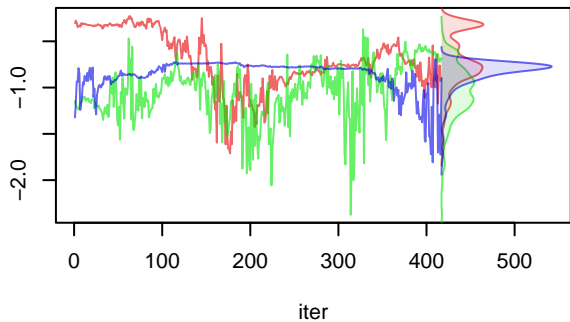
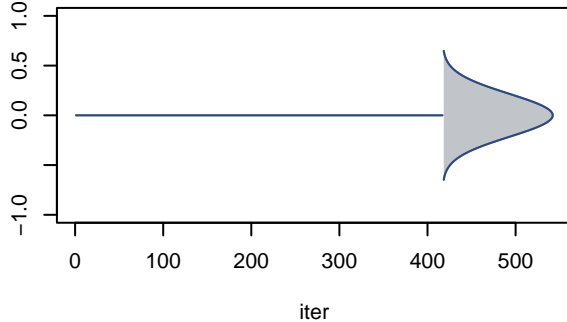
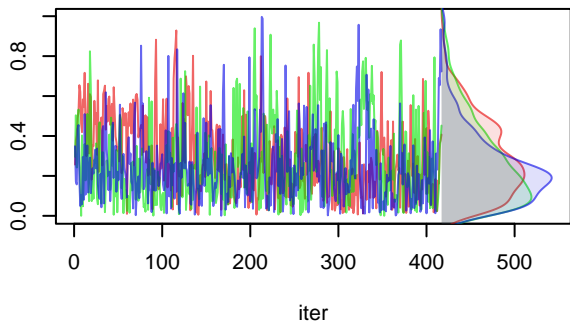
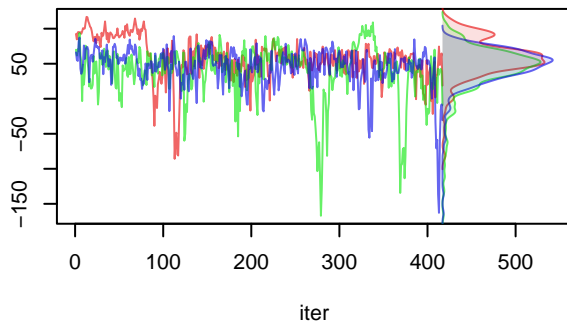
# trend



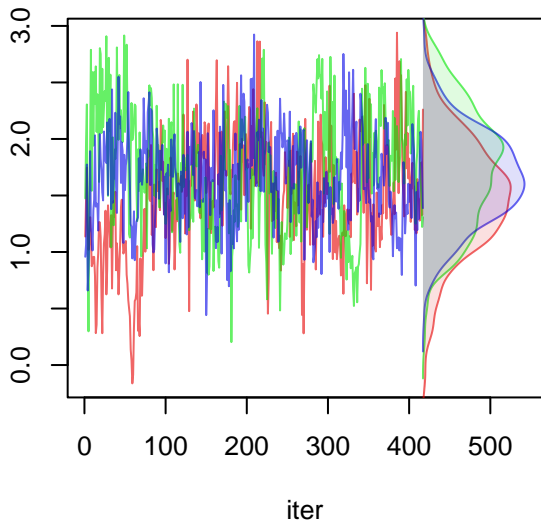
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**sig\_omega[2]****cycle[9]****cycle\_s[14,2]****ar1[21]****phi****deviance**

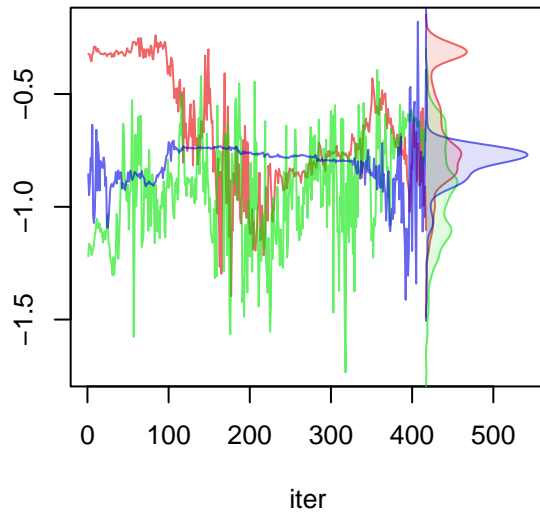
**trend[1]****rate[2]****ypp[9]****fit[9]****sig\_eps****sig\_xi**

**sig\_omega[2]****cycle[9]****cycle\_s[9,2]****ar1[1]****phi****deviance**

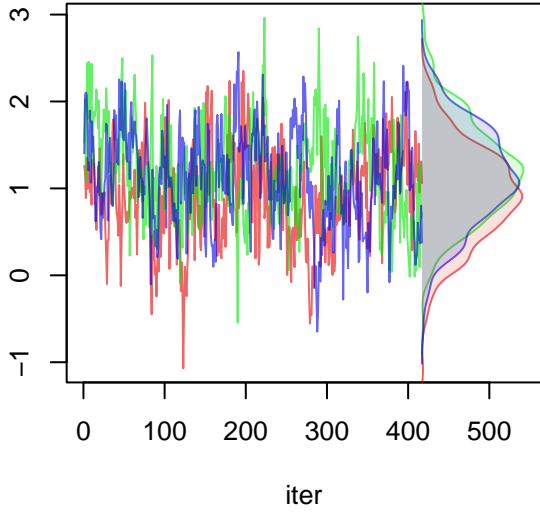
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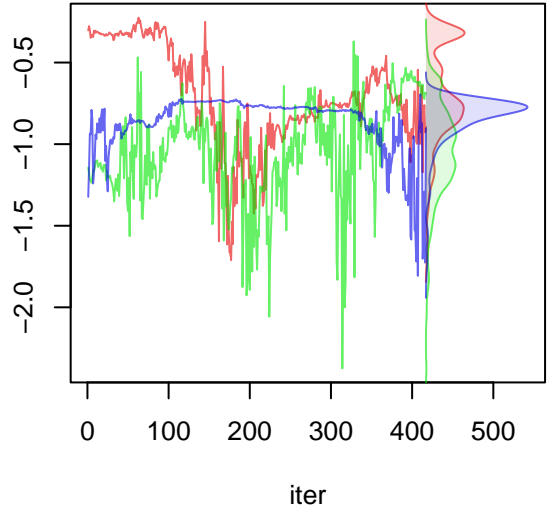
**cycle\_s[14,2]**



**cycle\_s[3,1]**



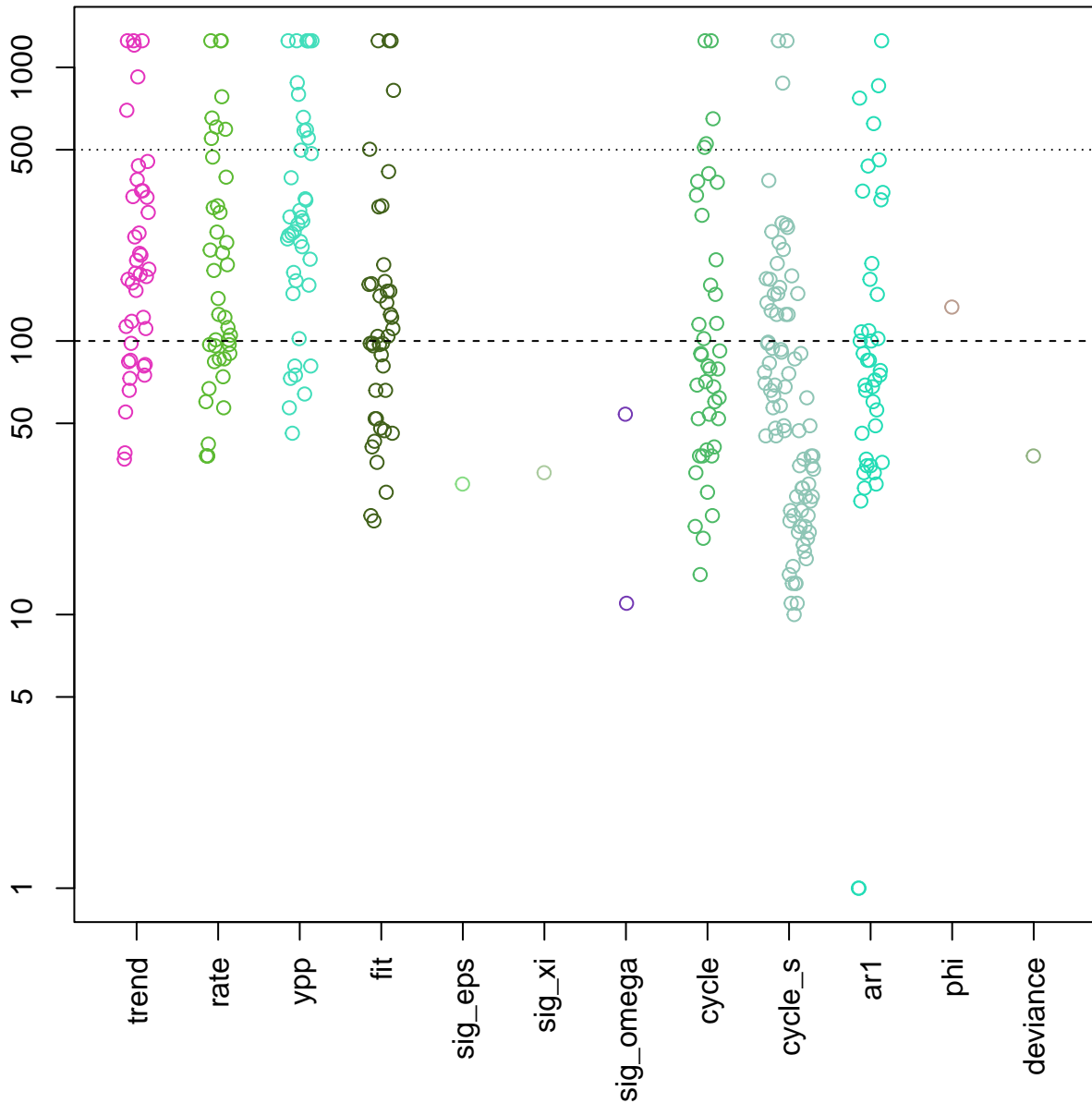
**cycle\_s[9,2]**



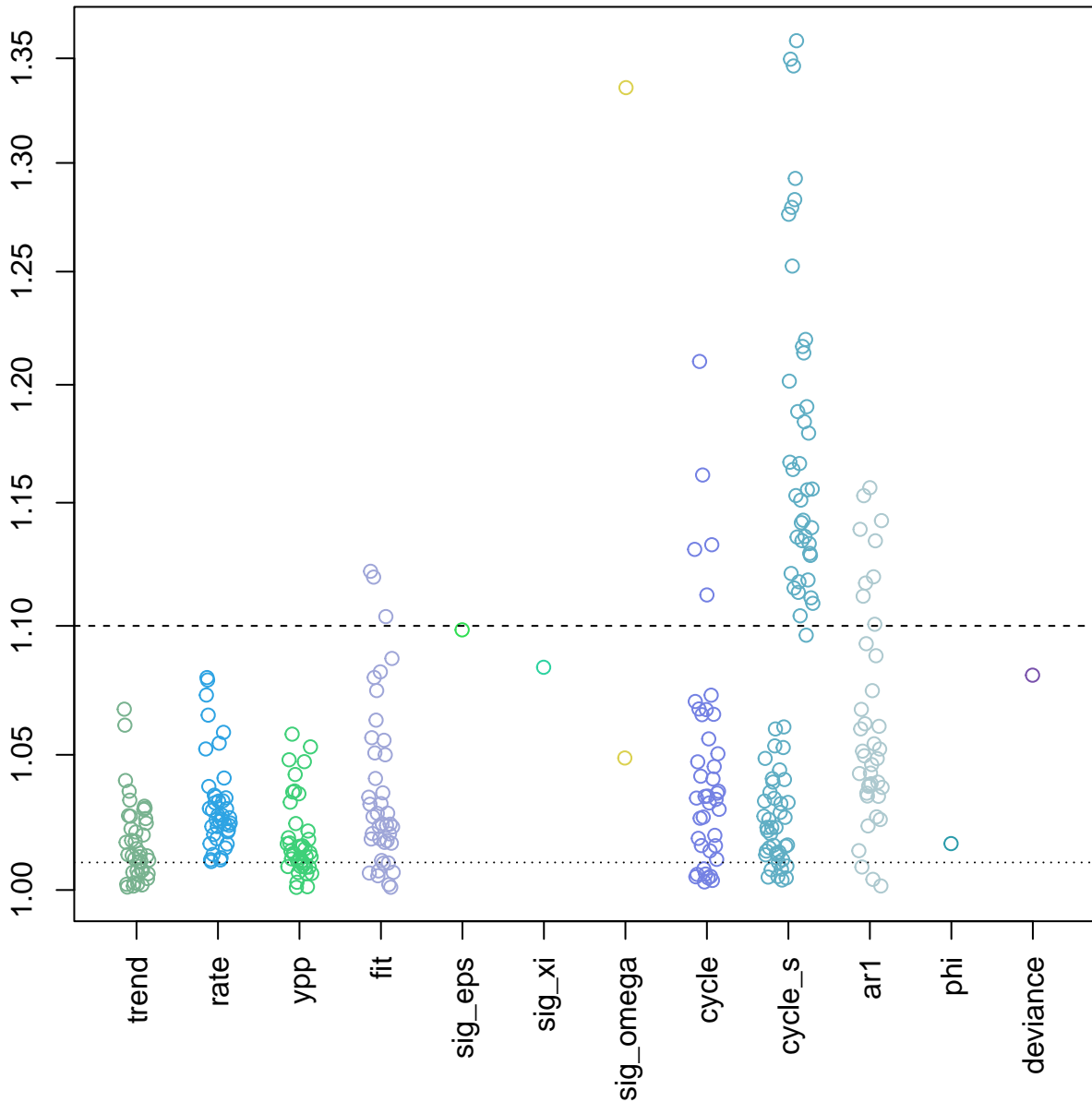




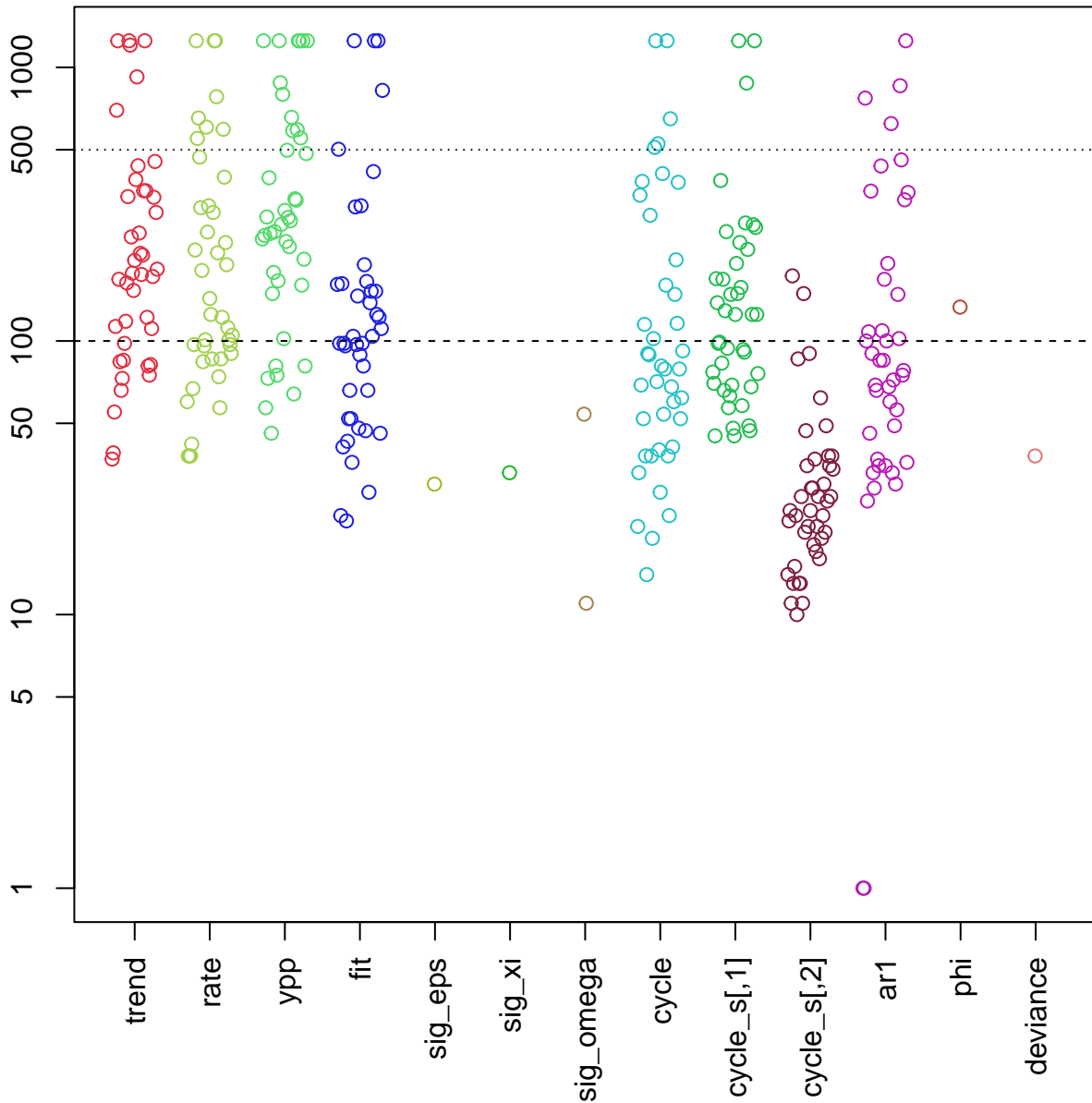
# n eff



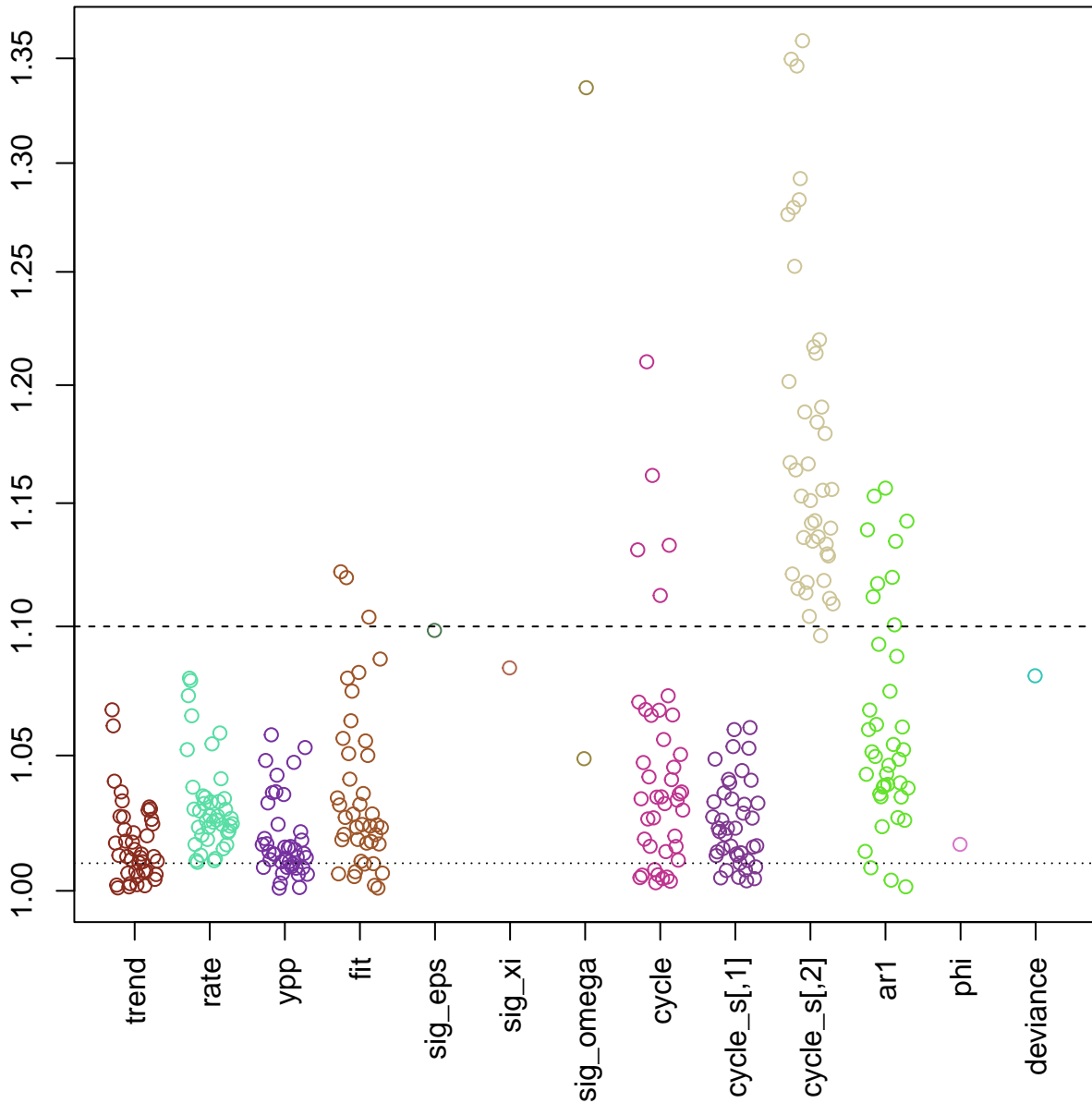
# R hat



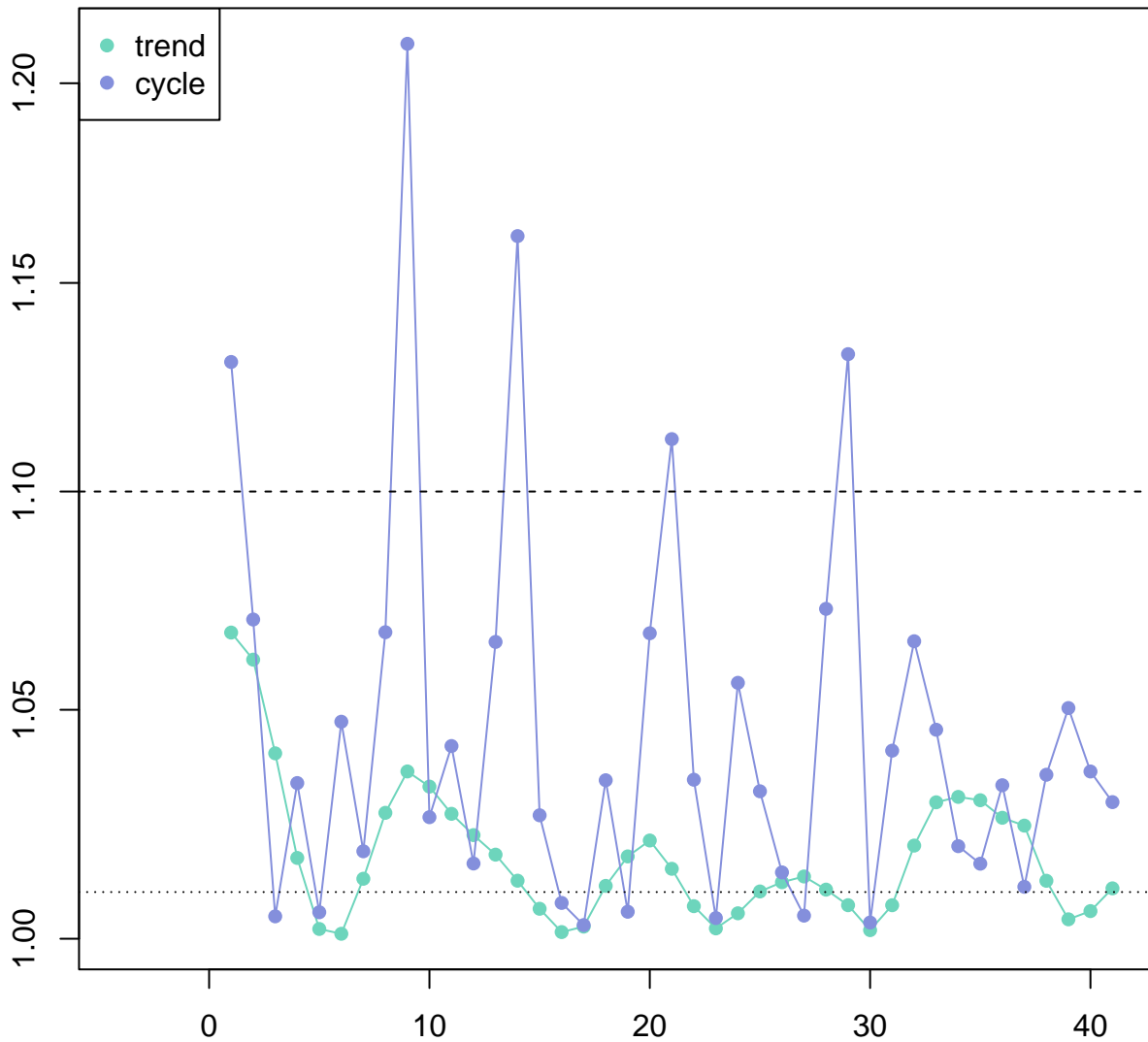
# n eff

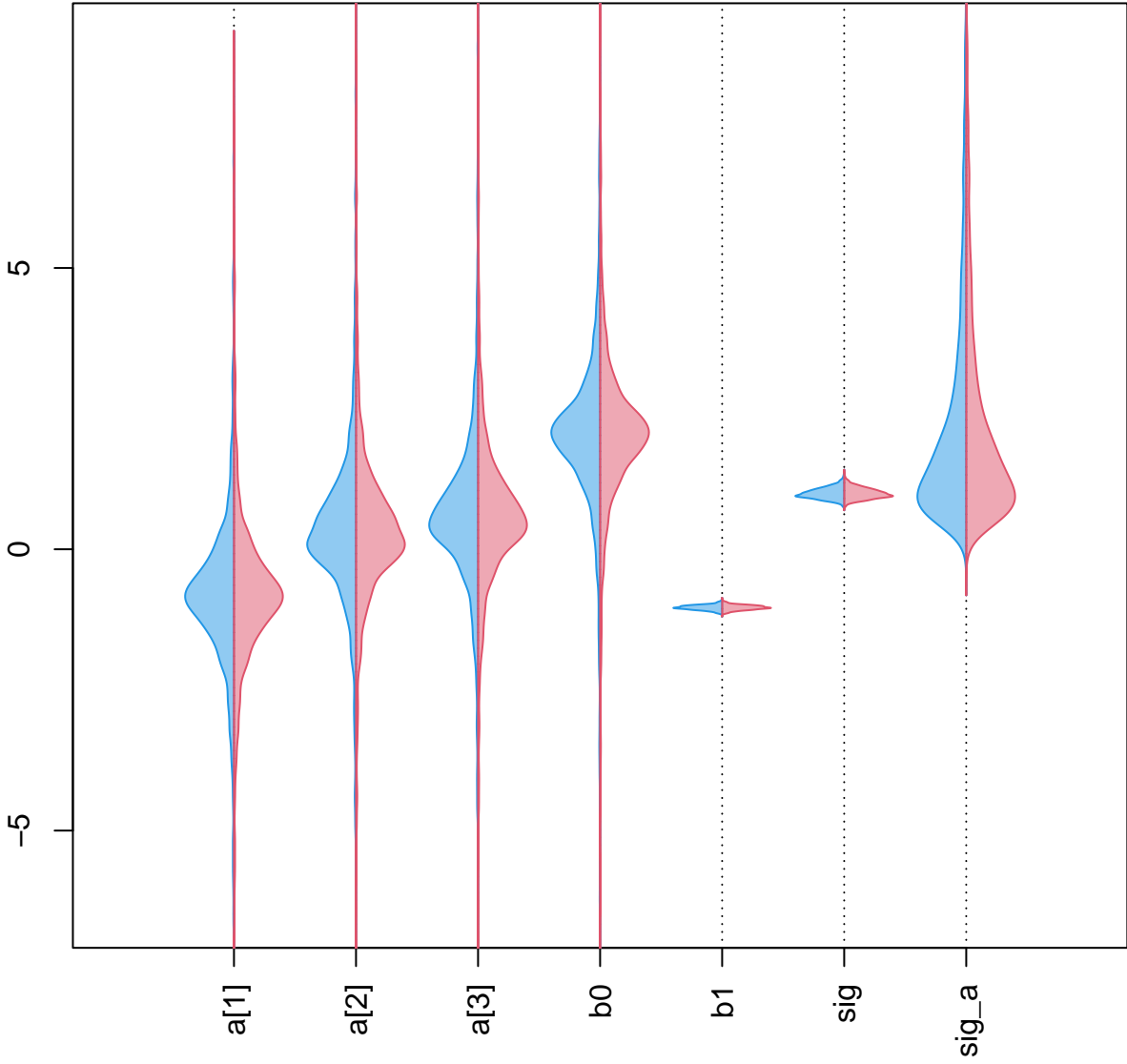


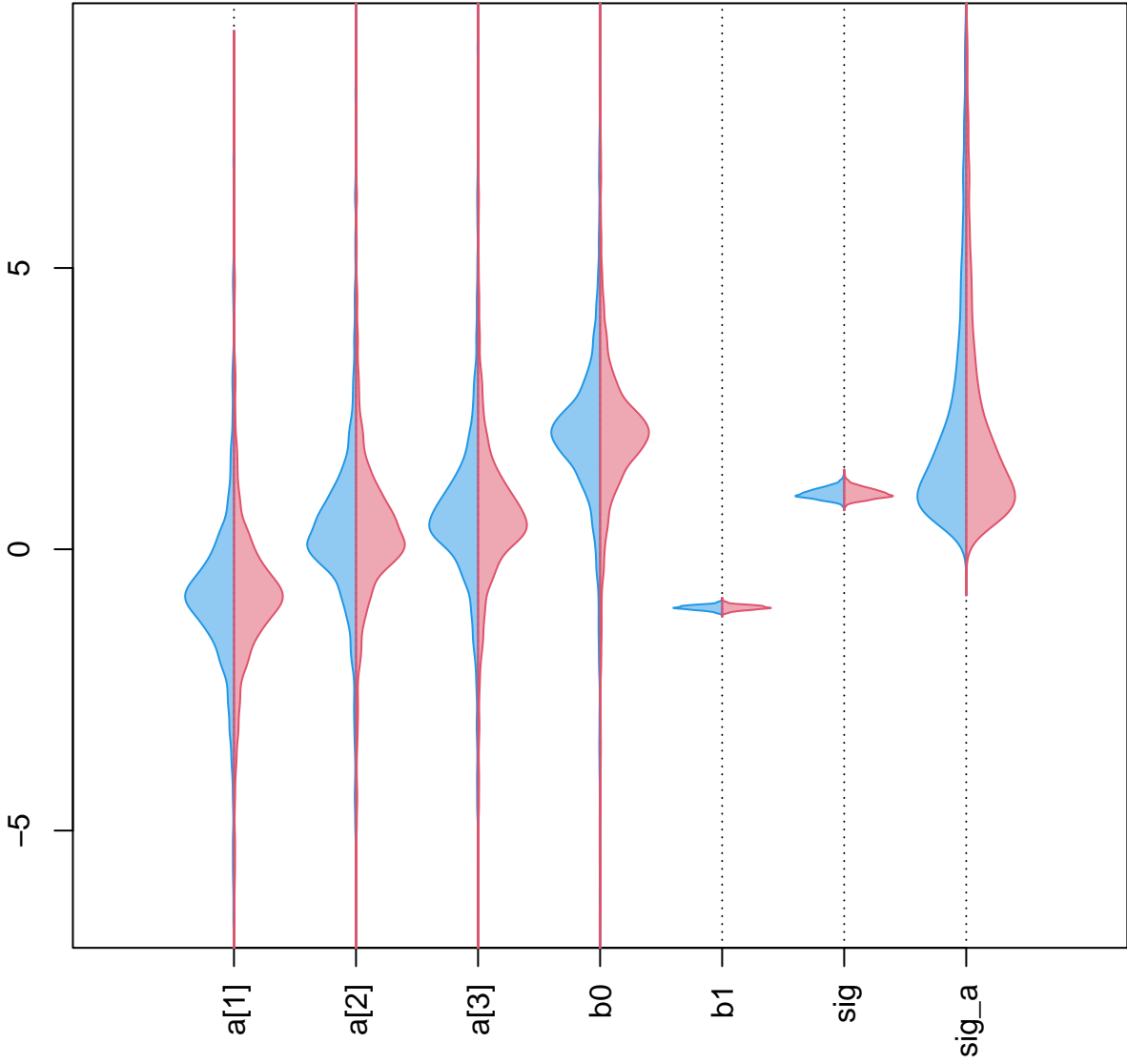
# R hat

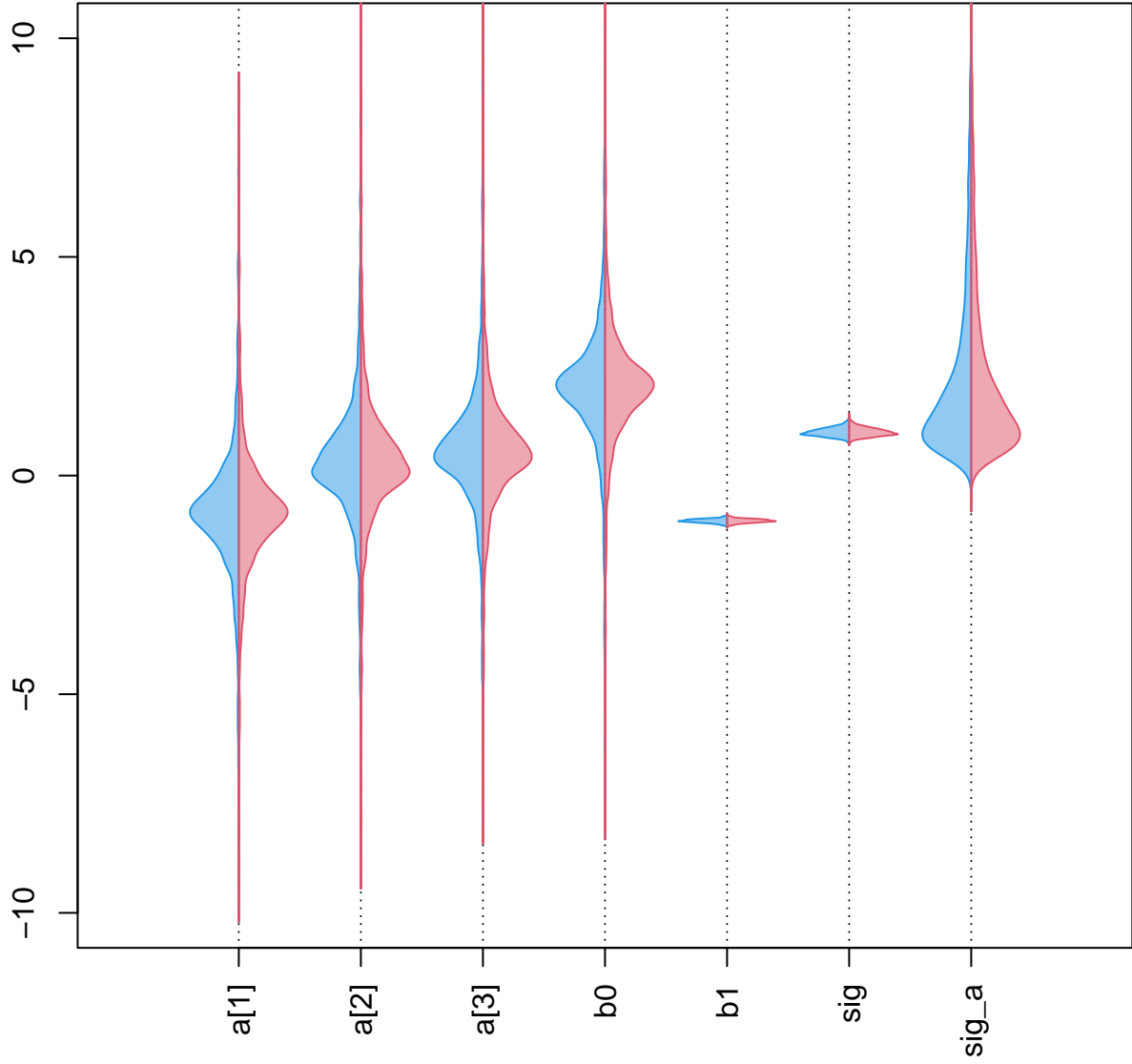


# R hat

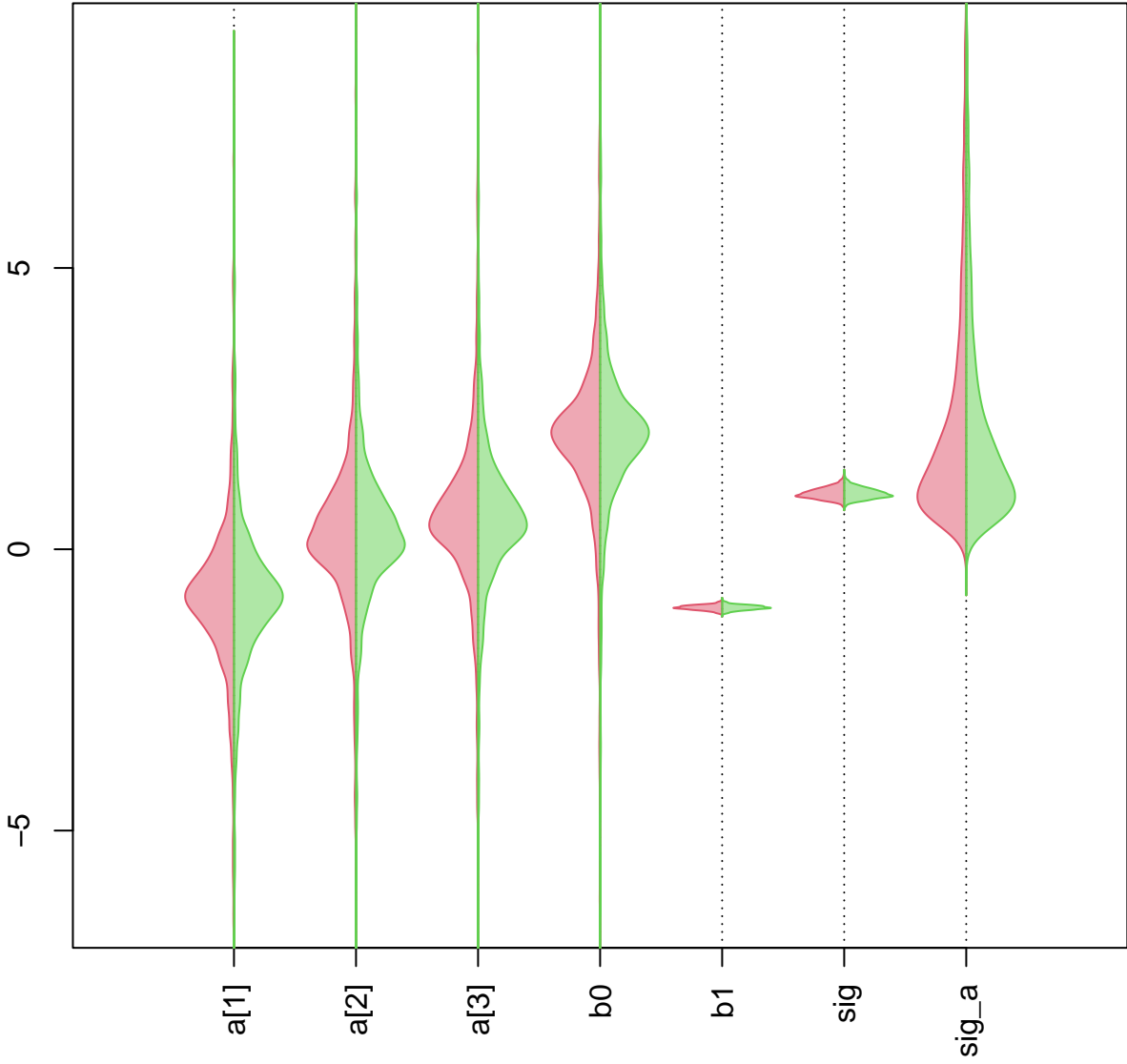


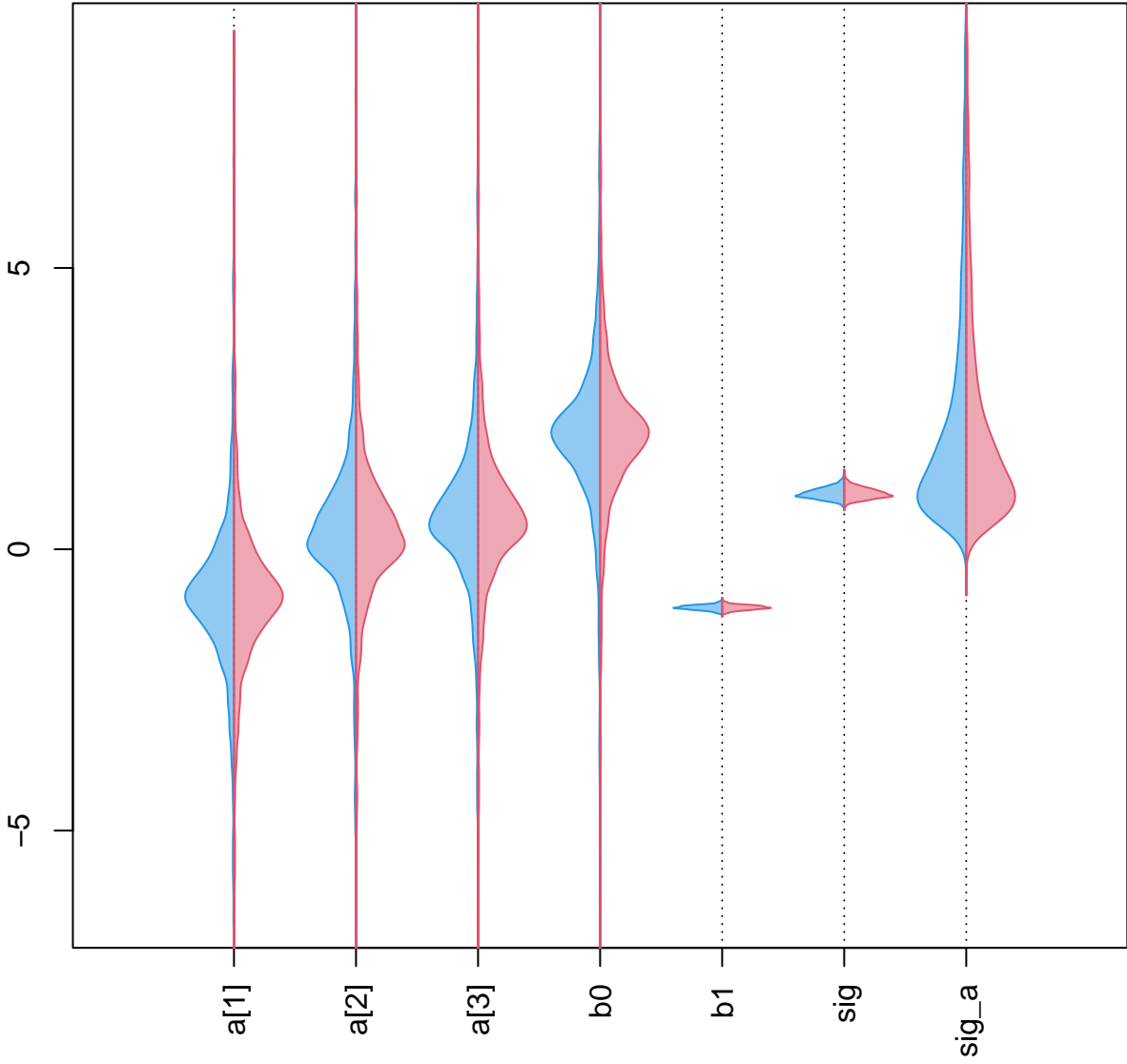


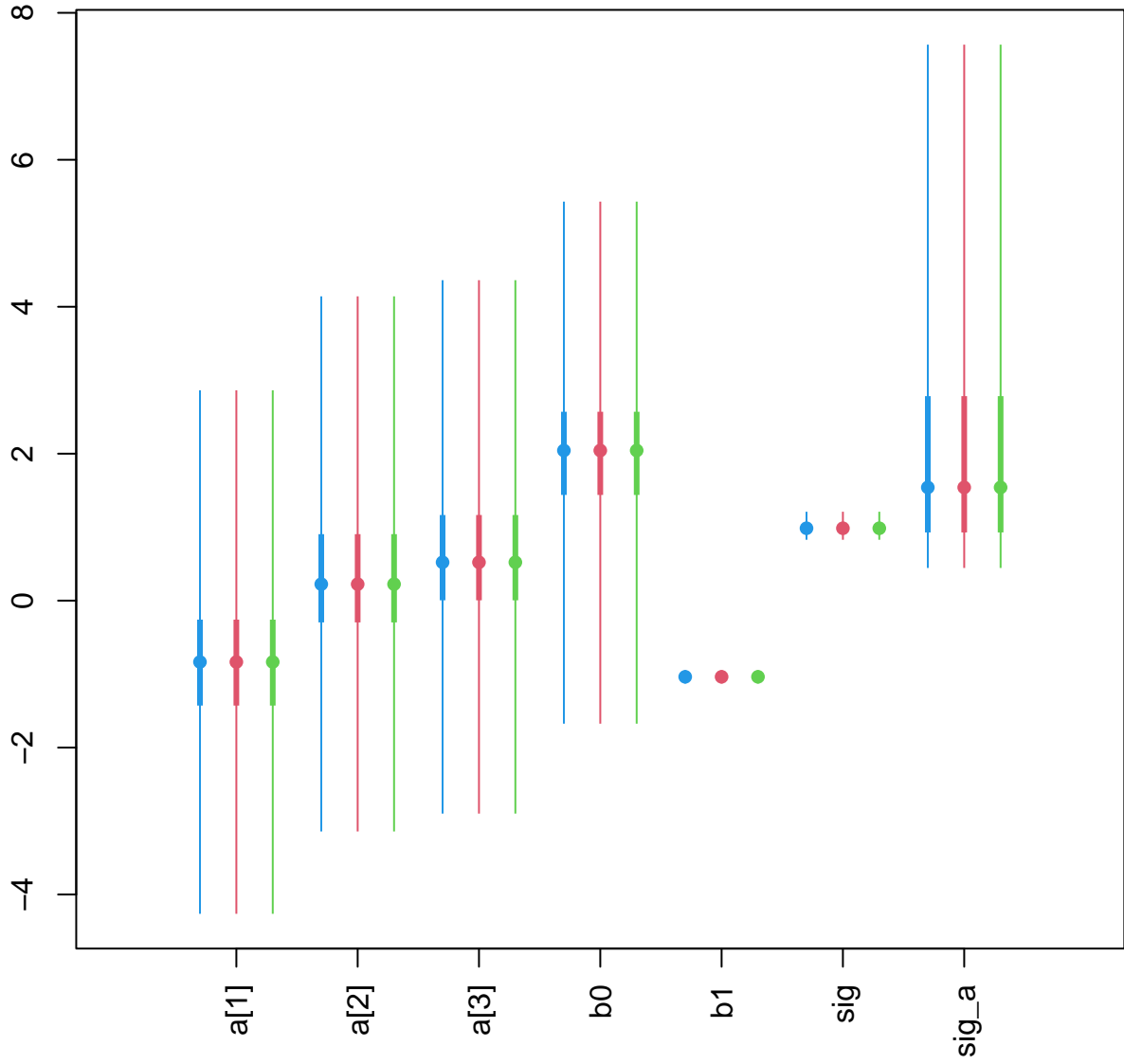


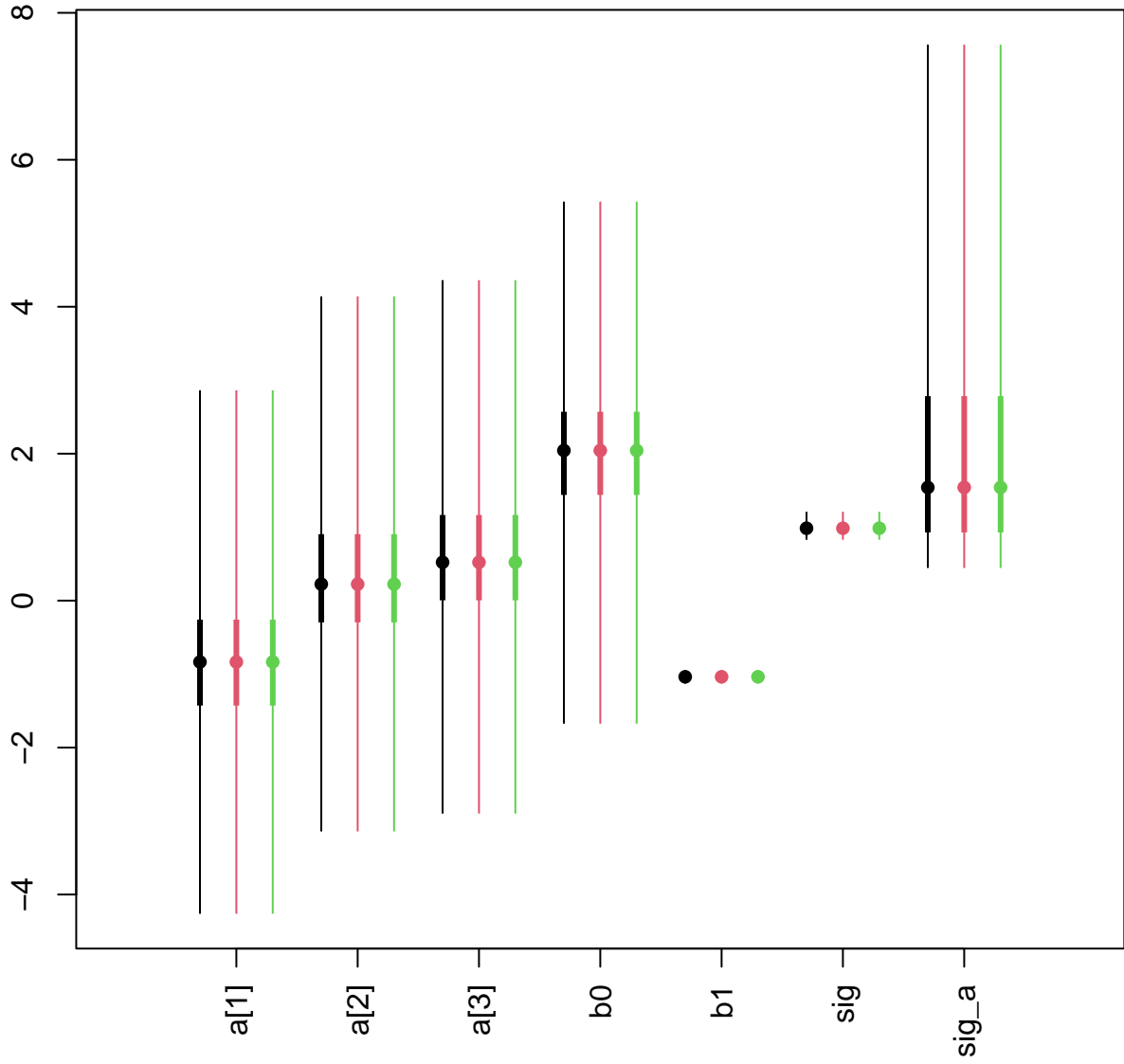


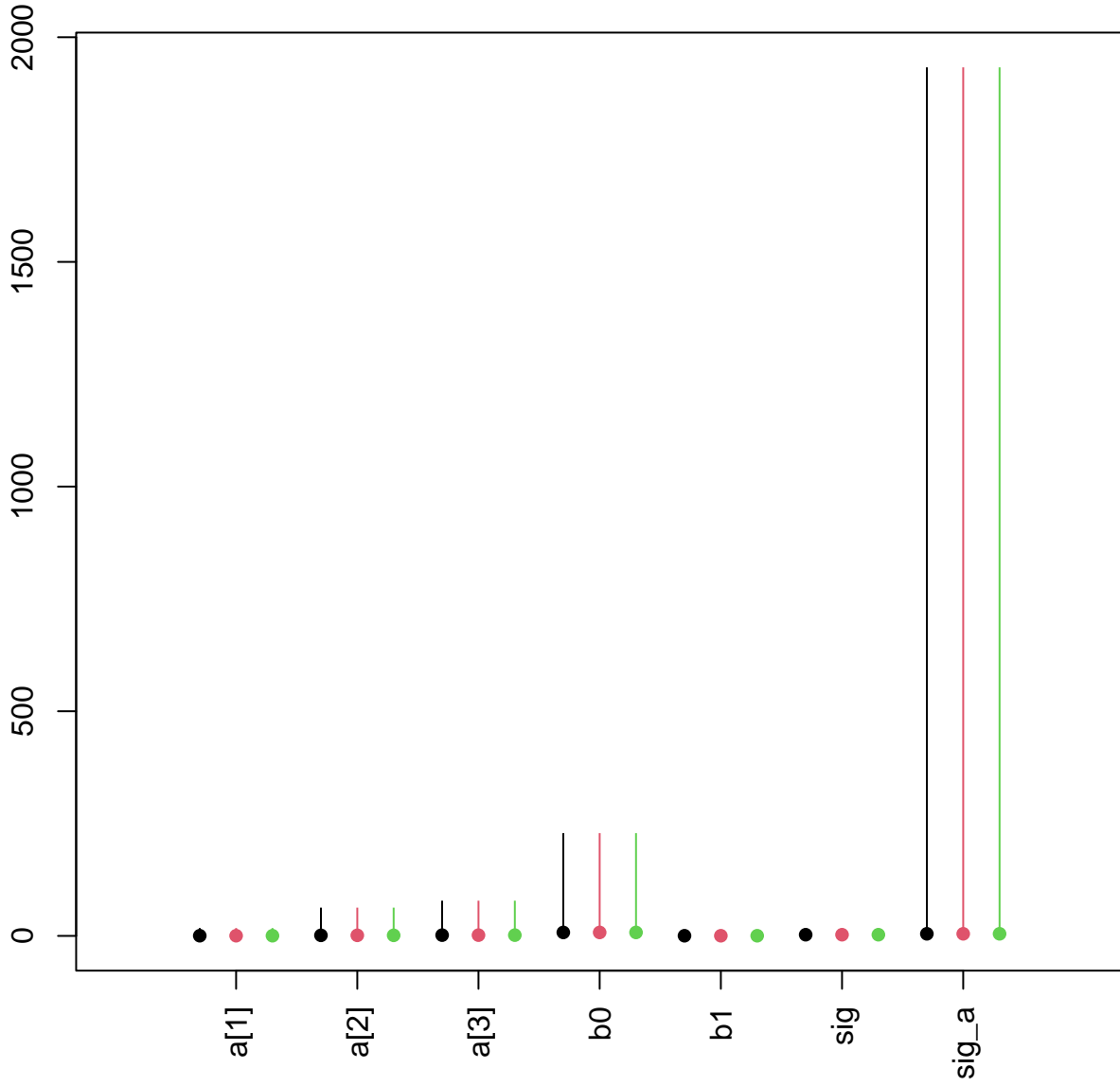


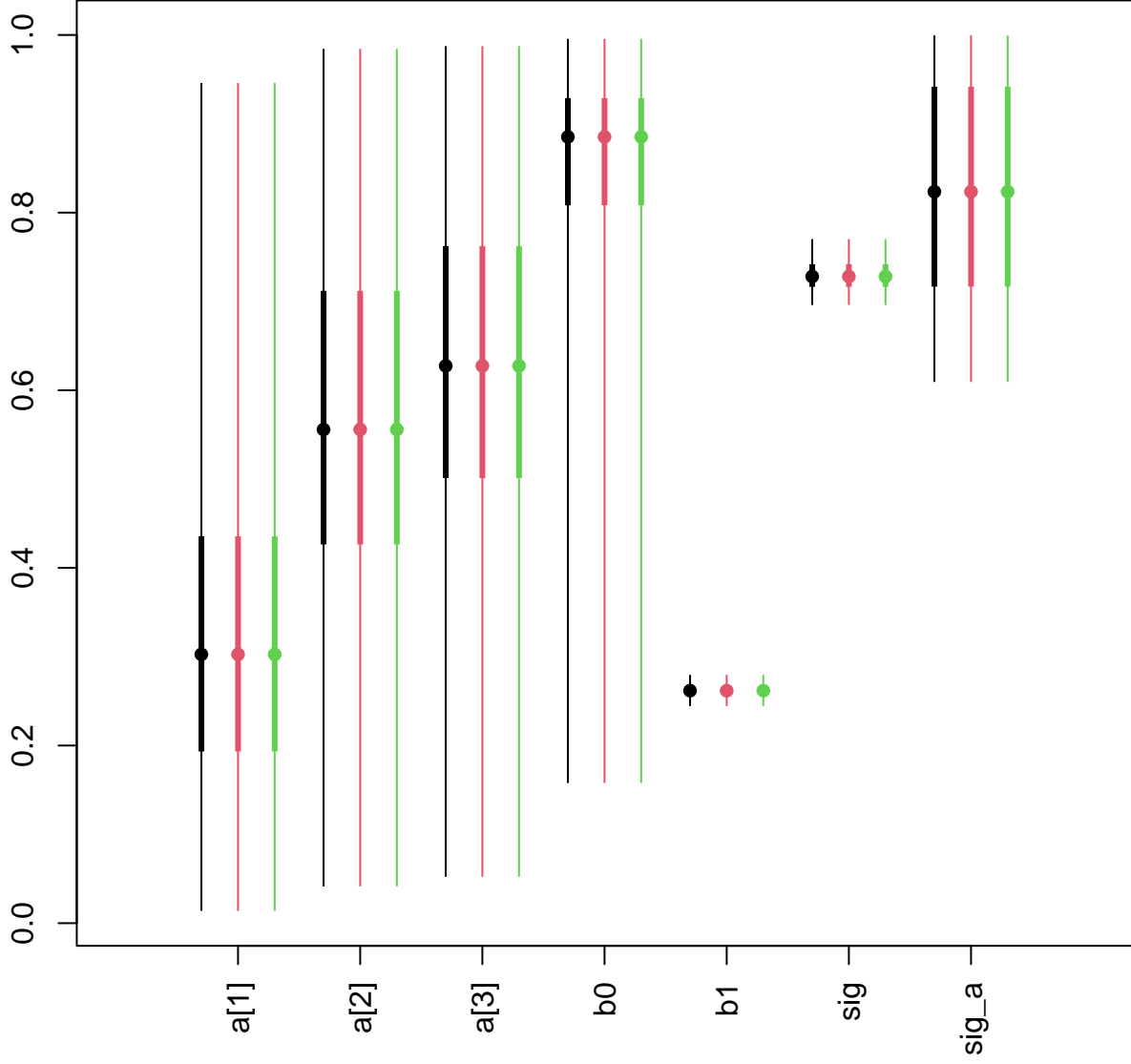


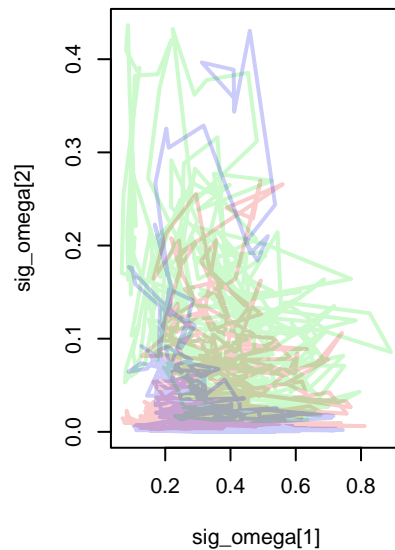
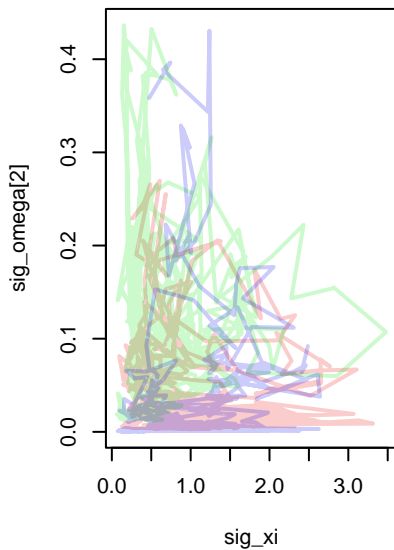
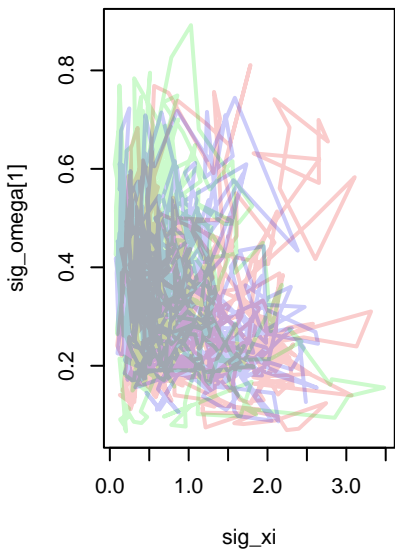
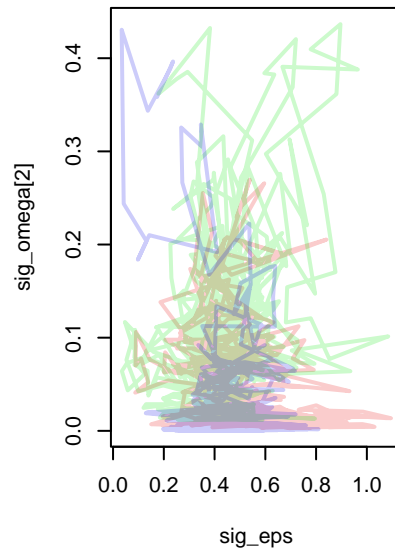
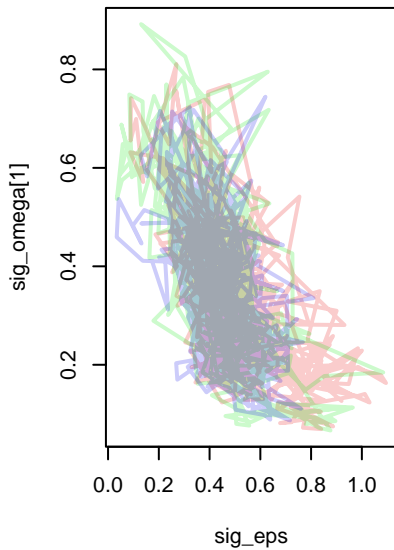
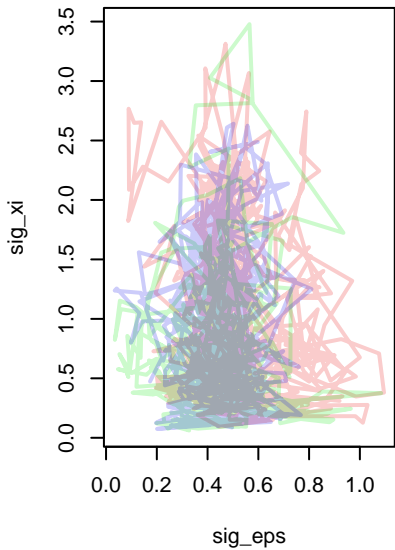


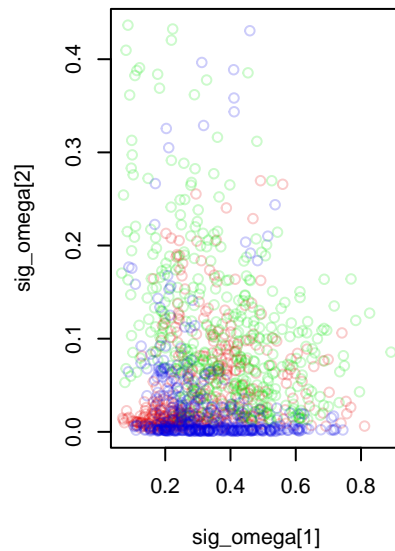
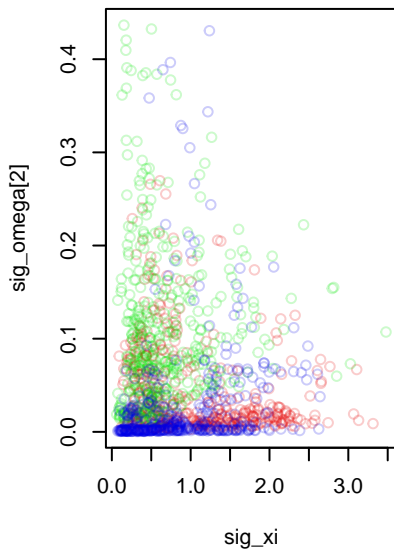
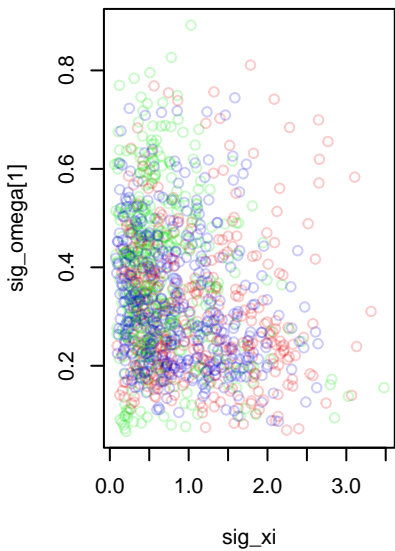
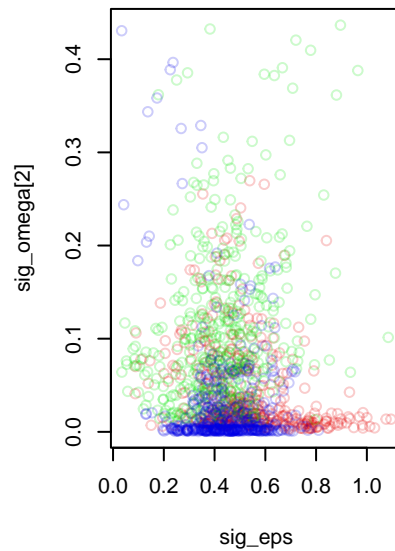
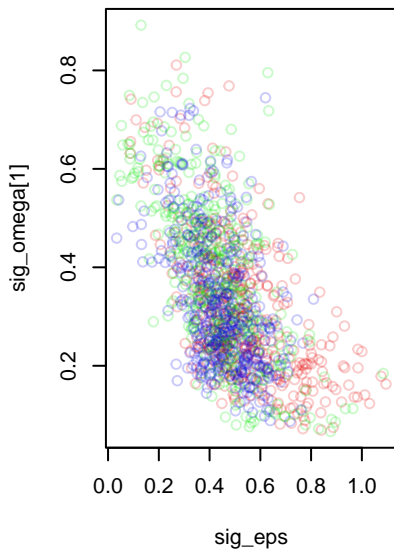
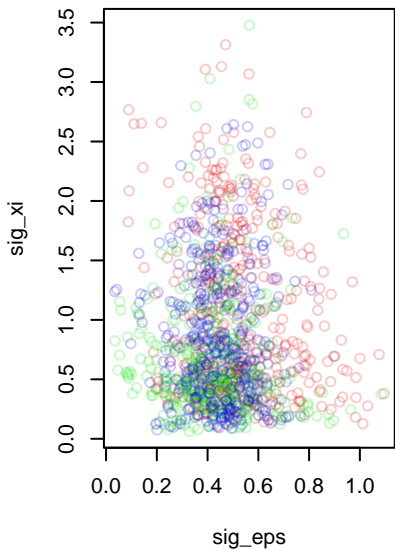




