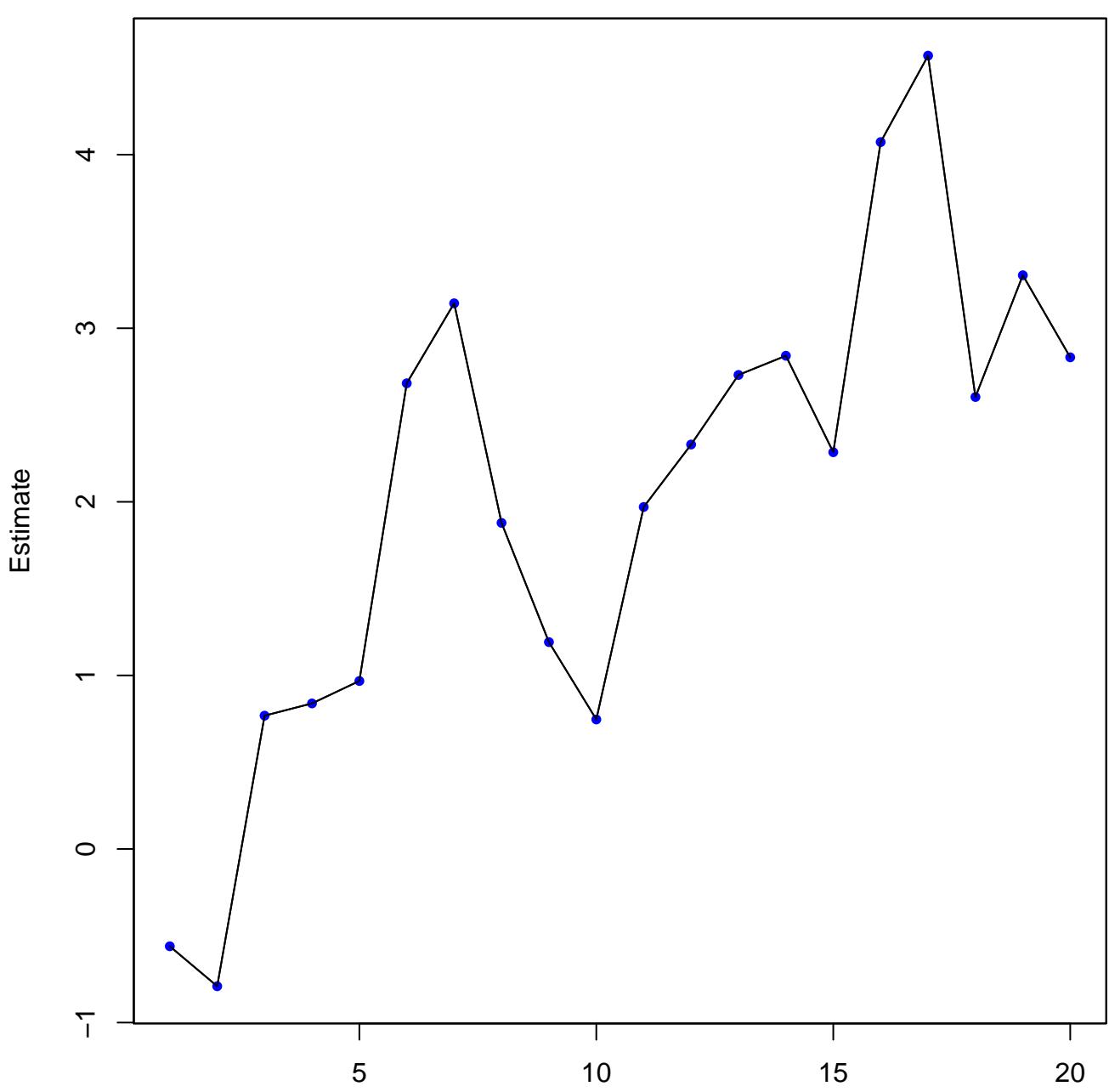
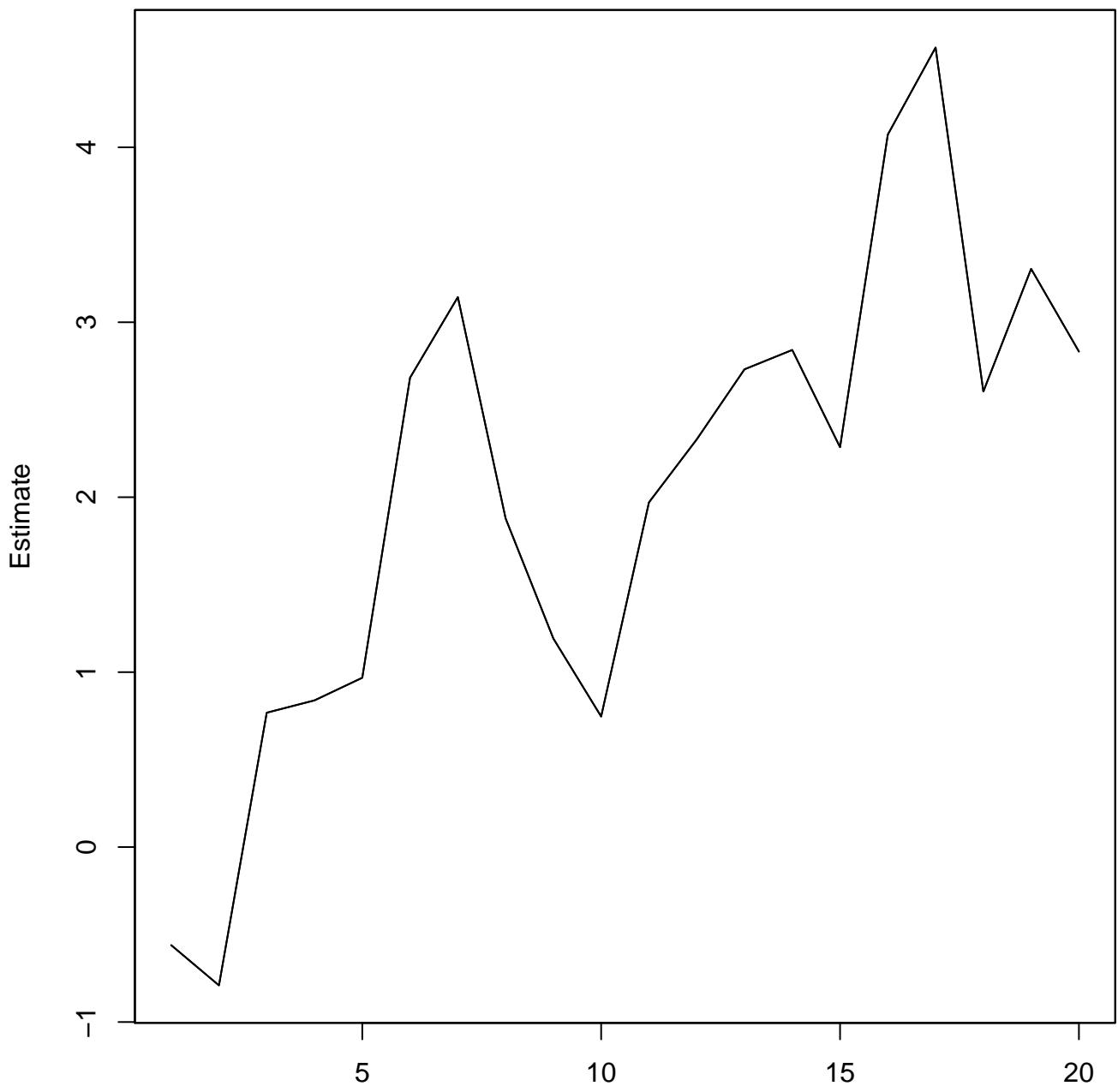


Y1 + CI



State X.Y1

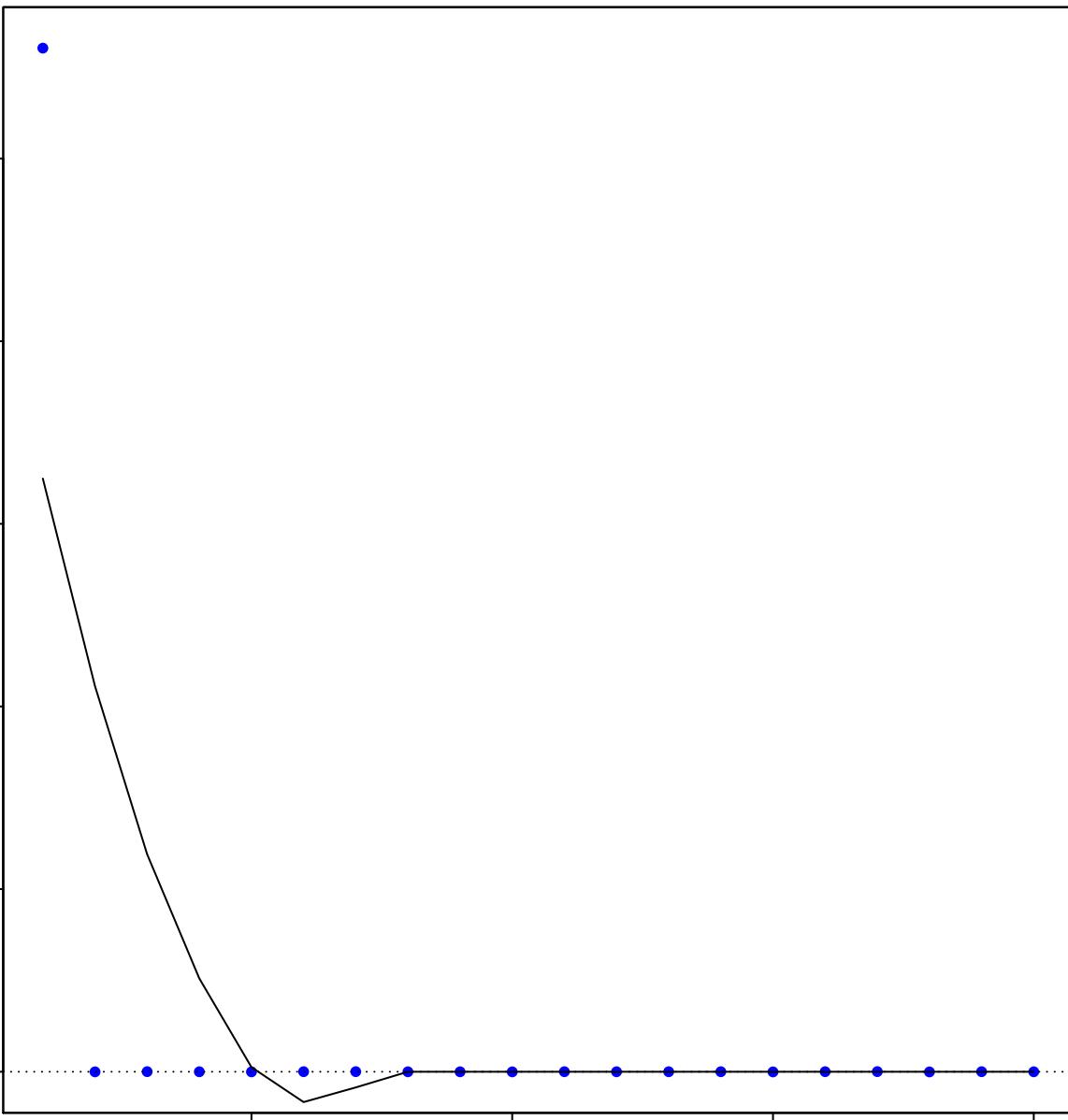


Y1

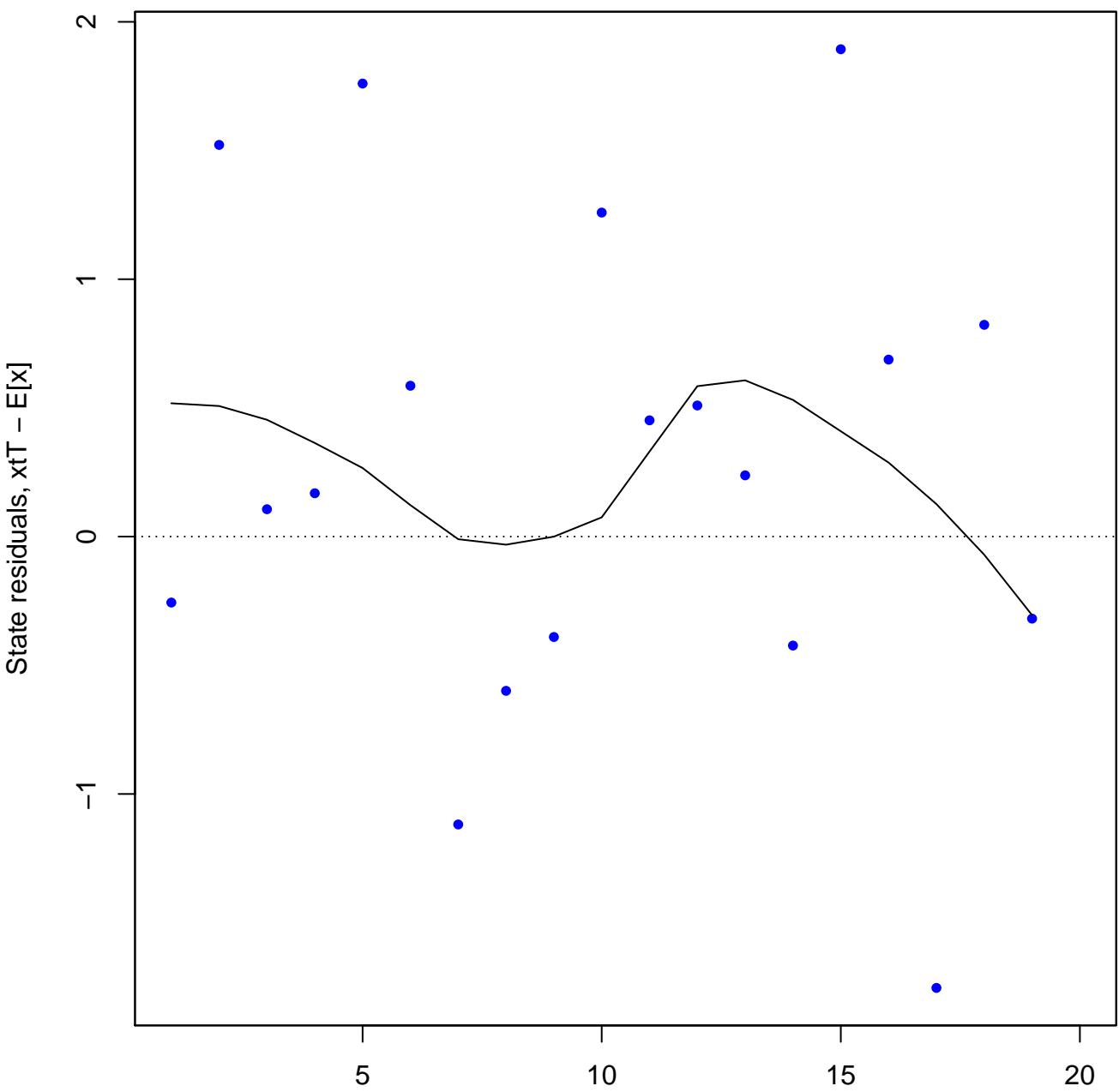
Observation residuals, $y - E[y]$

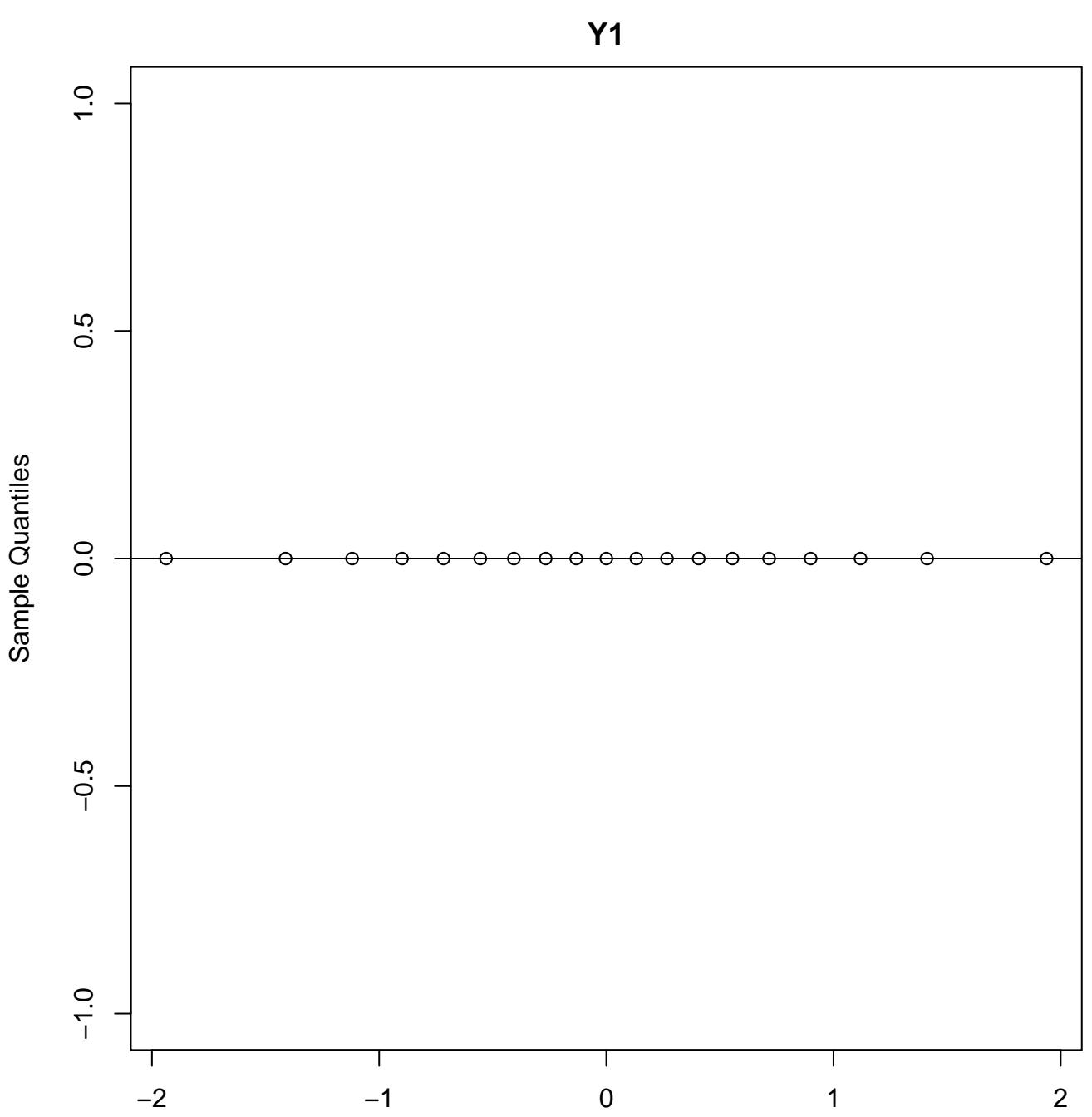
5e-05
4e-05
3e-05
2e-05
1e-05
0e+00

5 10 15 20

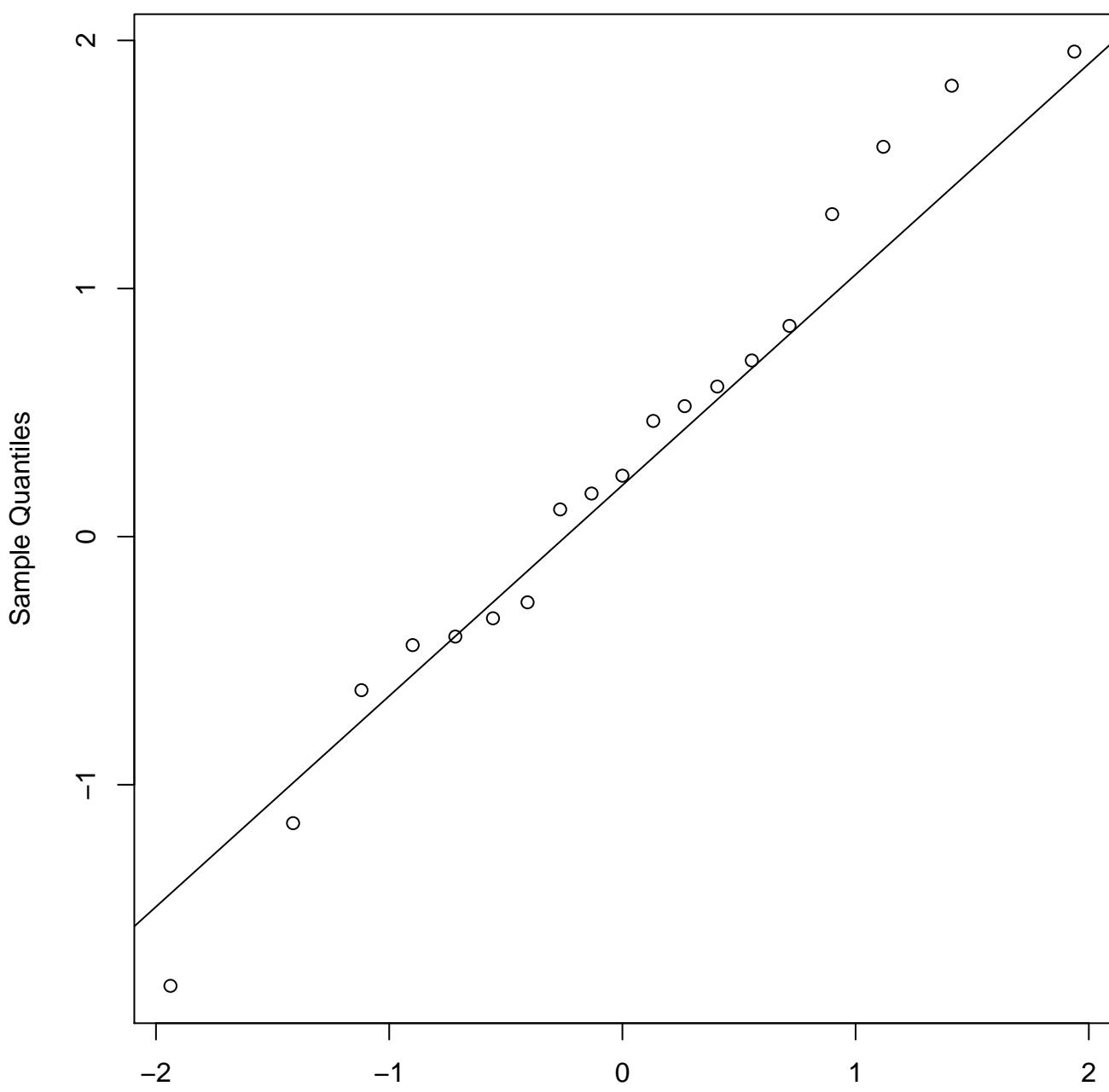


State X.Y1

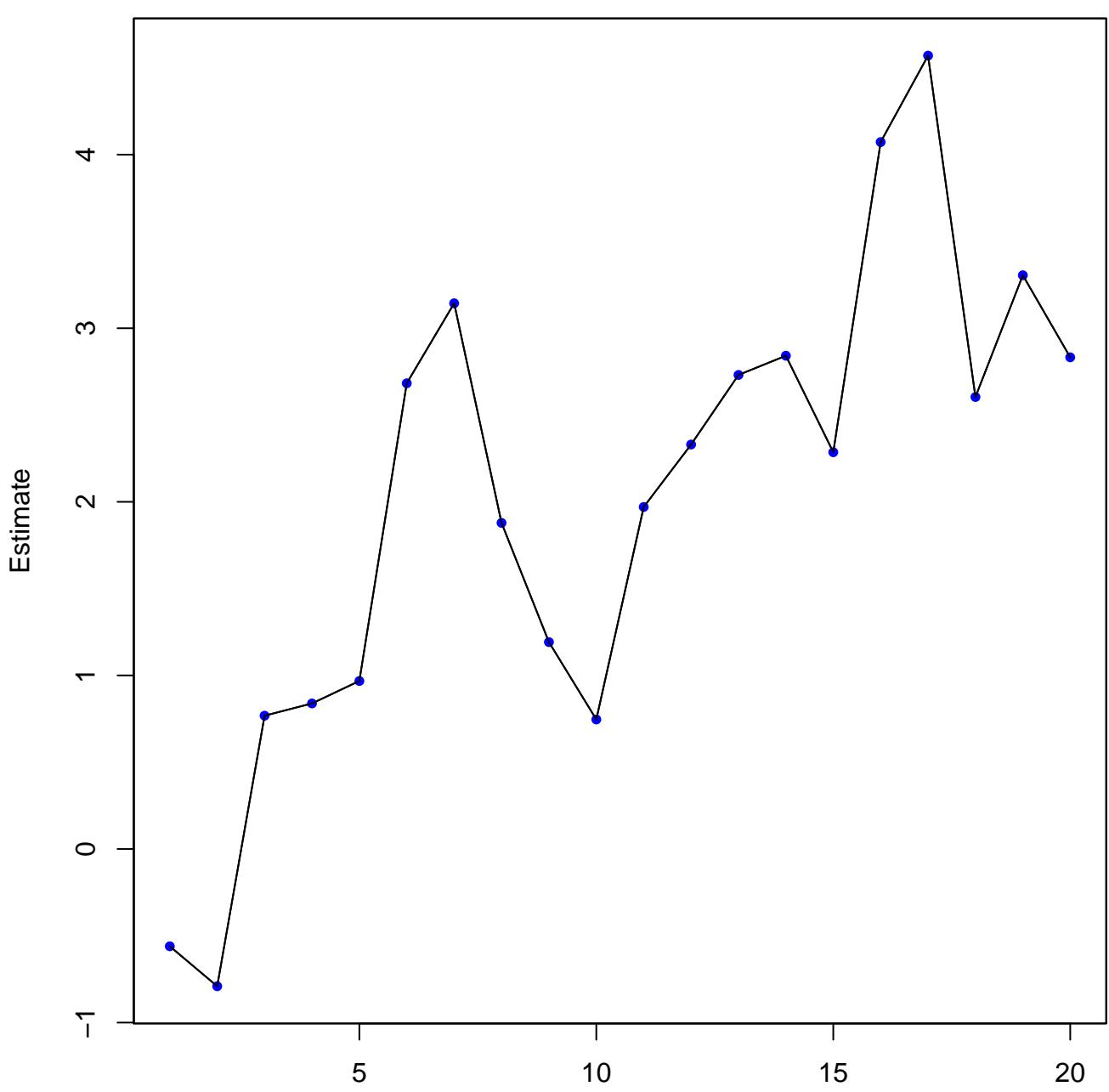




State X.Y1

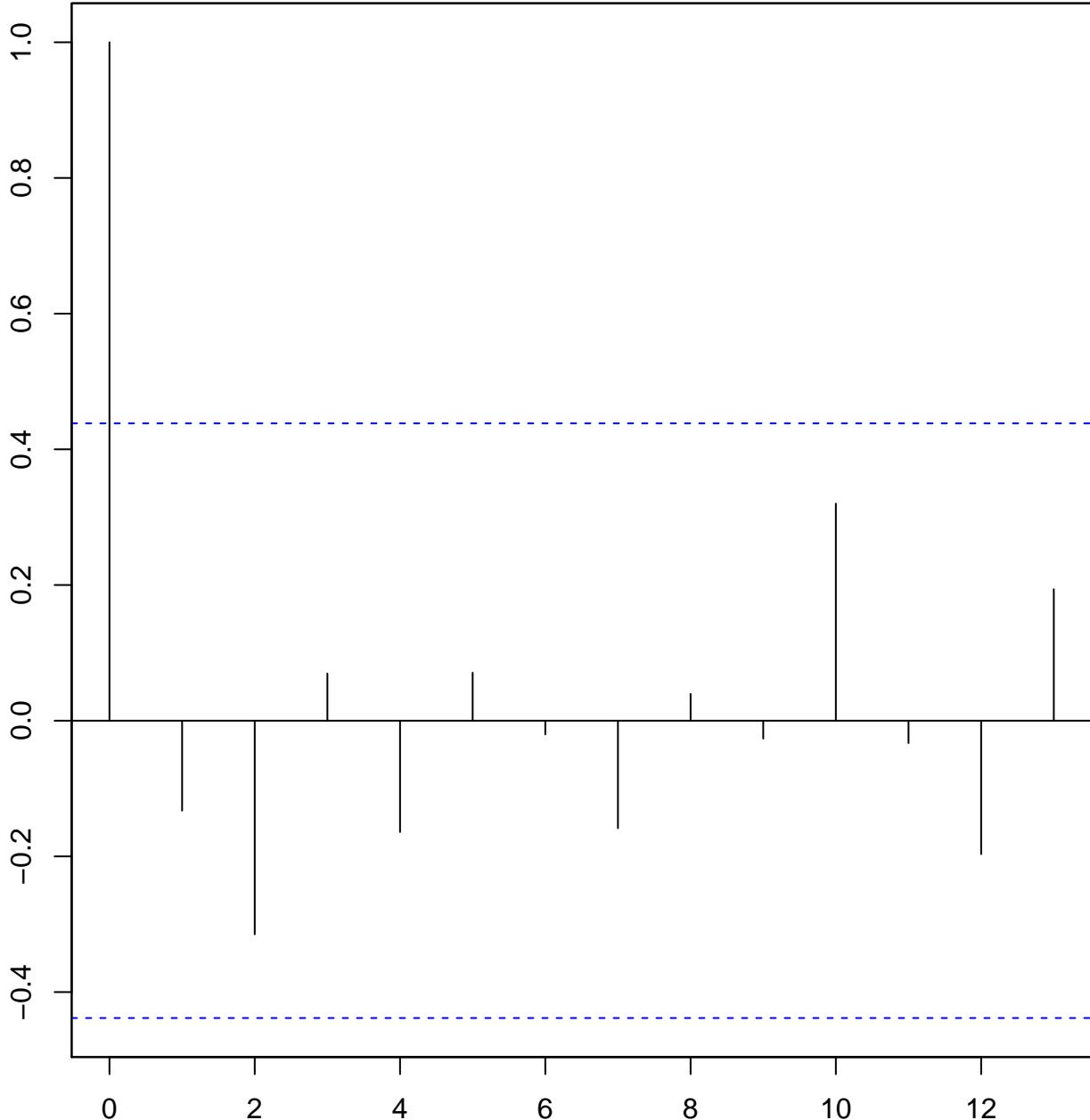


Y1 + CI

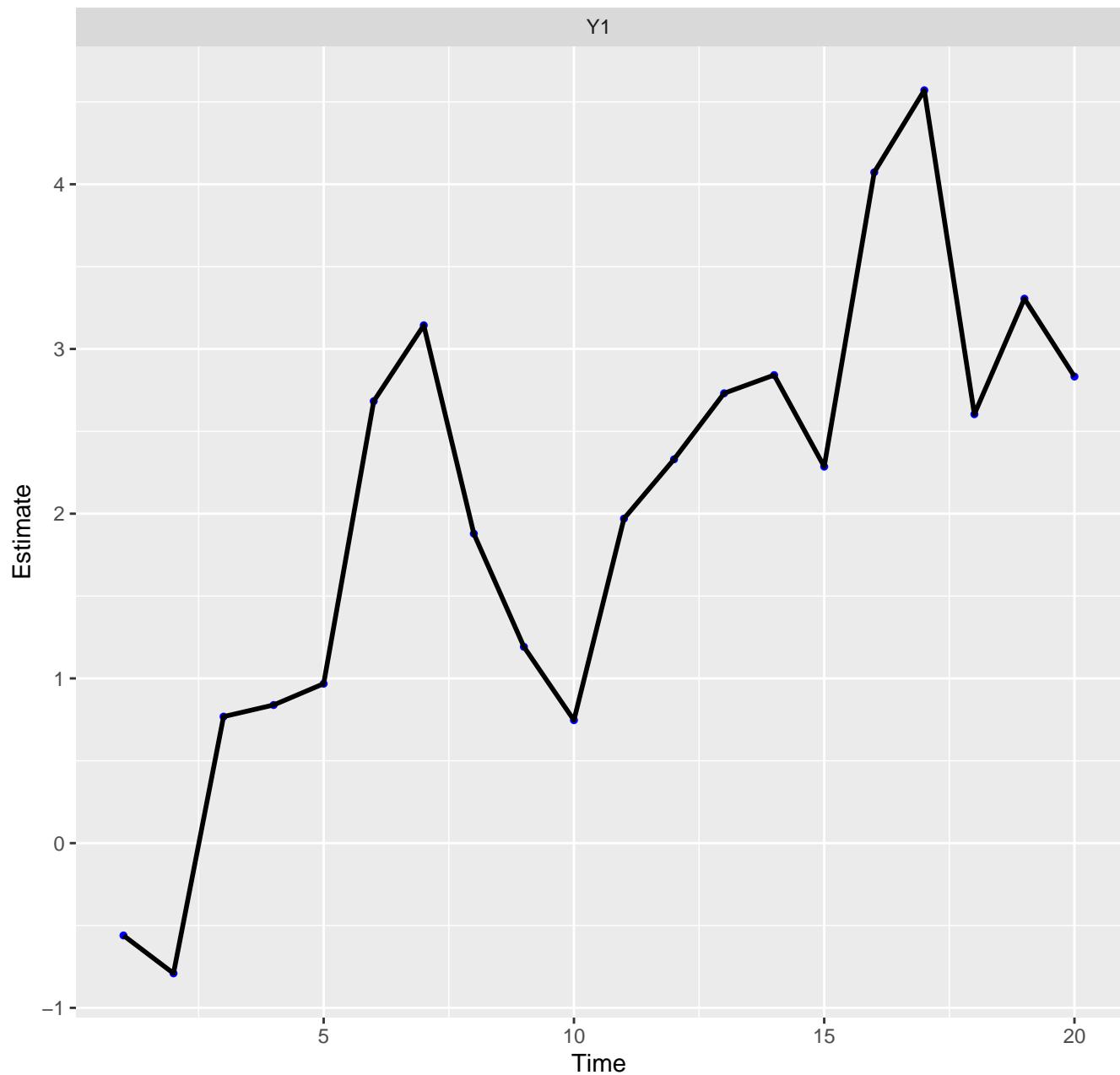


Y1

ACF



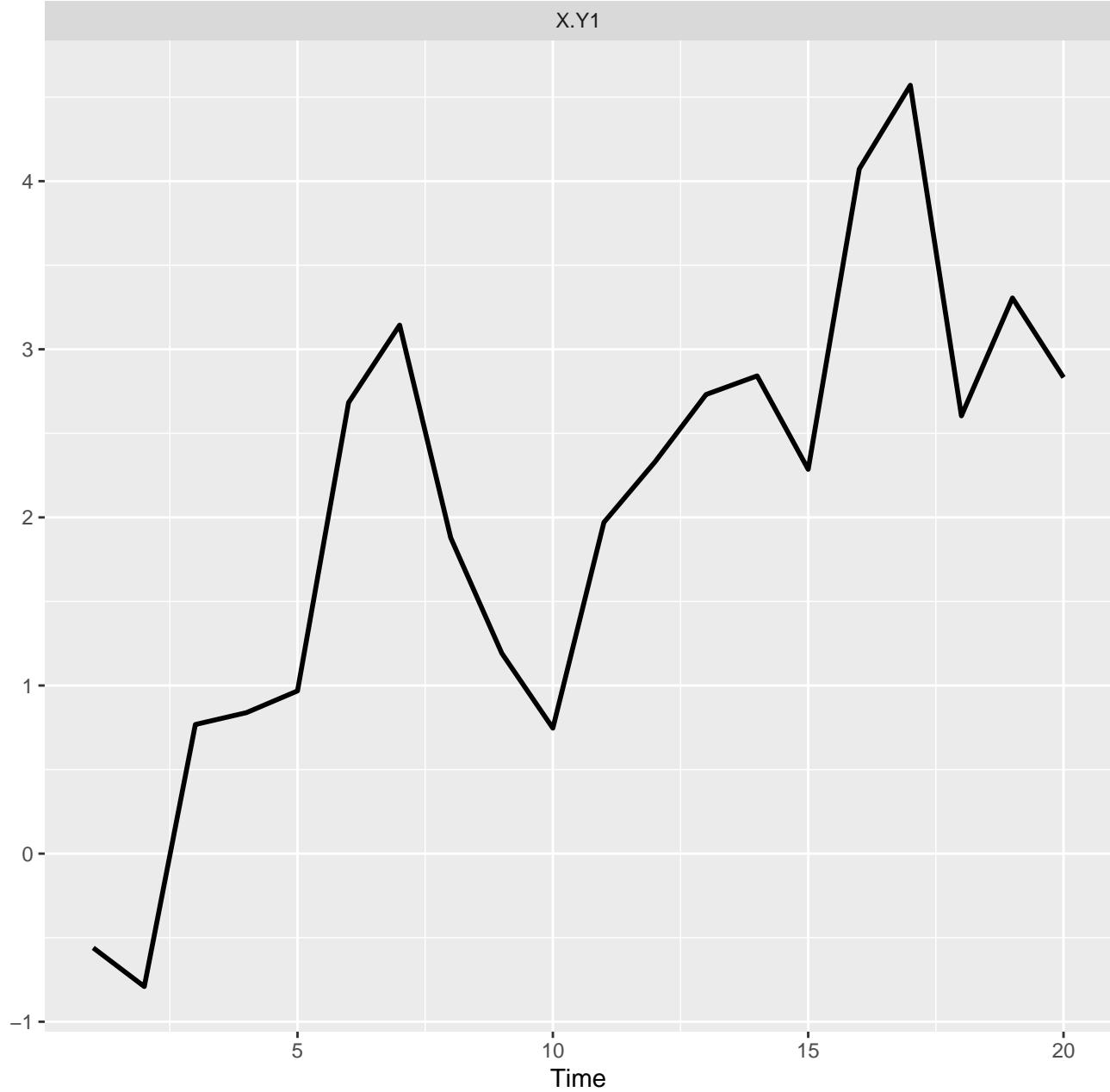
Model fitted Y + CI



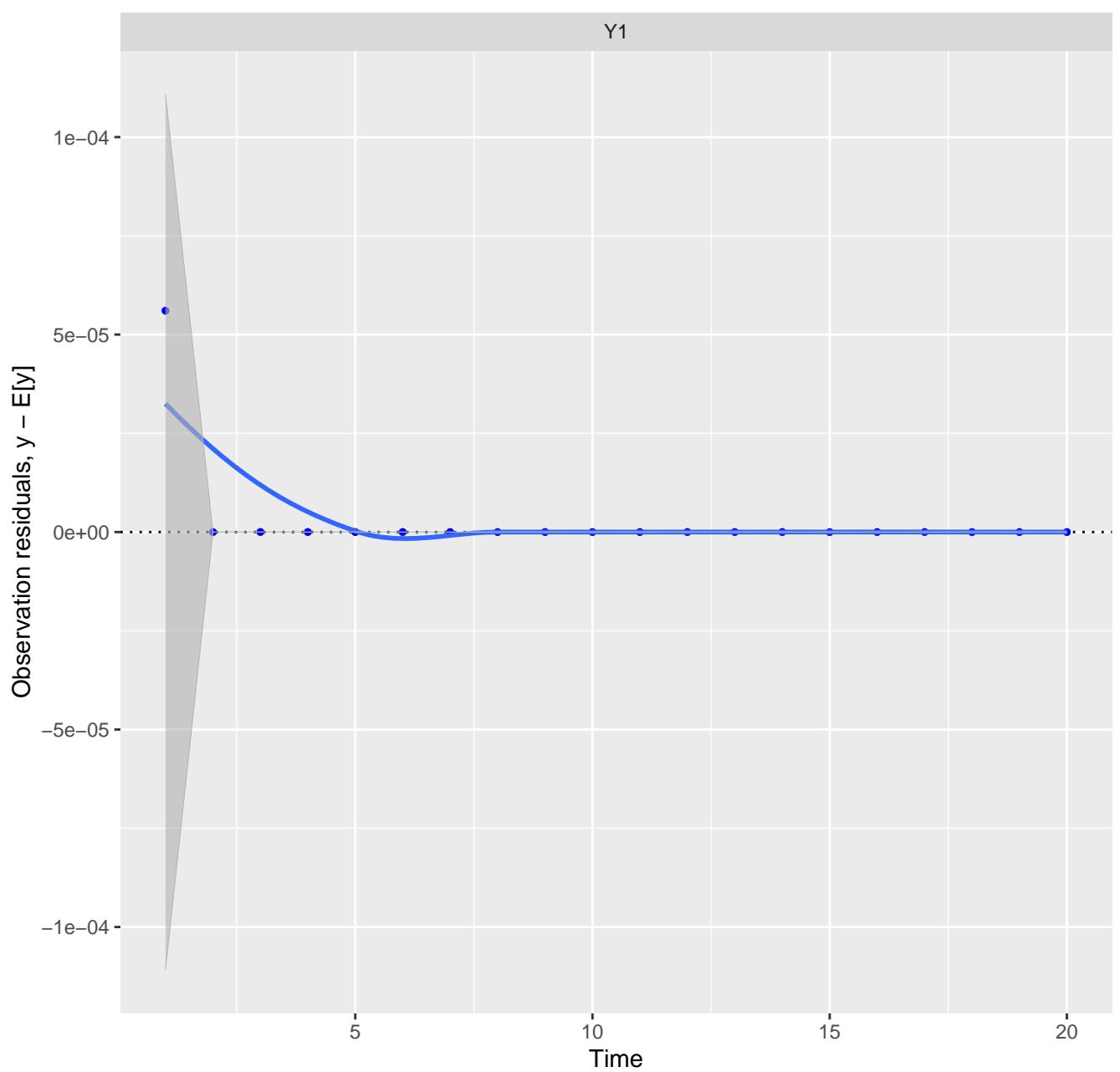
States

X.Y1

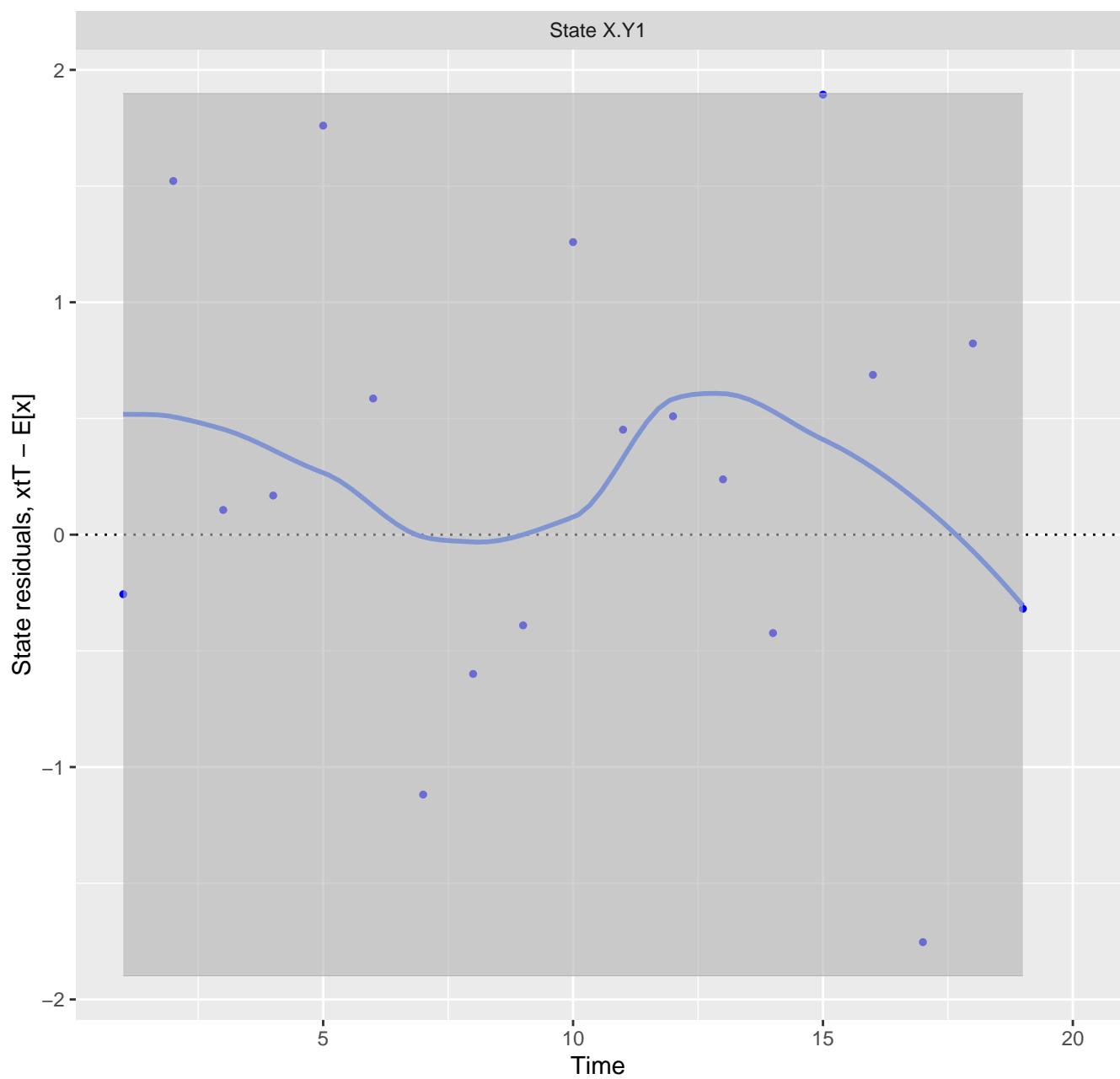
Estimate



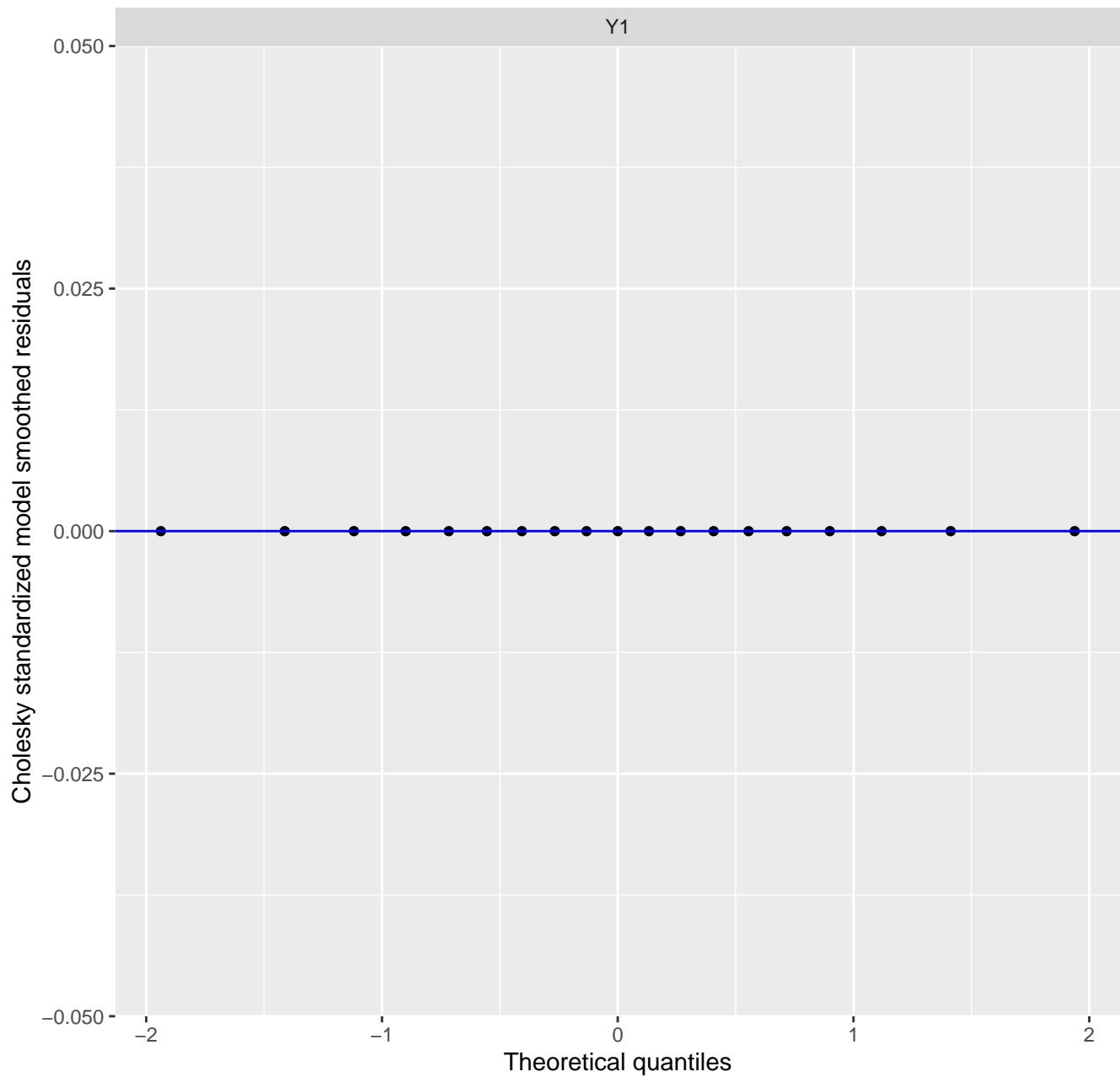
Model residuals



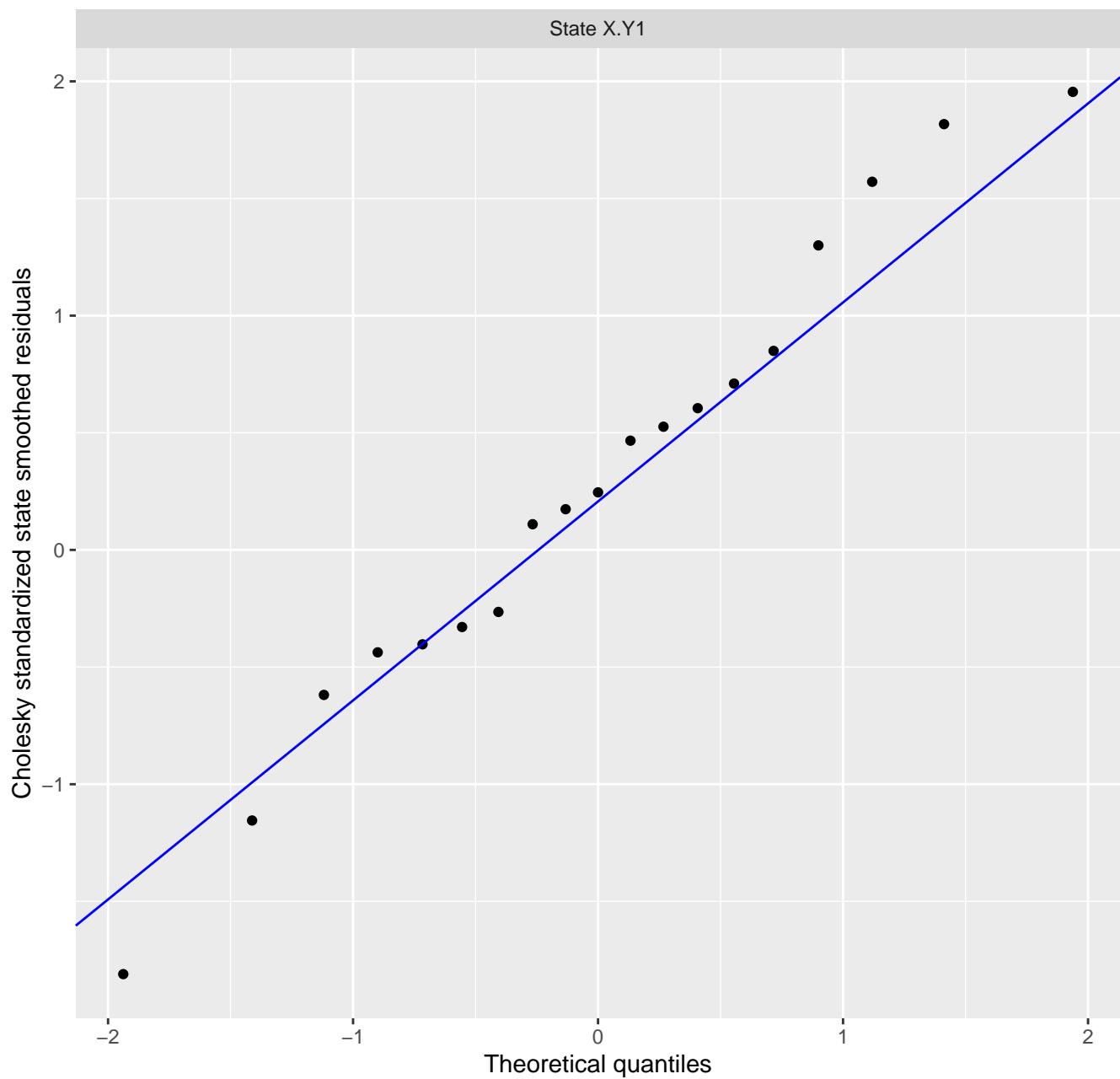
State residuals



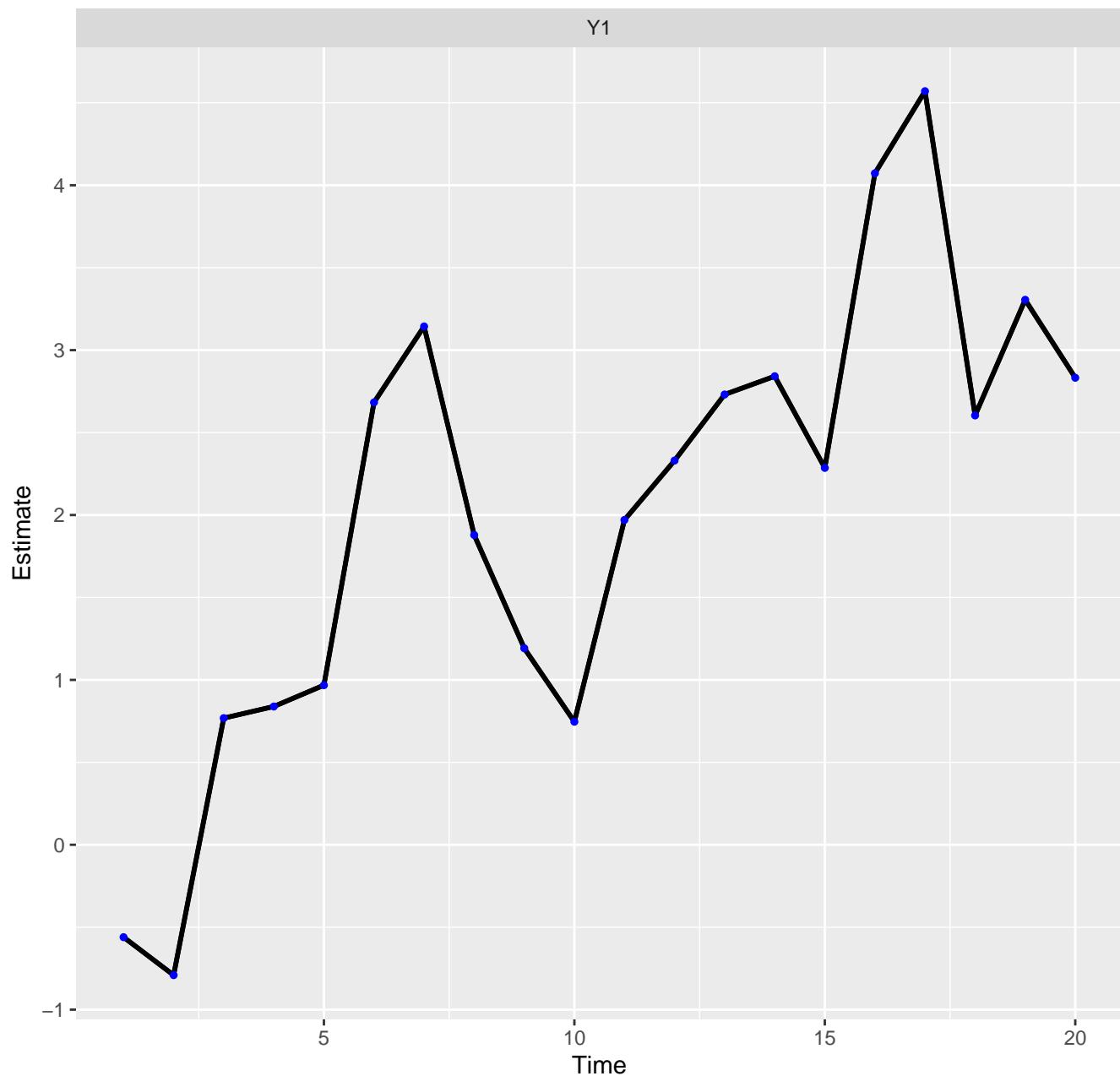
Model residuals normality test



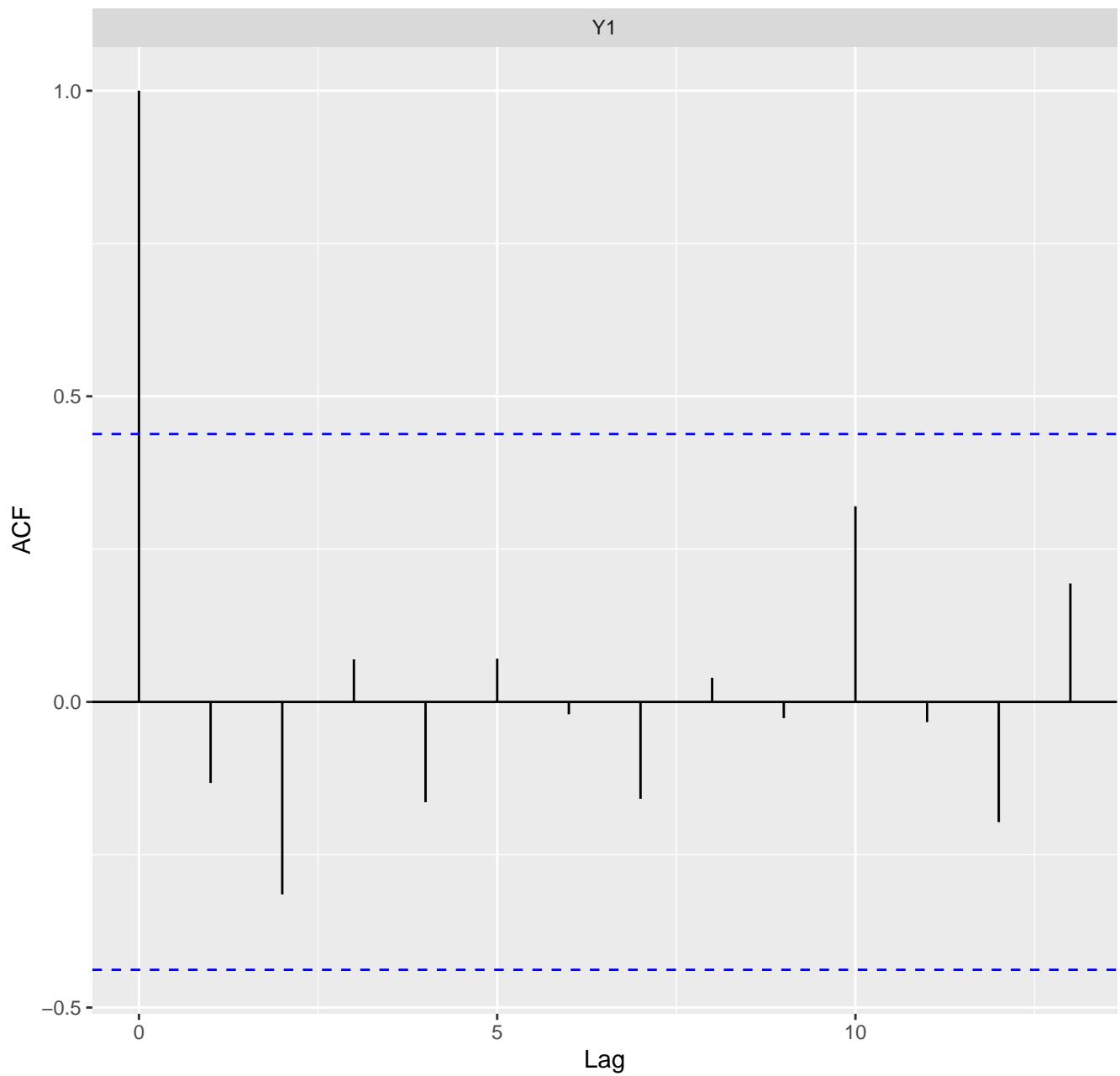
State residuals normality test



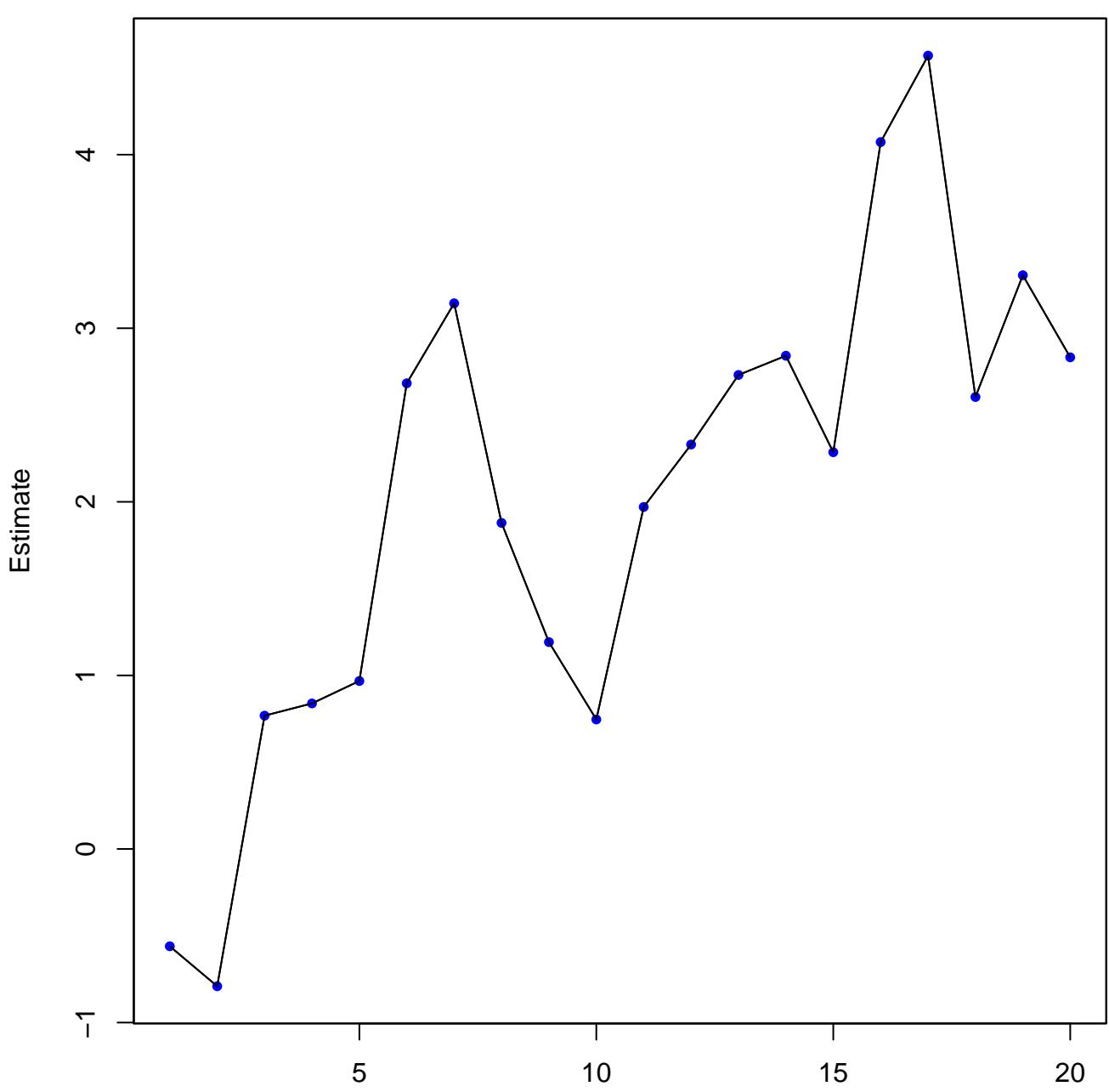
Expected value of Y conditioned on data



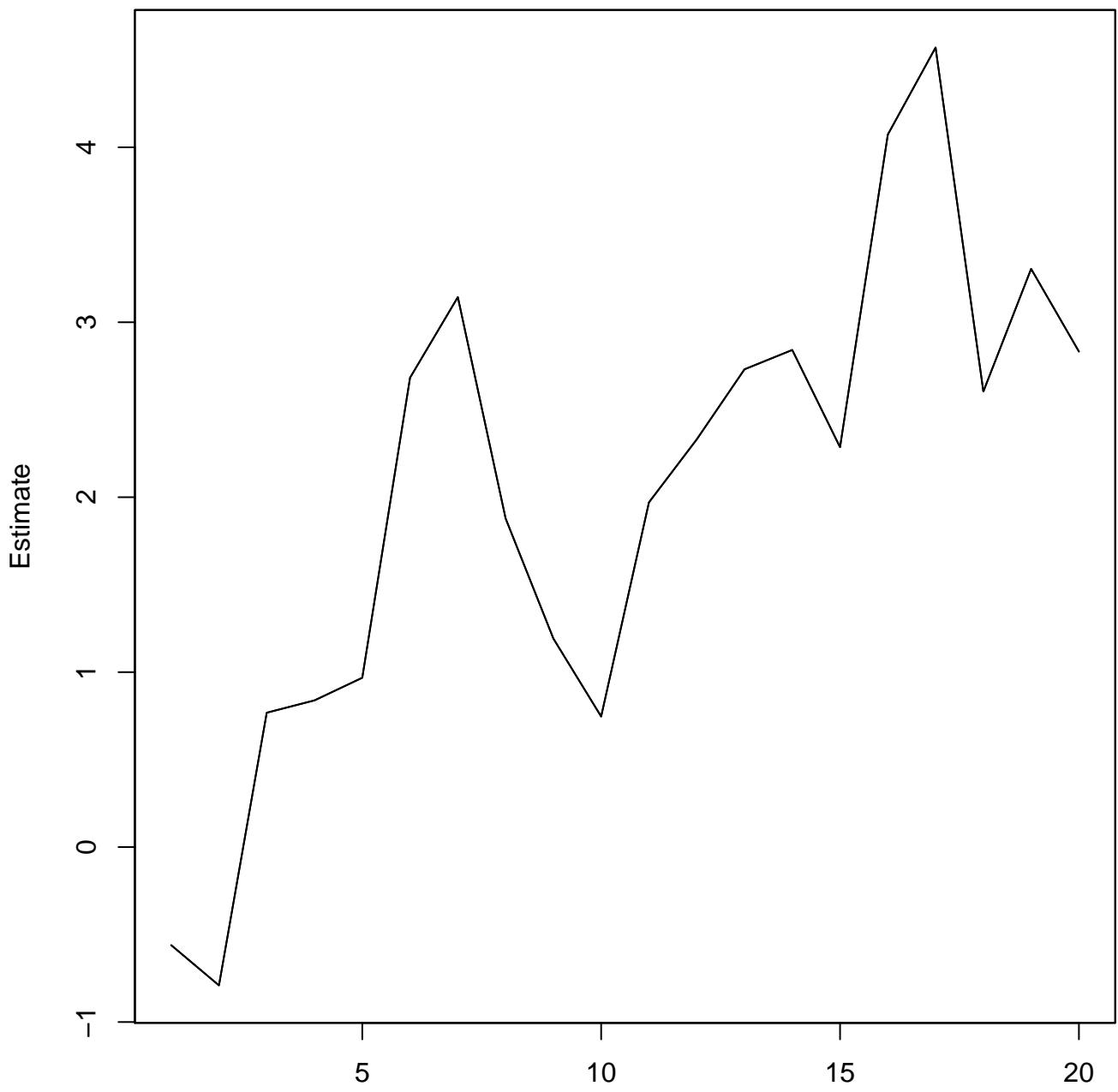
Model innovations residuals ACF



Y1 + CI



State X.Y1

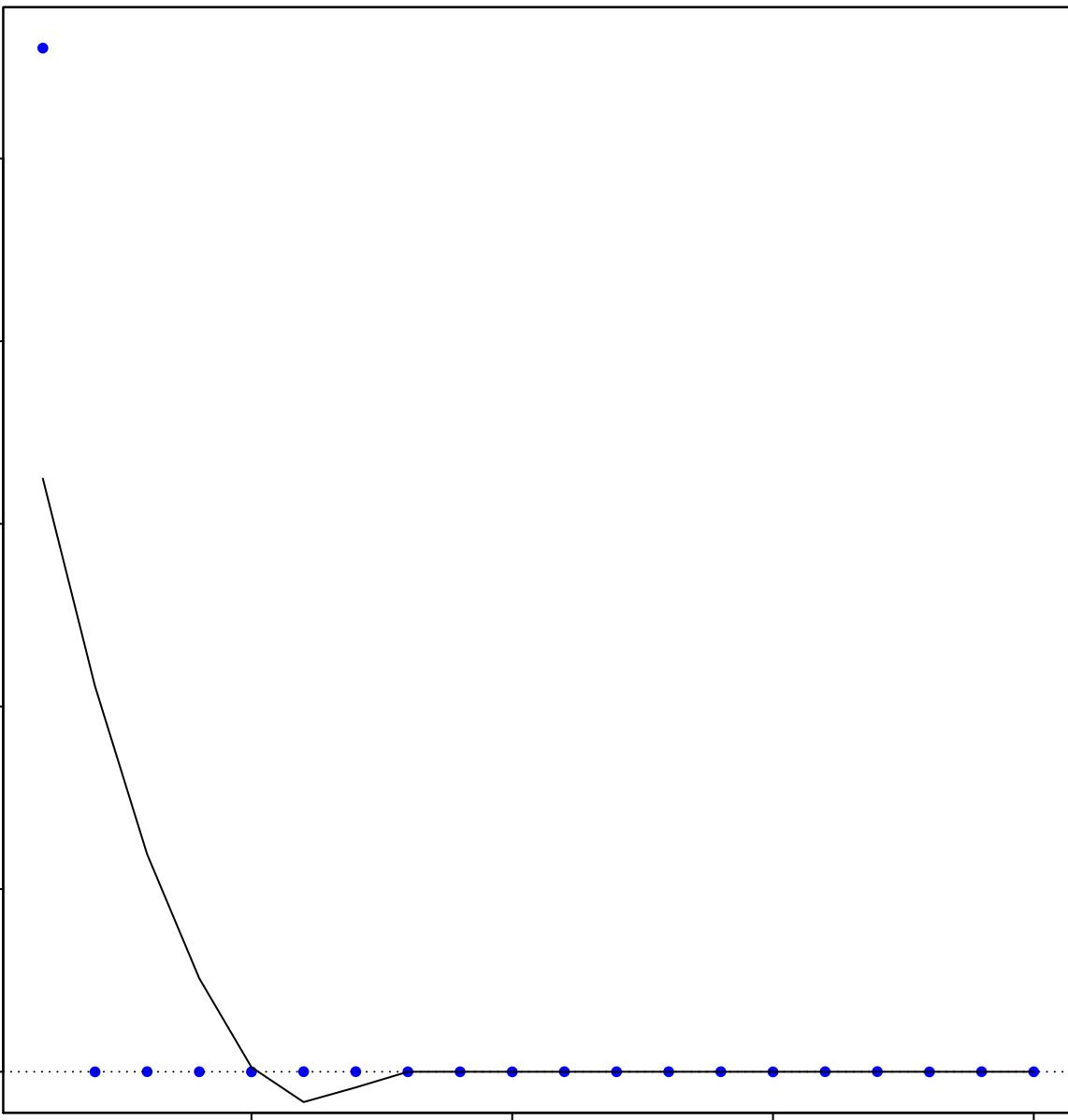


Y1

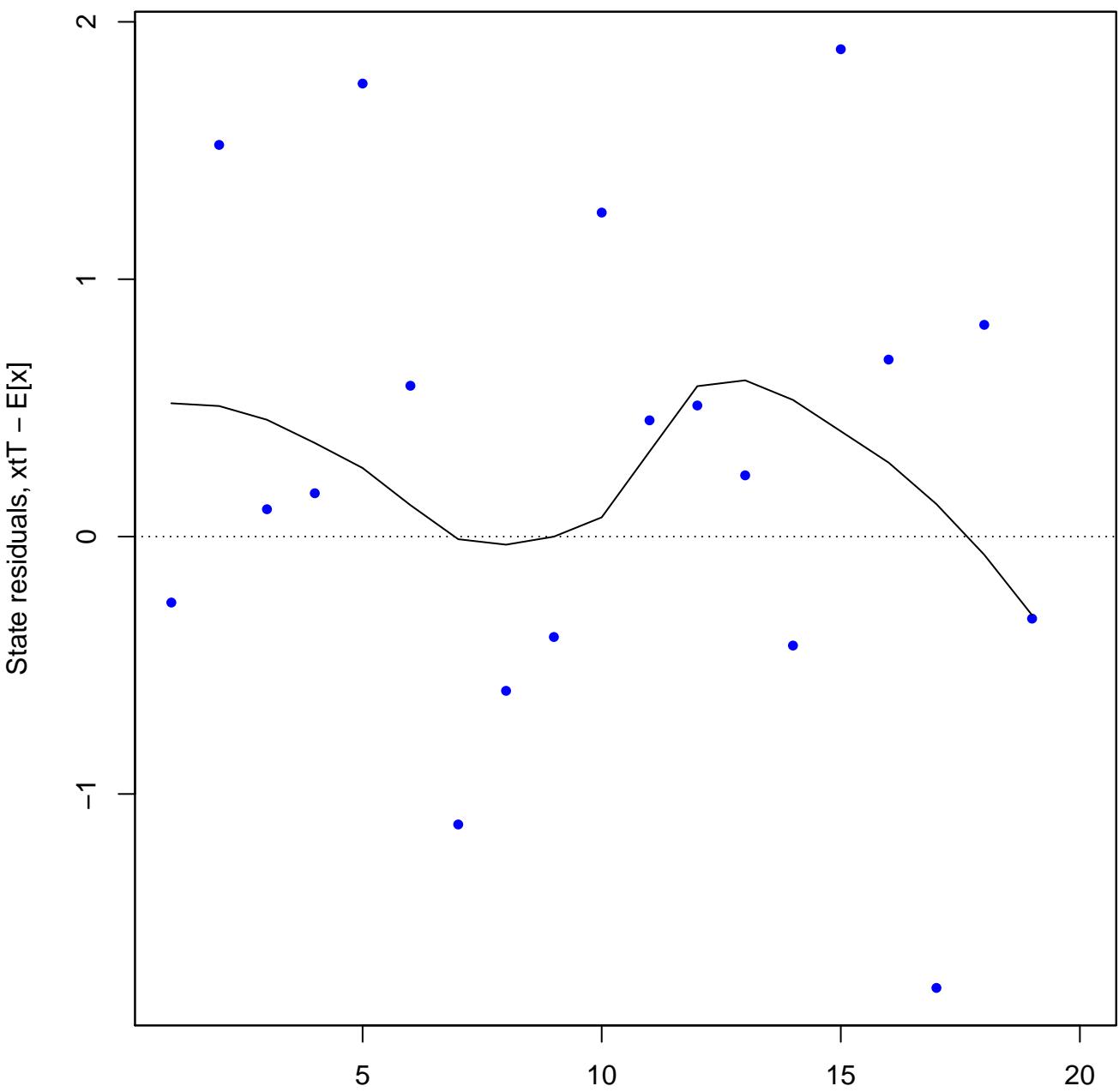
Observation residuals, $y - E[y]$

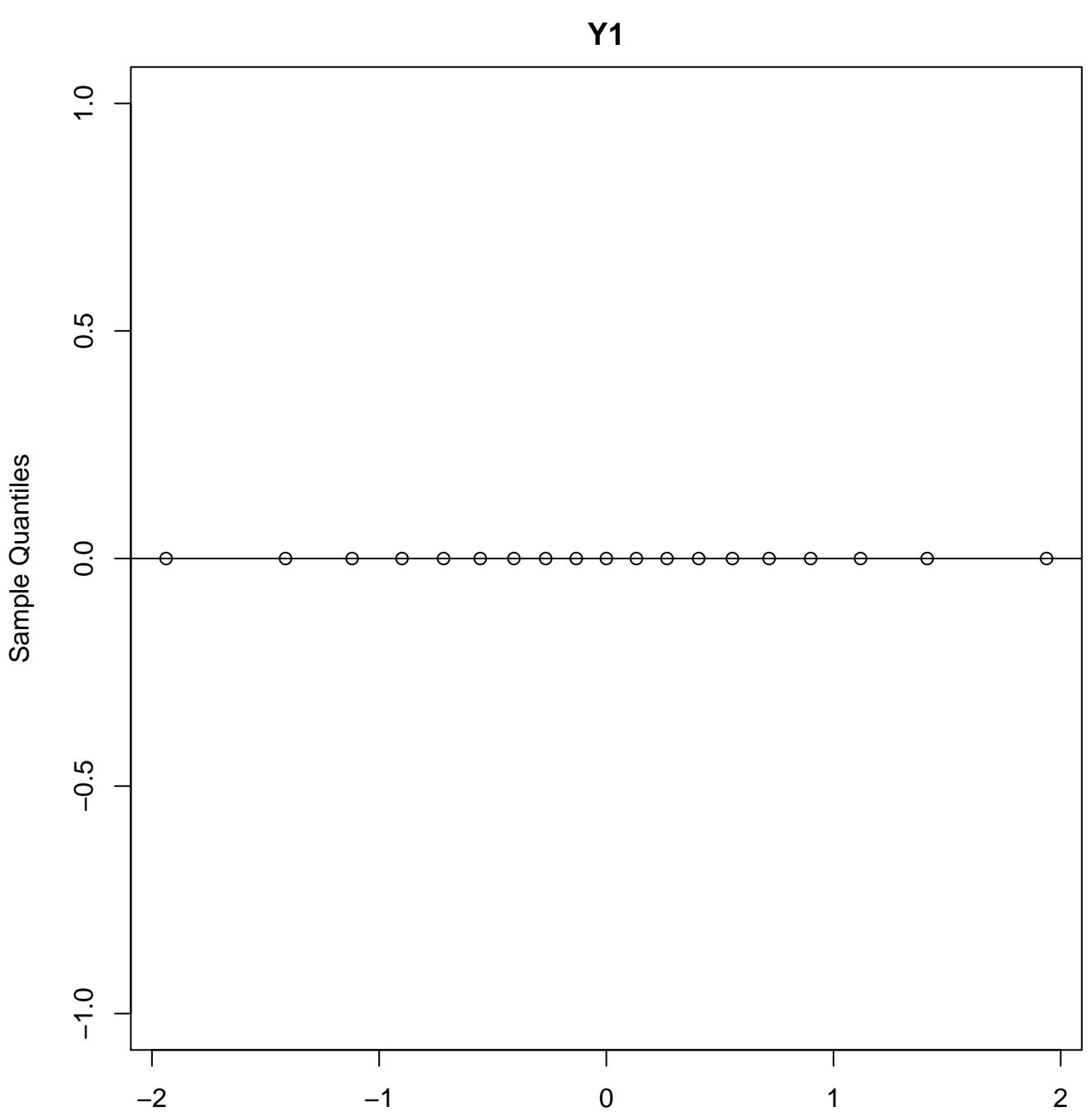
5e-05
4e-05
3e-05
2e-05
1e-05
0e+00

5 10 15 20

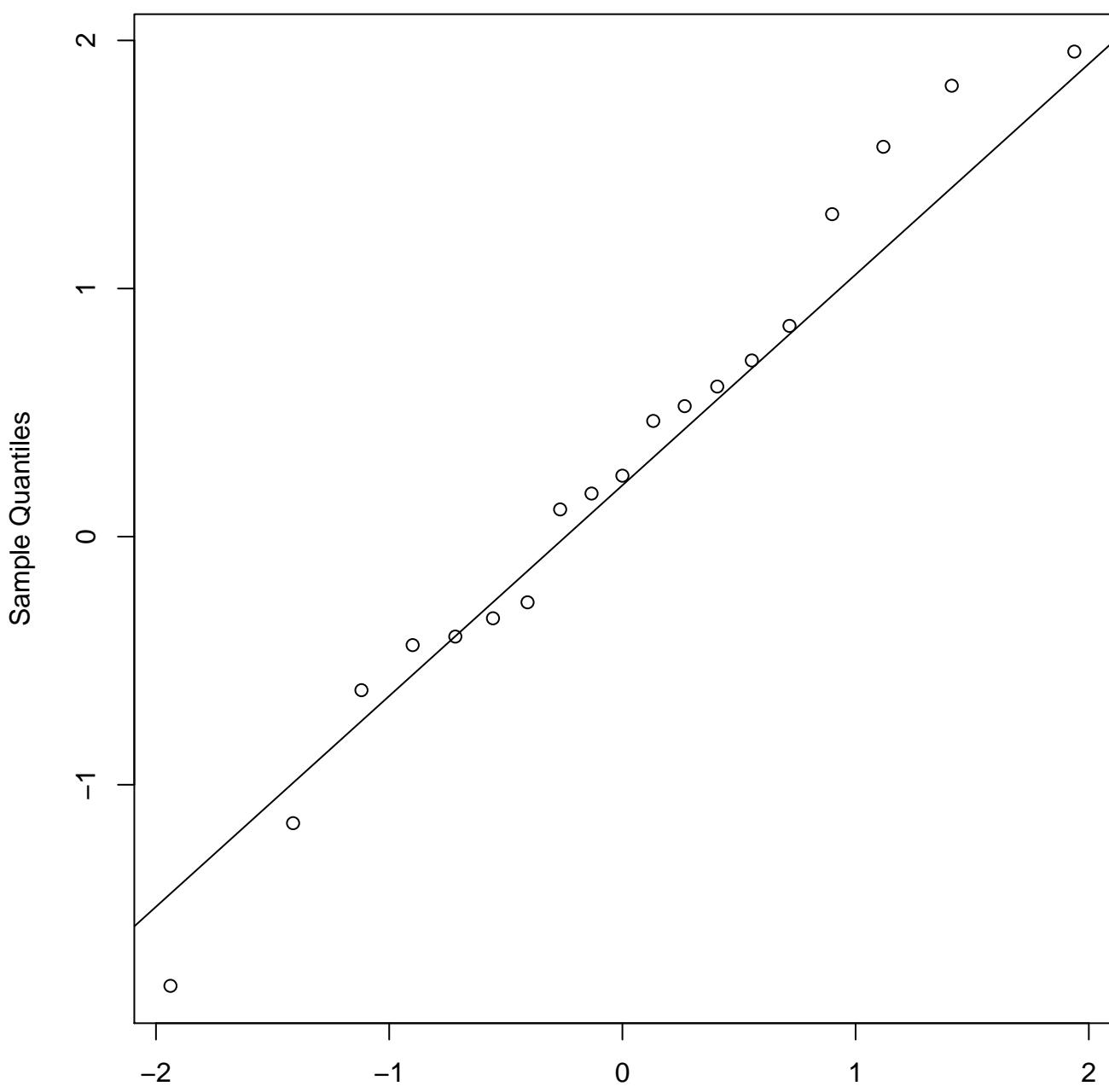


State X.Y1

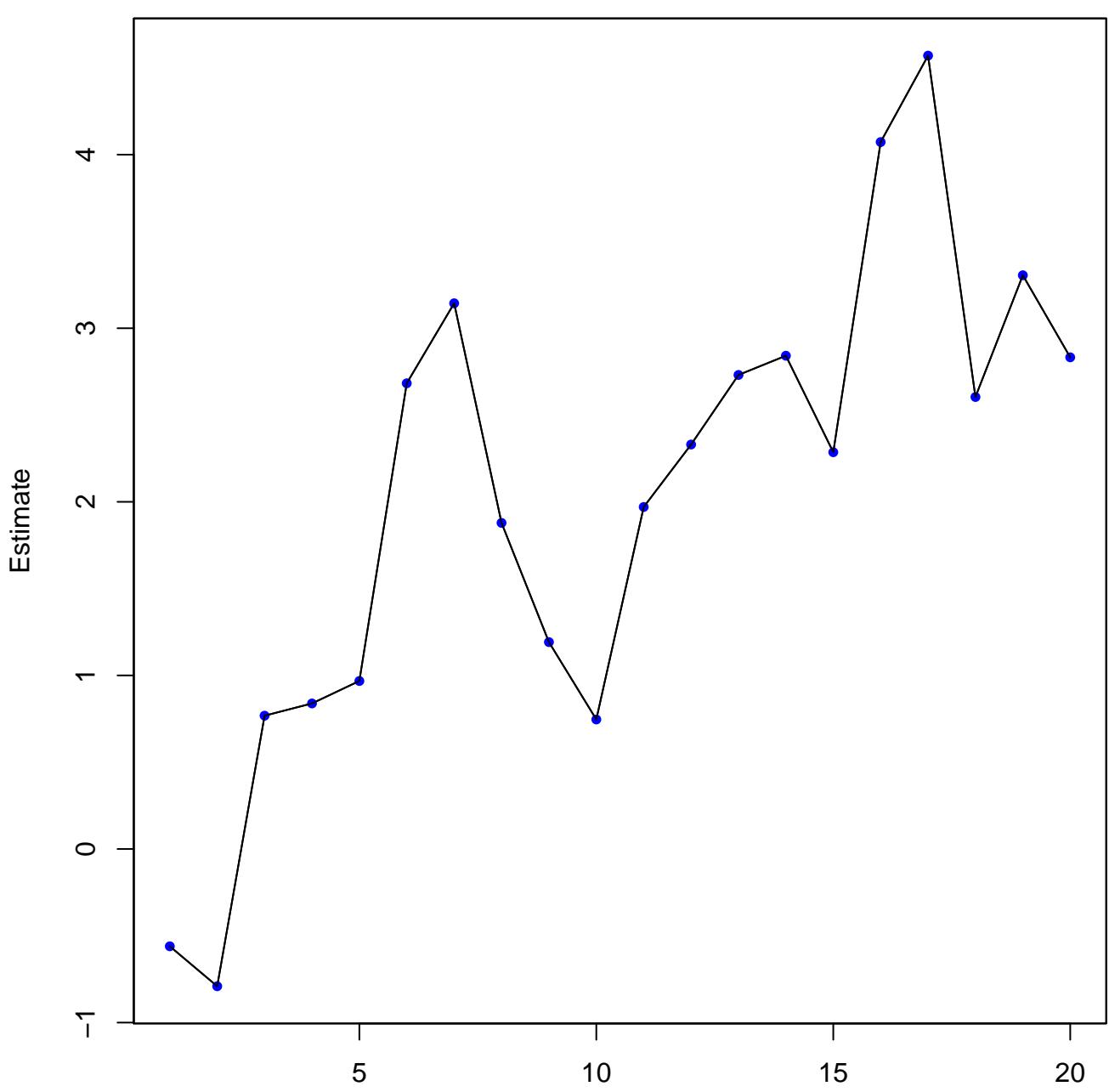




State X.Y1

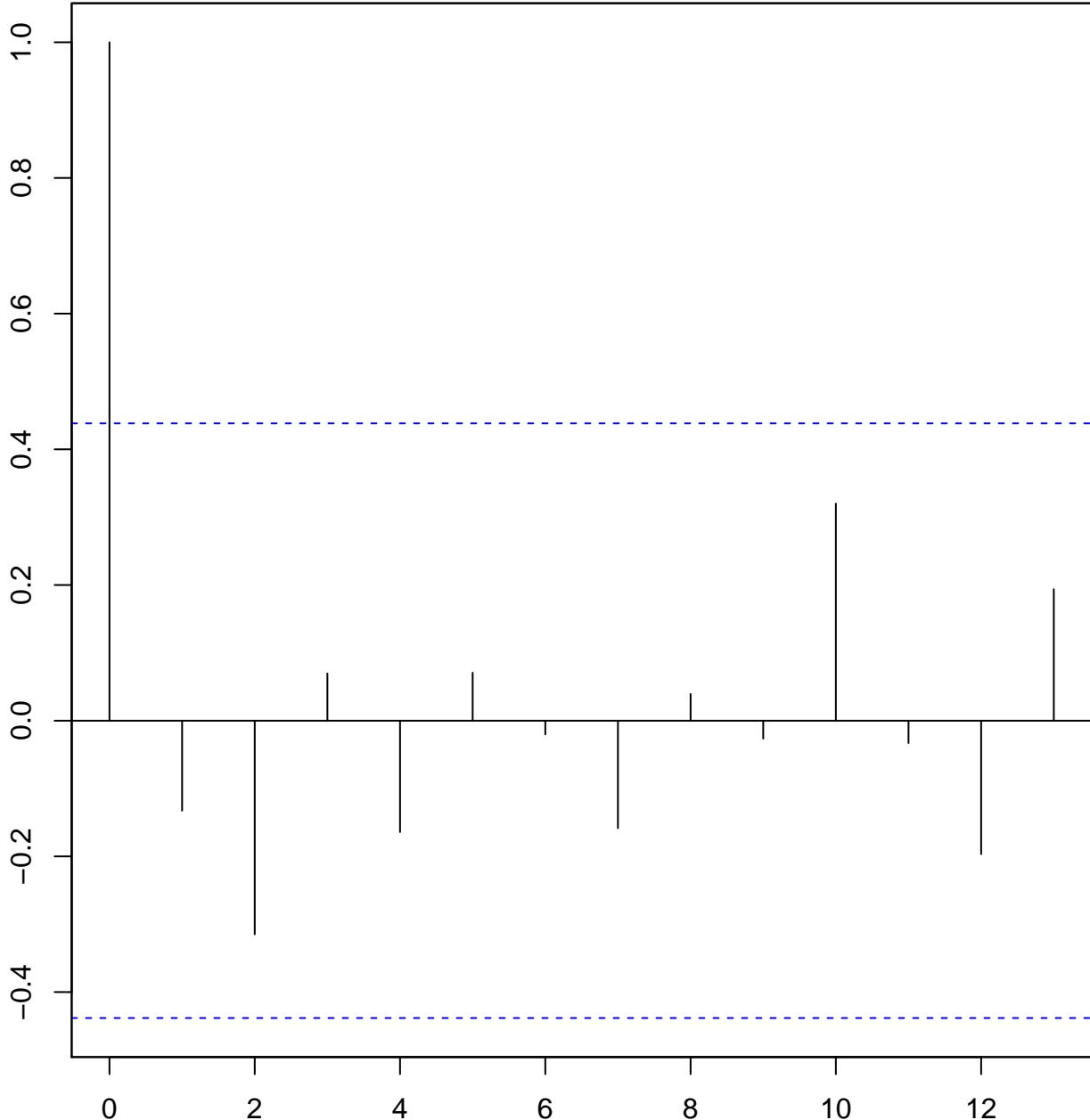


Y1 + CI

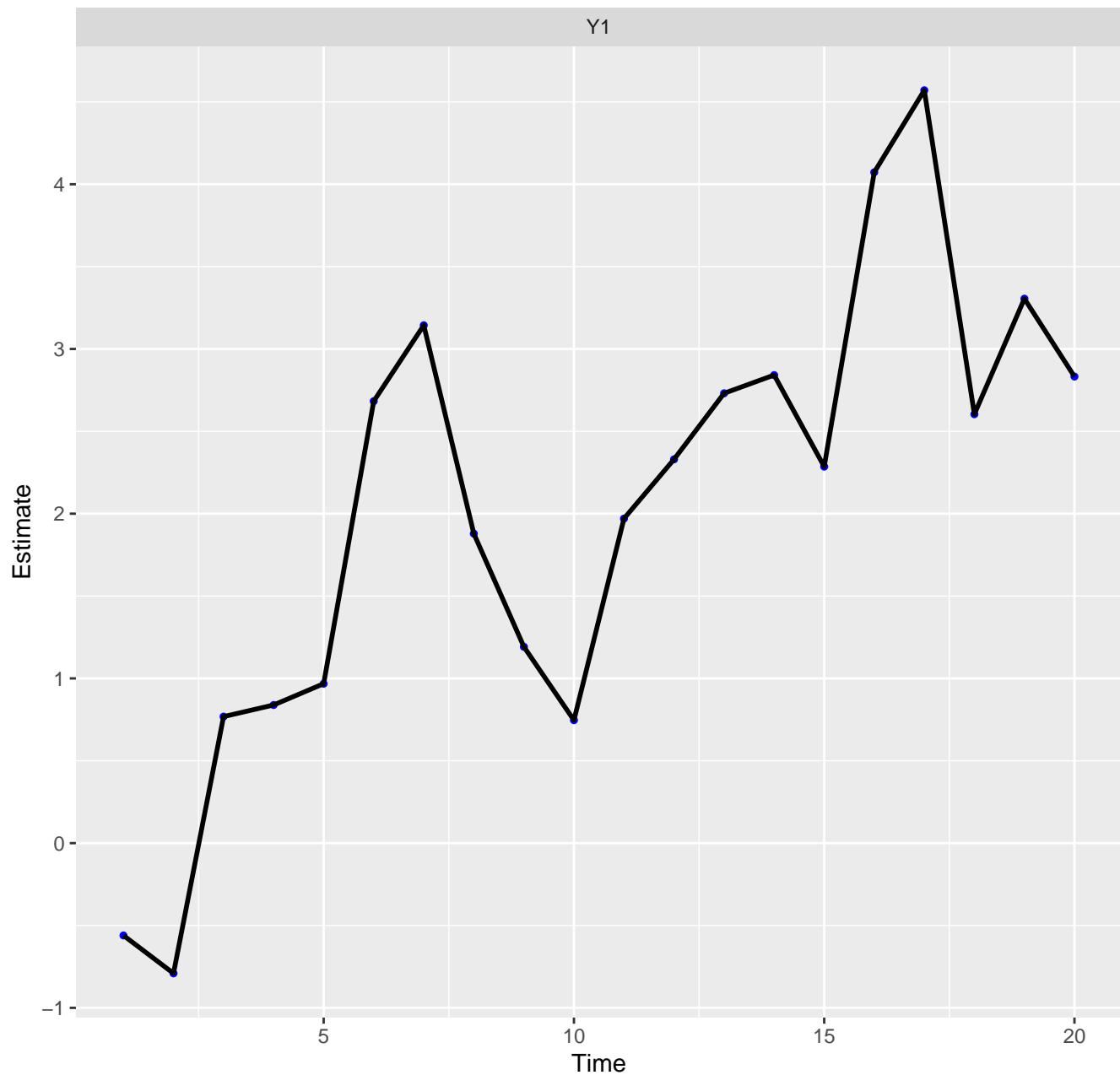


Y1

ACF



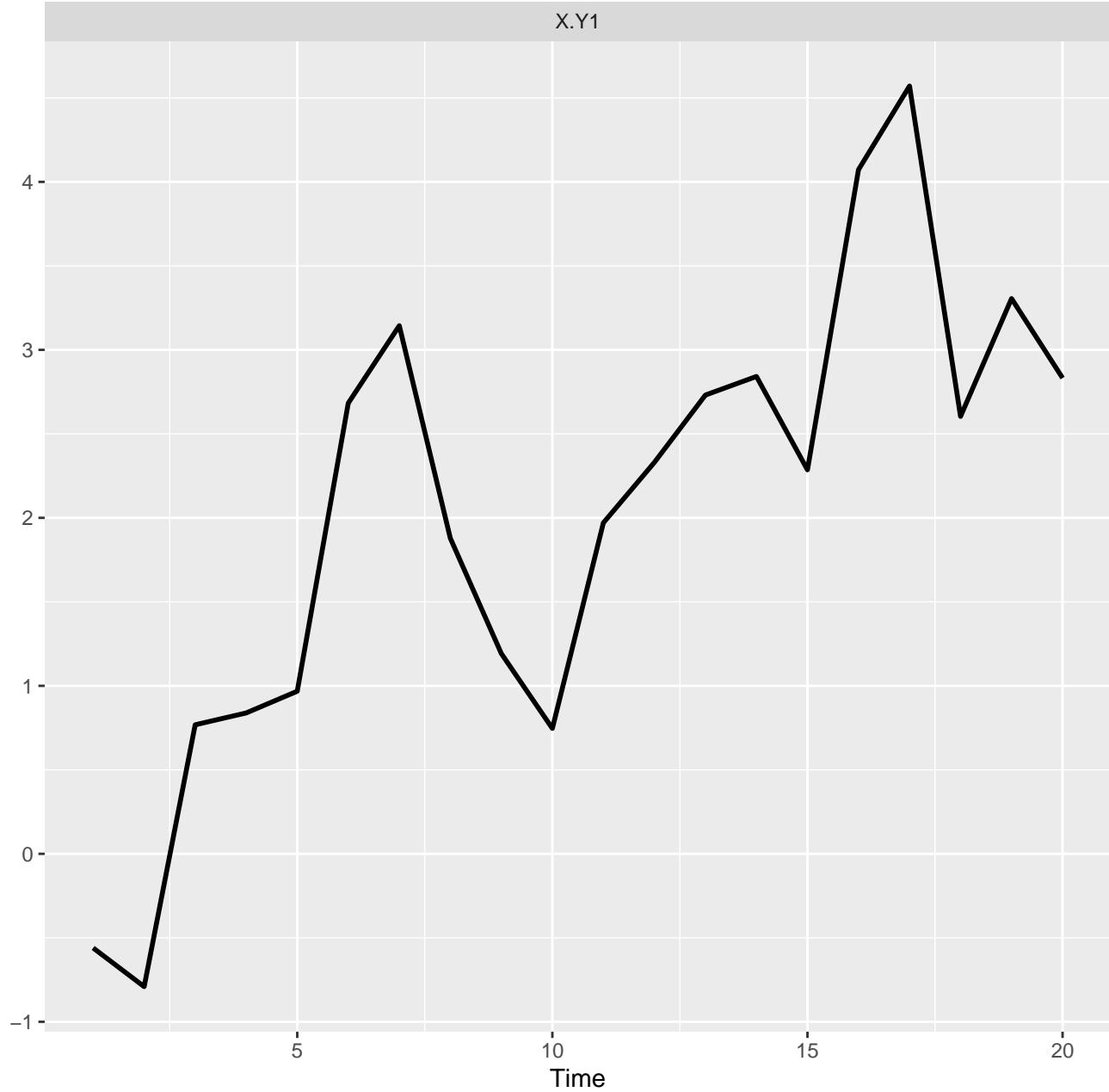
Model fitted Y + CI



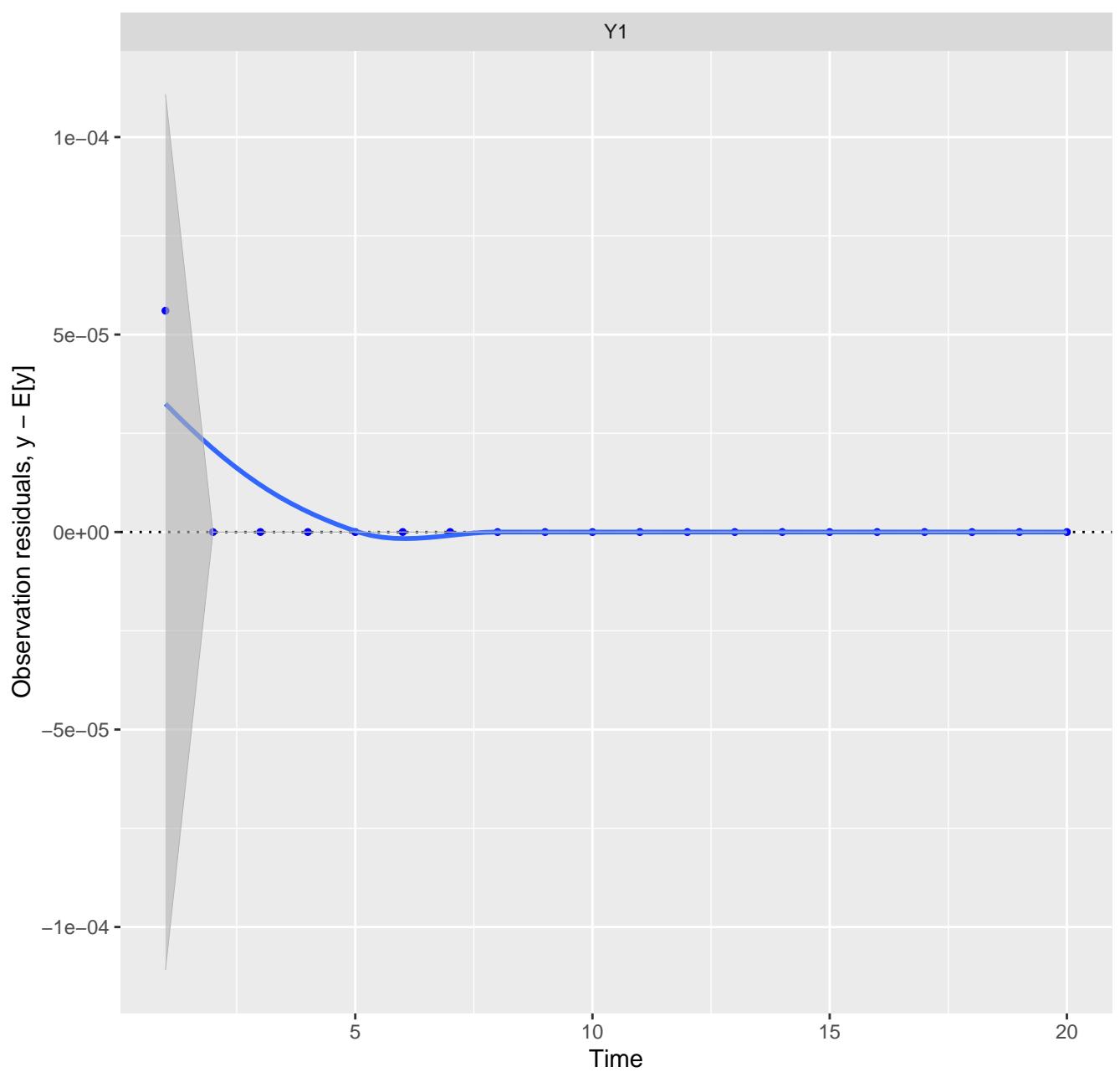
States

X.Y1

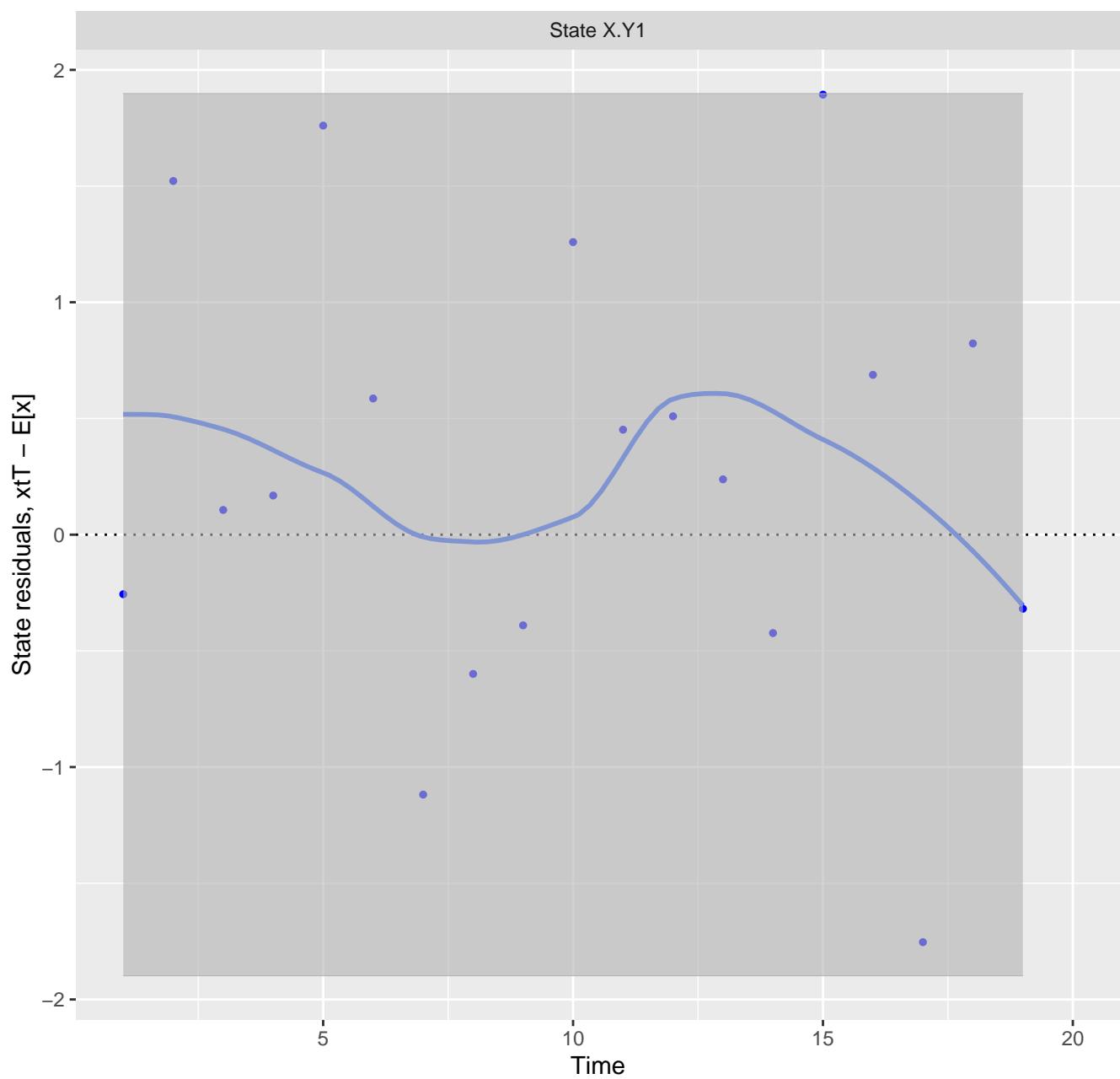
Estimate



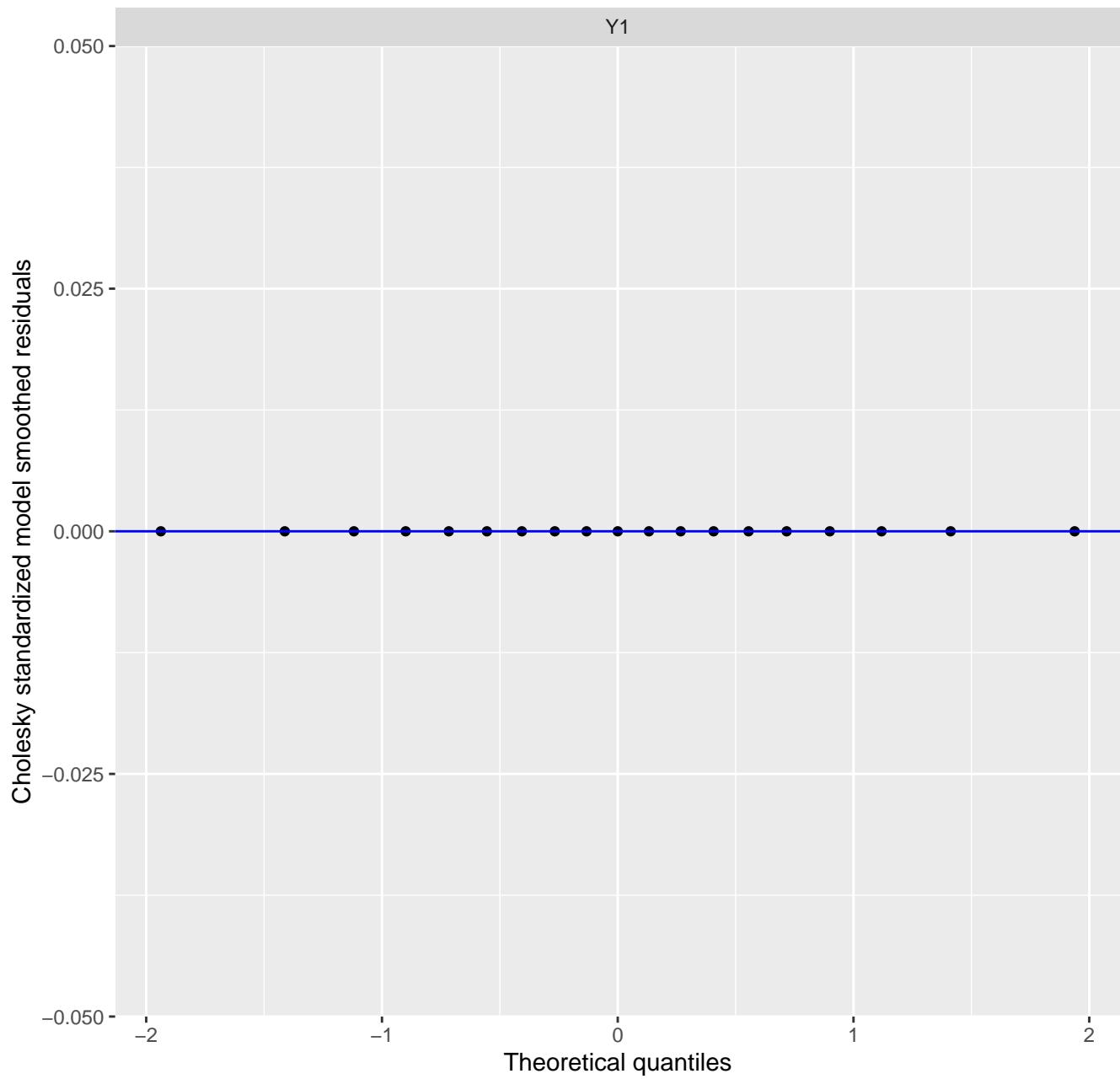
Model residuals



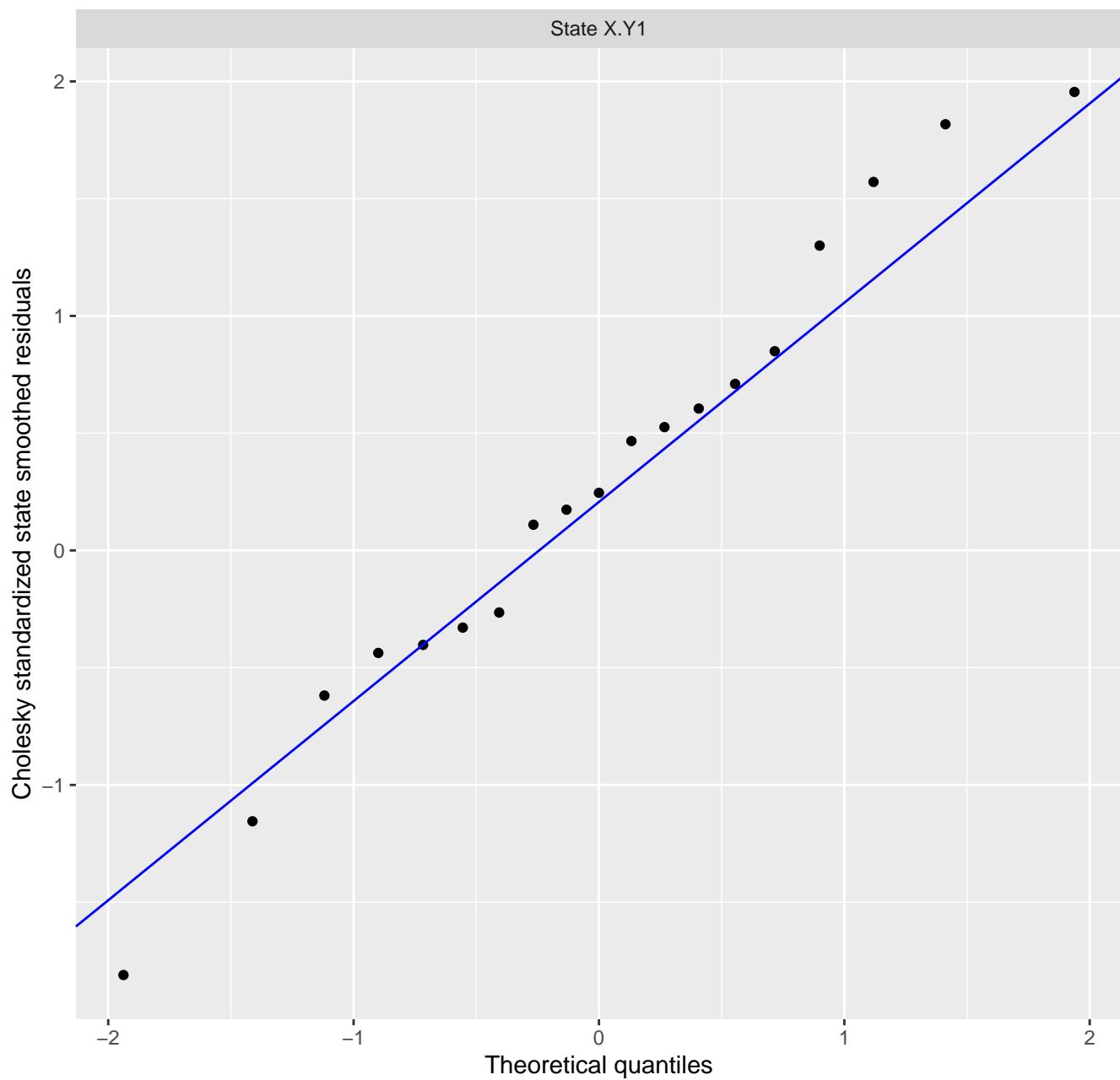
State residuals



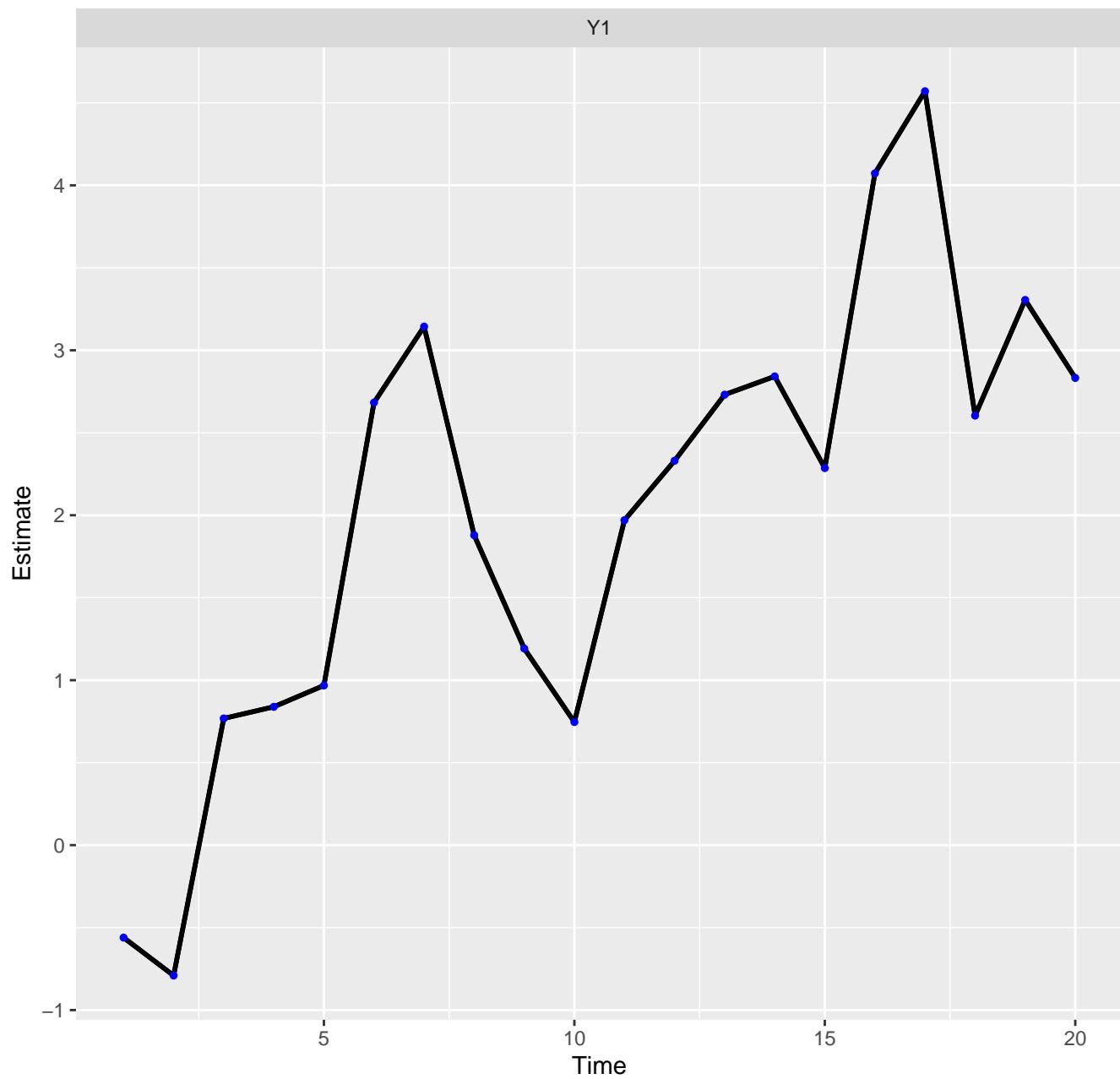
Model residuals normality test



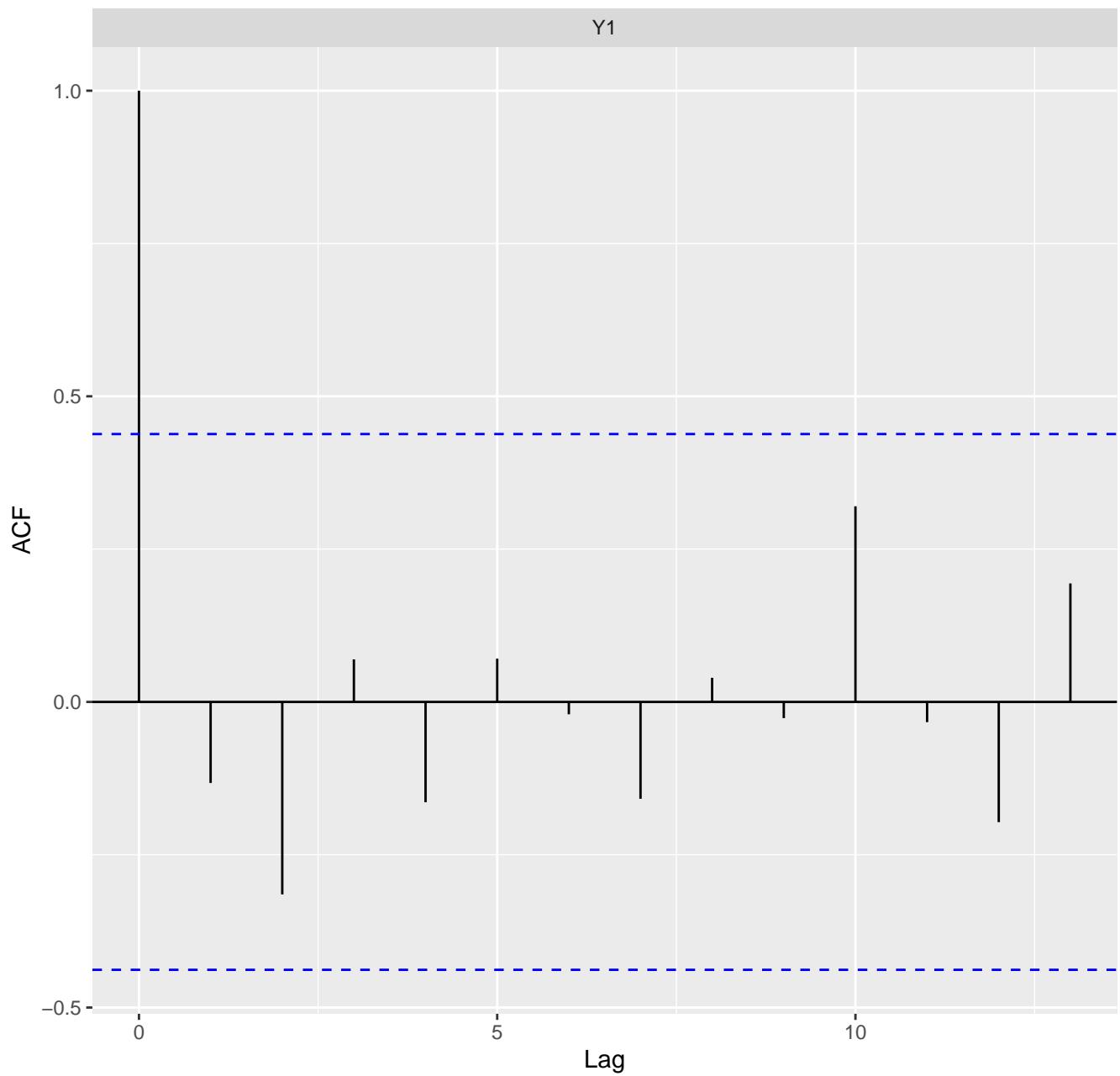
State residuals normality test



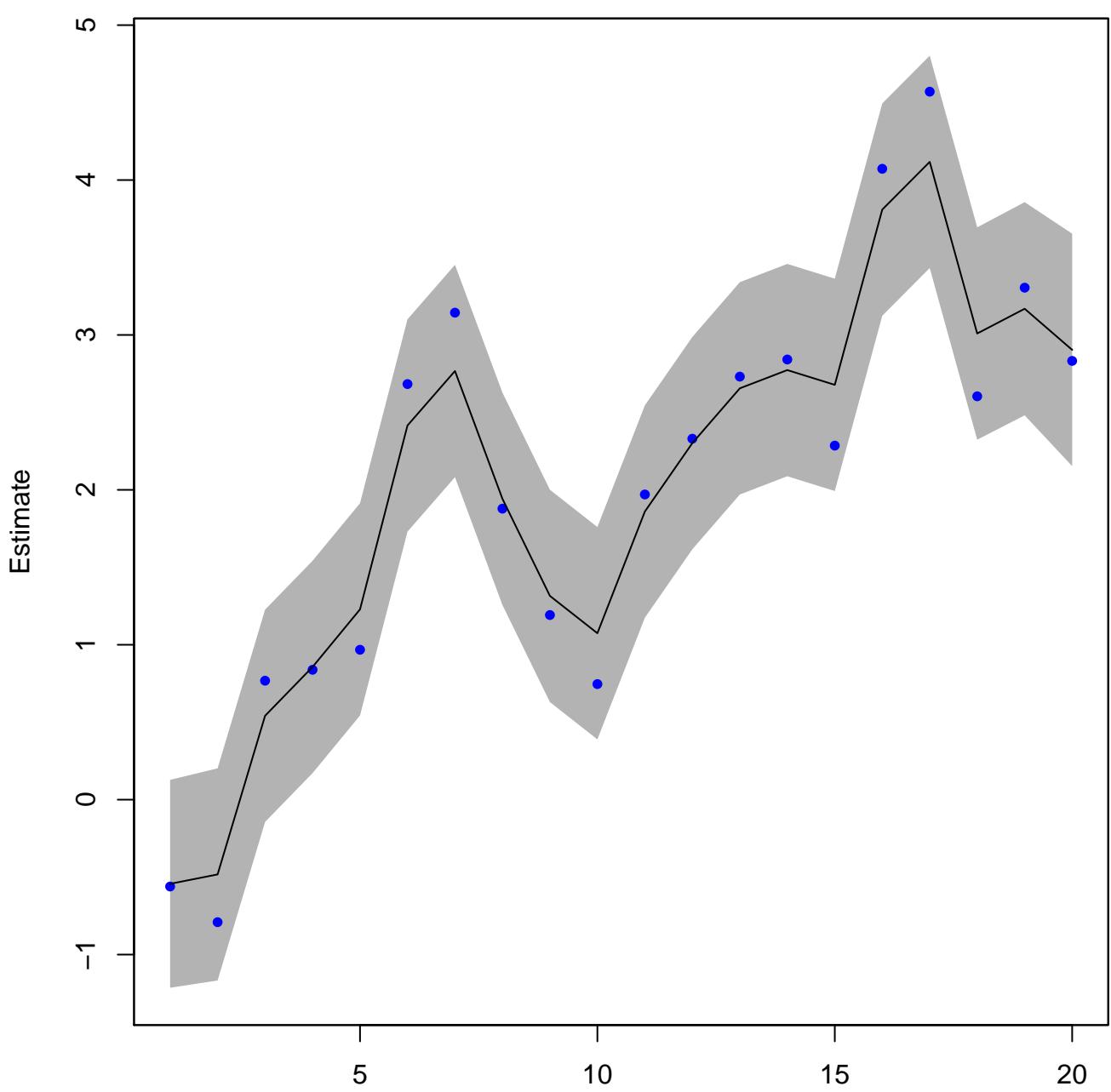
Expected value of Y conditioned on data



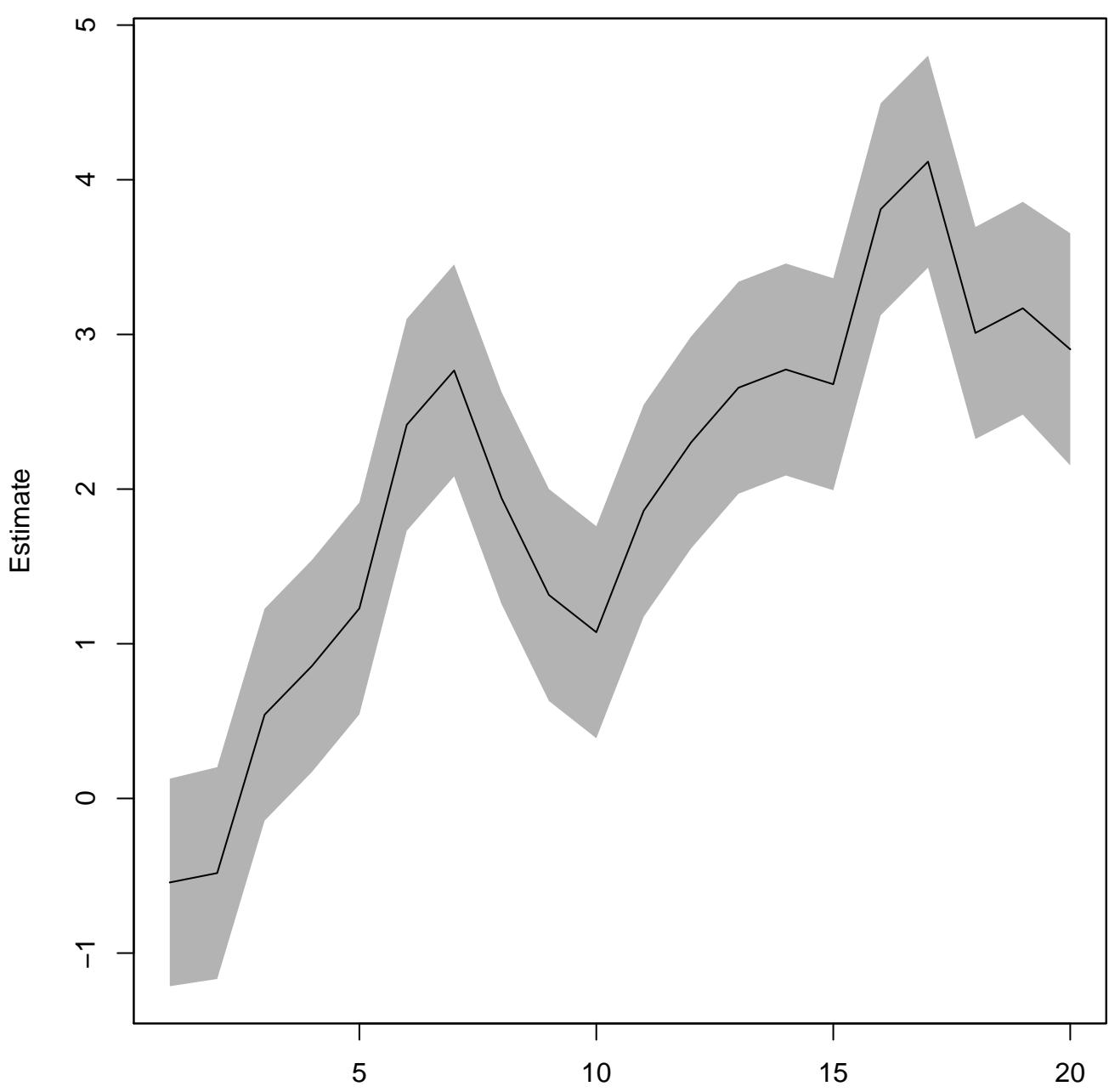
Model innovations residuals ACF

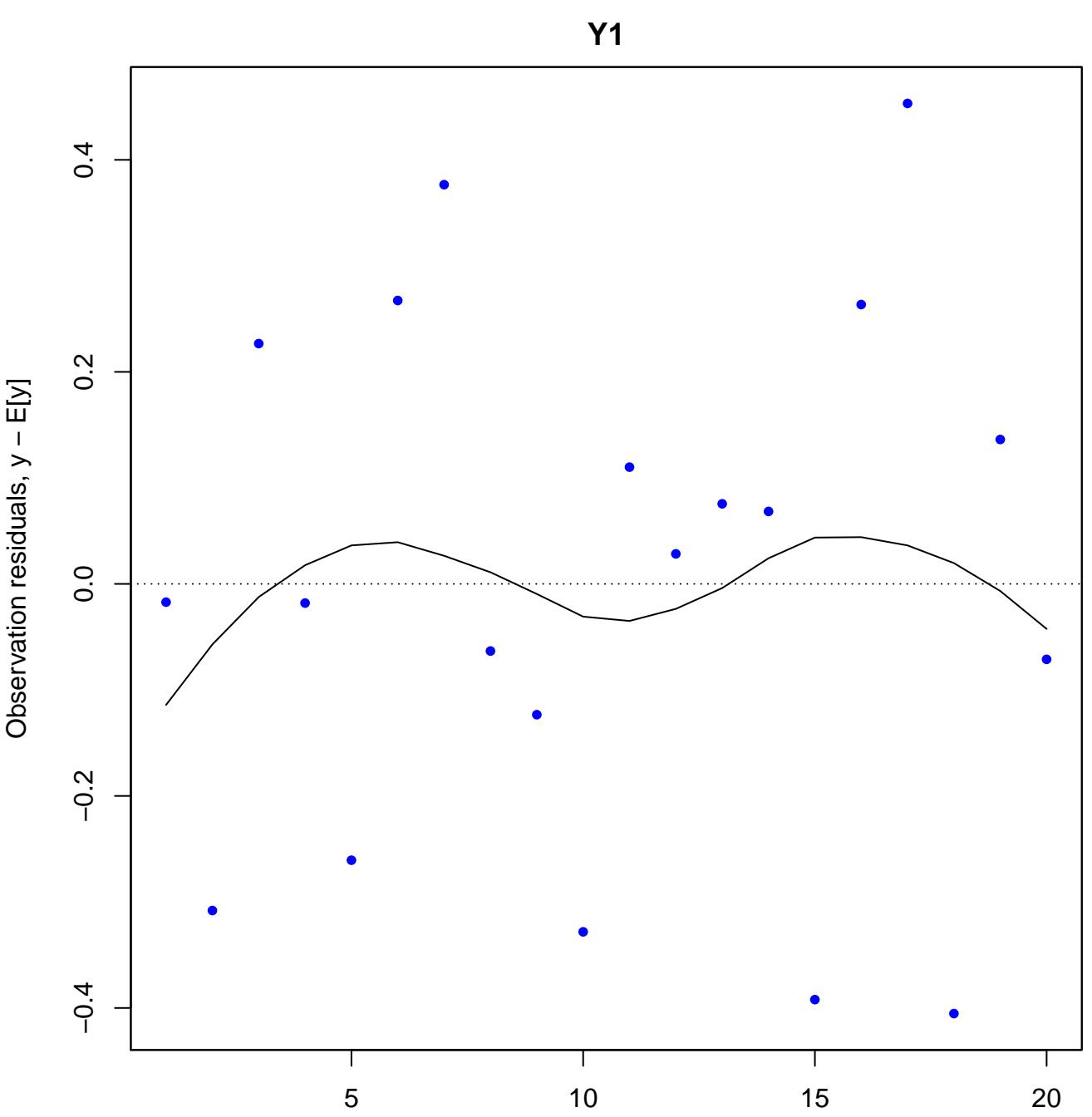


Y1 + CI

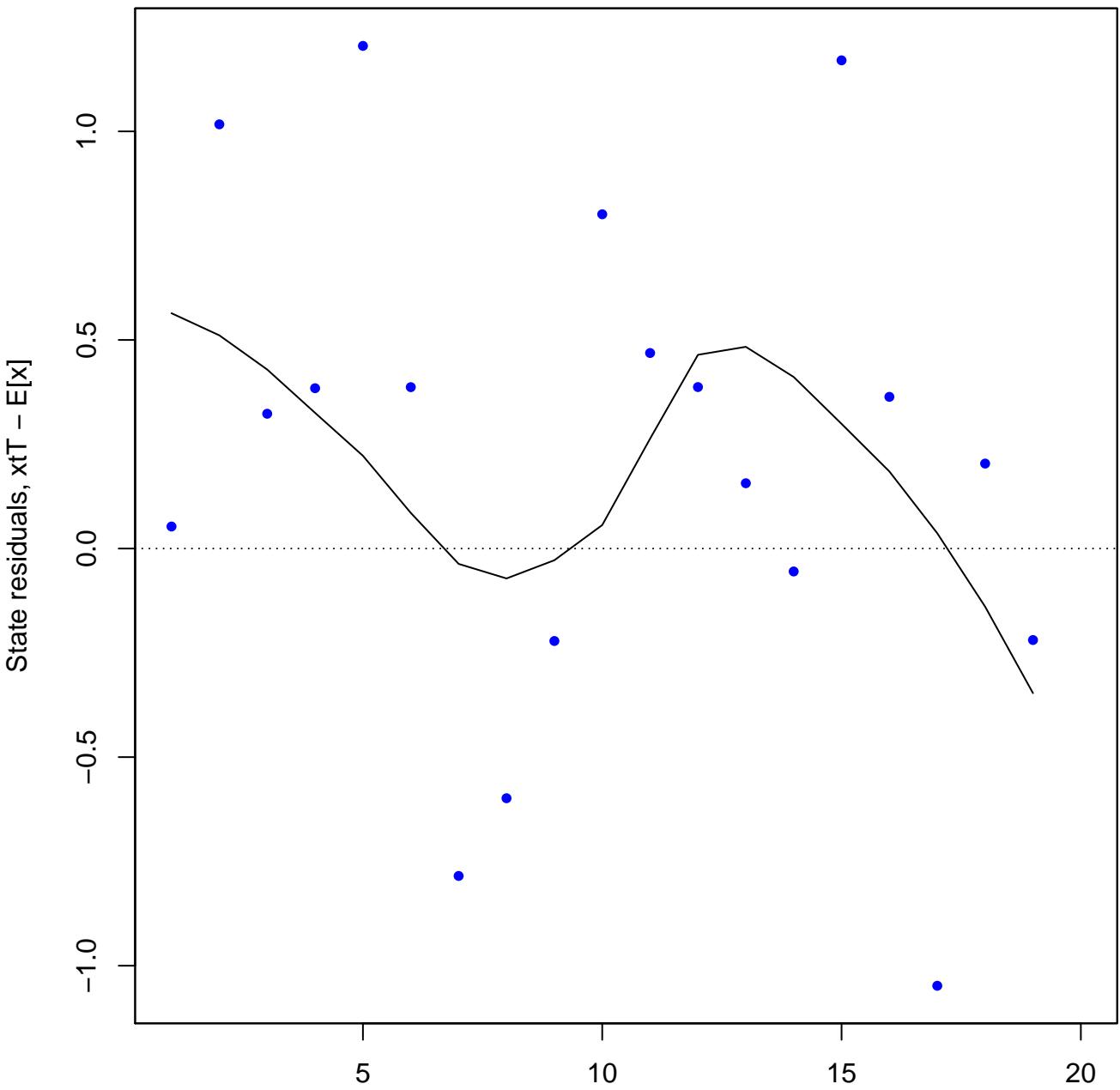


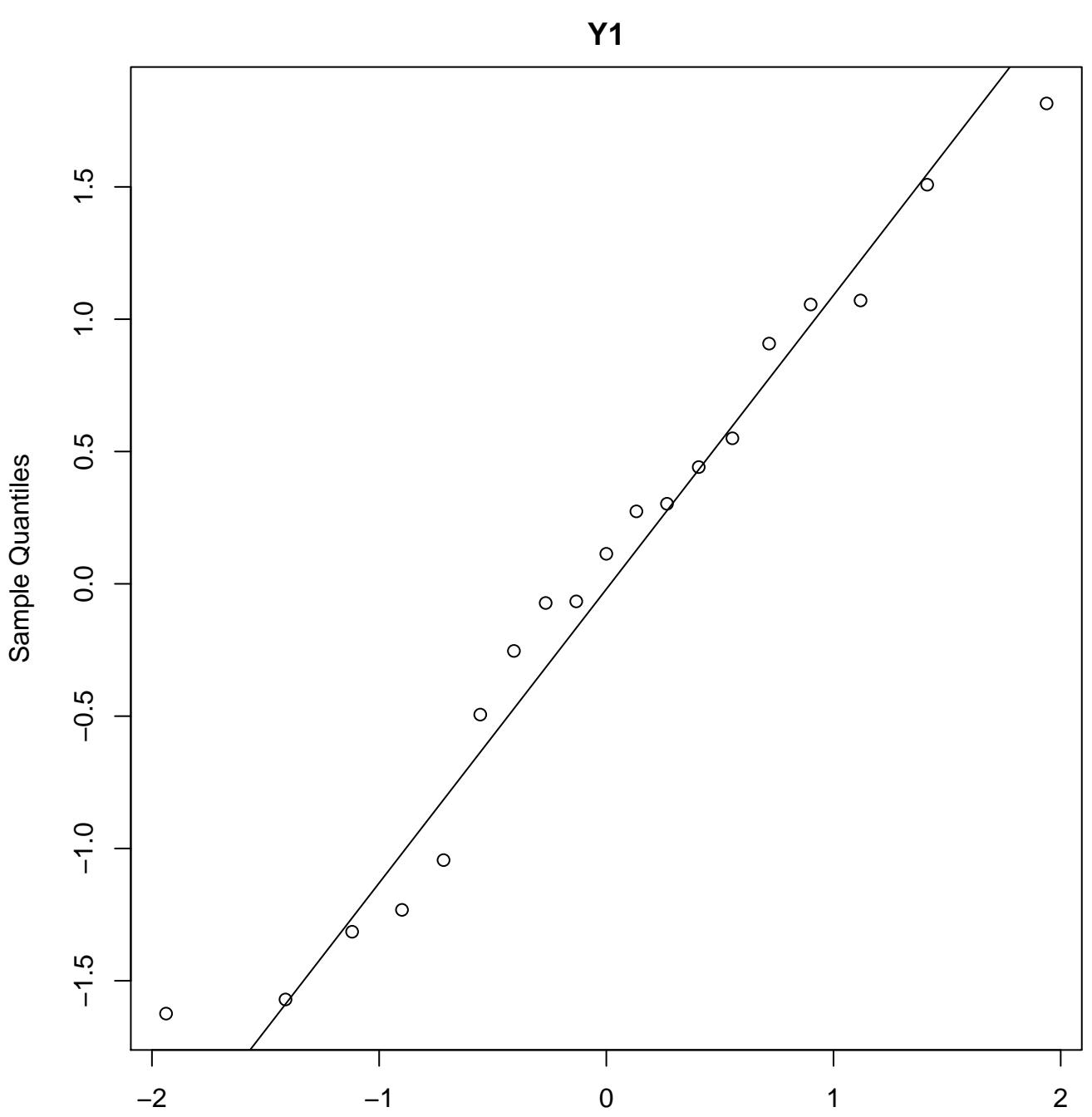
State X.Y1



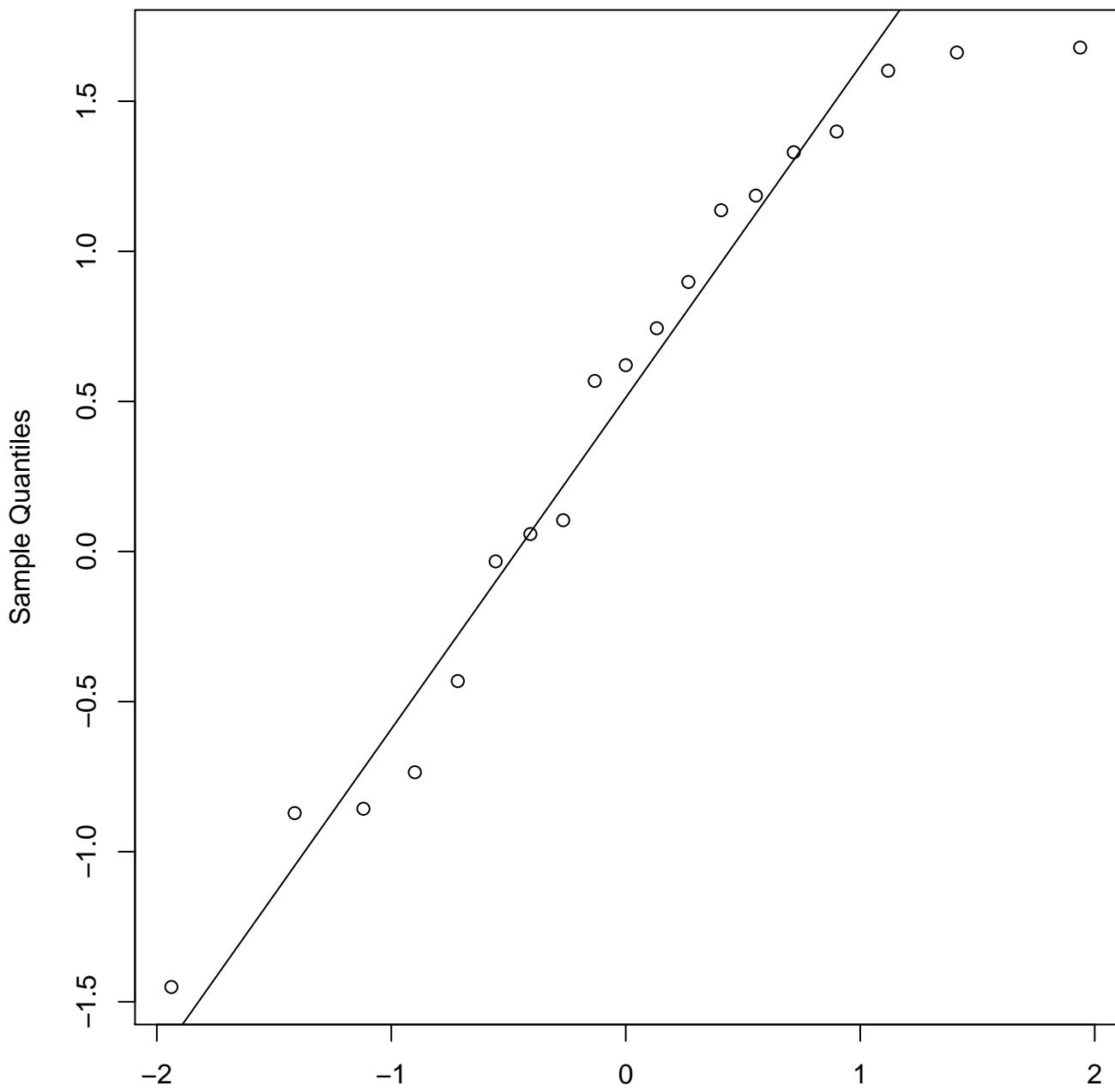


State X.Y1

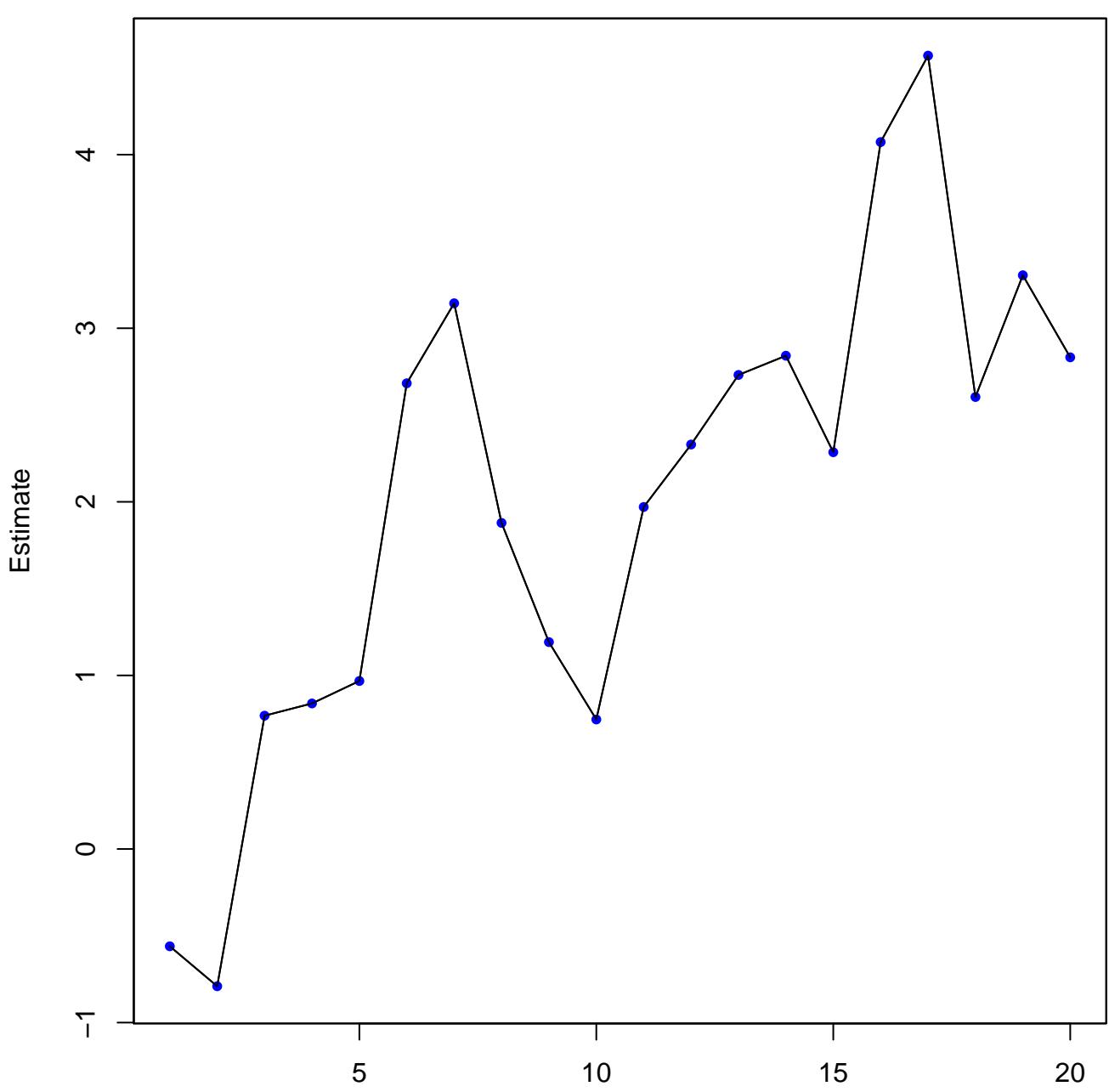




State X.Y1

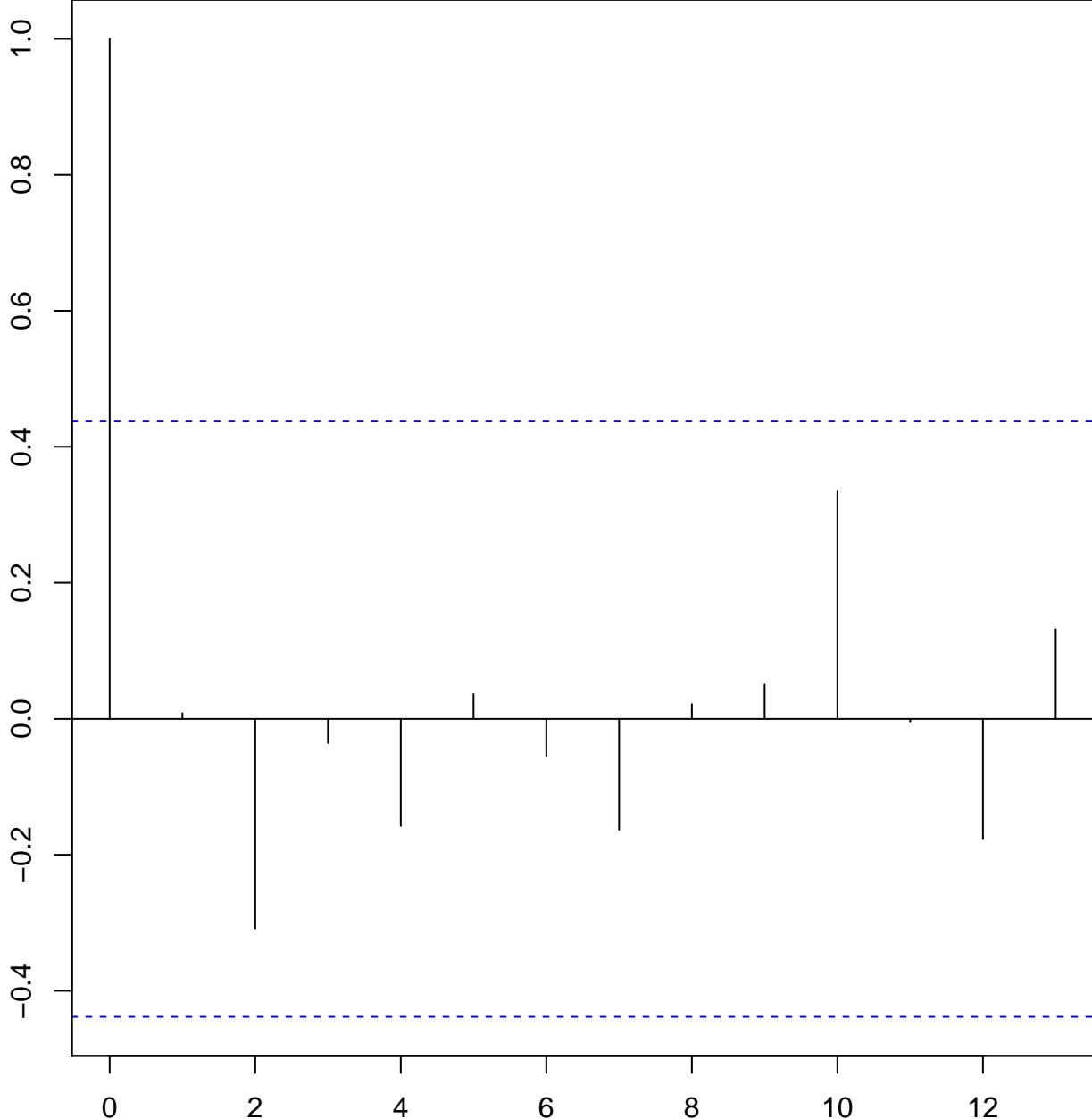


Y1 + CI



Y1

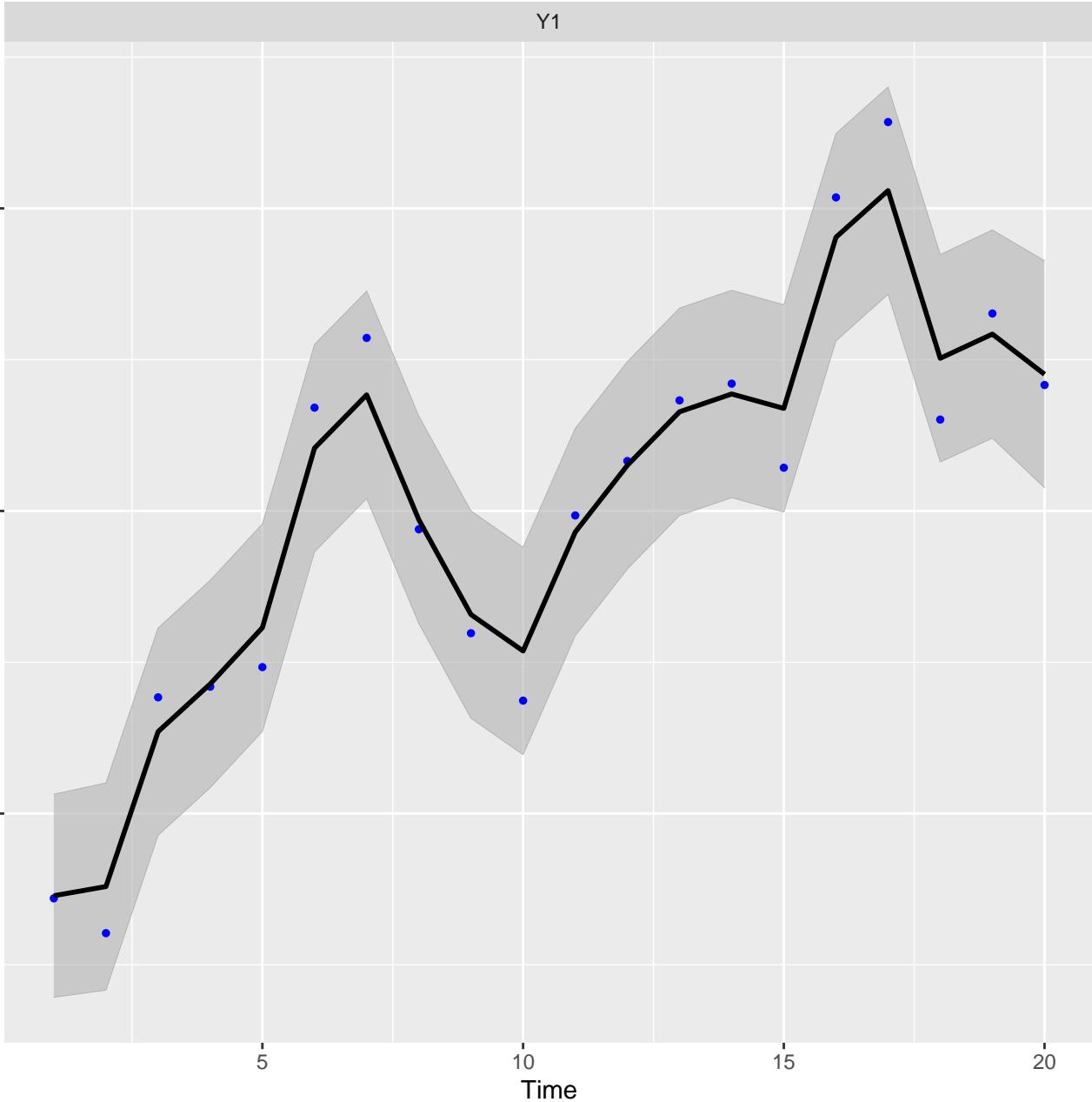
ACF



Model fitted Y + CI

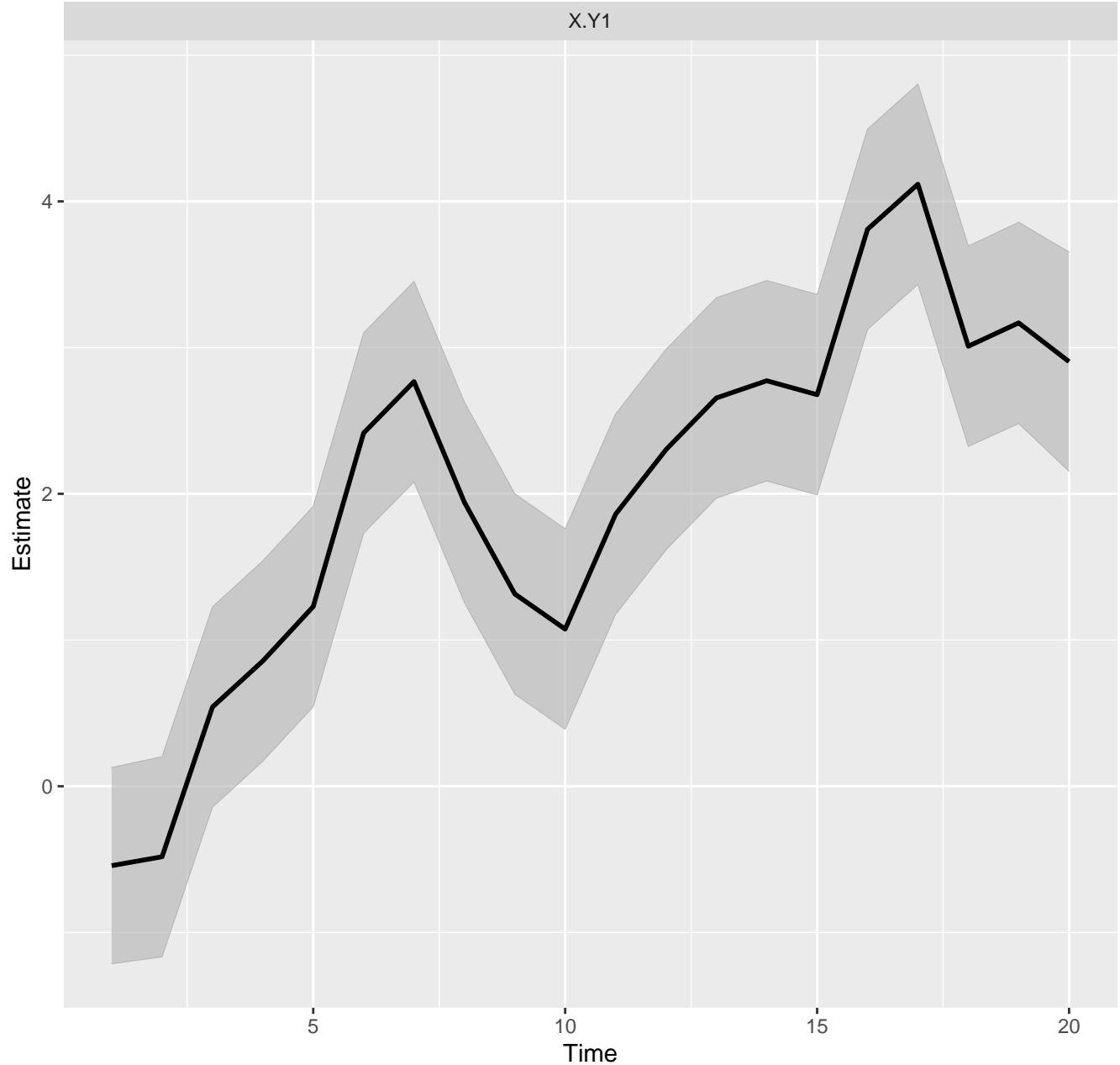
Y1

Estimate

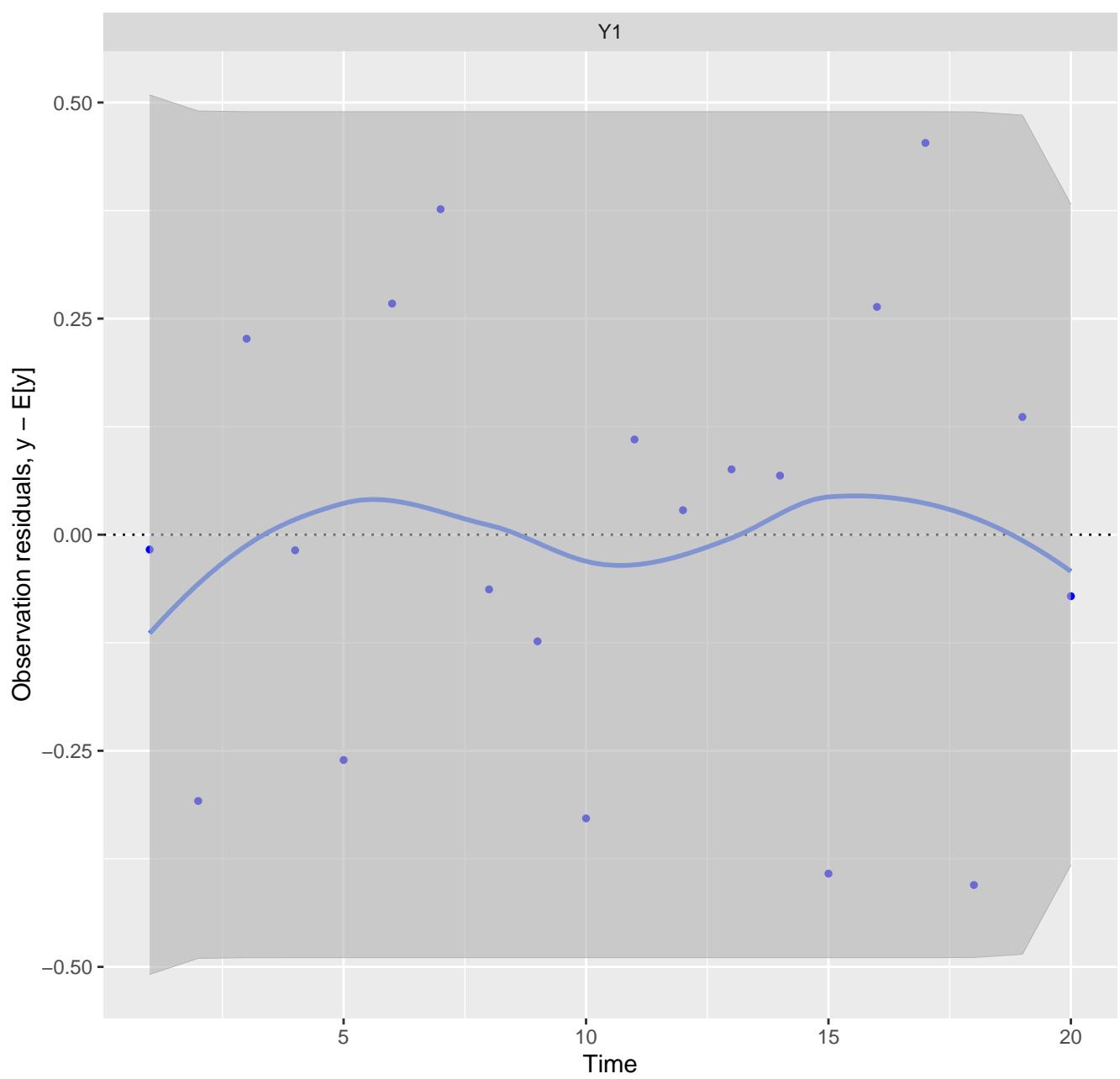


States

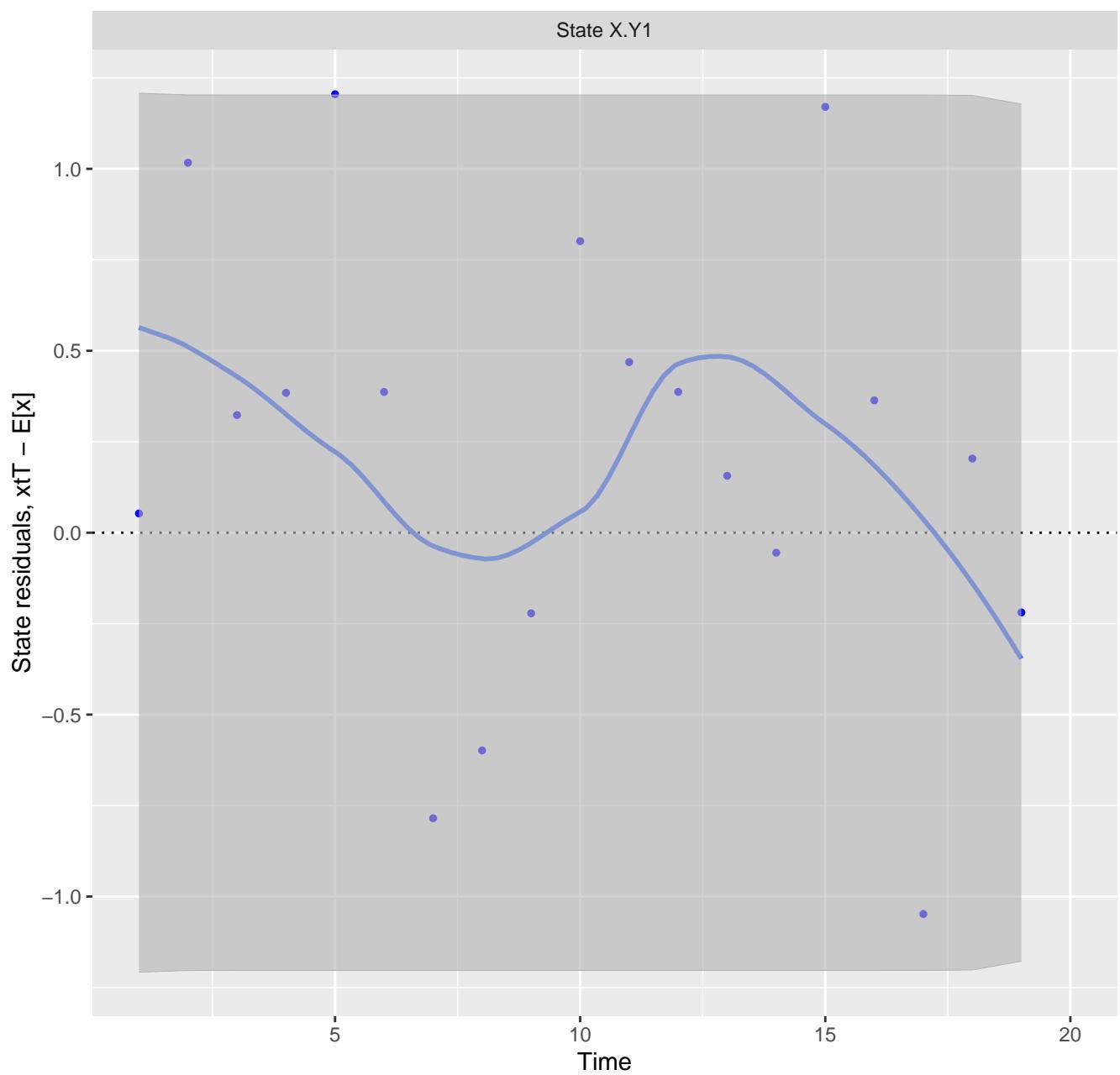
X.Y1



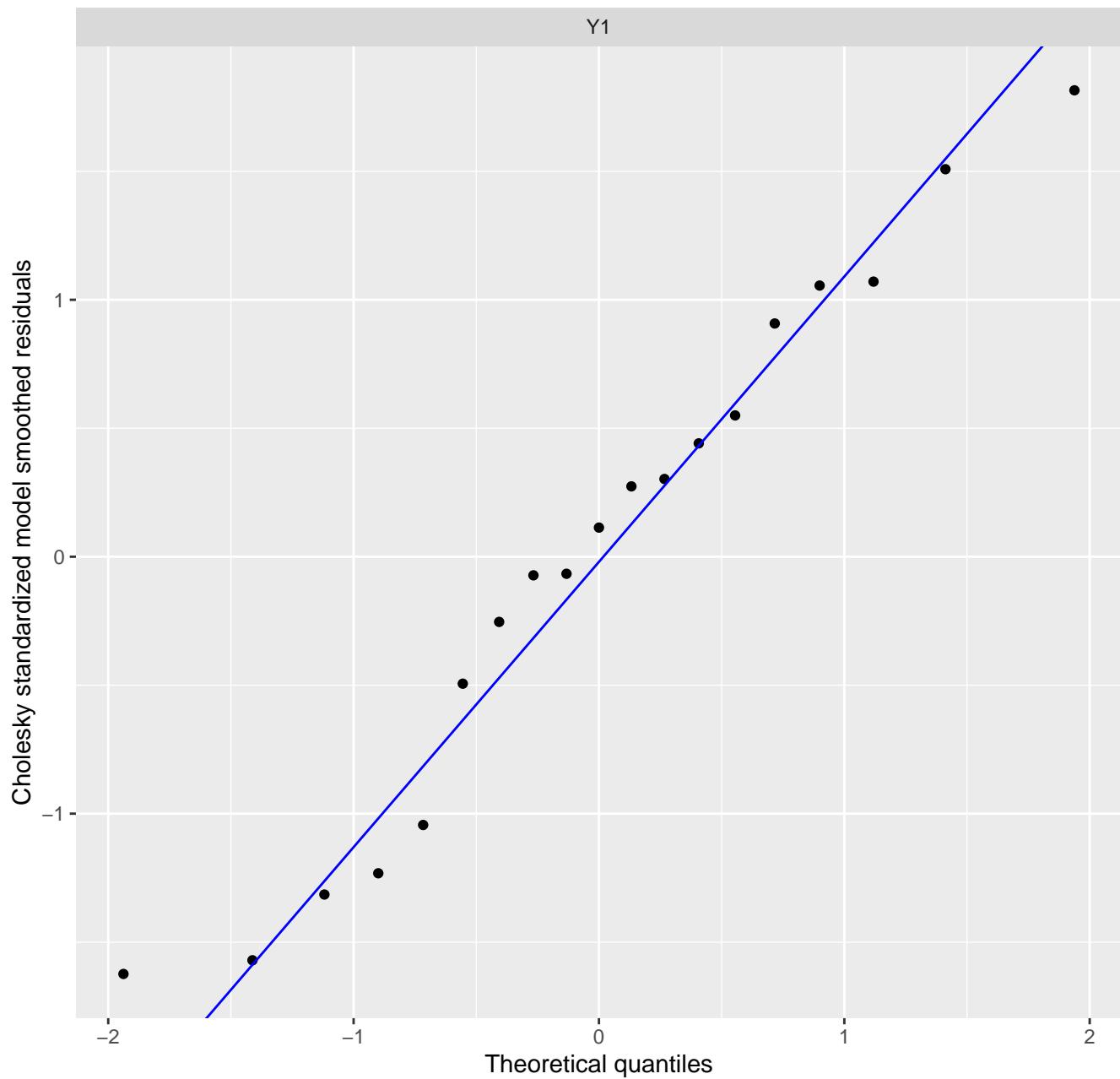
Model residuals



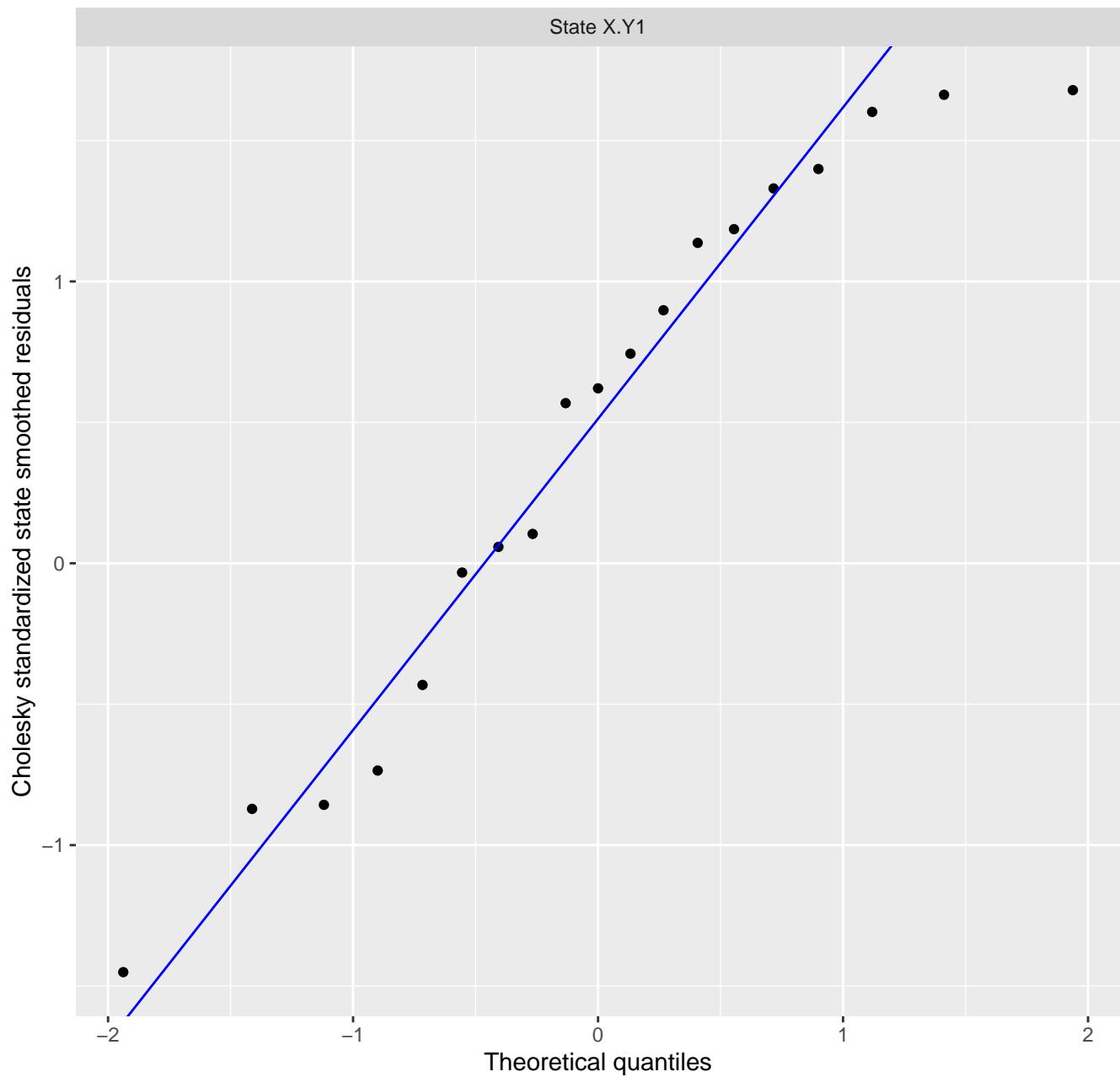
State residuals



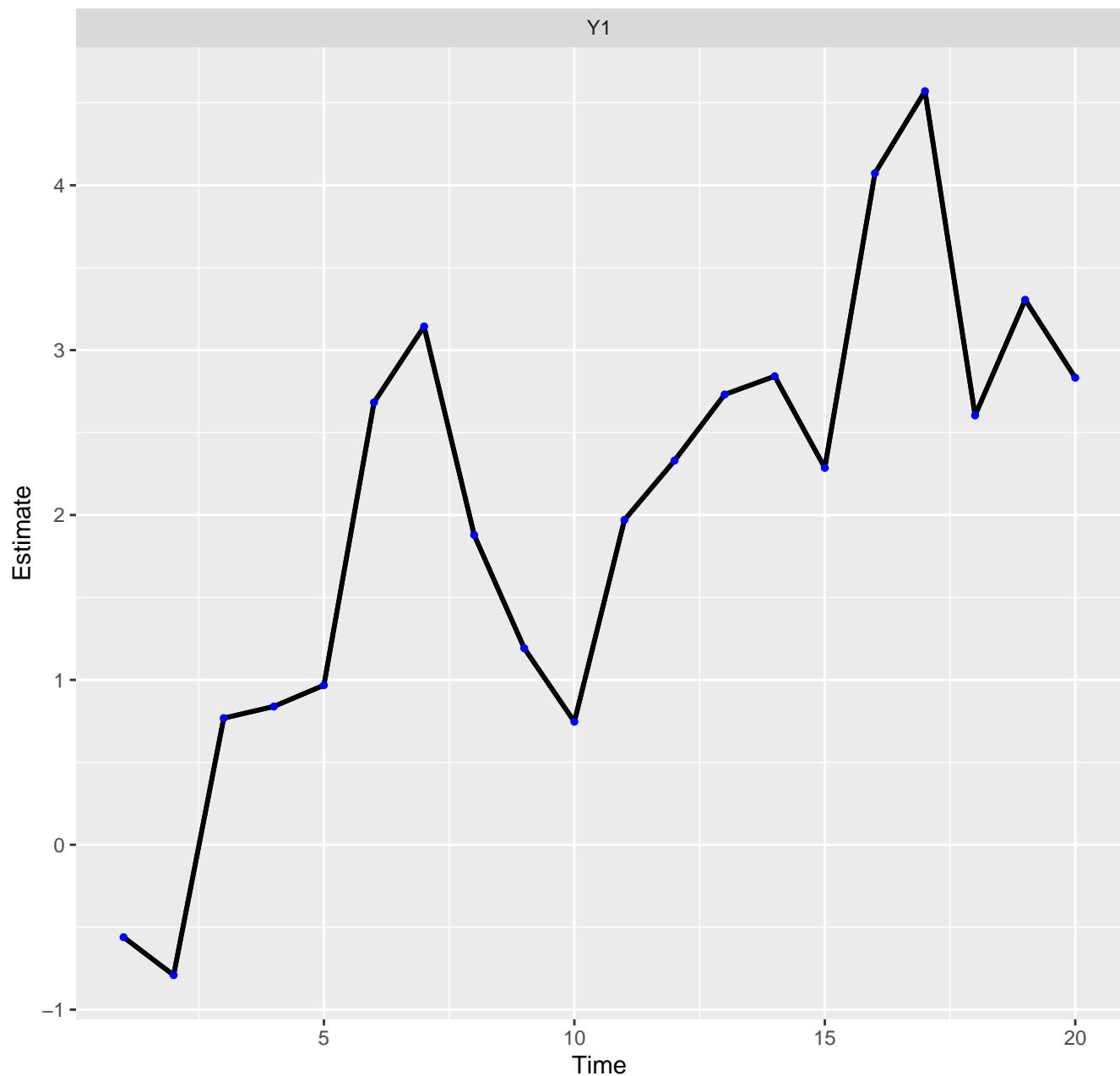
Model residuals normality test



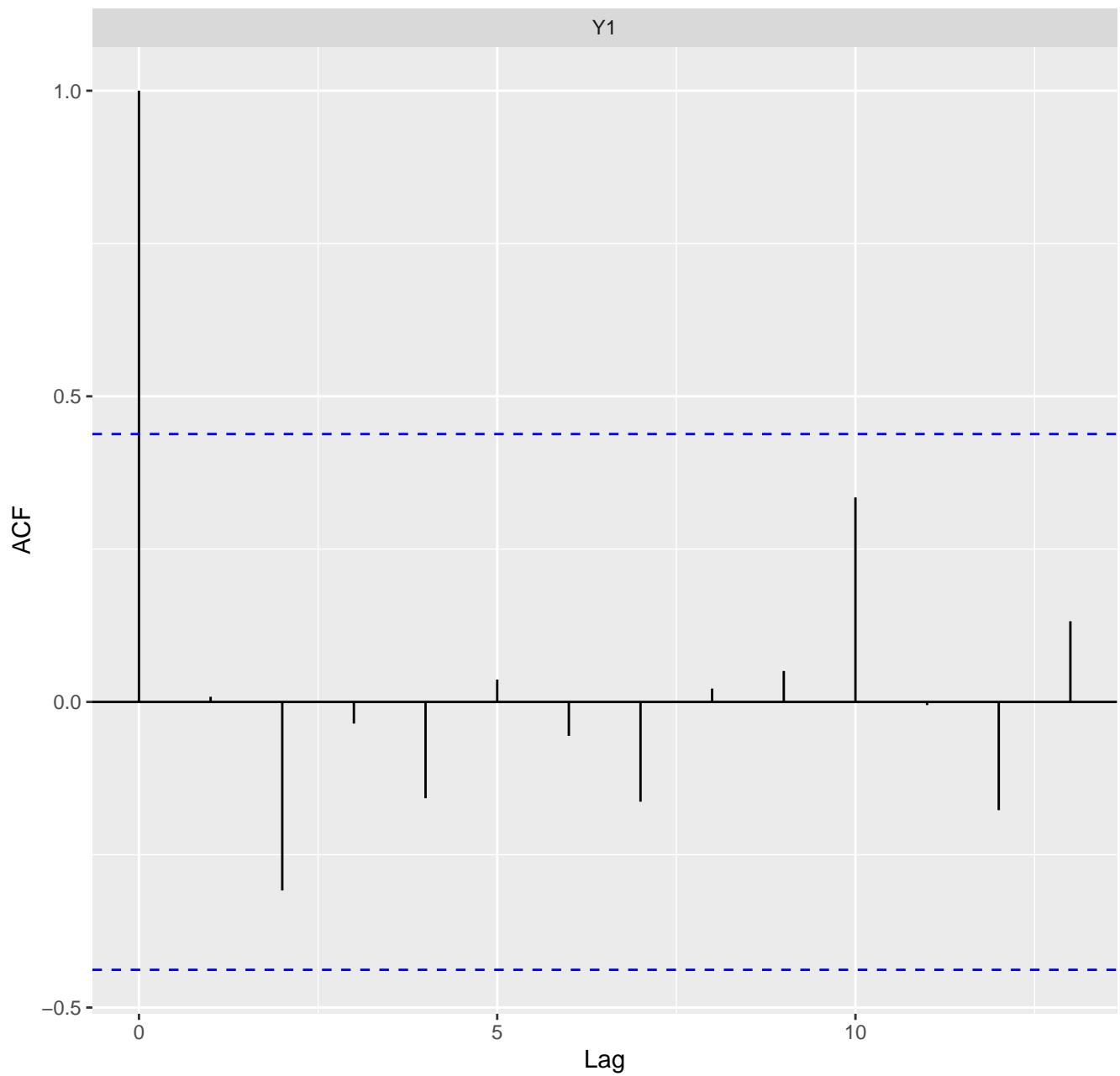
State residuals normality test



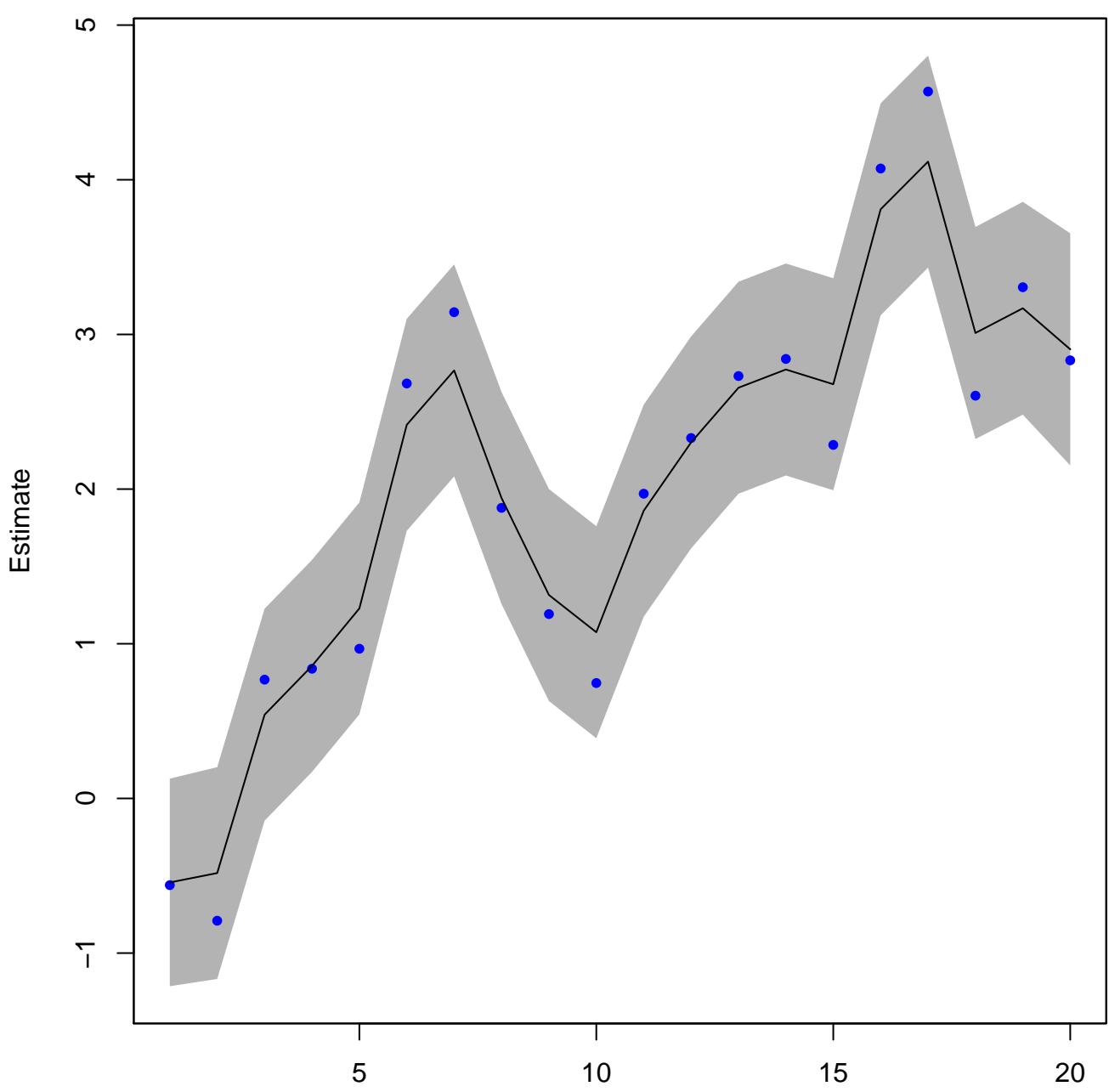
Expected value of Y conditioned on data



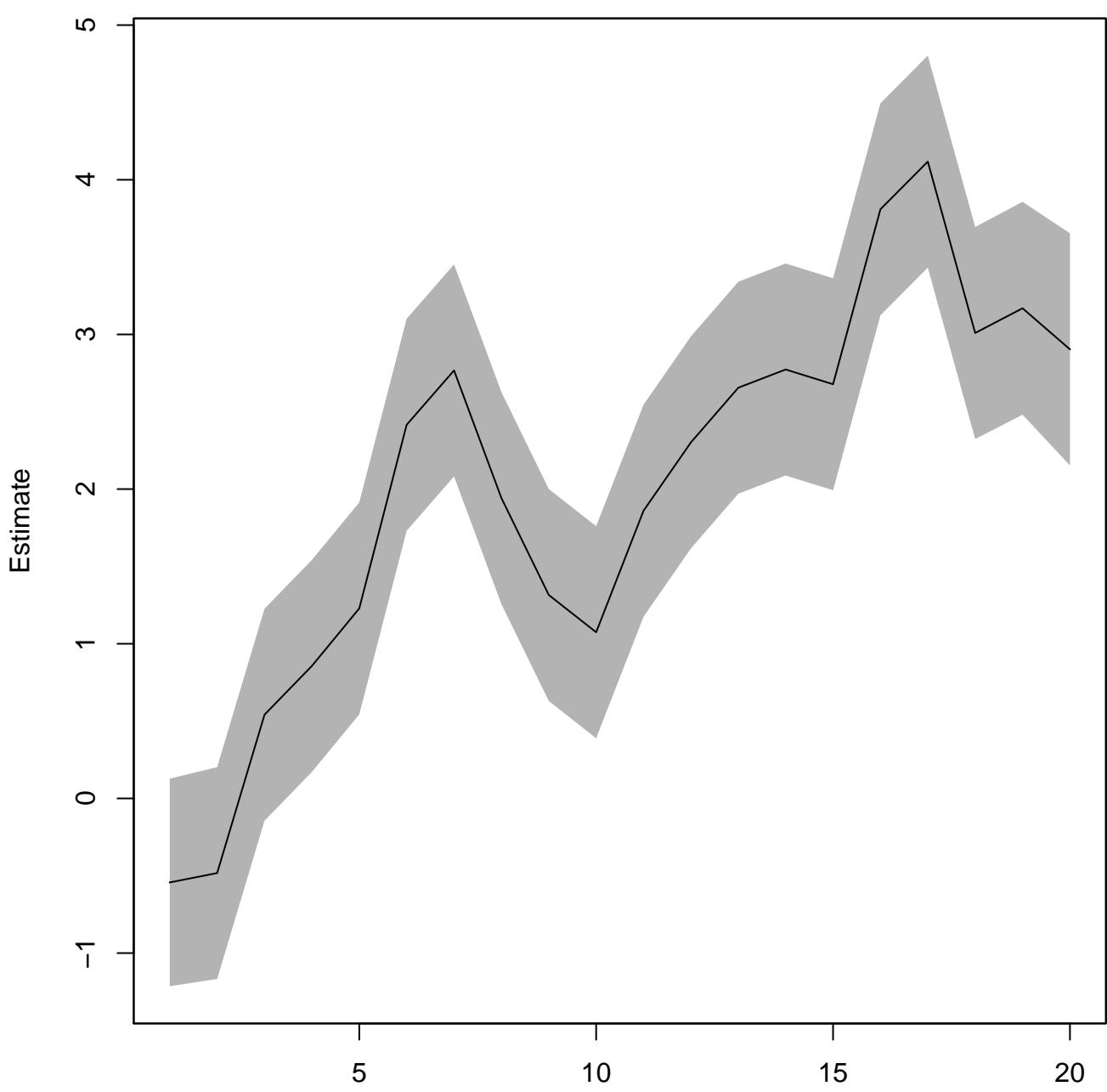
Model innovations residuals ACF

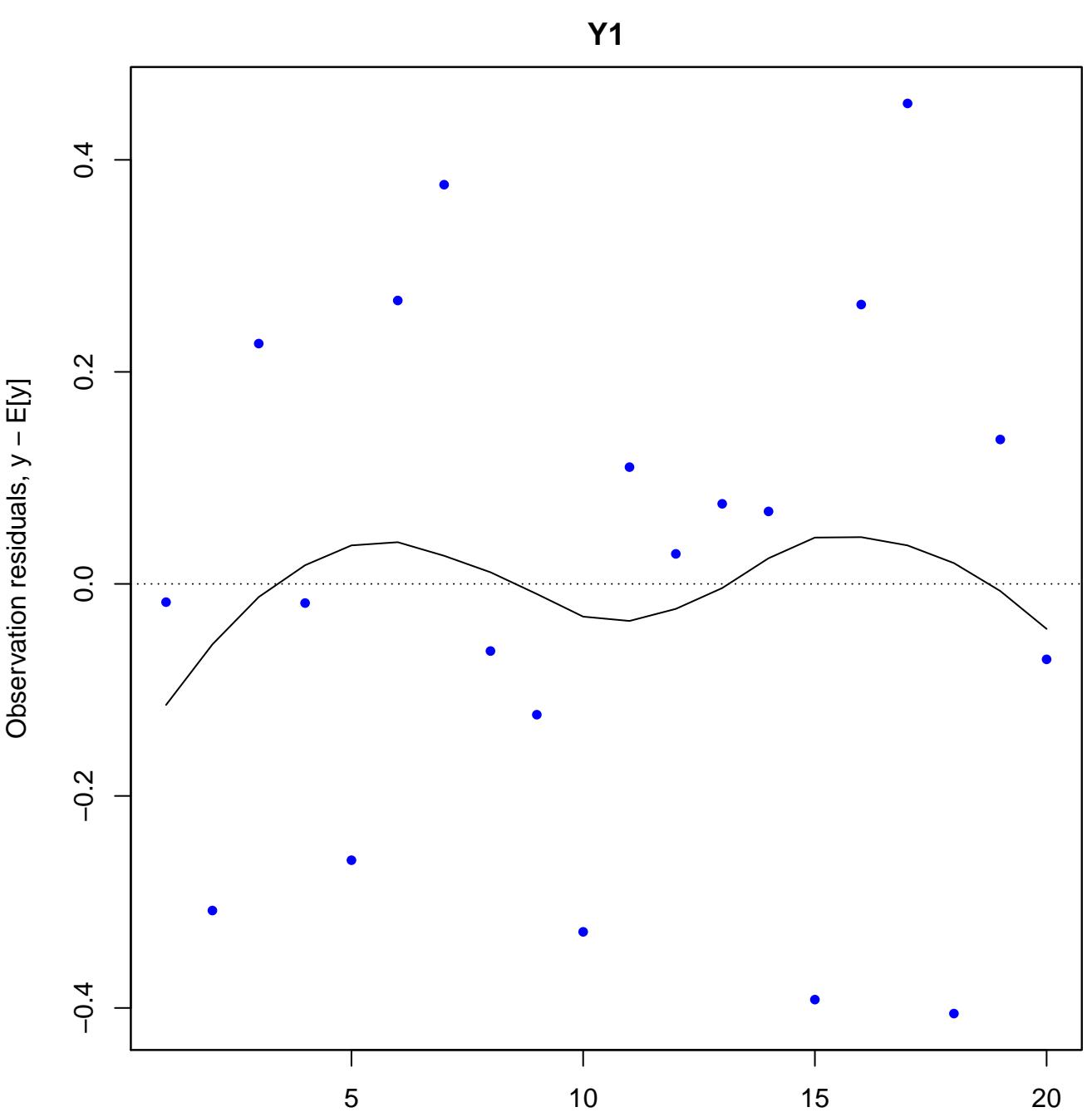


Y1 + CI

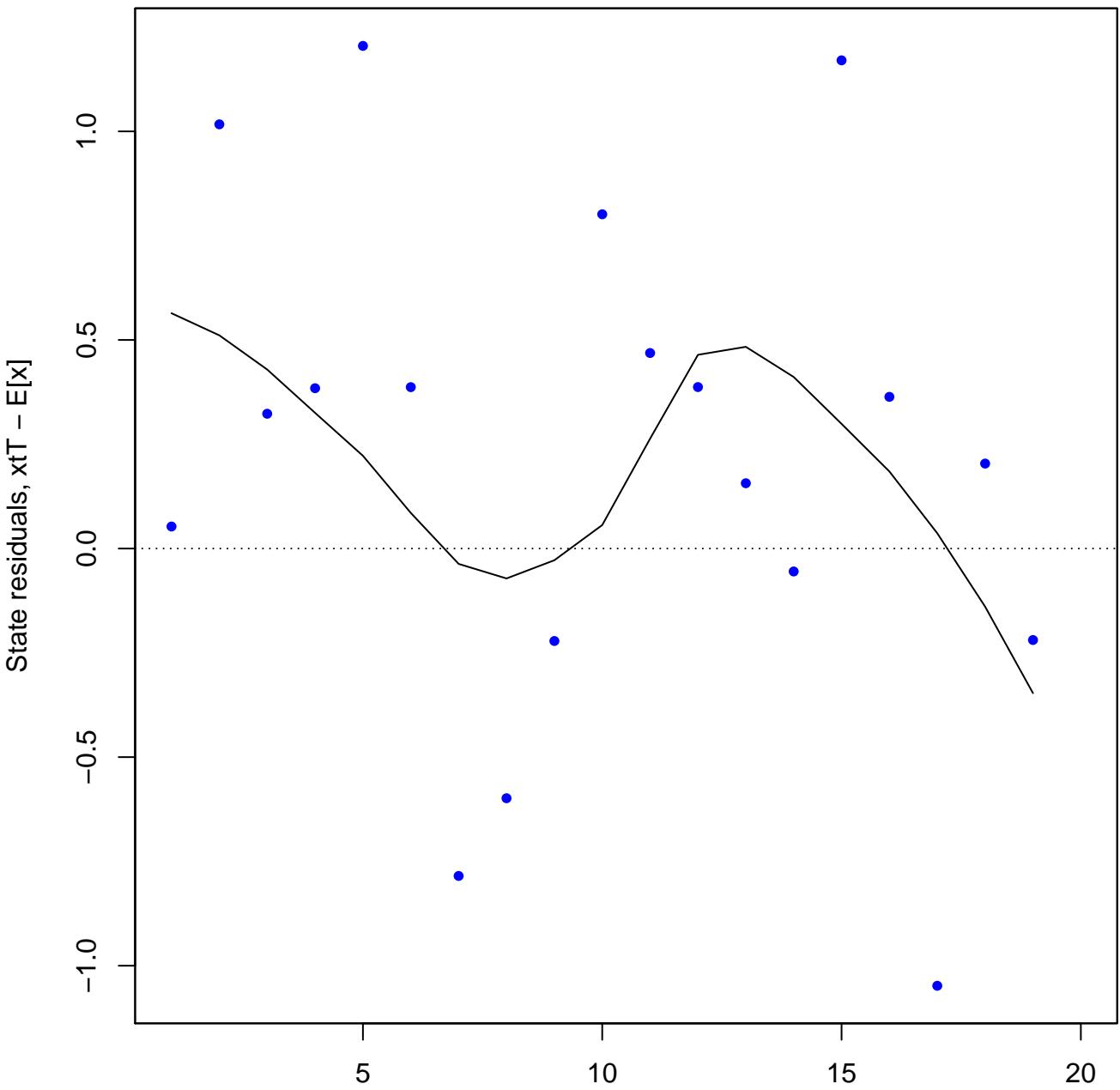


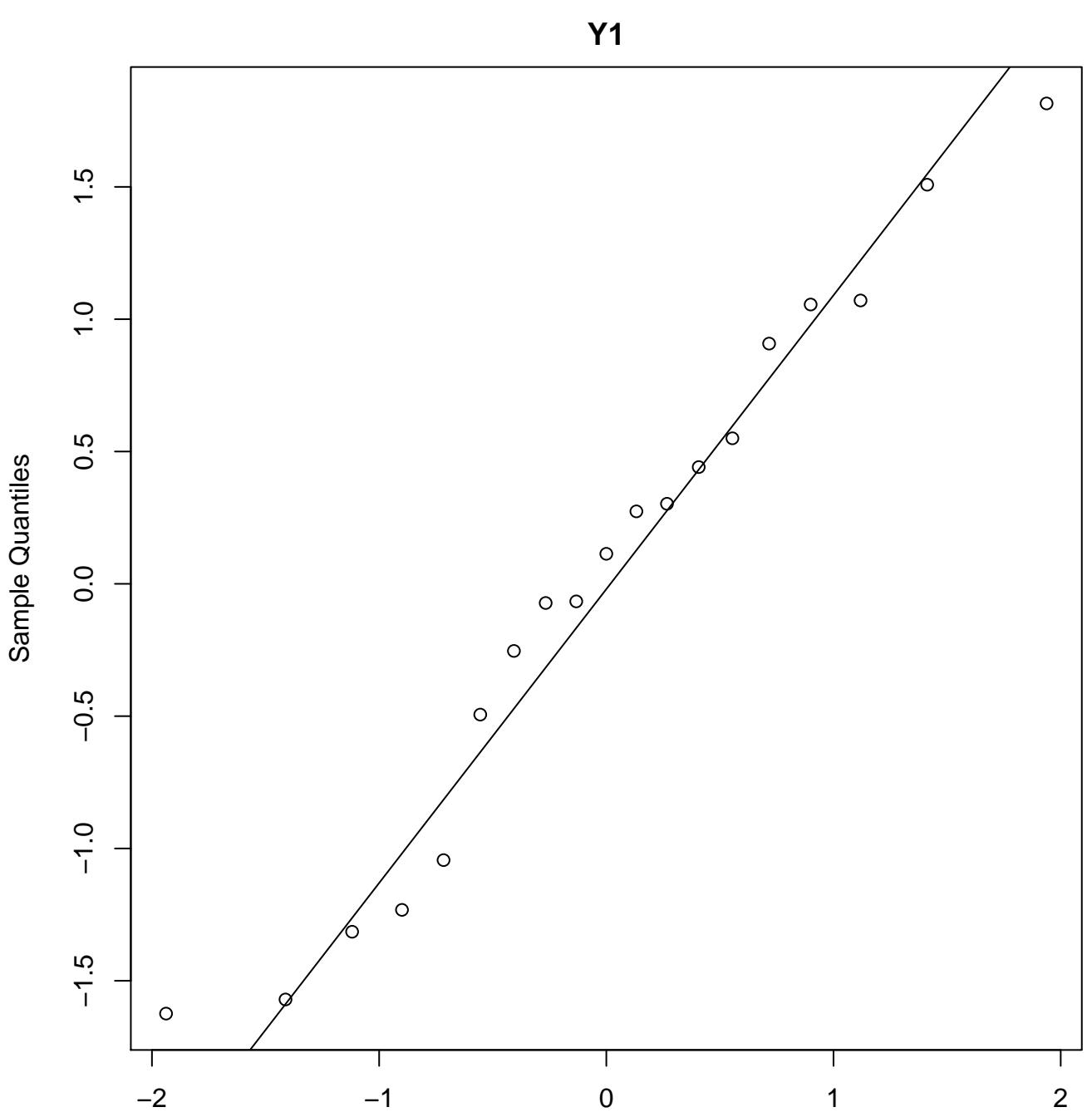
State X.Y1



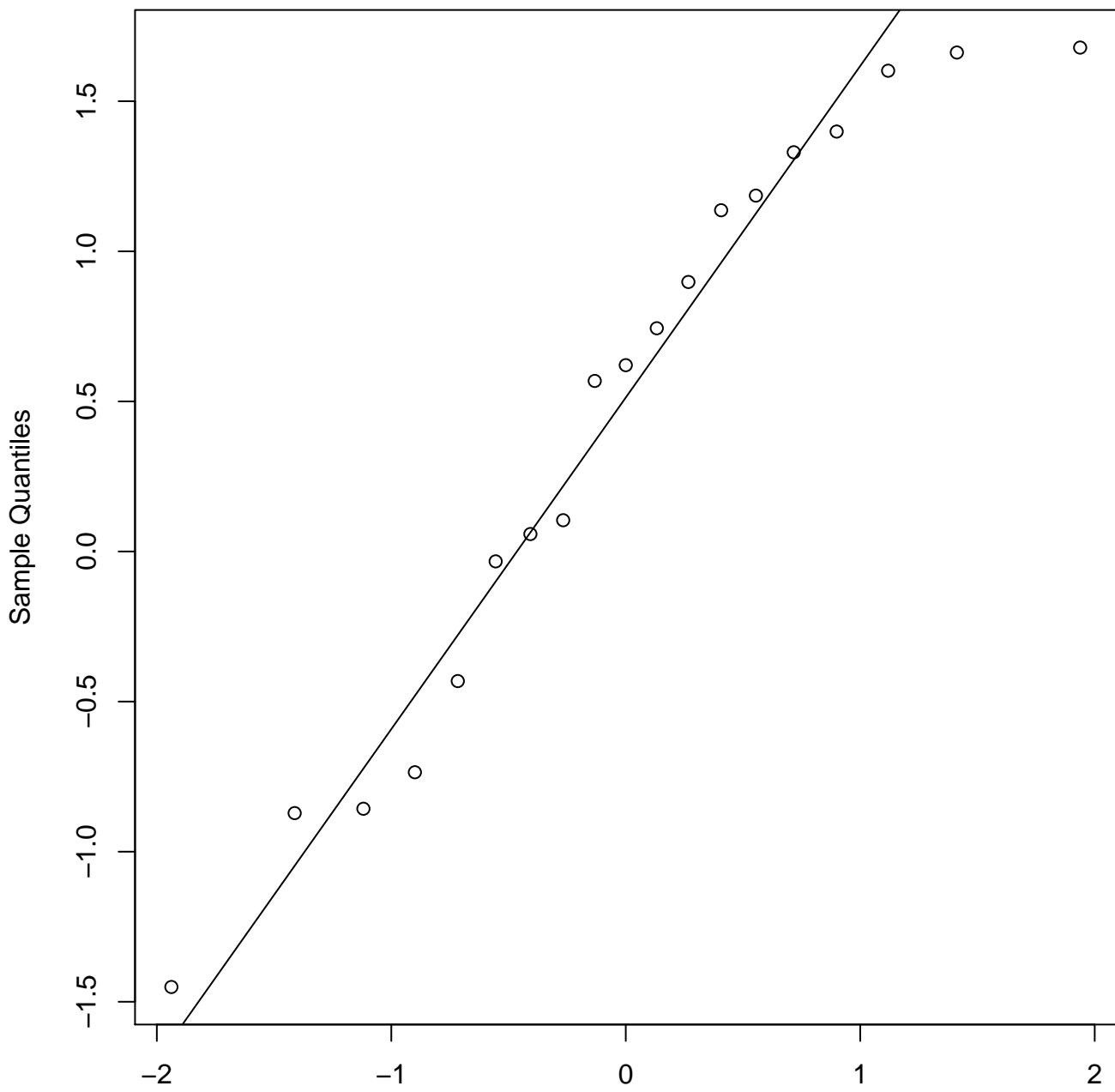


State X.Y1

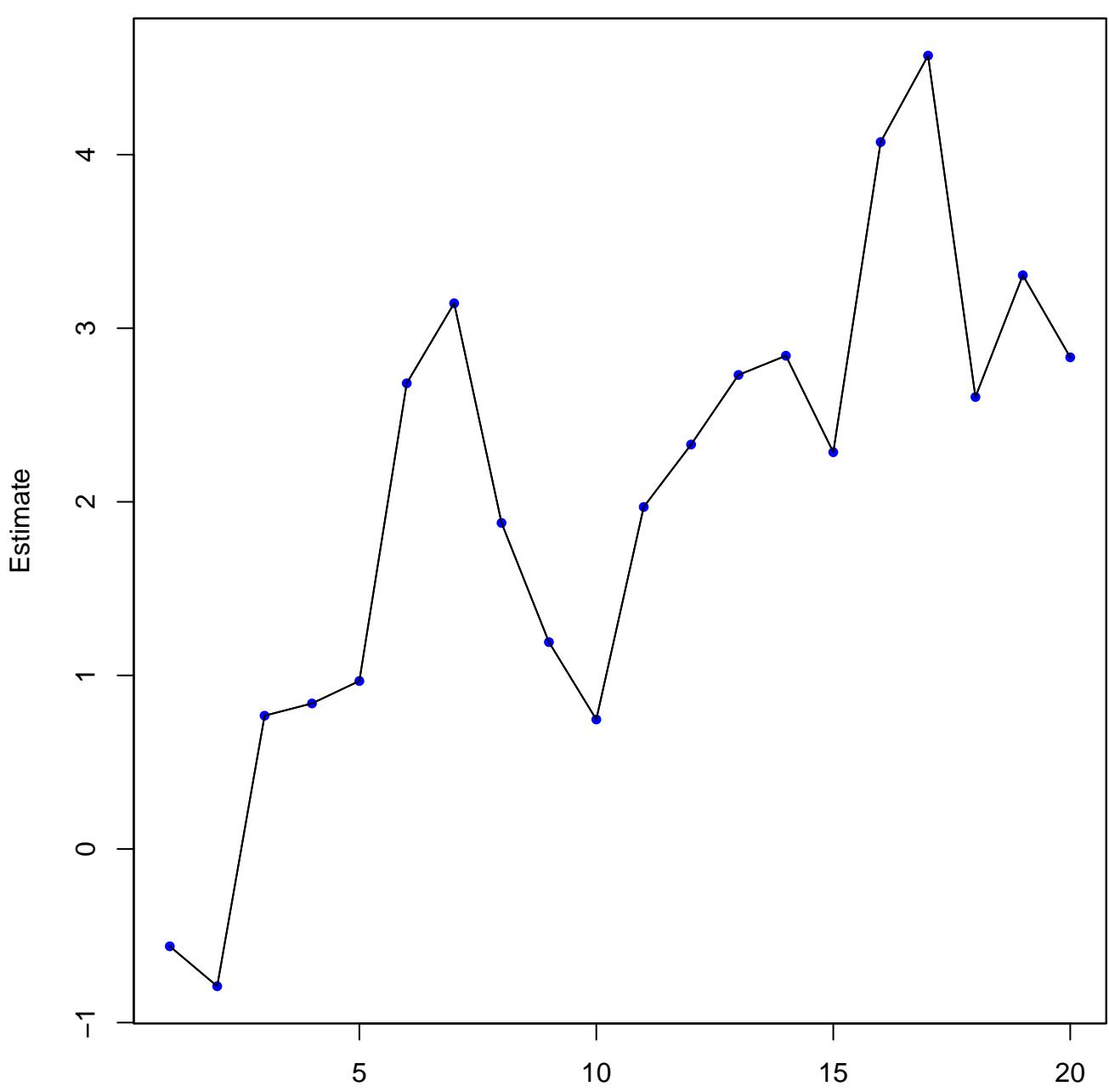




State X.Y1

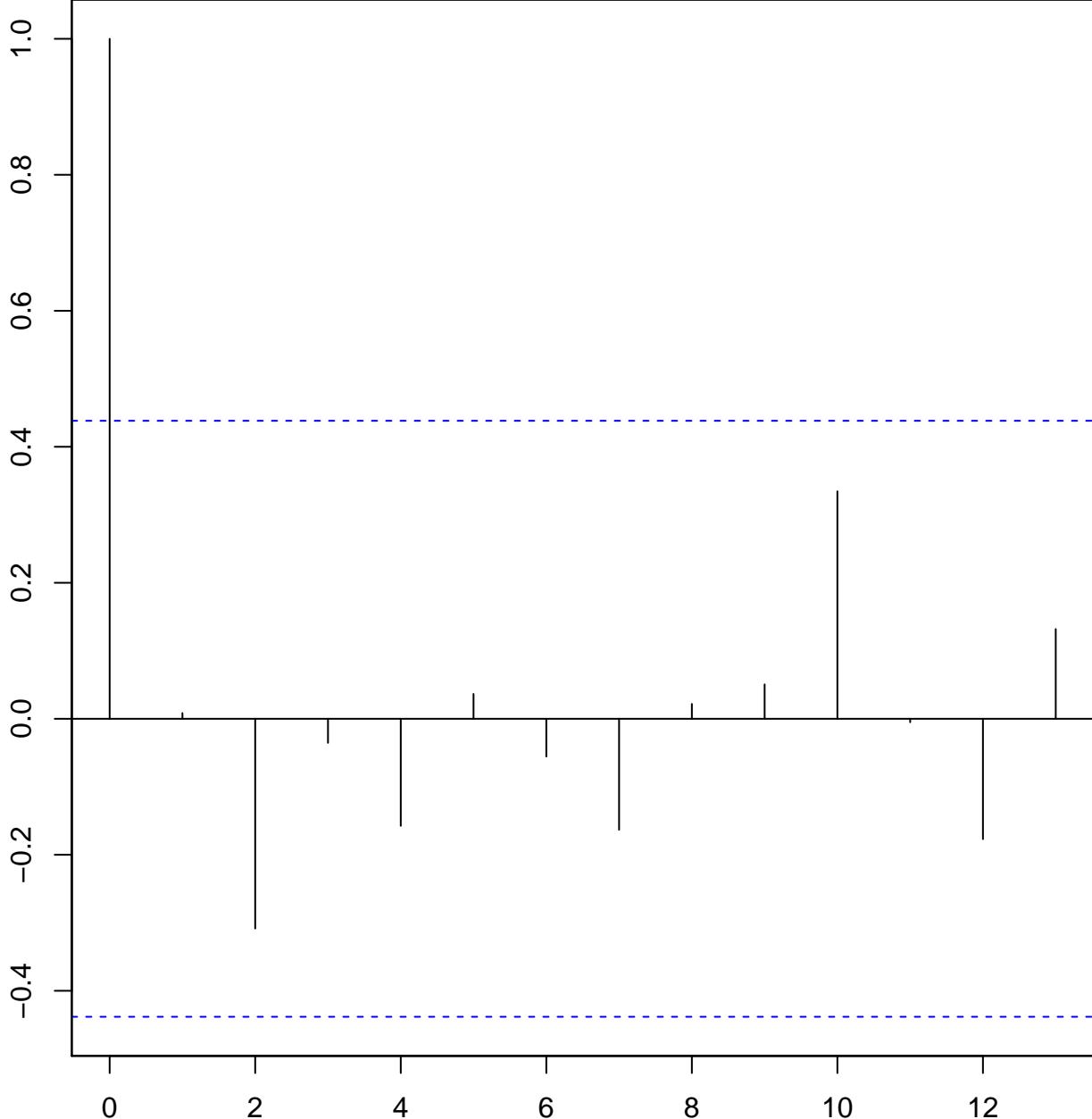


Y1 + CI



Y1

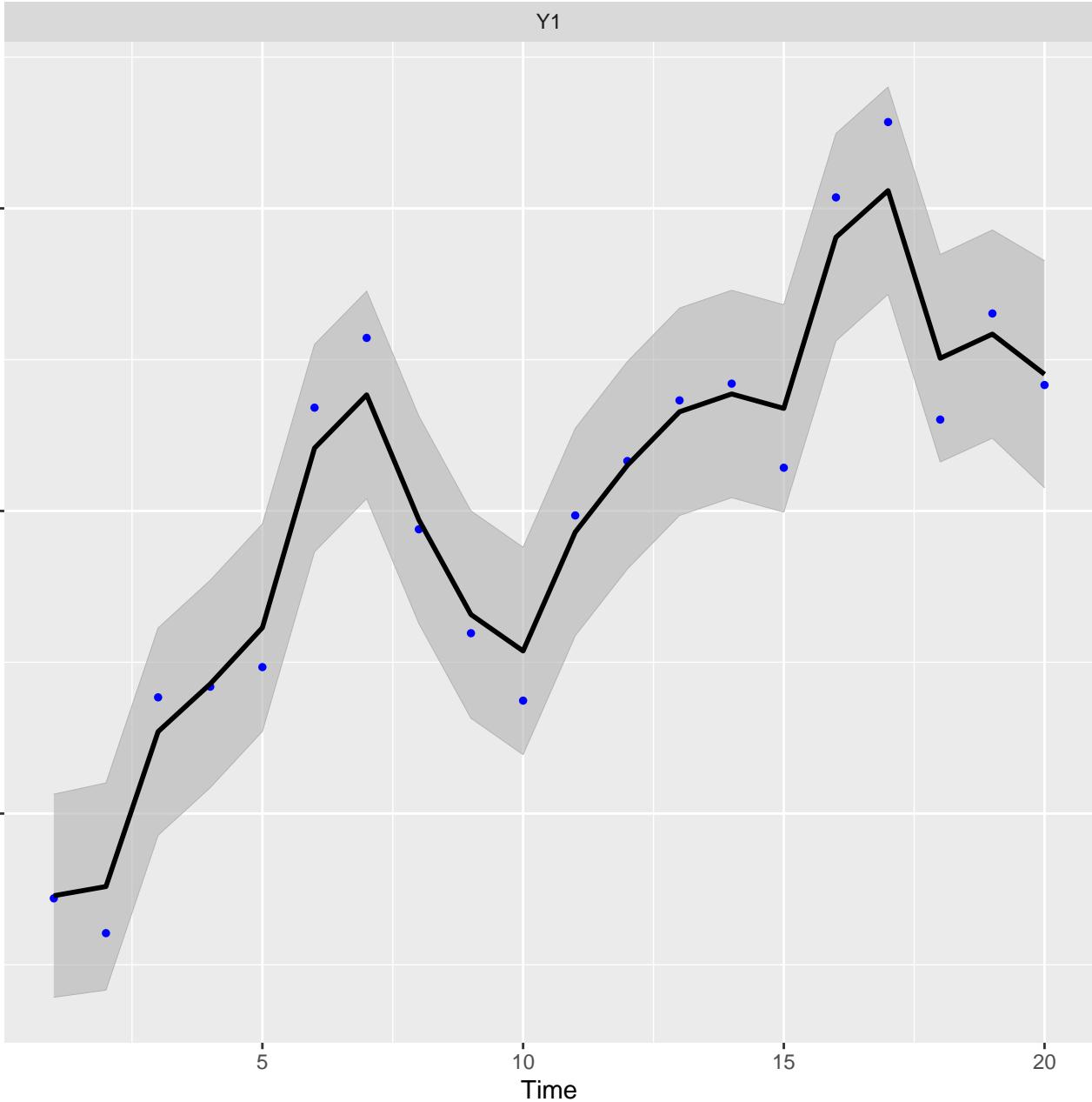
ACF



Model fitted Y + CI

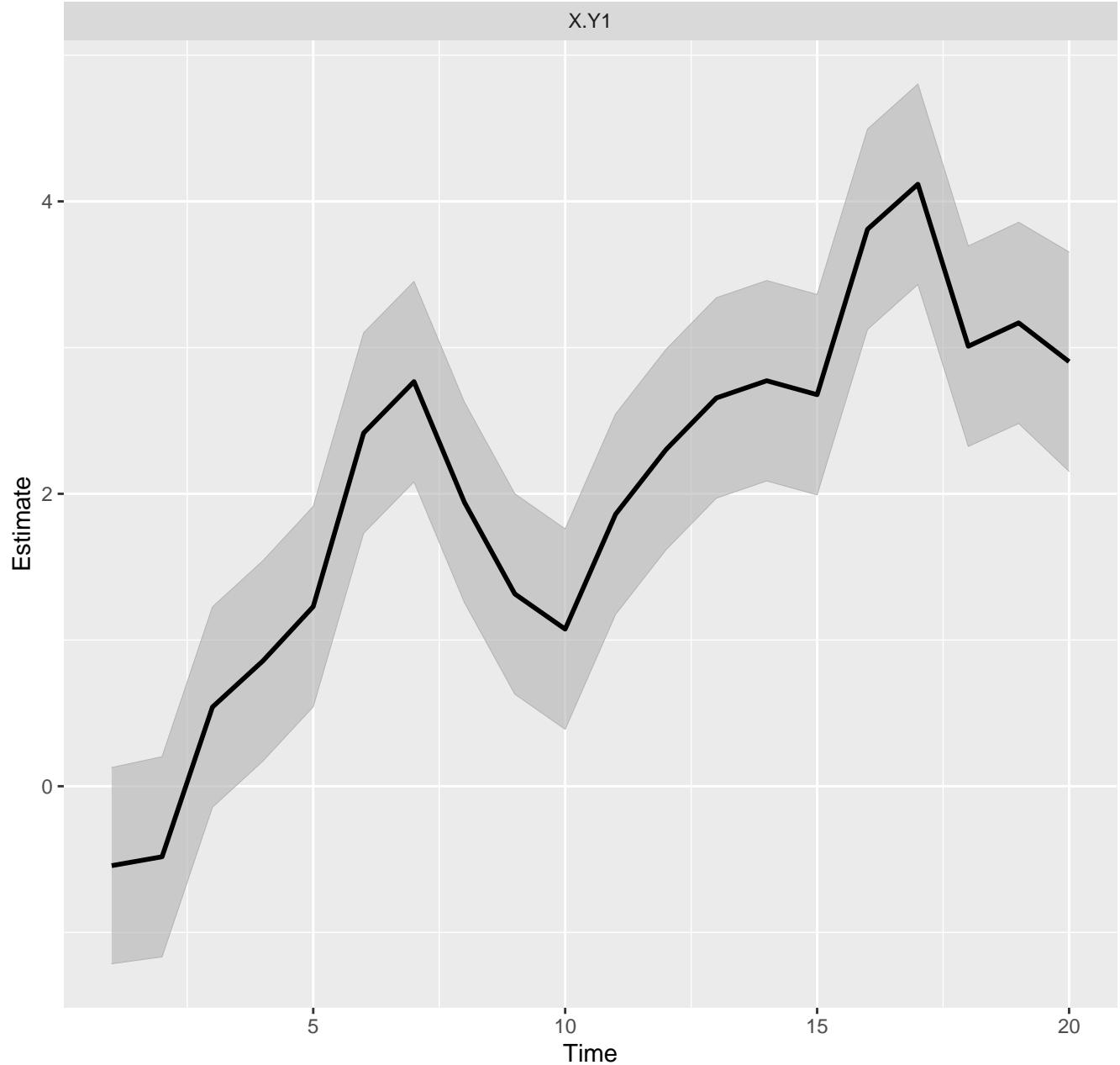
Y1

Estimate

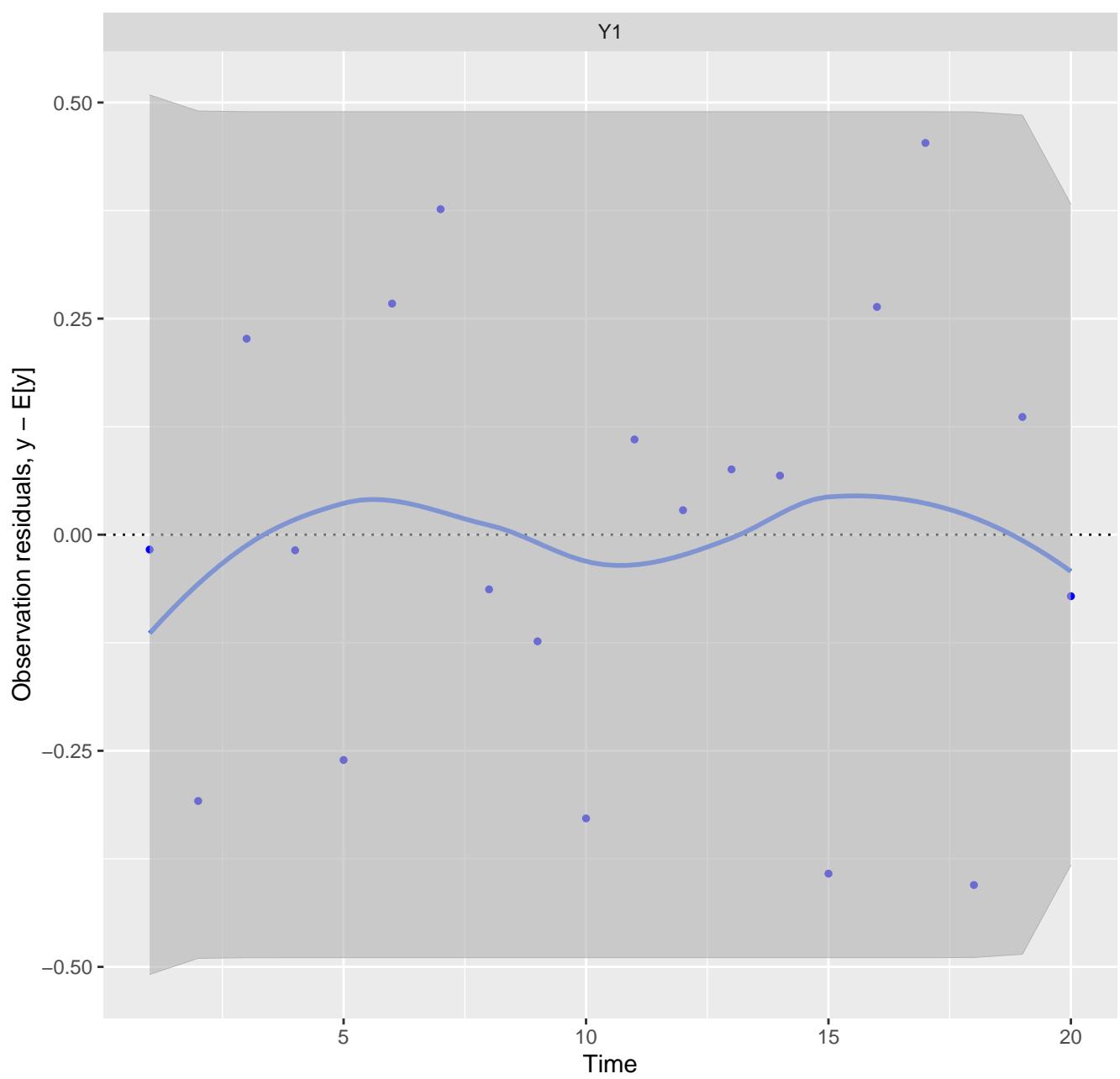


States

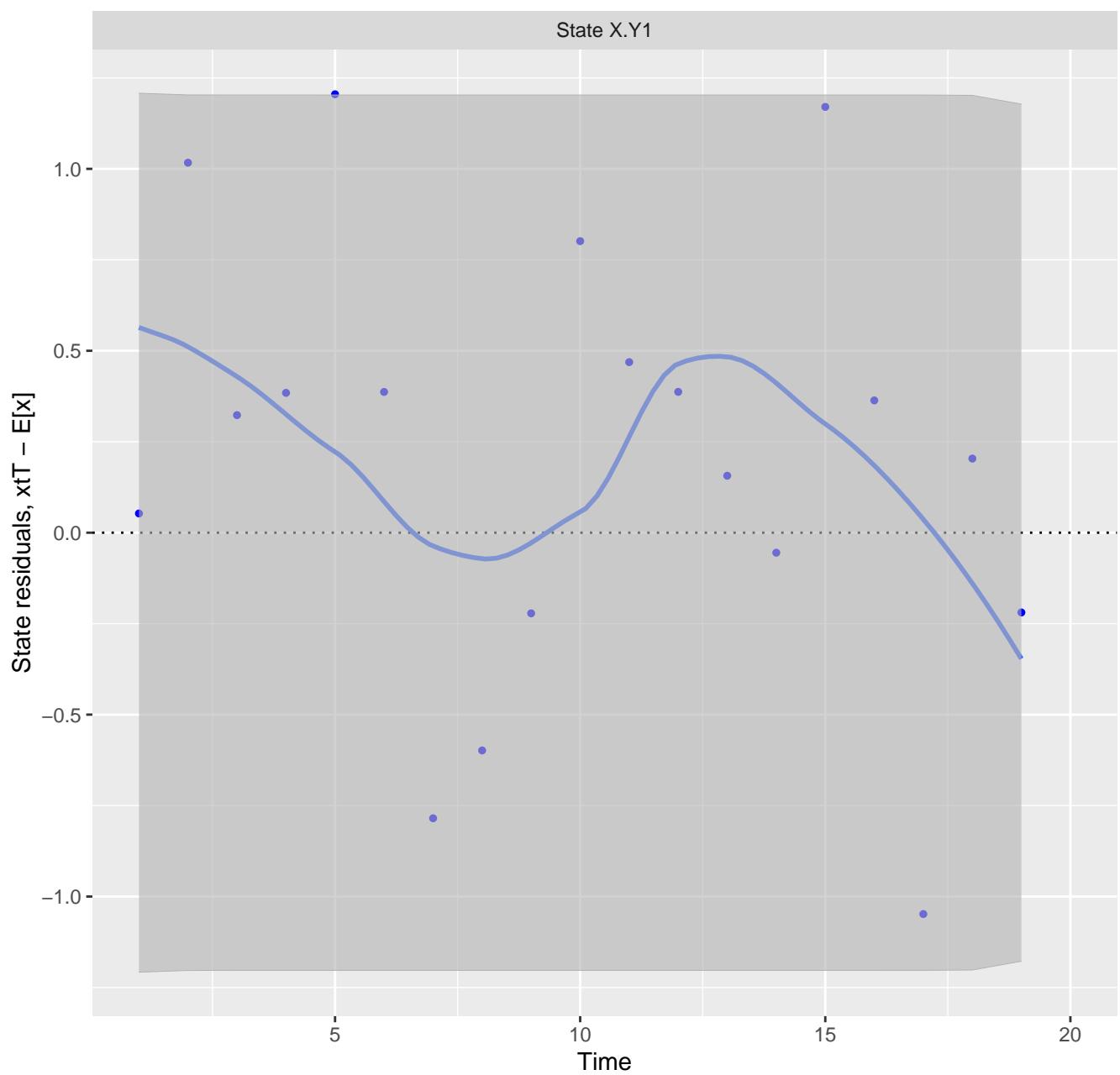
X.Y1



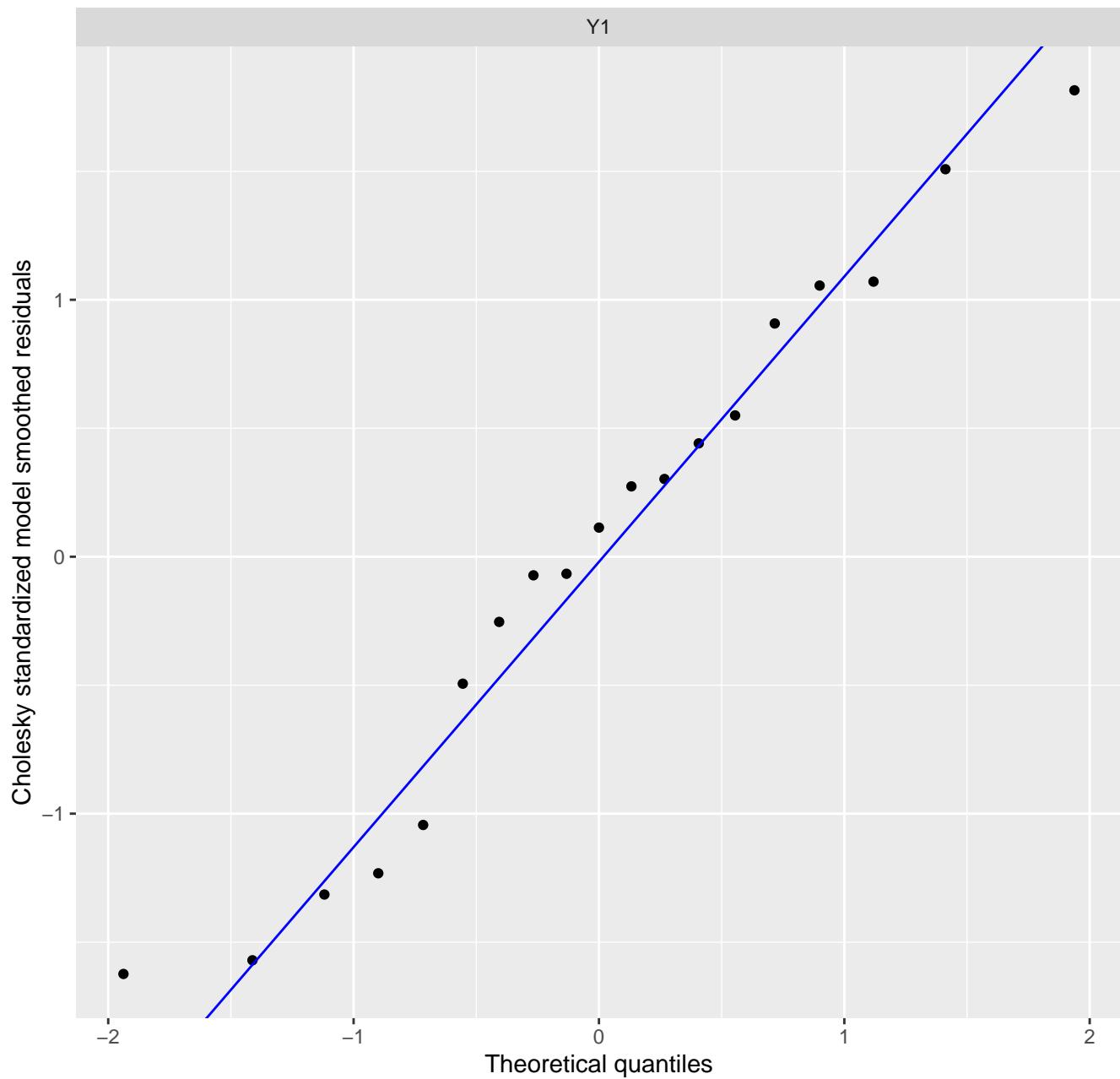
Model residuals



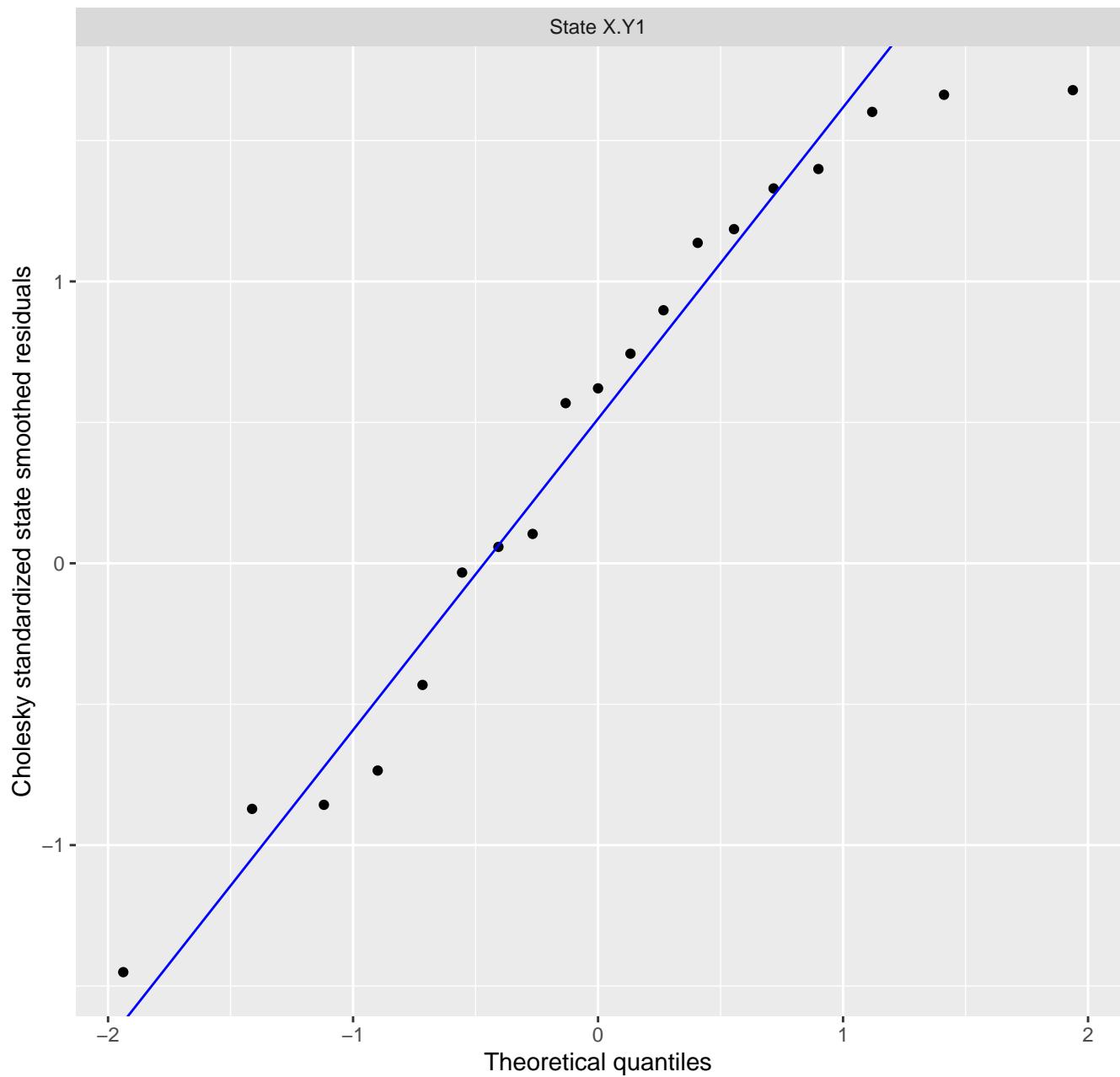
State residuals



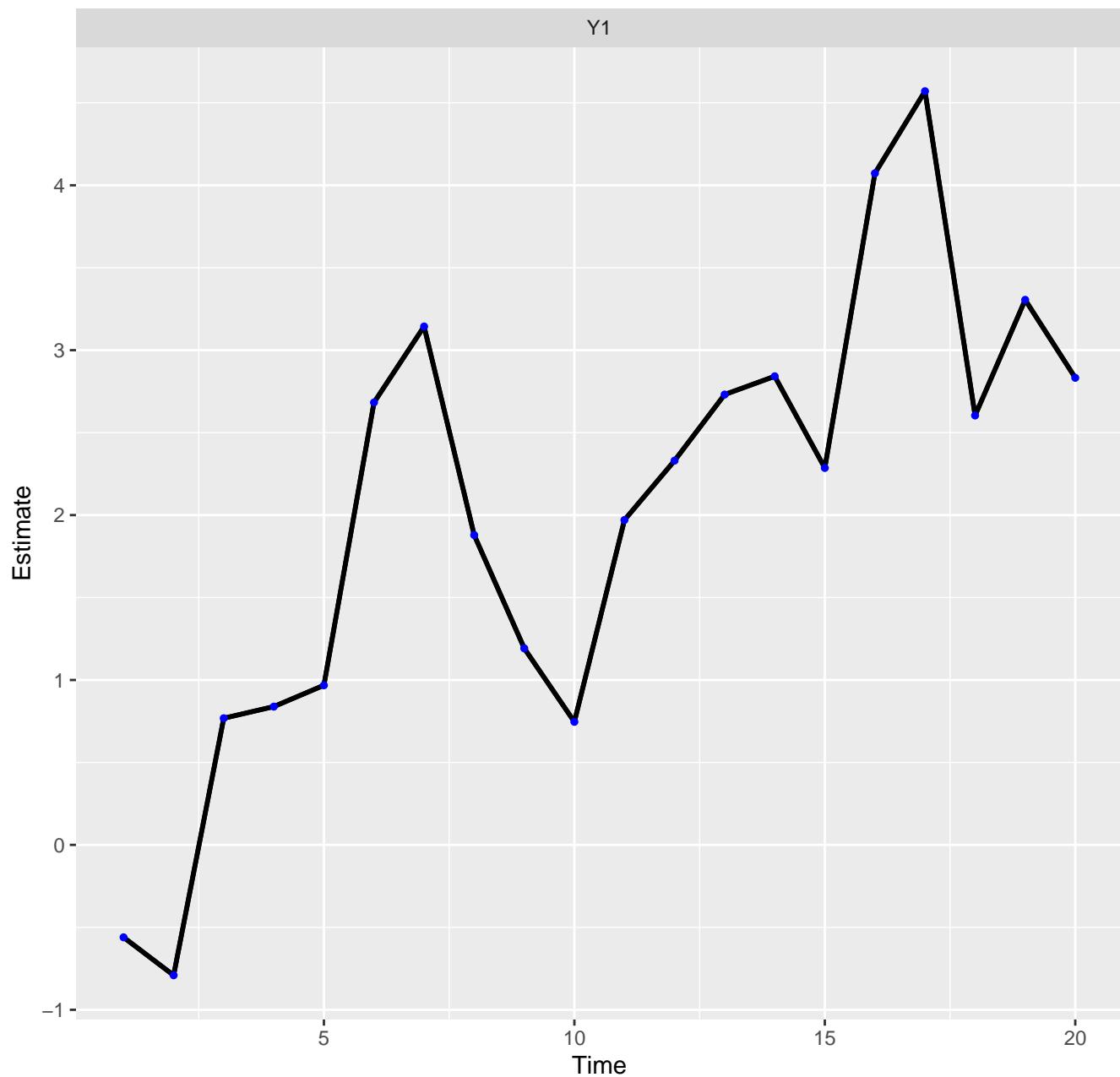
Model residuals normality test



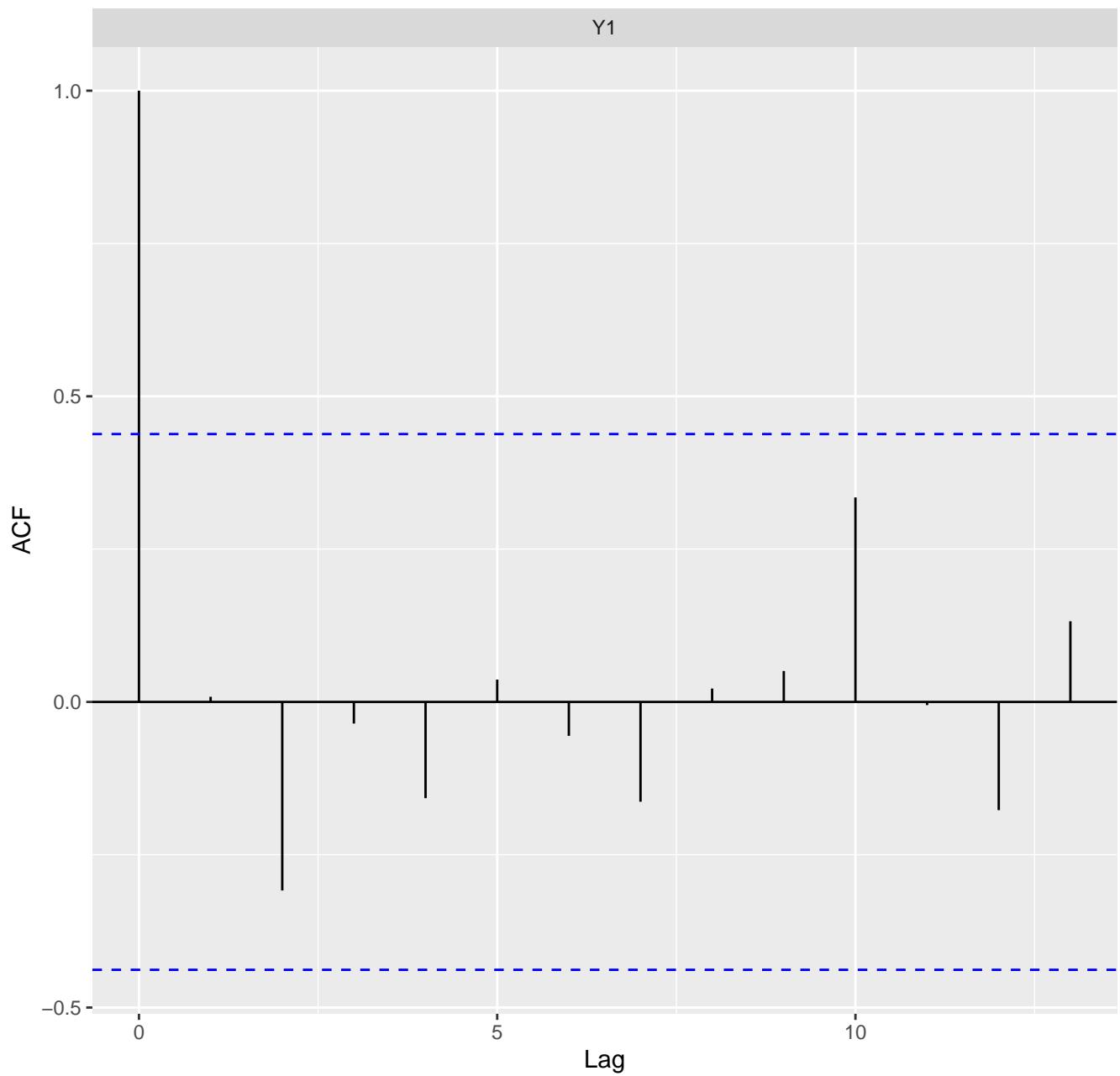
State residuals normality test

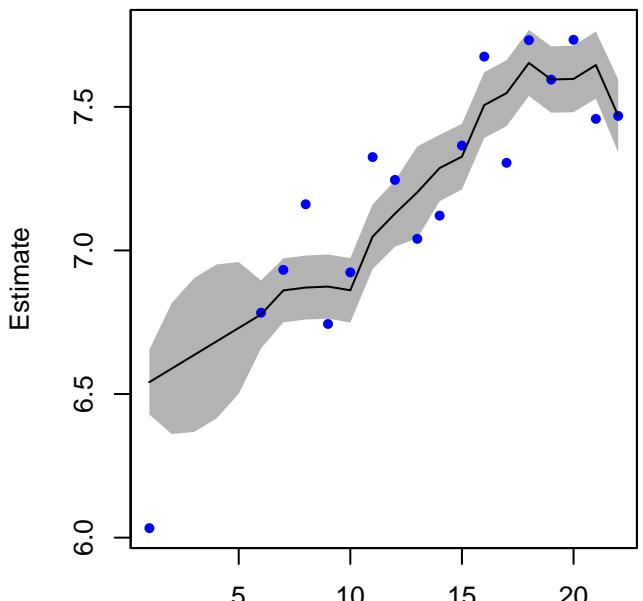
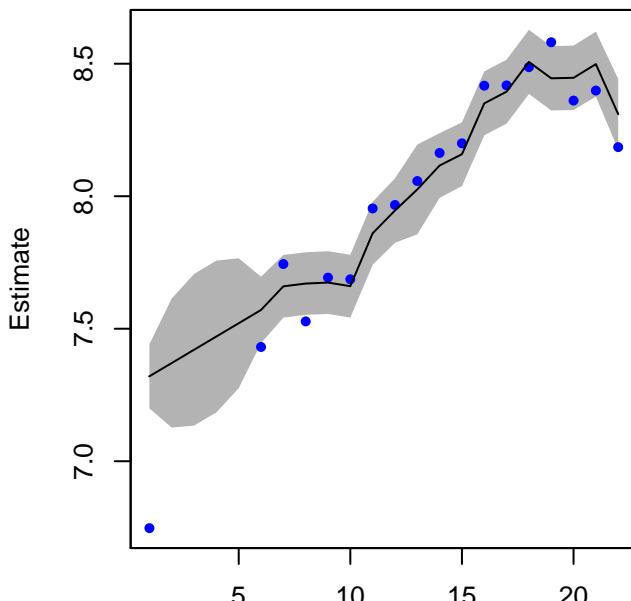
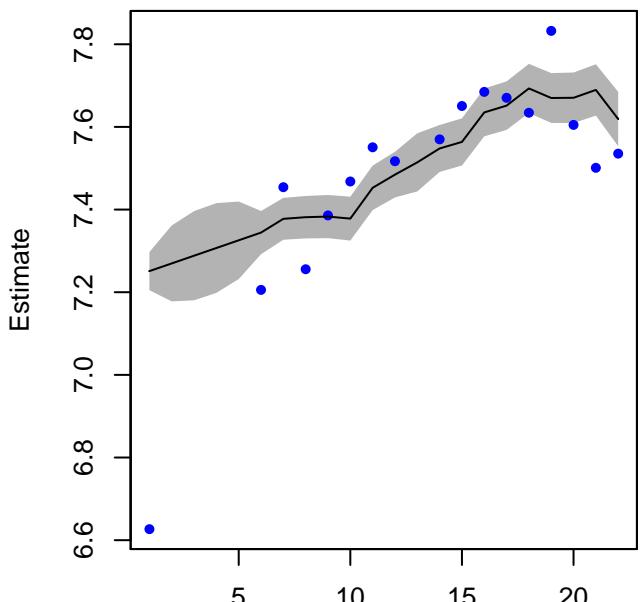


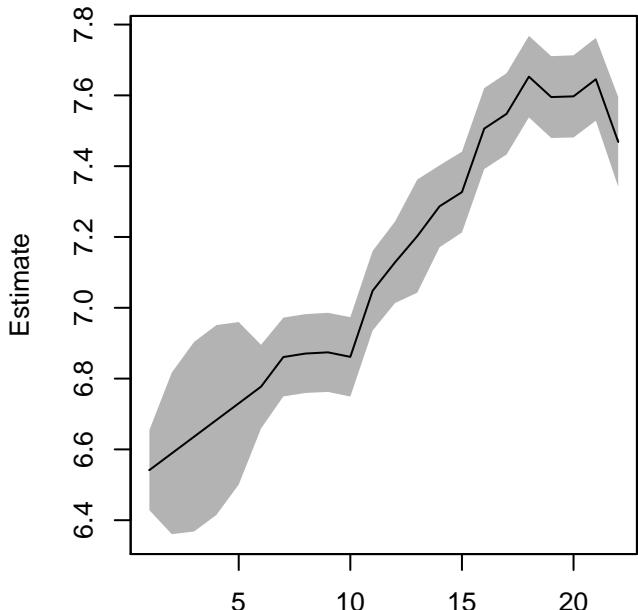
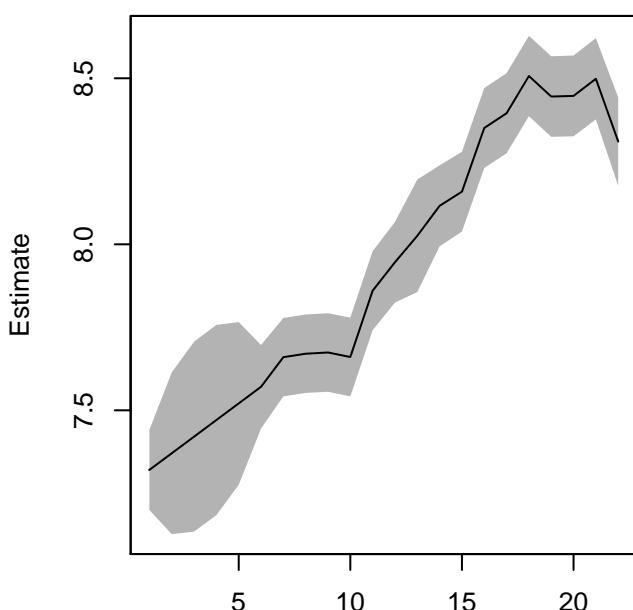
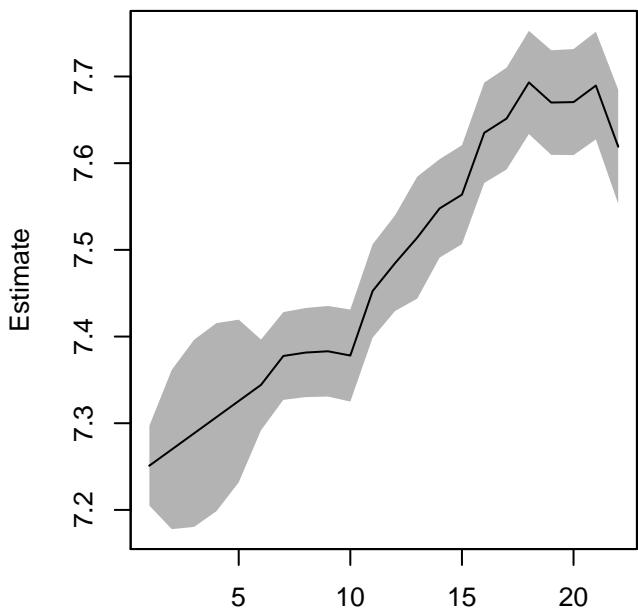
Expected value of Y conditioned on data



Model innovations residuals ACF

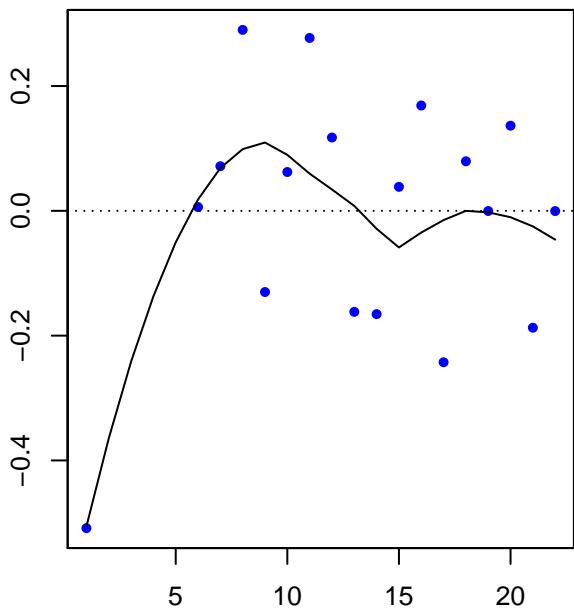


SJF + CI**SJI + CI****EBays + CI**

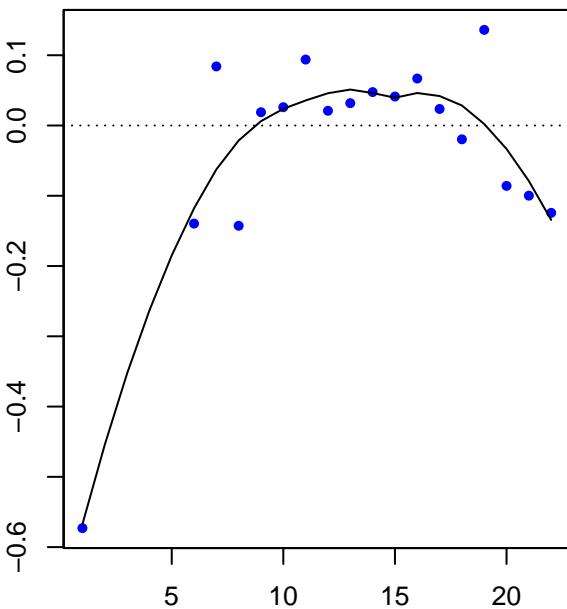
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

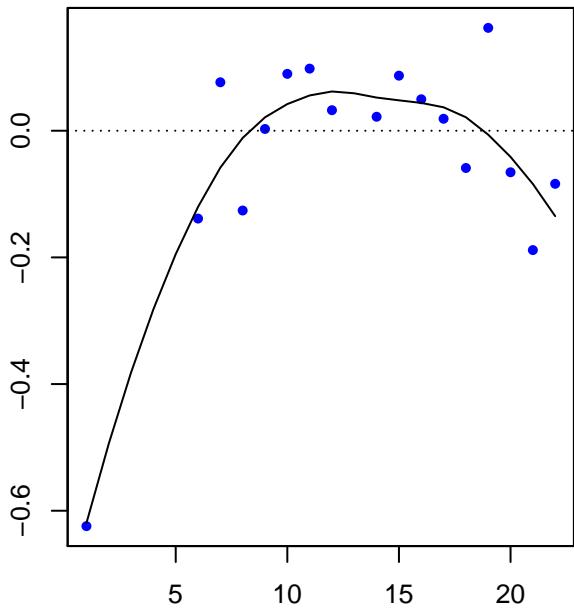
SJF



SJI

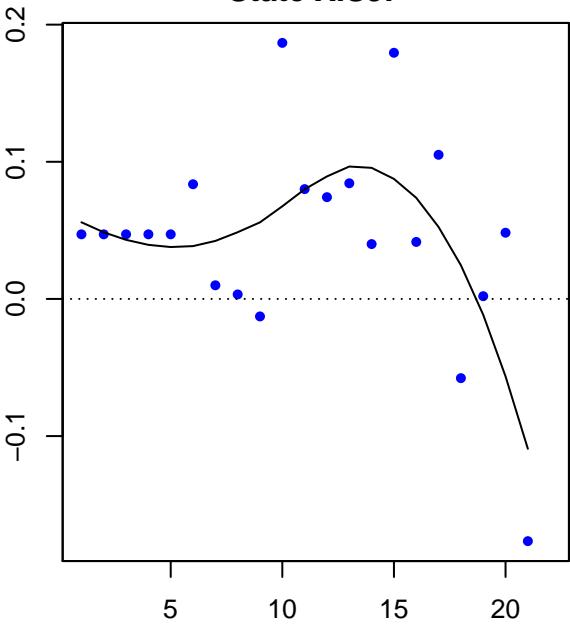


EBays

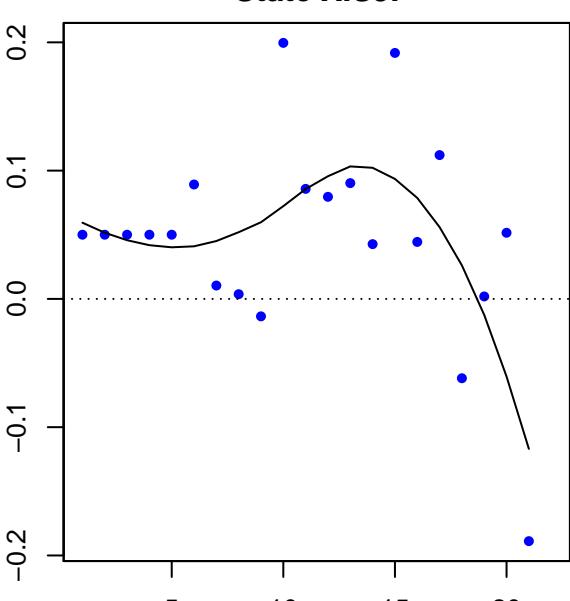


State residuals, $x_{tT} - E[x]$

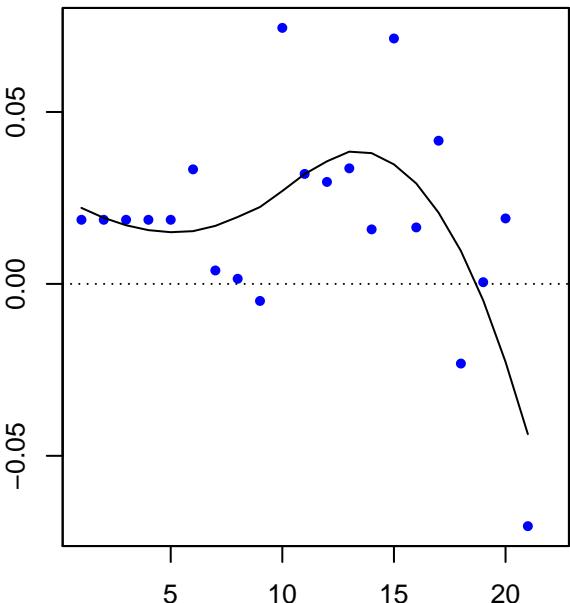
State X.SJF

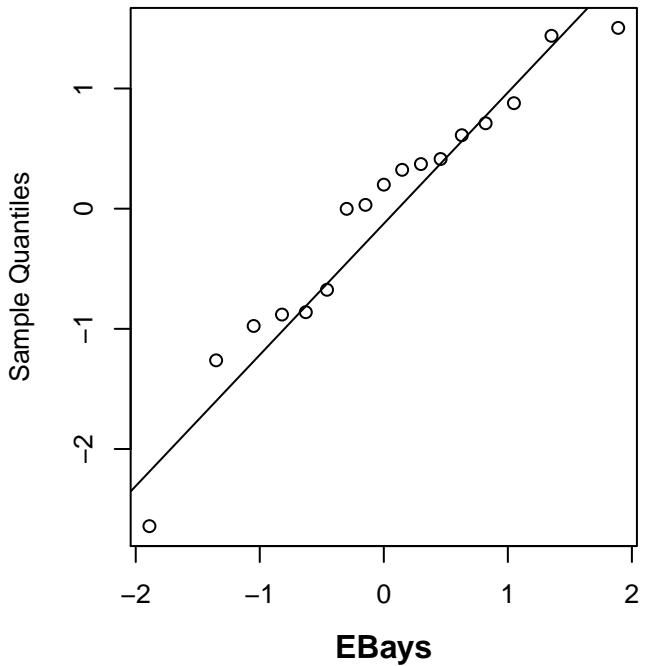
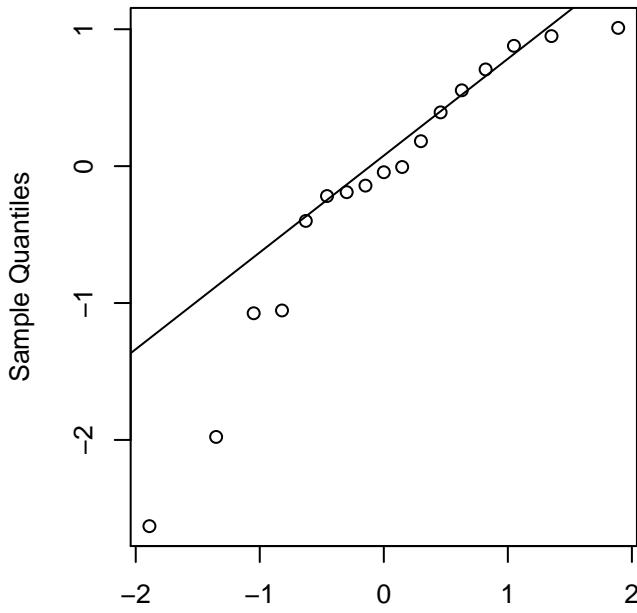
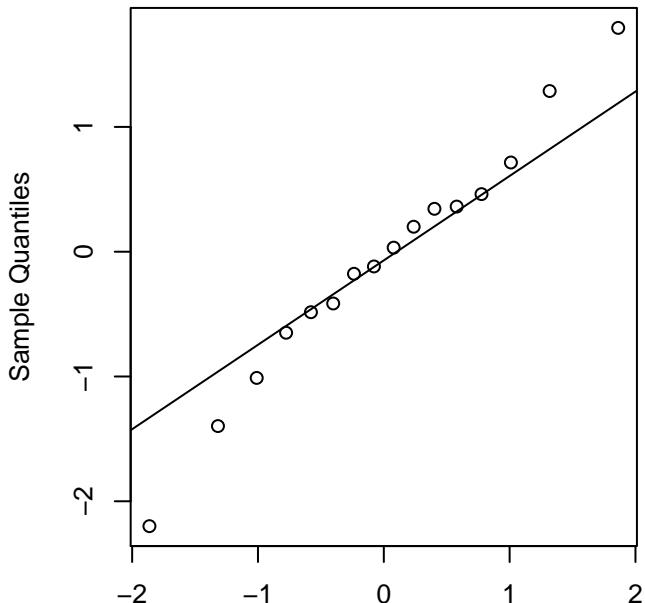


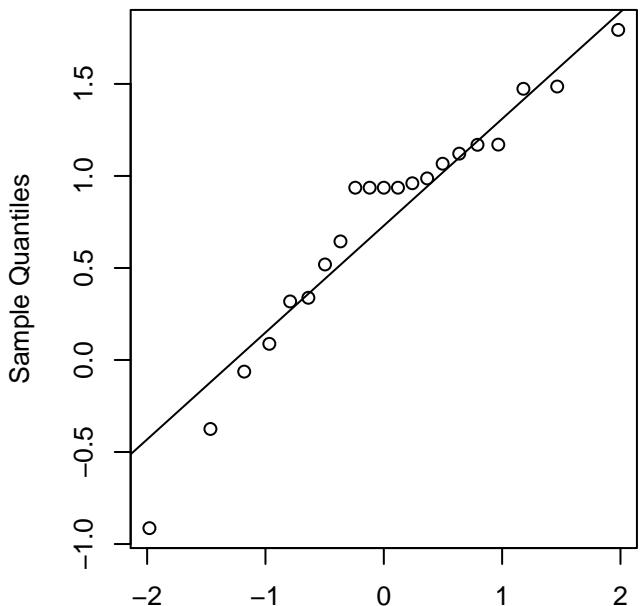
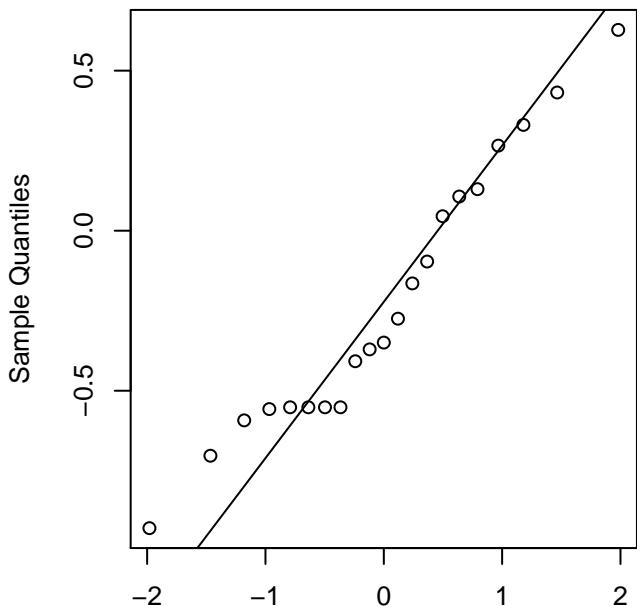
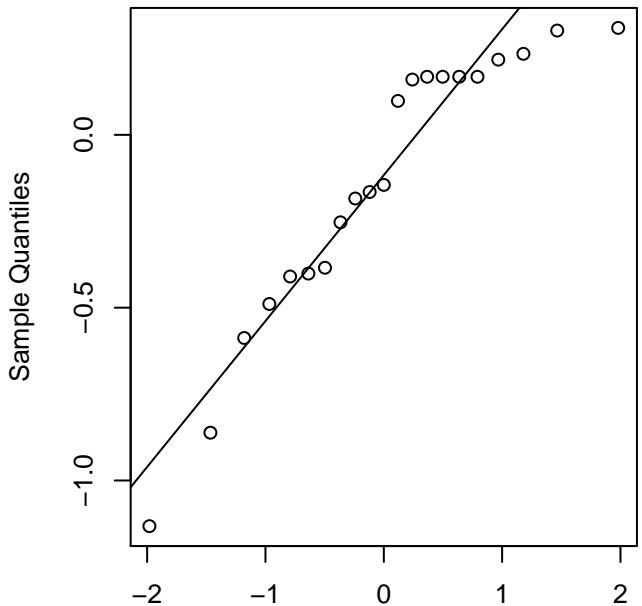
State X.SJI

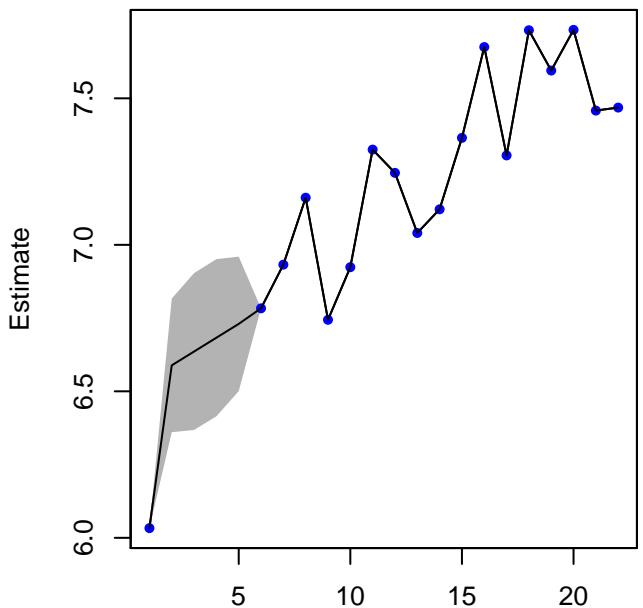
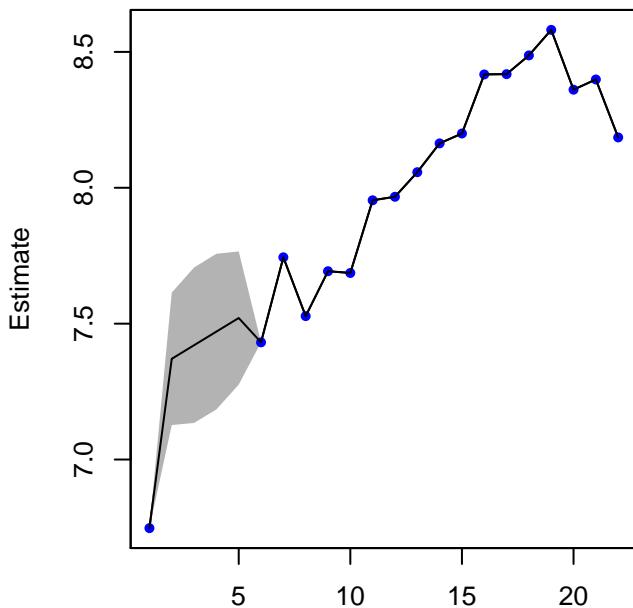
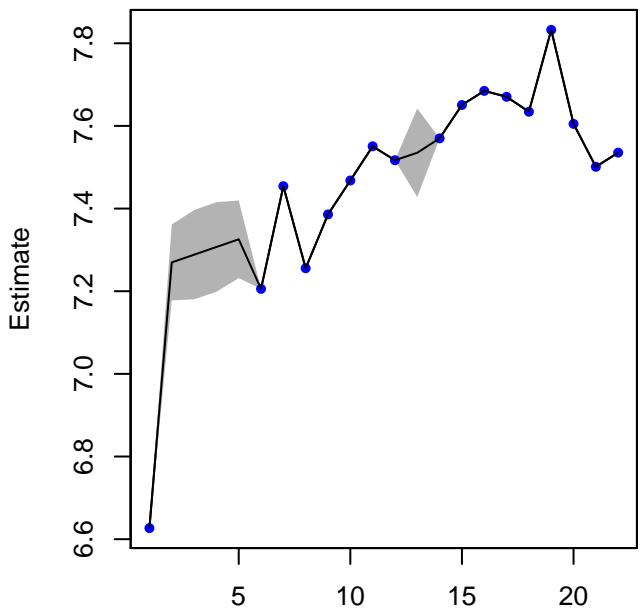


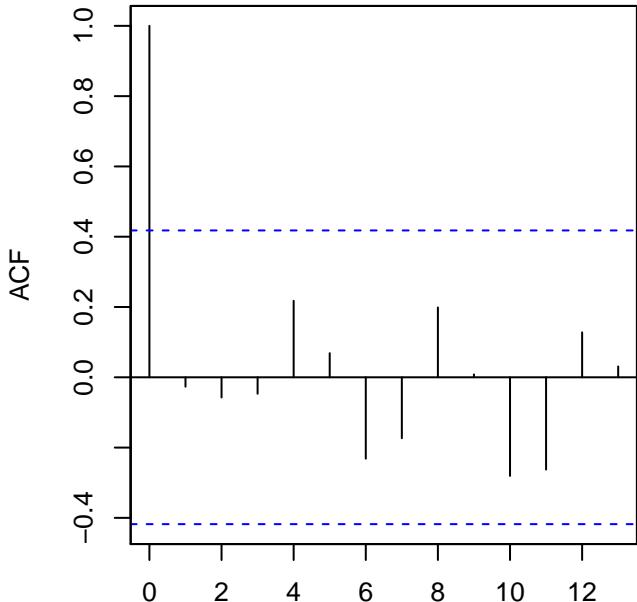
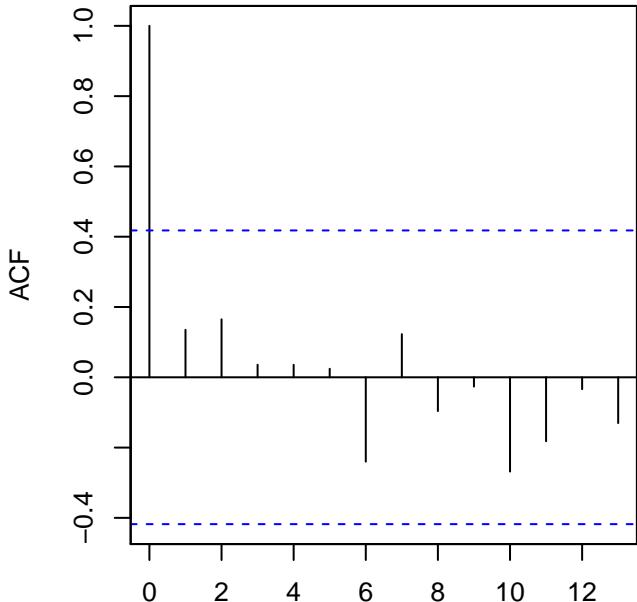
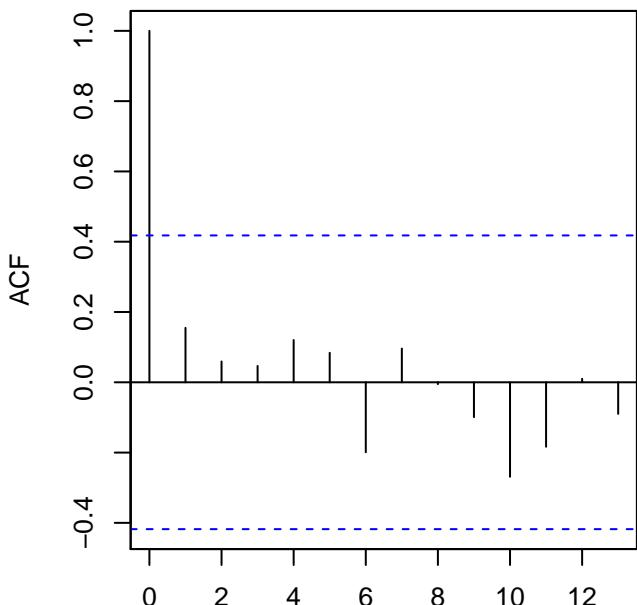
State X.EBays



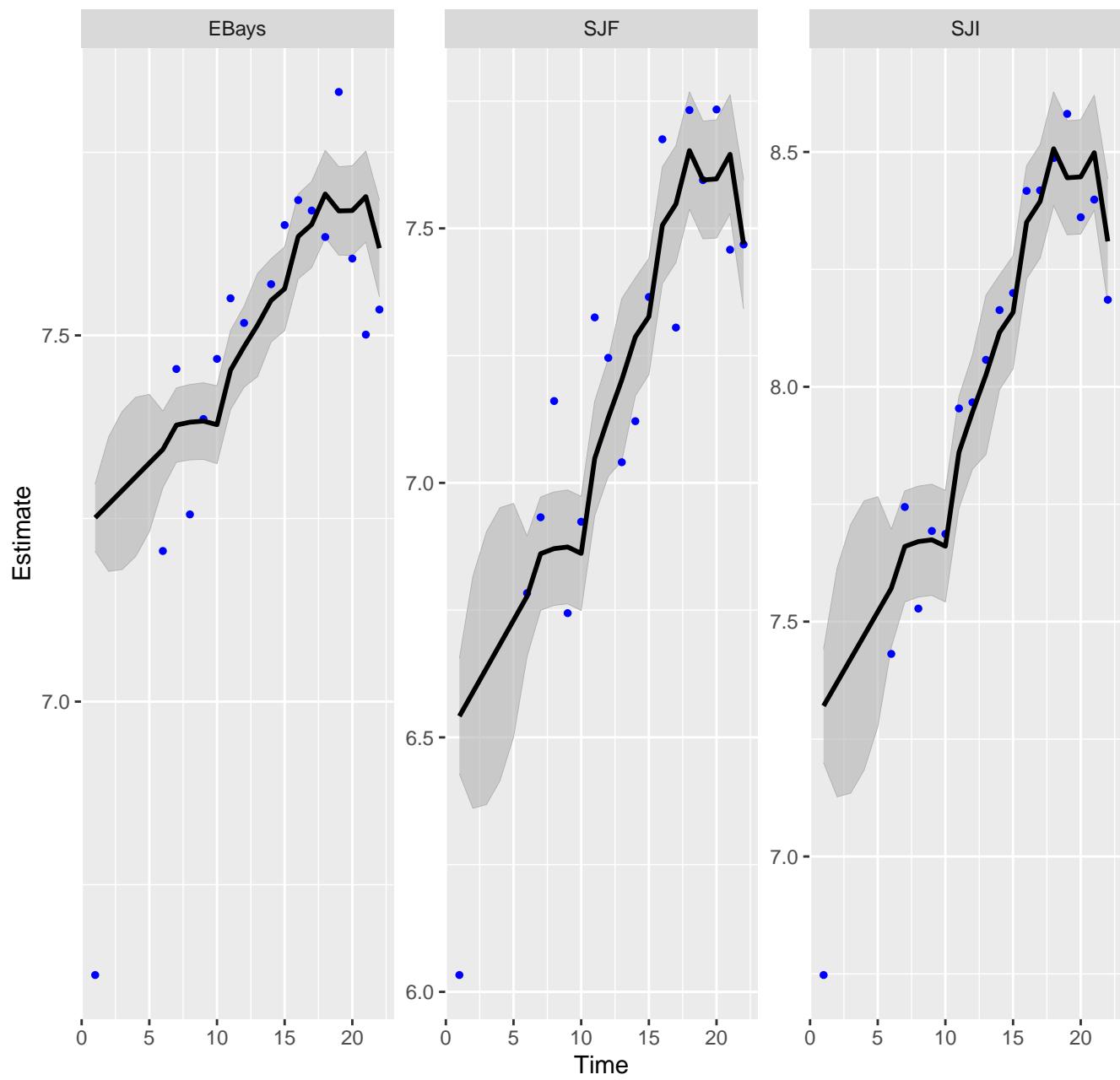
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

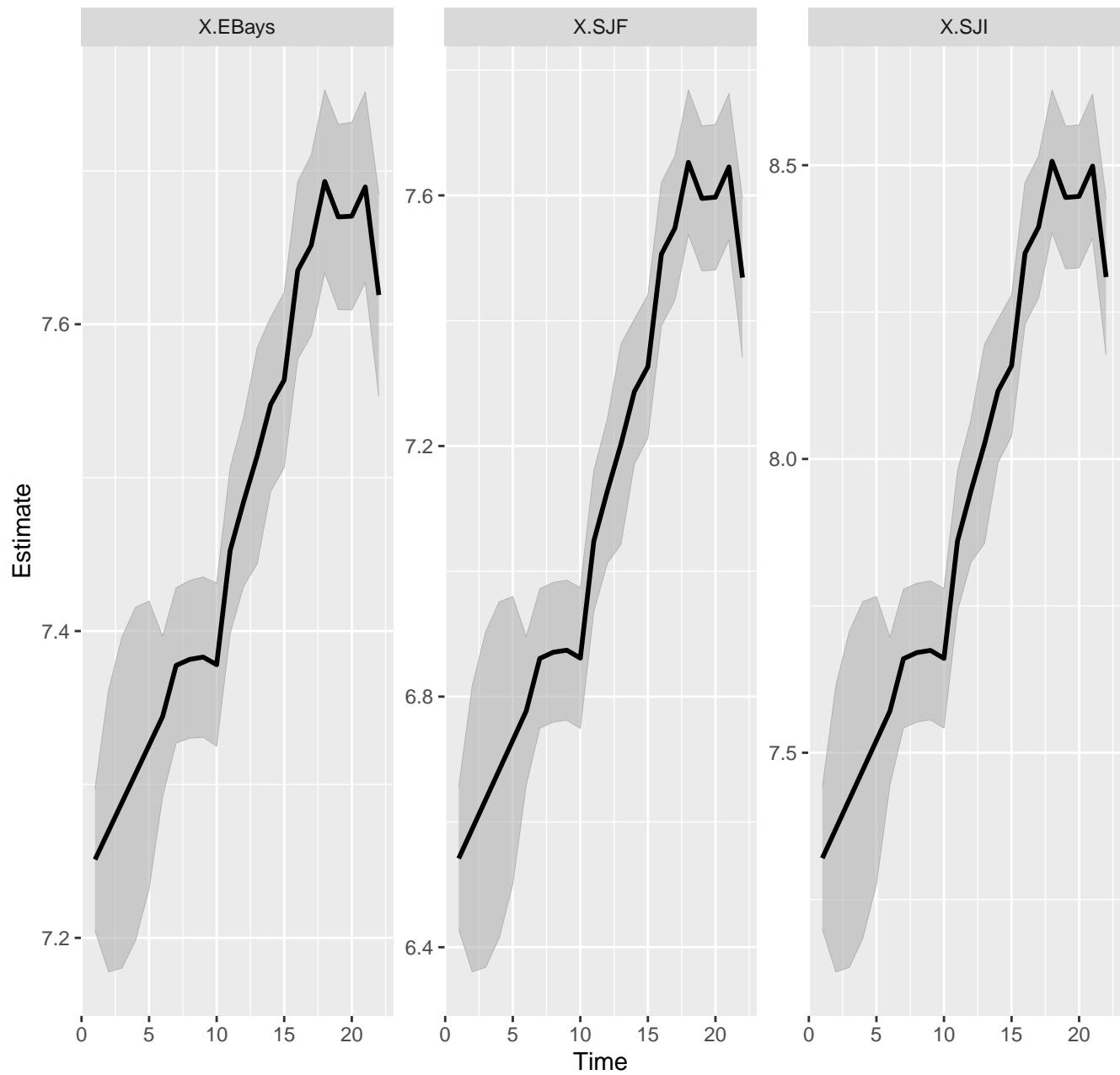
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

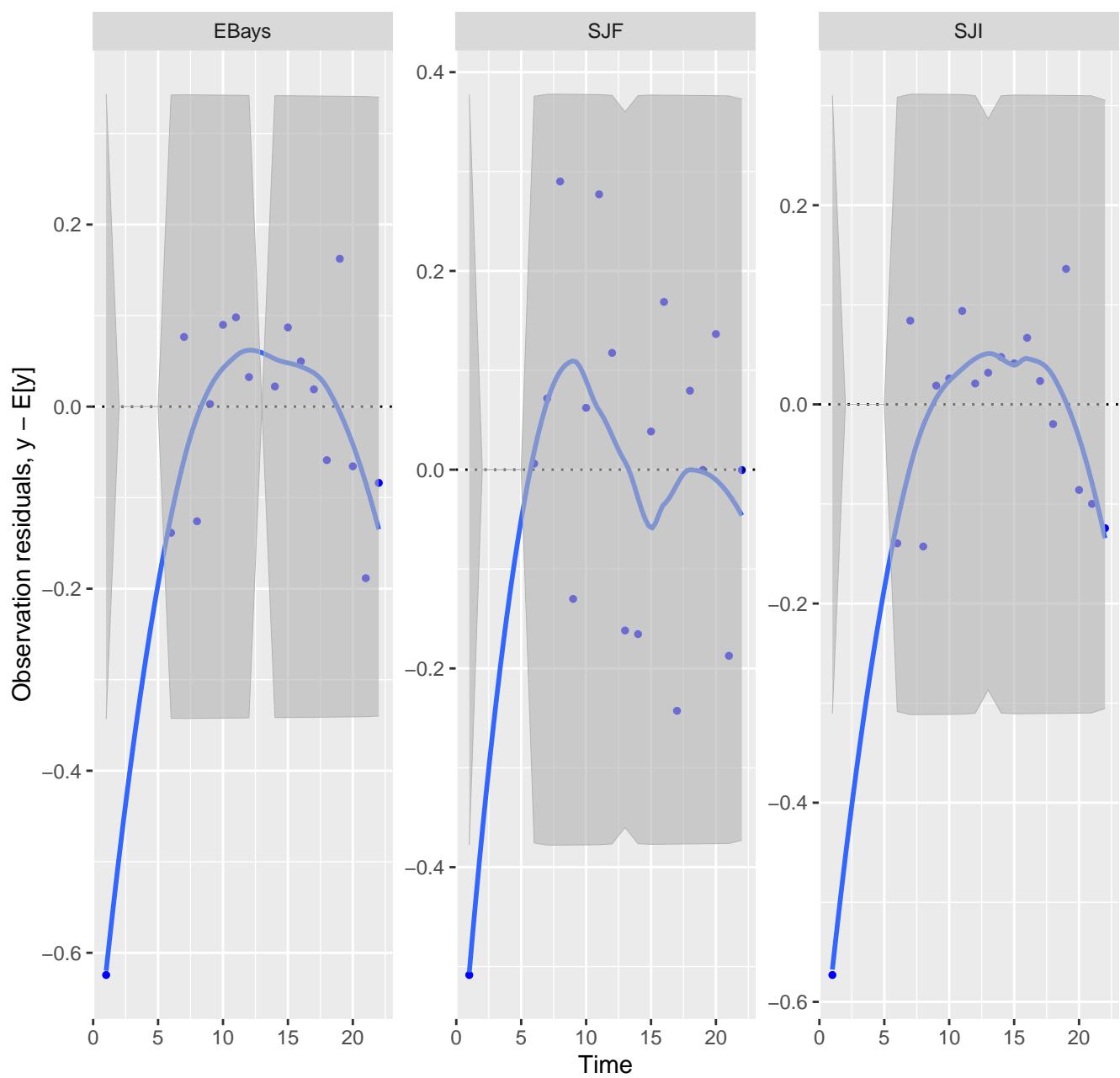
Model fitted Y + CI



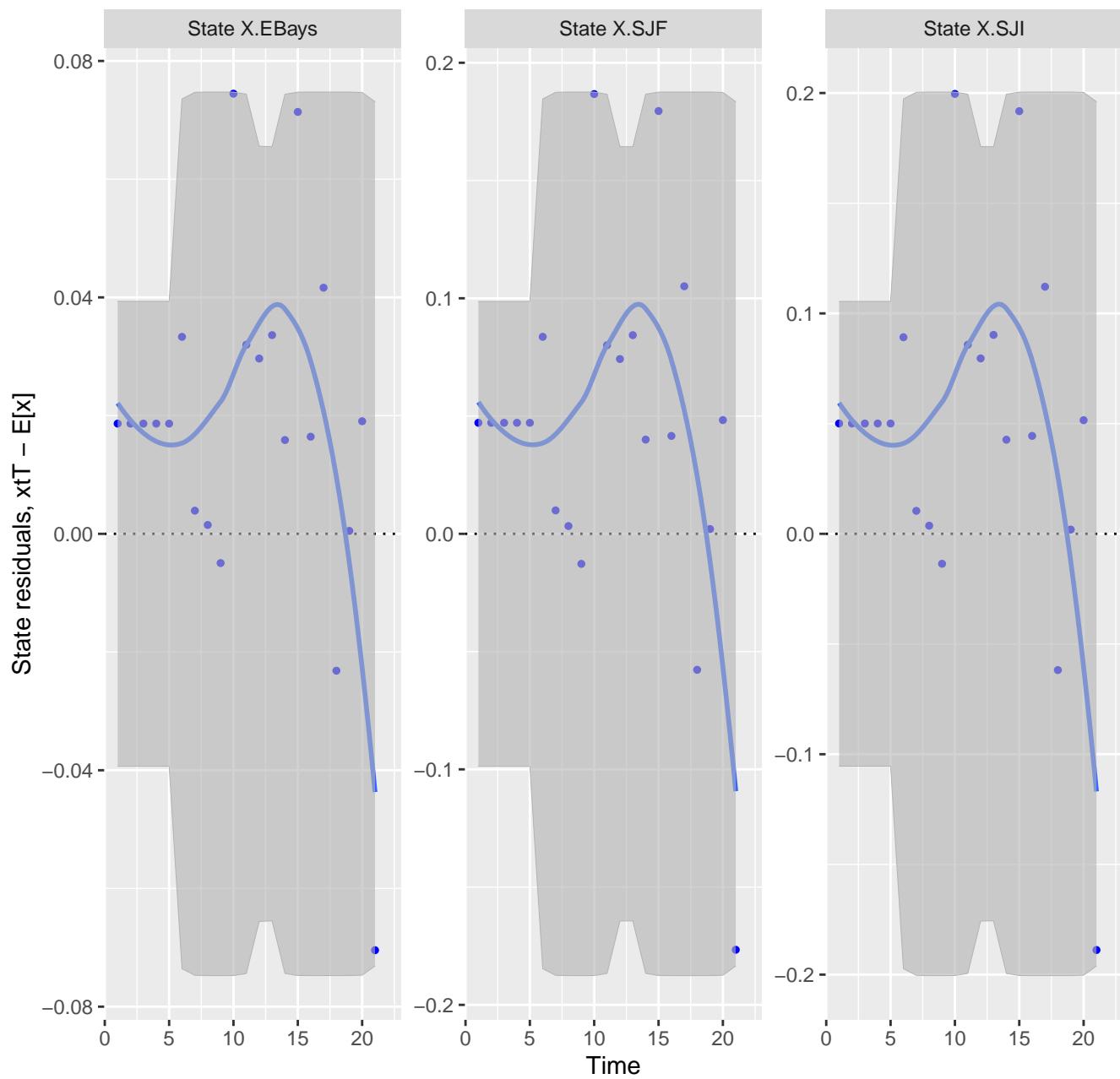
States



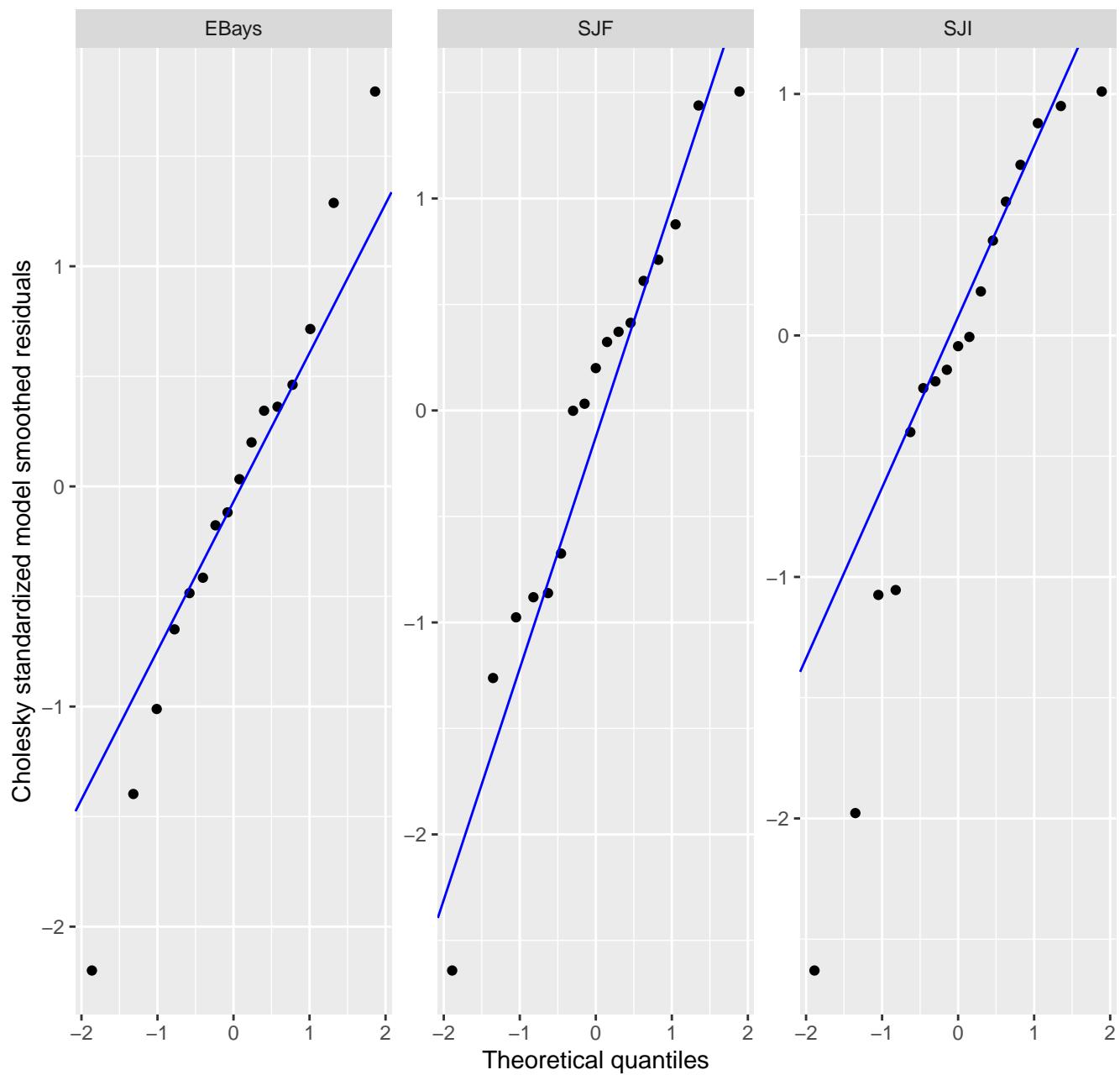
Model residuals



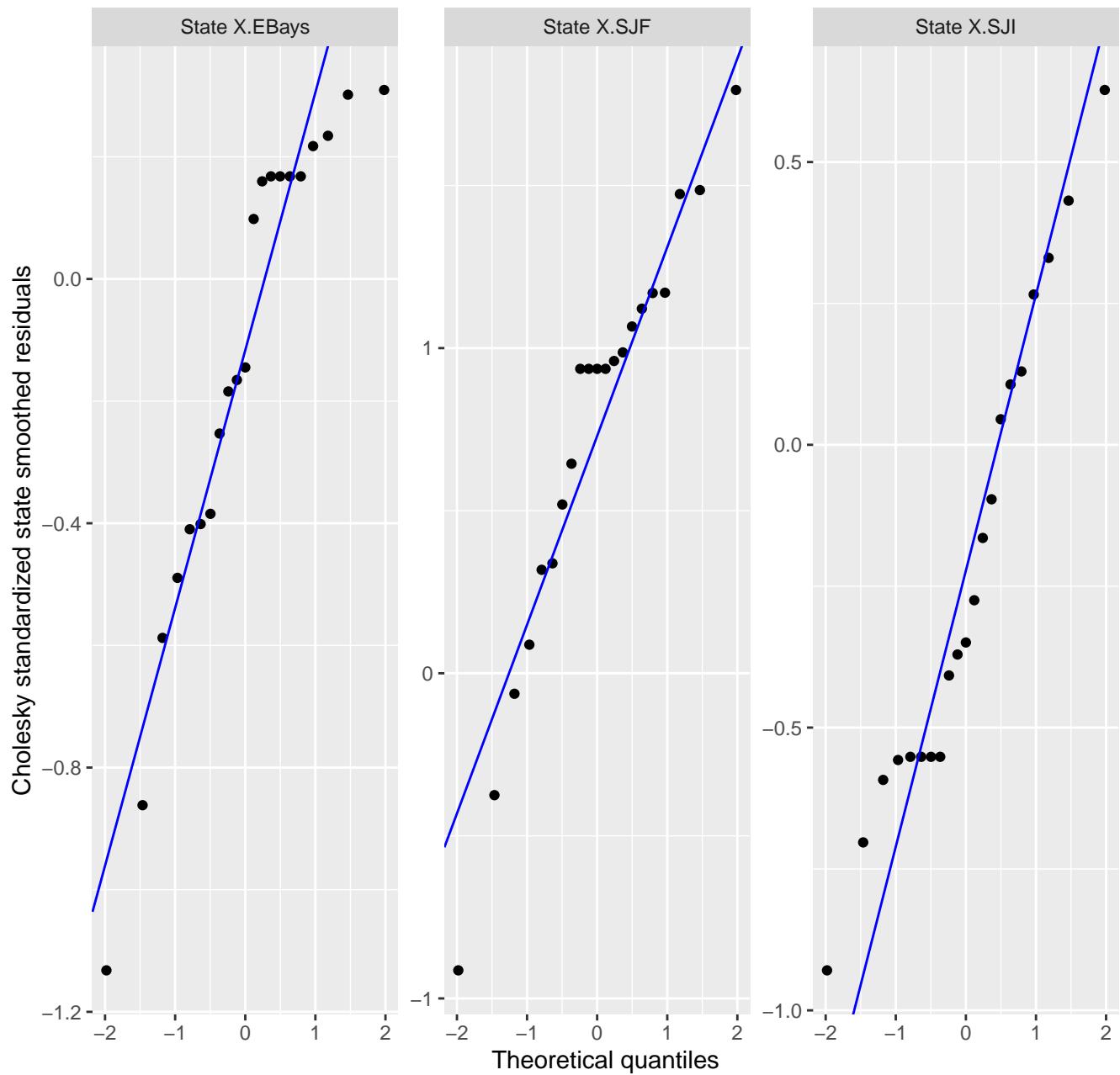
State residuals



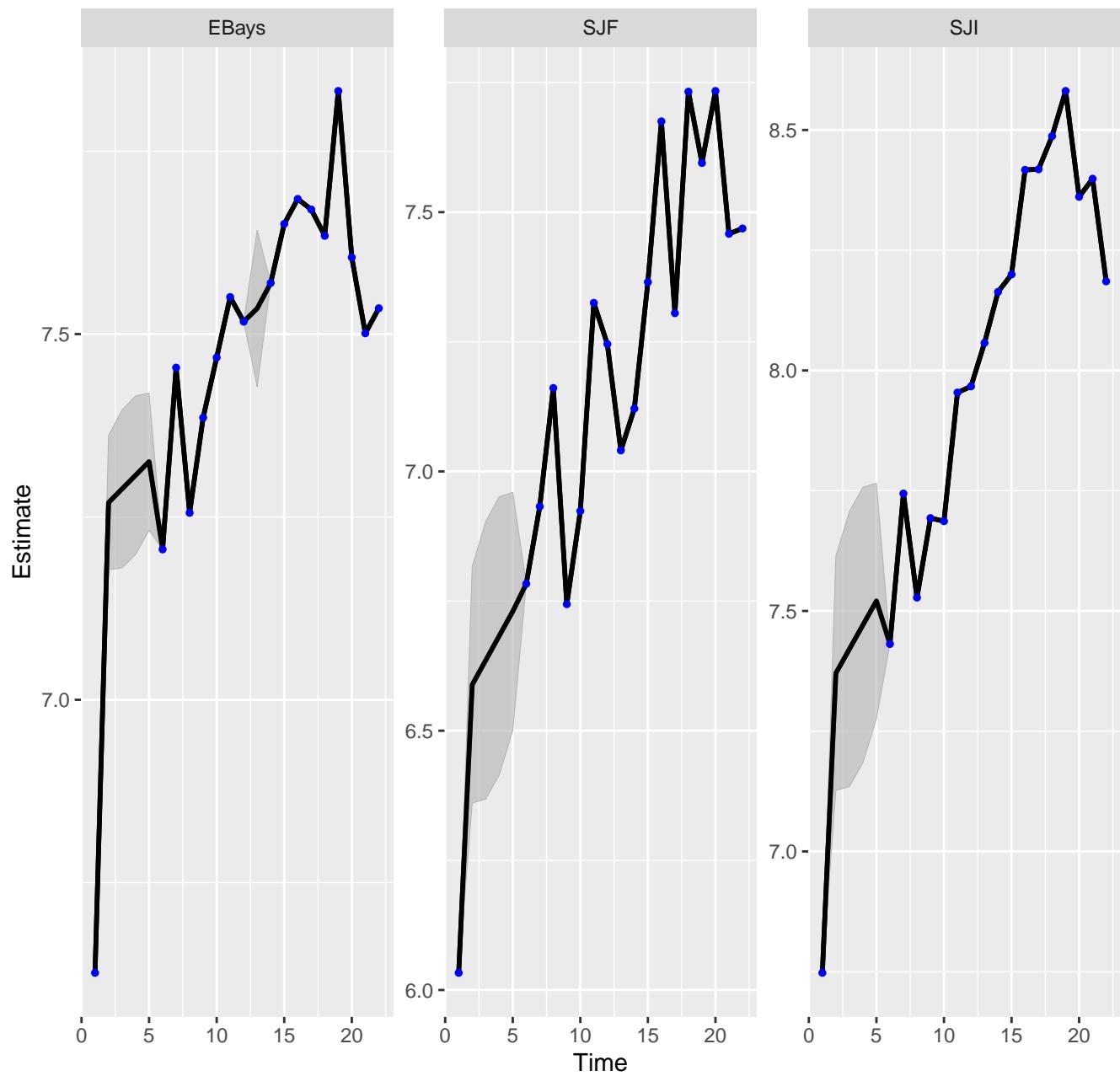
Model residuals normality test



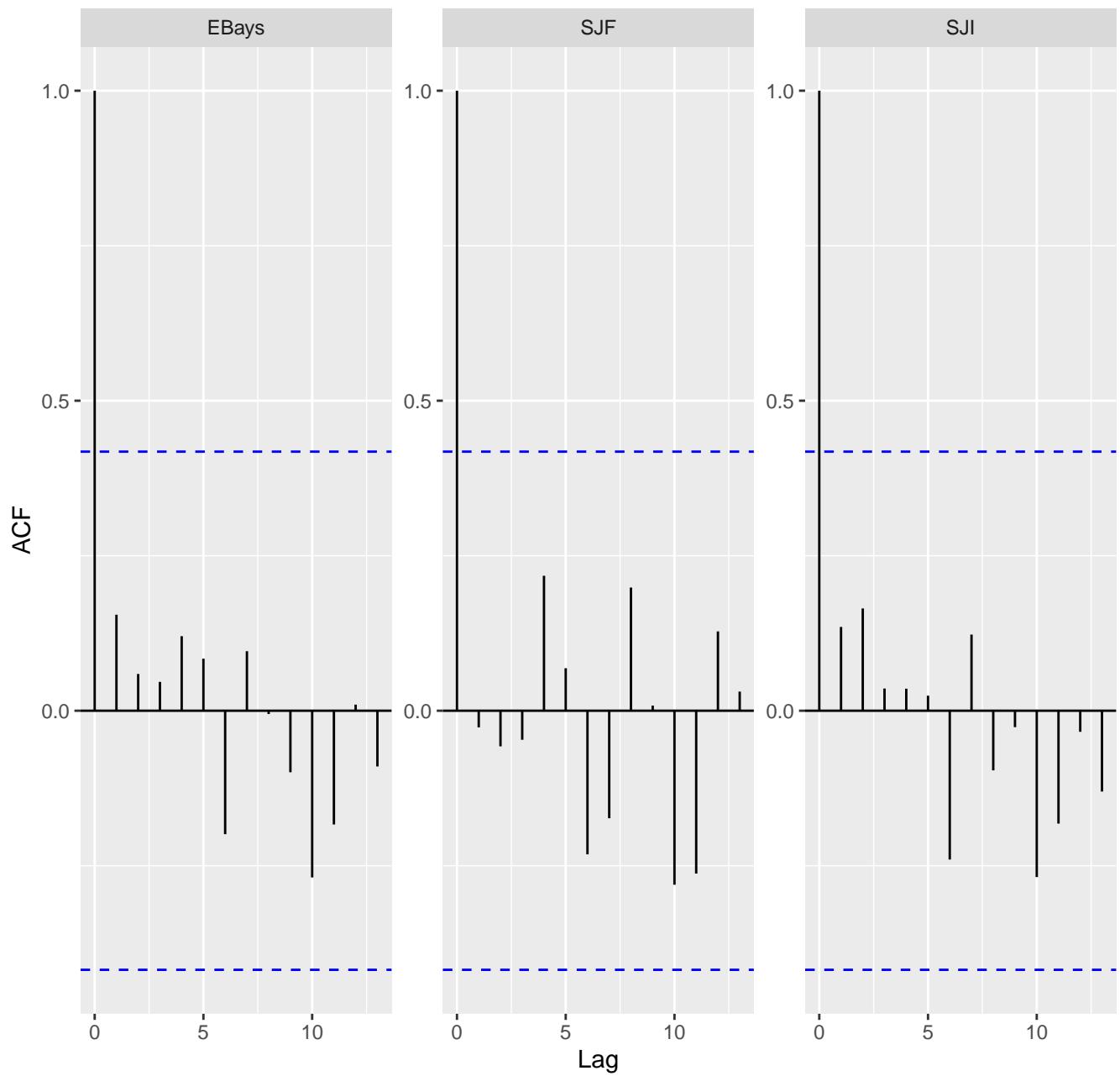
State residuals normality test

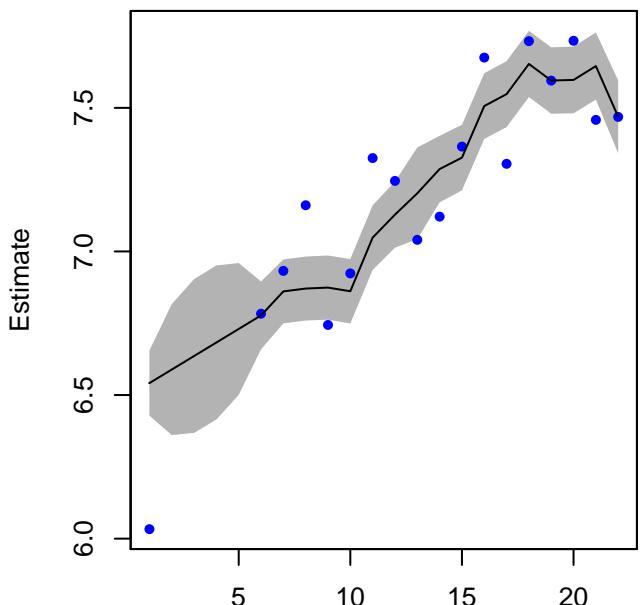
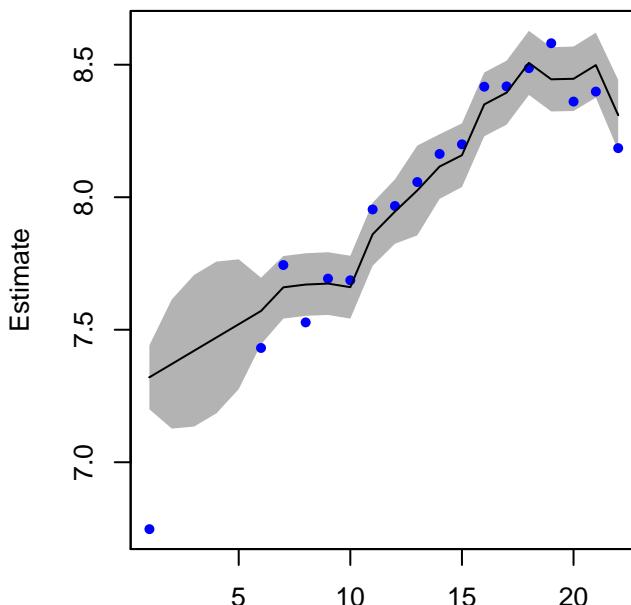
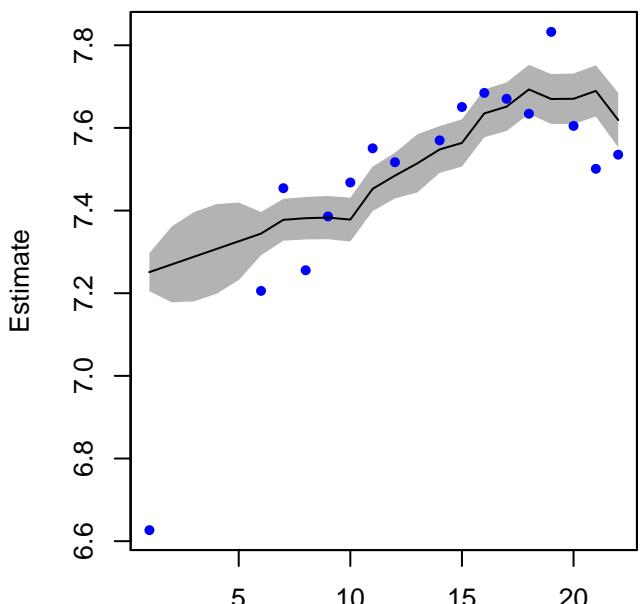


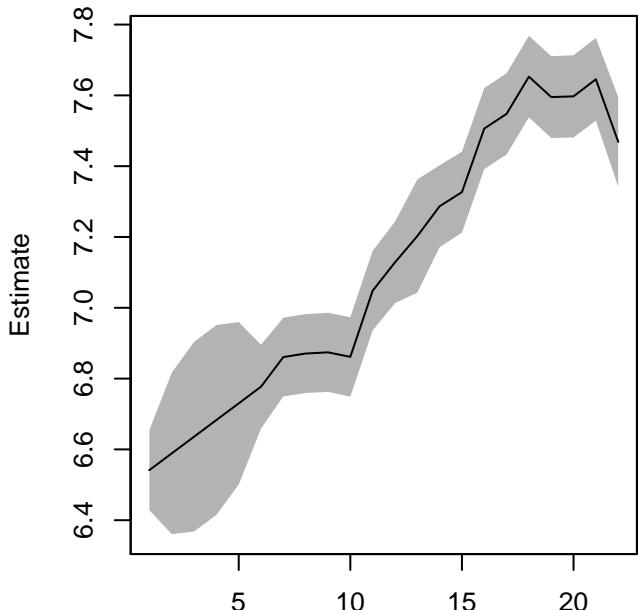
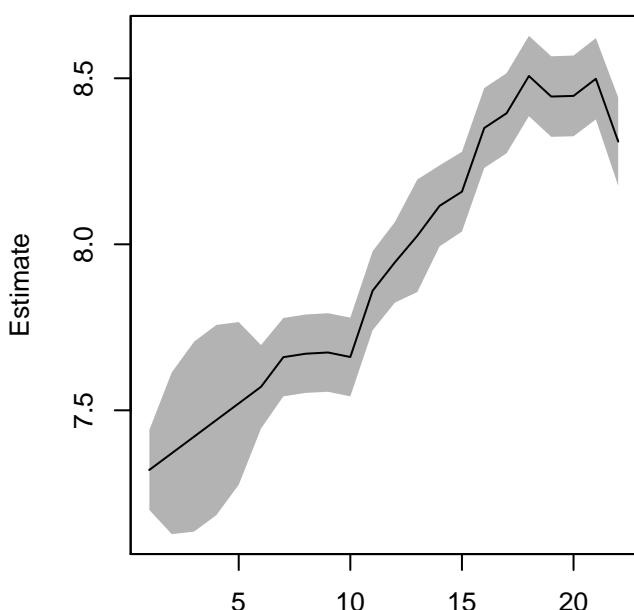
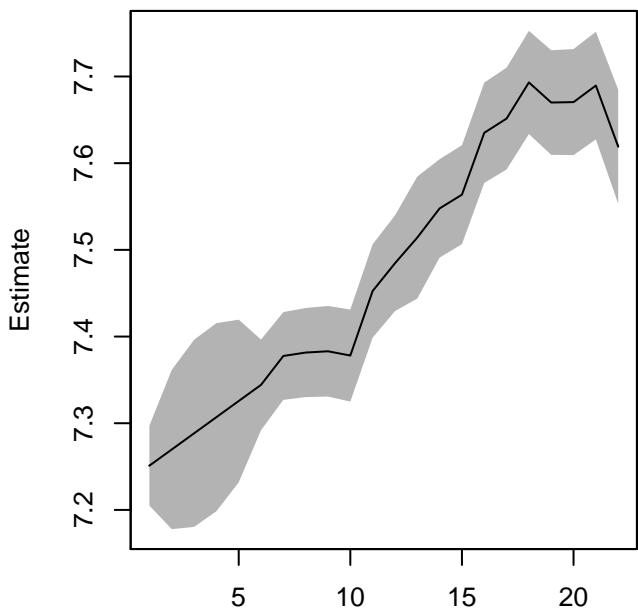
Expected value of Y conditioned on data



Model innovations residuals ACF

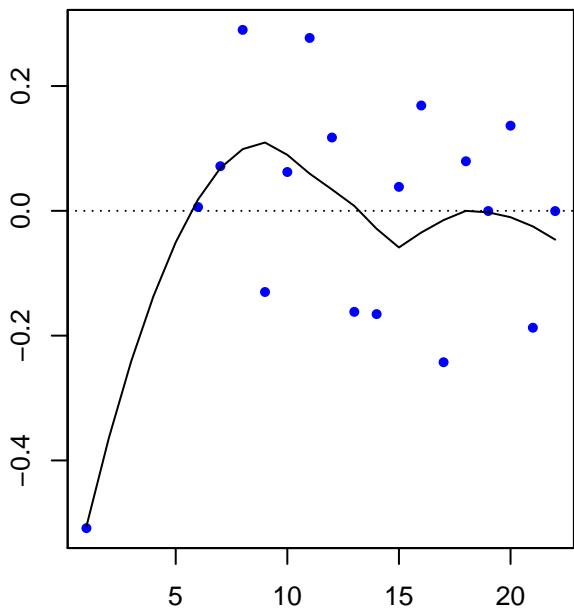


SJF + CI**SJI + CI****EBays + CI**

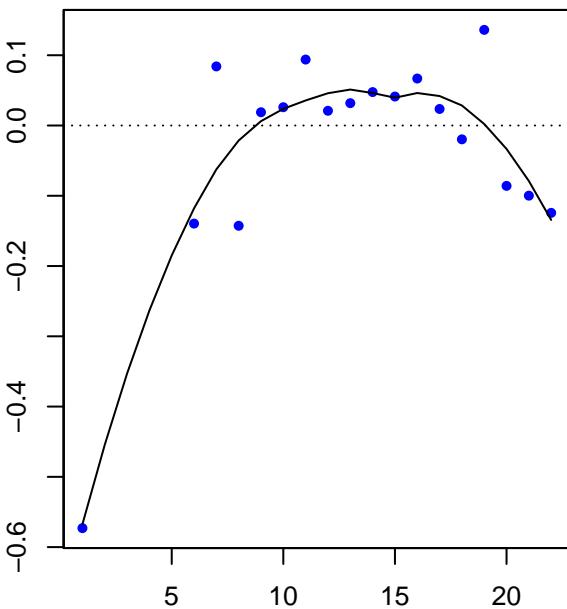
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

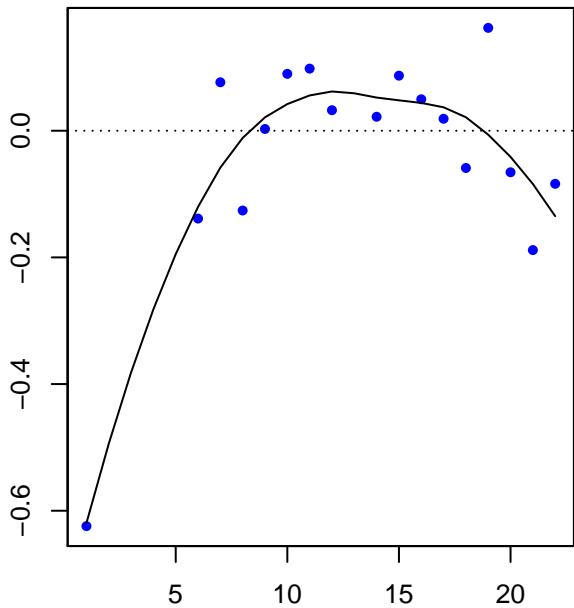
SJF



SJI

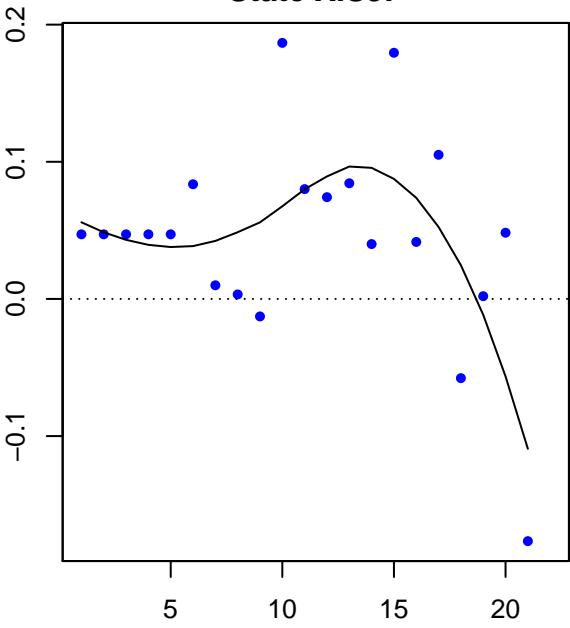


EBays

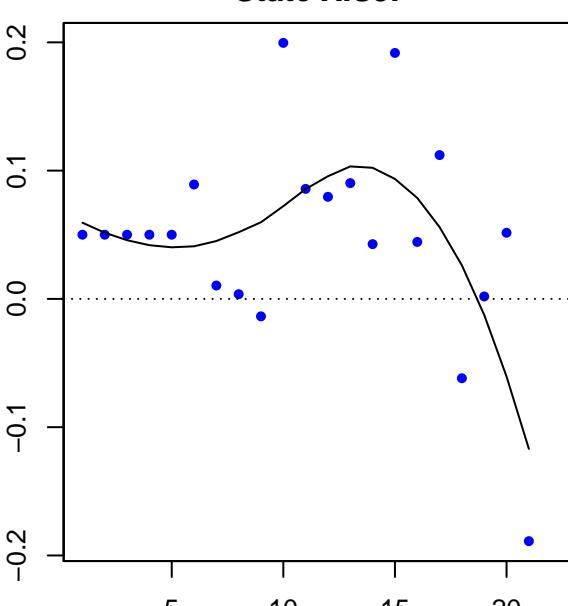


State residuals, $x_{tT} - E[x]$

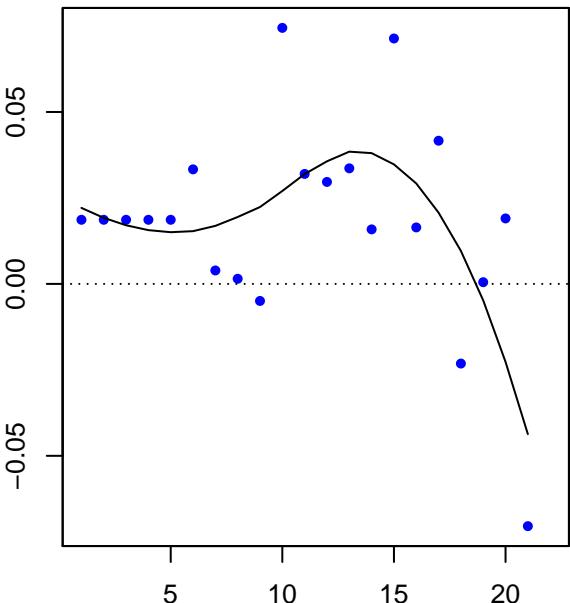
State X.SJF

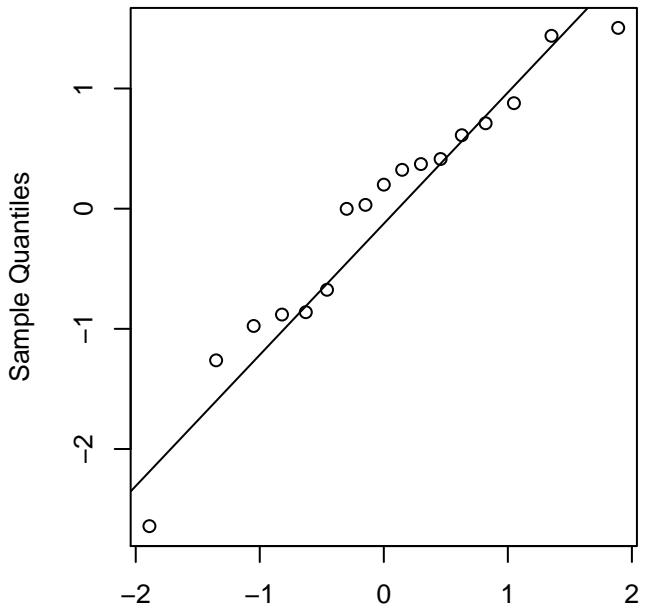
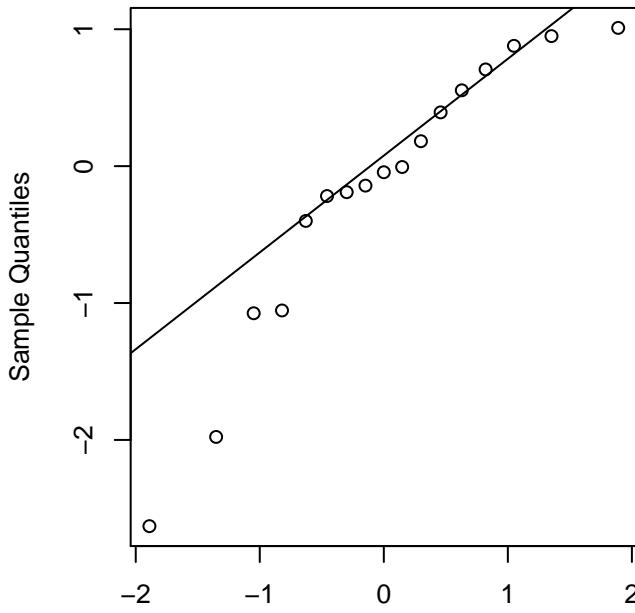
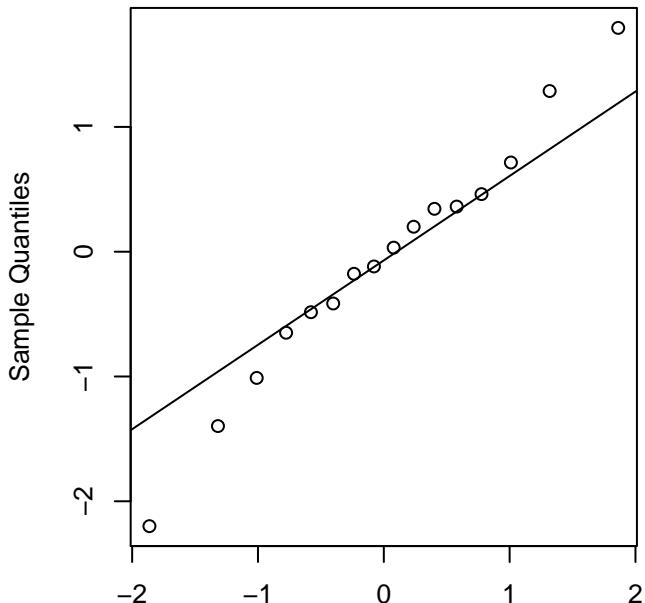


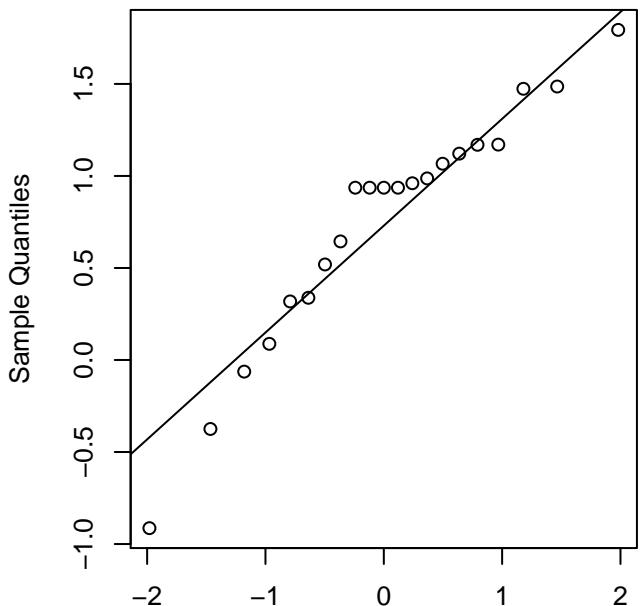
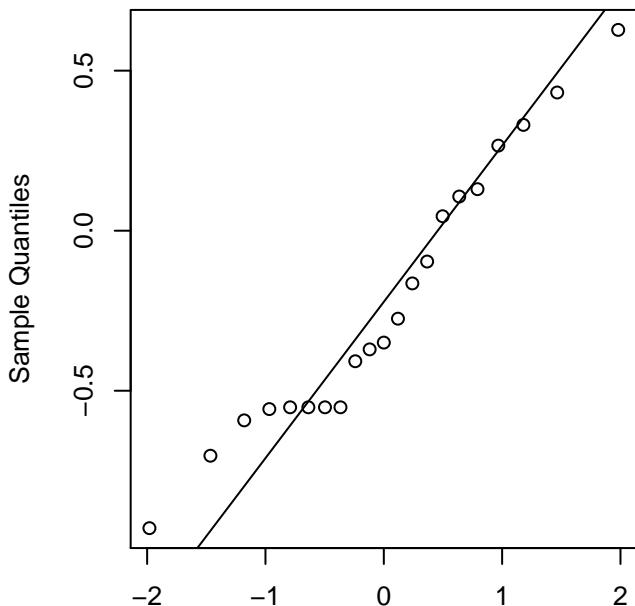
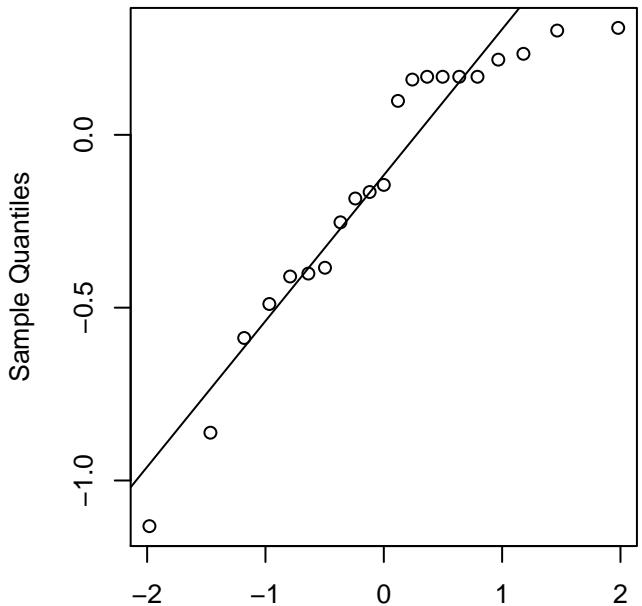
State X.SJI

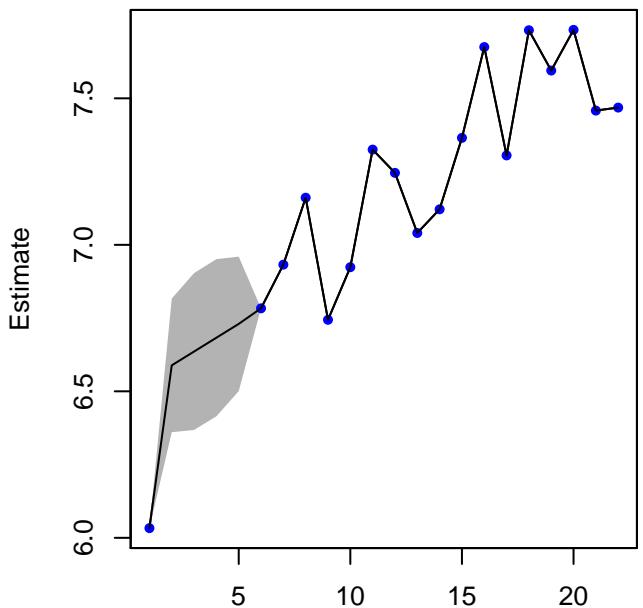
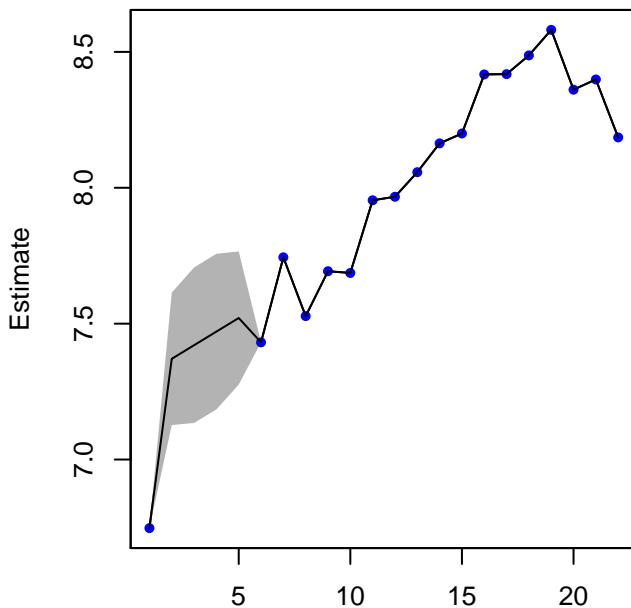
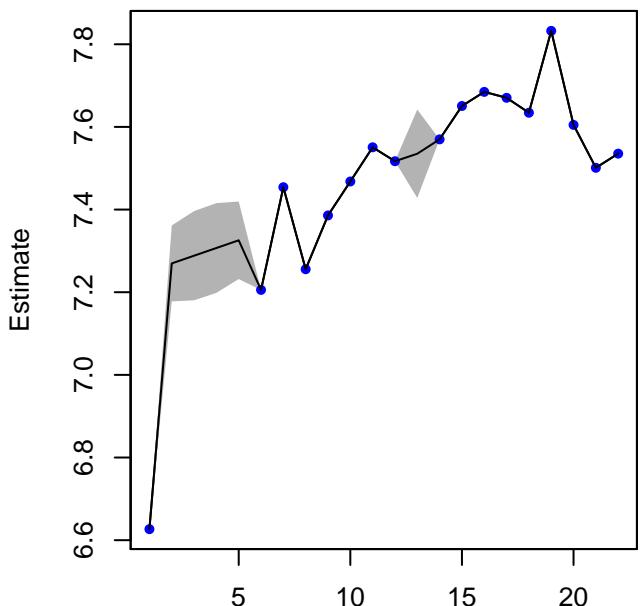


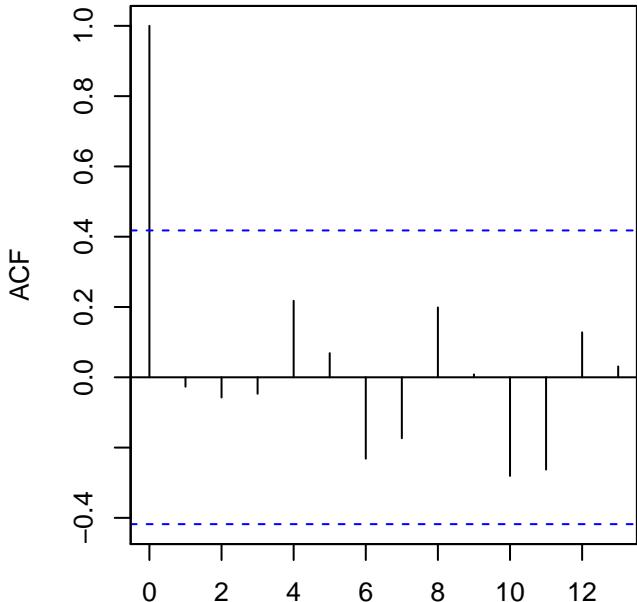
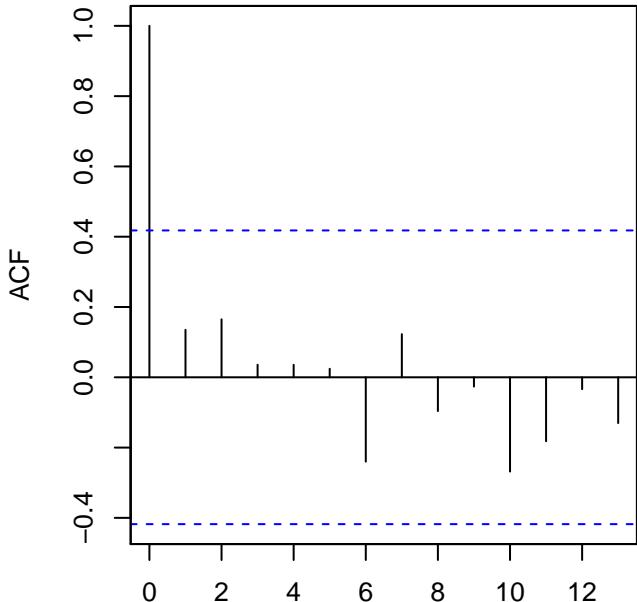
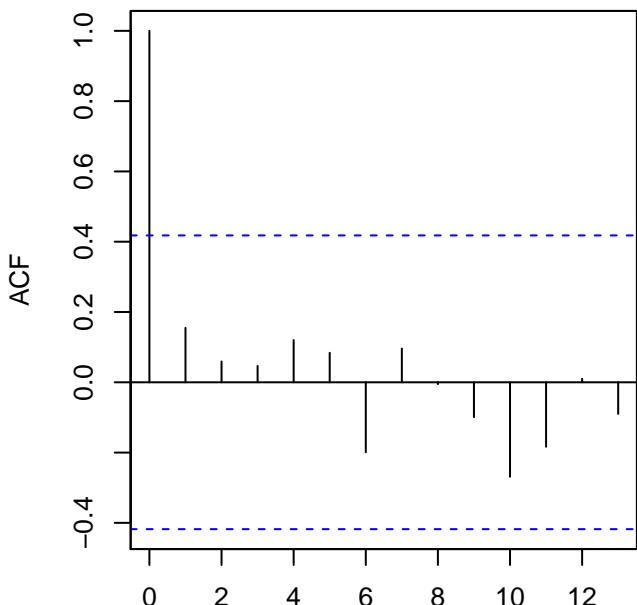
State X.EBays



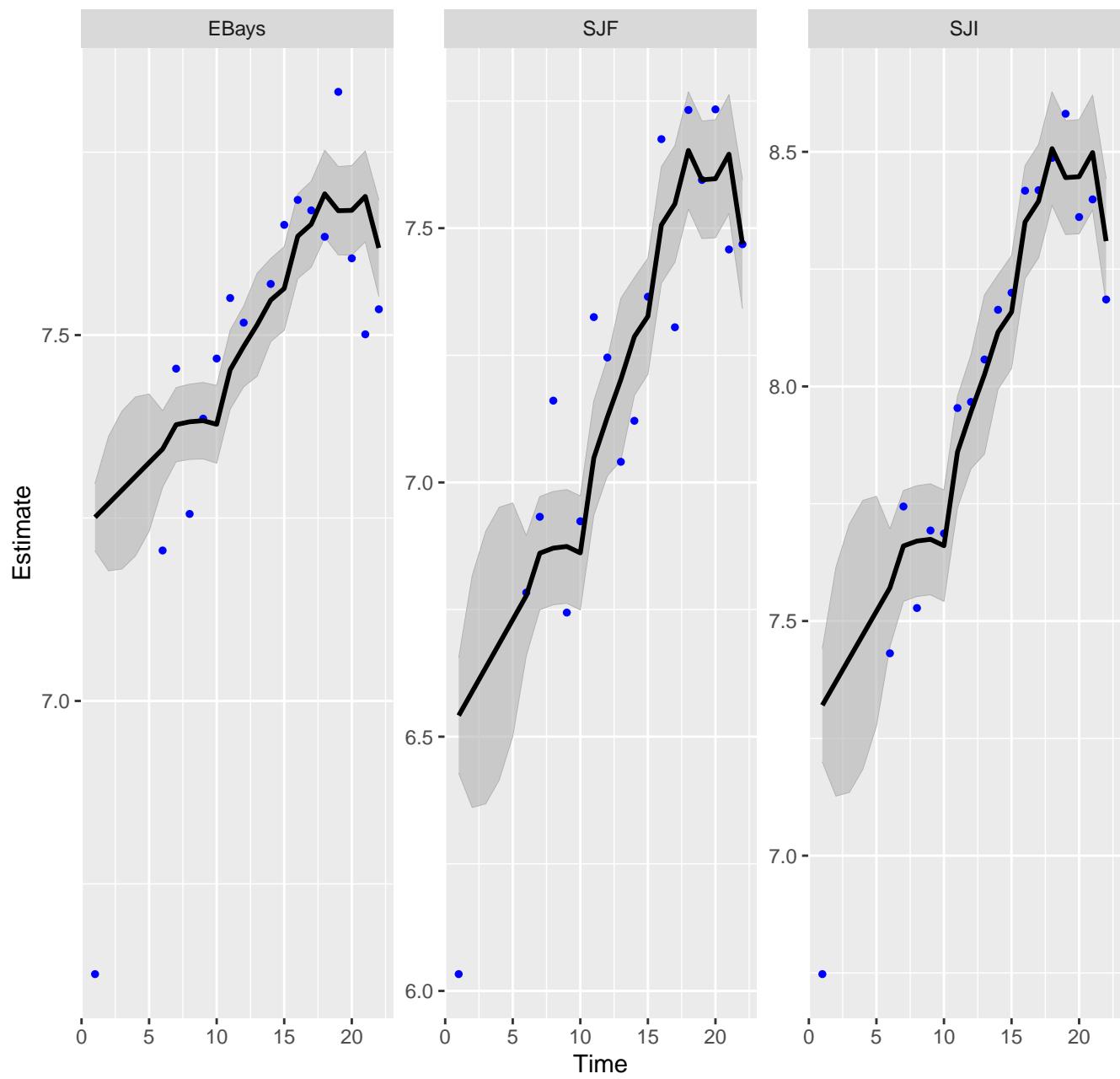
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

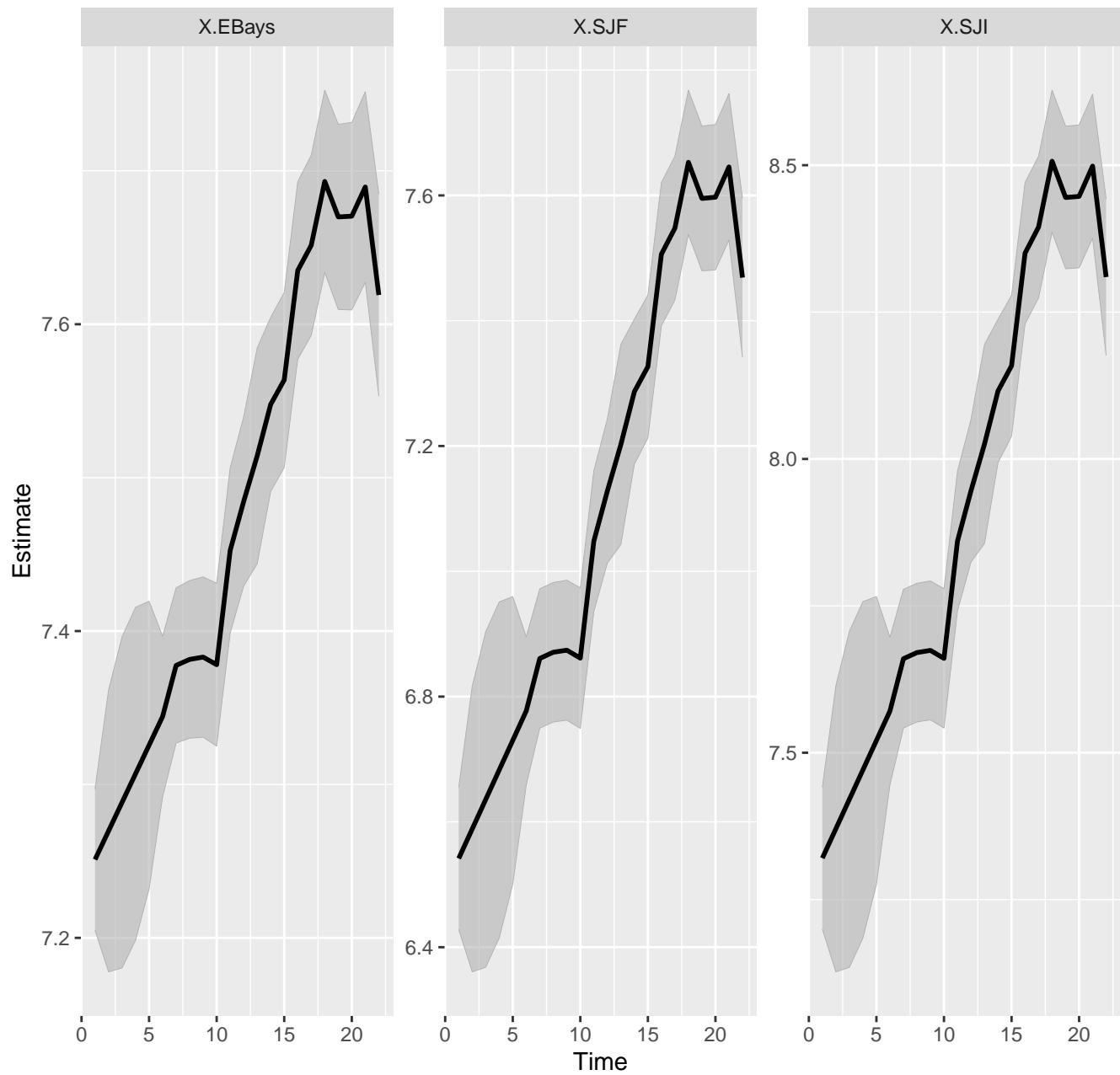
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

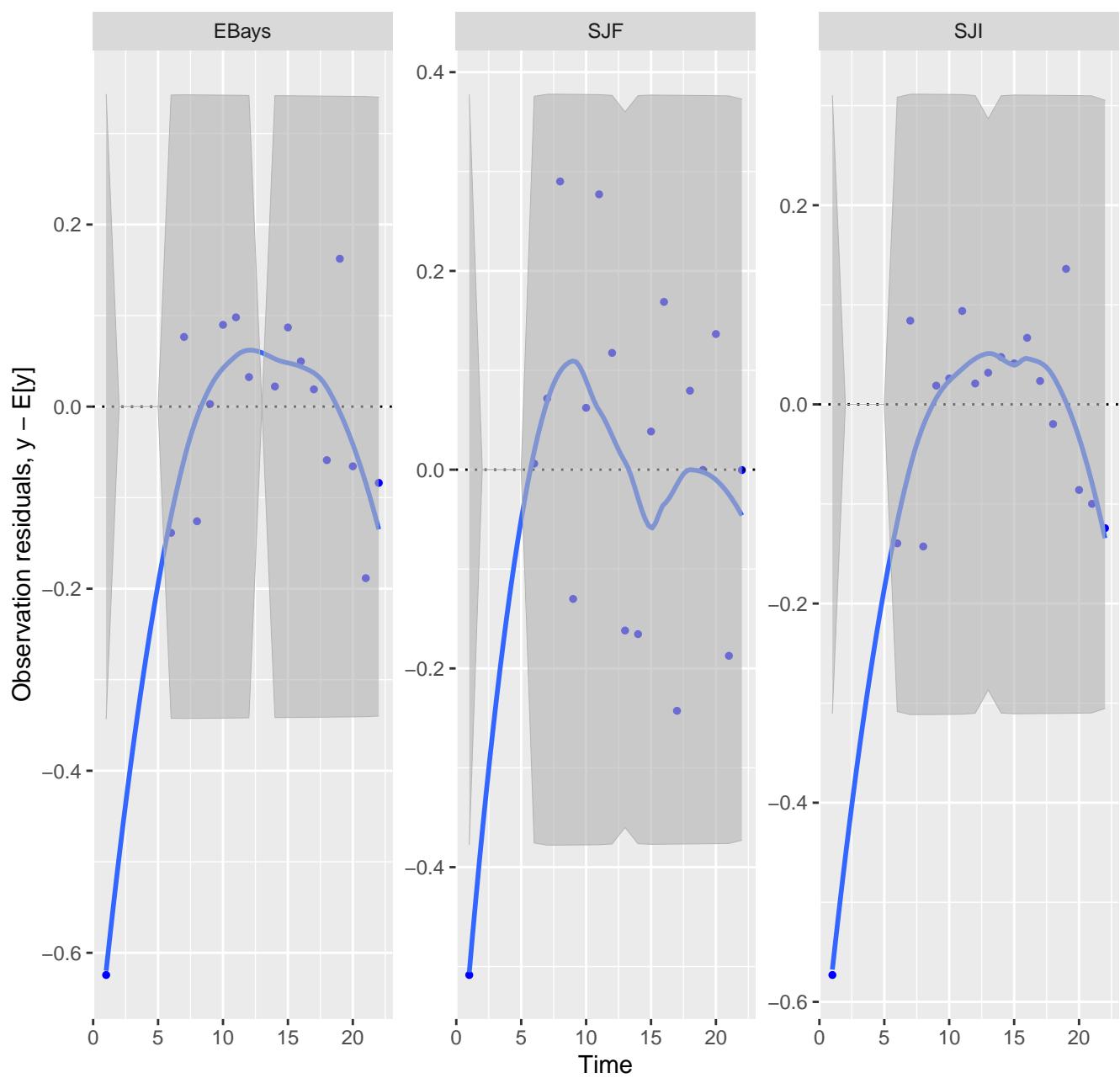
Model fitted Y + CI



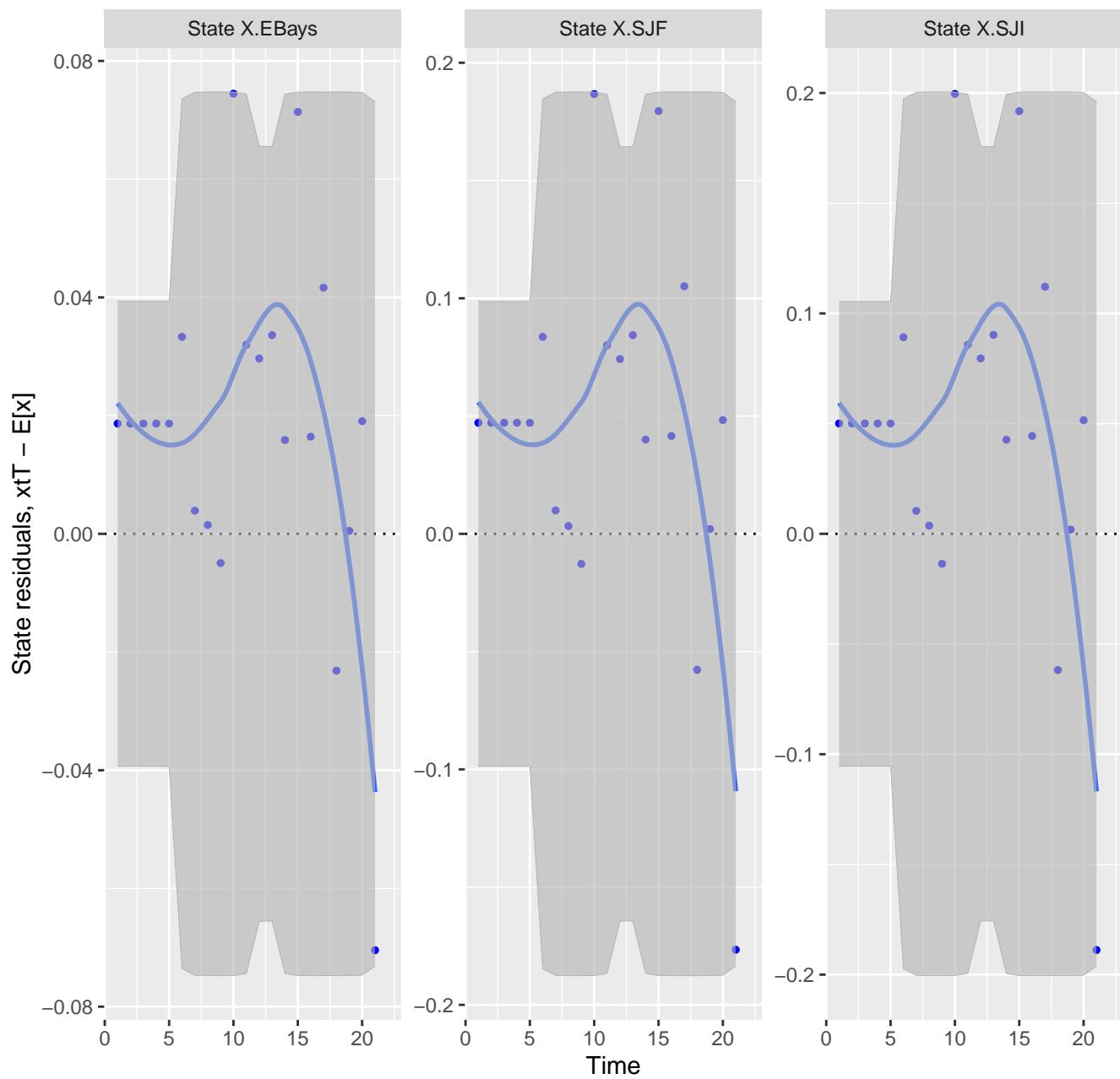
States



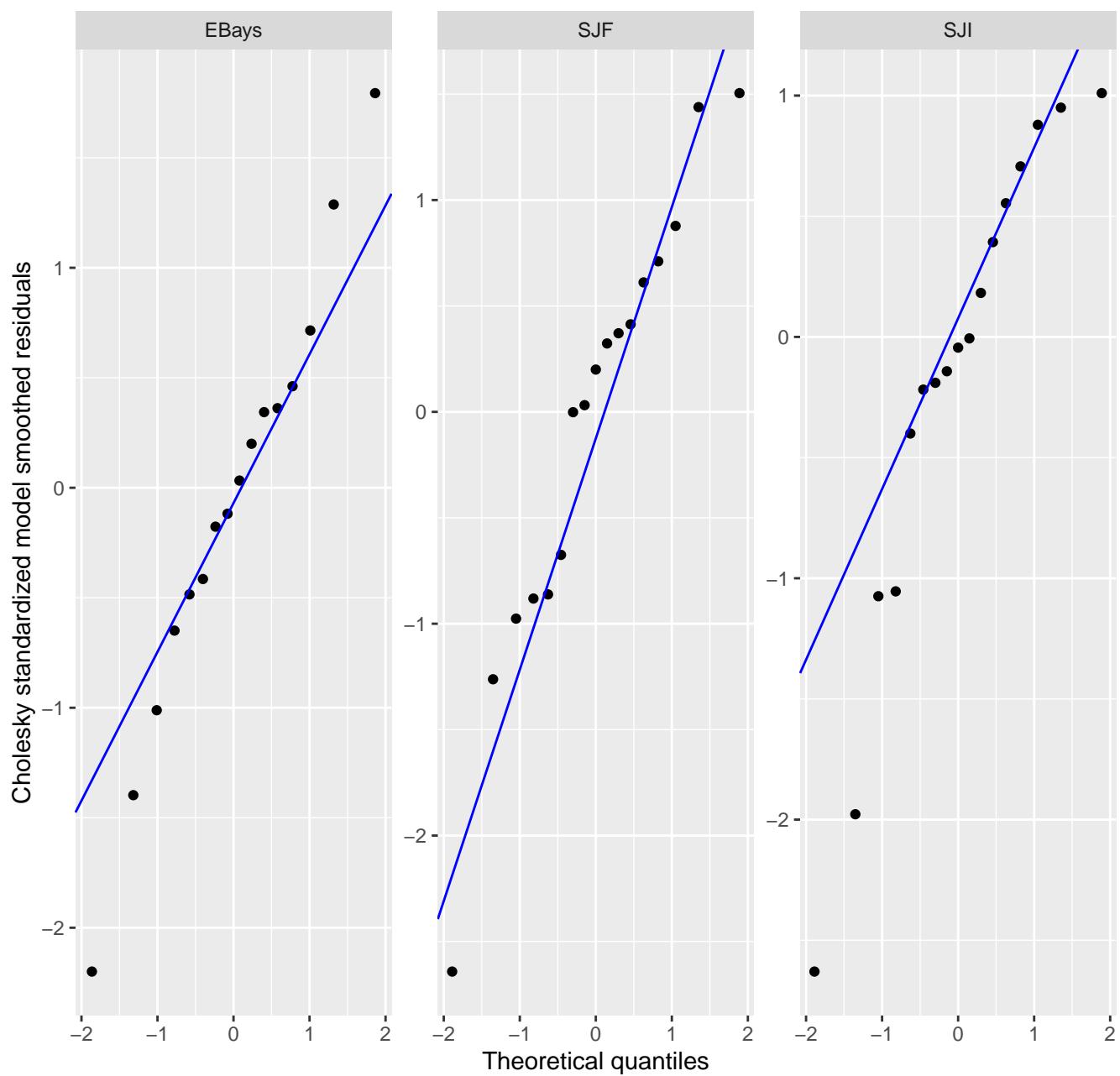
Model residuals



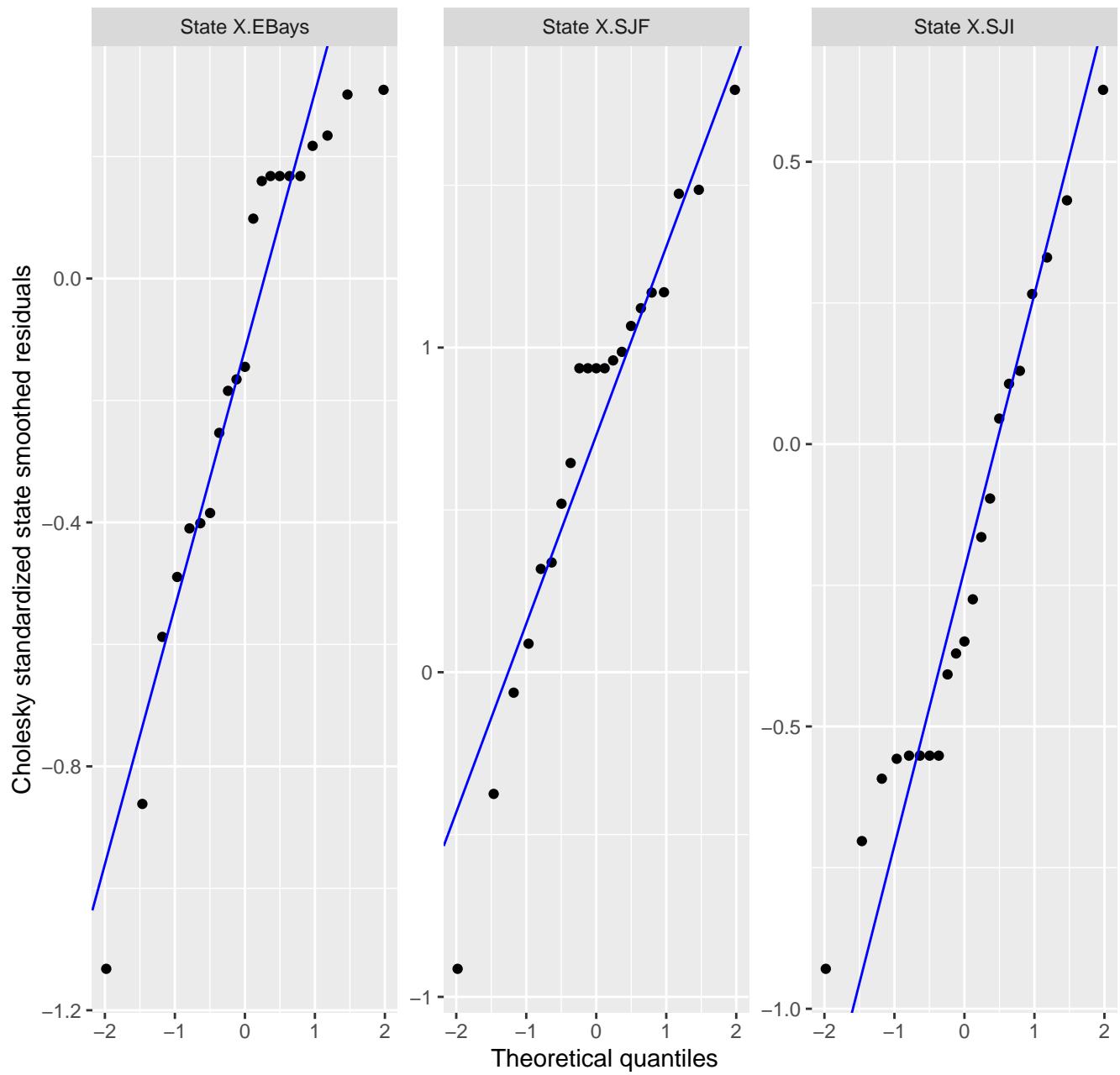
State residuals



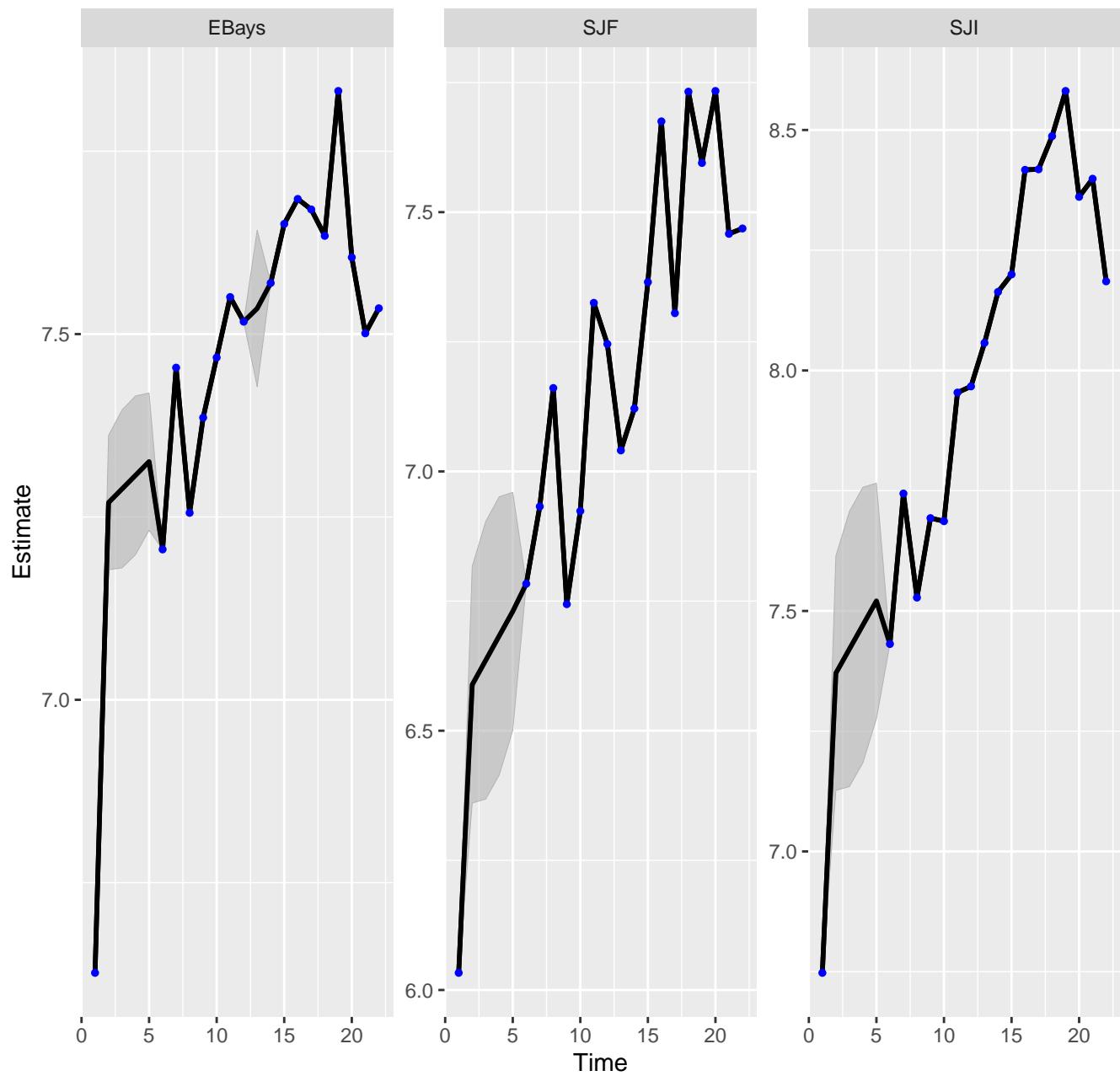
Model residuals normality test



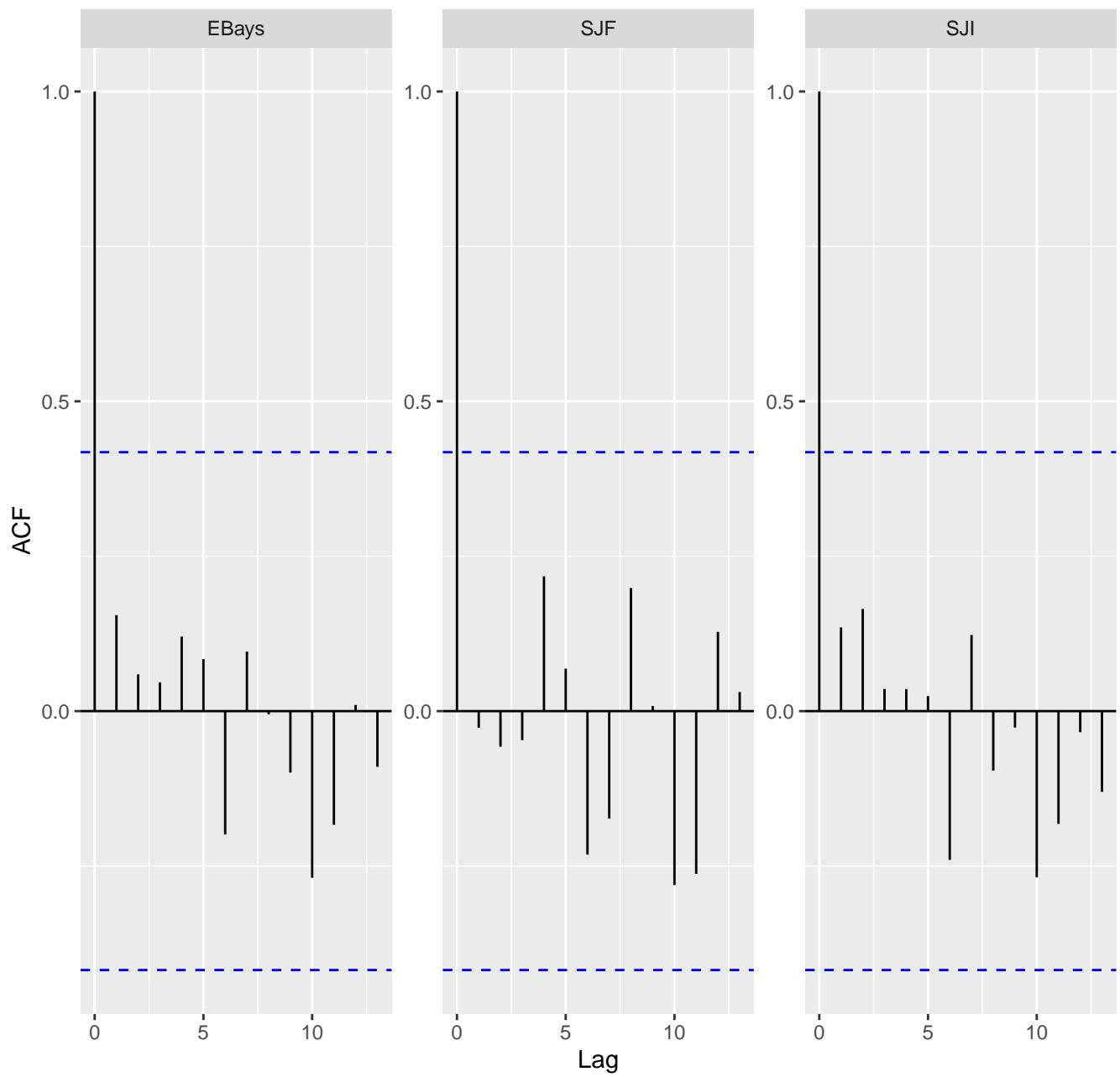
State residuals normality test

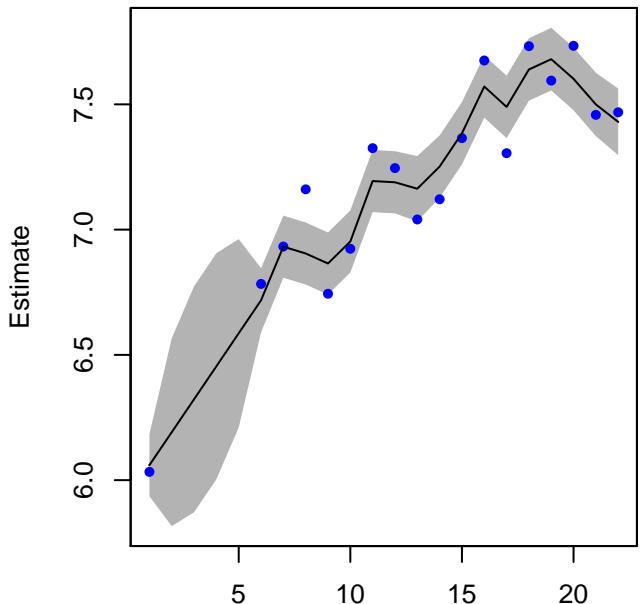
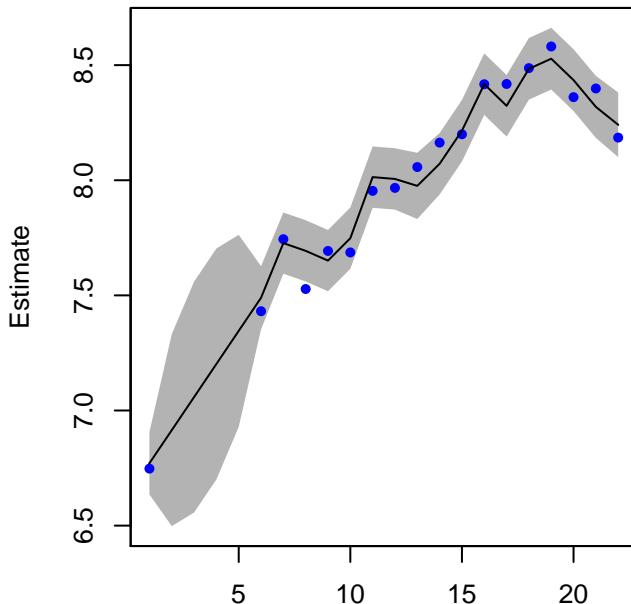
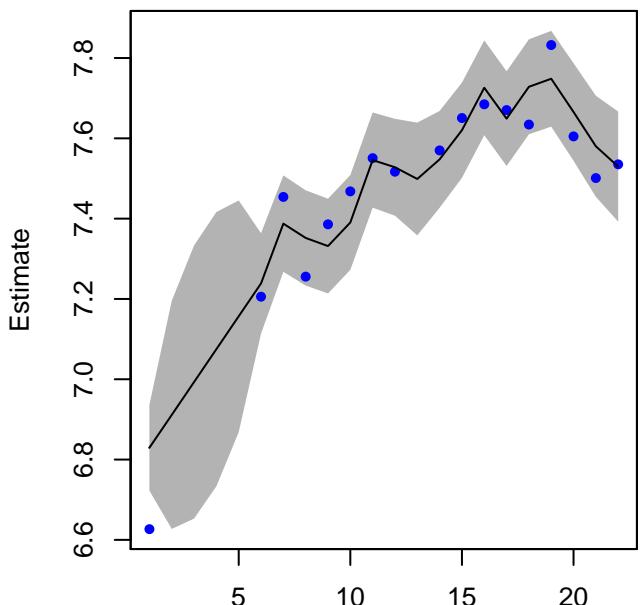


Expected value of Y conditioned on data

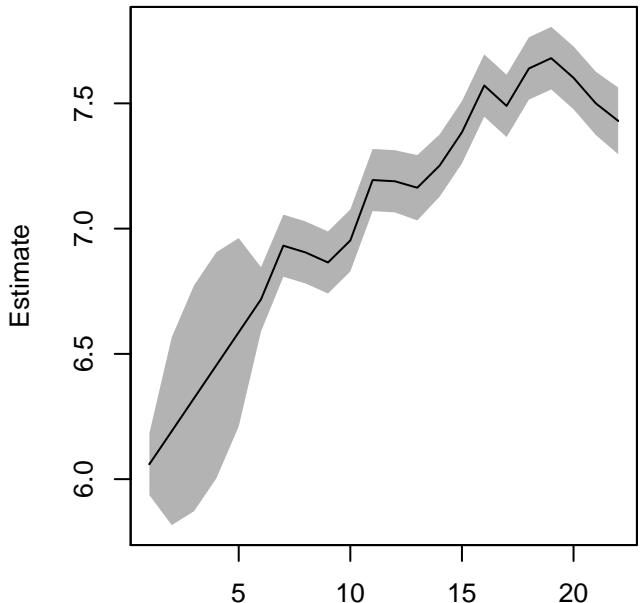


Model innovations residuals ACF

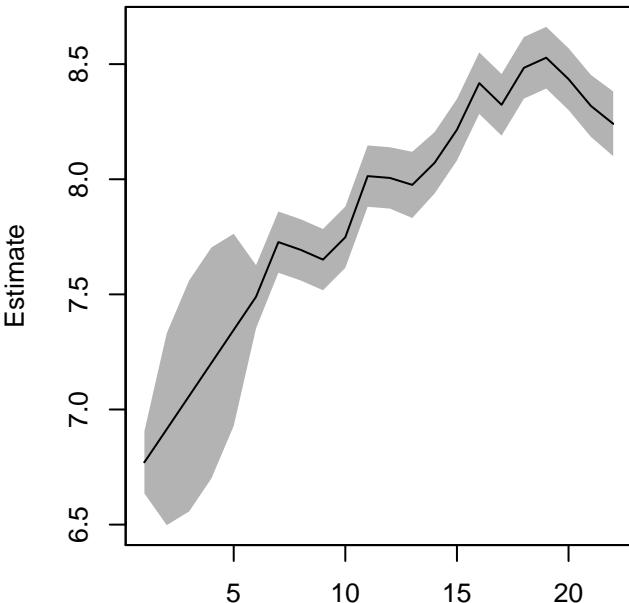


SJF + CI**SJI + CI****EBays + CI**

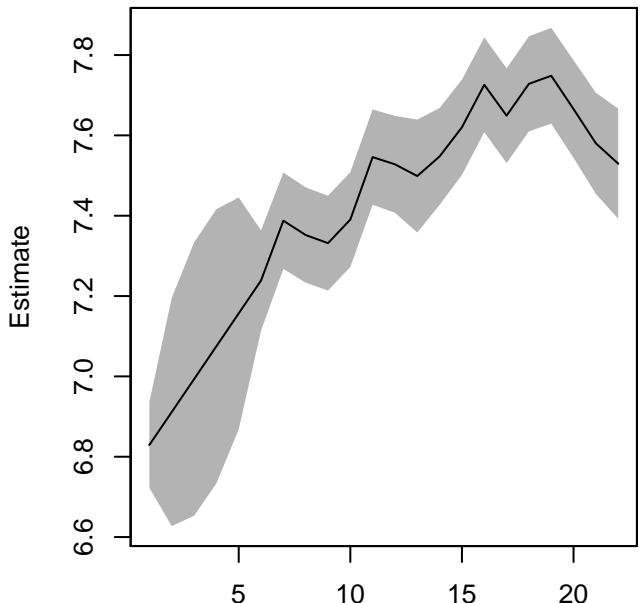
State X.SJF

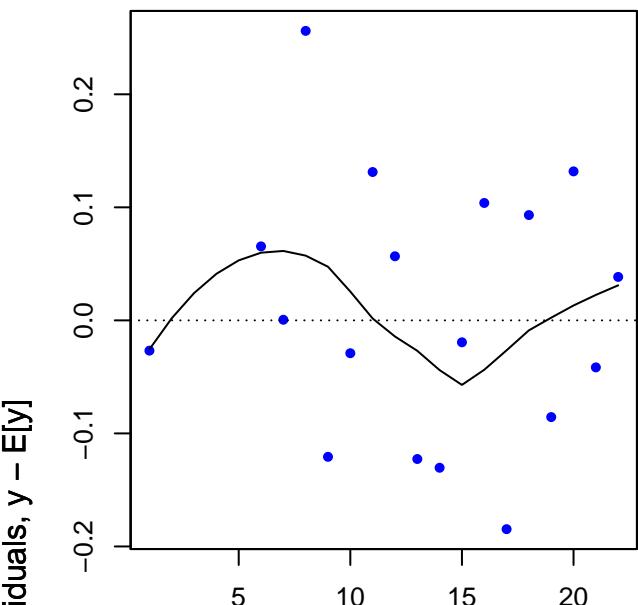
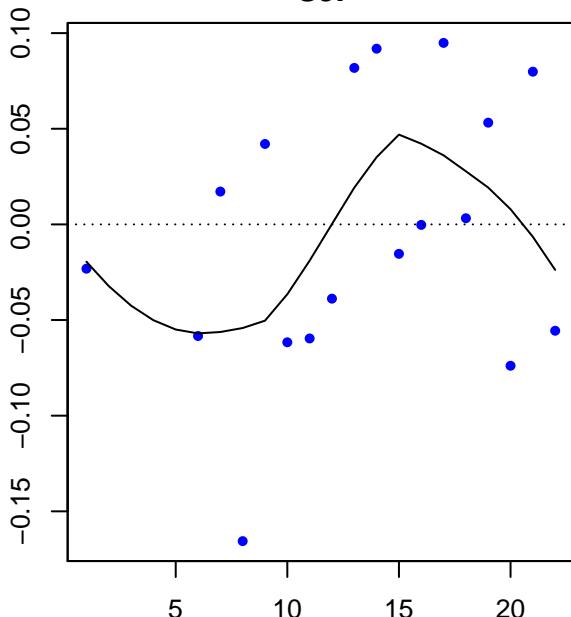
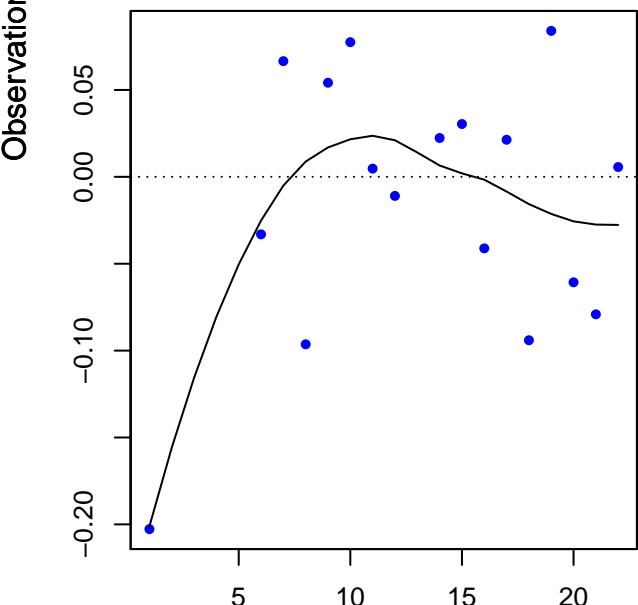