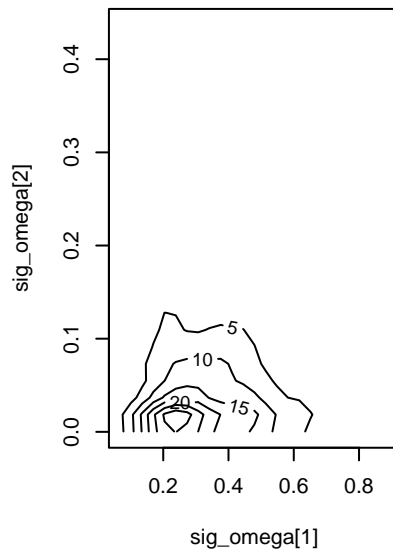
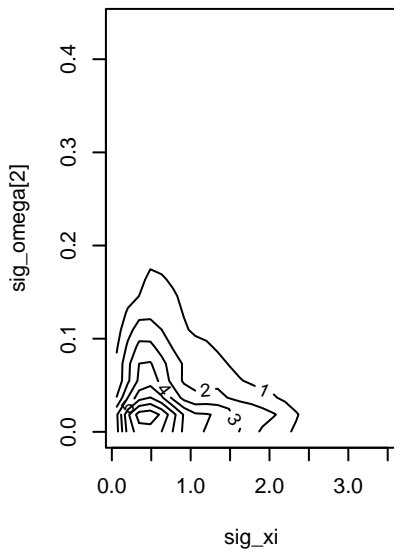
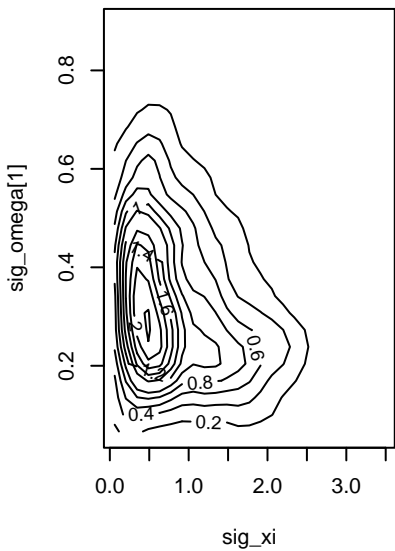
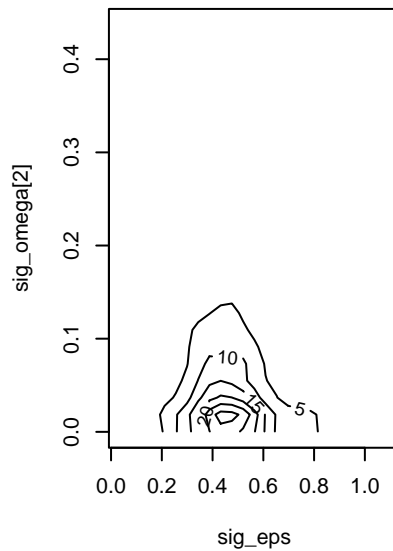
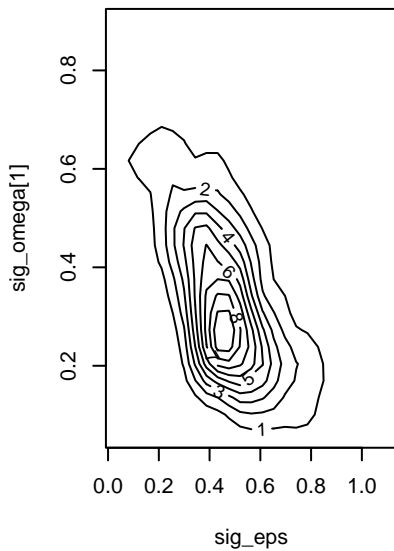
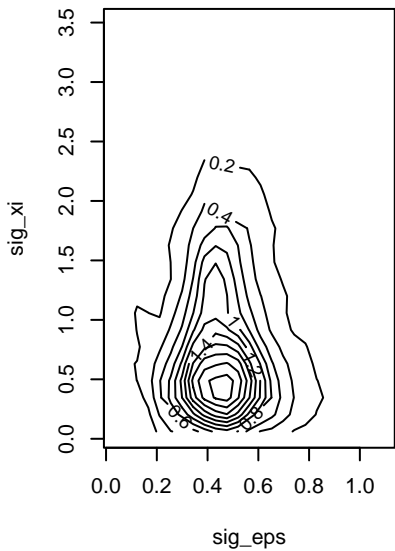


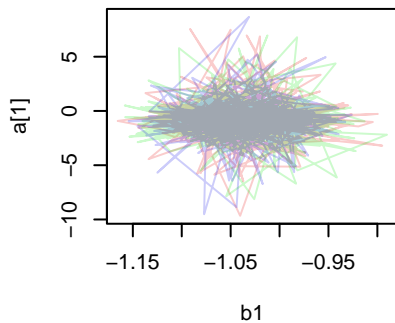
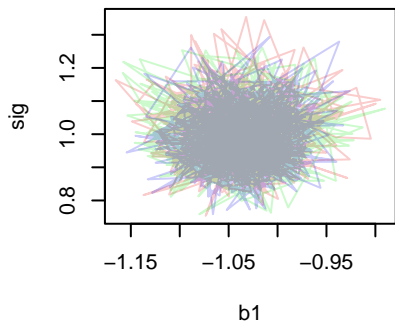
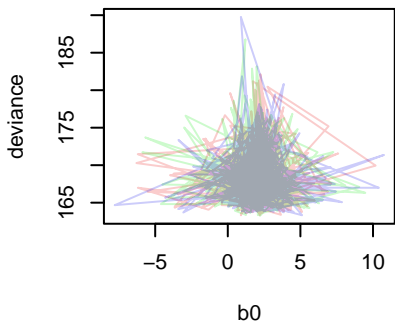
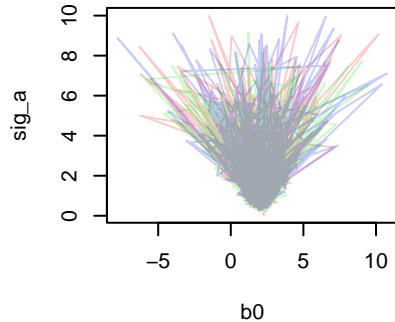
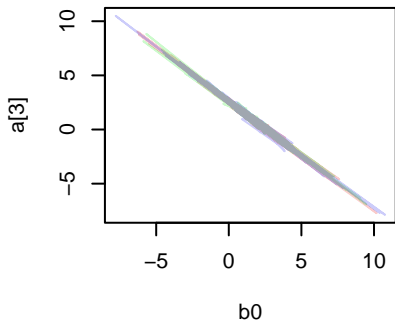
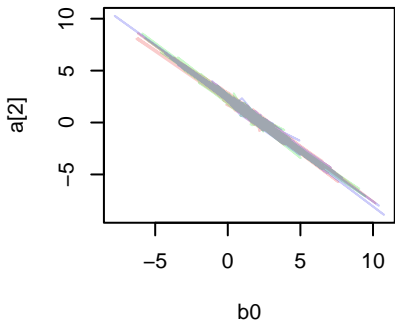
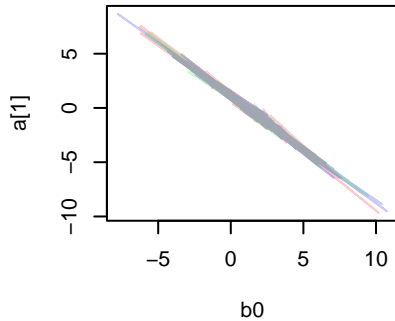
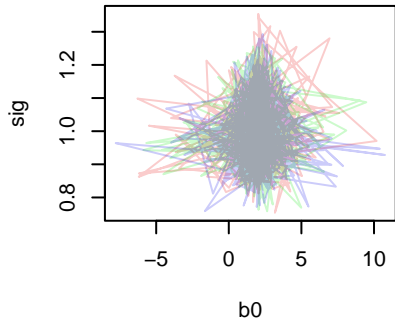
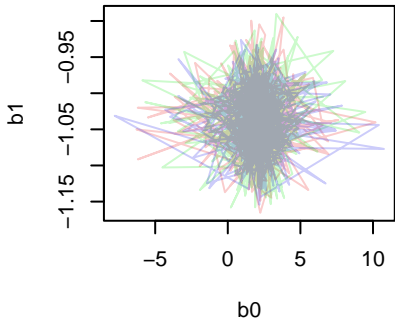


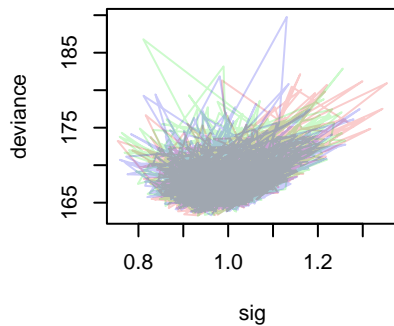
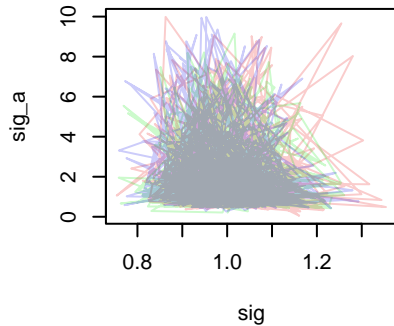
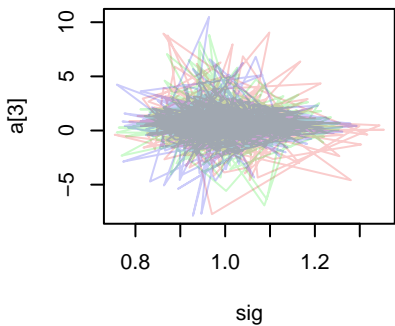
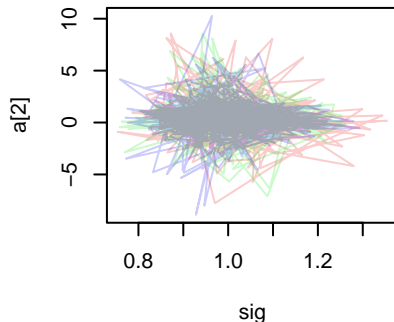
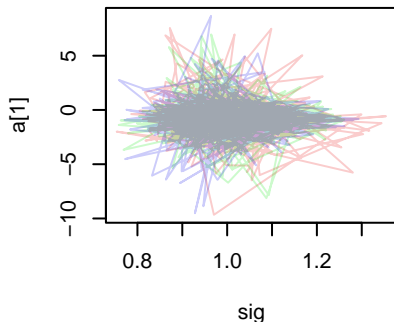
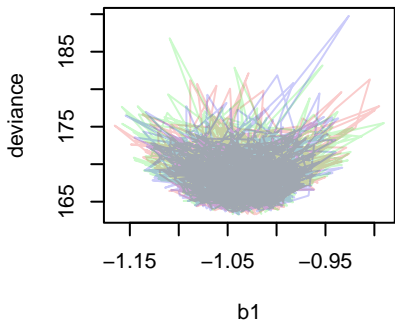
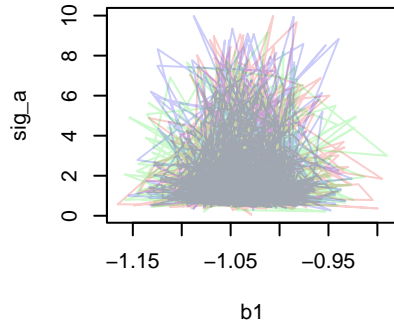
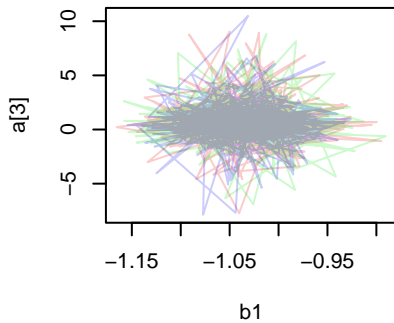
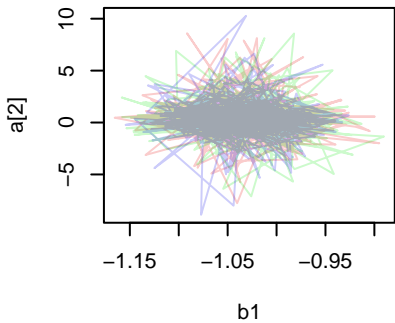


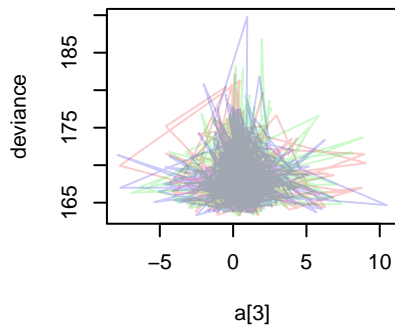
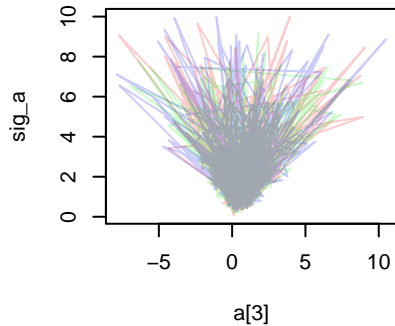
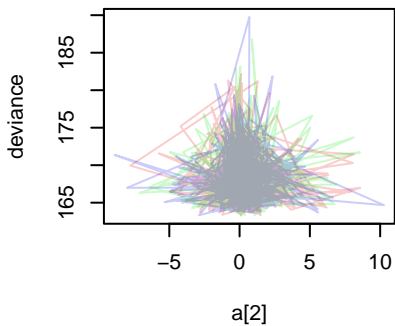
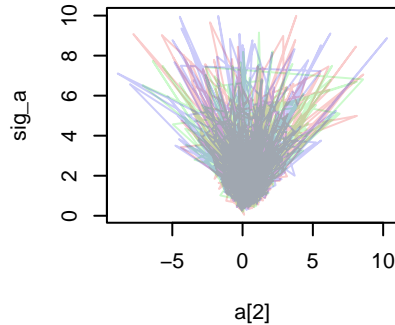
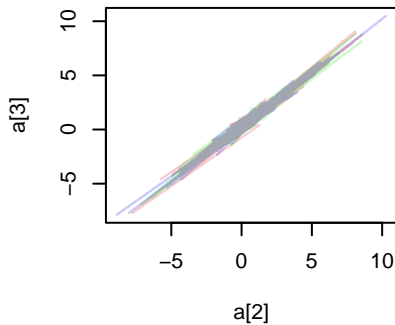
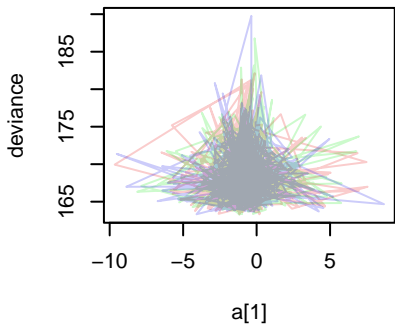
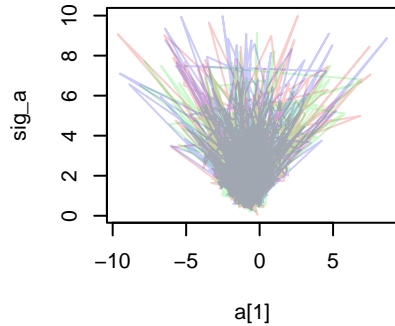
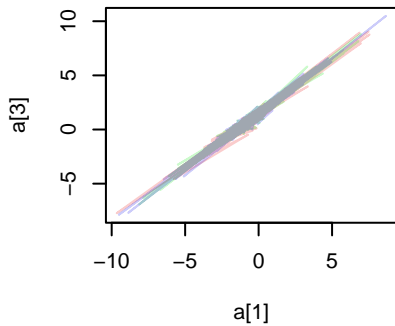
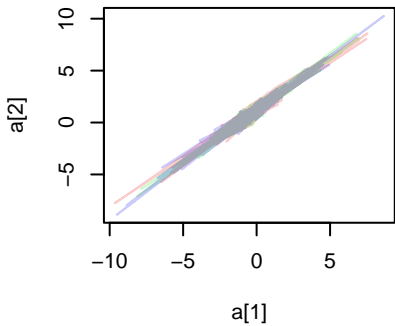


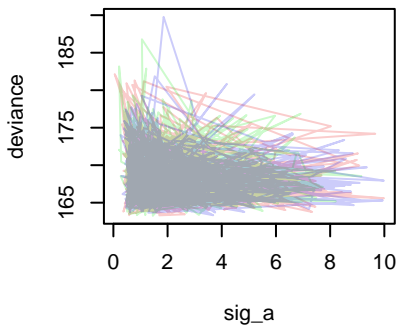


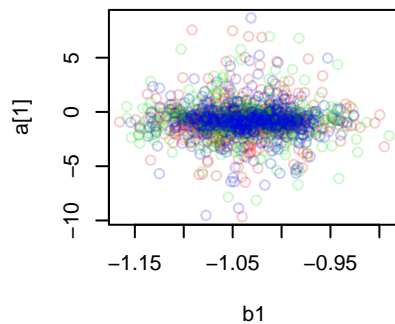
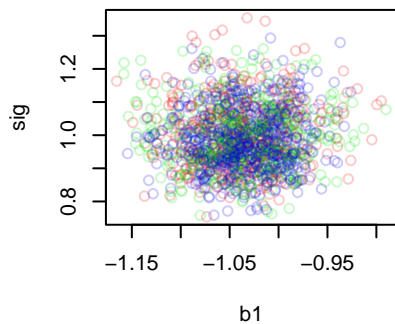
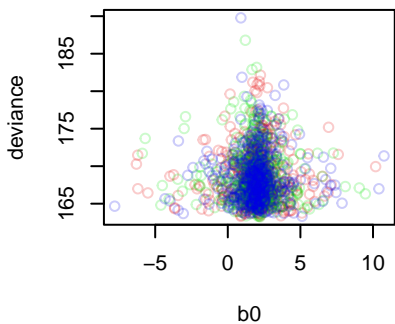
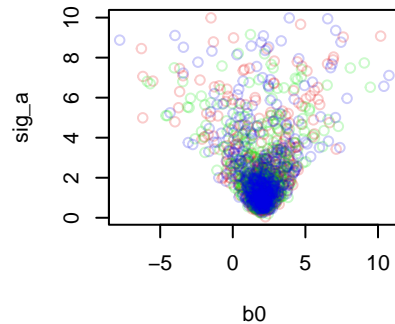
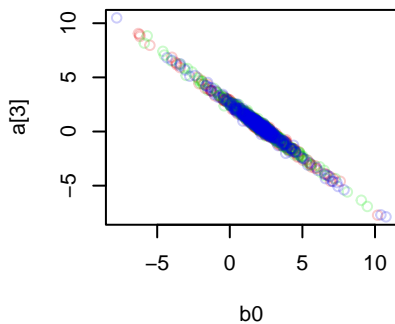
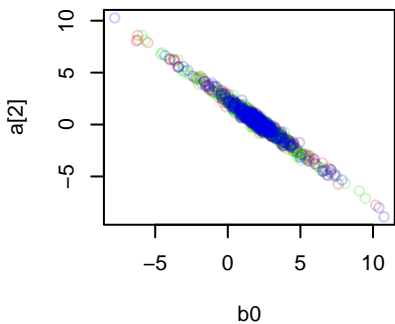
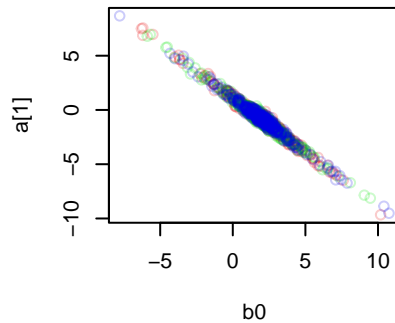
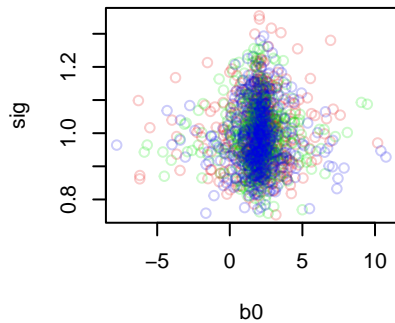
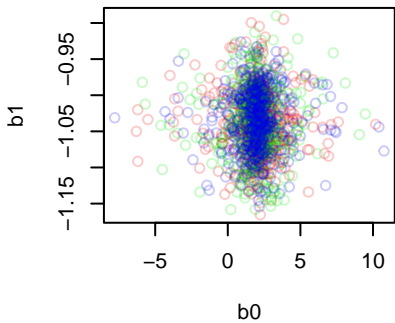


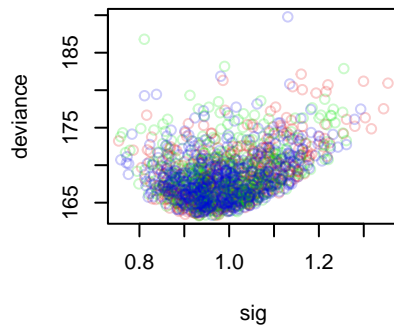
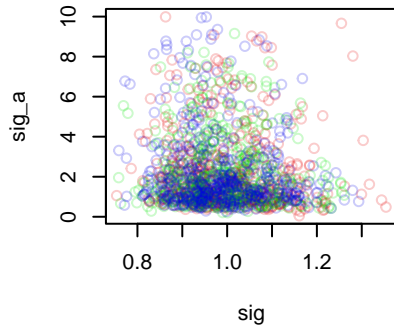
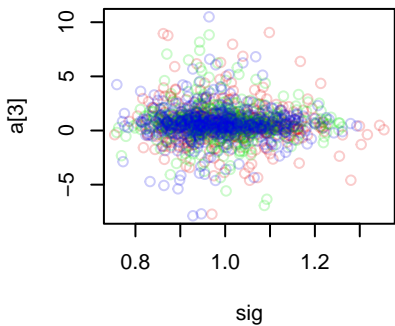
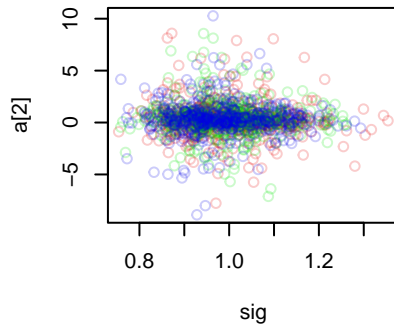
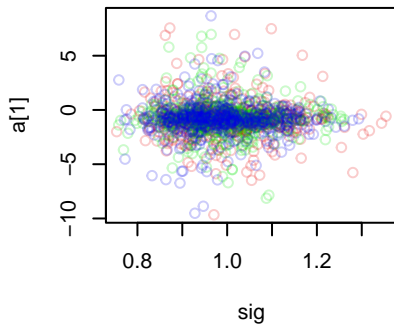
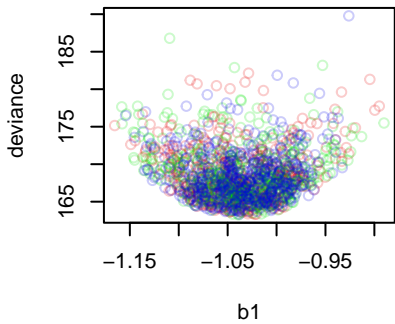
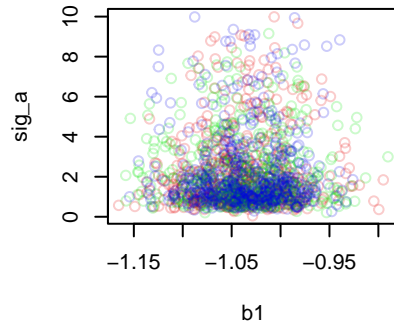
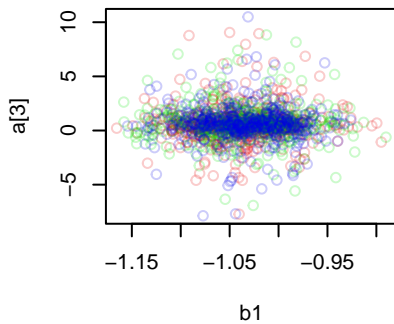
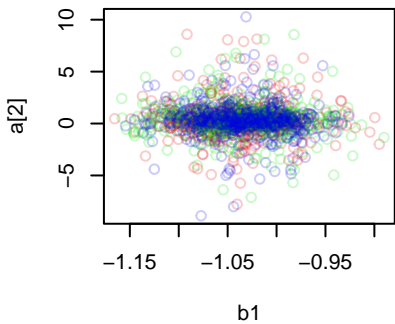


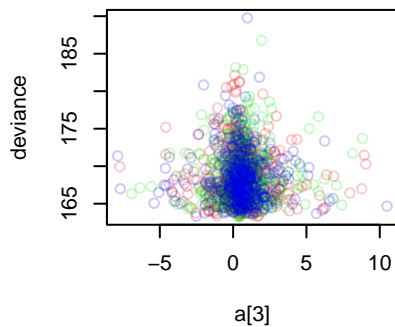
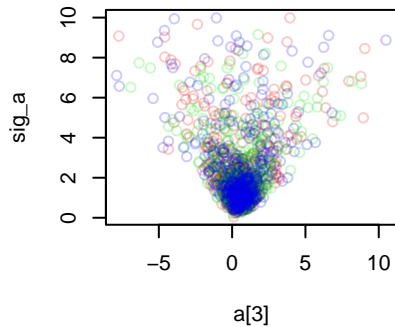
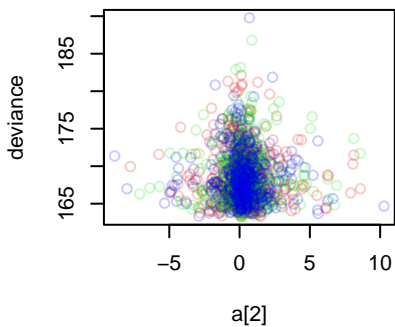
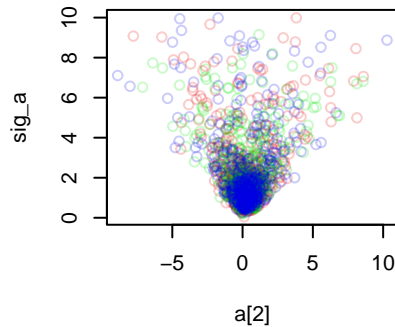
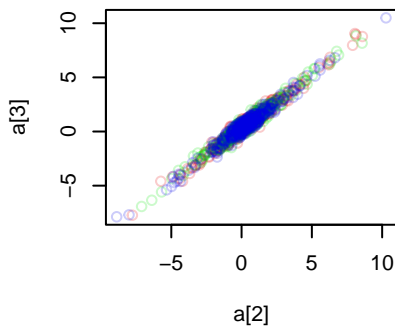
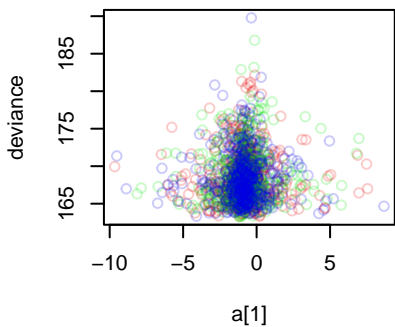
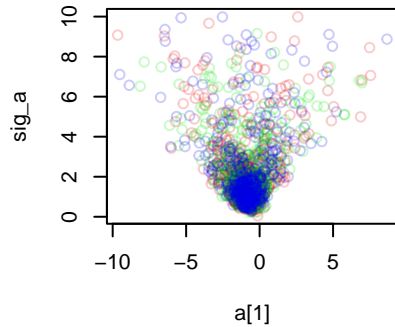
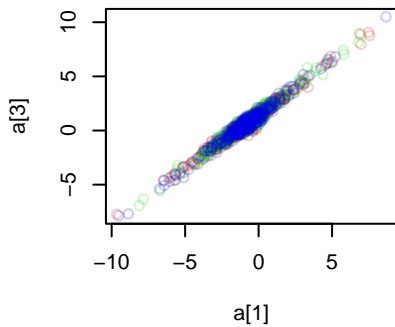
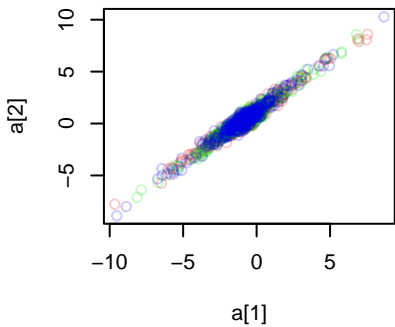




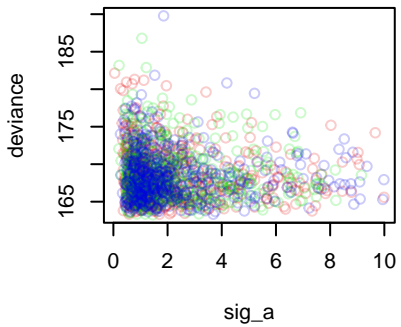


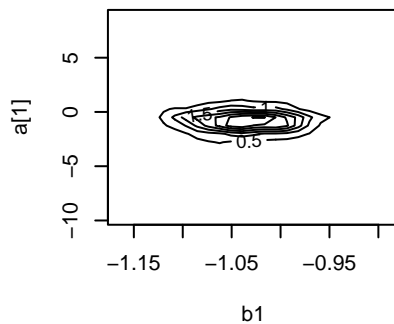
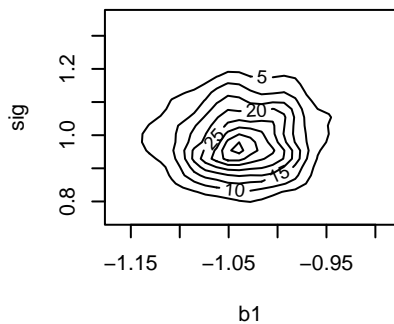
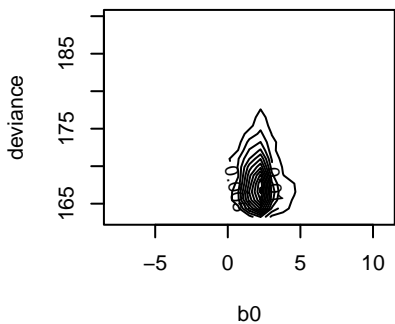
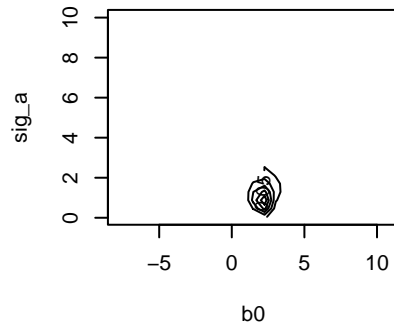
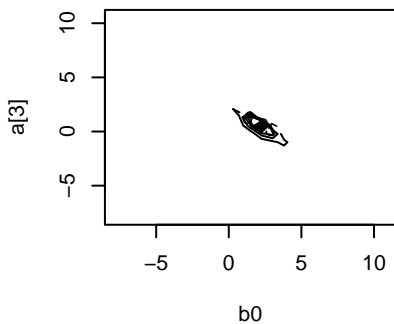
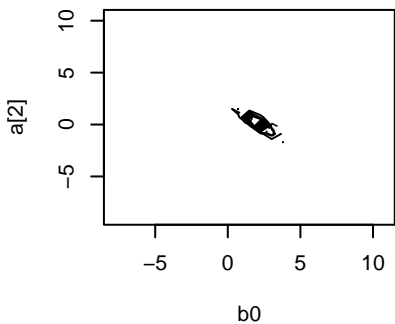
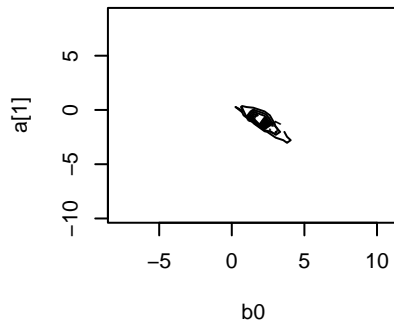
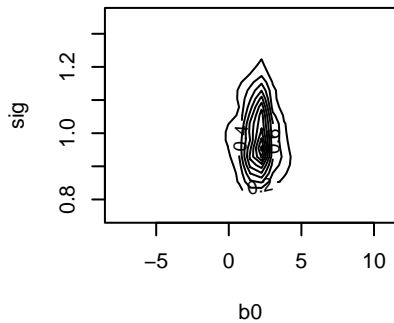
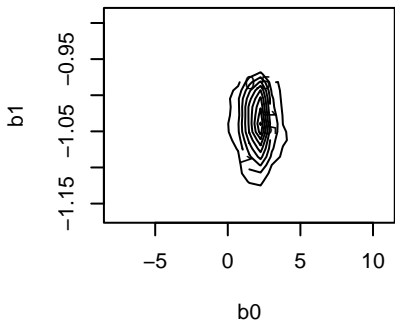


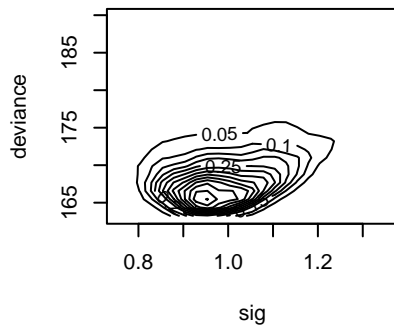
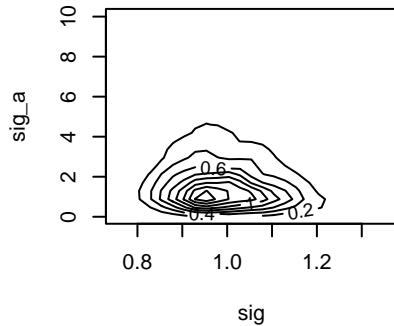
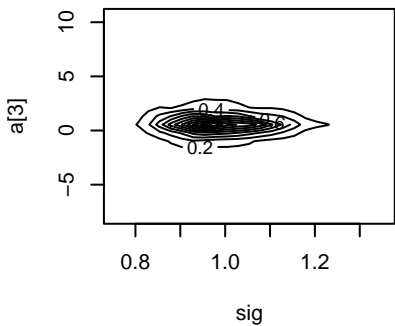
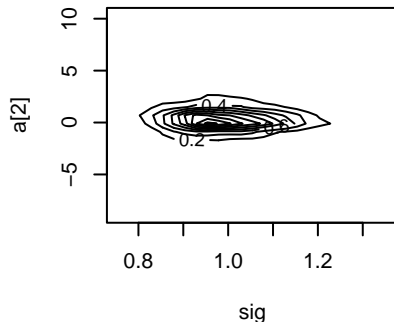
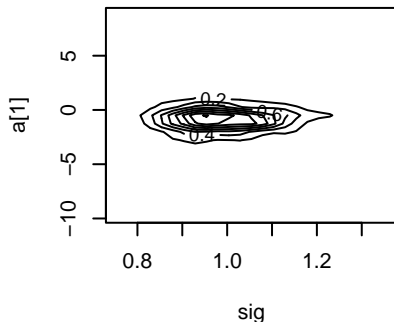
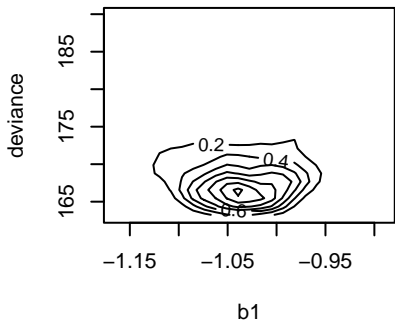
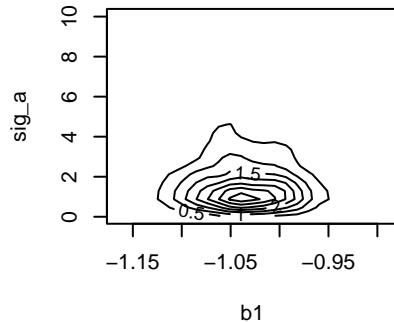
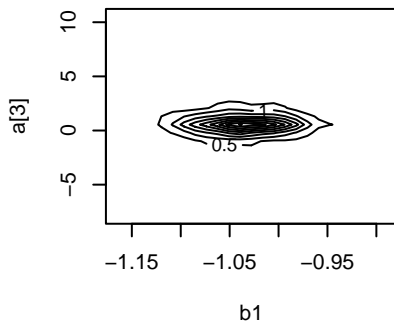
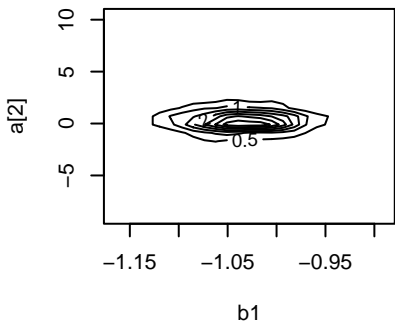


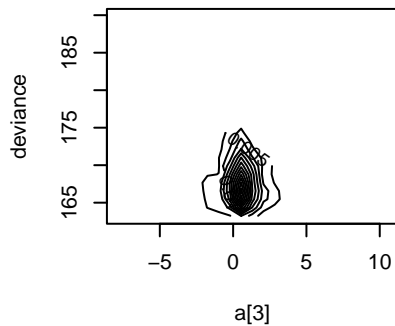
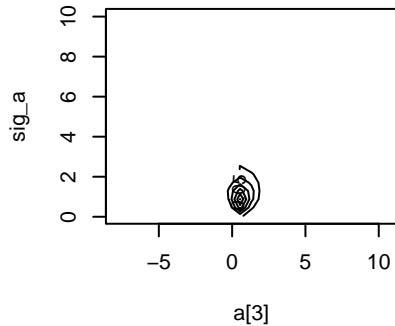
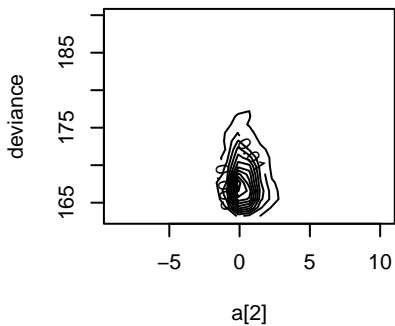
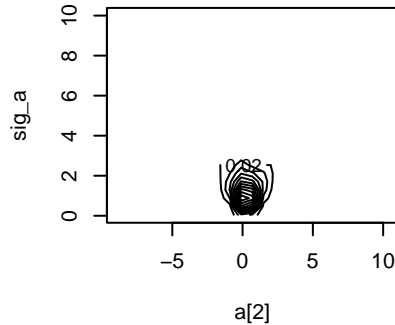
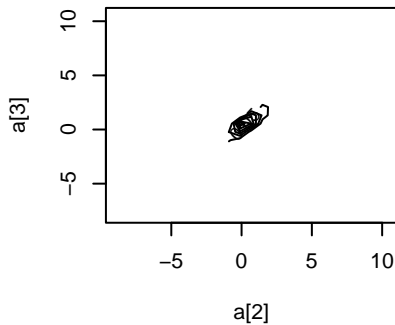
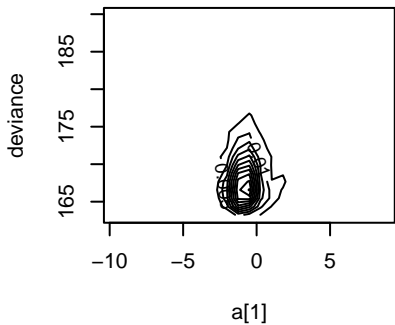
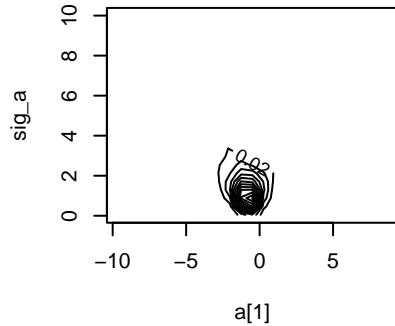
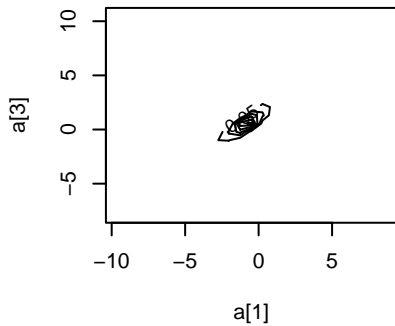
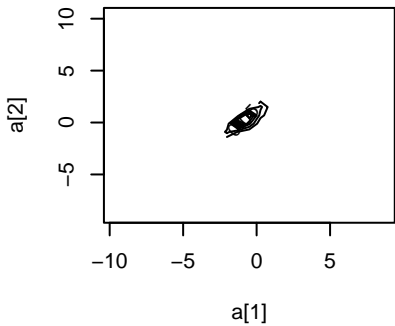