State X.SJI

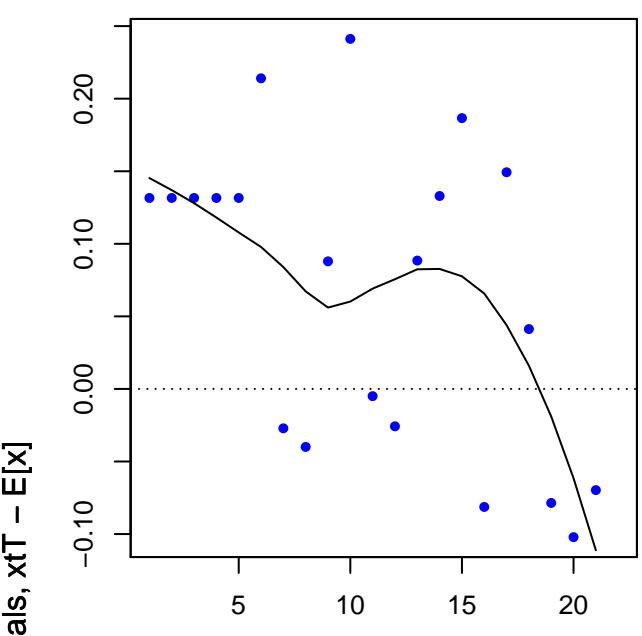


State X.EBays

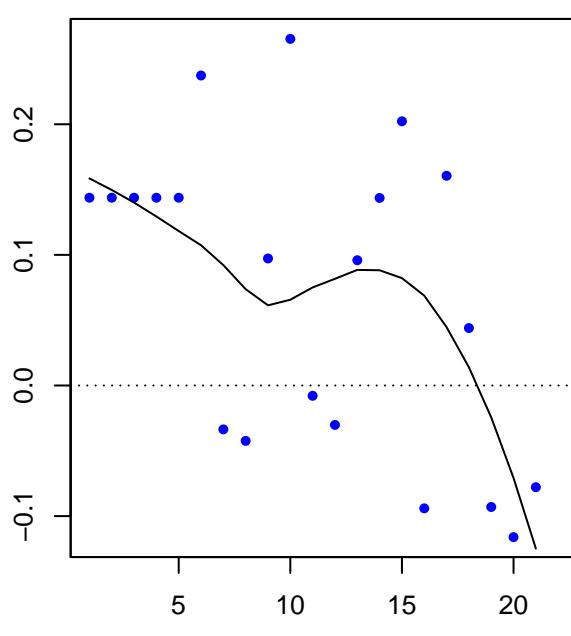


SJF**SJI****EBays**

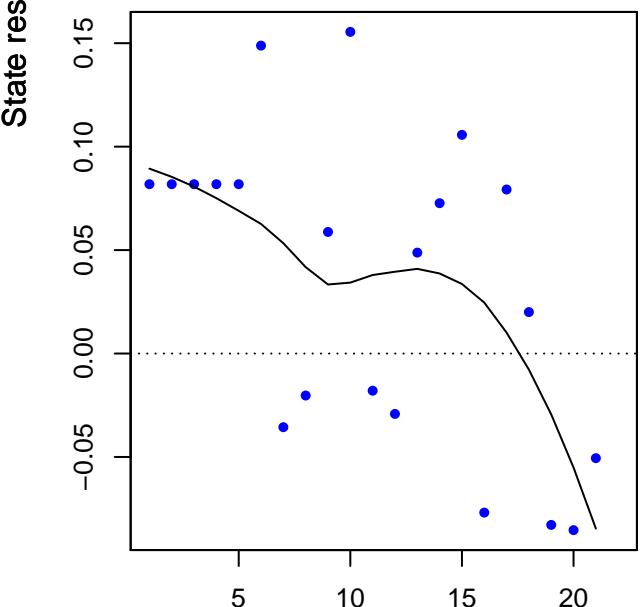
State X.SJF

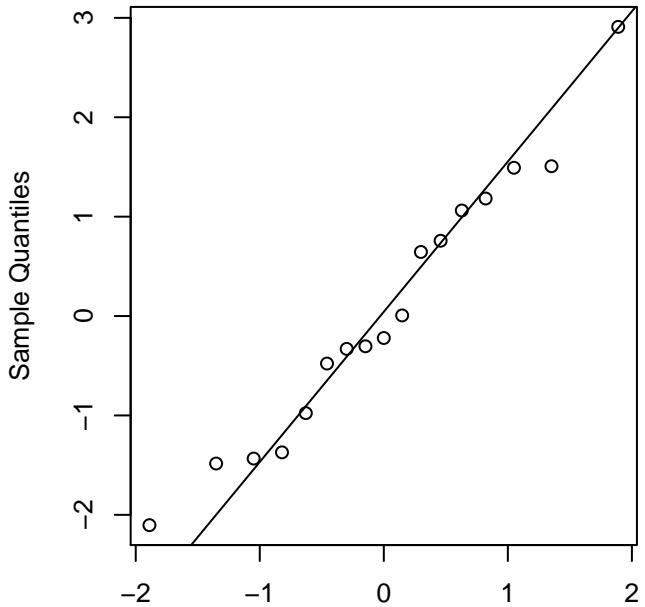
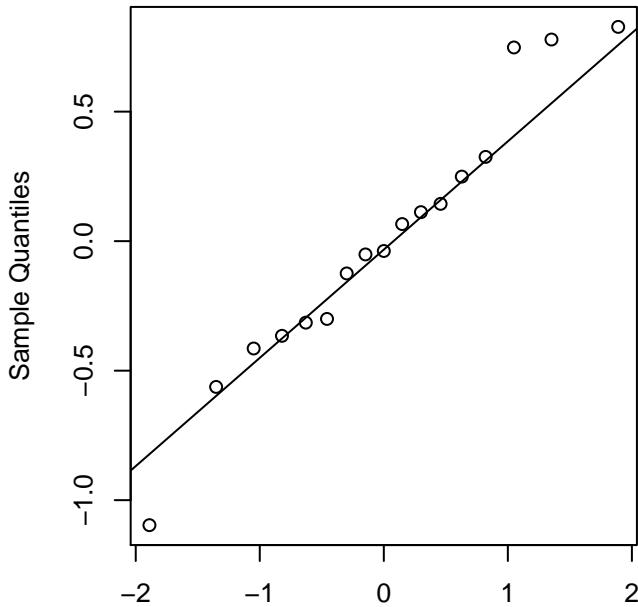
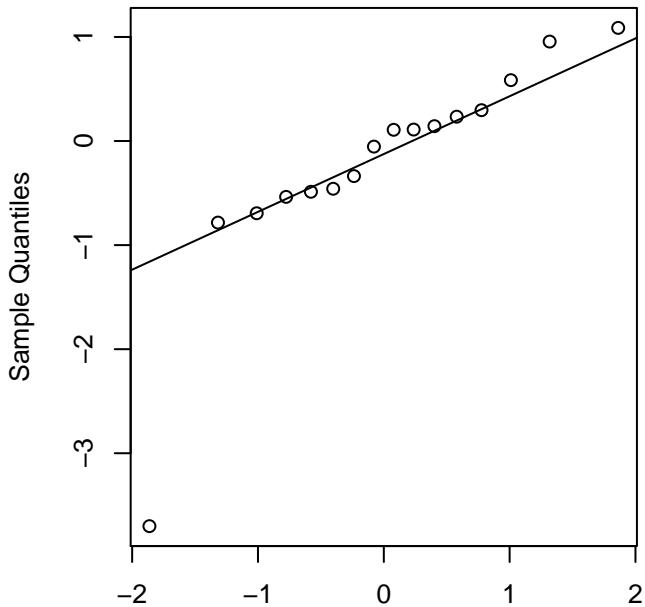


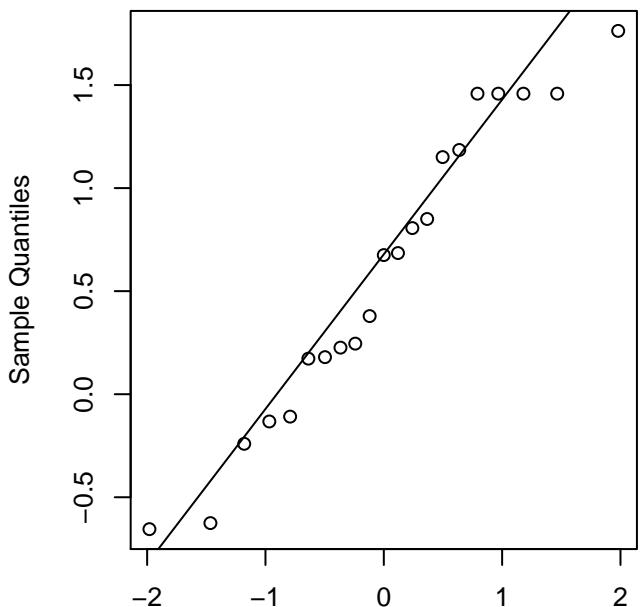
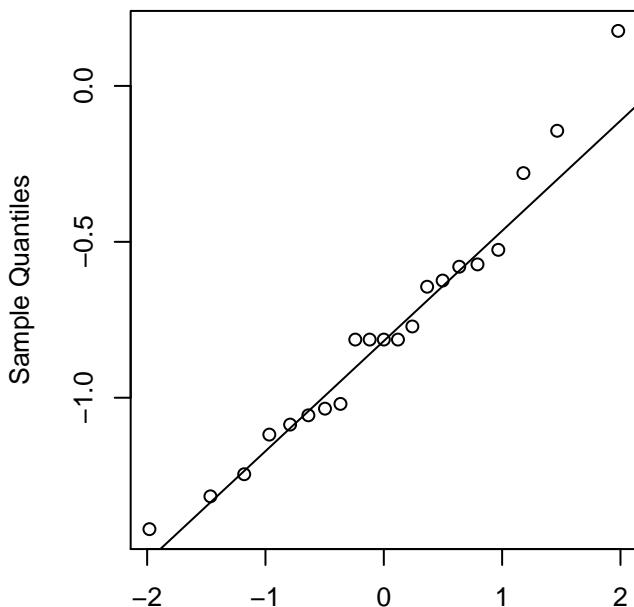
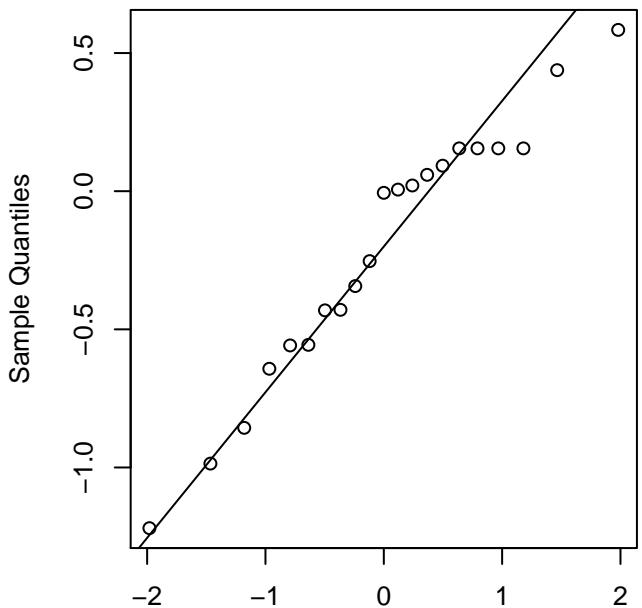
State X.SJI

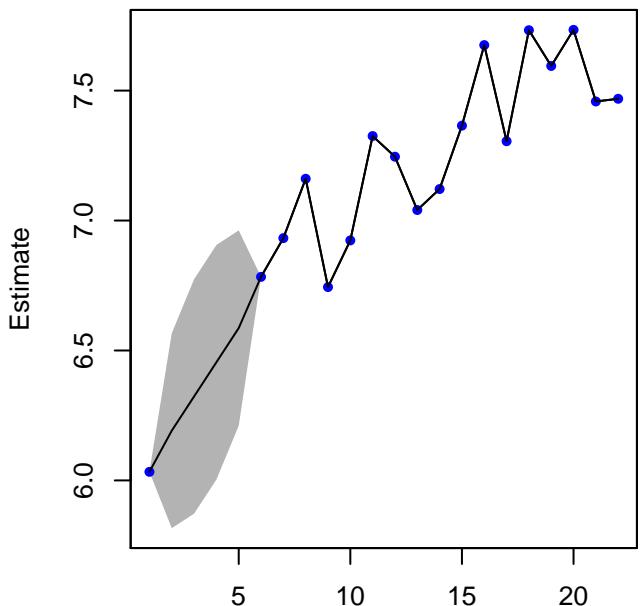
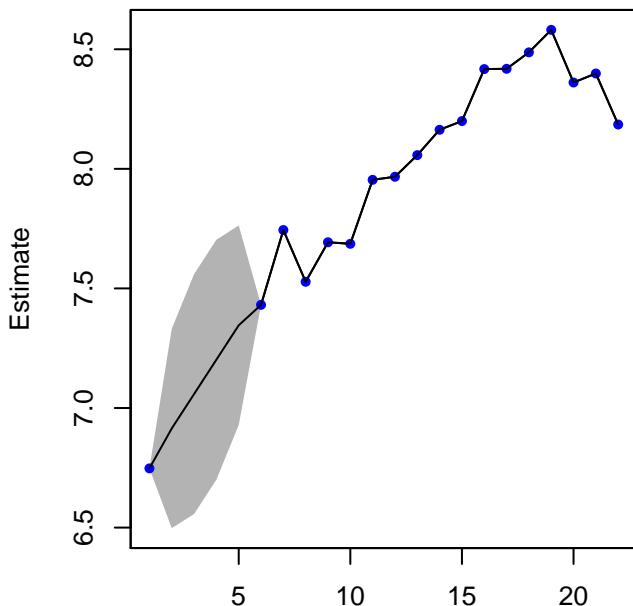
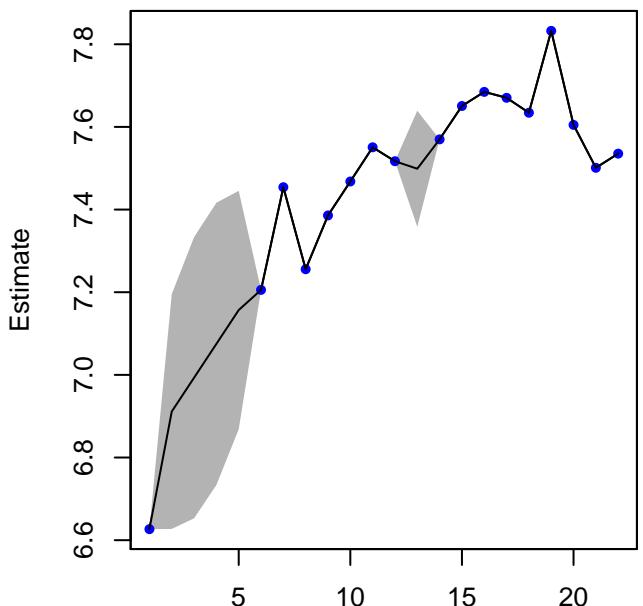


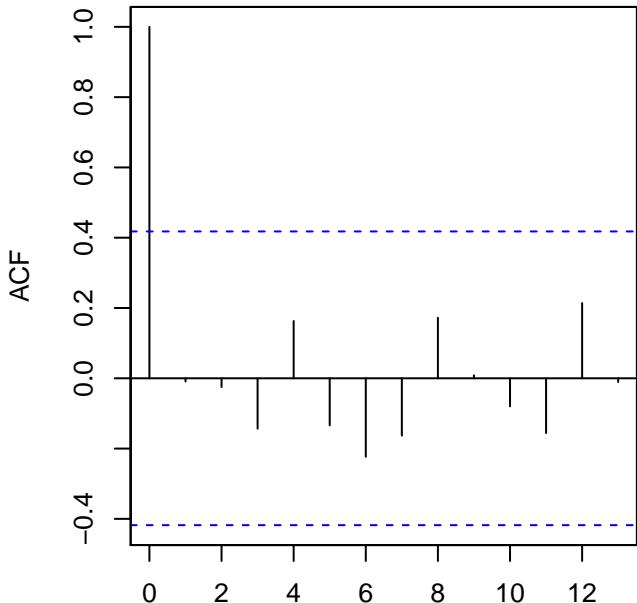
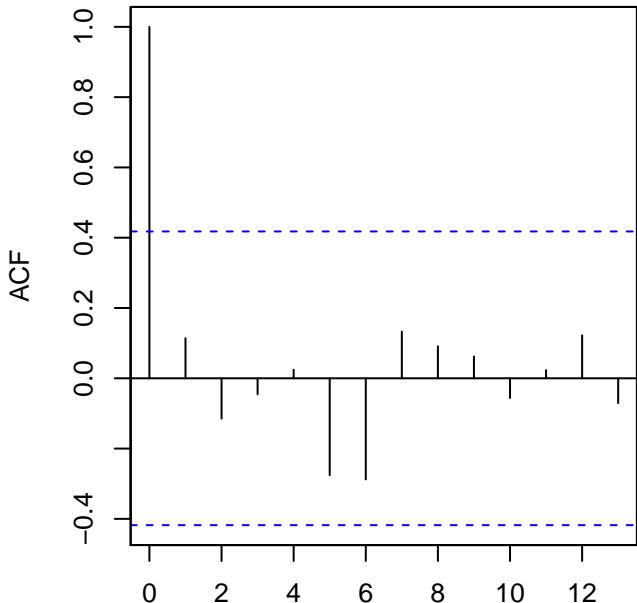
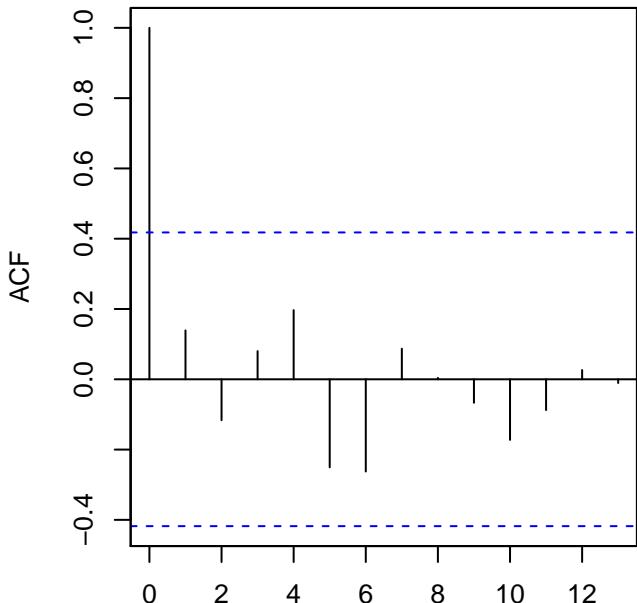
State X.EBays



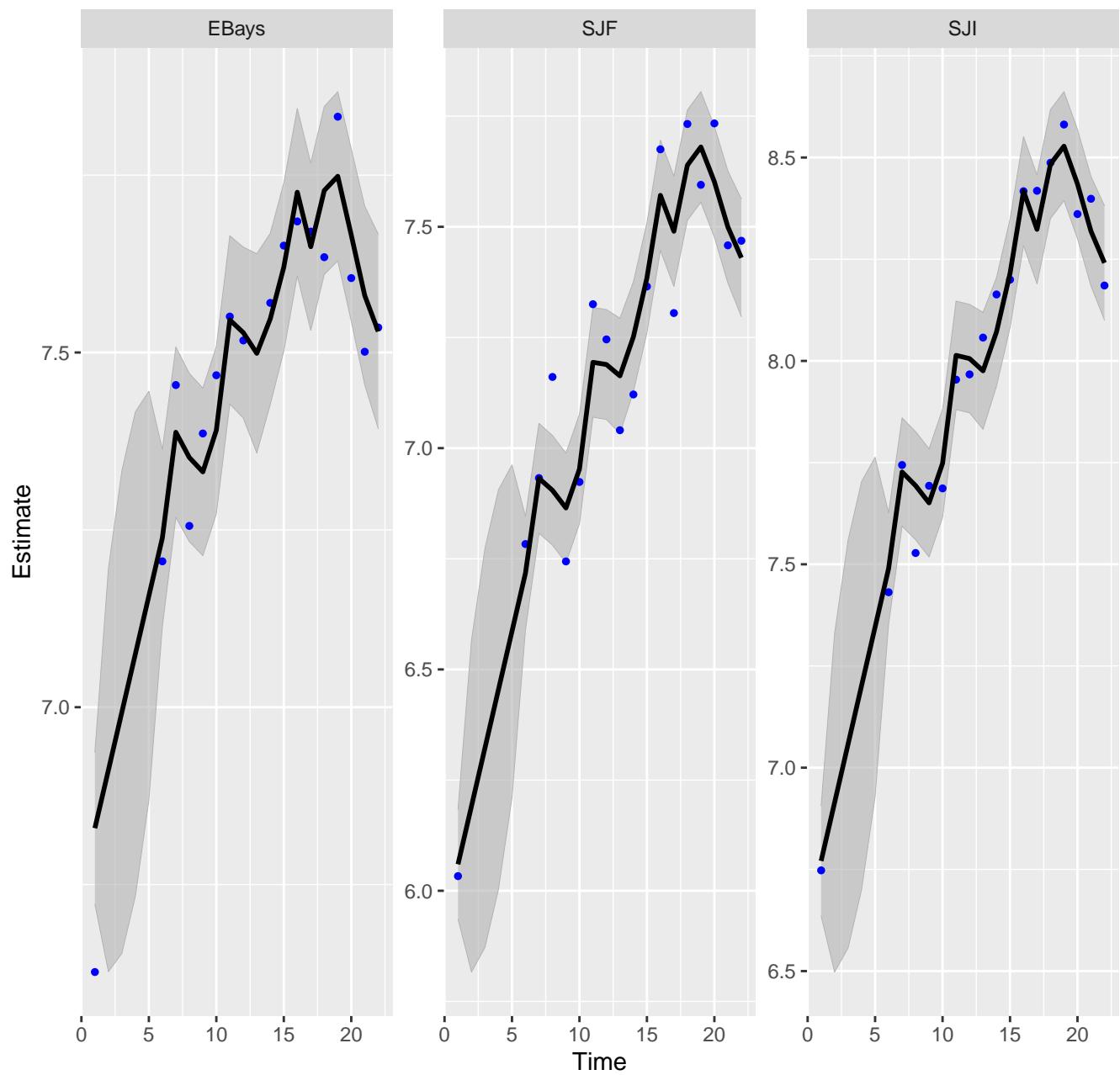
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

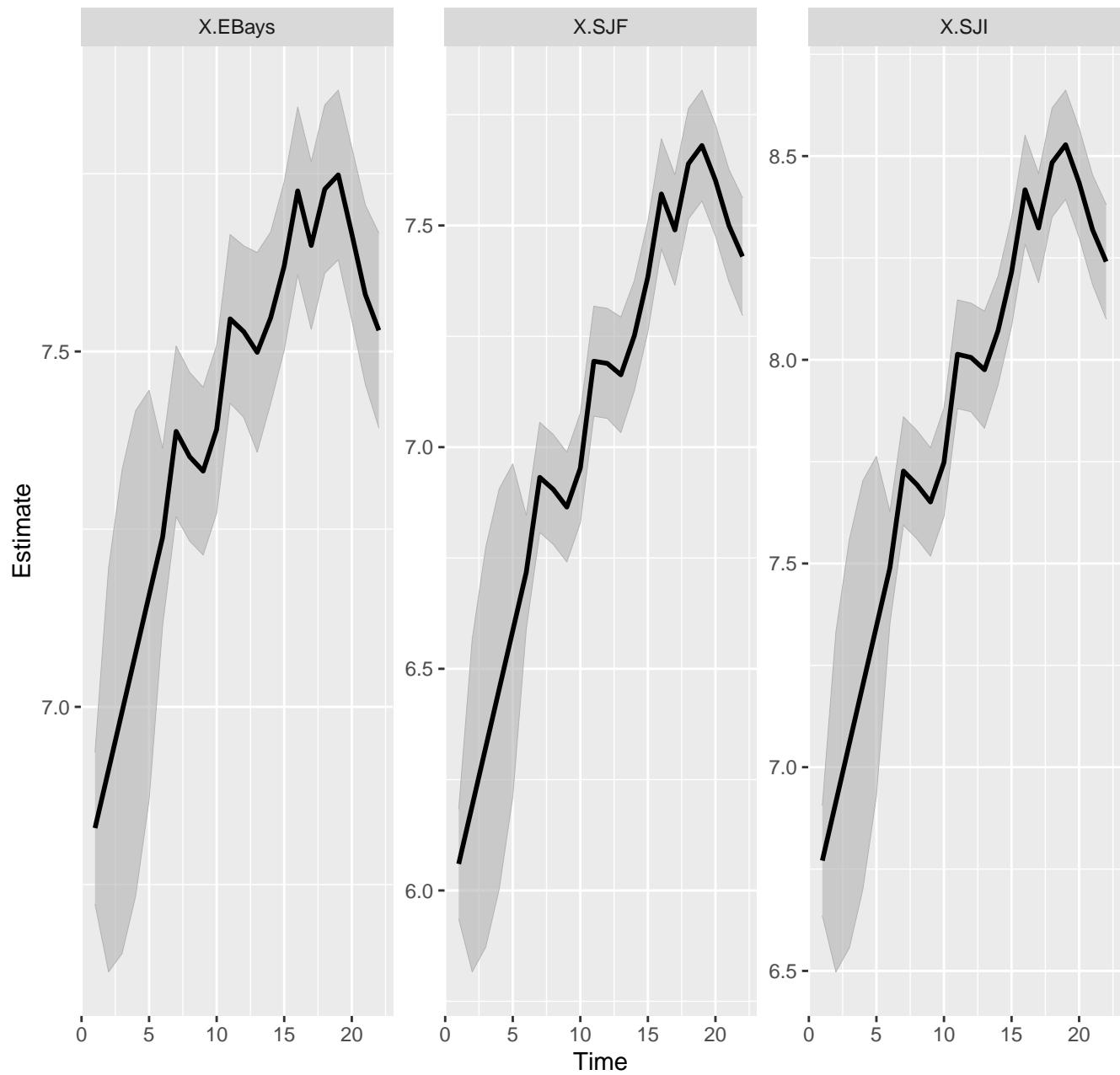
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

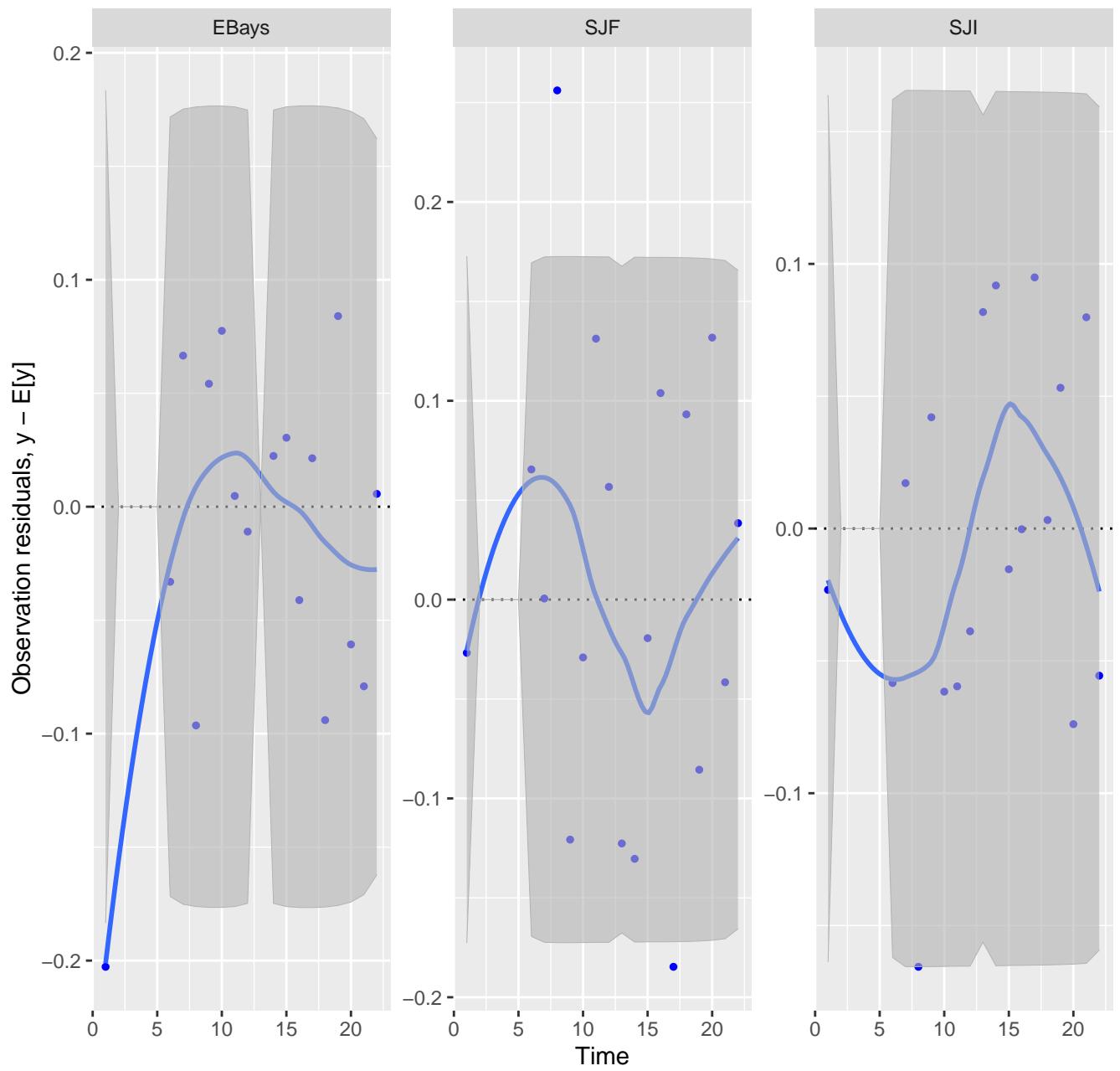
Model fitted Y + CI



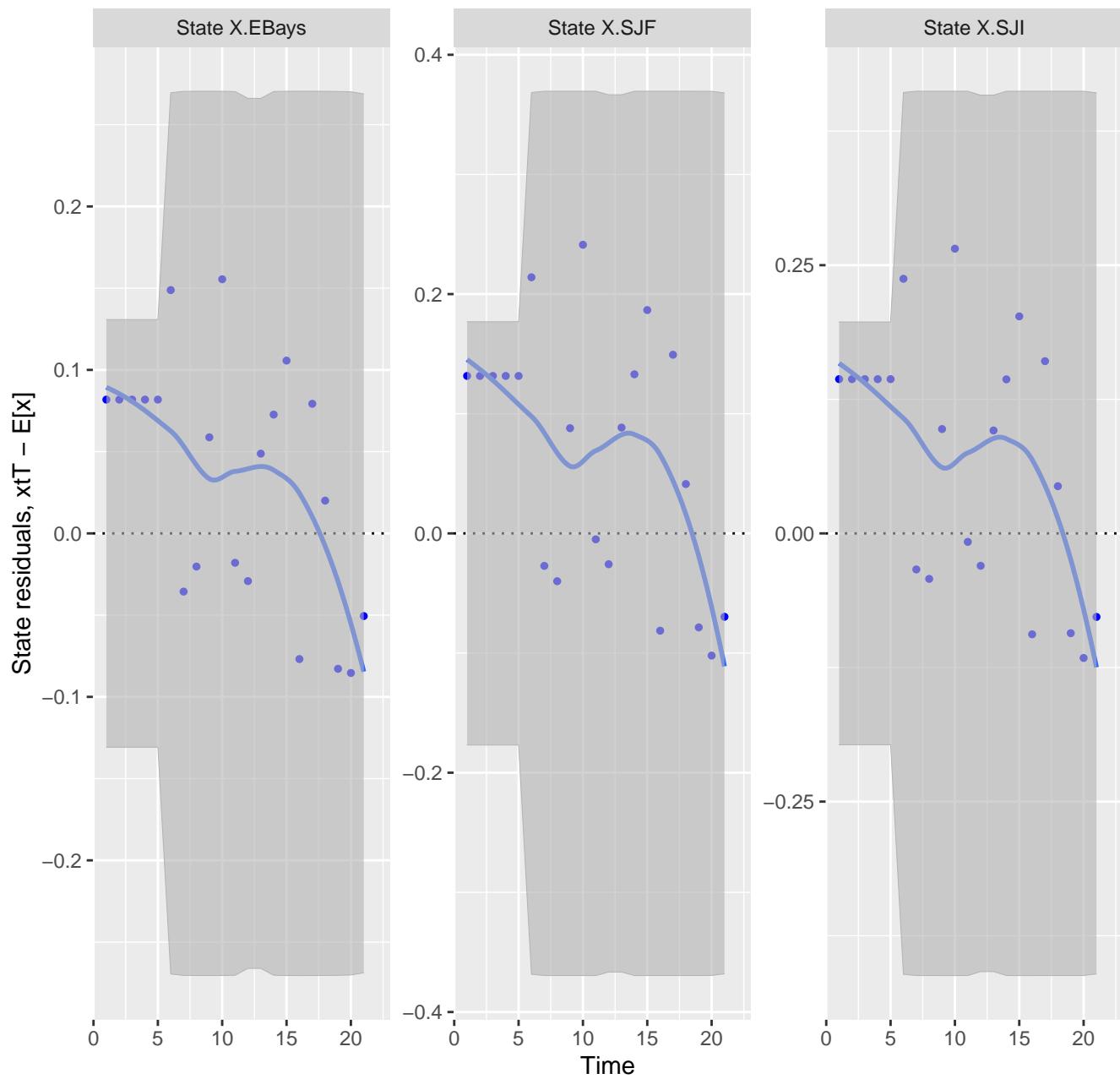
States



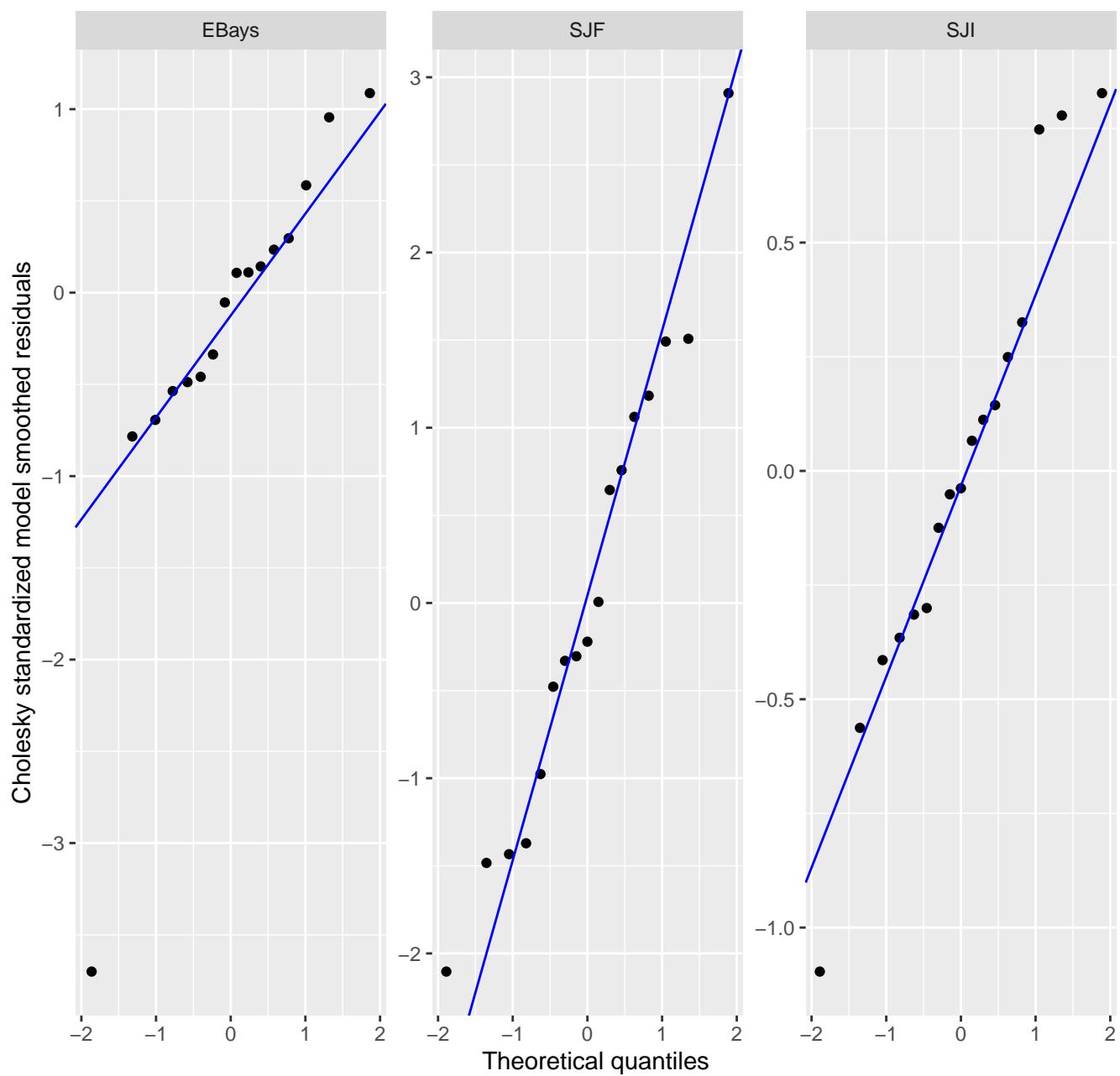
Model residuals



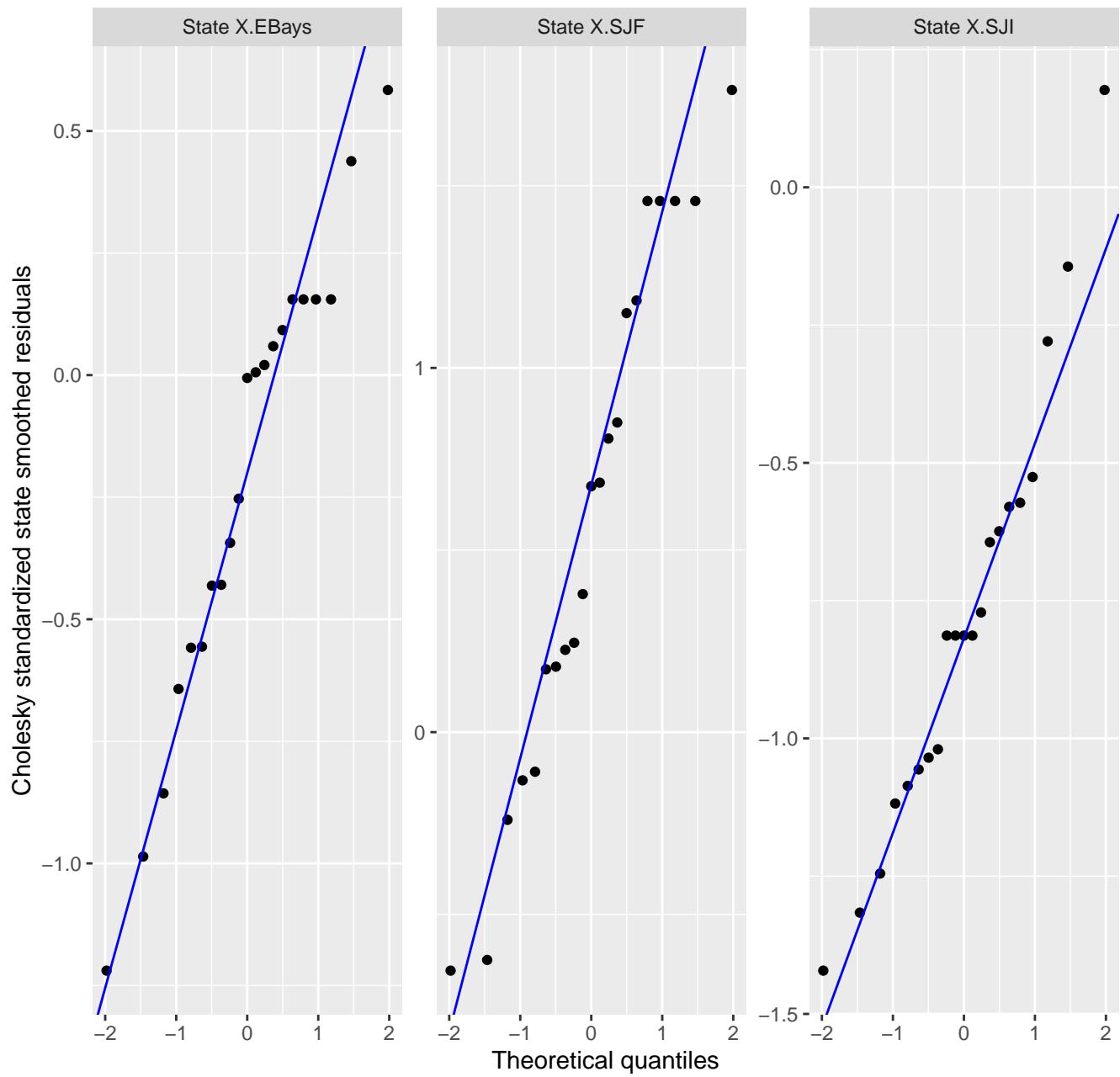
State residuals



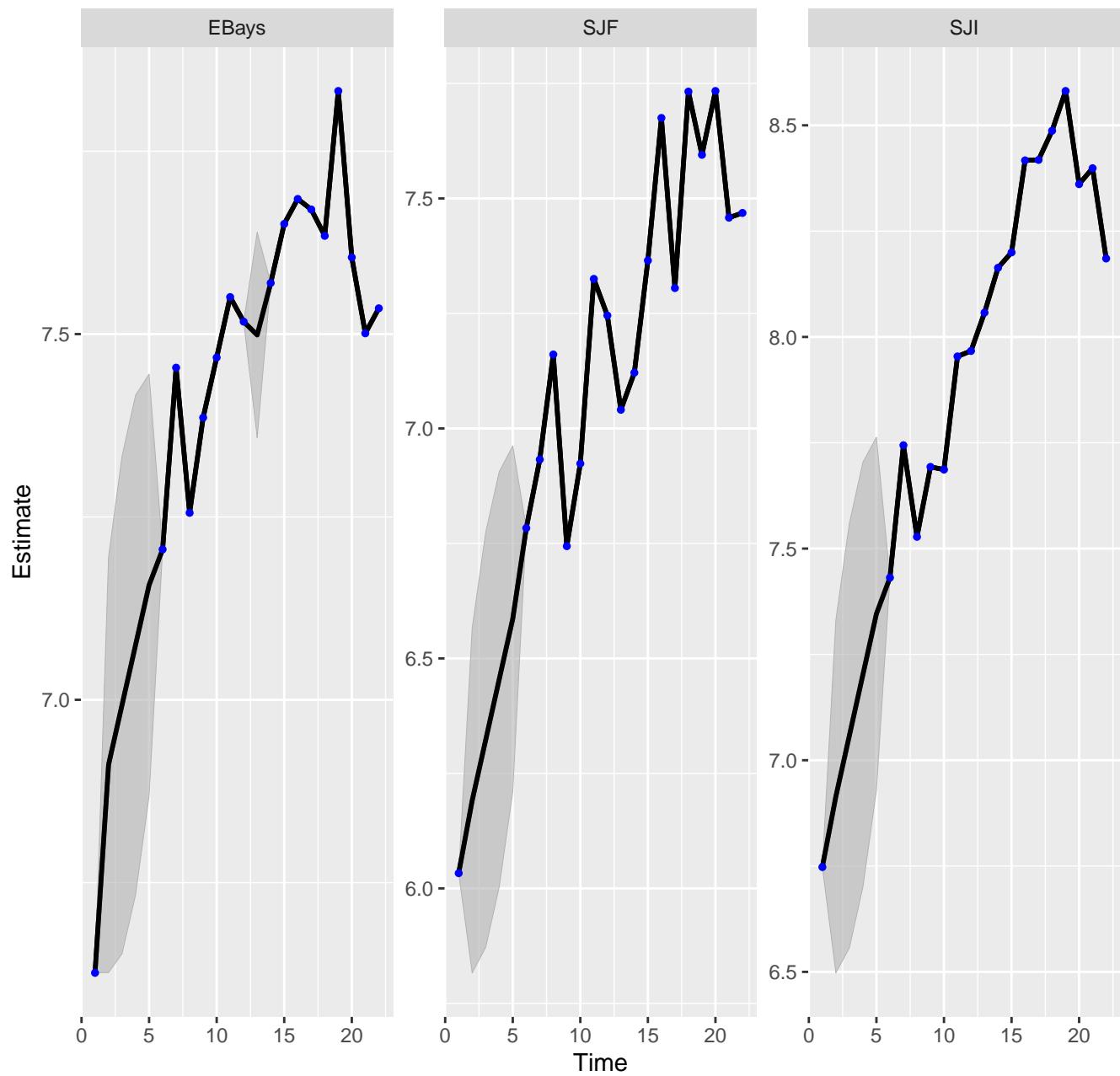
Model residuals normality test



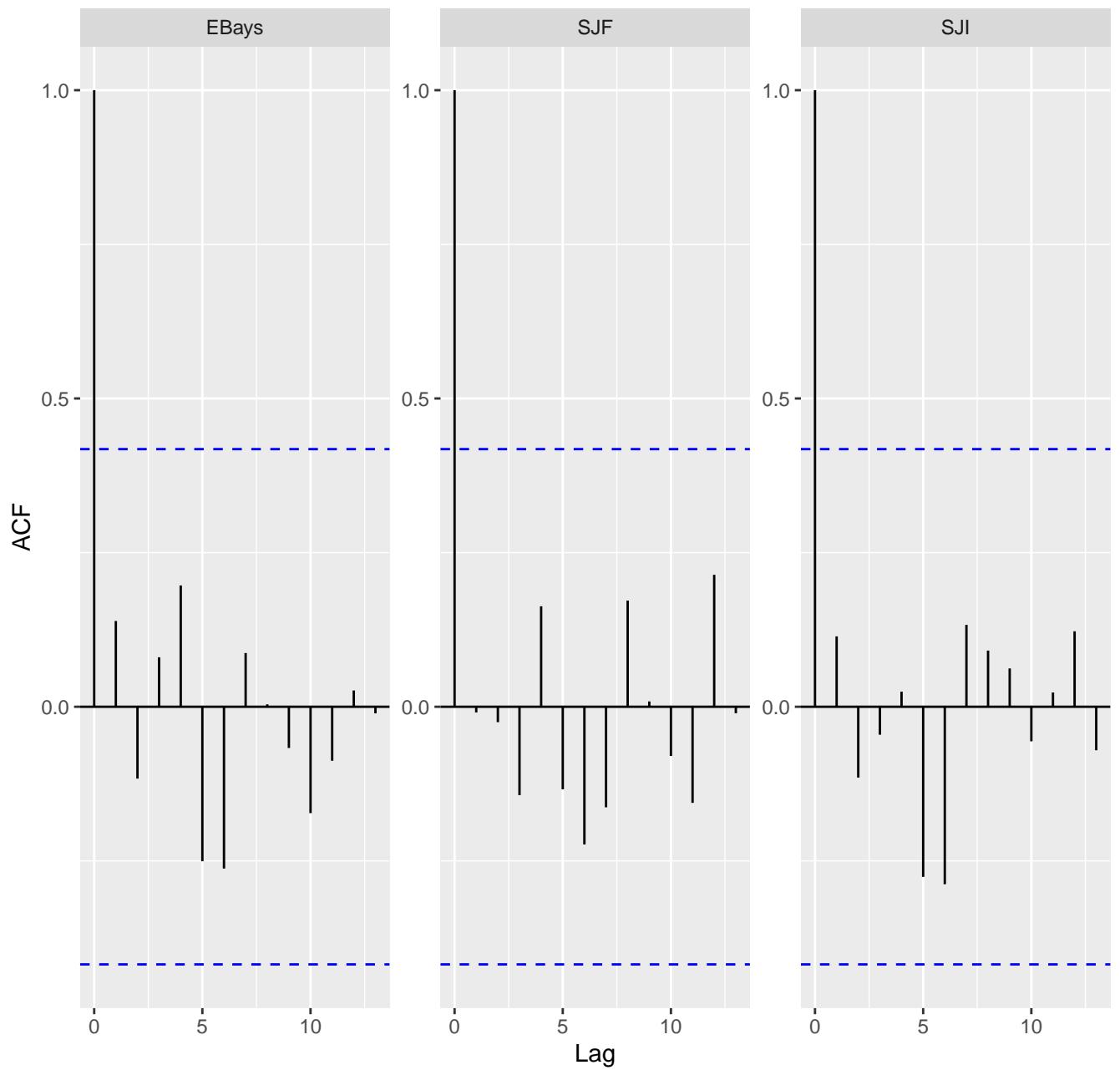
State residuals normality test

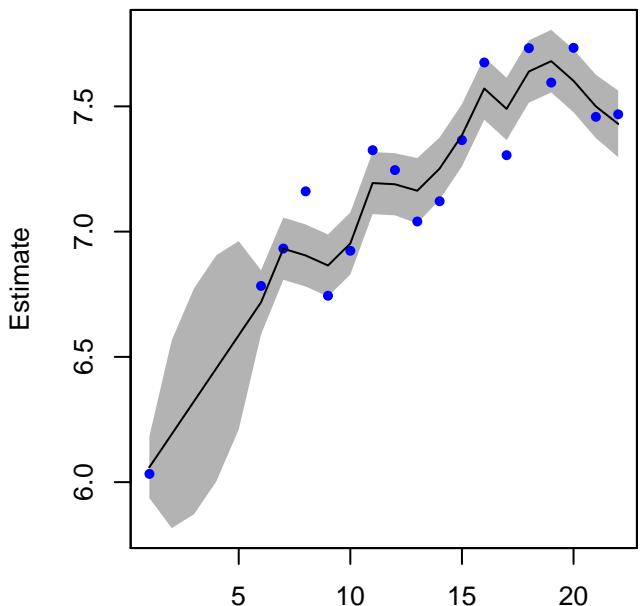
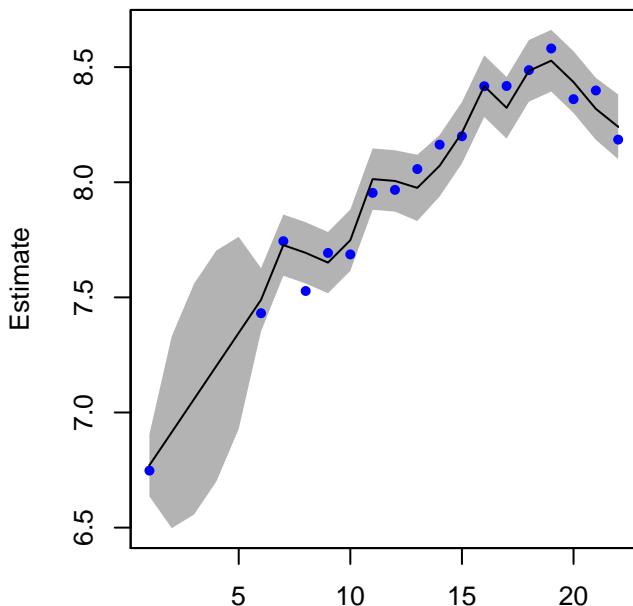
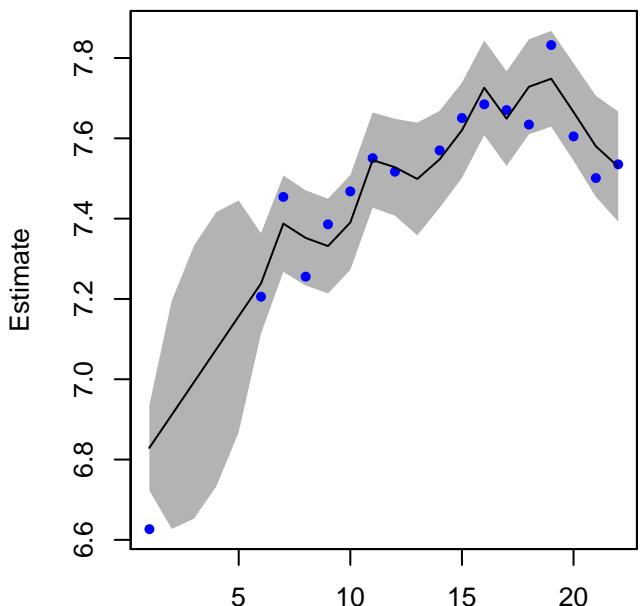


Expected value of Y conditioned on data

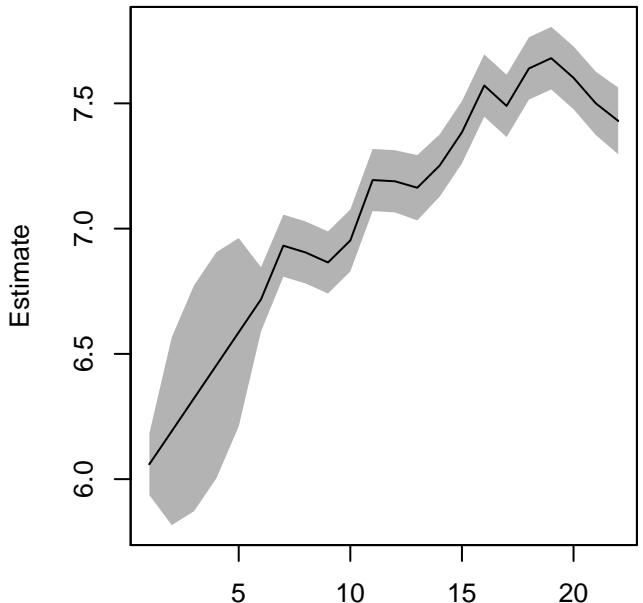


Model innovations residuals ACF

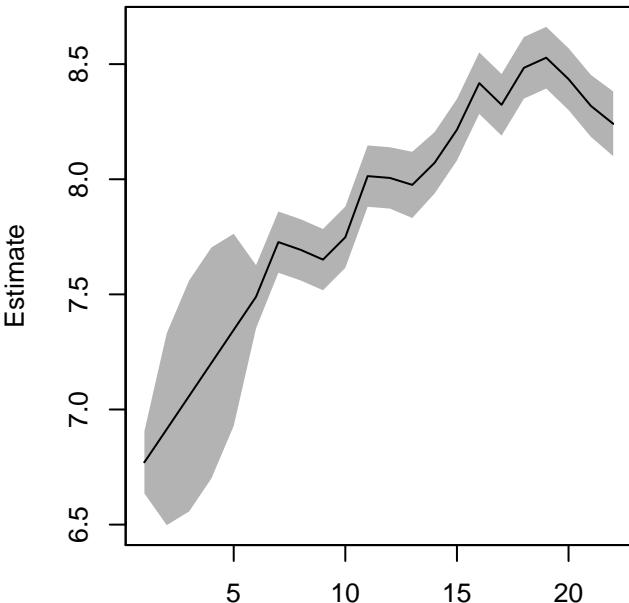


SJF + CI**SJI + CI****EBays + CI**

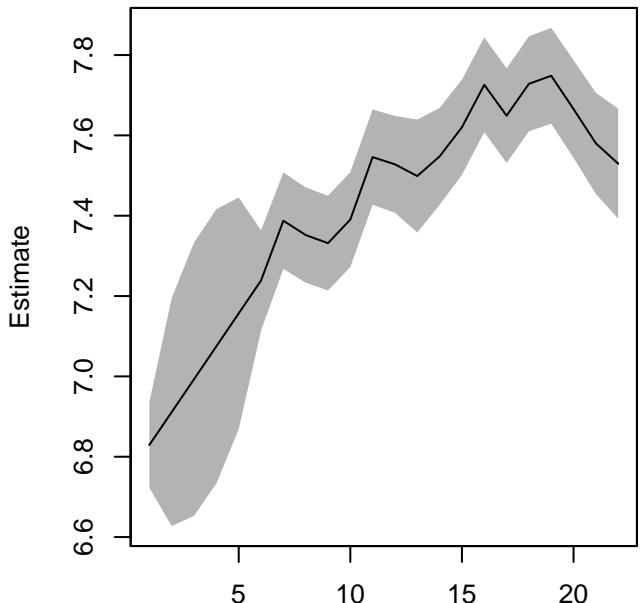
State X.SJF

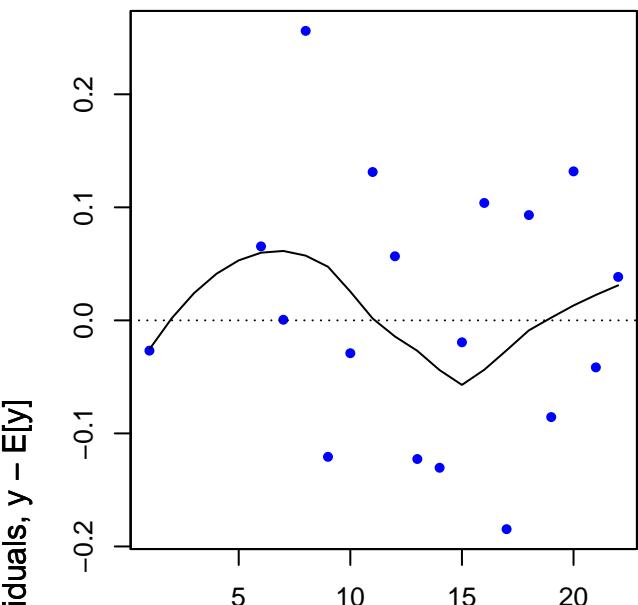
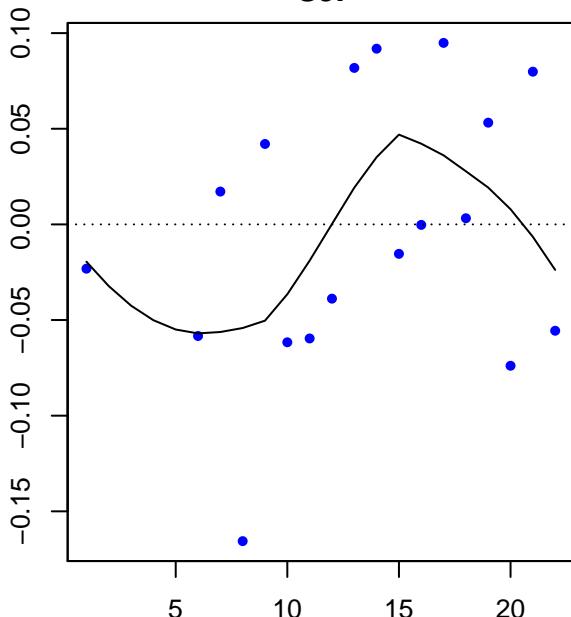
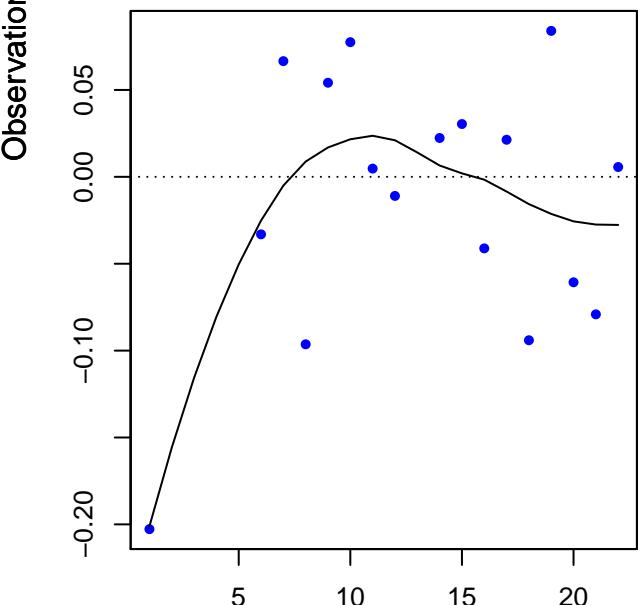


State X.SJI

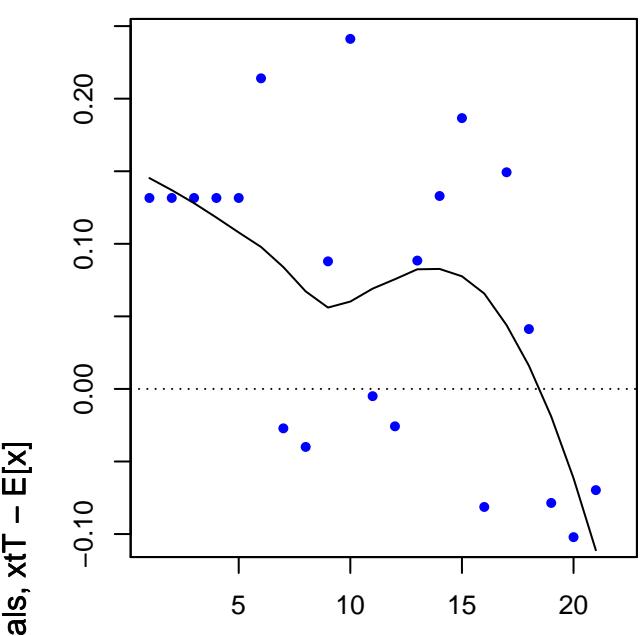


State X.EBays

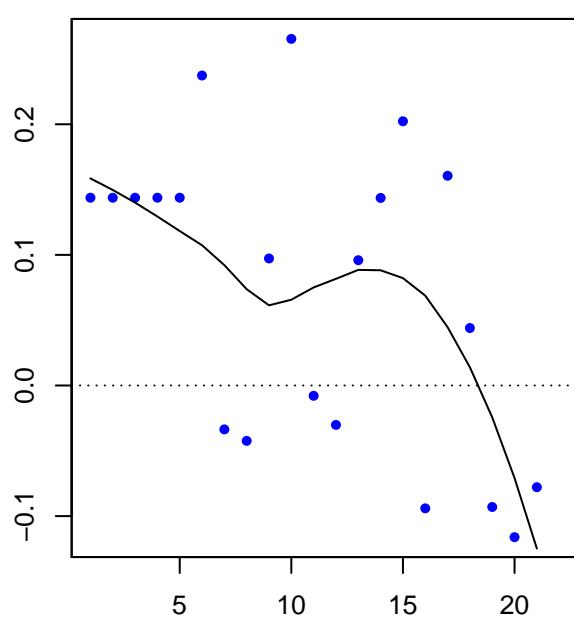


SJF**SJI****EBays**

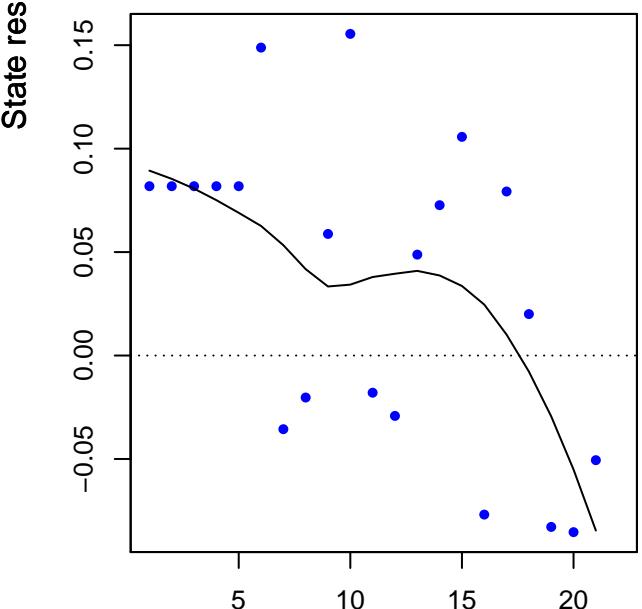
State X.SJF

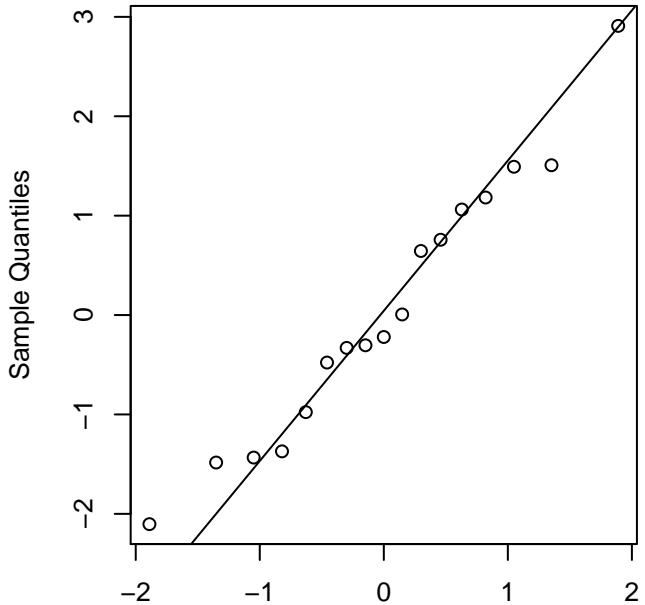
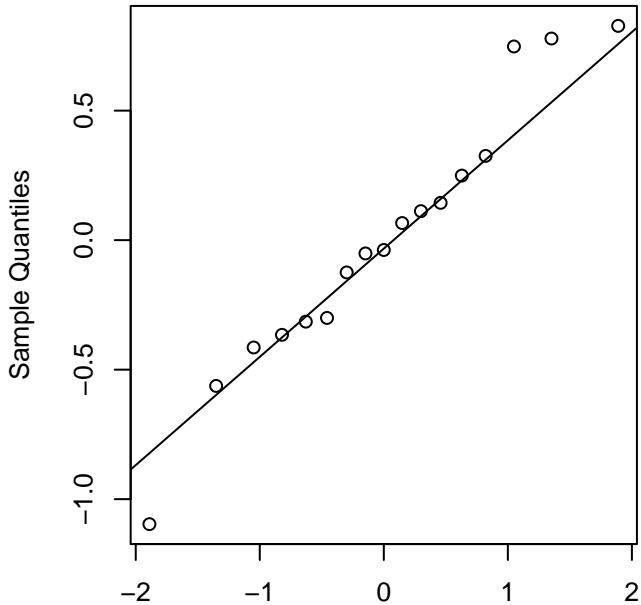
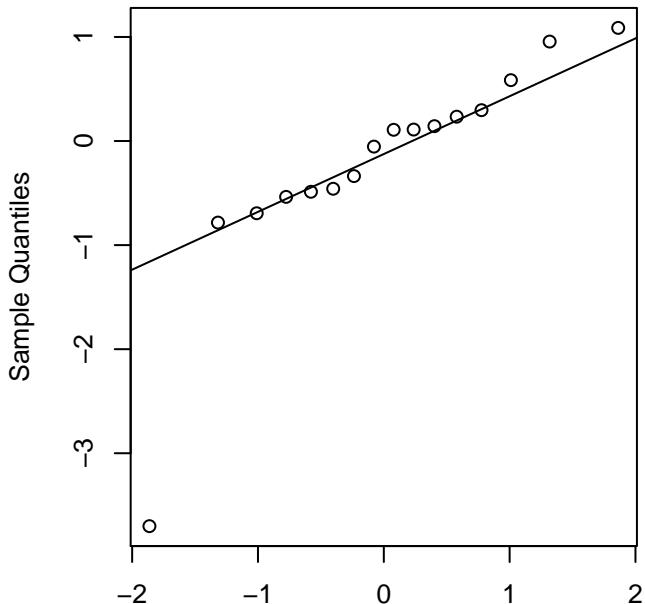


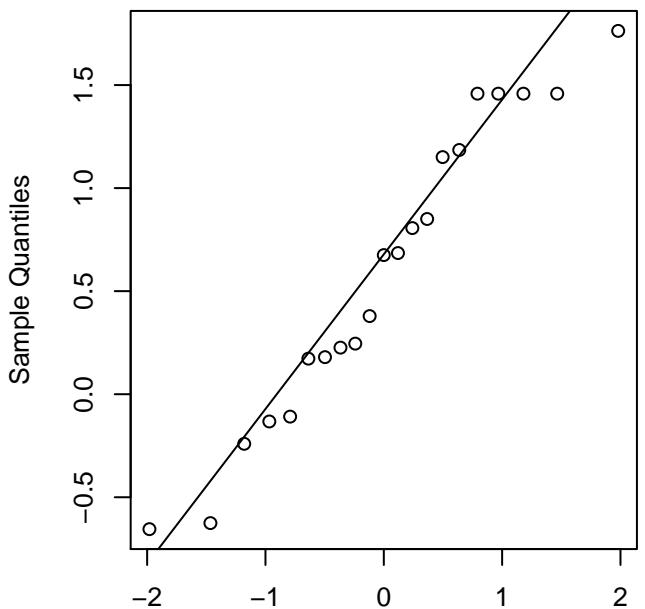
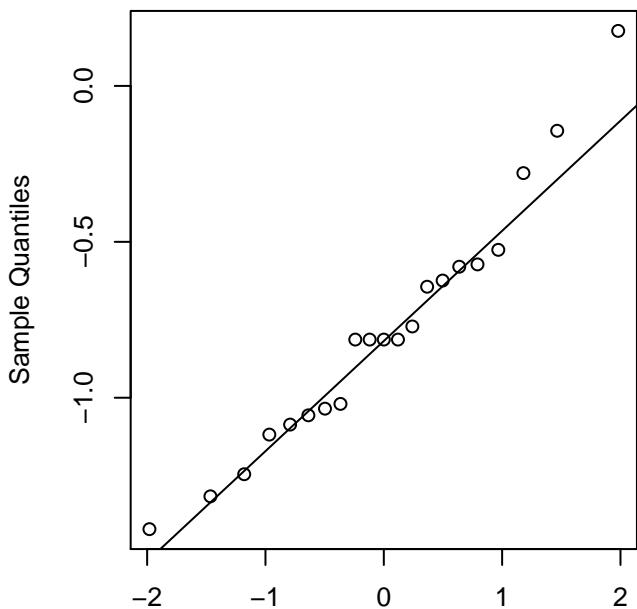
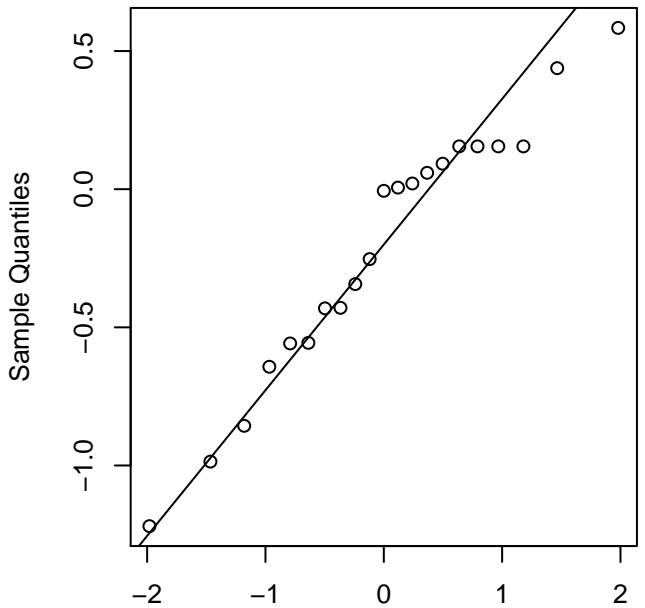
State X.SJI

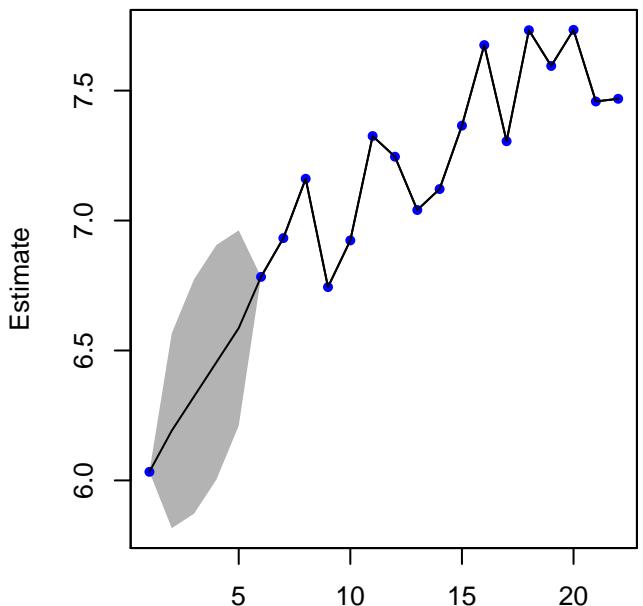
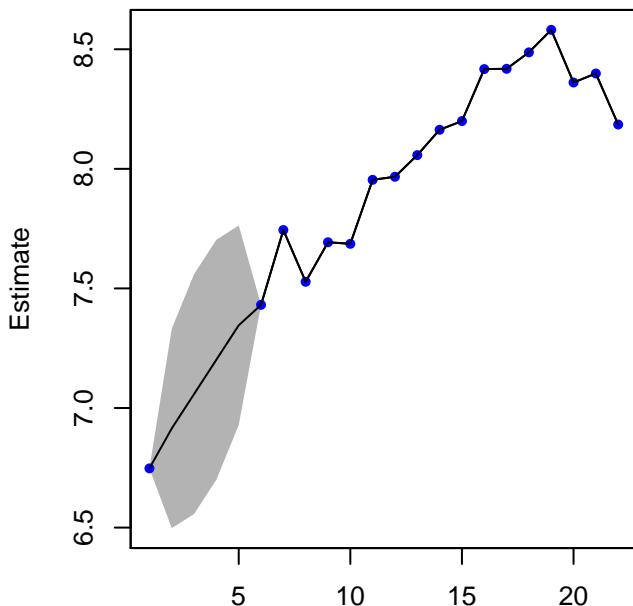
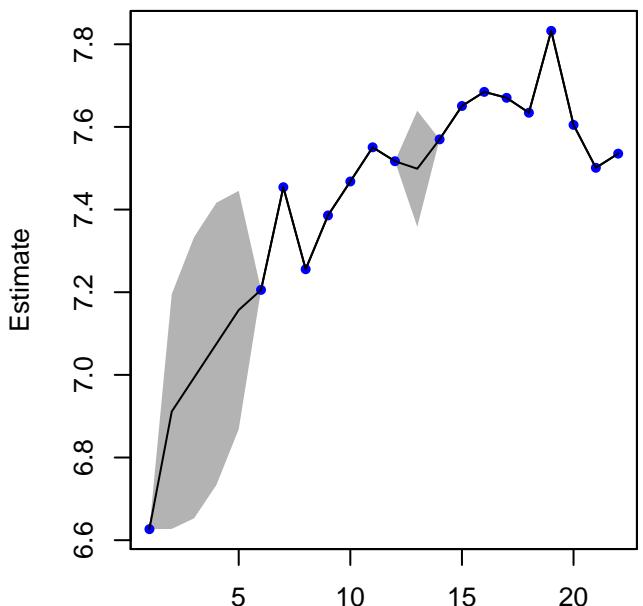


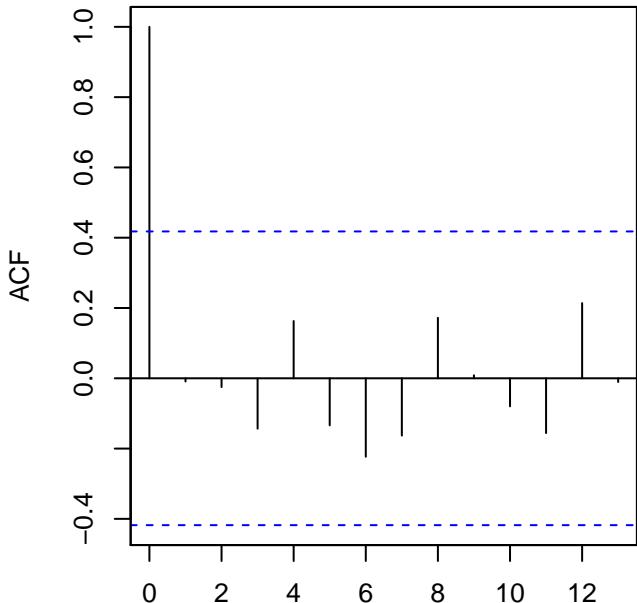
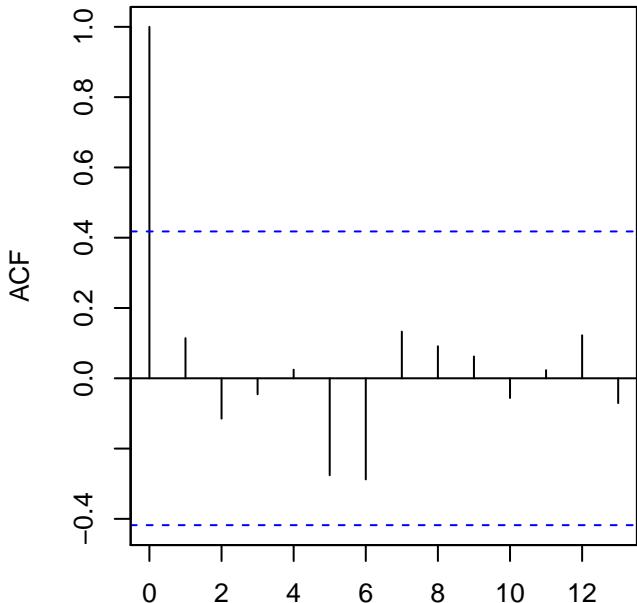
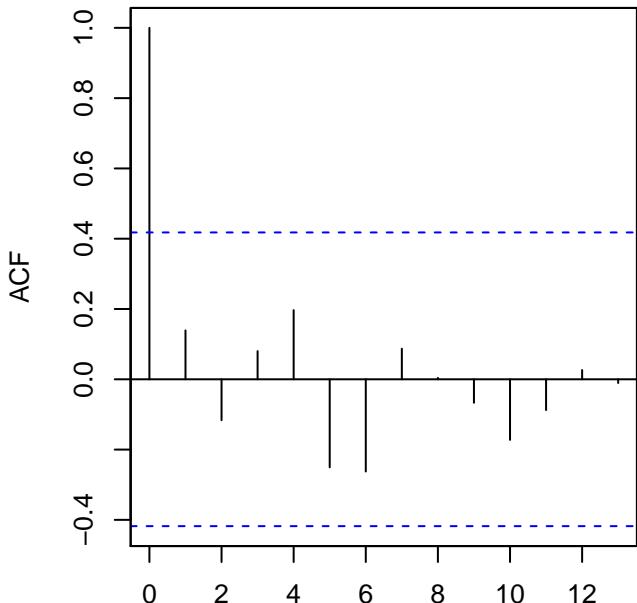
State X.EBays



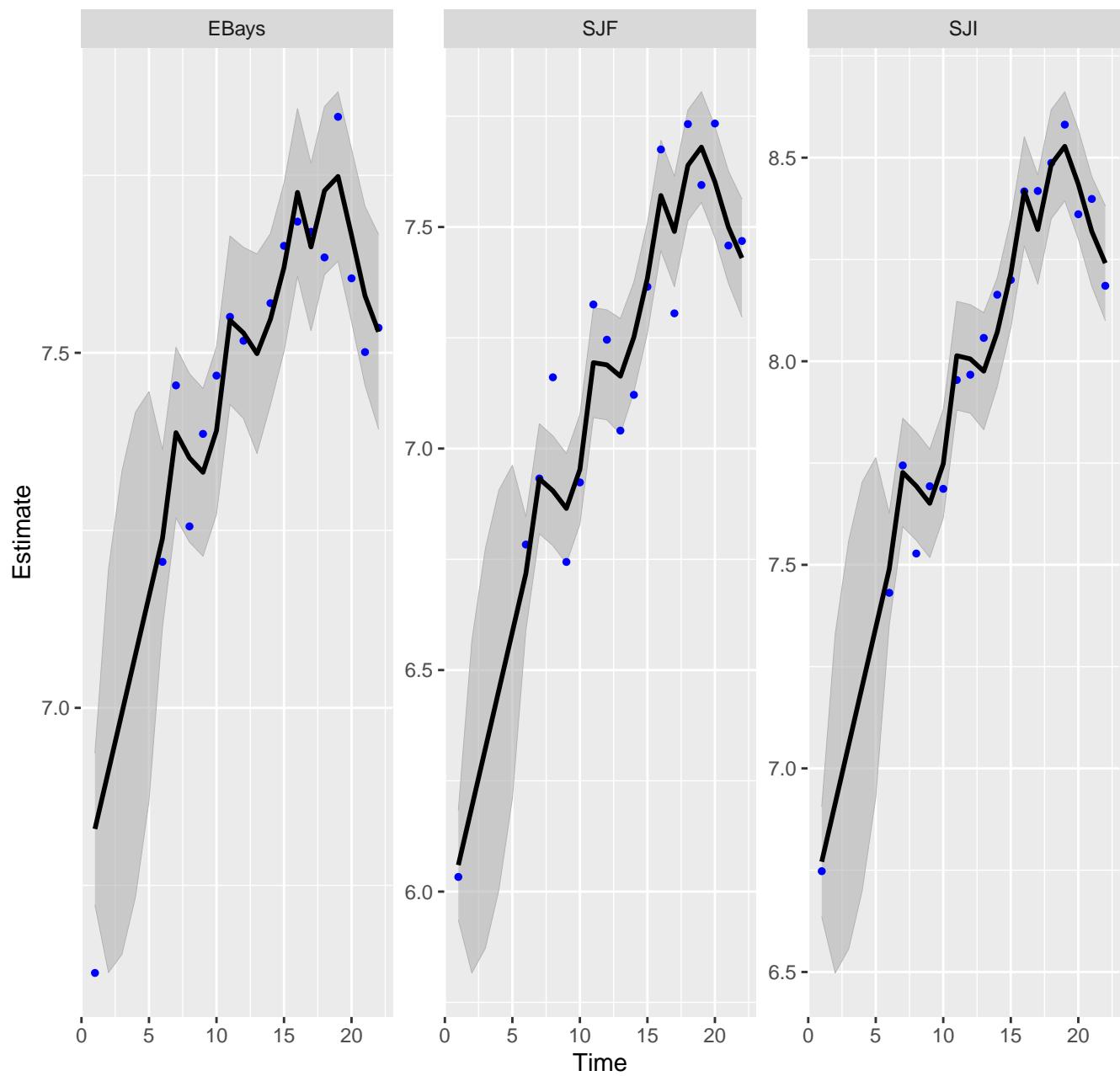
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

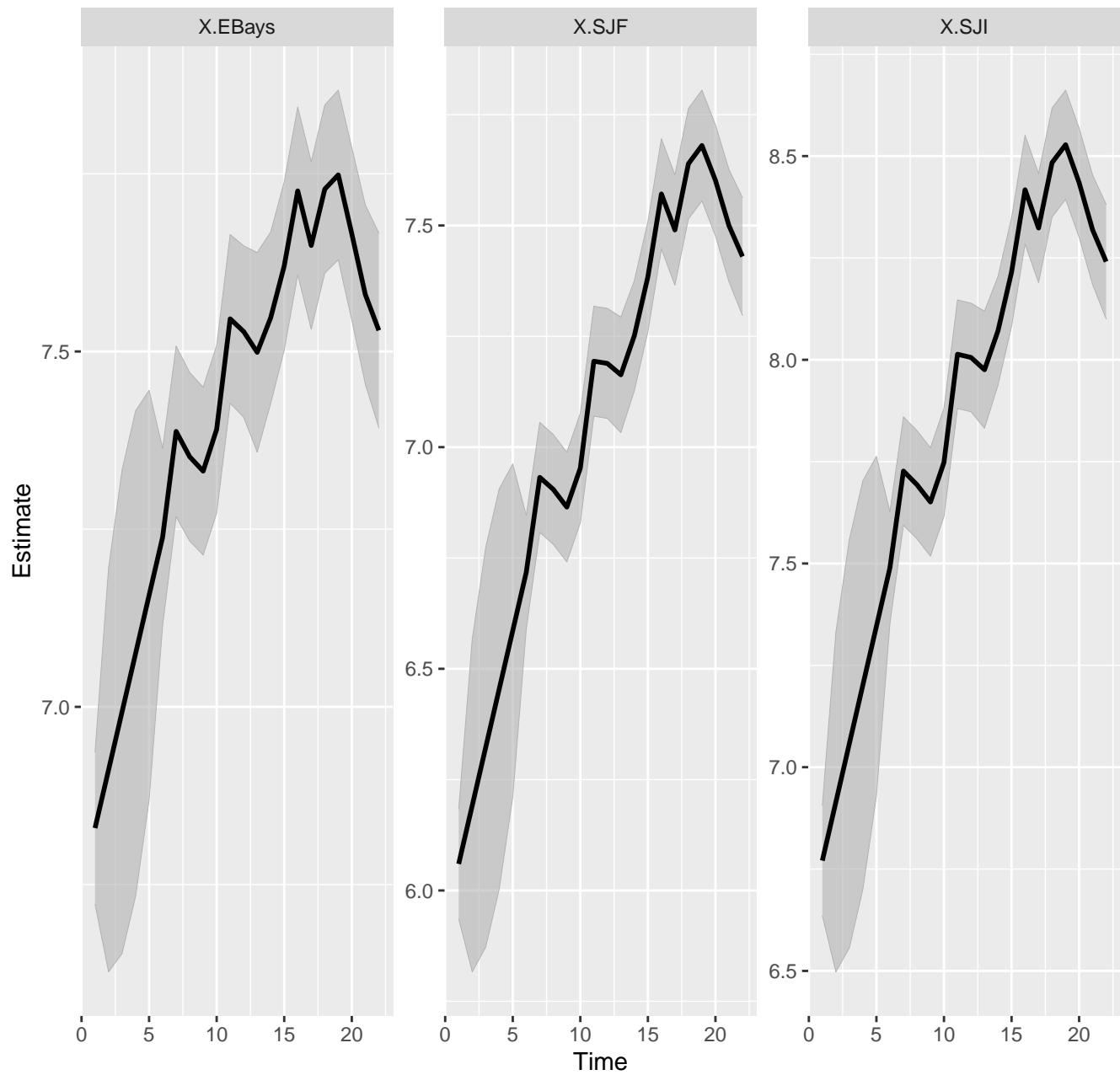
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

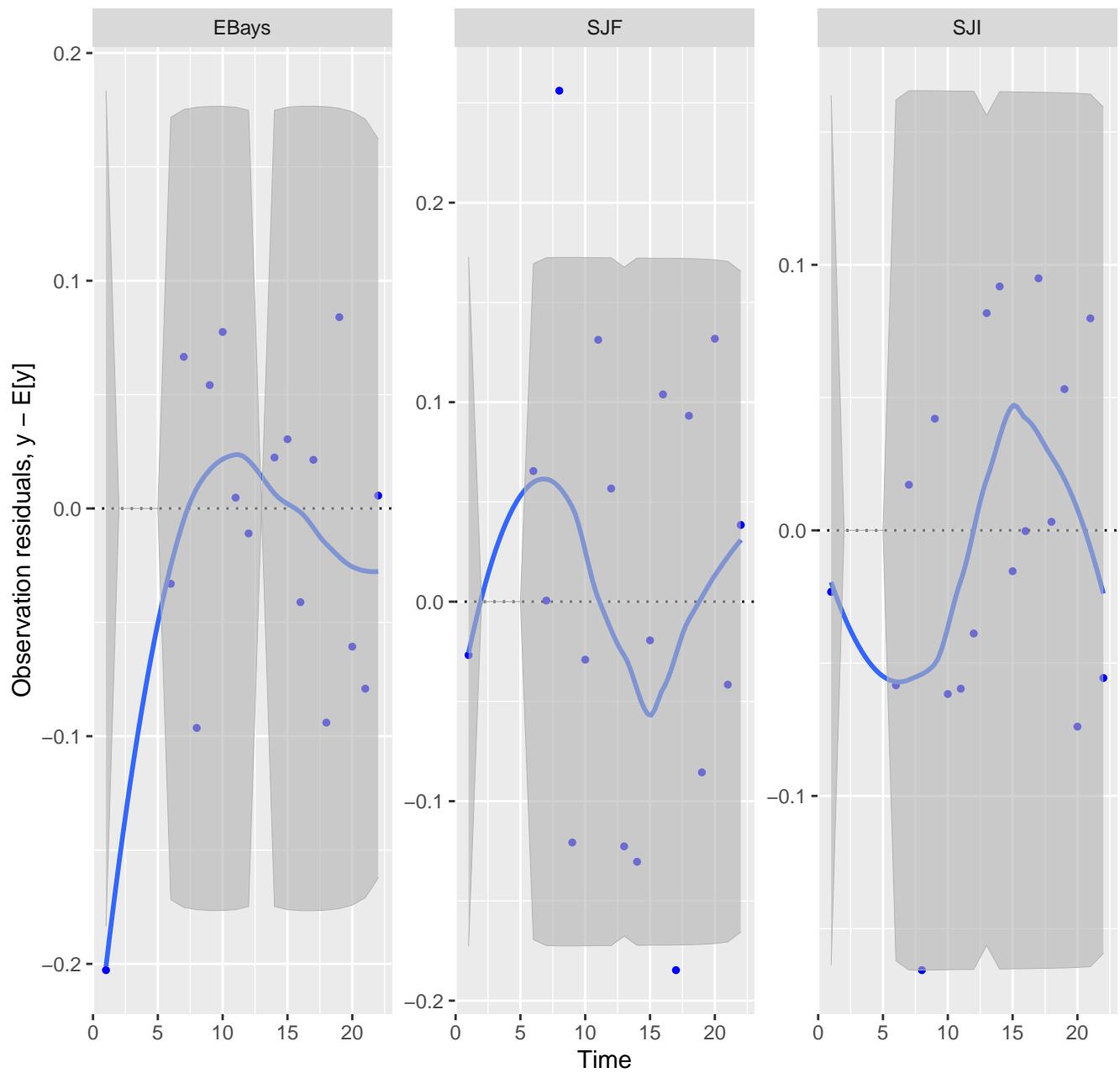
Model fitted Y + CI



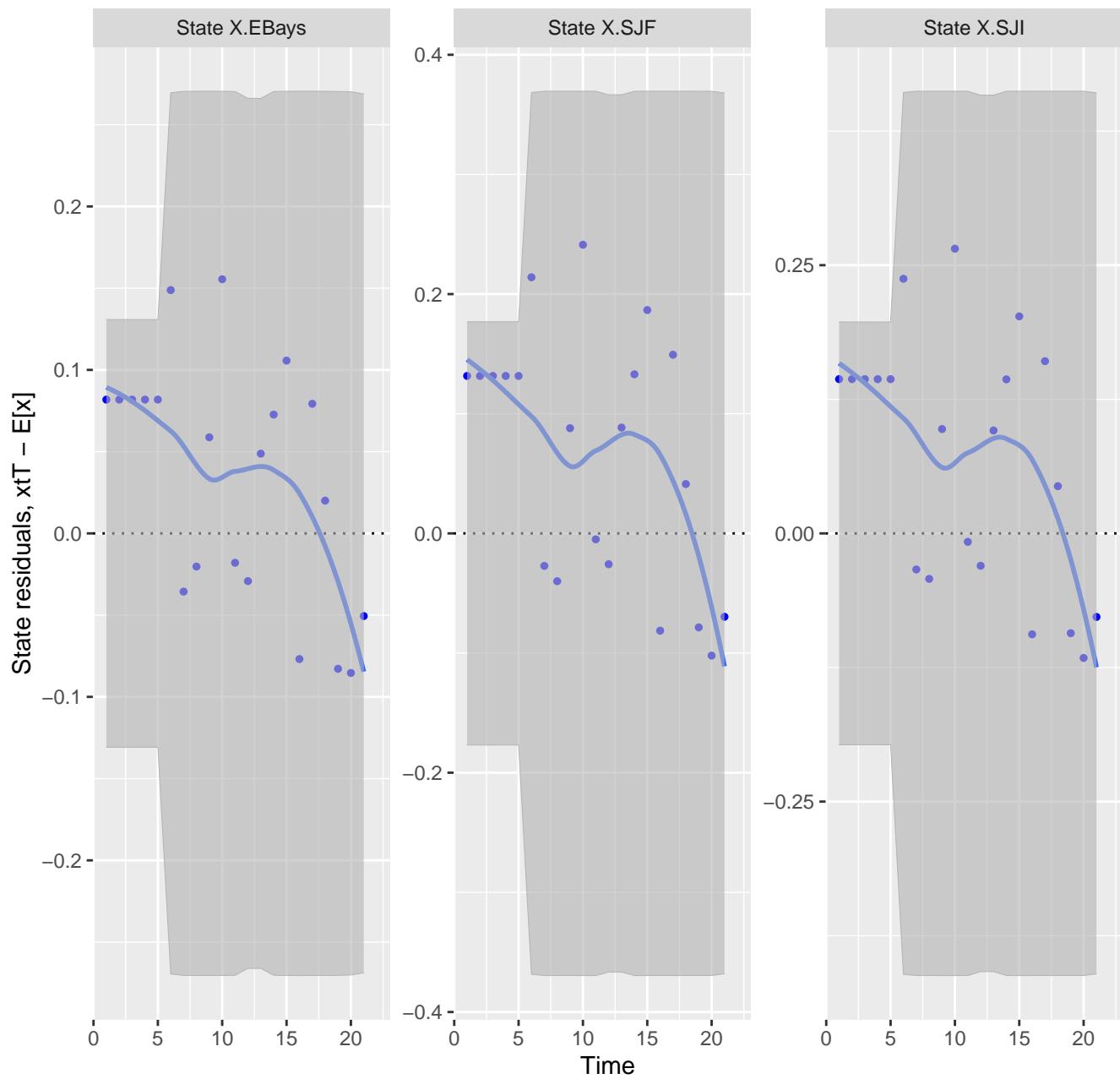
States



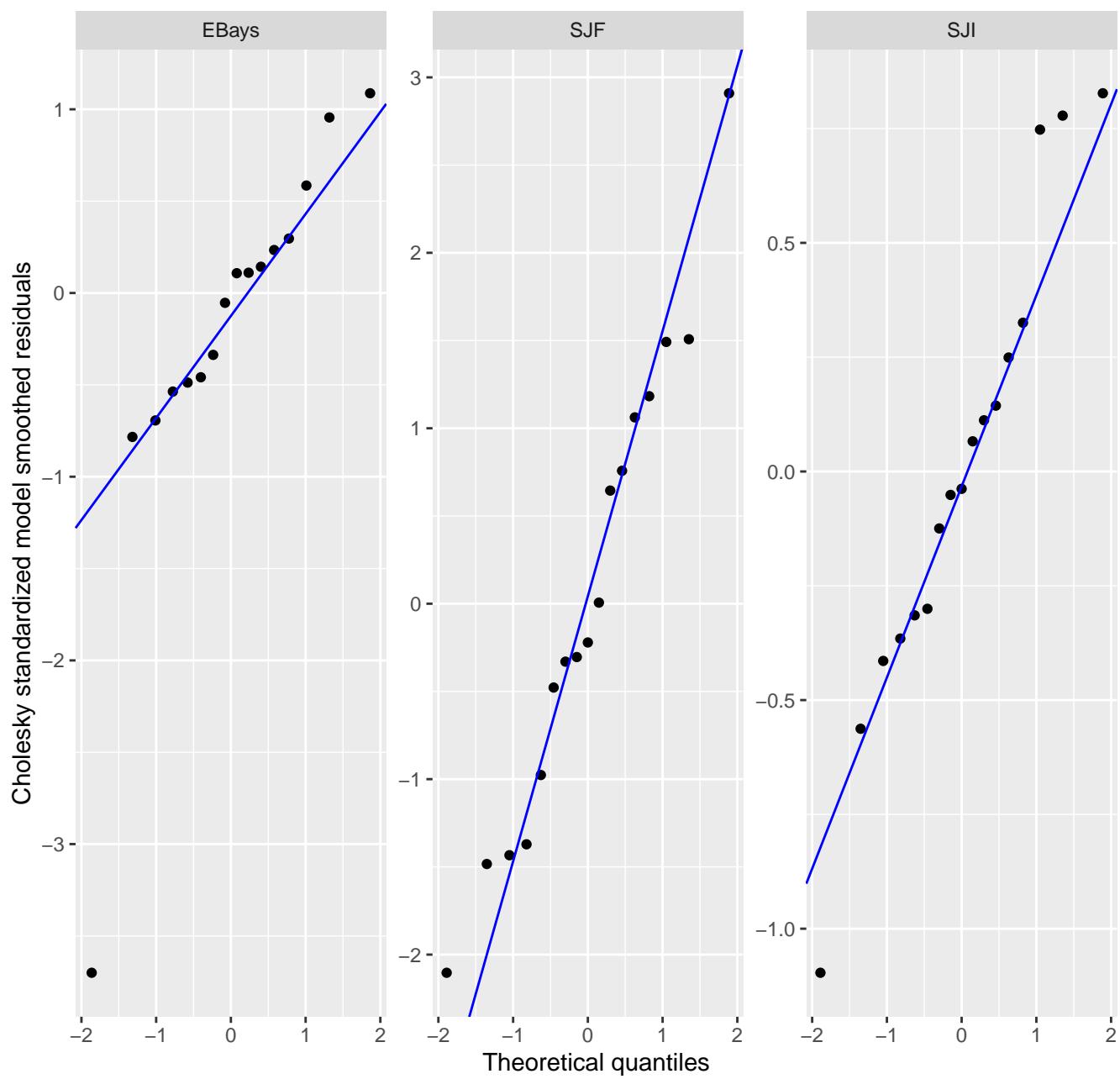
Model residuals



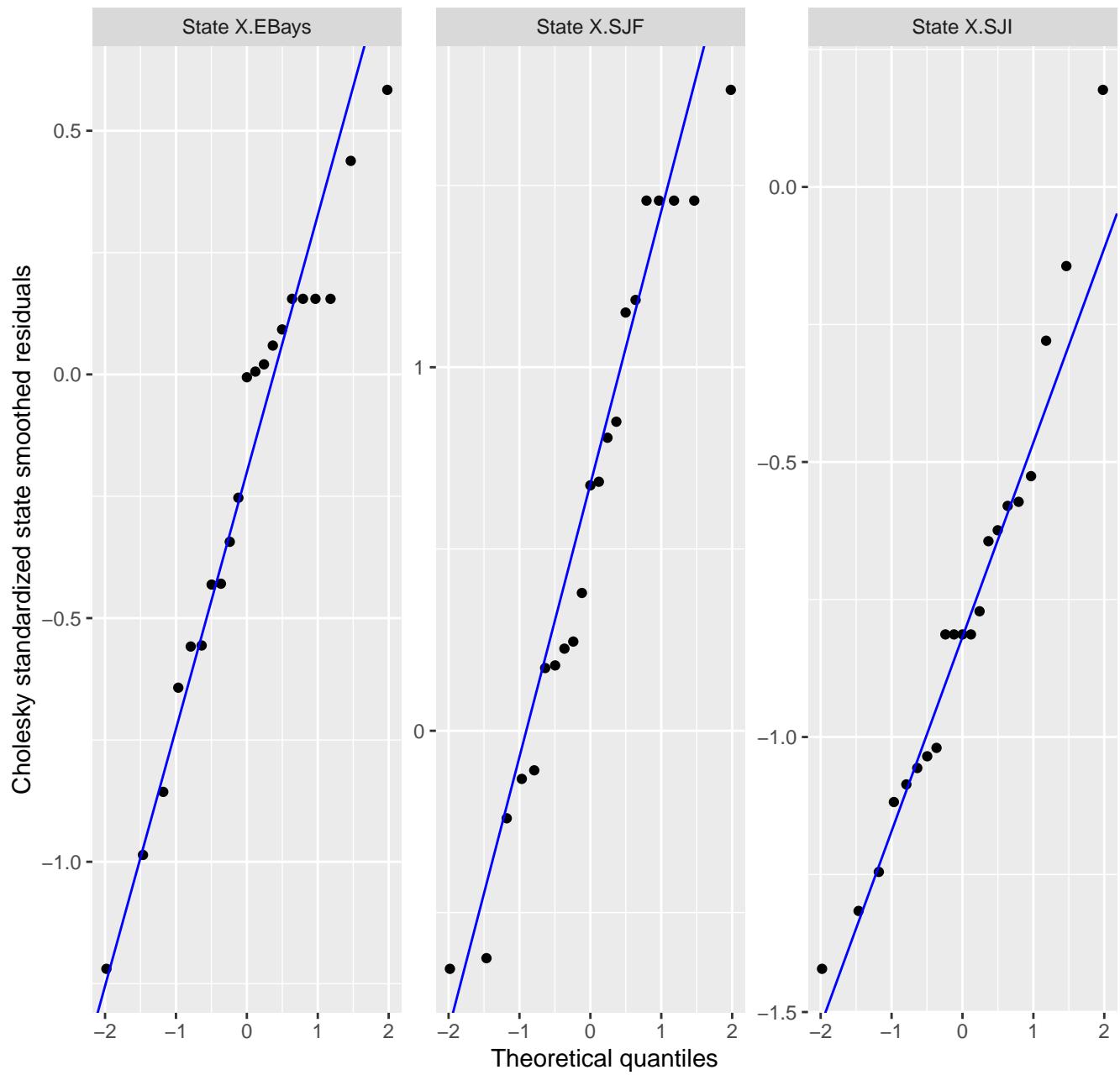
State residuals



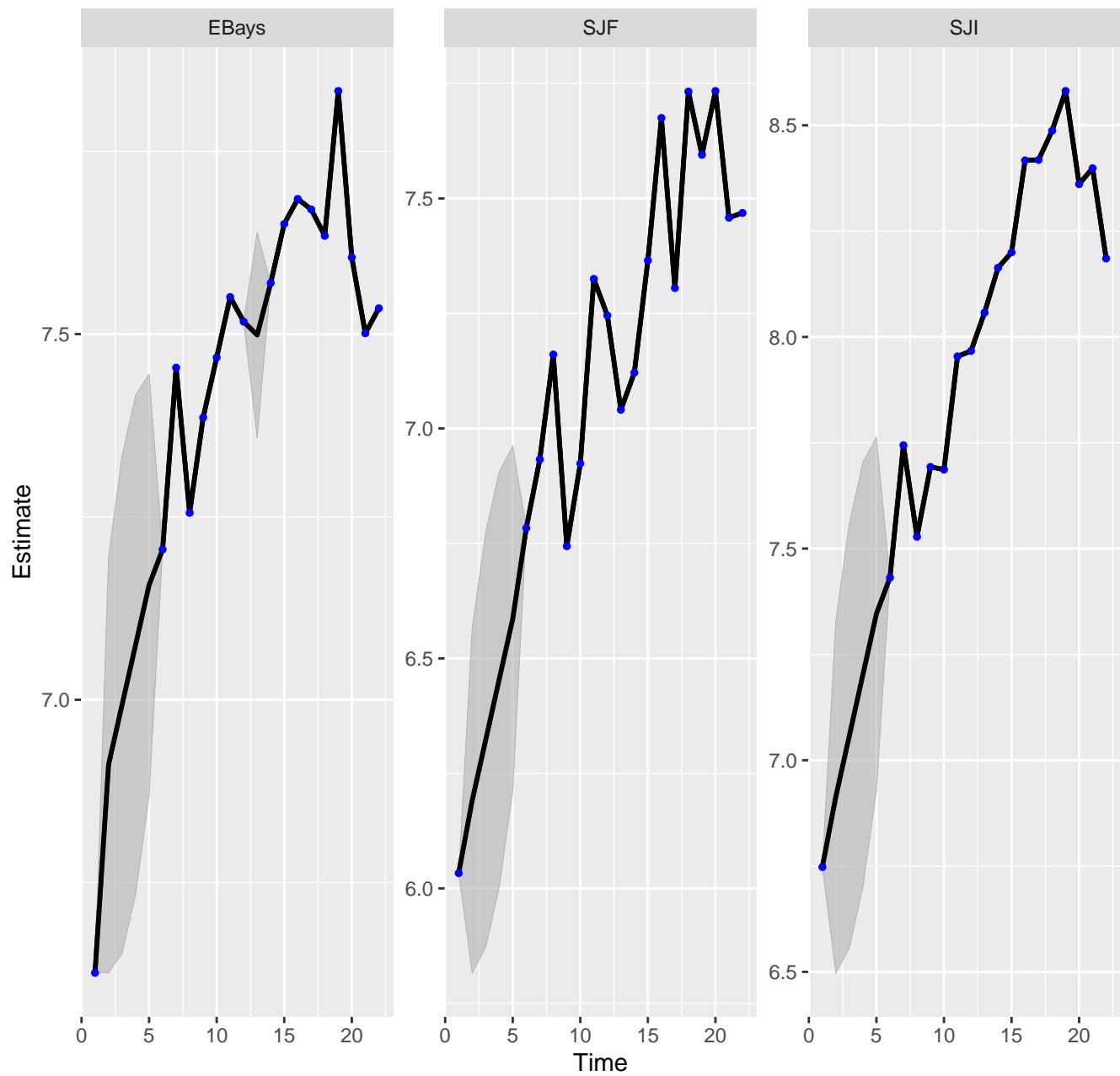
Model residuals normality test



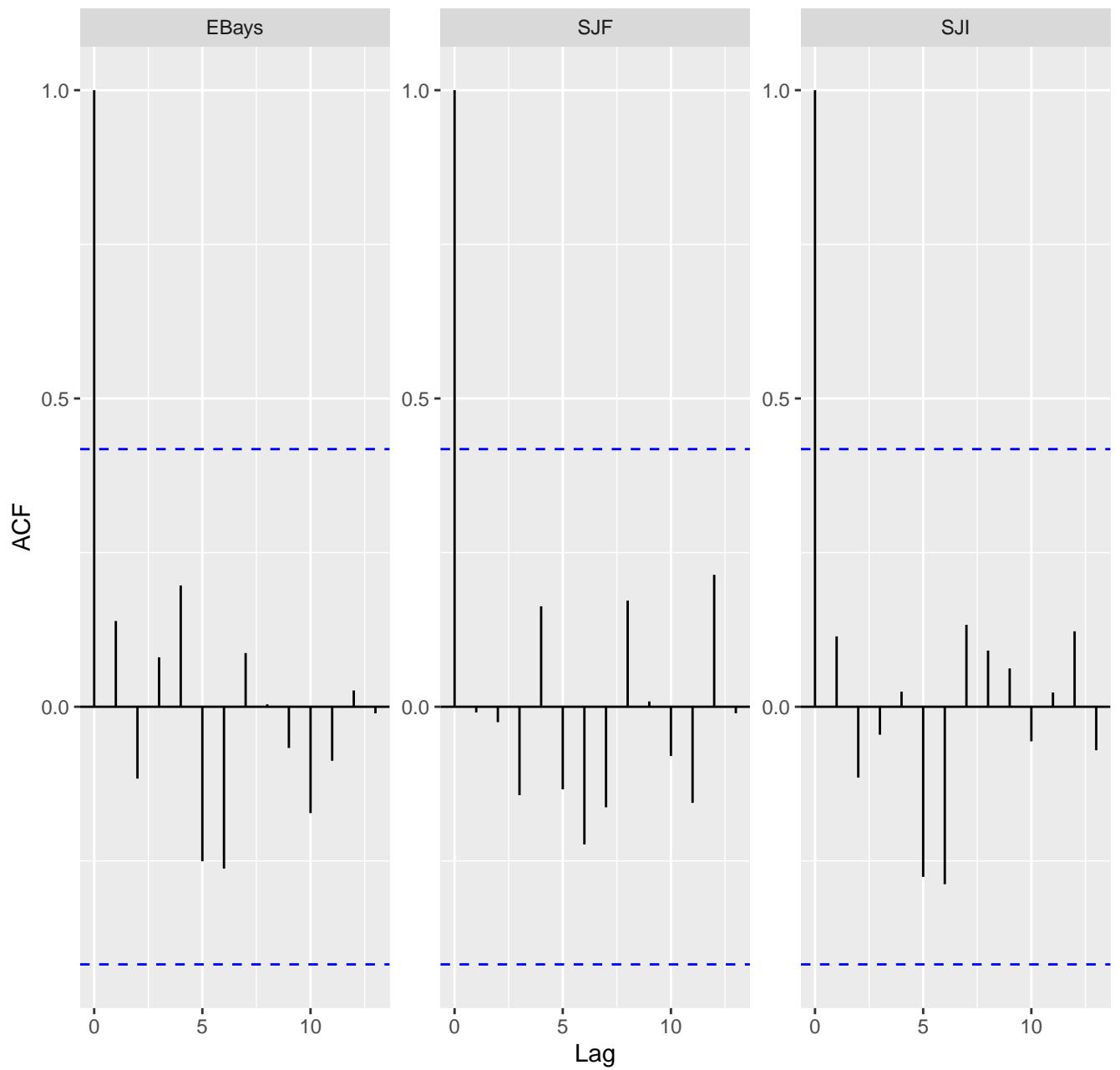
State residuals normality test

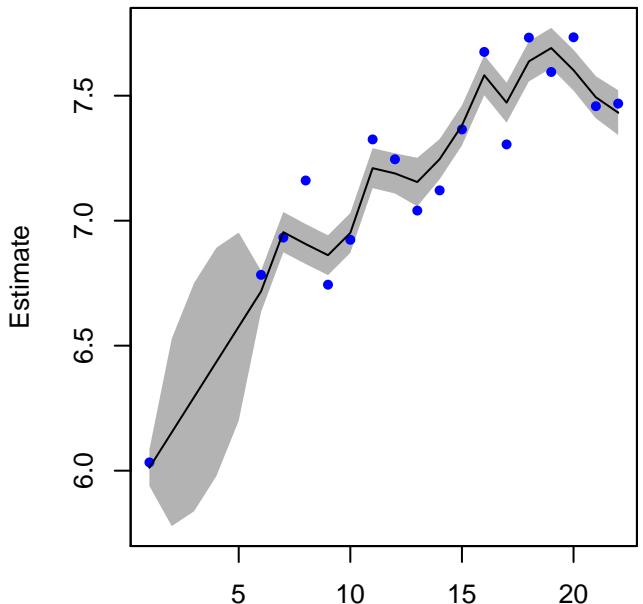
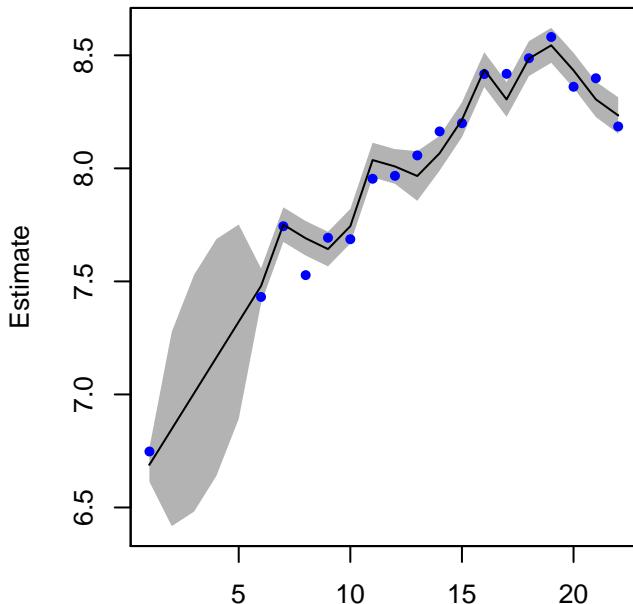
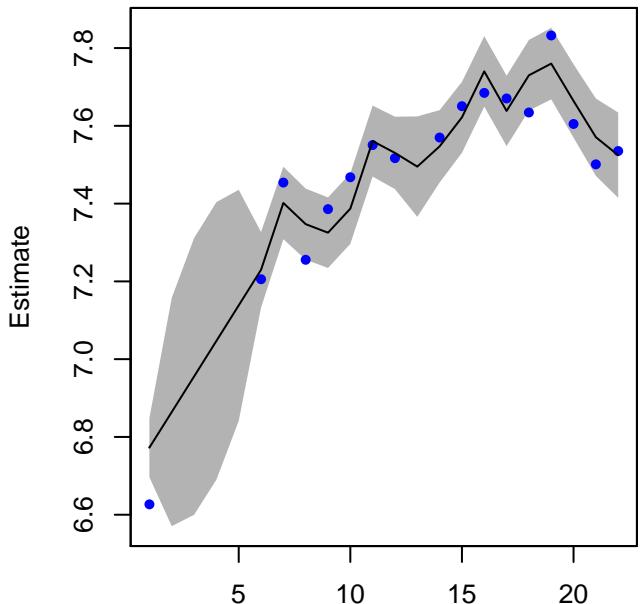


Expected value of Y conditioned on data

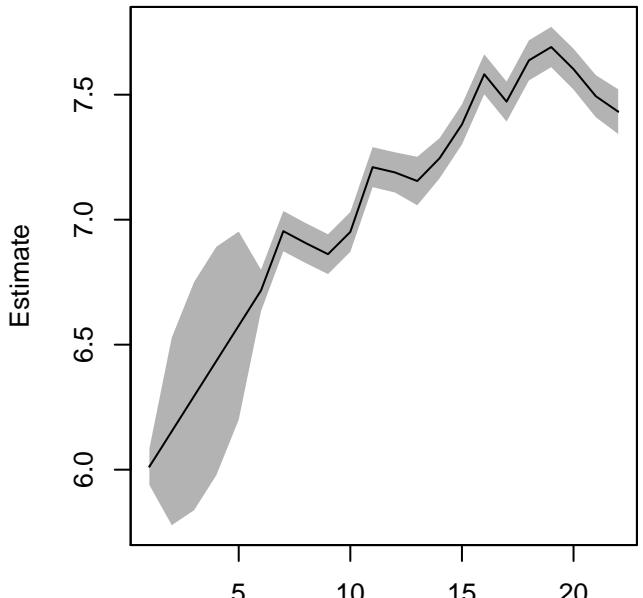


Model innovations residuals ACF

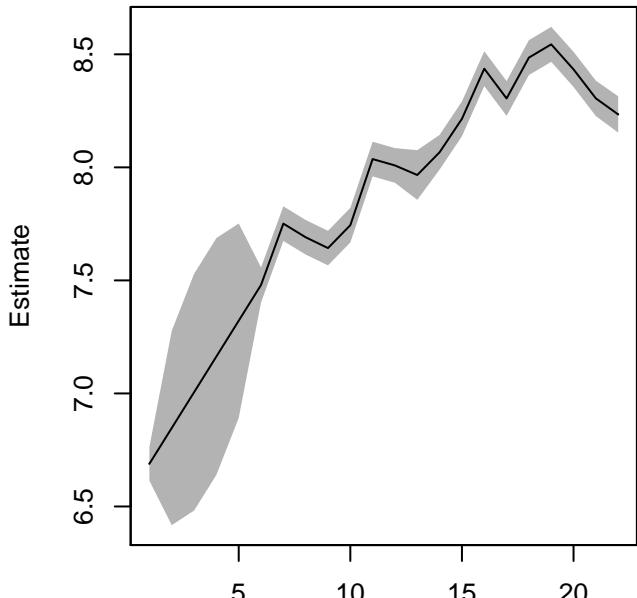


SJF + CI**SJI + CI****EBays + CI**

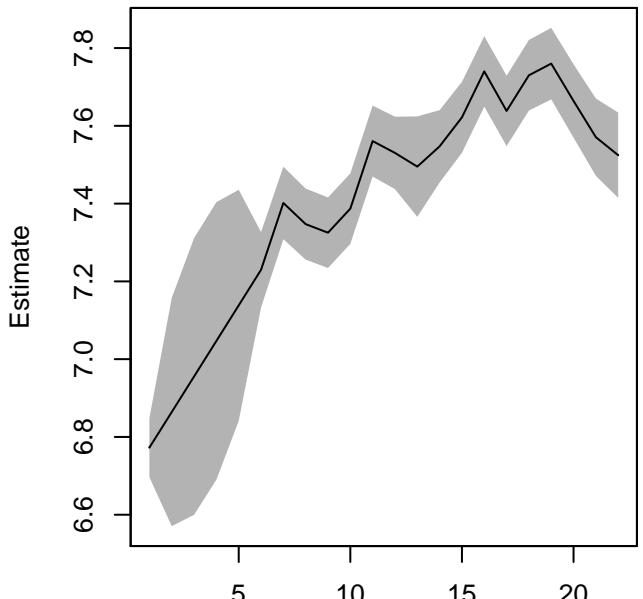
State X.SJF

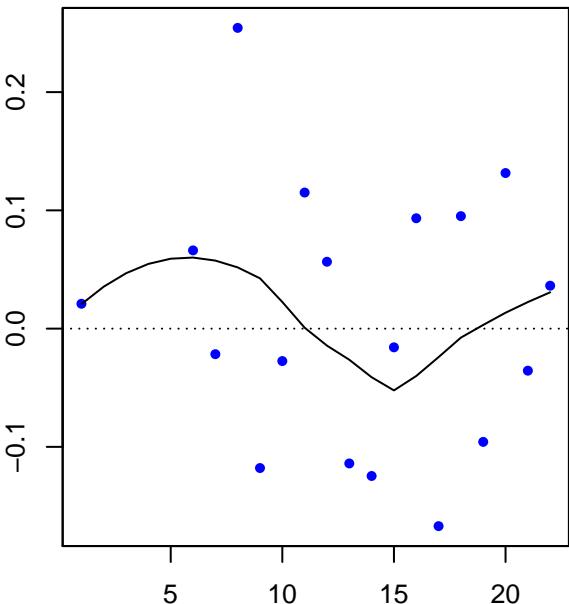
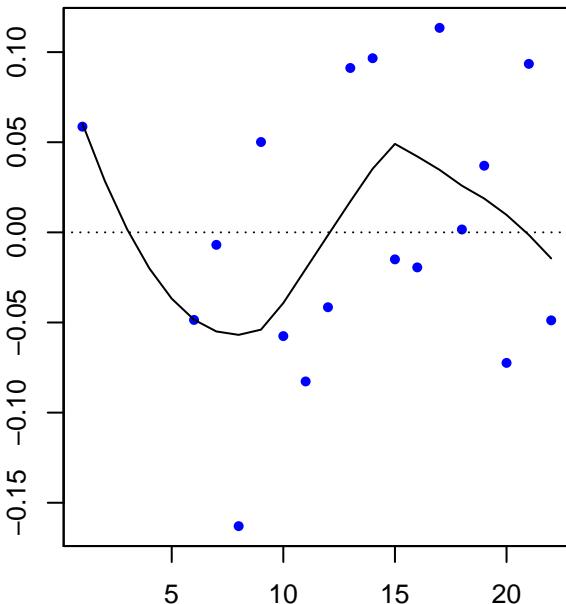
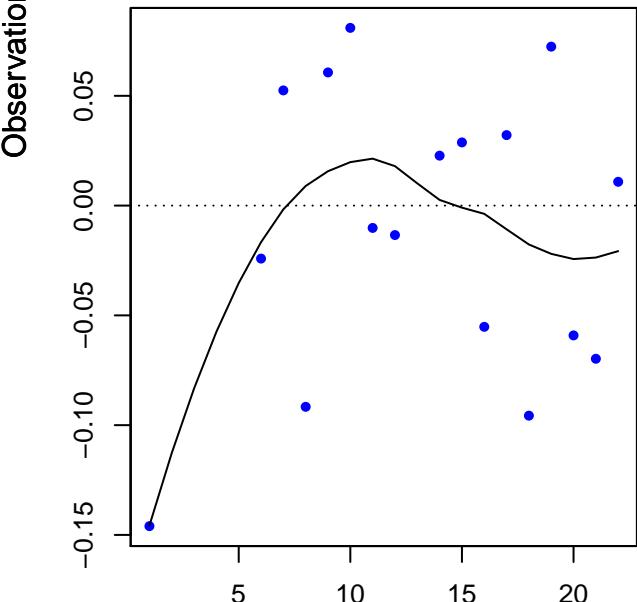


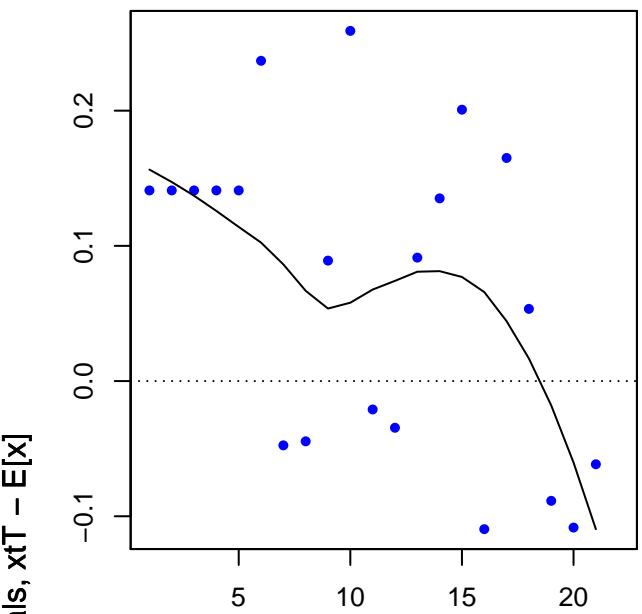
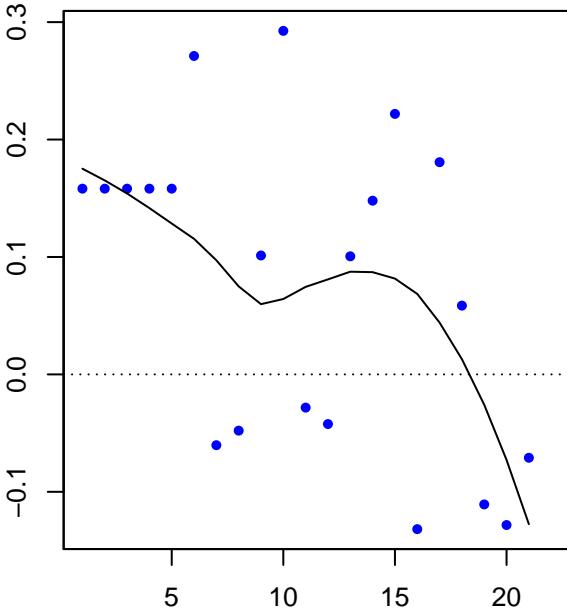
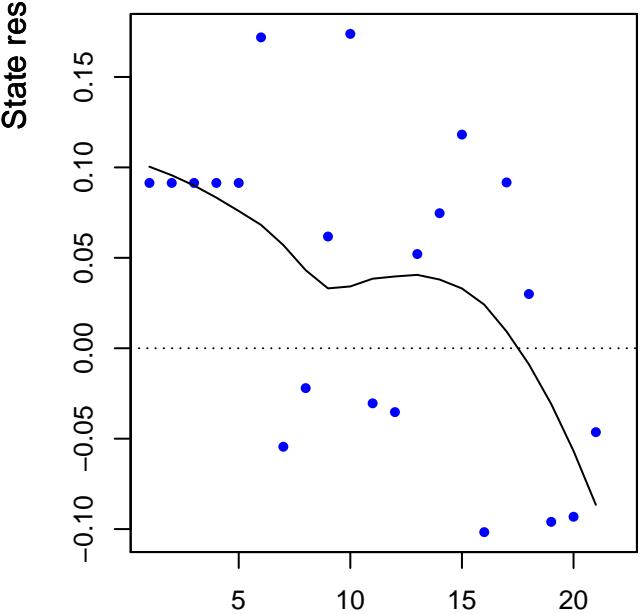
State X.SJI

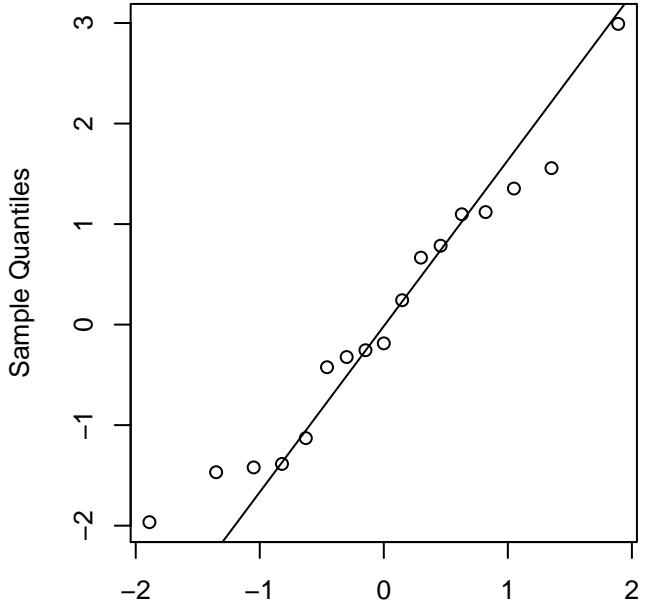
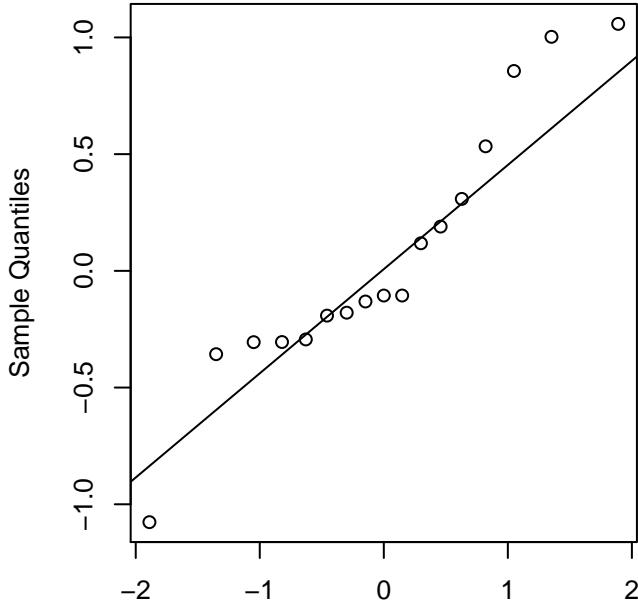
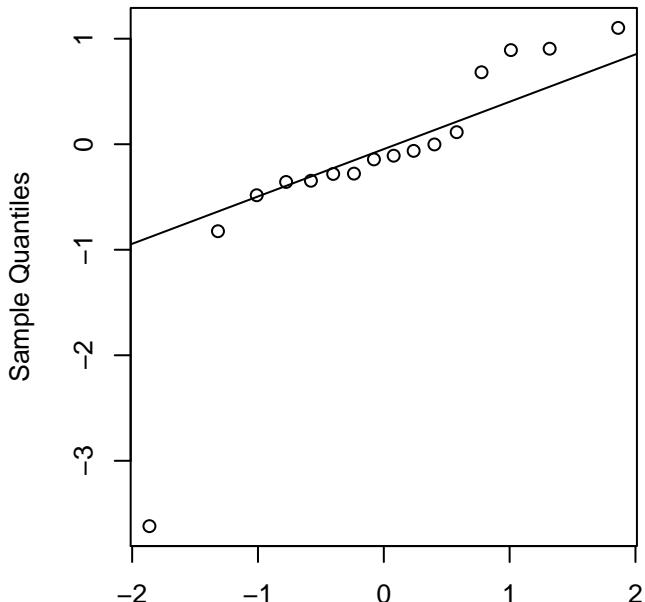


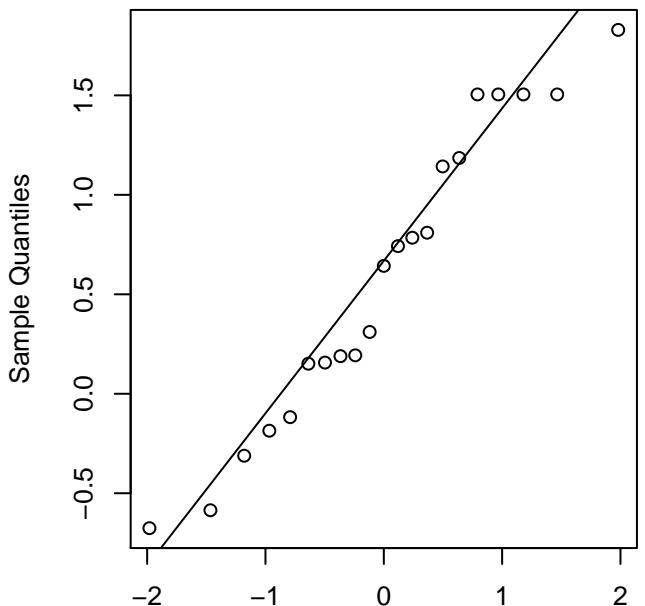
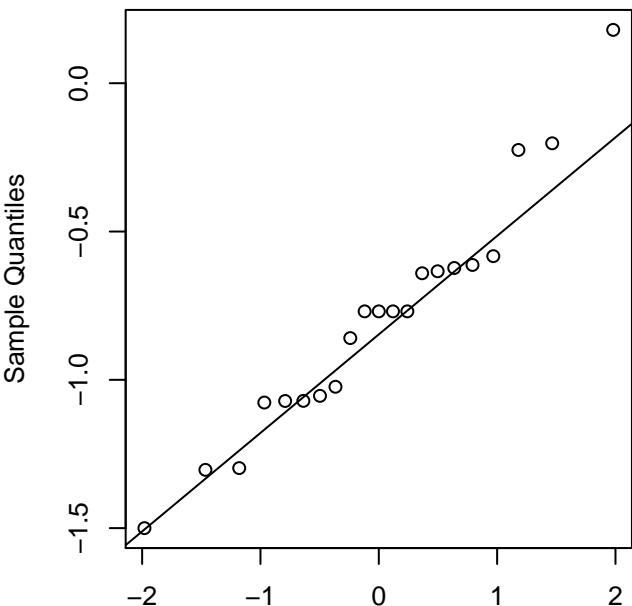
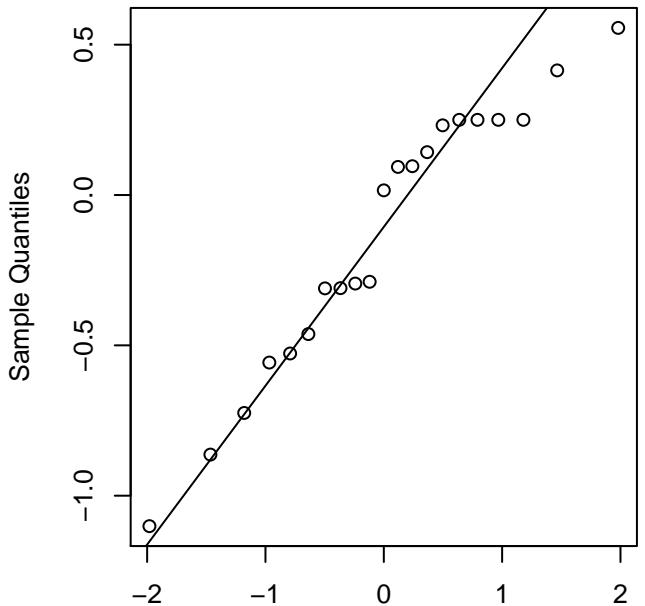
State X.EBays

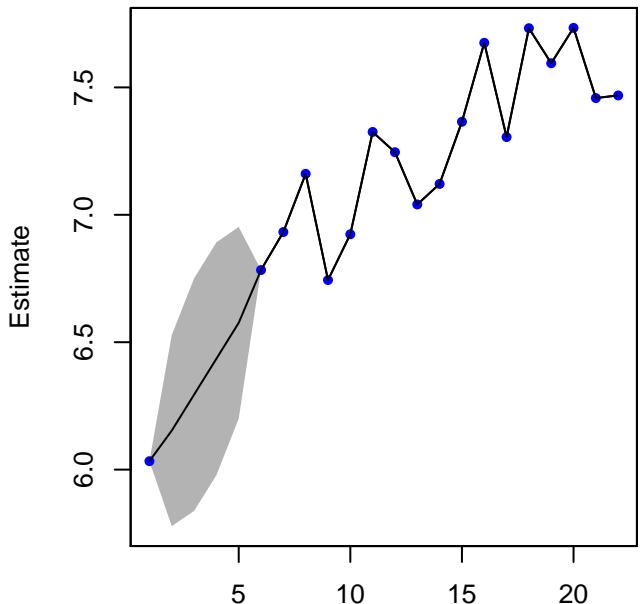
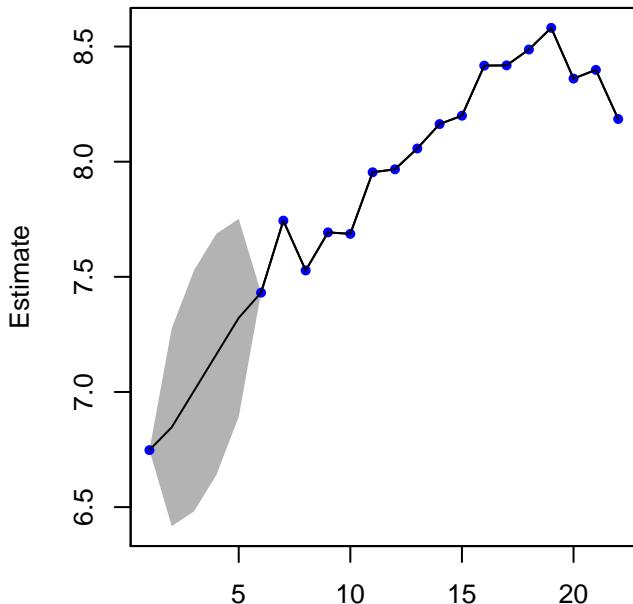
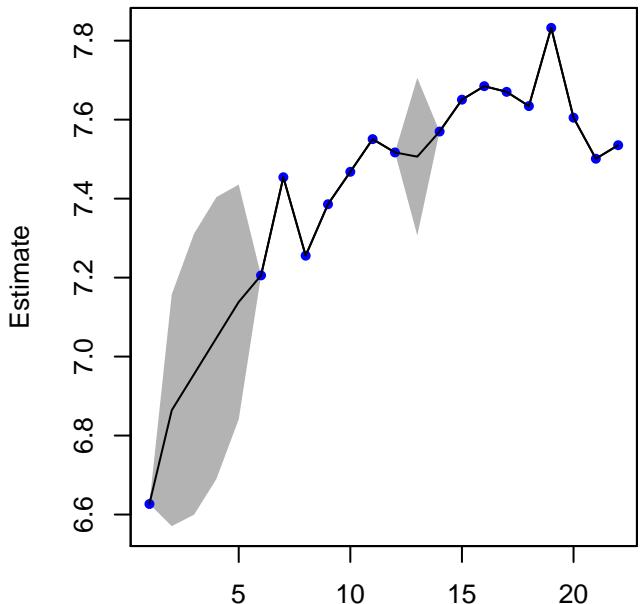


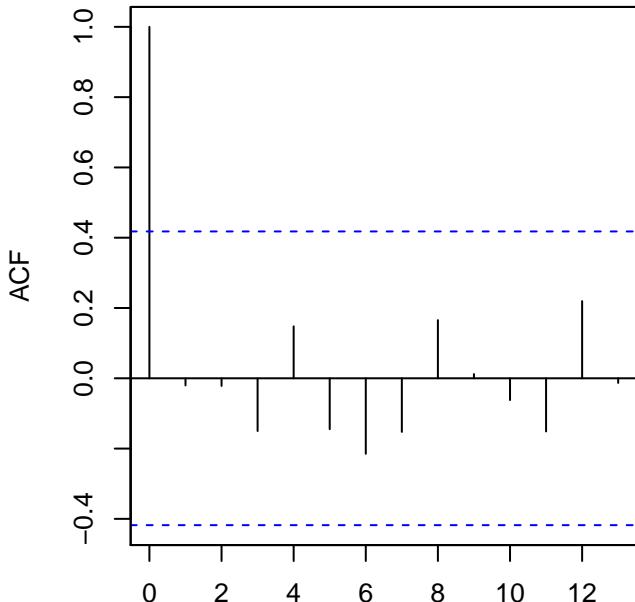
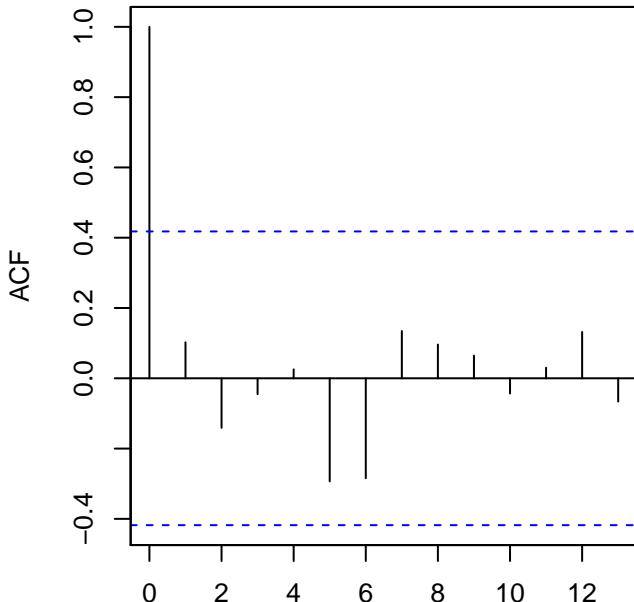
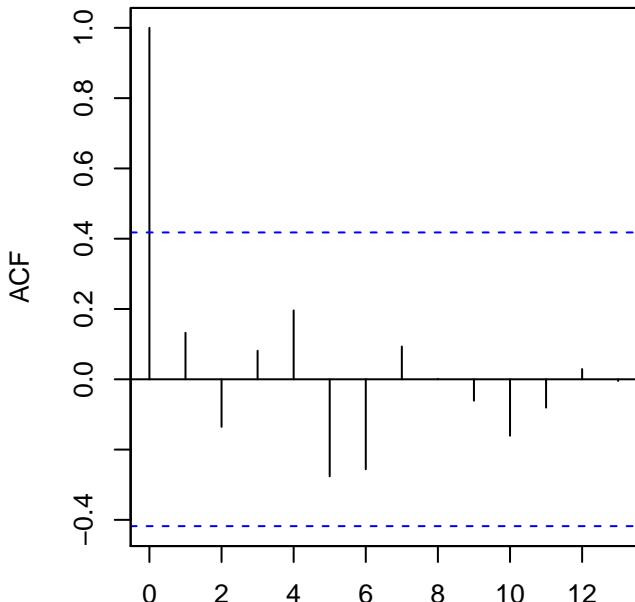
SJFObservation residuals, $y - E[y]$ **SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

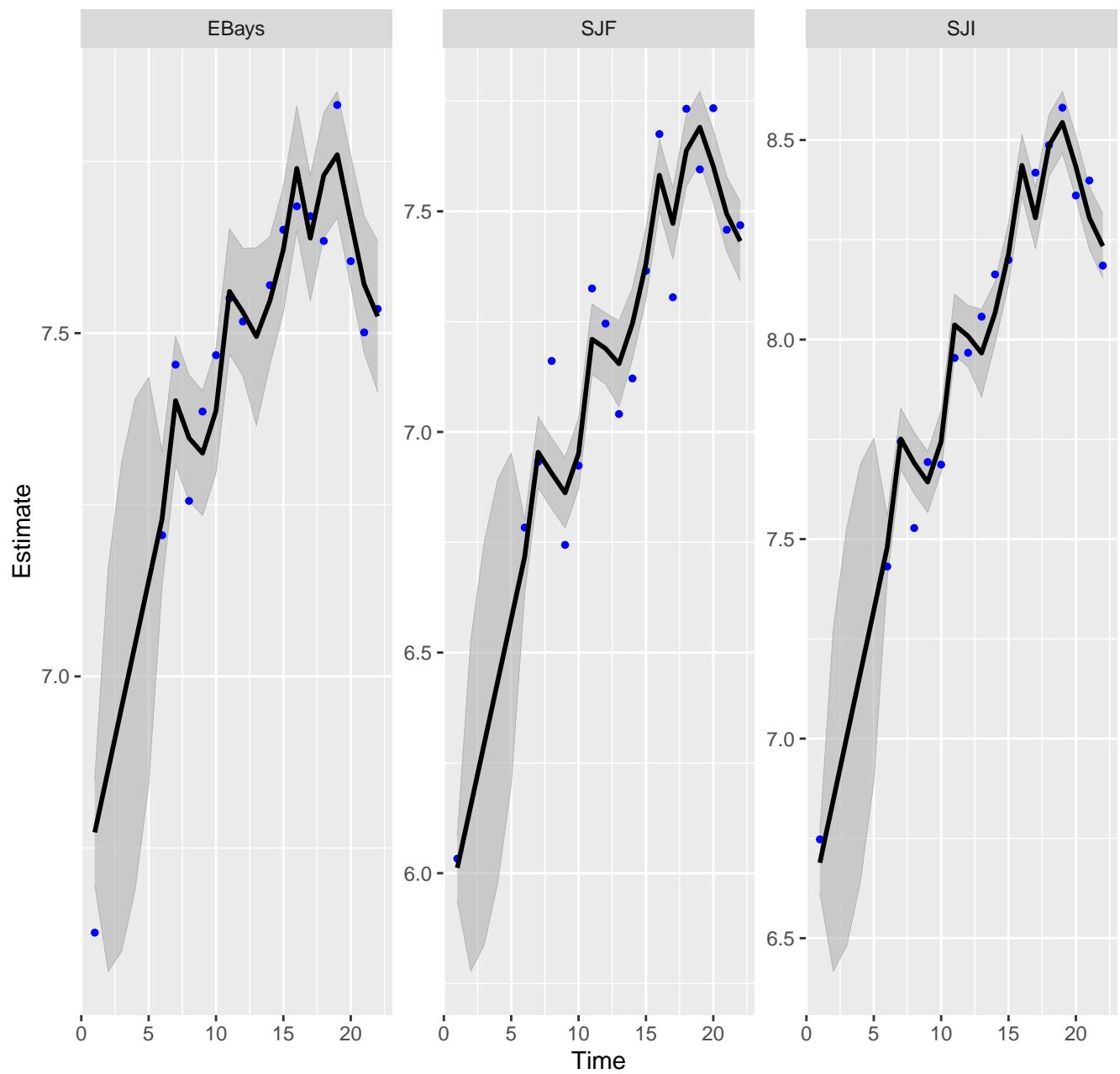
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

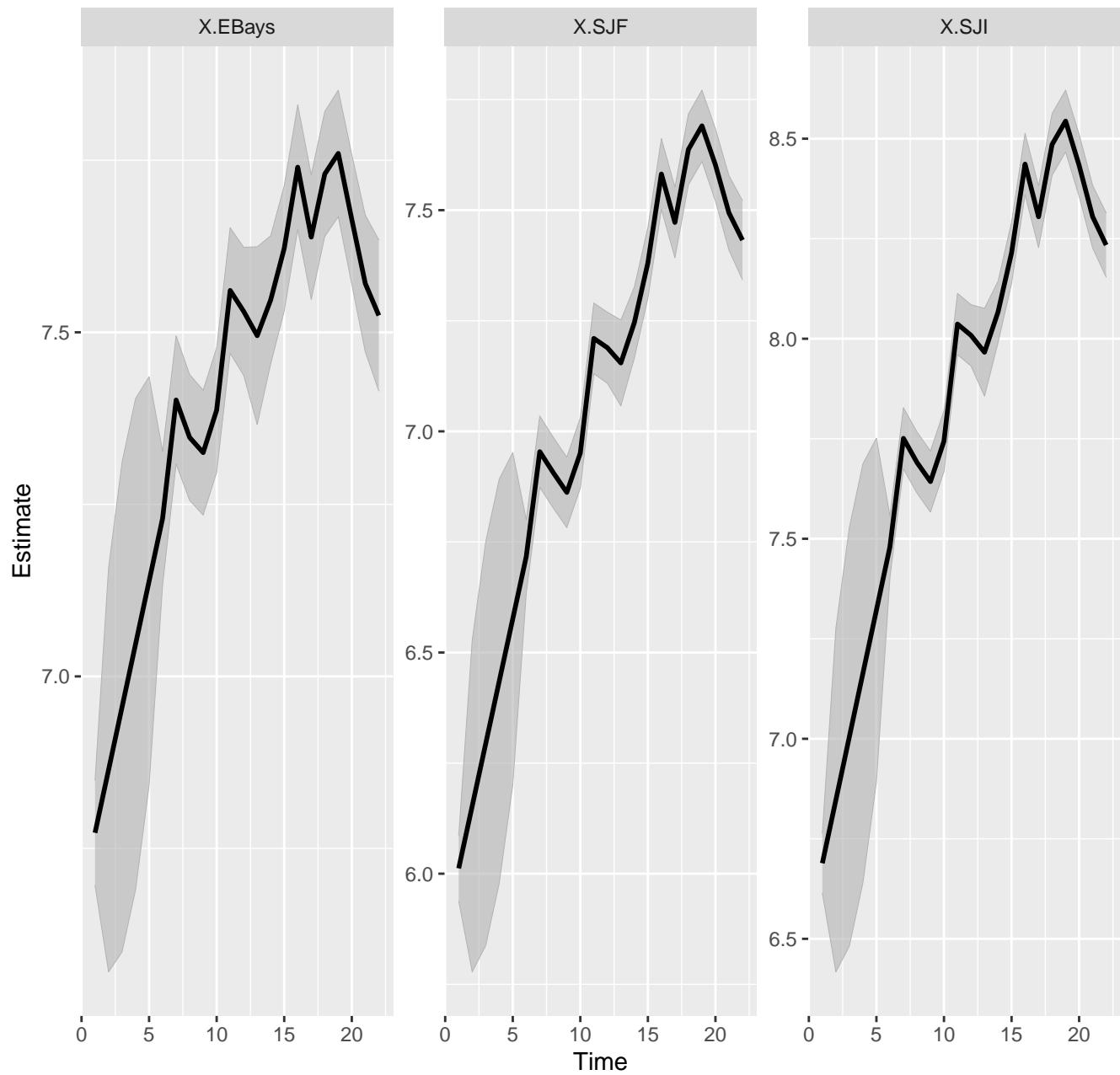
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

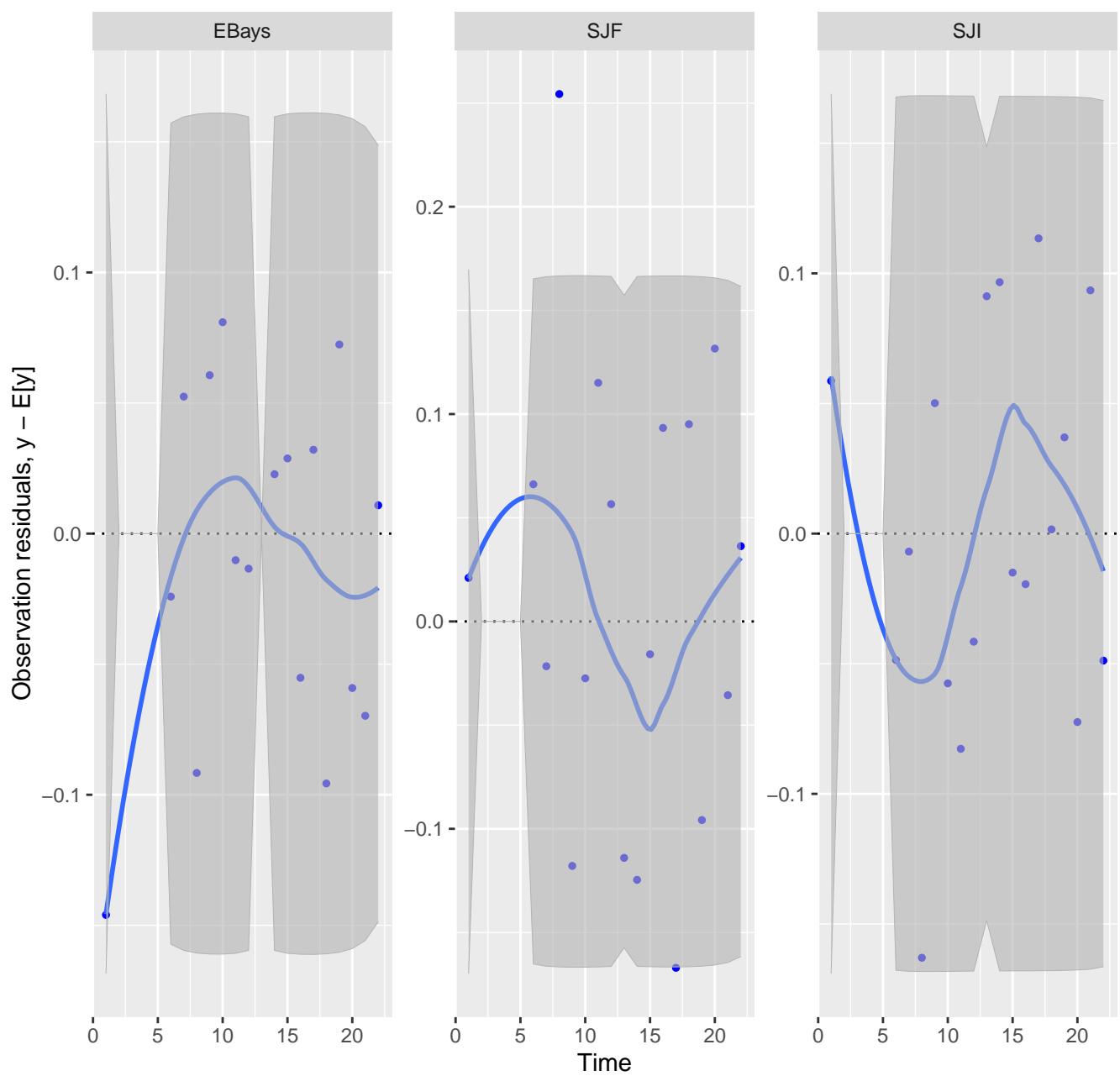
Model fitted Y + CI



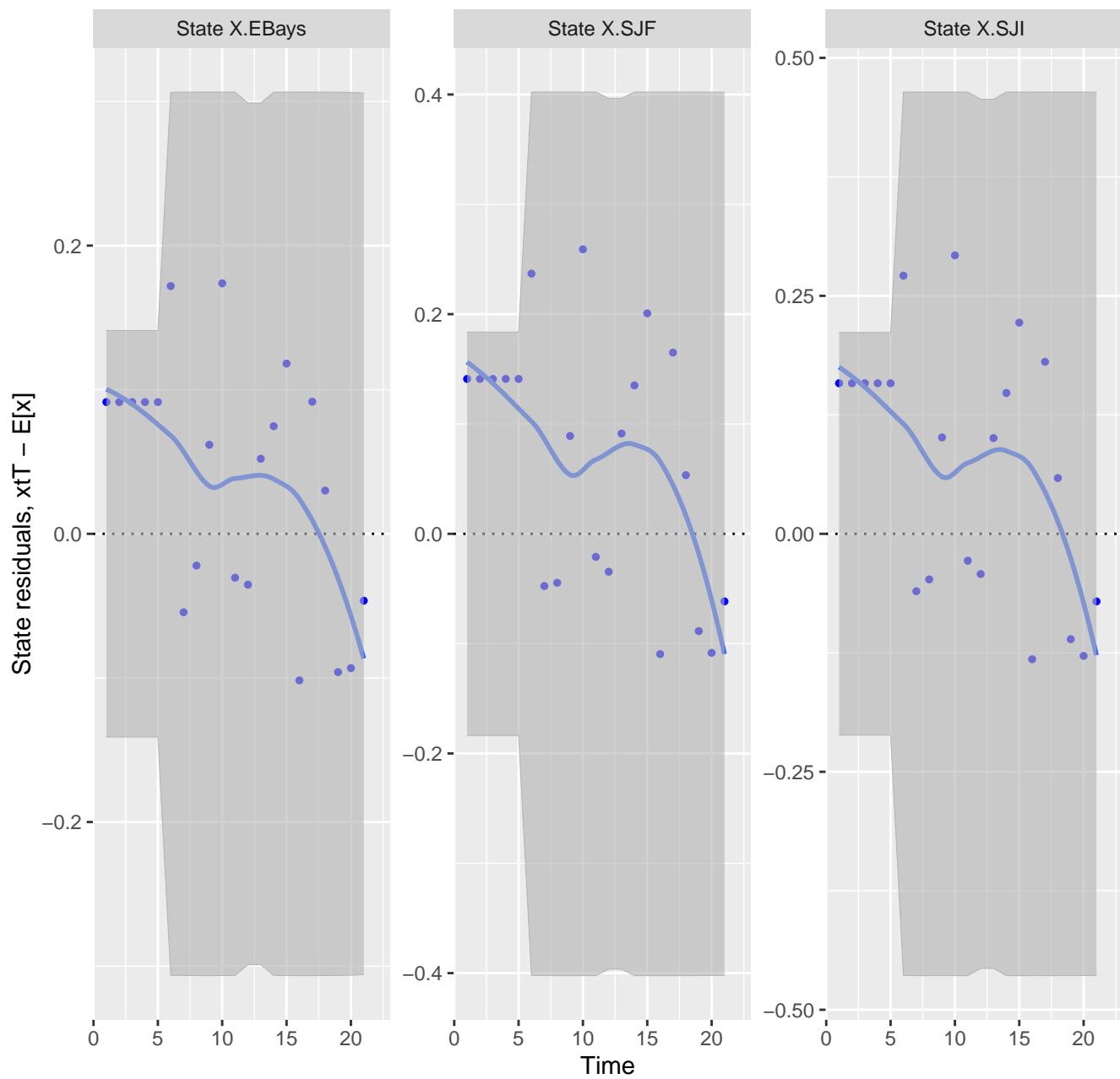
States



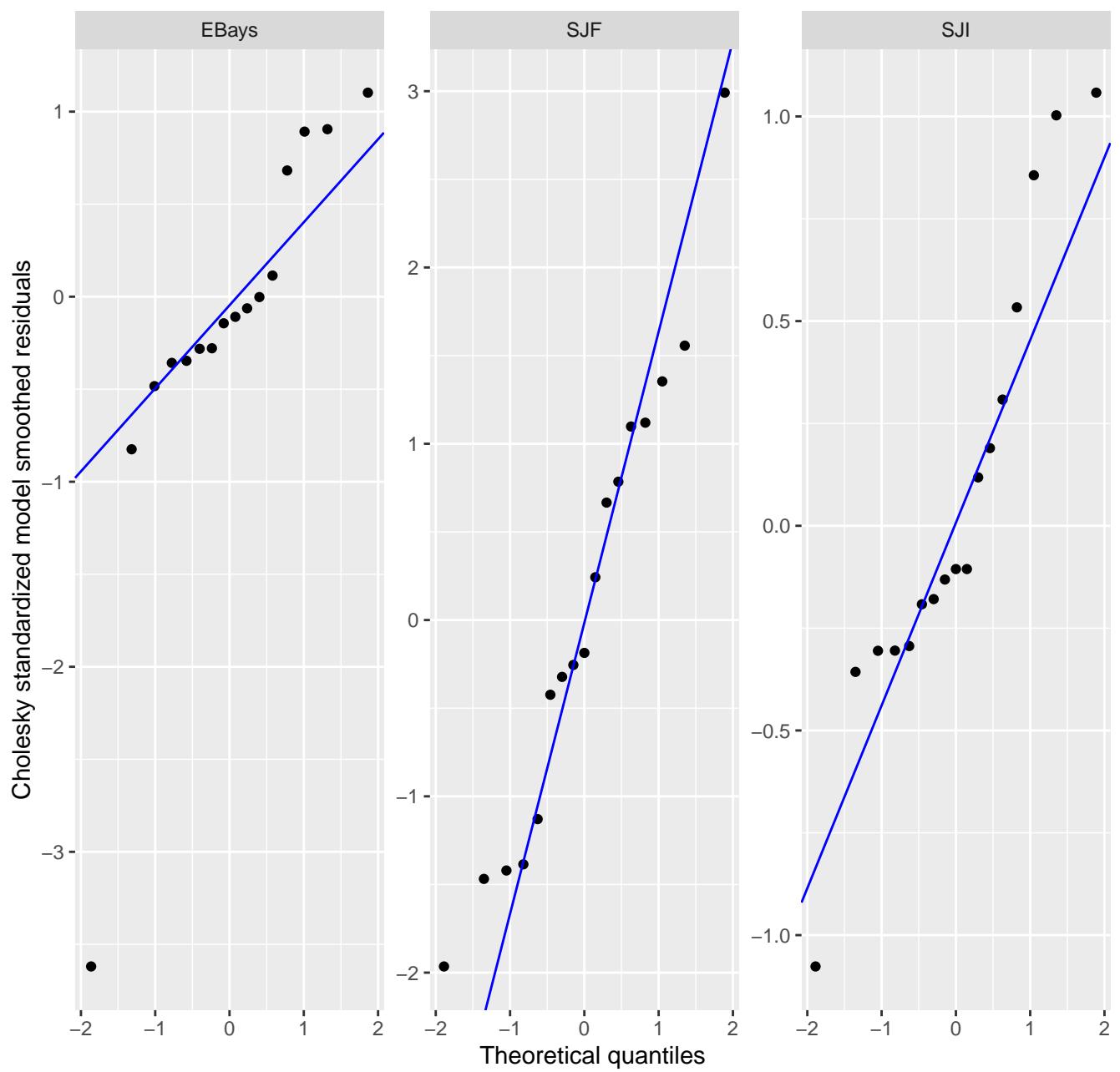
Model residuals



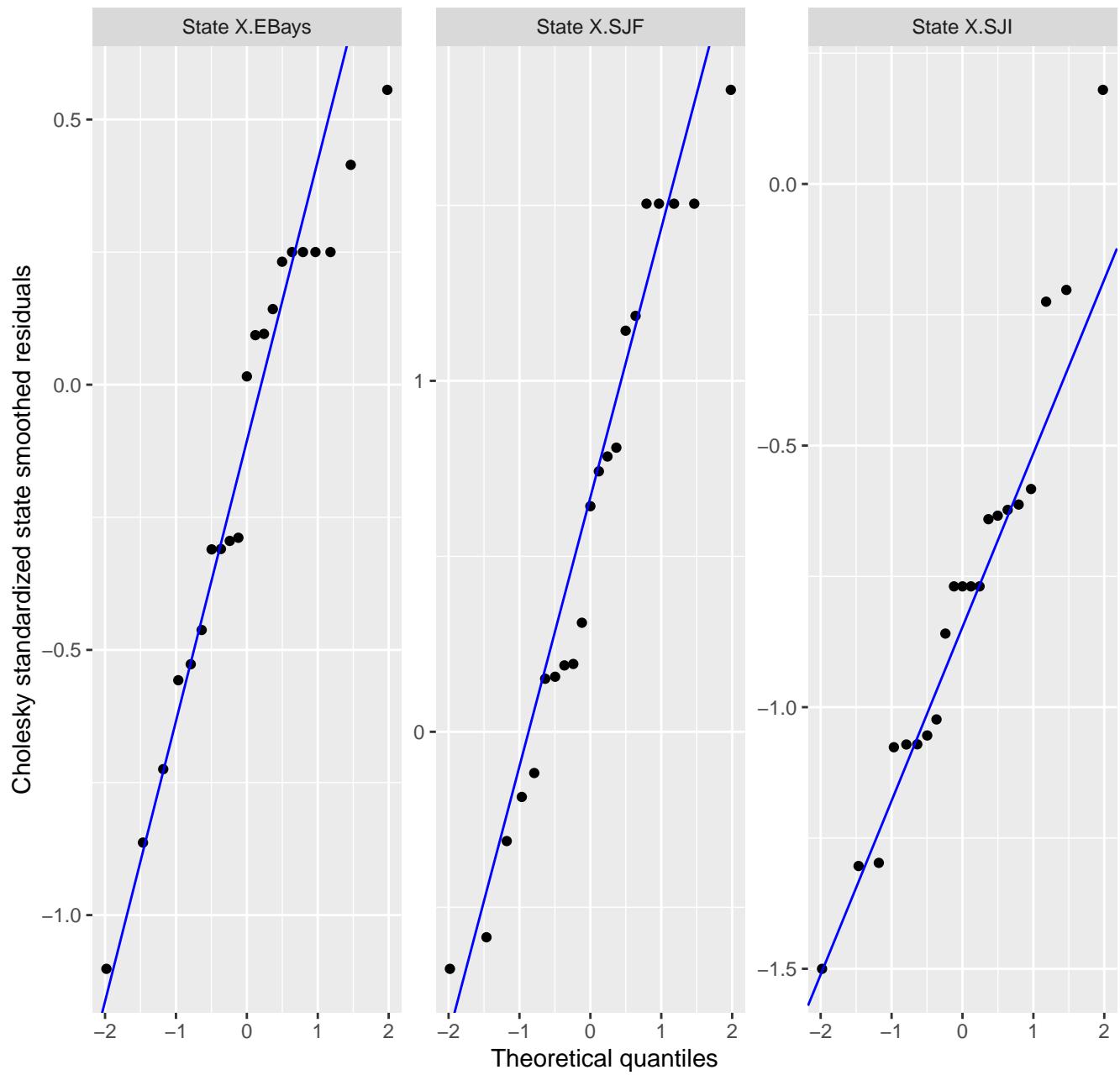
State residuals



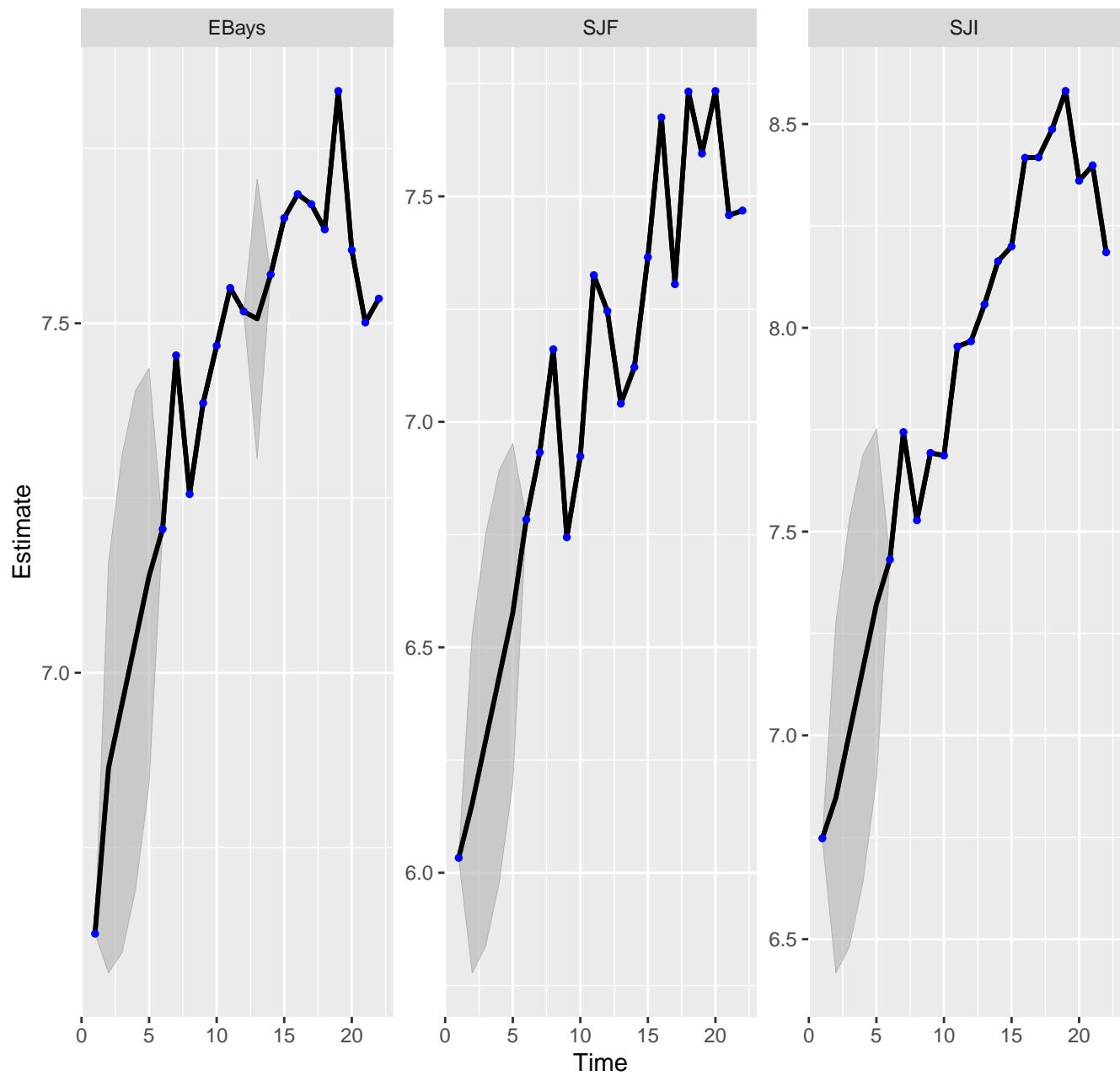
Model residuals normality test



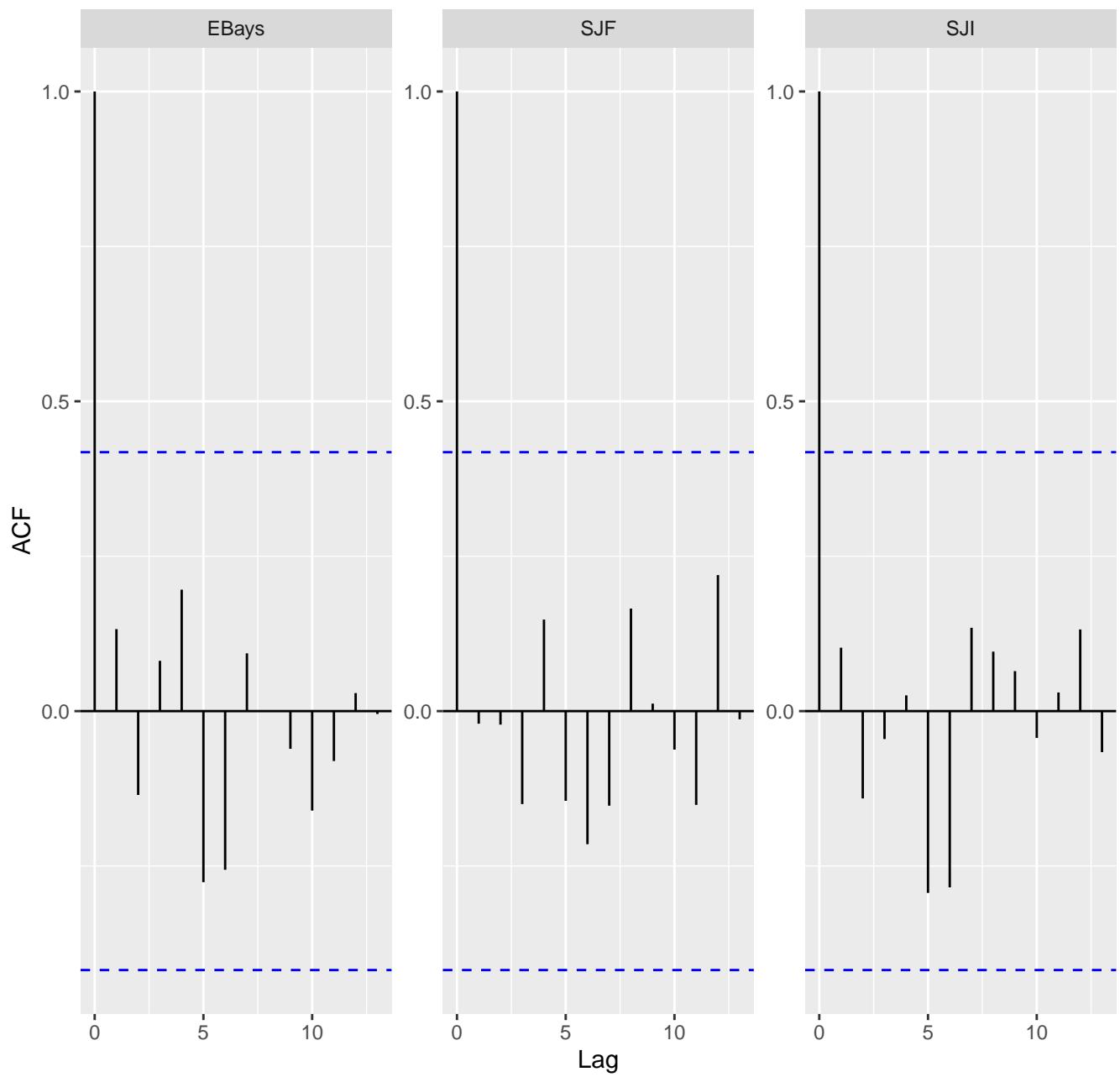
State residuals normality test

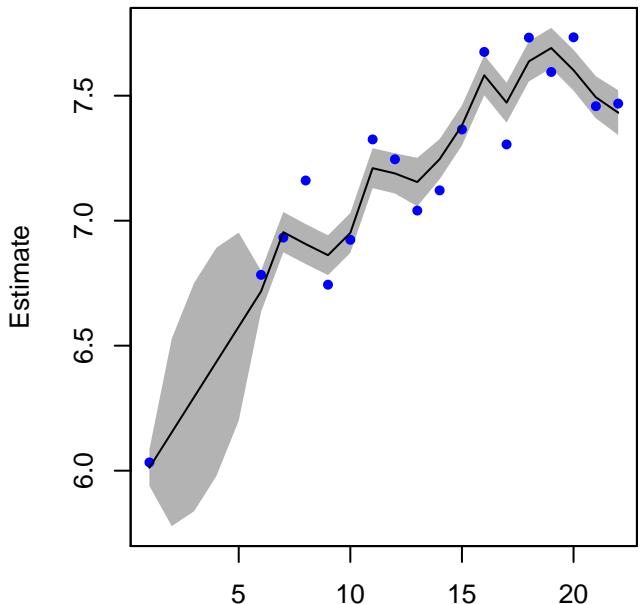
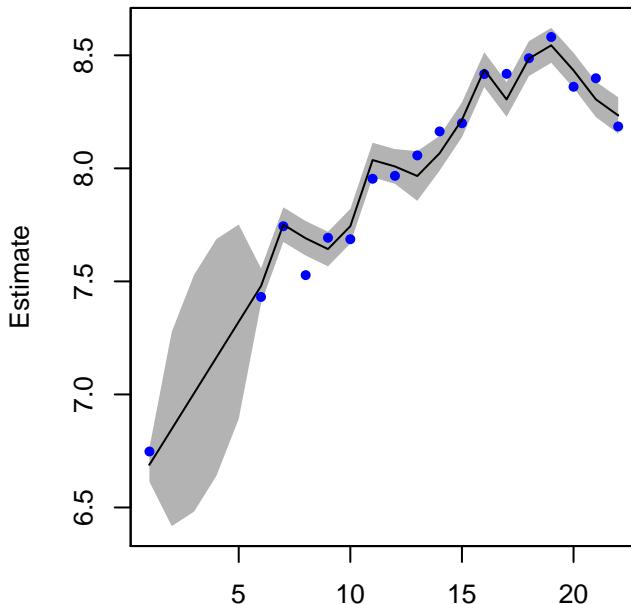
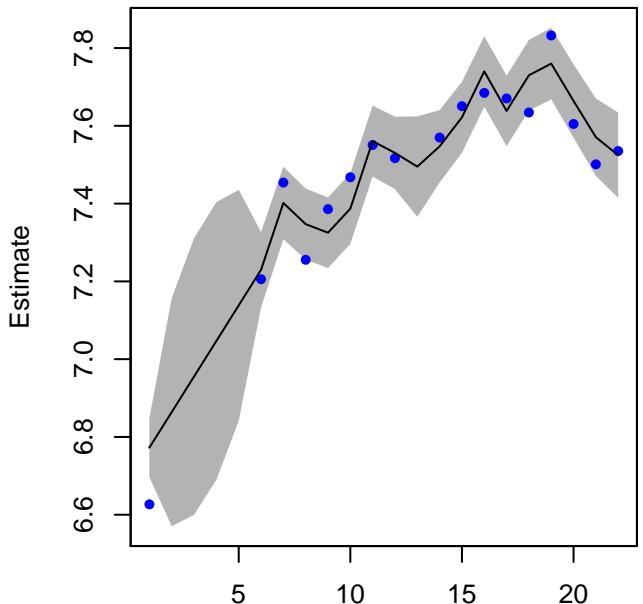


Expected value of Y conditioned on data

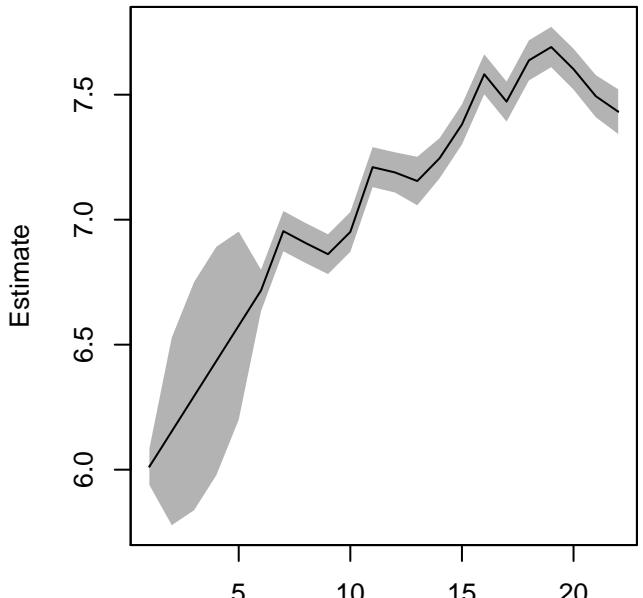


Model innovations residuals ACF

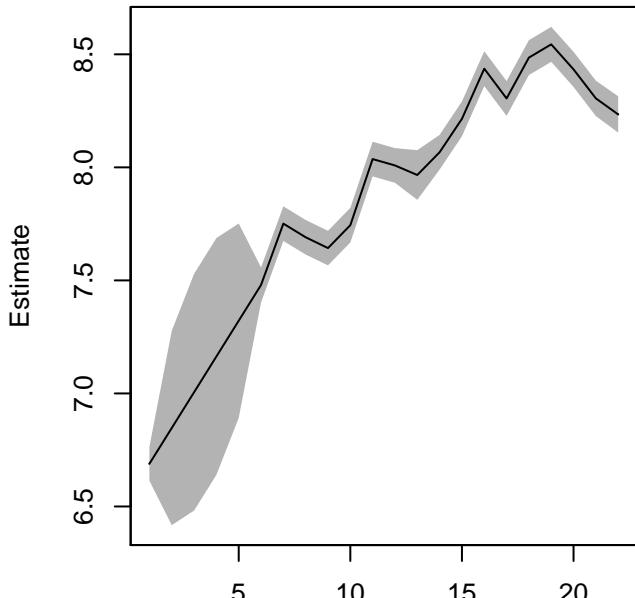


SJF + CI**SJI + CI****EBays + CI**

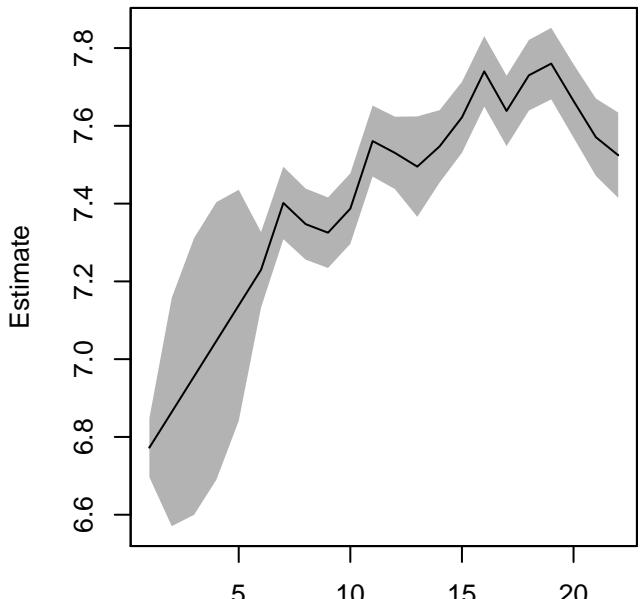
State X.SJF

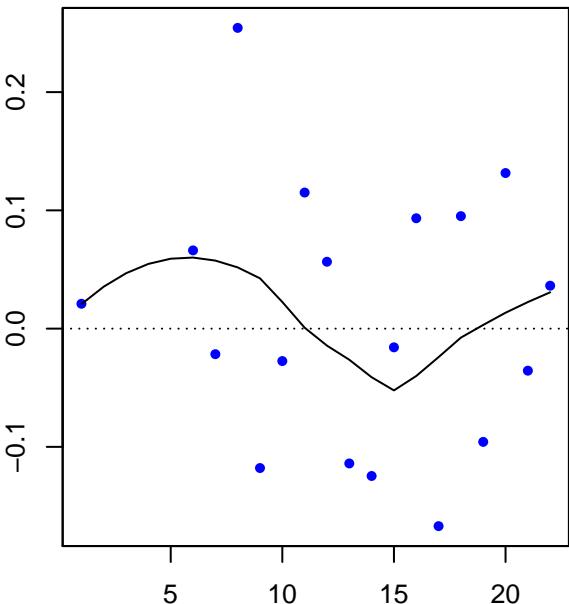
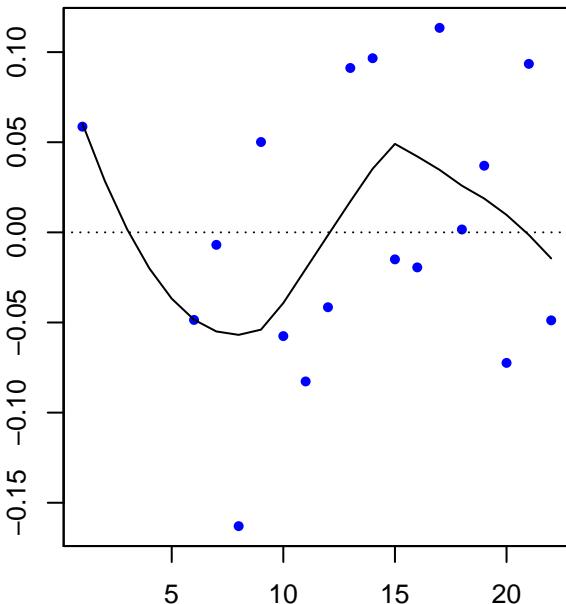
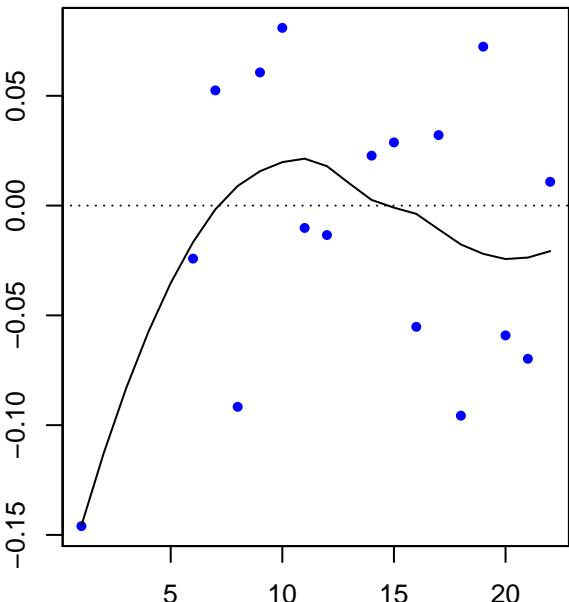


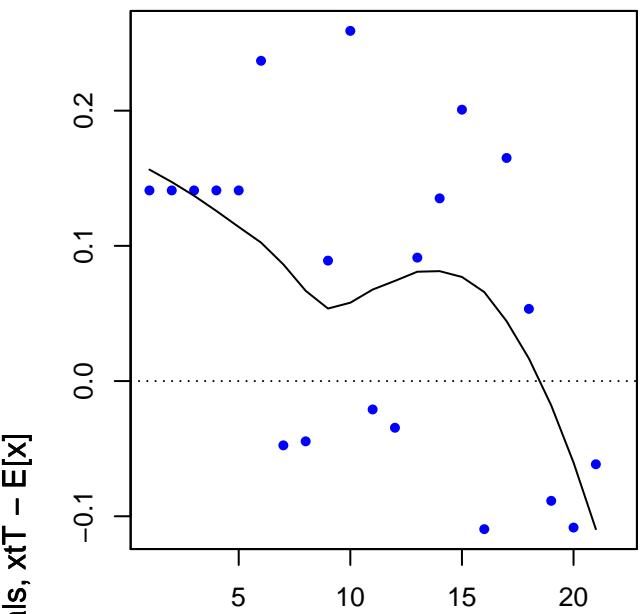
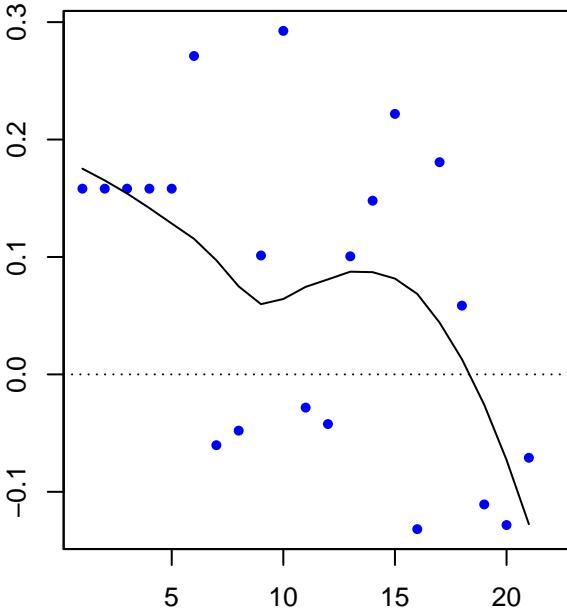
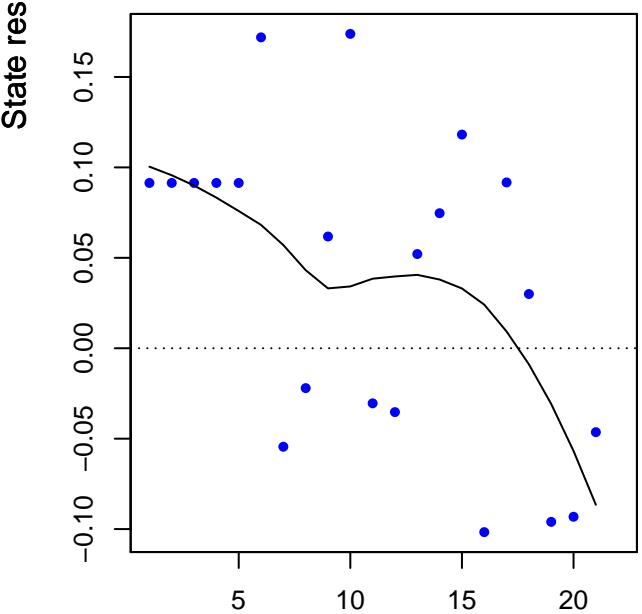
State X.SJI

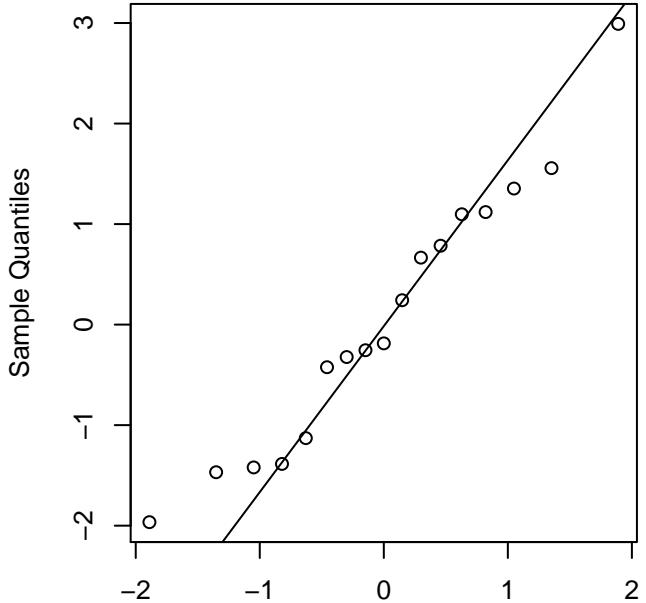
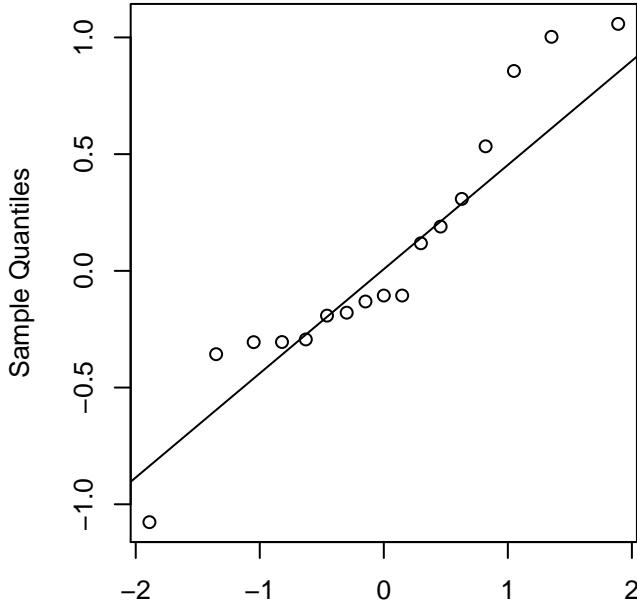
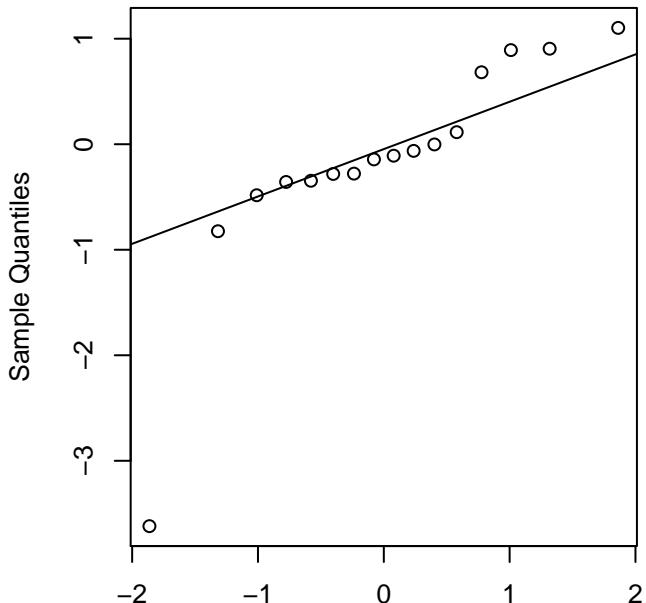


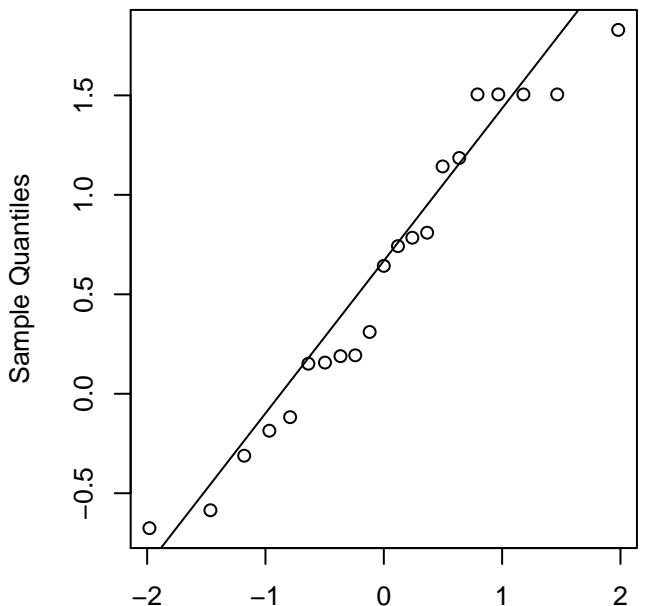
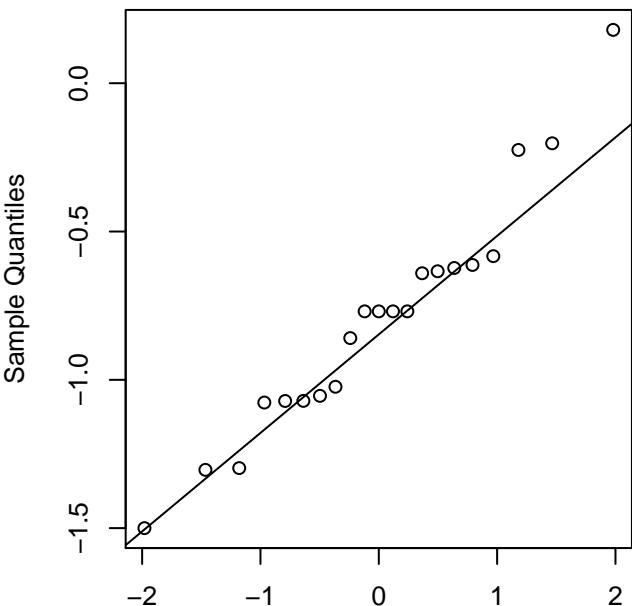
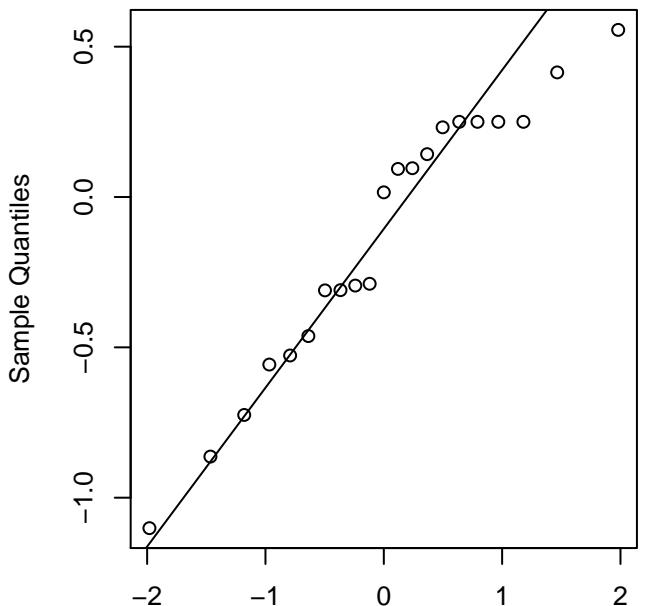
State X.EBays

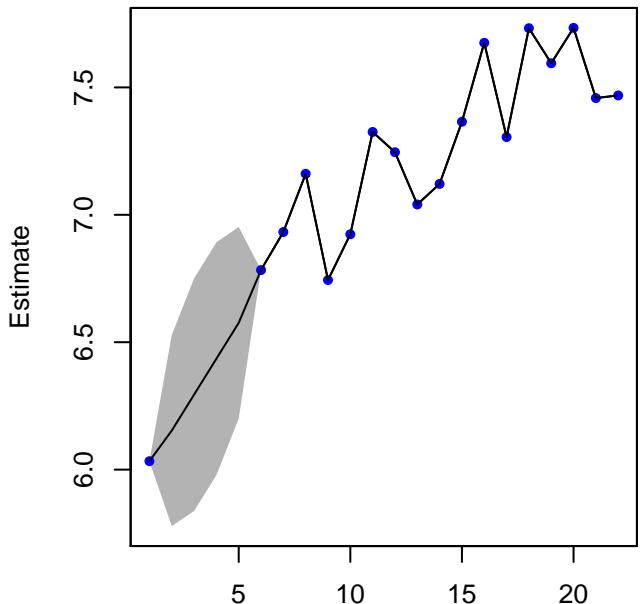
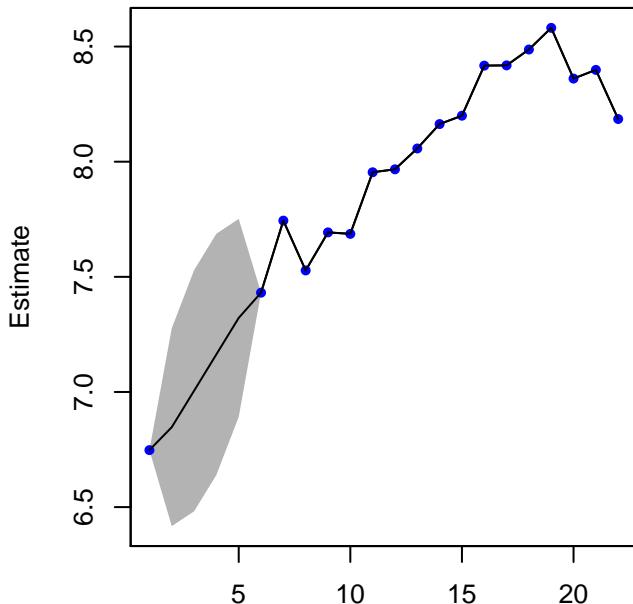
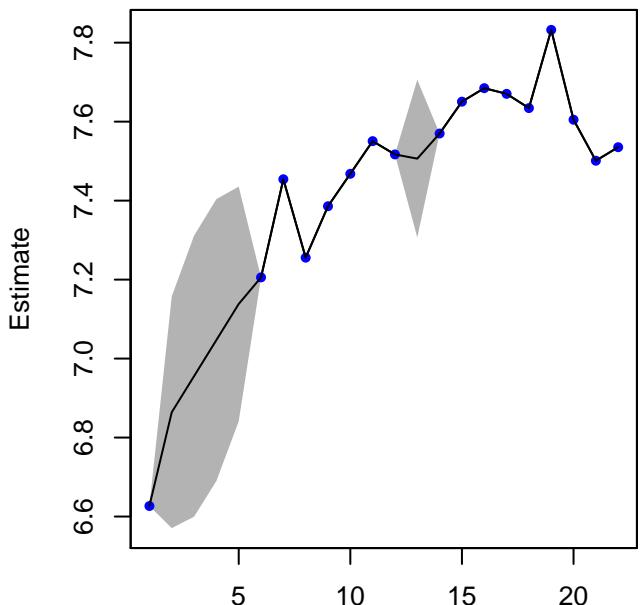


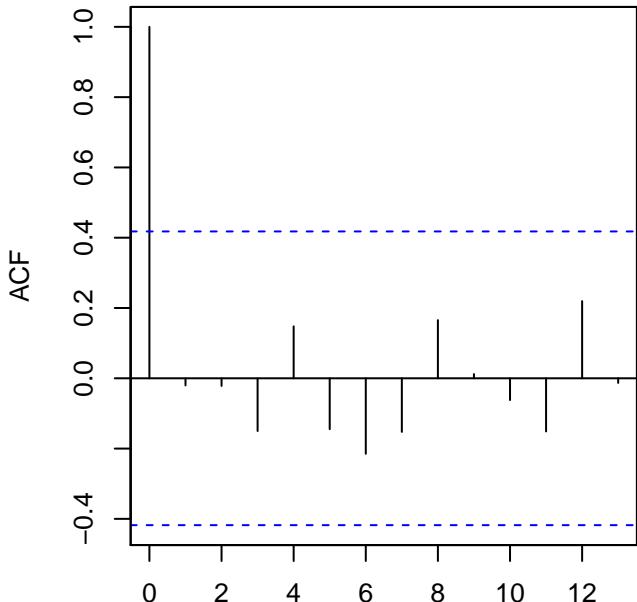
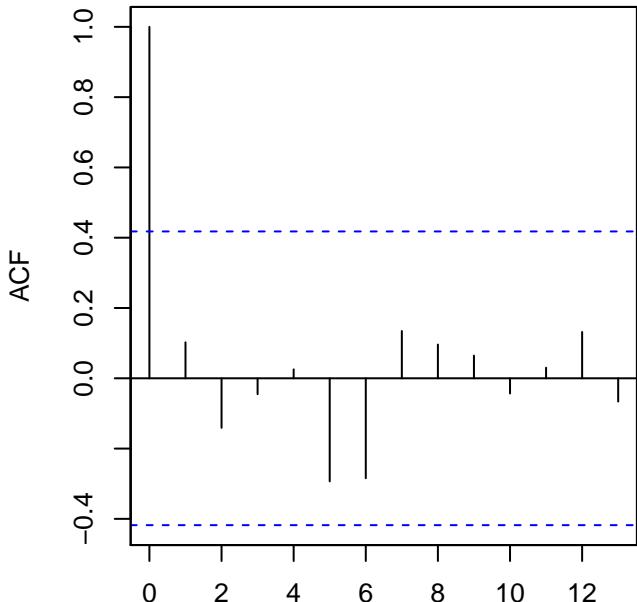
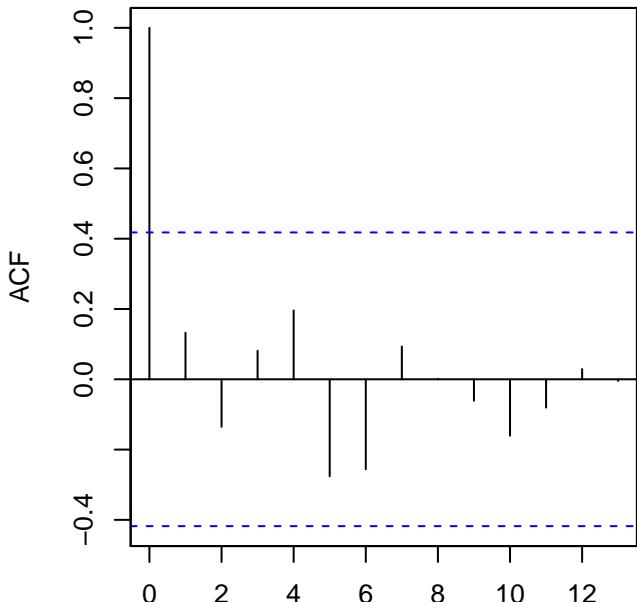
SJFObservation residuals, $y - E[y]$ **SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

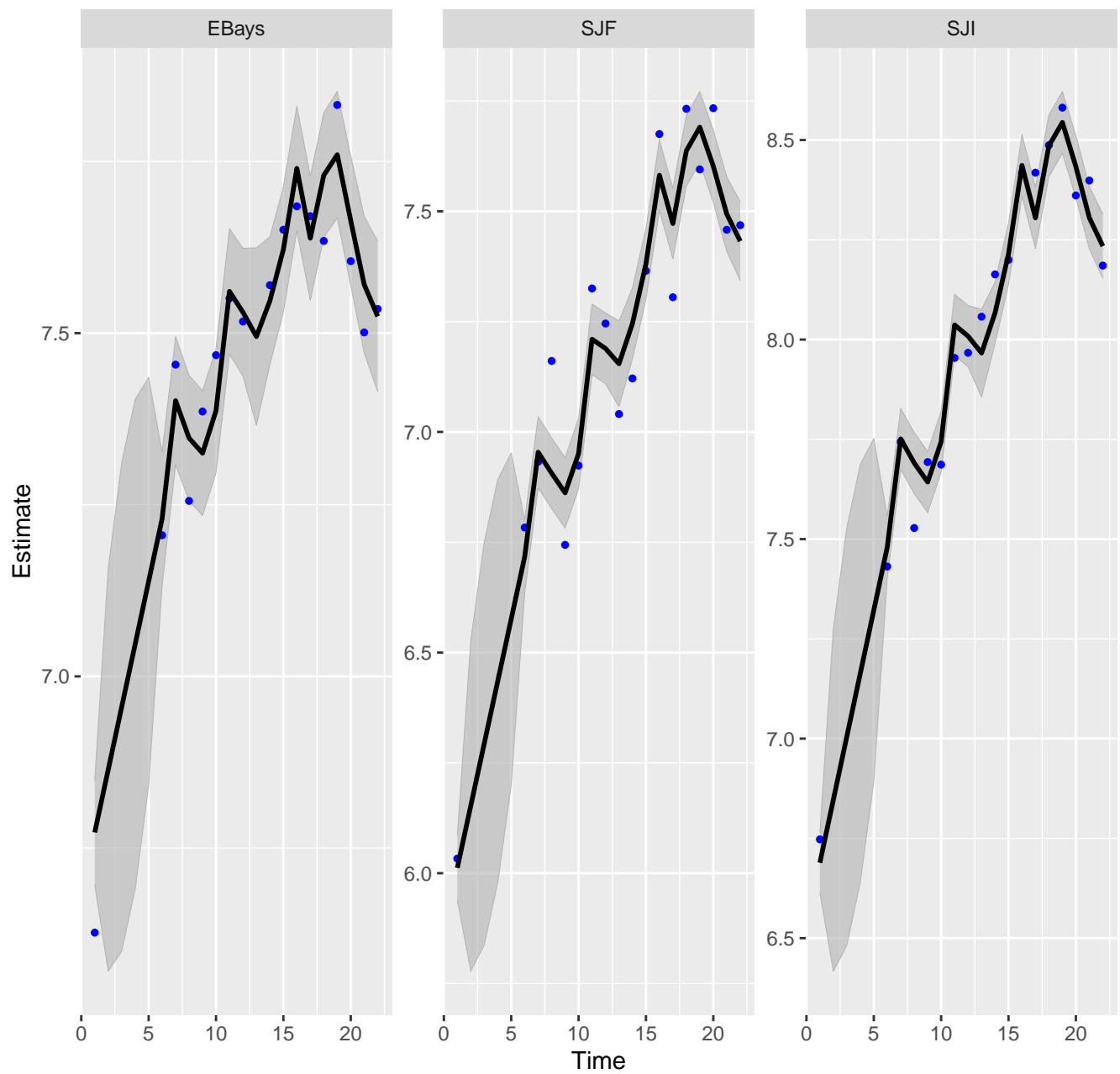
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

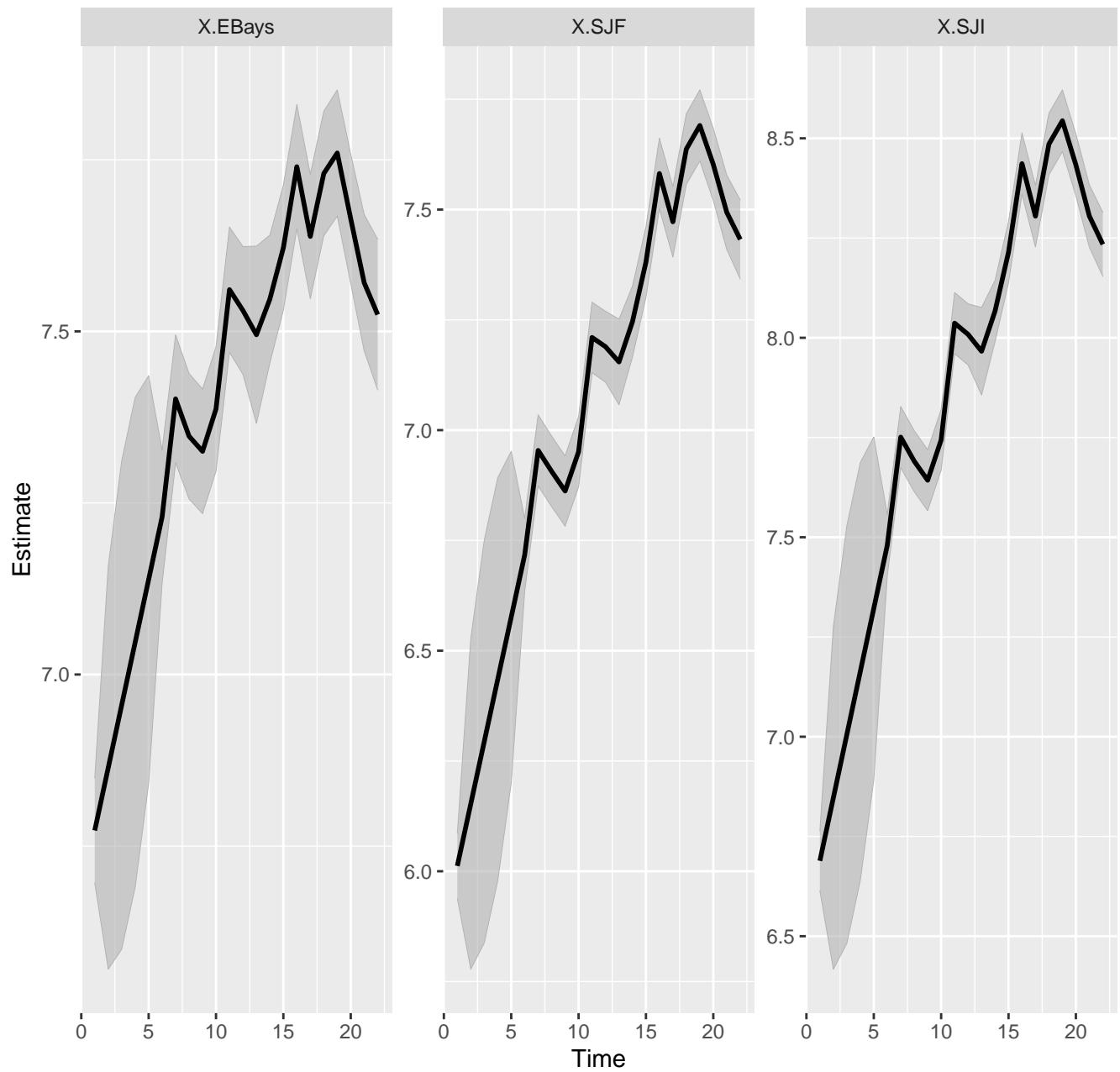
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

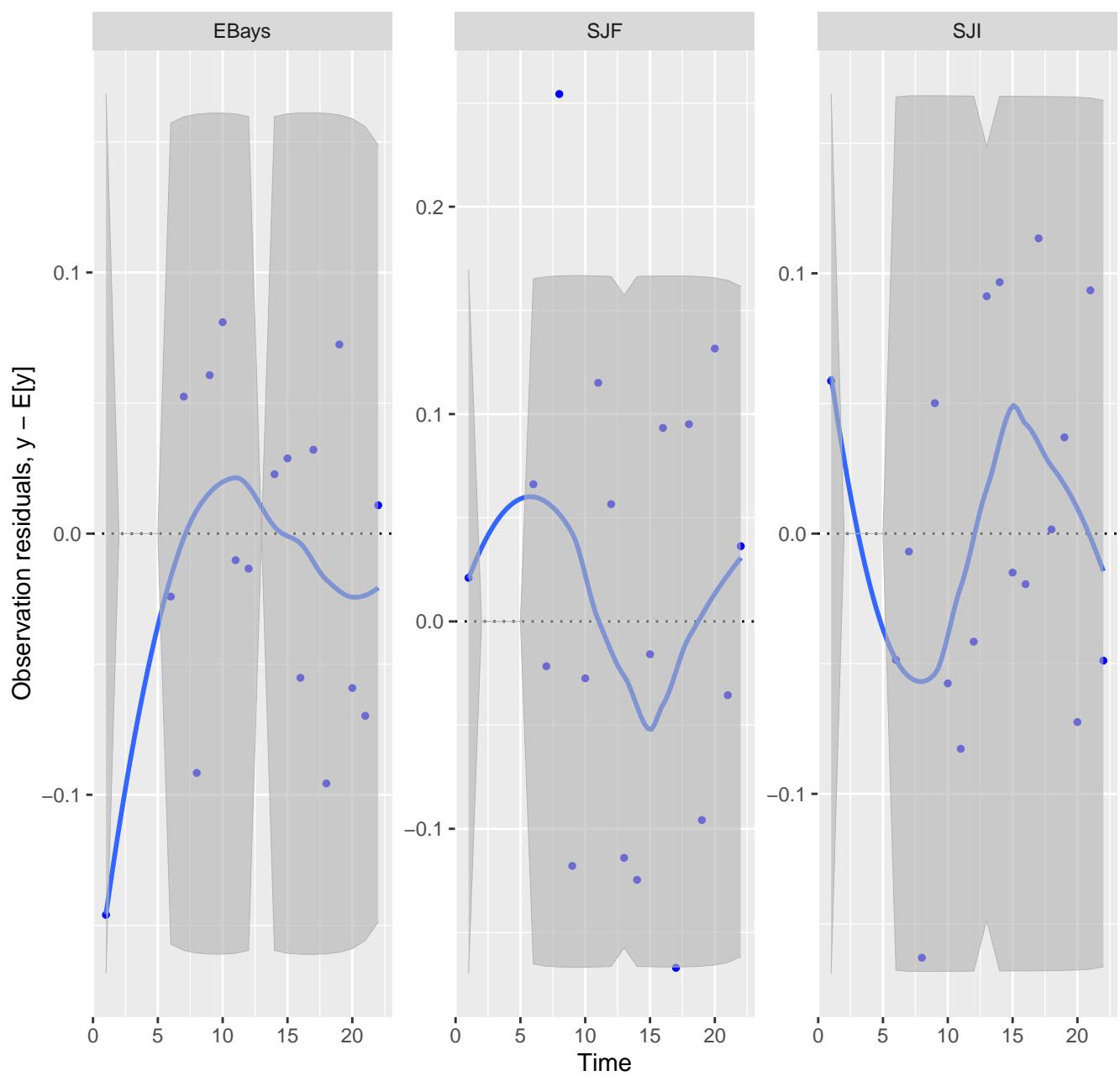
Model fitted Y + CI



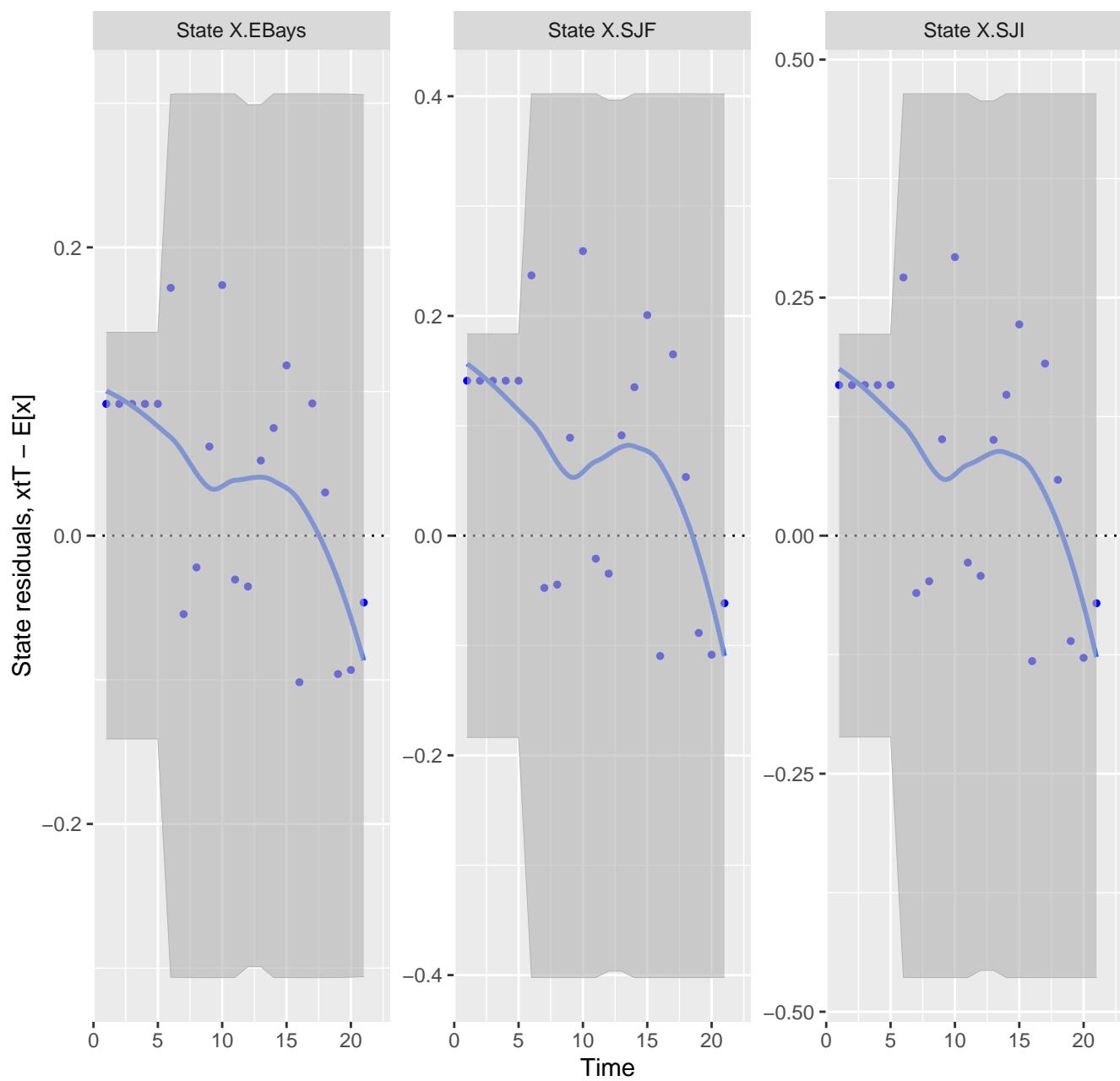
States



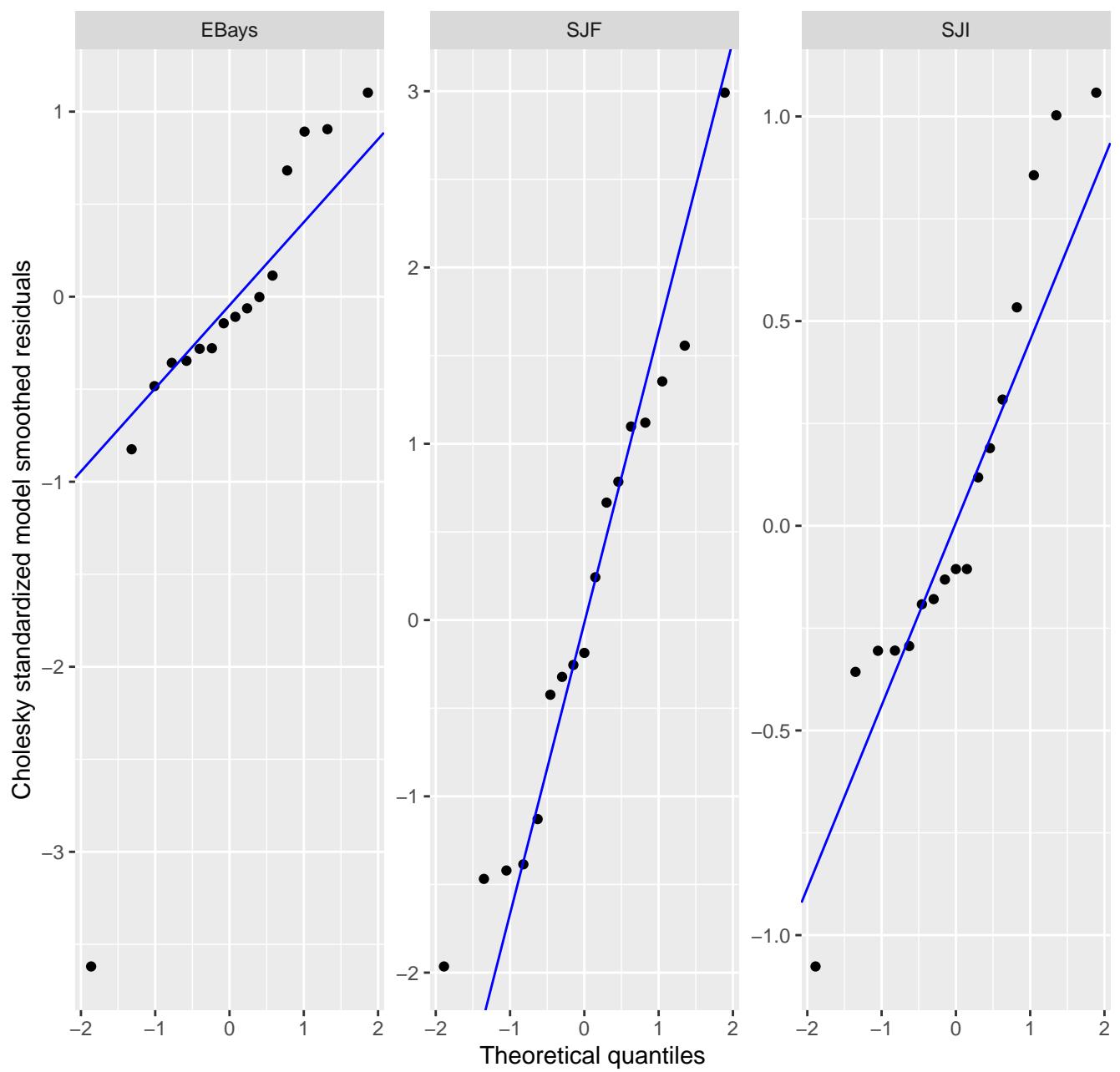
Model residuals



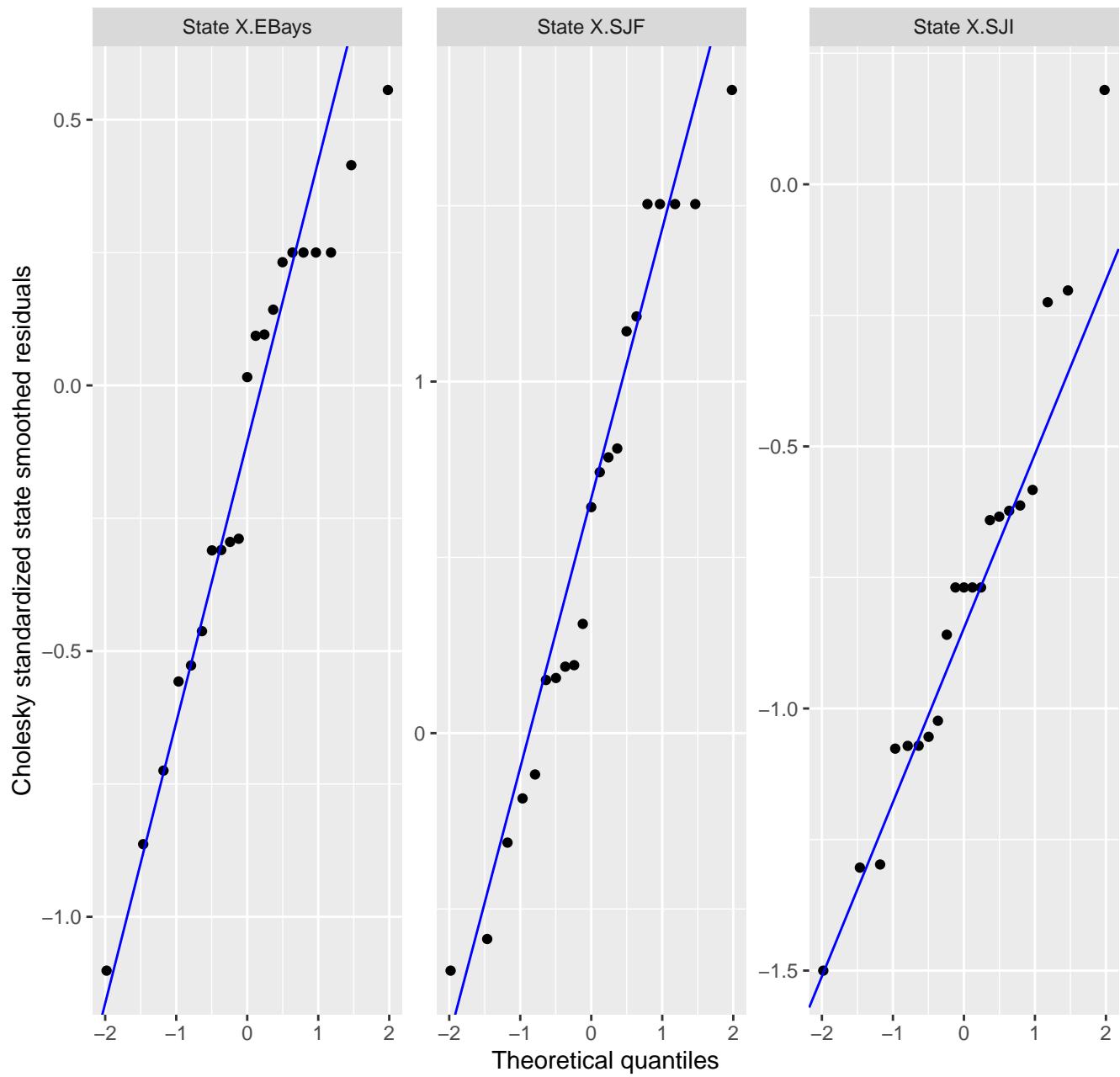
State residuals



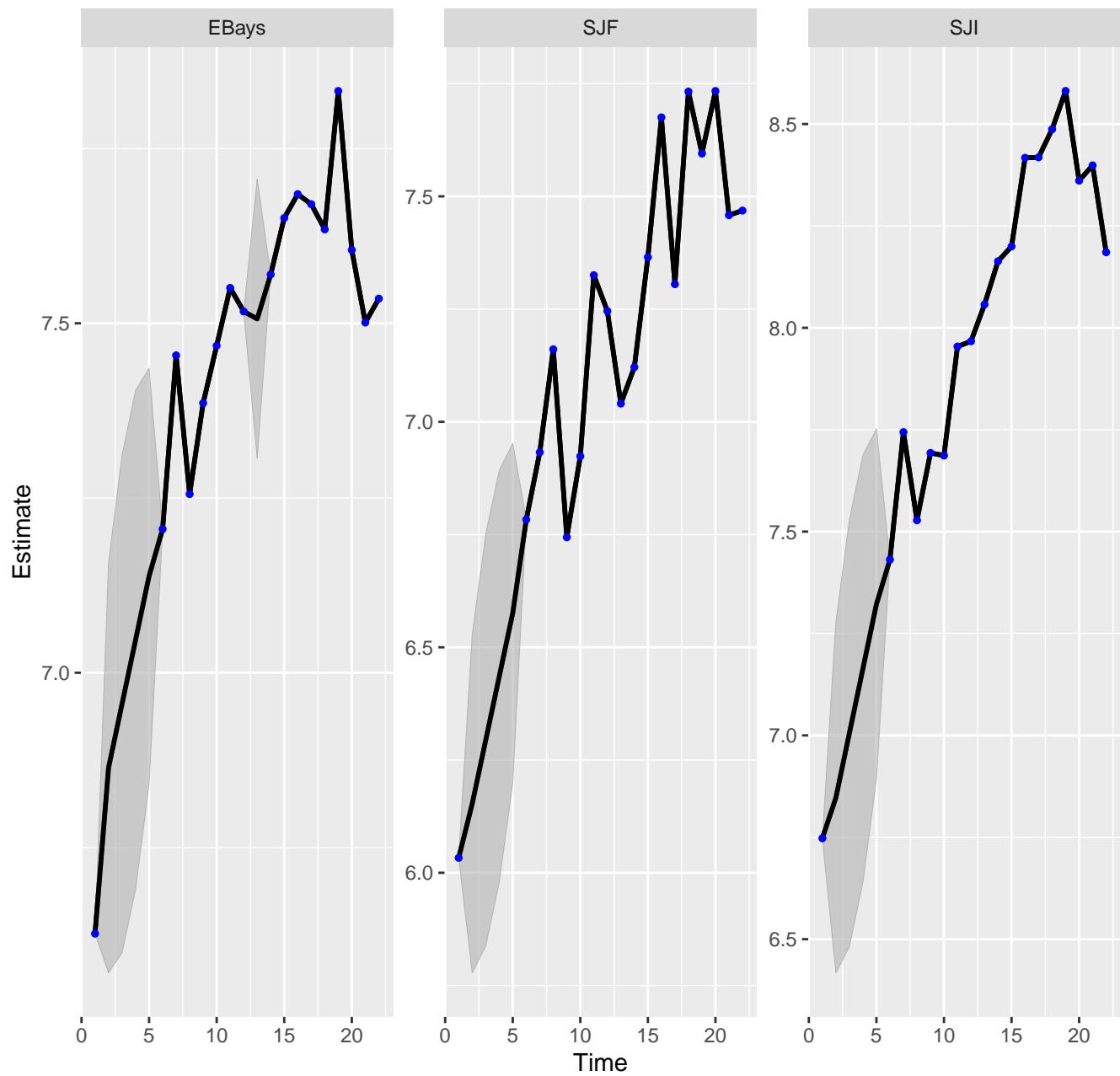
Model residuals normality test



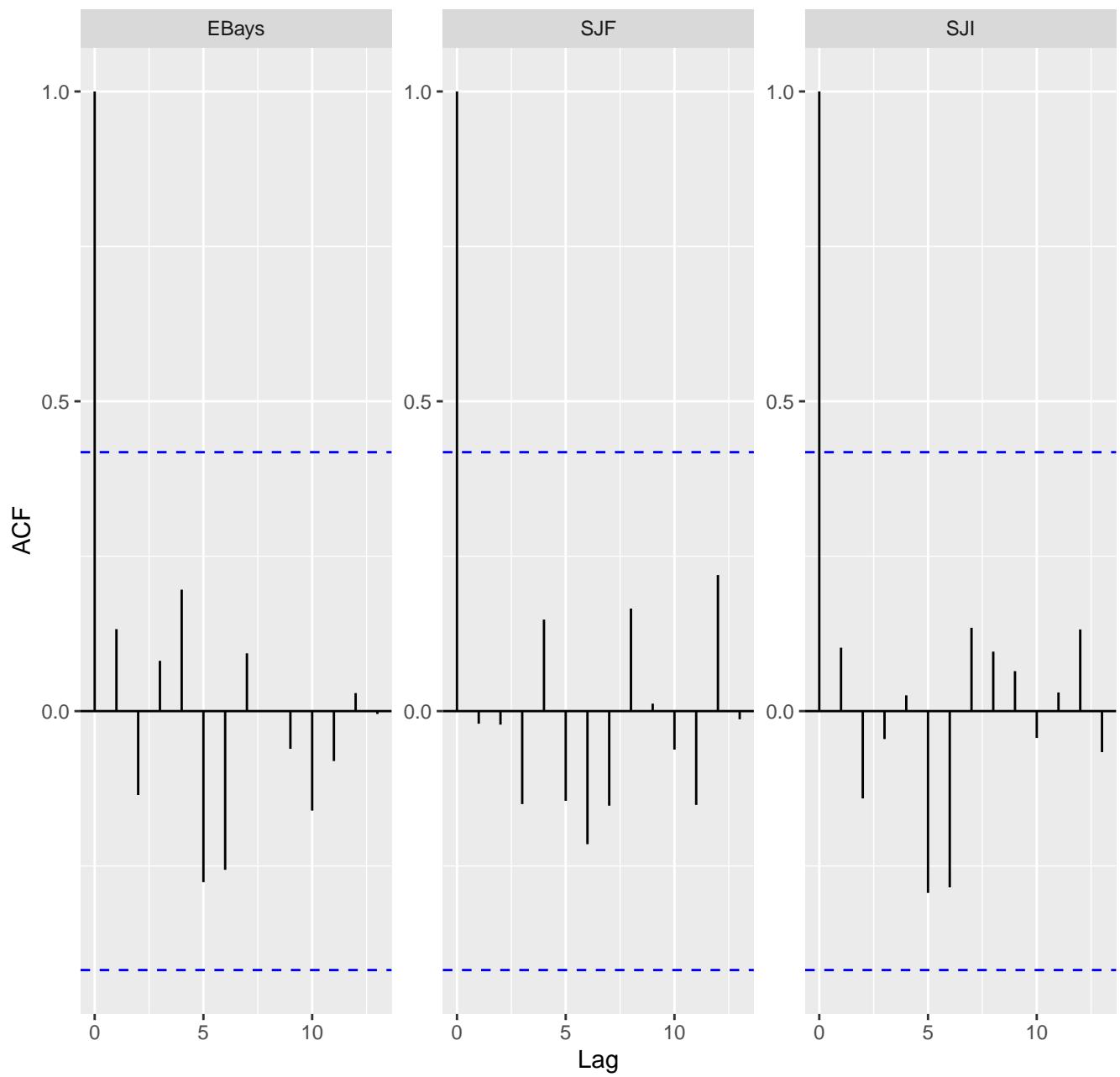
State residuals normality test

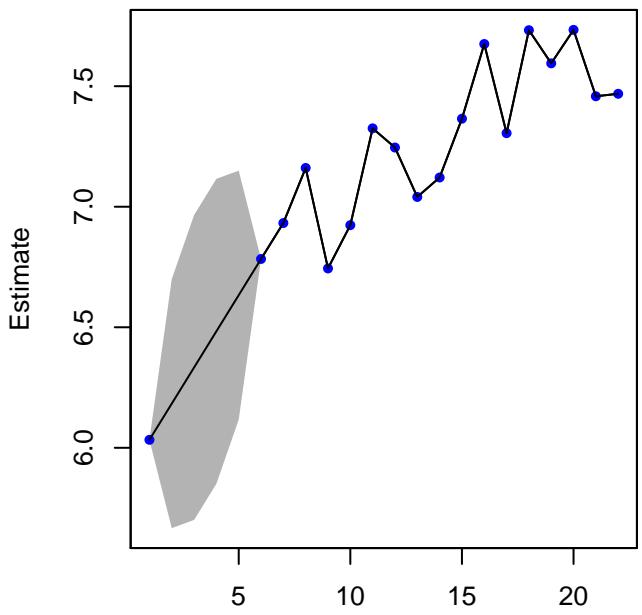
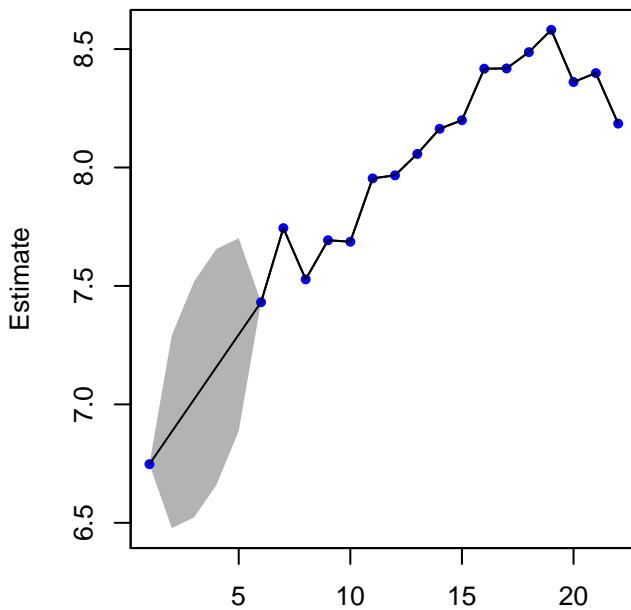
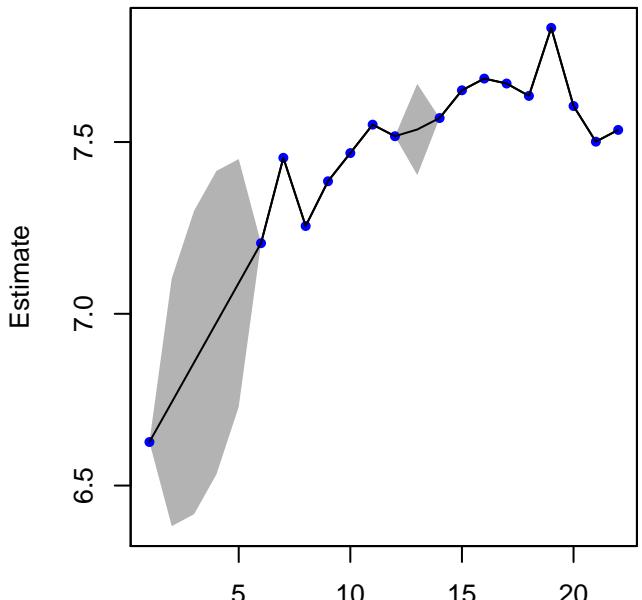


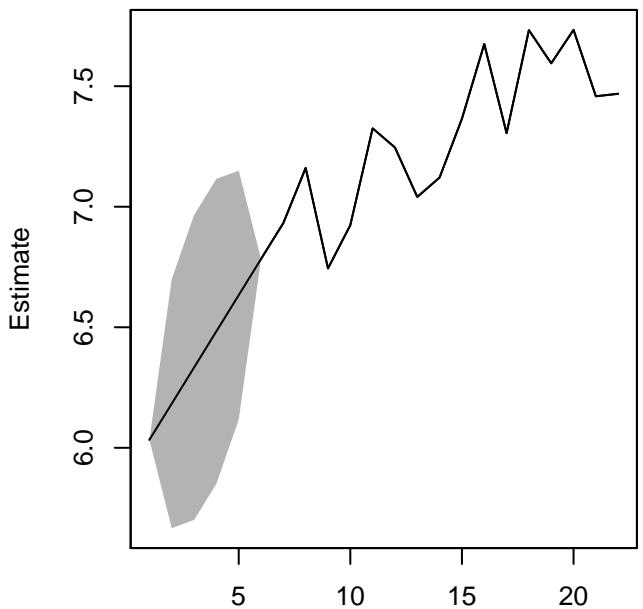
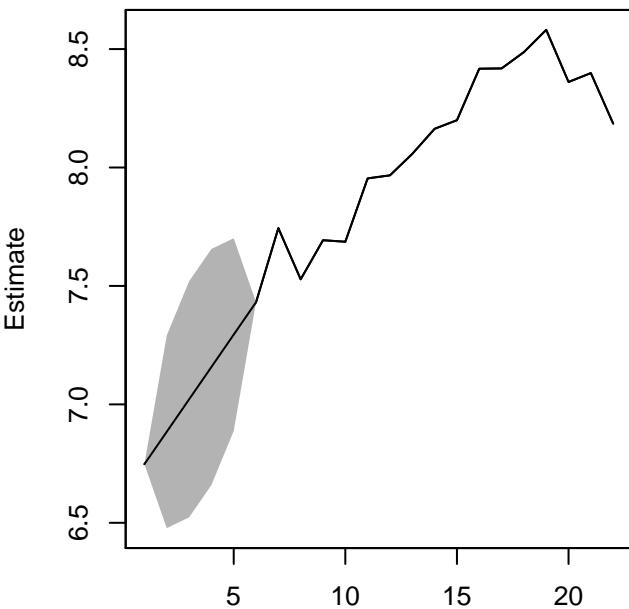
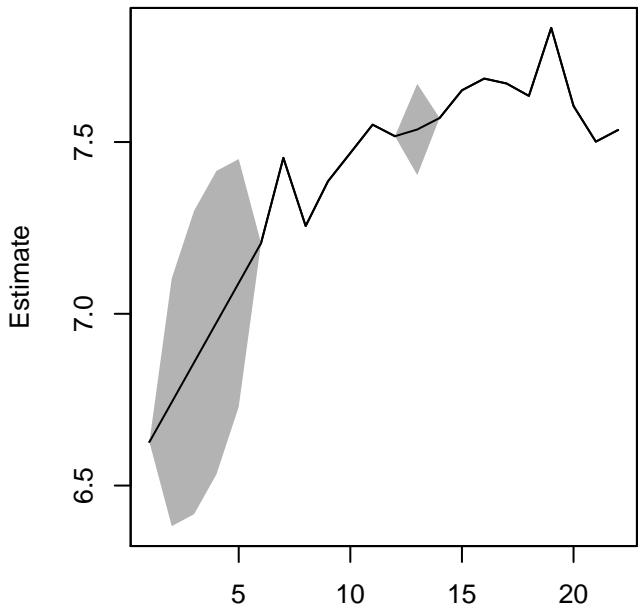
Expected value of Y conditioned on data



Model innovations residuals ACF

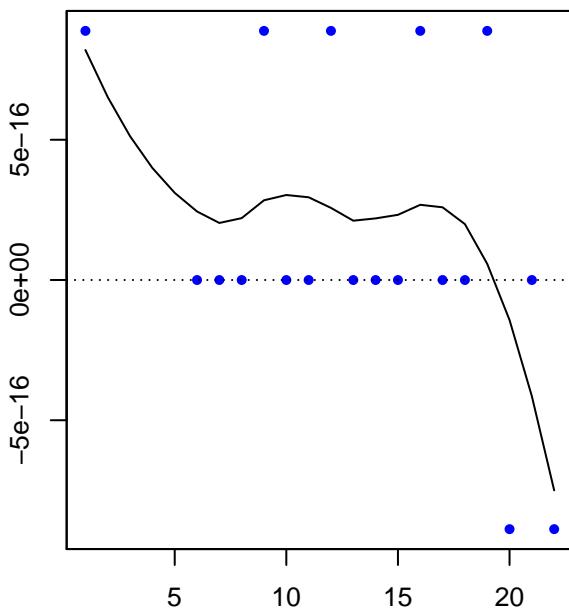


SJF + CI**SJI + CI****EBays + CI**

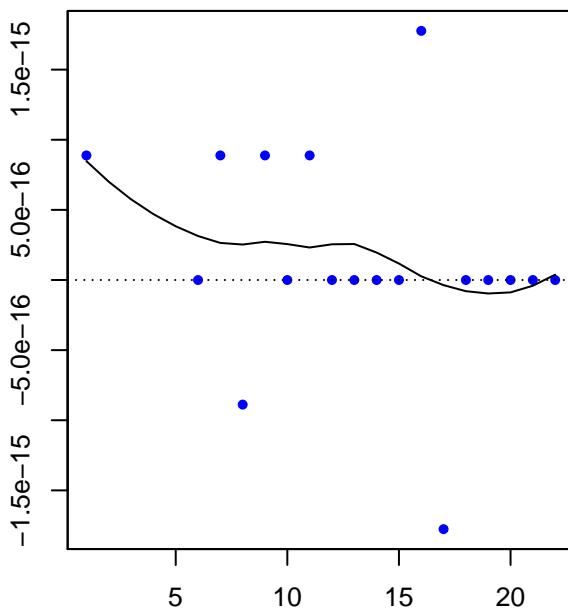
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

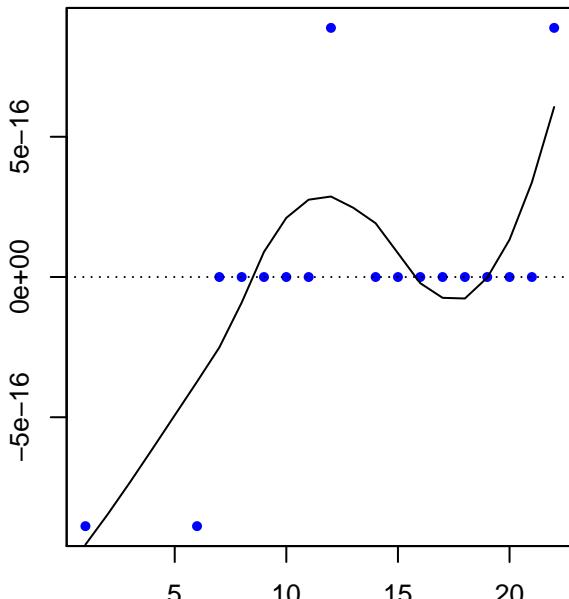
SJF



SJI

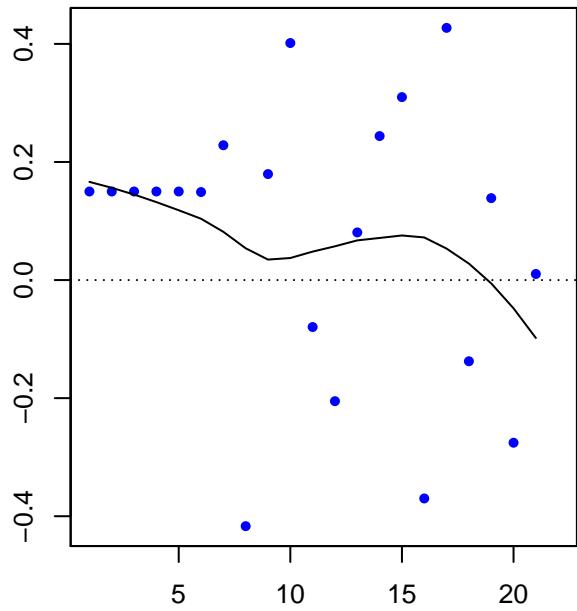


EBays

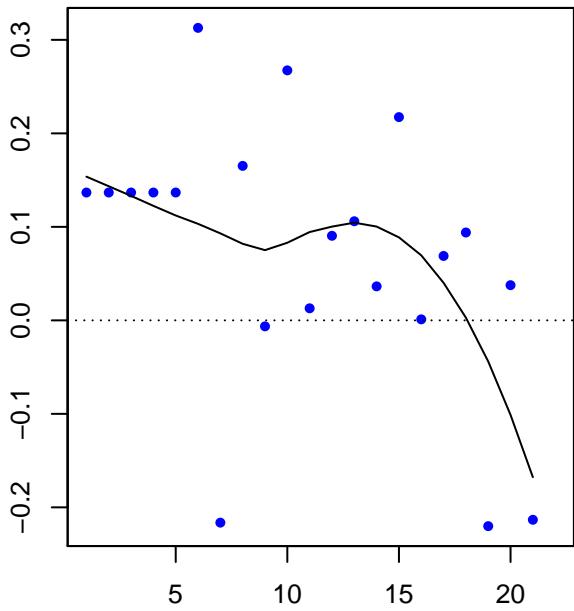


State residuals, $x_{tT} - E[x]$

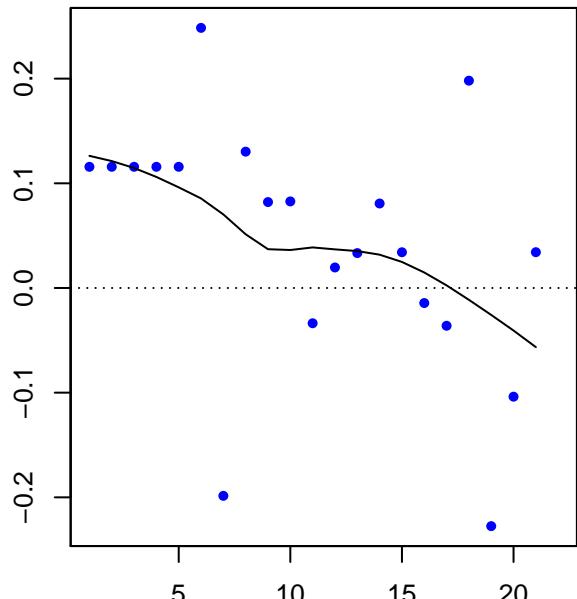
State X.SJF

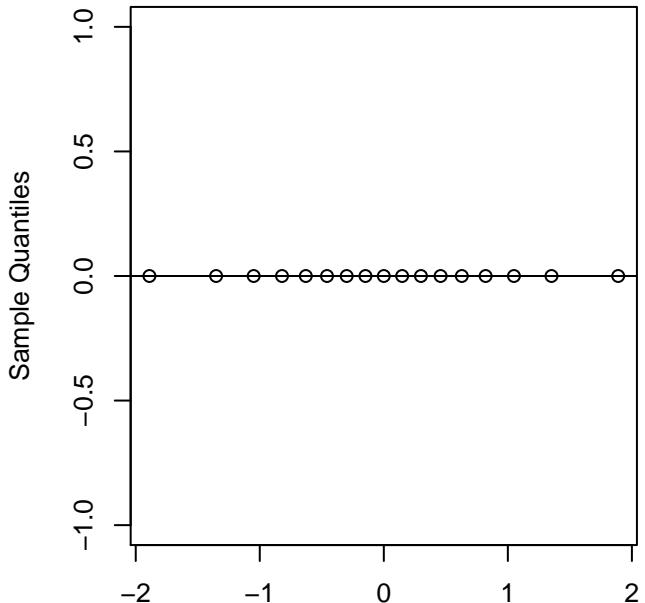
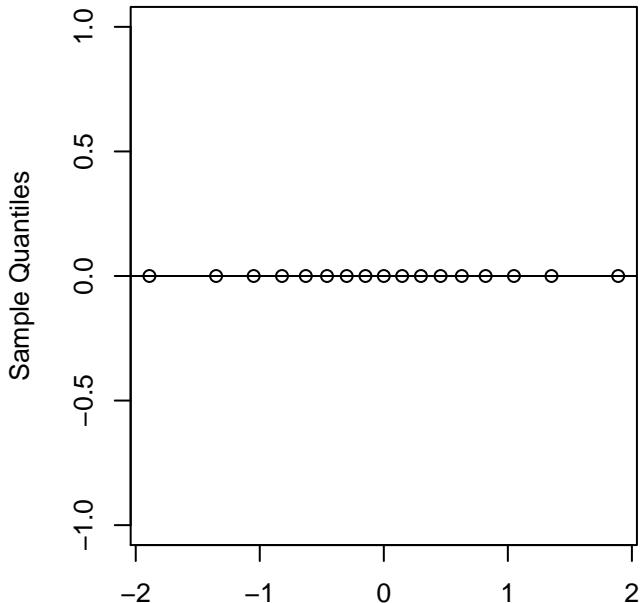
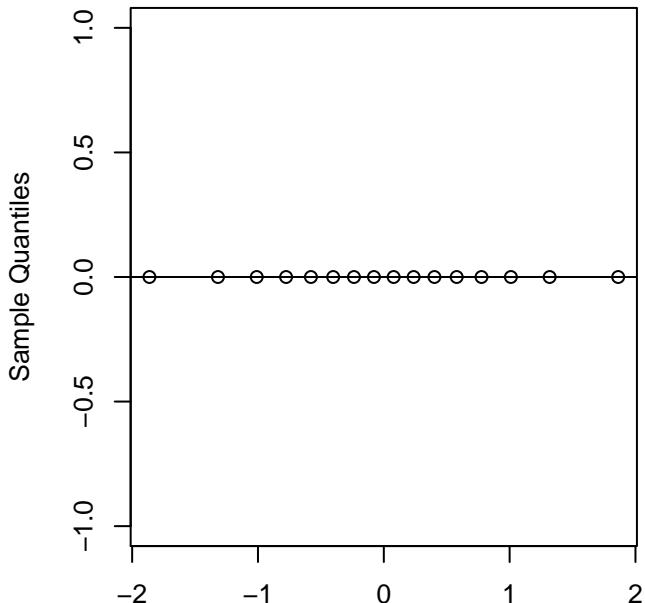


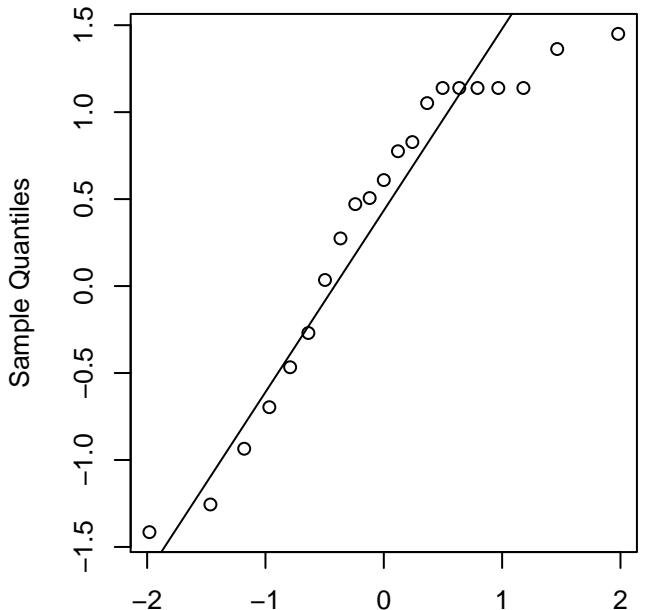
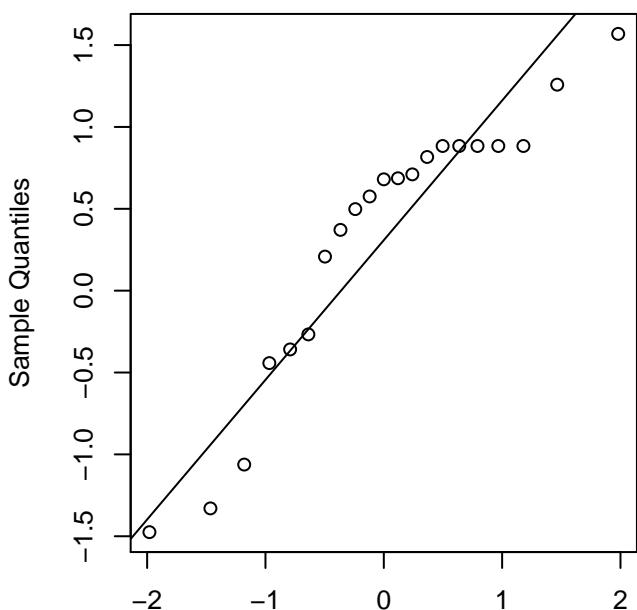
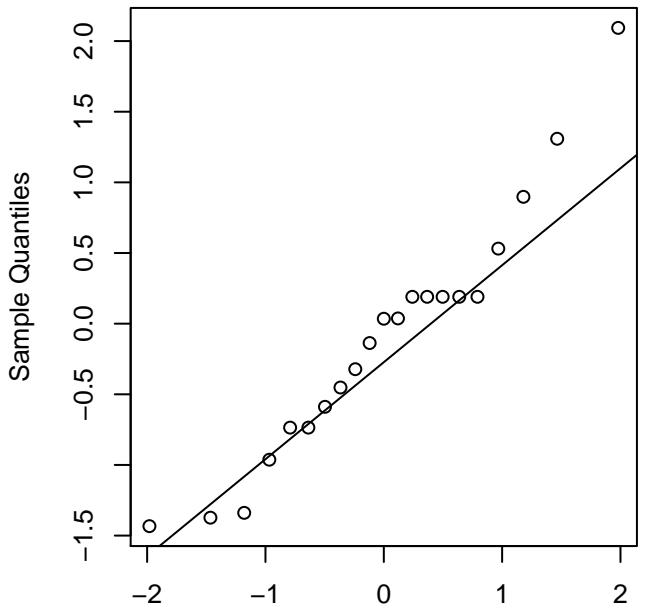
State X.SJI

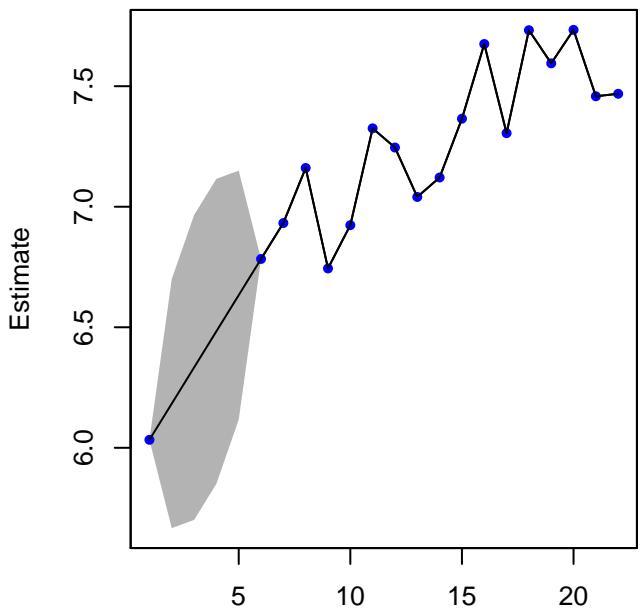
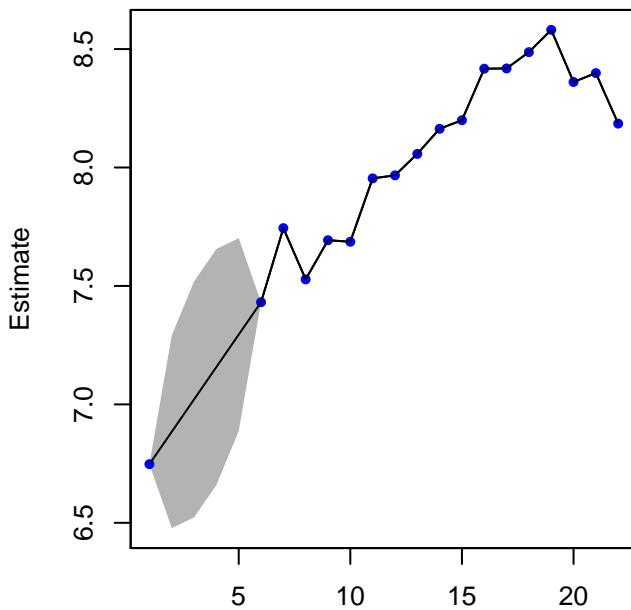
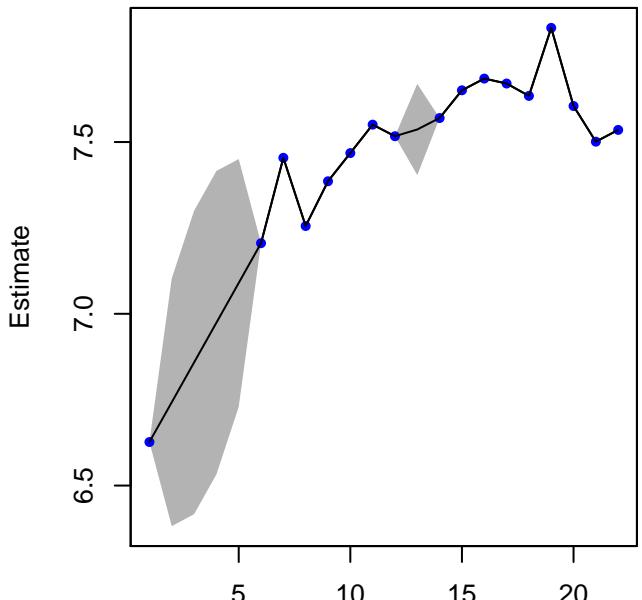


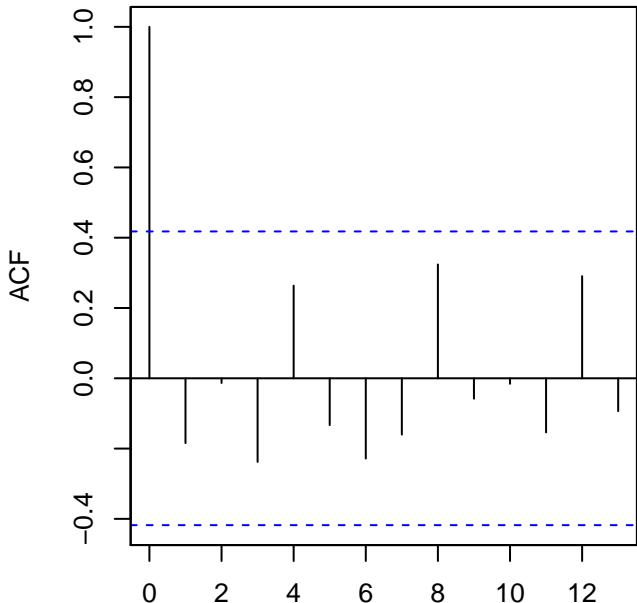
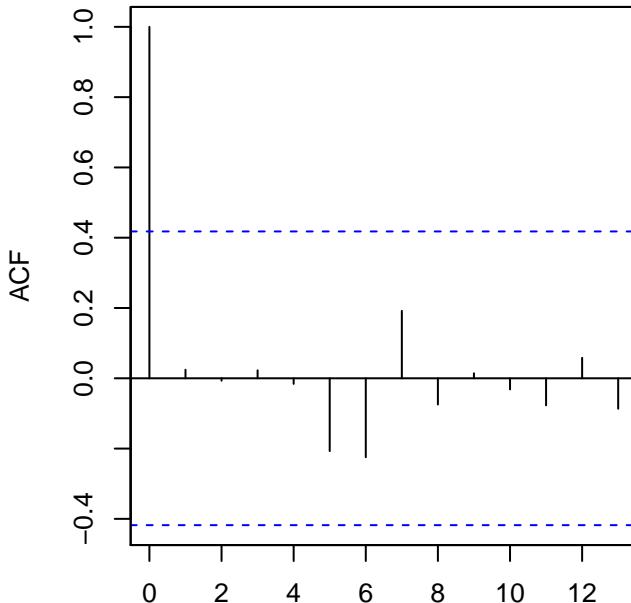
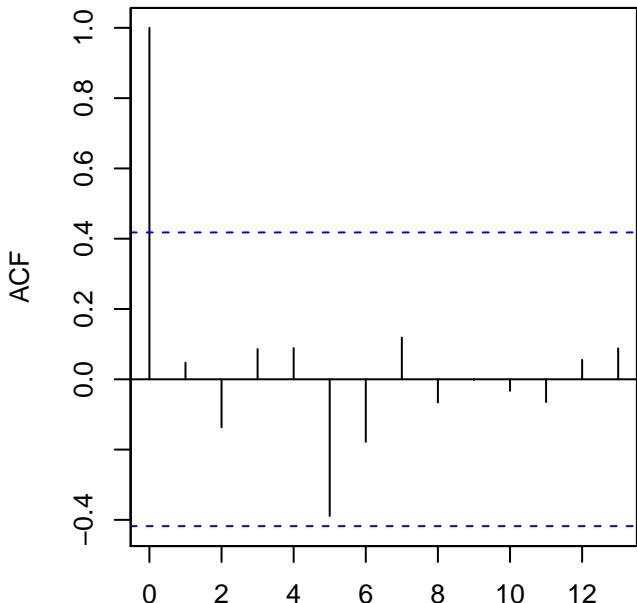
State X.EBays



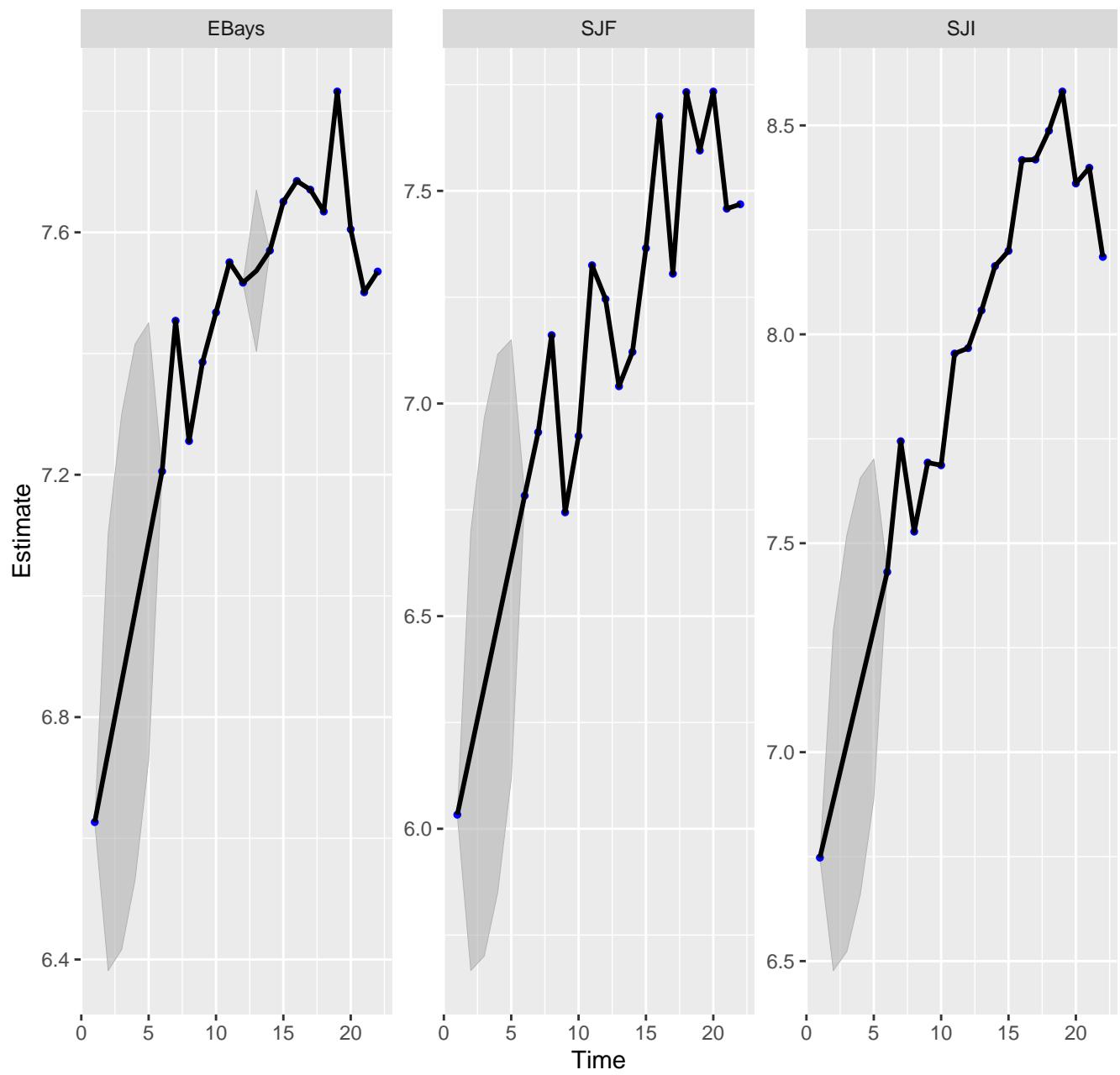
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

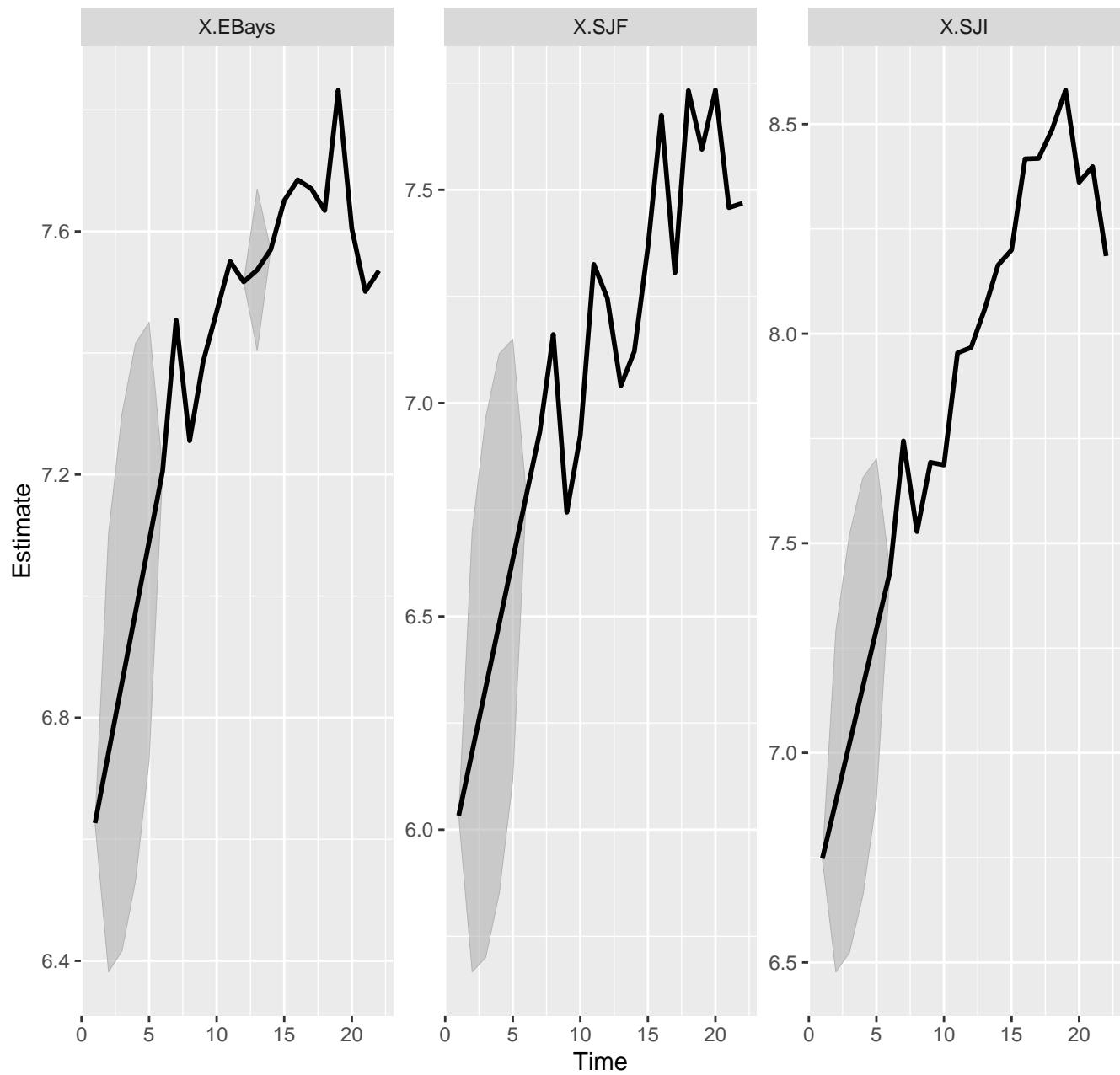
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

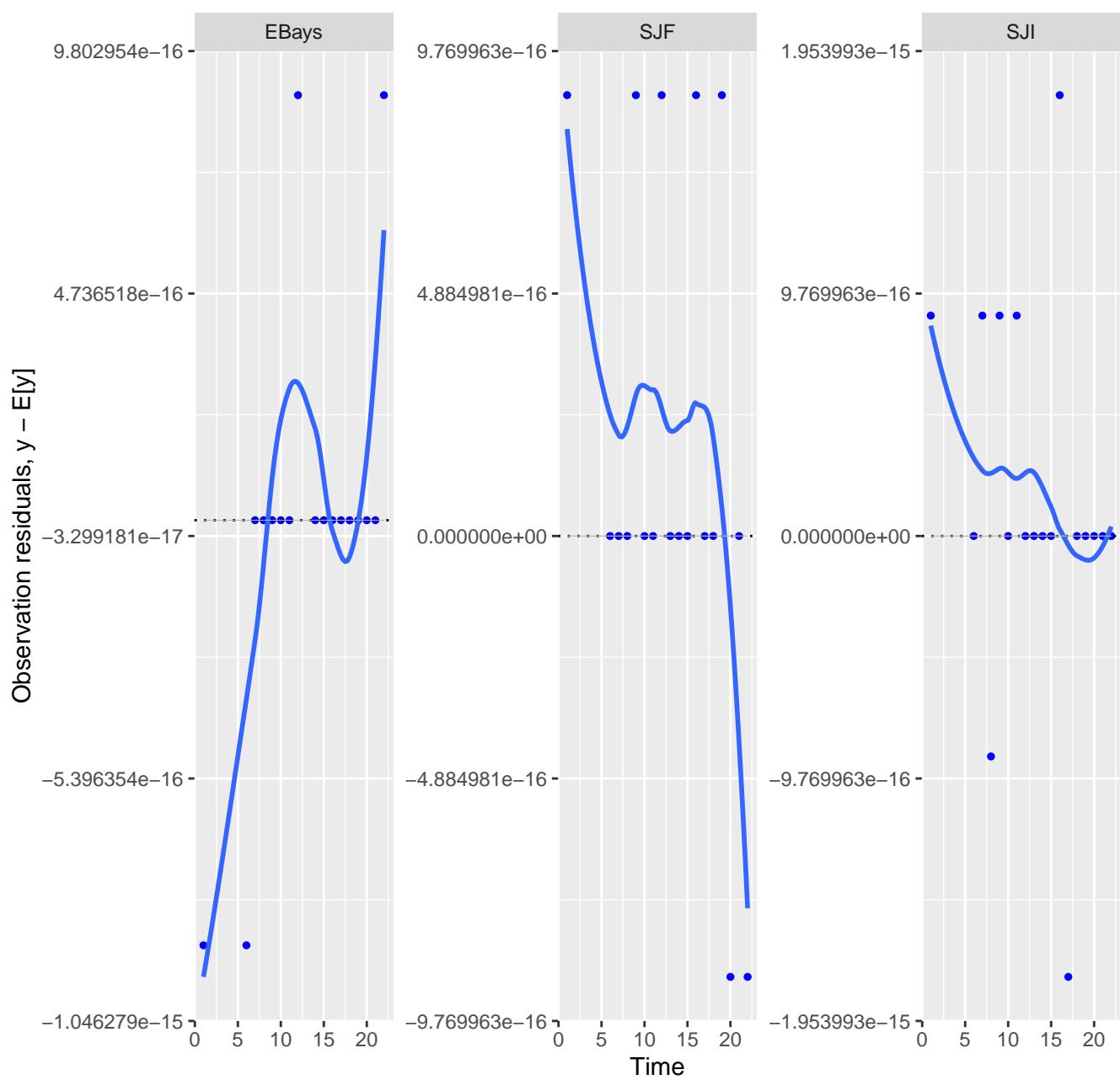
Model fitted Y + CI



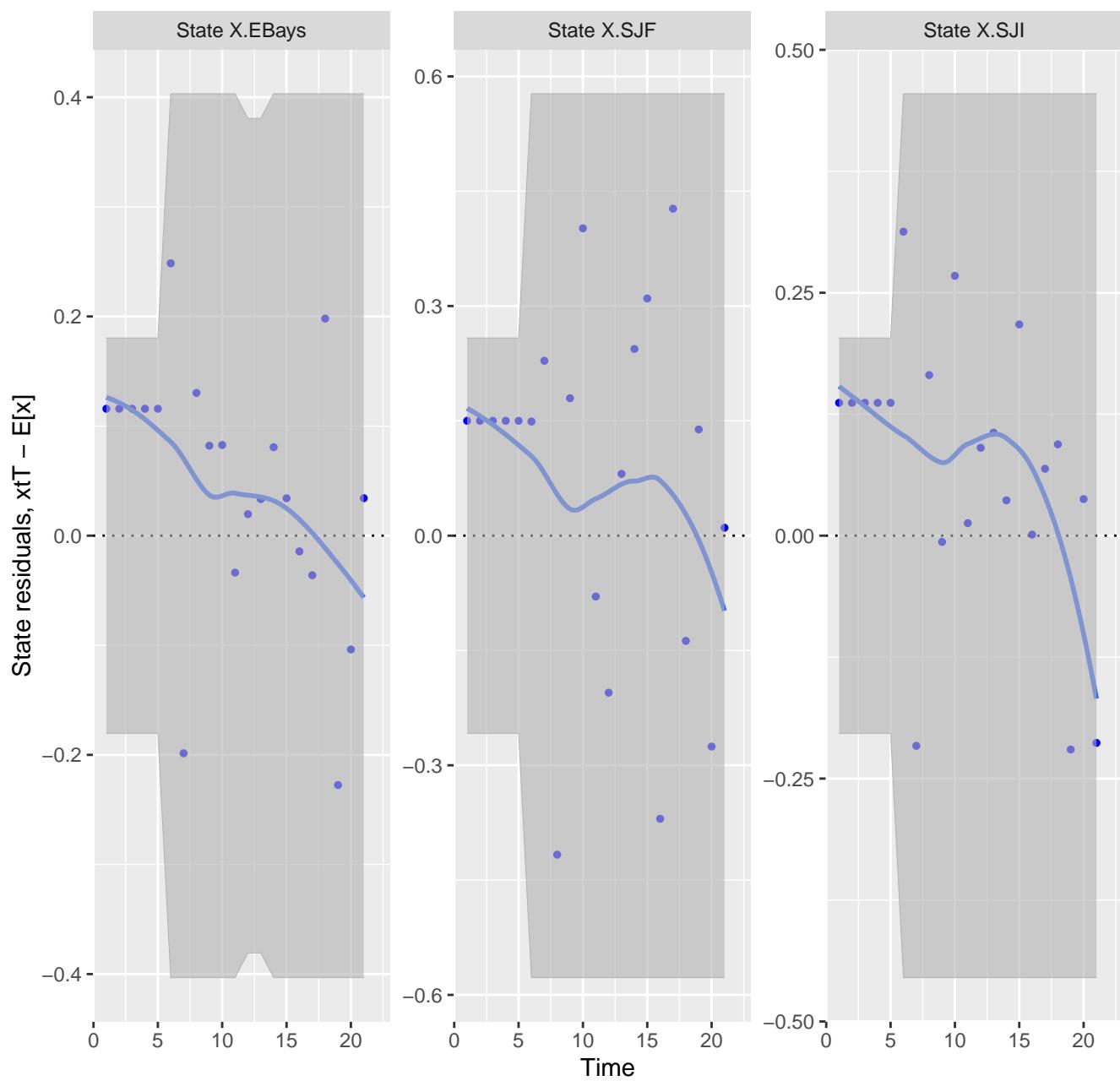
States



Model residuals

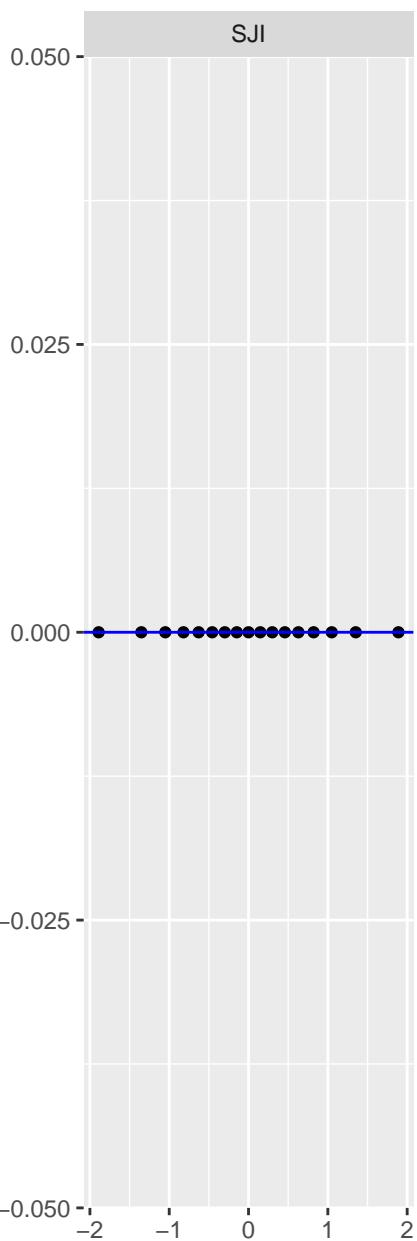
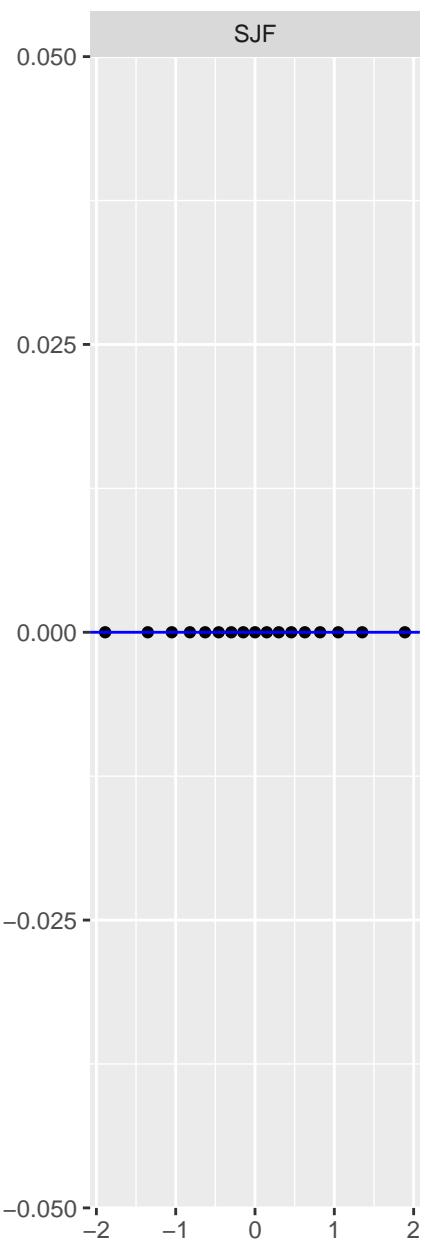
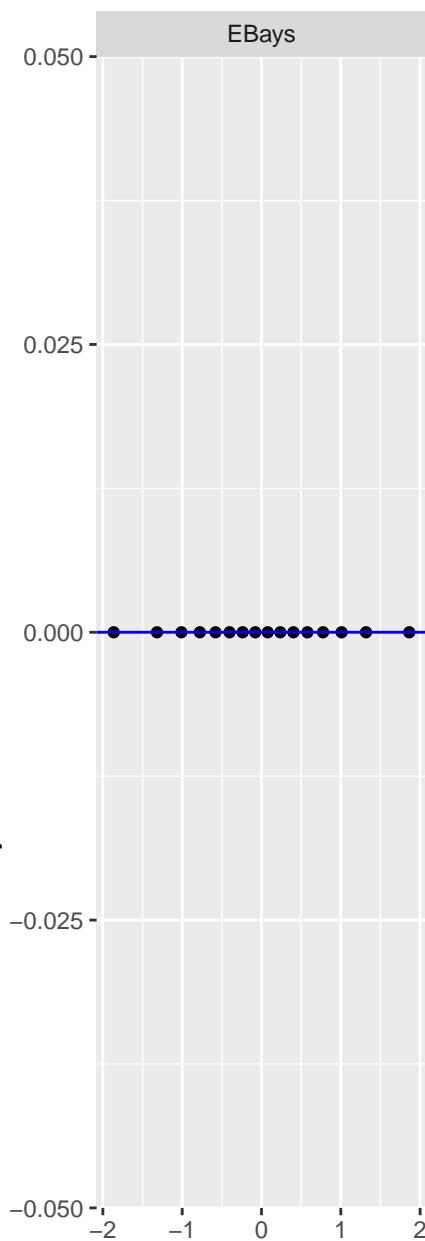


State residuals



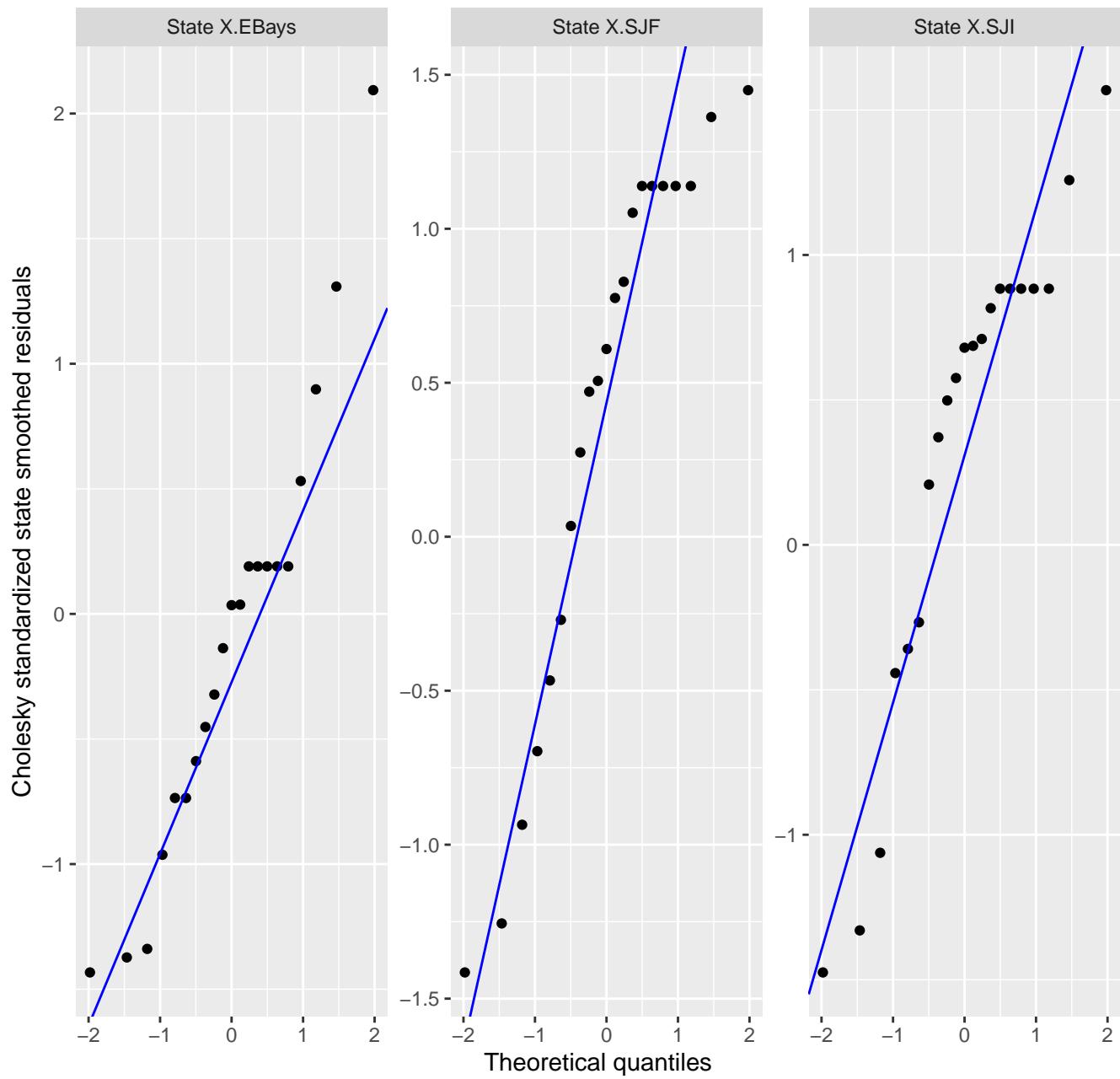
Model residuals normality test

Cholesky standardized model smoothed residuals

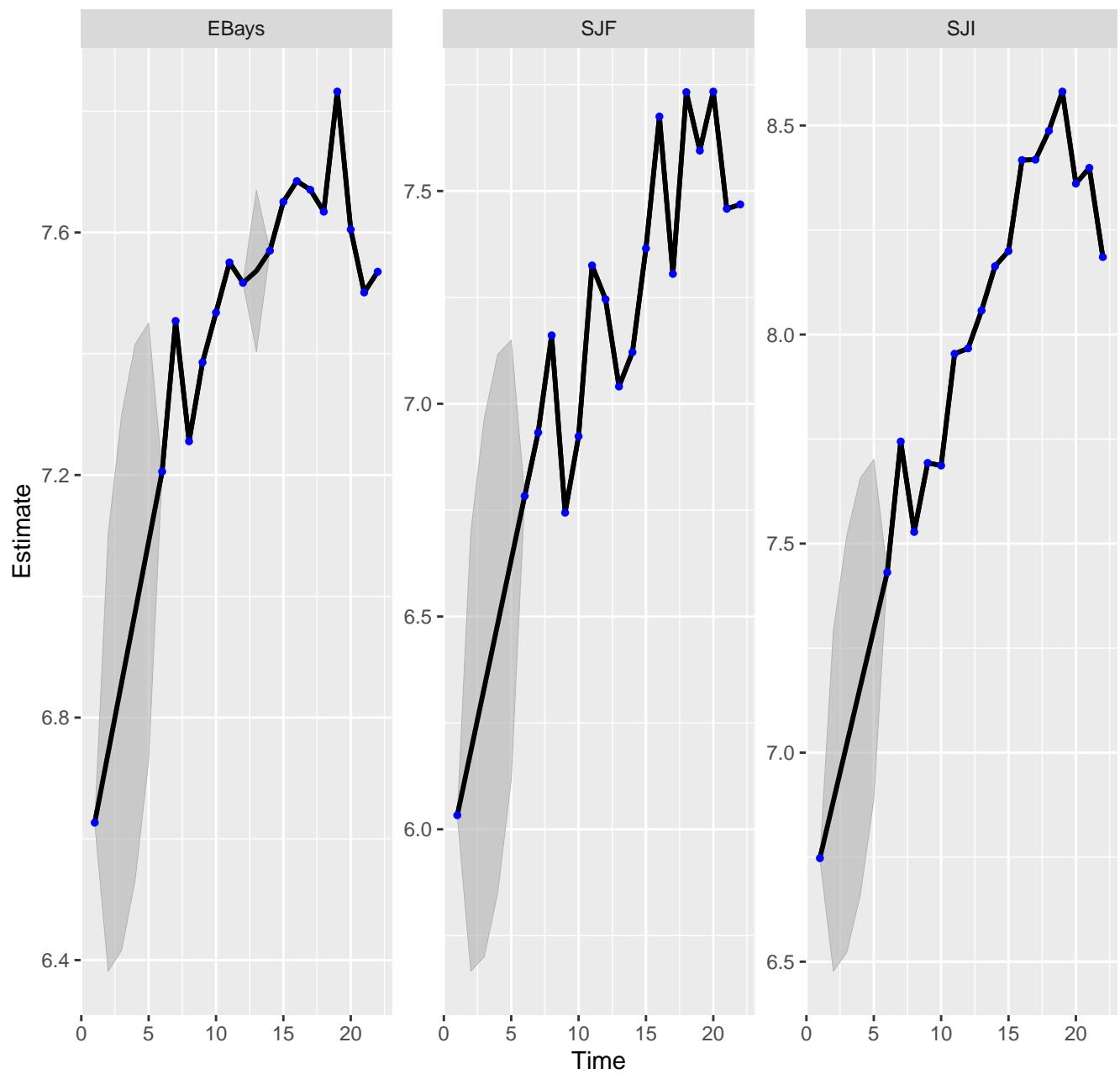


Theoretical quantiles

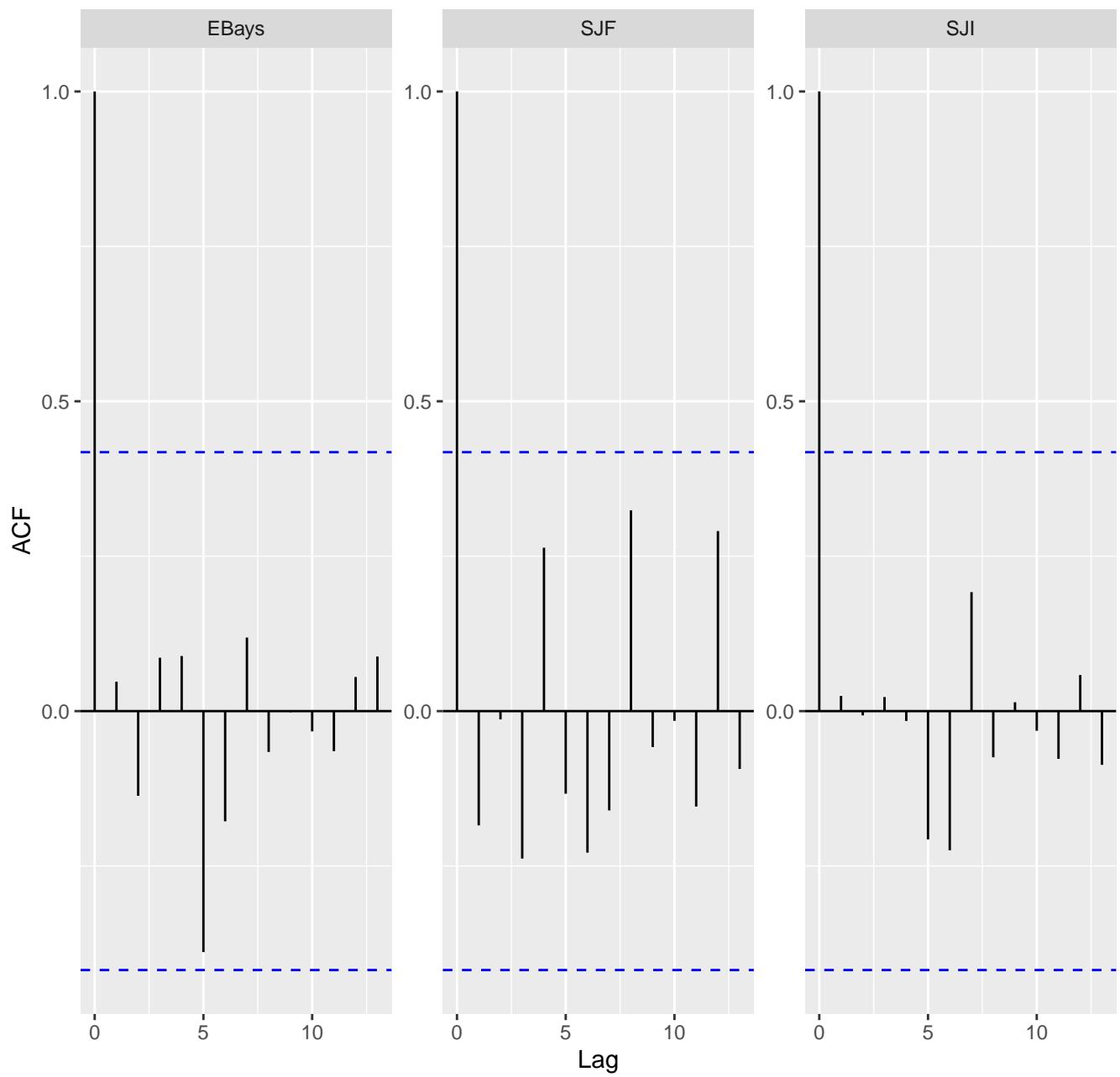
State residuals normality test

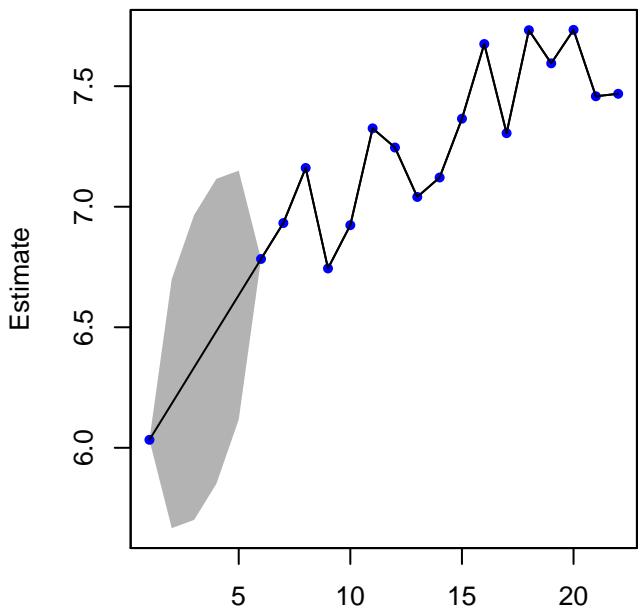
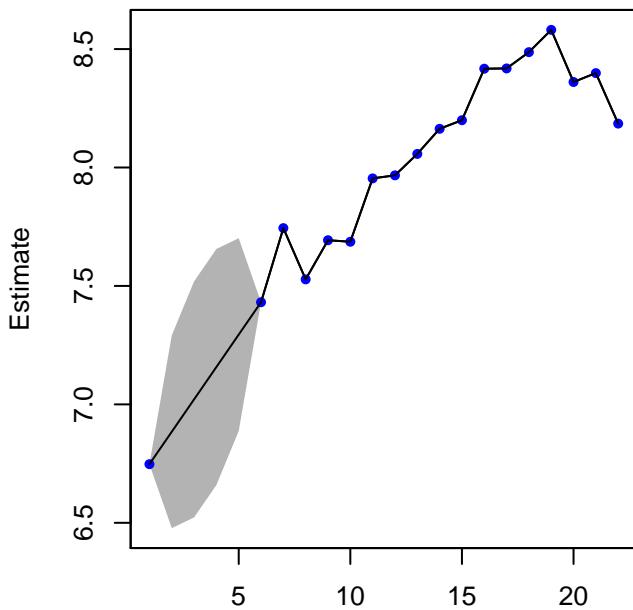
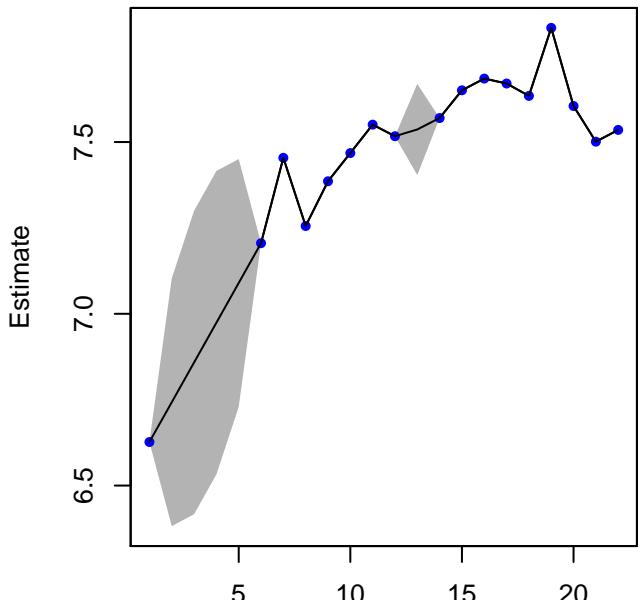


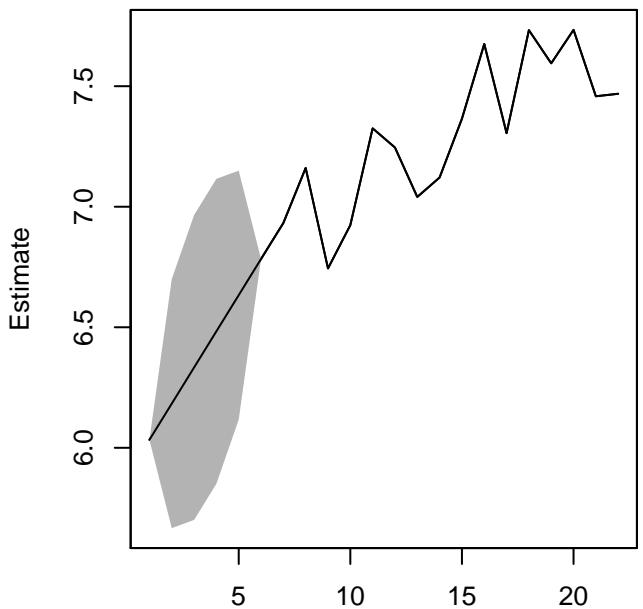
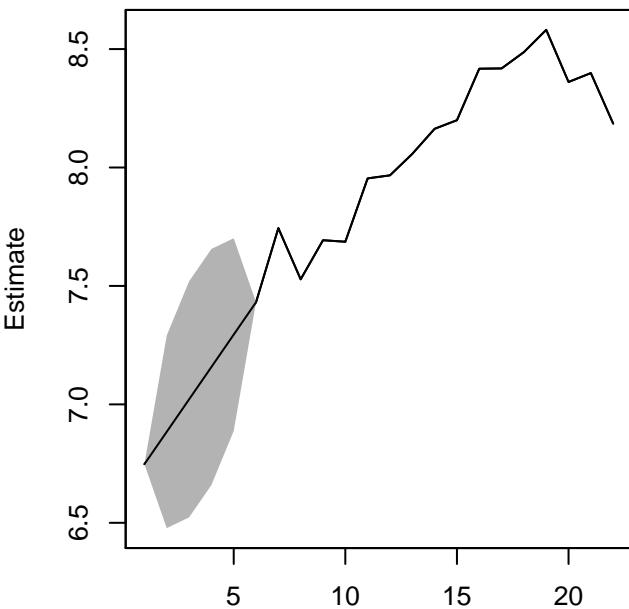
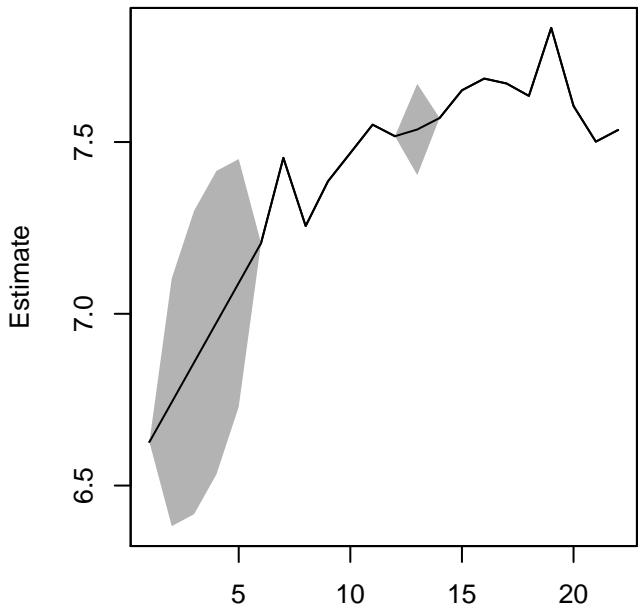
Expected value of Y conditioned on data



Model innovations residuals ACF

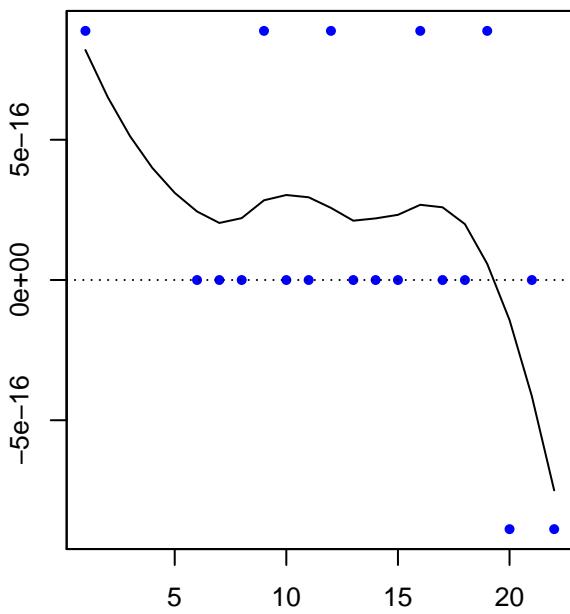


SJF + CI**SJI + CI****EBays + CI**

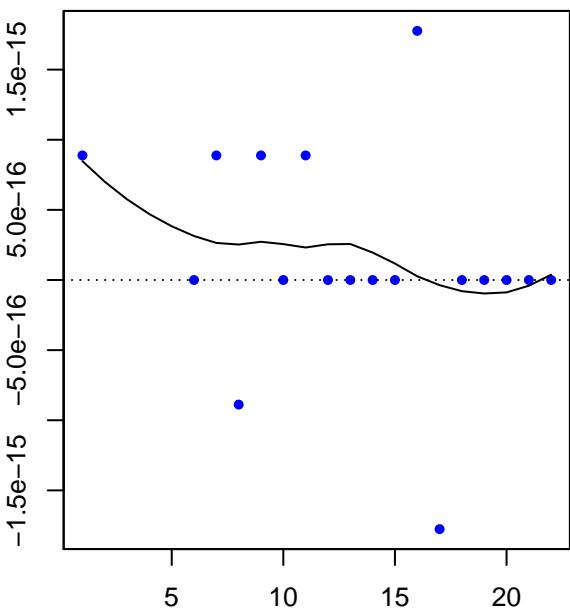
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

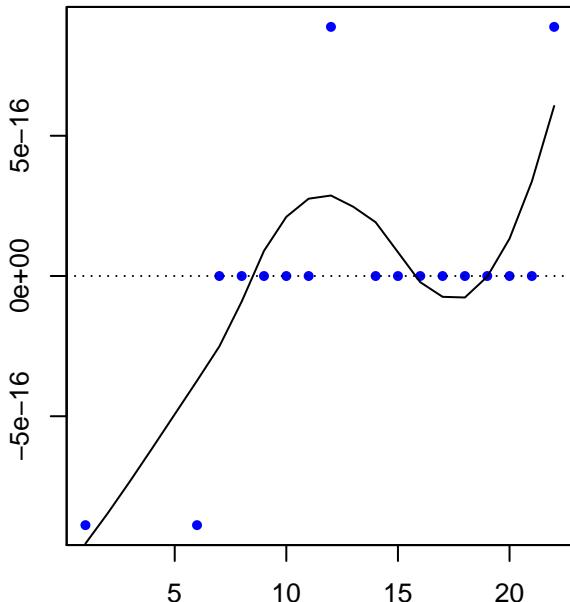
SJF



SJI

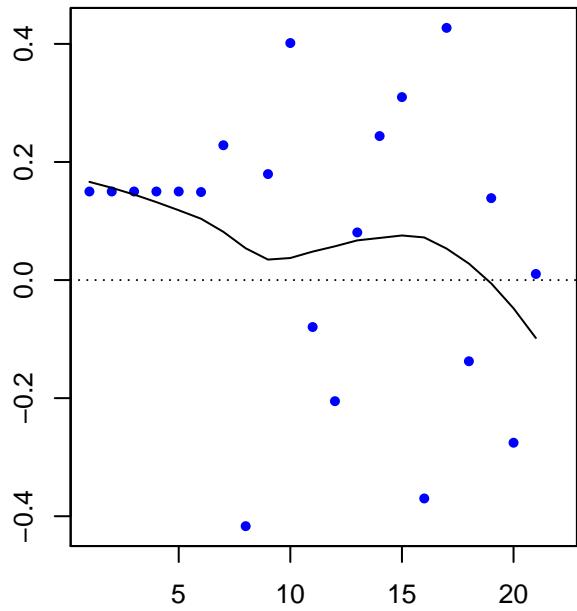


EBays

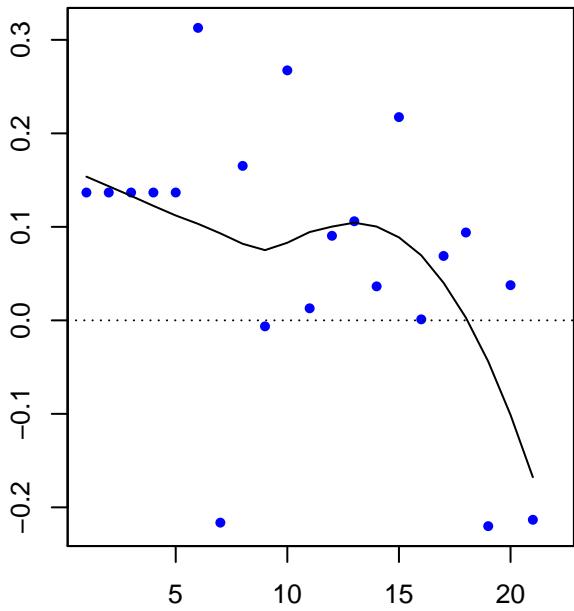


State residuals, $x_{tT} - E[x]$

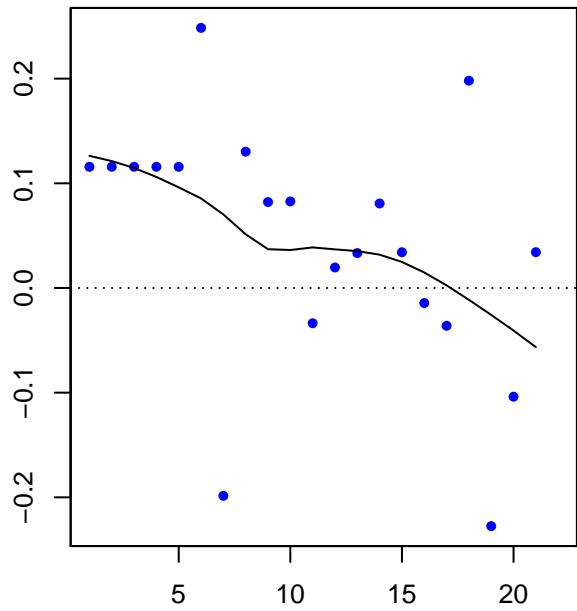
State X.SJF

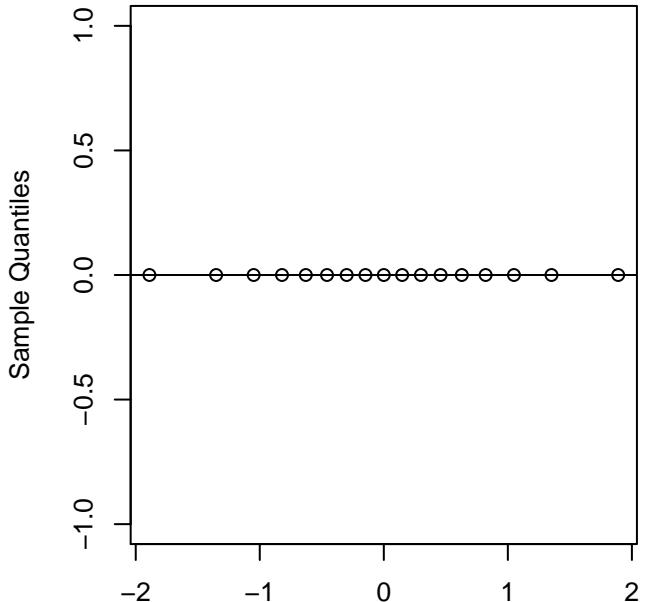
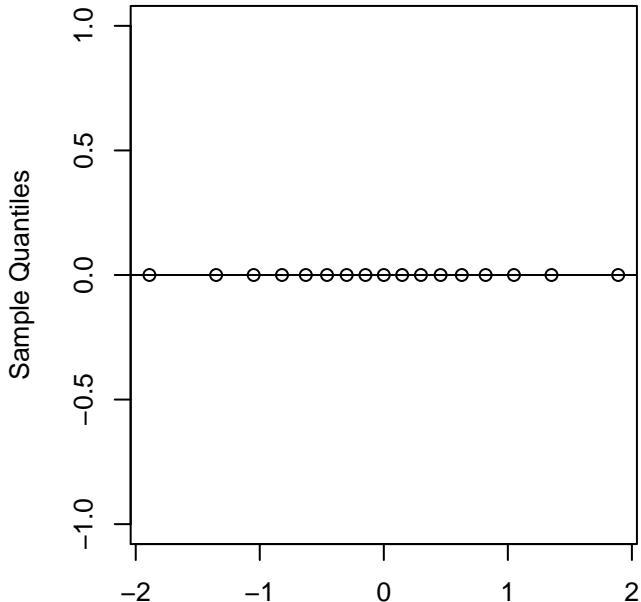
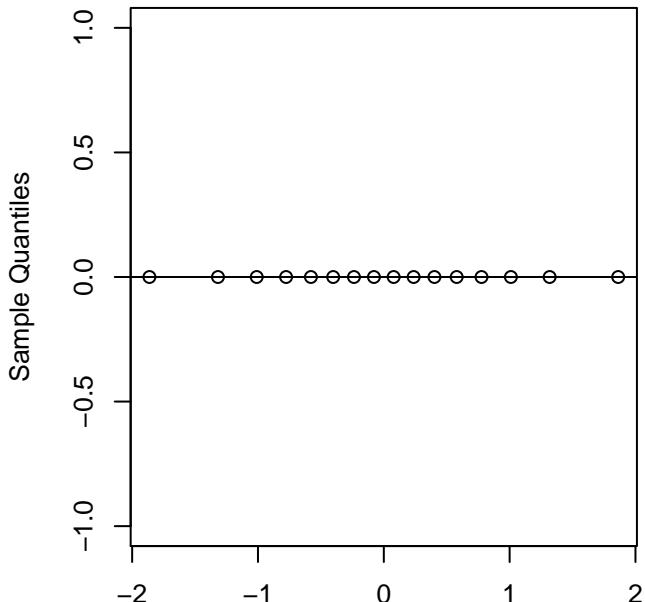


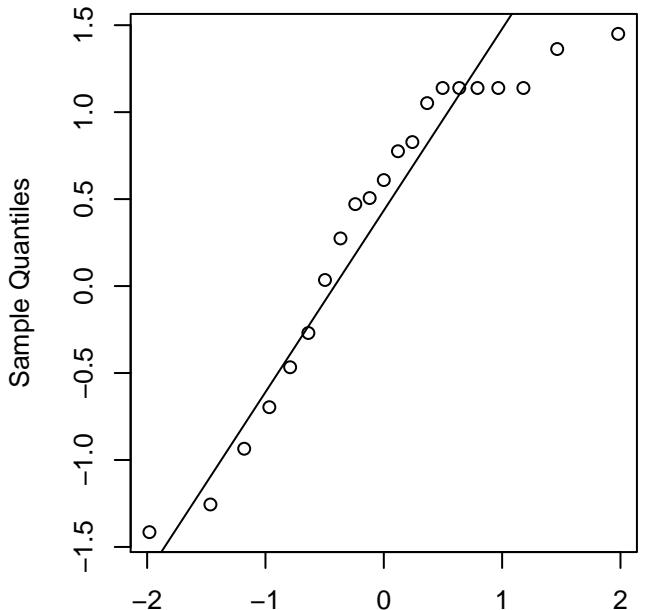
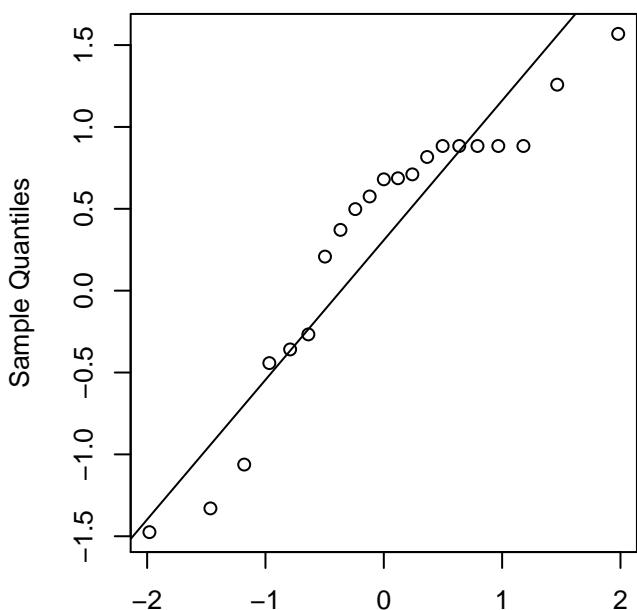
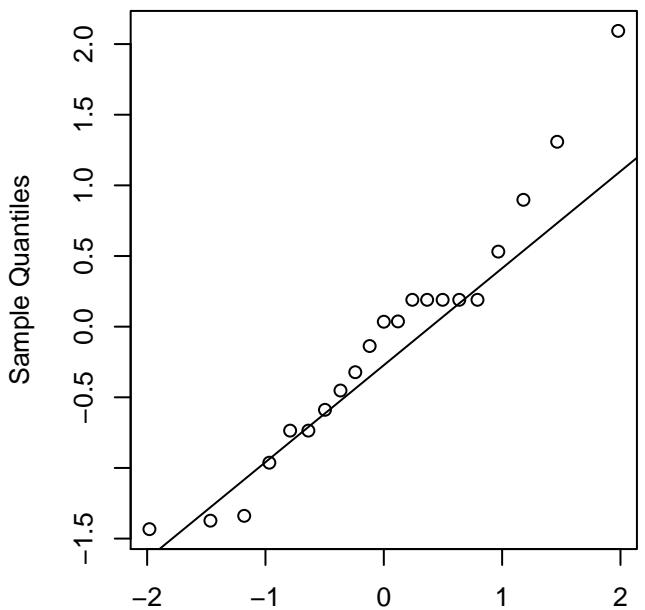
State X.SJI

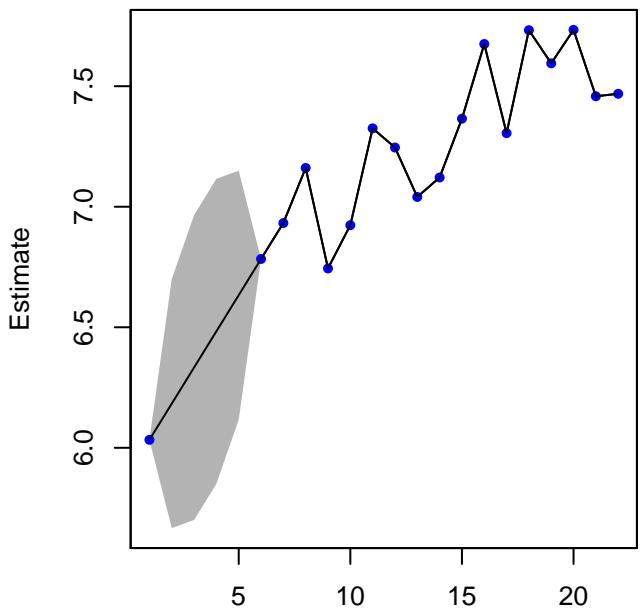
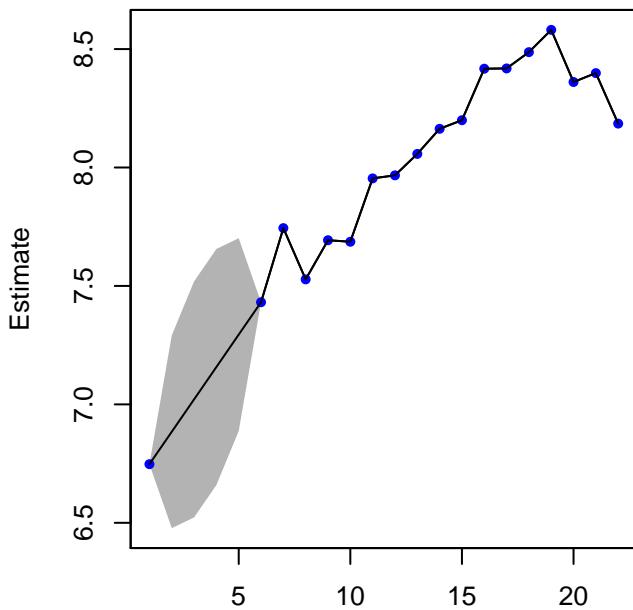
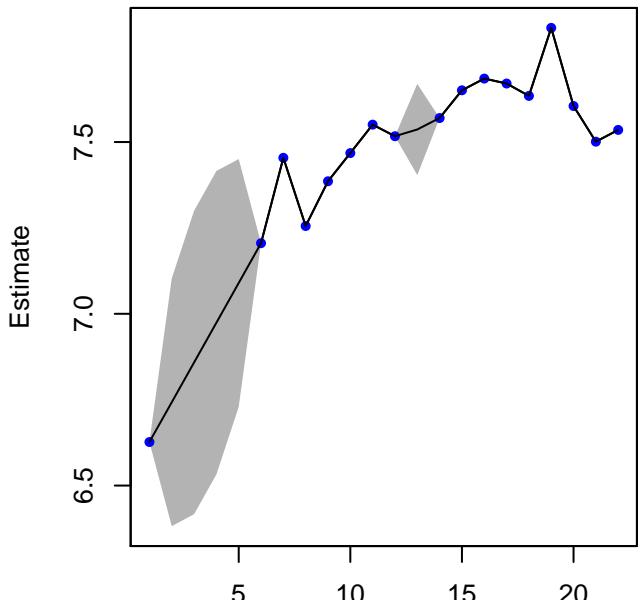


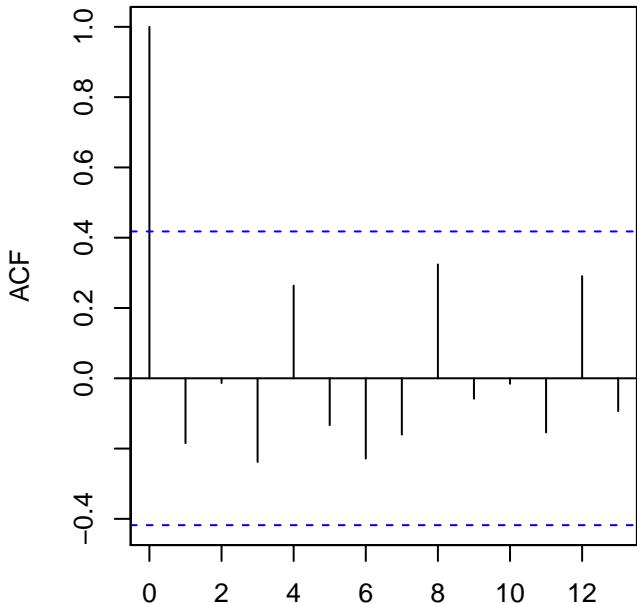
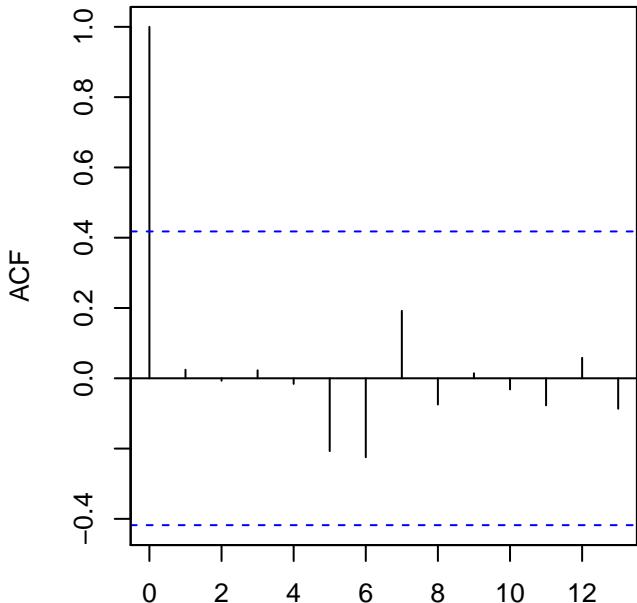
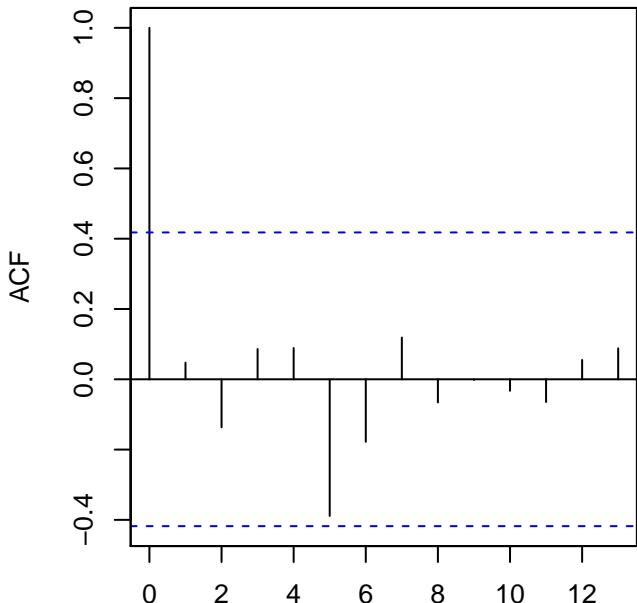
State X.EBays



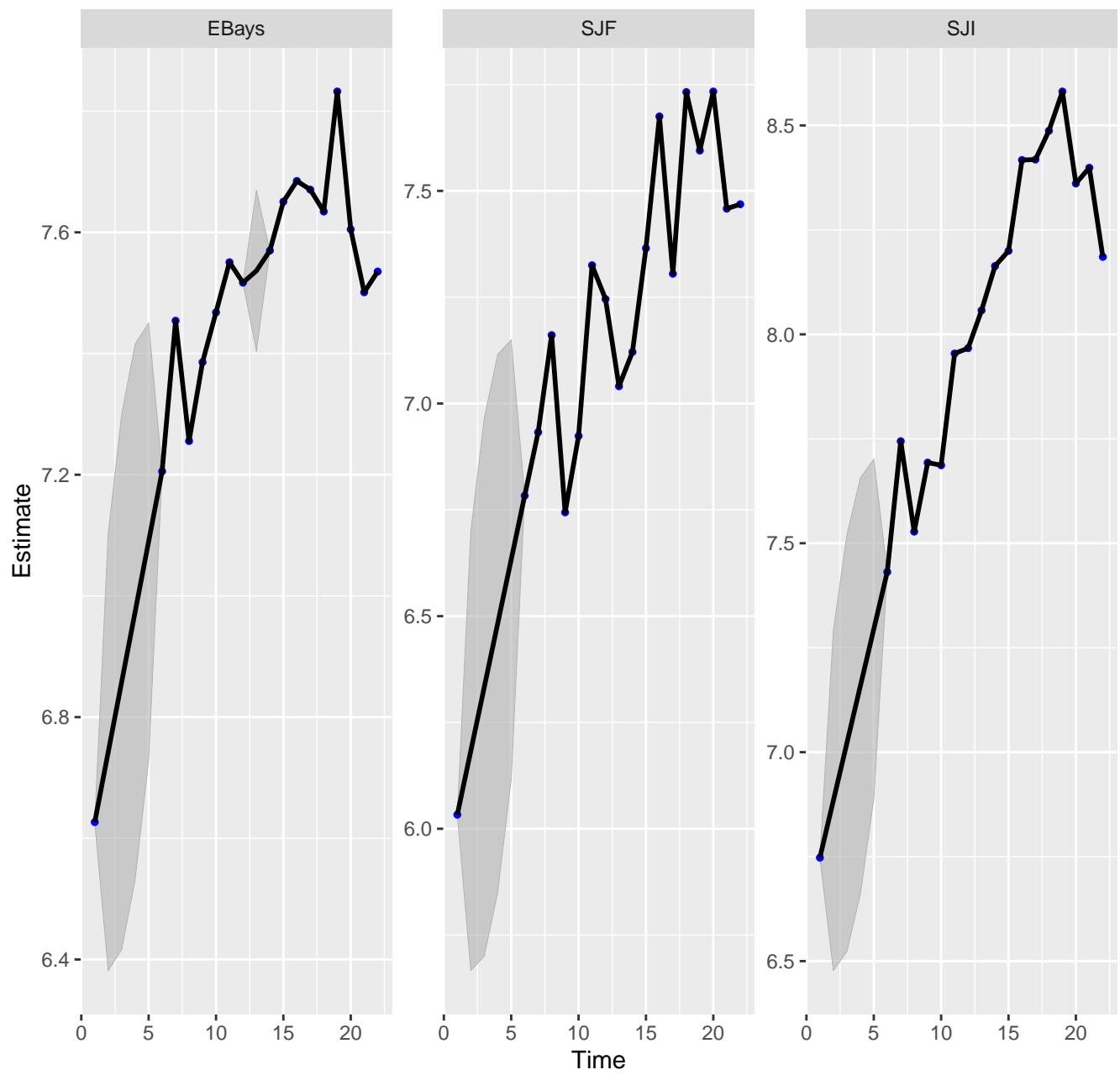
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

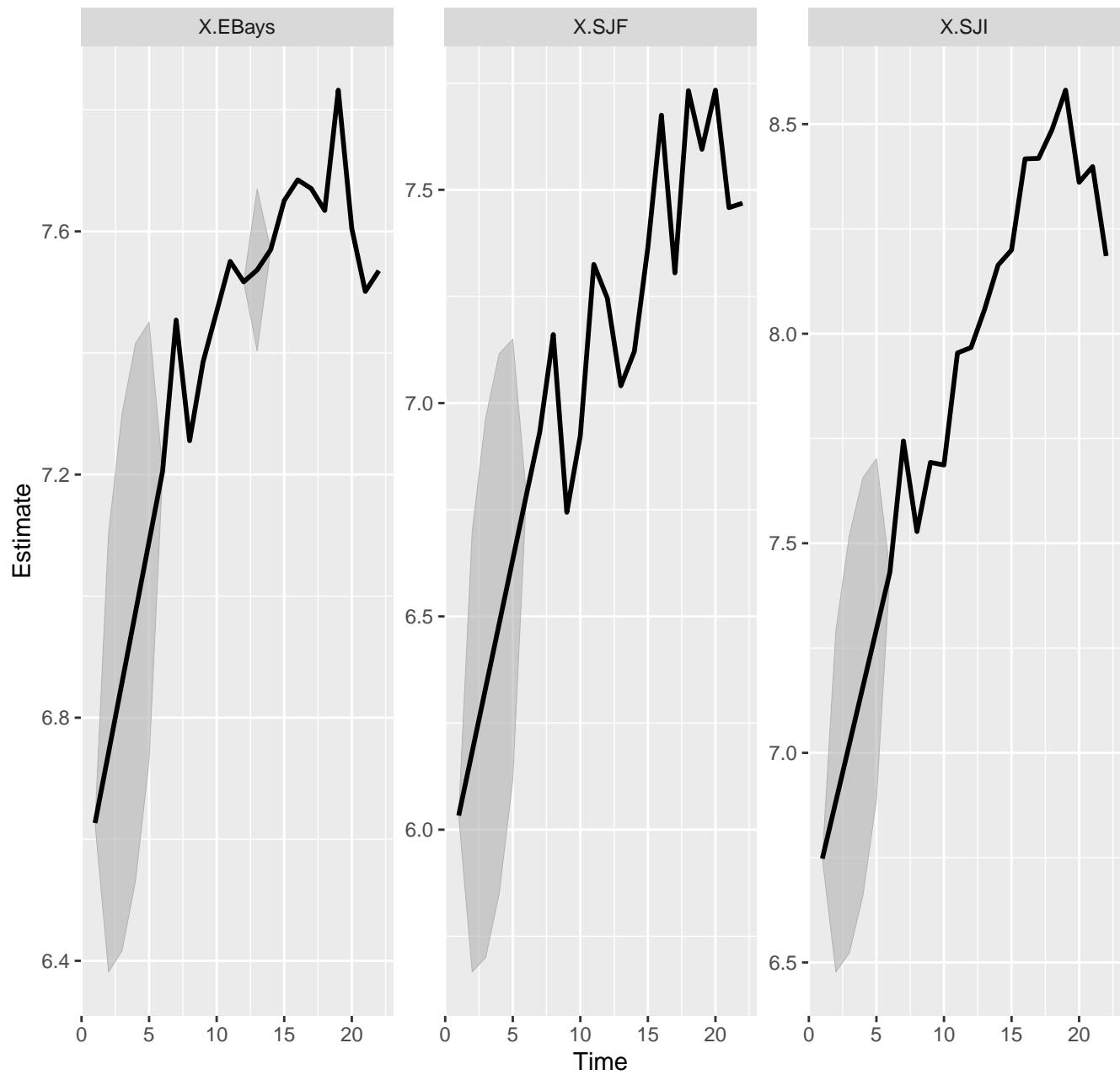
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

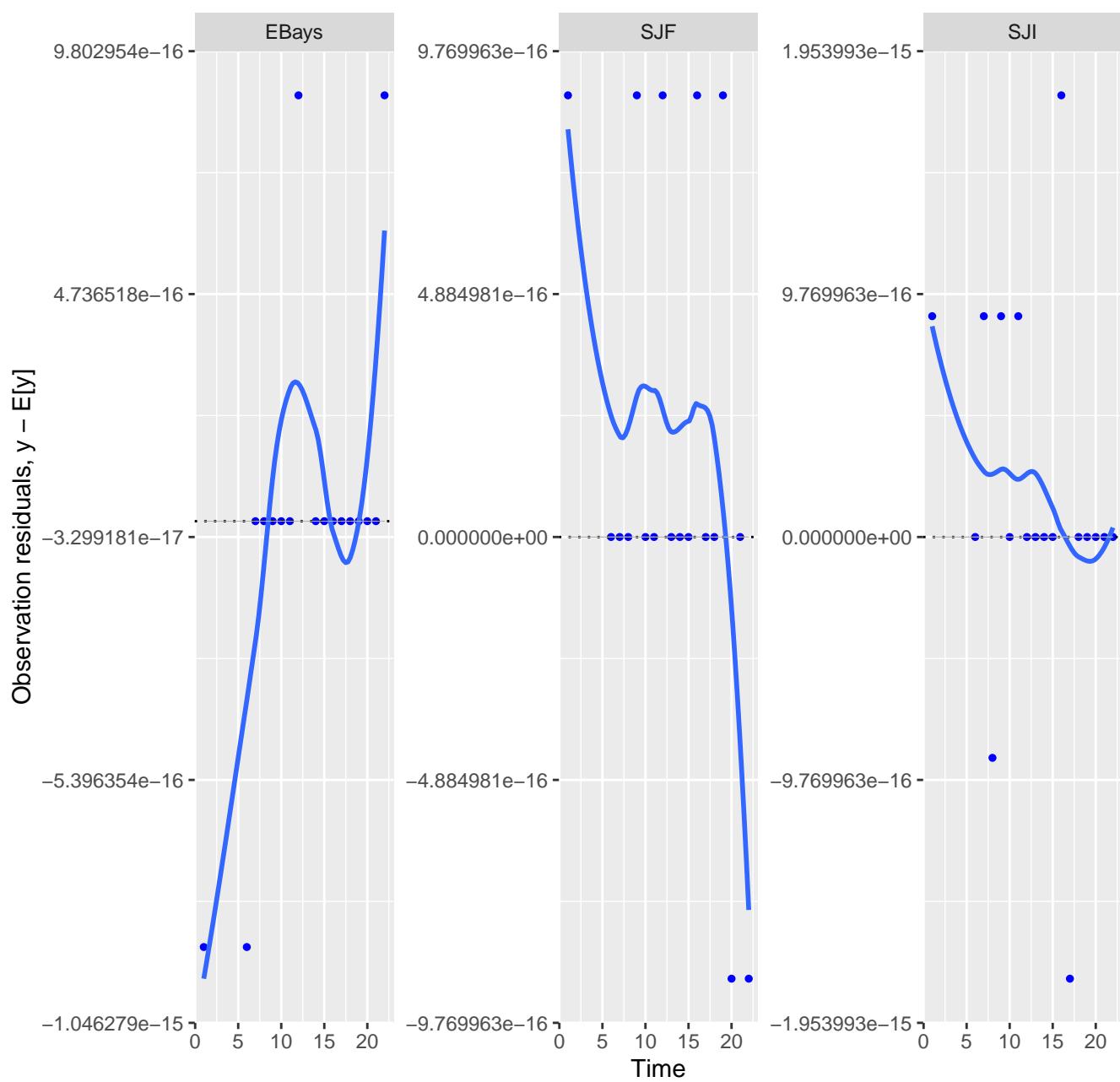
Model fitted Y + CI



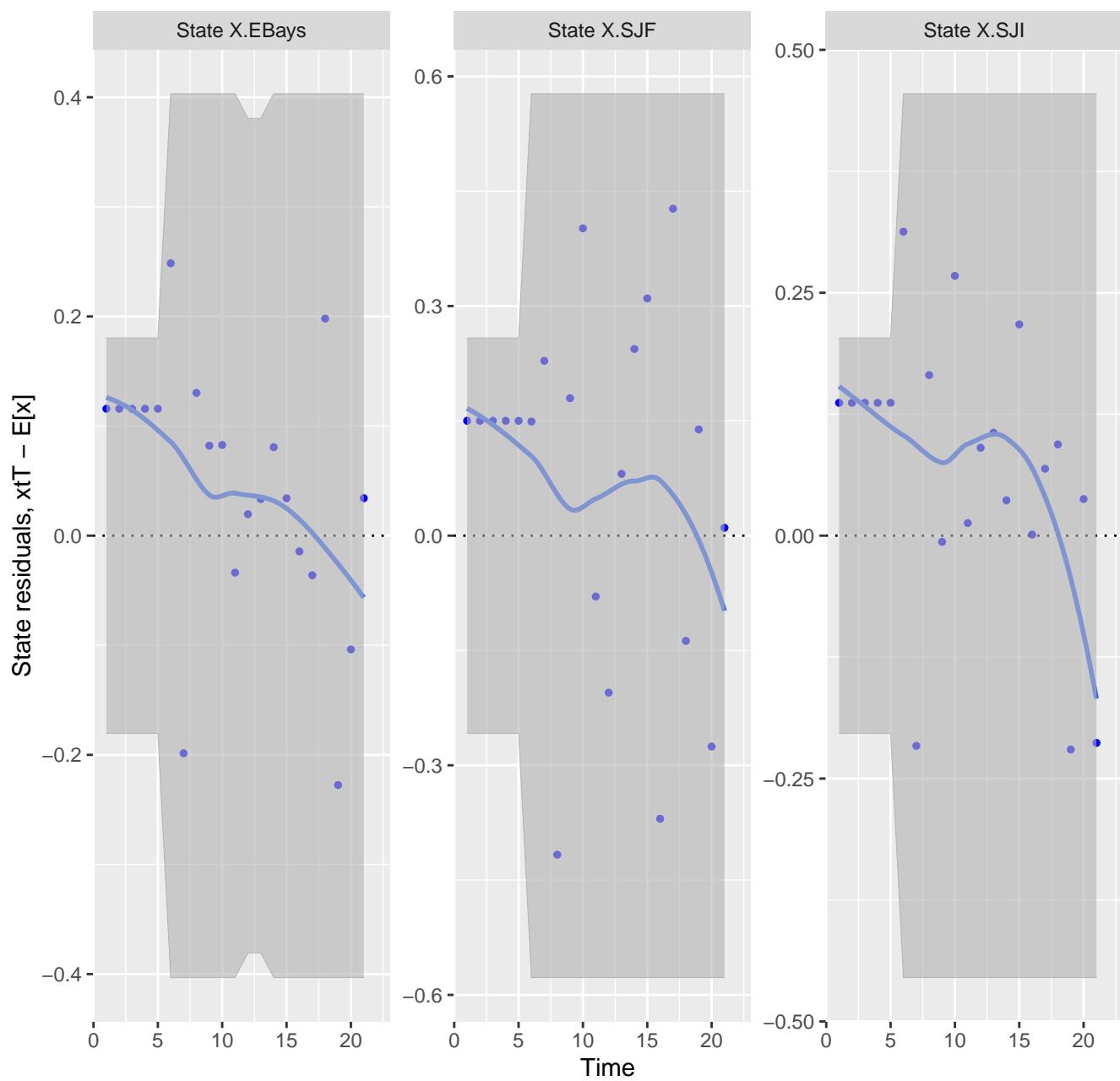
States



Model residuals

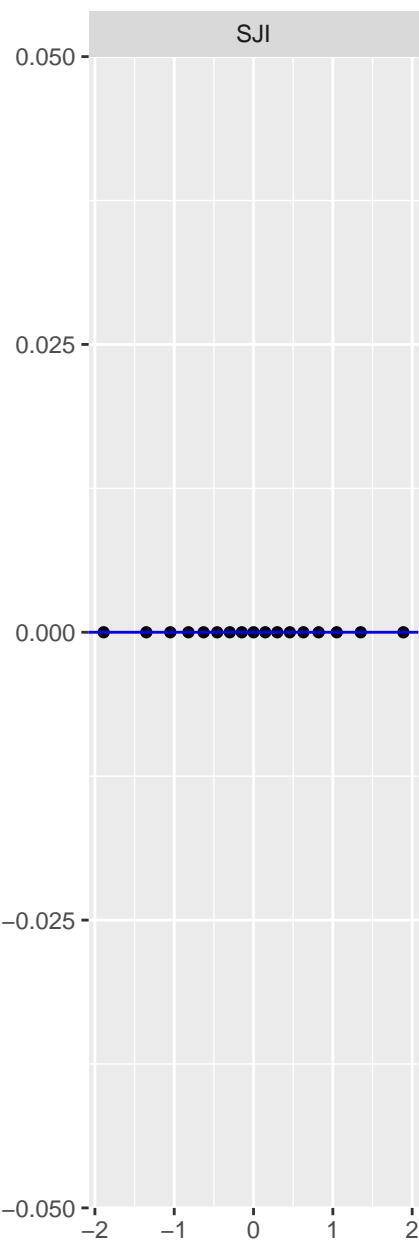
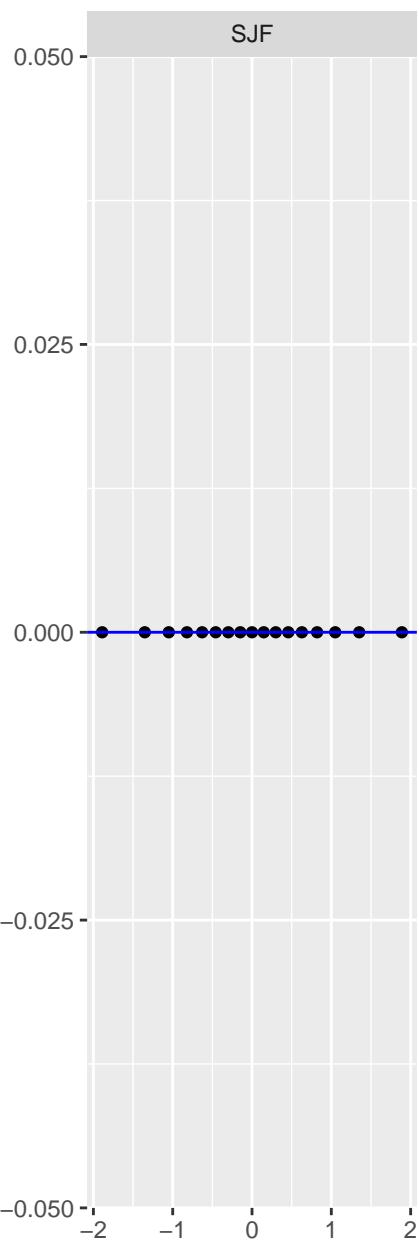
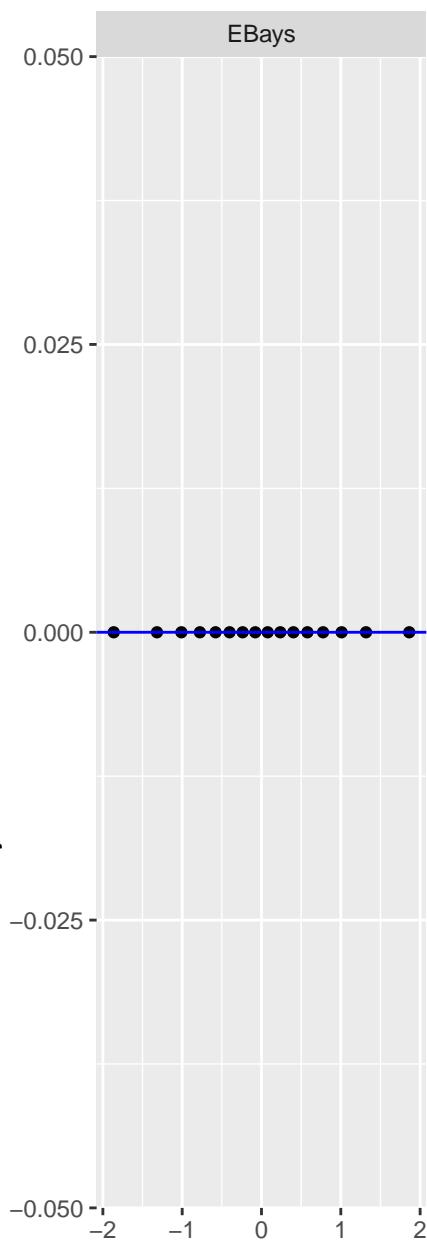


State residuals



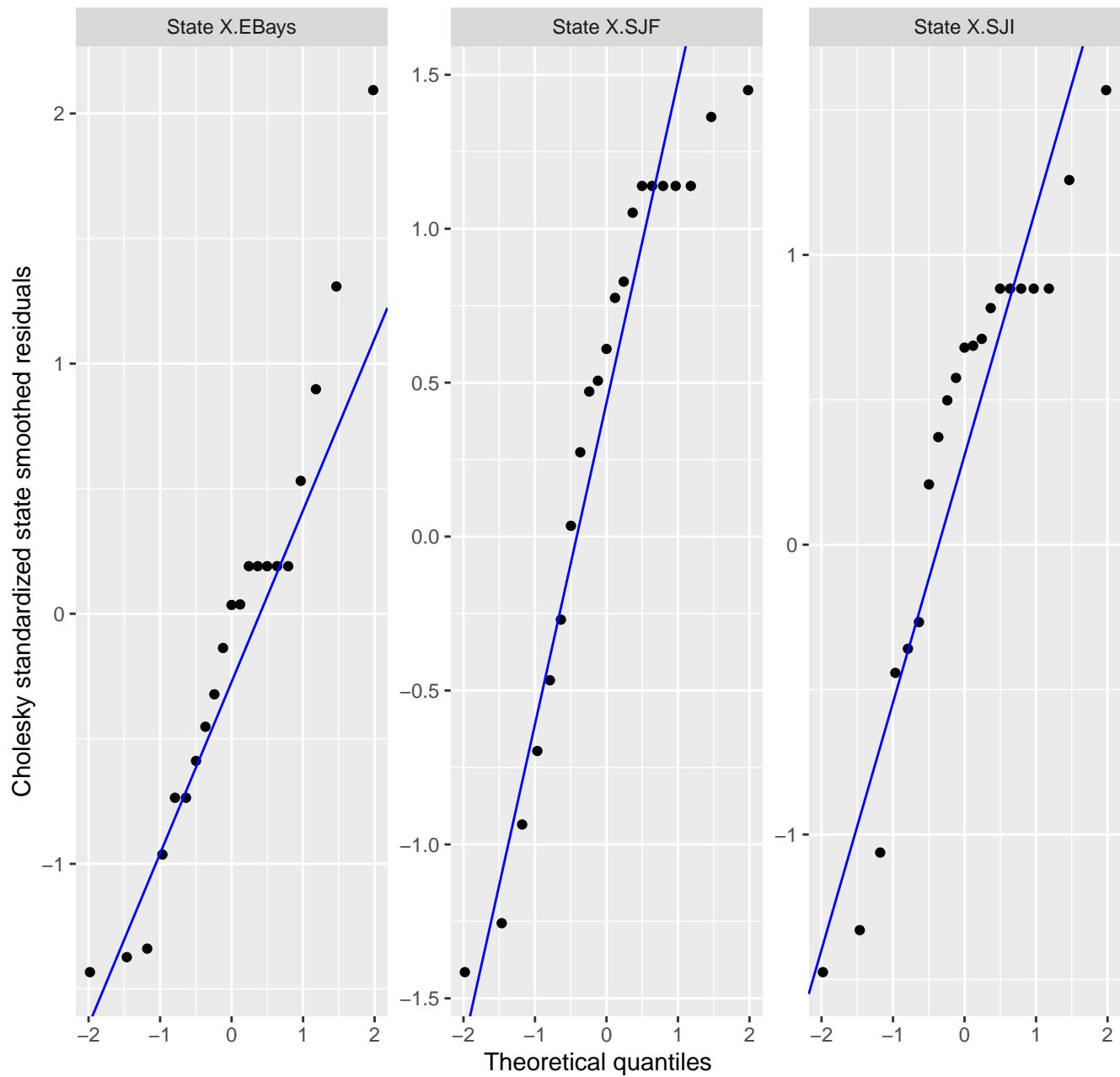
Model residuals normality test

Cholesky standardized model smoothed residuals

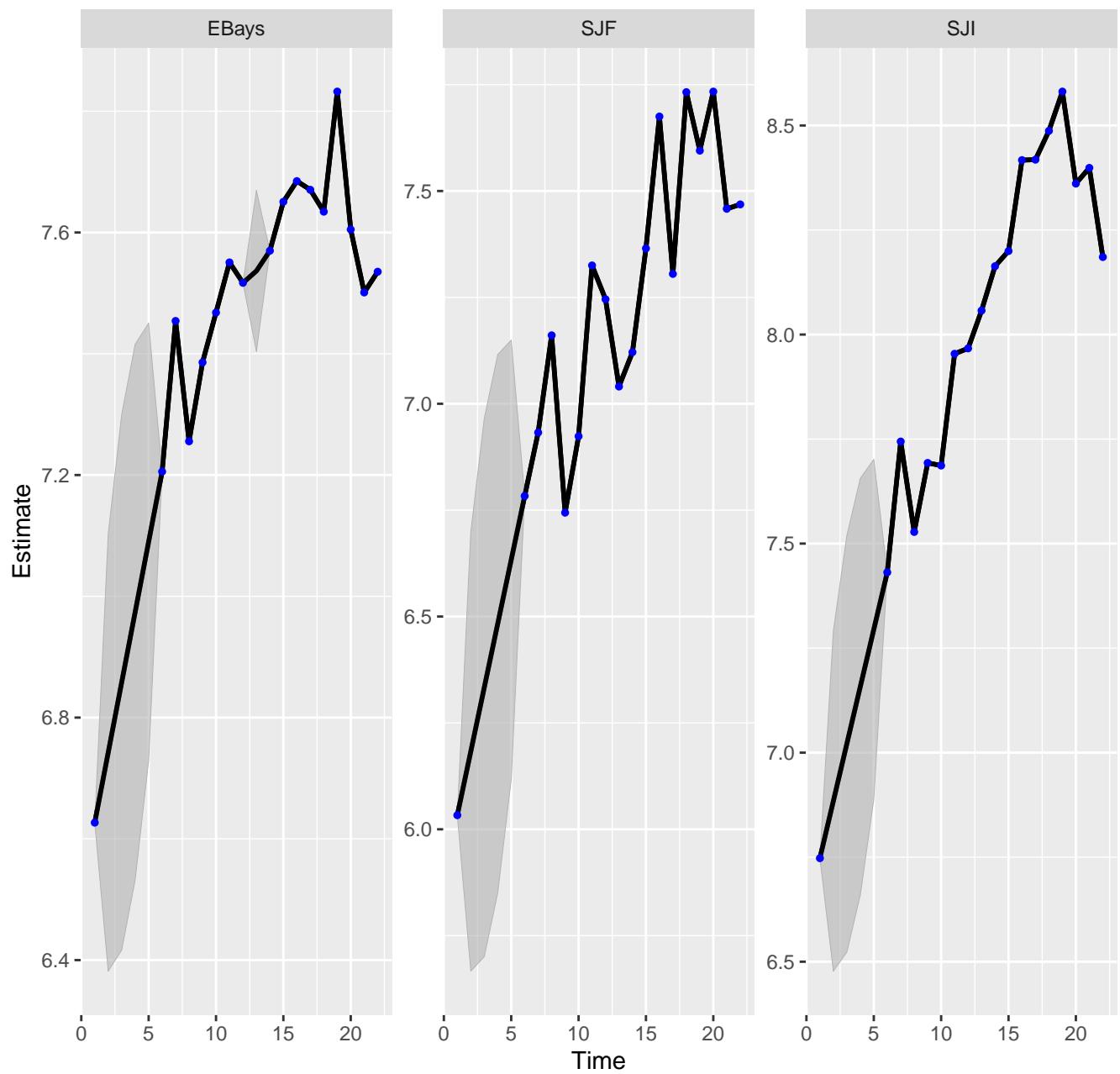


Theoretical quantiles

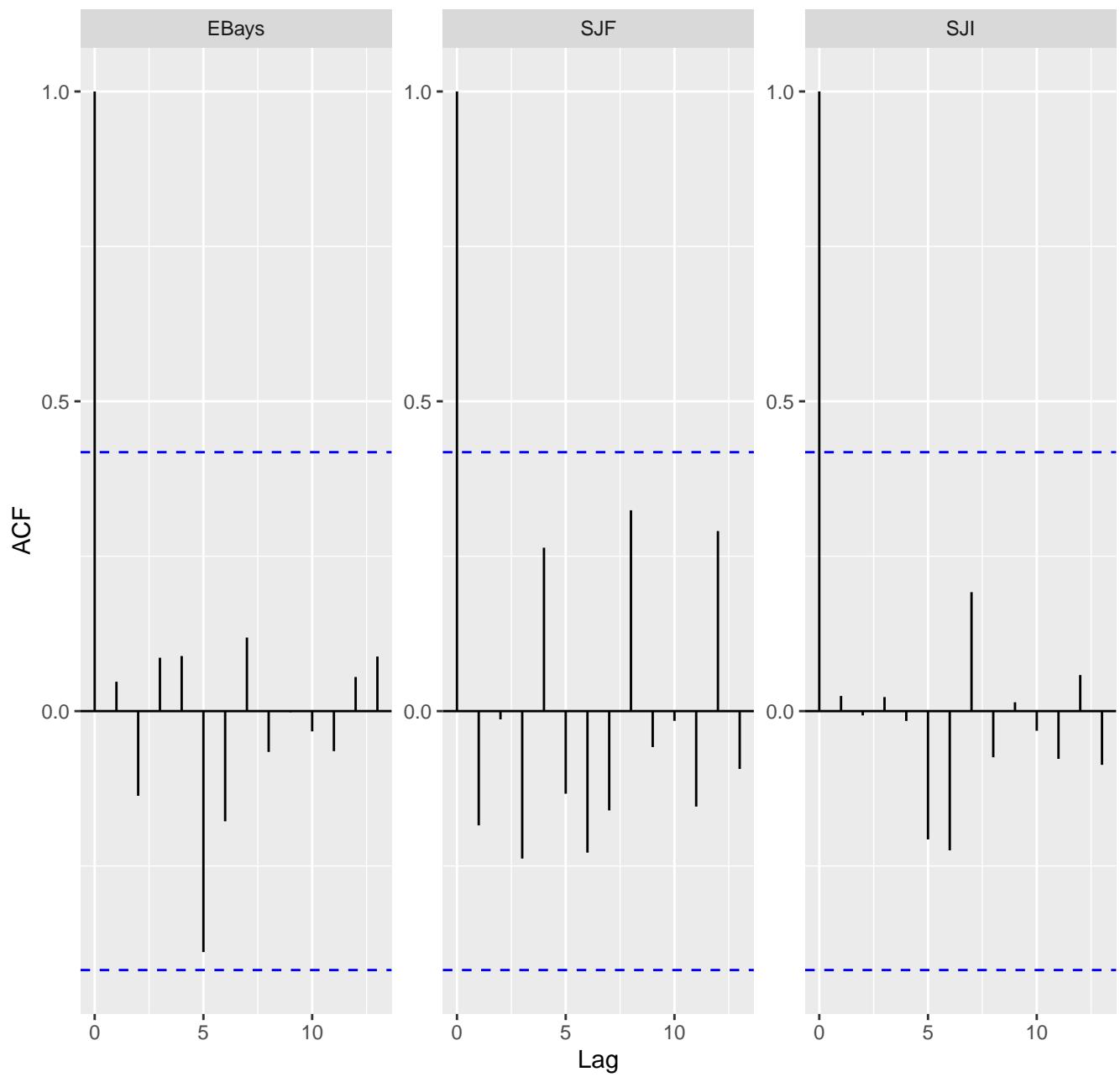
State residuals normality test

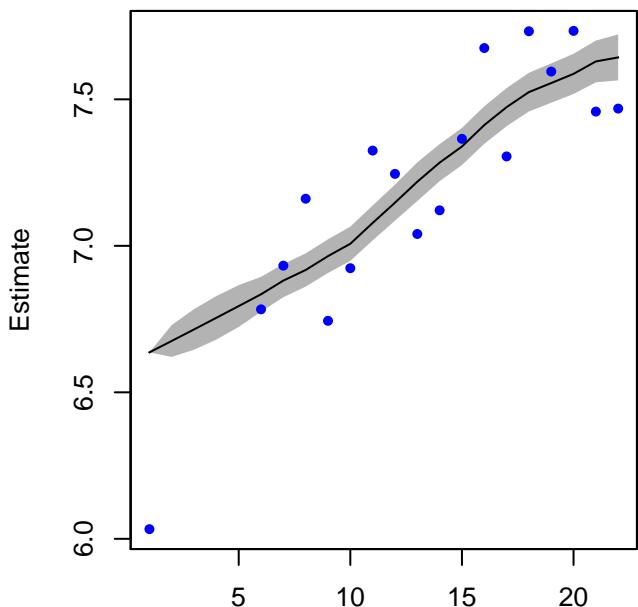
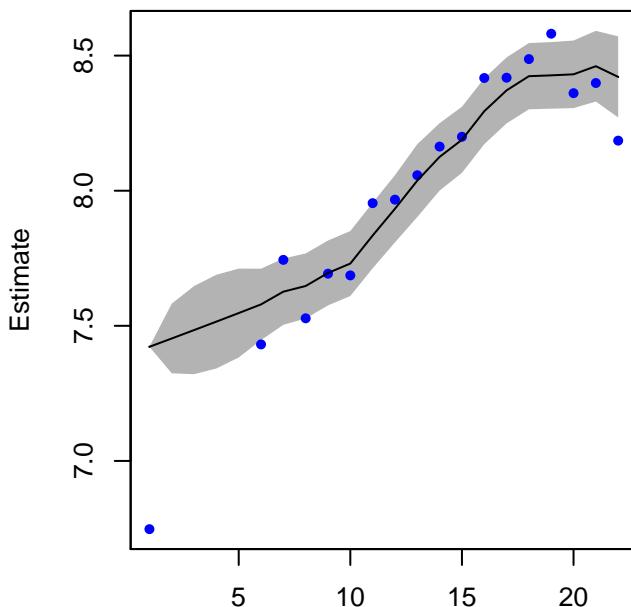
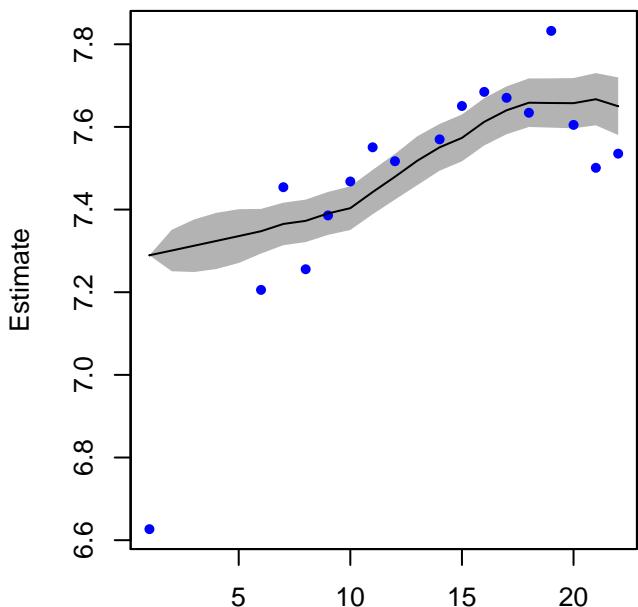


Expected value of Y conditioned on data

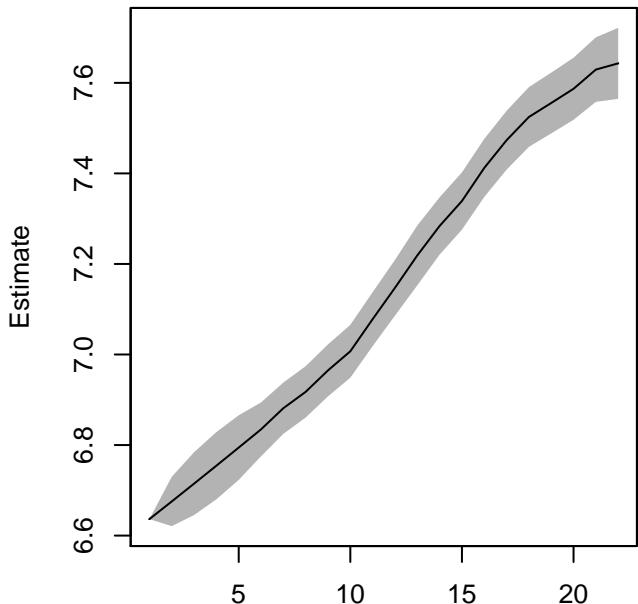


Model innovations residuals ACF

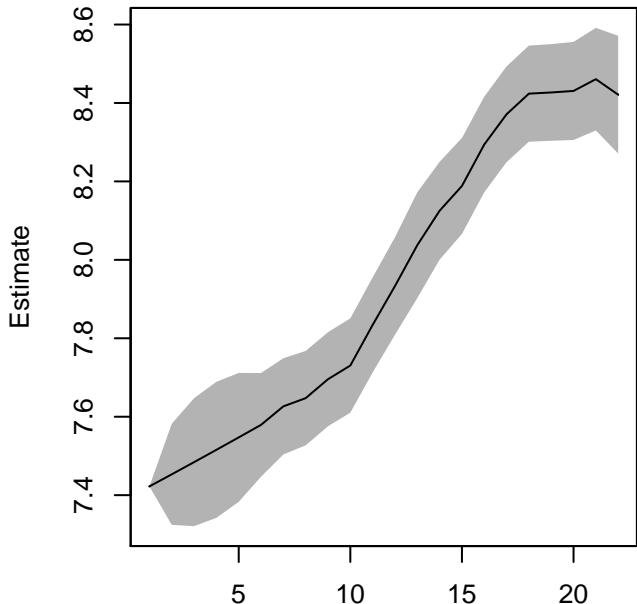


SJF + CI**SJI + CI****EBays + CI**

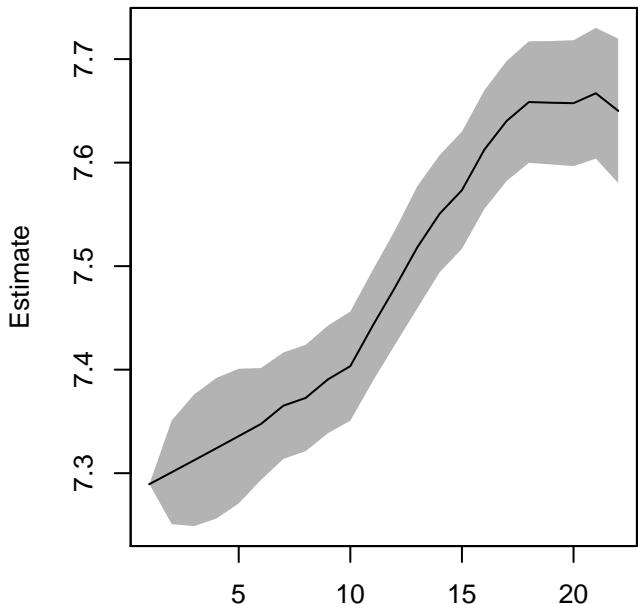
State X.SJF

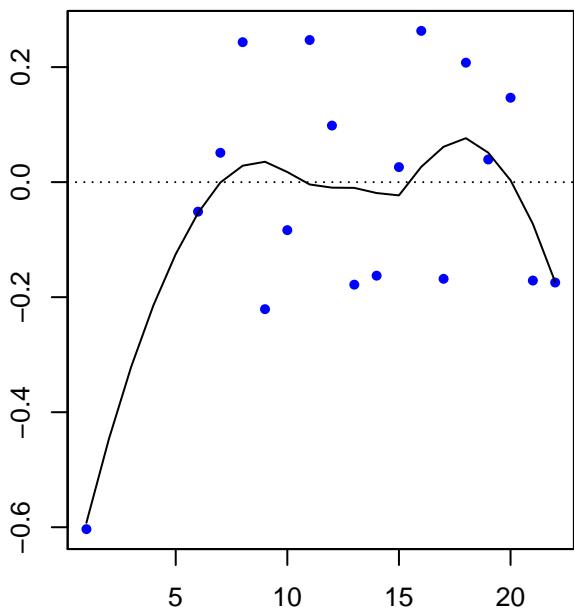
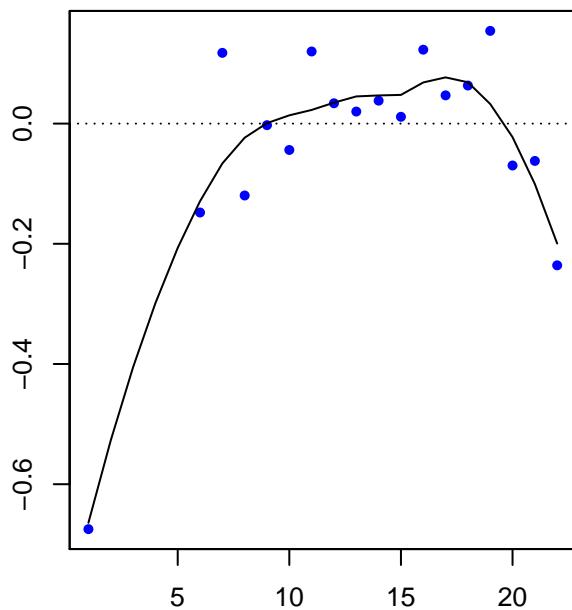
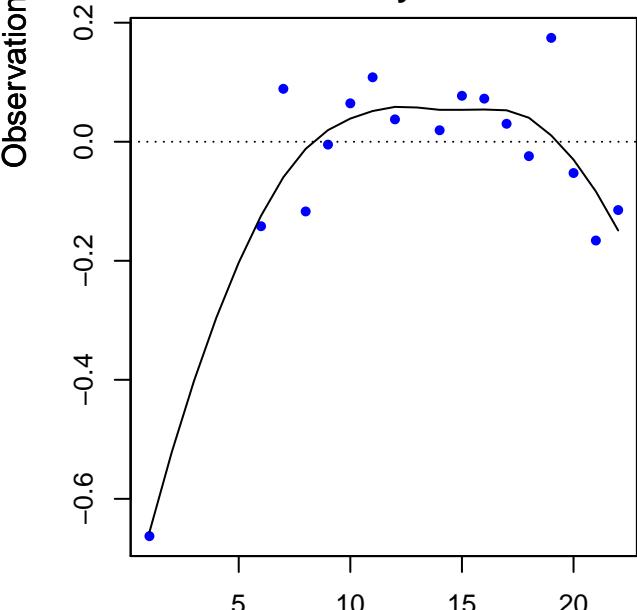


State X.SJI

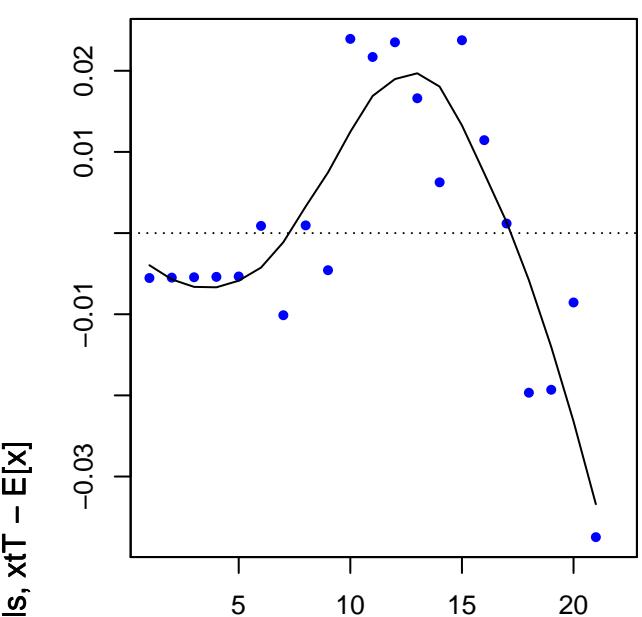


State X.EBays

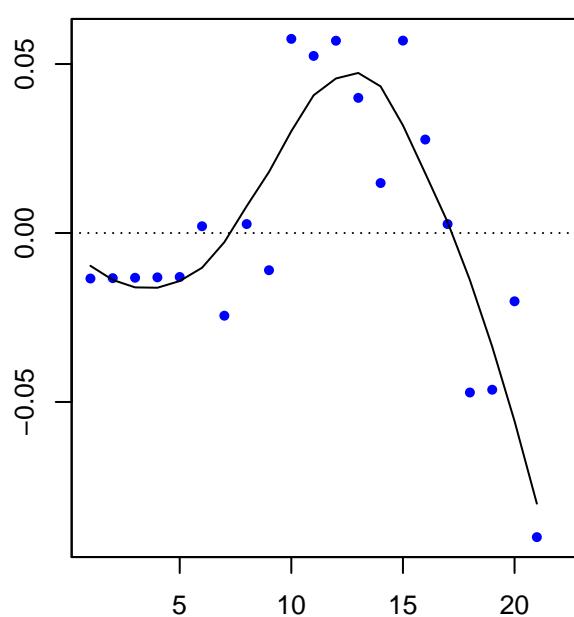


SJFObservation residuals, $y - E[y]$ **SJI****EBays**

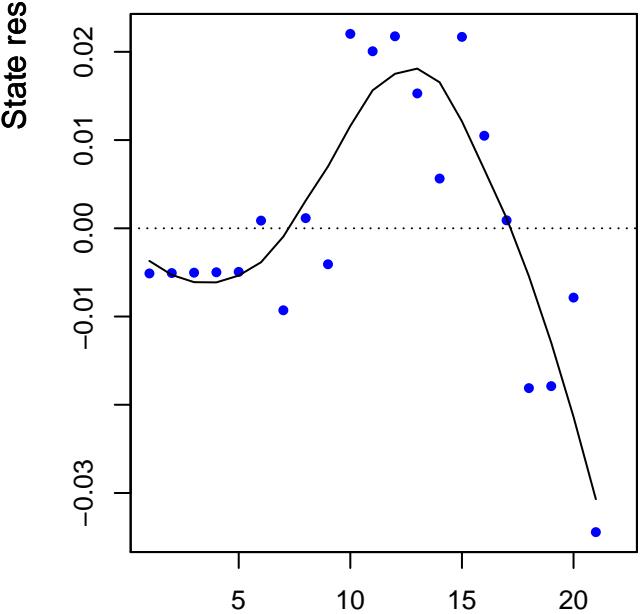
State X.SJF

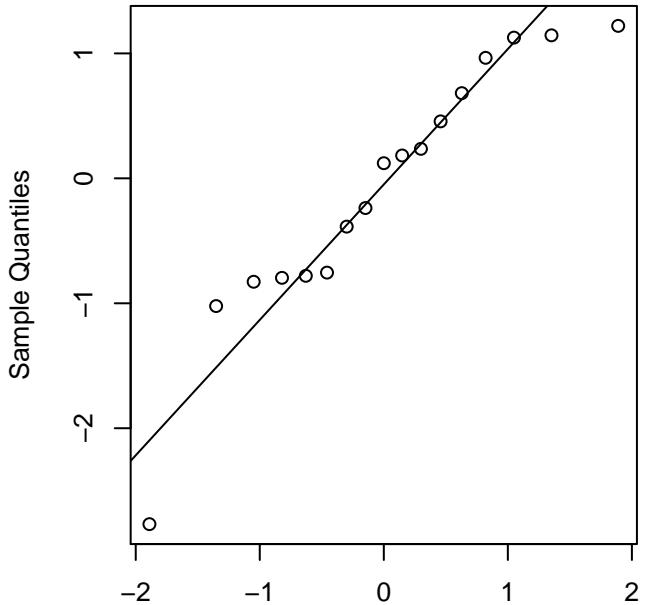
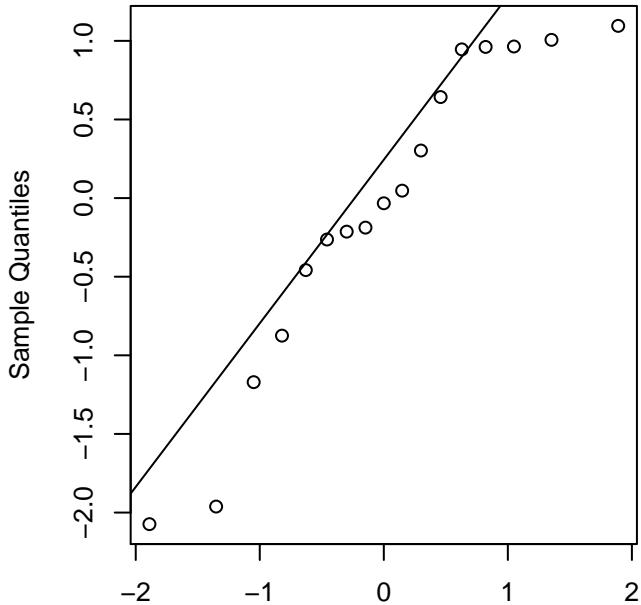
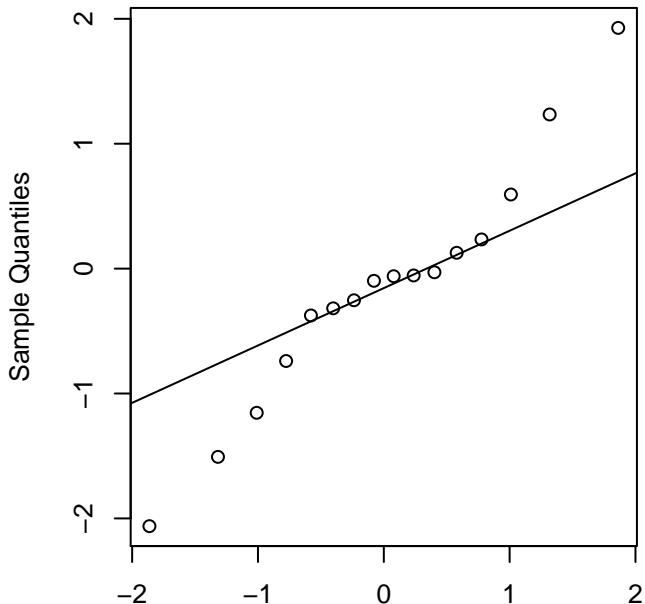


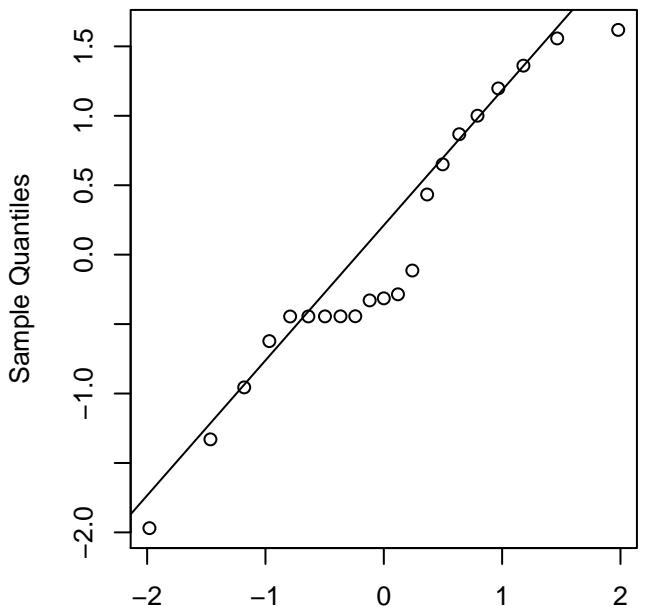
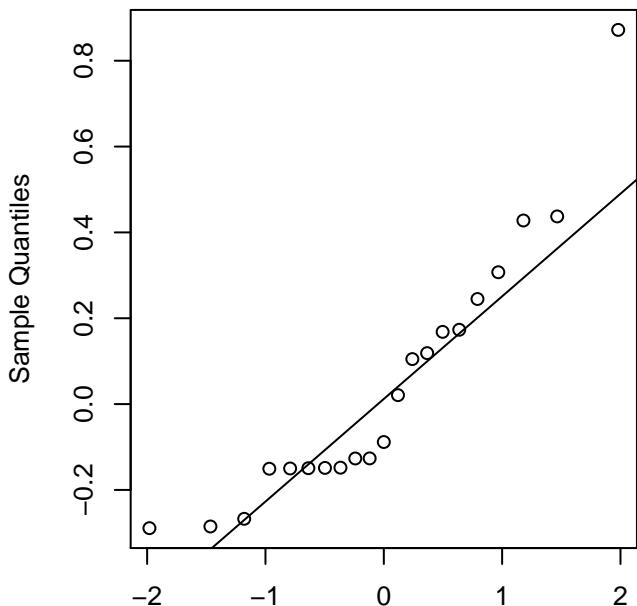
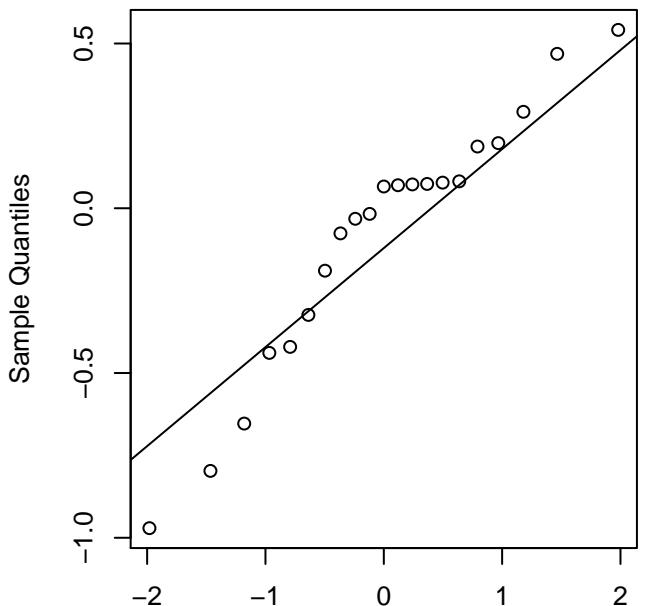
State X.SJI

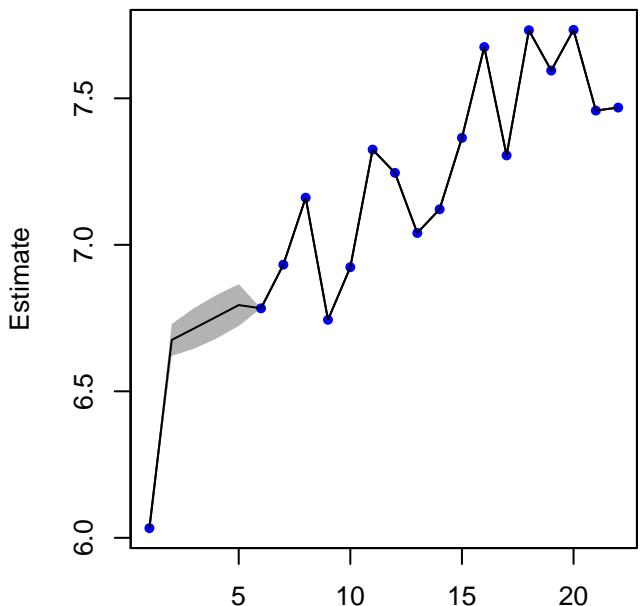
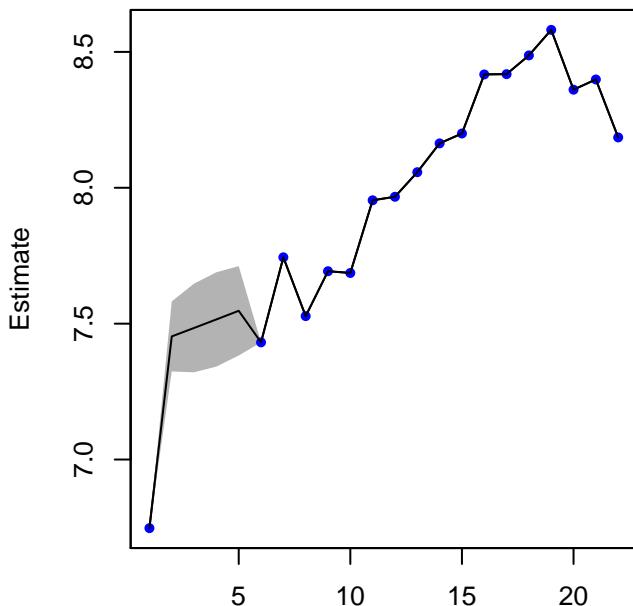
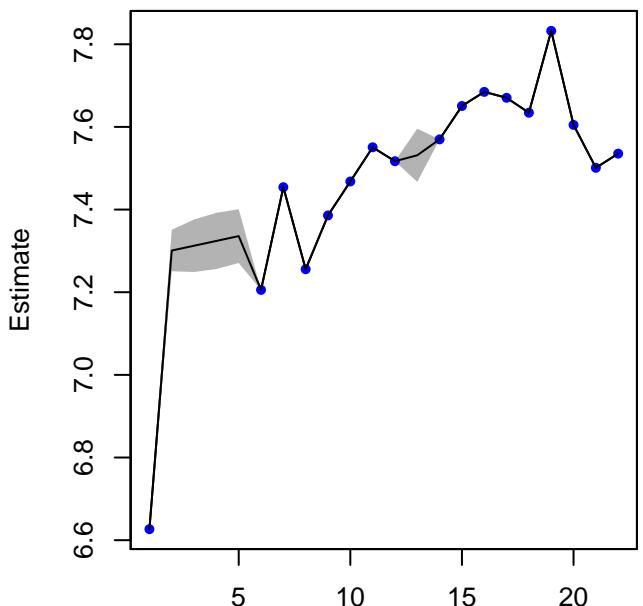


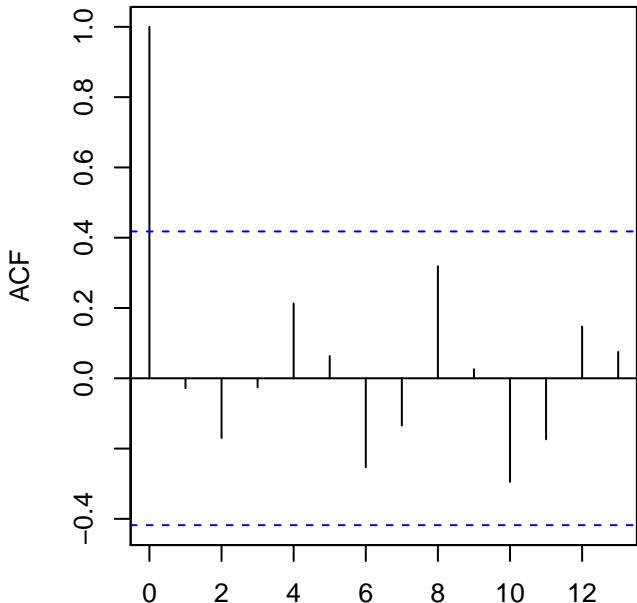
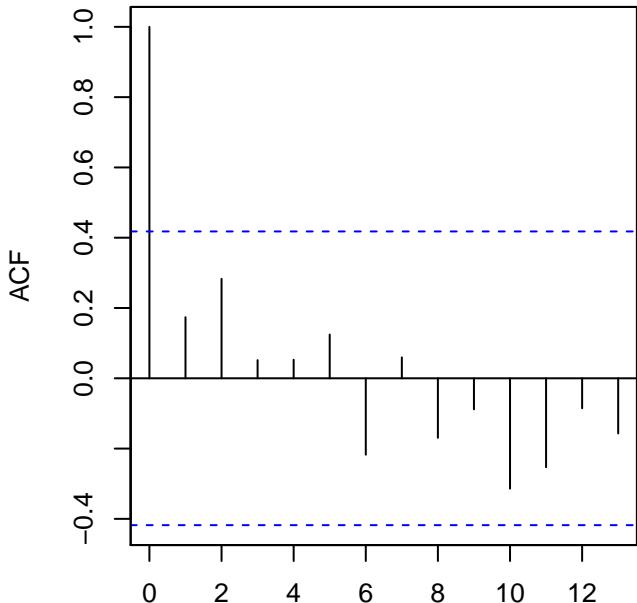
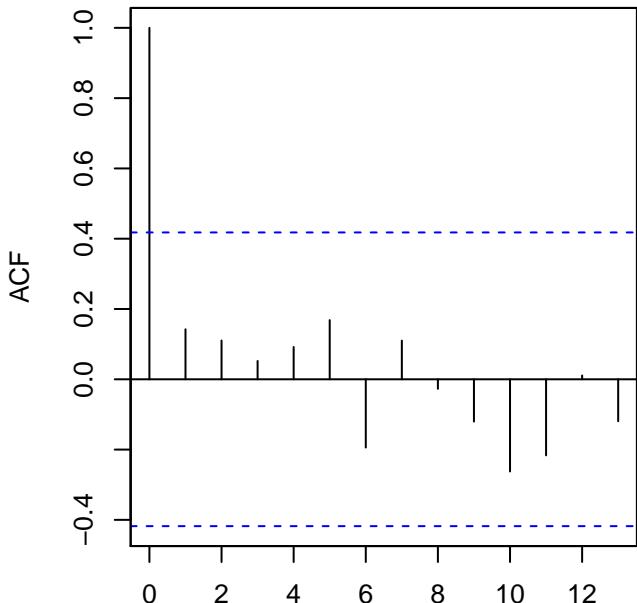
State X.EBays