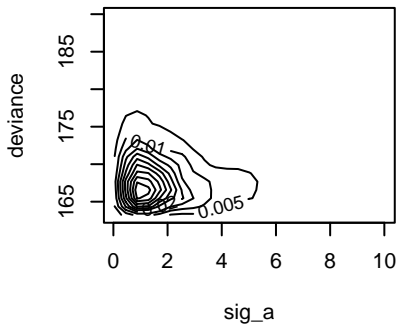


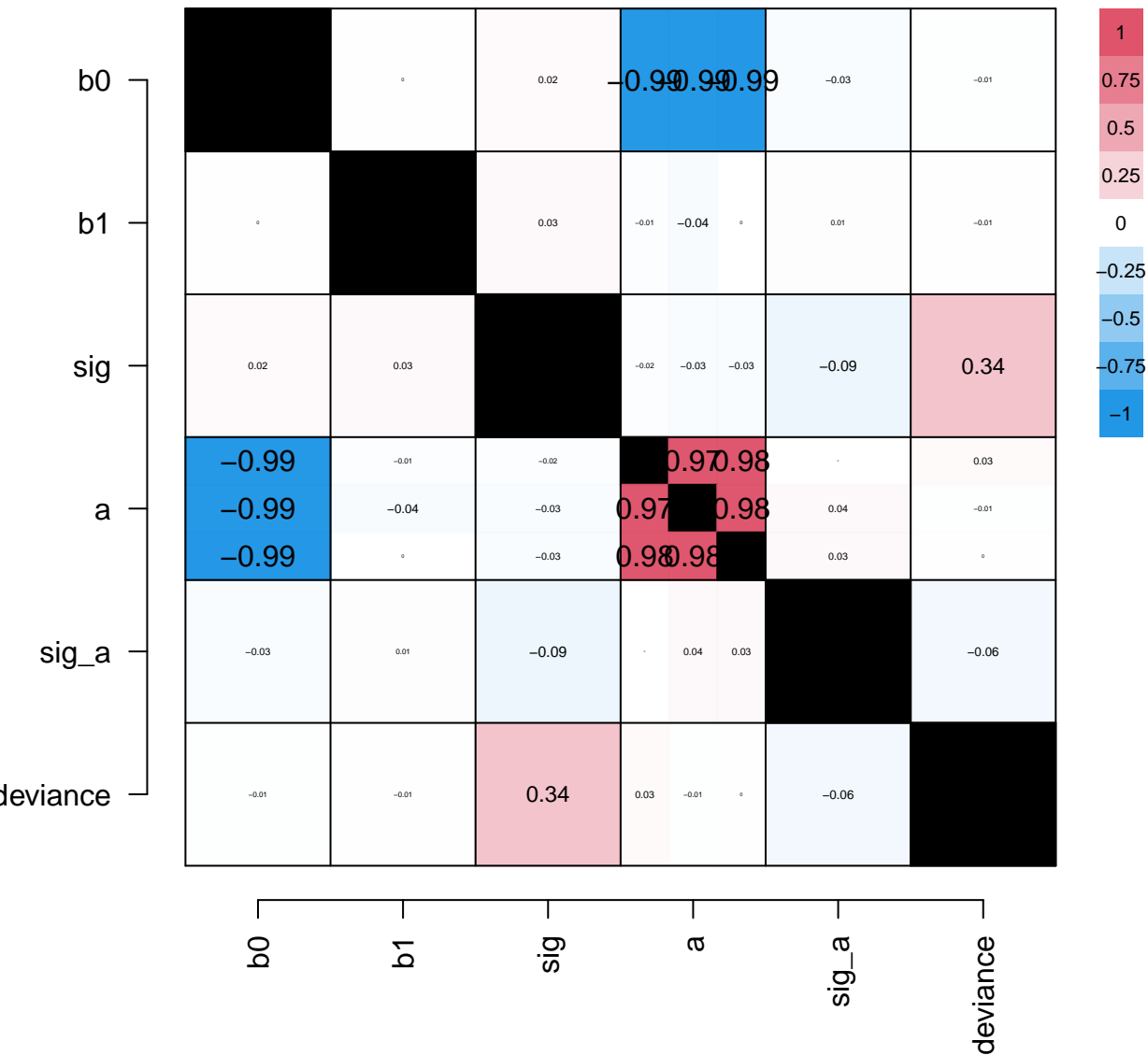


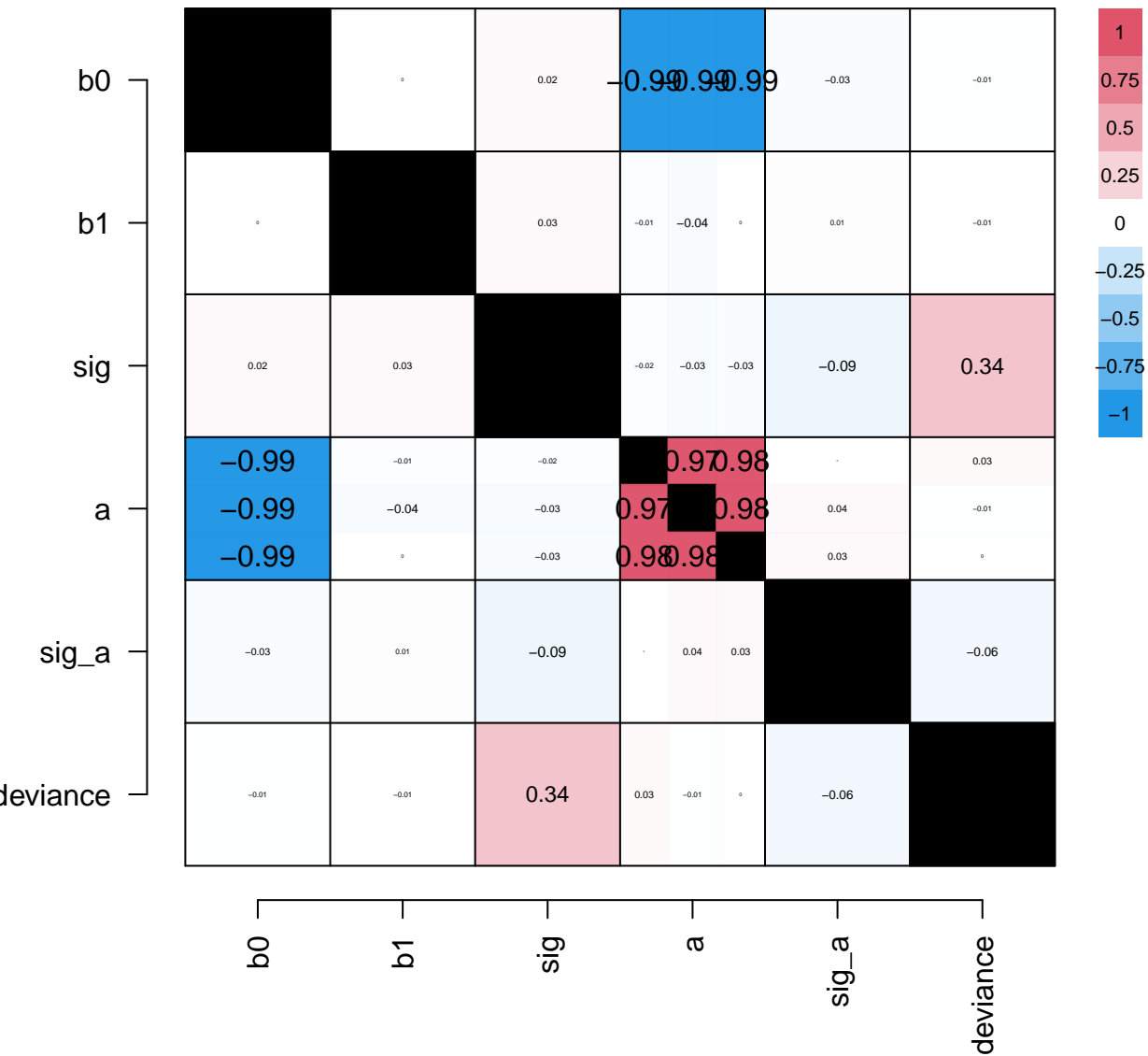


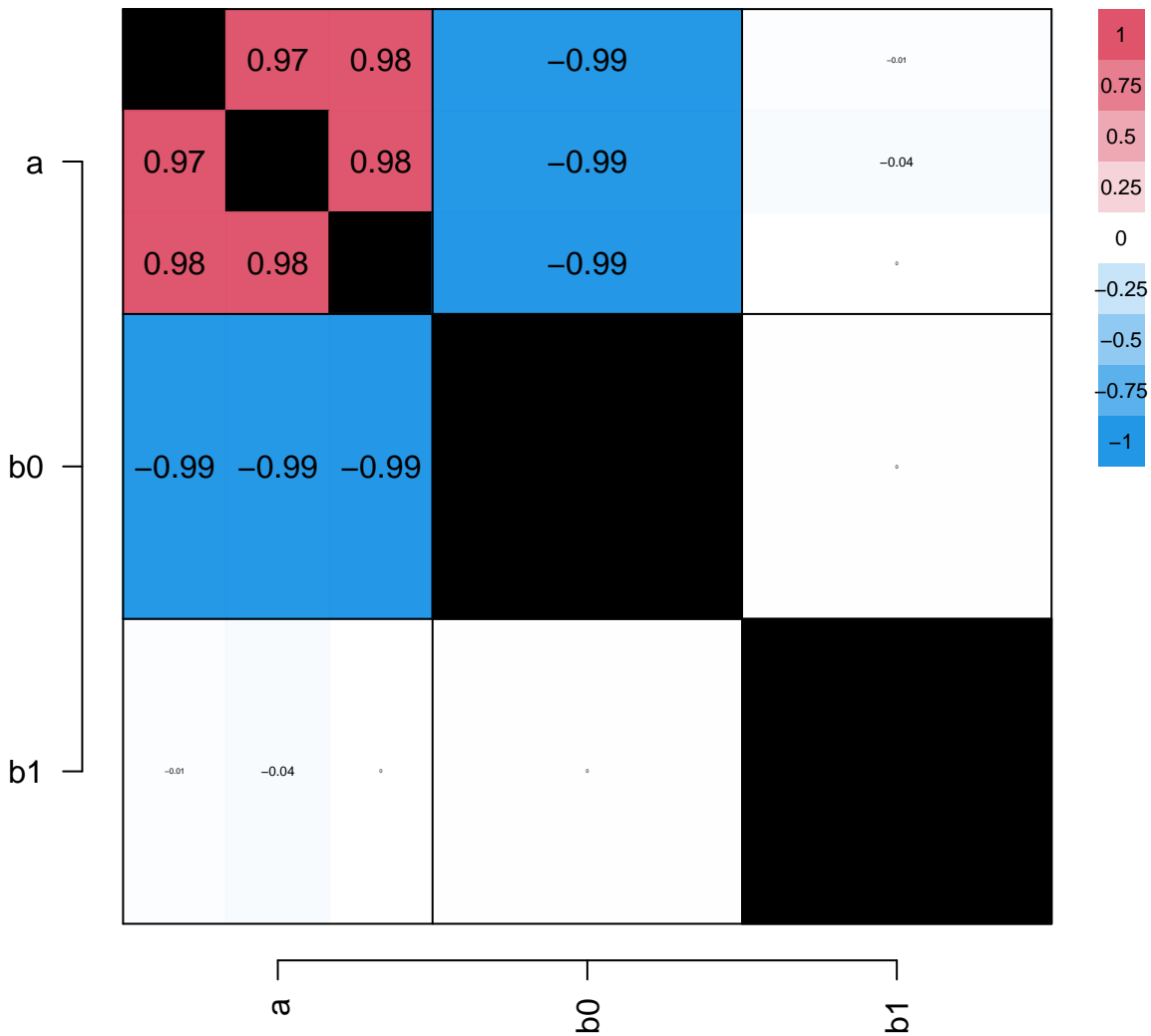




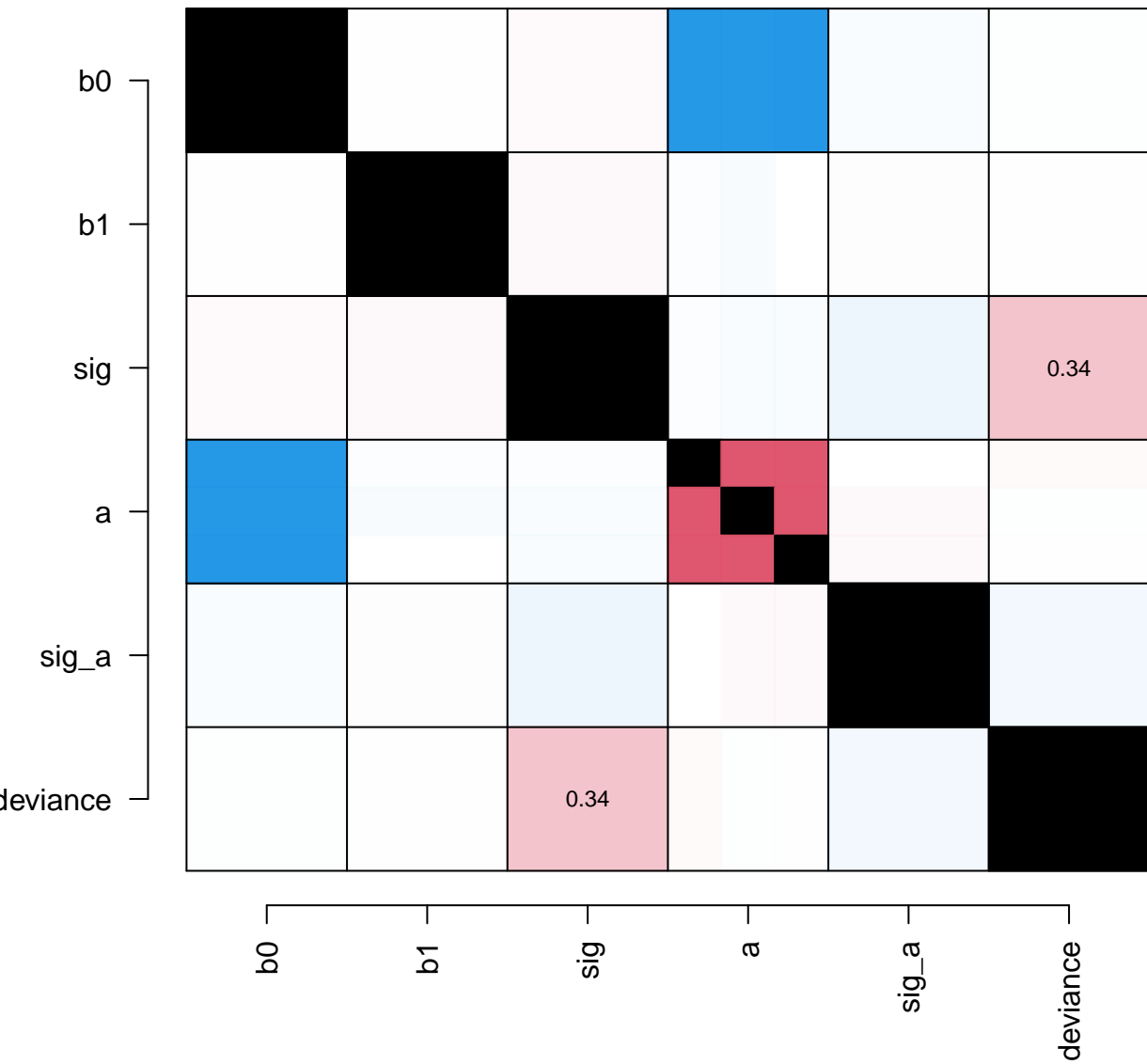




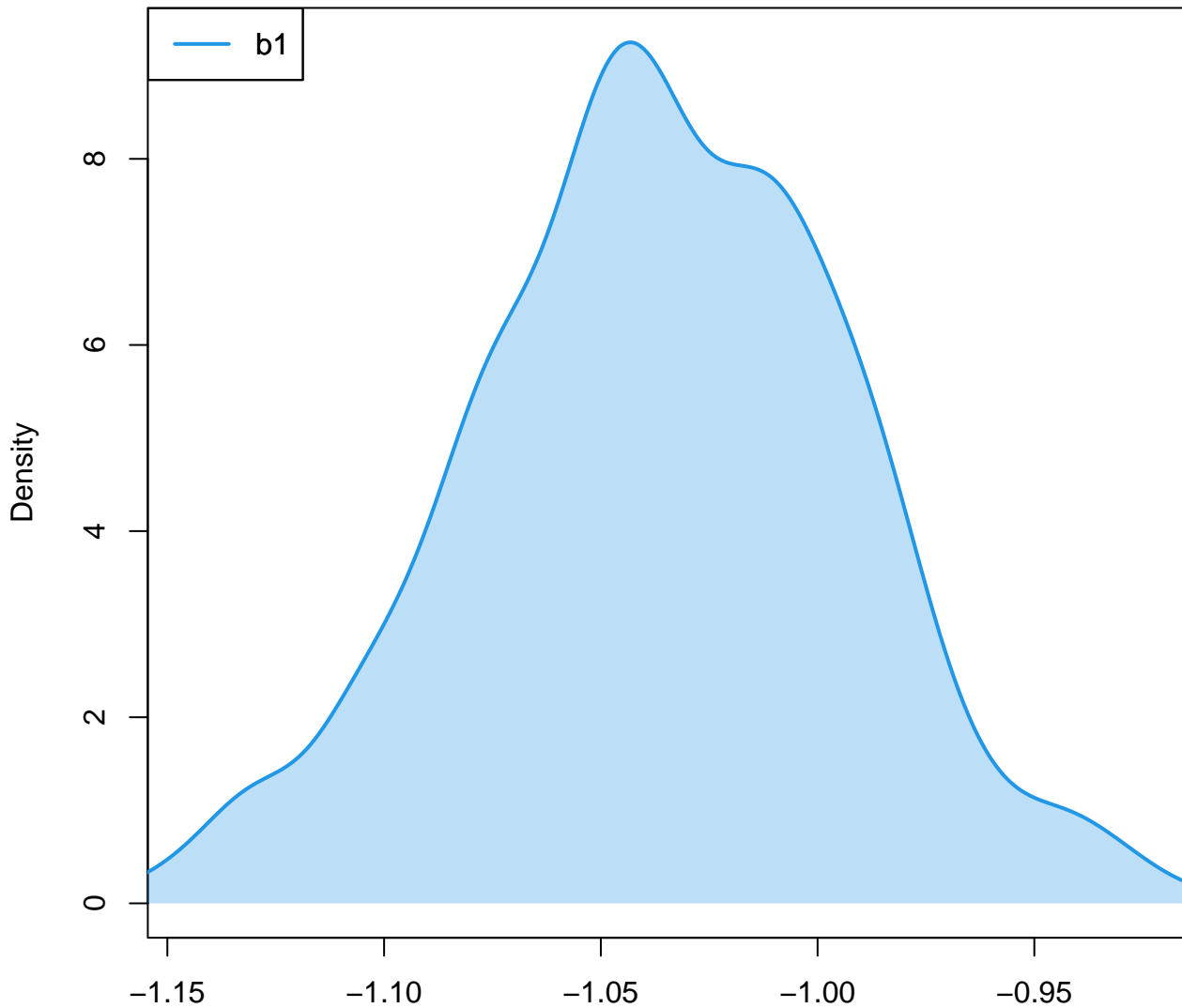




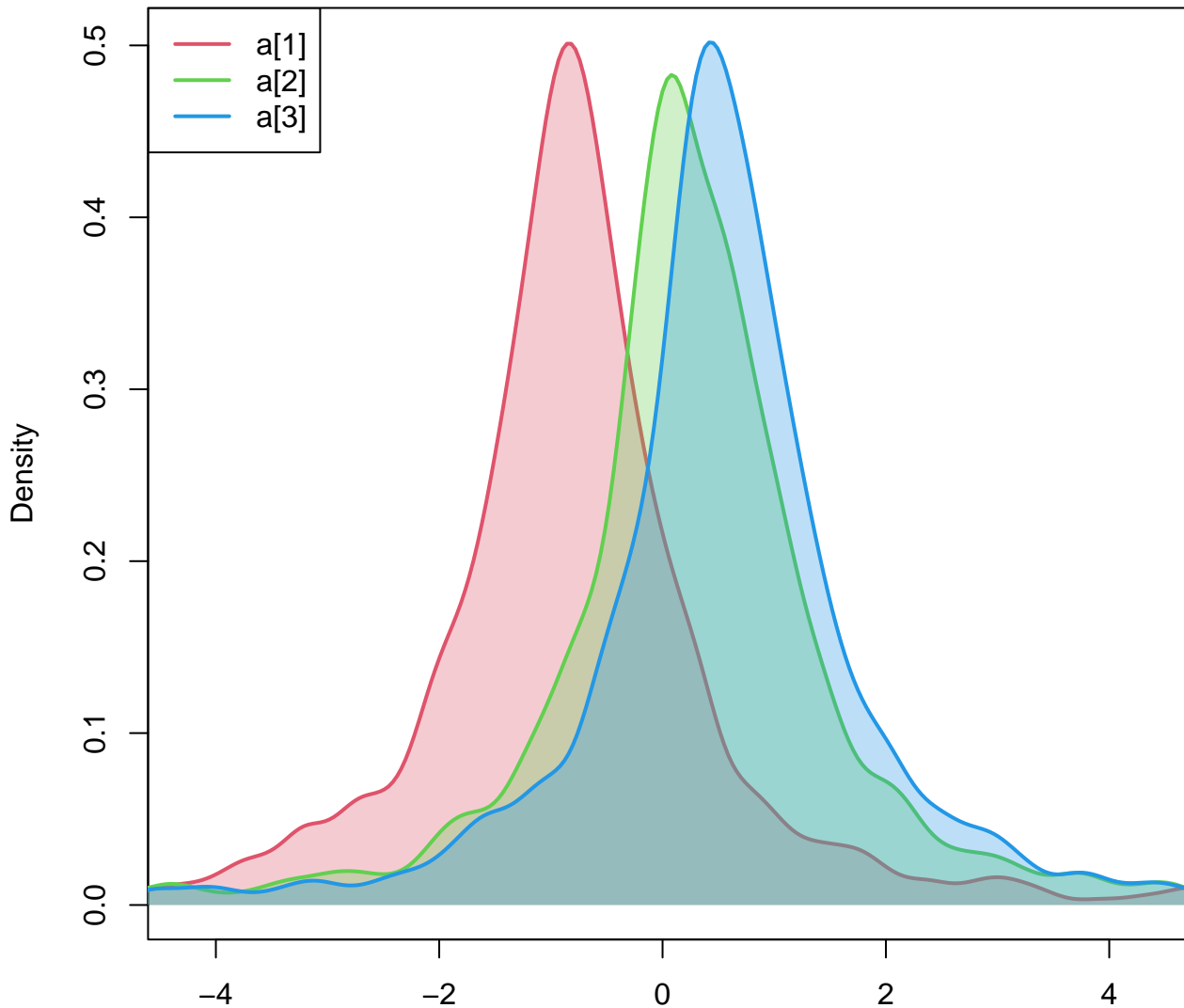


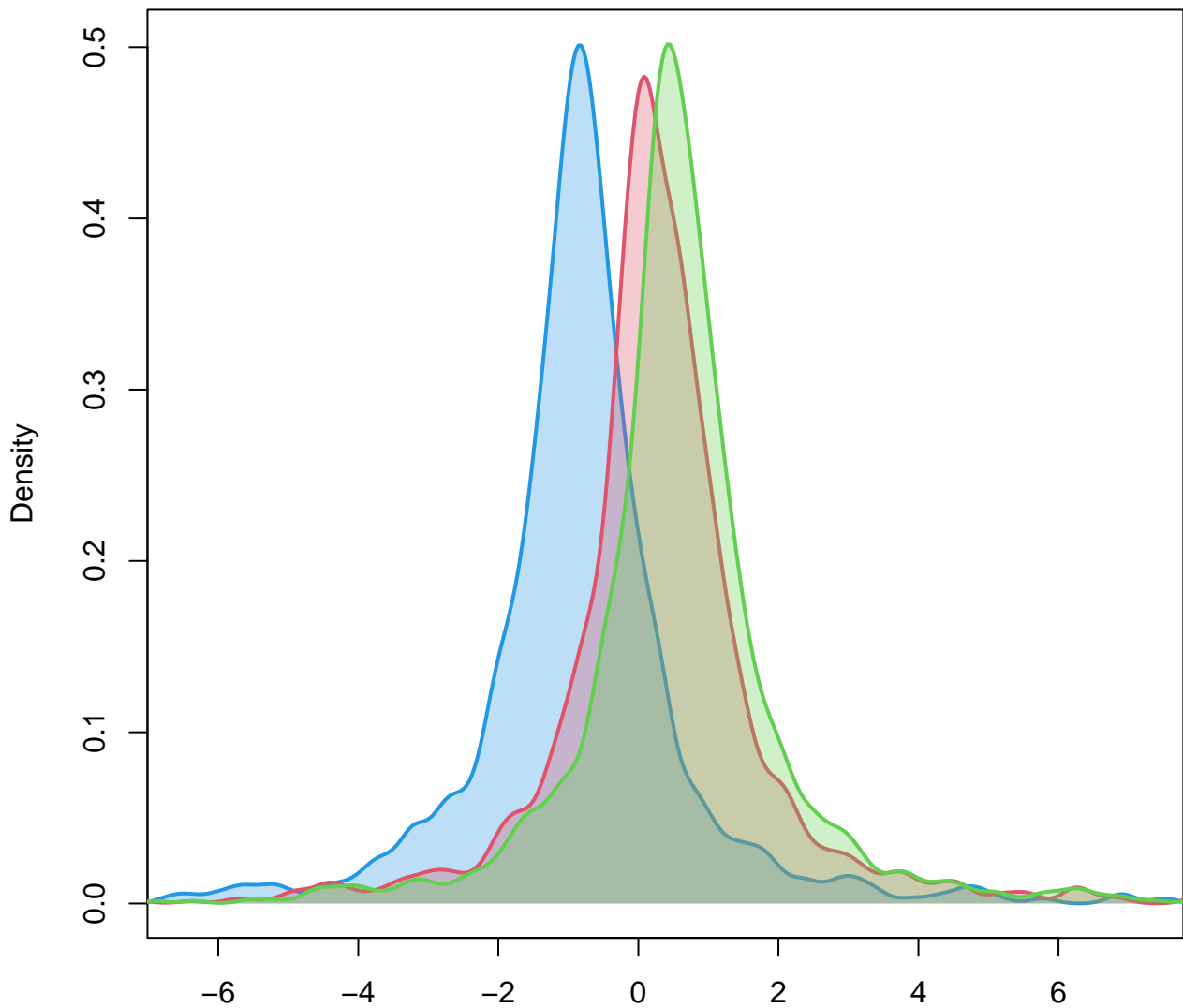


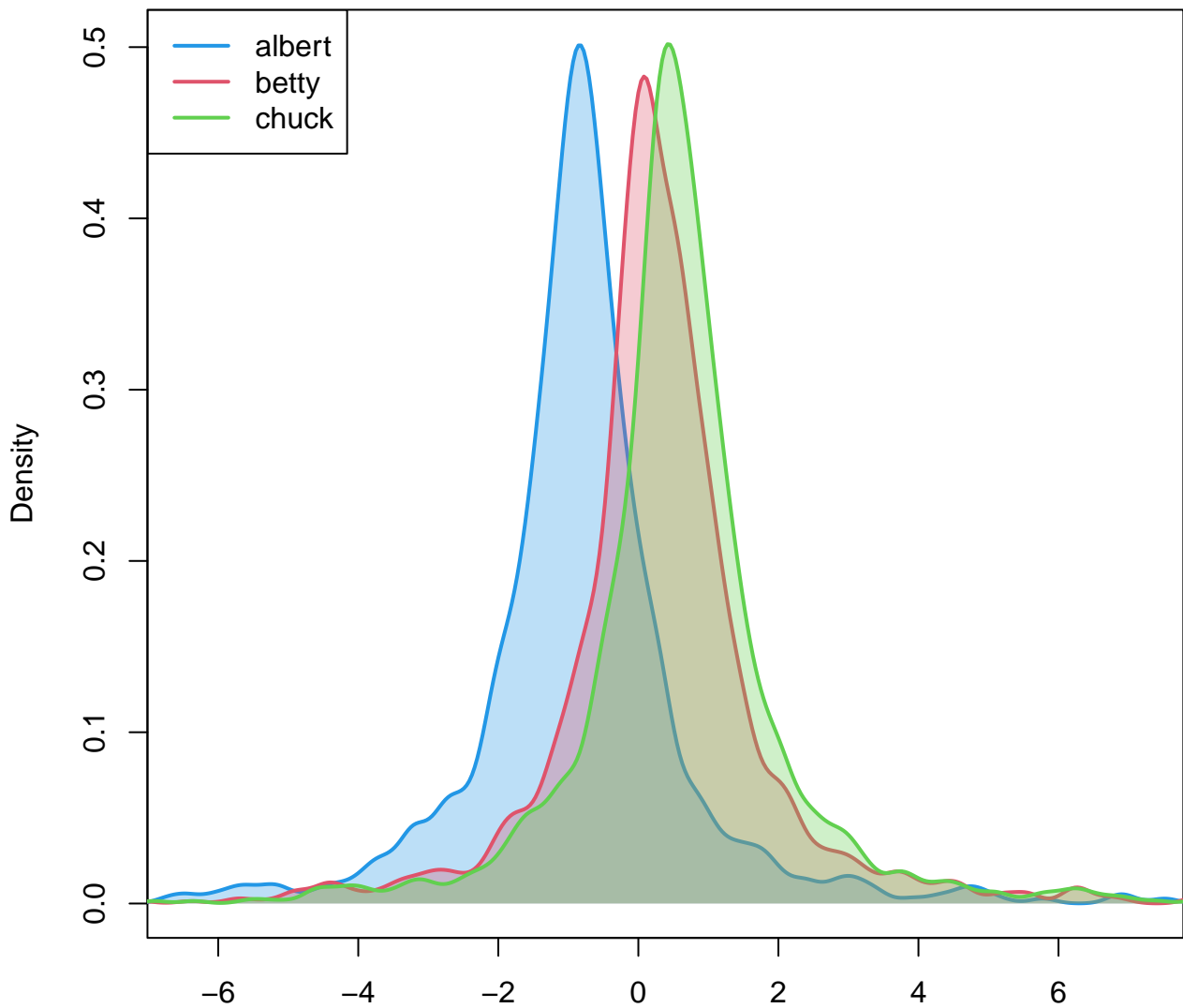
**b1**



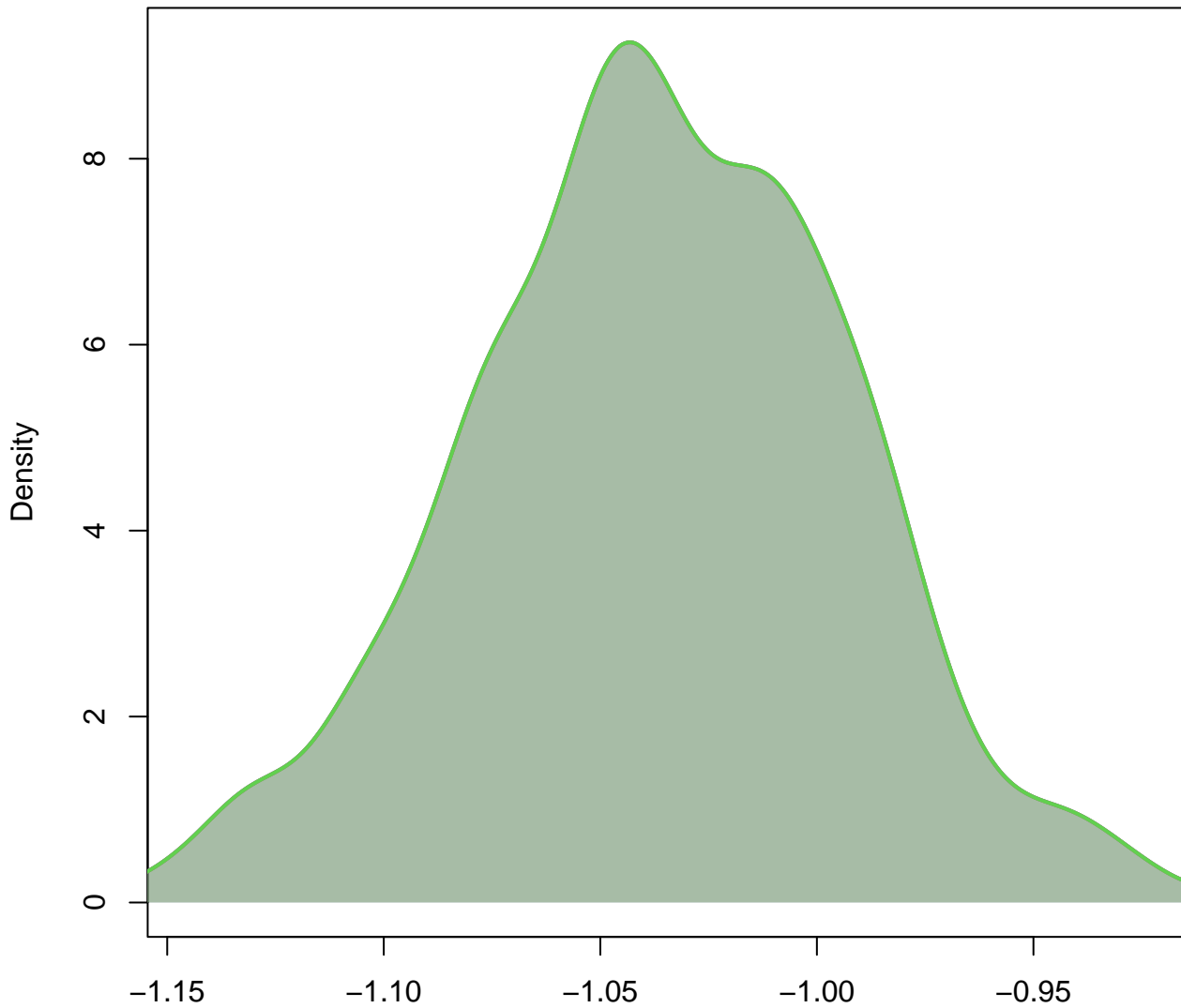
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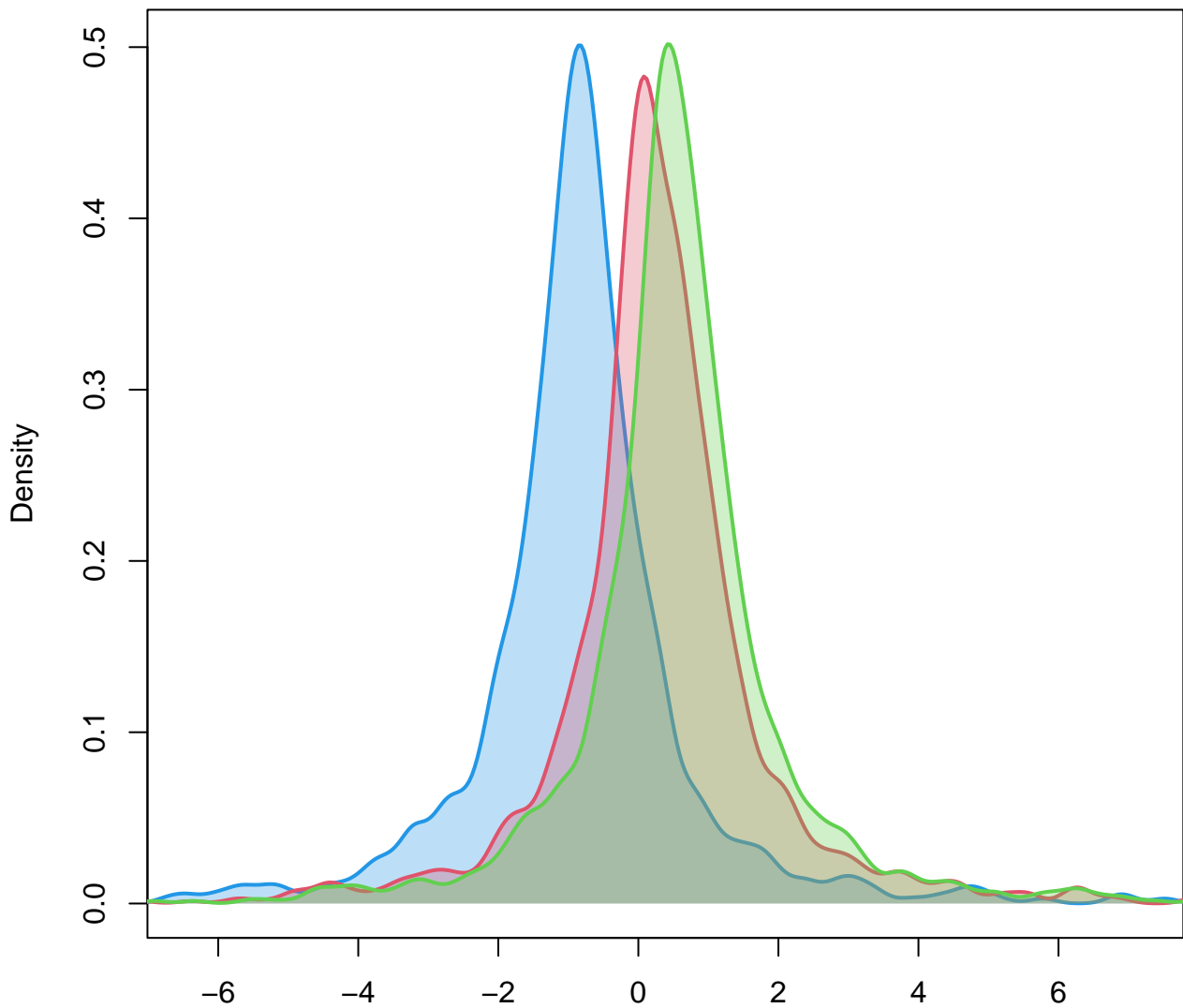


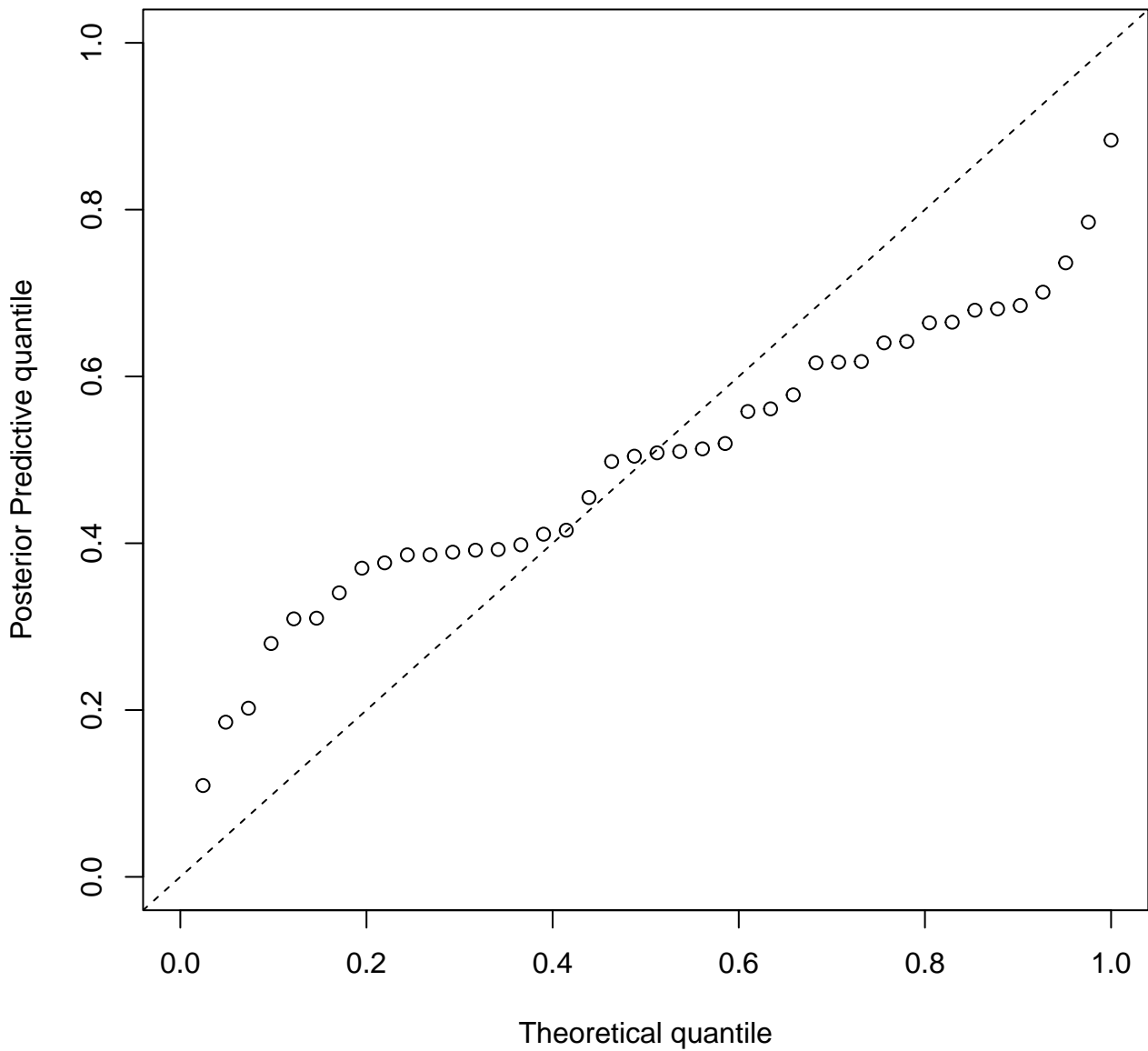




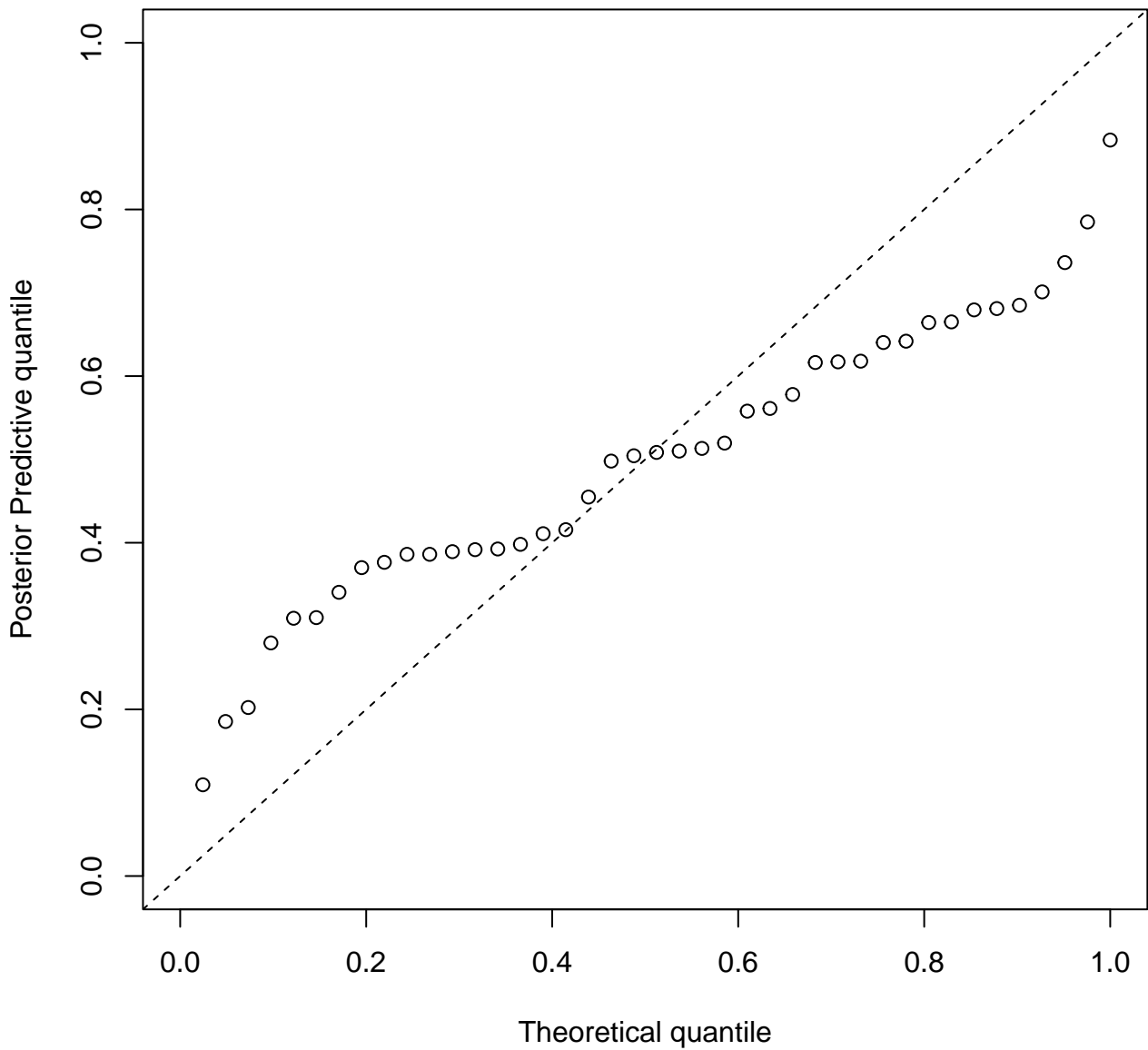
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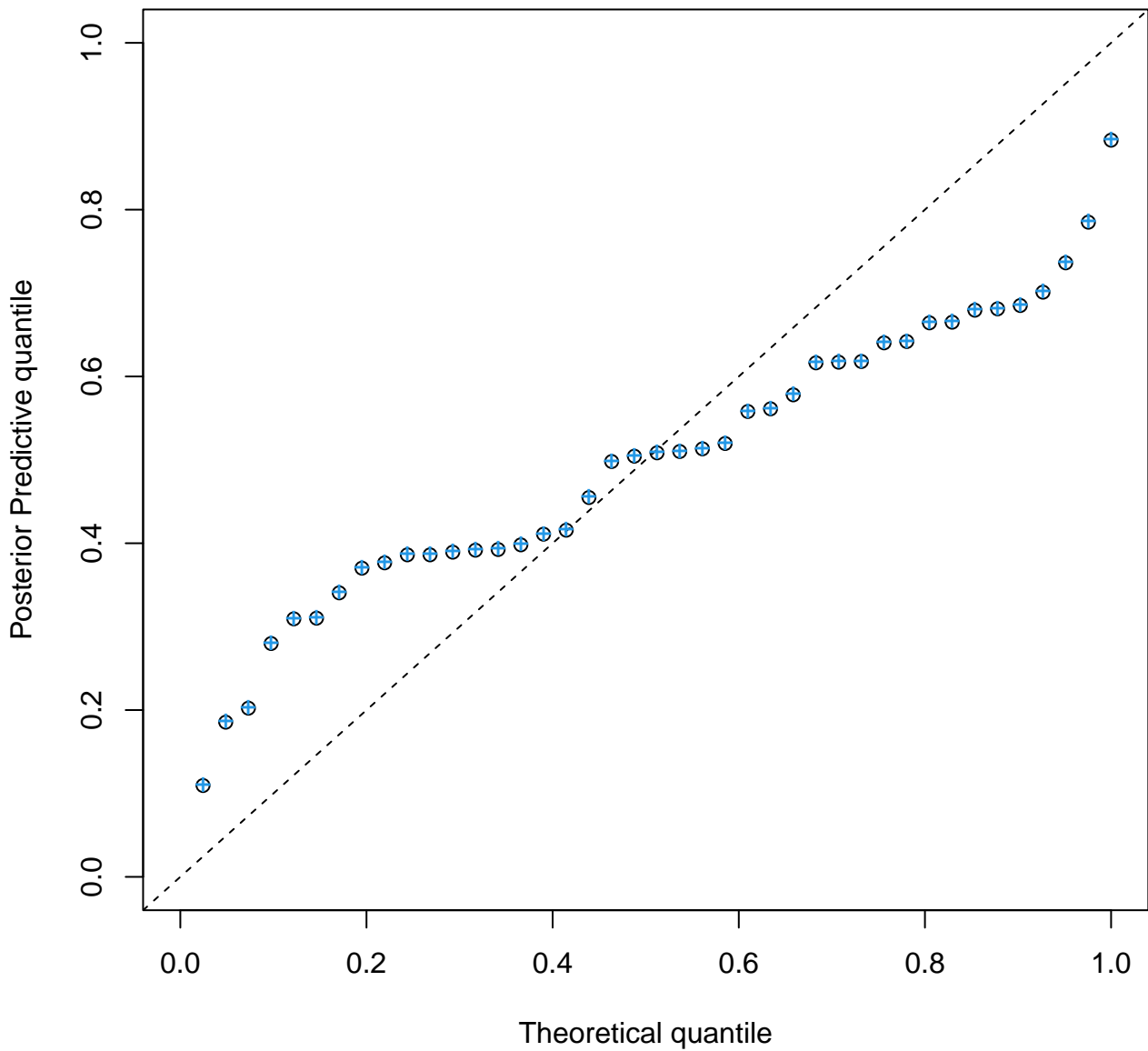


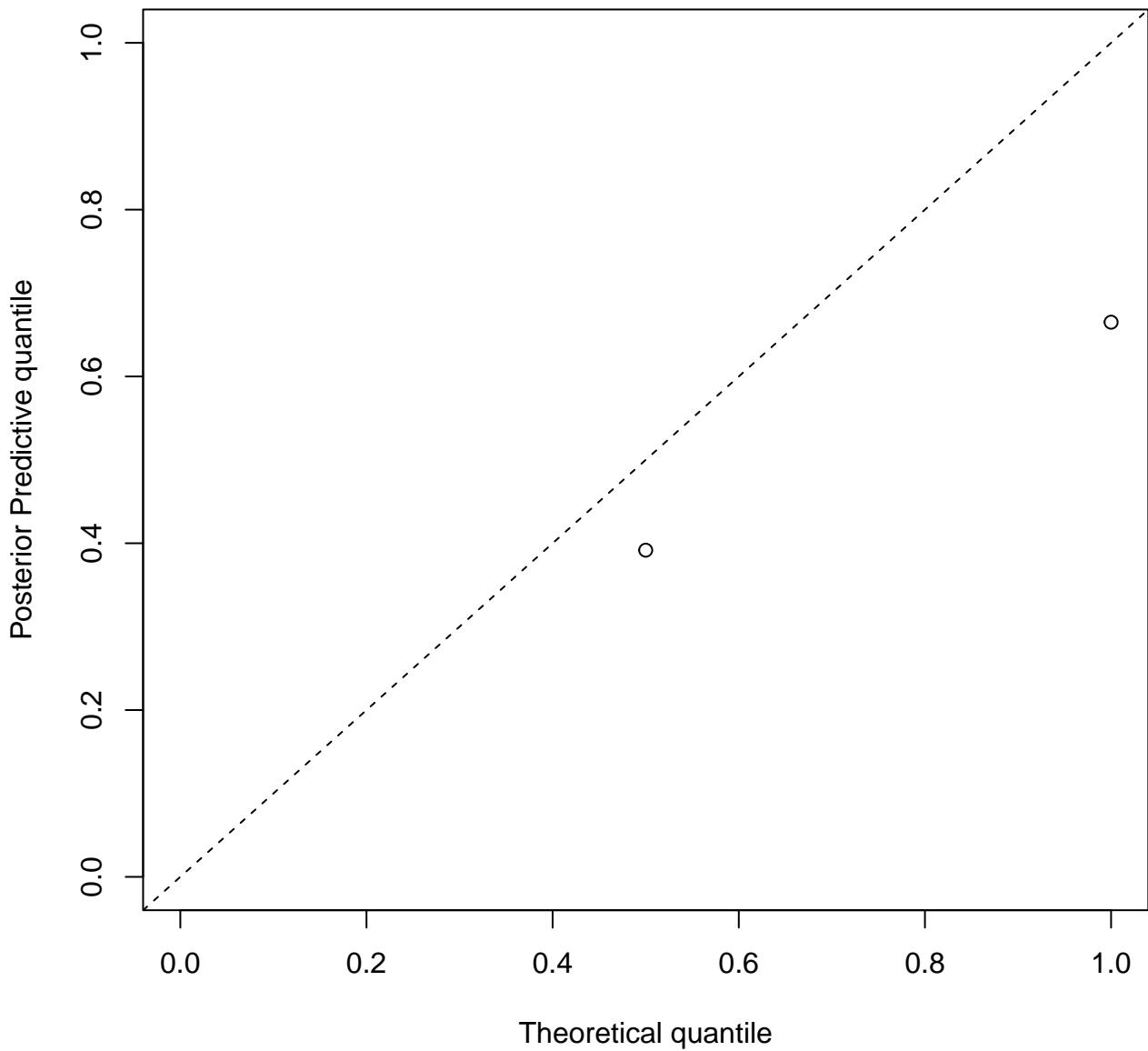


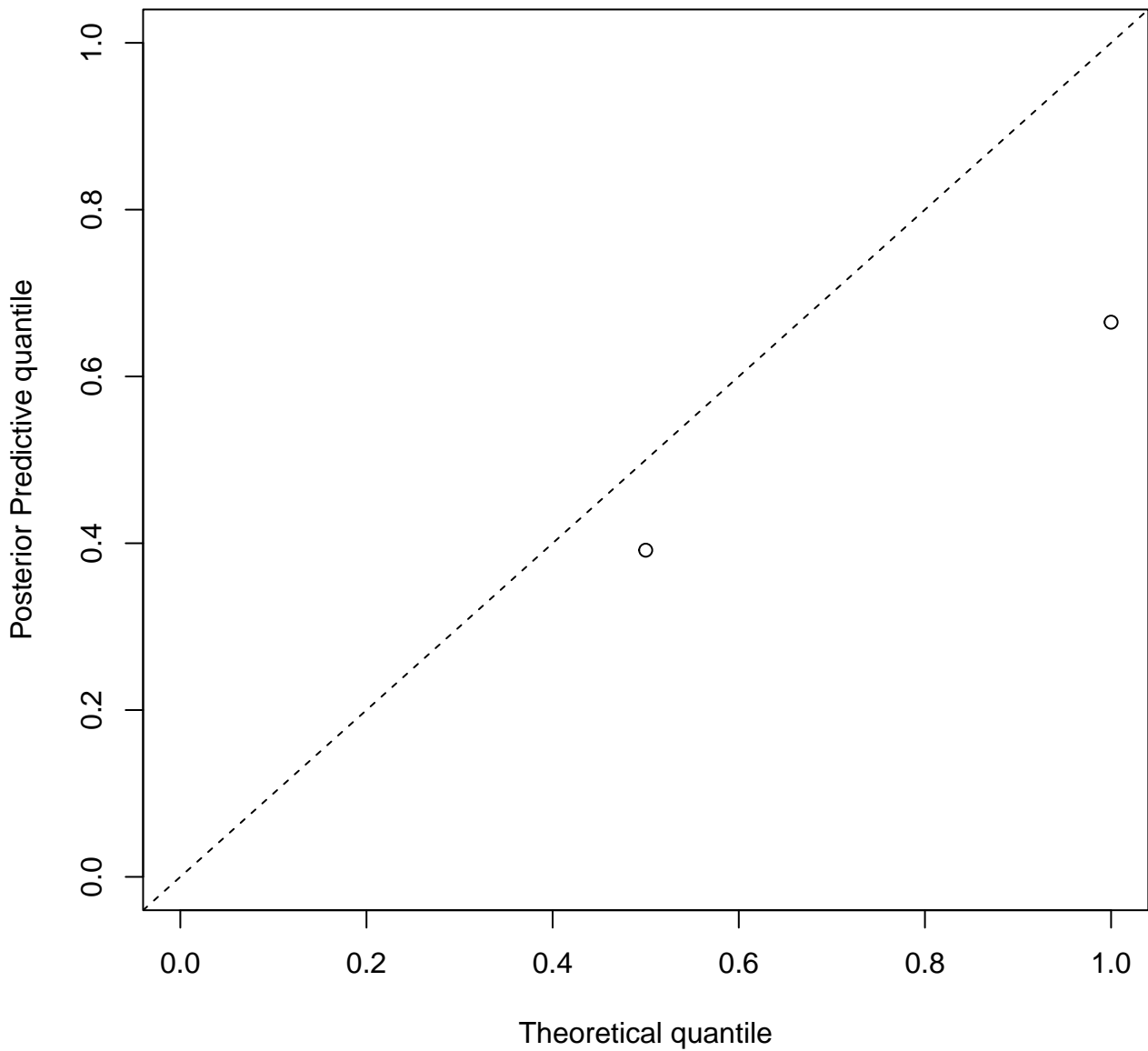




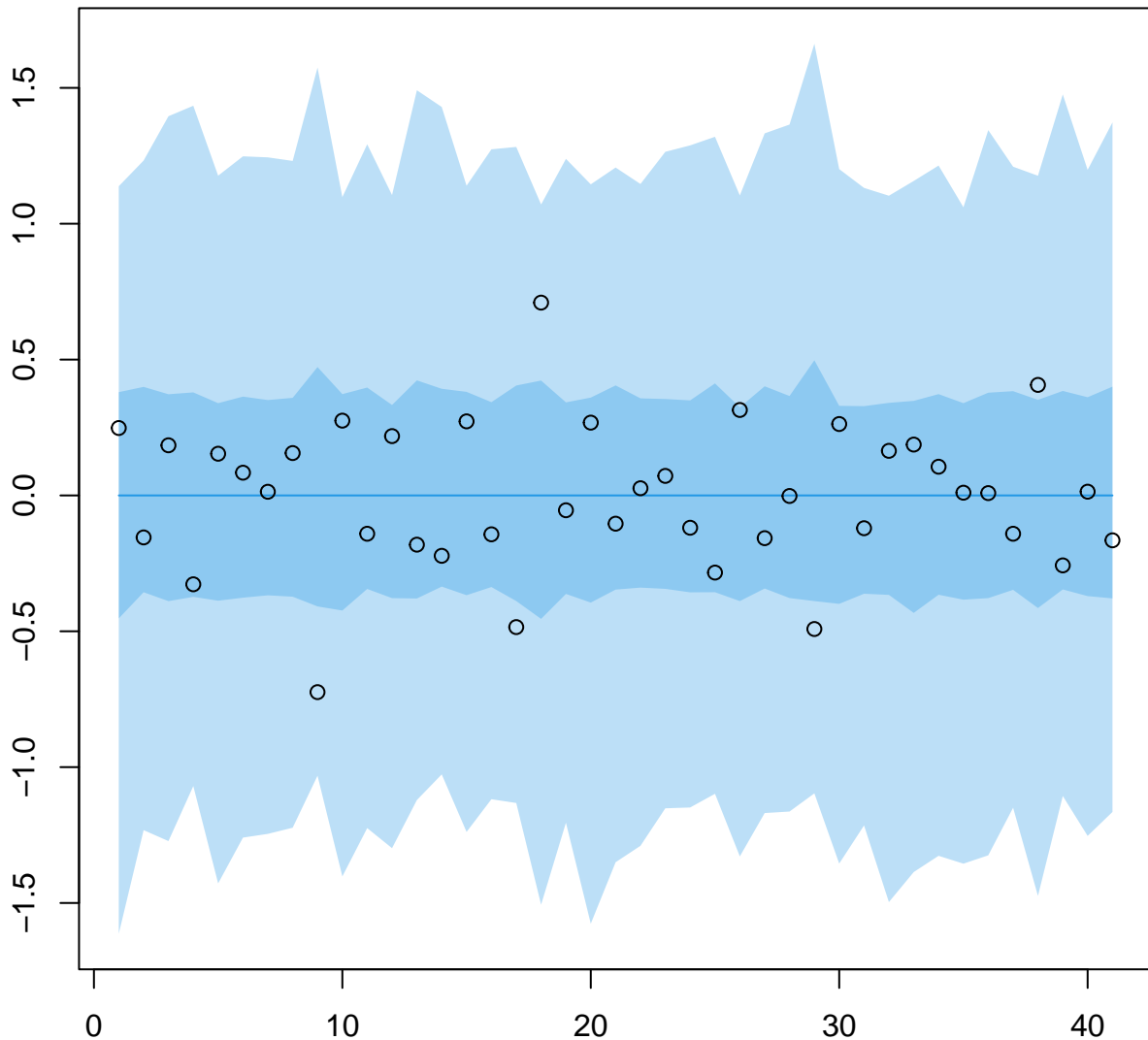


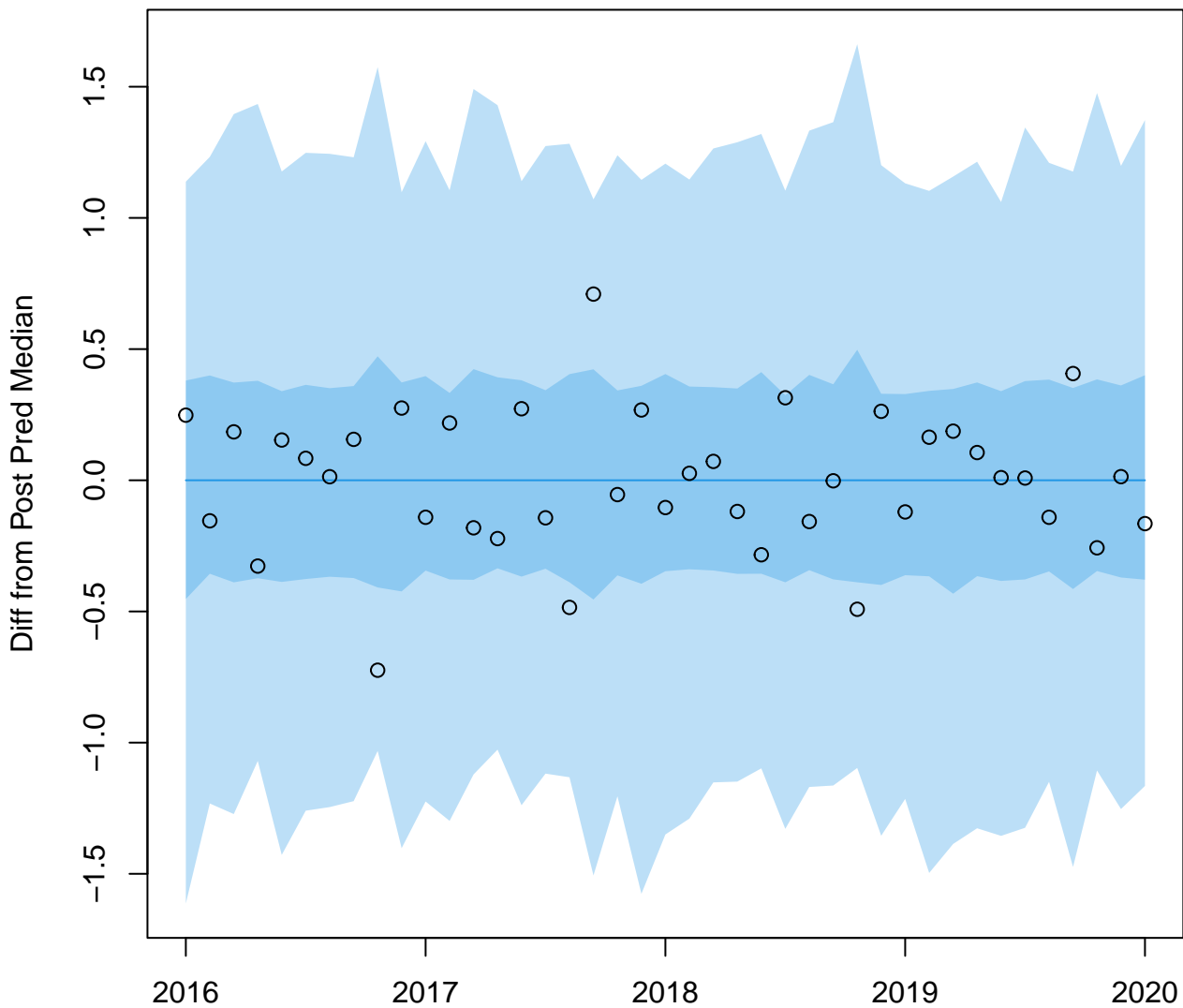




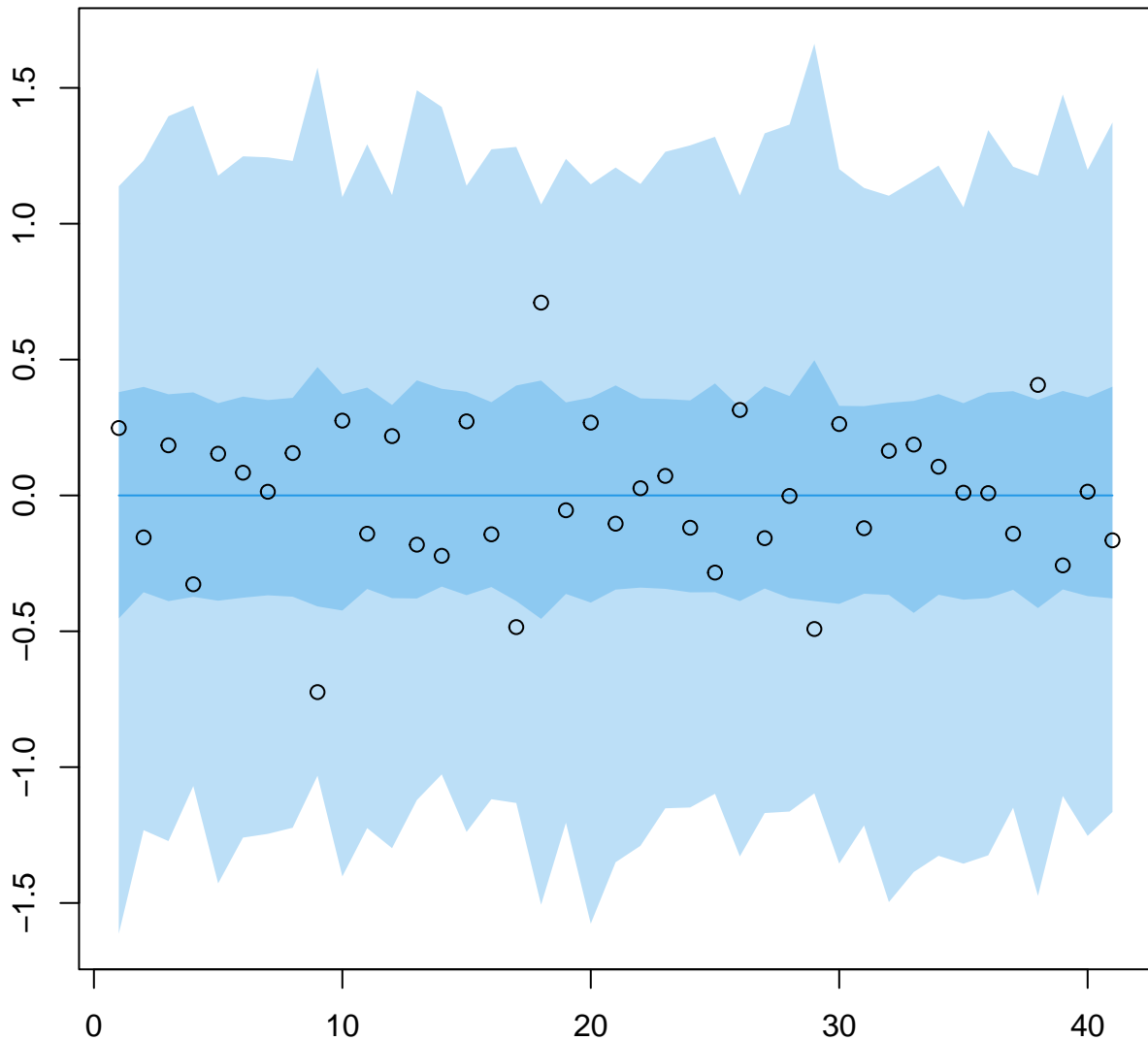


Diff from Post Pred Median

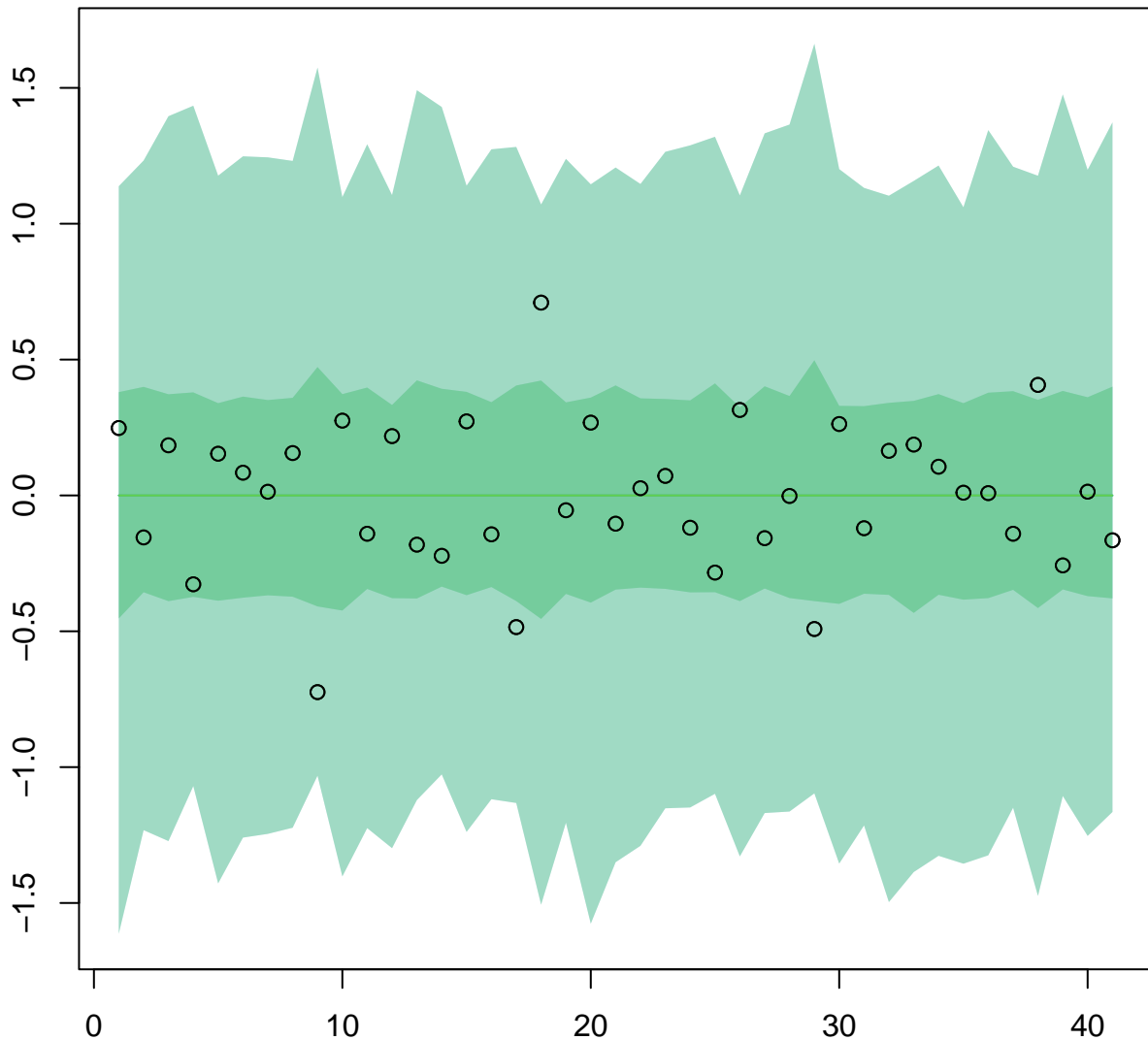




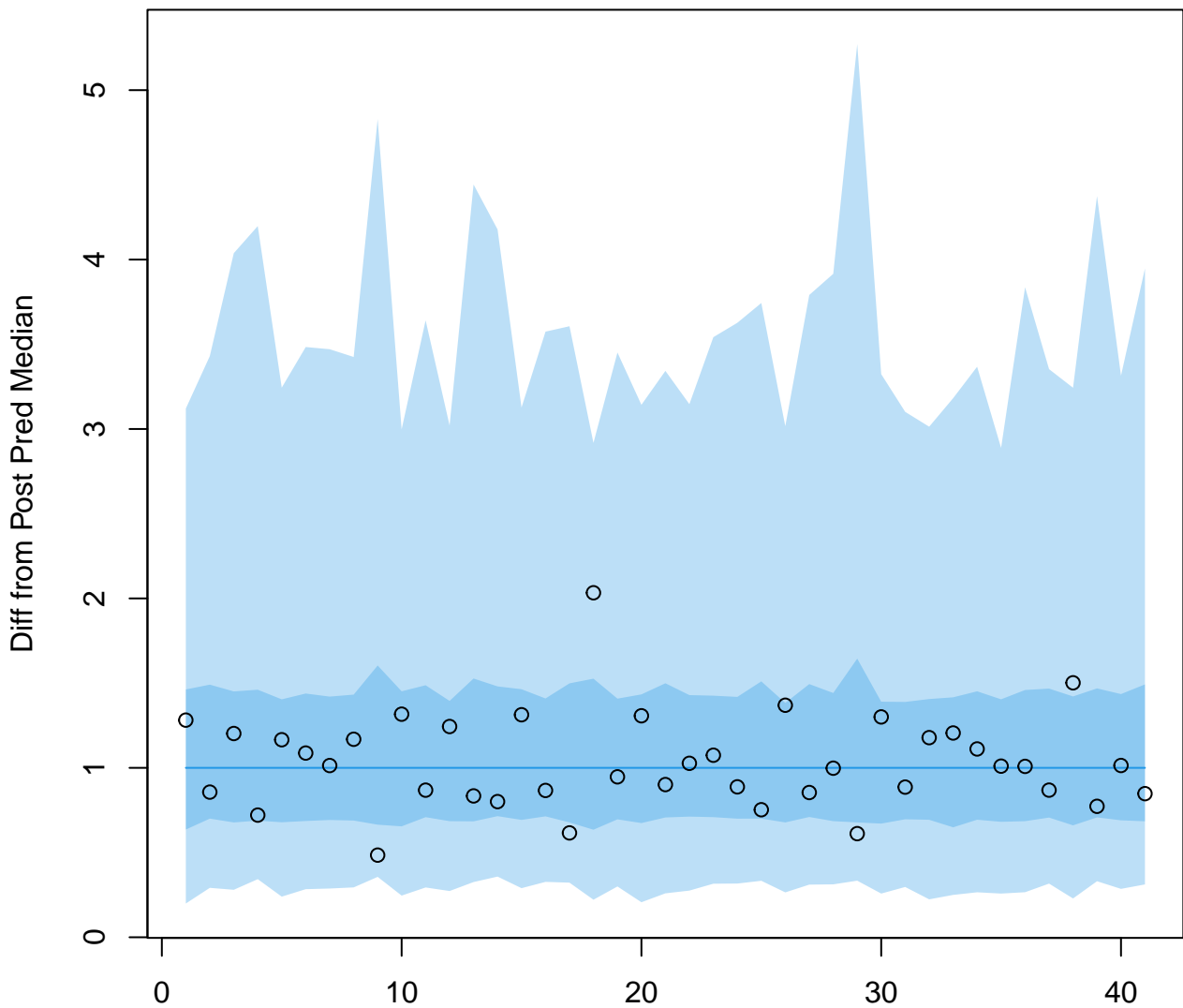
Diff from Post Pred Median



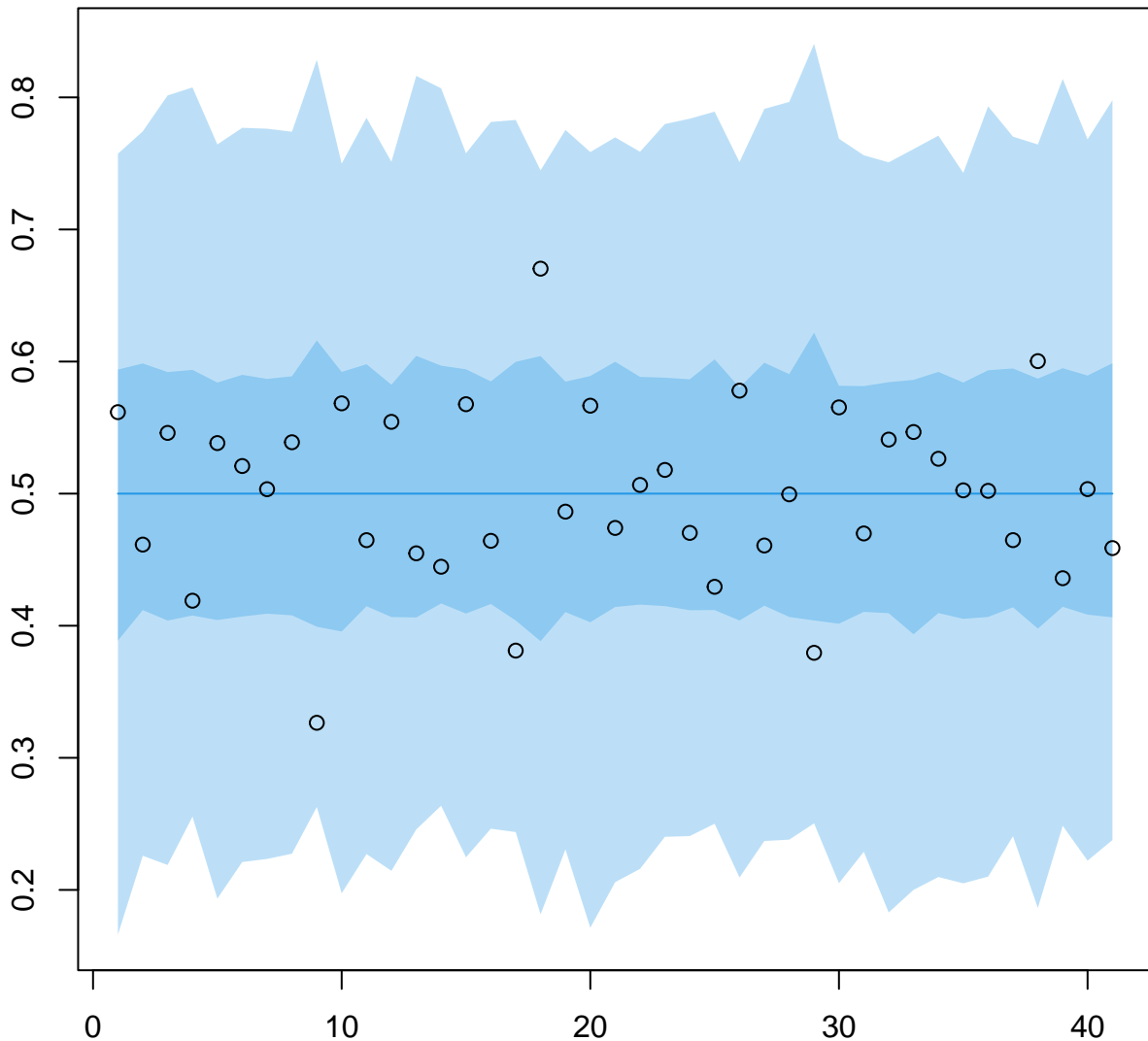
Diff from Post Pred Median



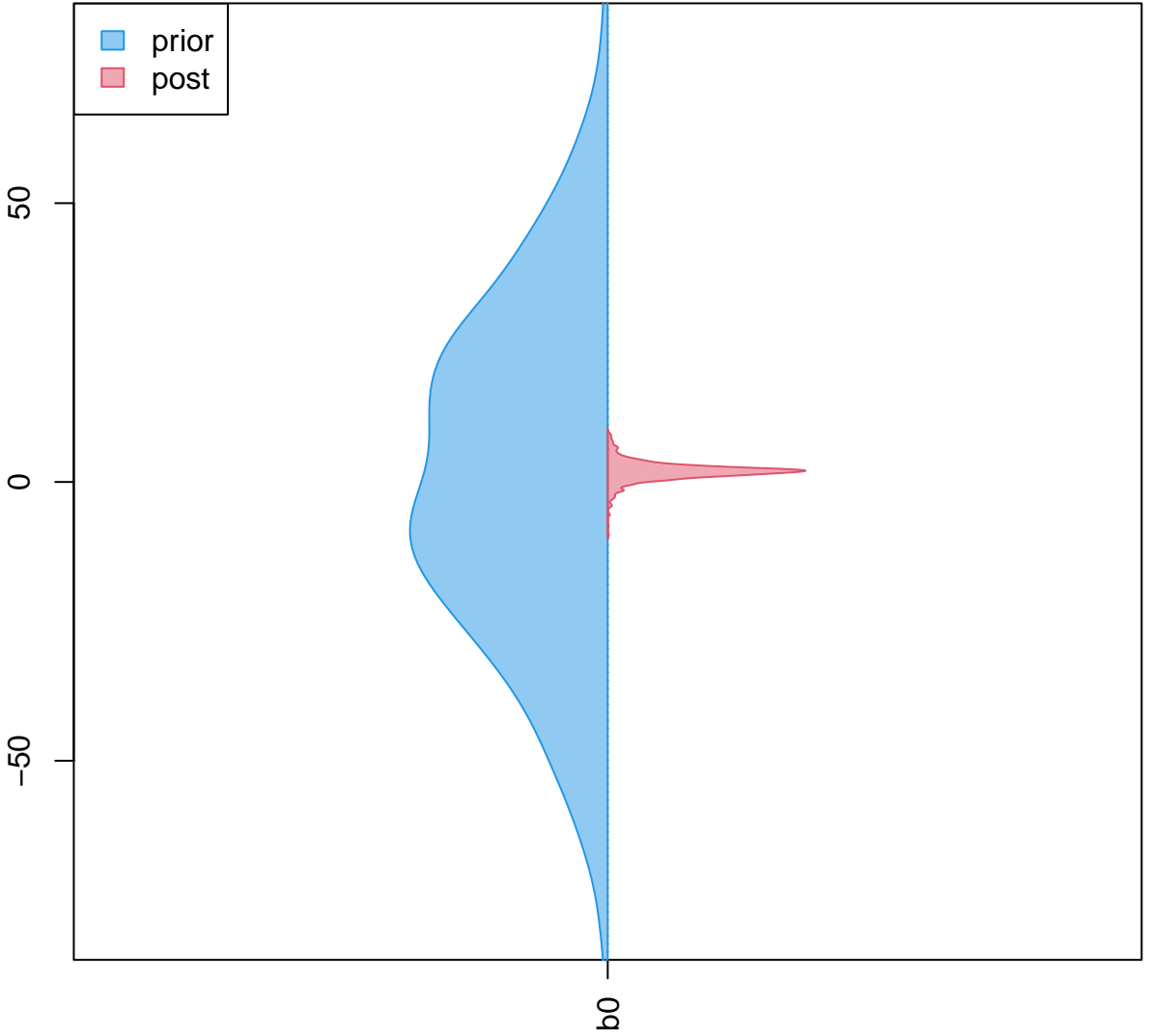




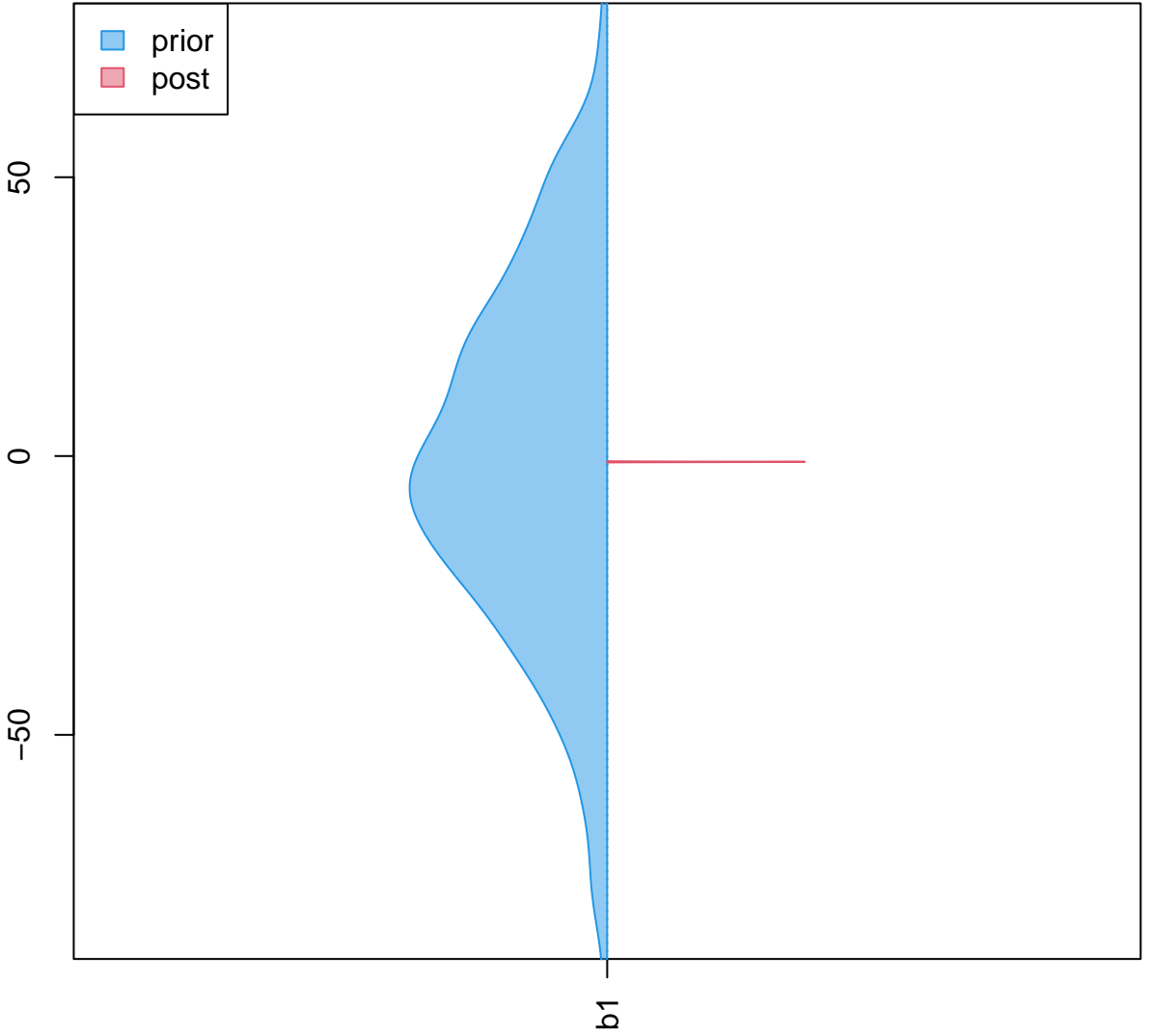
Diff from Post Pred Median



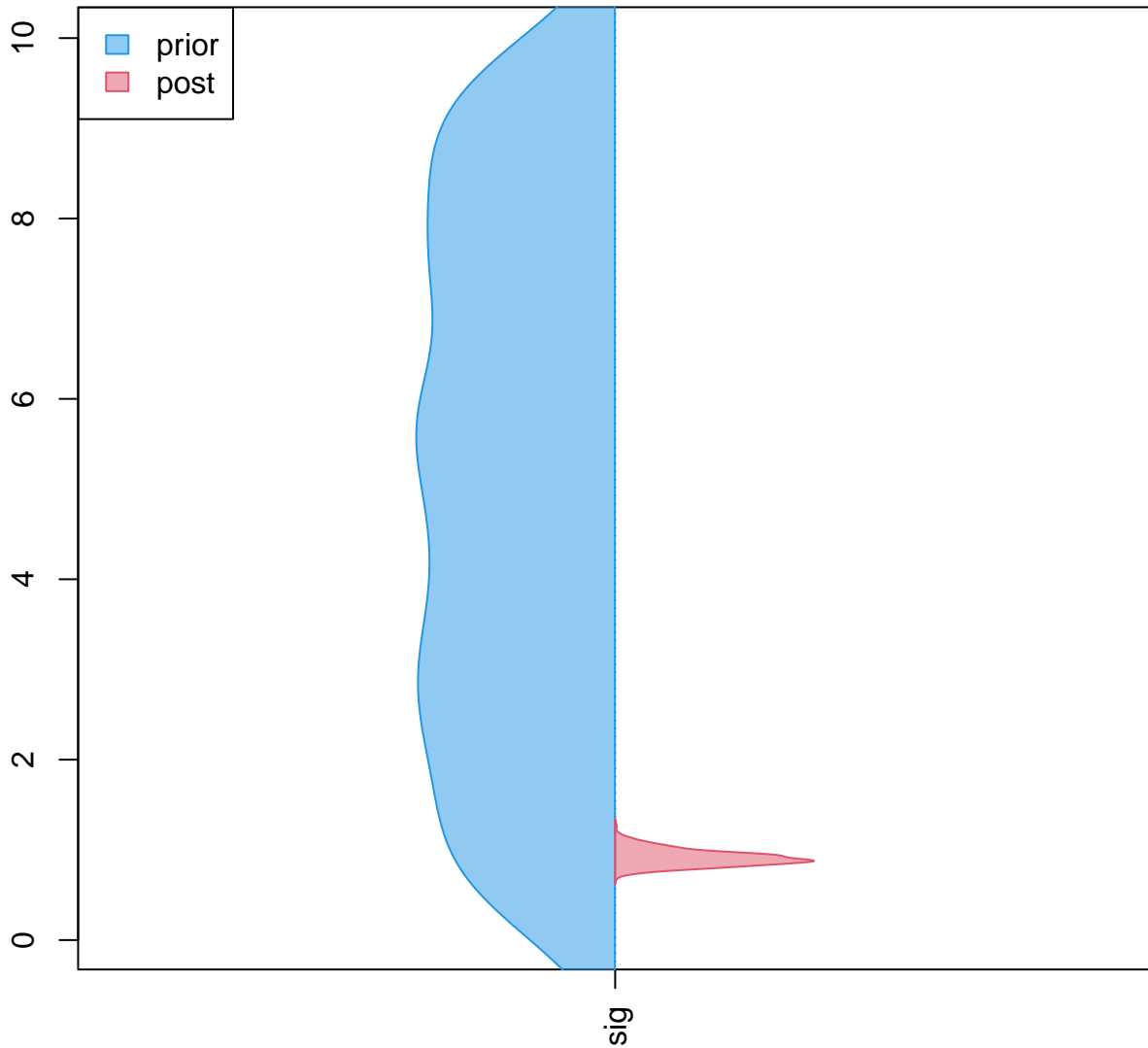
**b0**



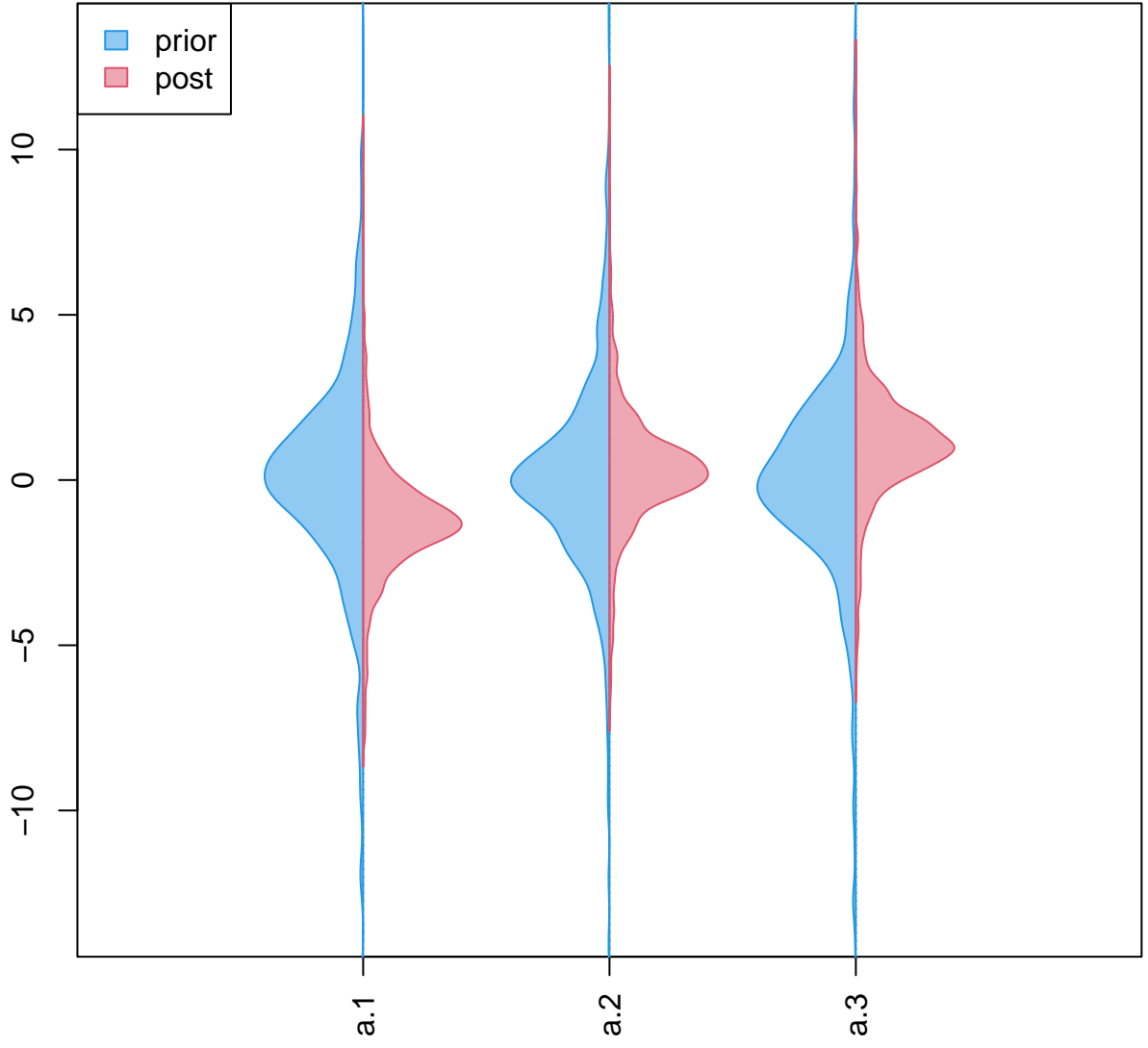
**b1**



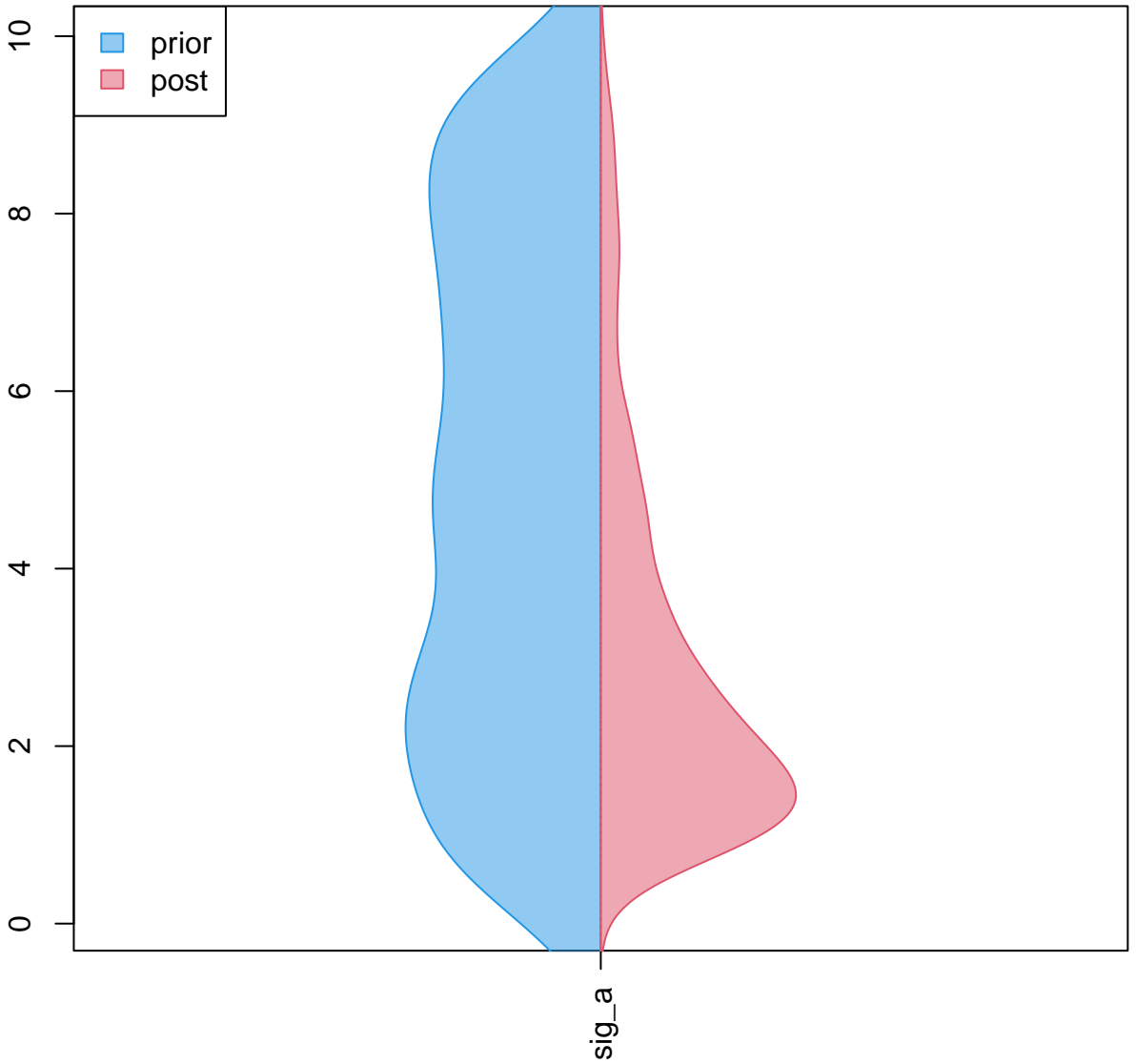
sig

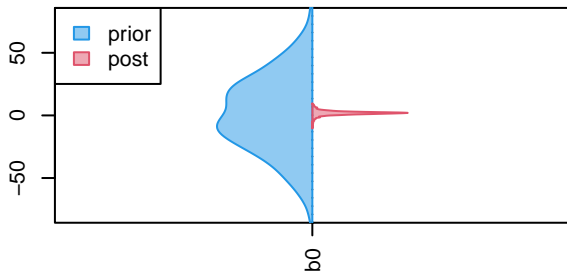
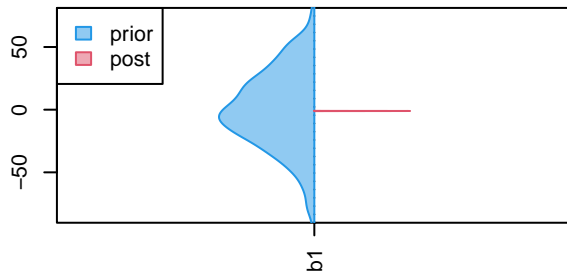
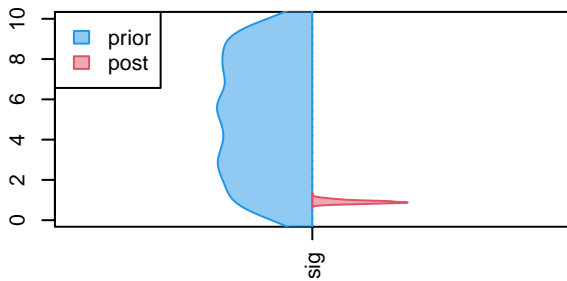
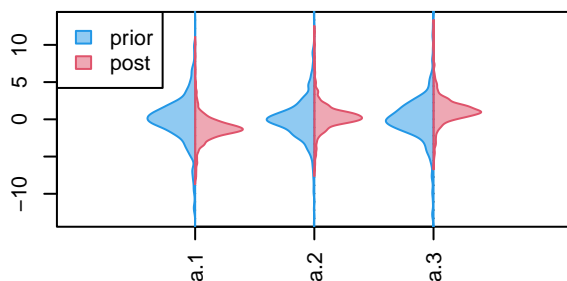
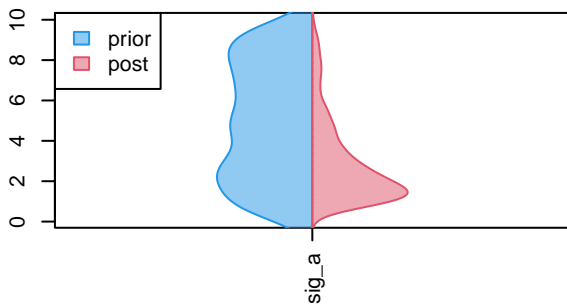


**a**



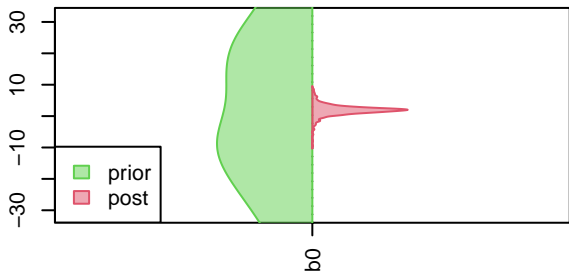
sig\_a



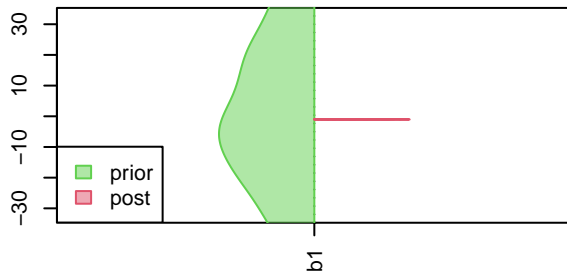
**b0****b1****sig****a****sig\_a**



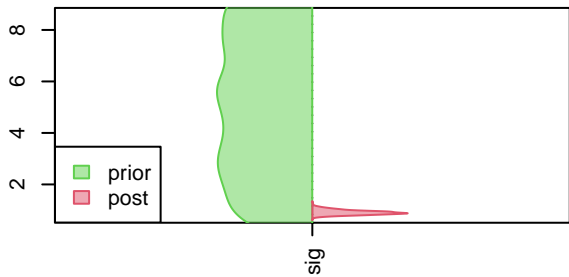
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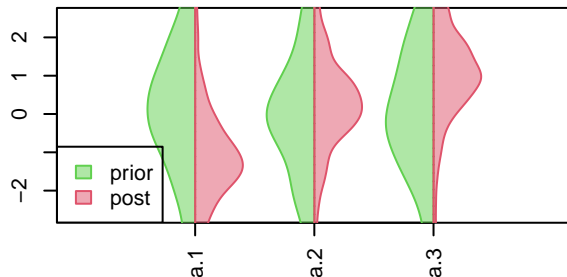
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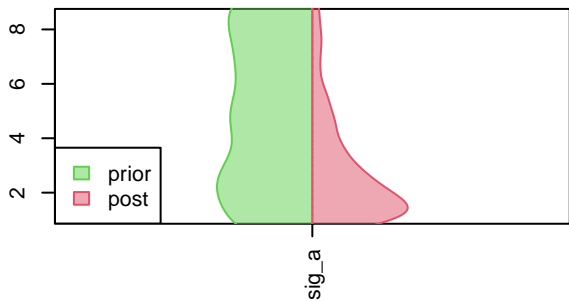
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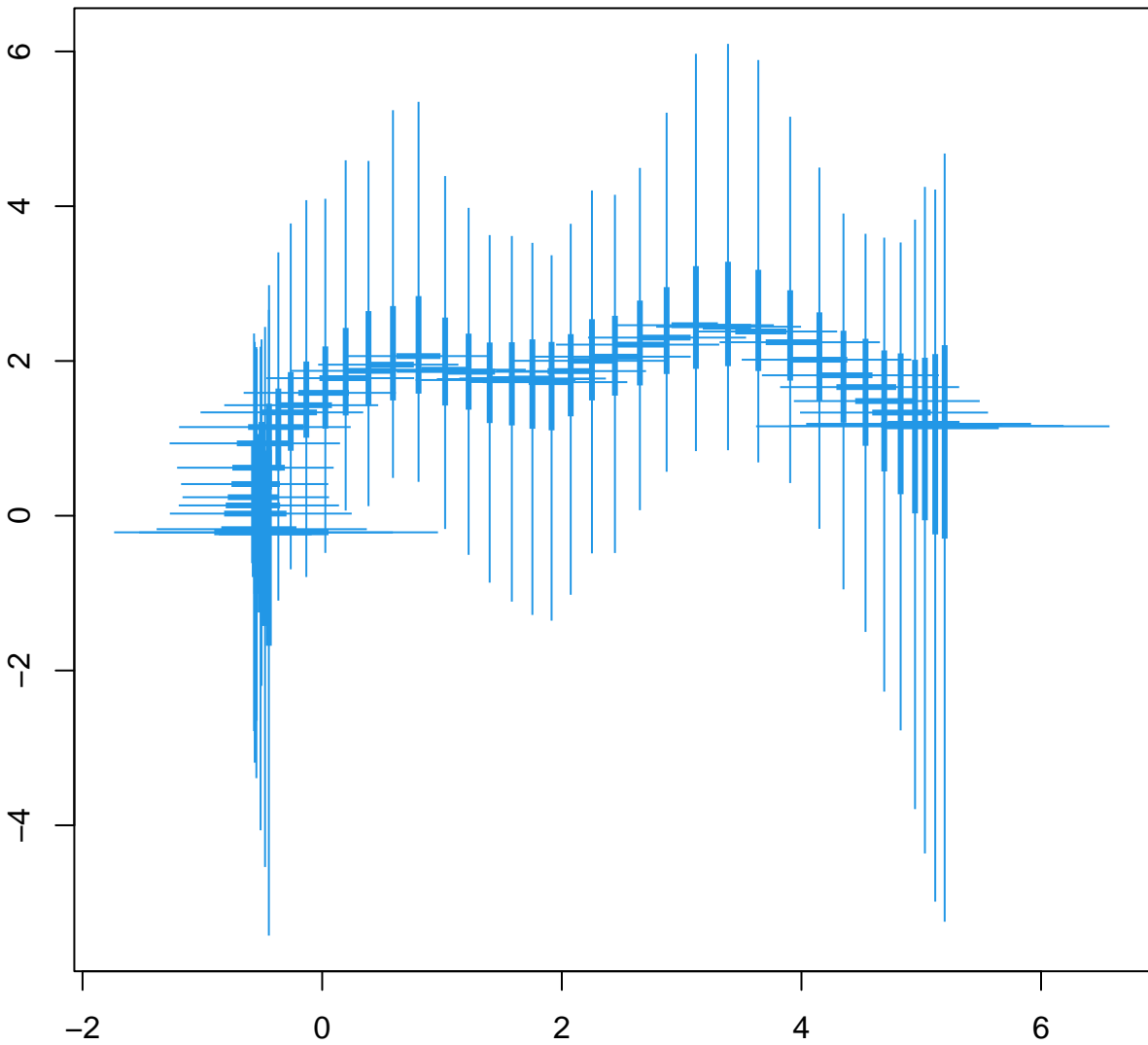


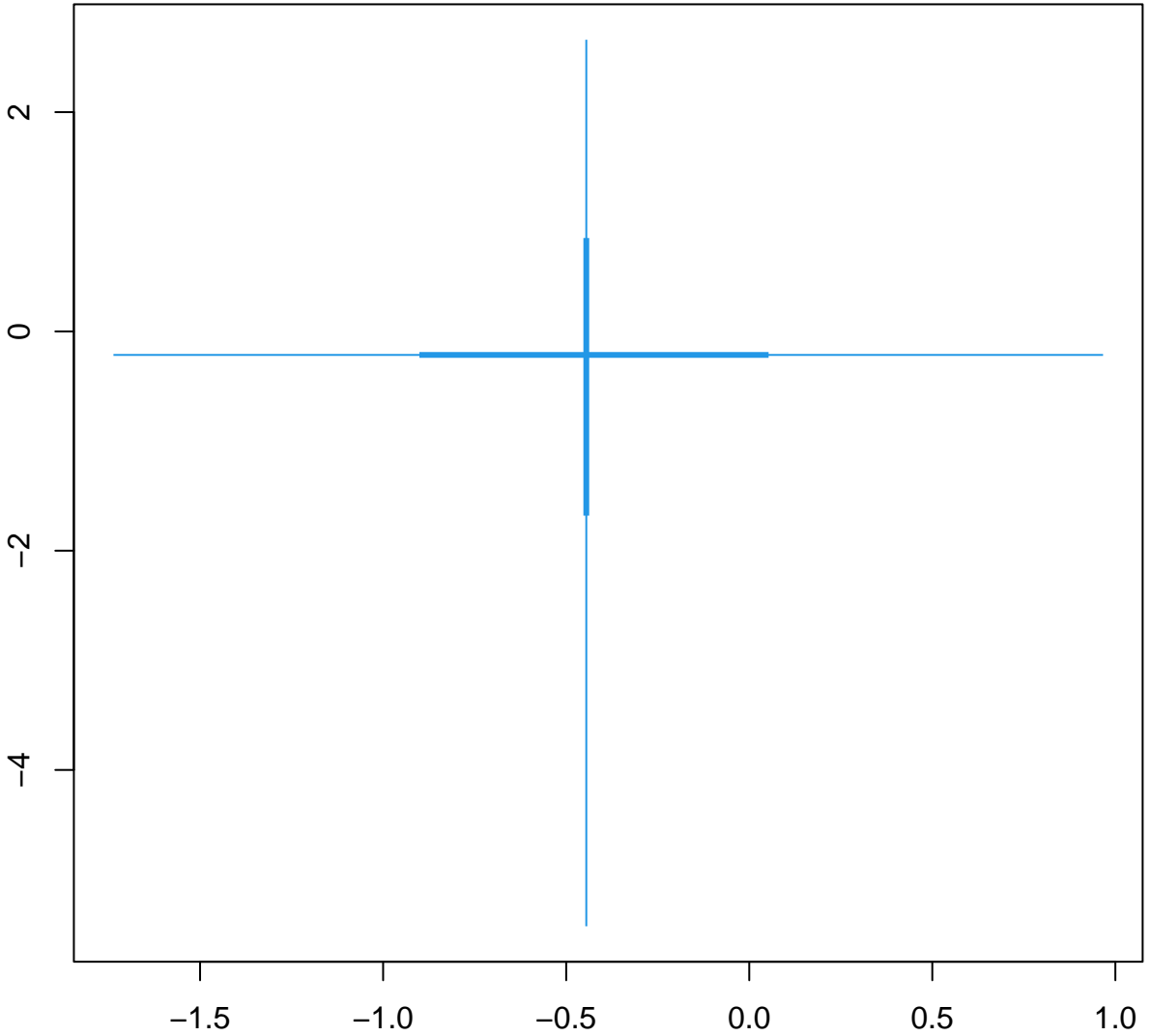
**a**

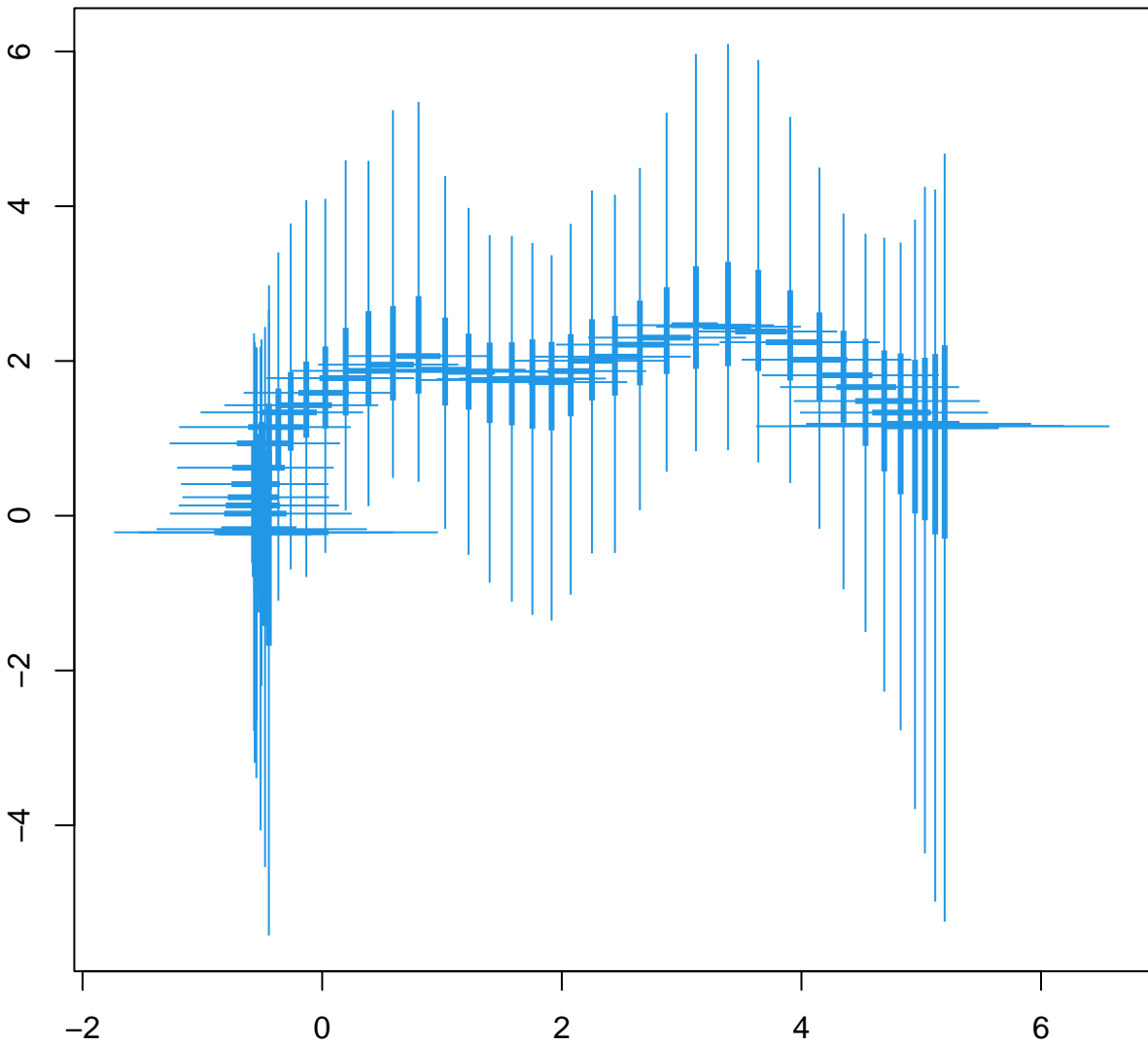


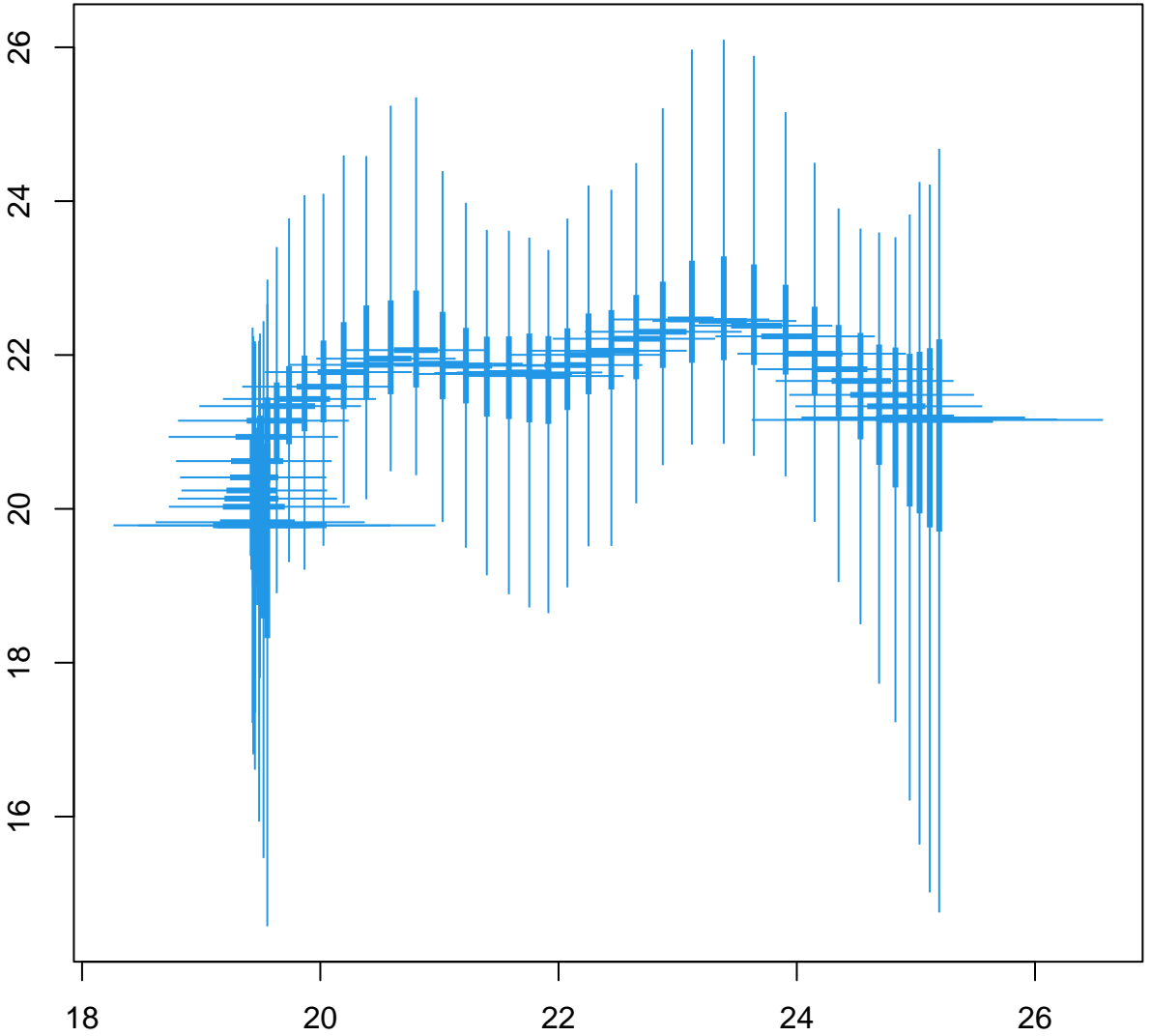
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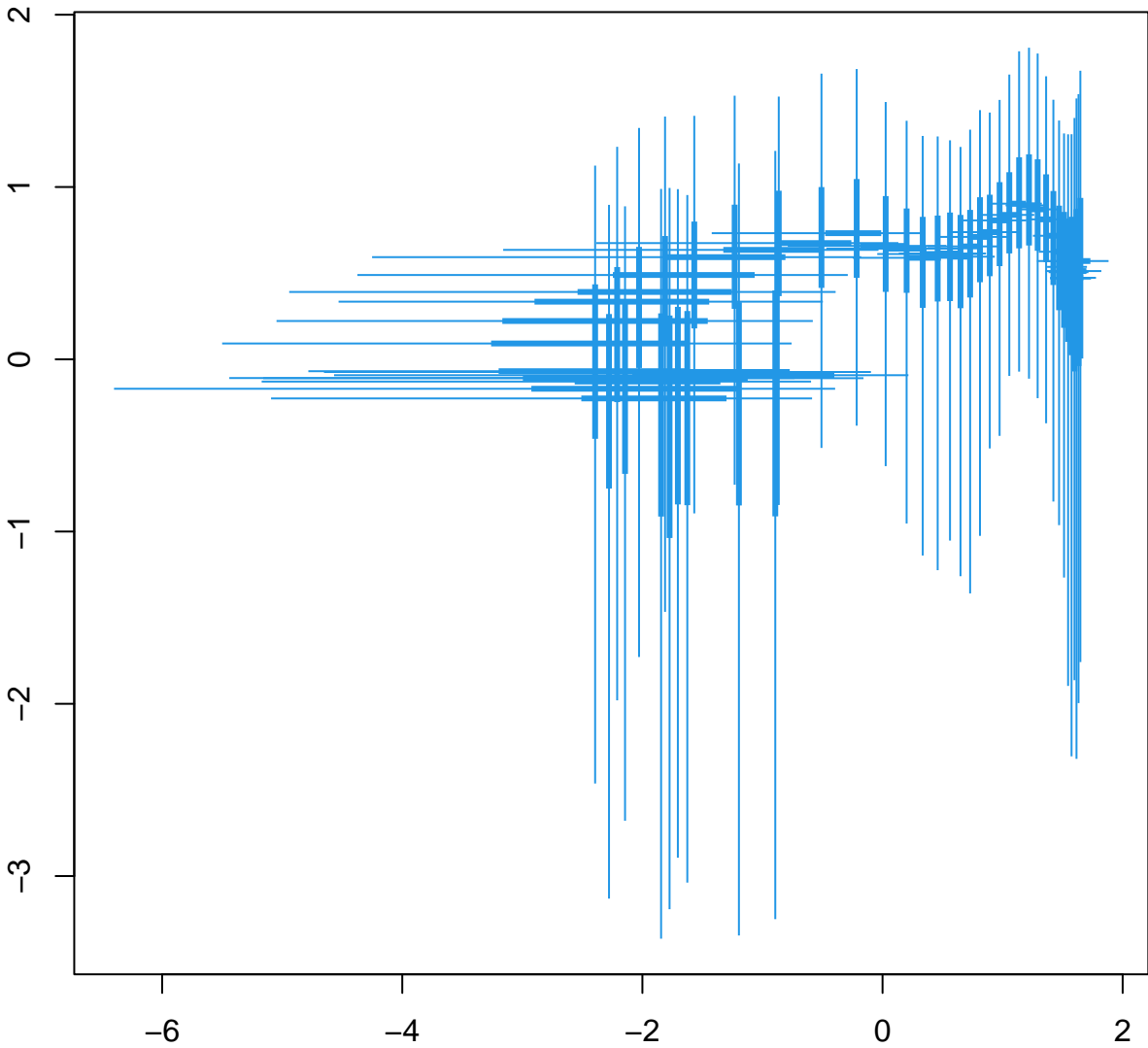