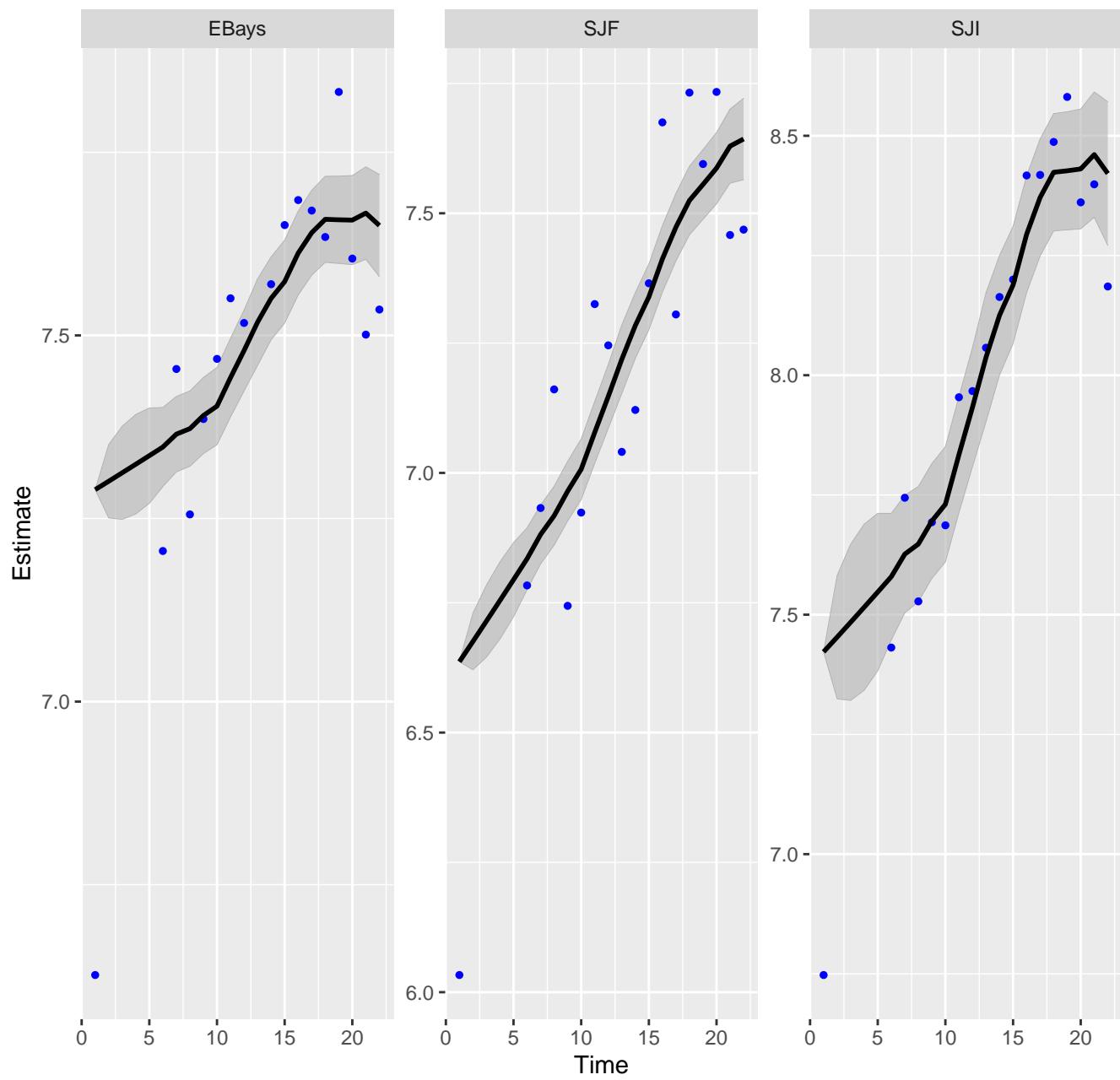
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

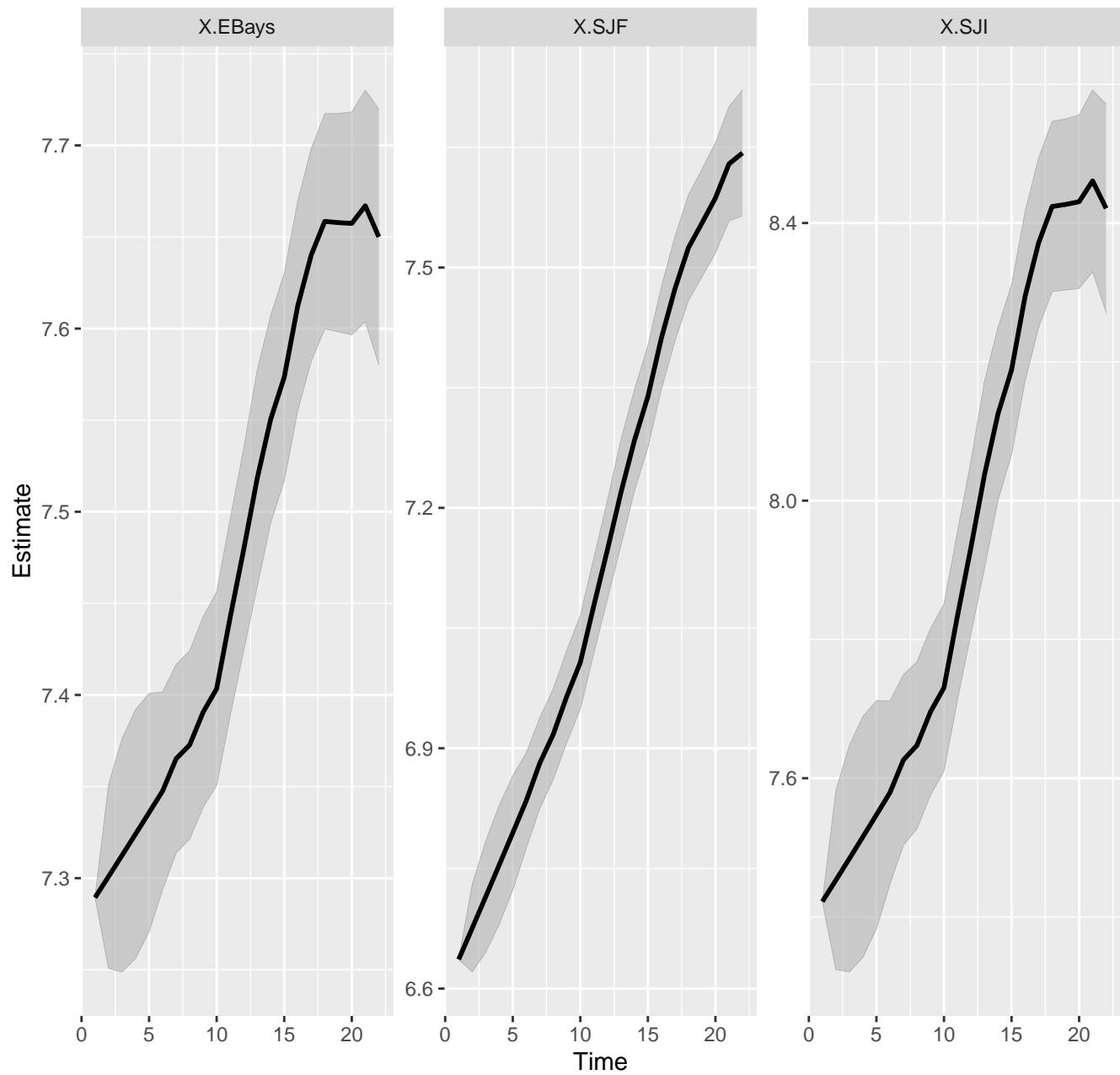
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

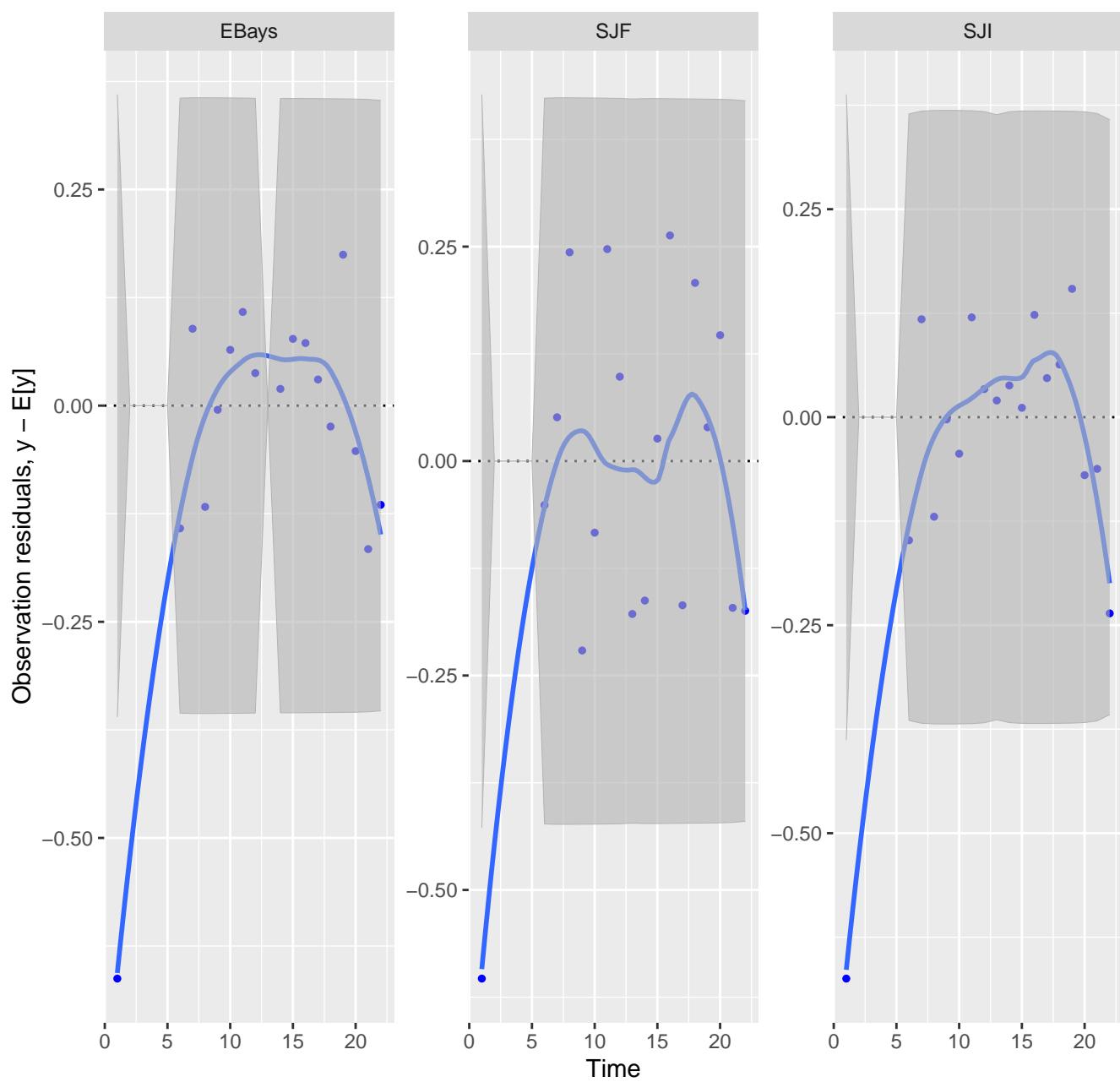
Model fitted Y + CI



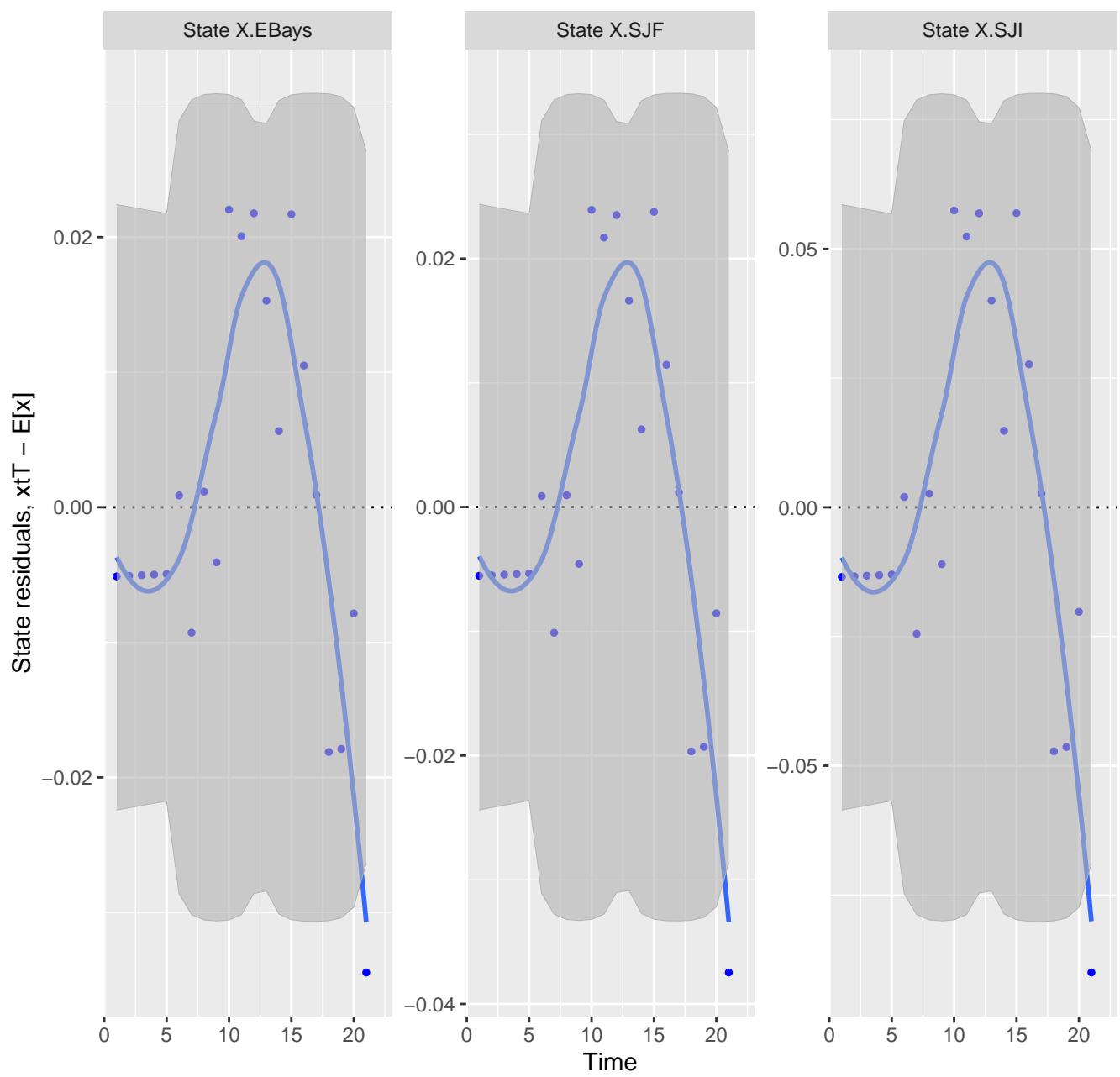
States



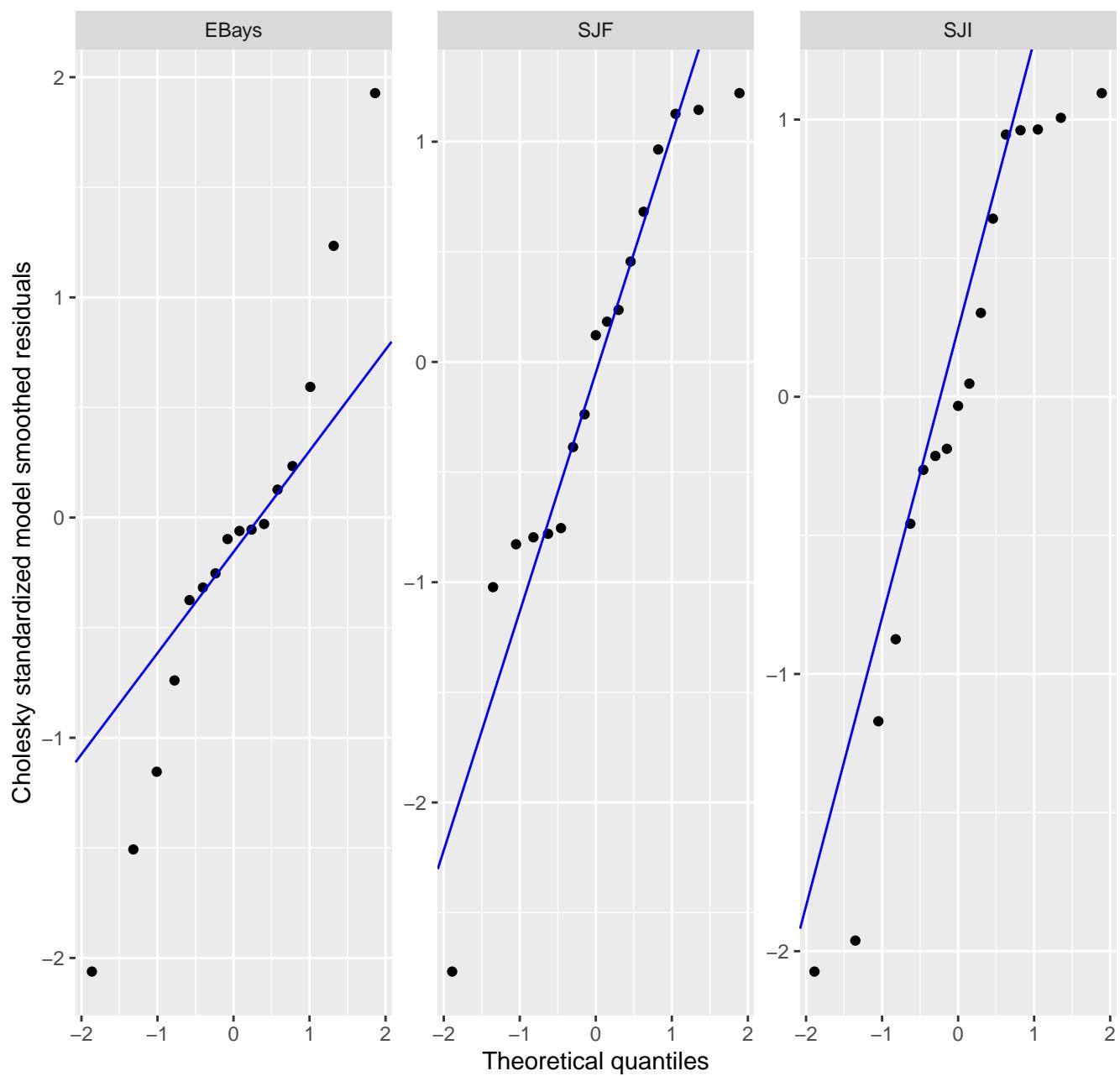
Model residuals



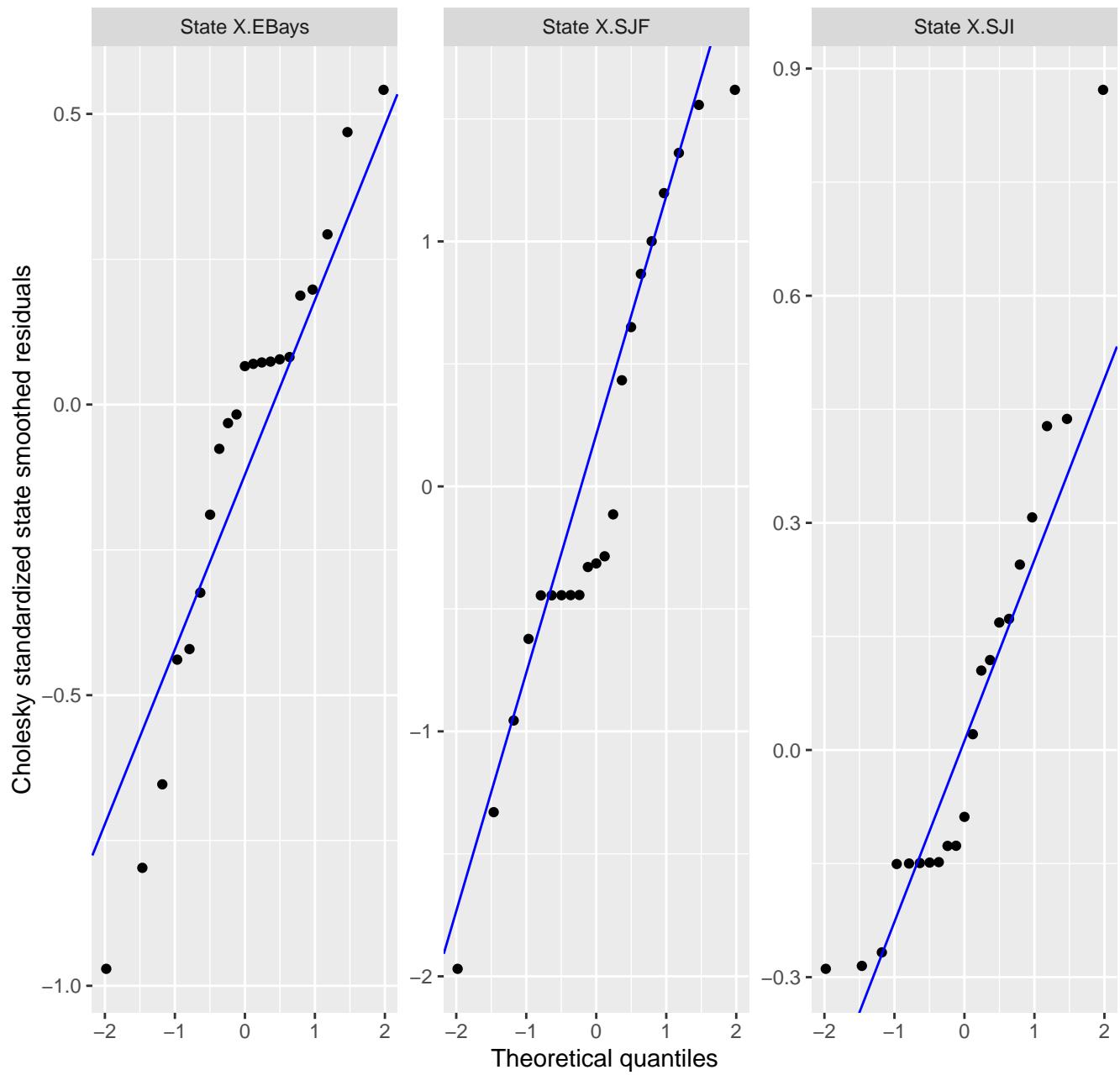
State residuals



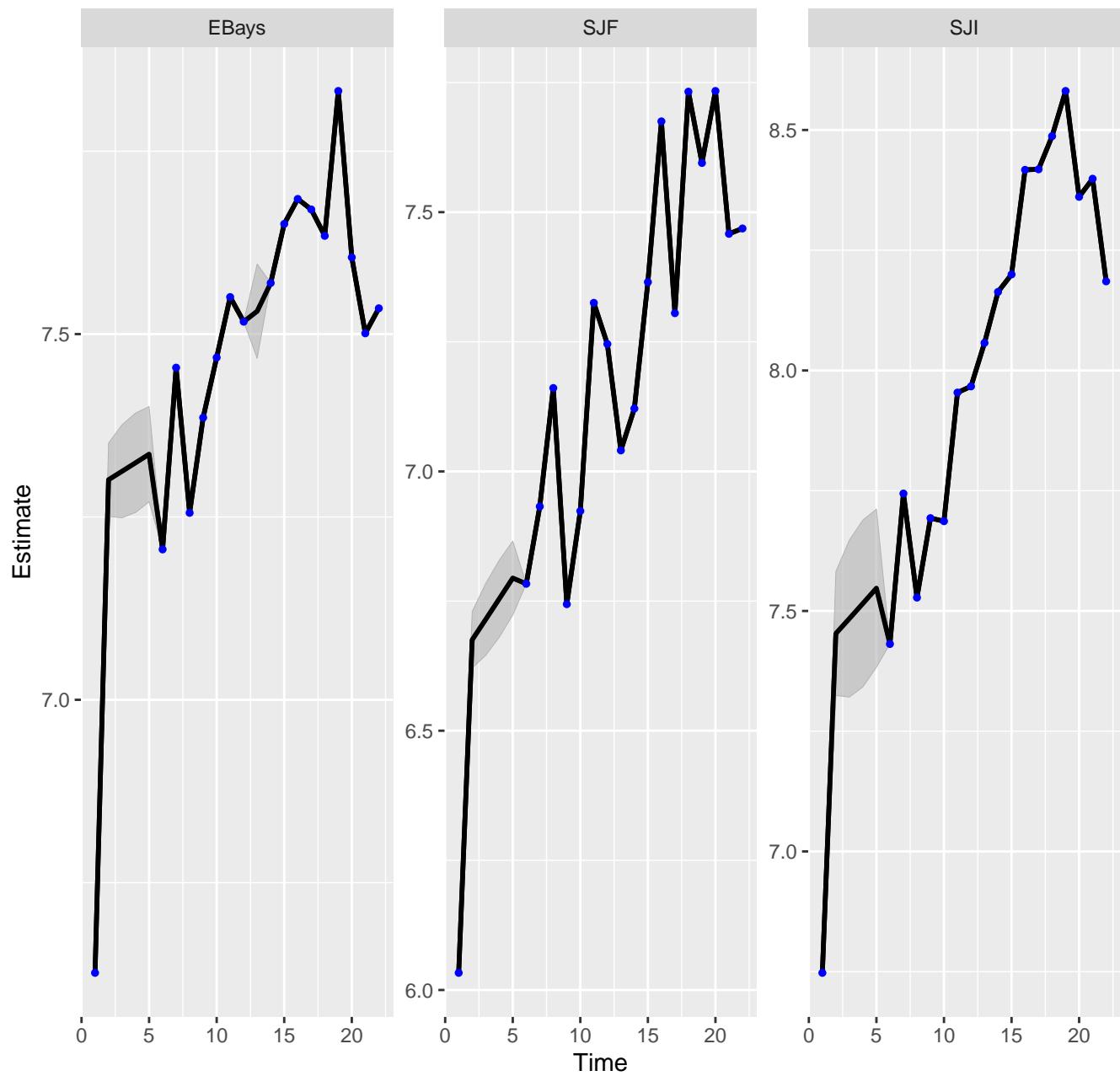
Model residuals normality test



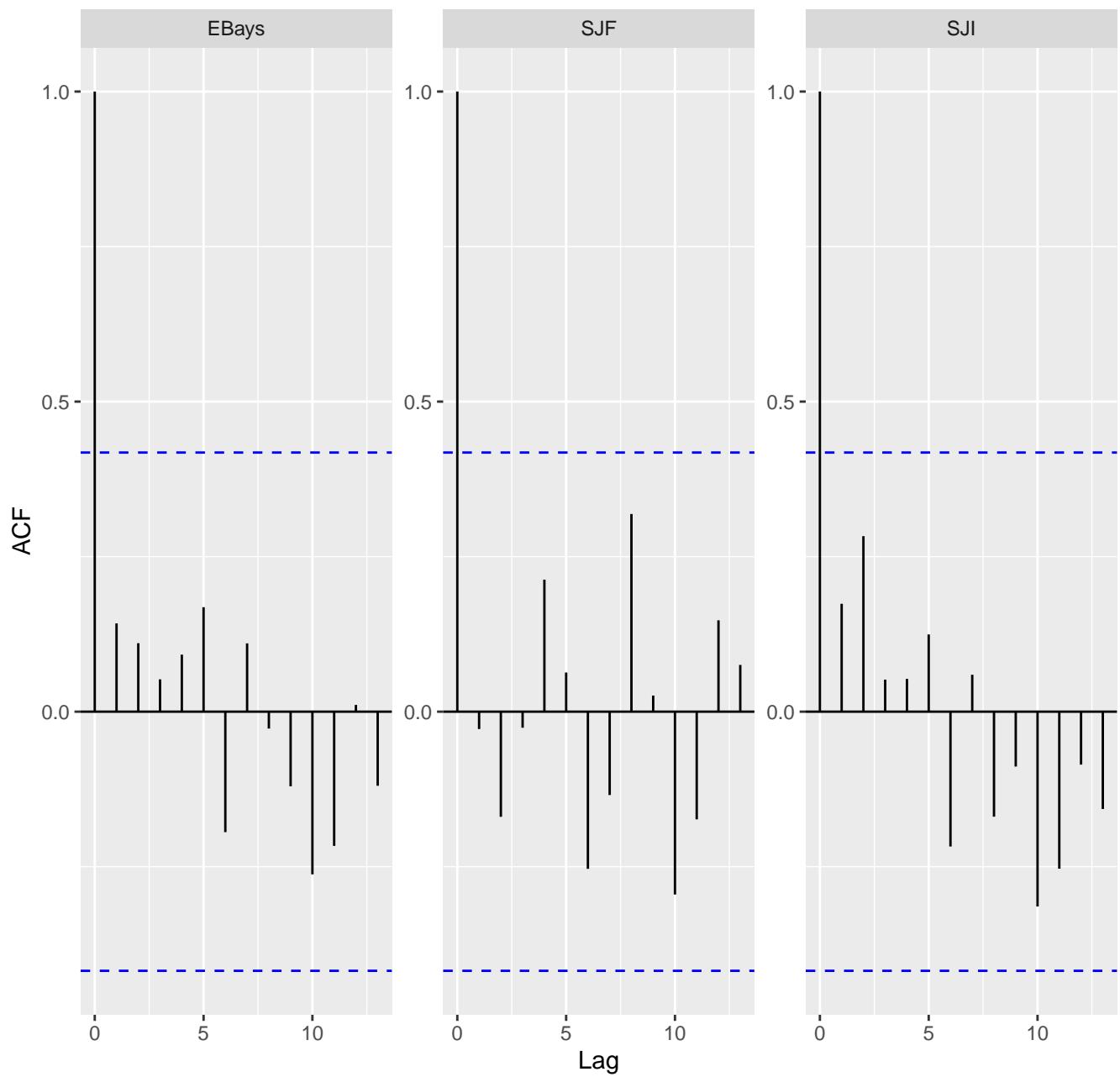
State residuals normality test

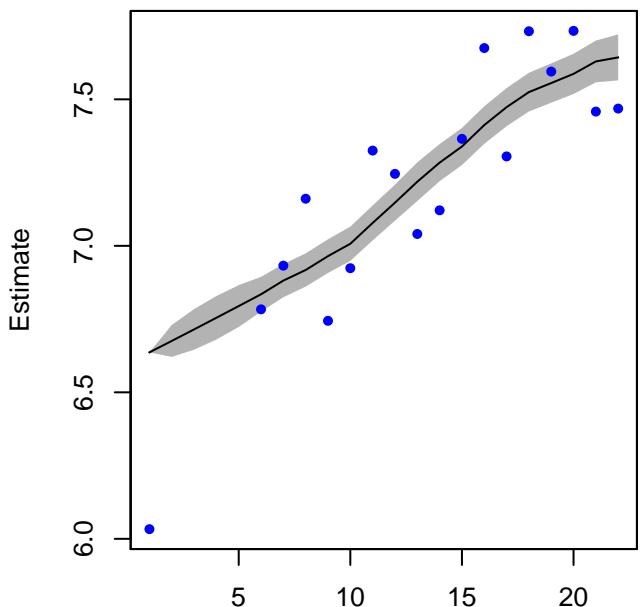
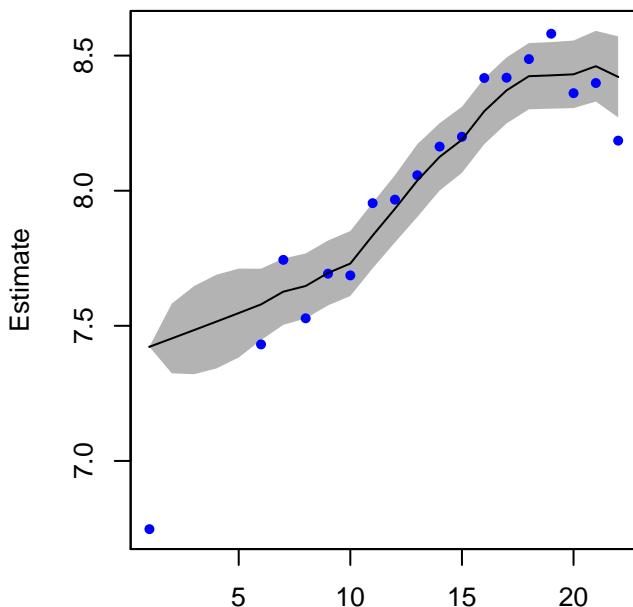
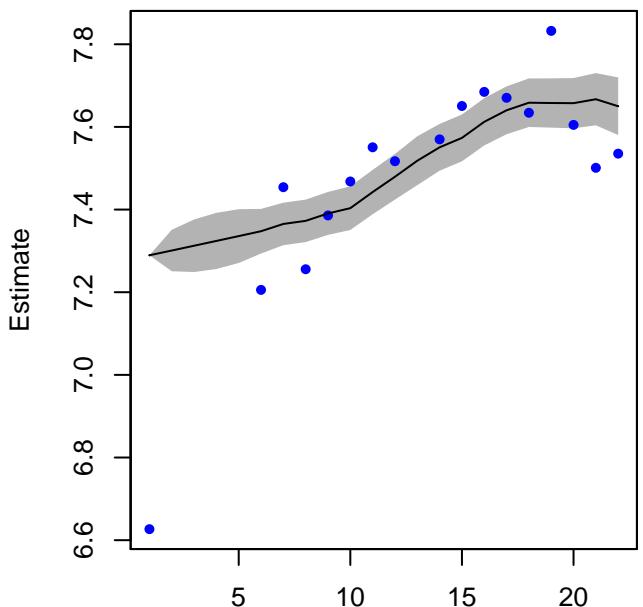


Expected value of Y conditioned on data

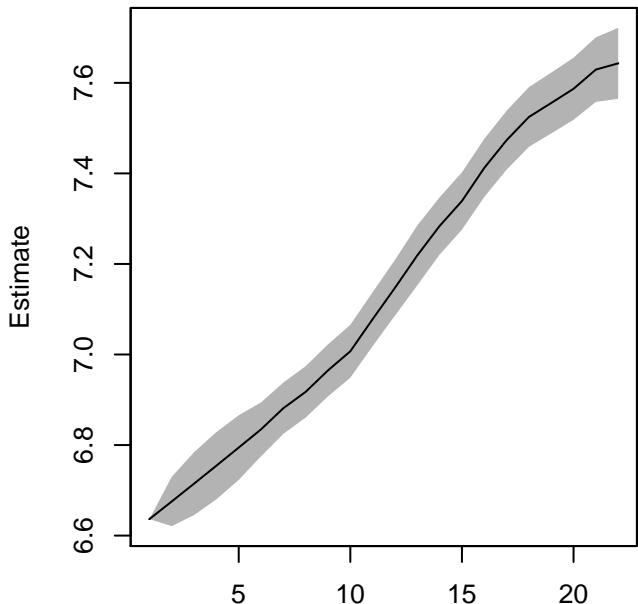


Model innovations residuals ACF

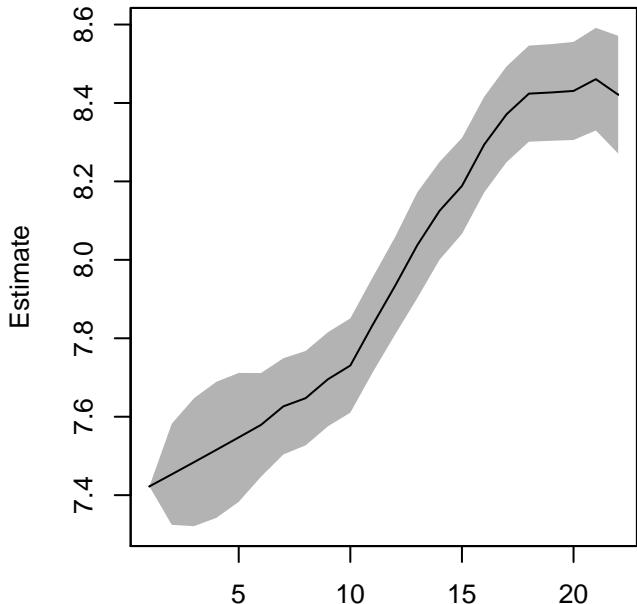


SJF + CI**SJI + CI****EBays + CI**

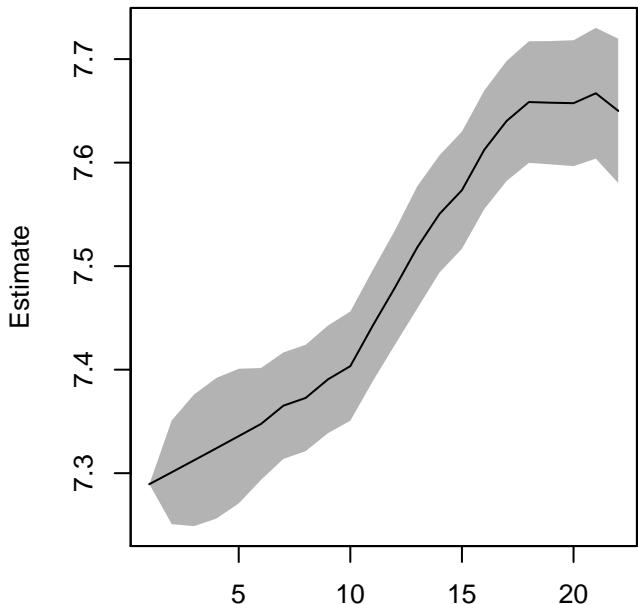
State X.SJF

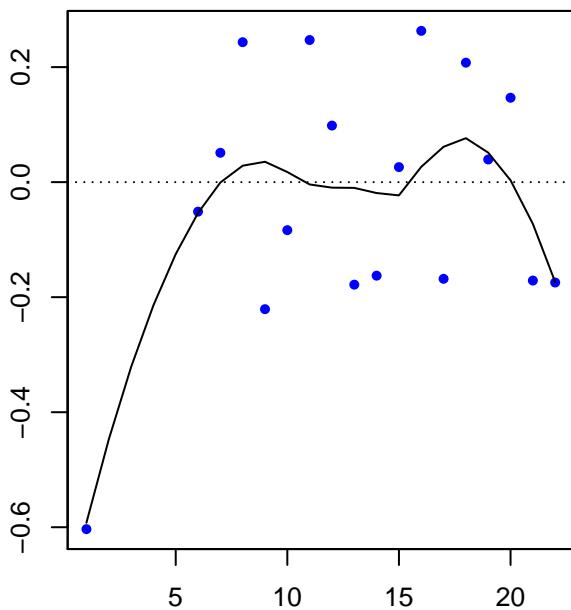
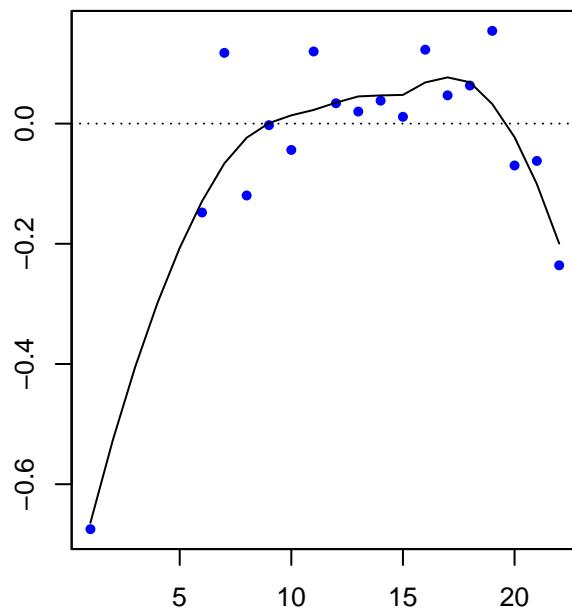
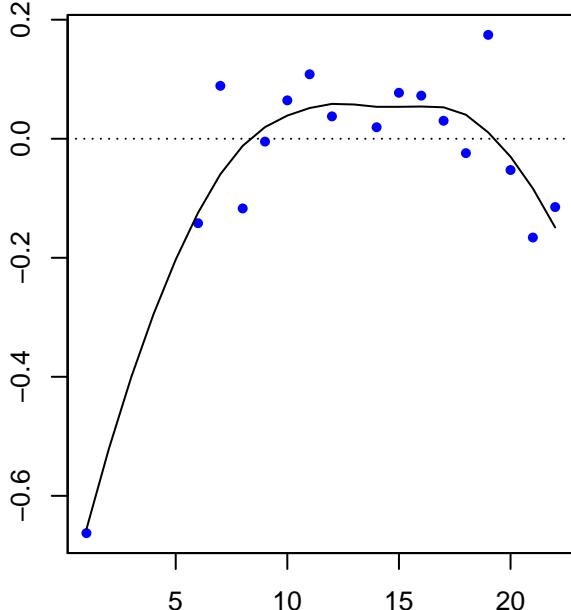


State X.SJI

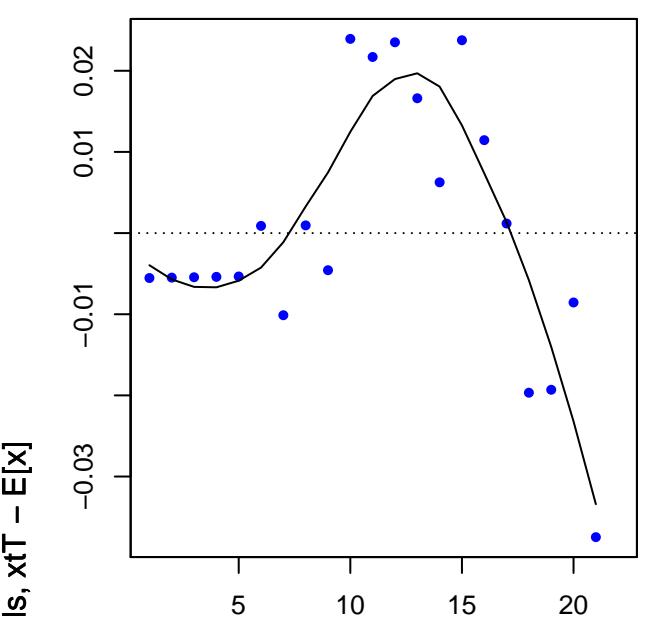


State X.EBays

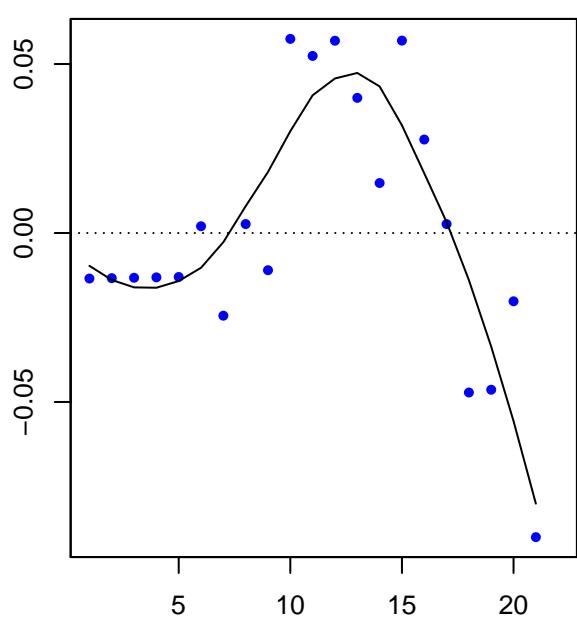


SJFObservation residuals, $y - E[y]$ **SJI****EBays**

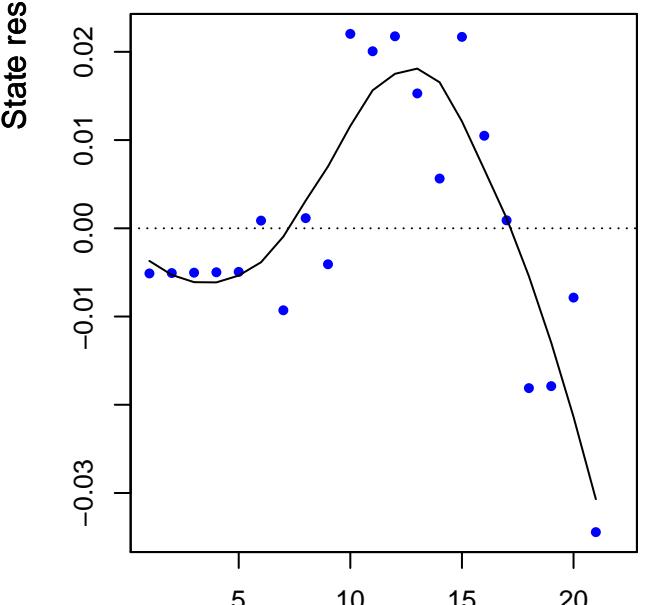
State X.SJF

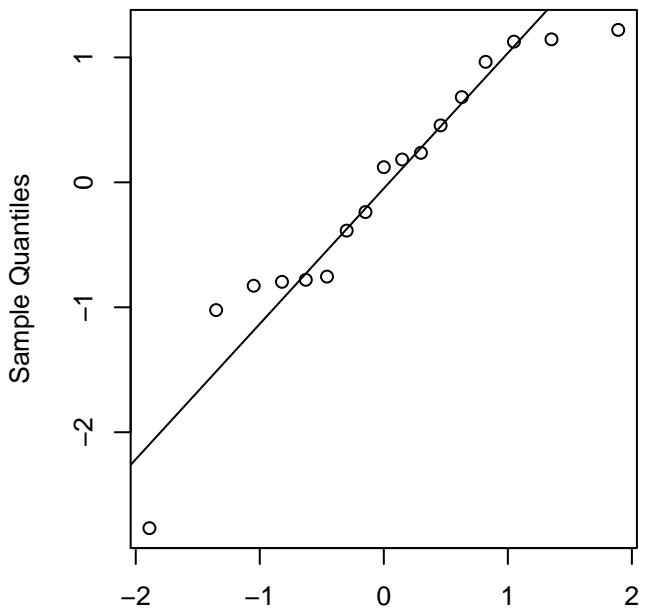
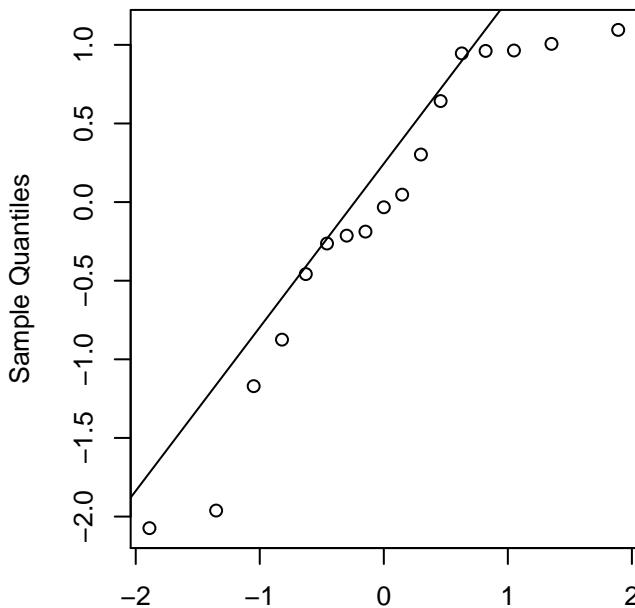
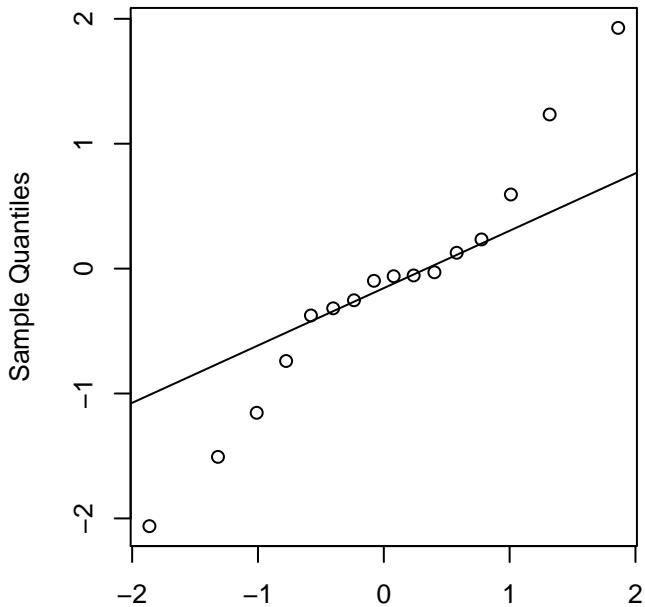


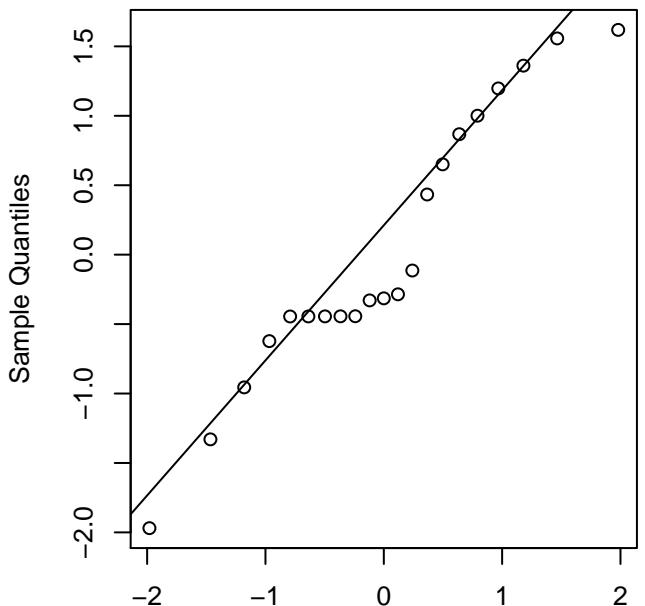
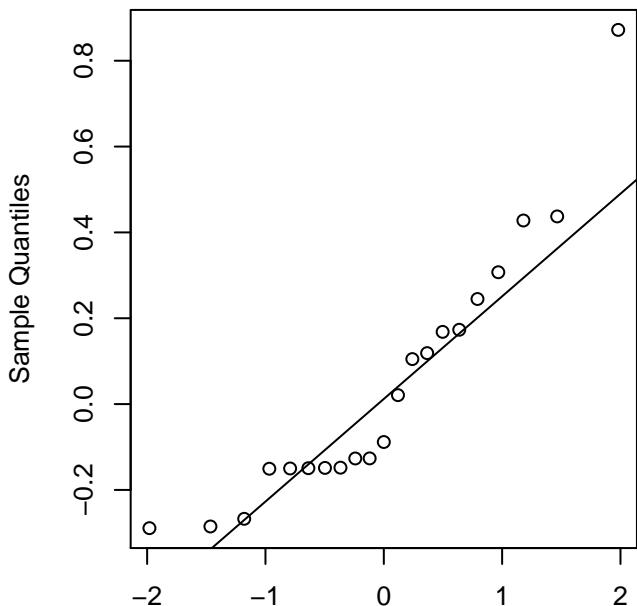
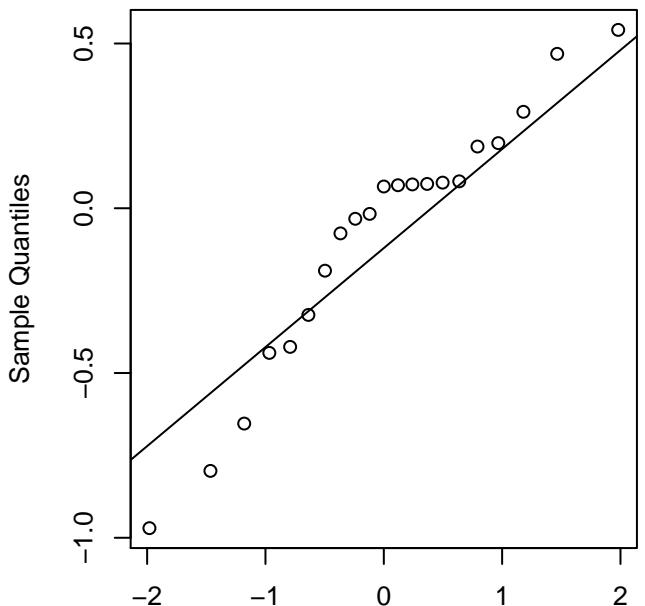
State X.SJI

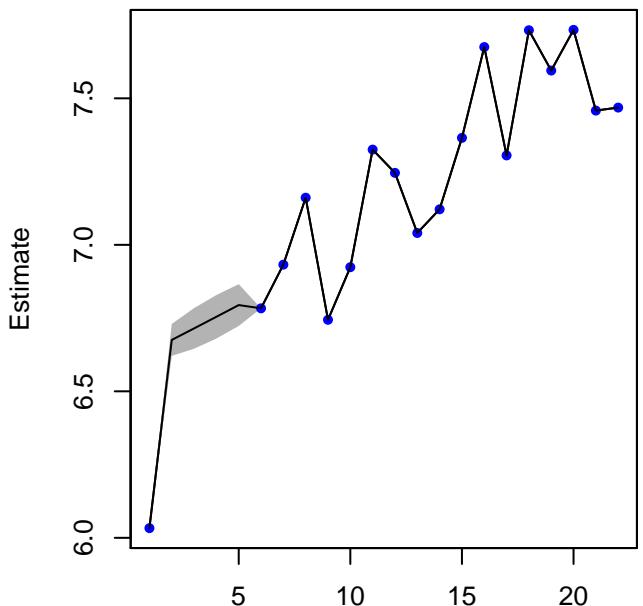
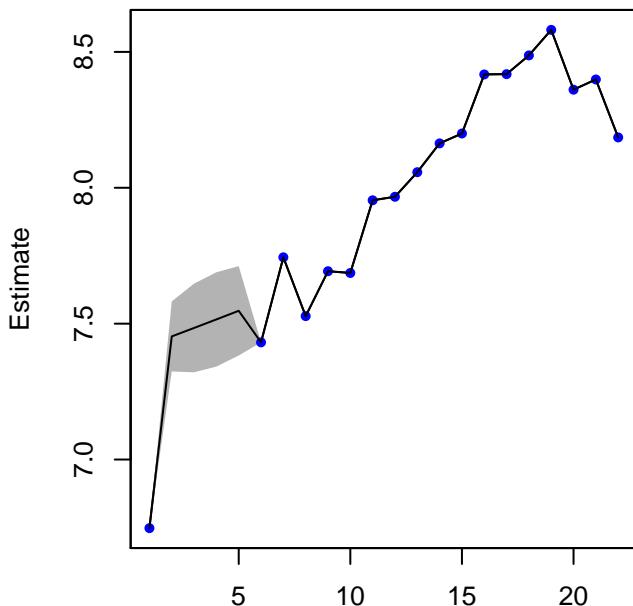
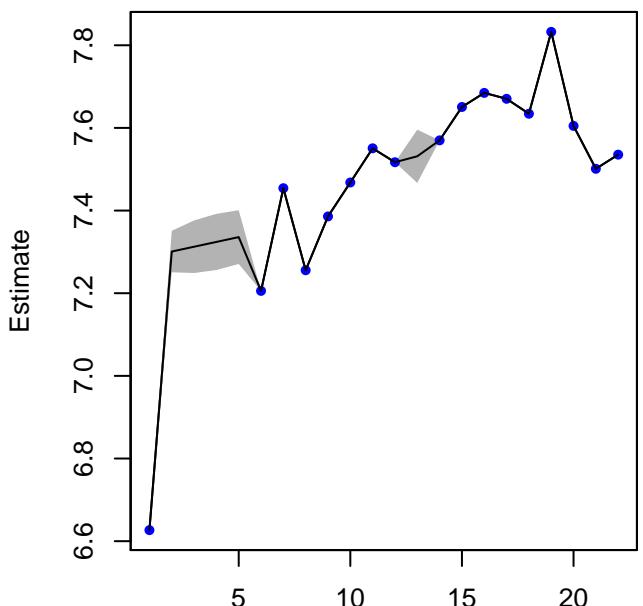


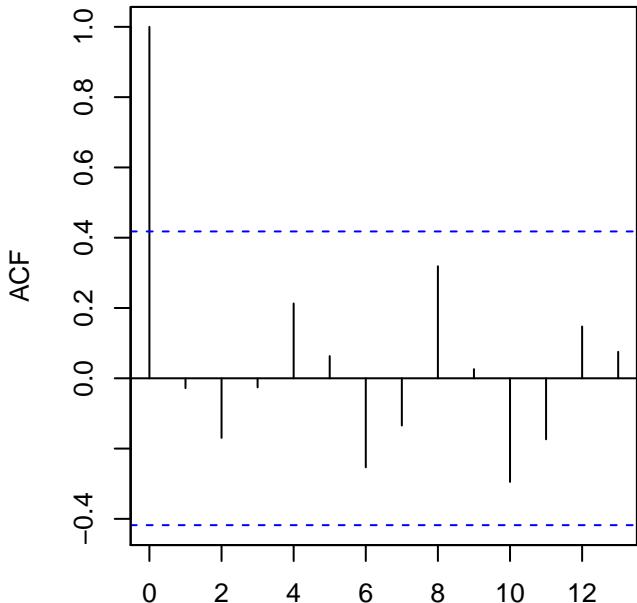
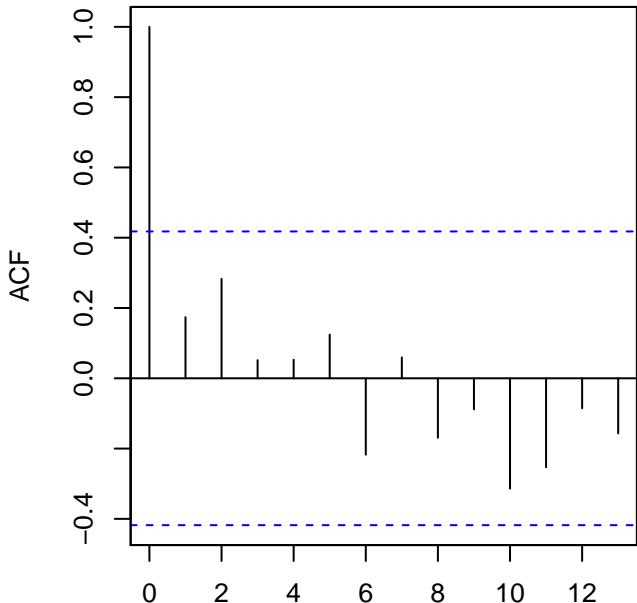
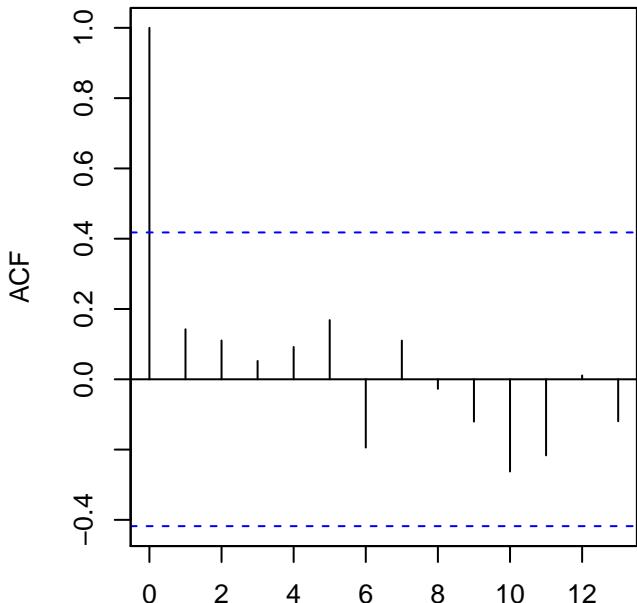
State X.EBays



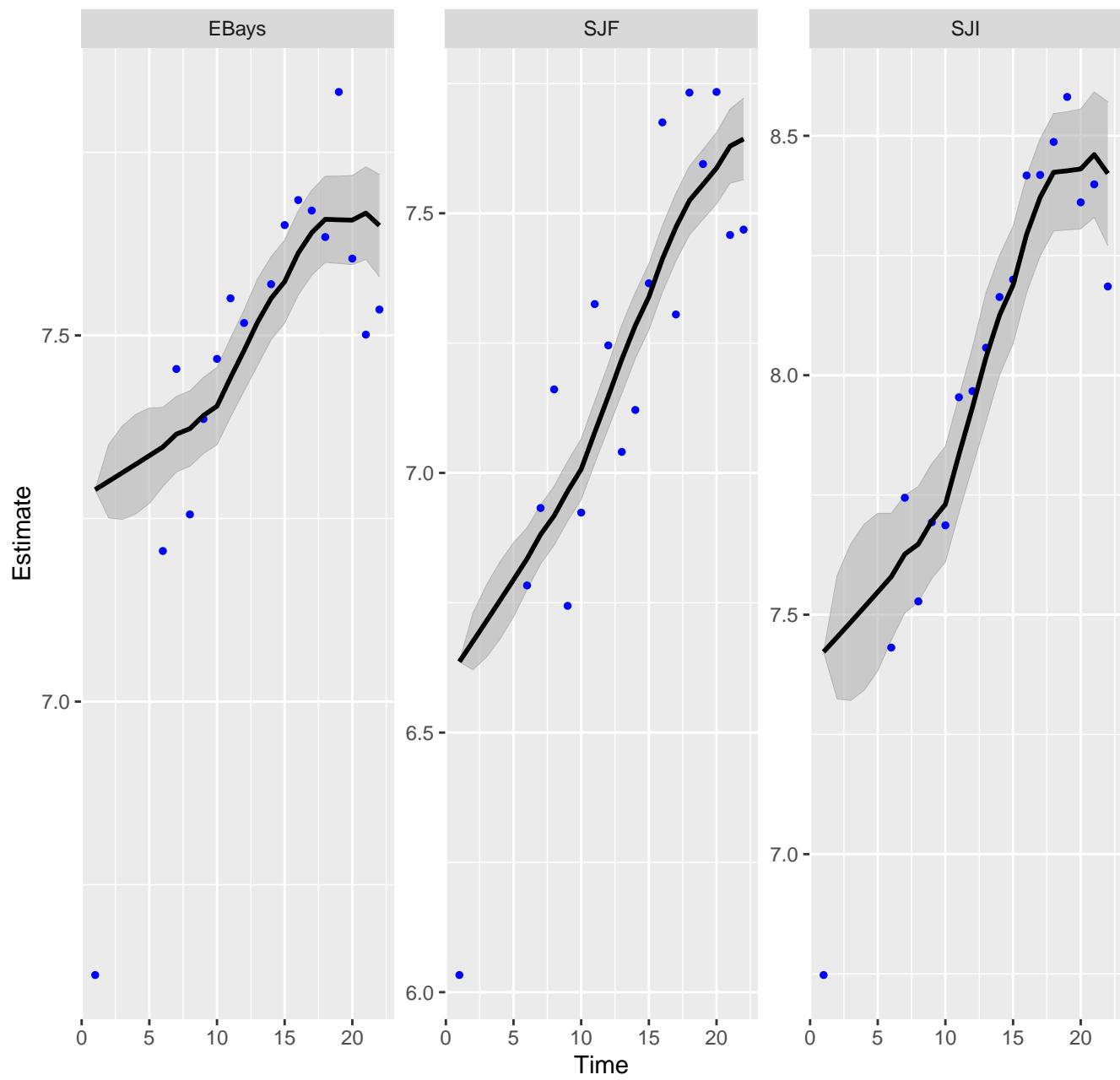
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

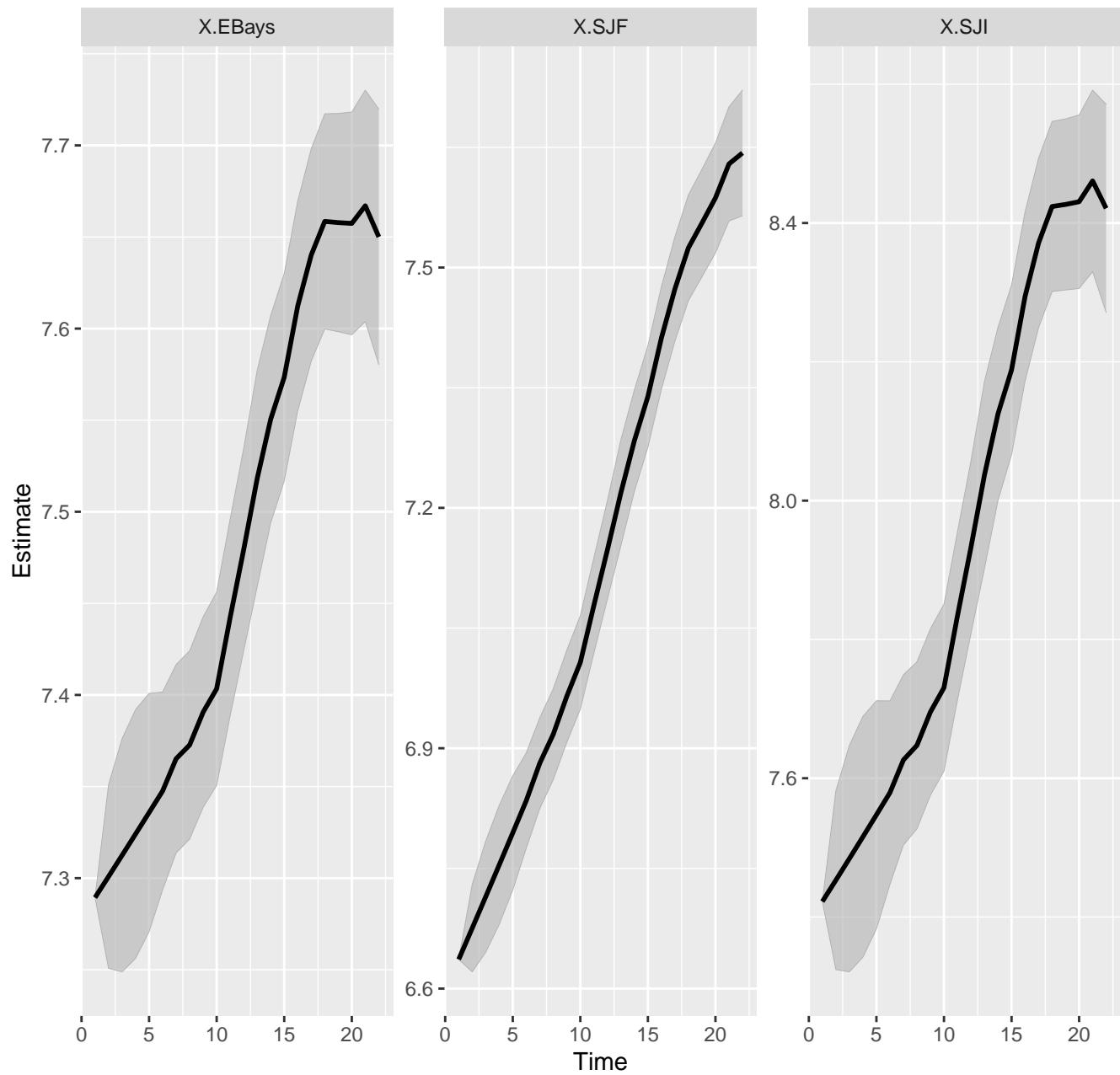
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

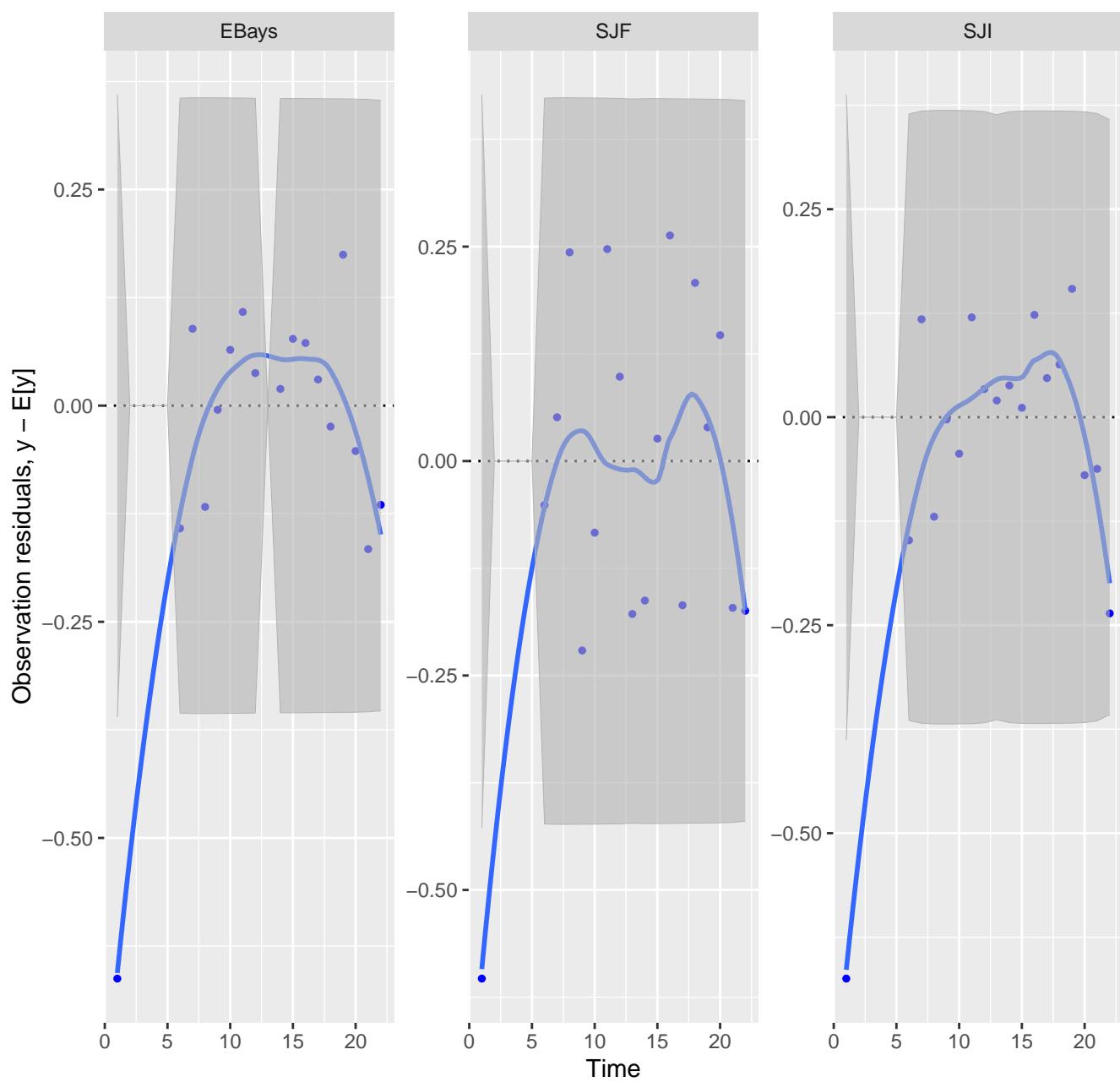
Model fitted Y + CI



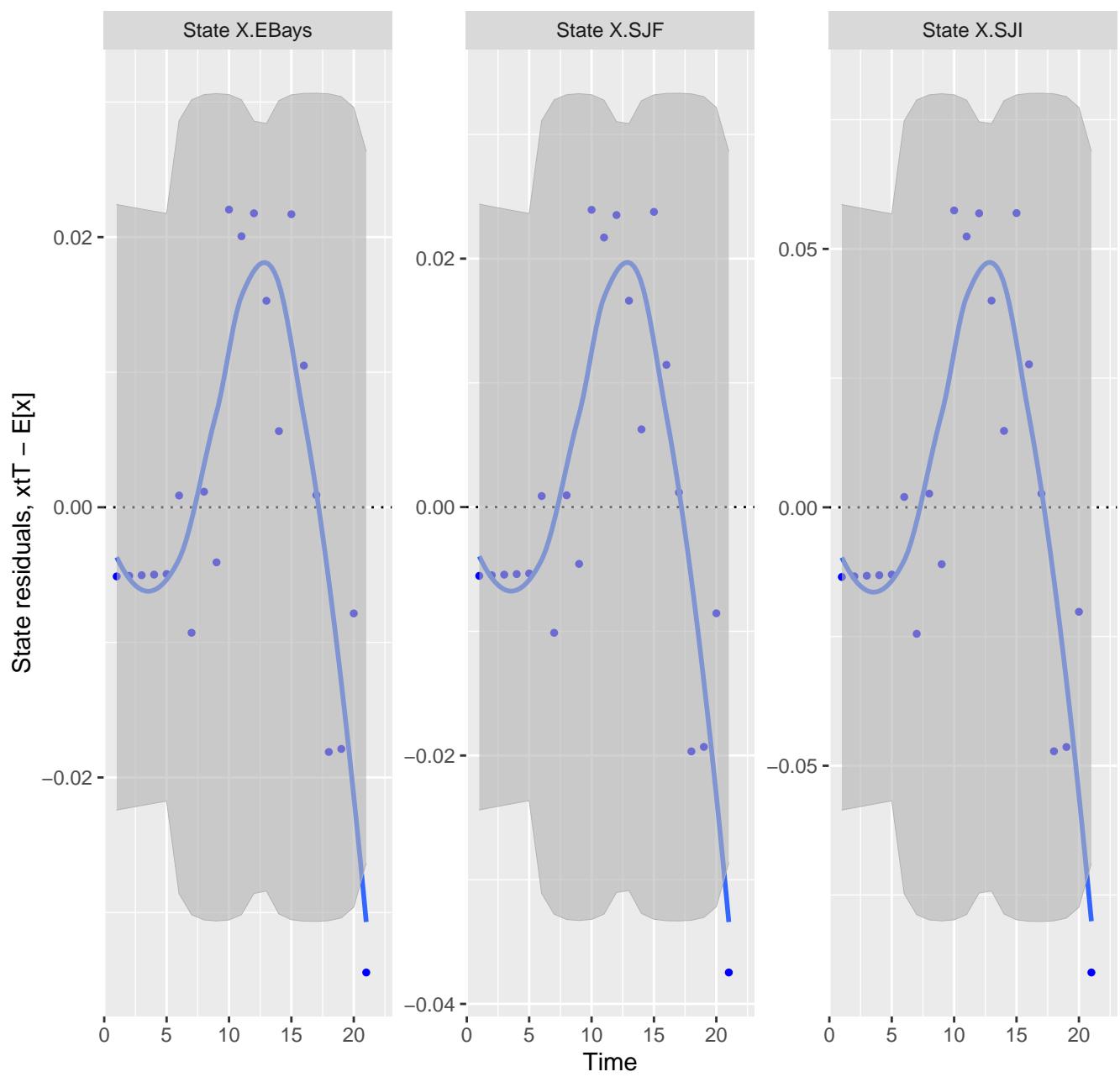
States



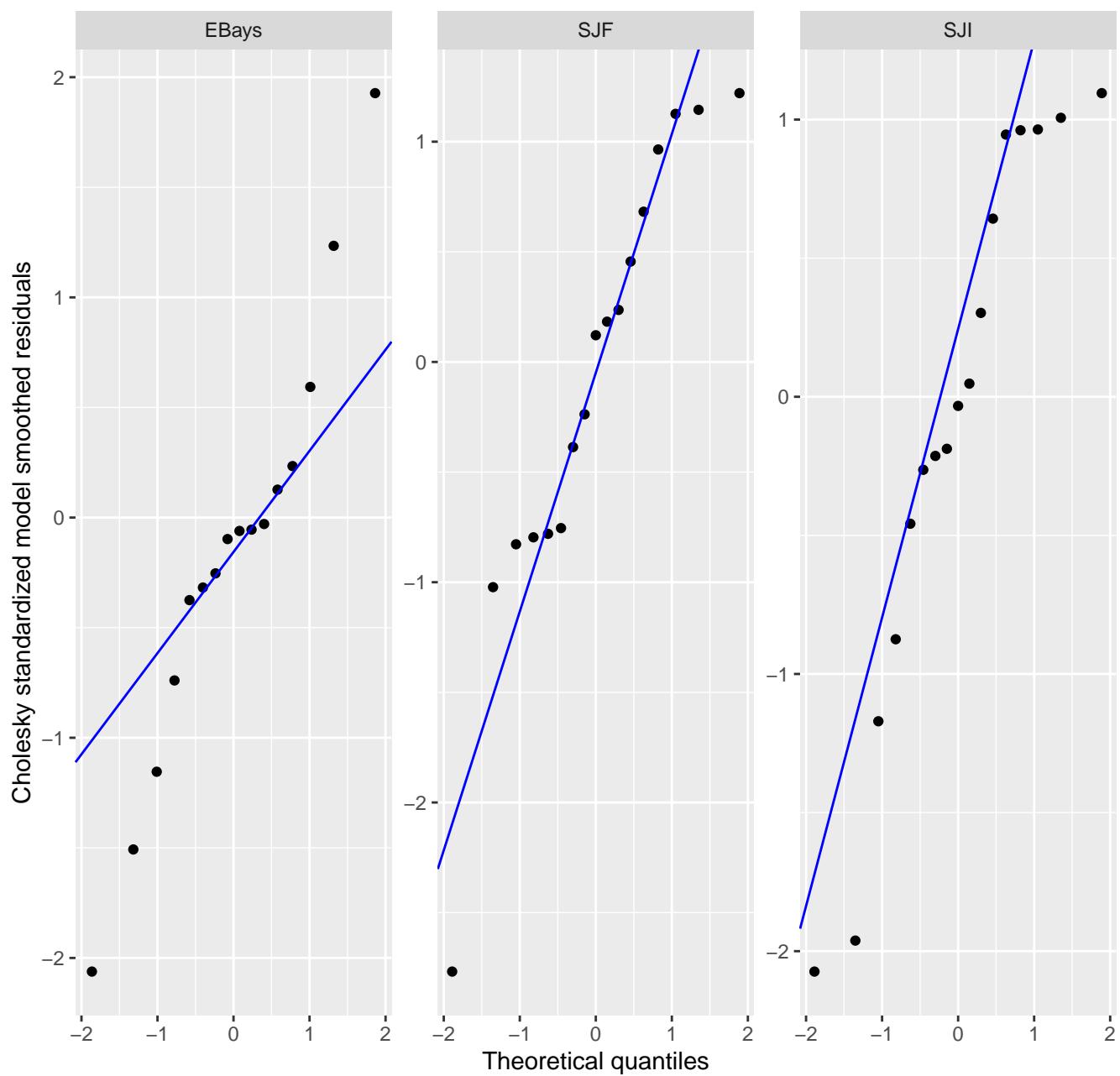
Model residuals



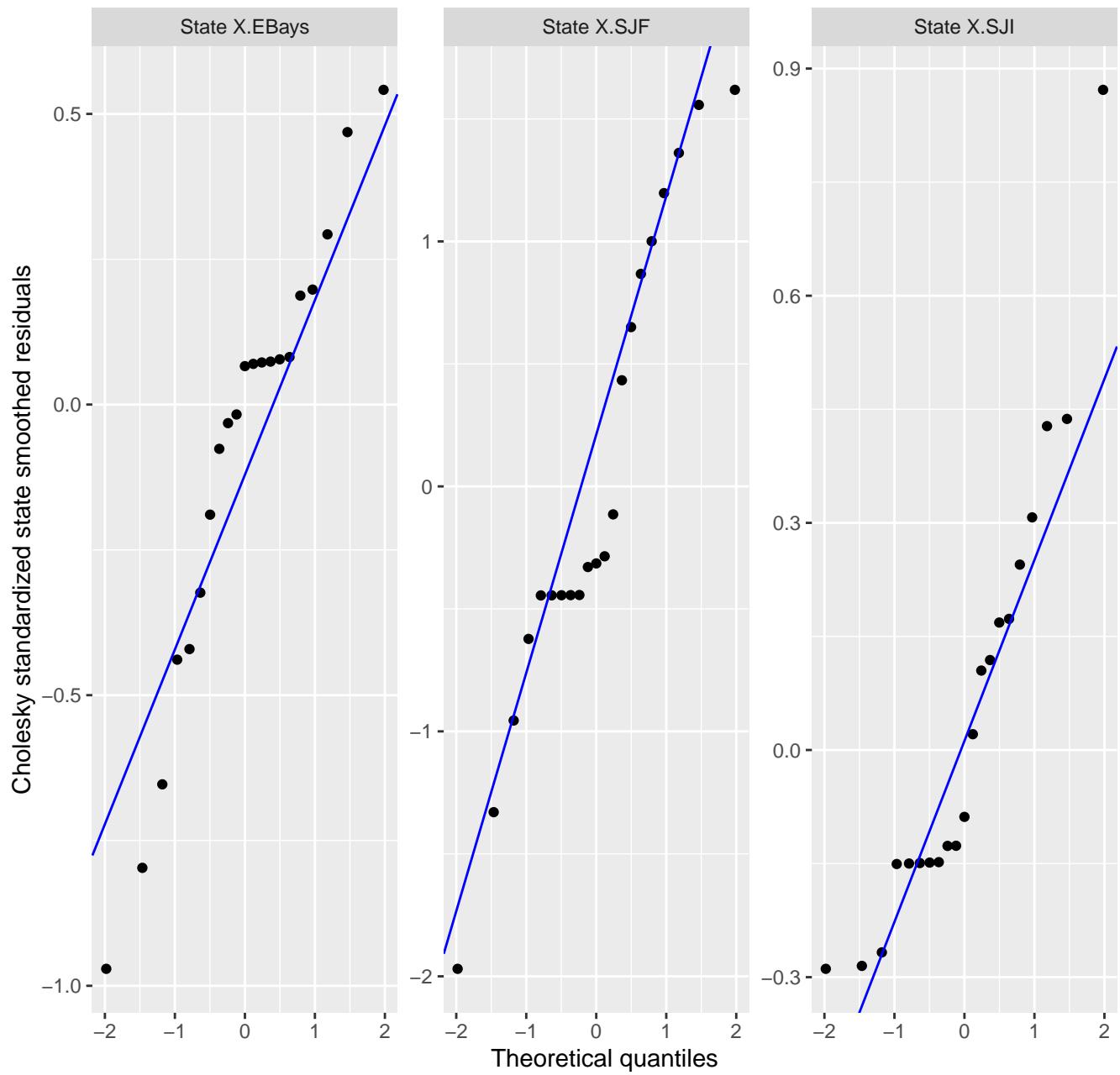
State residuals



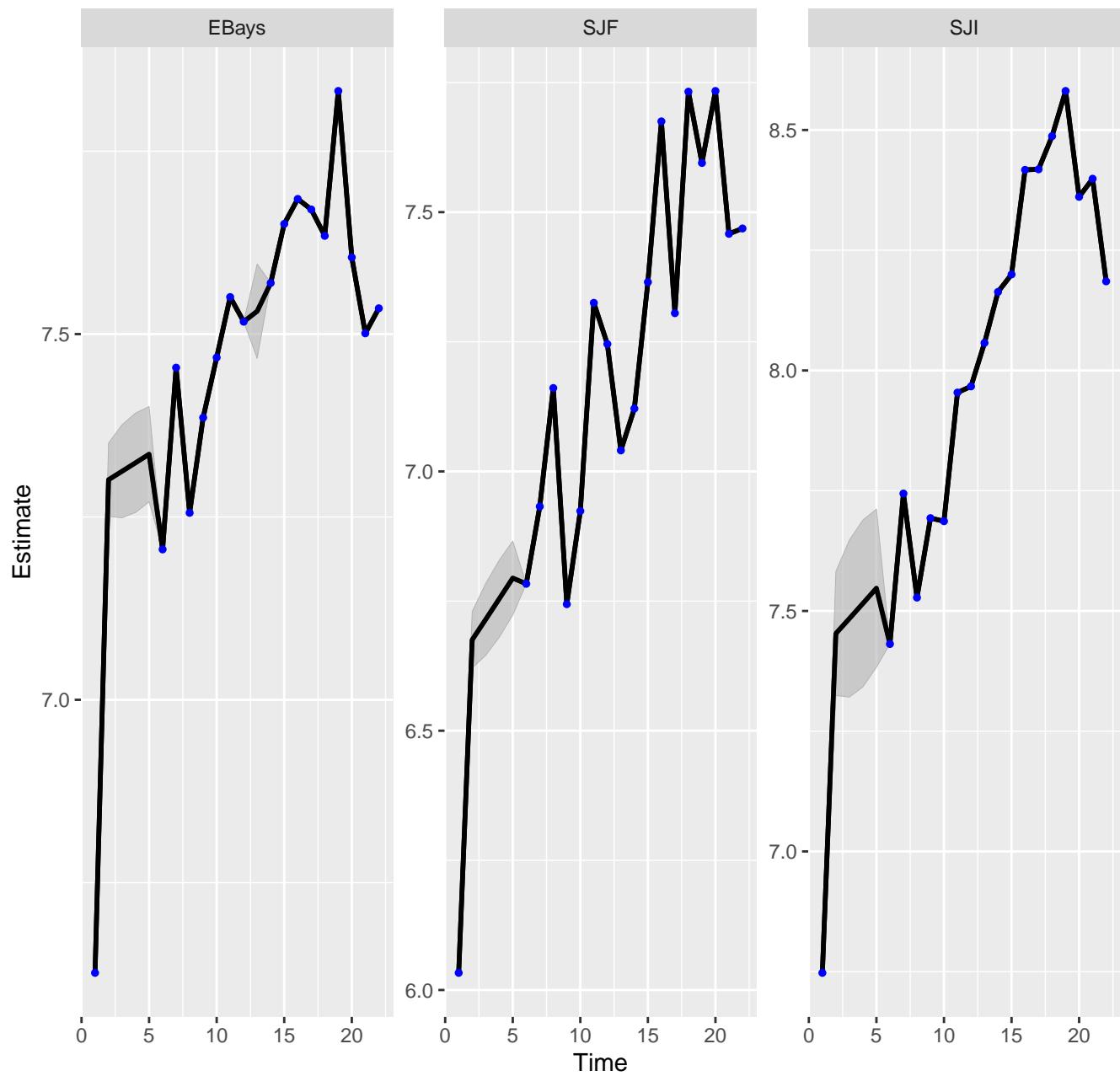
Model residuals normality test



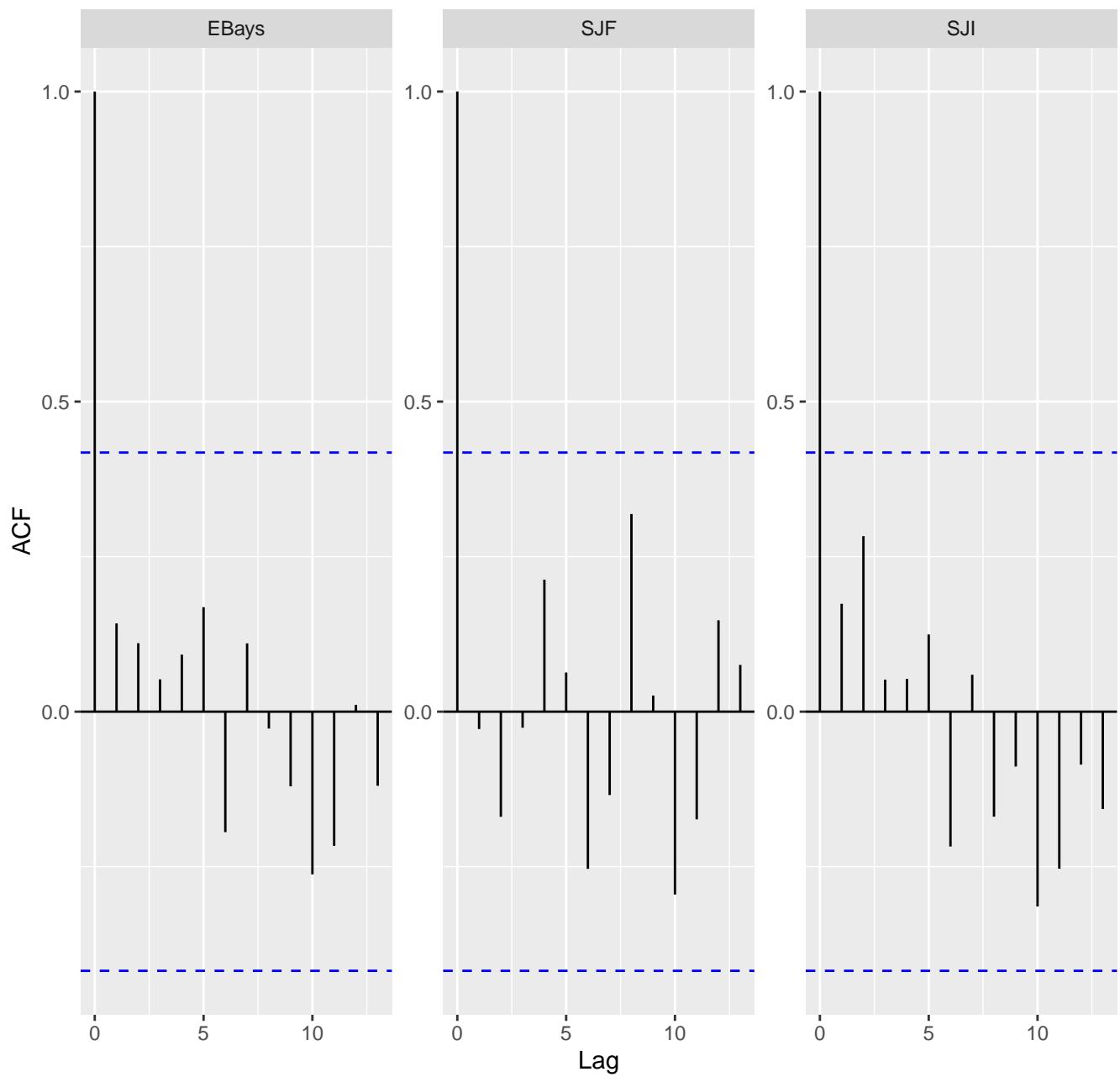
State residuals normality test

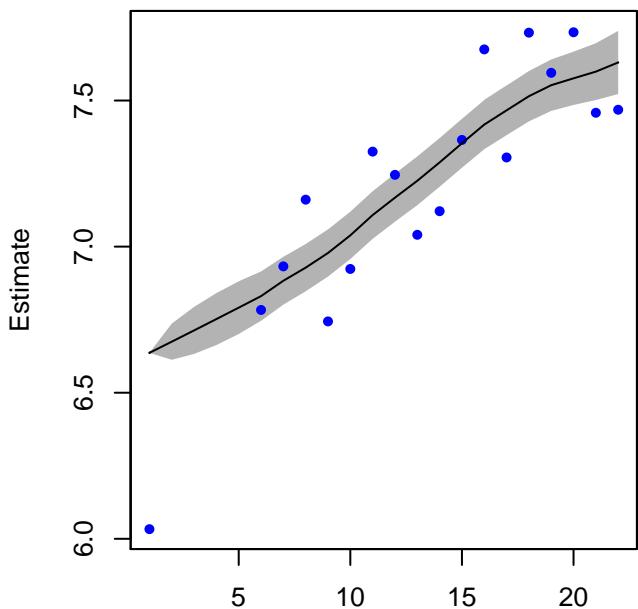
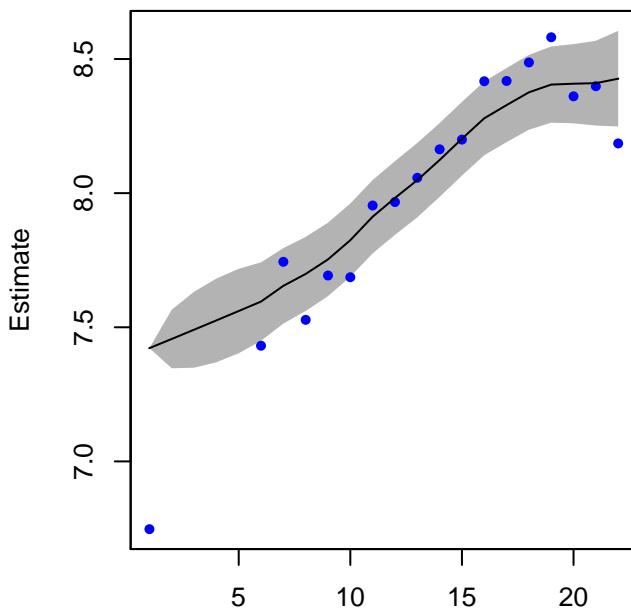
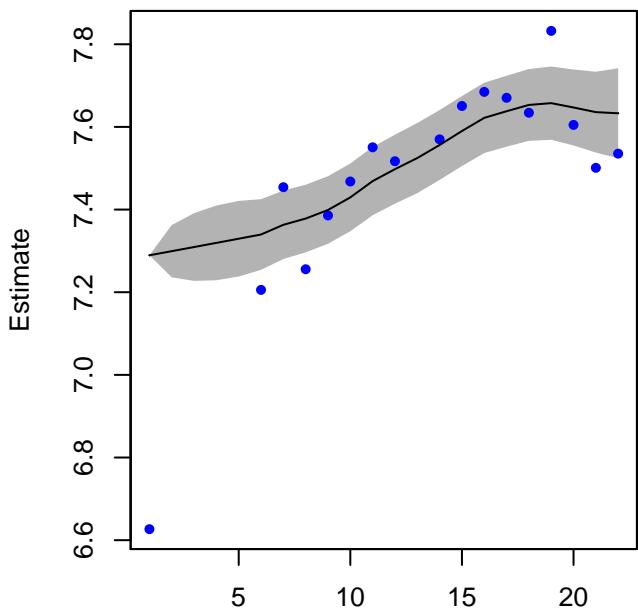


Expected value of Y conditioned on data

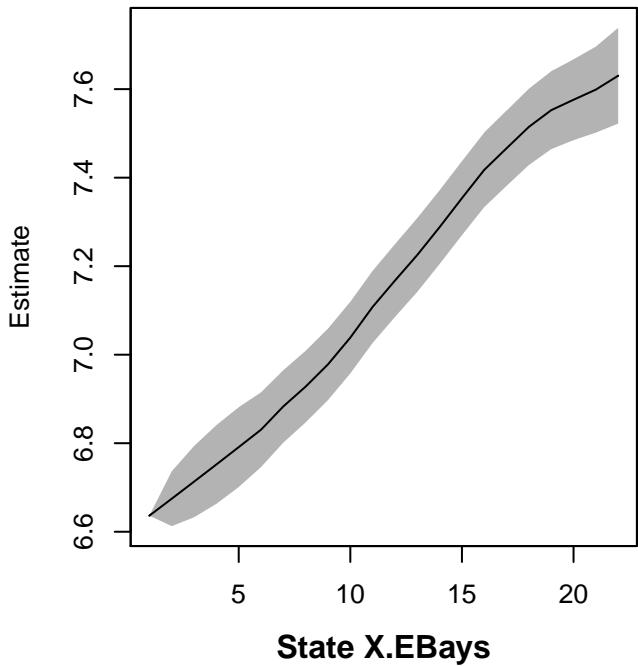


Model innovations residuals ACF

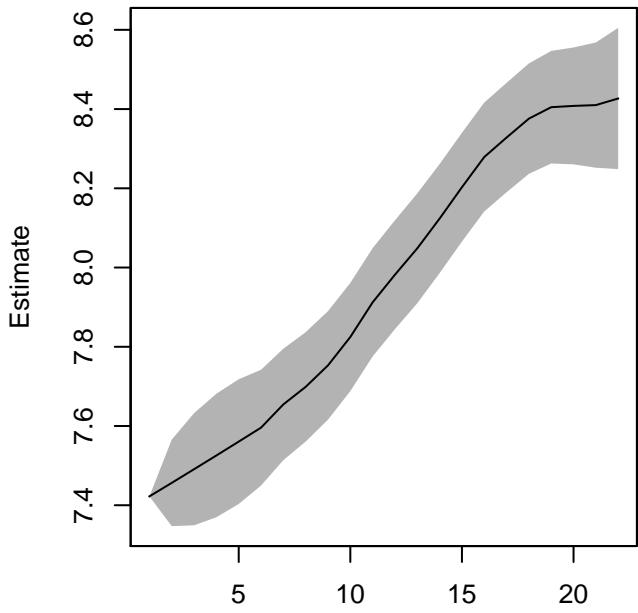


SJF + CI**SJI + CI****EBays + CI**

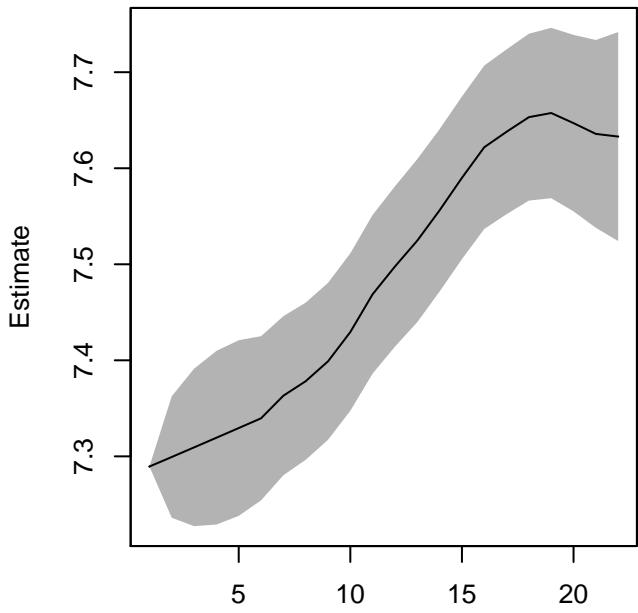
State X.SJF



State X.SJI

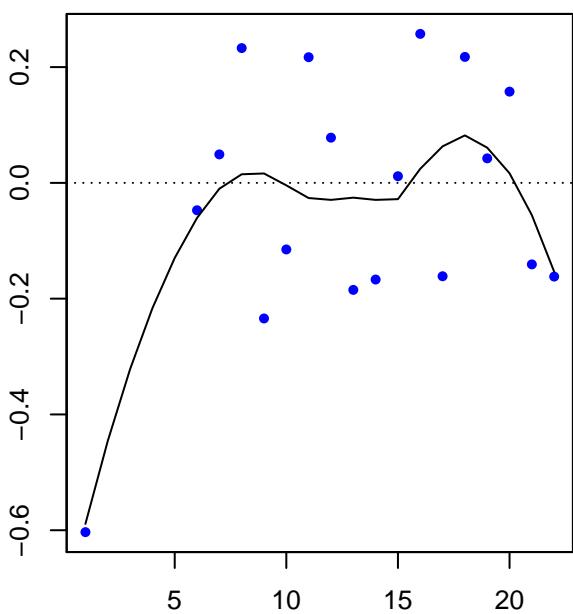


State X.EBays

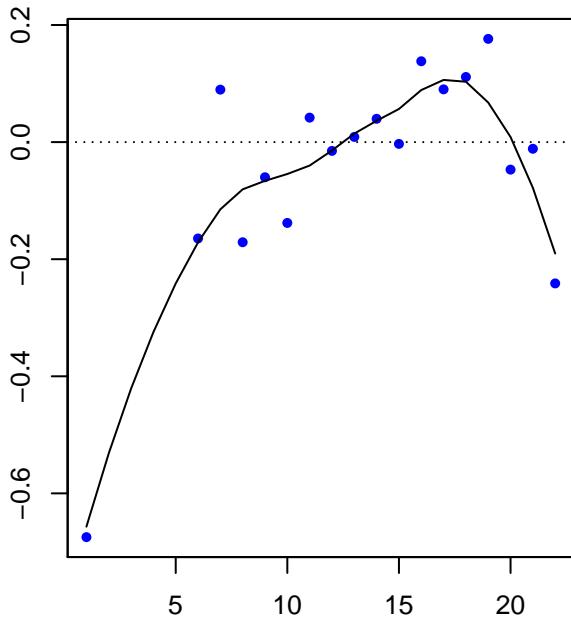


Observation residuals, $y - E[y]$

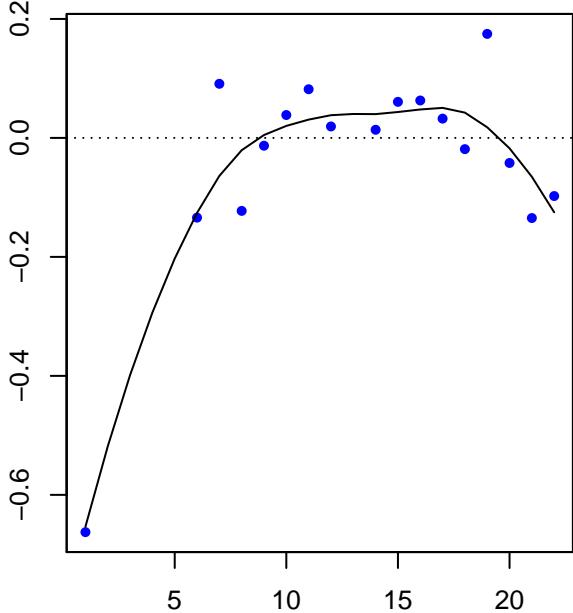
SJF



SJI

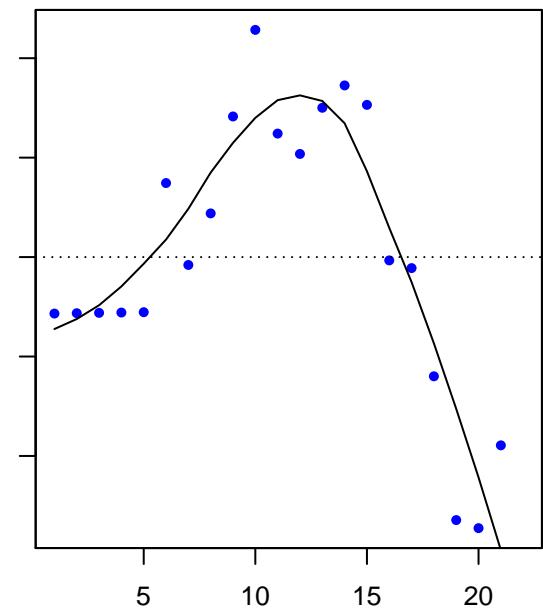


EBays

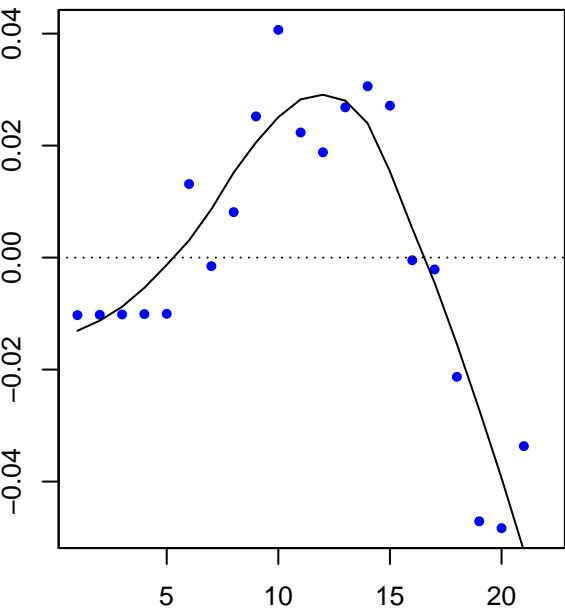


State X.SJF

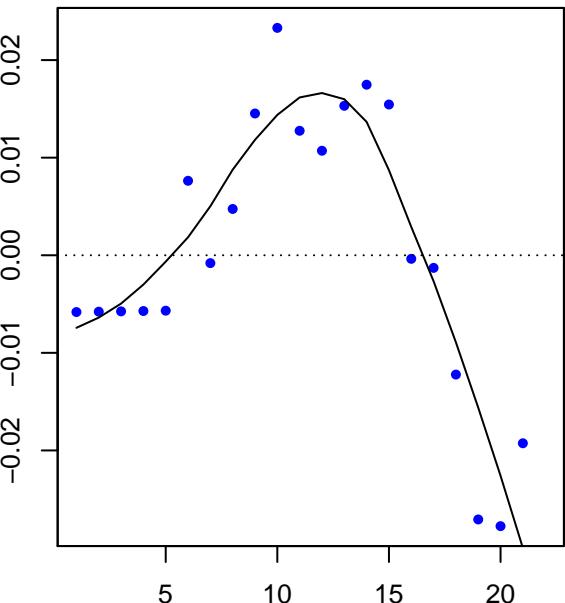
State residuals, $x_{tT} - E[x]$

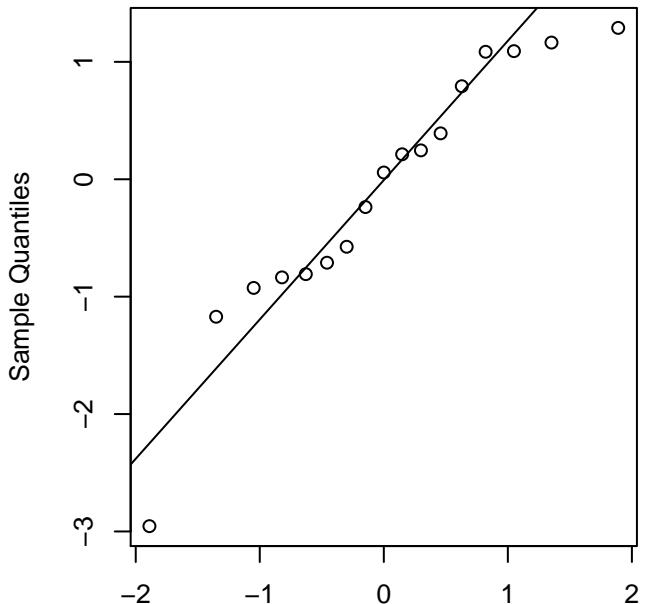
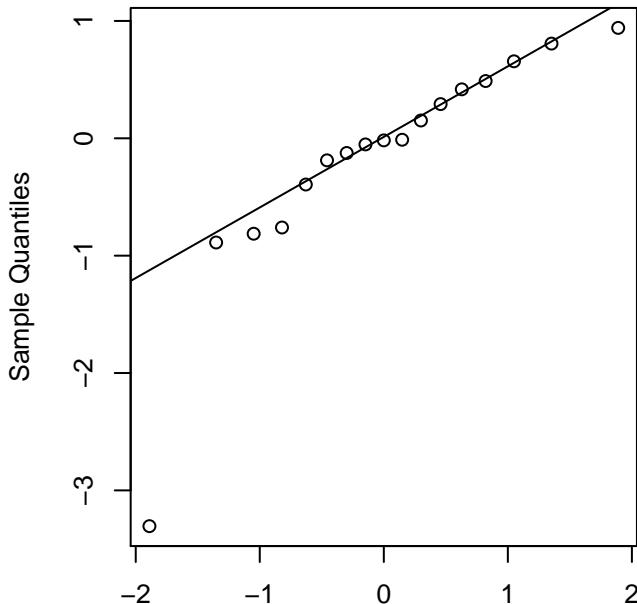
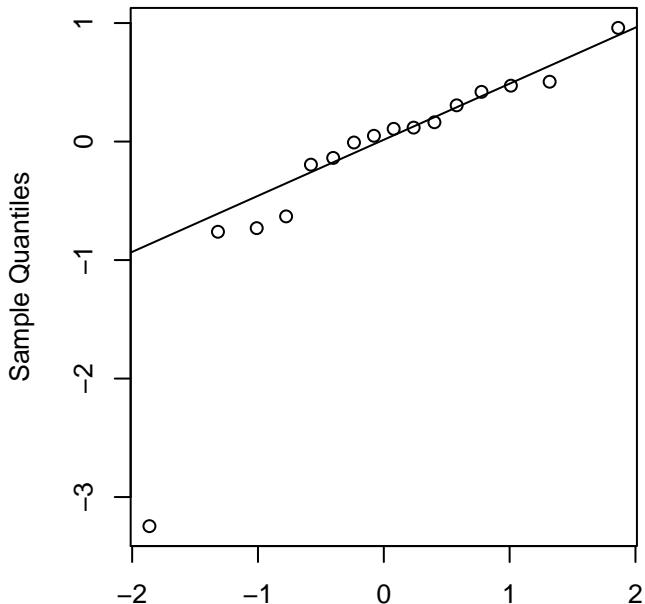


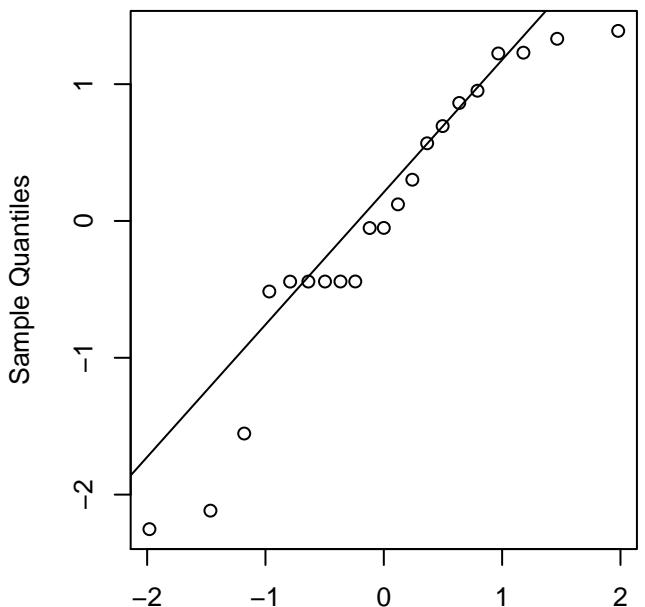
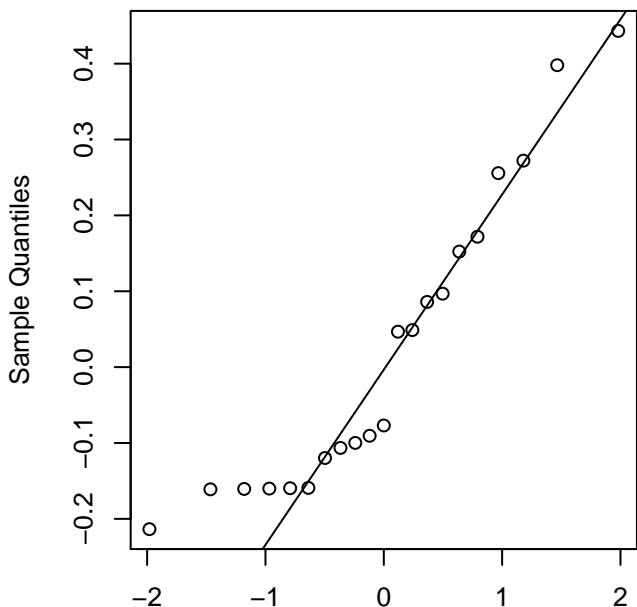
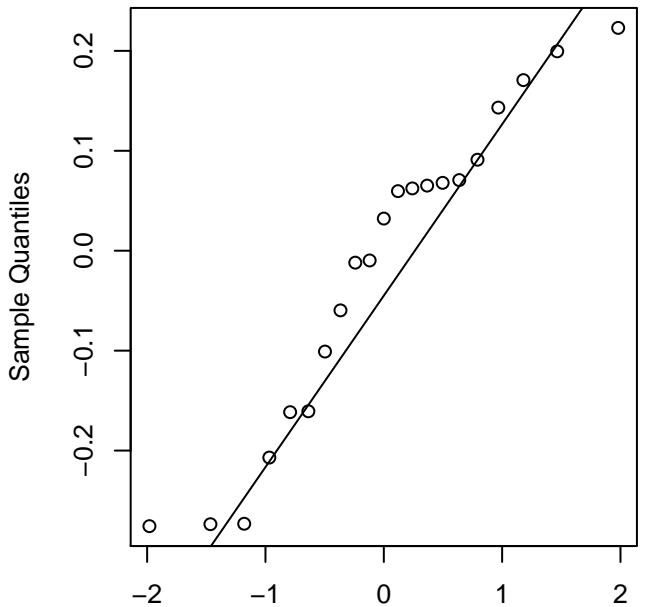
State X.SJI

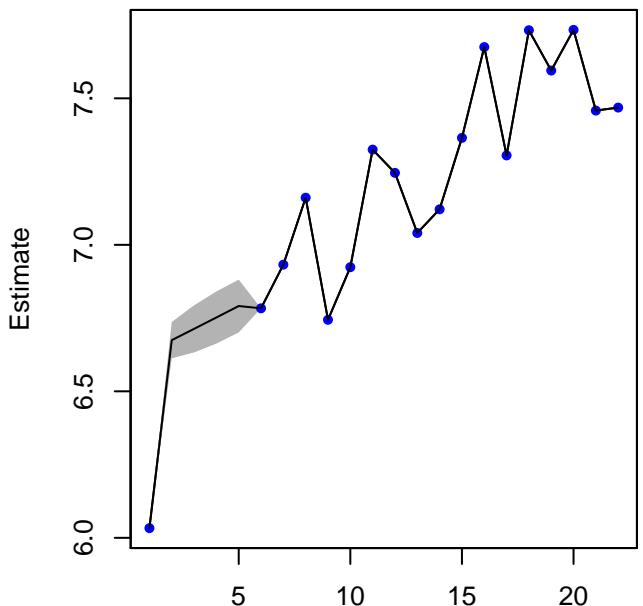
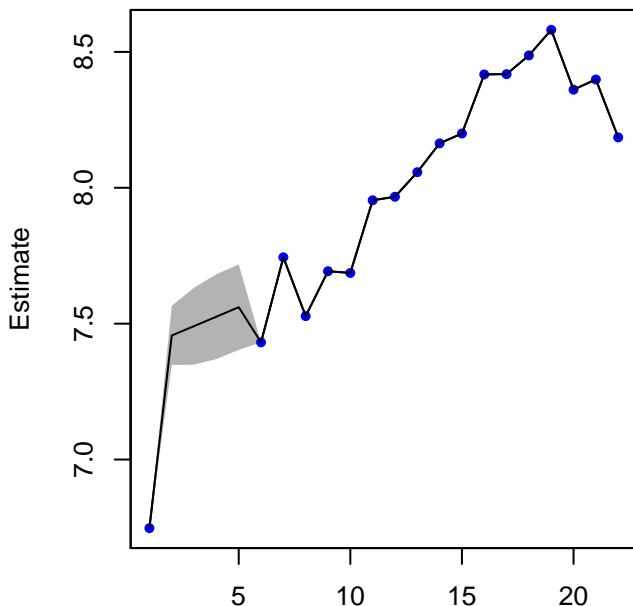
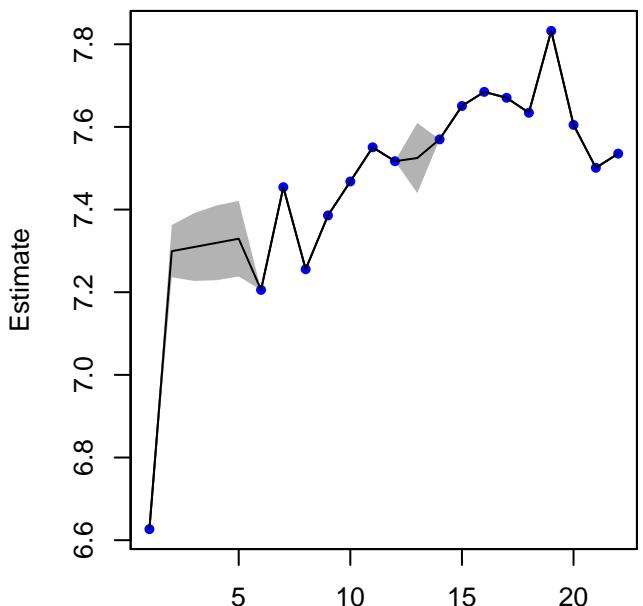


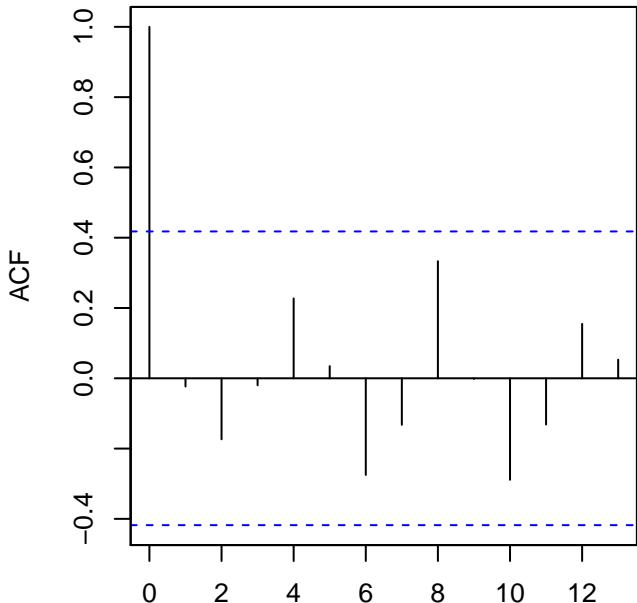
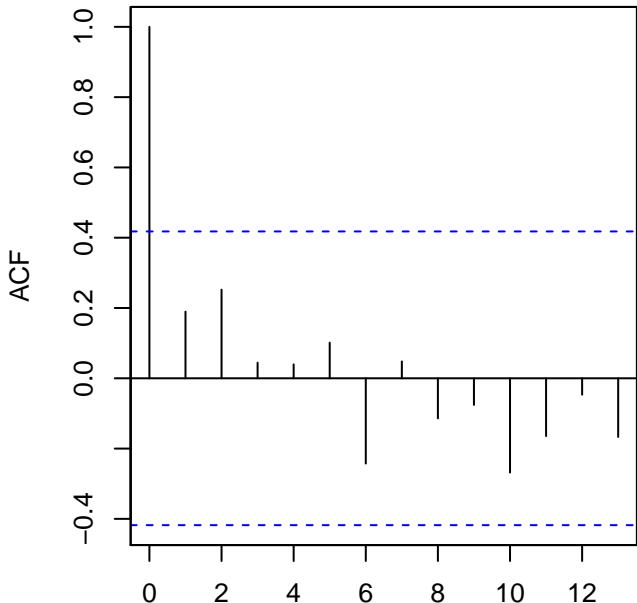
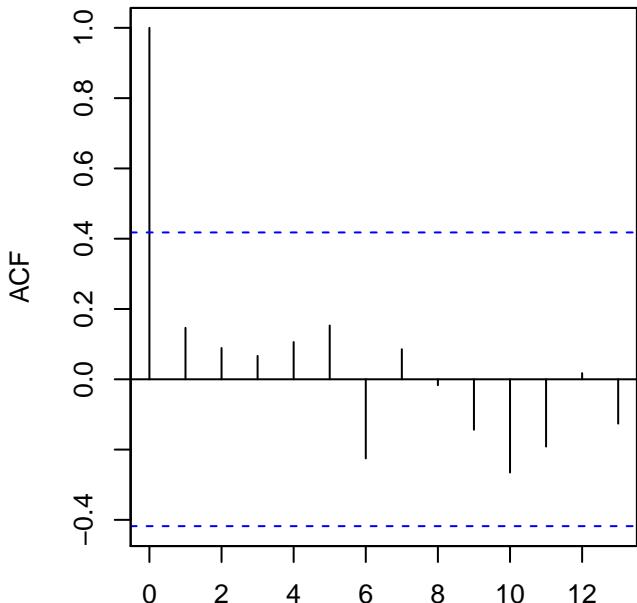
State X.EBays



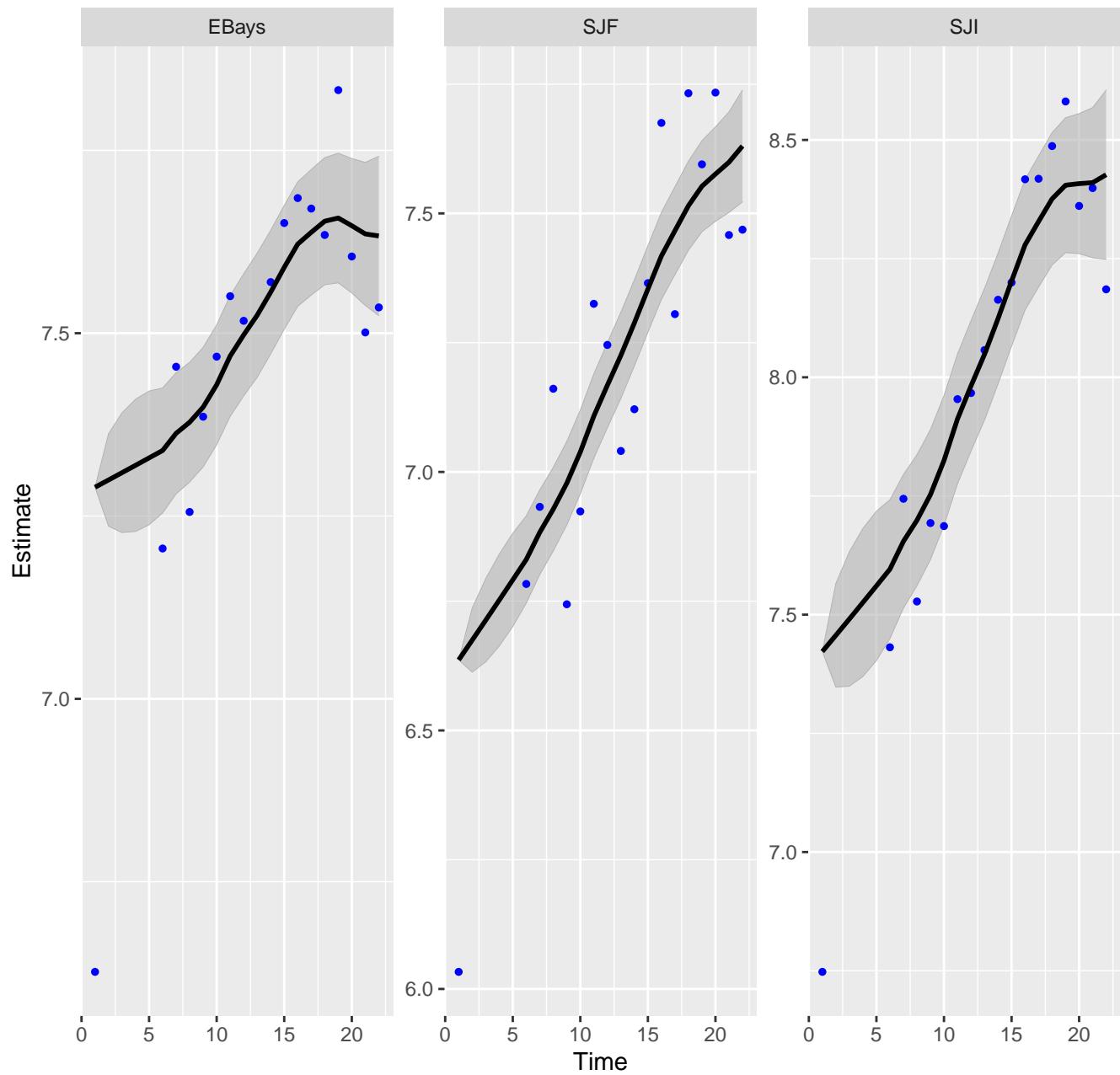
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

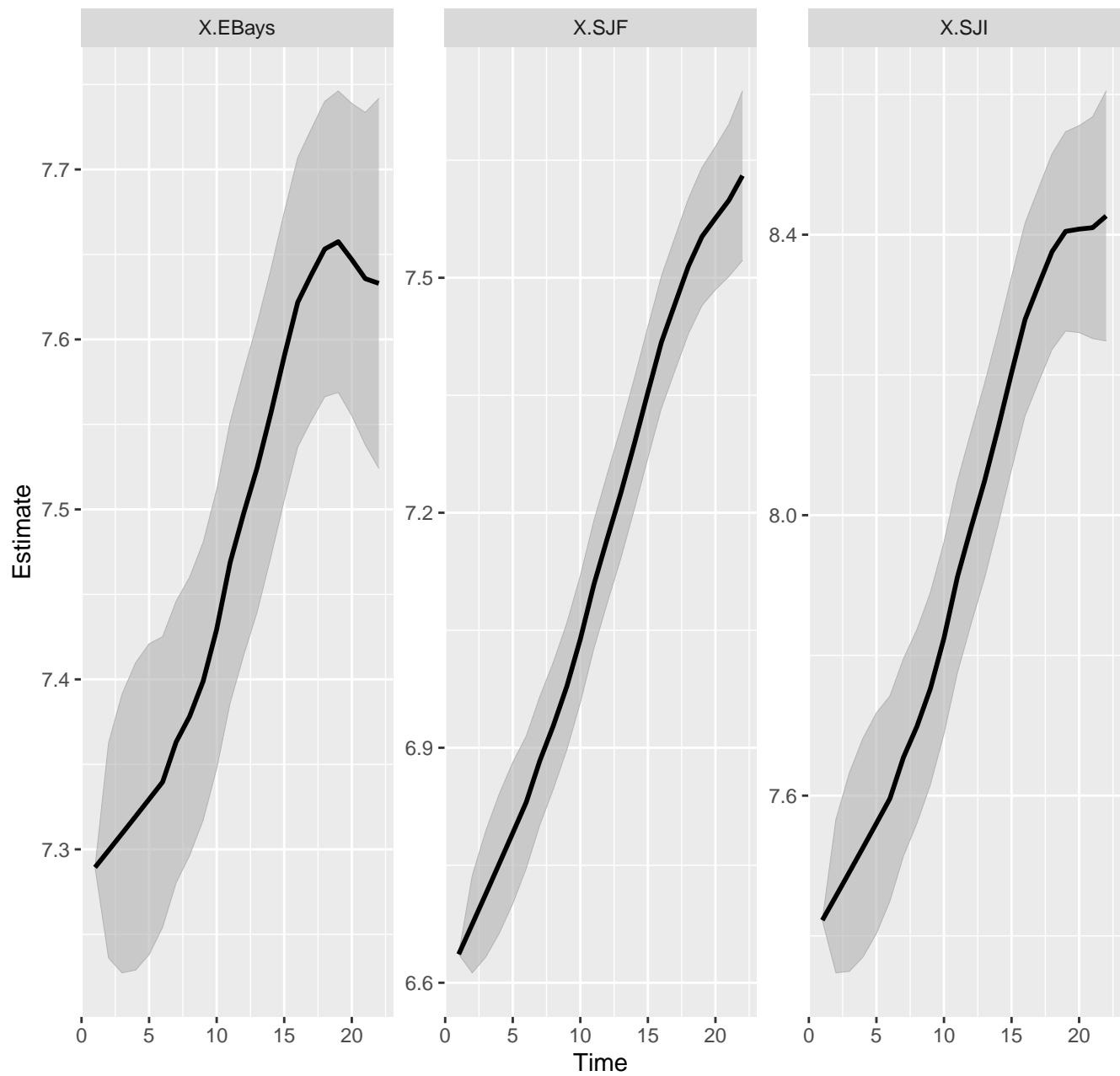
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

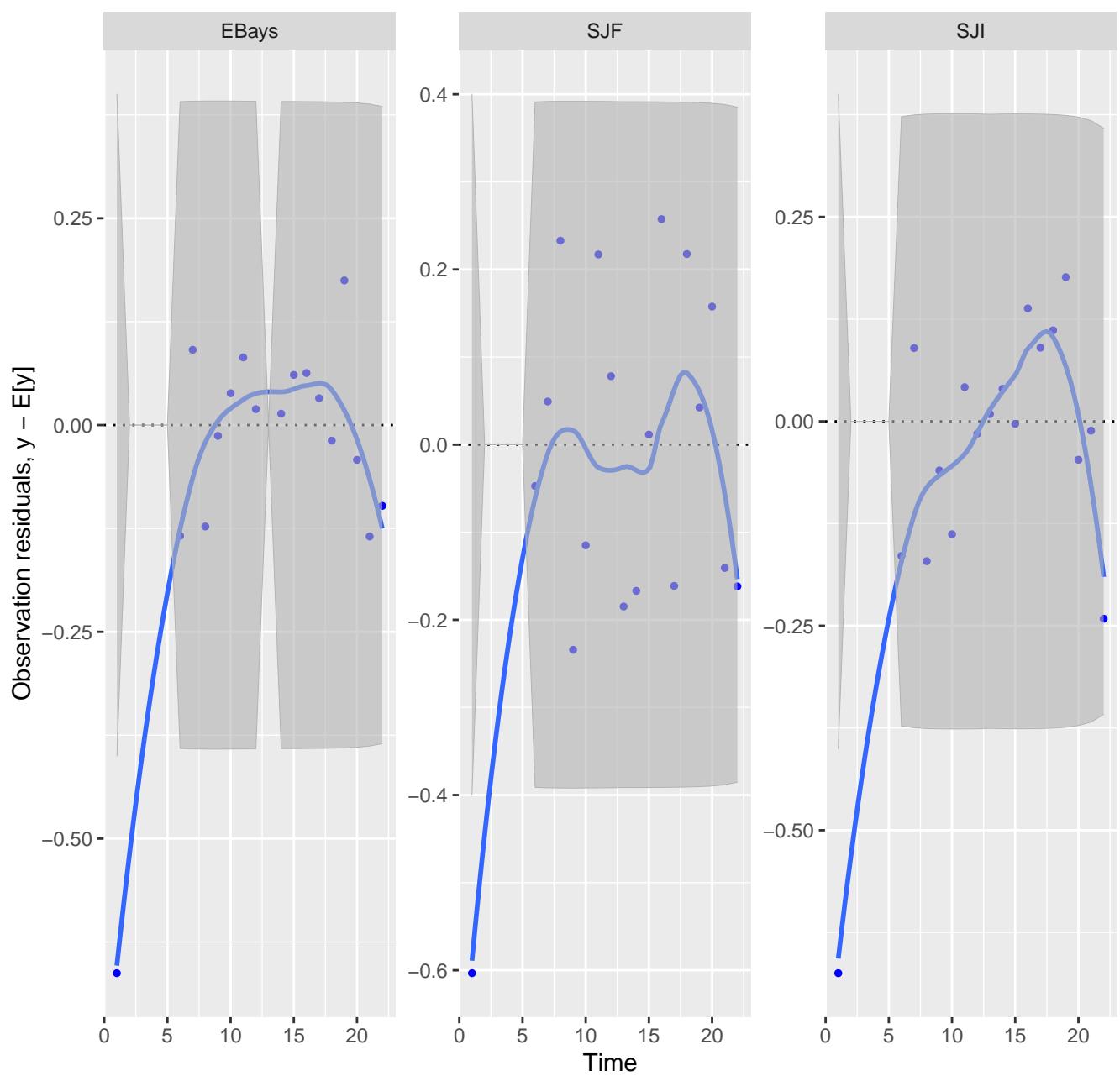
Model fitted Y + CI



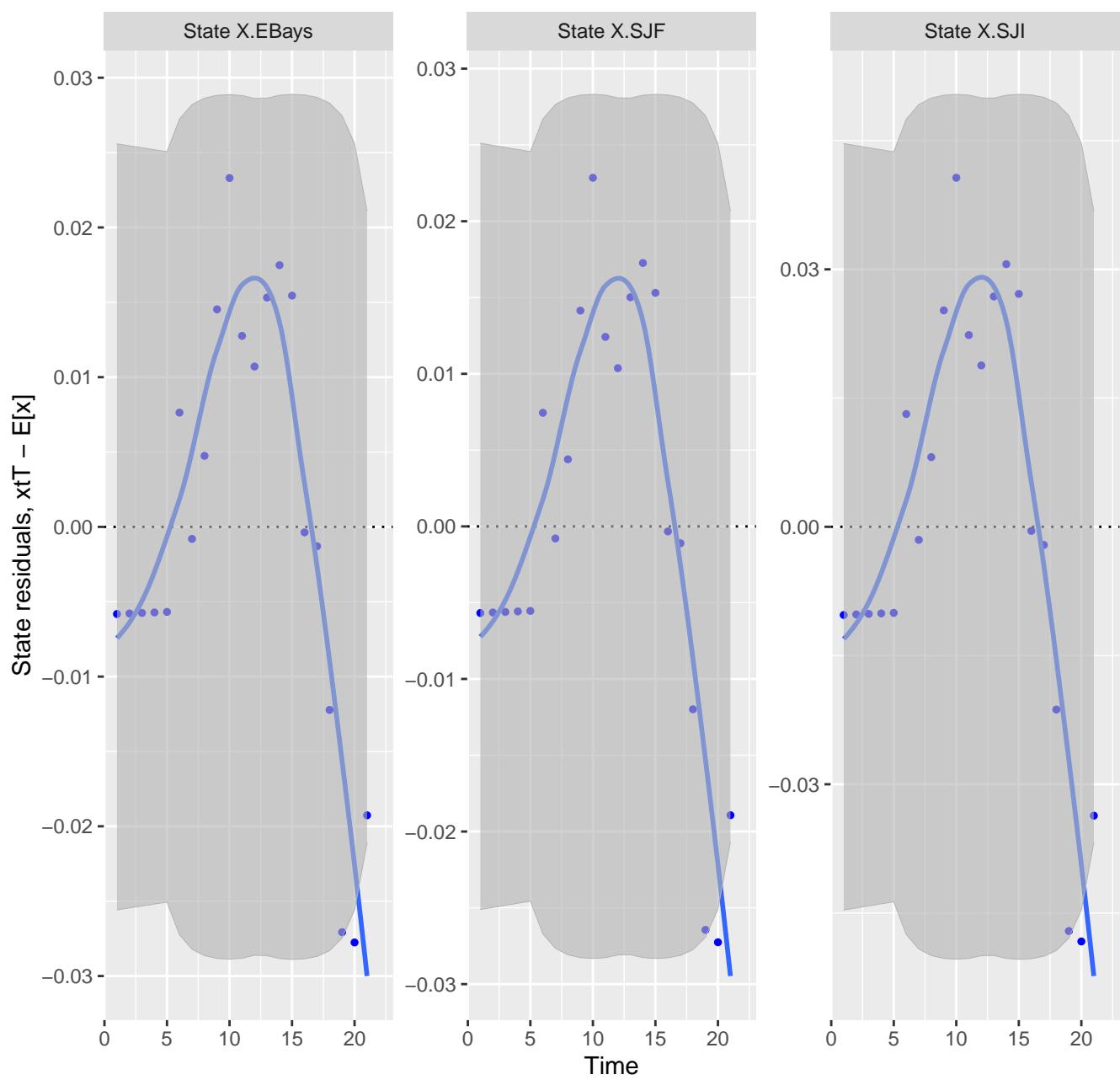
States



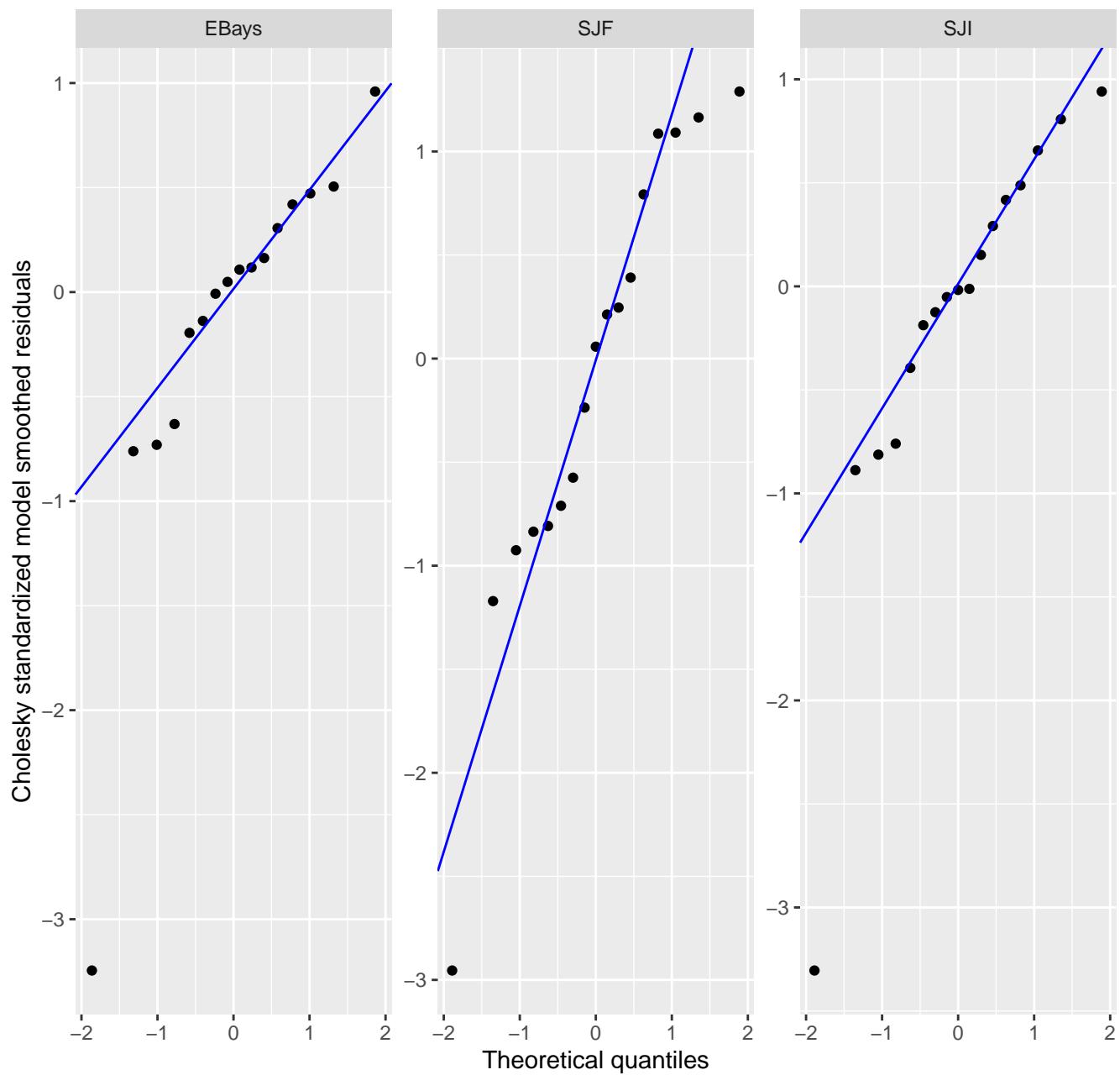
Model residuals



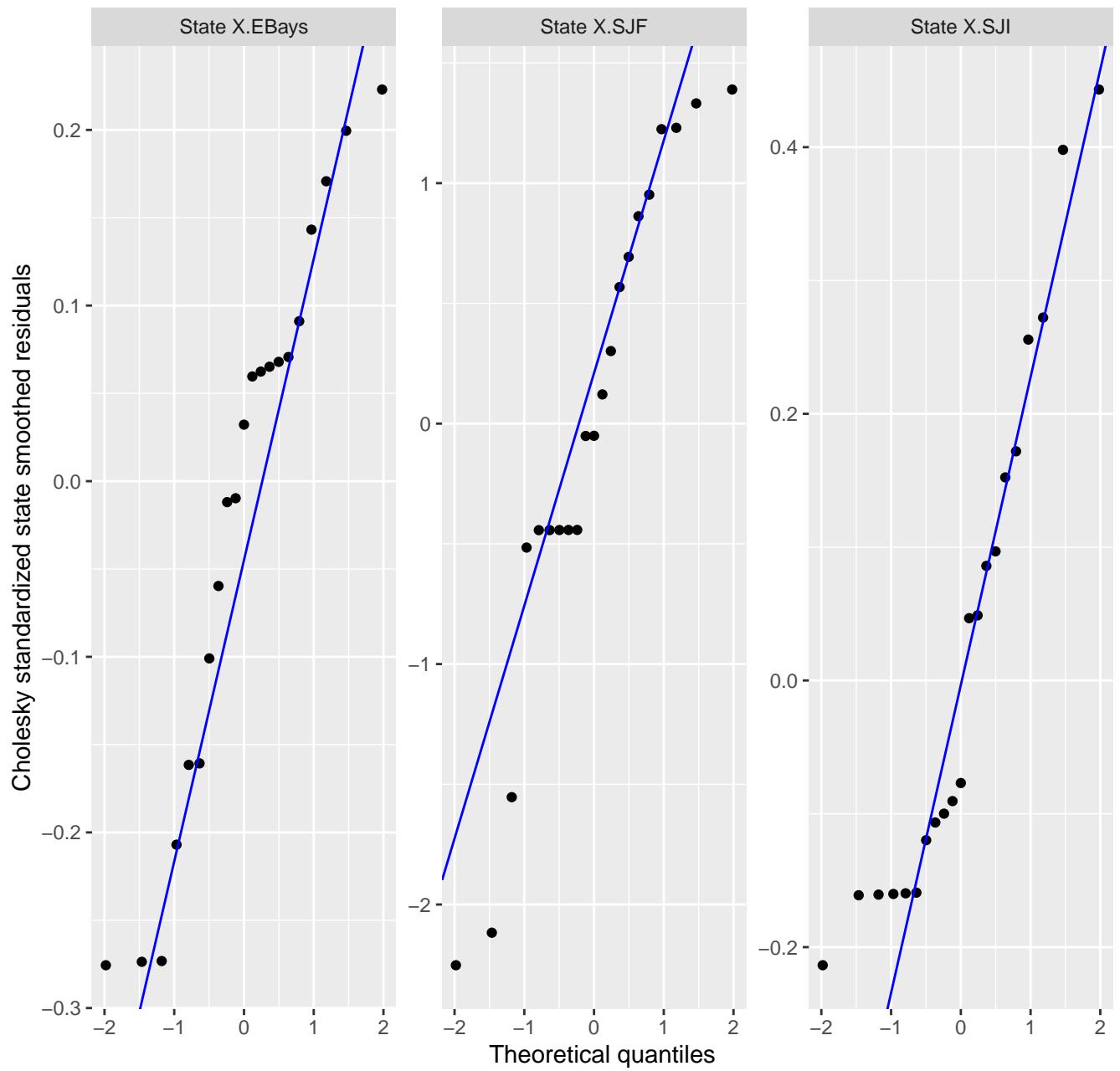
State residuals



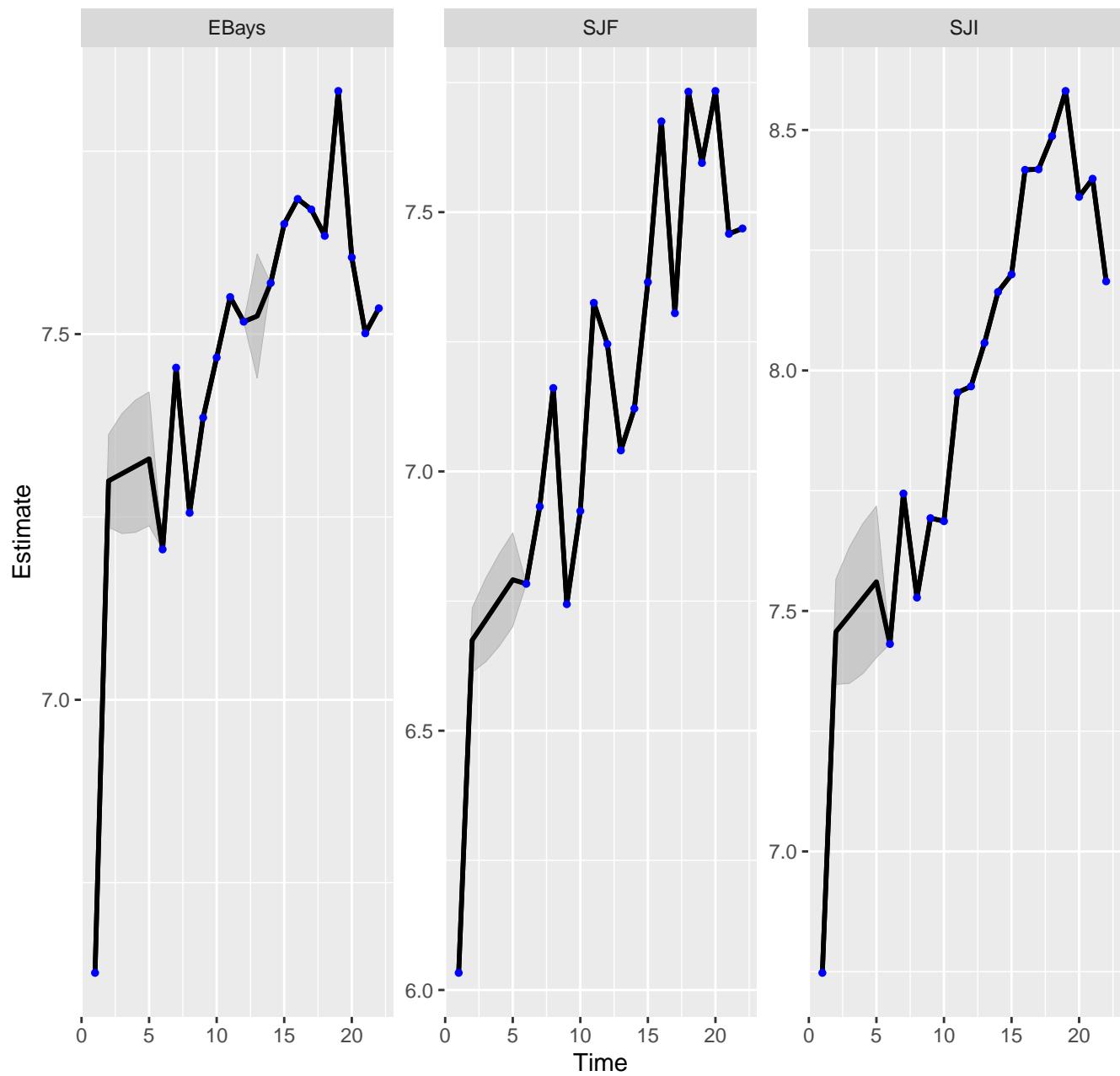
Model residuals normality test



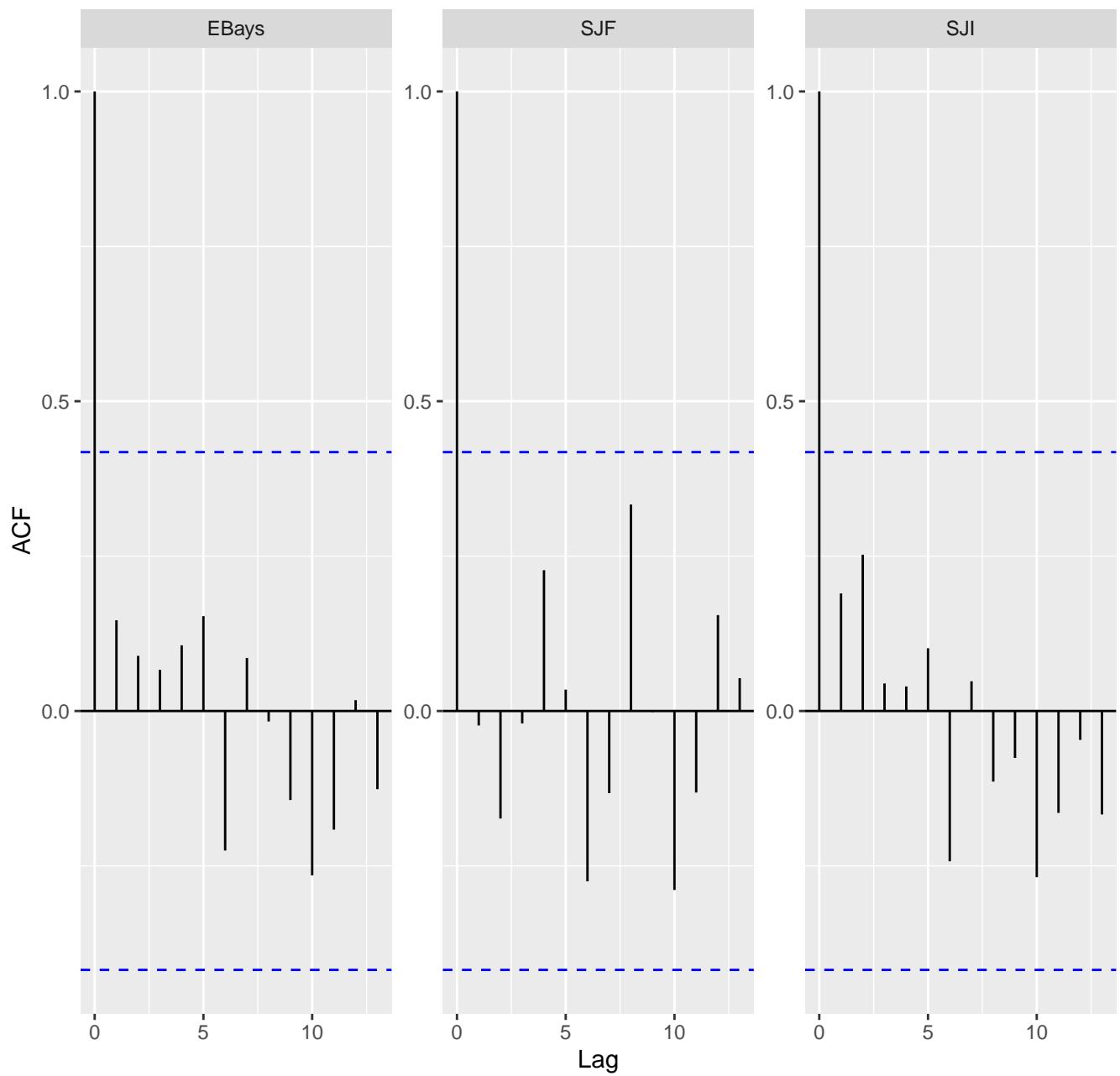
State residuals normality test

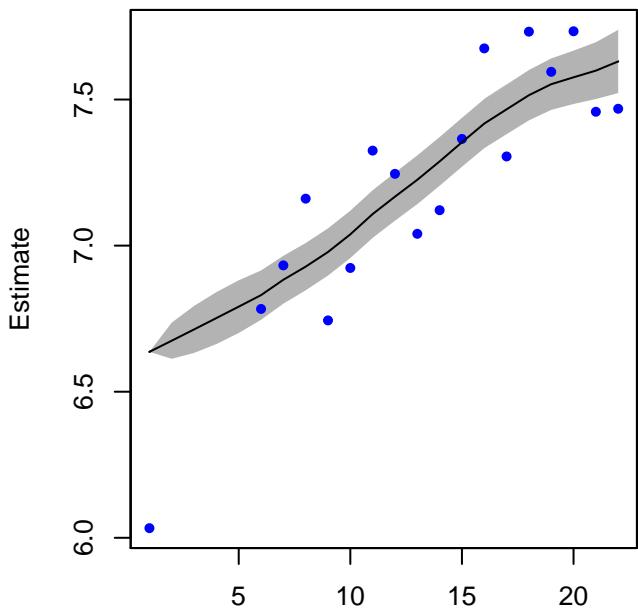
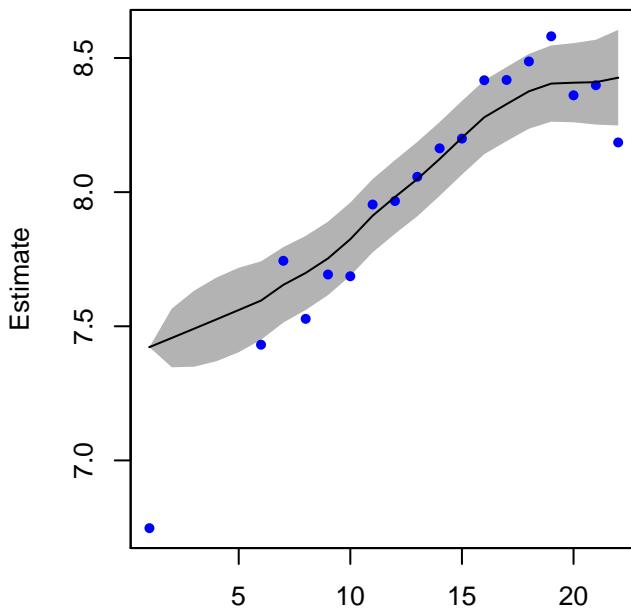
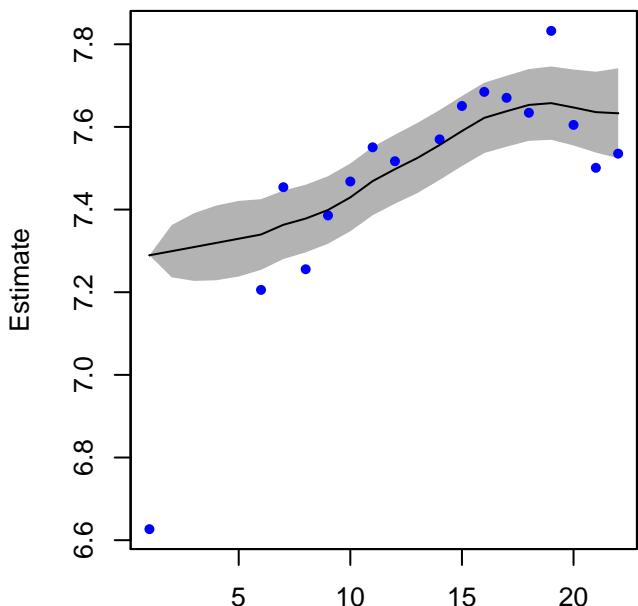


Expected value of Y conditioned on data

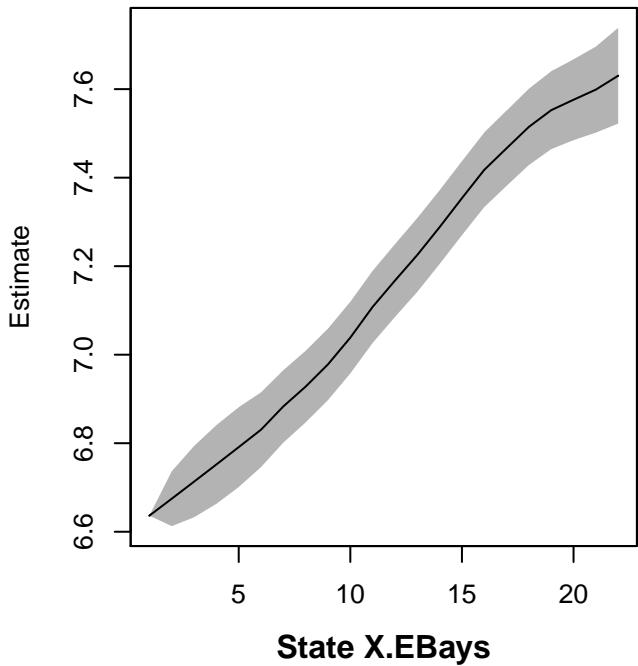


Model innovations residuals ACF

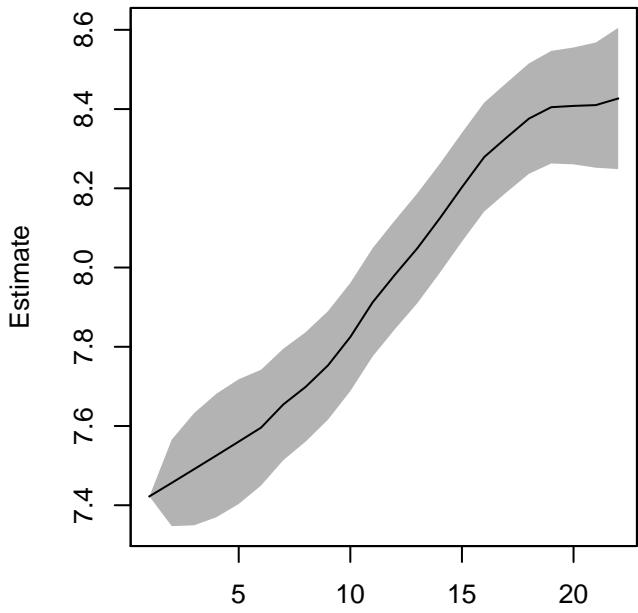


SJF + CI**SJI + CI****EBays + CI**

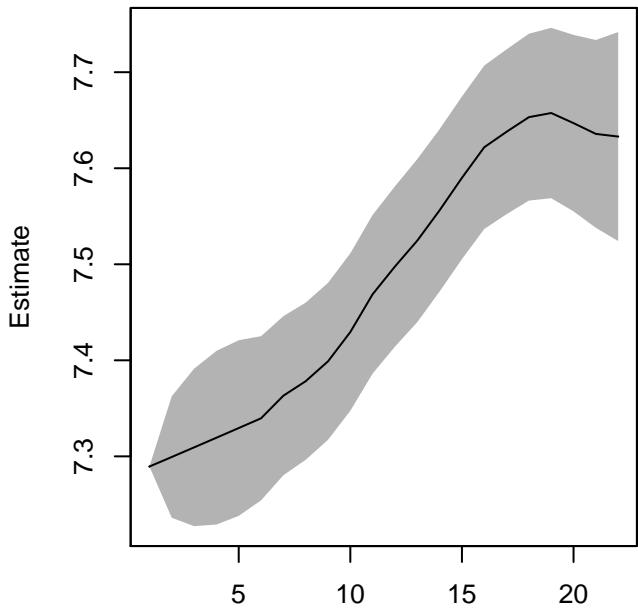
State X.SJF



State X.SJI

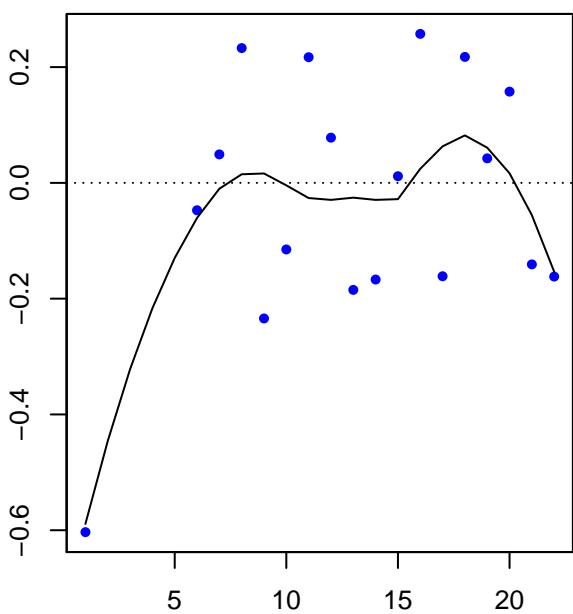


State X.EBays

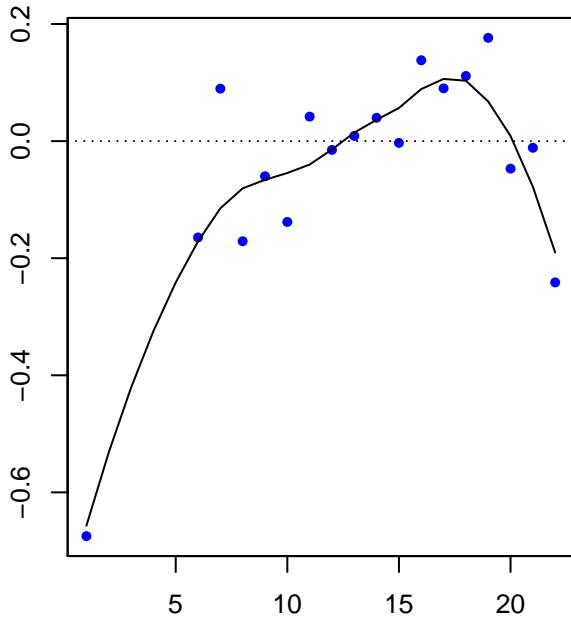


Observation residuals, $y - E[y]$

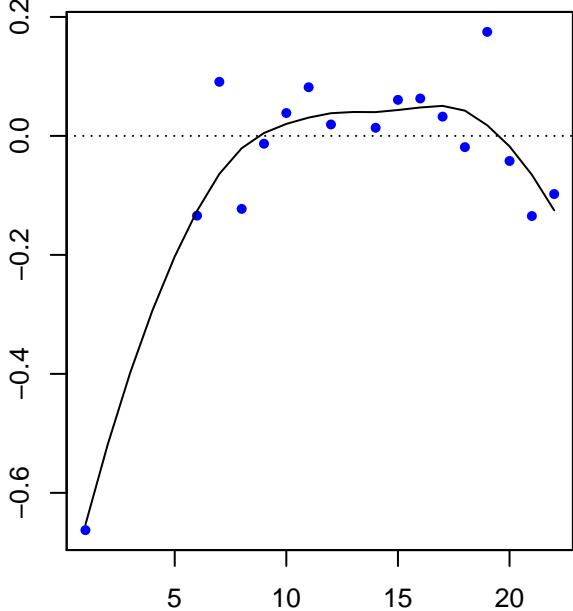
SJF



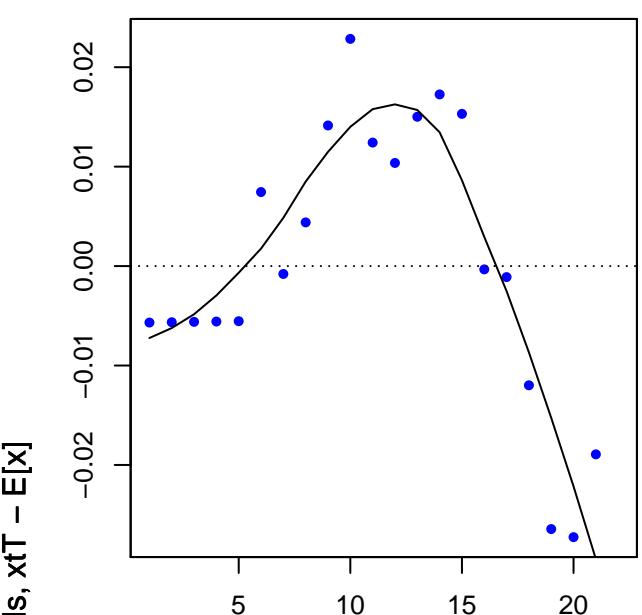
SJI



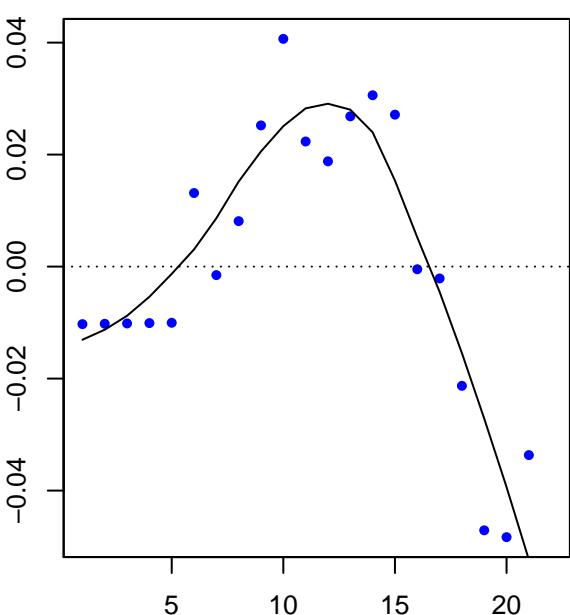
EBays



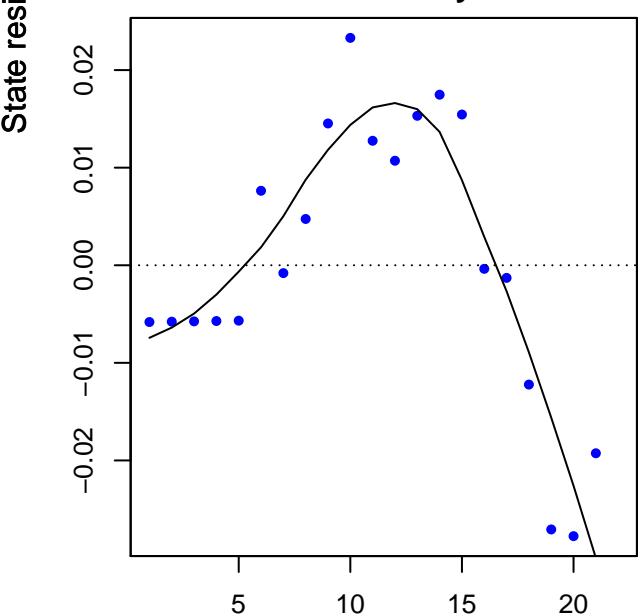
State X.SJF

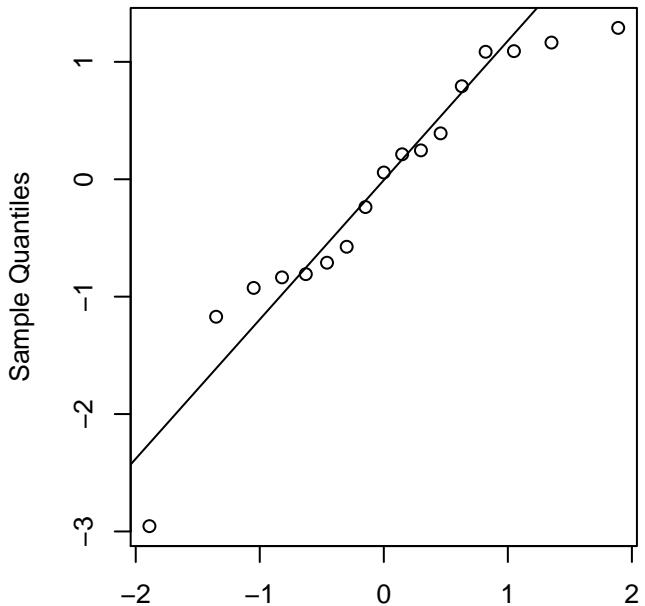
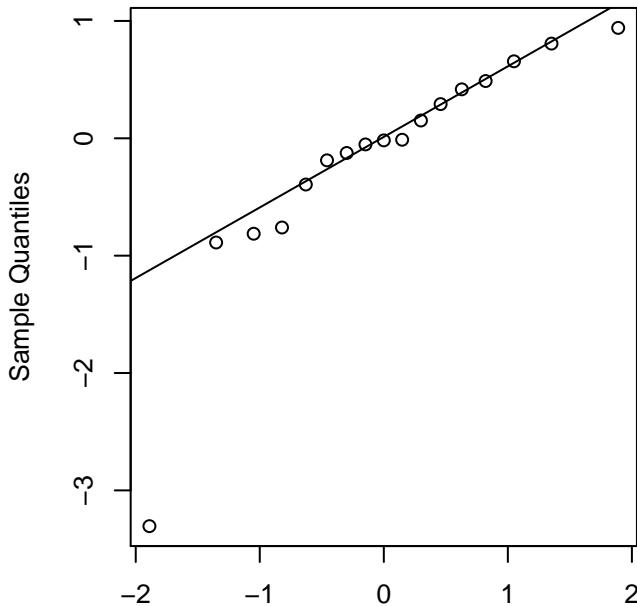
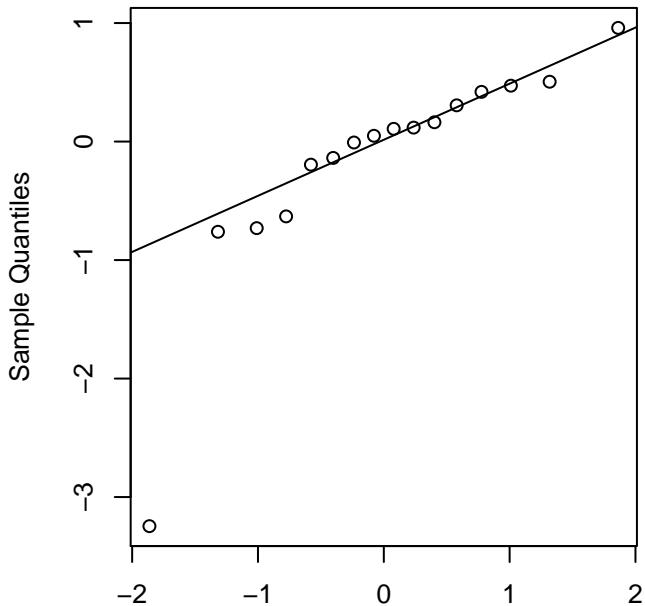


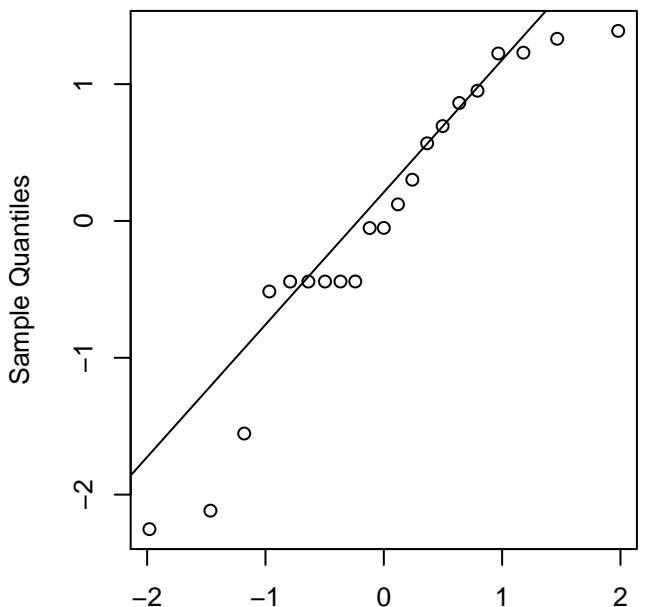
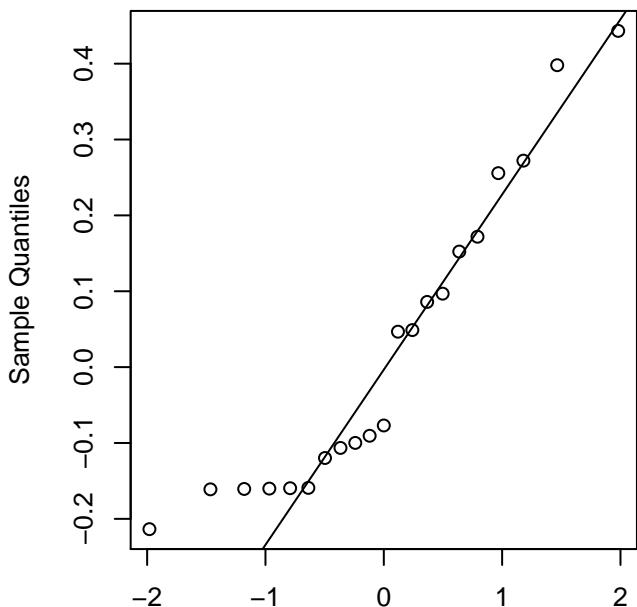
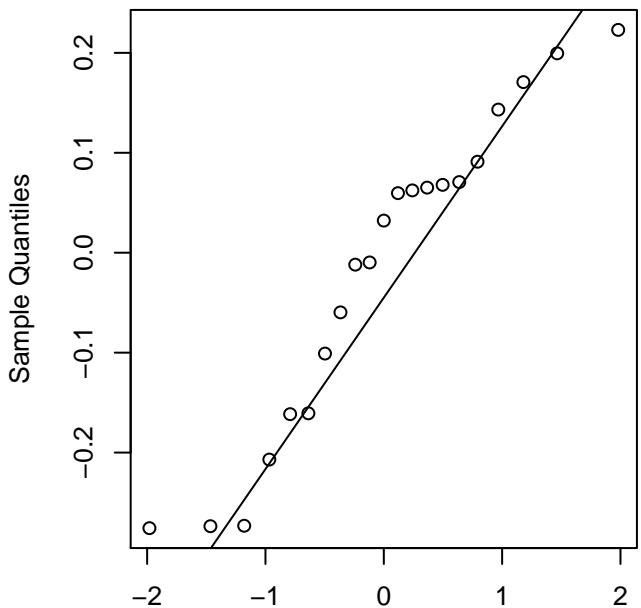
State X.SJI

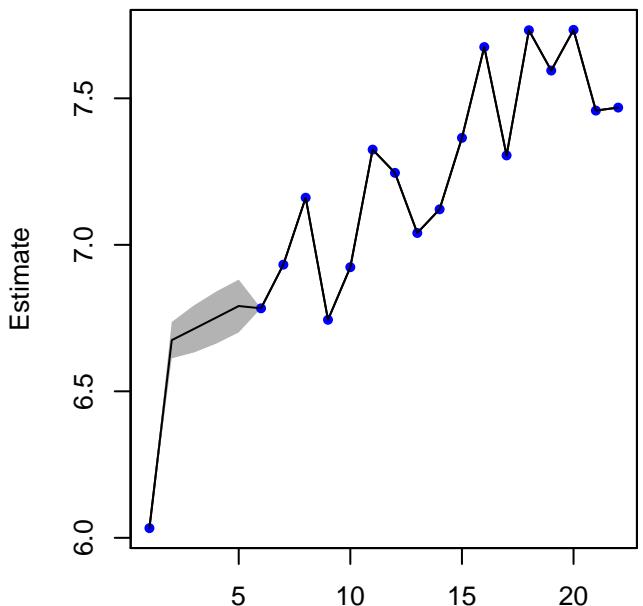
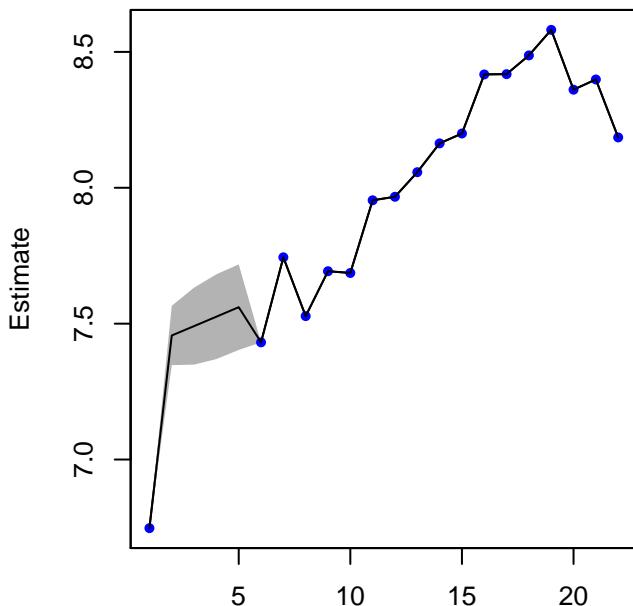
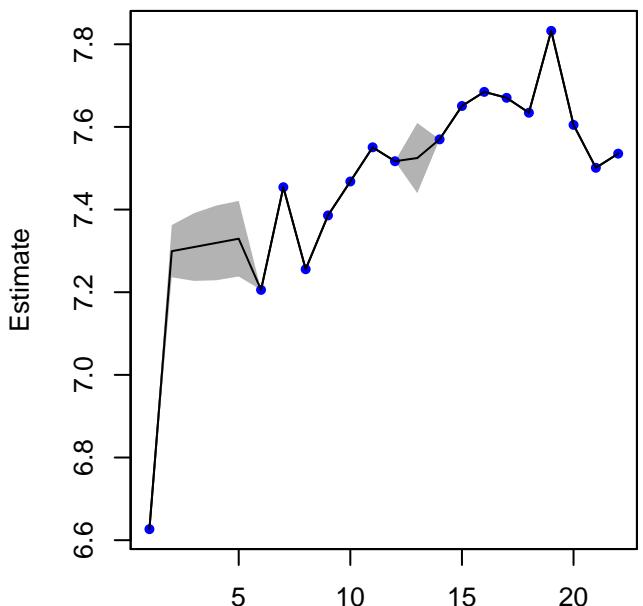


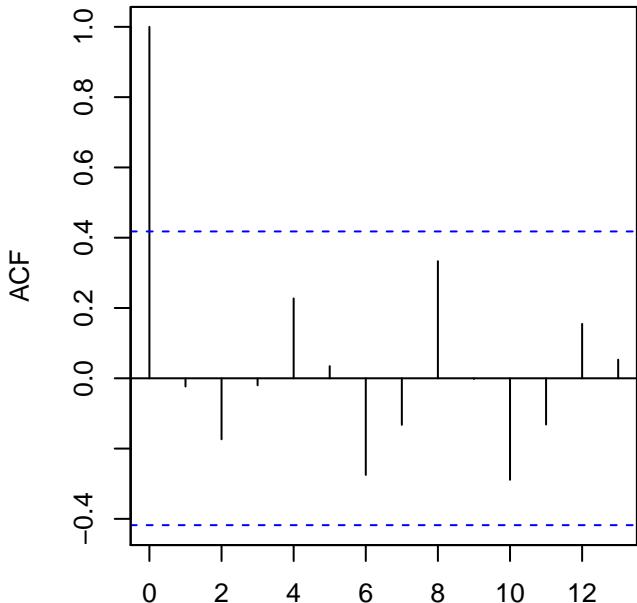
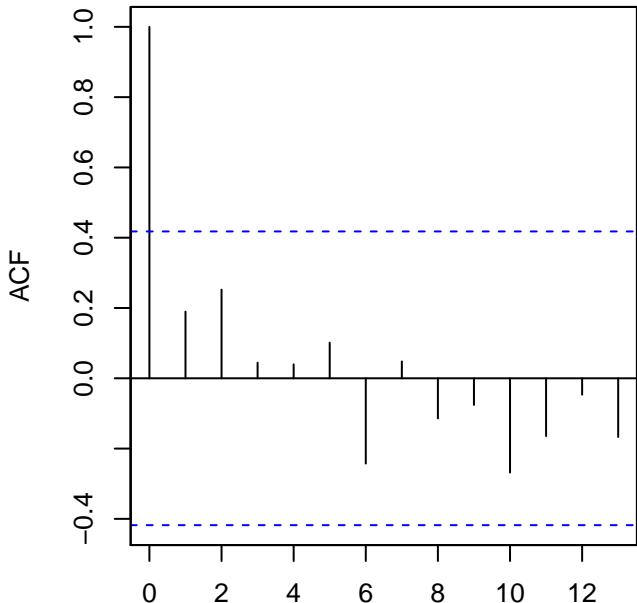
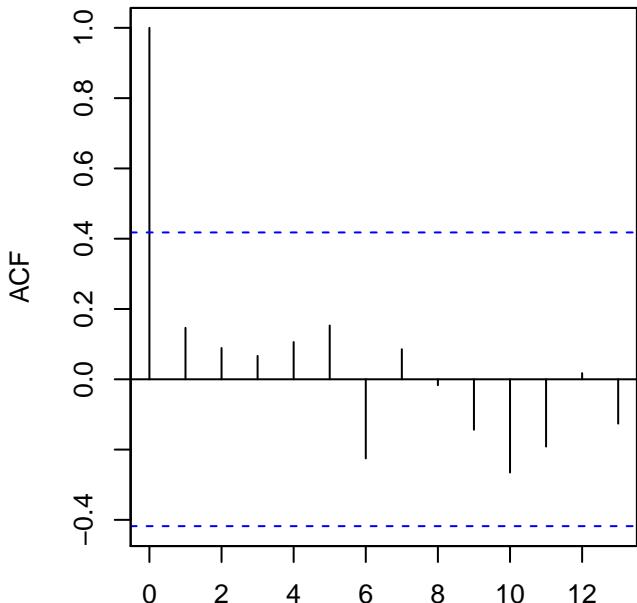
State X.EBays



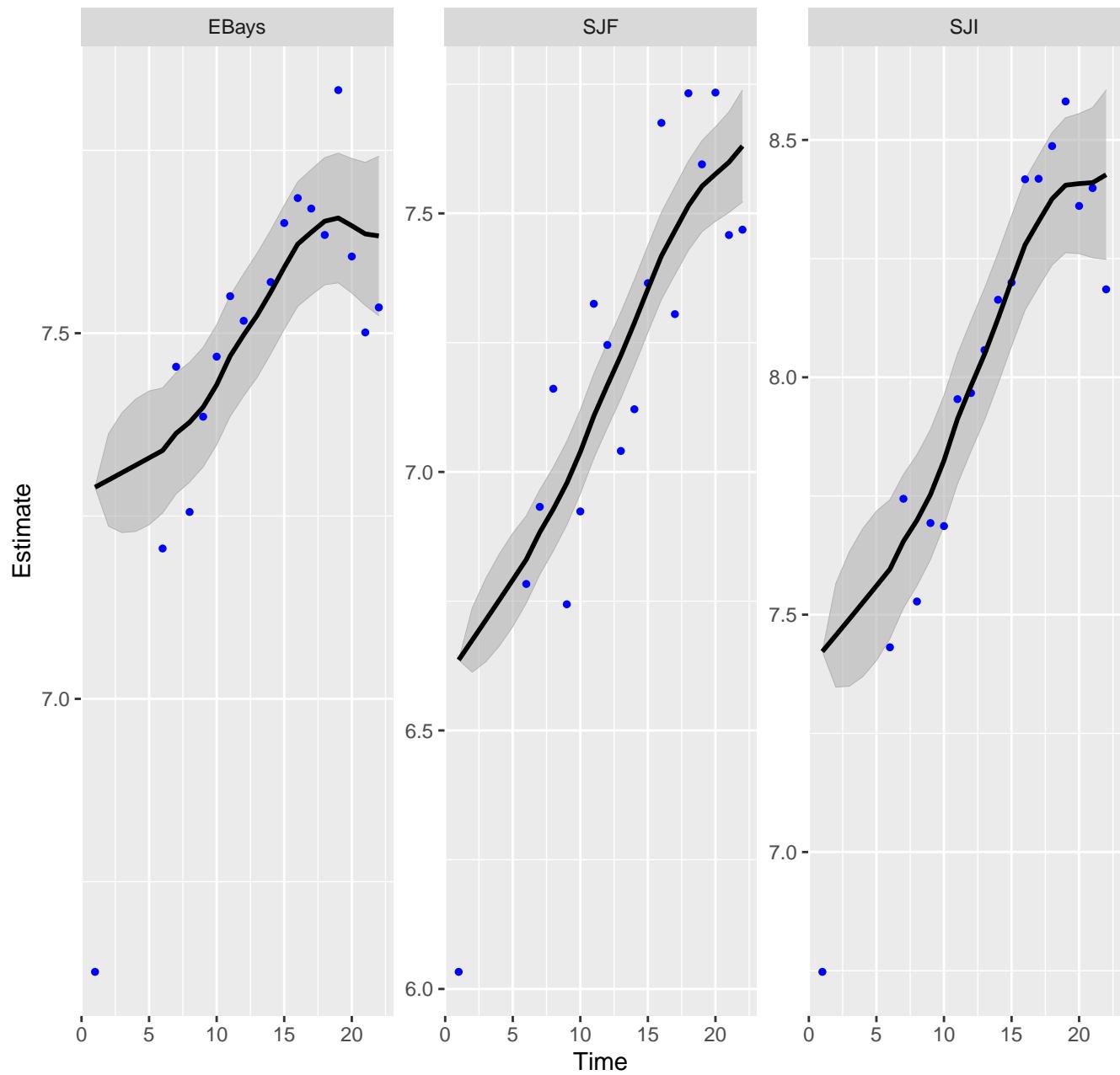
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

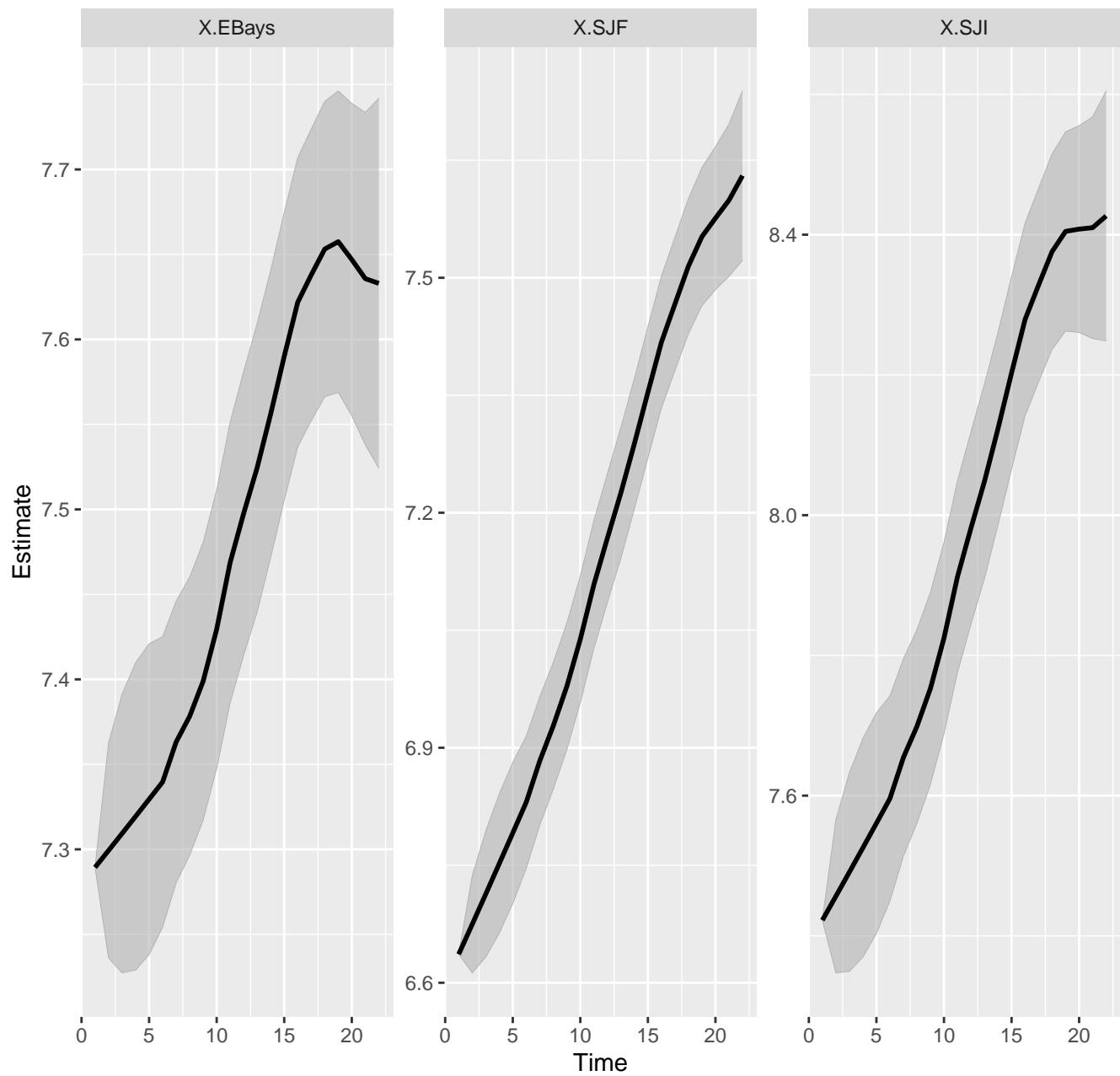
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

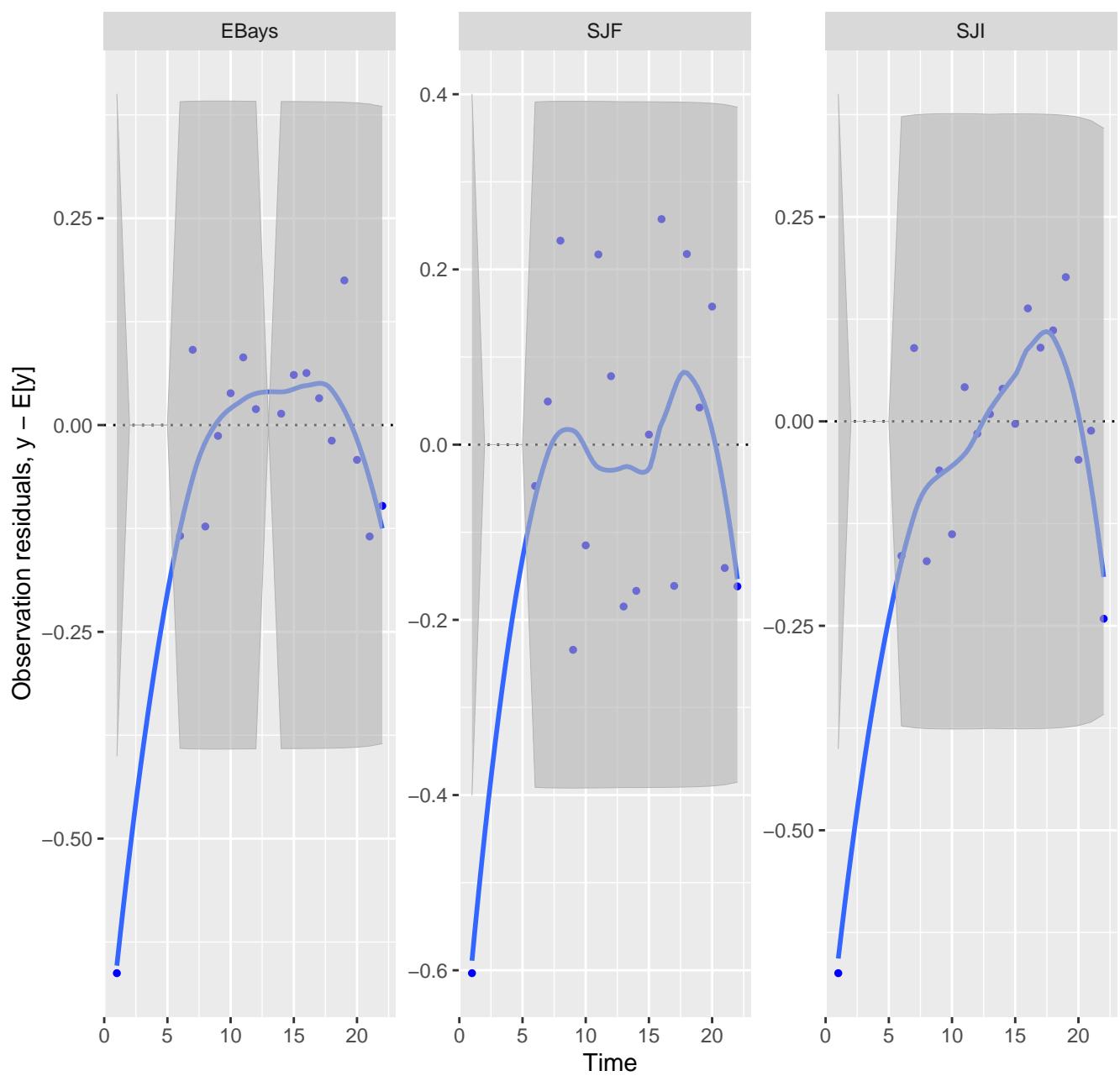
Model fitted Y + CI



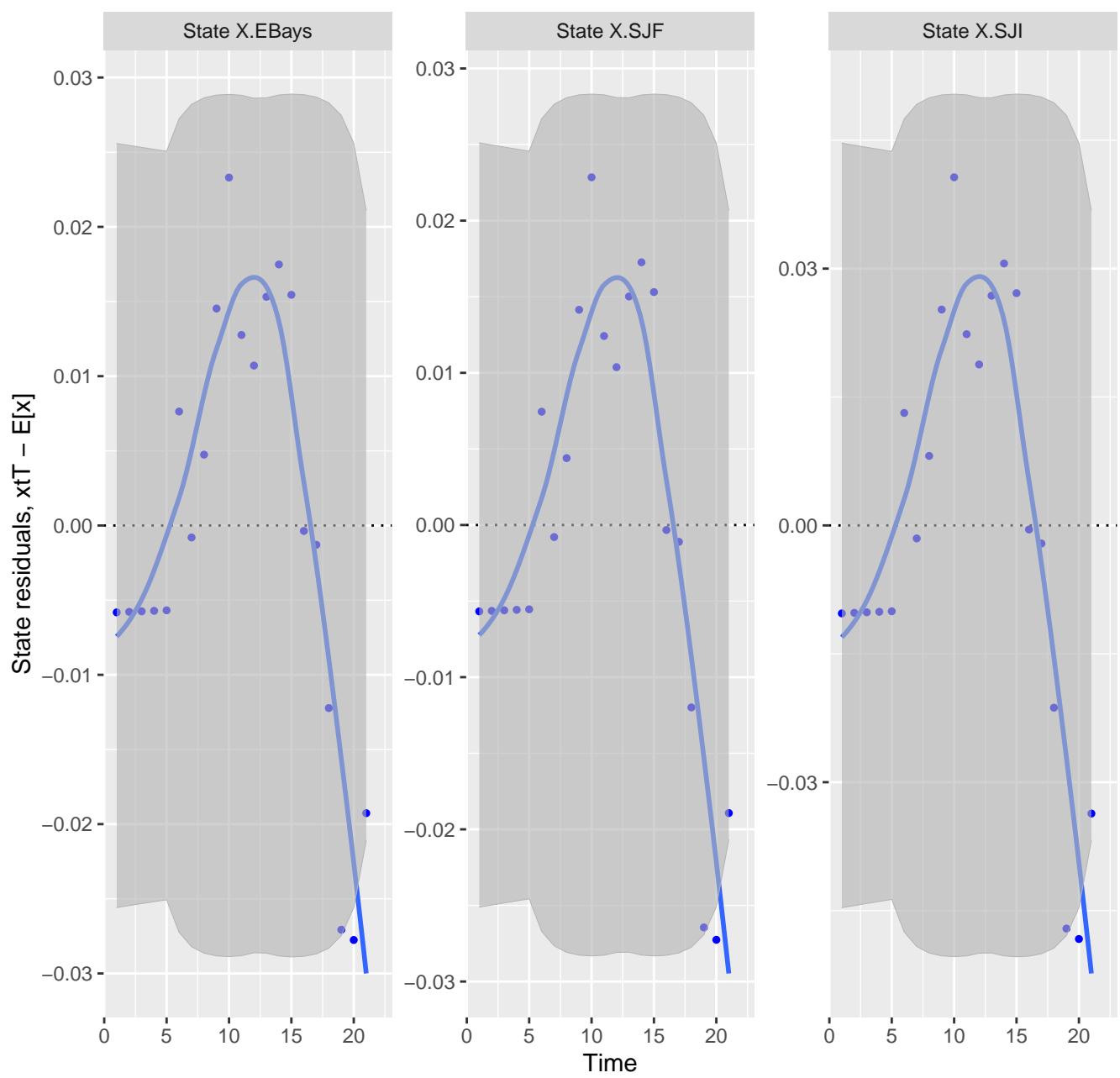
States



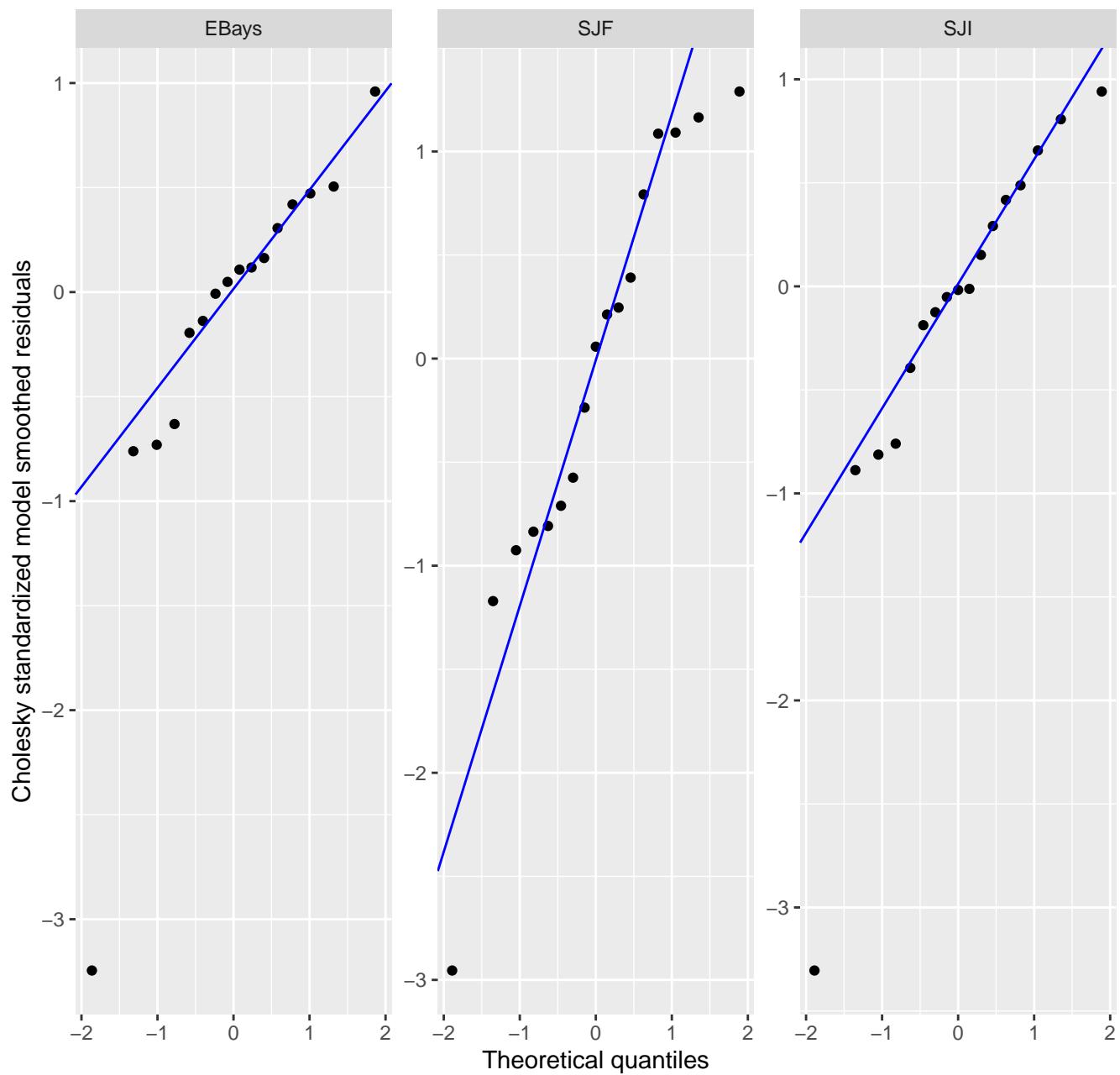
Model residuals



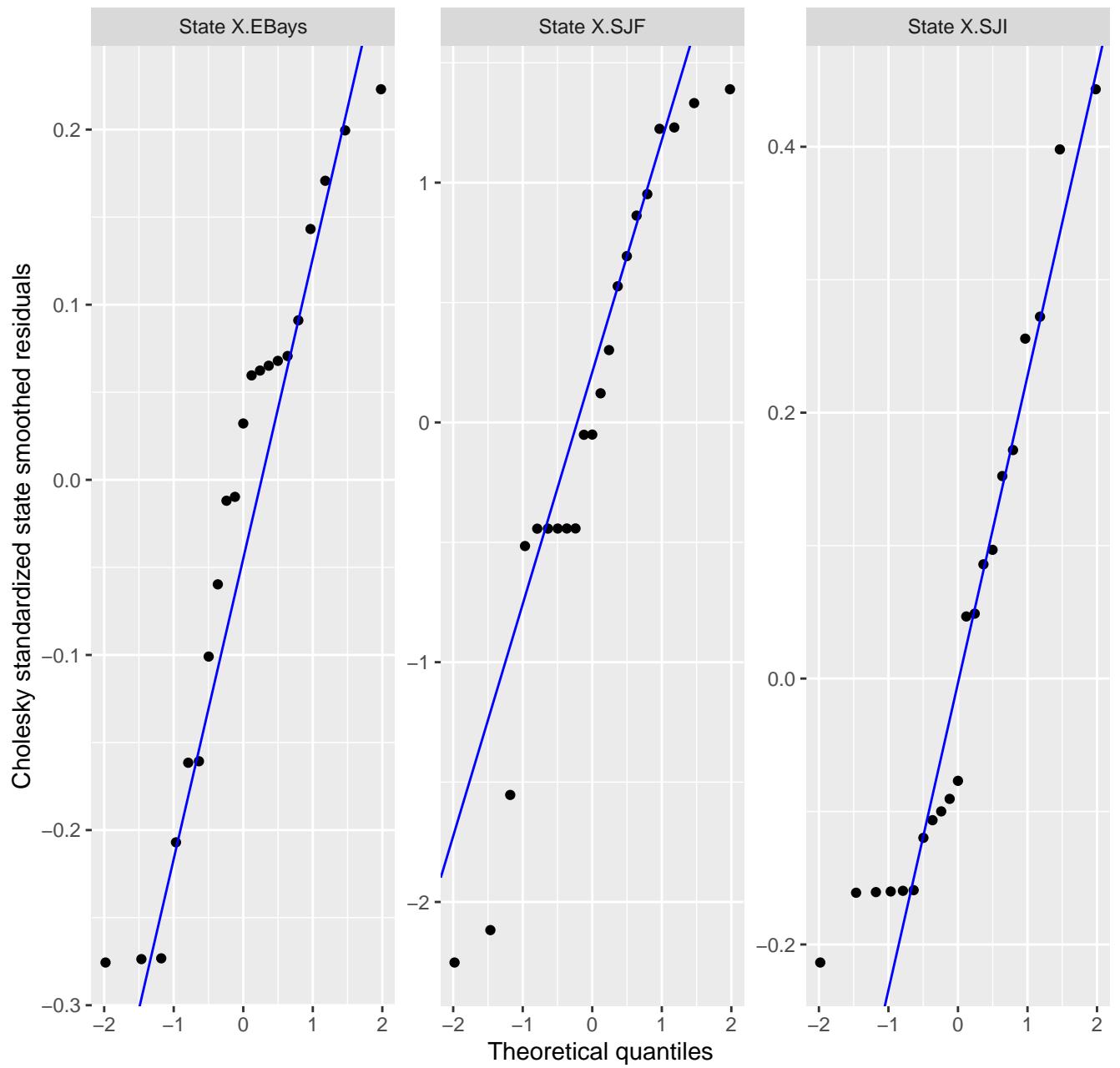
State residuals



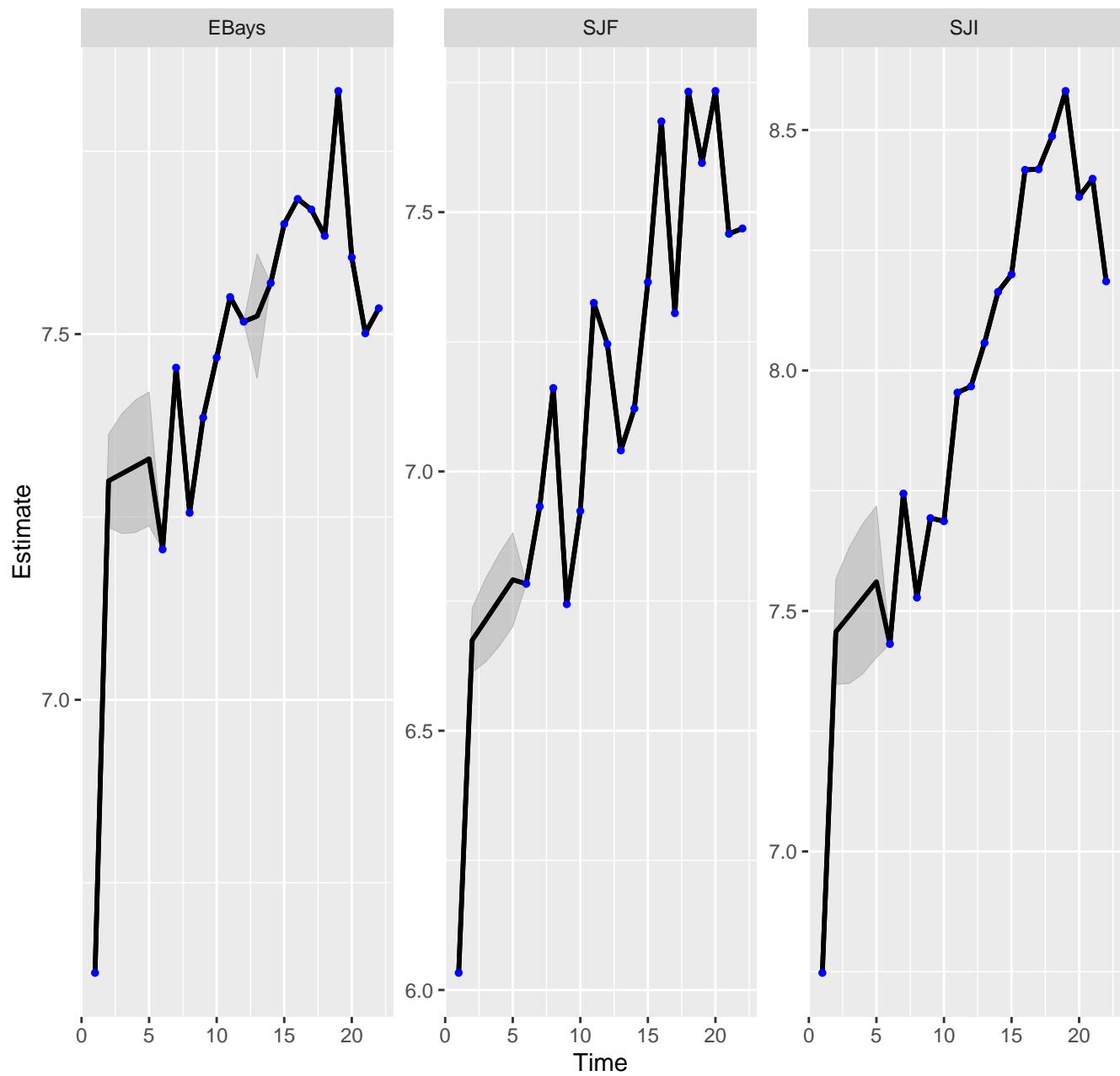
Model residuals normality test



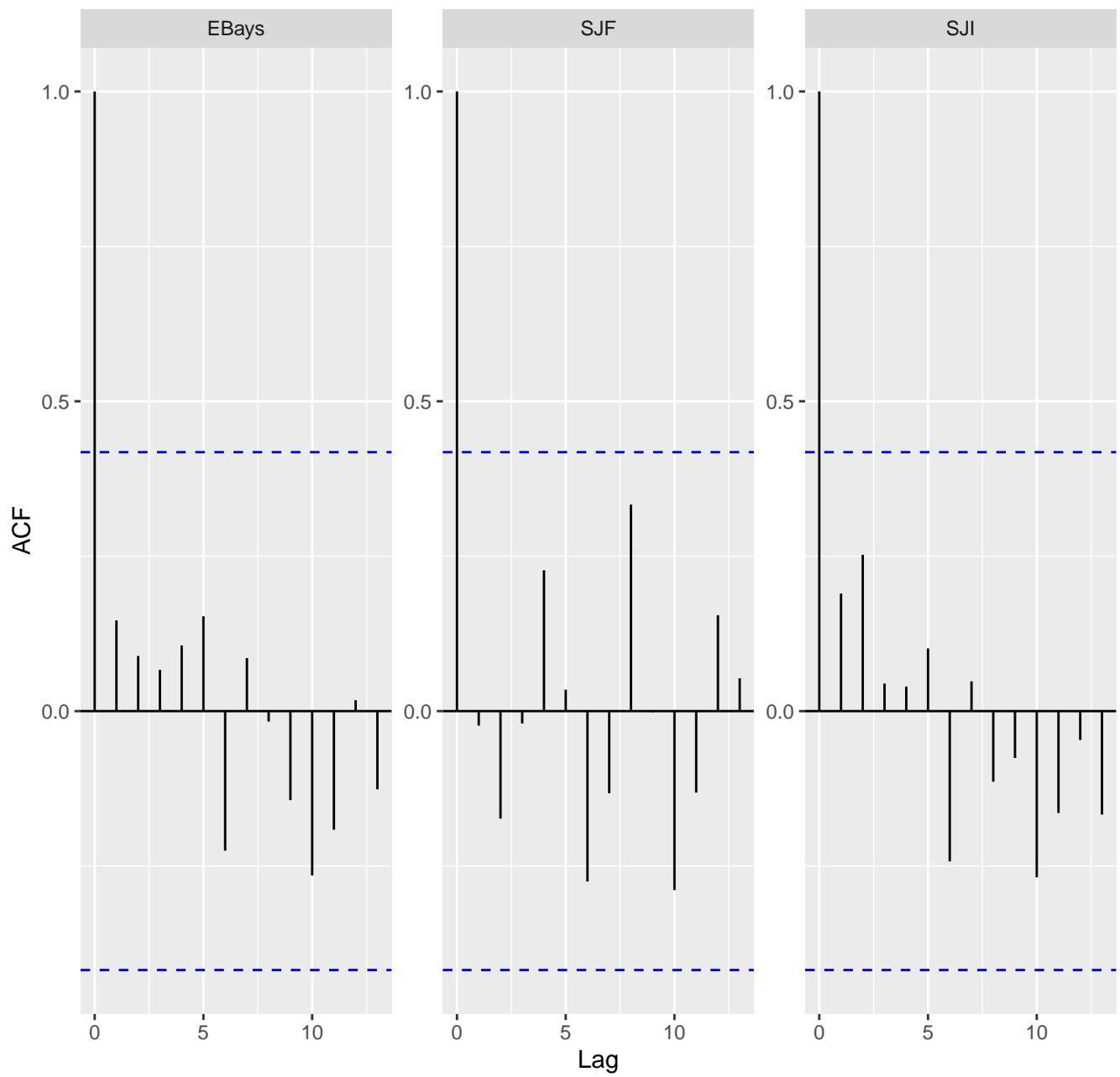
State residuals normality test

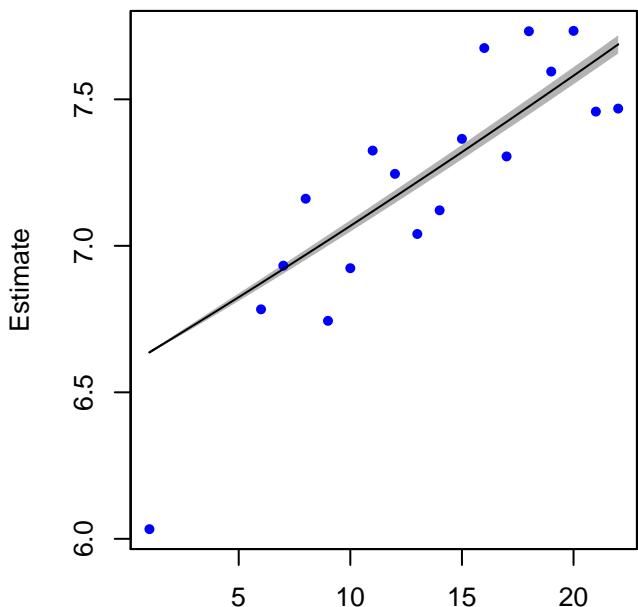
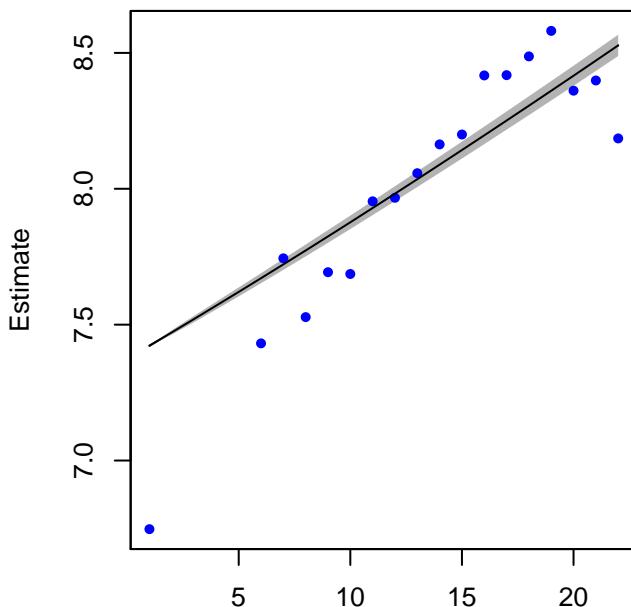
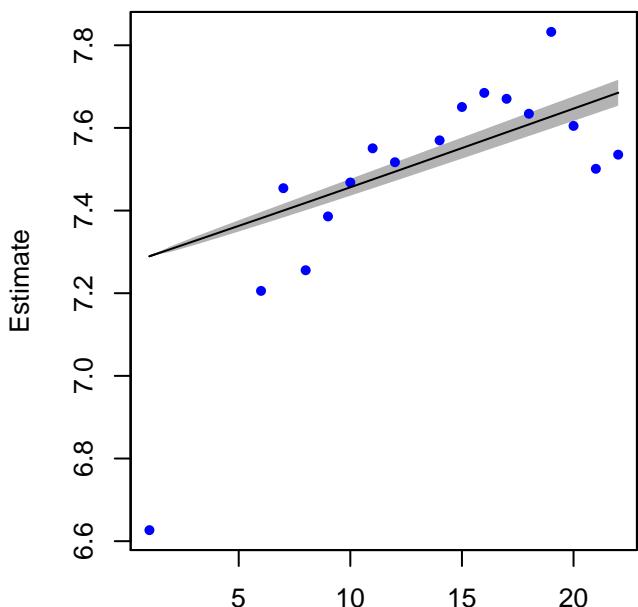


Expected value of Y conditioned on data

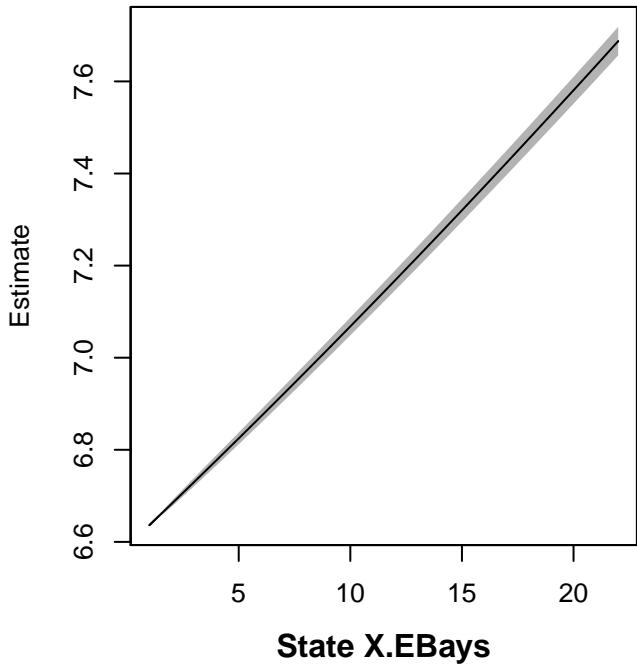


Model innovations residuals ACF

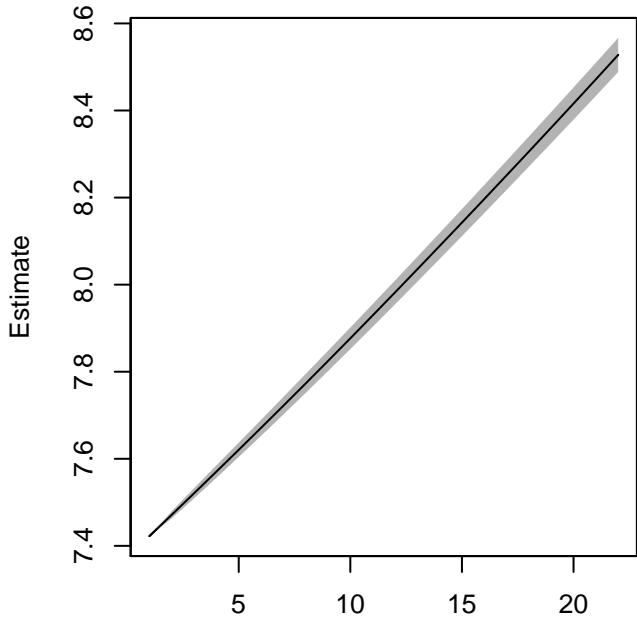


SJF + CI**SJI + CI****EBays + CI**

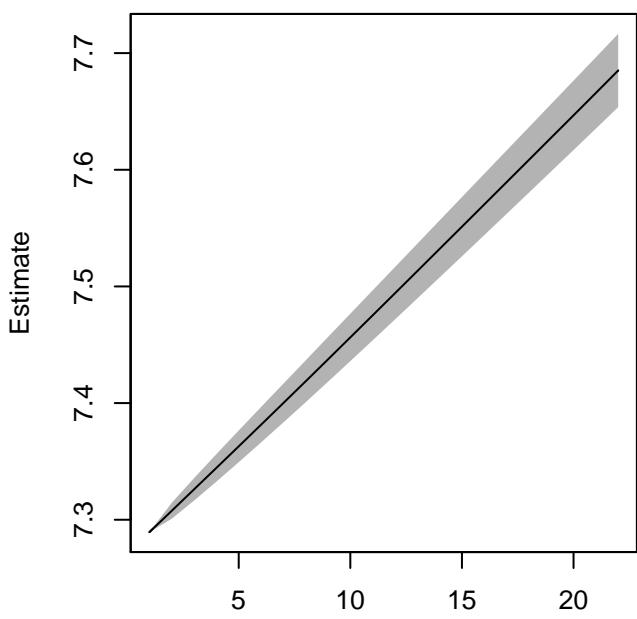
State X.SJF

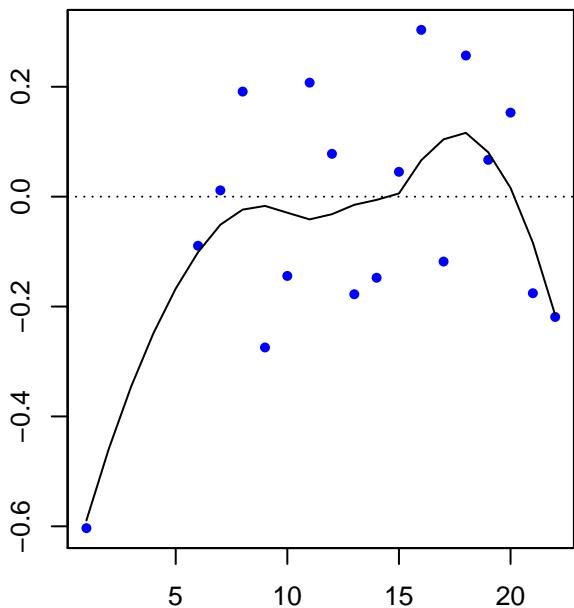
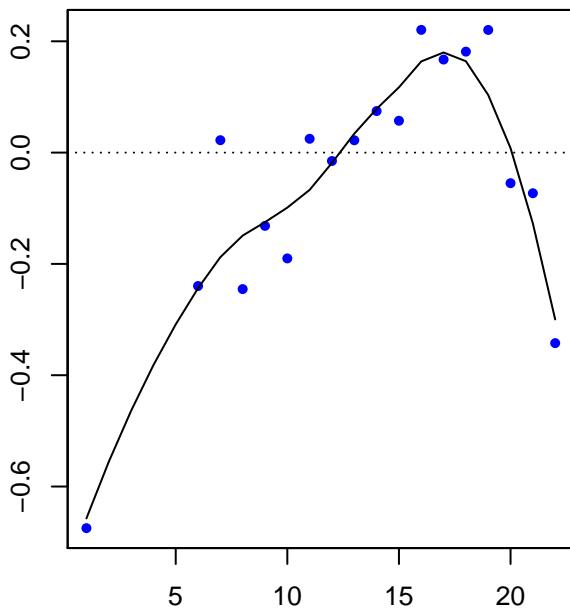
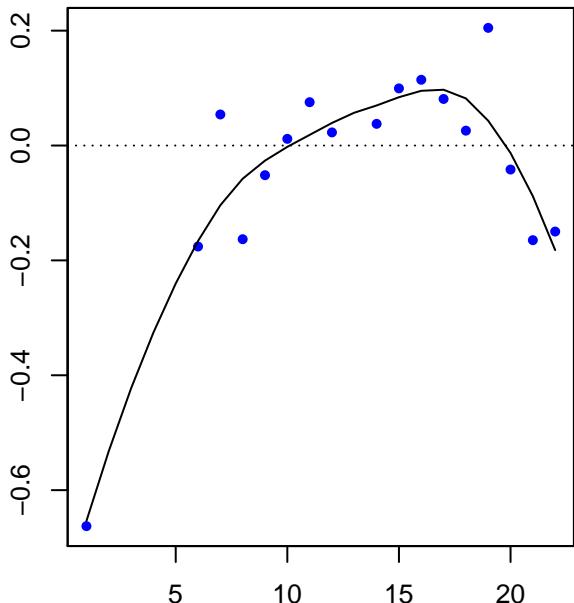


State X.SJI

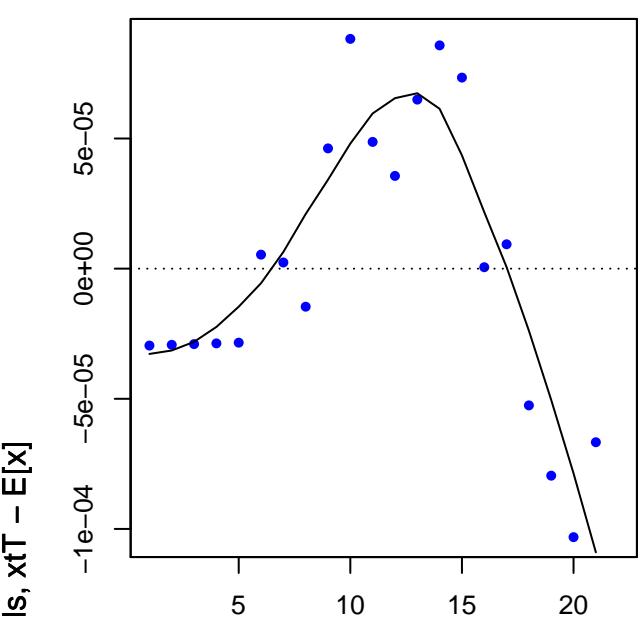


State X.EBays

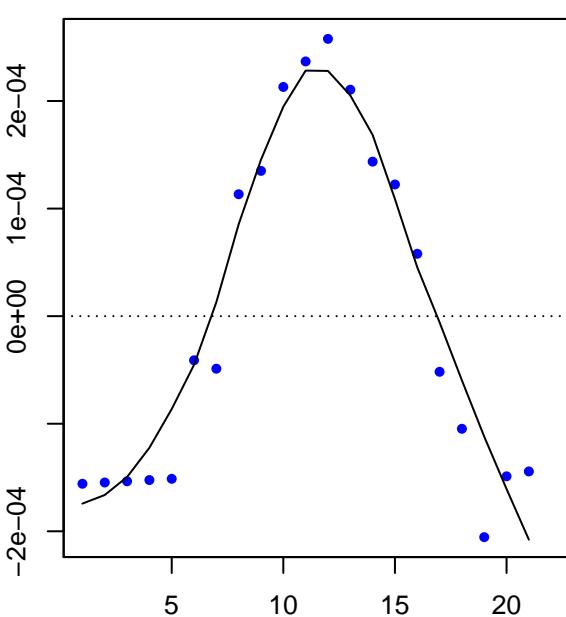


SJFObservation residuals, $y - E[y]$ **SJI****EBays**

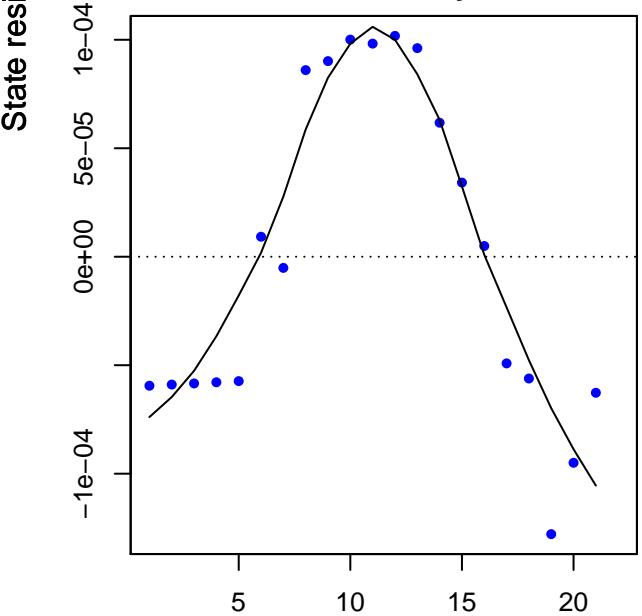
State X.SJF

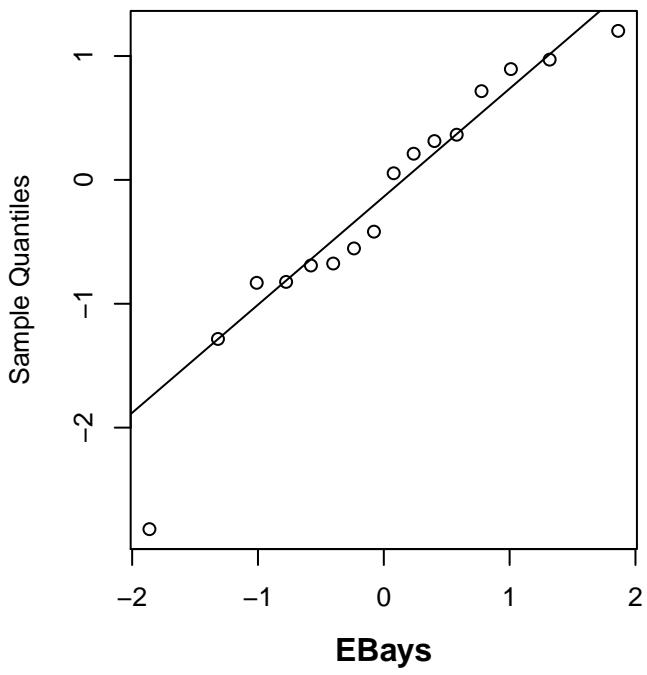
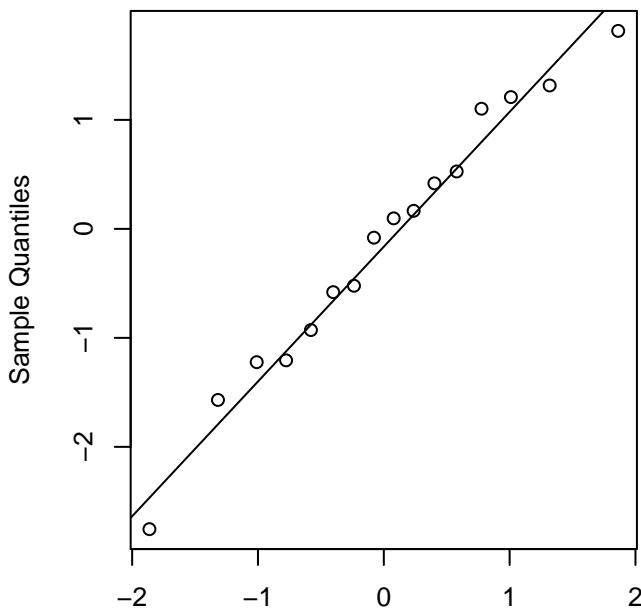
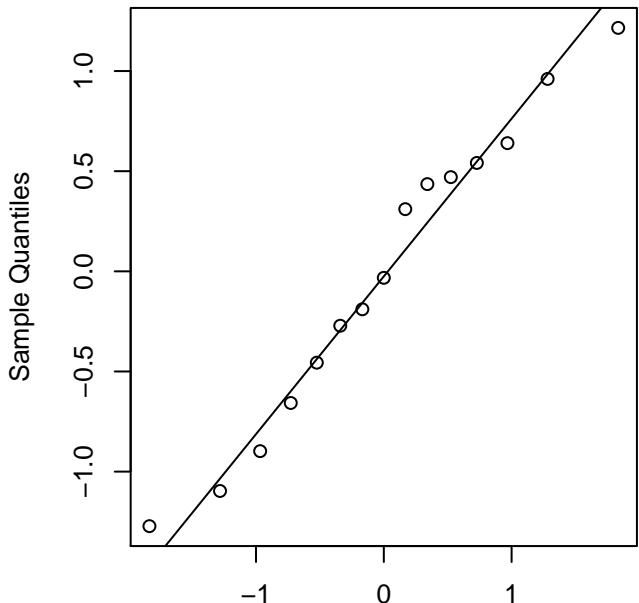


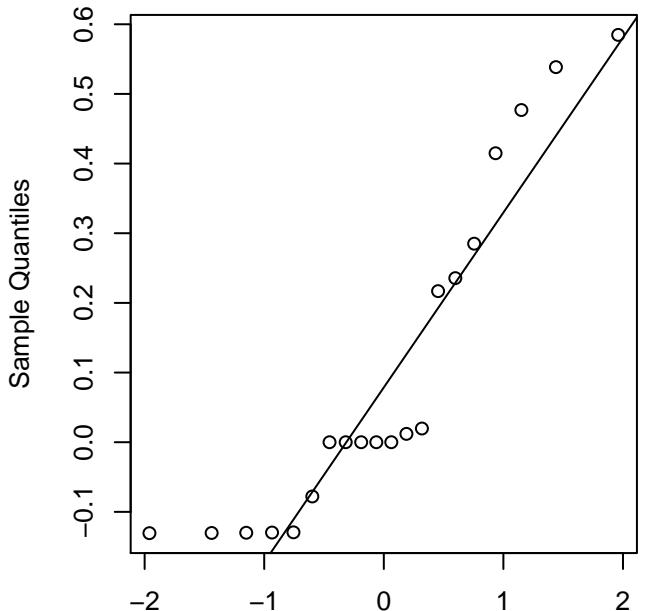
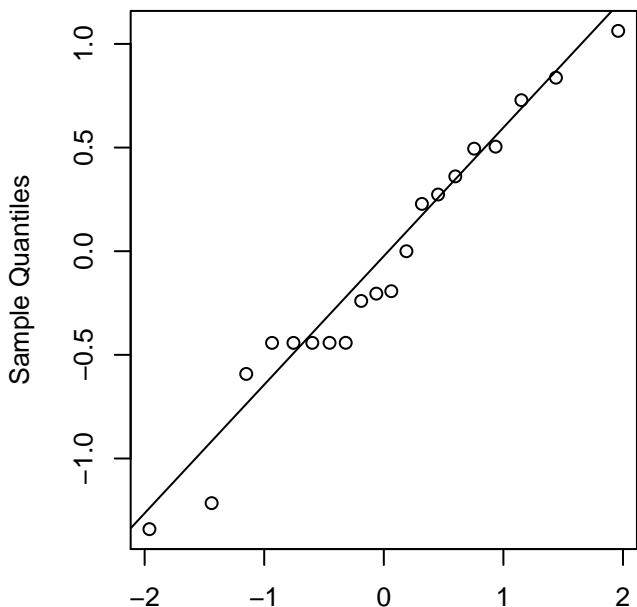
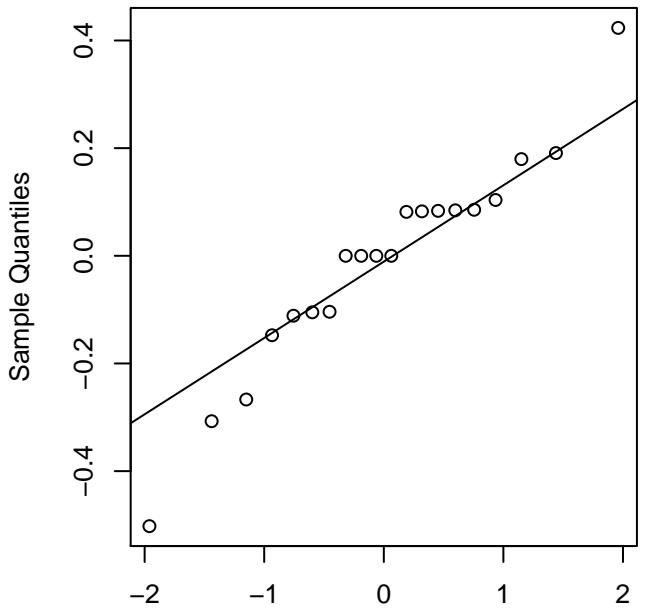
State X.SJI

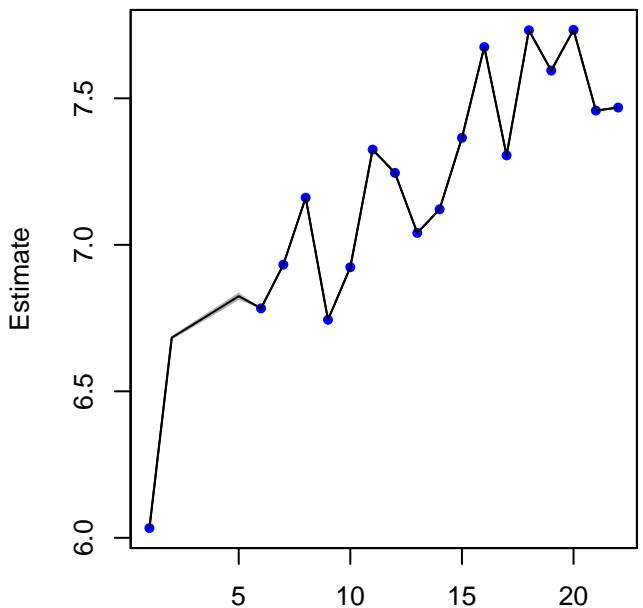
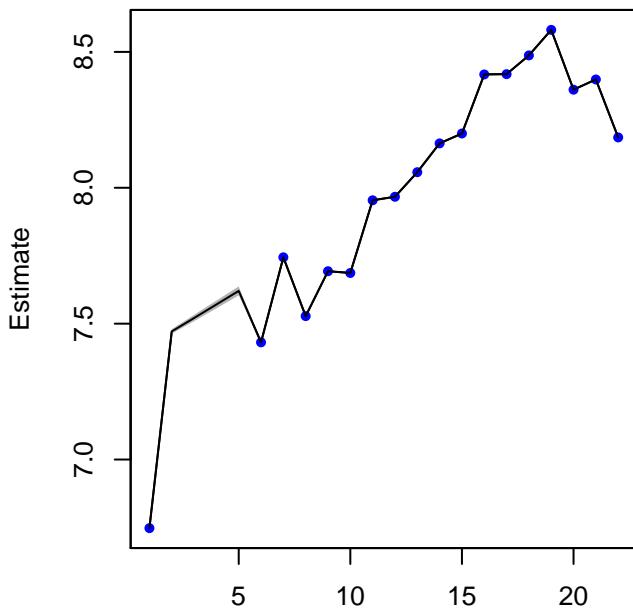
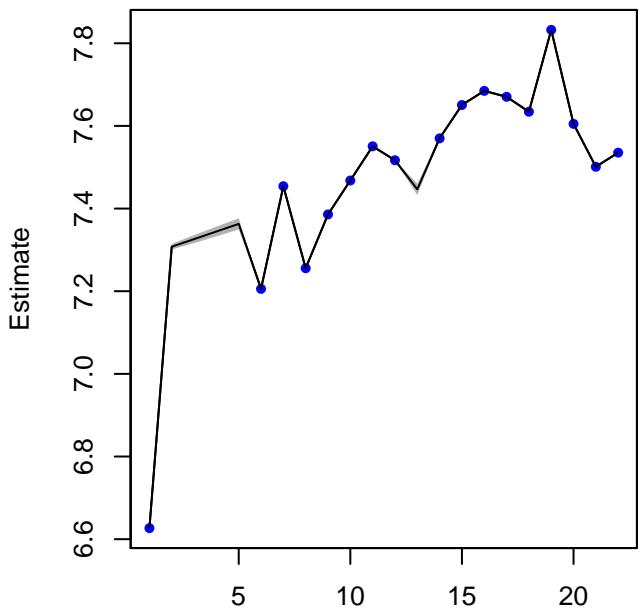


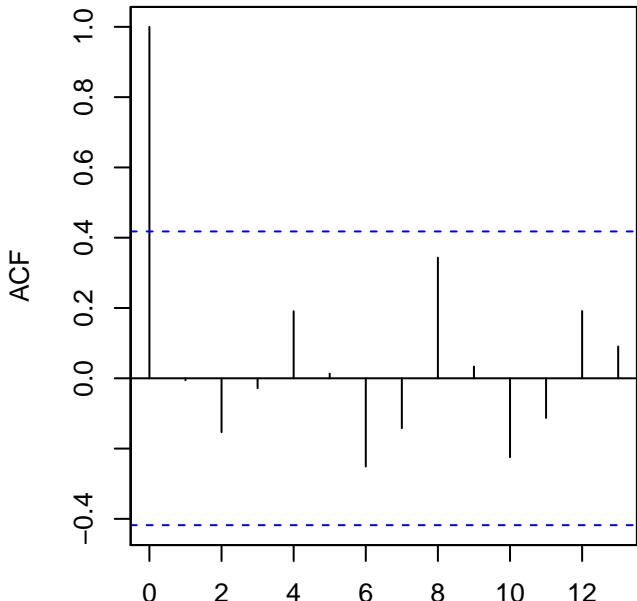
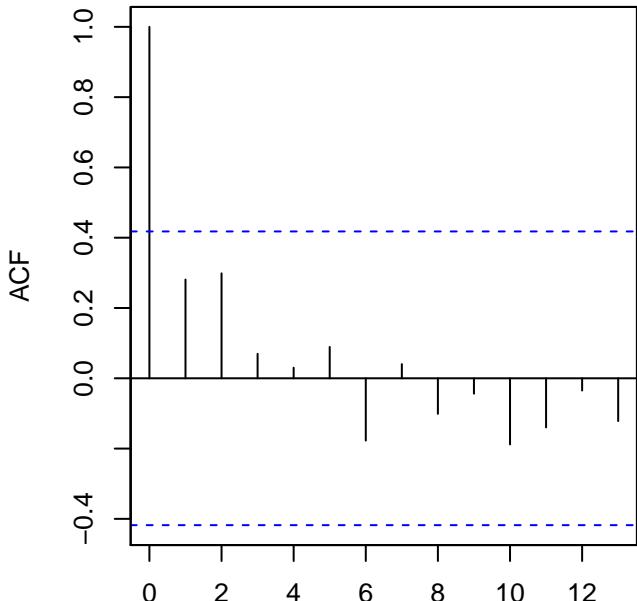
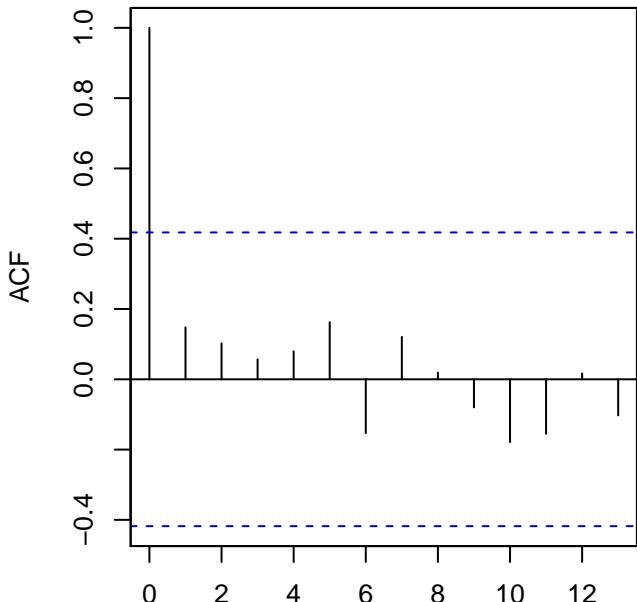
State X.EBays



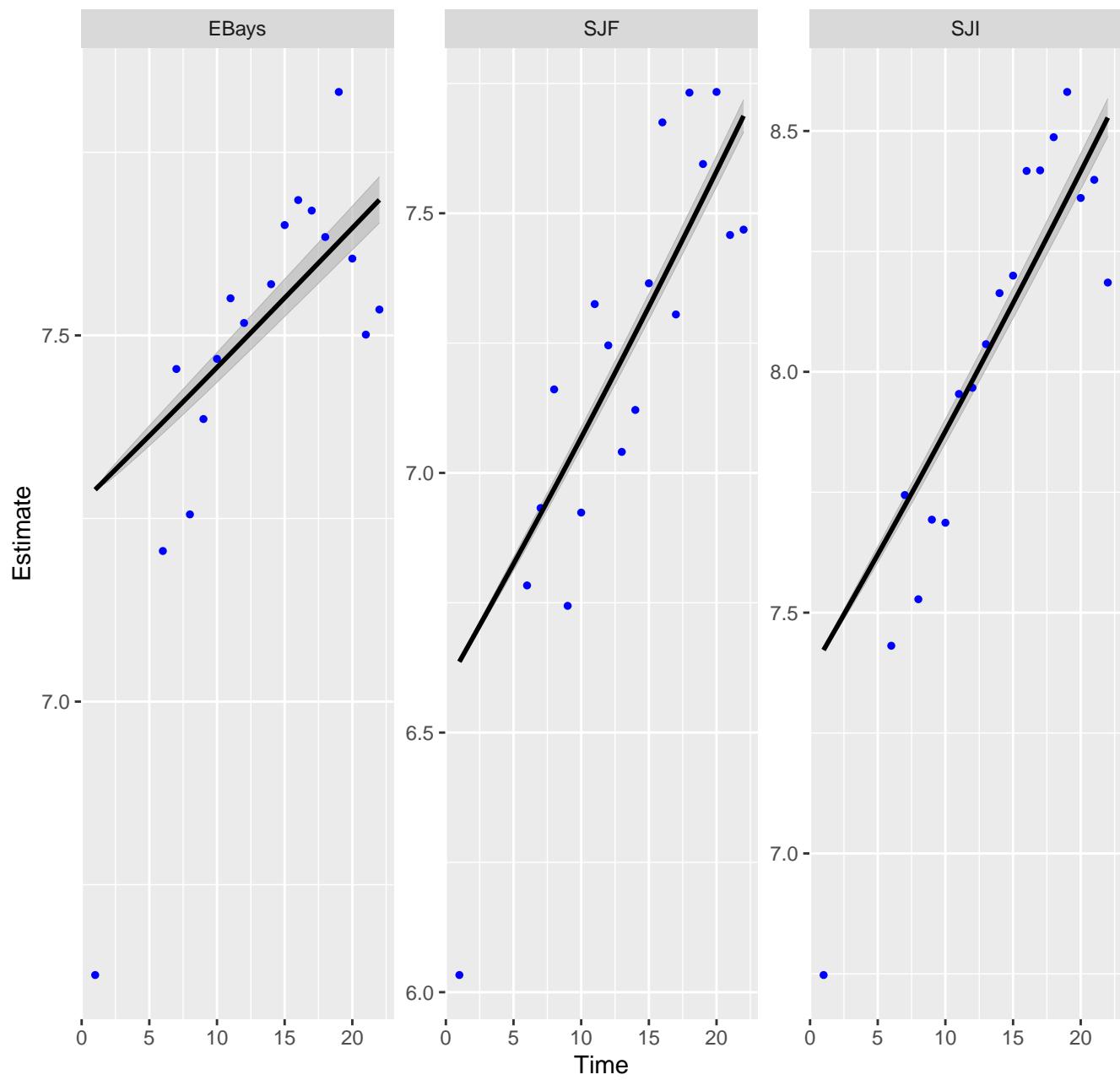
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

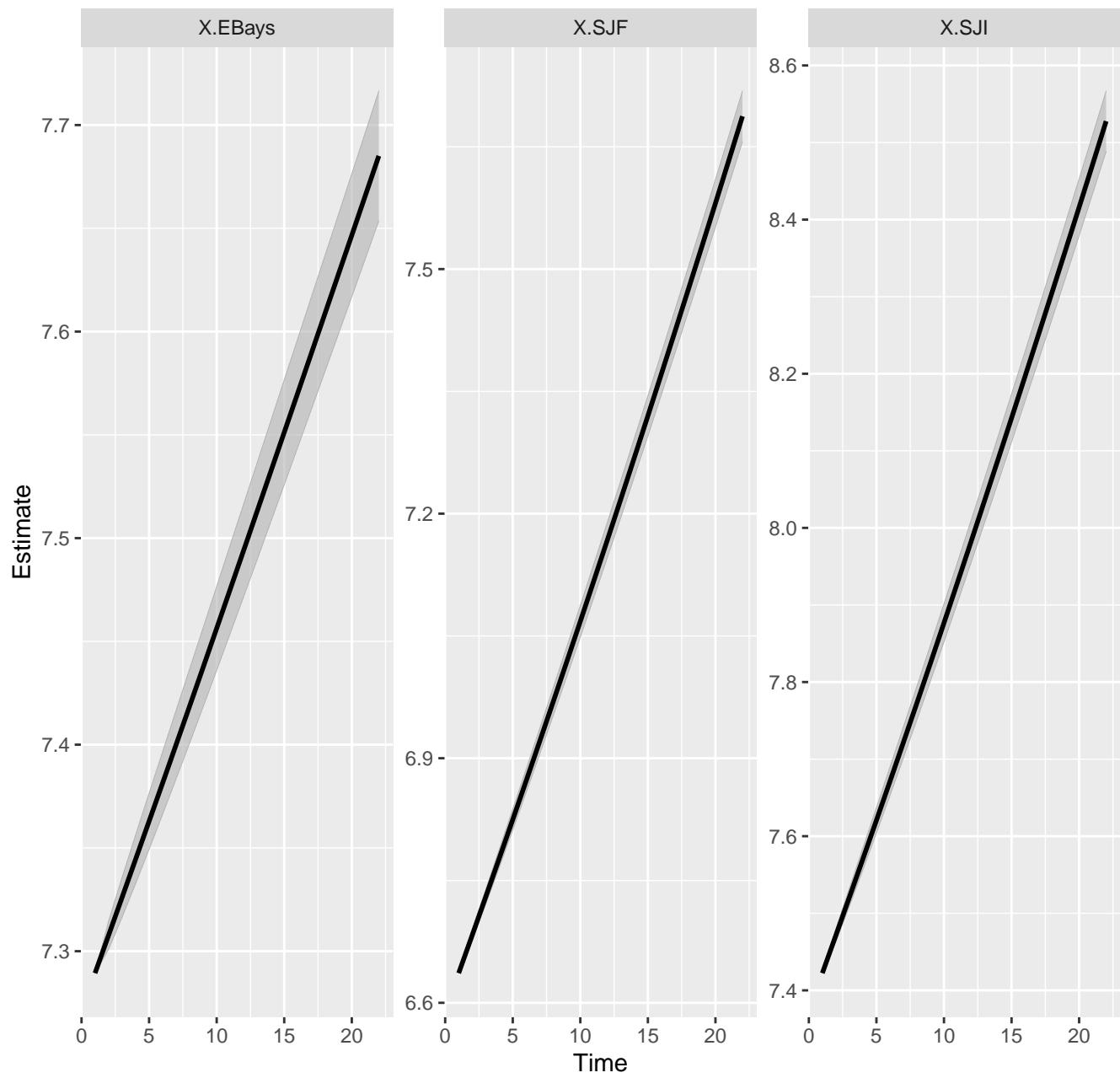
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

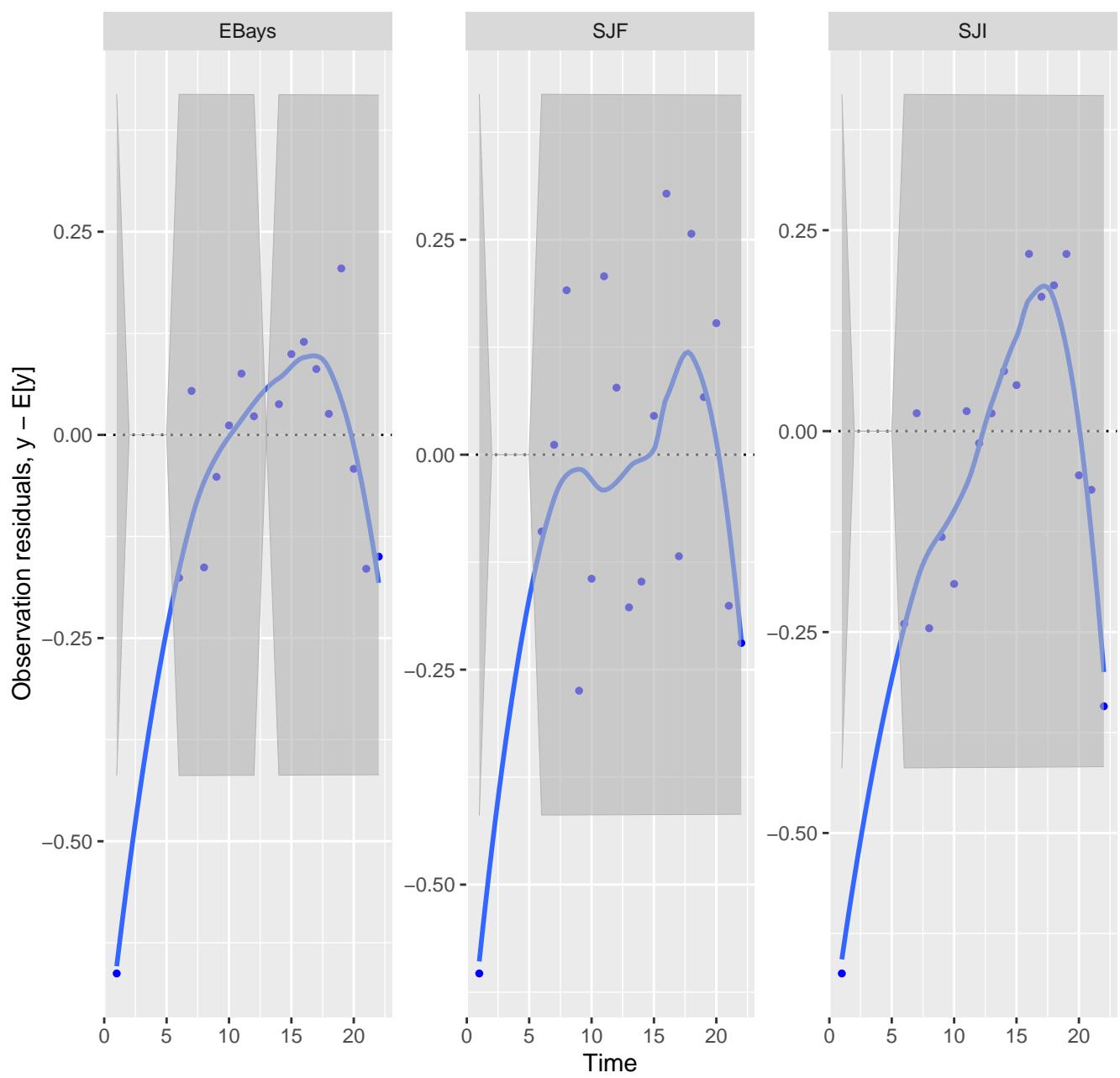
Model fitted Y + CI



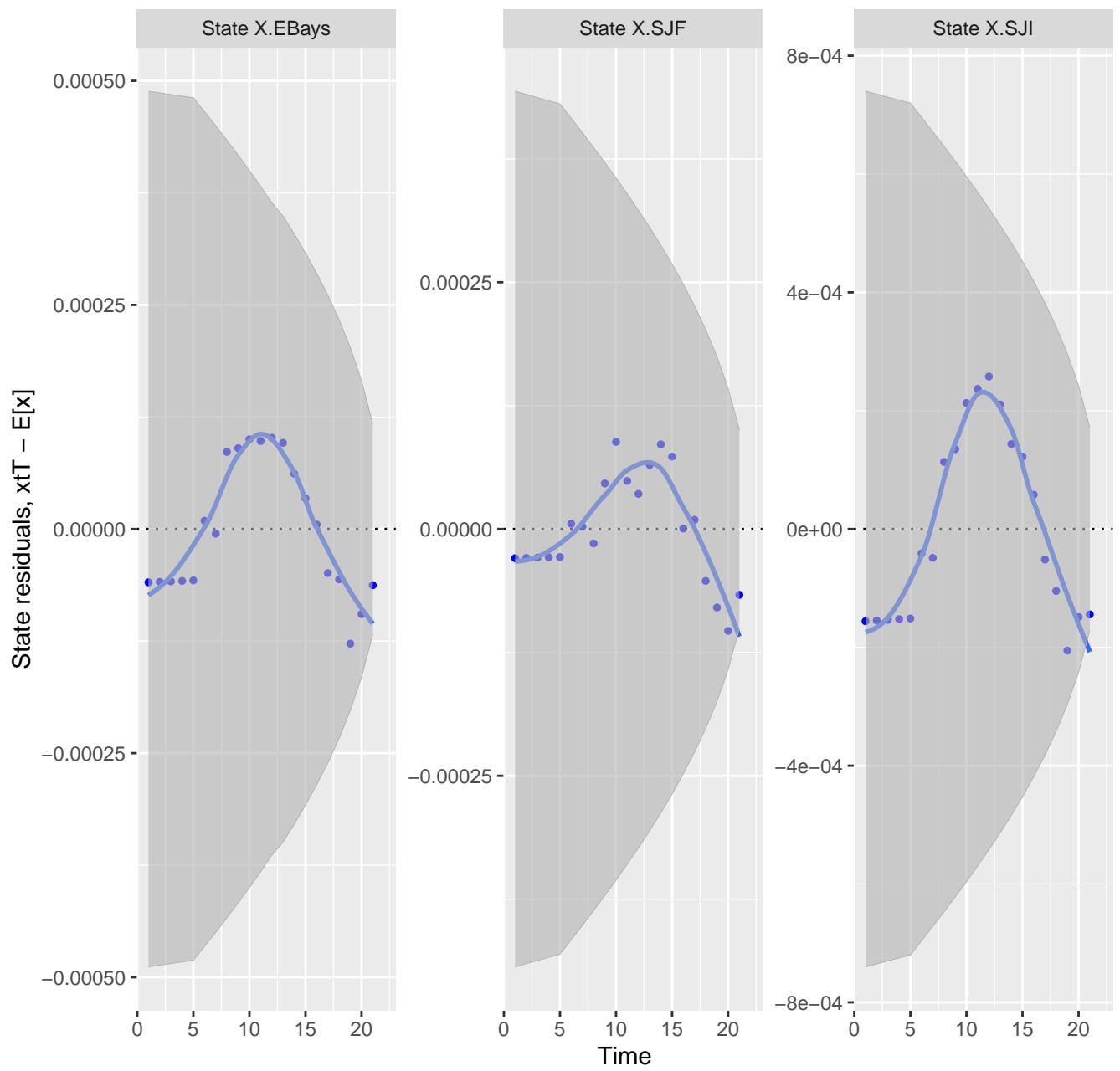
States



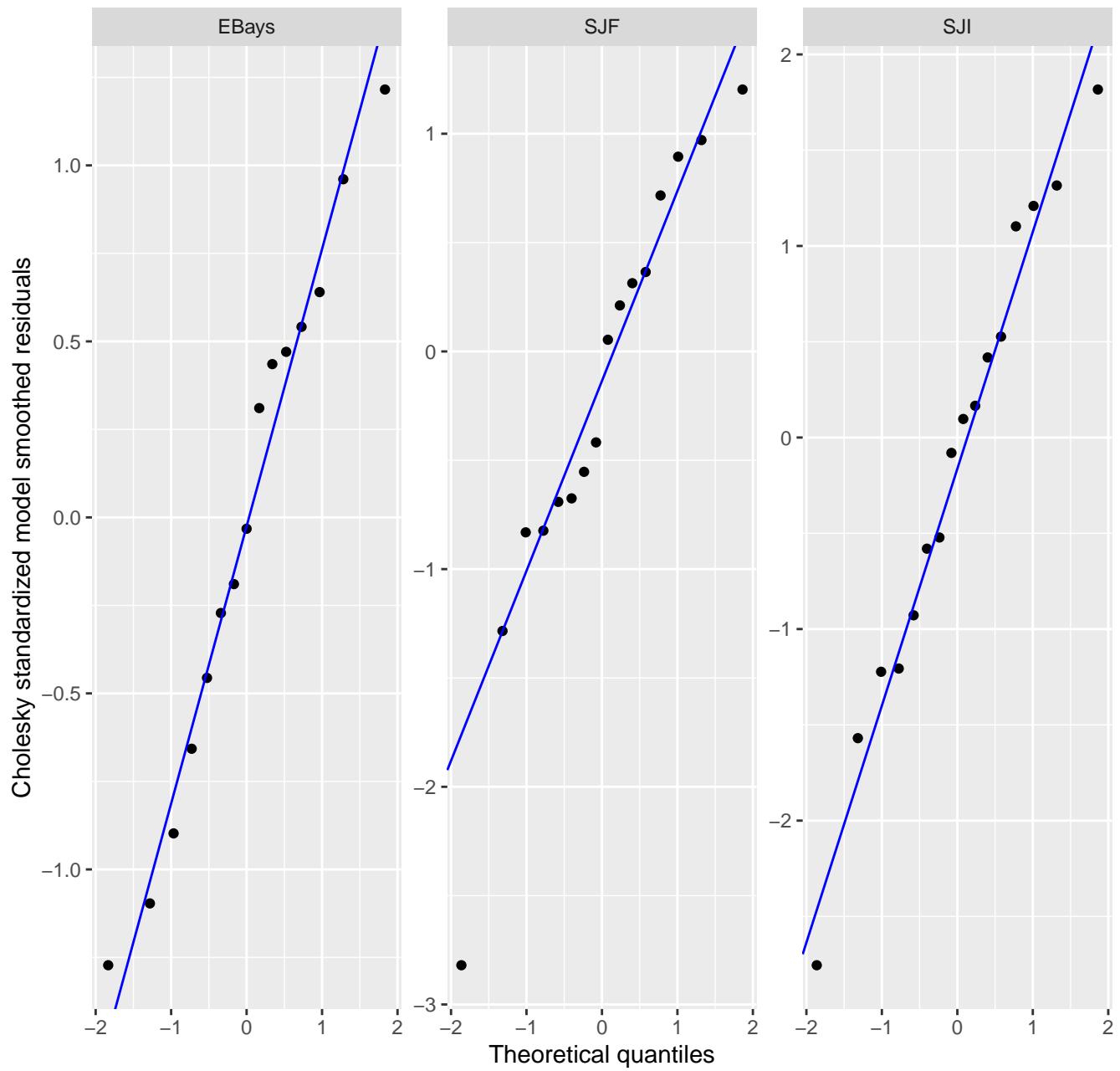
Model residuals



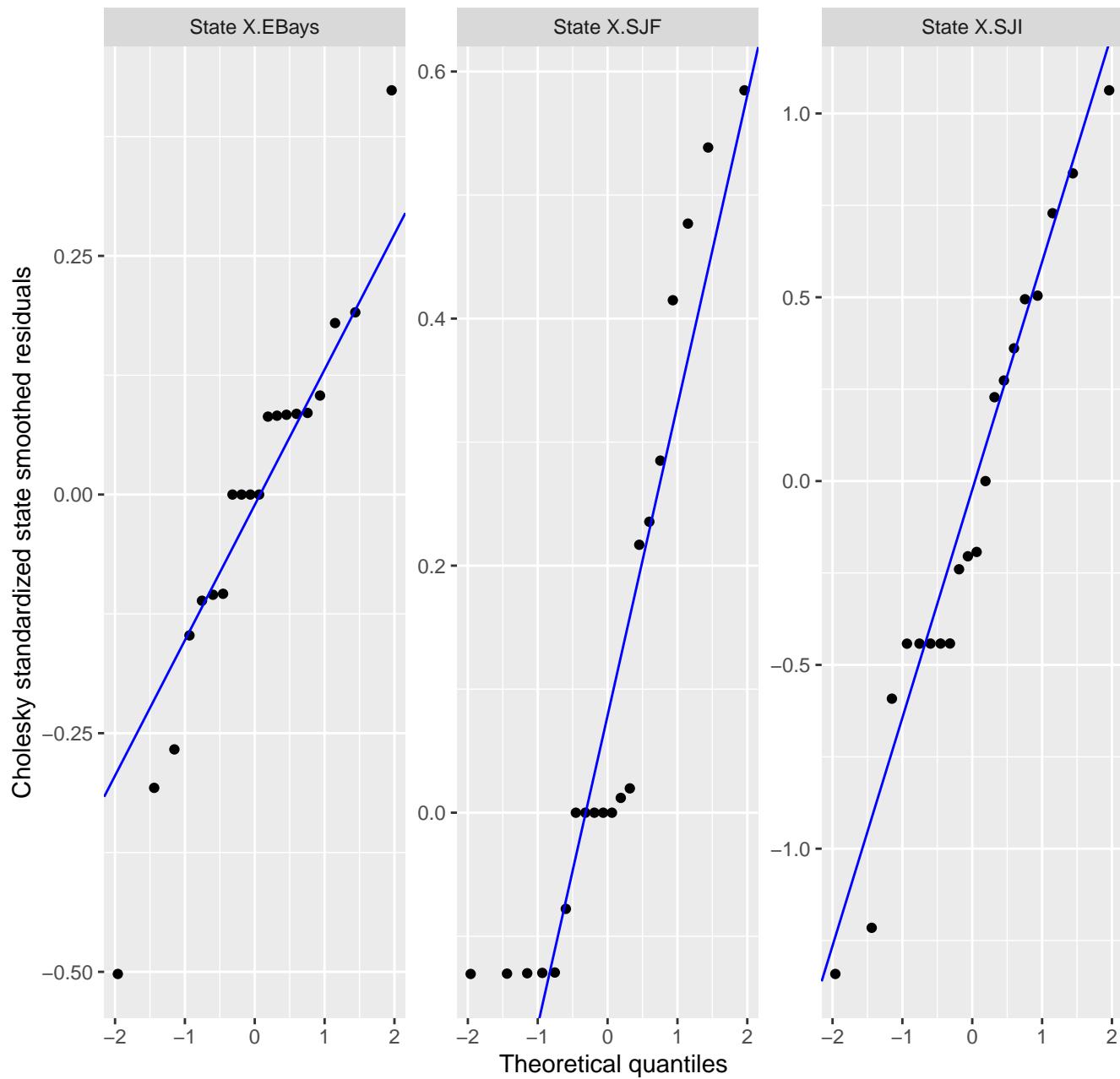
State residuals



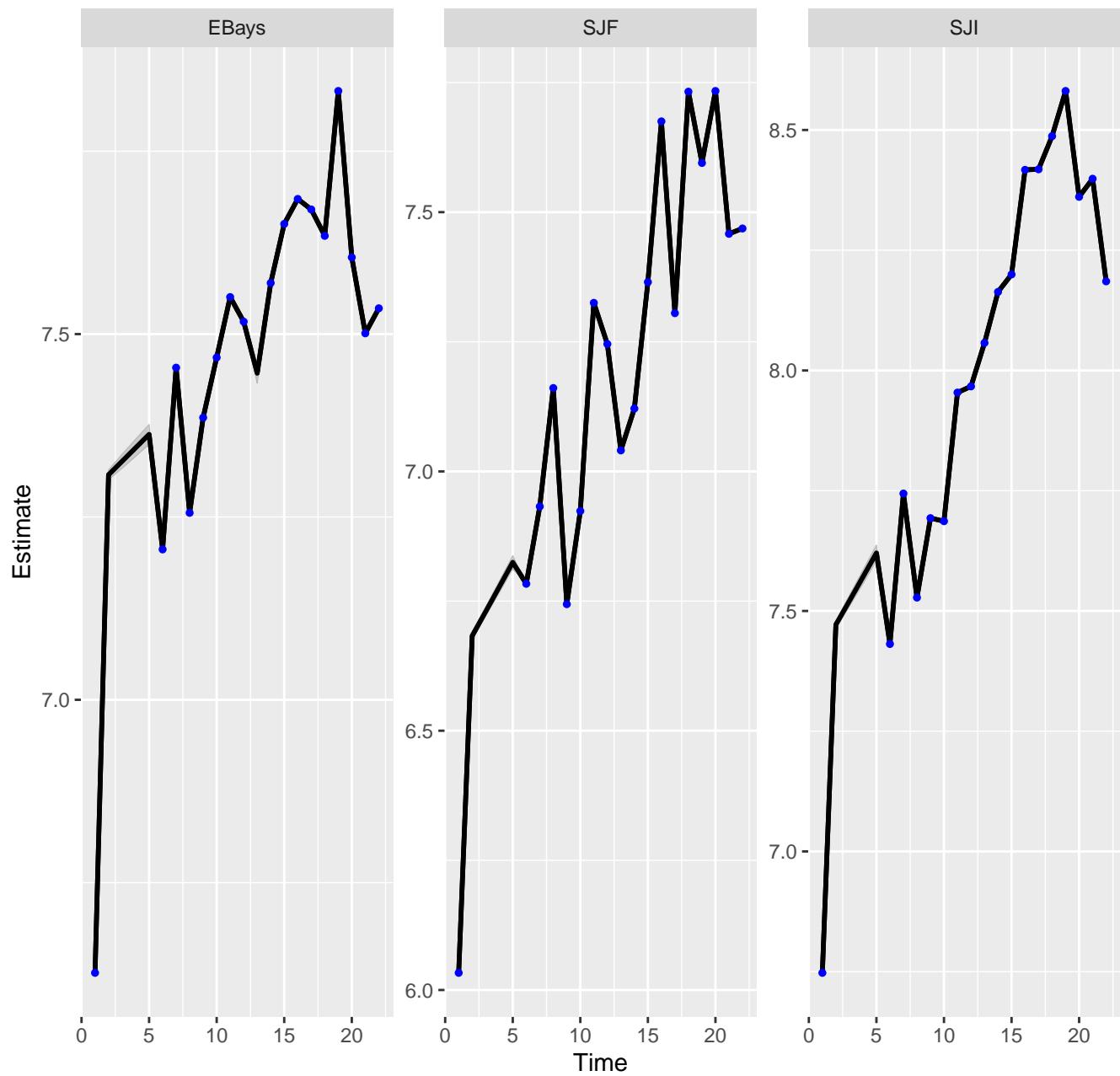
Model residuals normality test



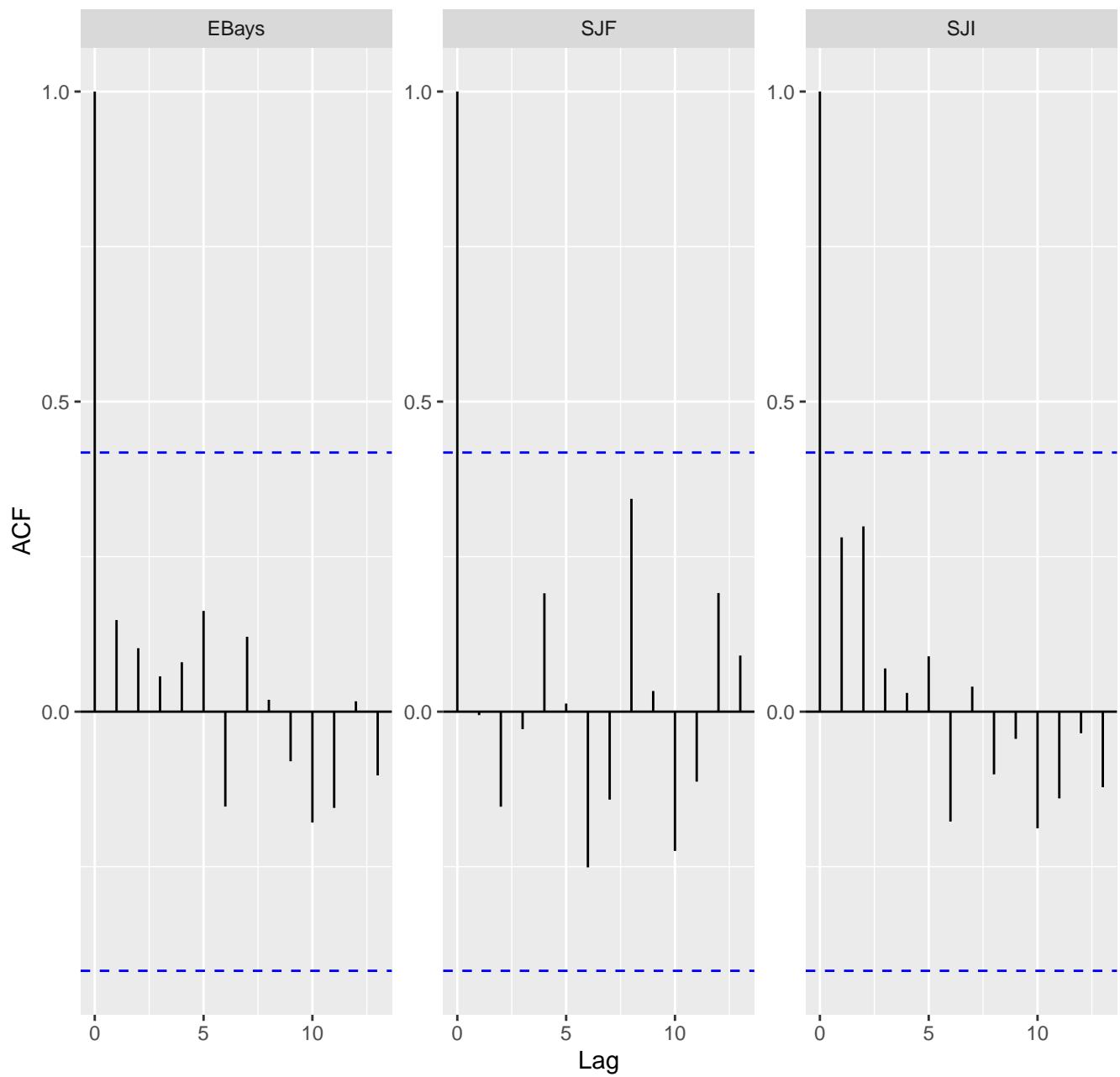
State residuals normality test

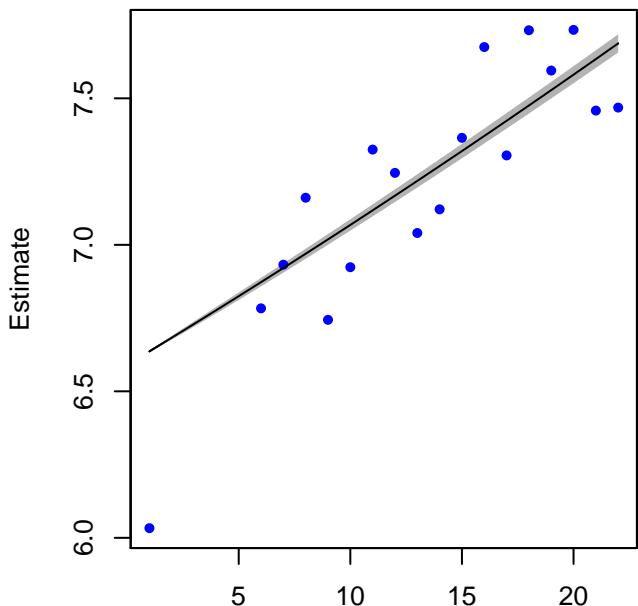
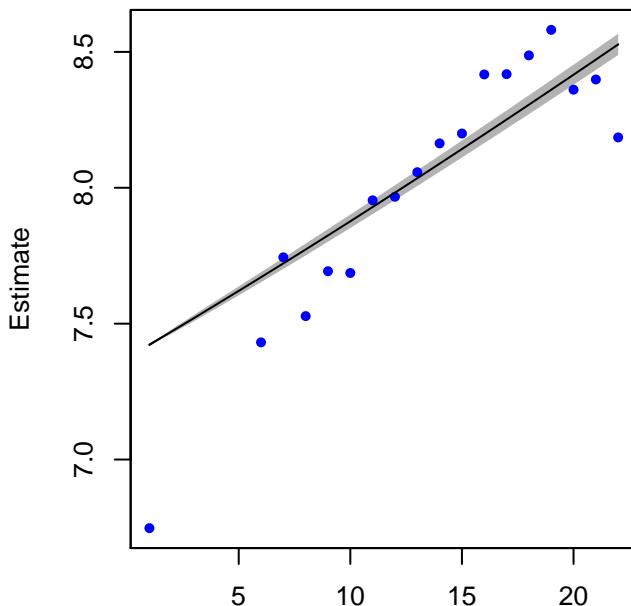
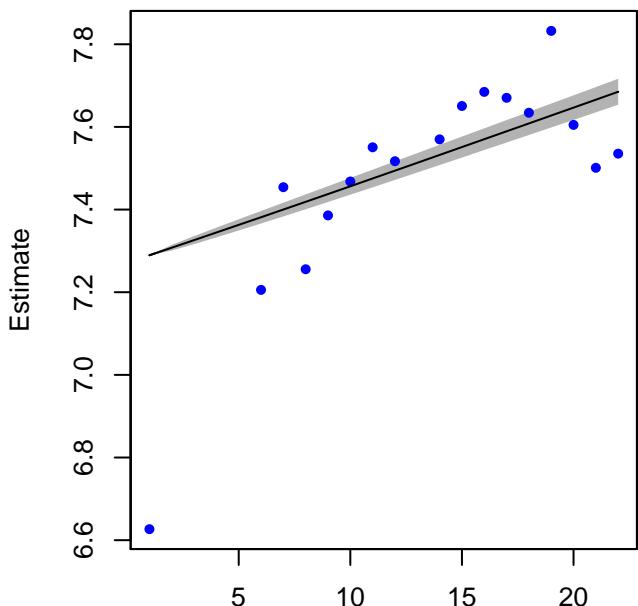


Expected value of Y conditioned on data

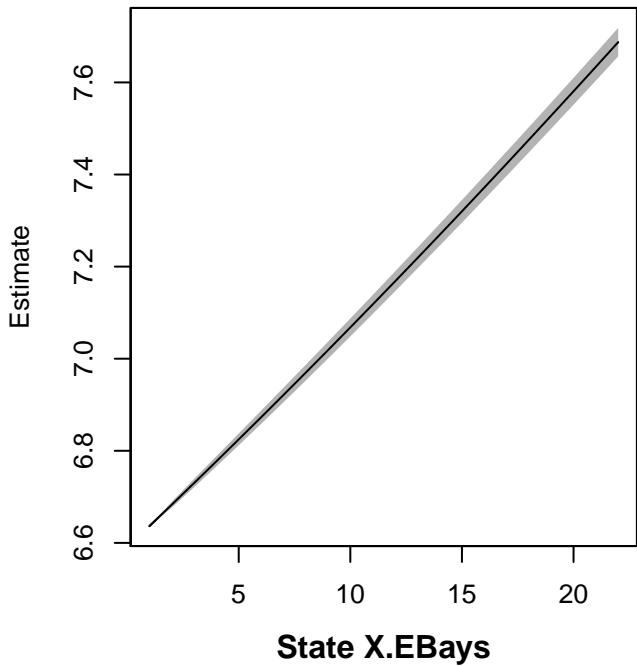


Model innovations residuals ACF

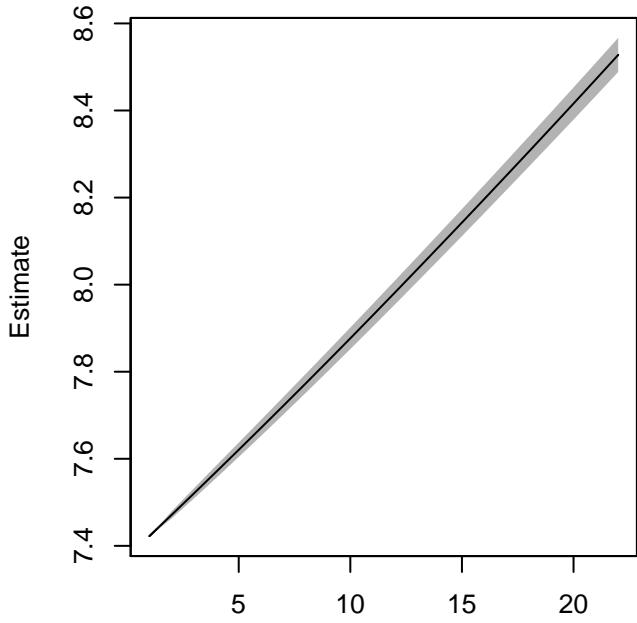


SJF + CI**SJI + CI****EBays + CI**

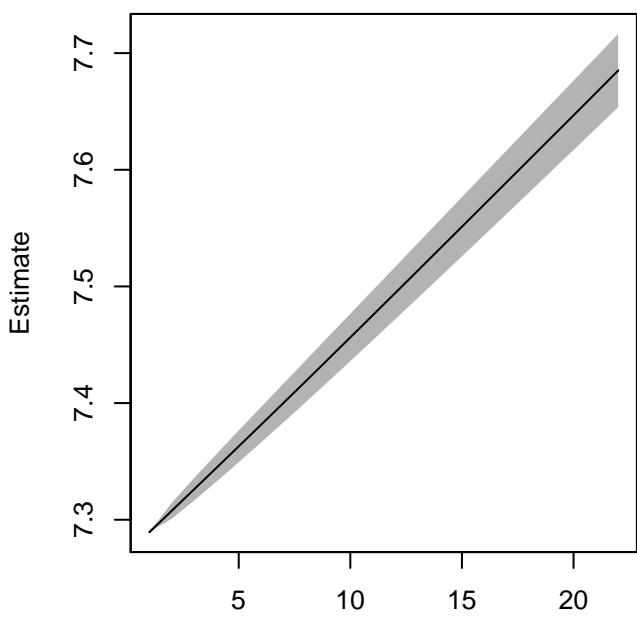
State X.SJF

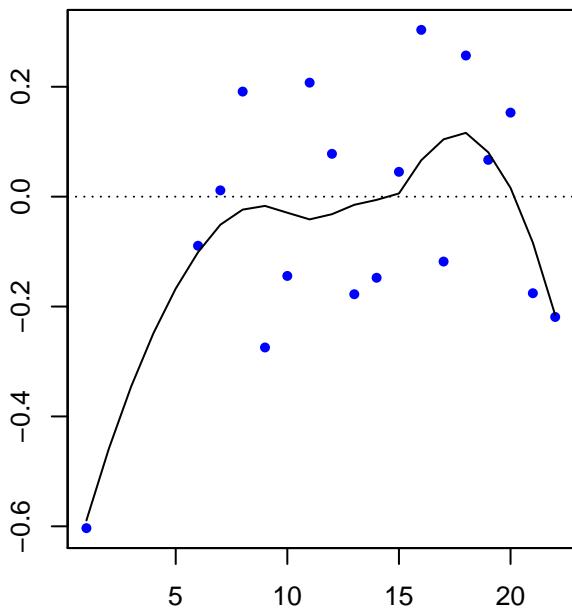
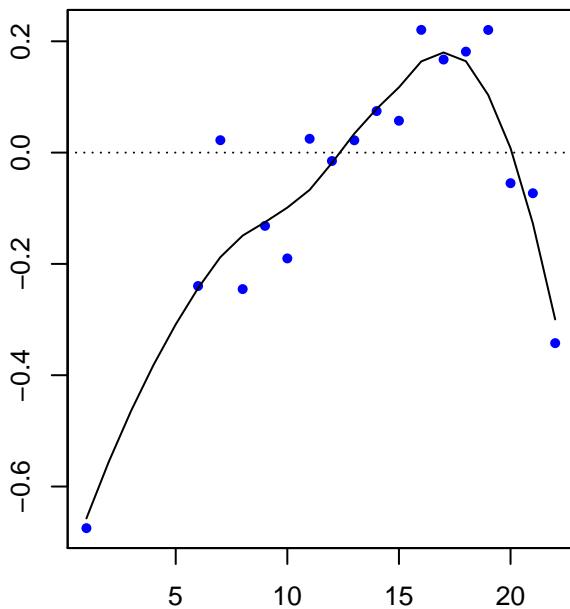
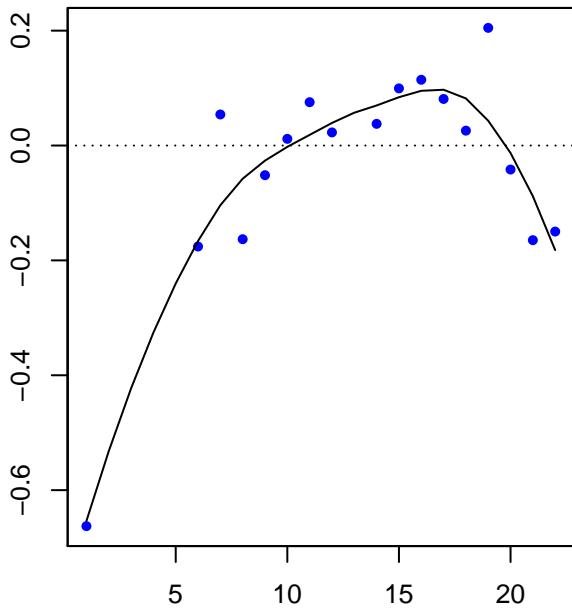


State X.SJI

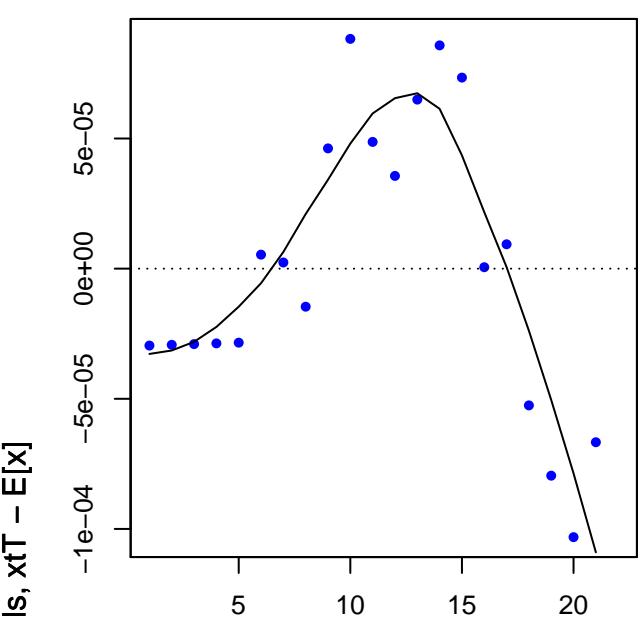


State X.EBays

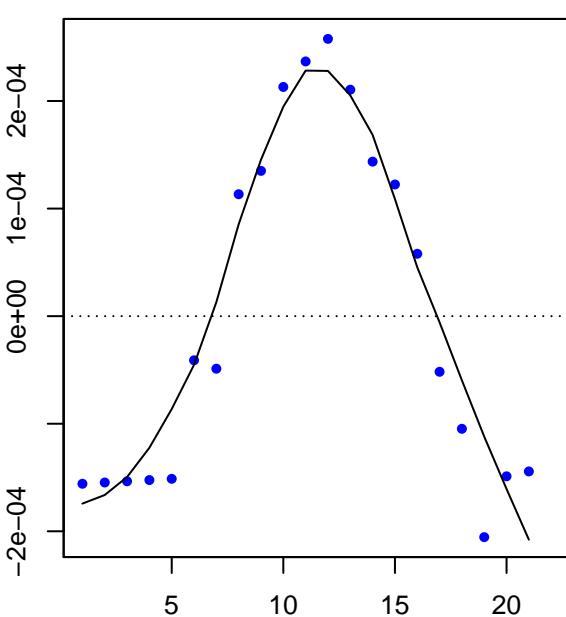


SJFObservation residuals, $y - E[y]$ **SJI****EBays**

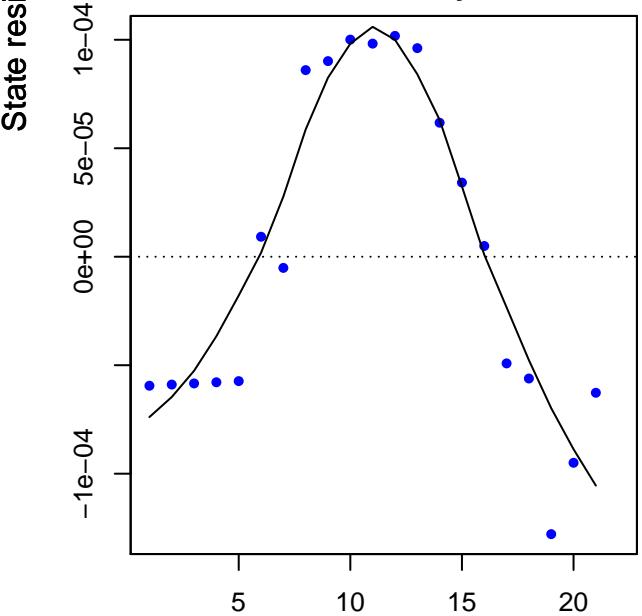
State X.SJF

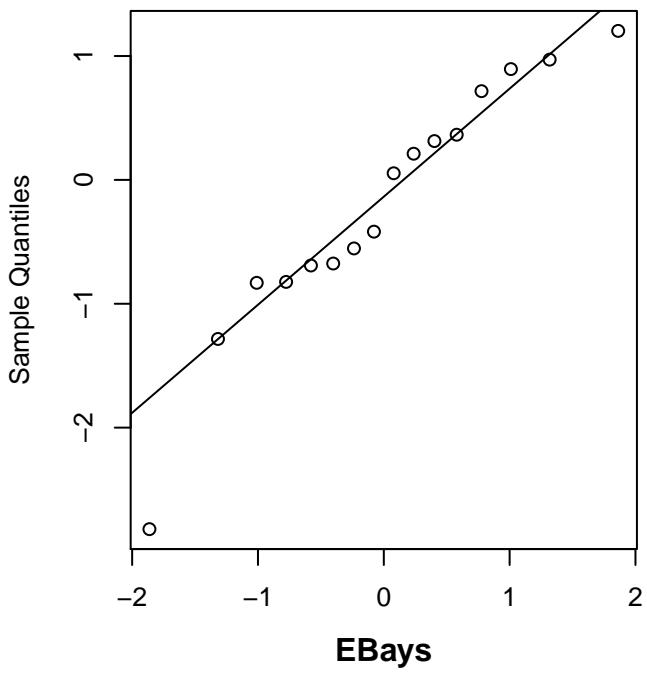
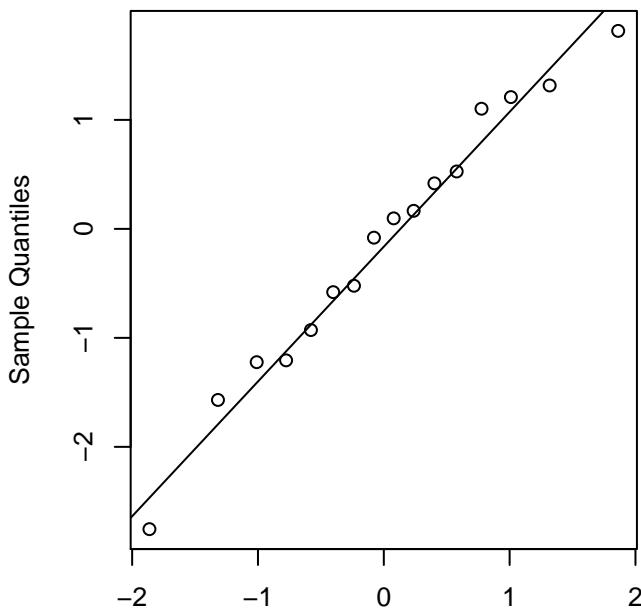
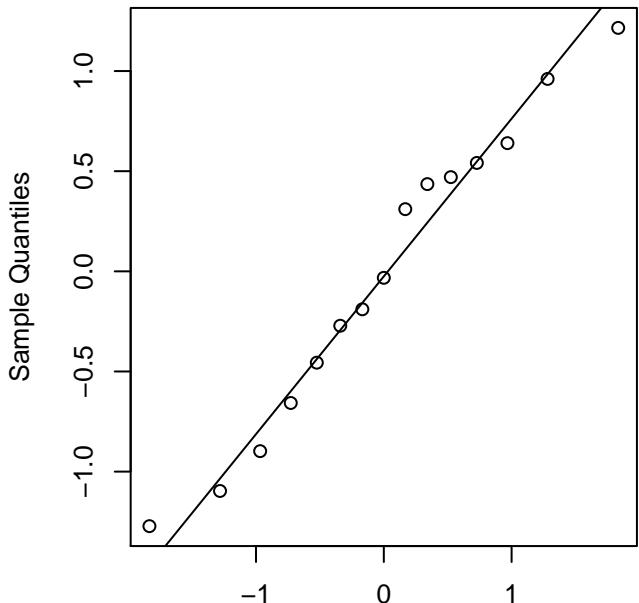


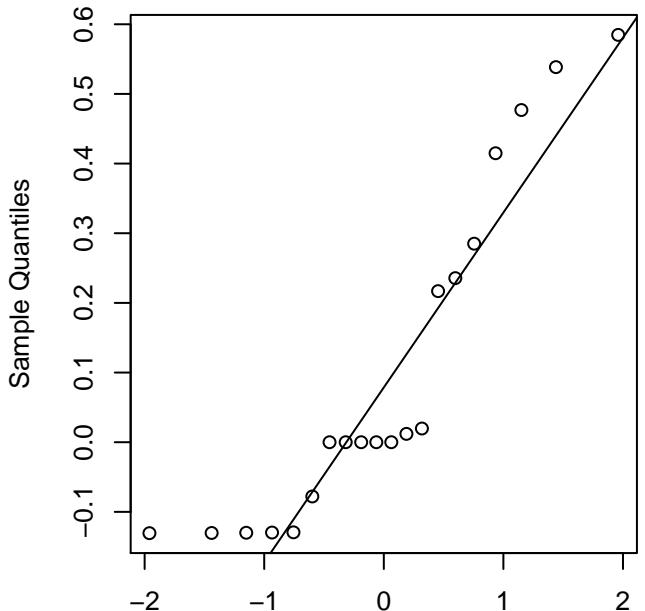
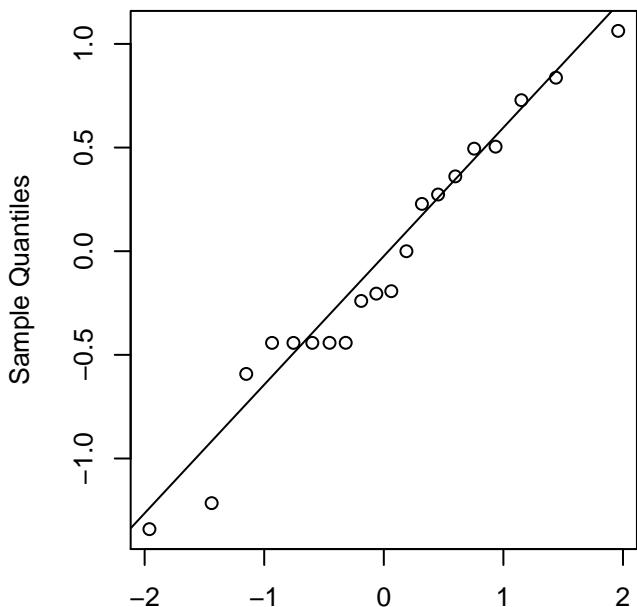
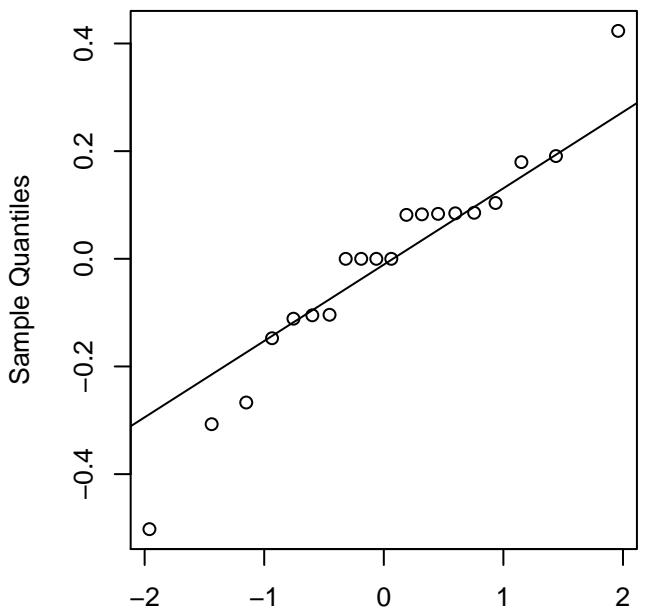
State X.SJI

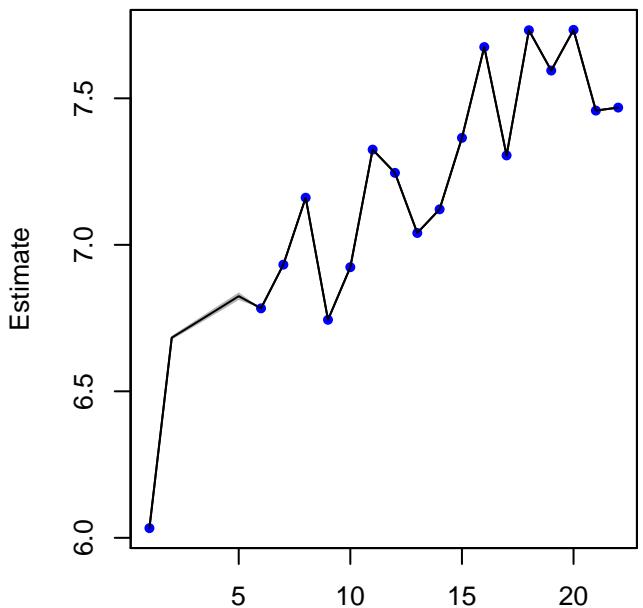
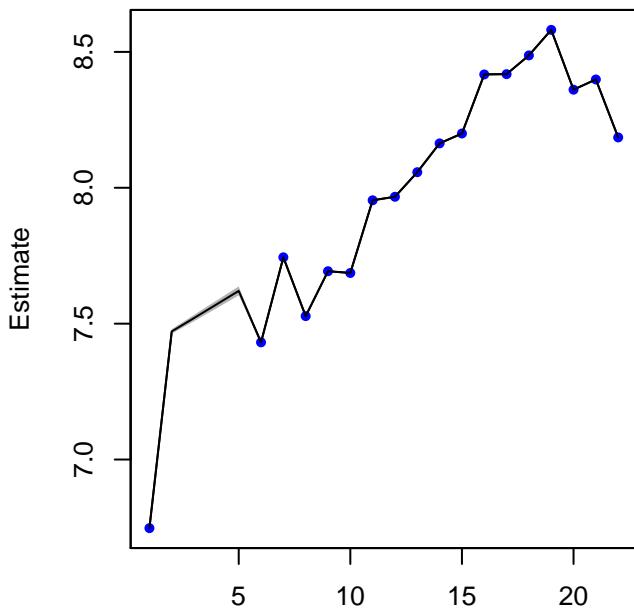
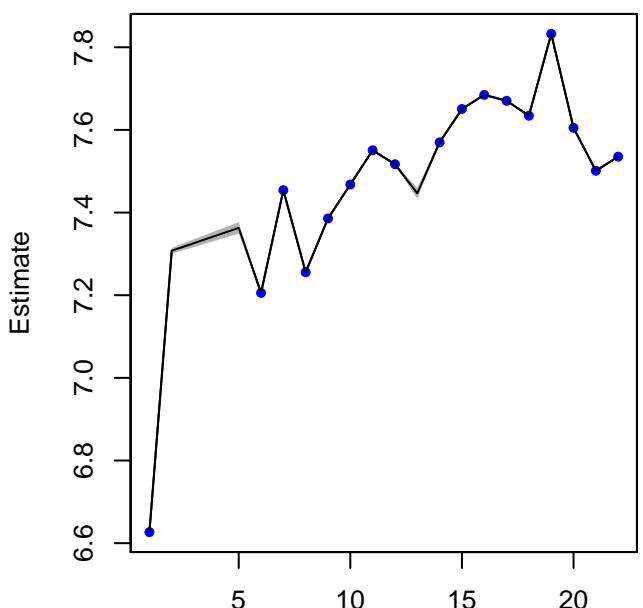


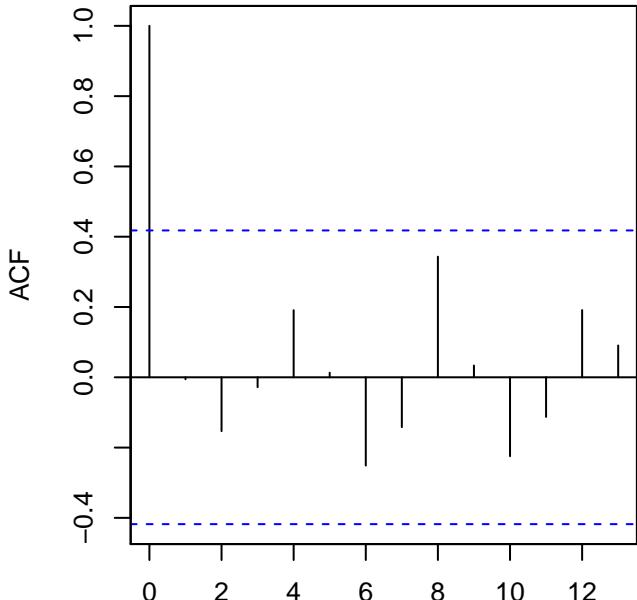
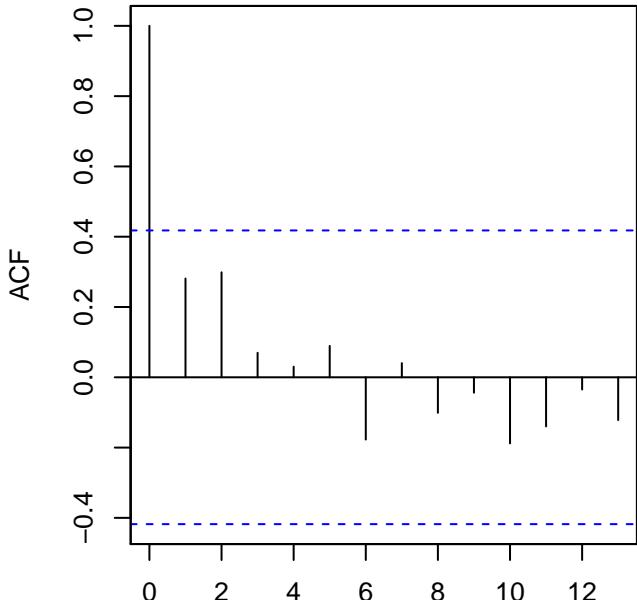
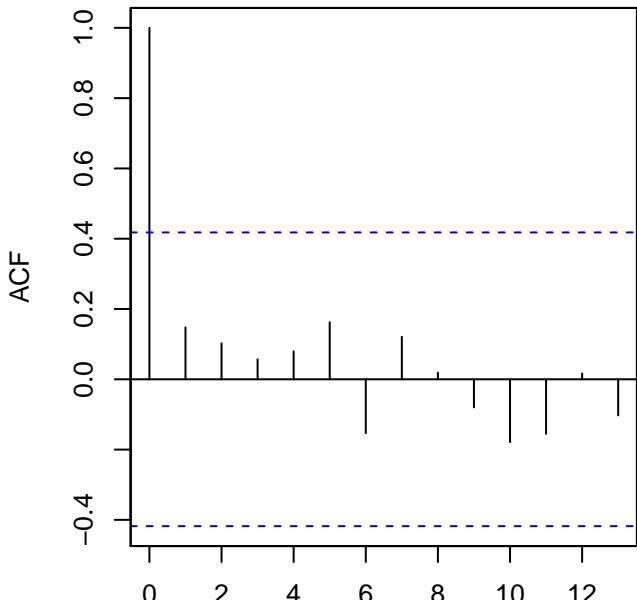
State X.EBays



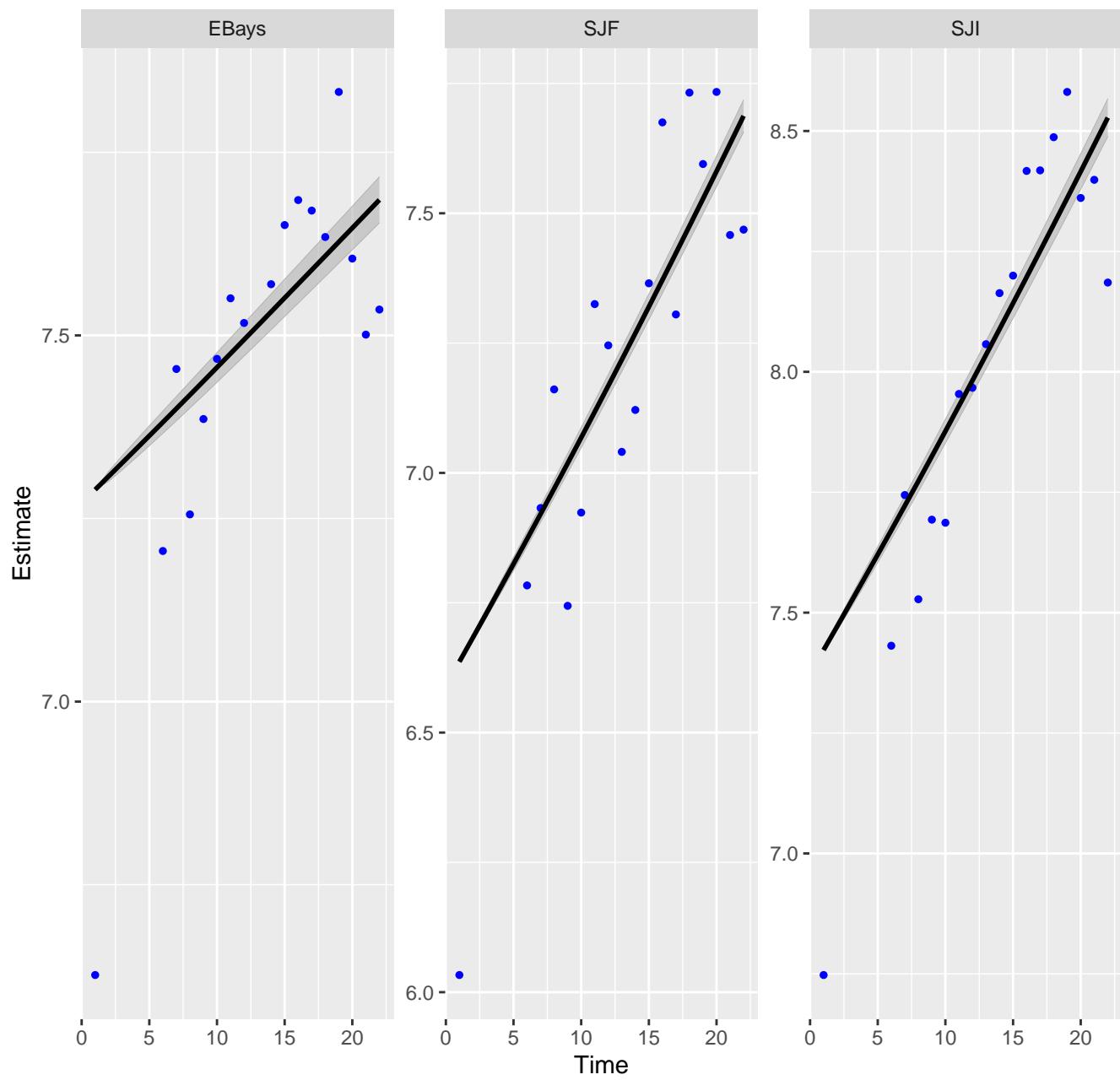
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

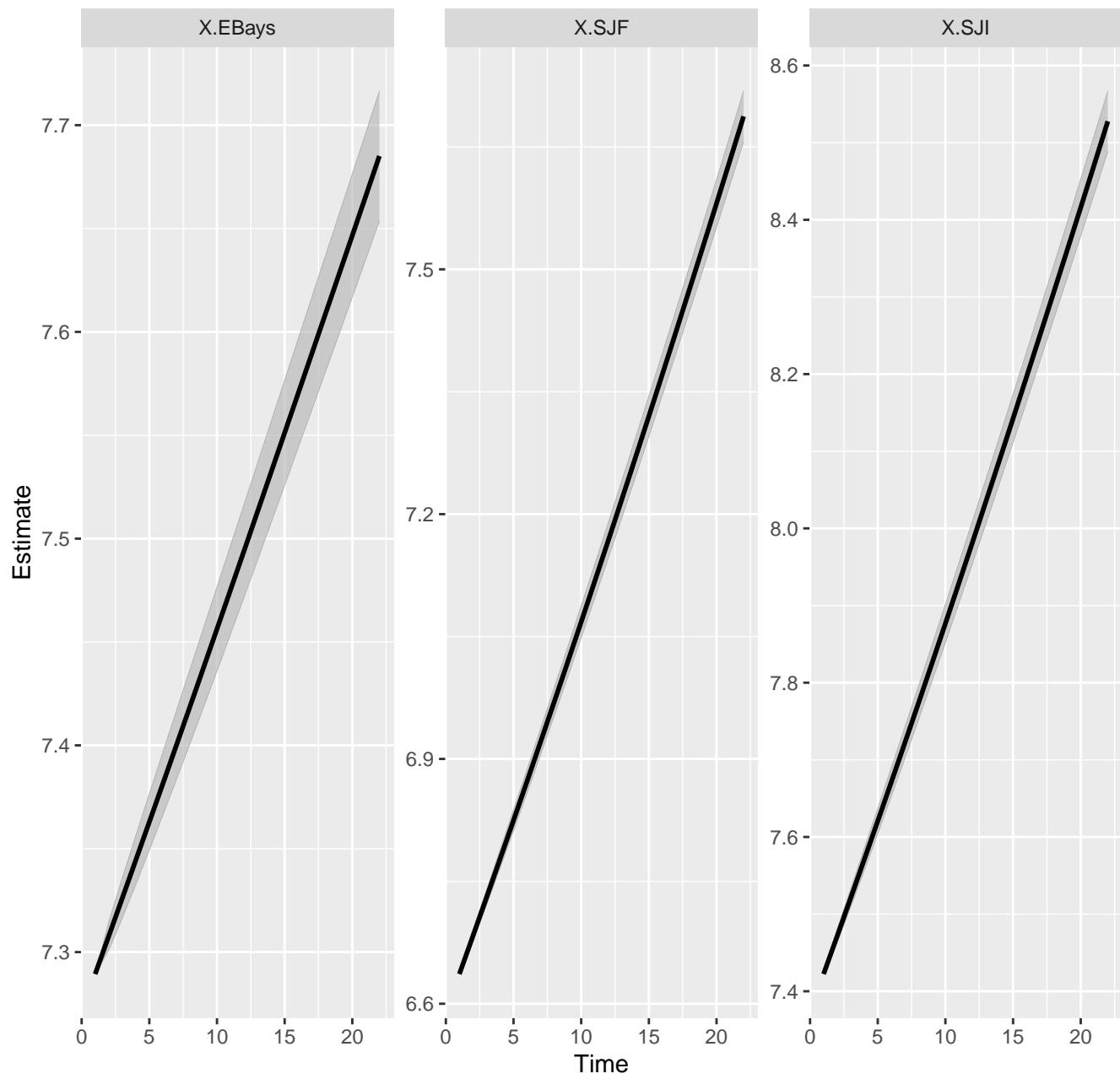
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

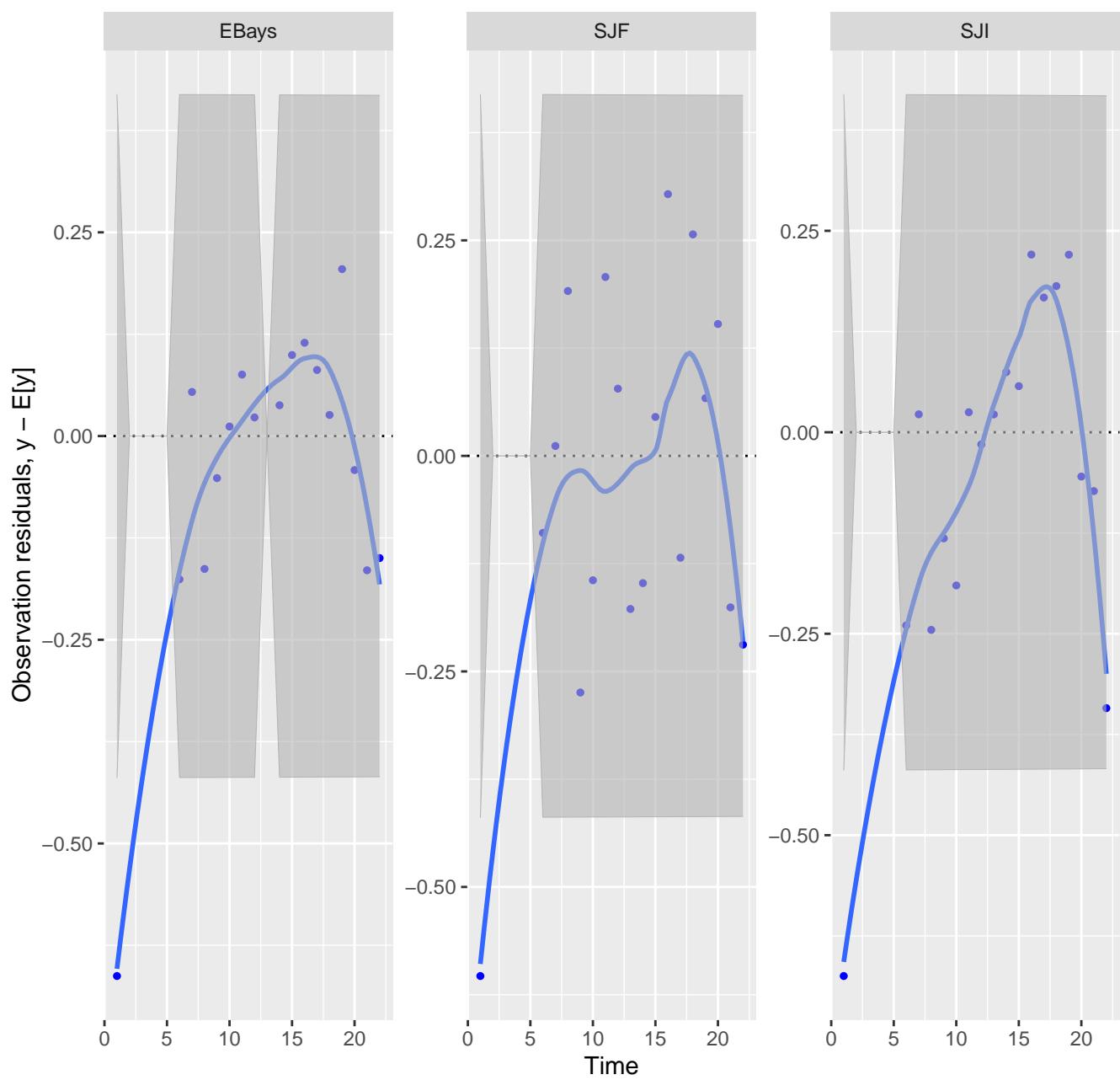
Model fitted Y + CI



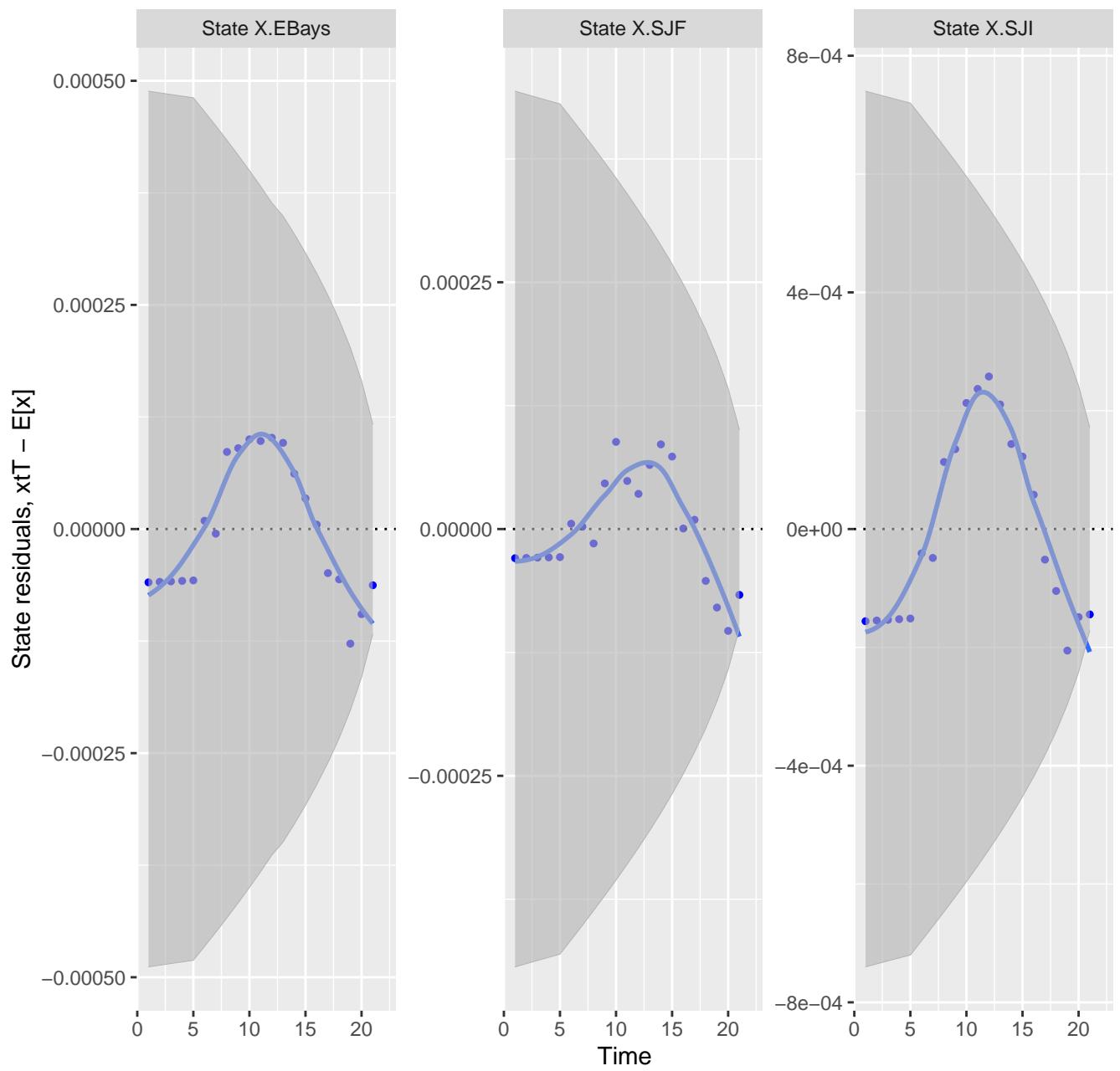
States



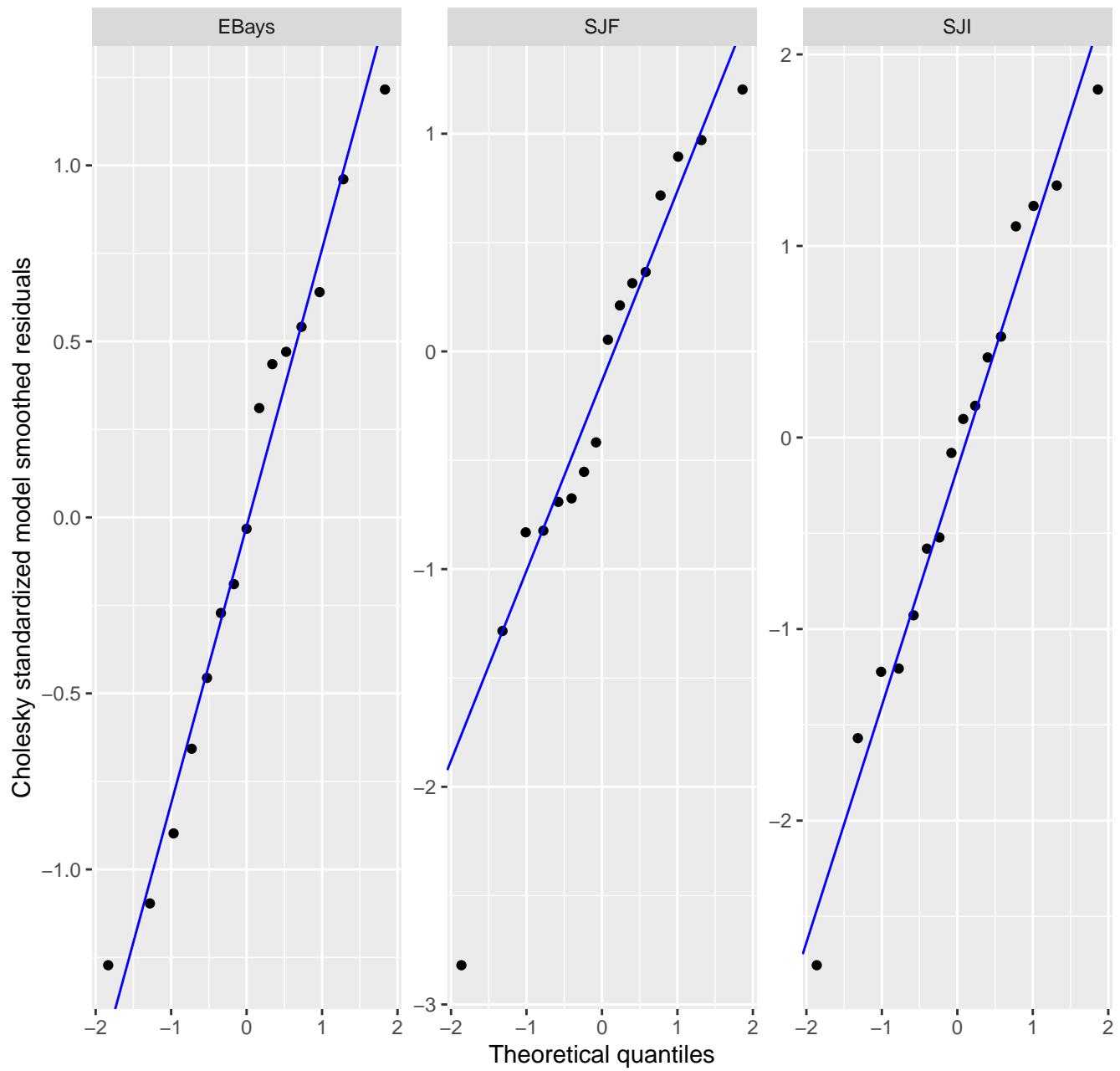
Model residuals



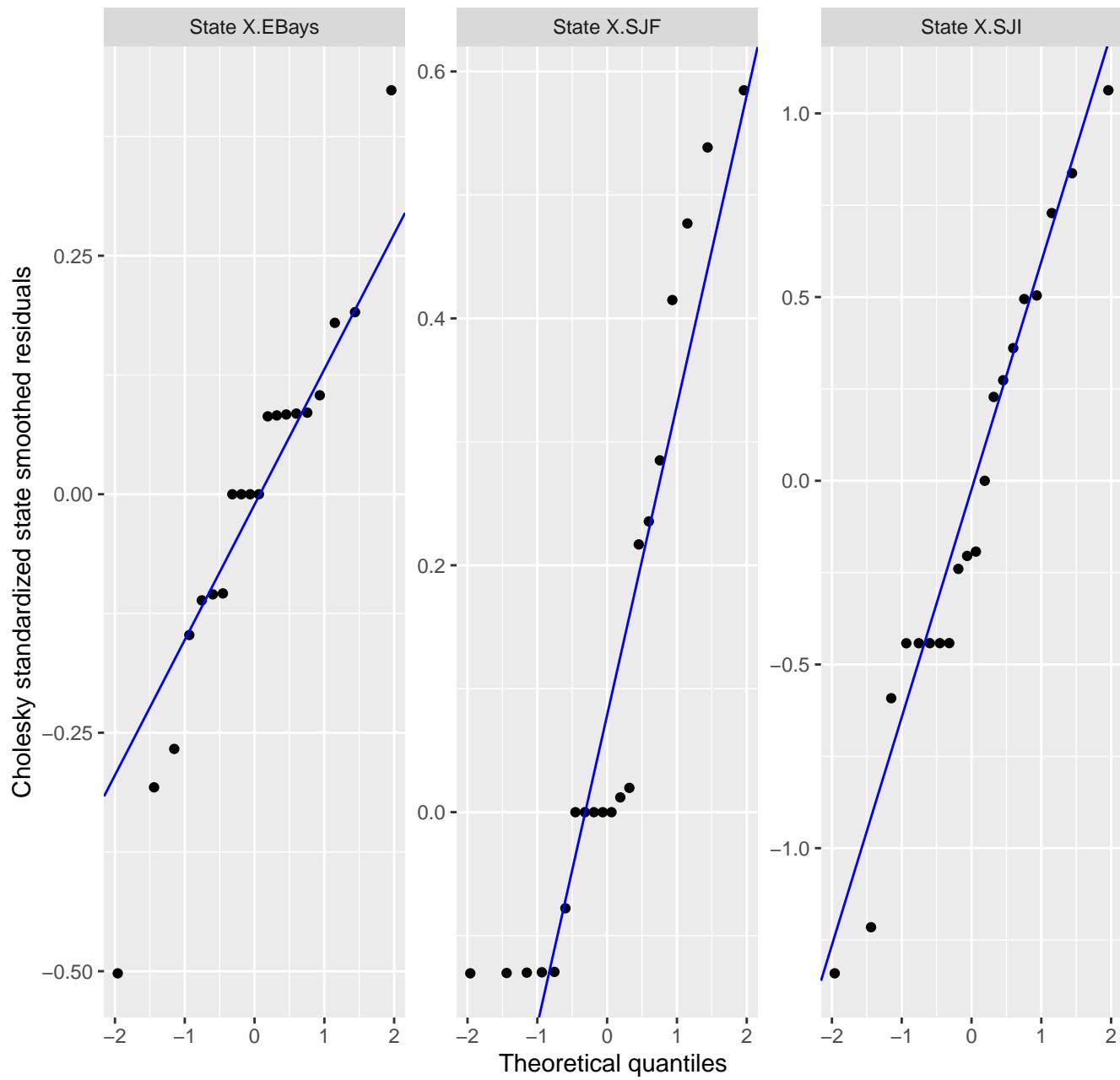
State residuals



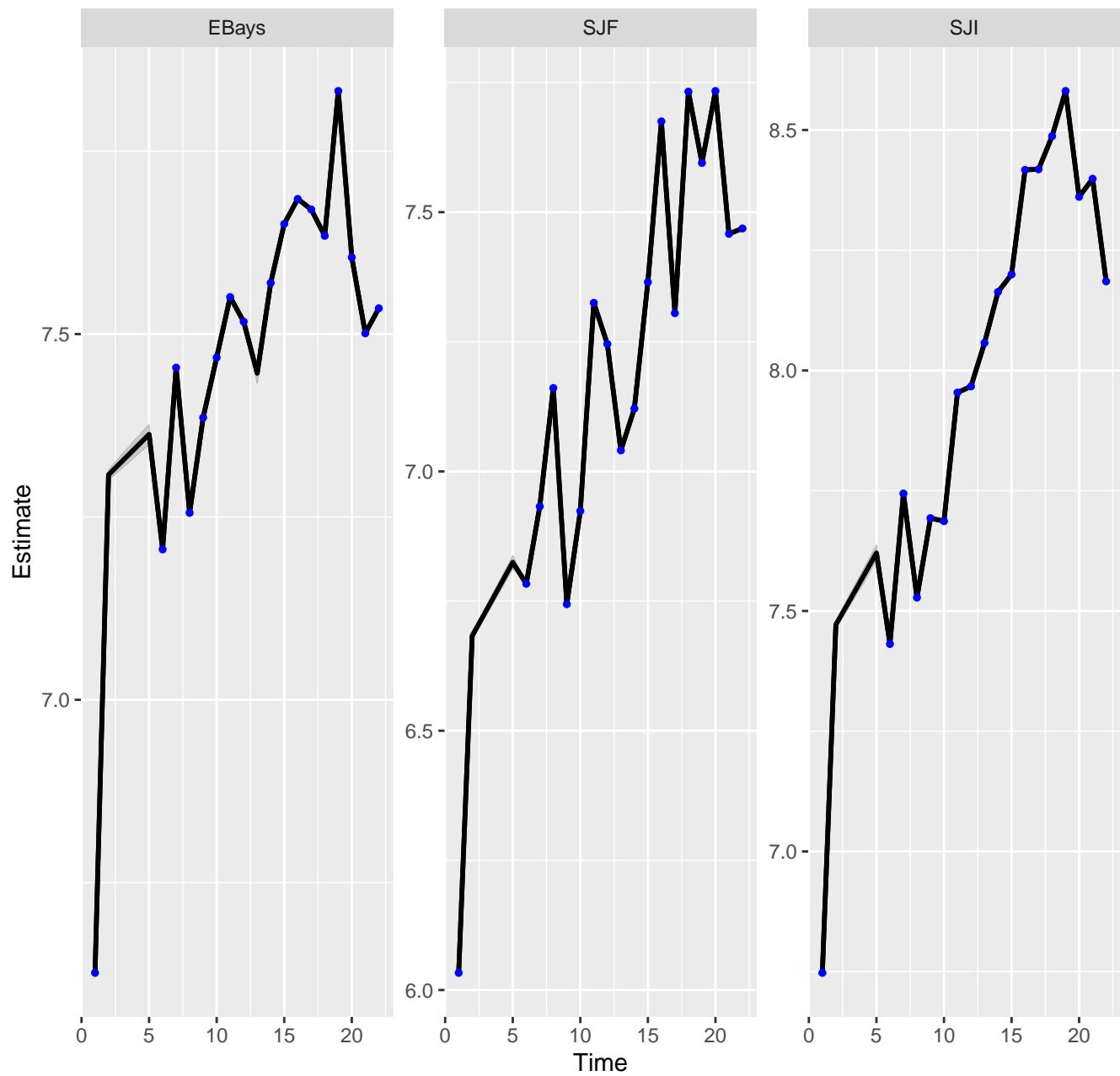
Model residuals normality test



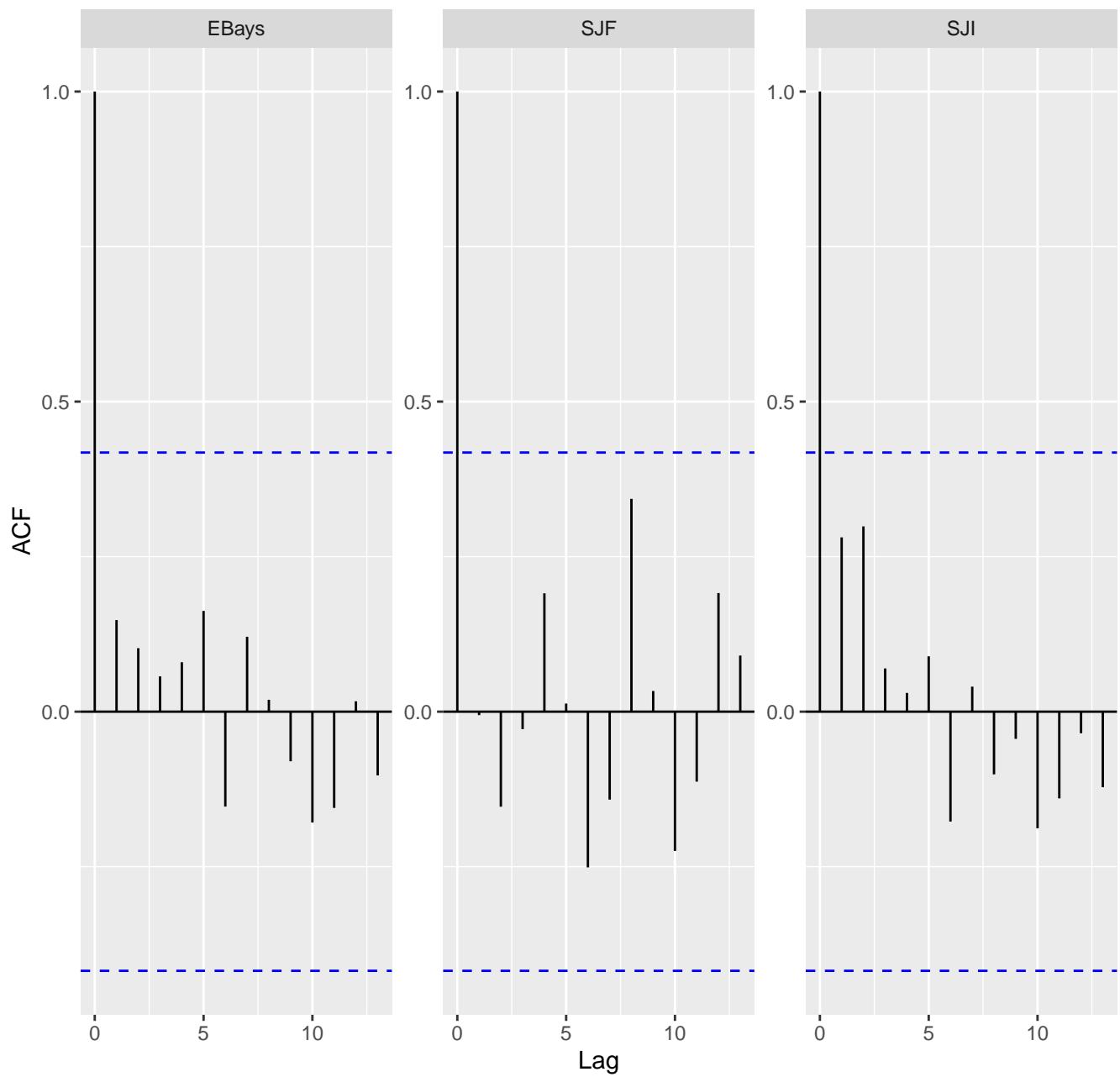
State residuals normality test

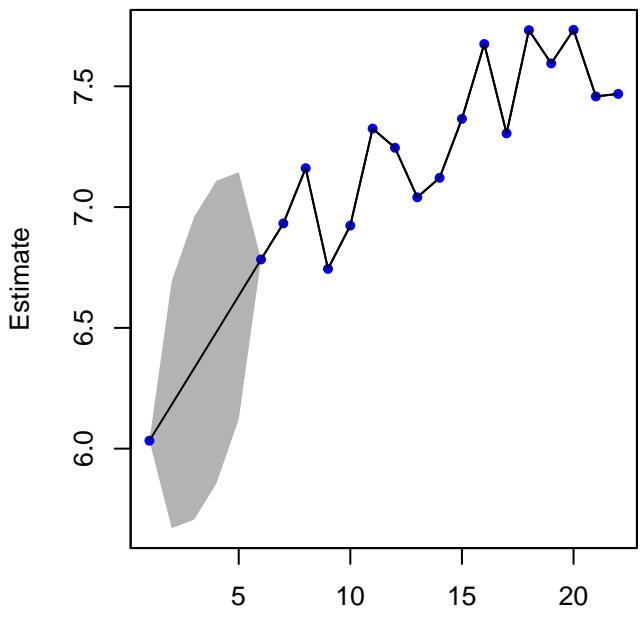
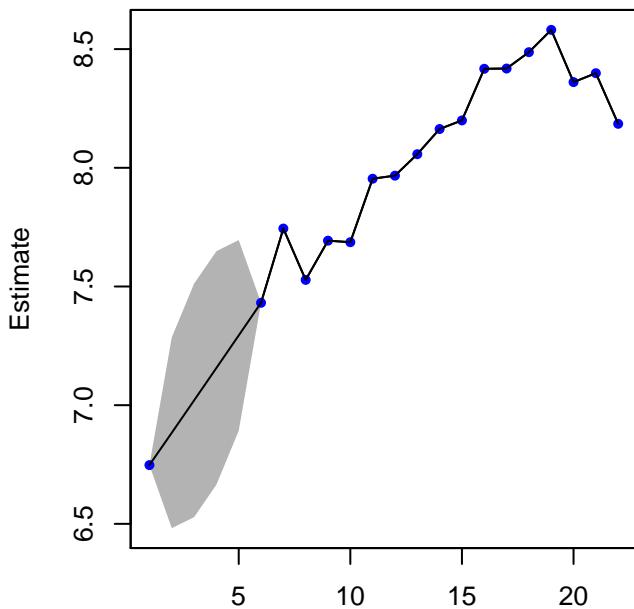
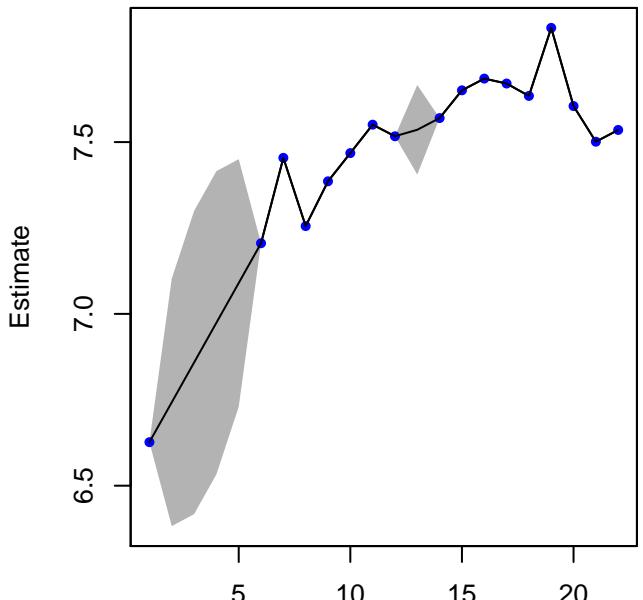


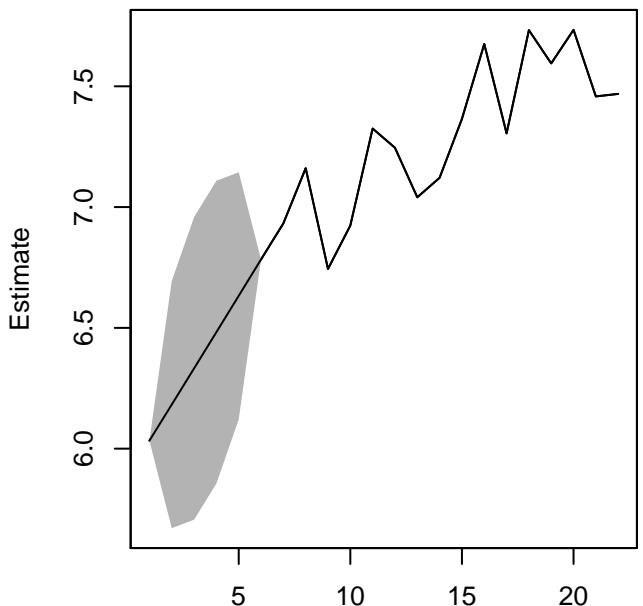
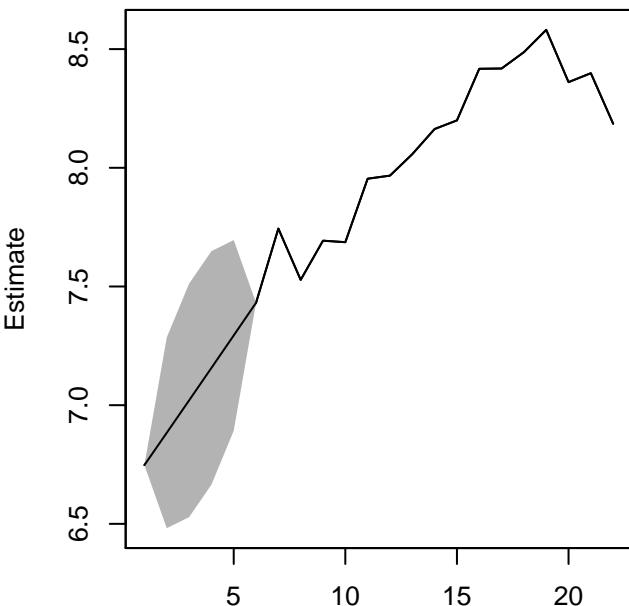
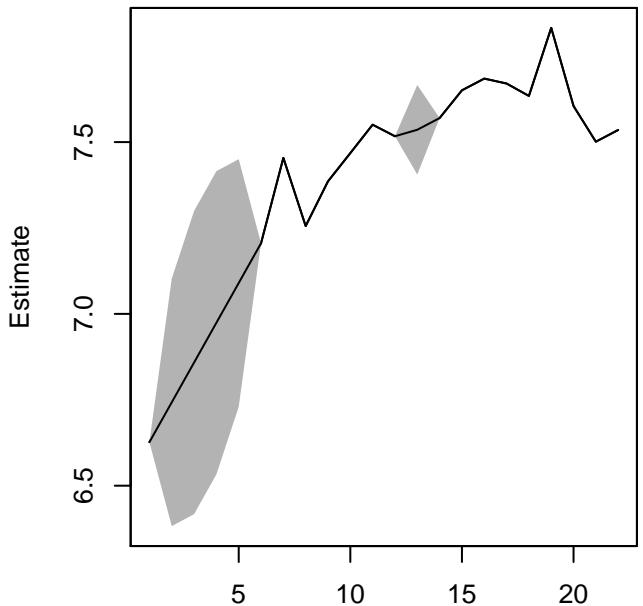
Expected value of Y conditioned on data



Model innovations residuals ACF

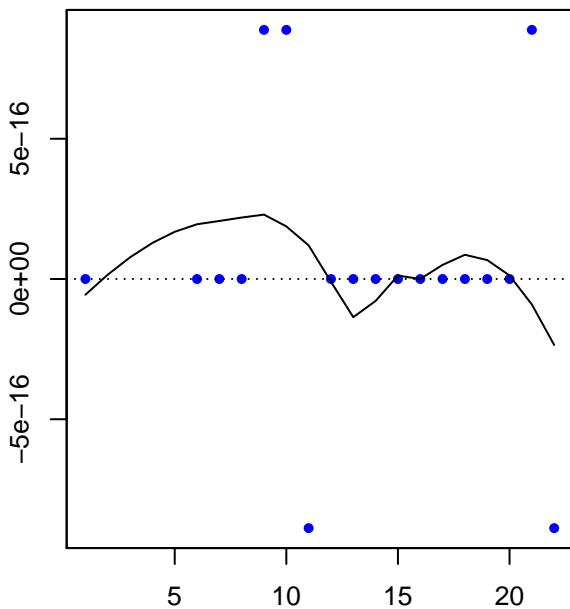


SJF + CI**SJI + CI****EBays + CI**

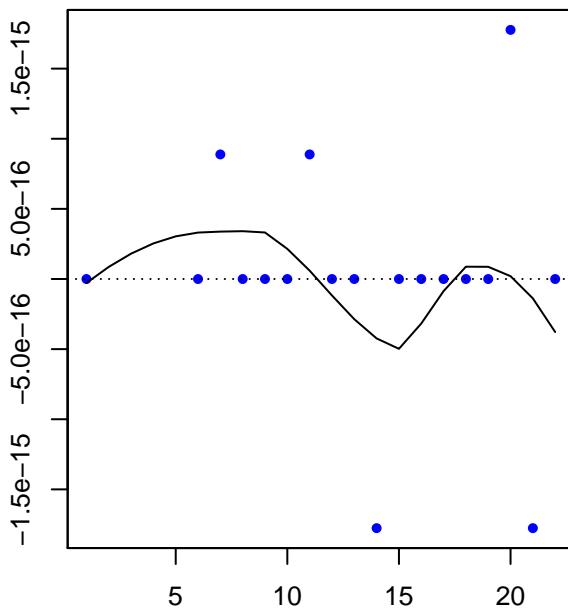
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

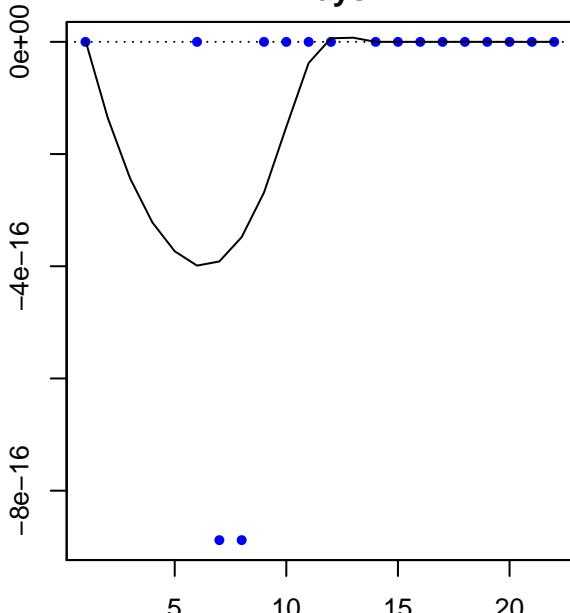
SJF



SJI

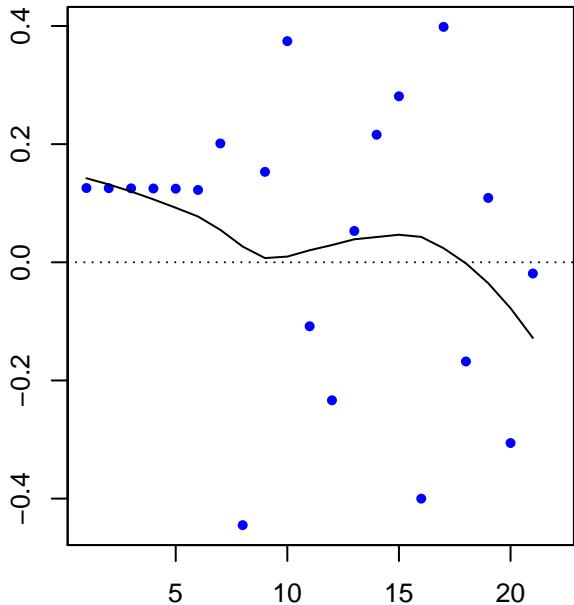


EBays

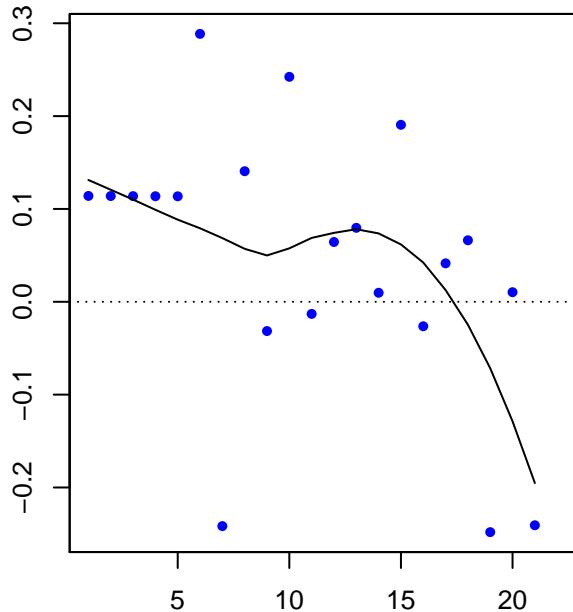


State residuals, $x_{tT} - E[x]$

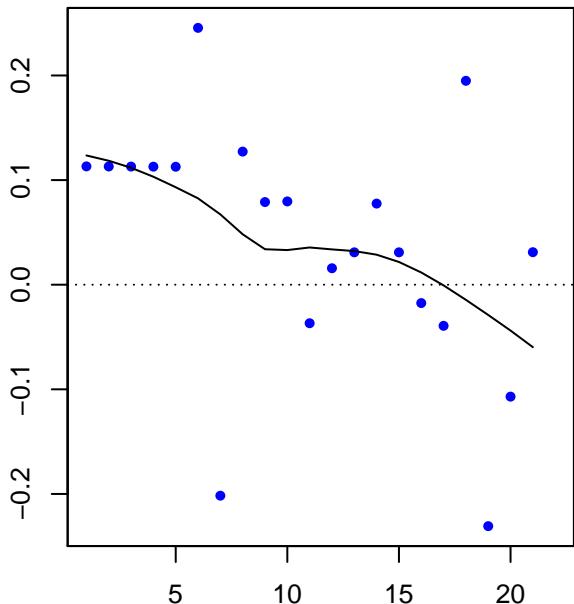
State X.SJF

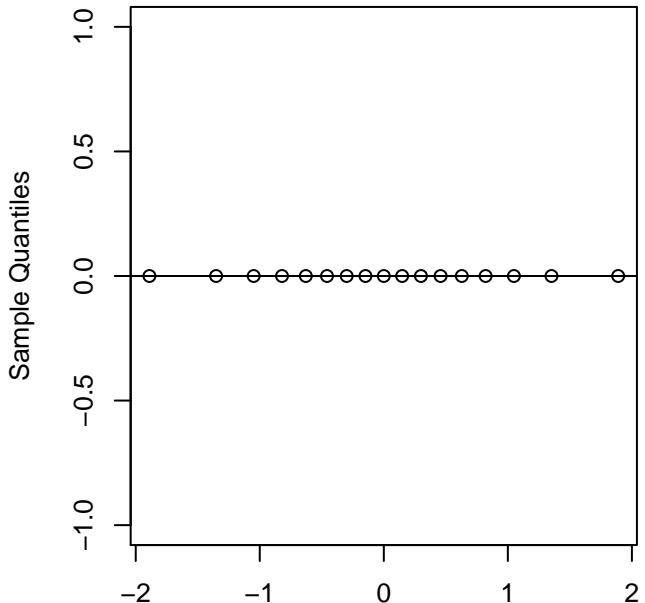
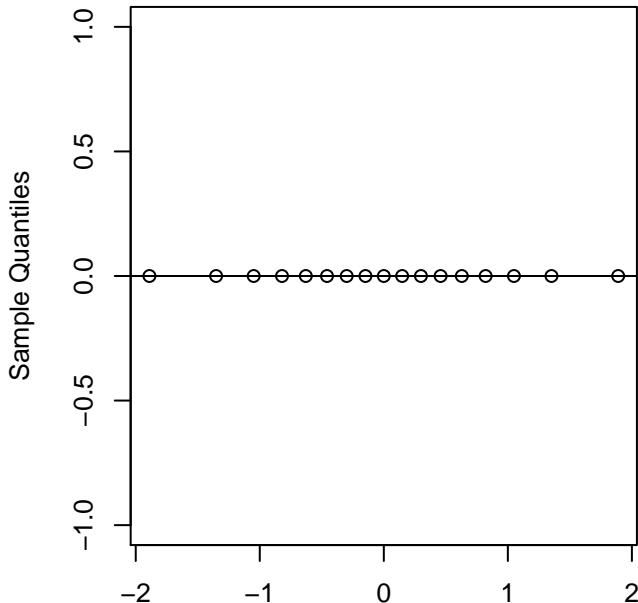
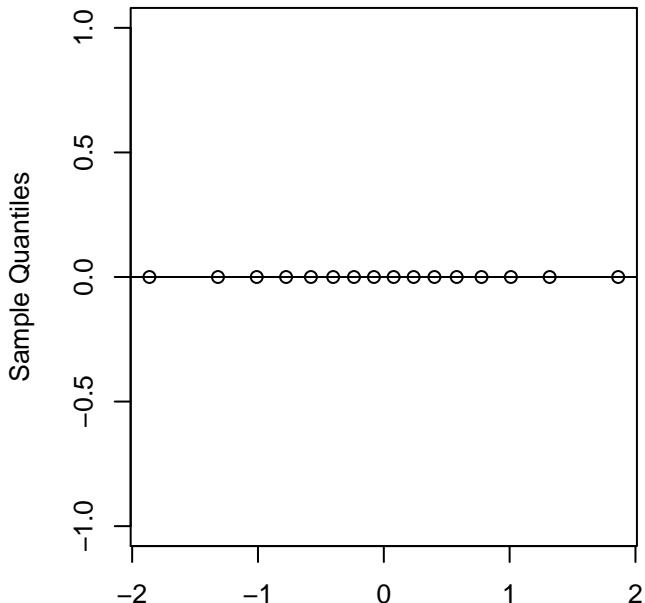


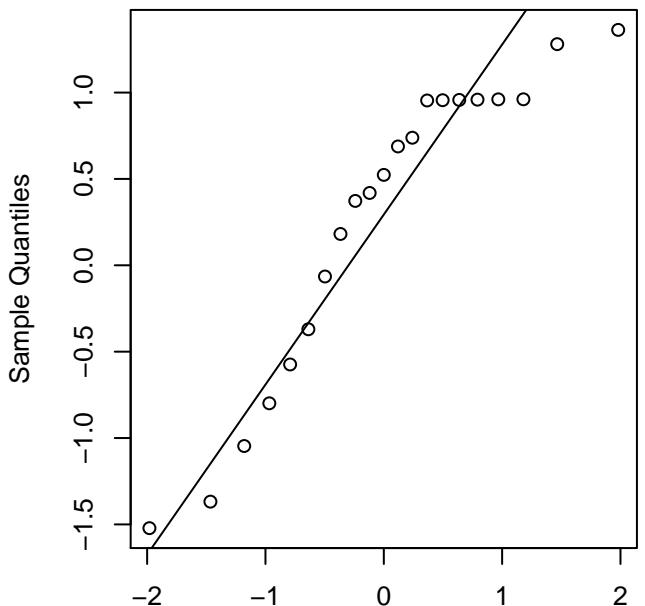
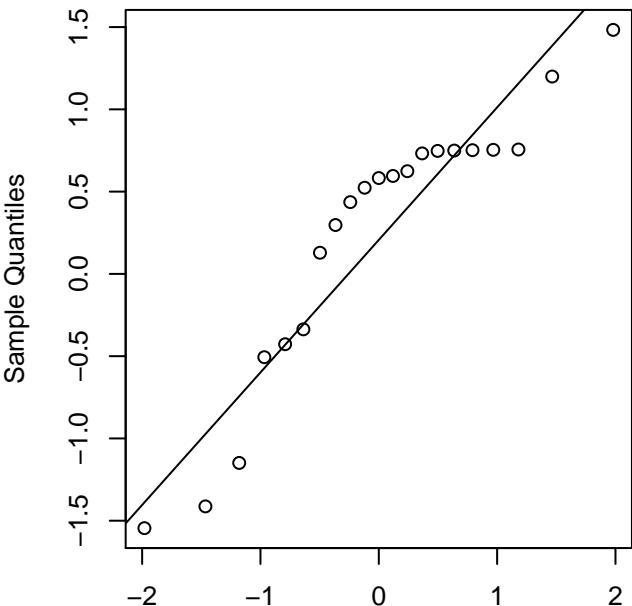
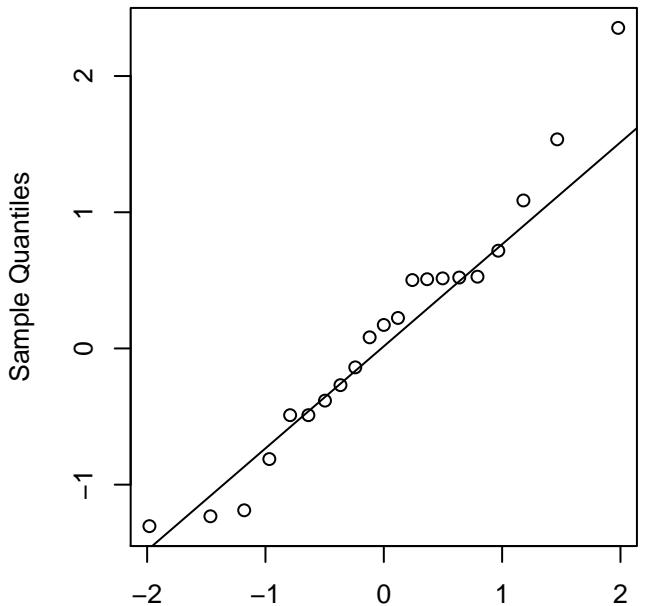
State X.SJI

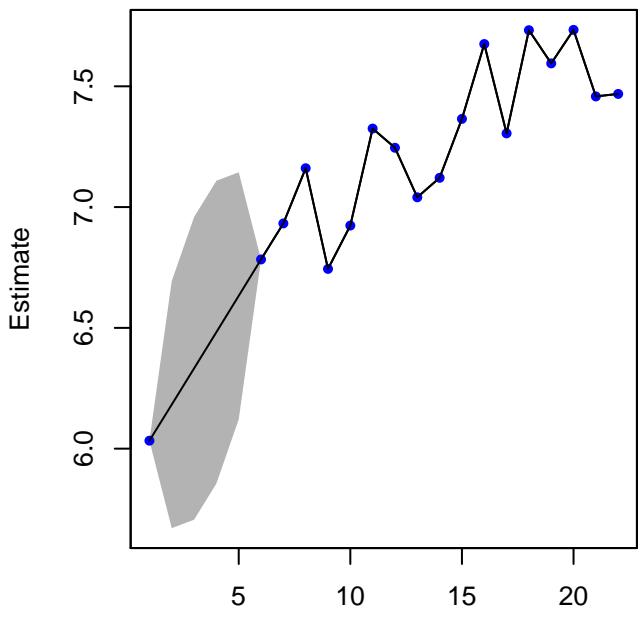
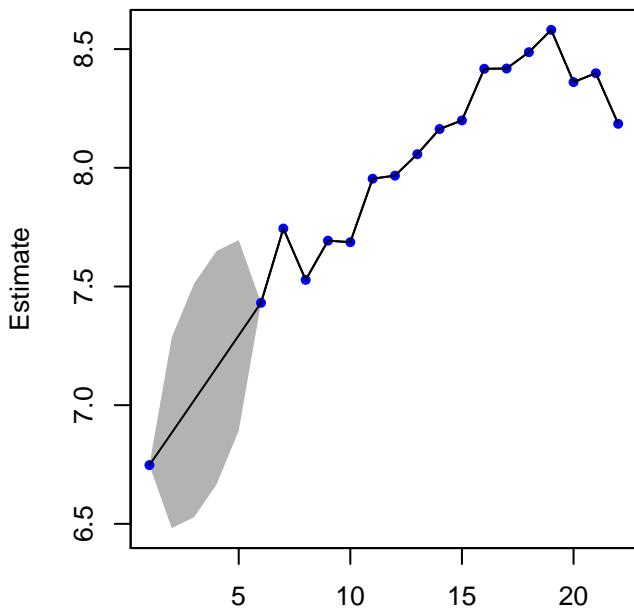
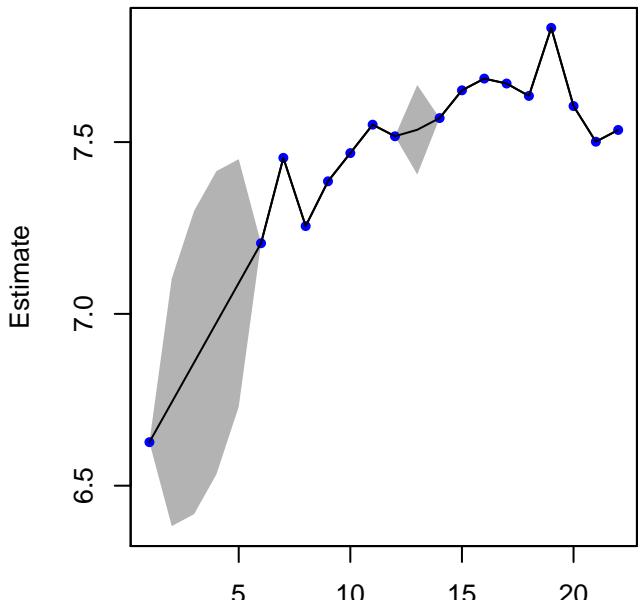


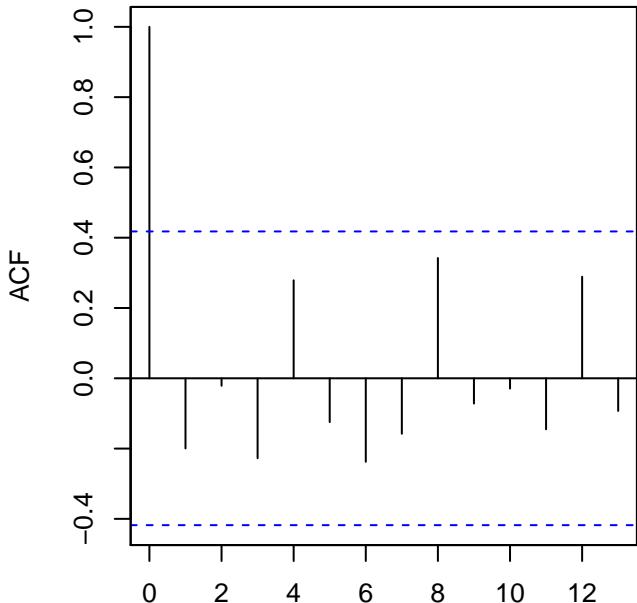
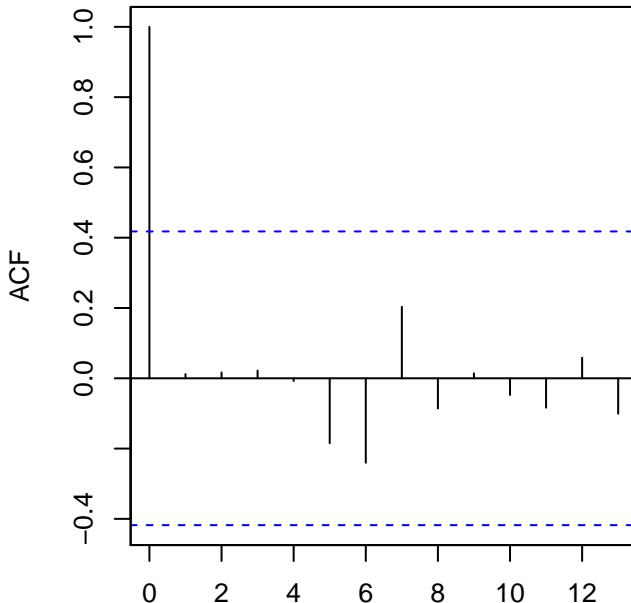
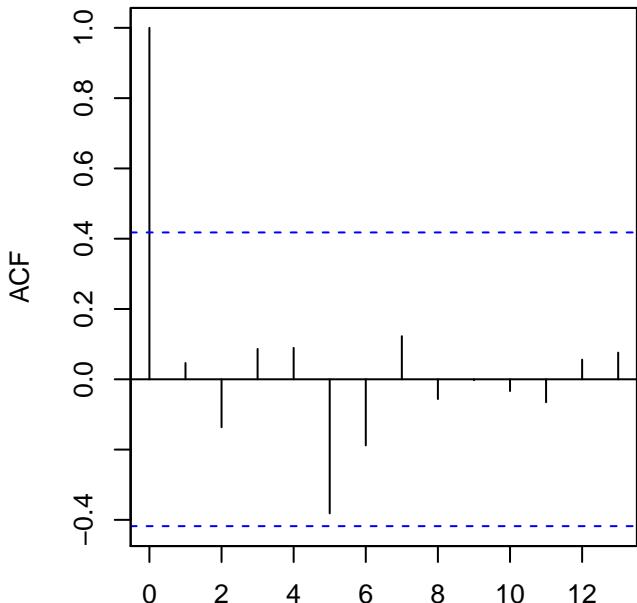
State X.EBays



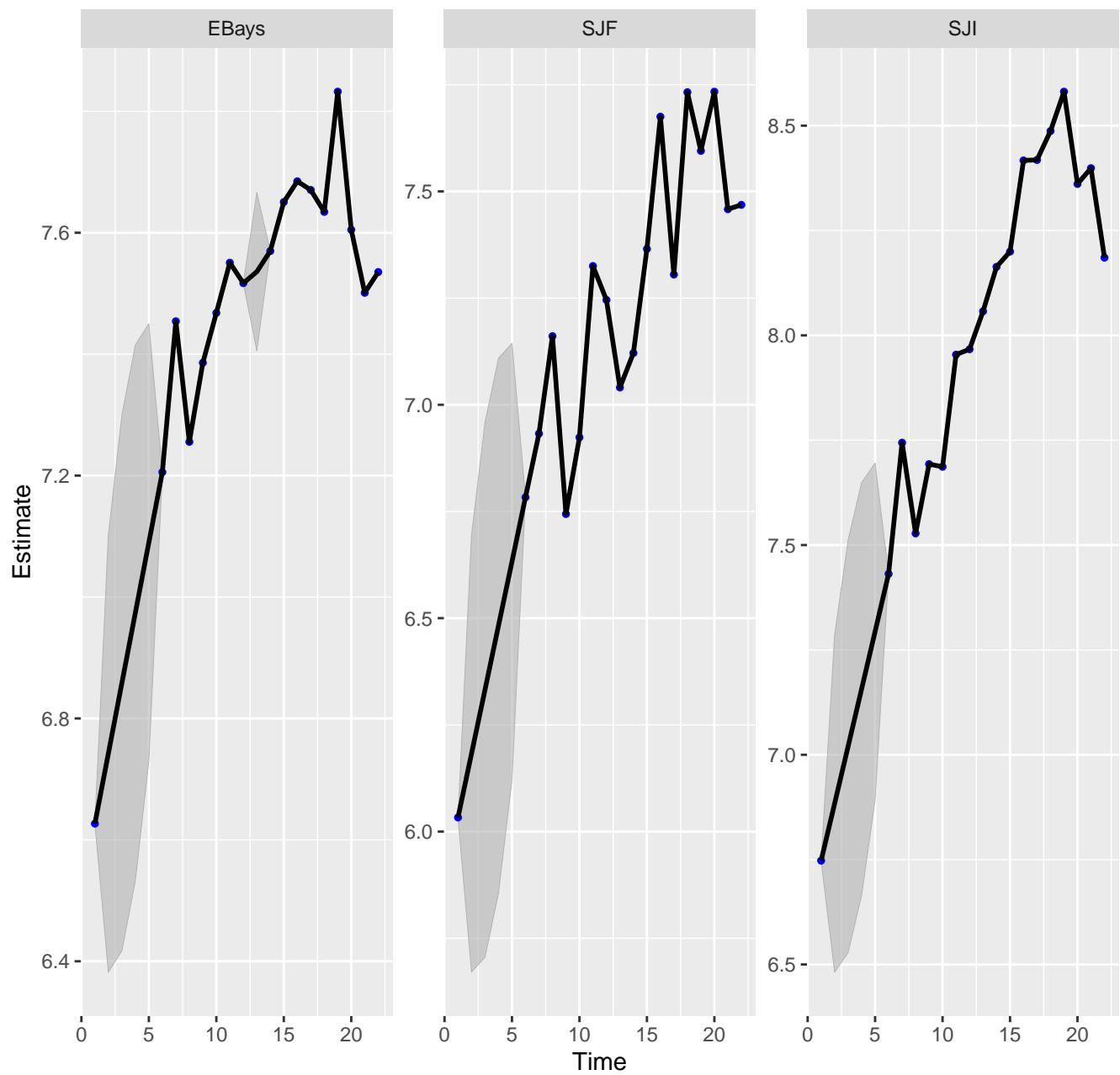
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

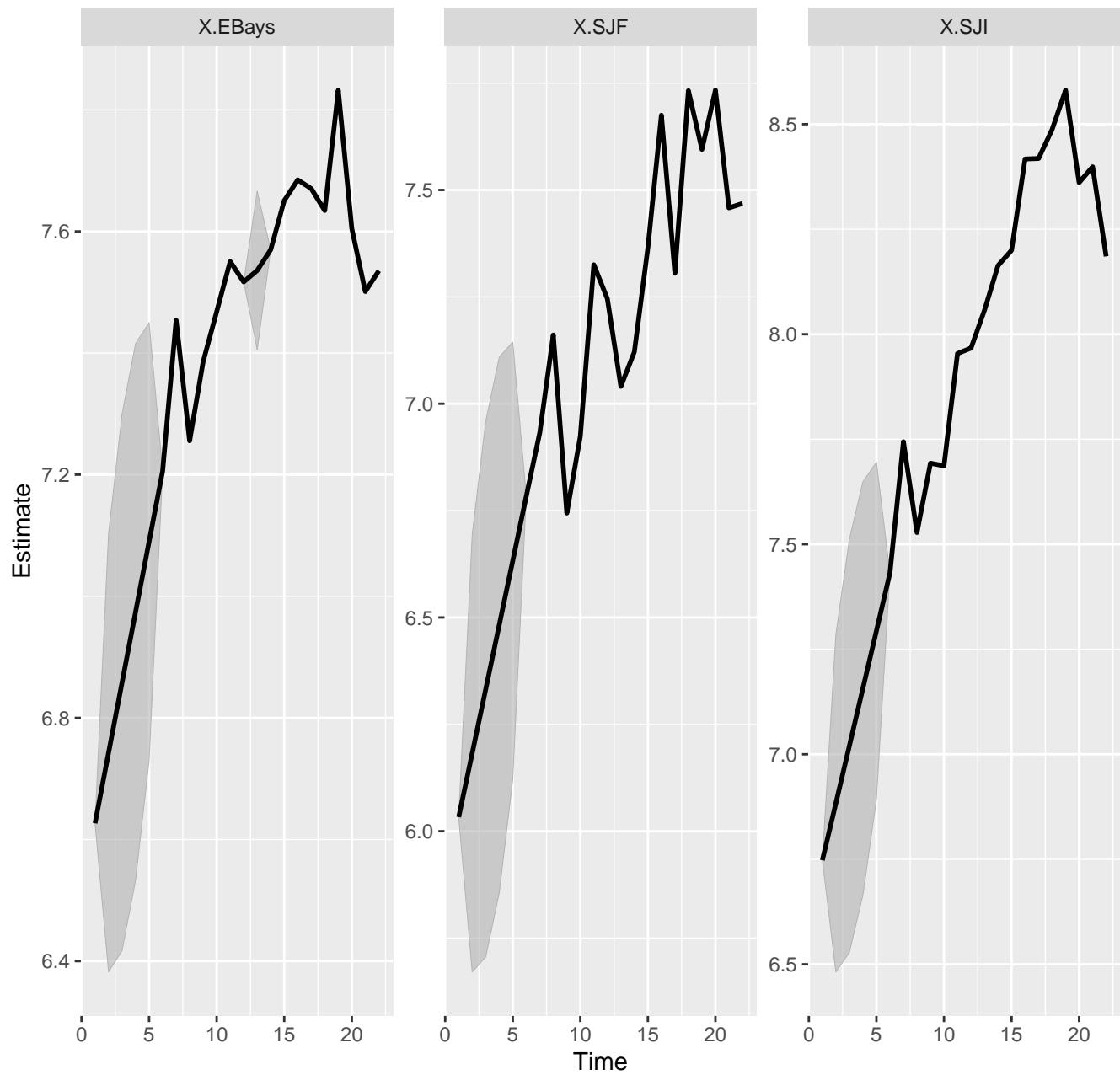
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

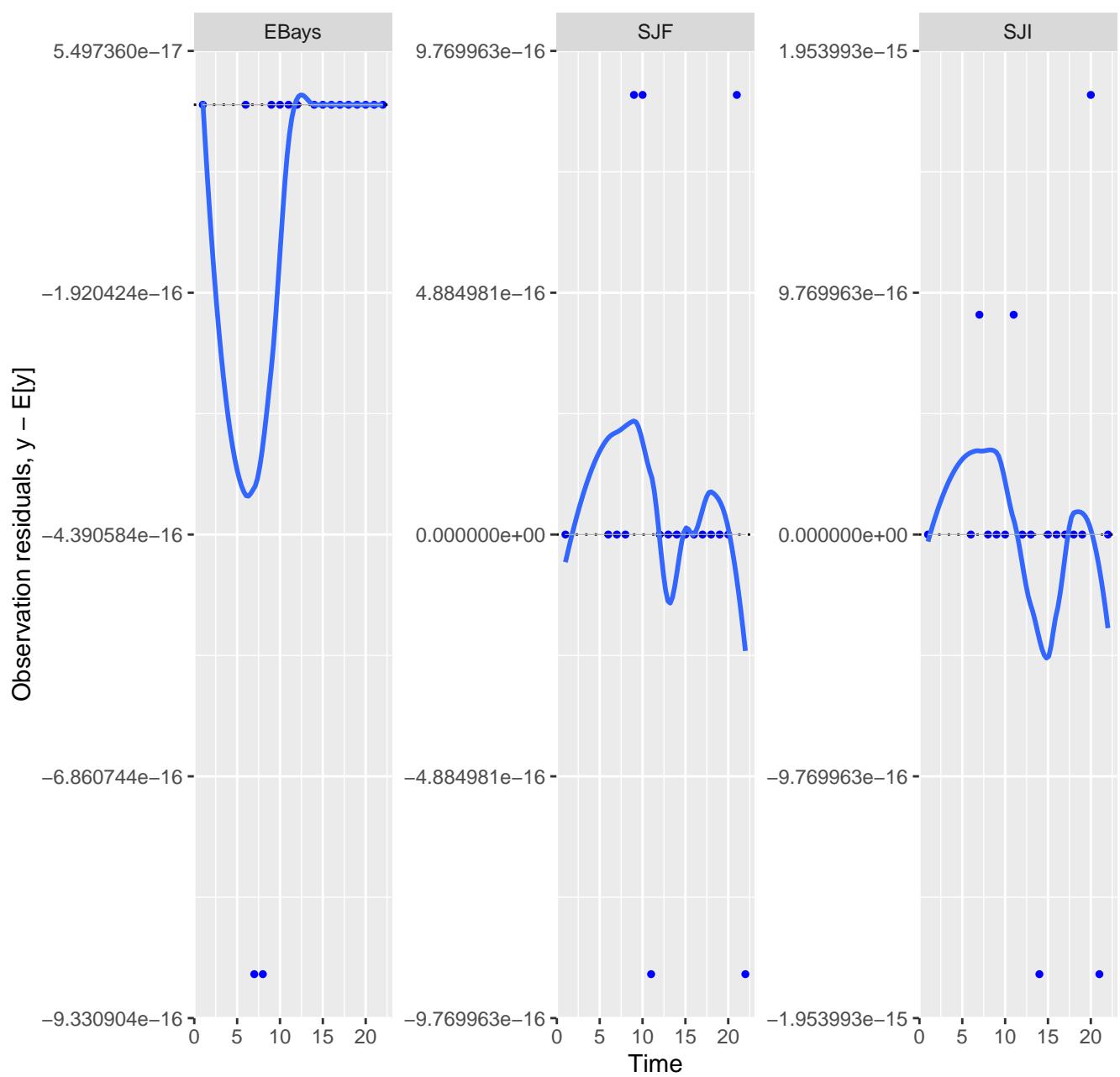
Model fitted Y + CI



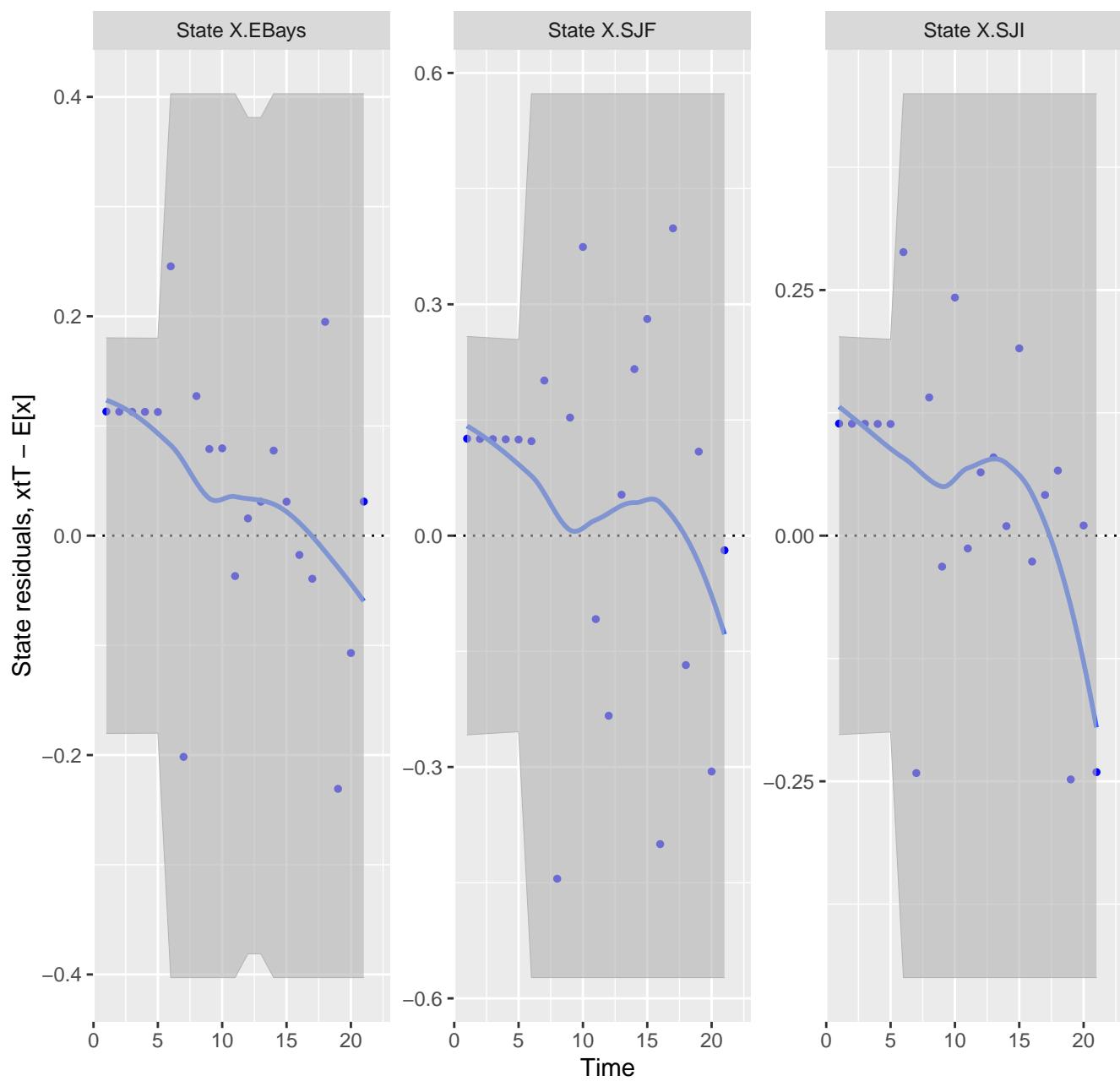
States



Model residuals

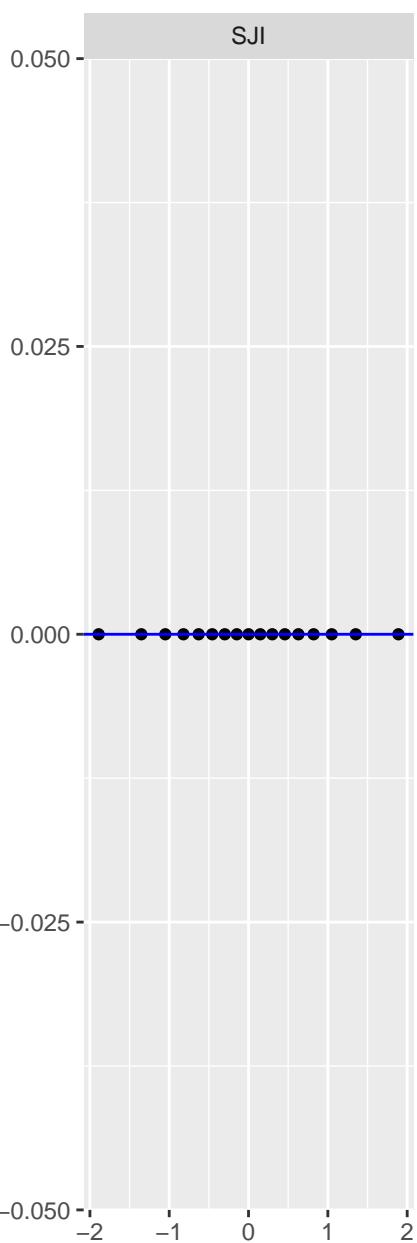
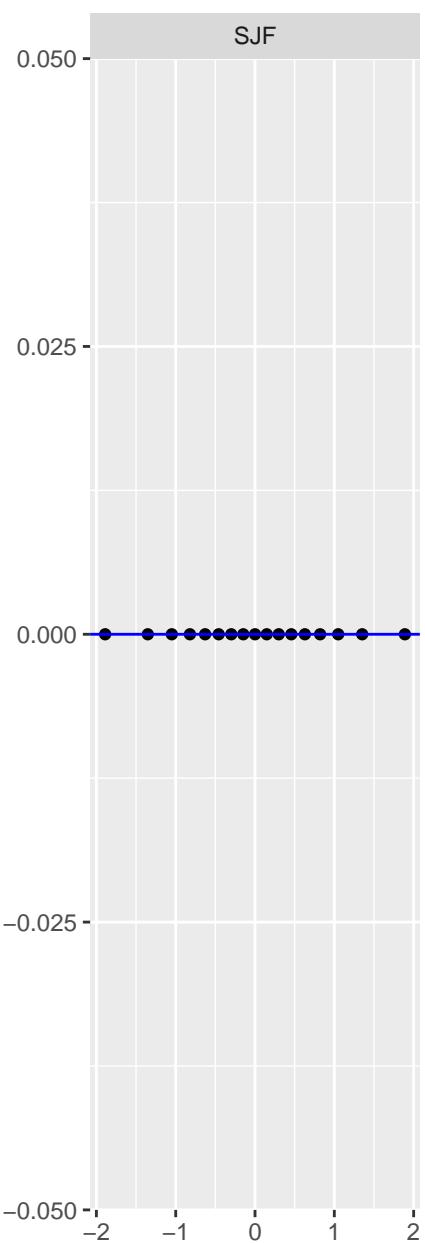
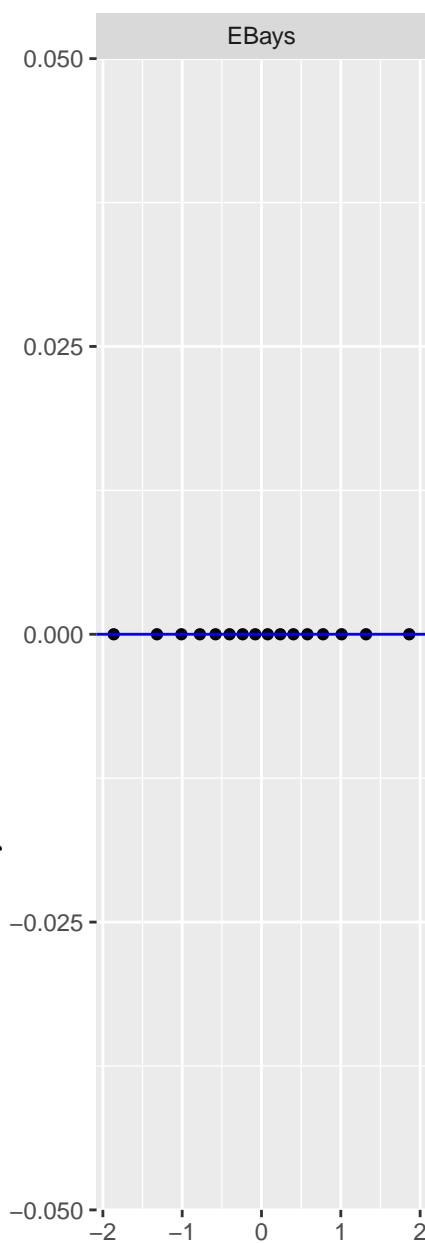