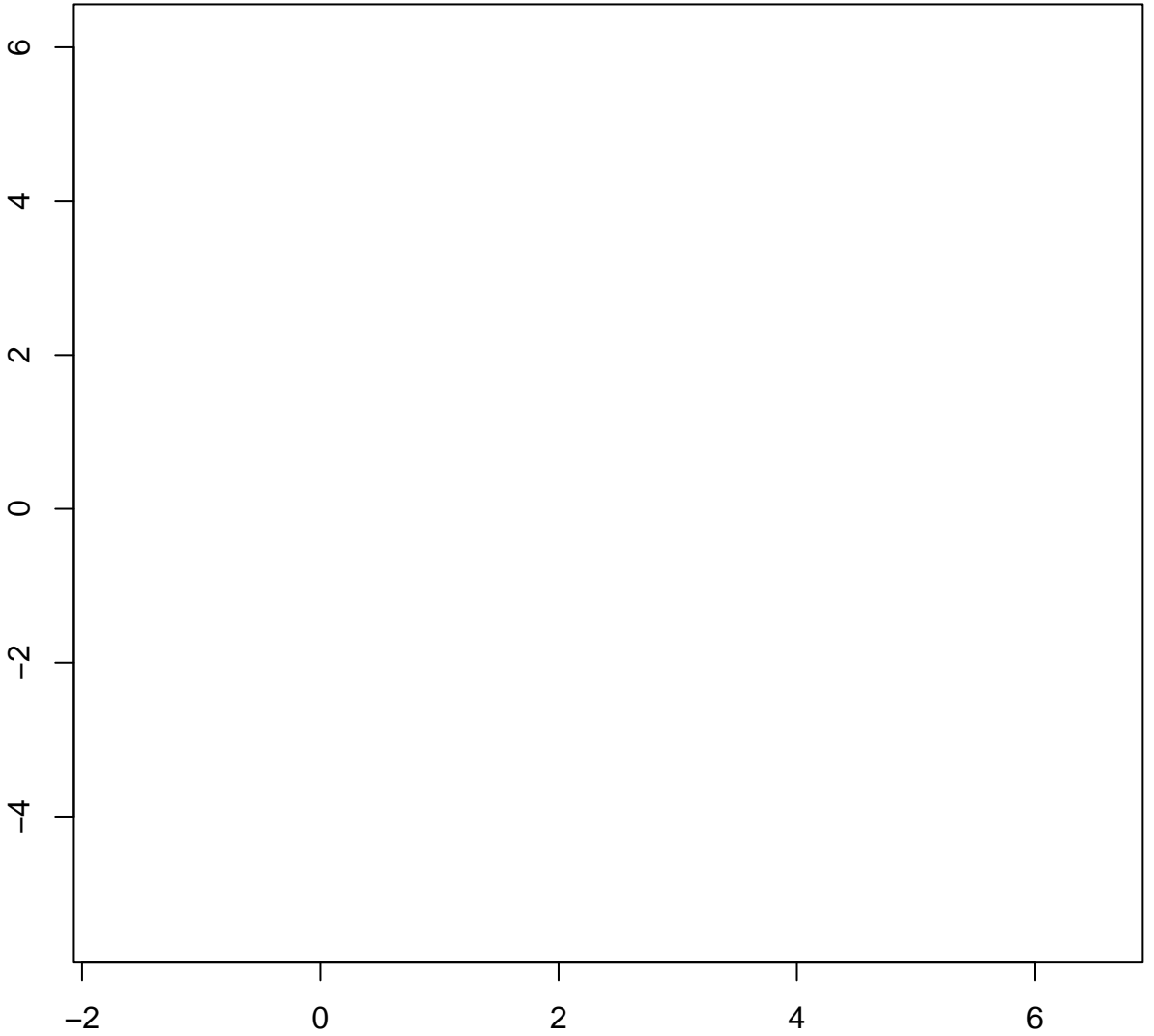


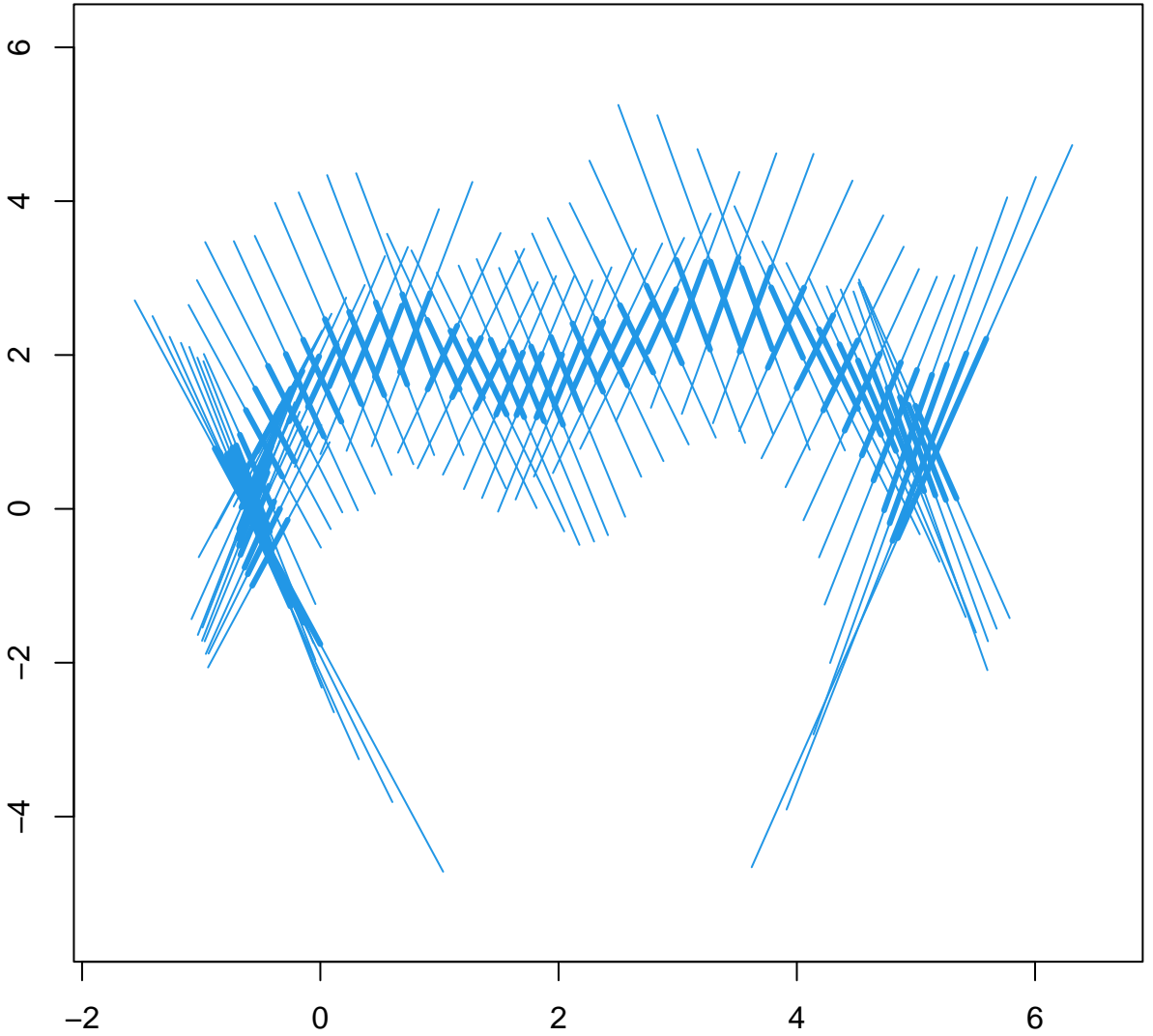




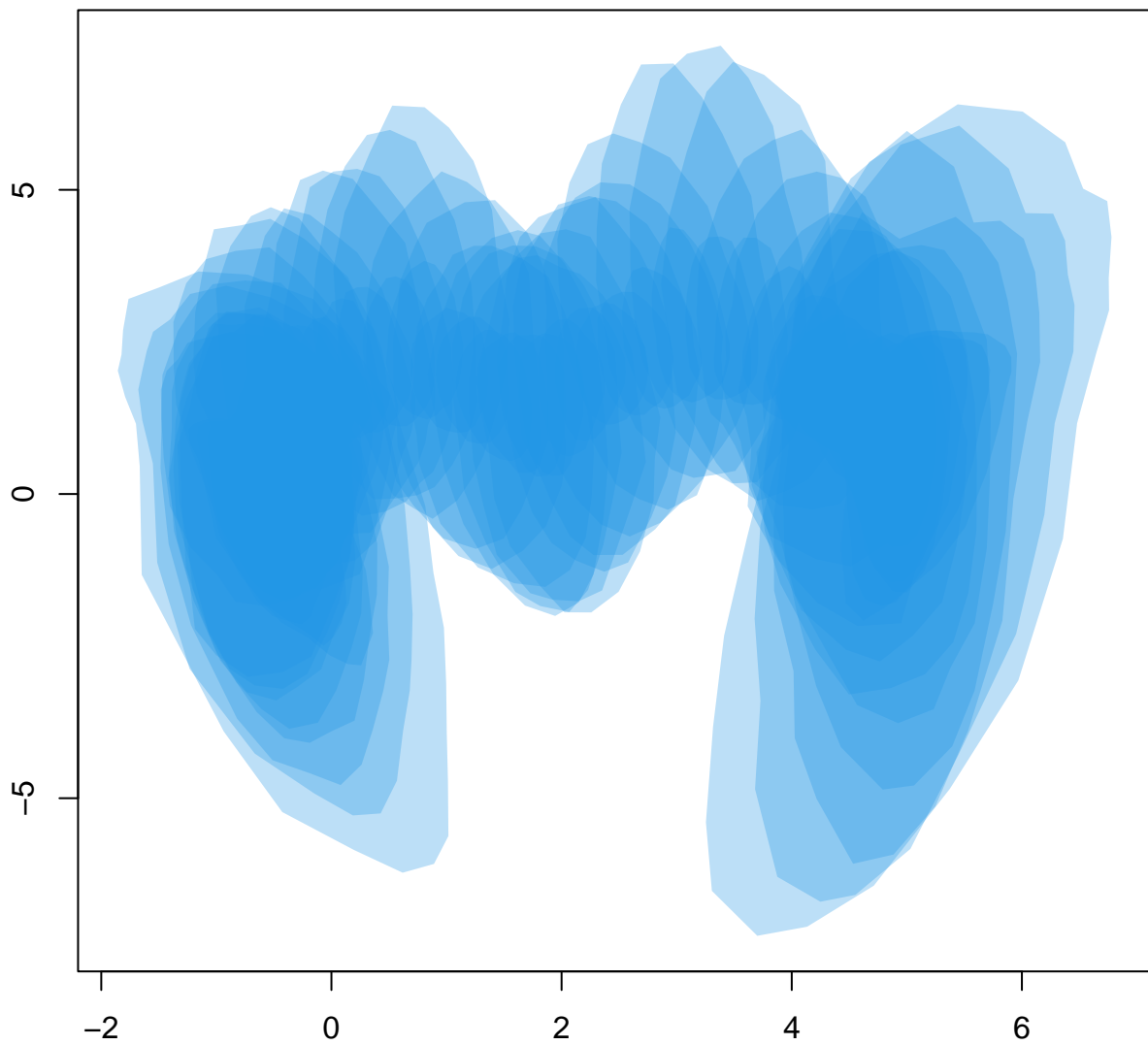


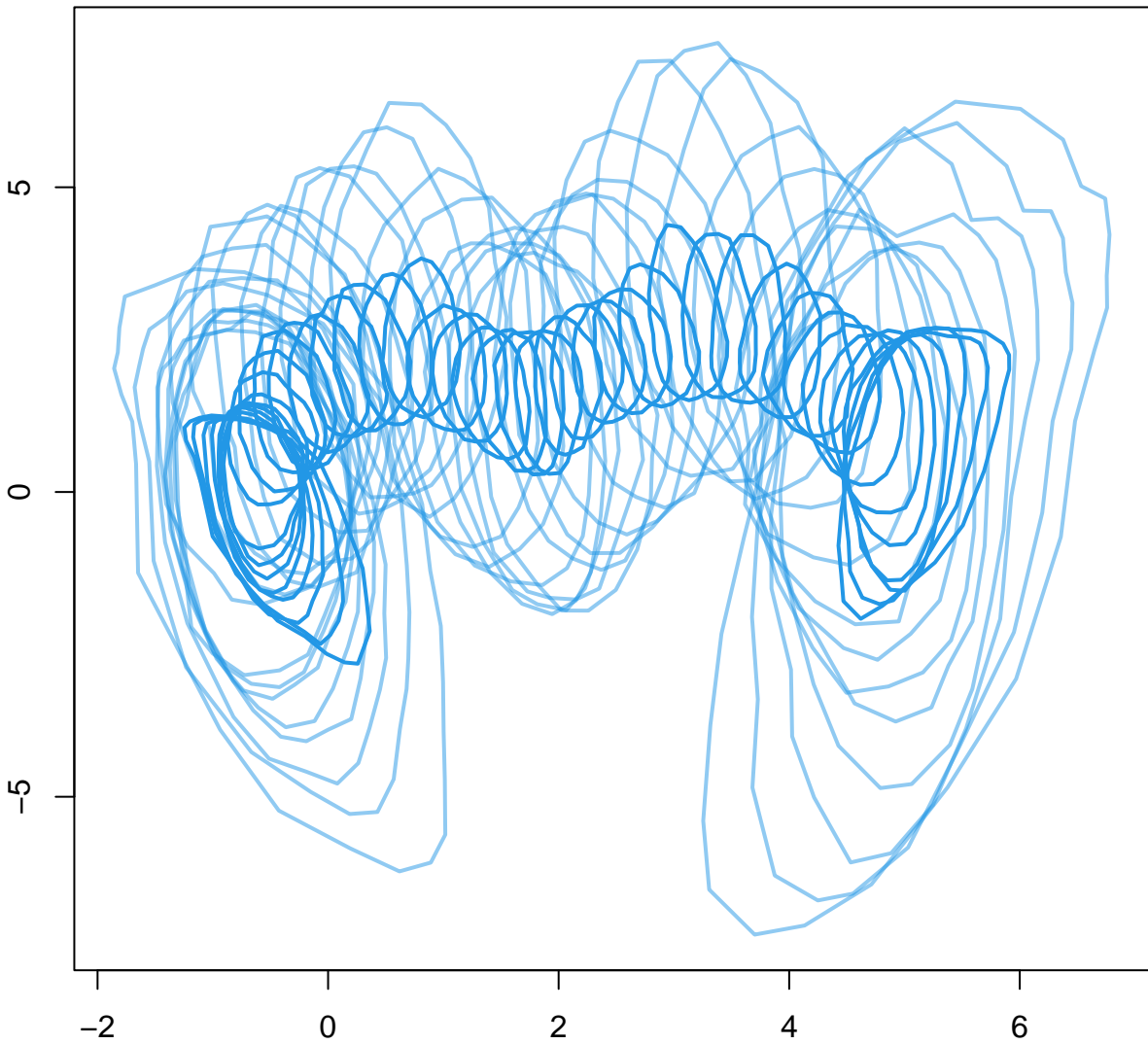


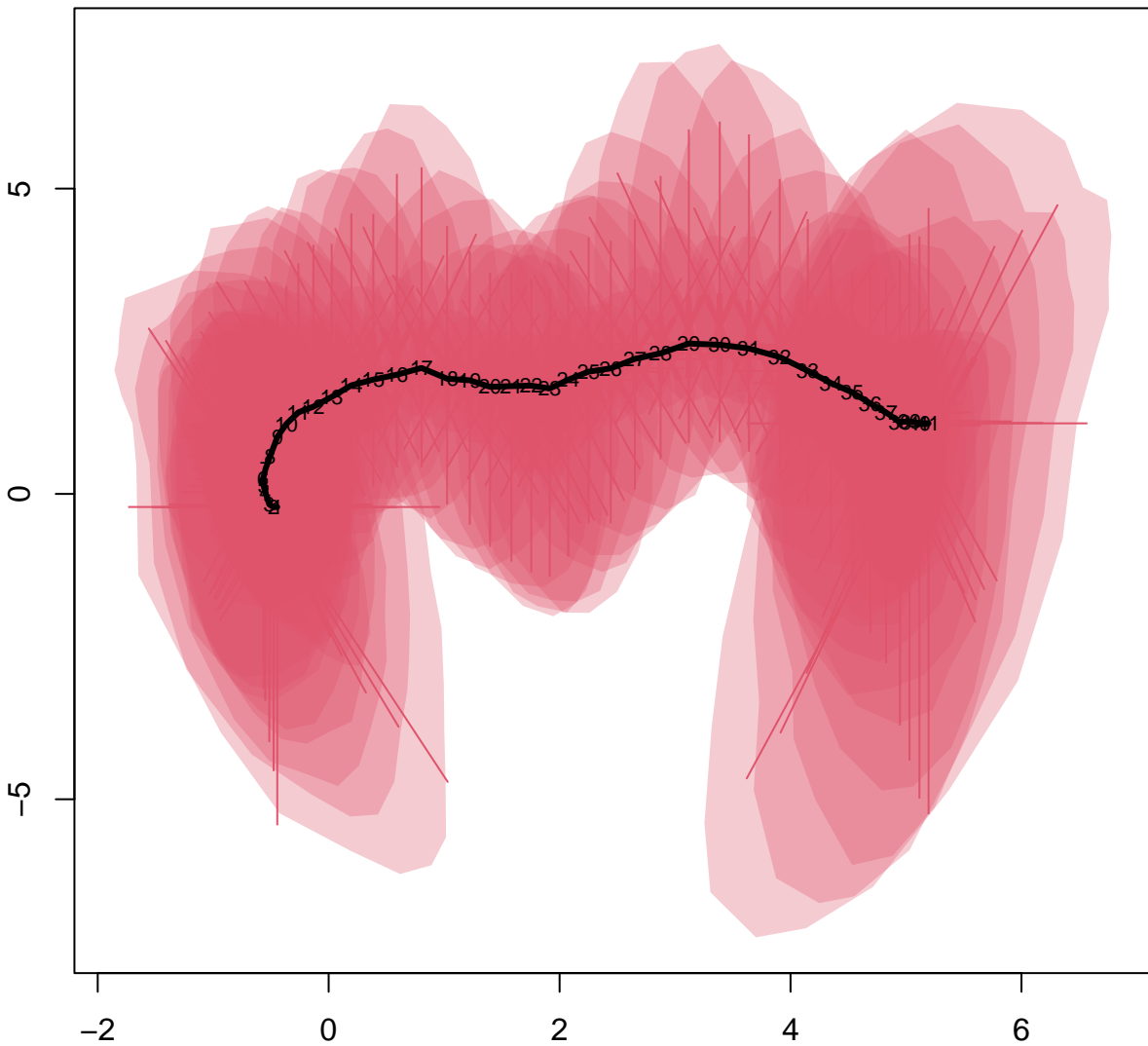


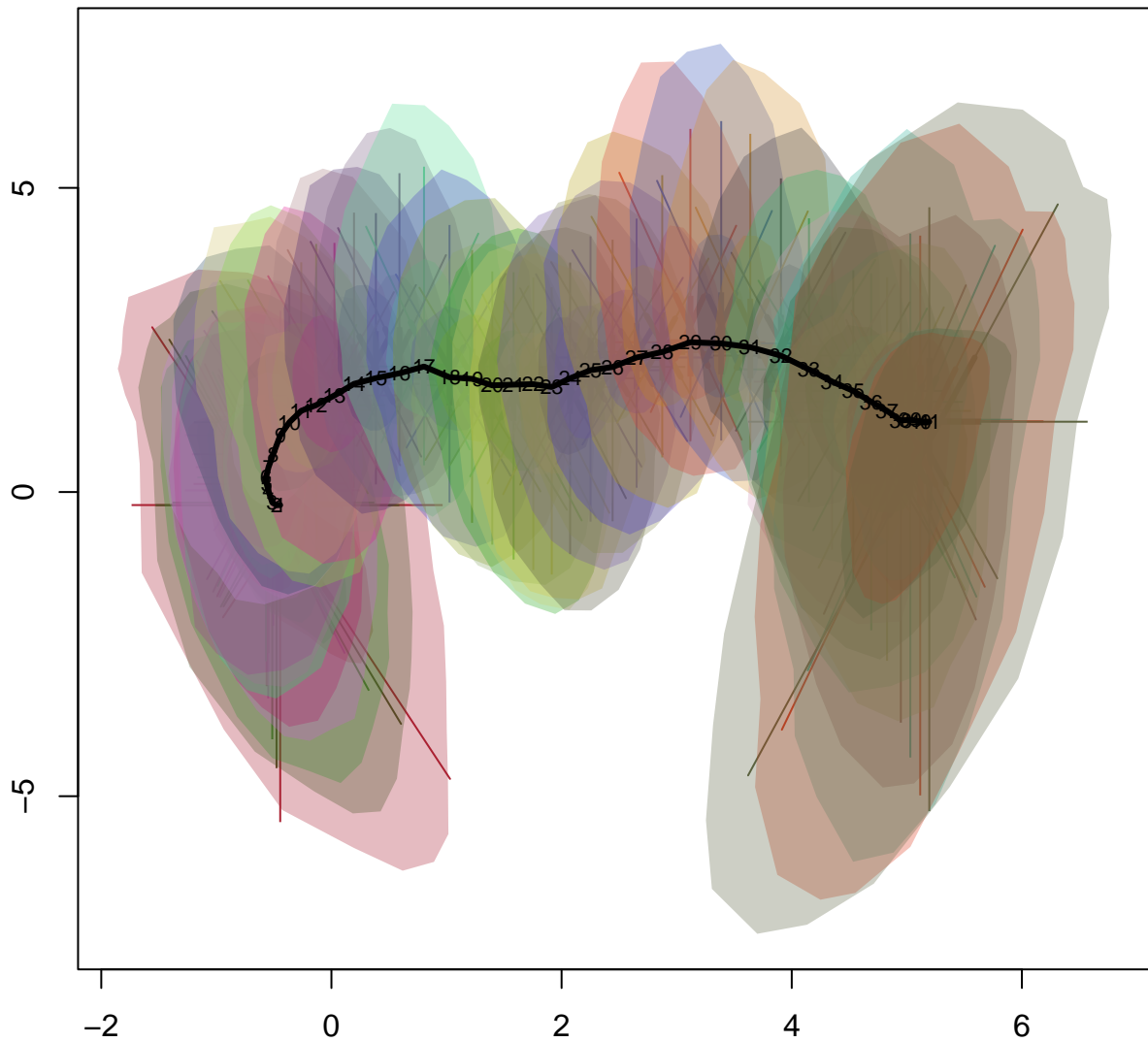


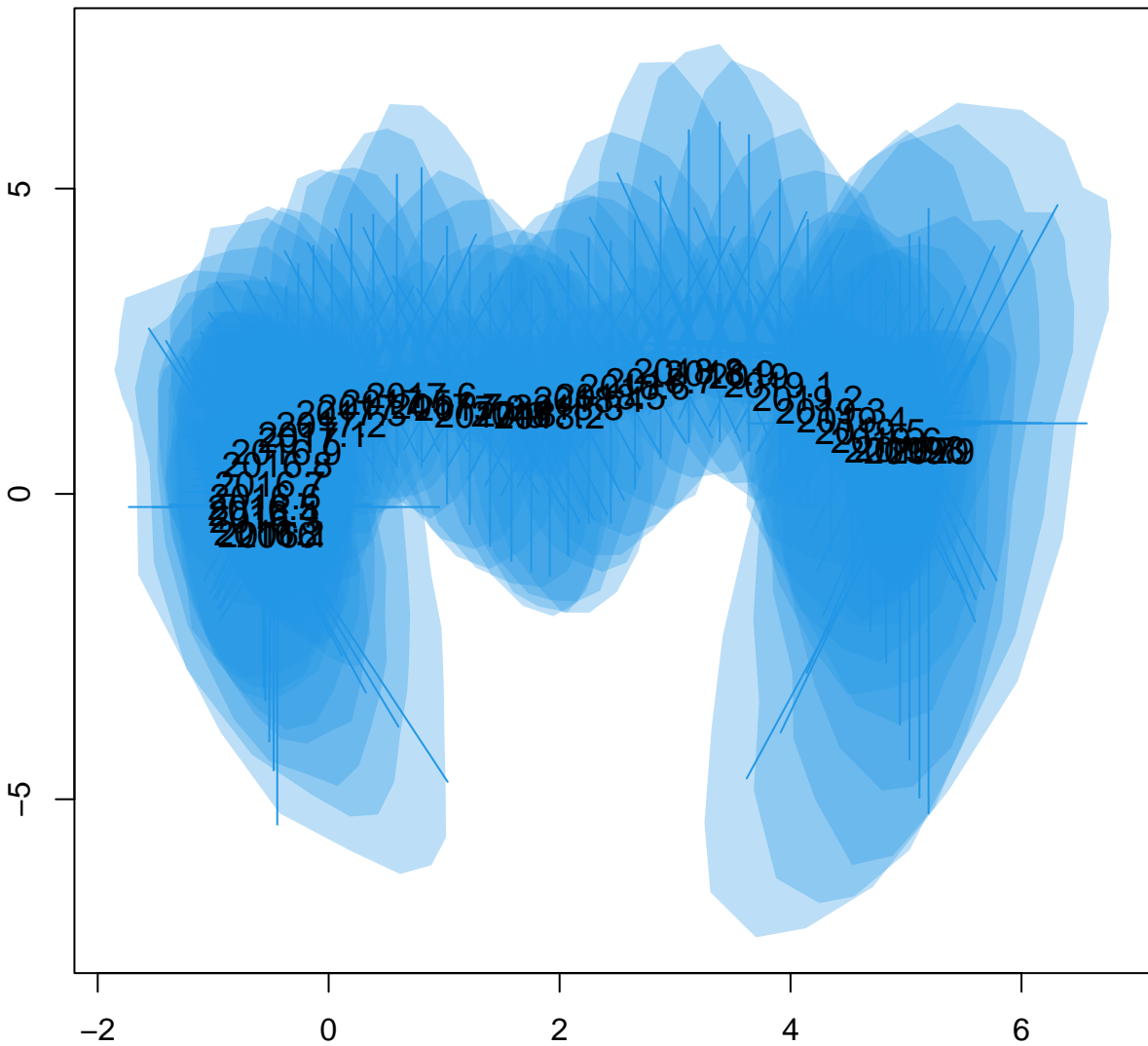


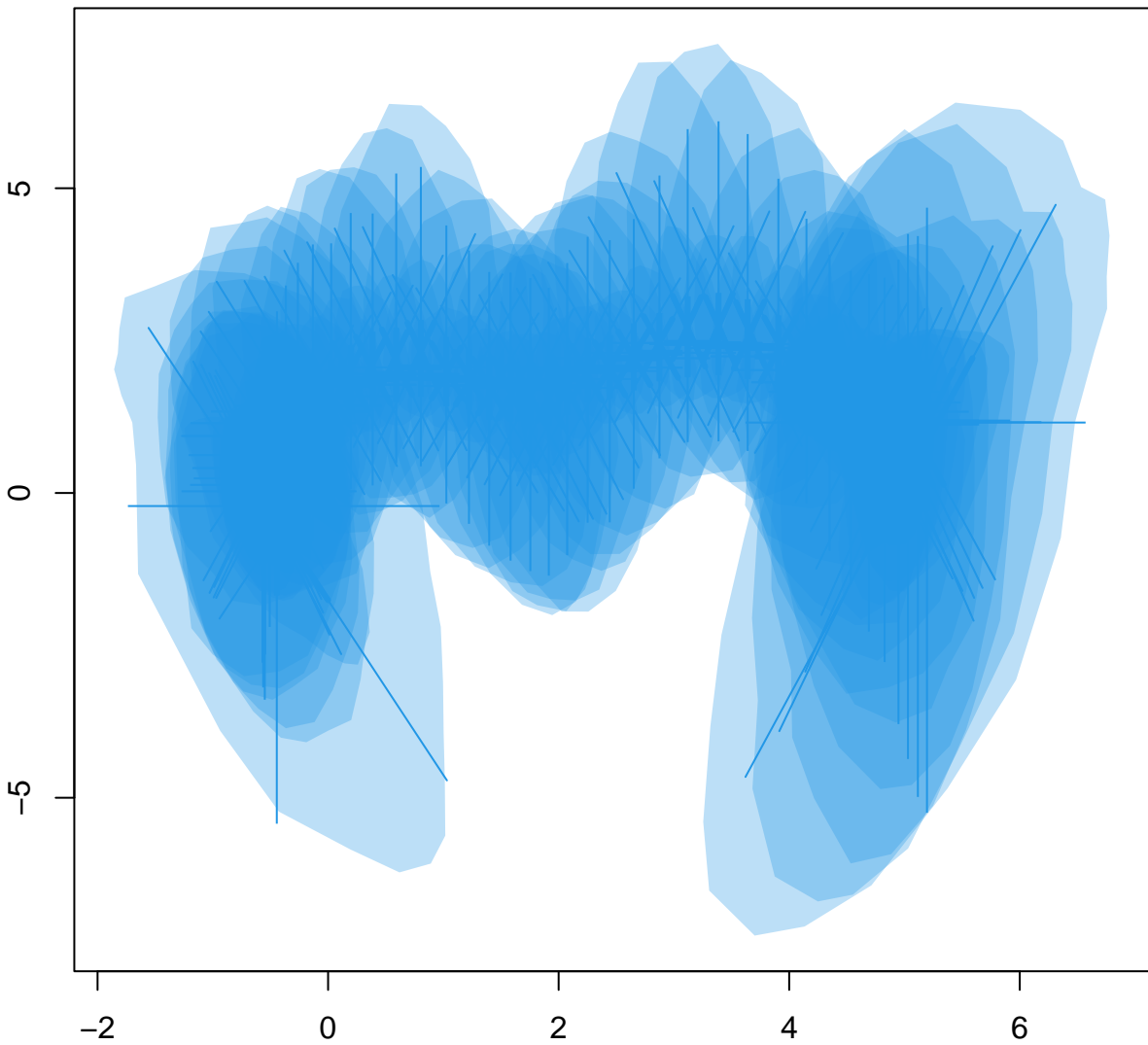


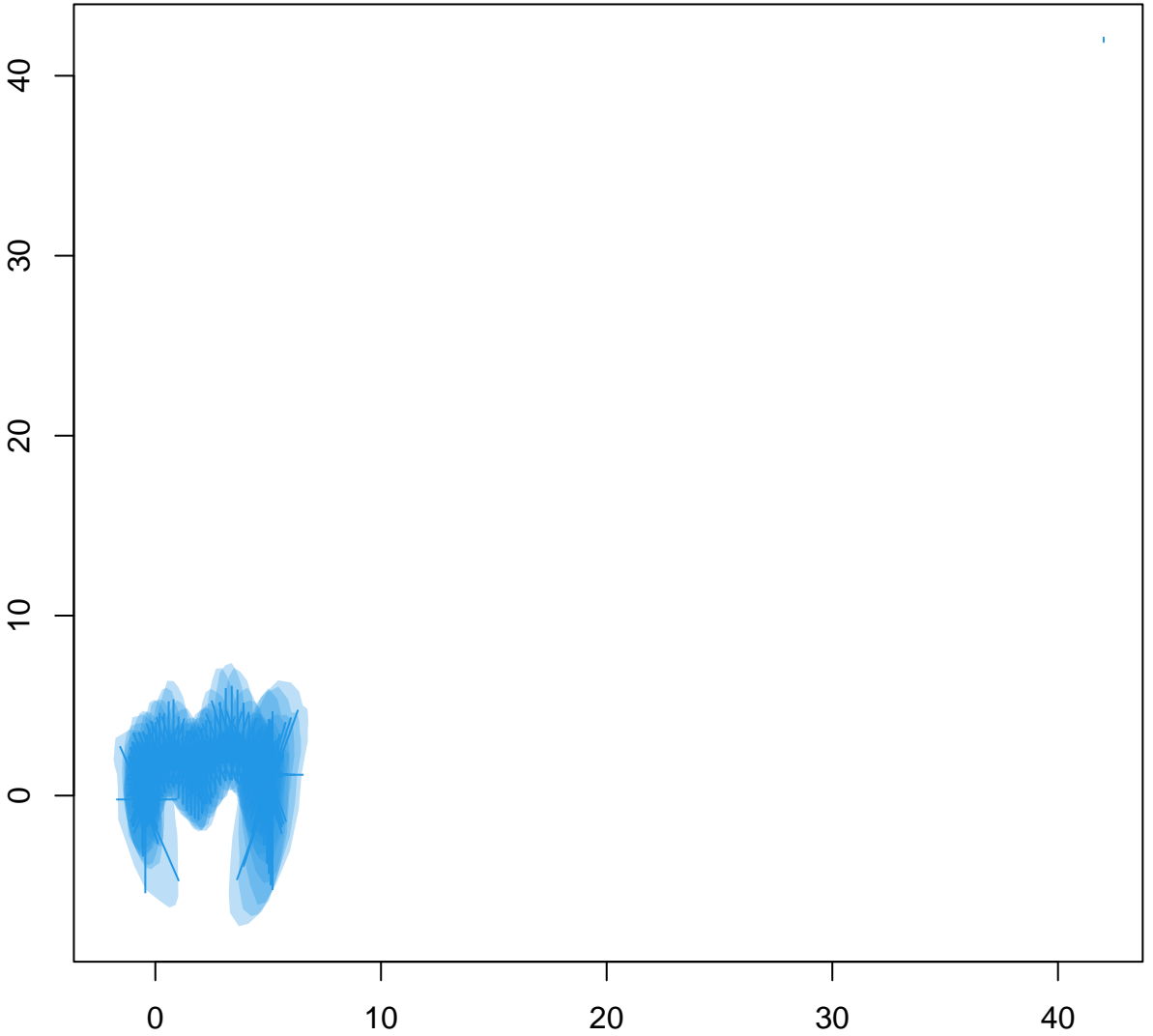


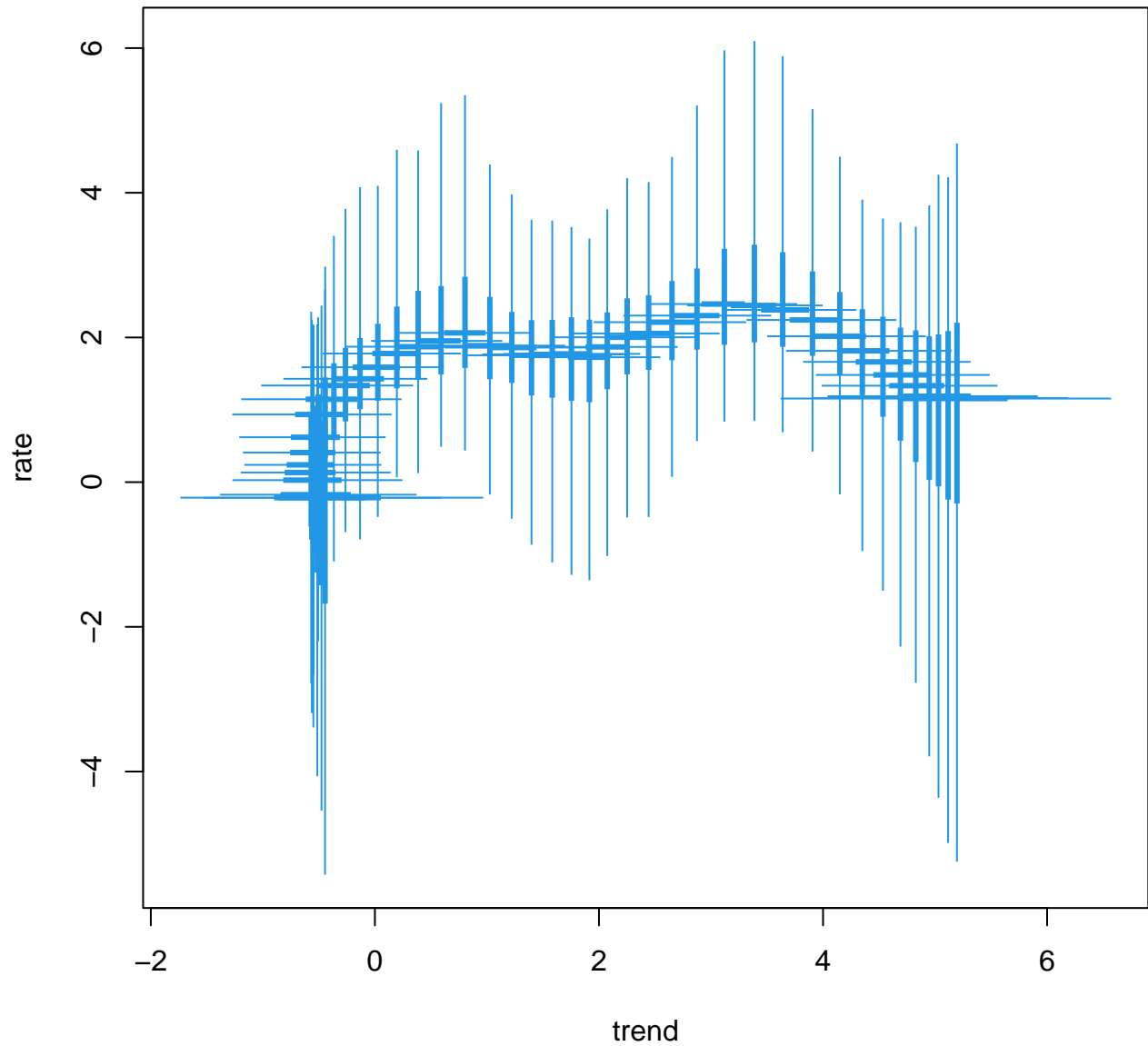




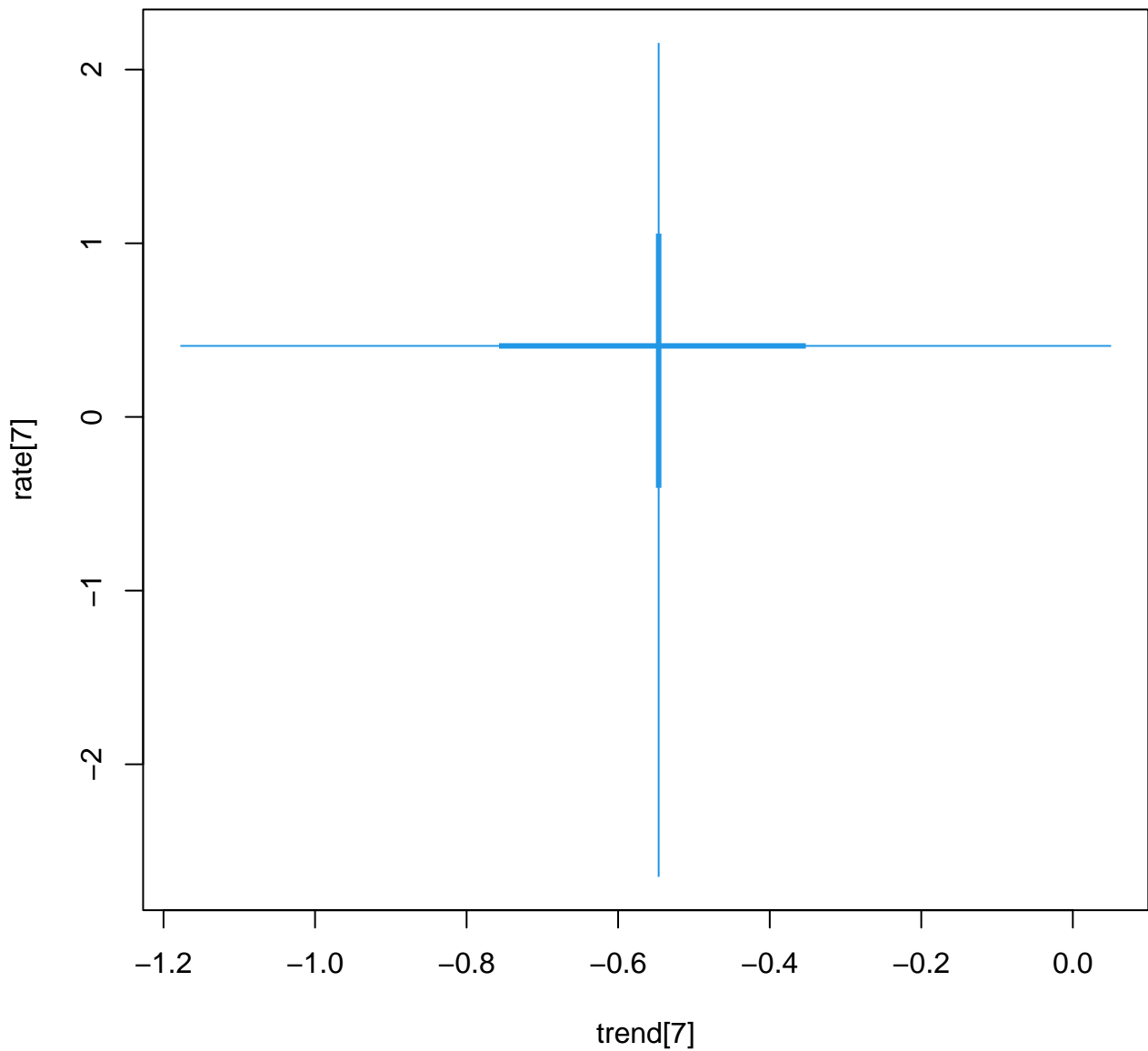


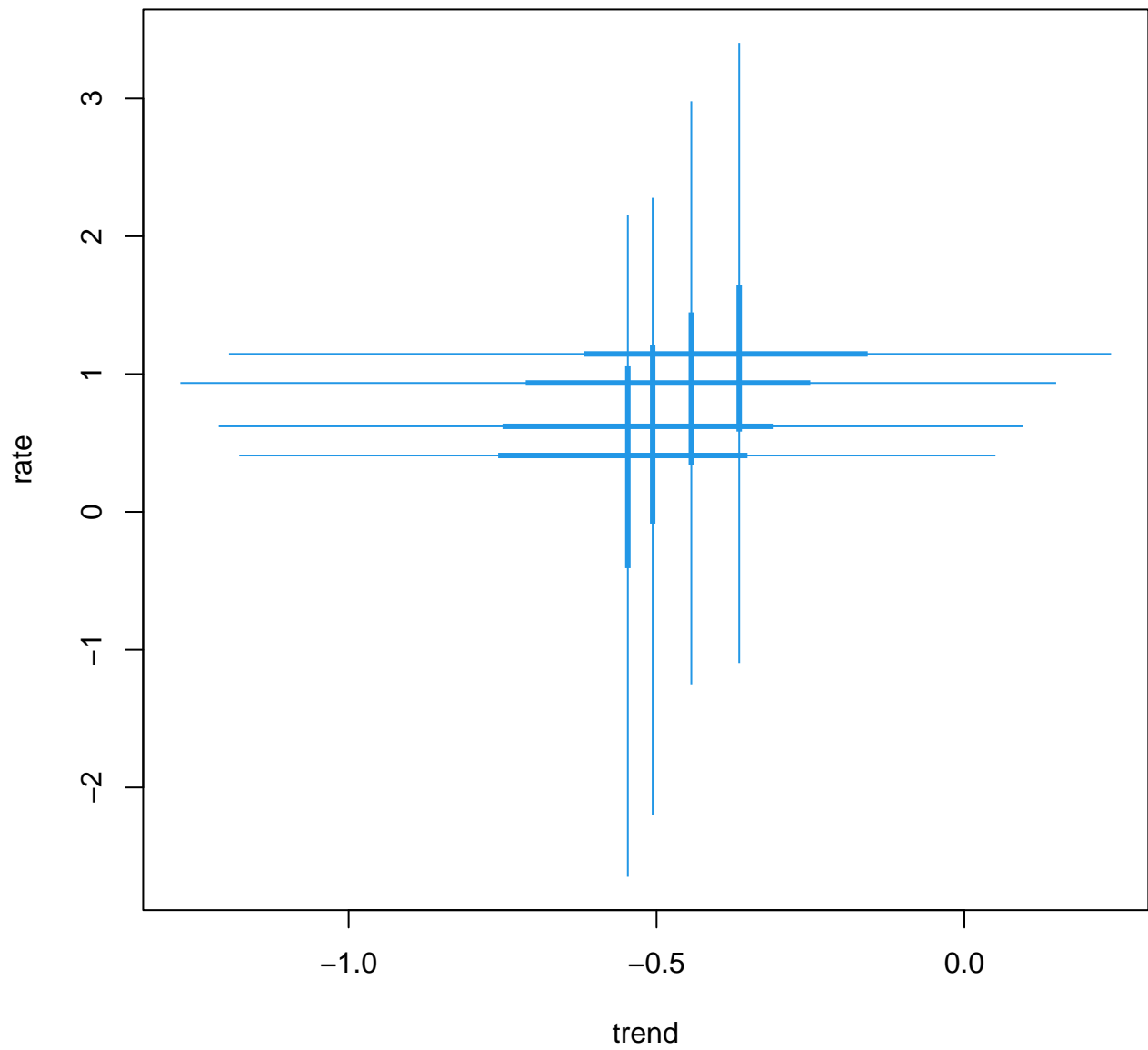


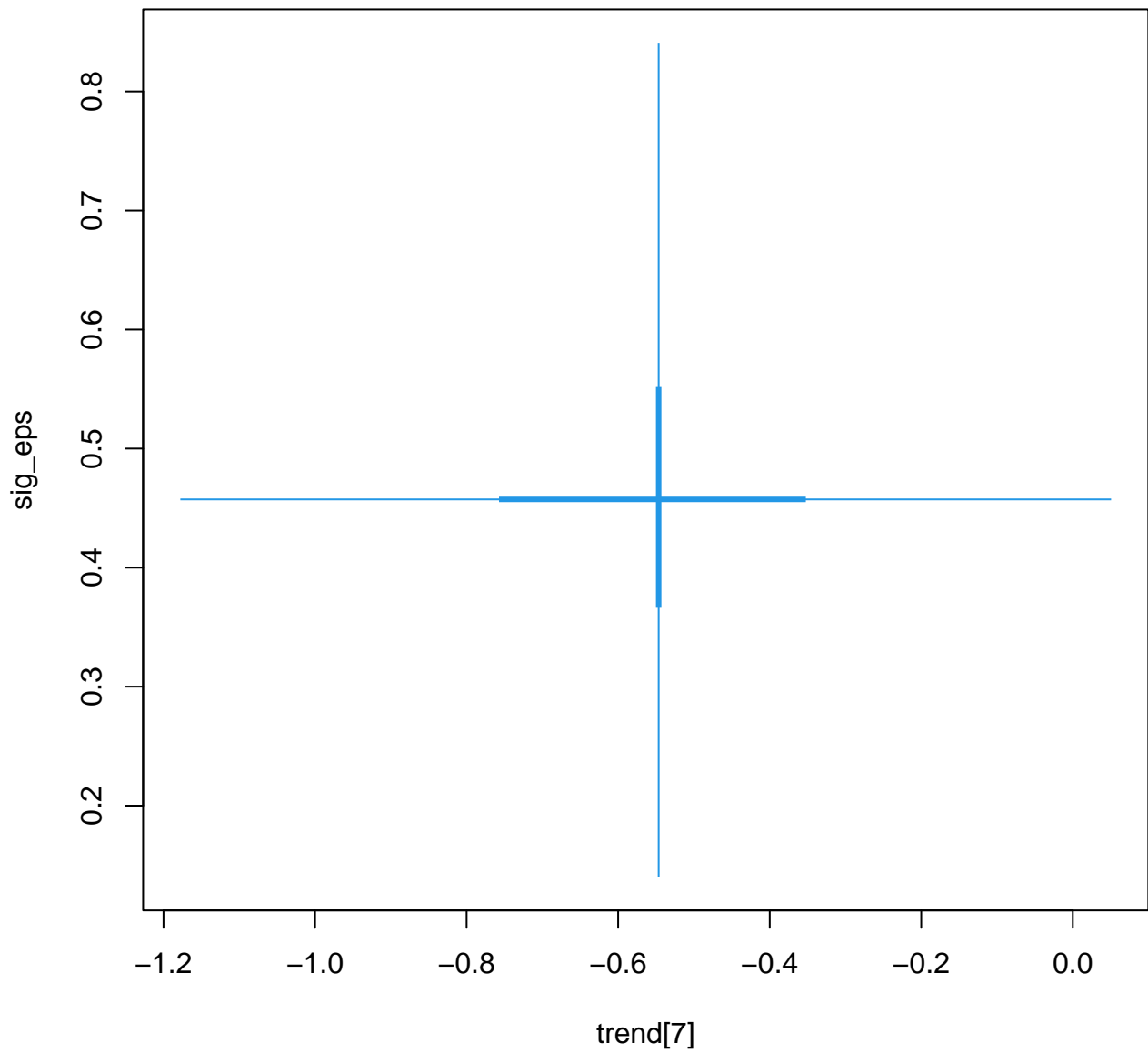


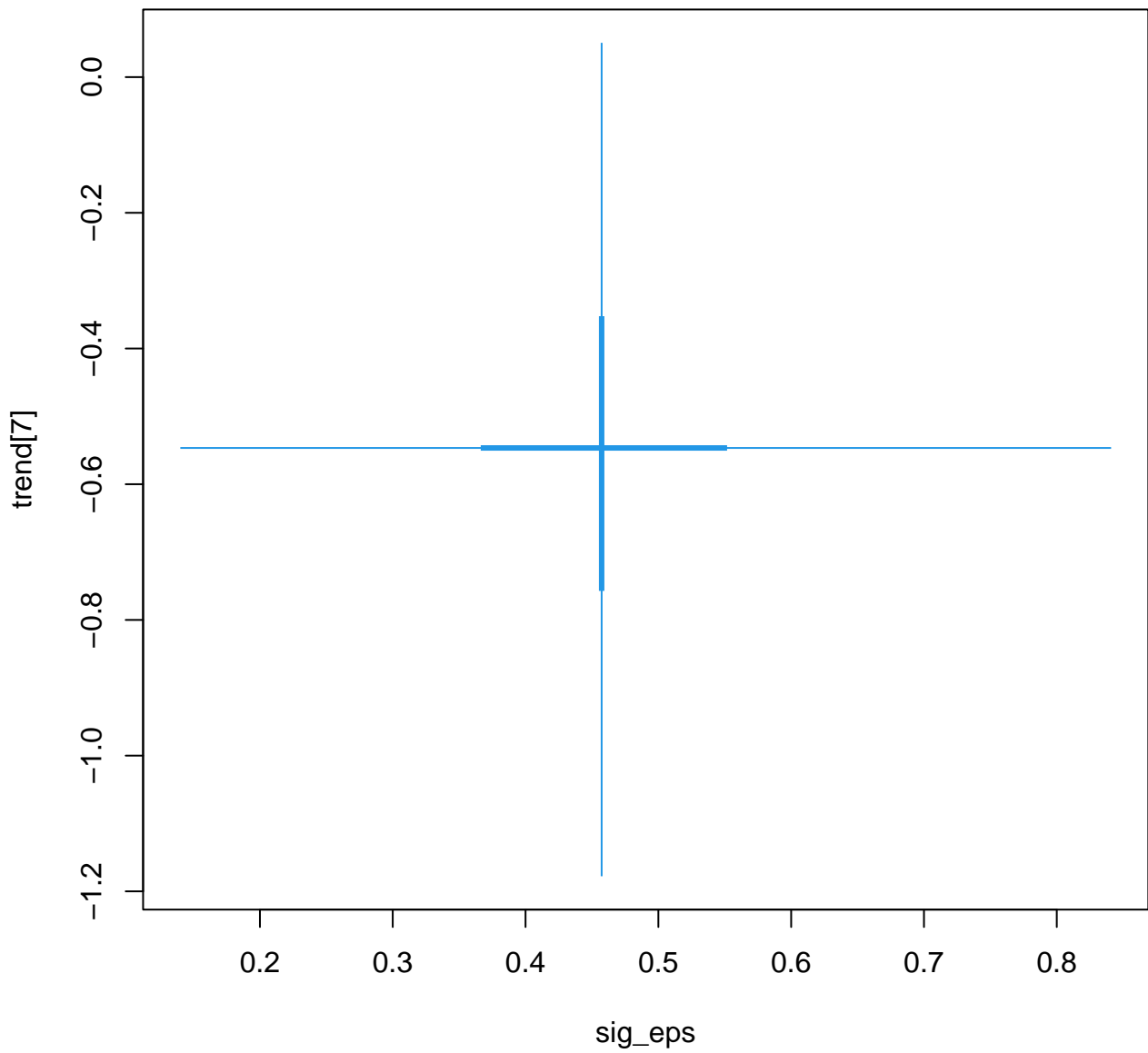


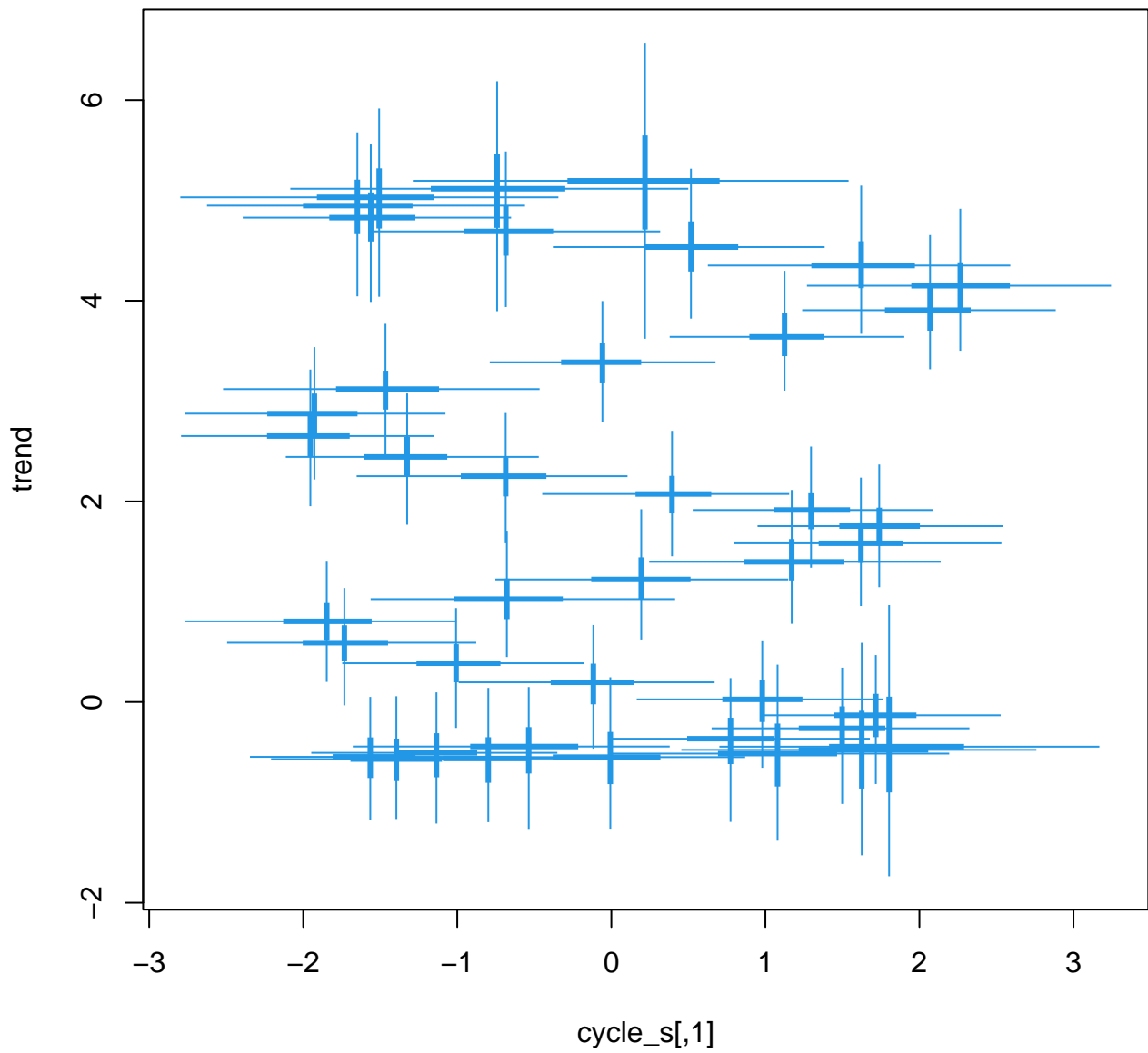


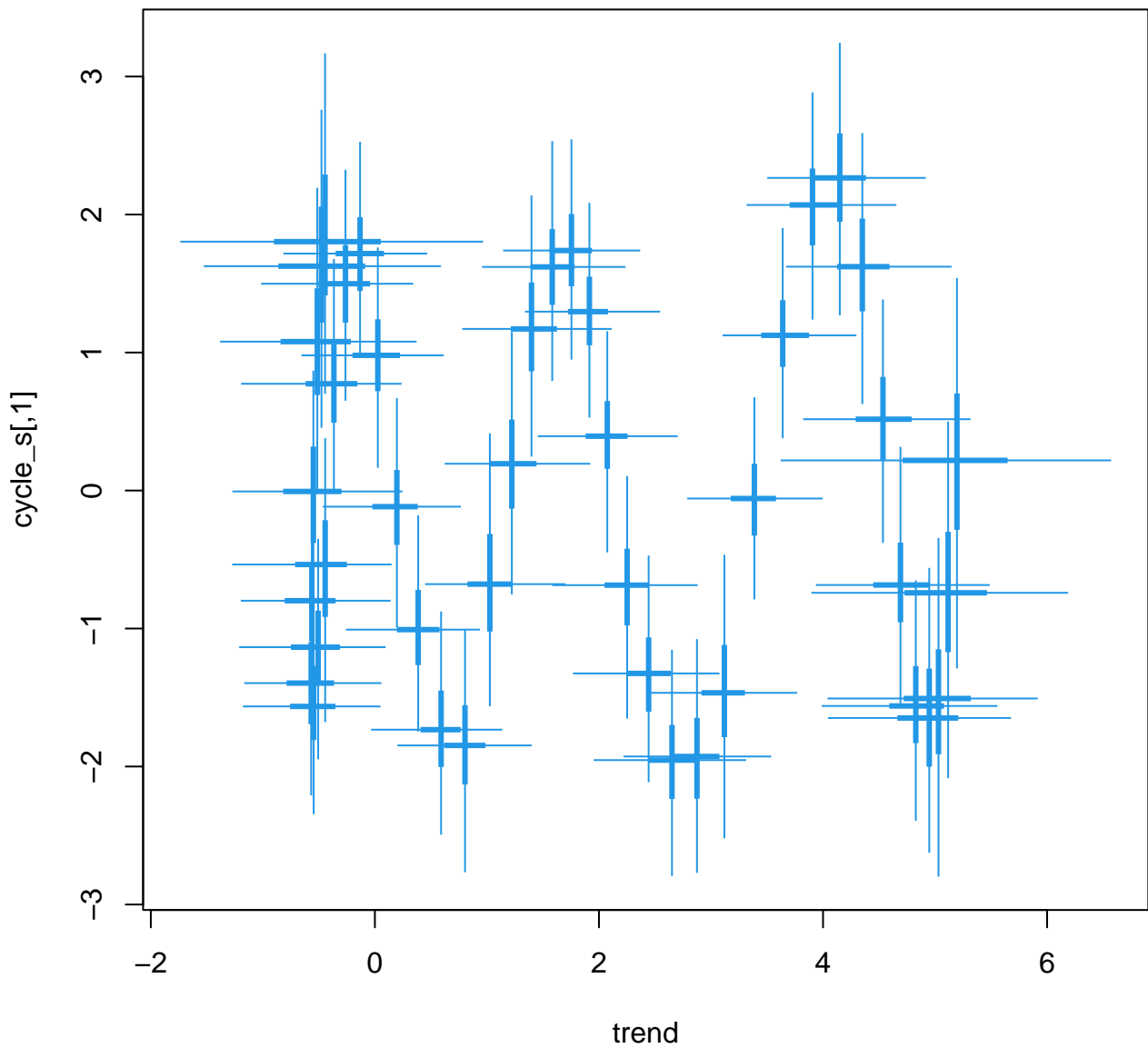




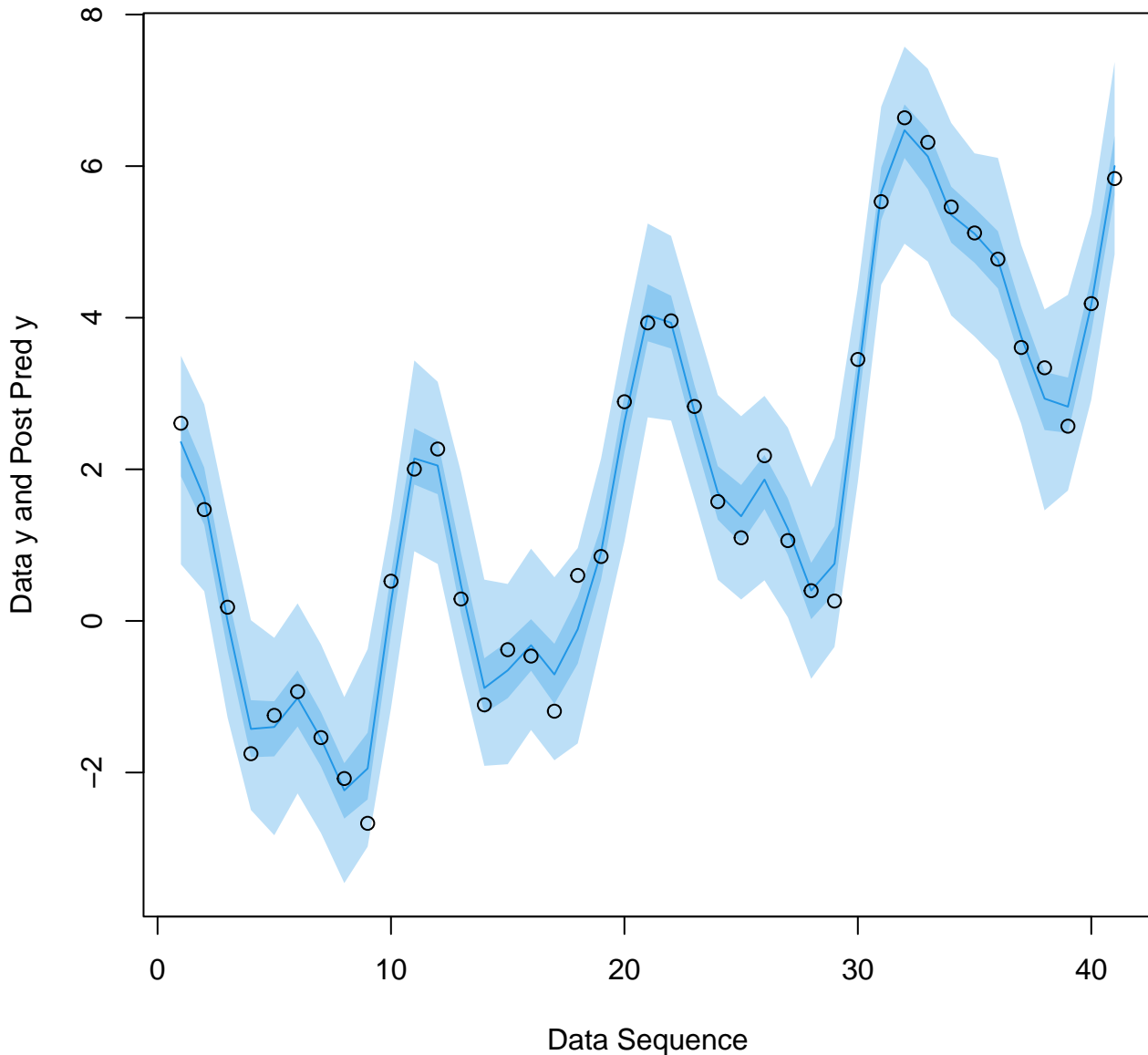




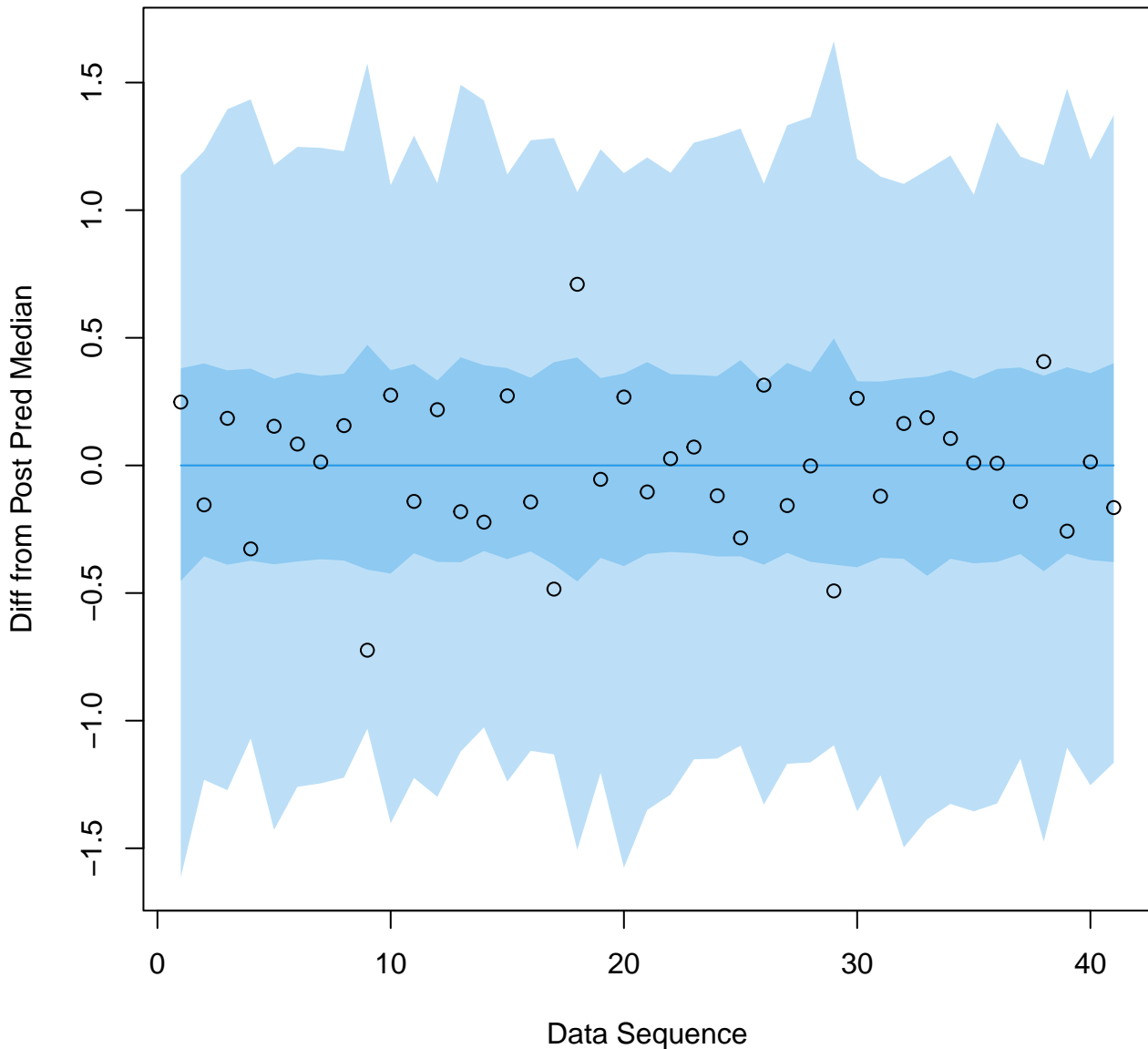




**Data y & Post Pred y  
vs. Data Sequence**

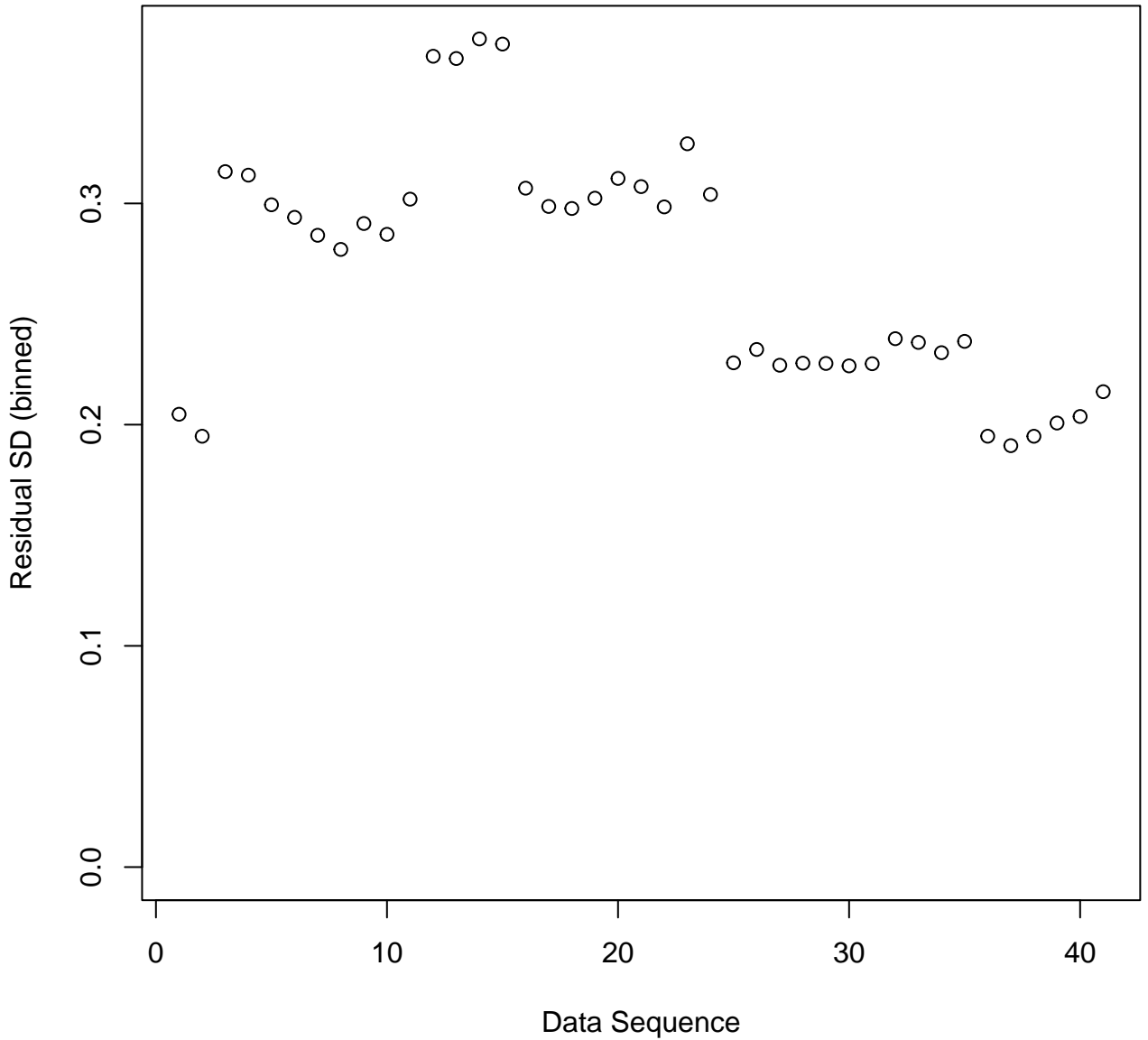


# Residuals & PP Residual vs. Data Sequence

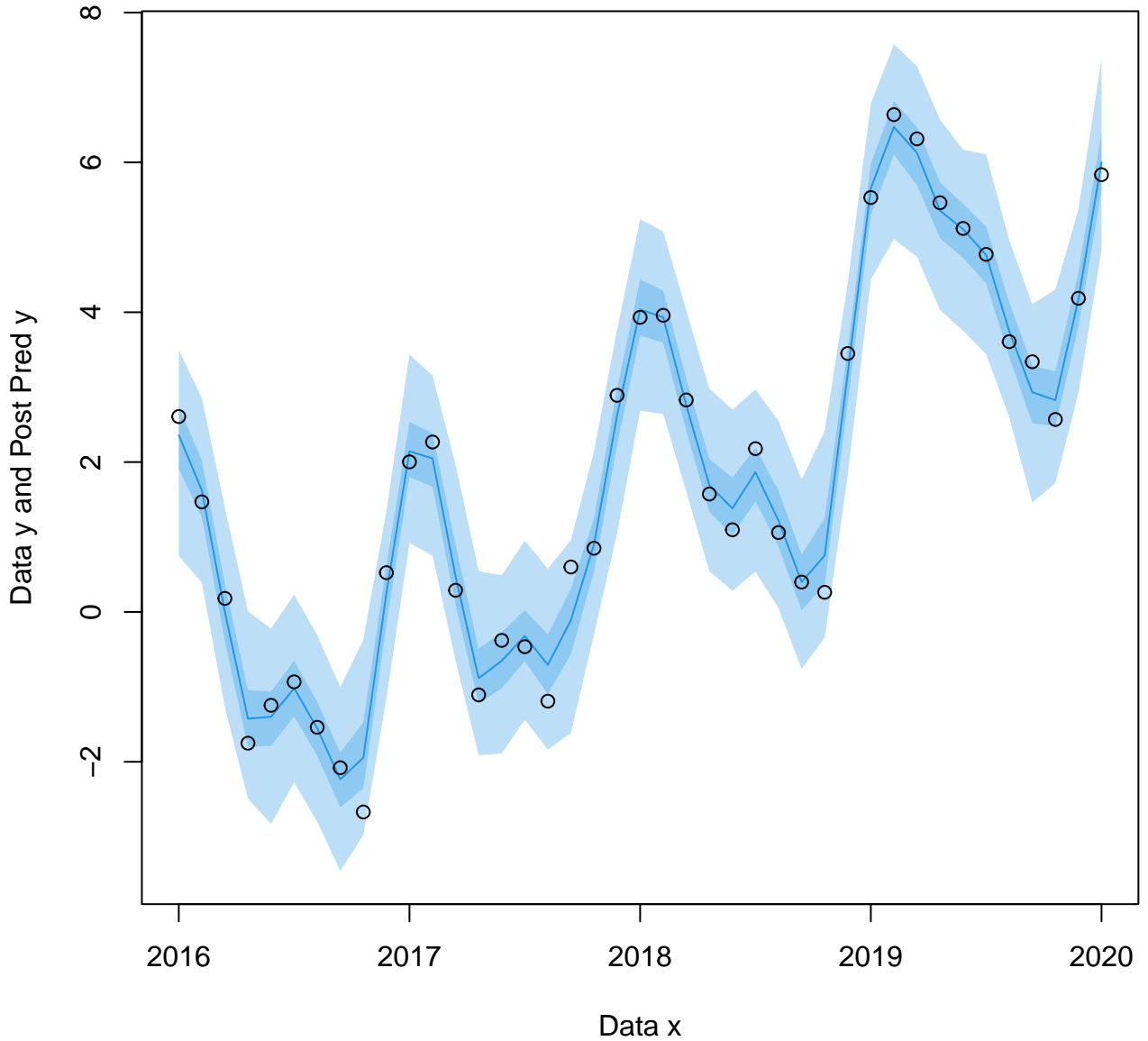




# Residual SD vs. Data Sequence

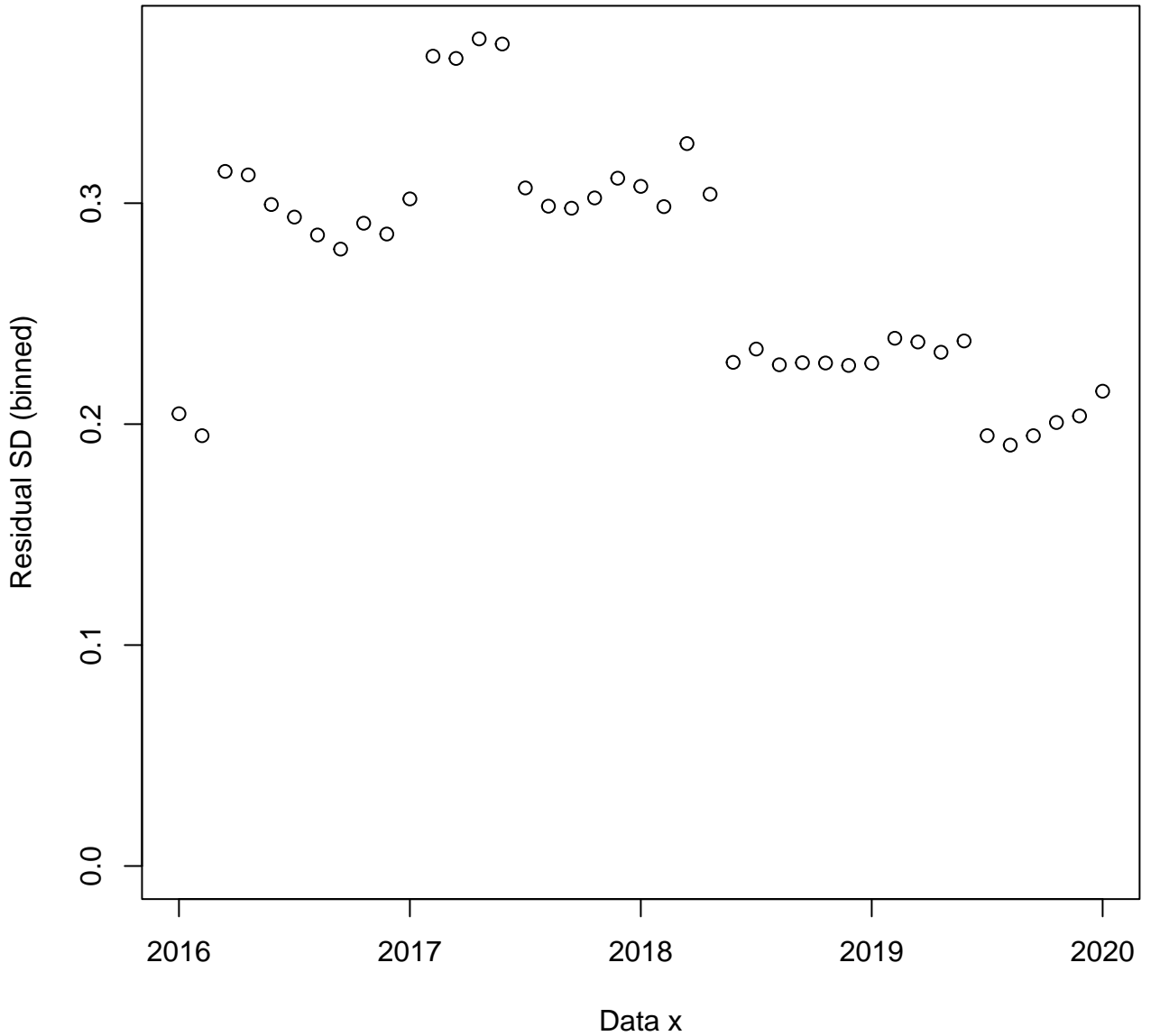


# Data y & Post Pred y vs. Data x

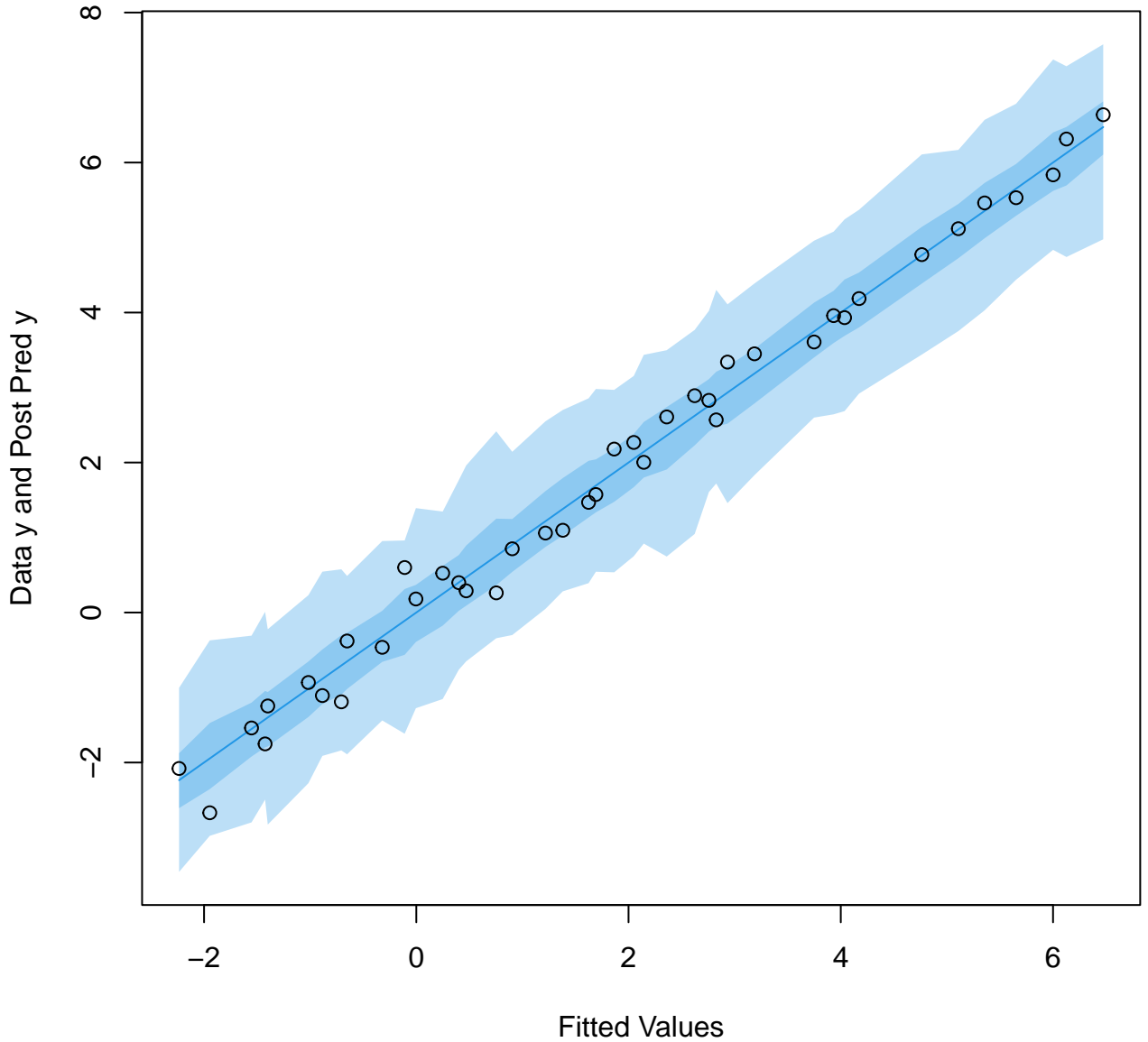




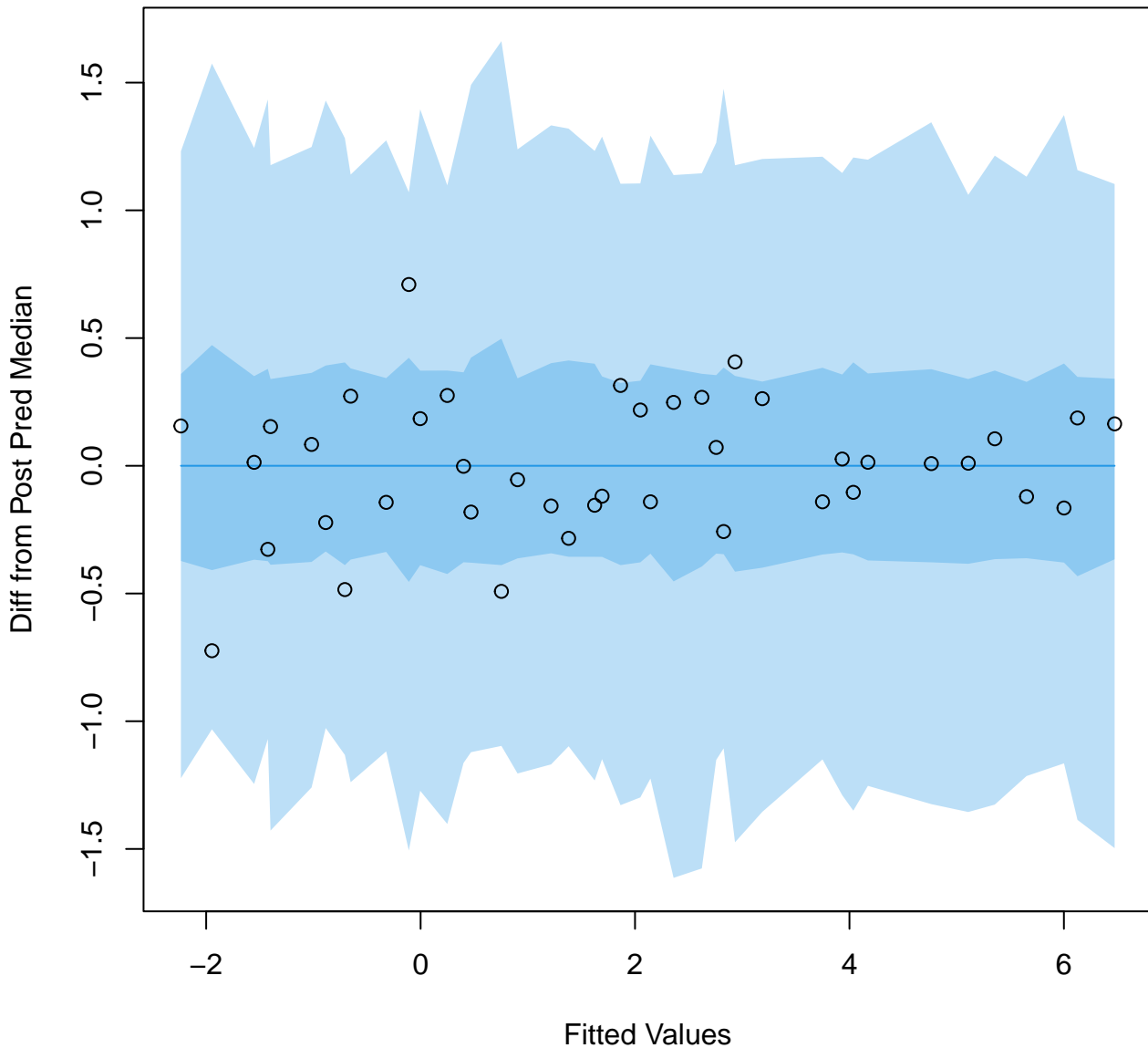
# Residual SD vs. Data x



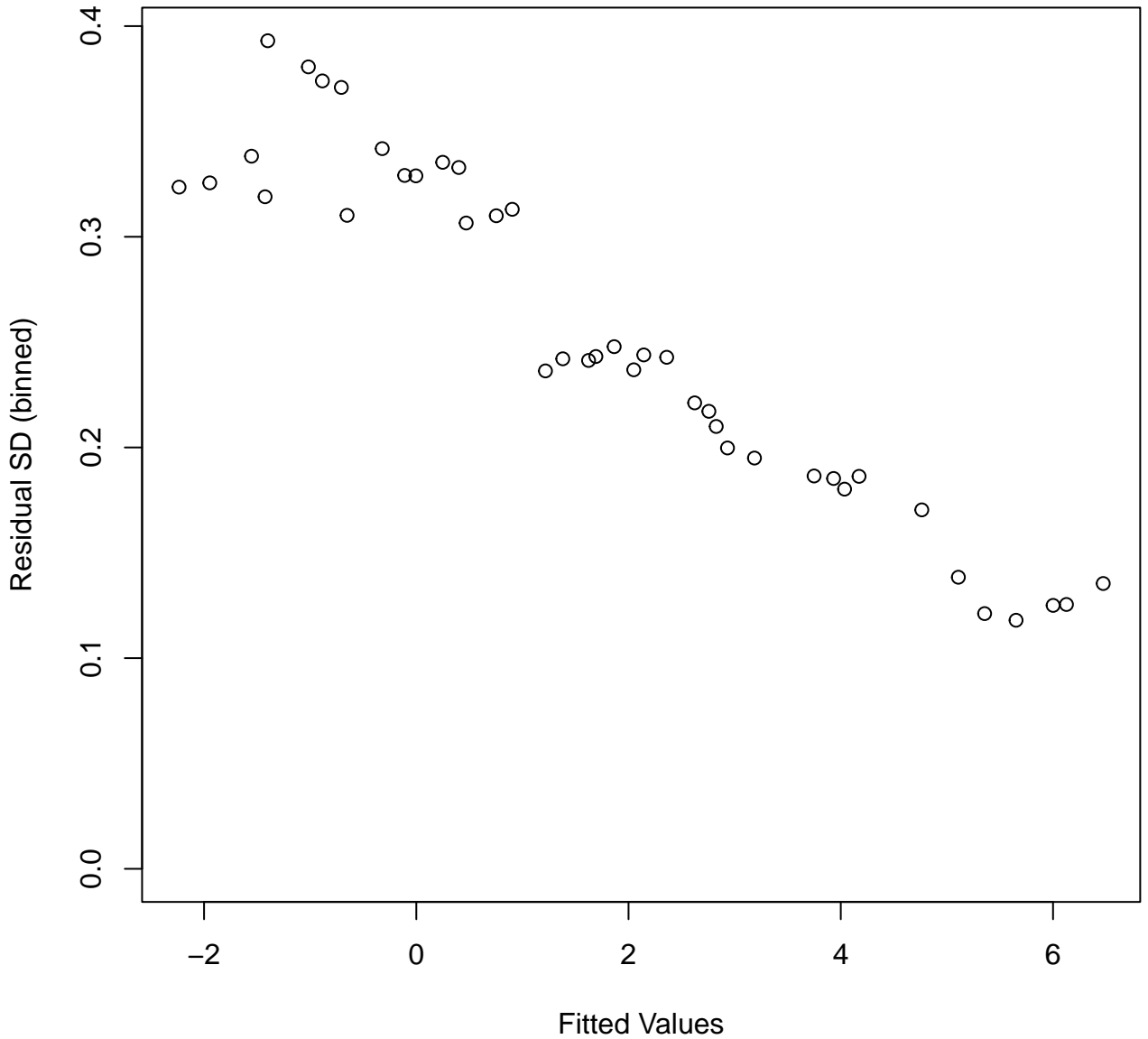
# Data y & Post Pred y vs. Fitted Values



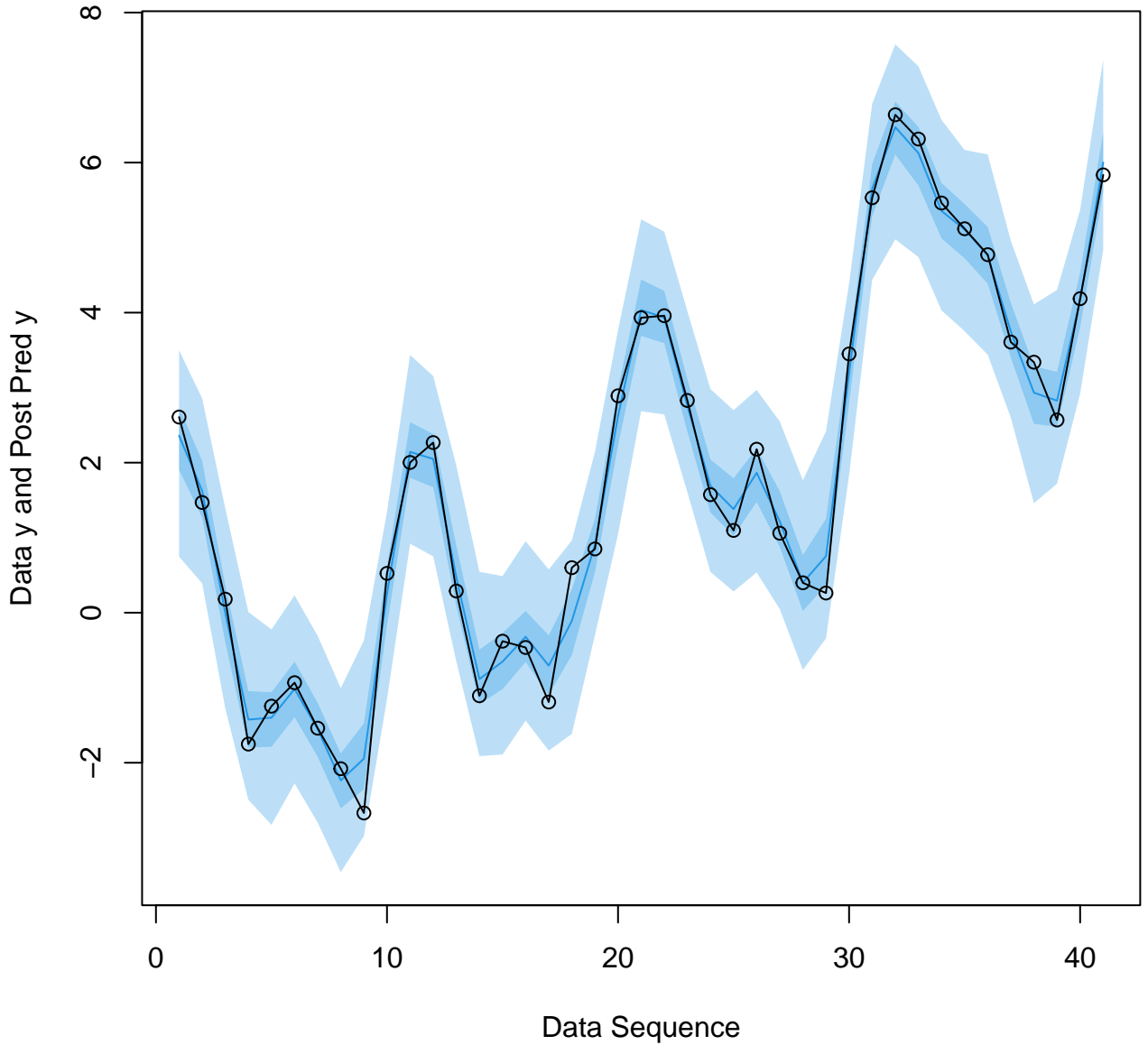
# Residuals & PP Residual vs. Fitted Values