State residuals



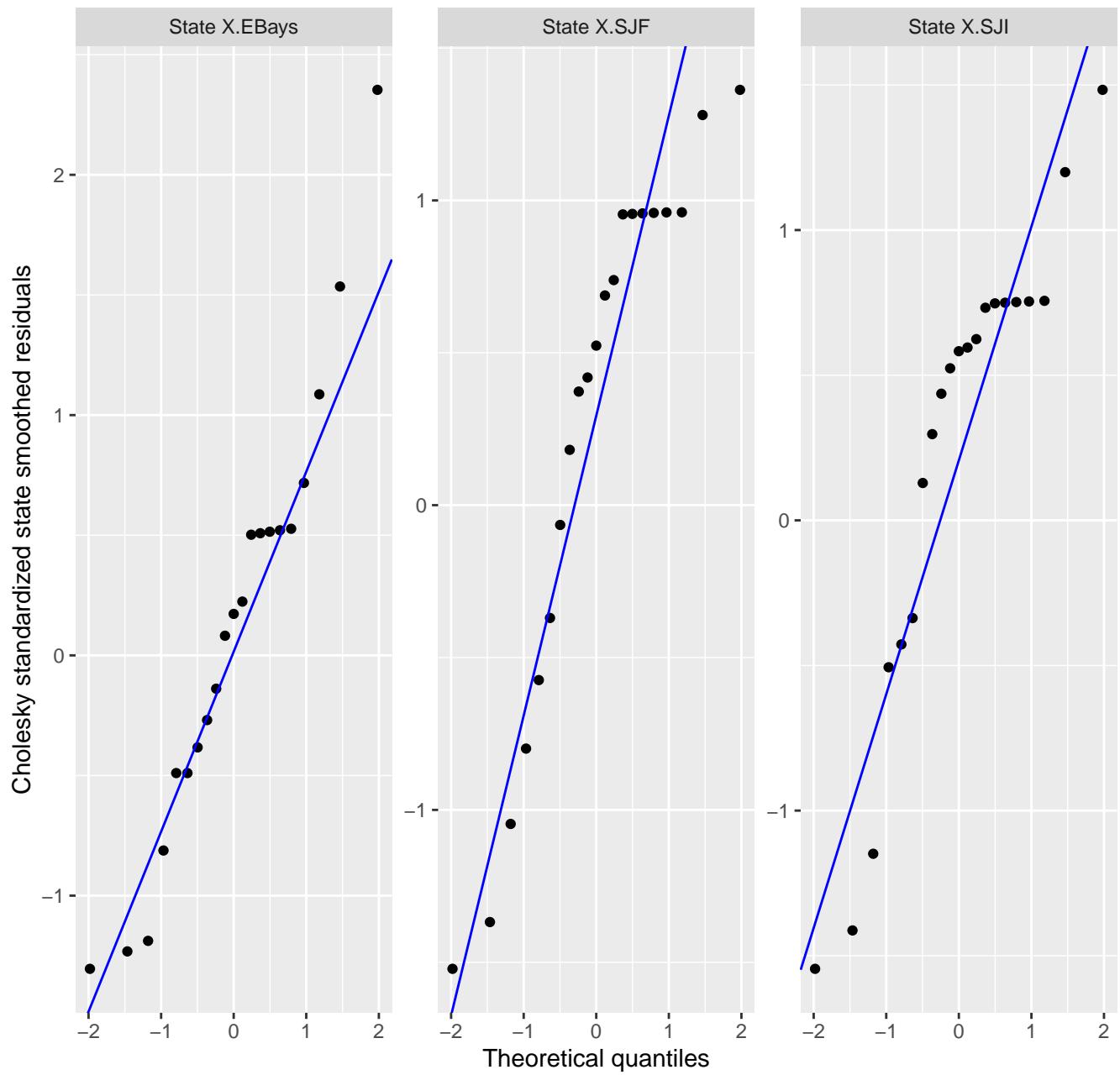
Model residuals normality test

Cholesky standardized model smoothed residuals

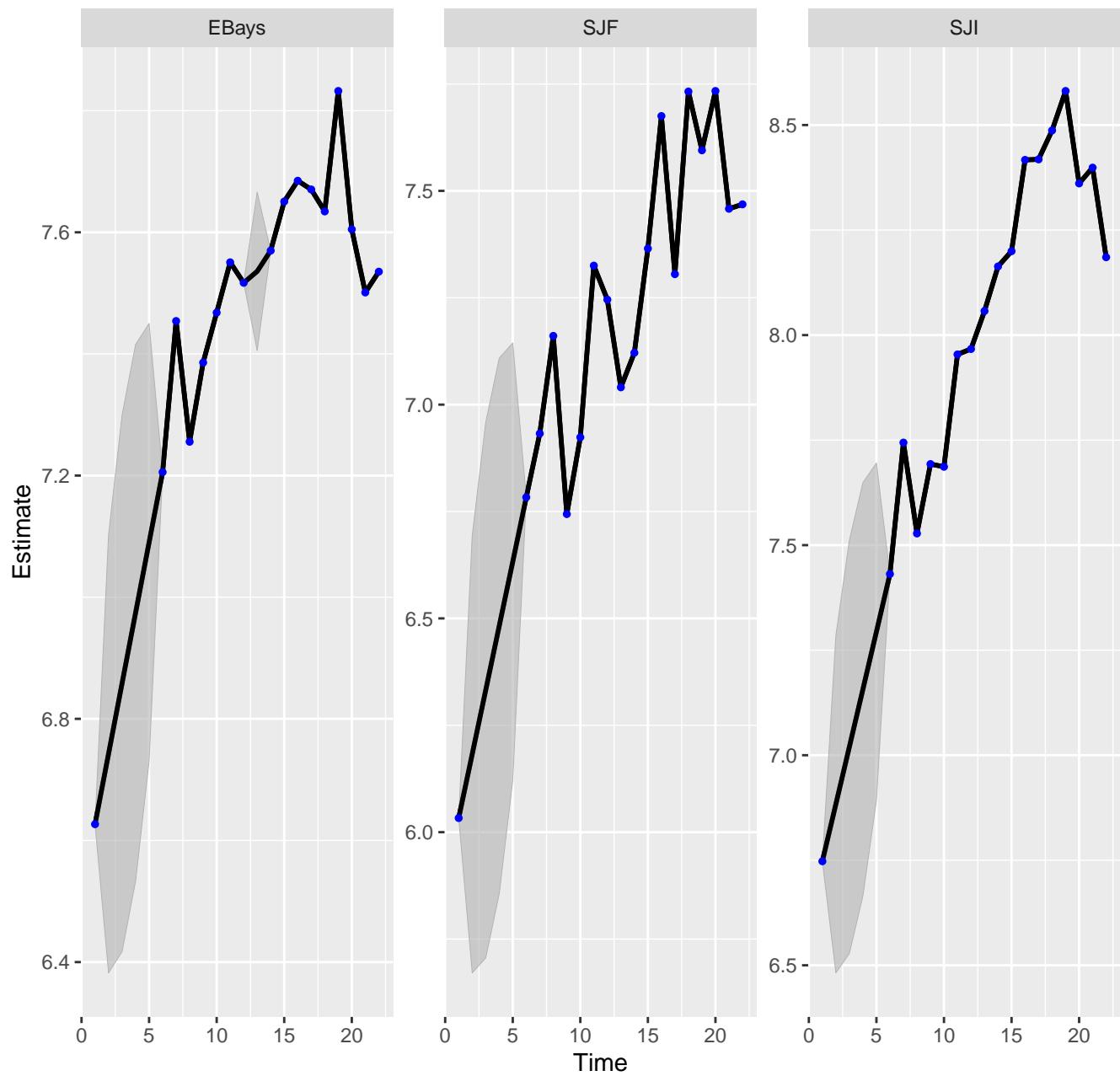


Theoretical quantiles

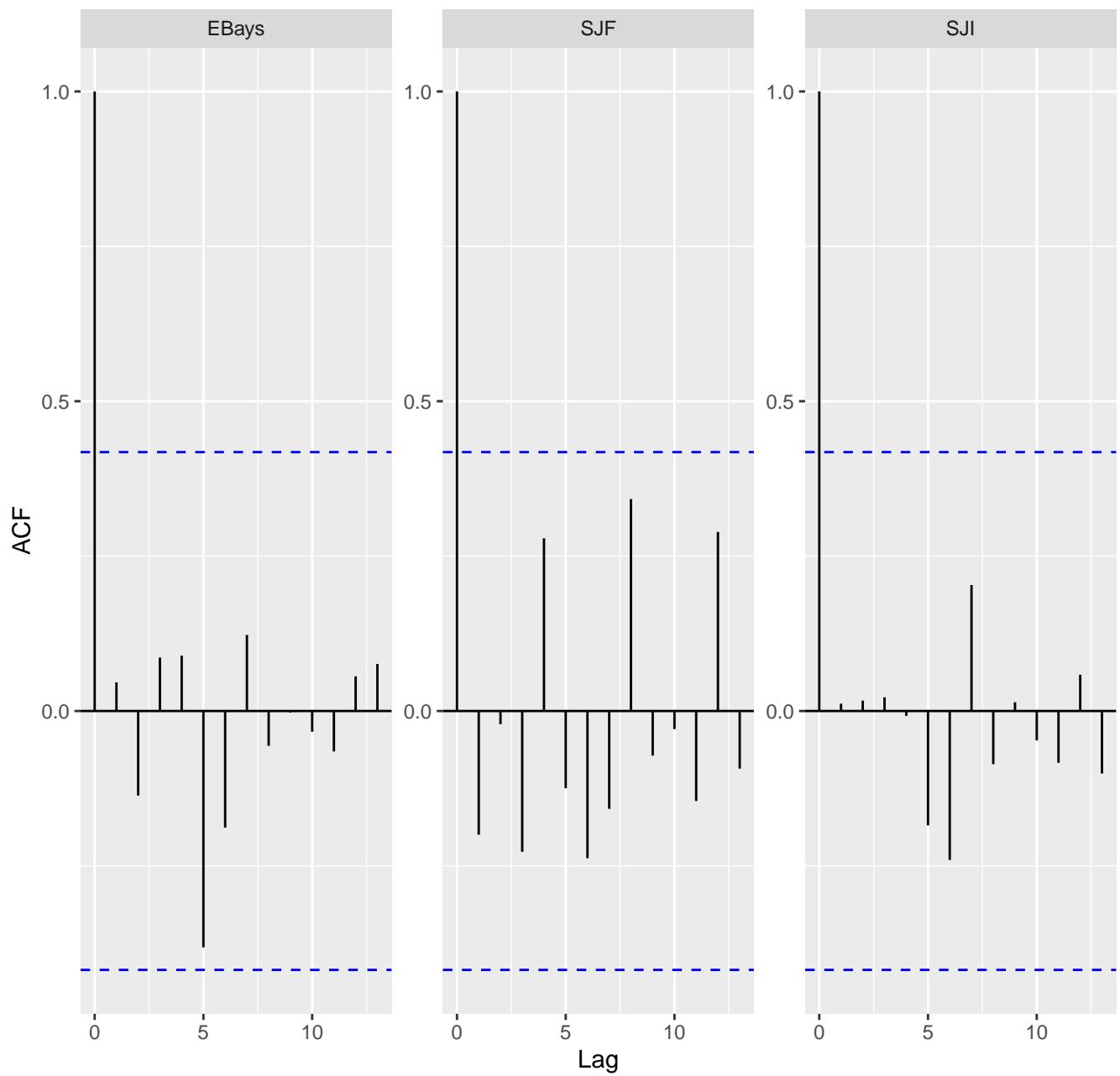
State residuals normality test

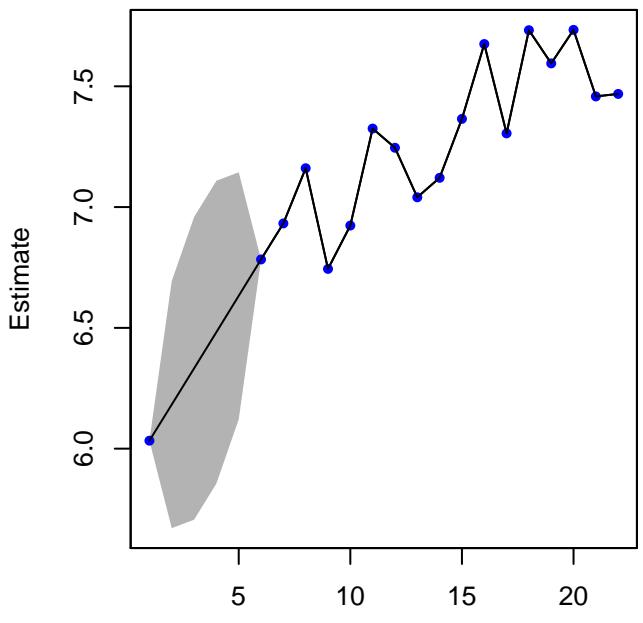
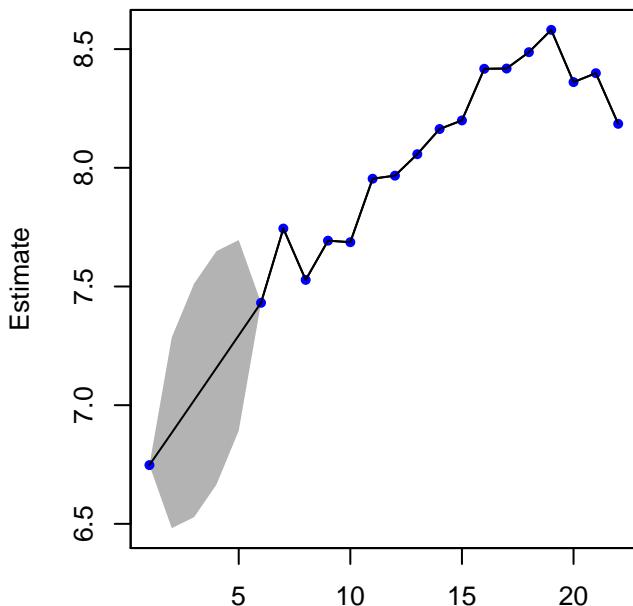
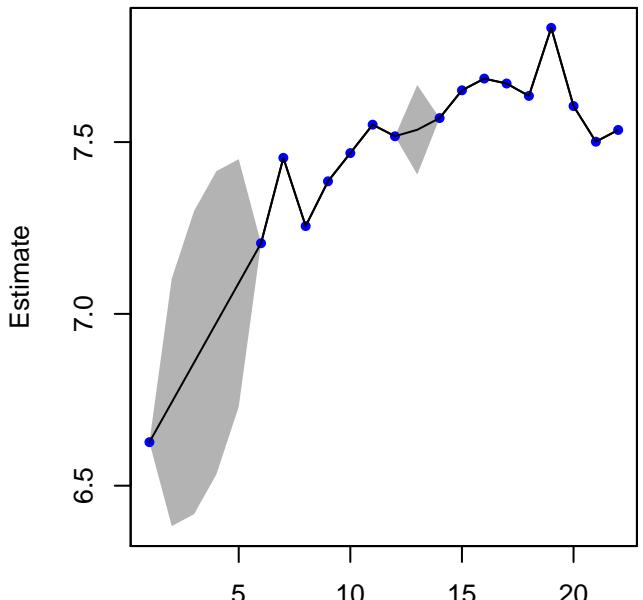


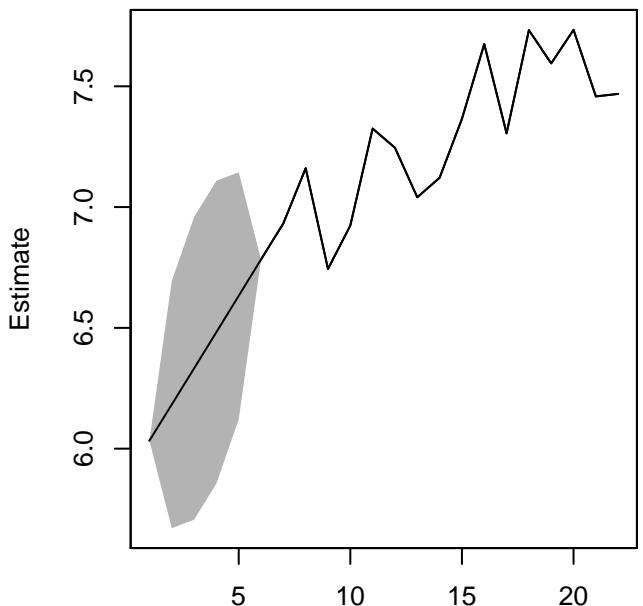
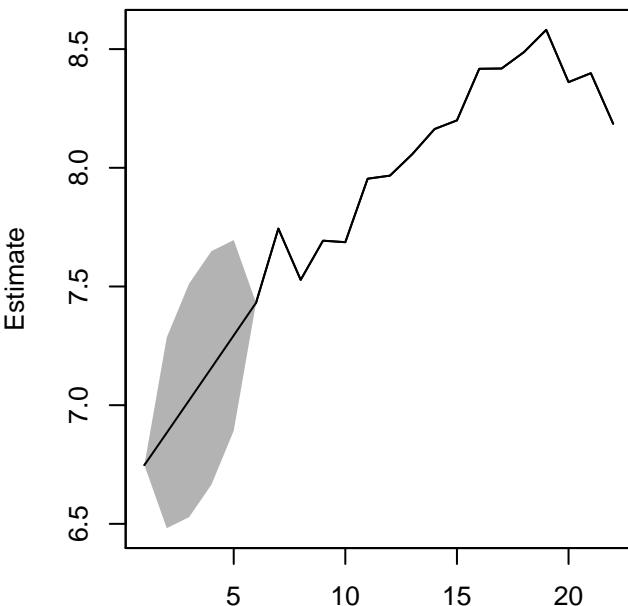
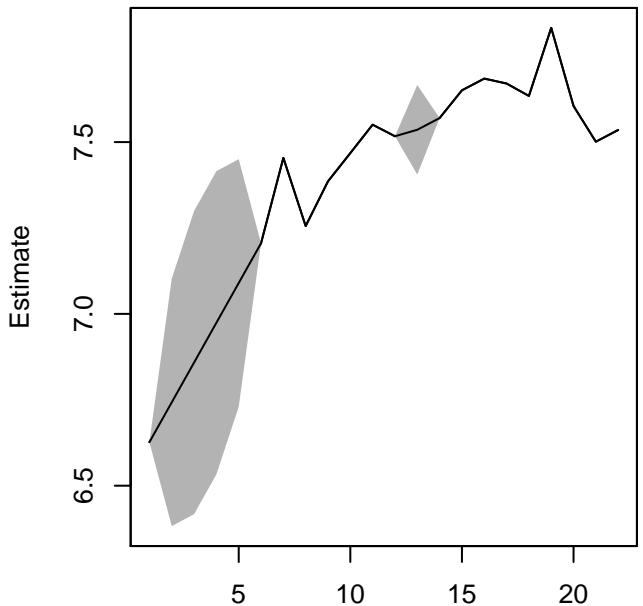
Expected value of Y conditioned on data



Model innovations residuals ACF

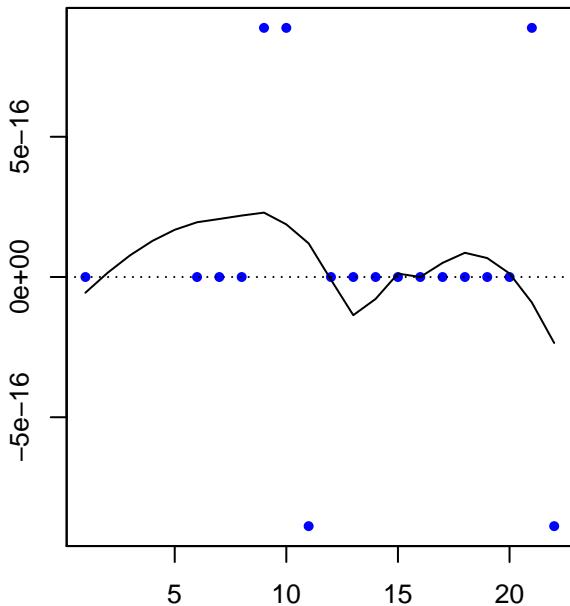


SJF + CI**SJI + CI****EBays + CI**

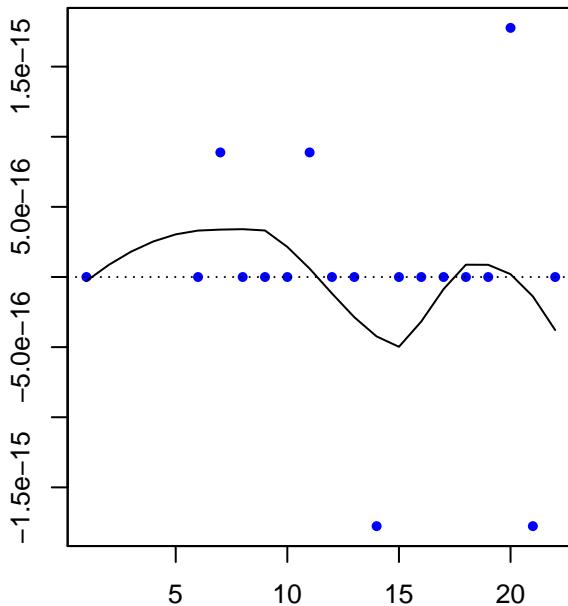
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

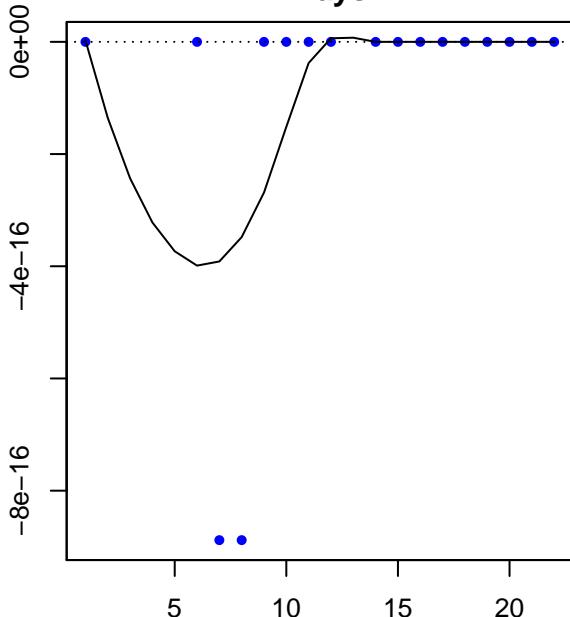
SJF



SJI

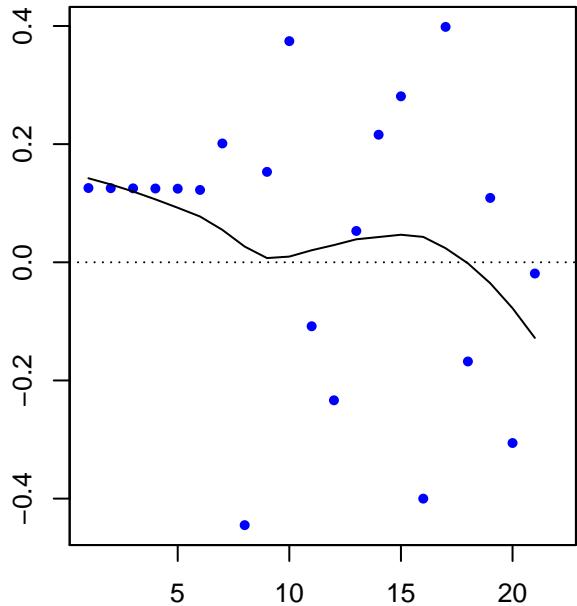


EBays

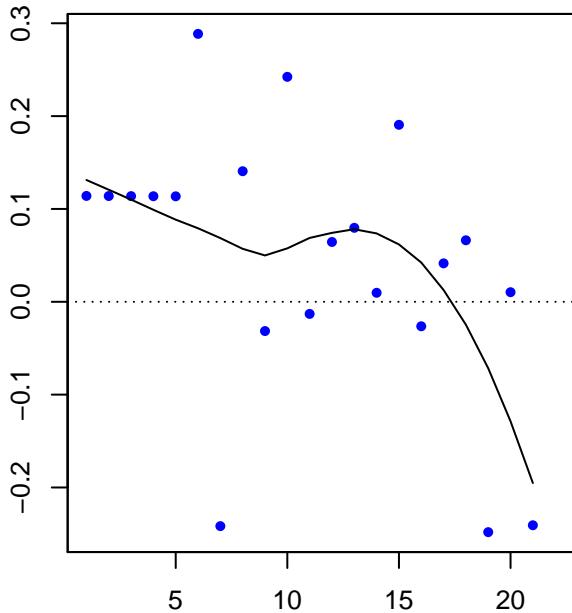


State residuals, $x_{tT} - E[x]$

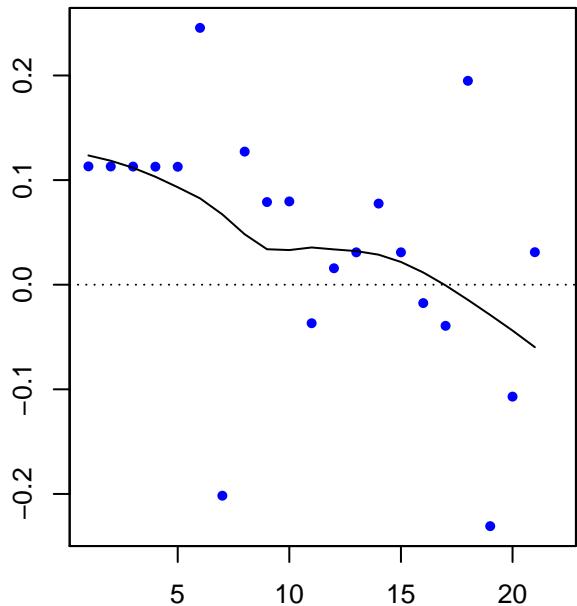
State X.SJF

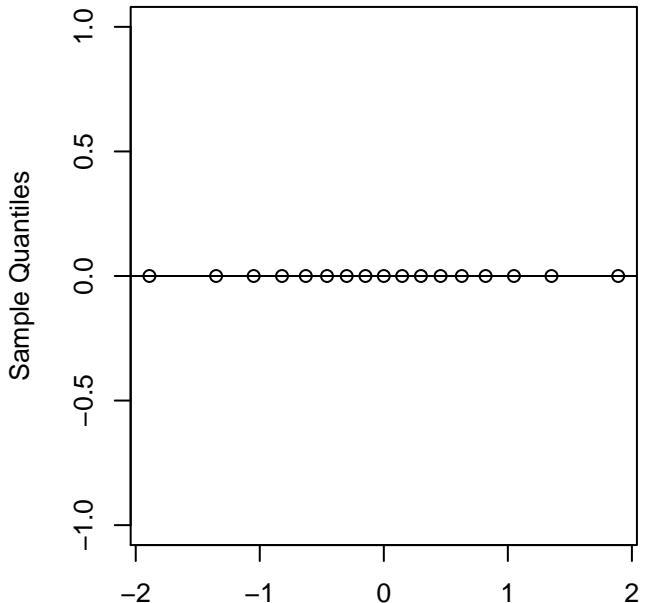
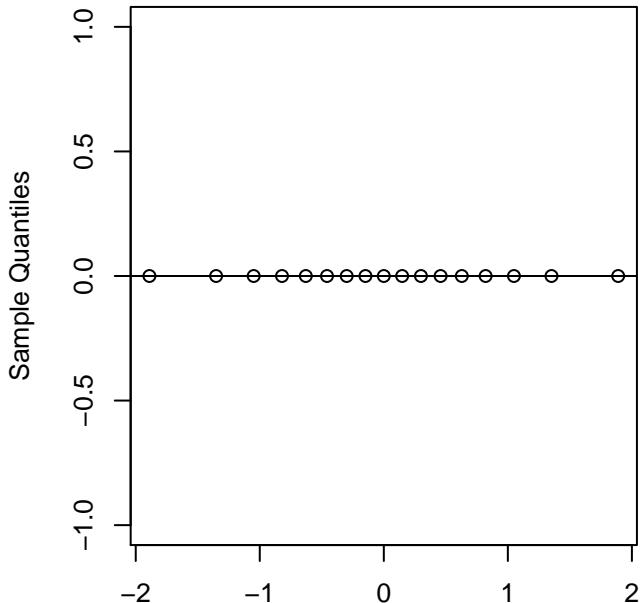
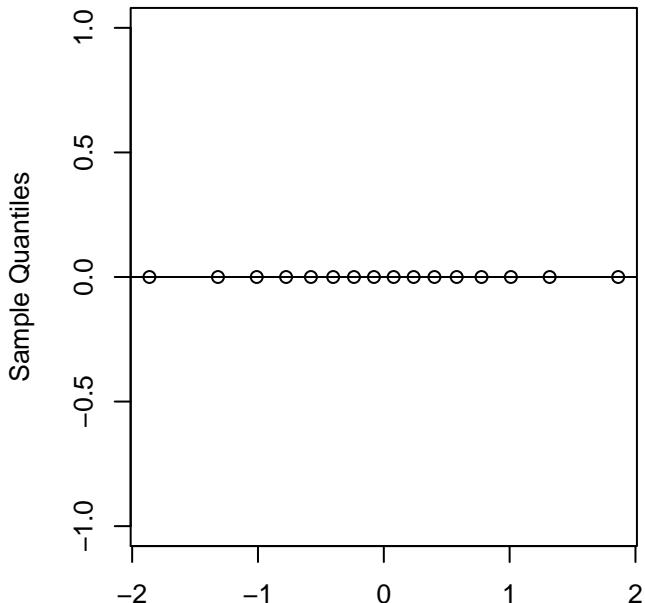


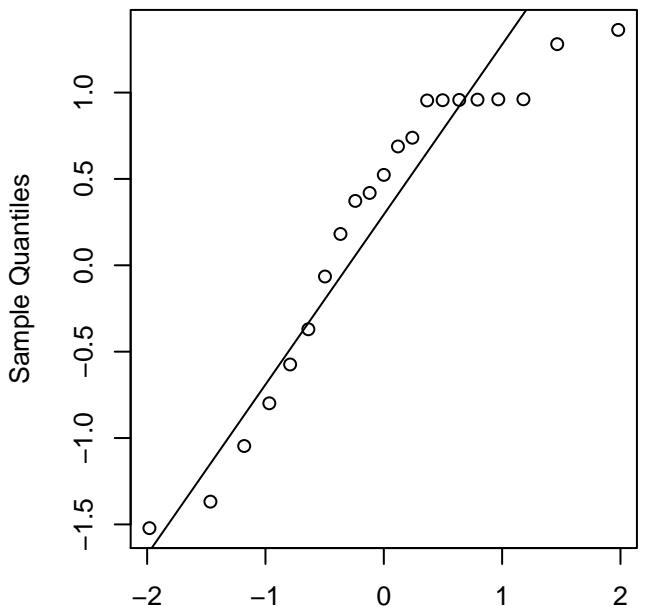
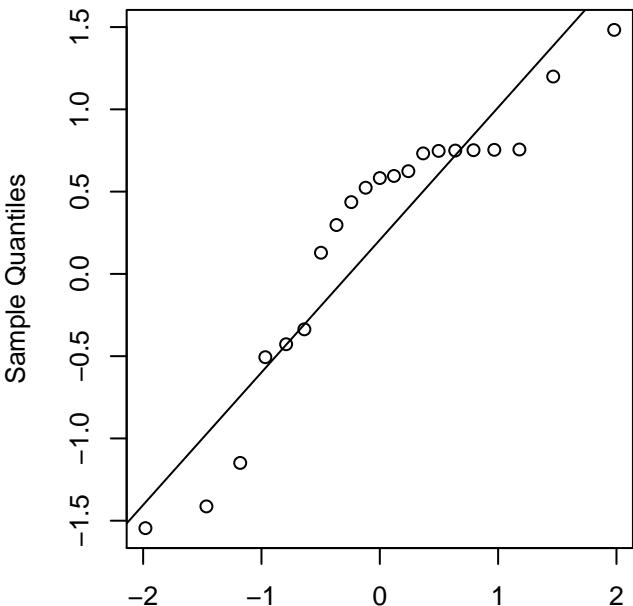
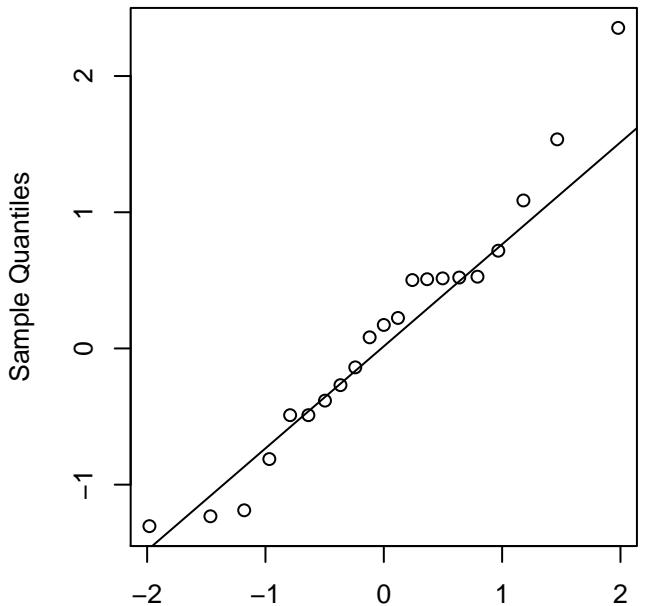
State X.SJI

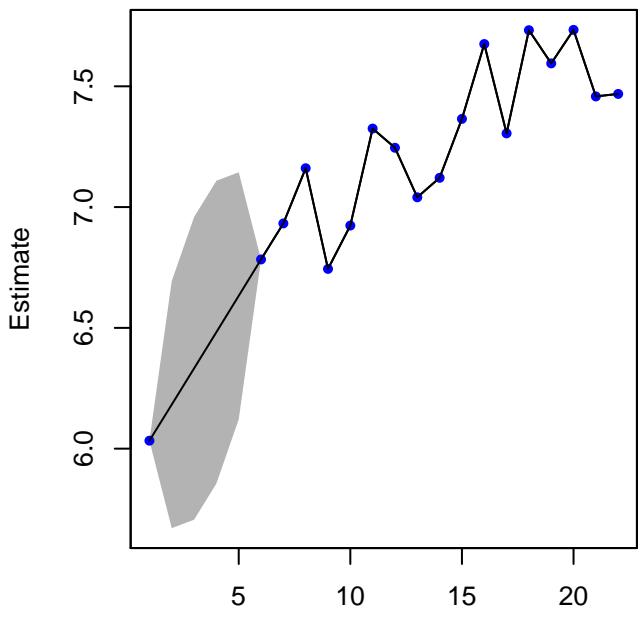
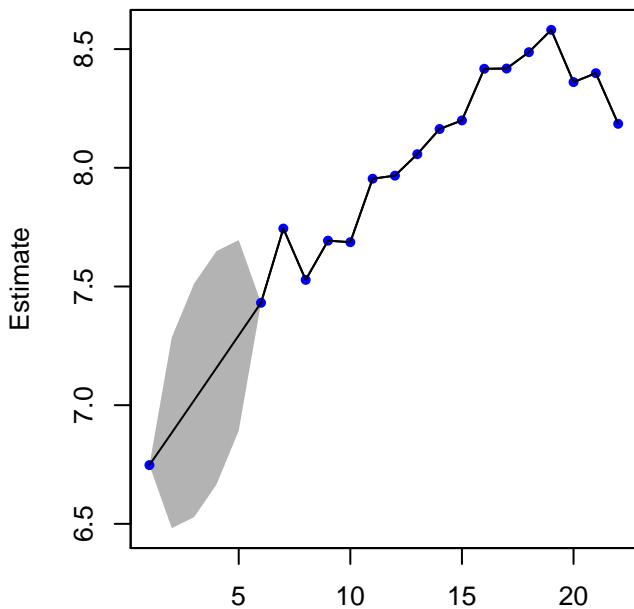
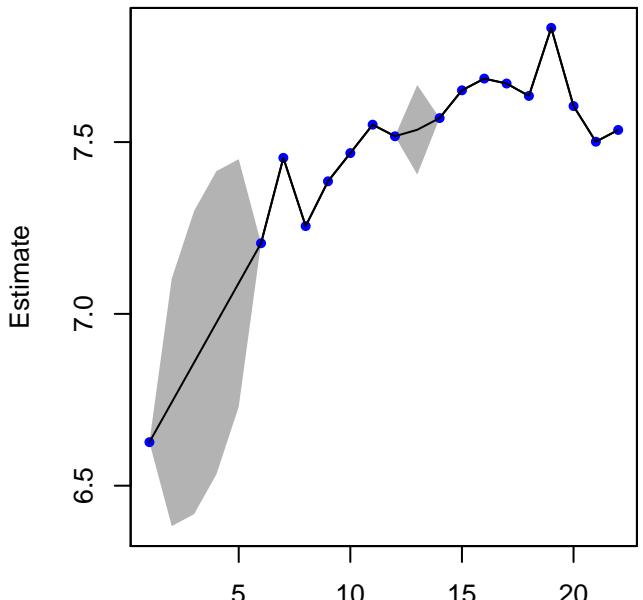


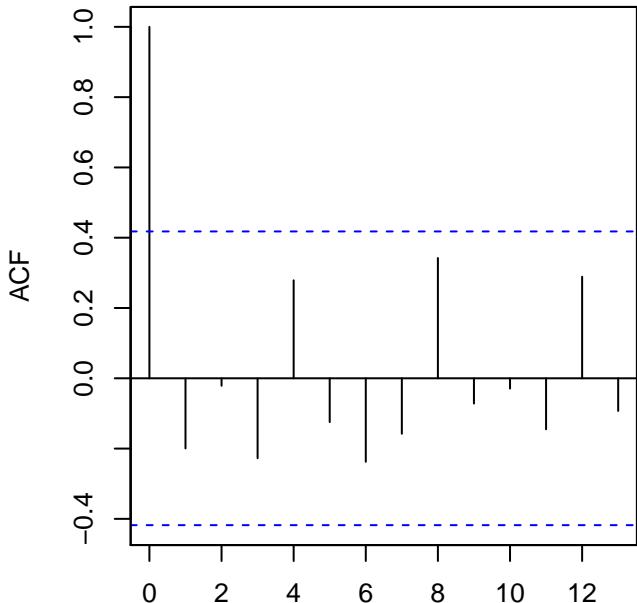
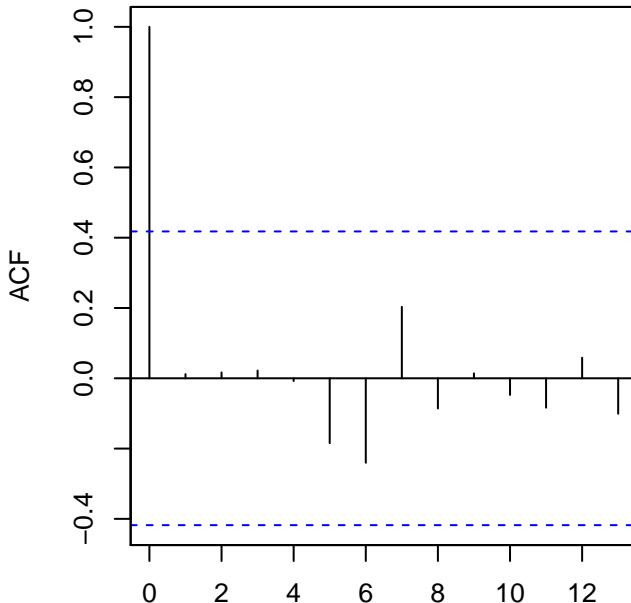
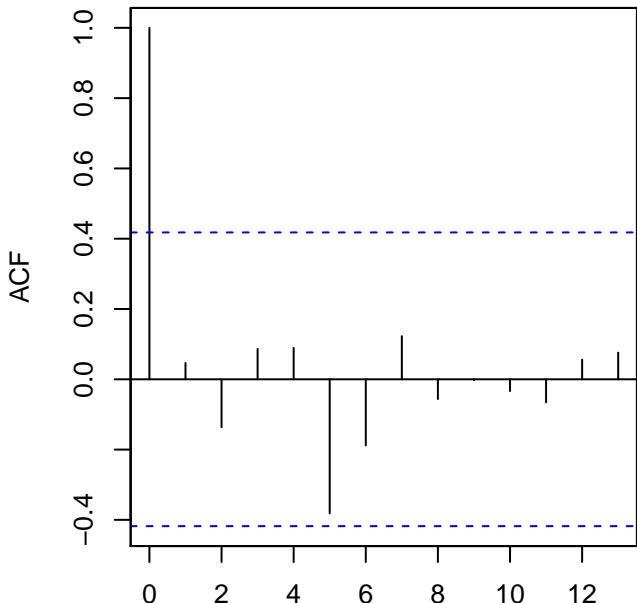
State X.EBays



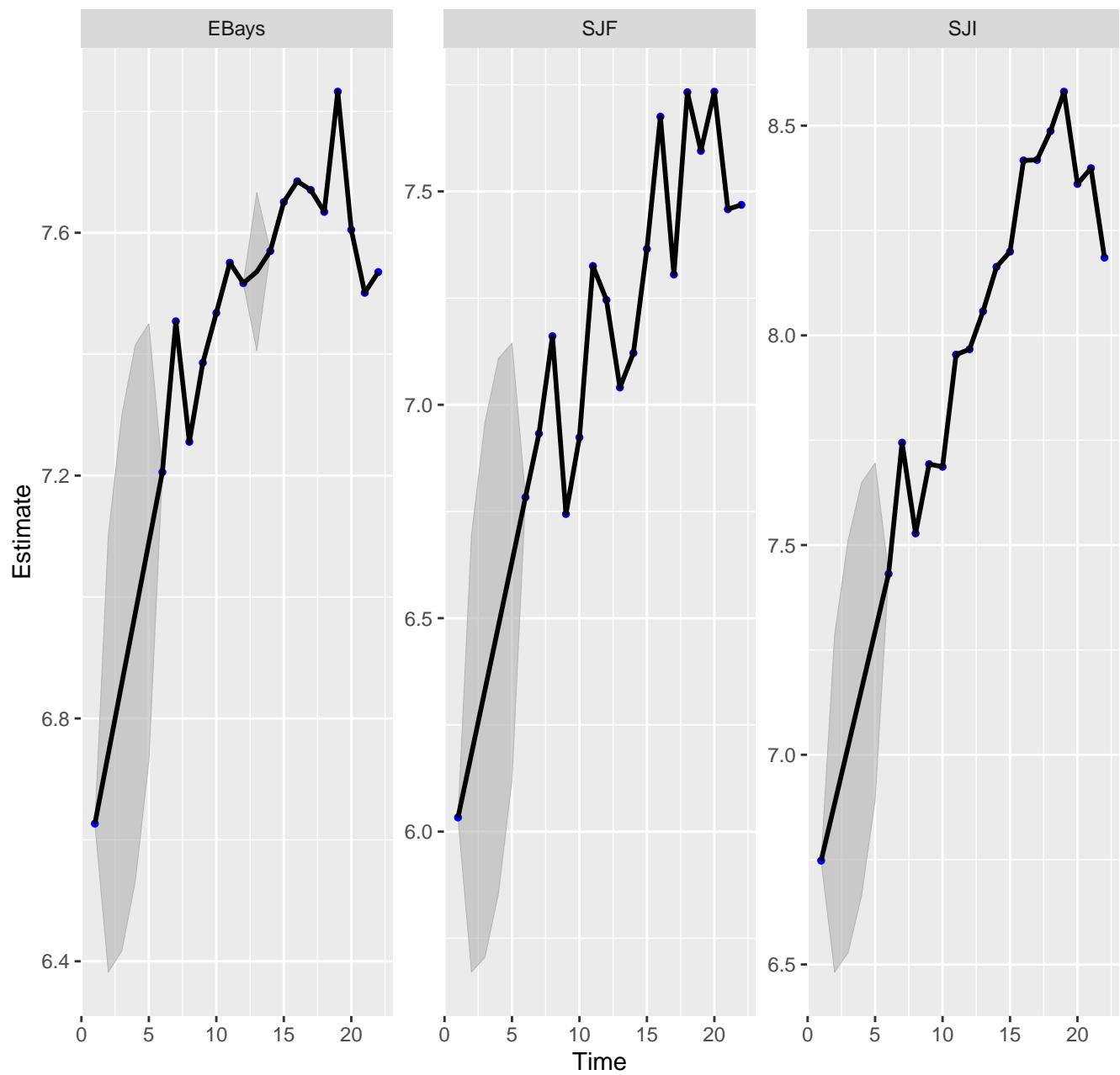
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

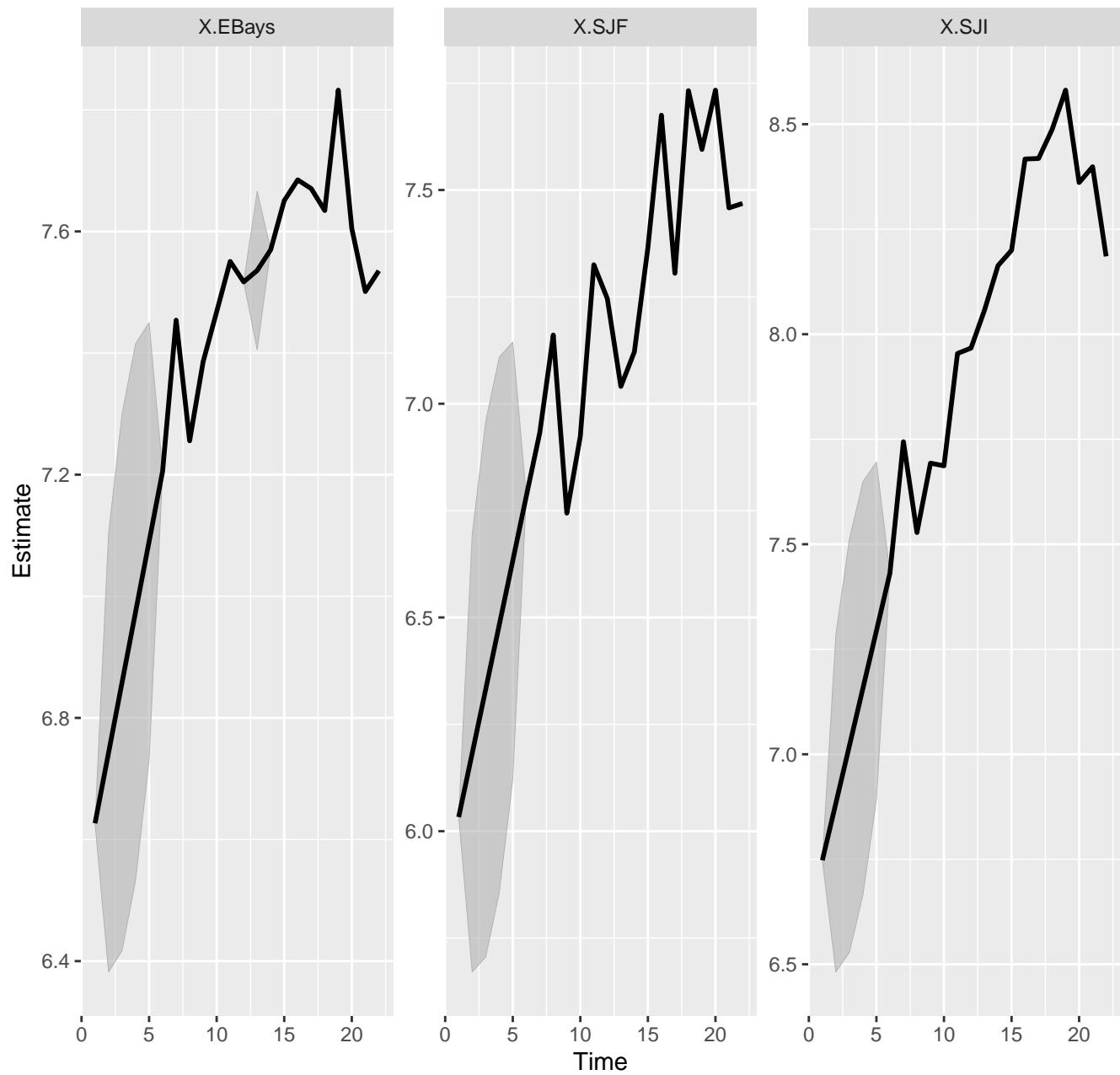
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

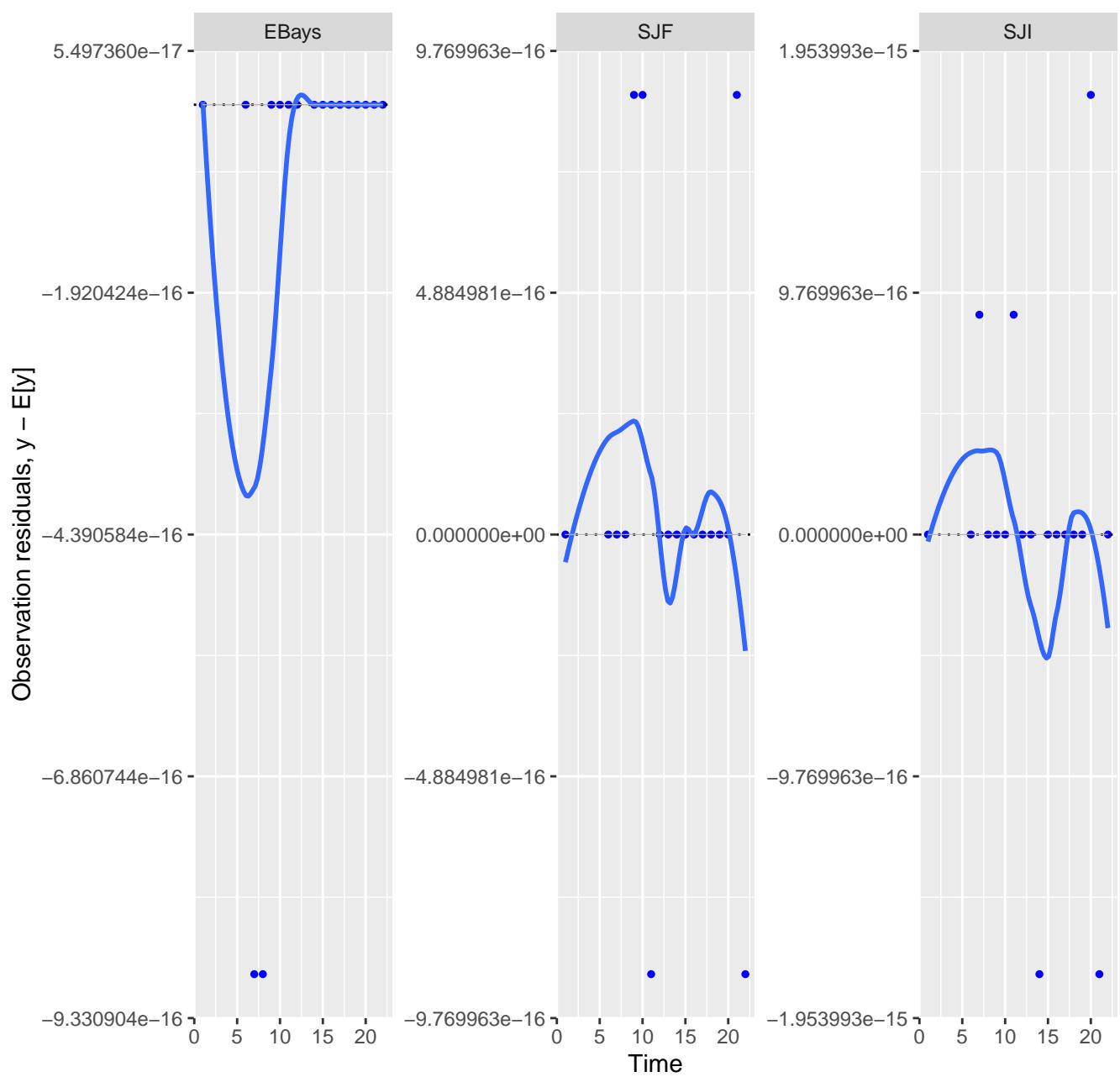
Model fitted Y + CI



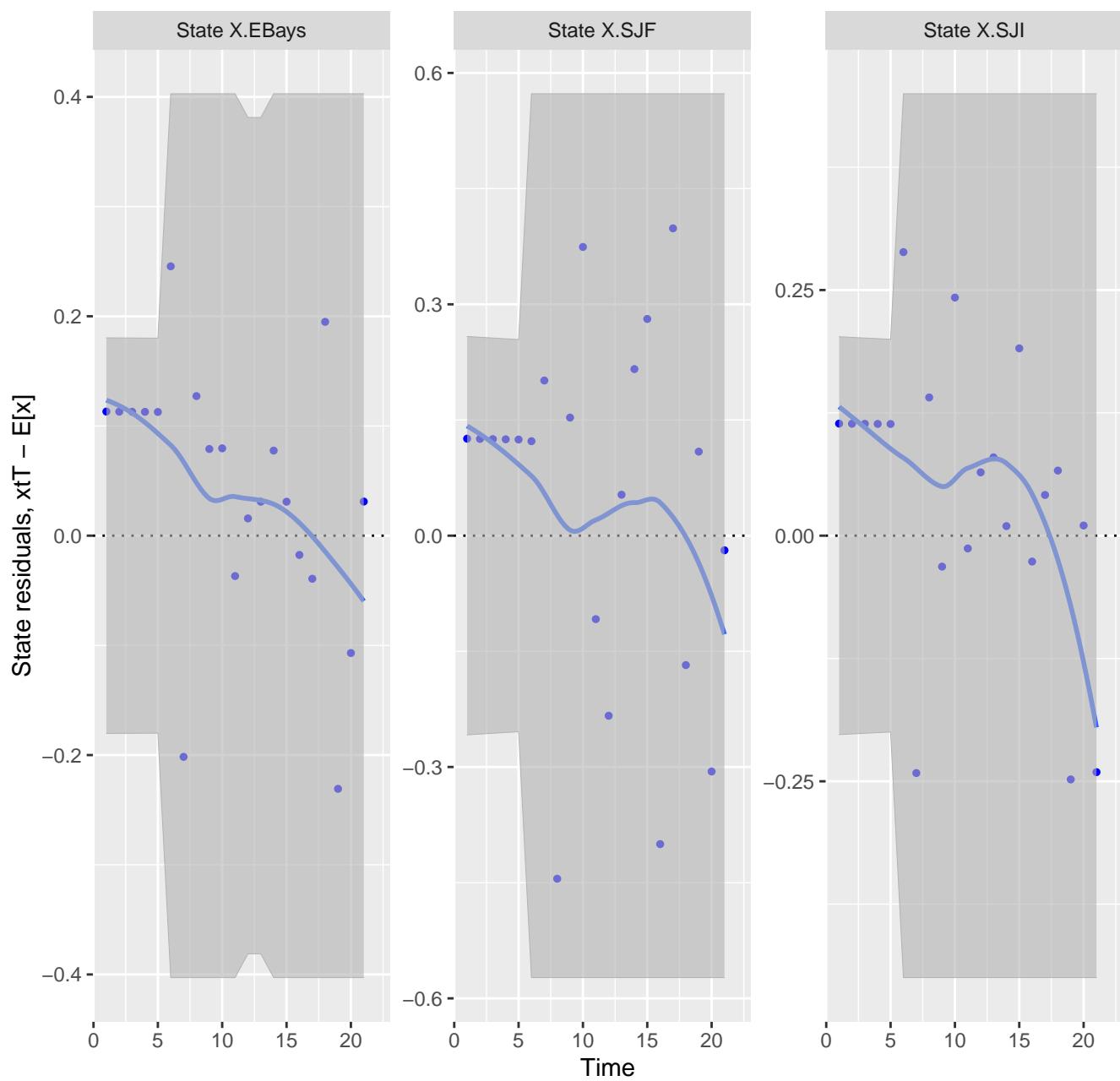
States



Model residuals

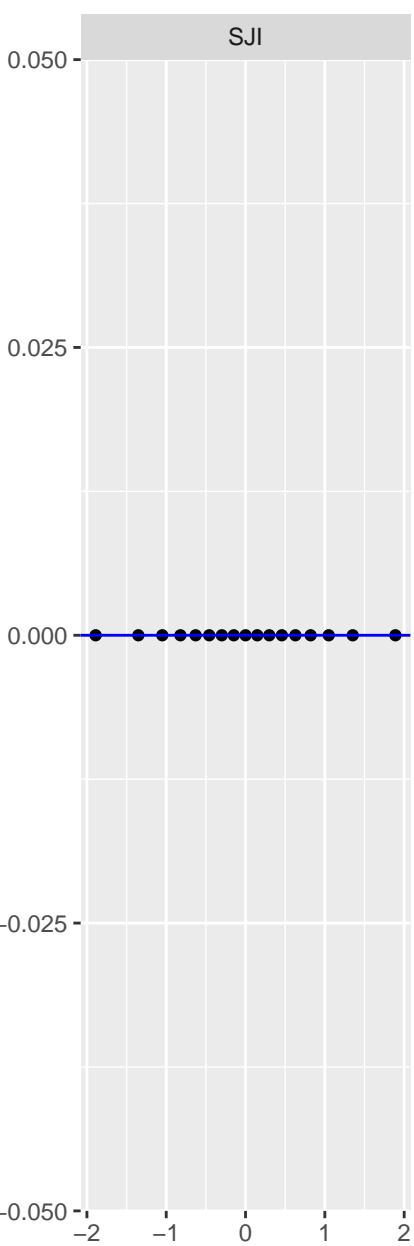
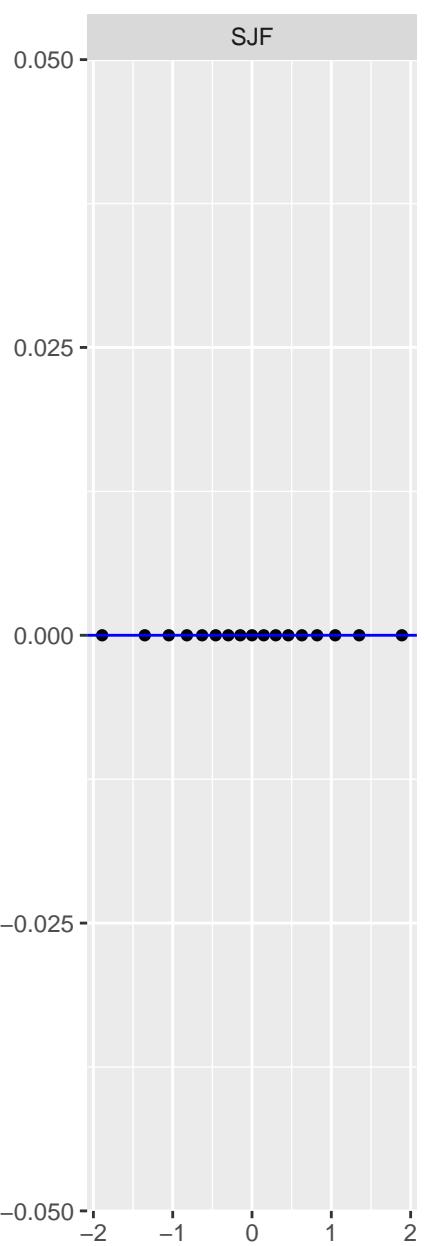
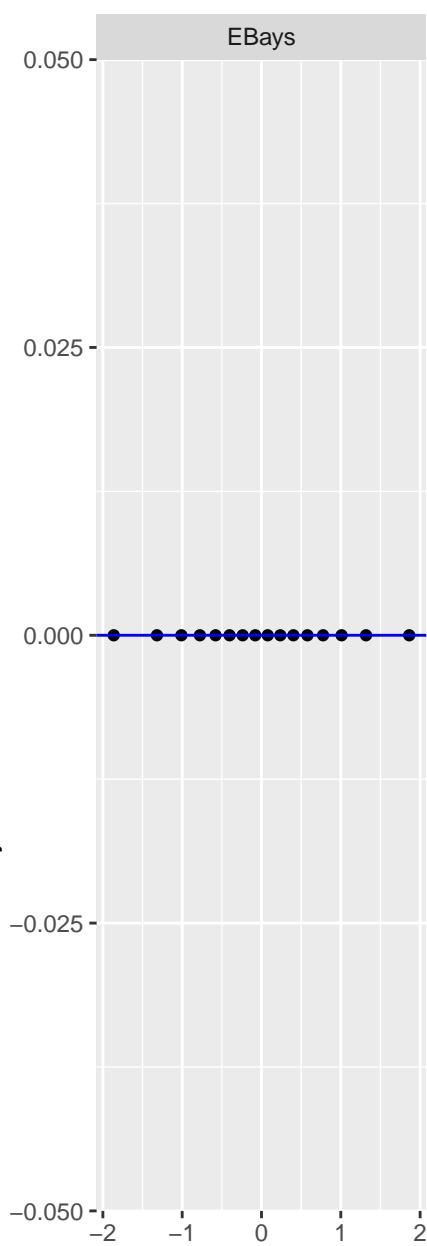


State residuals



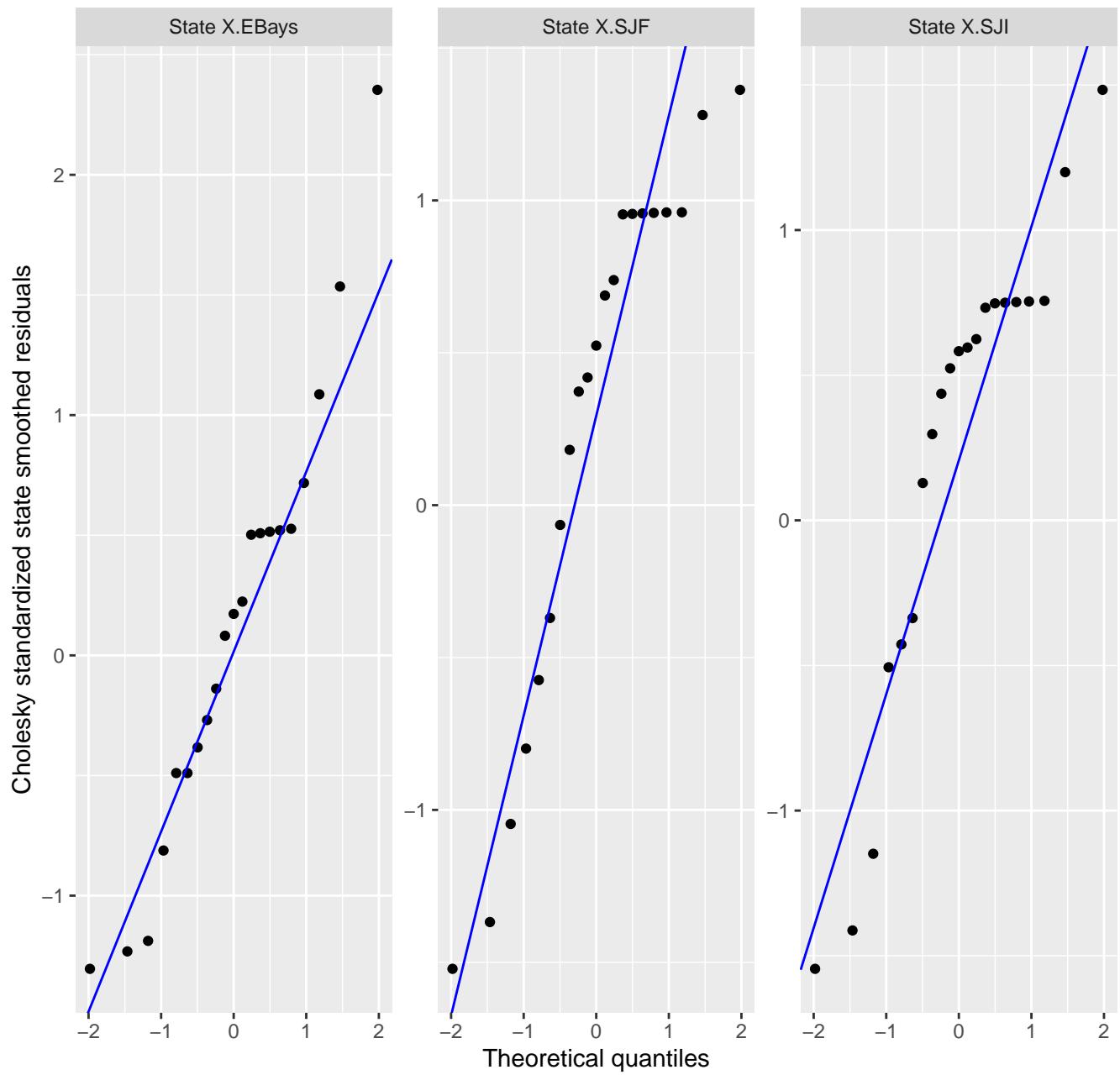
Model residuals normality test

Cholesky standardized model smoothed residuals

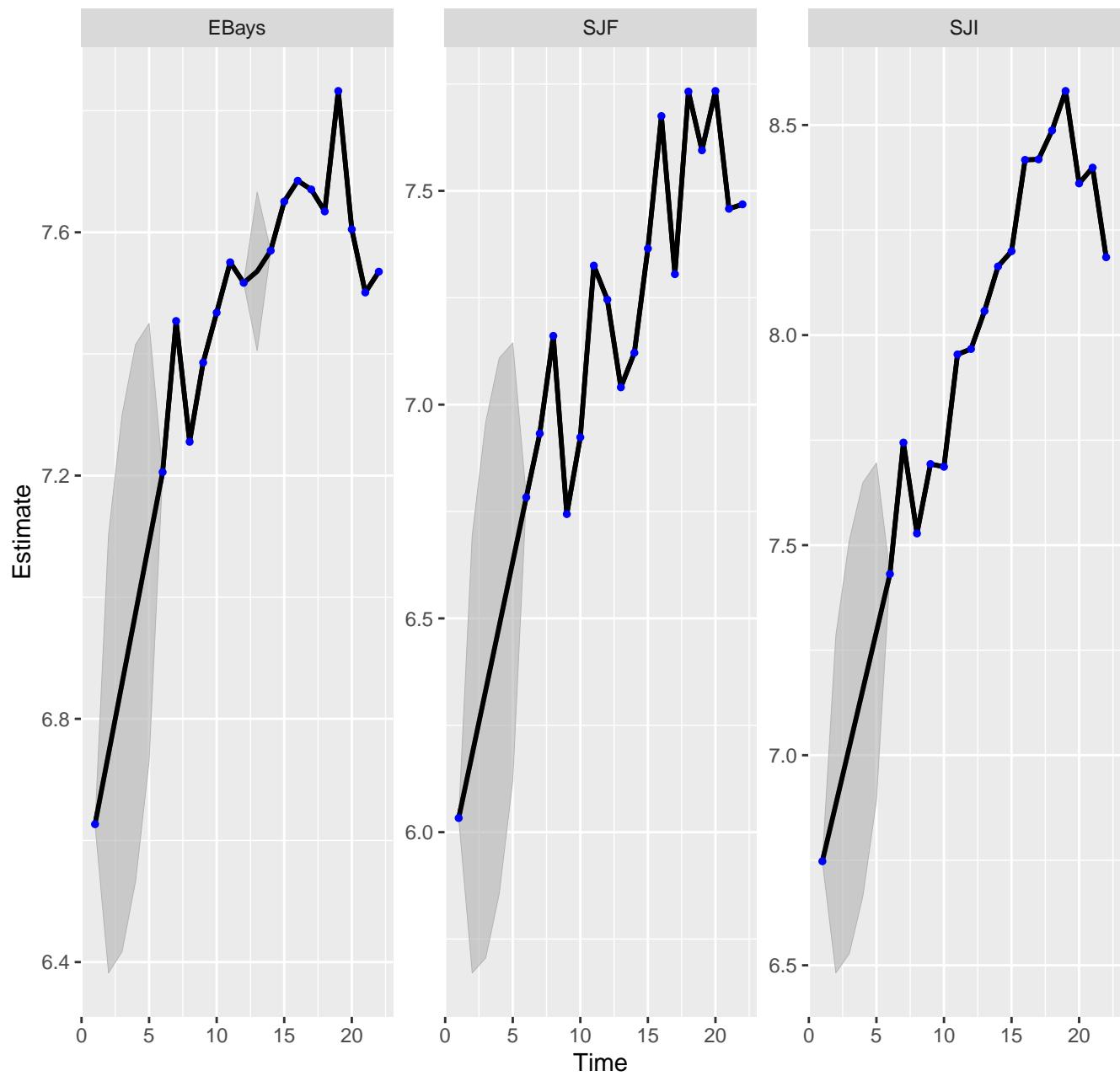


Theoretical quantiles

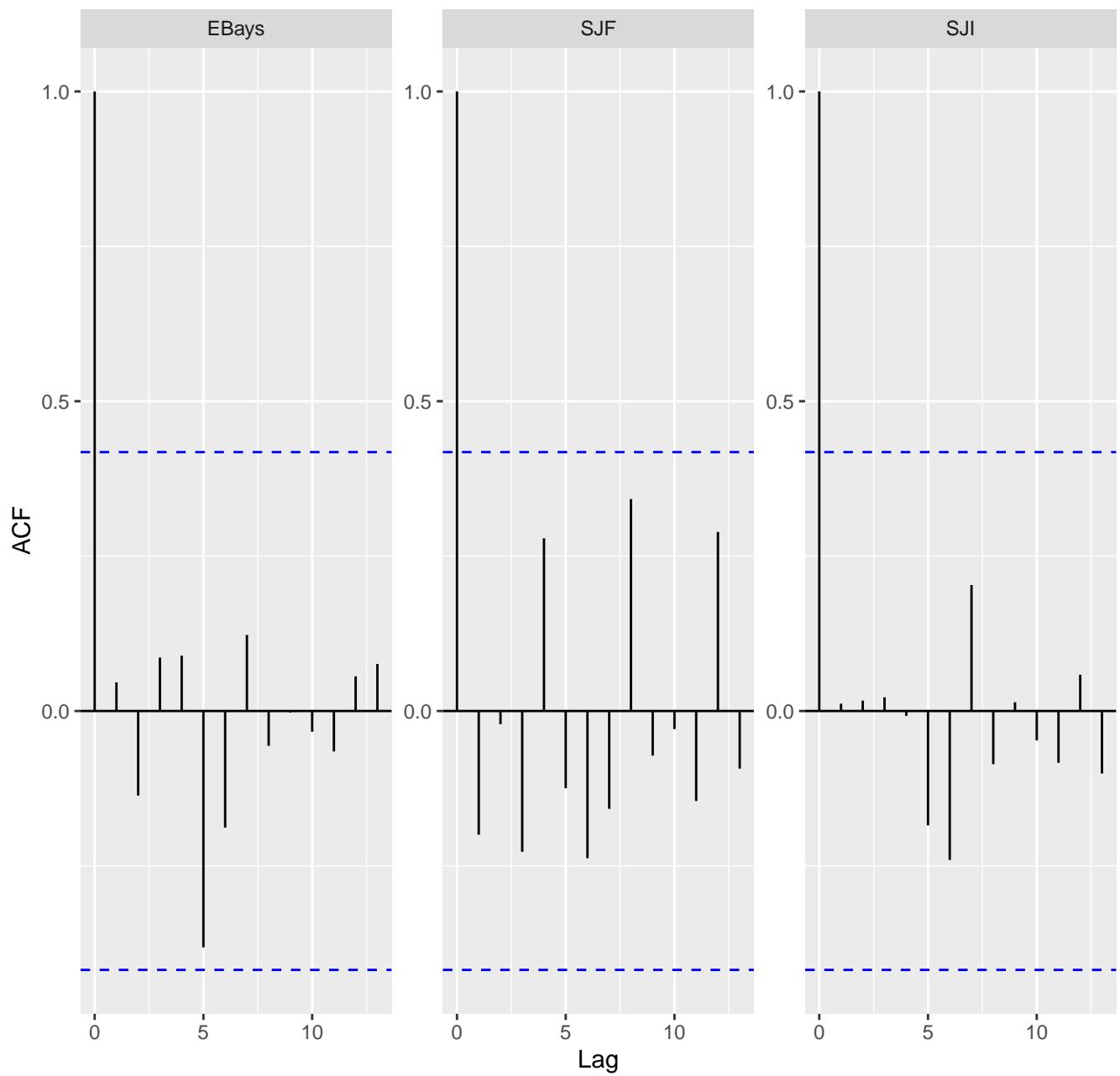
State residuals normality test

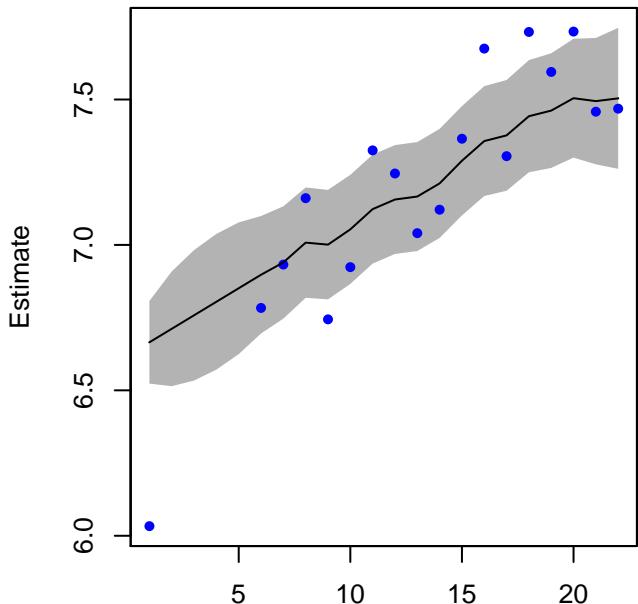
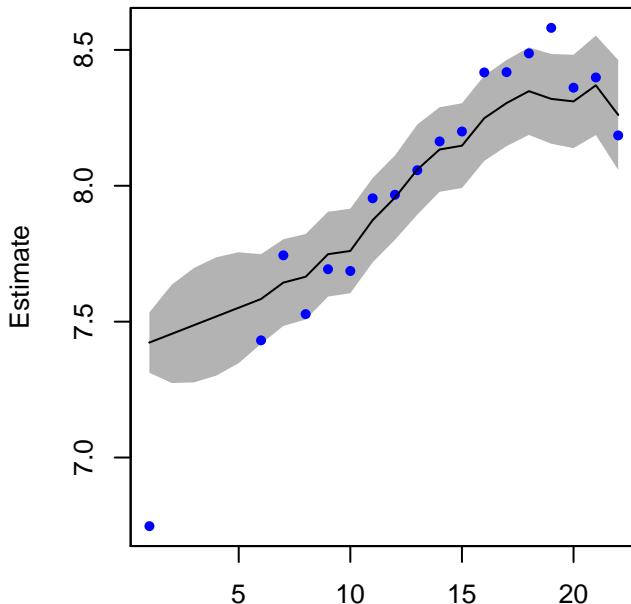
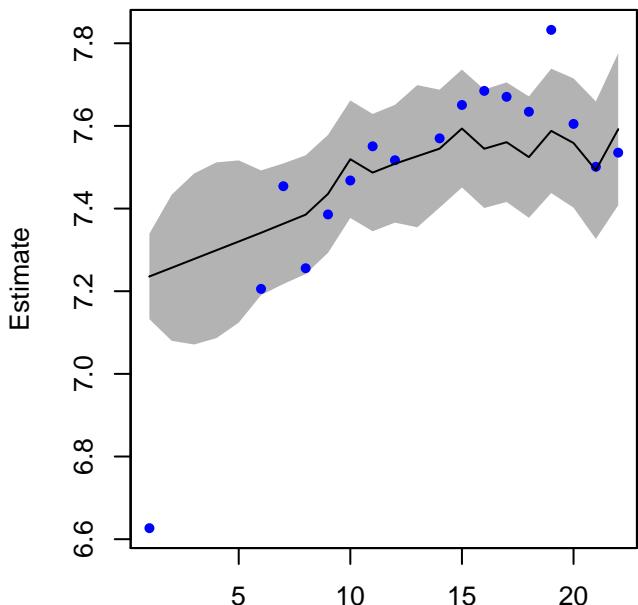


Expected value of Y conditioned on data

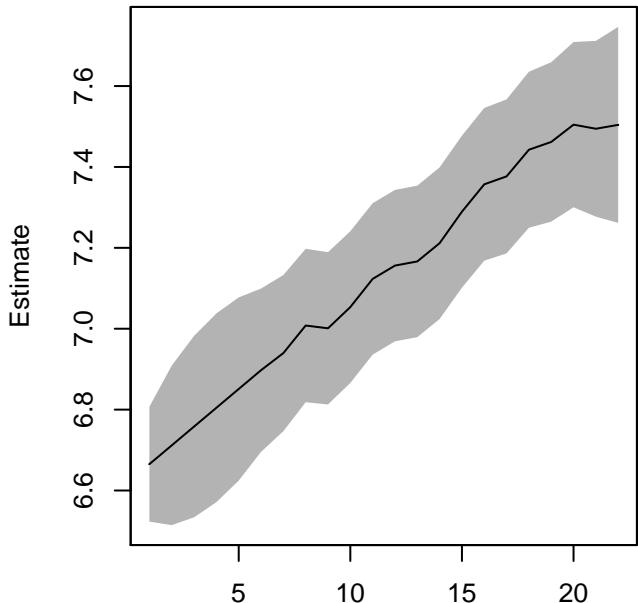


Model innovations residuals ACF

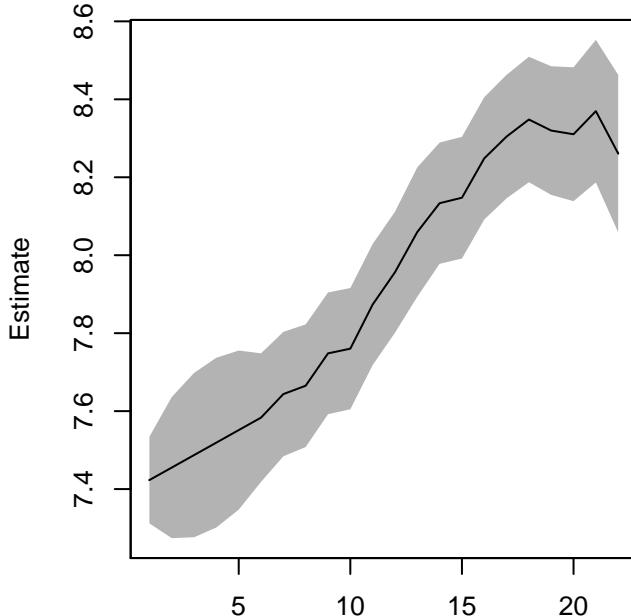


SJF + CI**SJI + CI****EBays + CI**

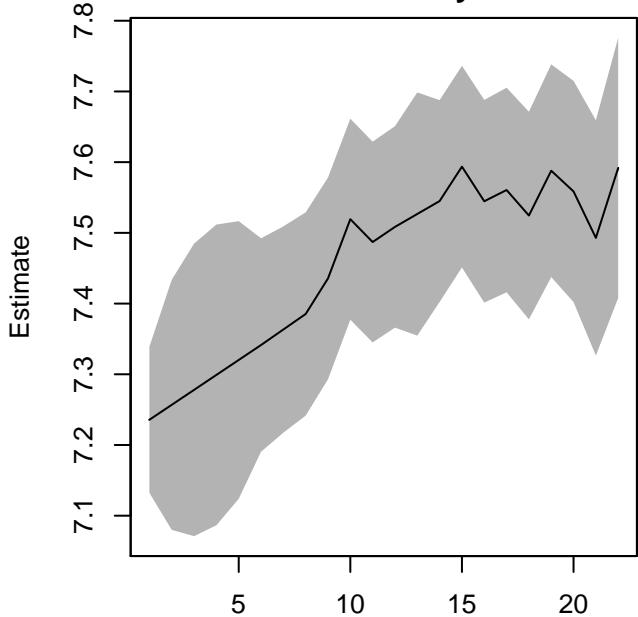
State X.SJF

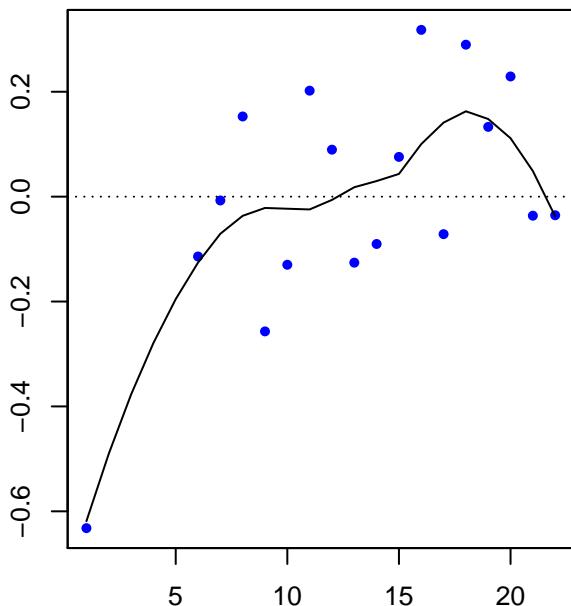
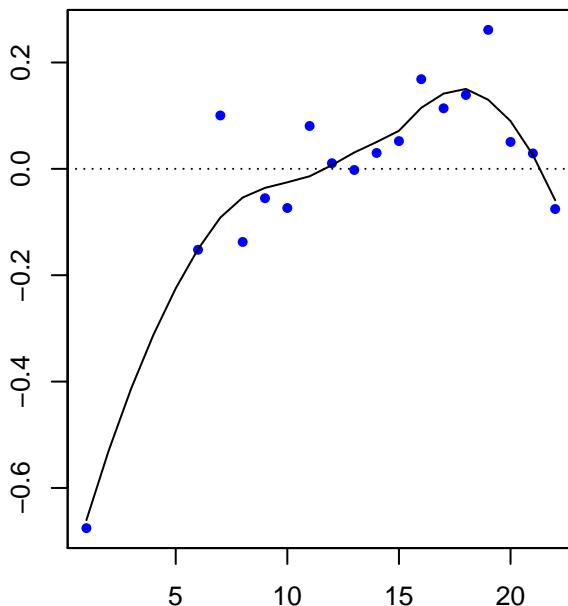
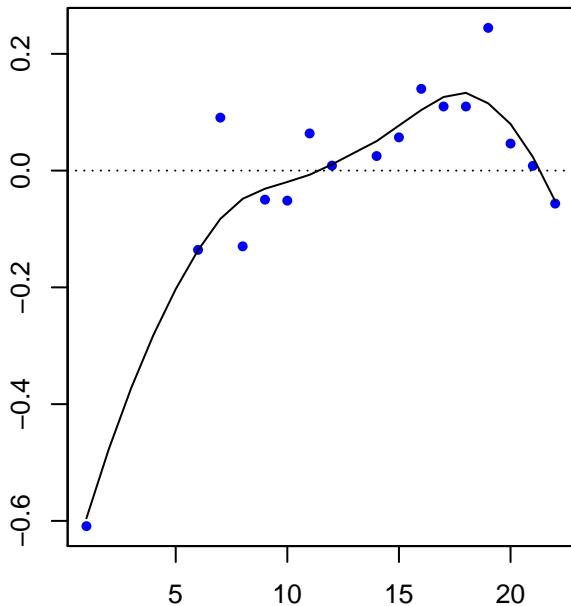


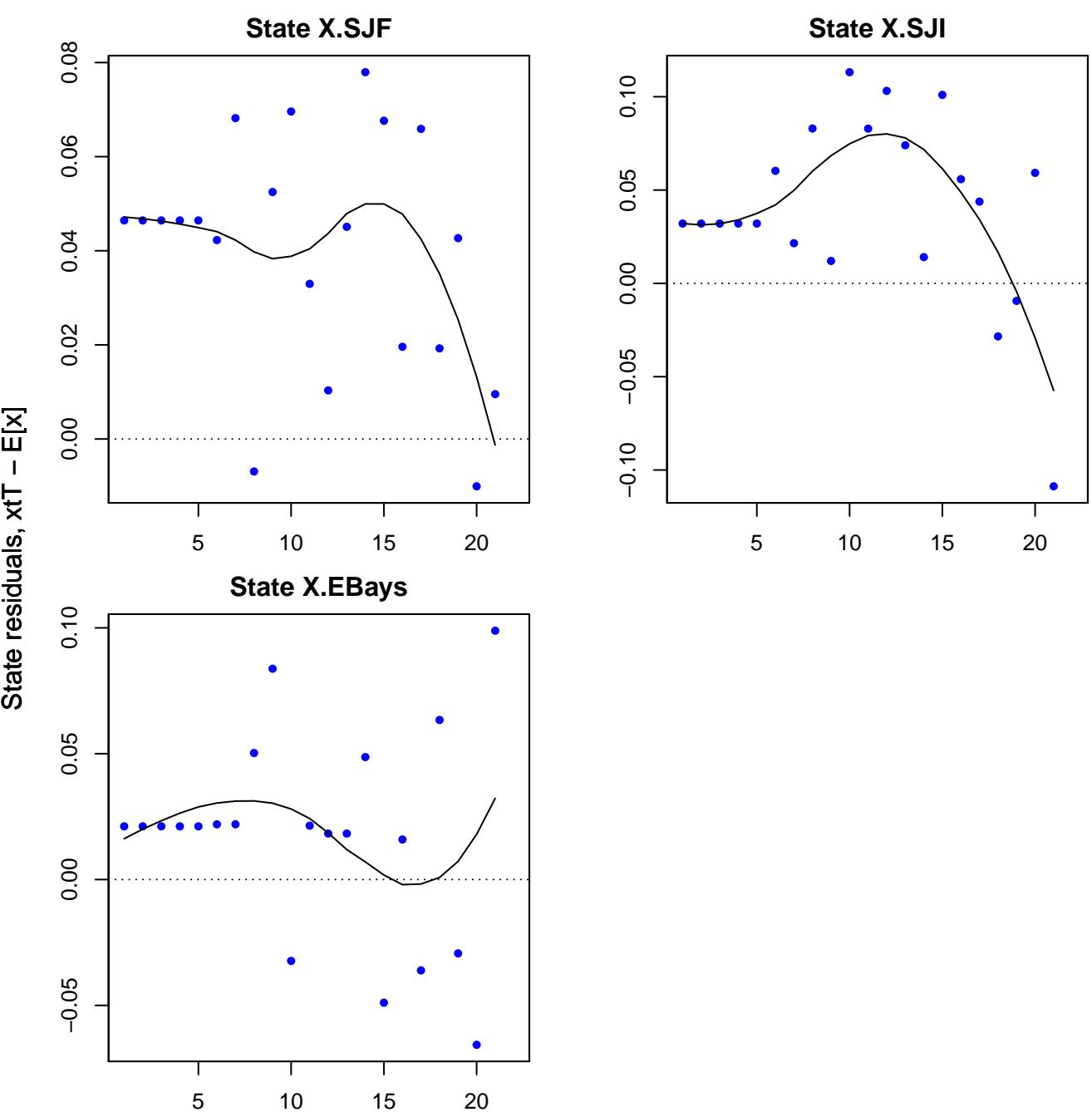
State X.SJI

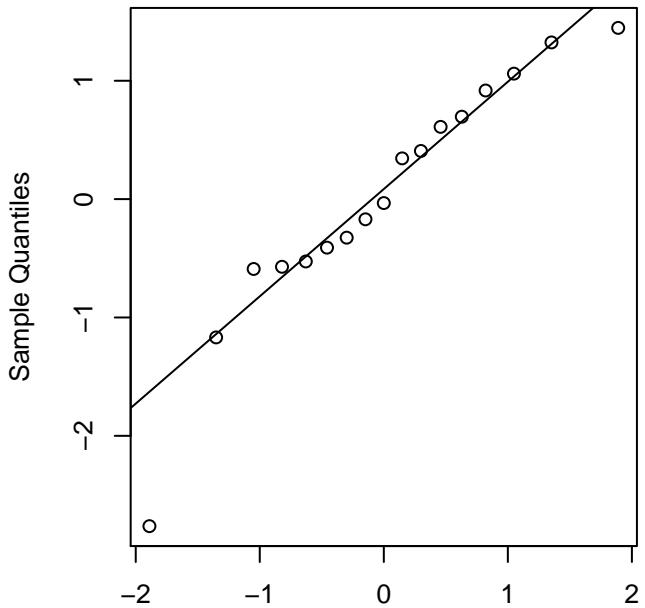
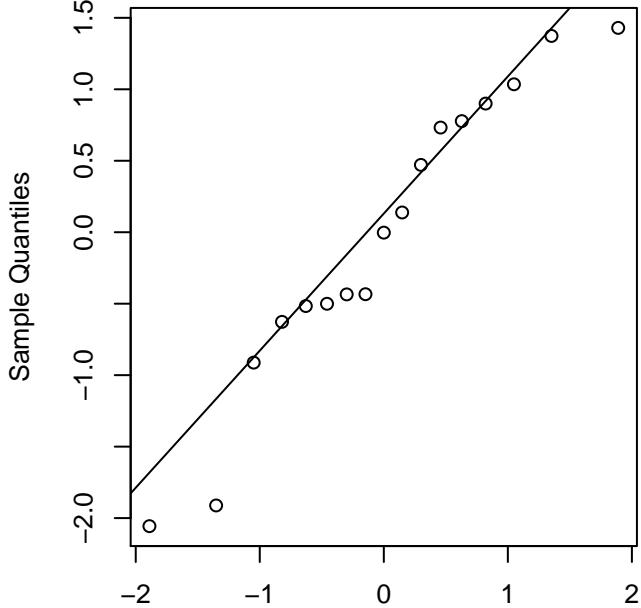
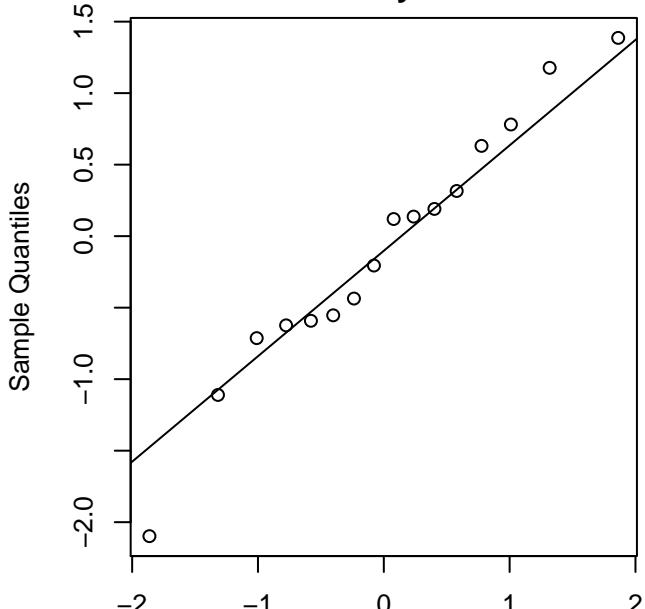


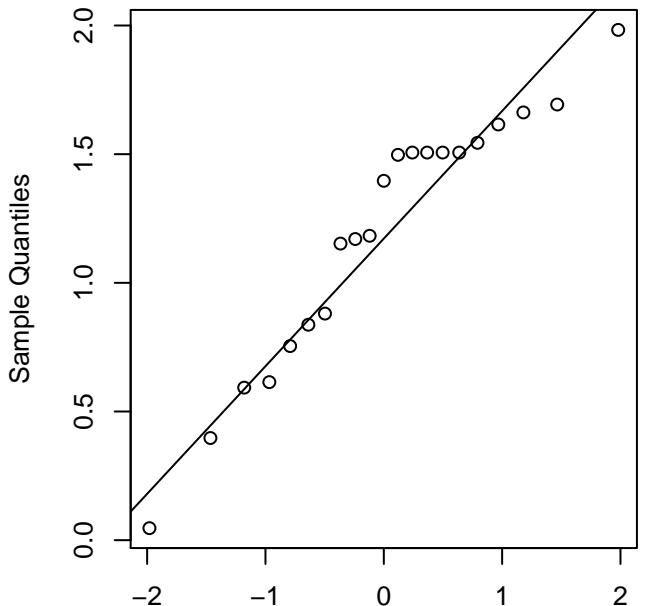
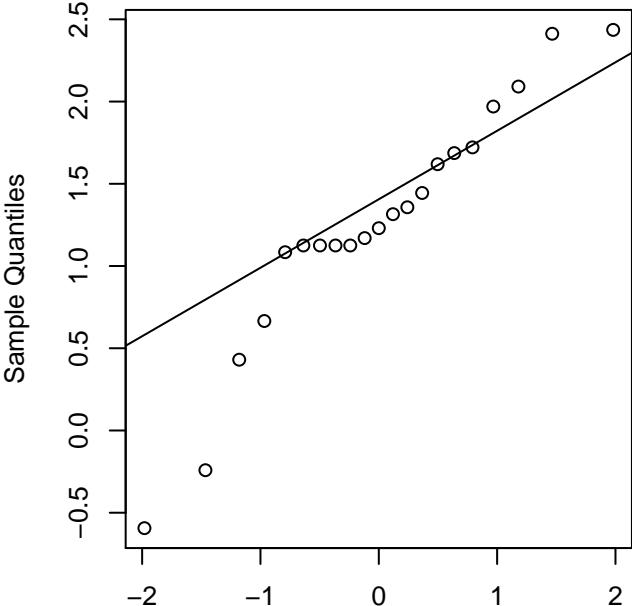
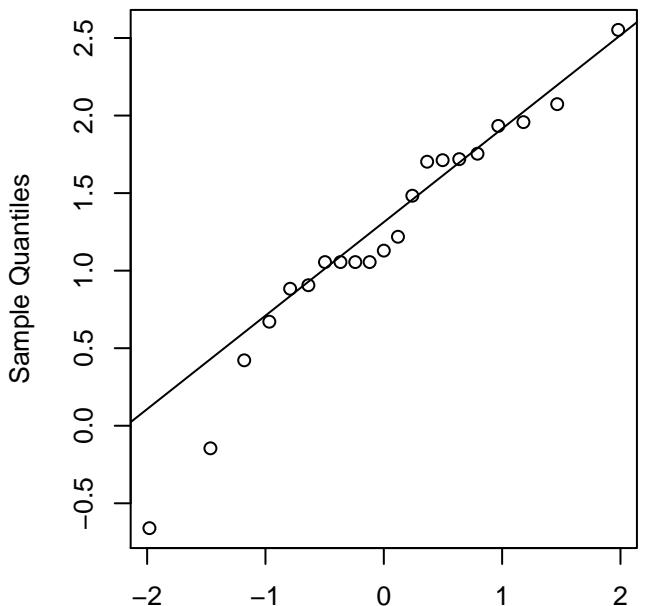
State X.EBays

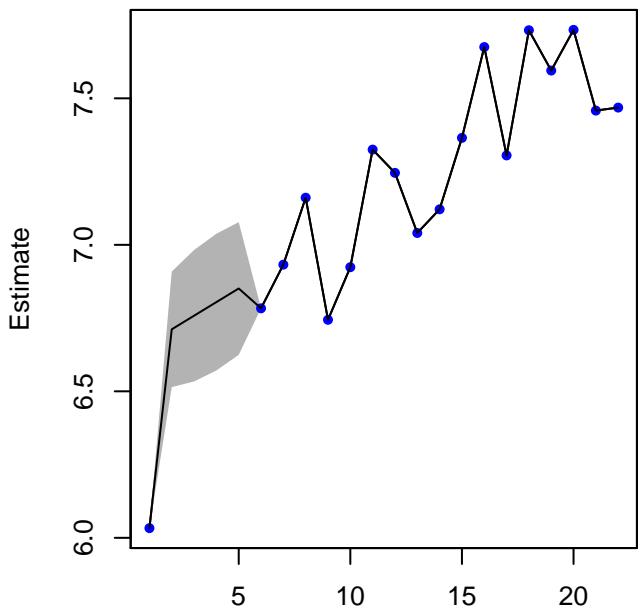
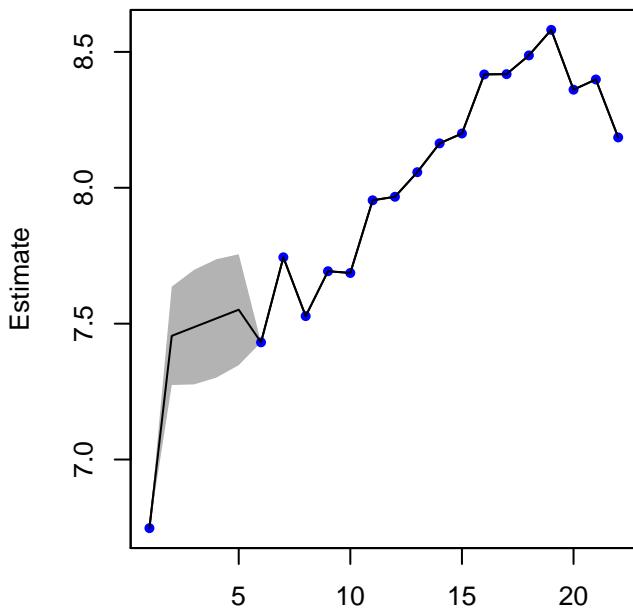
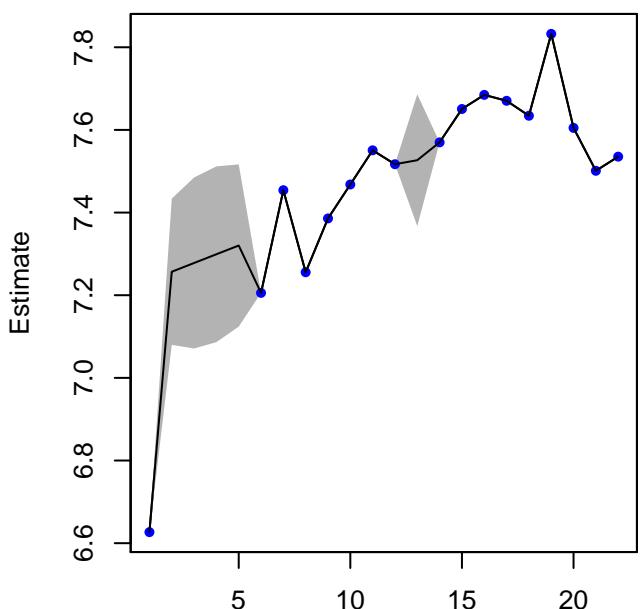


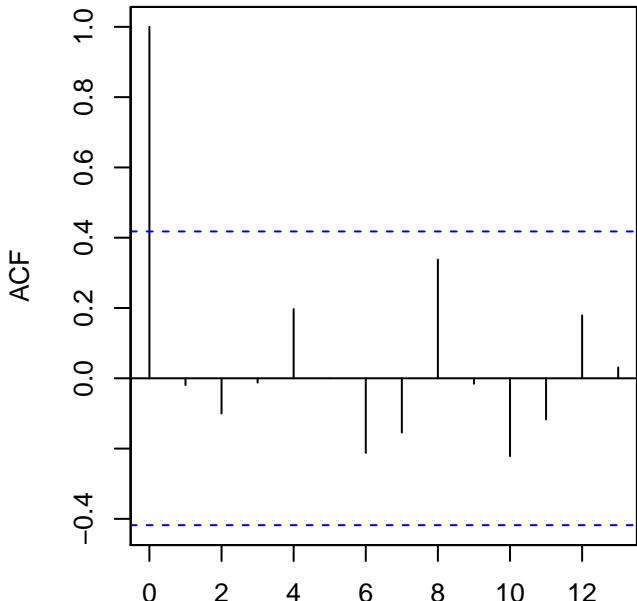
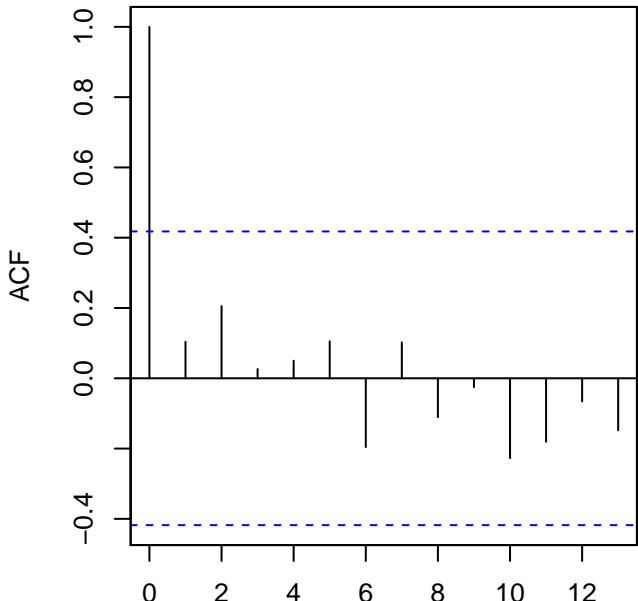
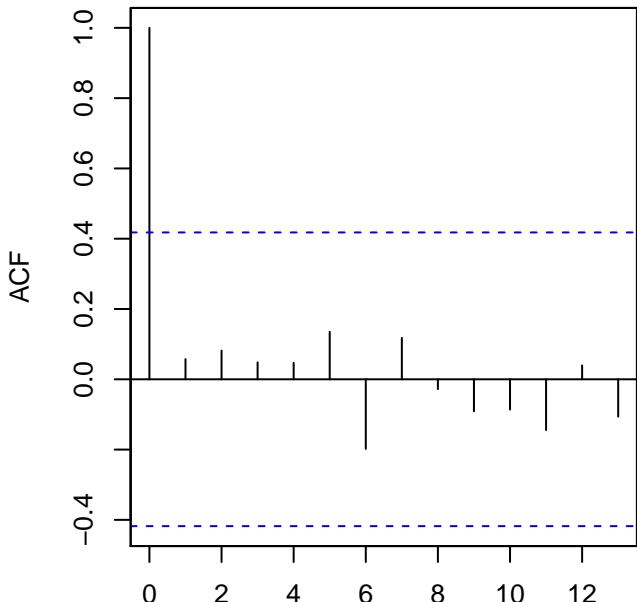
SJFObservation residuals, $y - E[y]$ **SJI****EBays**



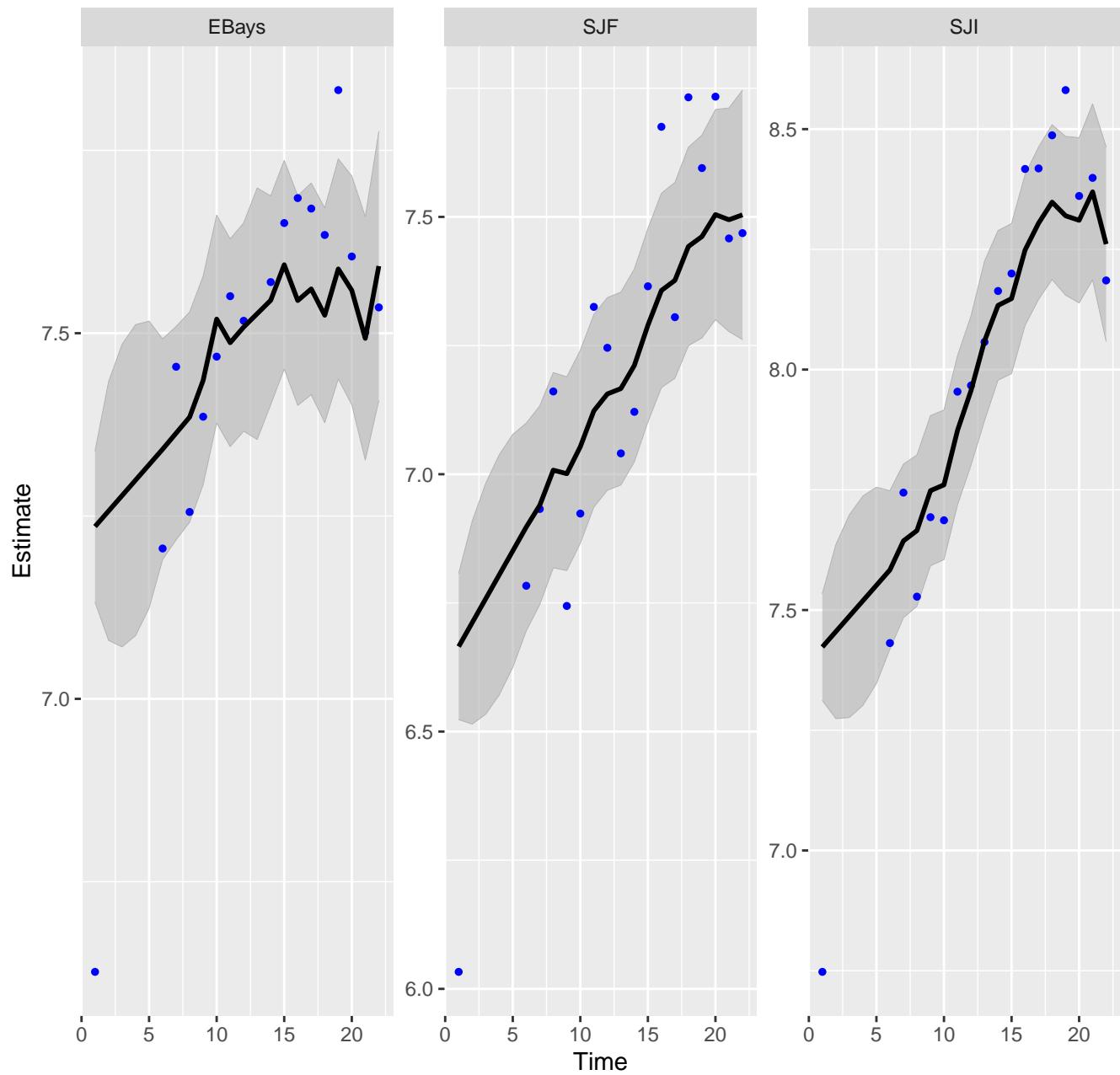
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

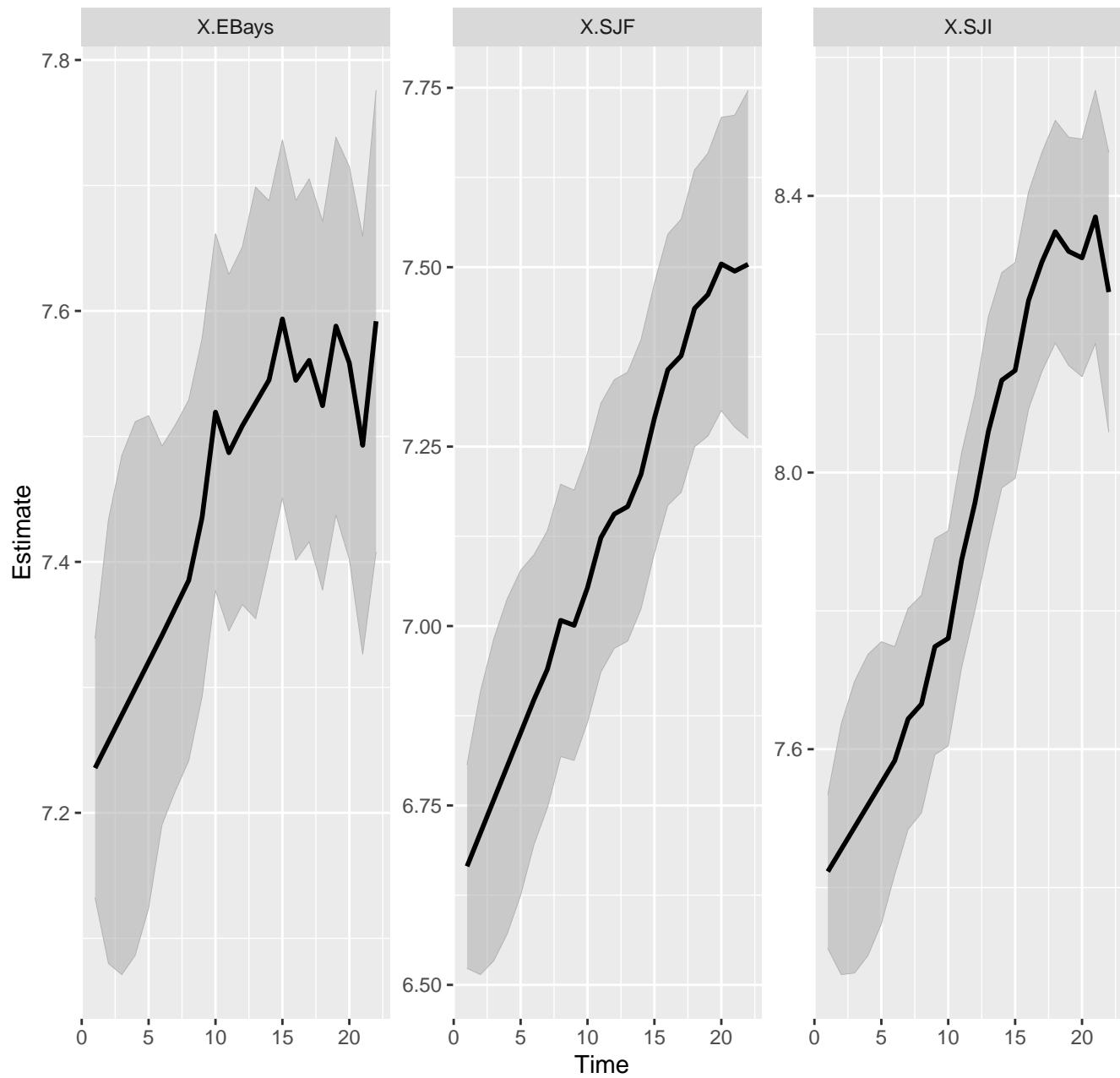
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

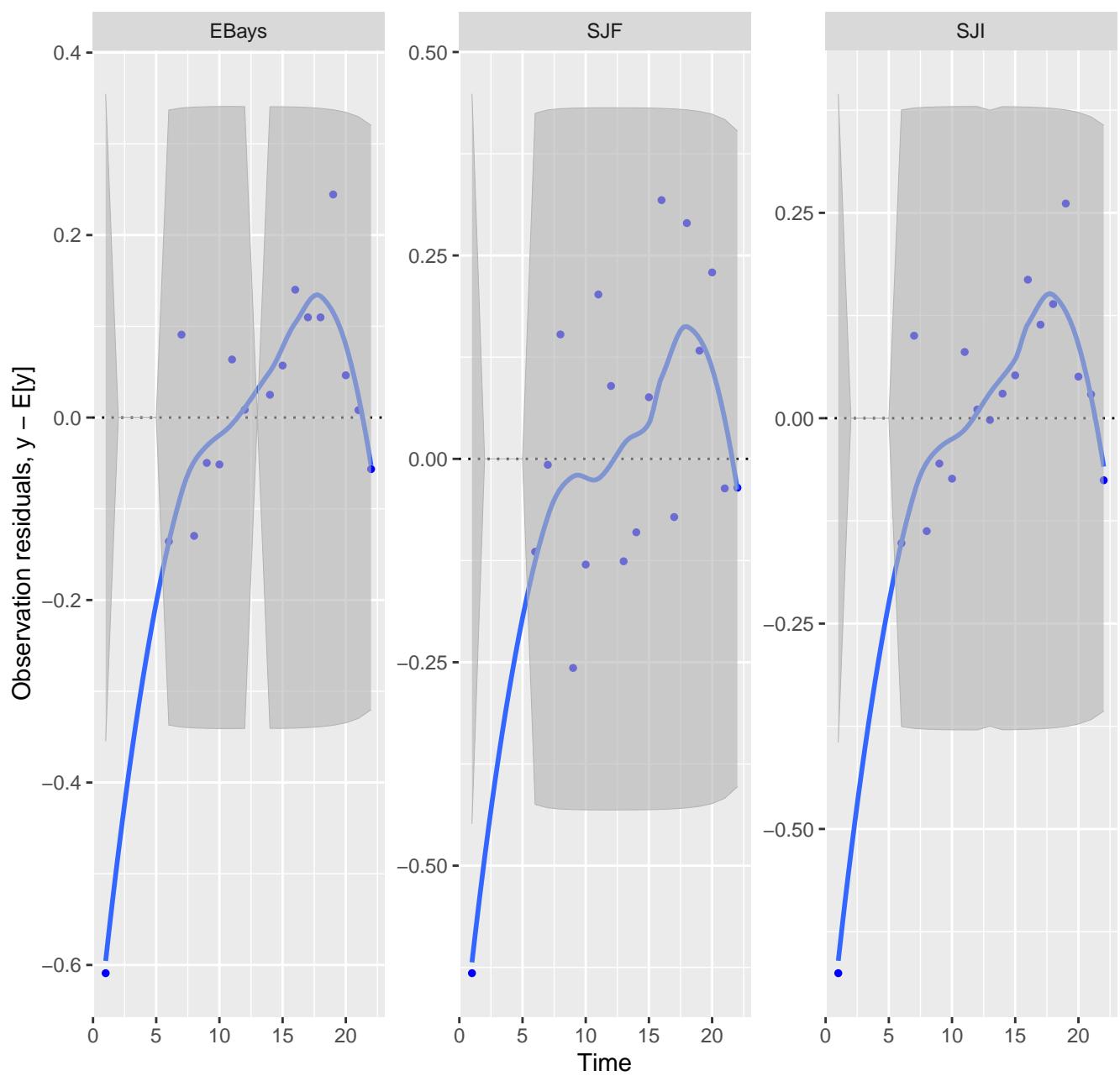
Model fitted Y + CI



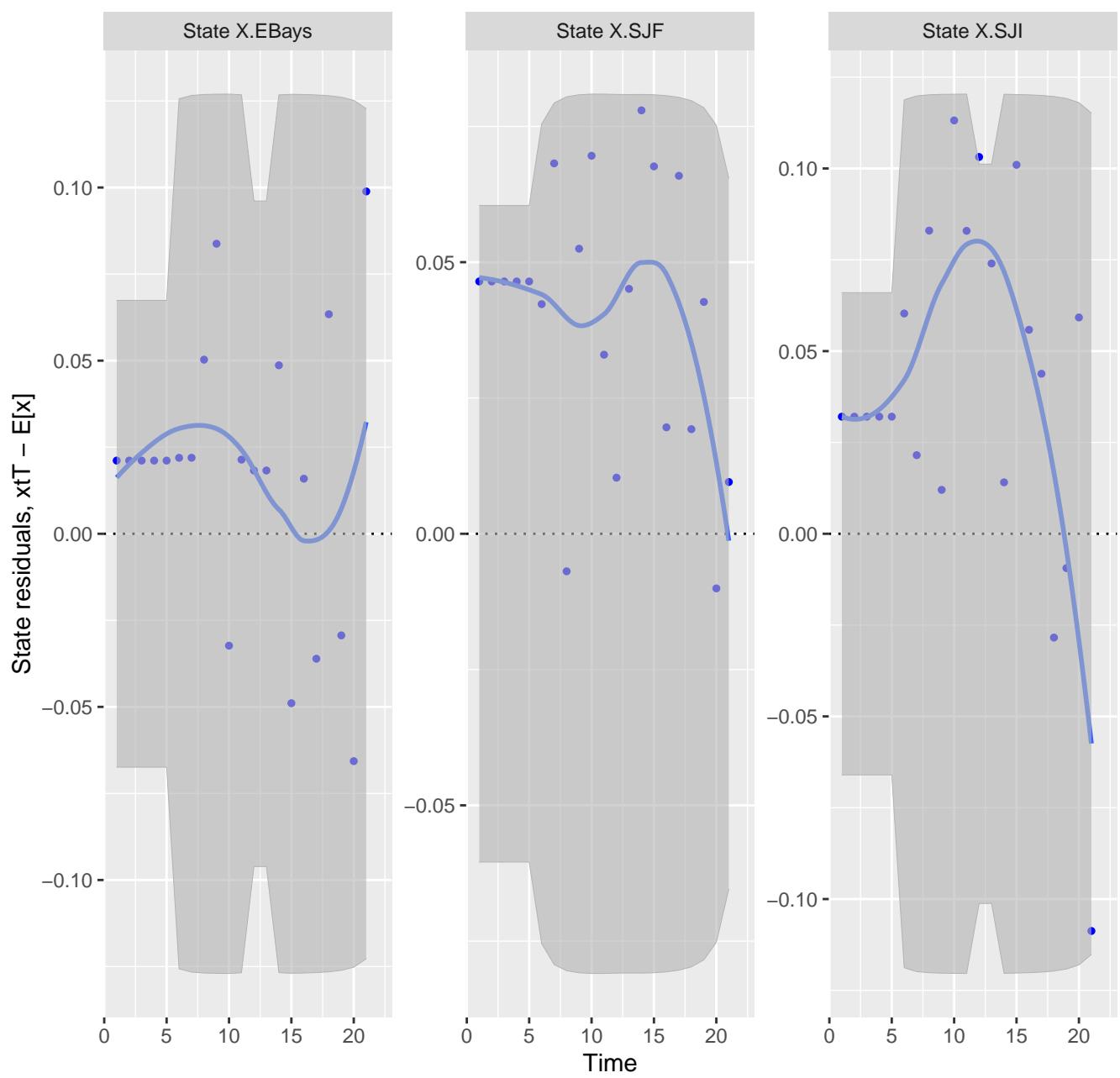
States



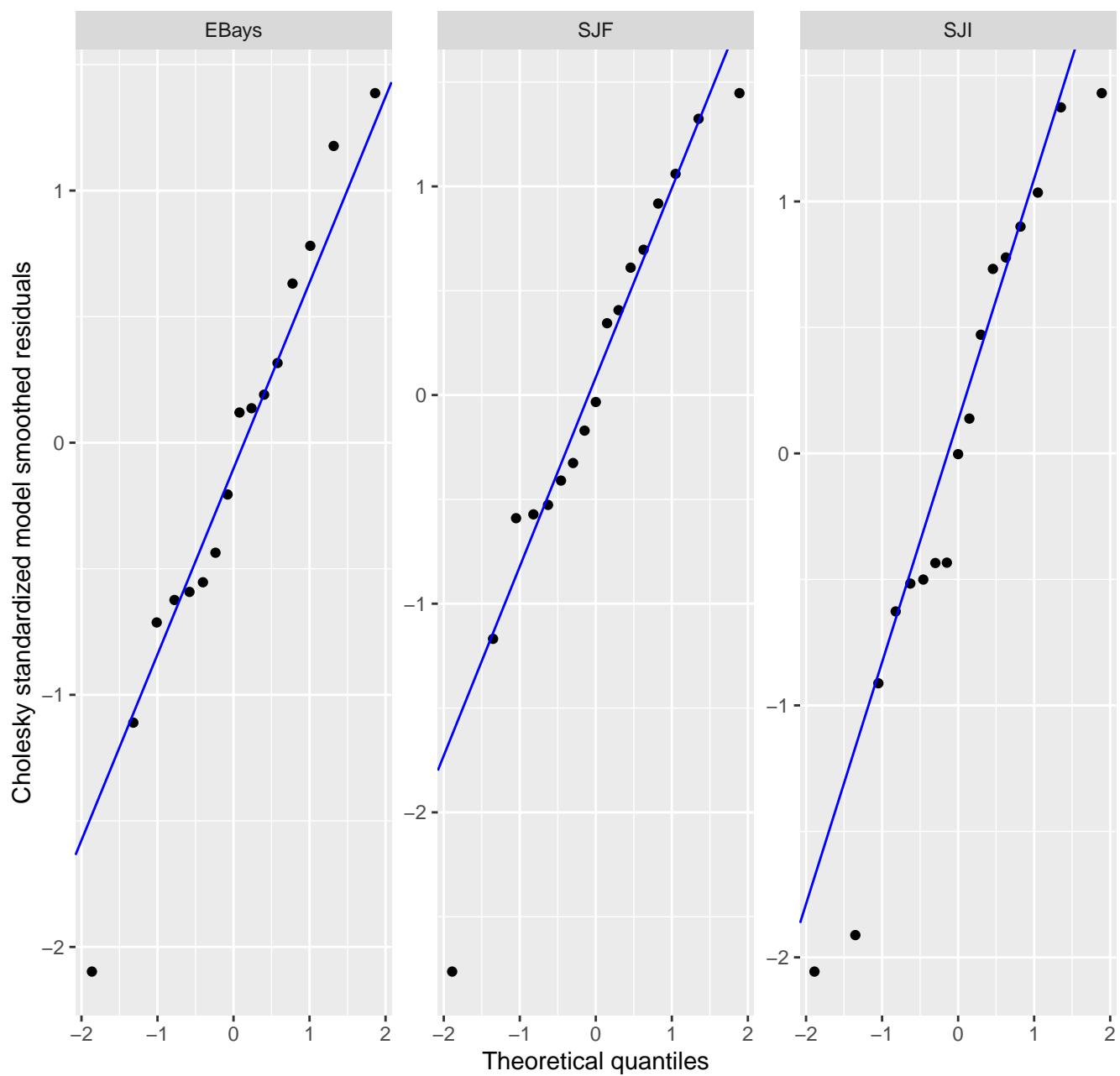
Model residuals



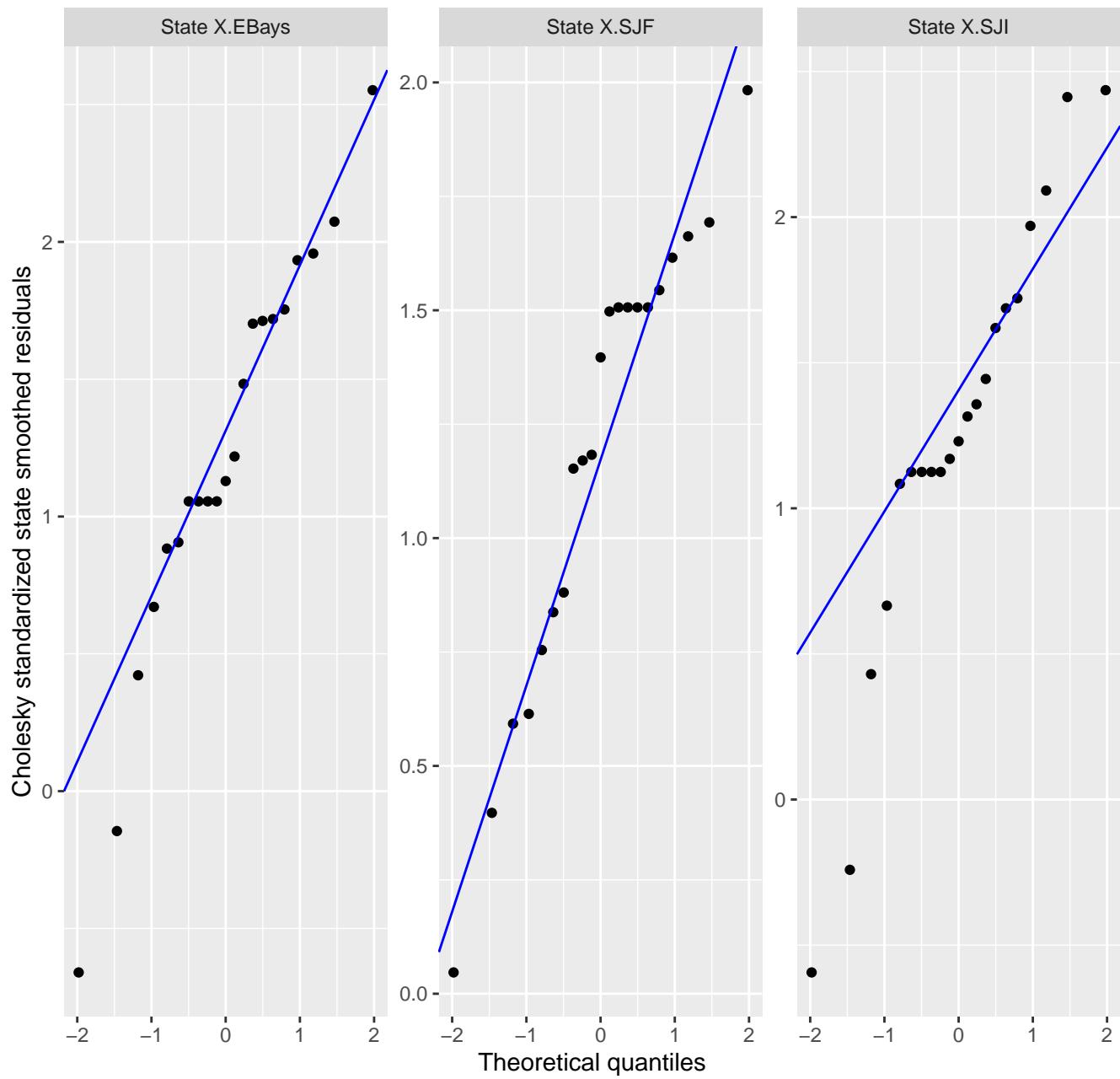
State residuals



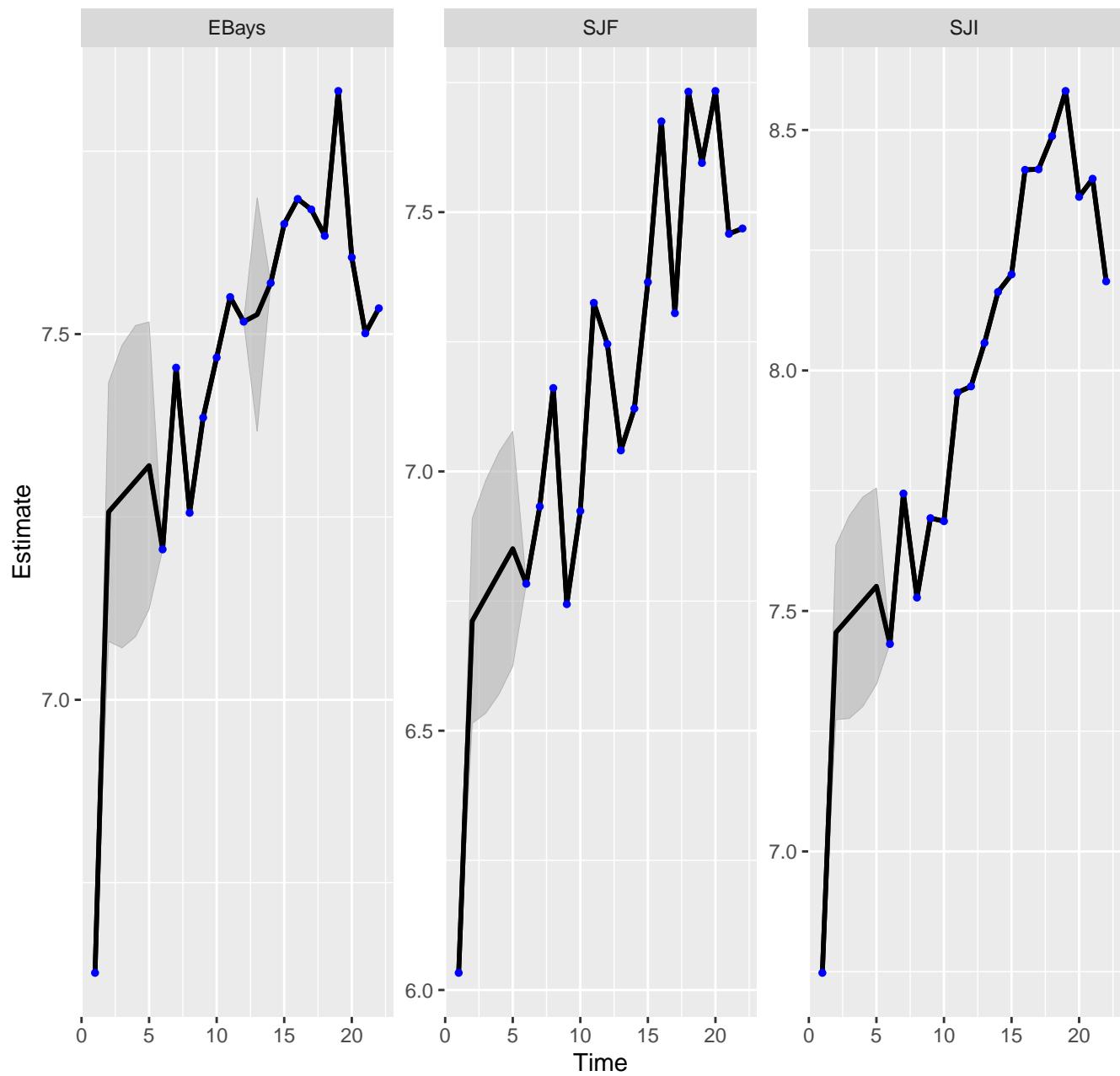
Model residuals normality test



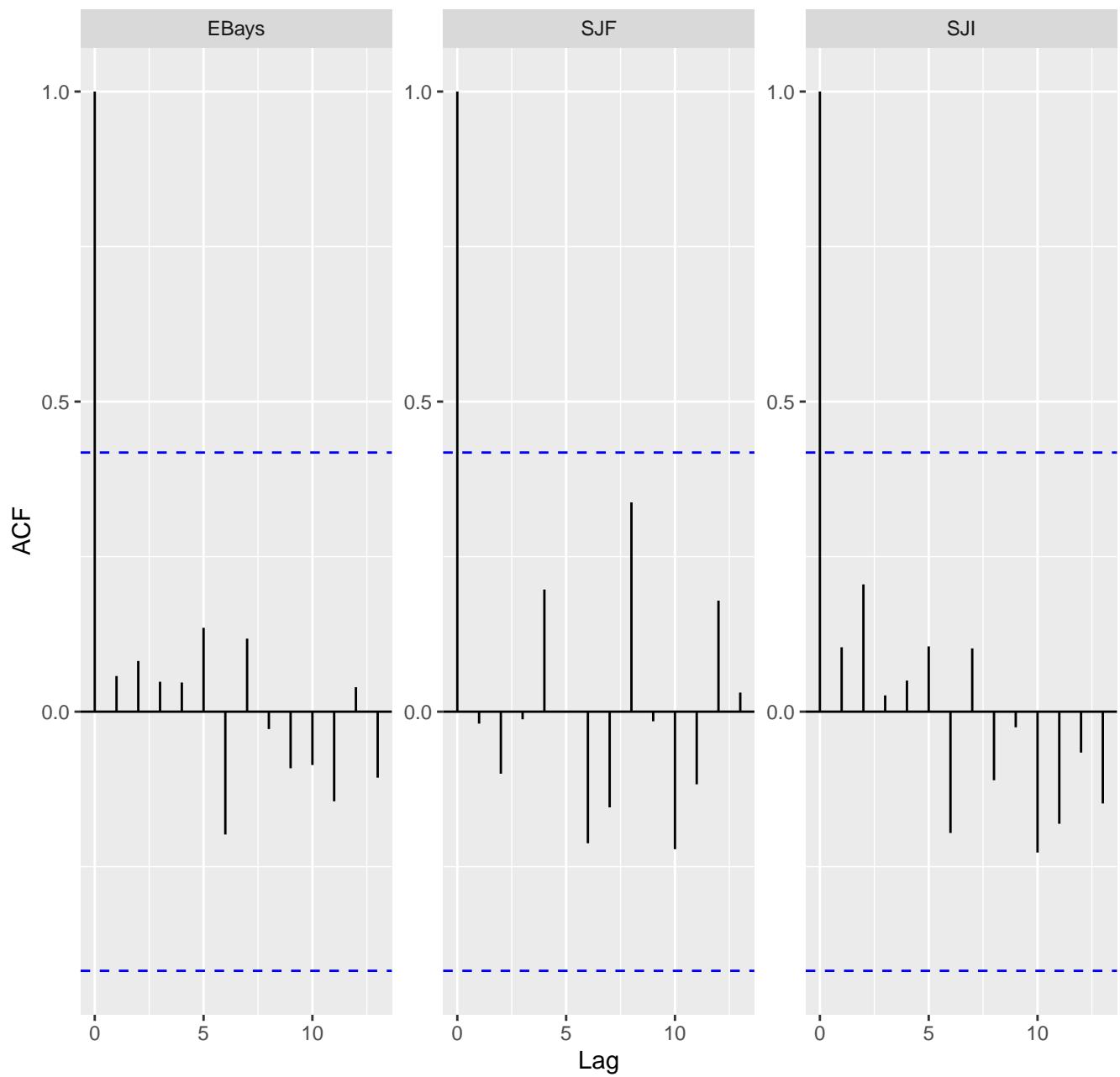
State residuals normality test

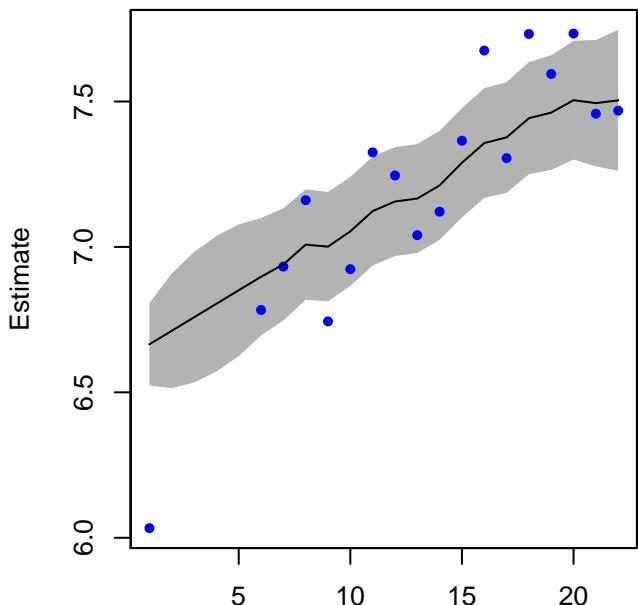
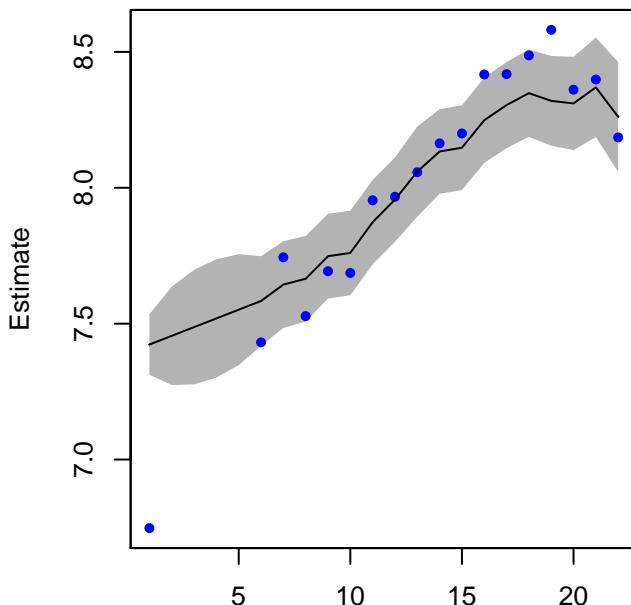
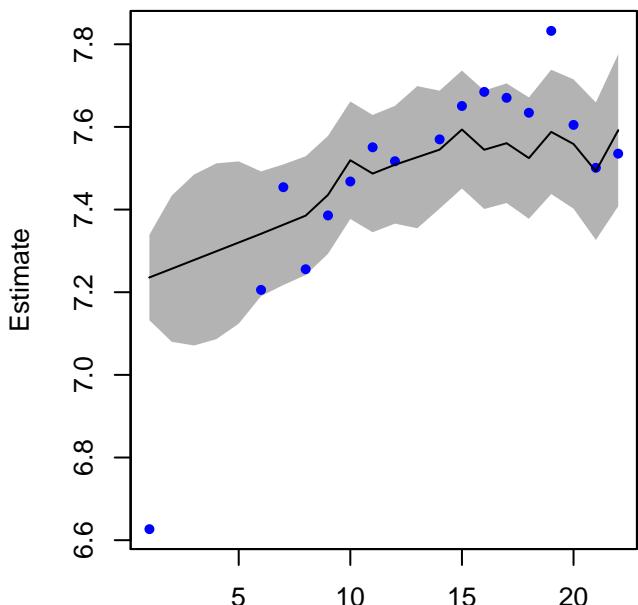


Expected value of Y conditioned on data

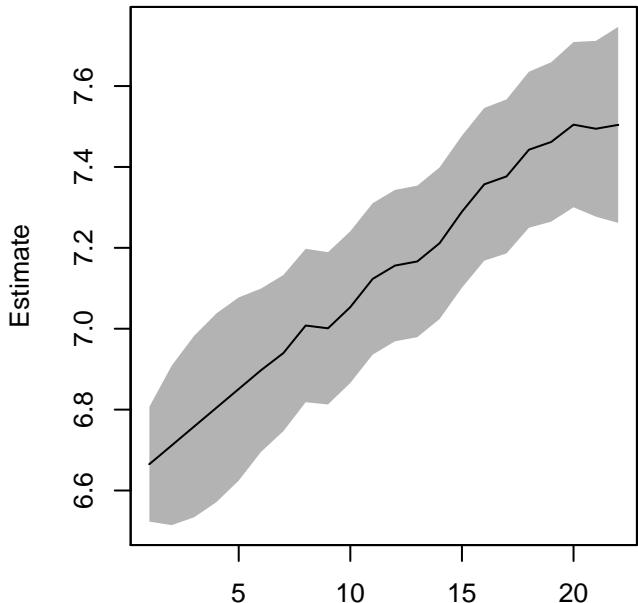


Model innovations residuals ACF

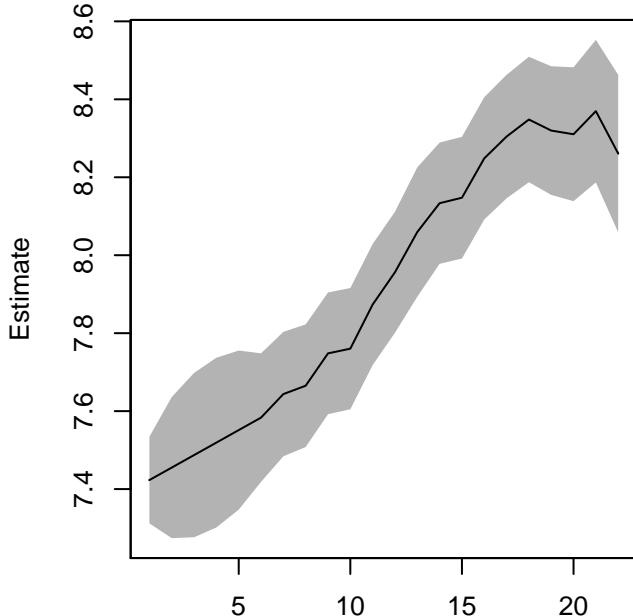


SJF + CI**SJI + CI****EBays + CI**

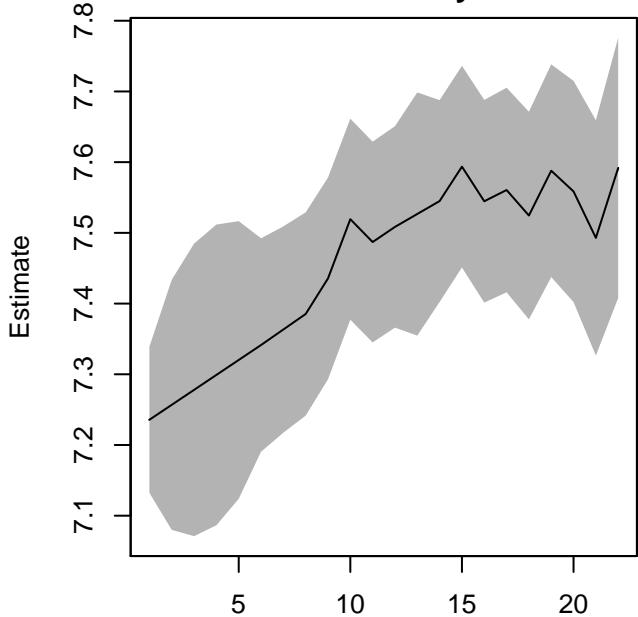
State X.SJF

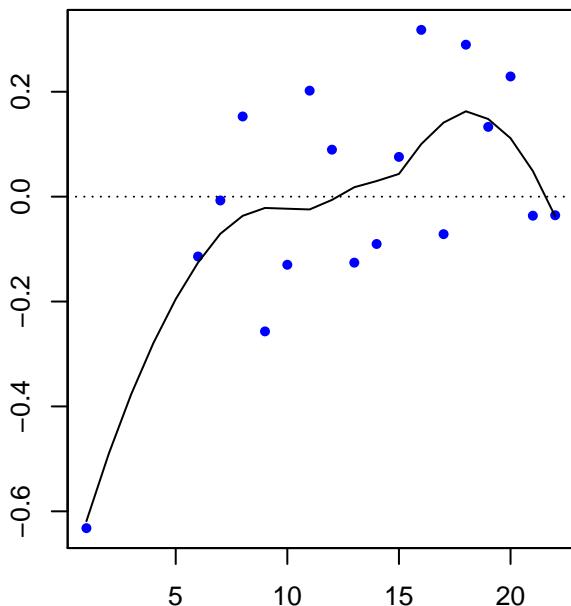
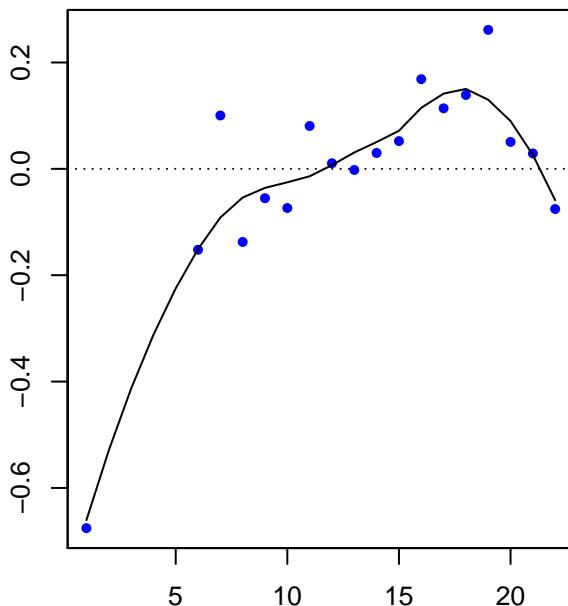
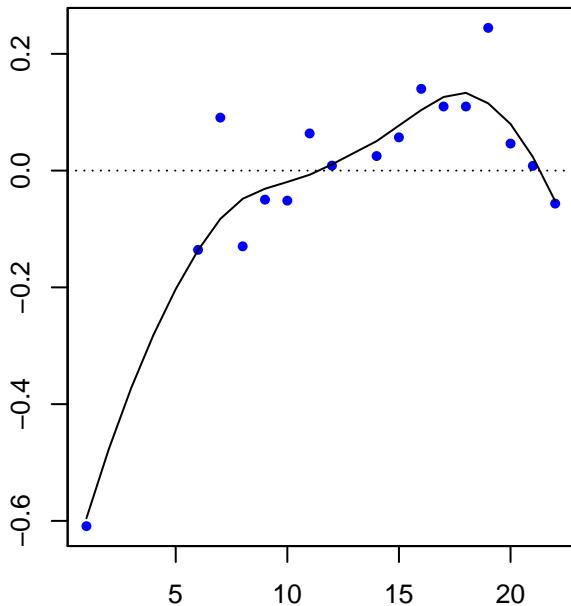


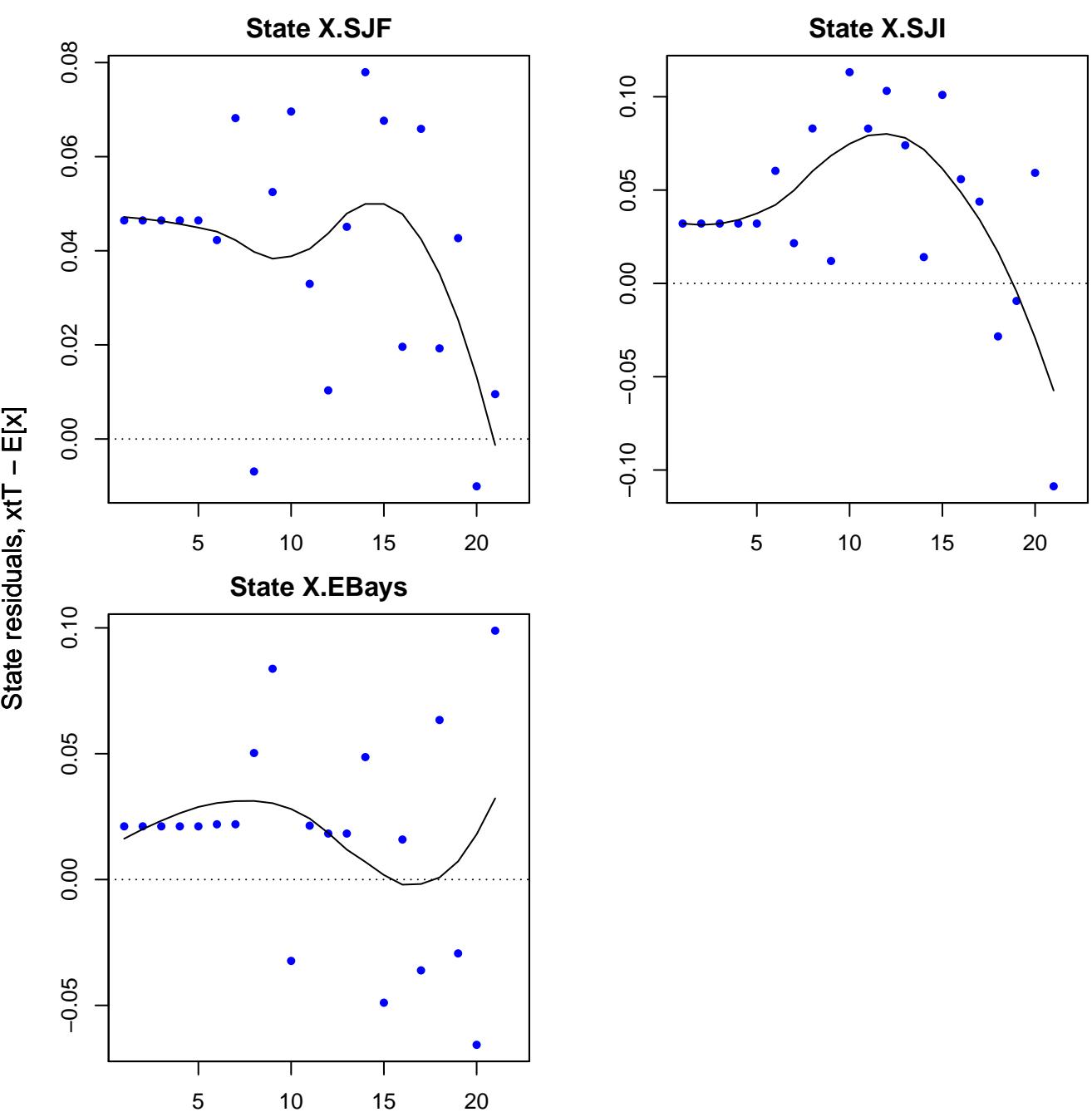
State X.SJI

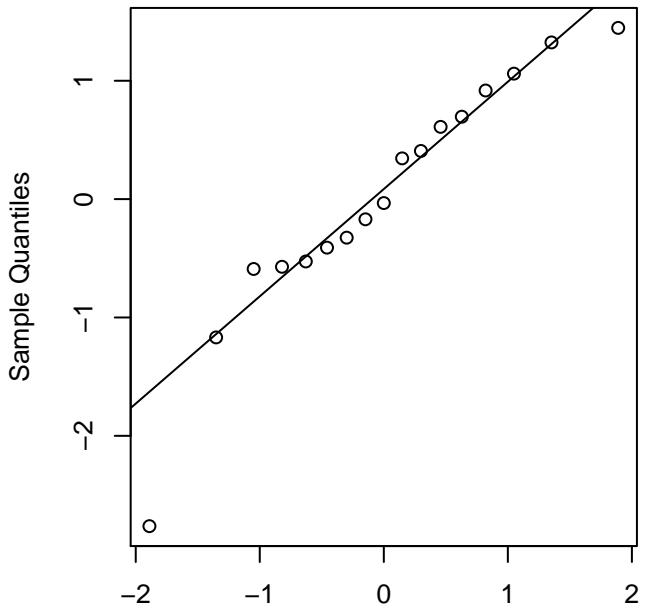
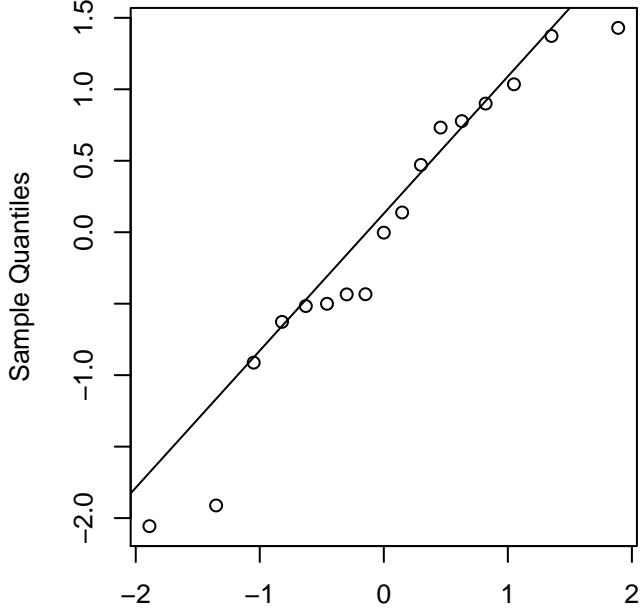
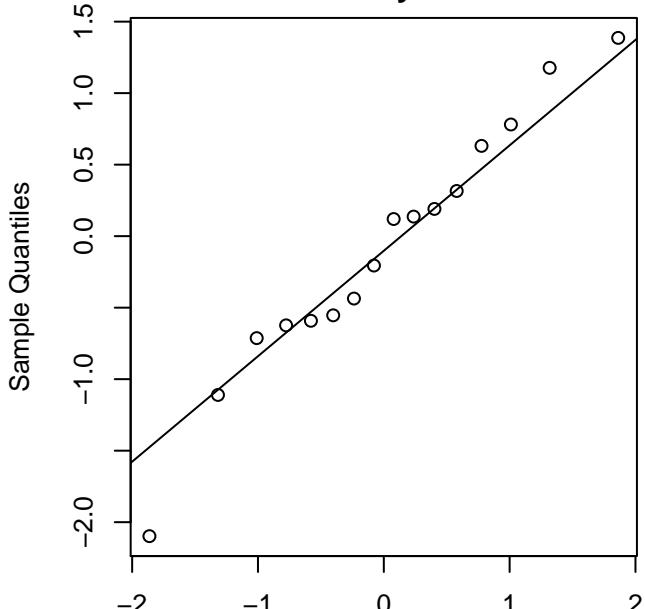


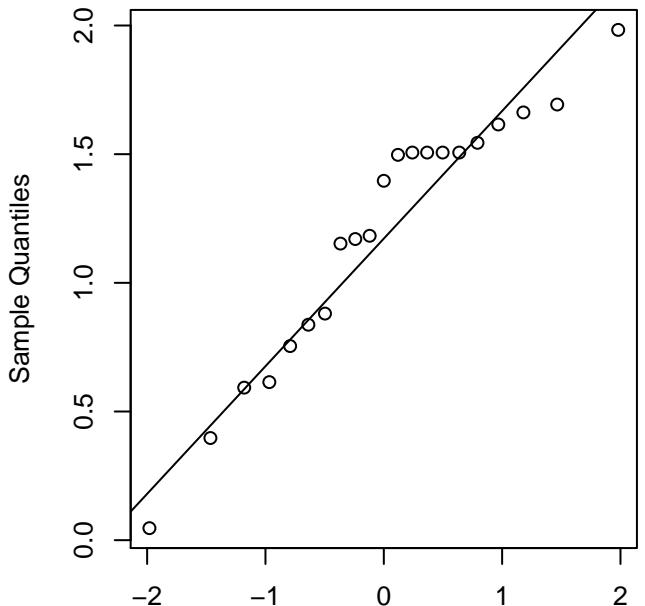
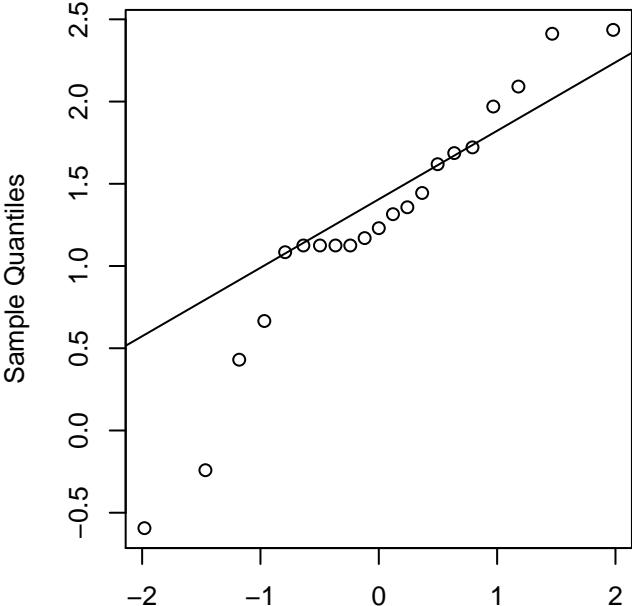
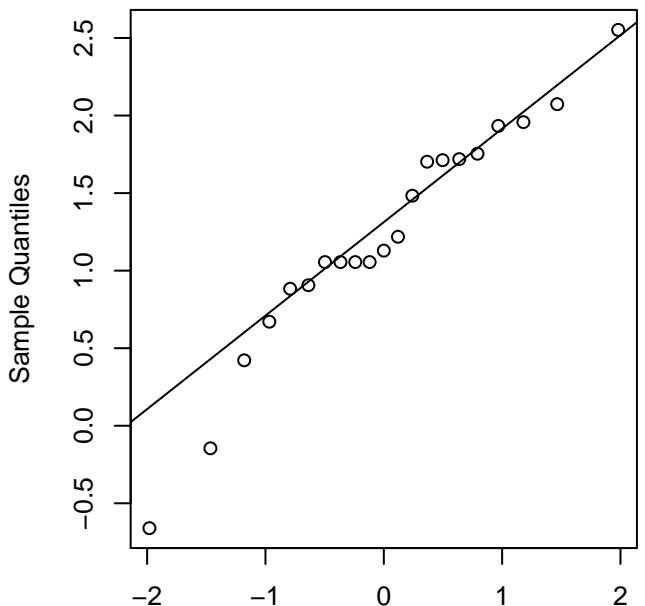
State X.EBays

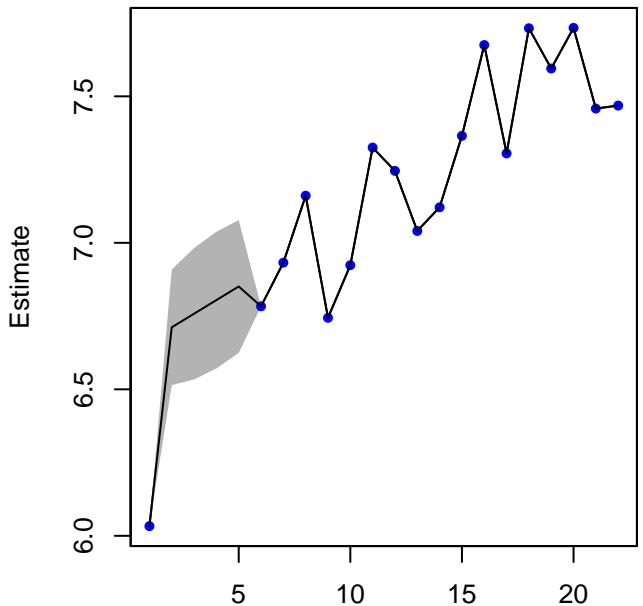
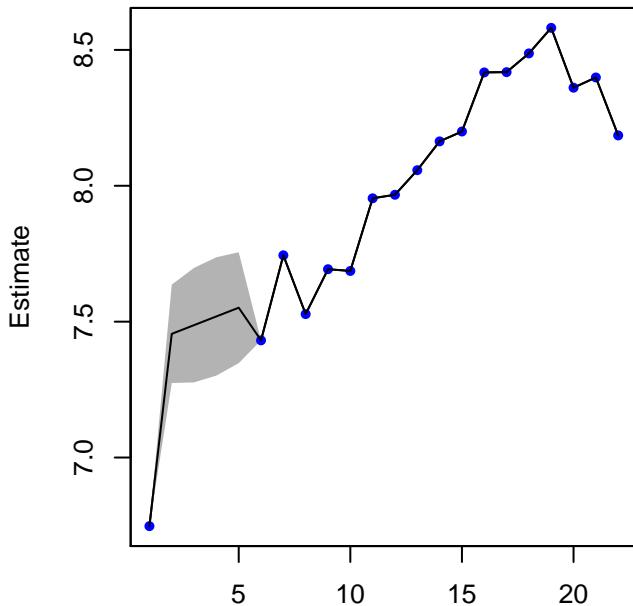
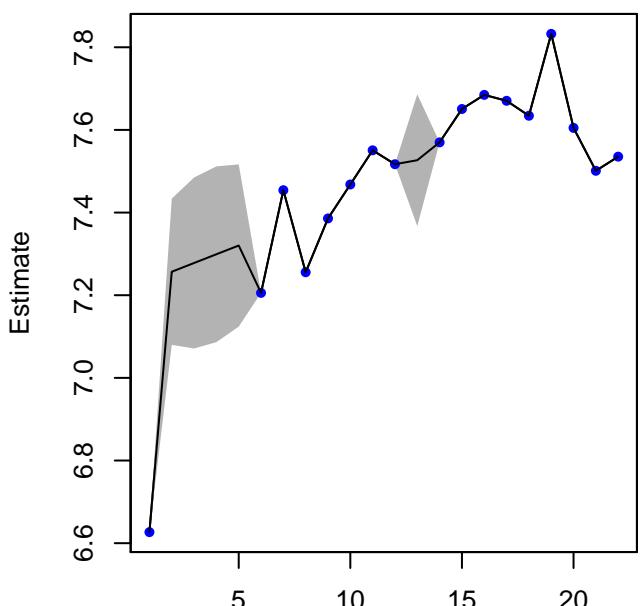


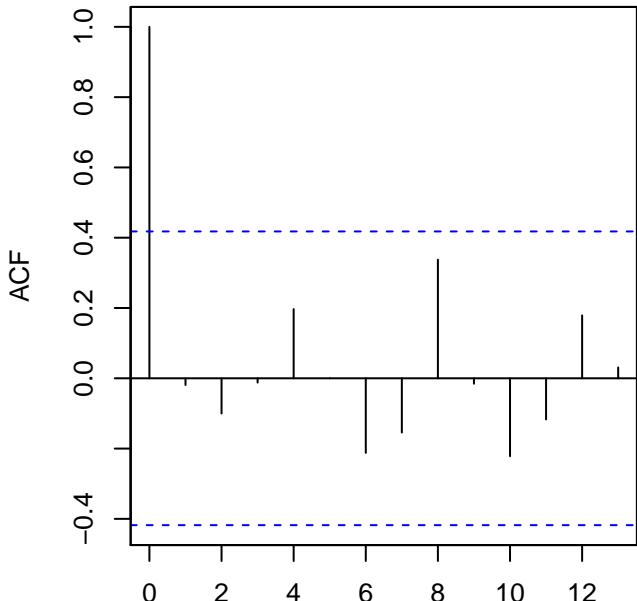
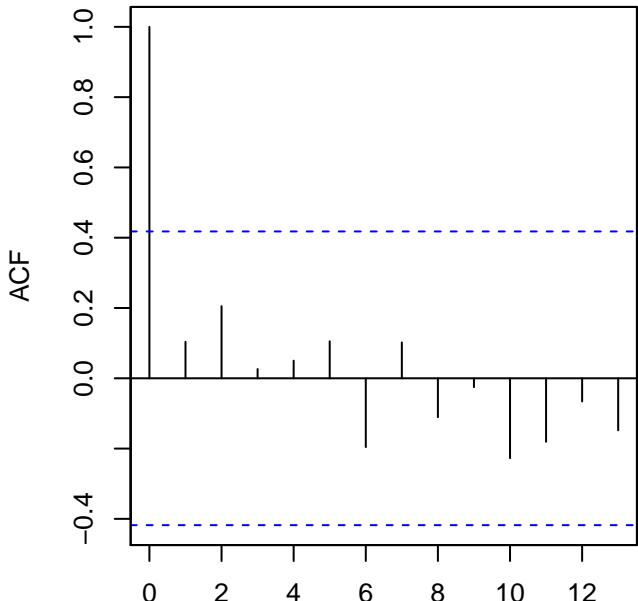
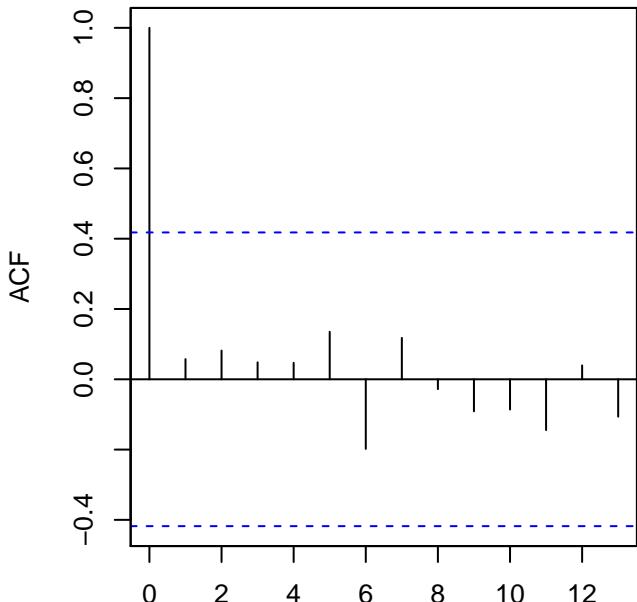
SJFObservation residuals, $y - E[y]$ **SJI****EBays**



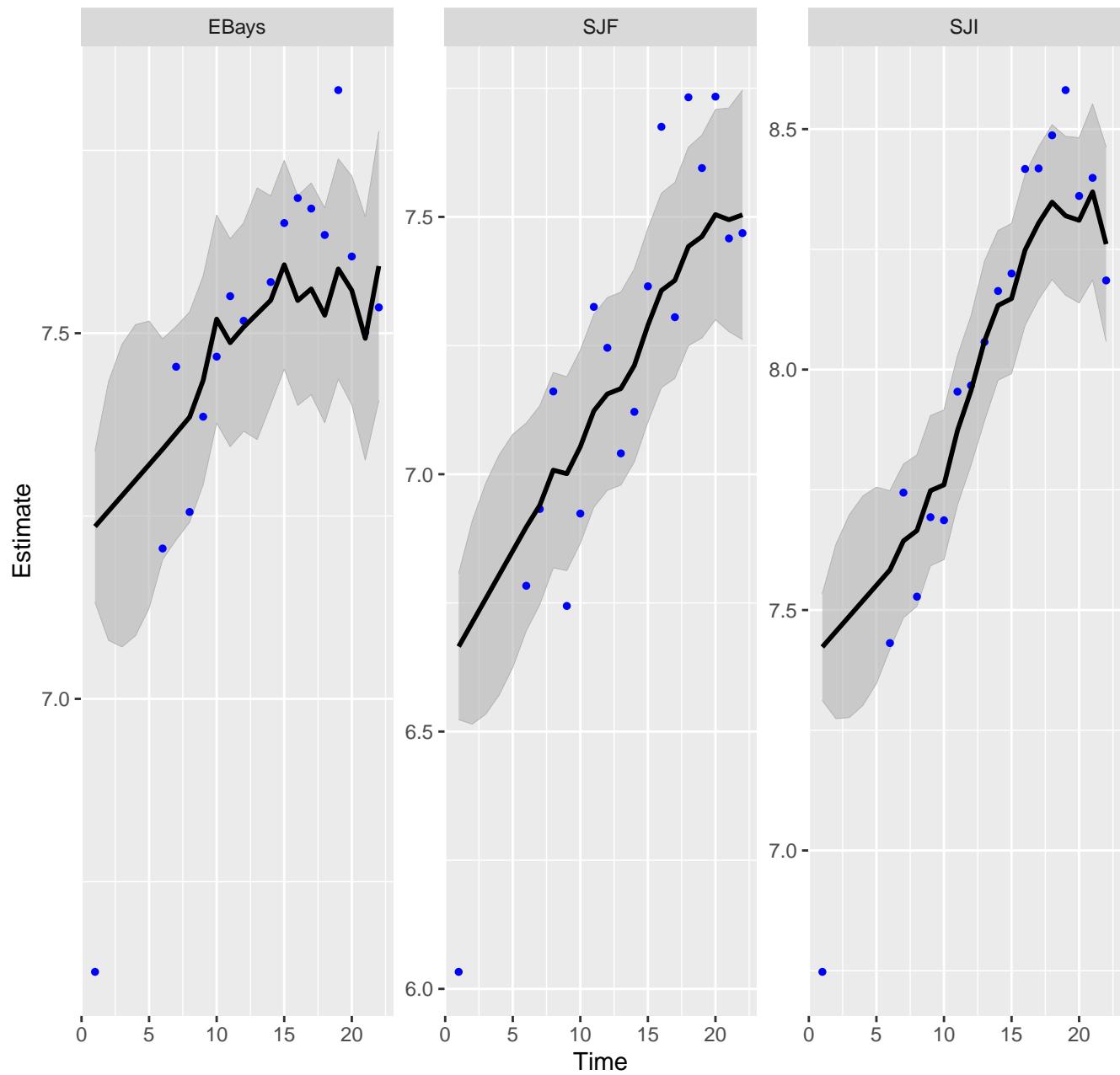
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

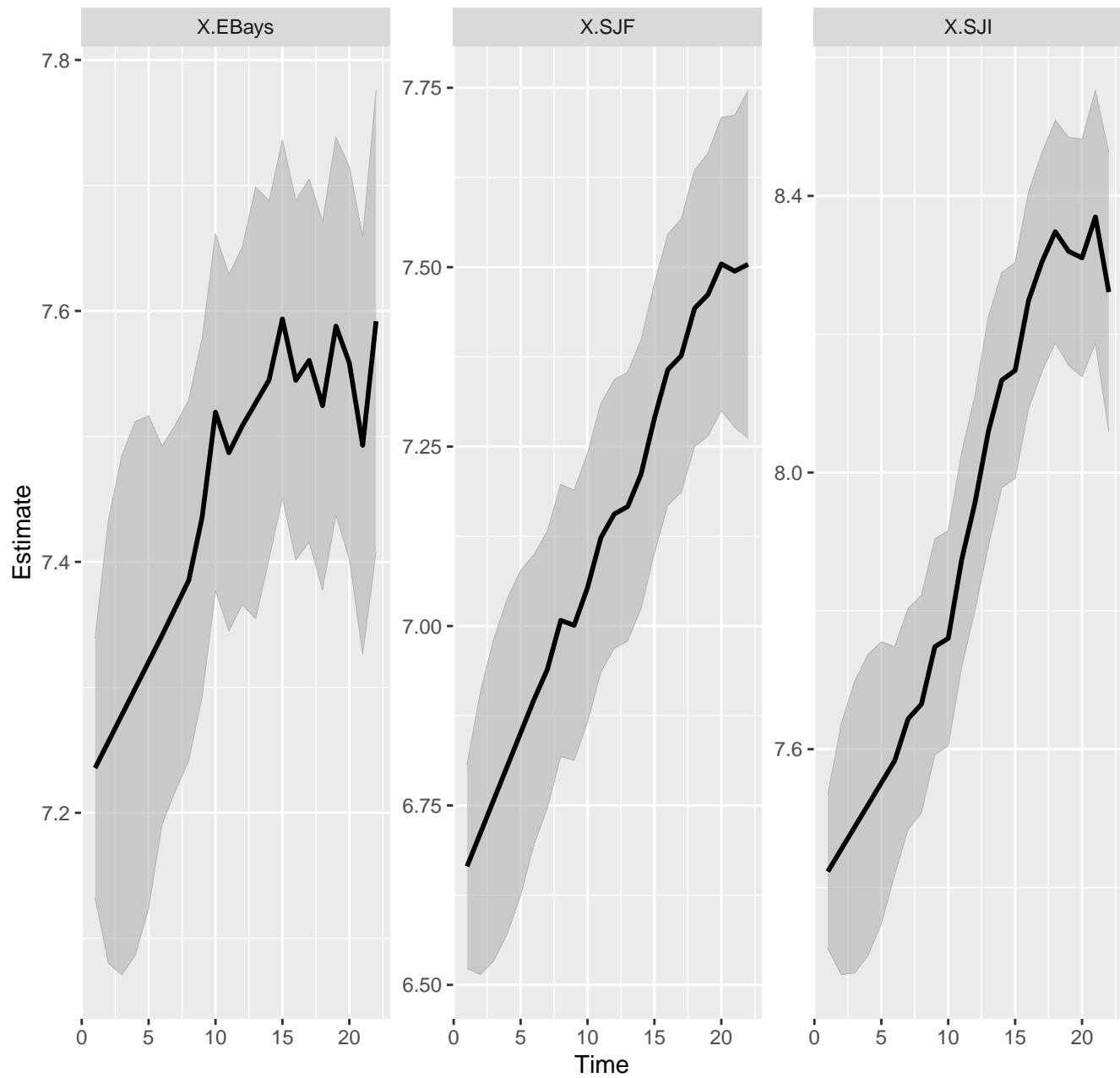
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

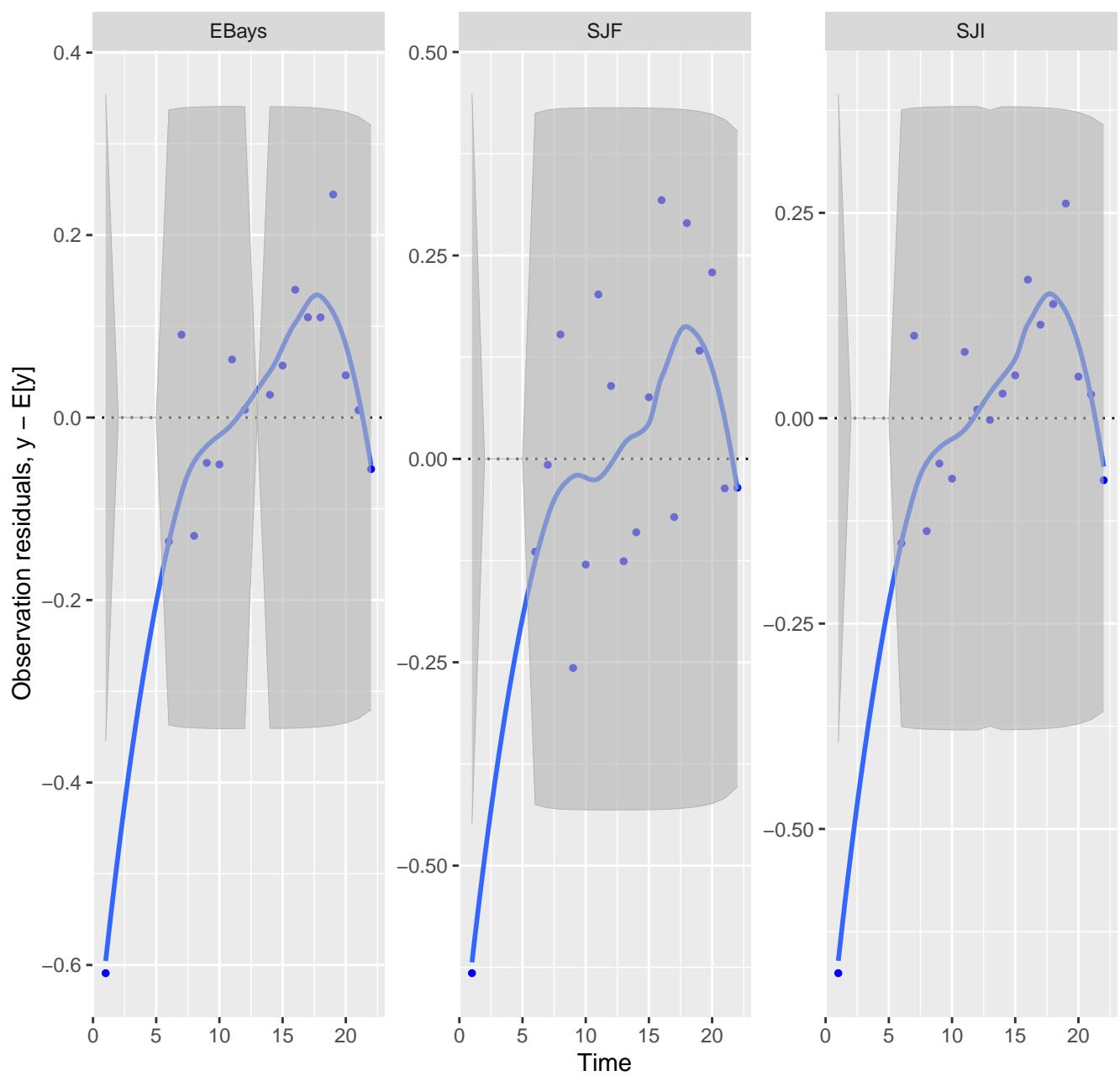
Model fitted Y + CI



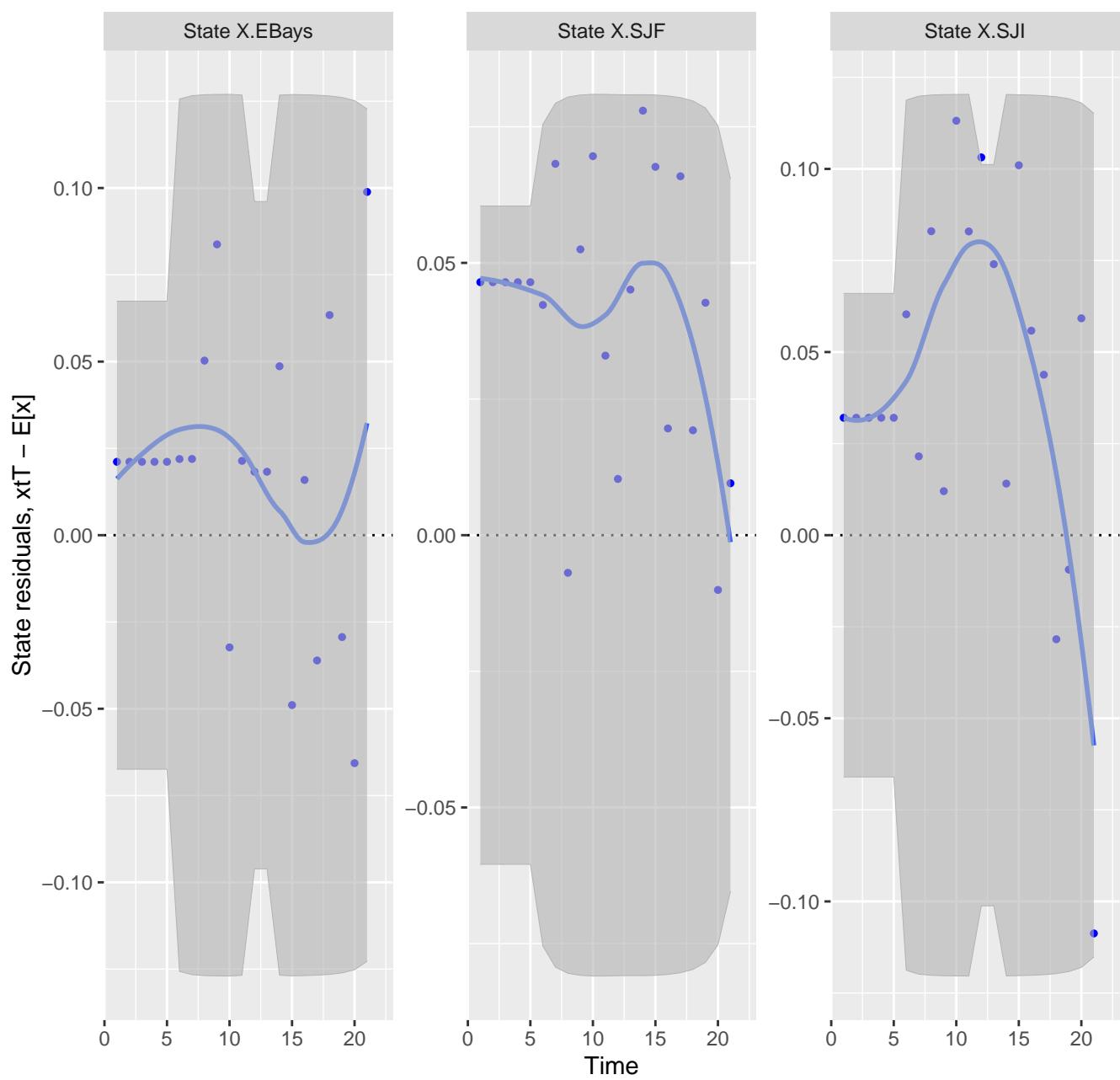
States



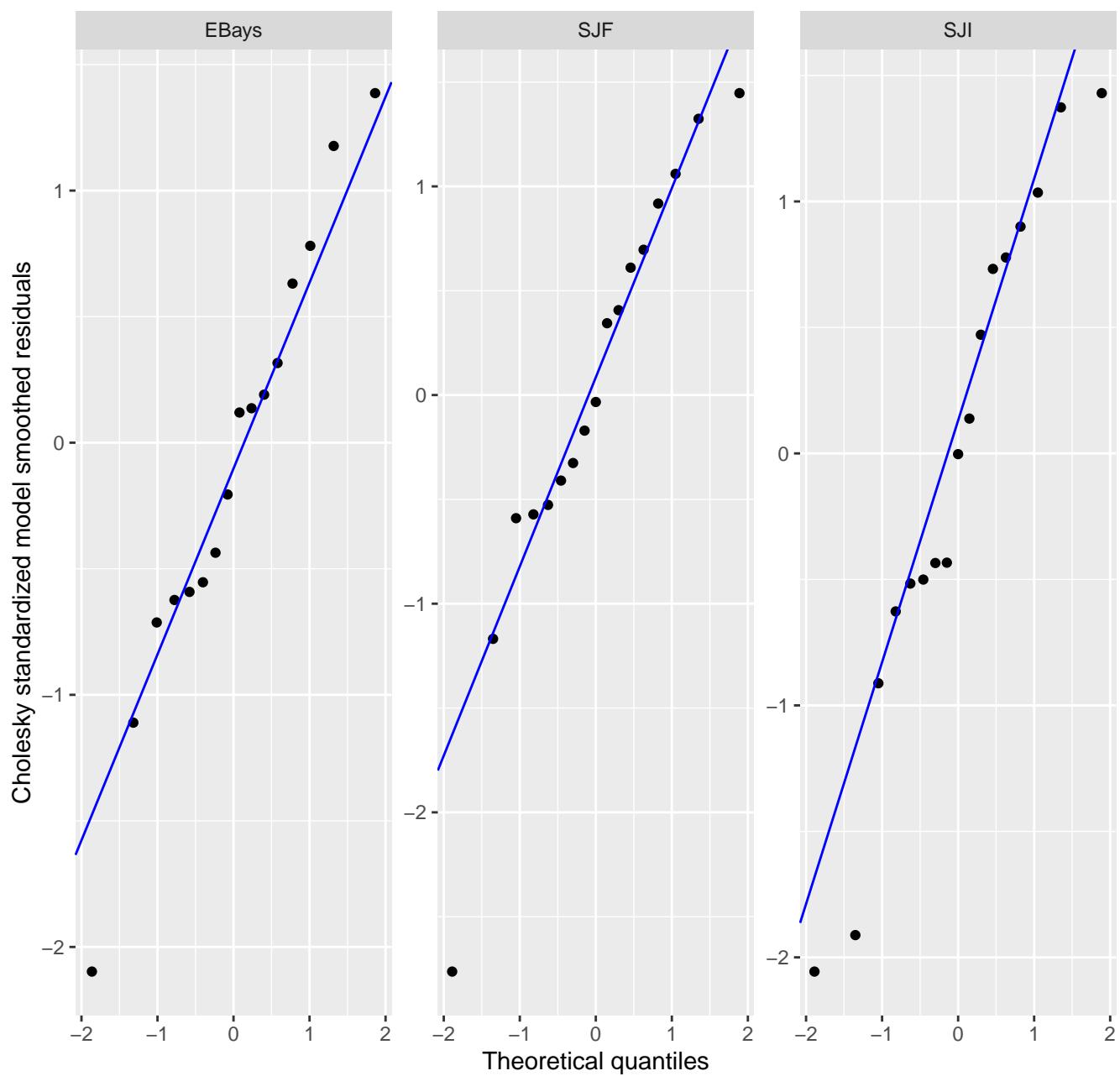
Model residuals



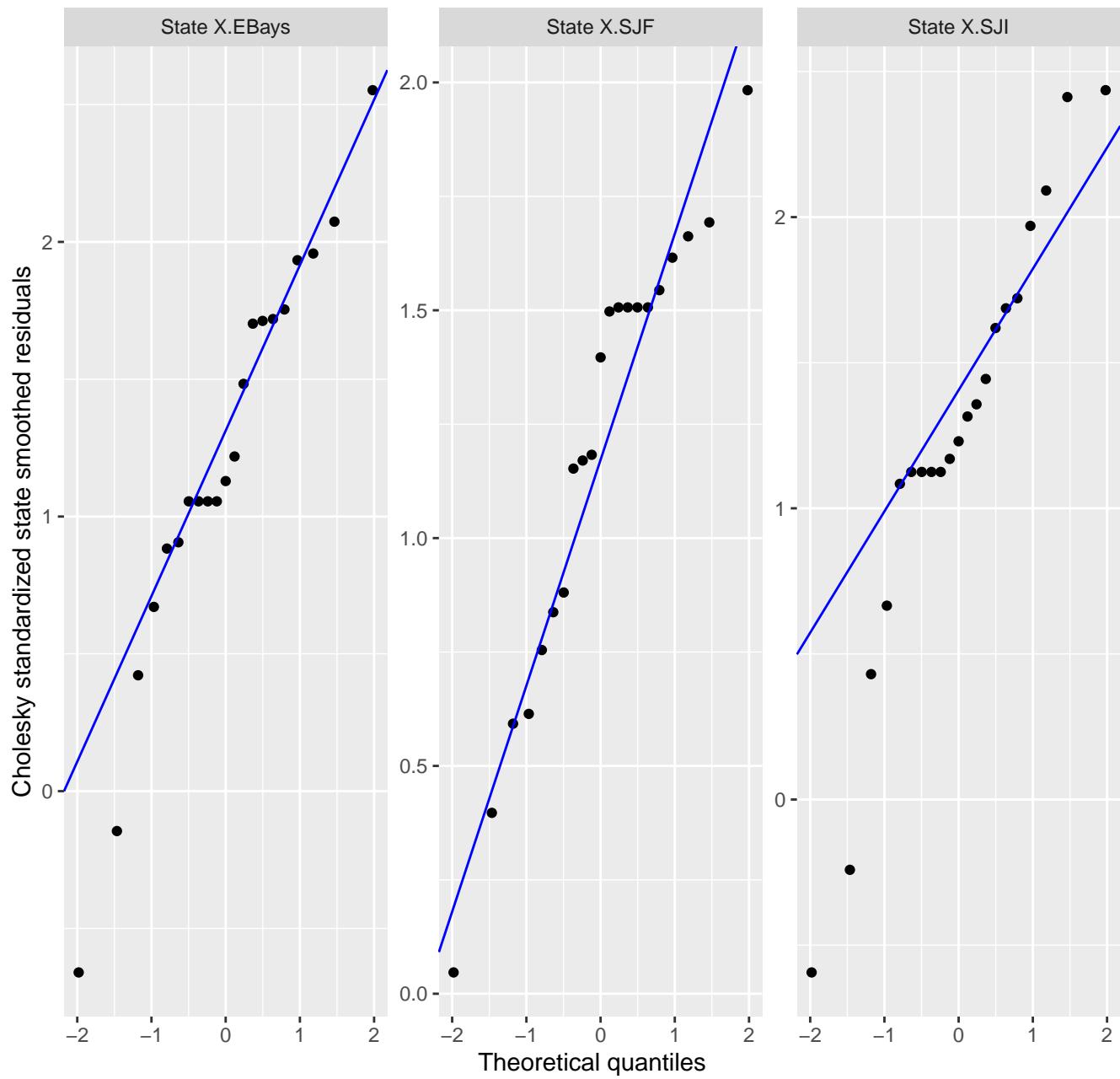
State residuals



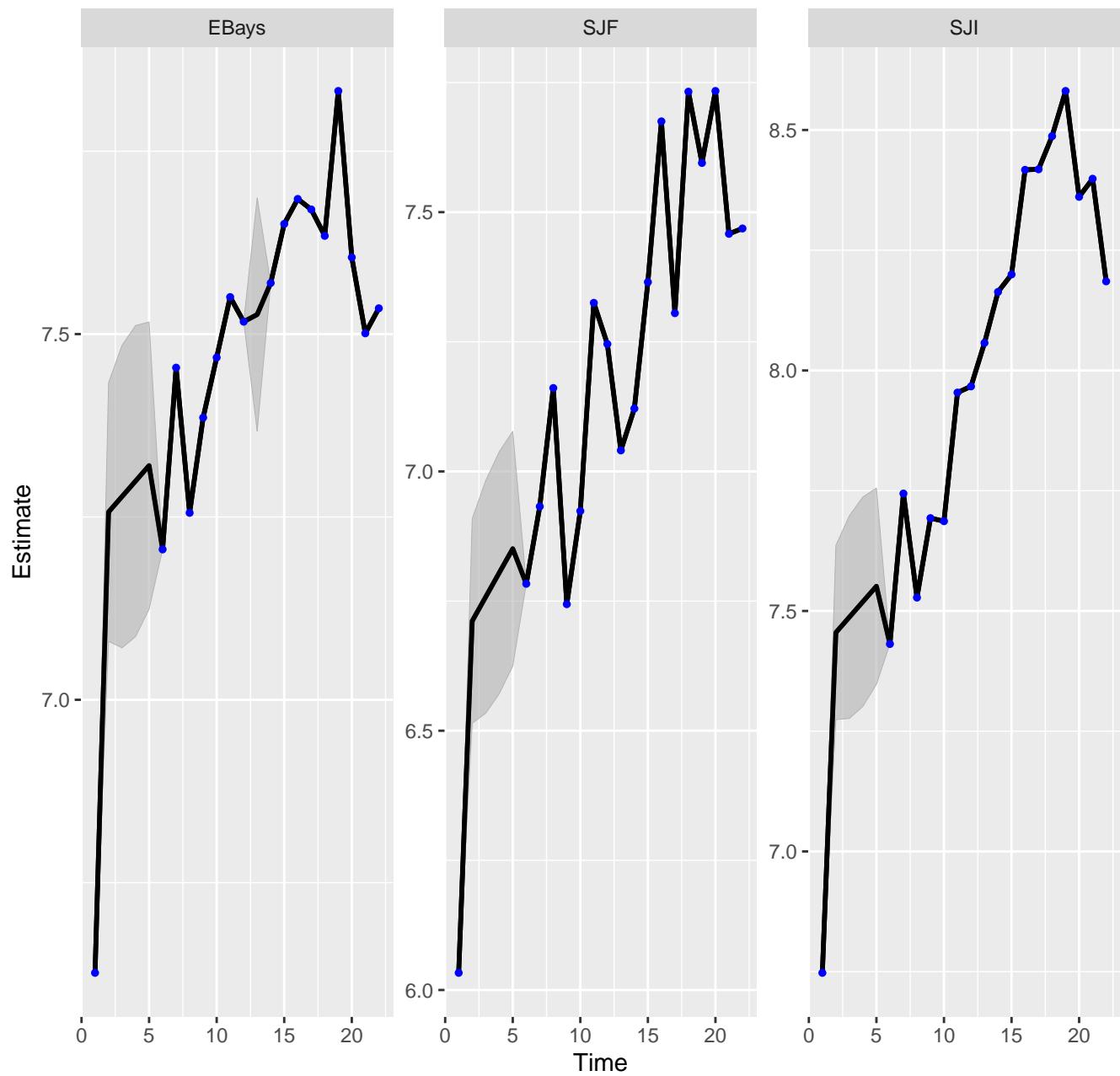
Model residuals normality test



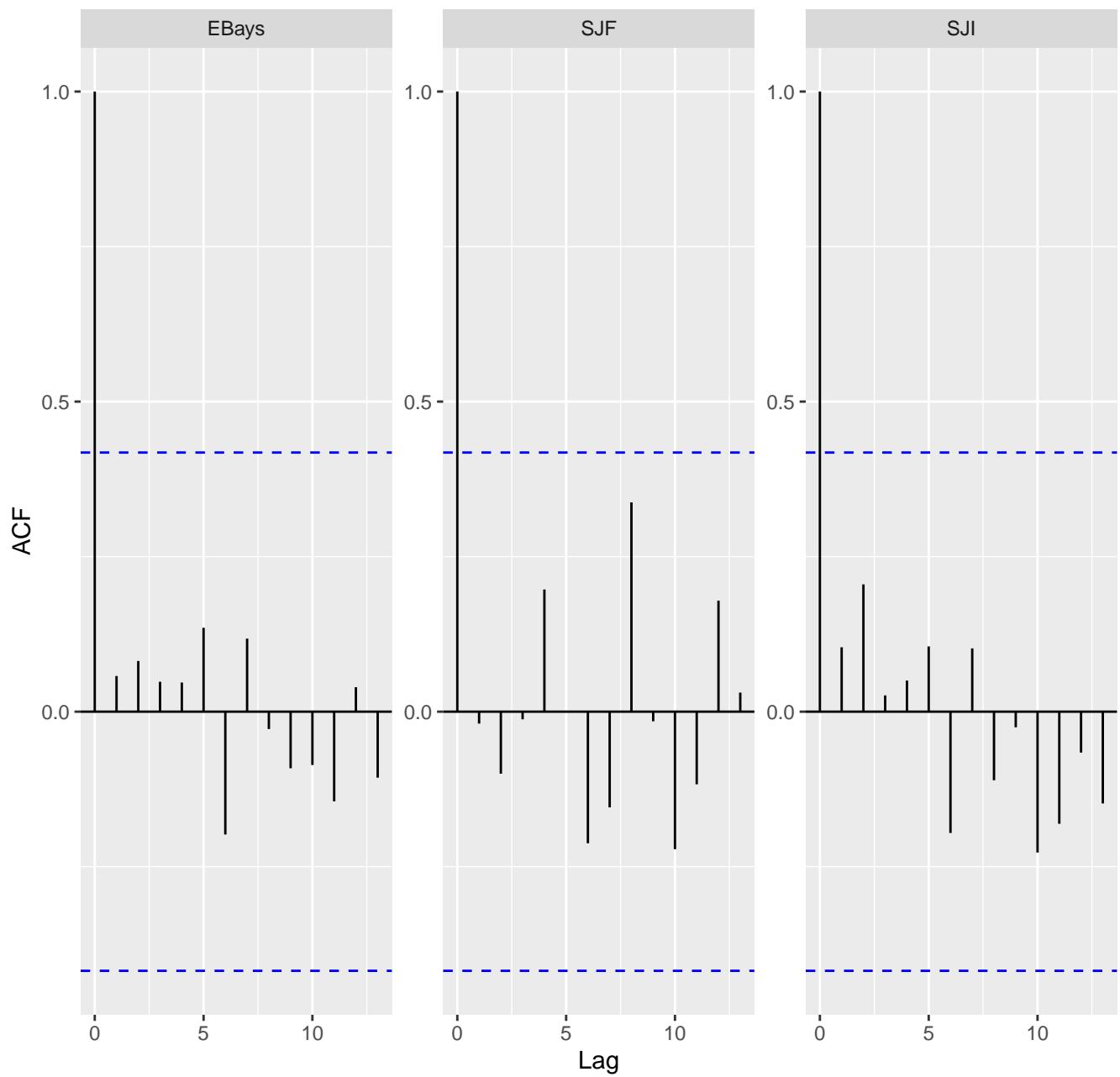
State residuals normality test

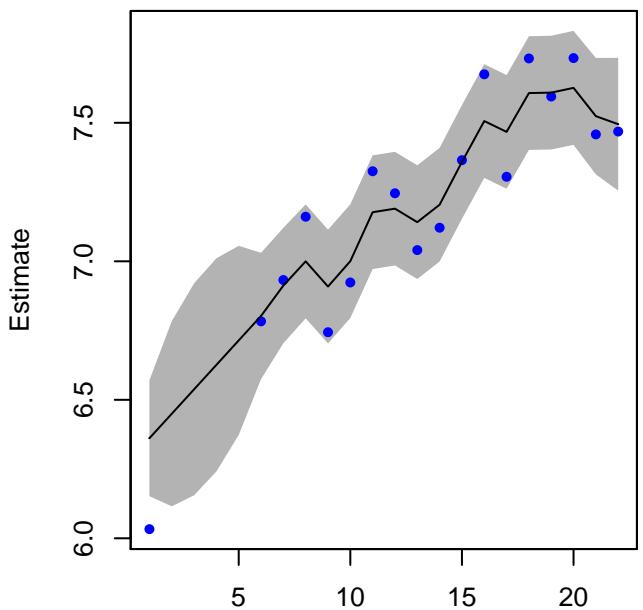
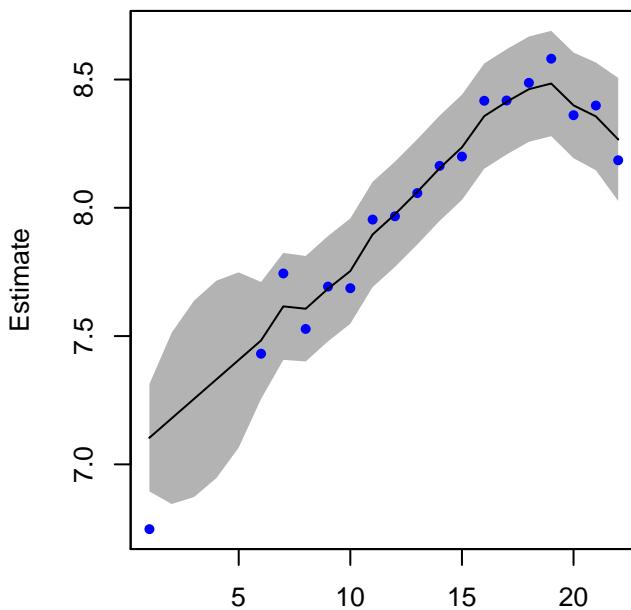
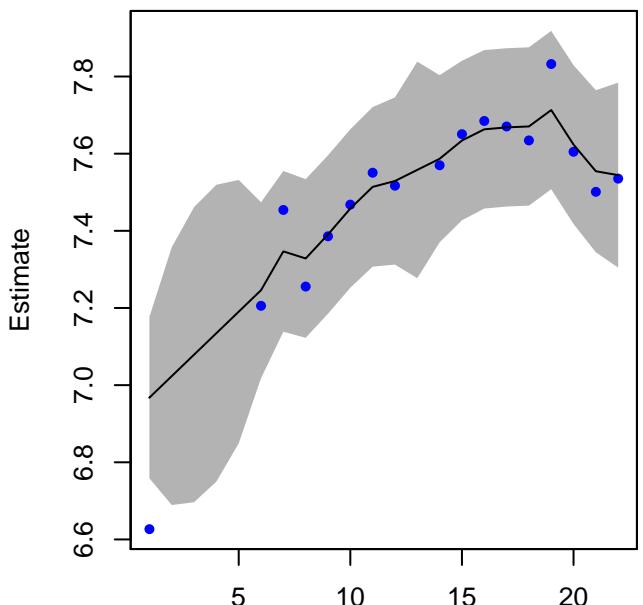


Expected value of Y conditioned on data

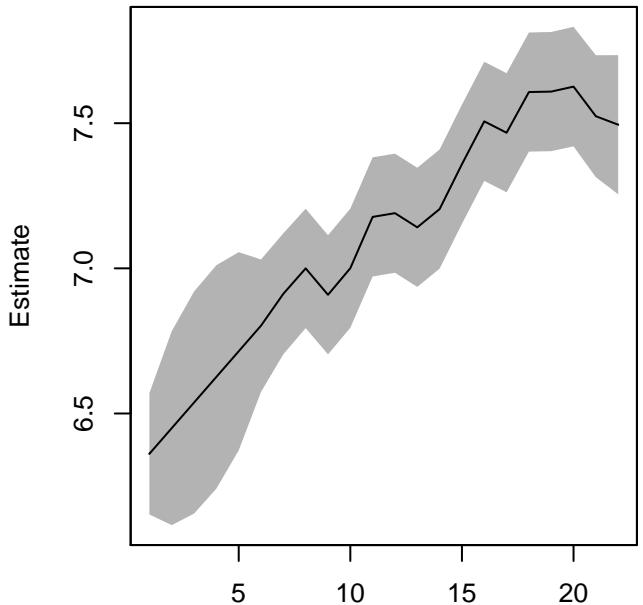


Model innovations residuals ACF

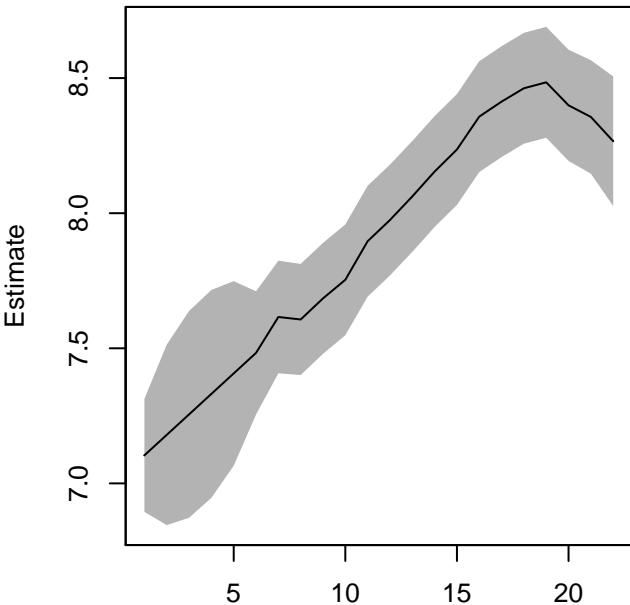


SJF + CI**SJI + CI****EBays + CI**

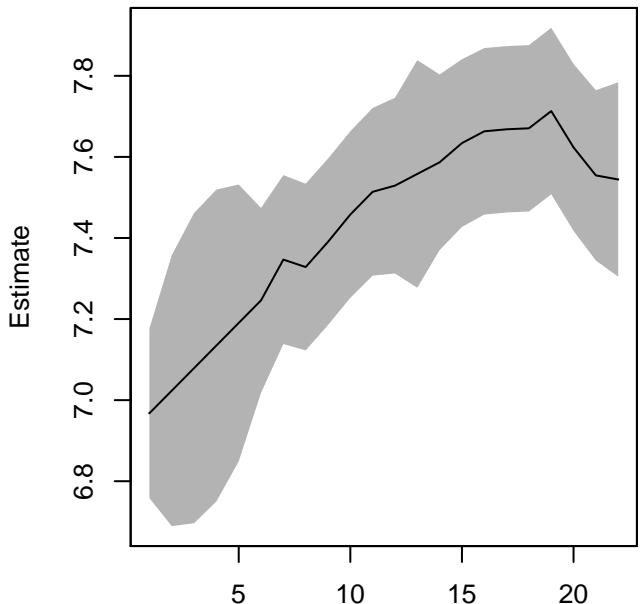
State X.SJF



State X.SJI

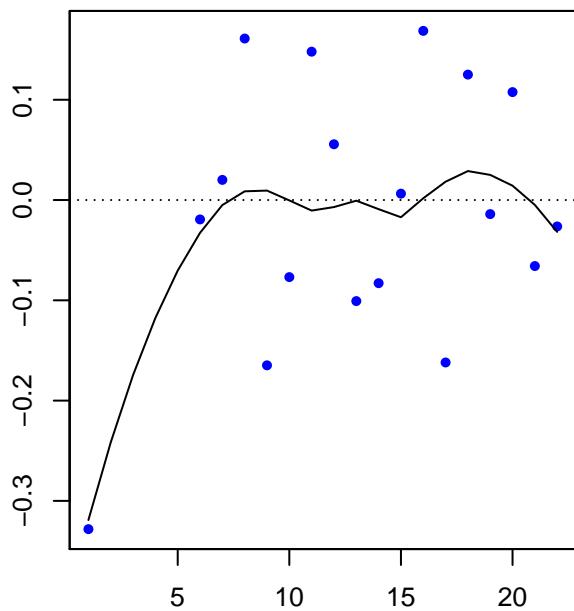


State X.EBays

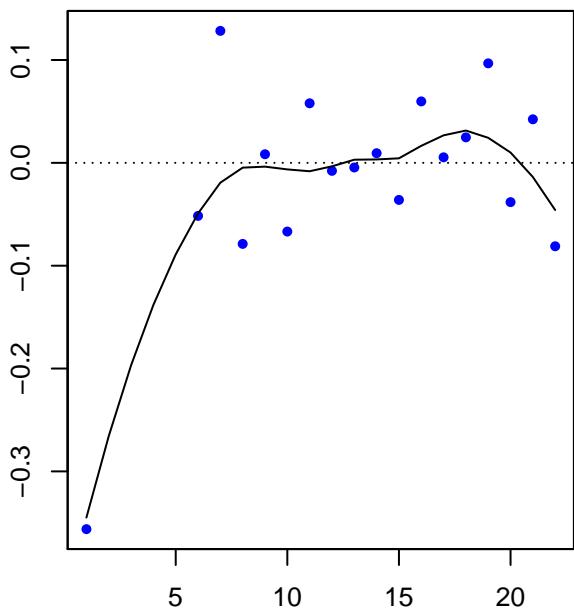


Observation residuals, $y - E[y]$

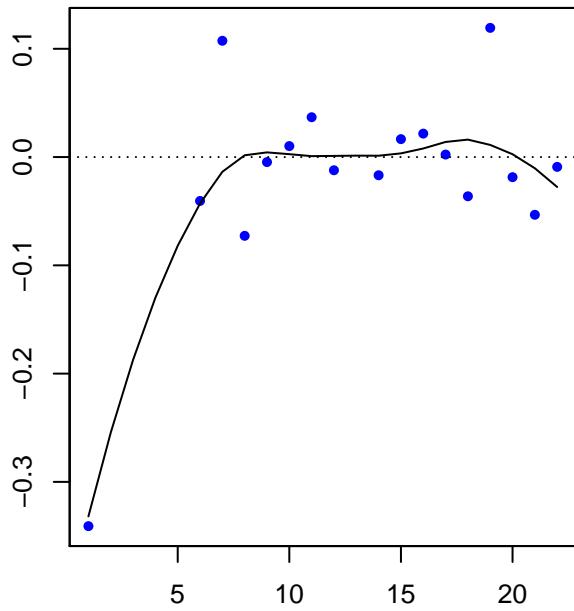
SJF

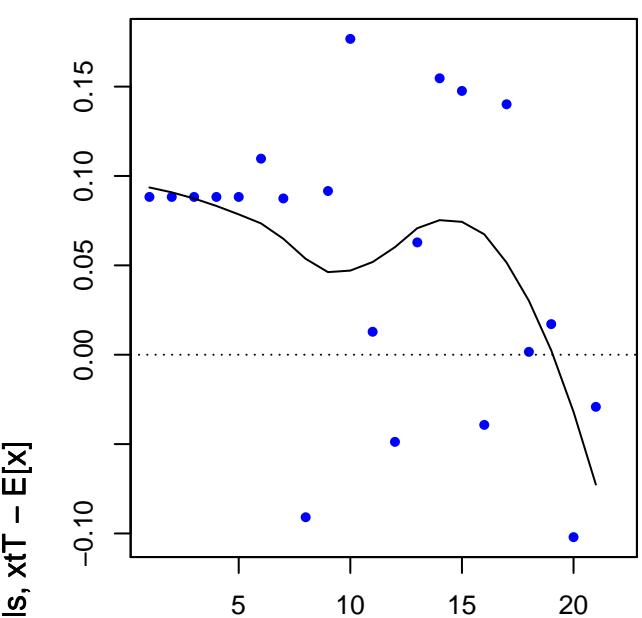
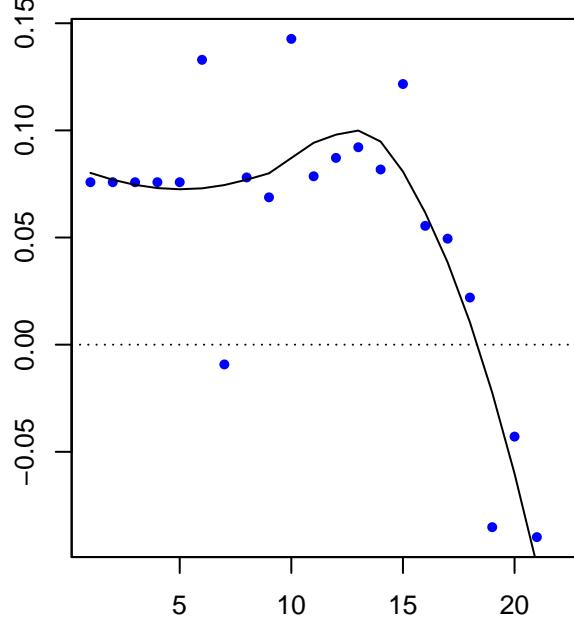
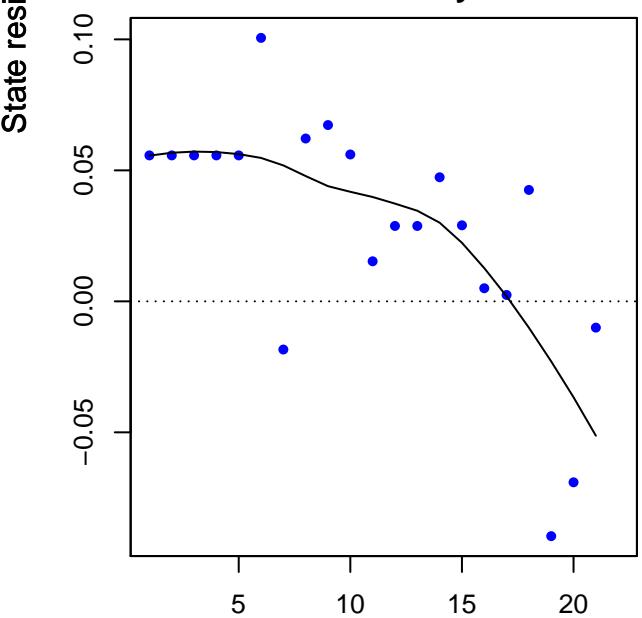


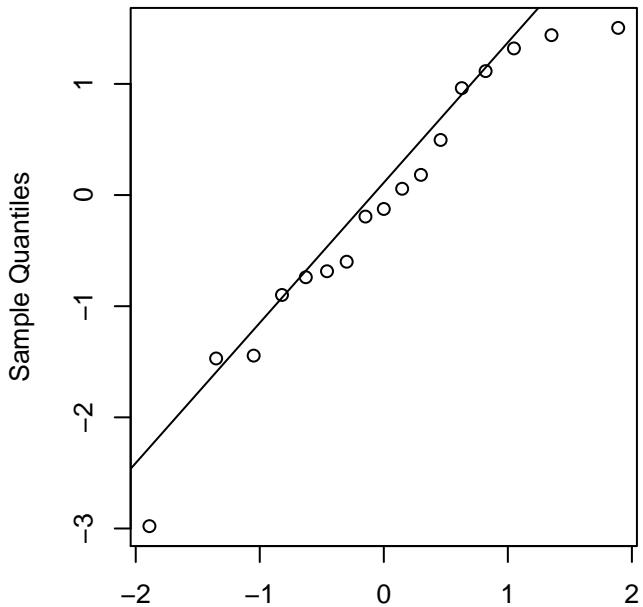
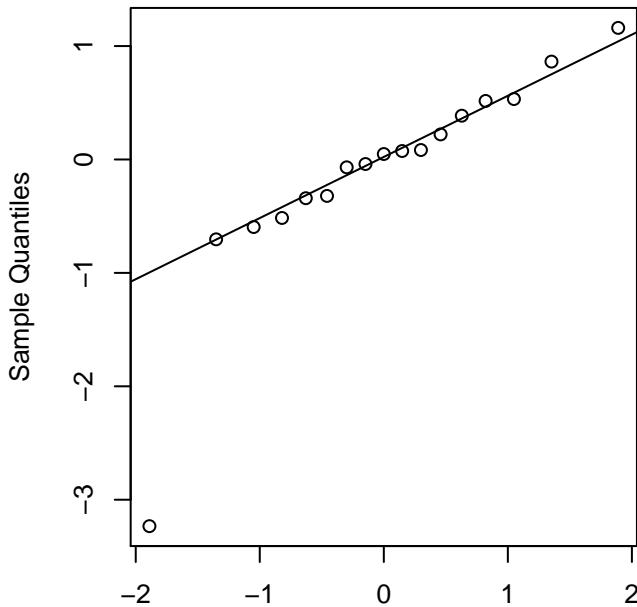
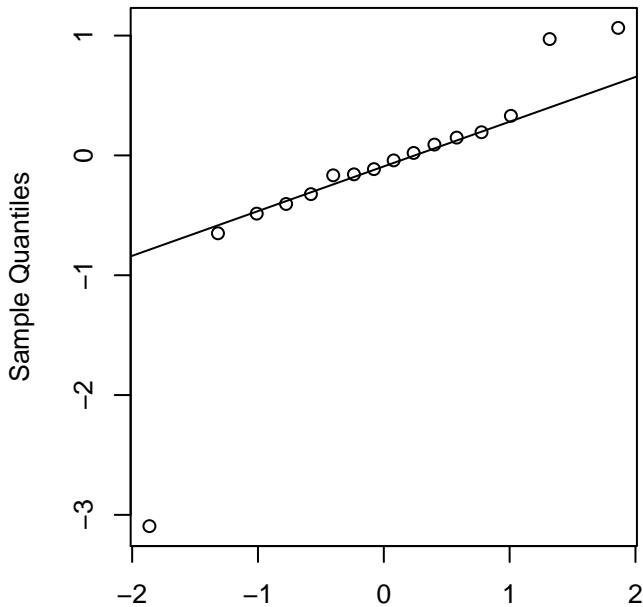
SJI

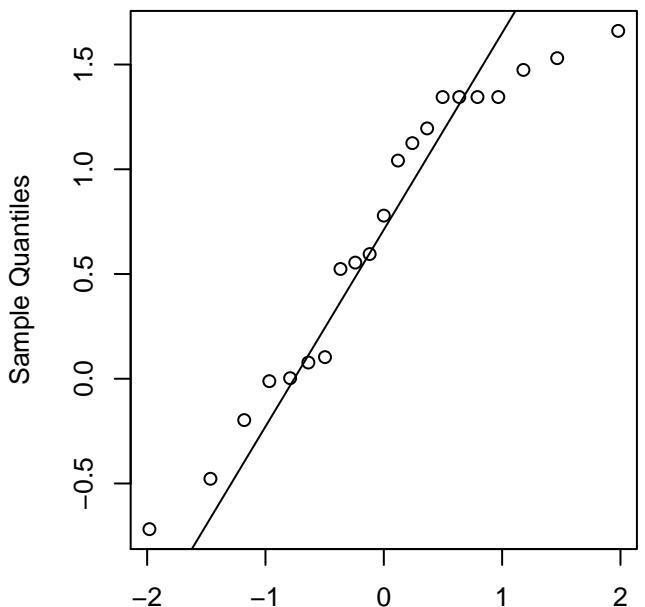
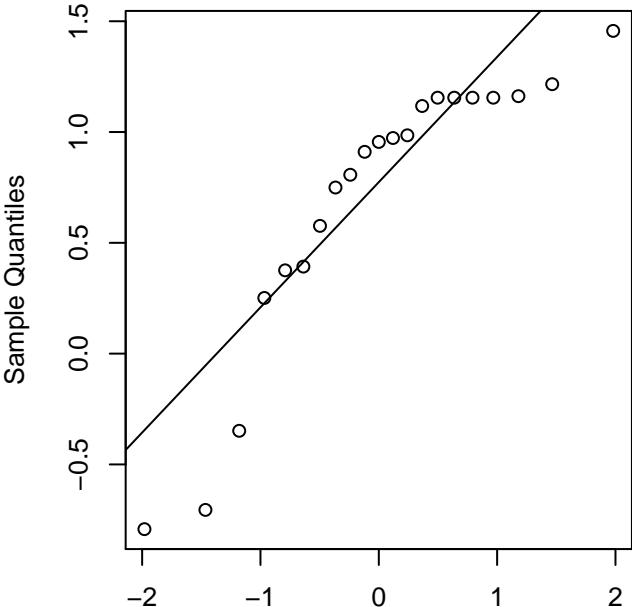
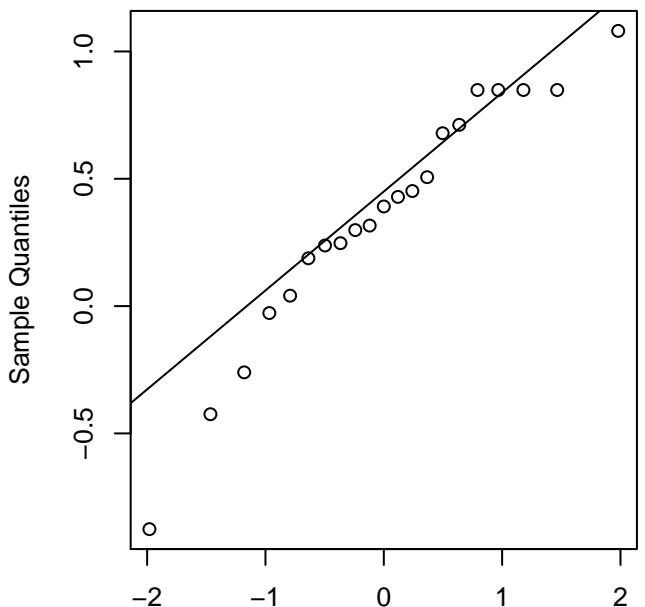


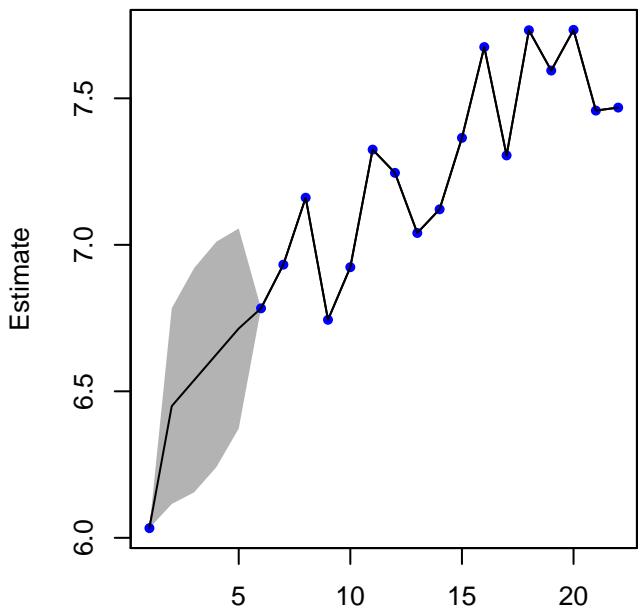
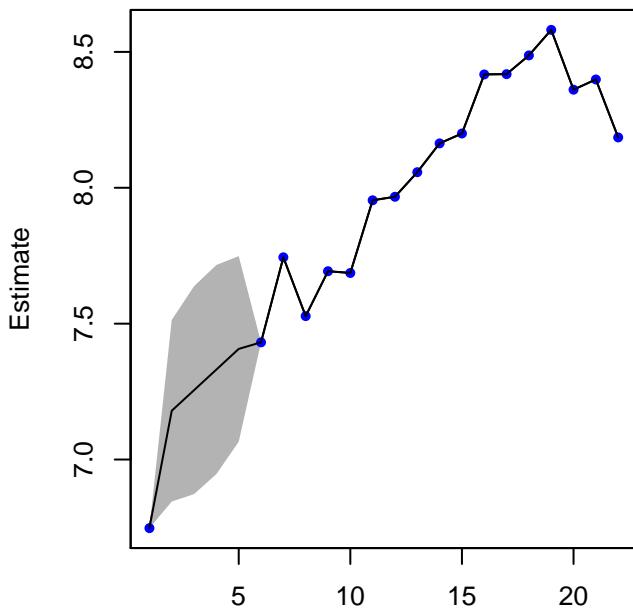
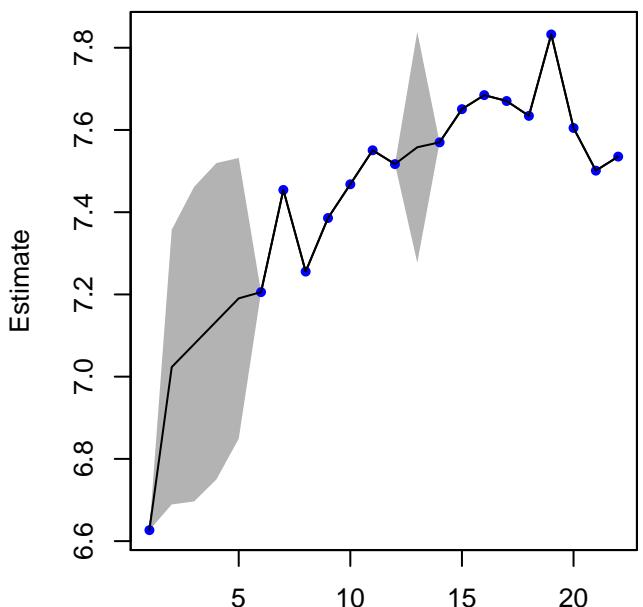
EBays

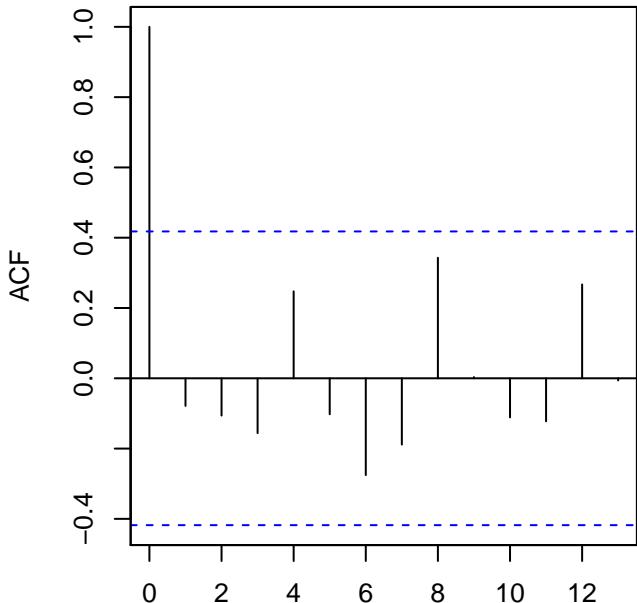
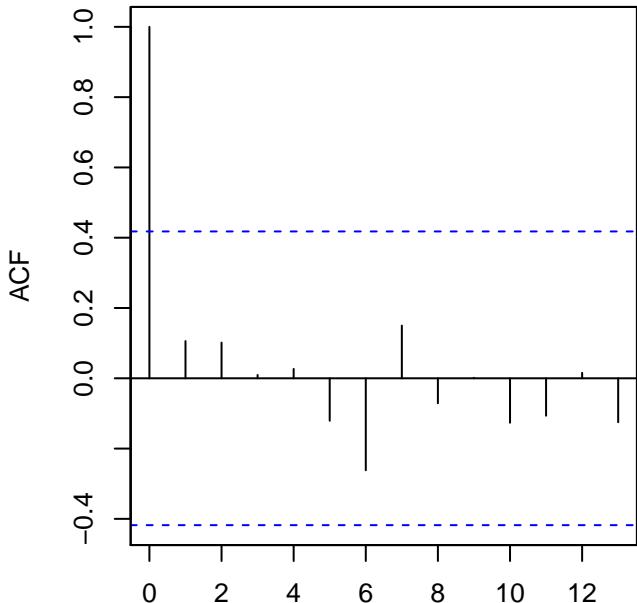
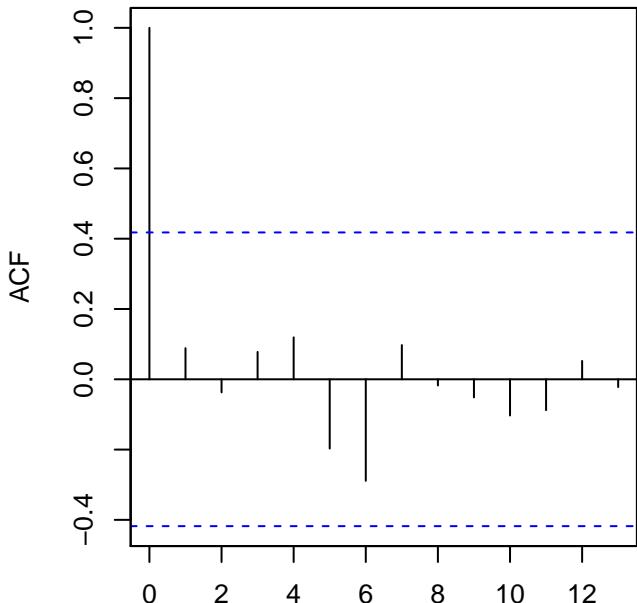


State X.SJF**State X.SJI****State X.EBays**

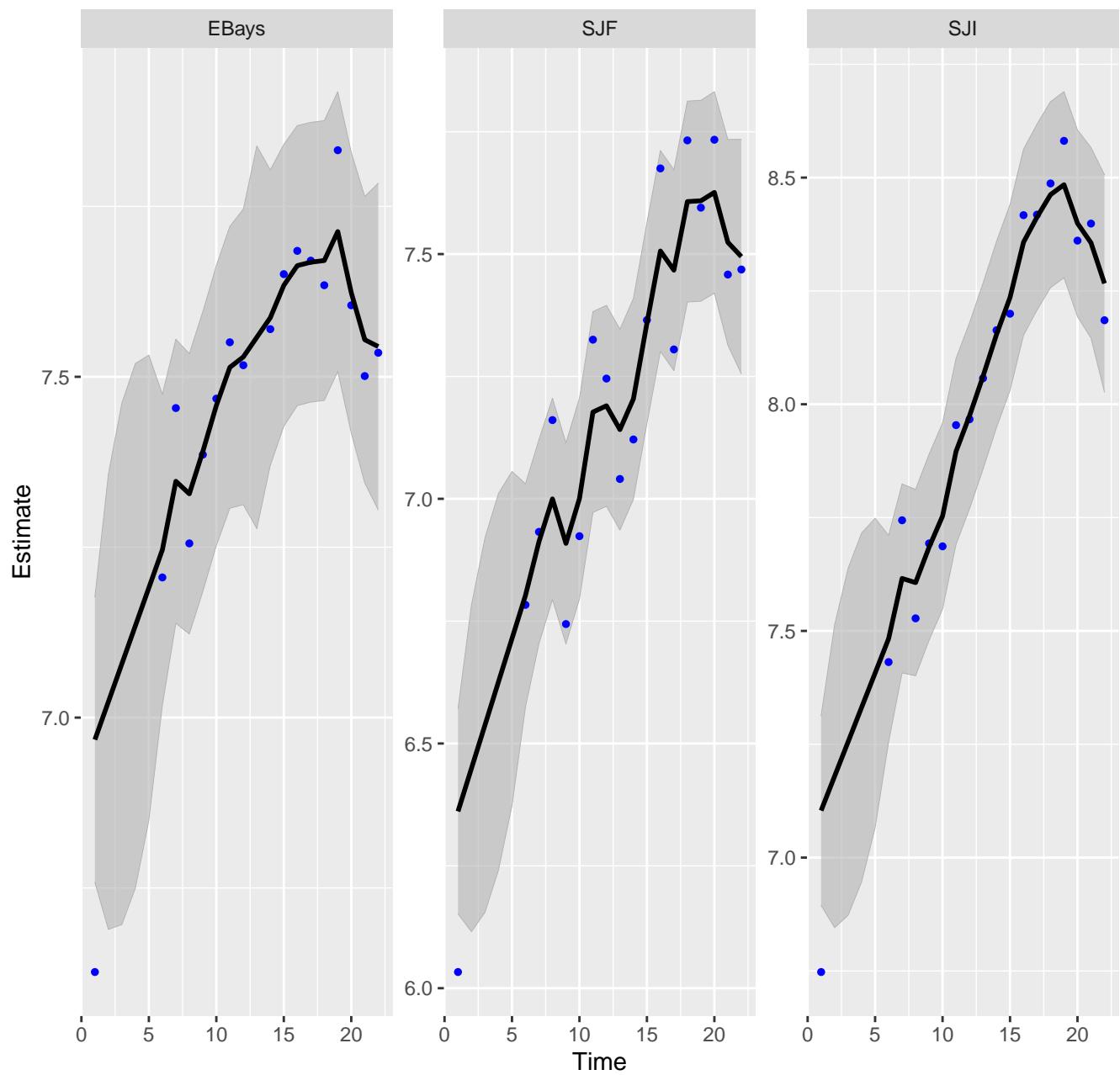
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

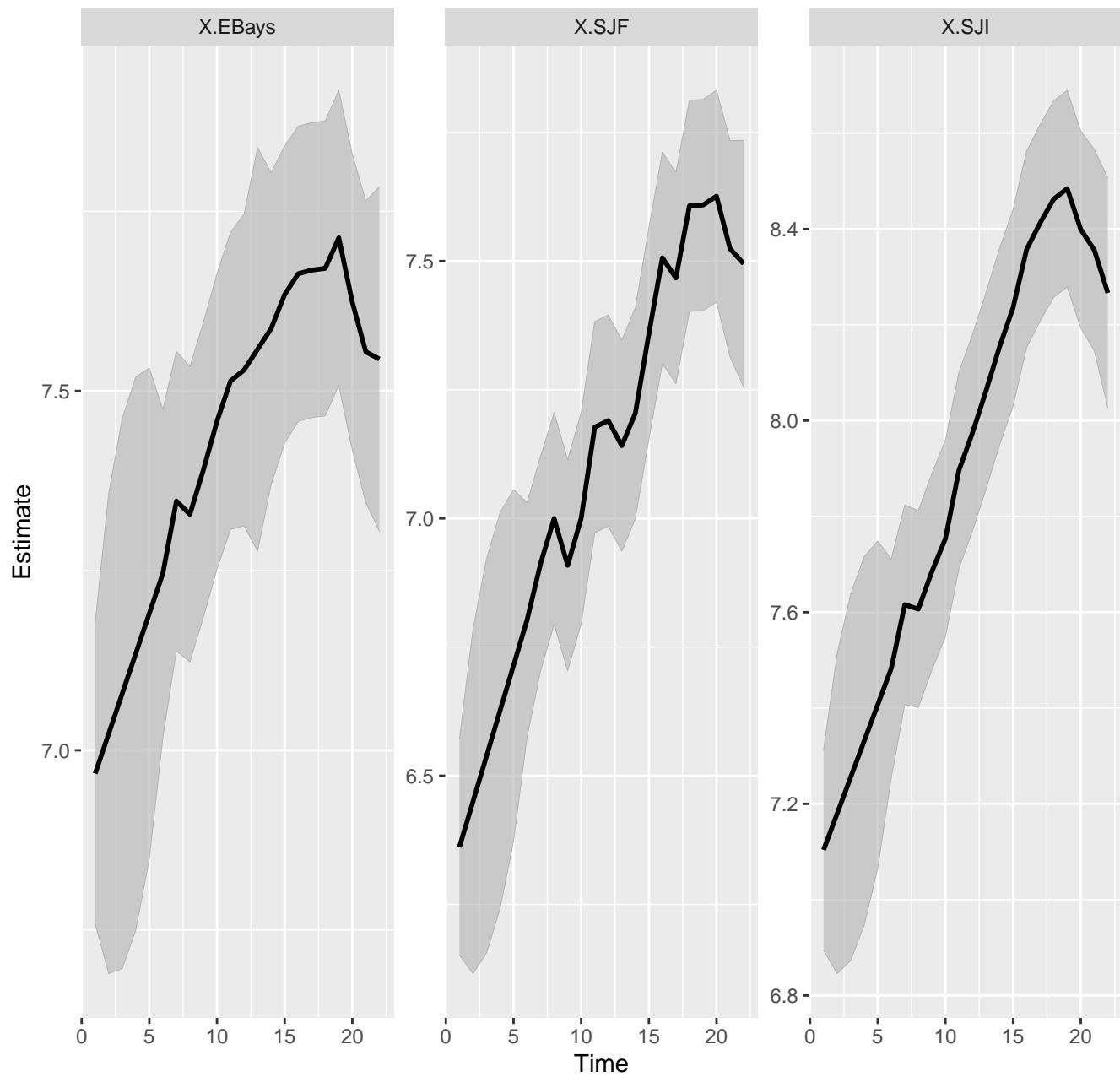
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

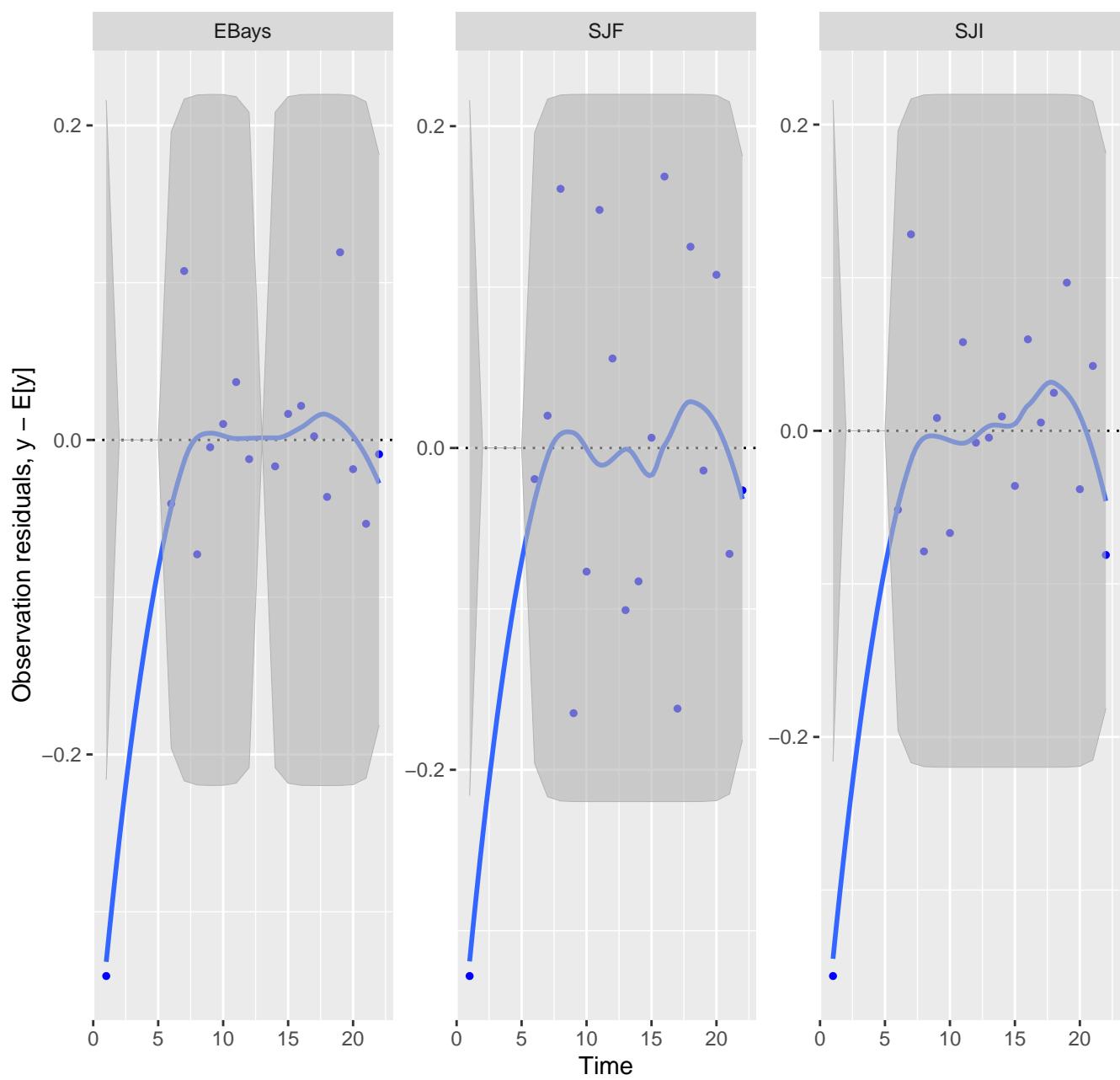
Model fitted Y + CI



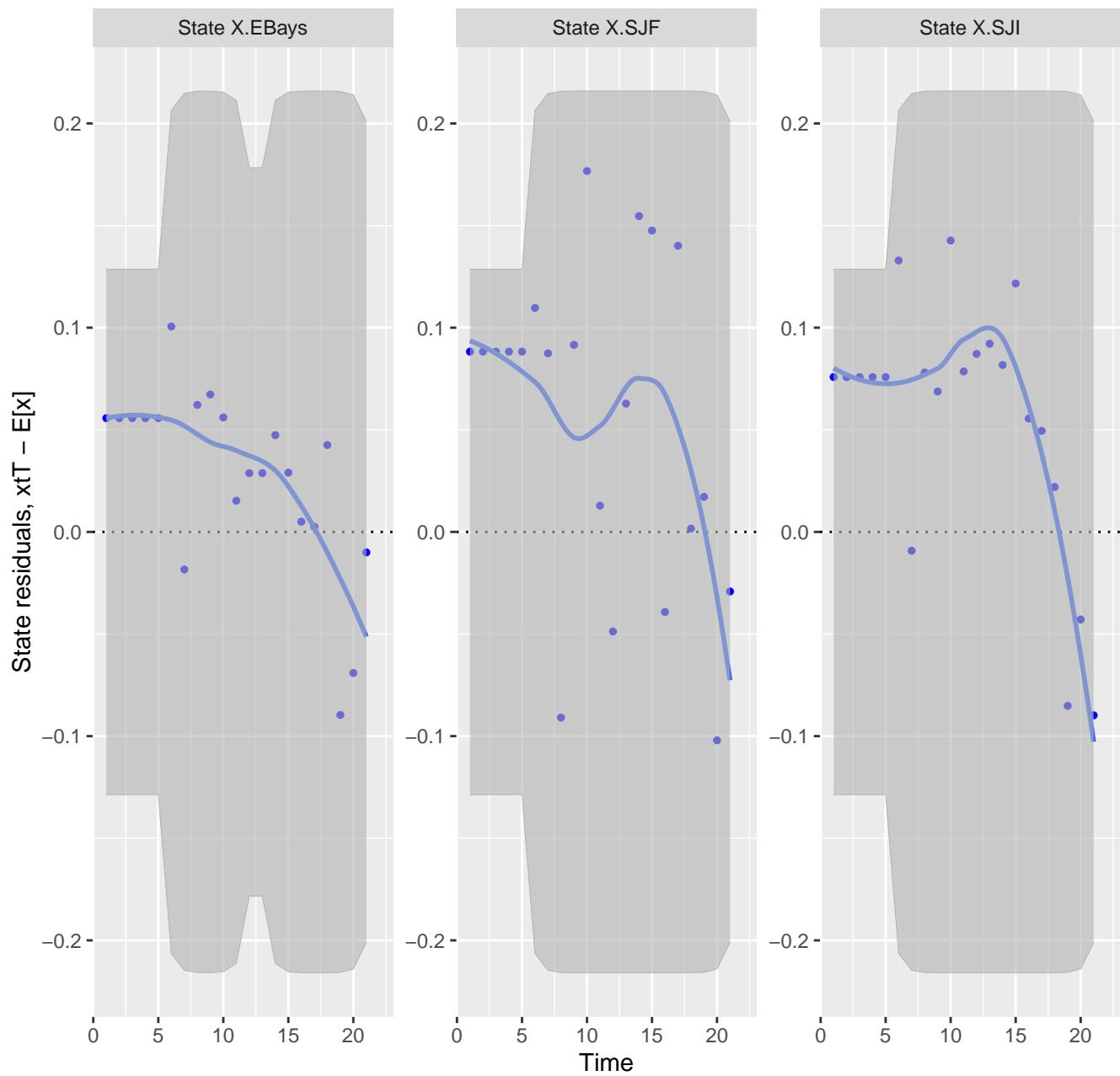
States



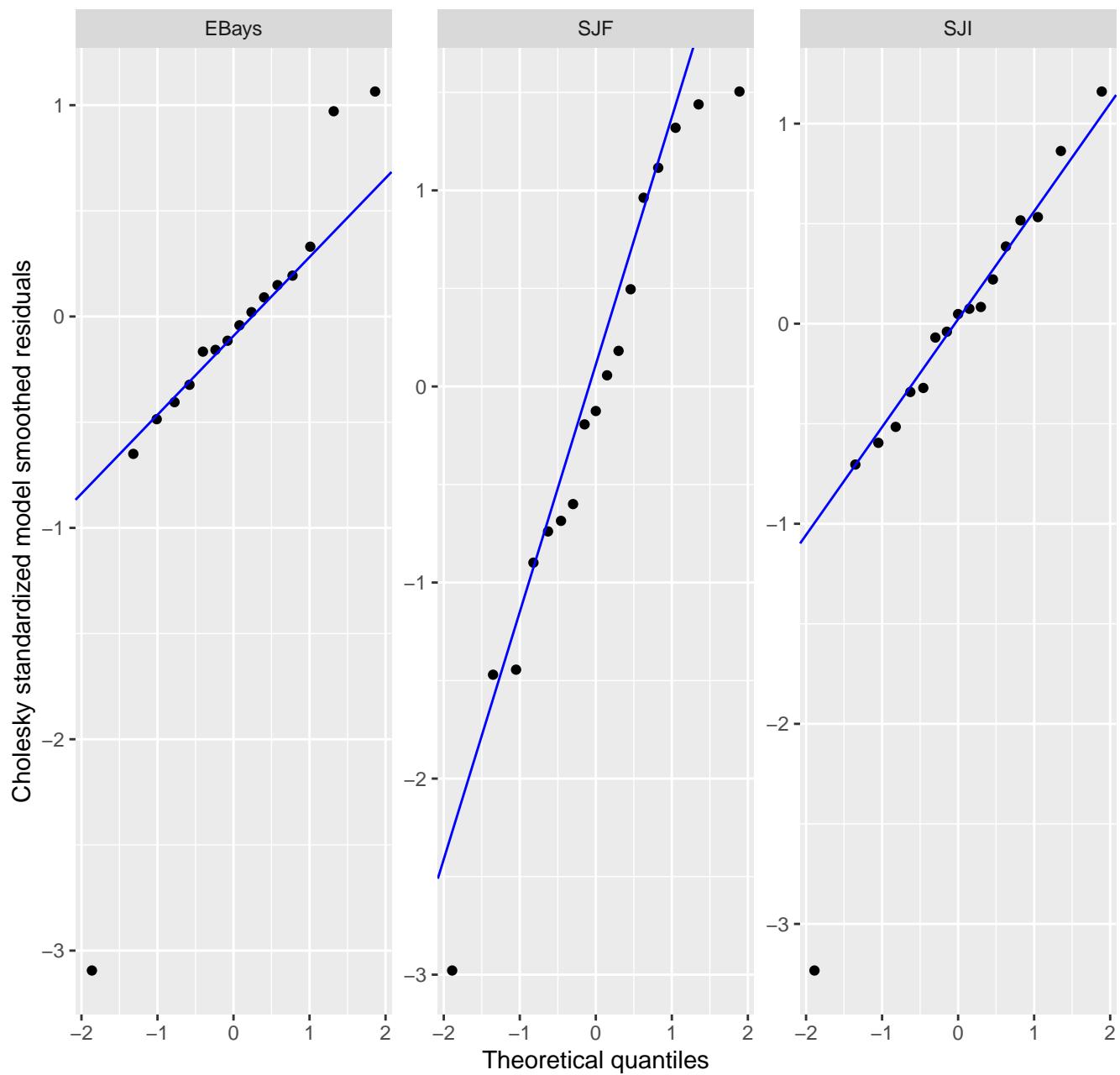
Model residuals



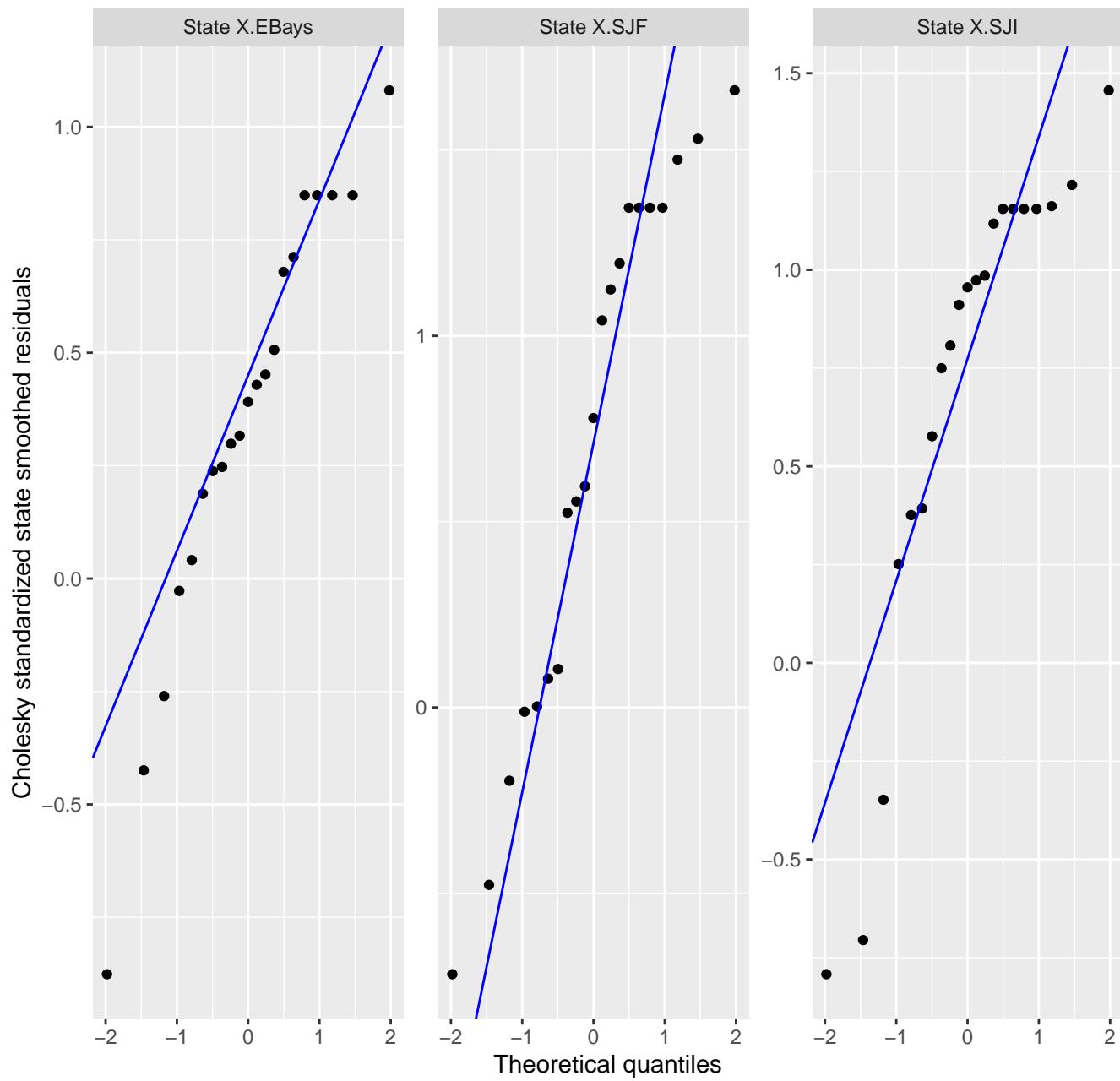
State residuals



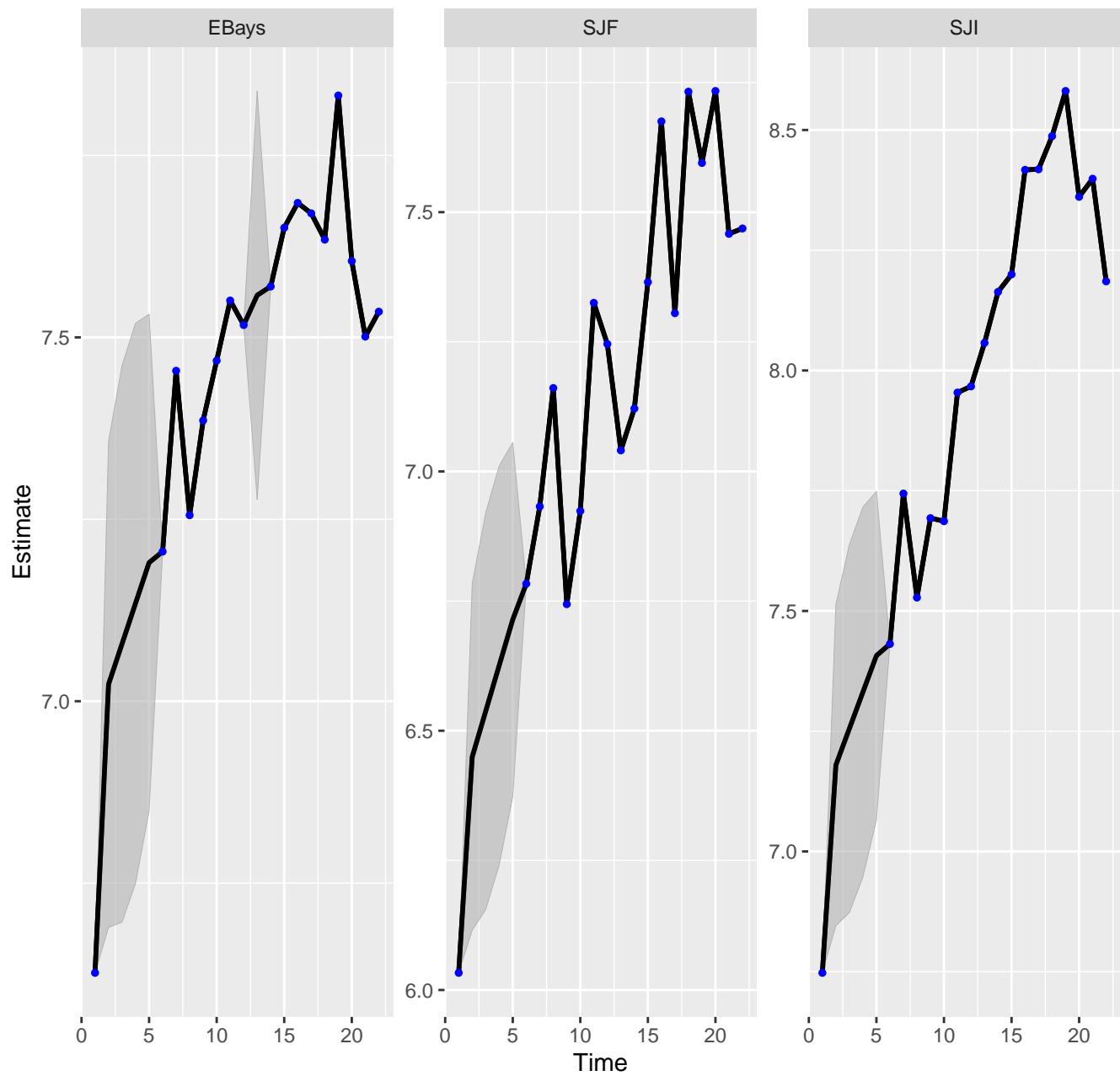
Model residuals normality test



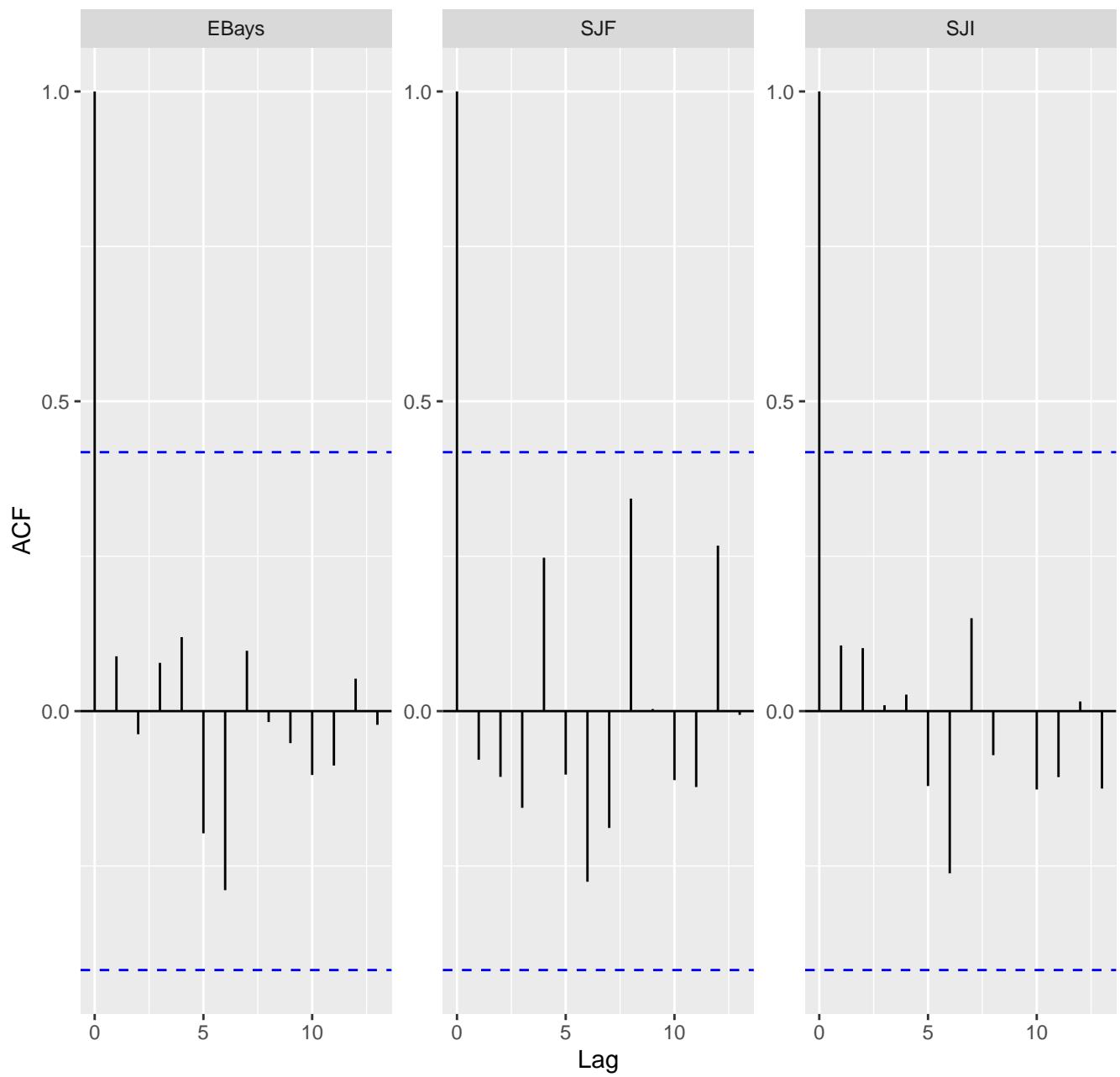
State residuals normality test

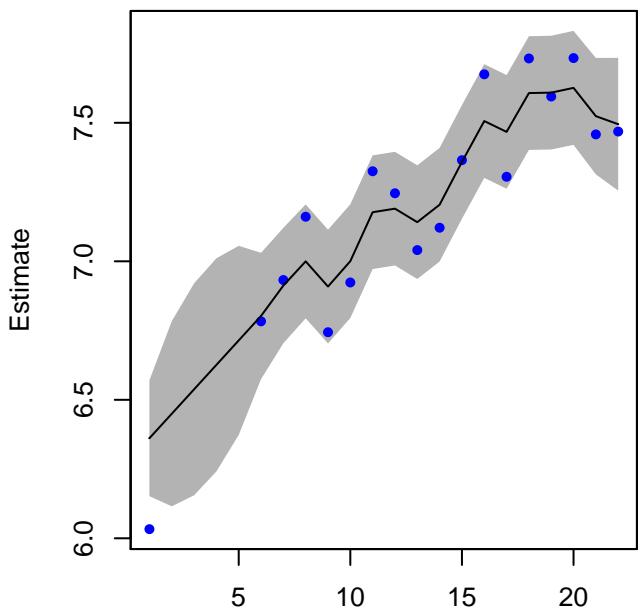
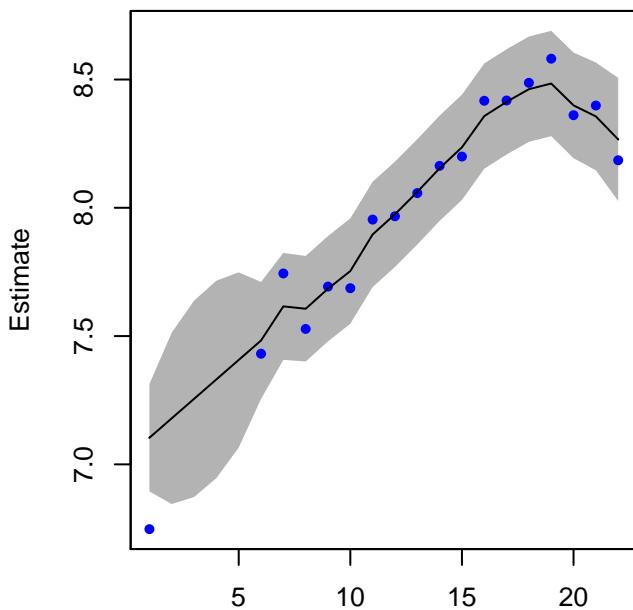
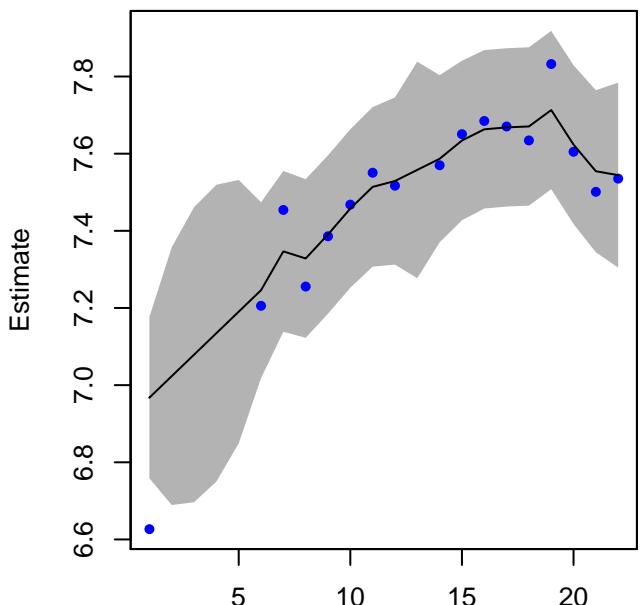


Expected value of Y conditioned on data

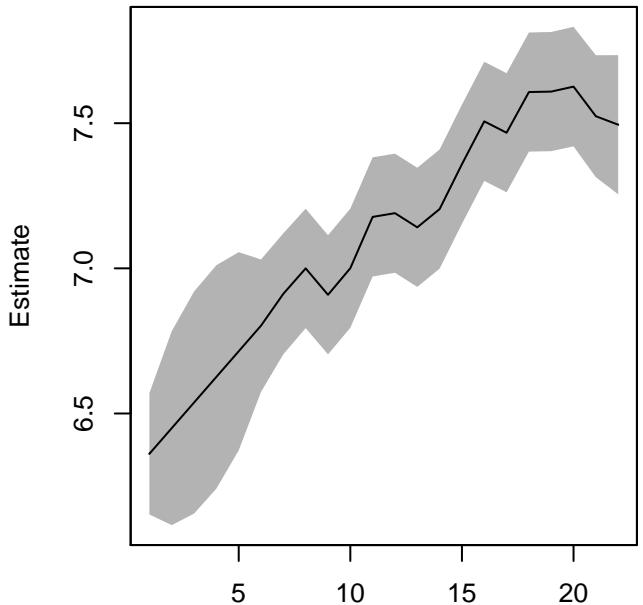


Model innovations residuals ACF

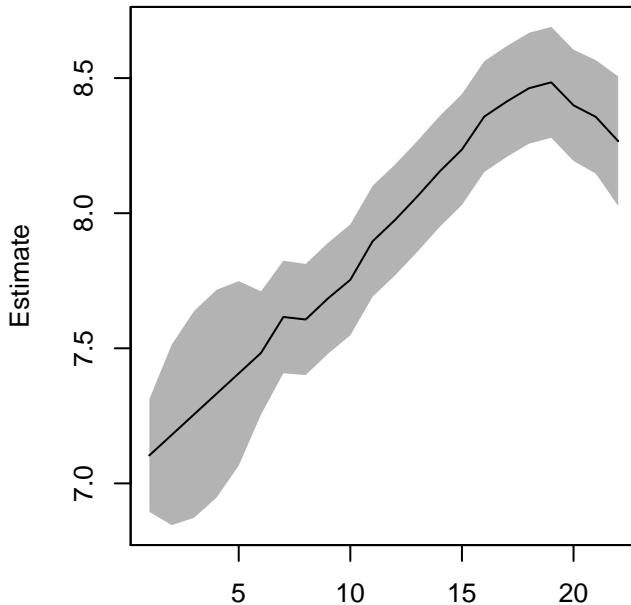


SJF + CI**SJI + CI****EBays + CI**

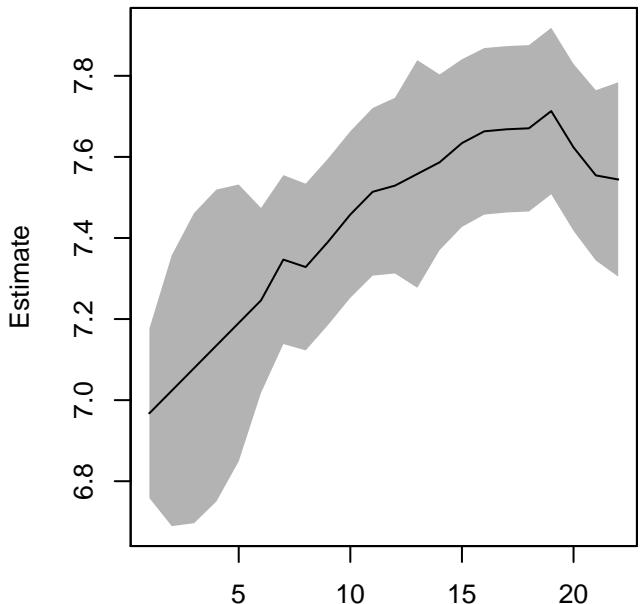
State X.SJF



State X.SJI

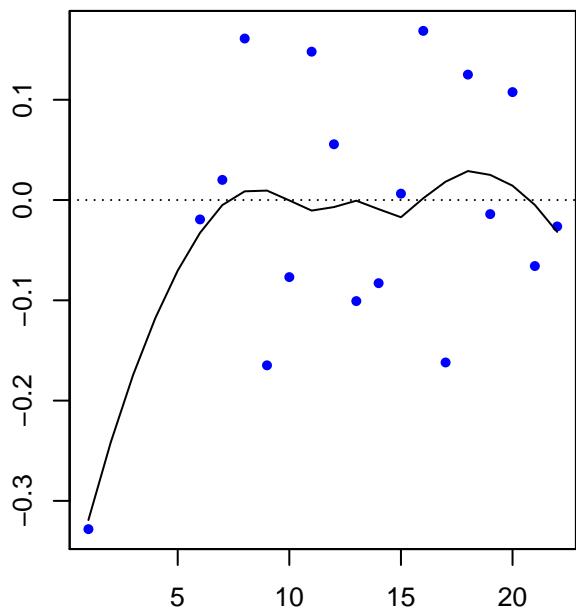


State X.EBays

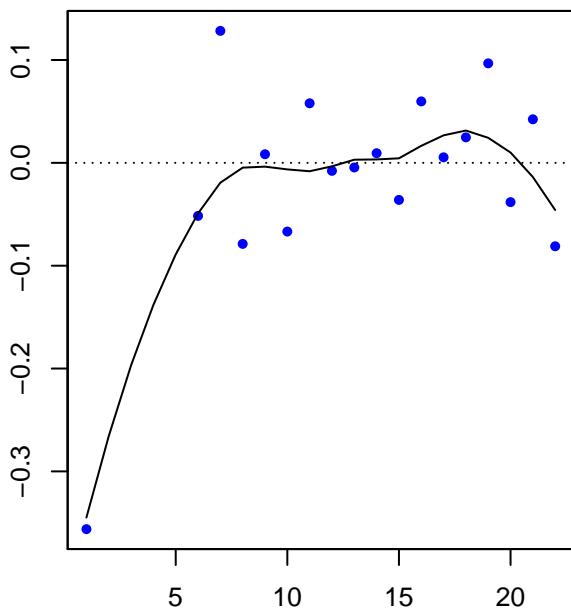


Observation residuals, $y - E[y]$

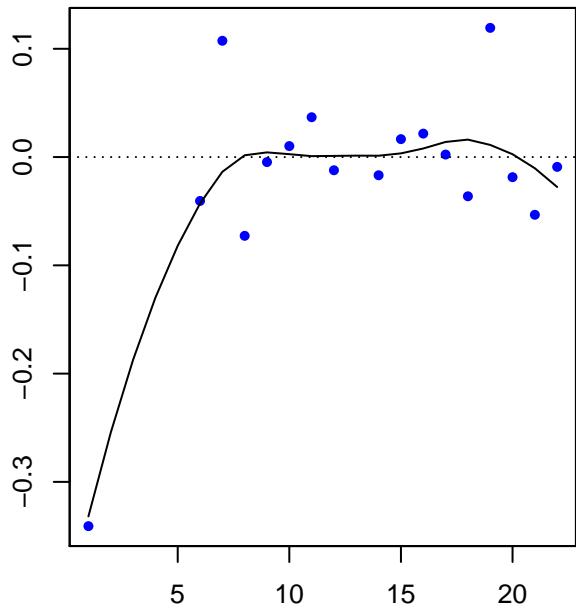
SJF

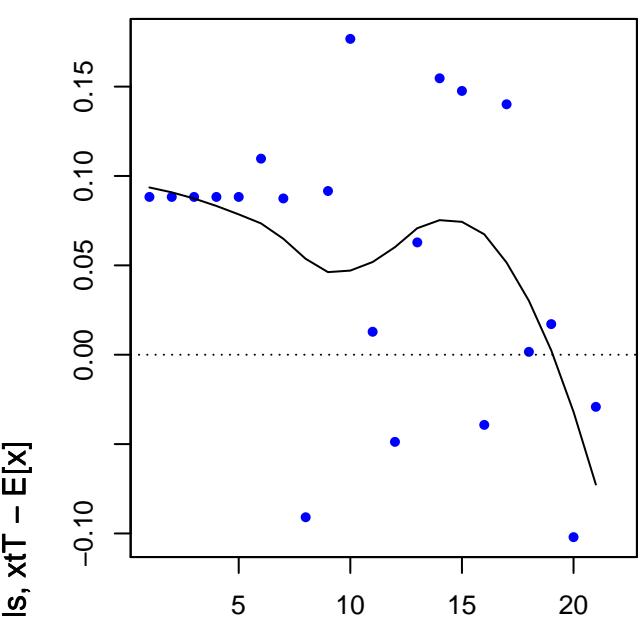
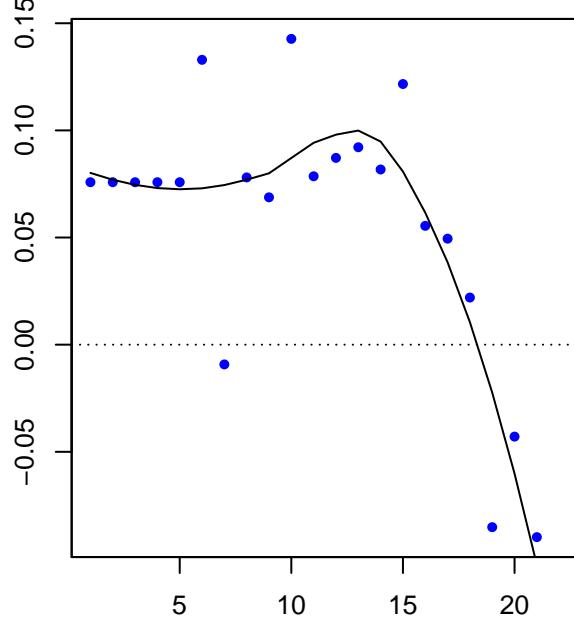
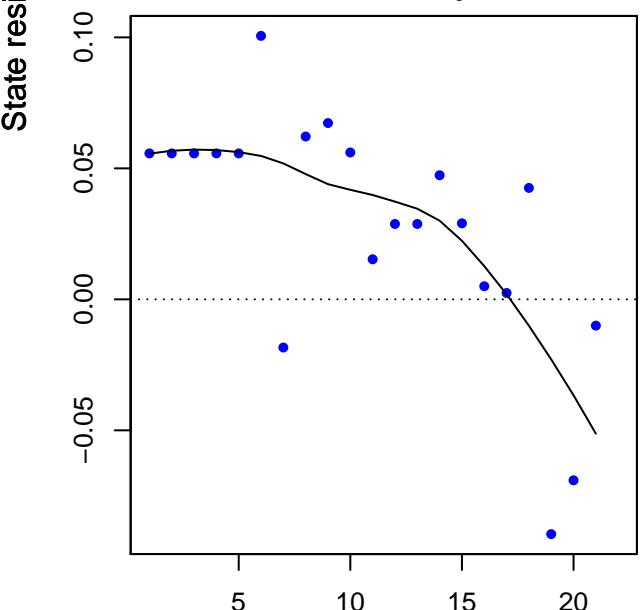


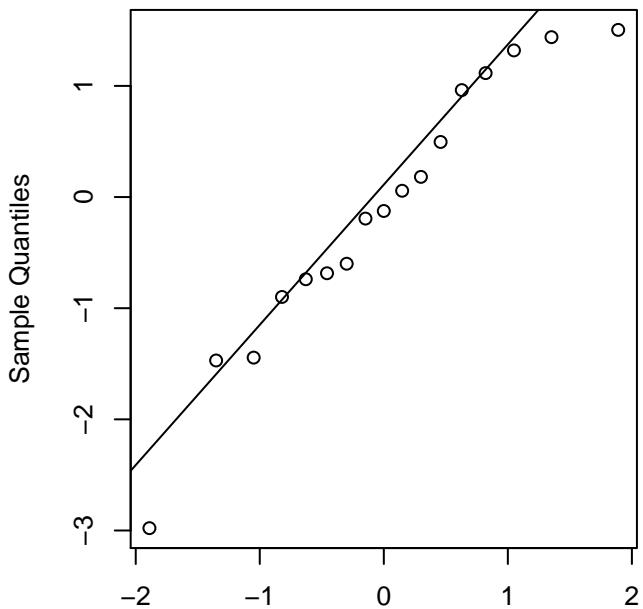
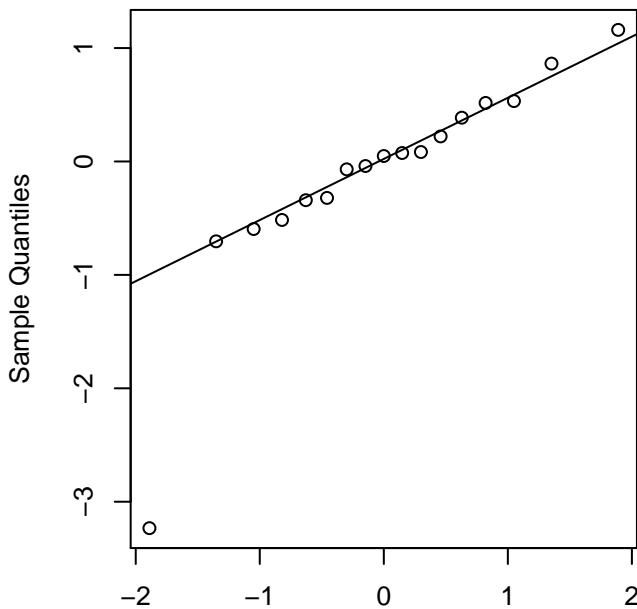
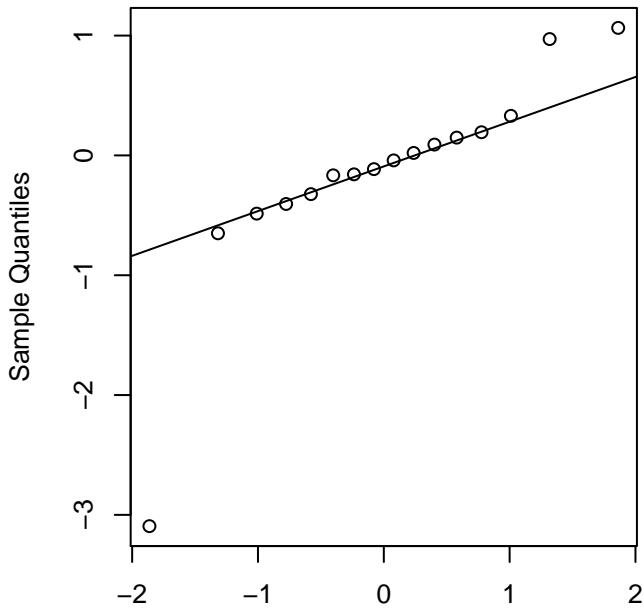
SJI

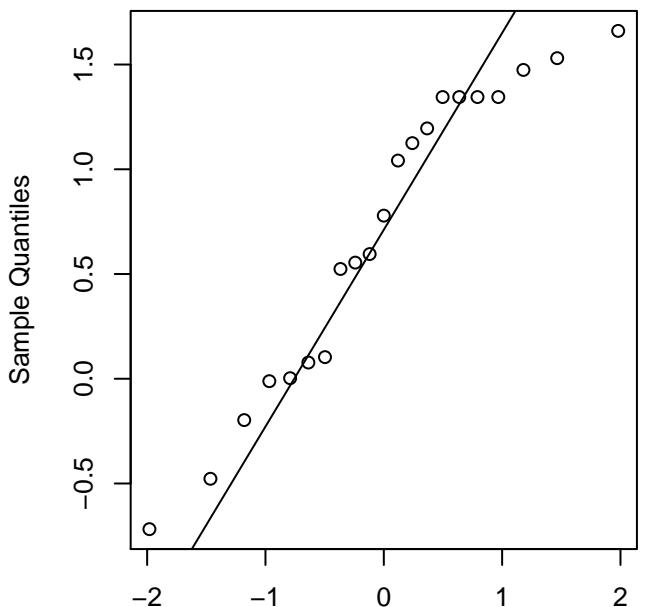
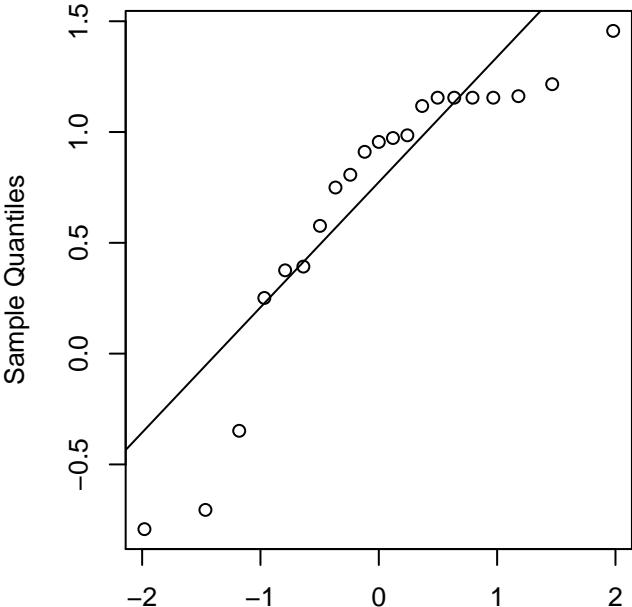
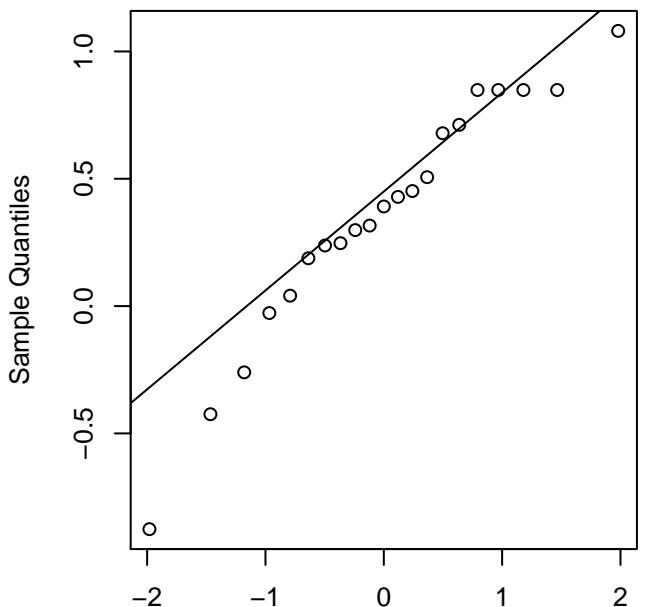


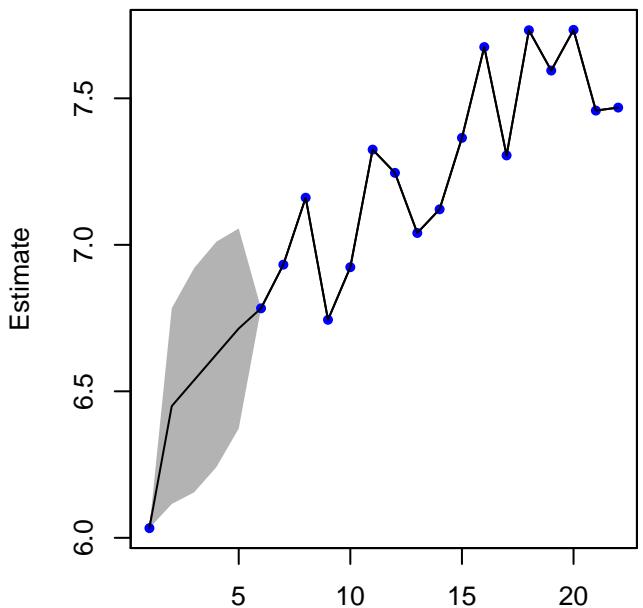
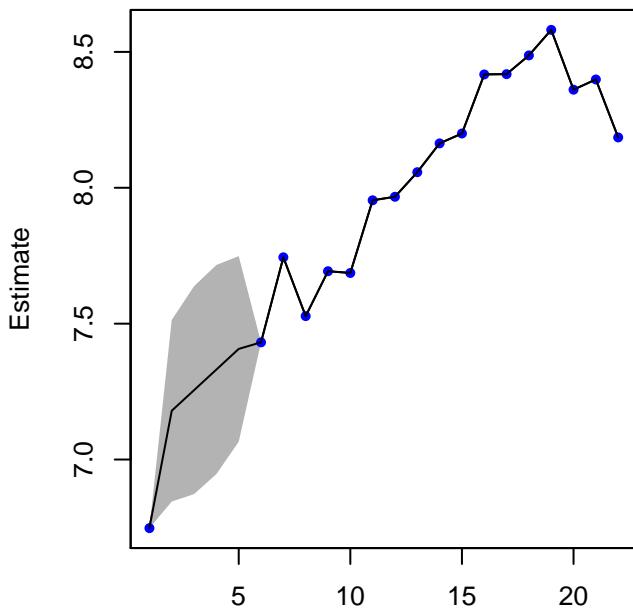
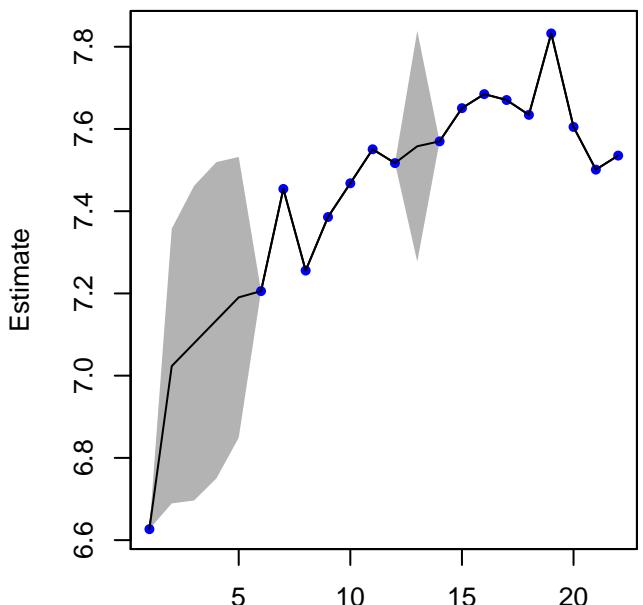
EBays

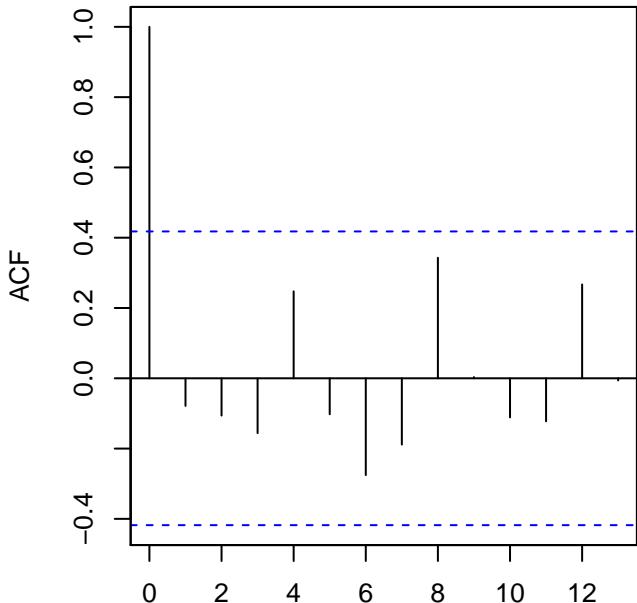
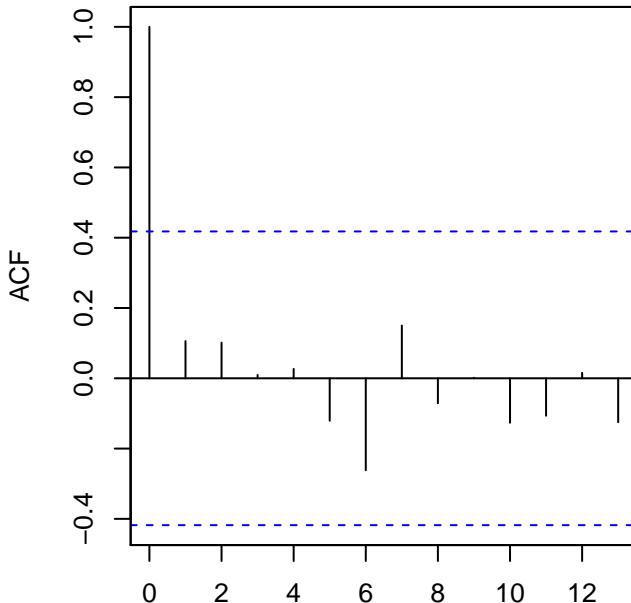
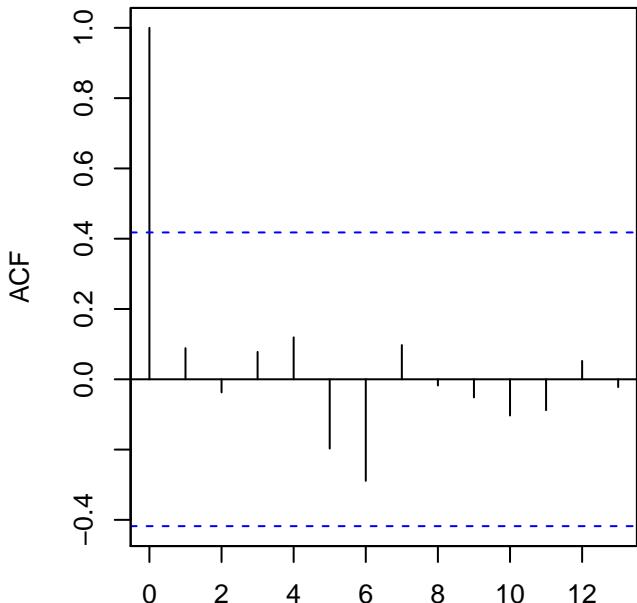


State X.SJF**State X.SJI****State X.EBays**

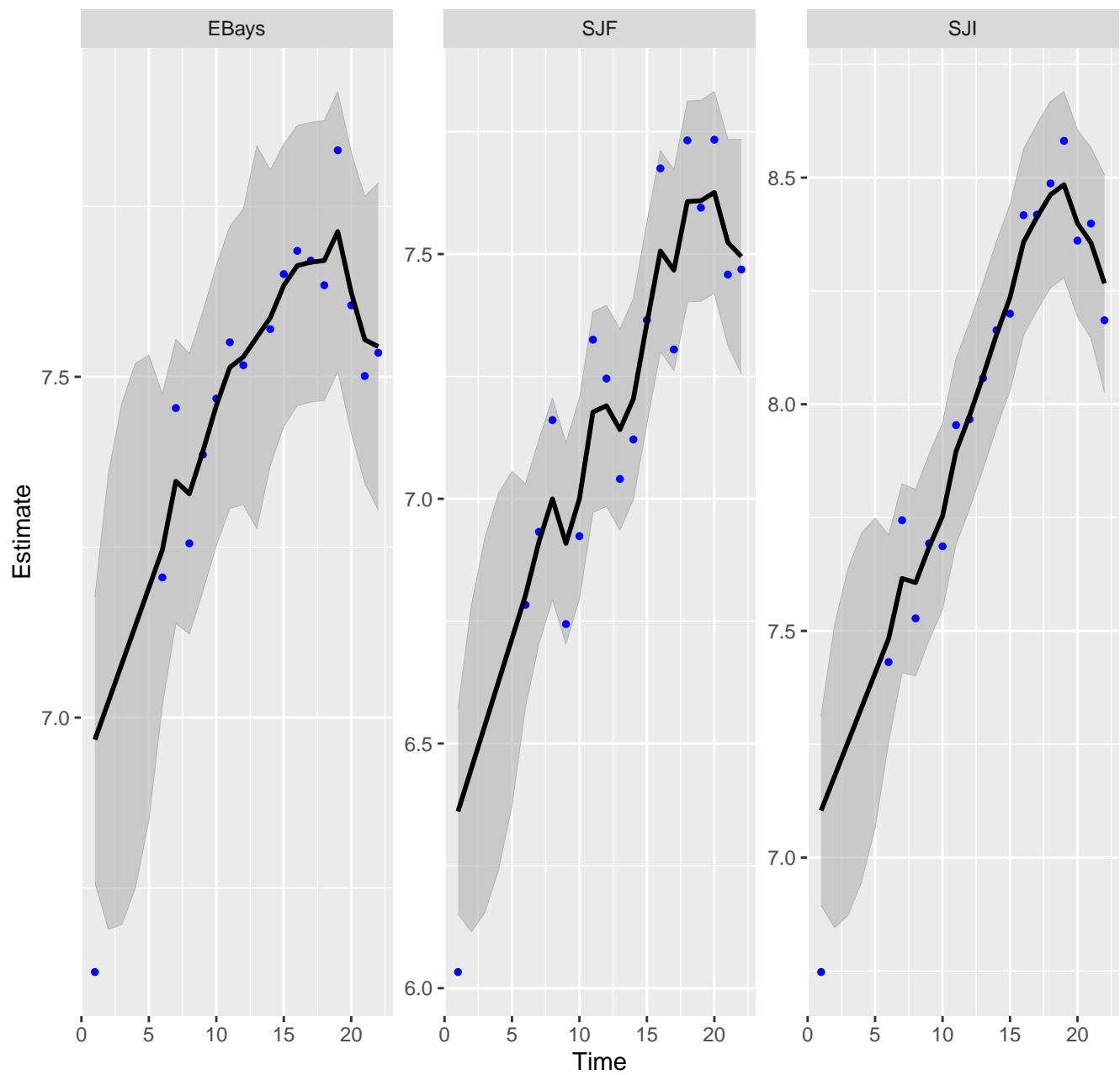
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

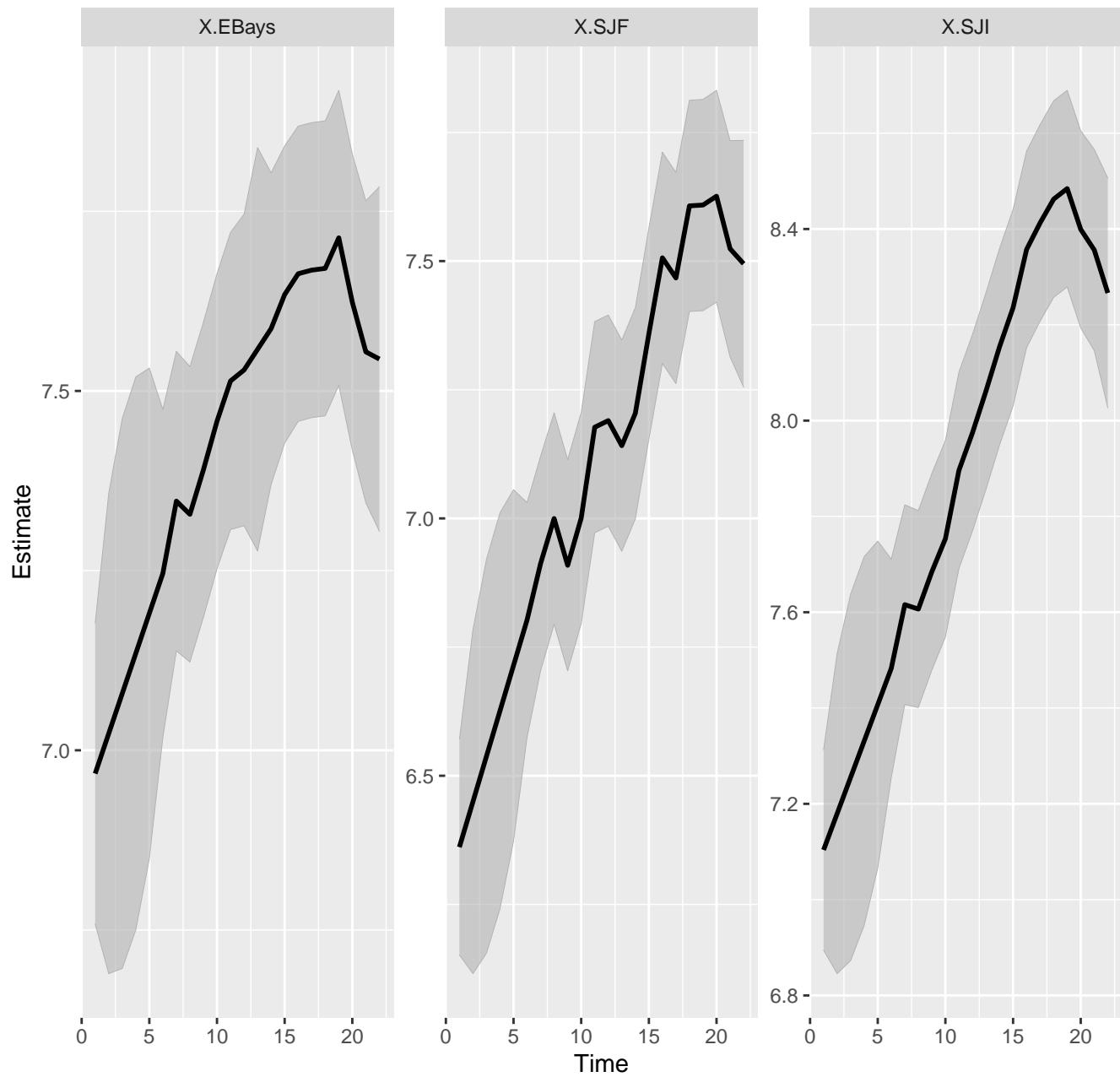
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

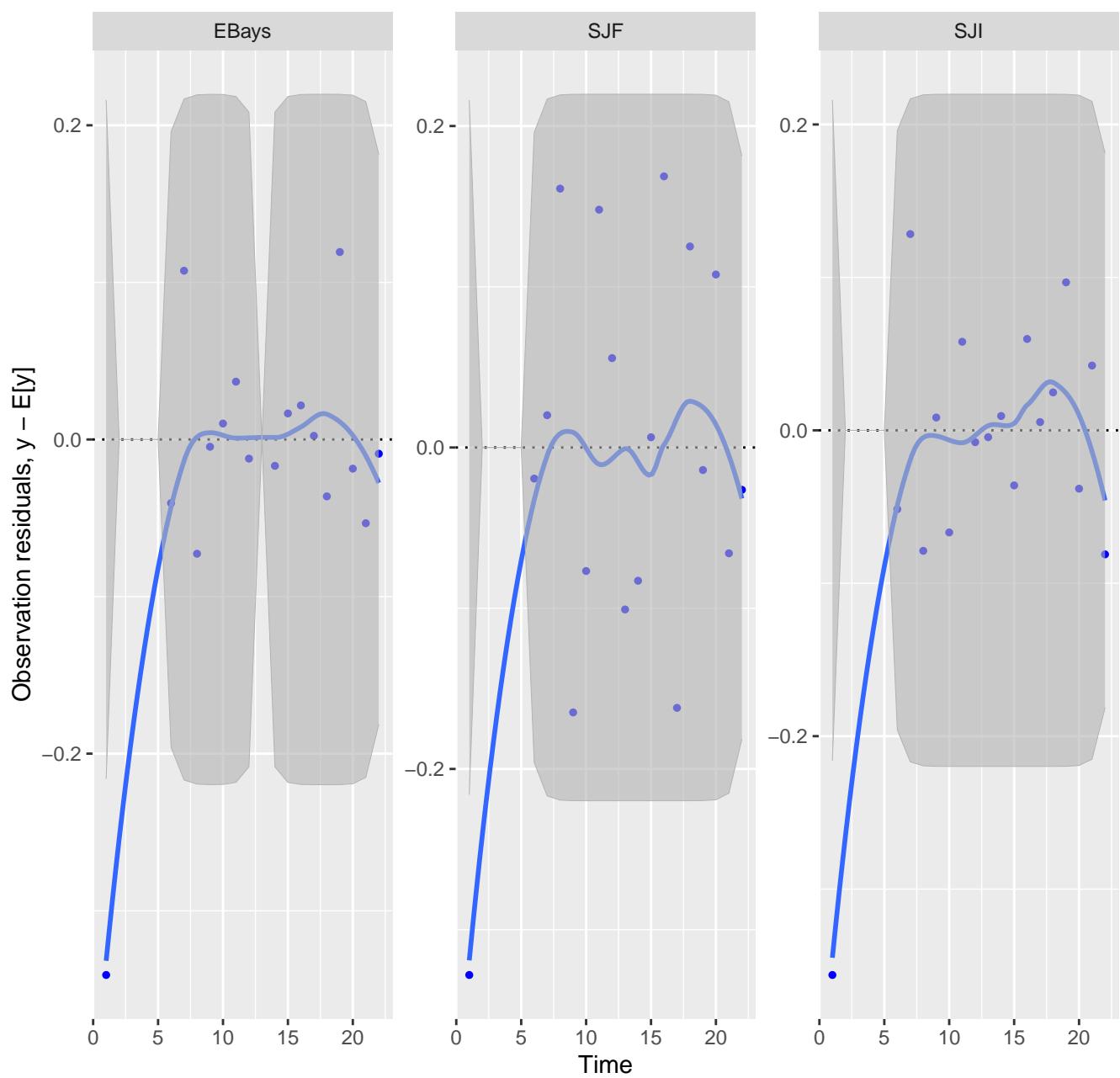
Model fitted Y + CI



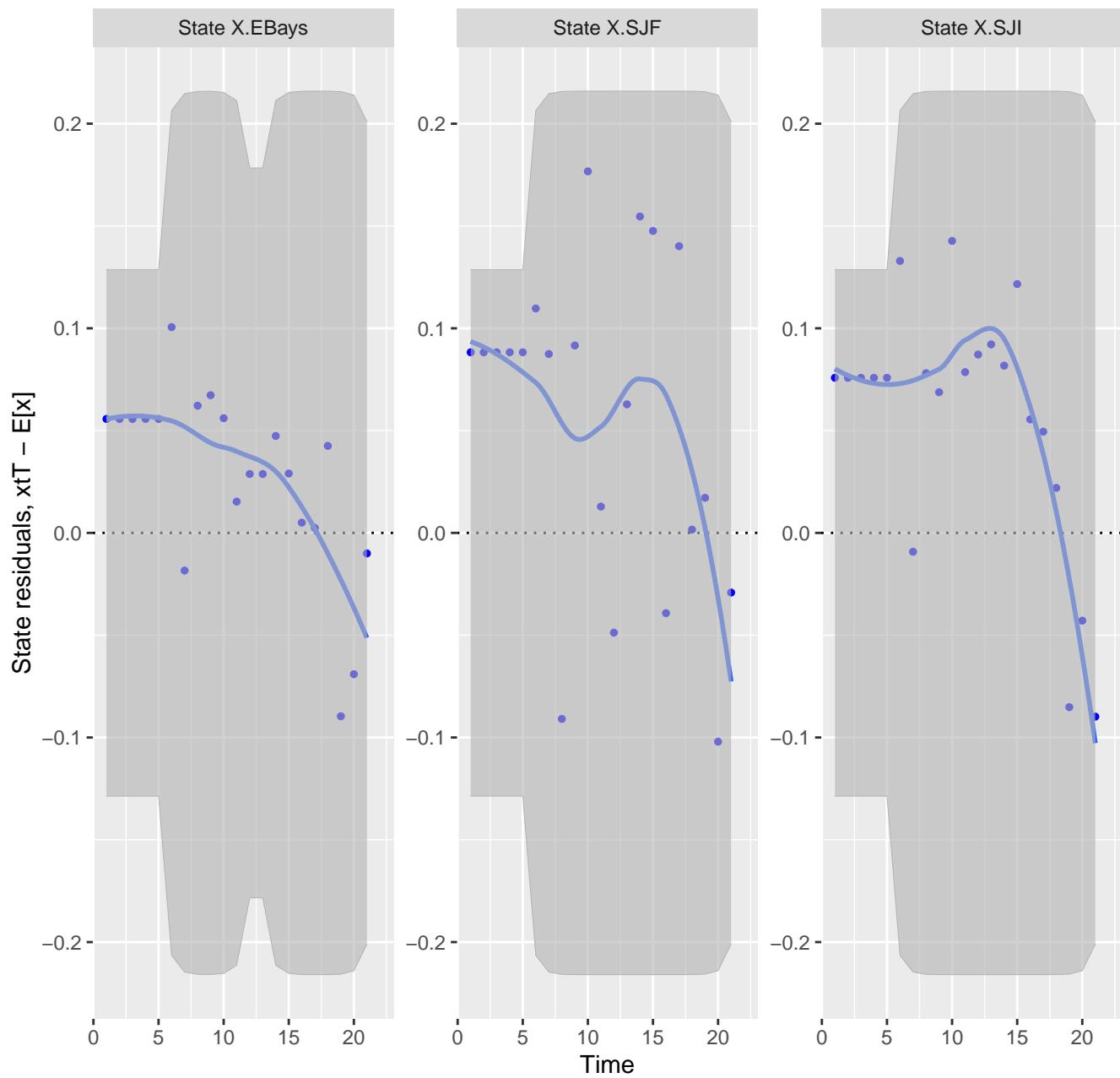
States



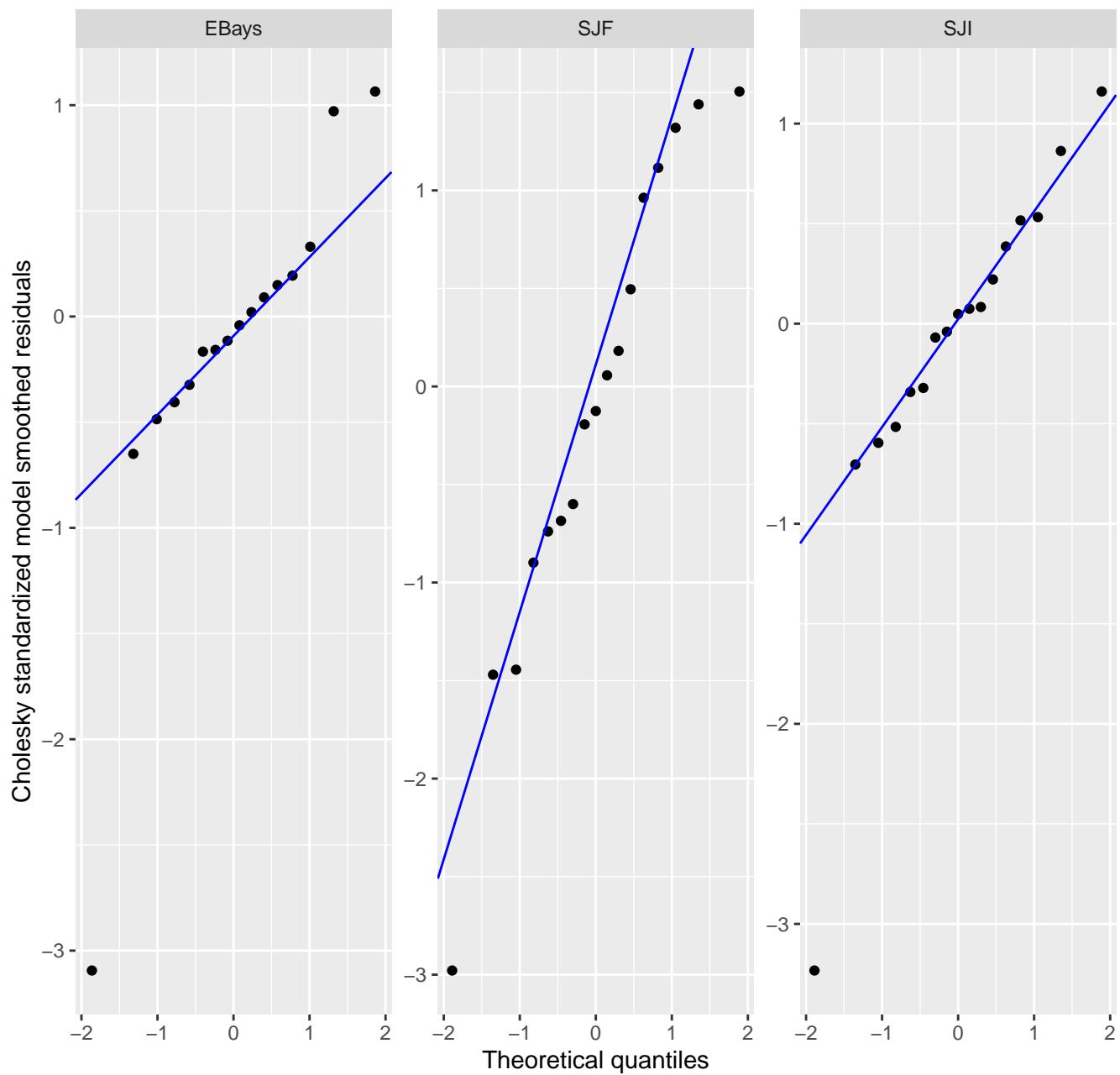
Model residuals



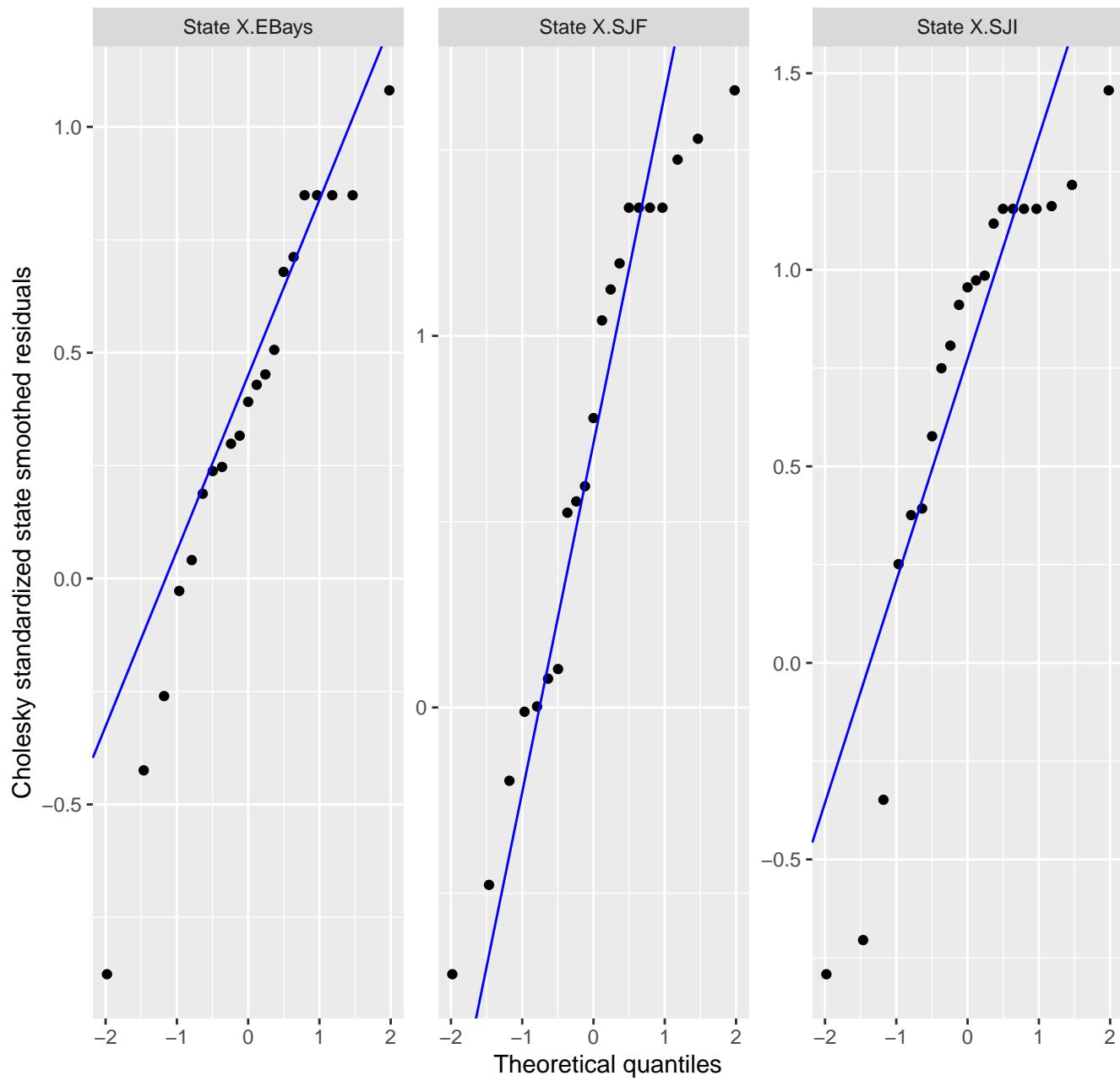
State residuals



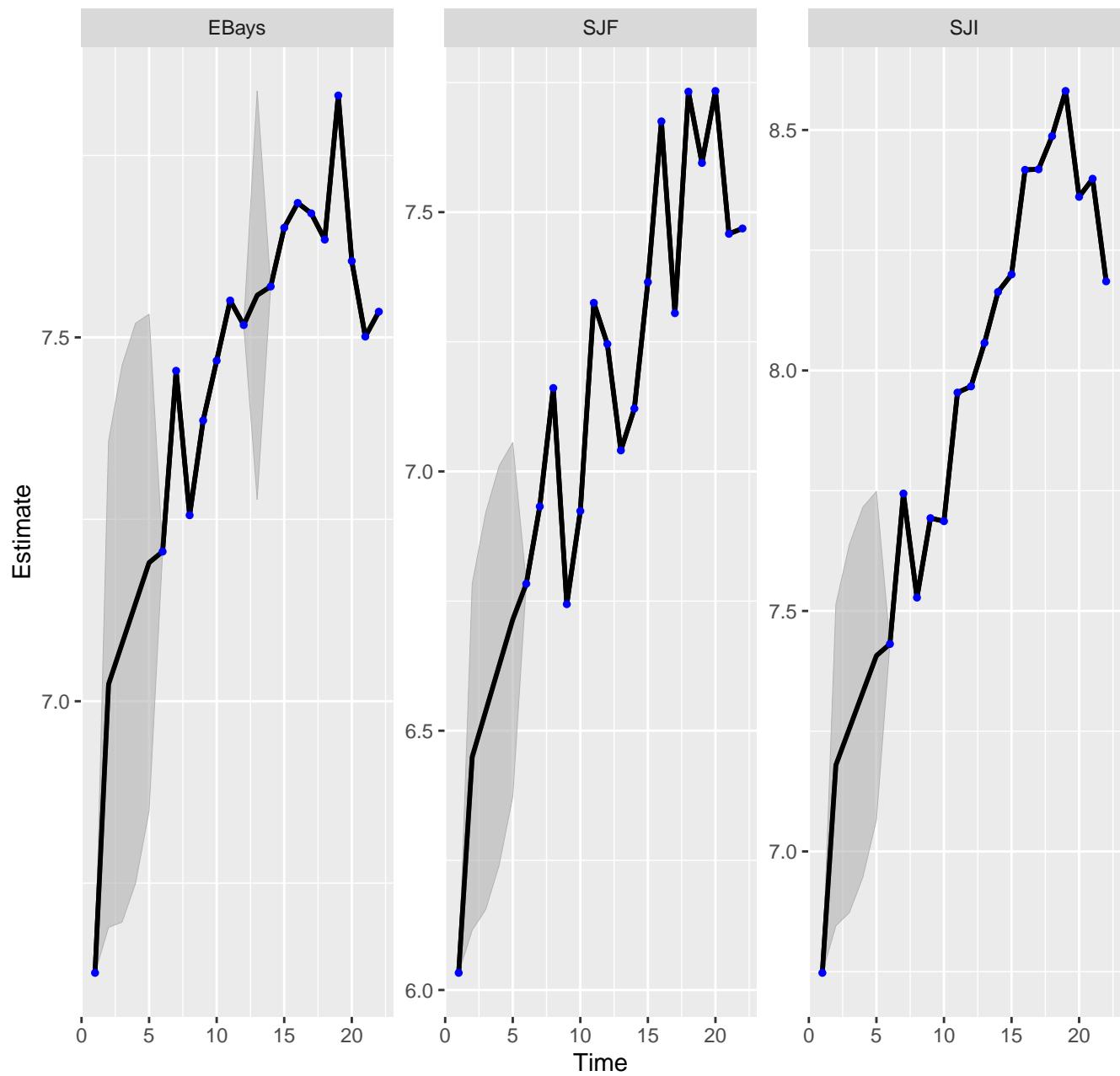
Model residuals normality test



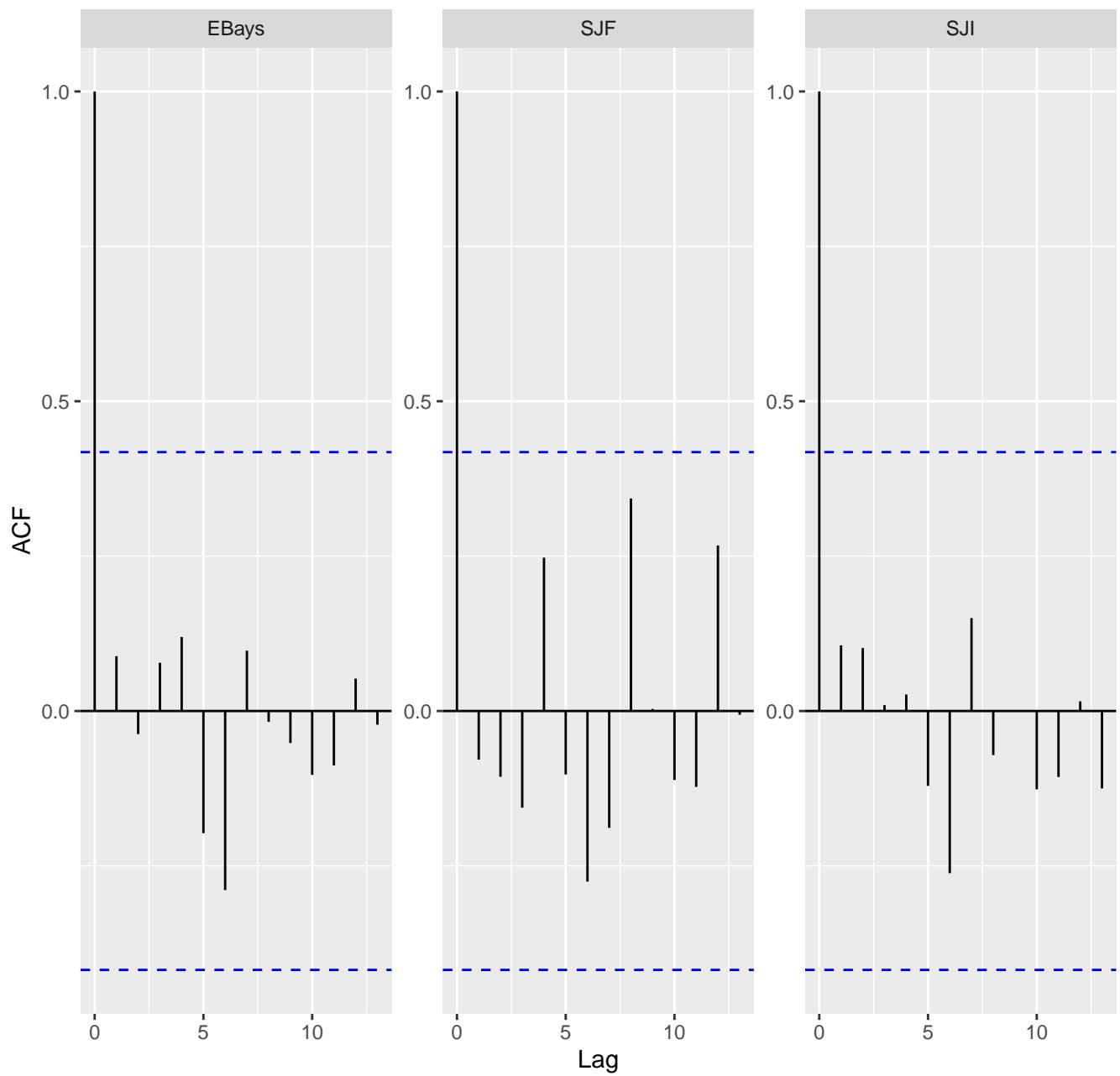
State residuals normality test

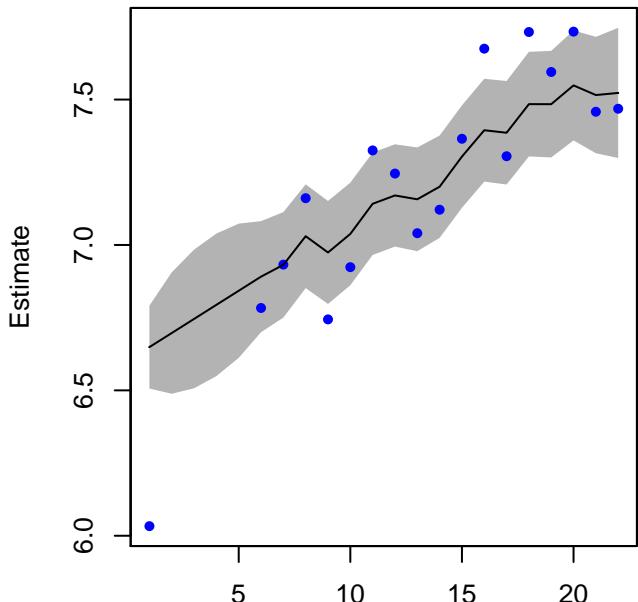
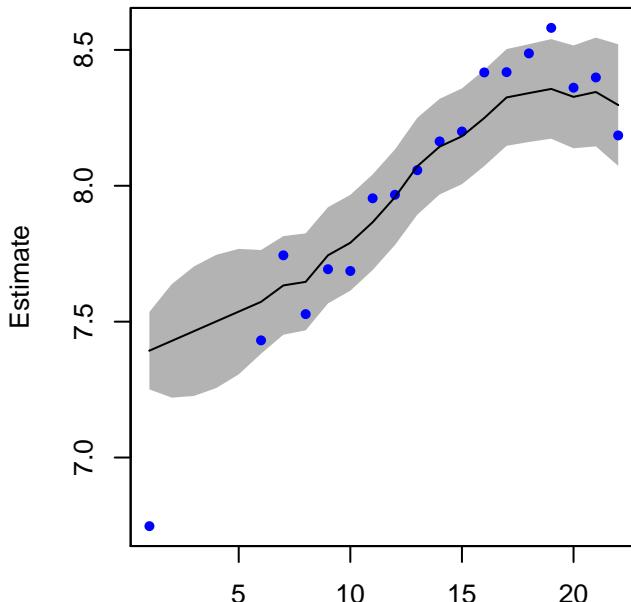
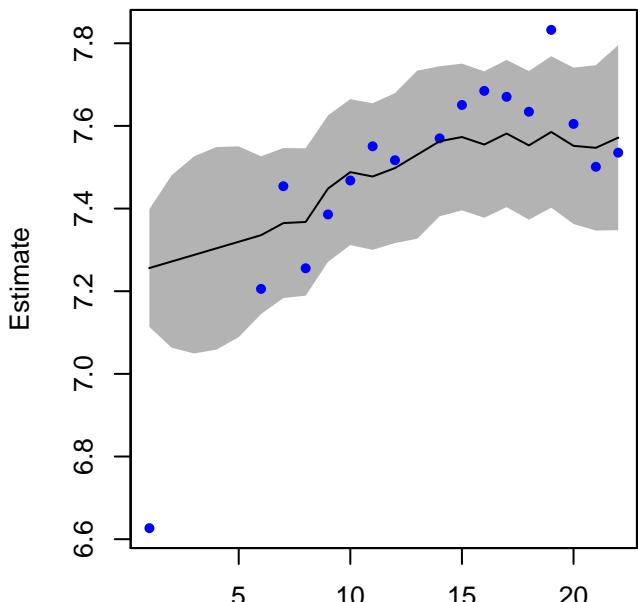


Expected value of Y conditioned on data

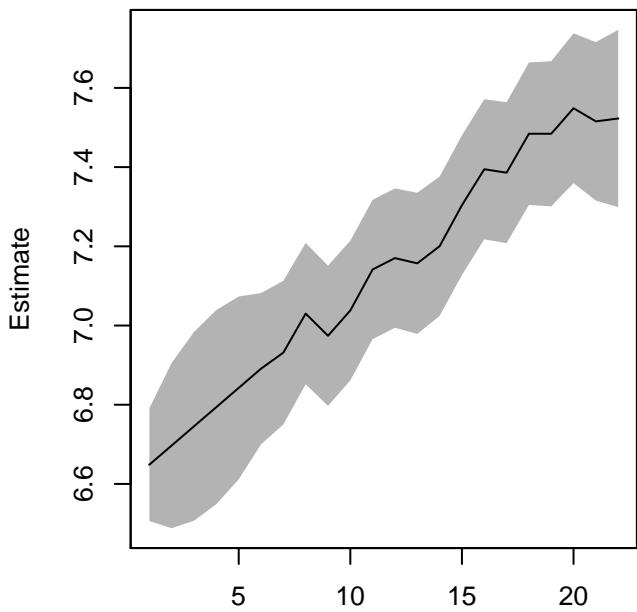


Model innovations residuals ACF

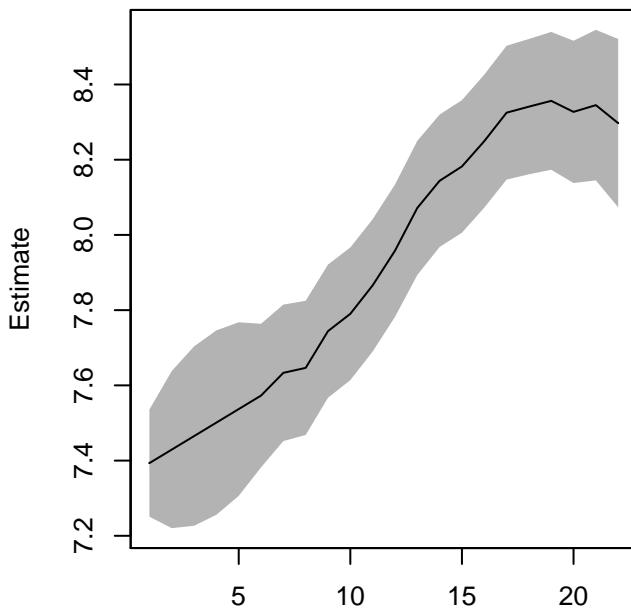


SJF + CI**SJI + CI****EBays + CI**

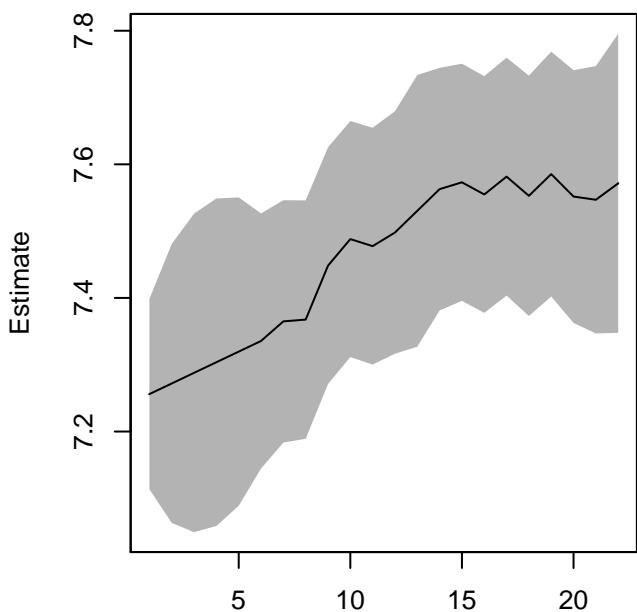
State X.SJF

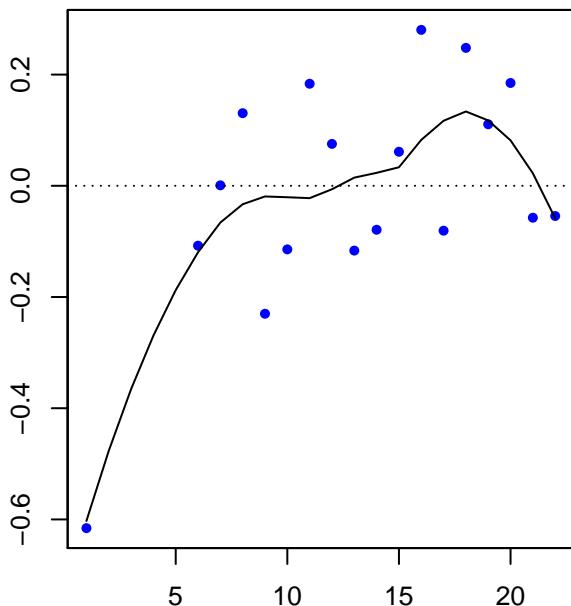
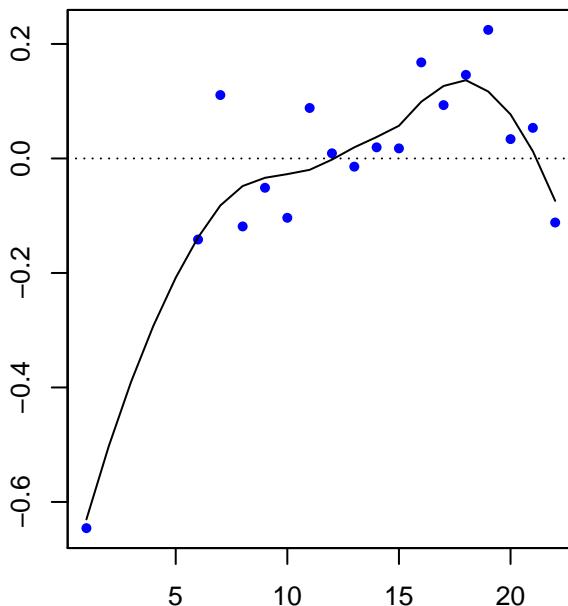
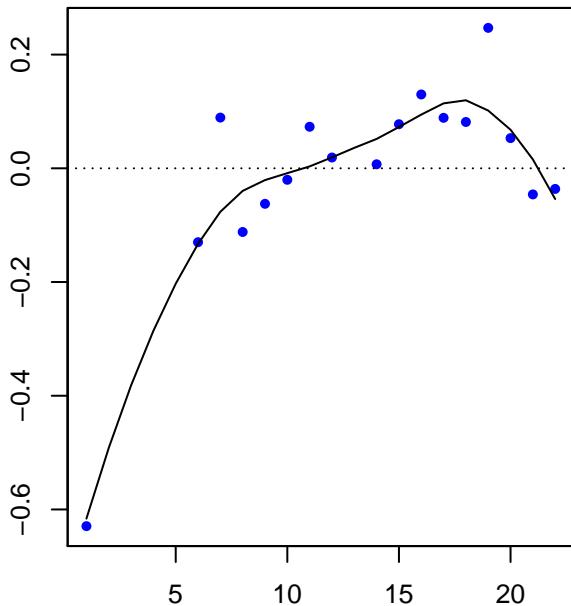


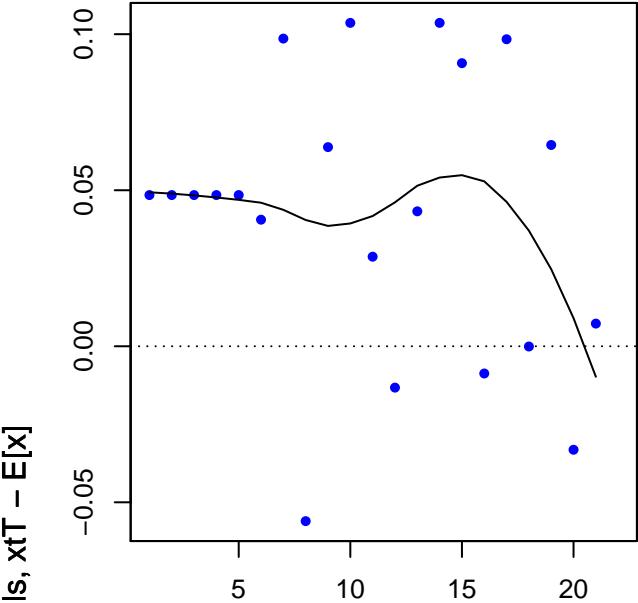
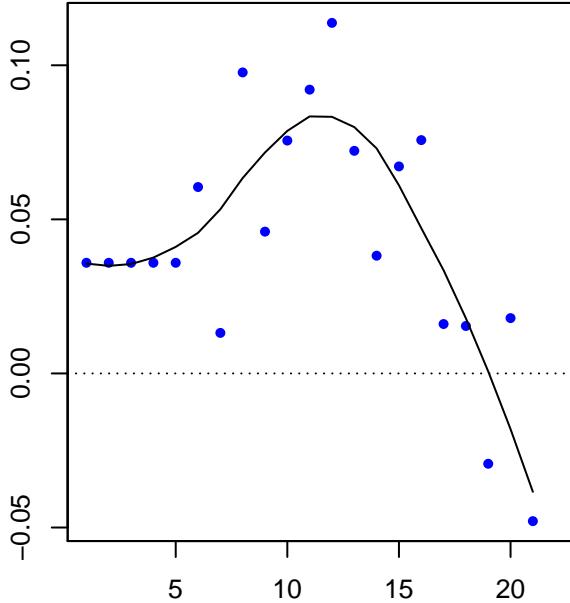
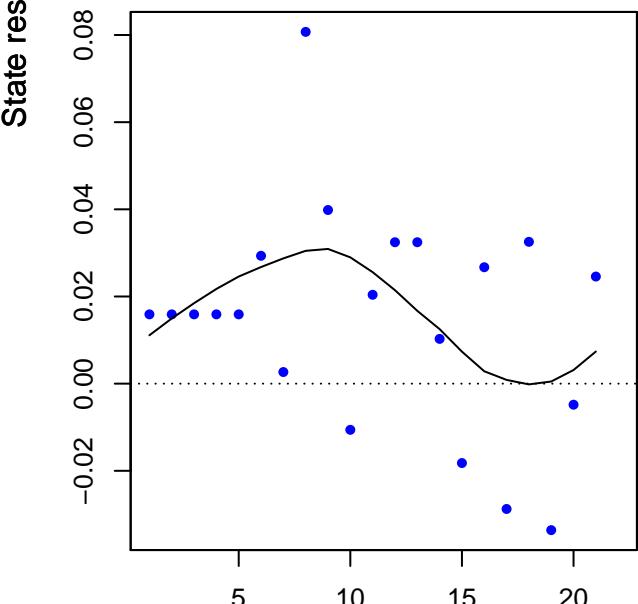
State X.SJI

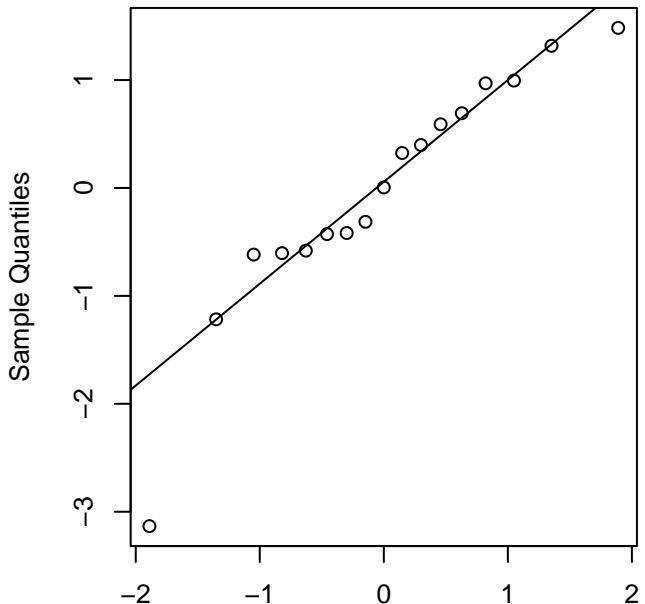
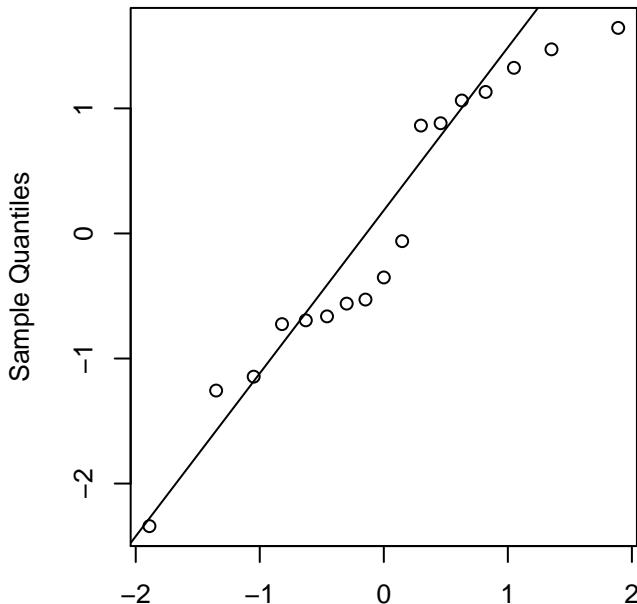
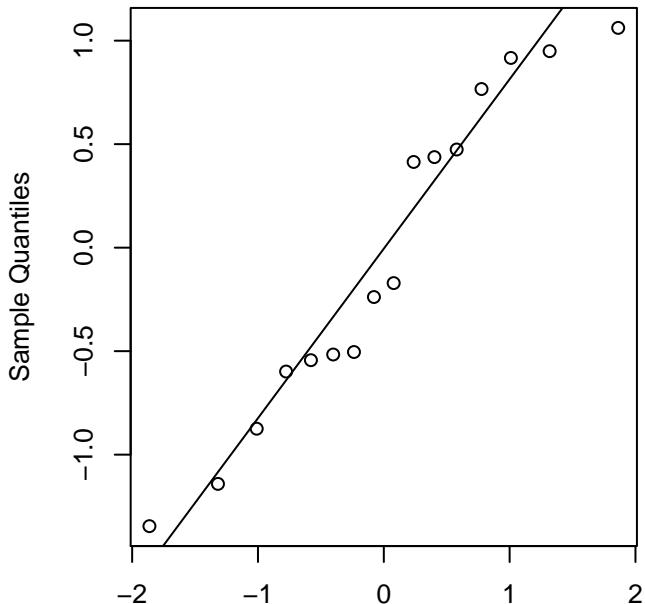


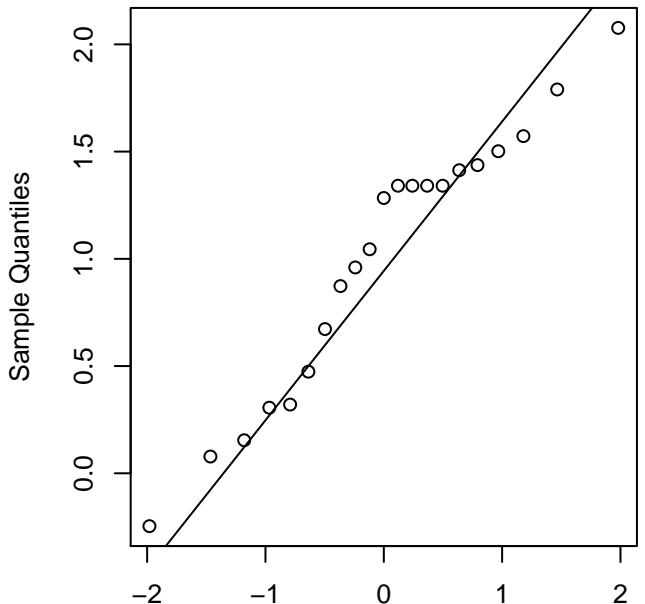
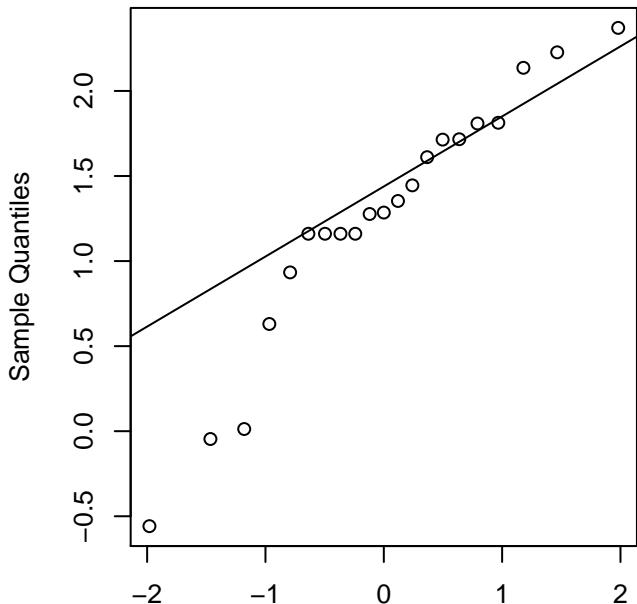
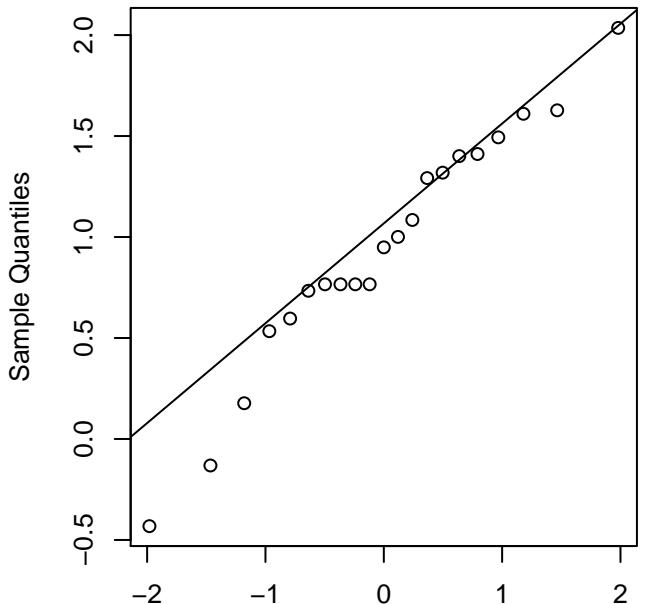
State X.EBays

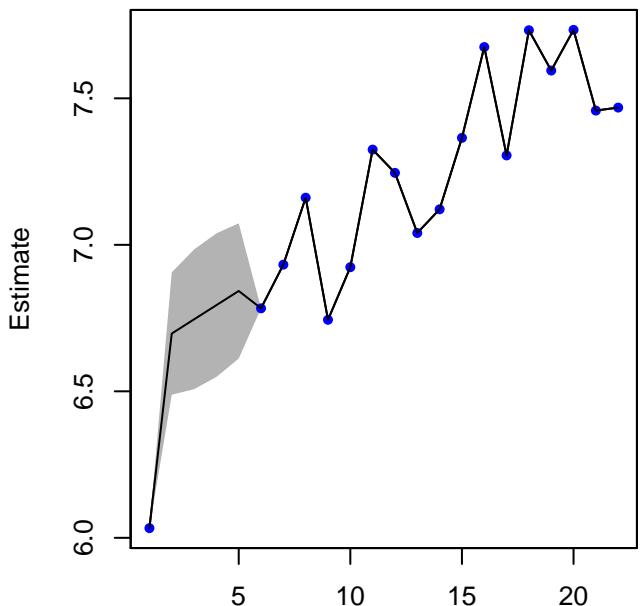
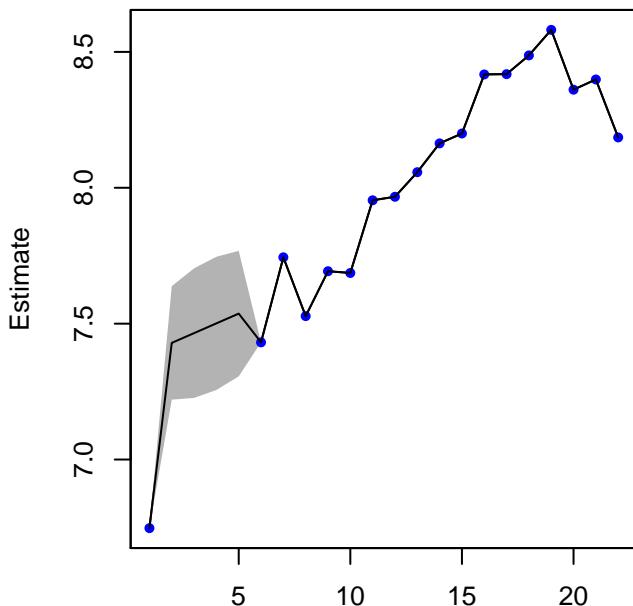
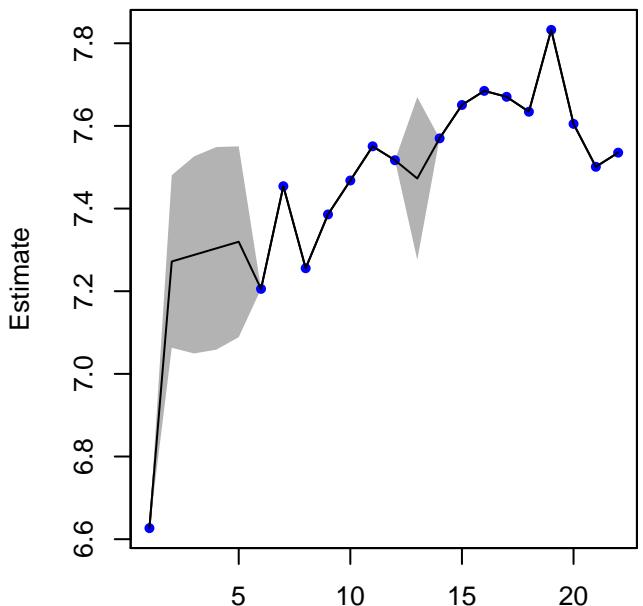


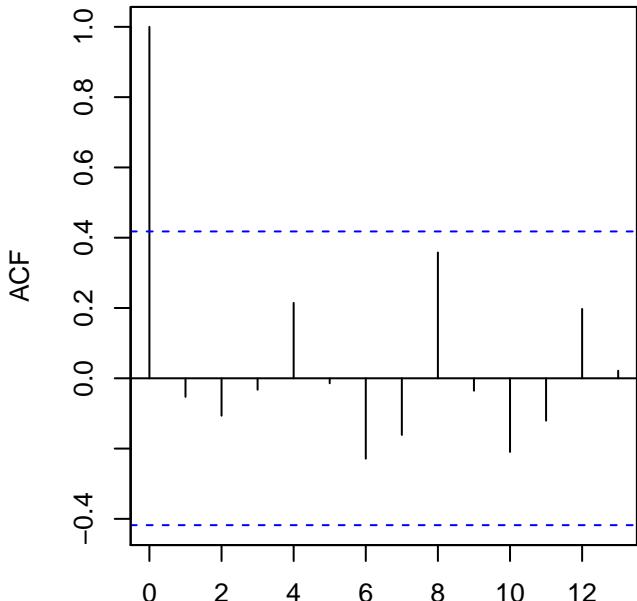
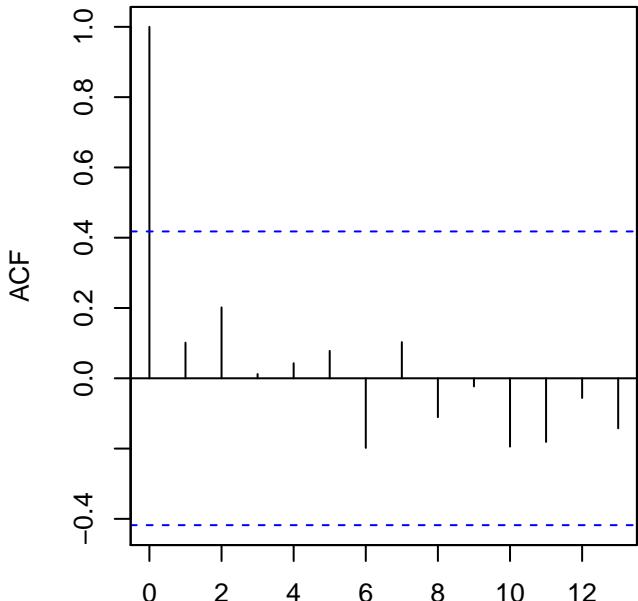
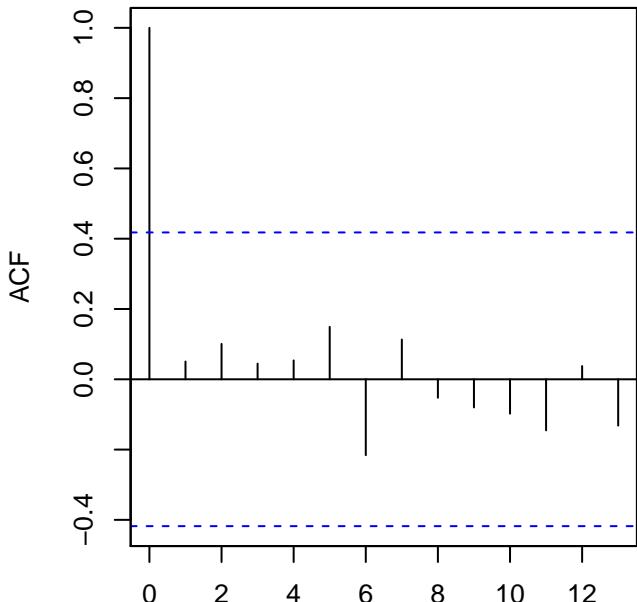
SJFObservation residuals, $y - E[y]$ **SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

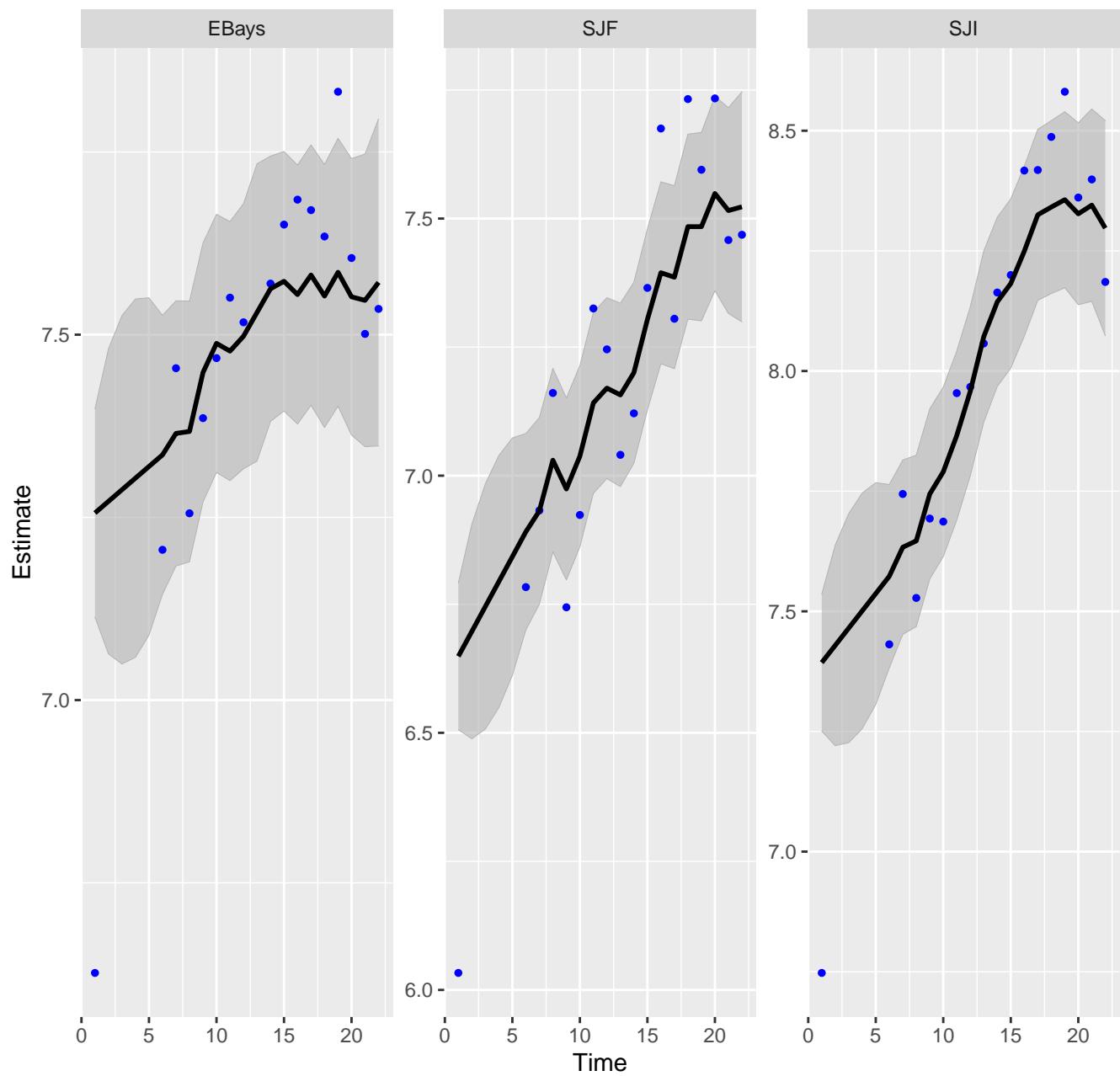
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

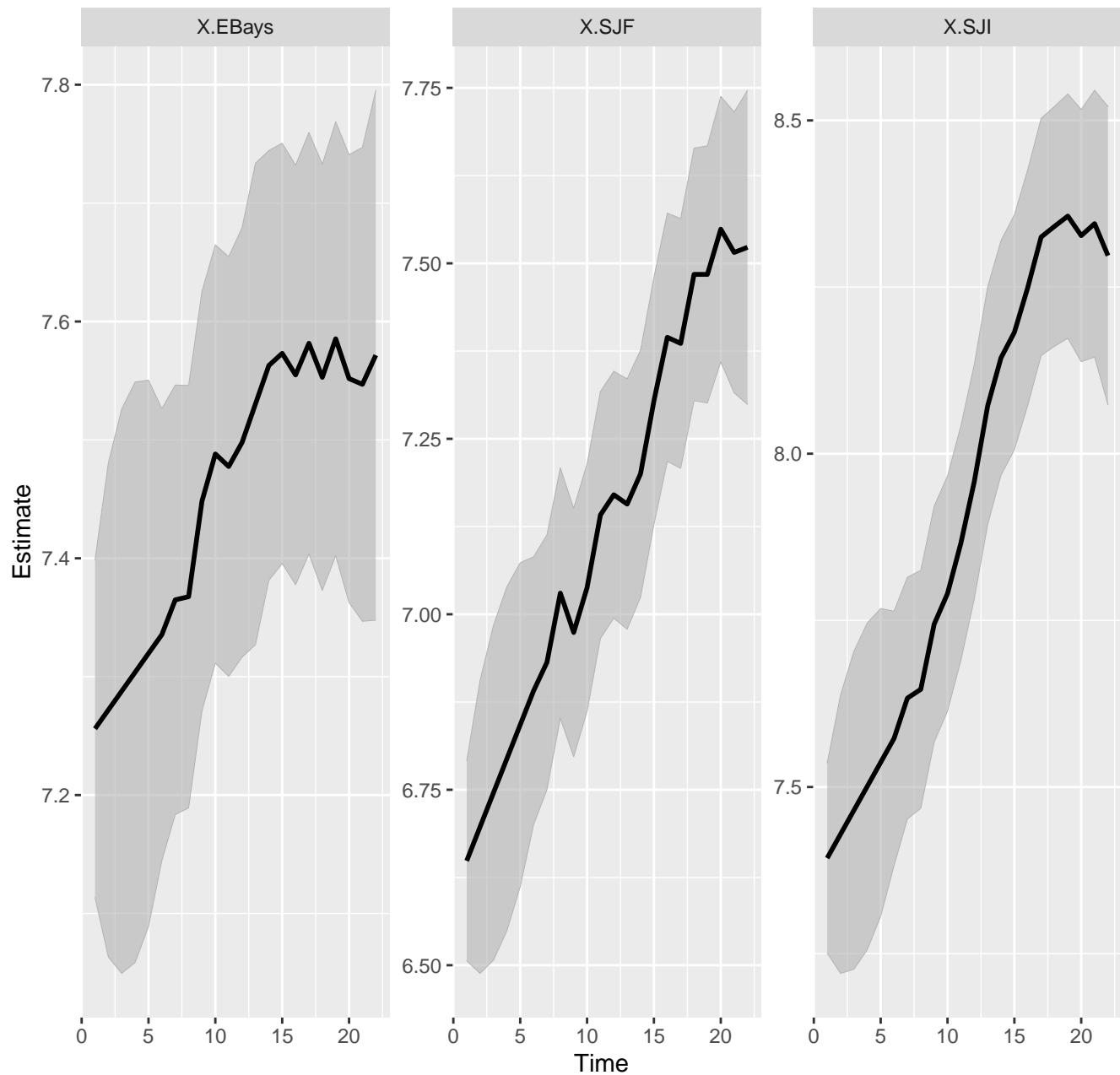
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

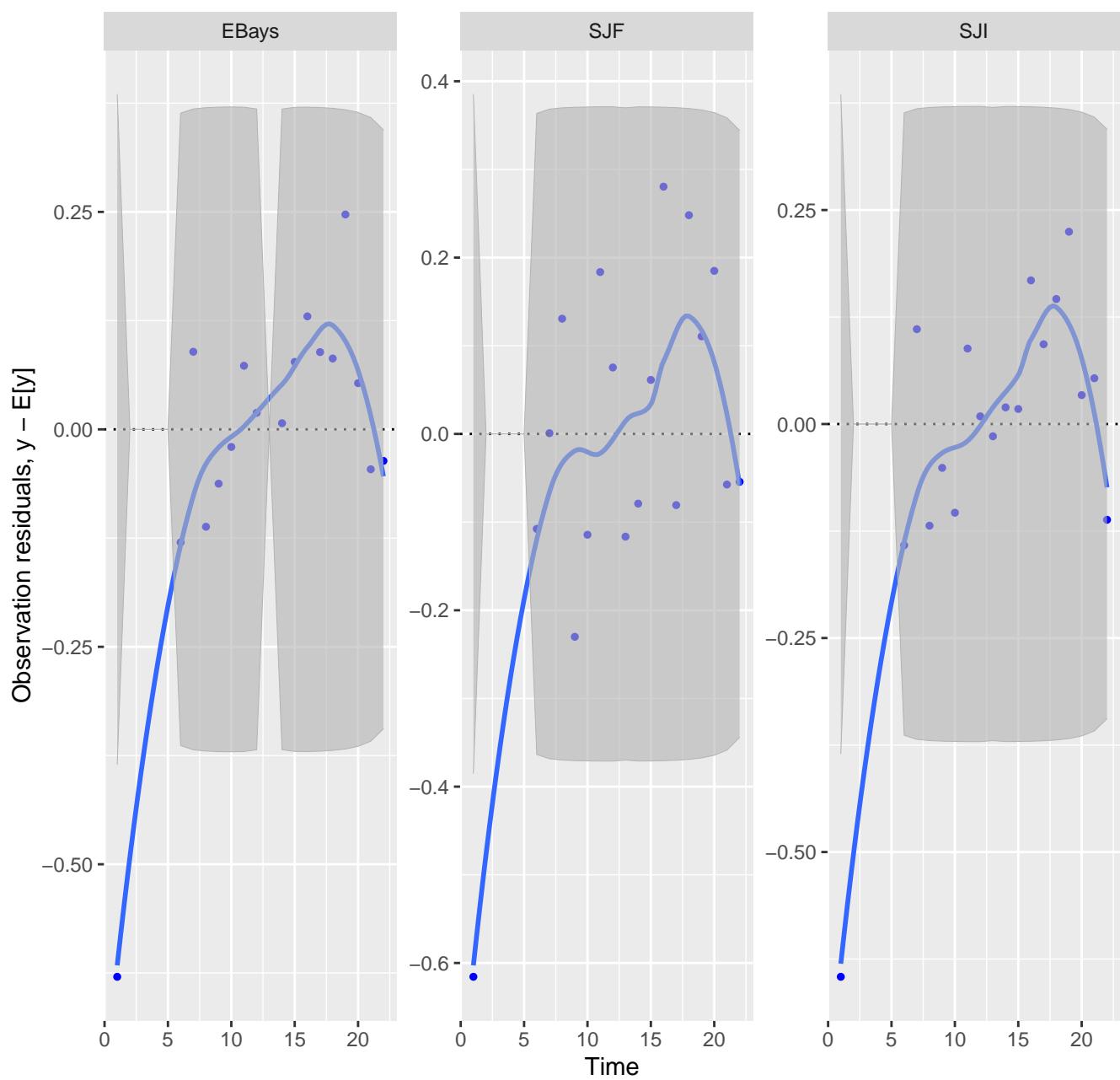
Model fitted Y + CI



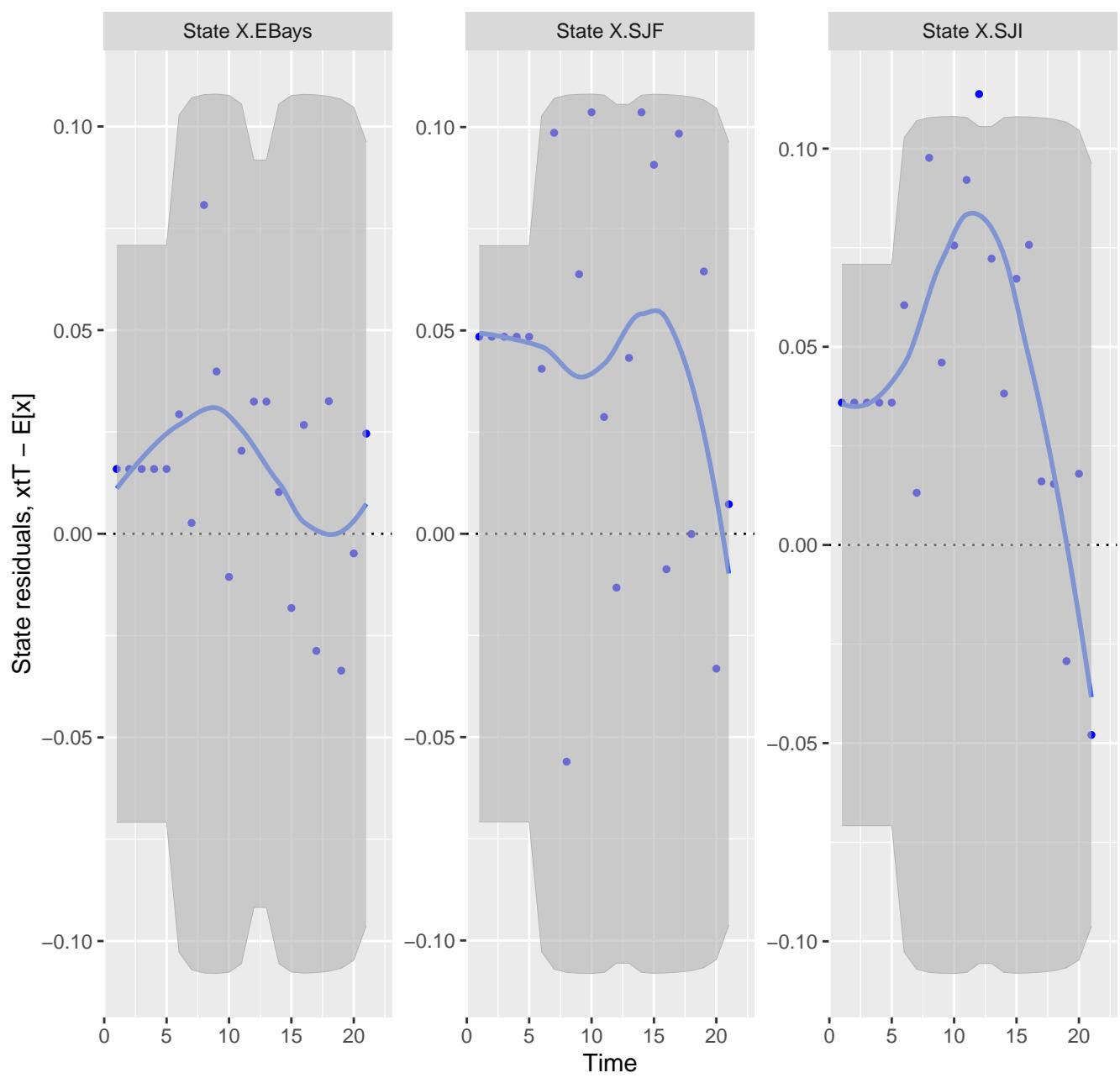
States



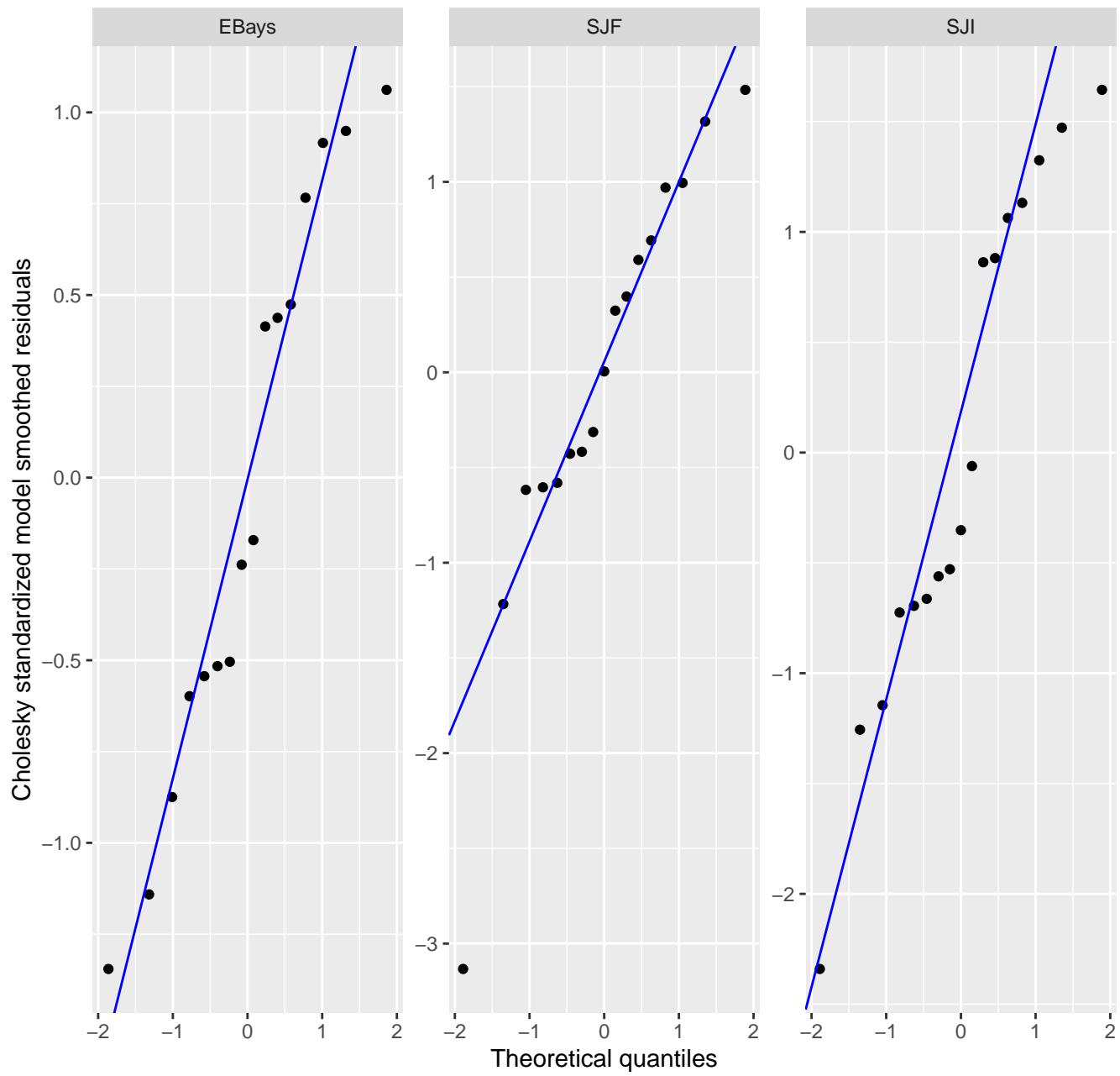
Model residuals



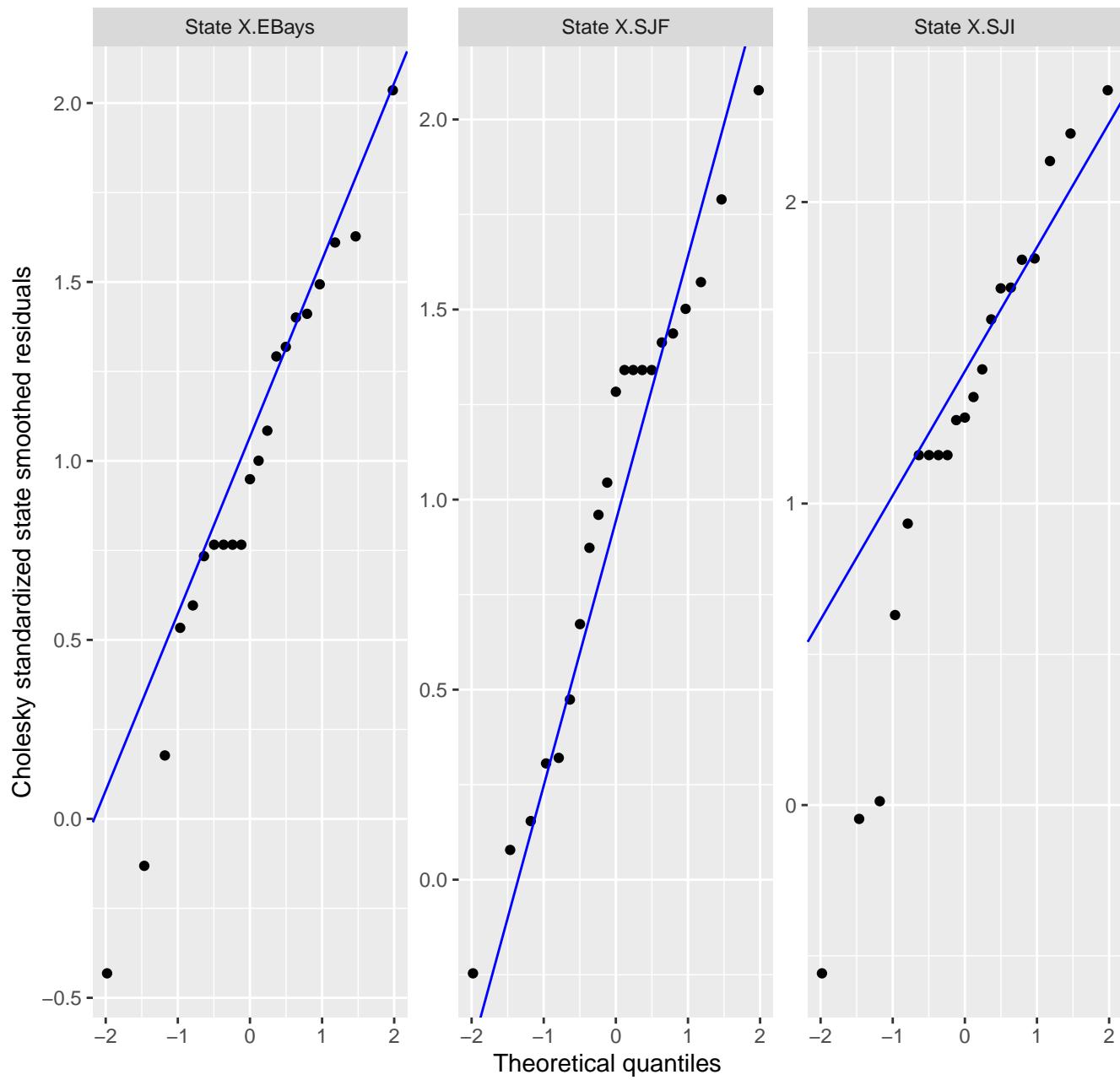
State residuals



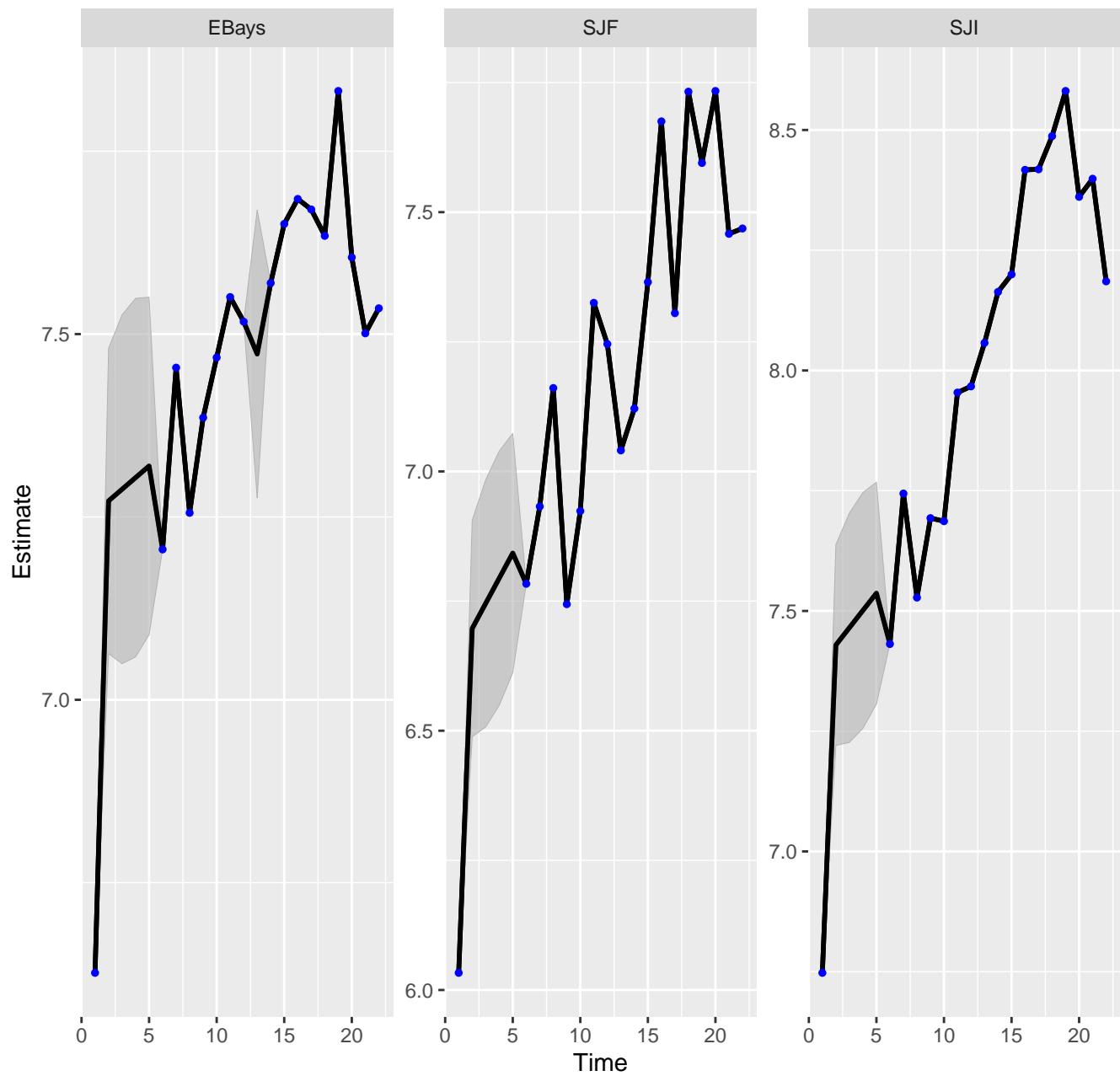
Model residuals normality test



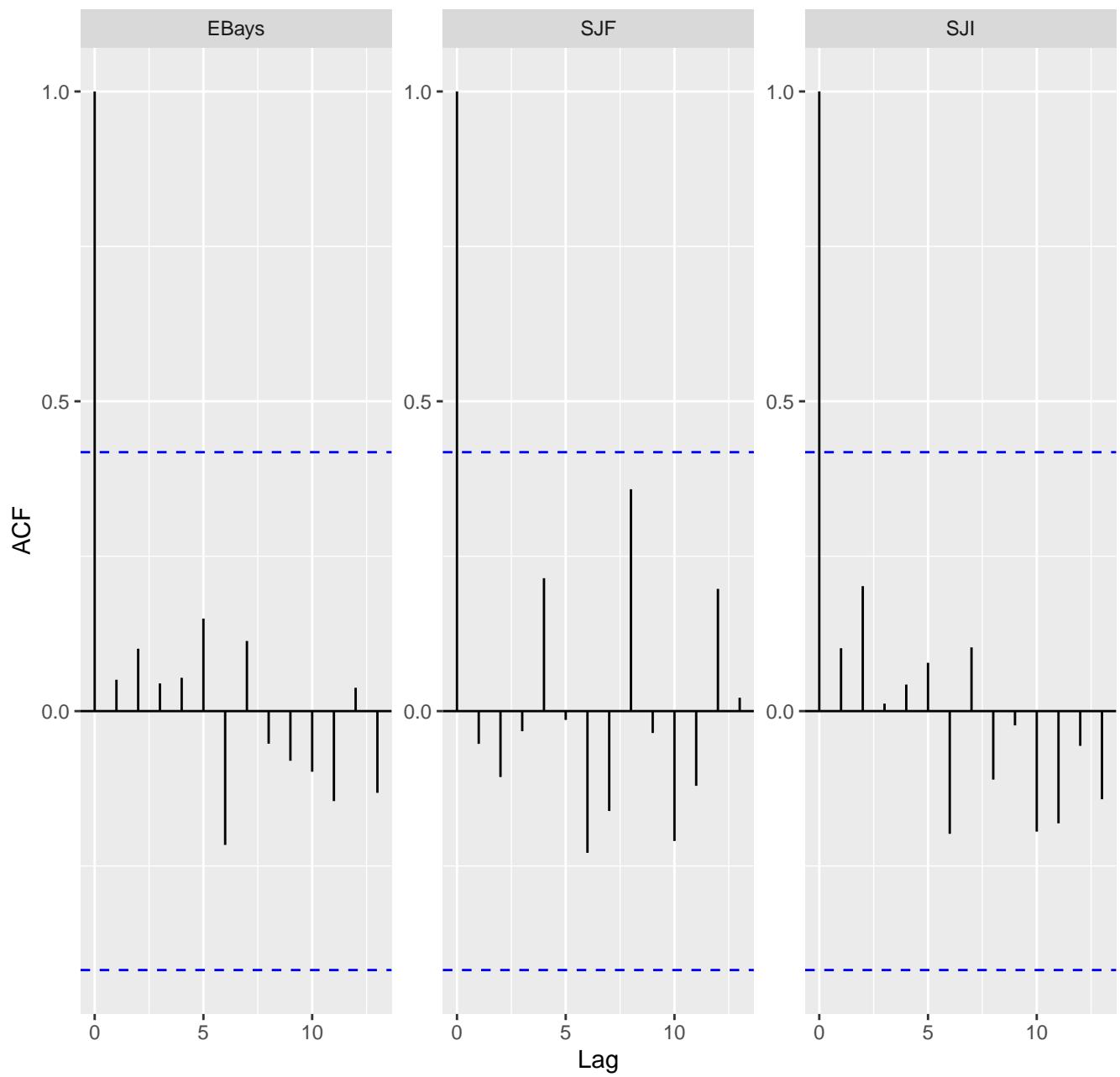
State residuals normality test

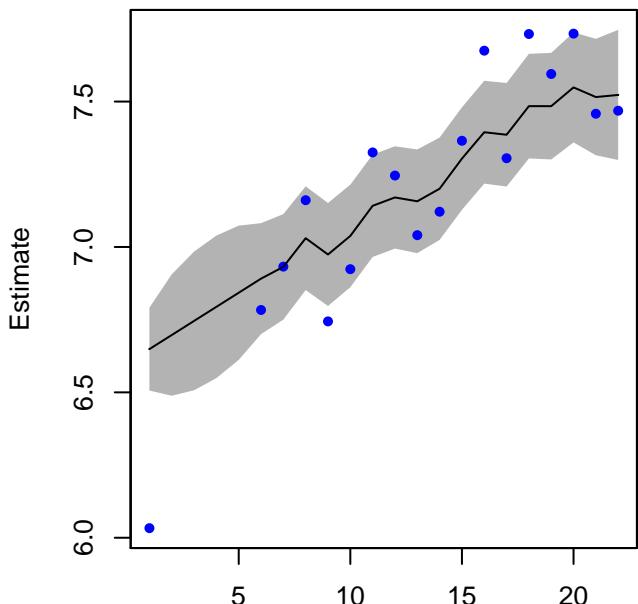
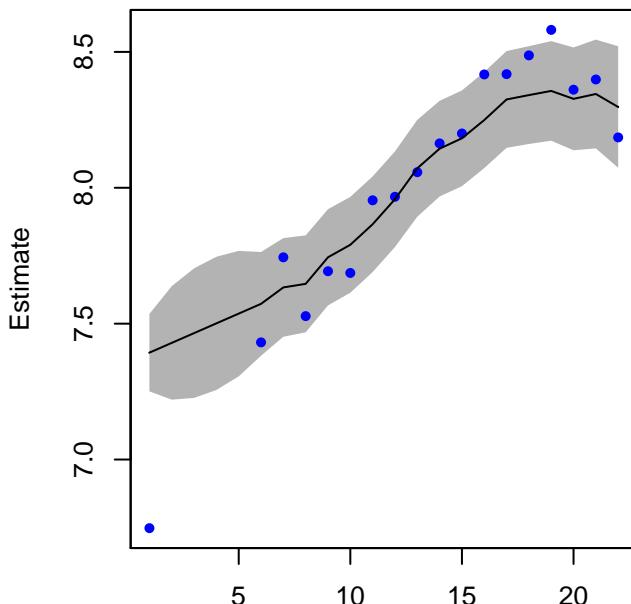
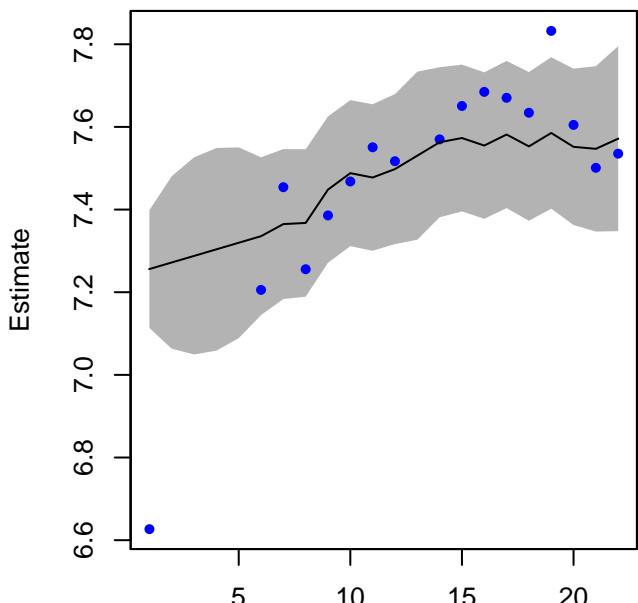