# Residual SD vs. Fitted Values

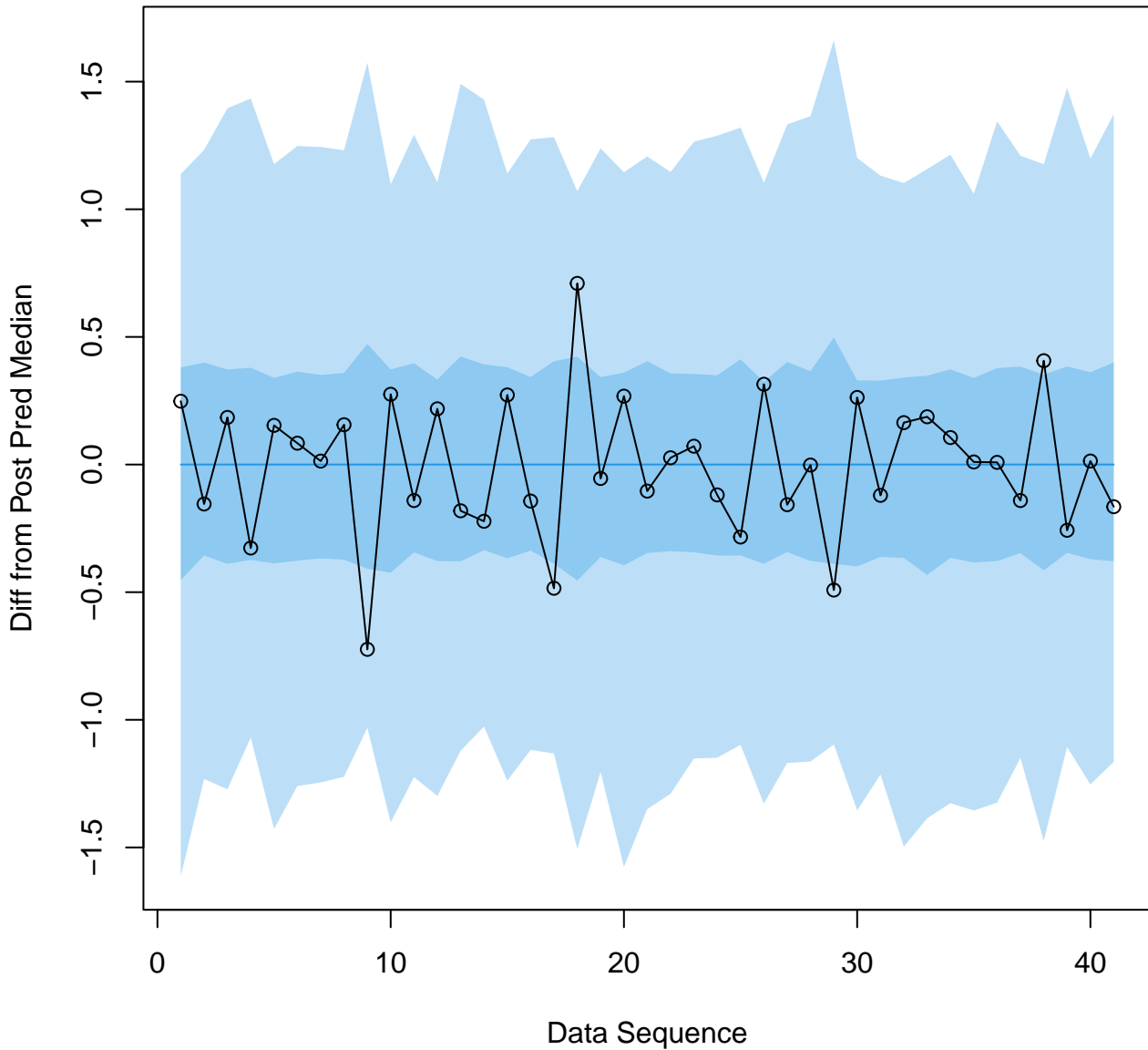


**Data y & Post Pred y  
vs. Data Sequence**

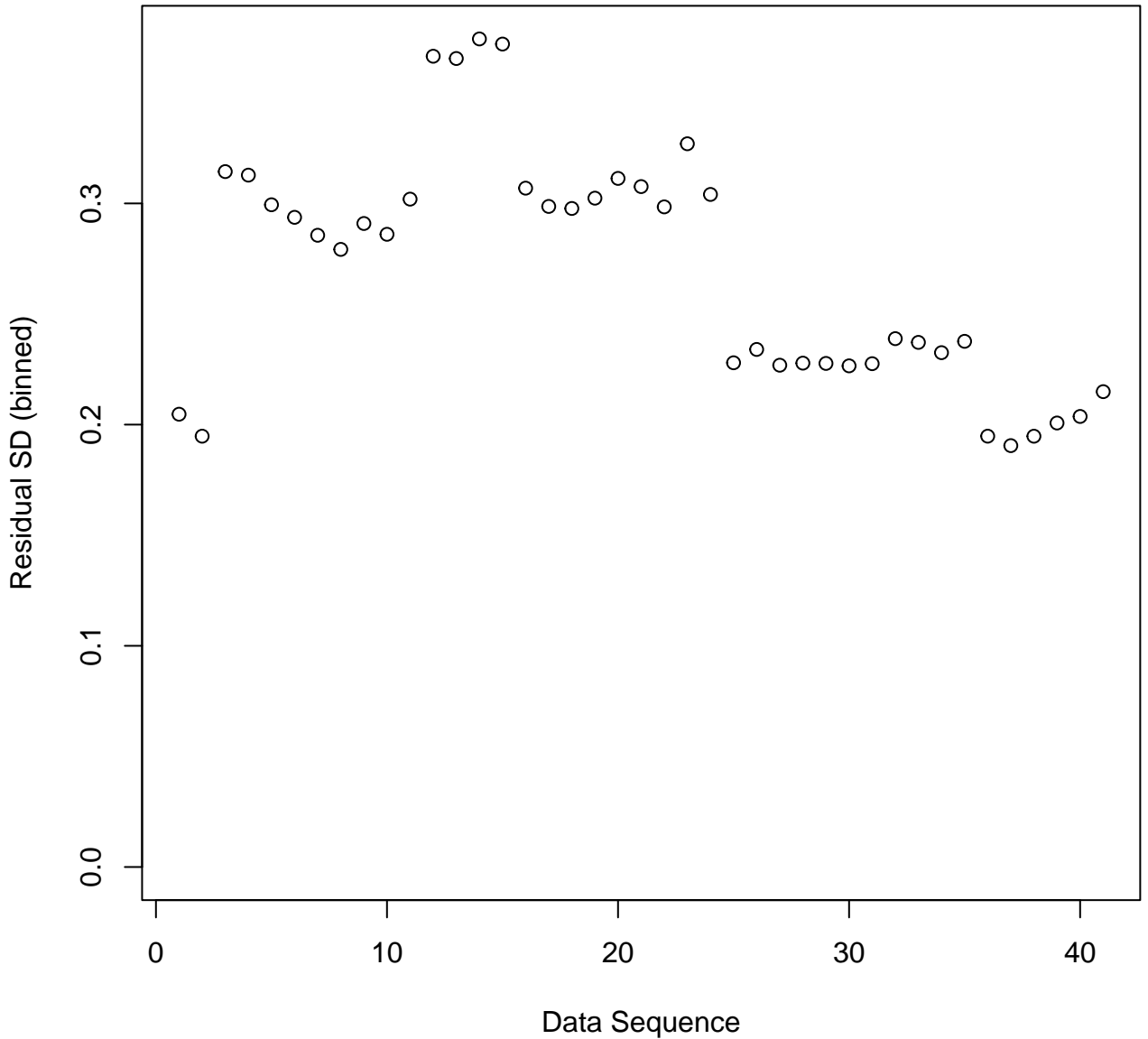




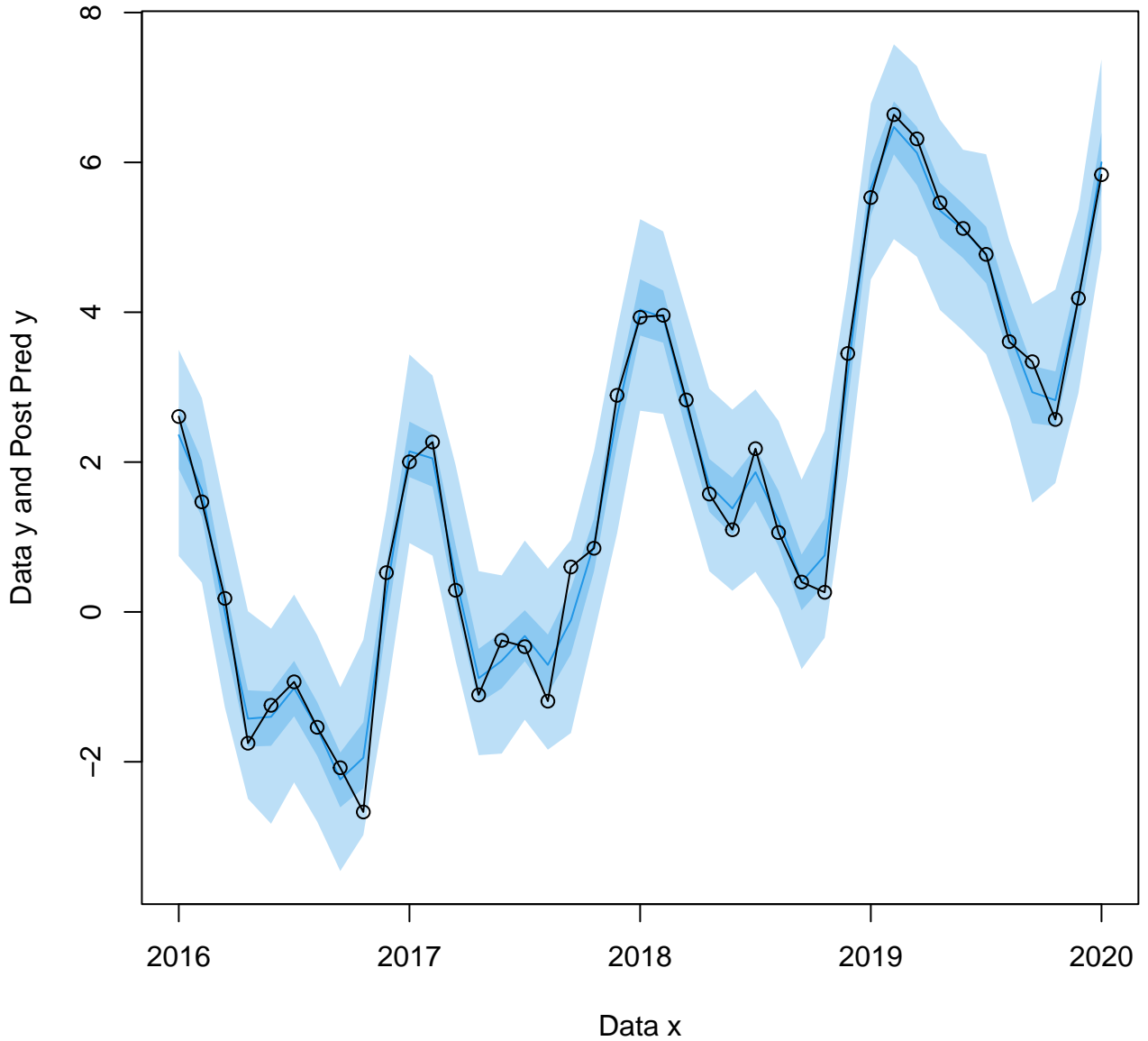
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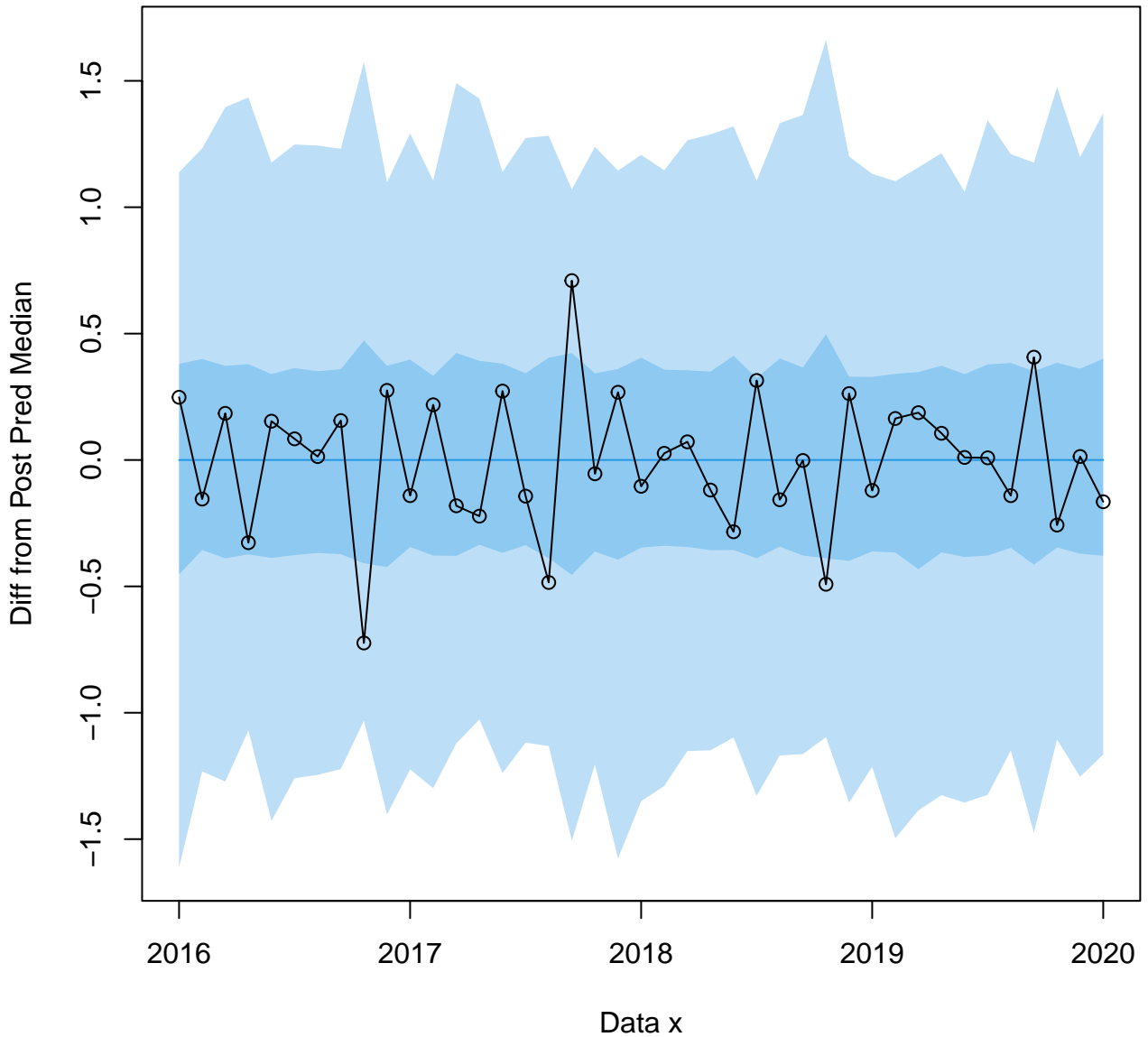
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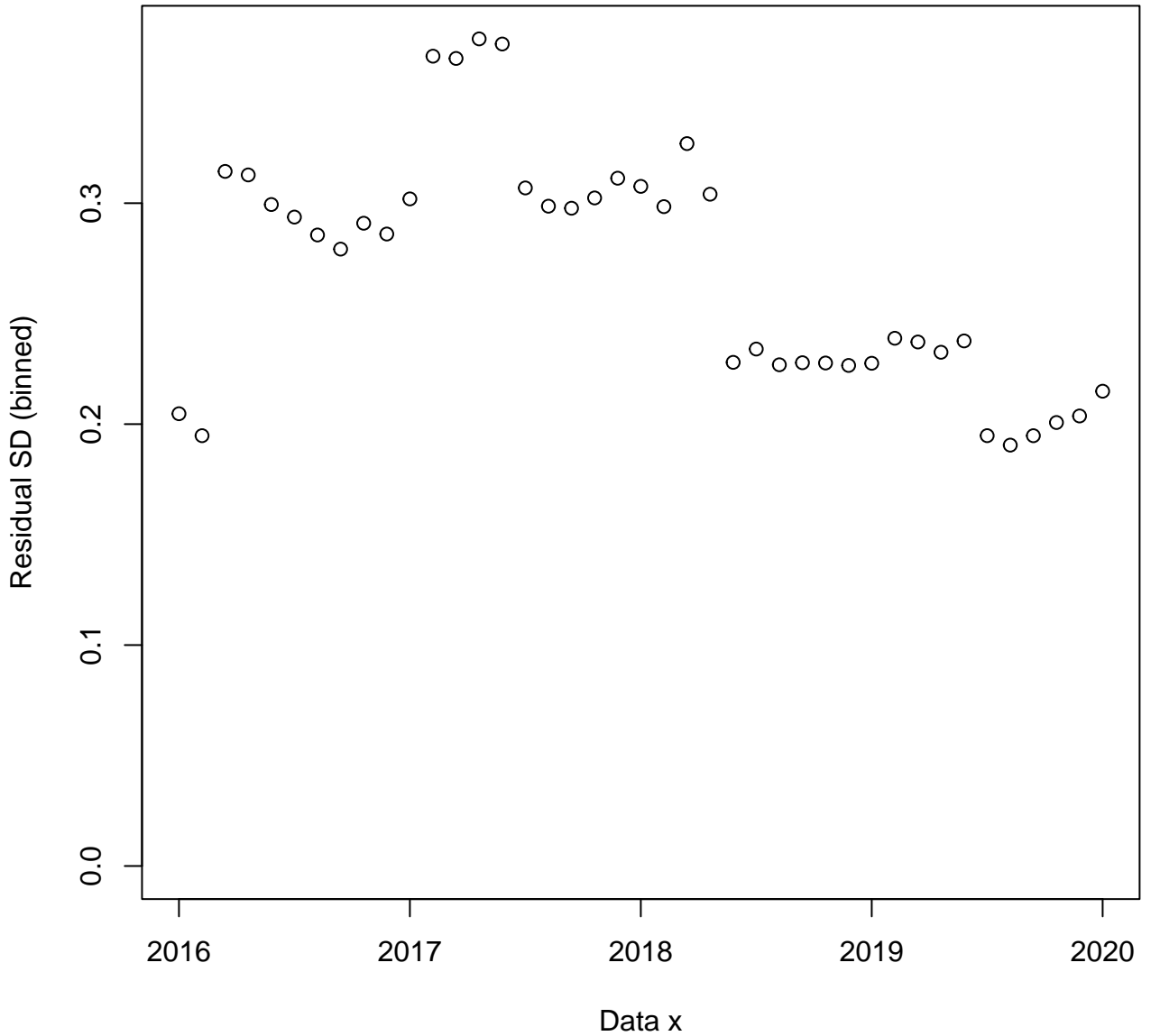
# Data y & Post Pred y vs. Data x



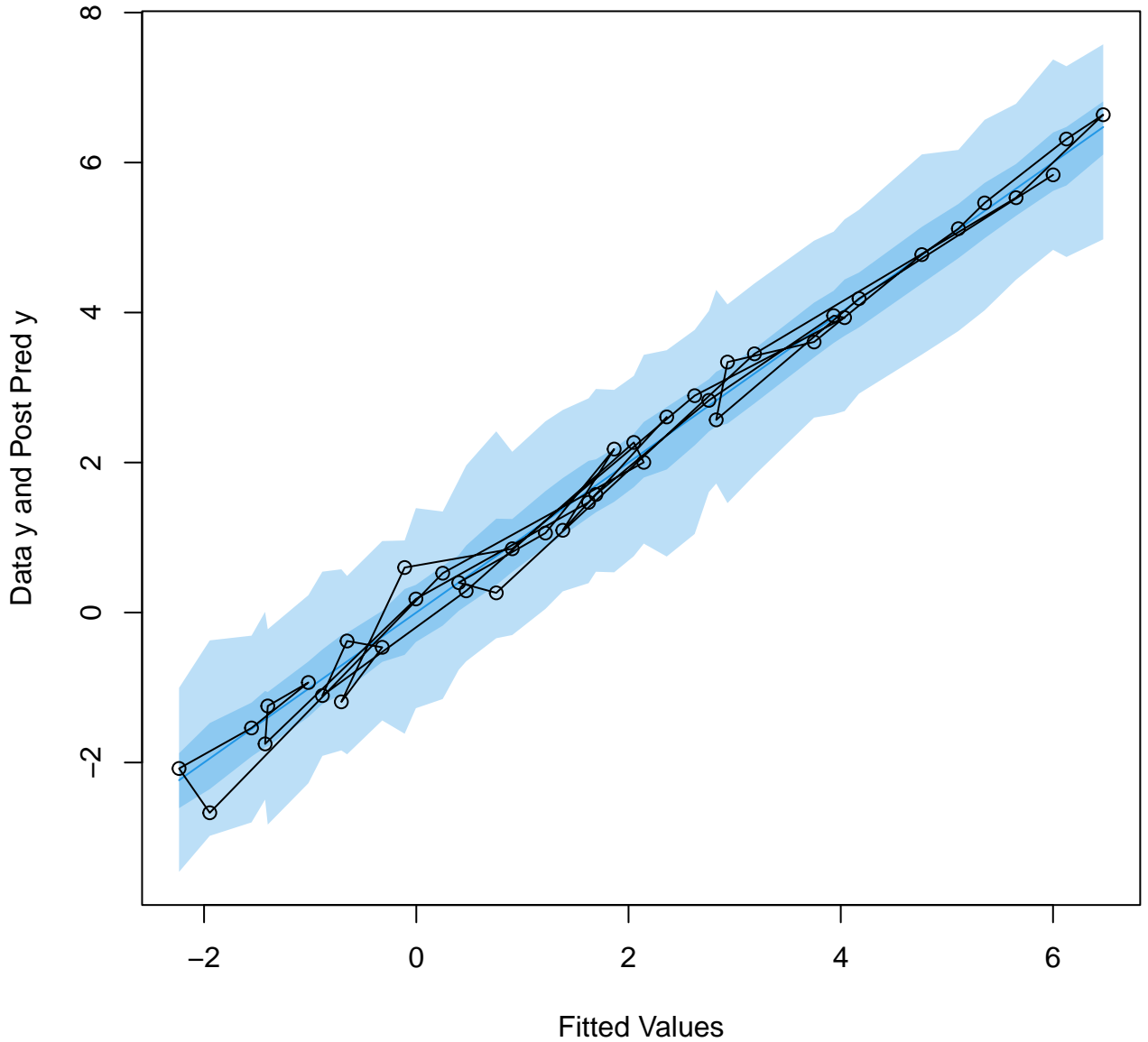
# Residuals & PP Residual vs. Data x



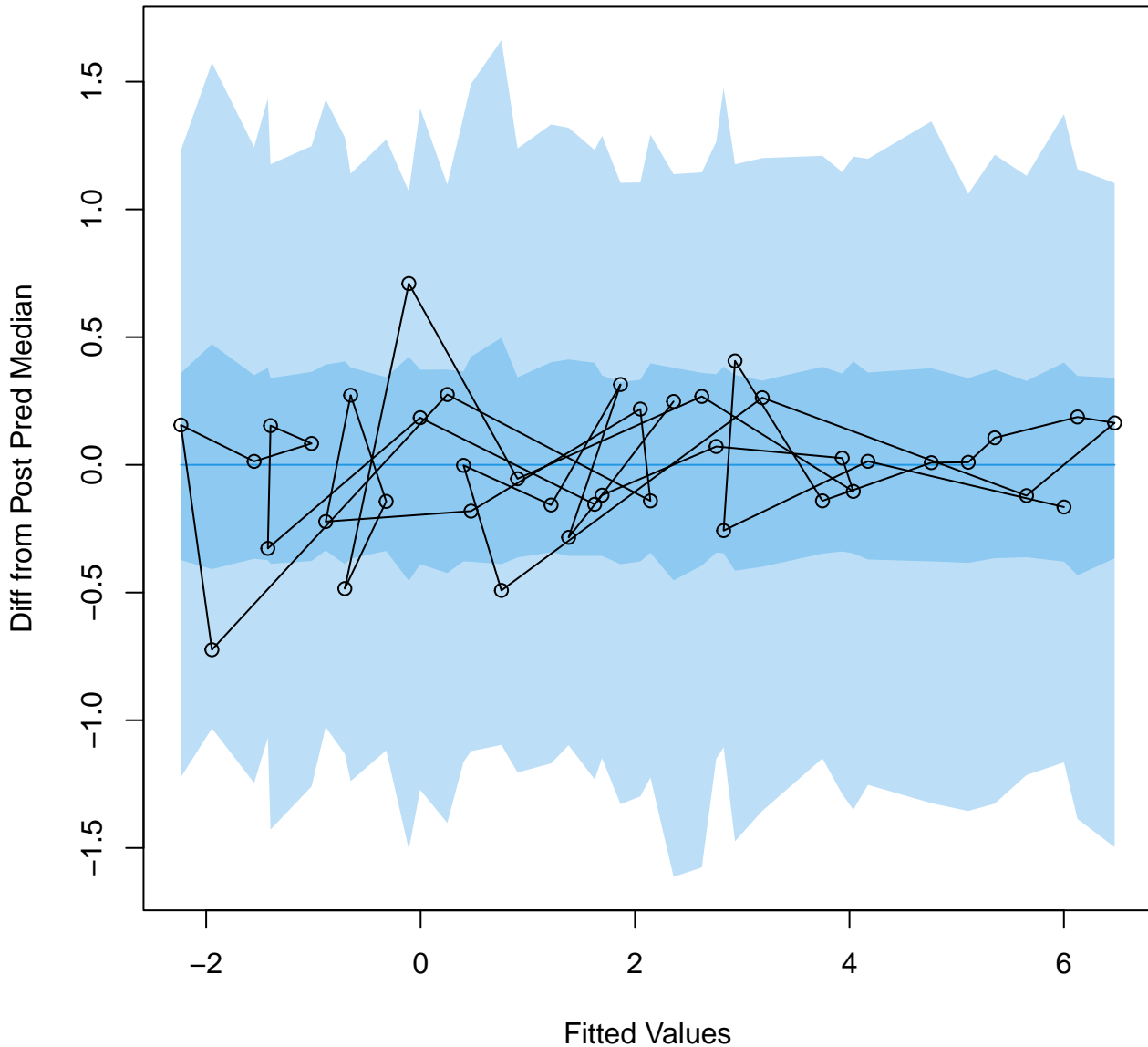
# Residual SD vs. Data x



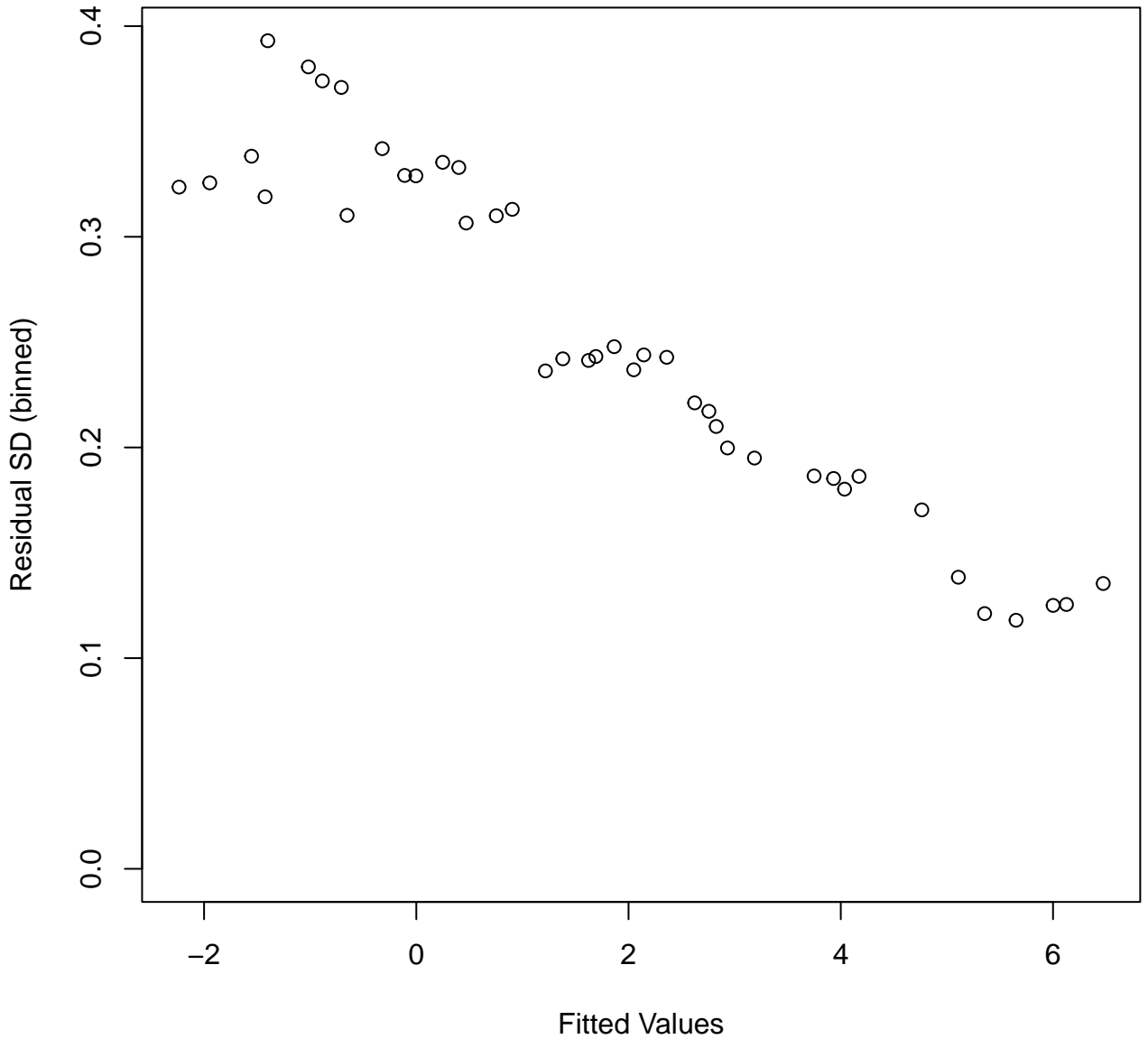
# Data y & Post Pred y vs. Fitted Values



# Residuals & PP Residual vs. Fitted Values

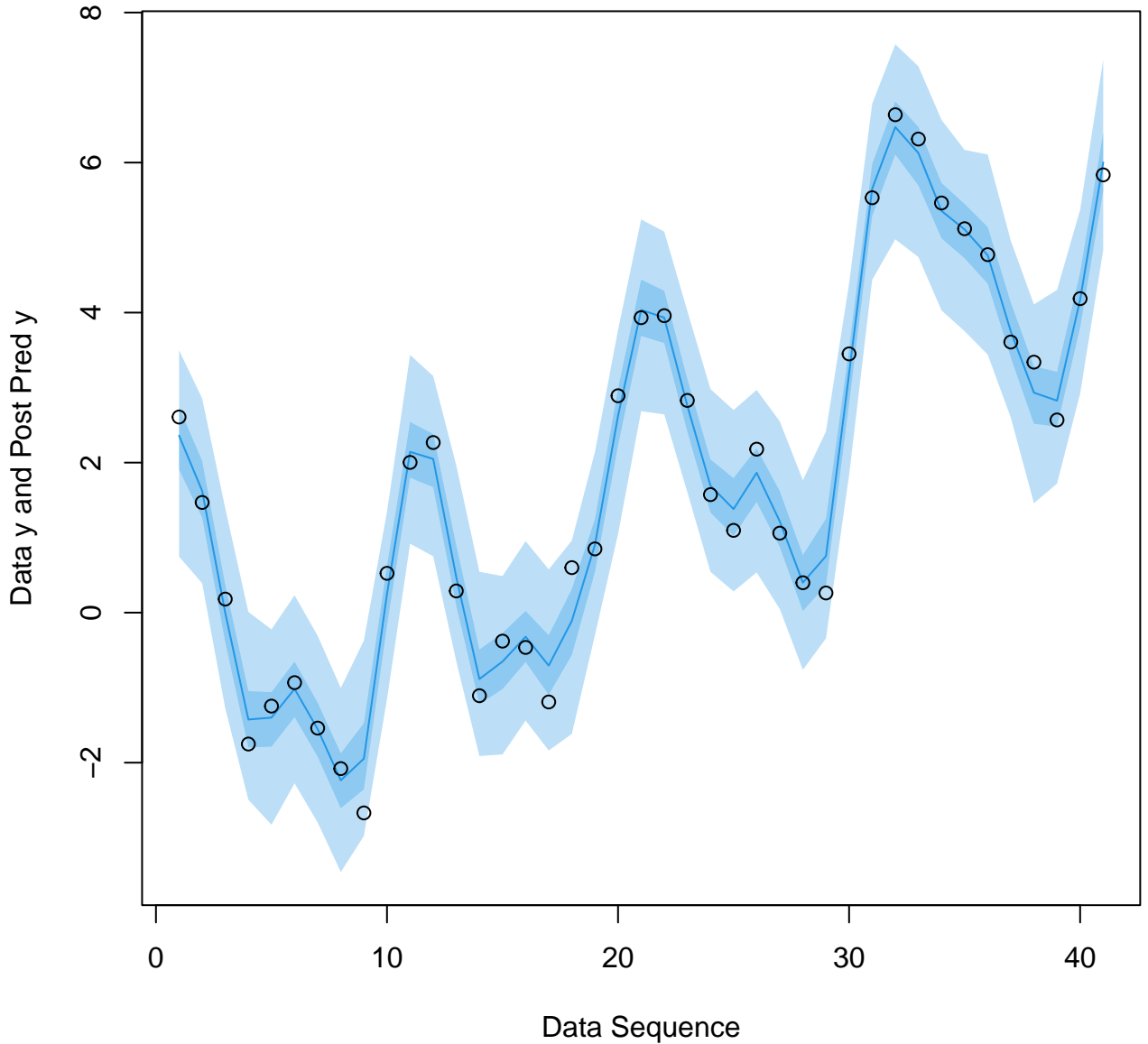


# Residual SD vs. Fitted Values

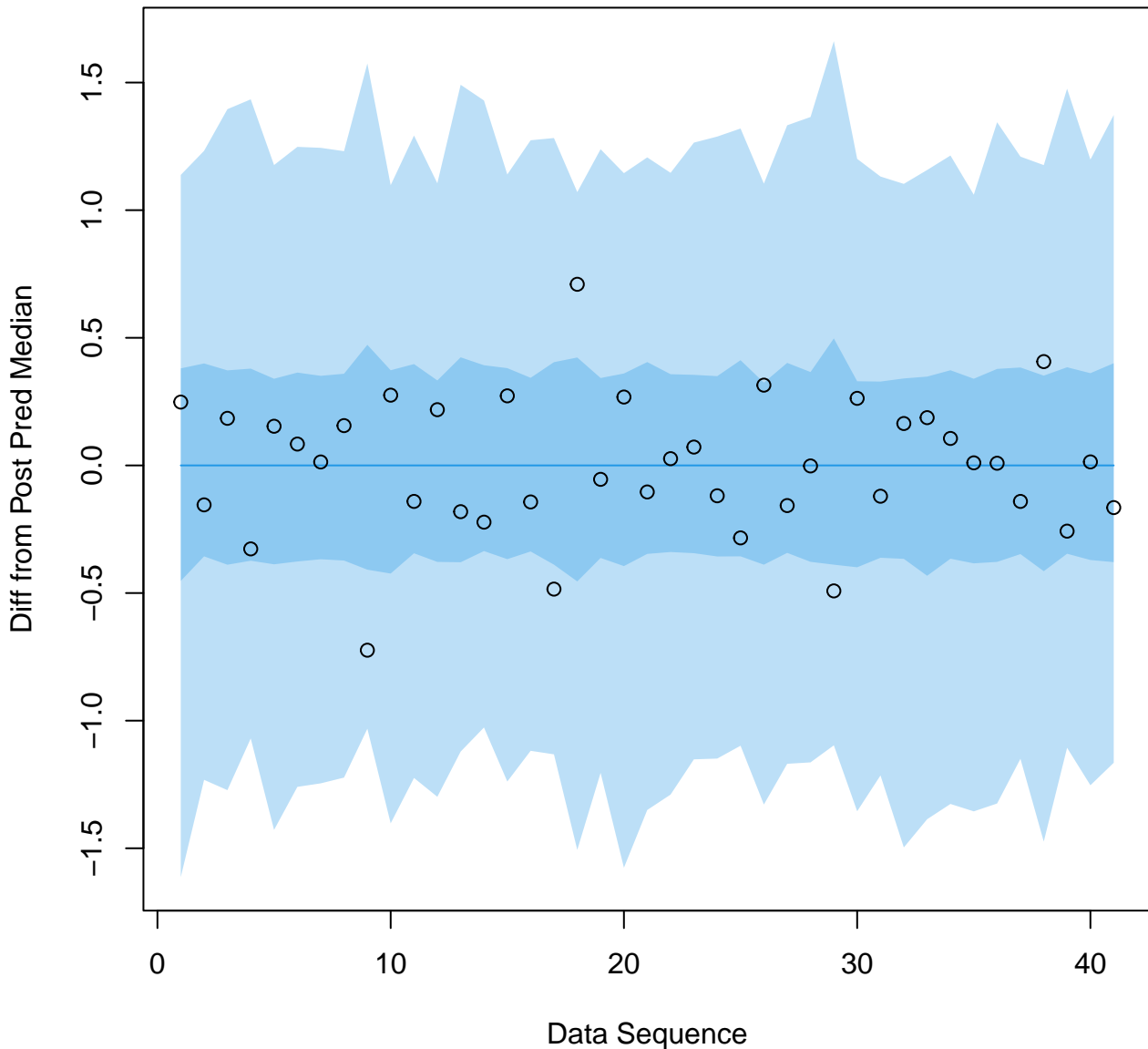




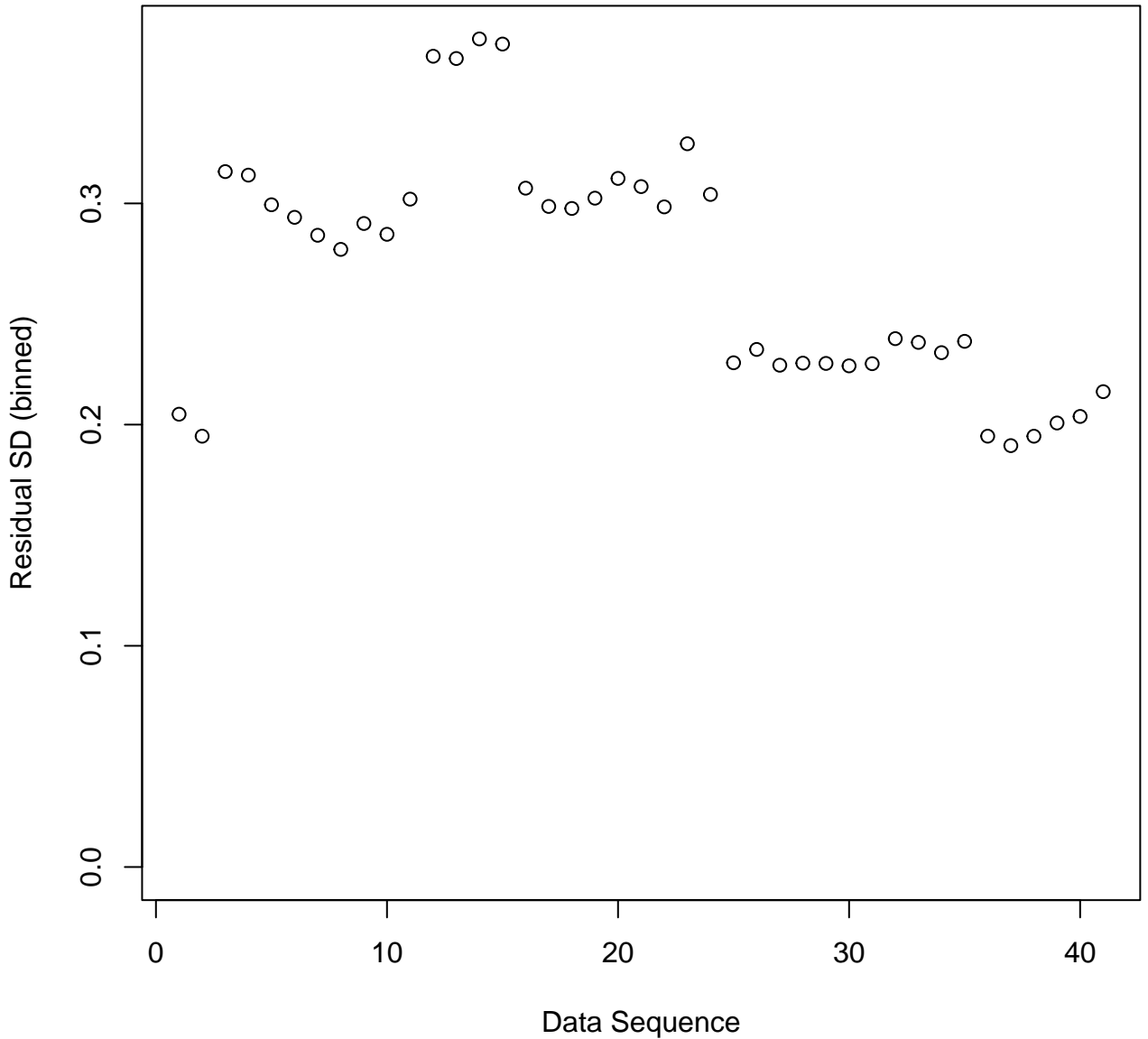
**Data y & Post Pred y  
vs. Data Sequence**



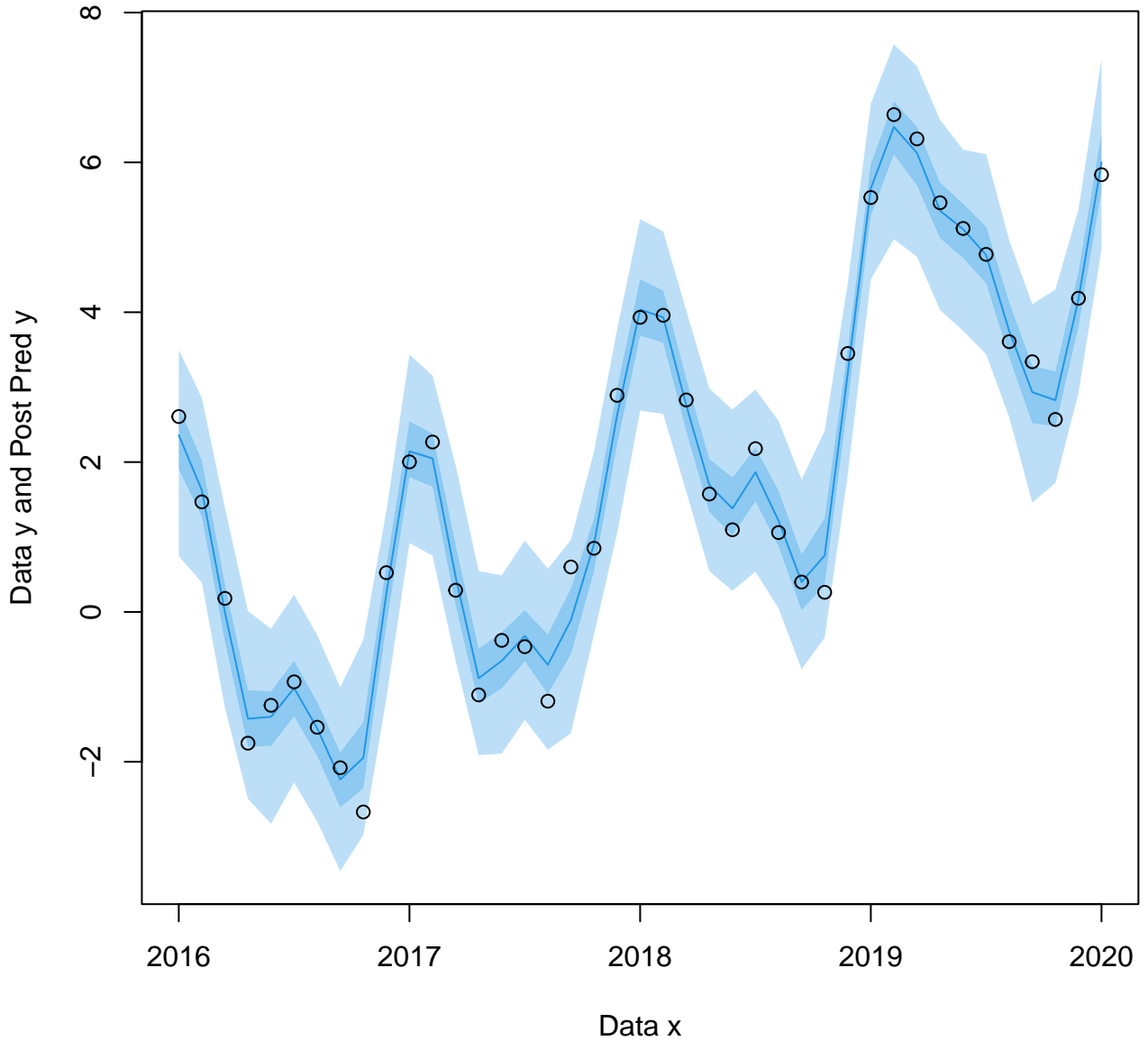
# Residuals & PP Residual vs. Data Sequence



# Residual SD vs. Data Sequence

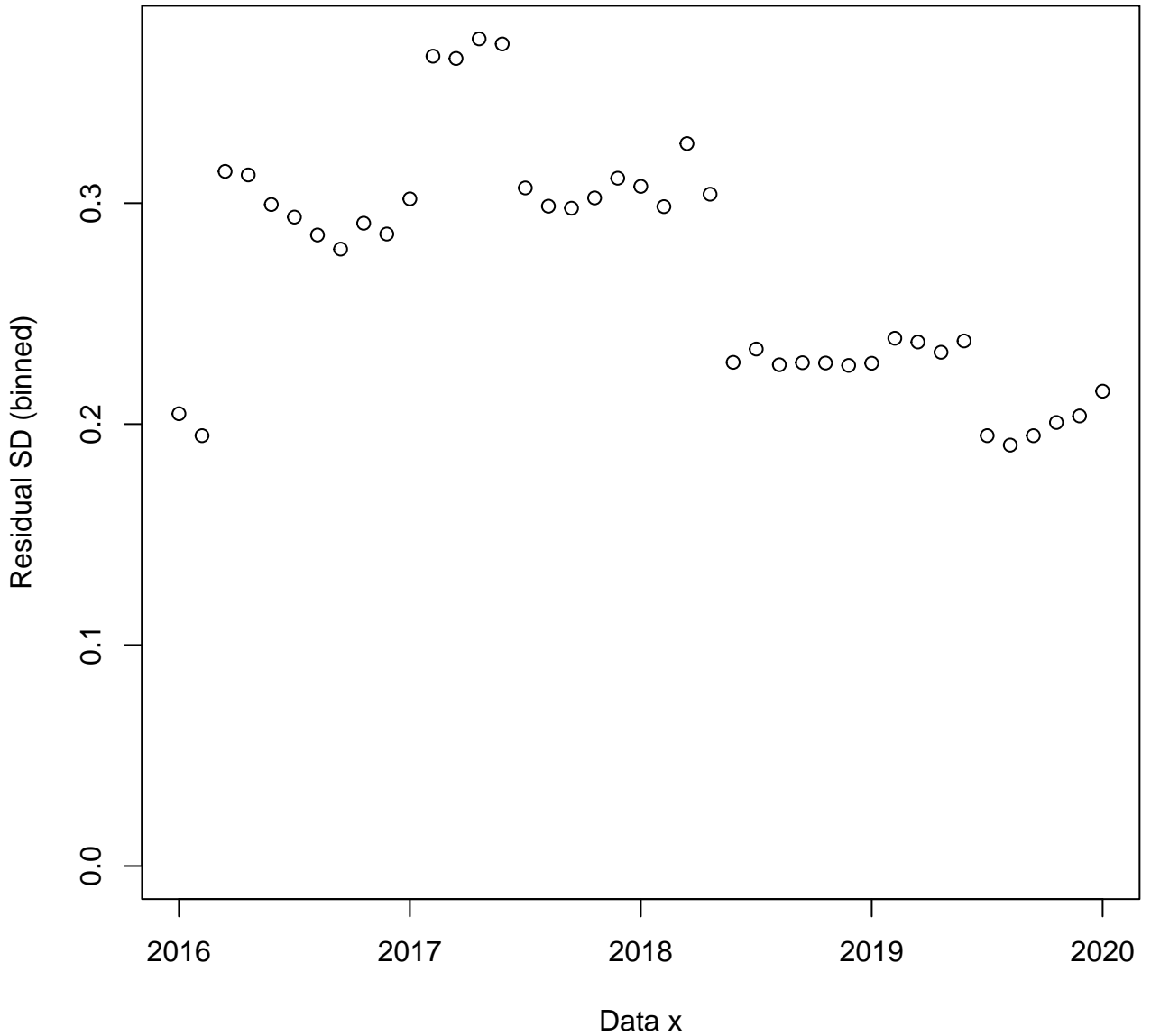


# Data y & Post Pred y vs. Data x

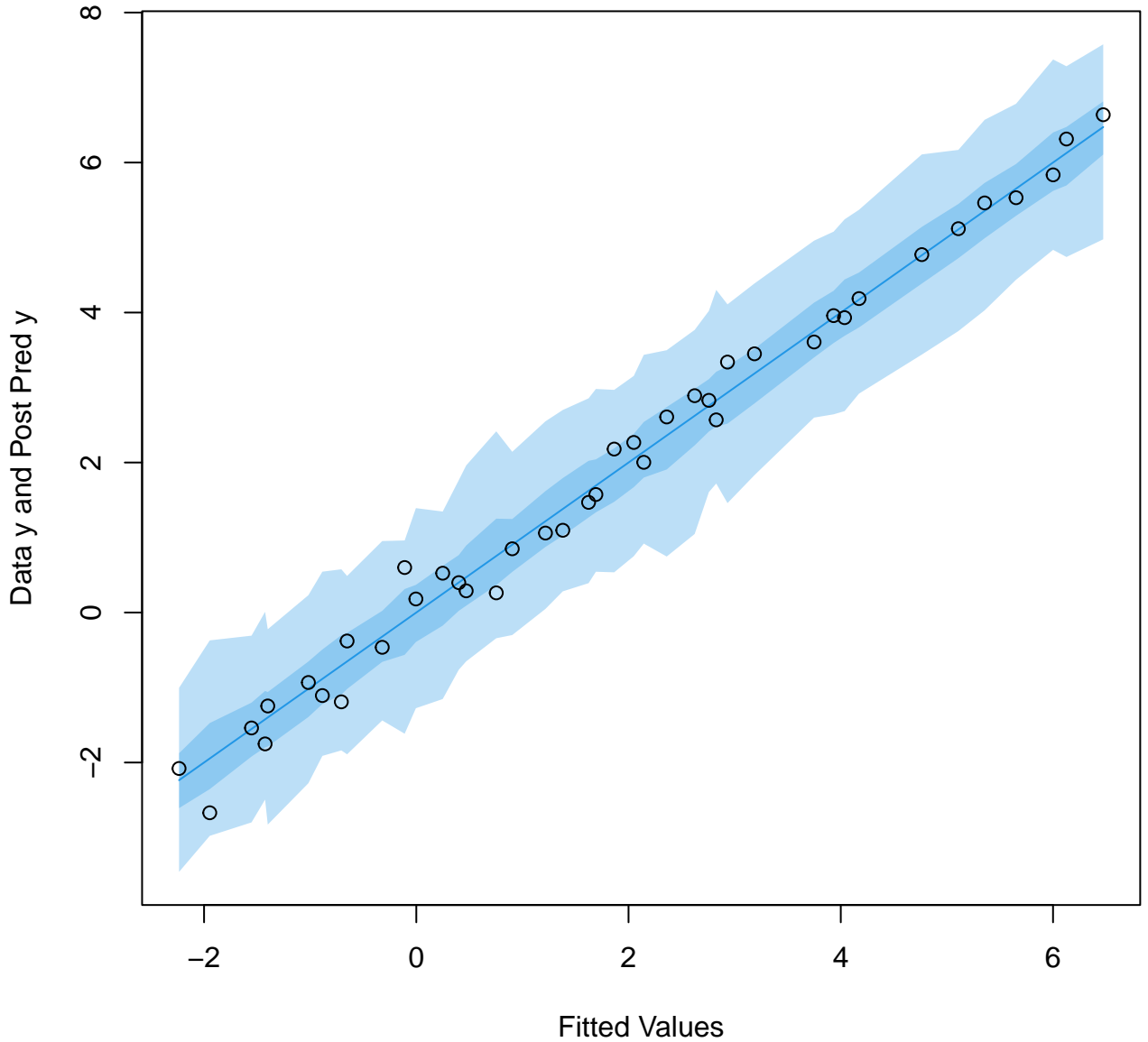




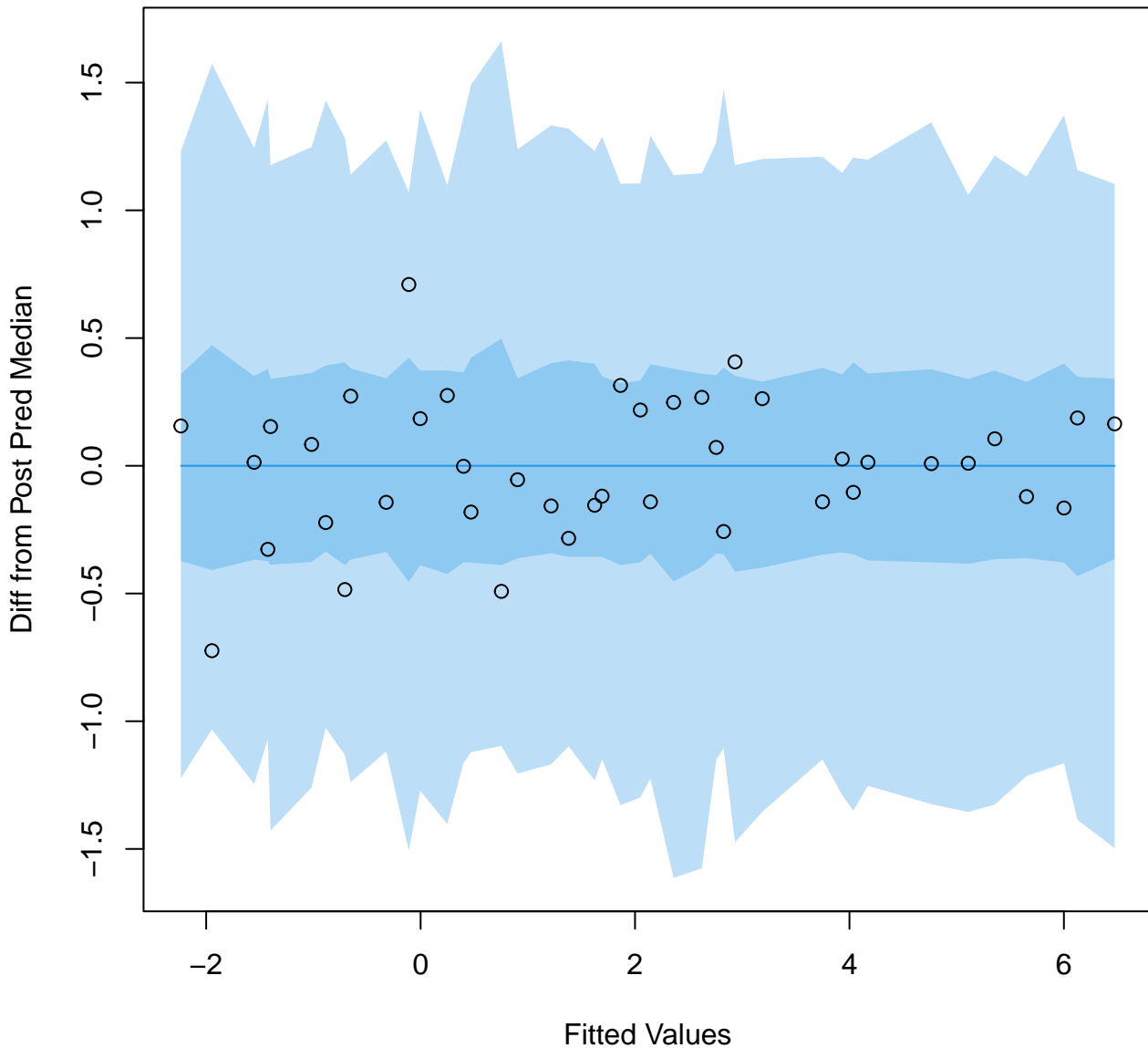
# Residual SD vs. Data x



# Data y & Post Pred y vs. Fitted Values

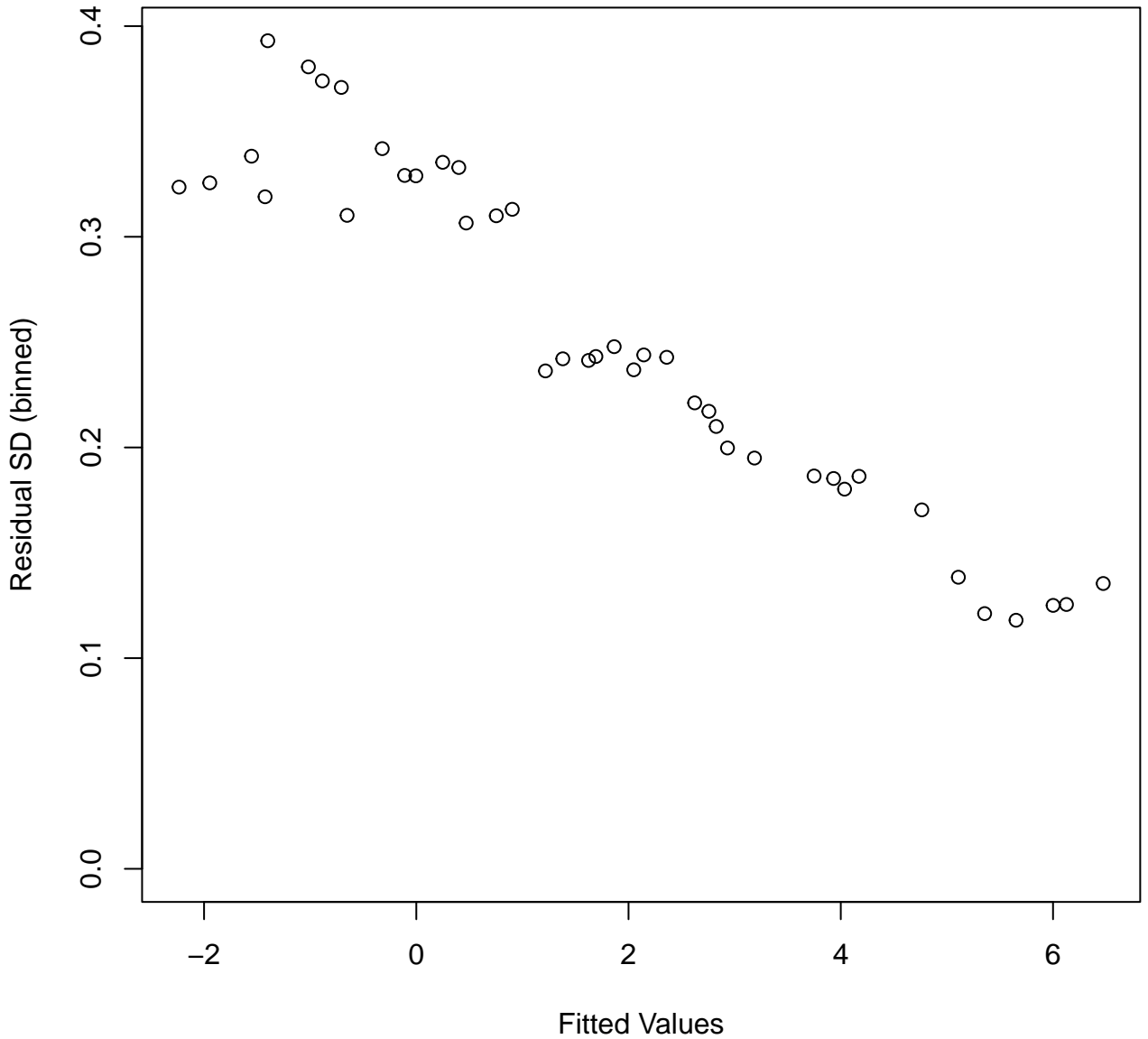


# Residuals & PP Residual vs. Fitted Values

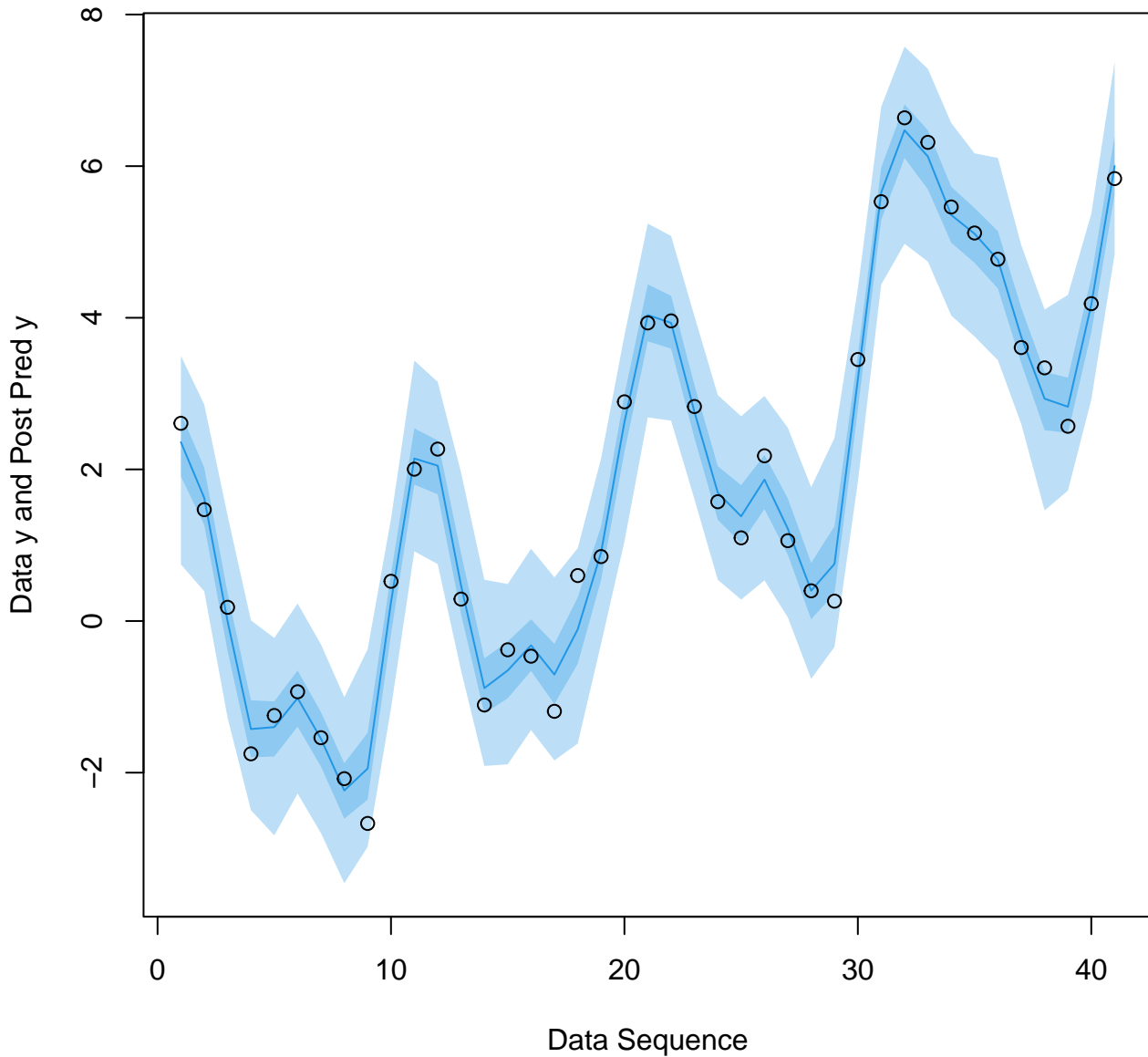




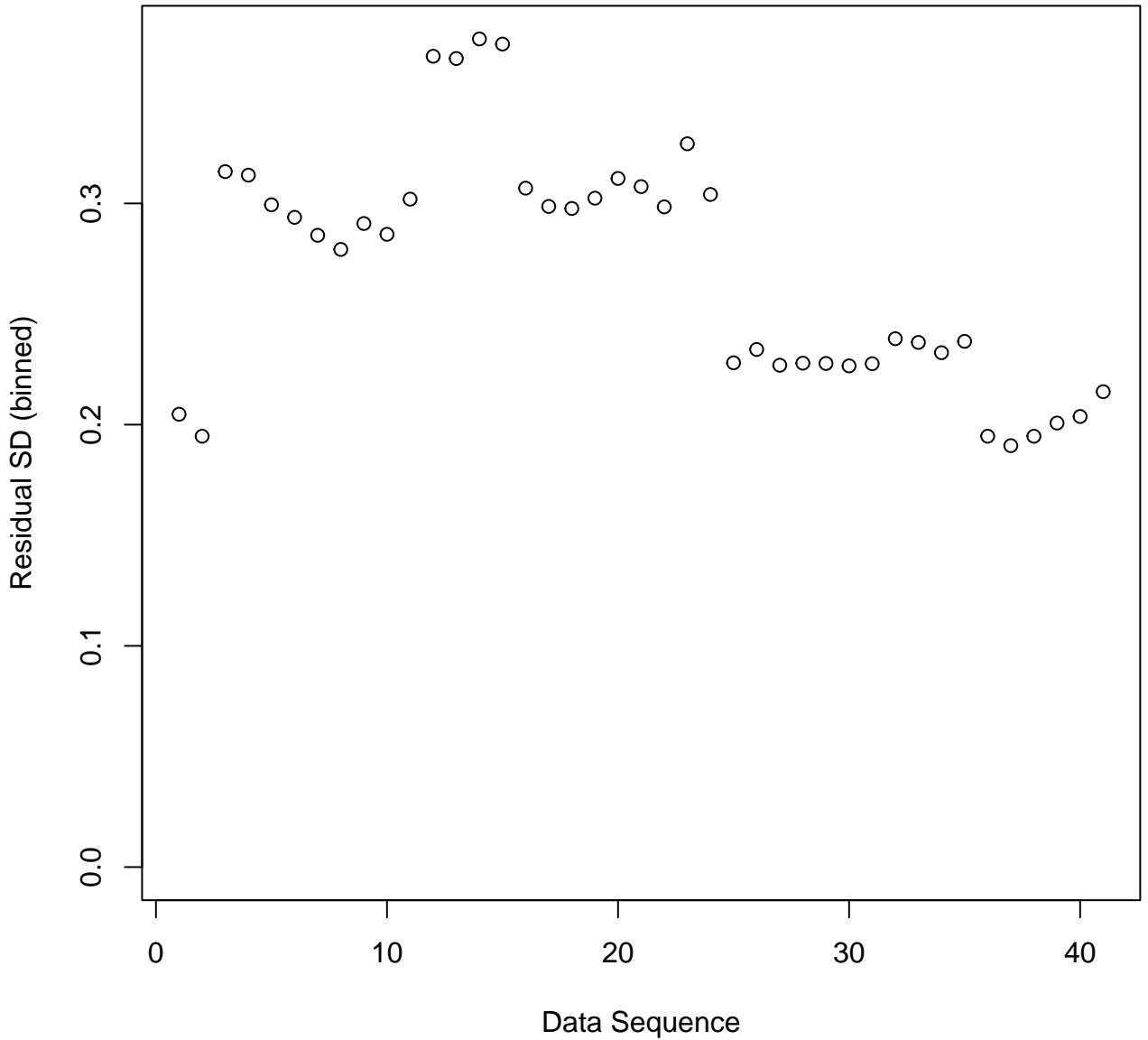
# Residual SD vs. Fitted Values



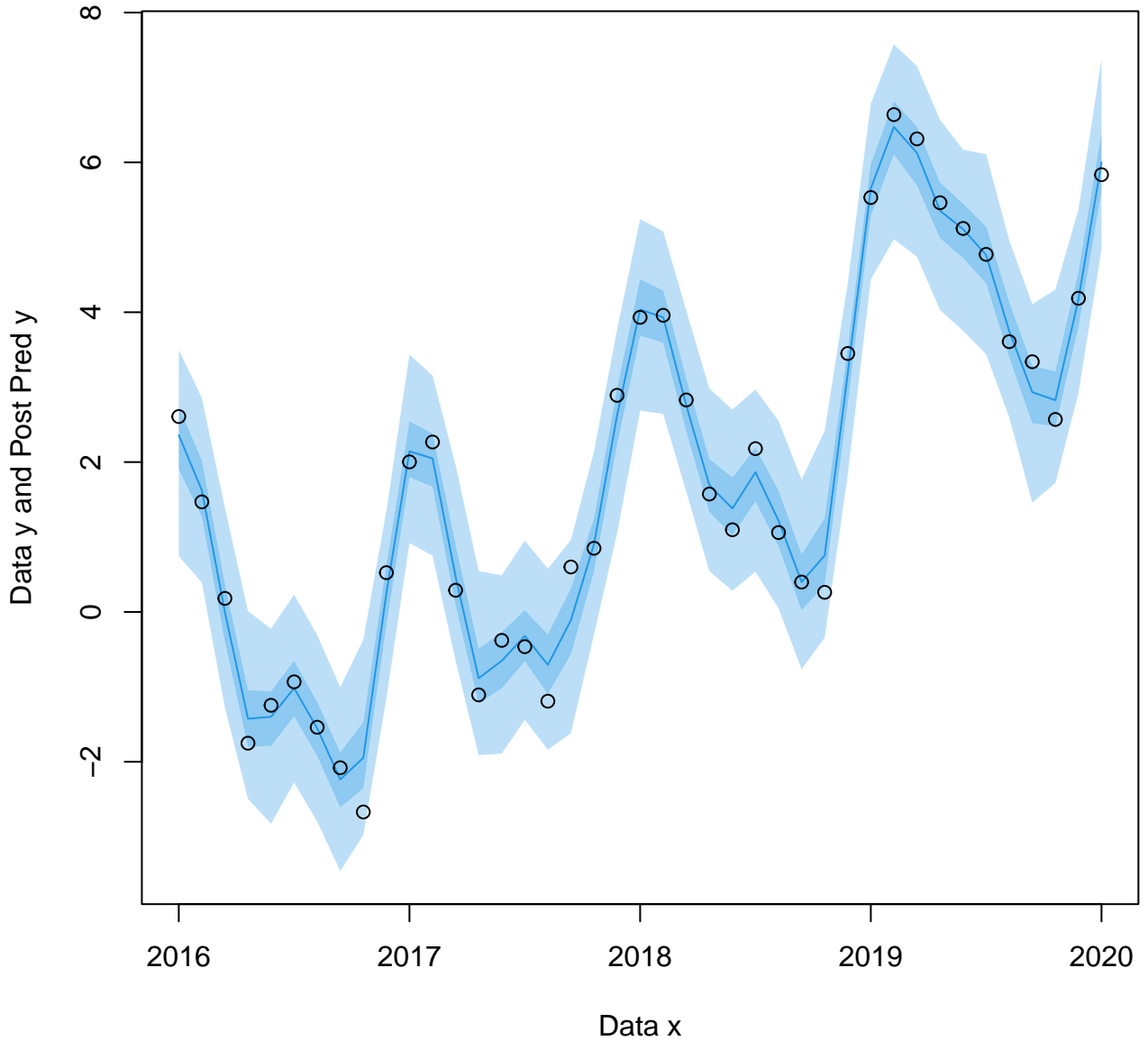
**Data y & Post Pred y  
vs. Data Sequence**



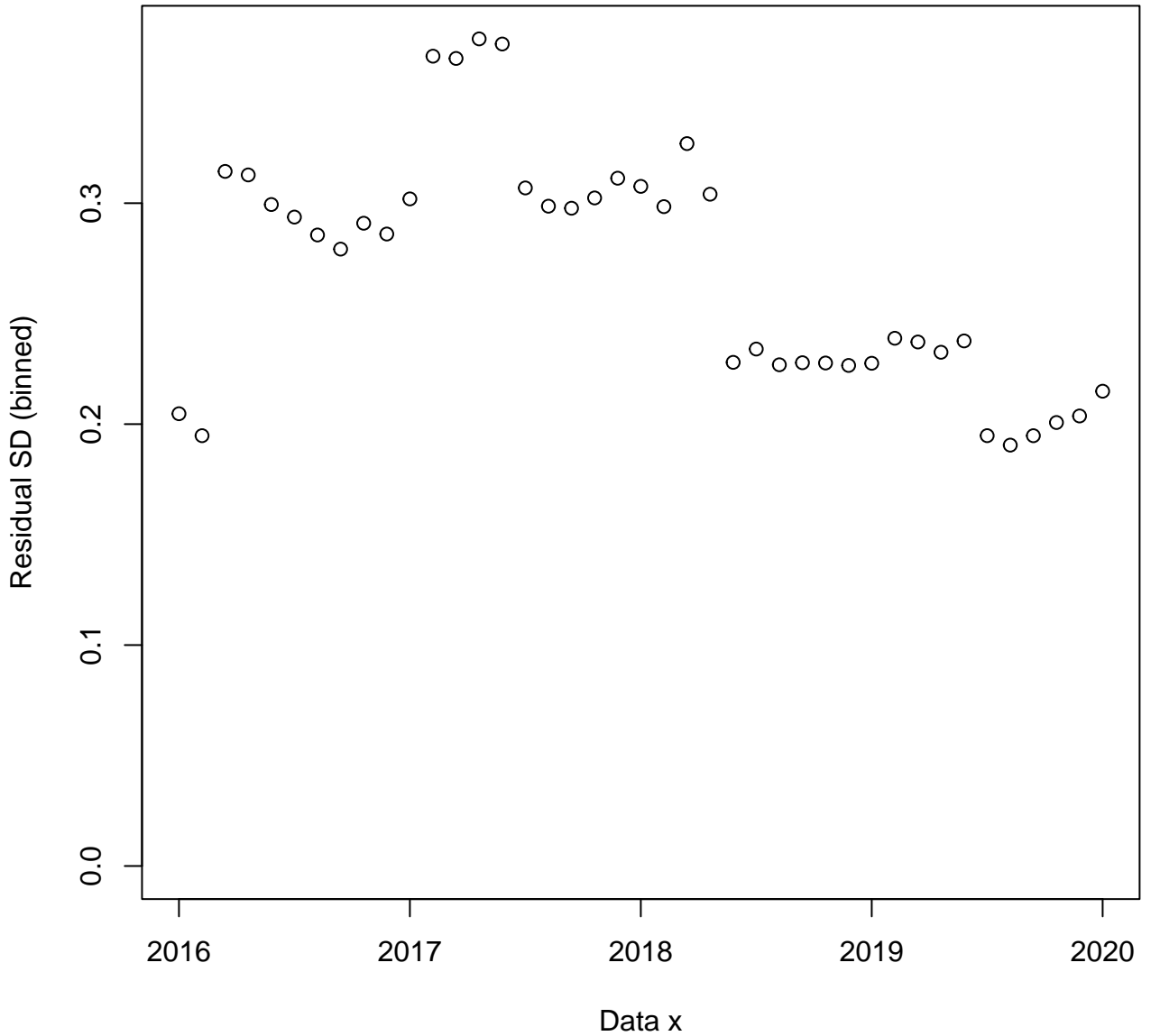
# Residual SD vs. Data Sequence



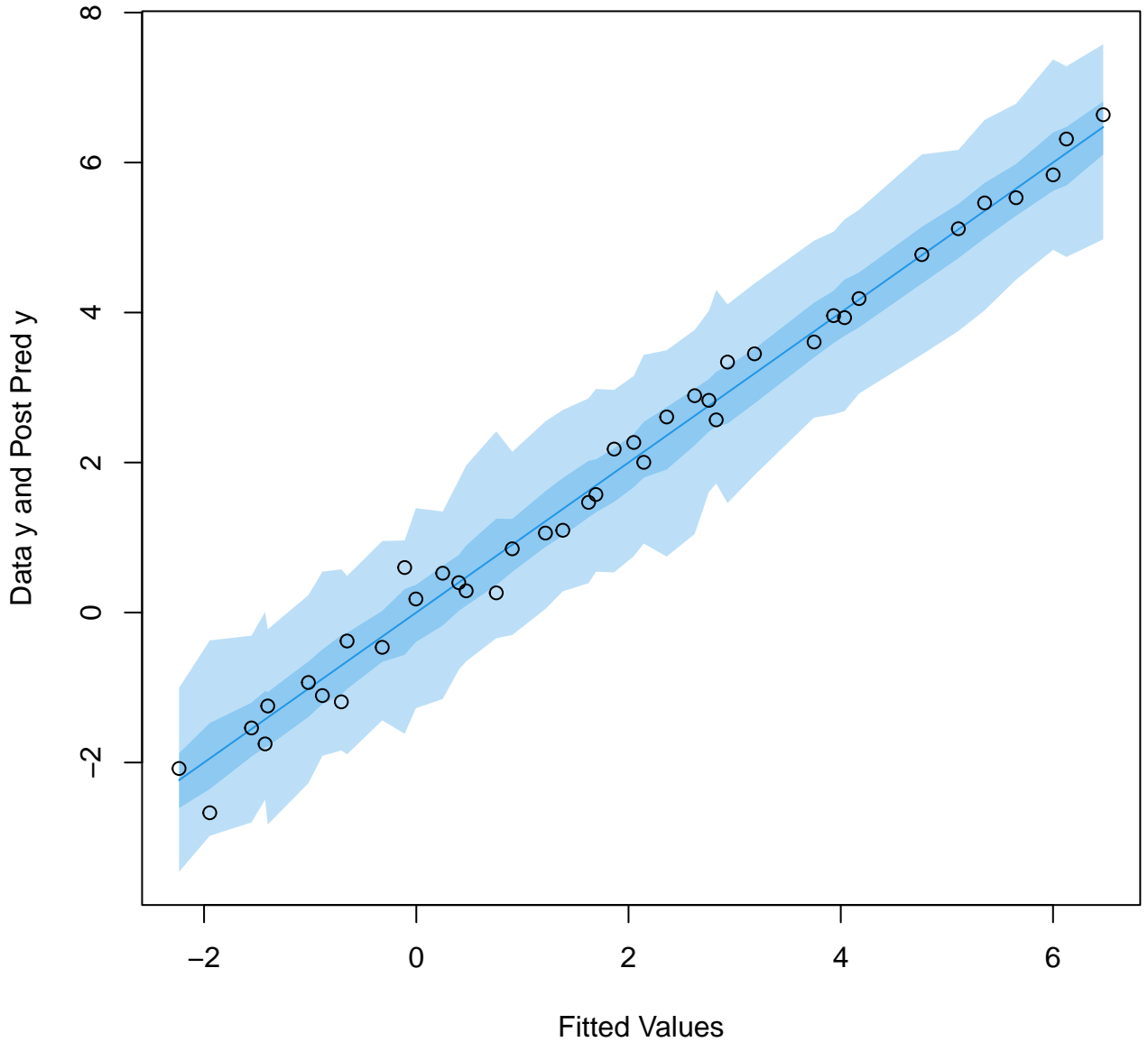
# Data y & Post Pred y vs. Data x



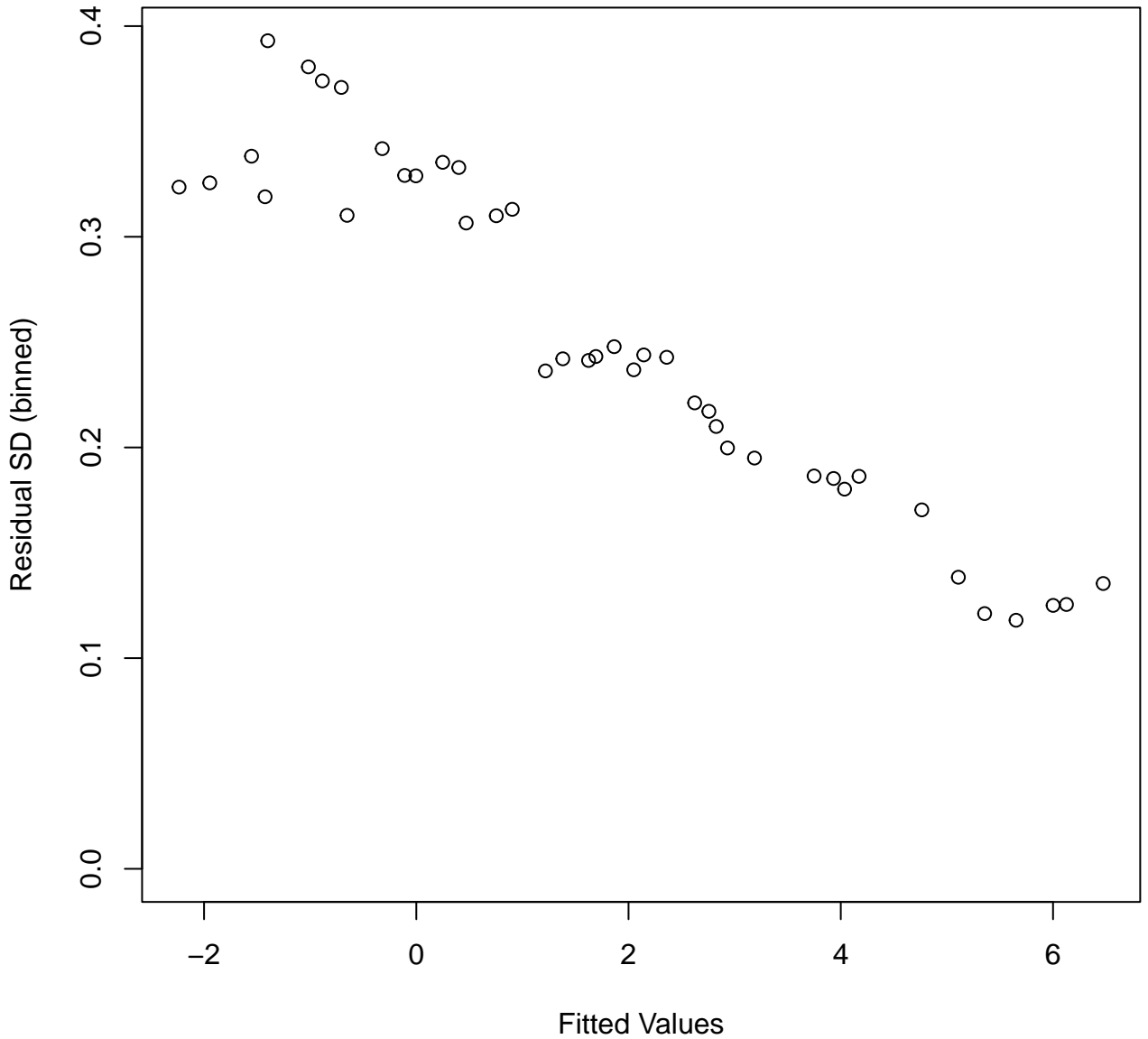
# Residual SD vs. Data x



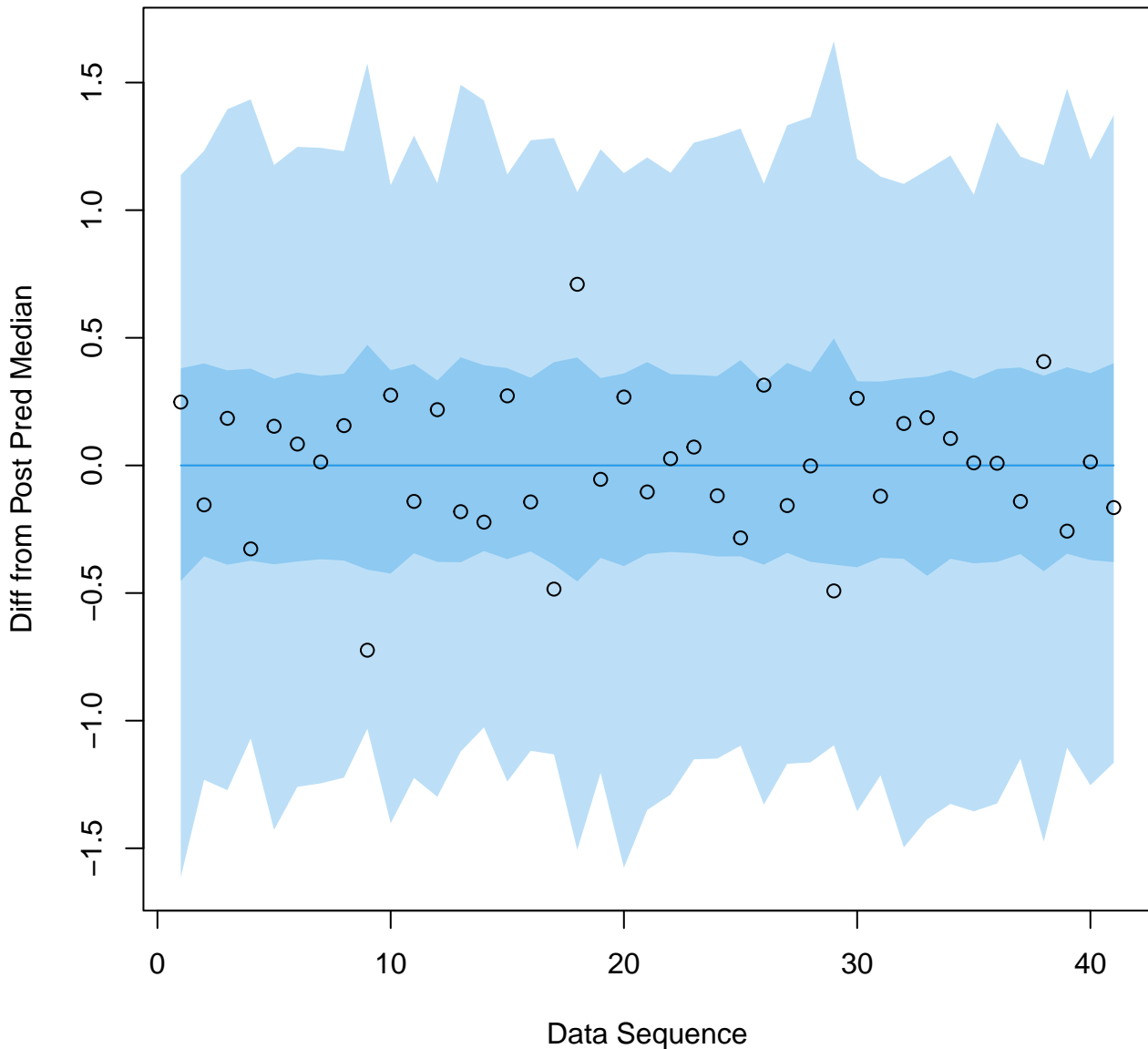
# Data y & Post Pred y vs. Fitted Values



# Residual SD vs. Fitted Values

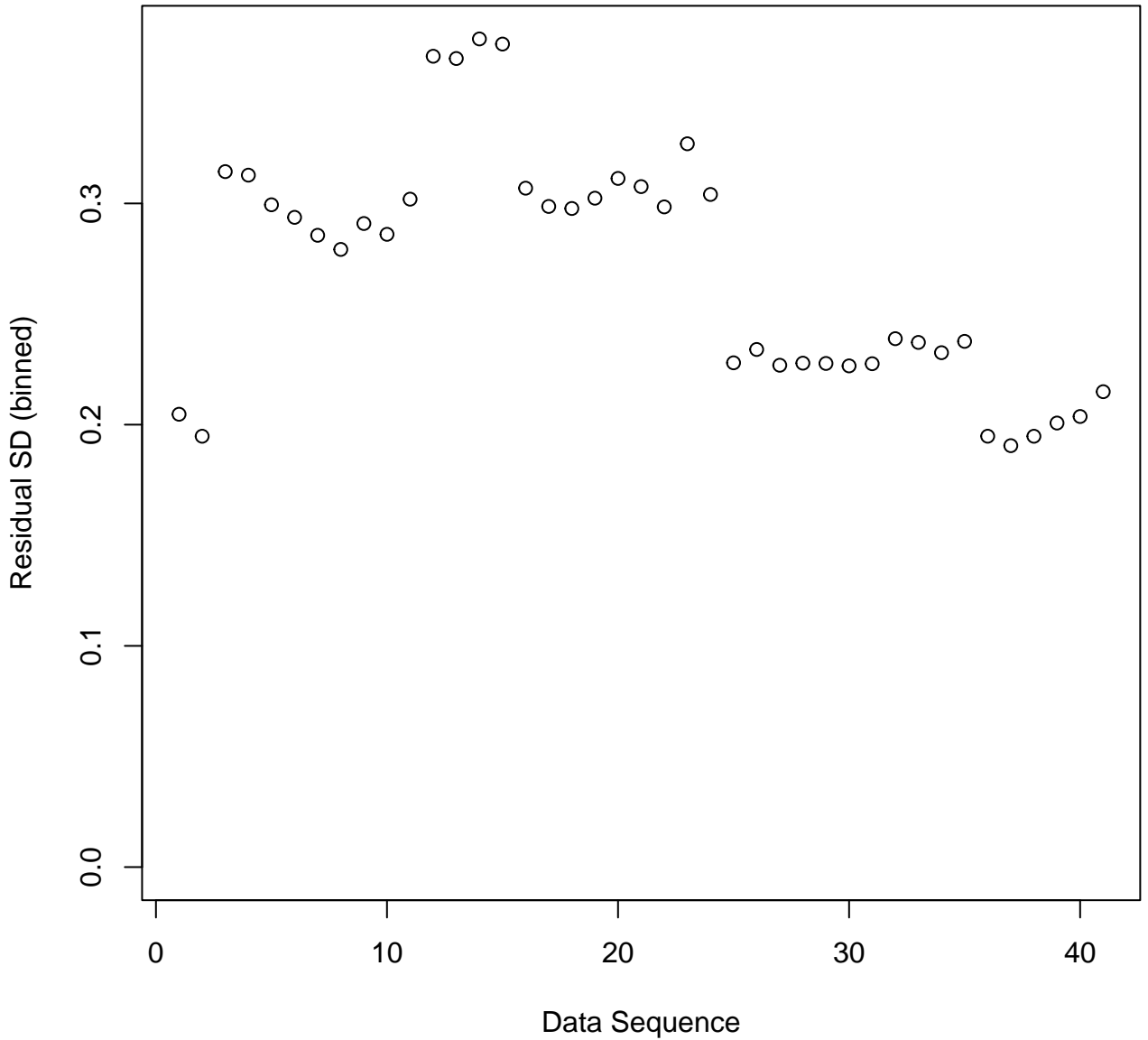


# Residuals & PP Residual vs. Data Sequence



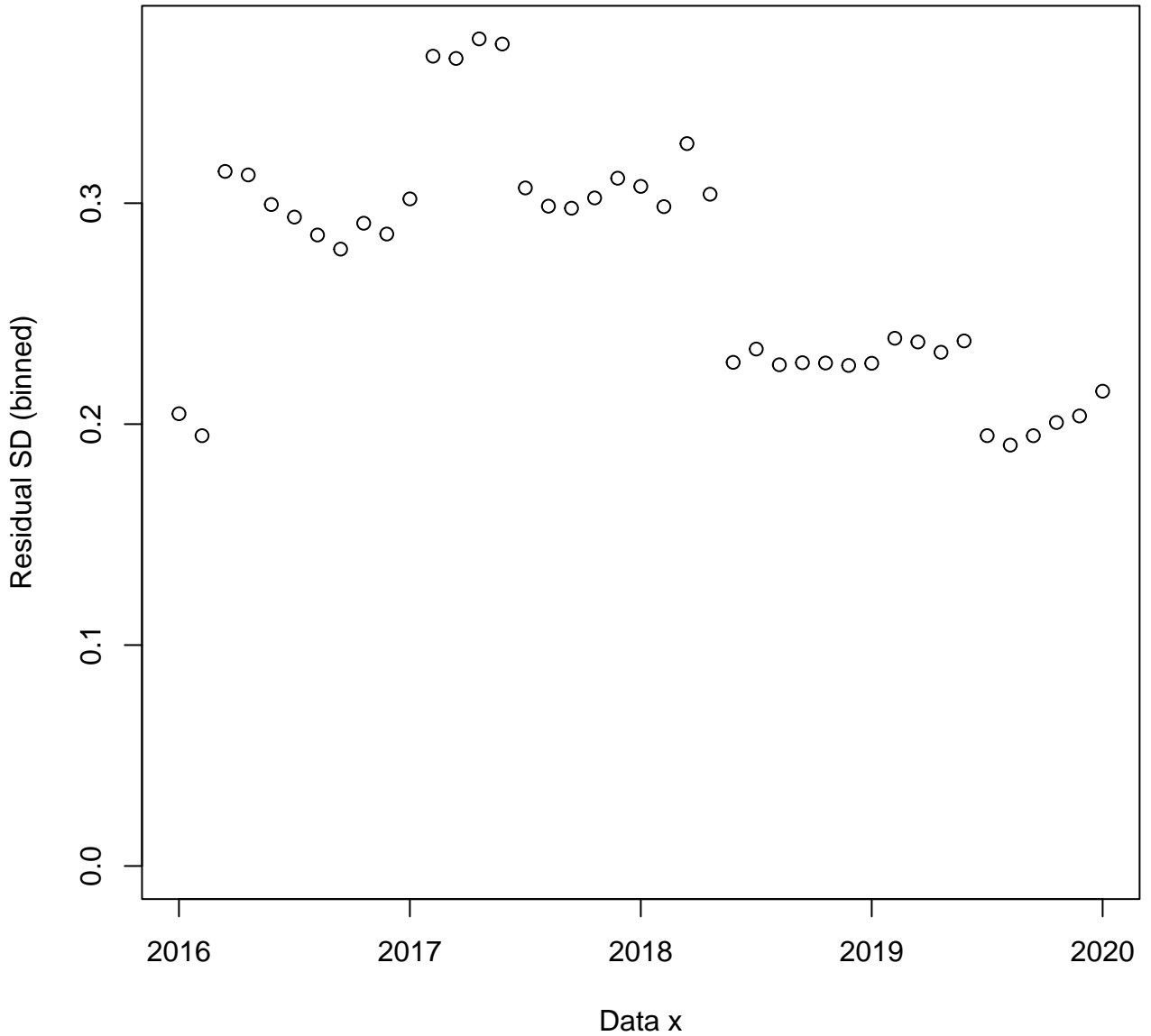


# Residual SD vs. Data Sequence

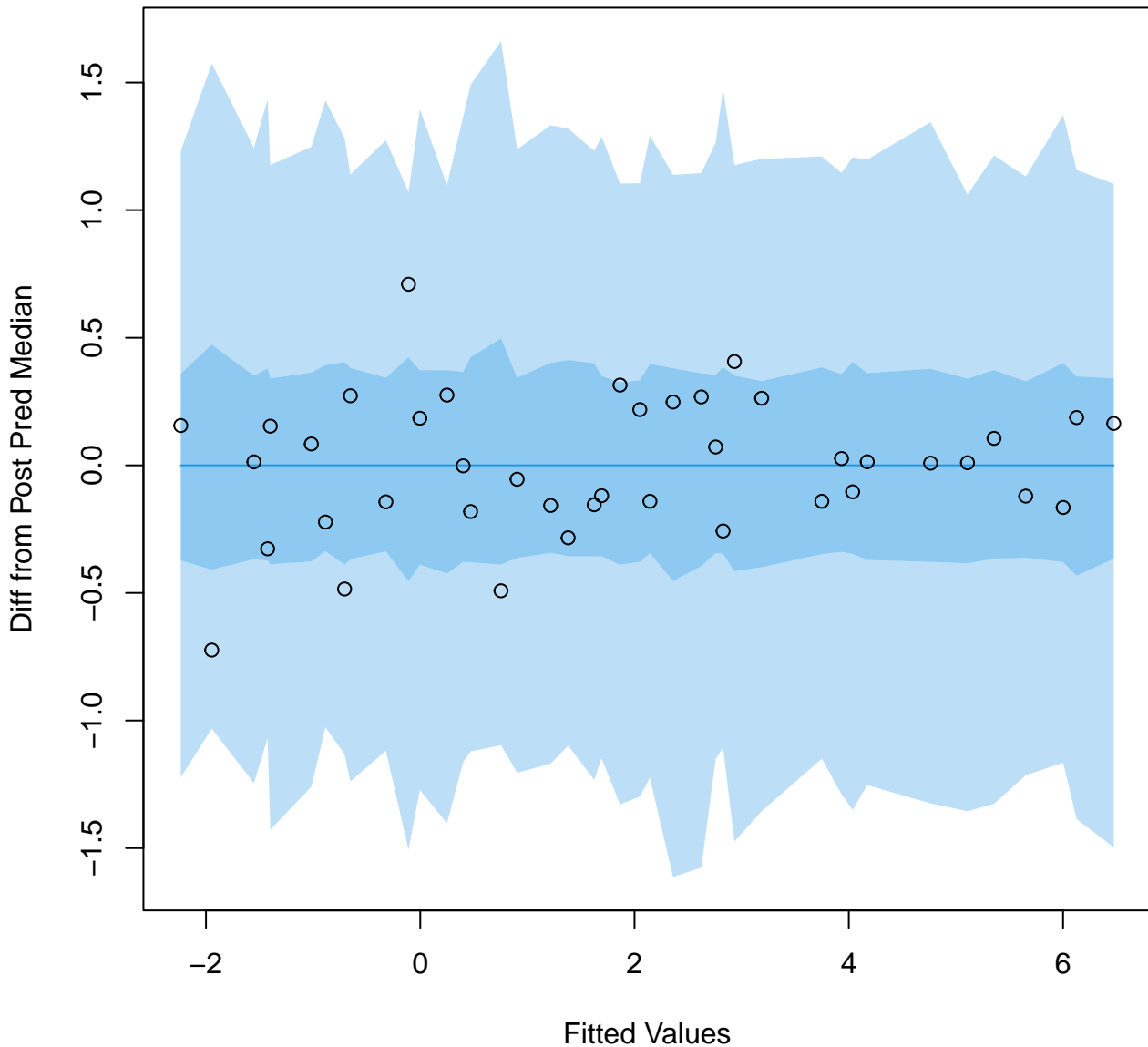




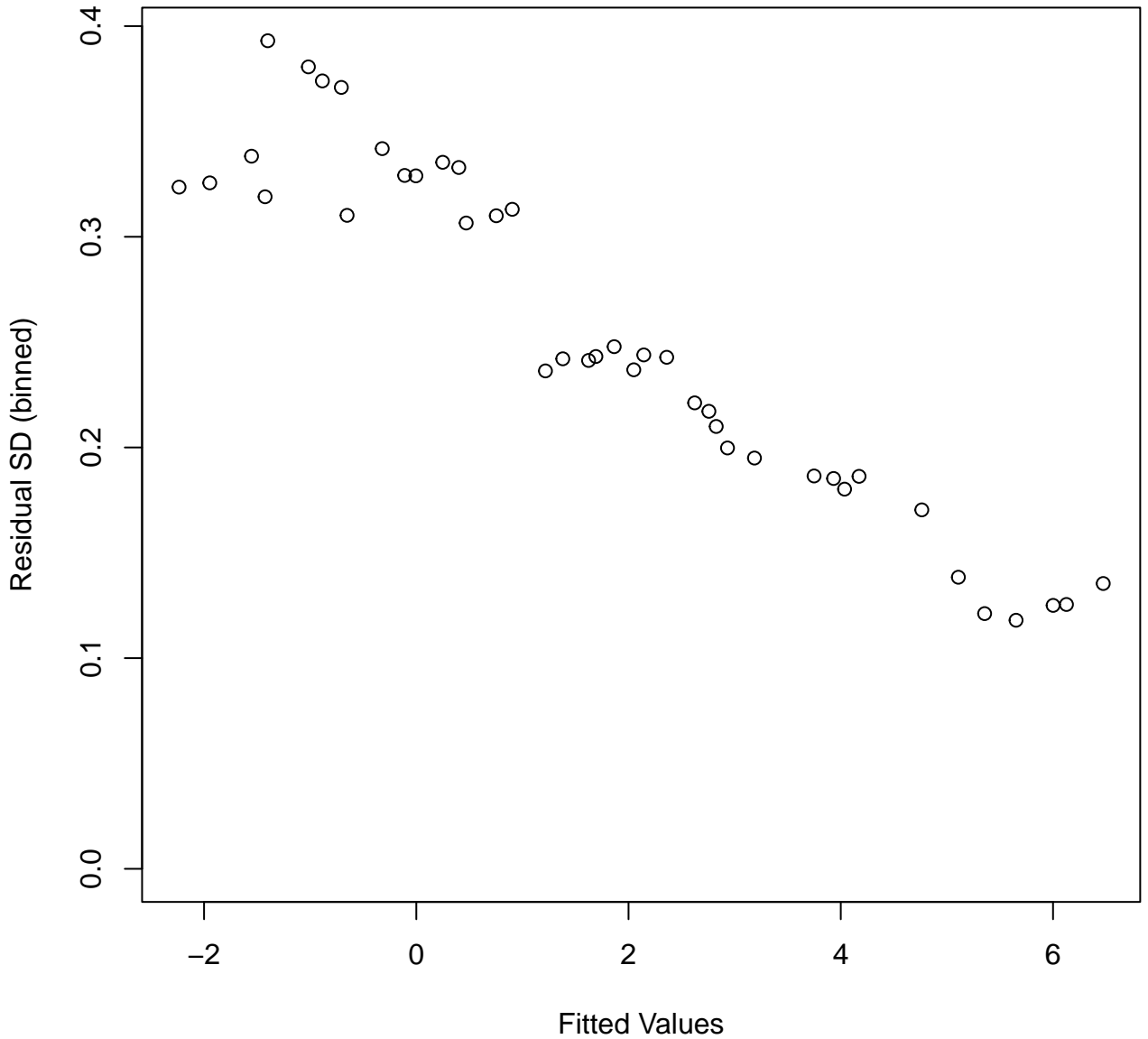
# Residual SD vs. Data x



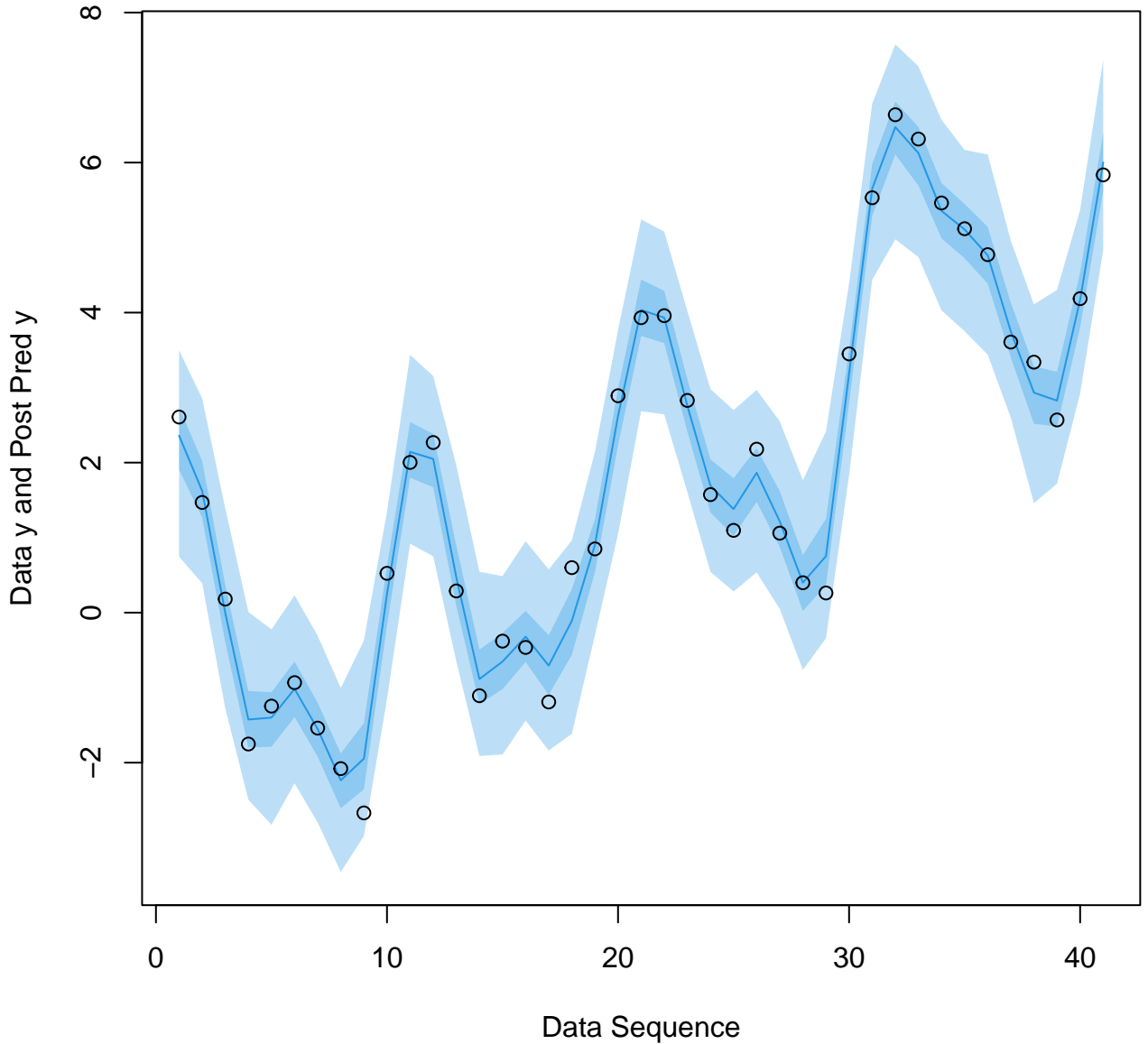
# Residuals & PP Residual vs. Fitted Values



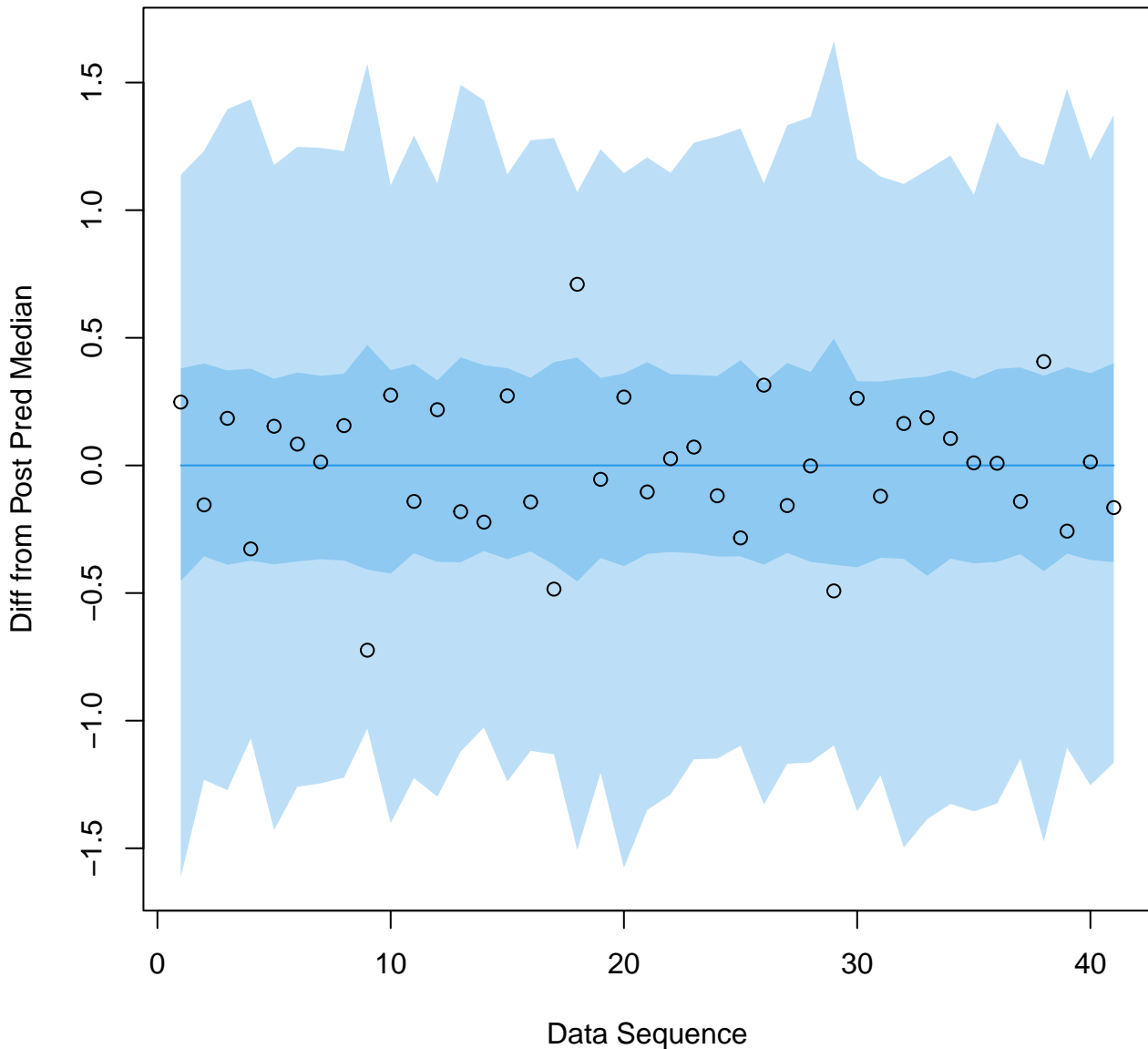
# Residual SD vs. Fitted Values



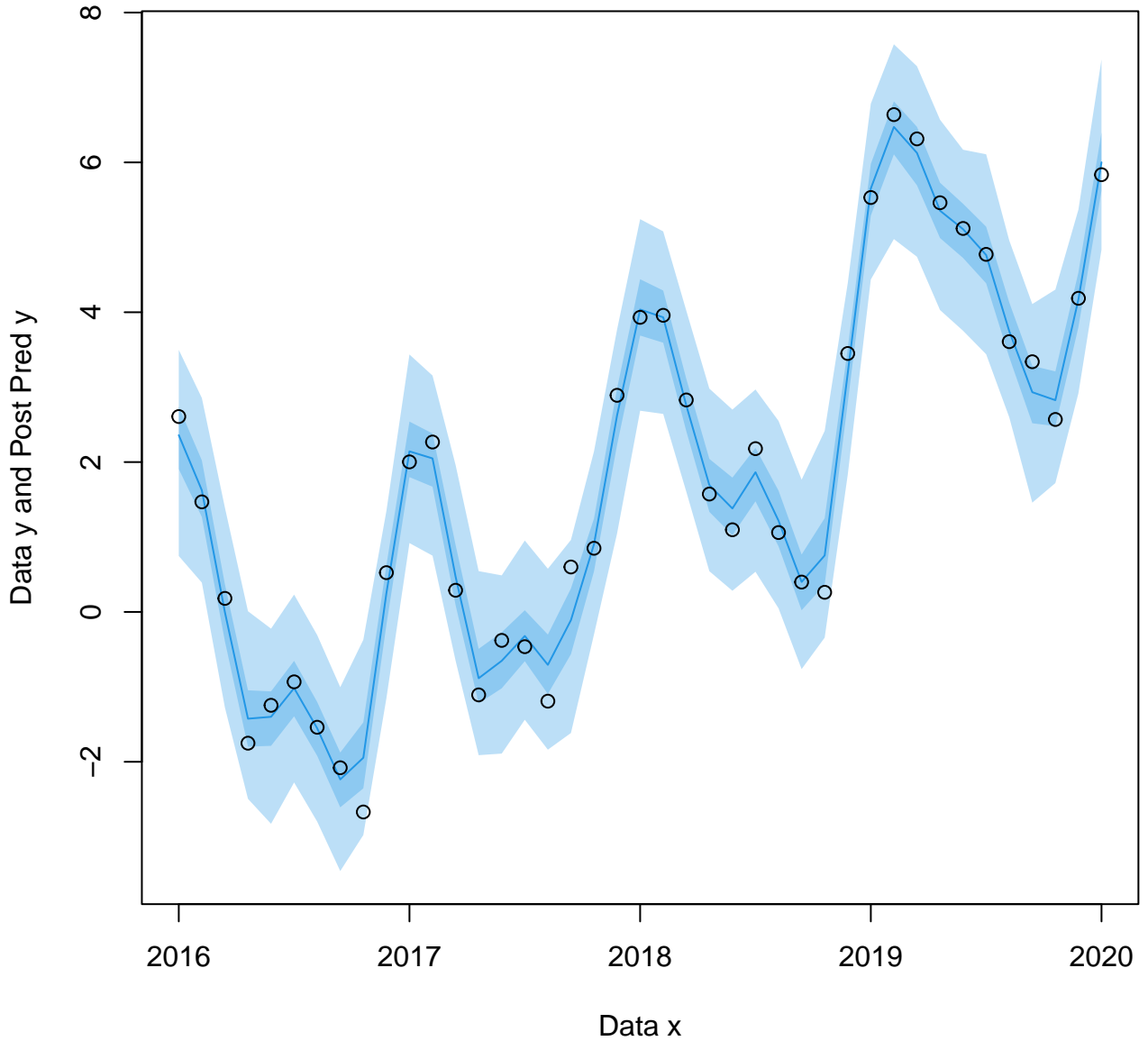
**Data y & Post Pred y  
vs. Data Sequence**



# Residuals & PP Residual vs. Data Sequence



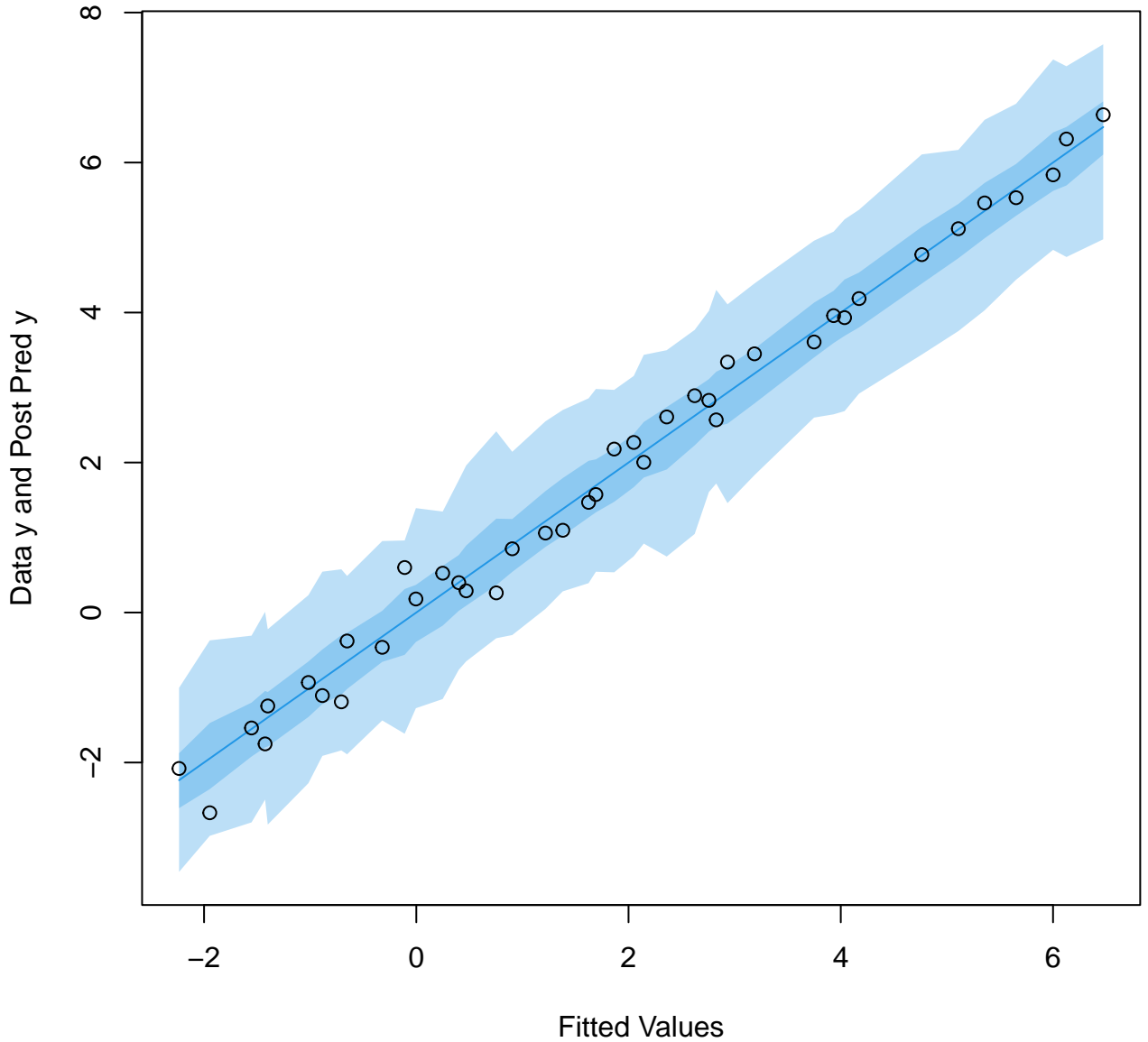
# Data y & Post Pred y vs. Data x



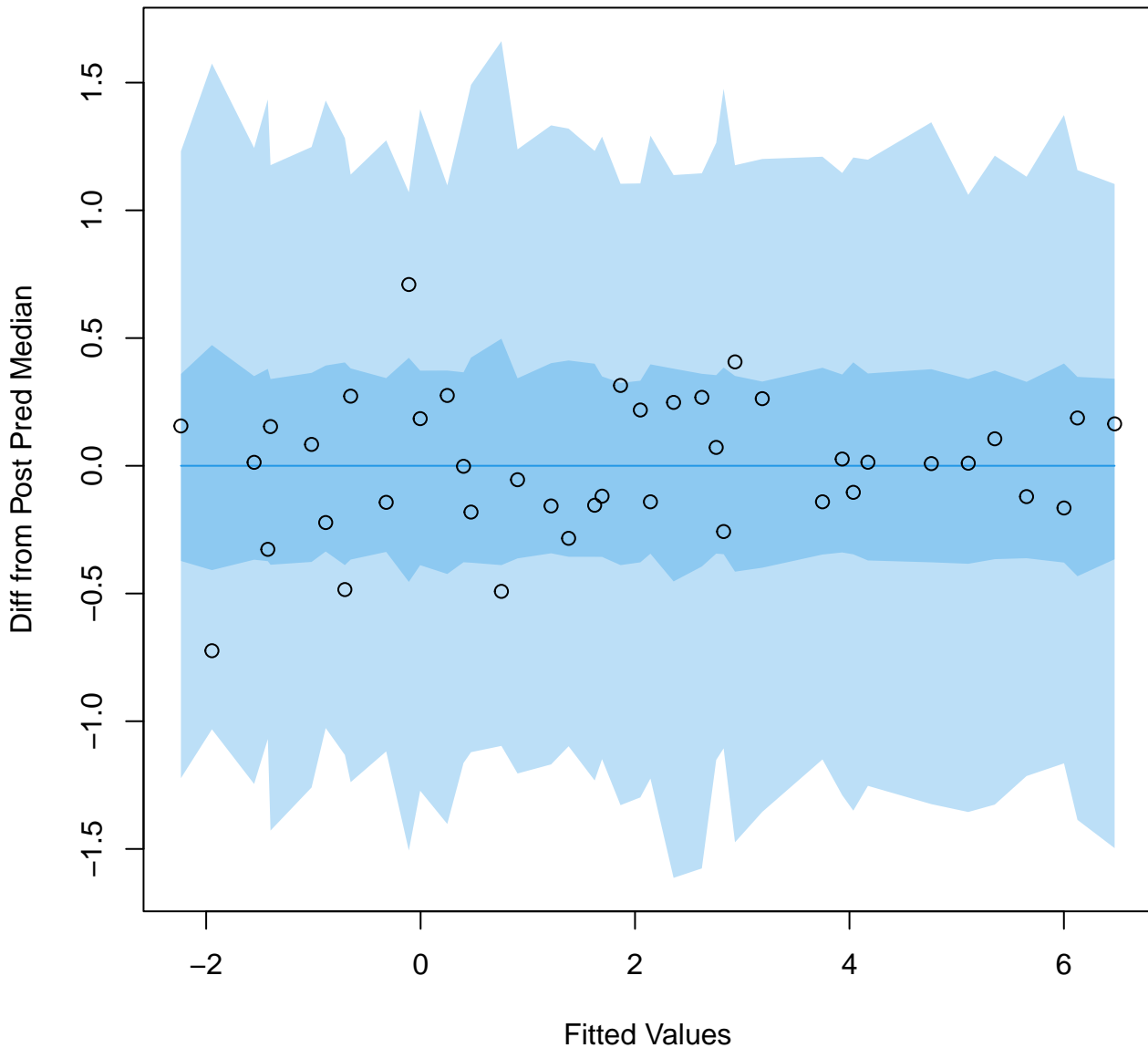




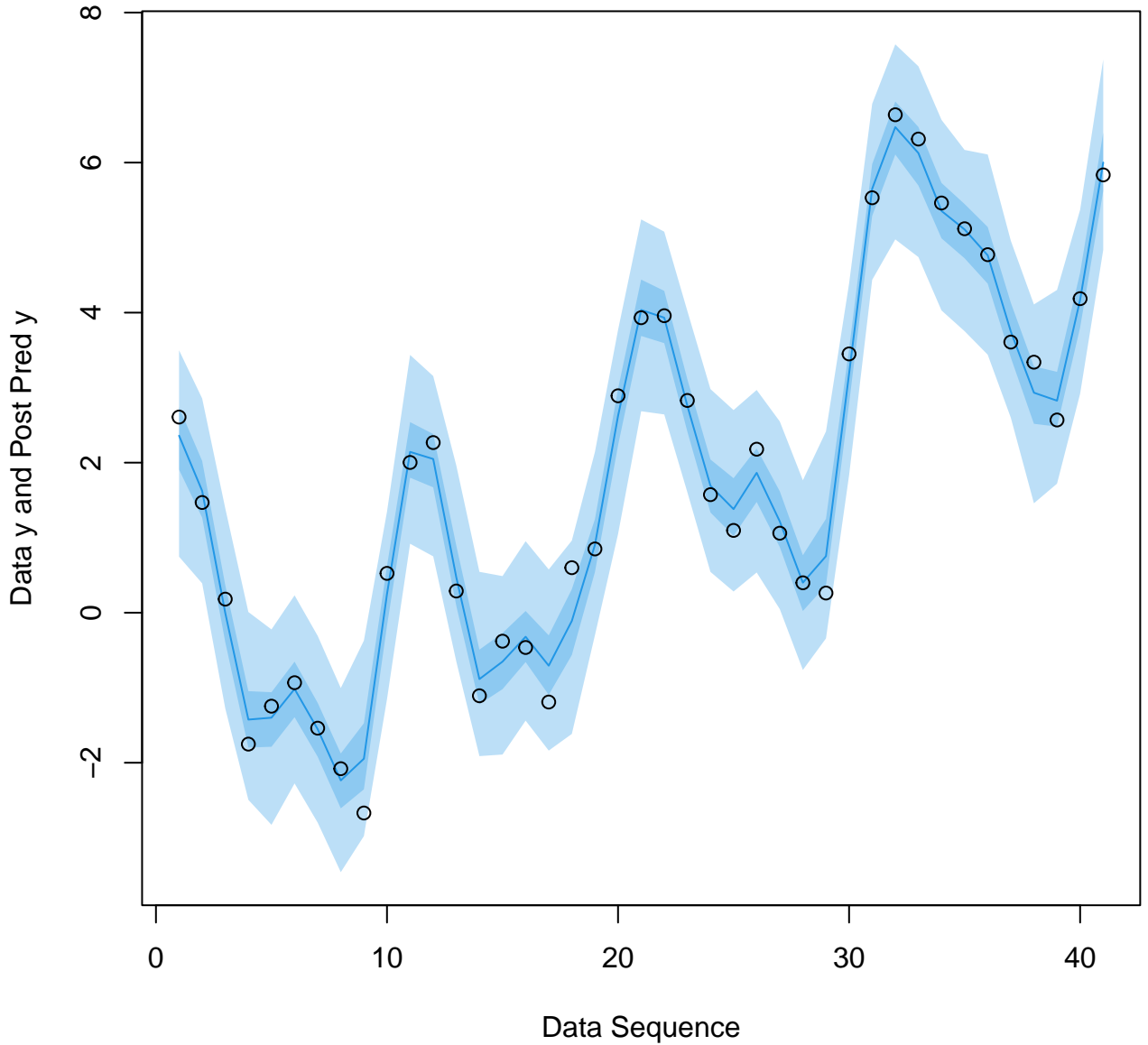
# Data y & Post Pred y vs. Fitted Values



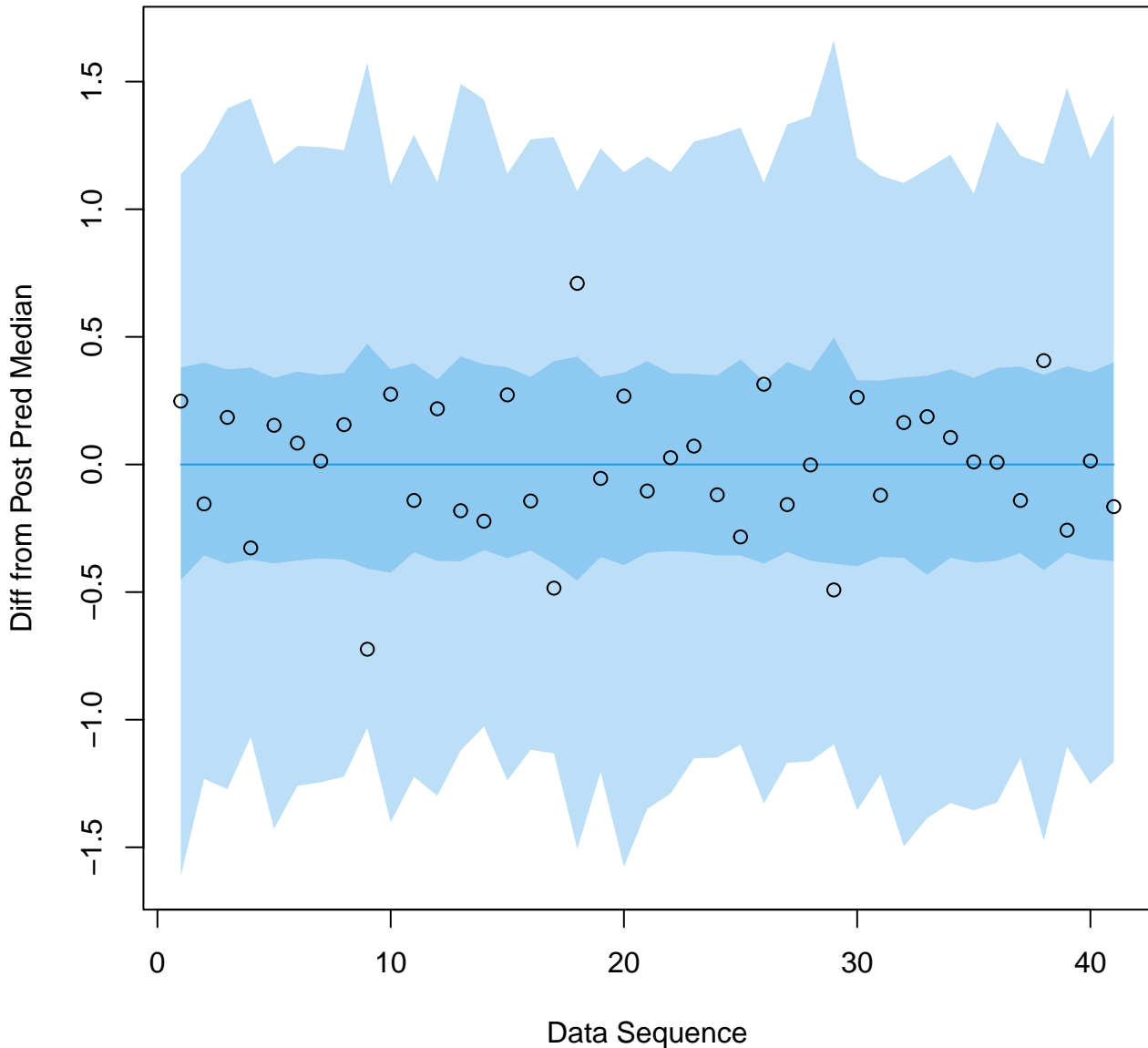
# Residuals & PP Residual vs. Fitted Values



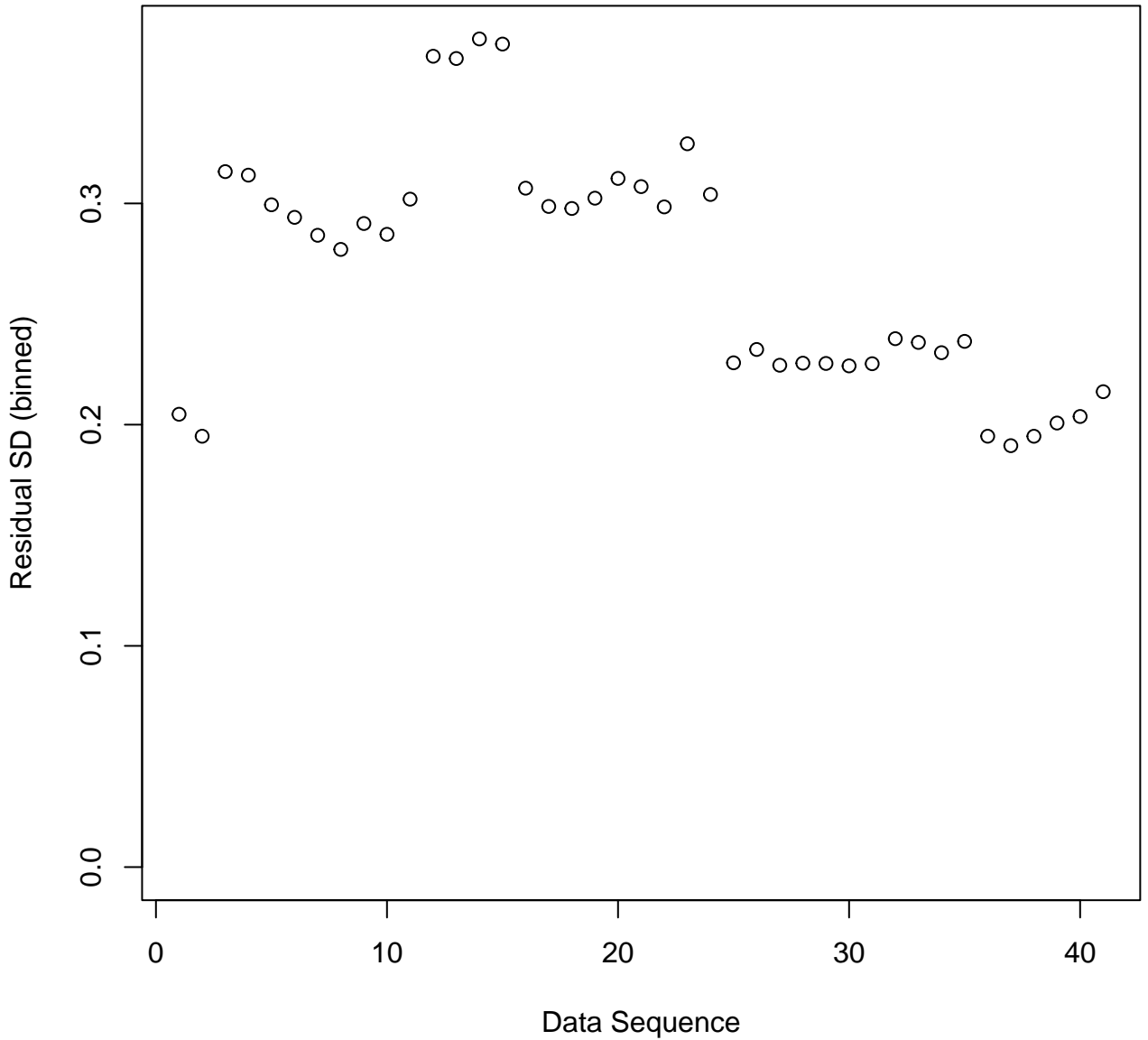
**Data y & Post Pred y  
vs. Data Sequence**



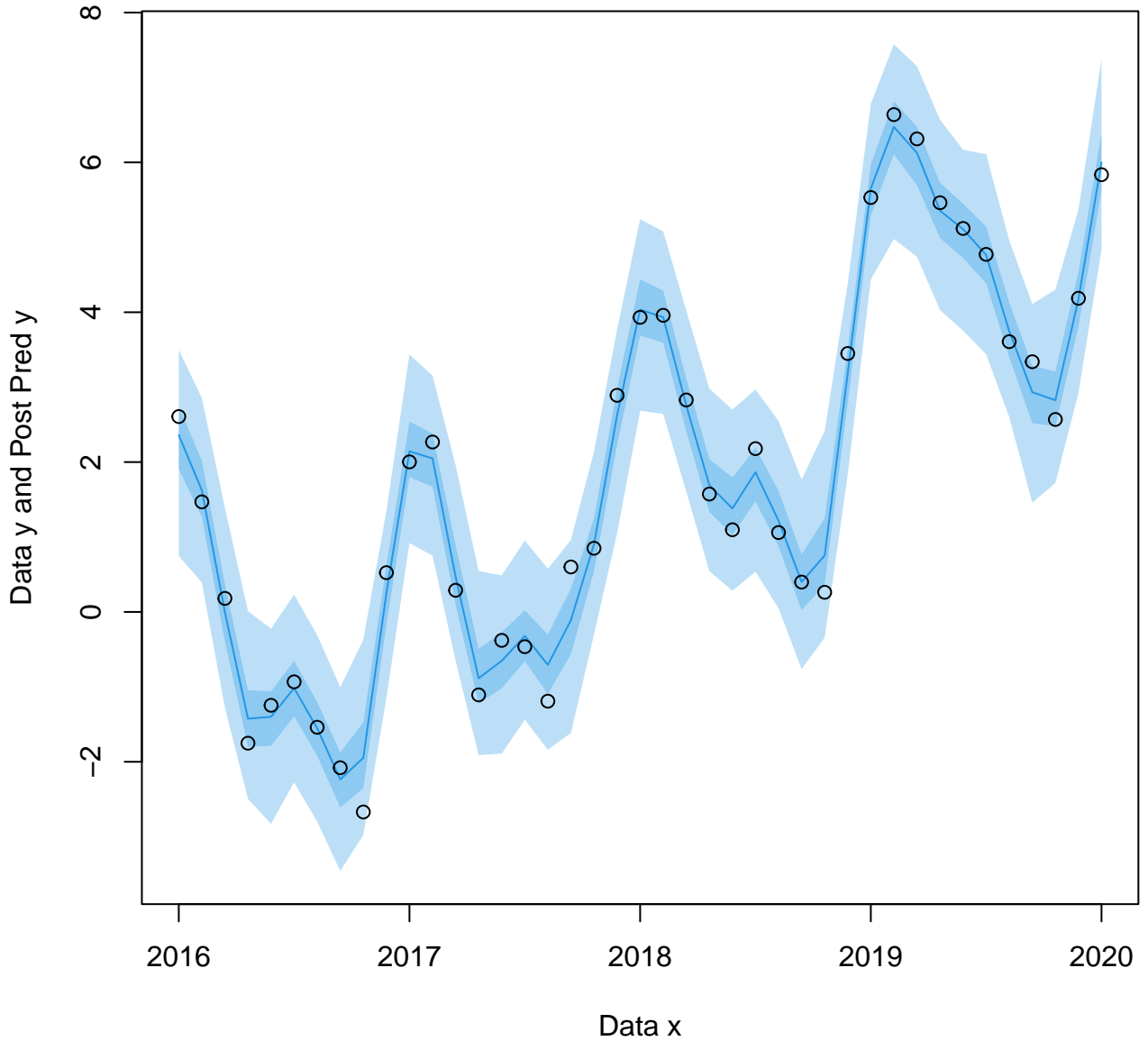
# Residuals & PP Residual vs. Data Sequence