Expected value of Y conditioned on data

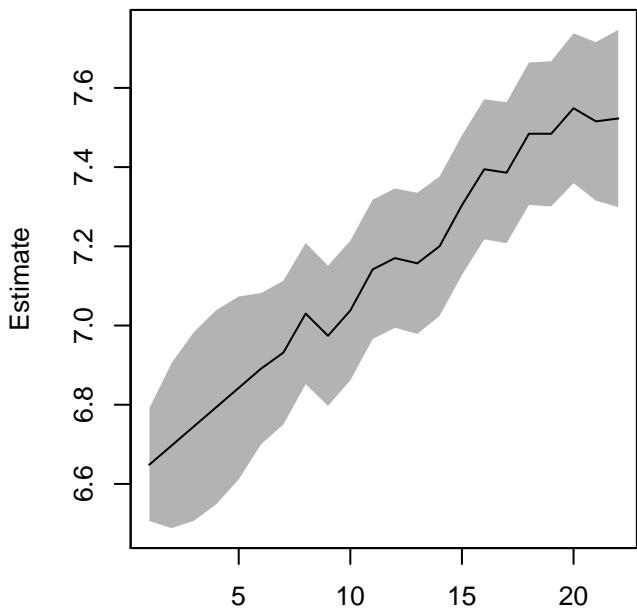


Model innovations residuals ACF

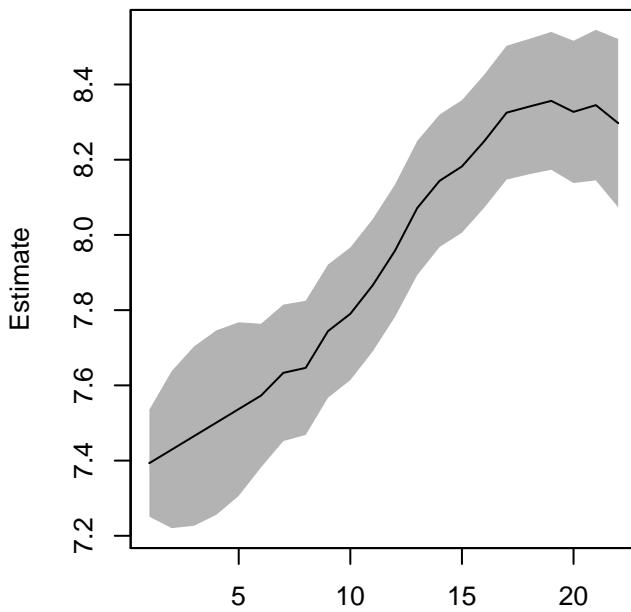


SJF + CI**SJI + CI****EBays + CI**

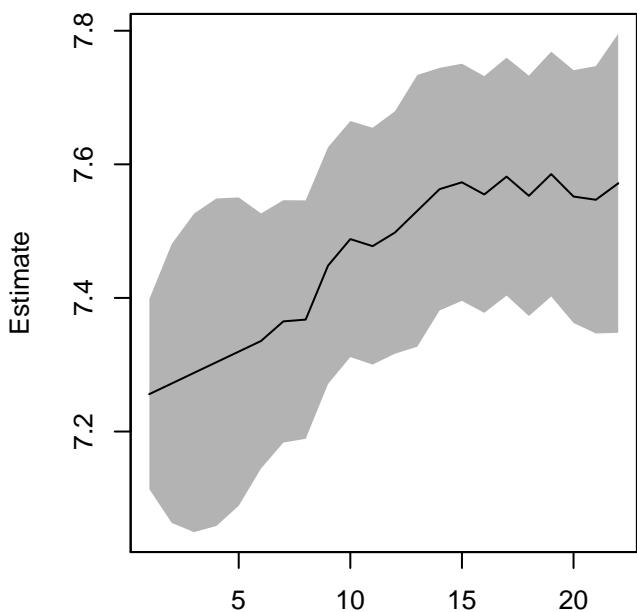
State X.SJF

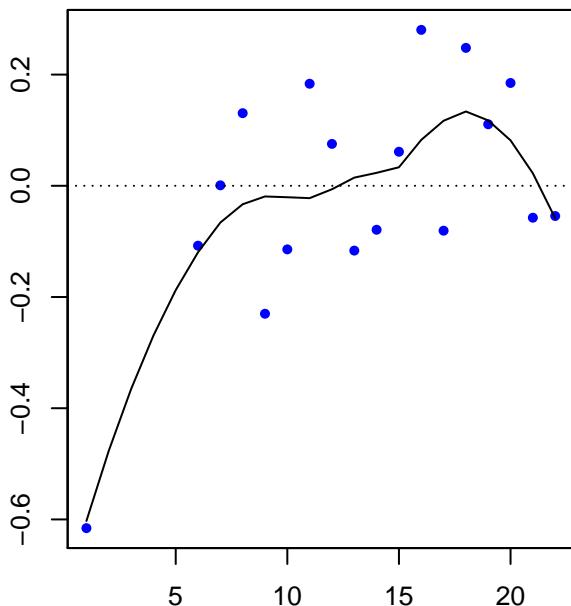
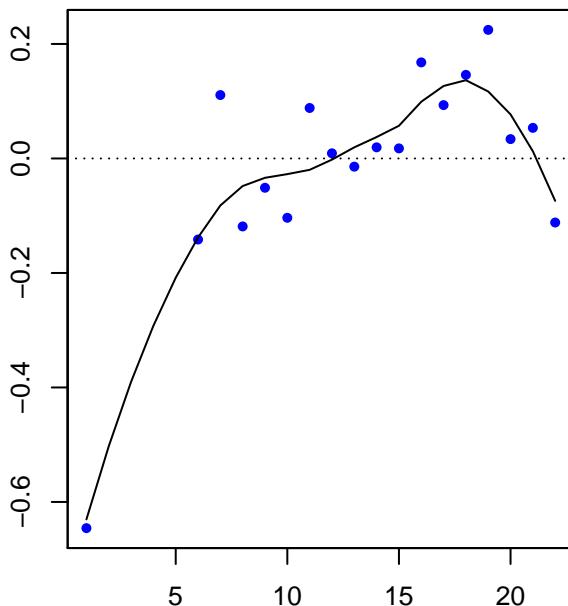
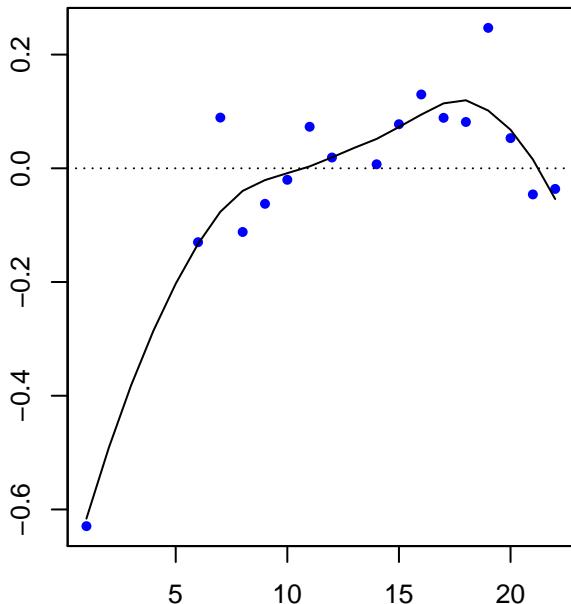


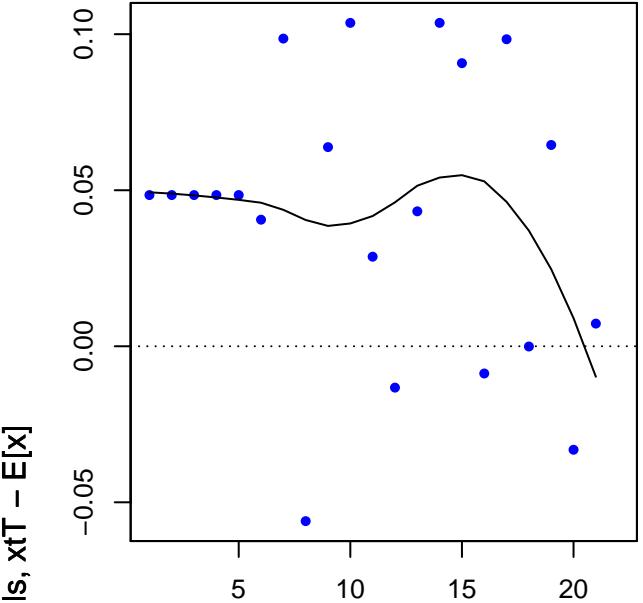
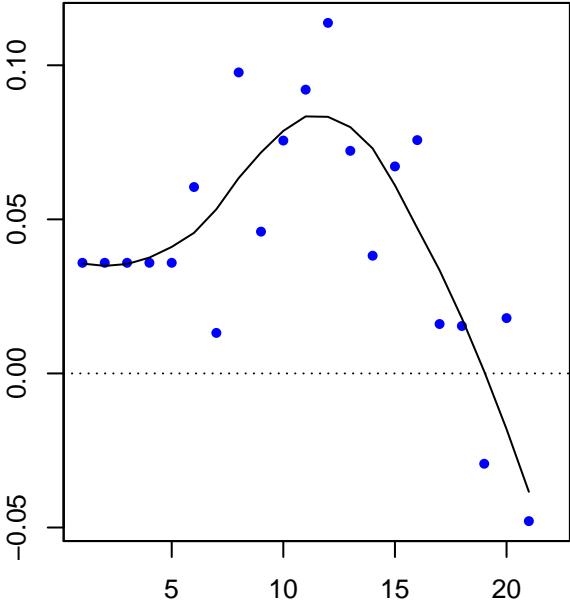
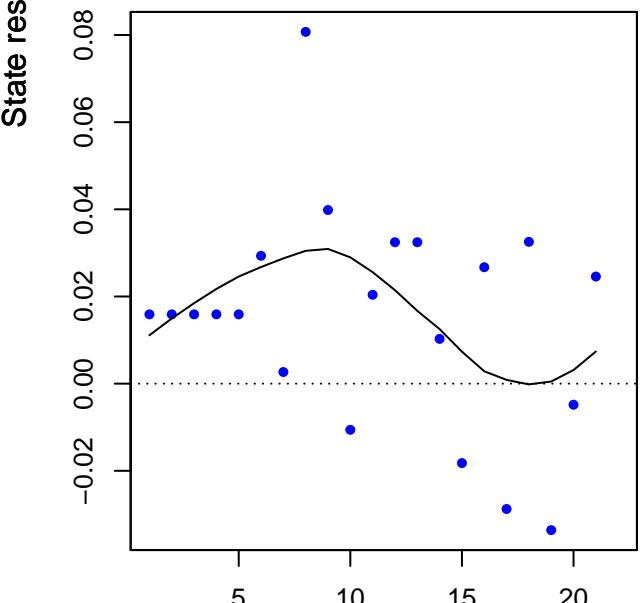
State X.SJI

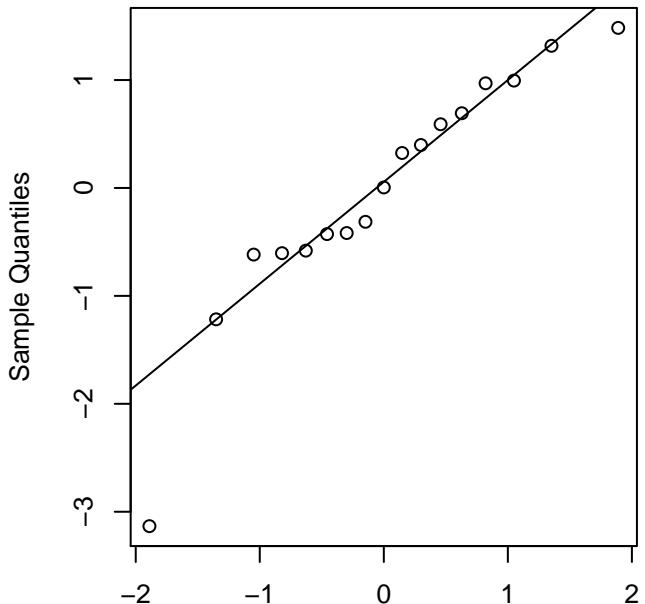
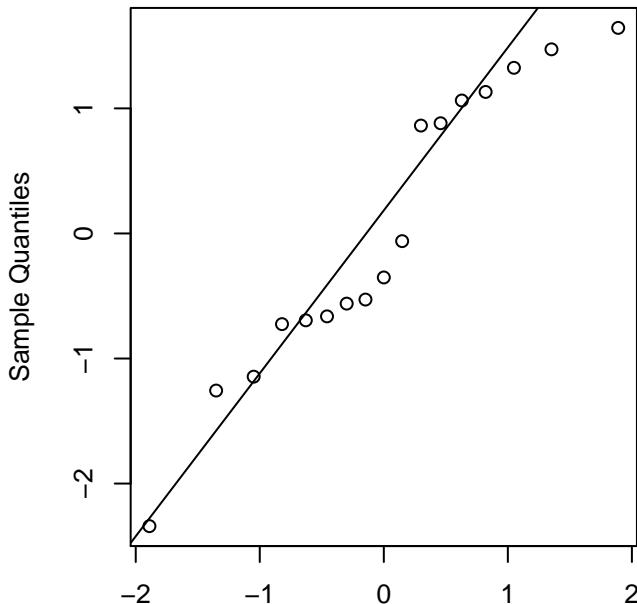
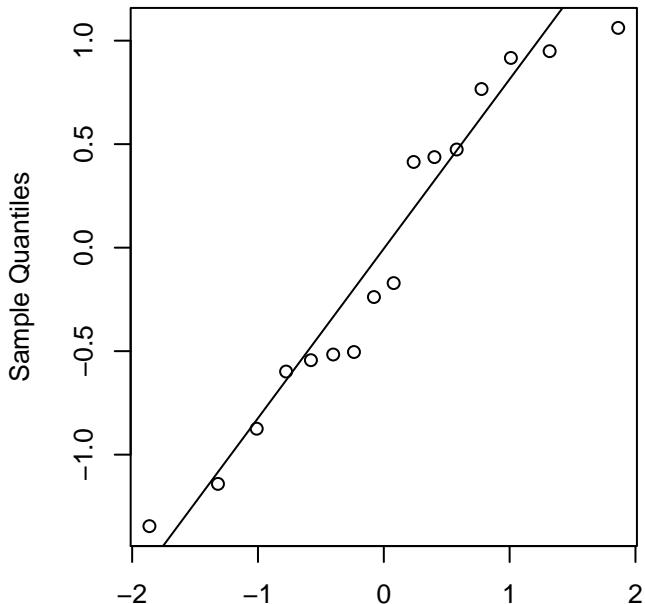


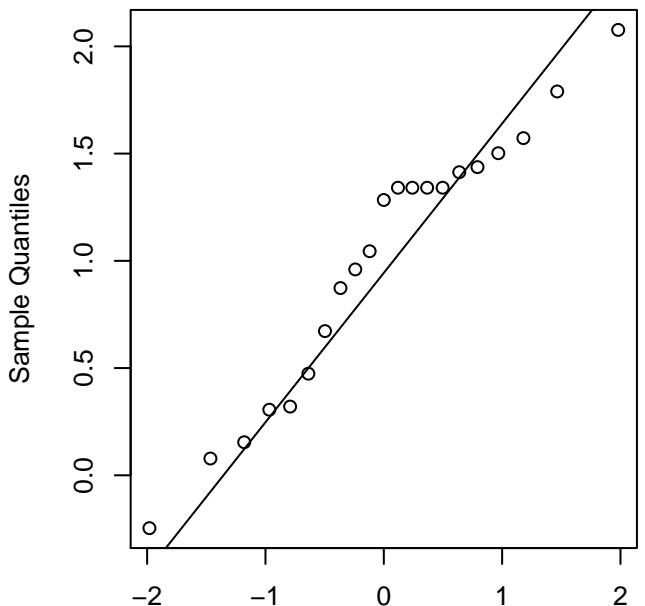
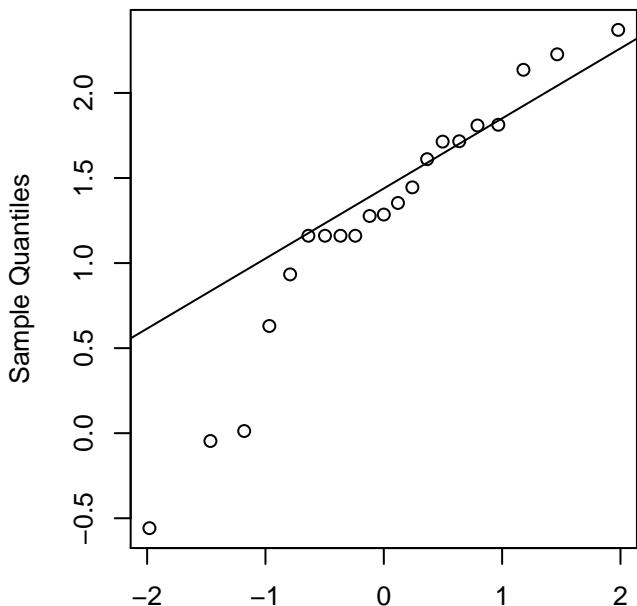
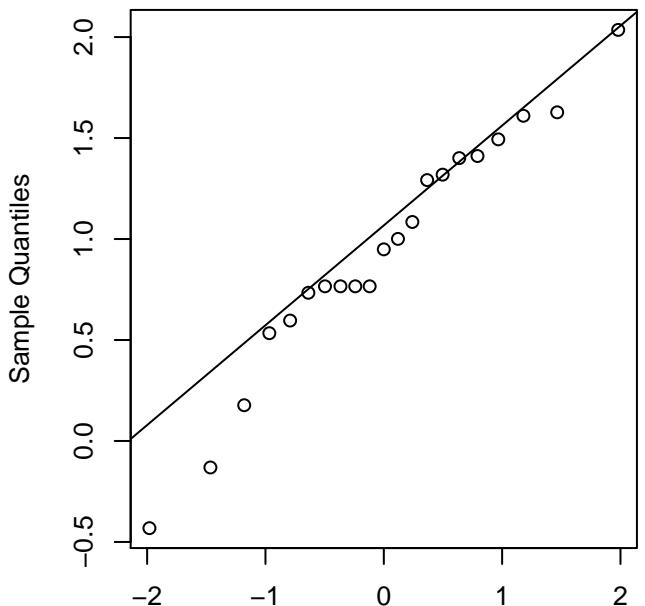
State X.EBays

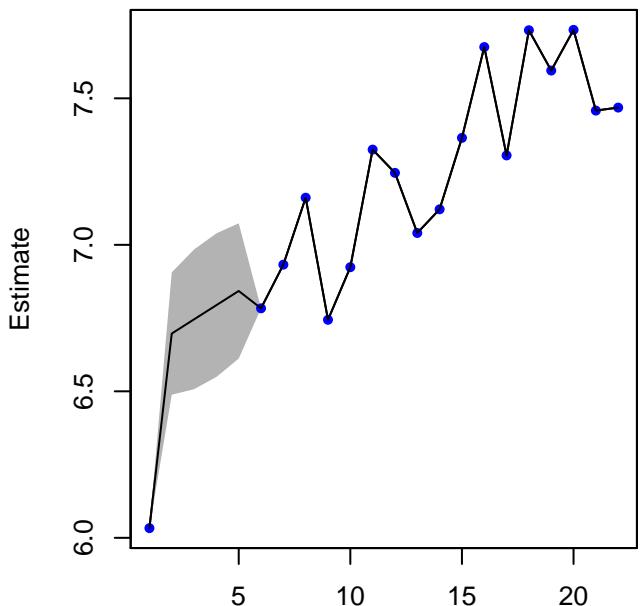
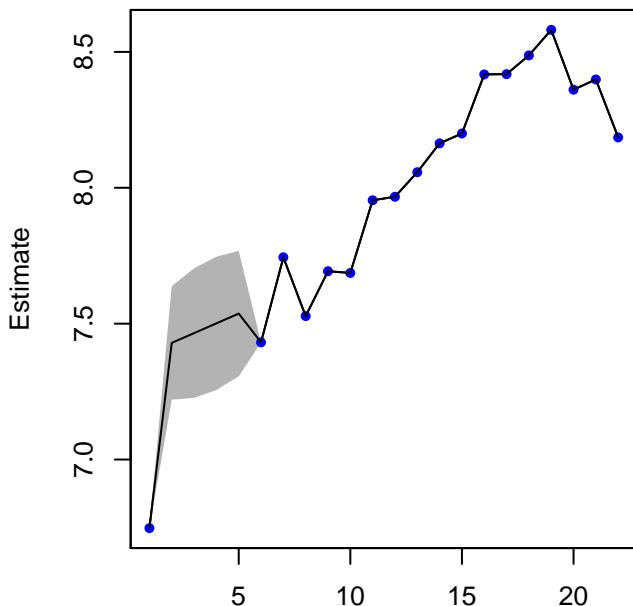
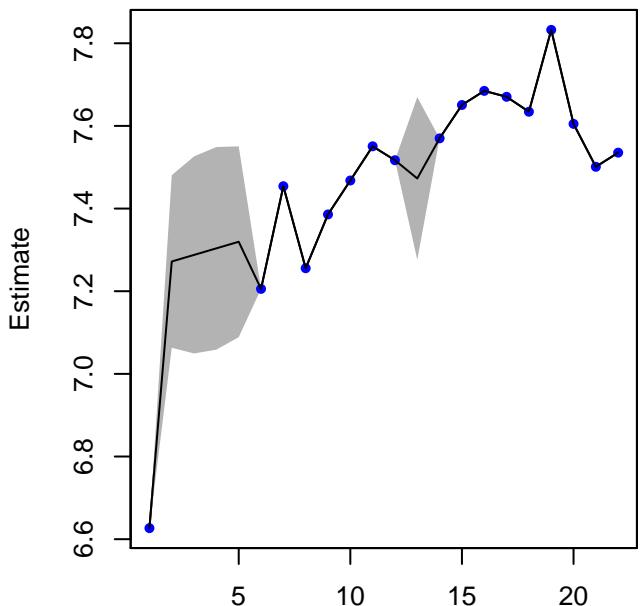


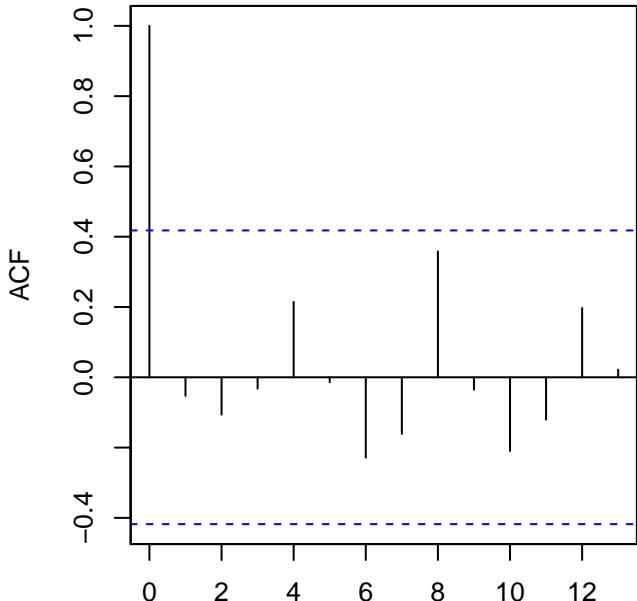
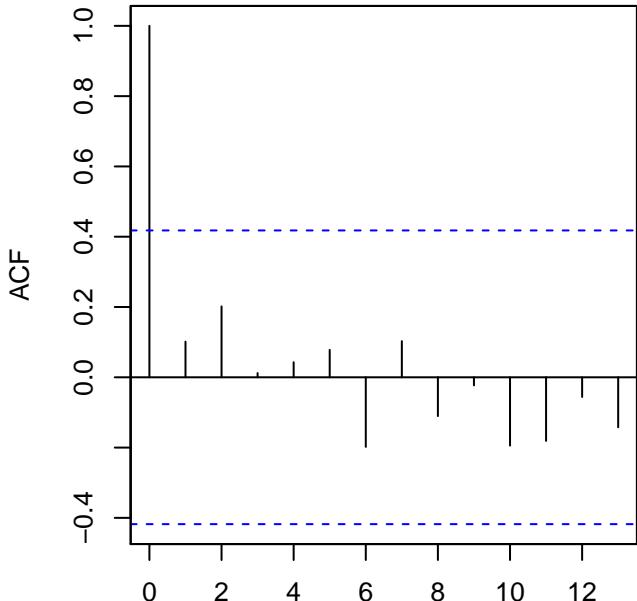
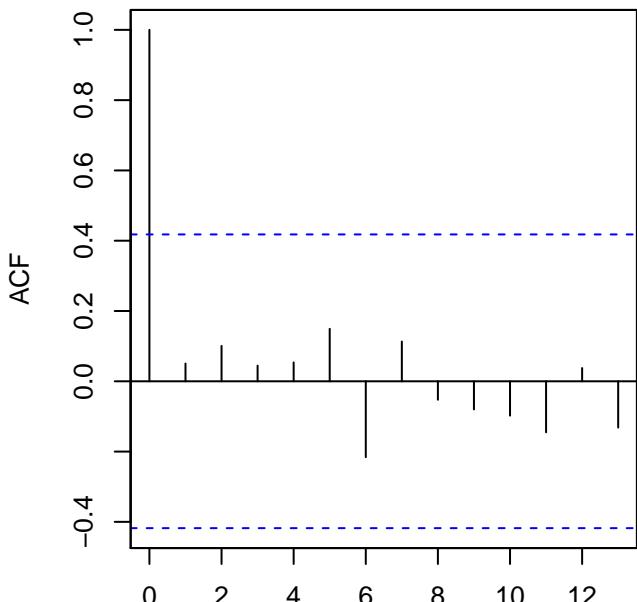
SJFObservation residuals, $y - E[y]$ **SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

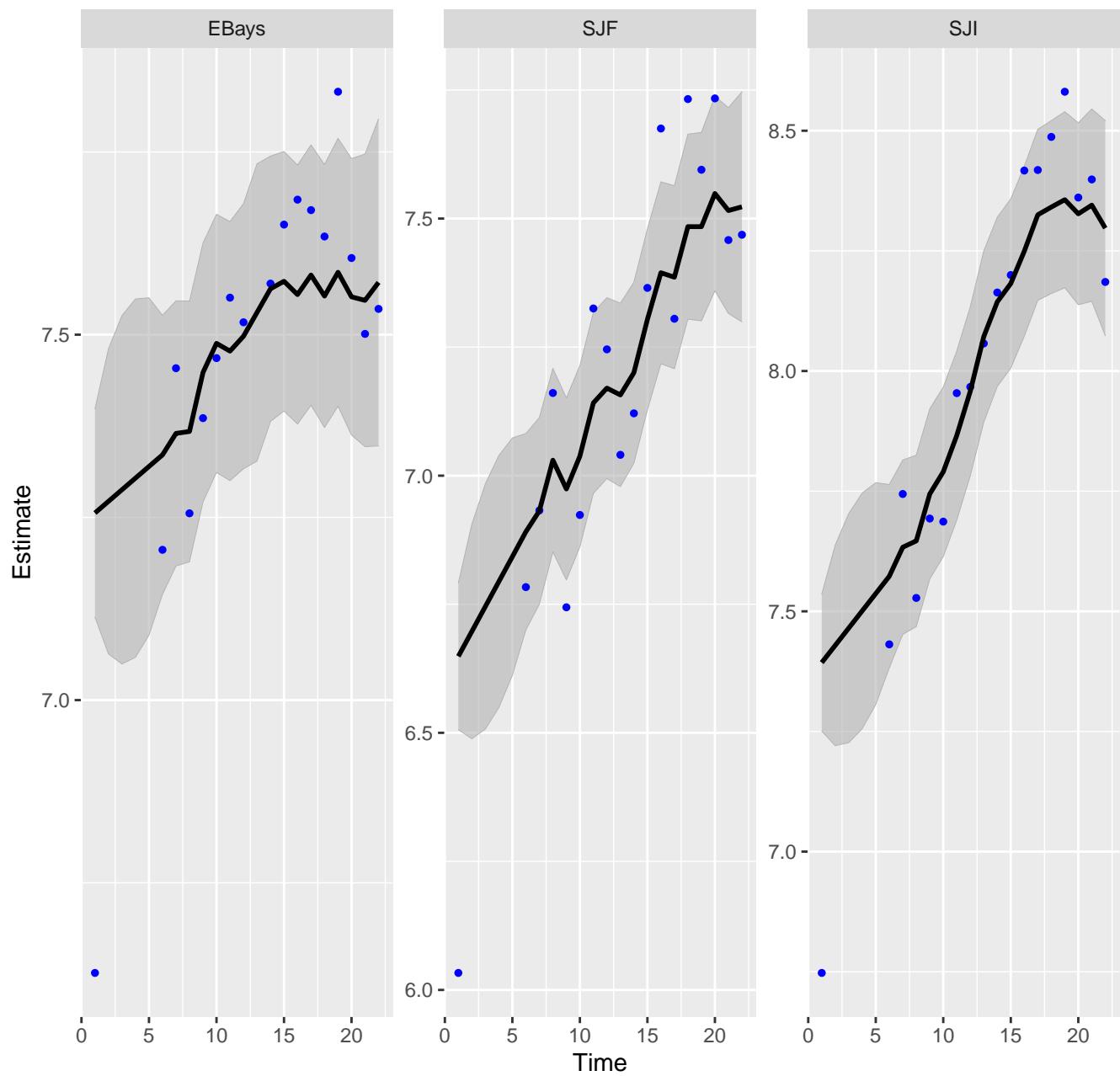
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

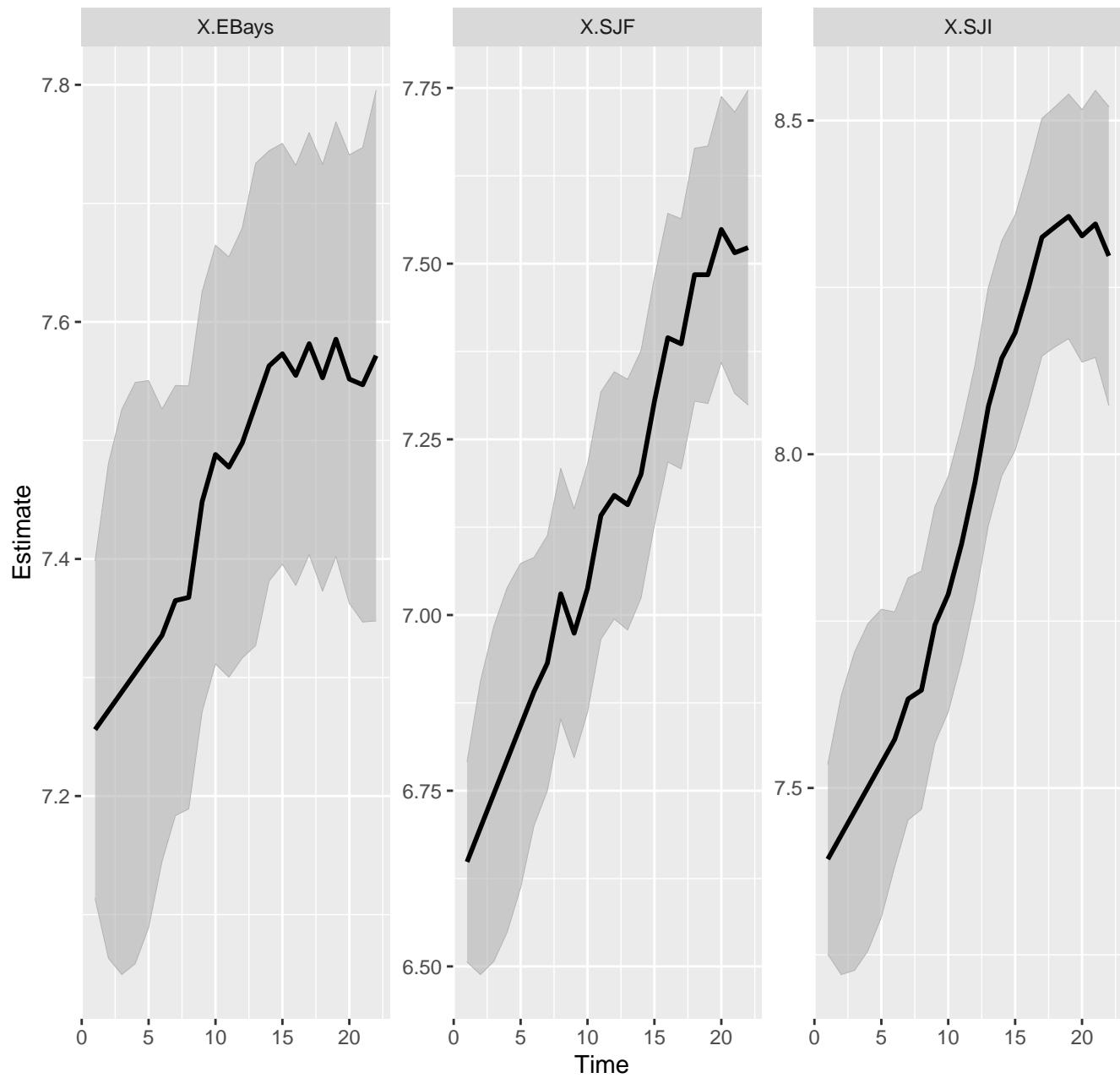
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

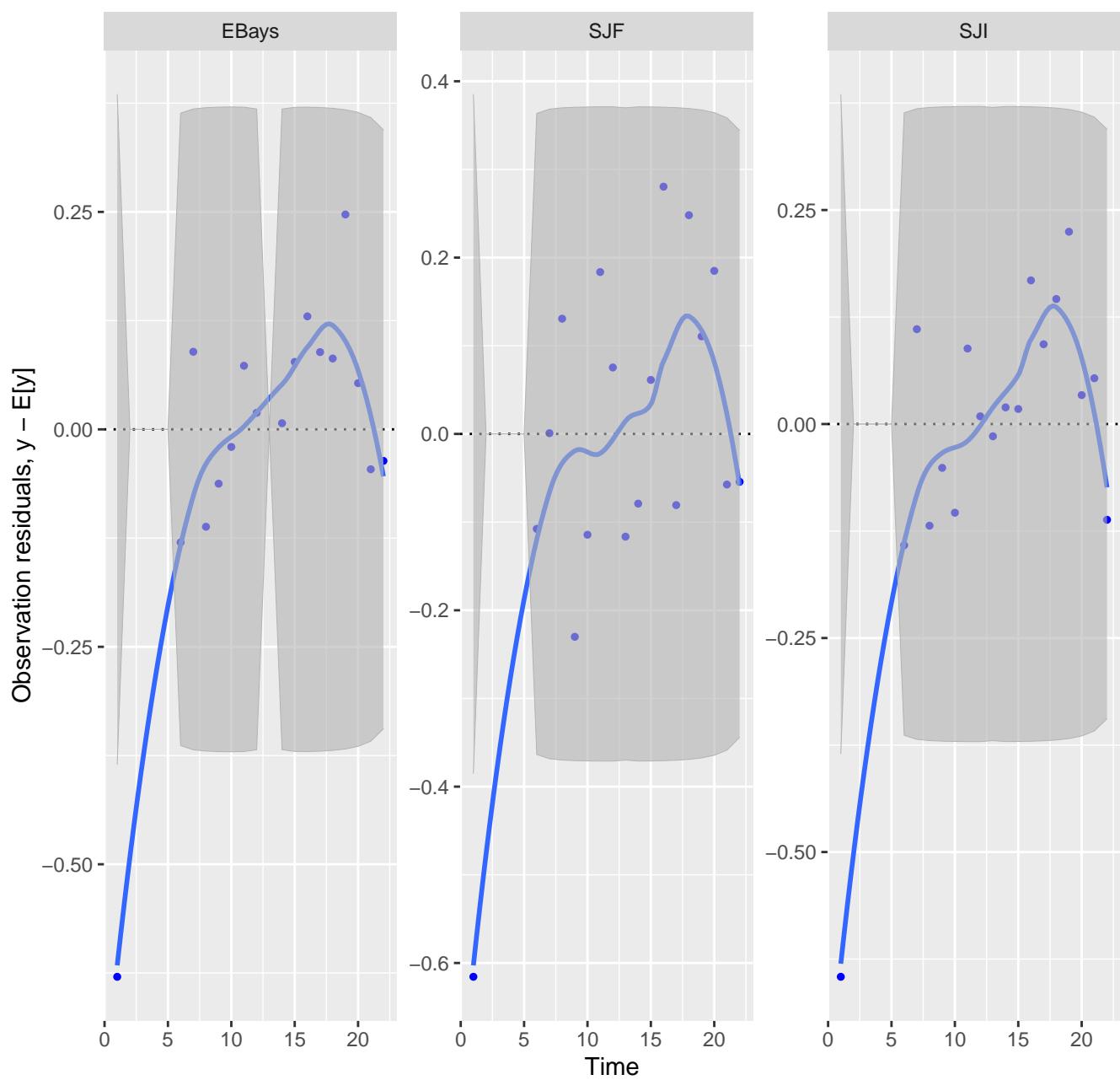
Model fitted Y + CI



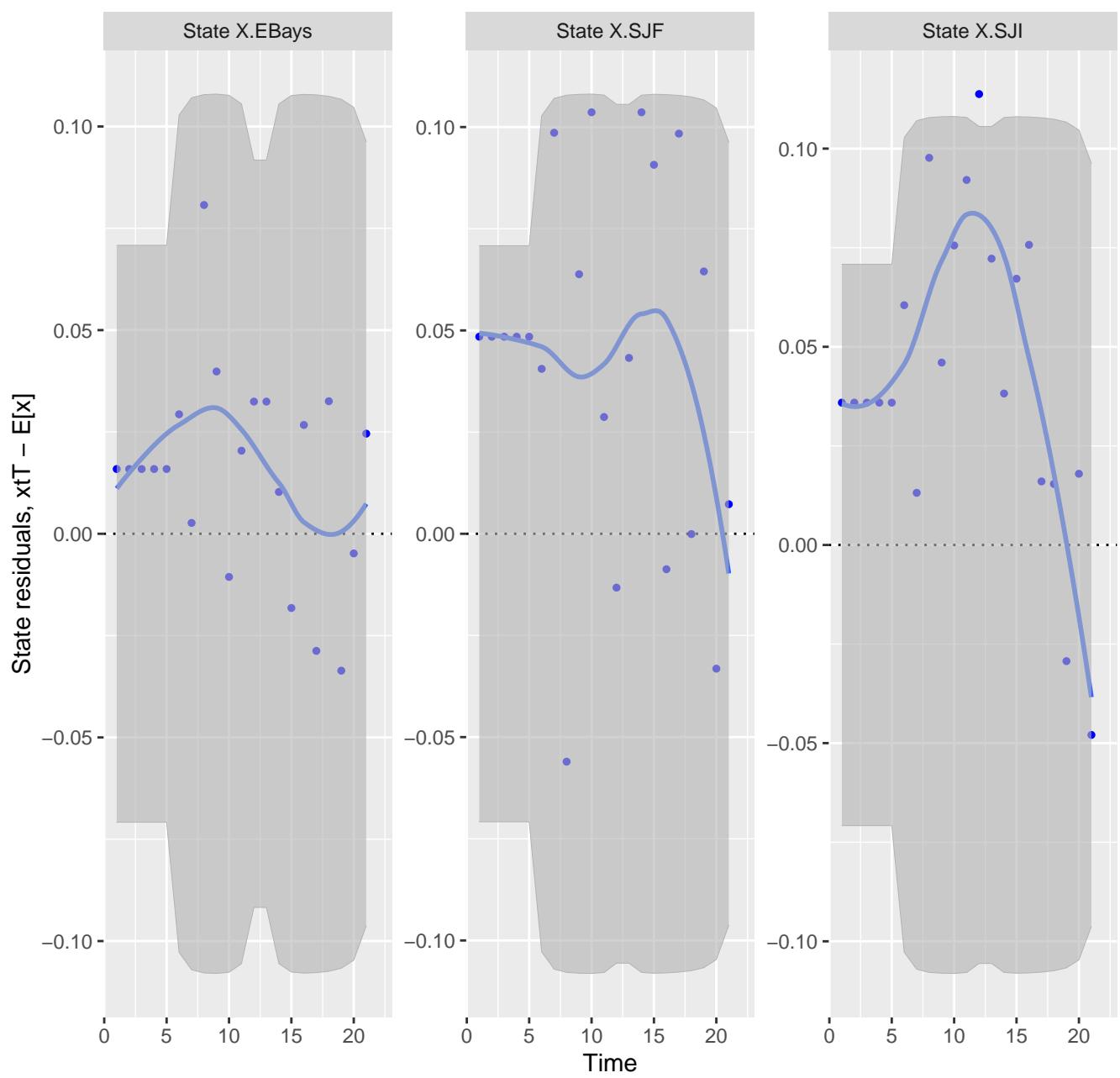
States



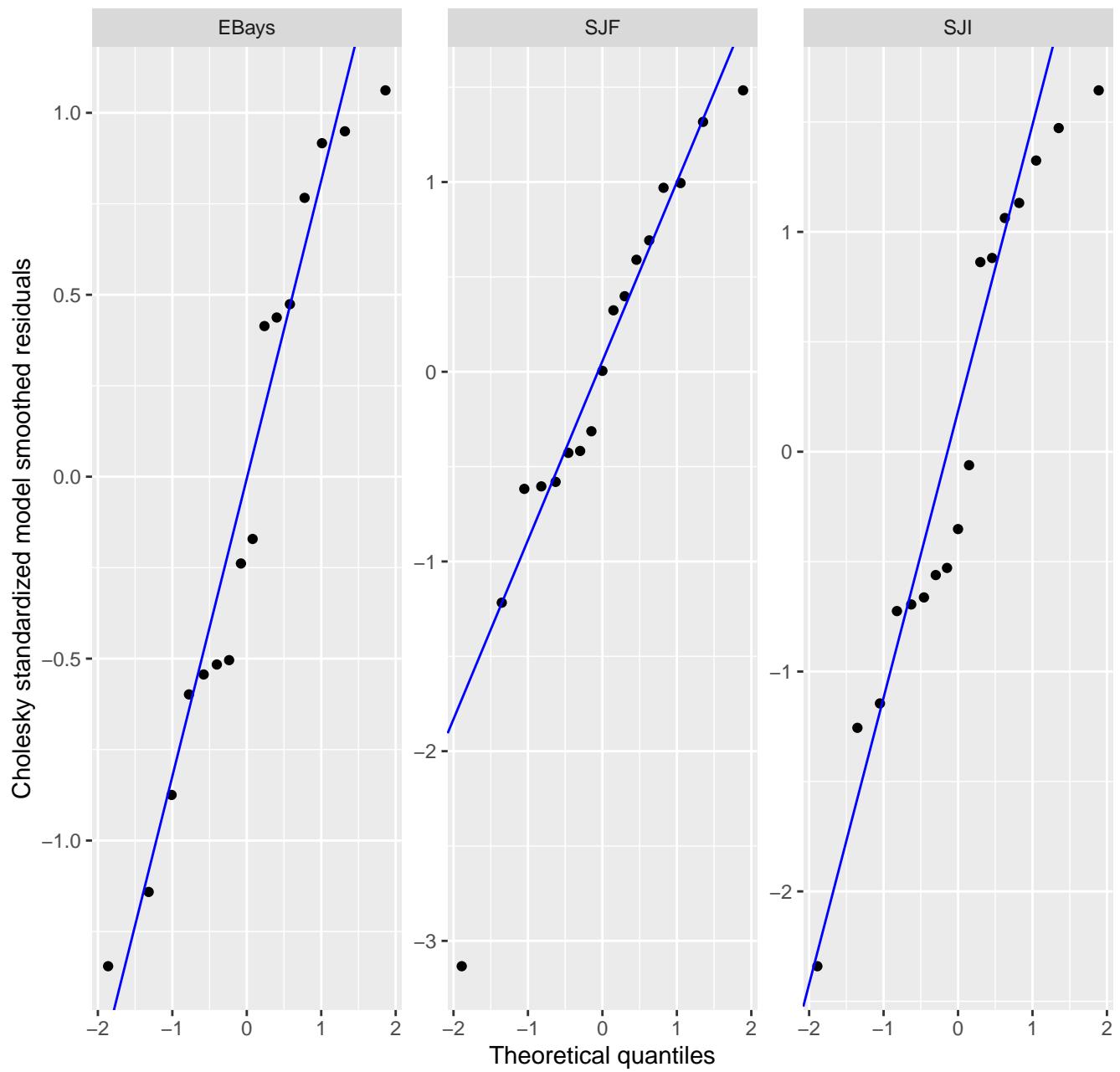
Model residuals



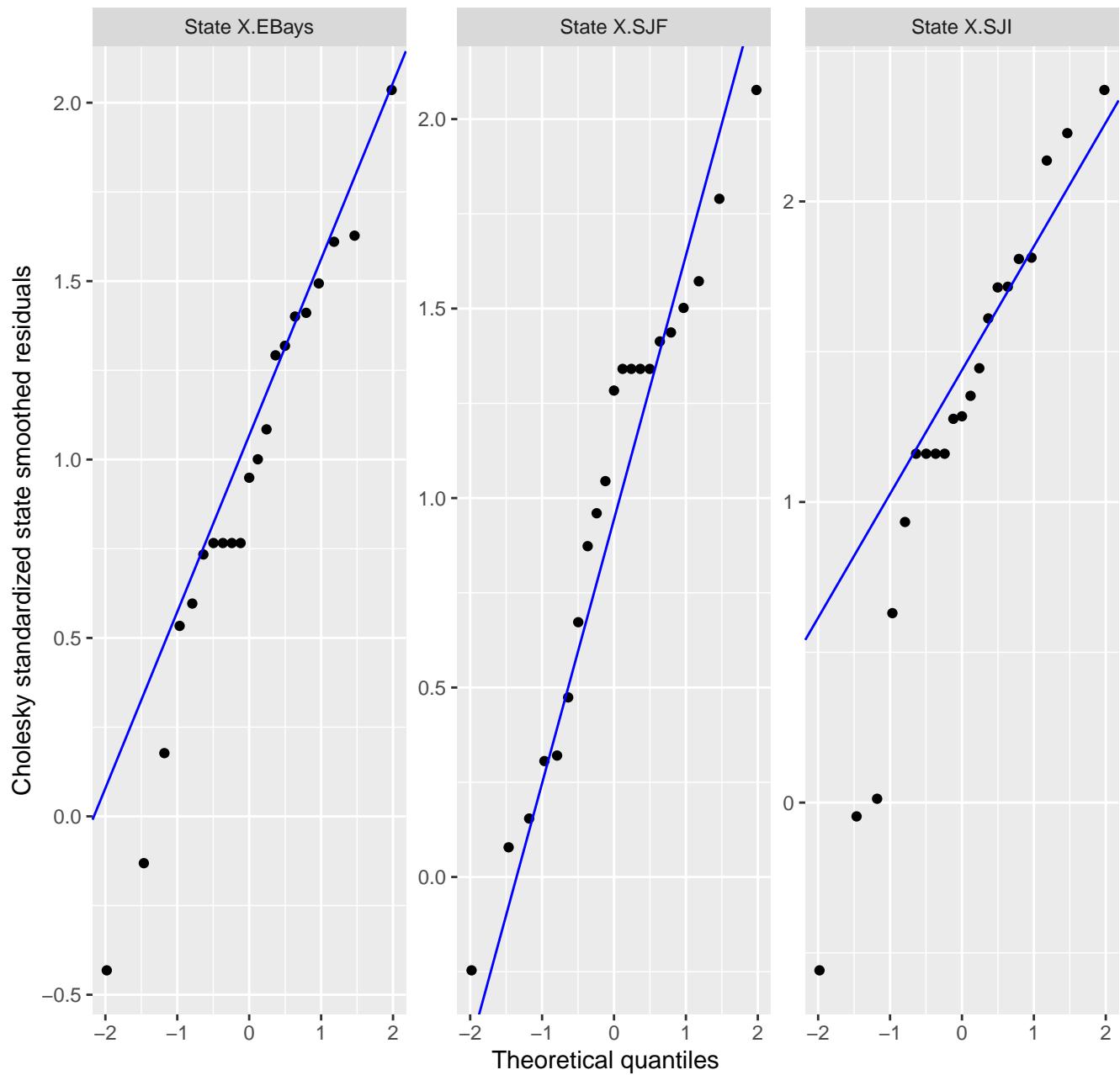
State residuals



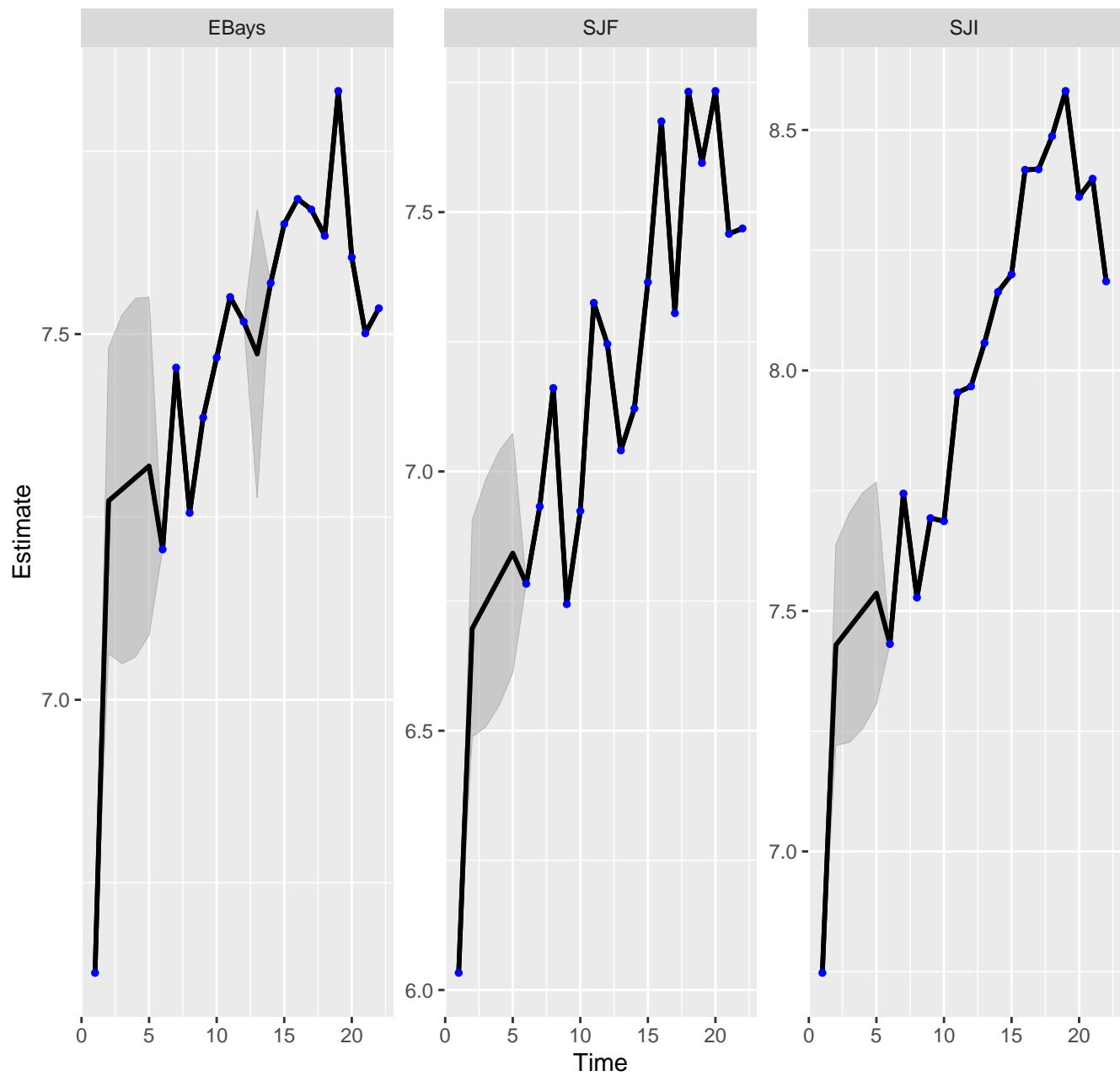
Model residuals normality test



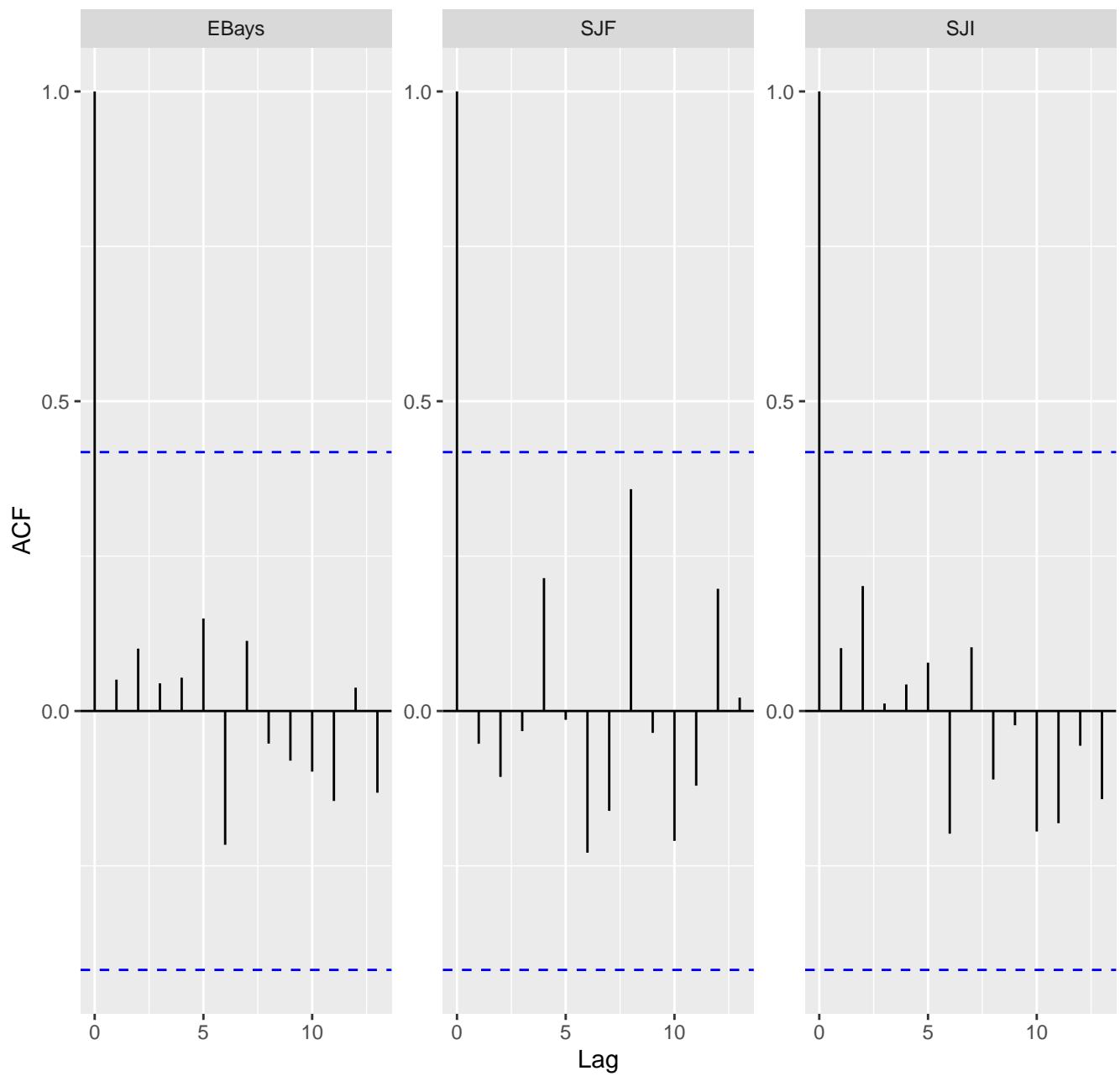
State residuals normality test

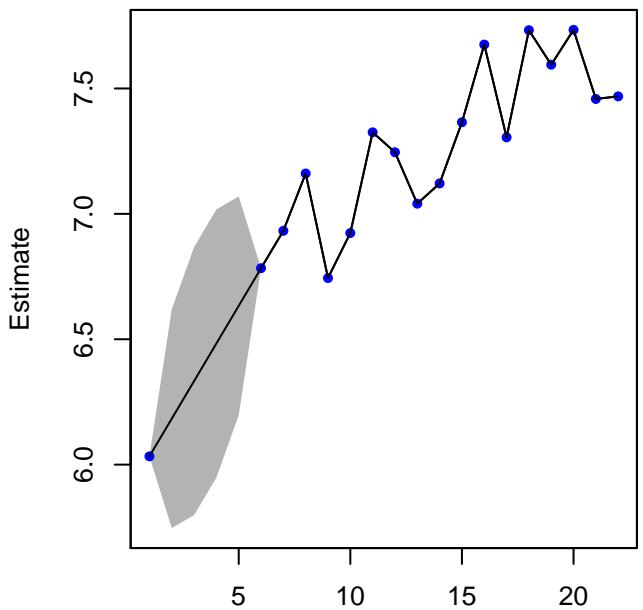
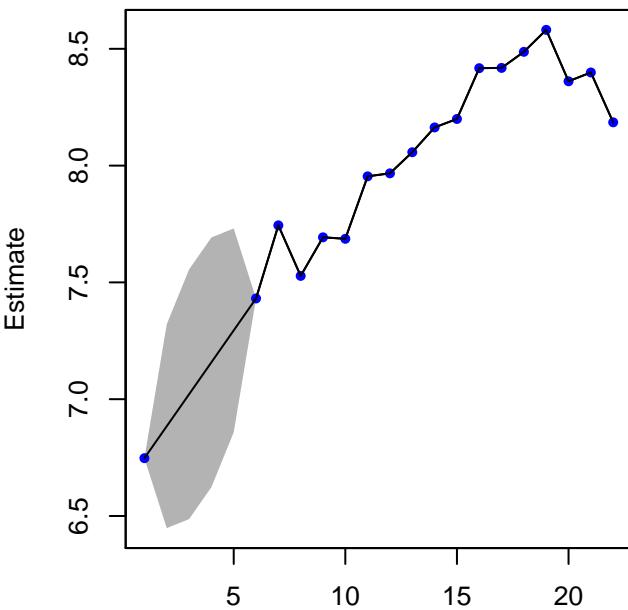
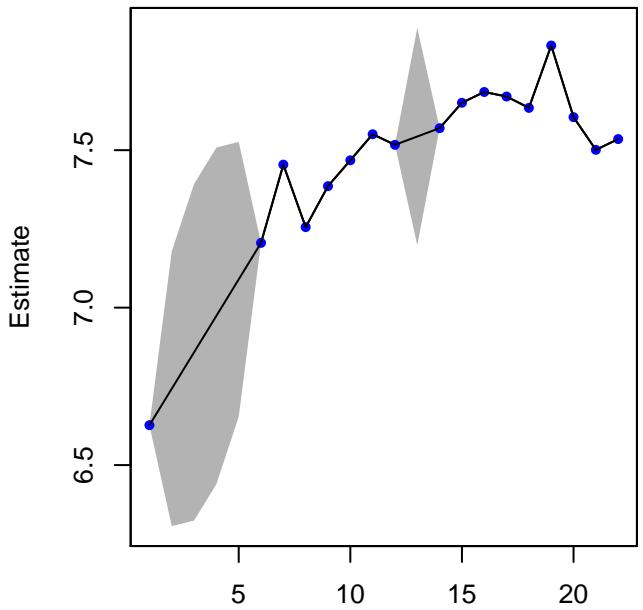


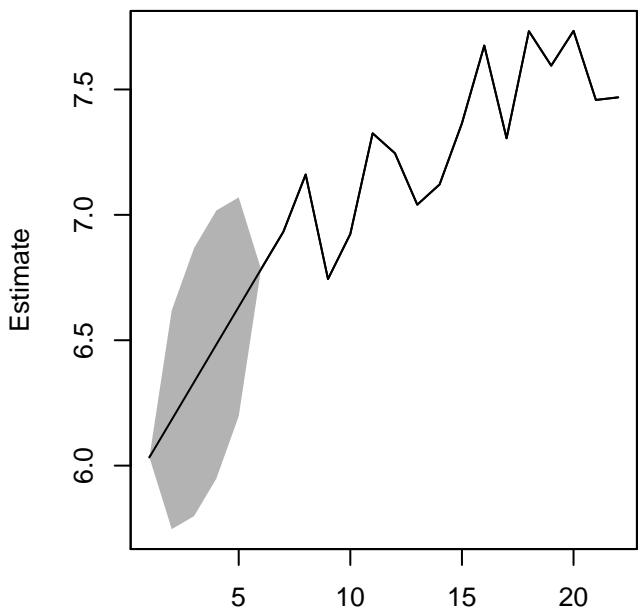
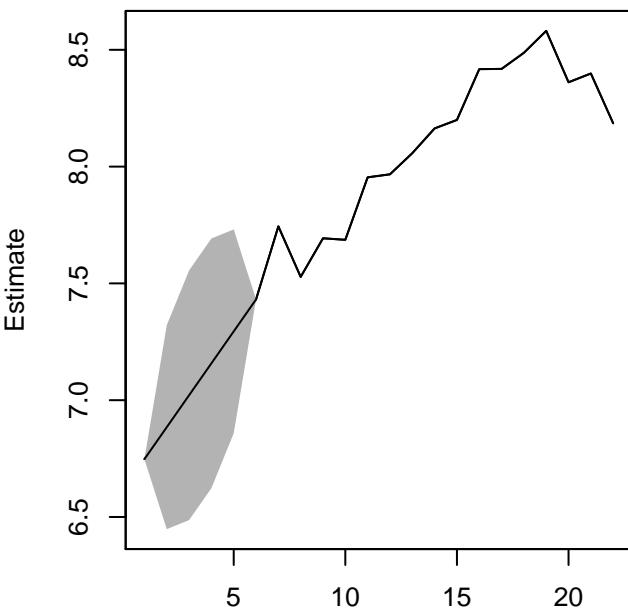
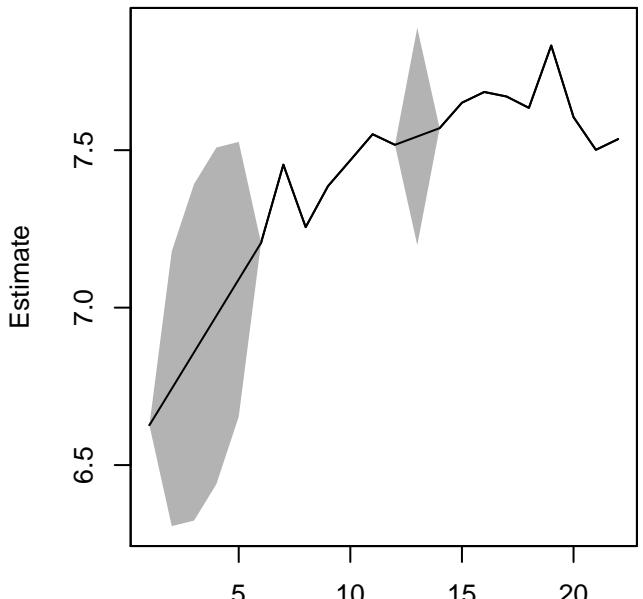
Expected value of Y conditioned on data



Model innovations residuals ACF

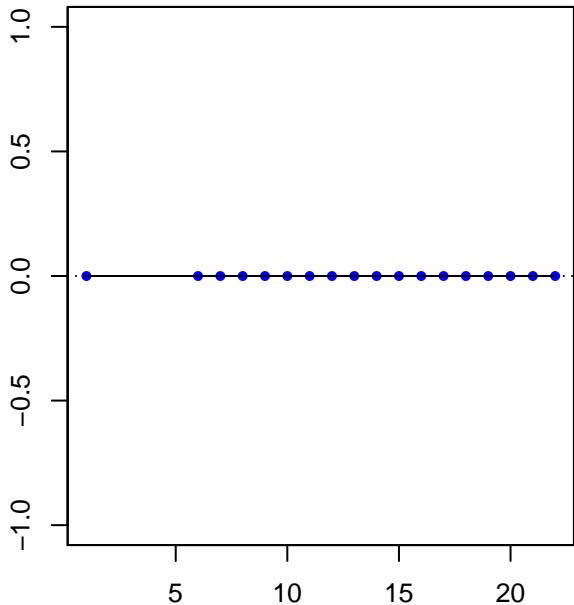


SJF + CI**SJI + CI****EBays + CI**

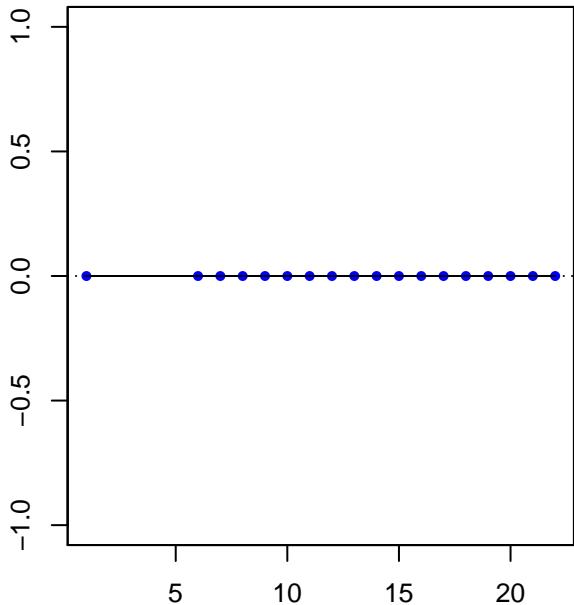
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

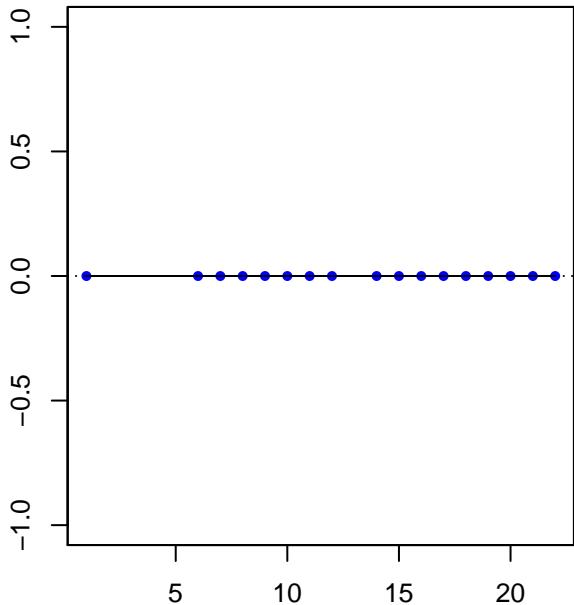
SJF



SJI

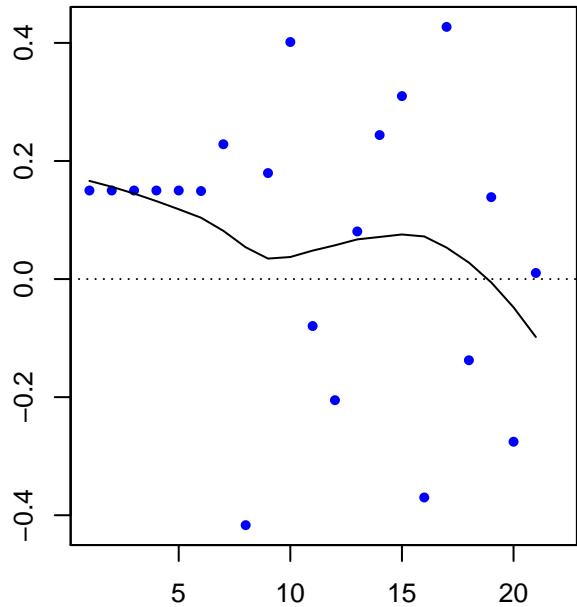


EBays

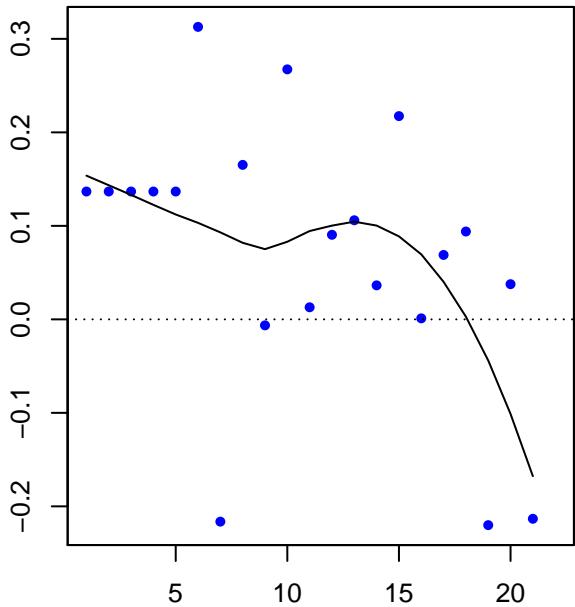


State residuals, $x_{tT} - E[x]$

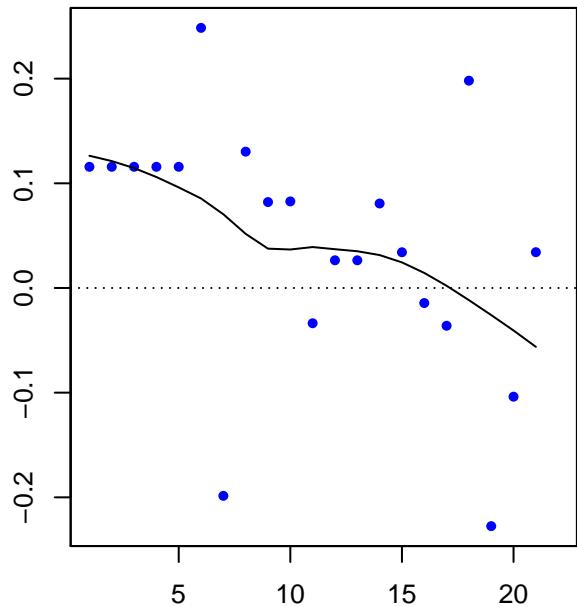
State X.SJF

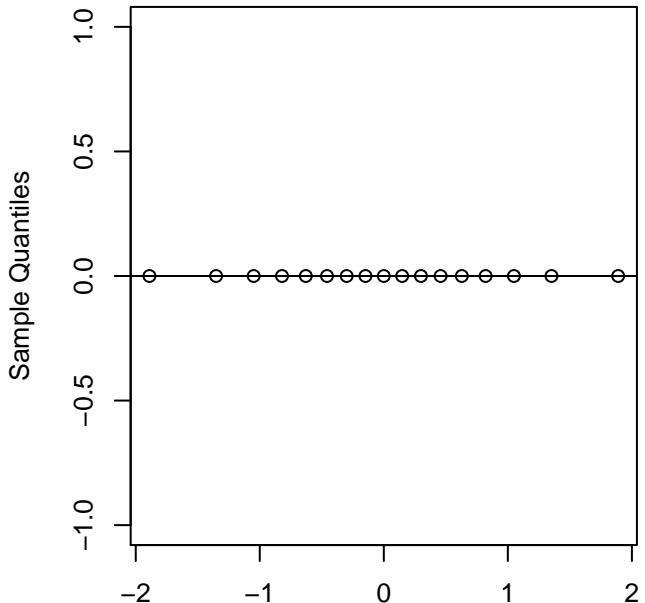
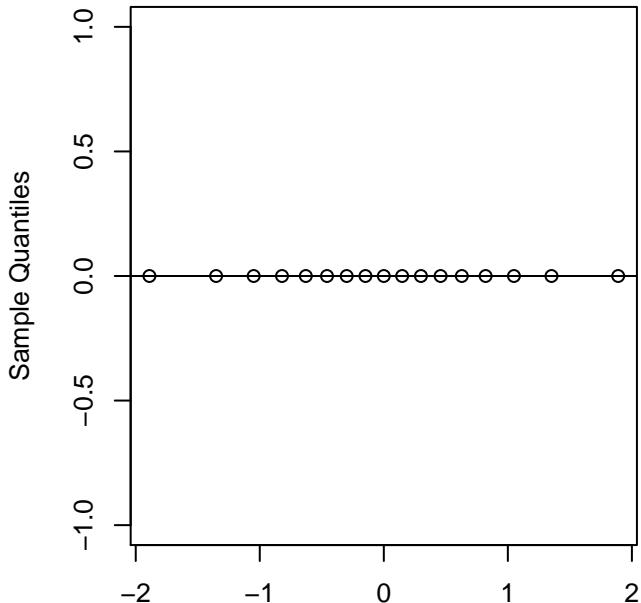
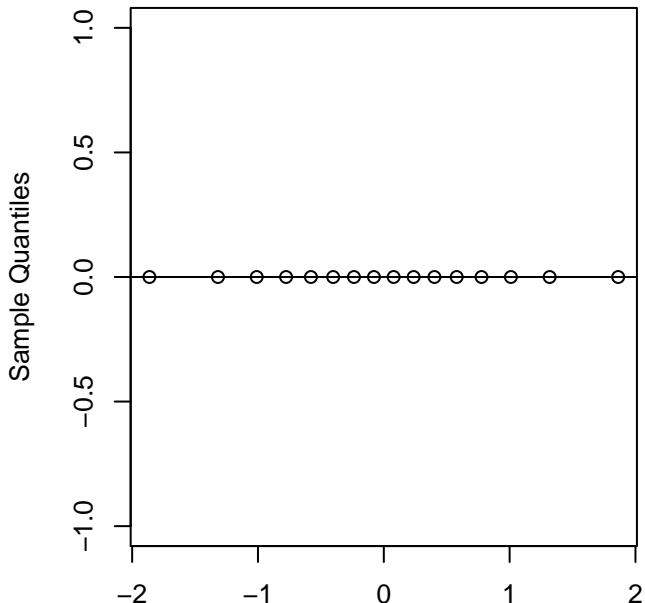


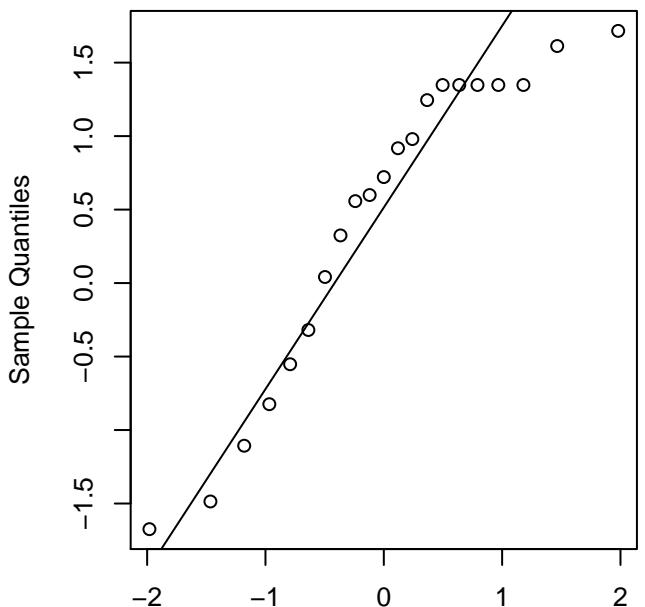
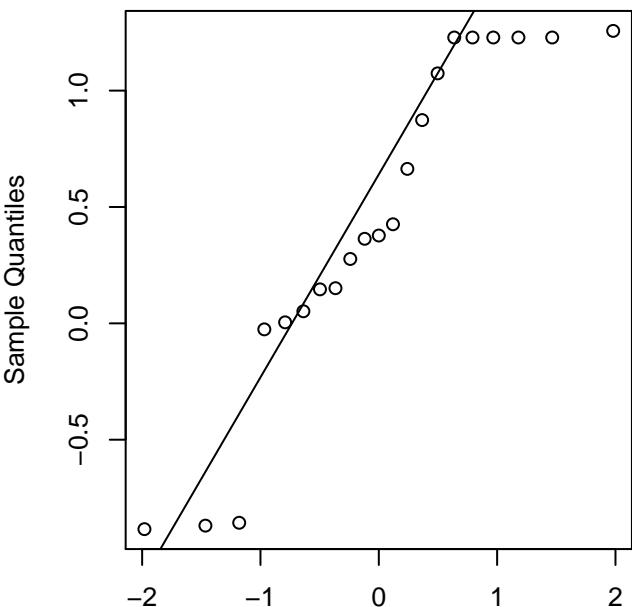
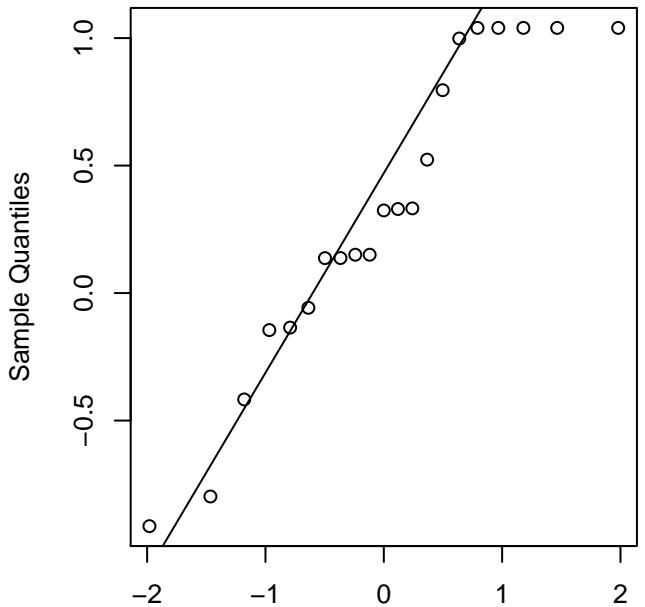
State X.SJI

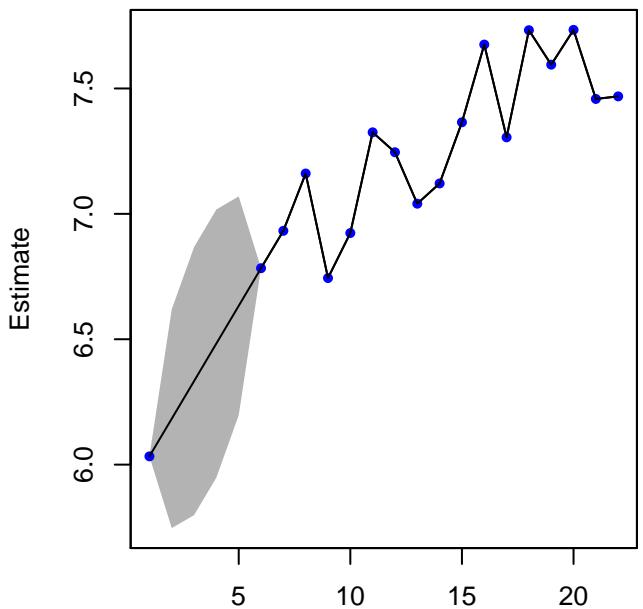
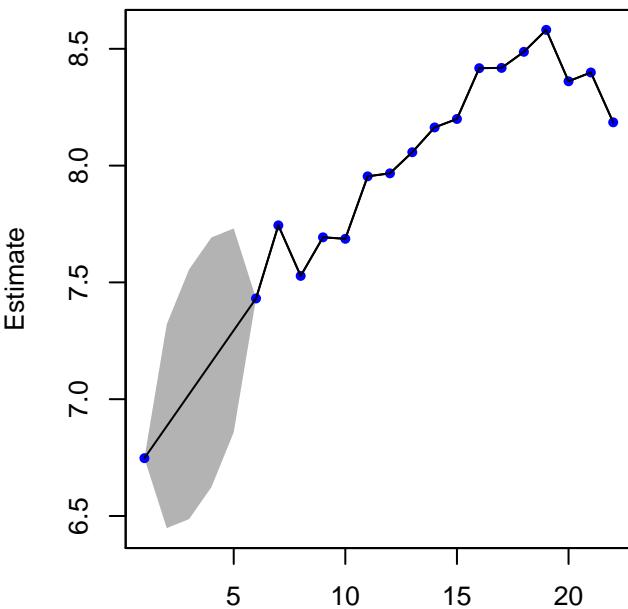
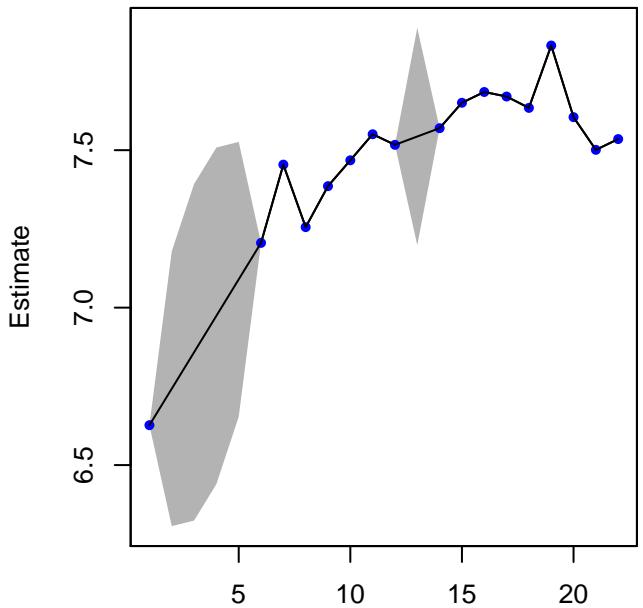


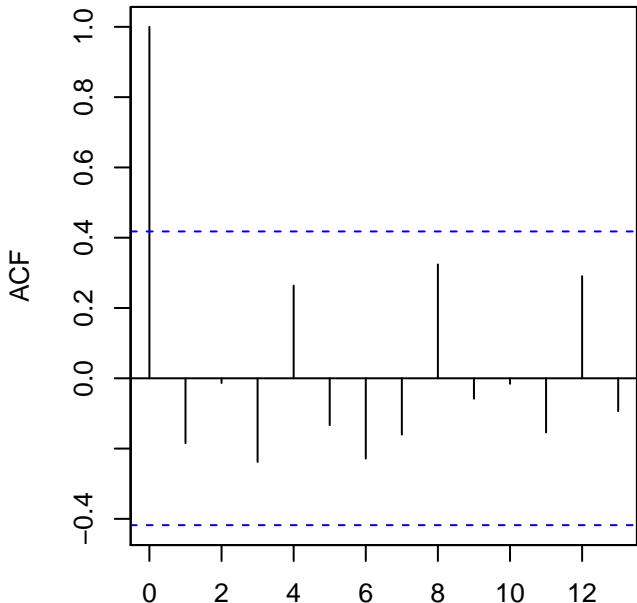
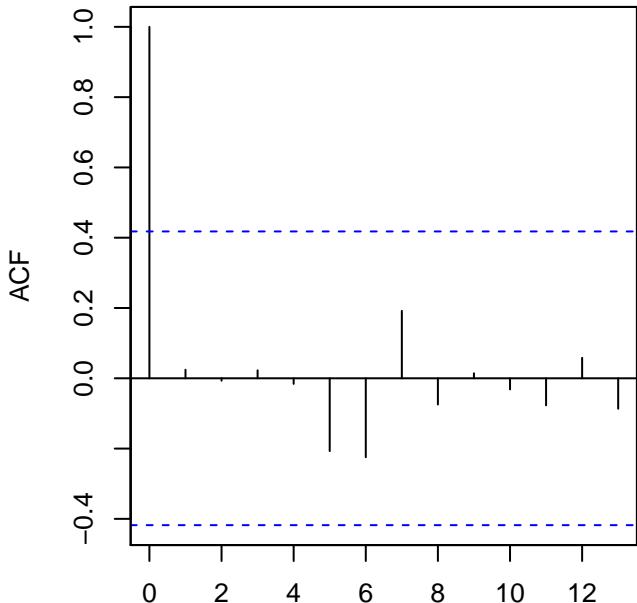
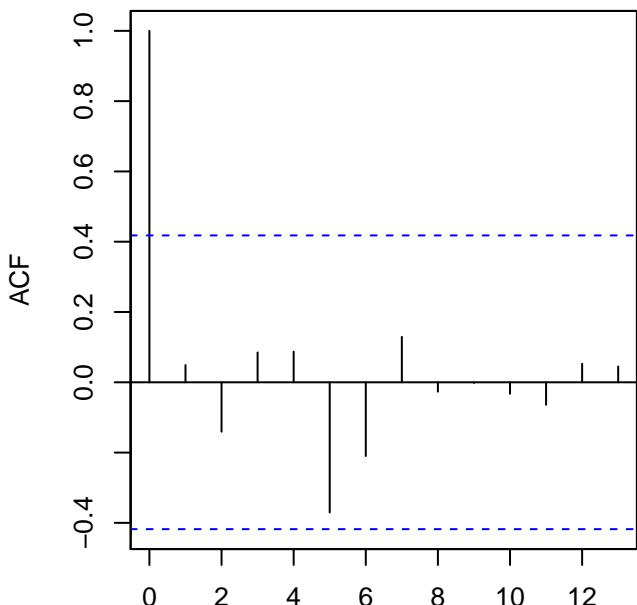
State X.EBays



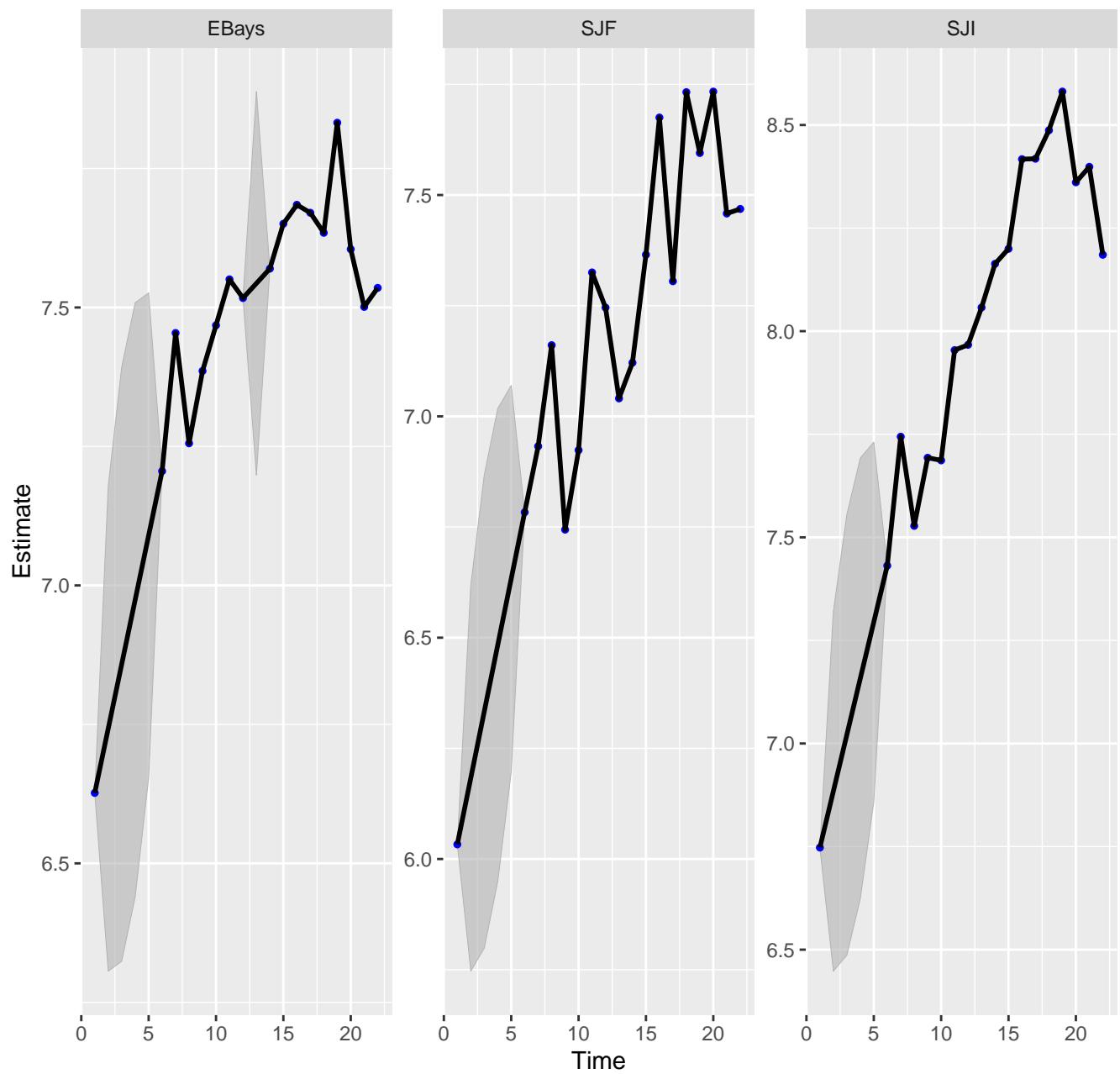
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

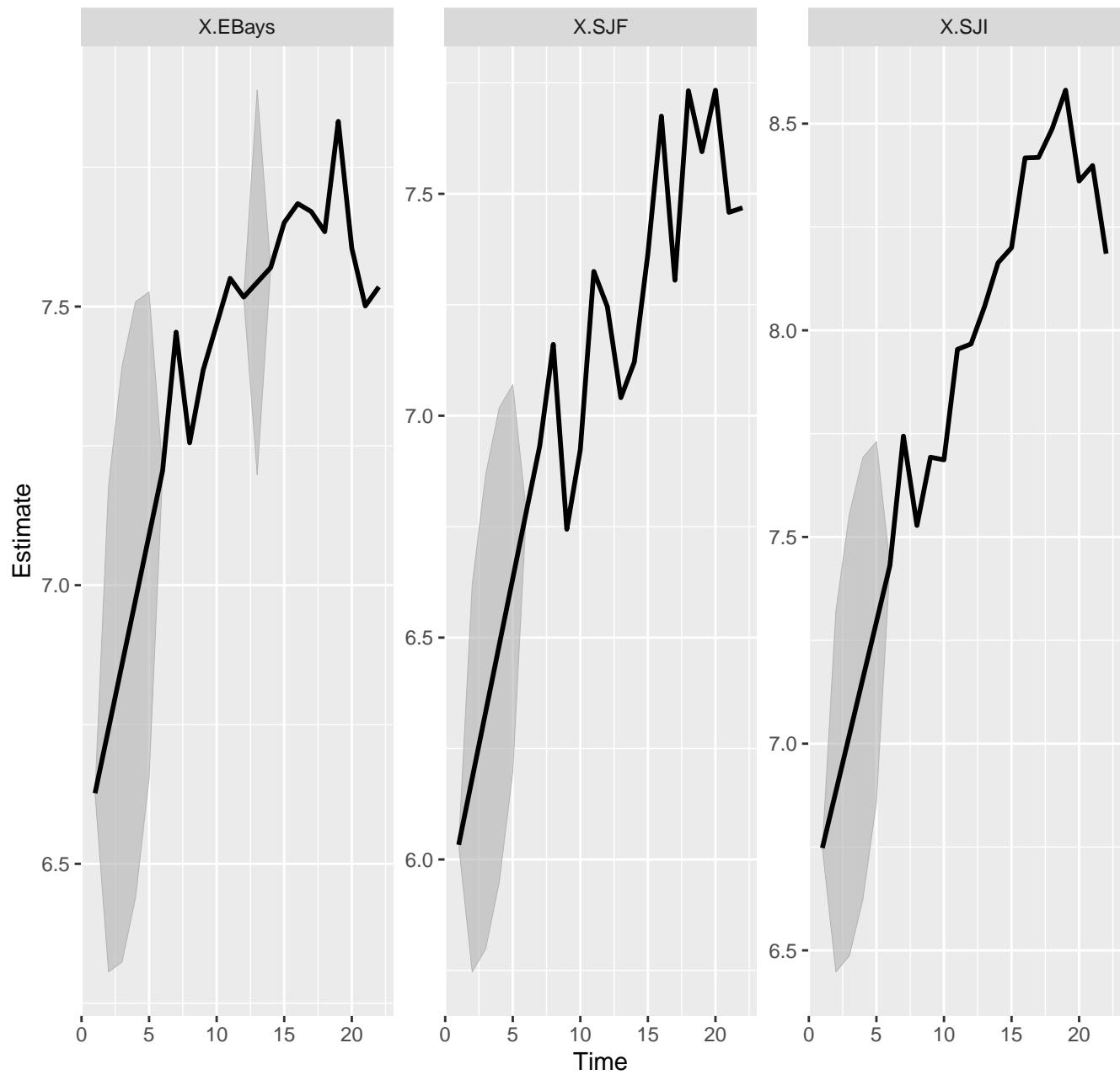
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

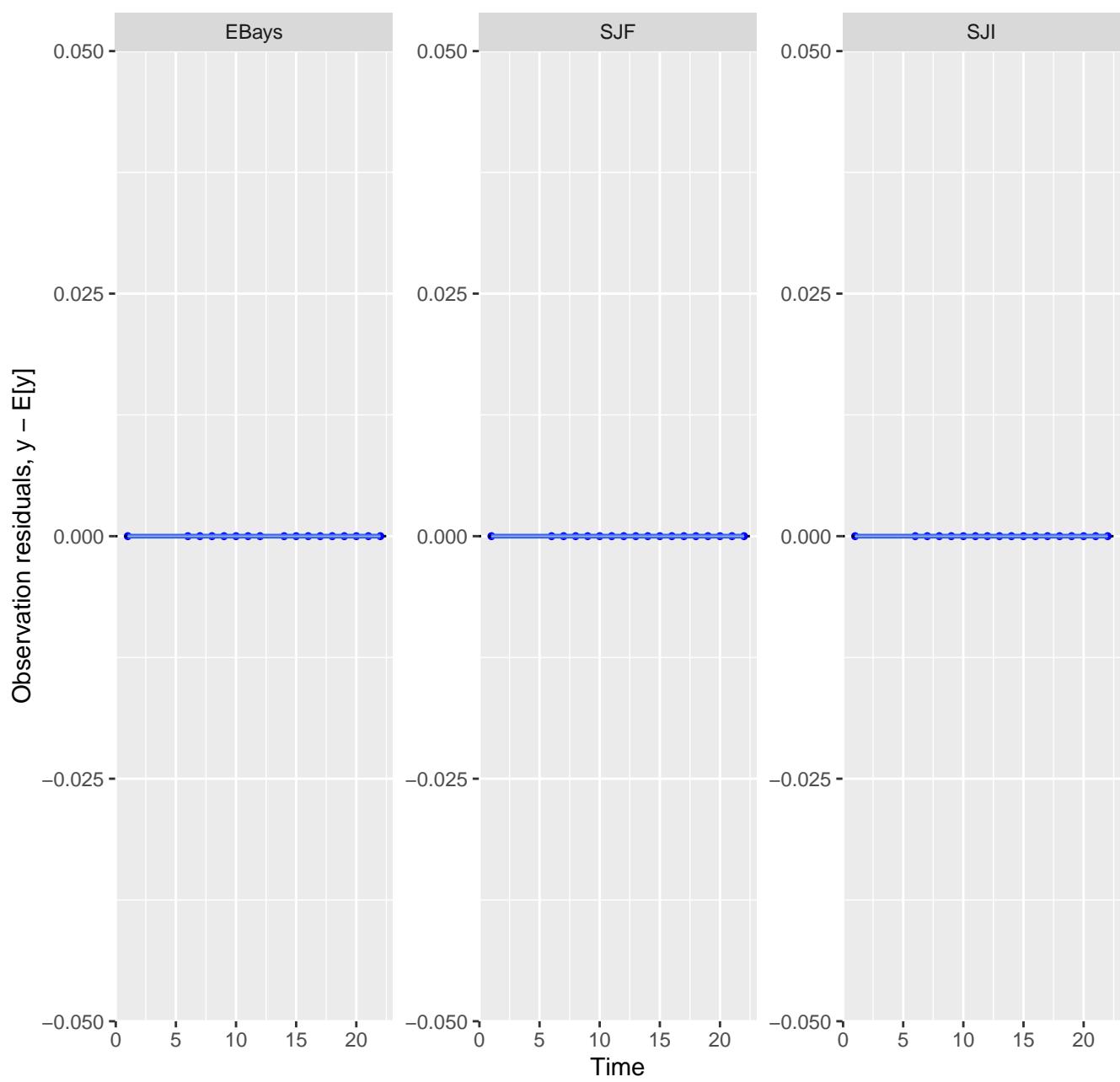
Model fitted Y + CI



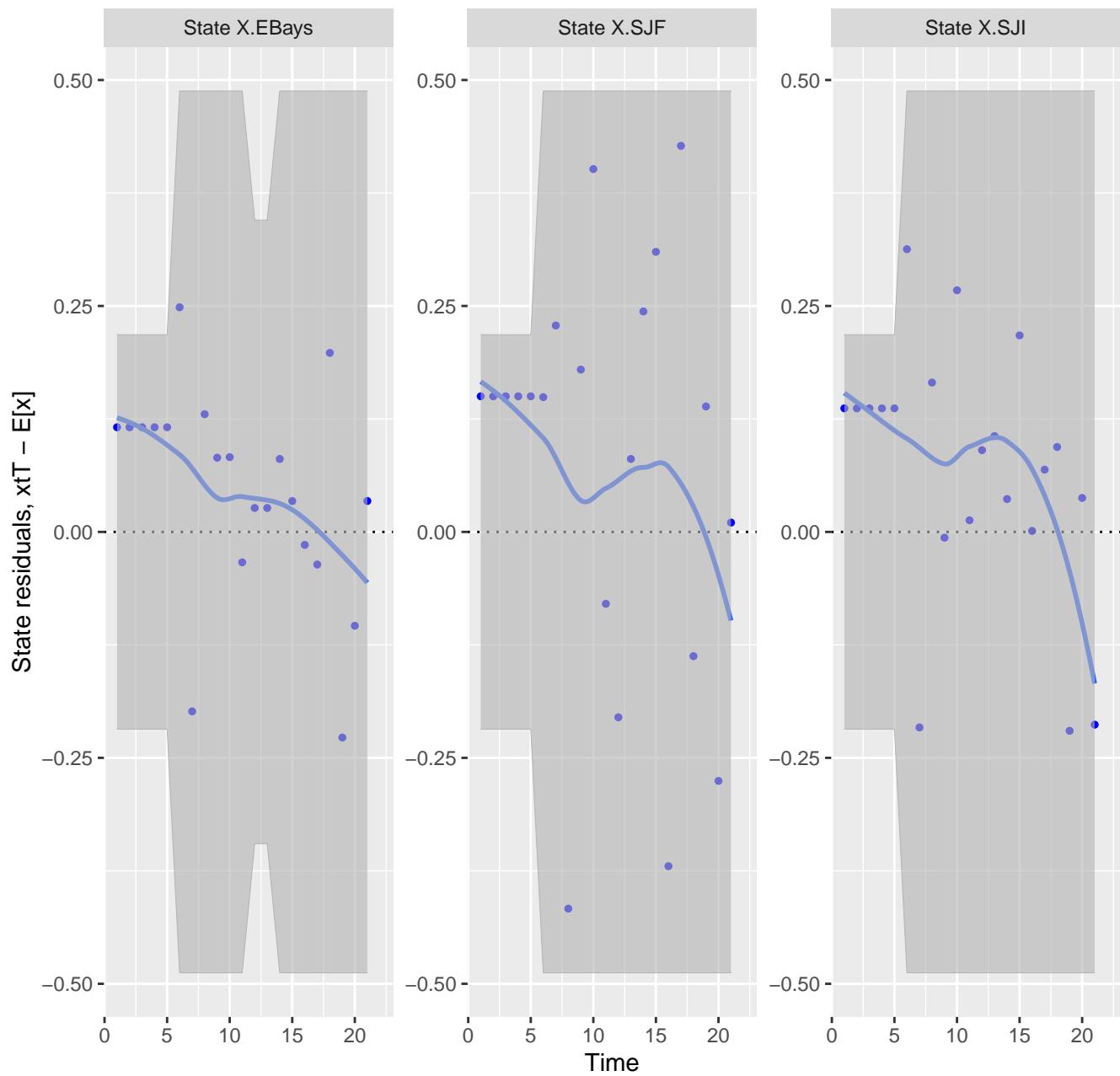
States



Model residuals

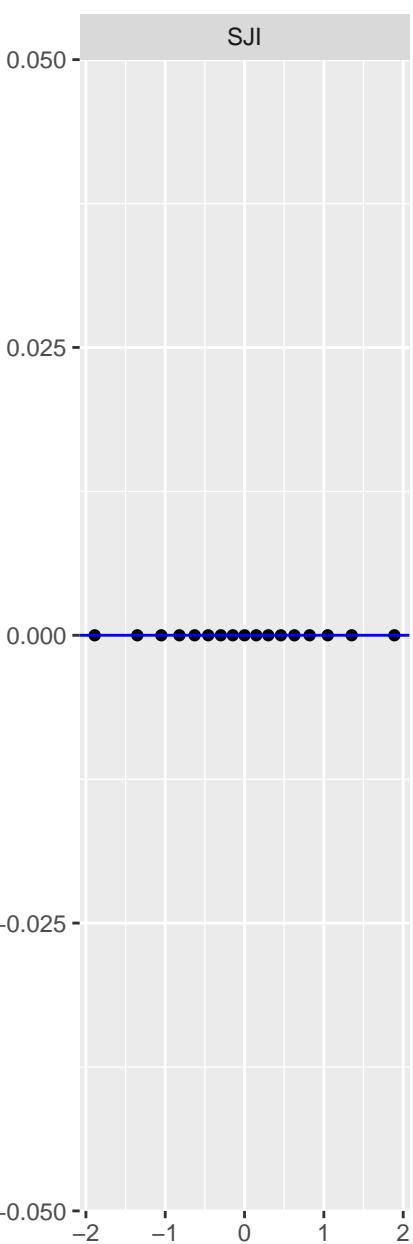
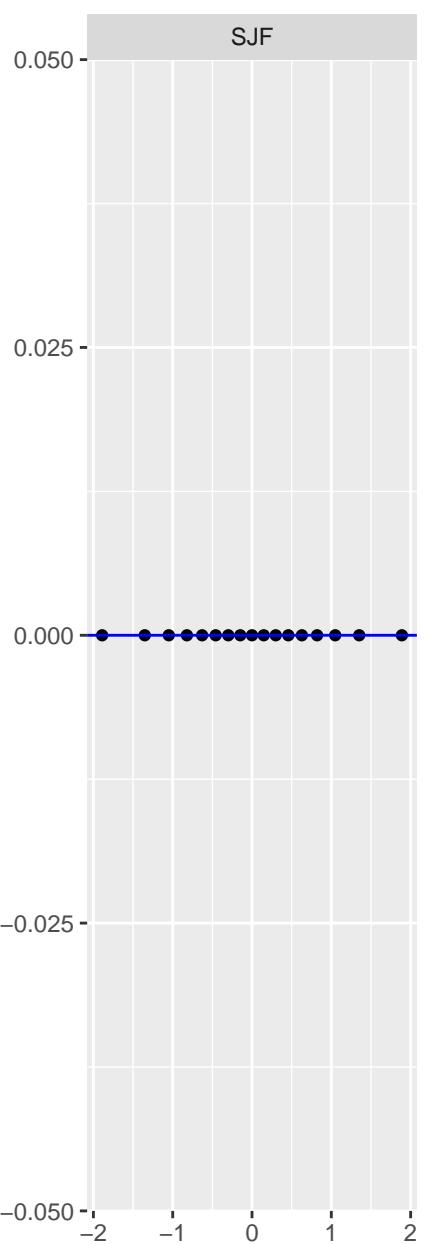
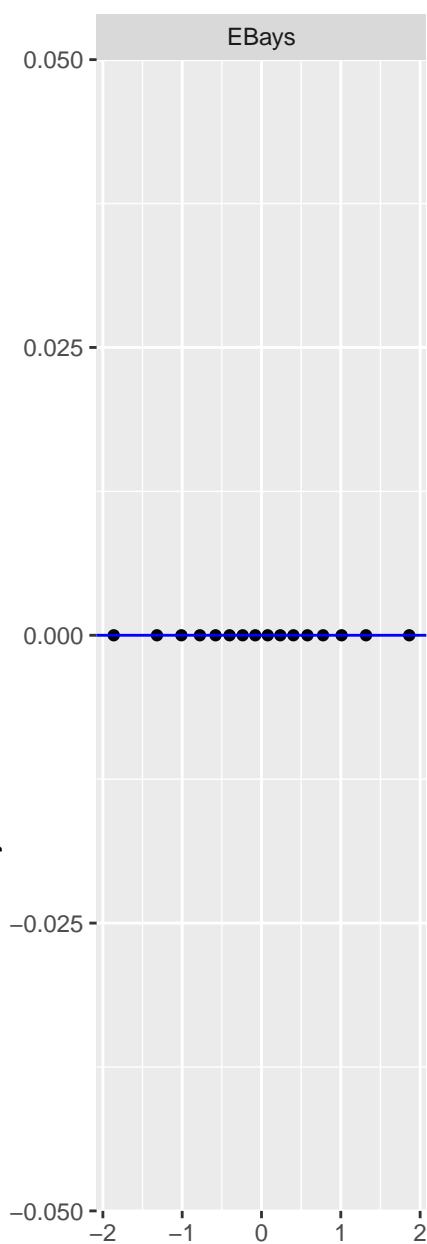


State residuals



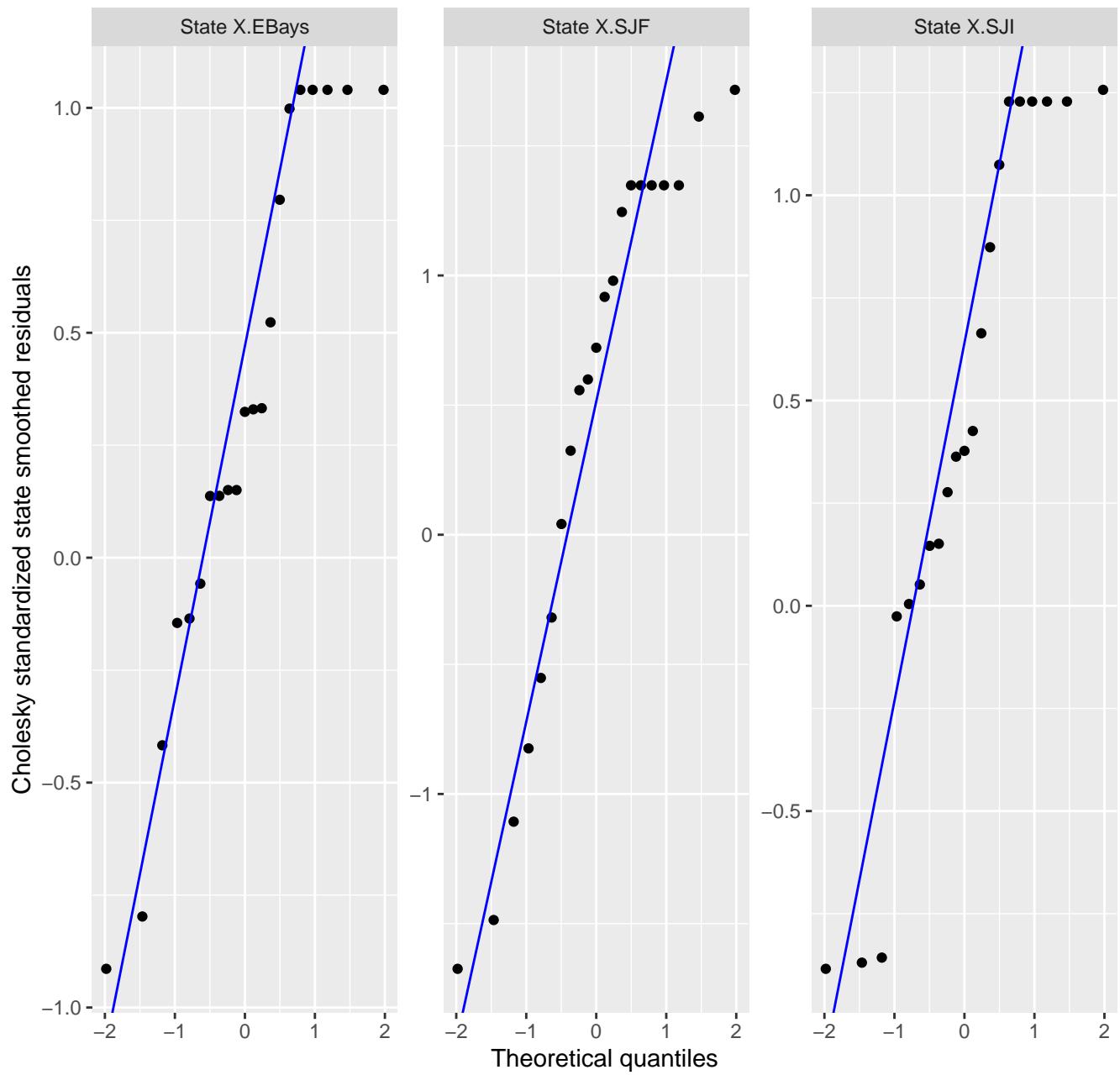
Model residuals normality test

Cholesky standardized model smoothed residuals

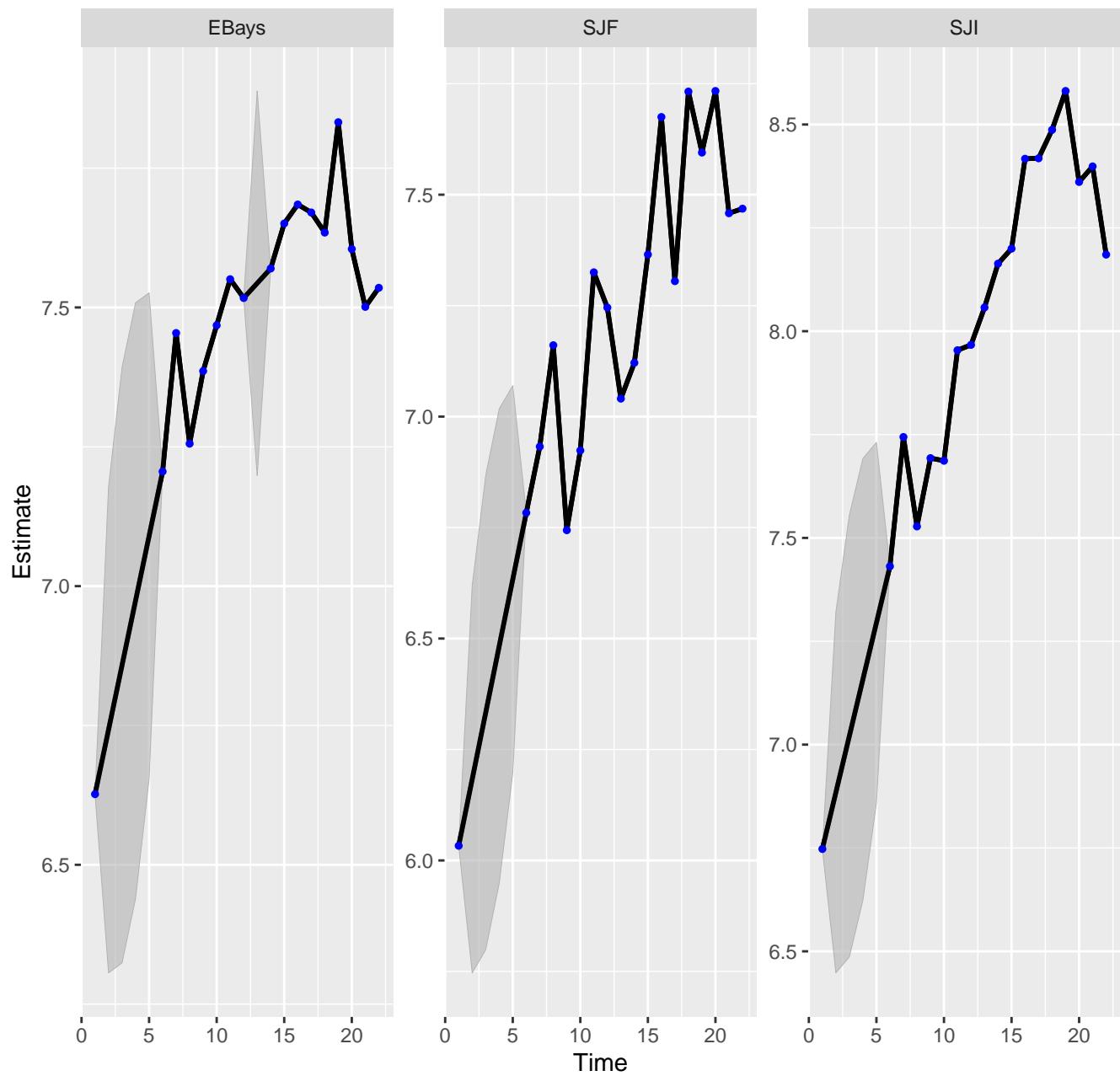


Theoretical quantiles

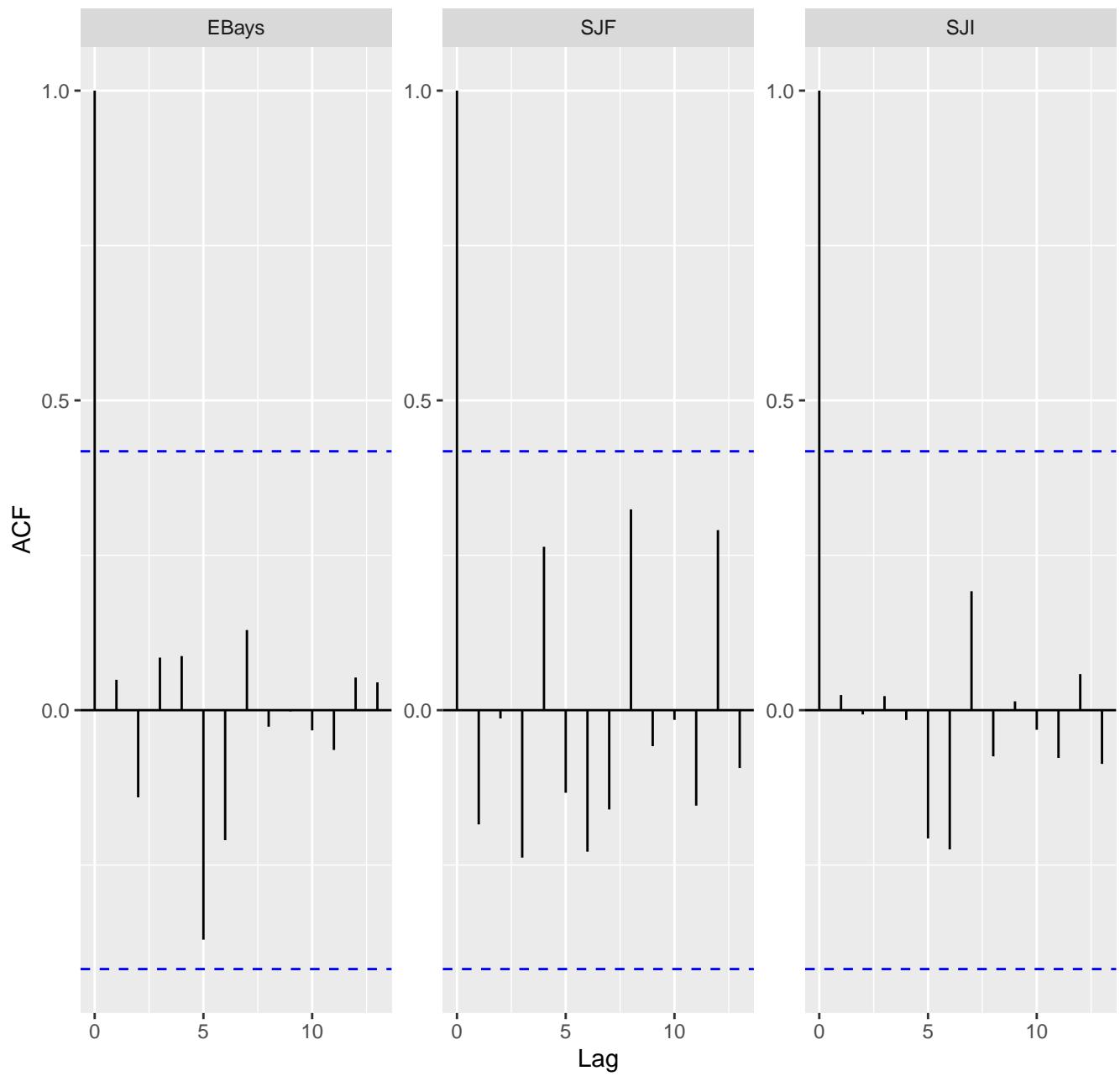
State residuals normality test

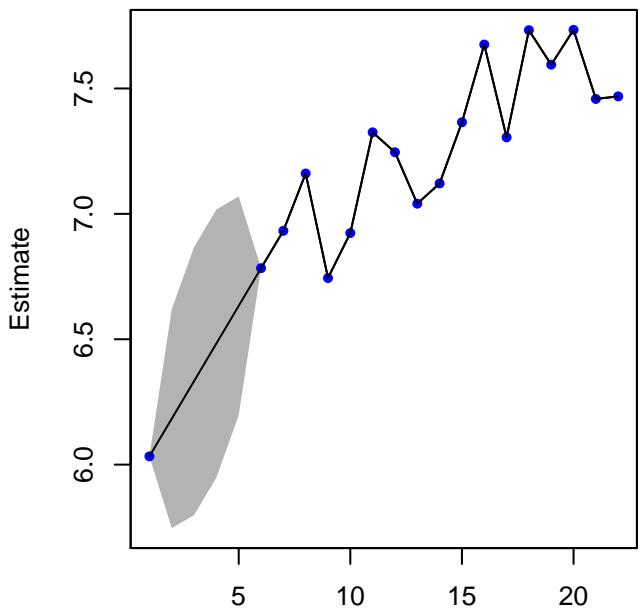
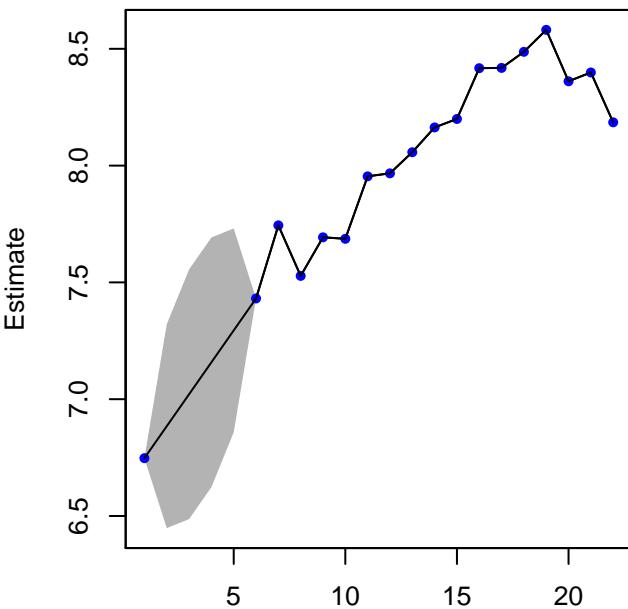
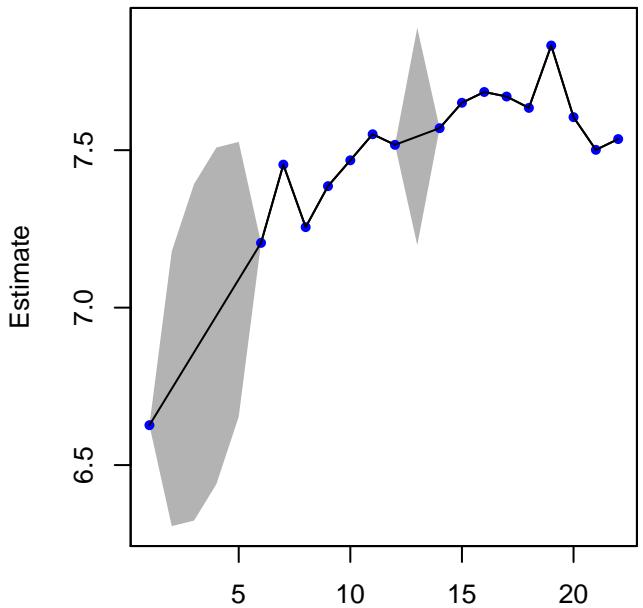


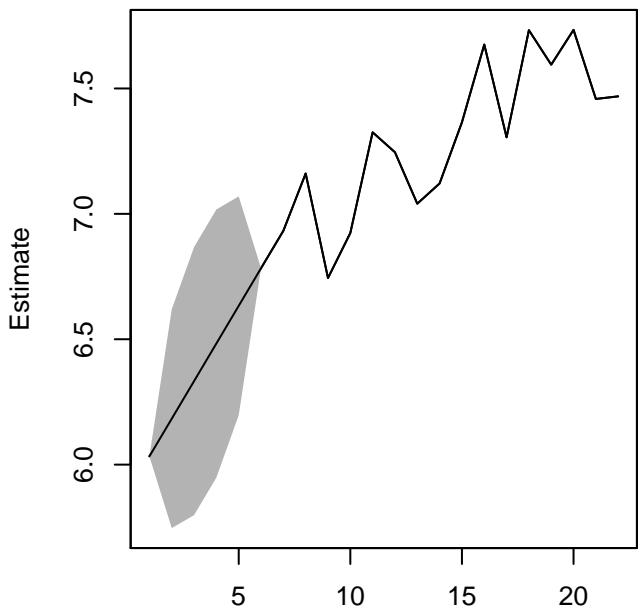
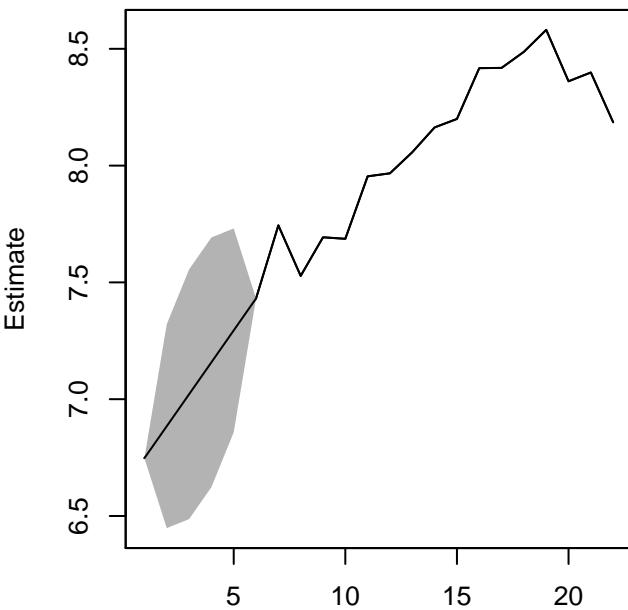
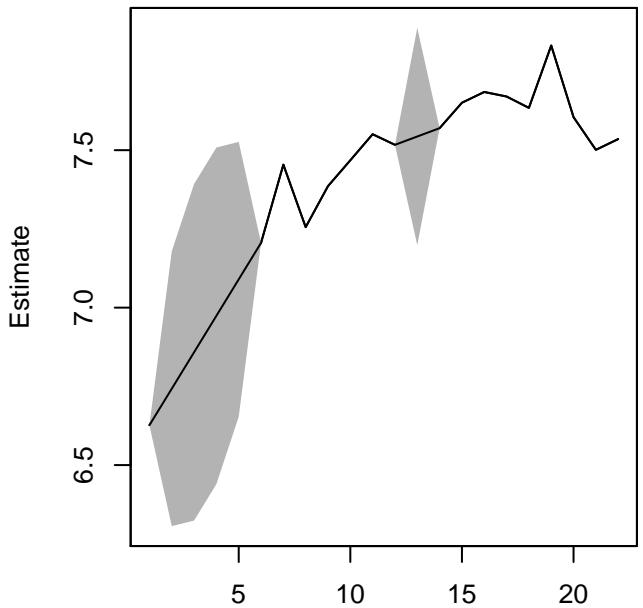
Expected value of Y conditioned on data



Model innovations residuals ACF

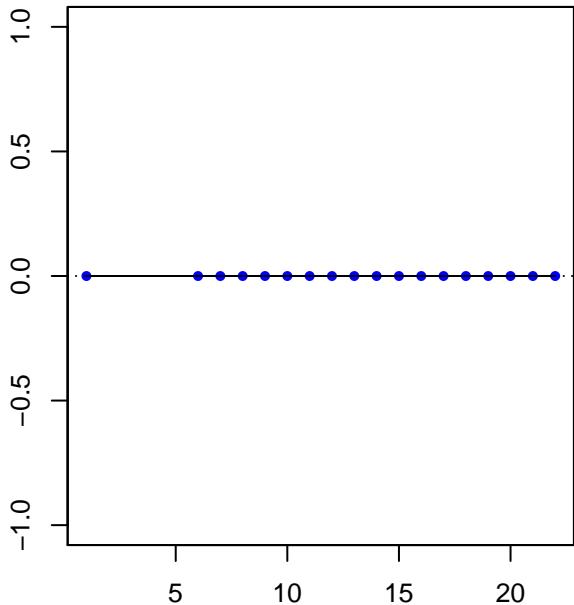


SJF + CI**SJI + CI****EBays + CI**

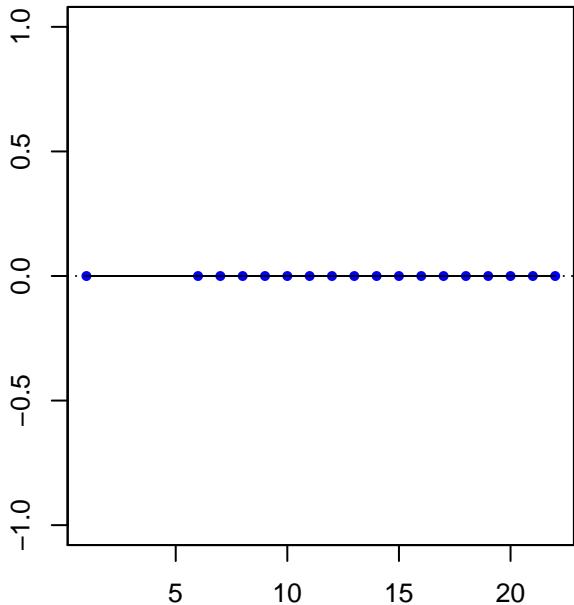
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

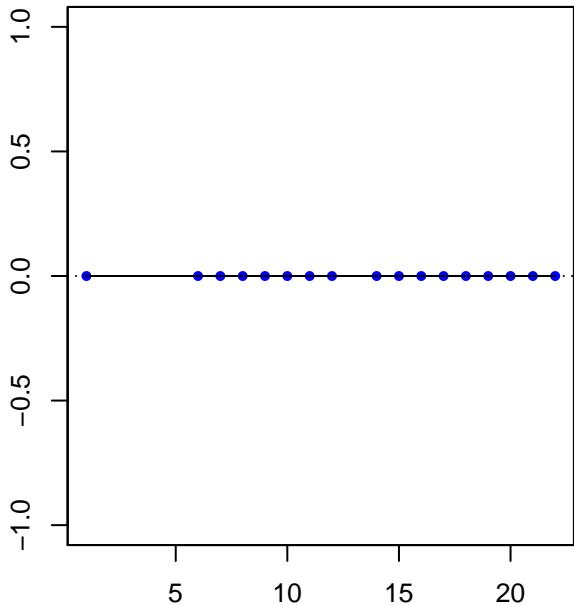
SJF



SJI

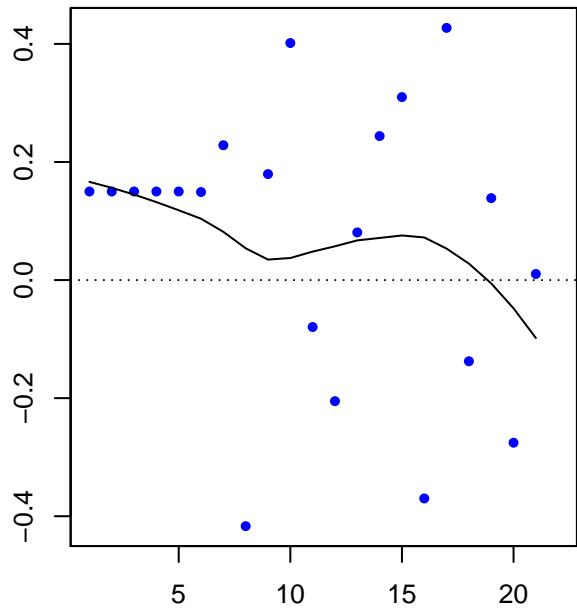


EBays

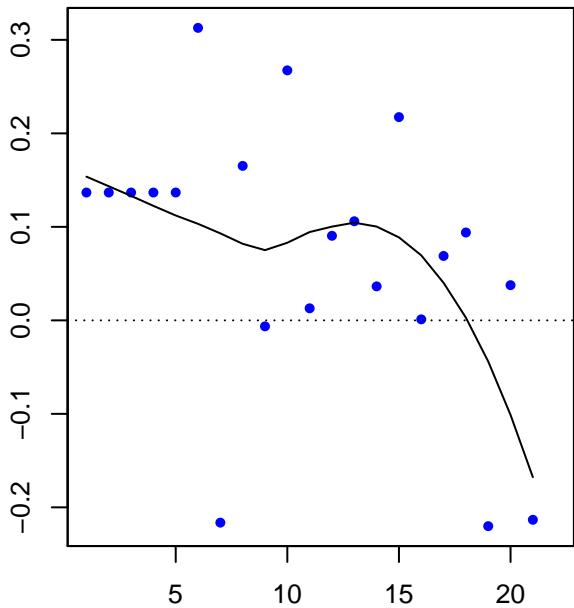


State residuals, $x_{tT} - E[x]$

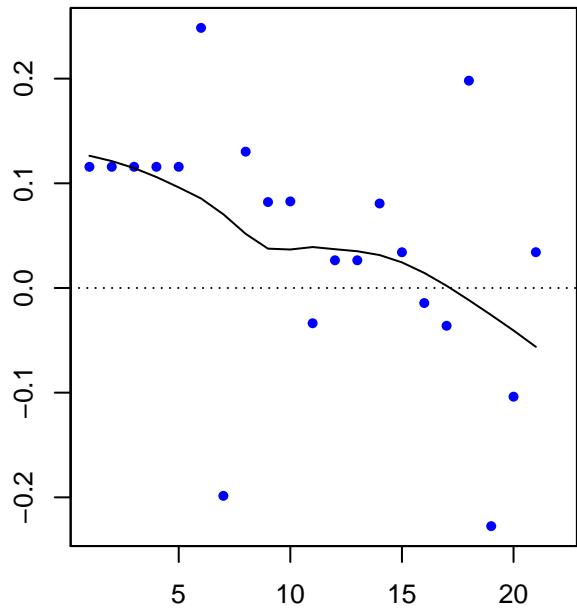
State X.SJF

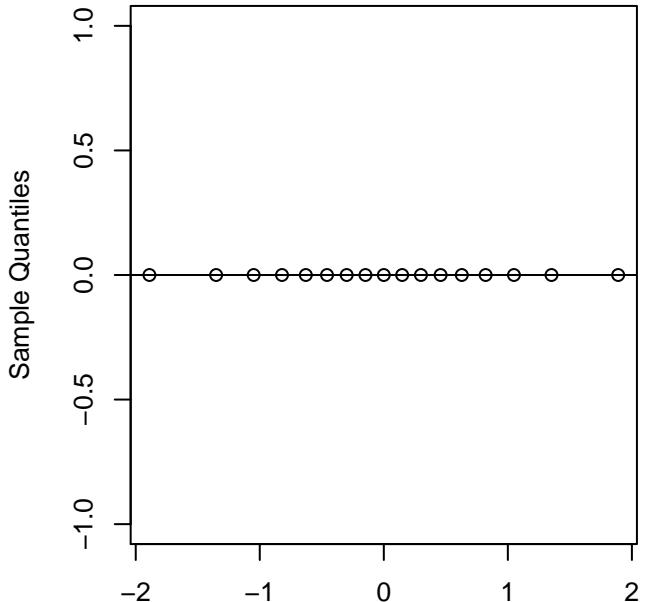
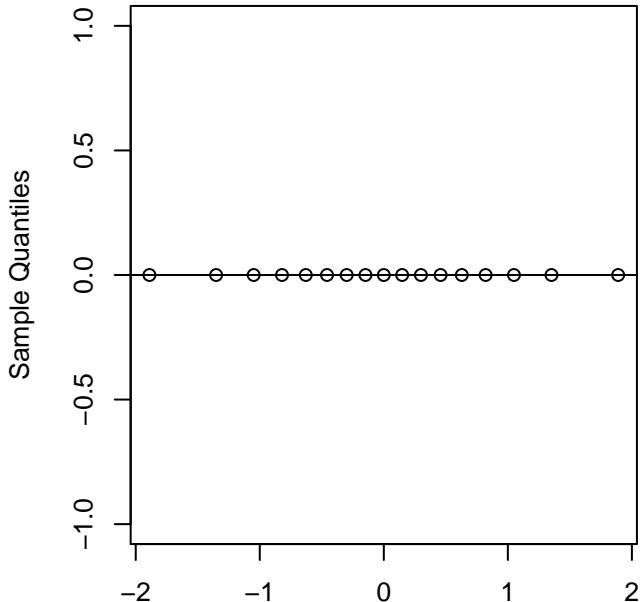
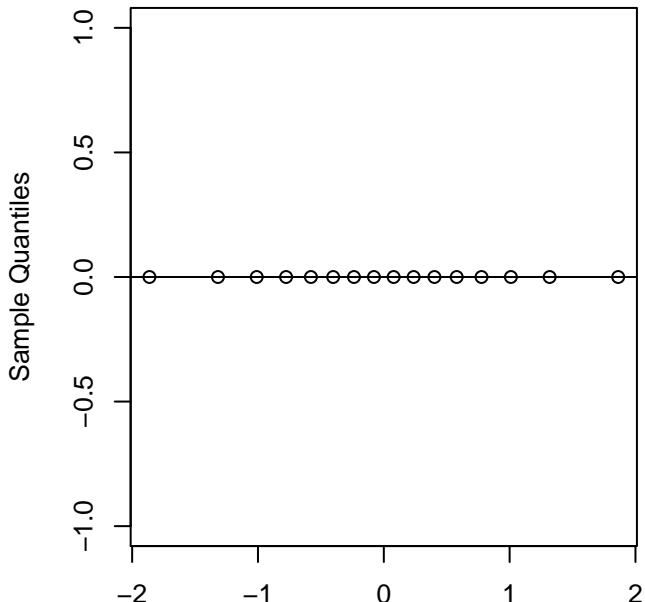


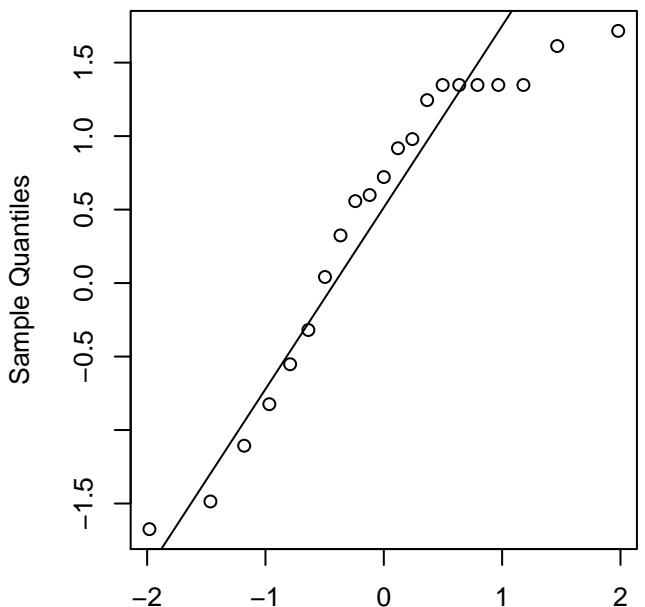
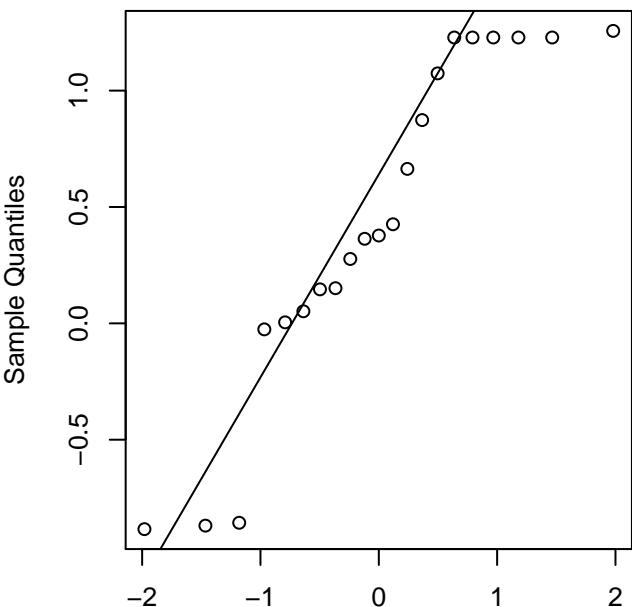
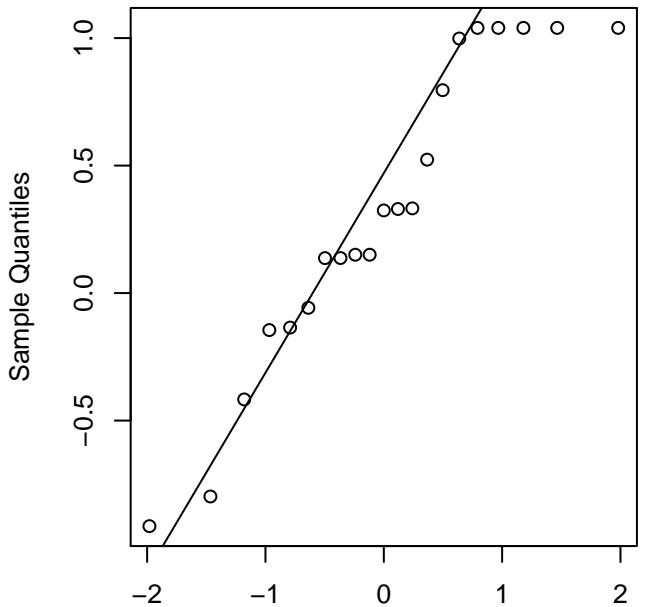
State X.SJI

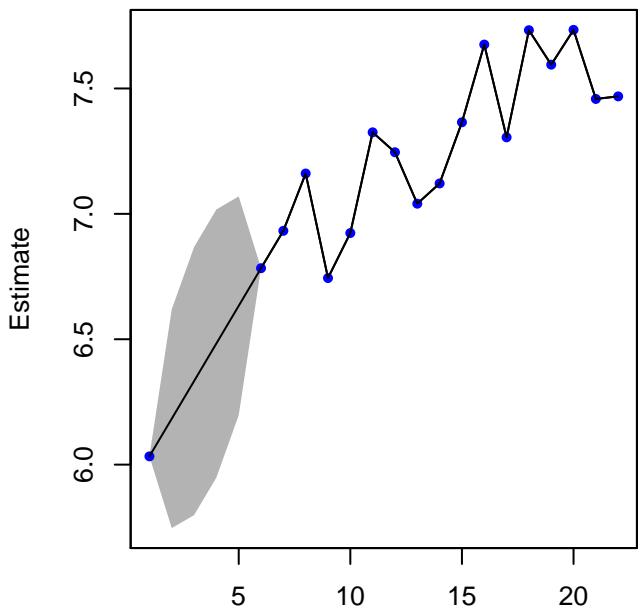
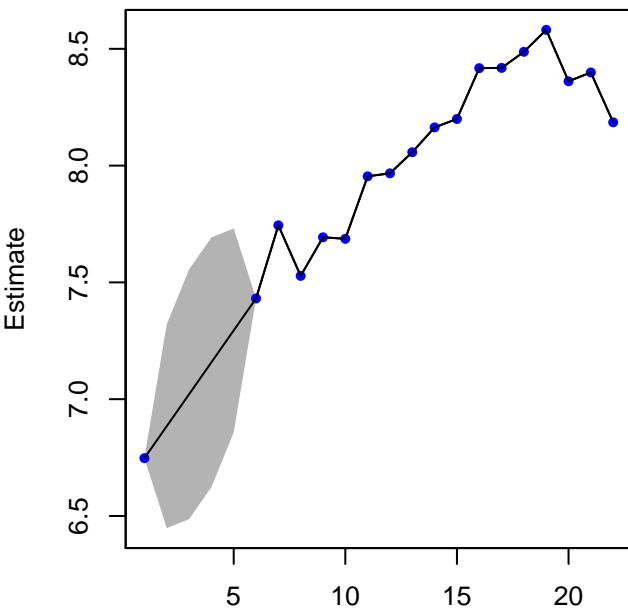
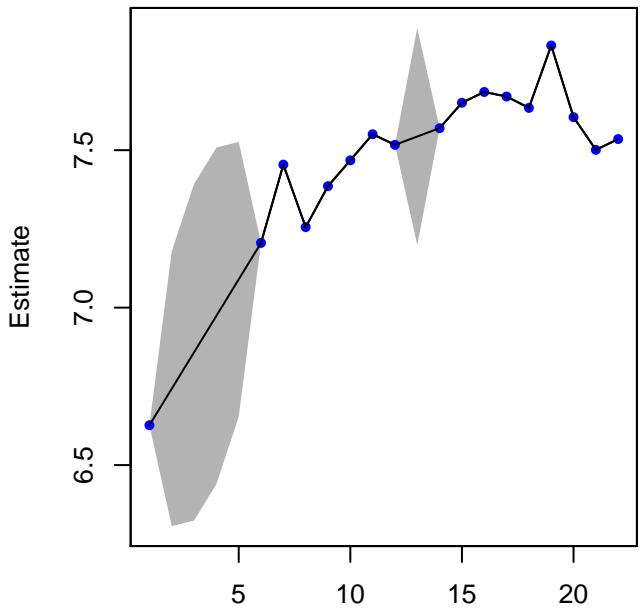


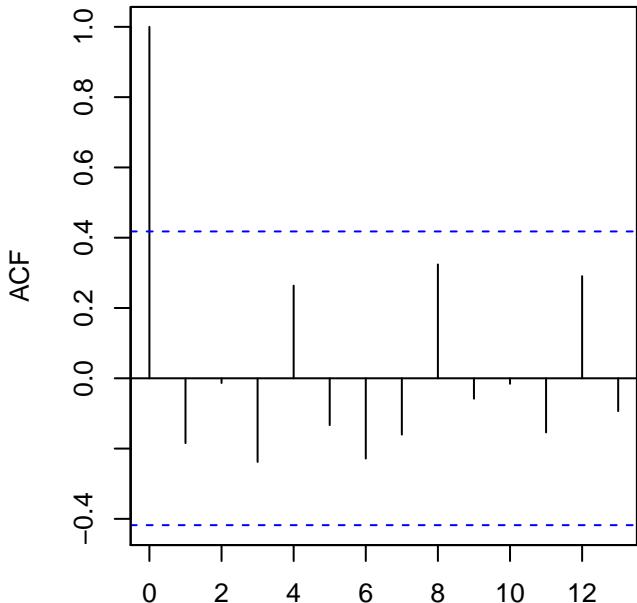
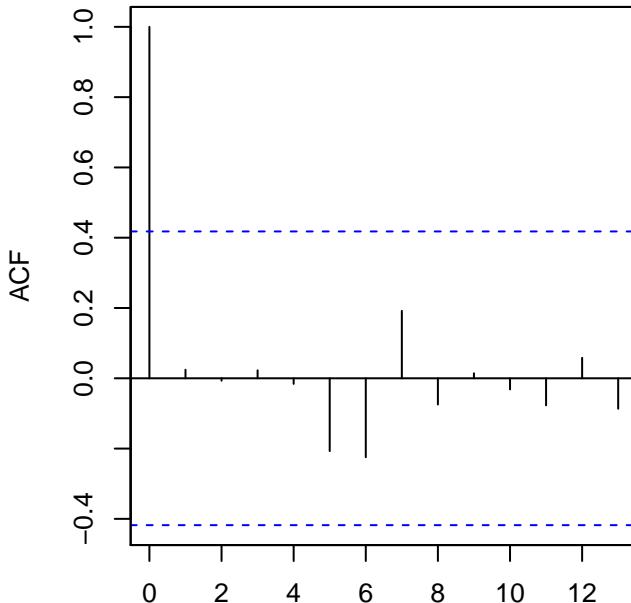
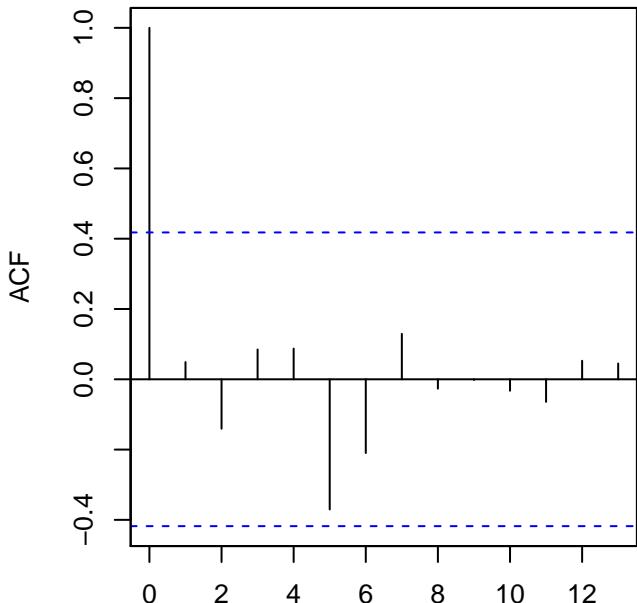
State X.EBays



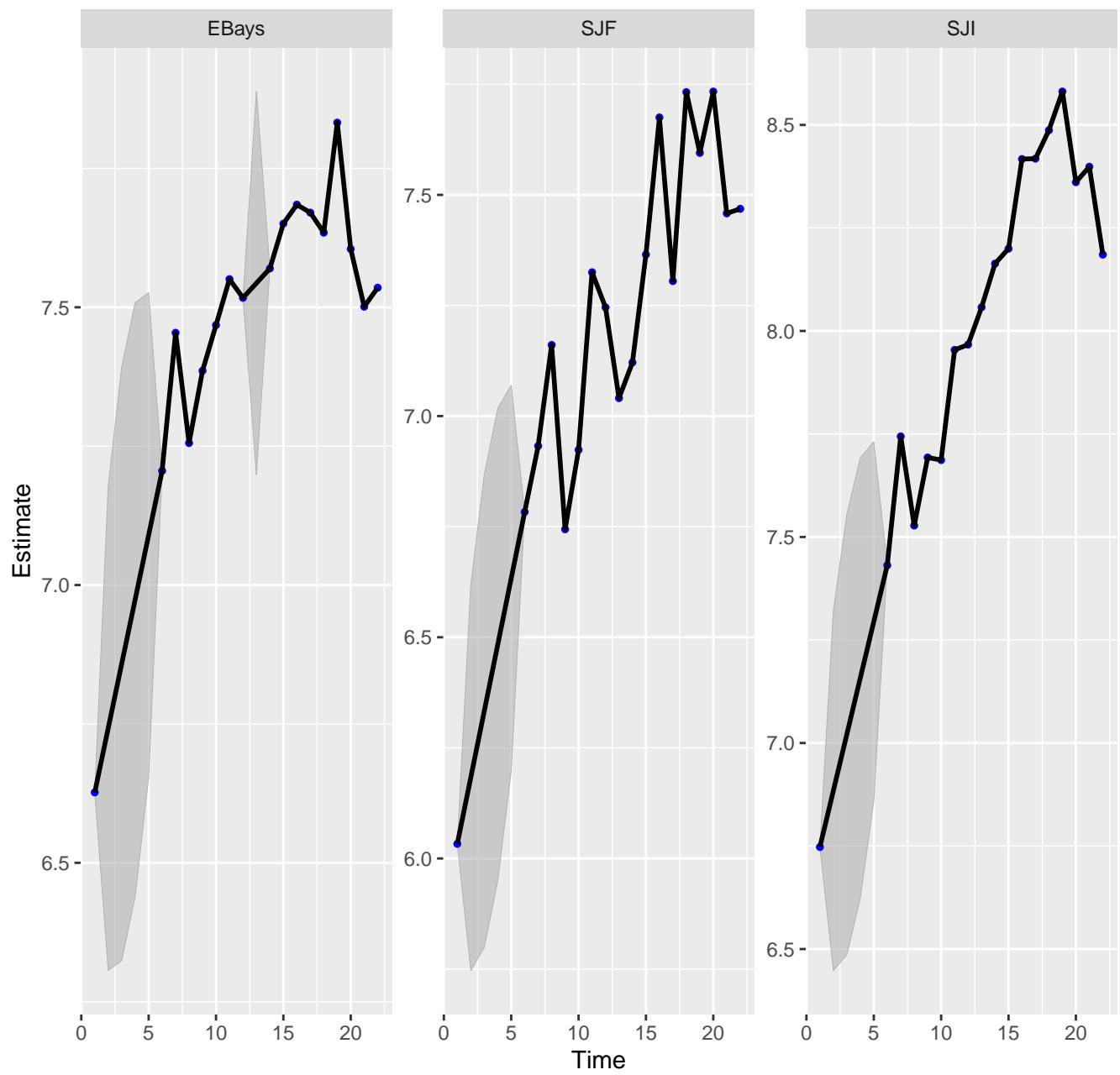
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

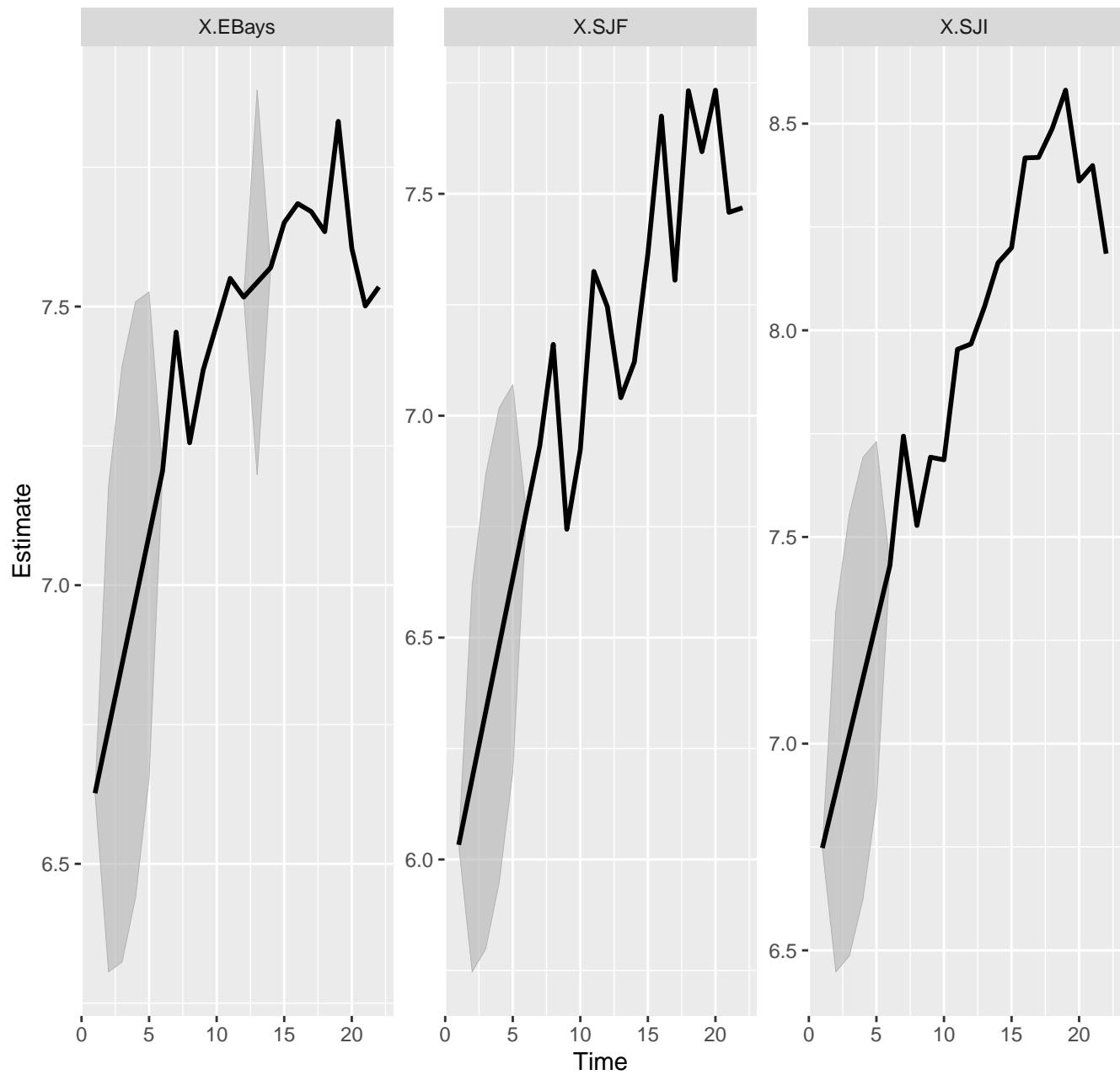
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

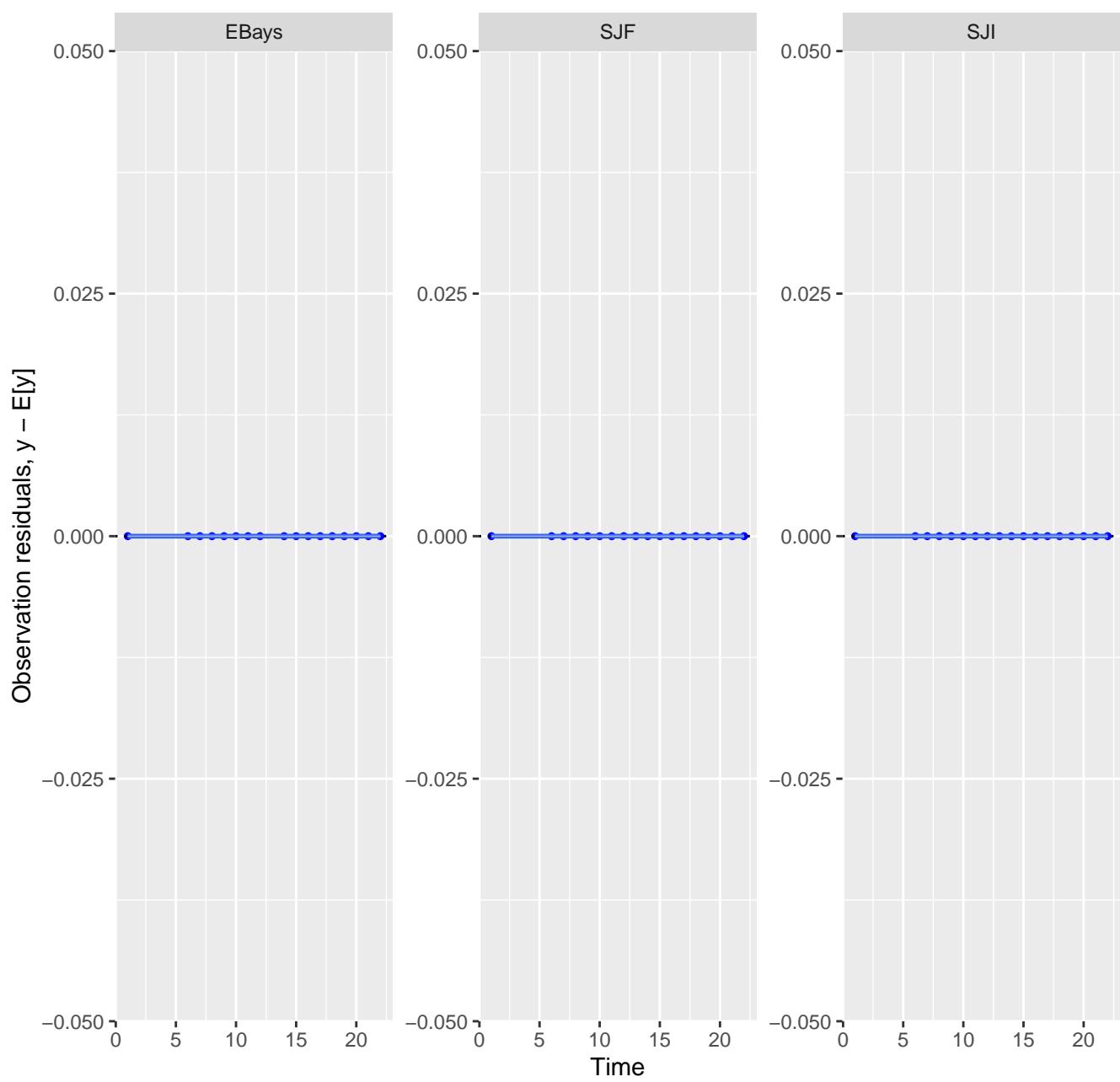
Model fitted Y + CI



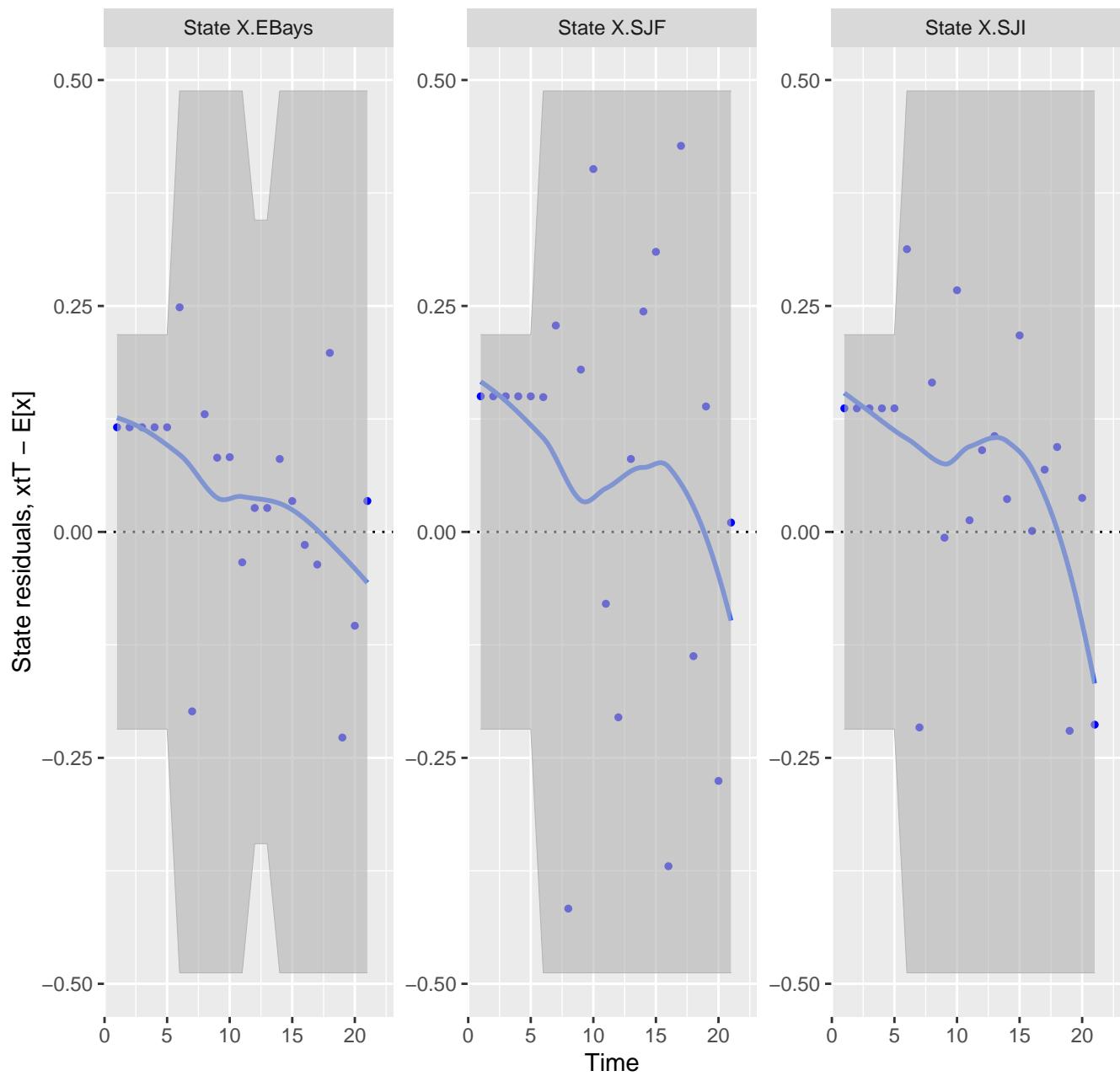
States



Model residuals

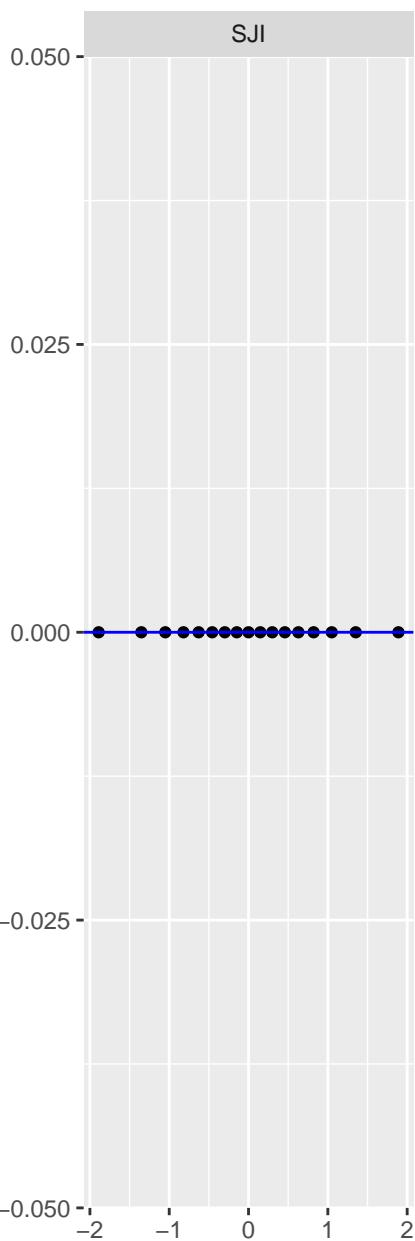
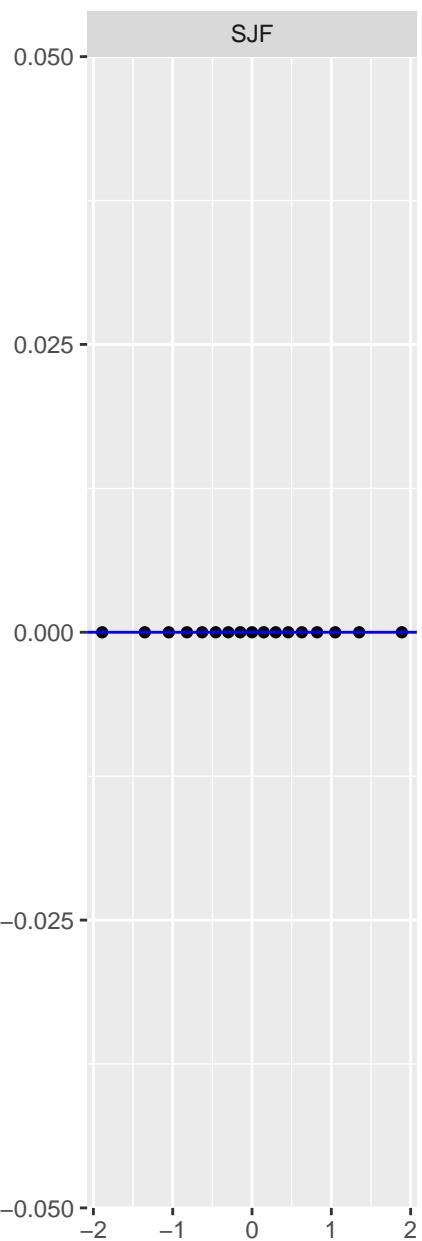
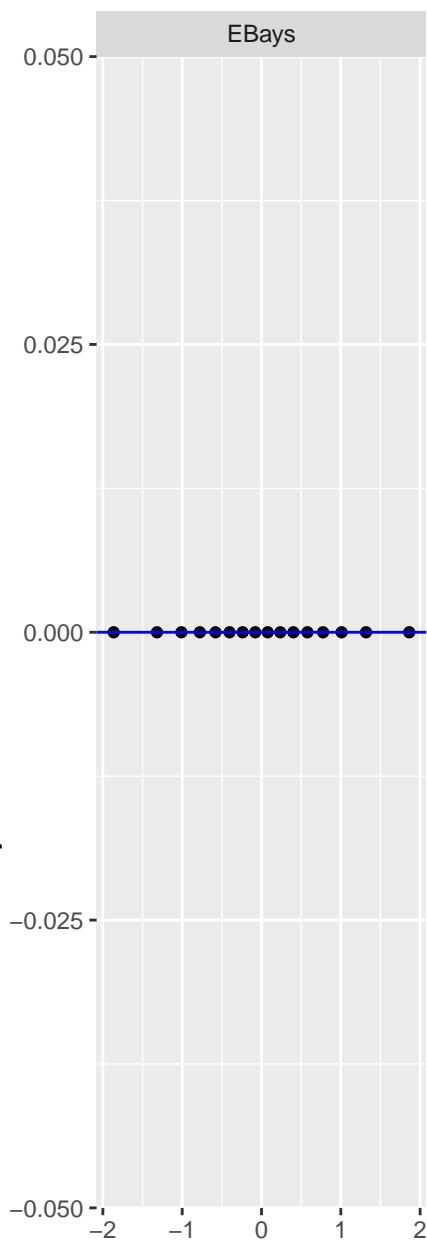


State residuals



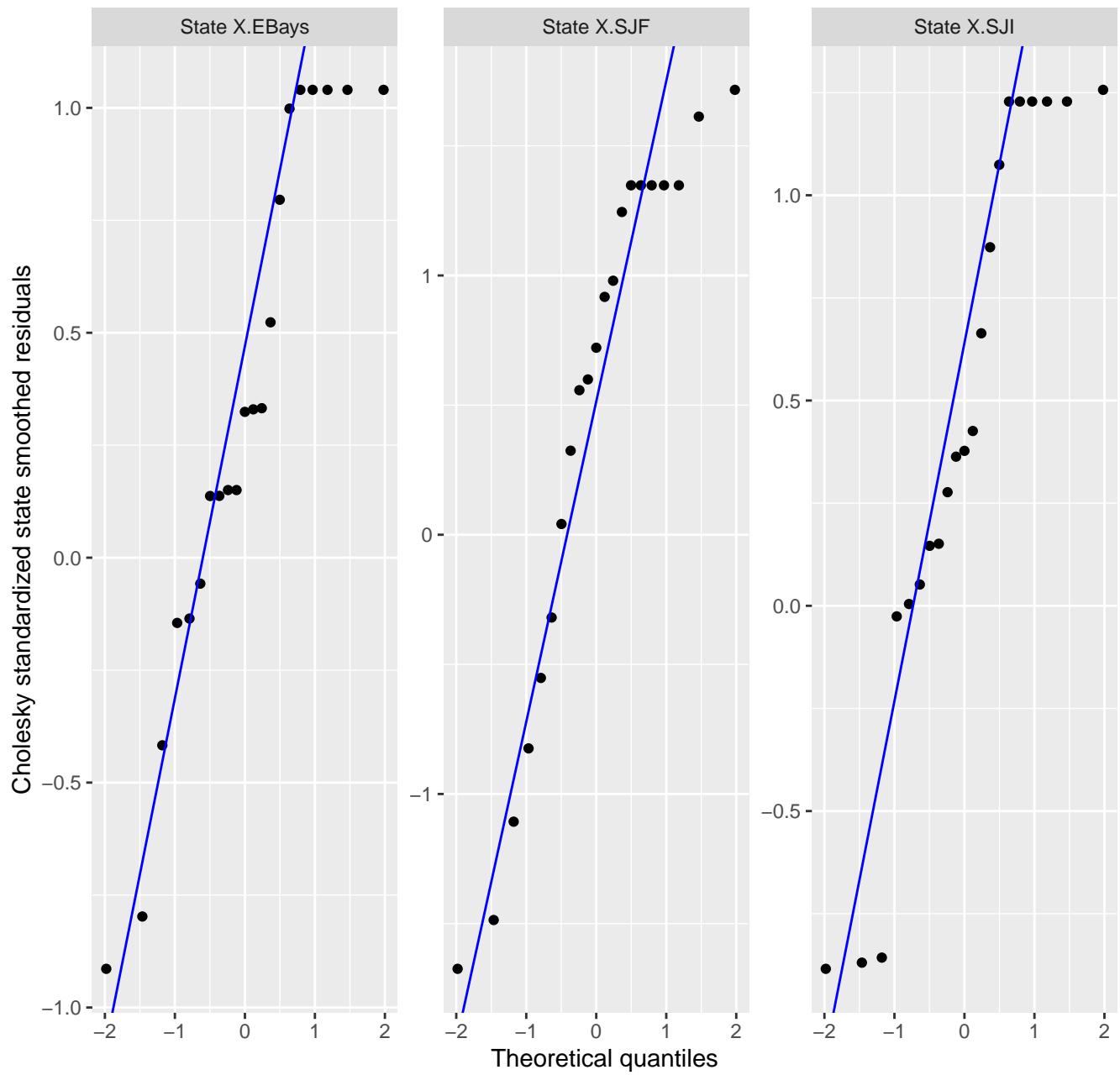
Model residuals normality test

Cholesky standardized model smoothed residuals

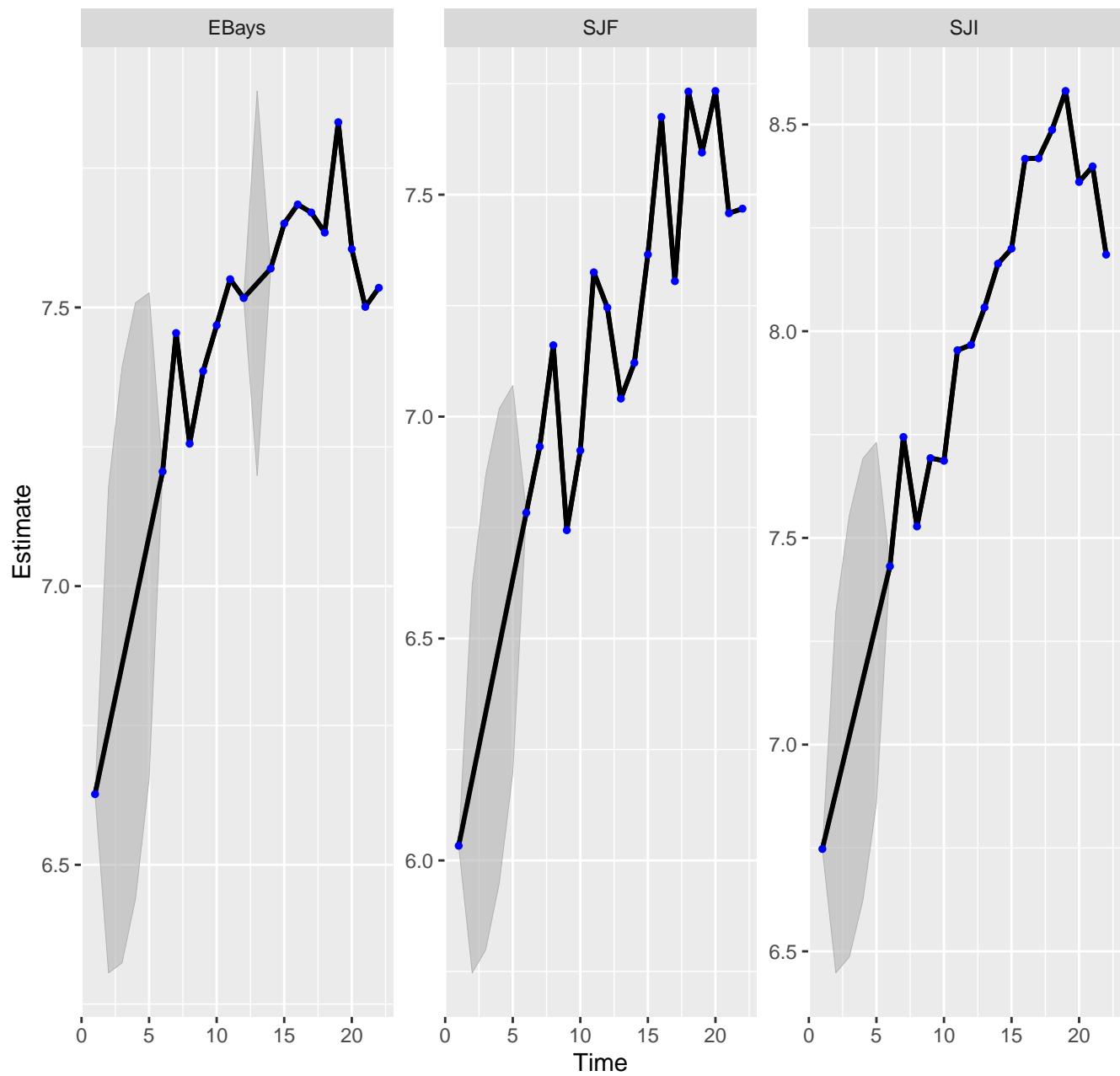


Theoretical quantiles

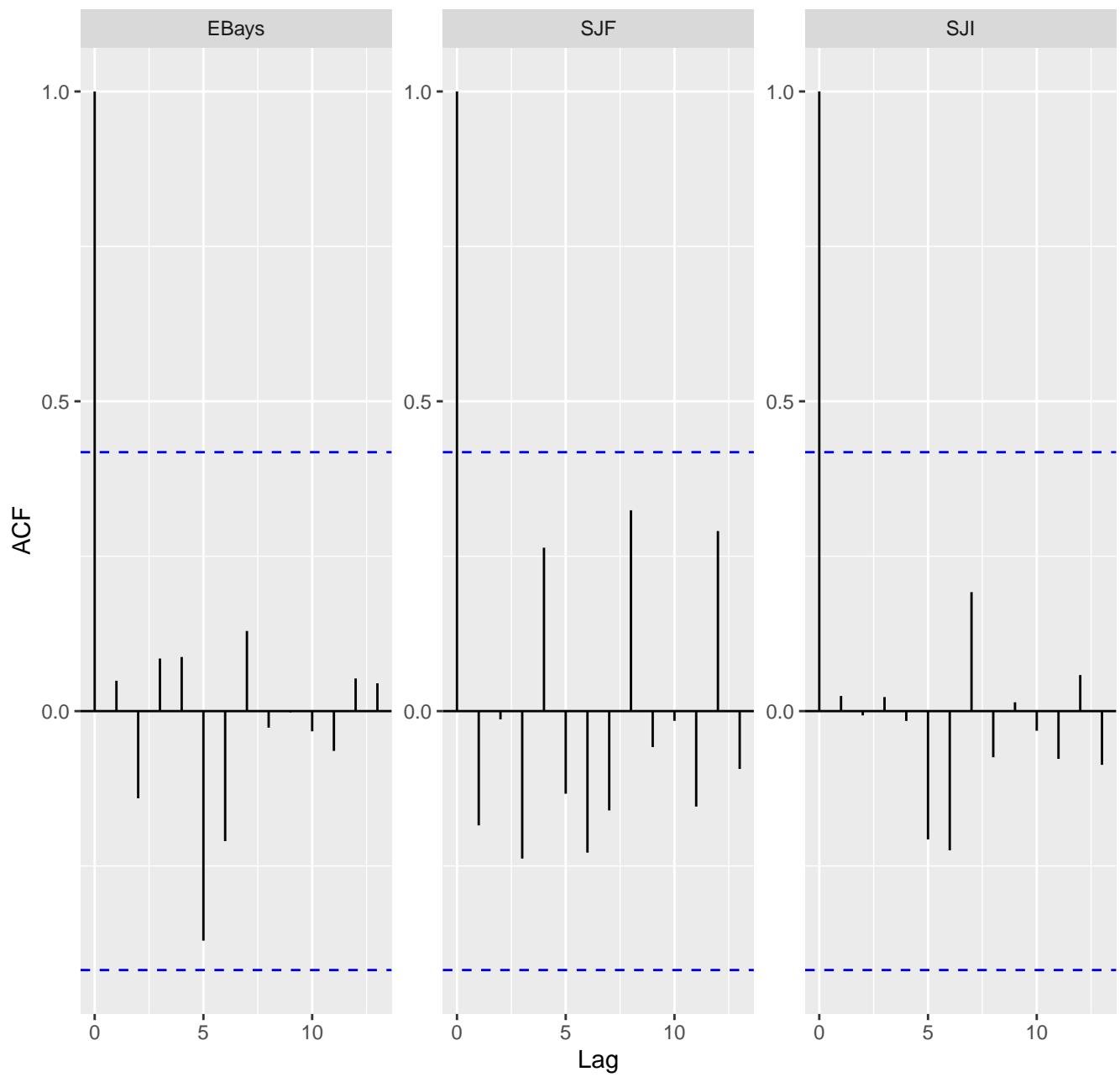
State residuals normality test

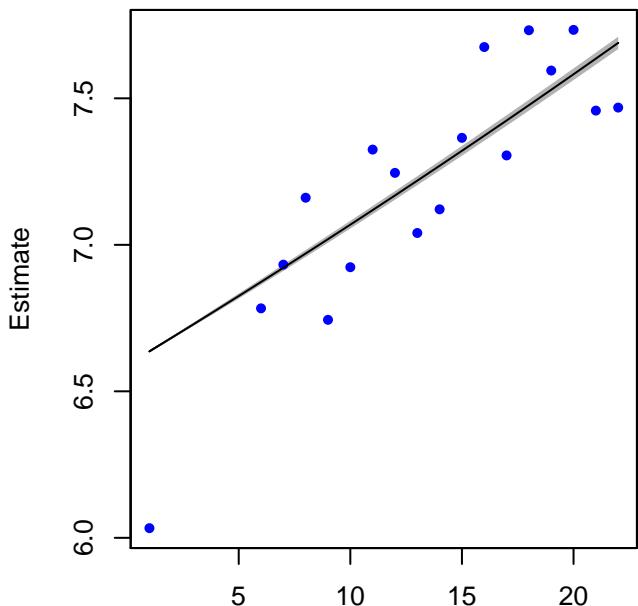
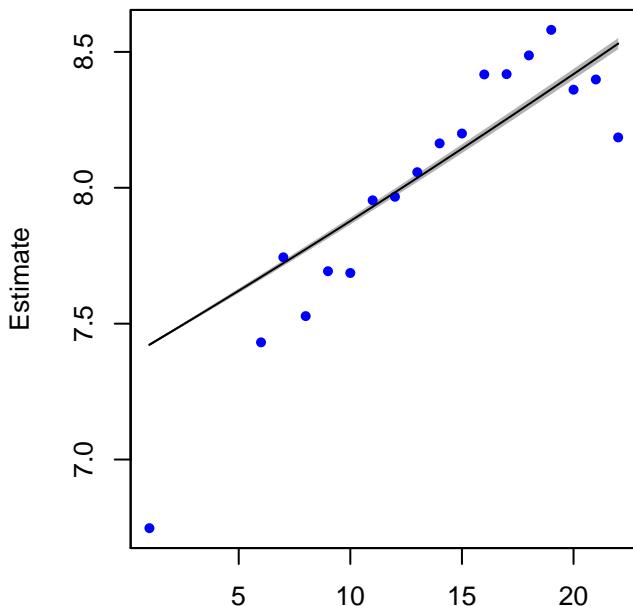
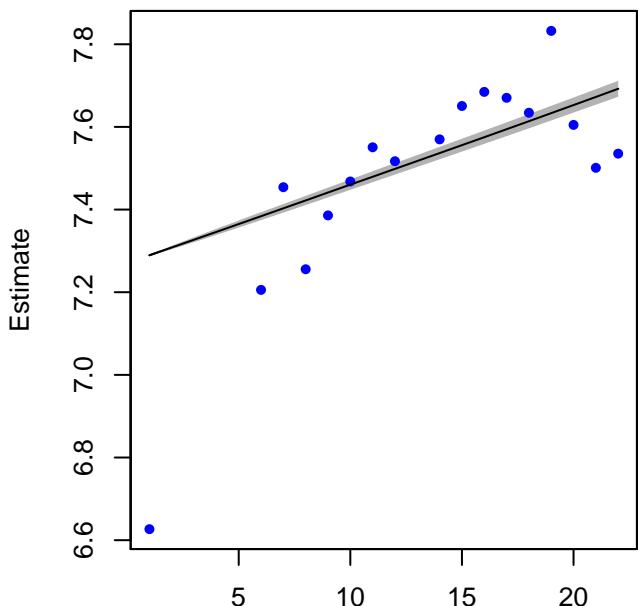


Expected value of Y conditioned on data

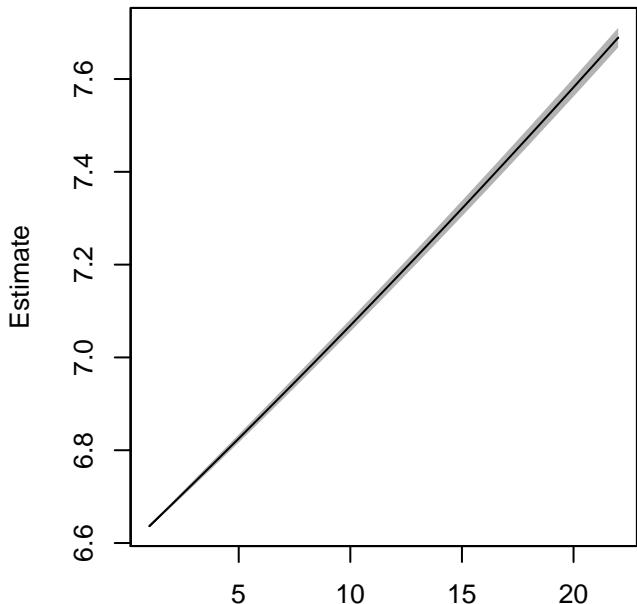


Model innovations residuals ACF

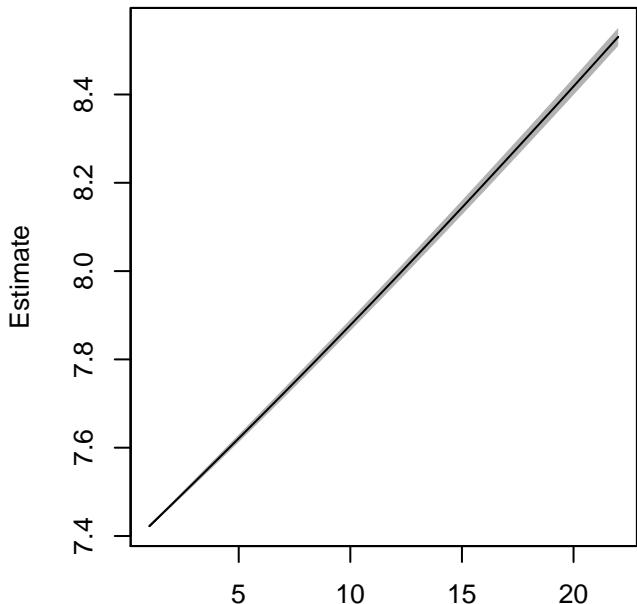


SJF + CI**SJI + CI****EBays + CI**

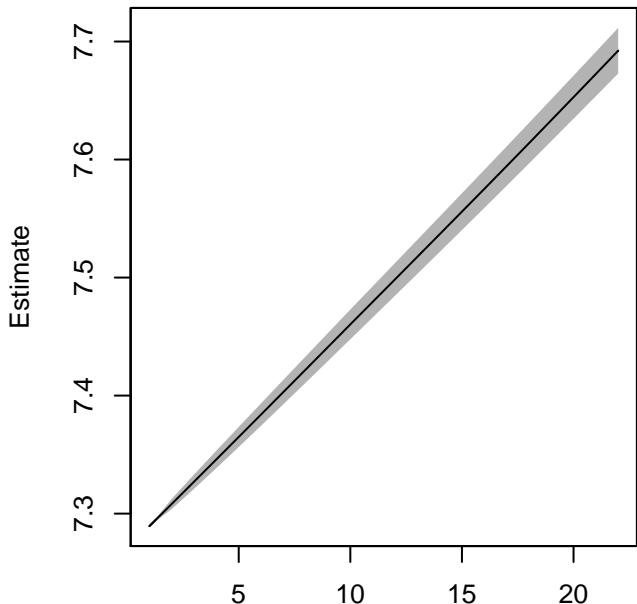
State X.SJF

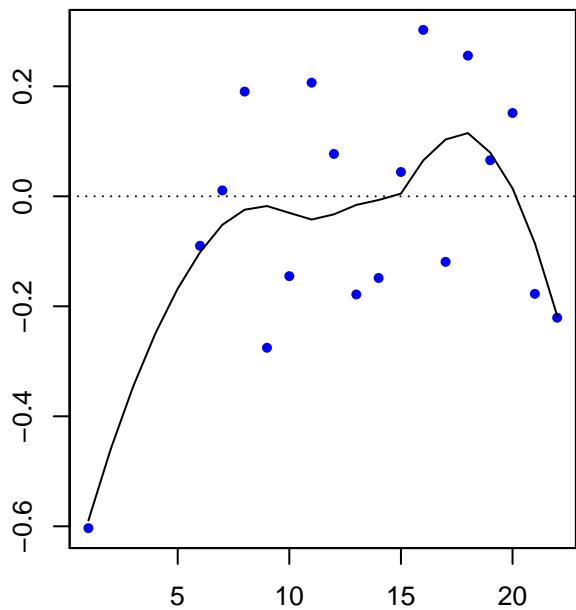
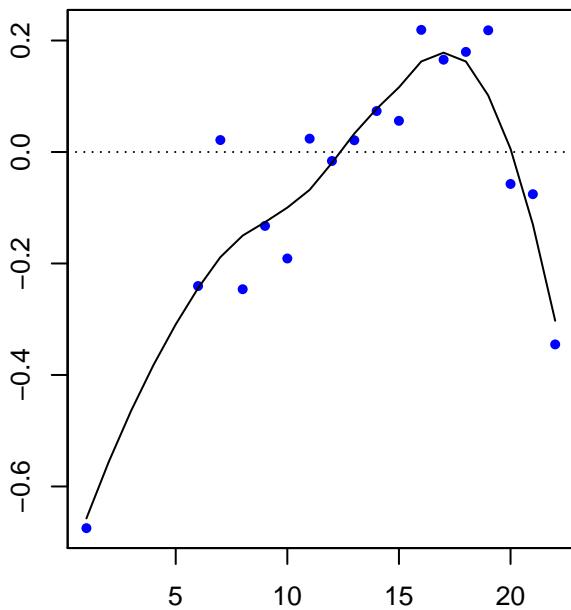
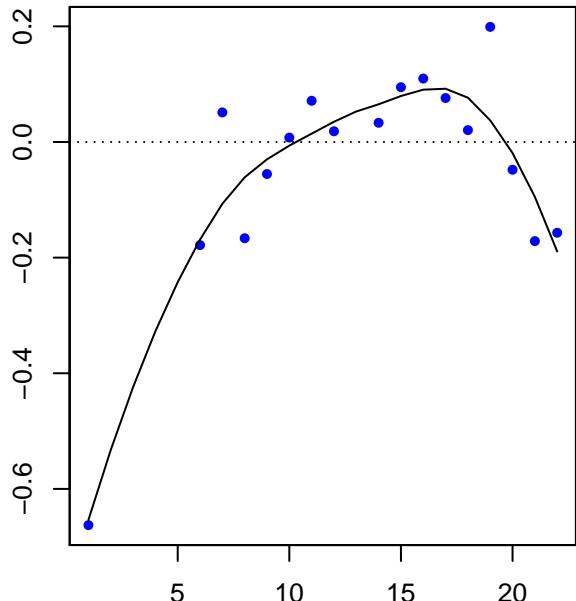


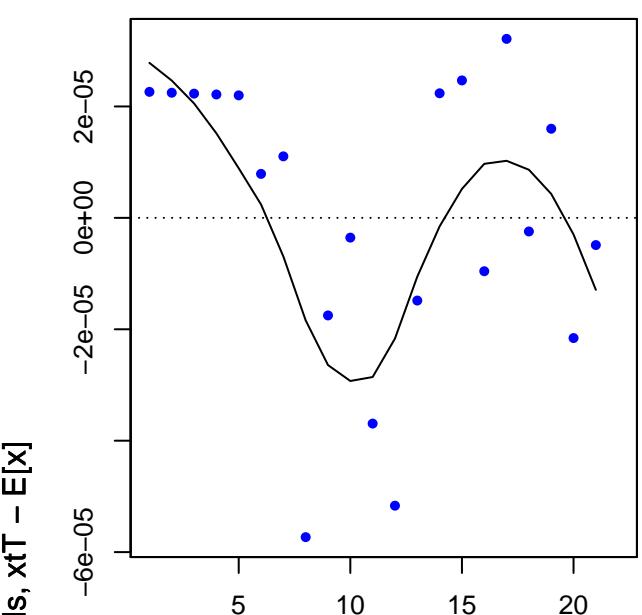
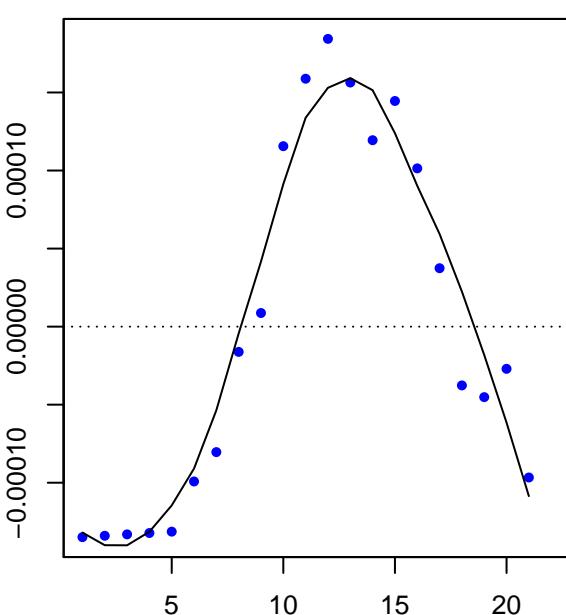
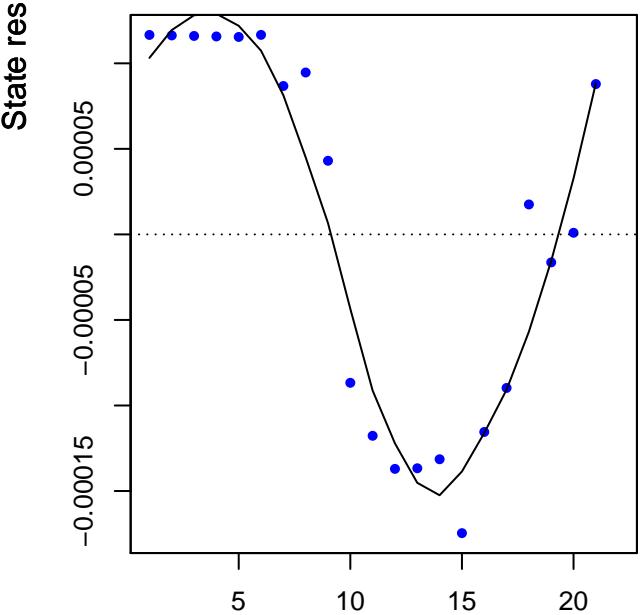
State X.SJI

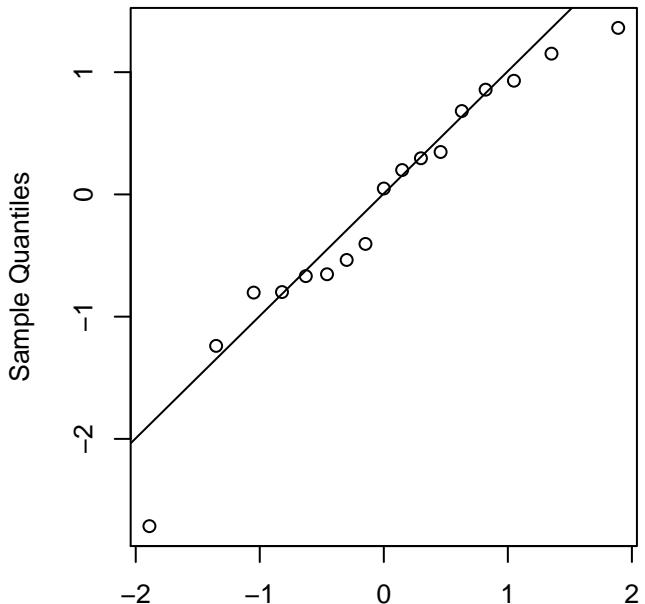
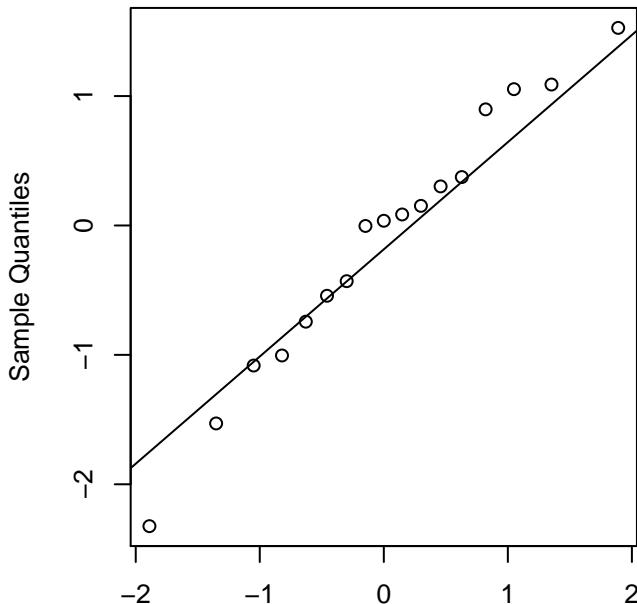
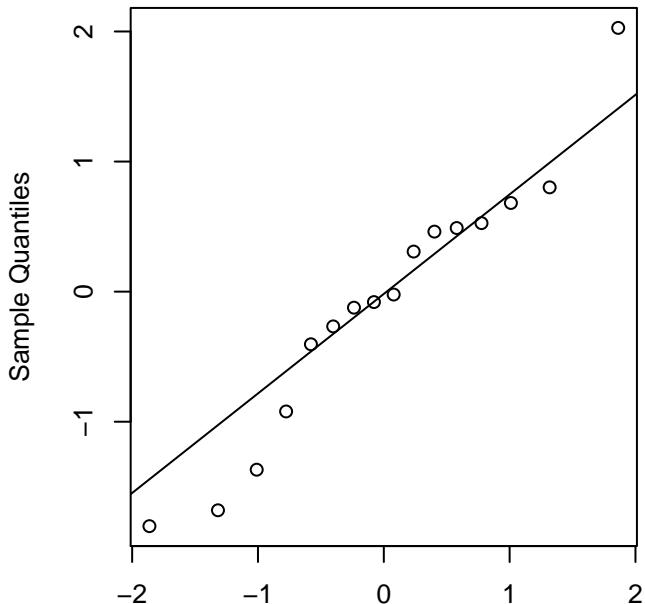


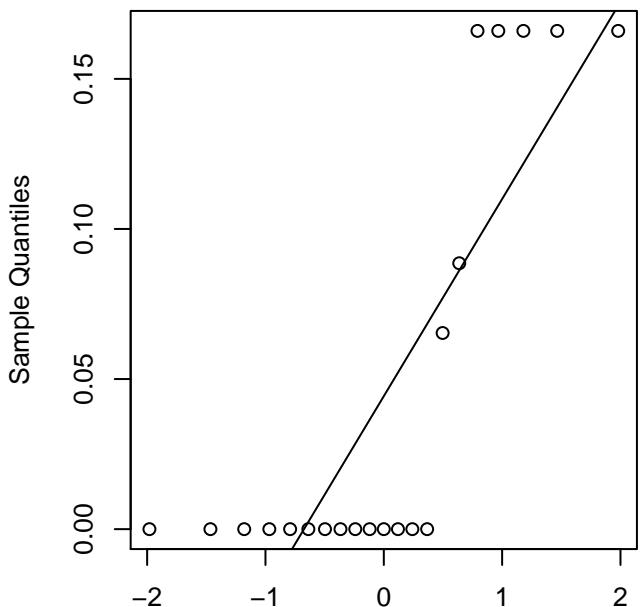
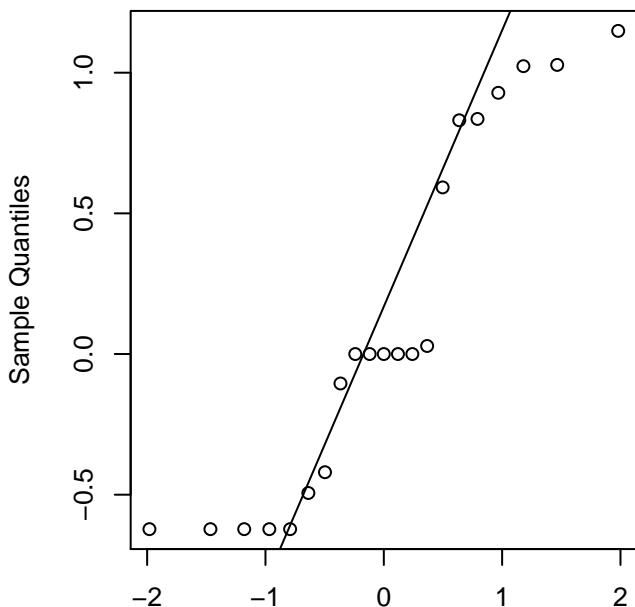
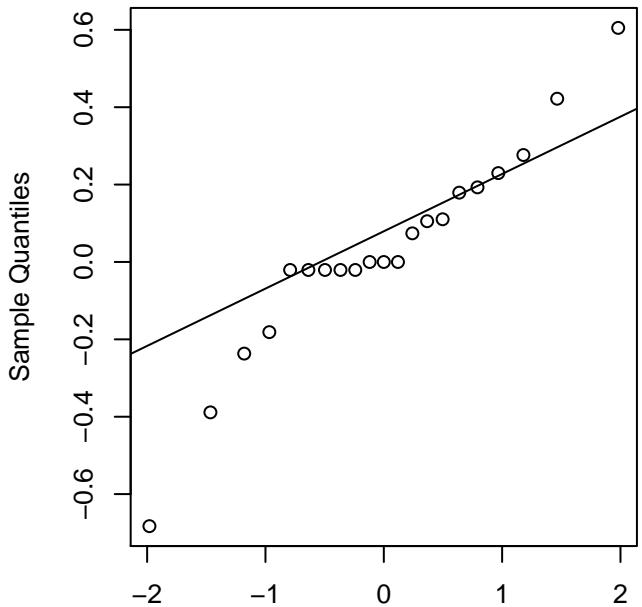
State X.EBays

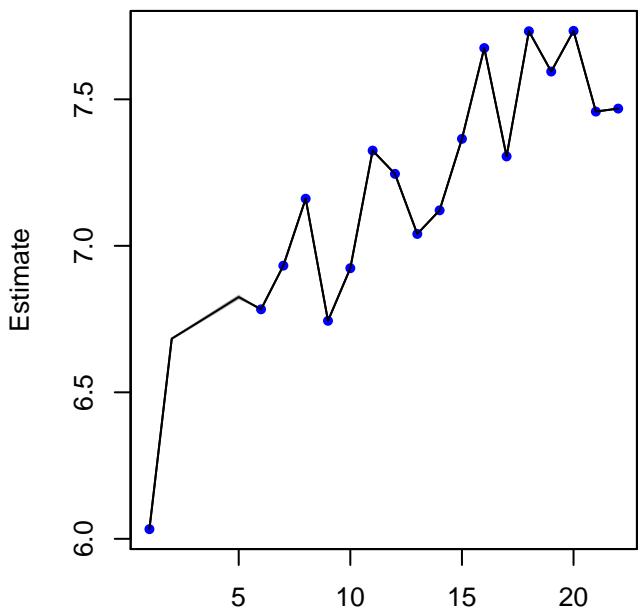
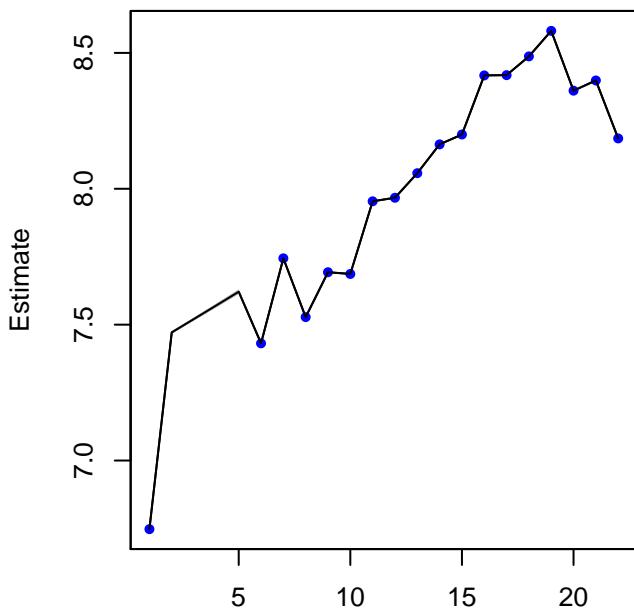
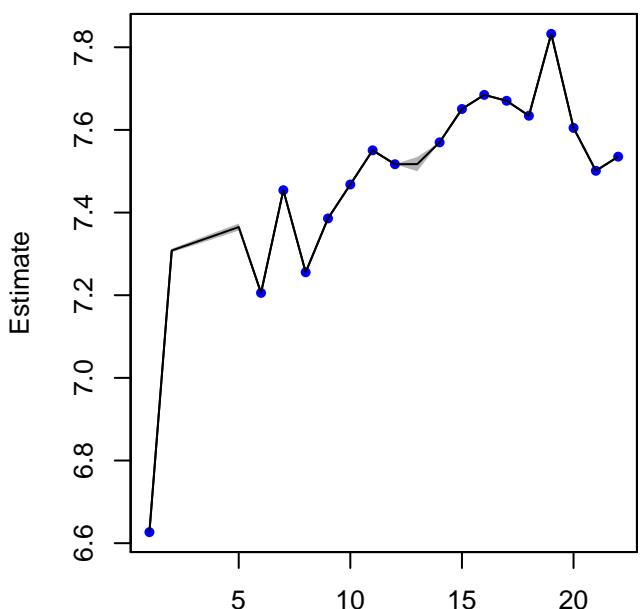


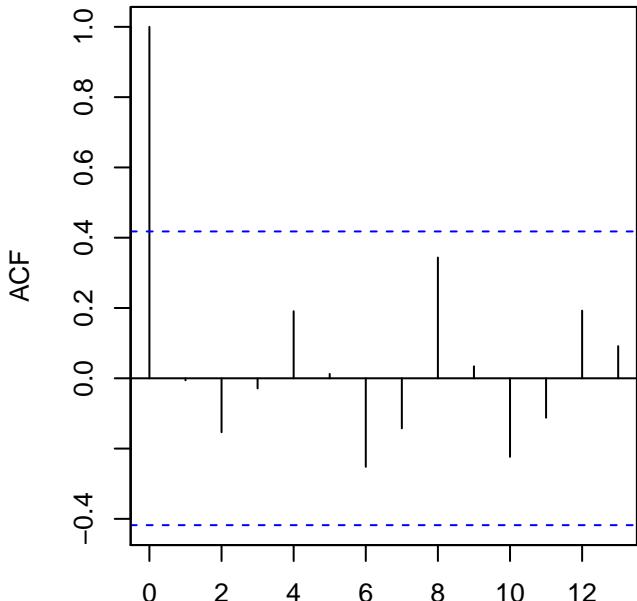
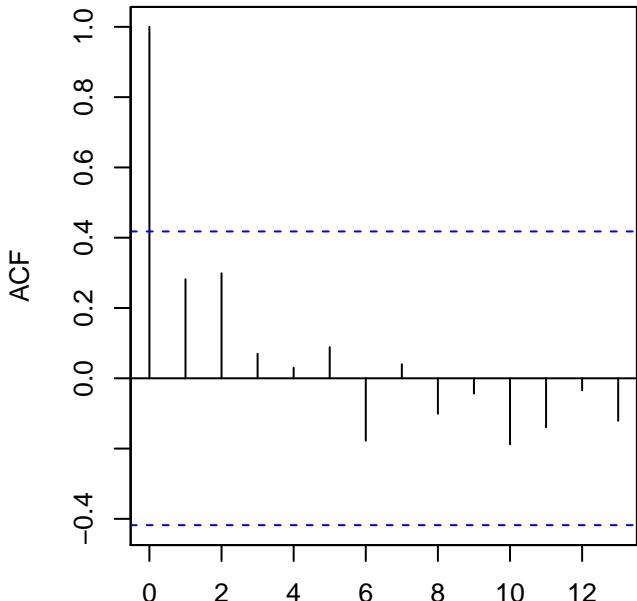
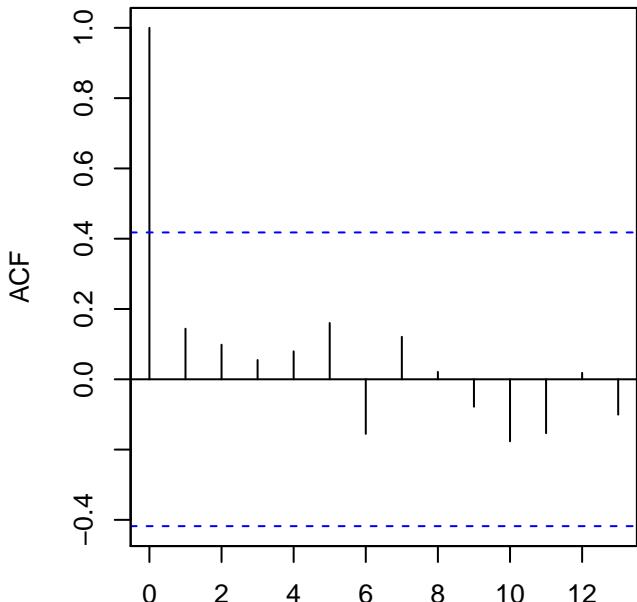
SJFObservation residuals, $y - E[y]$ **SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

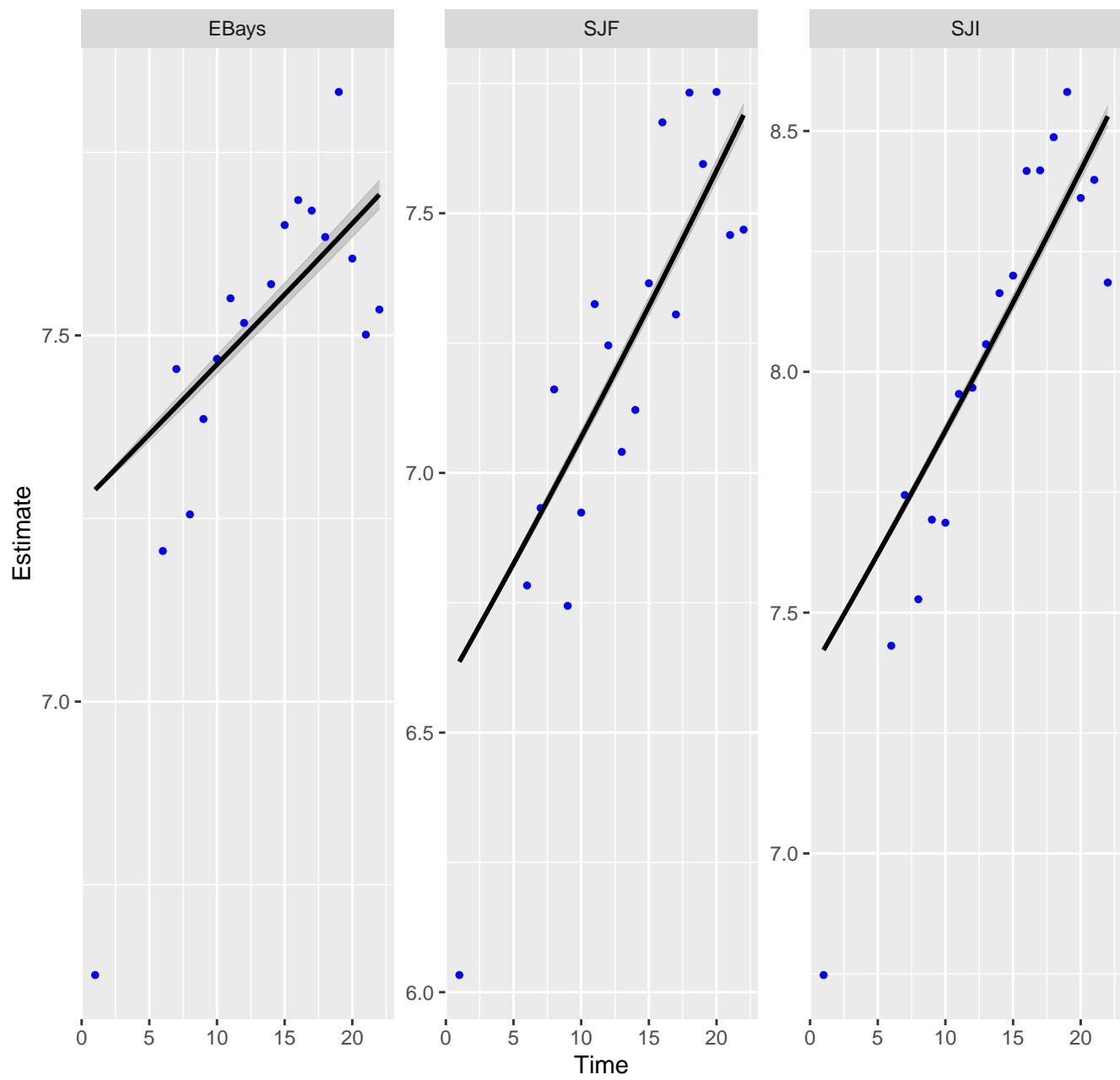
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

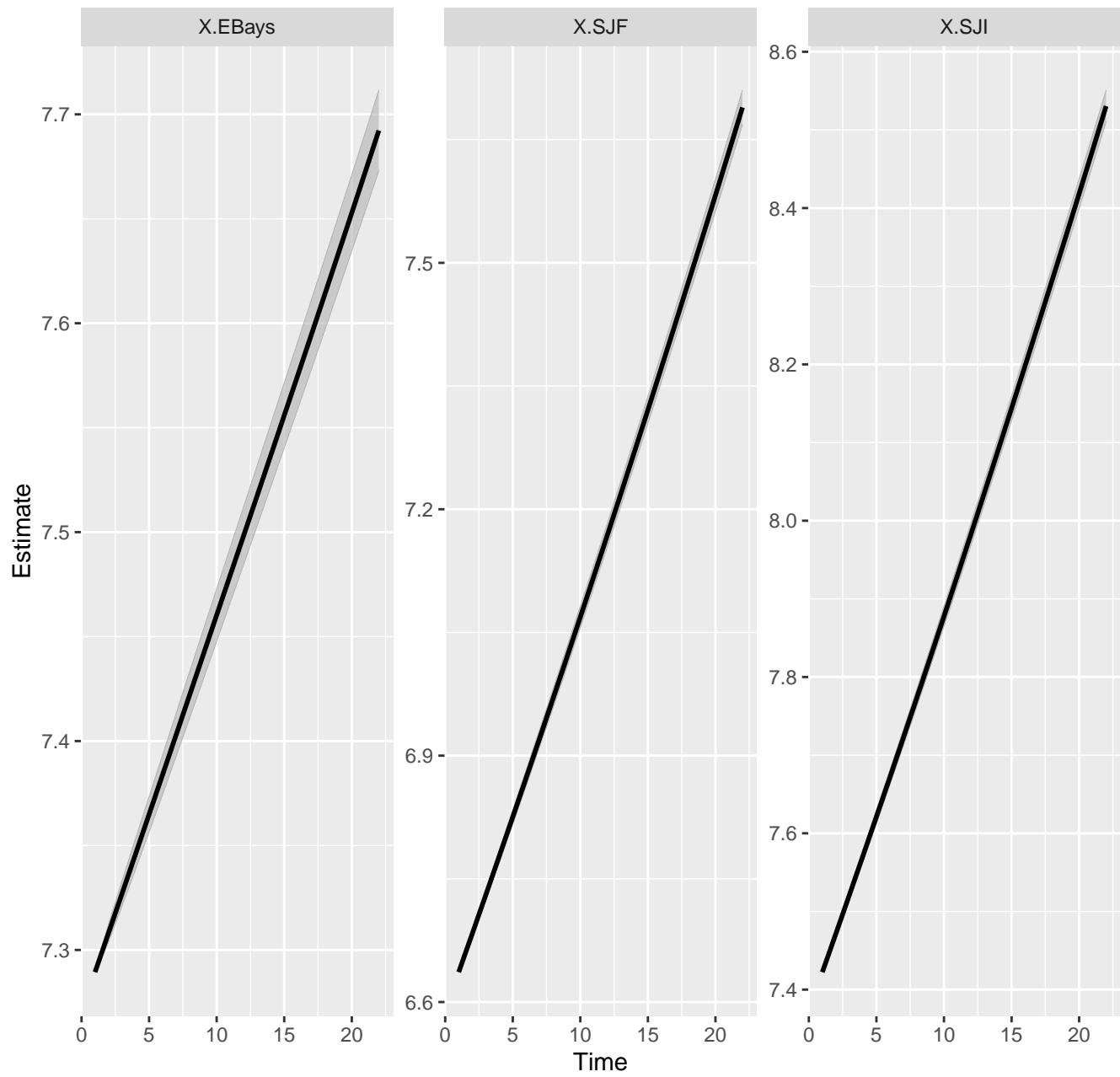
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

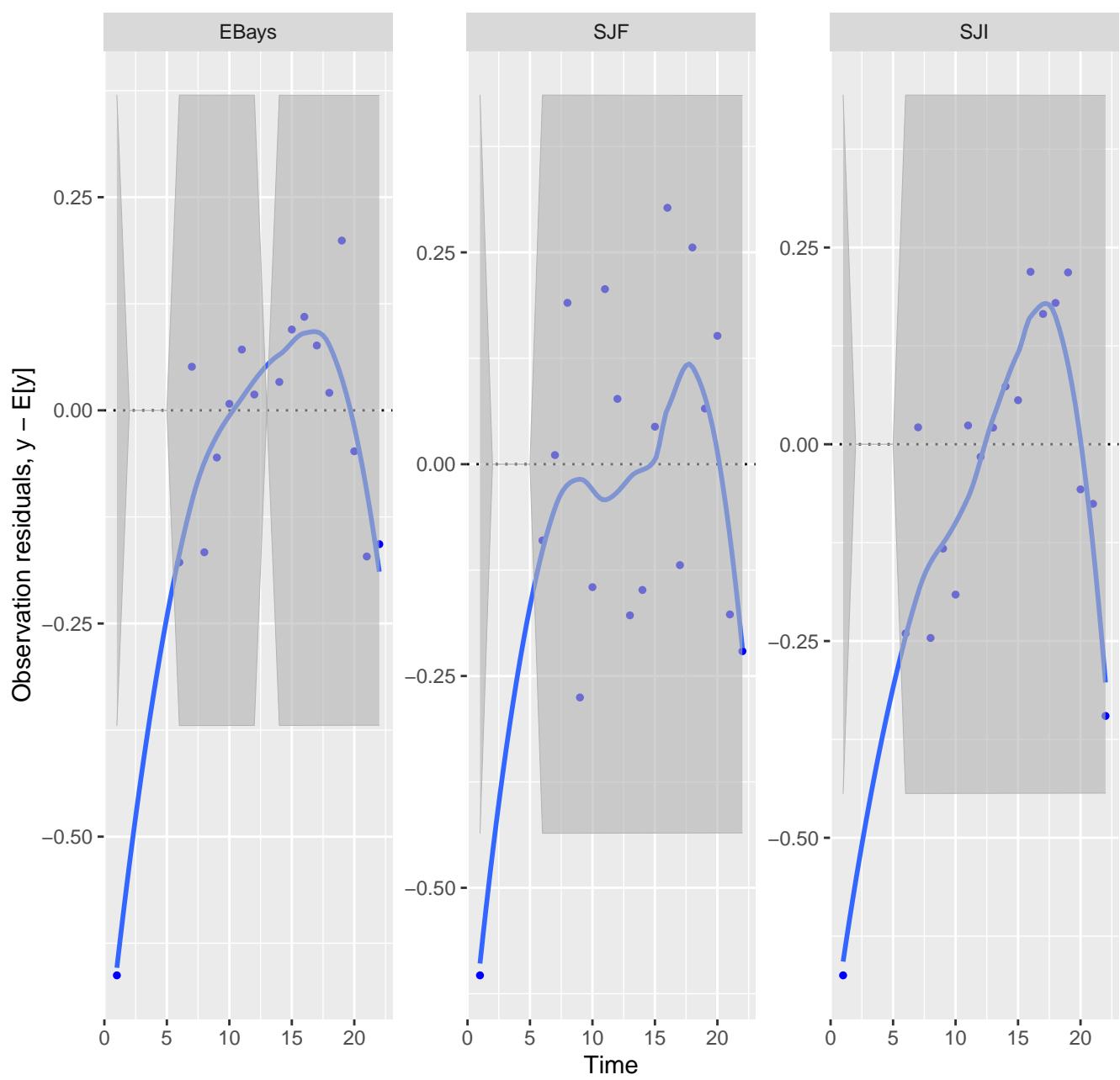
Model fitted Y + CI



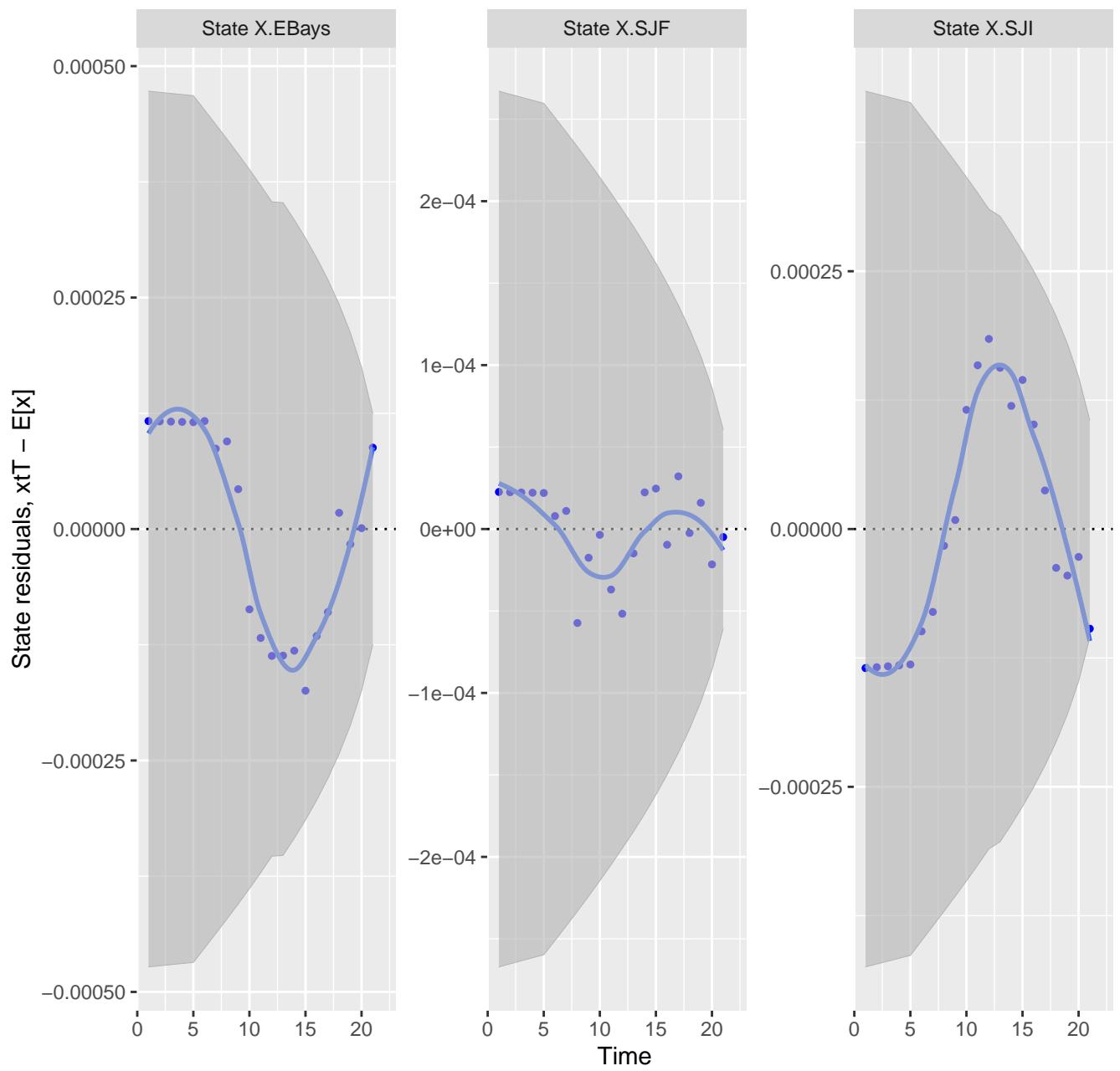
States



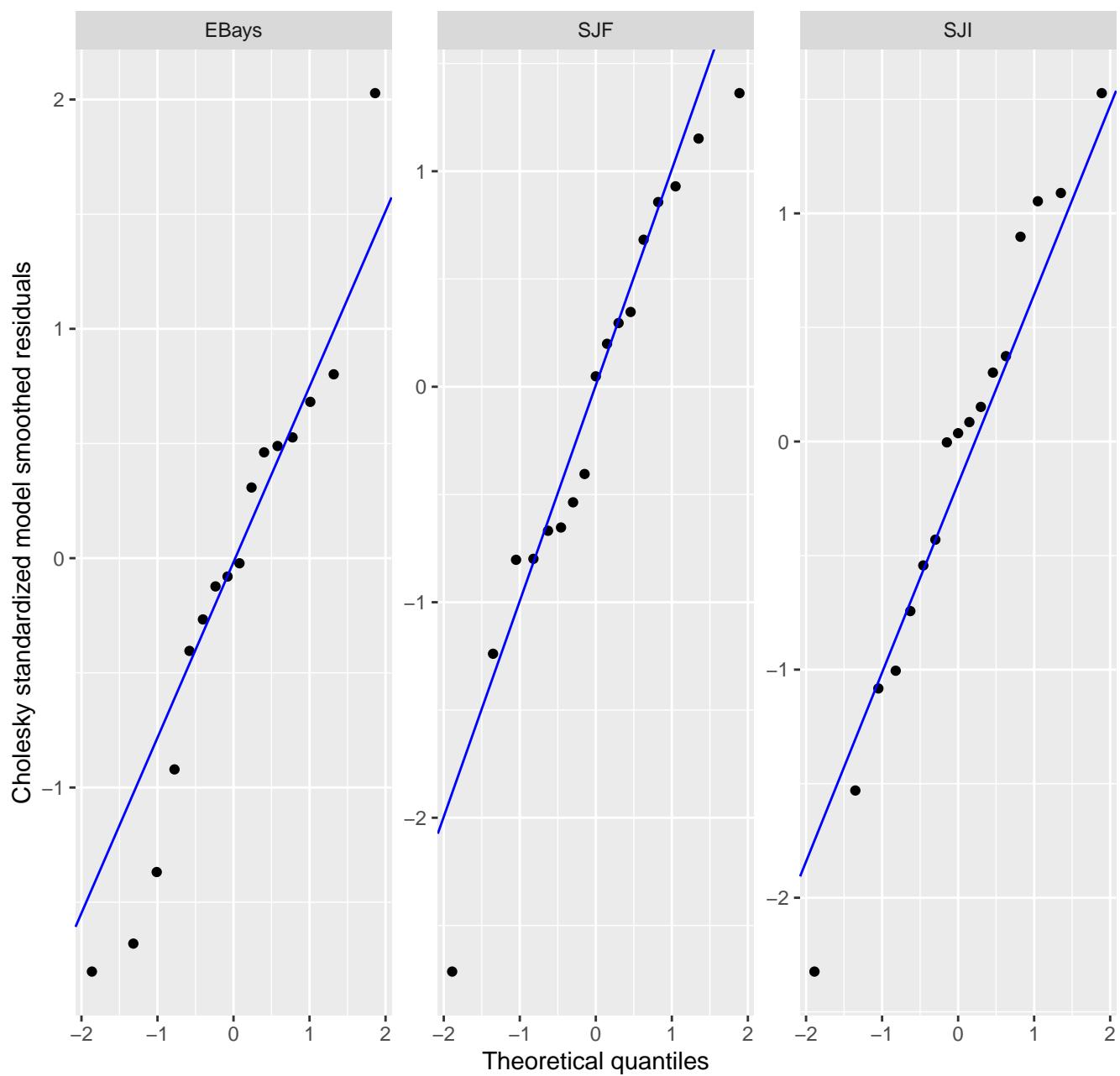
Model residuals



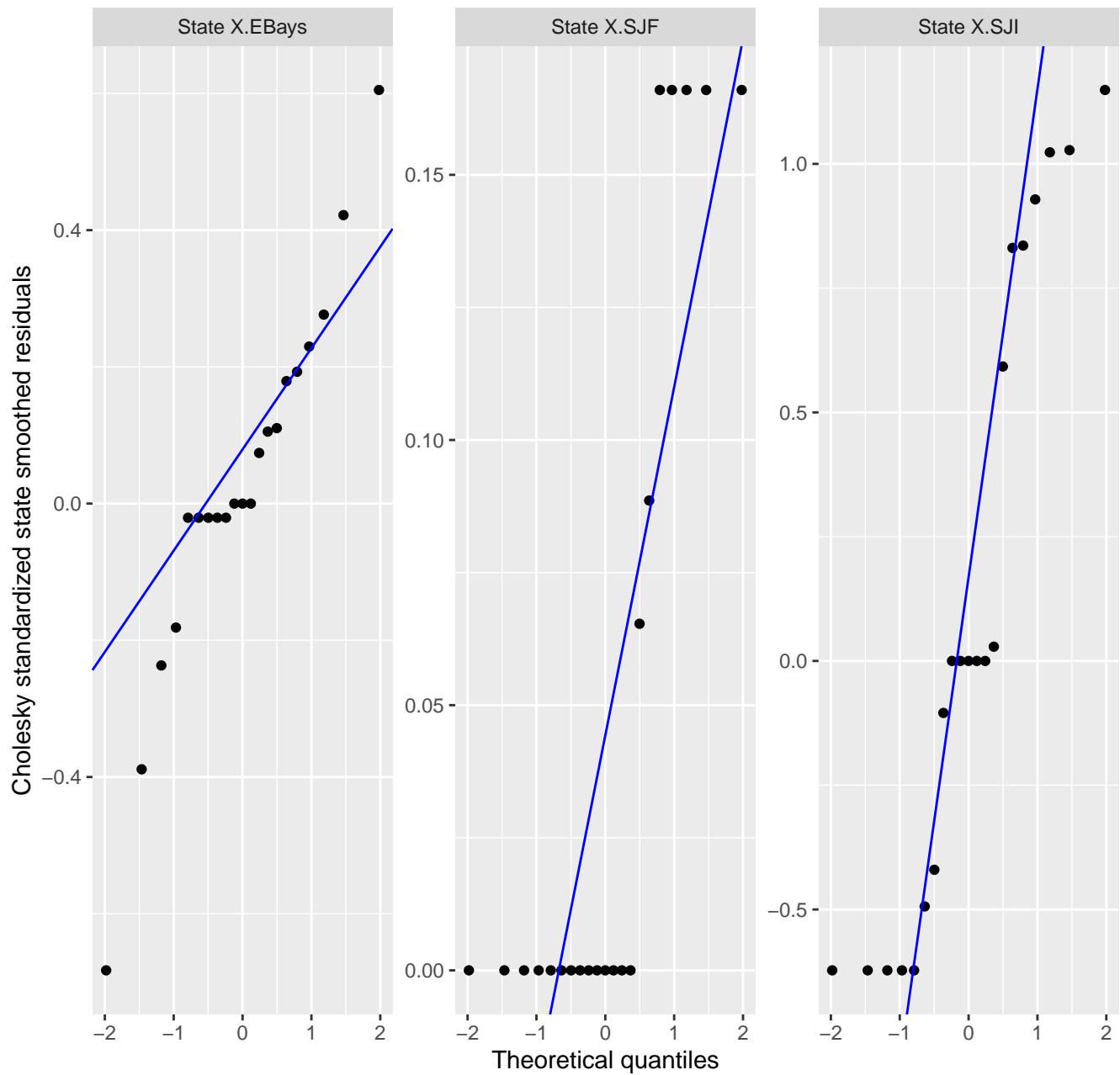
State residuals



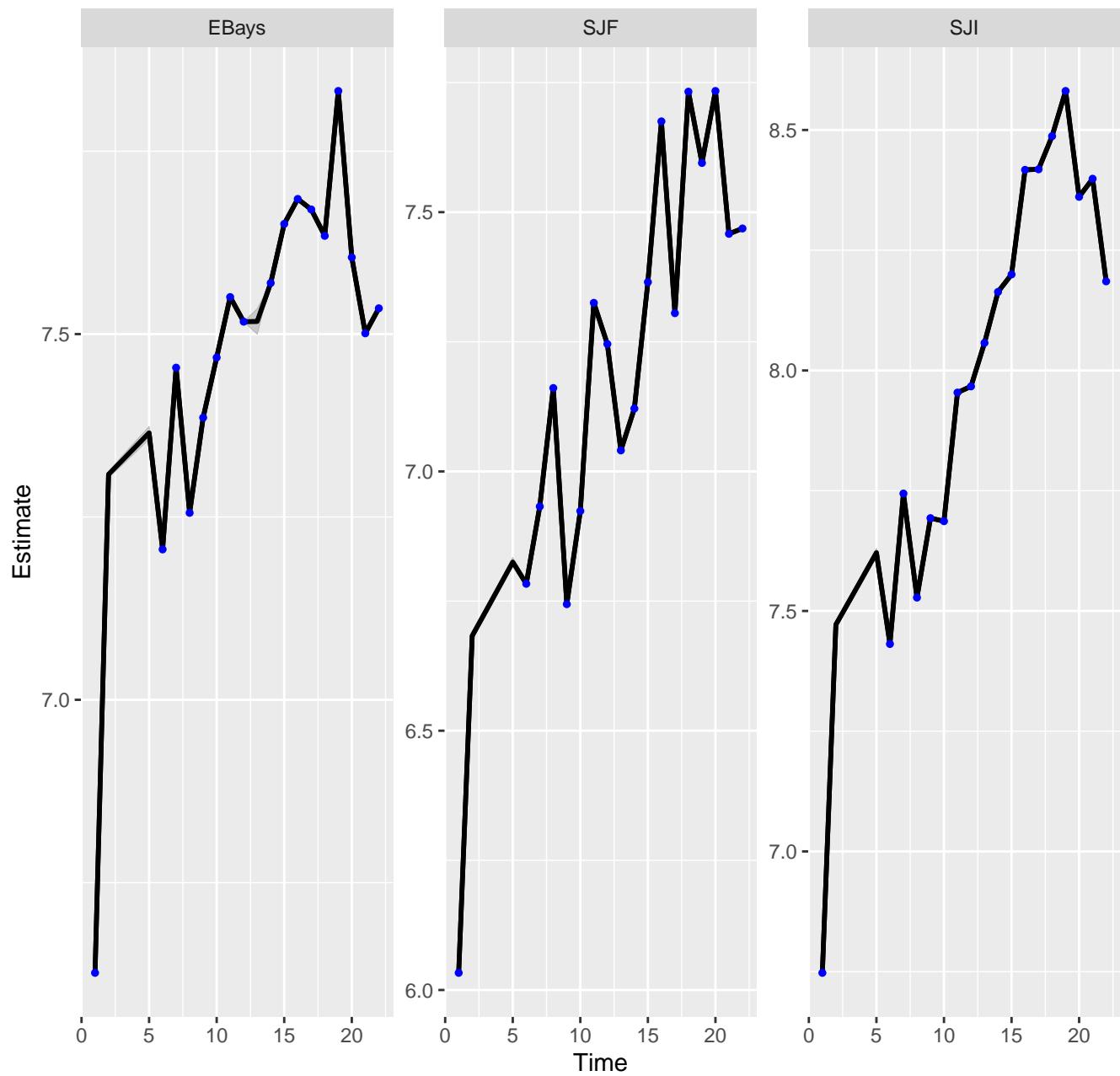
Model residuals normality test



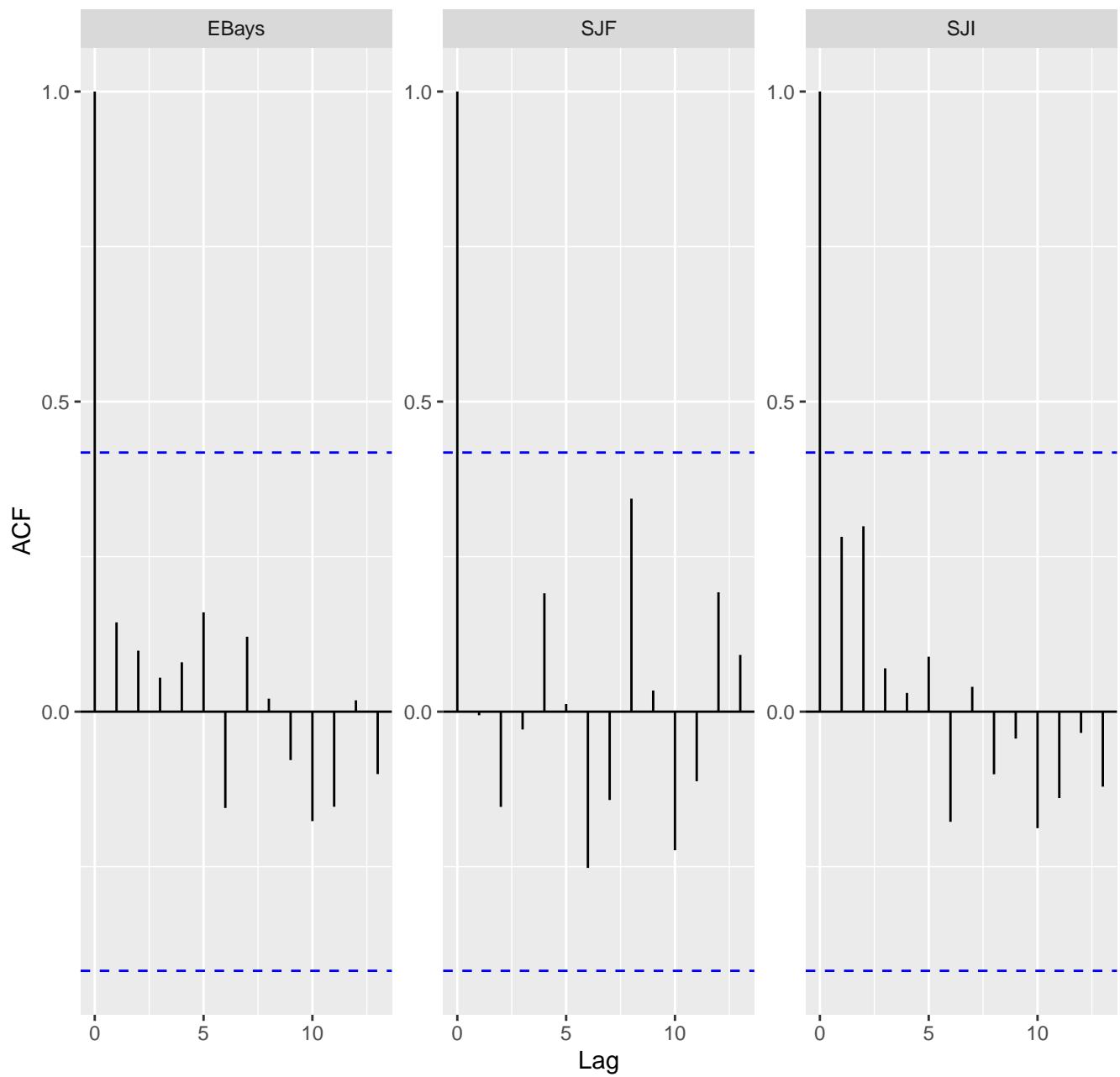
State residuals normality test

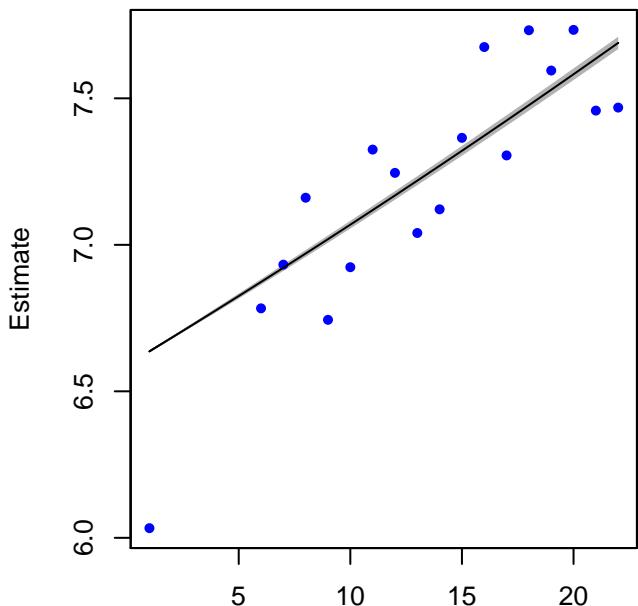
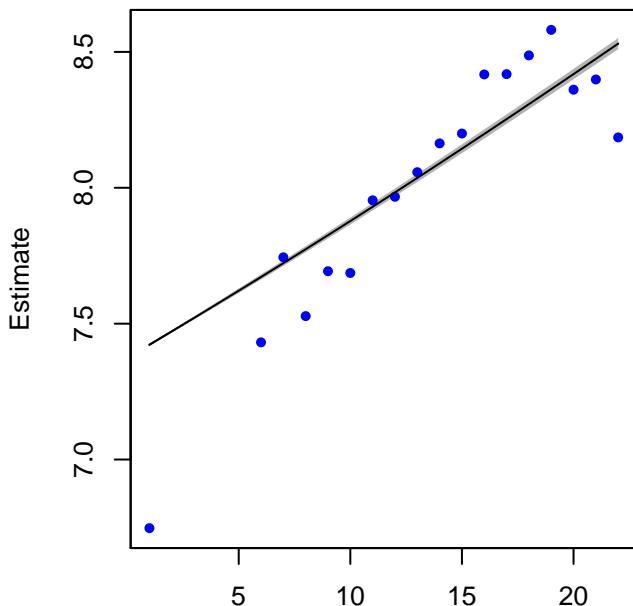
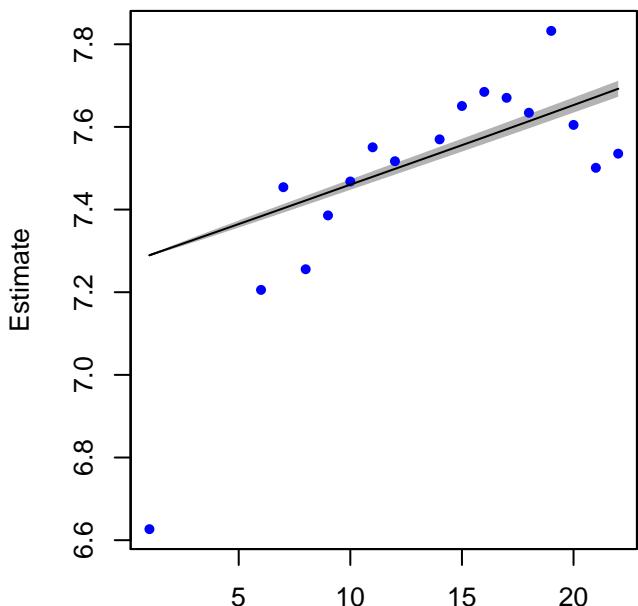


Expected value of Y conditioned on data

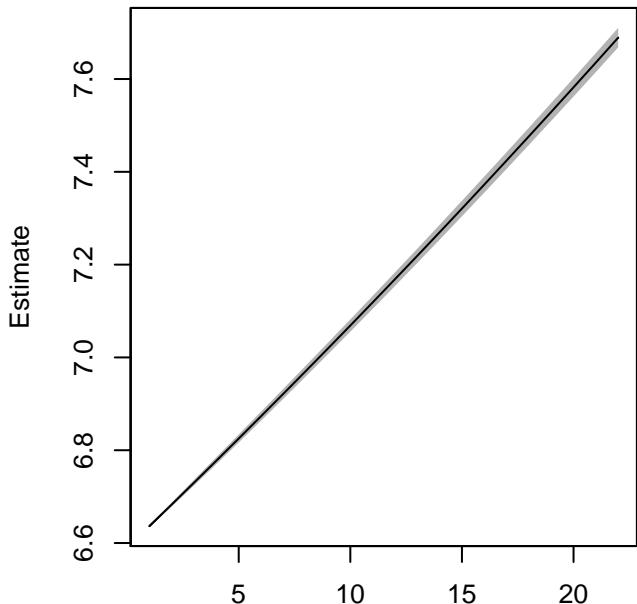


Model innovations residuals ACF

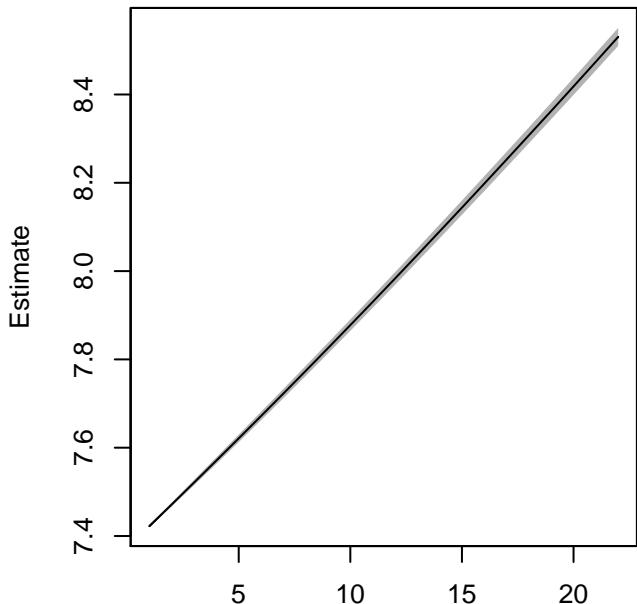


SJF + CI**SJI + CI****EBays + CI**

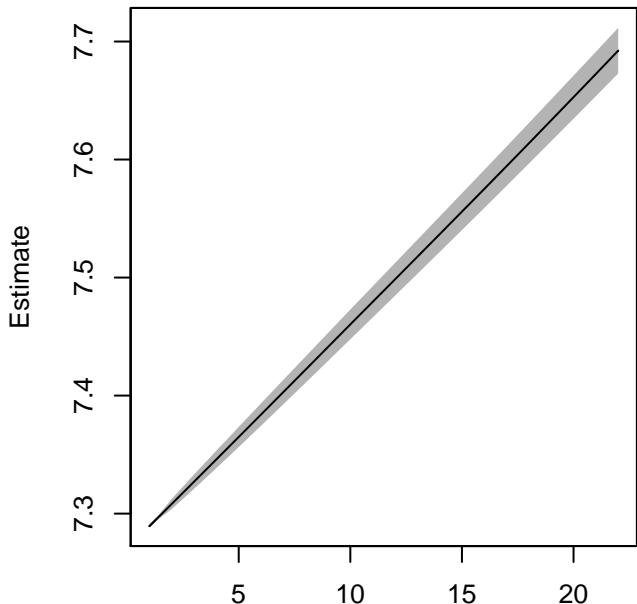
State X.SJF

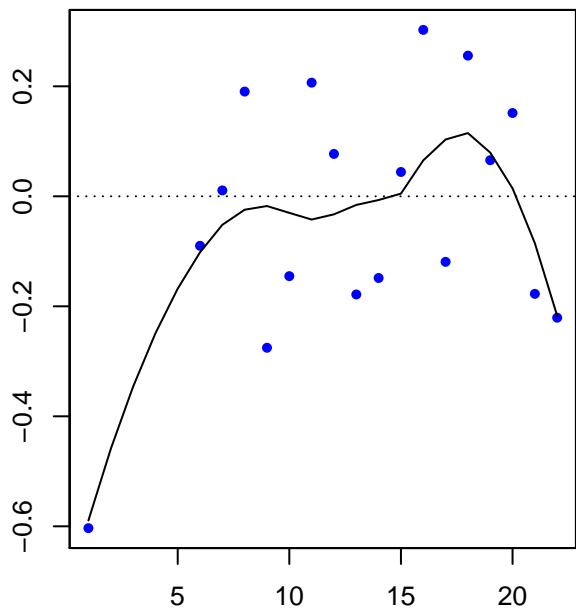
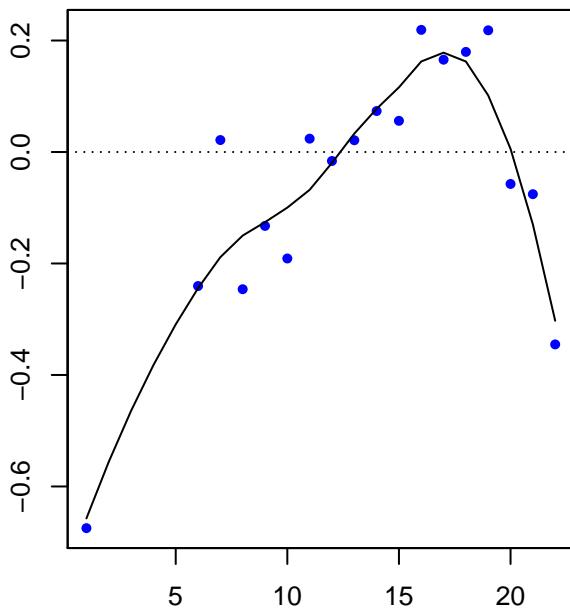
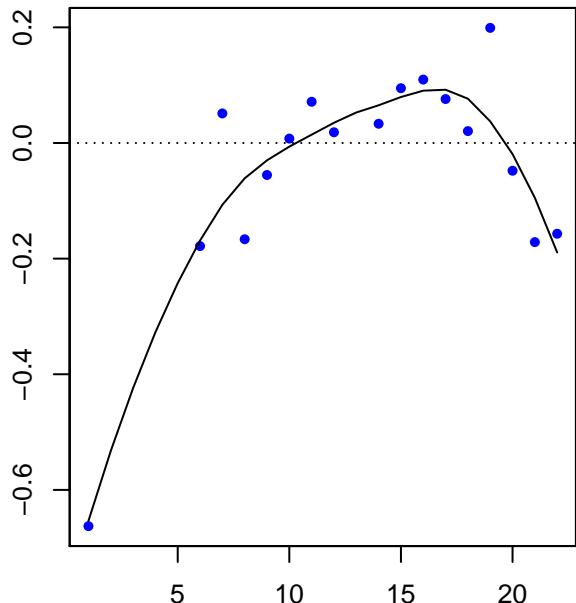


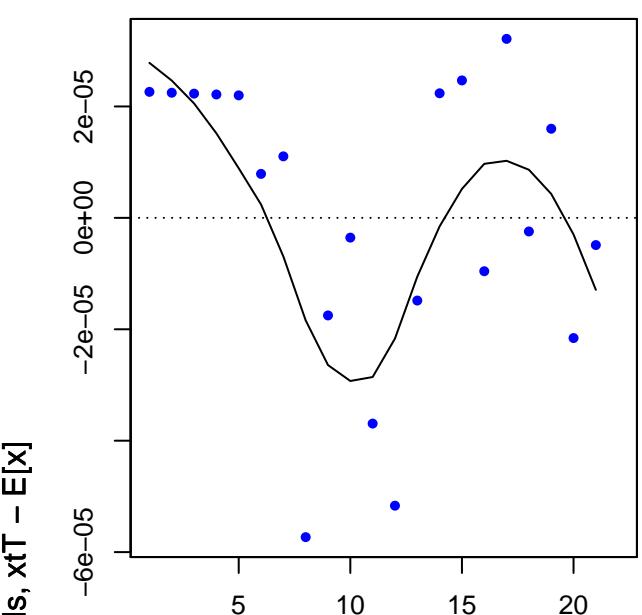
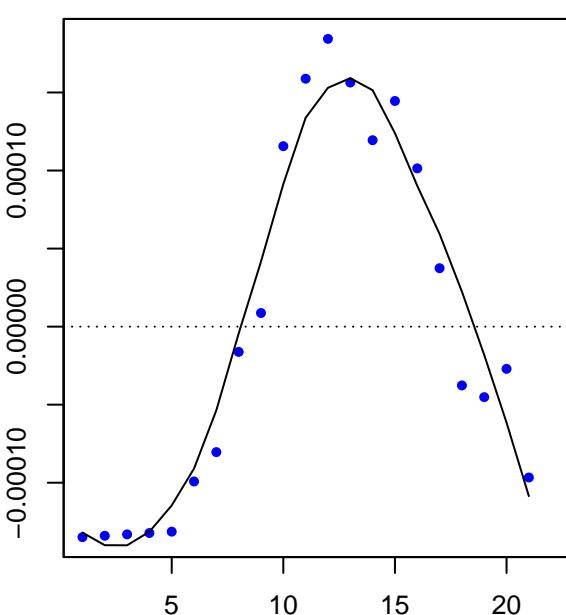
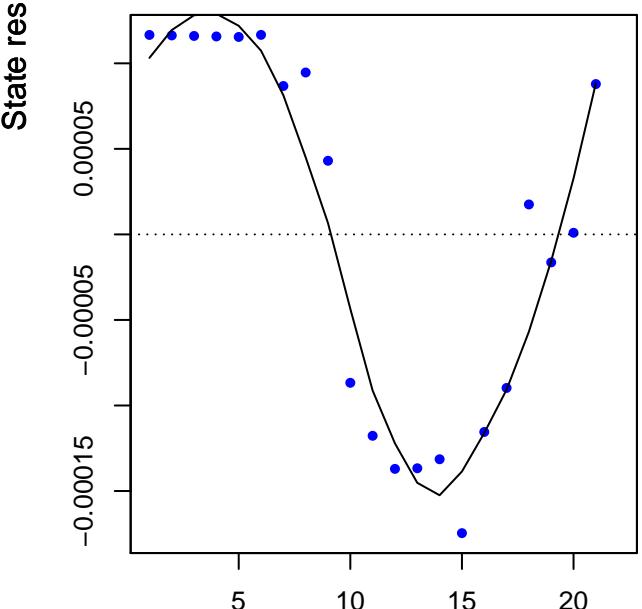
State X.SJI

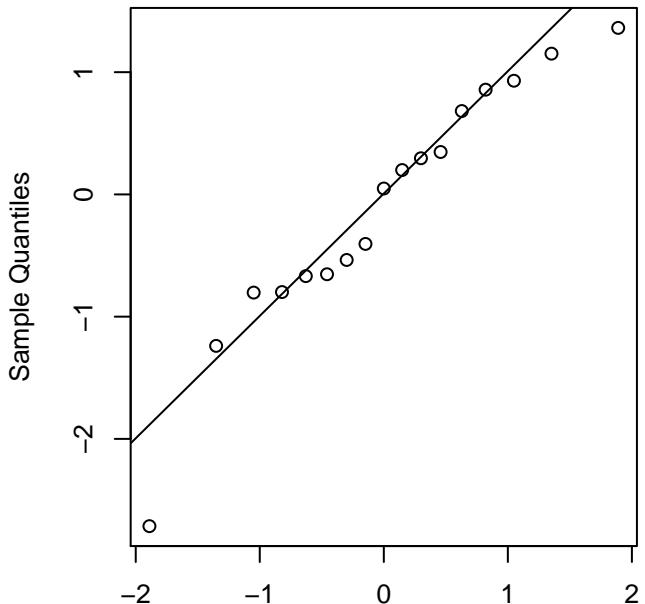
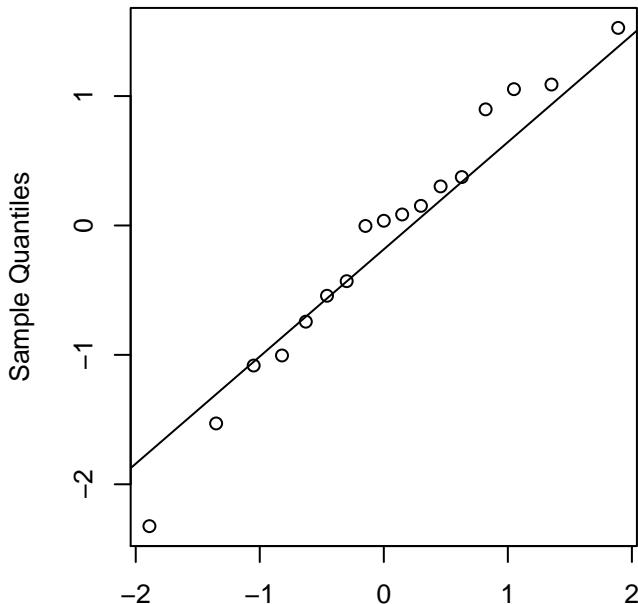
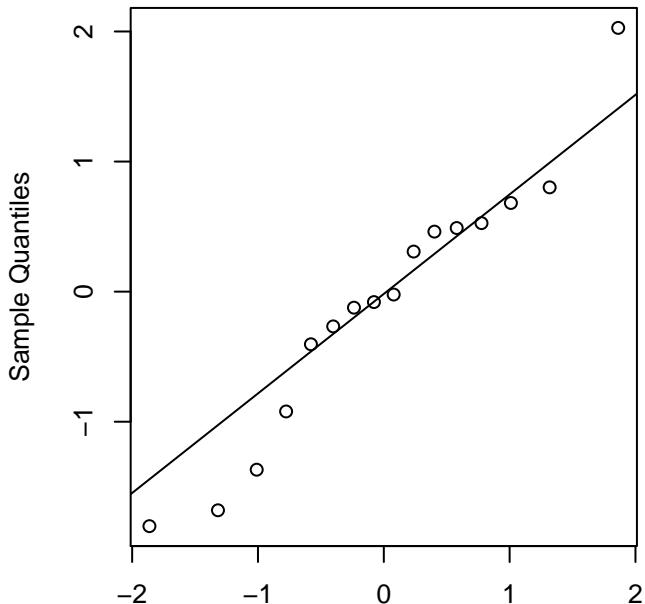


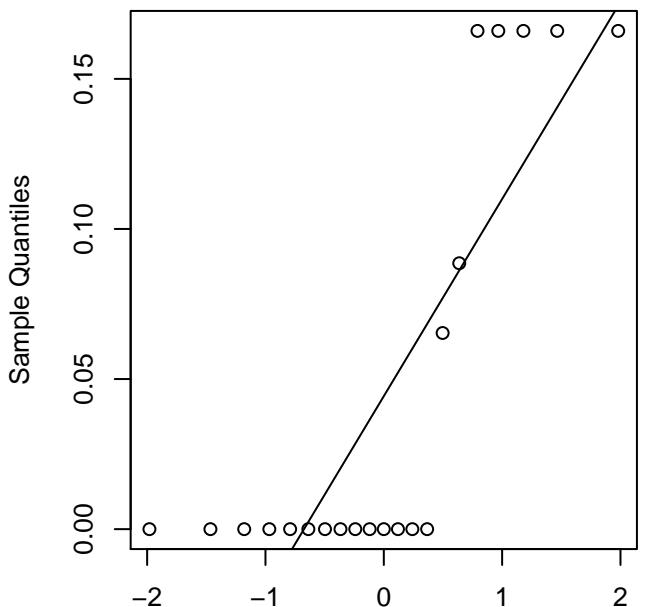
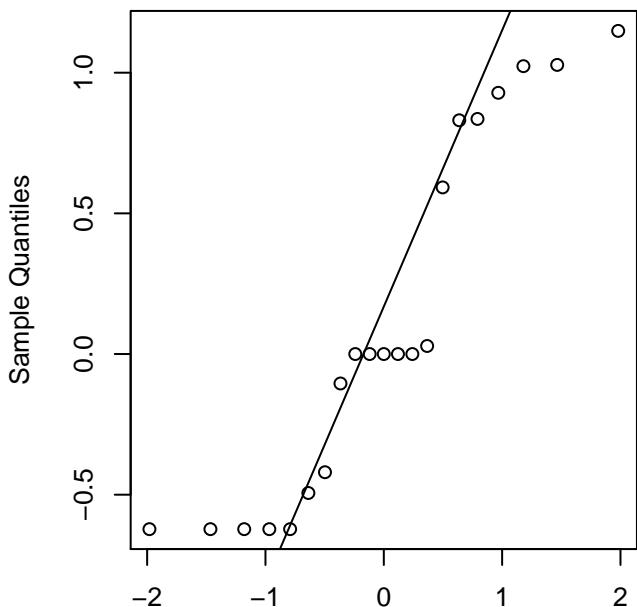
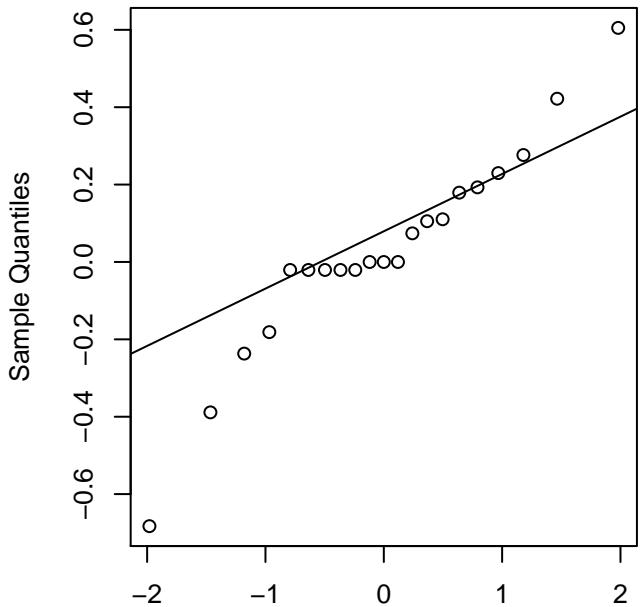
State X.EBays

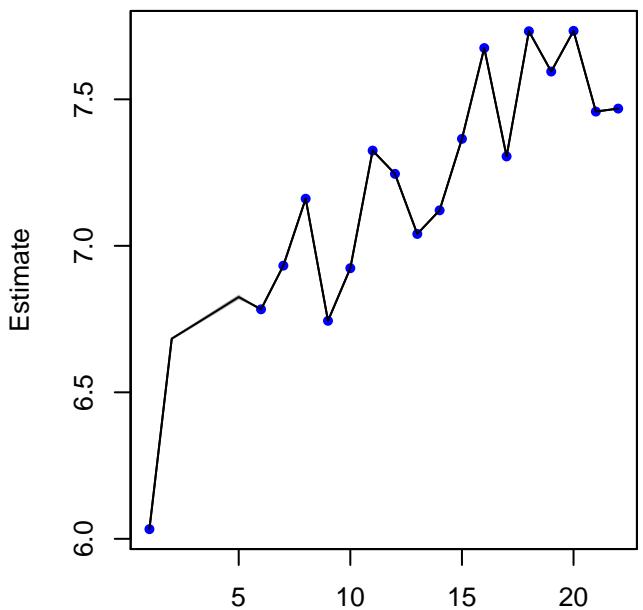
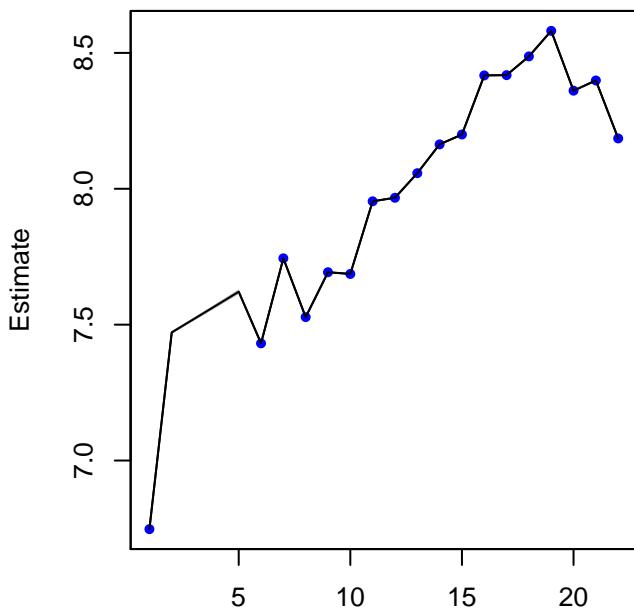
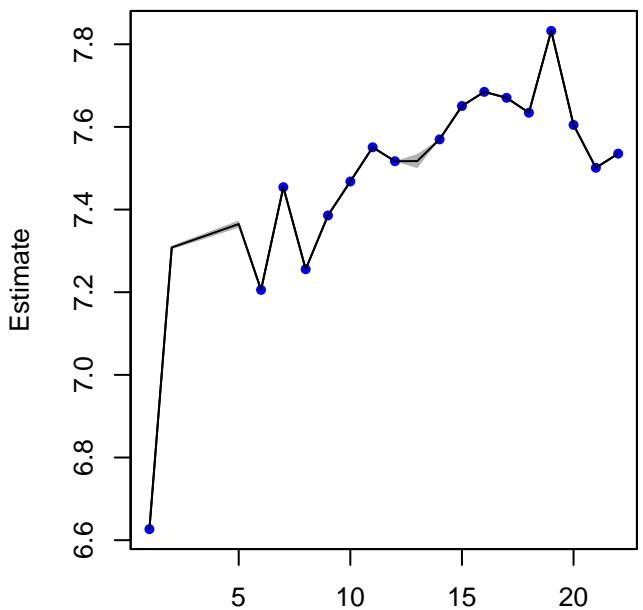


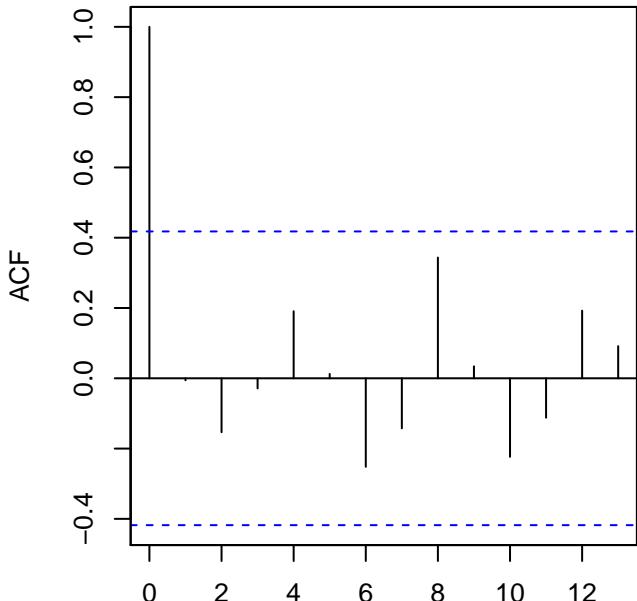
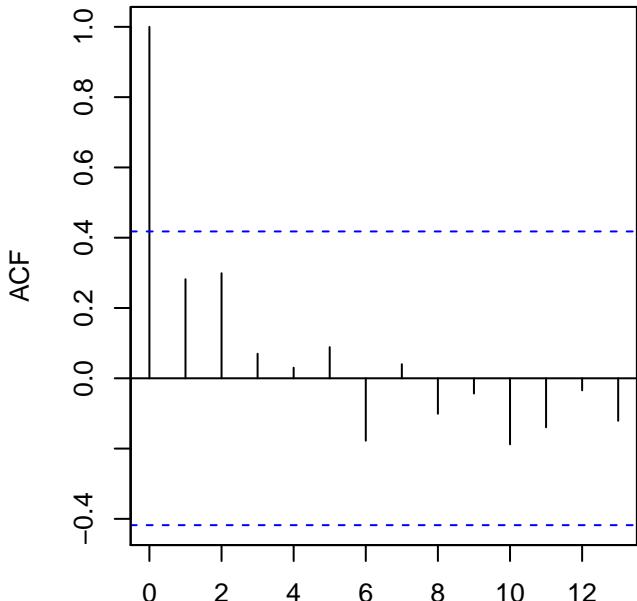
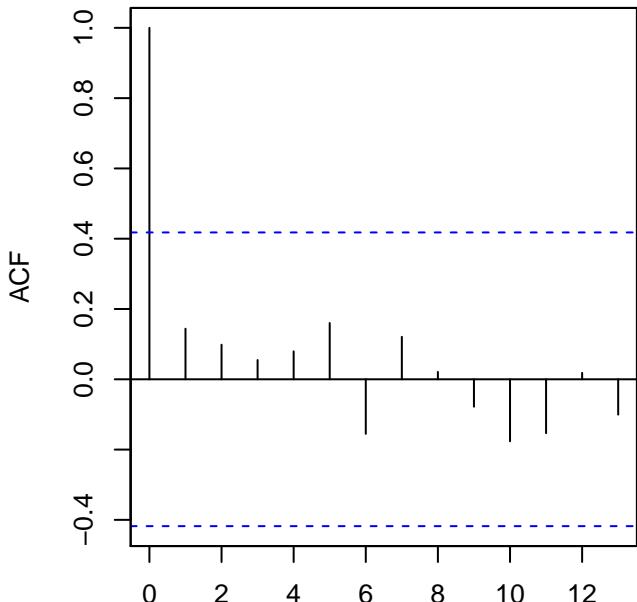
SJFObservation residuals, $y - E[y]$ **SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

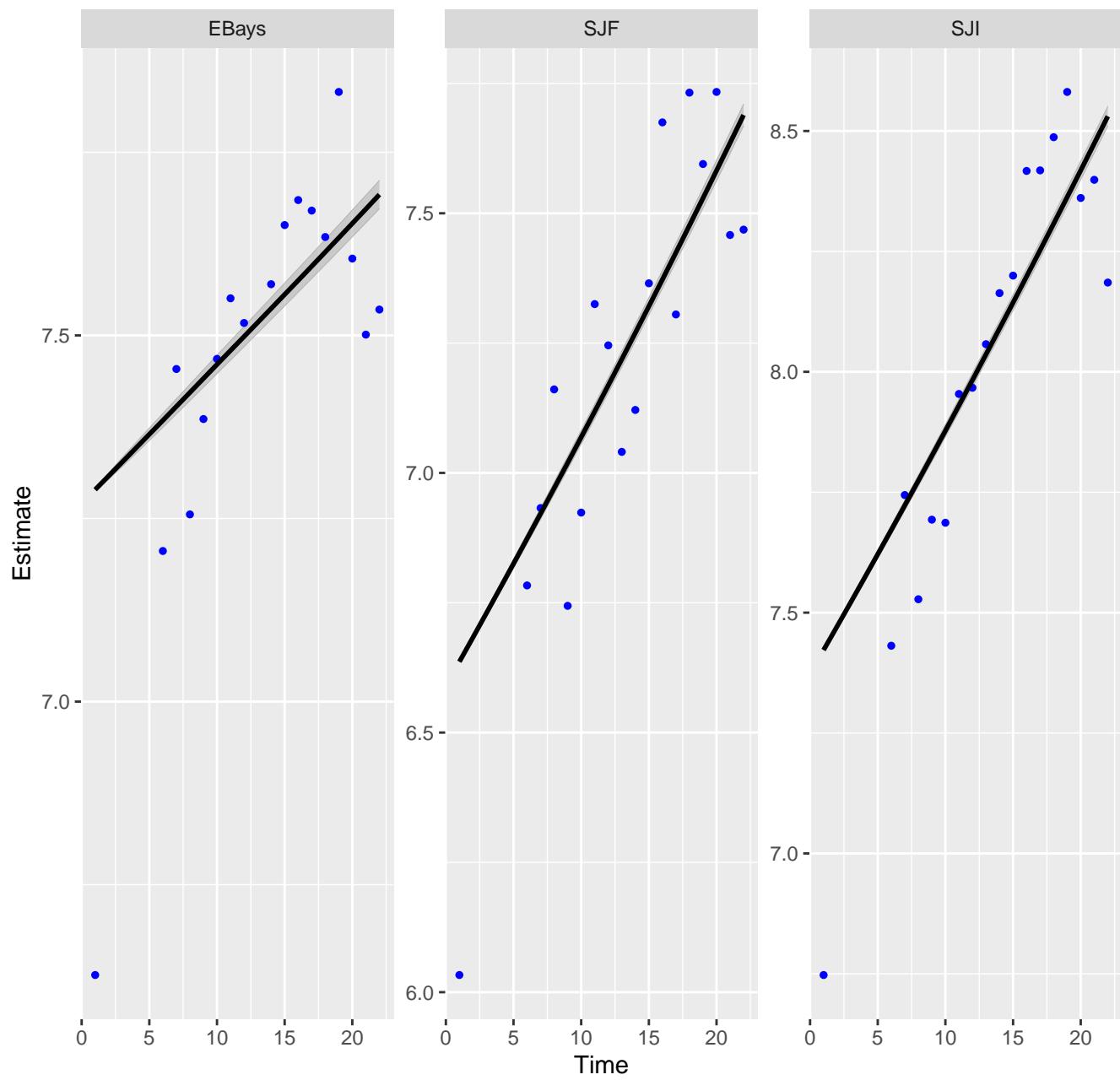
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

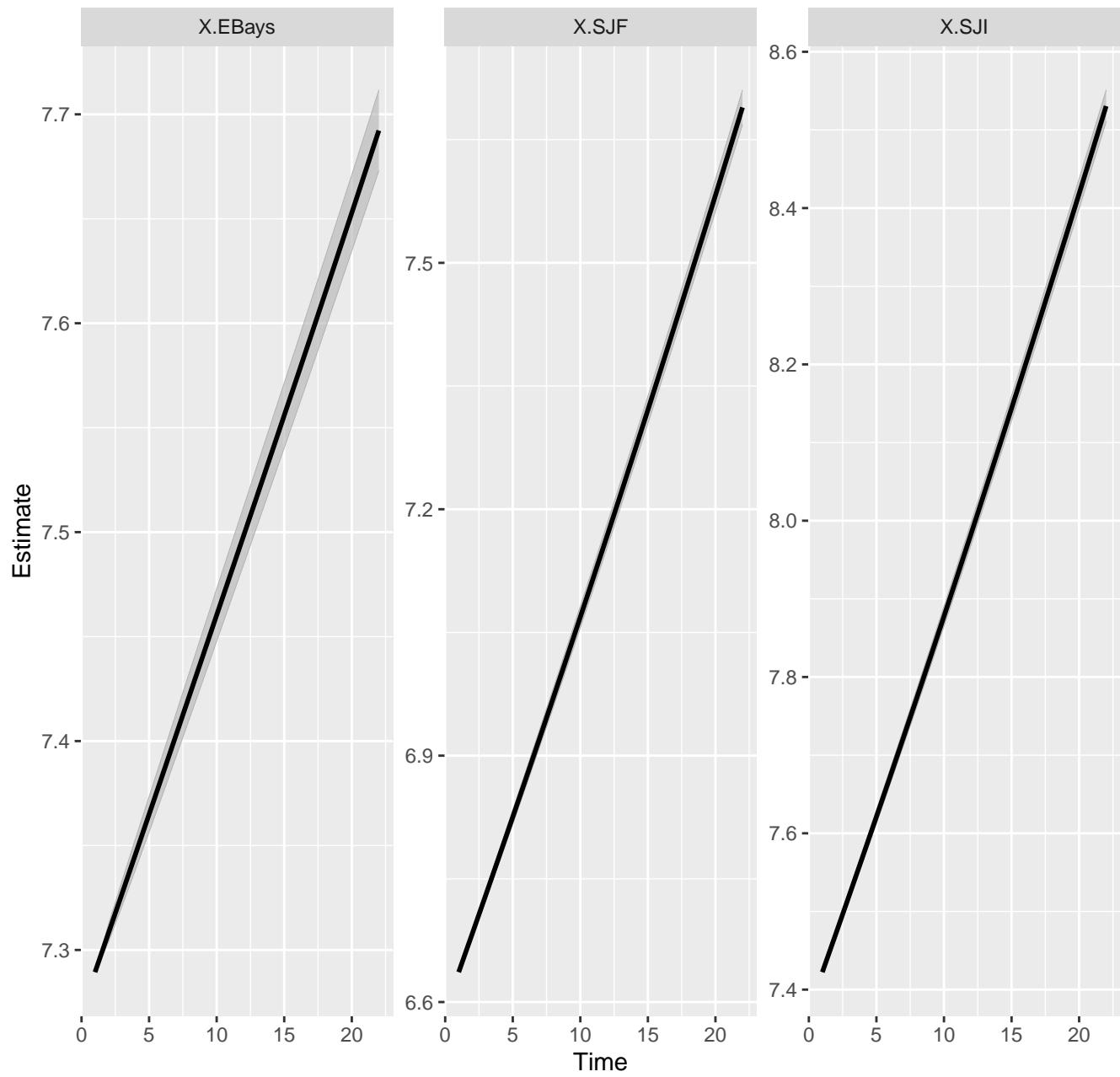
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

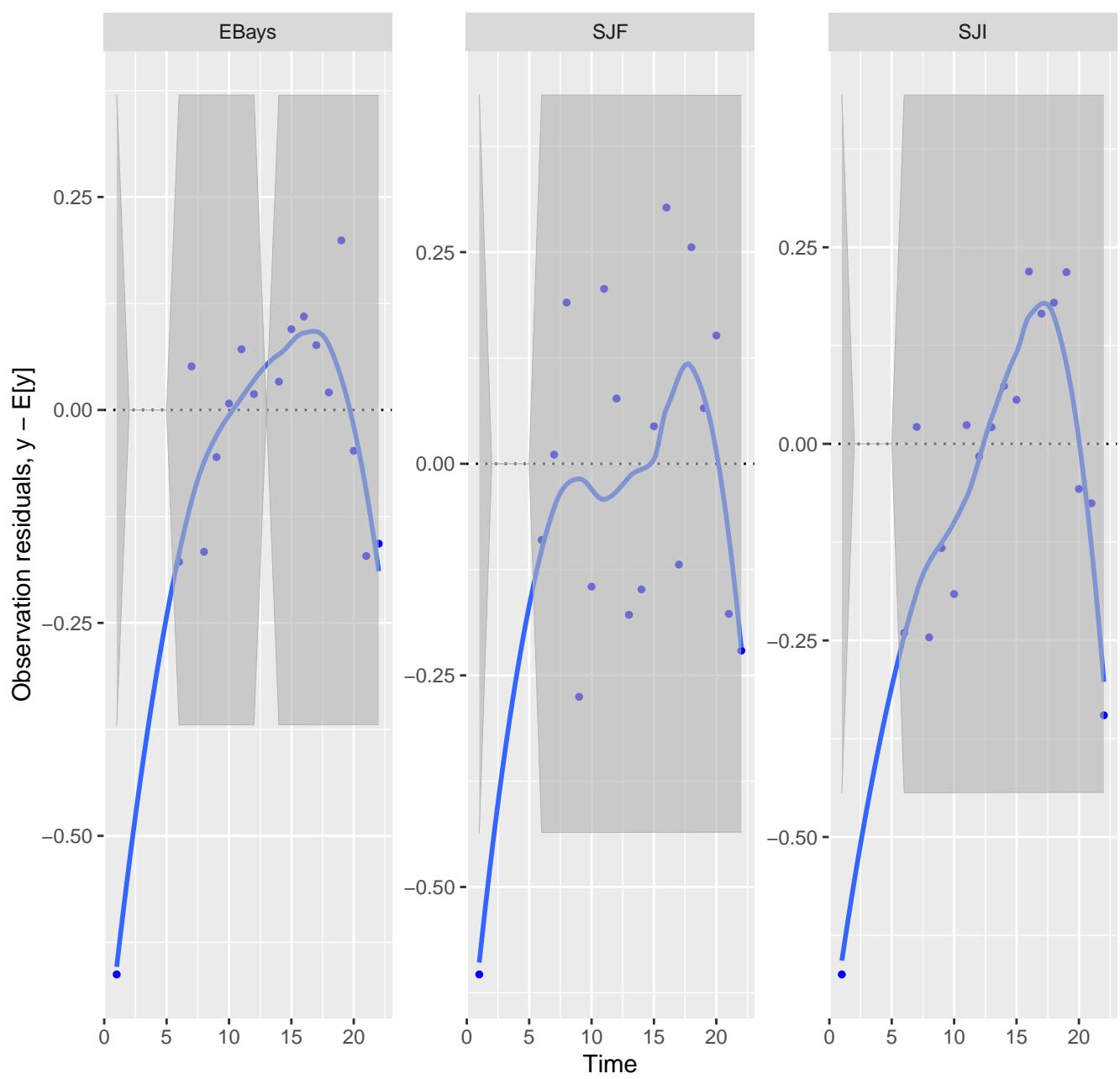
Model fitted Y + CI



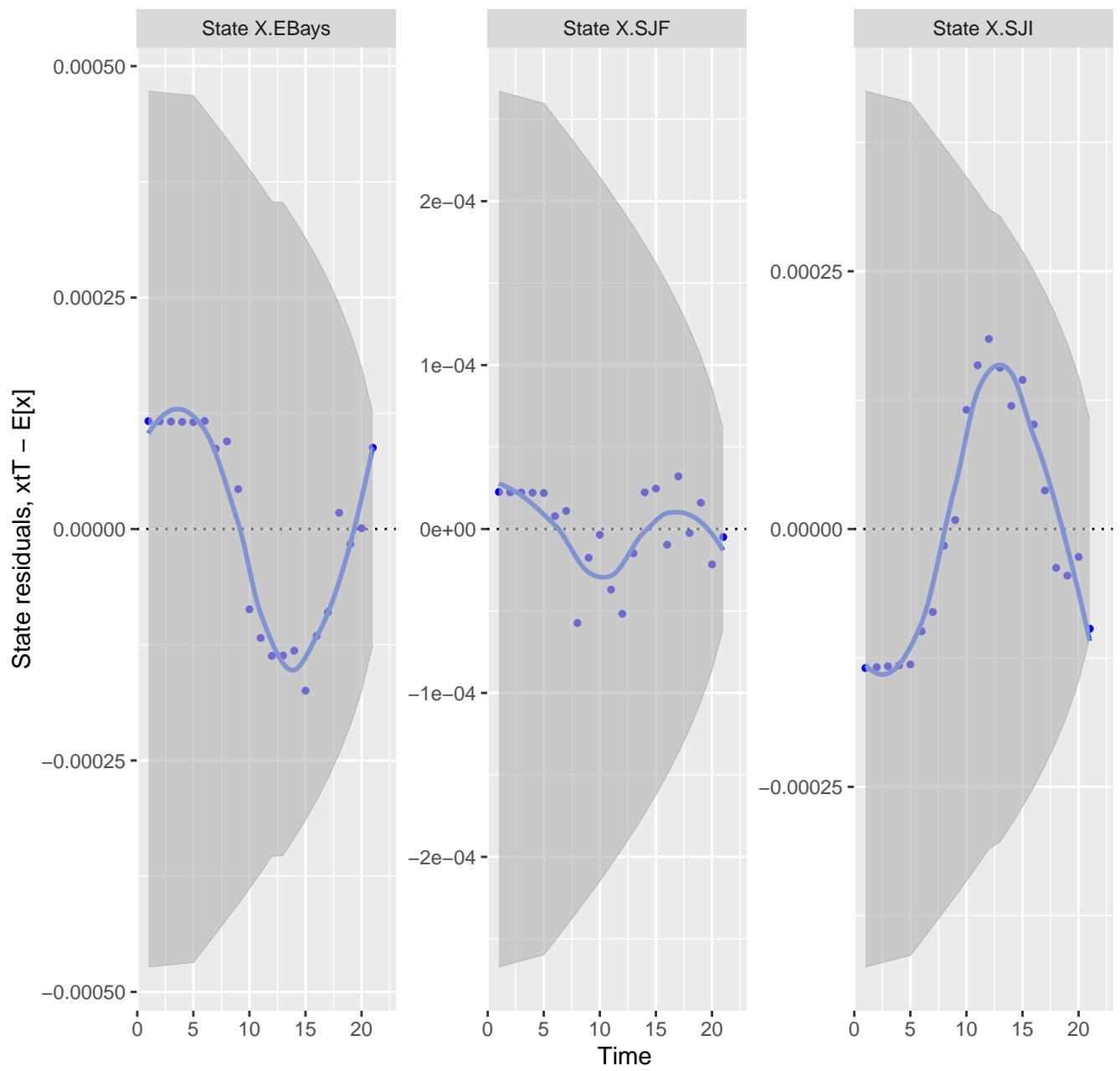
States



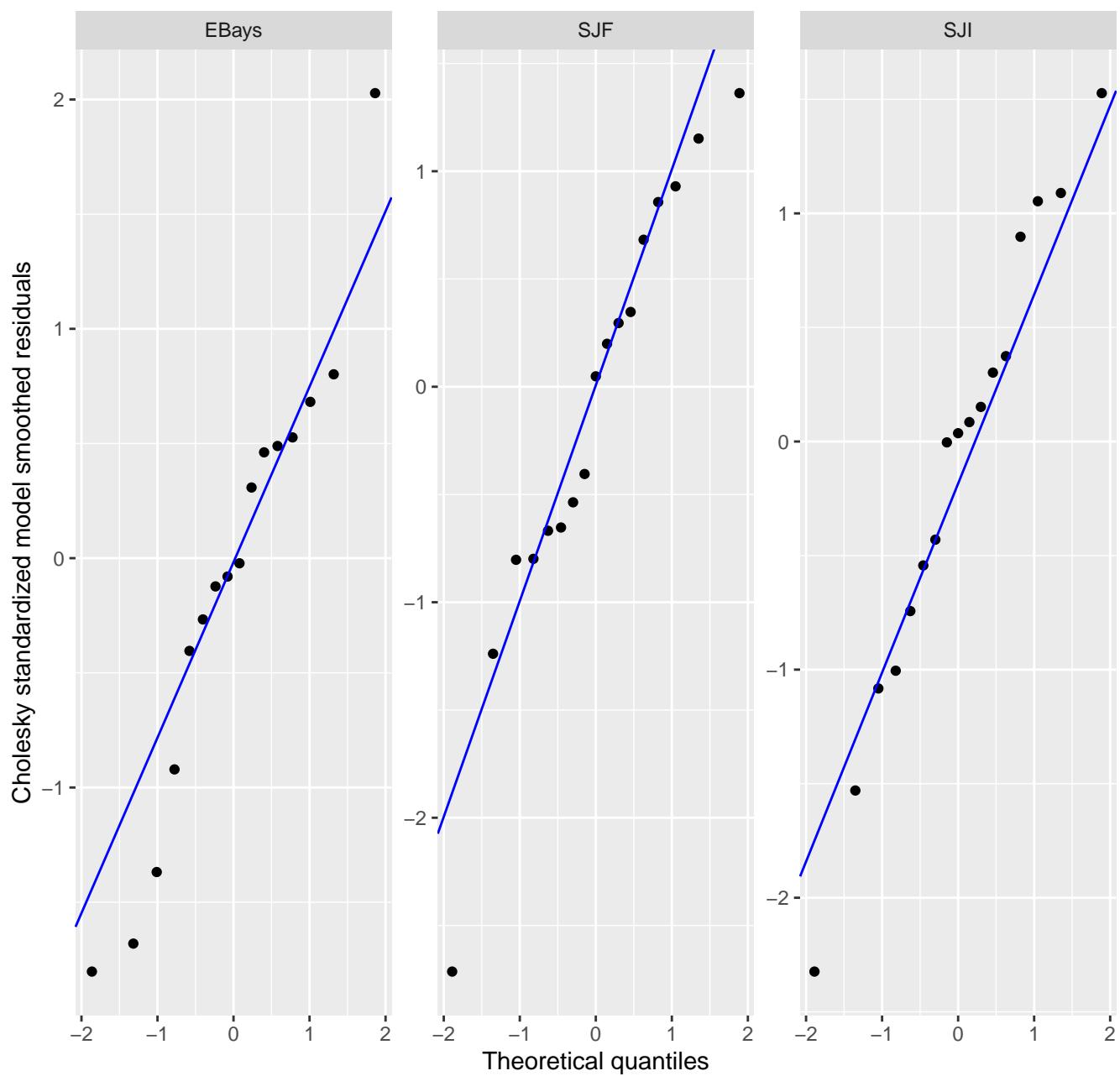
Model residuals



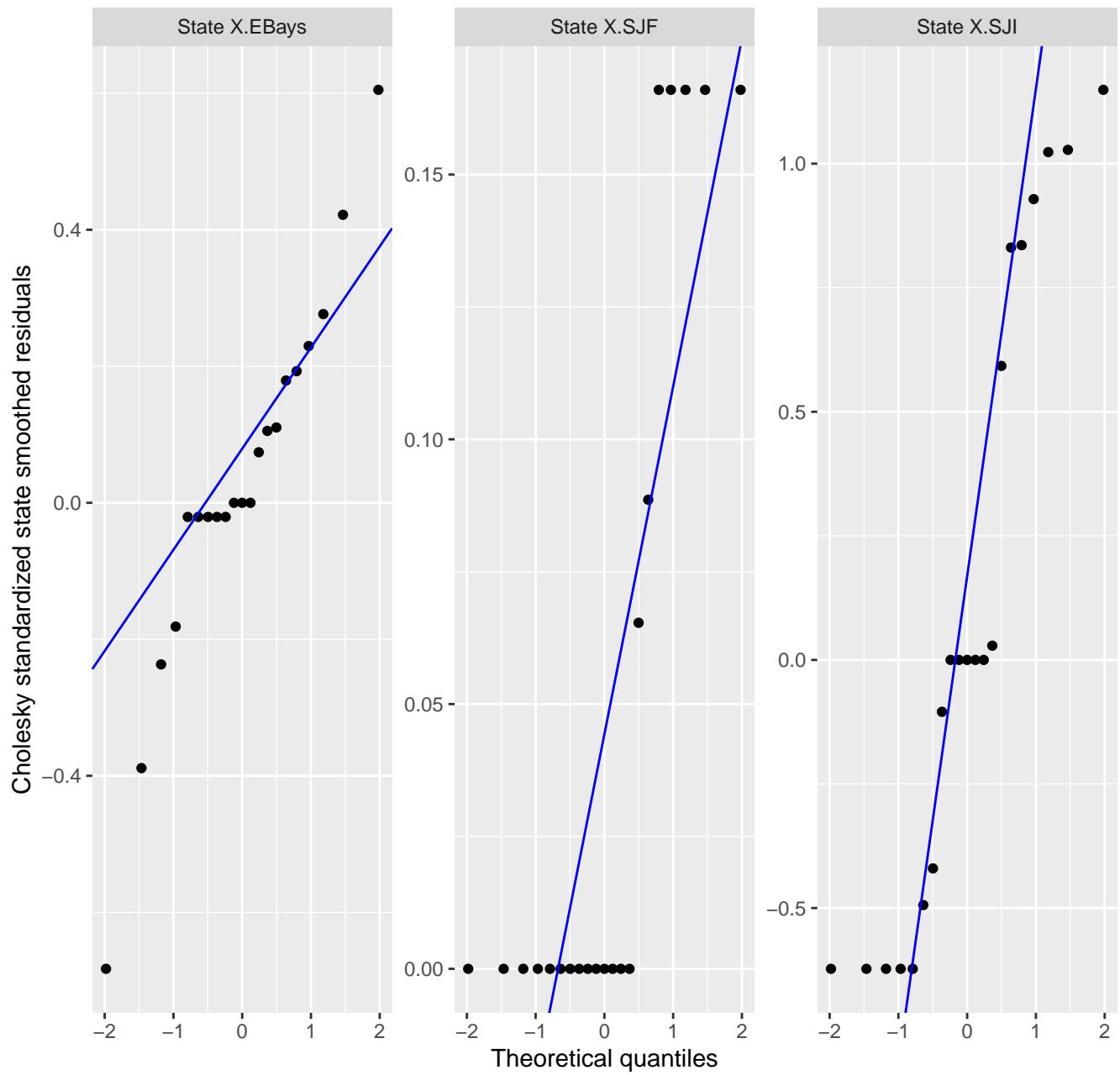
State residuals



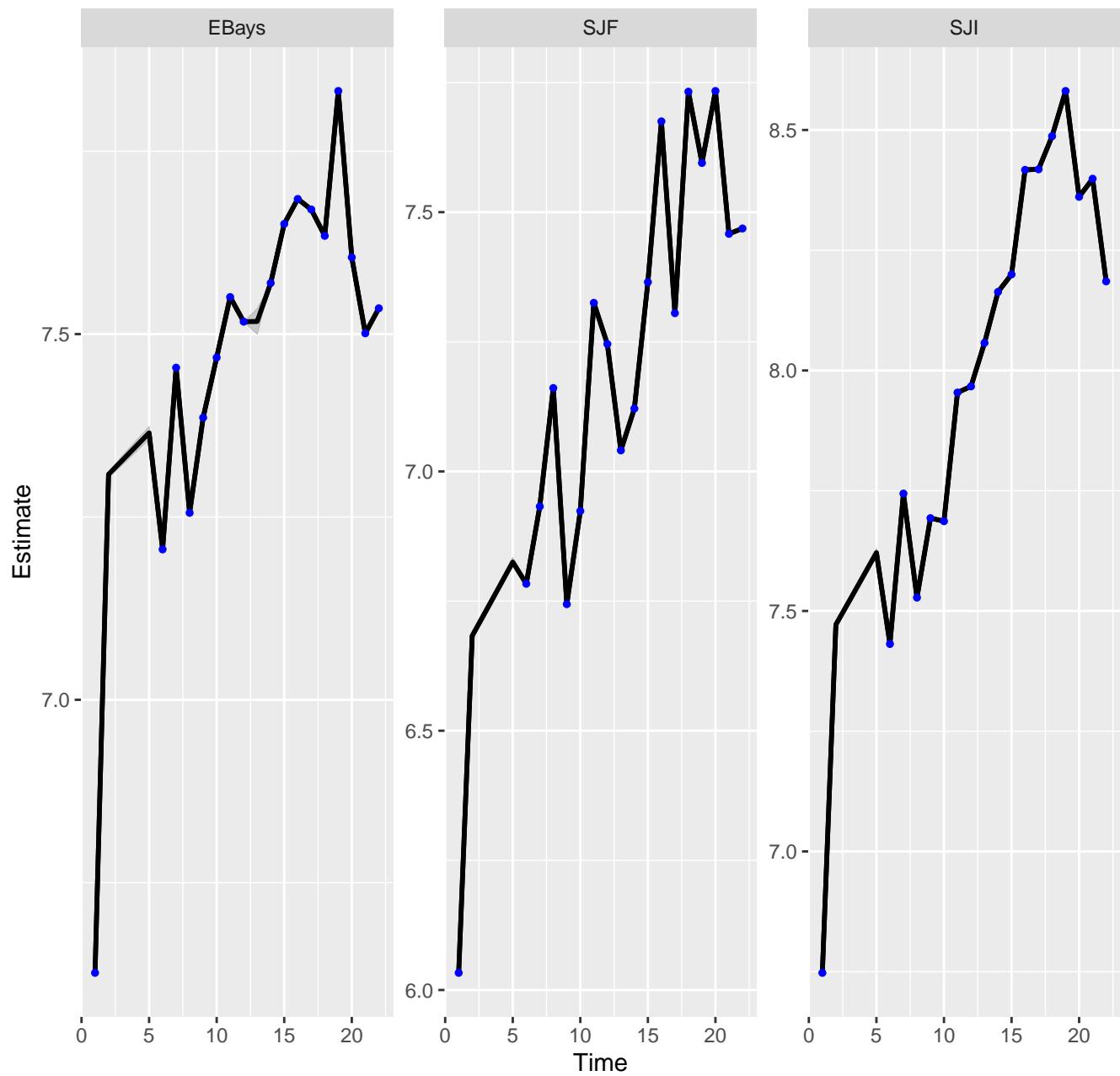
Model residuals normality test



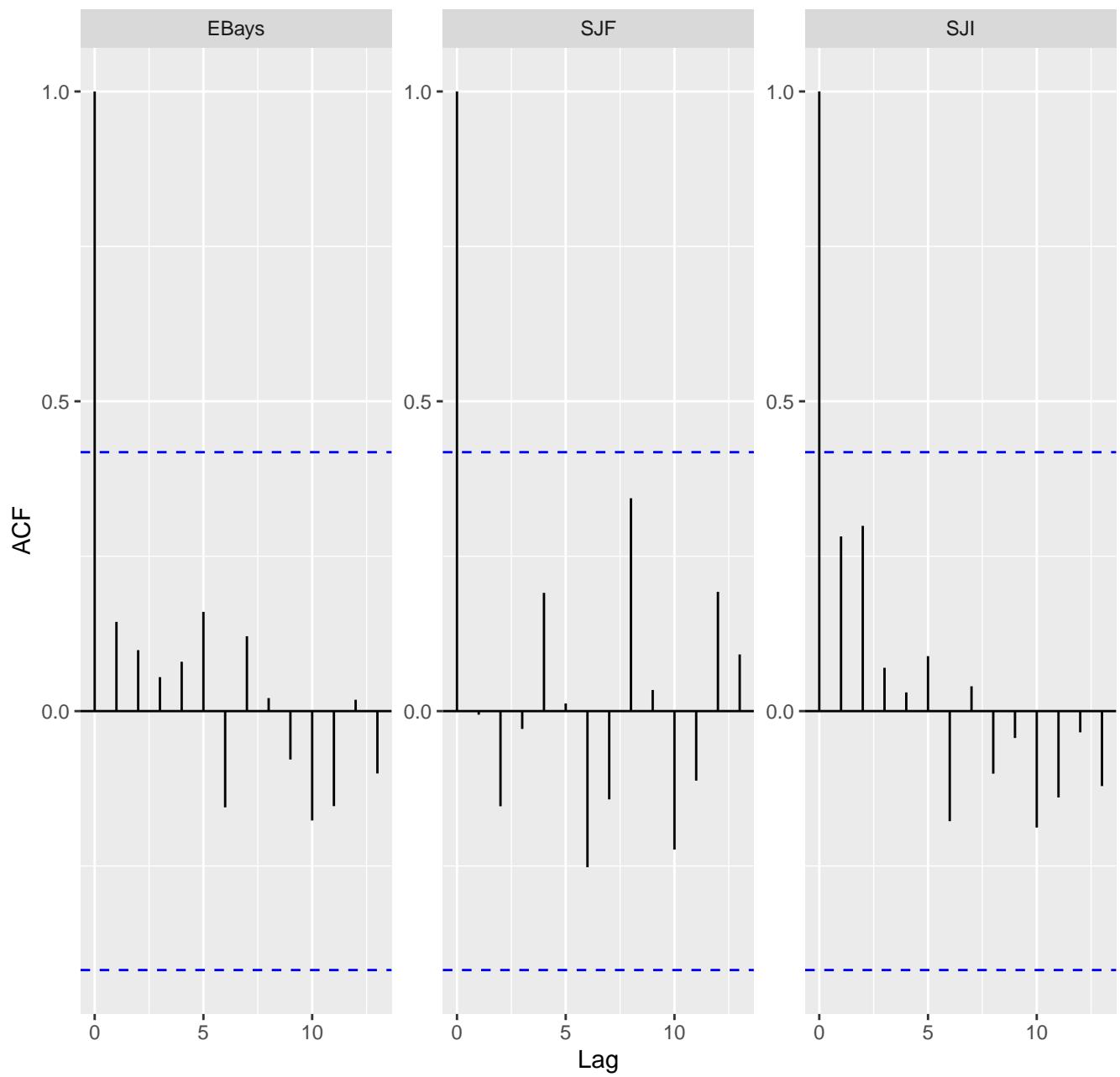
State residuals normality test

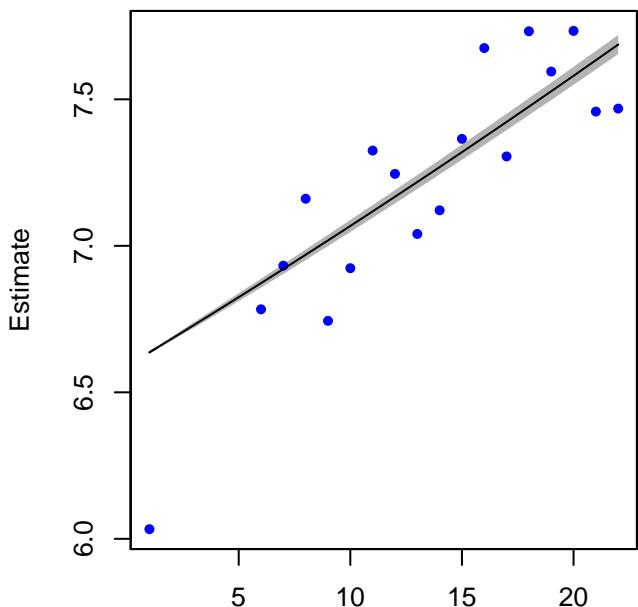
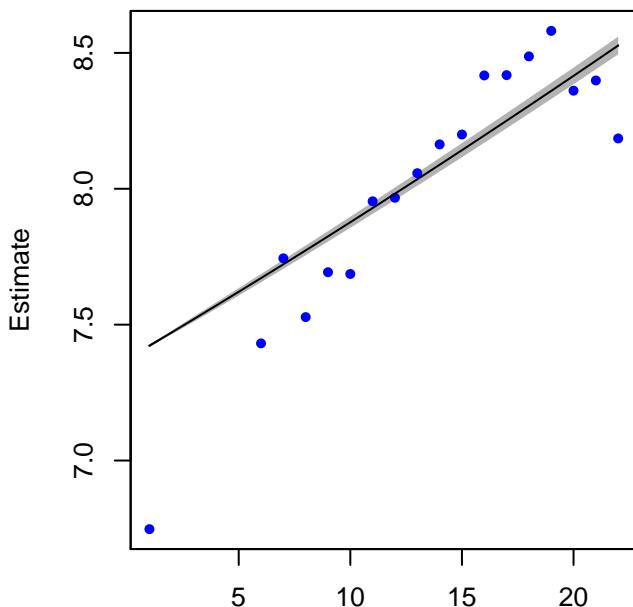
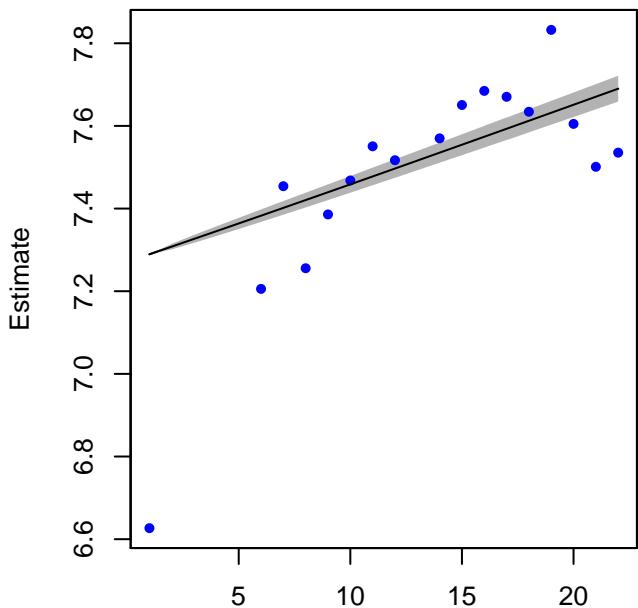


Expected value of Y conditioned on data

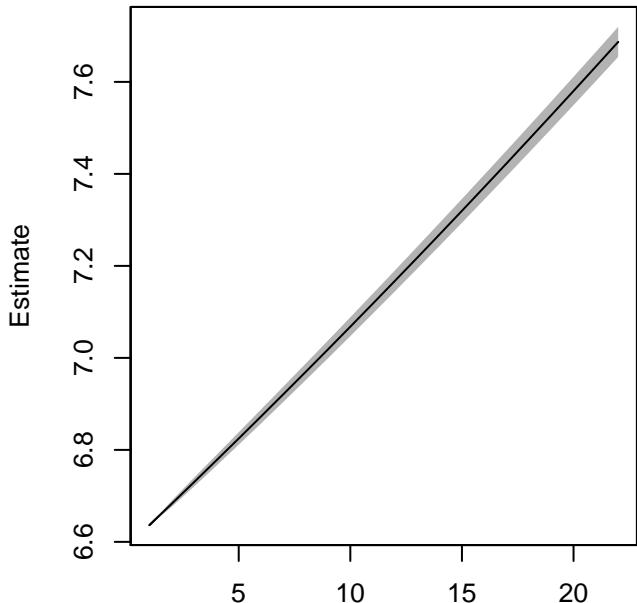


Model innovations residuals ACF

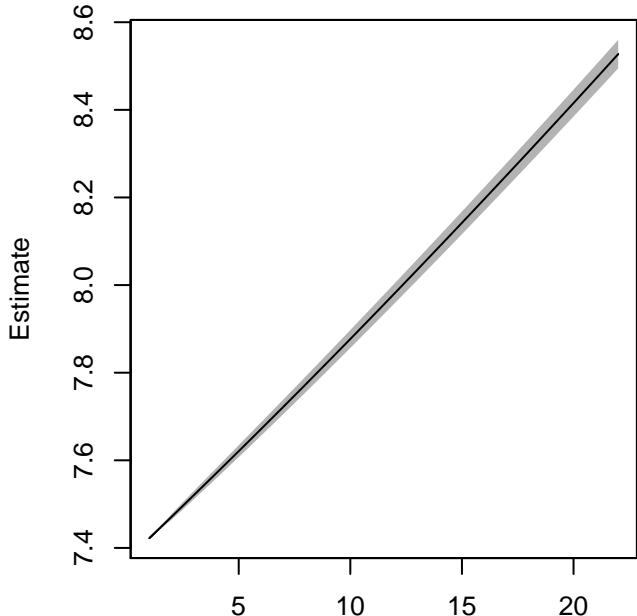


SJF + CI**SJI + CI****EBays + CI**

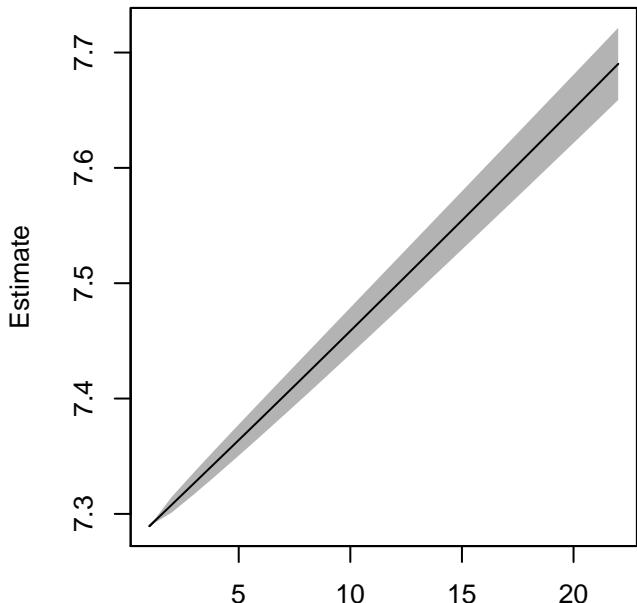
State X.SJF

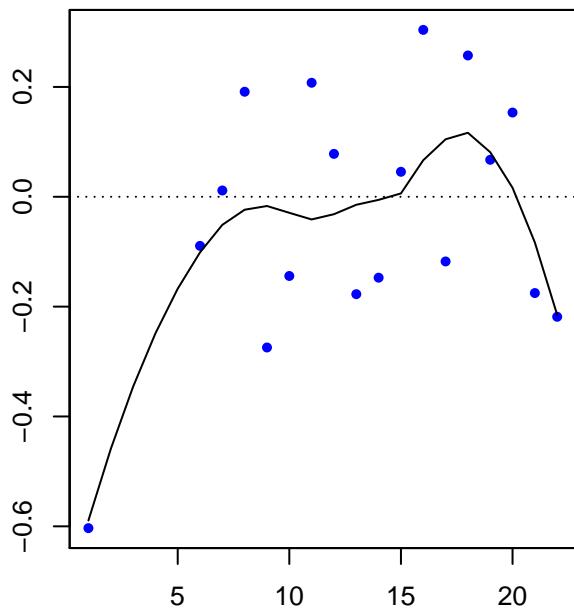
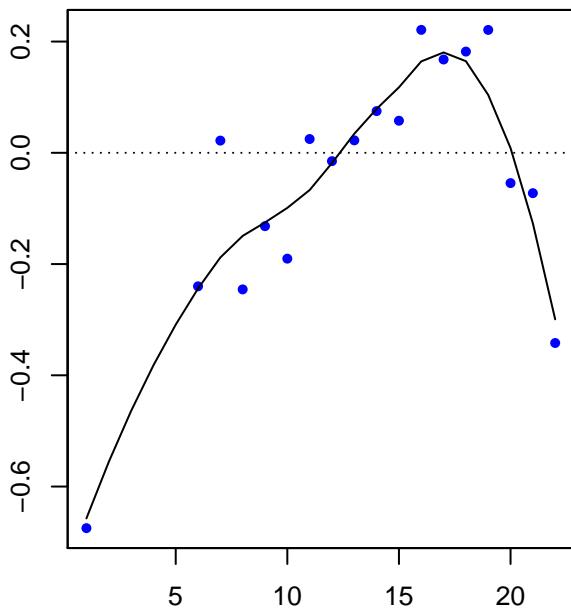
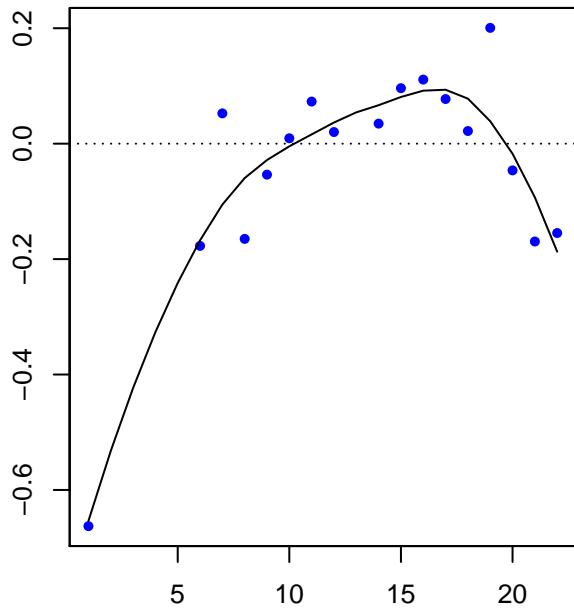


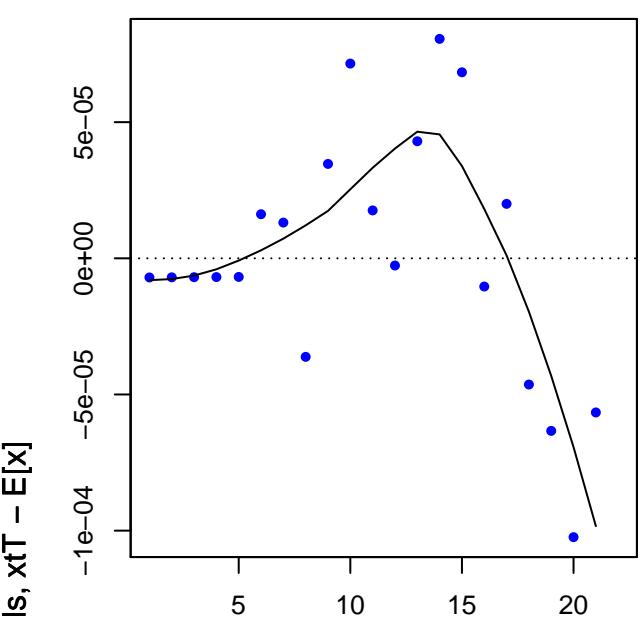
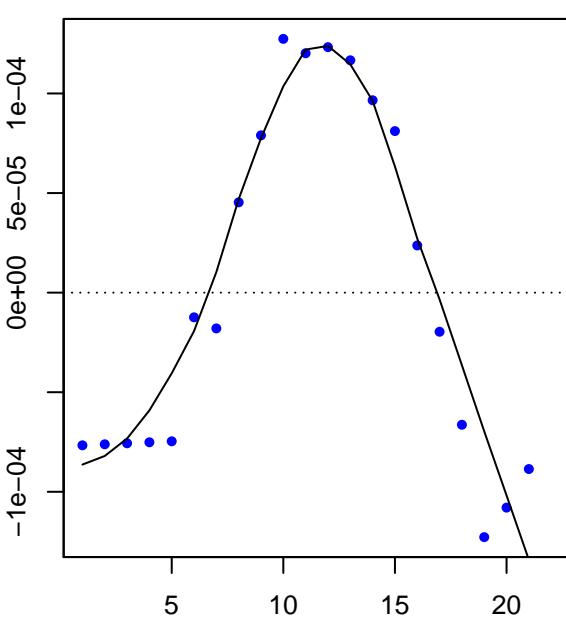
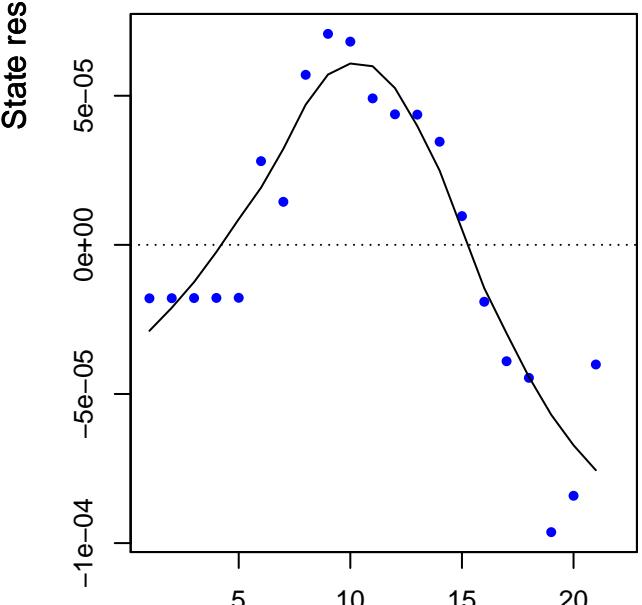
State X.SJI

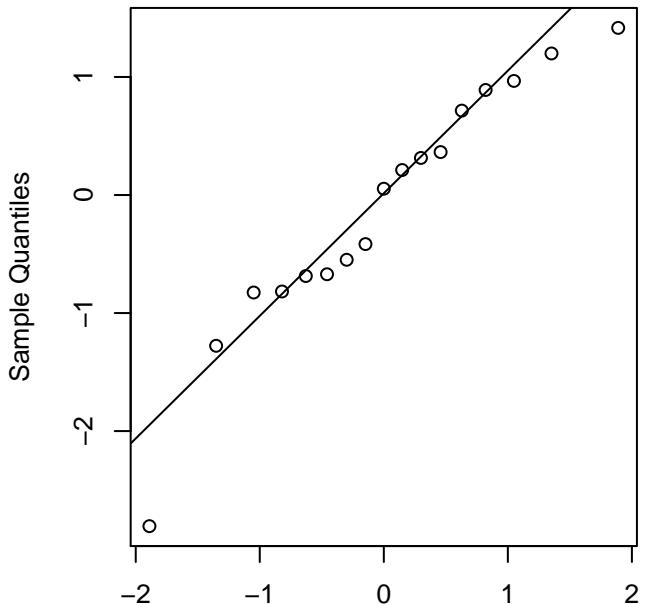
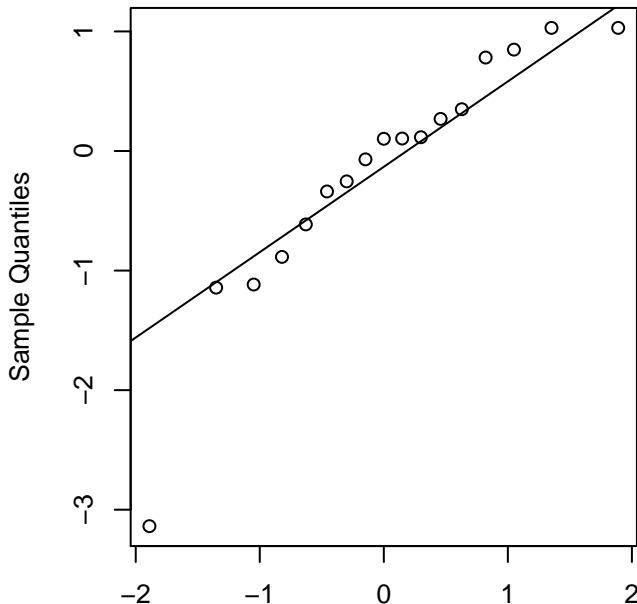
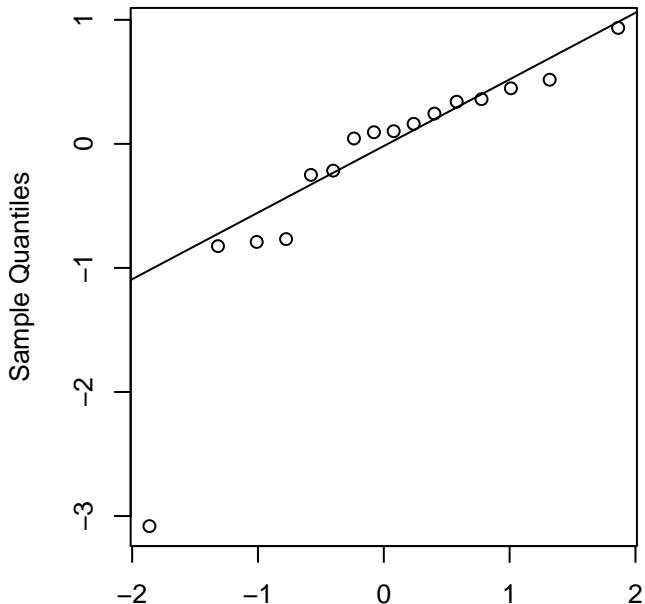


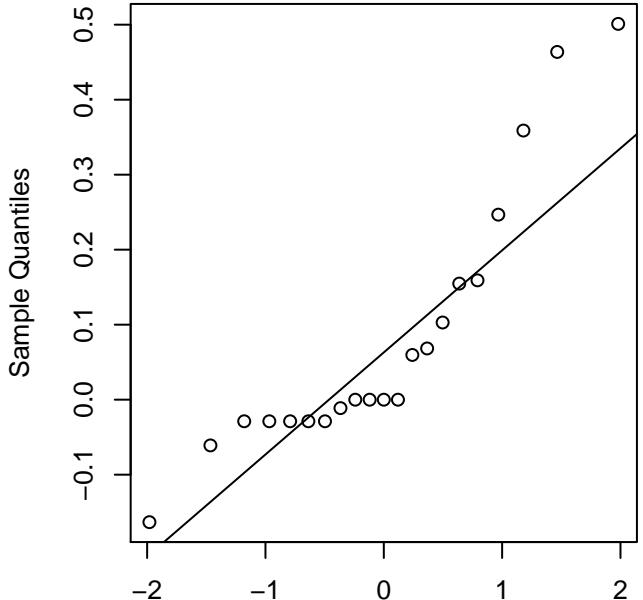
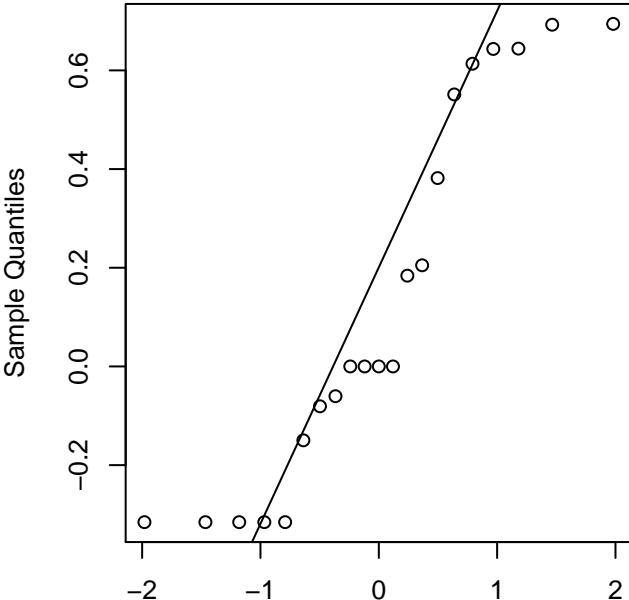
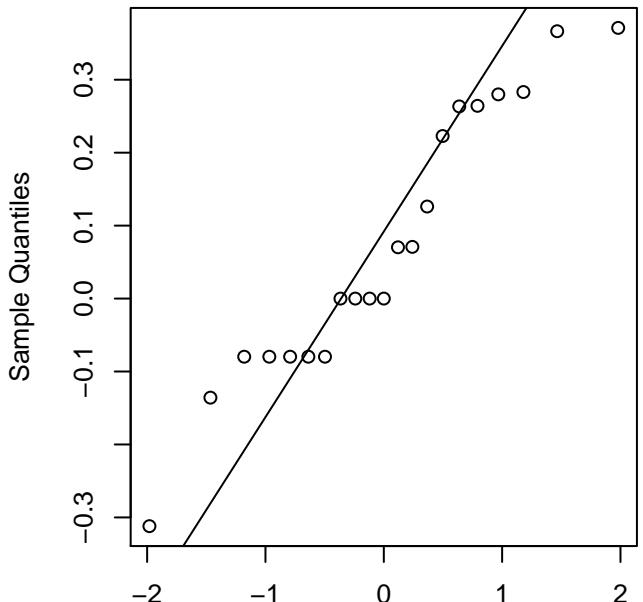
State X.EBays

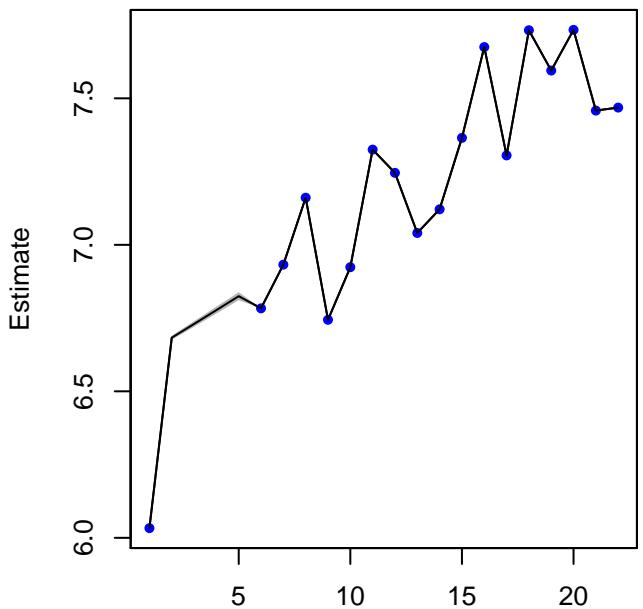
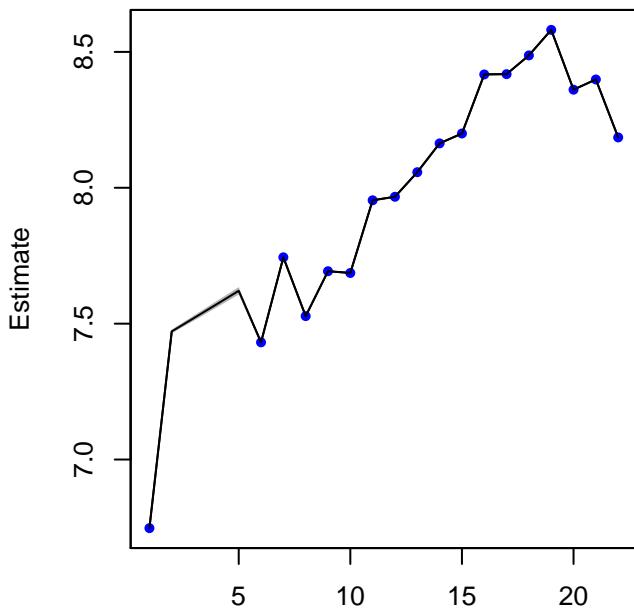
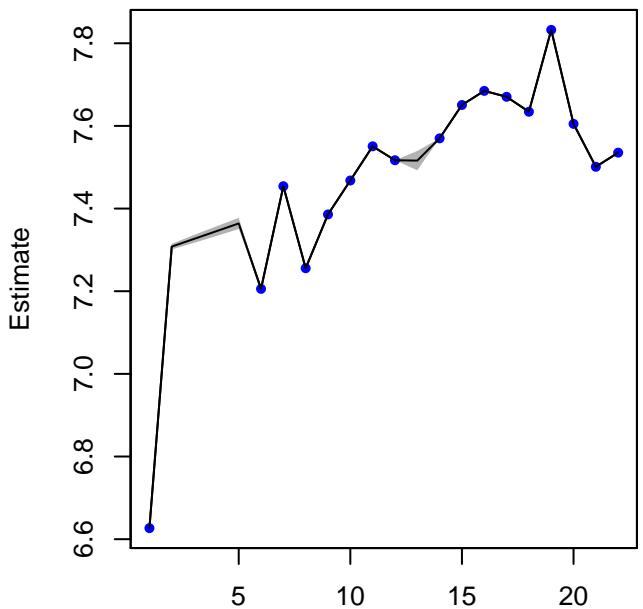


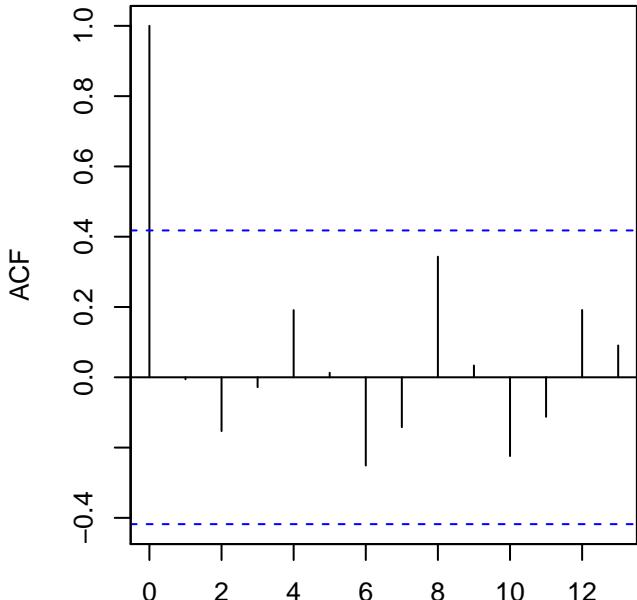
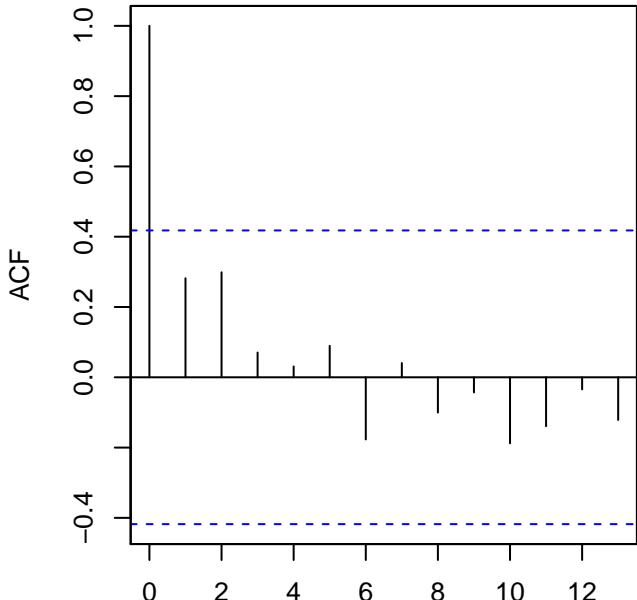
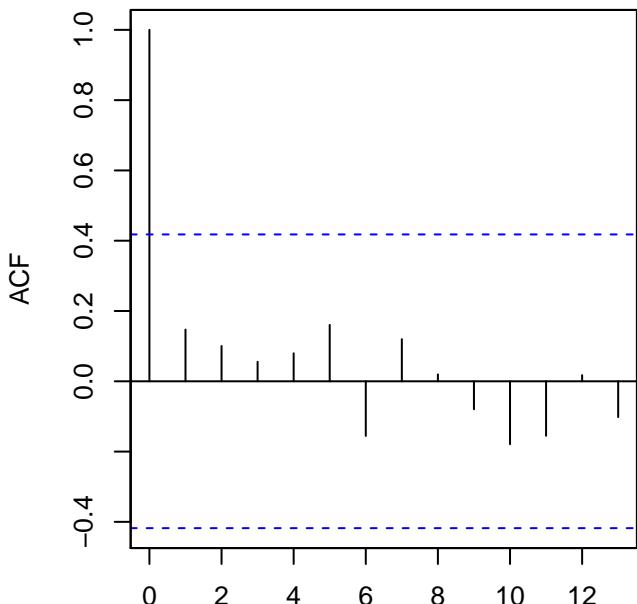
SJFObservation residuals, $y - E[y]$ **SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

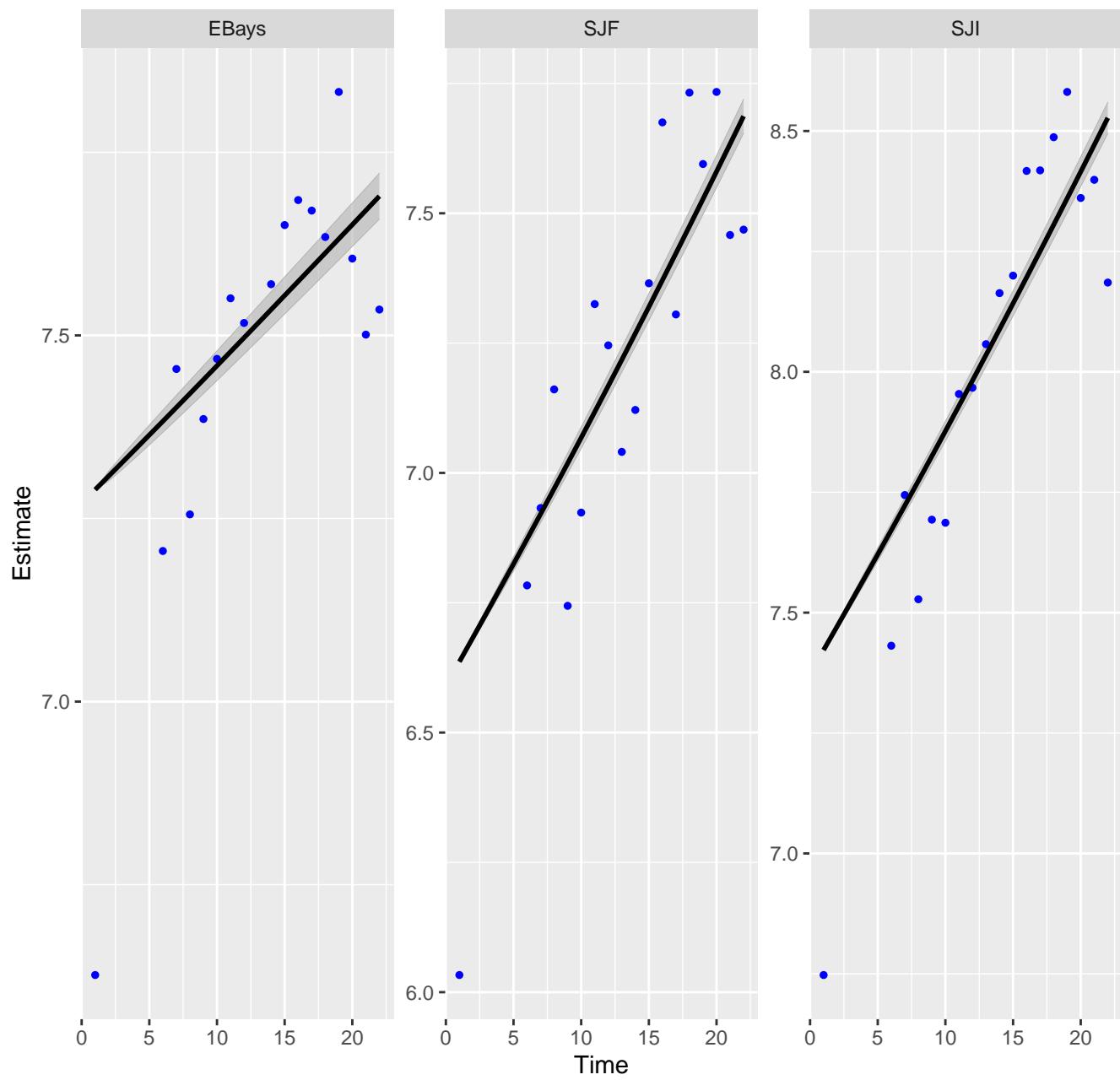
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

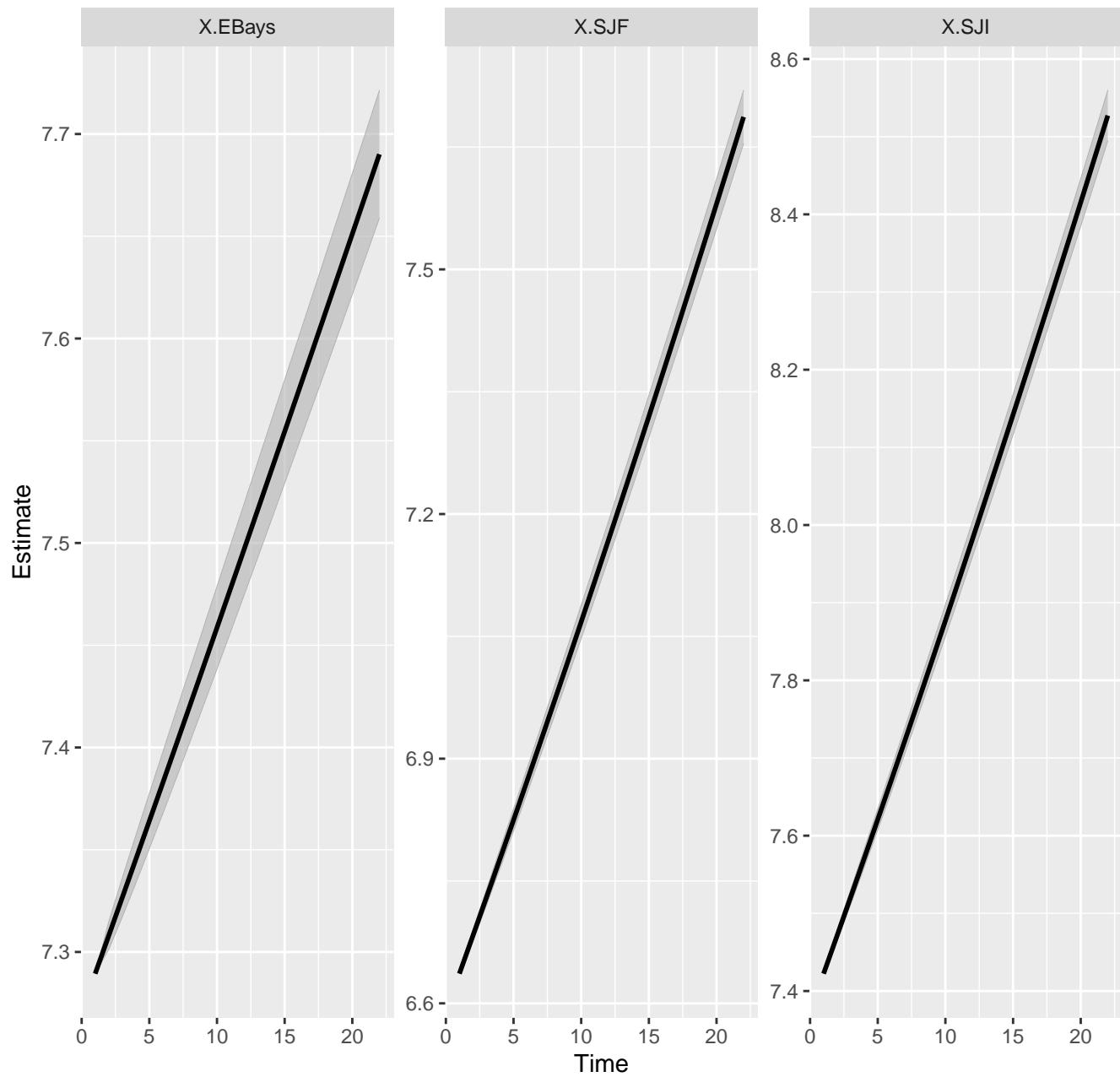
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

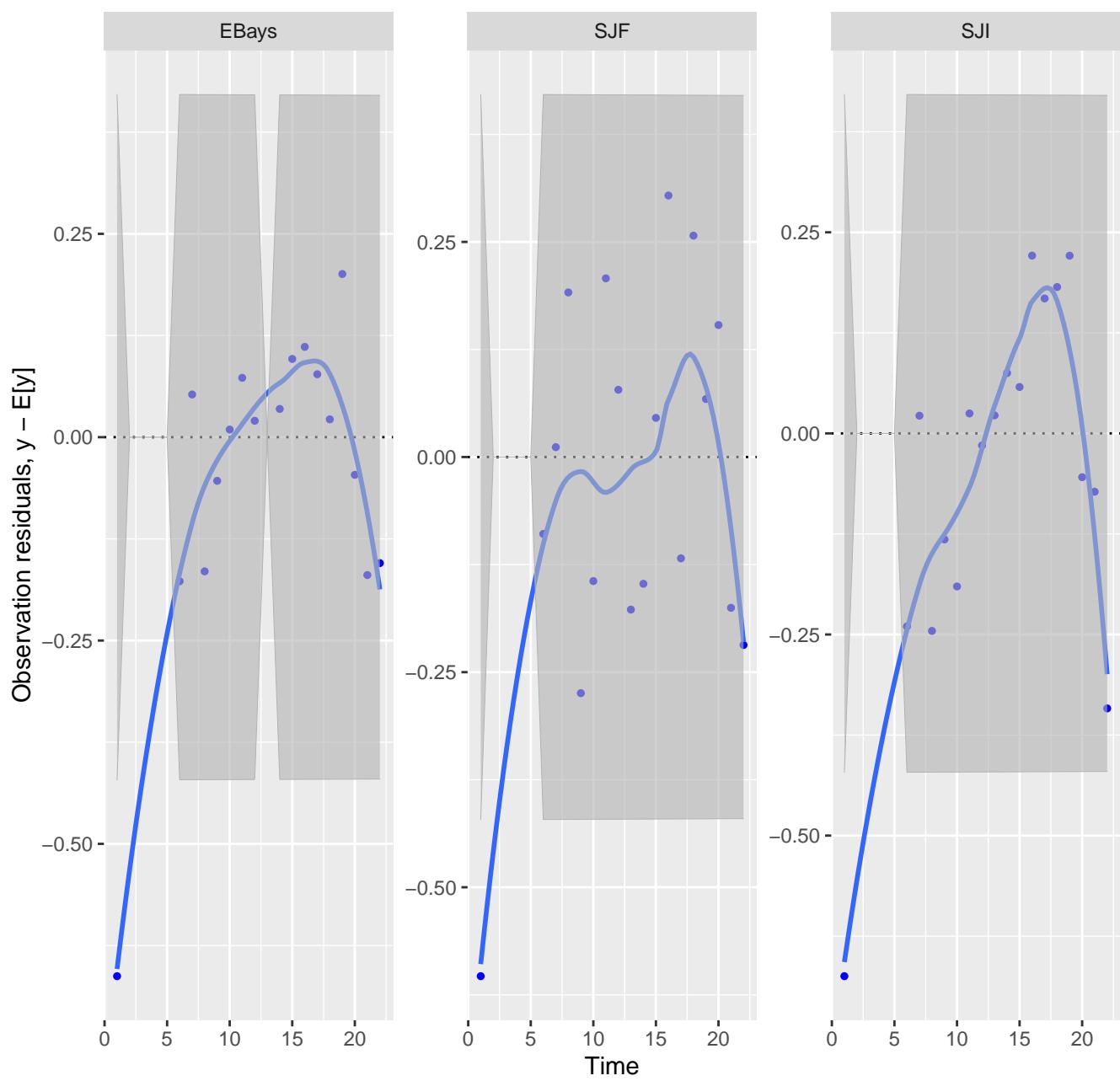
Model fitted Y + CI



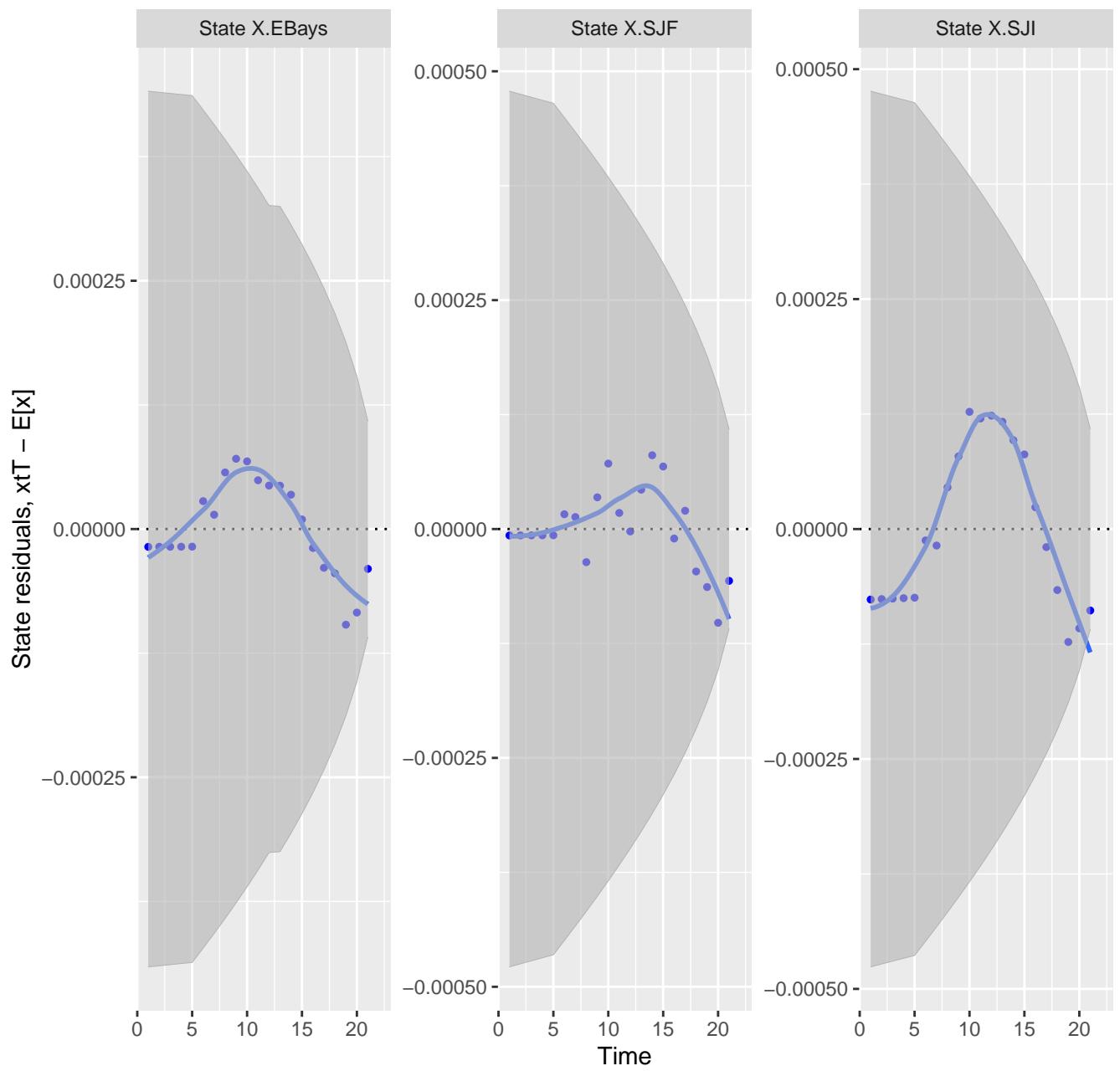
States



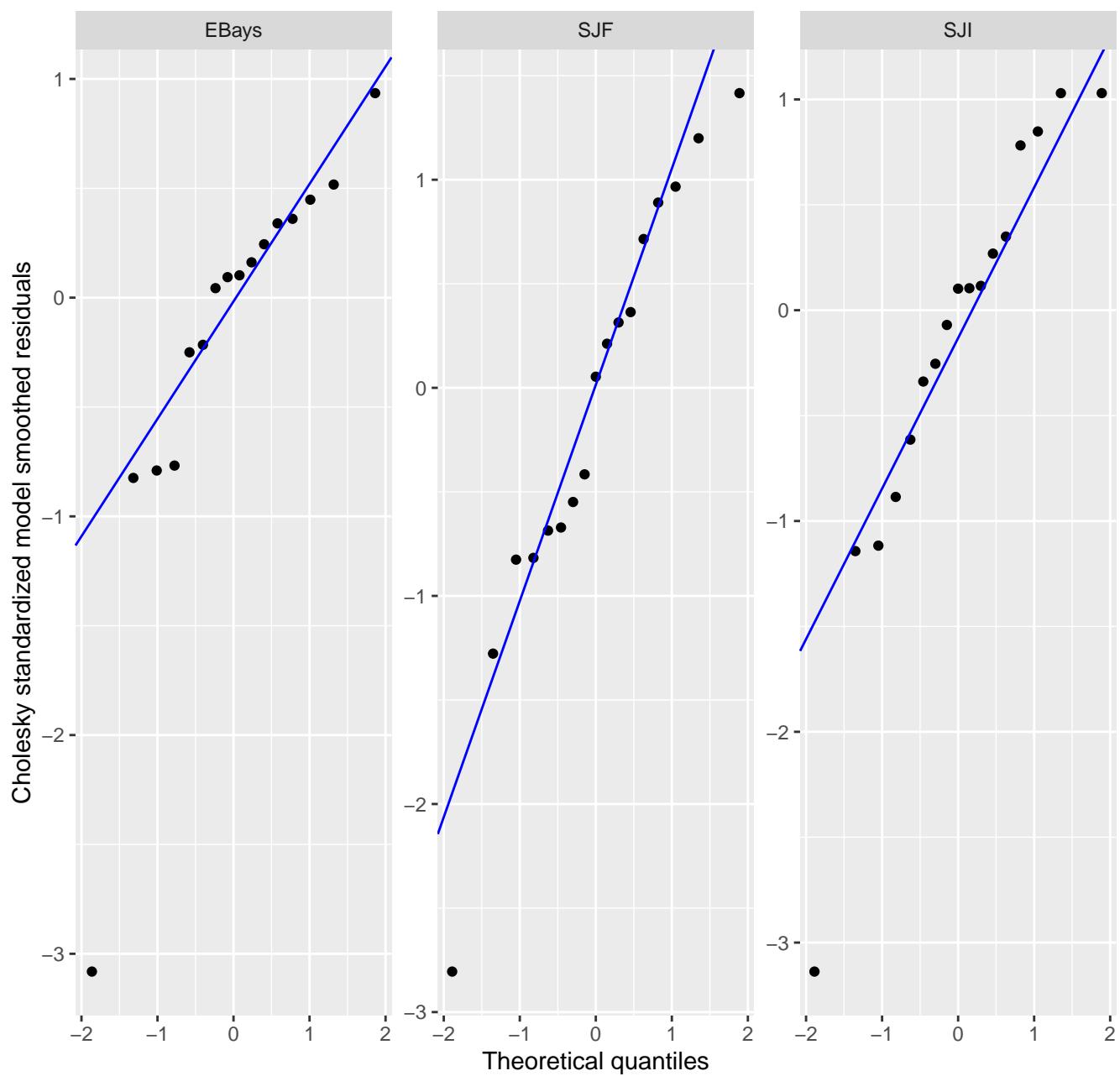
Model residuals



State residuals

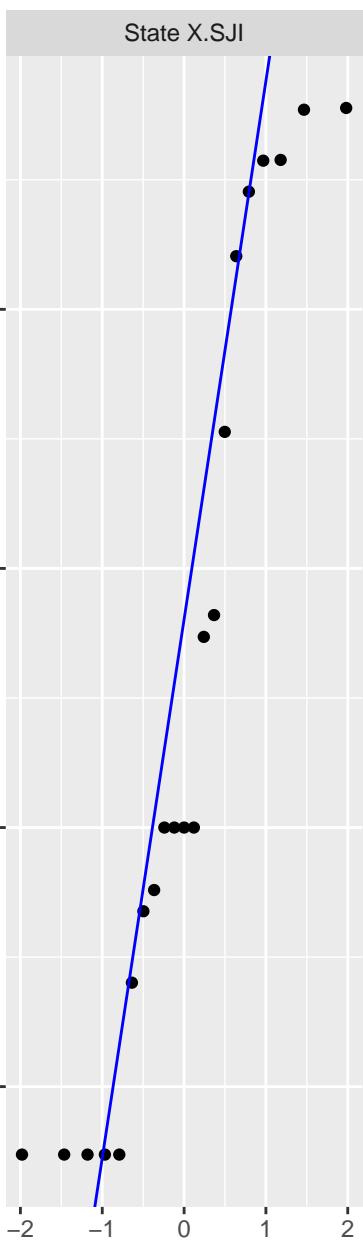
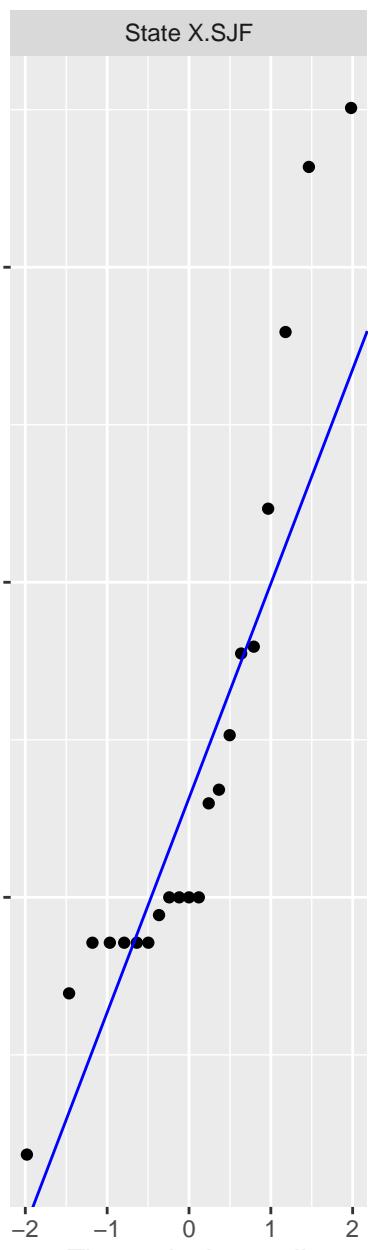
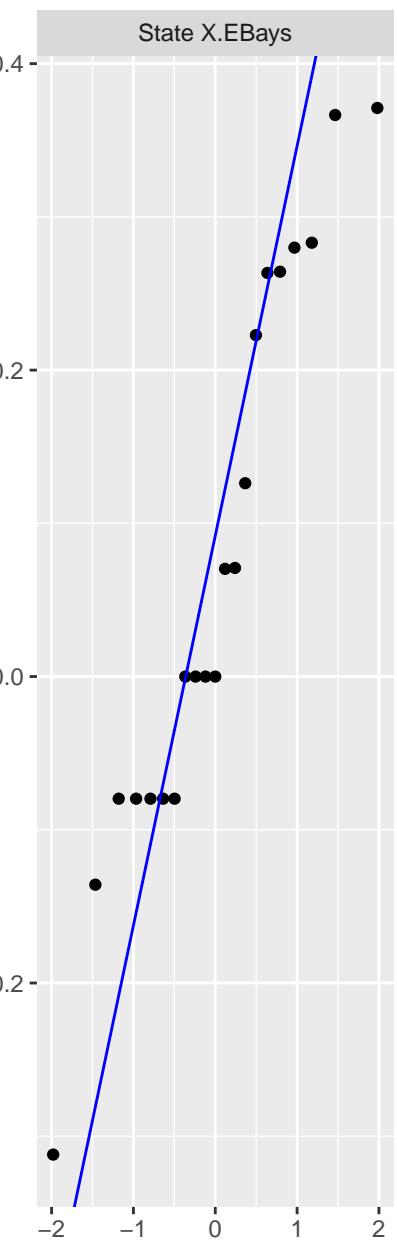


Model residuals normality test



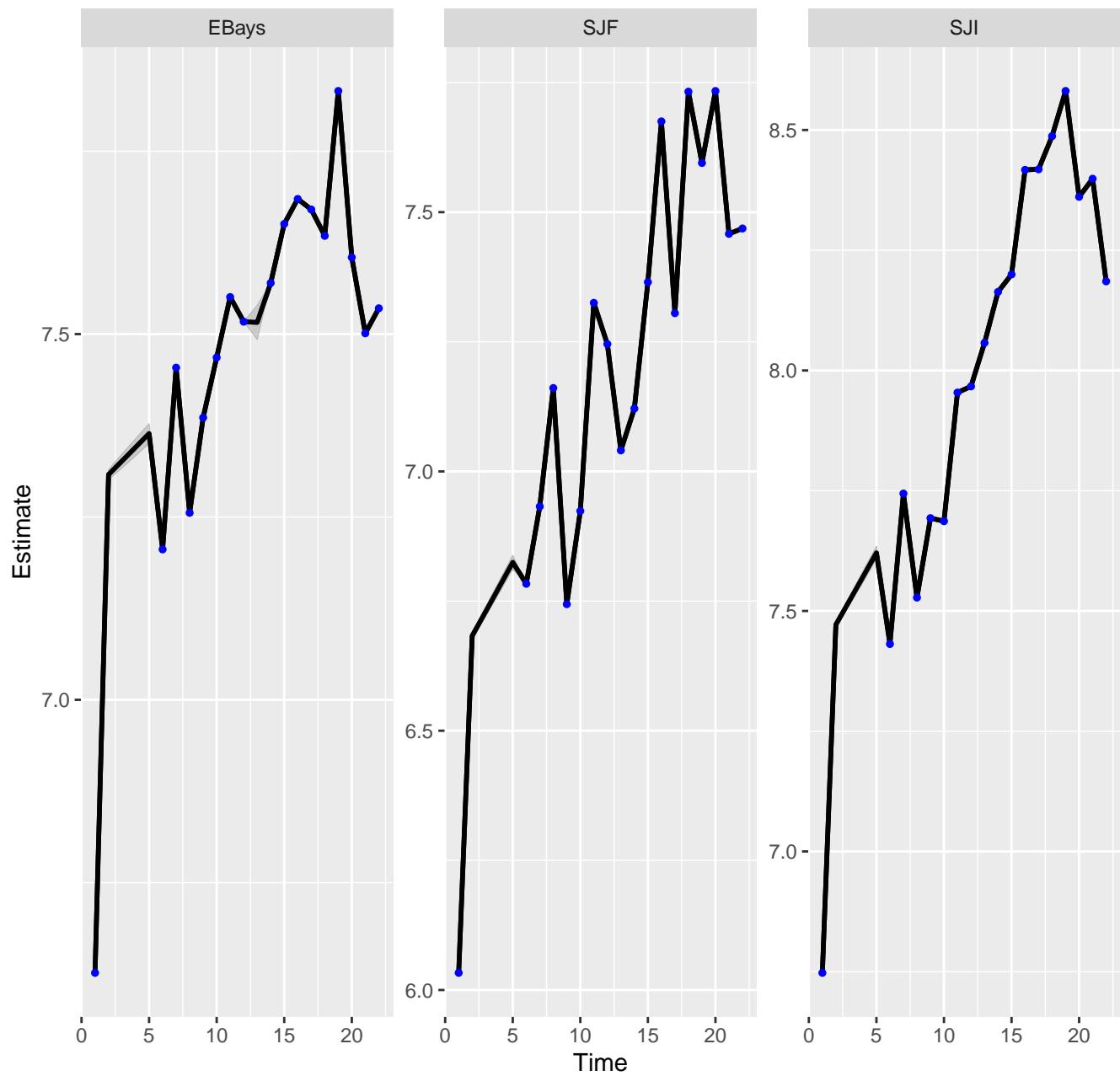
State residuals normality test

Cholesky standardized state smoothed residuals

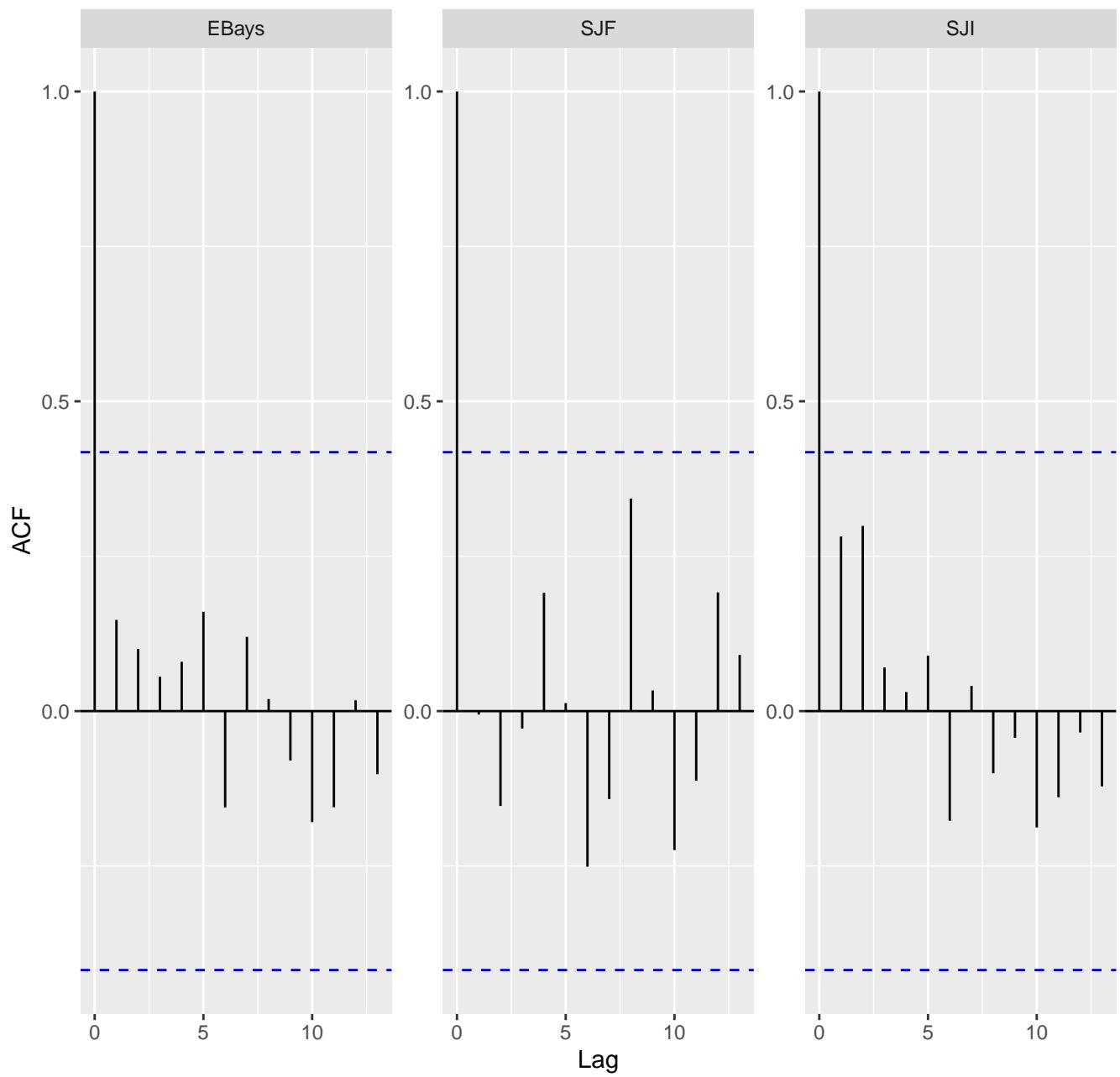


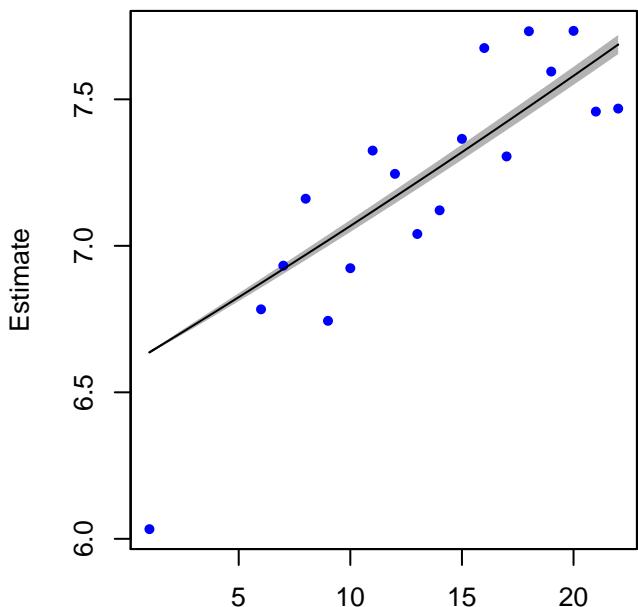
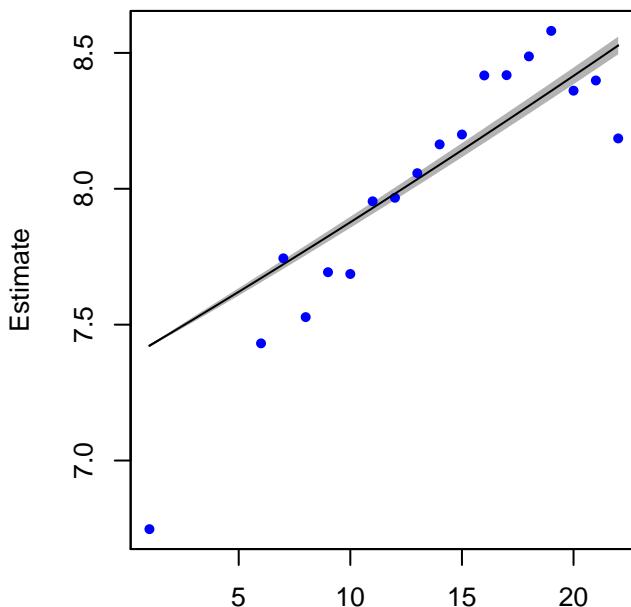
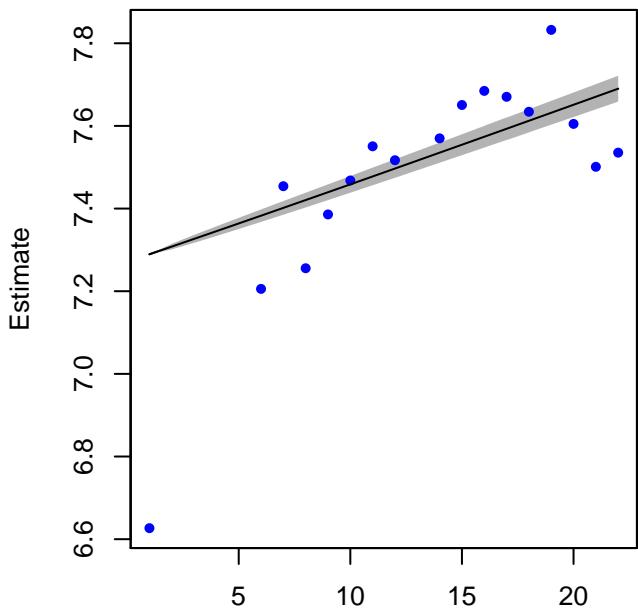
Theoretical quantiles

Expected value of Y conditioned on data

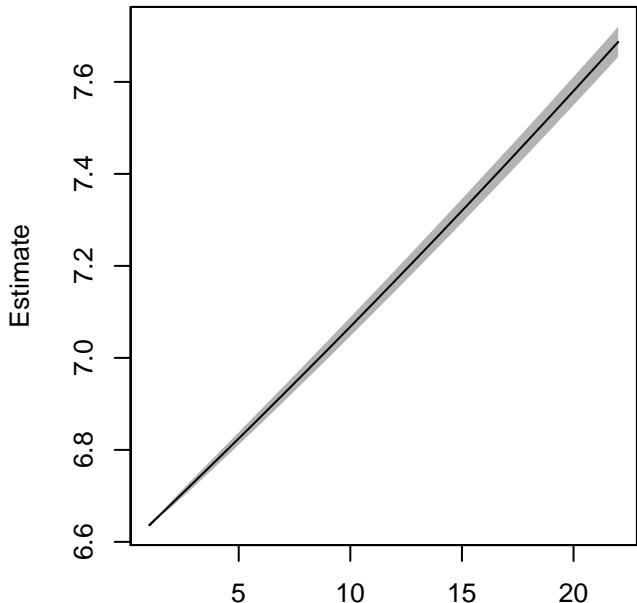


Model innovations residuals ACF

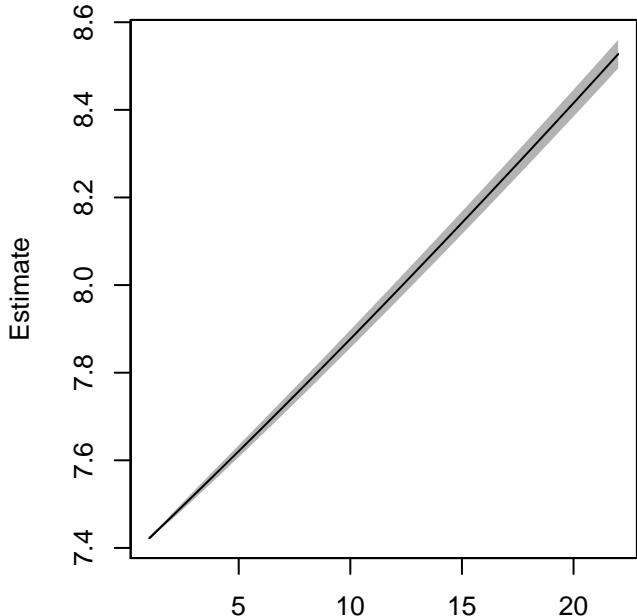


SJF + CI**SJI + CI****EBays + CI**

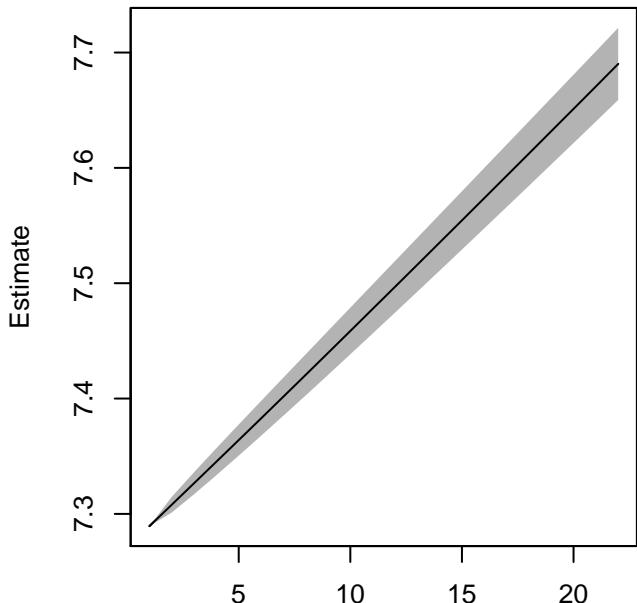
State X.SJF

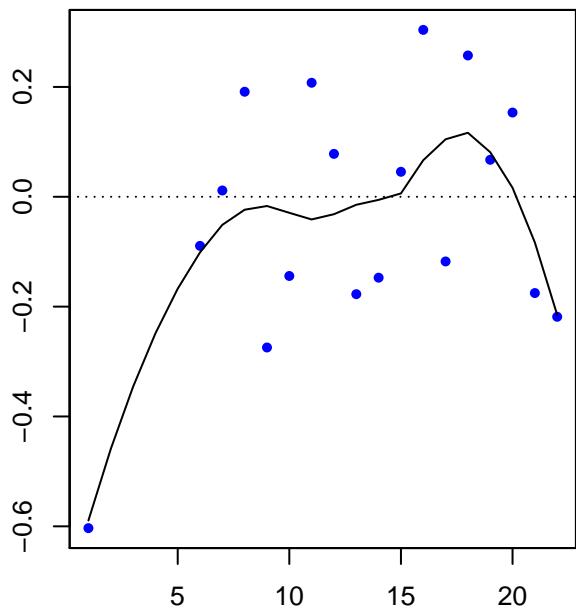
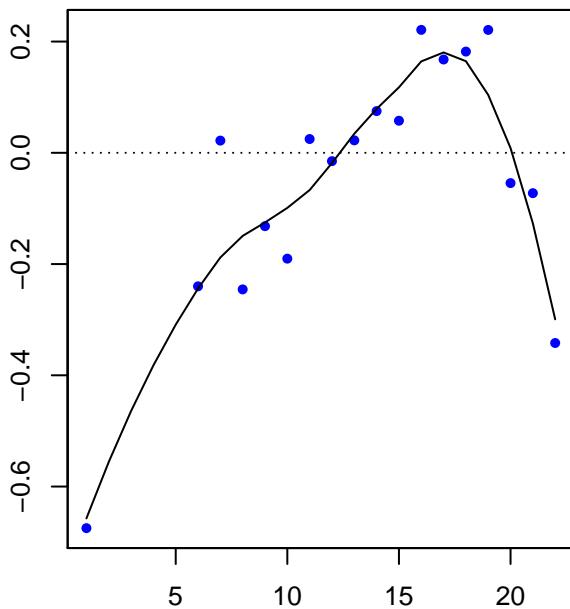
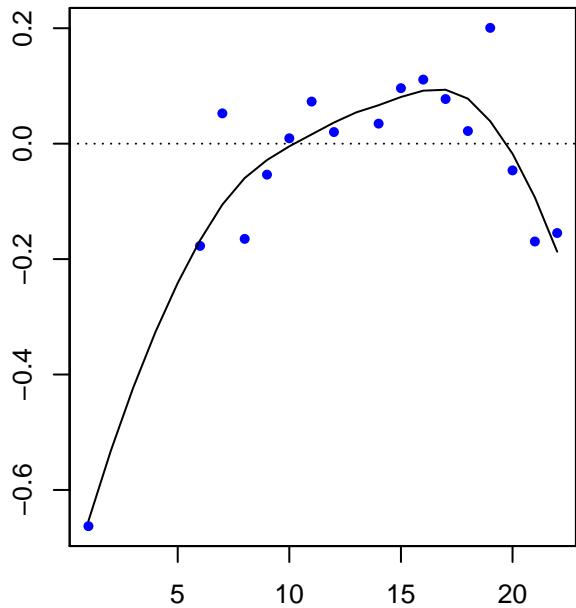


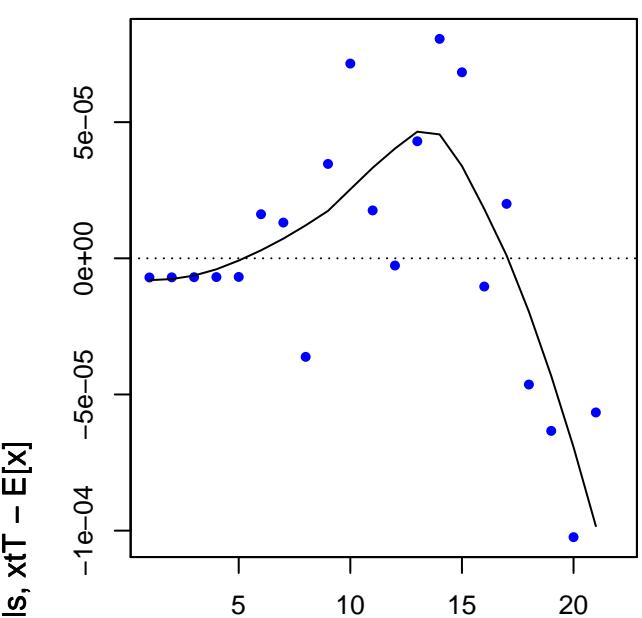
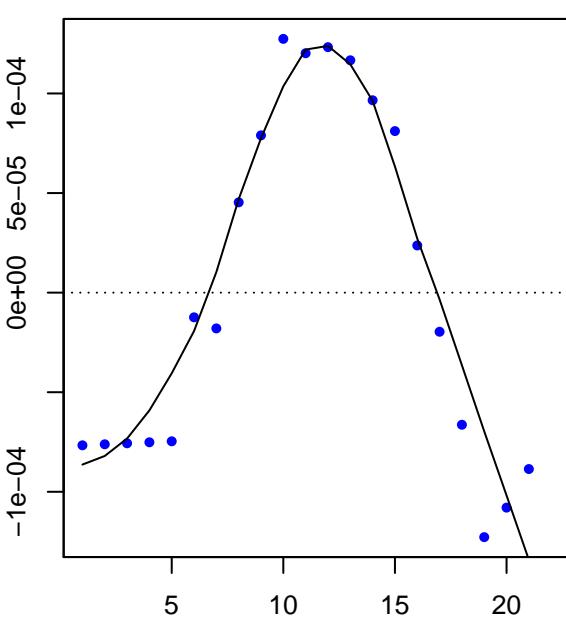
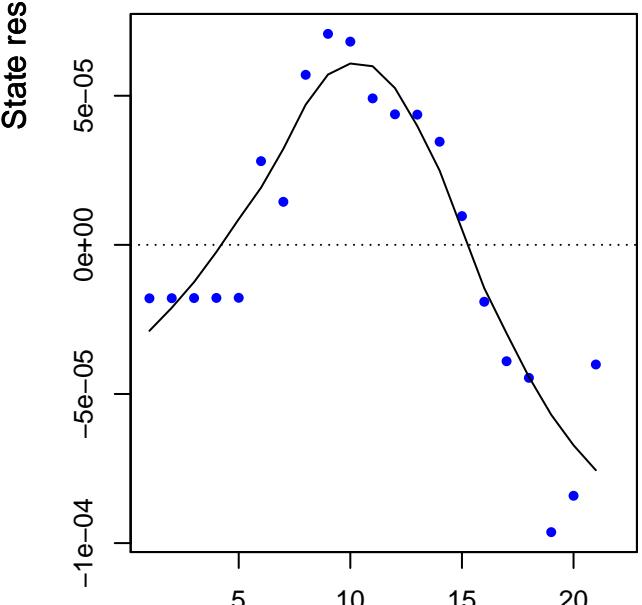
State X.SJI

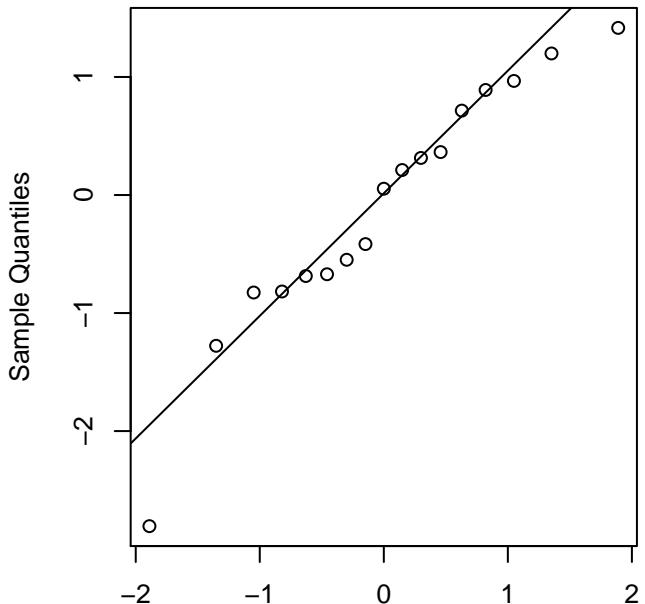
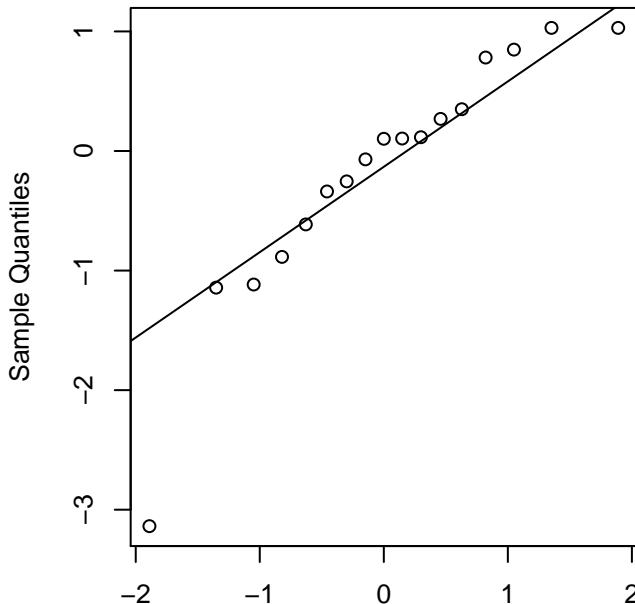
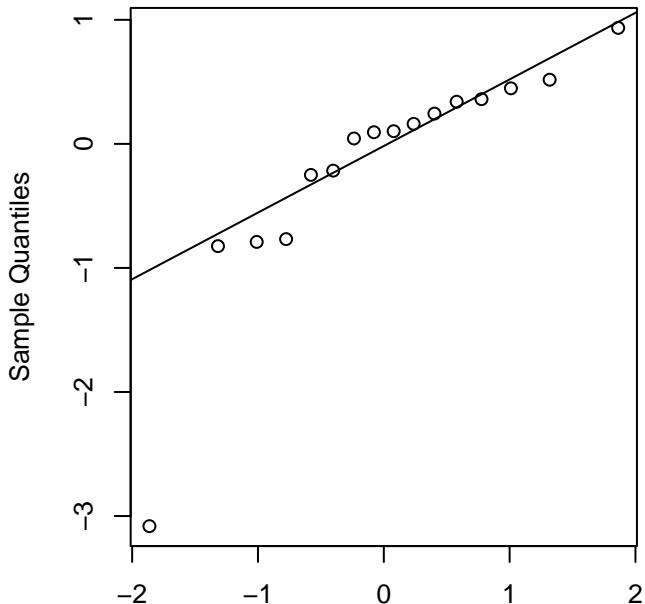


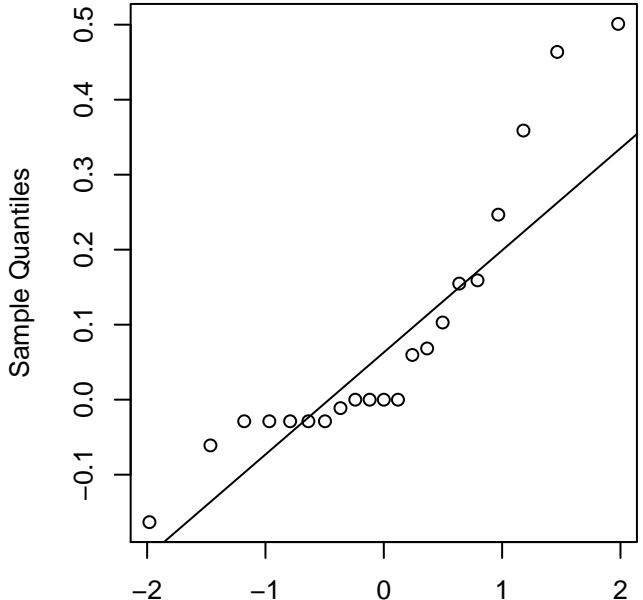
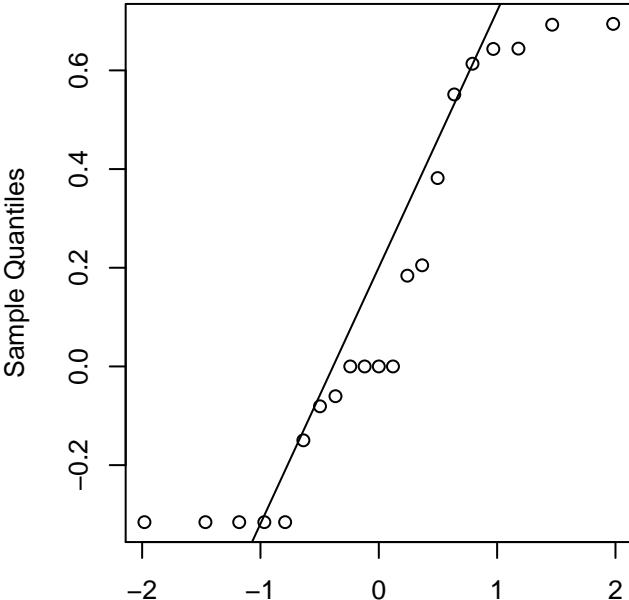
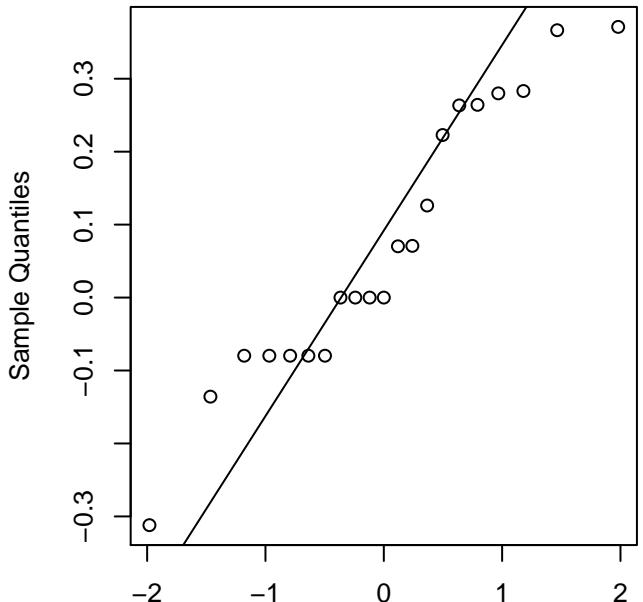
State X.EBays

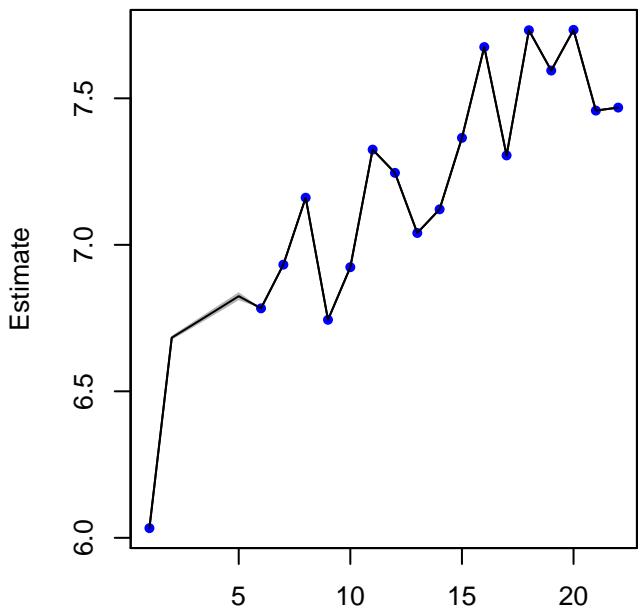
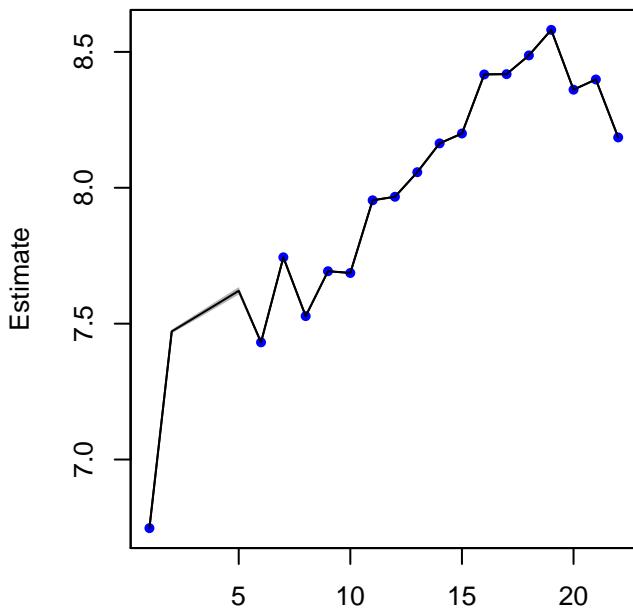
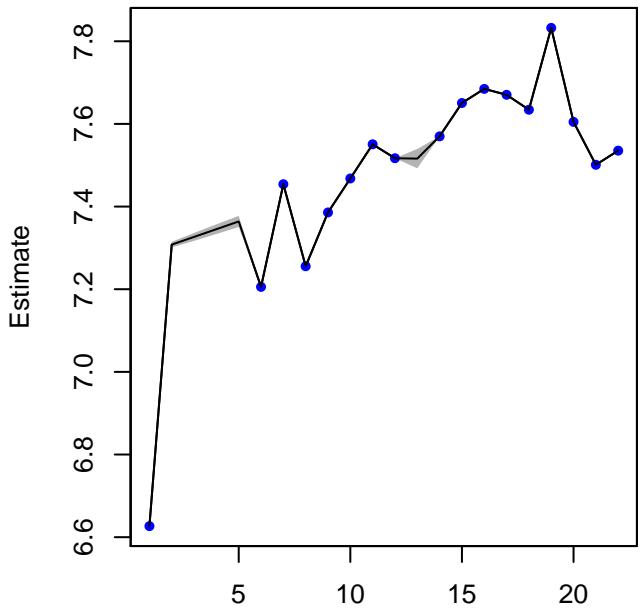


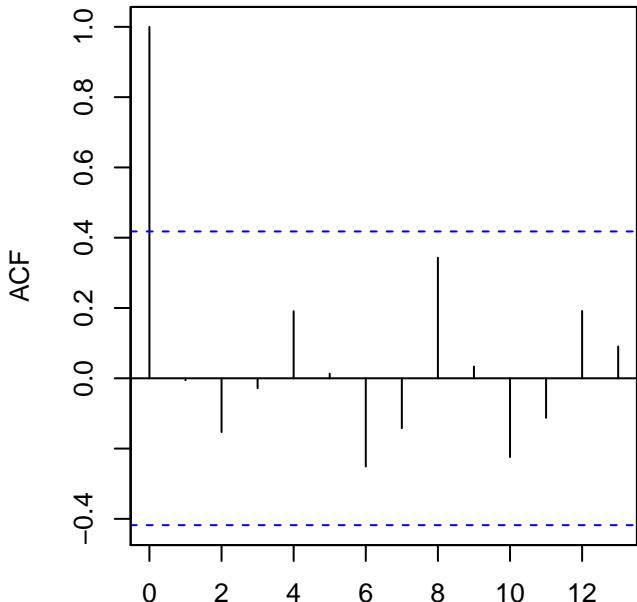
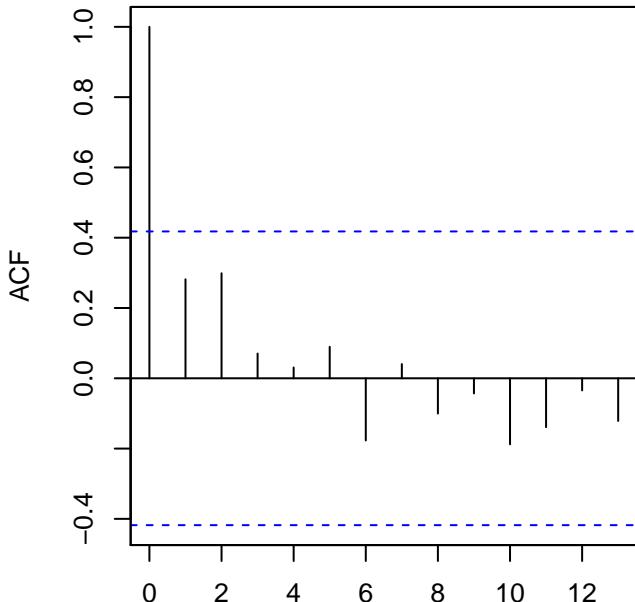
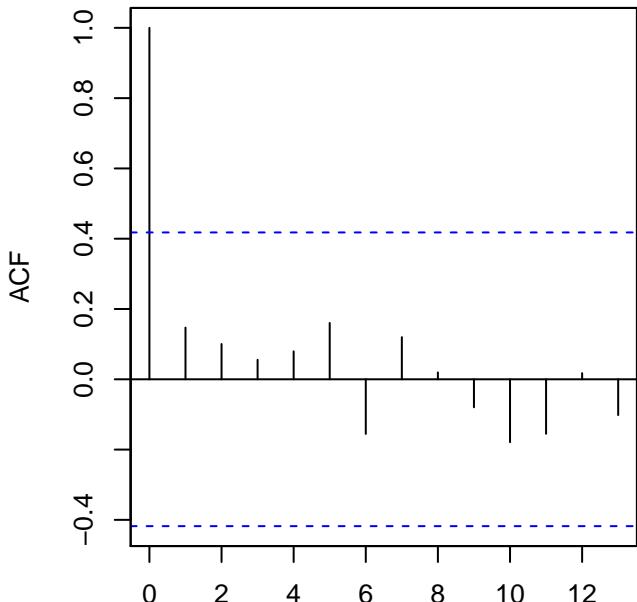
SJFObservation residuals, $y - E[y]$ **SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

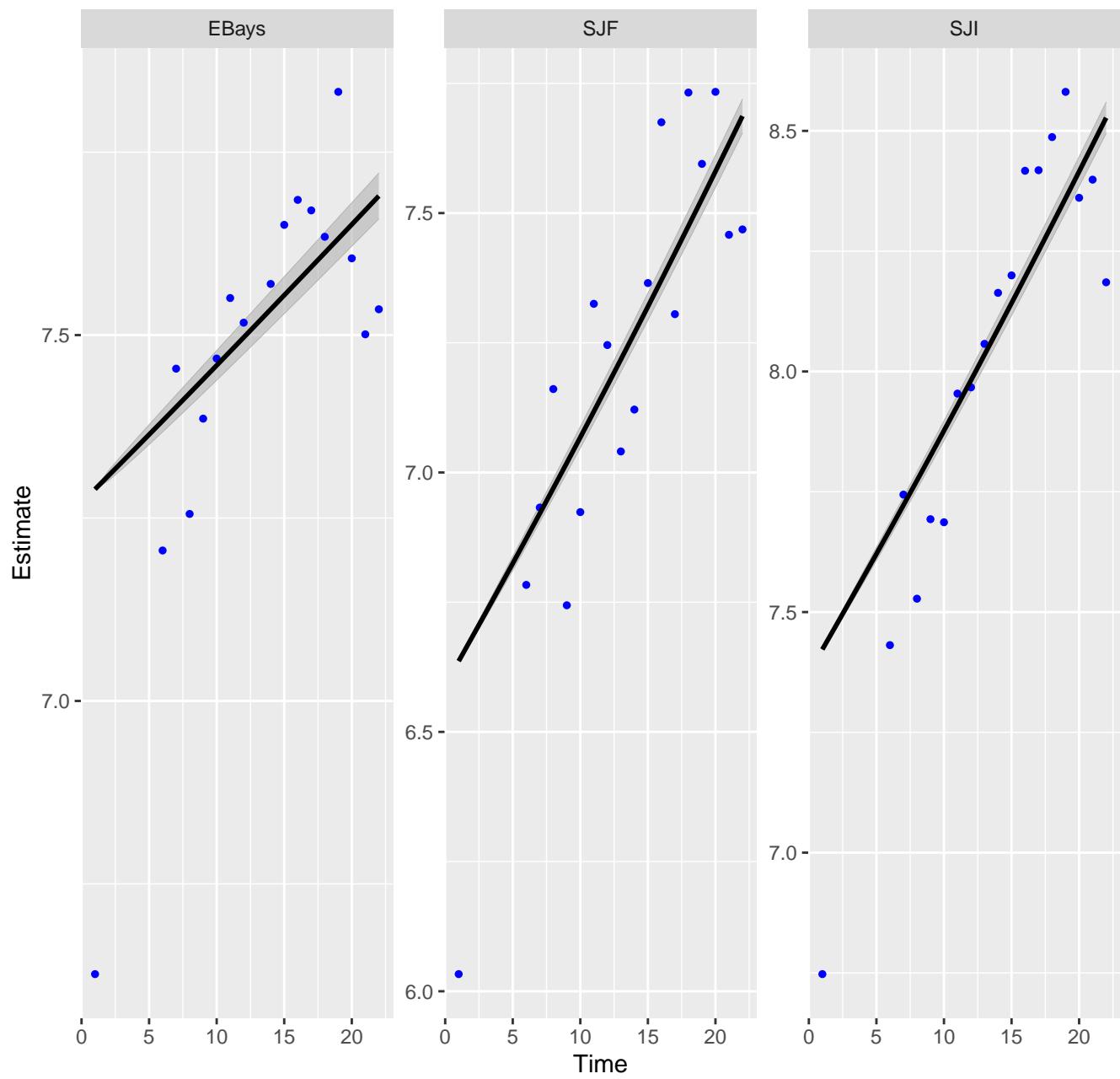
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

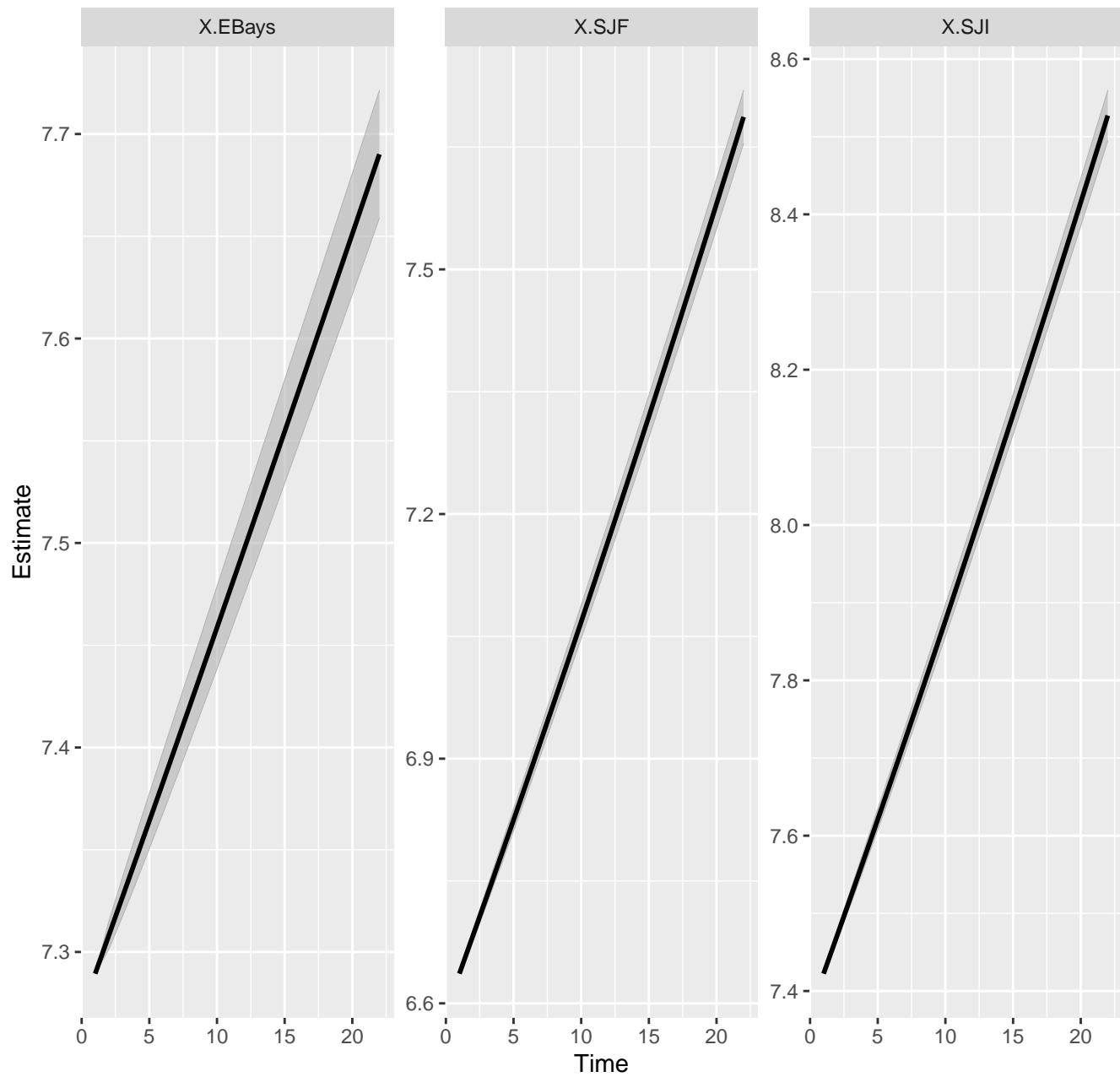
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

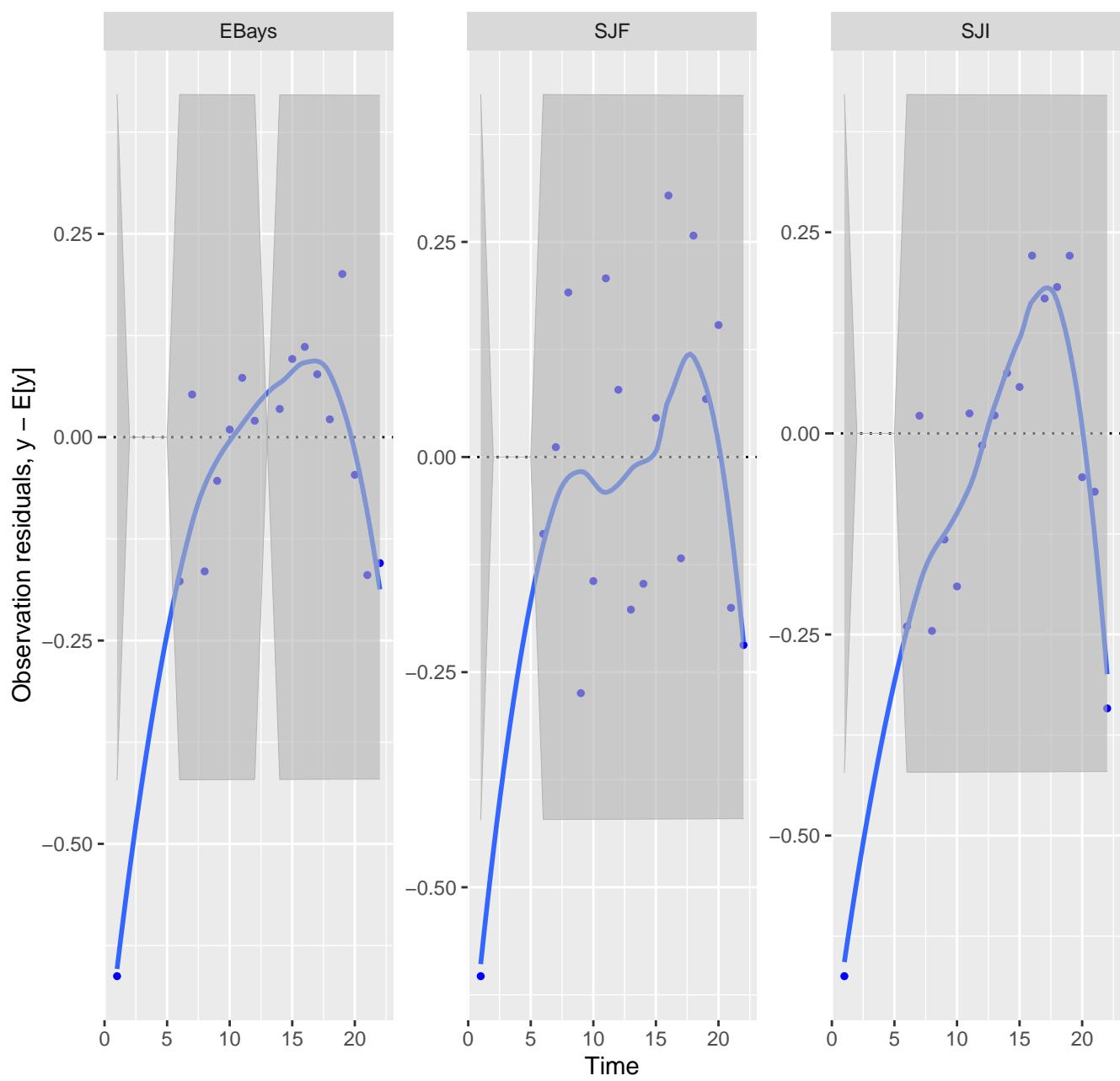
Model fitted Y + CI



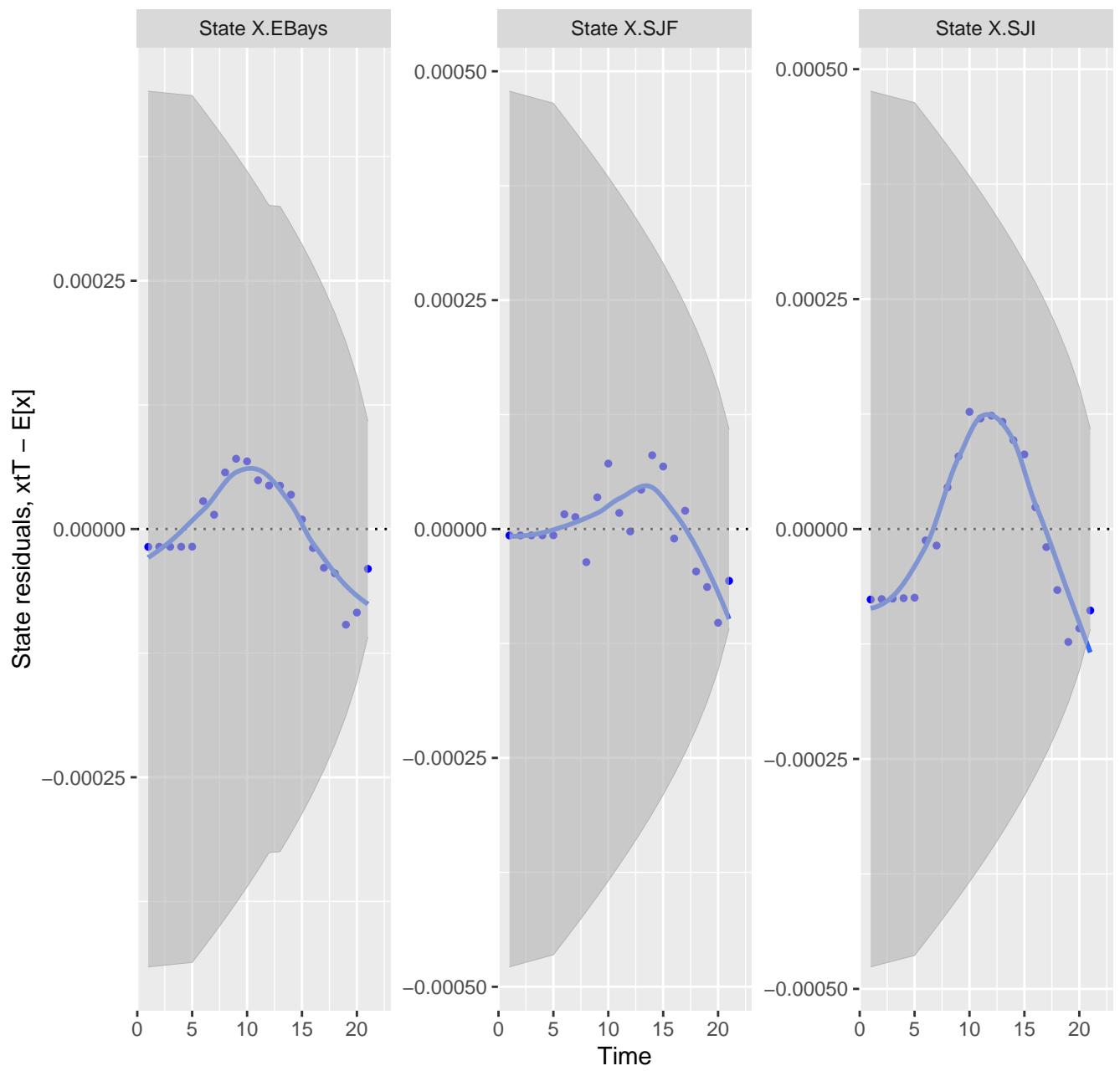
States



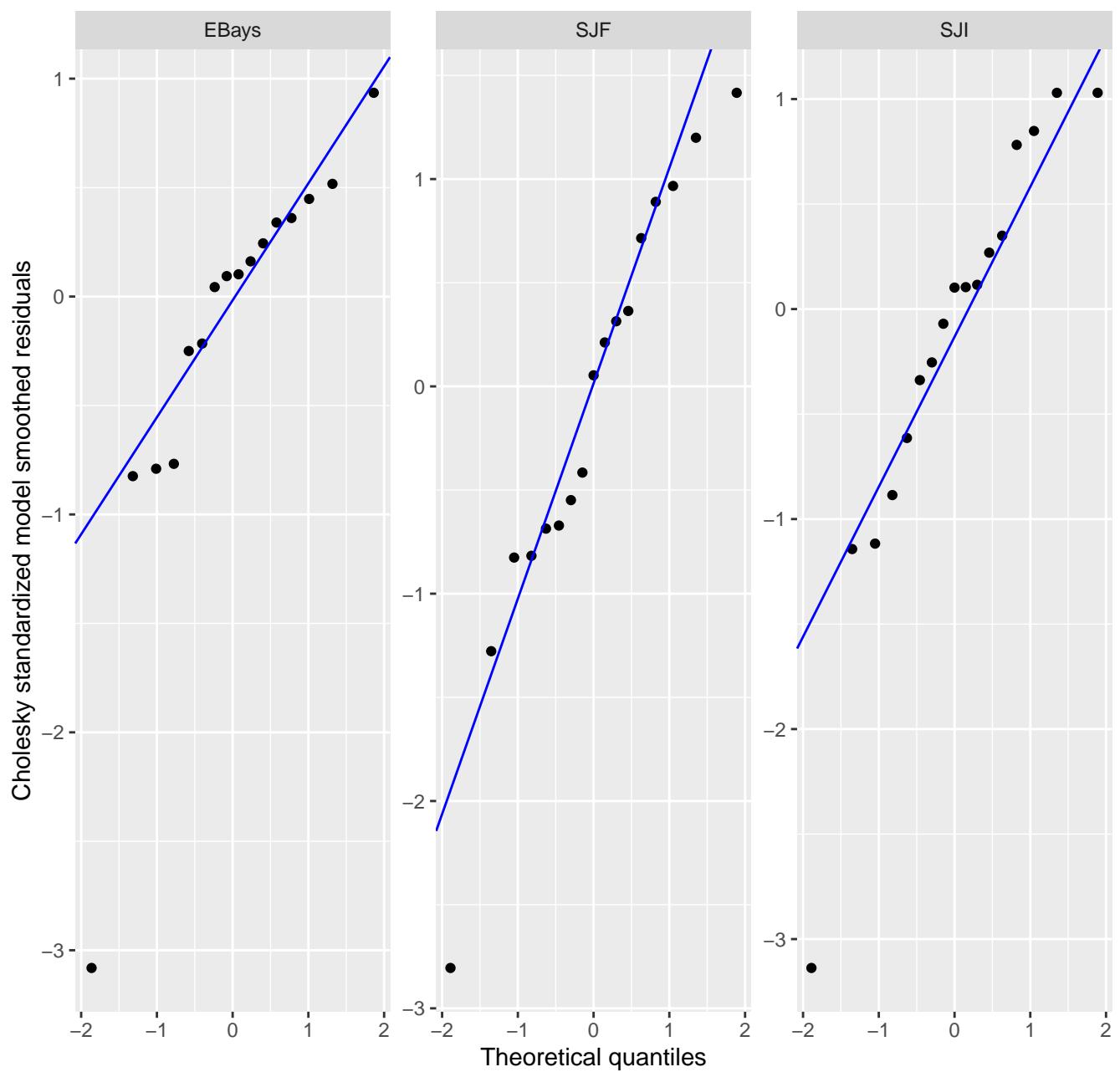
Model residuals



State residuals

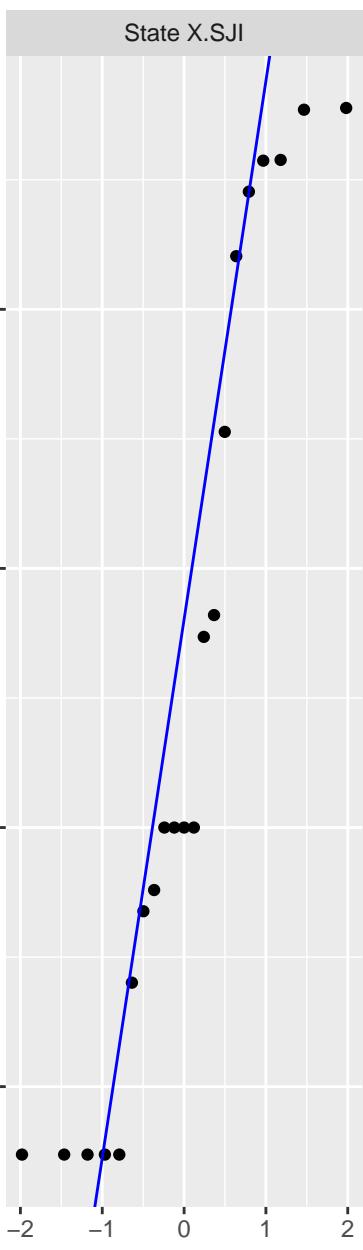
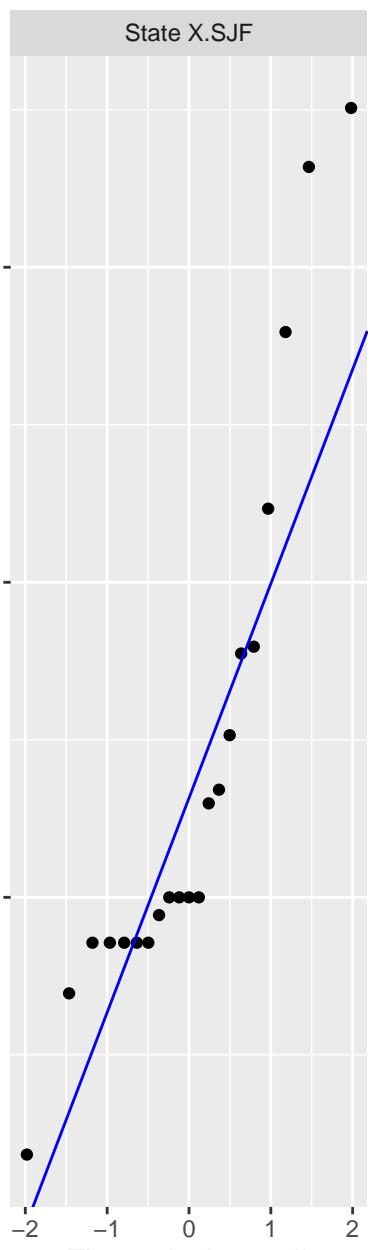
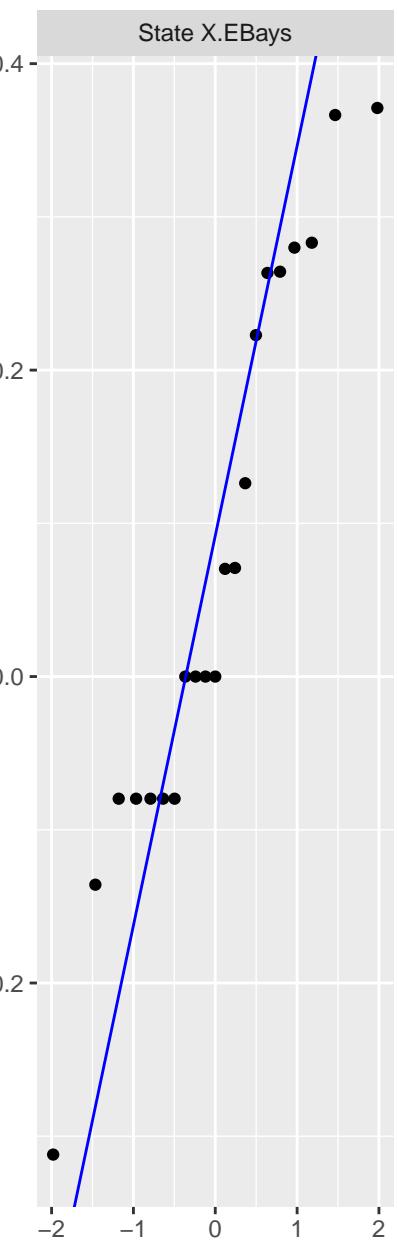


Model residuals normality test



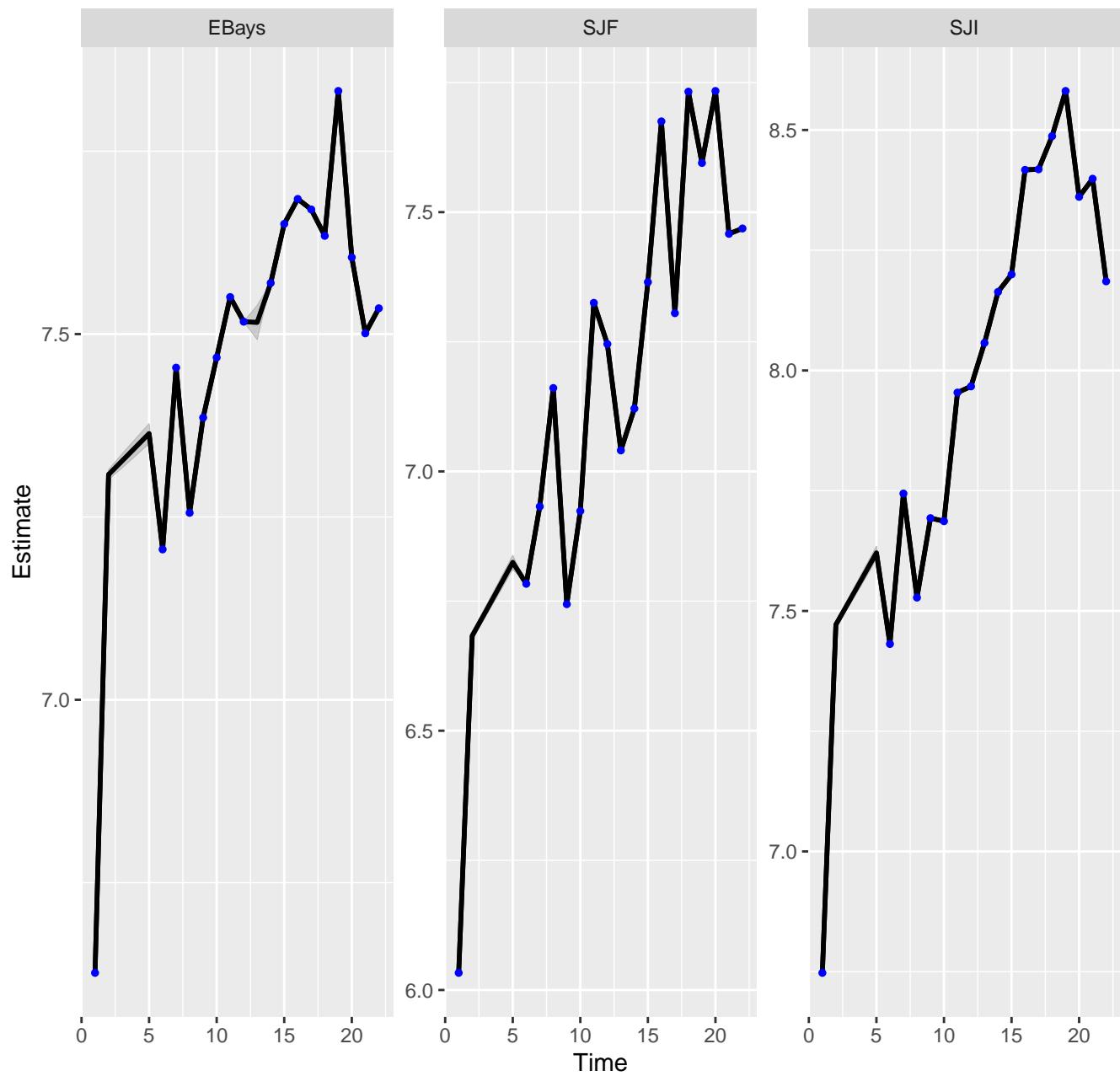
State residuals normality test

Cholesky standardized state smoothed residuals

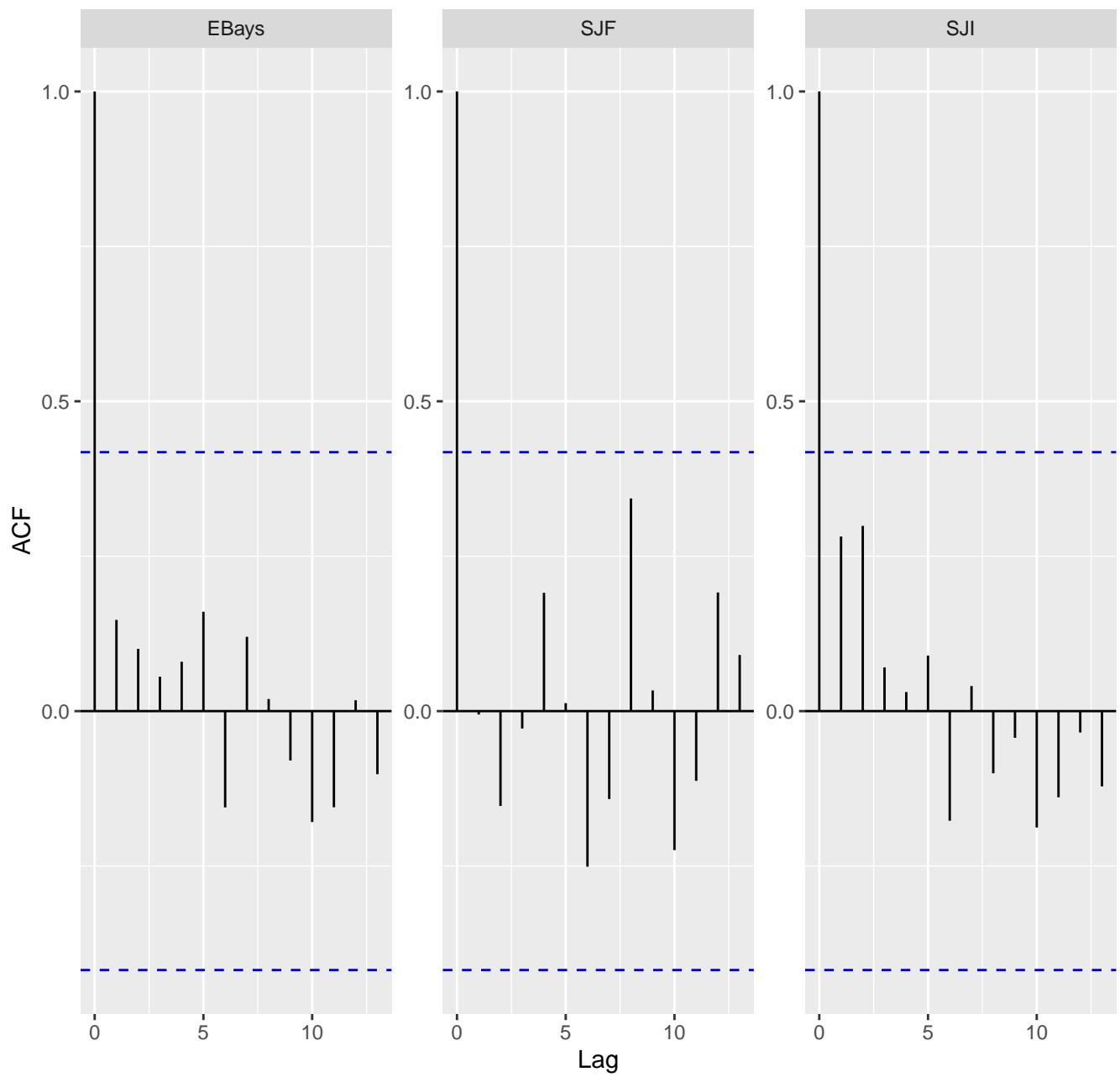


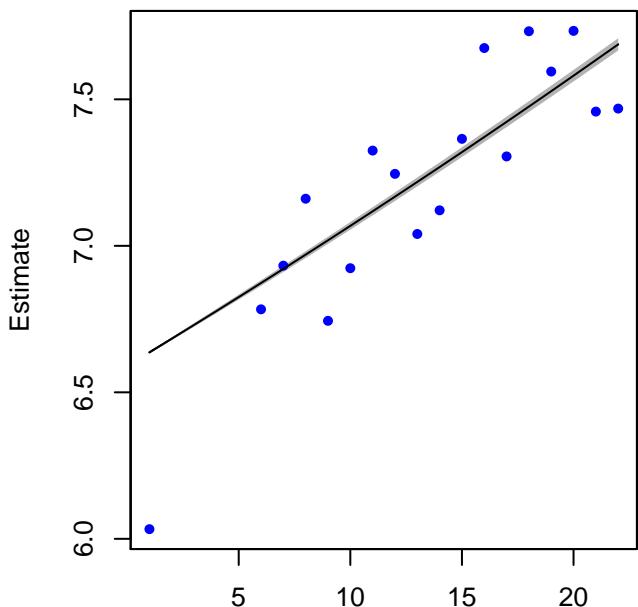
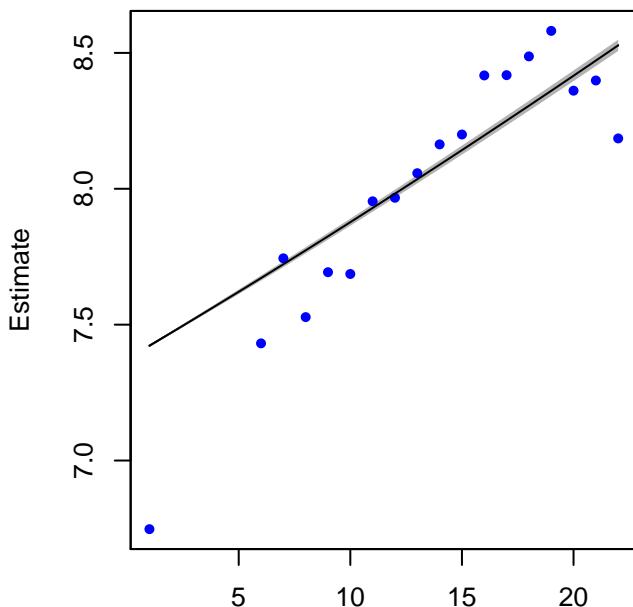
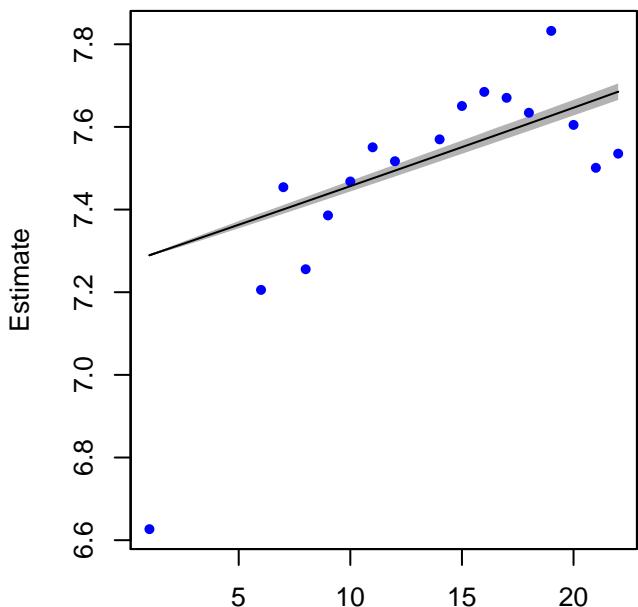
Theoretical quantiles

Expected value of Y conditioned on data

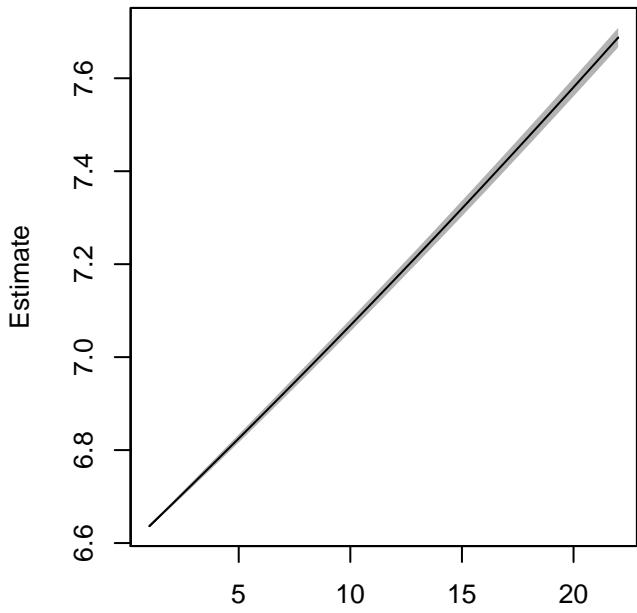


Model innovations residuals ACF

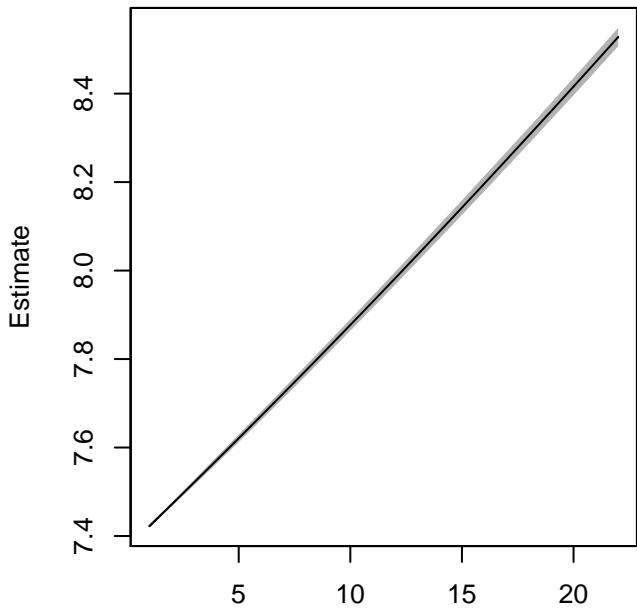


SJF + CI**SJI + CI****EBays + CI**

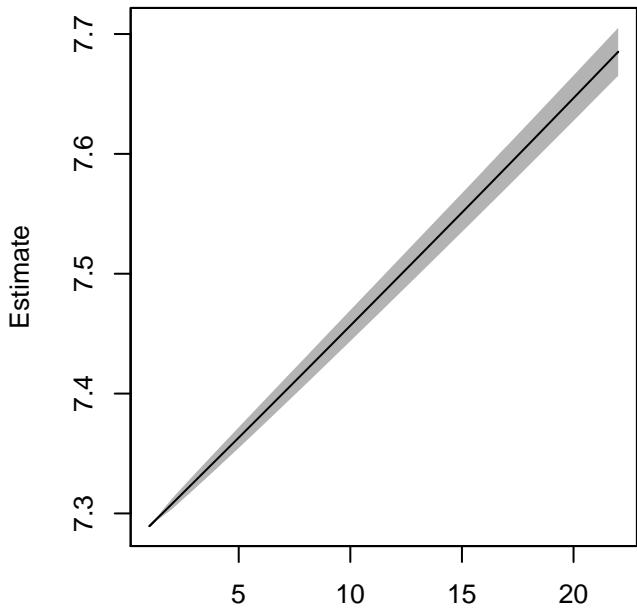
State X.SJF

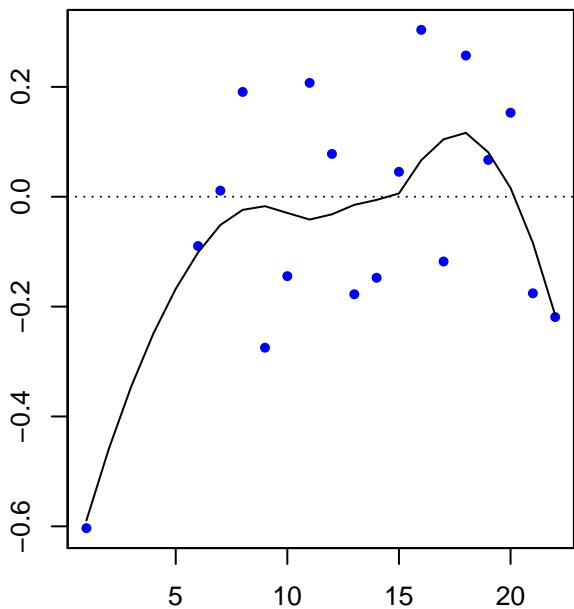
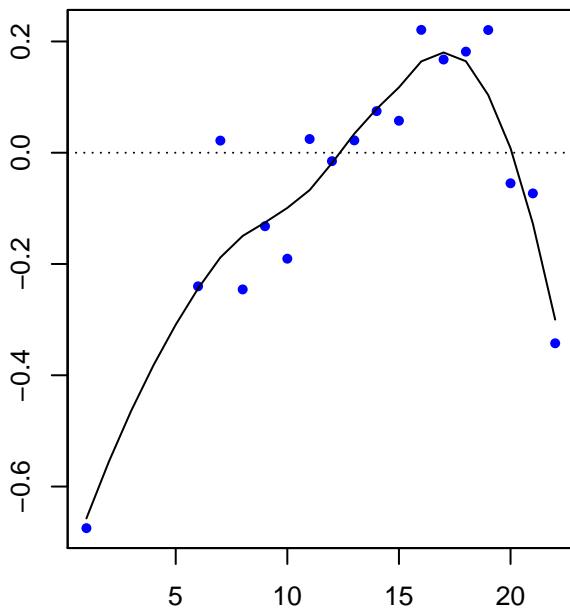
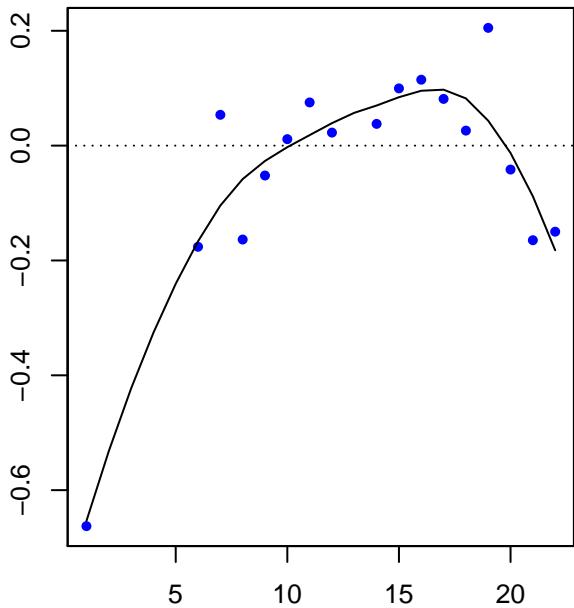


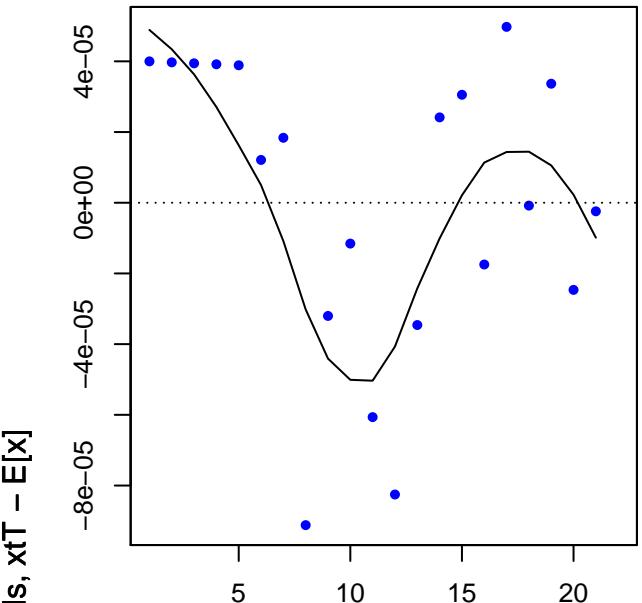
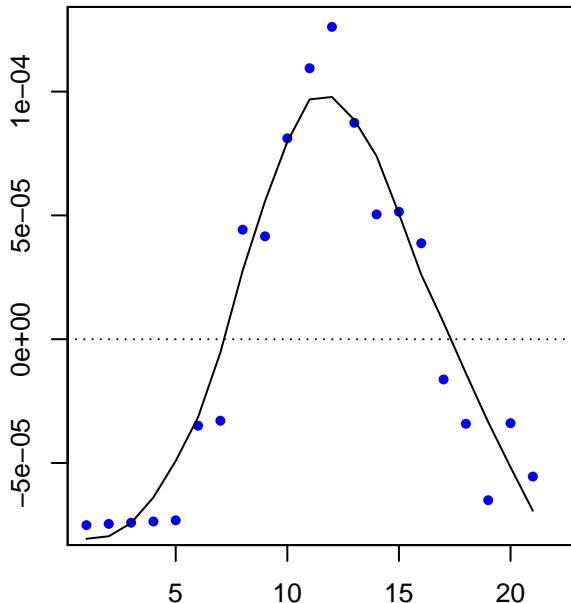
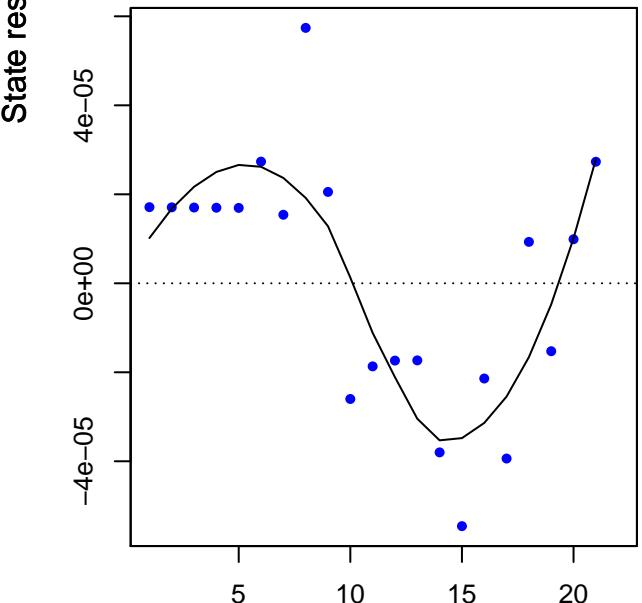
State X.SJI

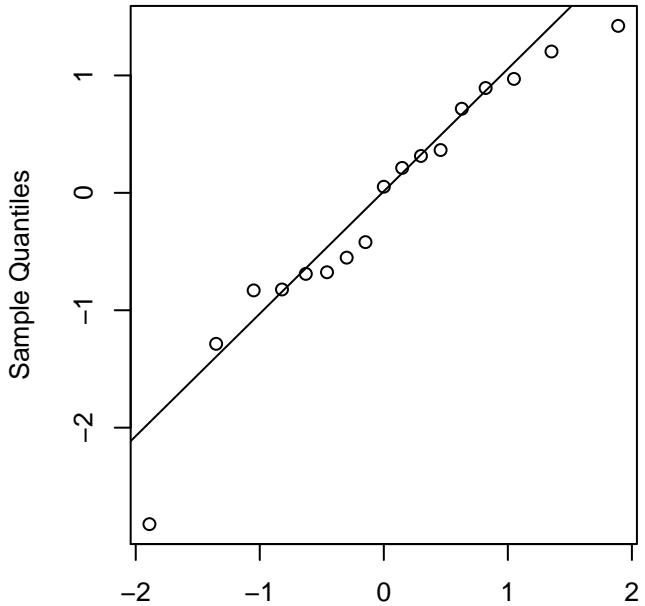
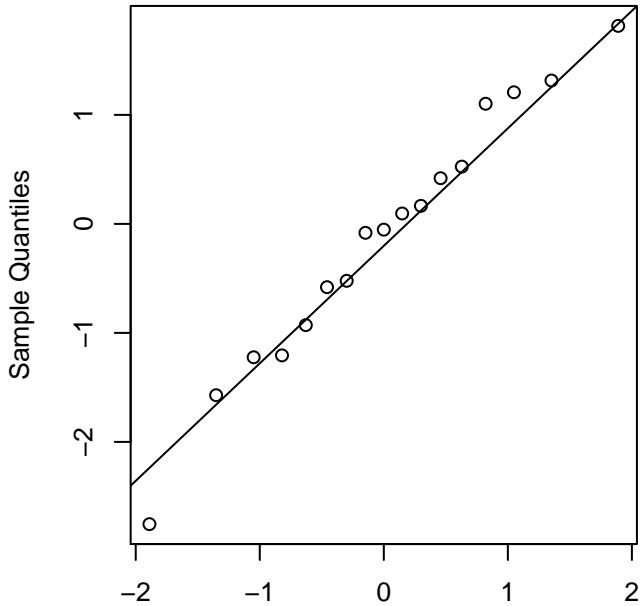
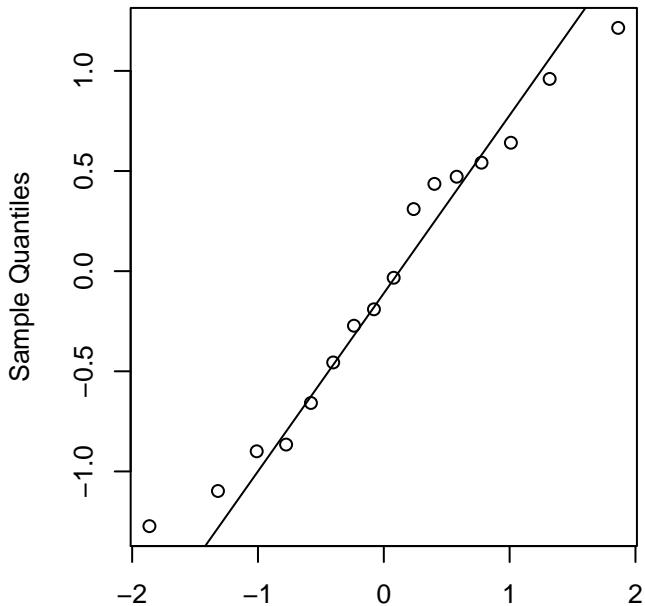


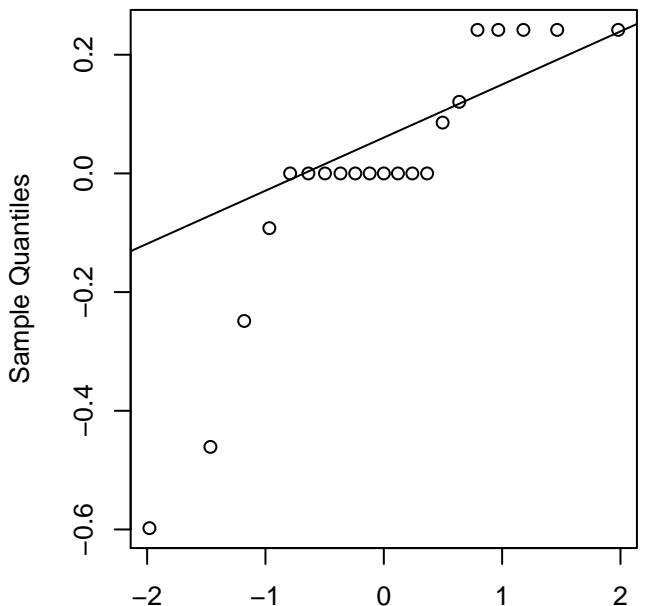
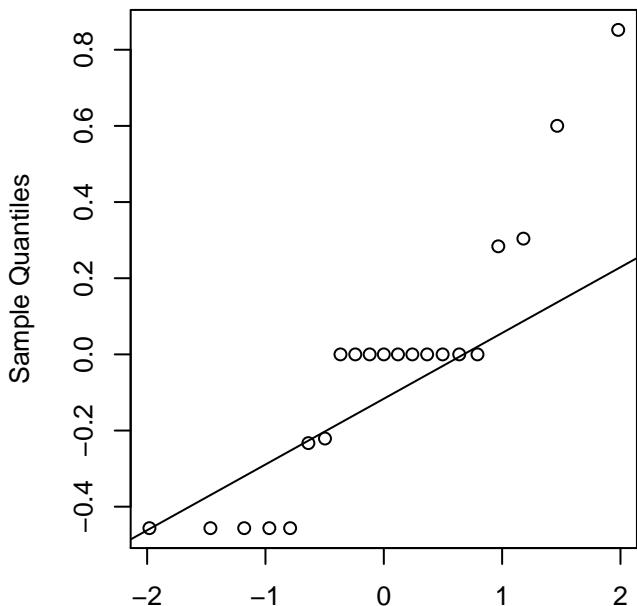
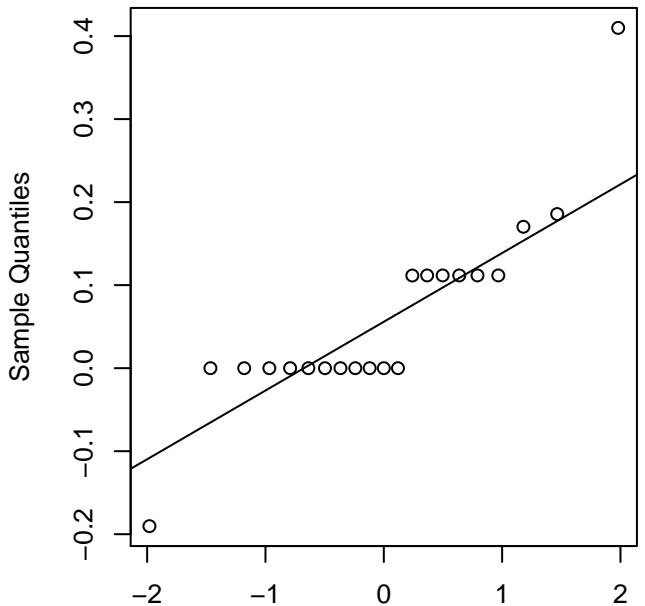
State X.EBays

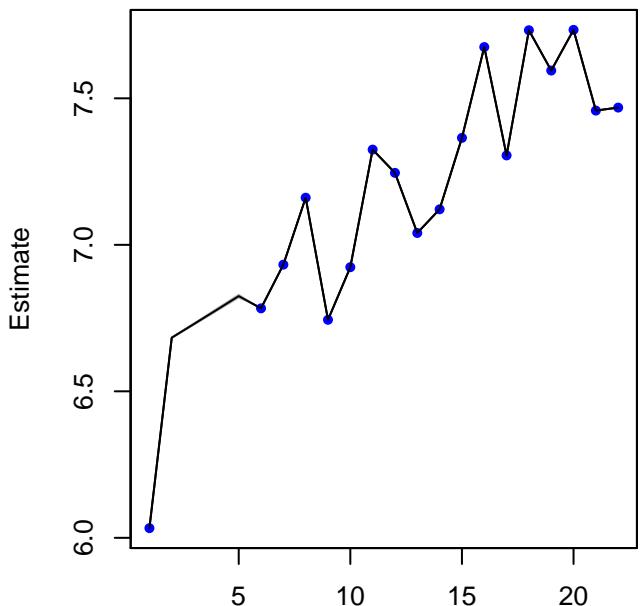
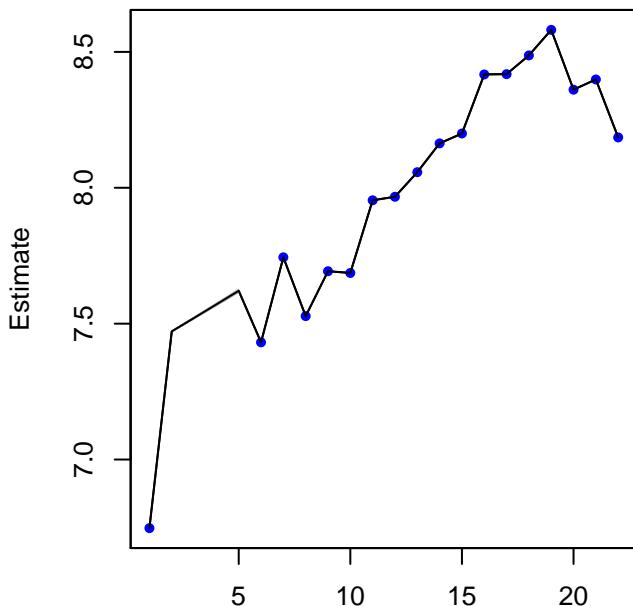
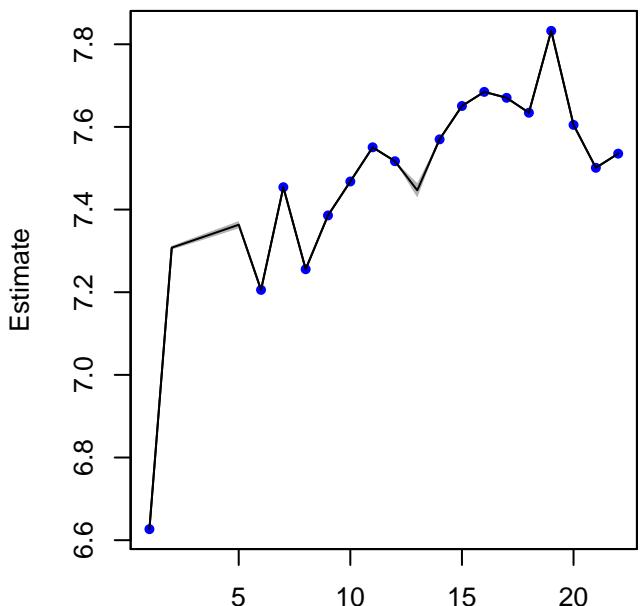


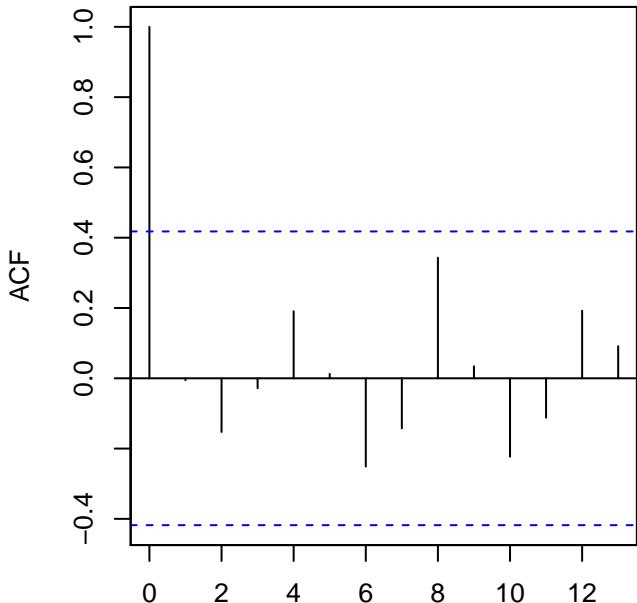
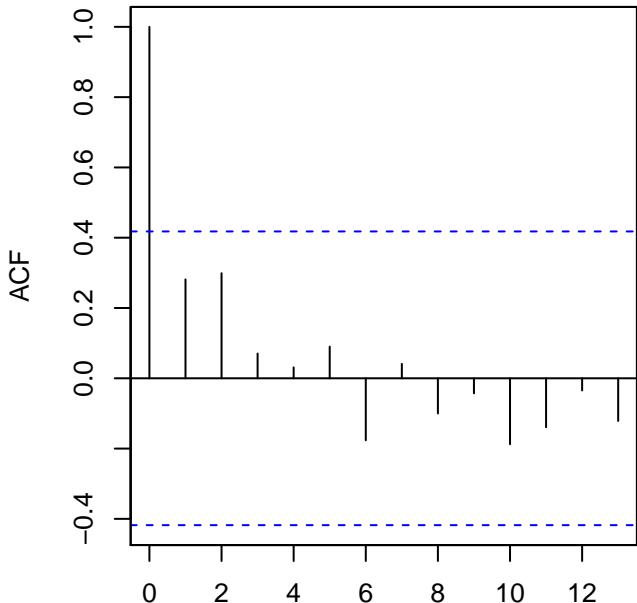
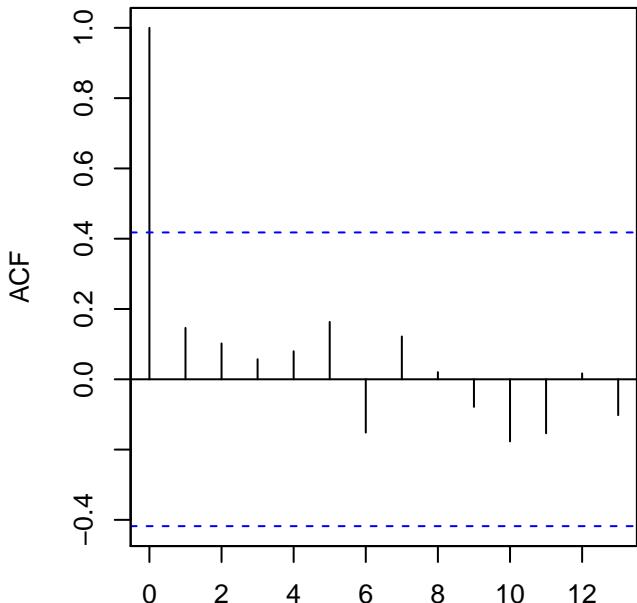
SJFObservation residuals, $y - E[y]$ **SJI****EBays**Observation residuals, $y - E[y]$ 

State X.SJF**State X.SJI****State X.EBays**

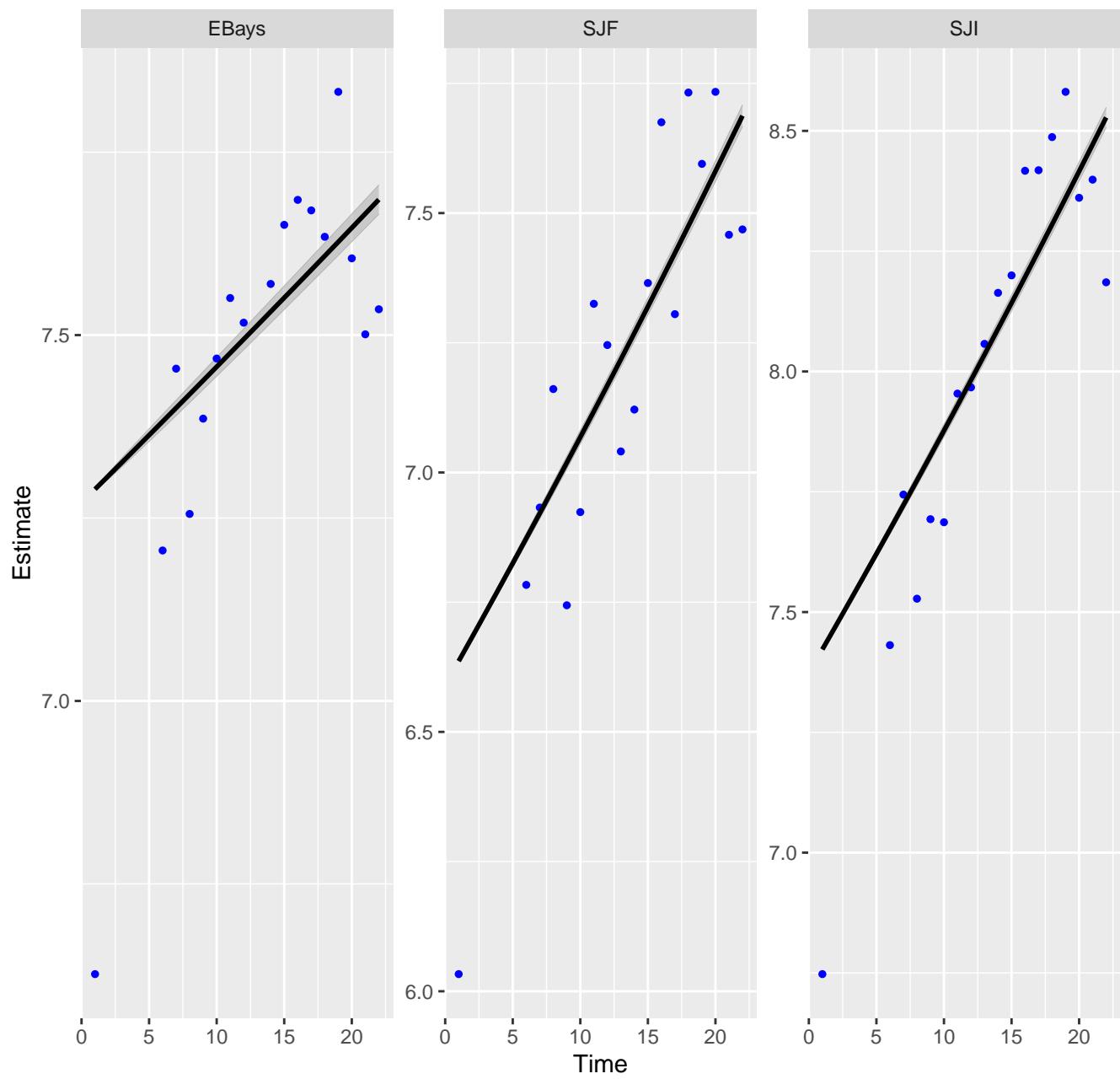
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

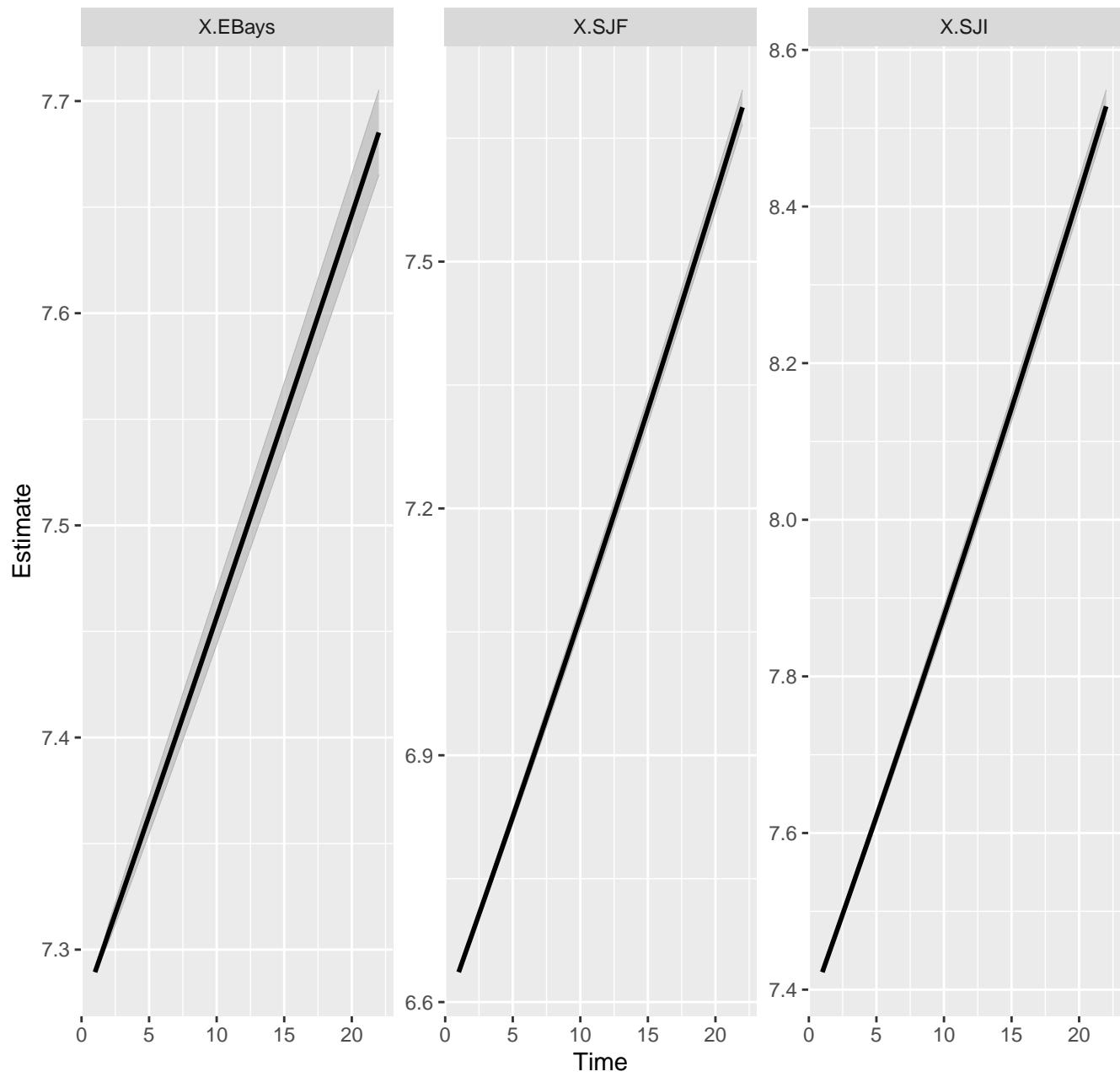
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

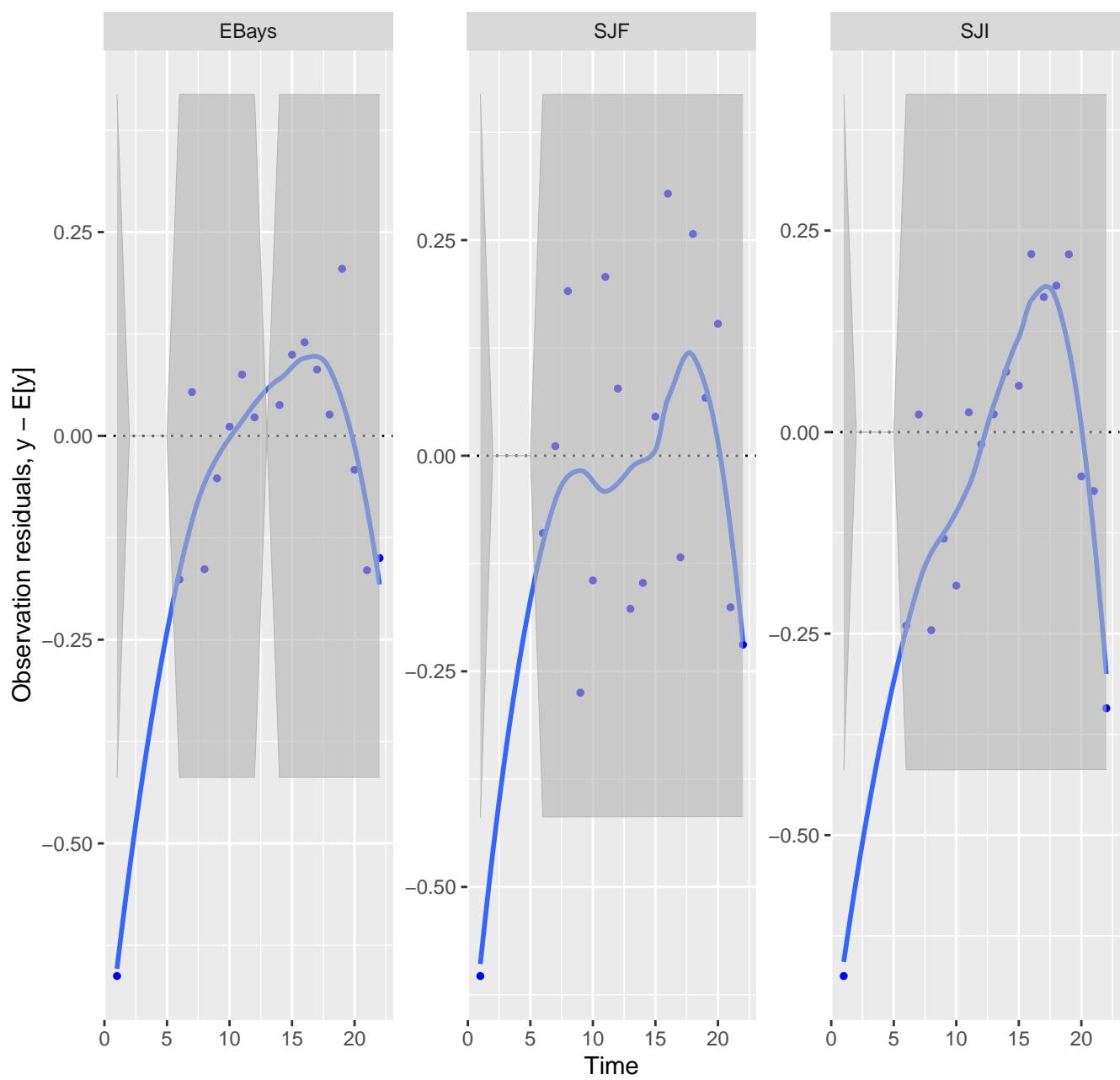
Model fitted Y + CI



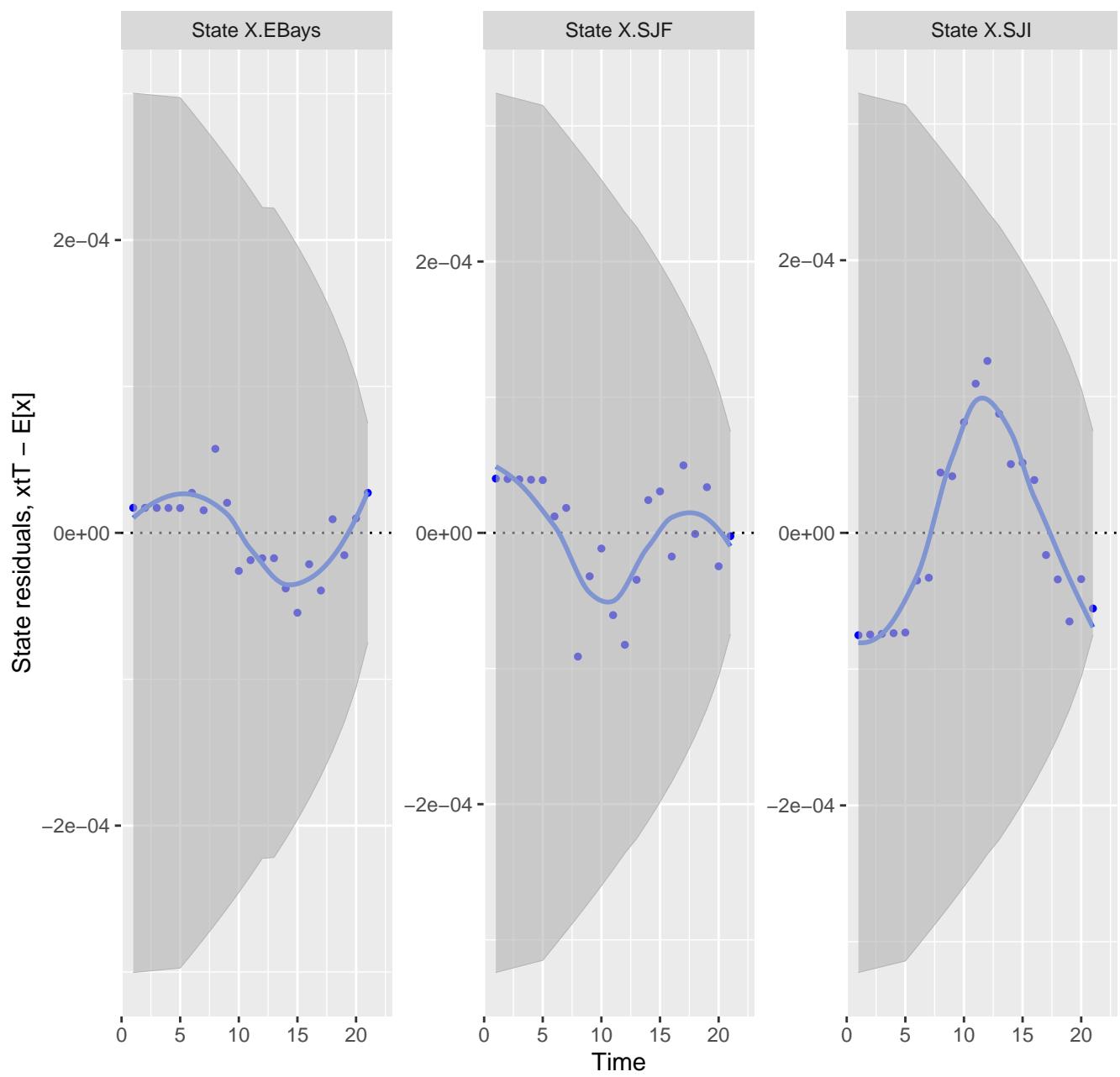
States



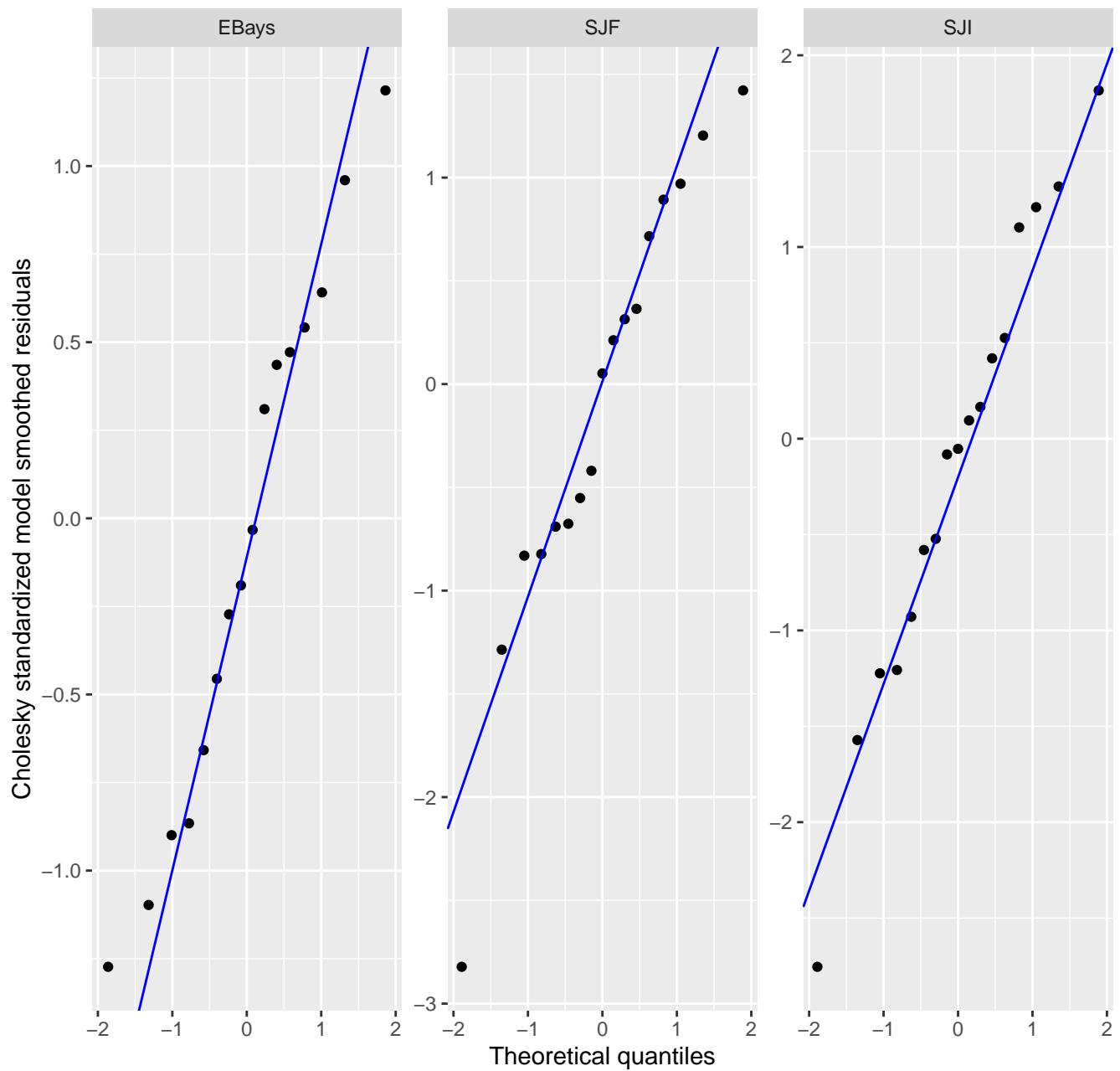
Model residuals



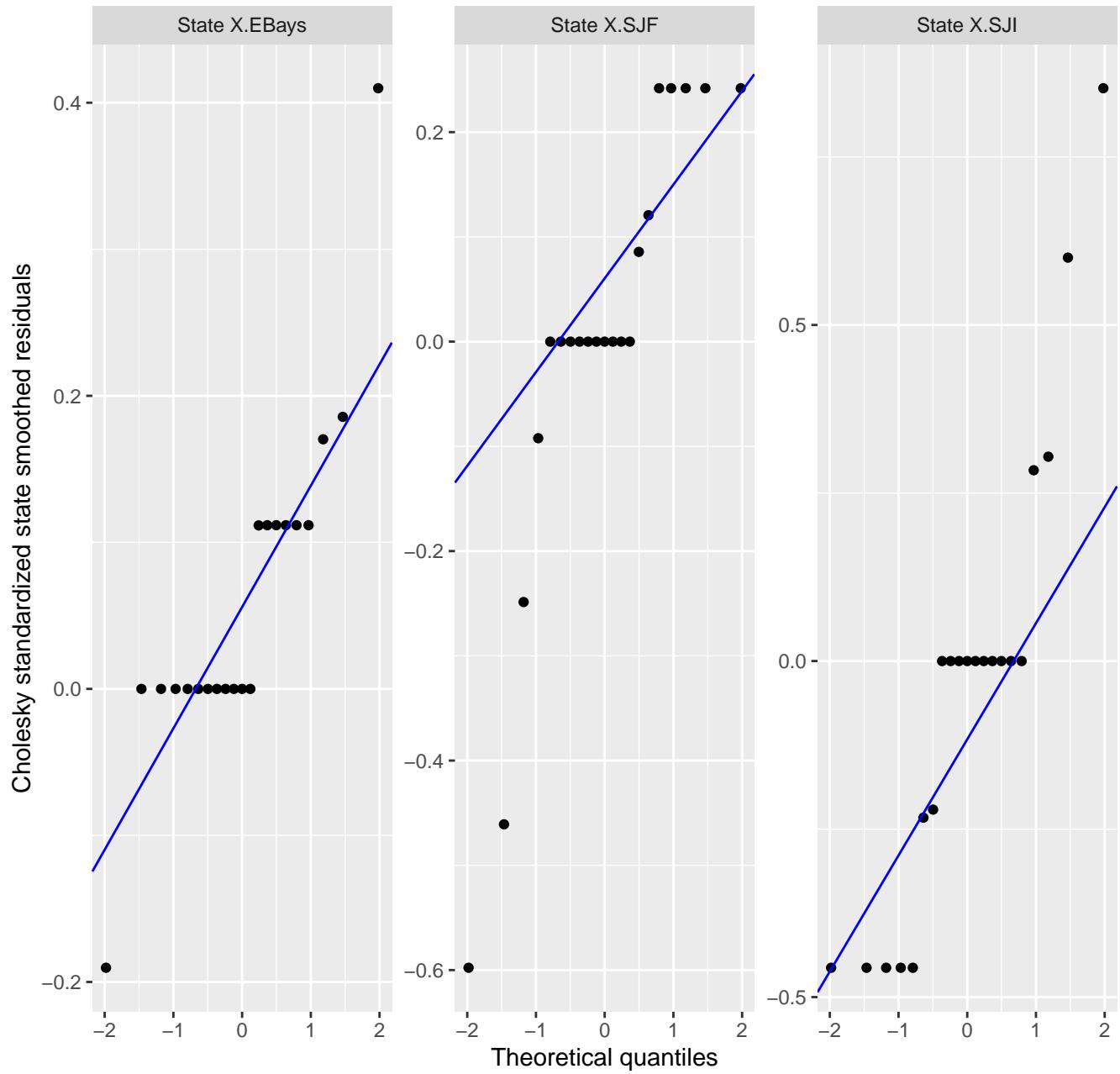
State residuals



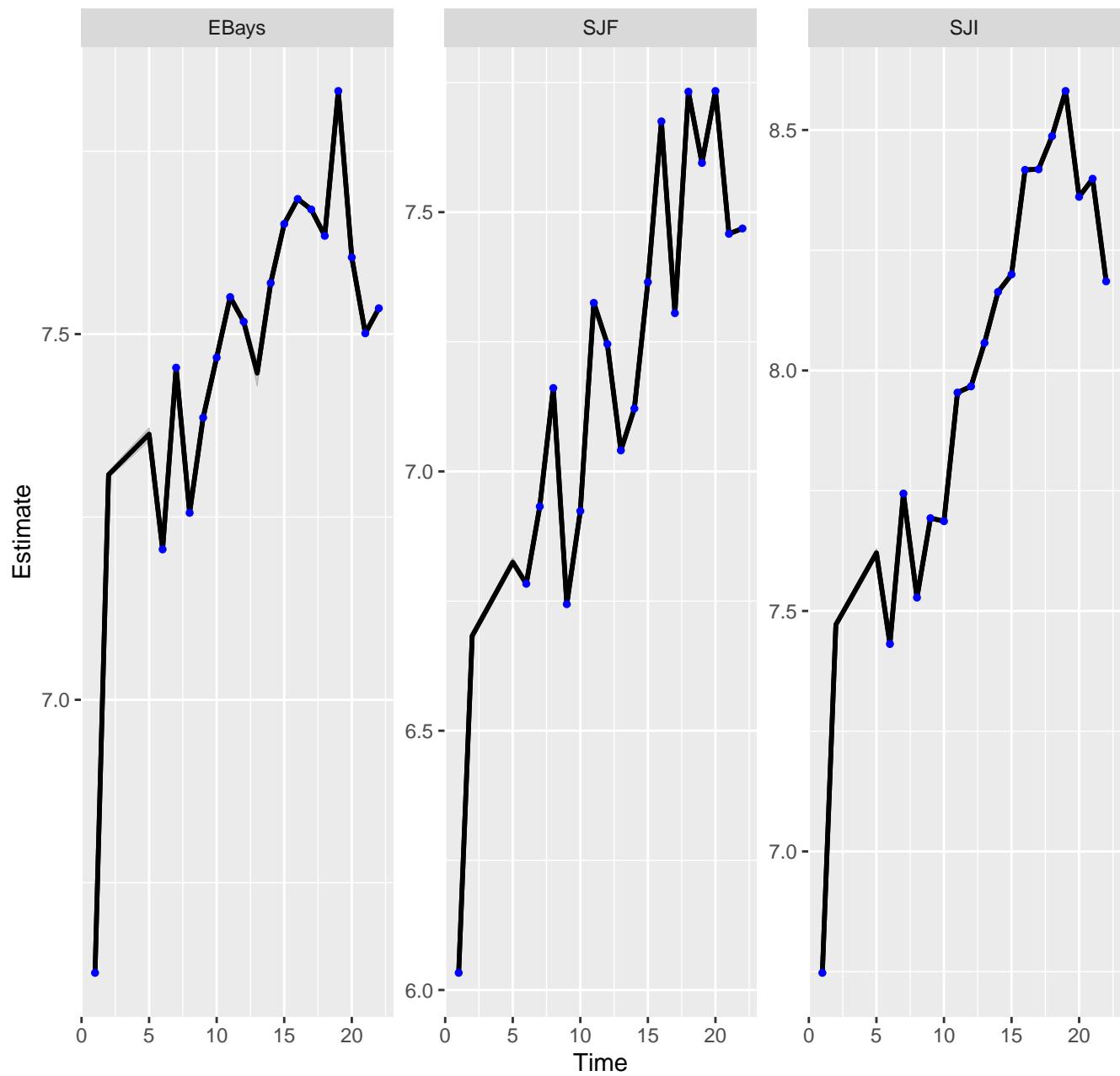
Model residuals normality test



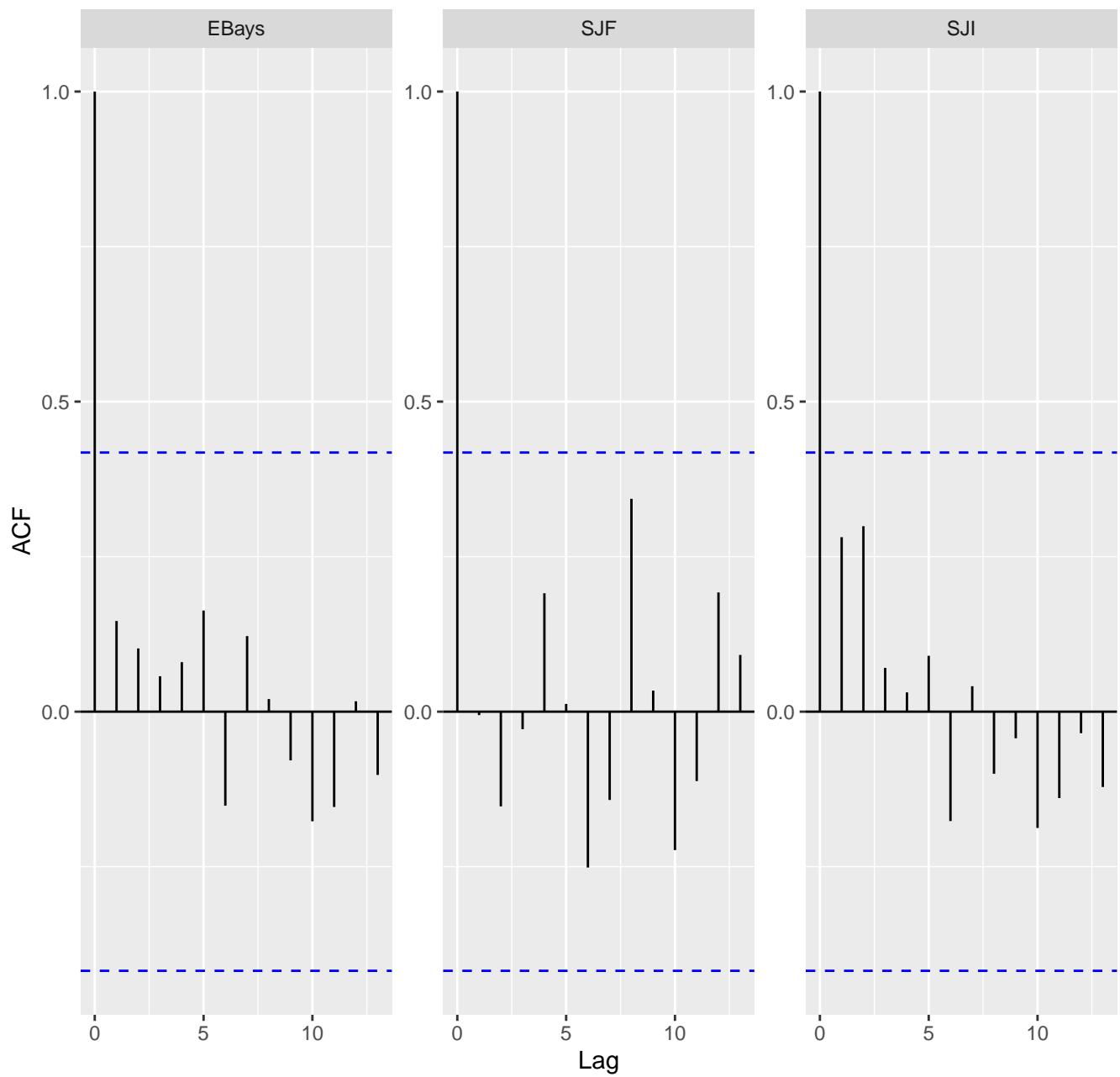
State residuals normality test

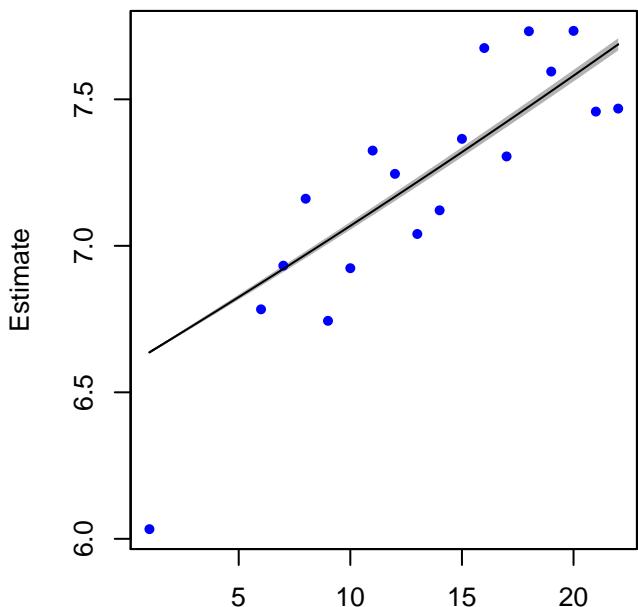
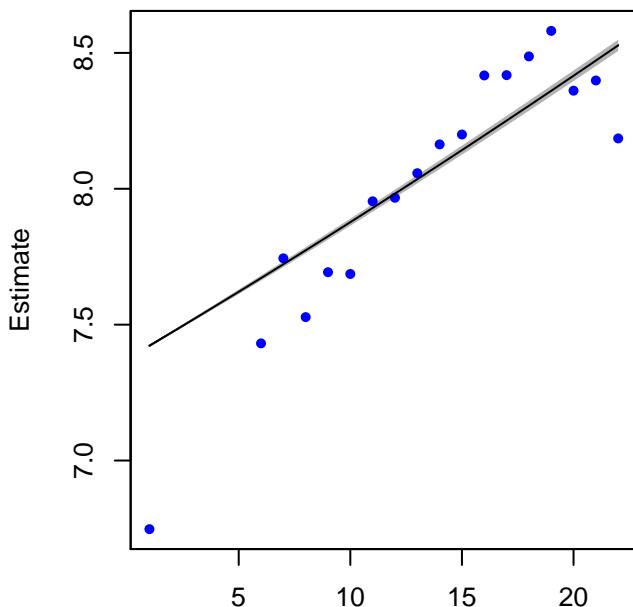
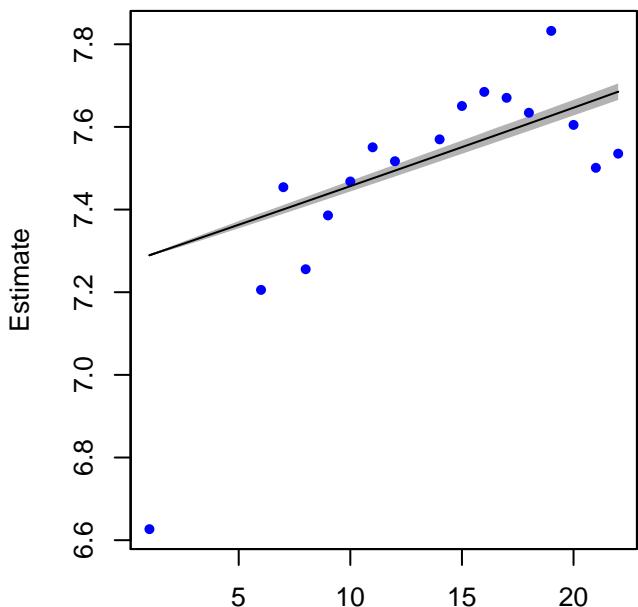


Expected value of Y conditioned on data

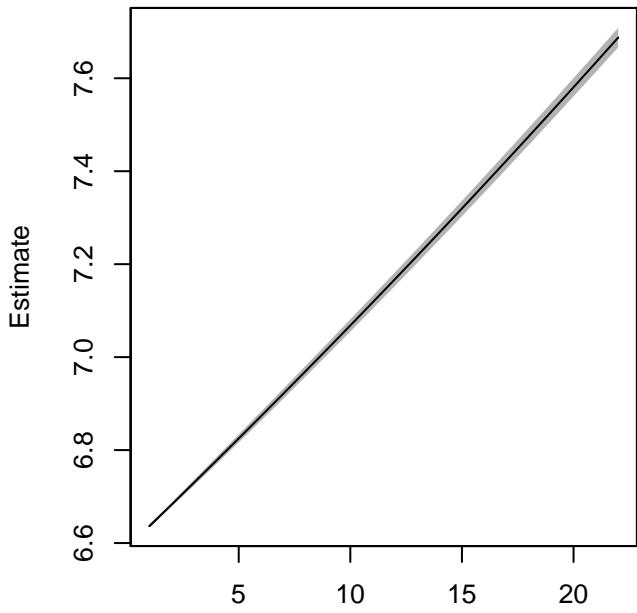


Model innovations residuals ACF

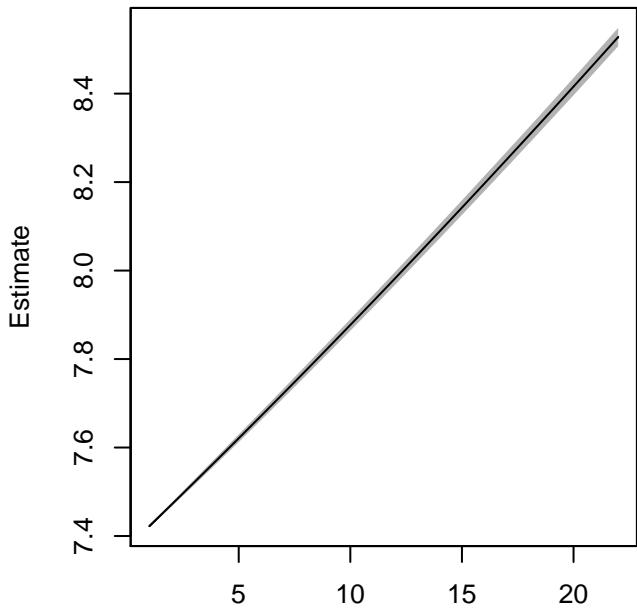


SJF + CI**SJI + CI****EBays + CI**

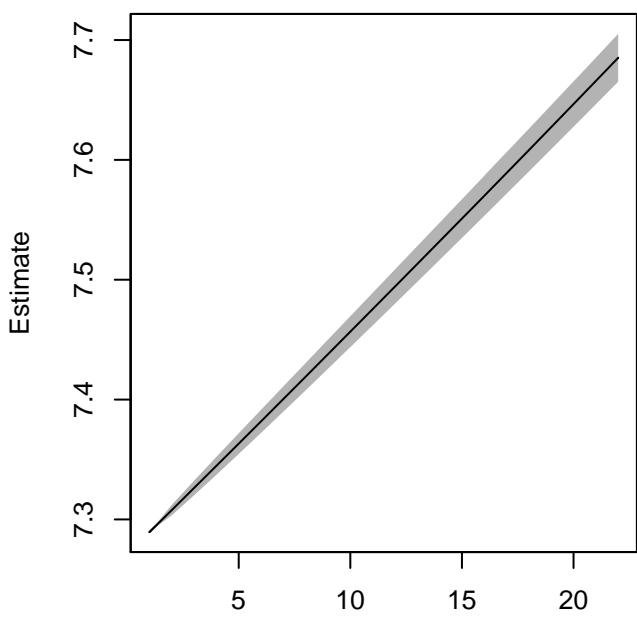
State X.SJF

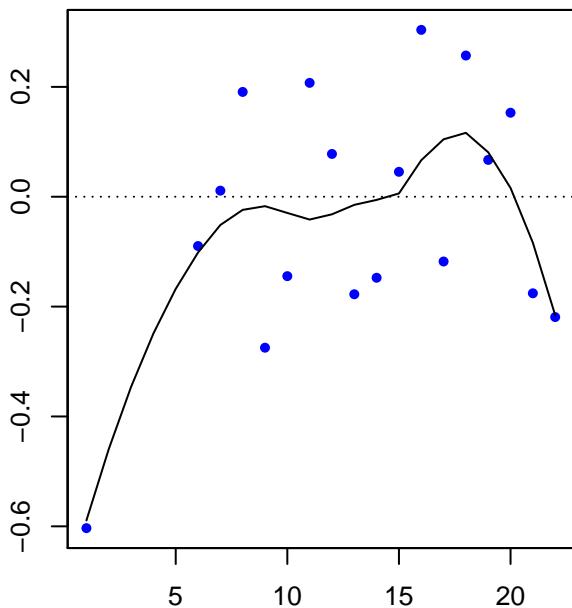
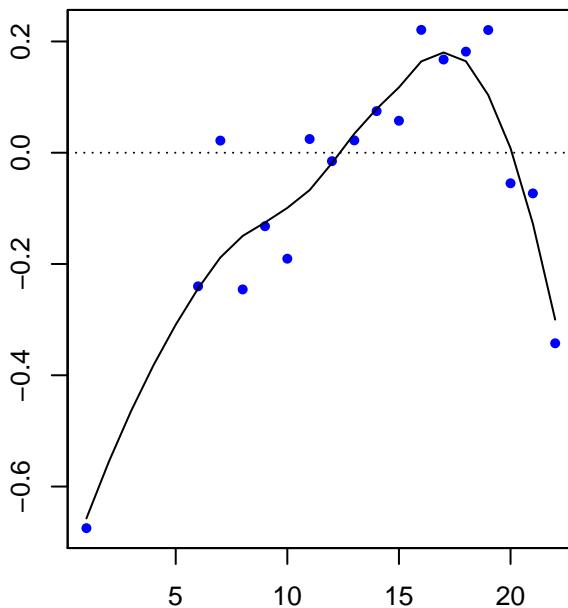
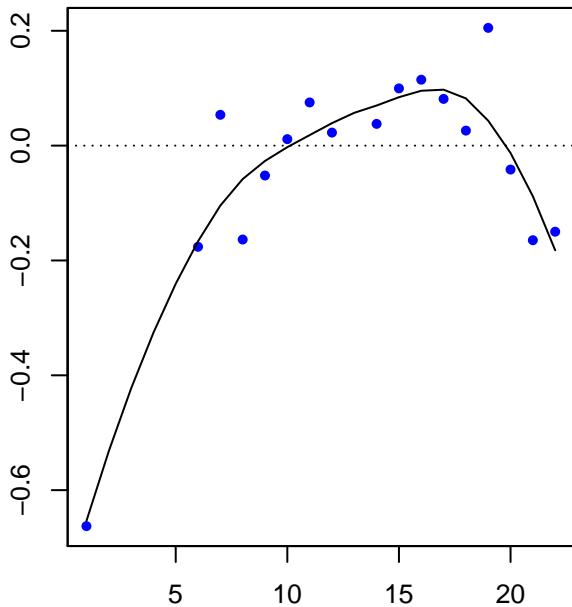


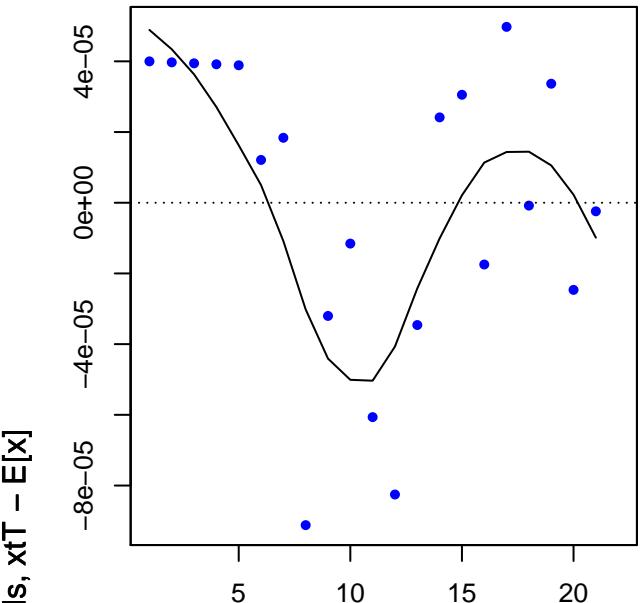
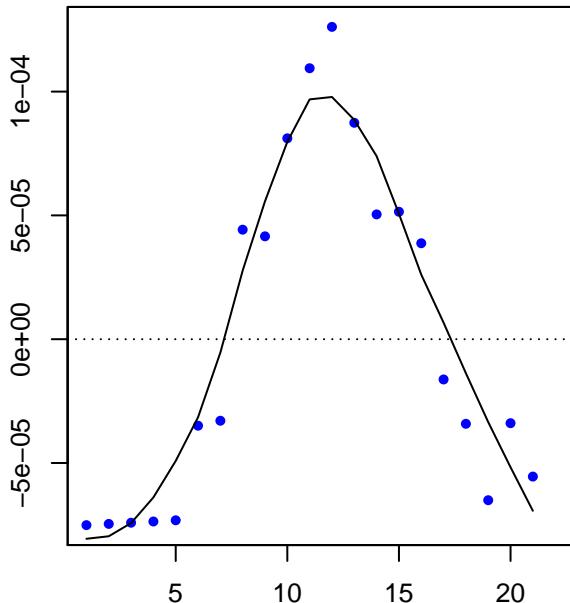
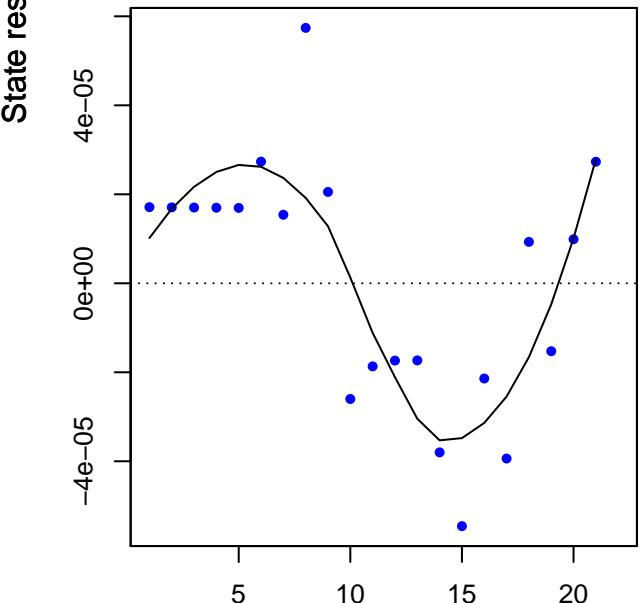
State X.SJI

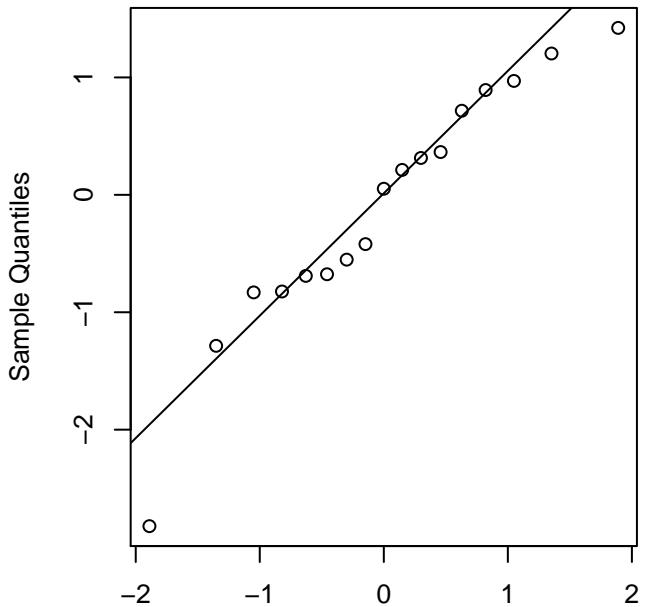
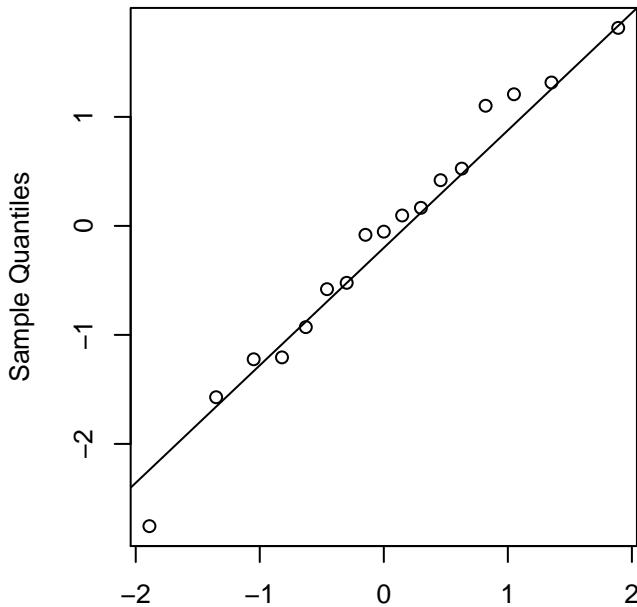
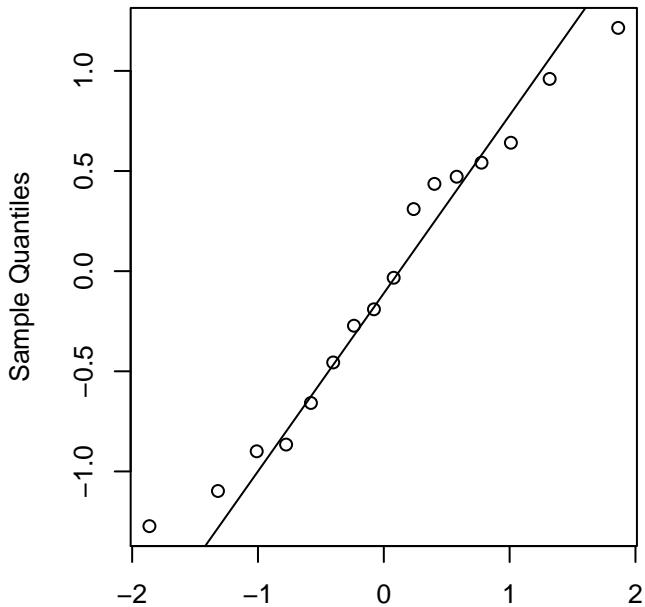


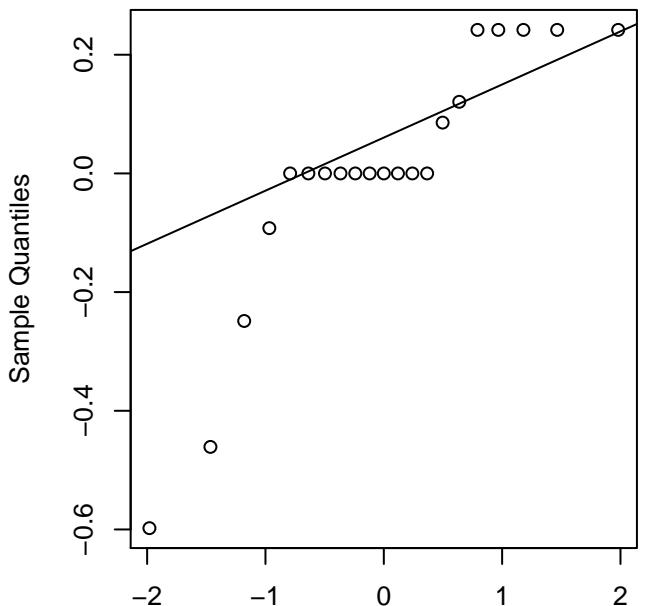
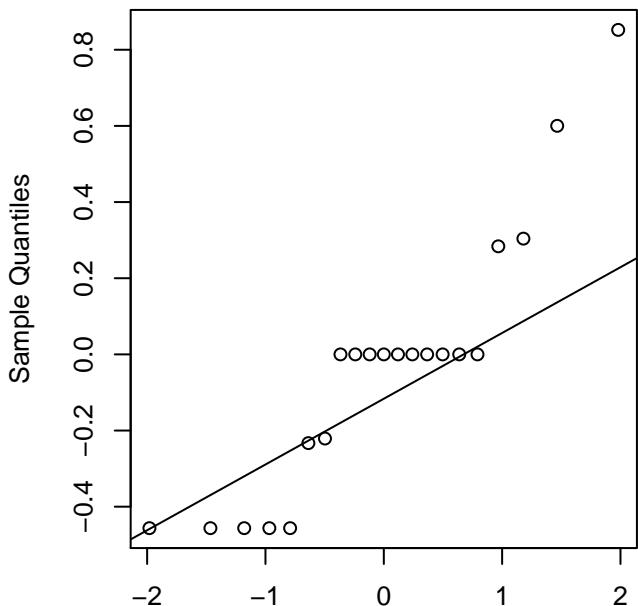
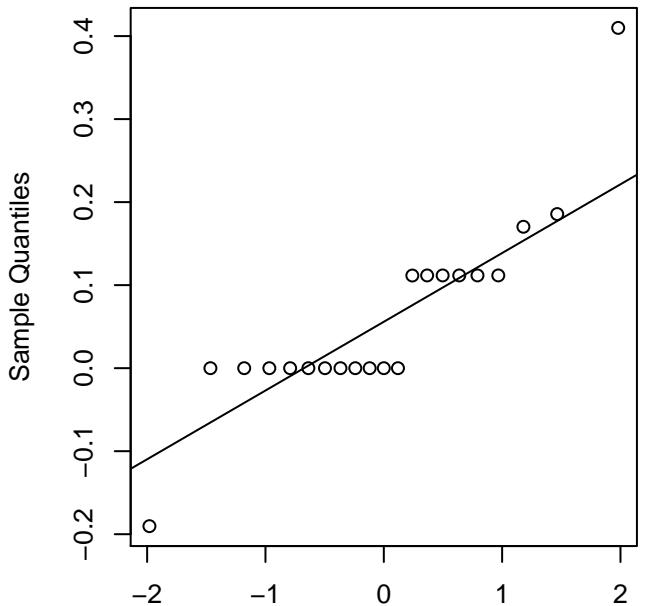
State X.EBays

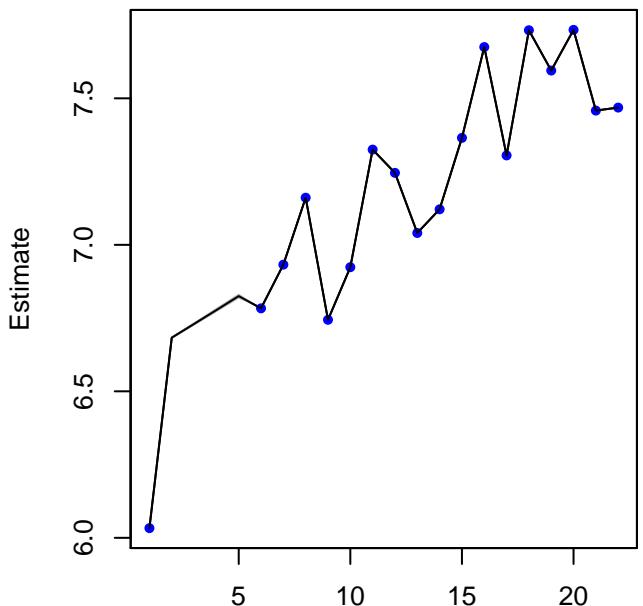
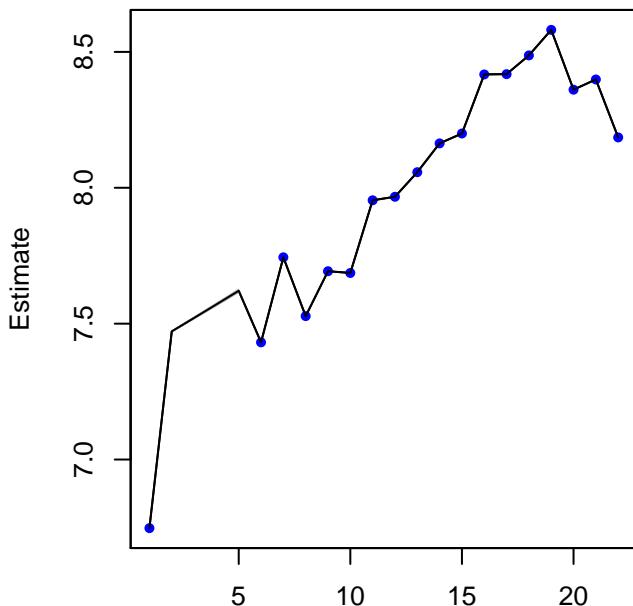
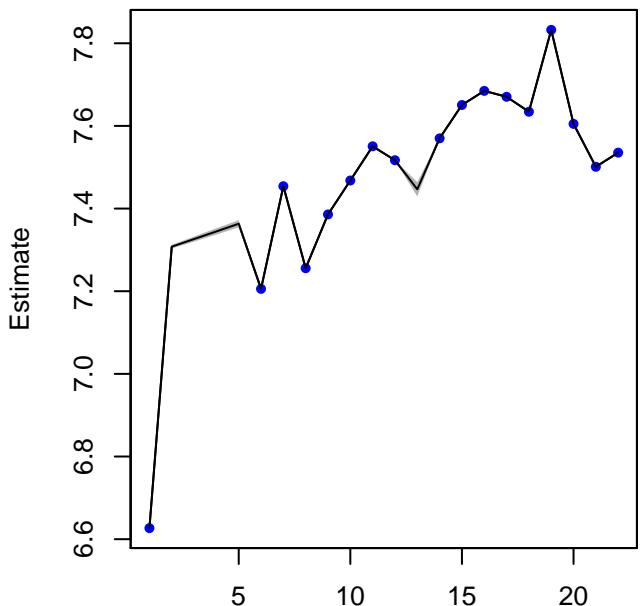


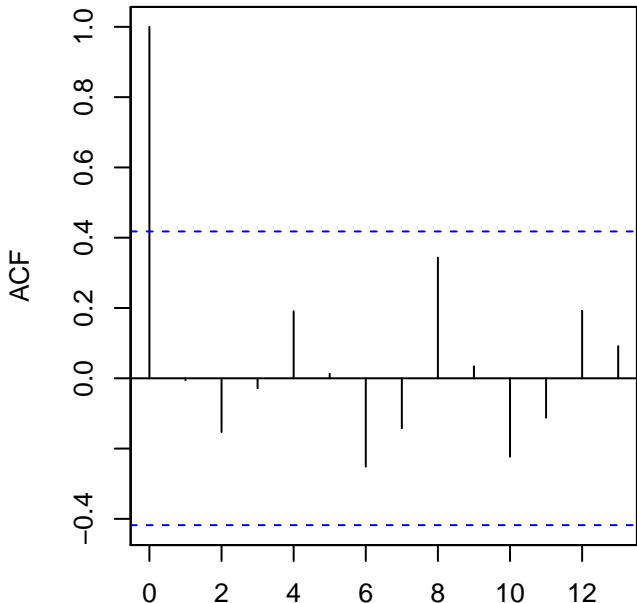
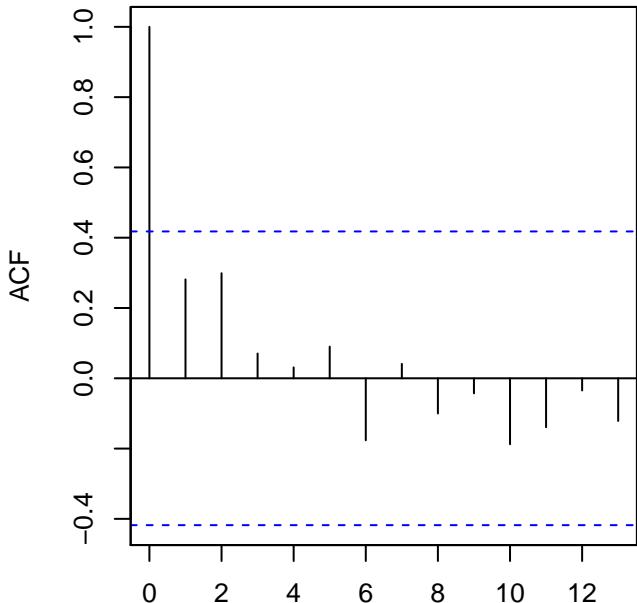
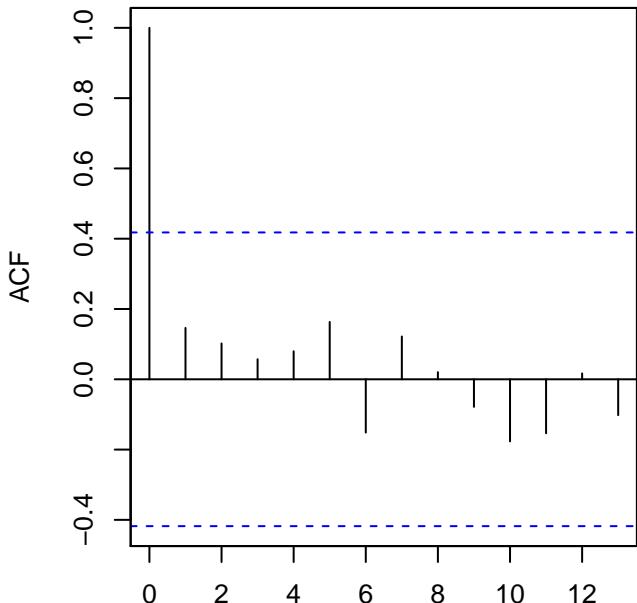
SJFObservation residuals, $y - E[y]$ **SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

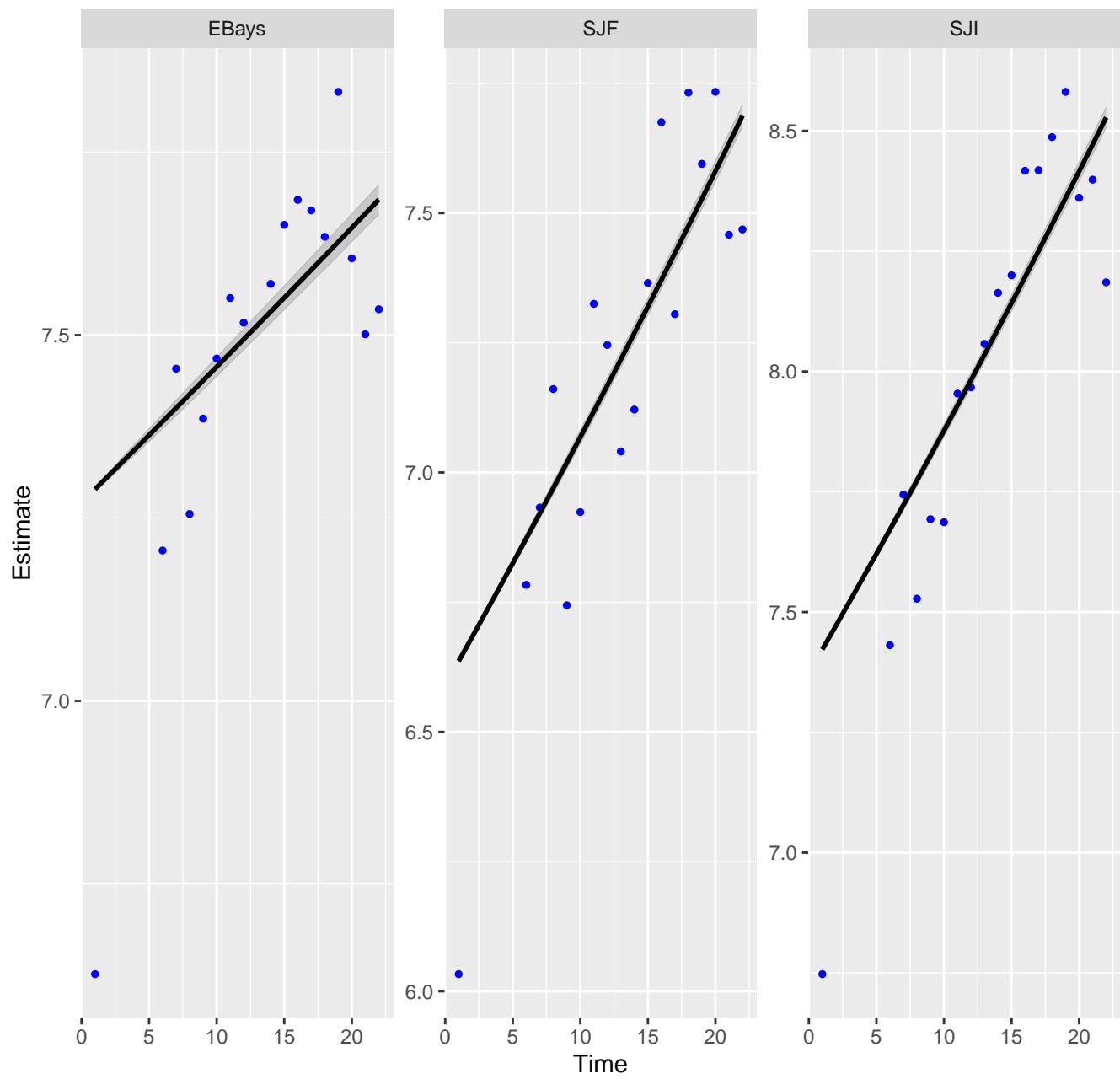
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

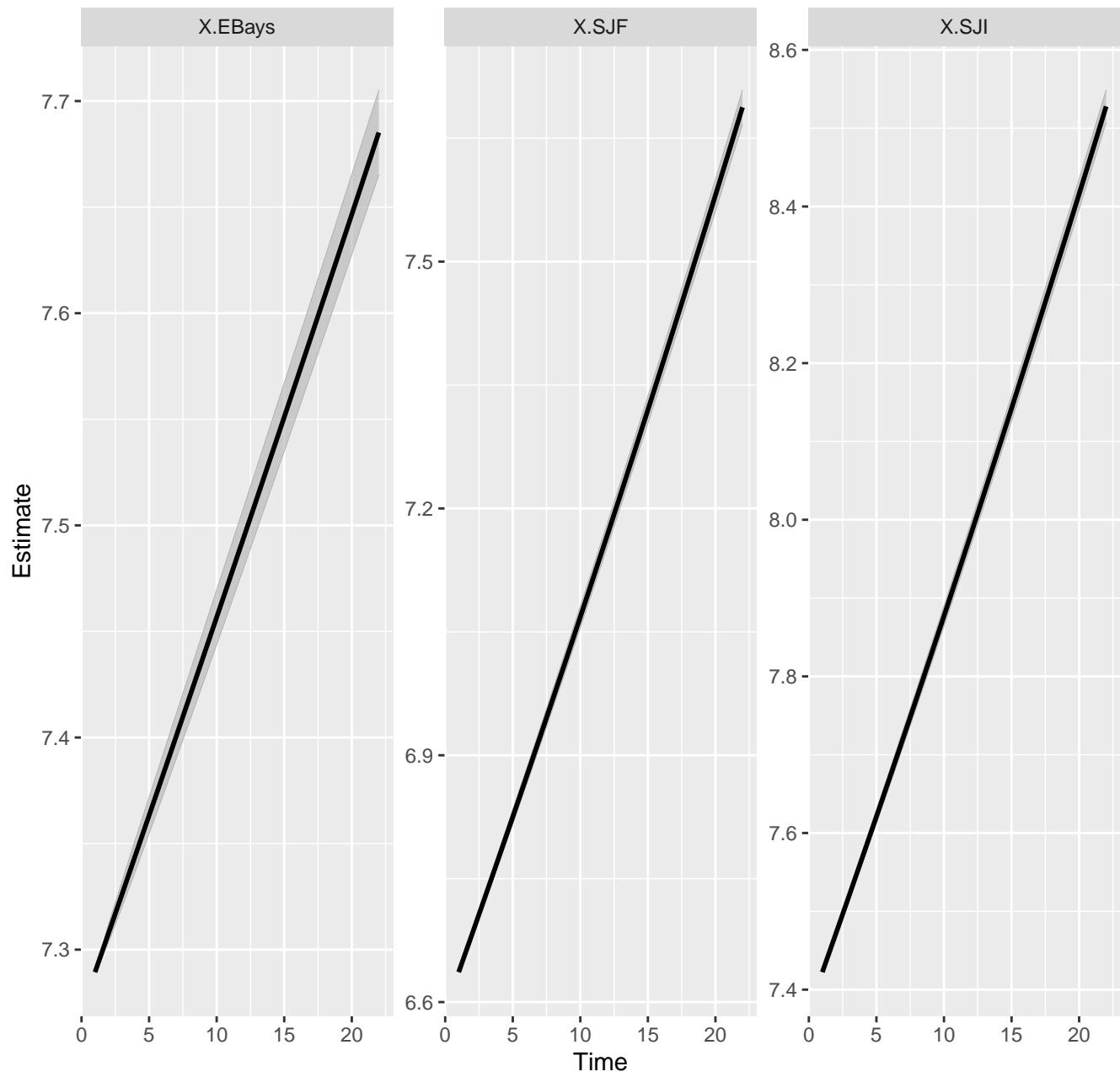
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

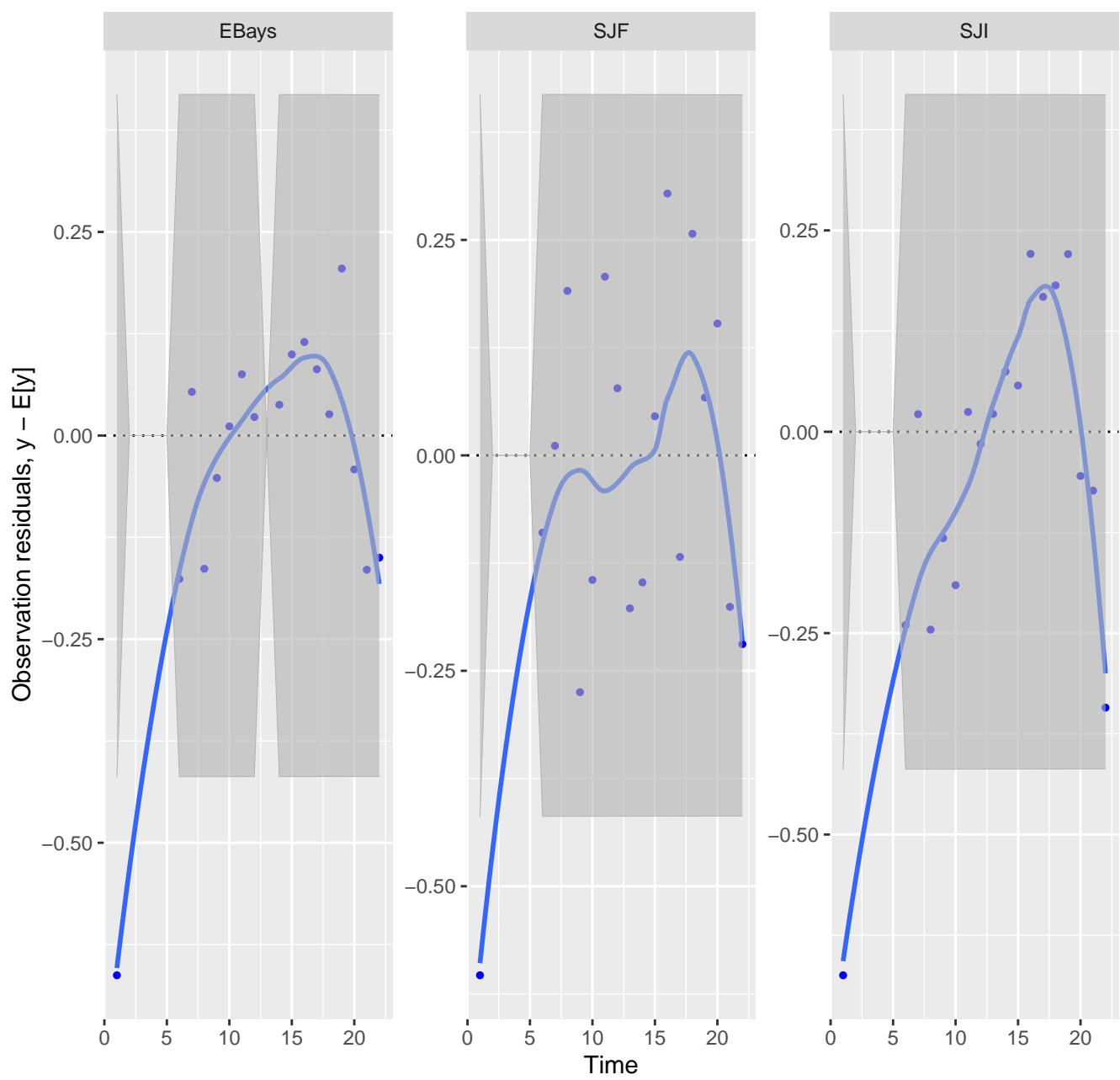
Model fitted Y + CI



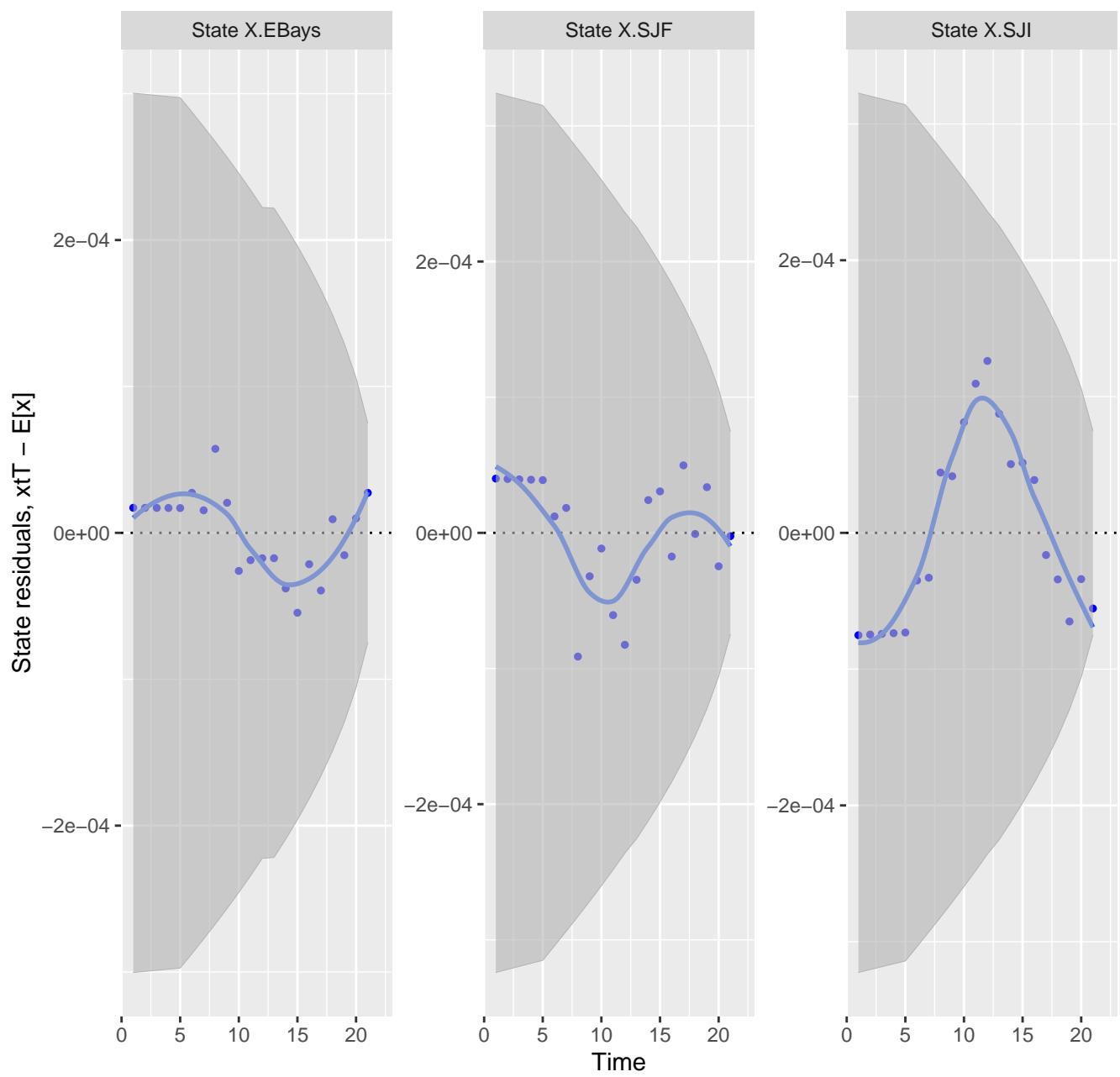
States



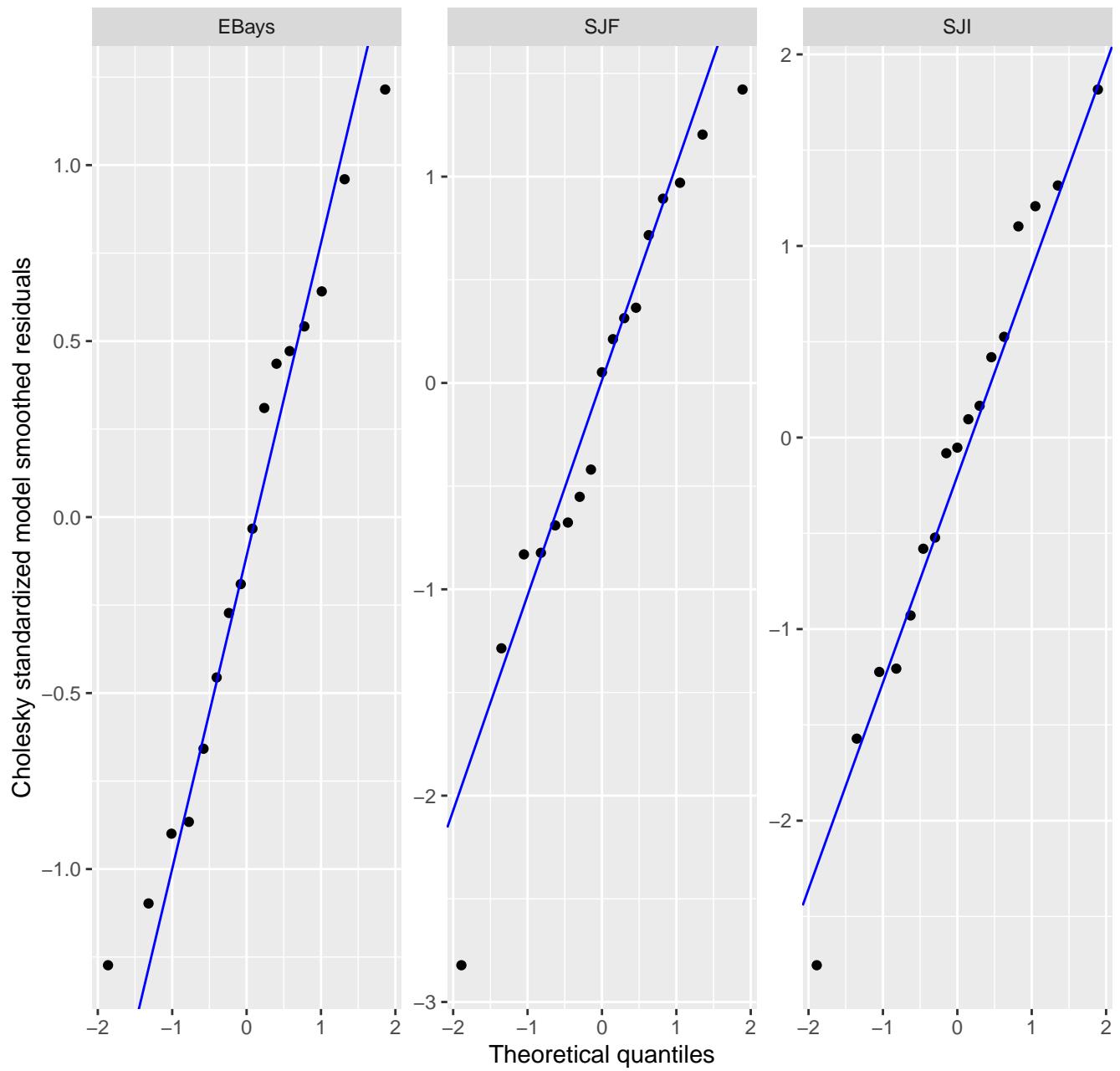
Model residuals



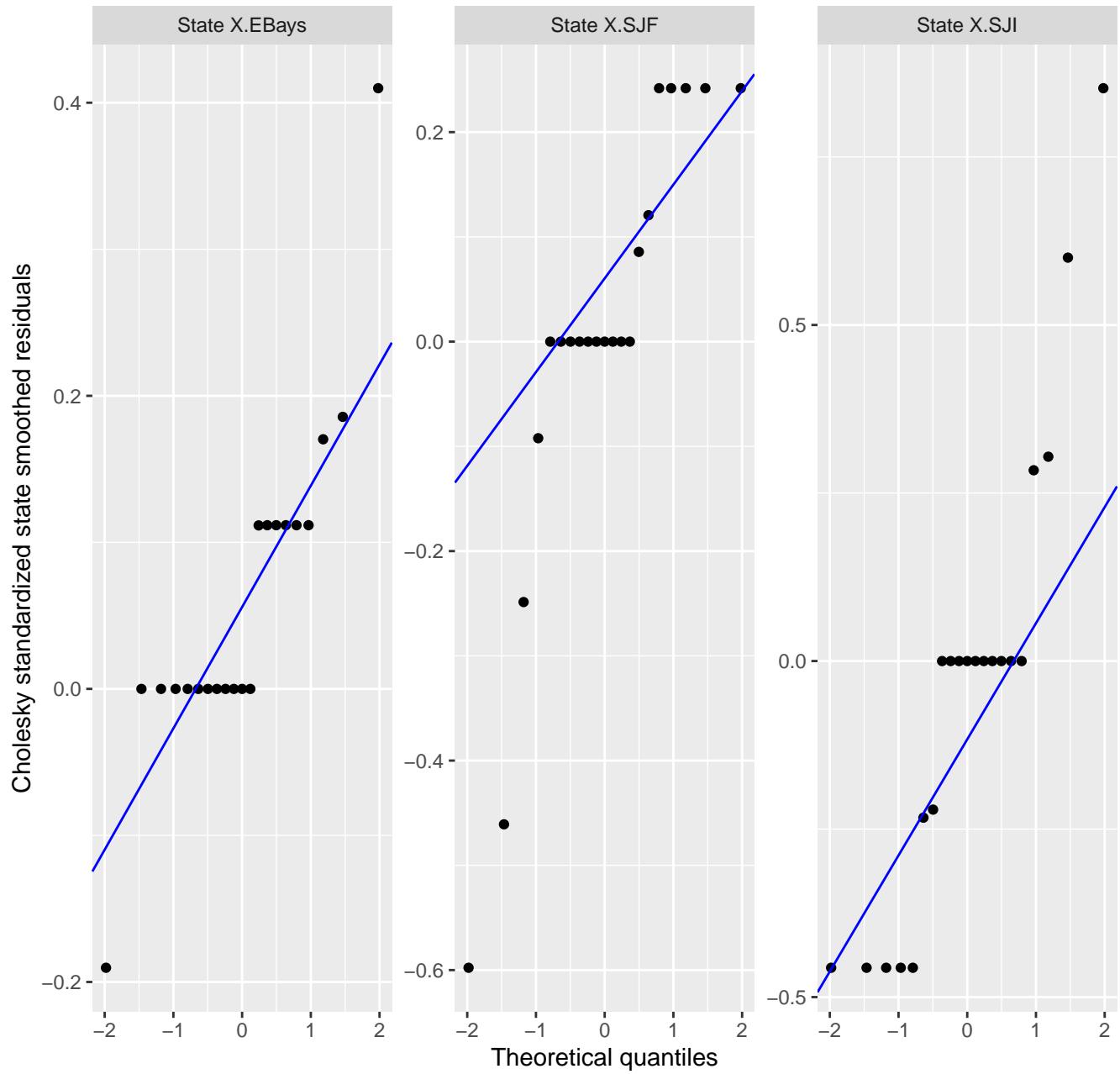
State residuals



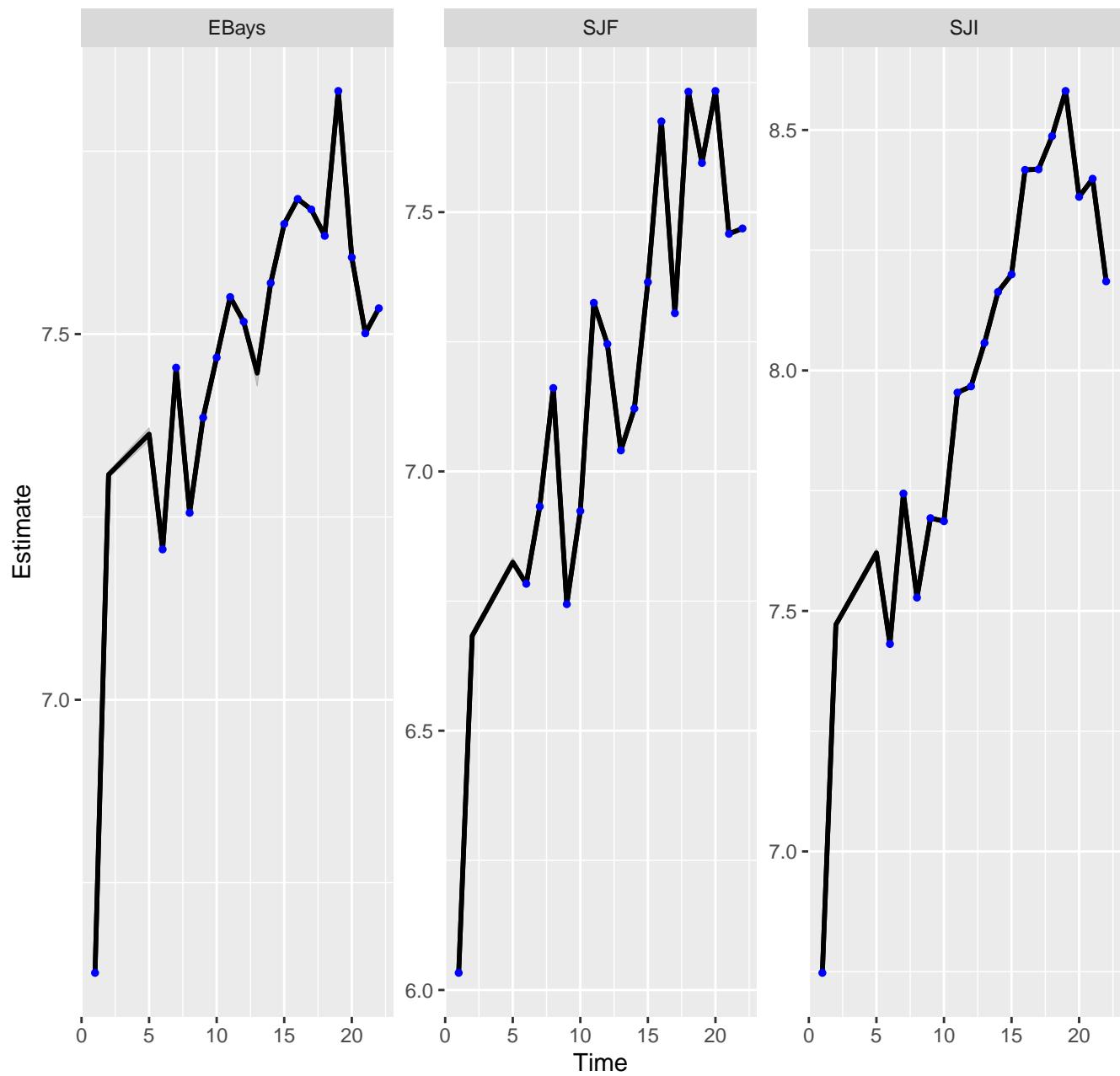
Model residuals normality test



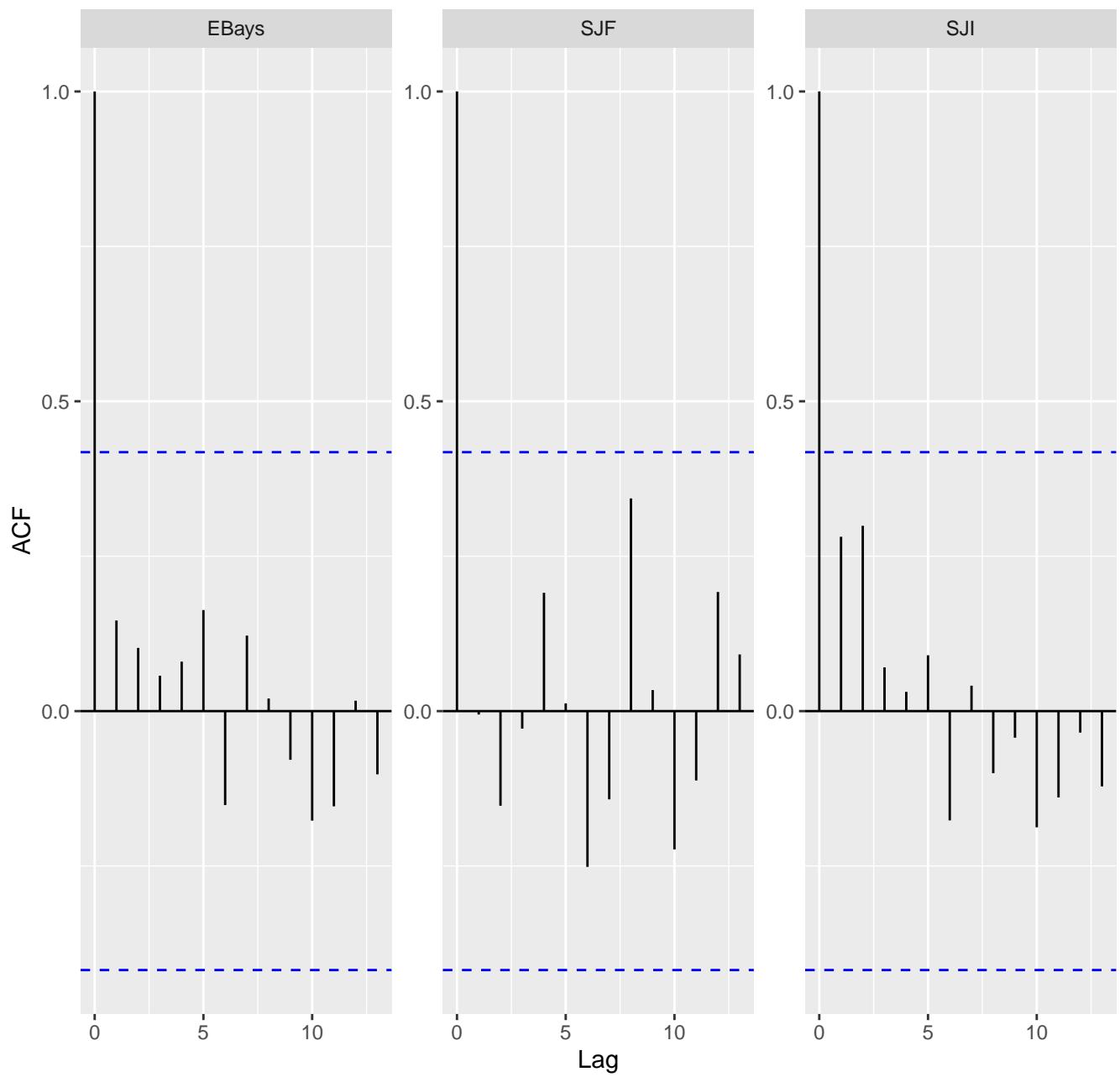
State residuals normality test

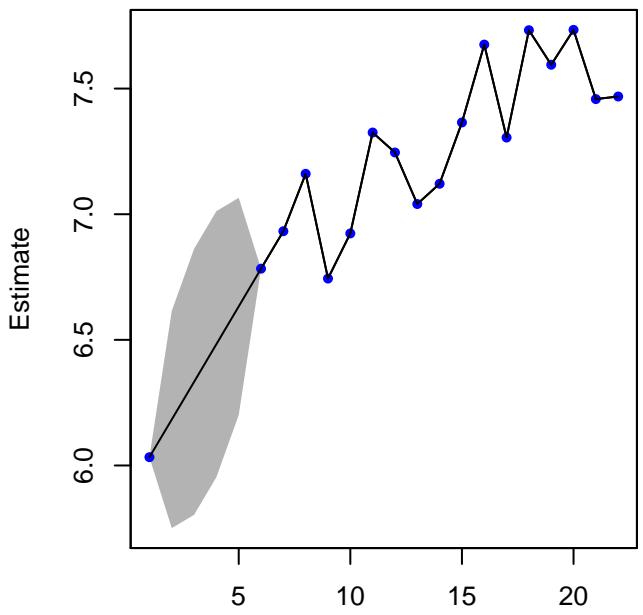
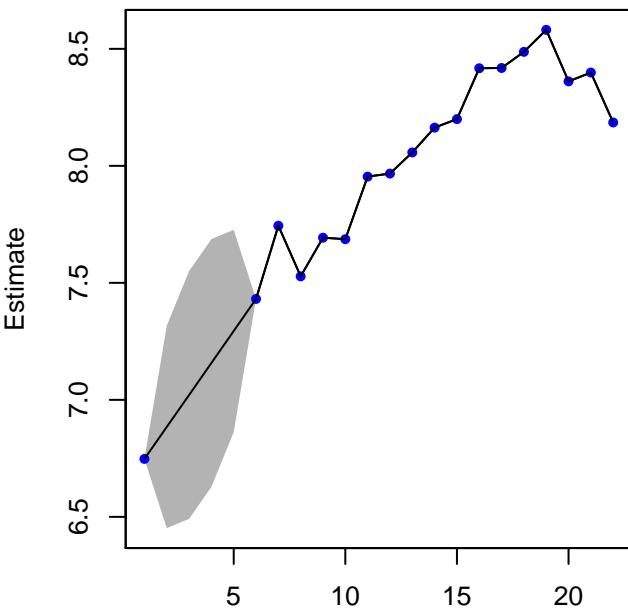
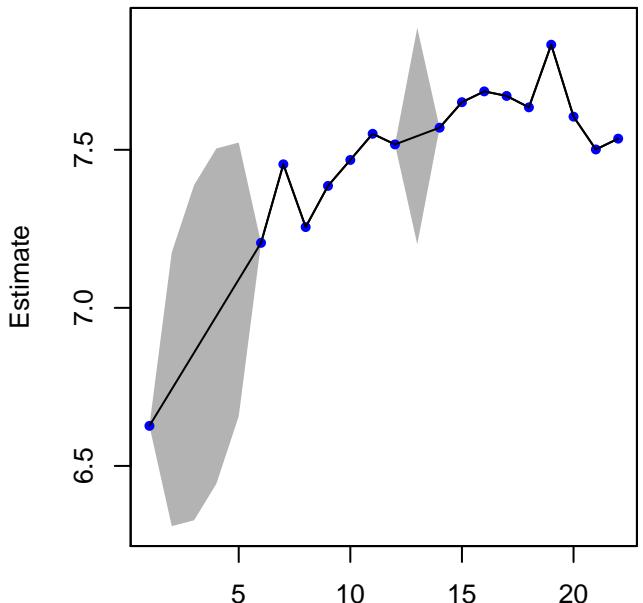


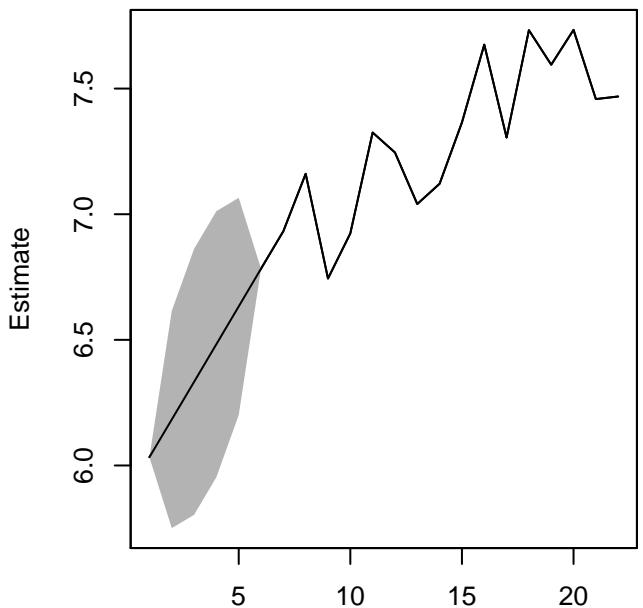
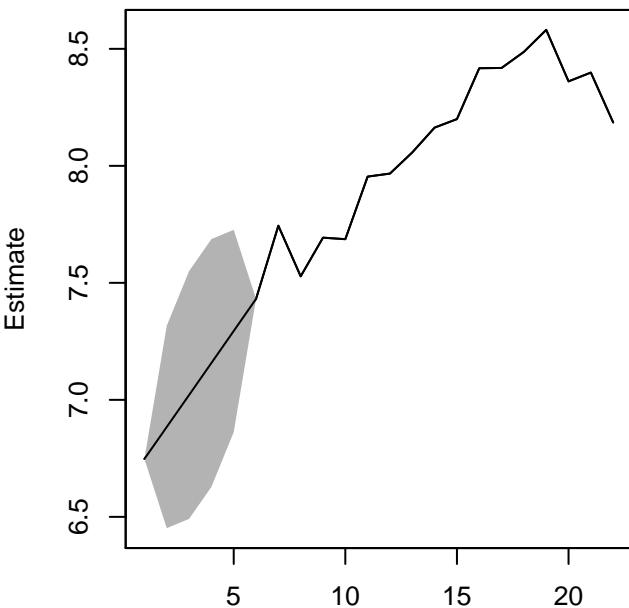
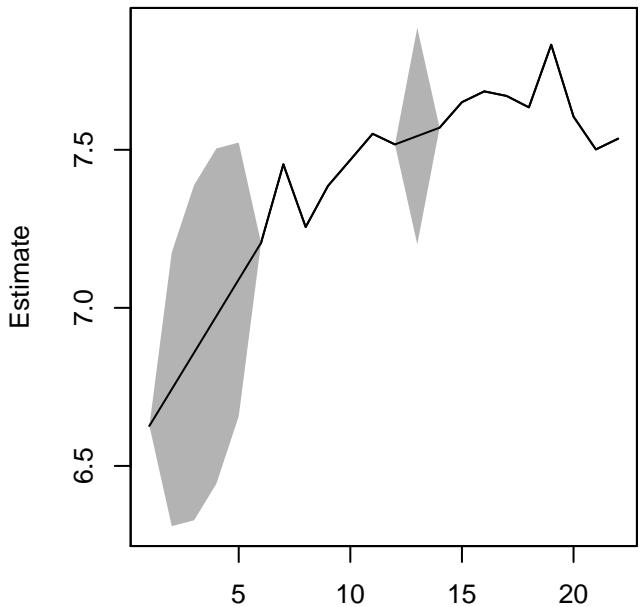
Expected value of Y conditioned on data



Model innovations residuals ACF

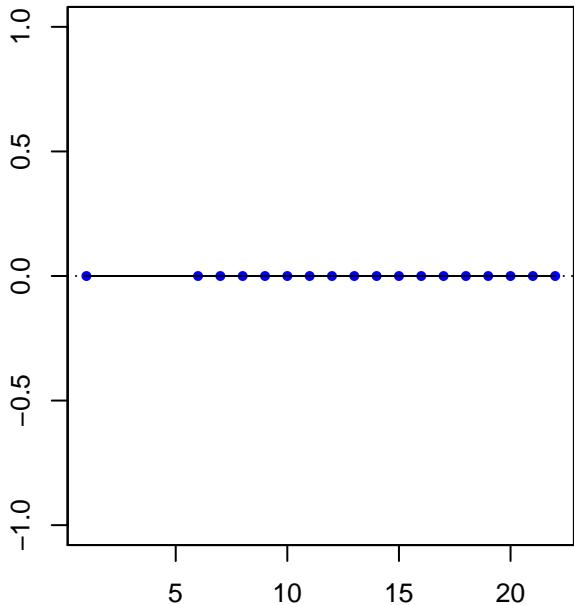


SJF + CI**SJI + CI****EBays + CI**

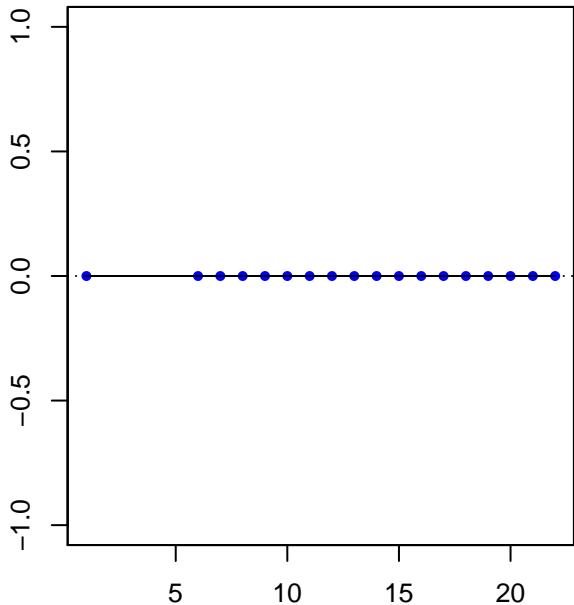
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

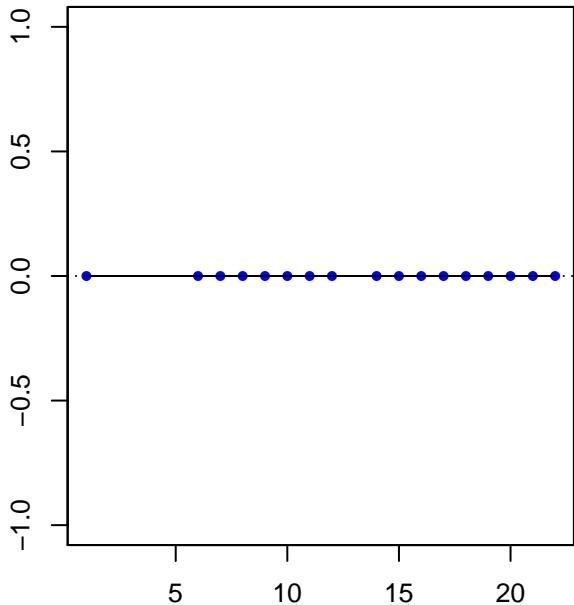
SJF



SJI

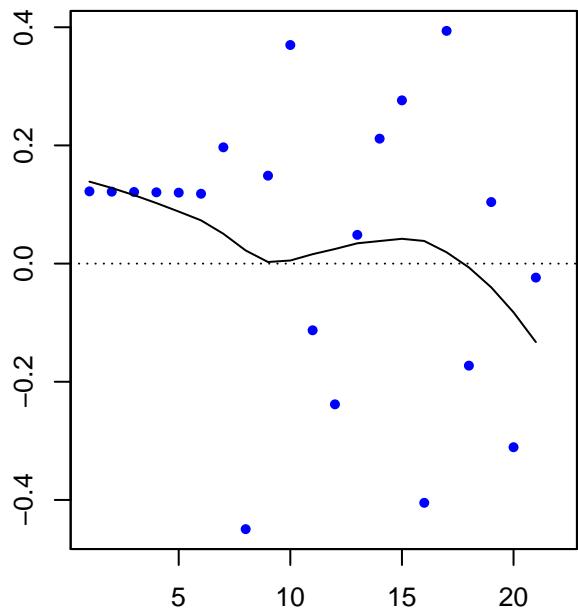


EBays

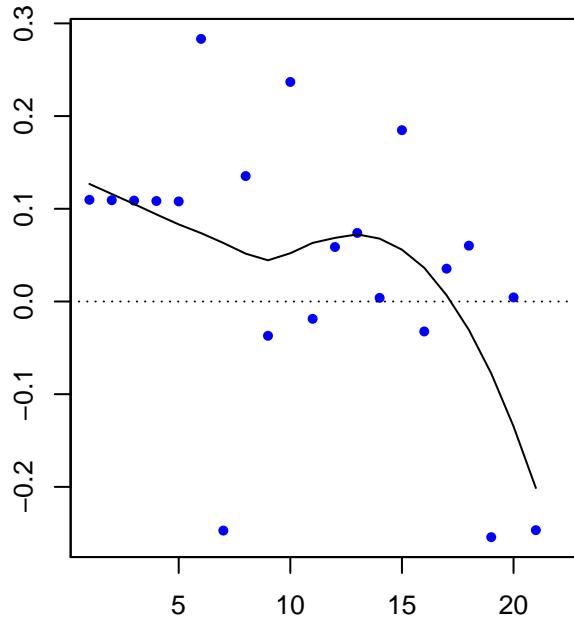


State residuals, $x_{tT} - E[x]$

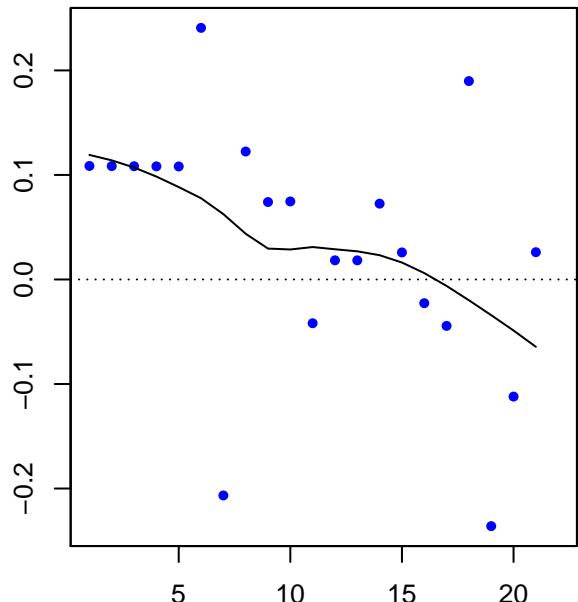
State X.SJF

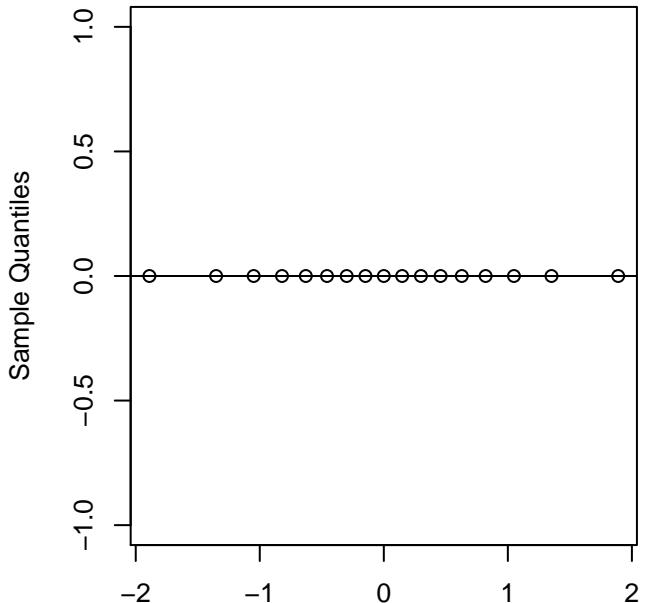
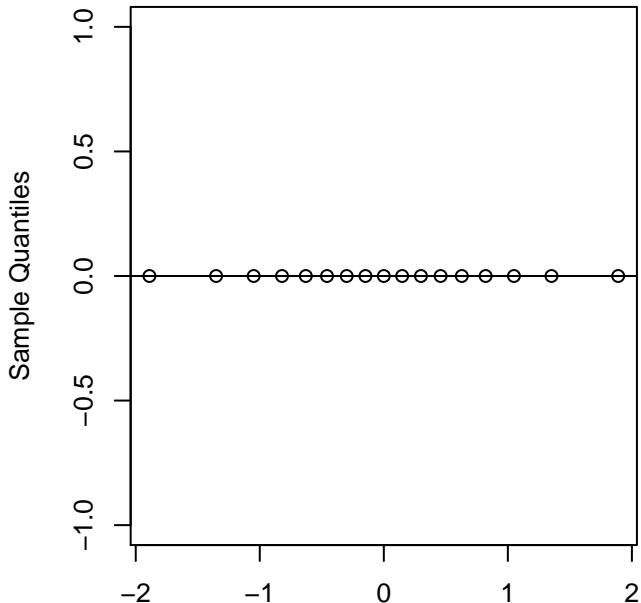
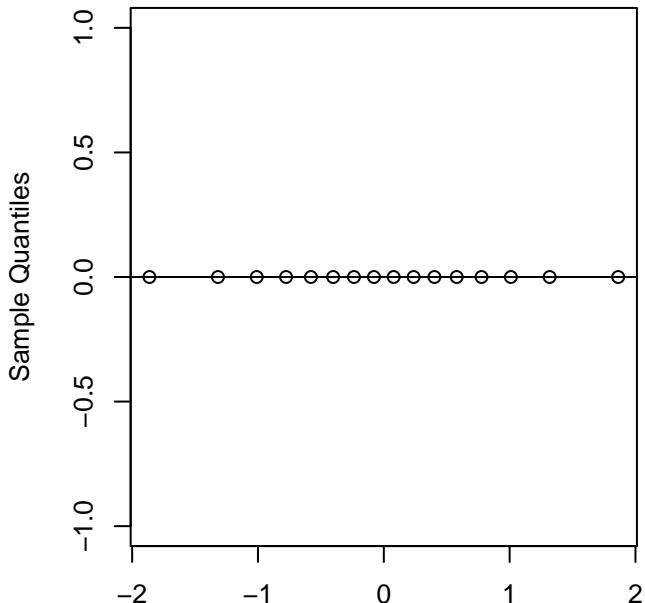


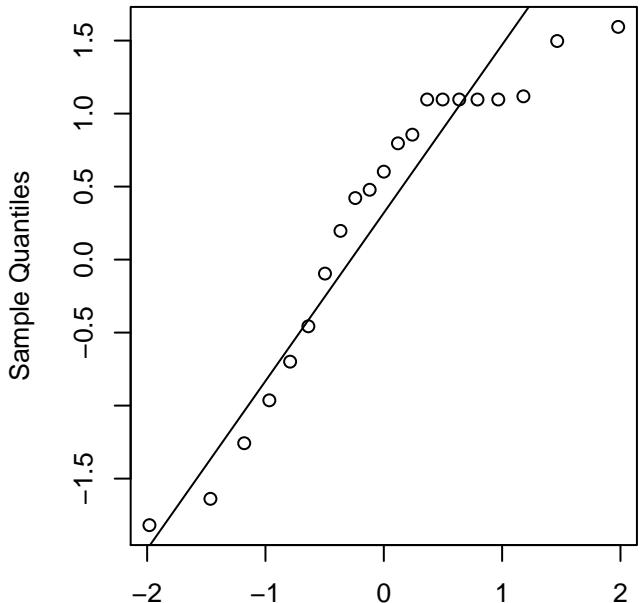
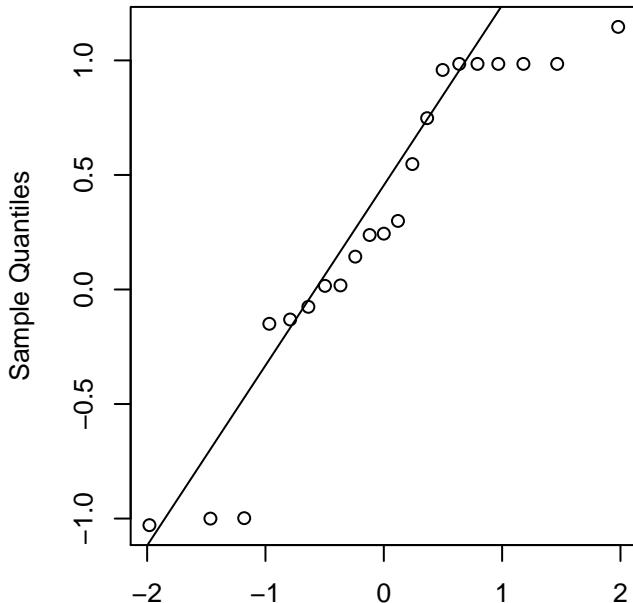
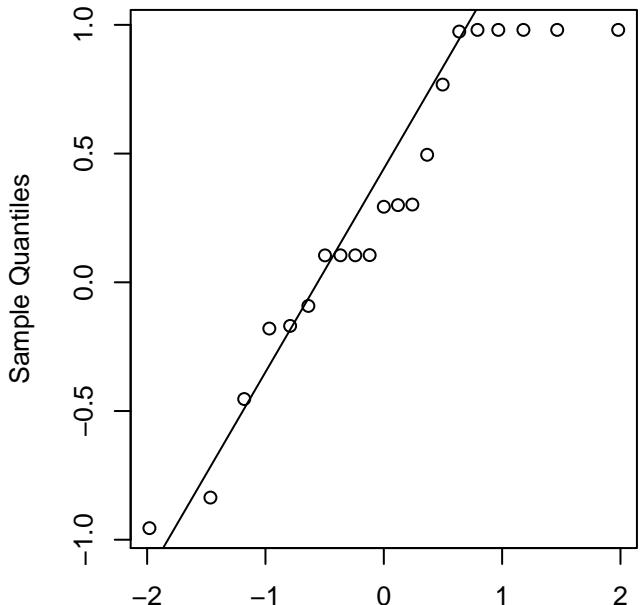
State X.SJI

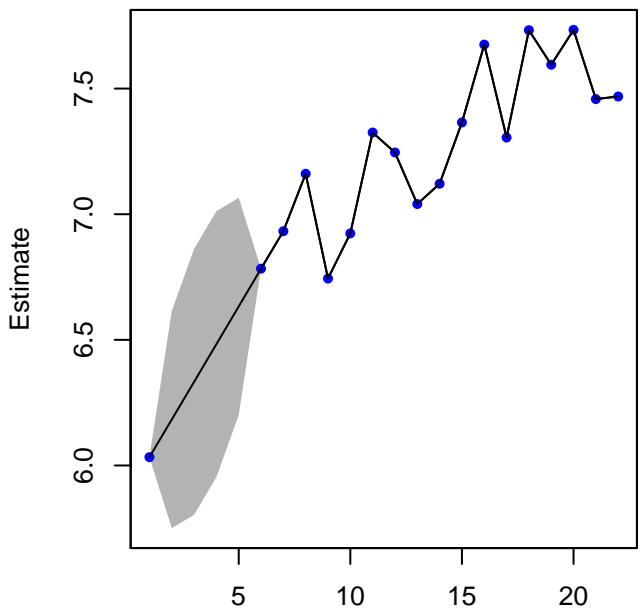
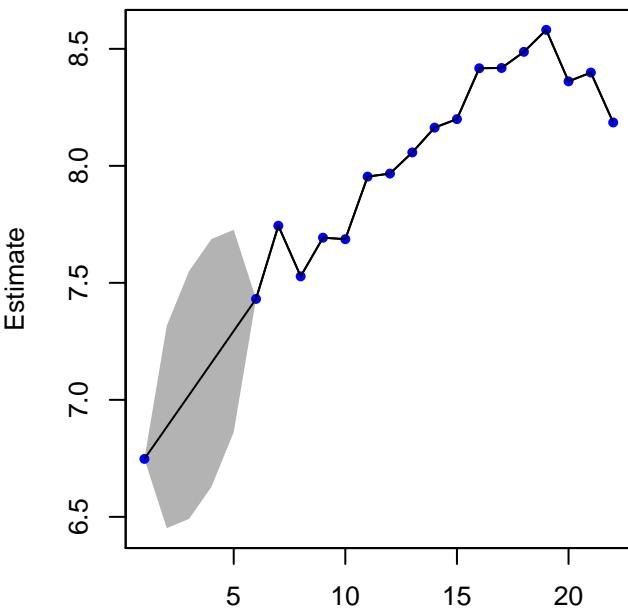
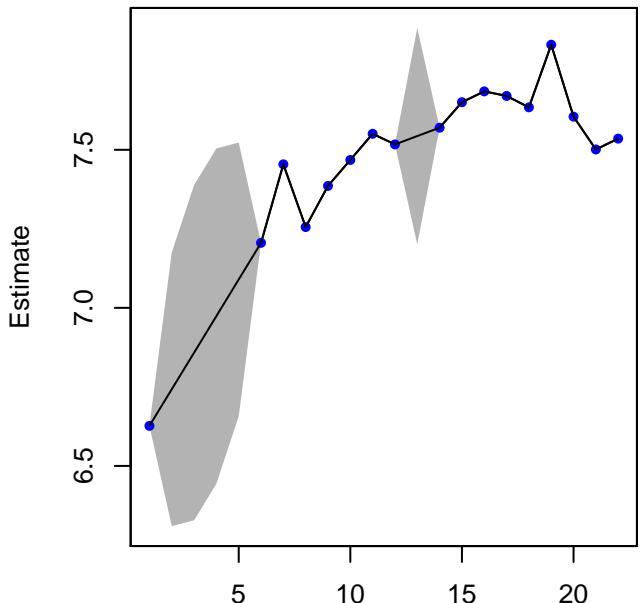


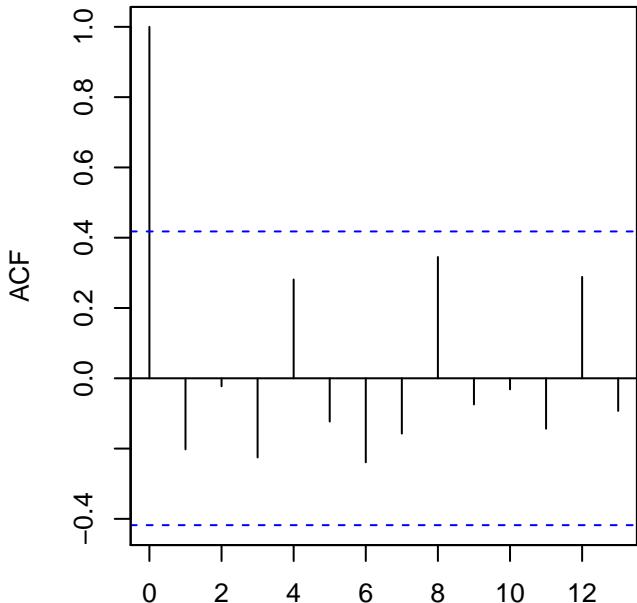
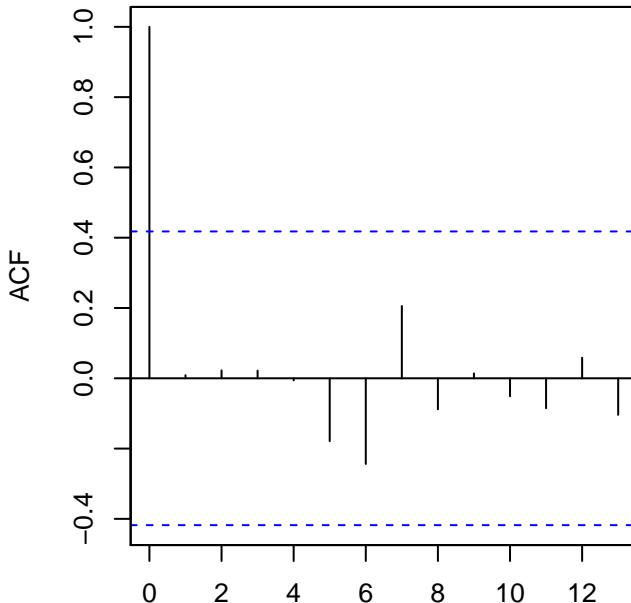
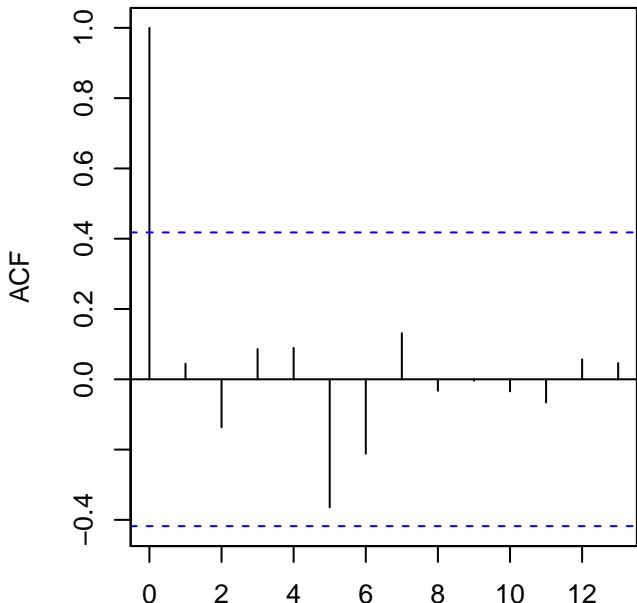
State X.EBays



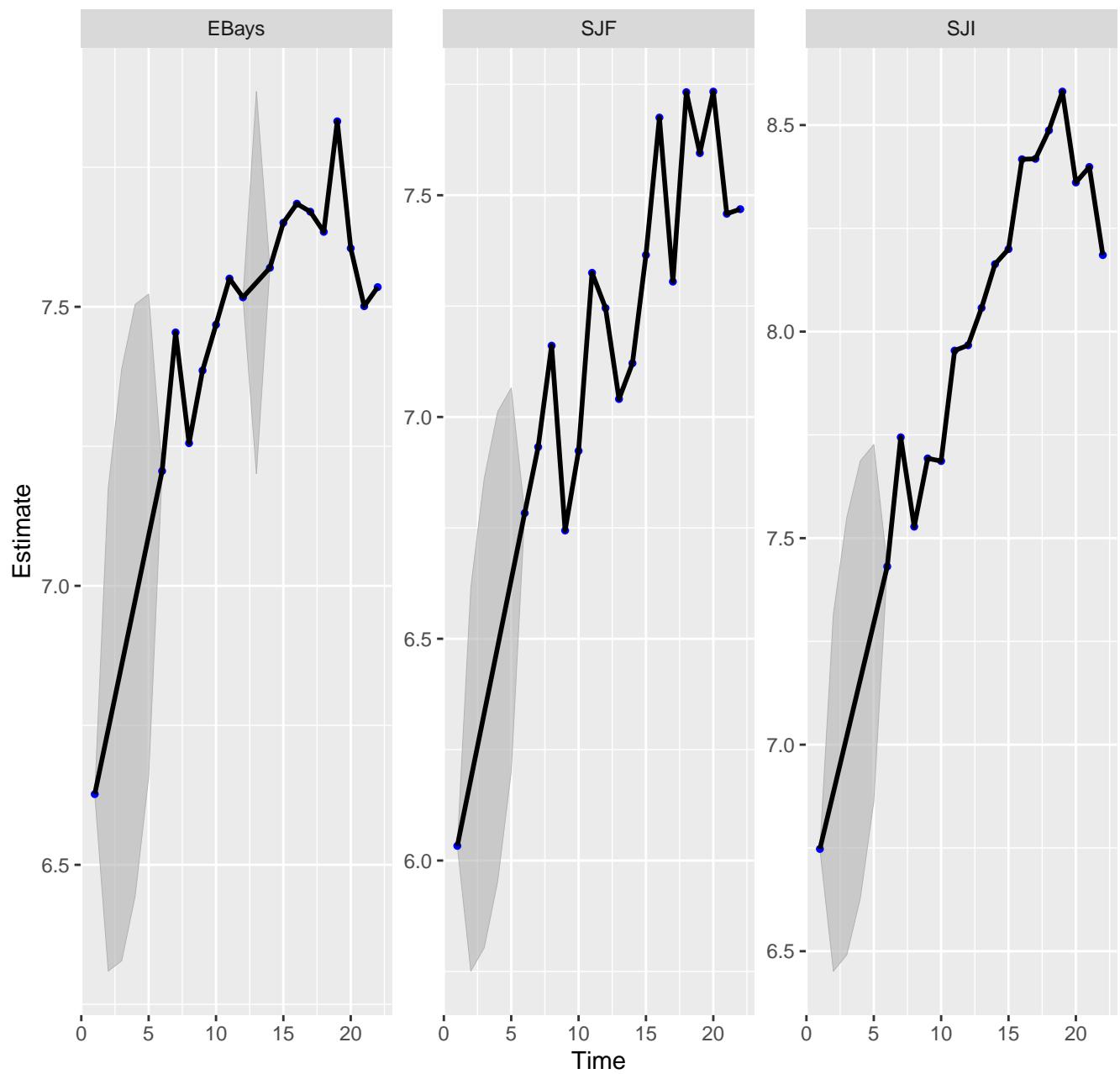
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

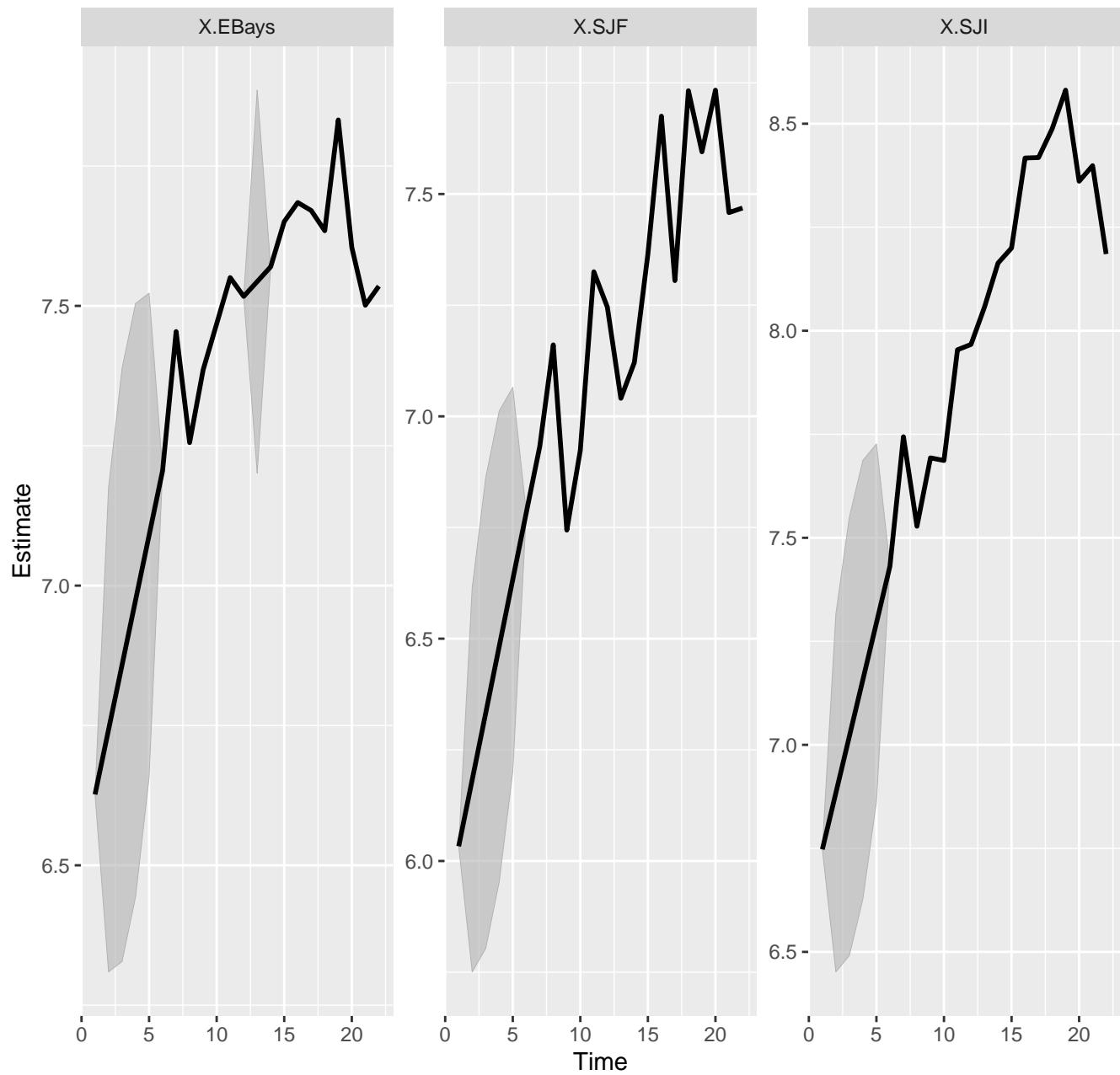
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

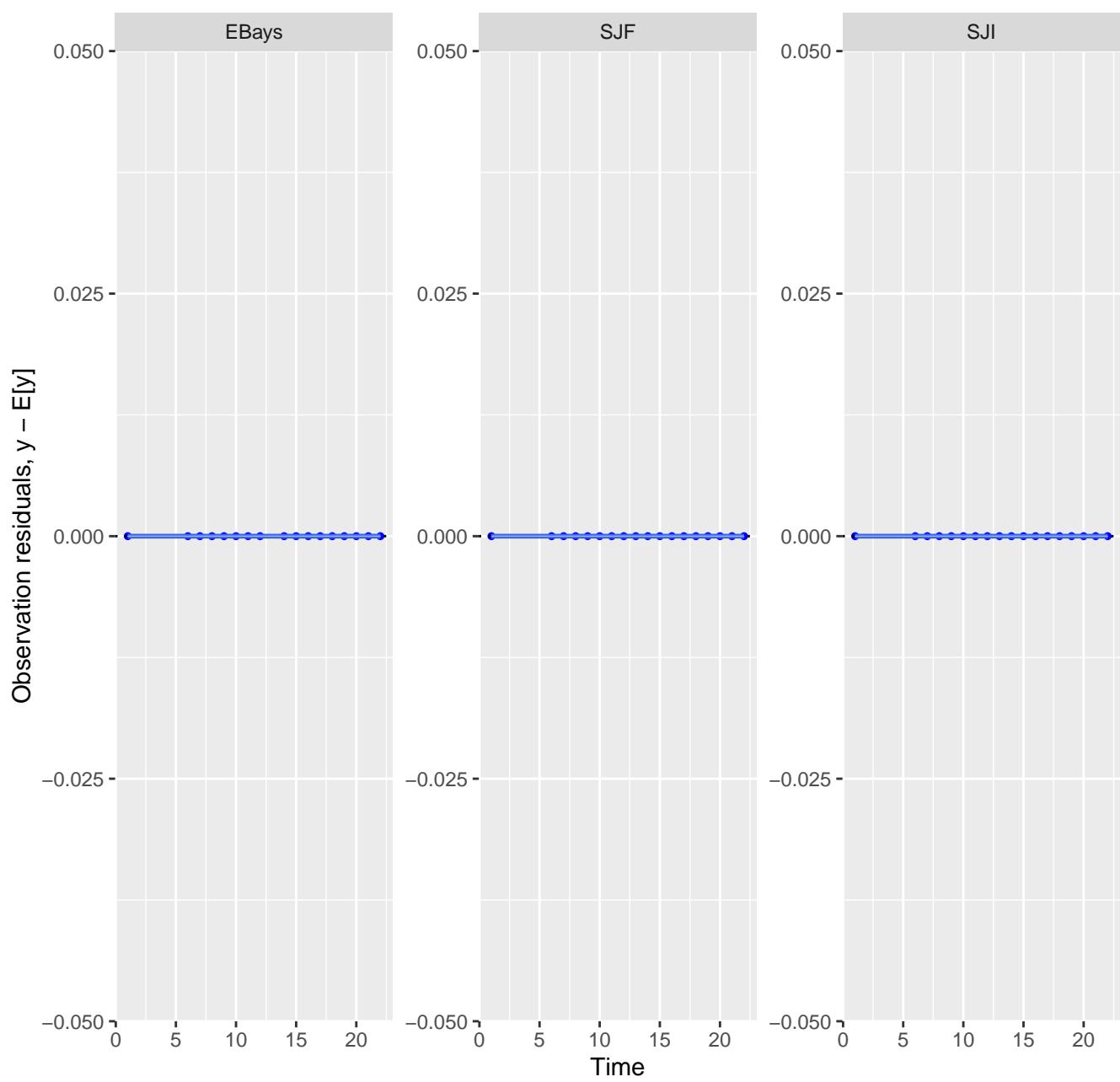
Model fitted Y + CI



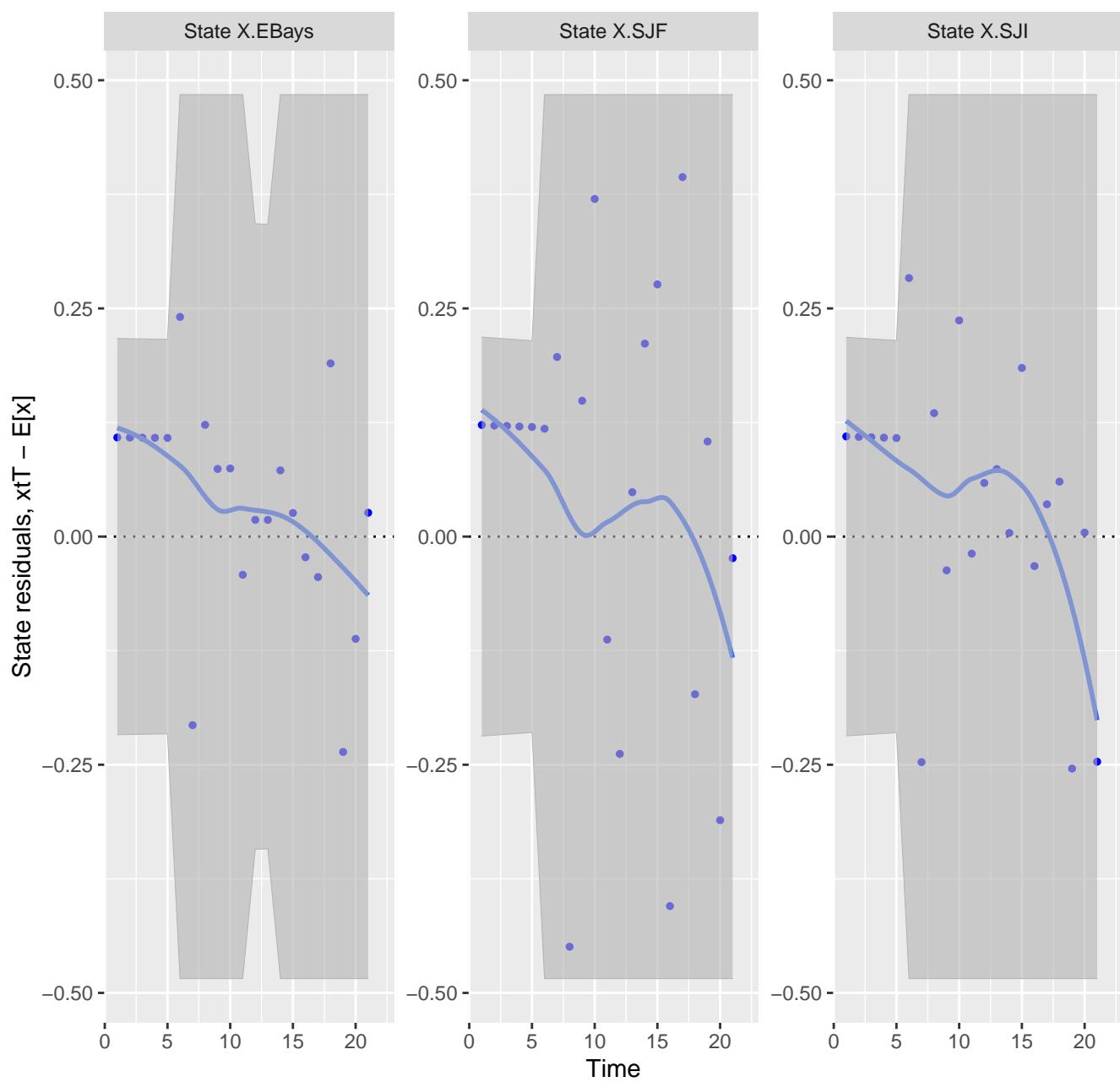
States



Model residuals

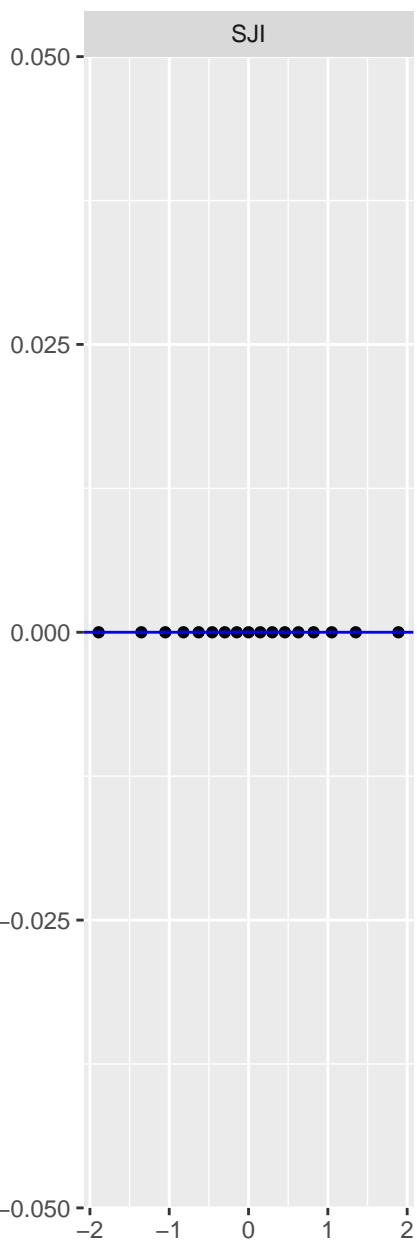
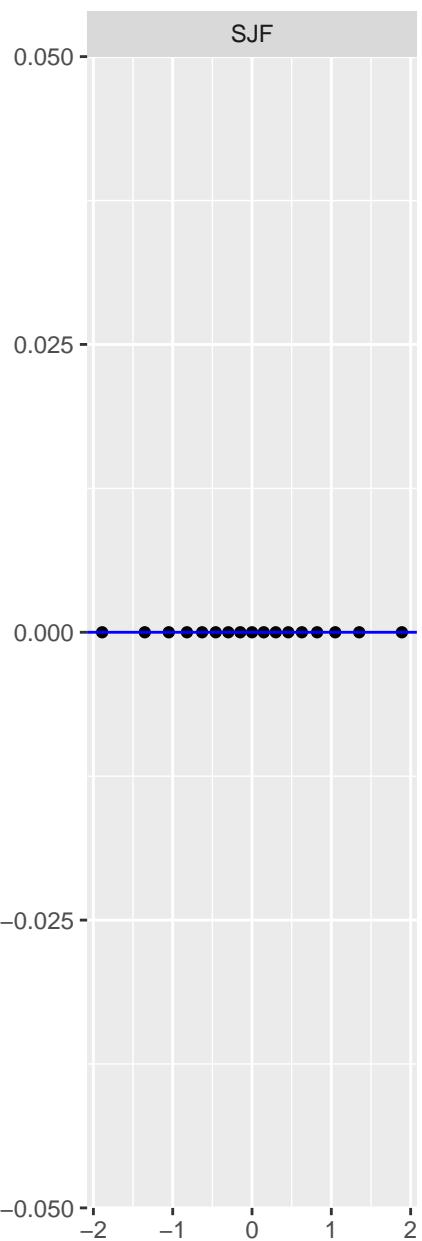
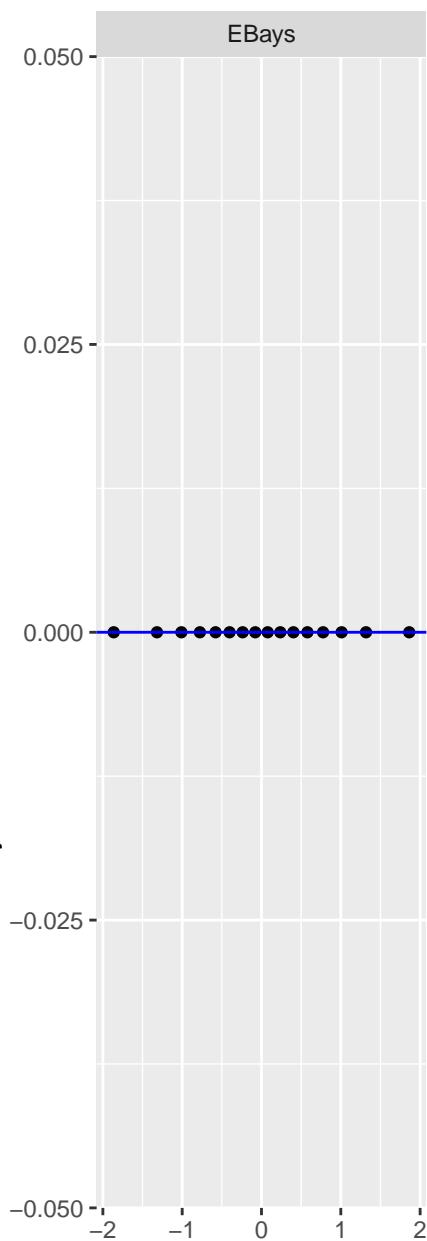


State residuals



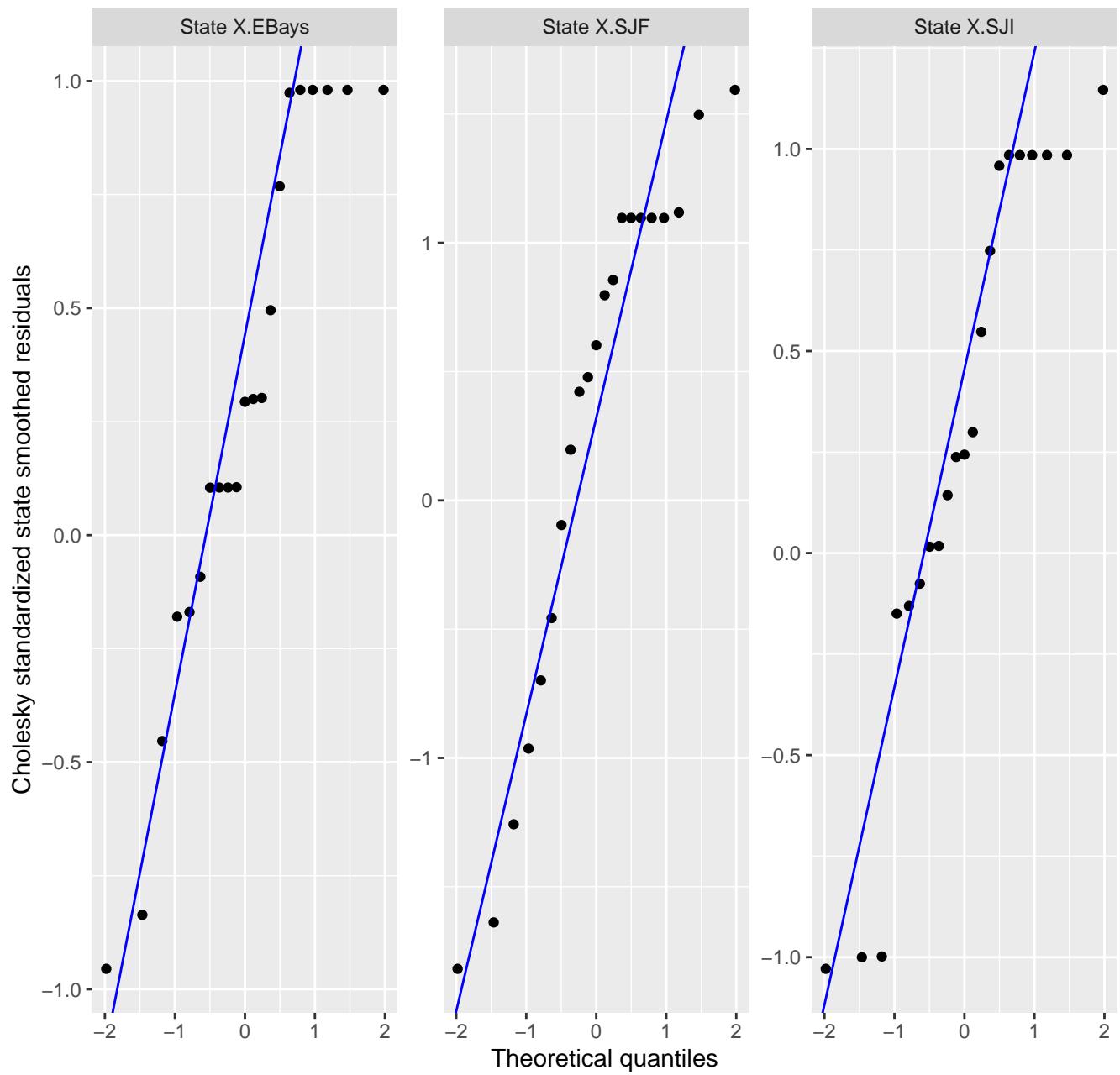
Model residuals normality test

Cholesky standardized model smoothed residuals

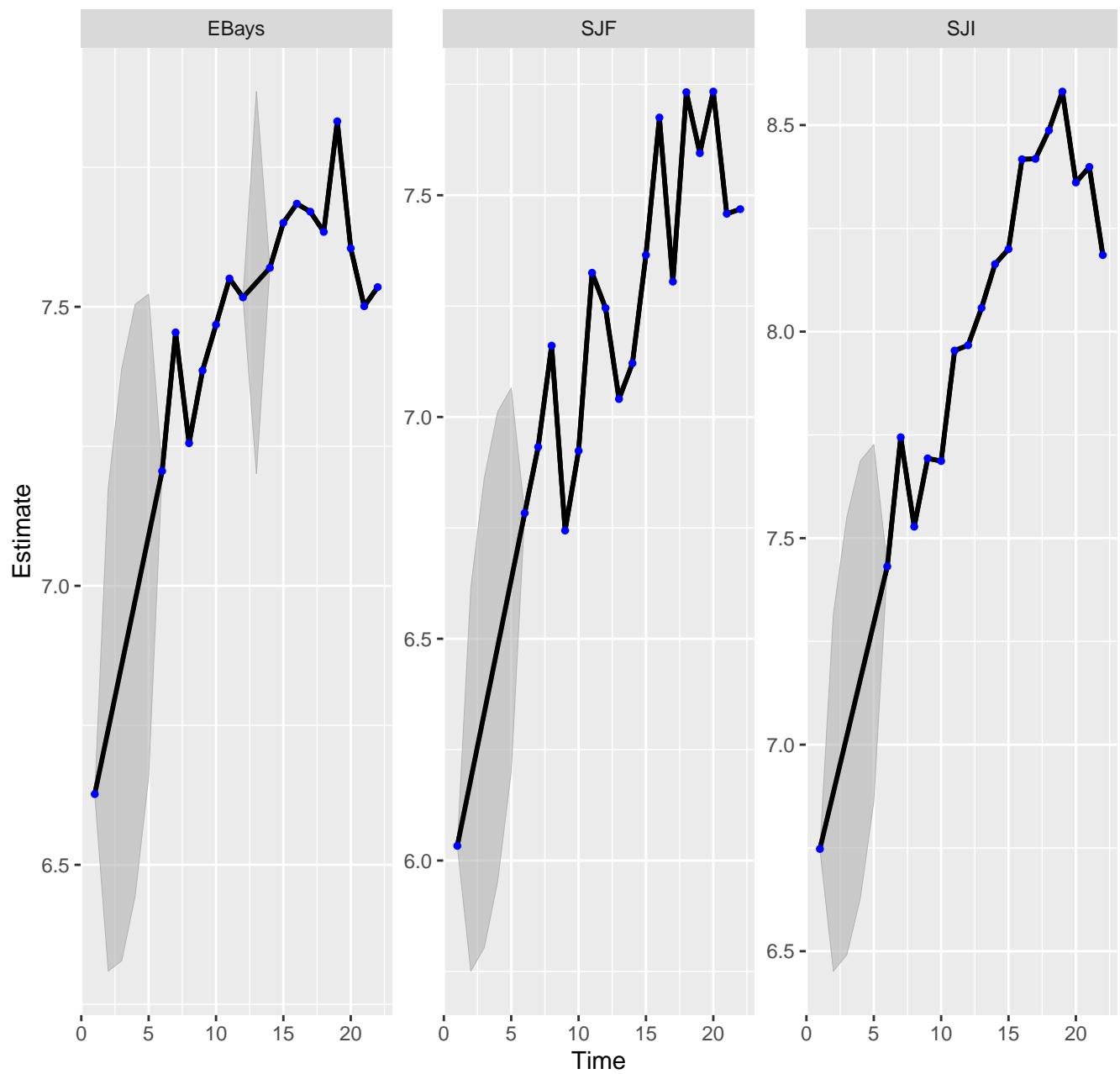


Theoretical quantiles

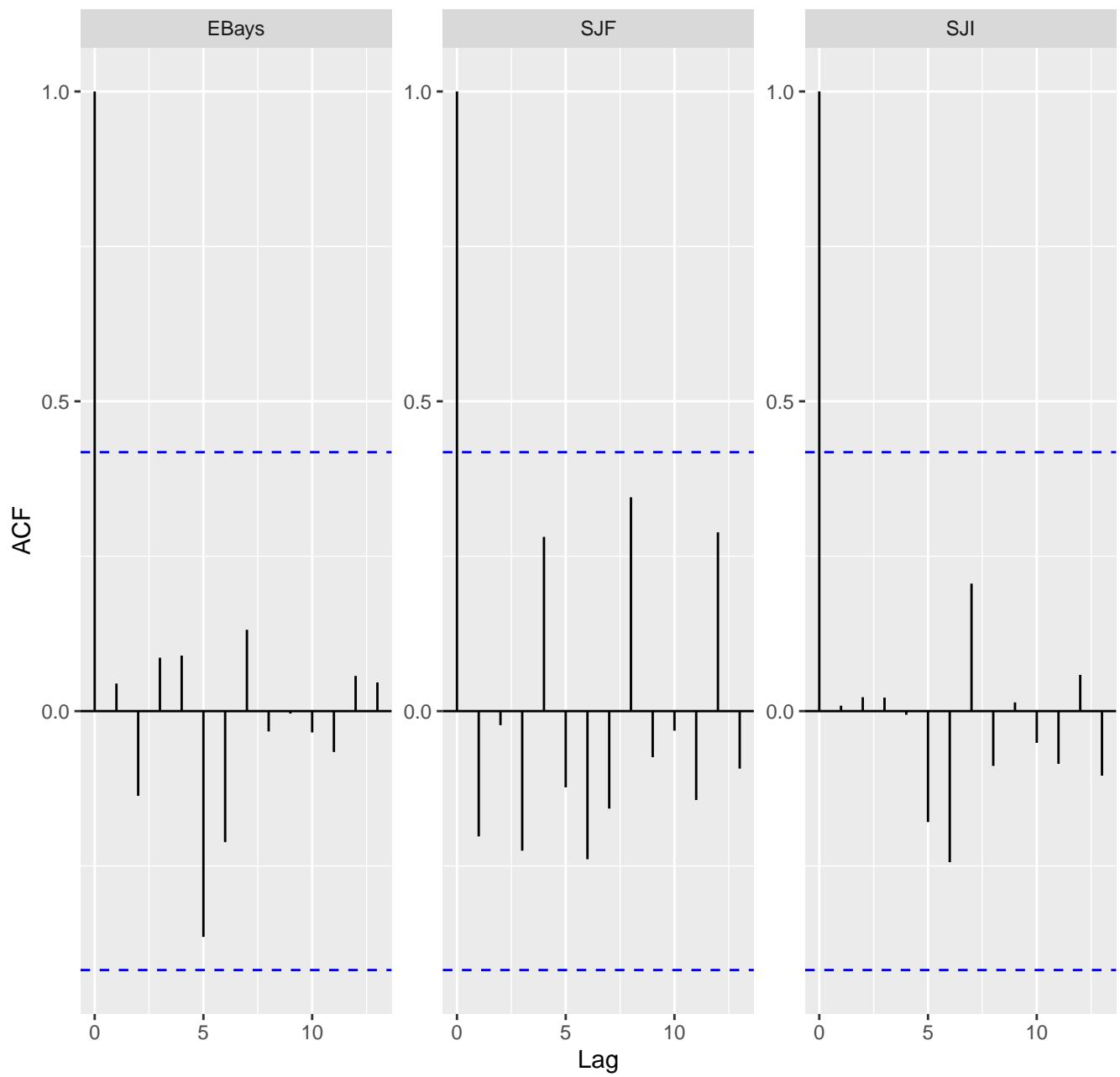
State residuals normality test

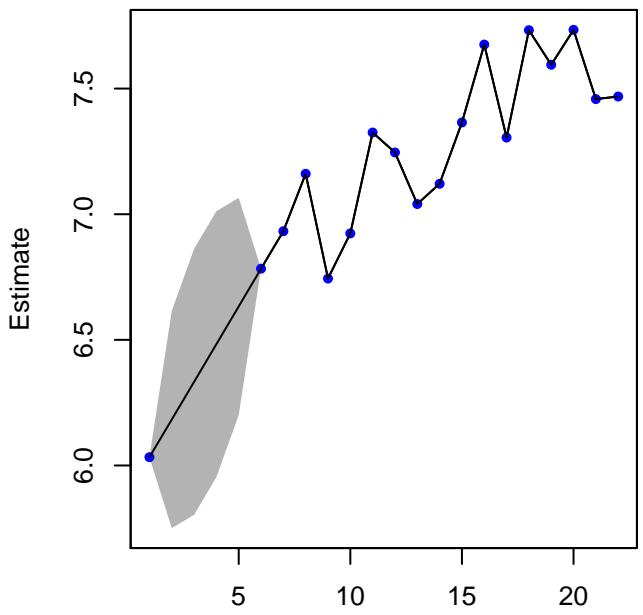
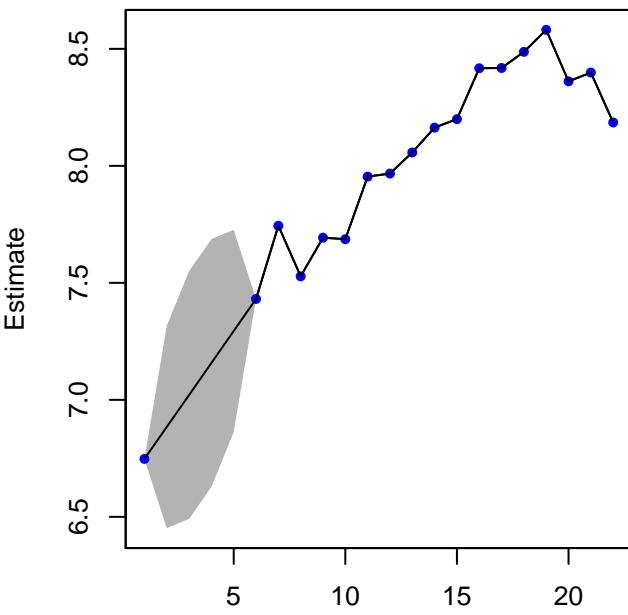
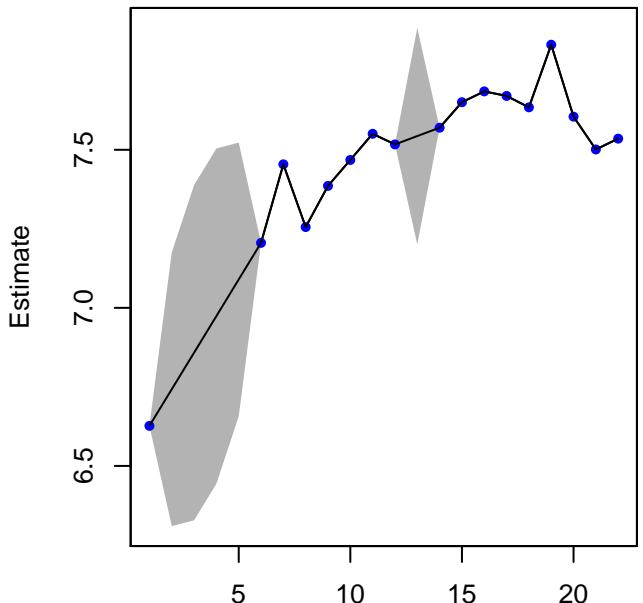


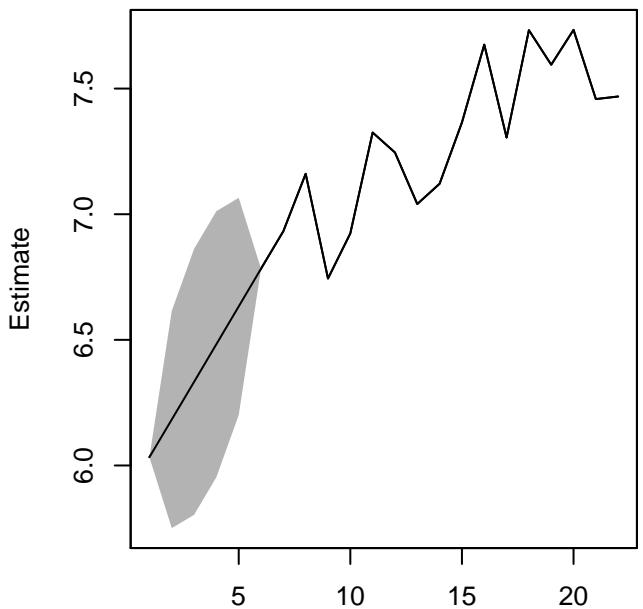
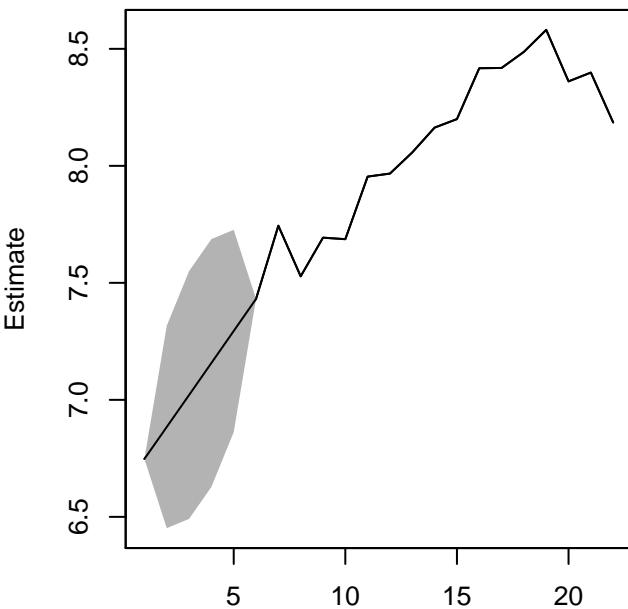
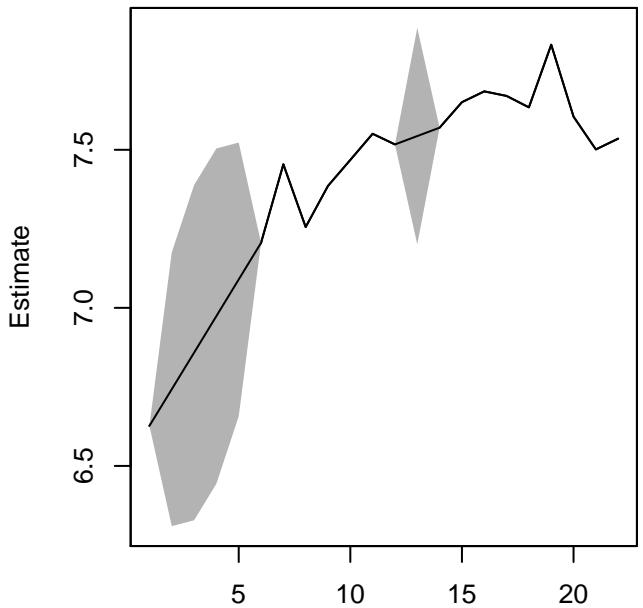
Expected value of Y conditioned on data



Model innovations residuals ACF

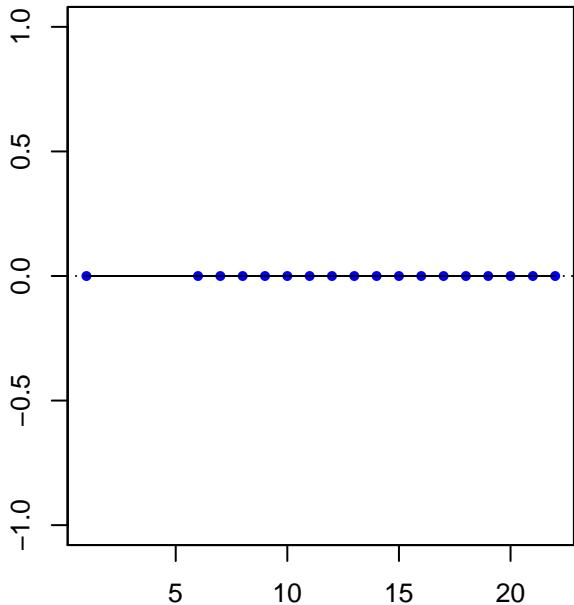


SJF + CI**SJI + CI****EBays + CI**

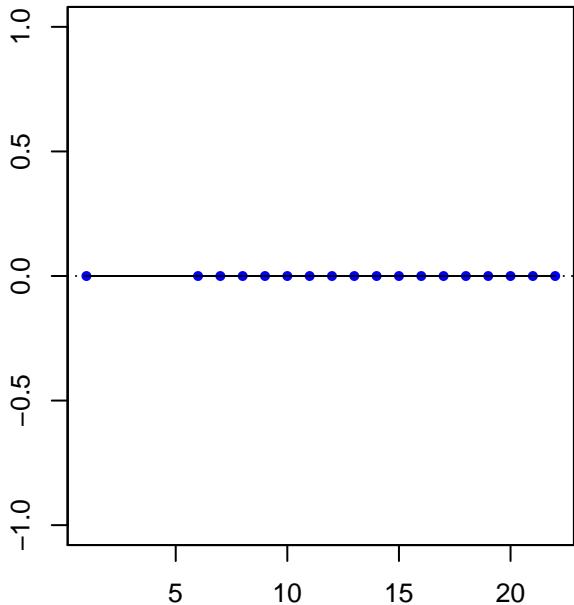
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

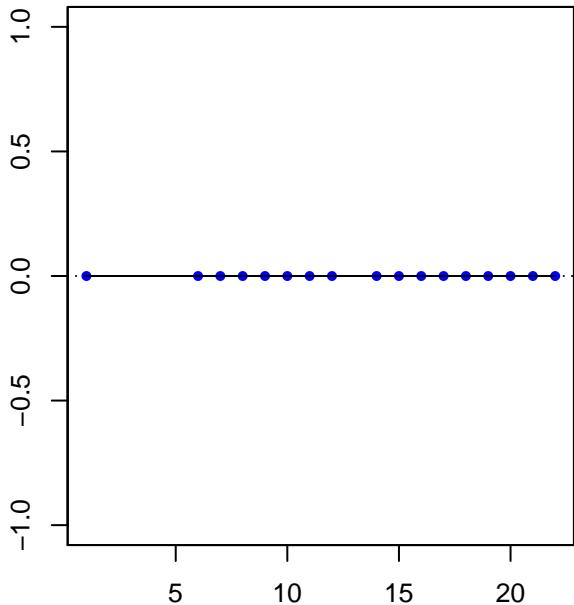
SJF



SJI

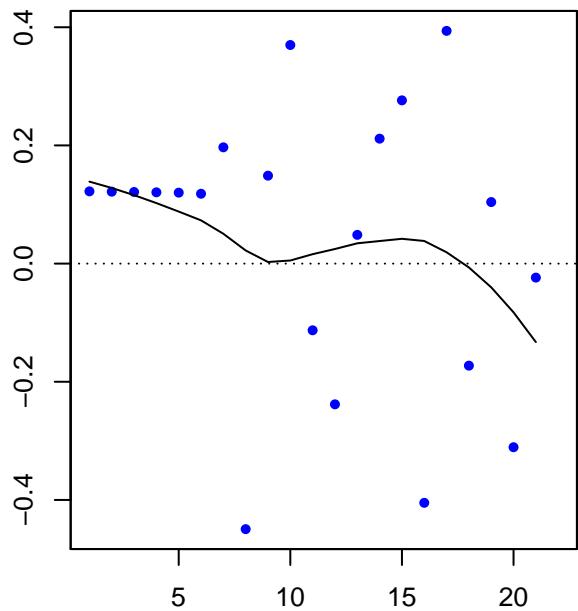


EBays

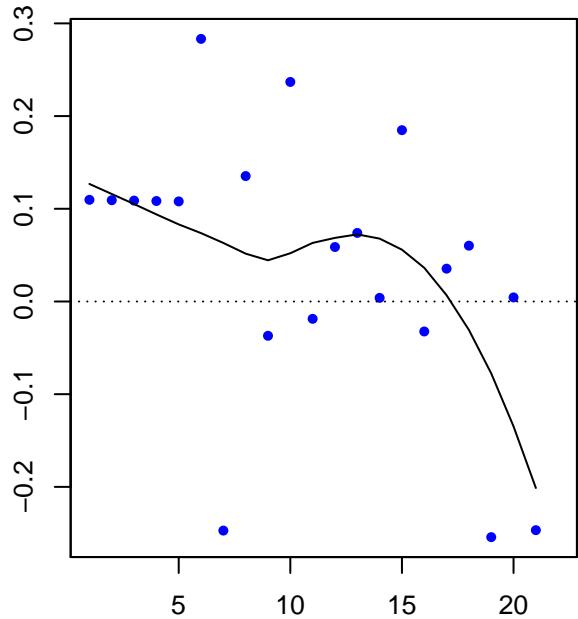


State residuals, $x_{tT} - E[x]$

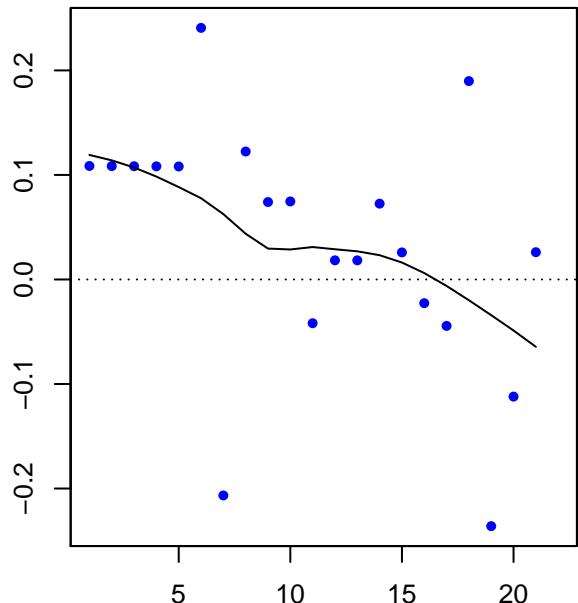
State X.SJF

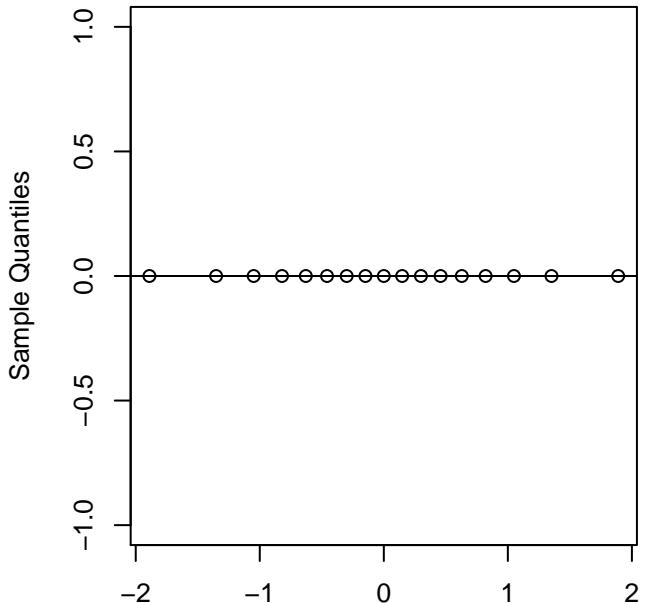
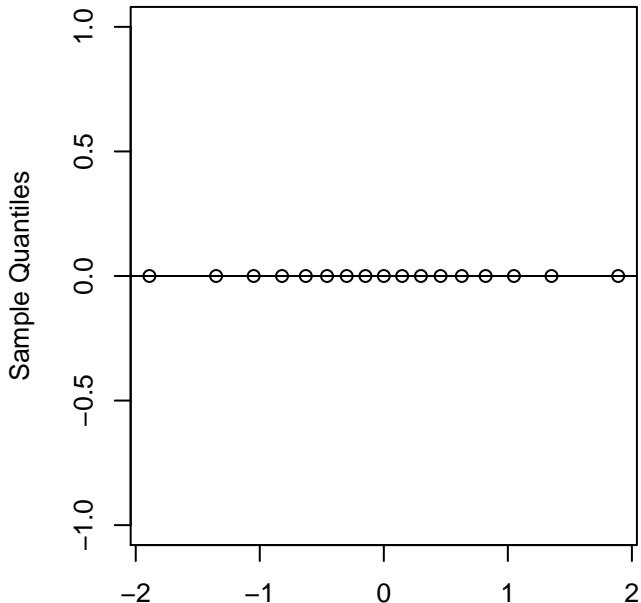
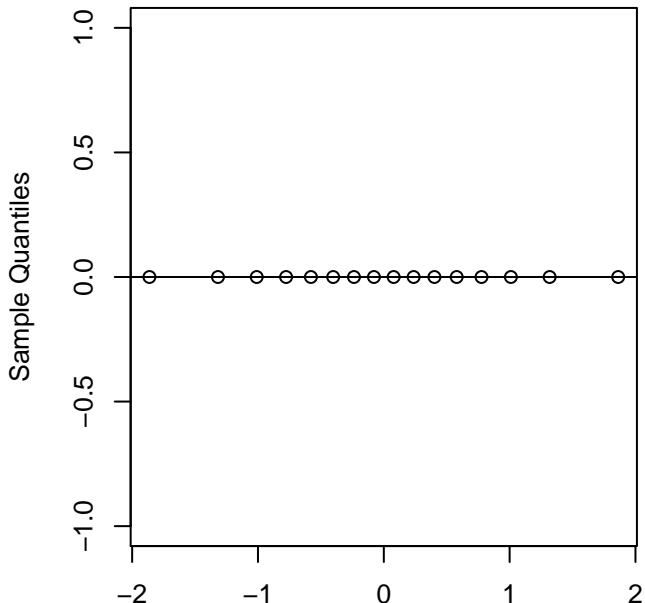


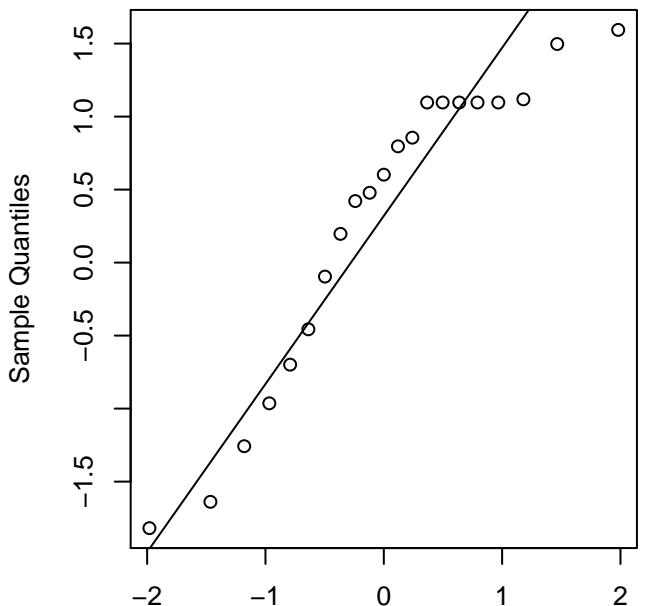
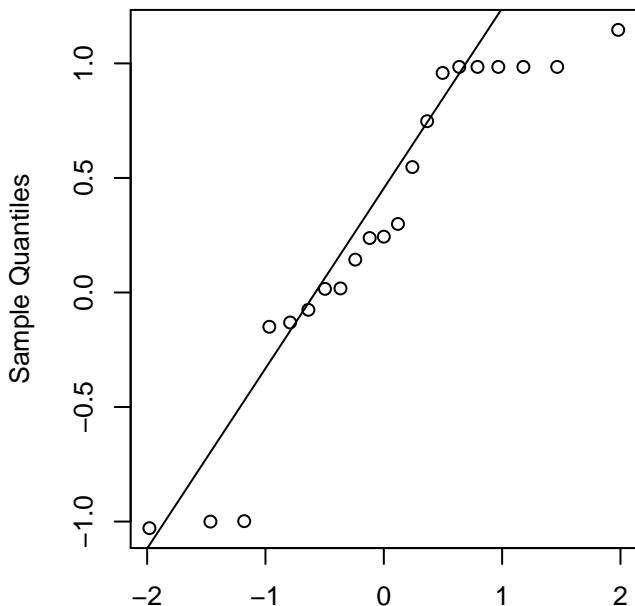
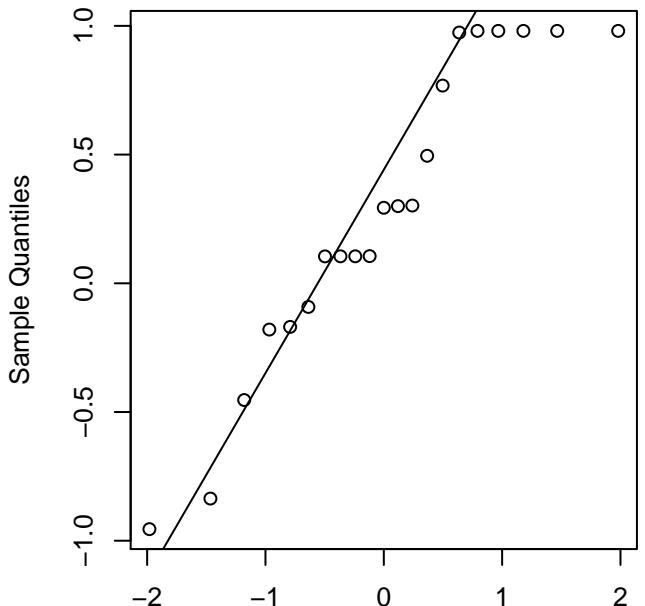
State X.SJI

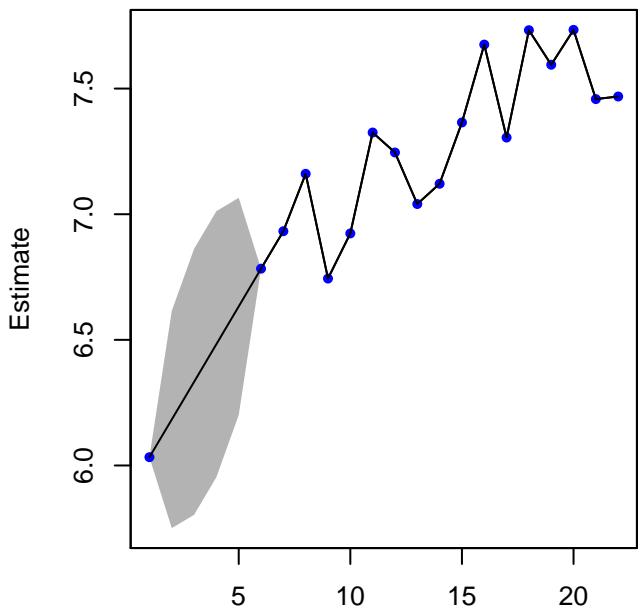
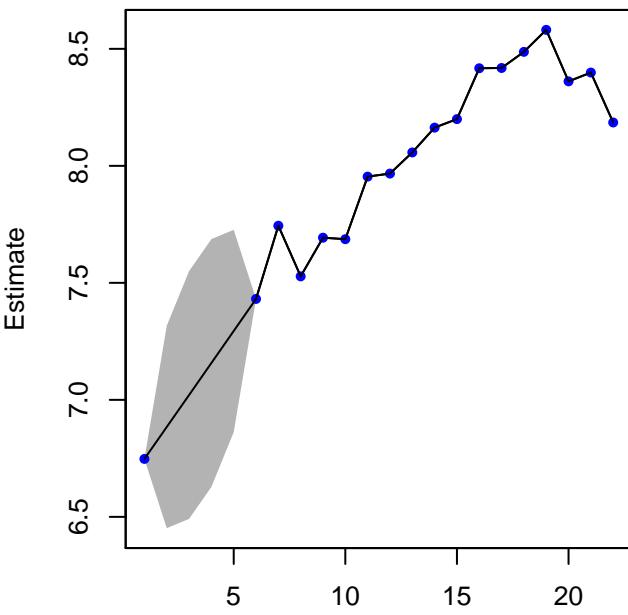
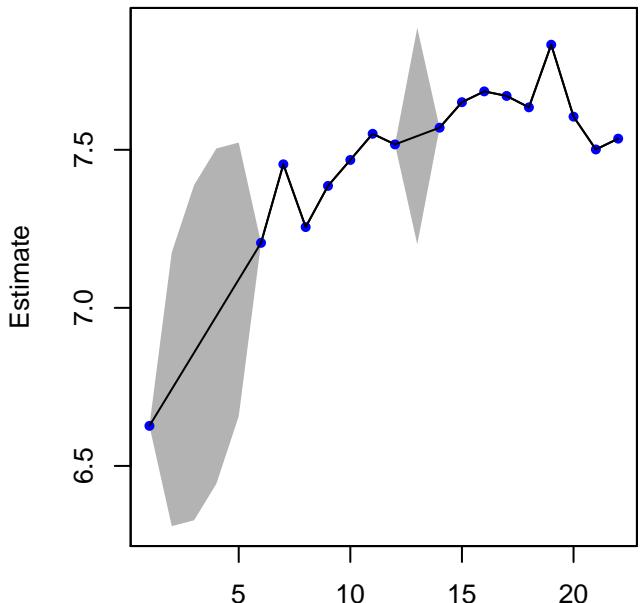


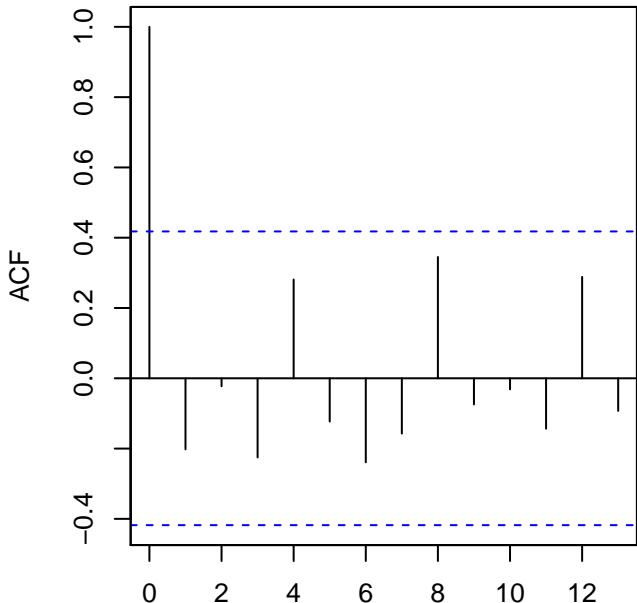
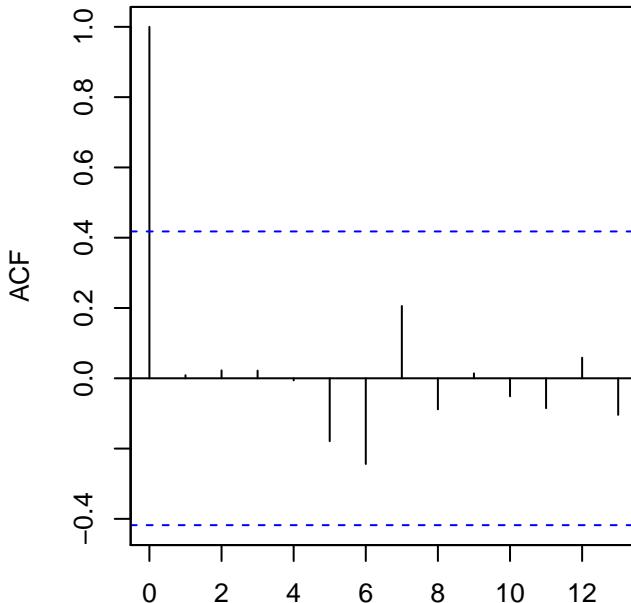
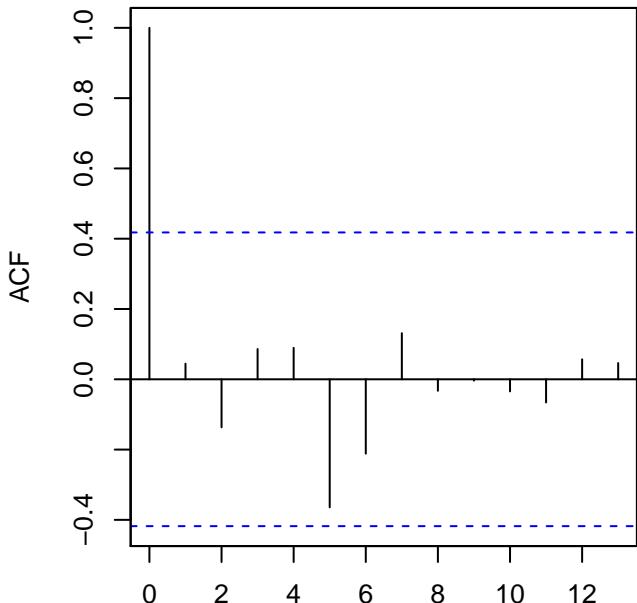
State X.EBays



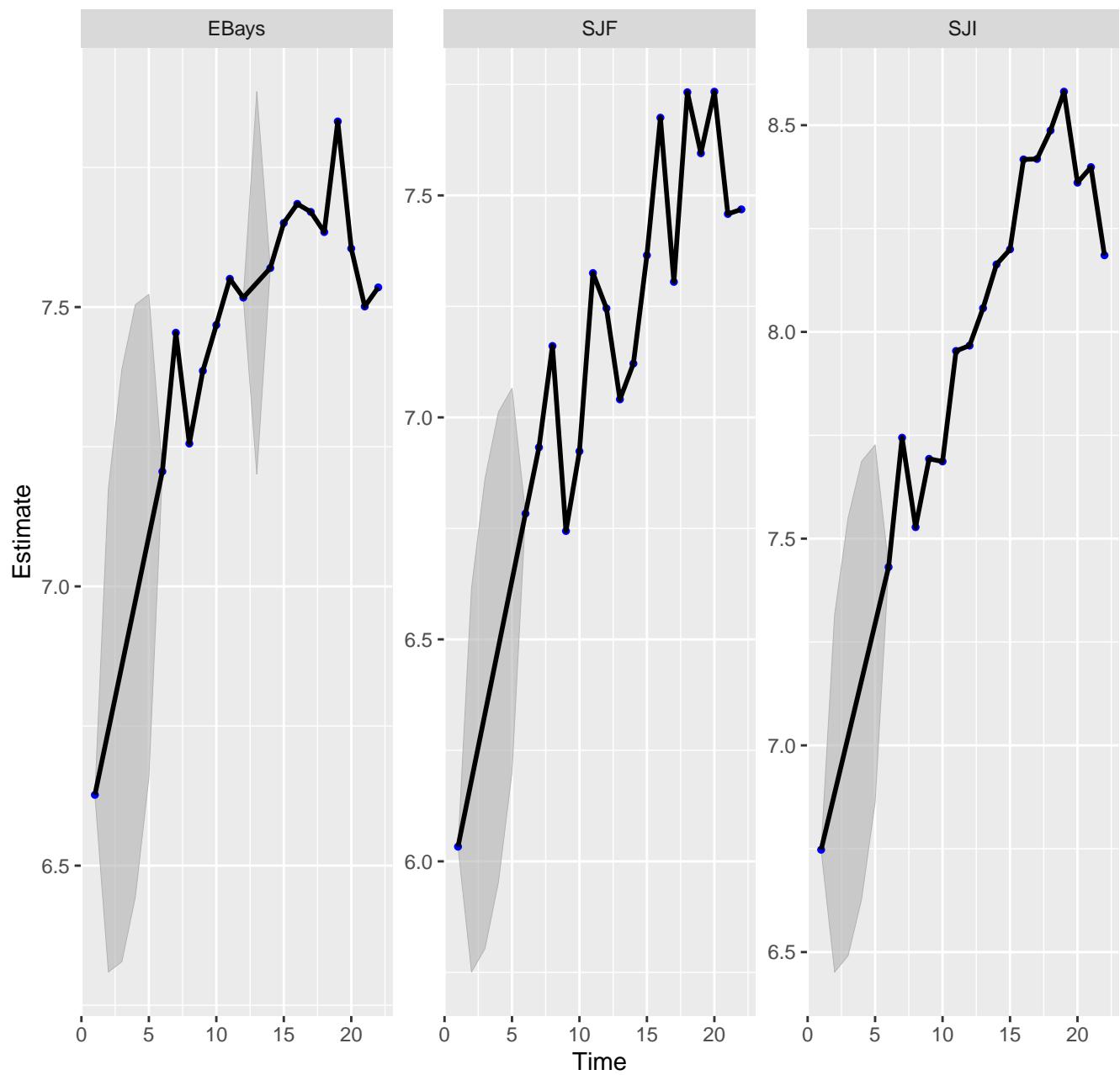
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

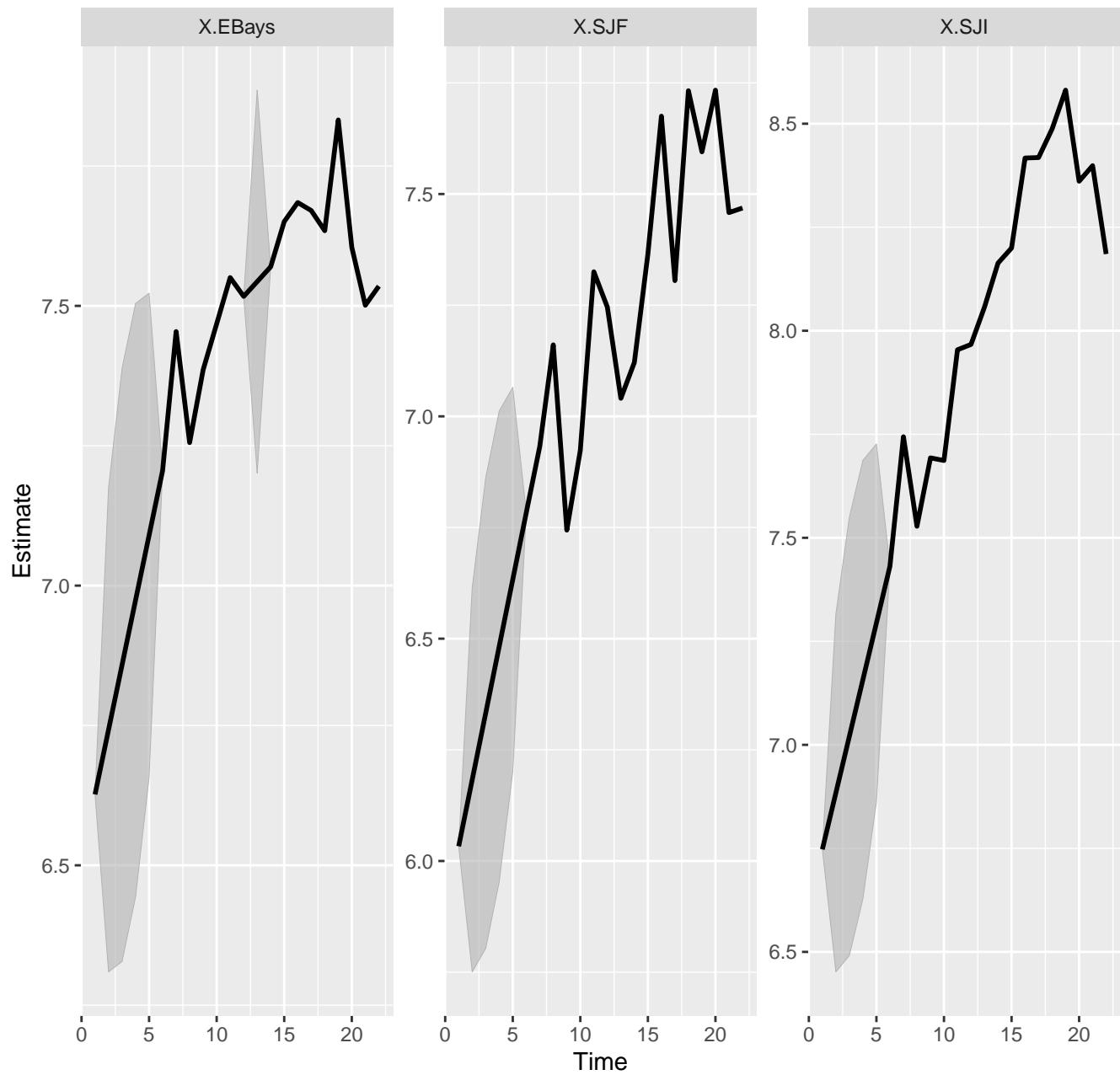
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

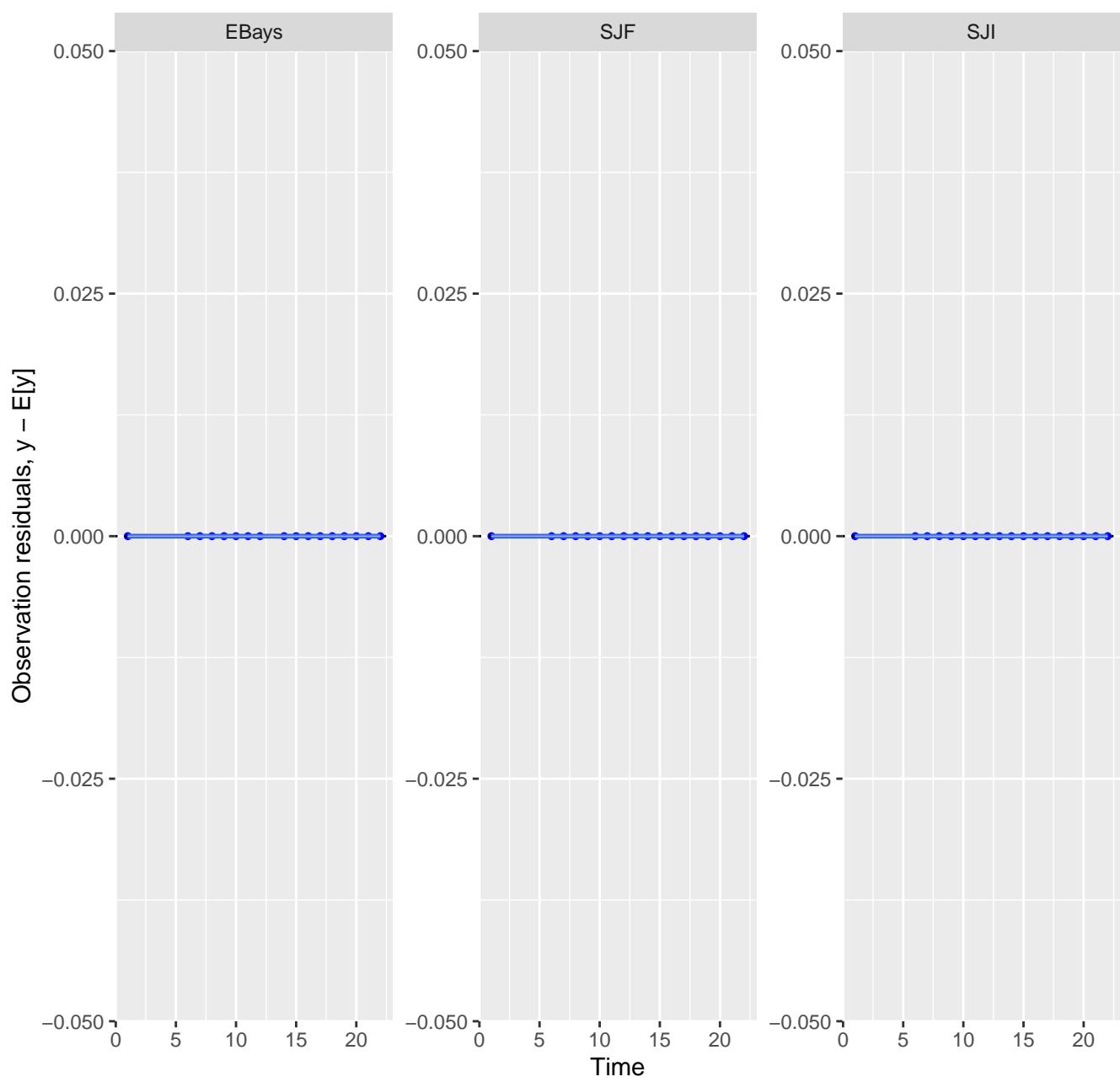
Model fitted Y + CI



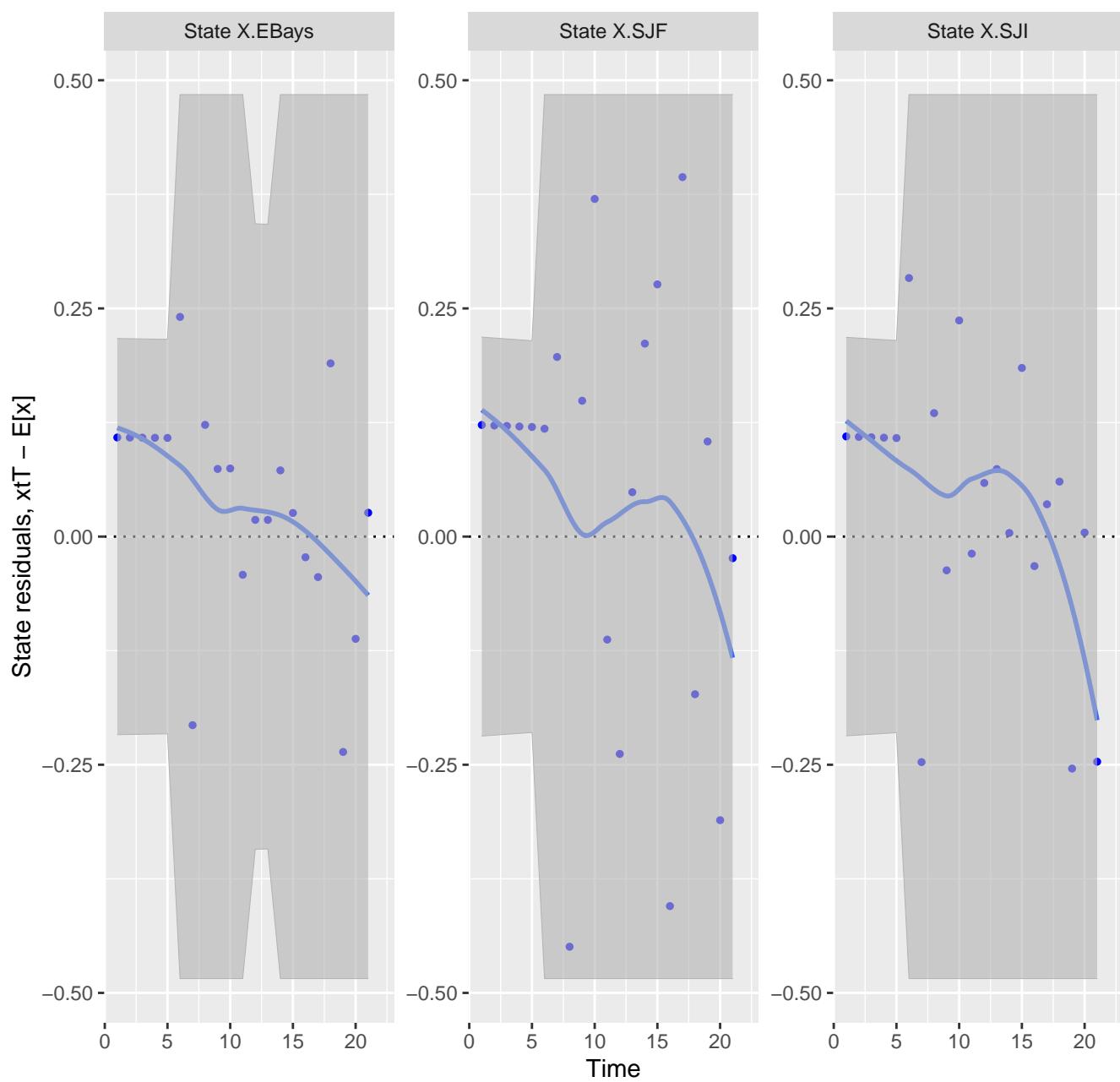
States



Model residuals

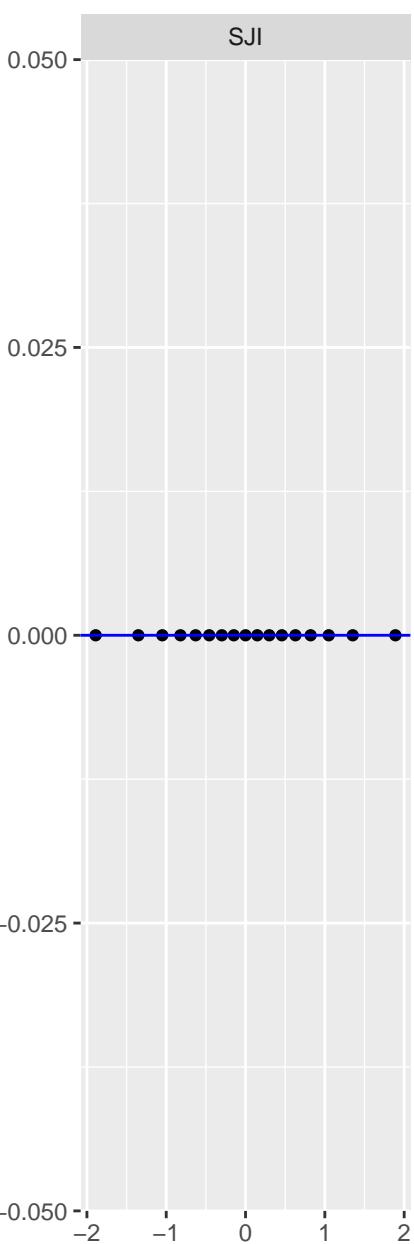
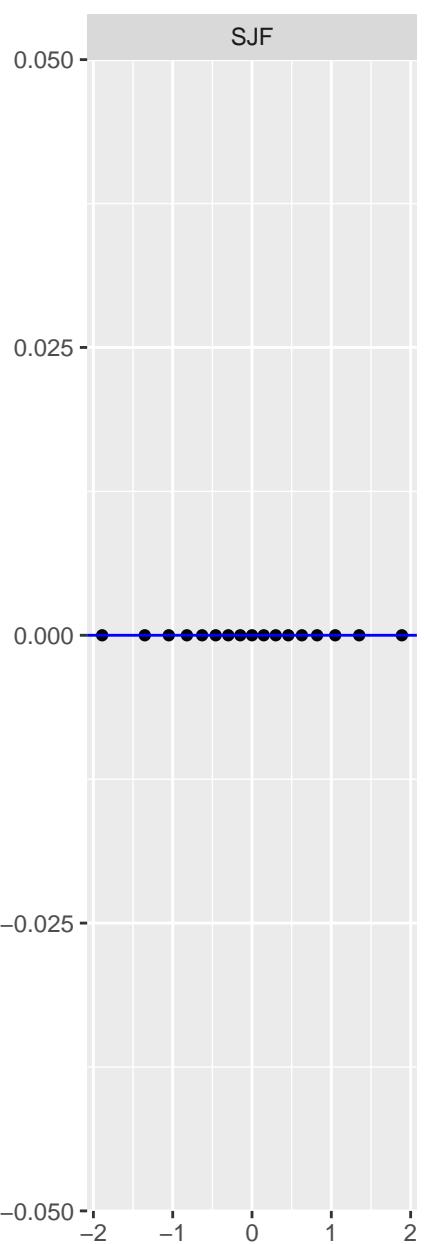
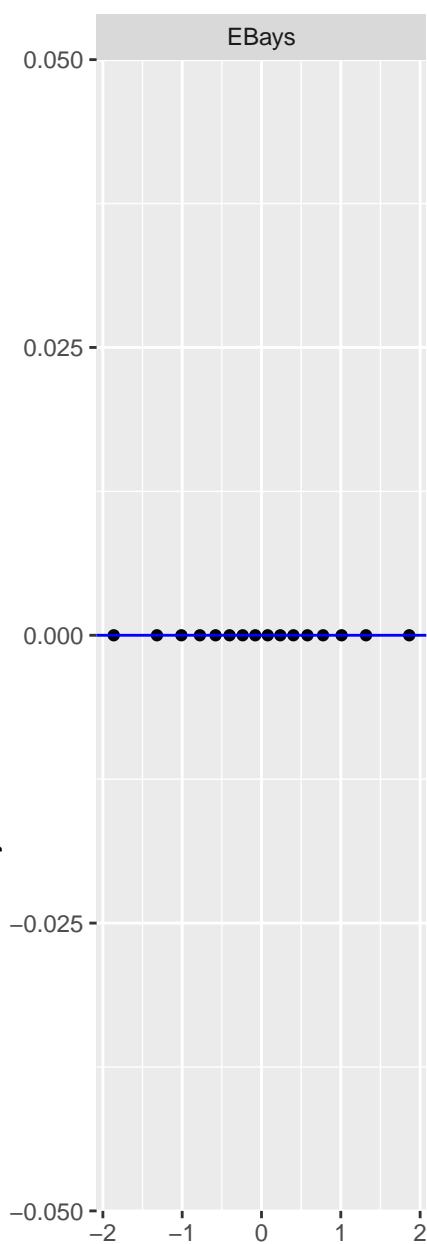


State residuals



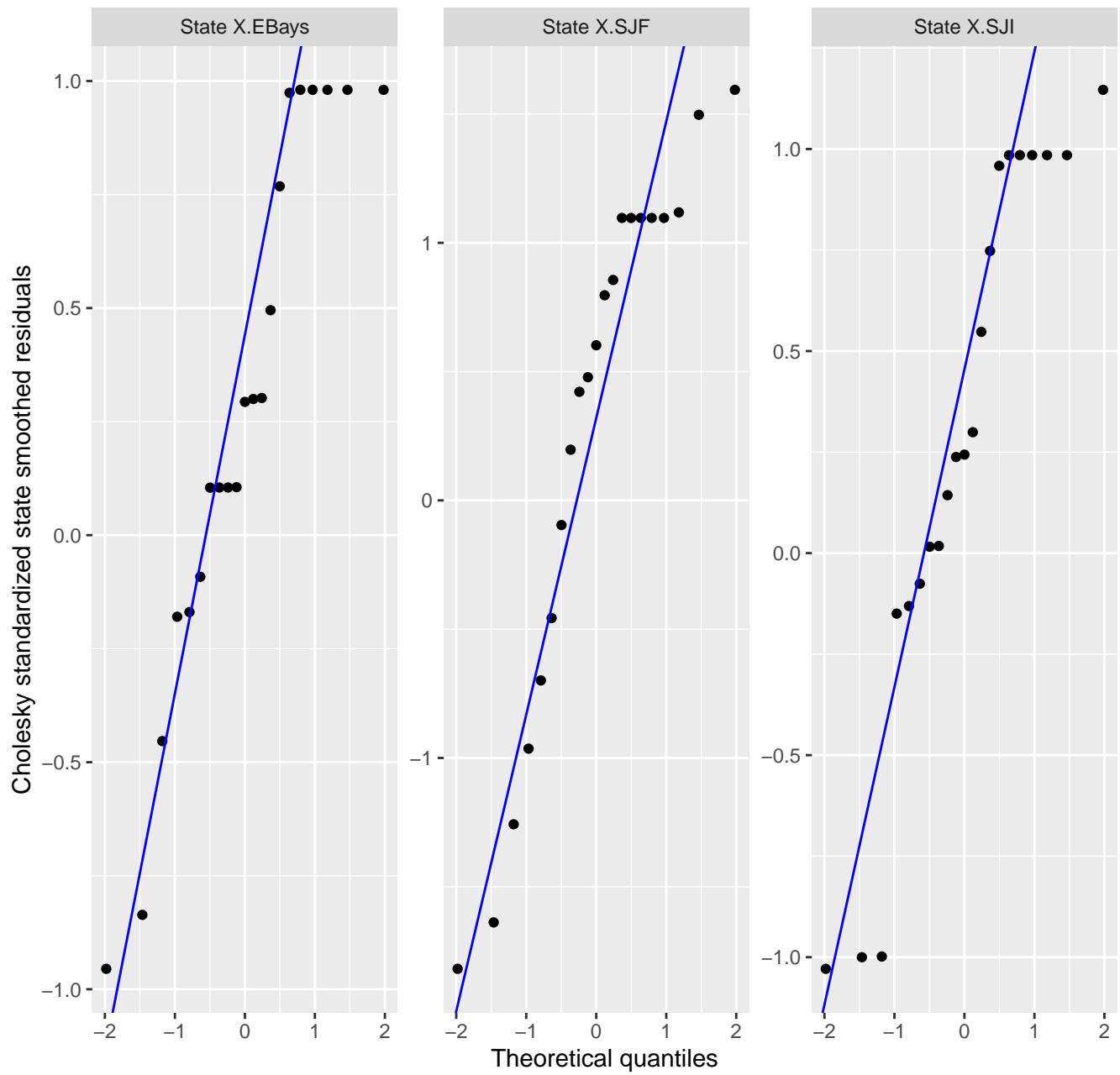
Model residuals normality test

Cholesky standardized model smoothed residuals

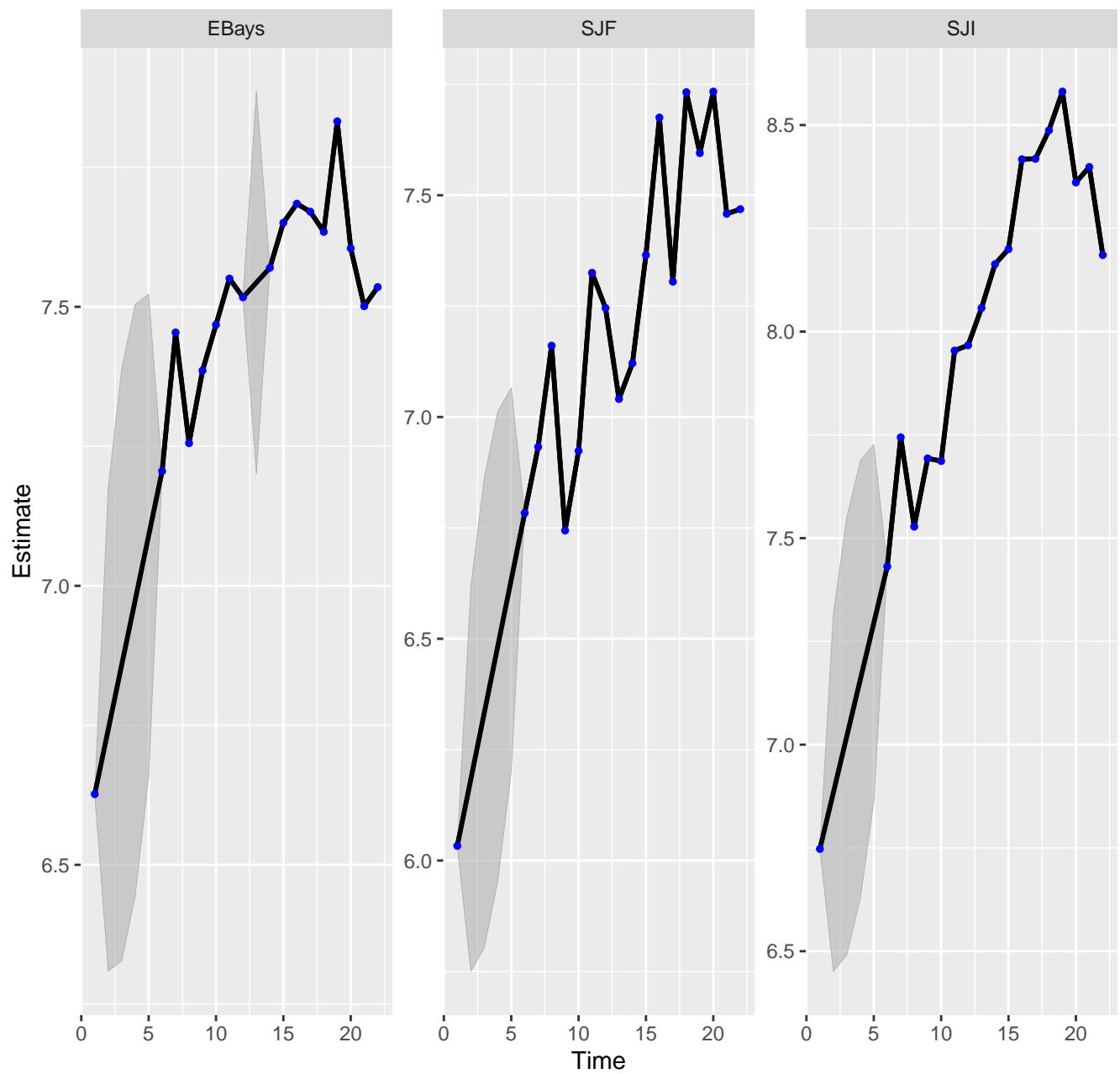


Theoretical quantiles

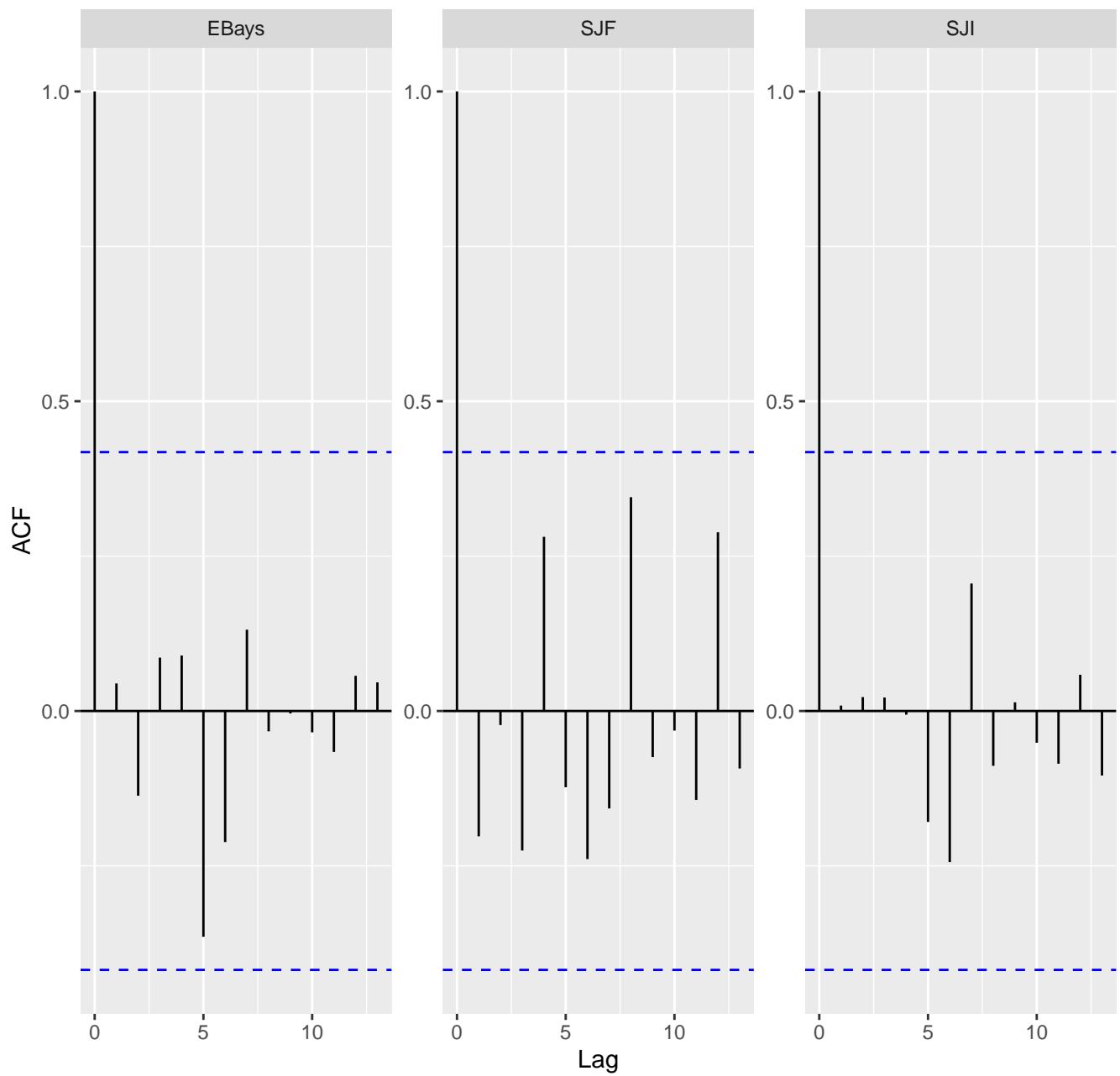
State residuals normality test

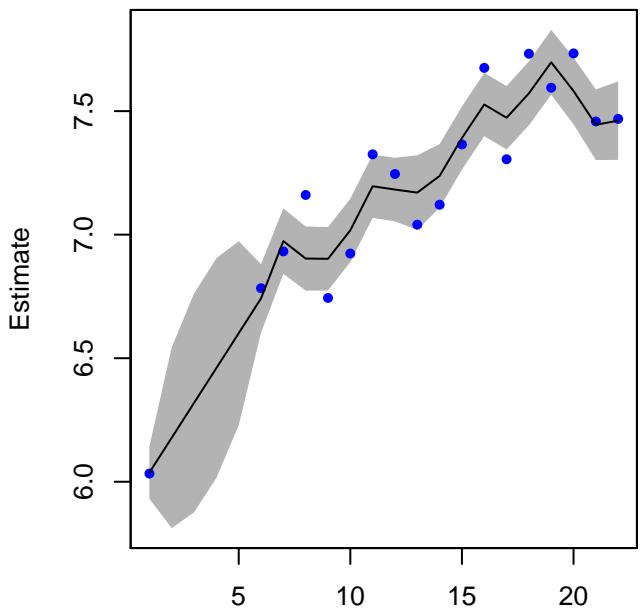
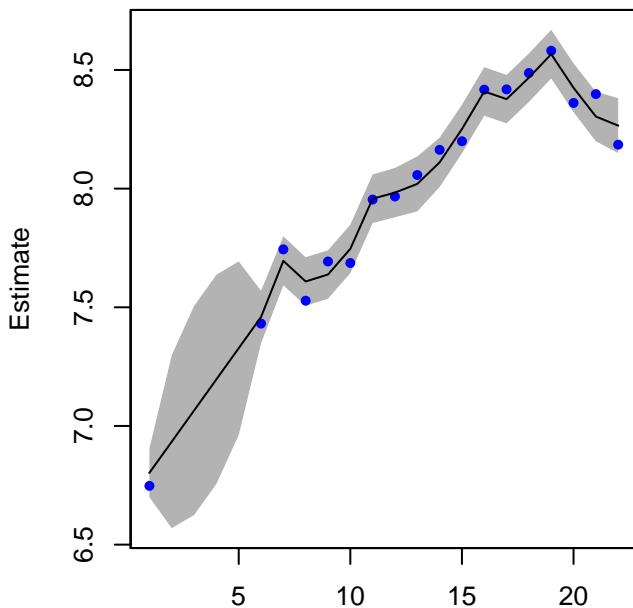
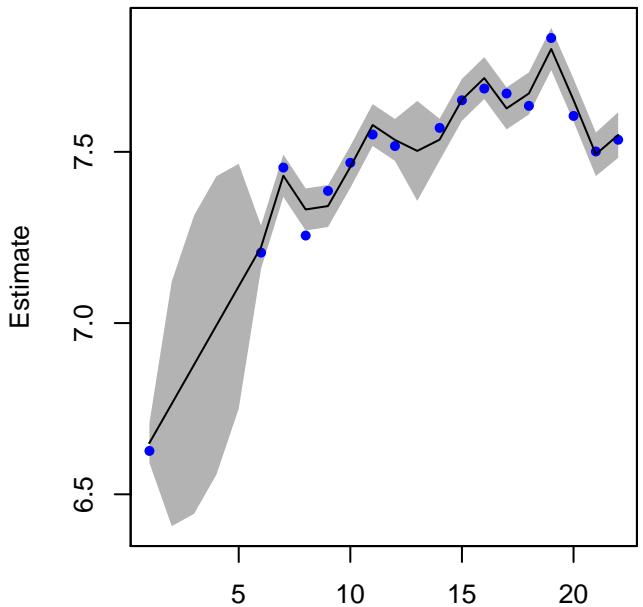


Expected value of Y conditioned on data

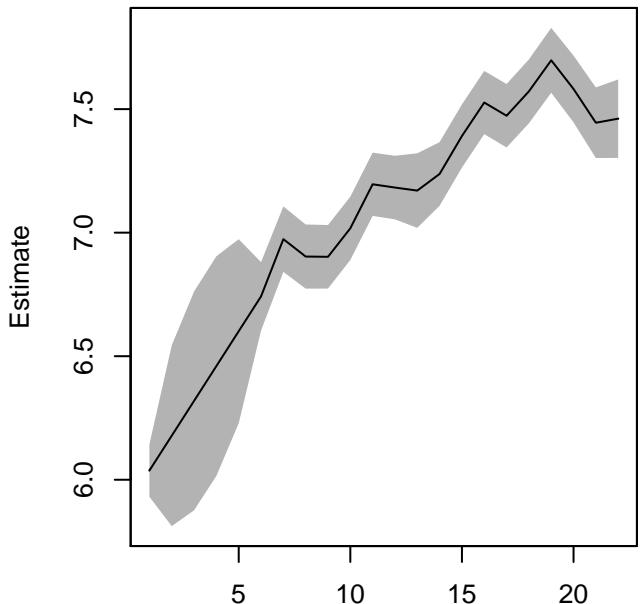


Model innovations residuals ACF

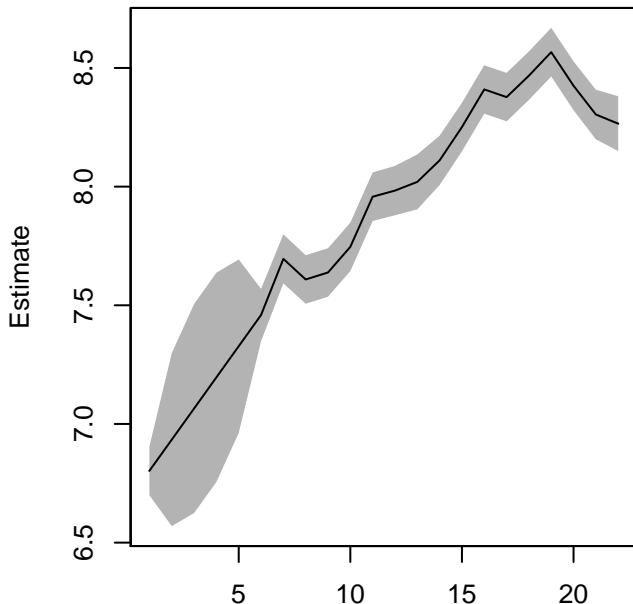


SJF + CI**SJI + CI****EBays + CI**

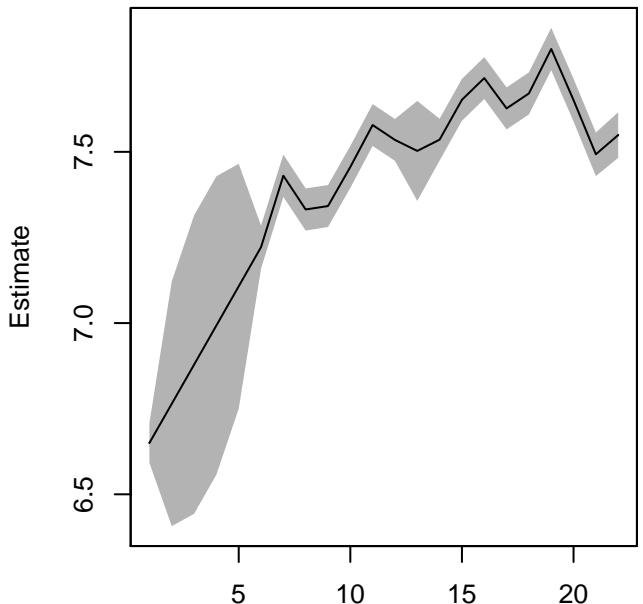
State X.SJF

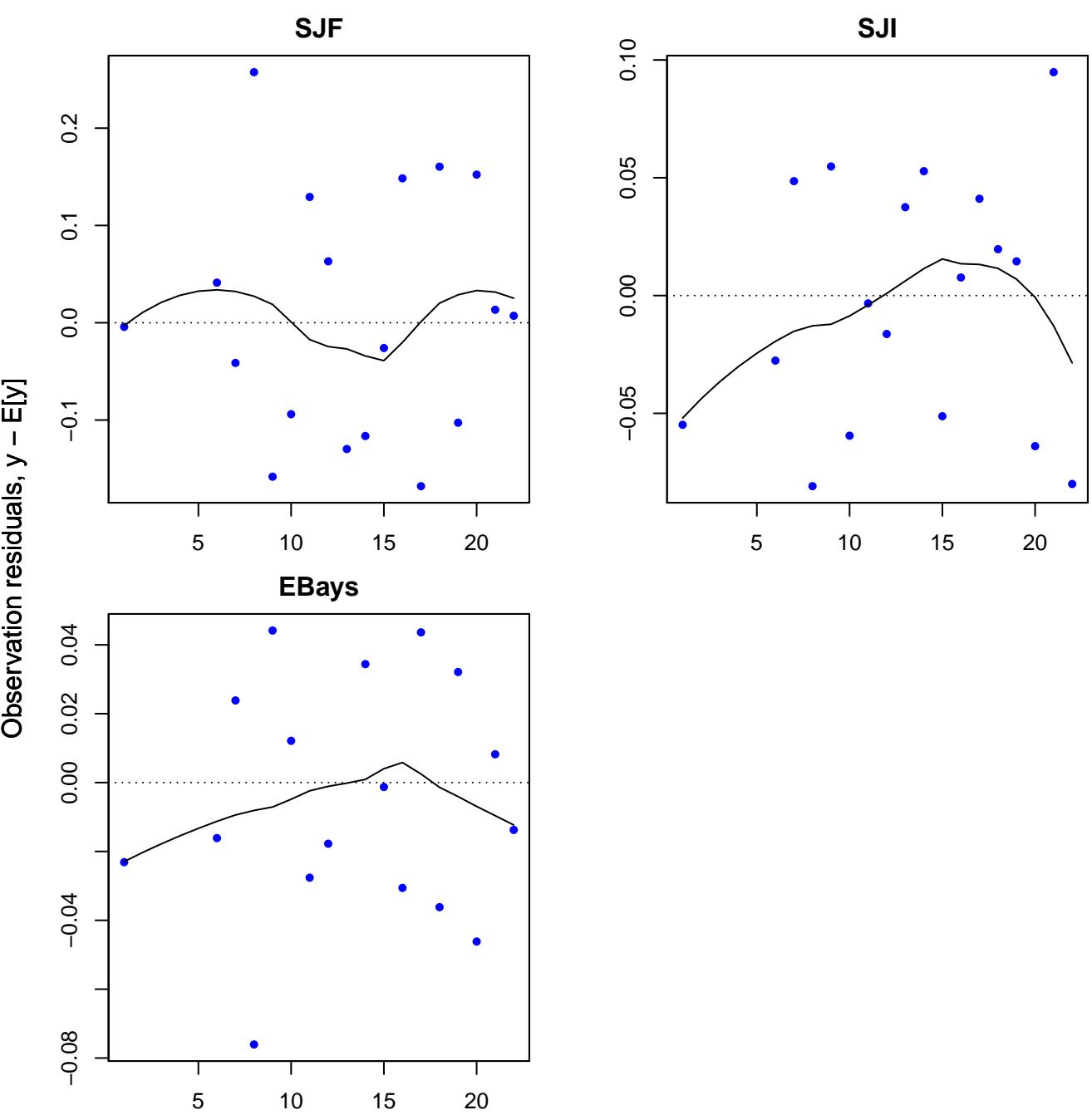


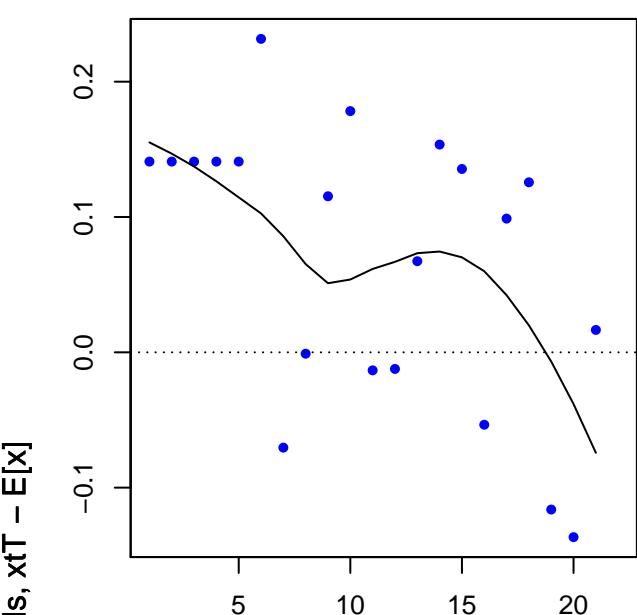
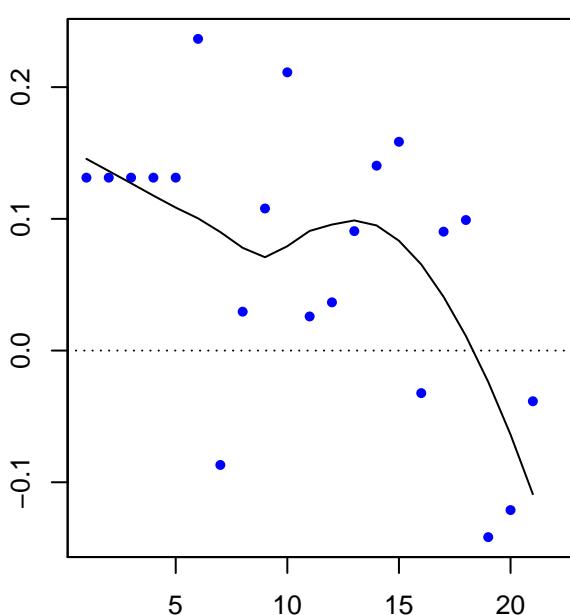
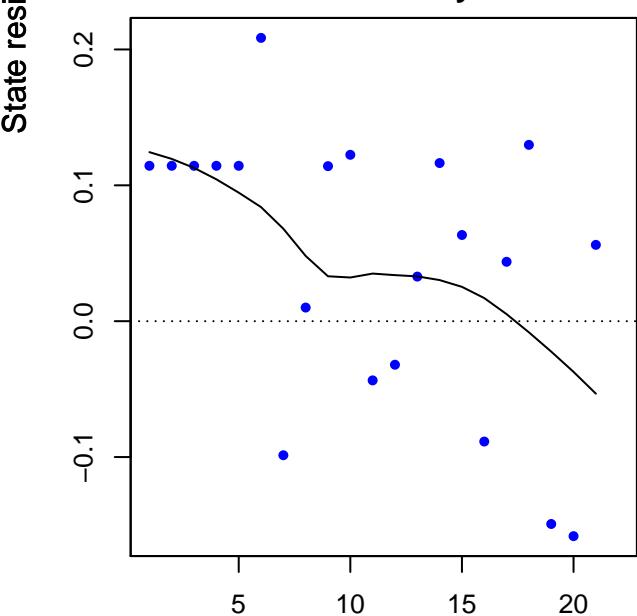
State X.SJI

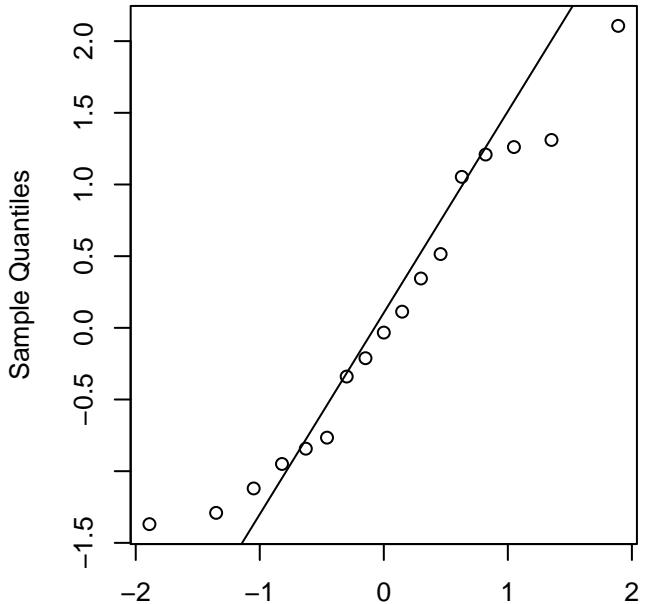
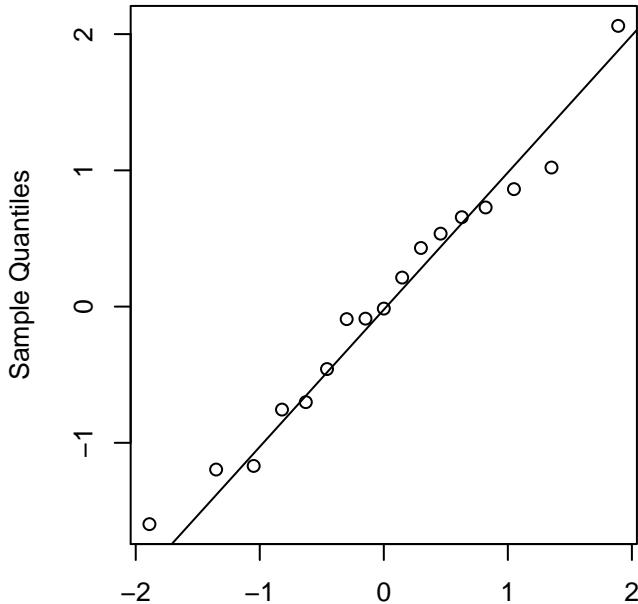
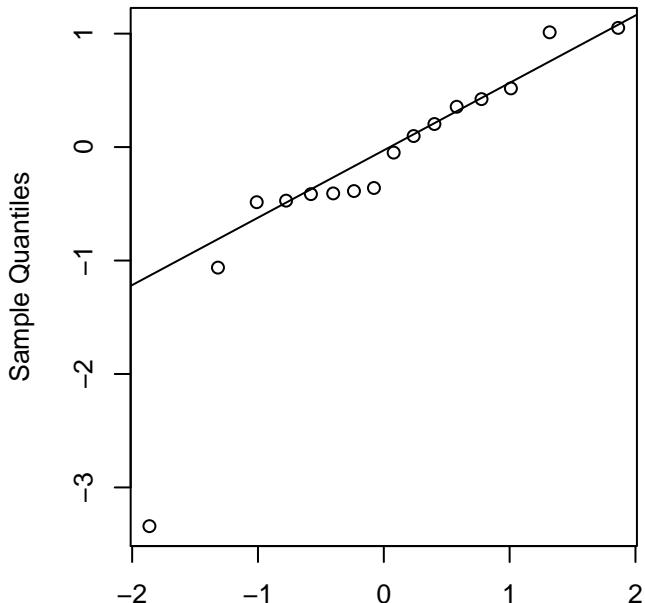


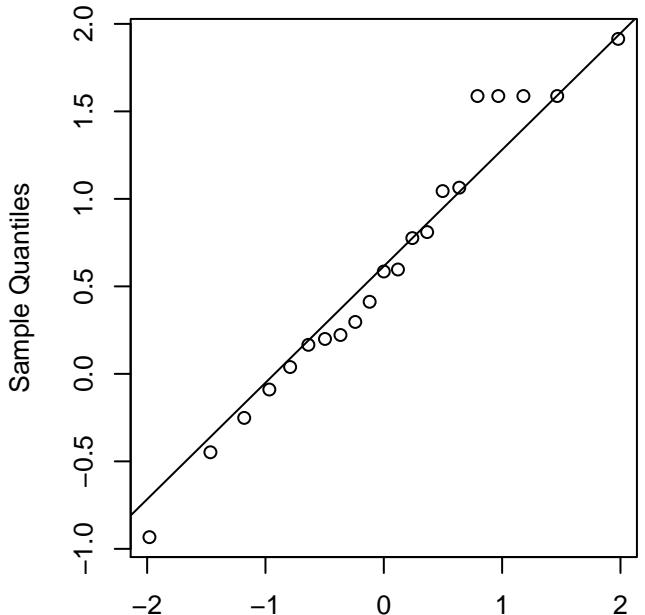
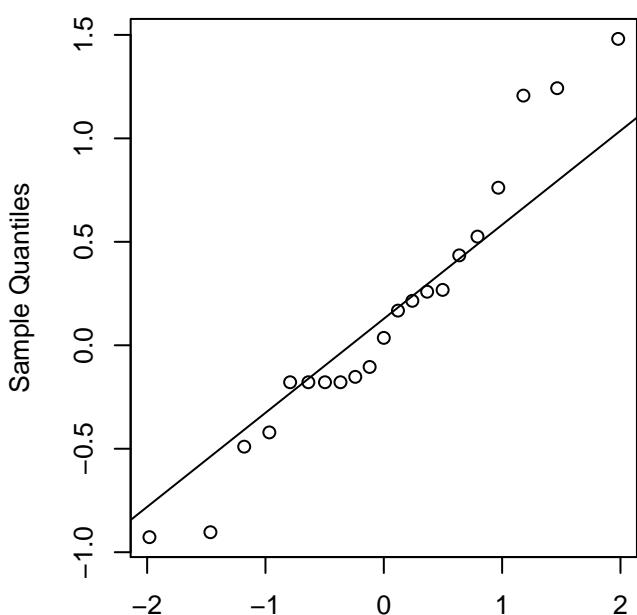
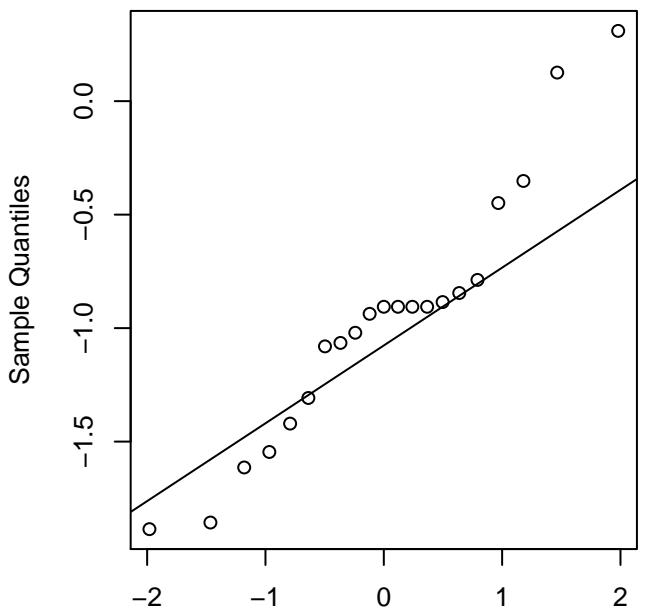
State X.EBays

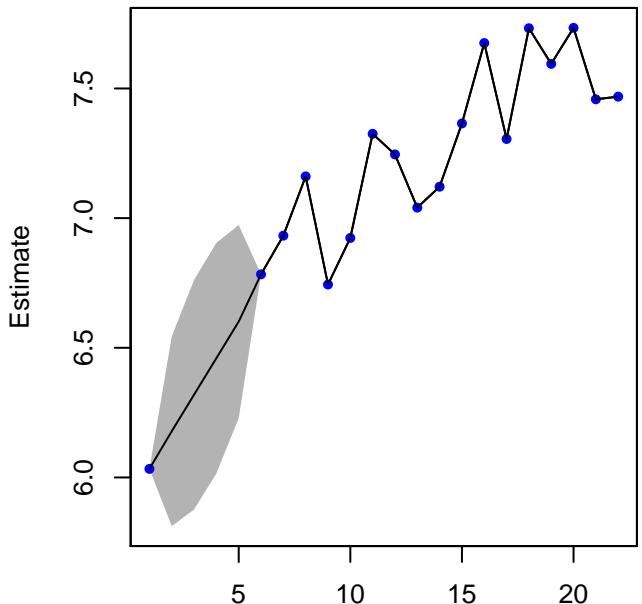
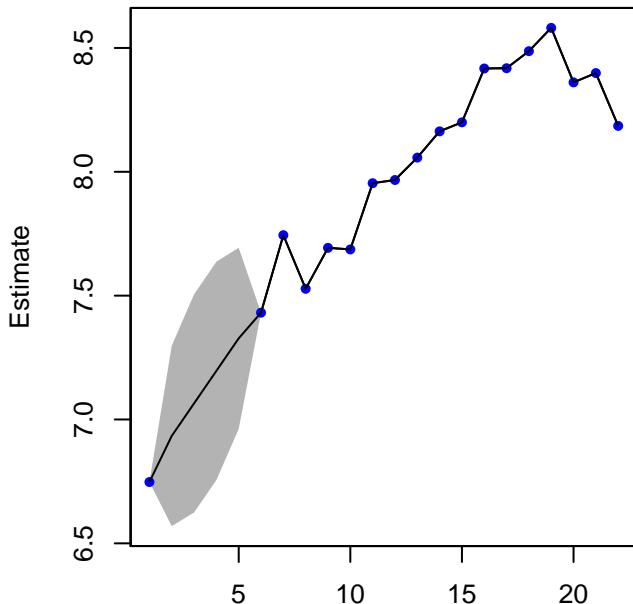
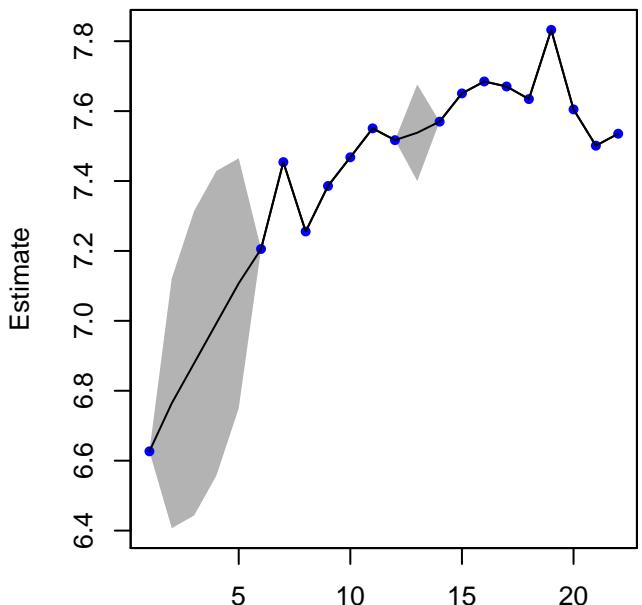


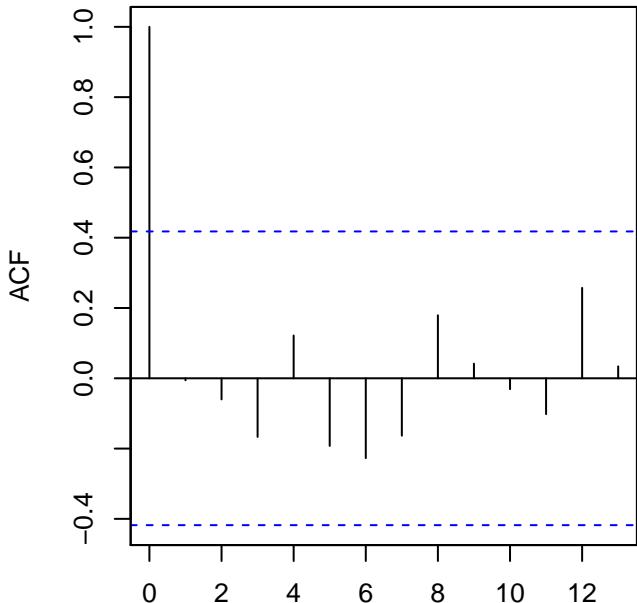
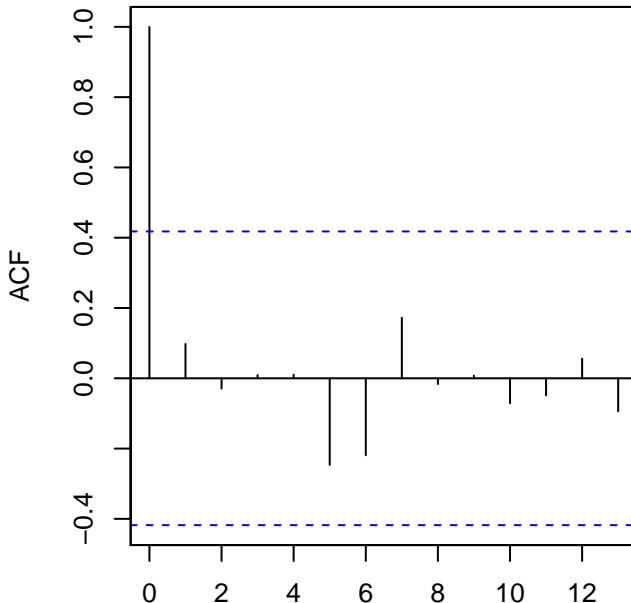
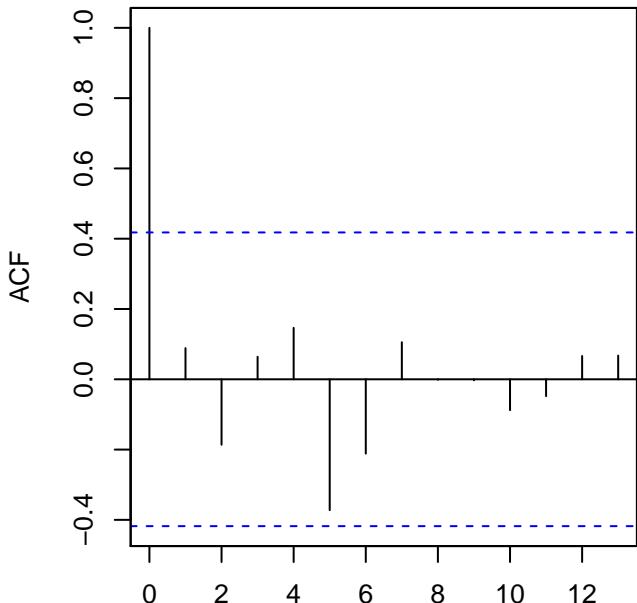


State X.SJF**State X.SJI****State X.EBays**

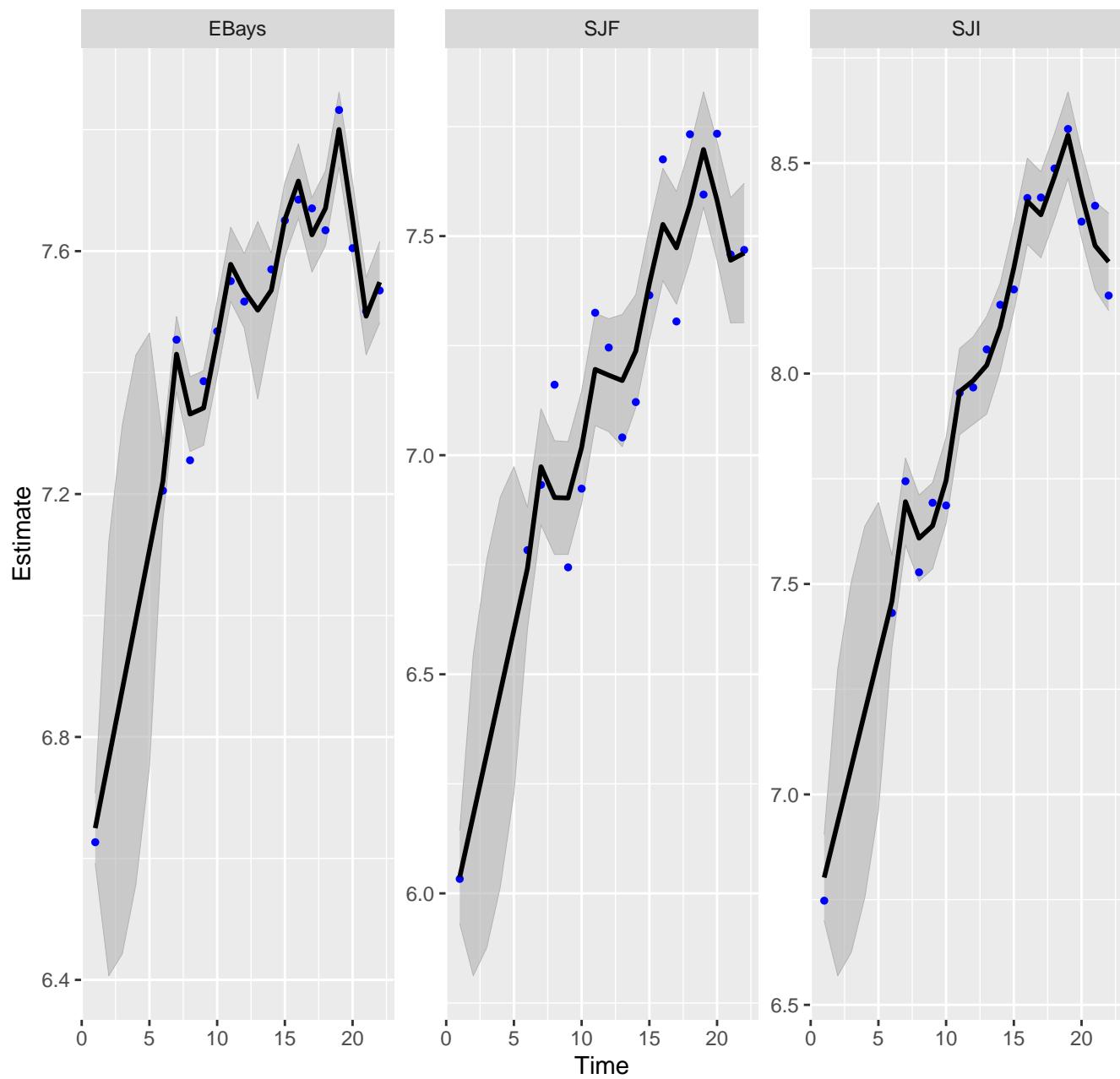
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

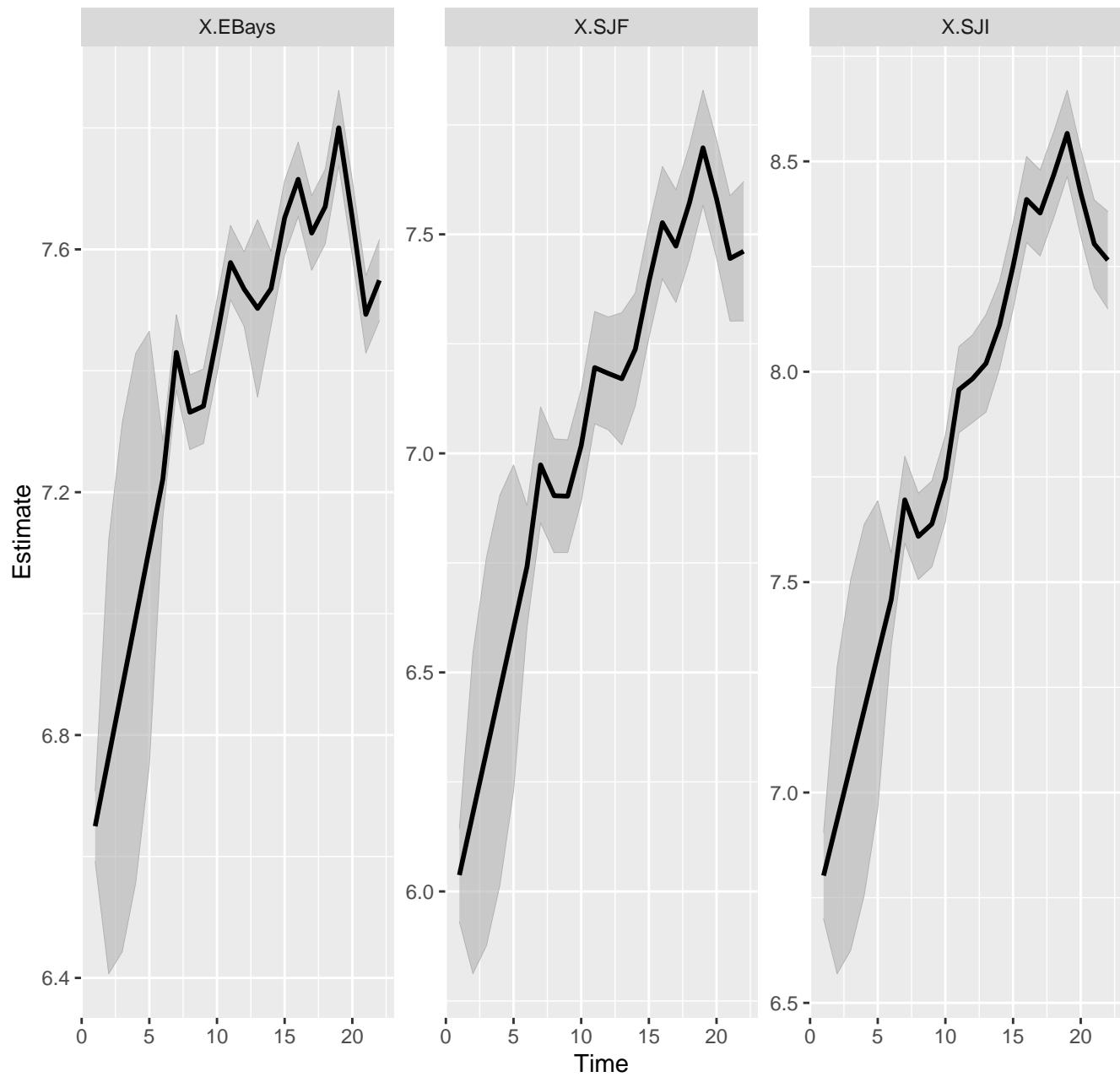
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

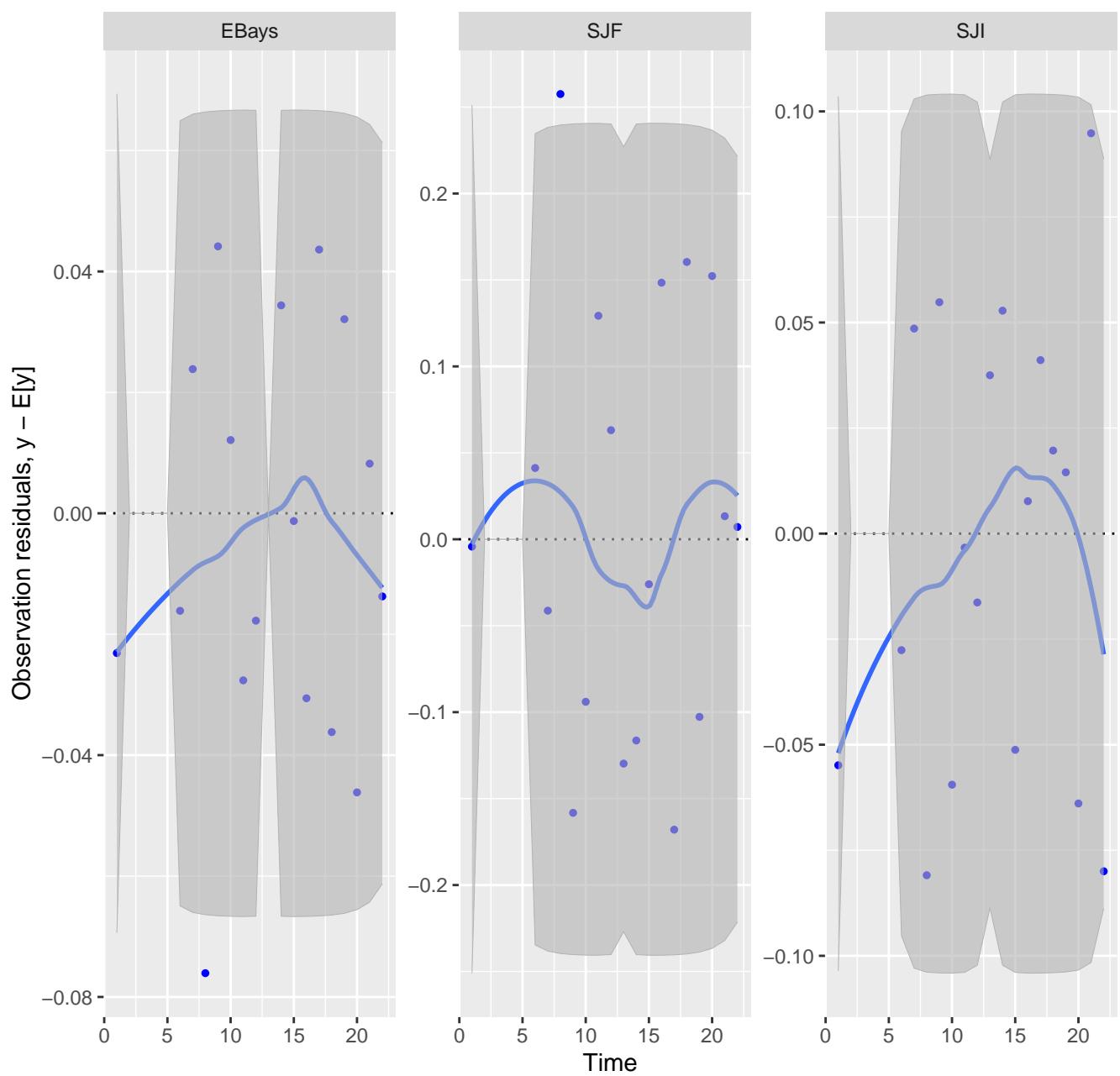
Model fitted Y + CI



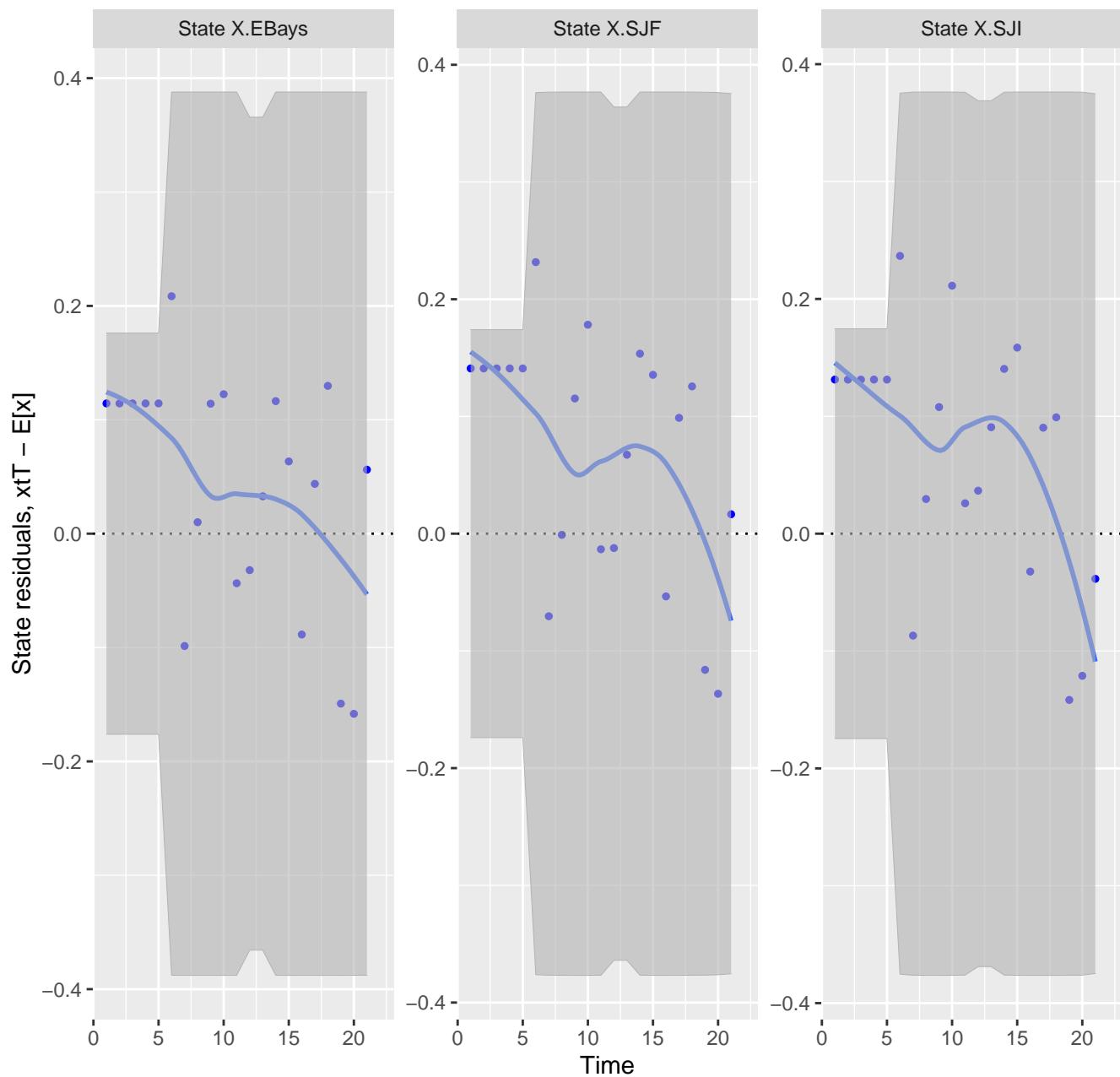
States



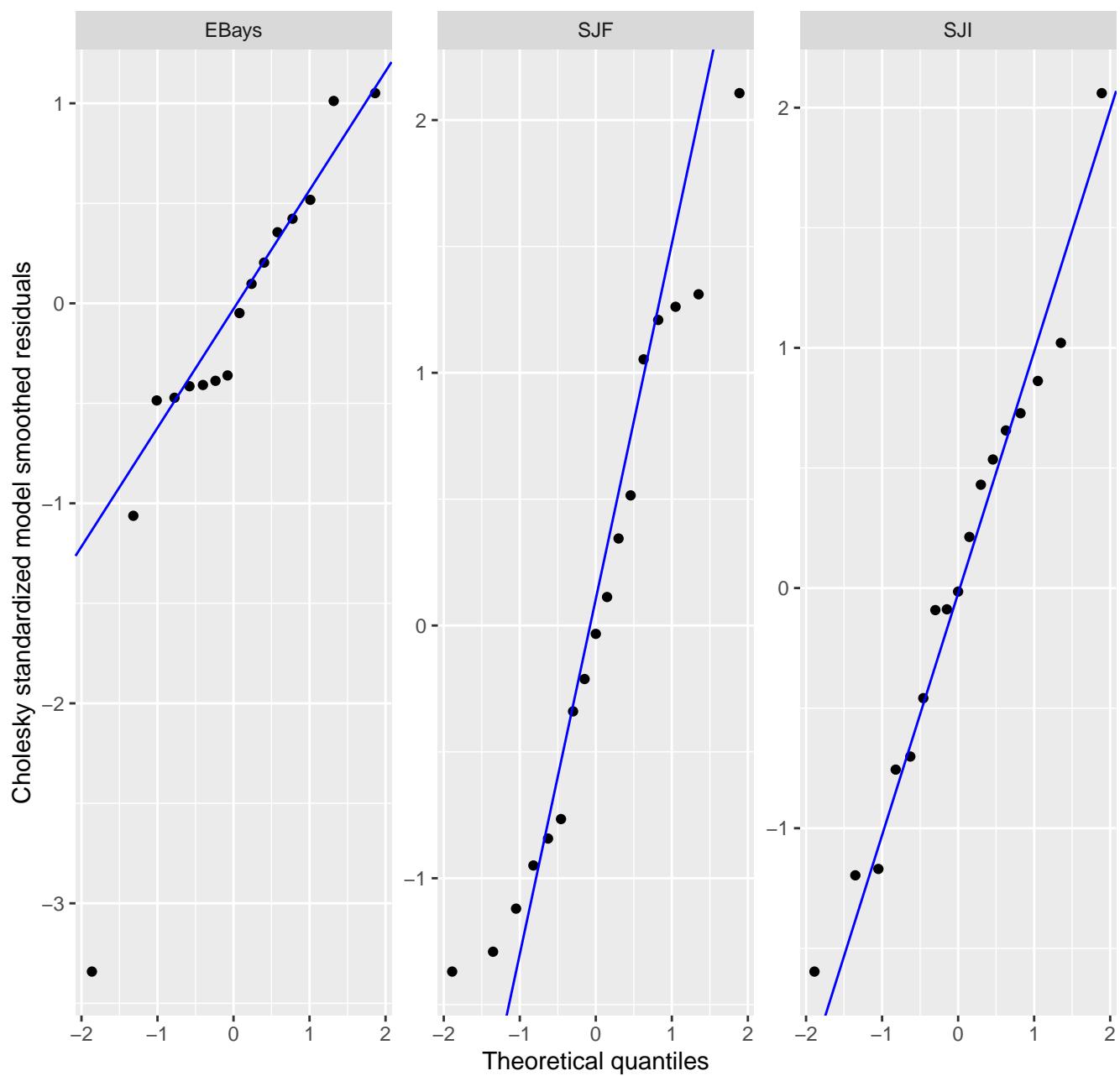
Model residuals



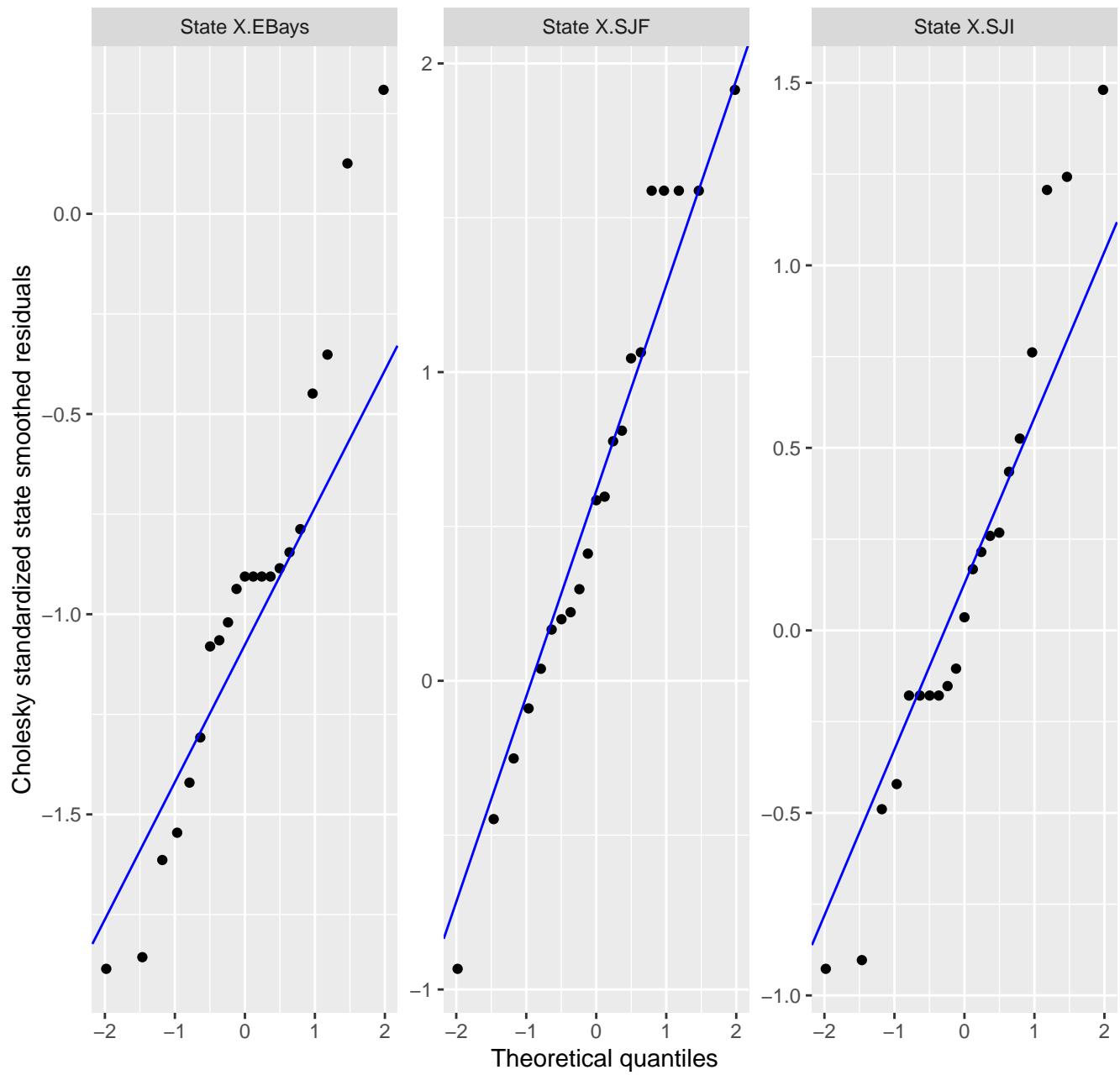
State residuals



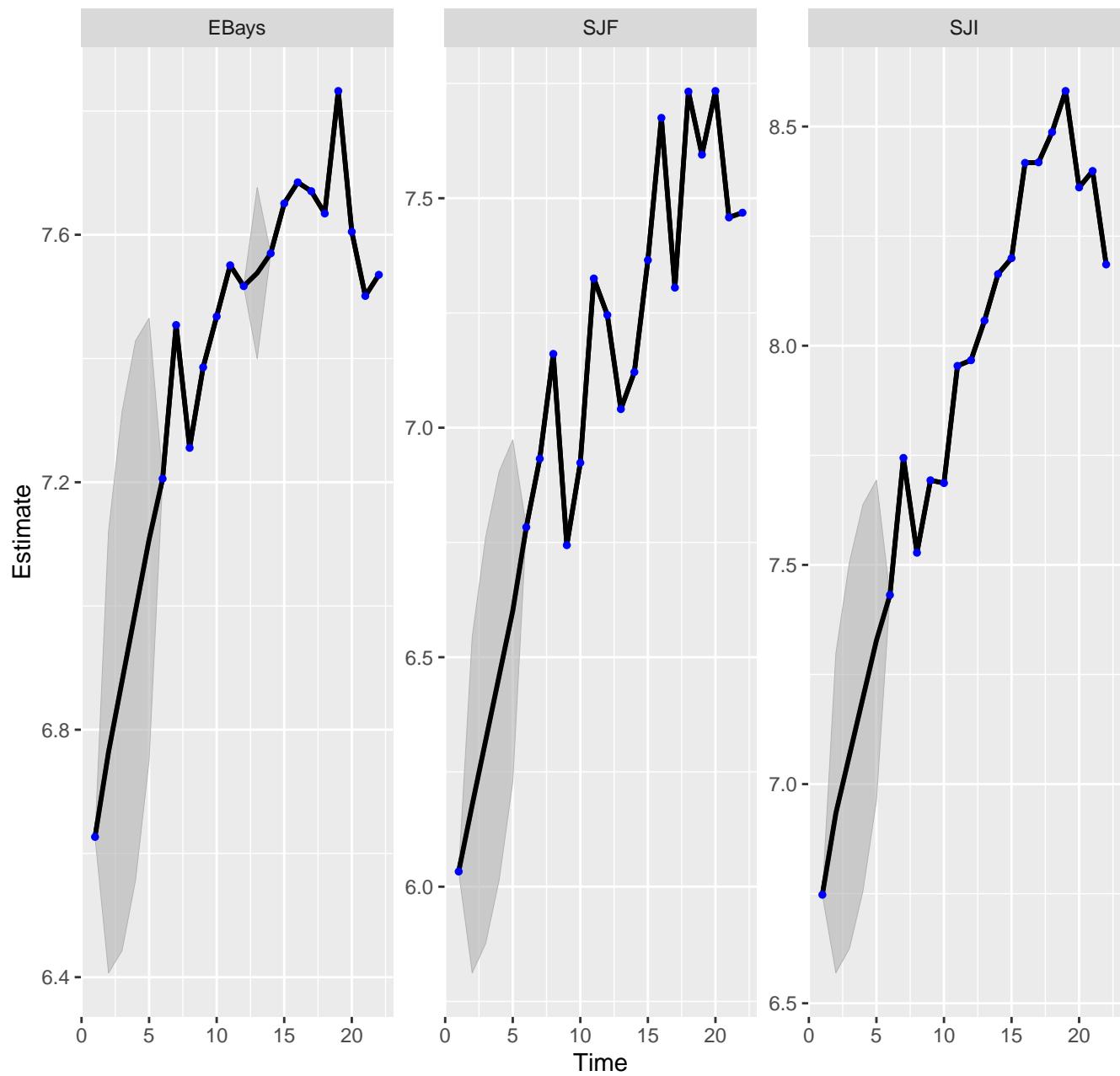
Model residuals normality test



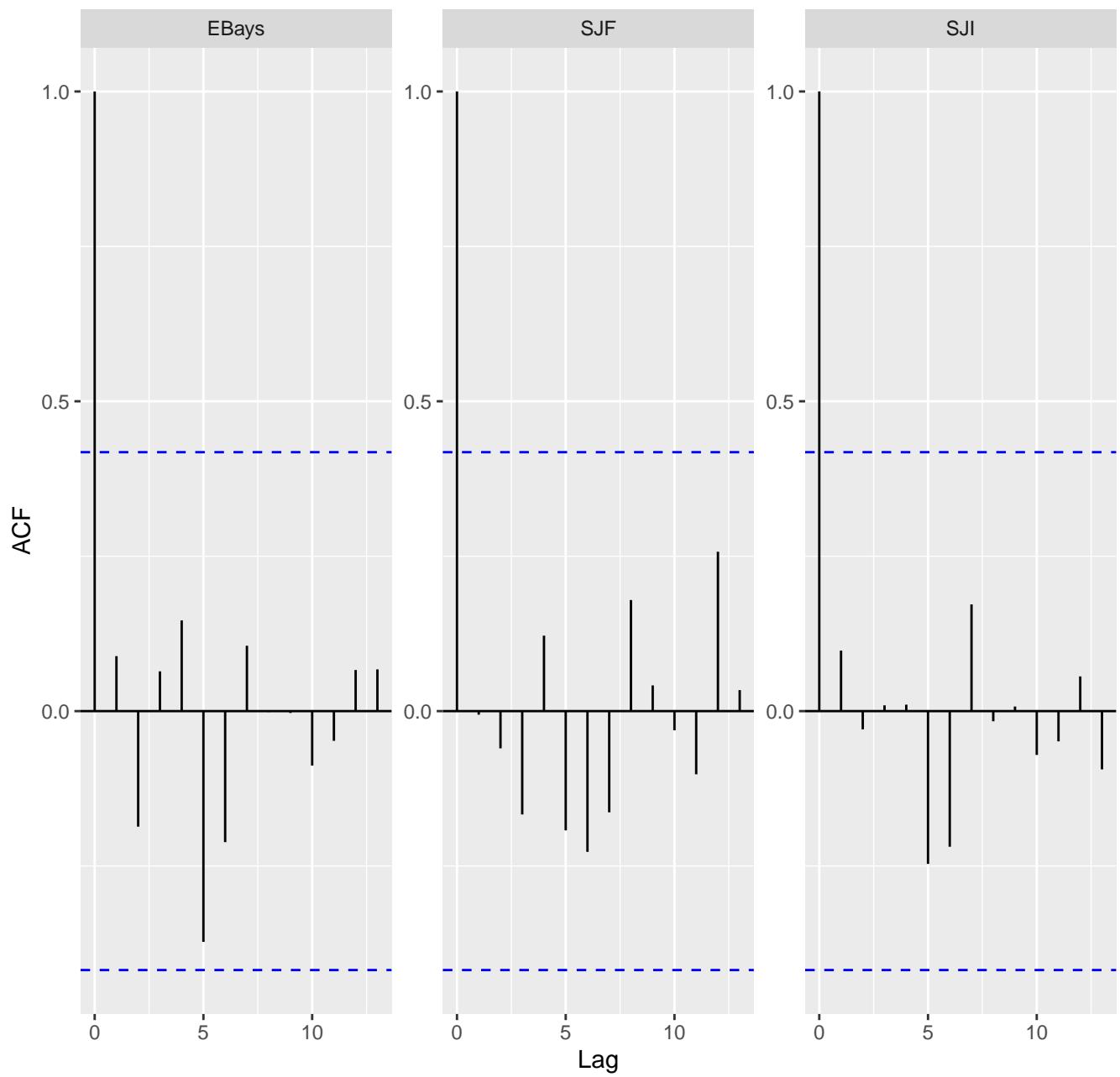
State residuals normality test

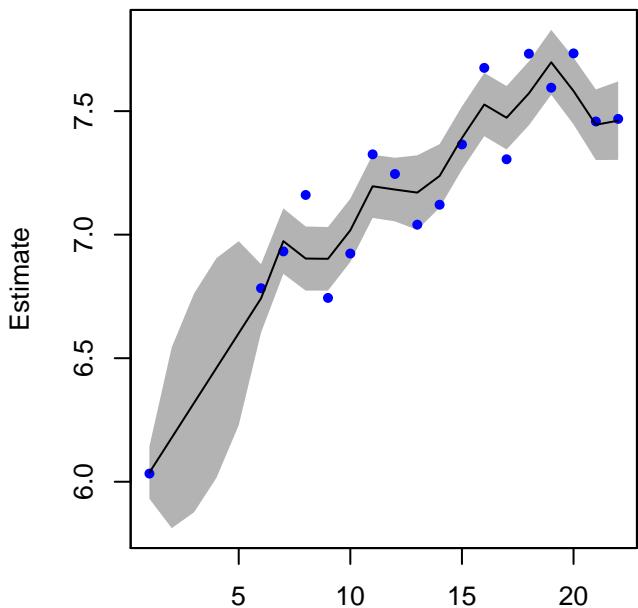
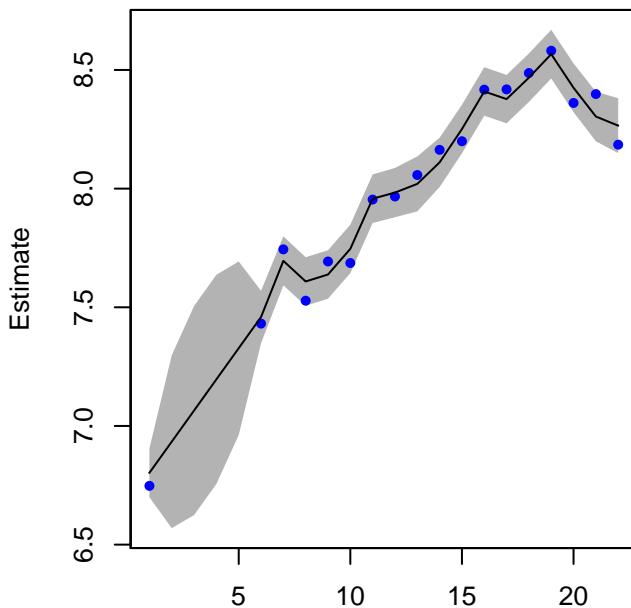
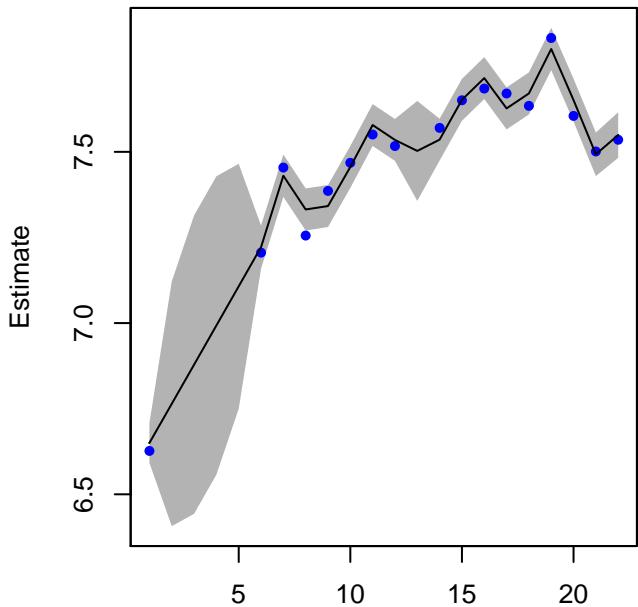


Expected value of Y conditioned on data

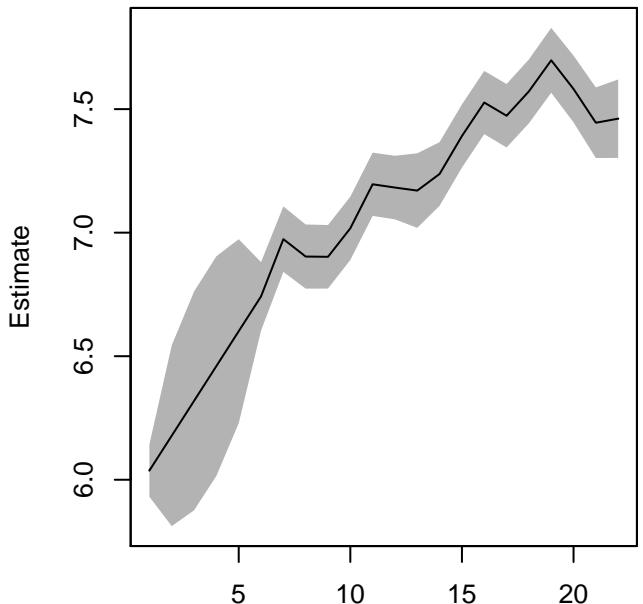


Model innovations residuals ACF

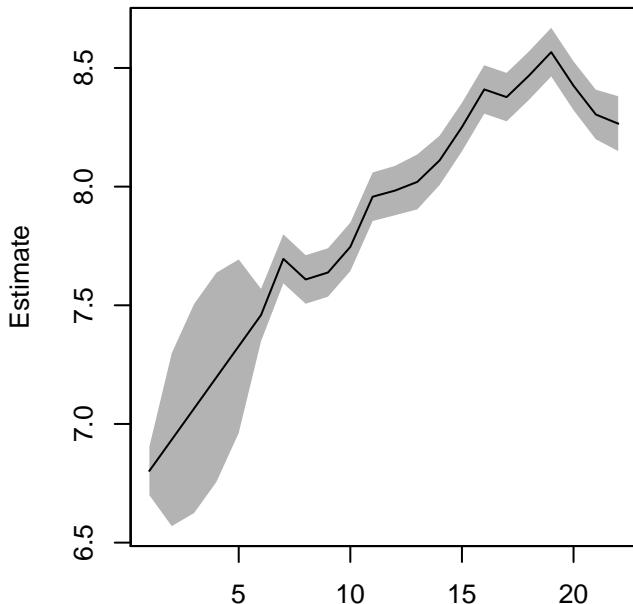


SJF + CI**SJI + CI****EBays + CI**

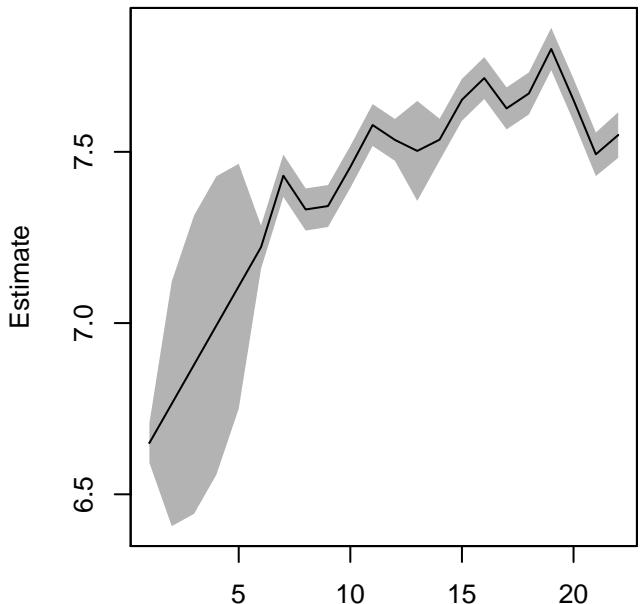
State X.SJF



State X.SJI

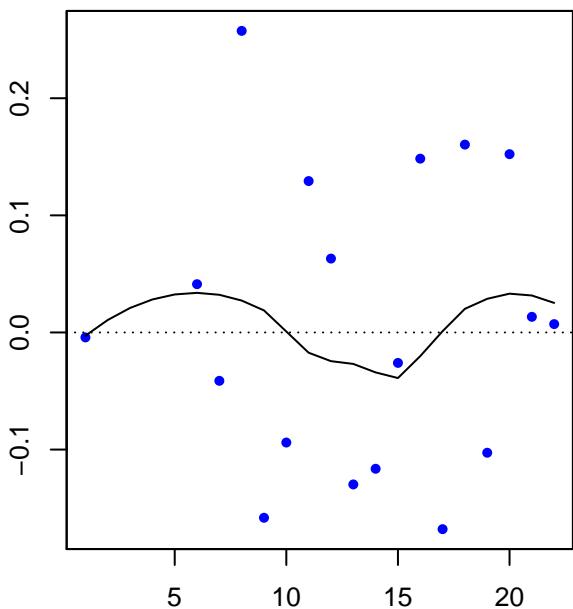


State X.EBays

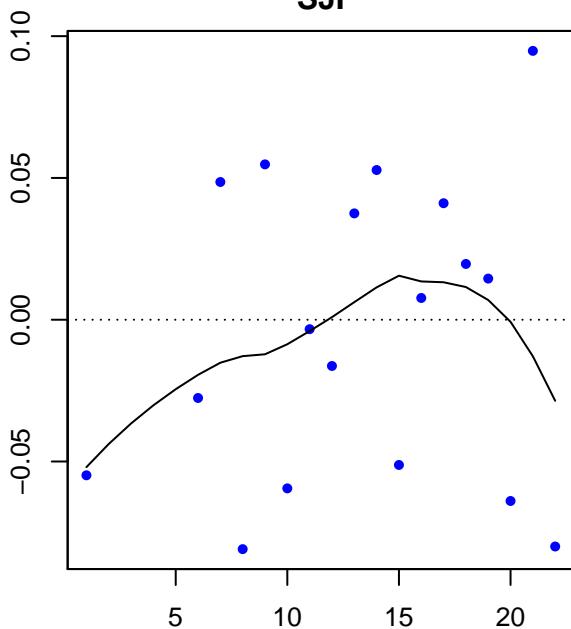


Observation residuals, $y - E[y]$

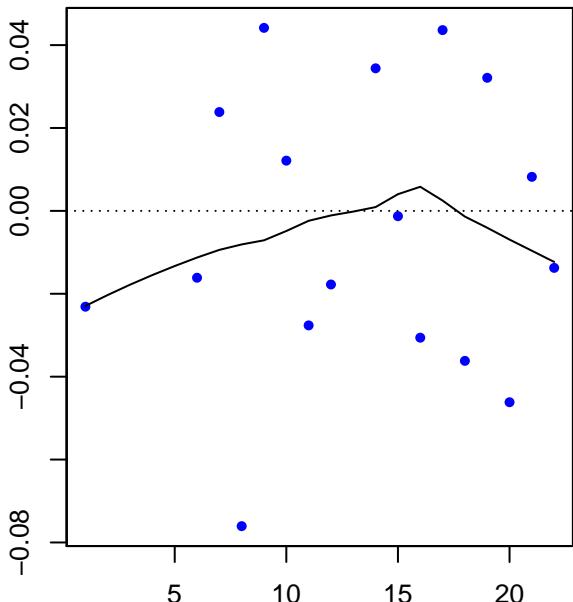
SJF

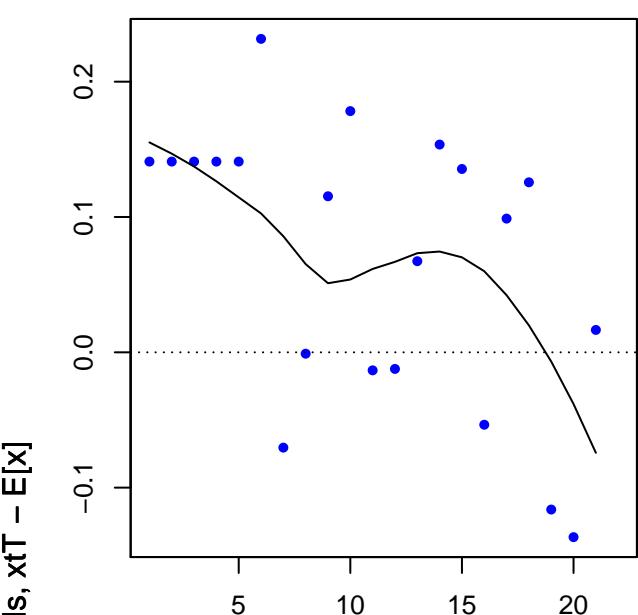
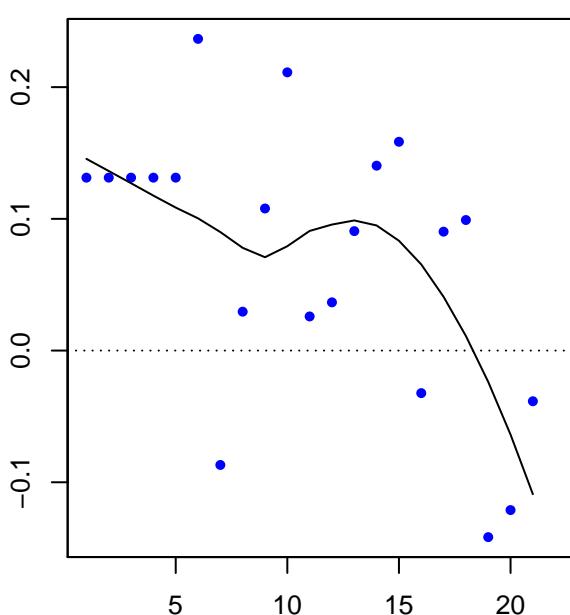
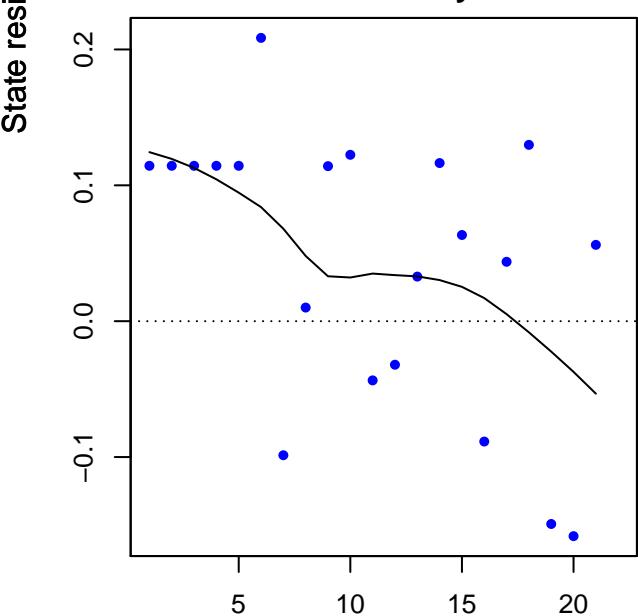


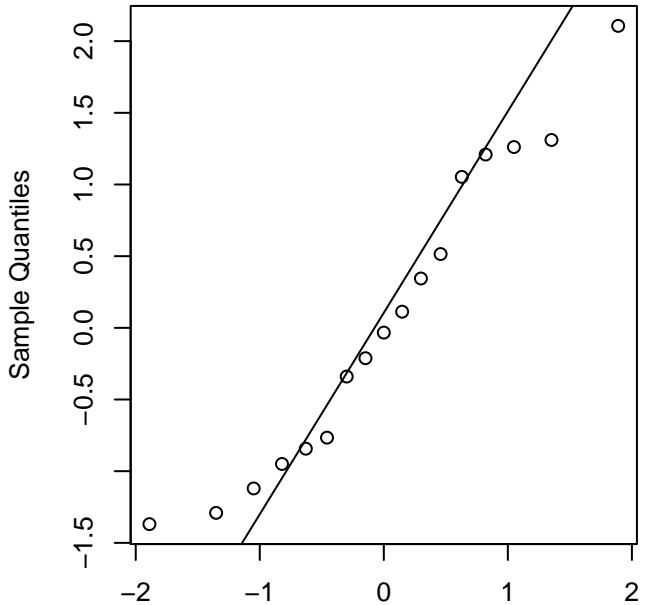
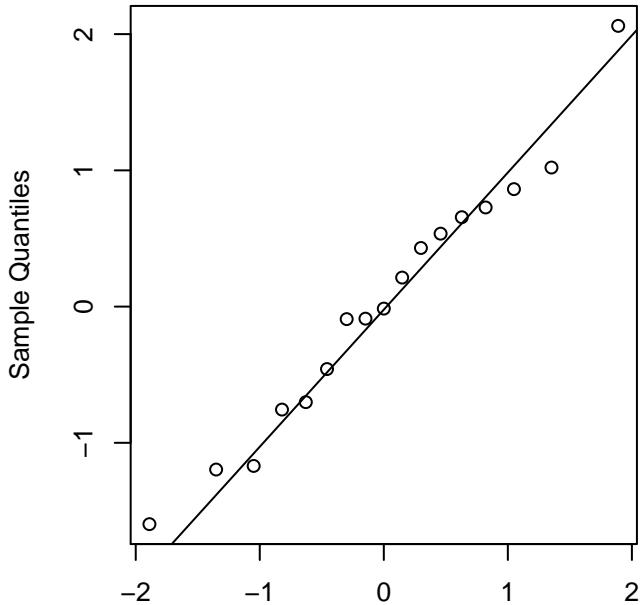
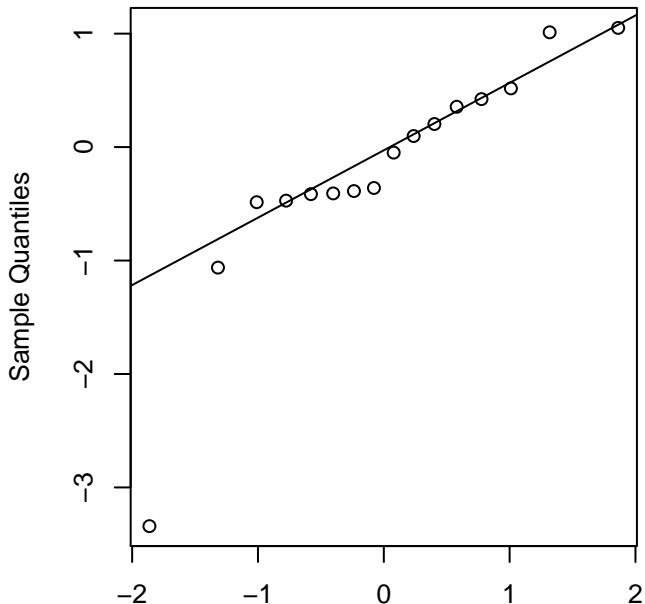
SJI

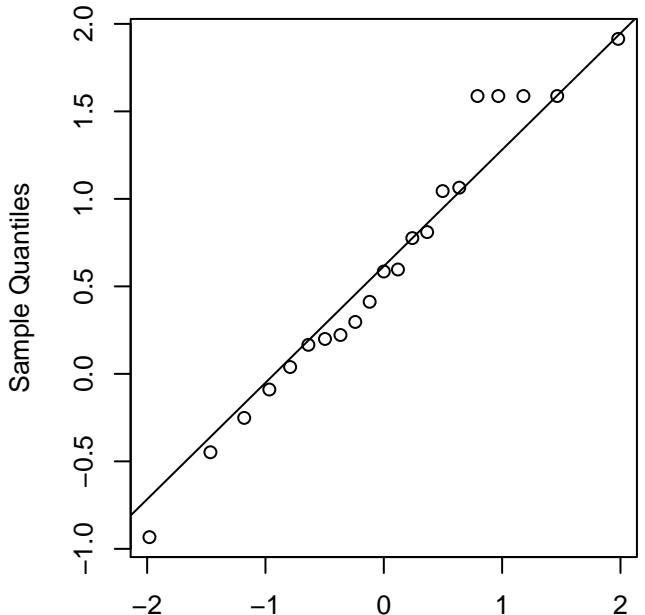
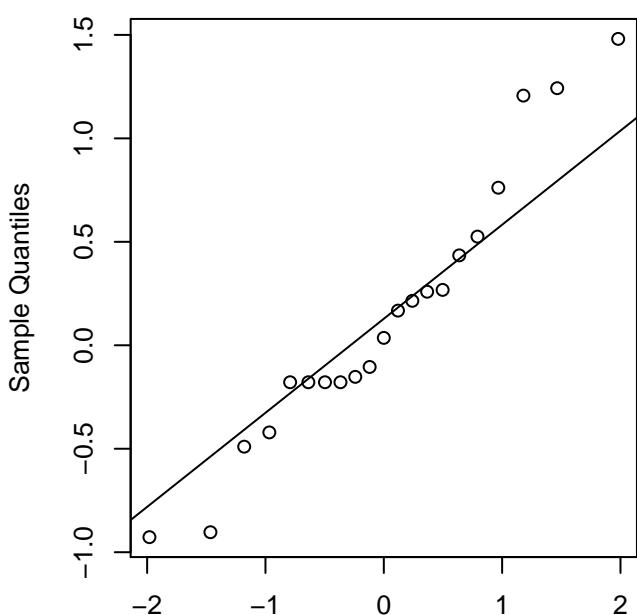
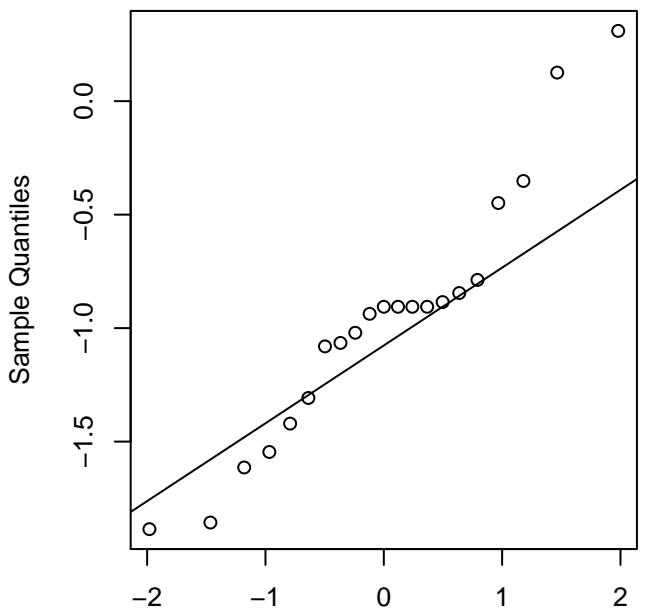


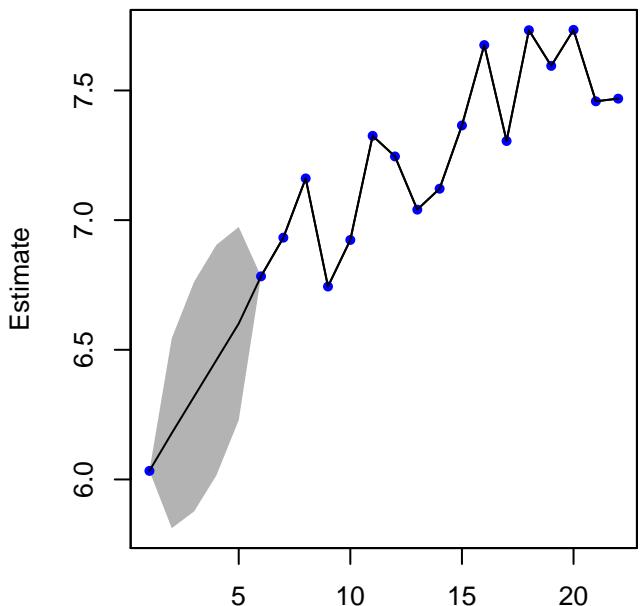
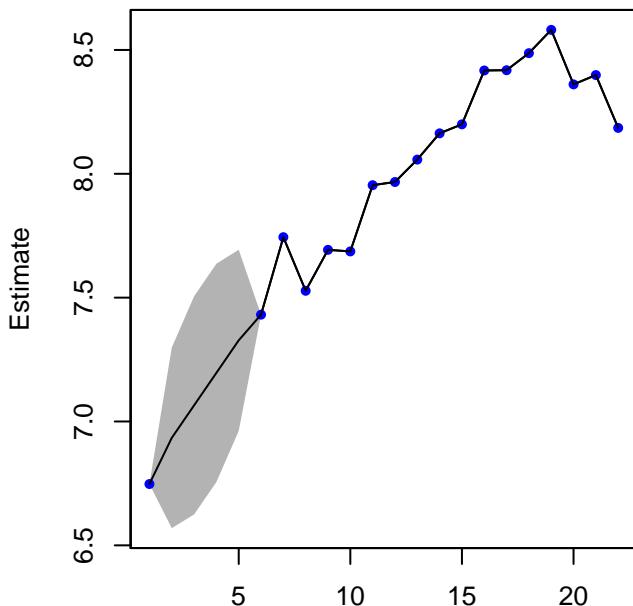
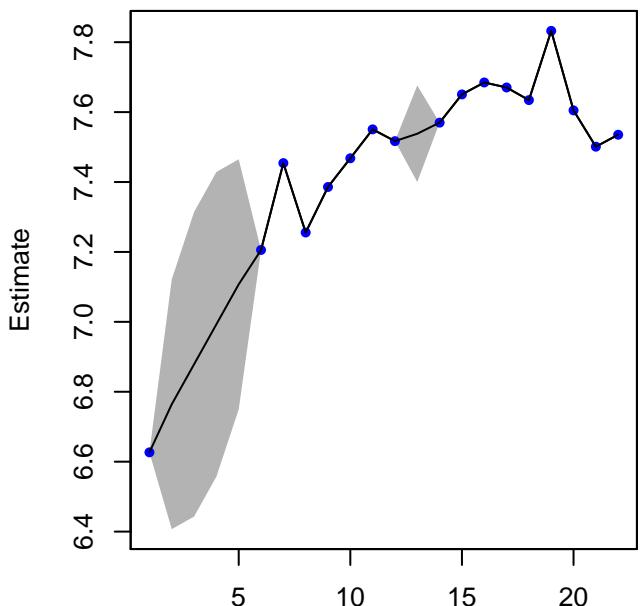
EBays

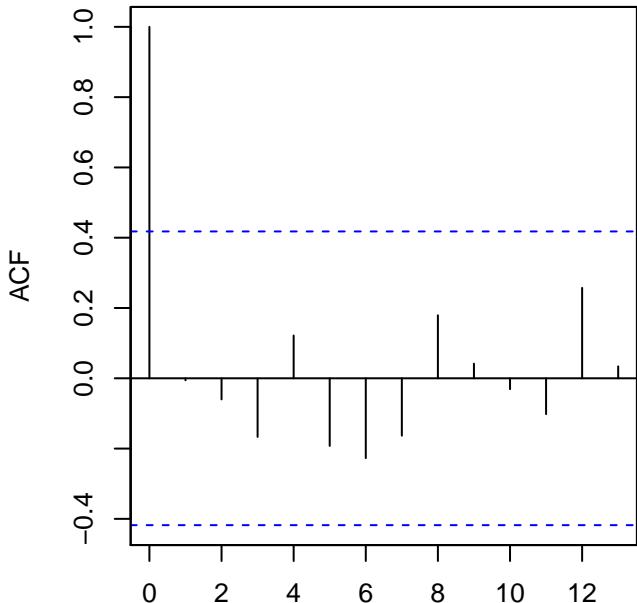
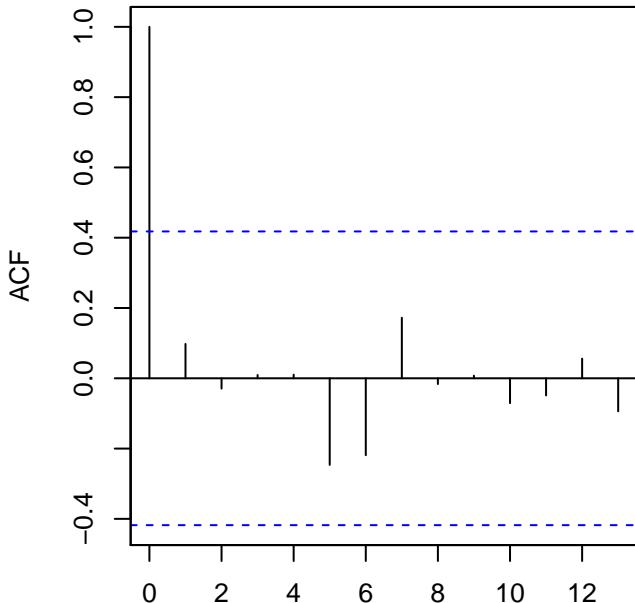
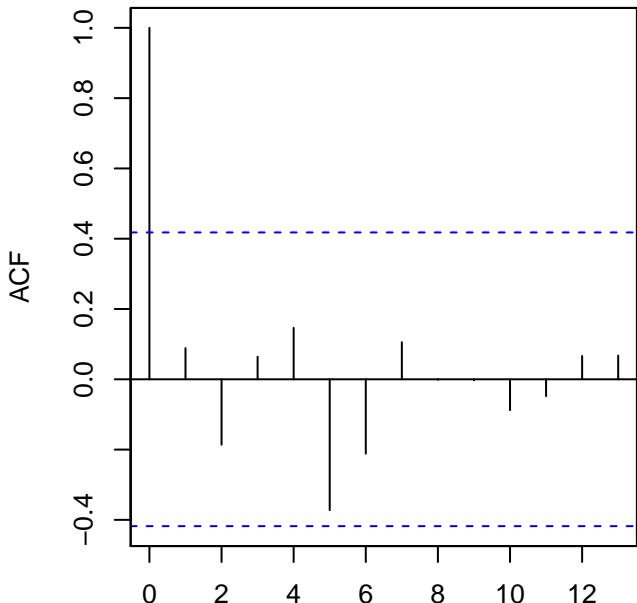