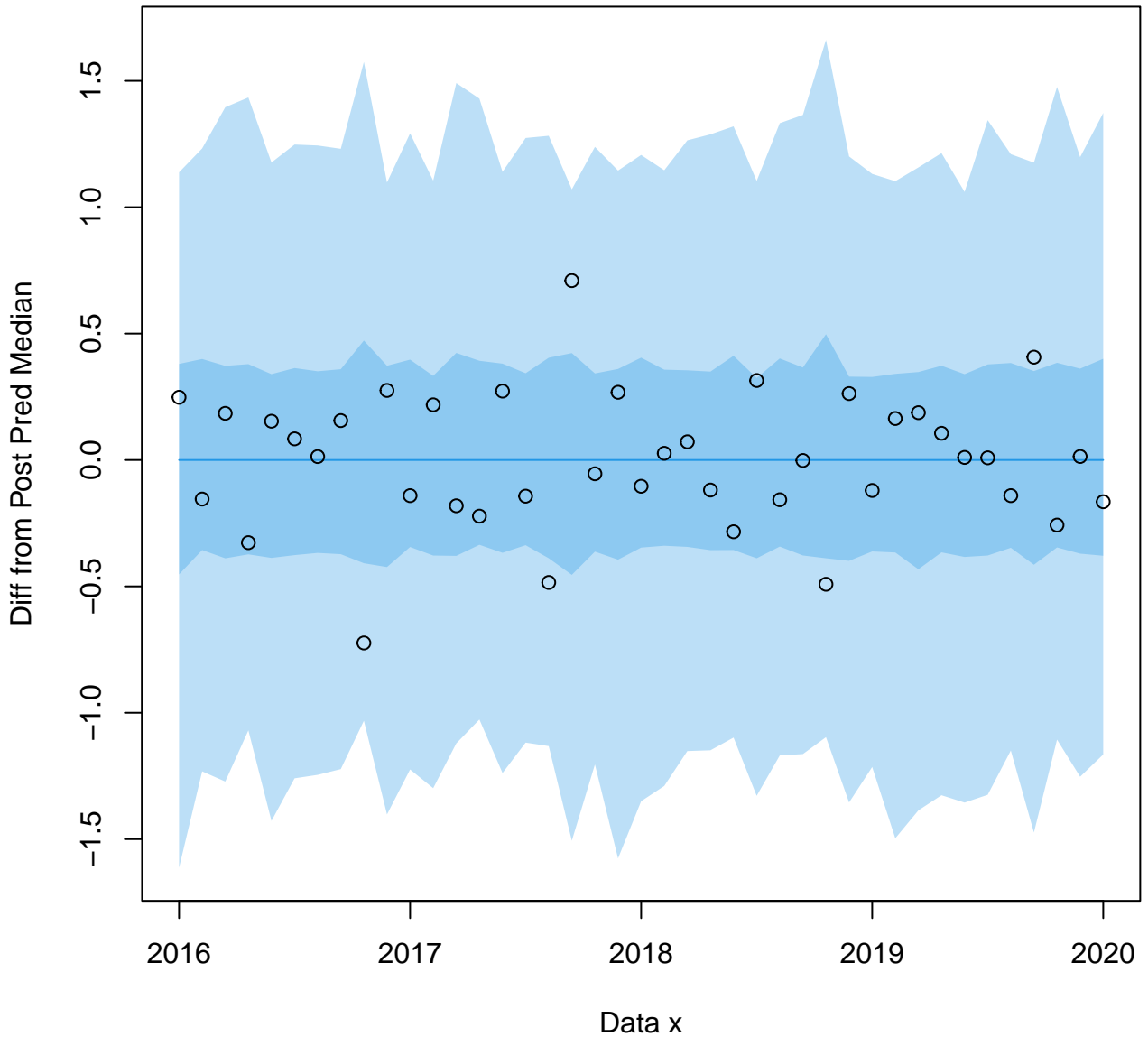
# Residual SD vs. Data Sequence



# Data y & Post Pred y vs. Data x

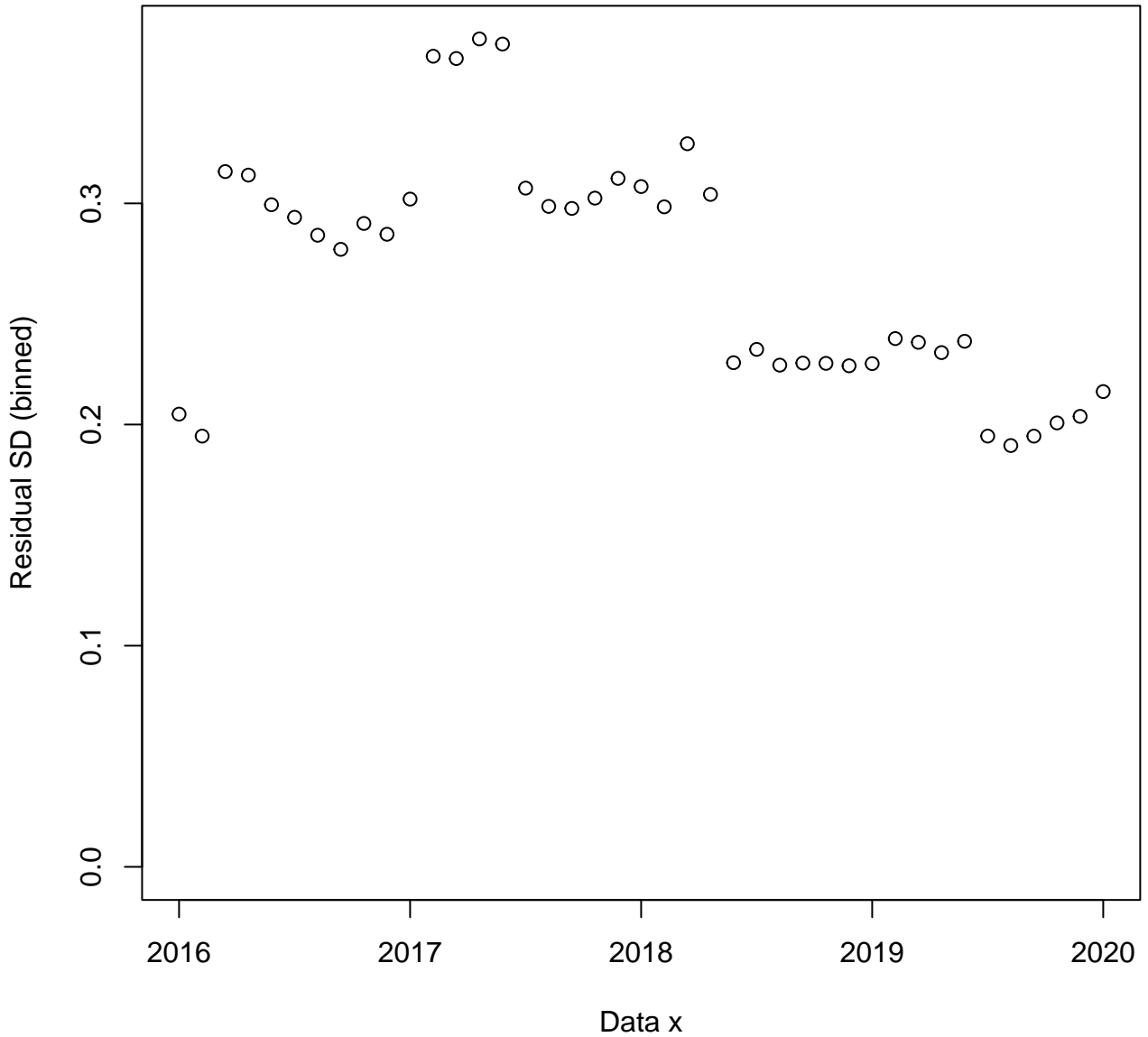


# Residuals & PP Residual vs. Data x

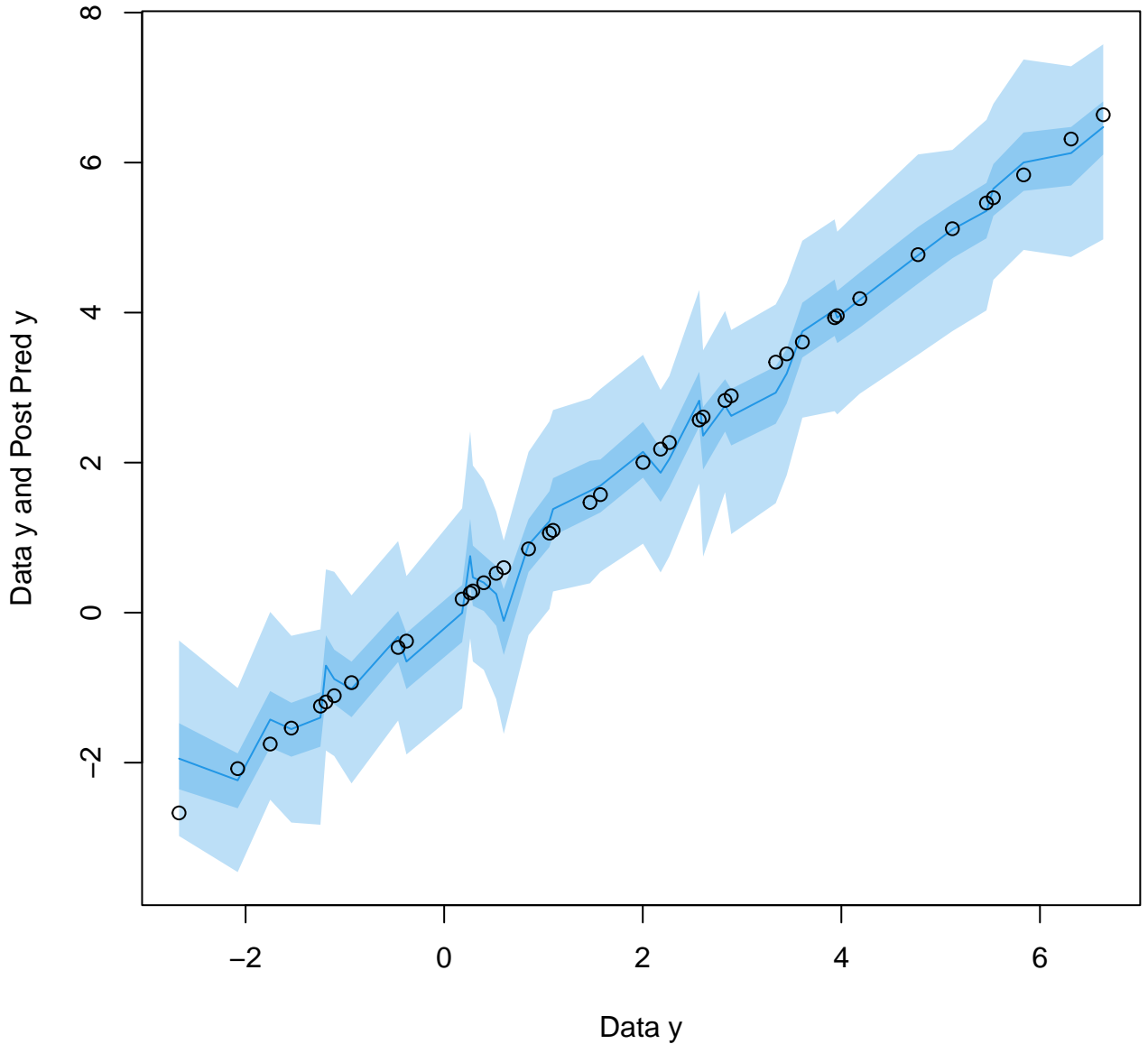




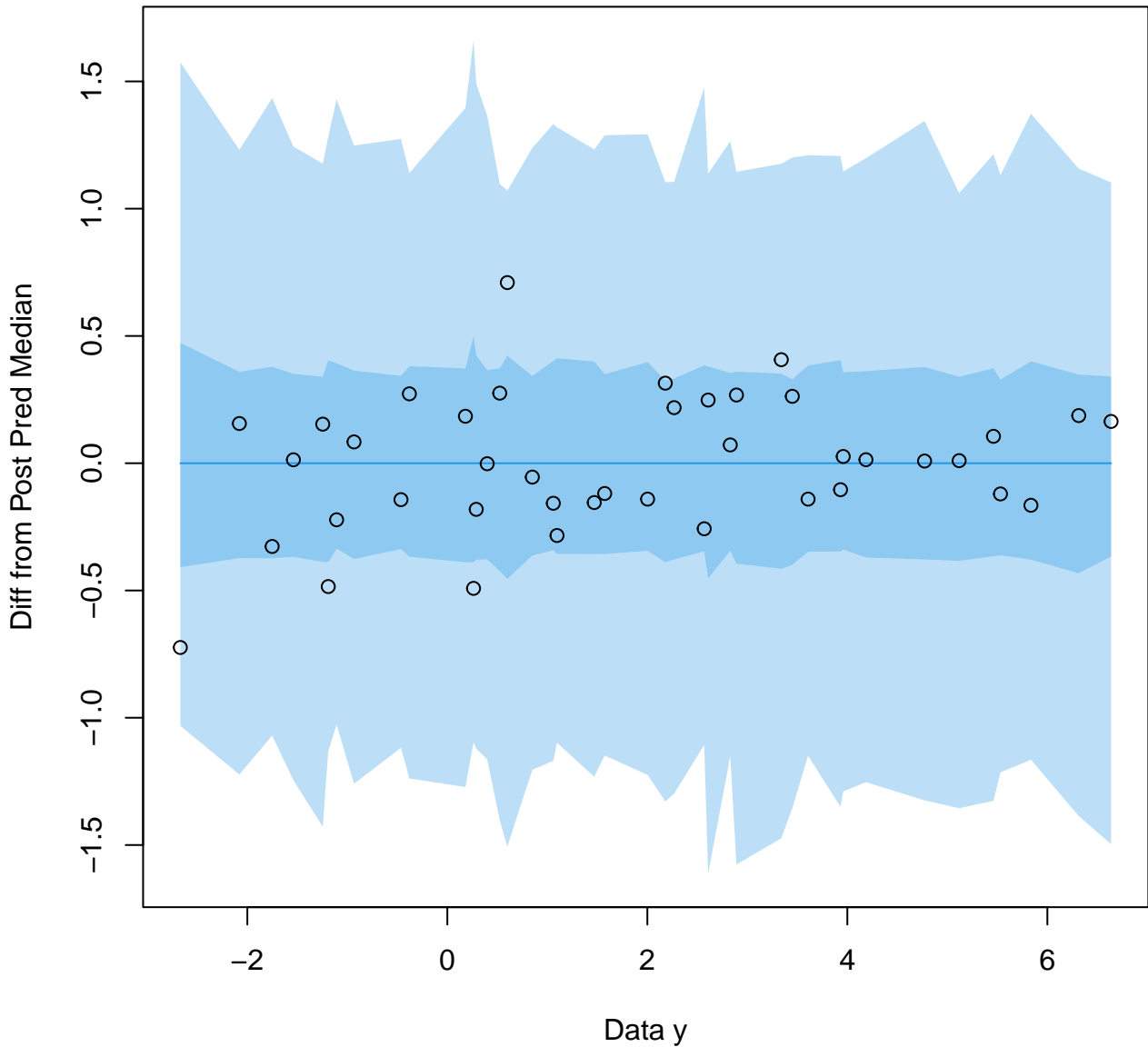
# Residual SD vs. Data x



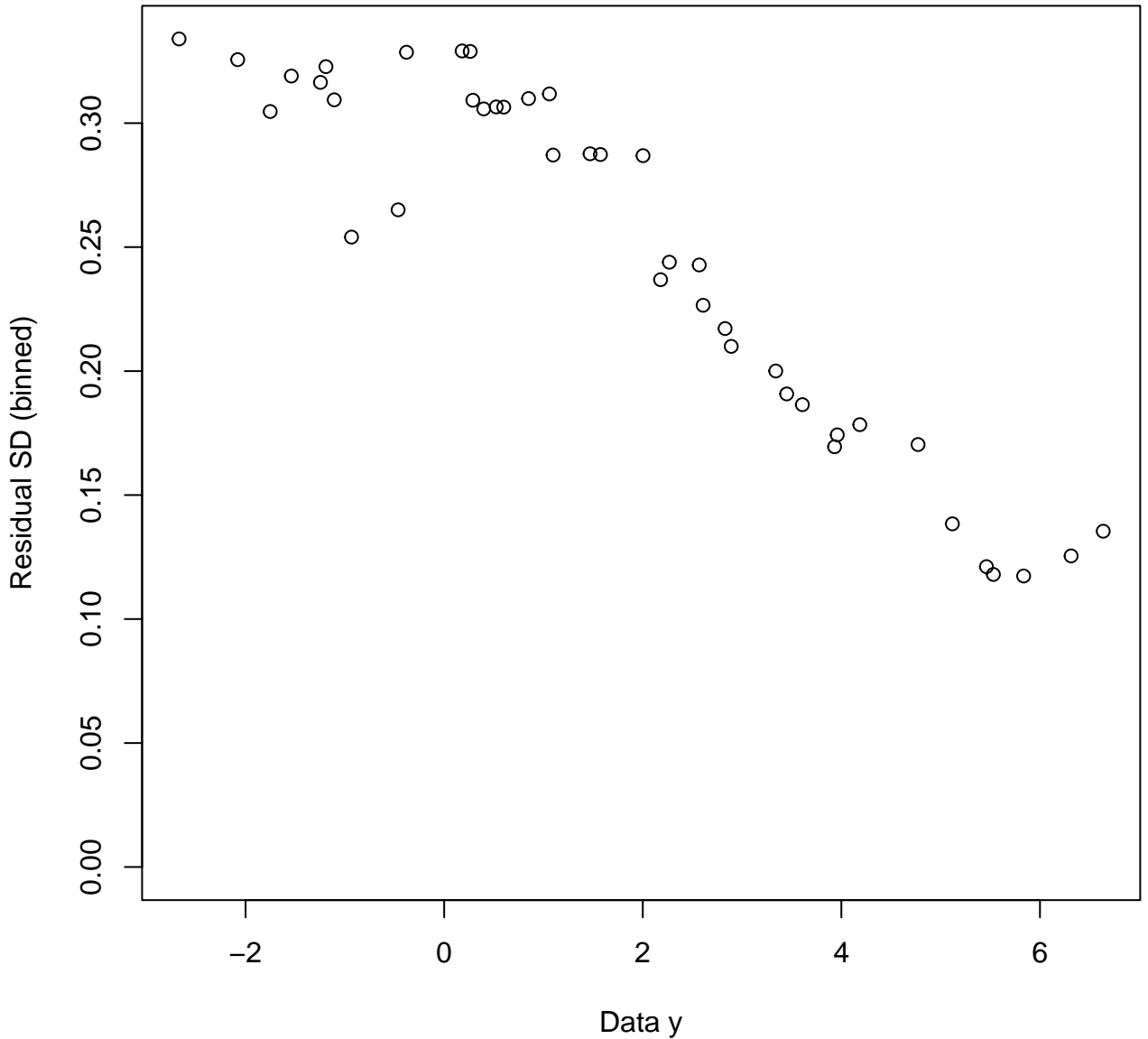
# Data y & Post Pred y vs. Data y



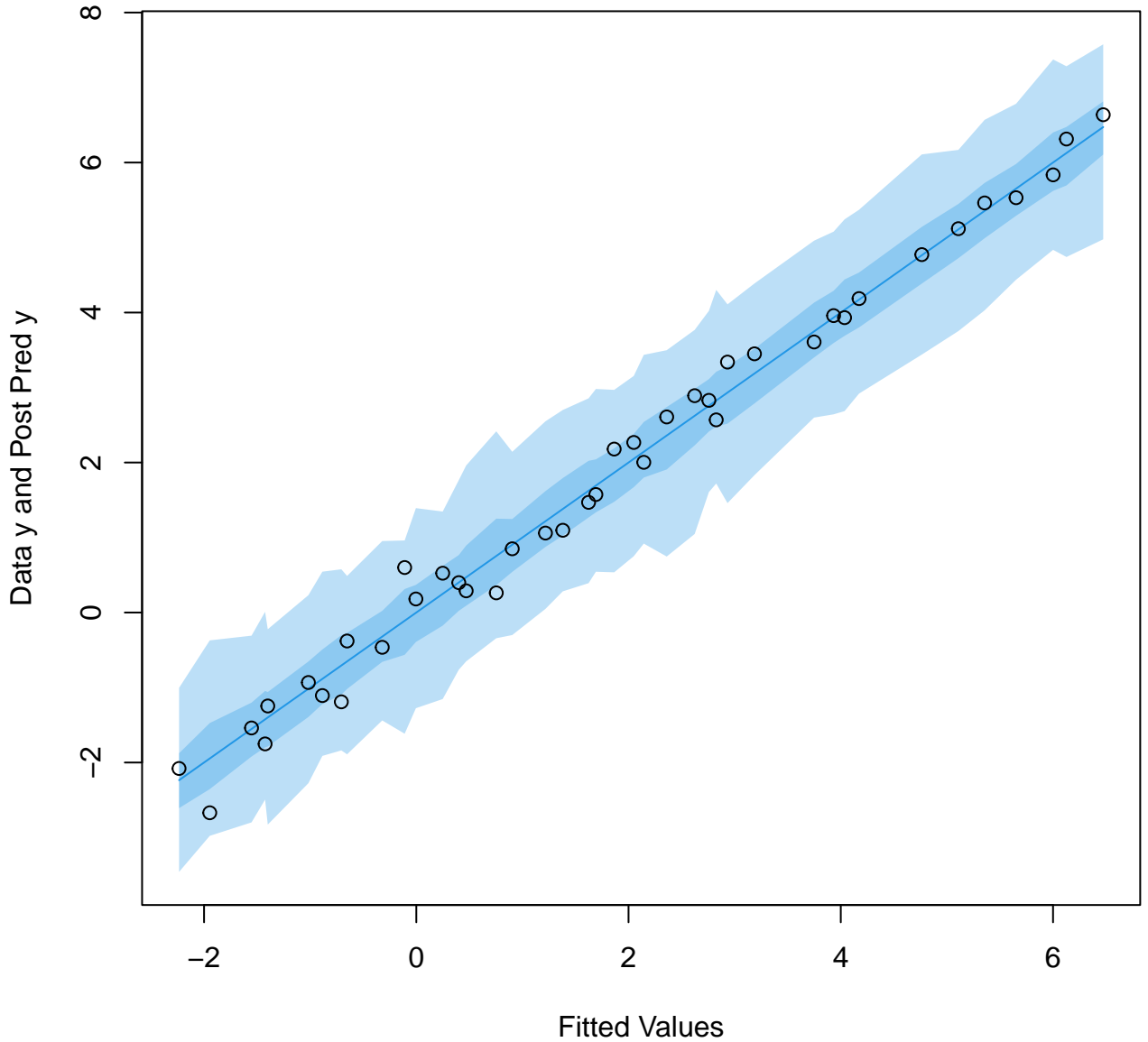
# Residuals & PP Residual vs. Data y



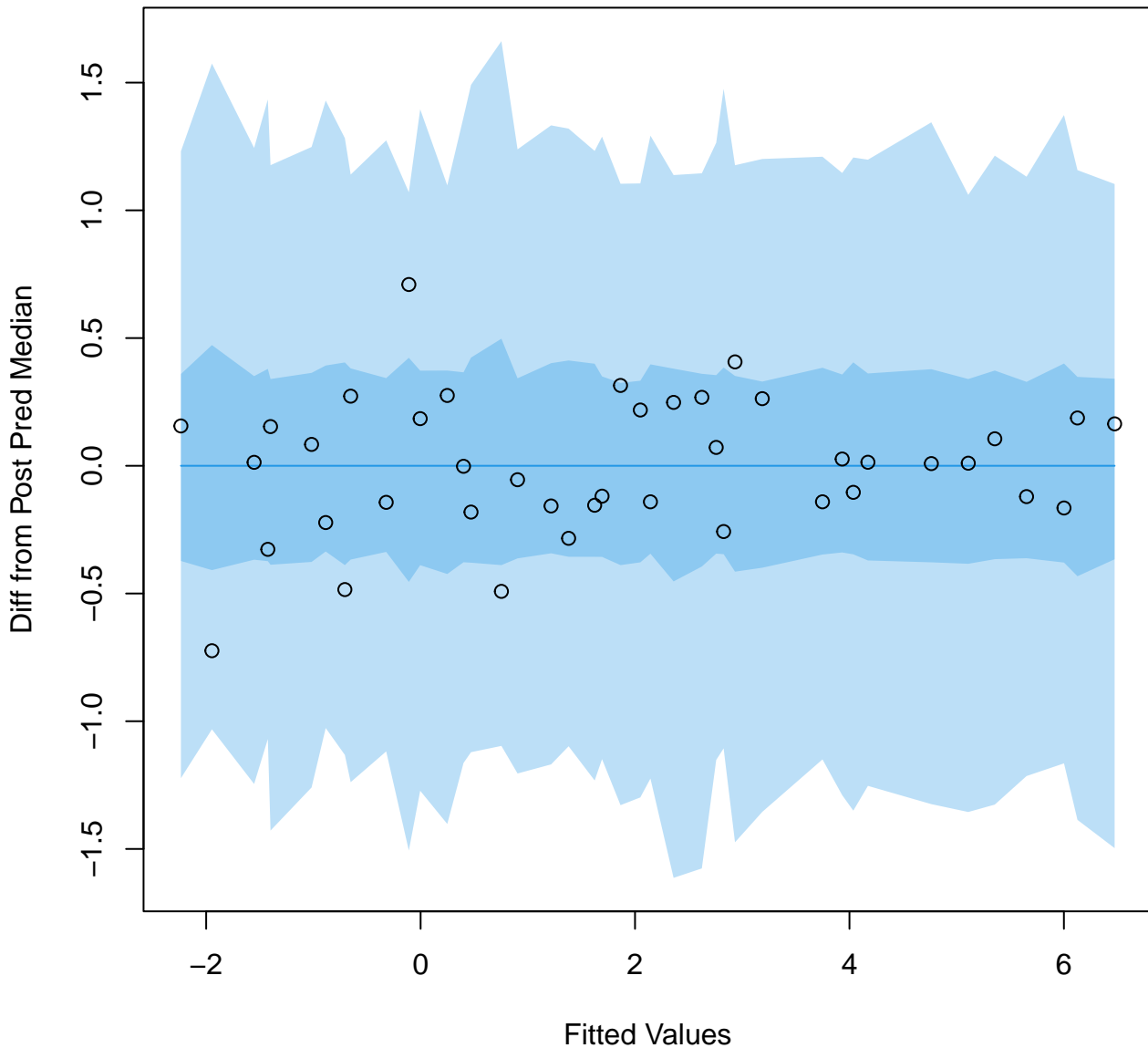
# Residual SD vs. Data y



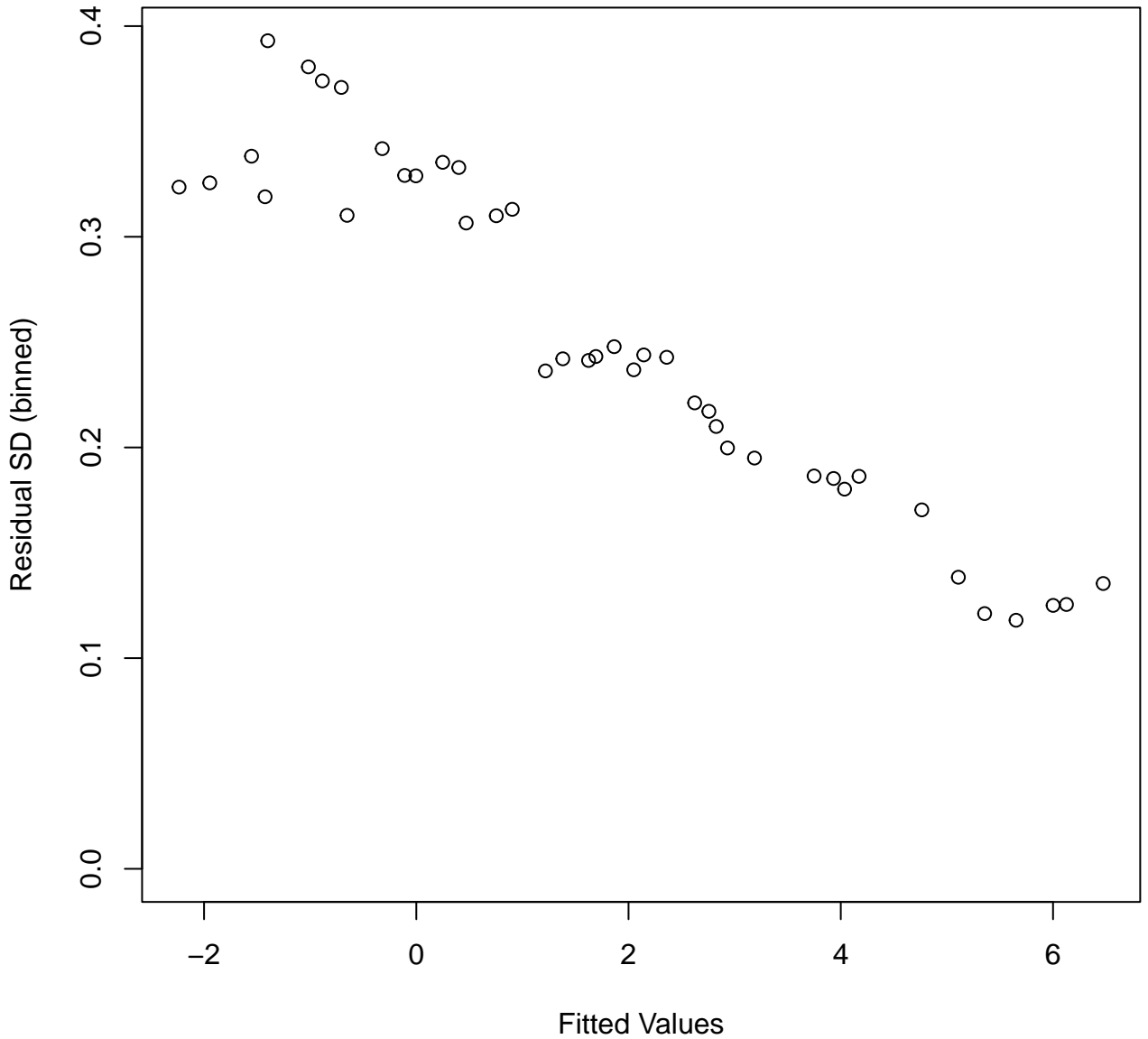
# Data y & Post Pred y vs. Fitted Values



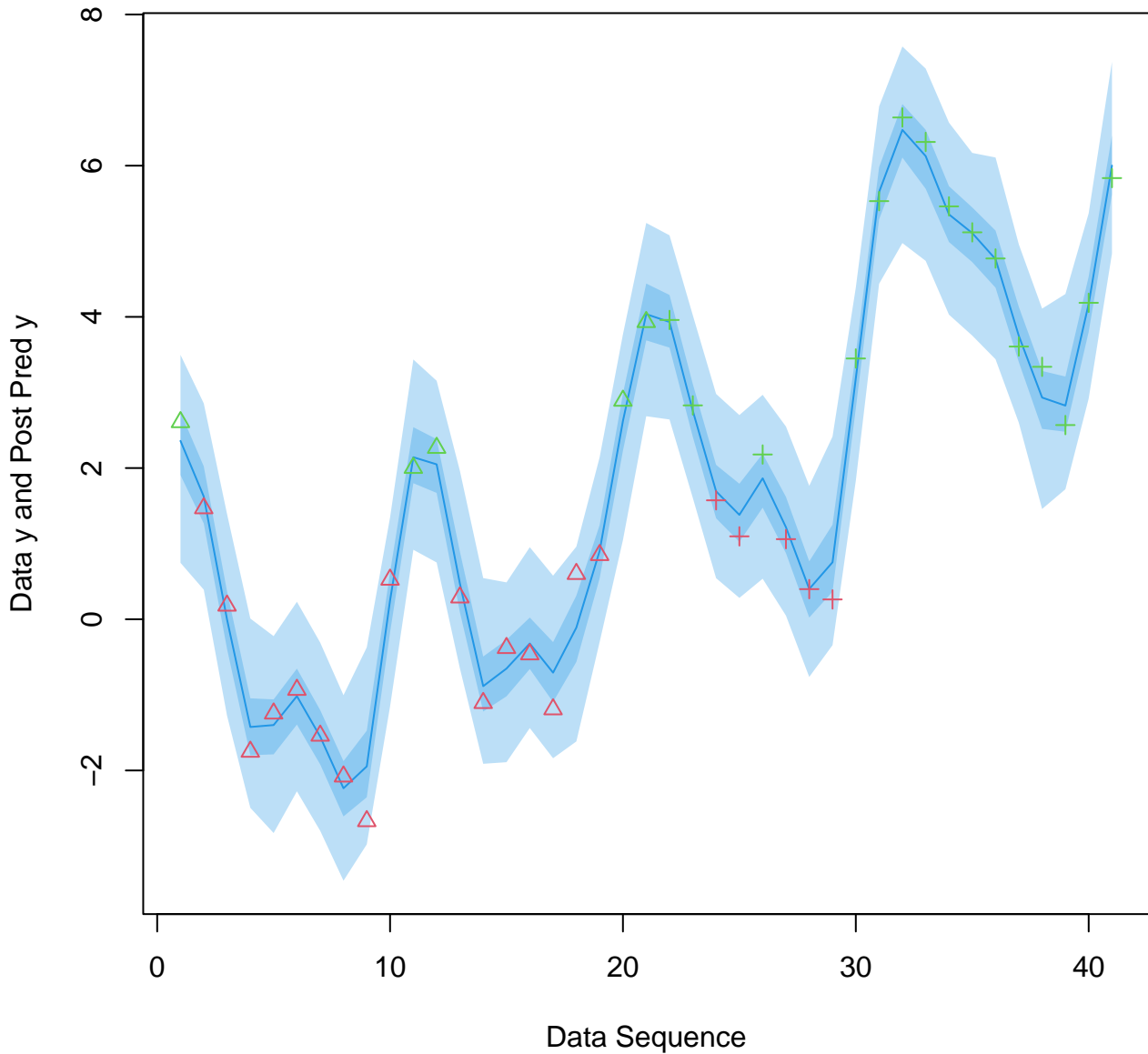
# Residuals & PP Residual vs. Fitted Values



# Residual SD vs. Fitted Values

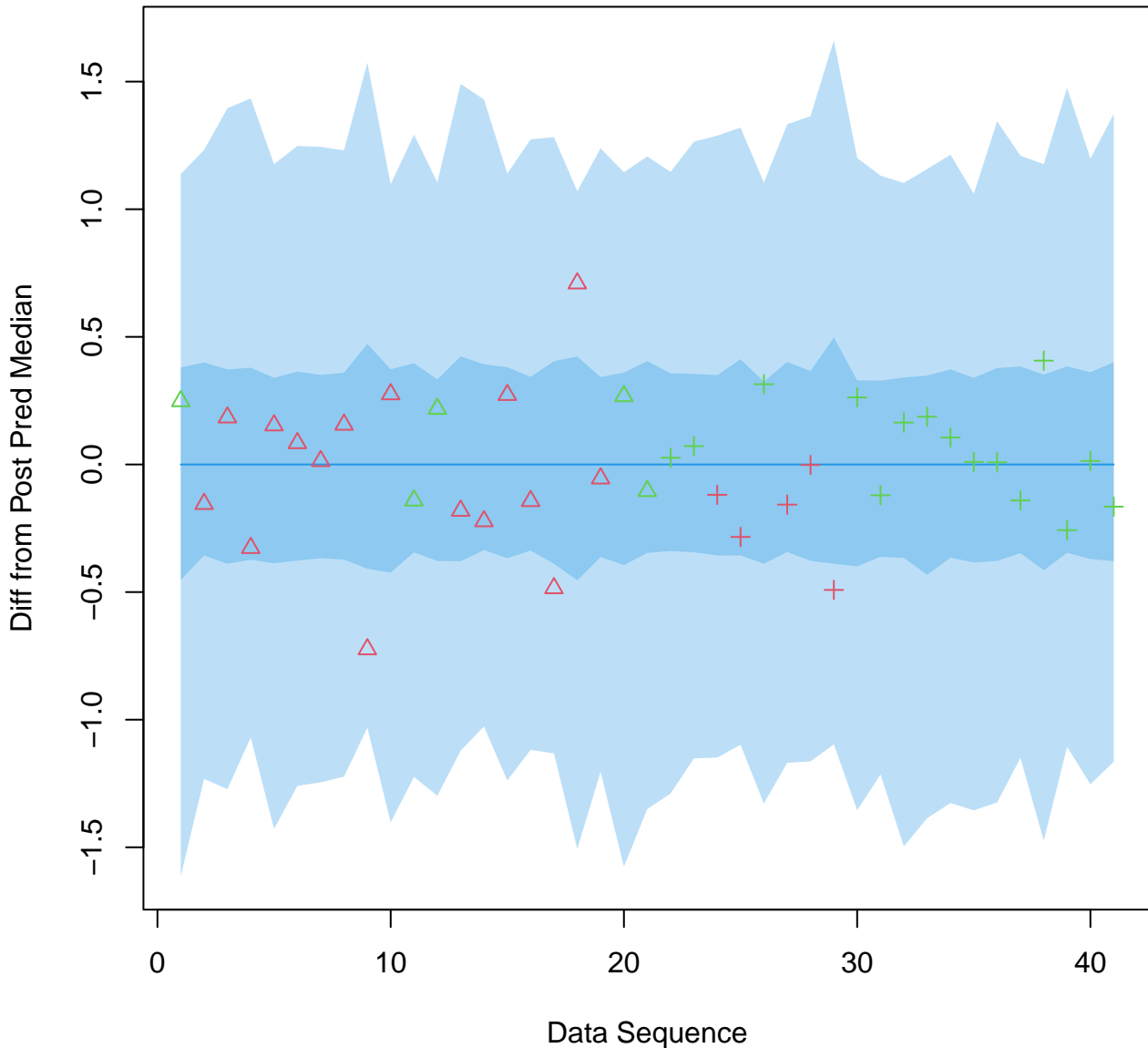


**Data y & Post Pred y  
vs. Data Sequence**

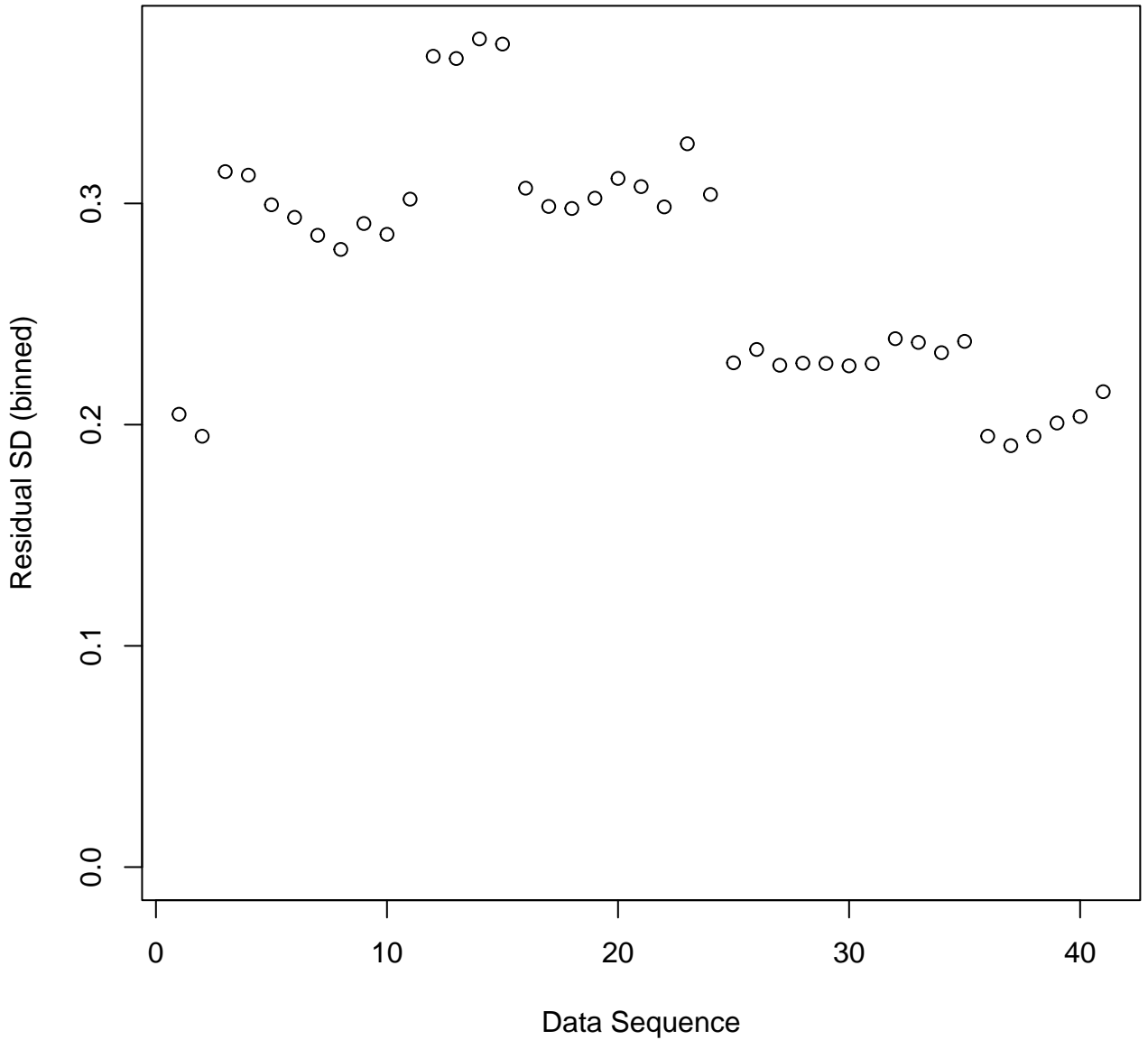




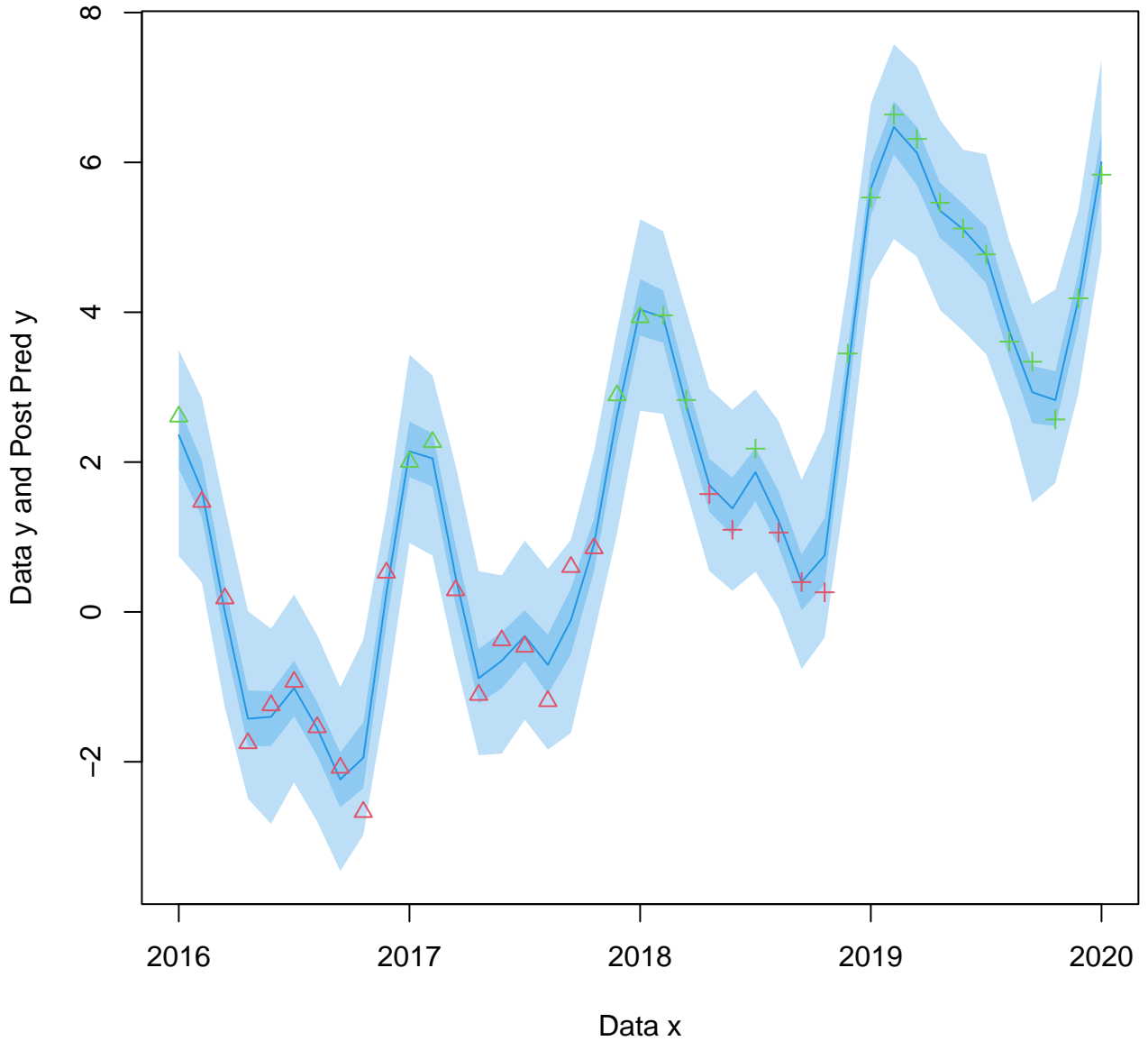
# Residuals & PP Residual vs. Data Sequence



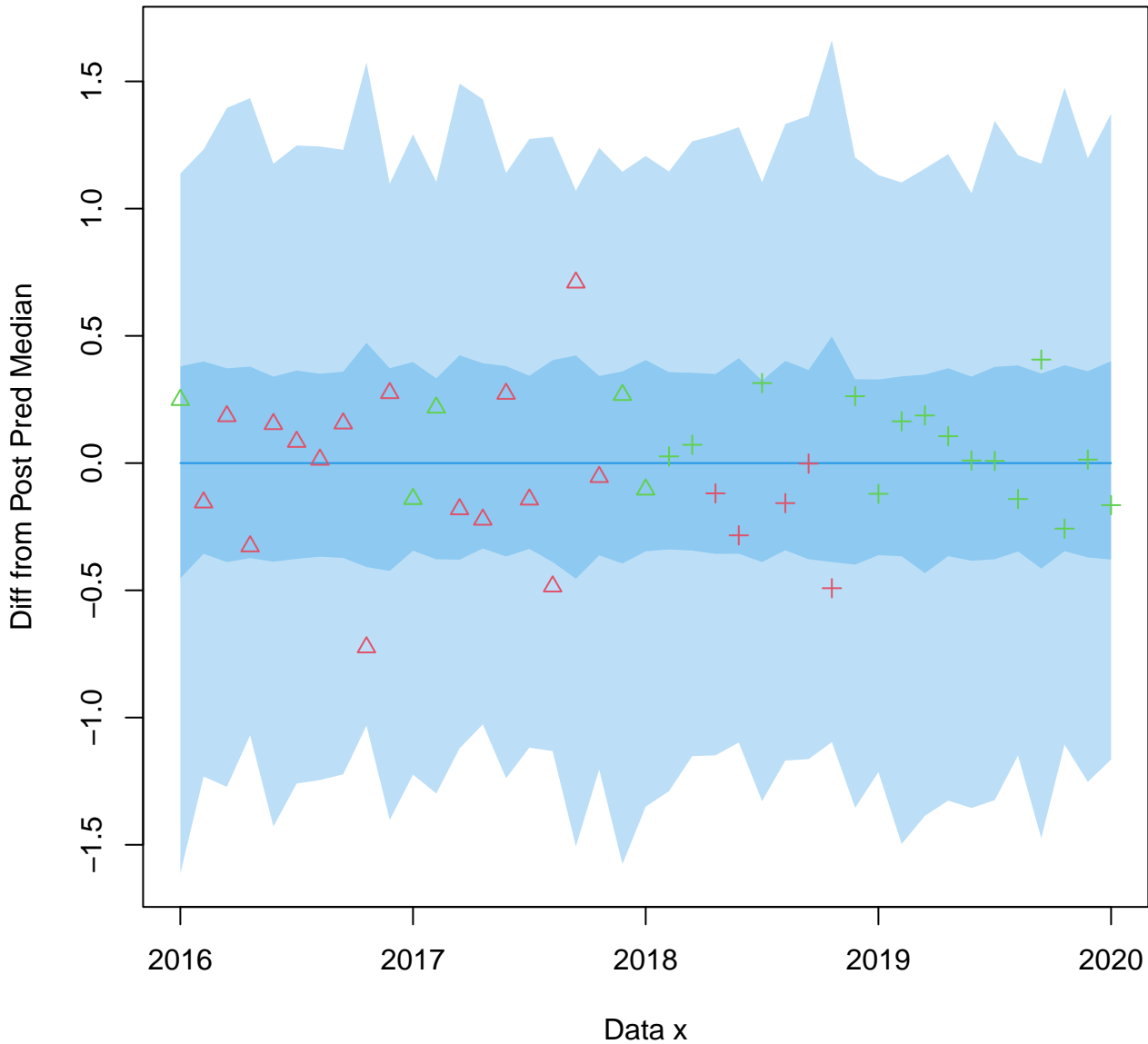
# Residual SD vs. Data Sequence



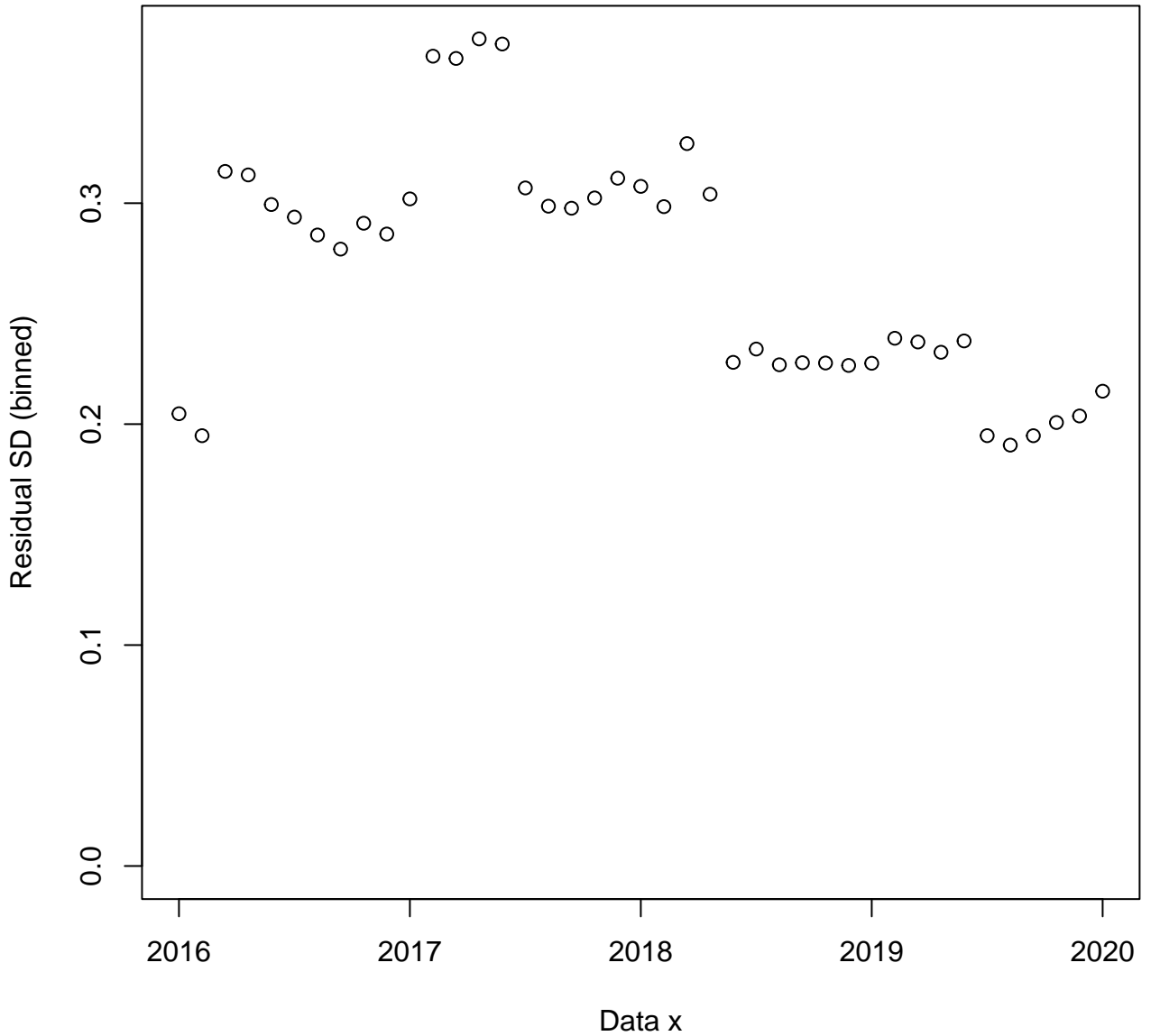
# Data y & Post Pred y vs. Data x



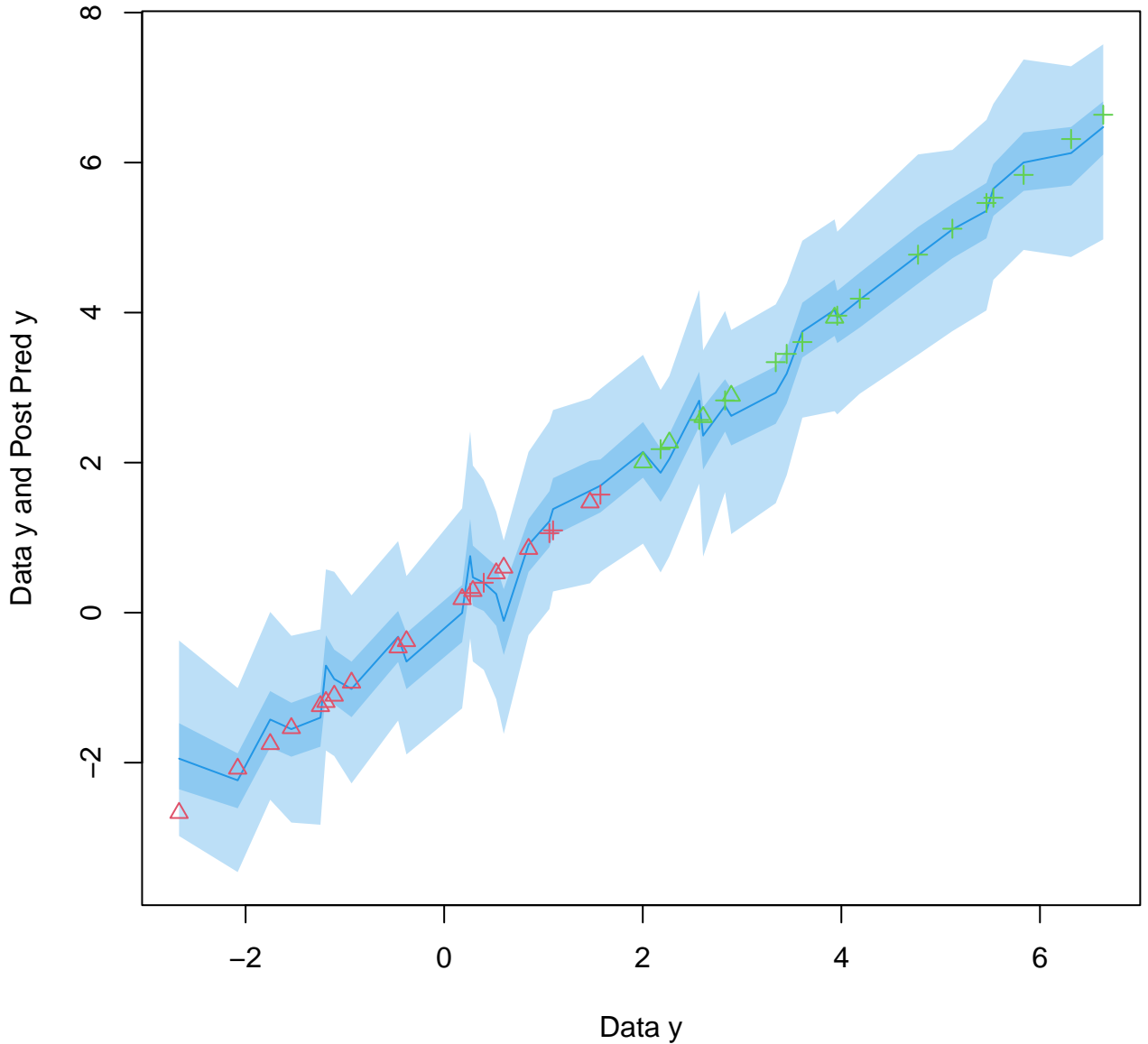
# Residuals & PP Residual vs. Data x



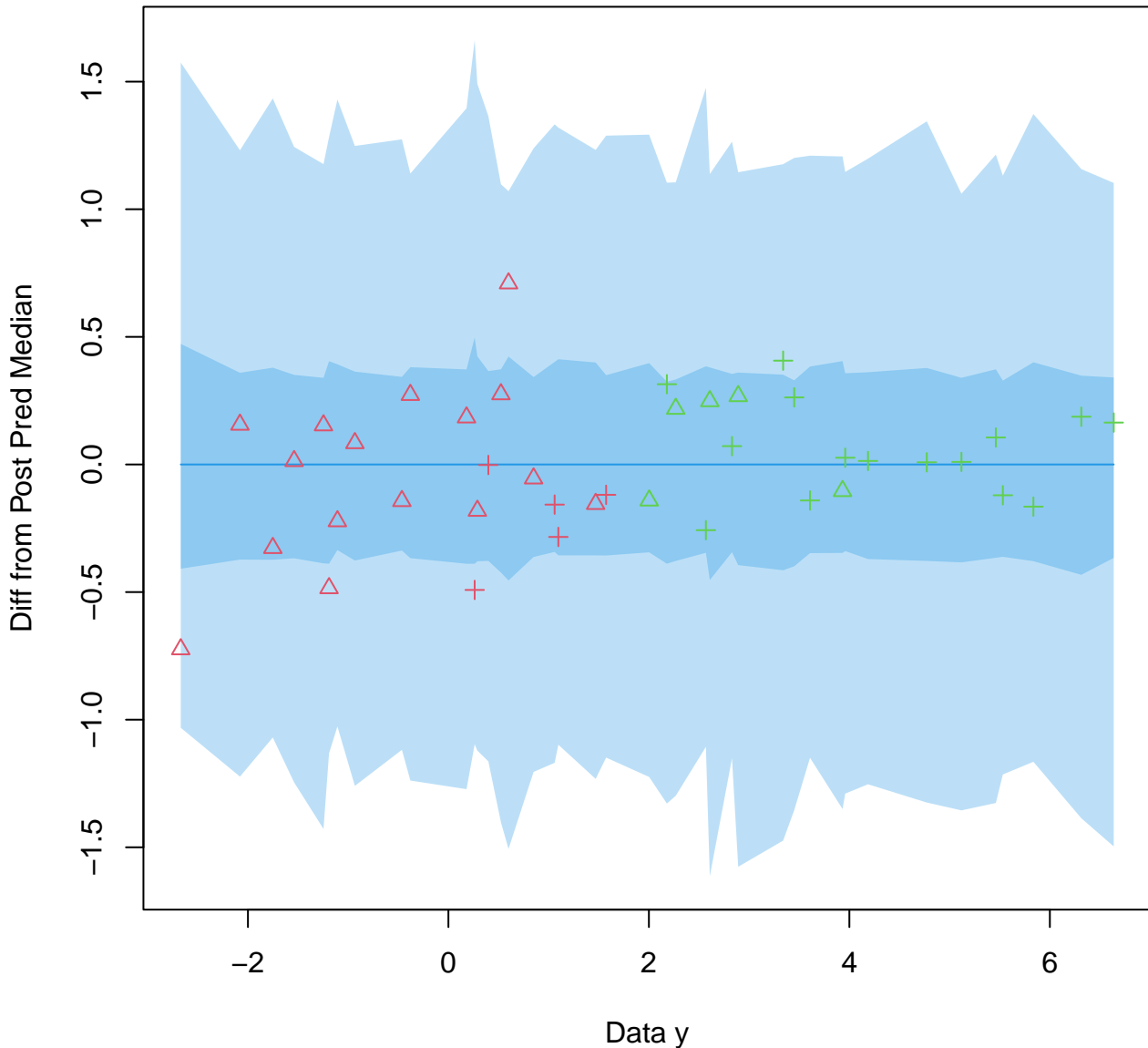
# Residual SD vs. Data x



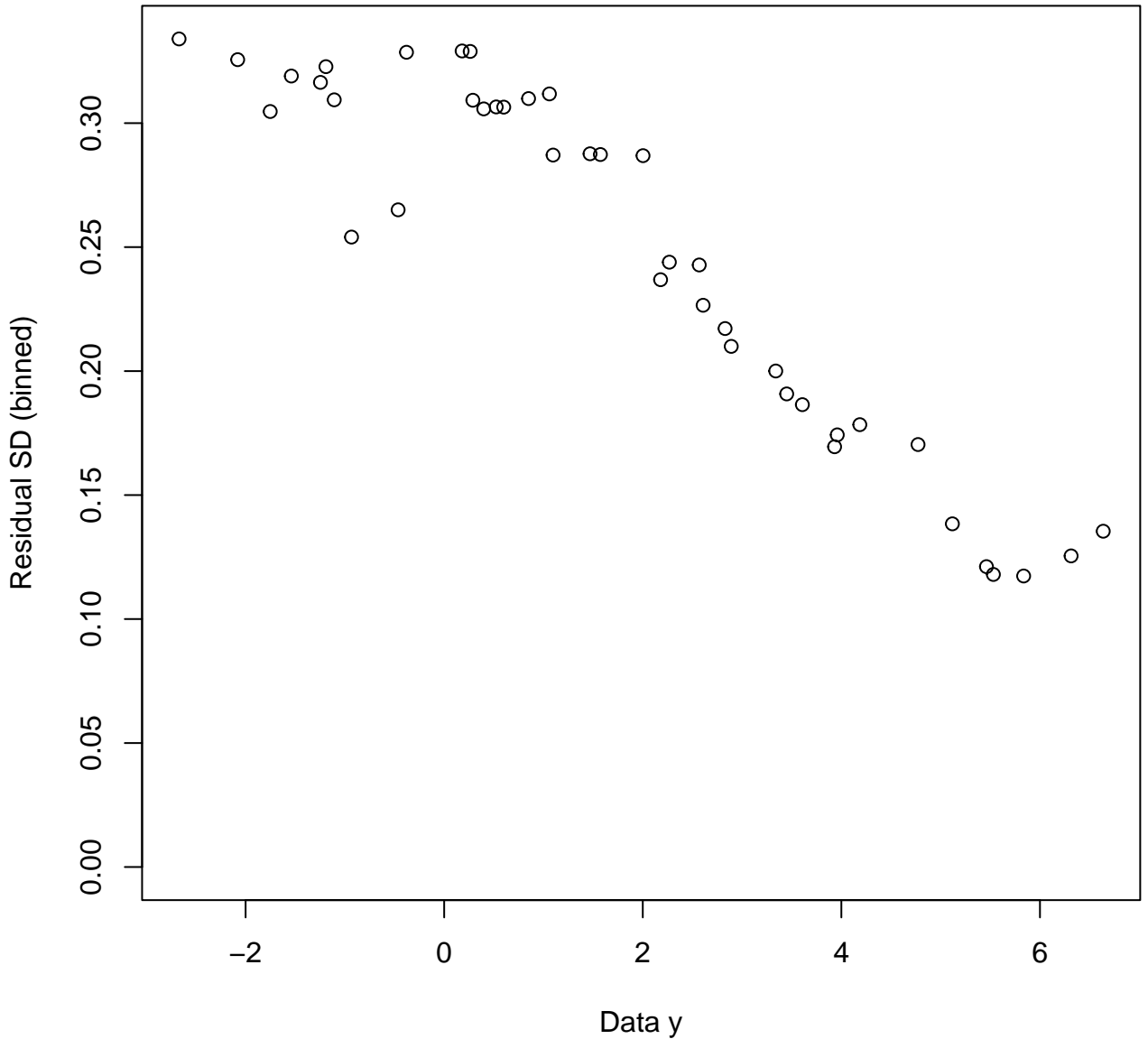
# Data y & Post Pred y vs. Data y



# Residuals & PP Residual vs. Data y

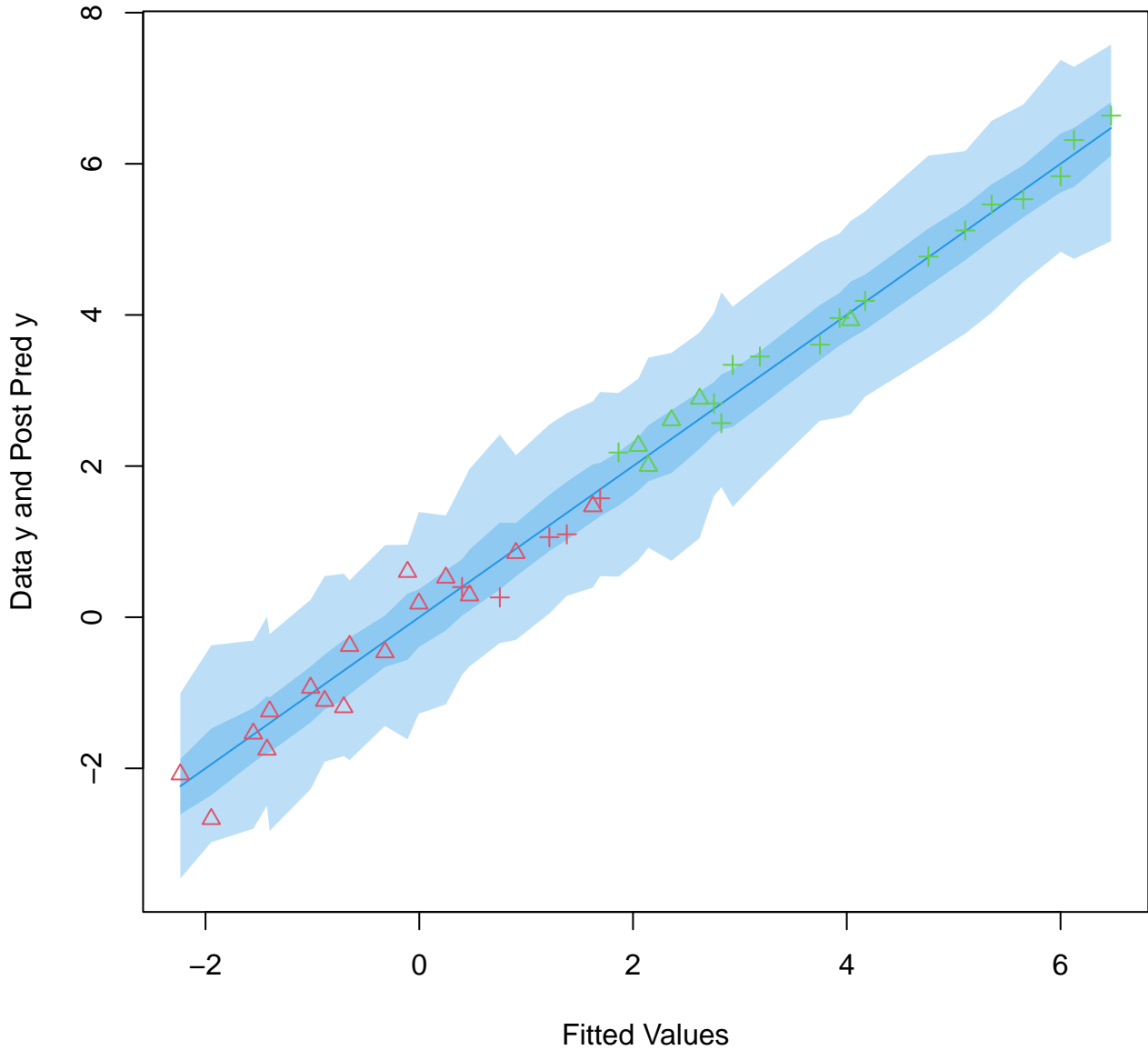


# Residual SD vs. Data y

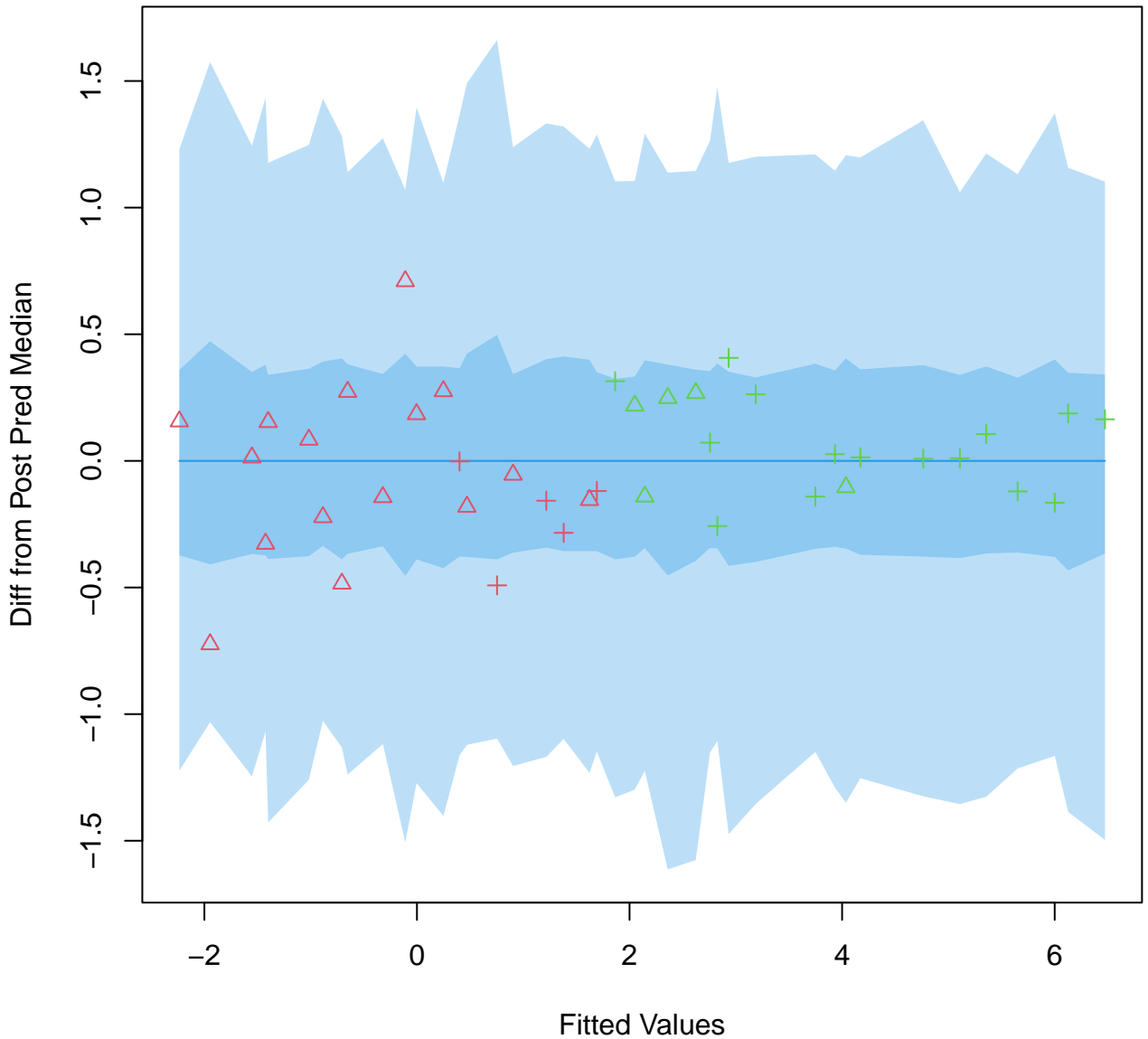




# Data y & Post Pred y vs. Fitted Values



# Residuals & PP Residual vs. Fitted Values



# Residual SD vs. Fitted Values