State X.SJF**State X.SJI****State X.EBays**

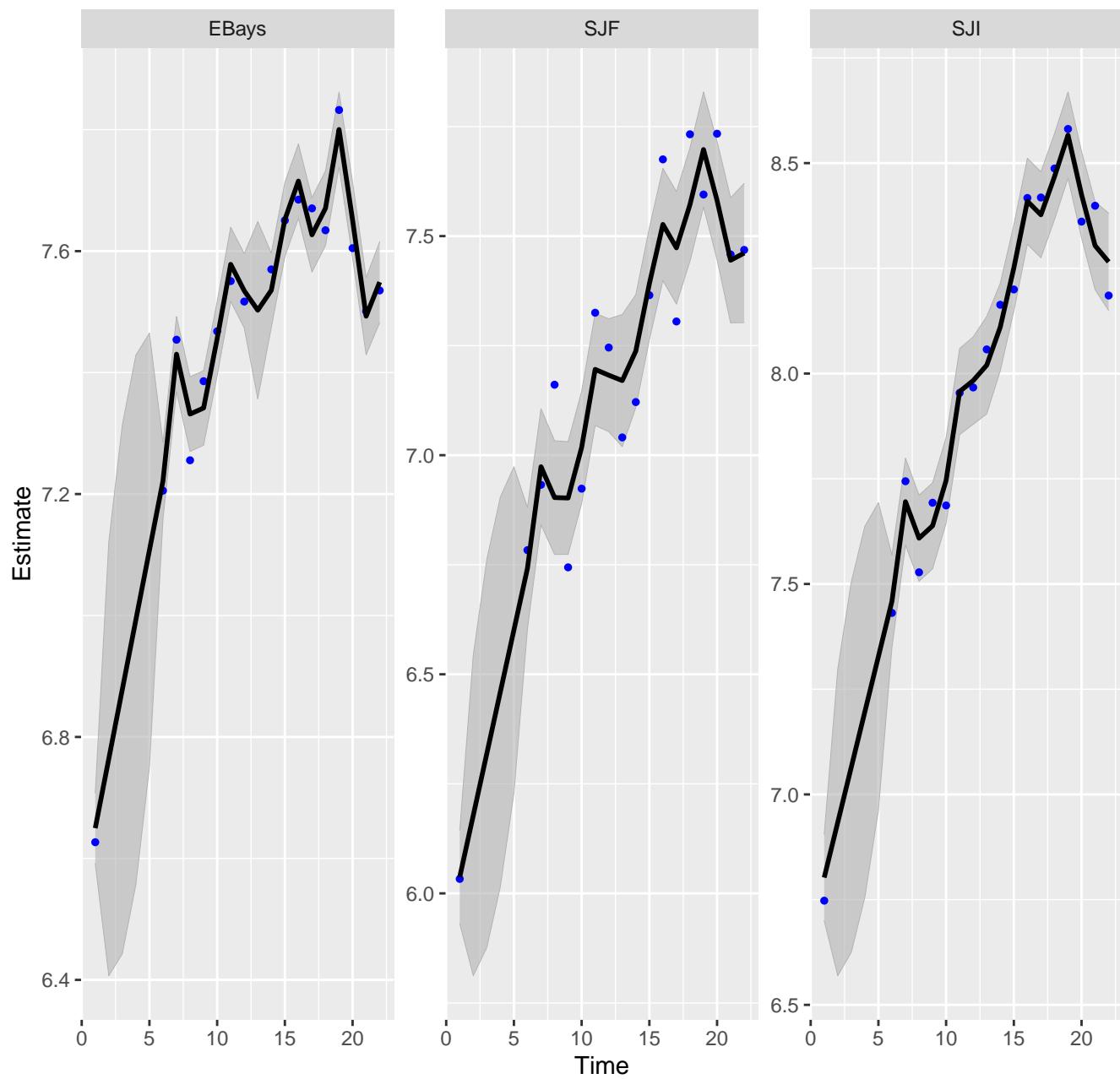
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

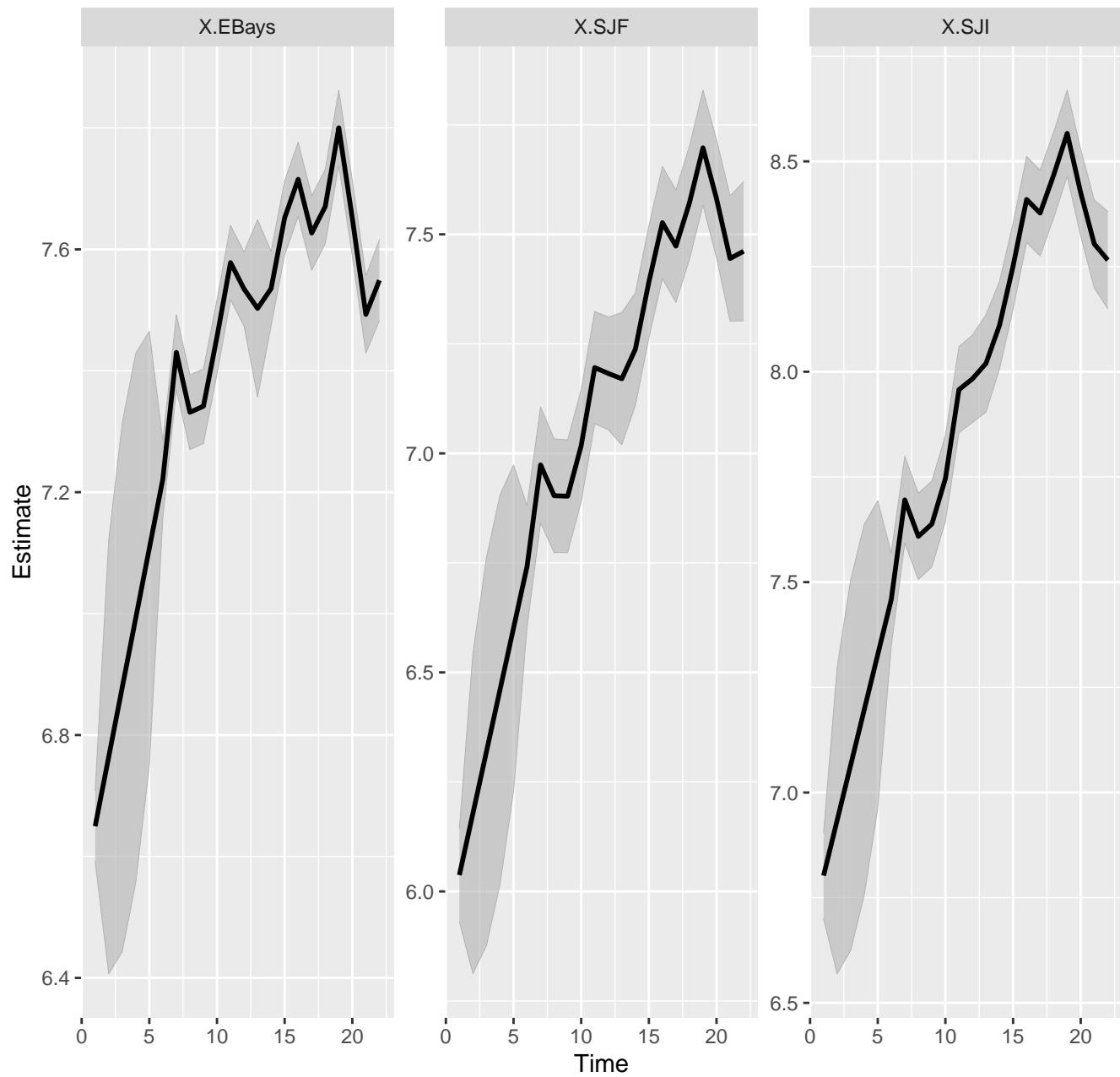
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

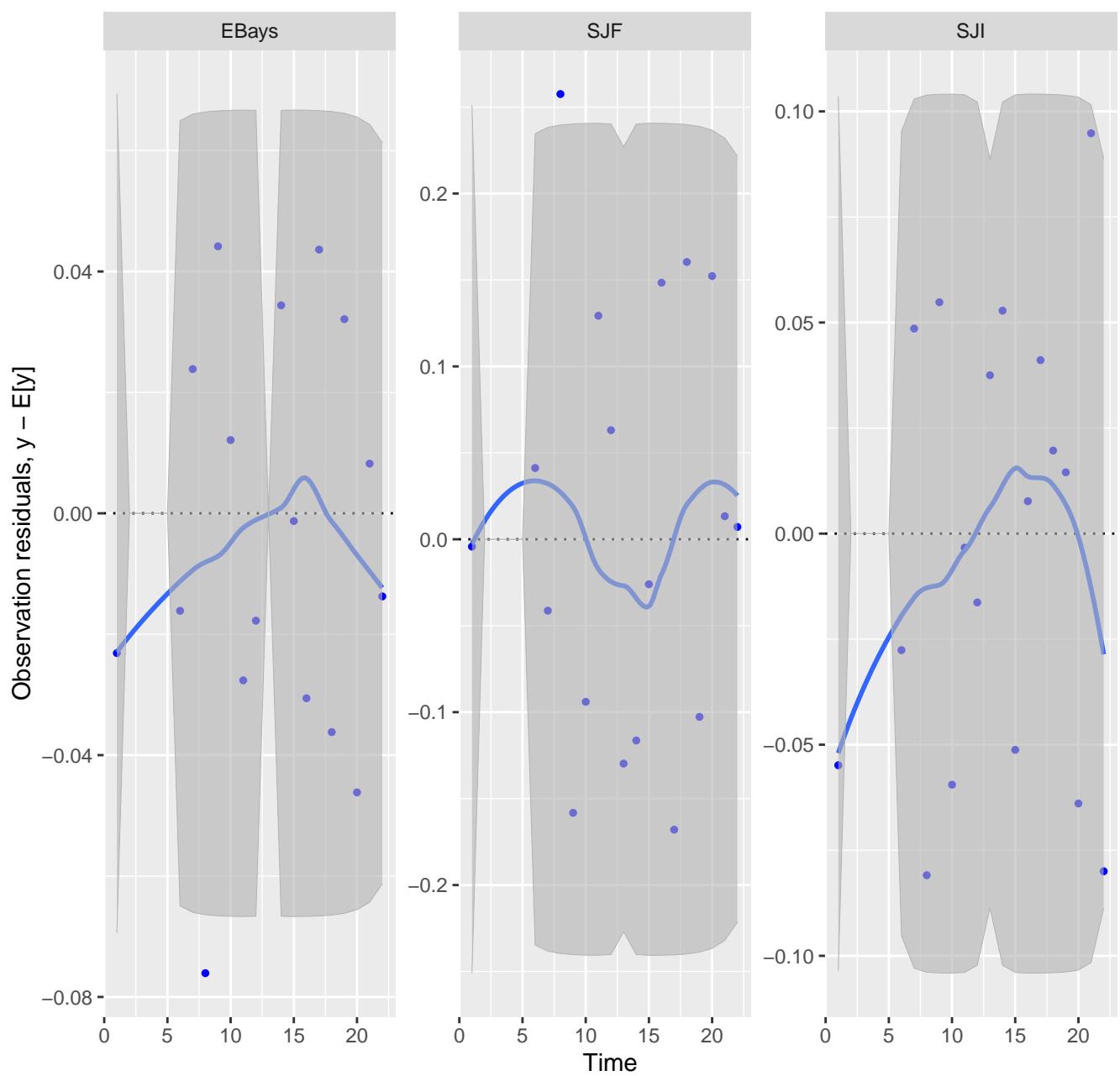
Model fitted Y + CI



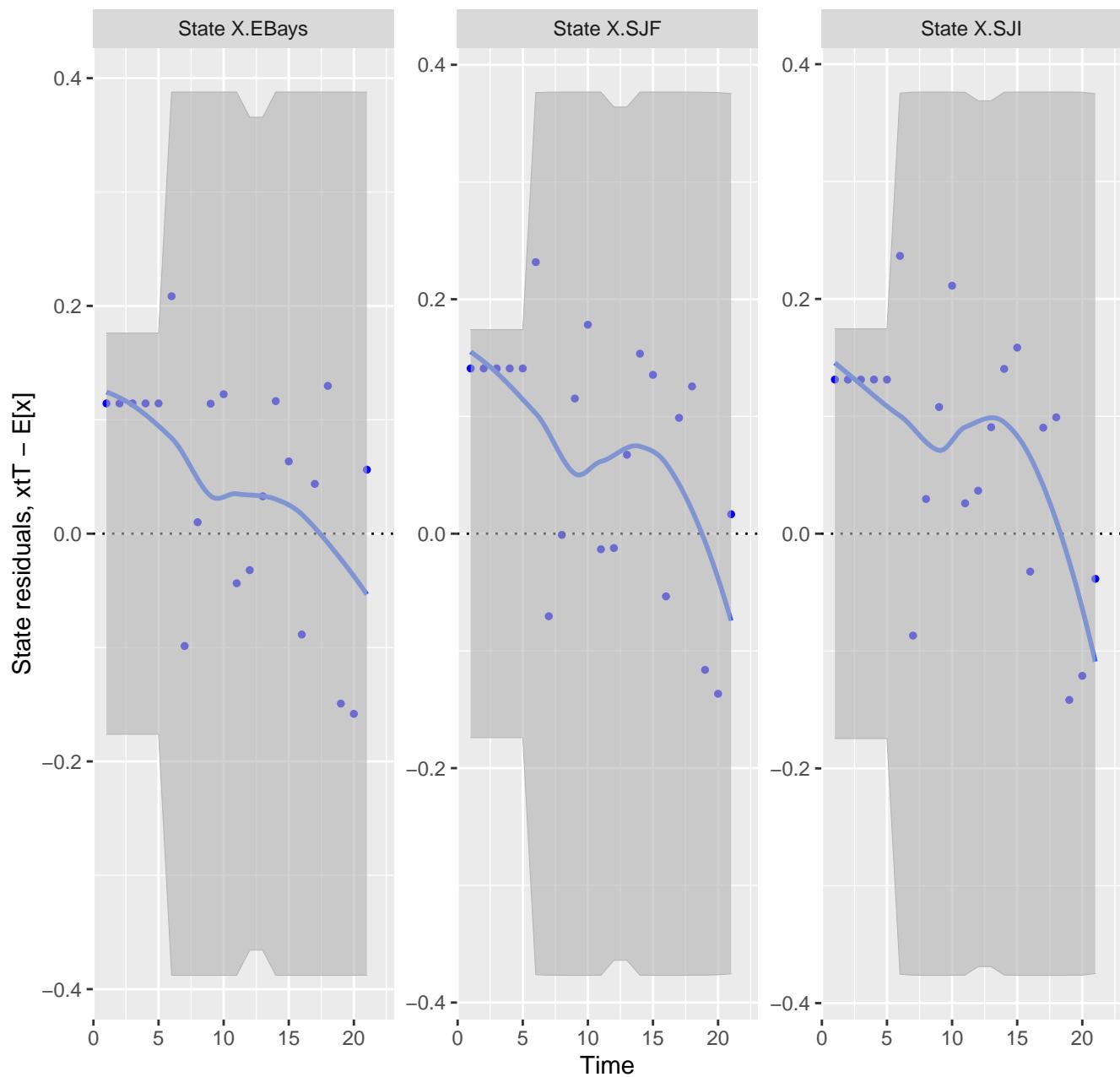
States



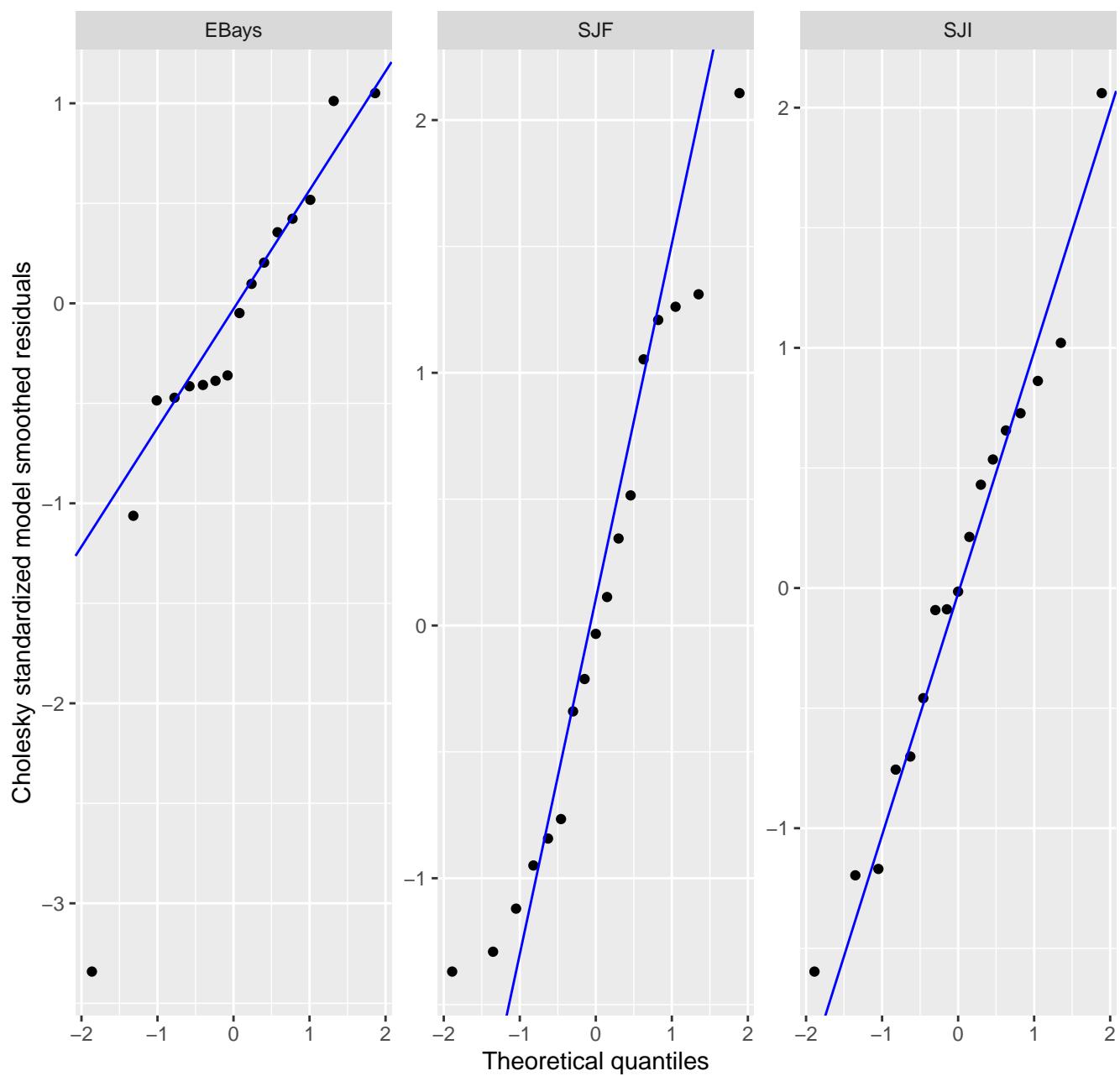
Model residuals



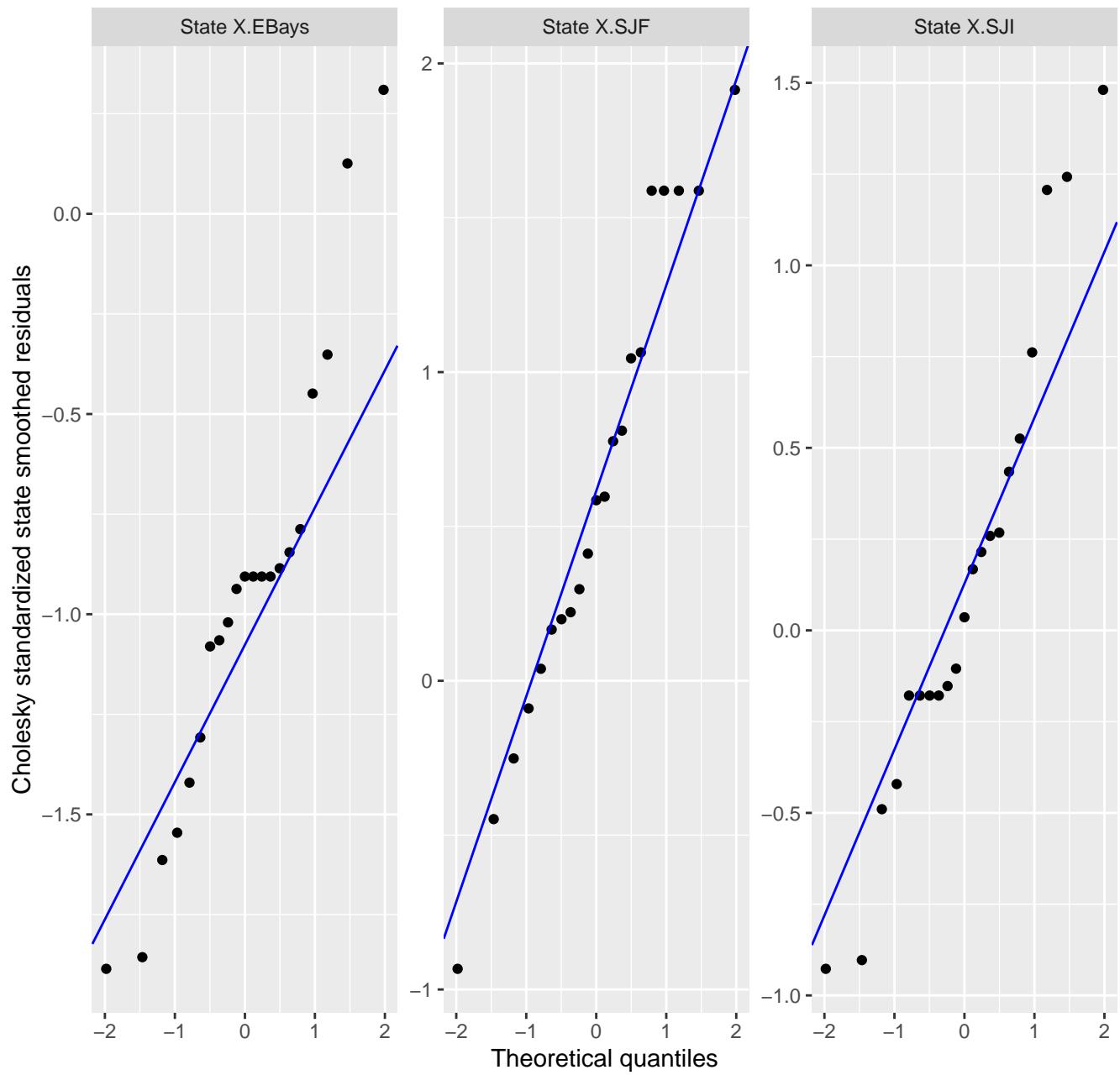
State residuals



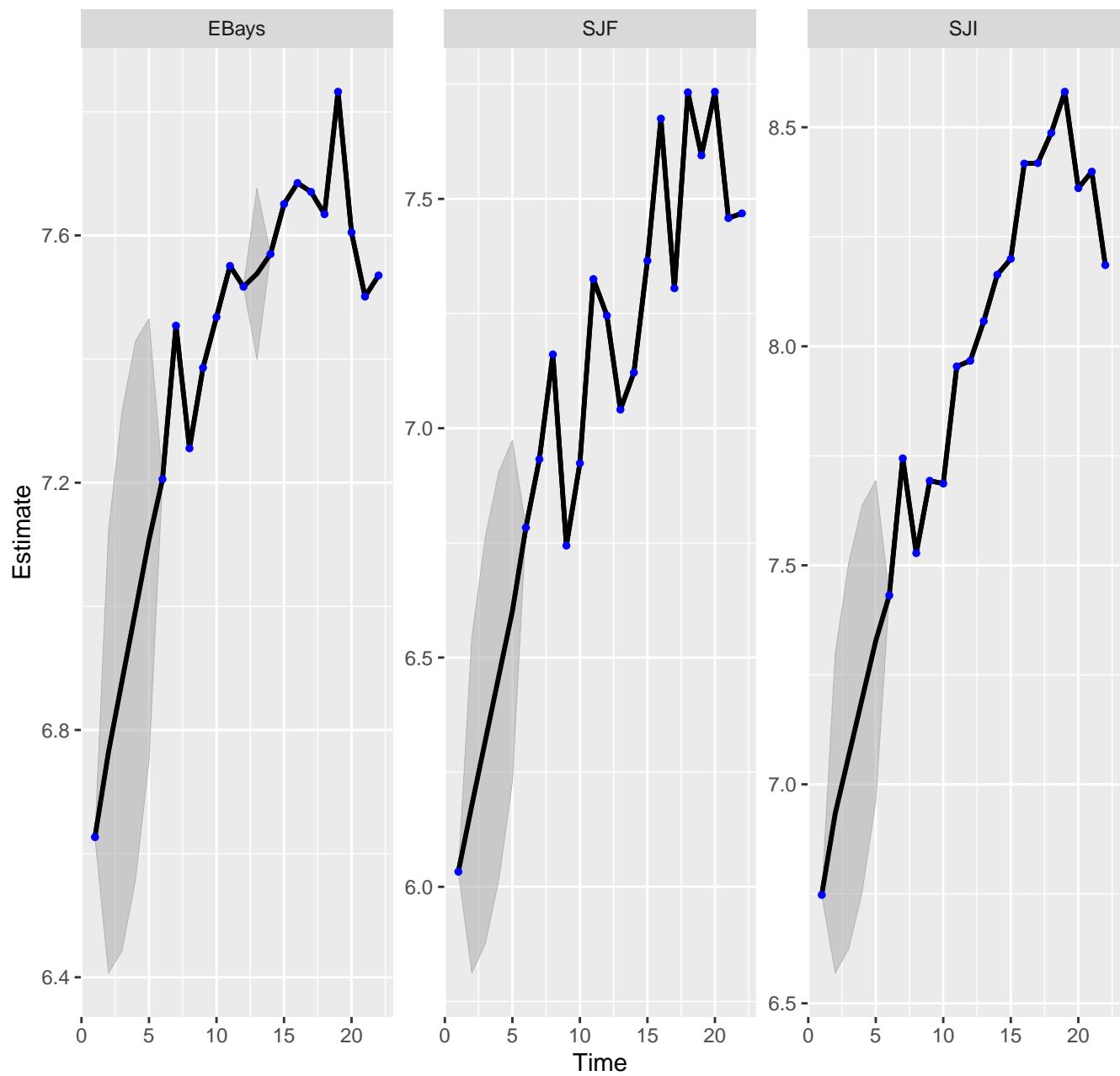
Model residuals normality test



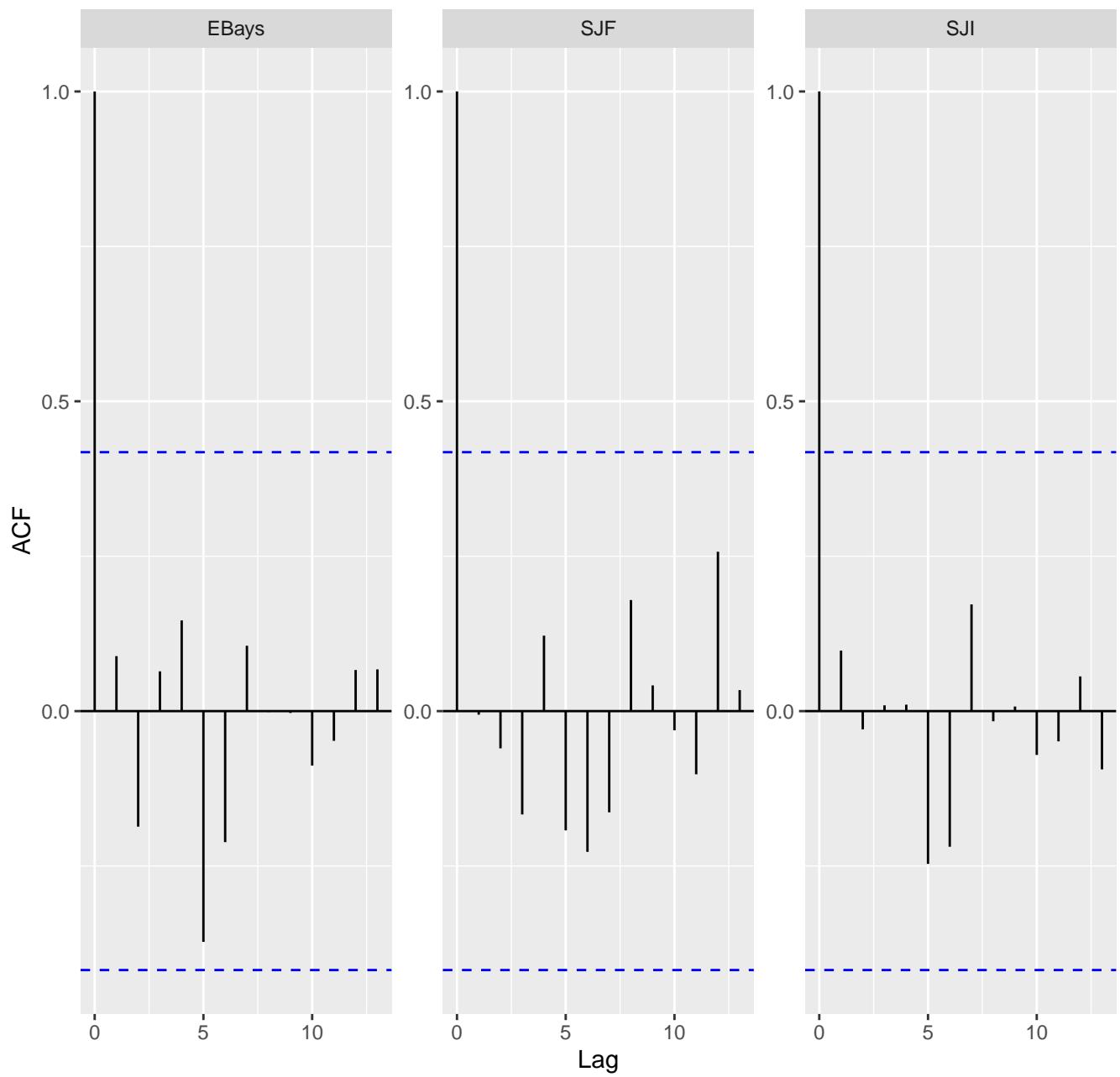
State residuals normality test

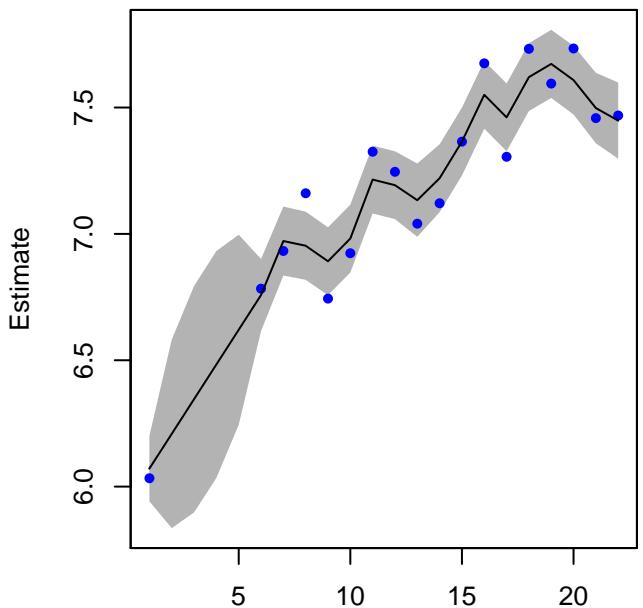
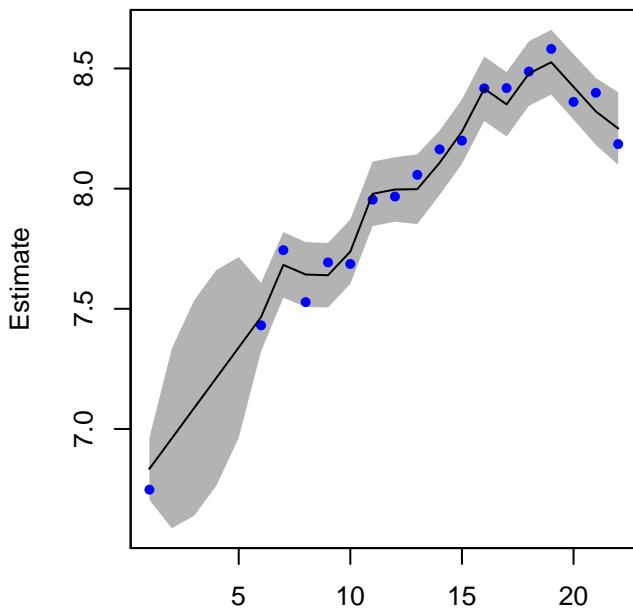
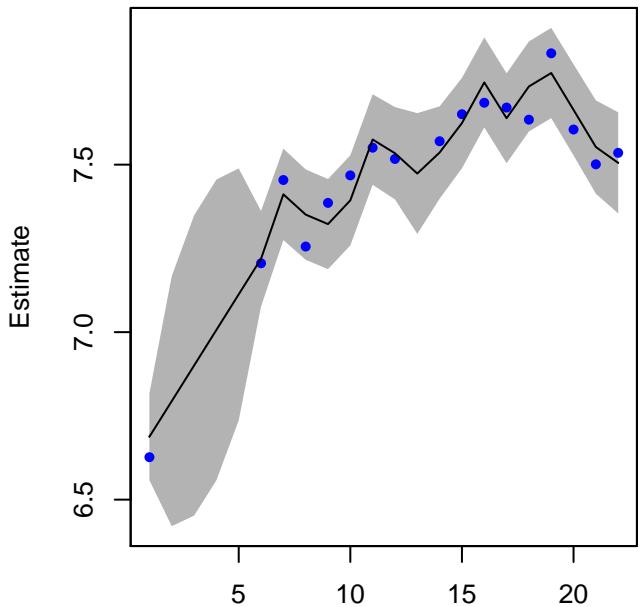


Expected value of Y conditioned on data

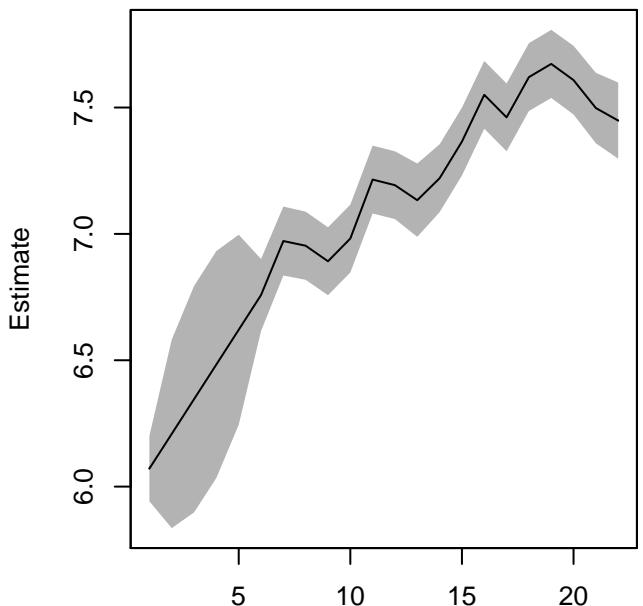


Model innovations residuals ACF

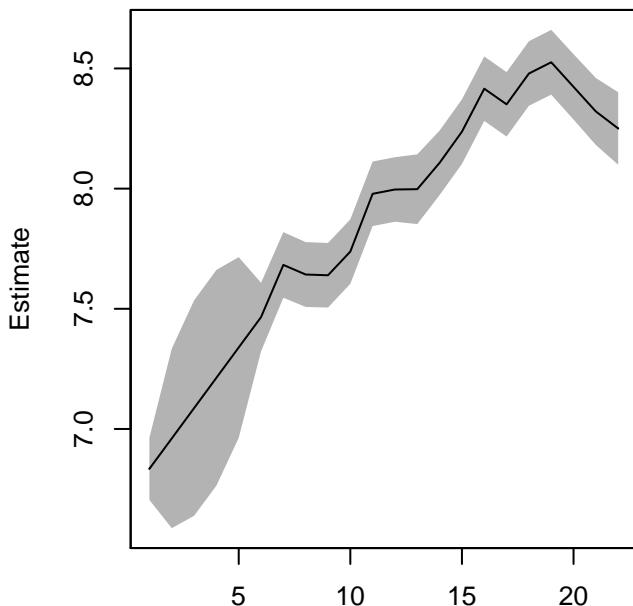


SJF + CI**SJI + CI****EBays + CI**

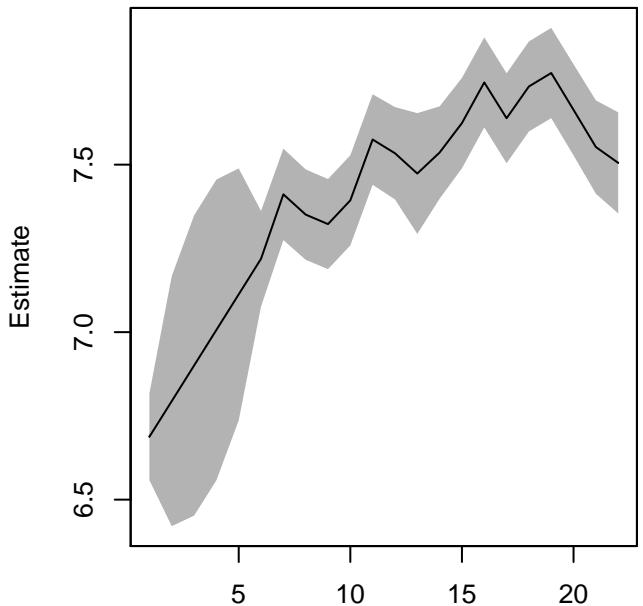
State X.SJF



State X.SJI

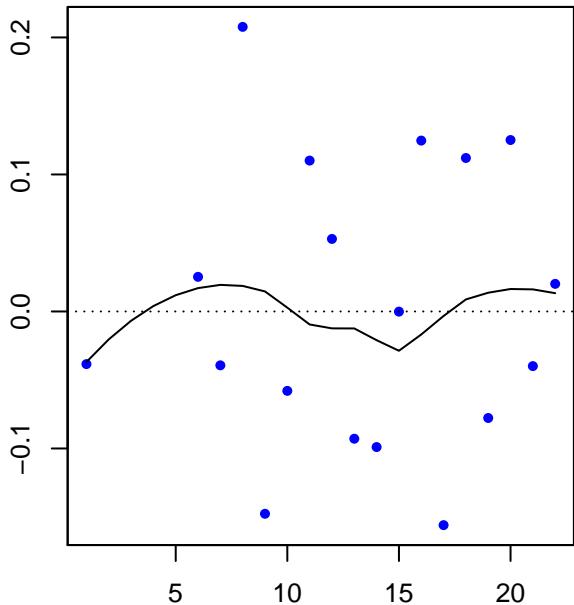


State X.EBays

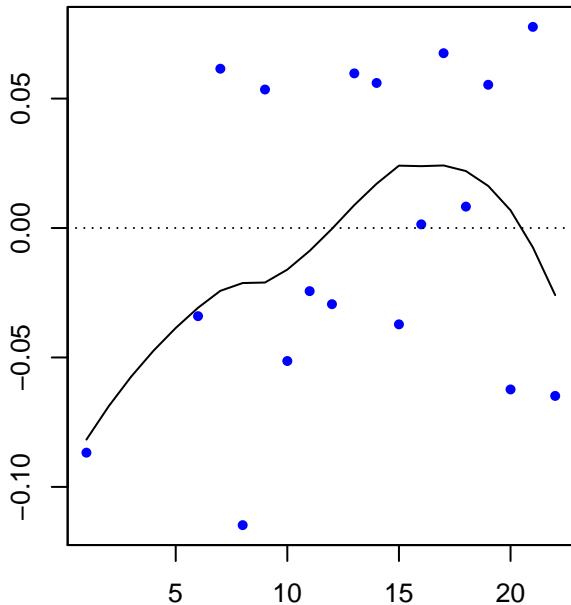


Observation residuals, $y - E[y]$

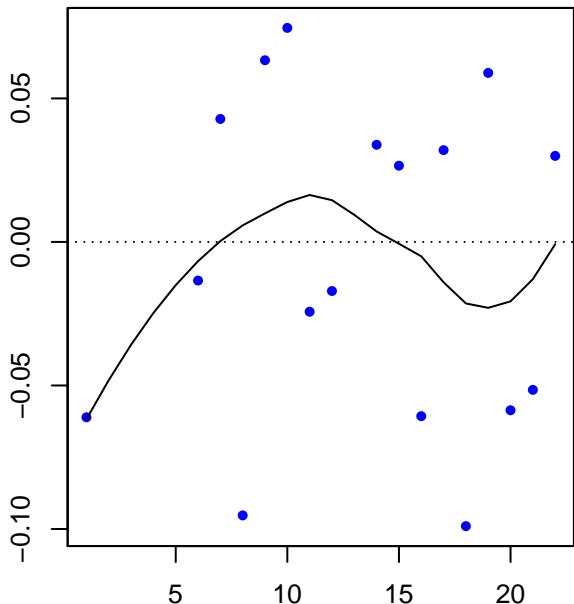
SJF

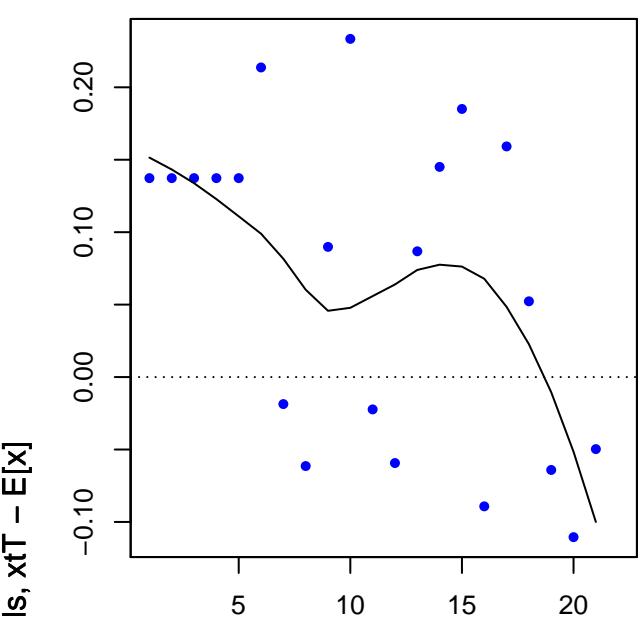
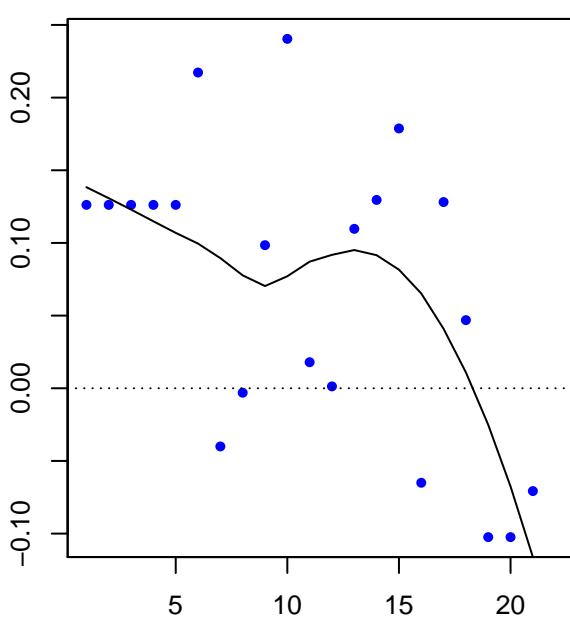
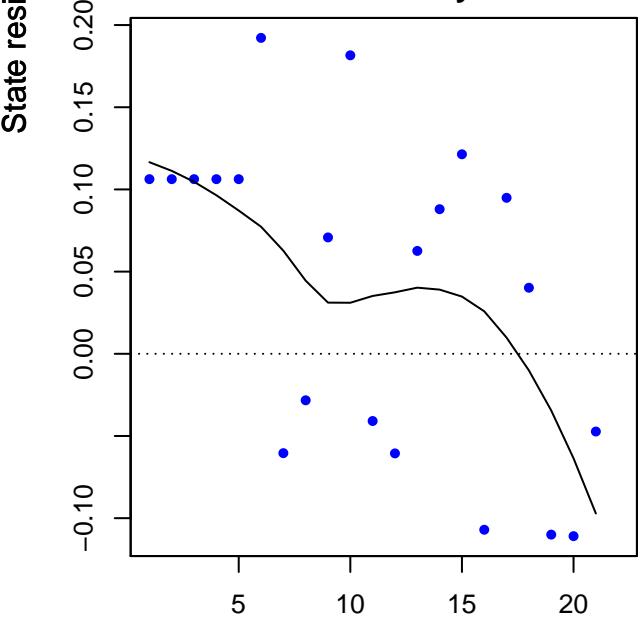


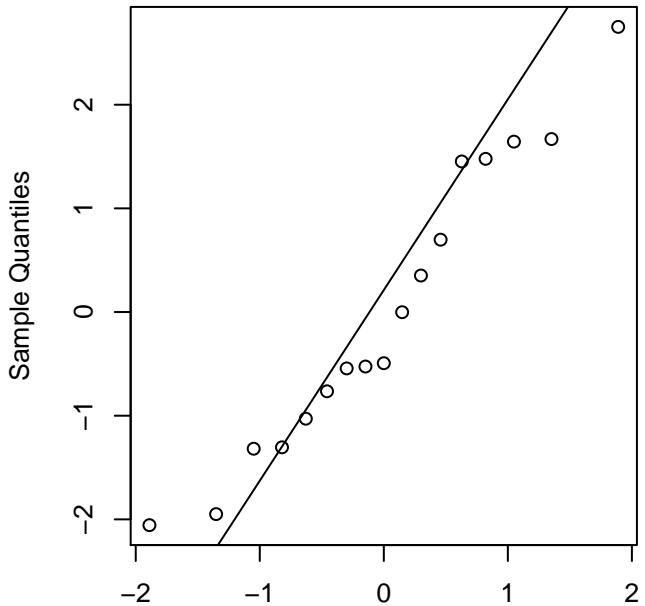
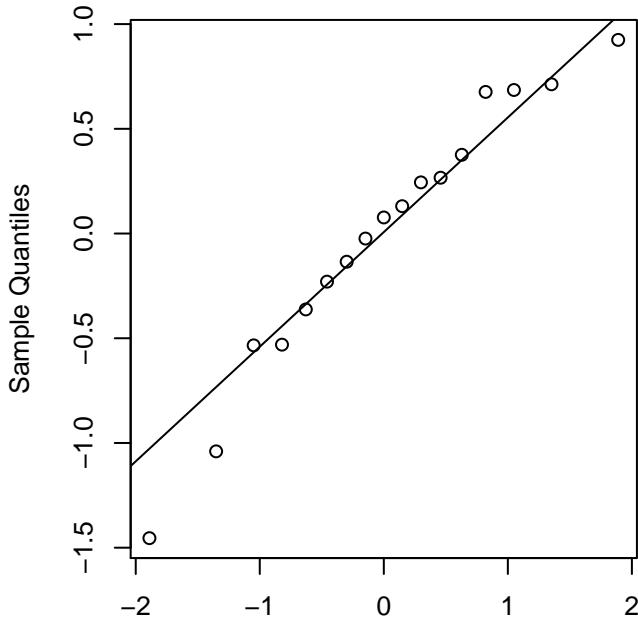
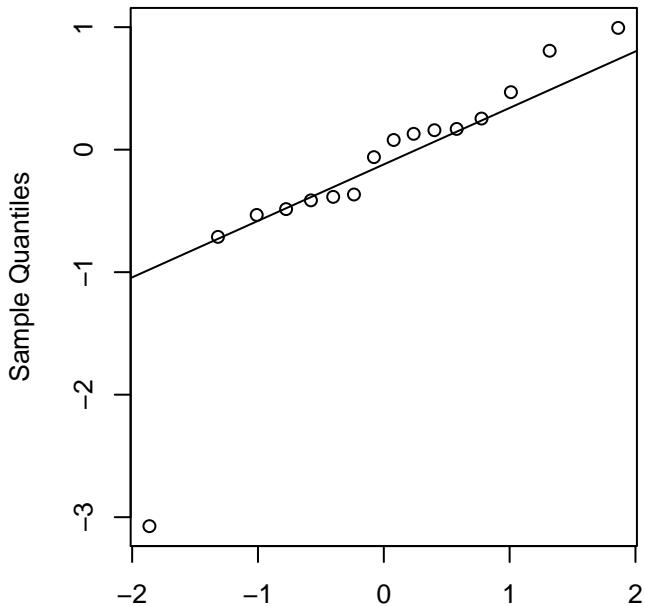
SJI

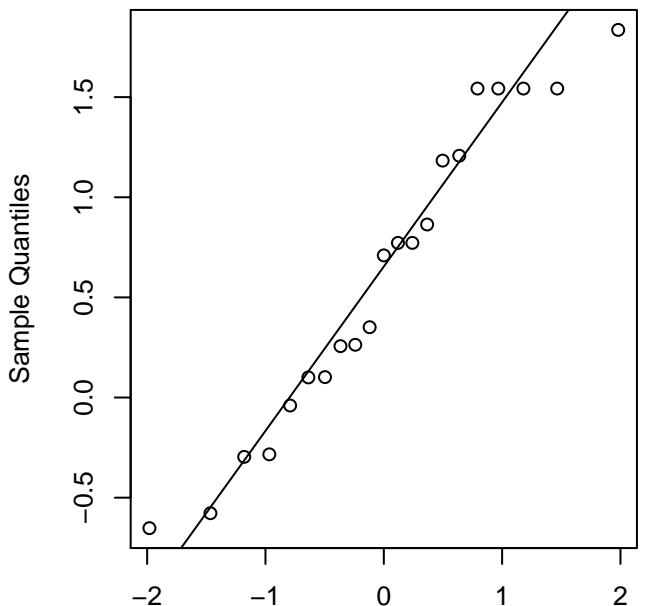
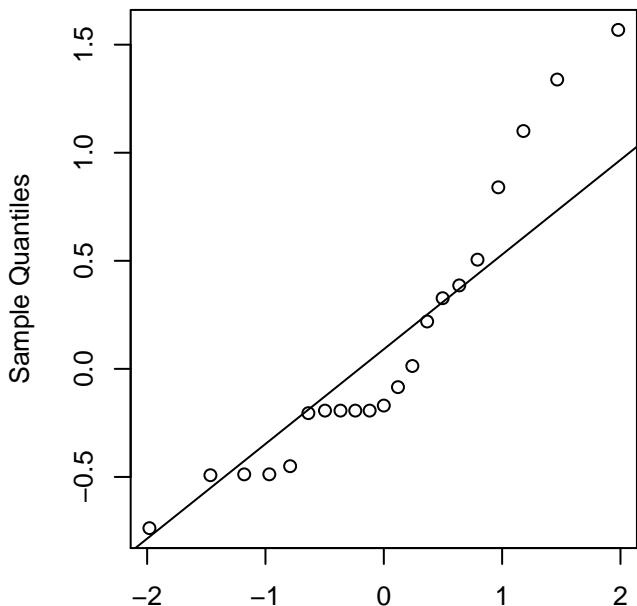
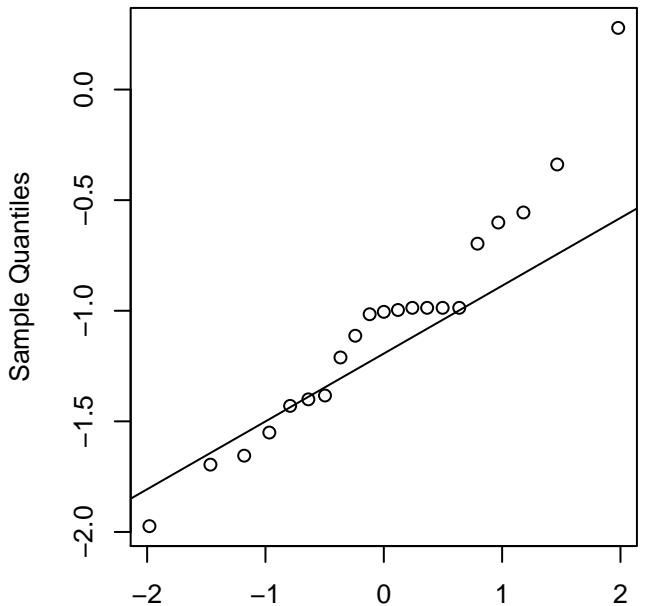


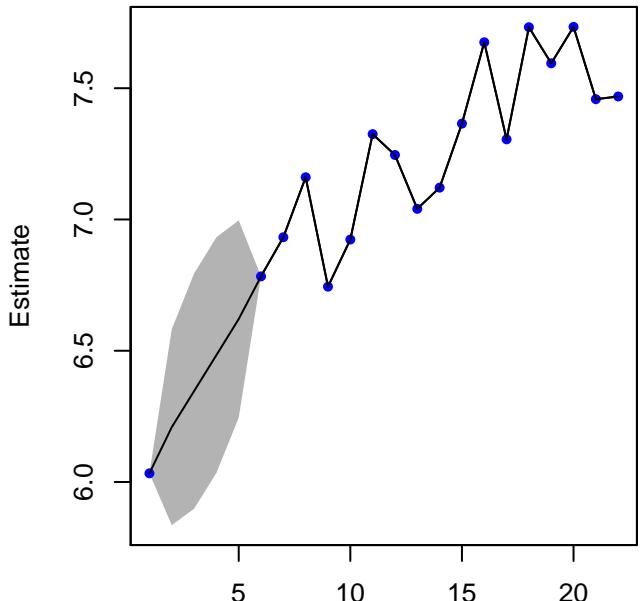
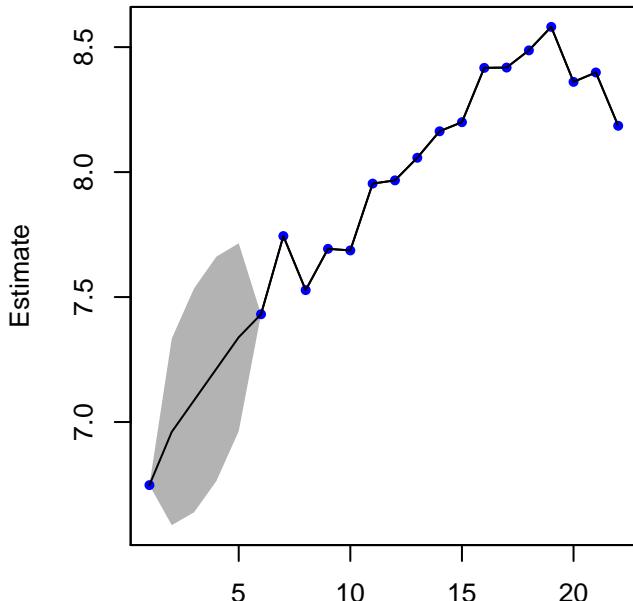
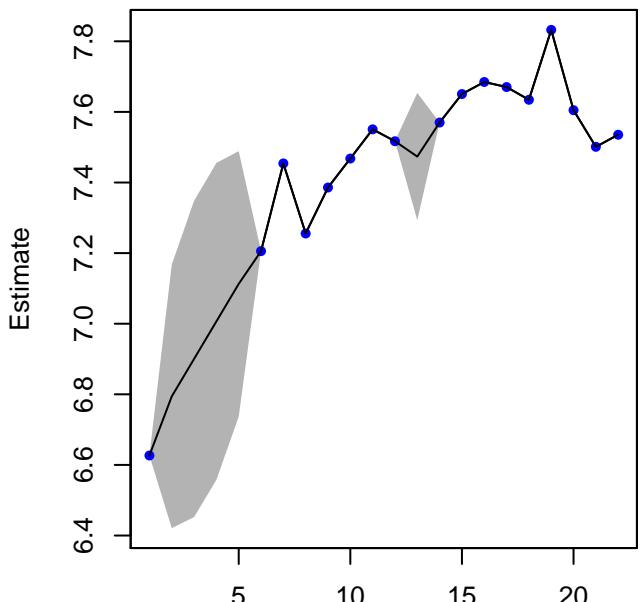
EBays

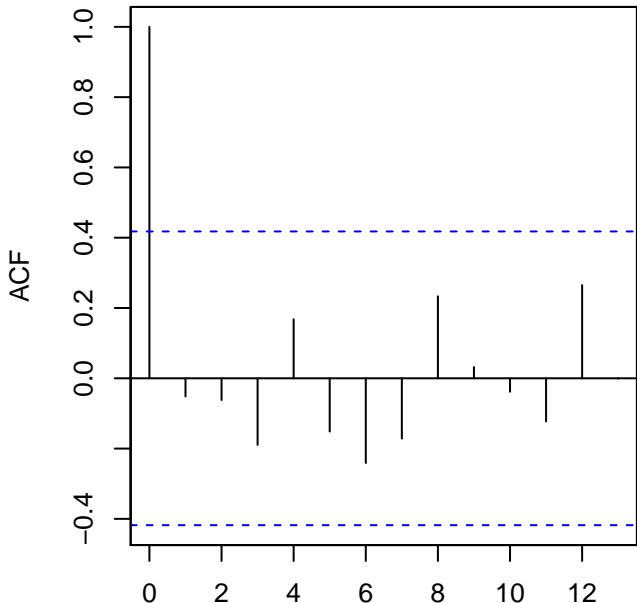
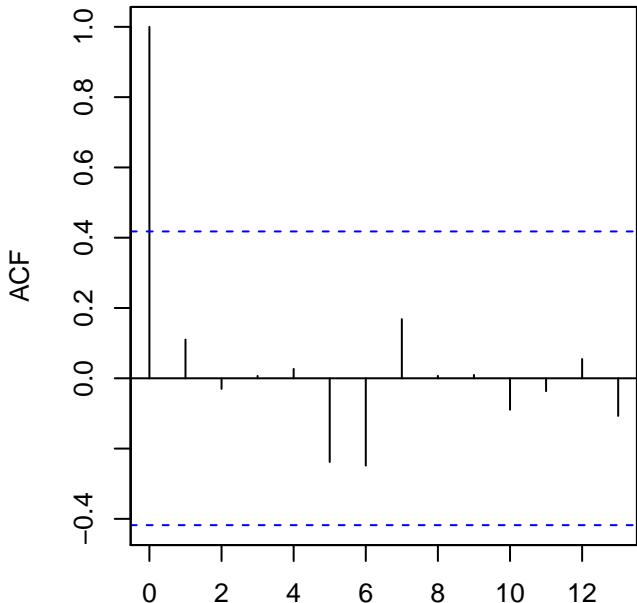
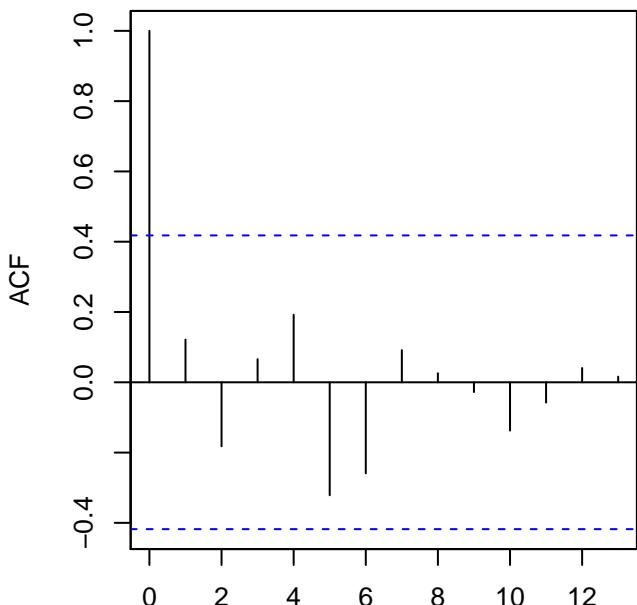


State X.SJF**State X.SJI****State X.EBays**

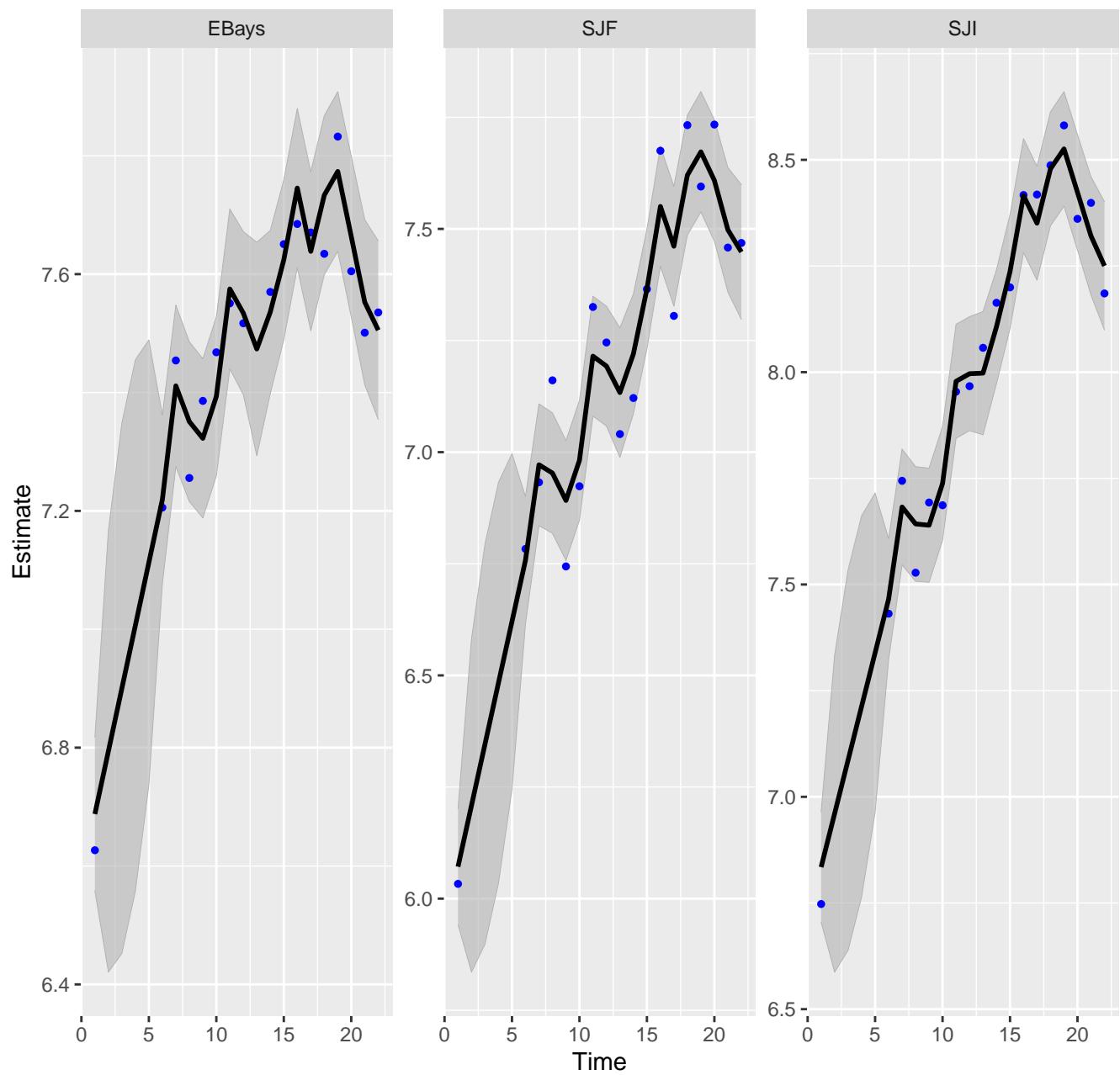
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

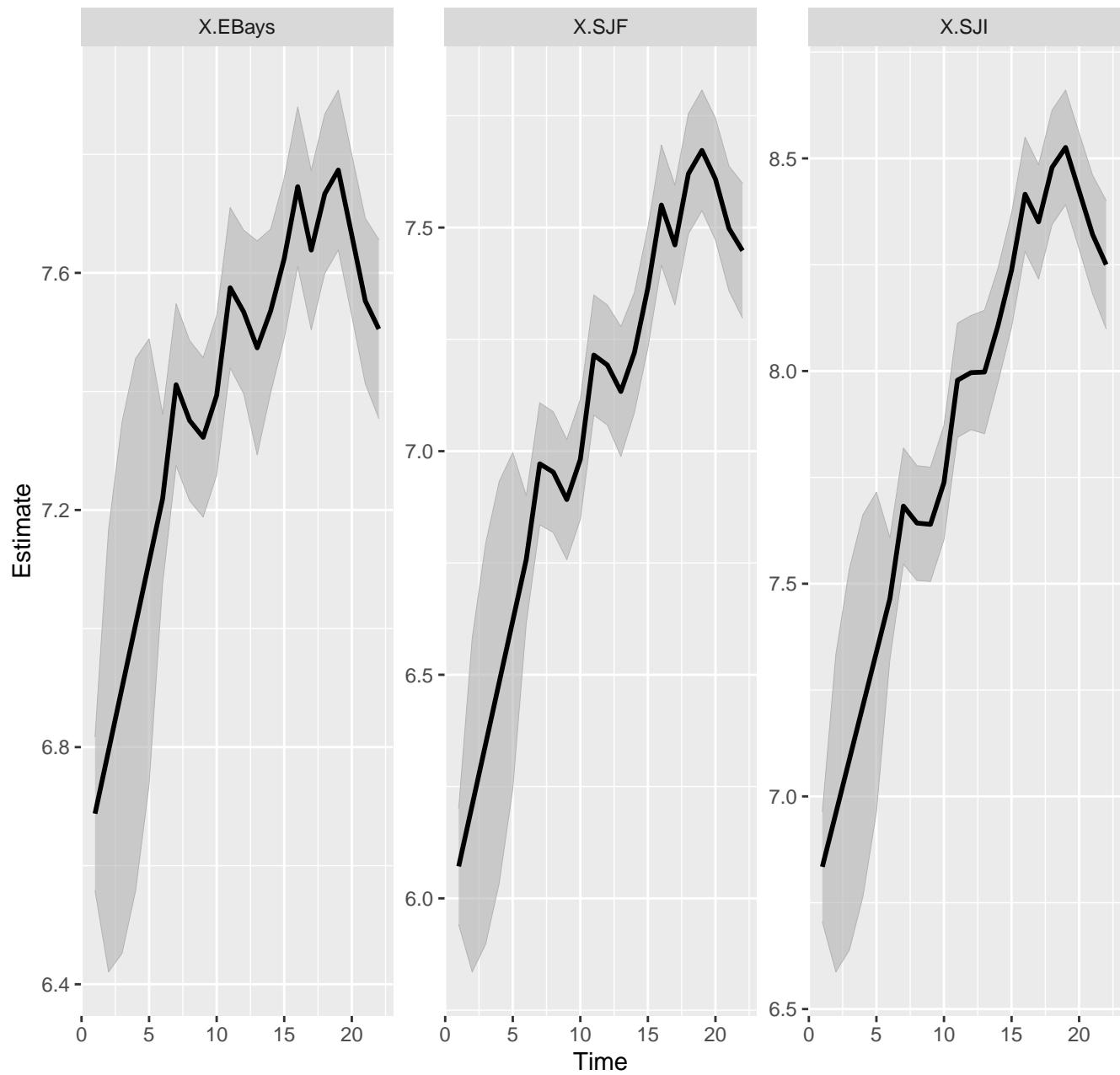
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

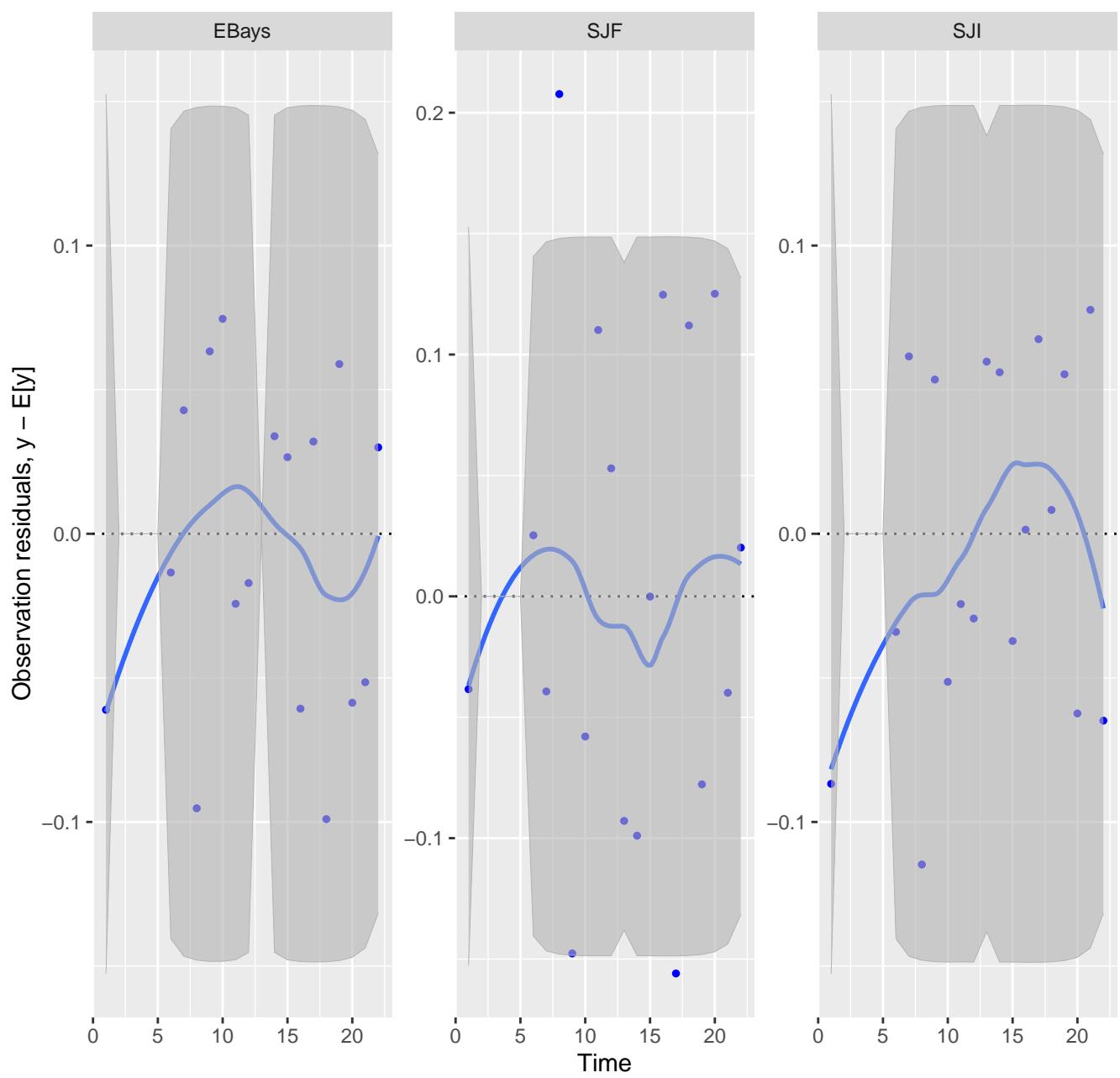
Model fitted Y + CI



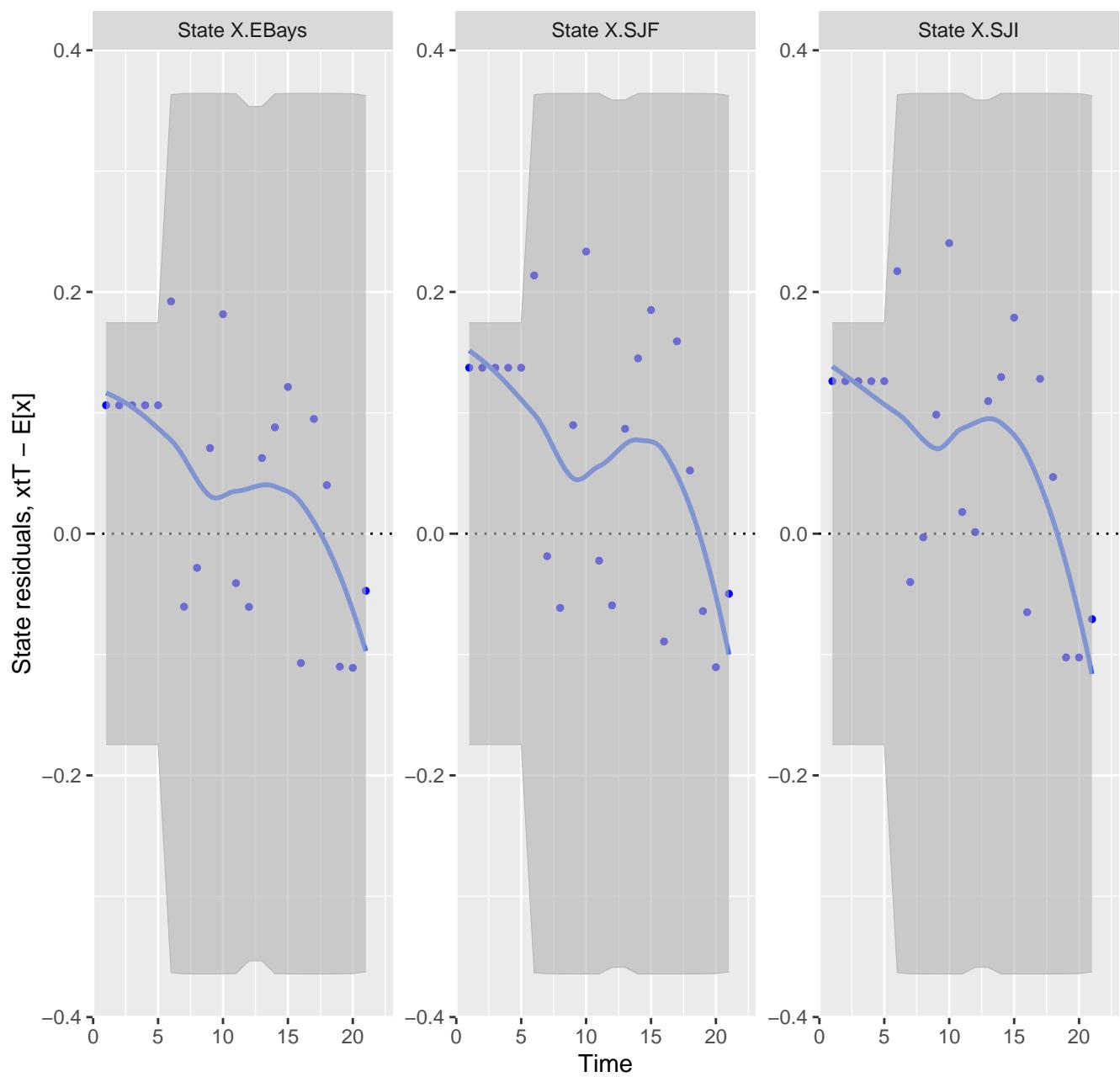
States



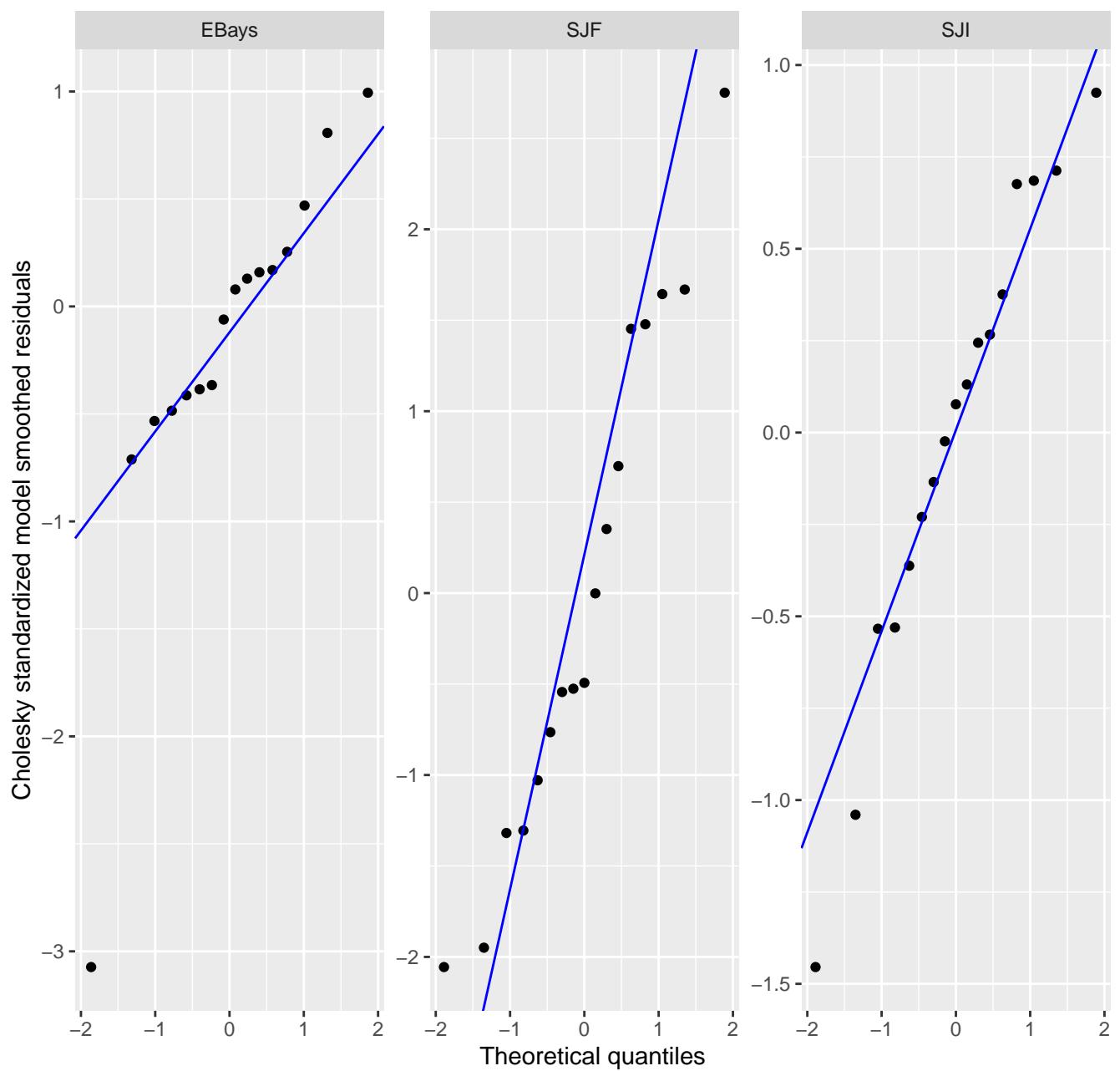
Model residuals



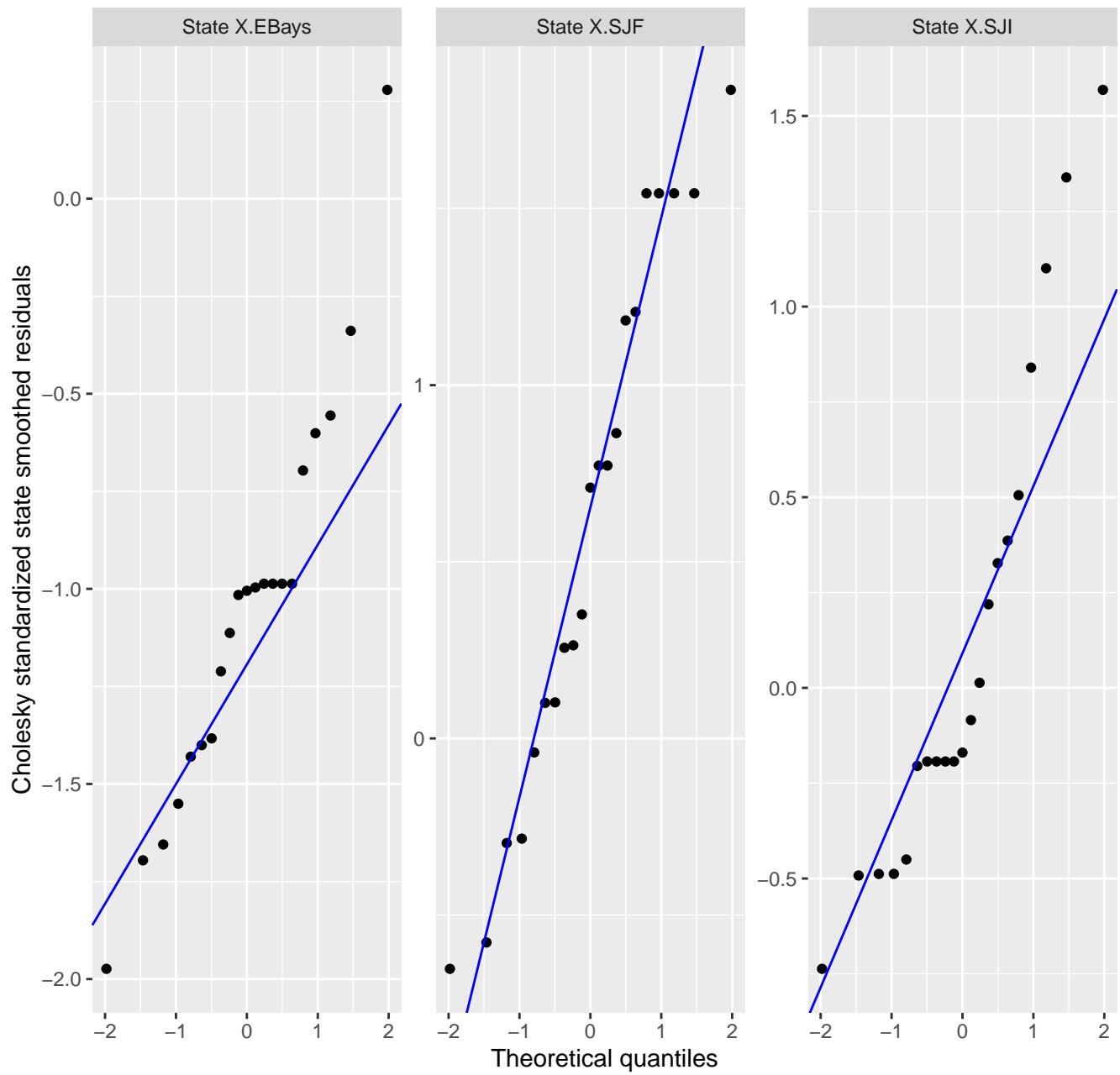
State residuals



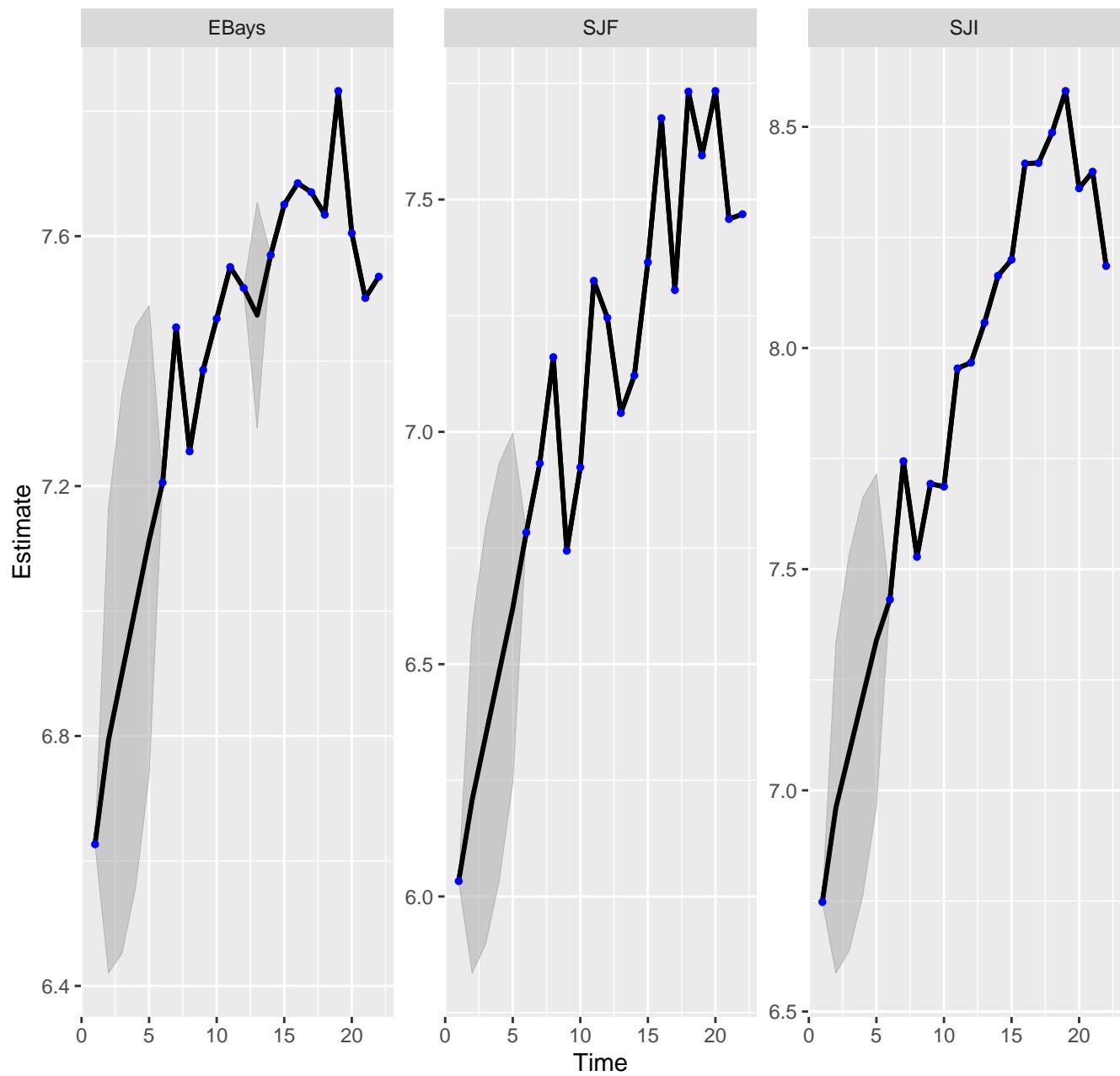
Model residuals normality test



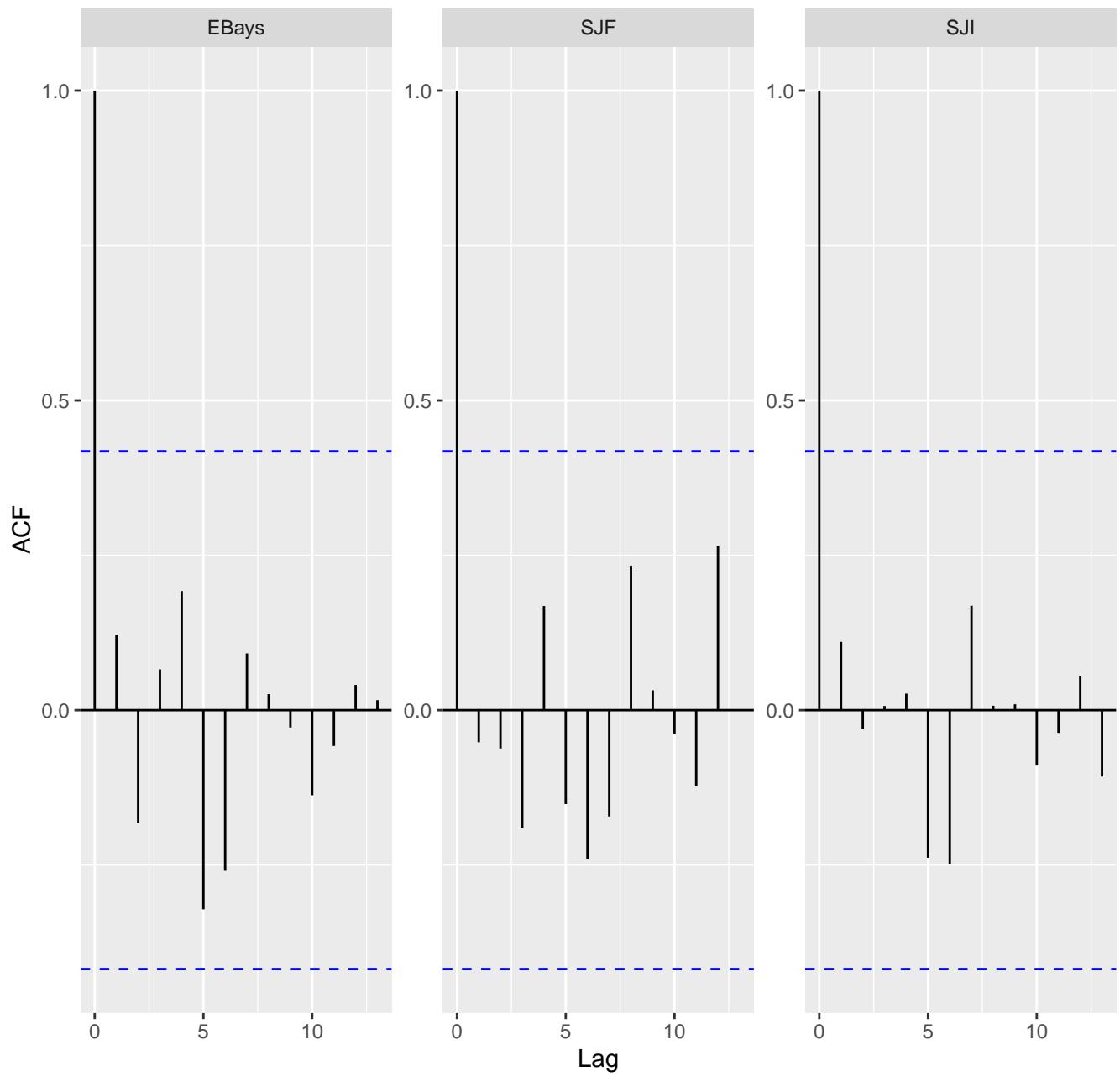
State residuals normality test

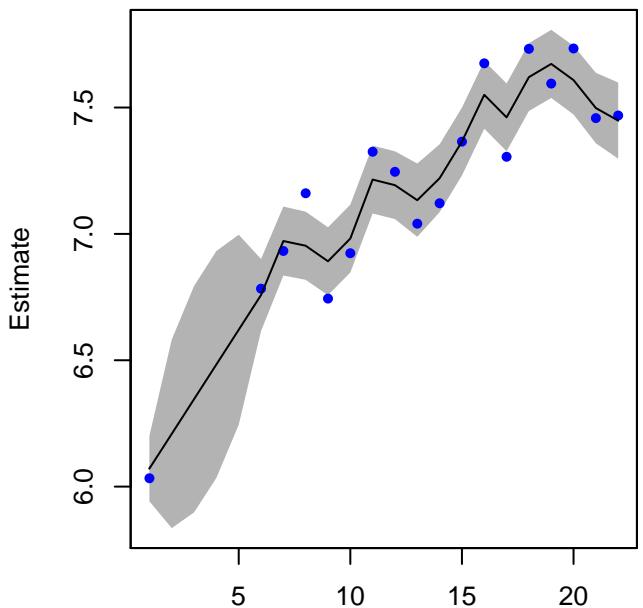
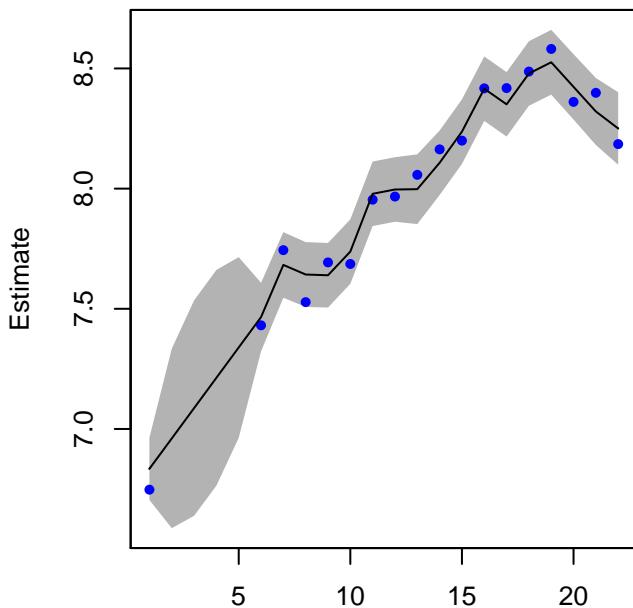
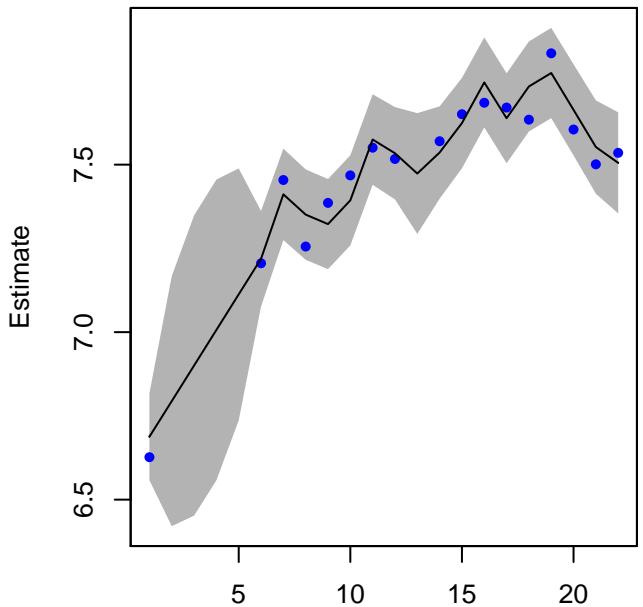


Expected value of Y conditioned on data

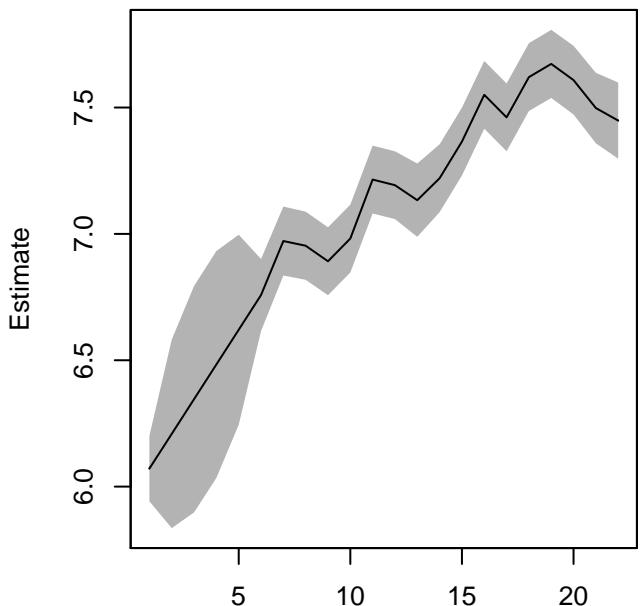


Model innovations residuals ACF

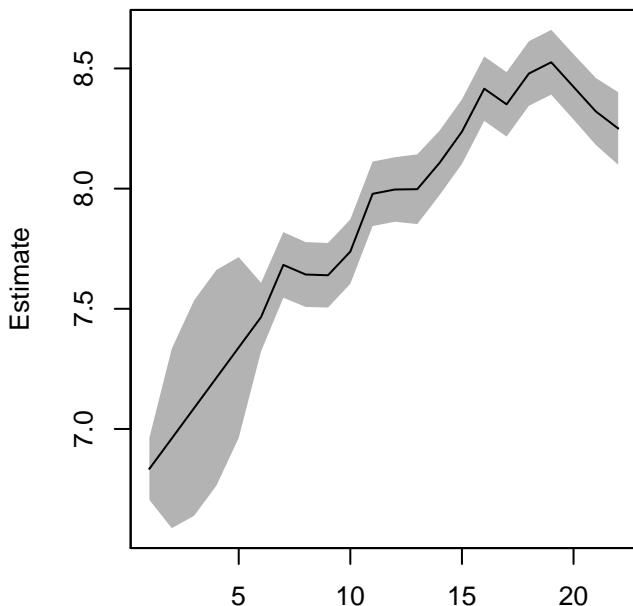


SJF + CI**SJI + CI****EBays + CI**

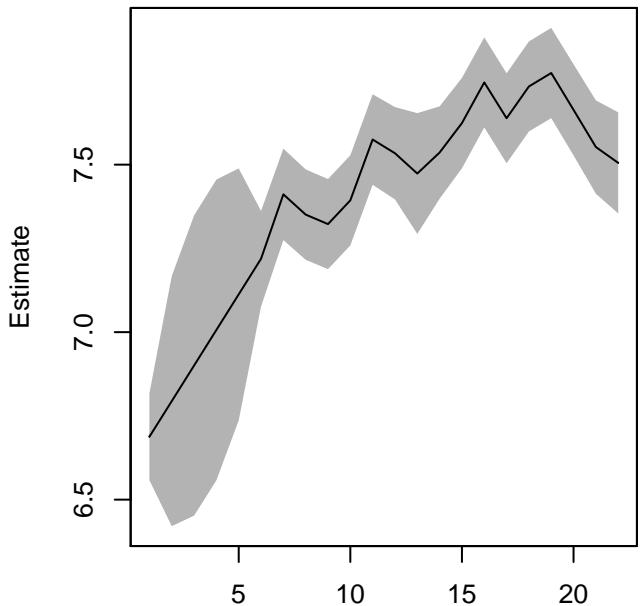
State X.SJF



State X.SJI

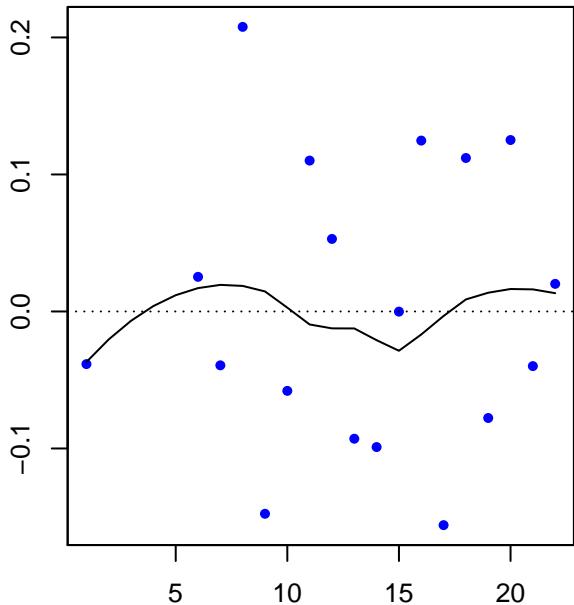


State X.EBays

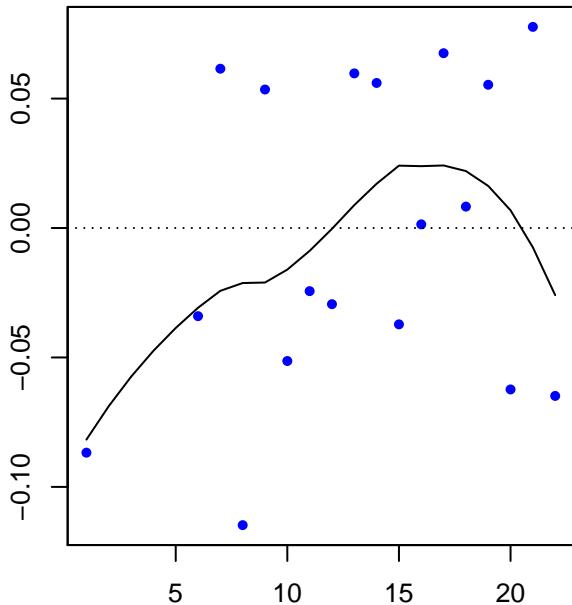


Observation residuals, $y - E[y]$

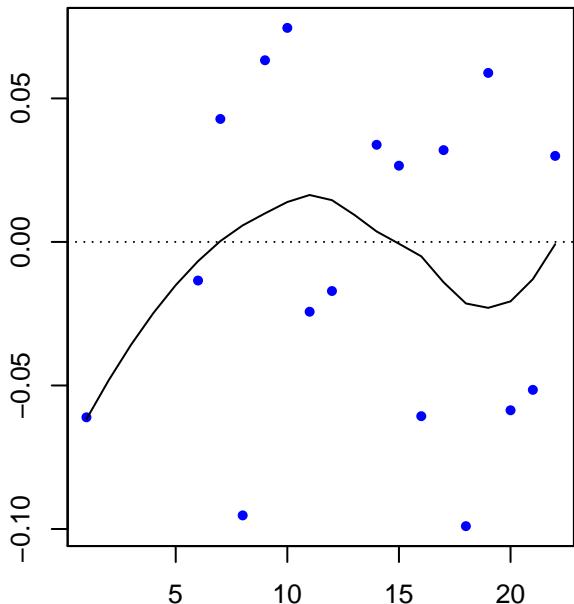
SJF

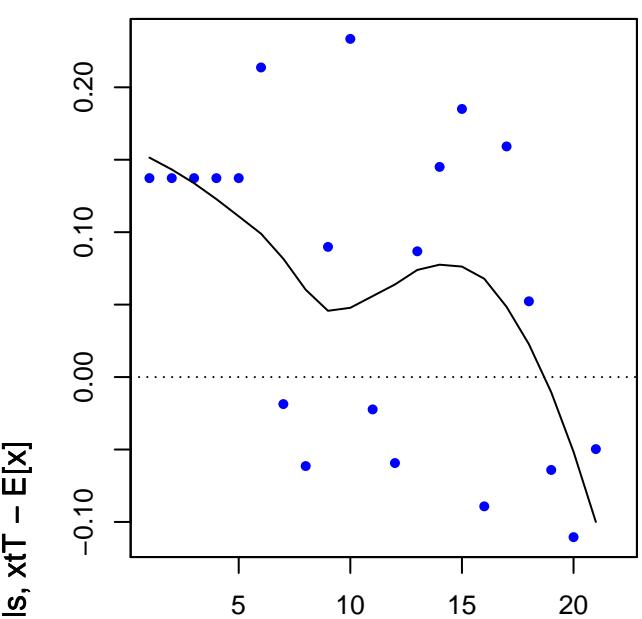
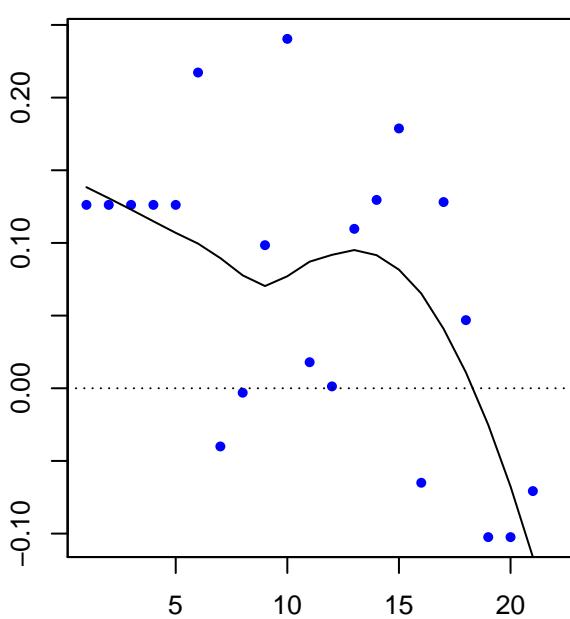
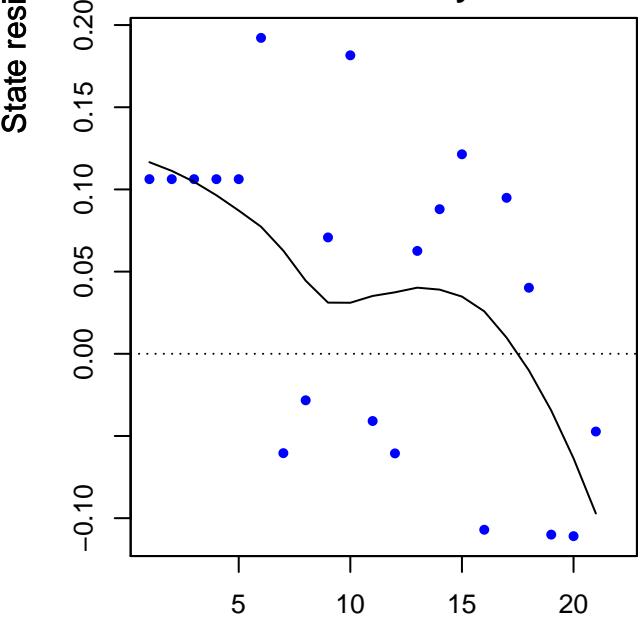


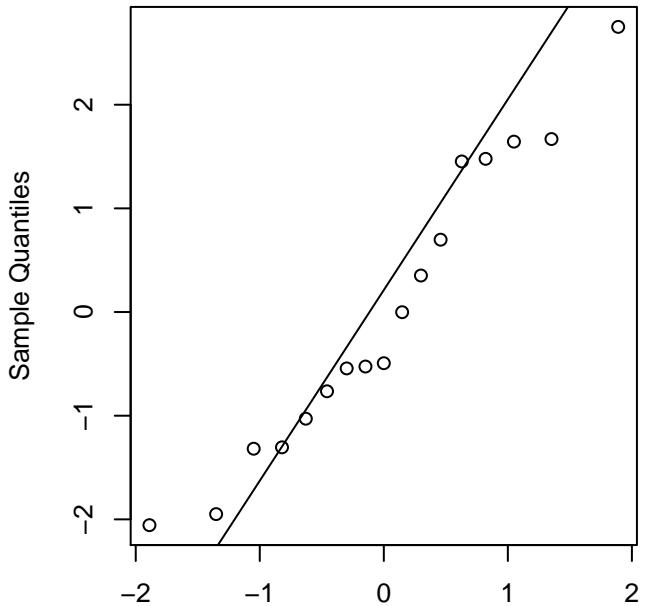
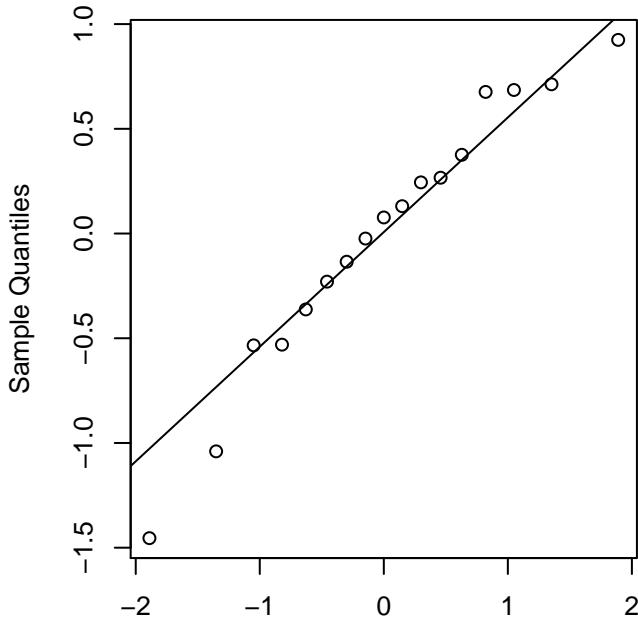
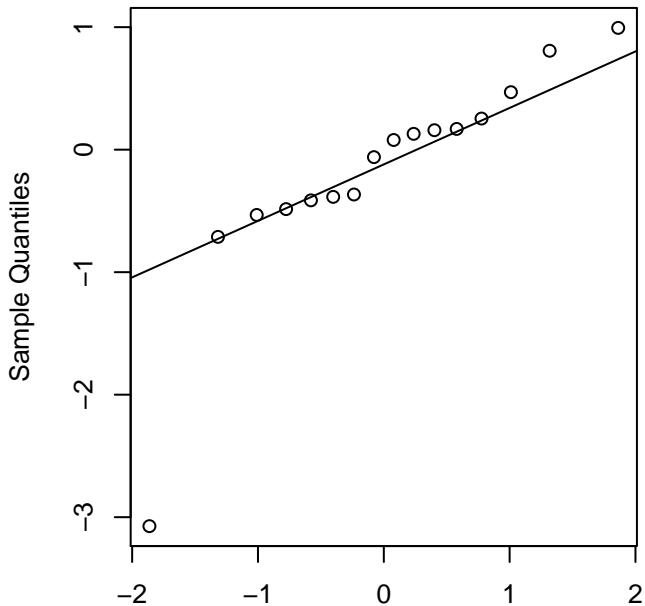
SJI

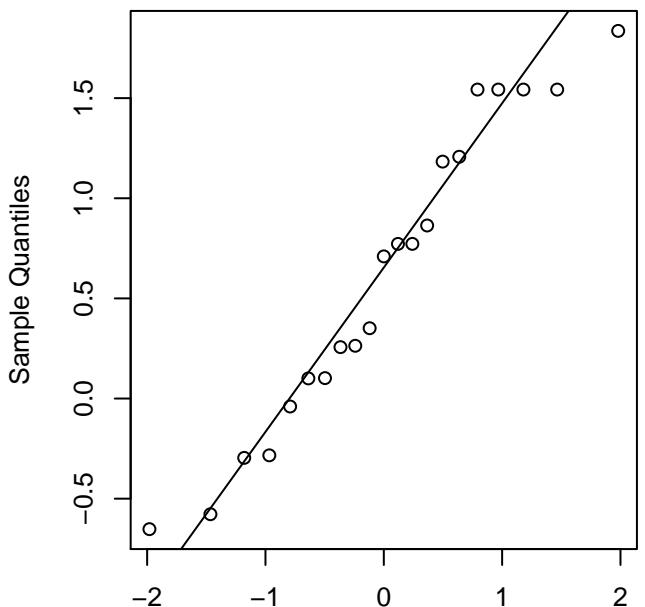
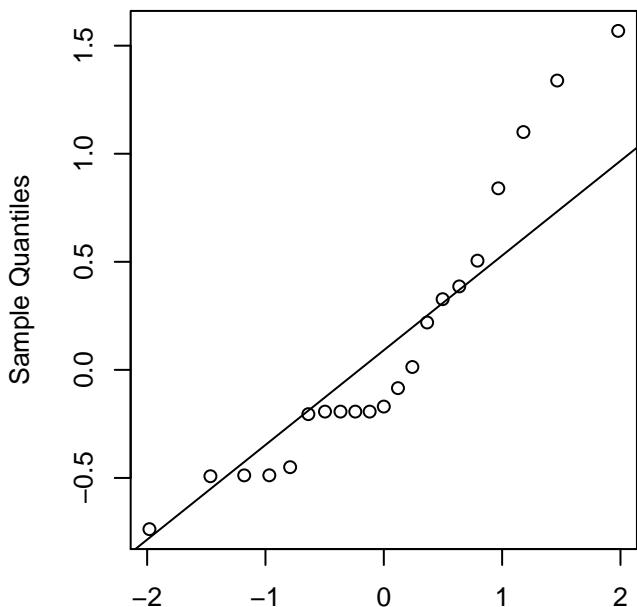
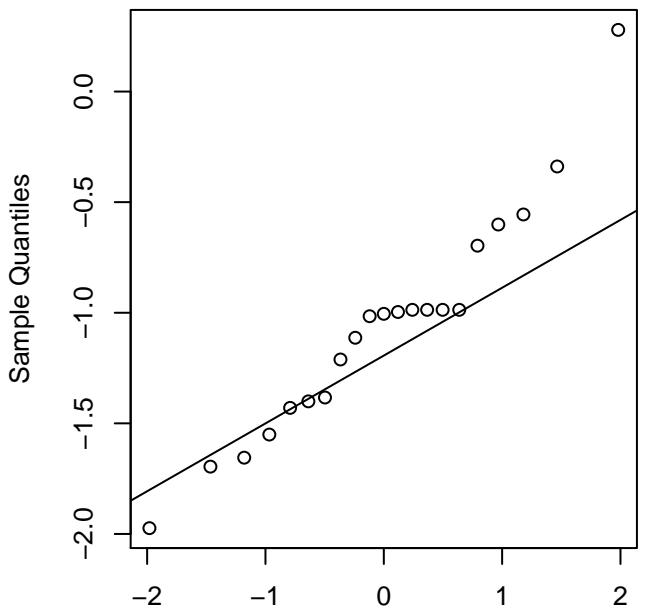


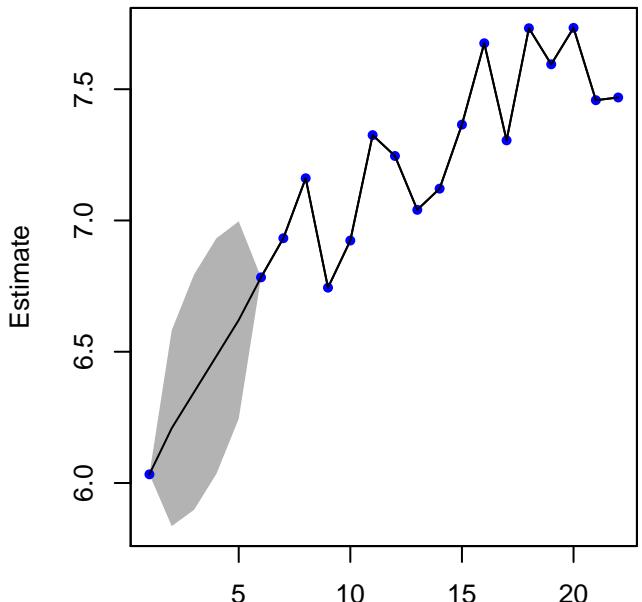
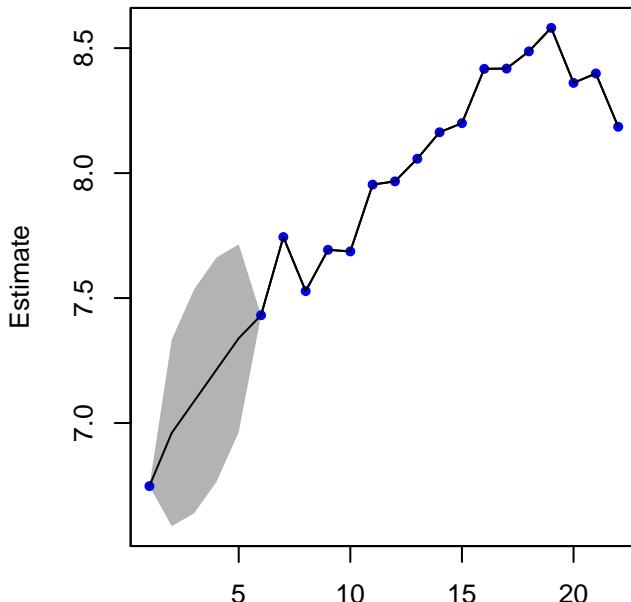
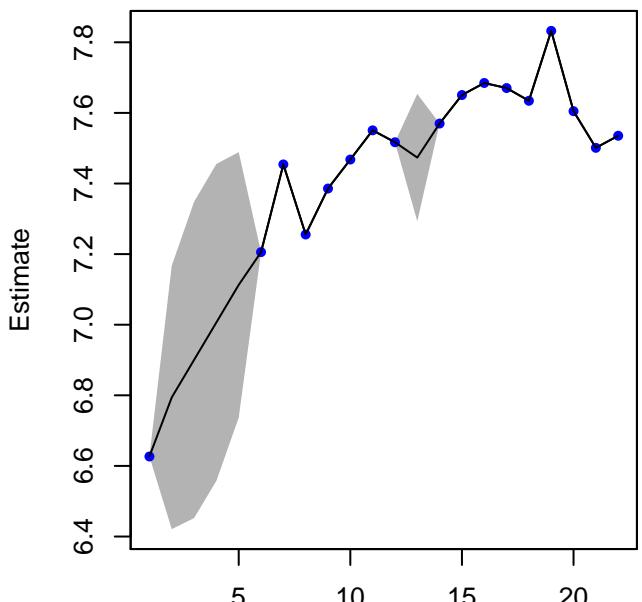
EBays

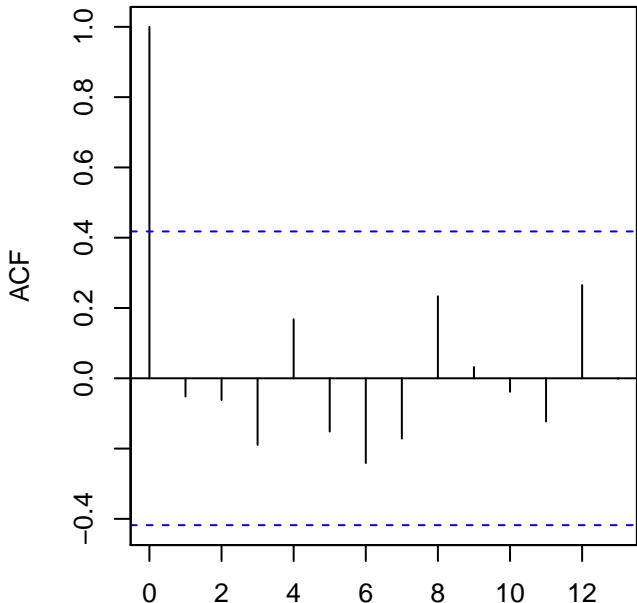
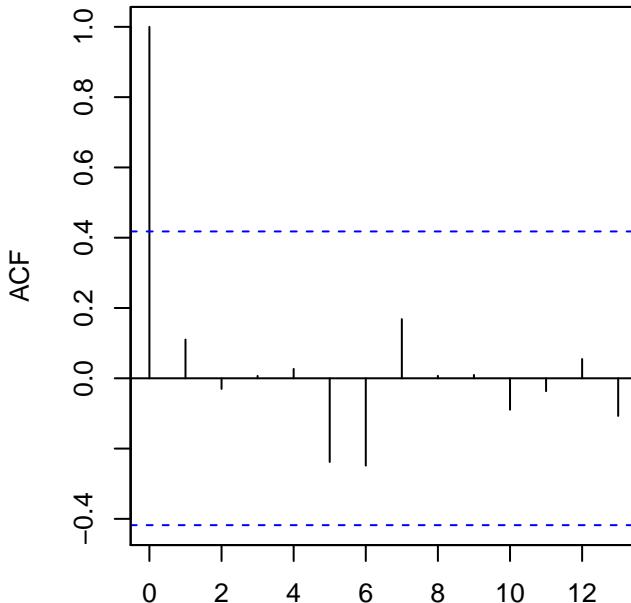
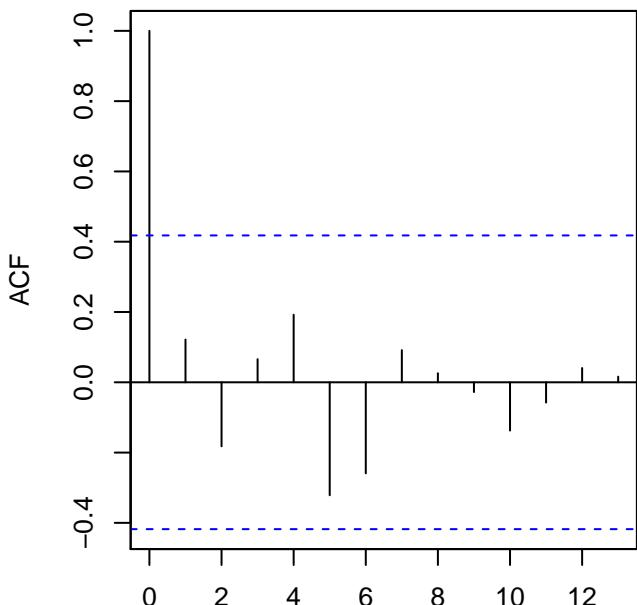


State X.SJF**State X.SJI****State X.EBays**

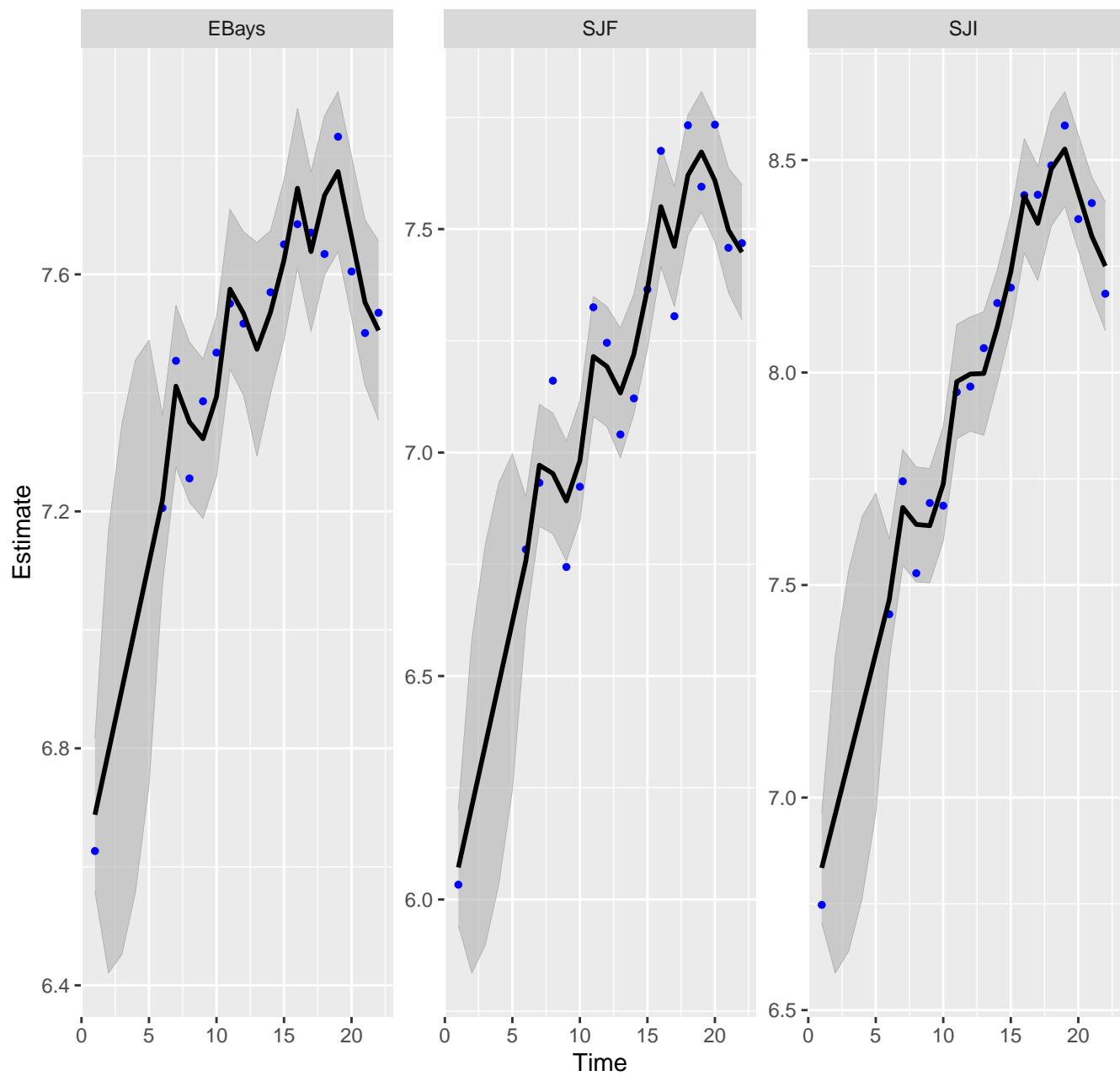
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

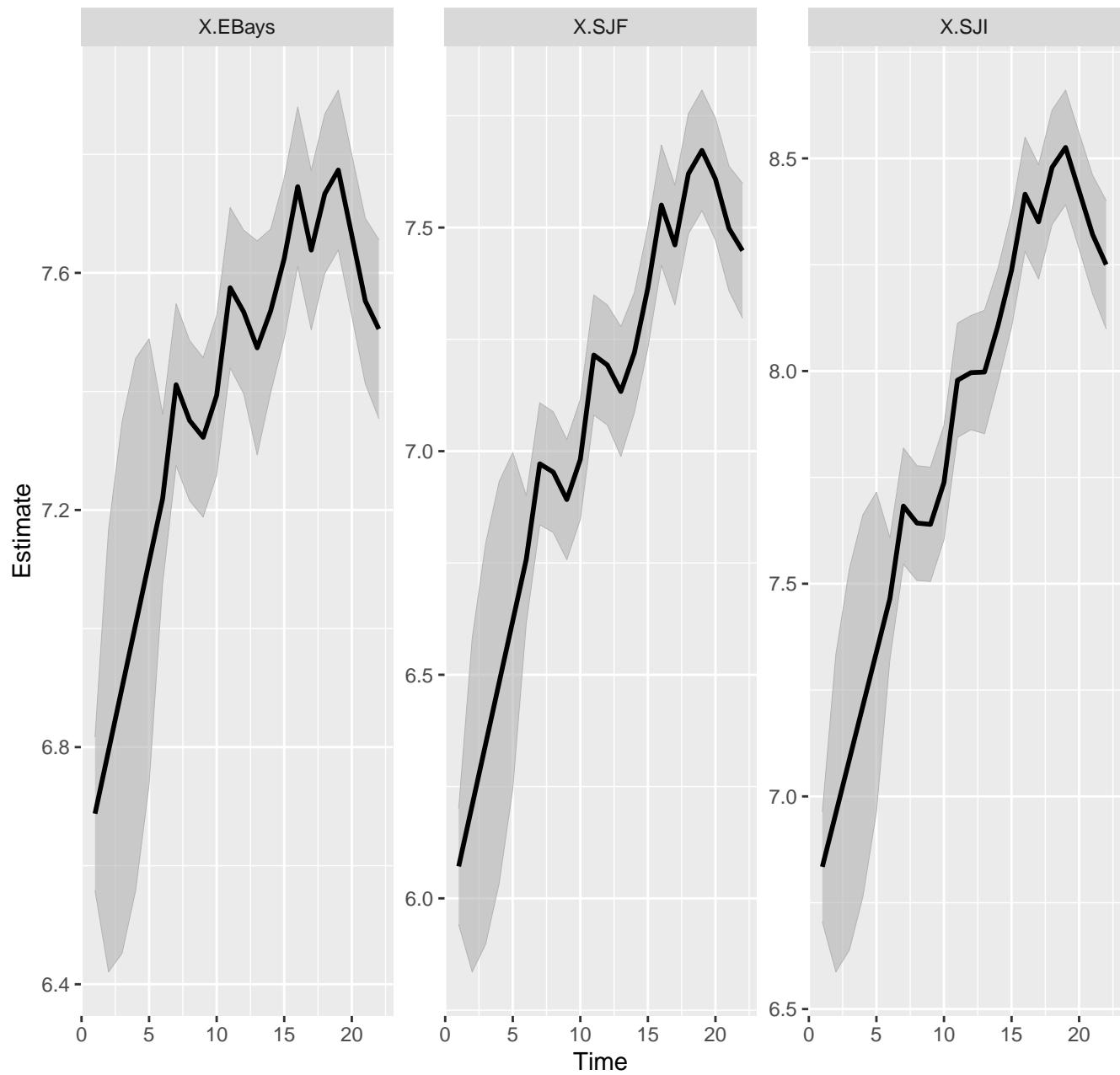
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

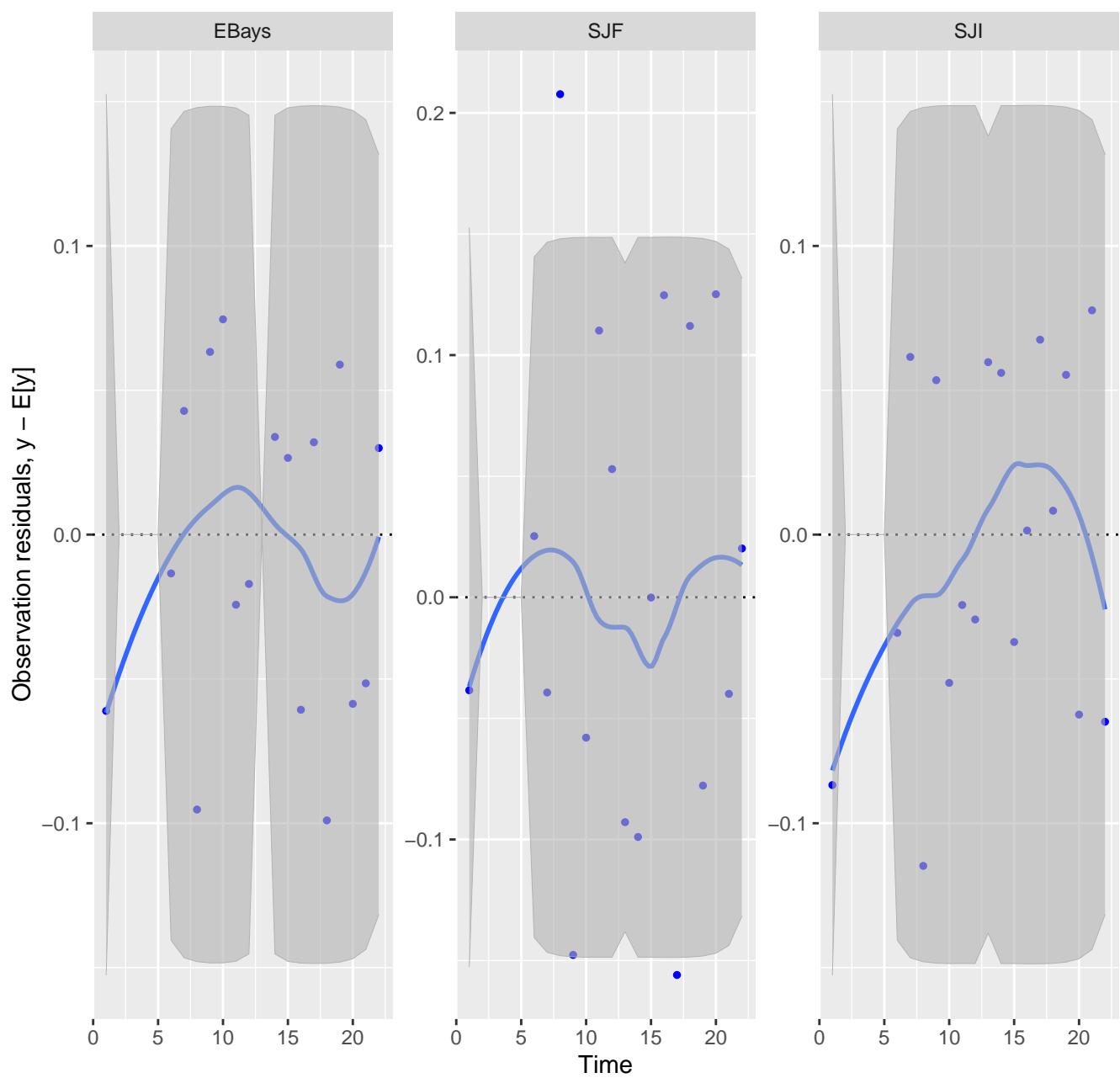
Model fitted Y + CI



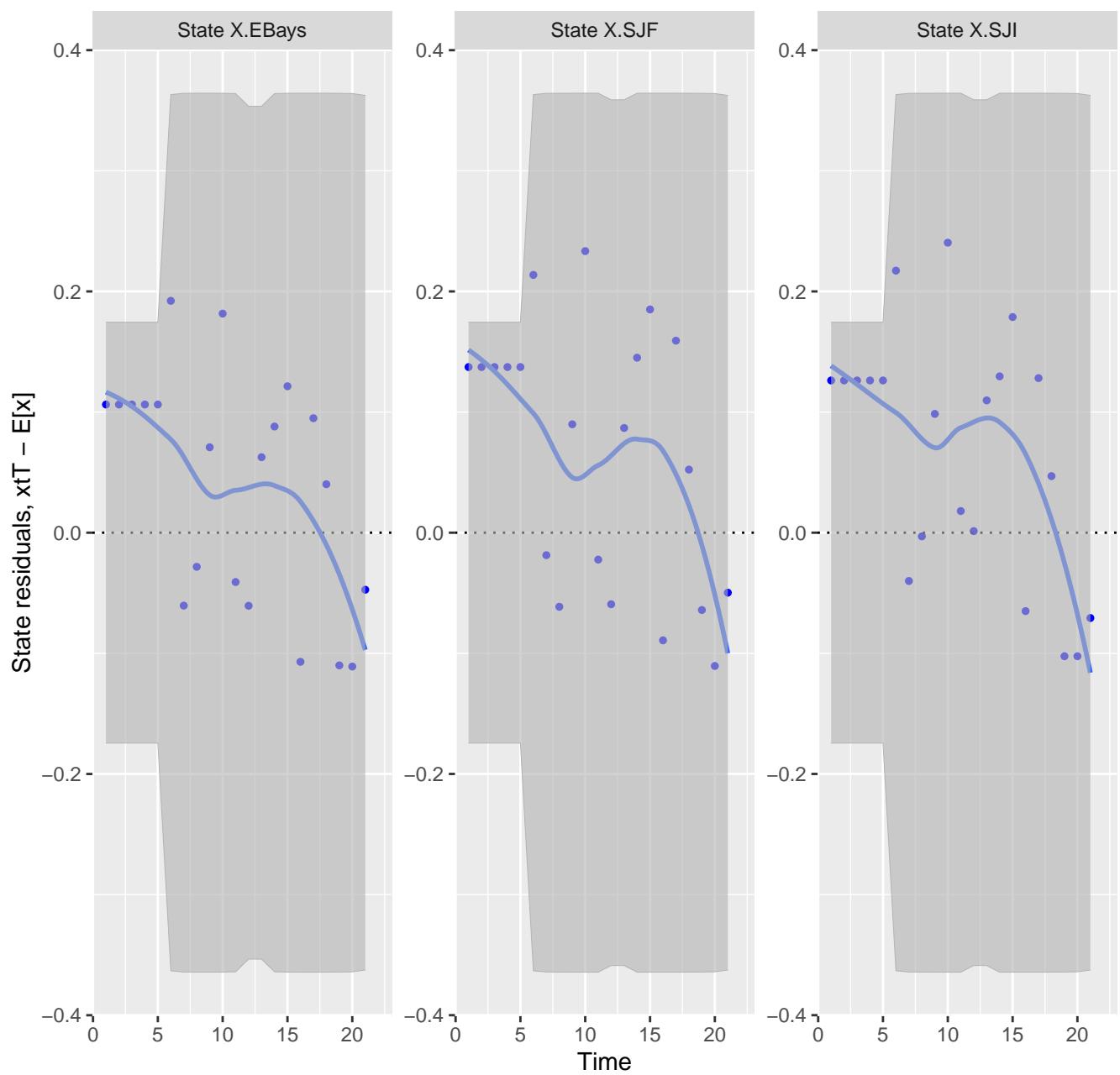
States



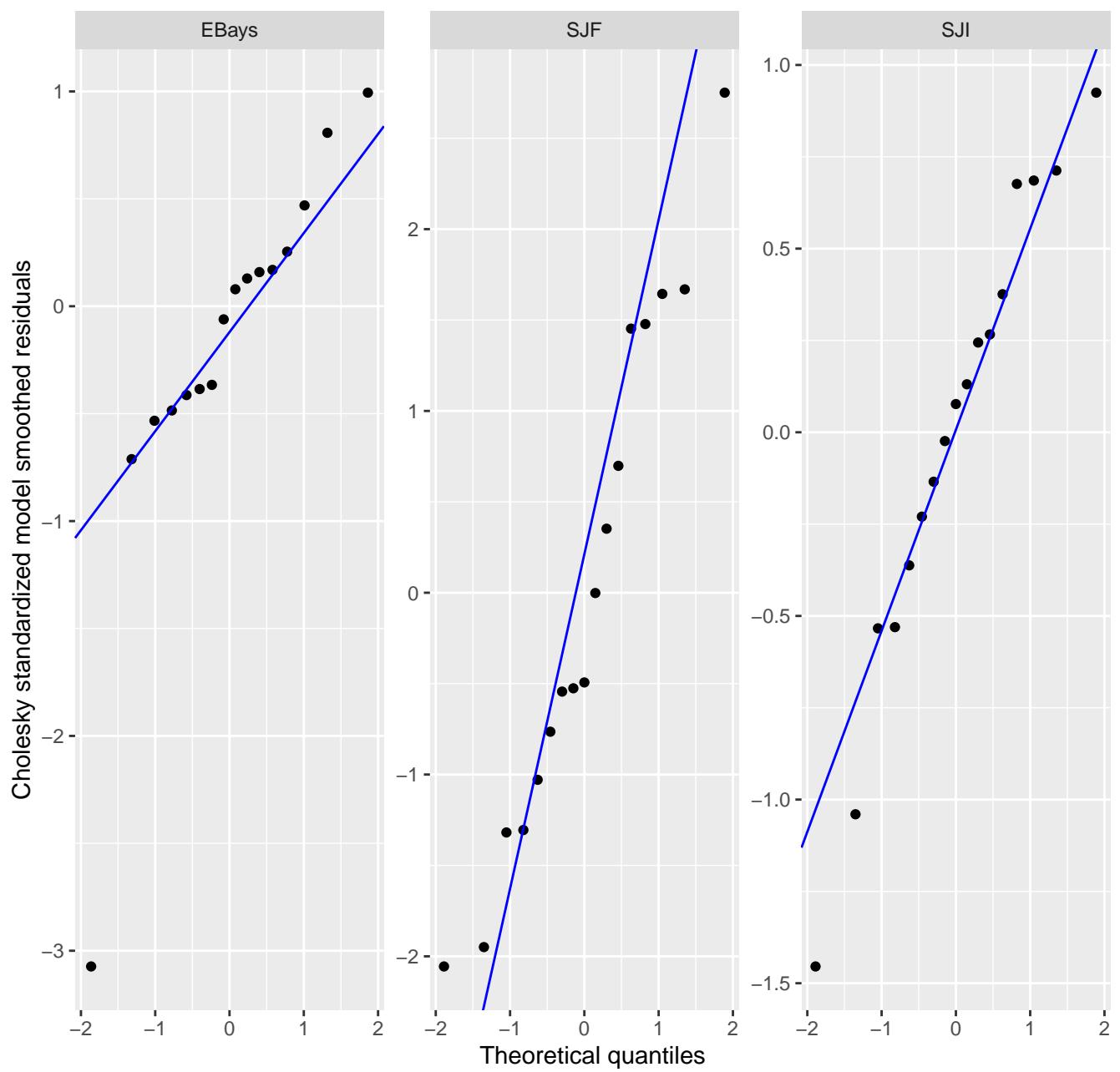
Model residuals



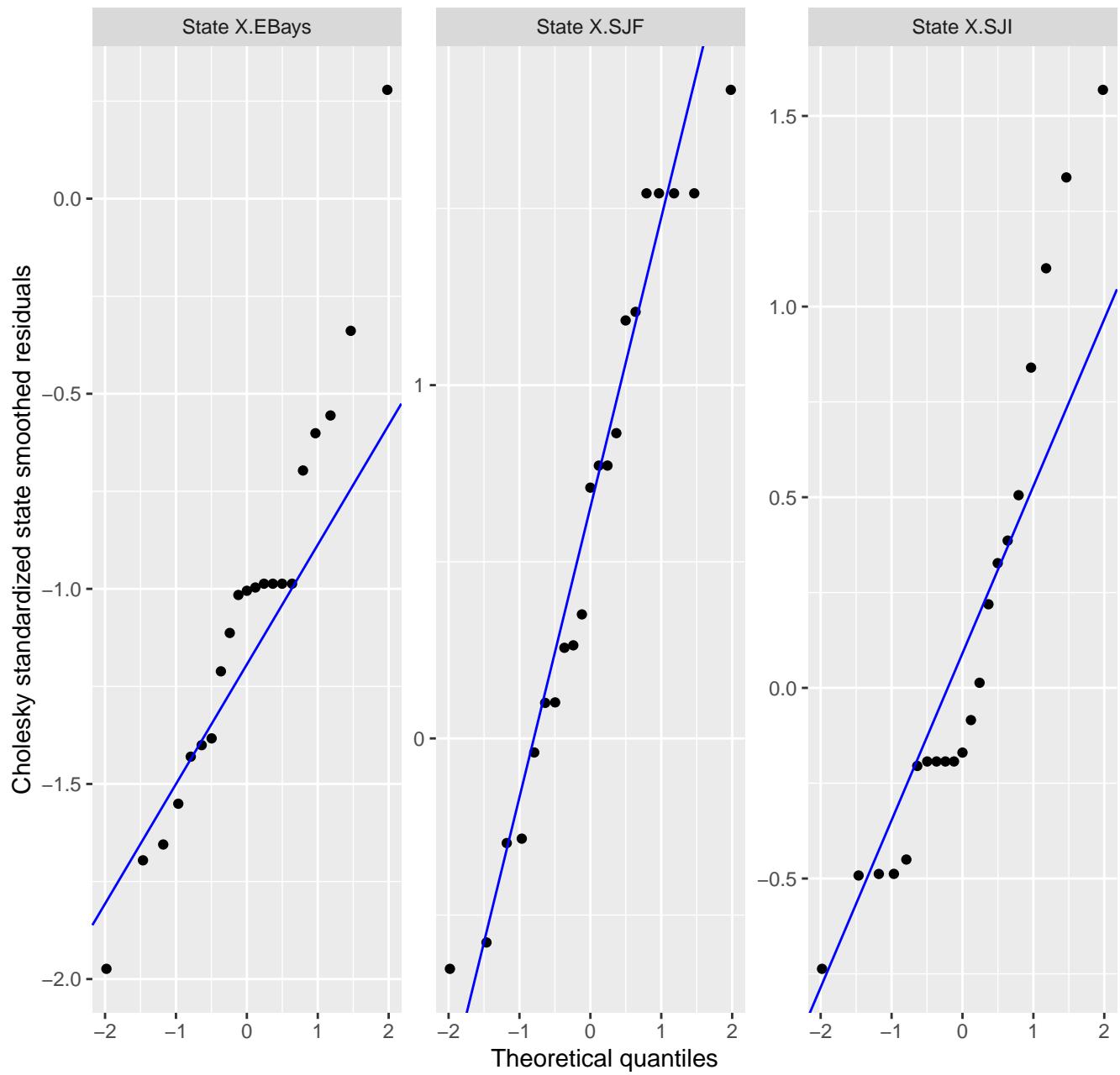
State residuals



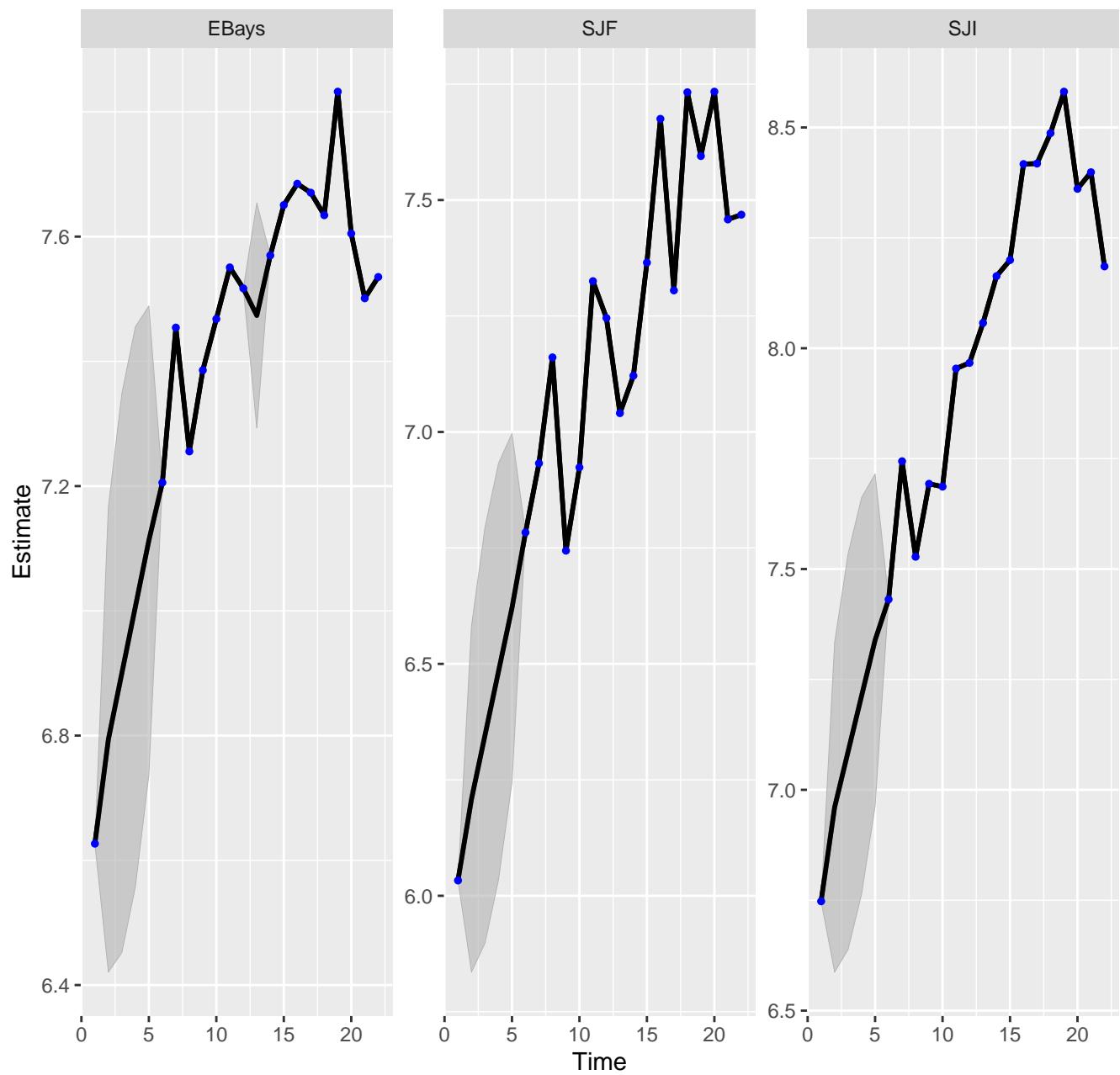
Model residuals normality test



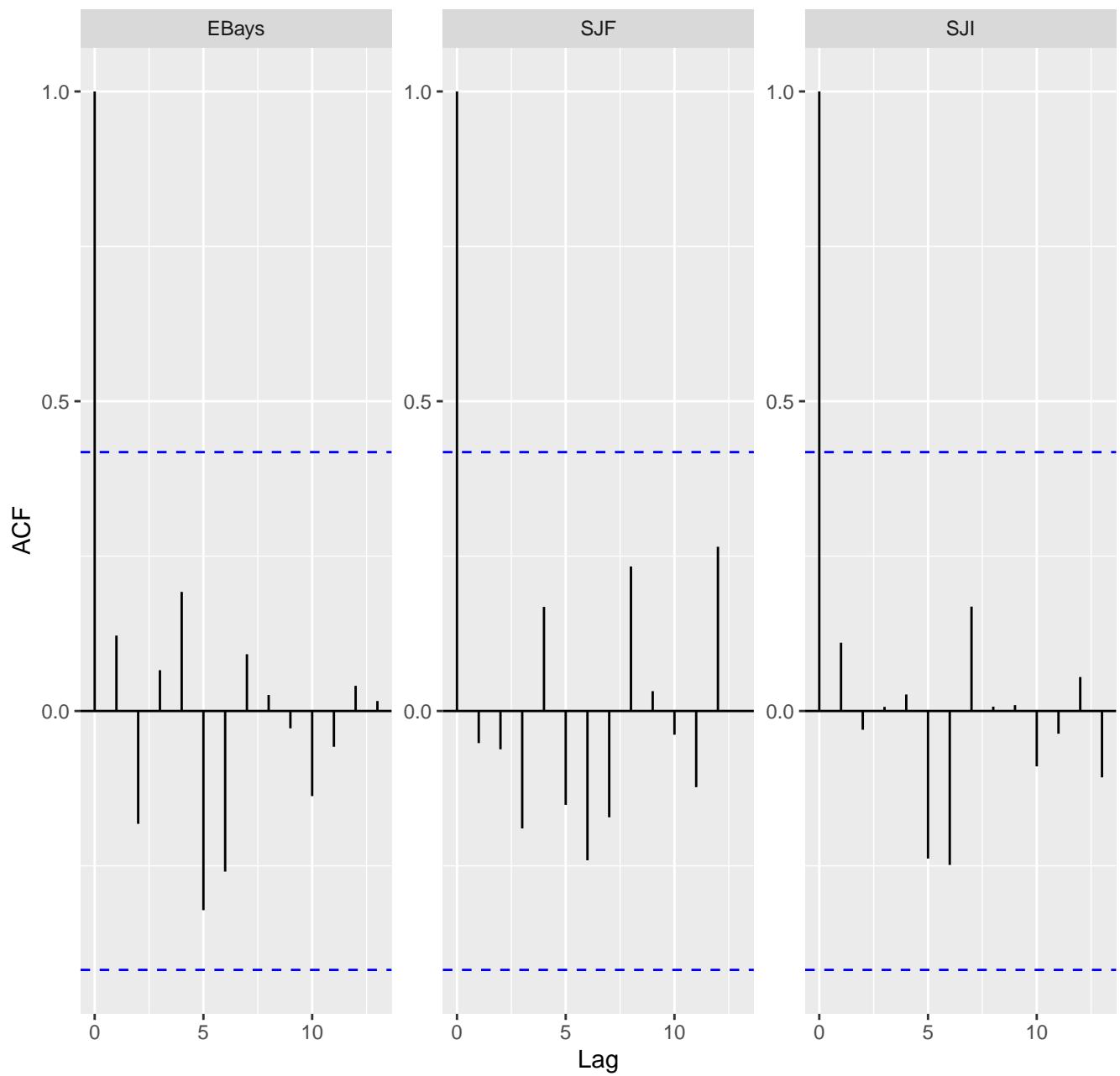
State residuals normality test

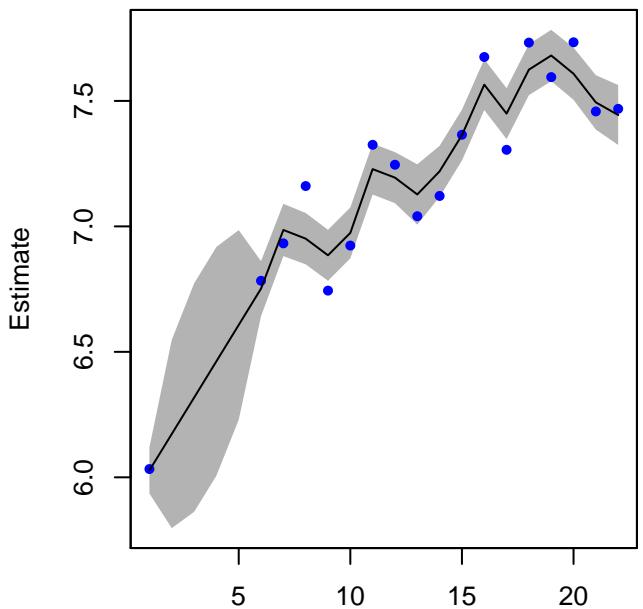
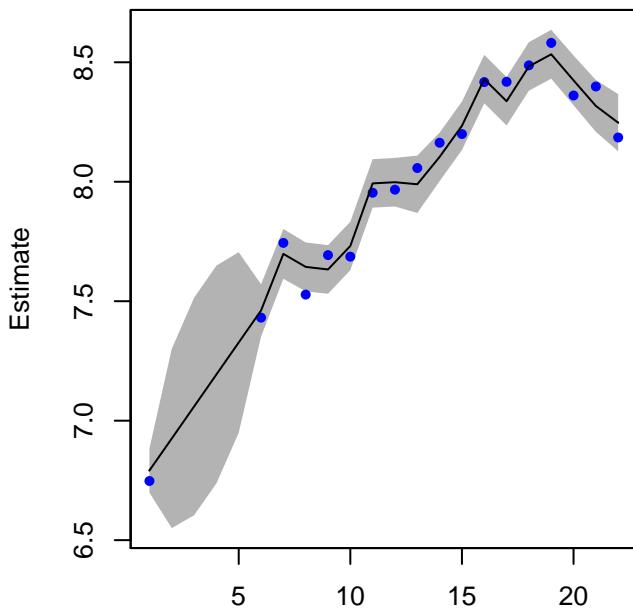
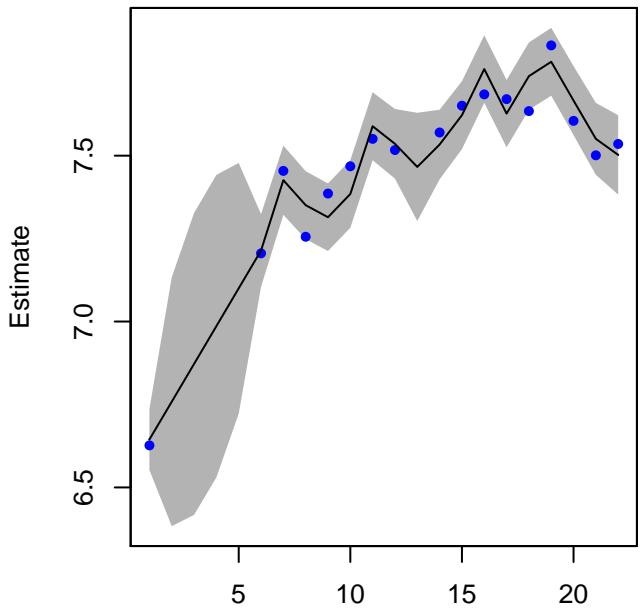


Expected value of Y conditioned on data

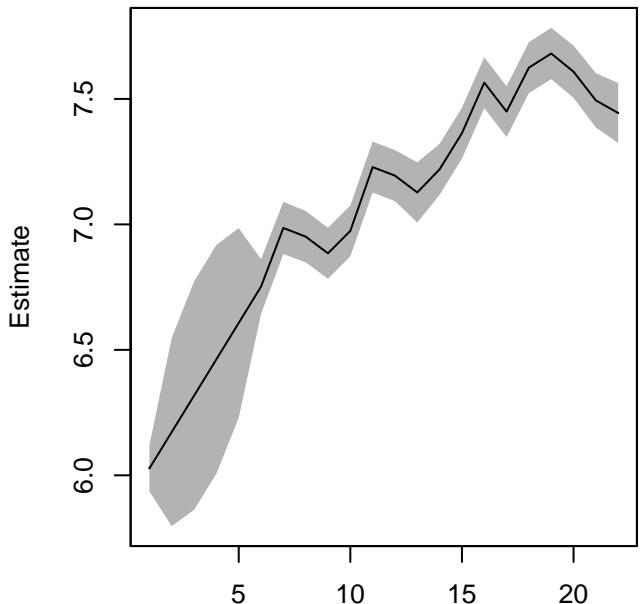


Model innovations residuals ACF

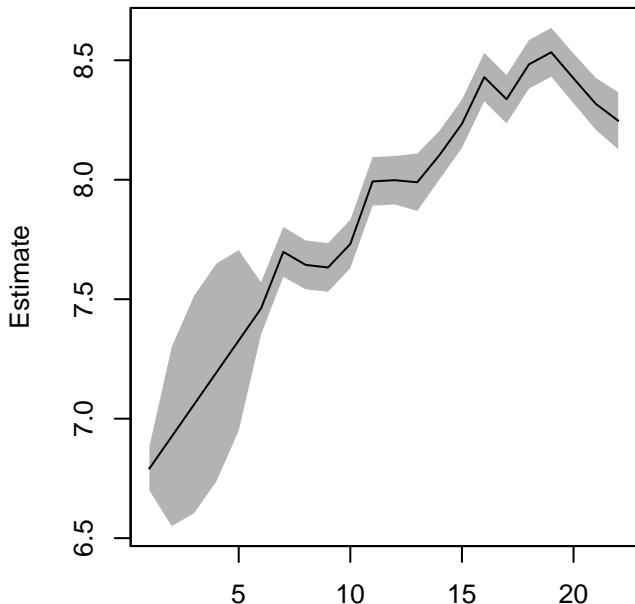


SJF + CI**SJI + CI****EBays + CI**

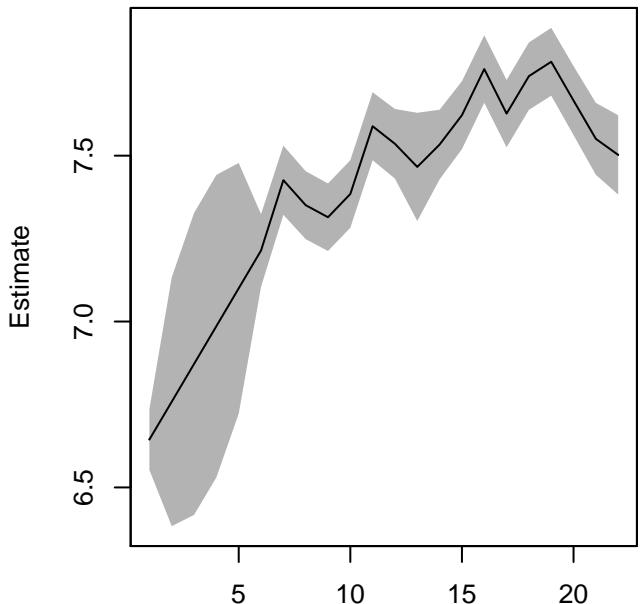
State X.SJF



State X.SJI

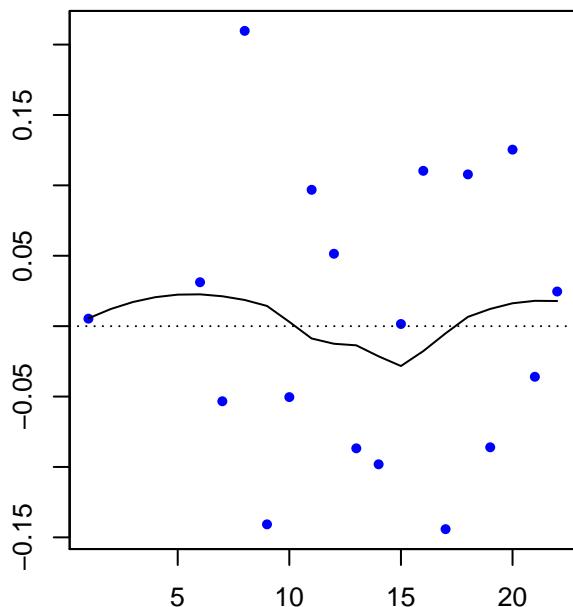


State X.EBays

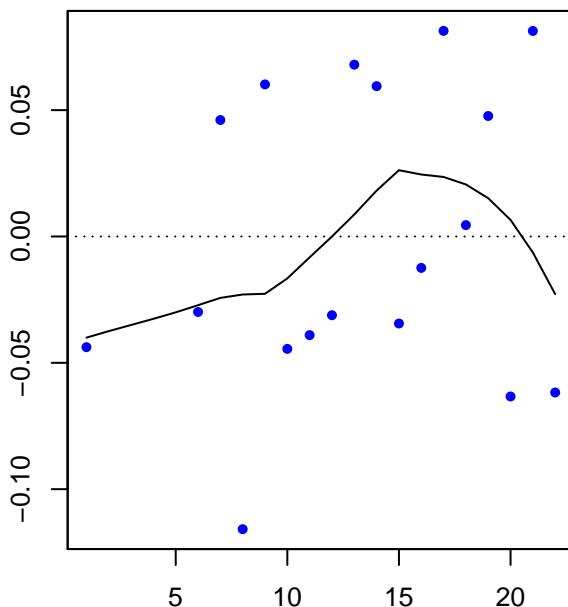


Observation residuals, $y - E[y]$

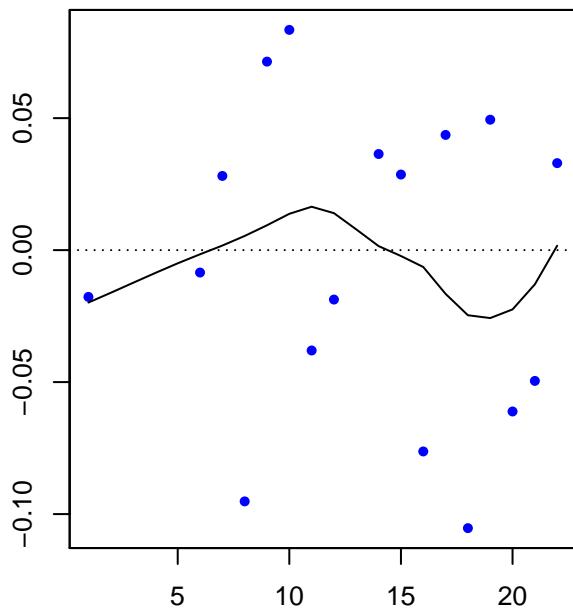
SJF

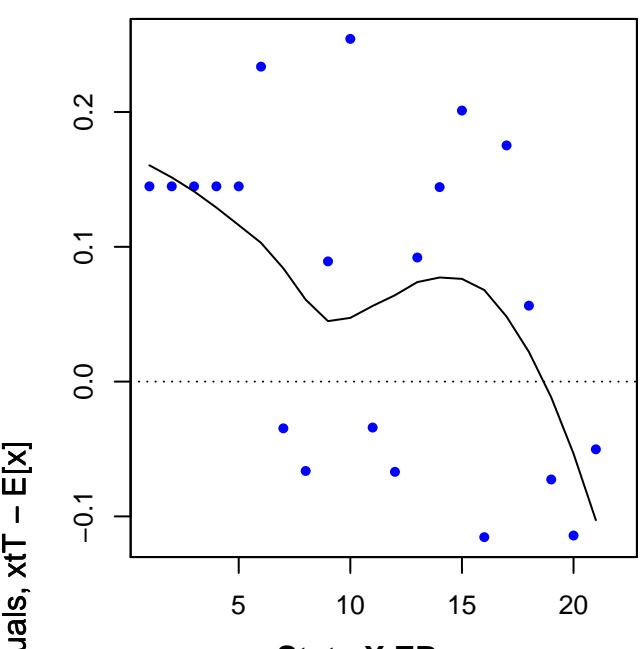
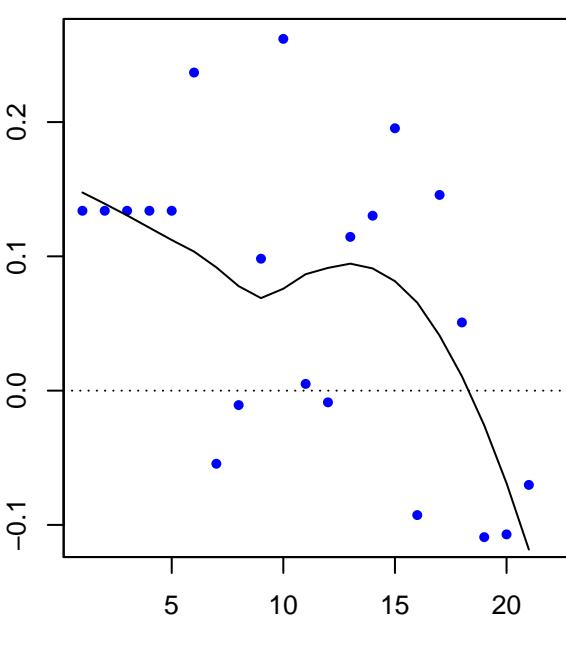
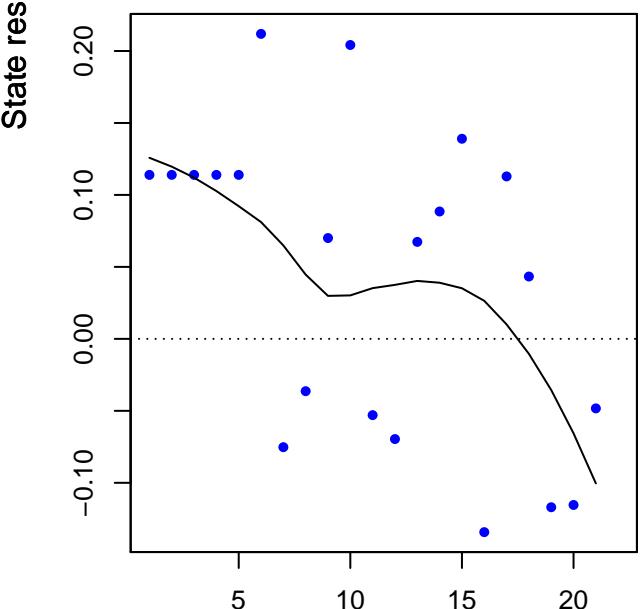


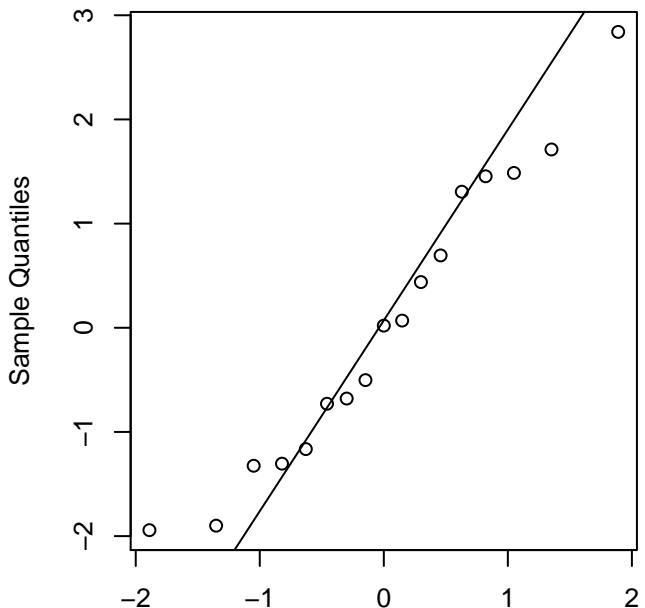
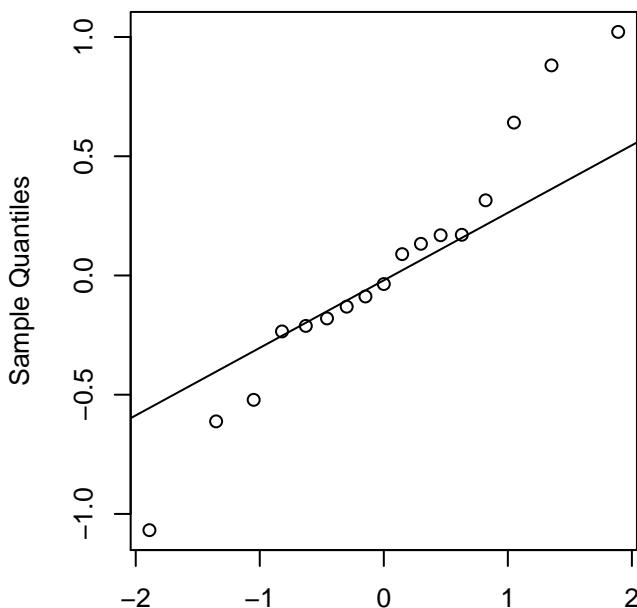
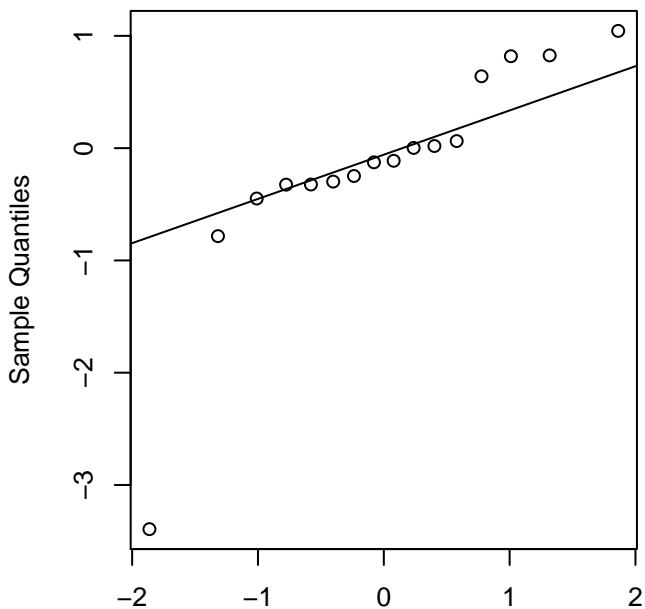
SJI

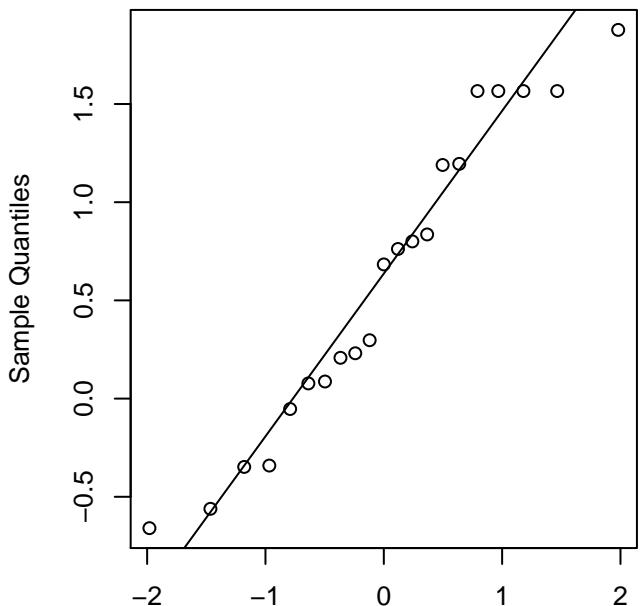
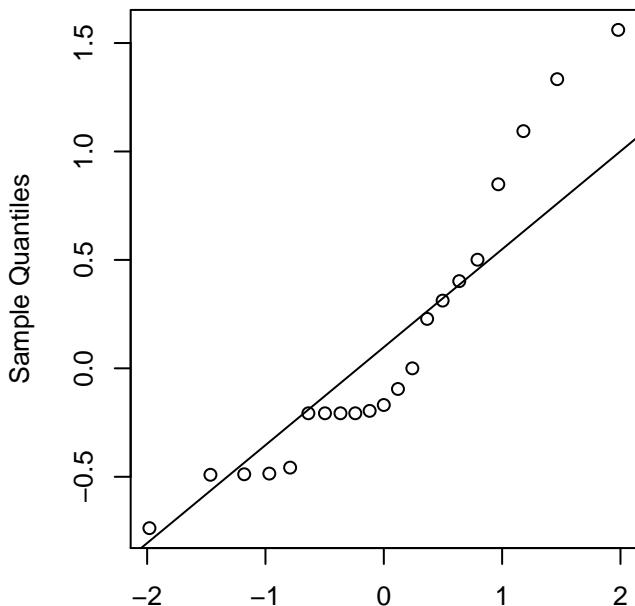
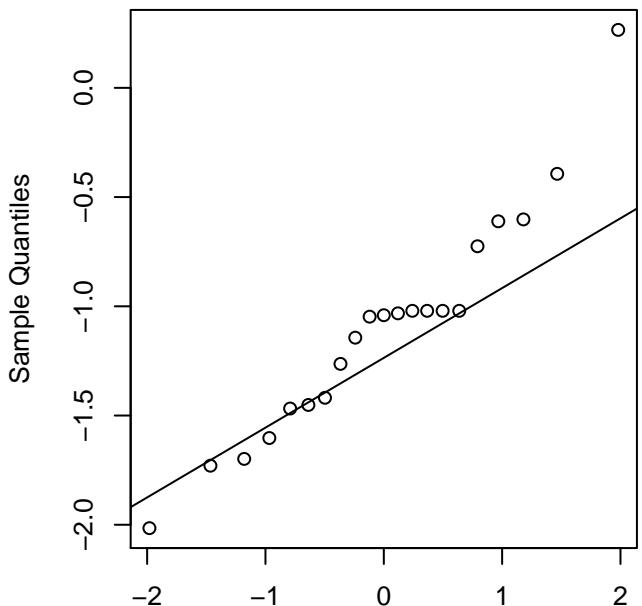


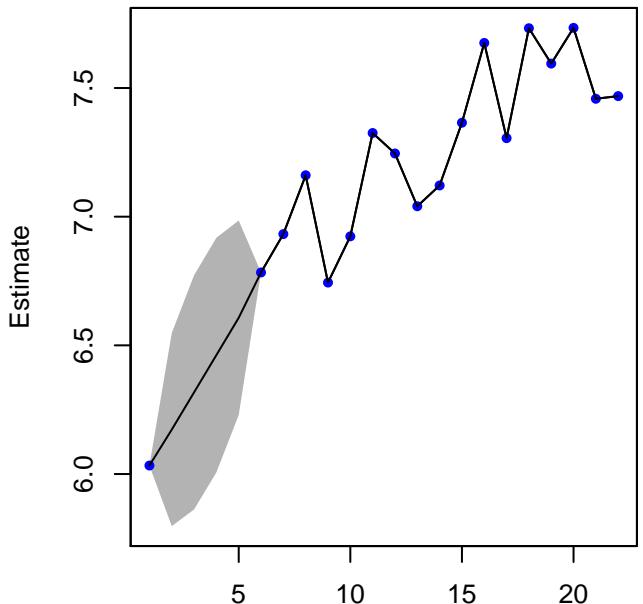
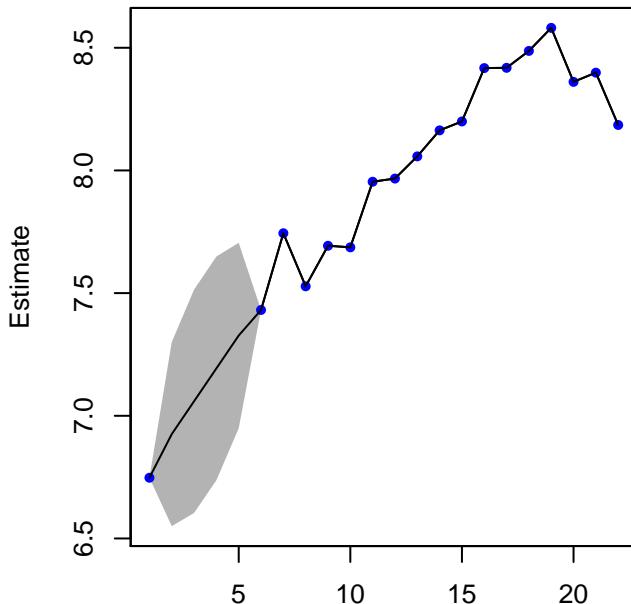
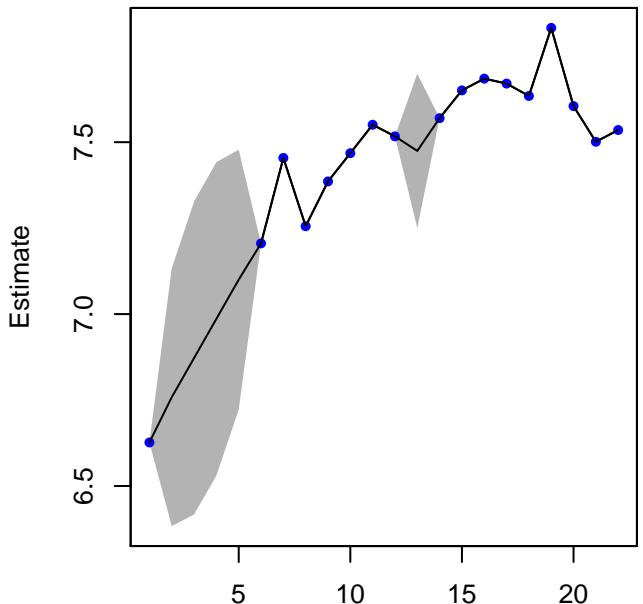
EBays

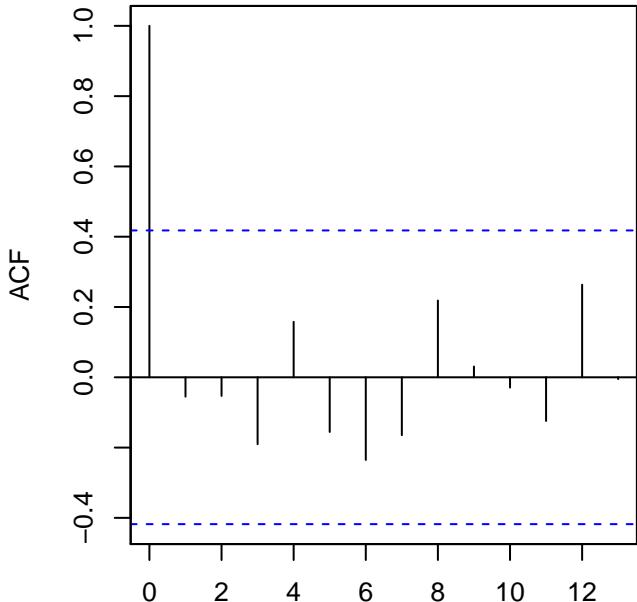
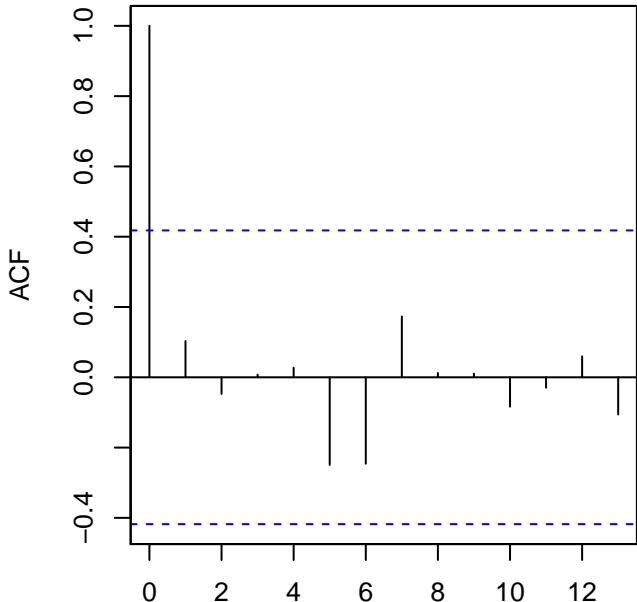
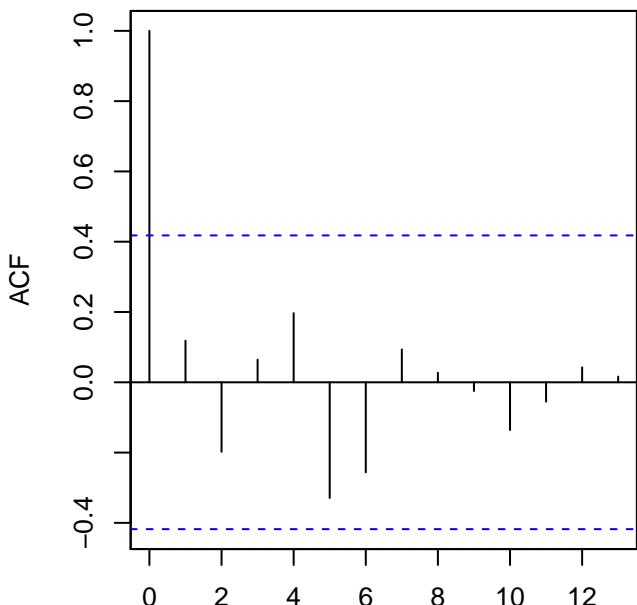


State X.SJF**State X.SJI****State X.EBays**

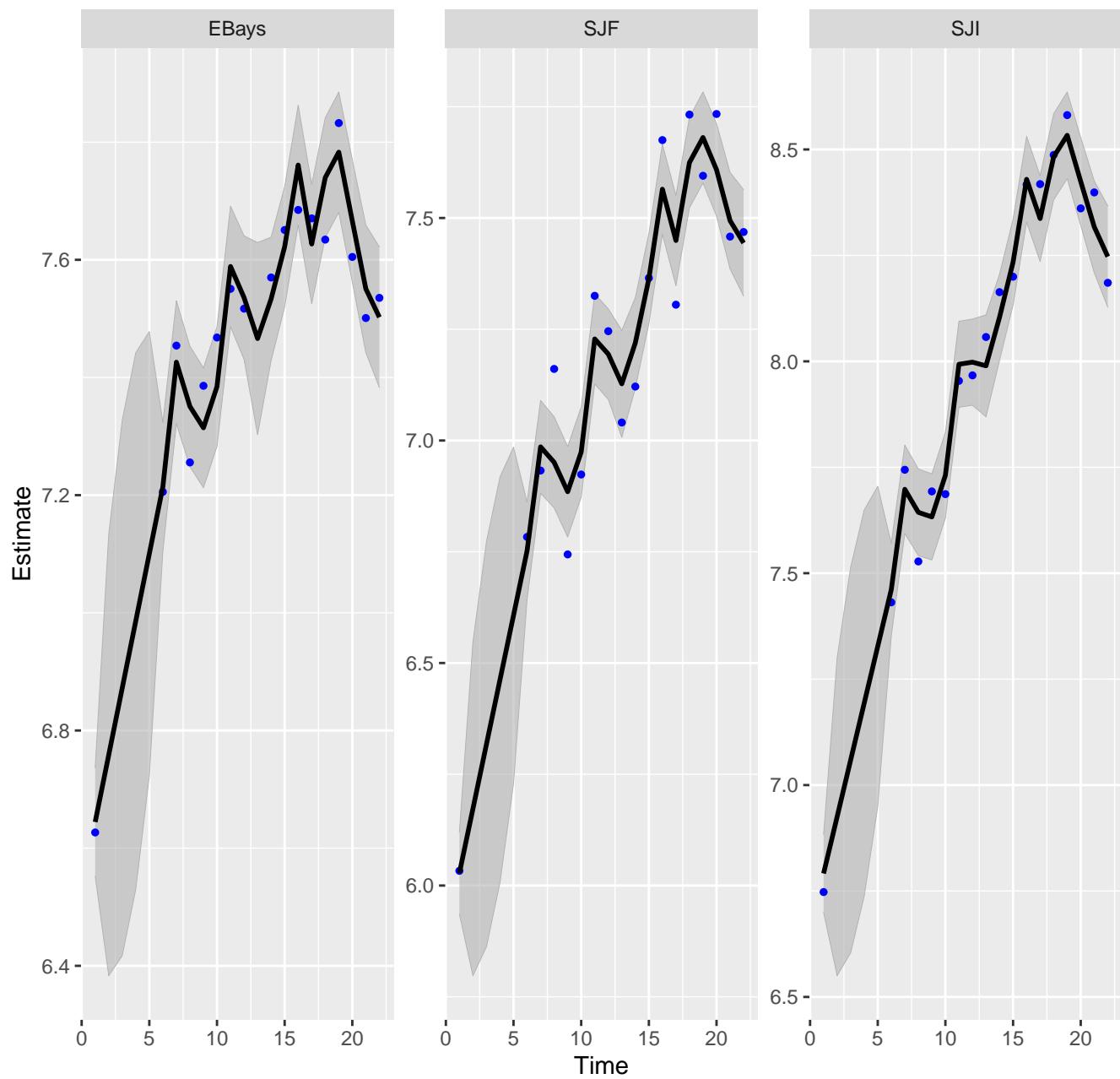
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

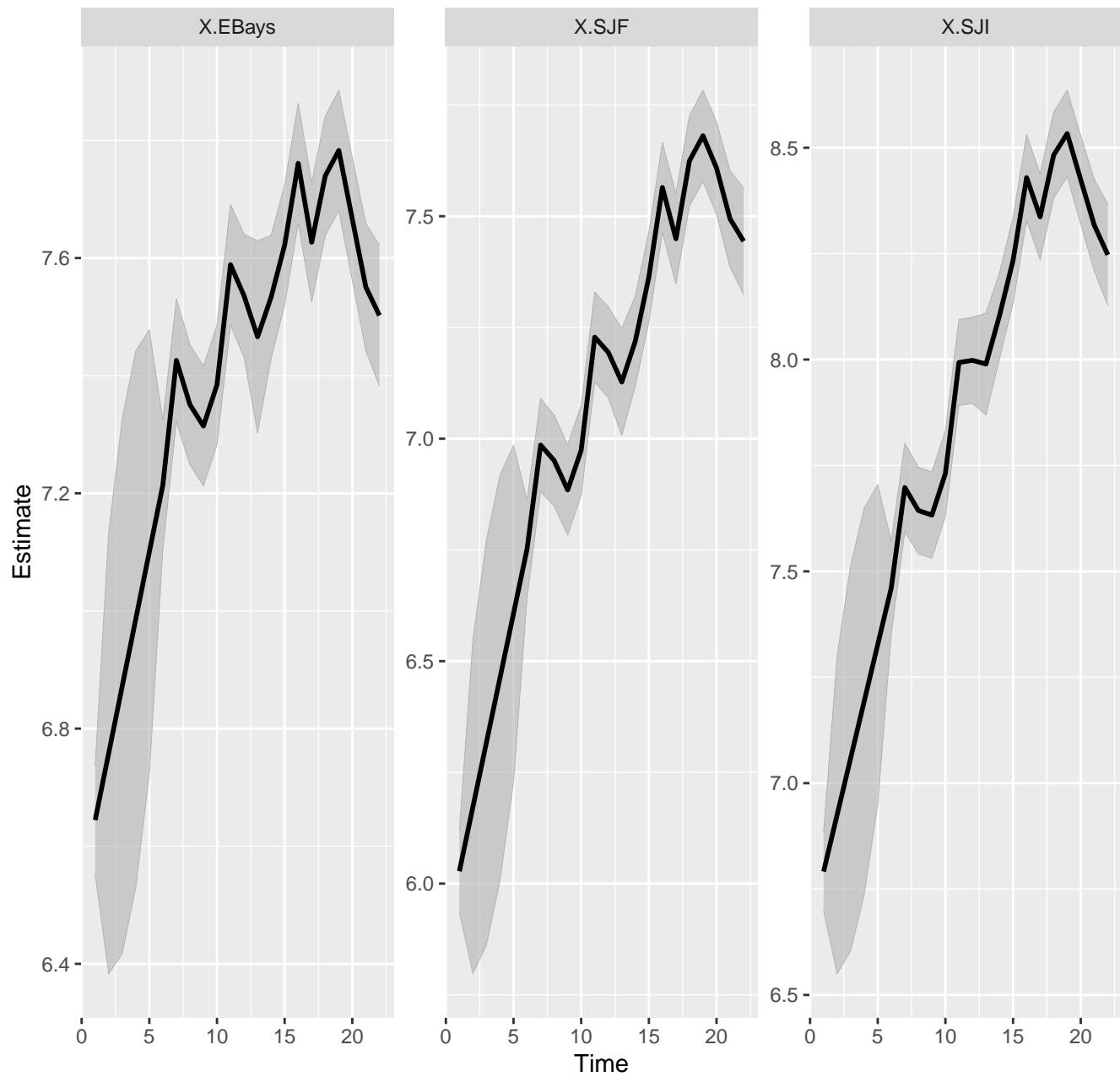
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

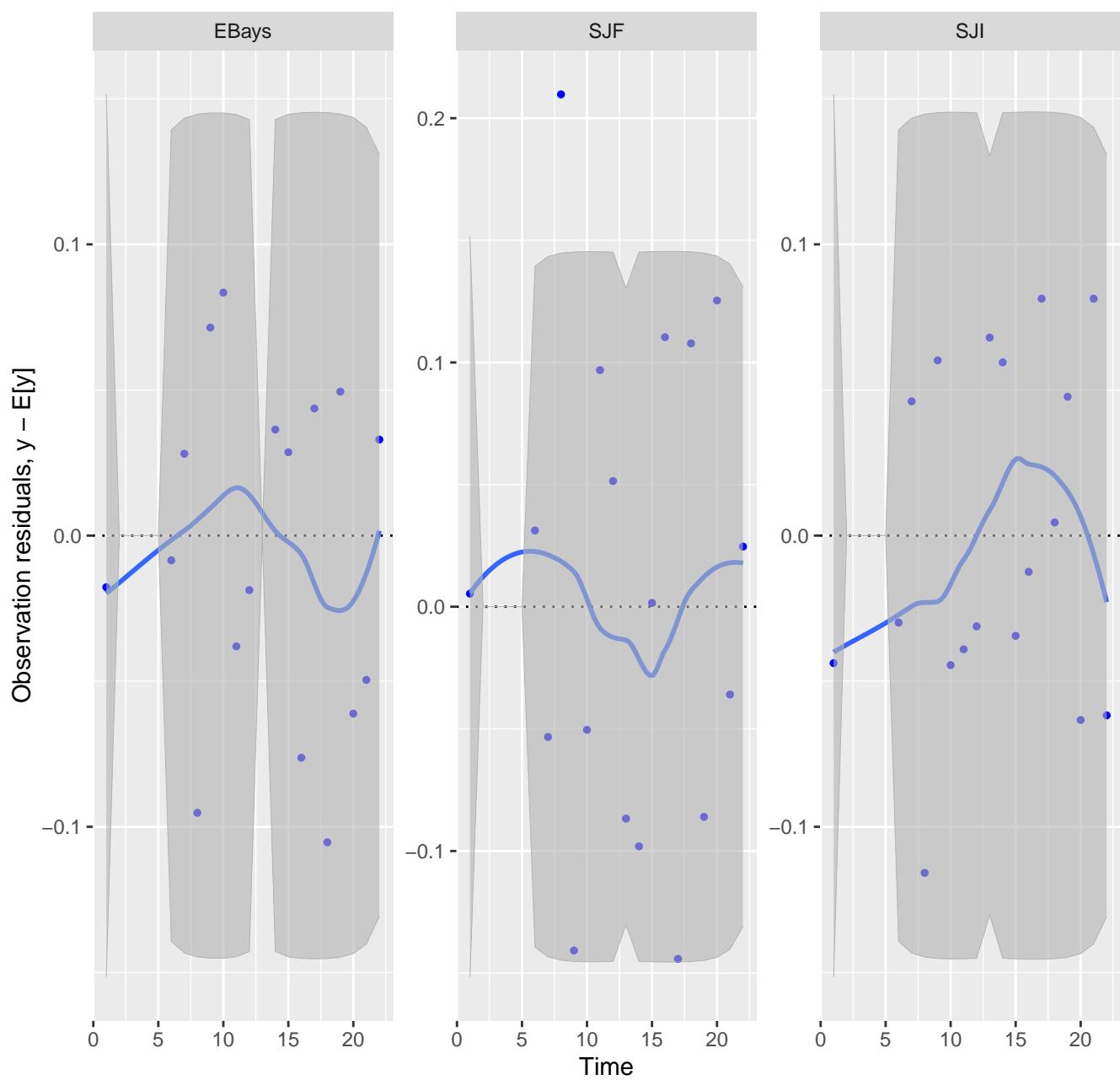
Model fitted Y + CI



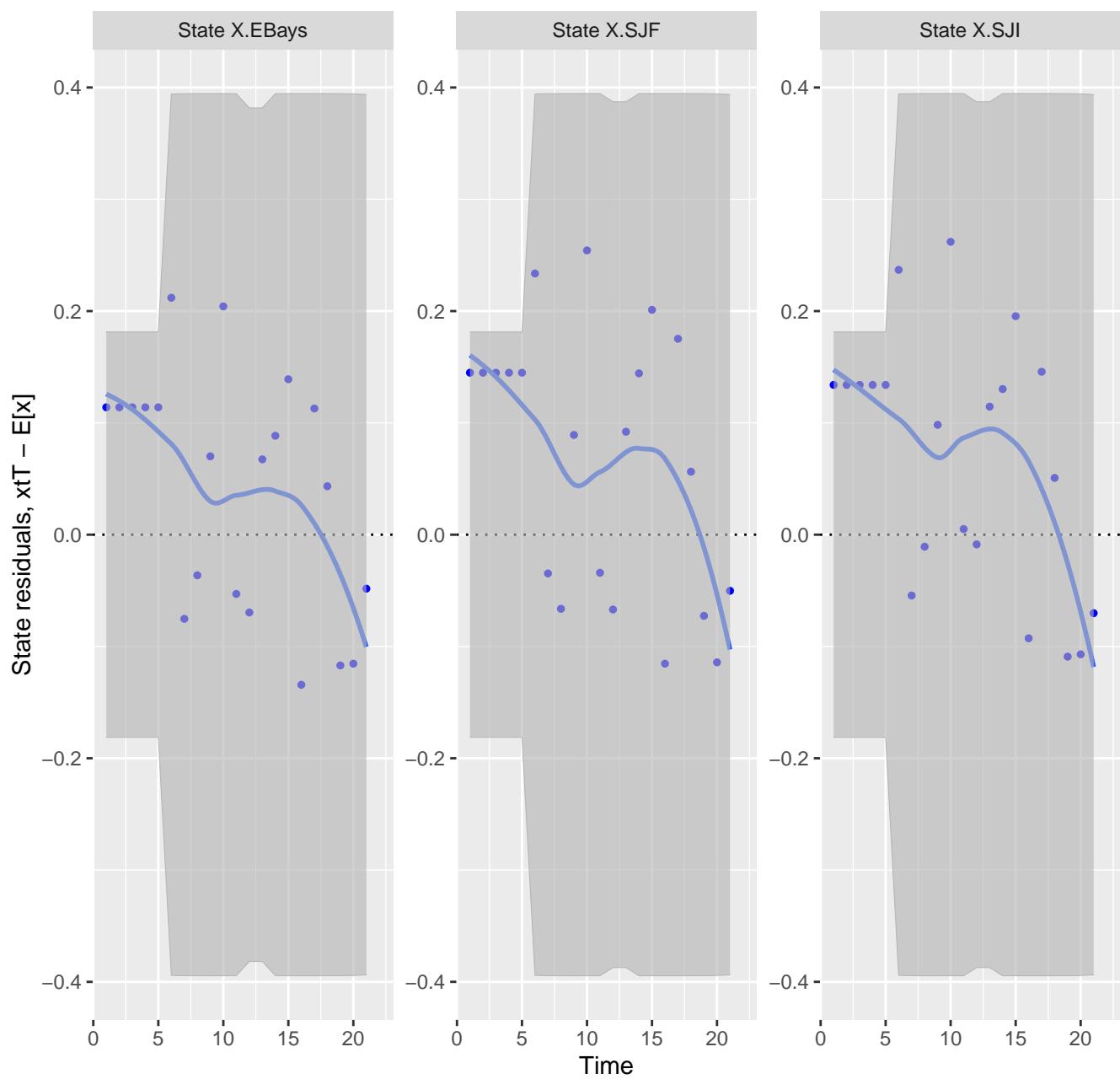
States



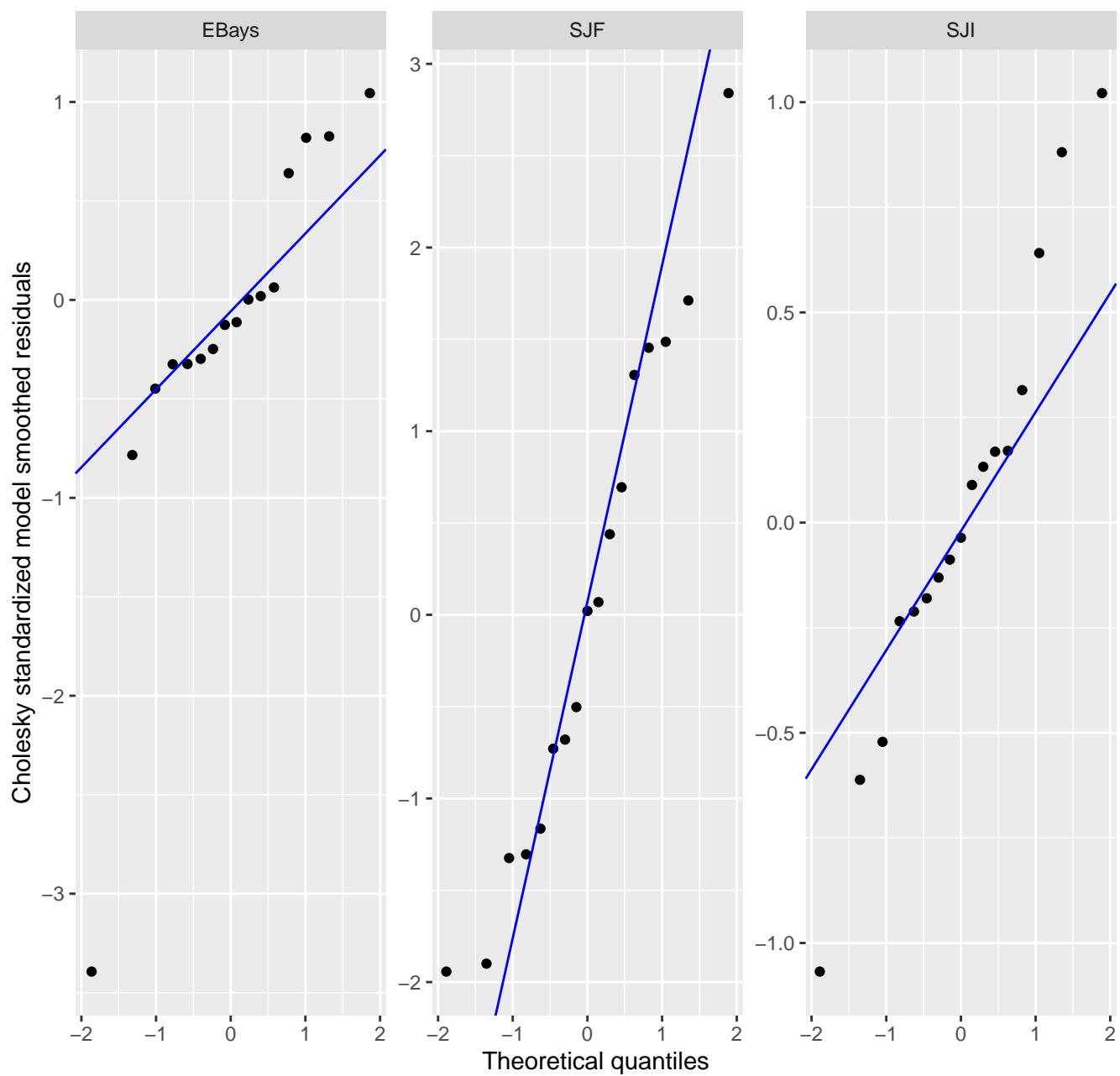
Model residuals



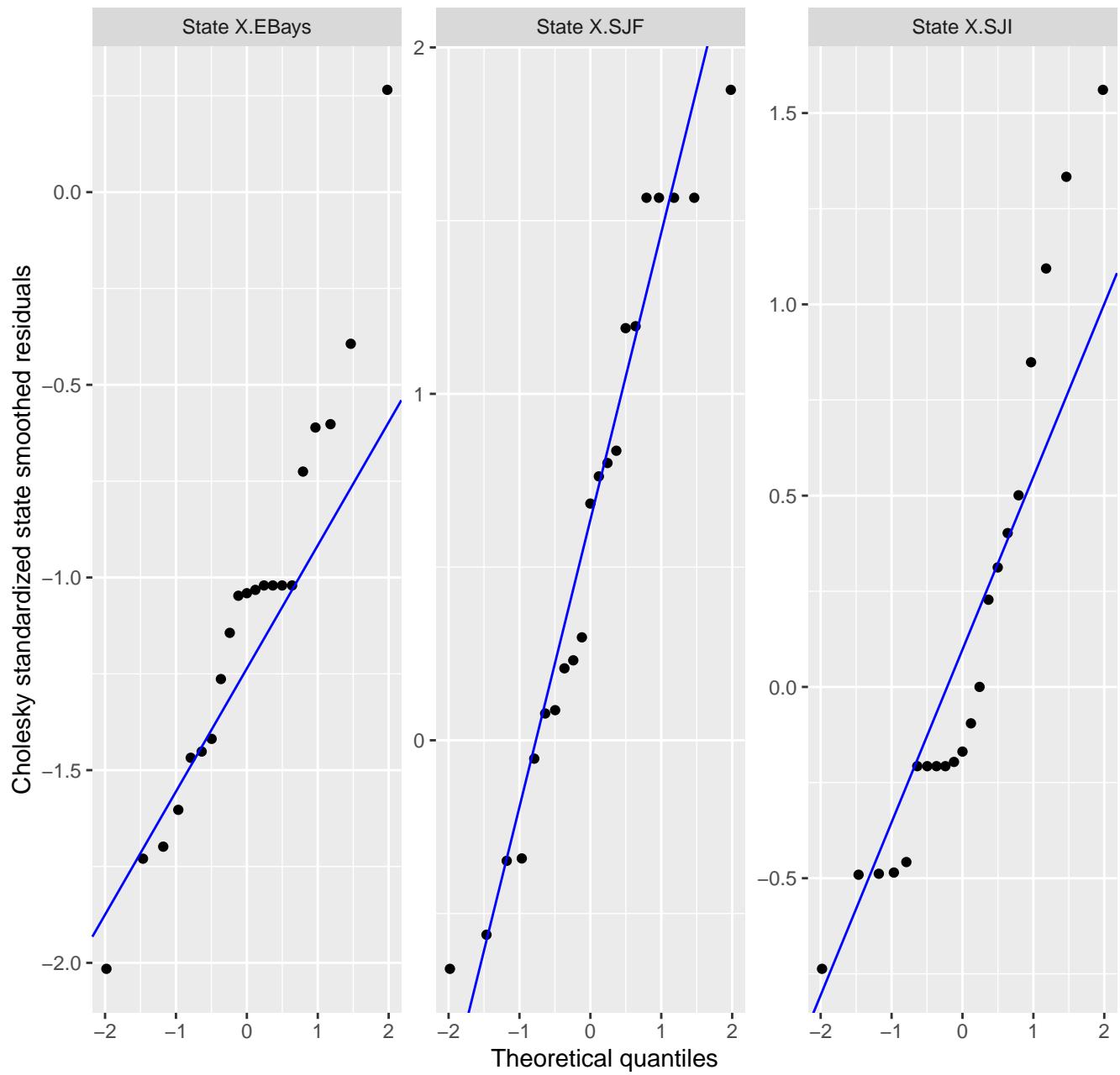
State residuals



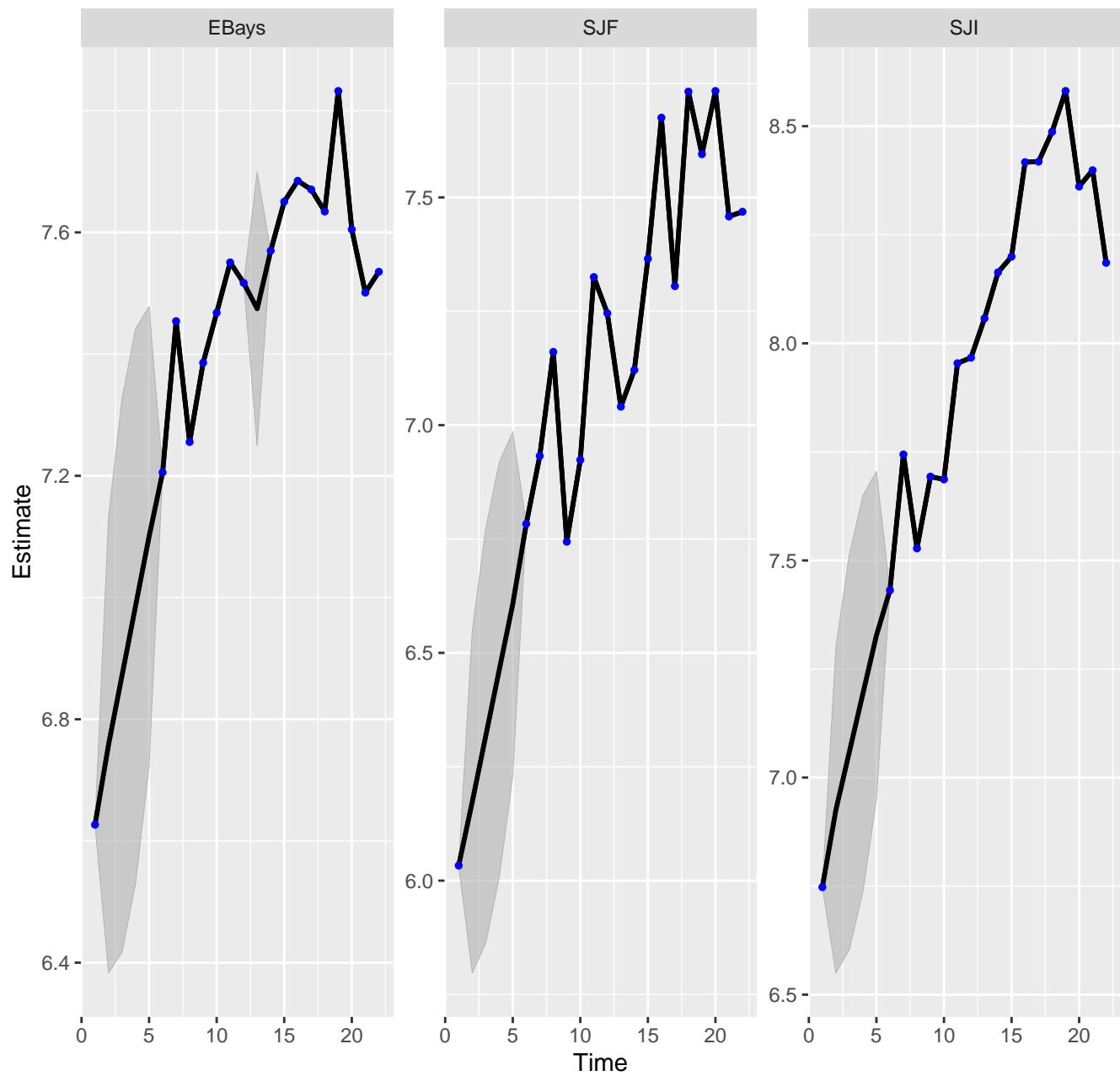
Model residuals normality test



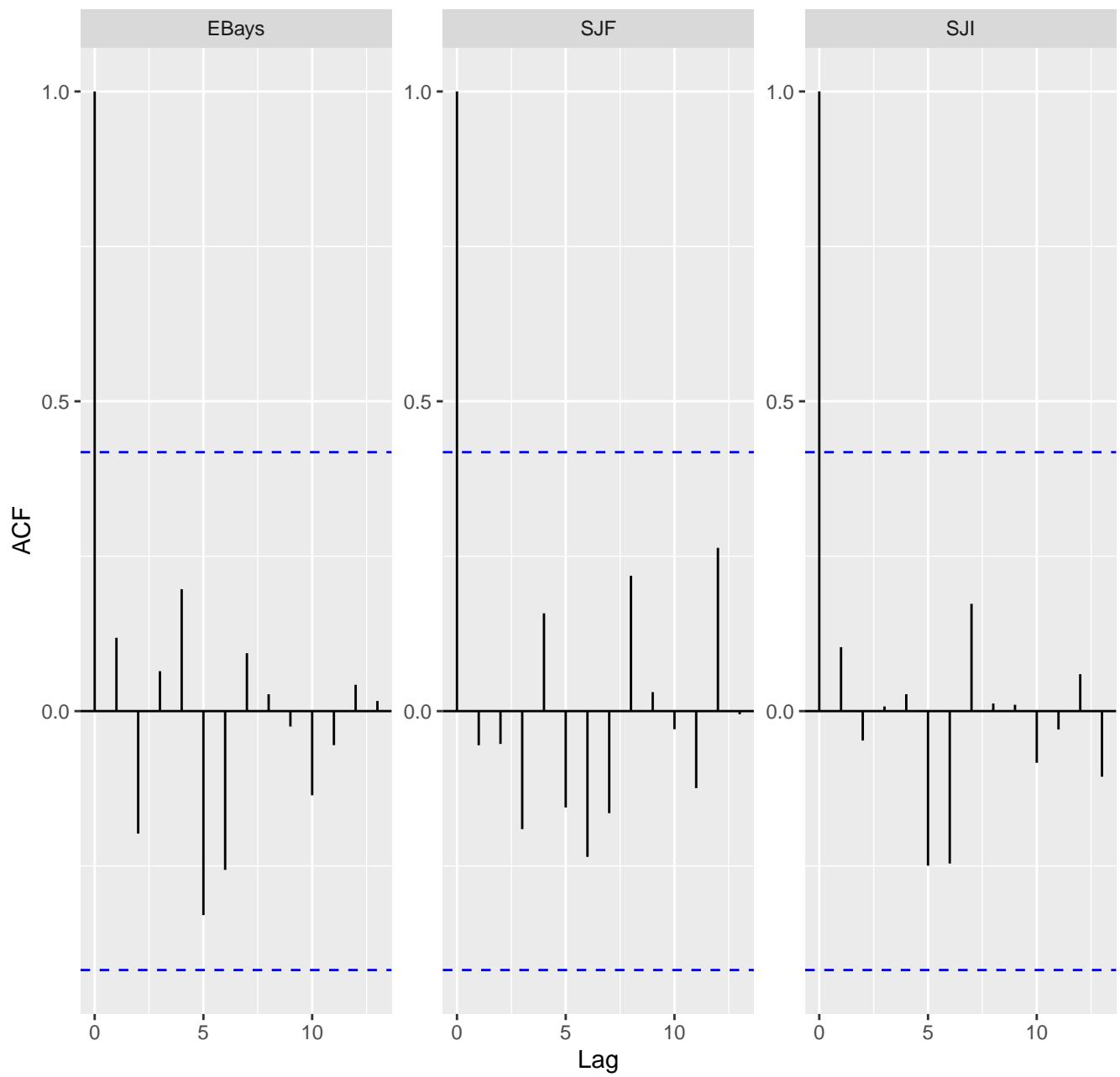
State residuals normality test

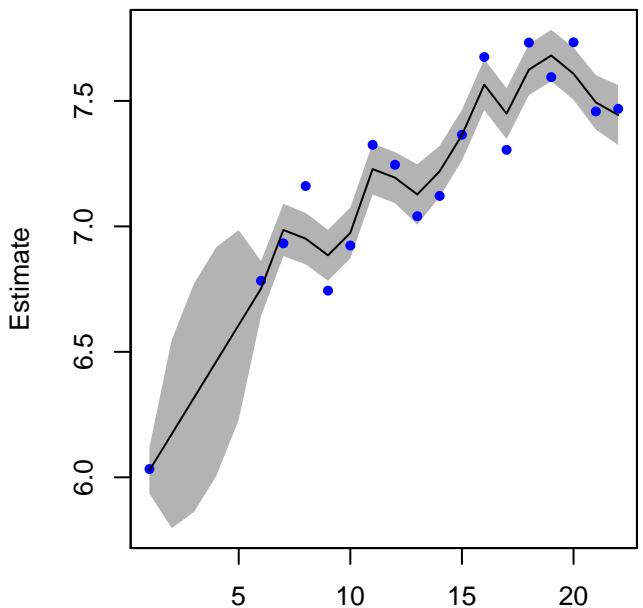
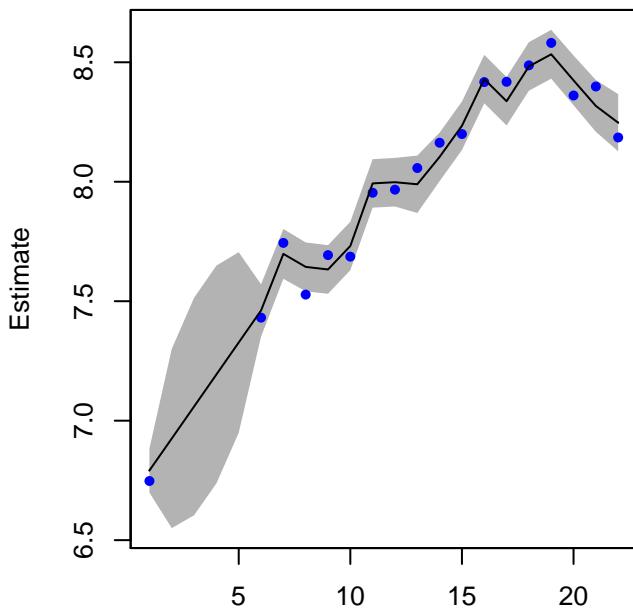
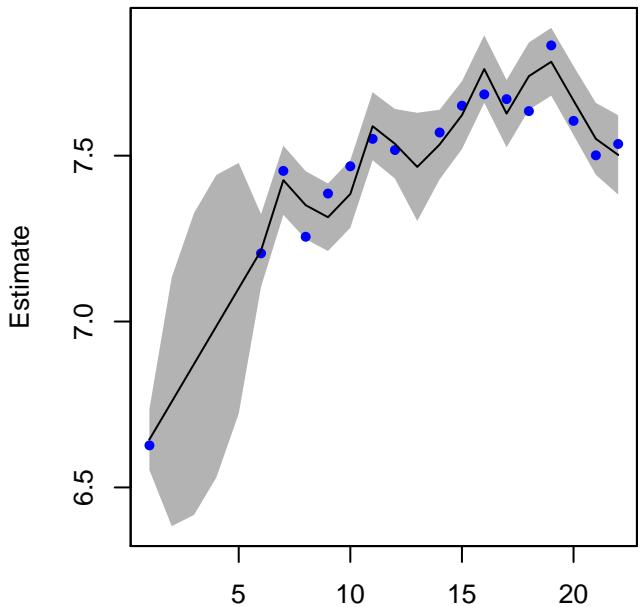


Expected value of Y conditioned on data

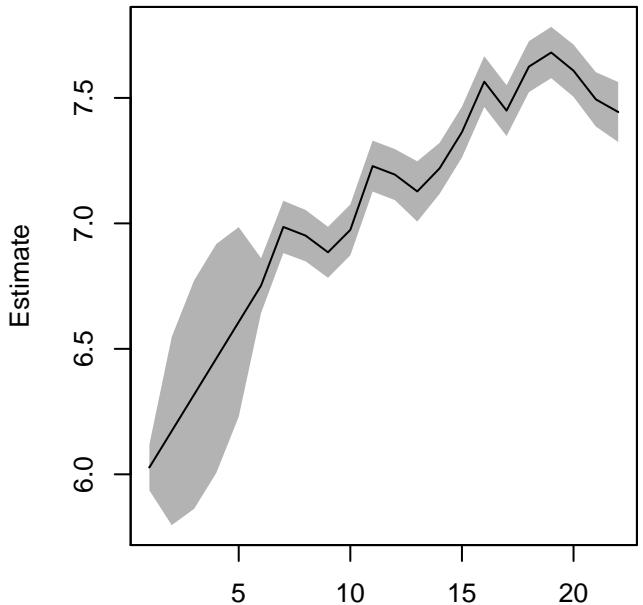


Model innovations residuals ACF

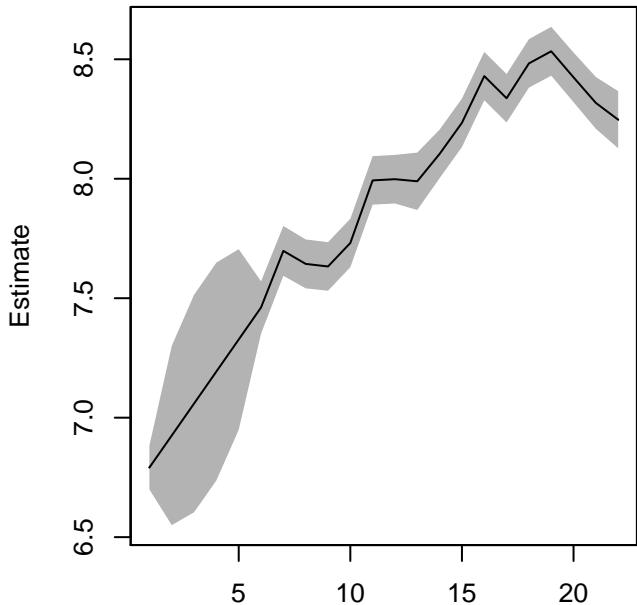


SJF + CI**SJI + CI****EBays + CI**

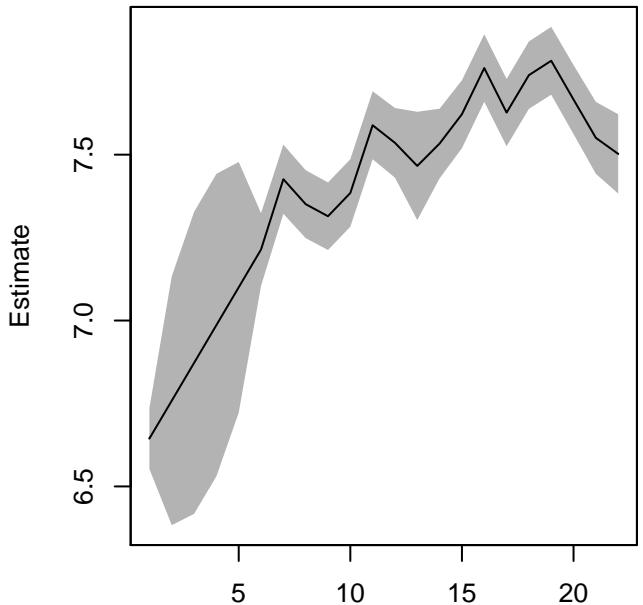
State X.SJF



State X.SJI

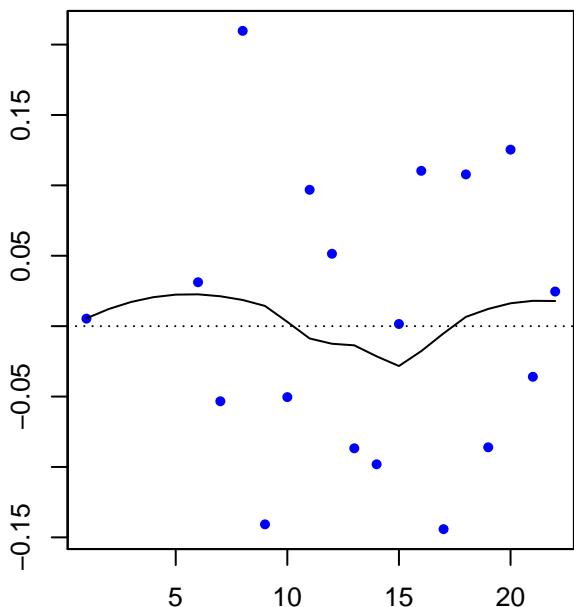


State X.EBays

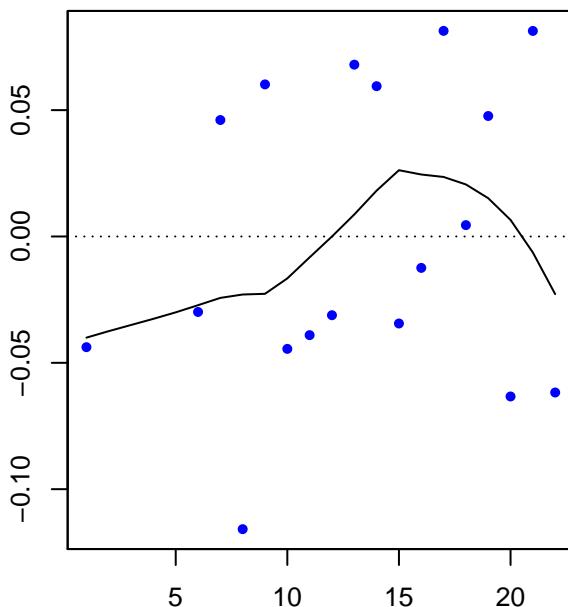


Observation residuals, $y - E[y]$

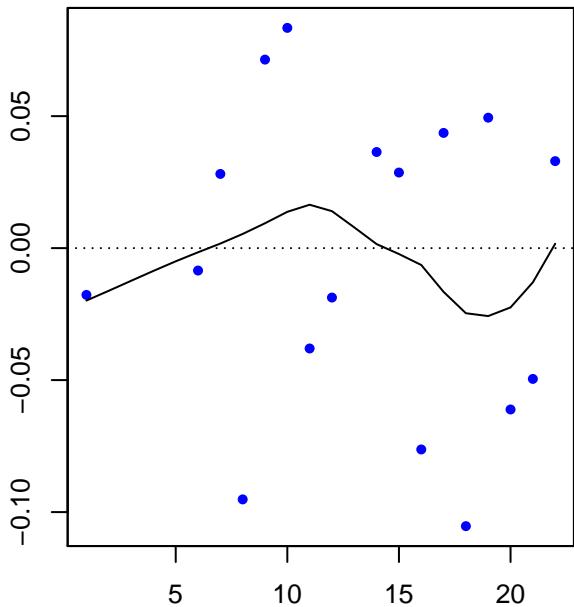
SJF



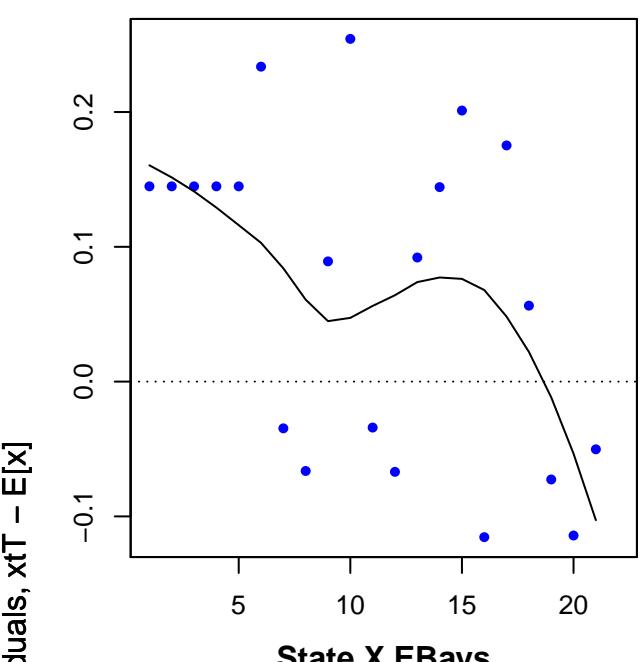
SJI



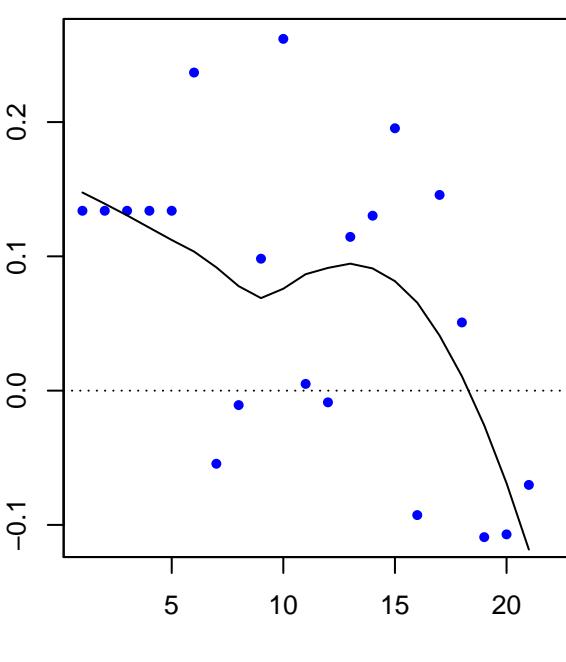
EBays



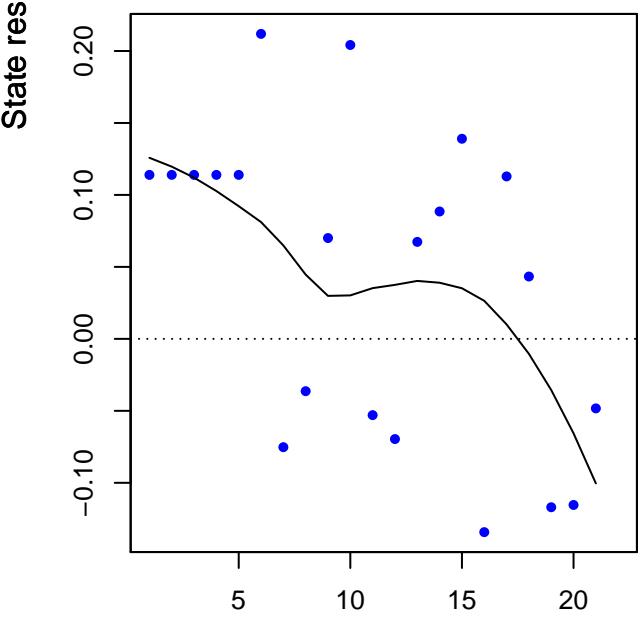
State X.SJF

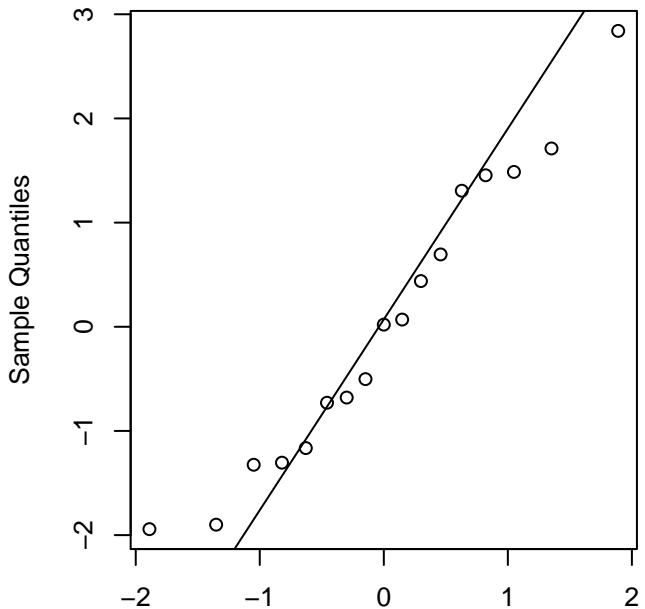
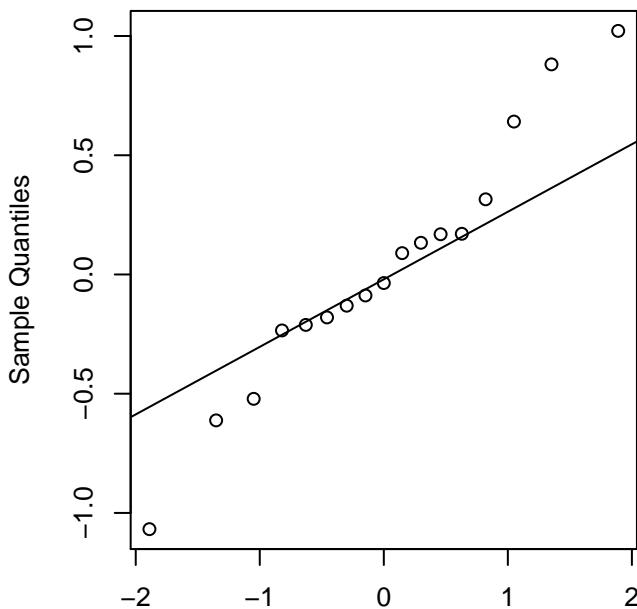
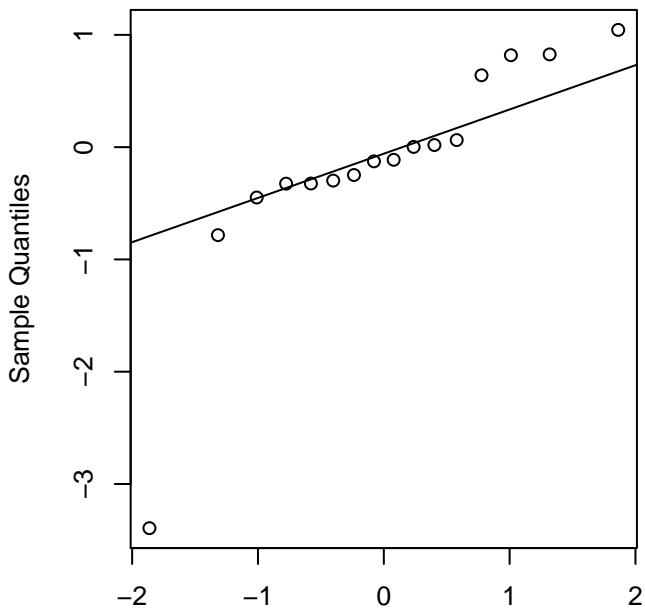


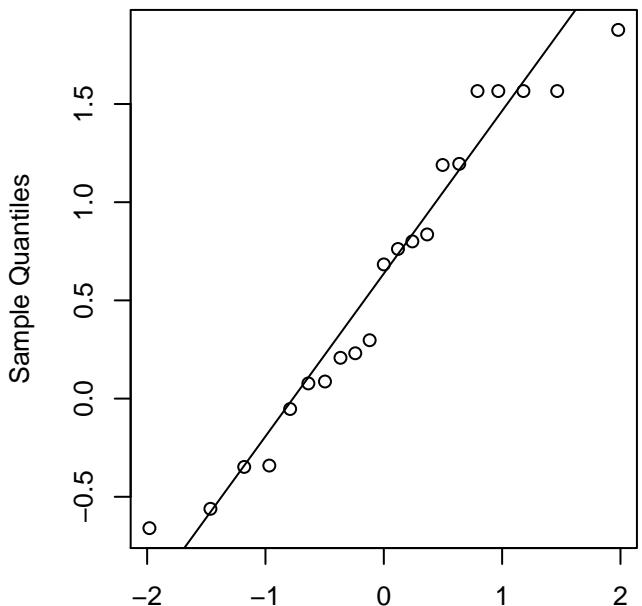
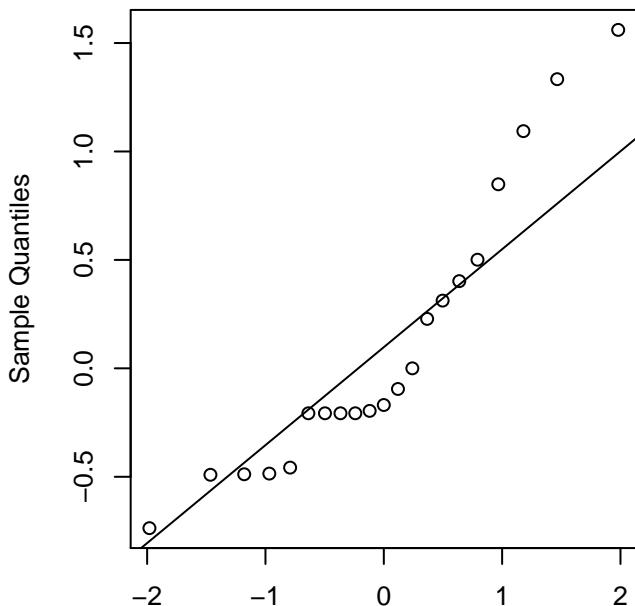
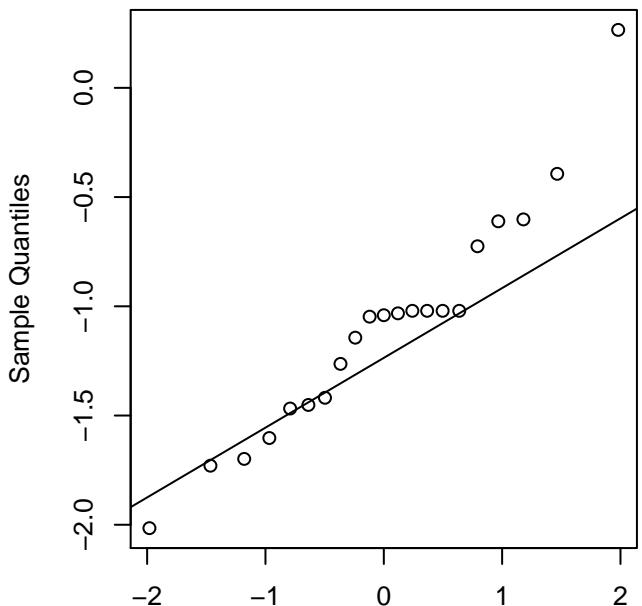
State X.SJI

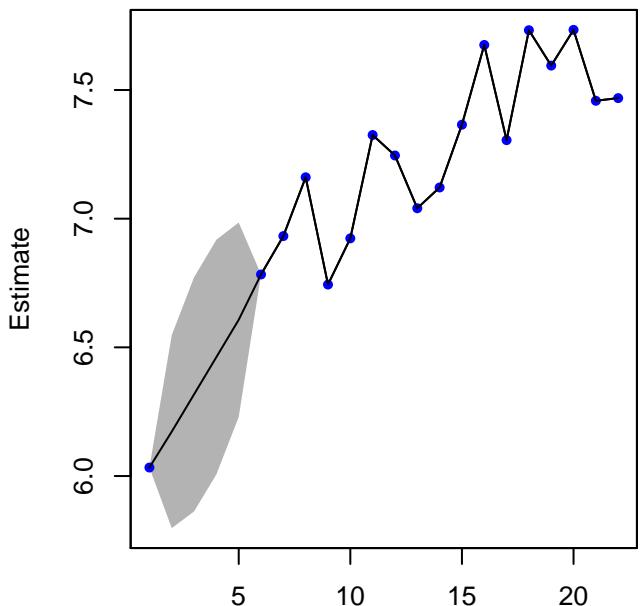
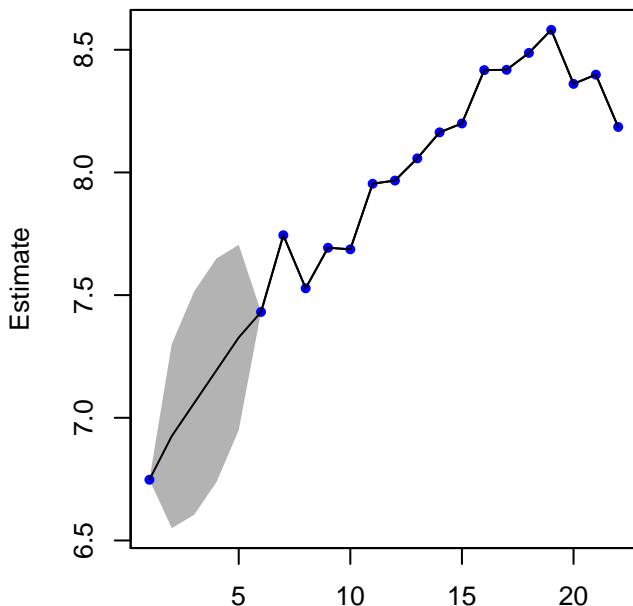
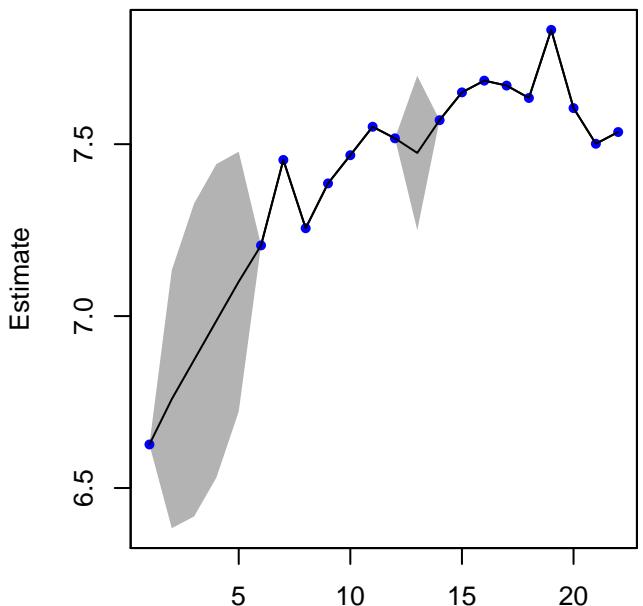


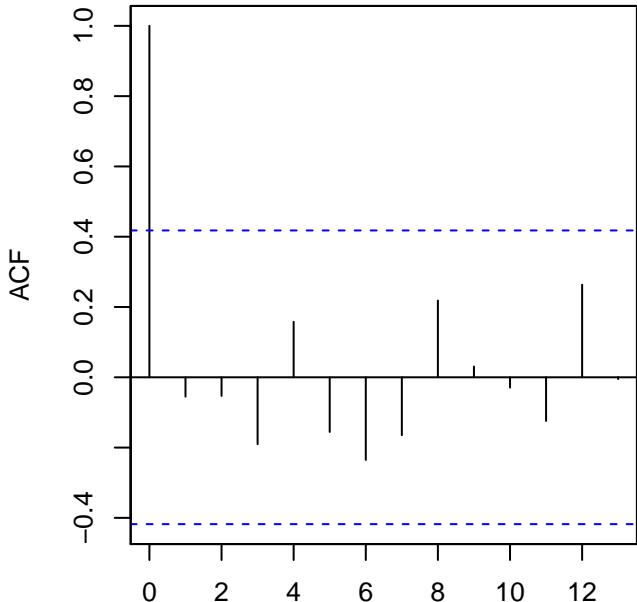
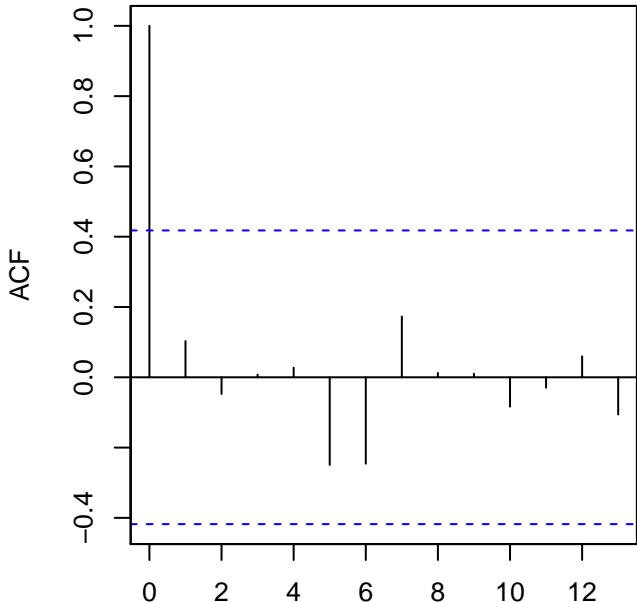
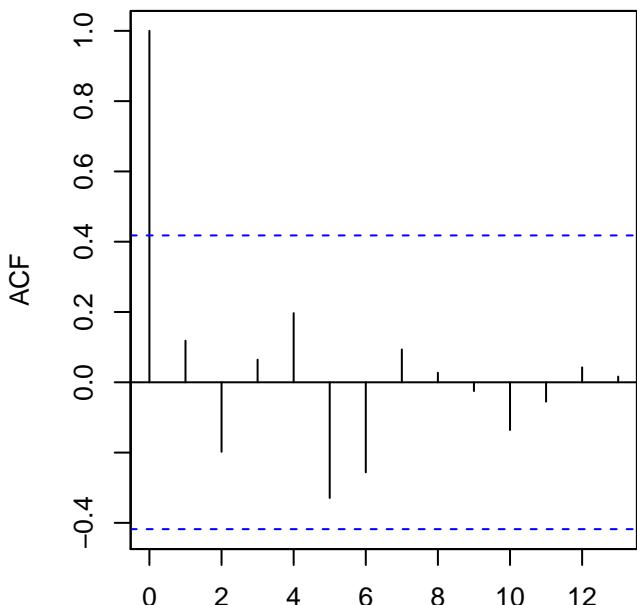
State X.EBays



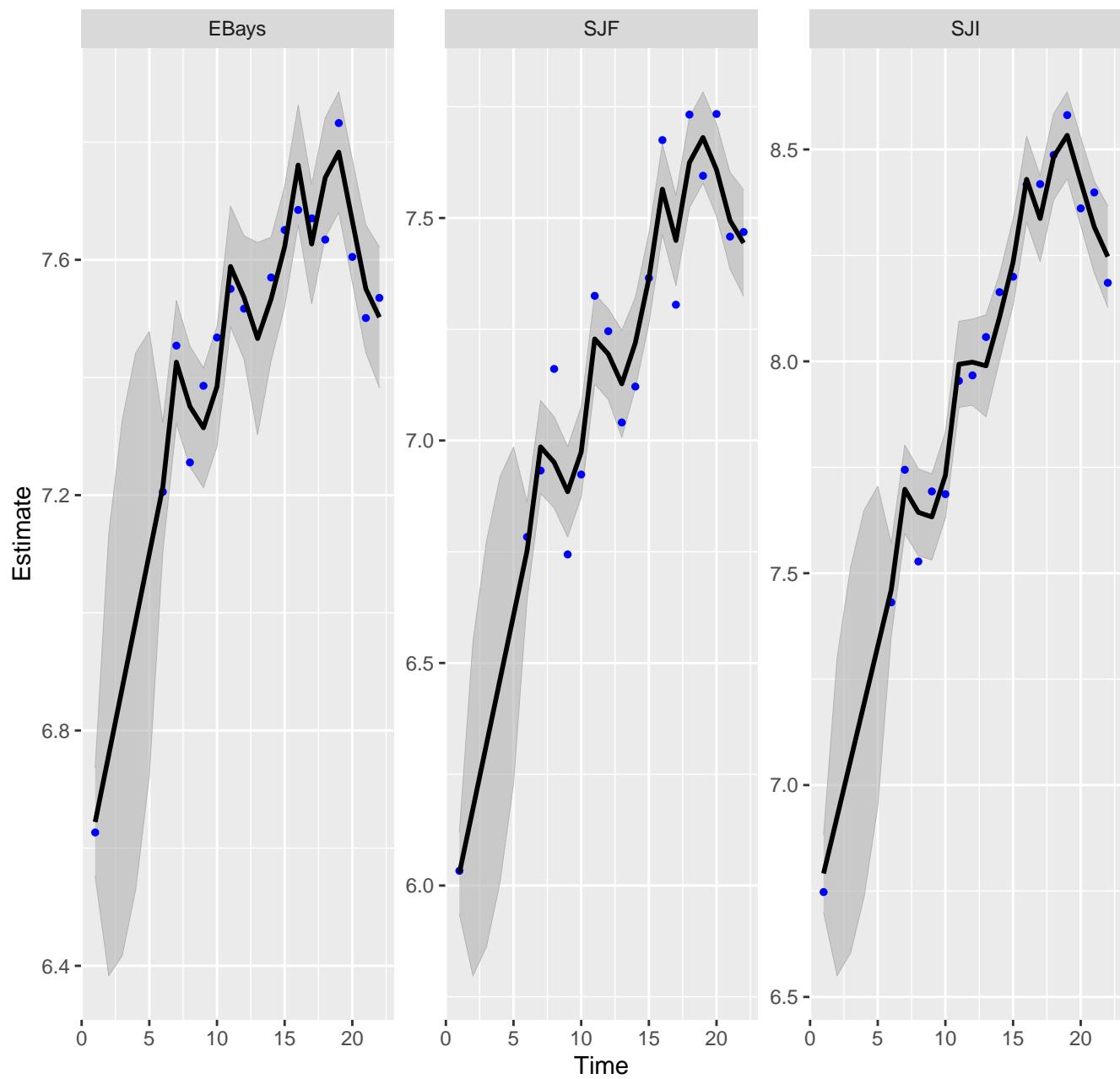
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

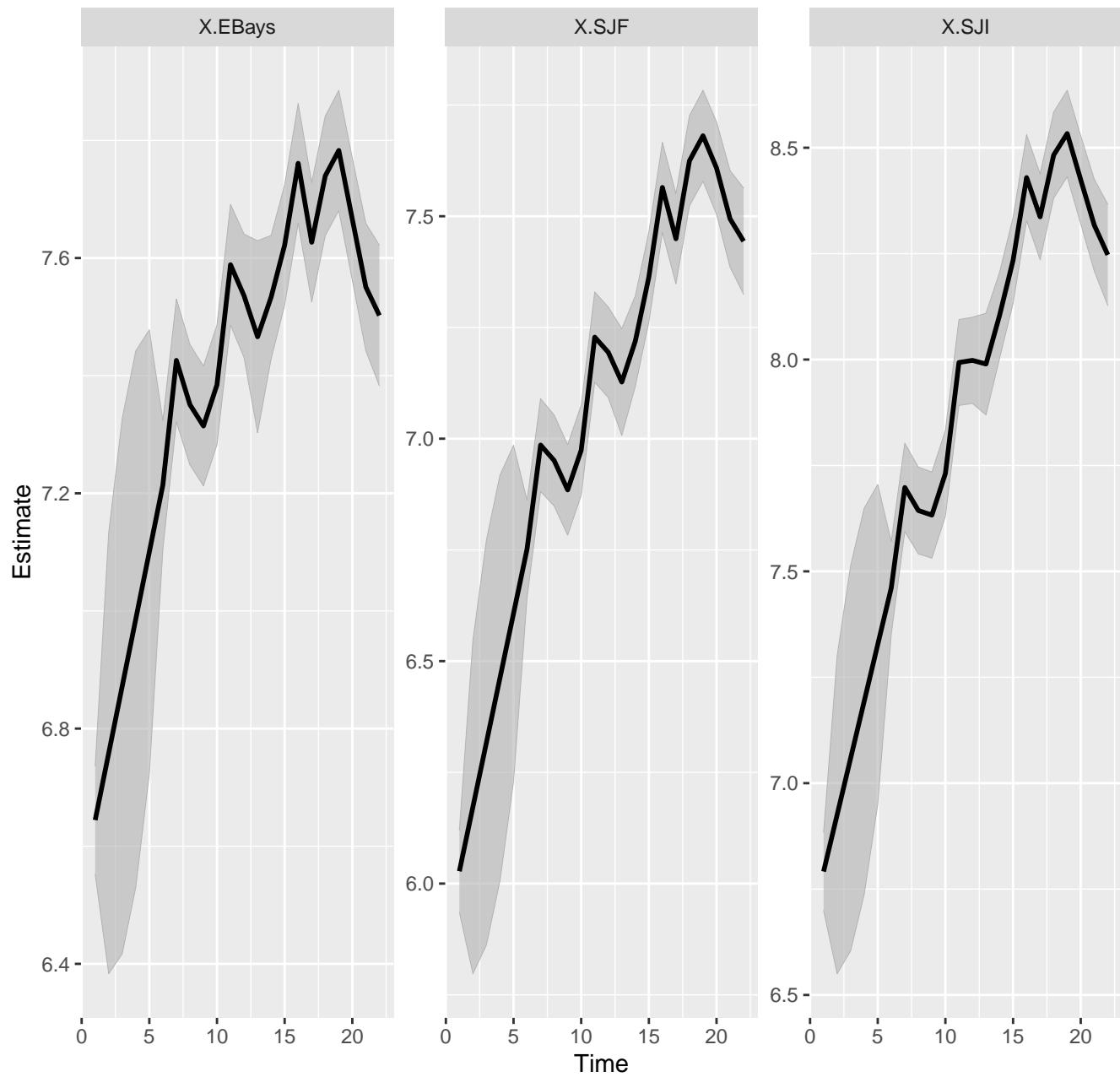
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

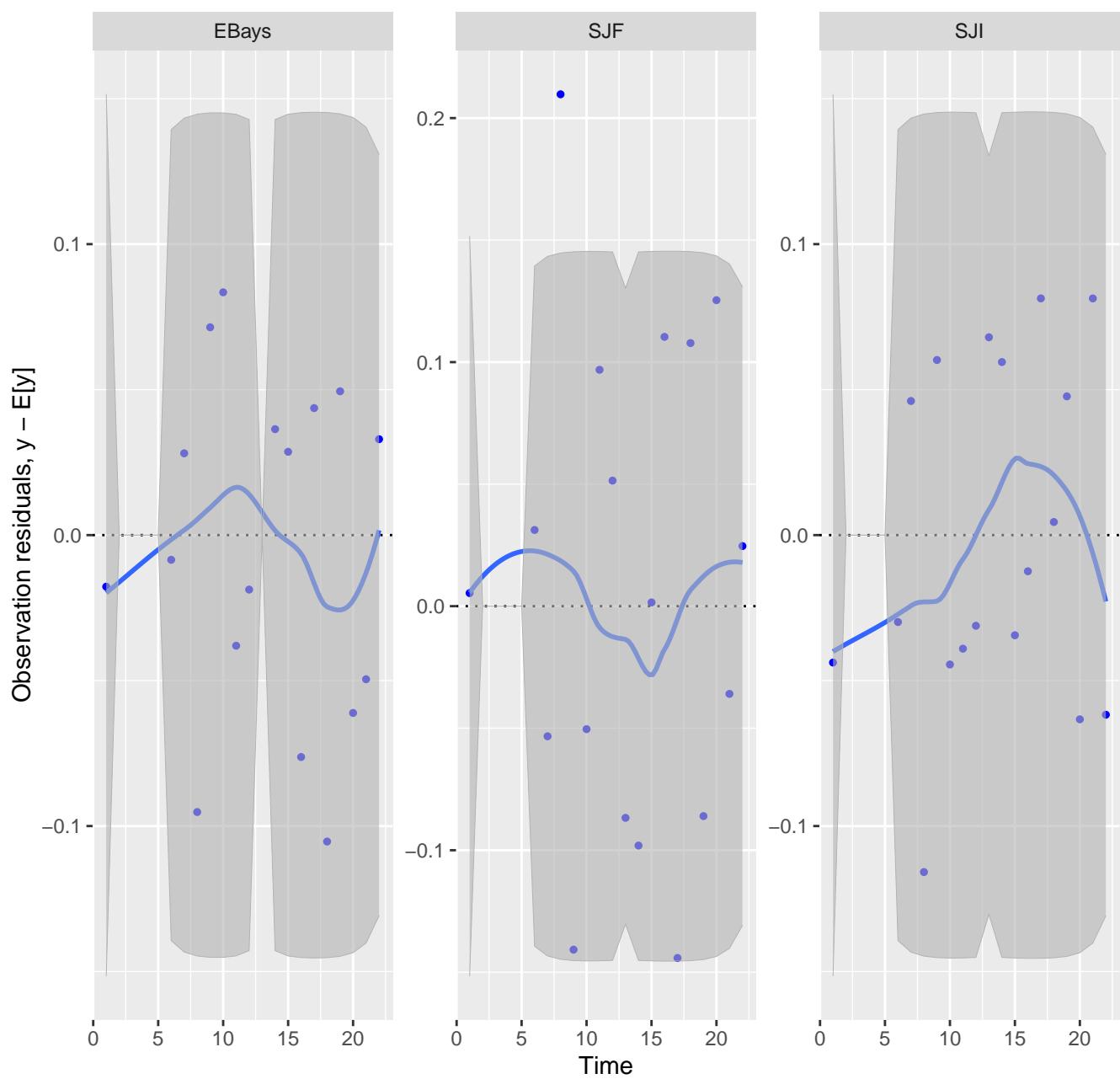
Model fitted Y + CI



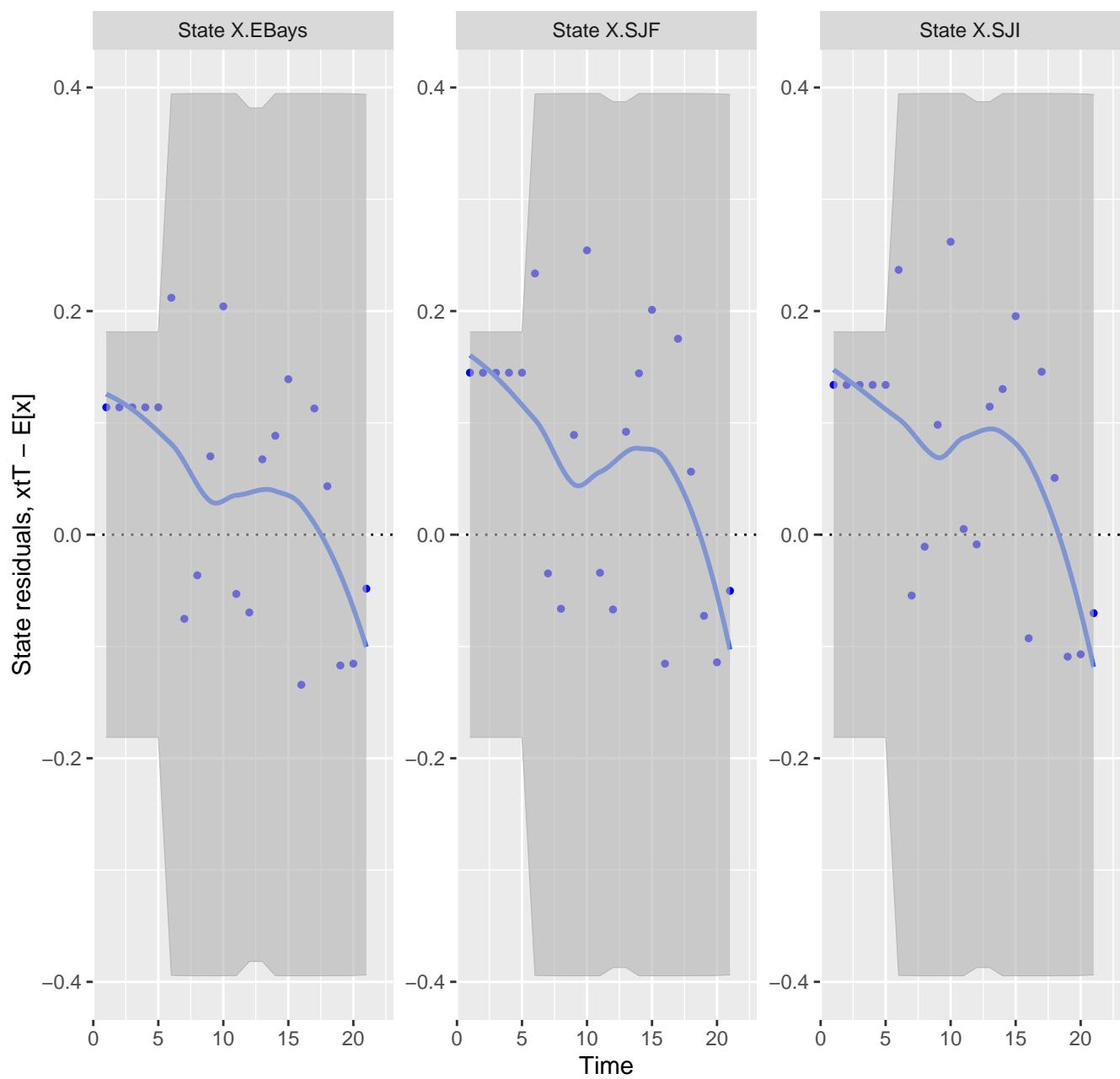
States



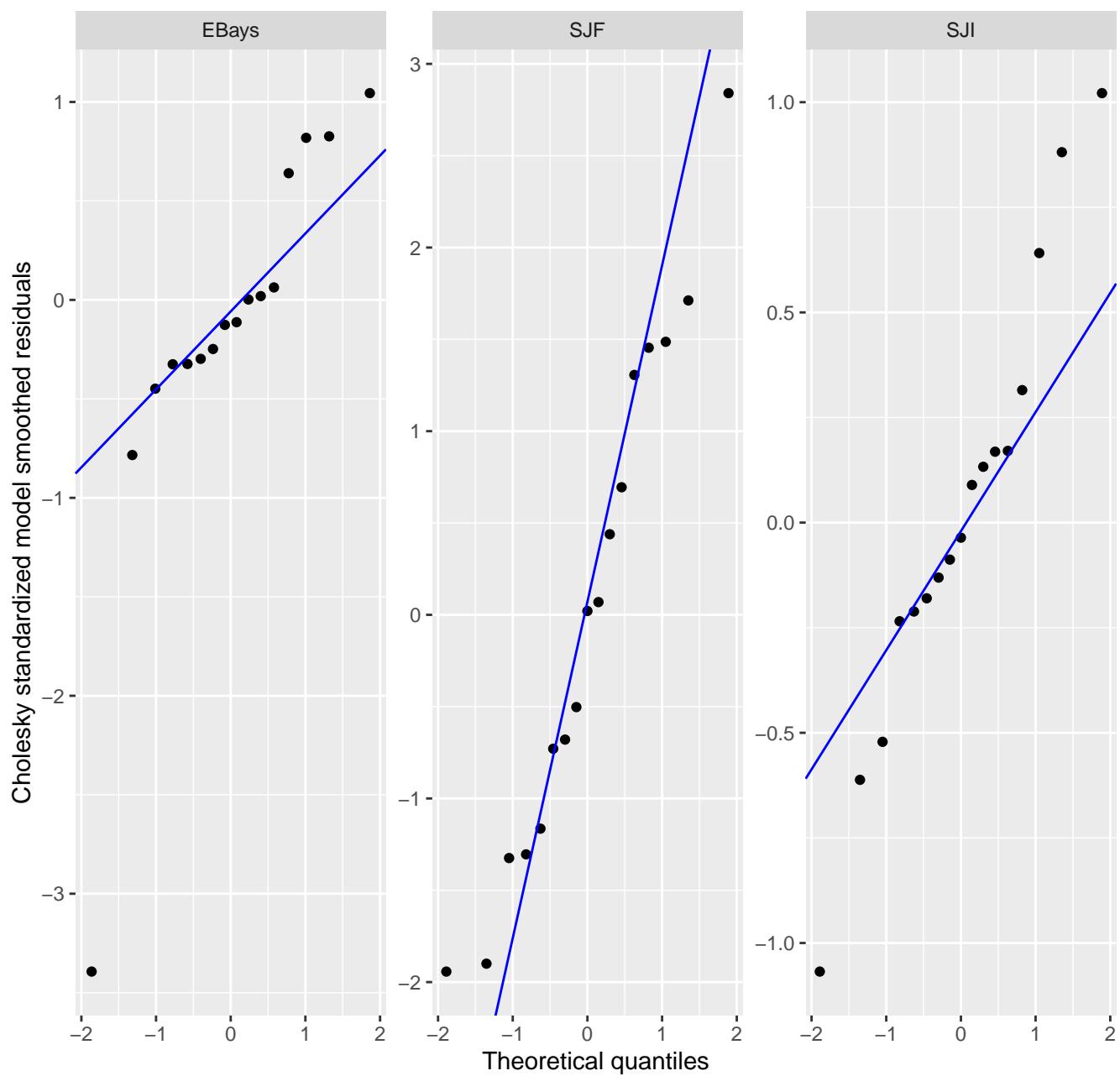
Model residuals



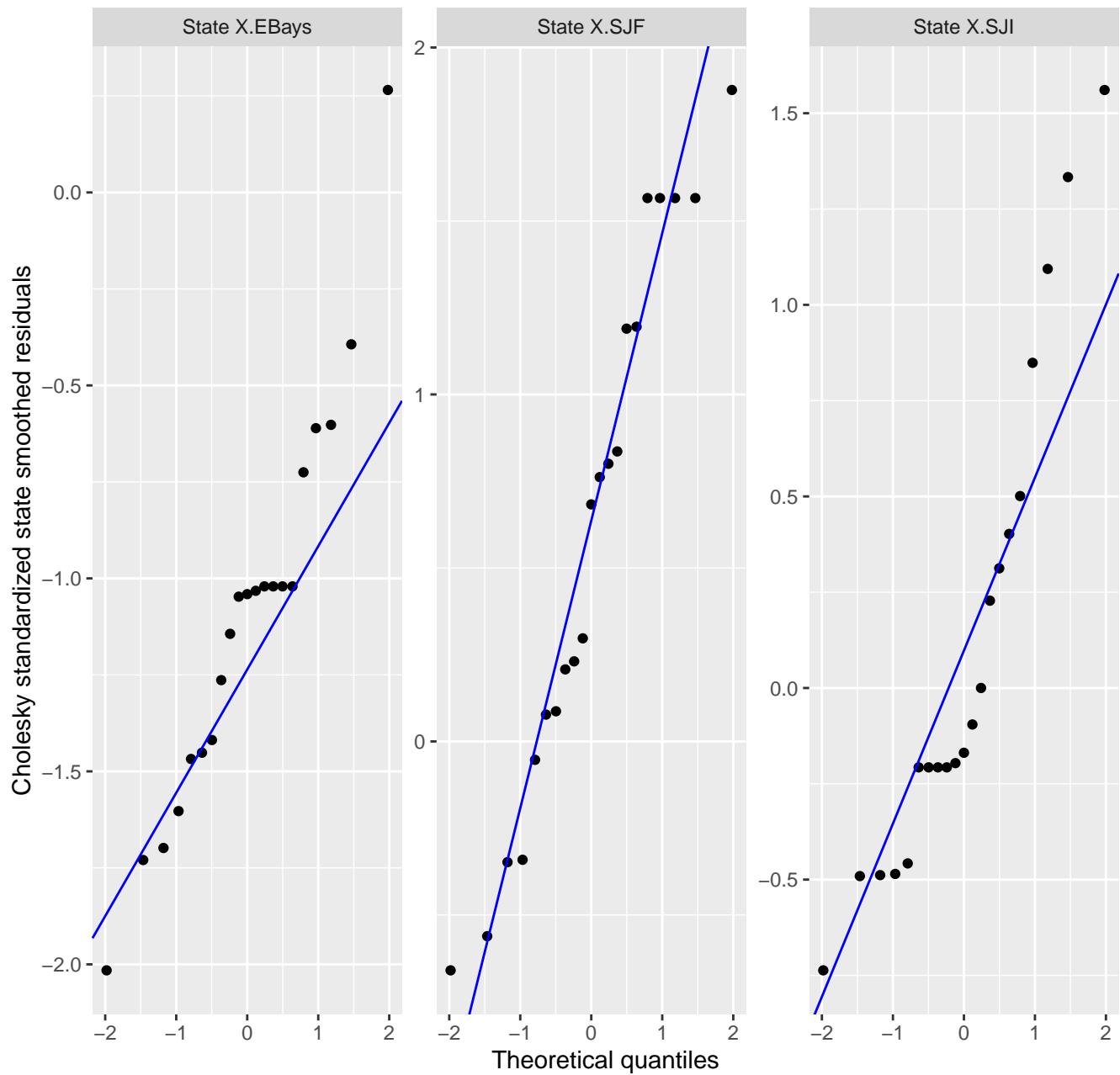
State residuals



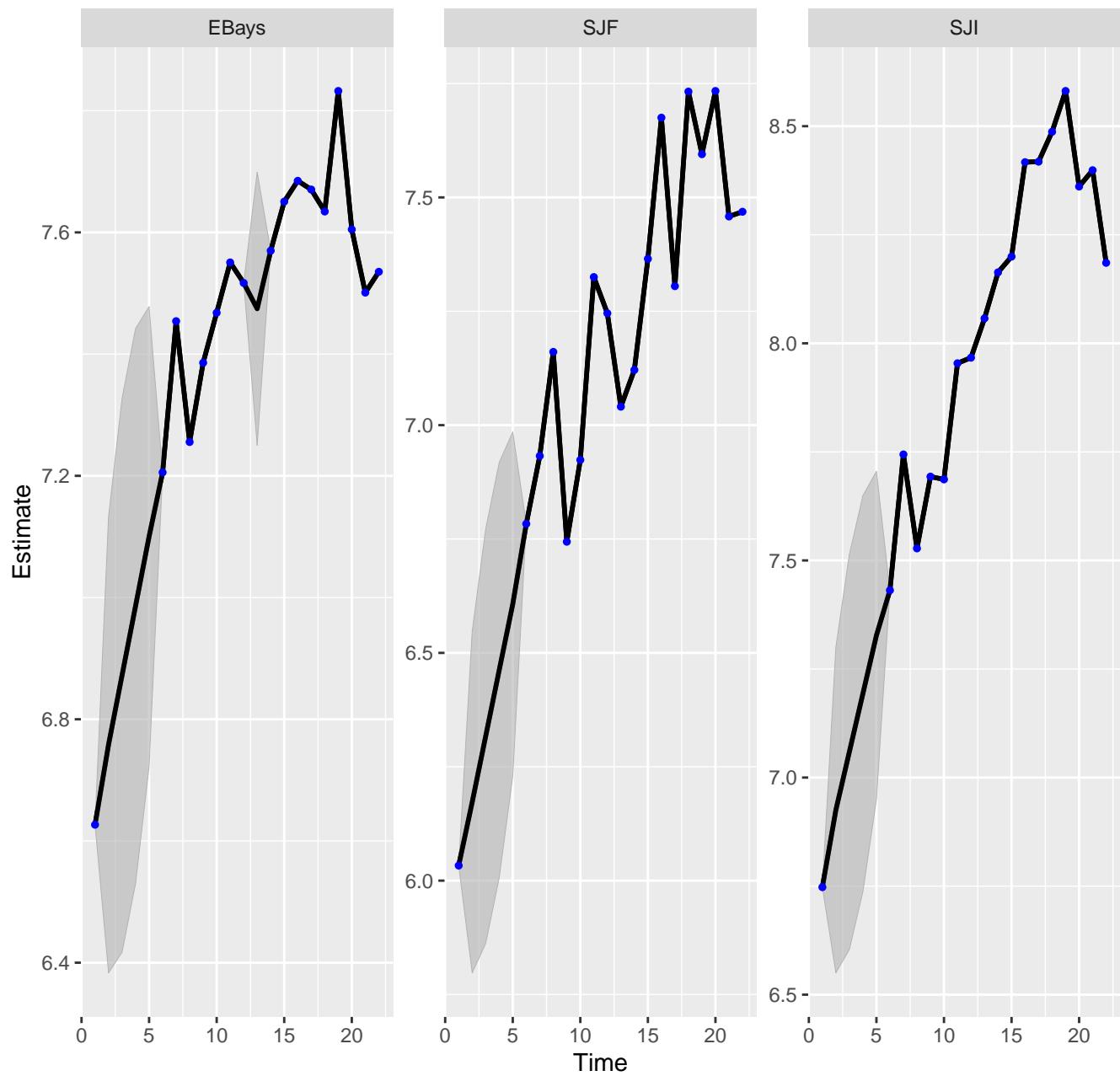
Model residuals normality test



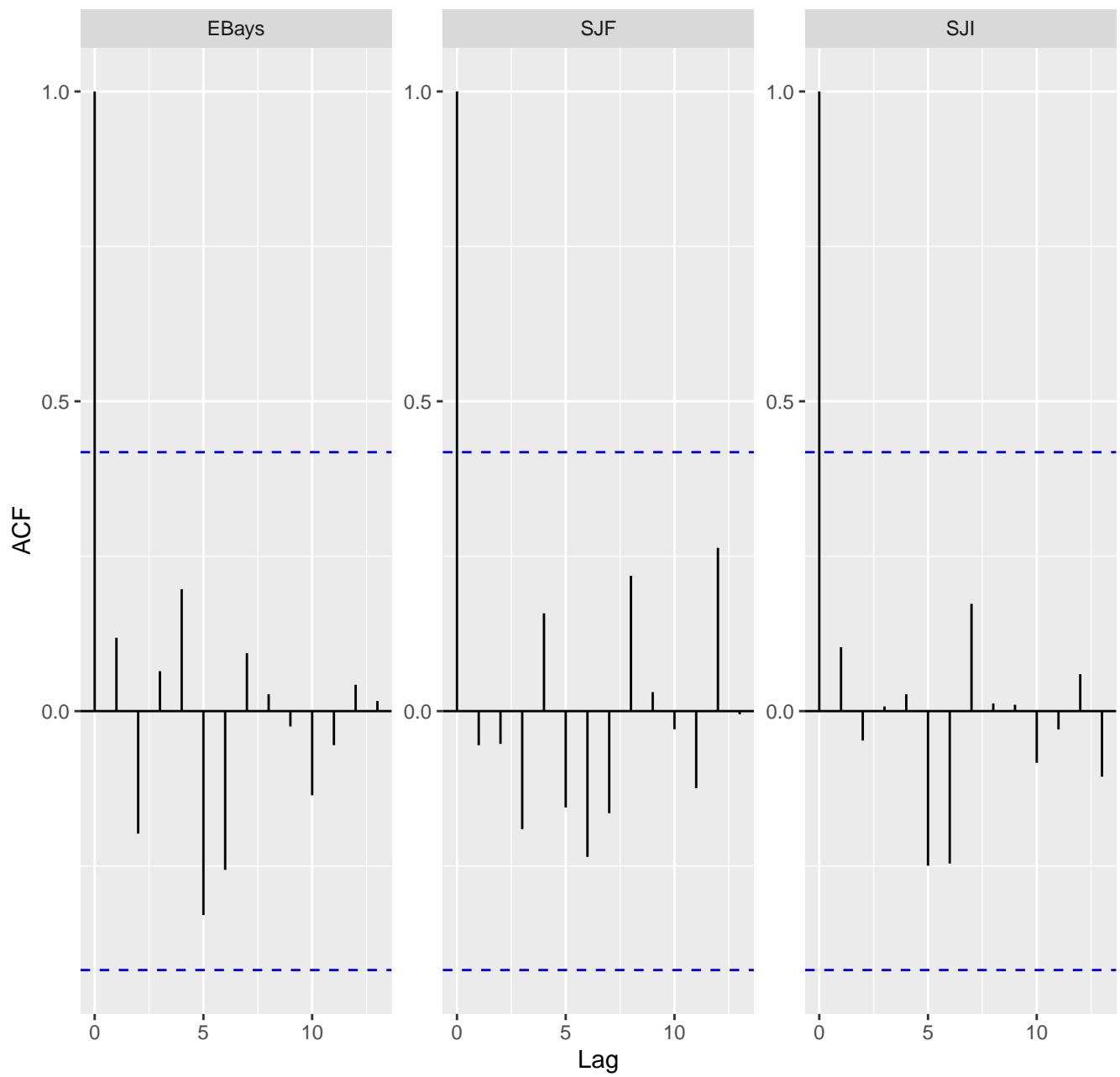
State residuals normality test

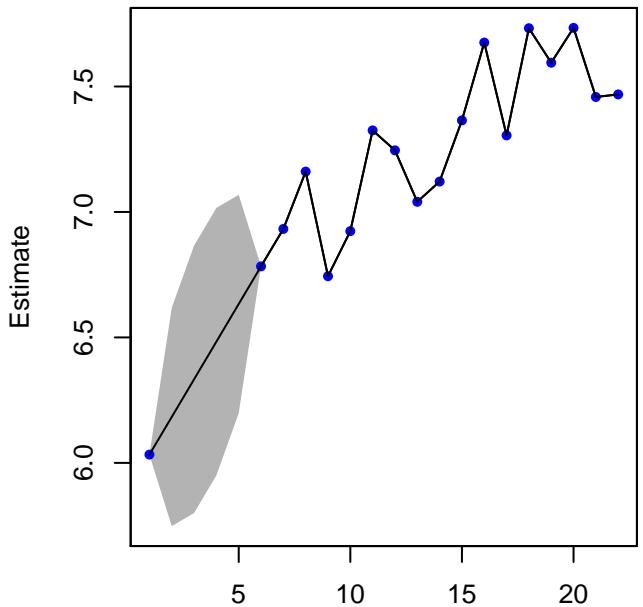
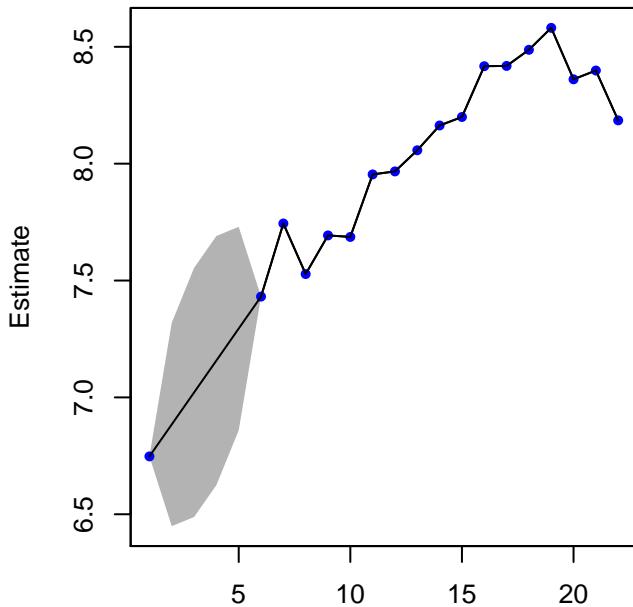
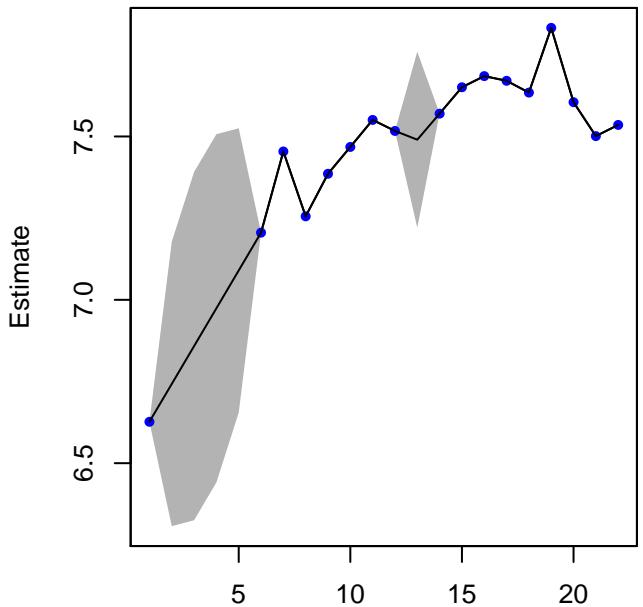


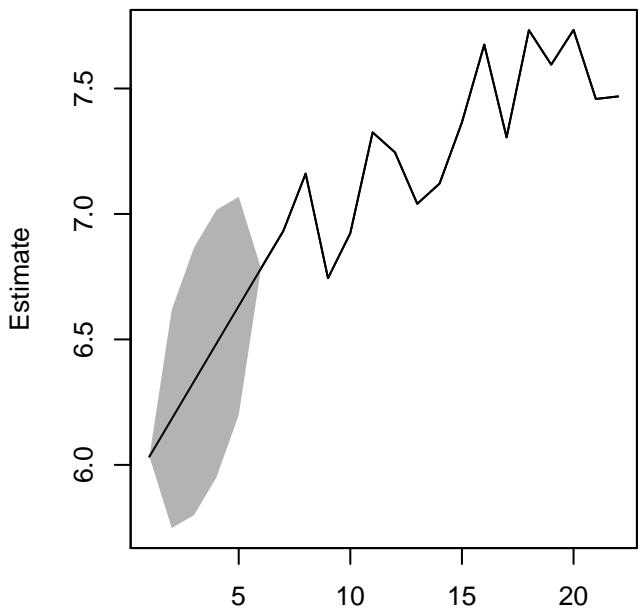
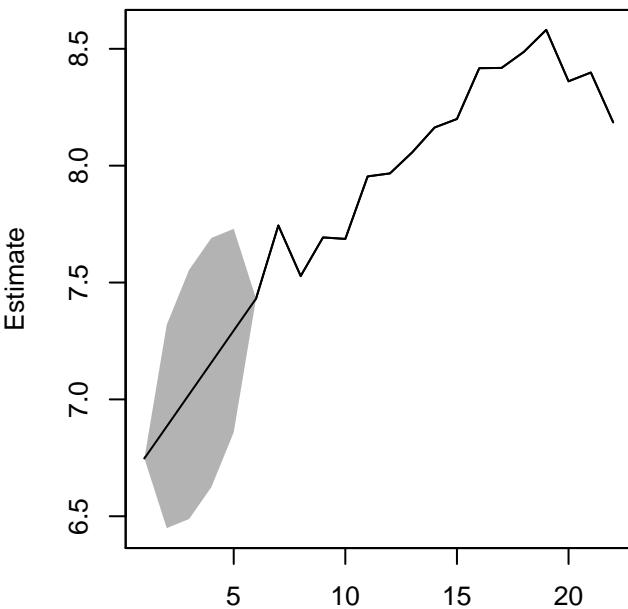
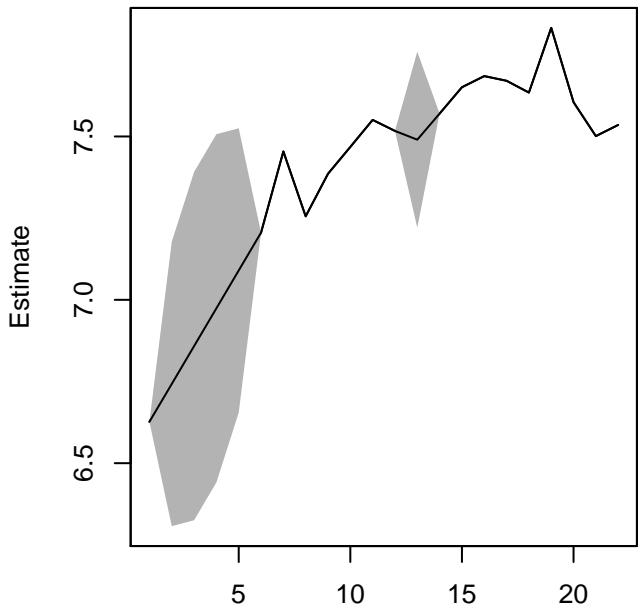
Expected value of Y conditioned on data



Model innovations residuals ACF

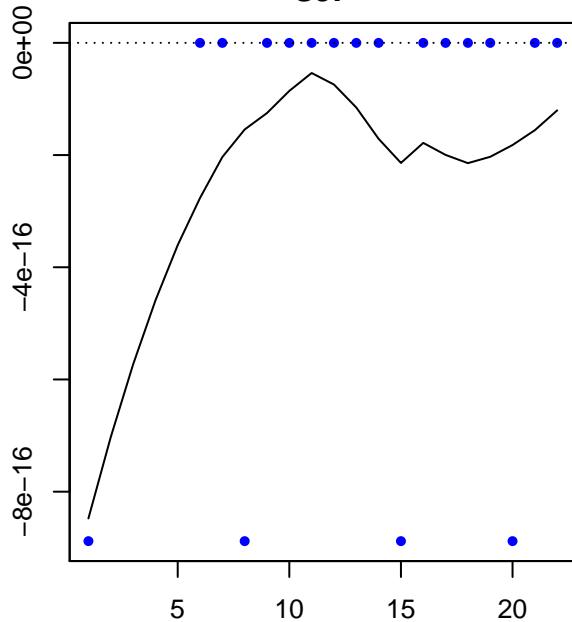


SJF + CI**SJI + CI****EBays + CI**

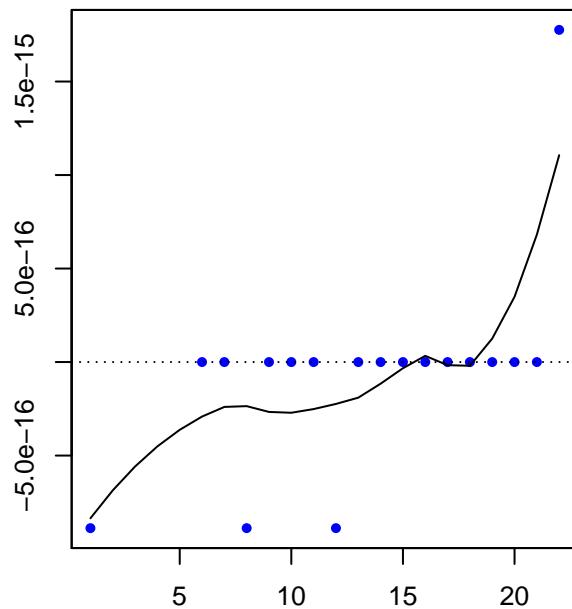
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

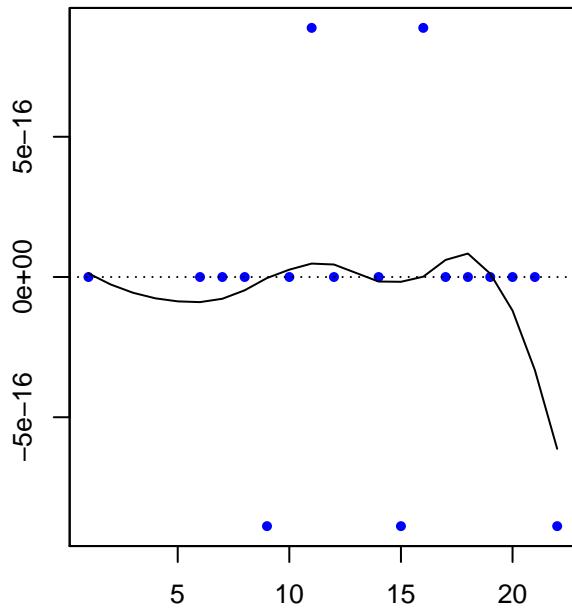
SJF



SJI

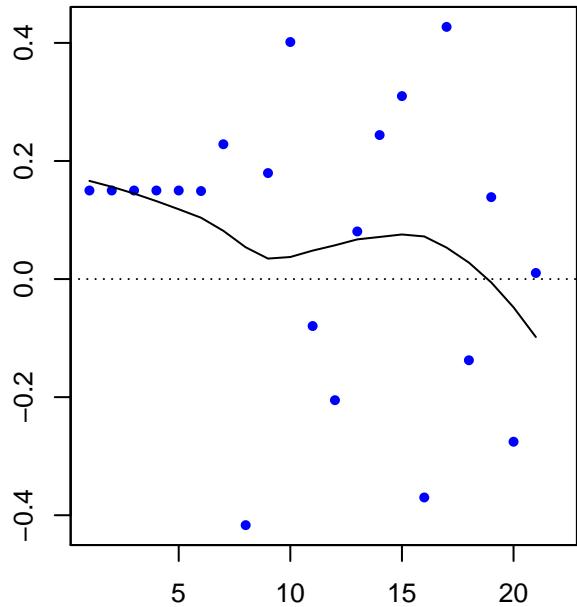


EBays

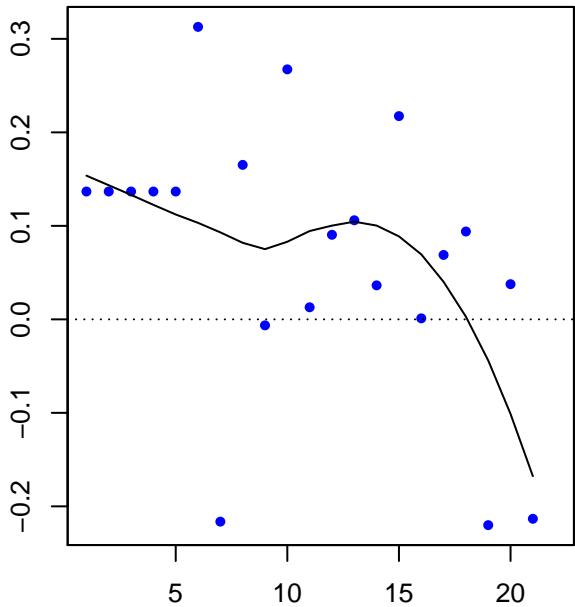


State residuals, $x_{tT} - E[x]$

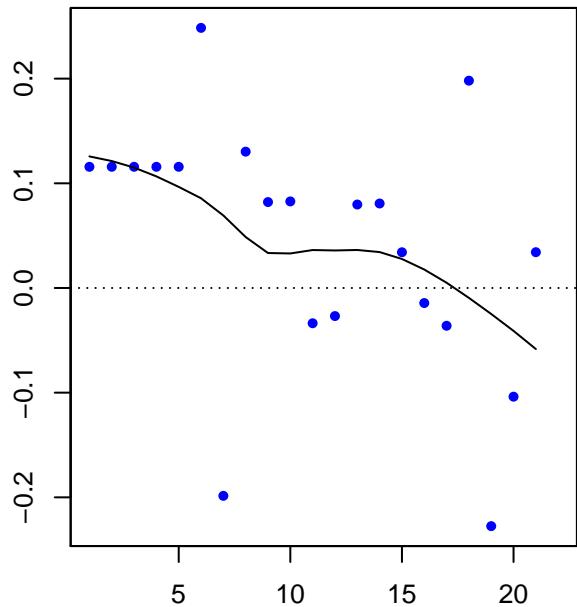
State X.SJF

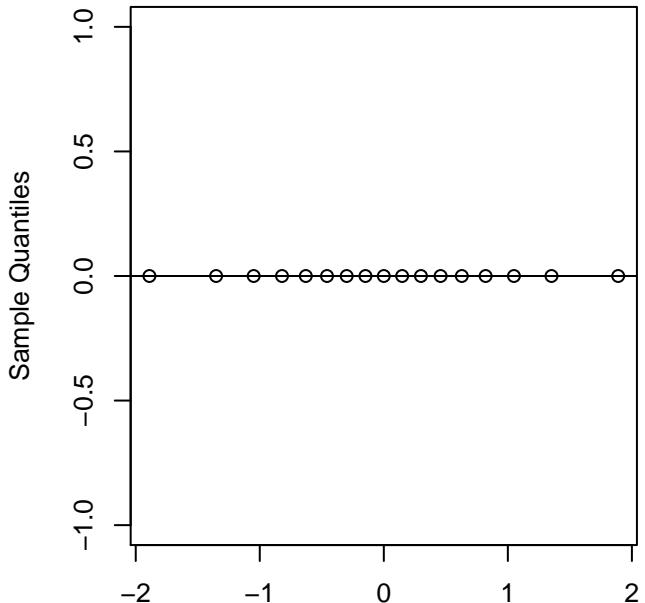
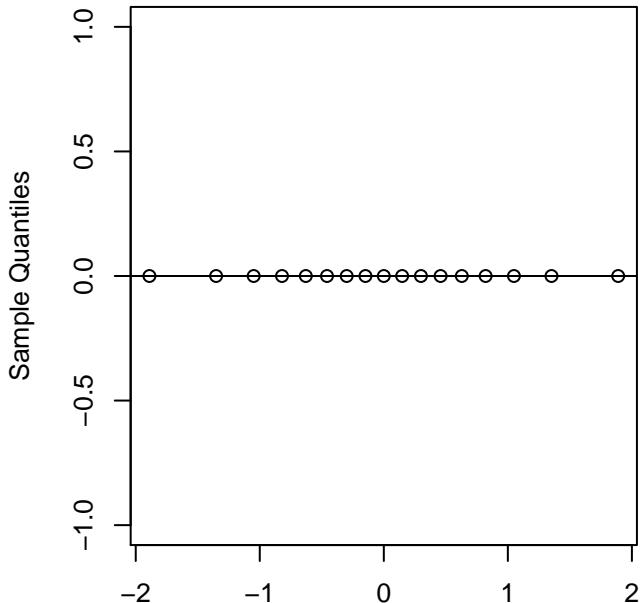
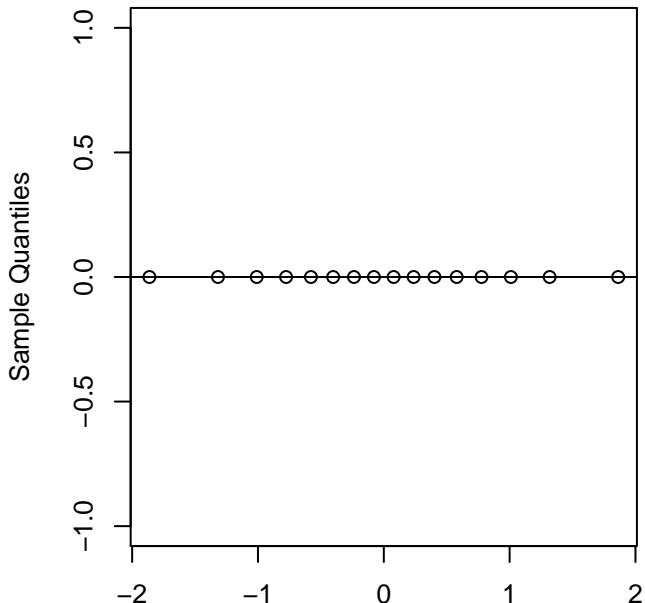


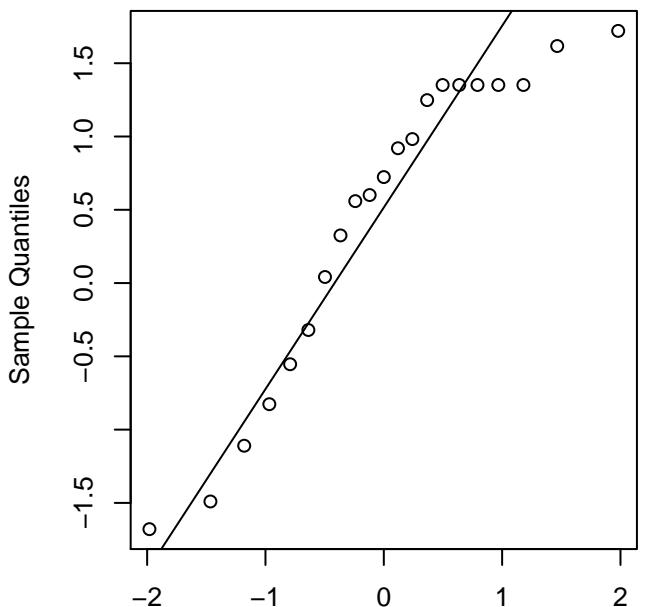
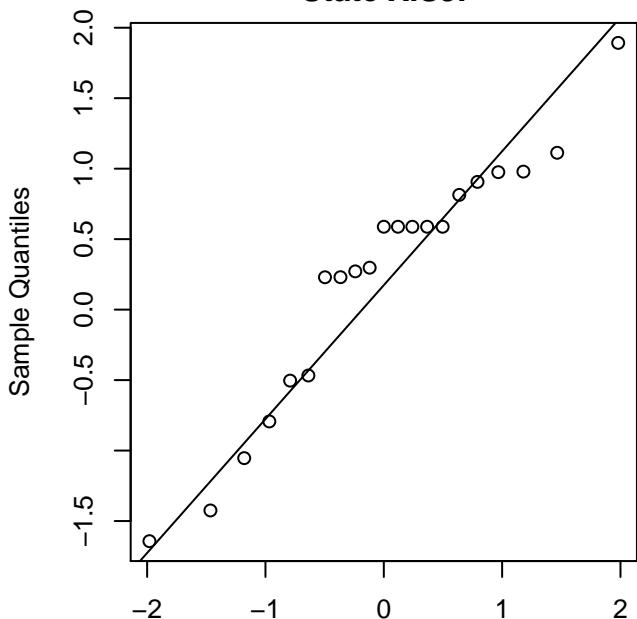
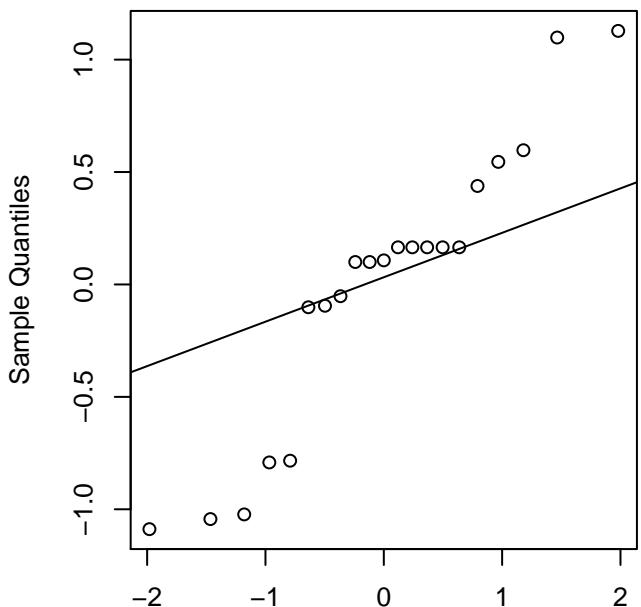
State X.SJI

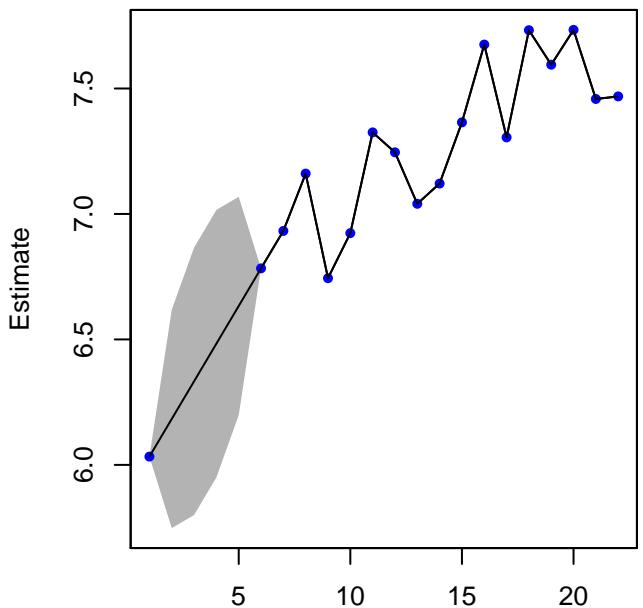
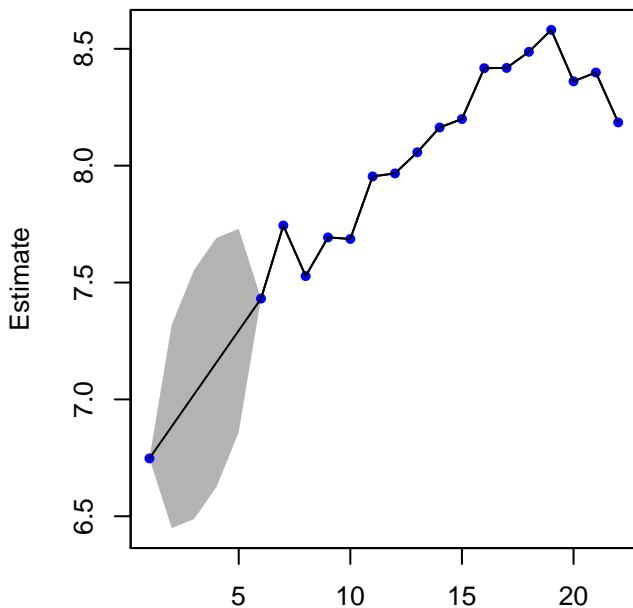
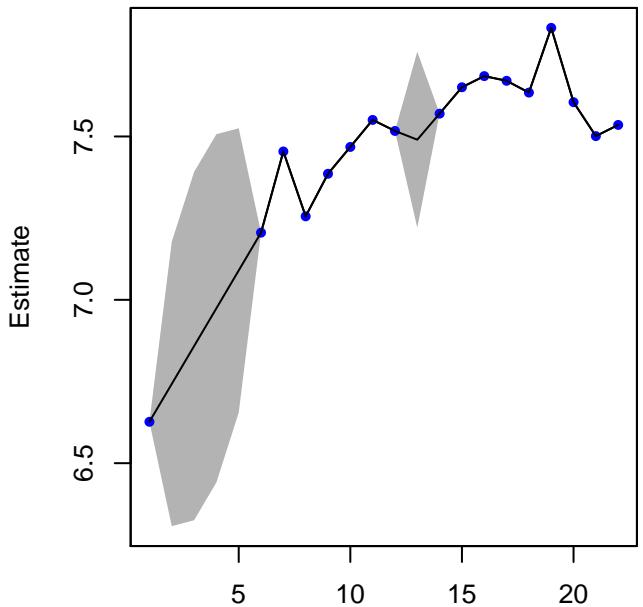


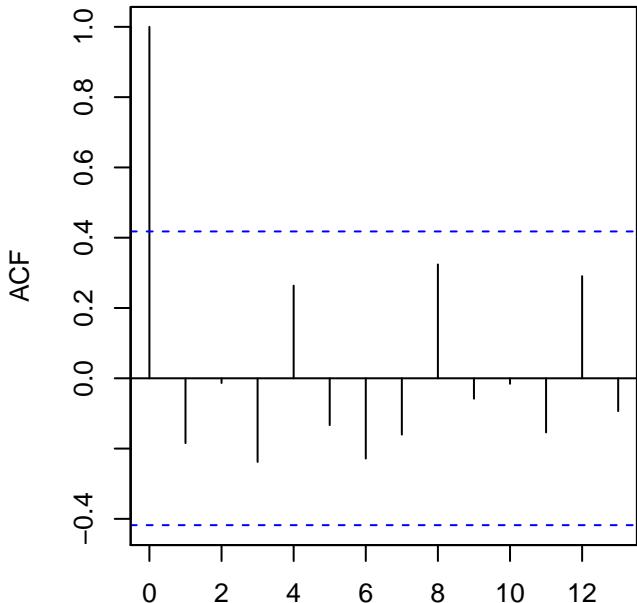
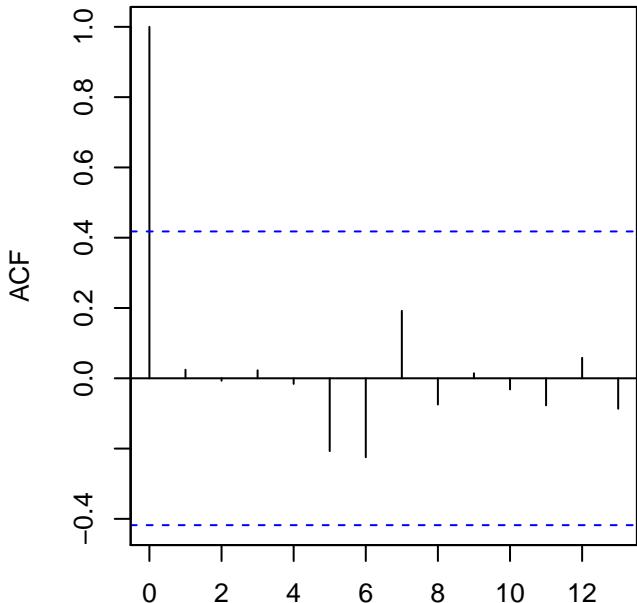
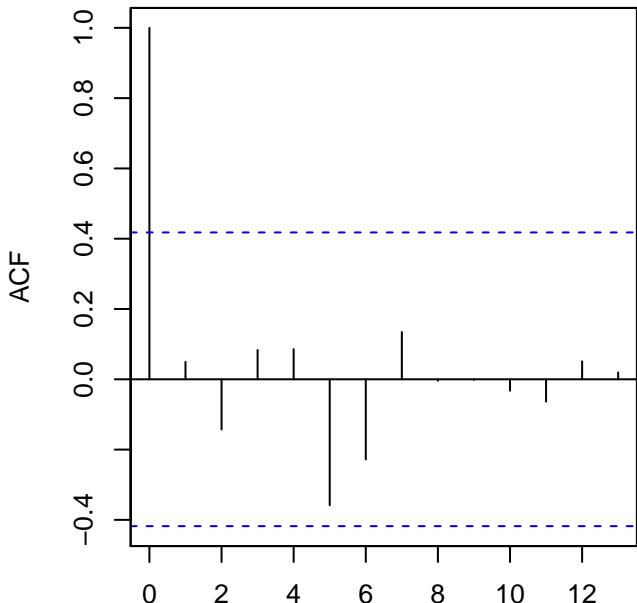
State X.EBays



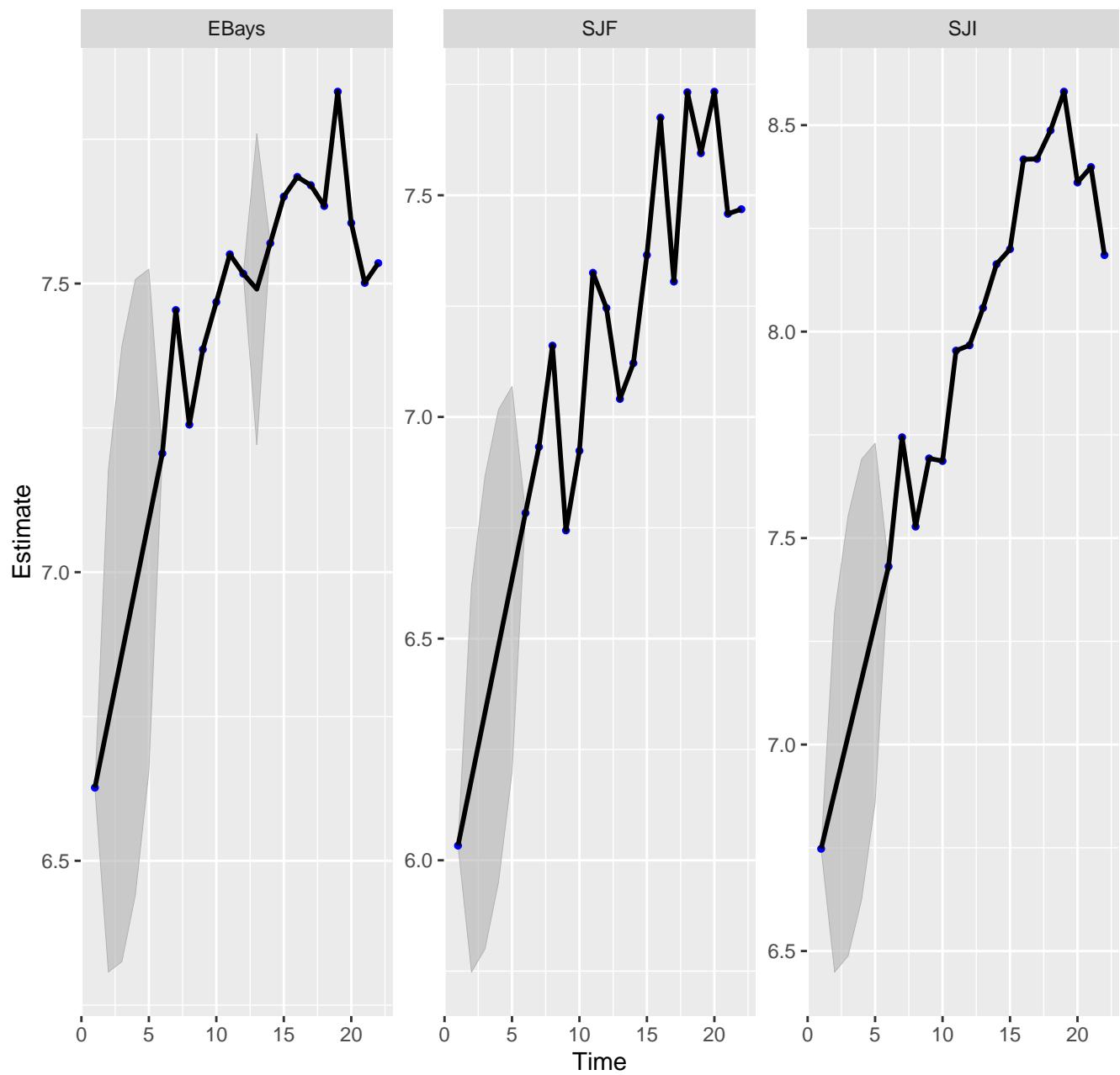
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

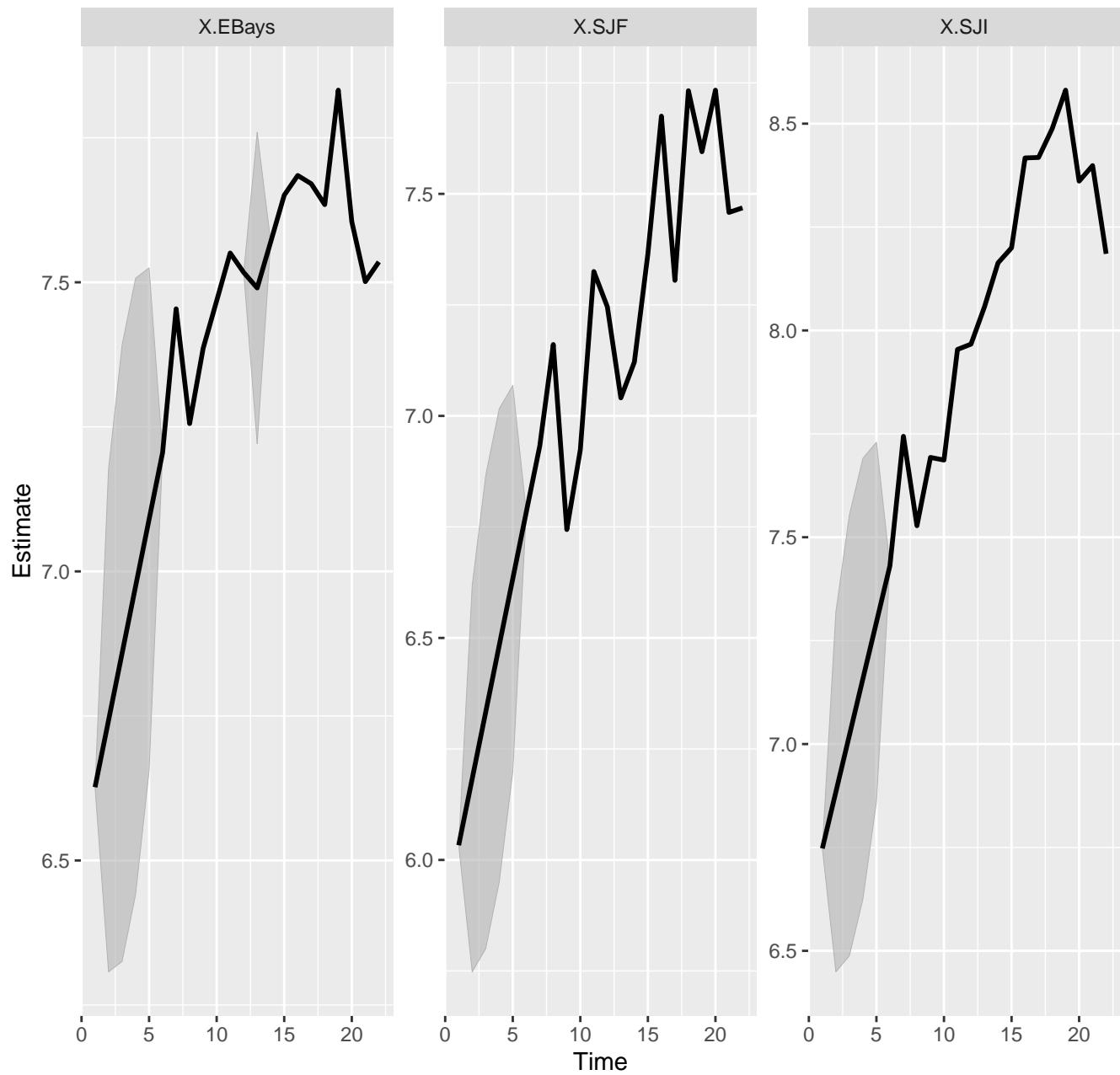
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

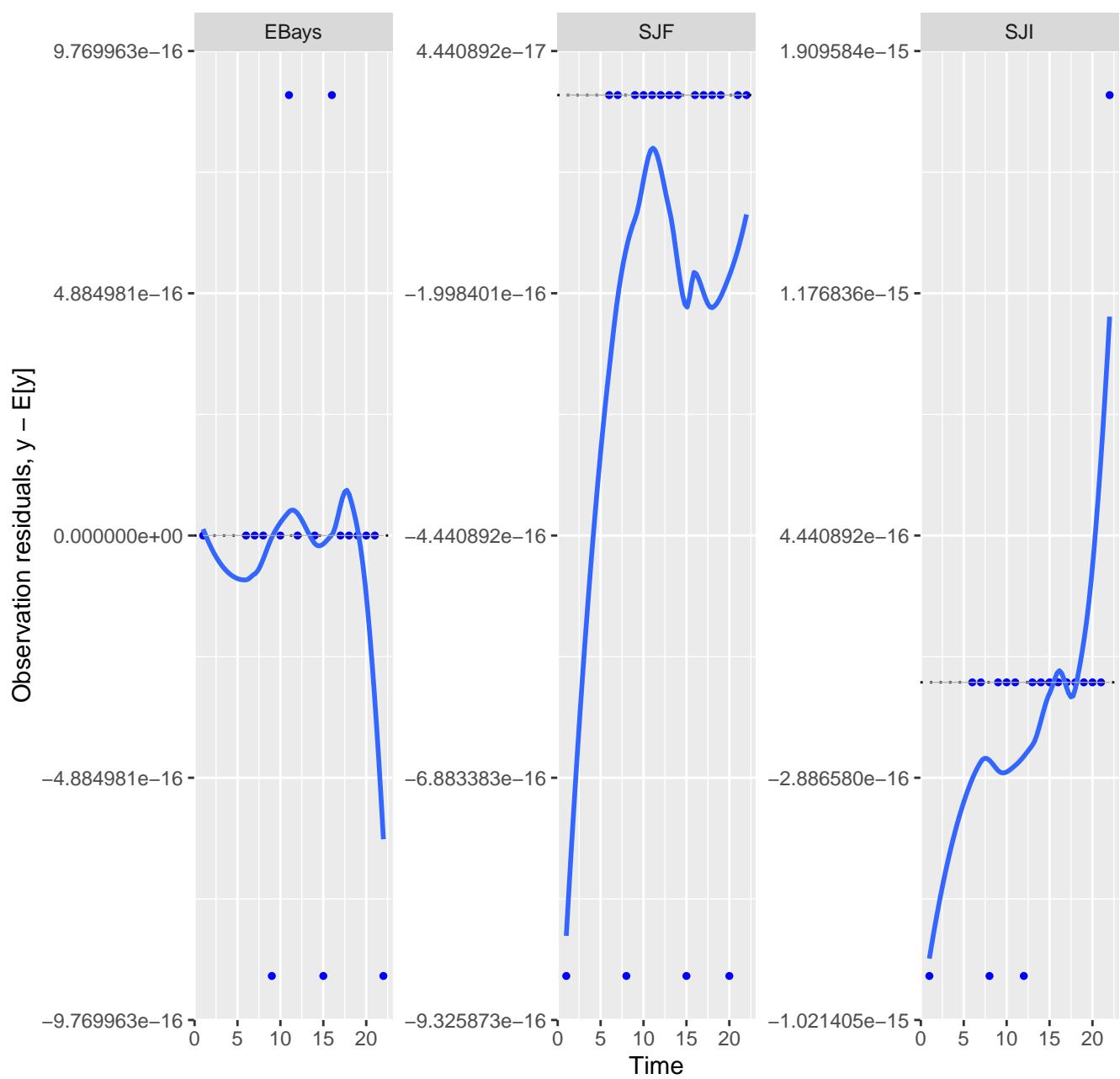
Model fitted Y + CI



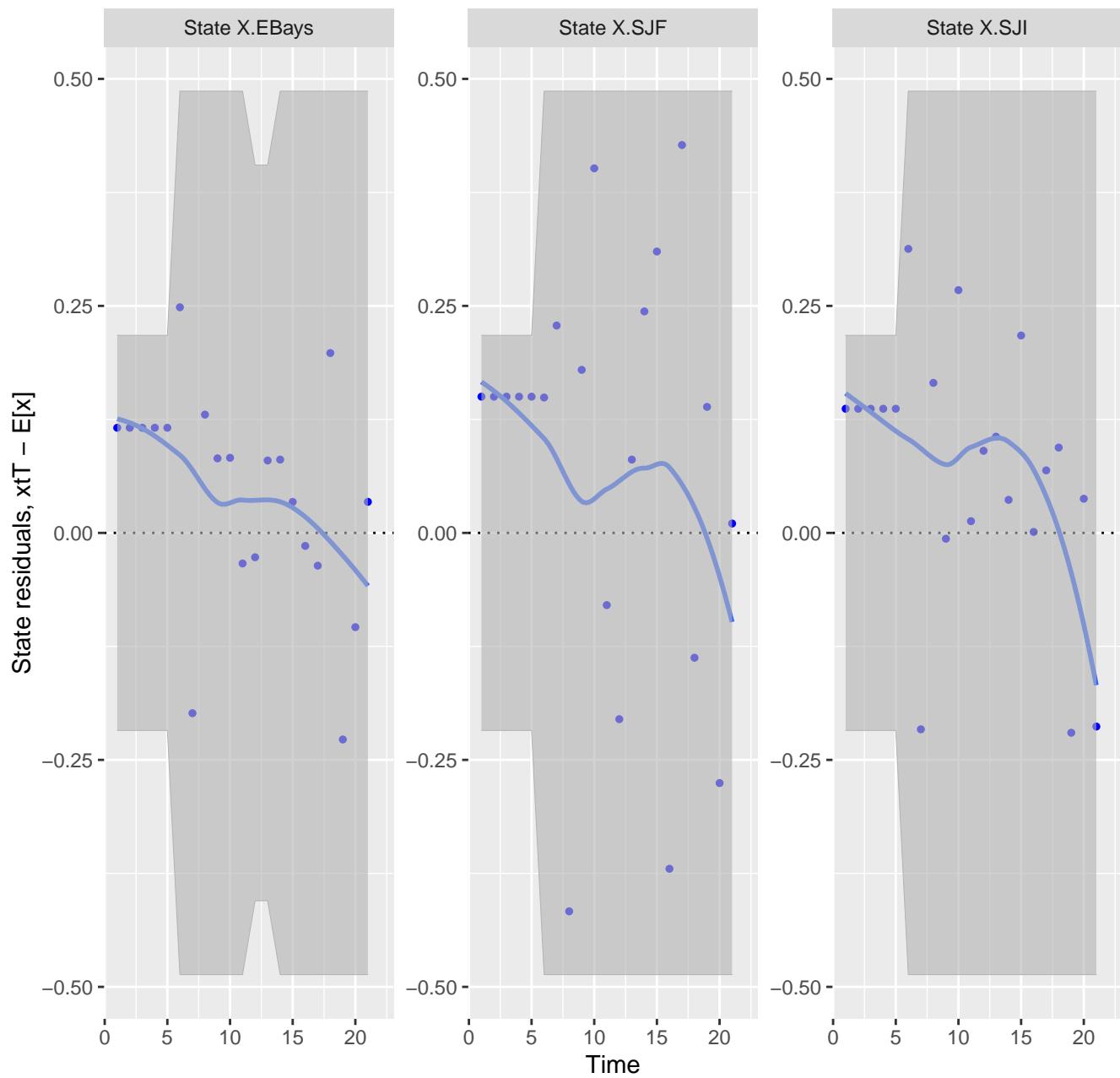
States



Model residuals

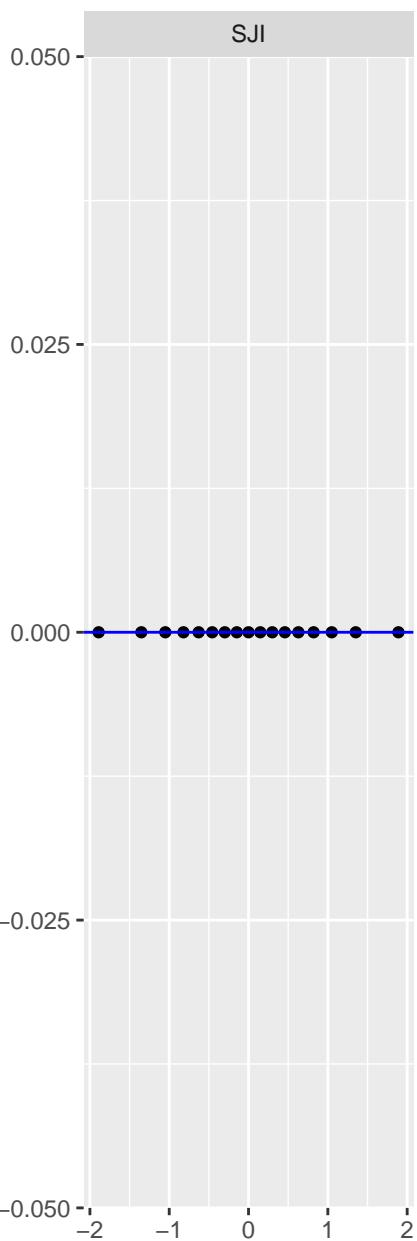
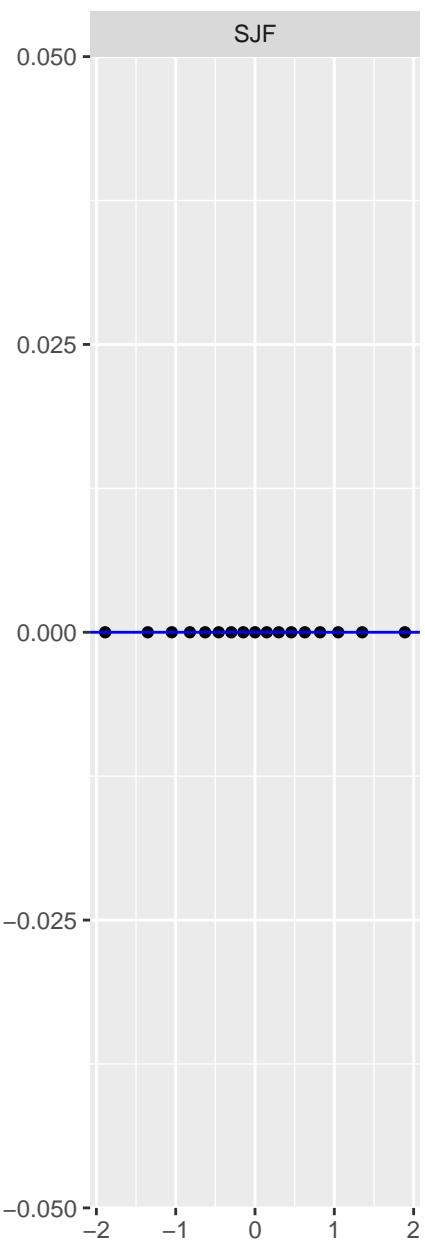
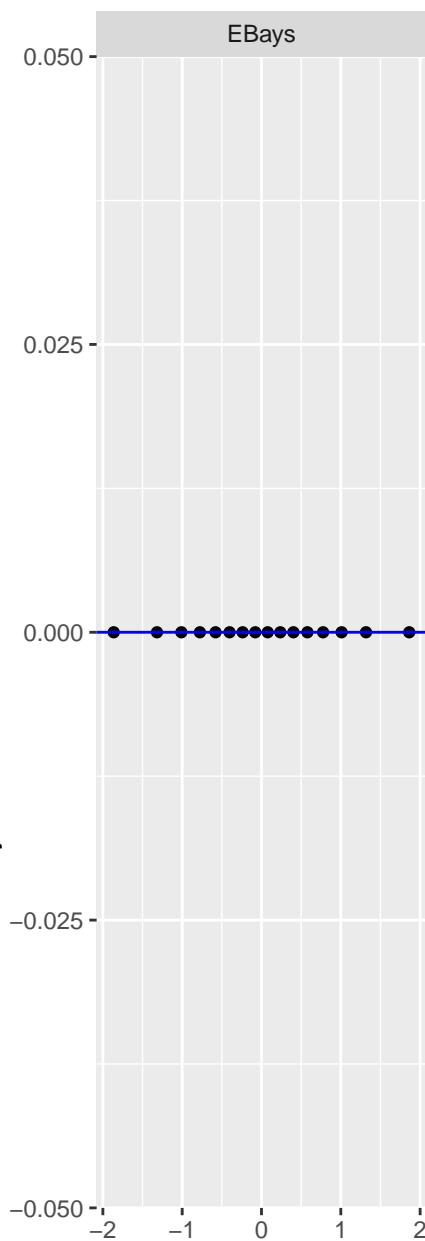


State residuals



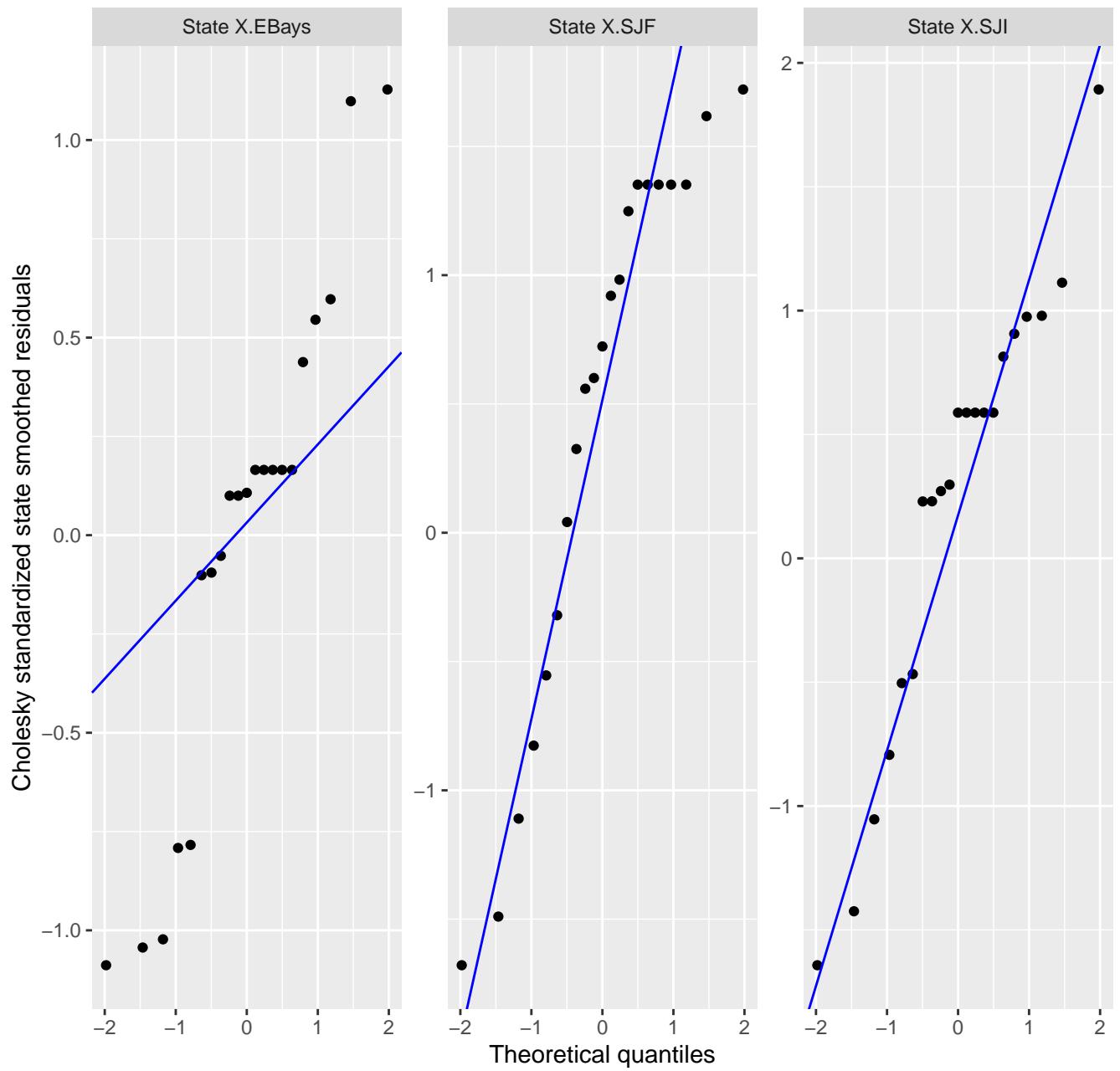
Model residuals normality test

Cholesky standardized model smoothed residuals

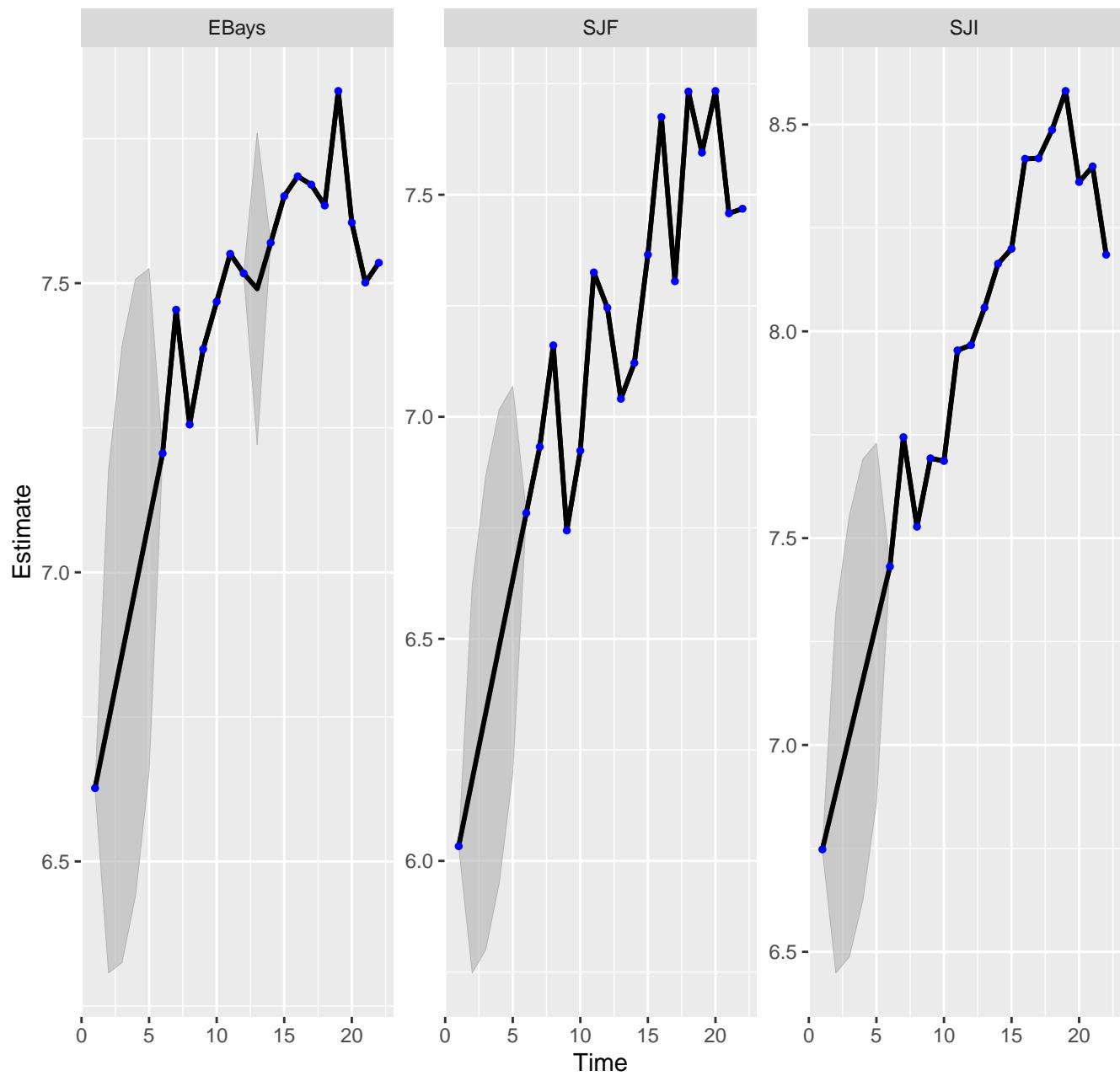


Theoretical quantiles

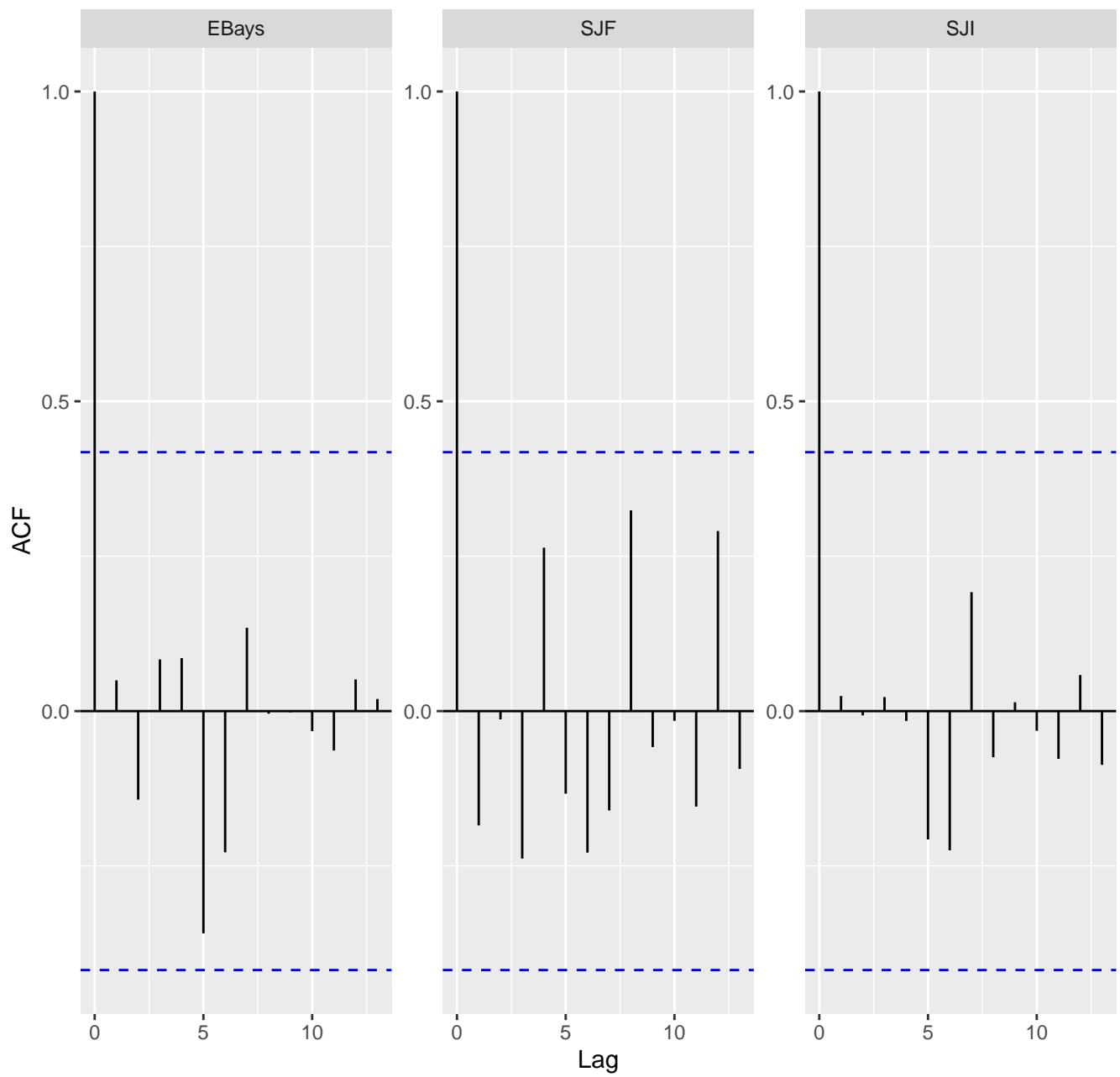
State residuals normality test

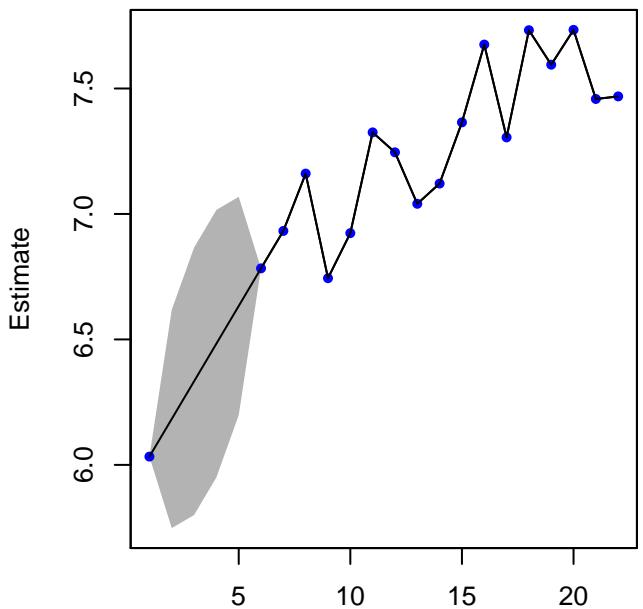
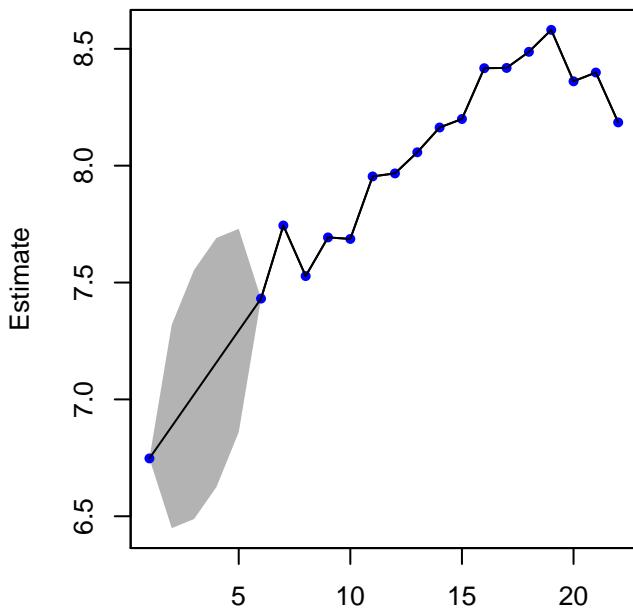
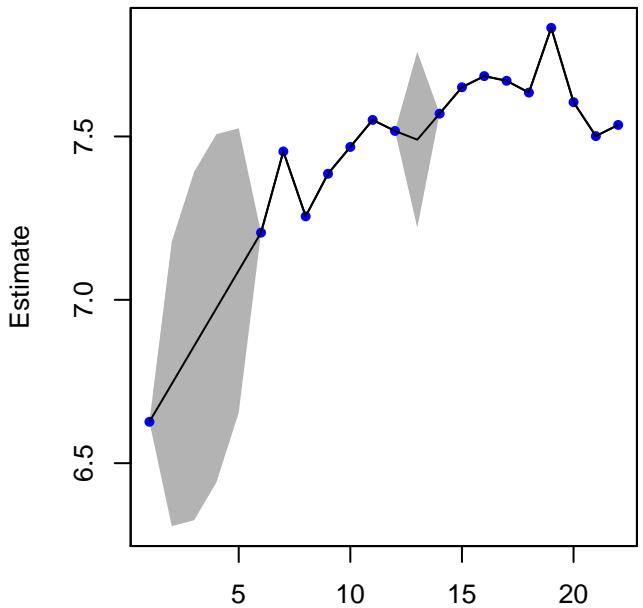


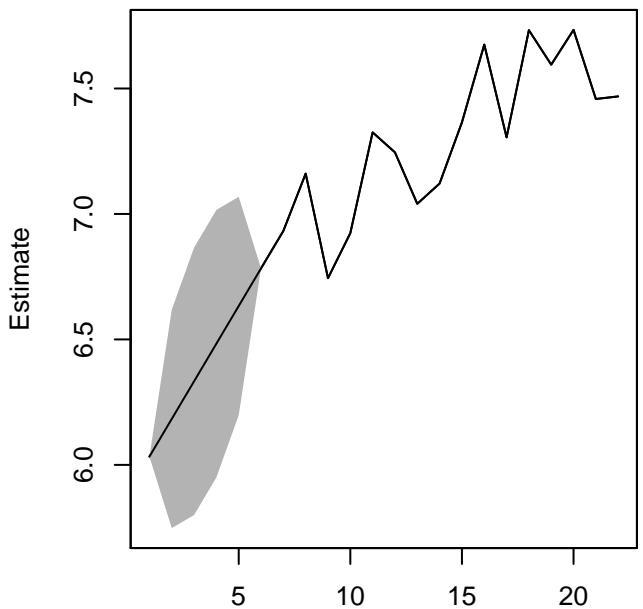
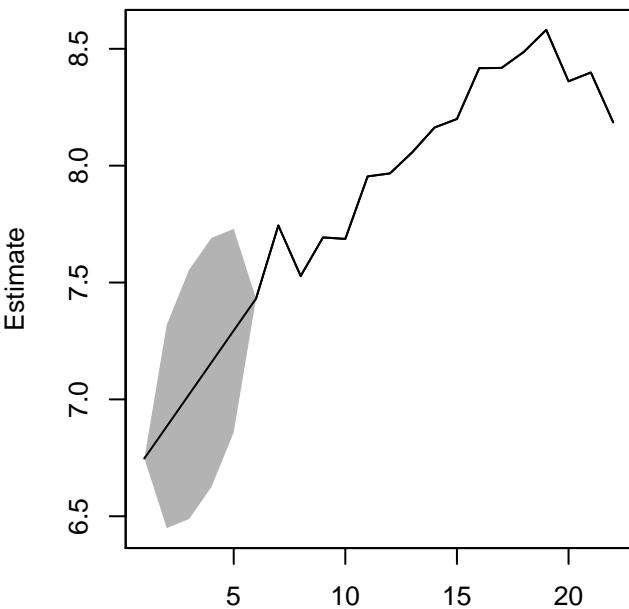
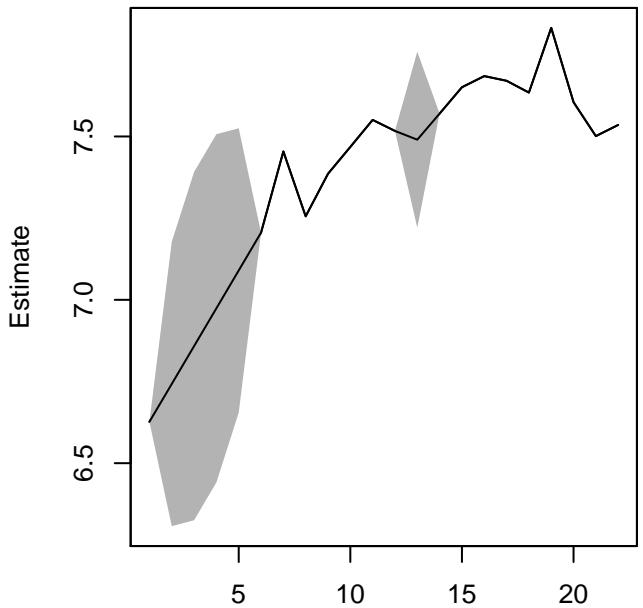
Expected value of Y conditioned on data



Model innovations residuals ACF

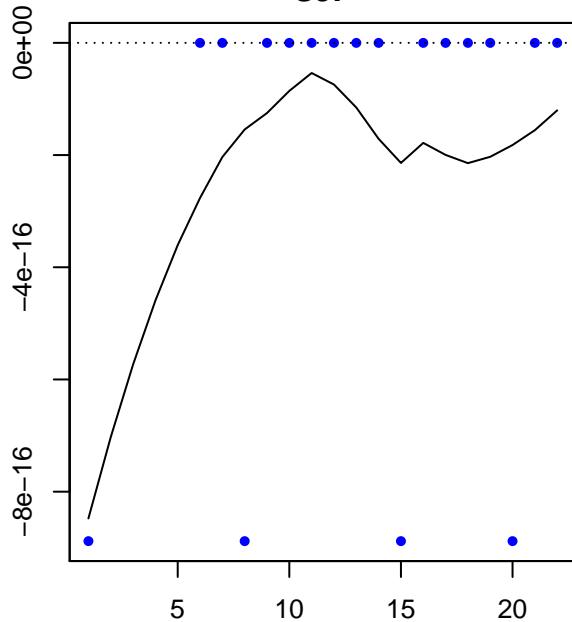


SJF + CI**SJI + CI****EBays + CI**

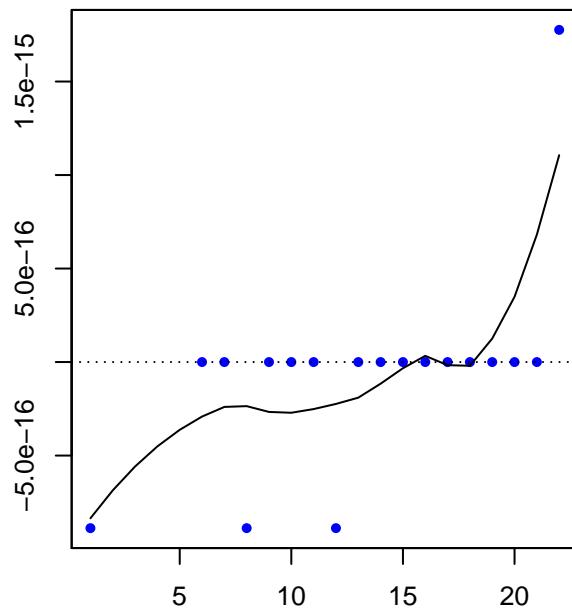
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

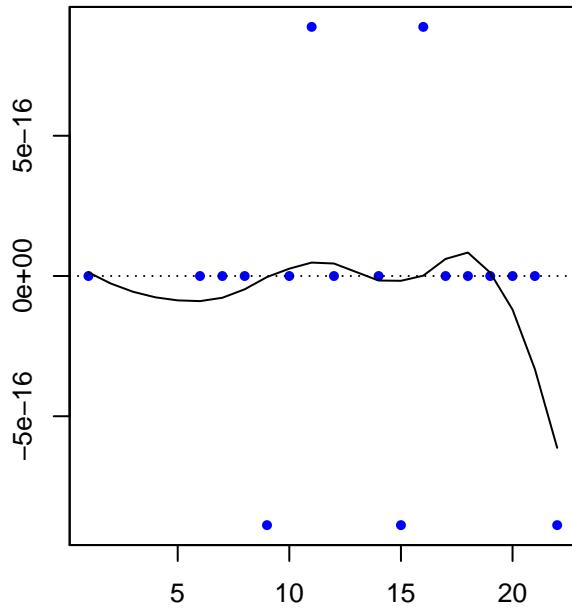
SJF



SJI

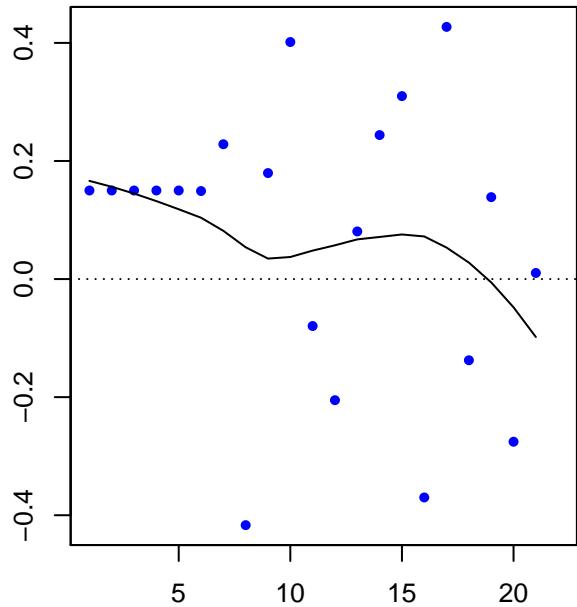


EBays

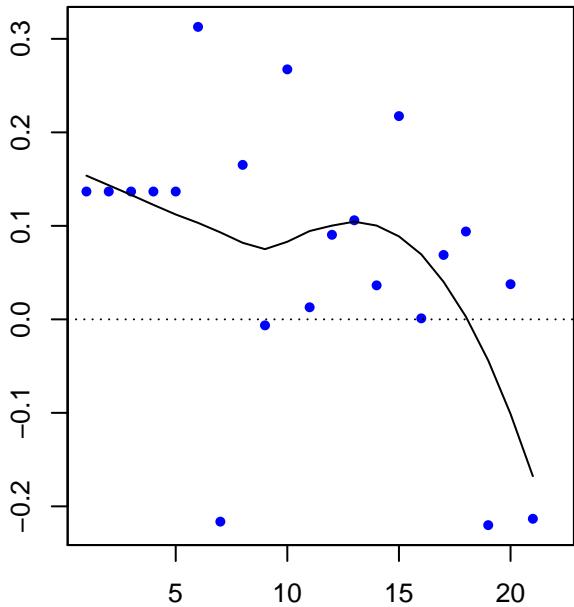


State residuals, $x_{tT} - E[x]$

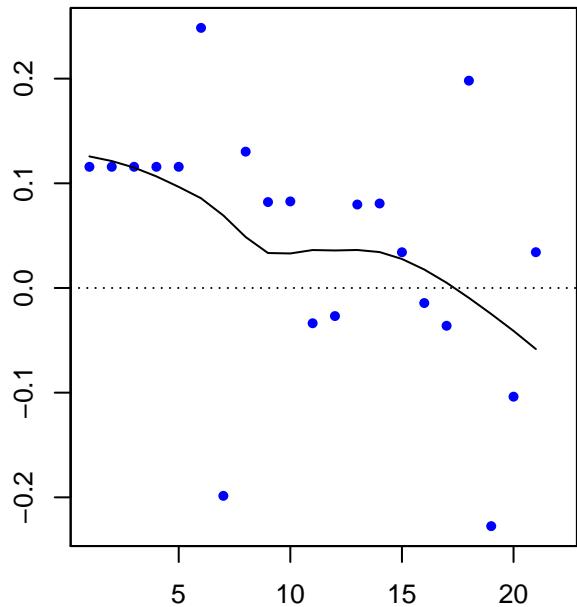
State X.SJF

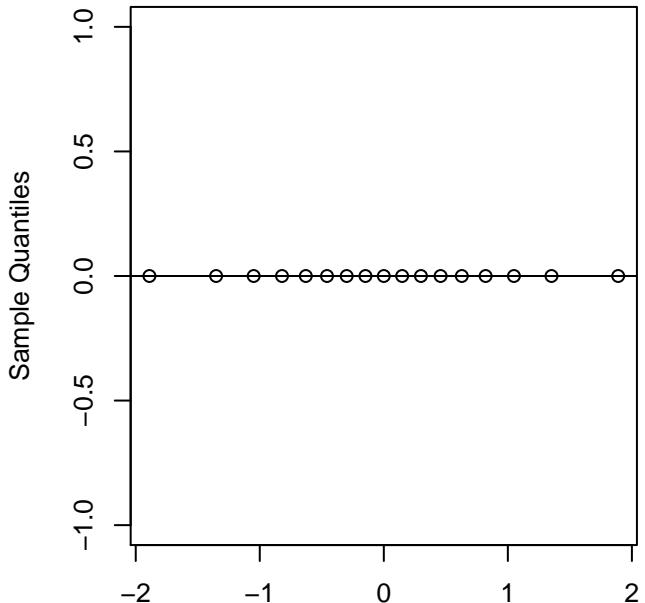
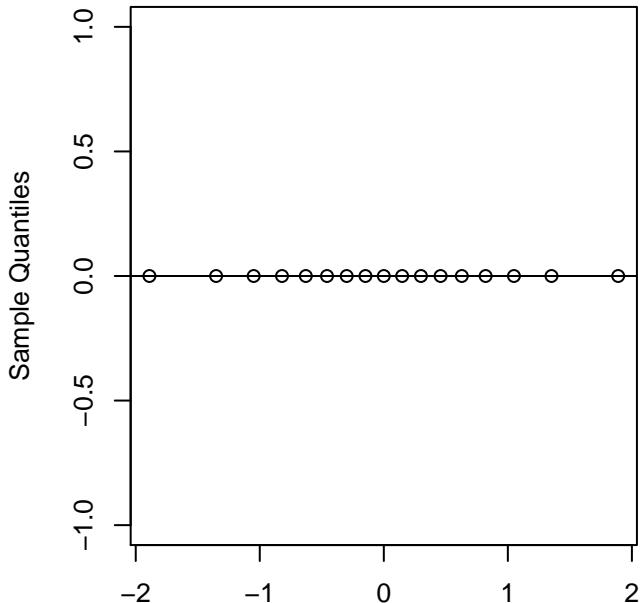
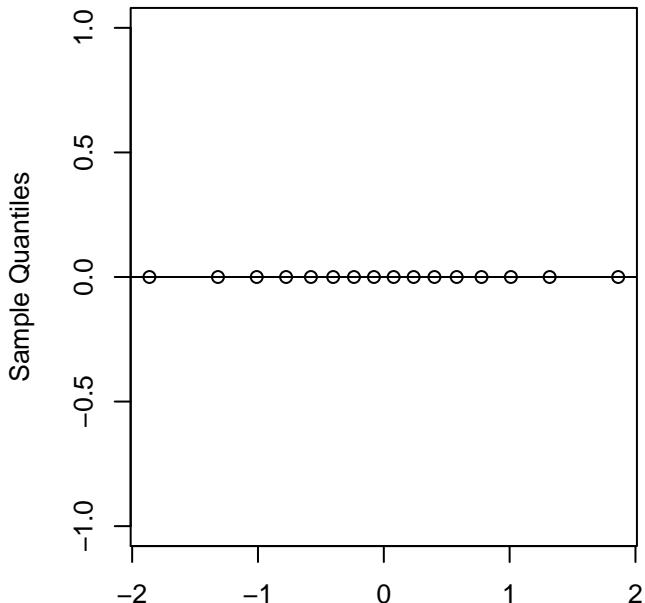


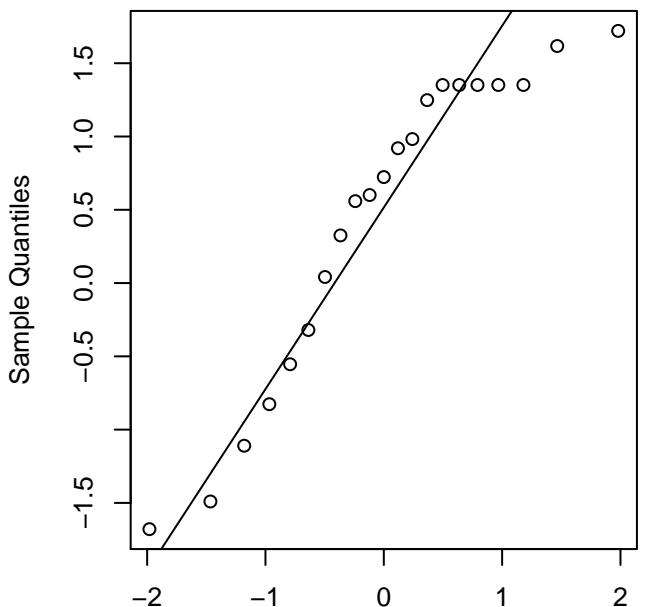
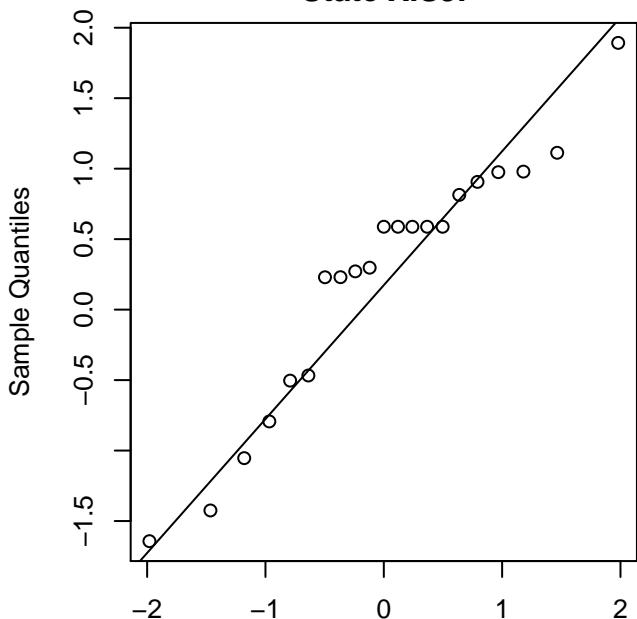
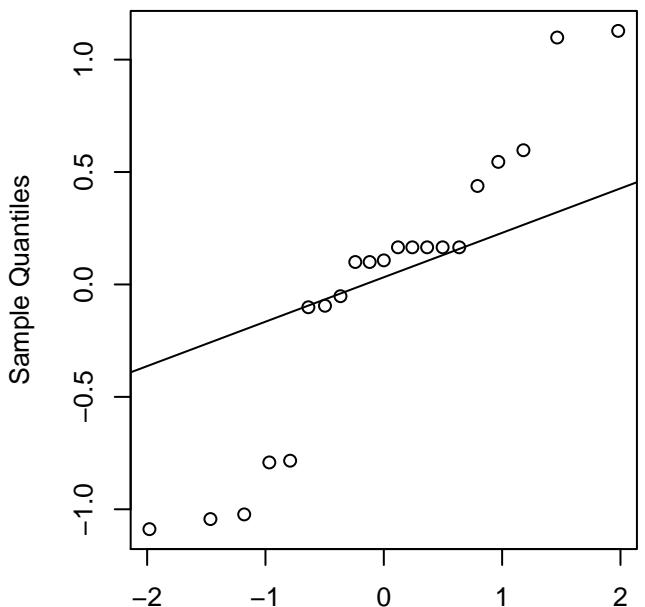
State X.SJI

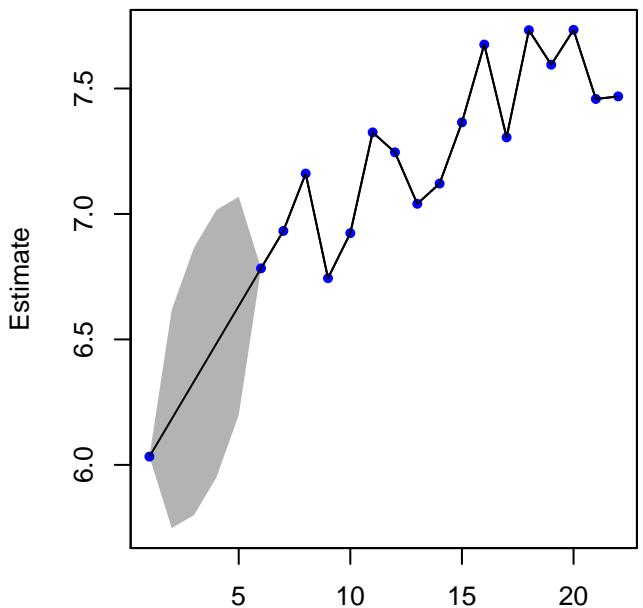
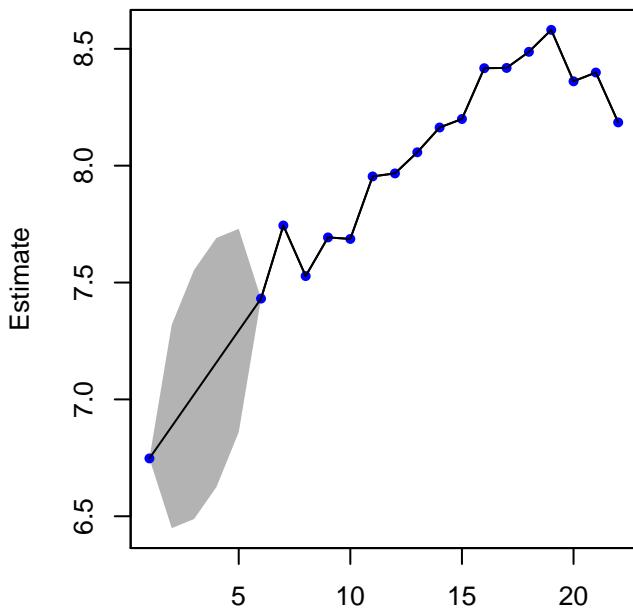
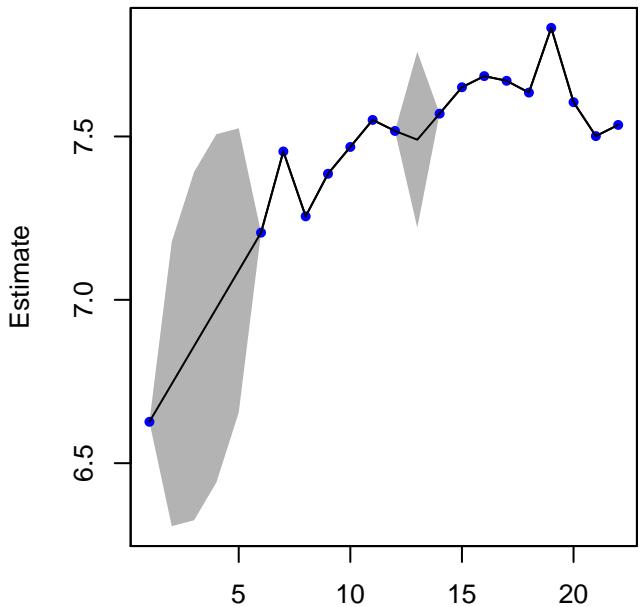


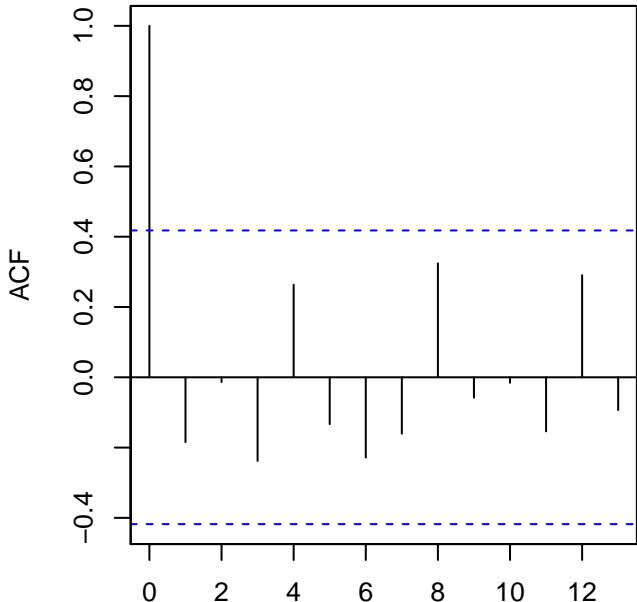
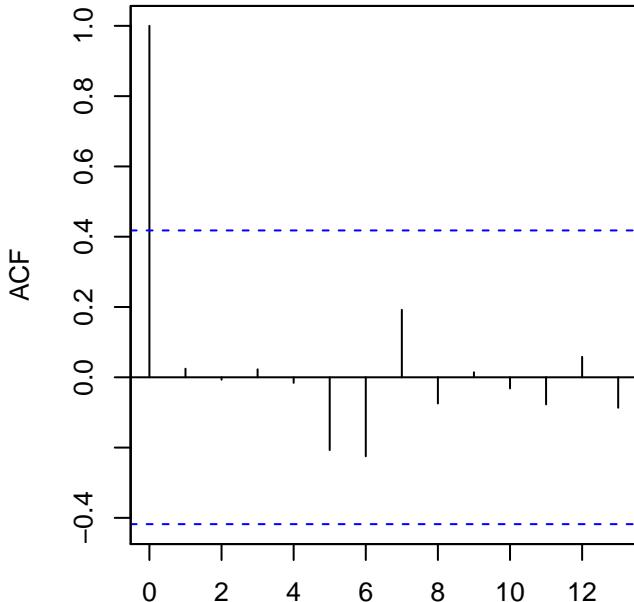
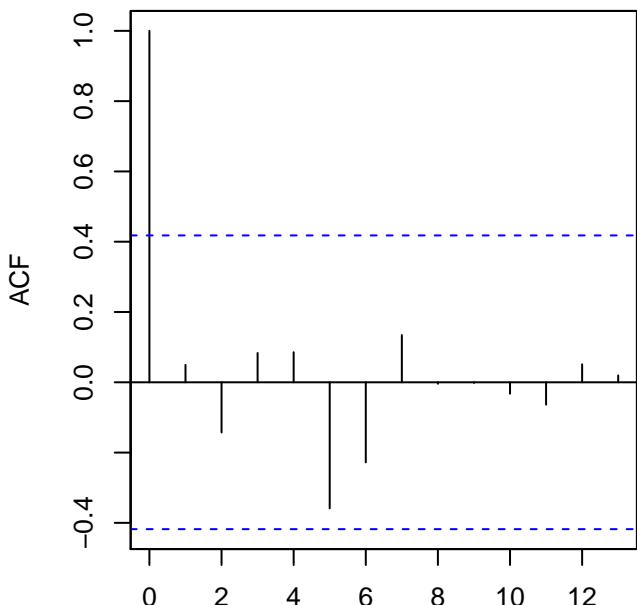
State X.EBays



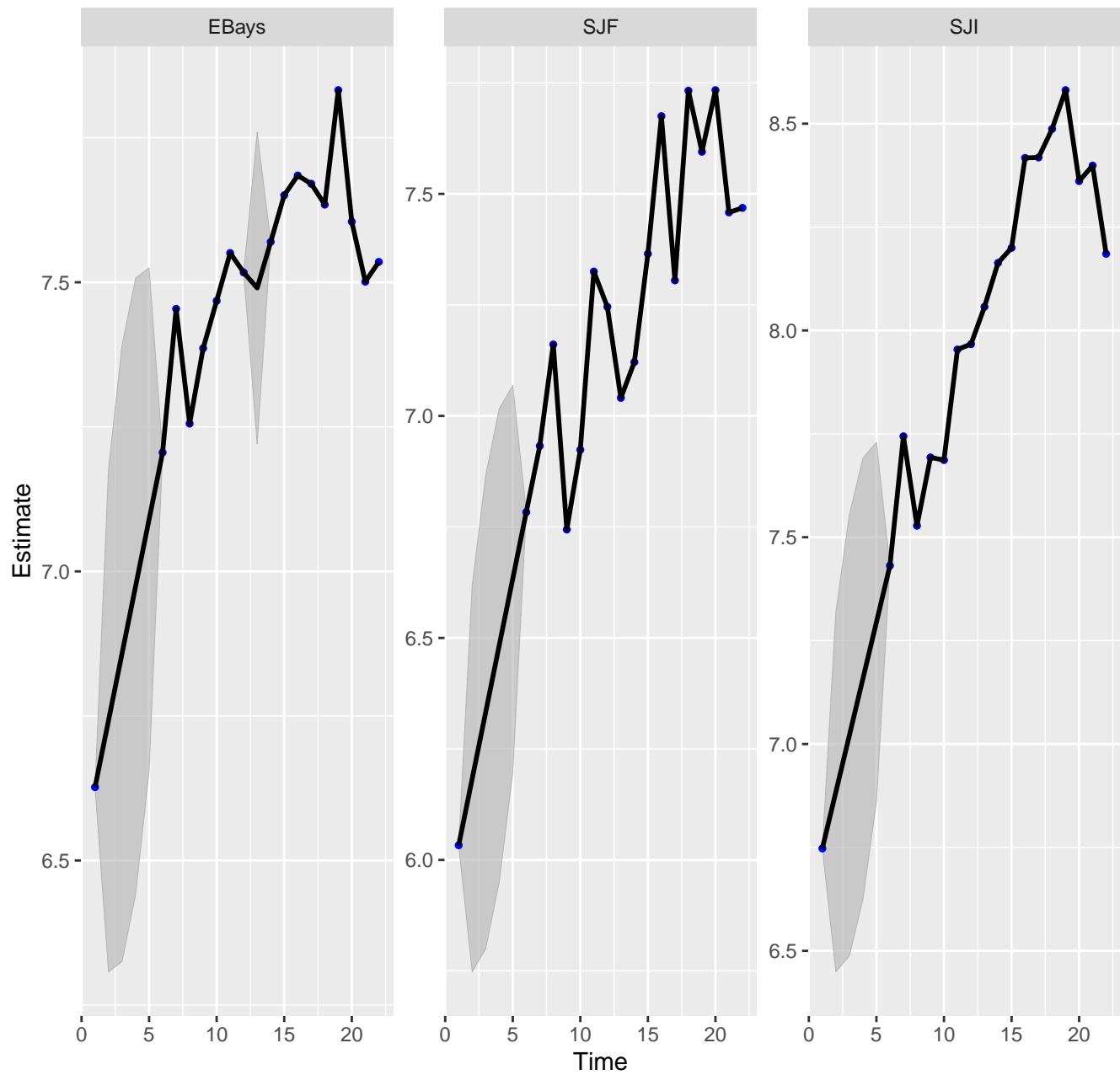
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

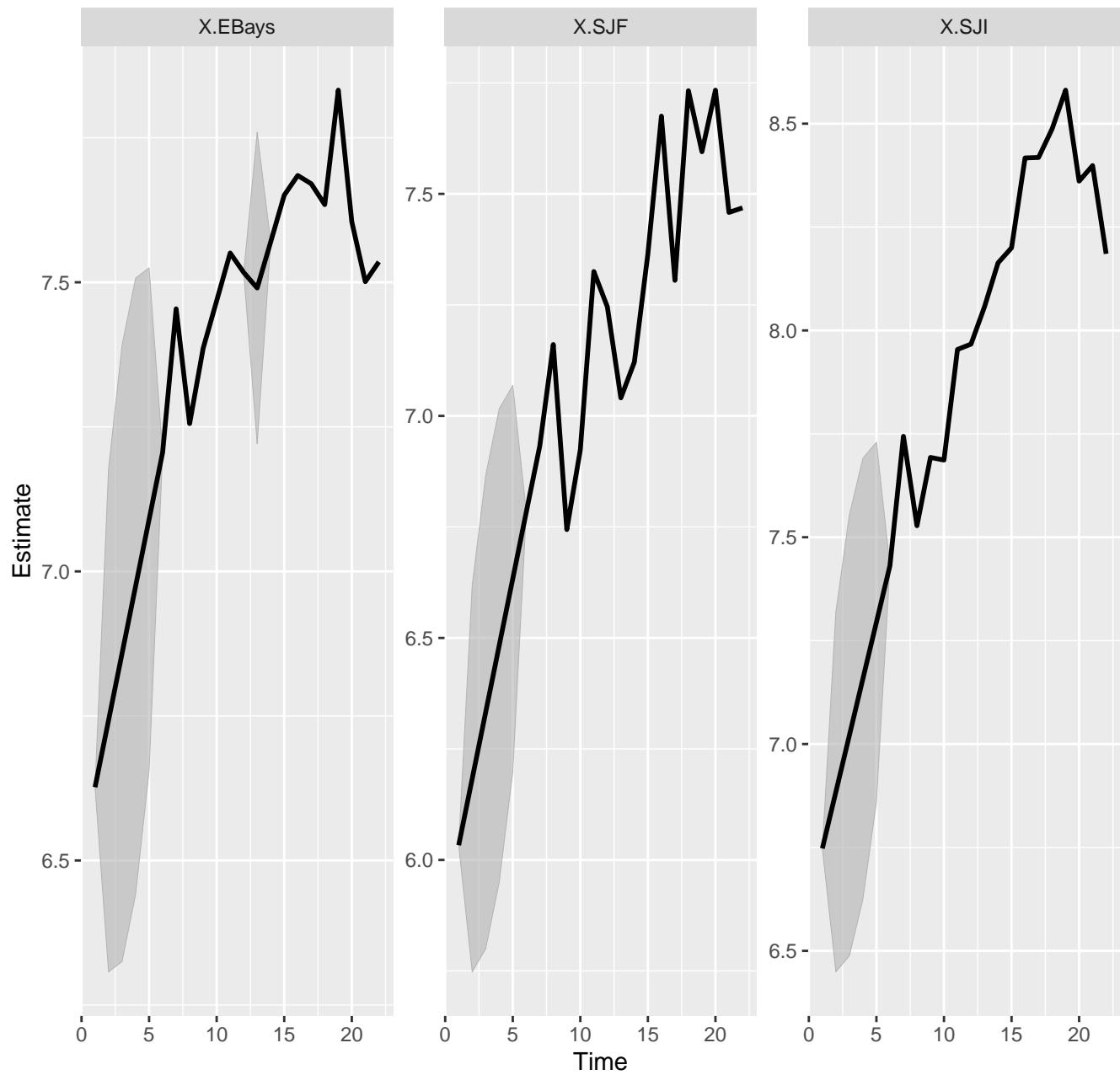
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

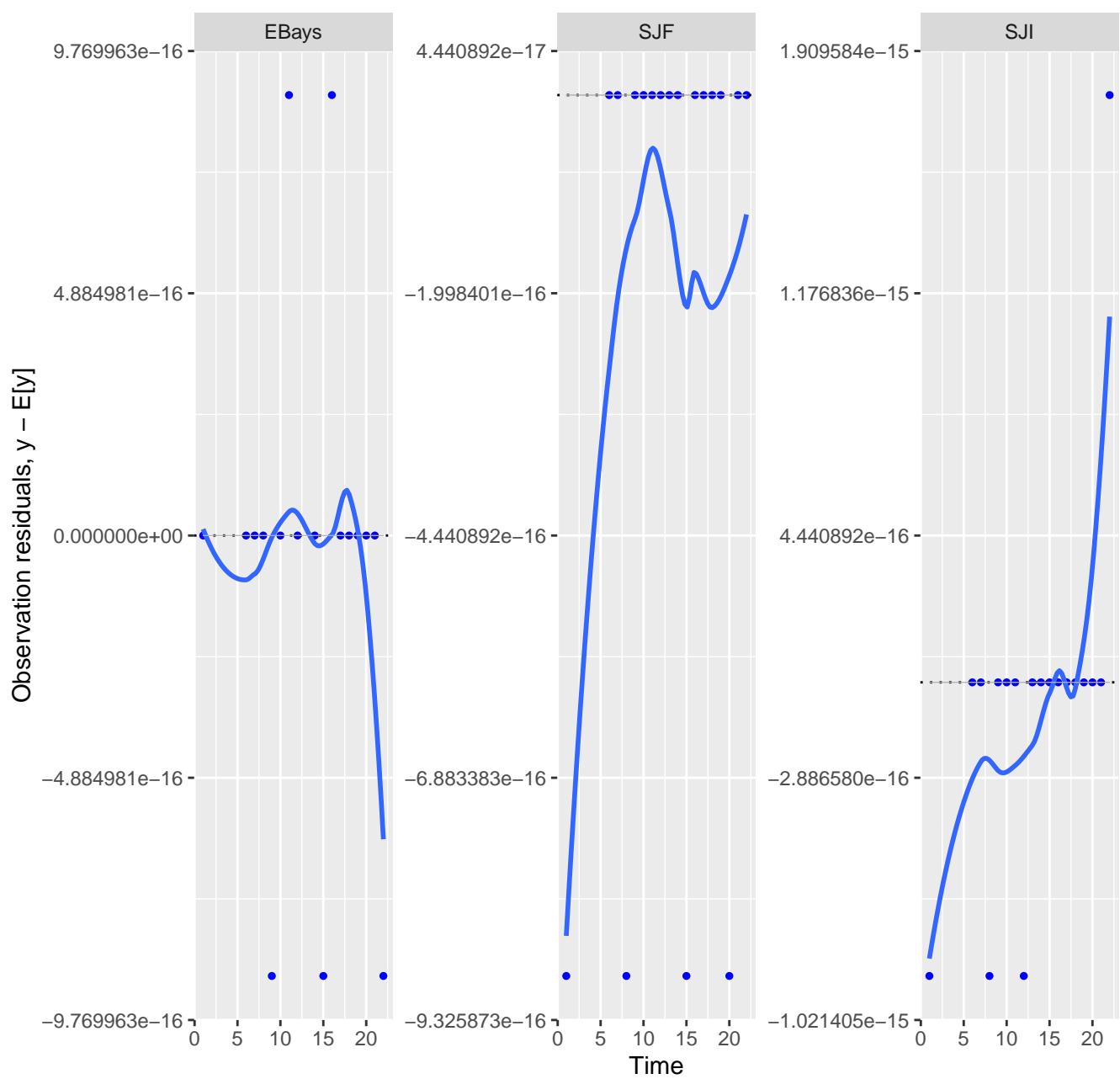
Model fitted Y + CI



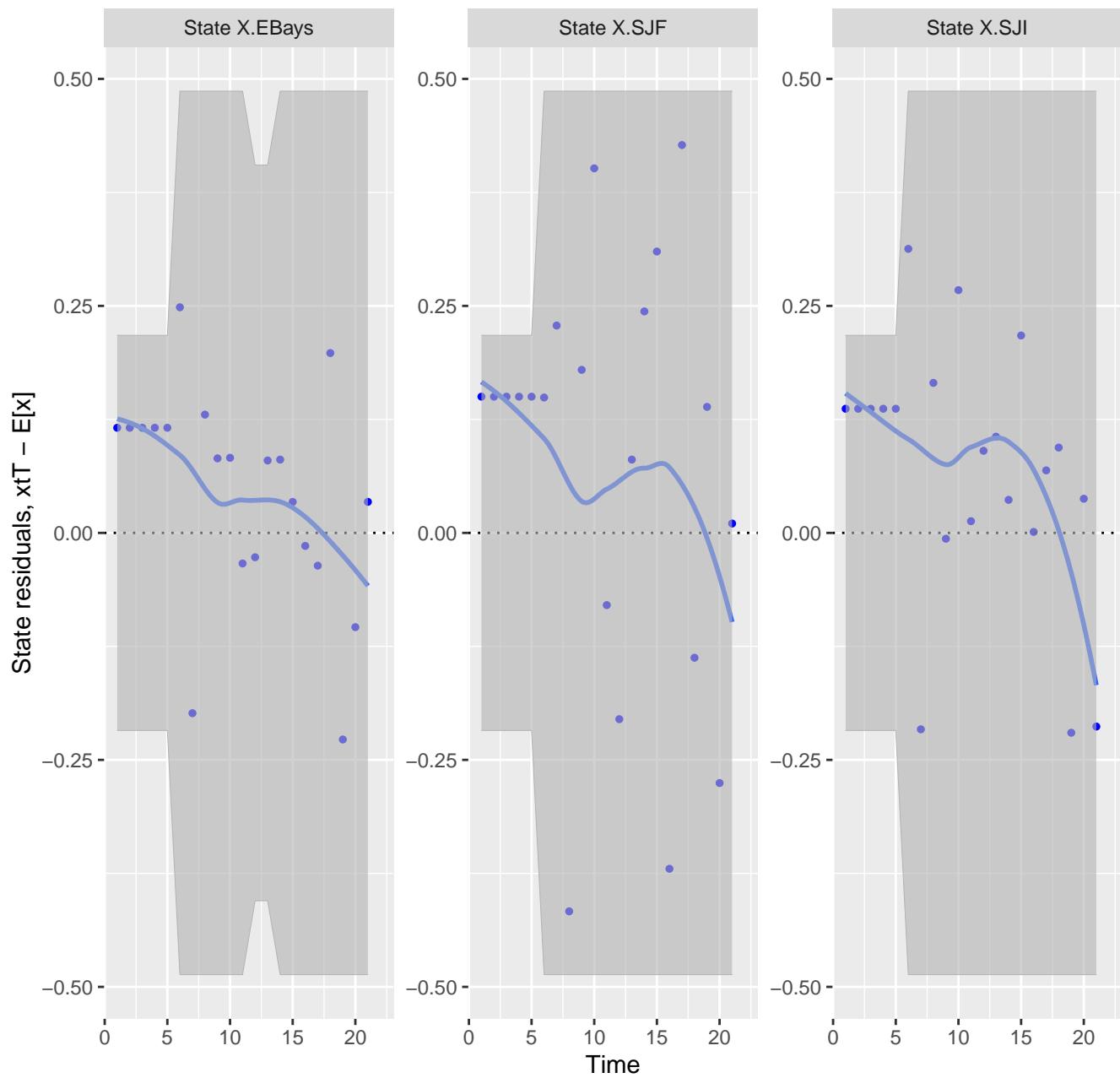
States



Model residuals

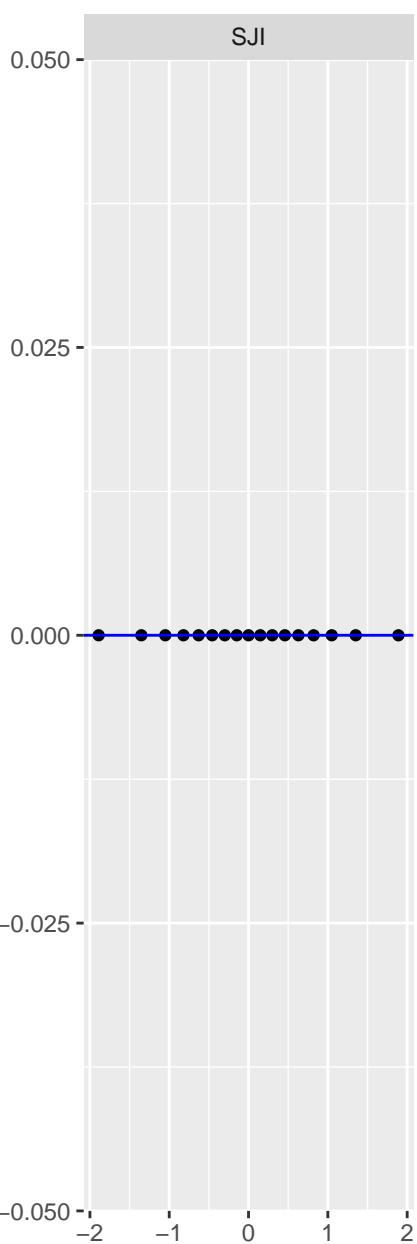
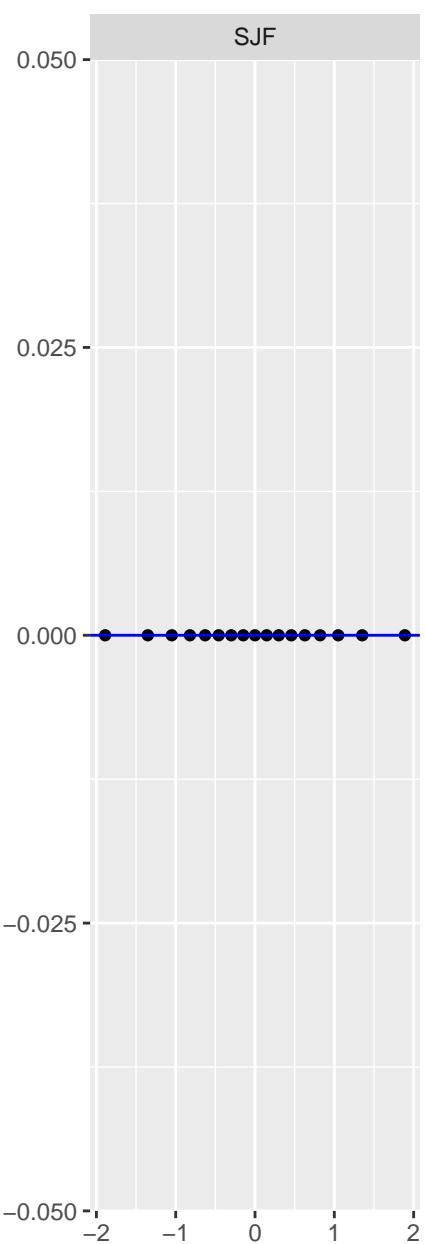
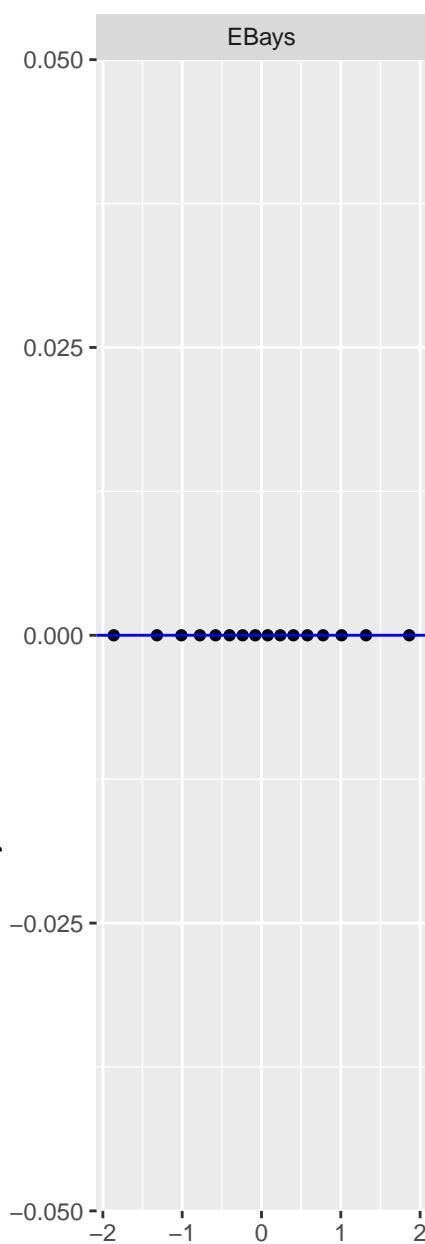


State residuals



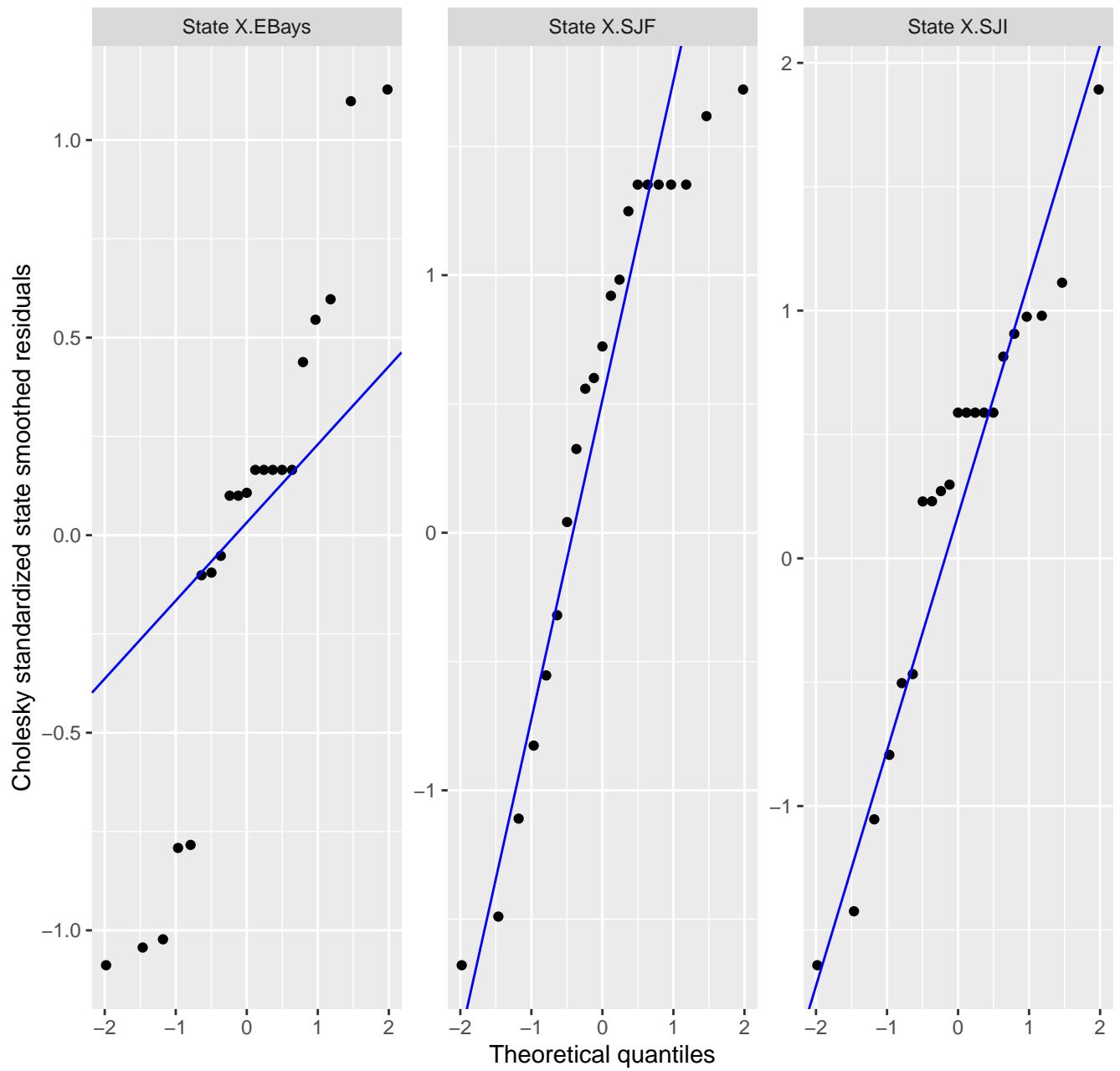
Model residuals normality test

Cholesky standardized model smoothed residuals

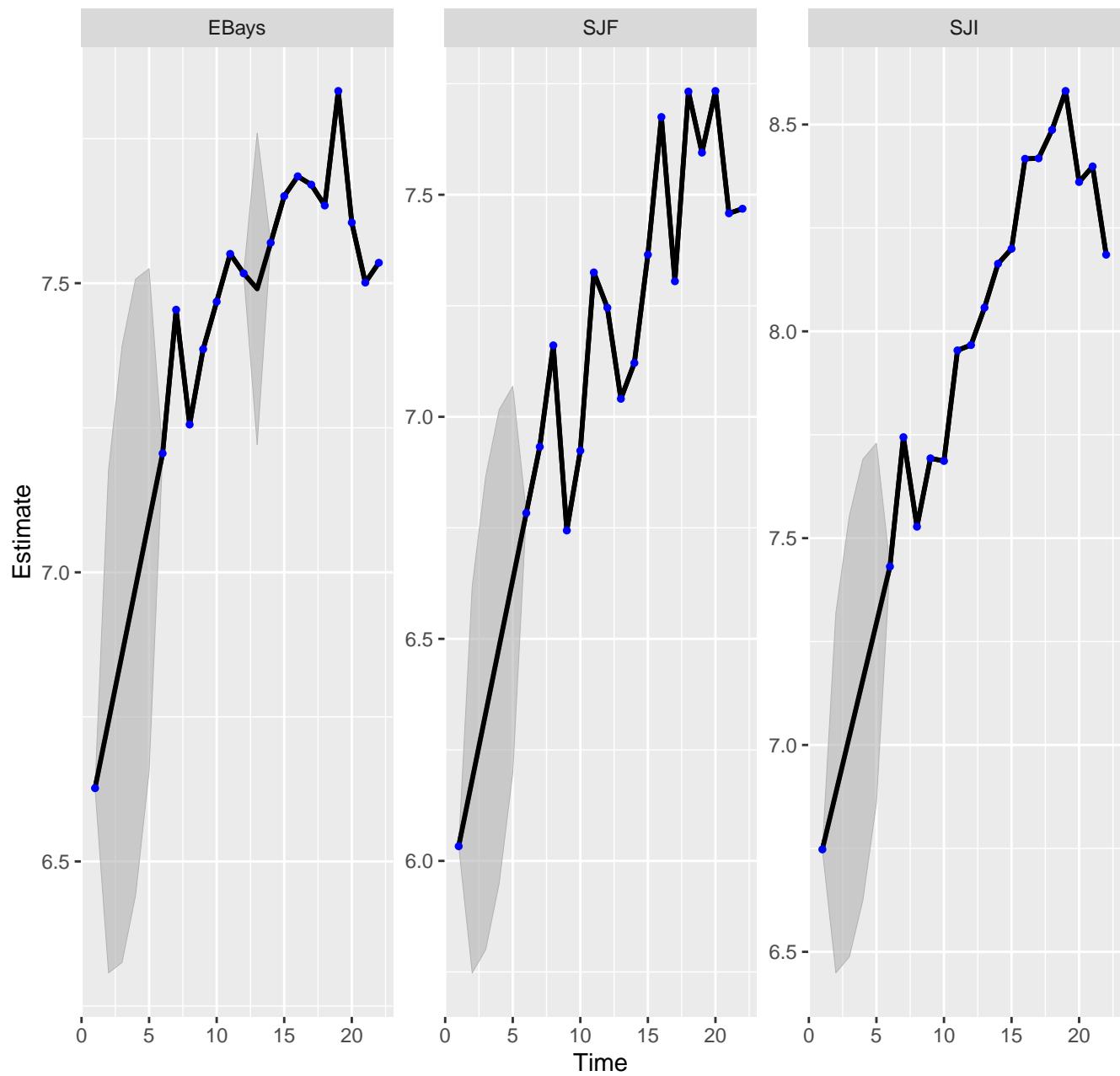


Theoretical quantiles

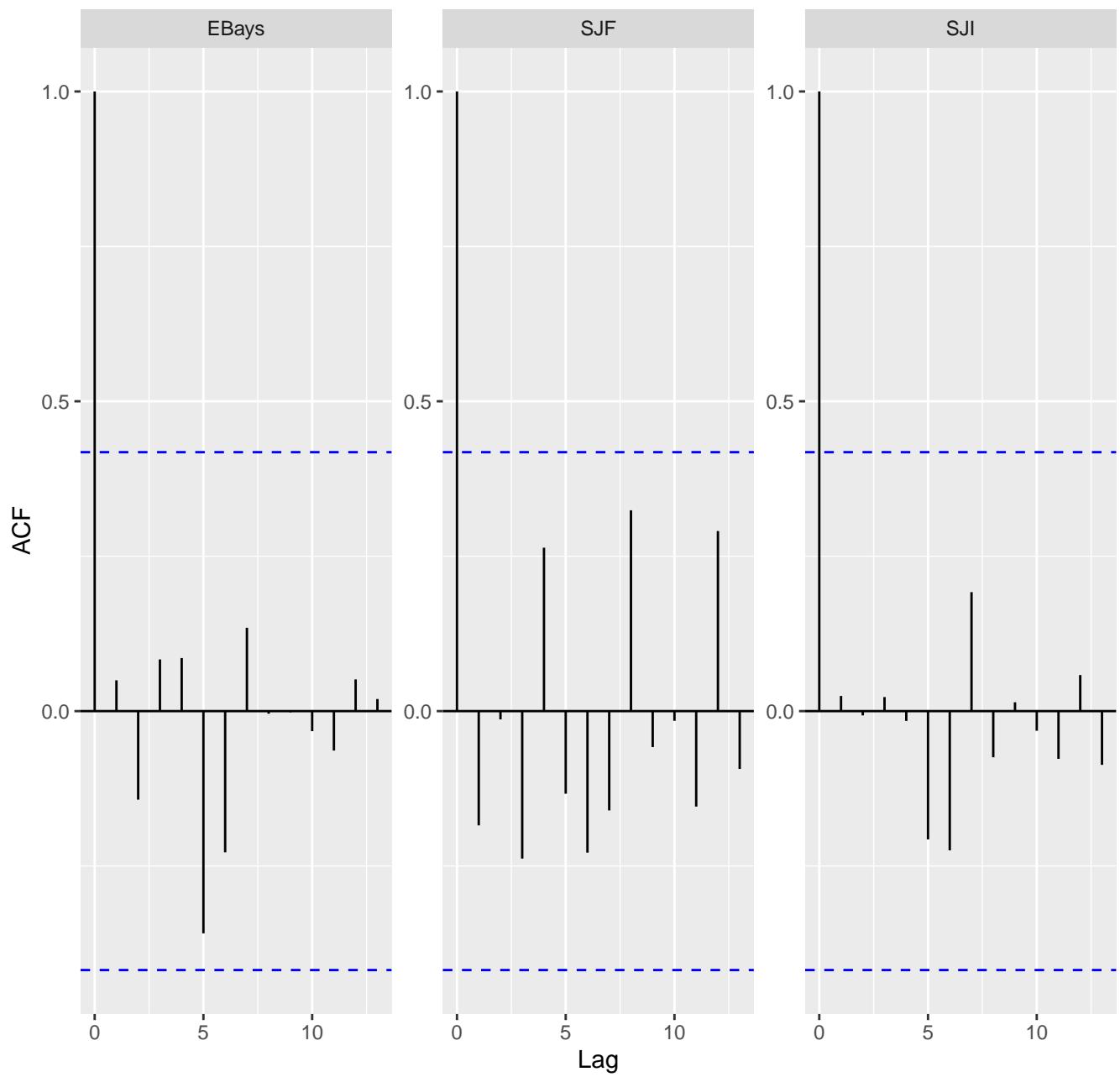
State residuals normality test

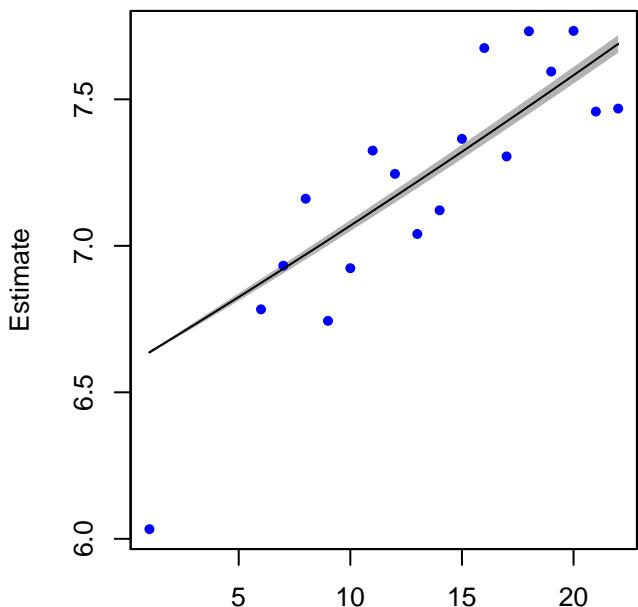
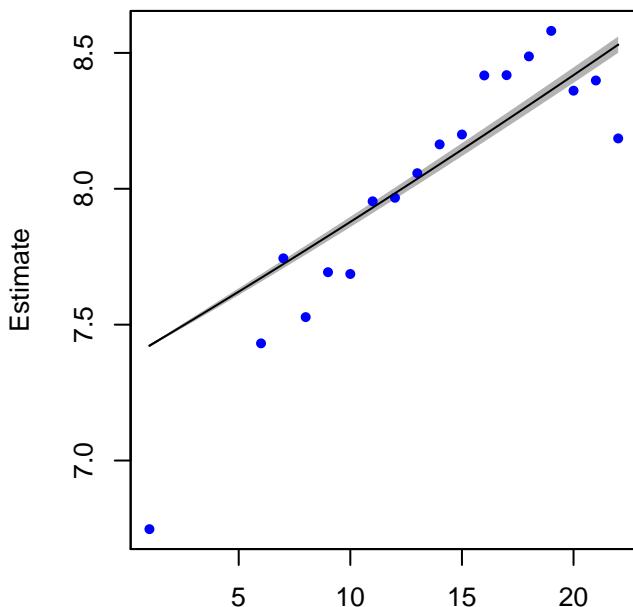
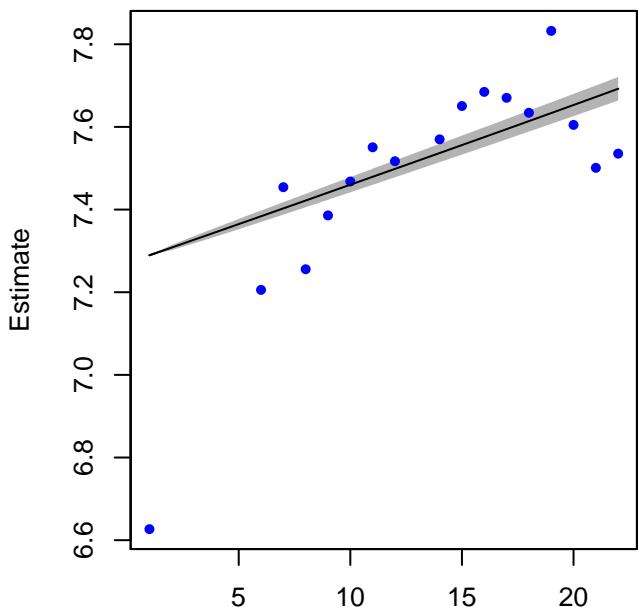


Expected value of Y conditioned on data

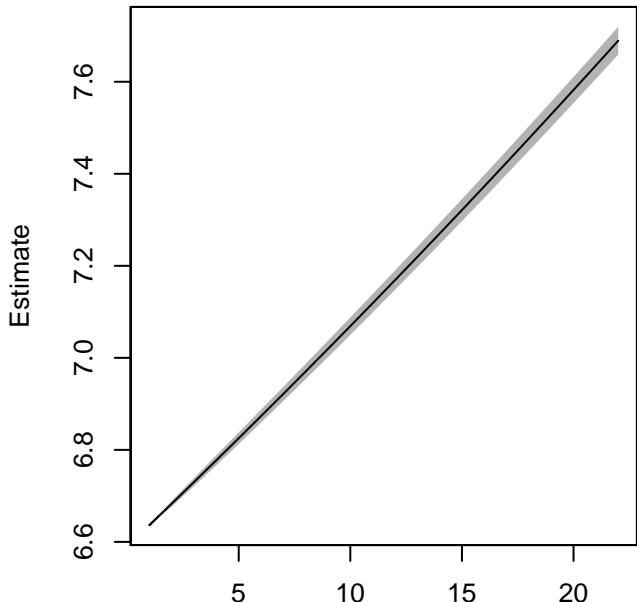


Model innovations residuals ACF

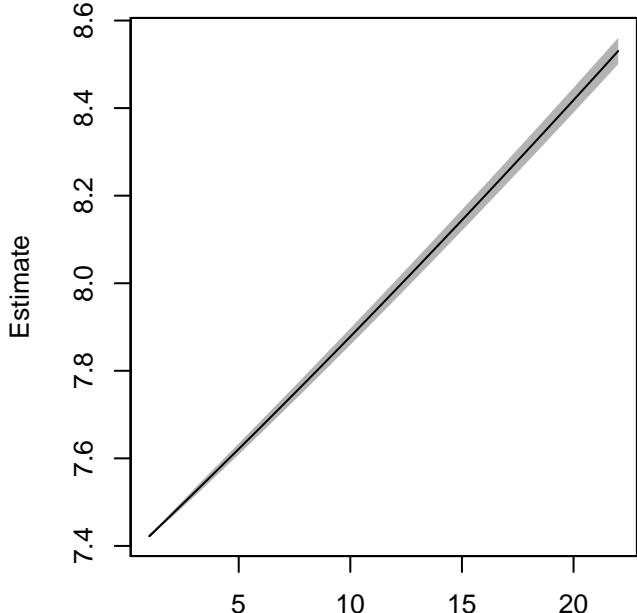


SJF + CI**SJI + CI****EBays + CI**

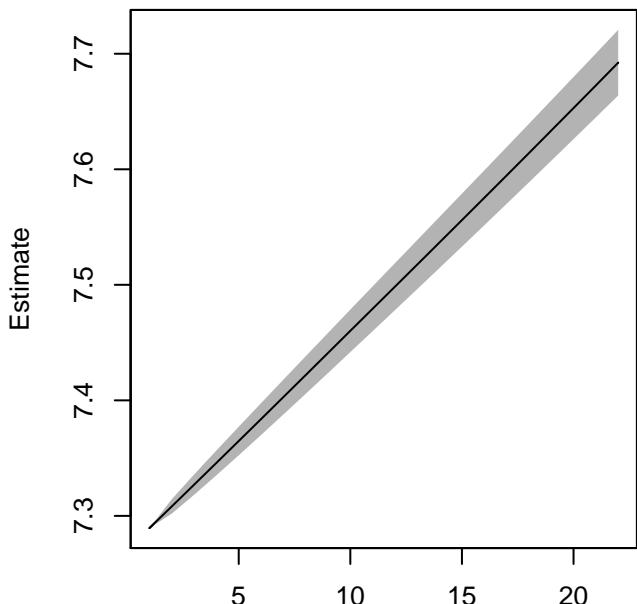
State X.SJF

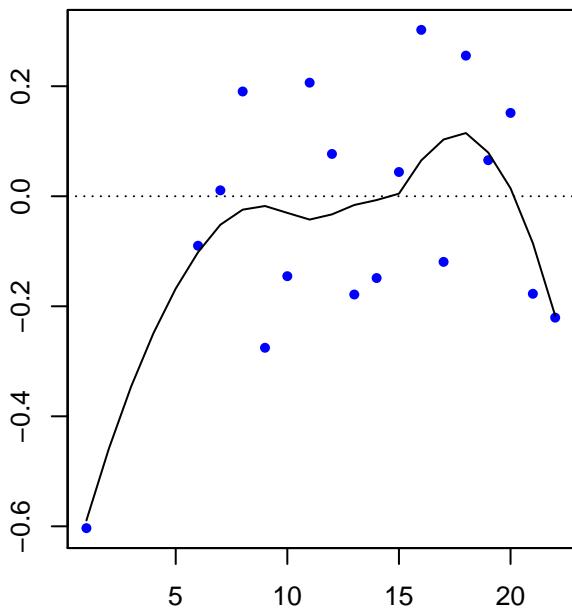
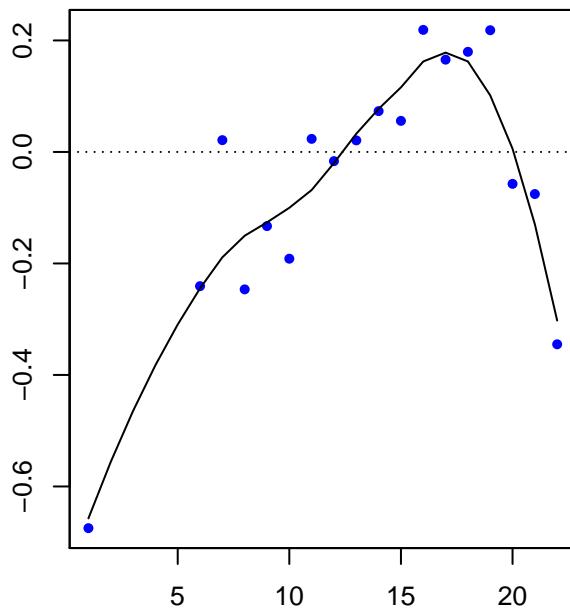
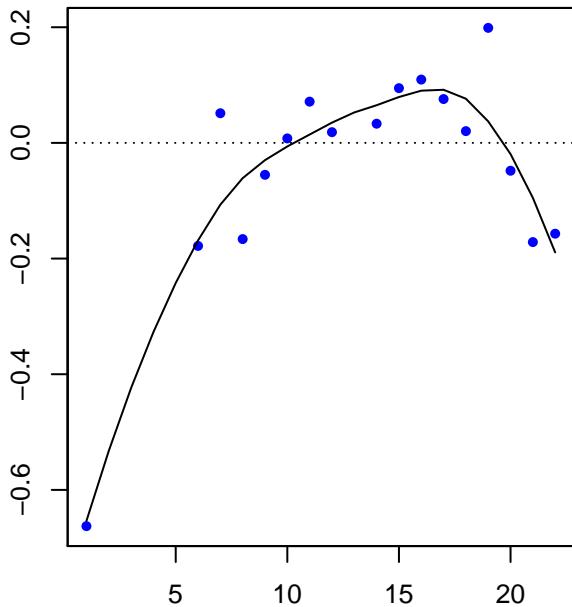


State X.SJI



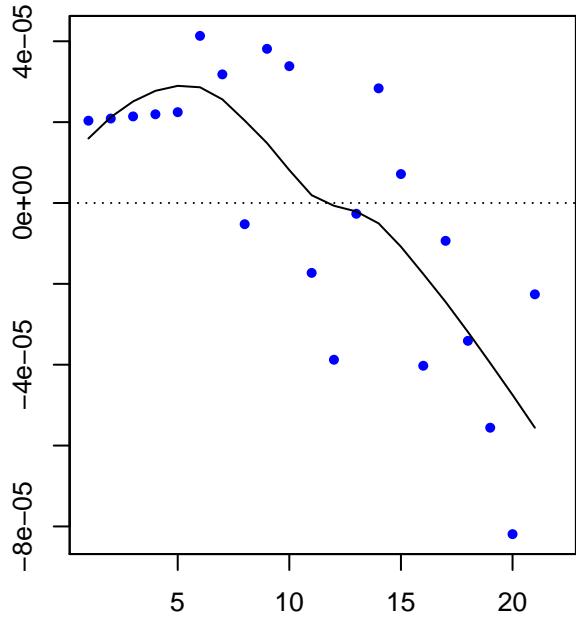
State X.EBays



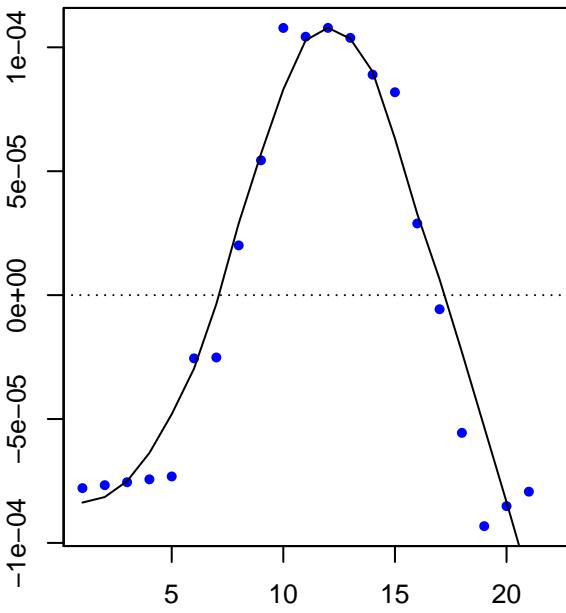
SJFObservation residuals, $y - E[y]$ **SJI****EBays**

State residuals, $x_{tT} - E[x]$

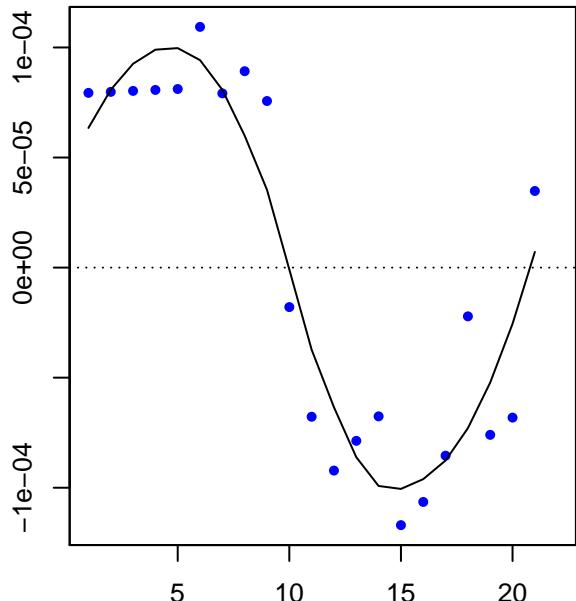
State X.SJF

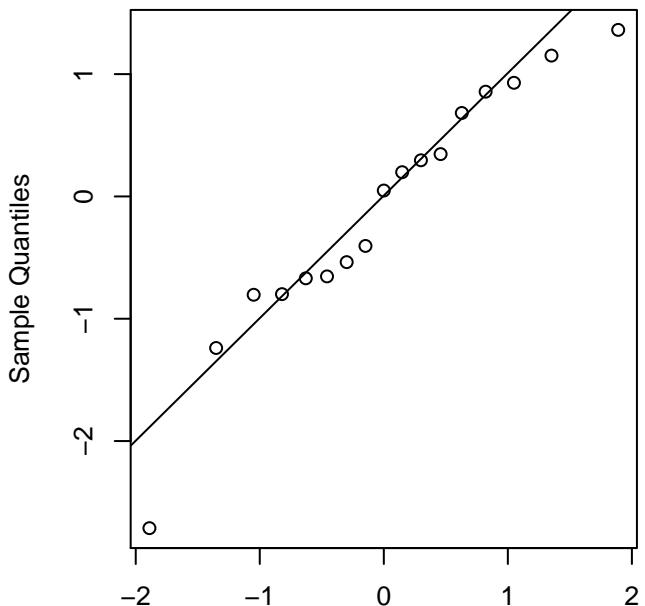
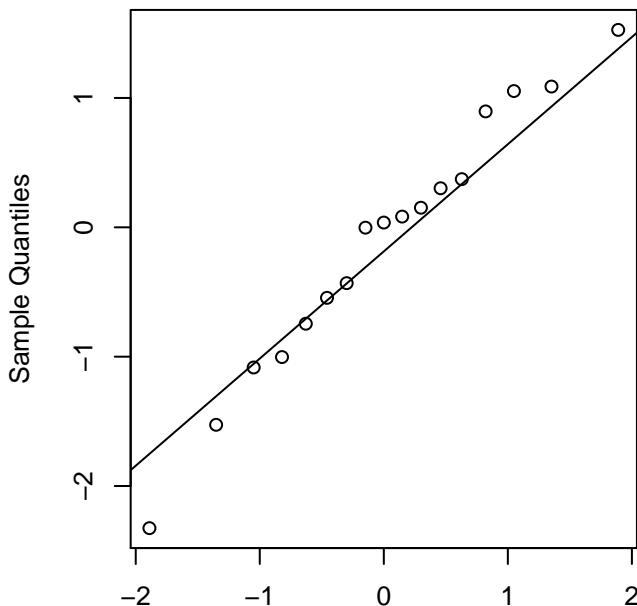
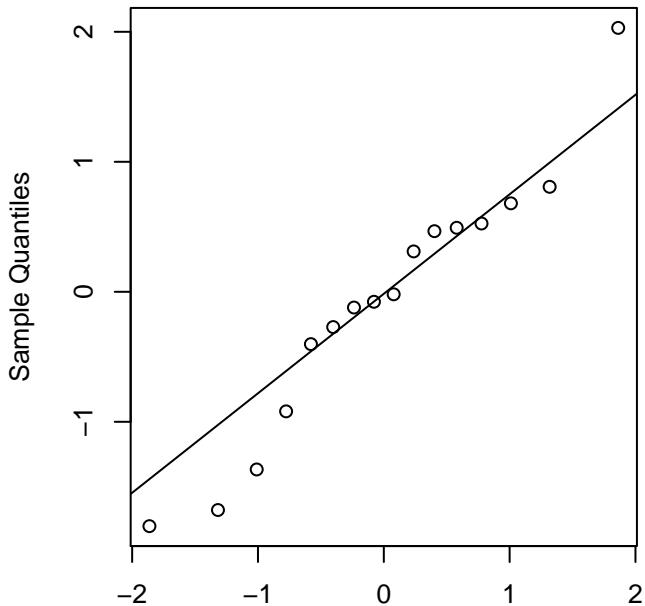


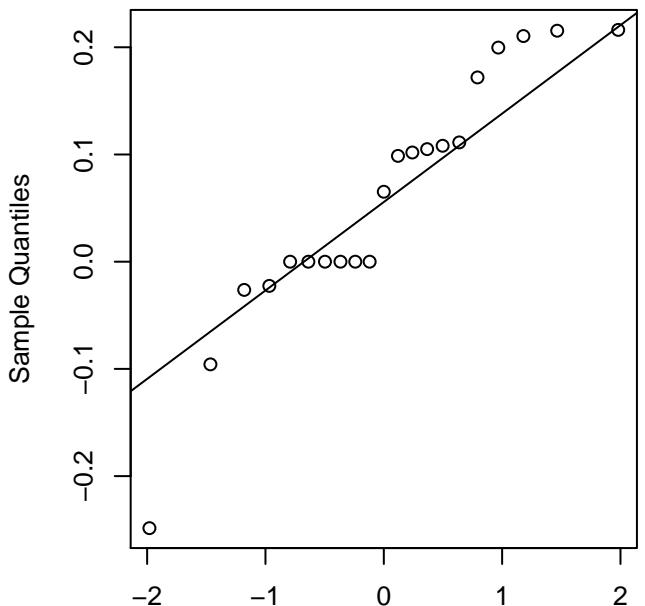
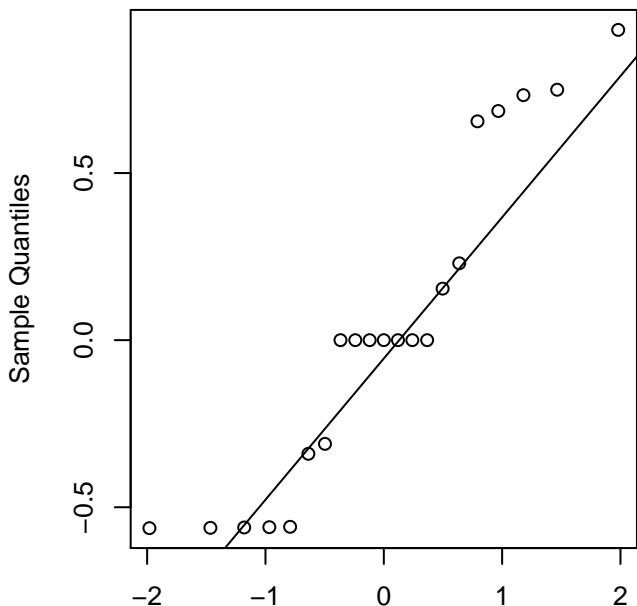
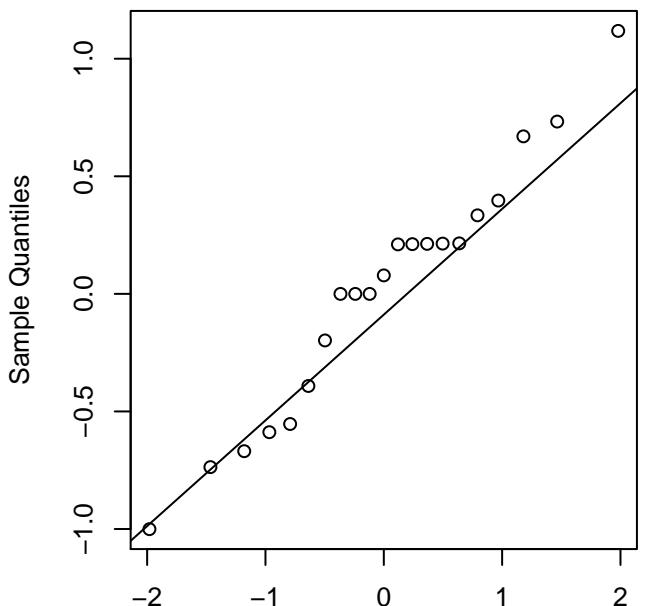
State X.SJI

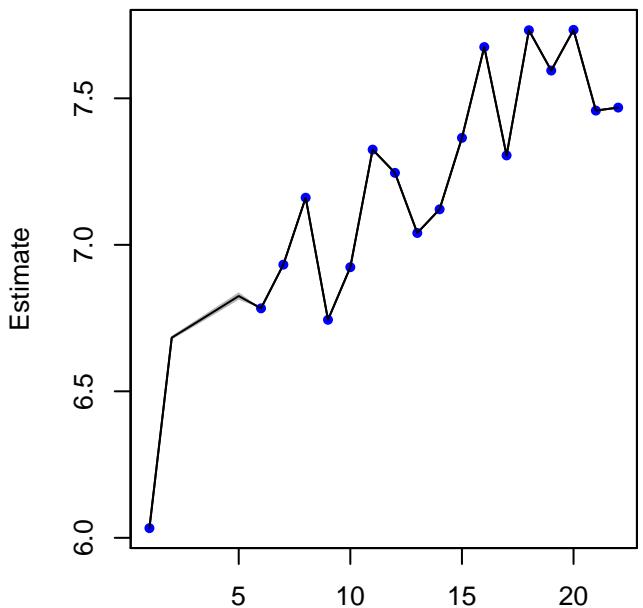
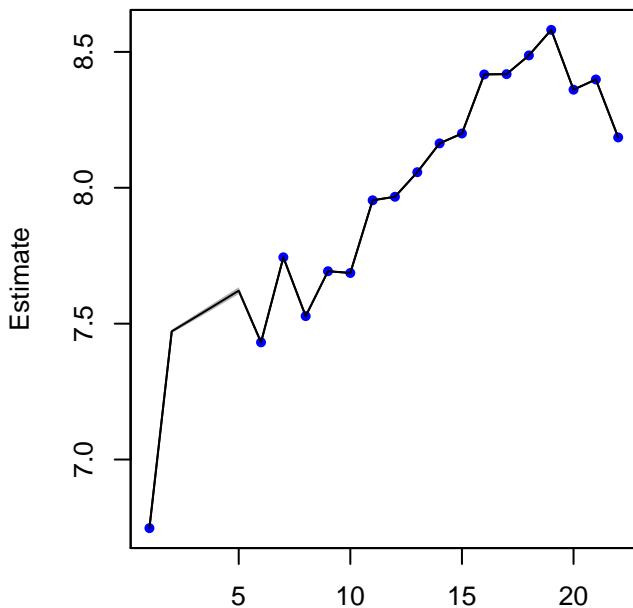
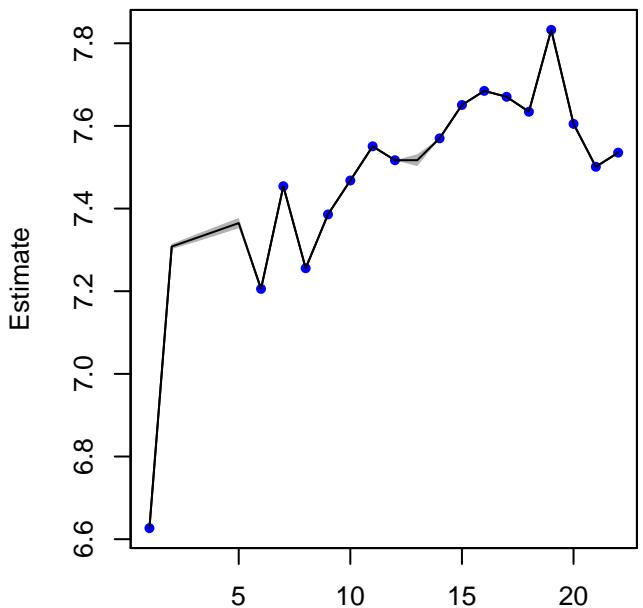


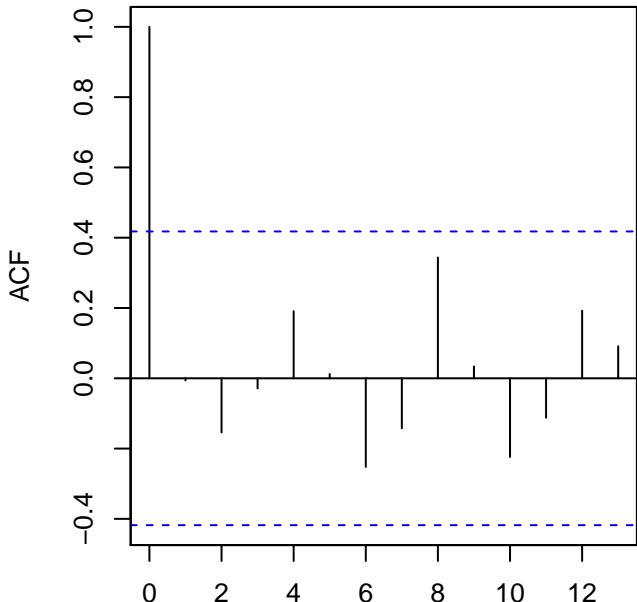
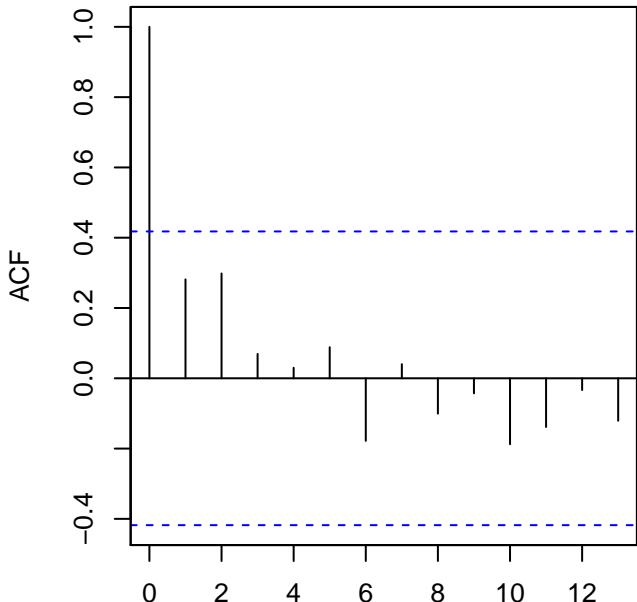
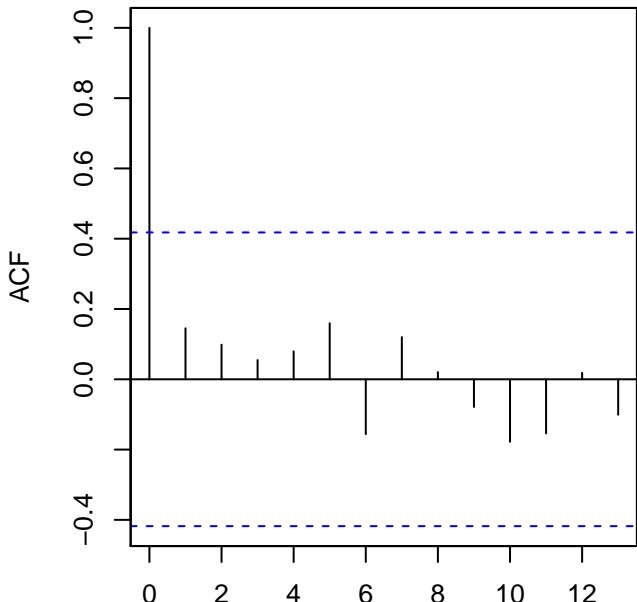
State X.EBays



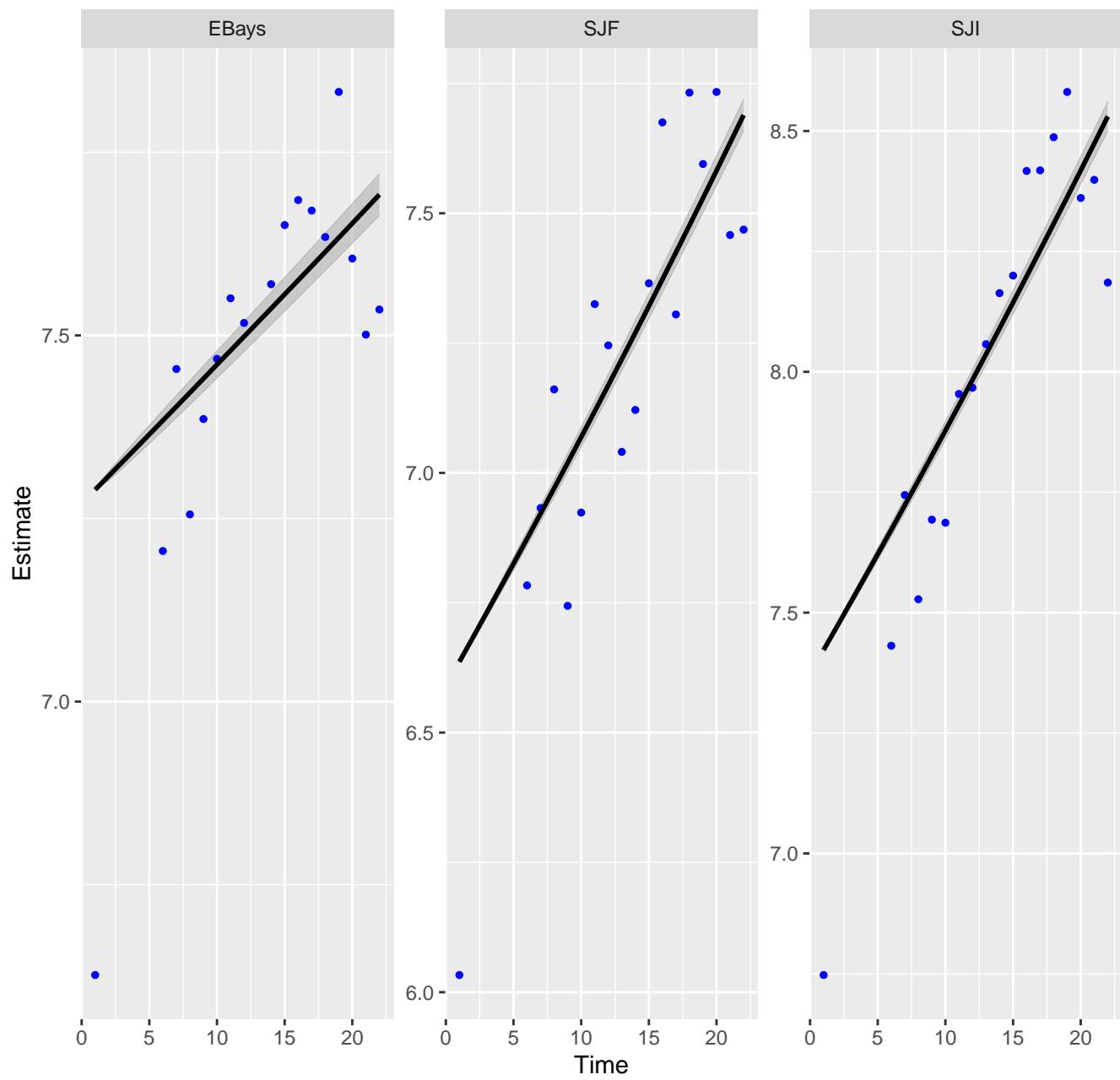
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

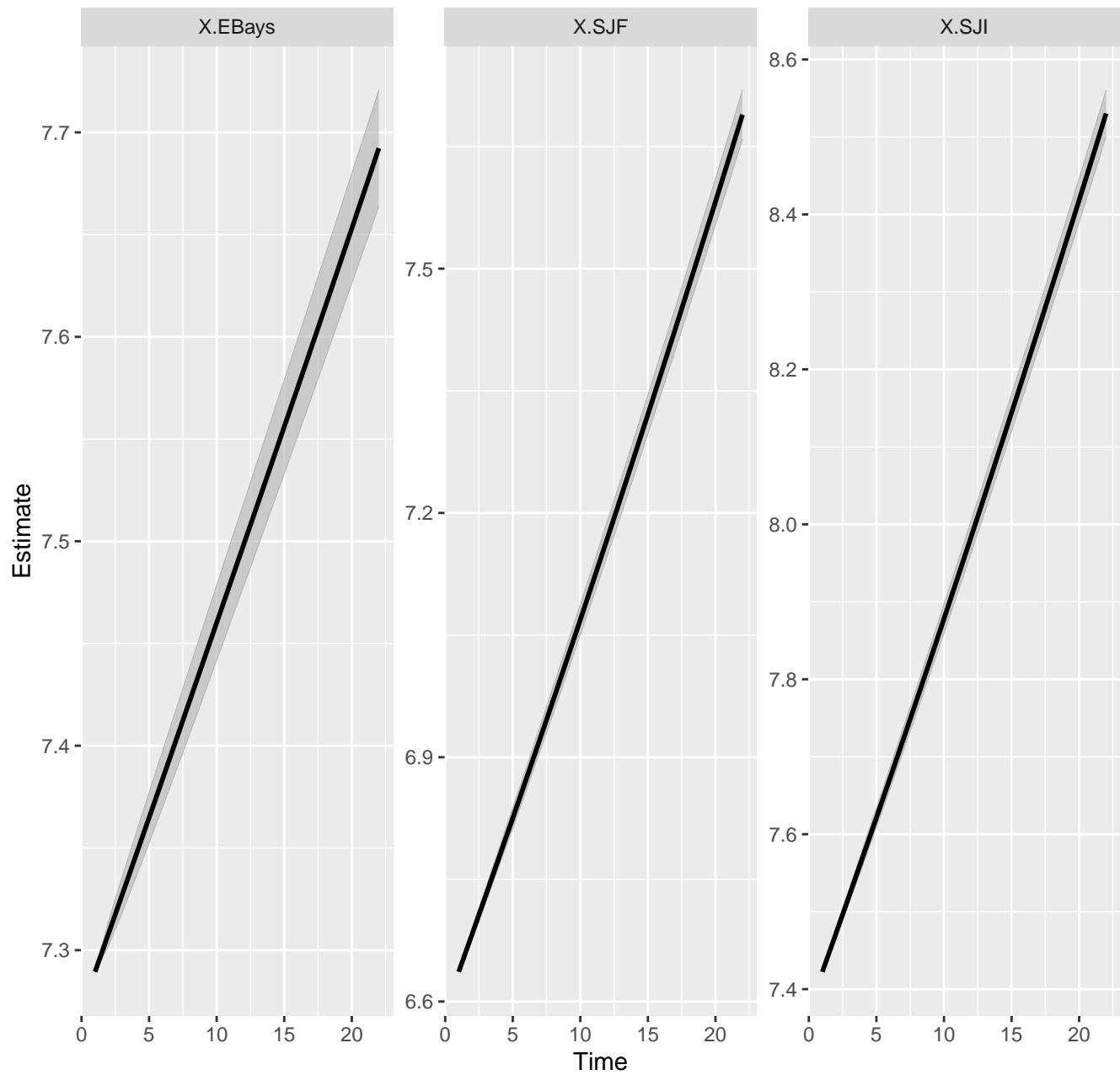
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

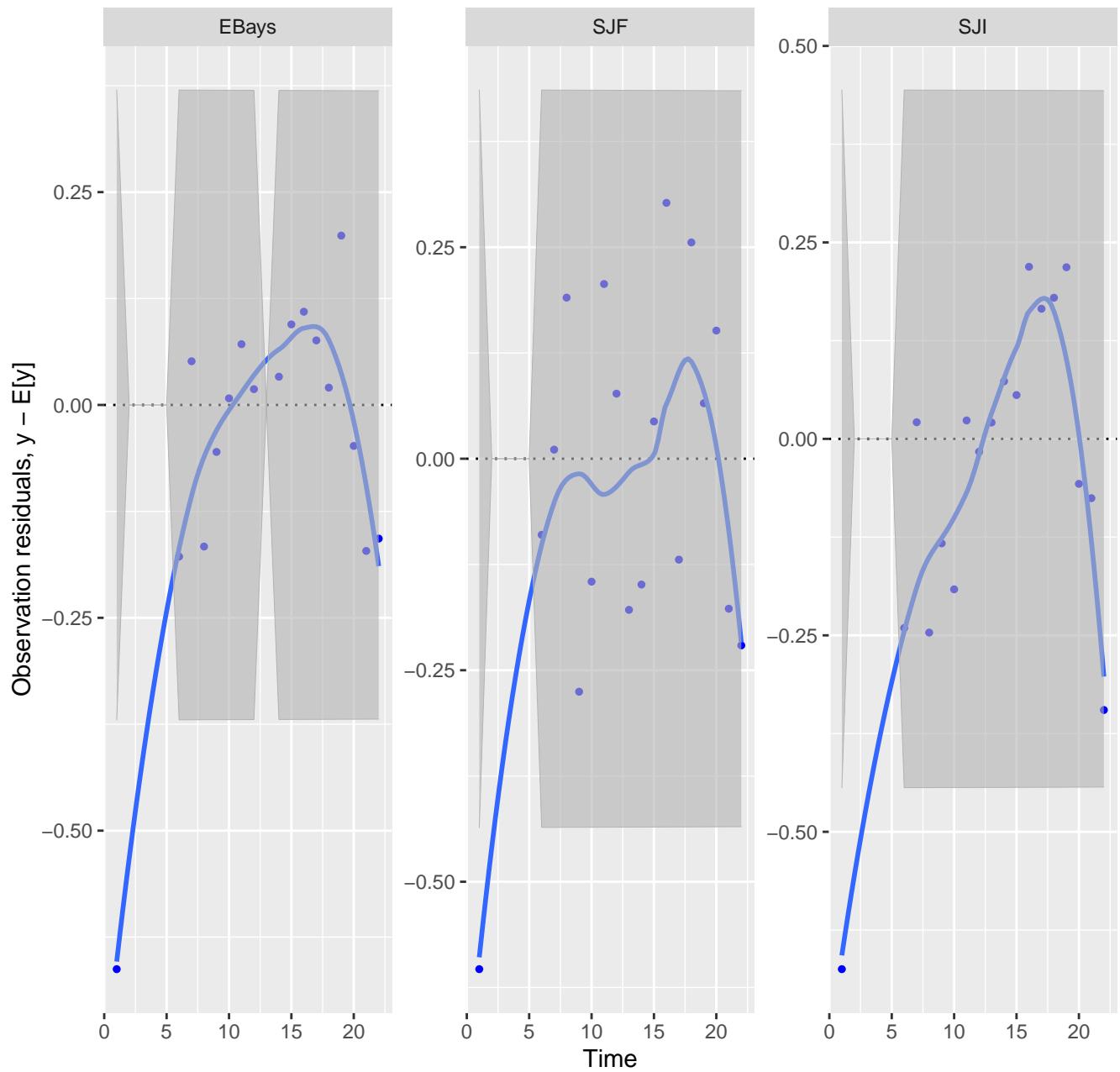
Model fitted Y + CI



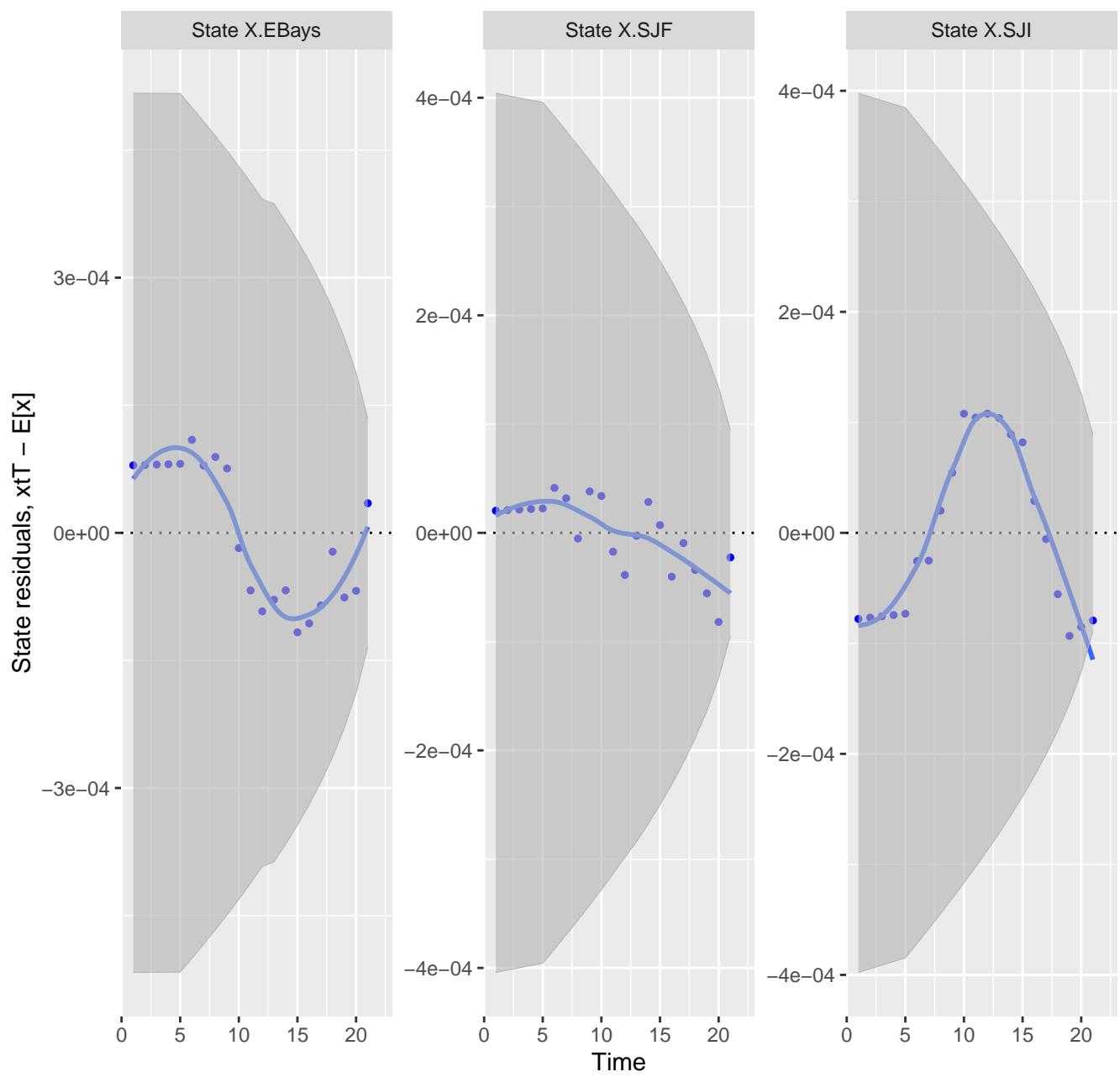
States



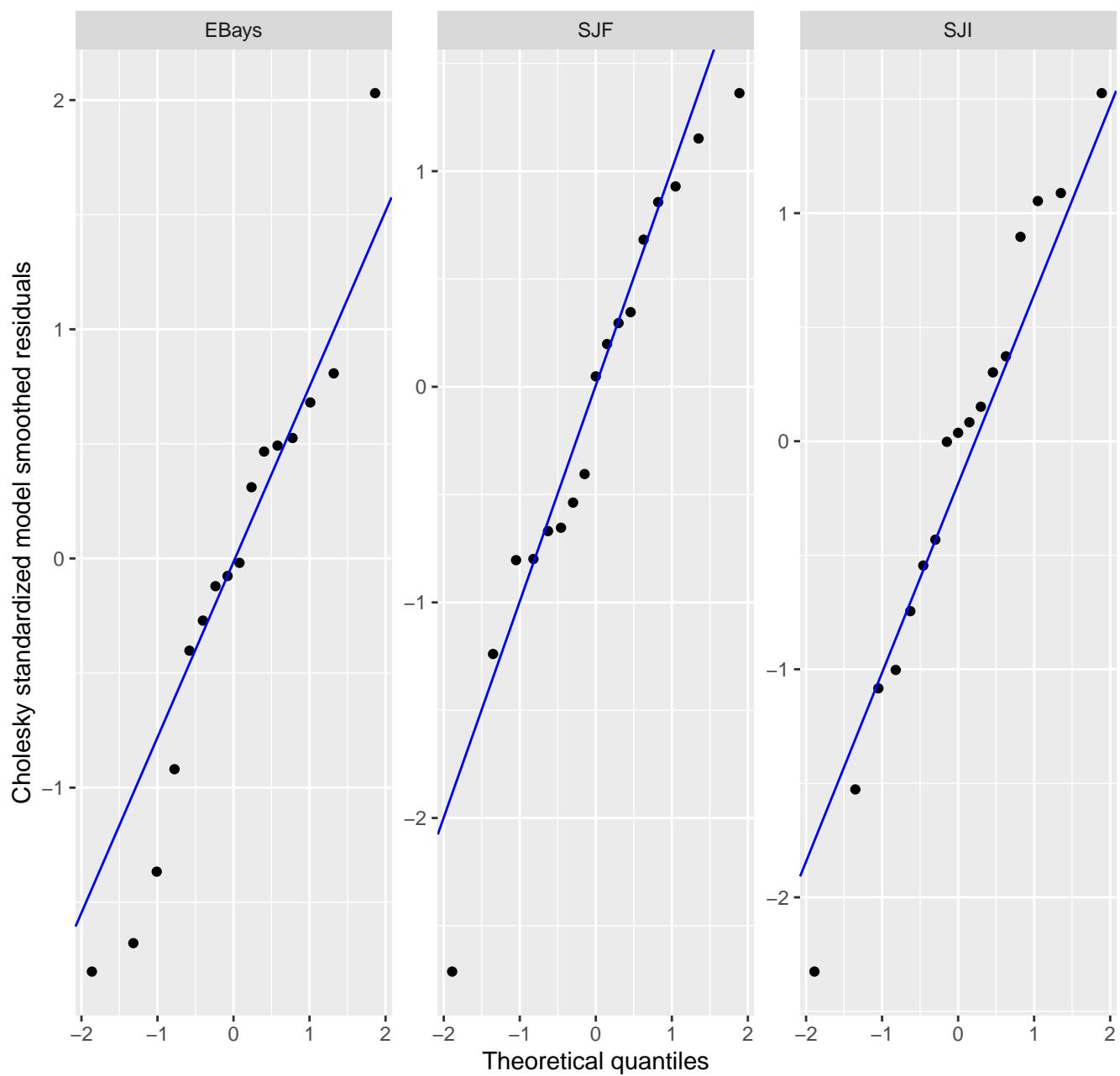
Model residuals



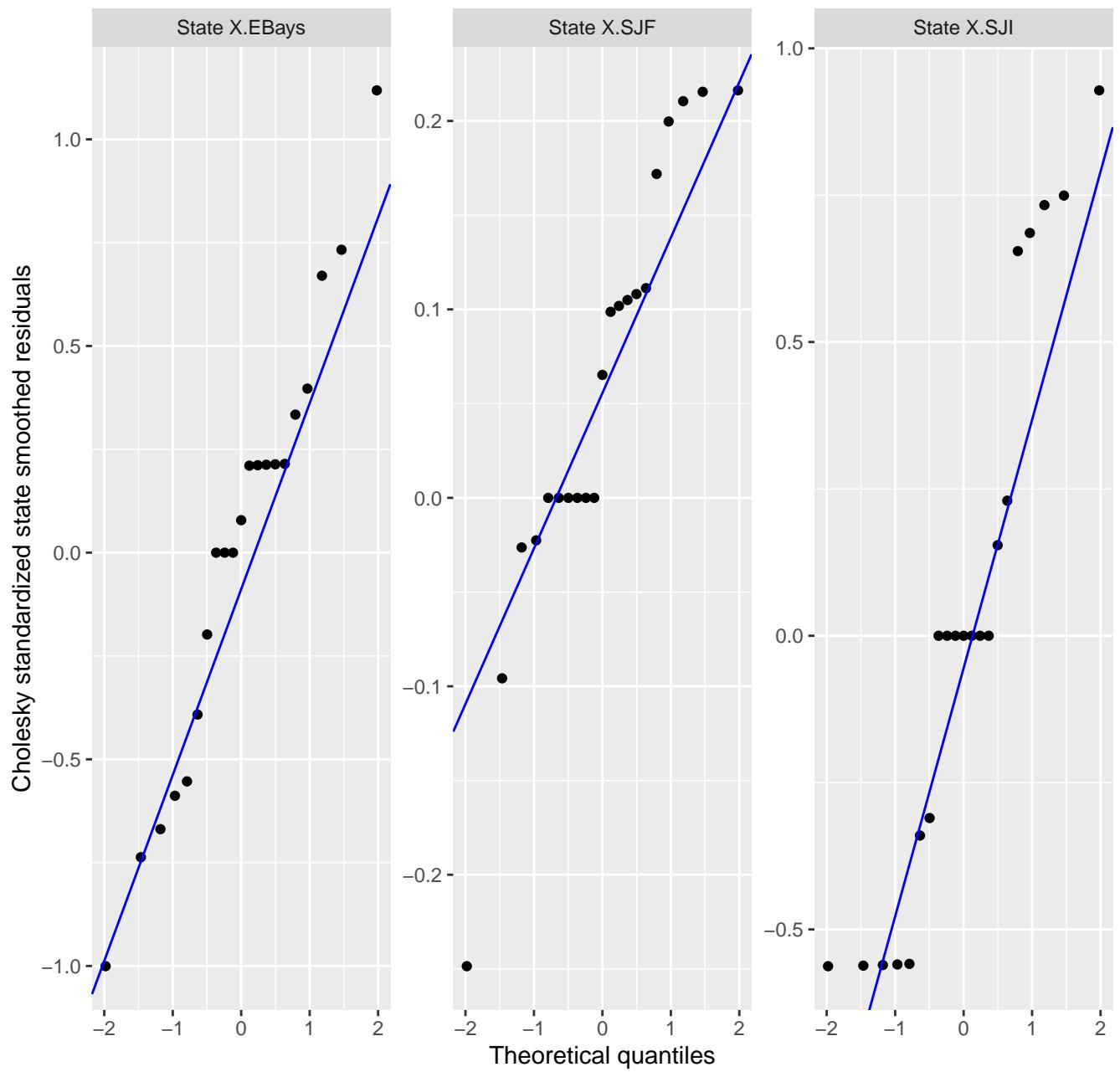
State residuals



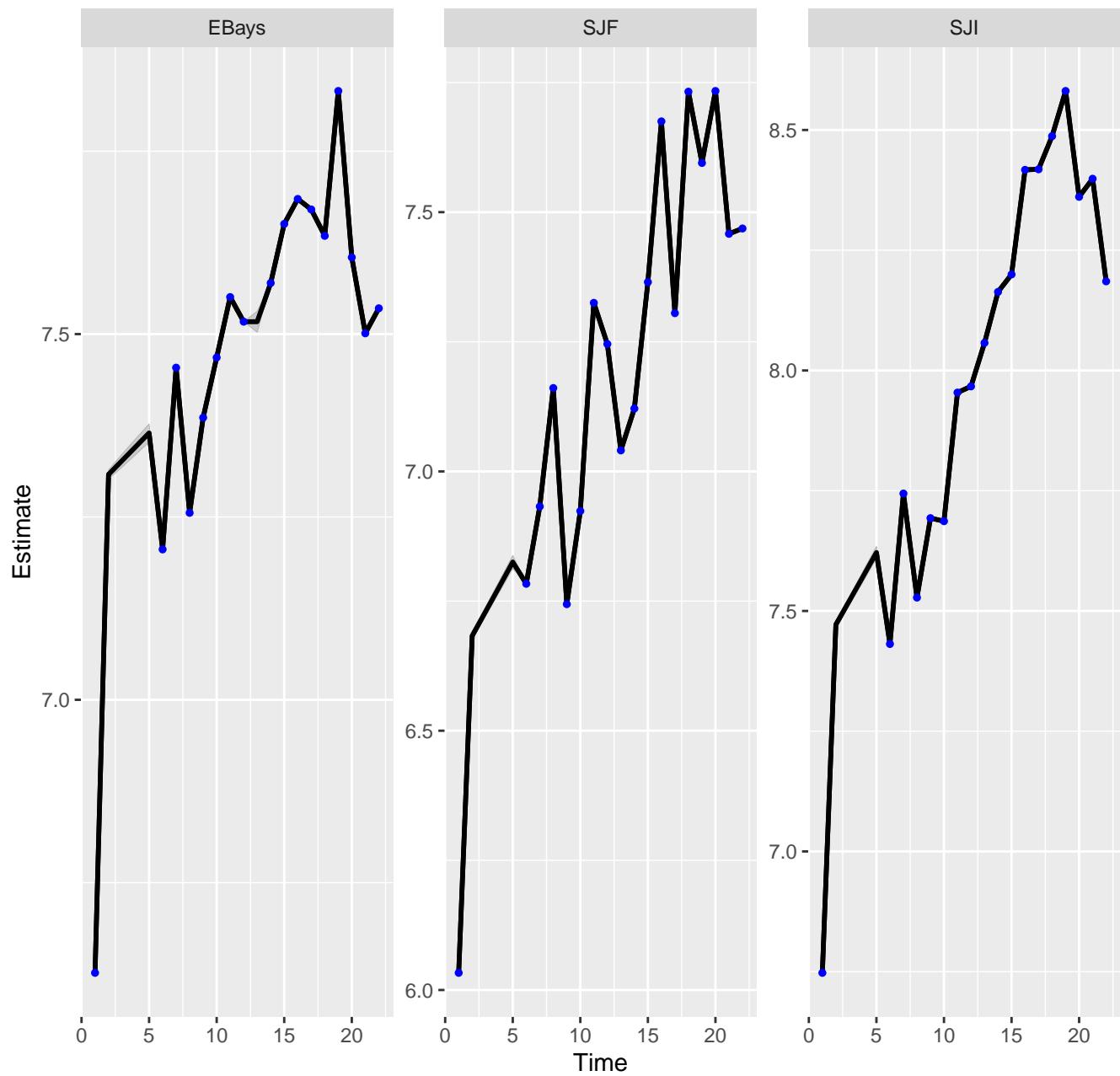
Model residuals normality test



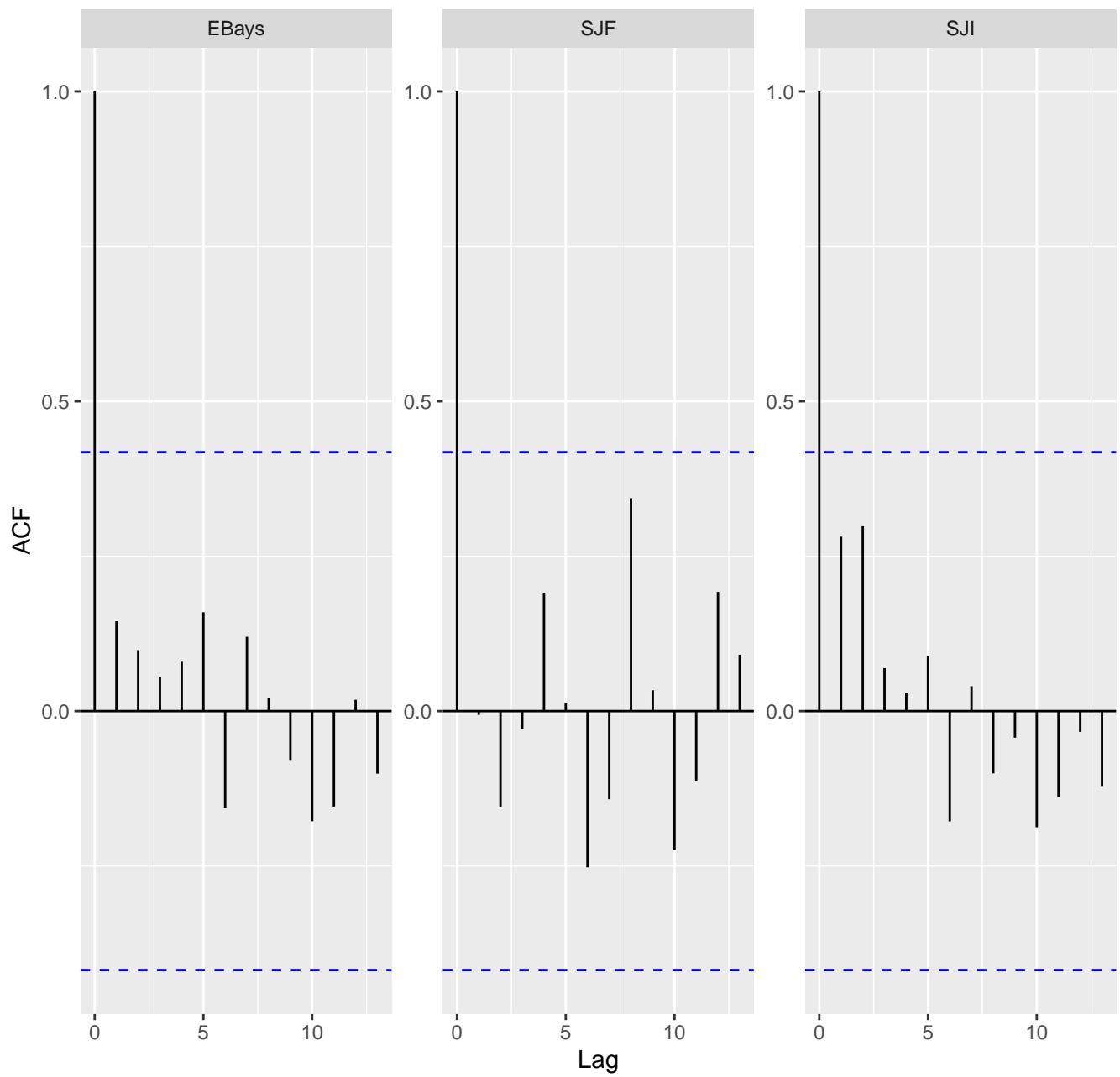
State residuals normality test

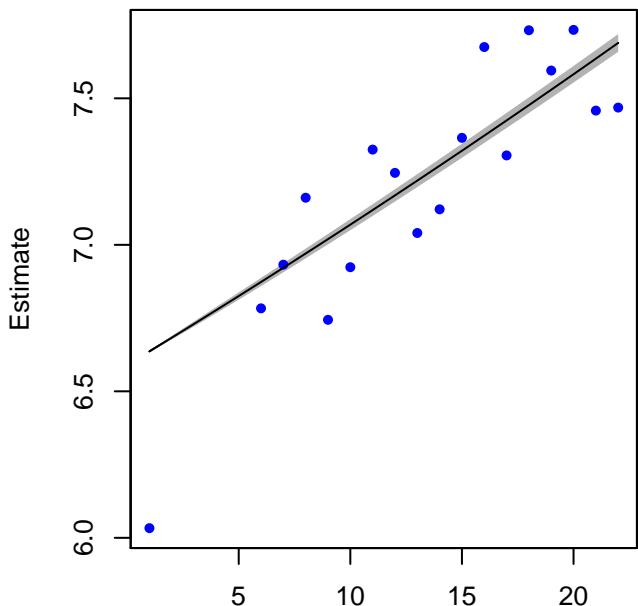
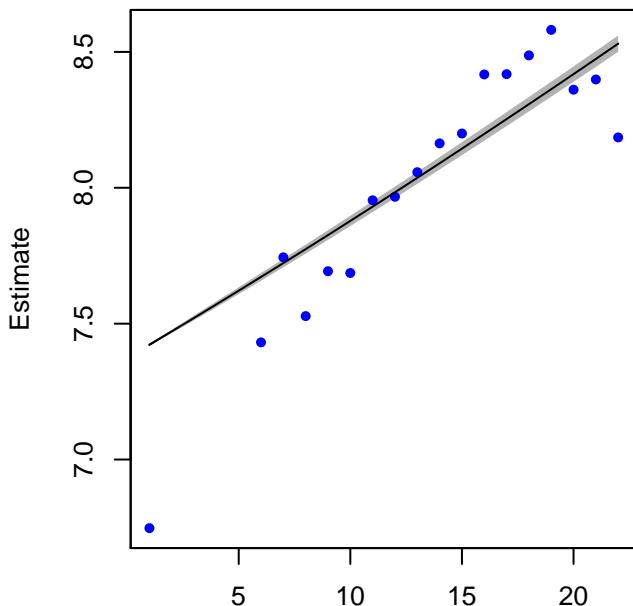
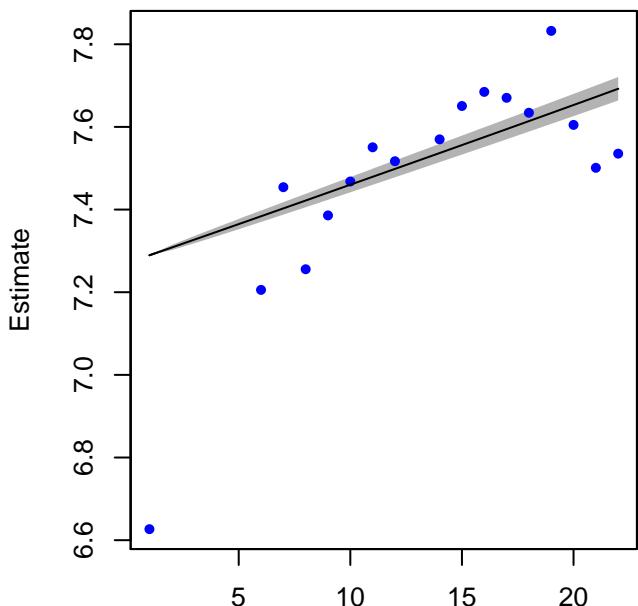


Expected value of Y conditioned on data

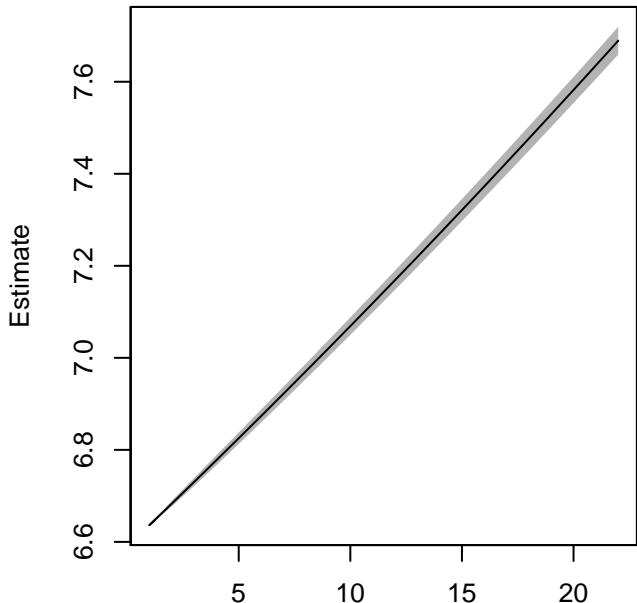


Model innovations residuals ACF

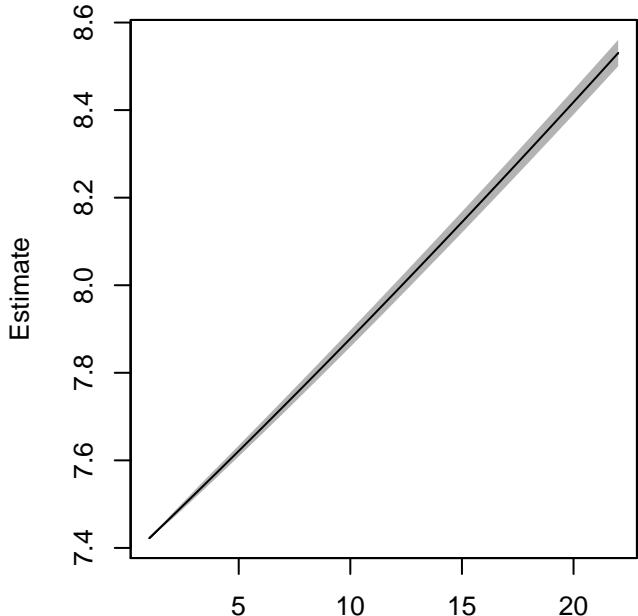


SJF + CI**SJI + CI****EBays + CI**

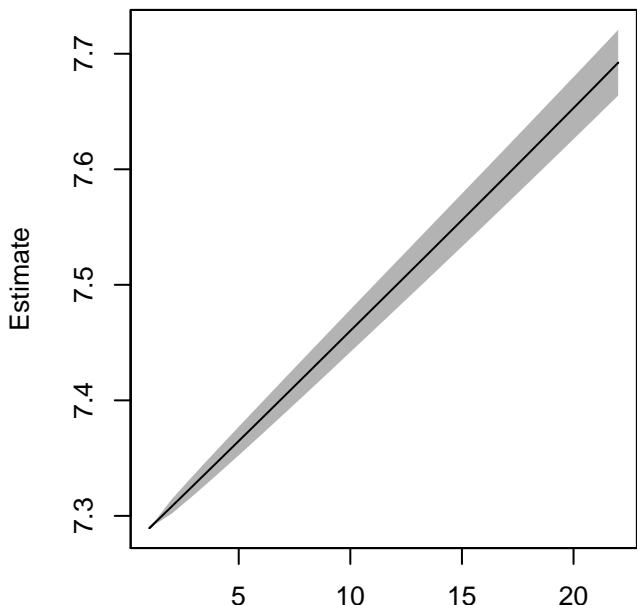
State X.SJF

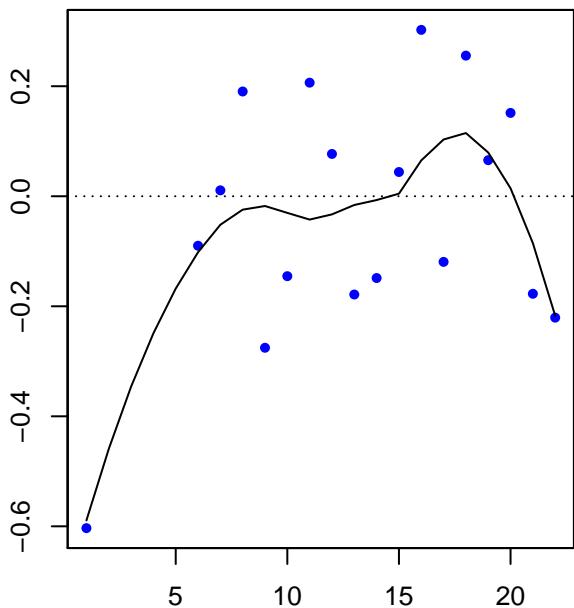
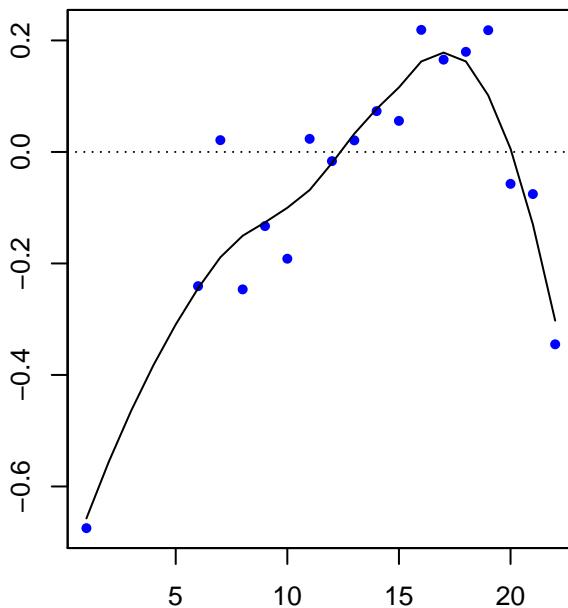
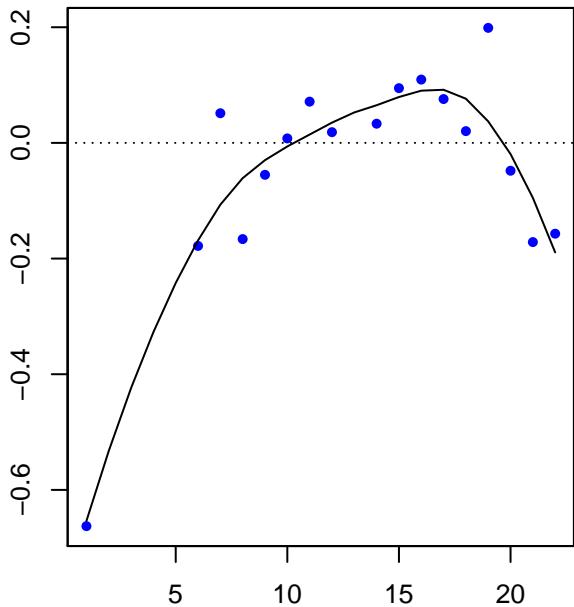


State X.SJI



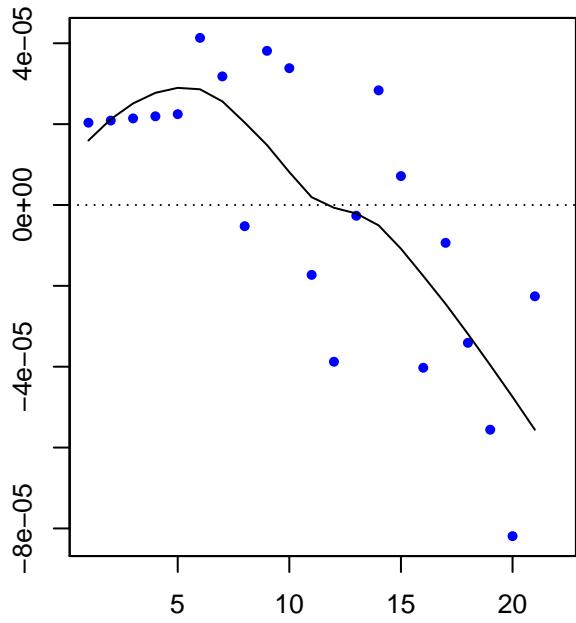
State X.EBays



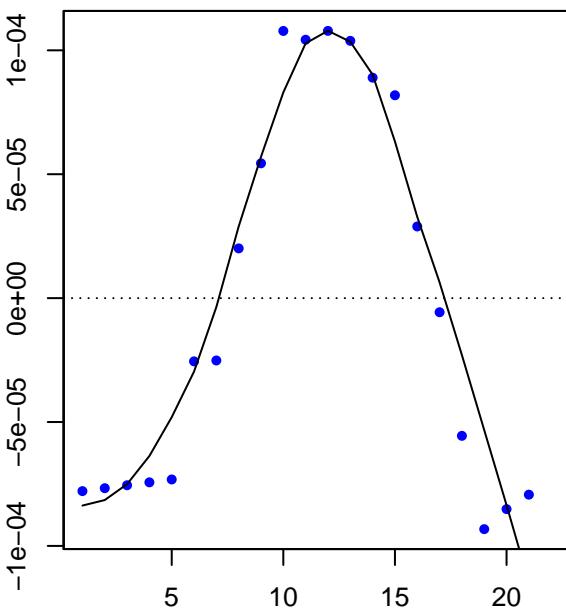
SJFObservation residuals, $y - E[y]$ **SJI****EBays**

State residuals, $x_{tT} - E[x]$

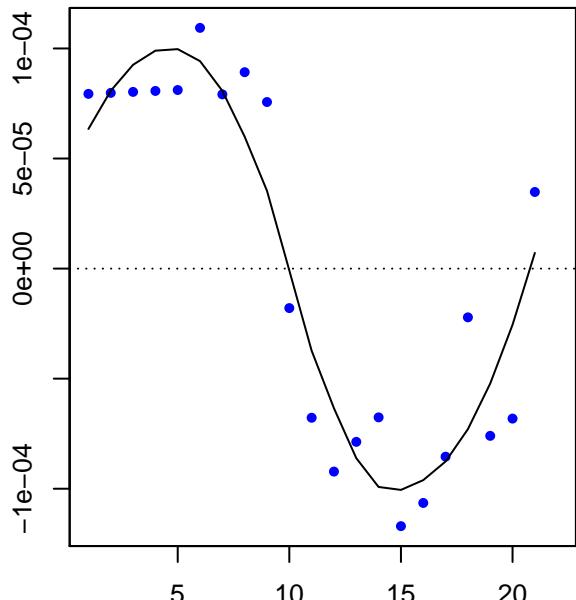
State X.SJF

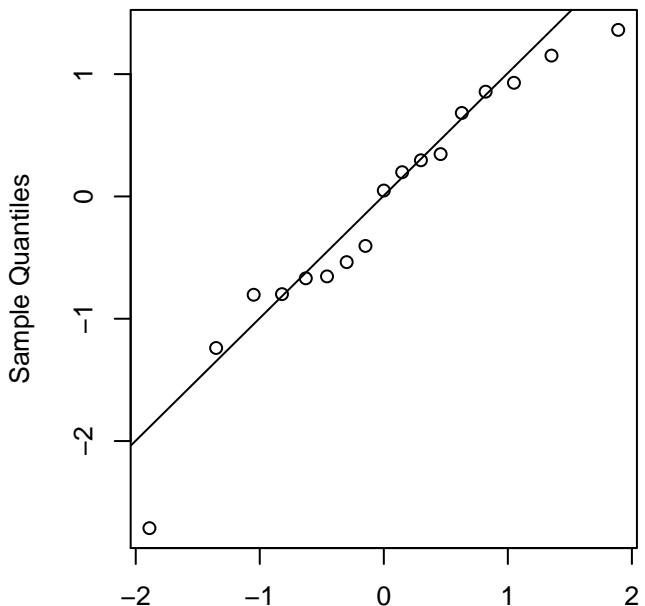
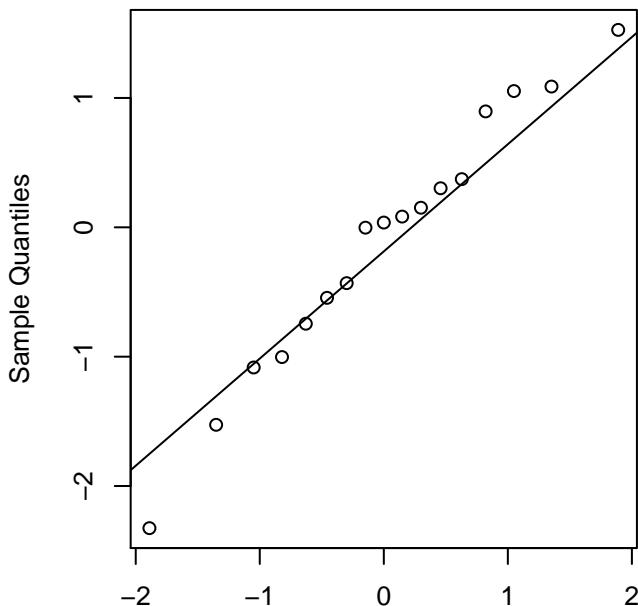
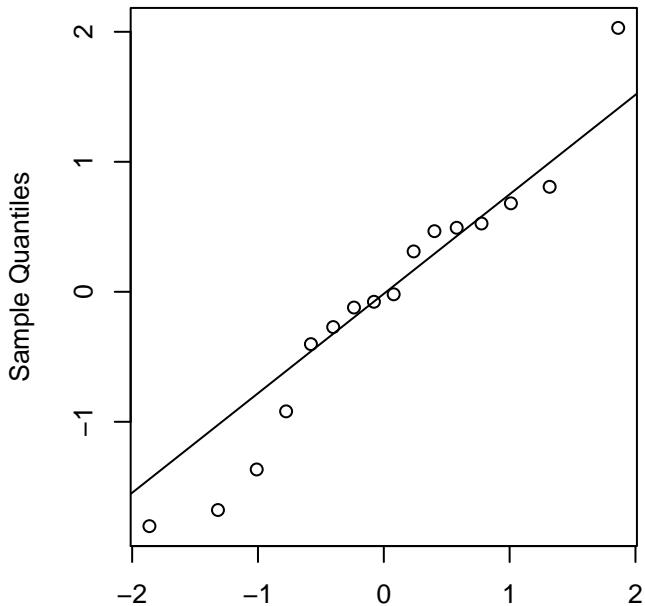


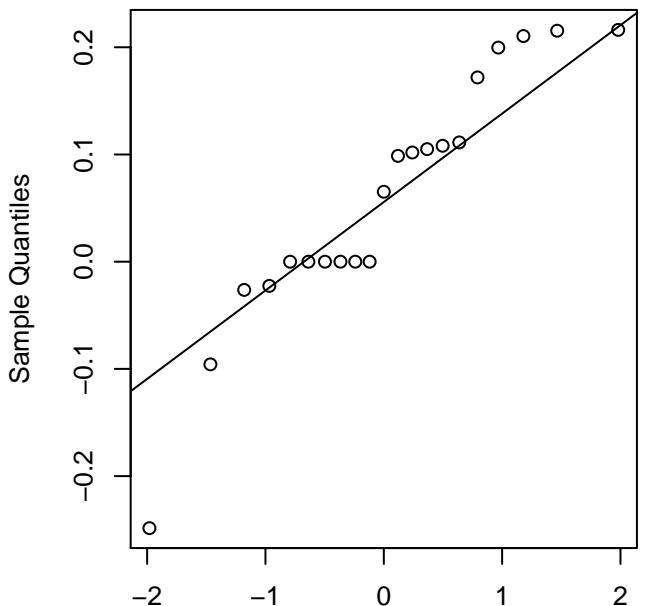
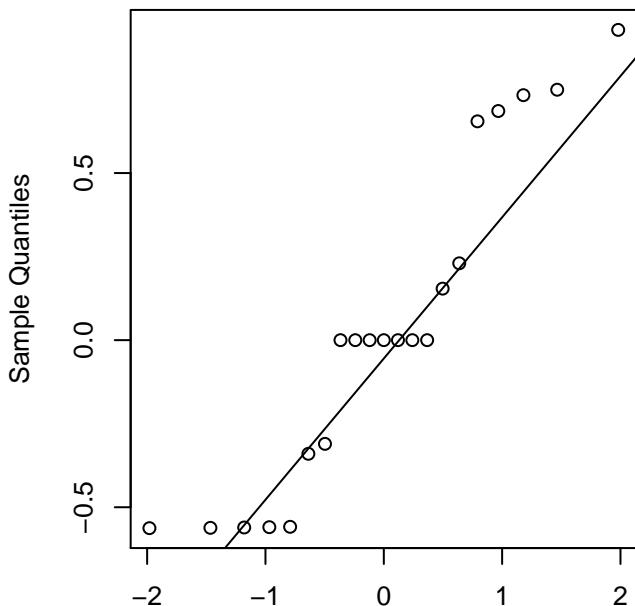
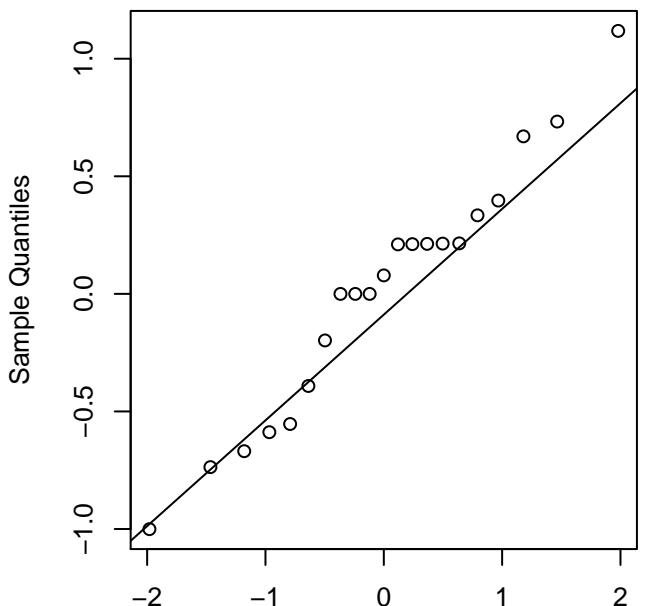
State X.SJI

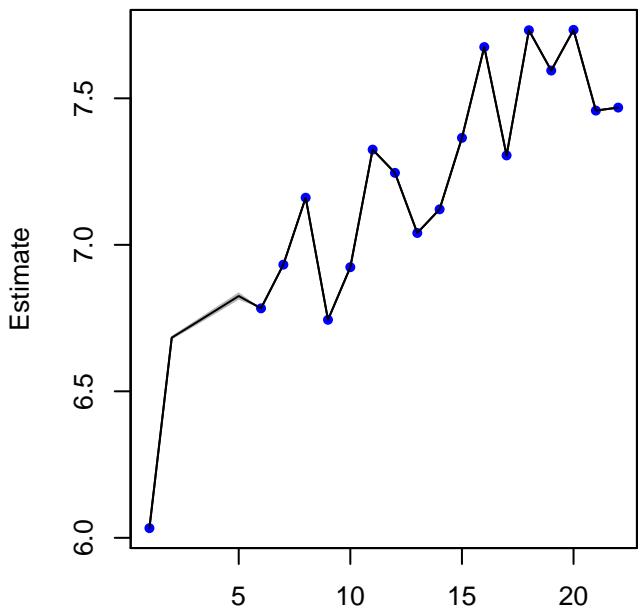
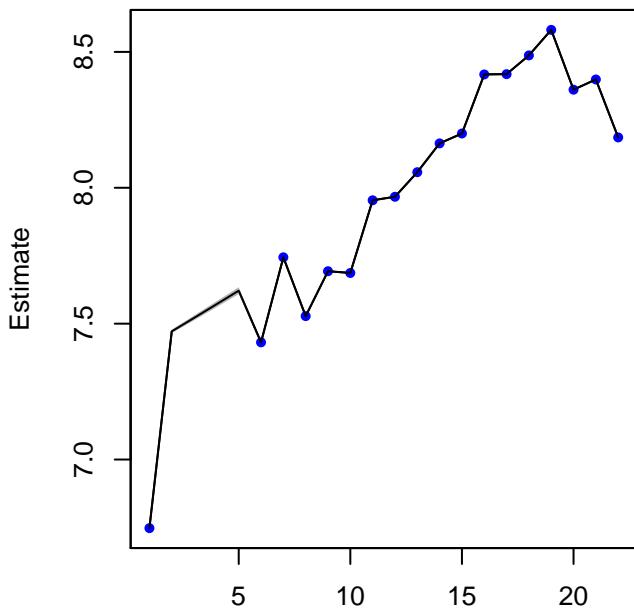
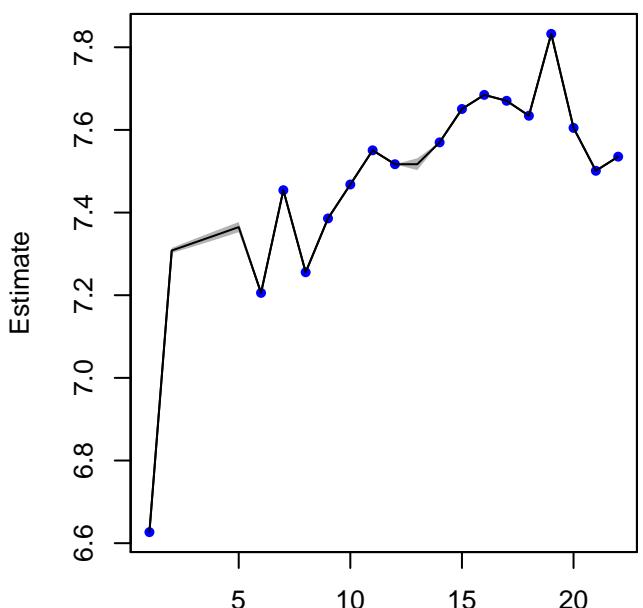


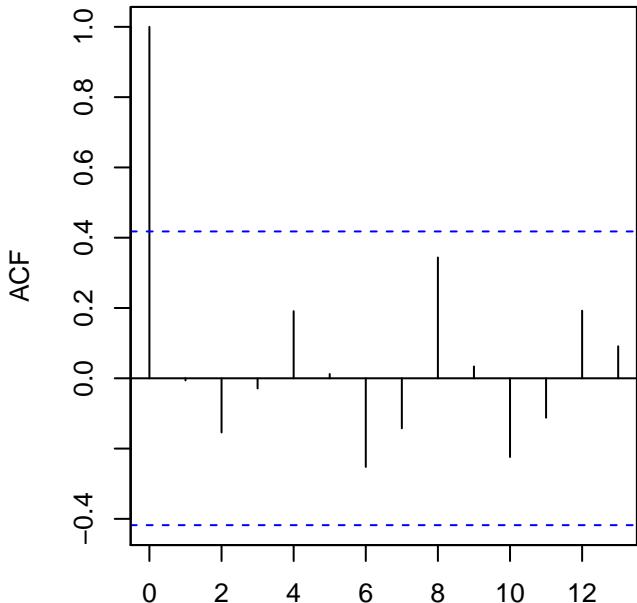
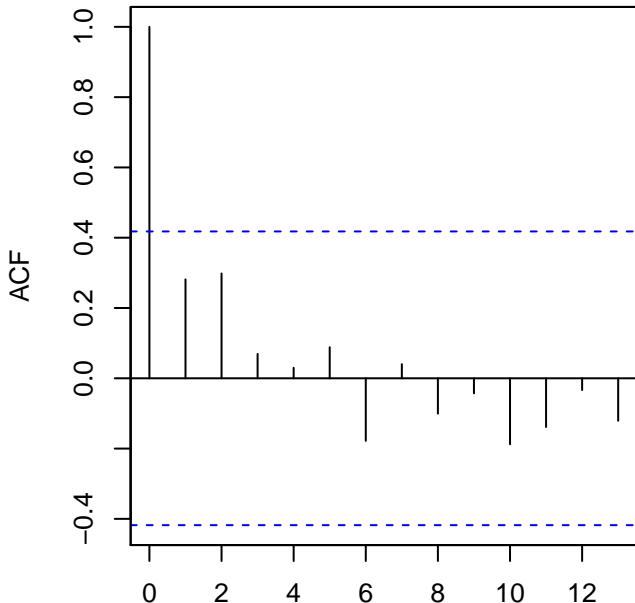
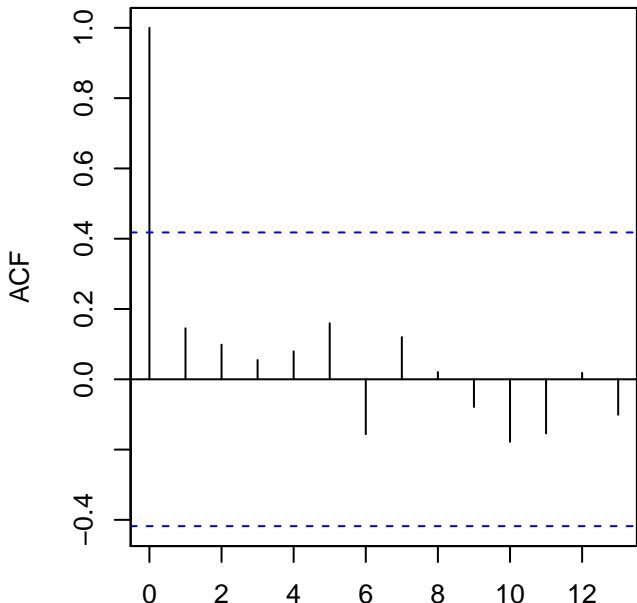
State X.EBays



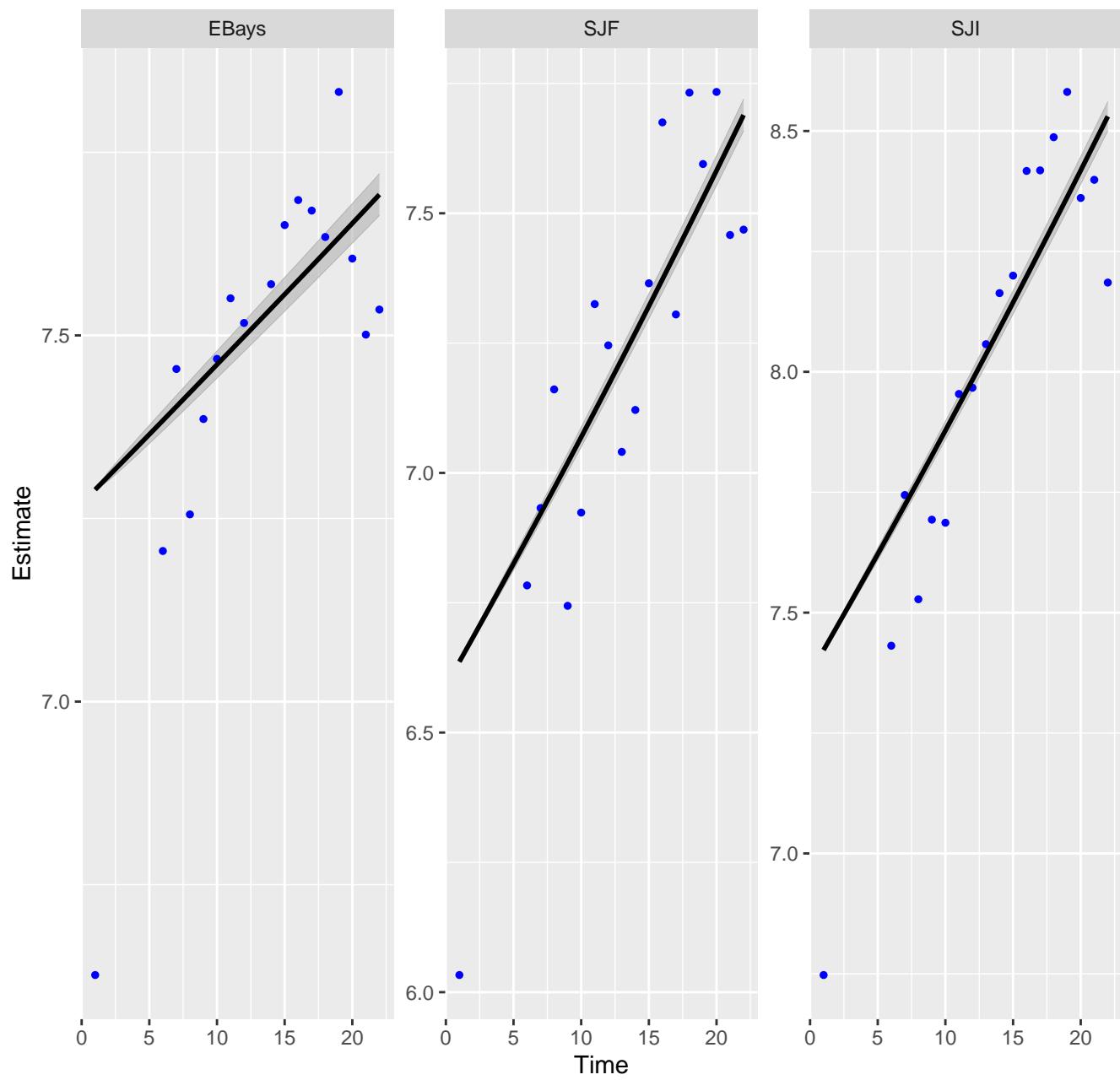
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

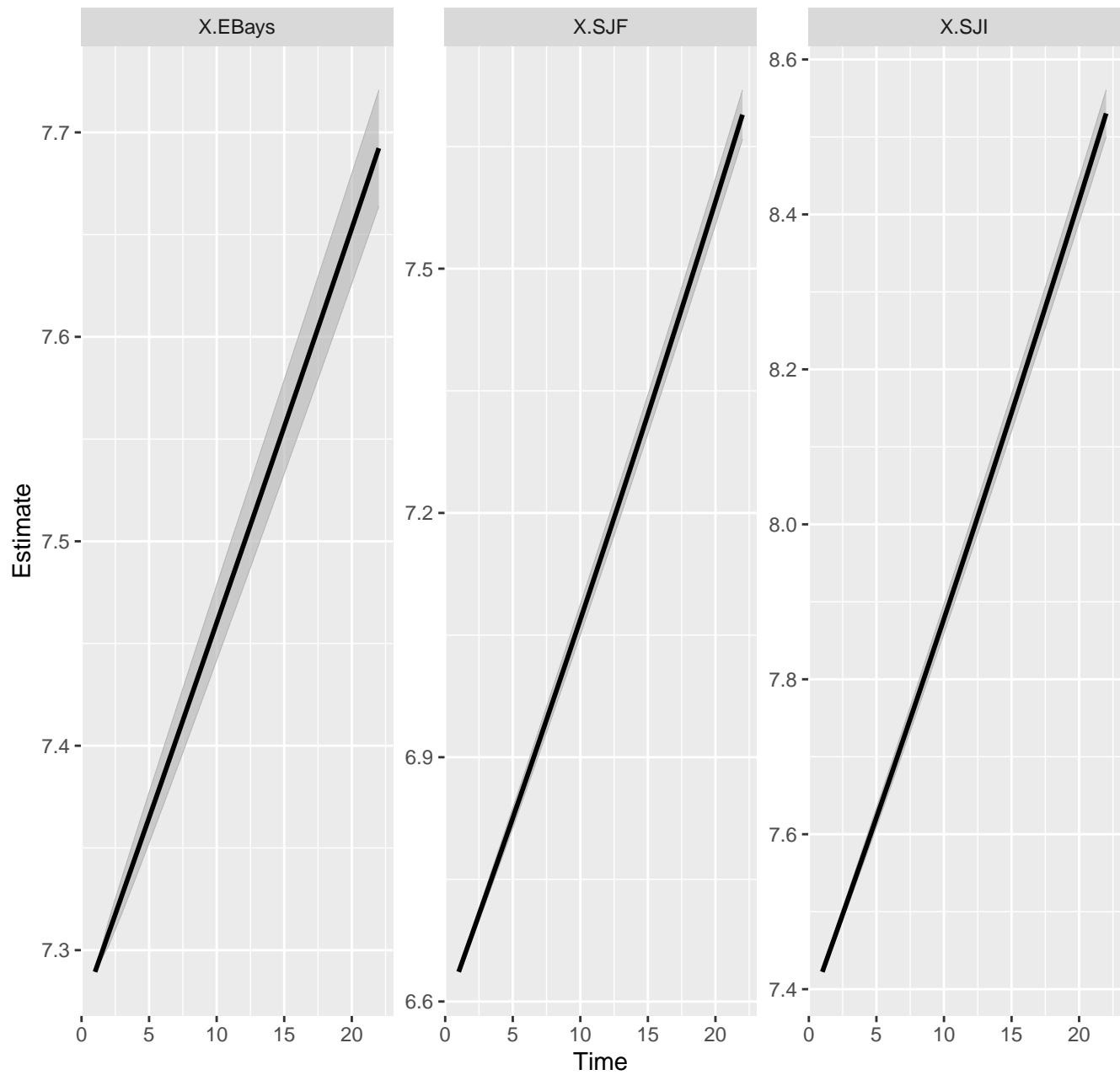
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

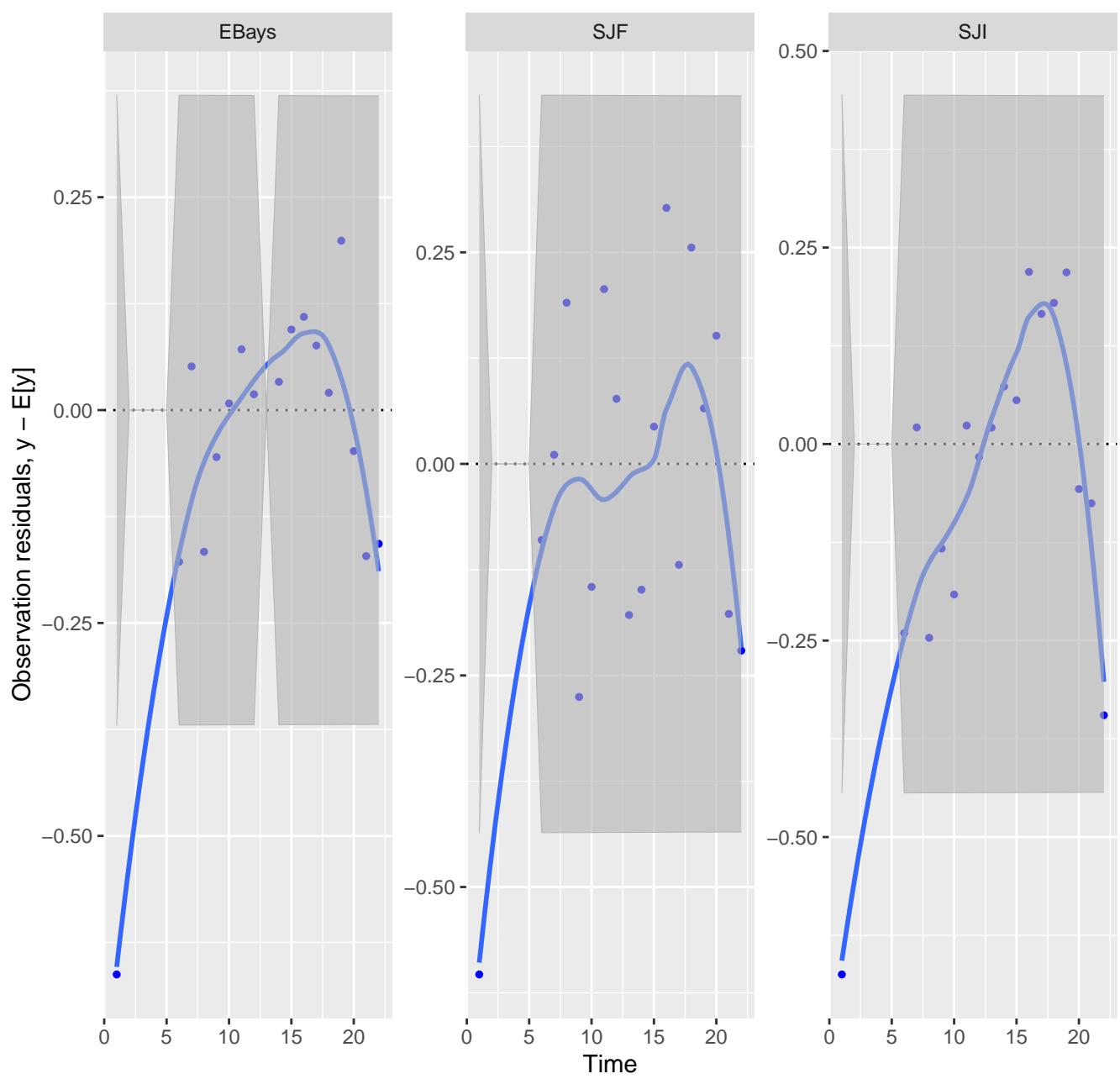
Model fitted Y + CI



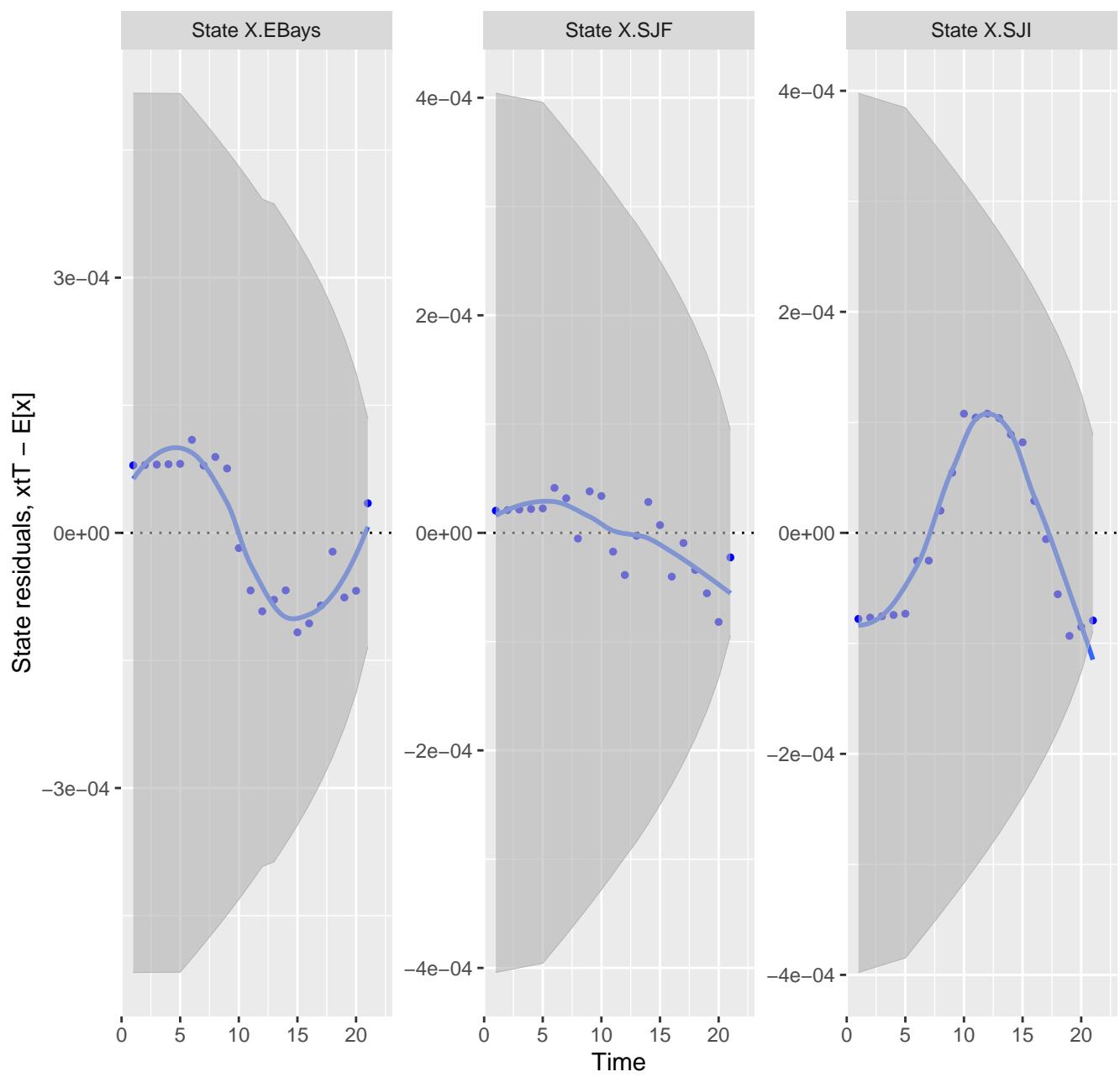
States



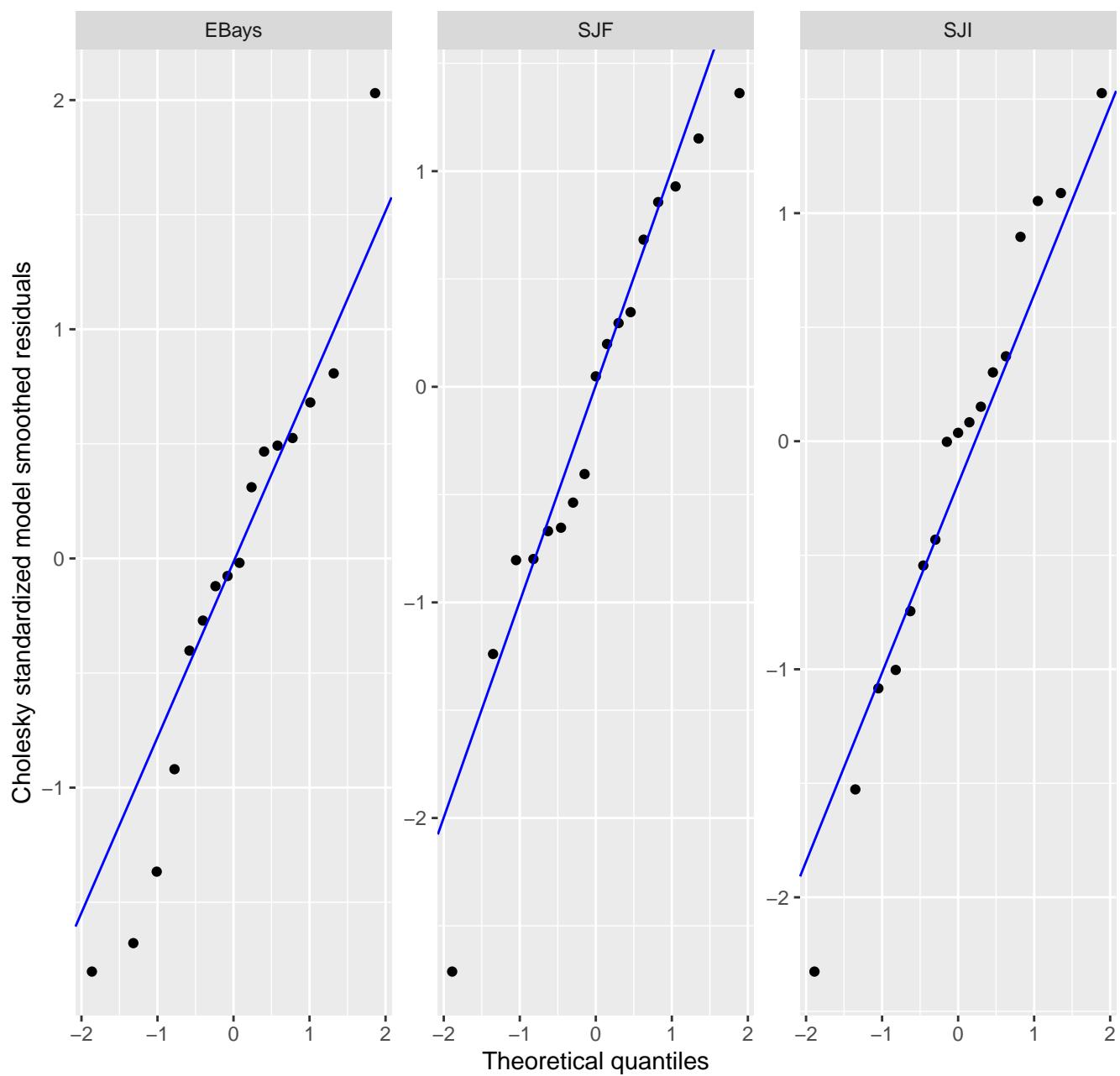
Model residuals



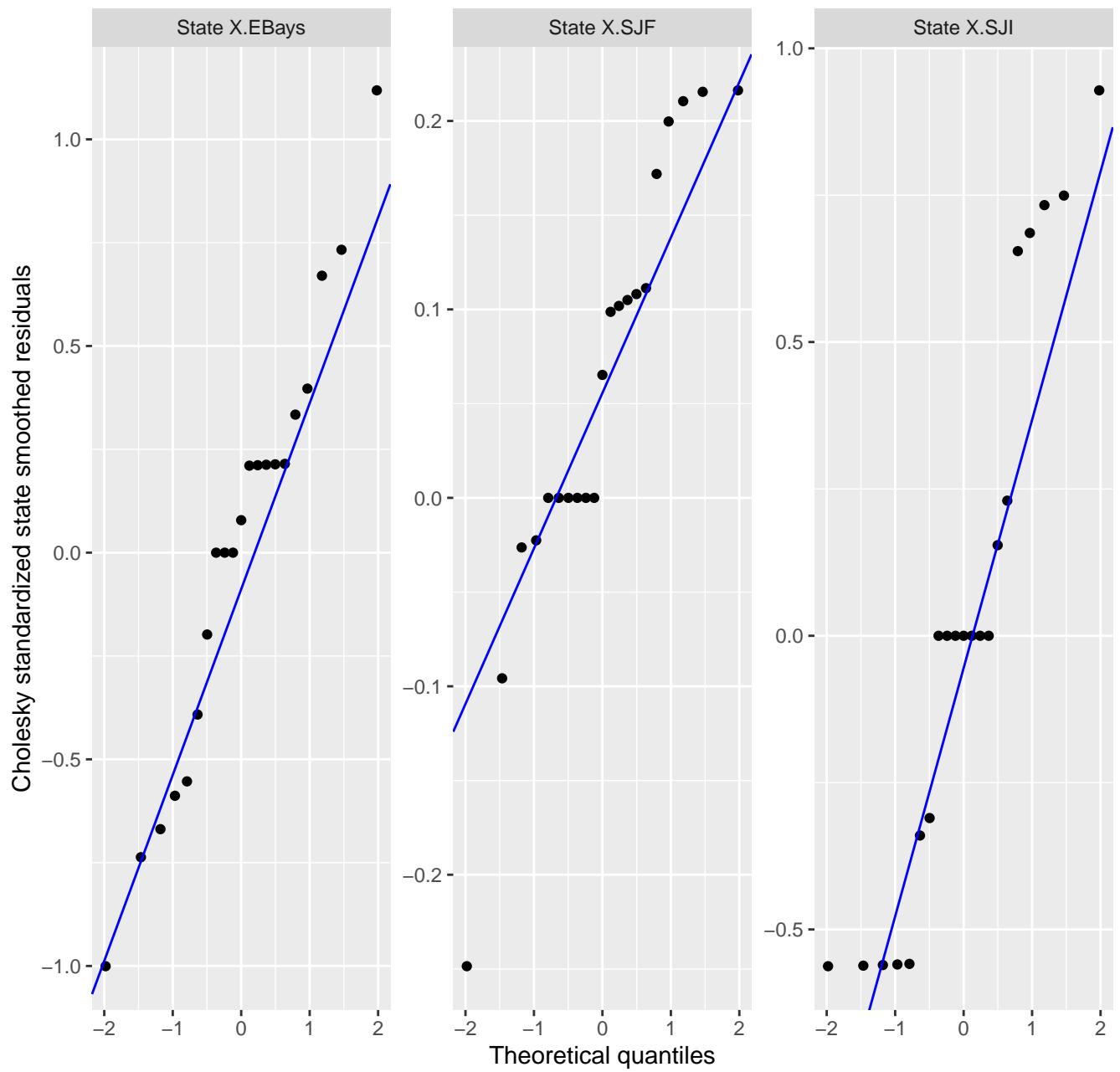
State residuals



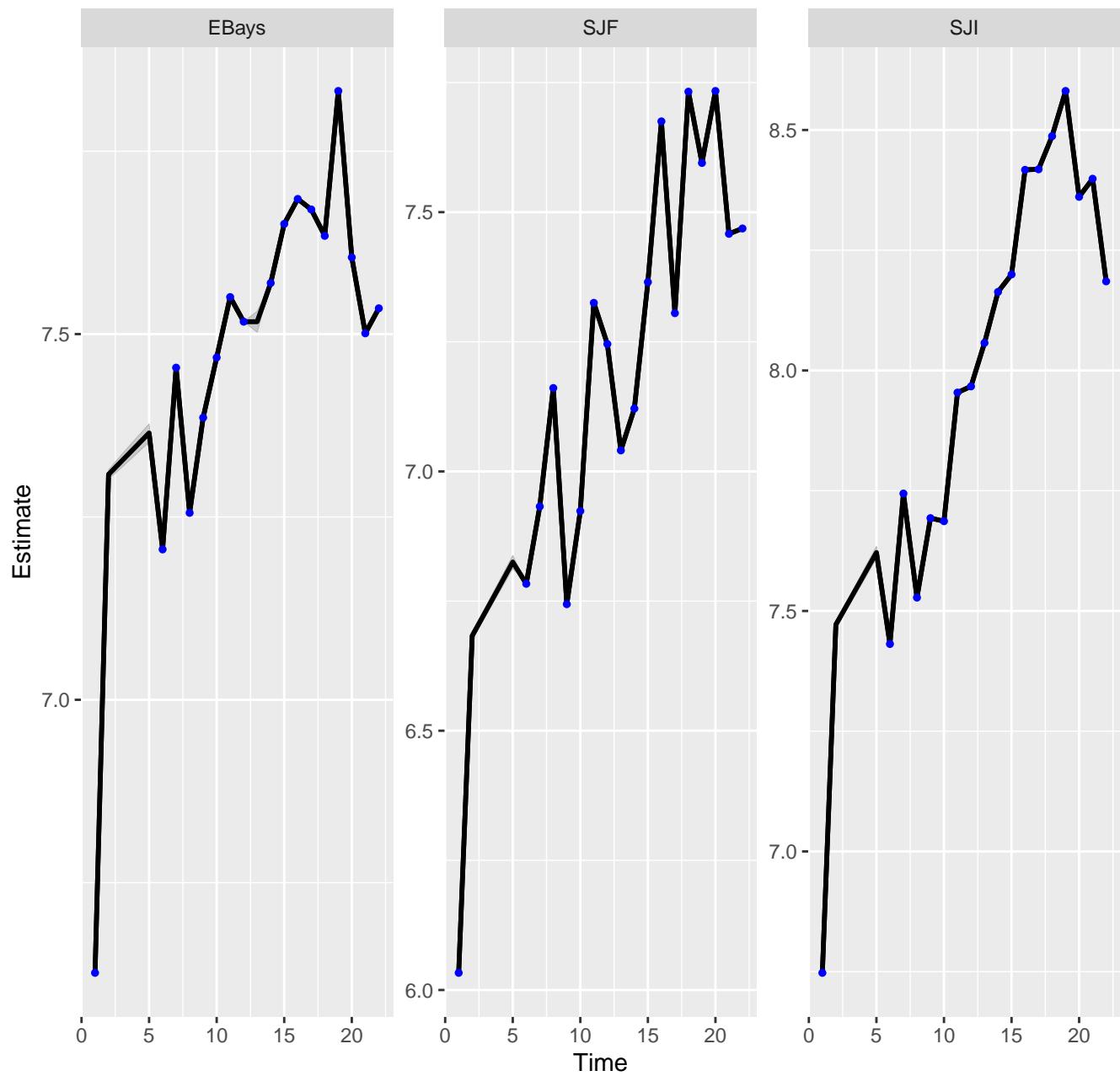
Model residuals normality test



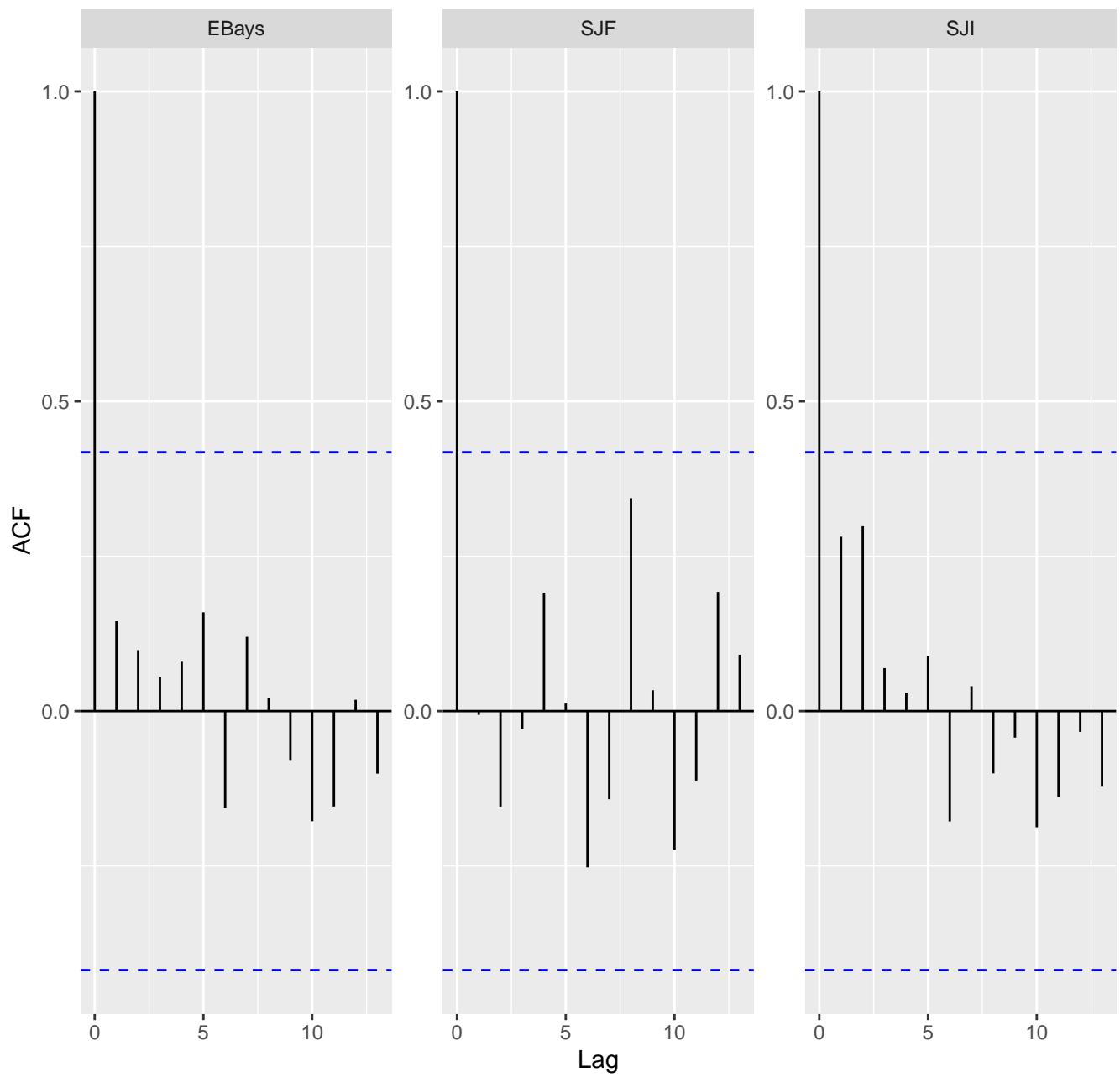
State residuals normality test

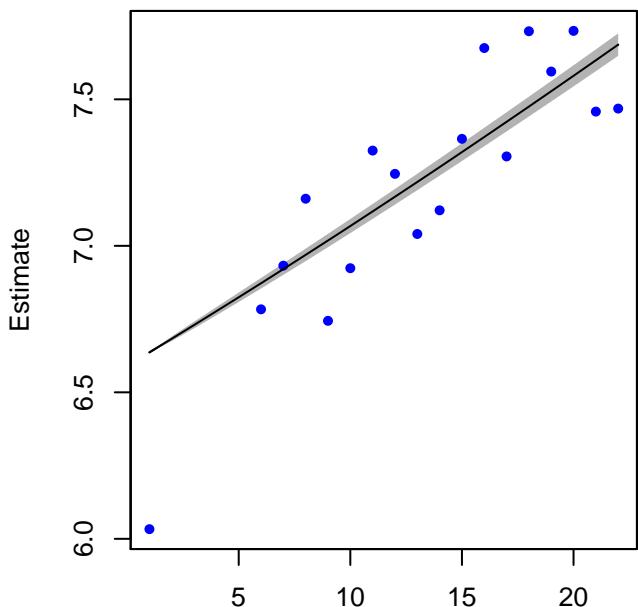
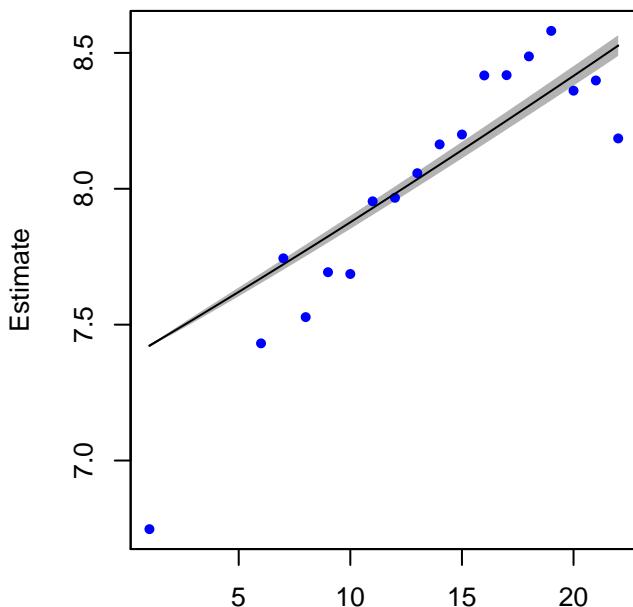
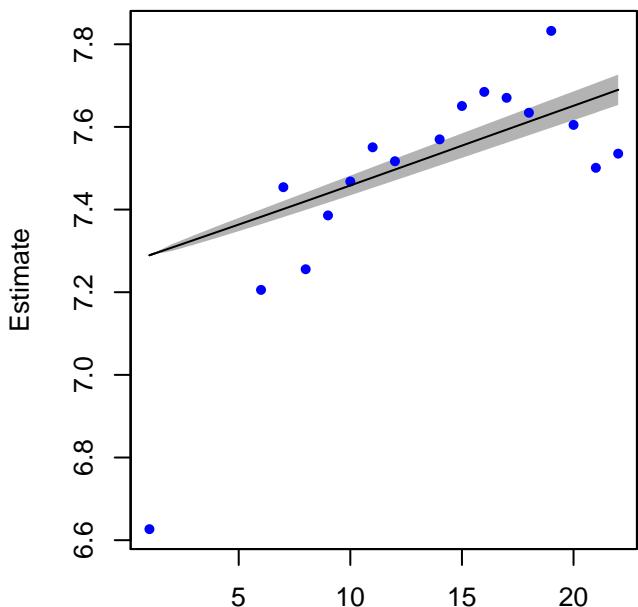


Expected value of Y conditioned on data

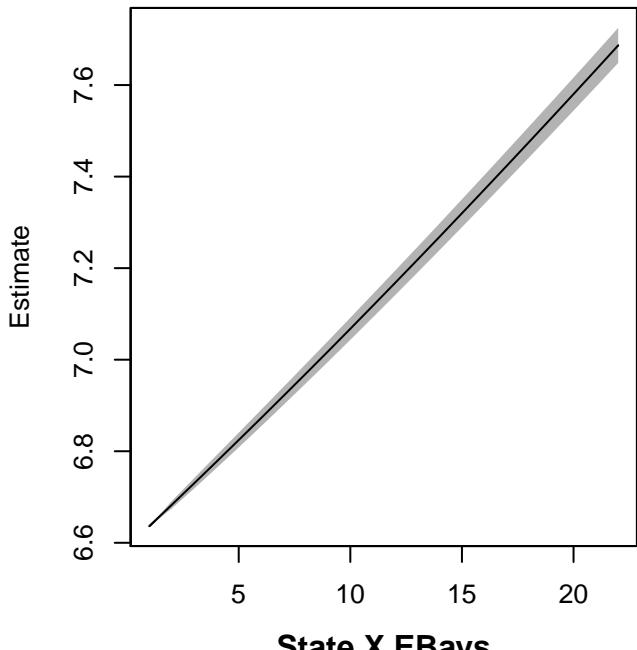


Model innovations residuals ACF

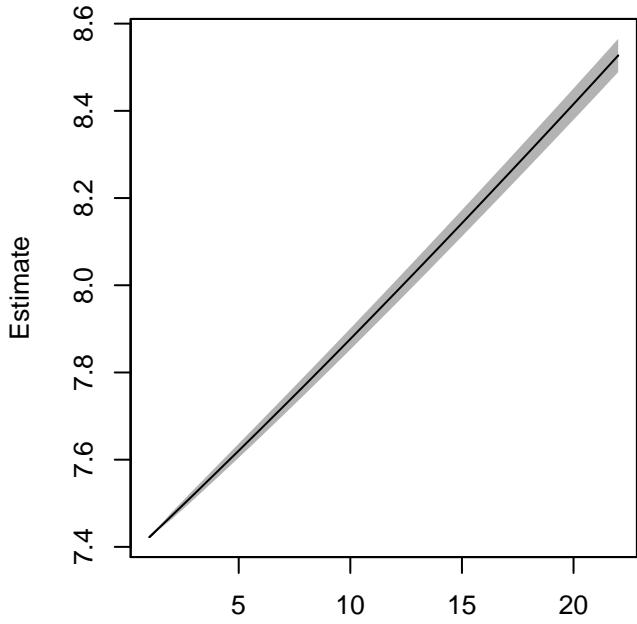


SJF + CI**SJI + CI****EBays + CI**

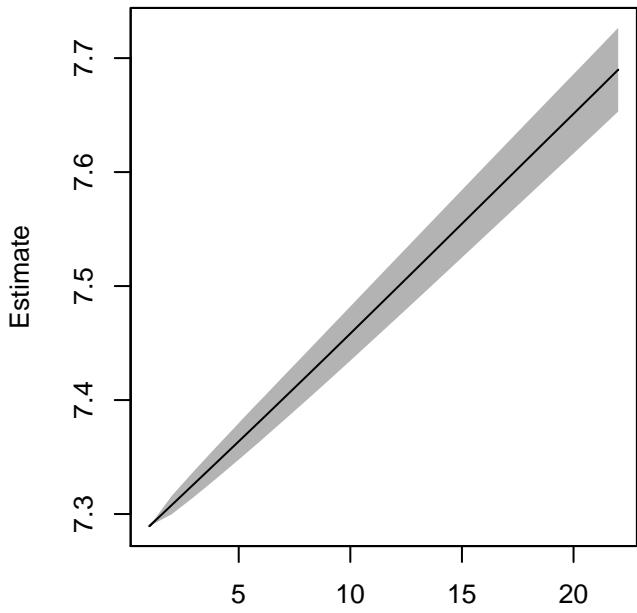
State X.SJF

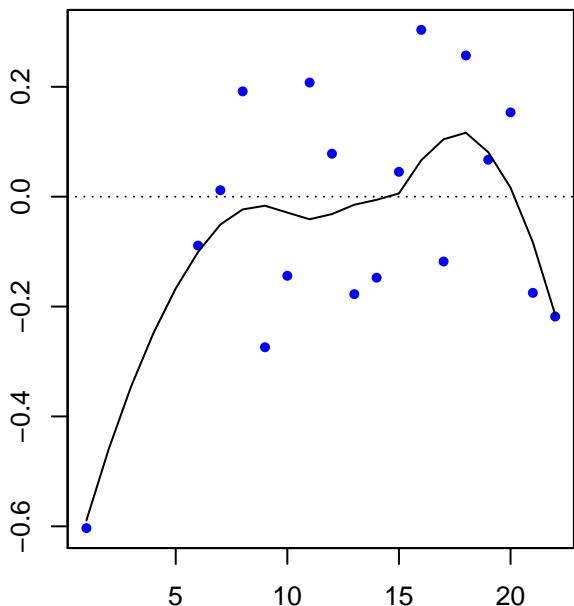
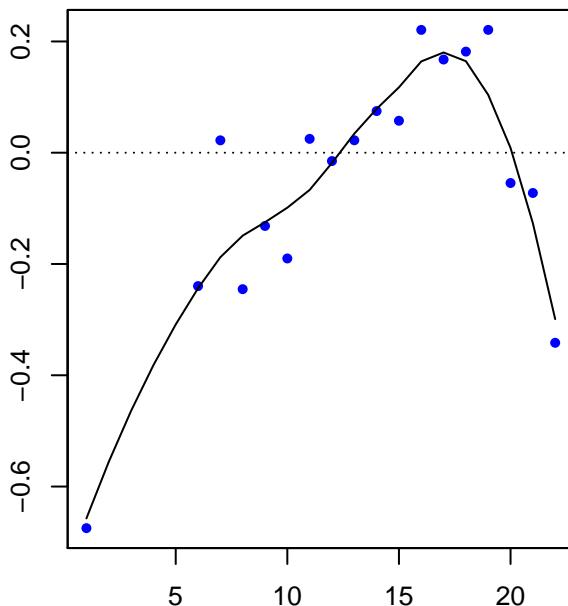
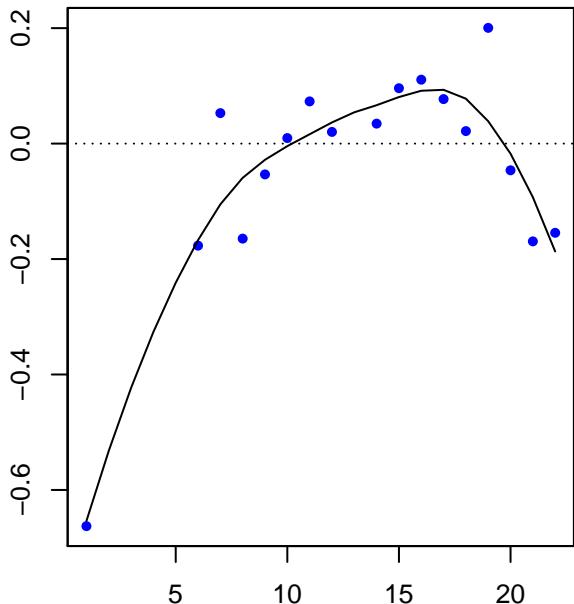


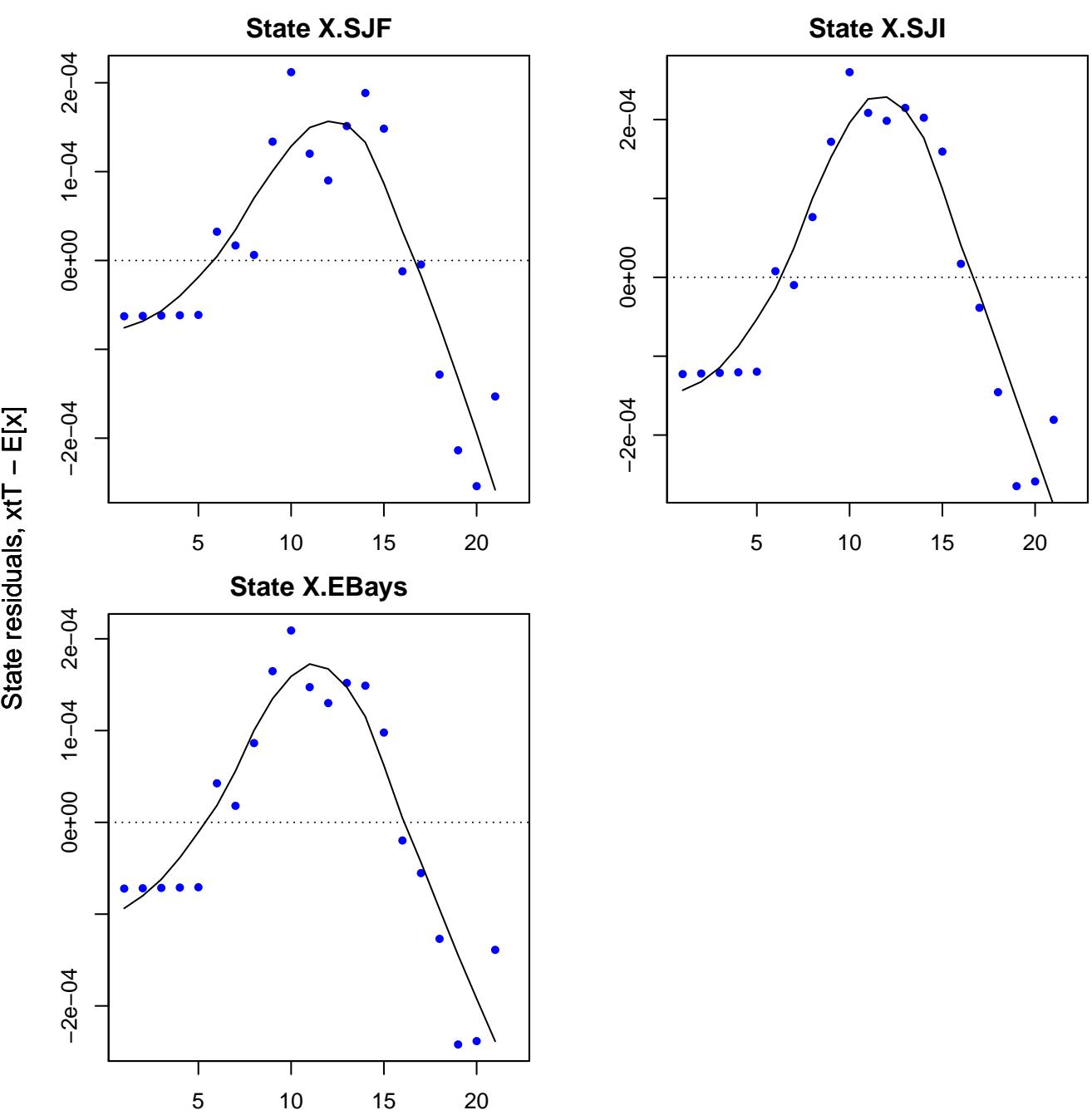
State X.SJI

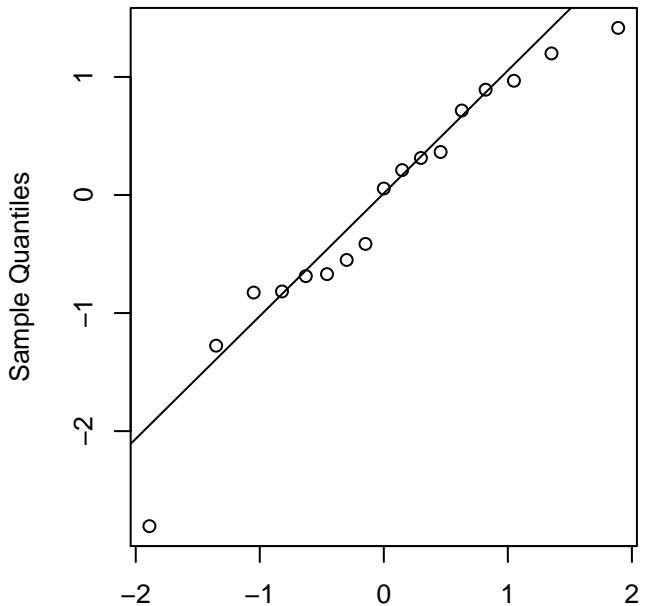
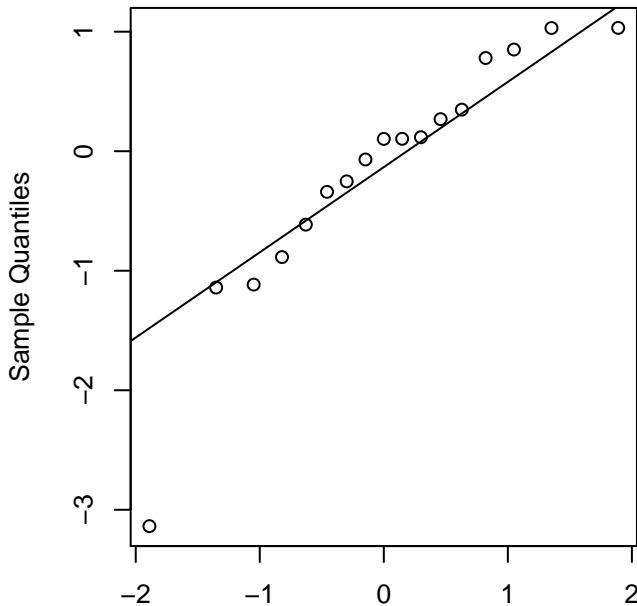
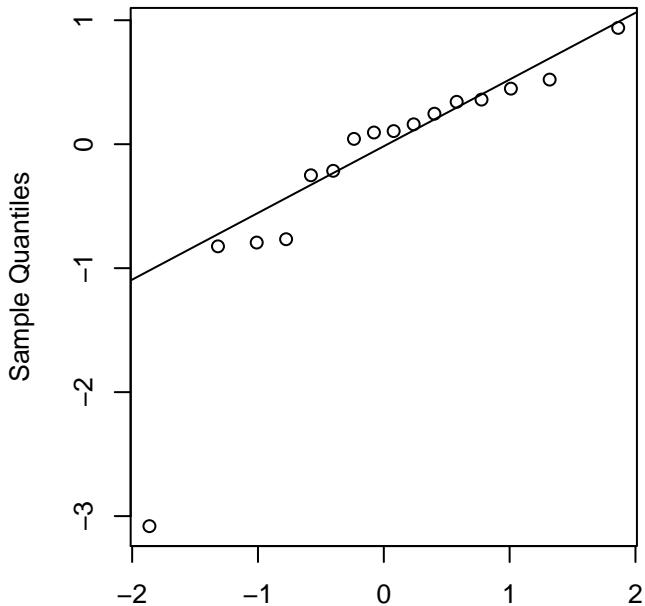


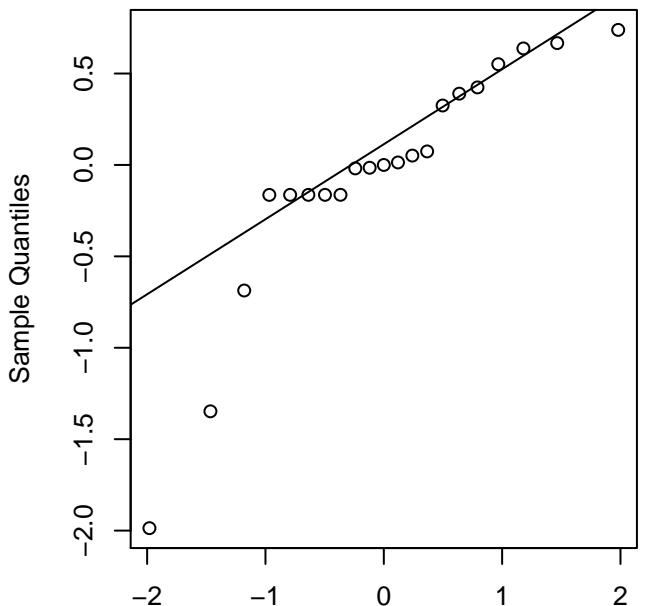
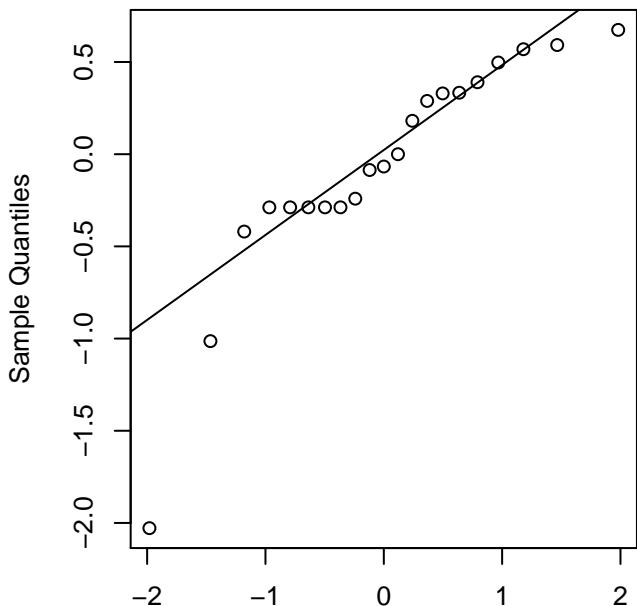
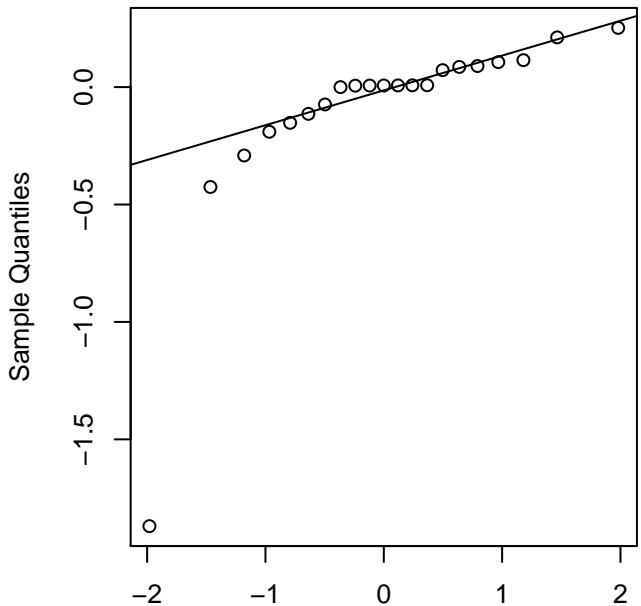
State X.EBays

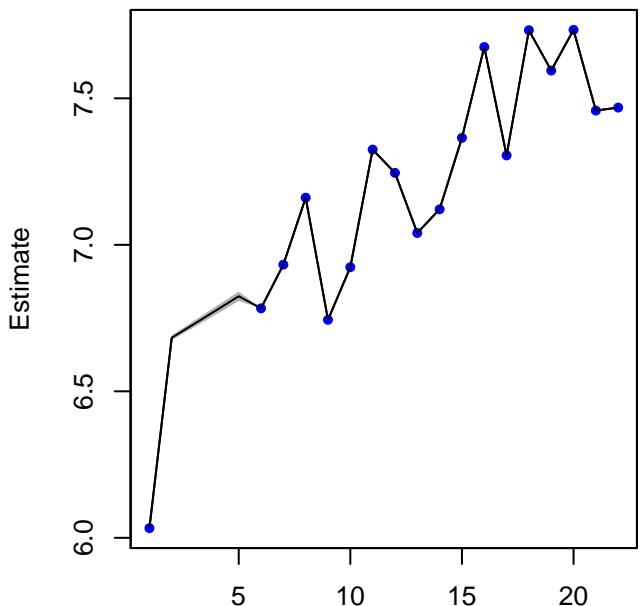
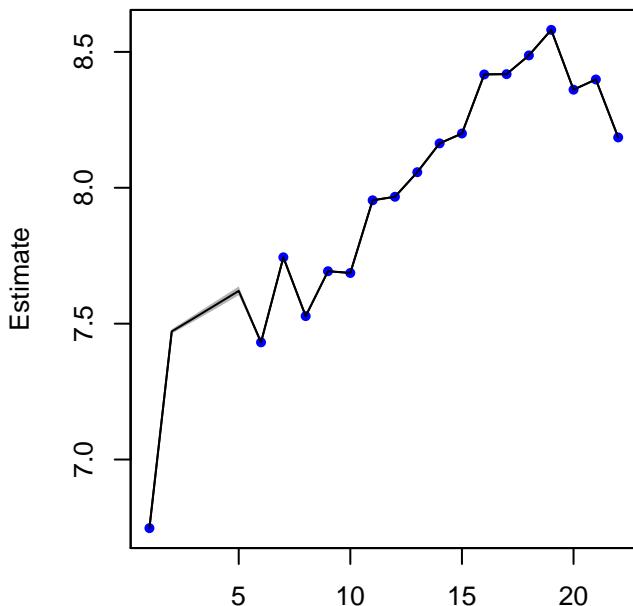
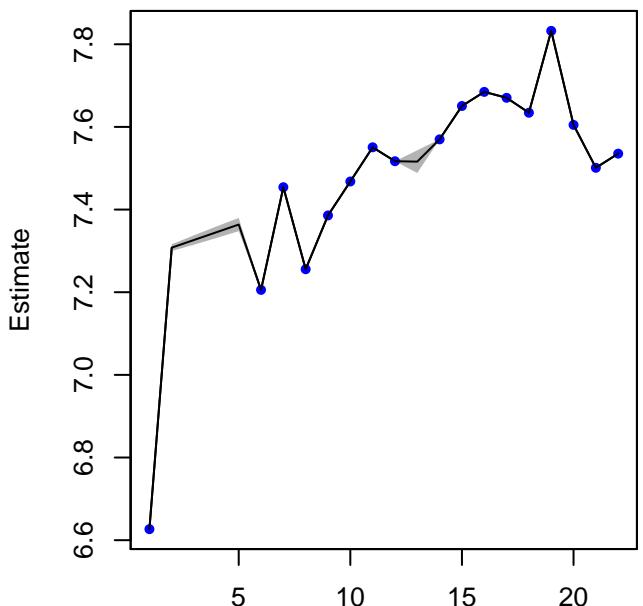


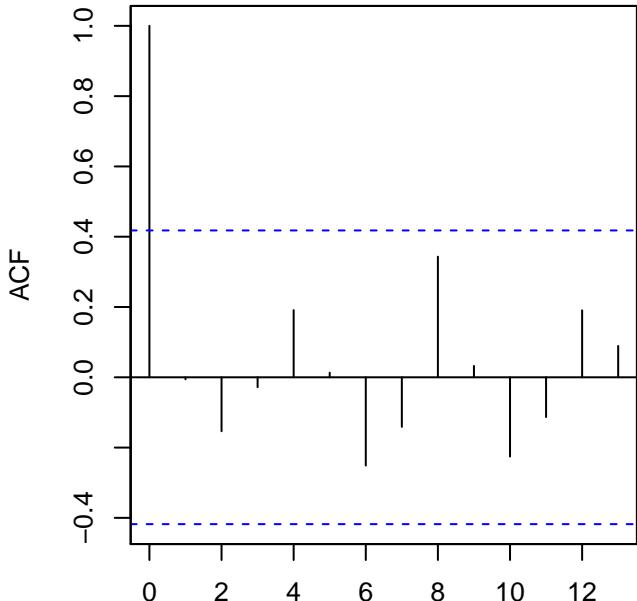
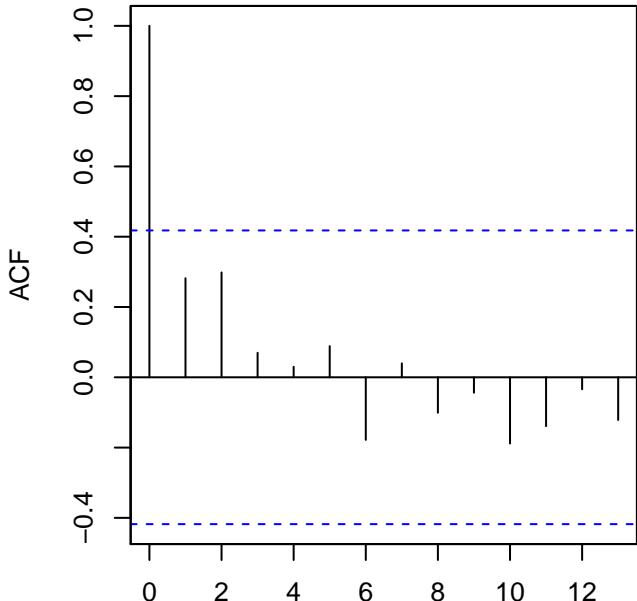
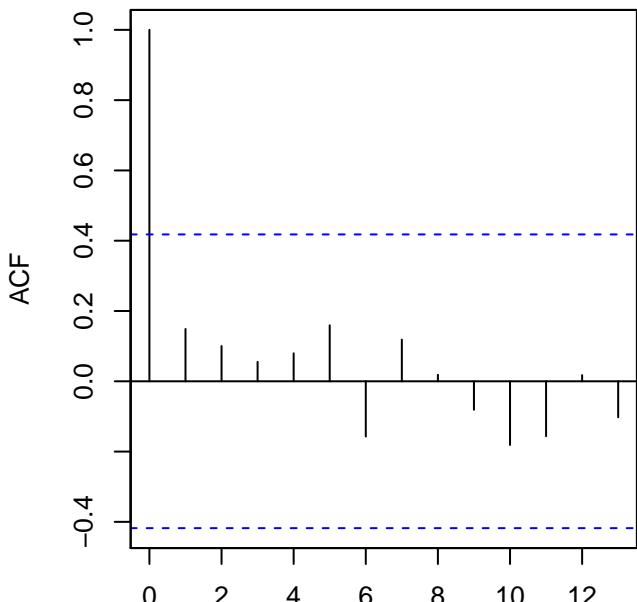
SJFObservation residuals, $y - E[y]$ **SJI****EBays**Observation residuals, $y - E[y]$ 



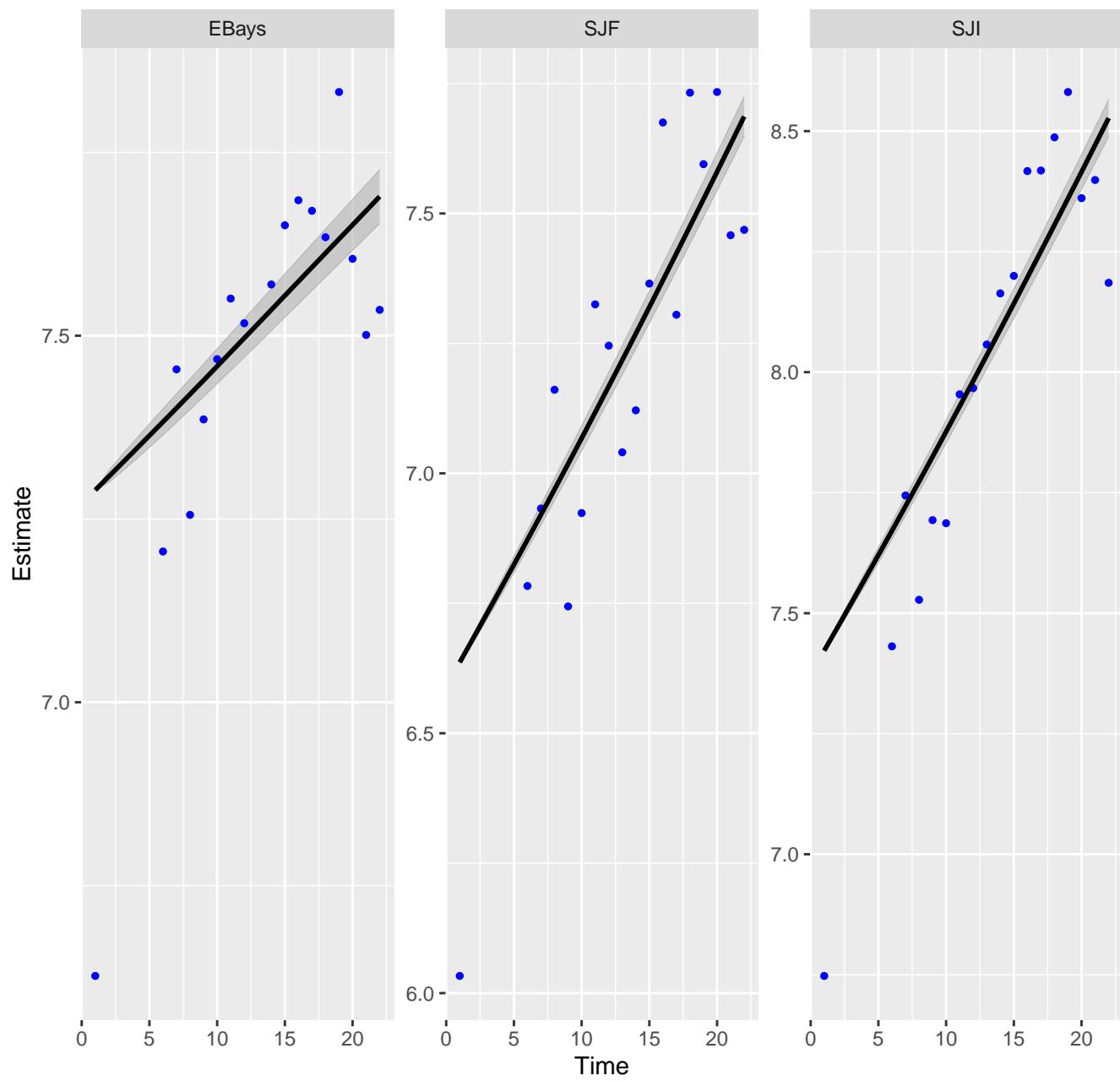
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

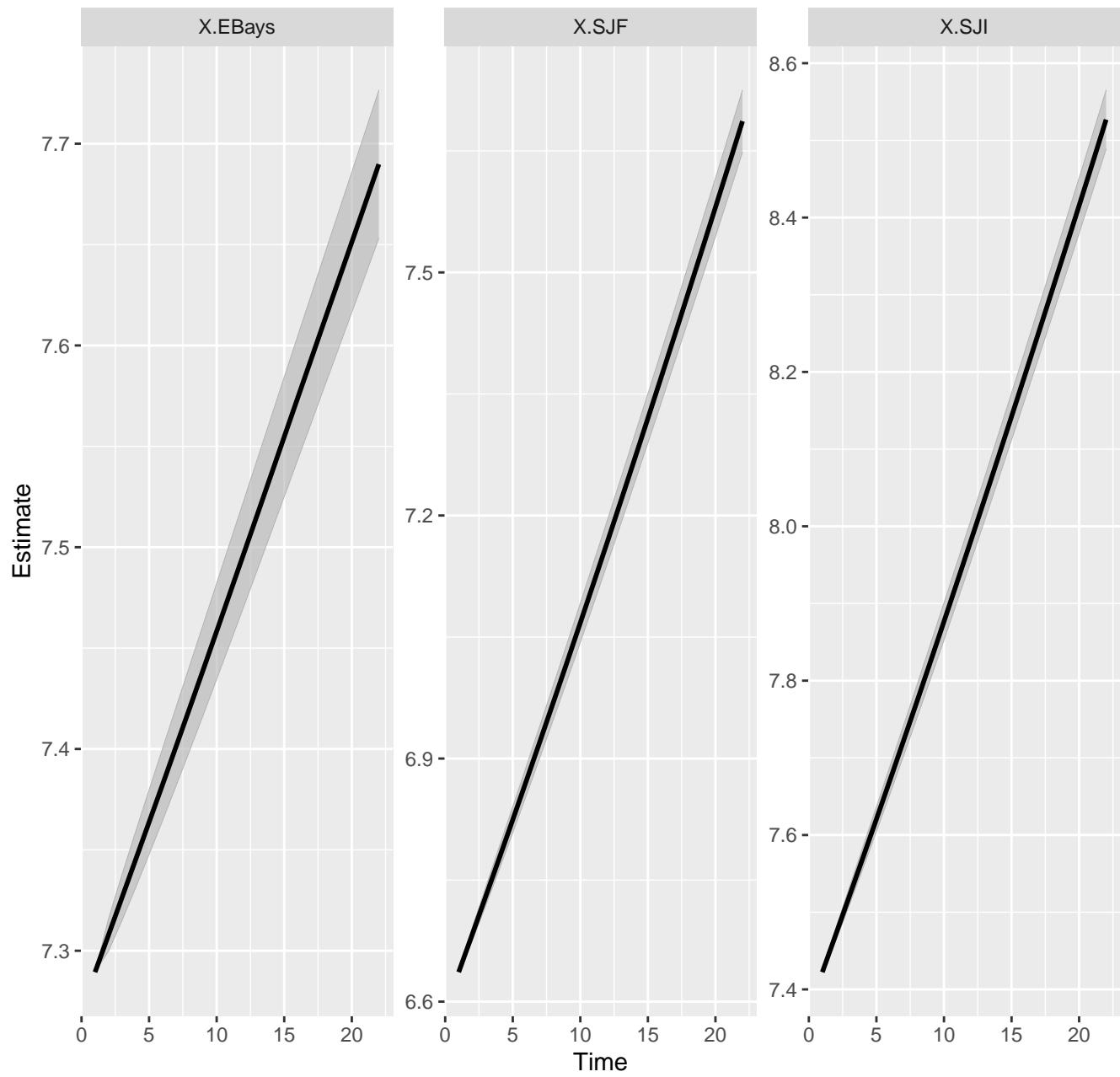
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

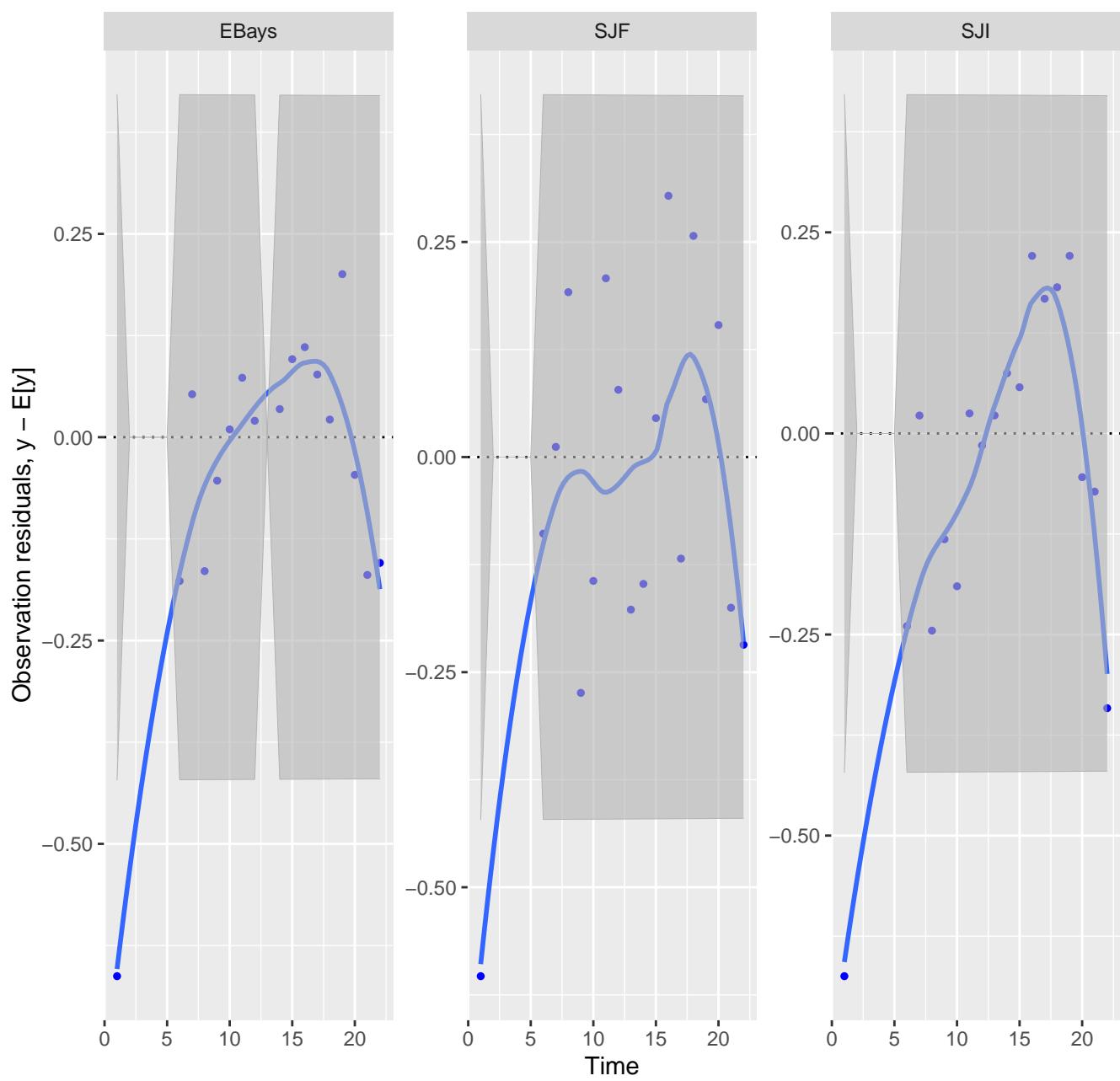
Model fitted Y + CI



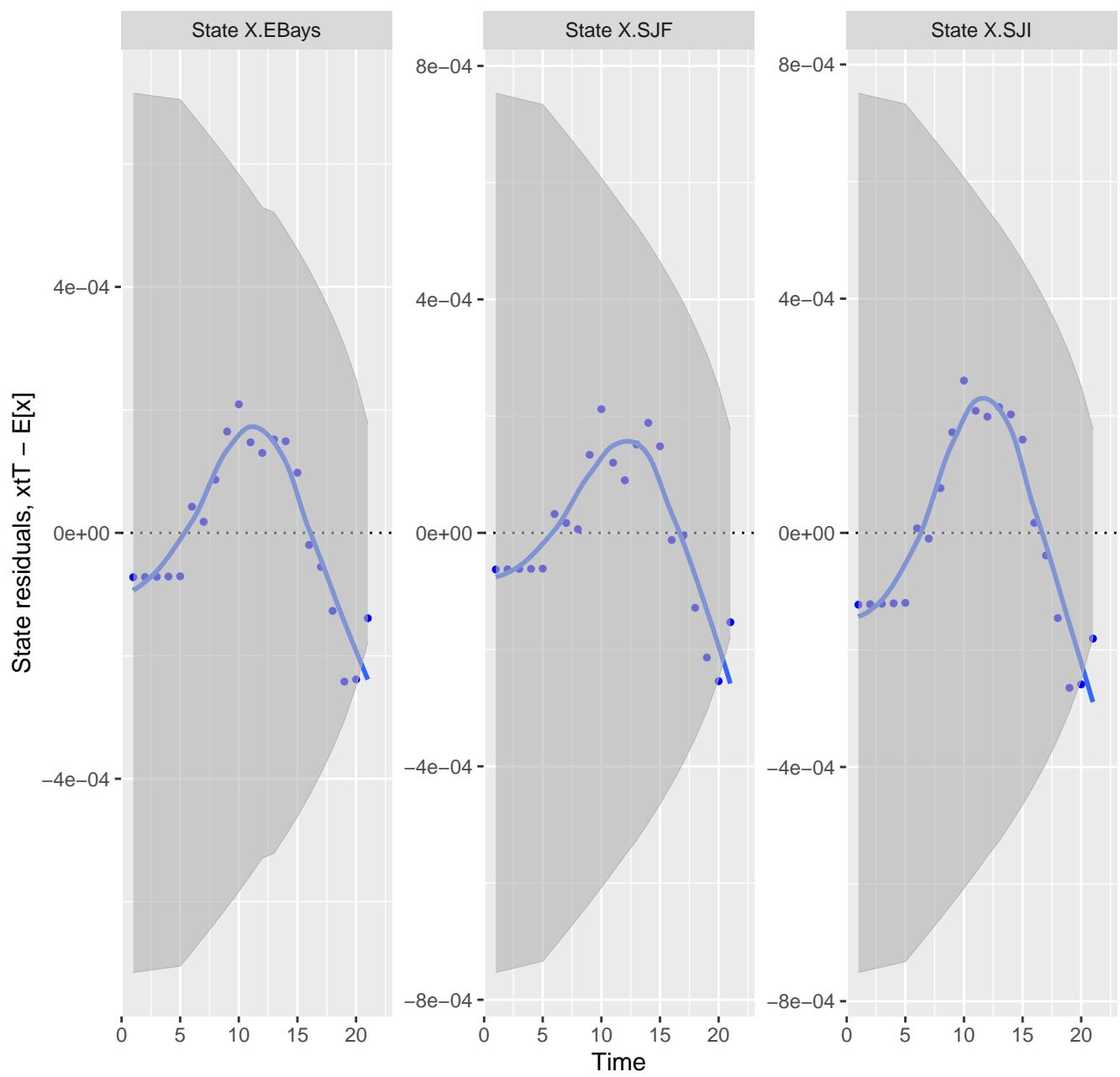
States



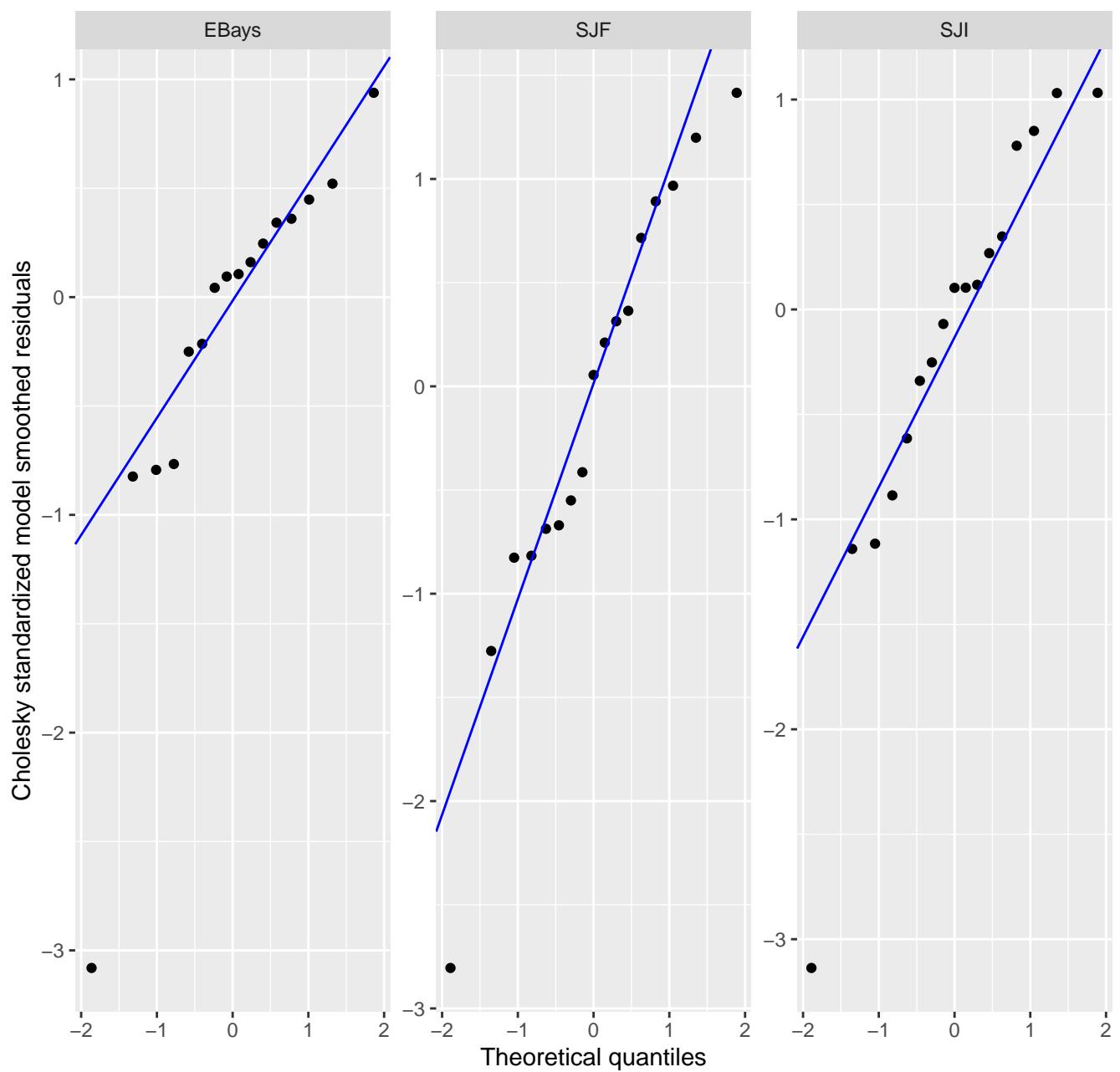
Model residuals



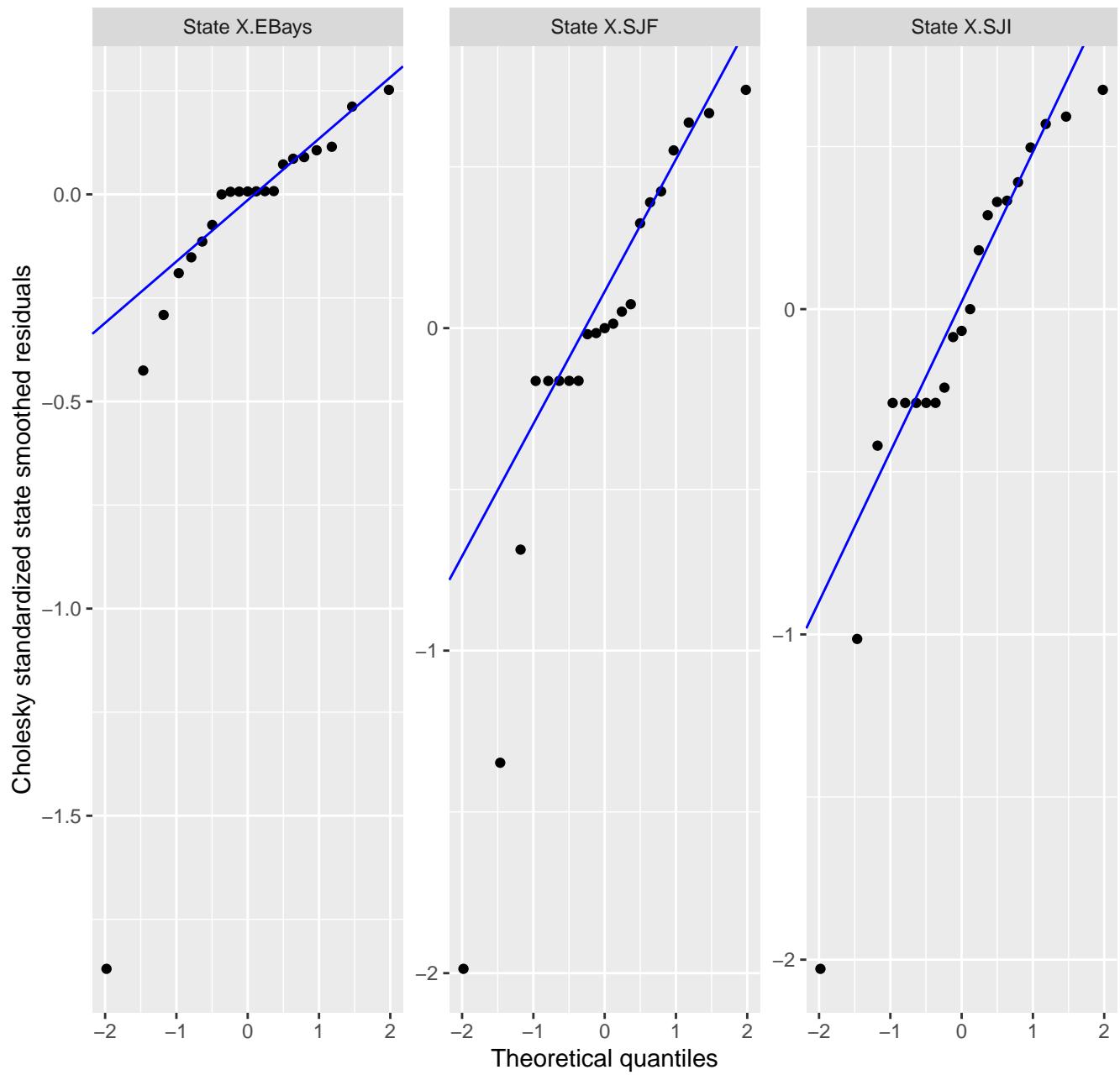
State residuals



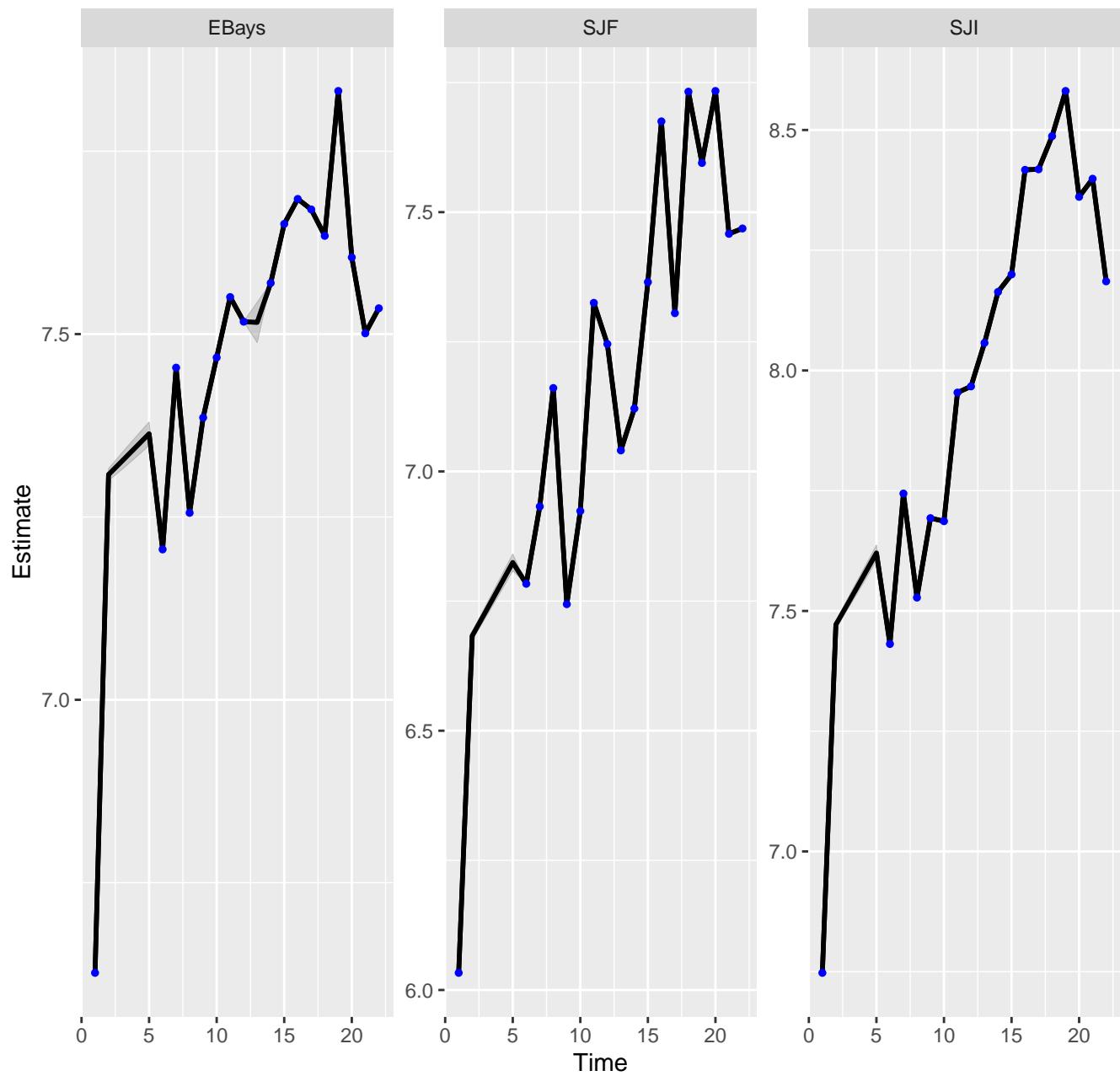
Model residuals normality test



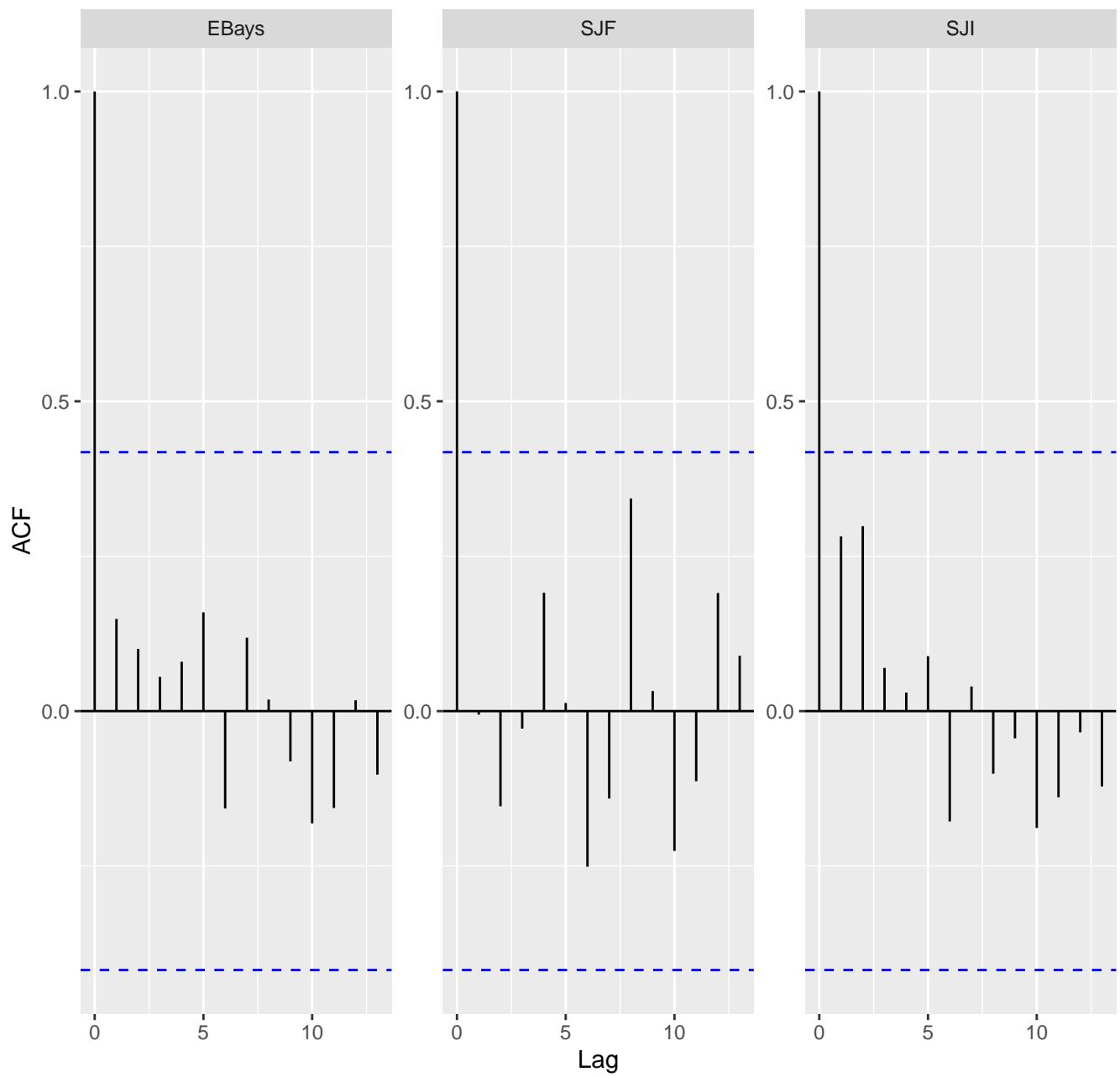
State residuals normality test

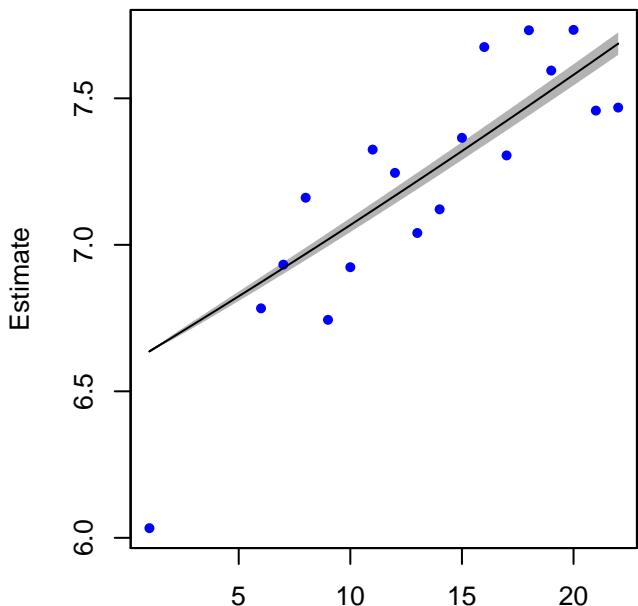
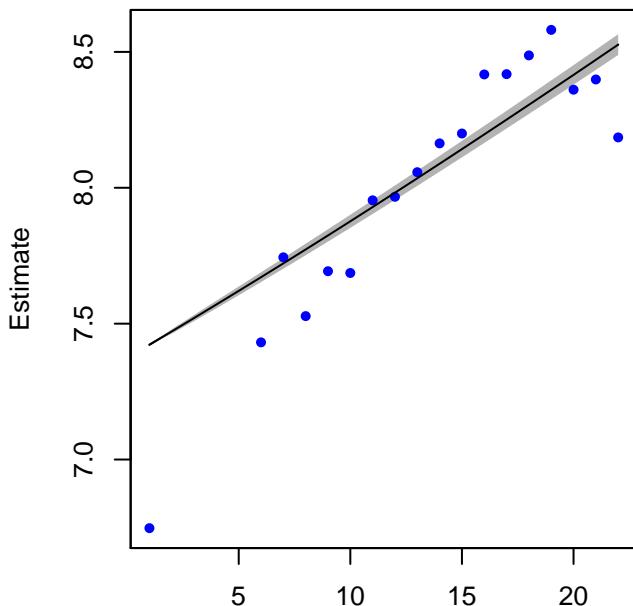
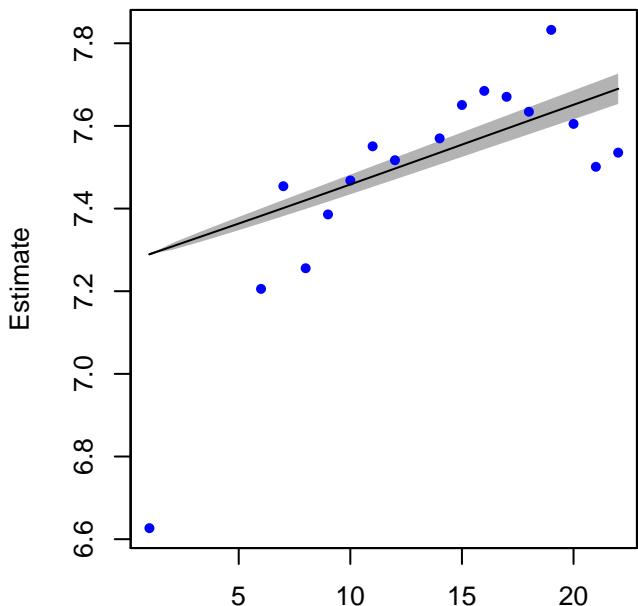


Expected value of Y conditioned on data

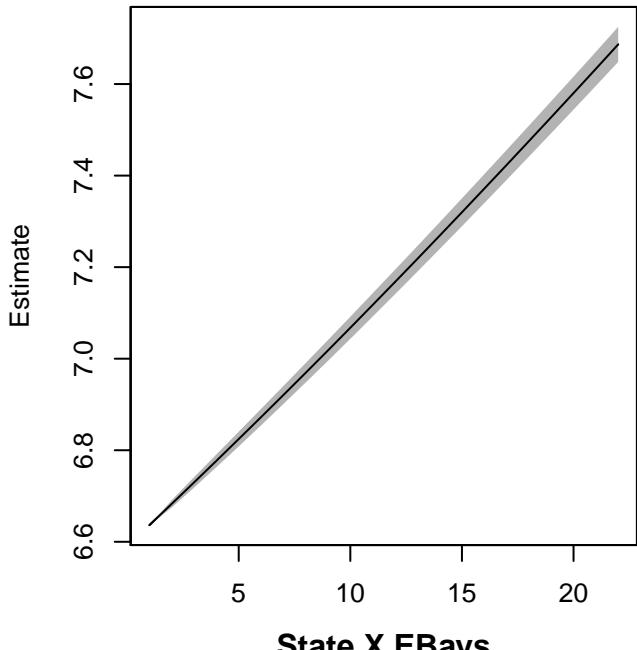


Model innovations residuals ACF

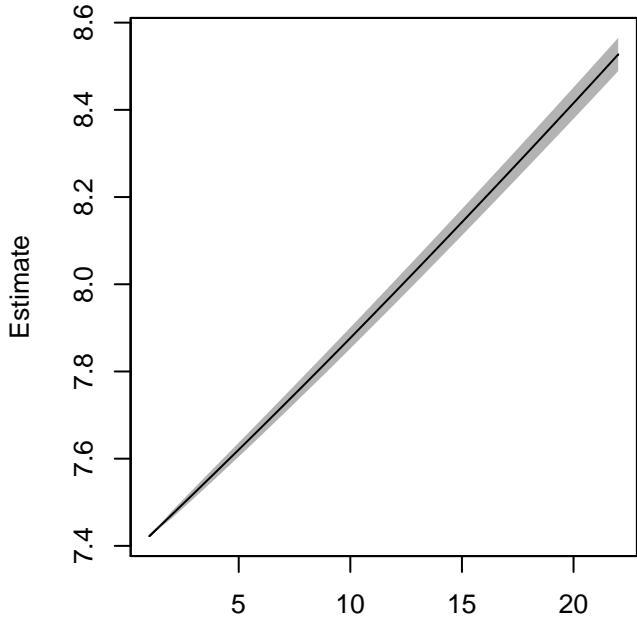


SJF + CI**SJI + CI****EBays + CI**

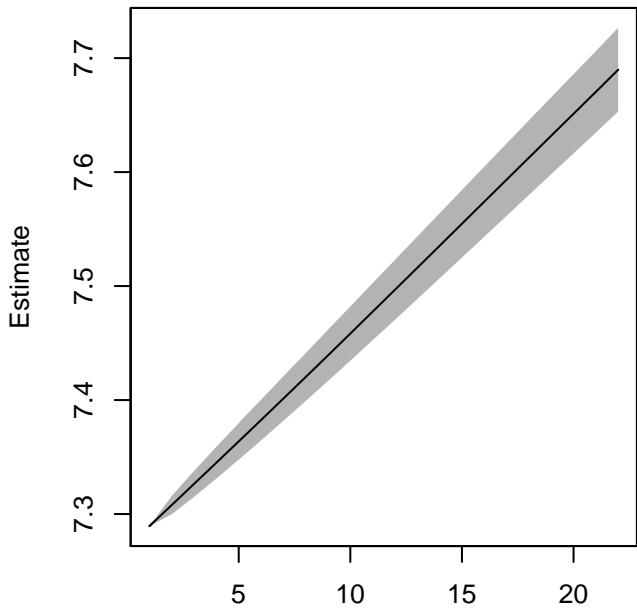
State X.SJF

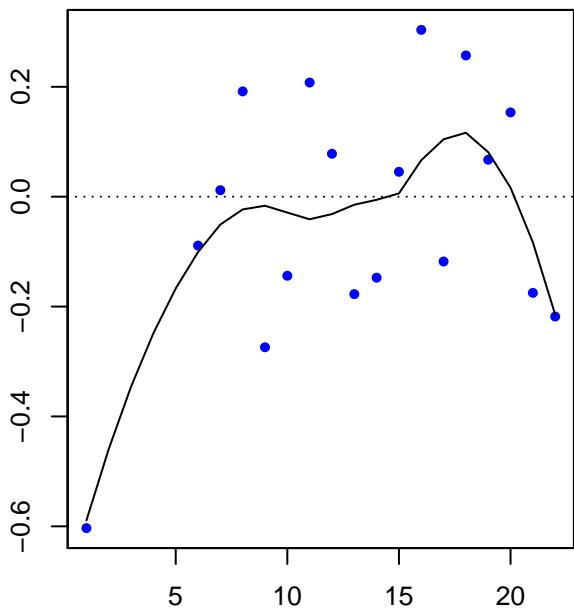
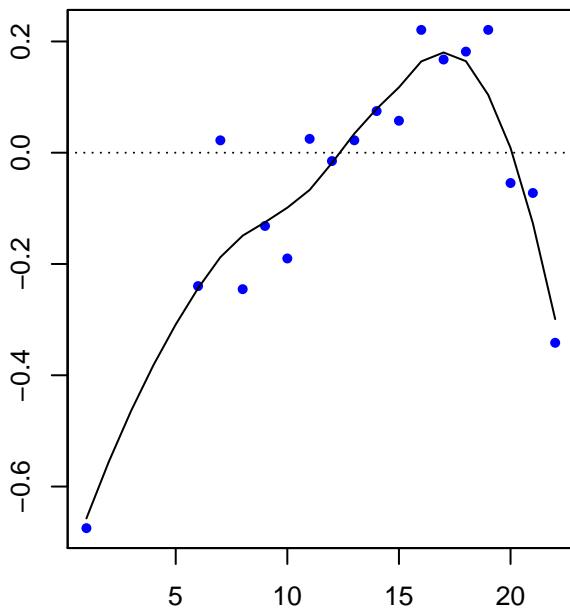
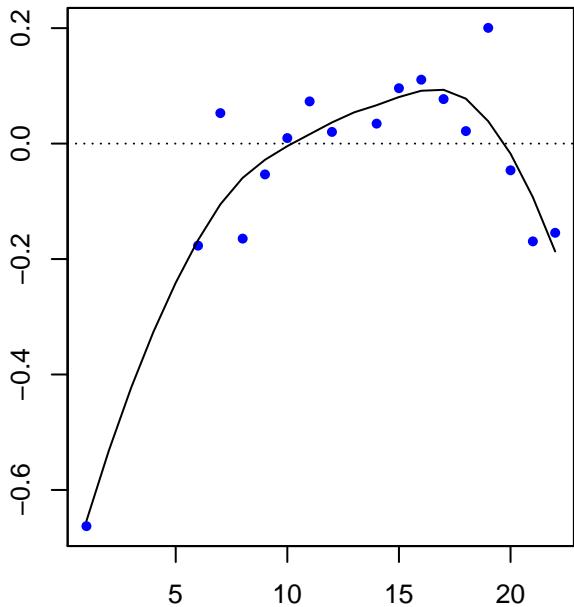


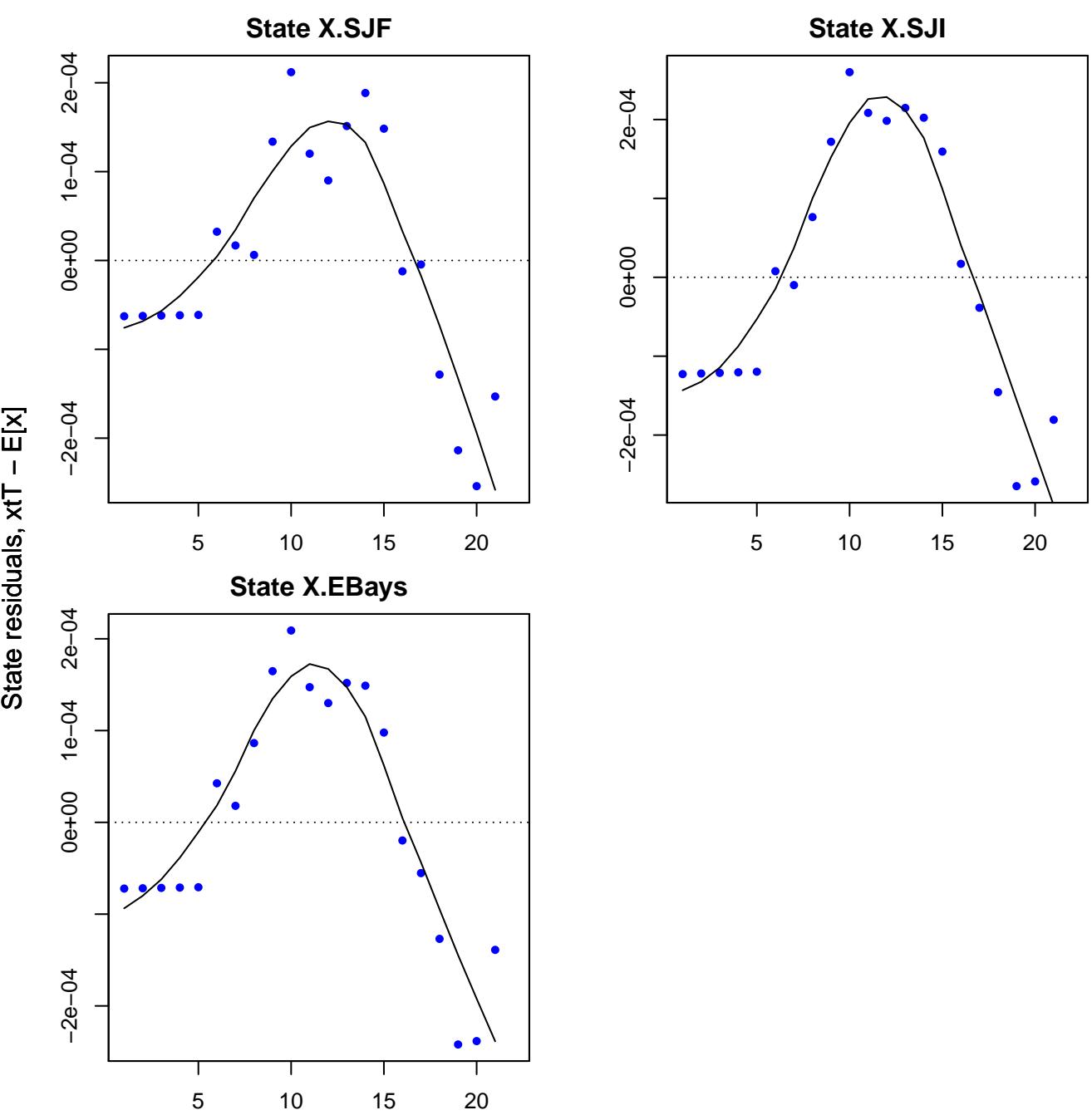
State X.SJI

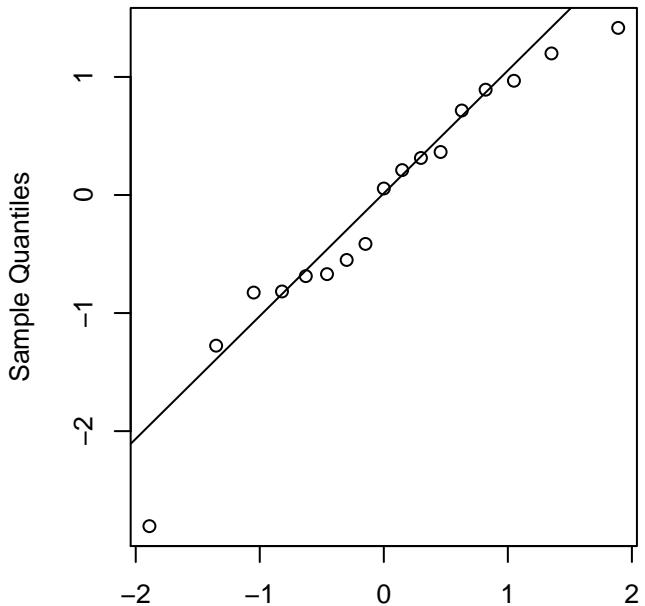
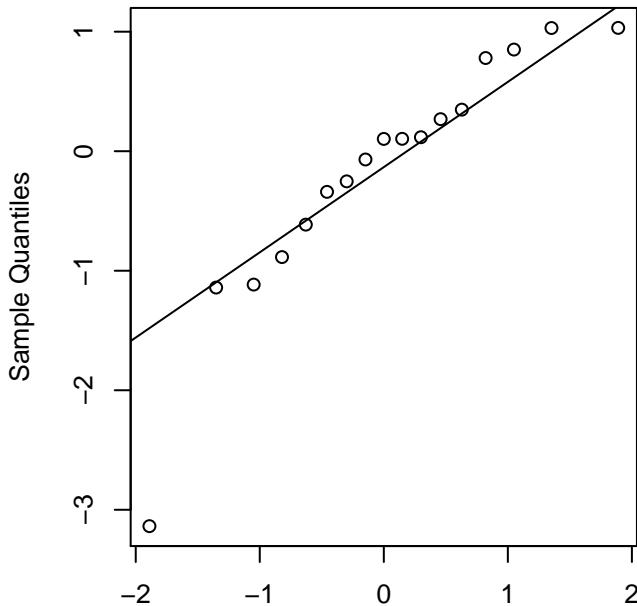
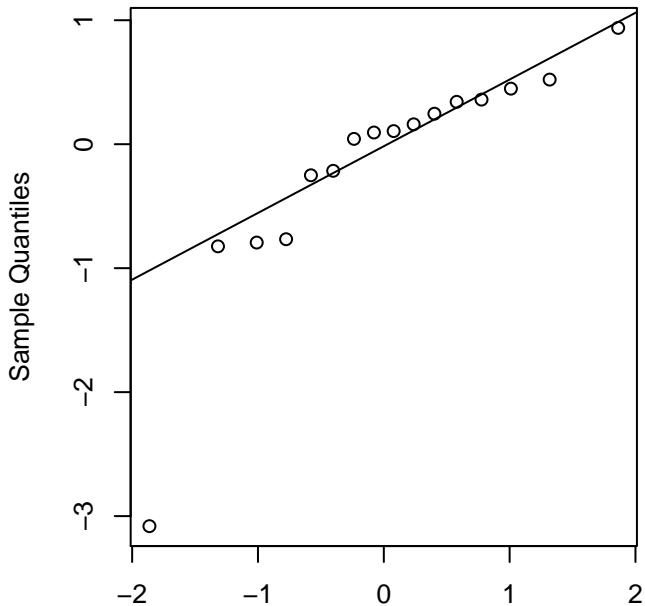


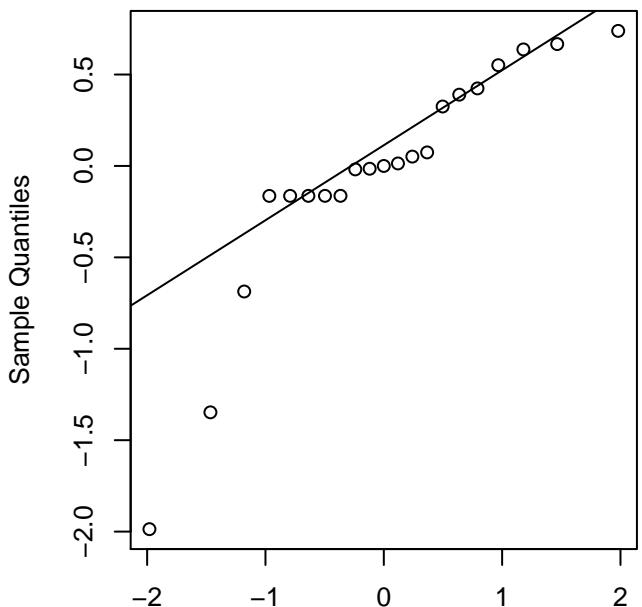
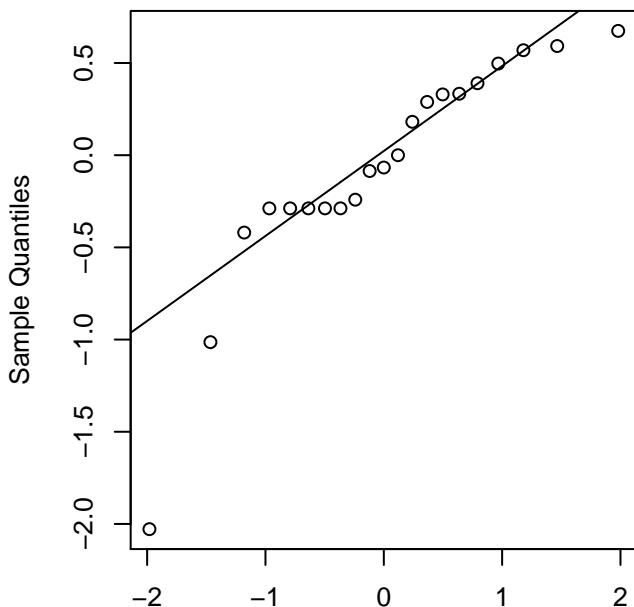
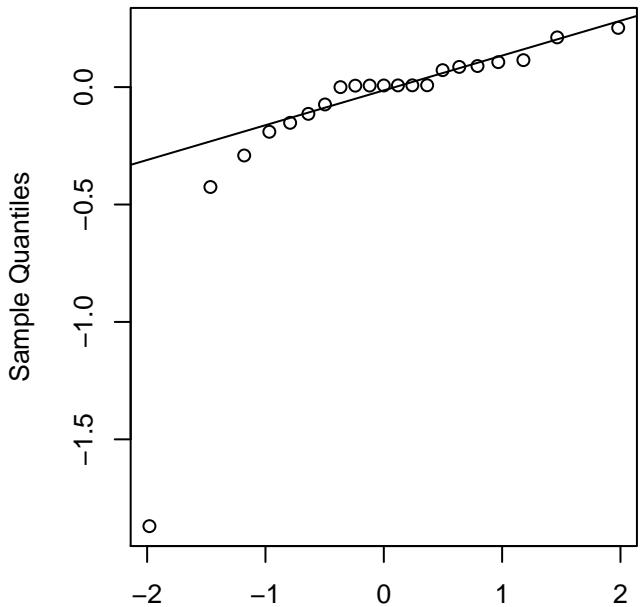
State X.EBays

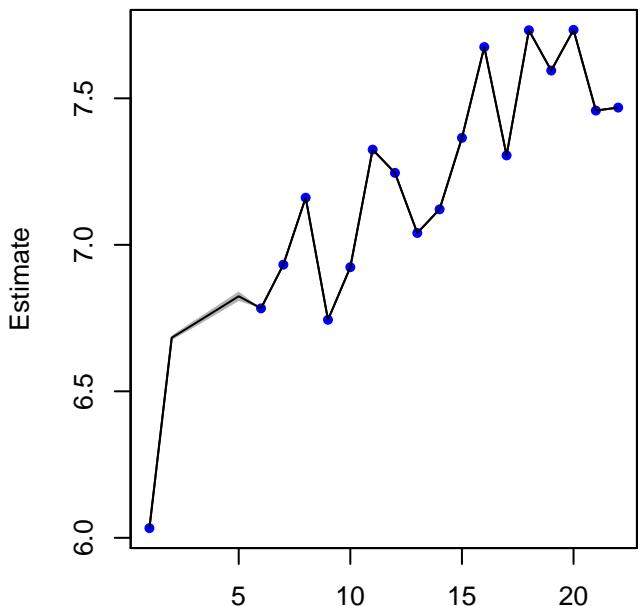
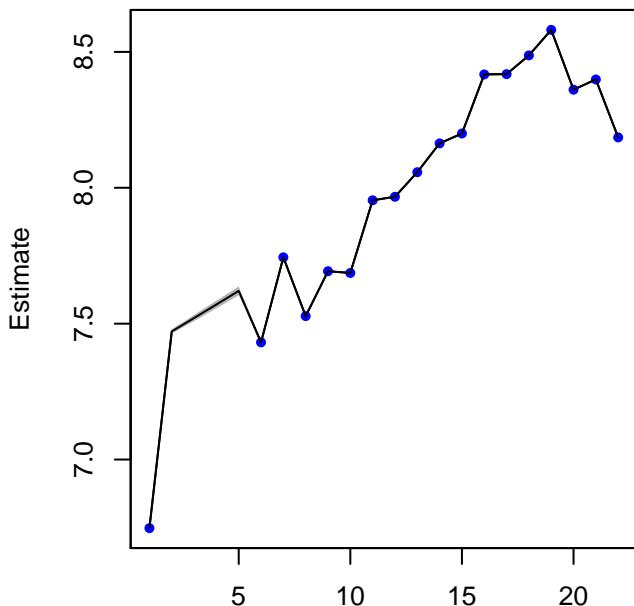
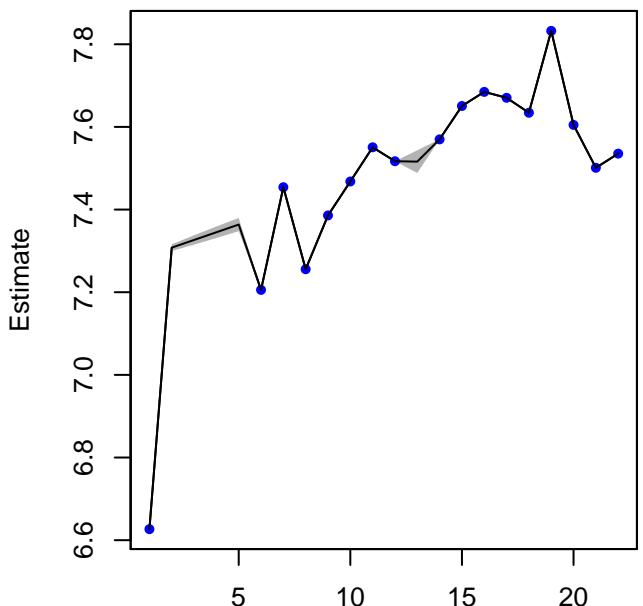


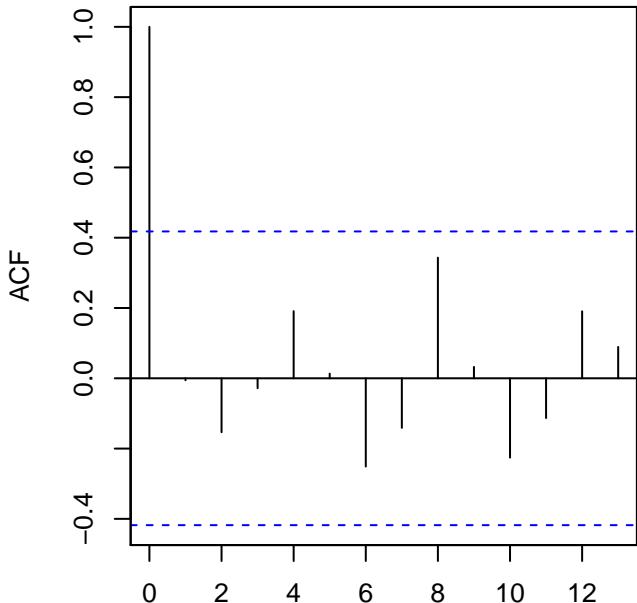
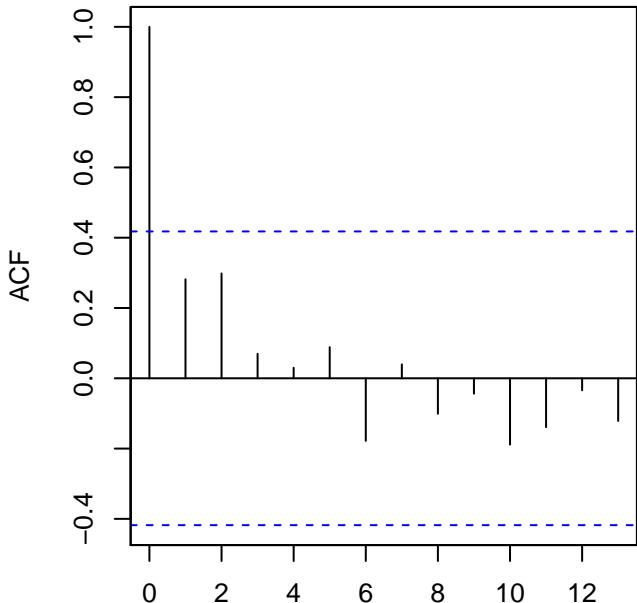
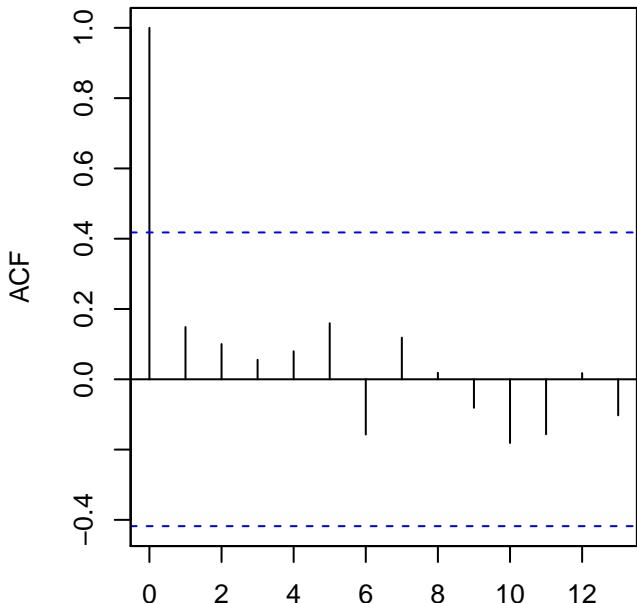
SJFObservation residuals, $y - E[y]$ **SJI****EBays**



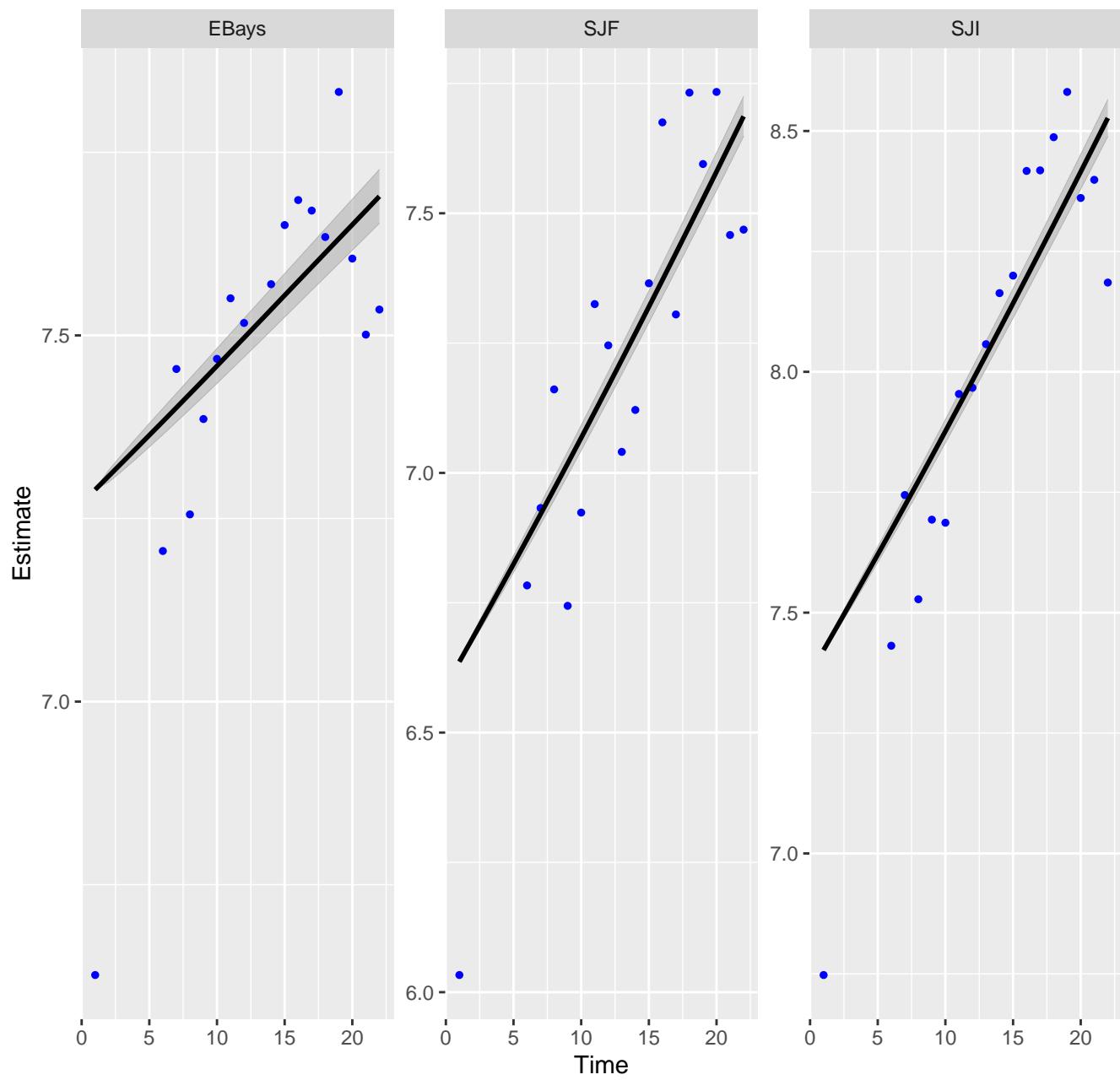
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

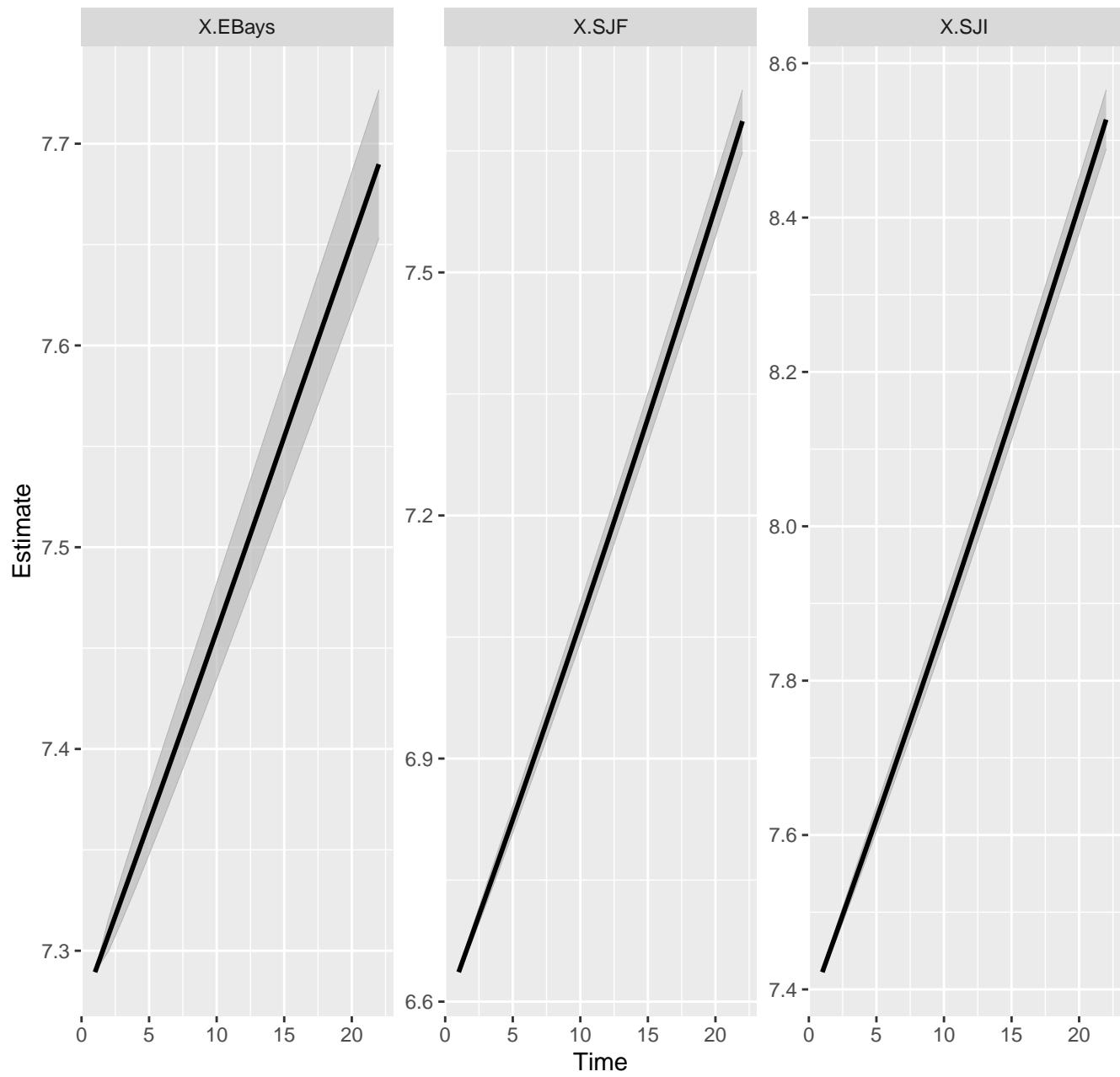
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

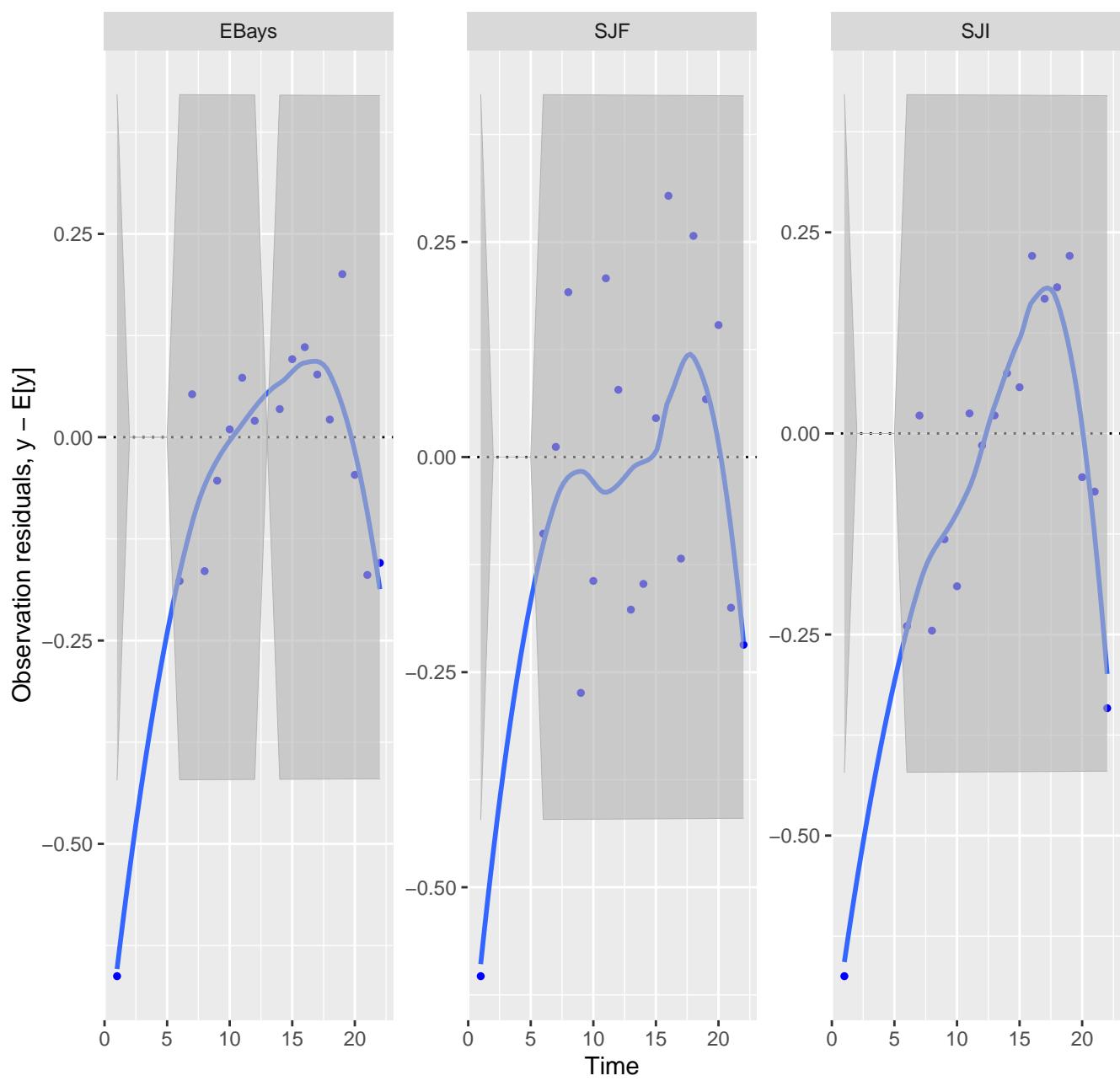
Model fitted Y + CI



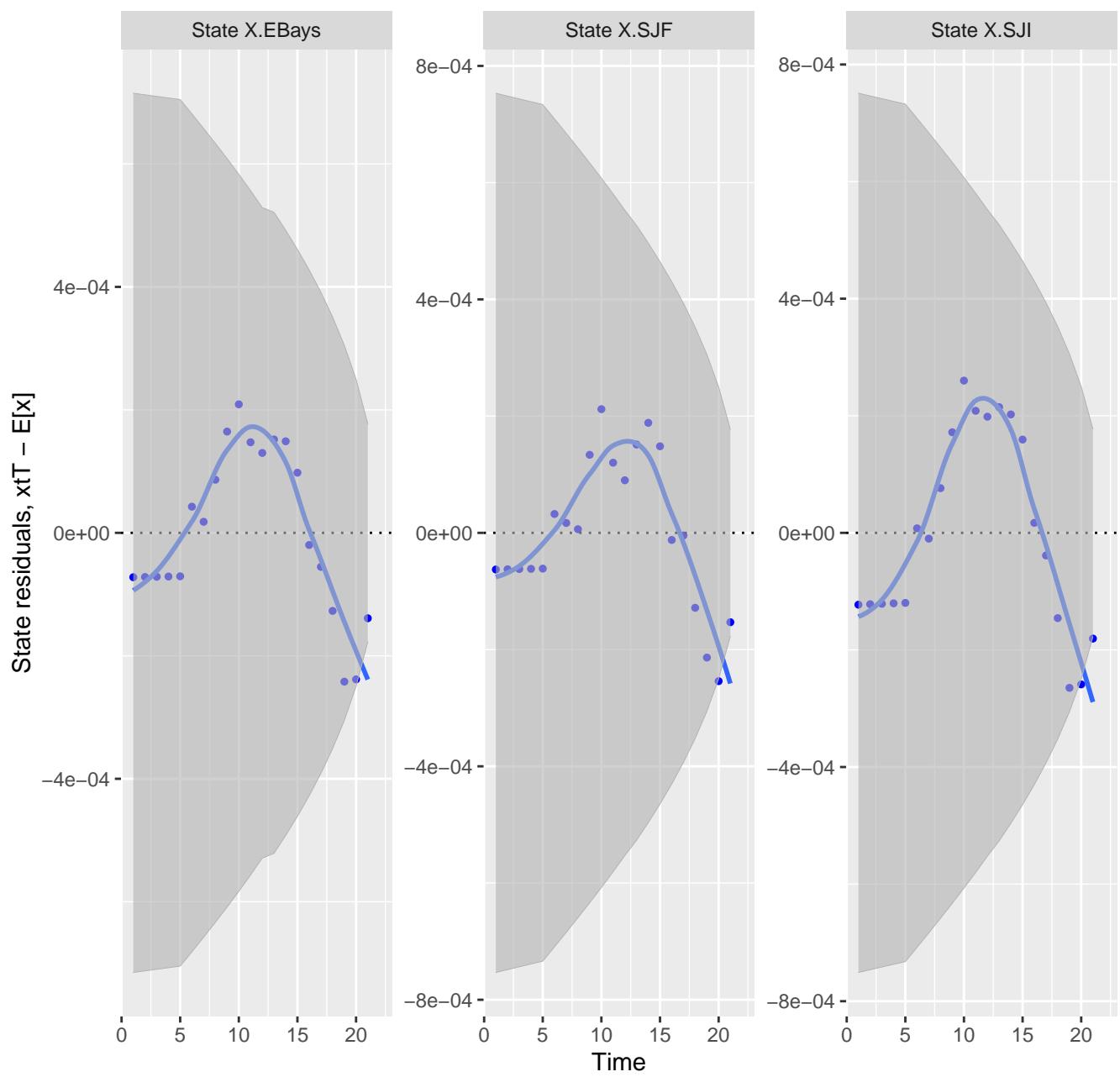
States



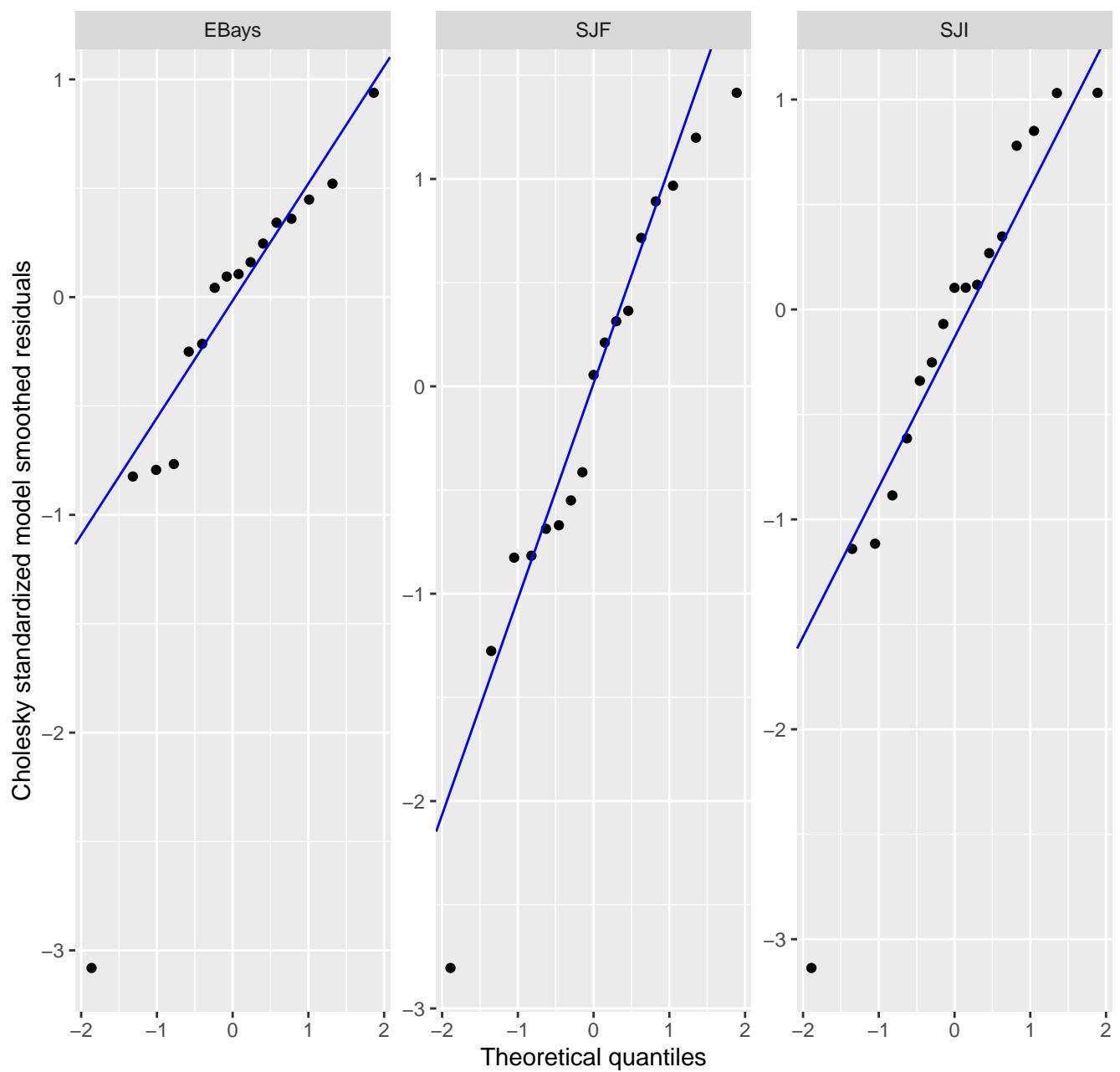
Model residuals



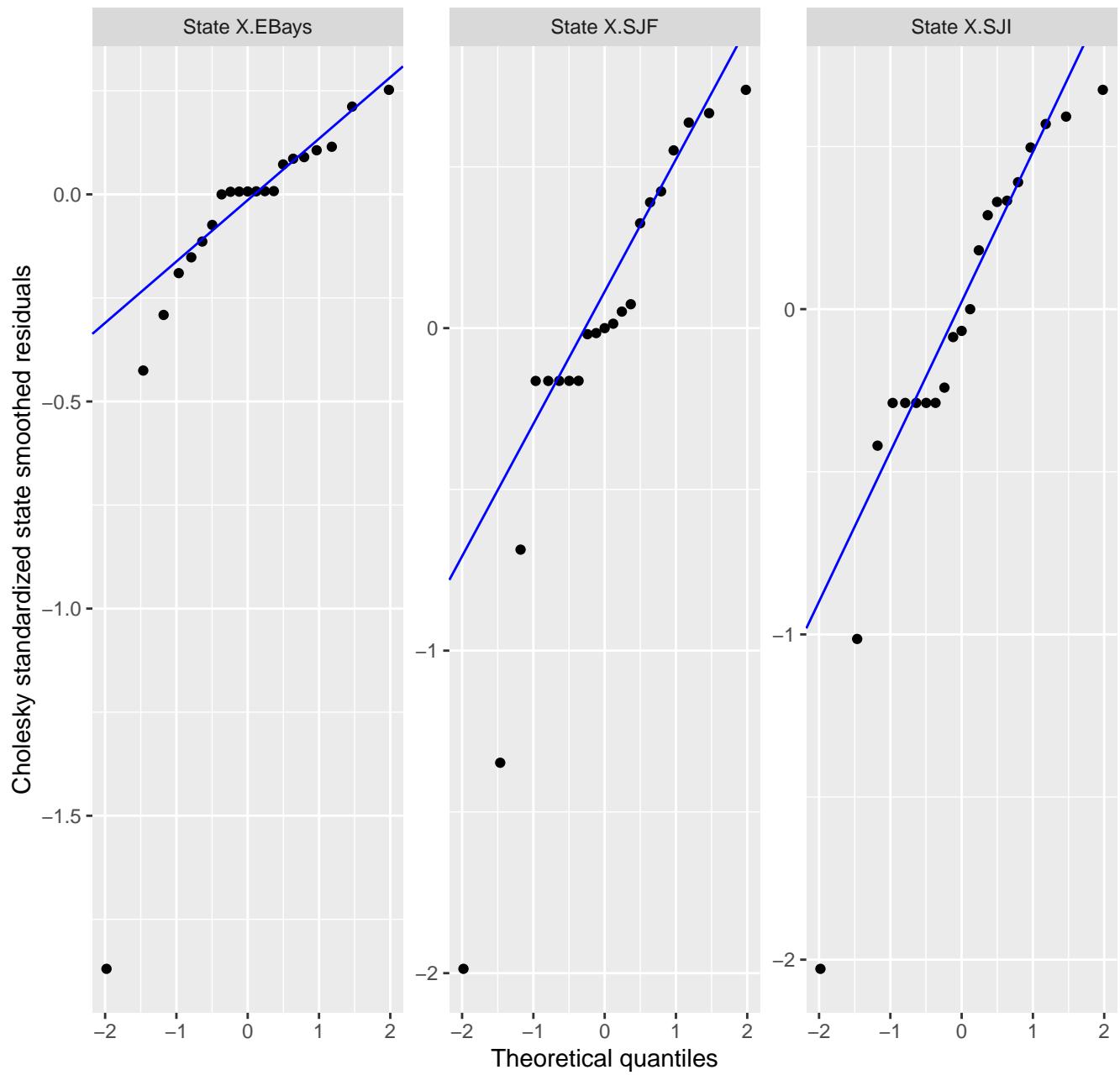
State residuals



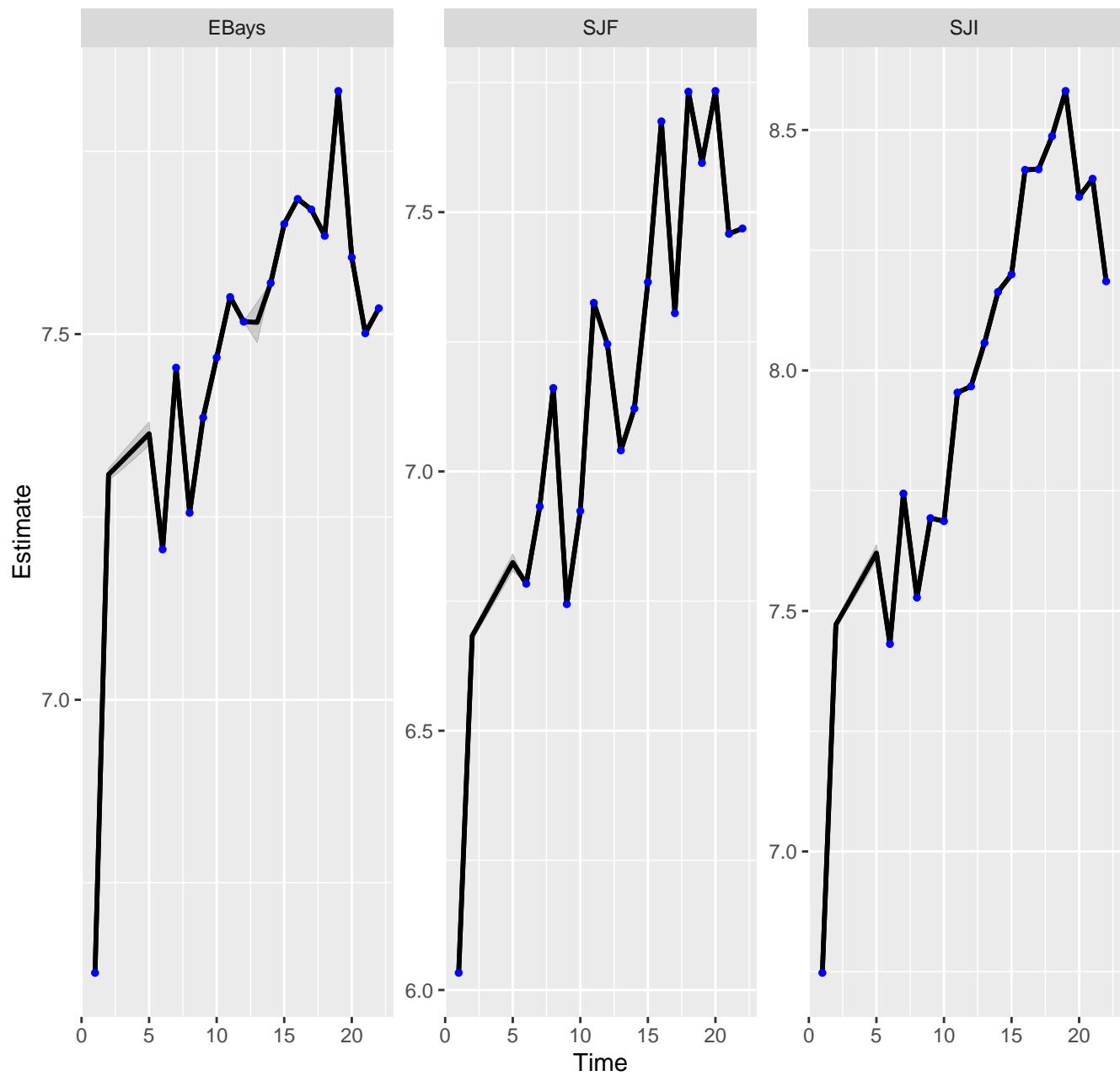
Model residuals normality test



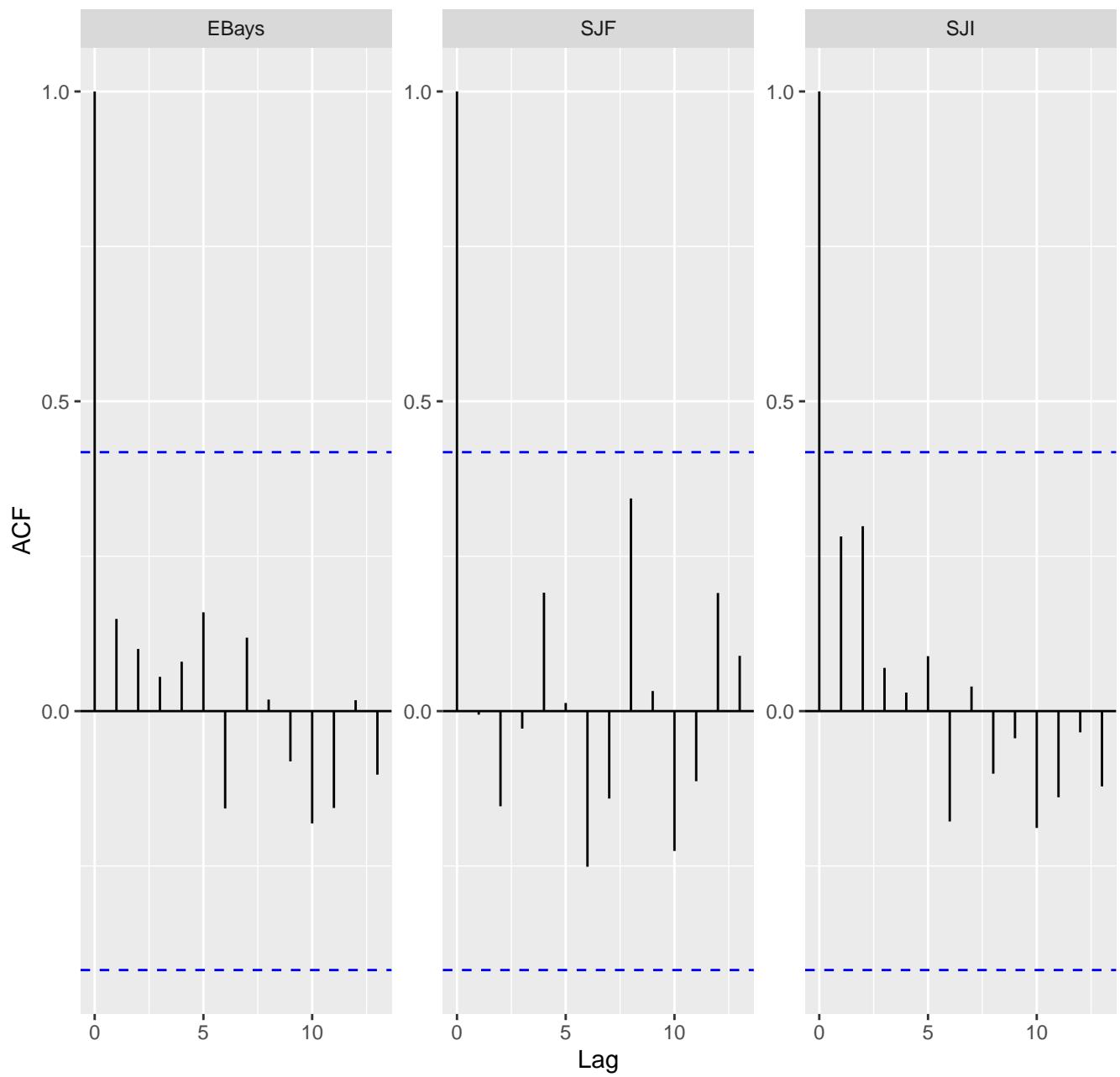
State residuals normality test

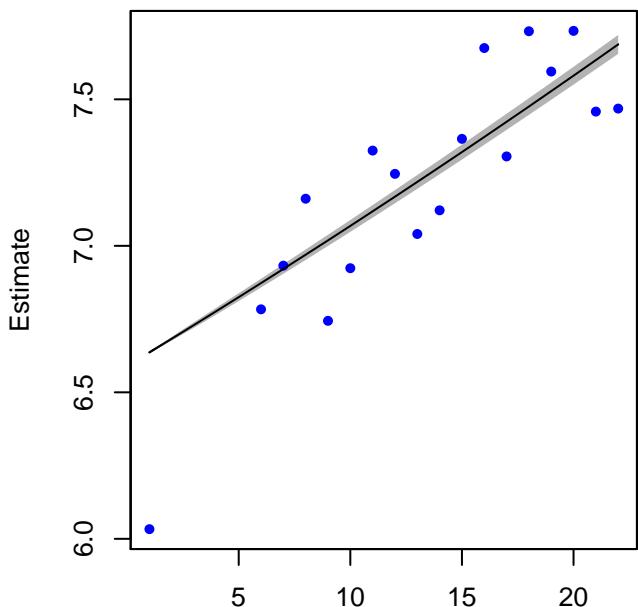
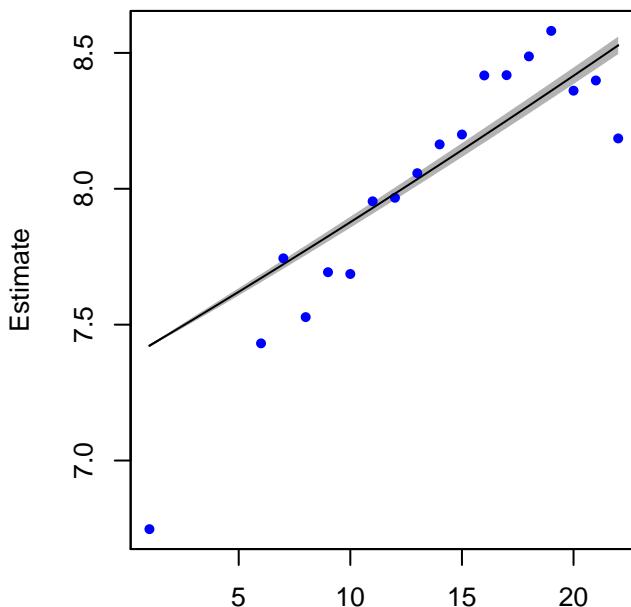
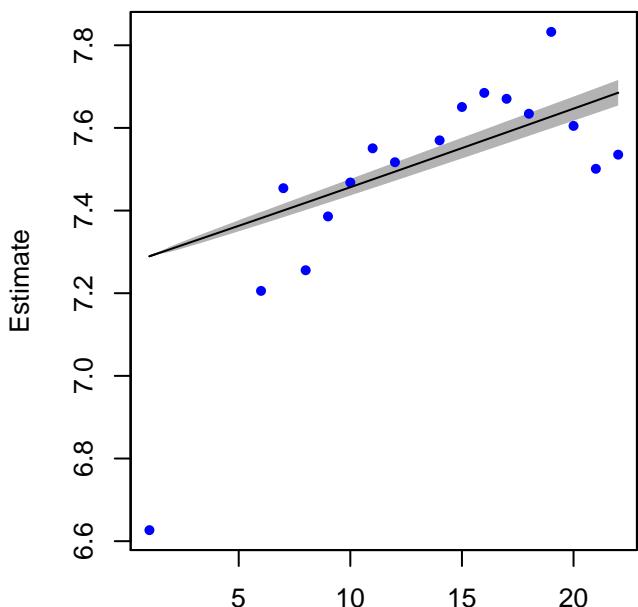


Expected value of Y conditioned on data

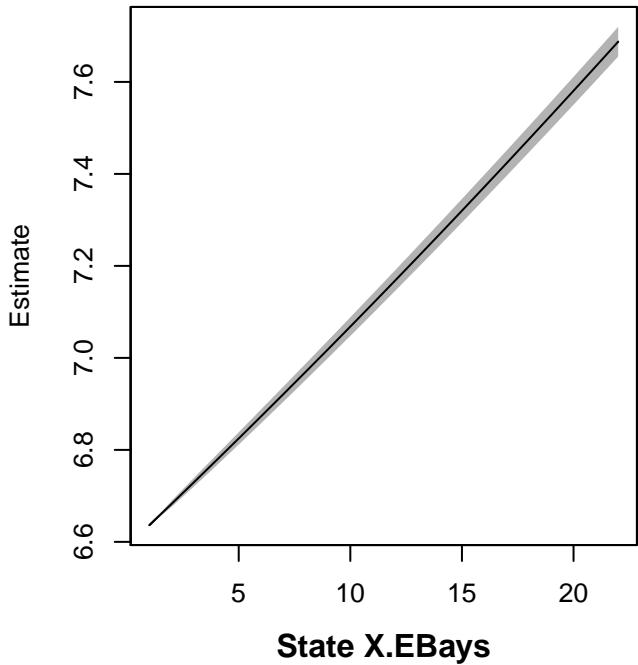


Model innovations residuals ACF

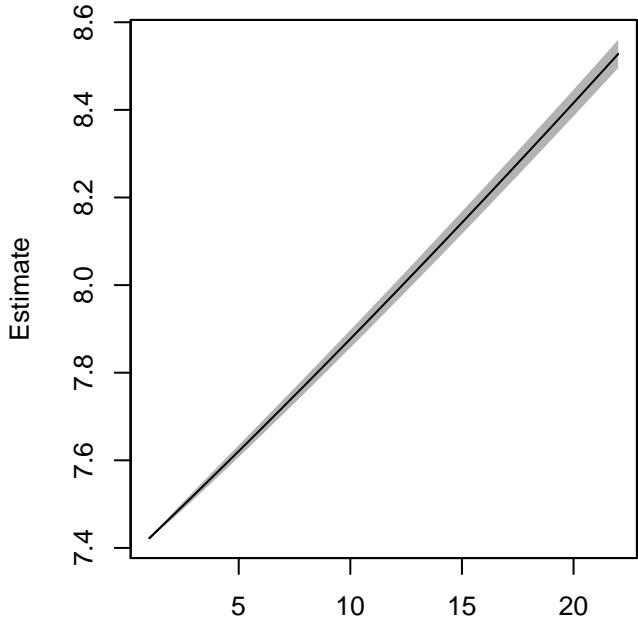


SJF + CI**SJI + CI****EBays + CI**

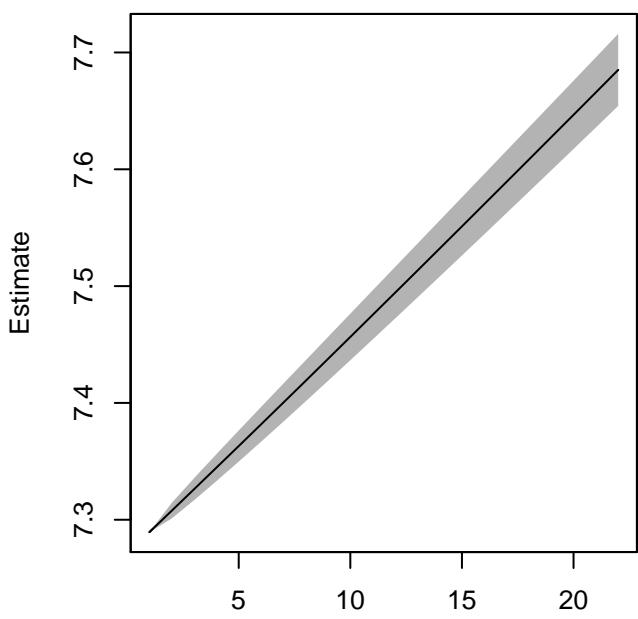
State X.SJF

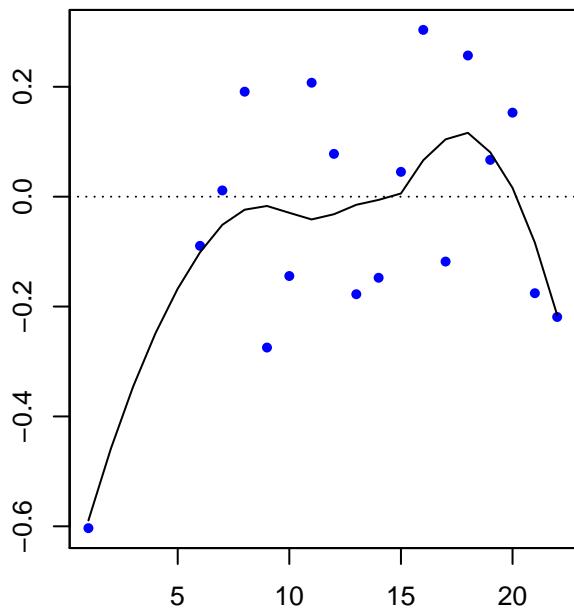
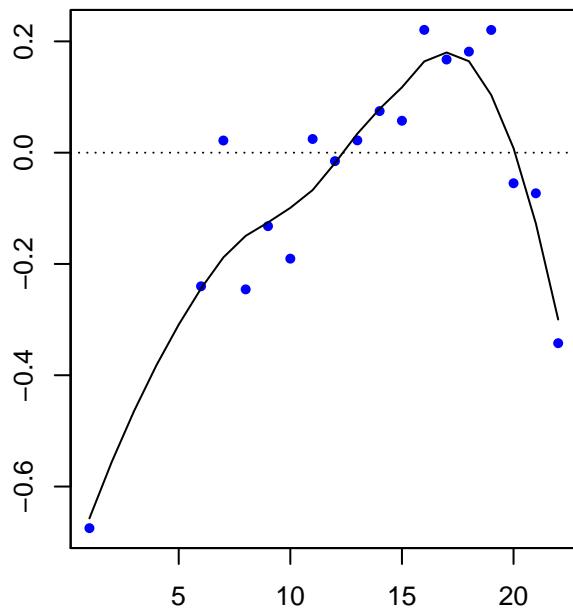
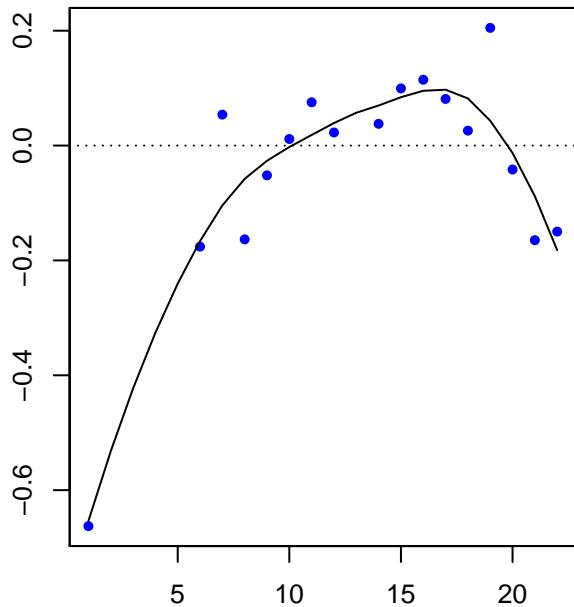


State X.SJI



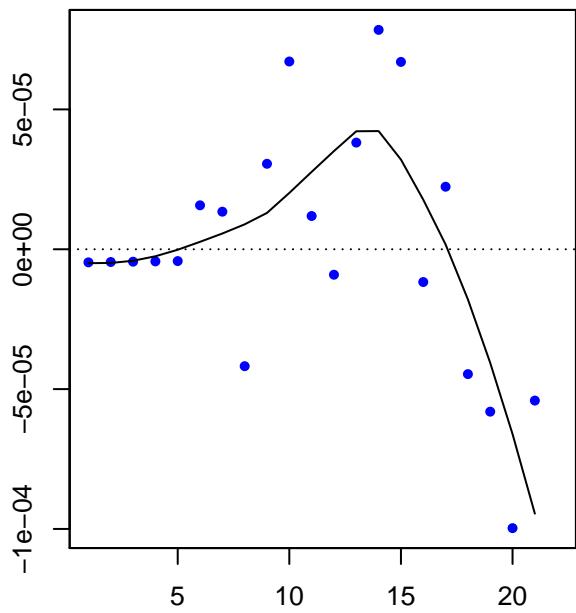
State X.EBays



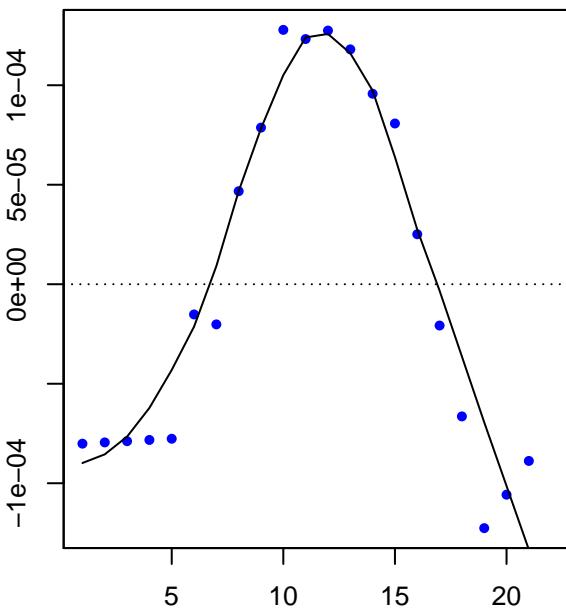
SJFObservation residuals, $y - E[y]$ **SJI****EBays**

State residuals, $x_{tT} - E[x]$

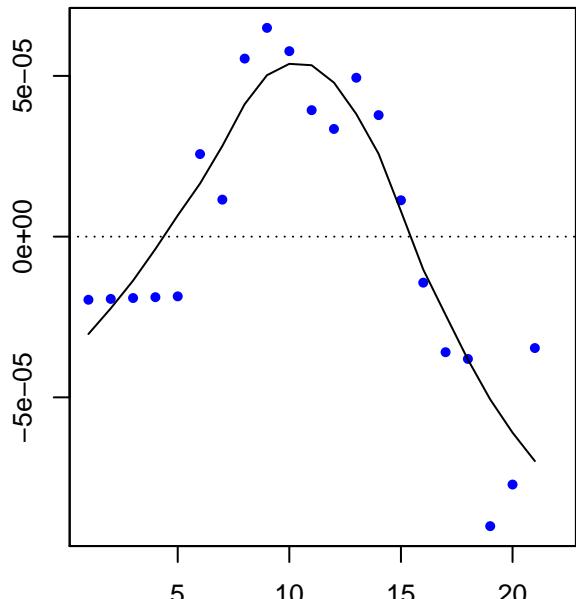
State X.SJF

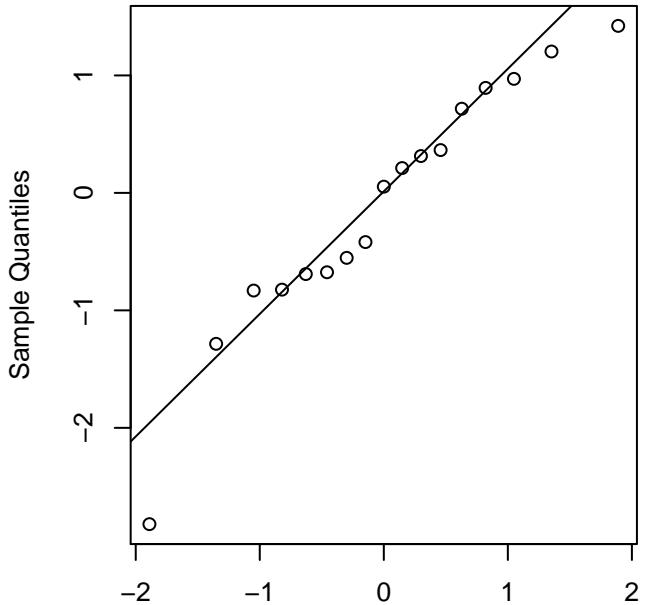
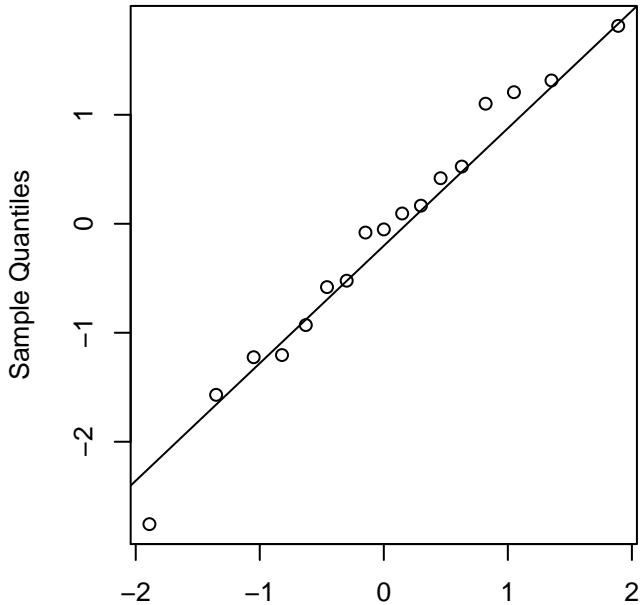
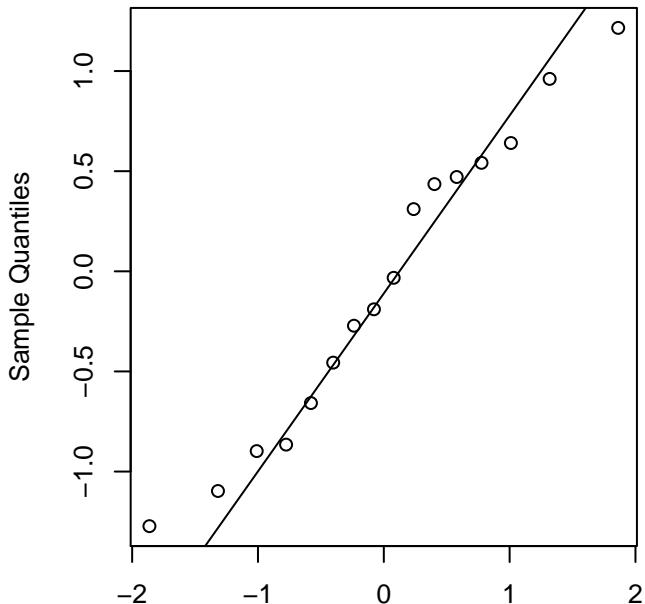


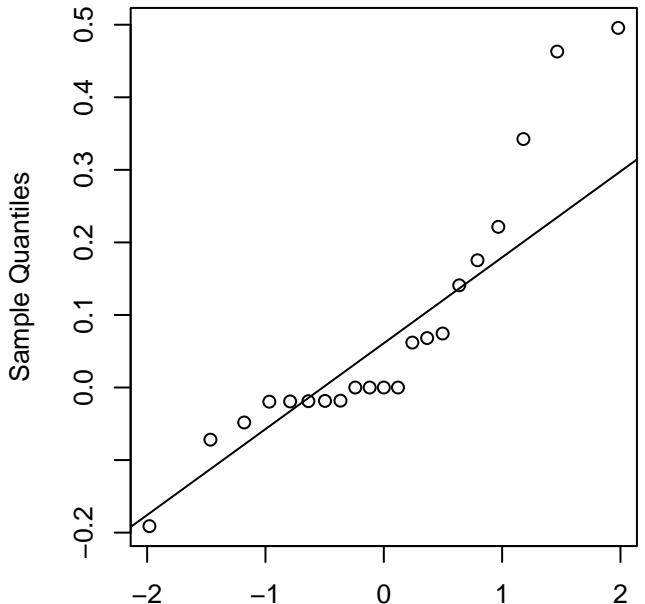
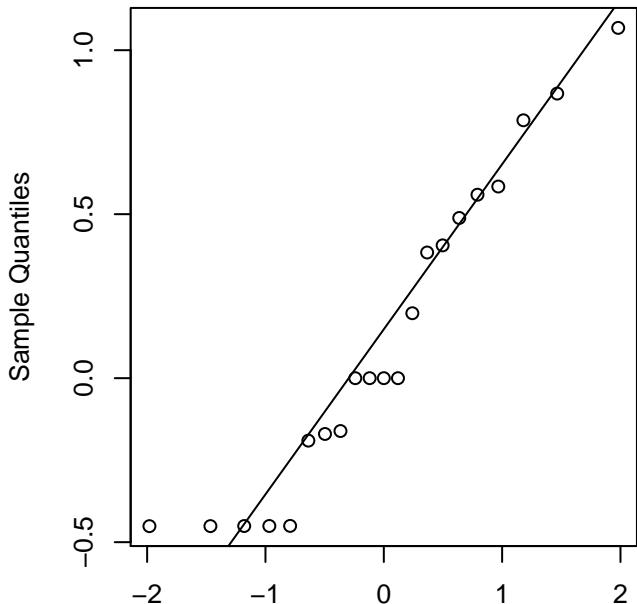
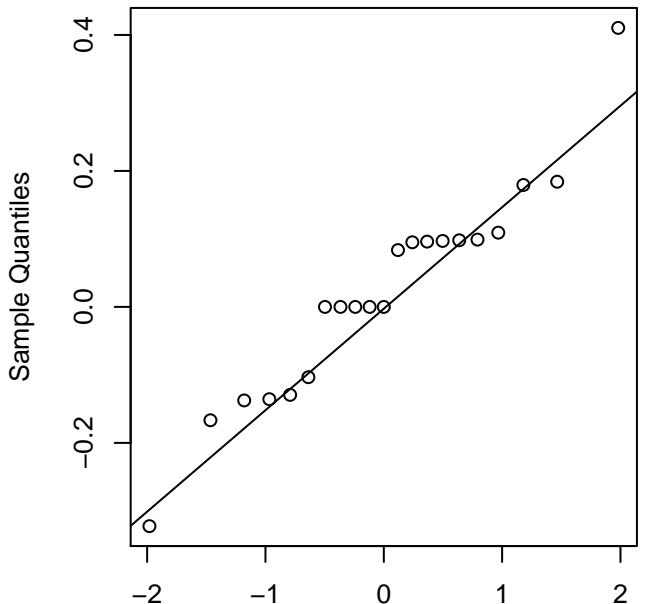
State X.SJI

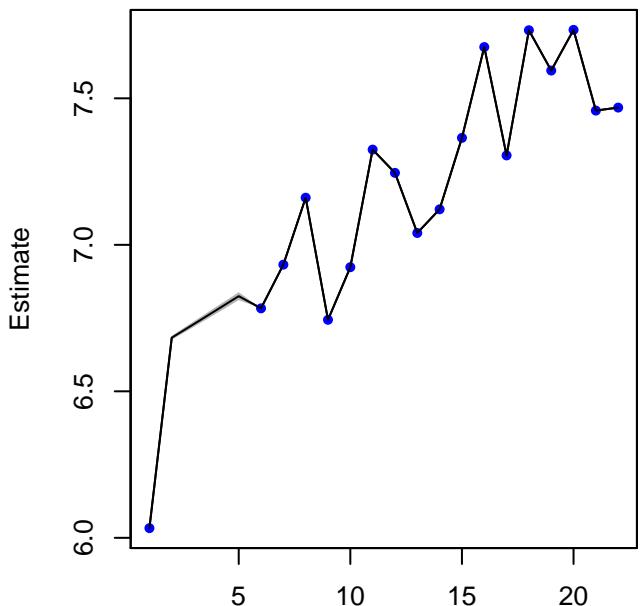
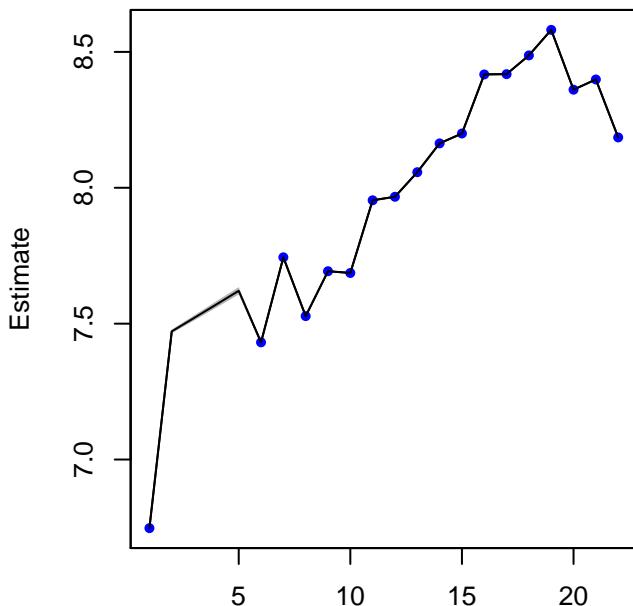
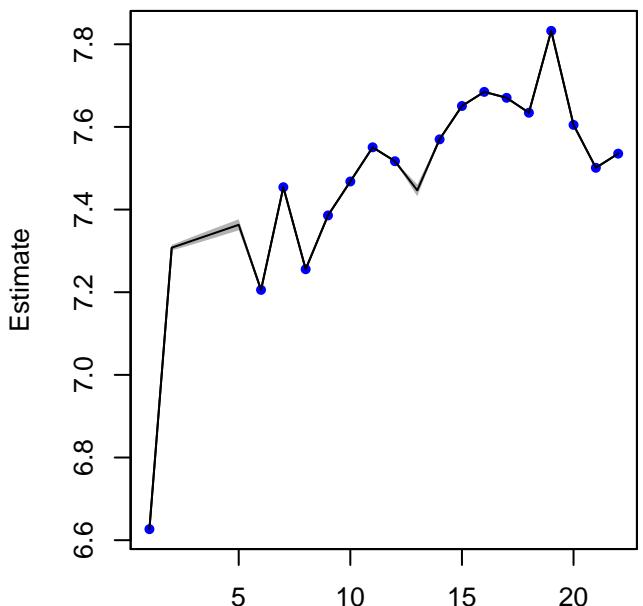


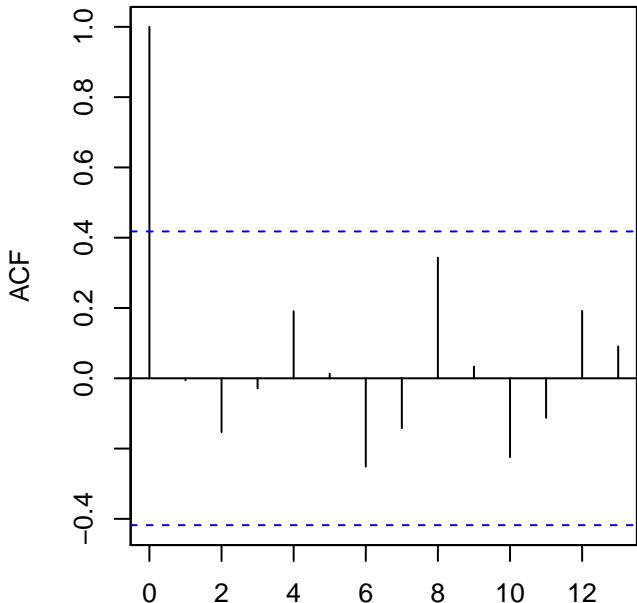
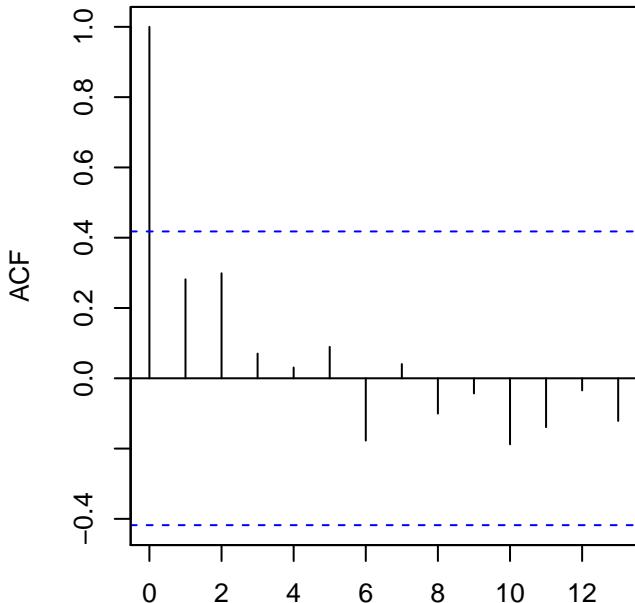
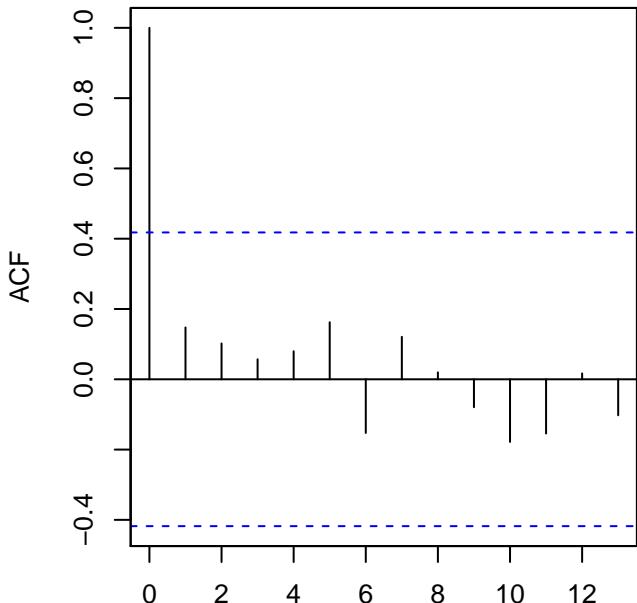
State X.EBays



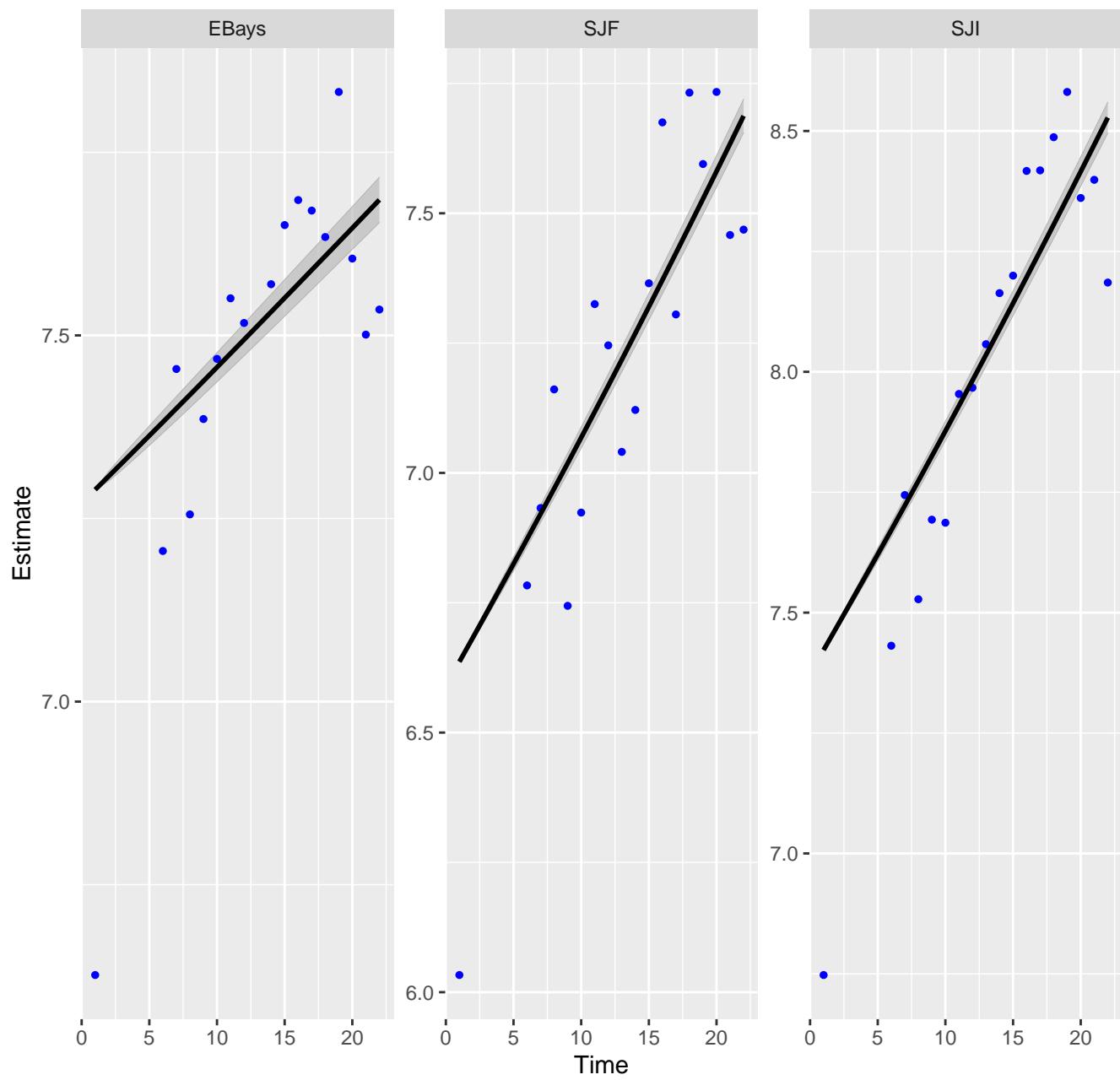
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

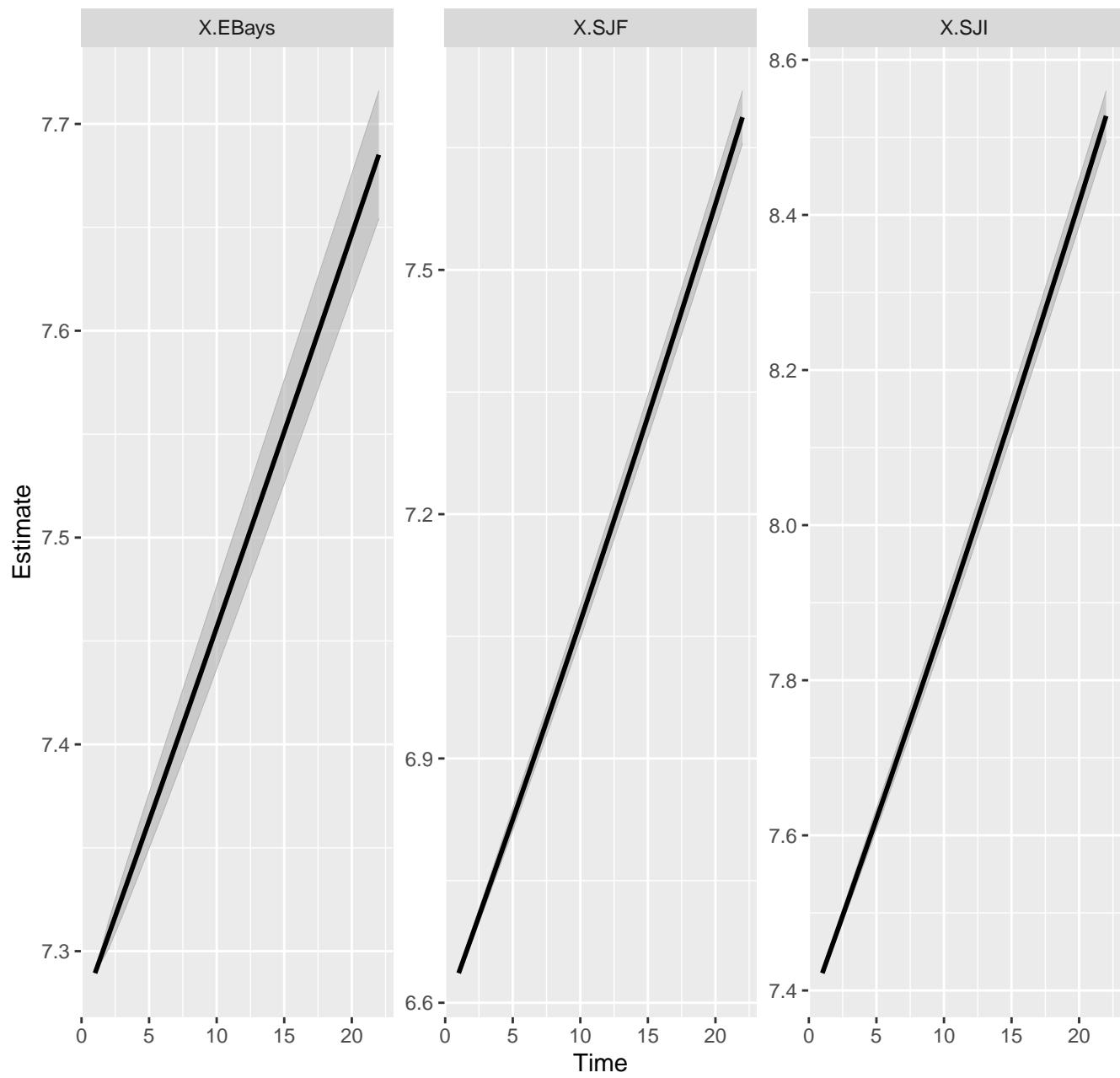
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

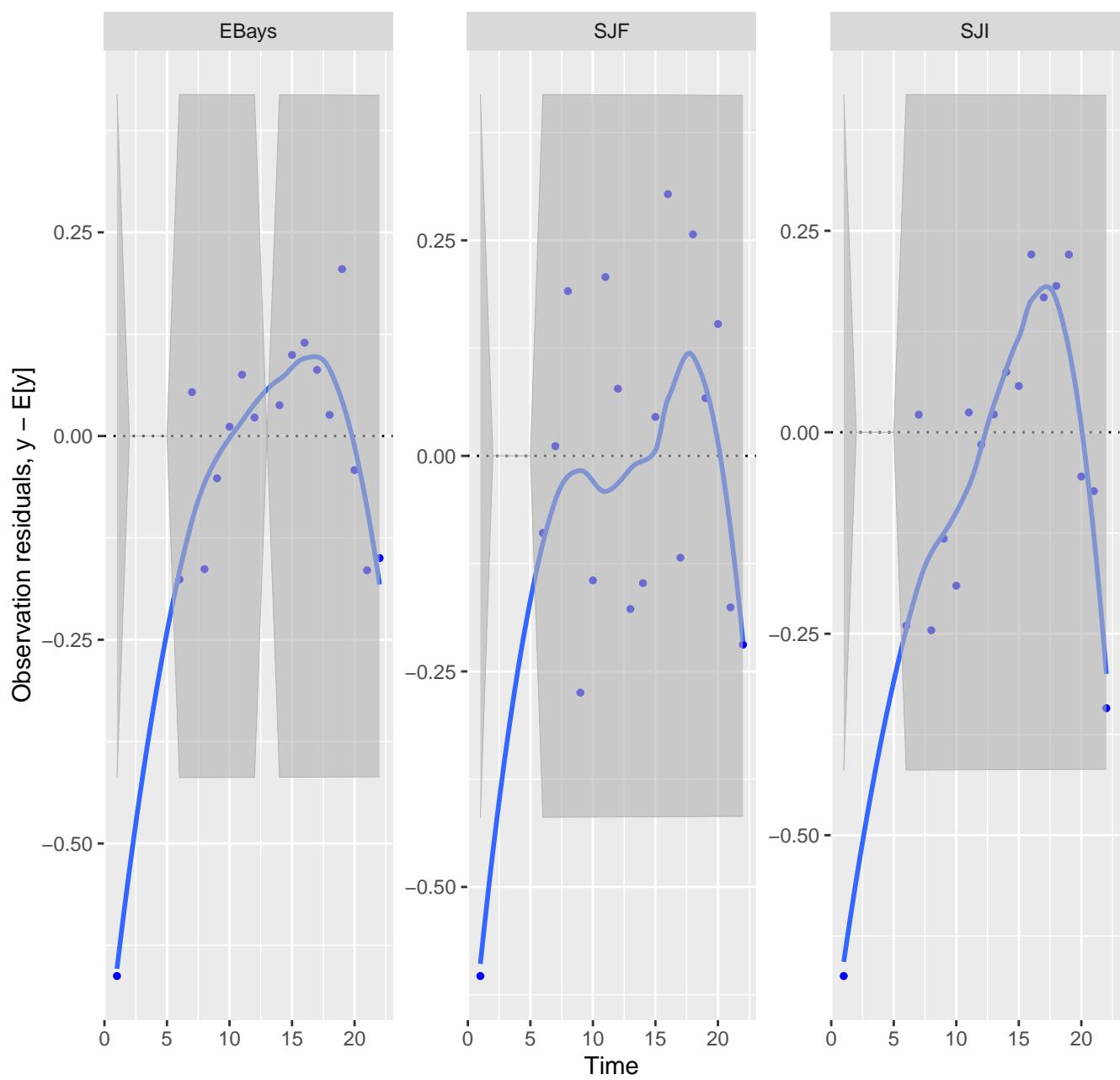
Model fitted Y + CI



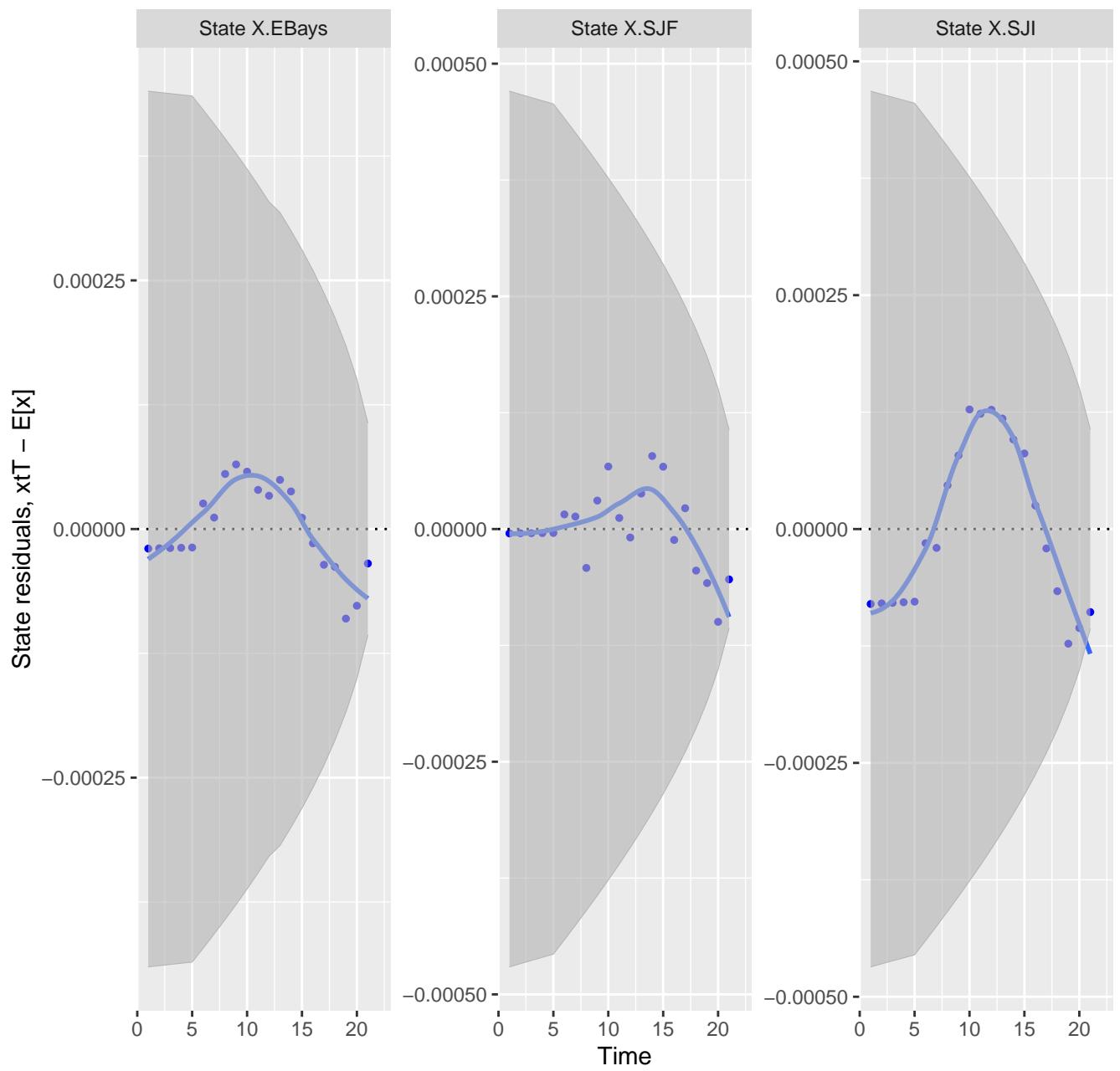
States



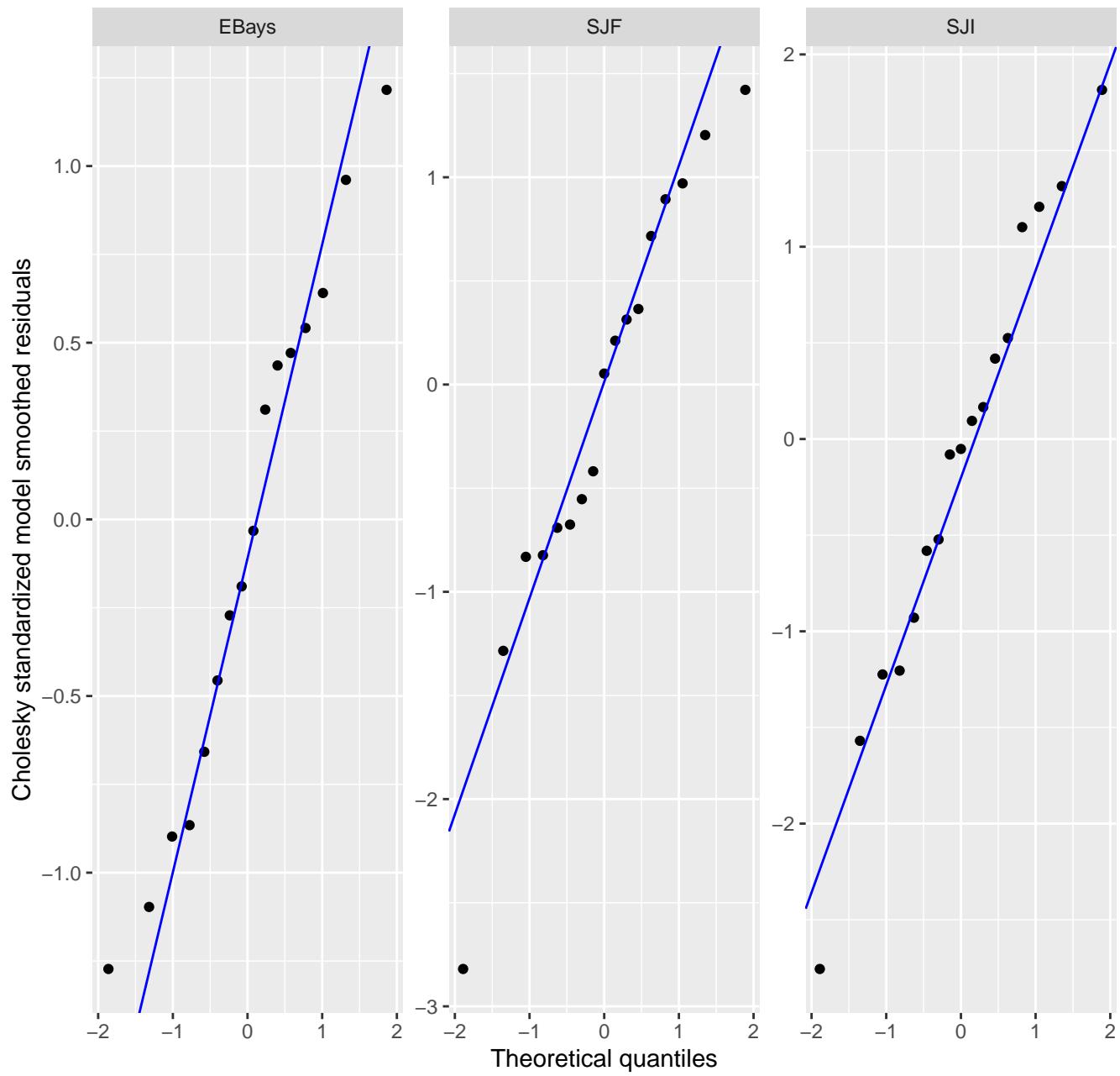
Model residuals



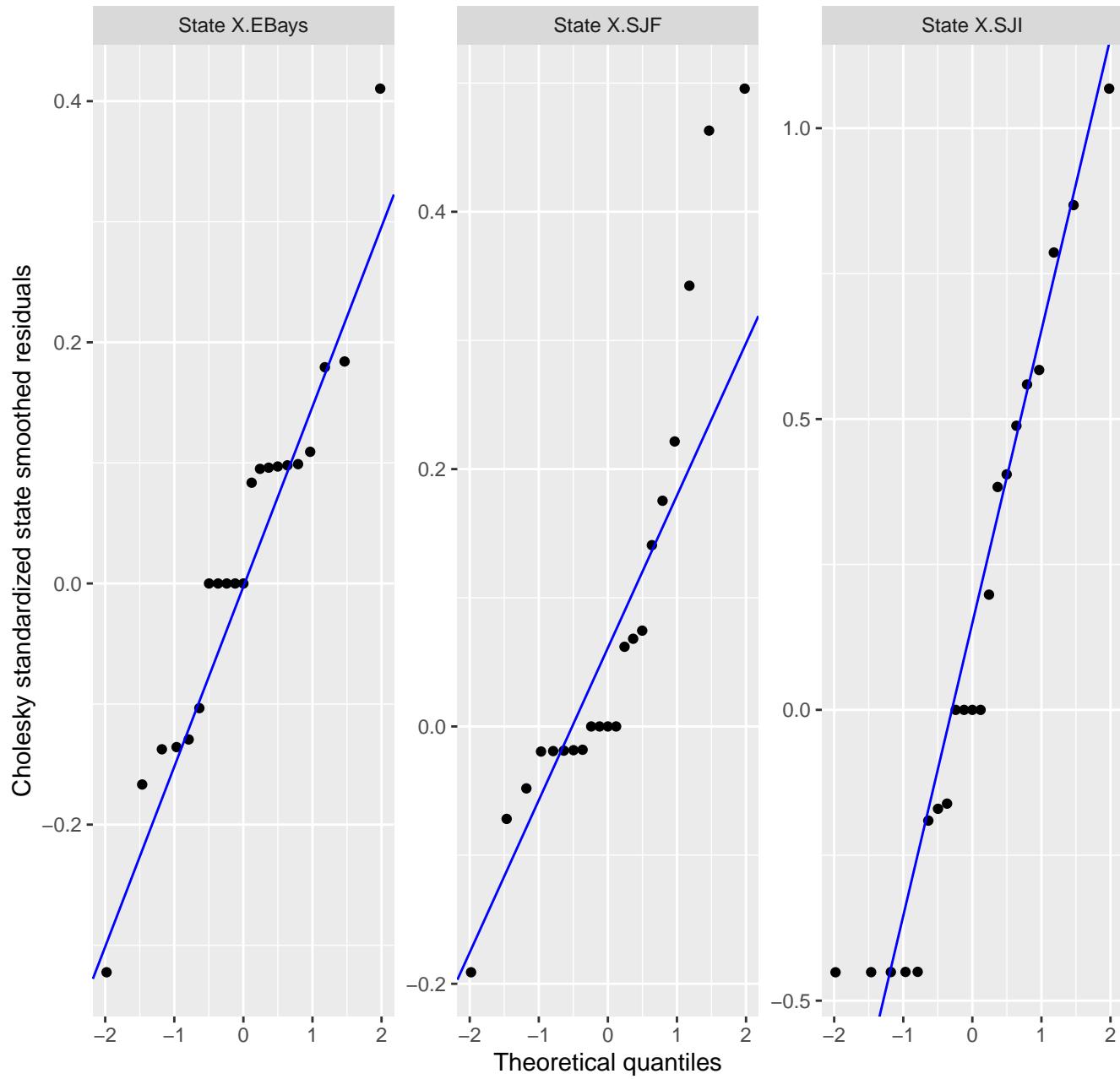
State residuals



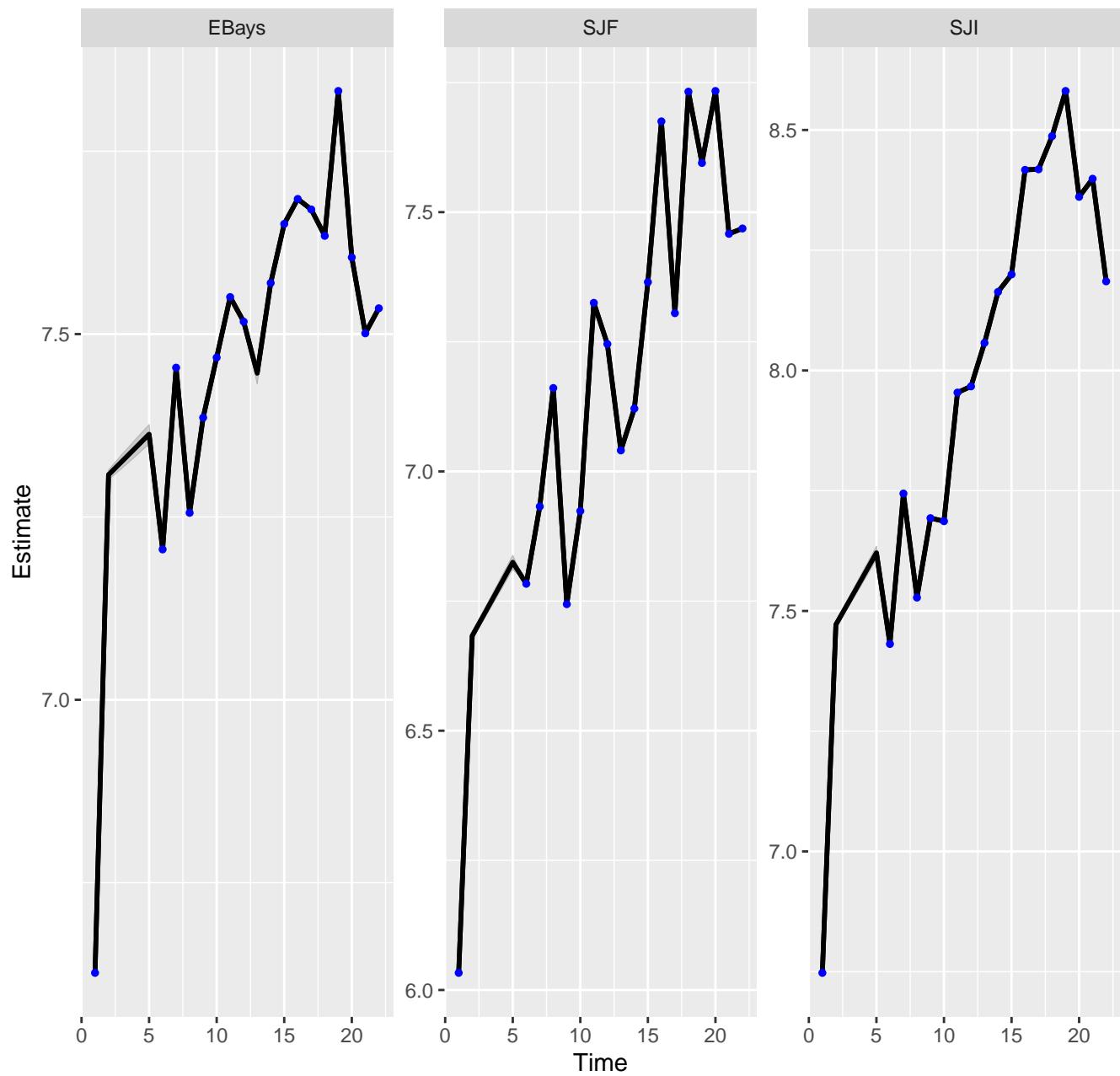
Model residuals normality test



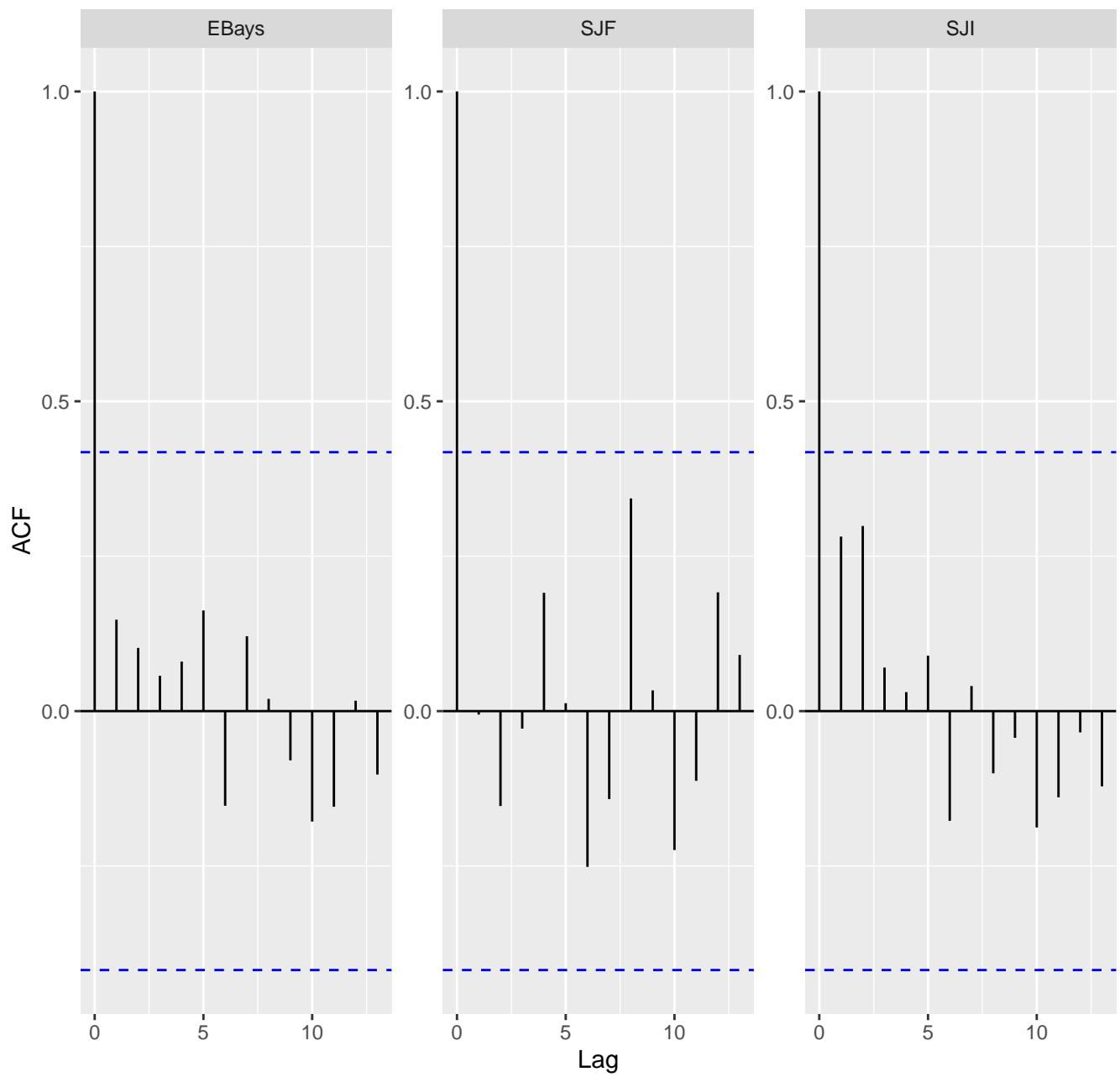
State residuals normality test

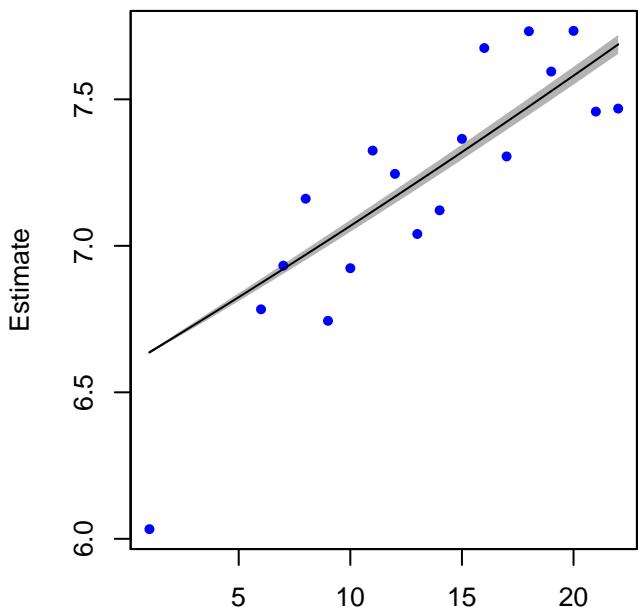
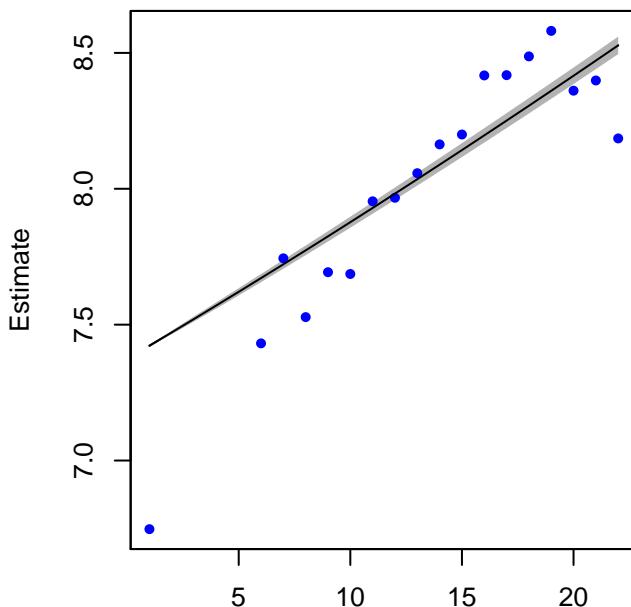
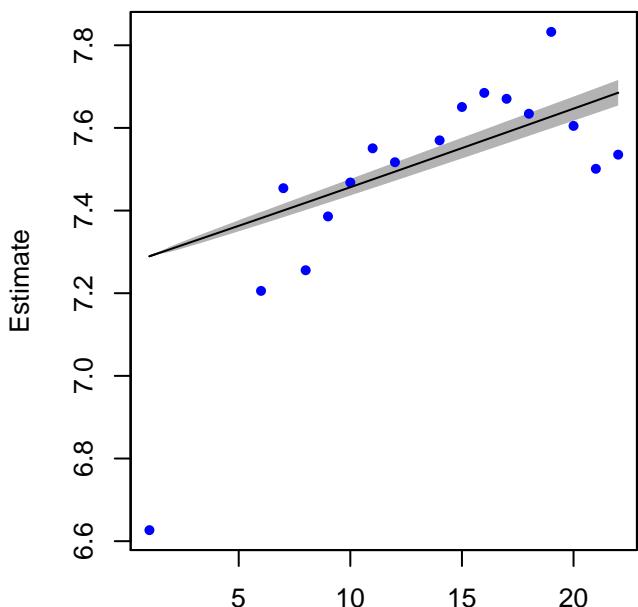


Expected value of Y conditioned on data

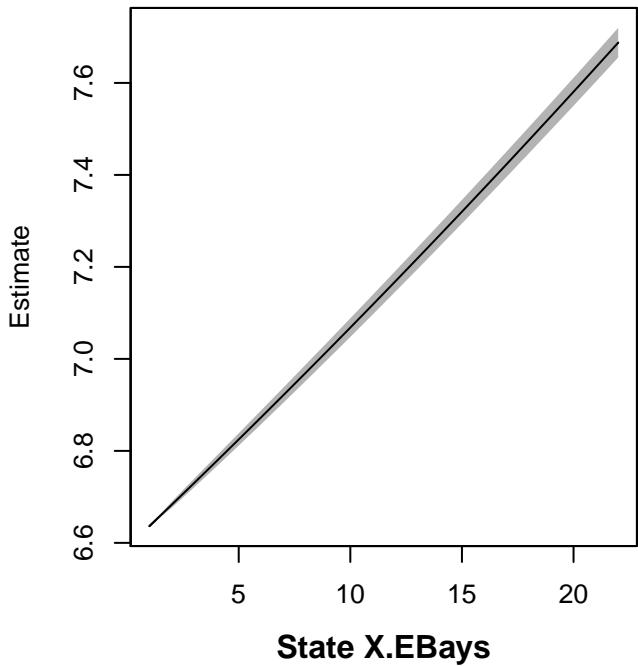


Model innovations residuals ACF

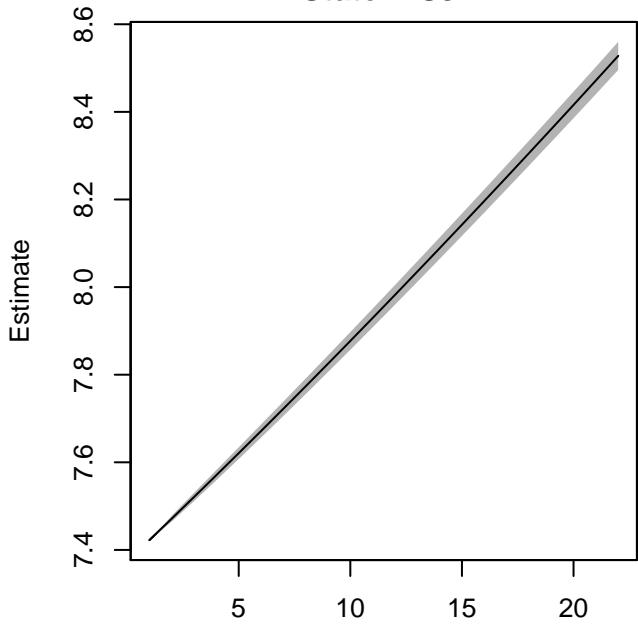


SJF + CI**SJI + CI****EBays + CI**

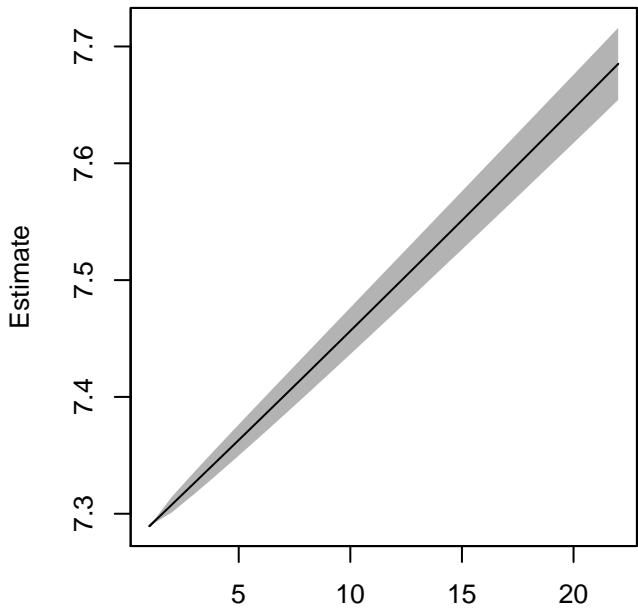
State X.SJF

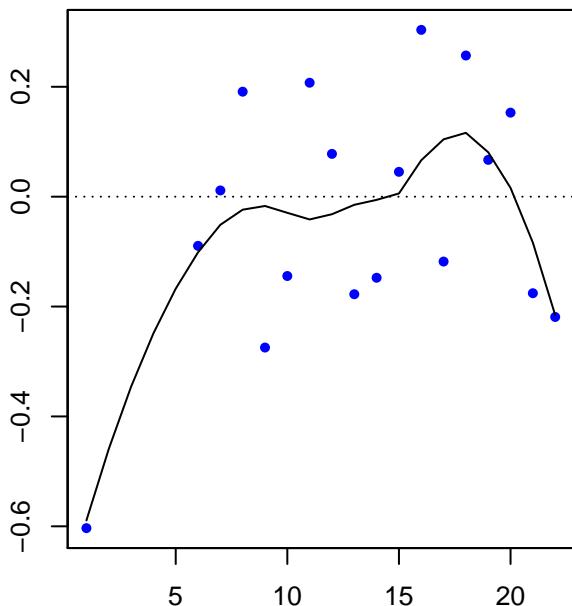
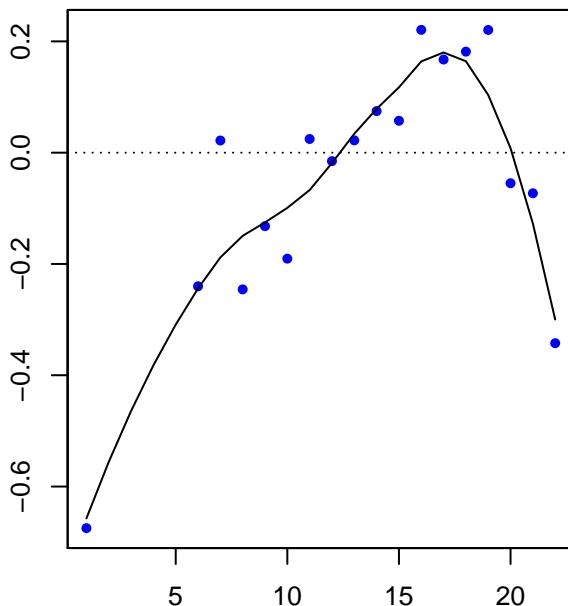
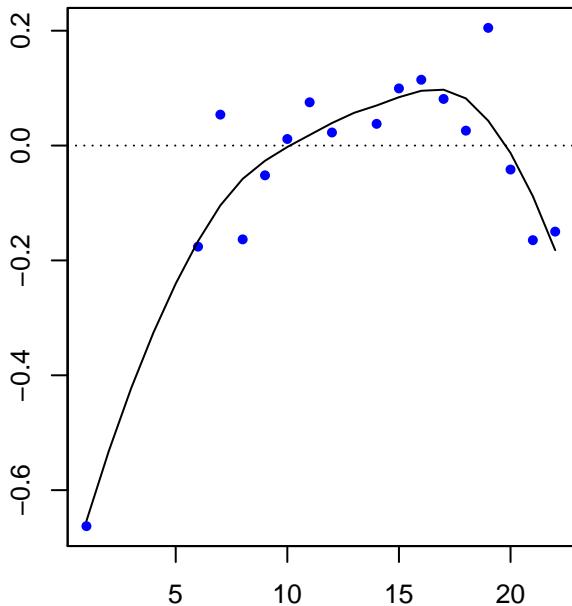


State X.SJI



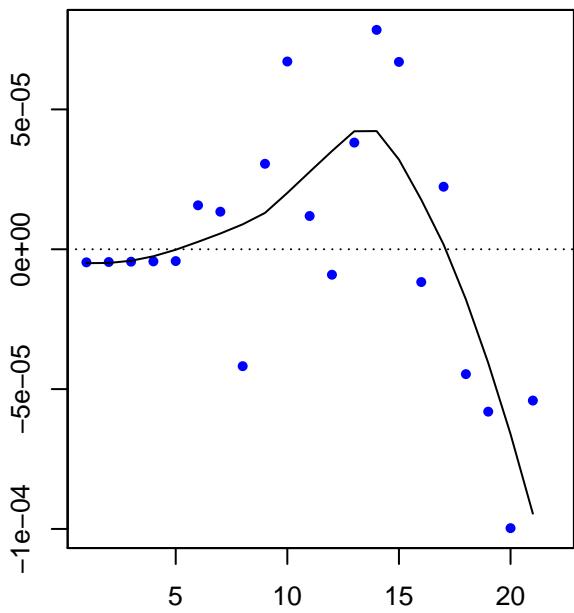
State X.EBays



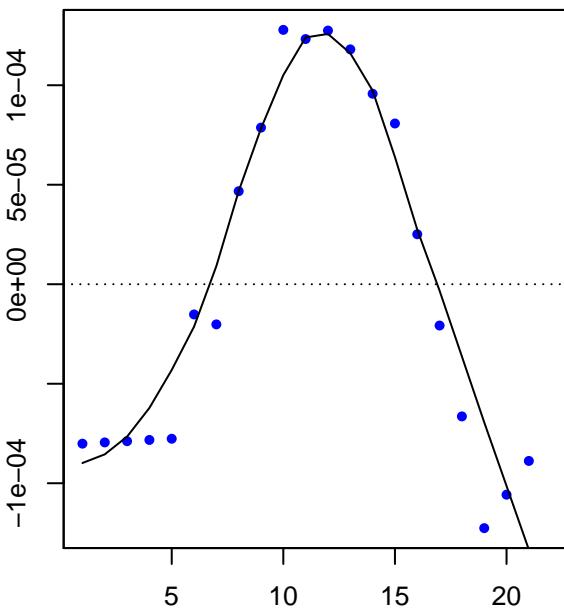
SJFObservation residuals, $y - E[y]$ **SJI****EBays**Observation residuals, $y - E[y]$ 

State residuals, $x_{tT} - E[x]$

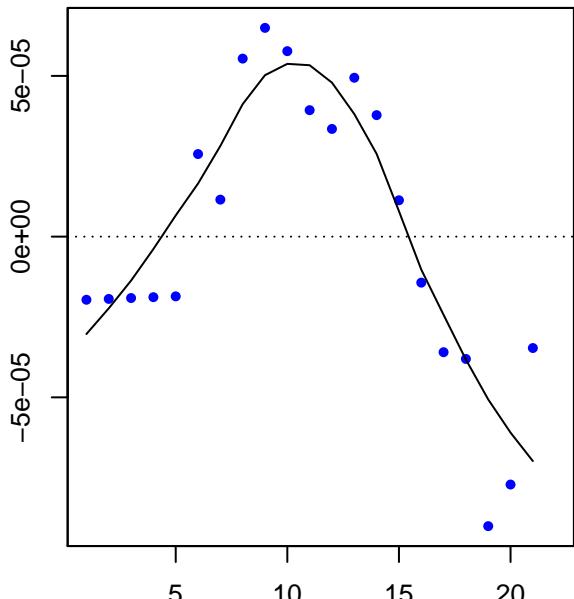
State X.SJF

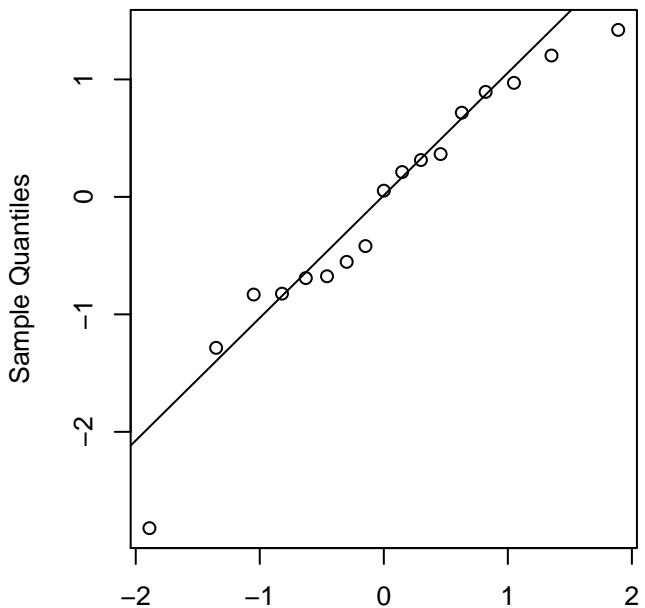
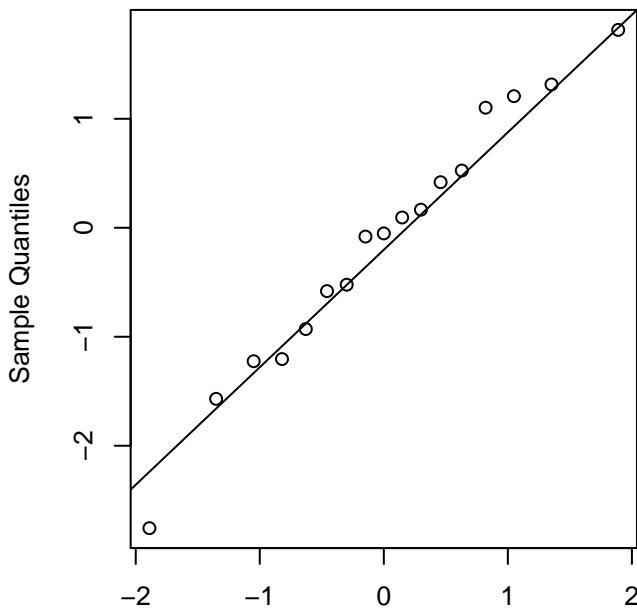
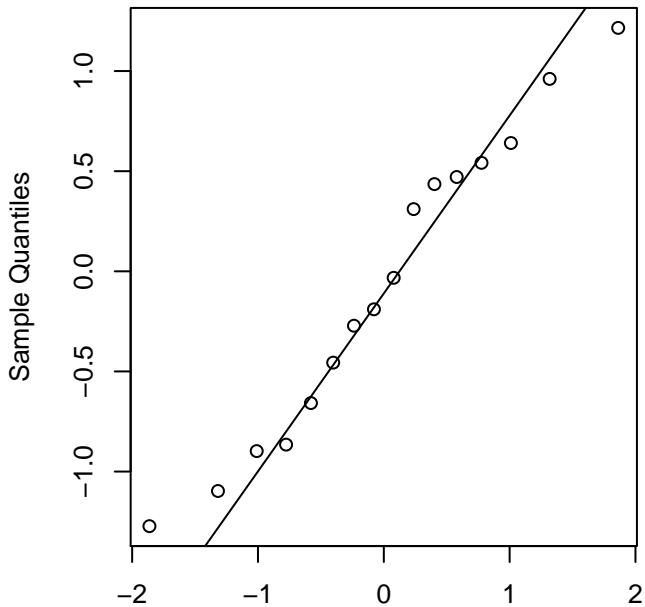


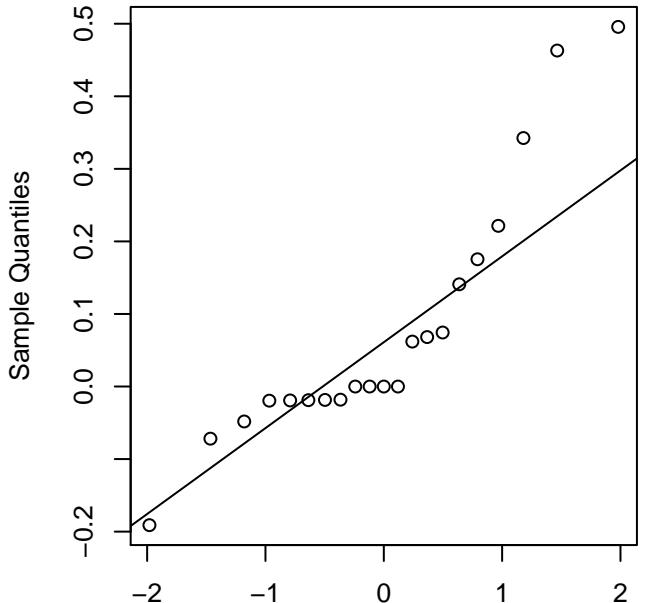
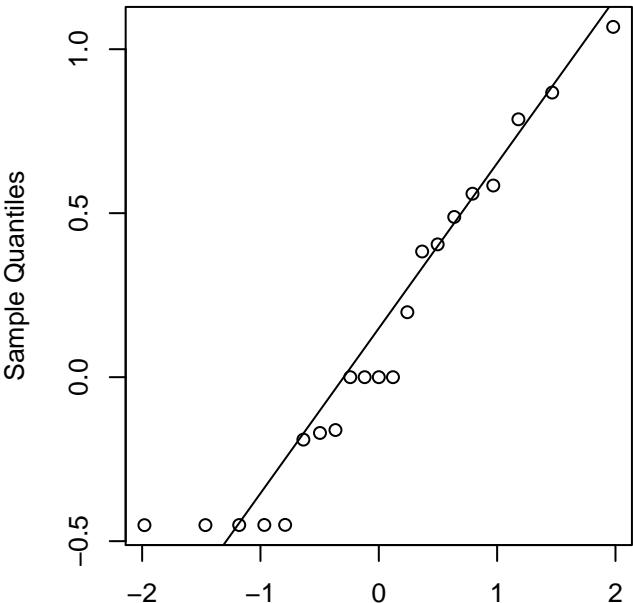
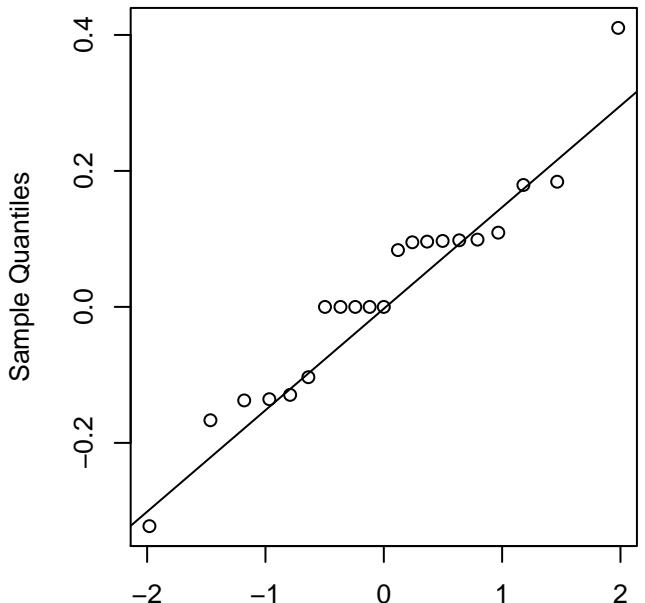
State X.SJI

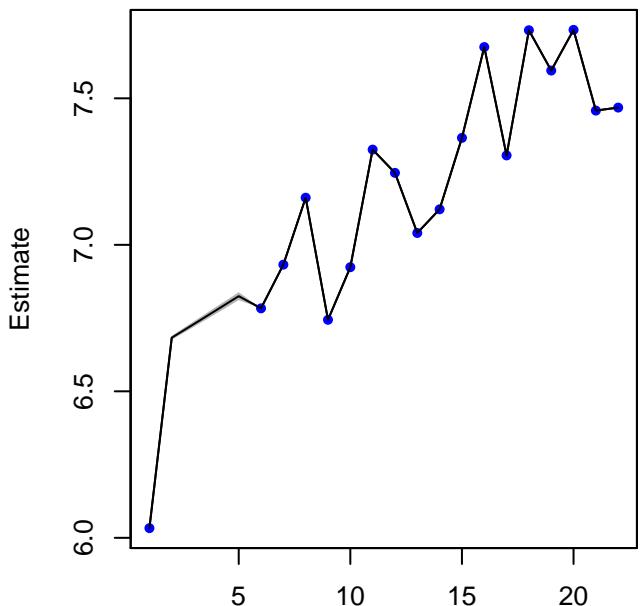
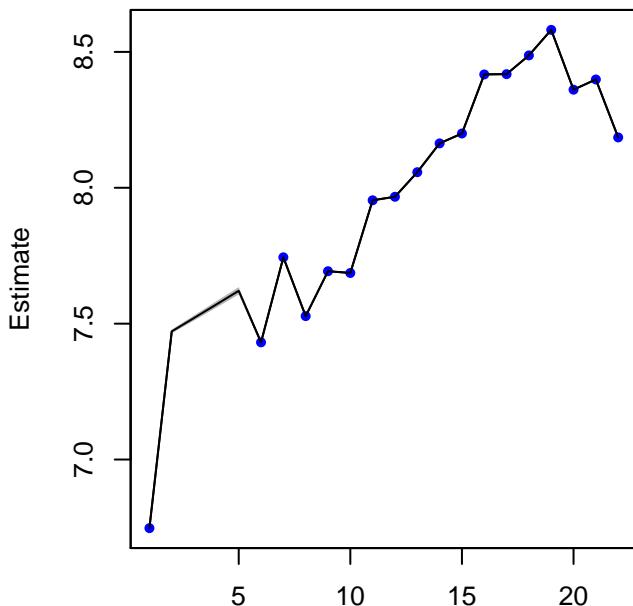
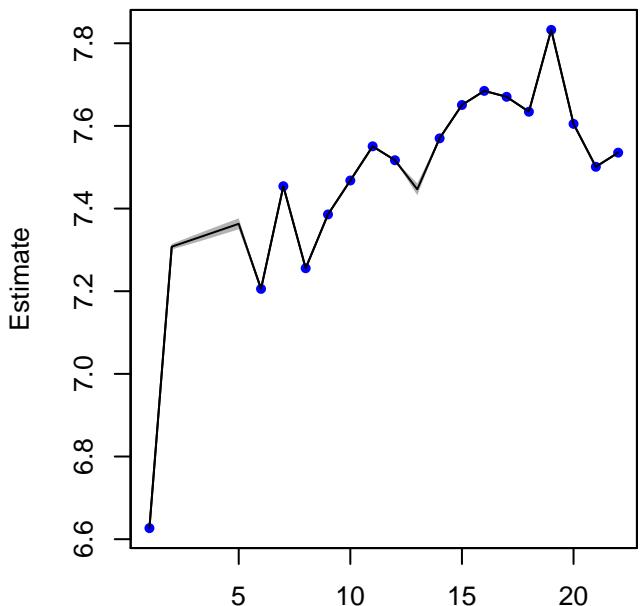


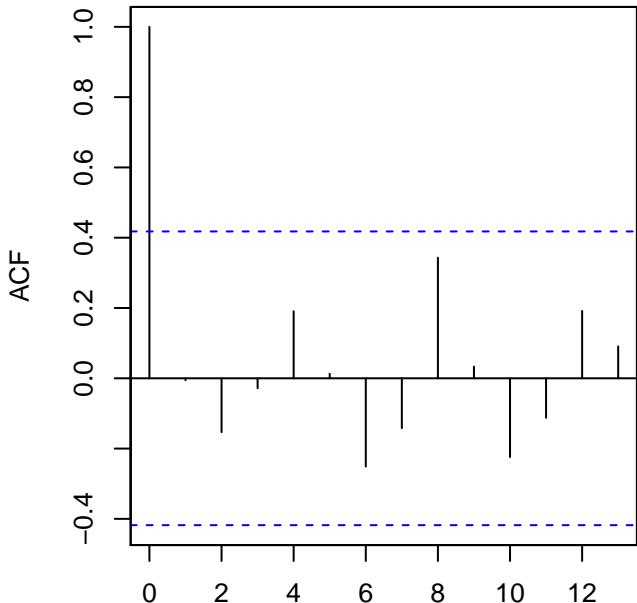
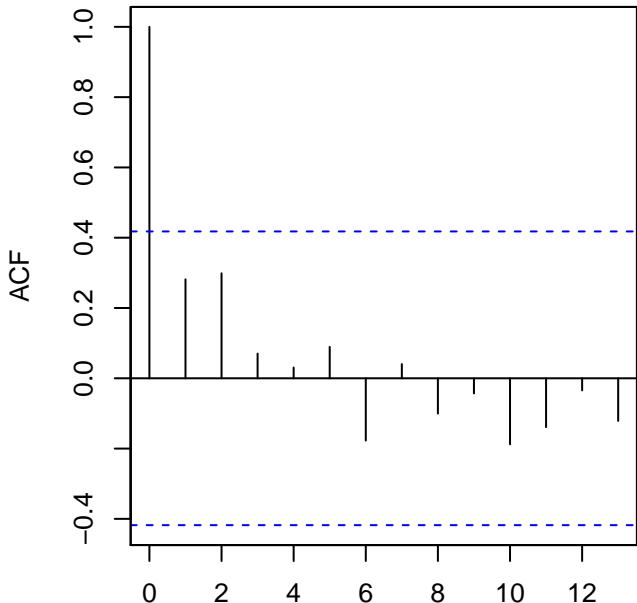
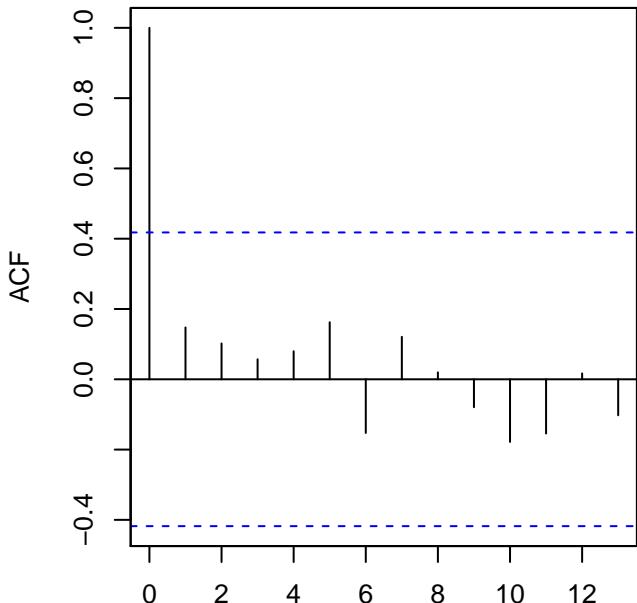
State X.EBays



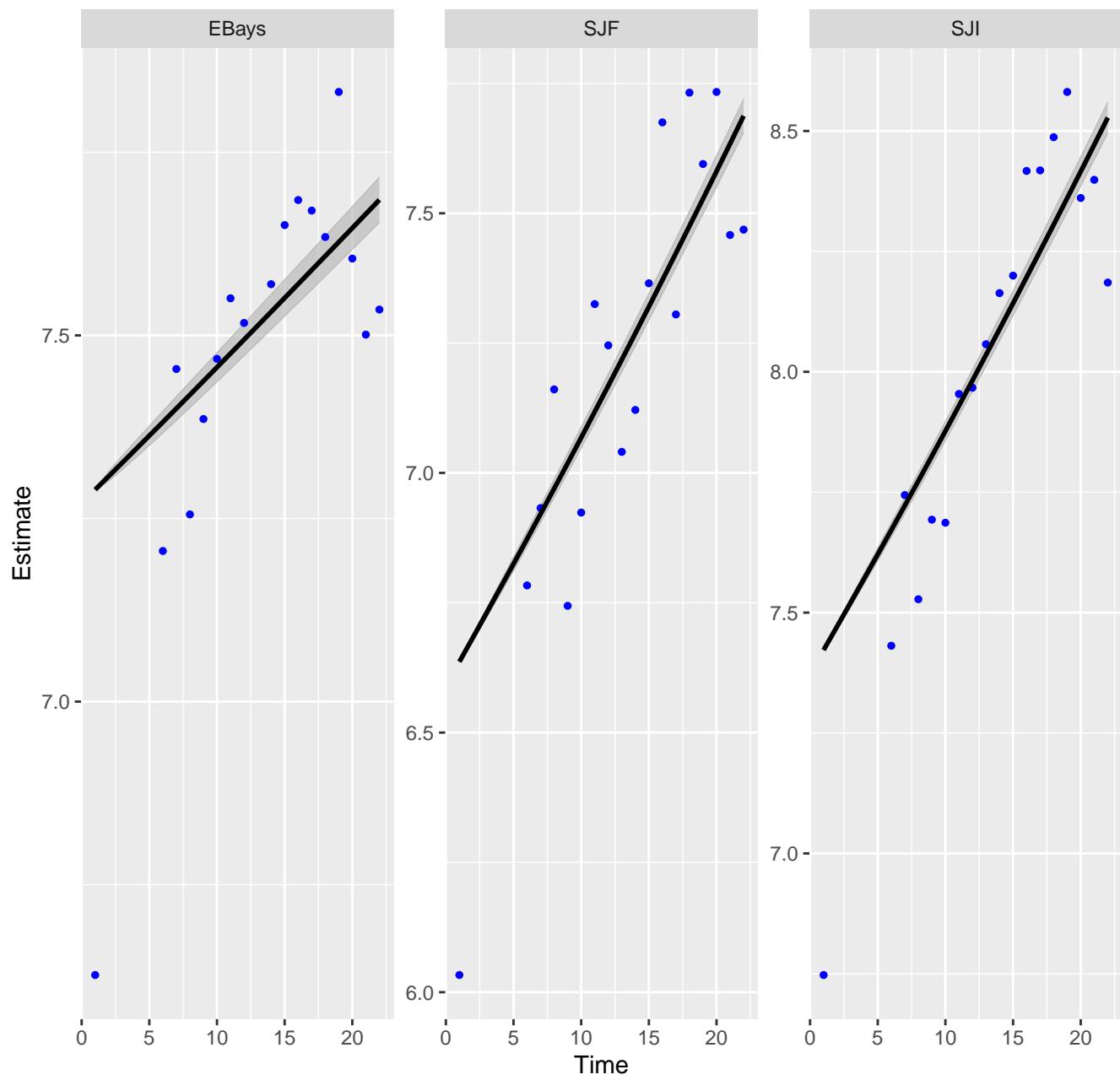
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

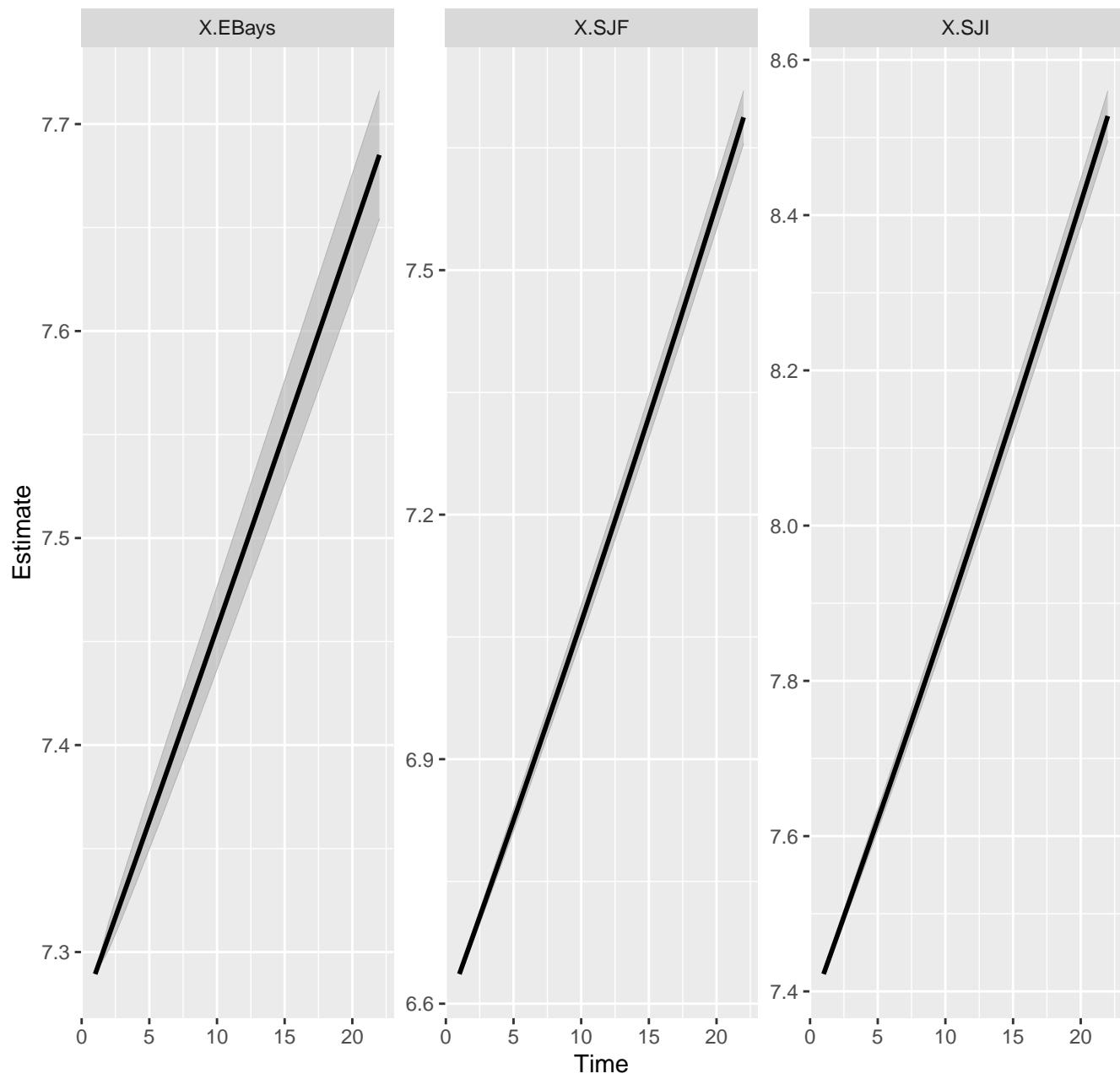
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

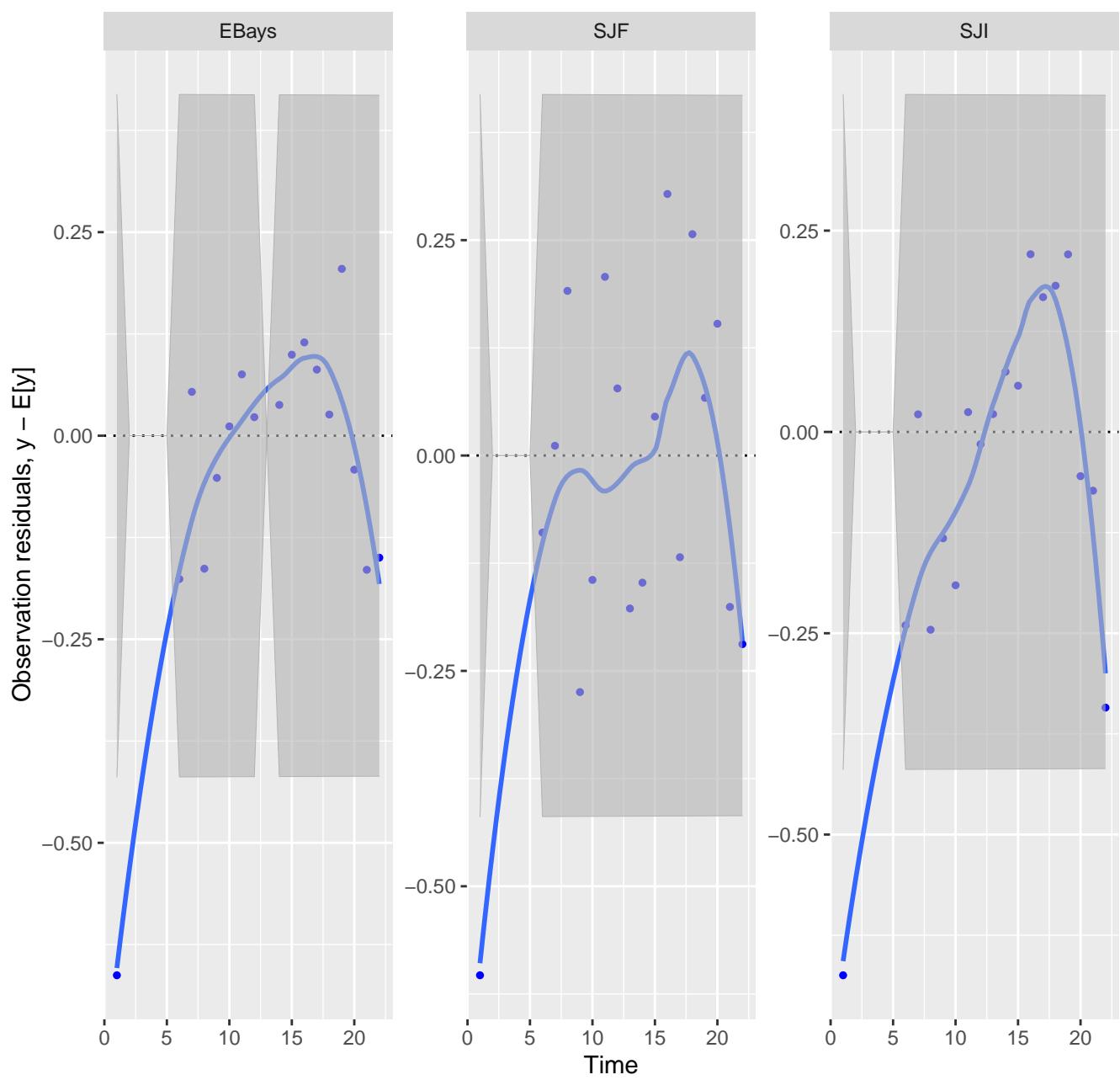
Model fitted Y + CI



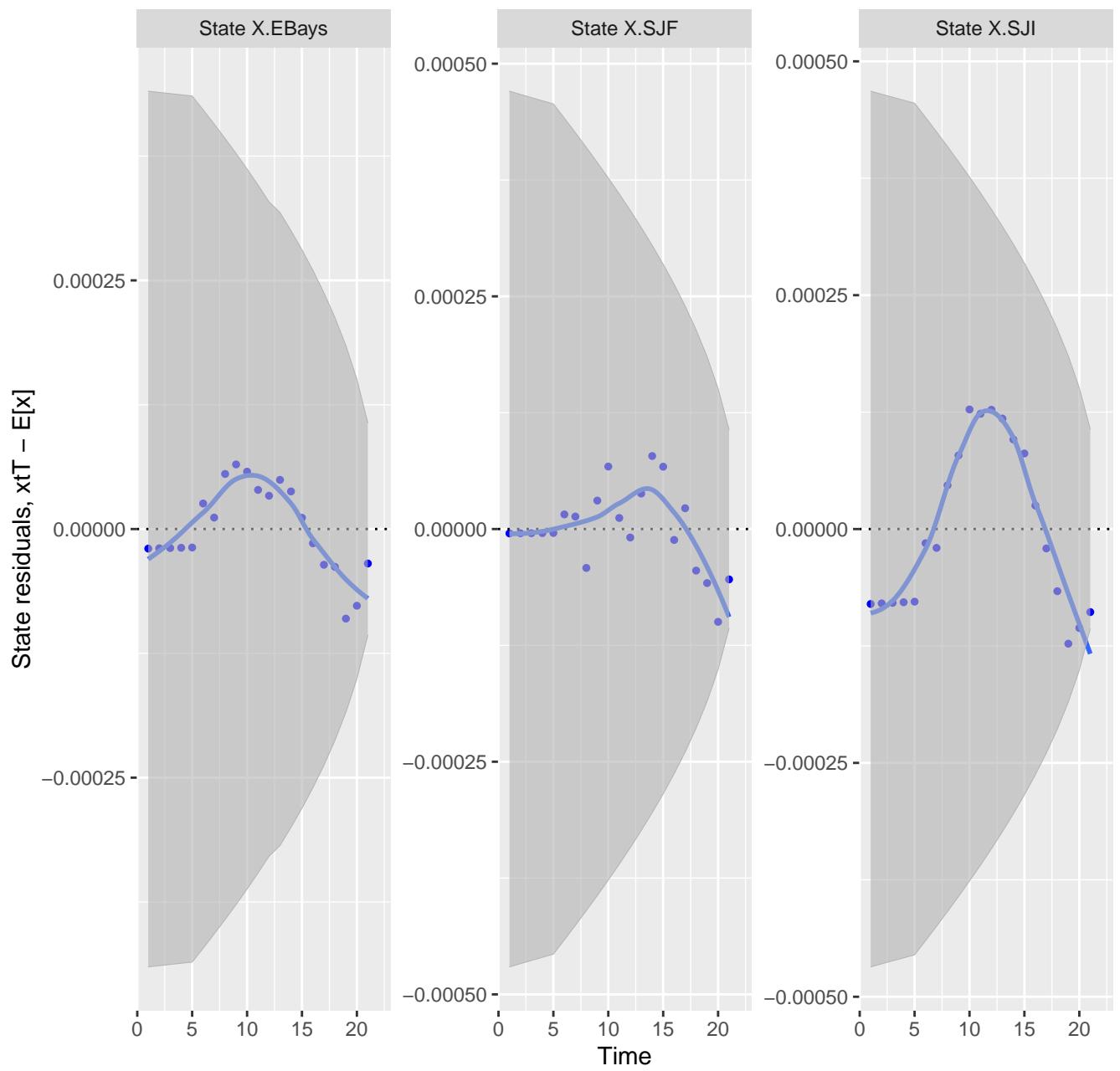
States



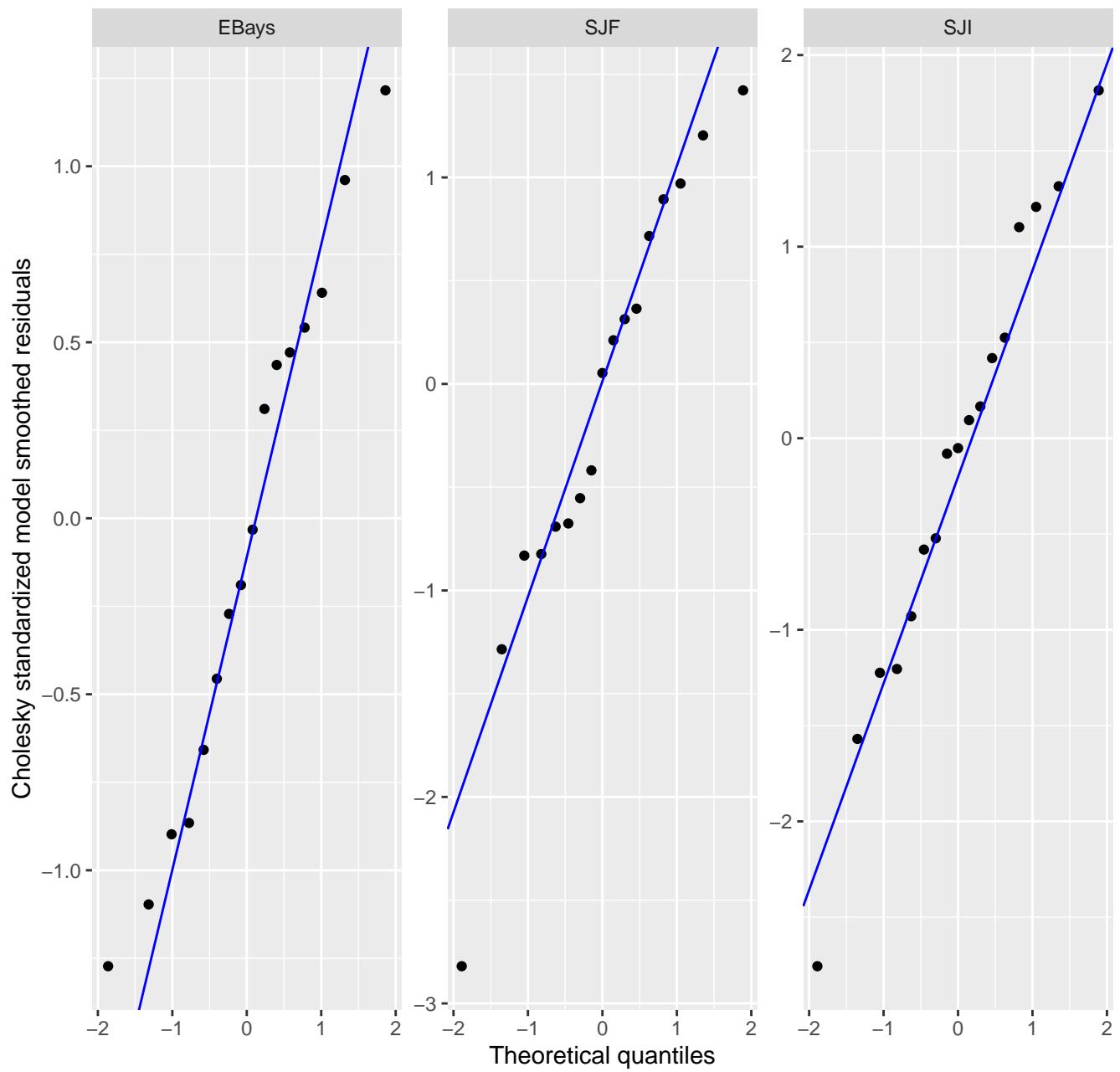
Model residuals



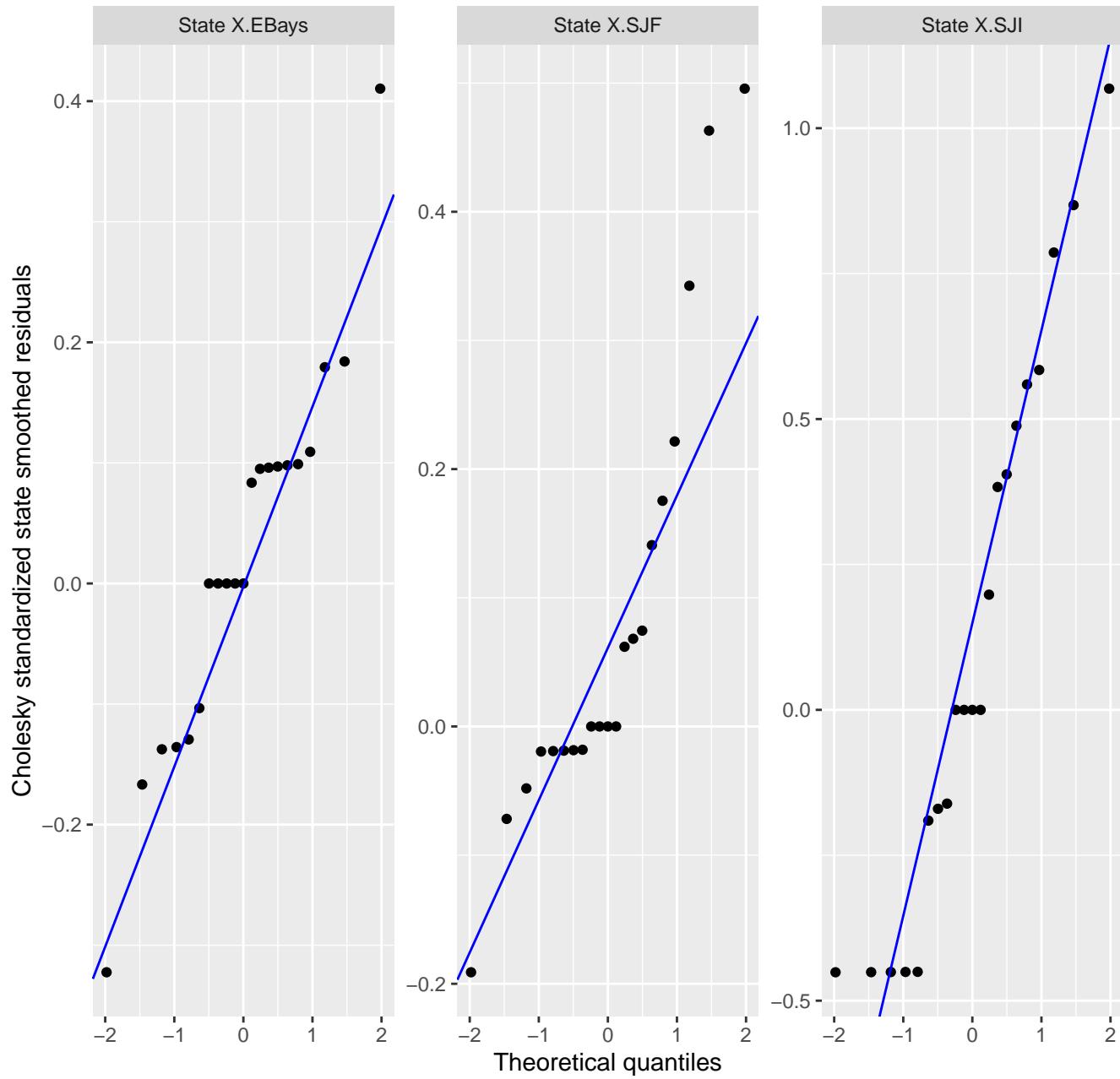
State residuals



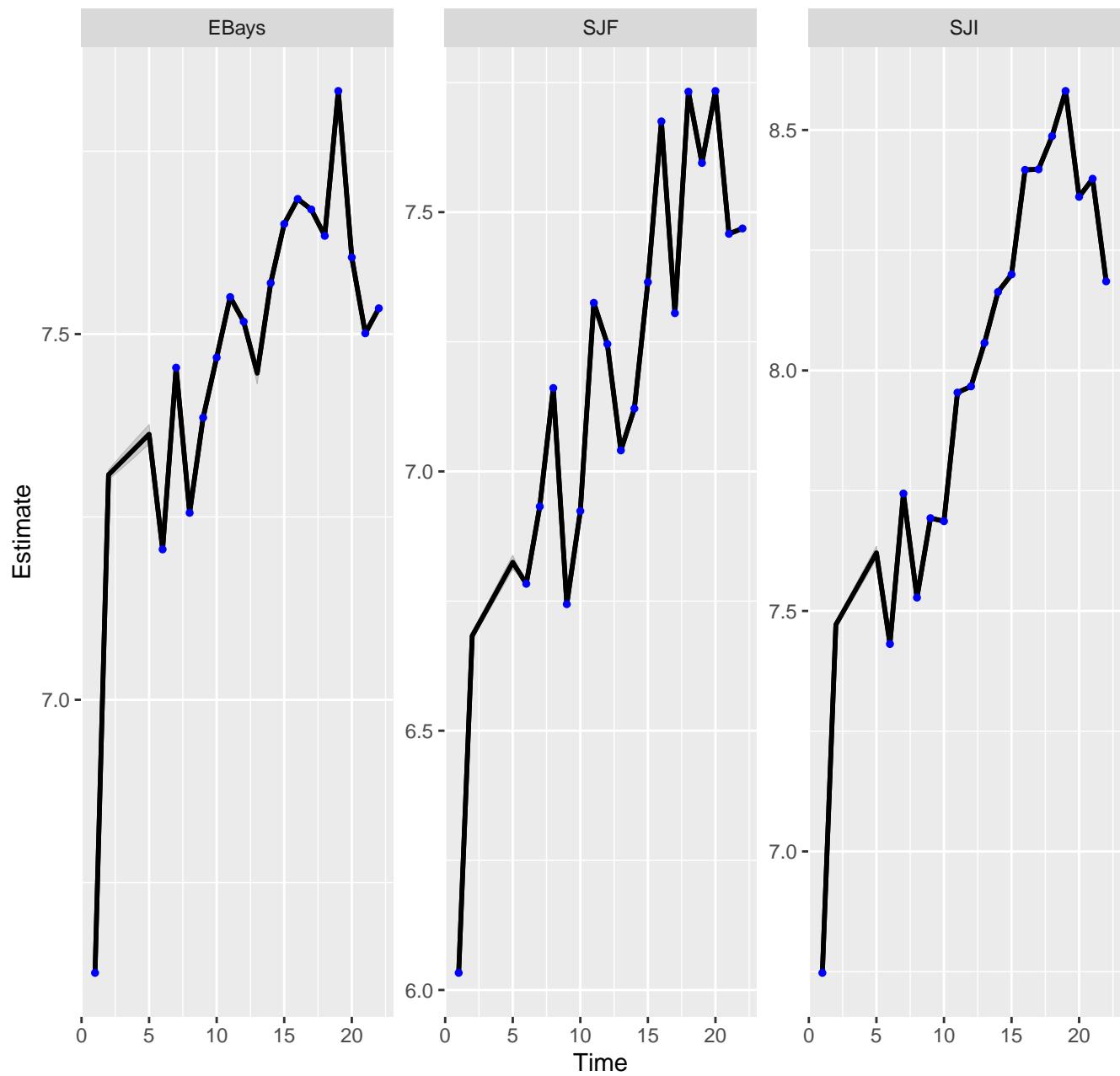
Model residuals normality test



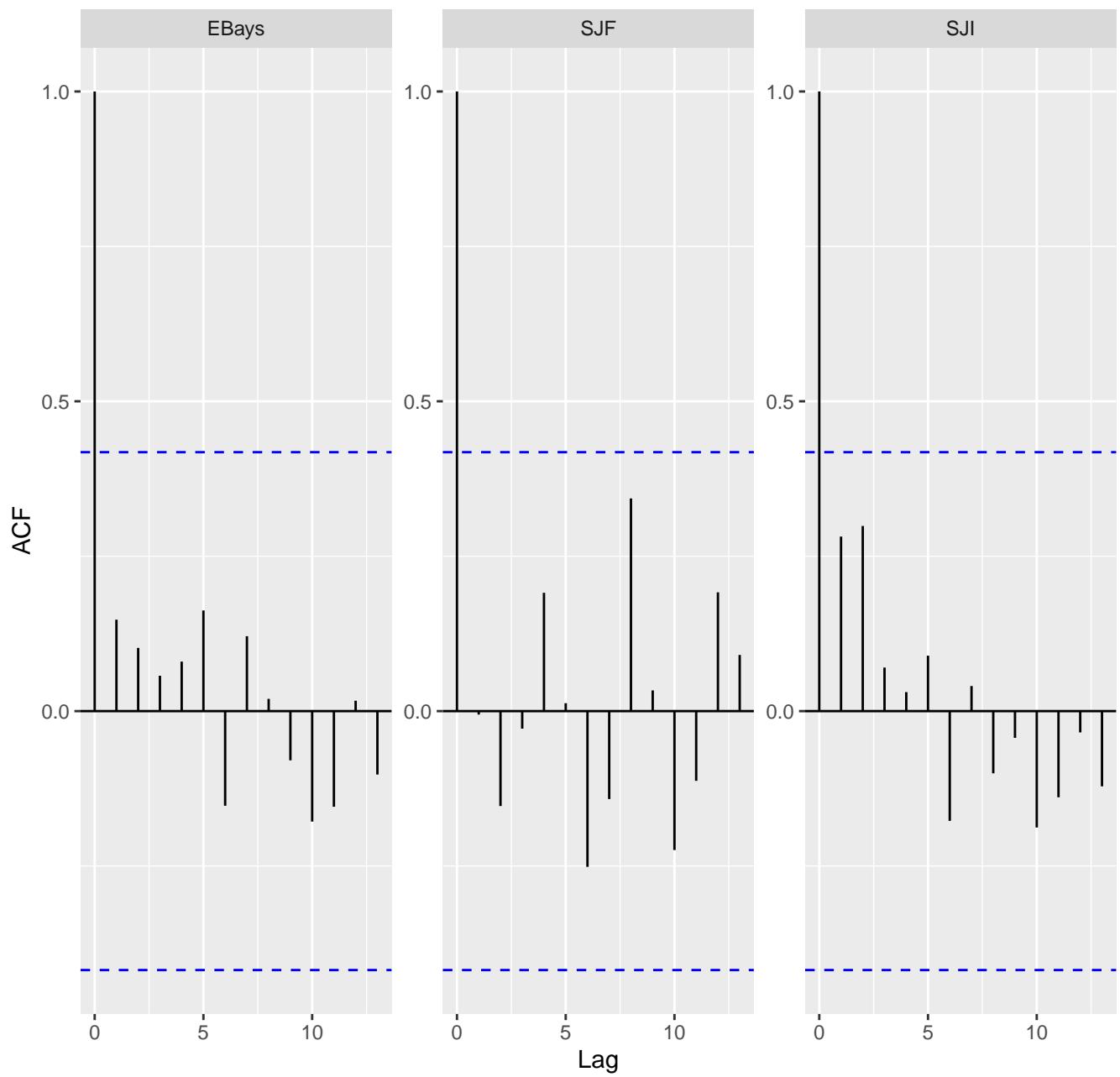
State residuals normality test

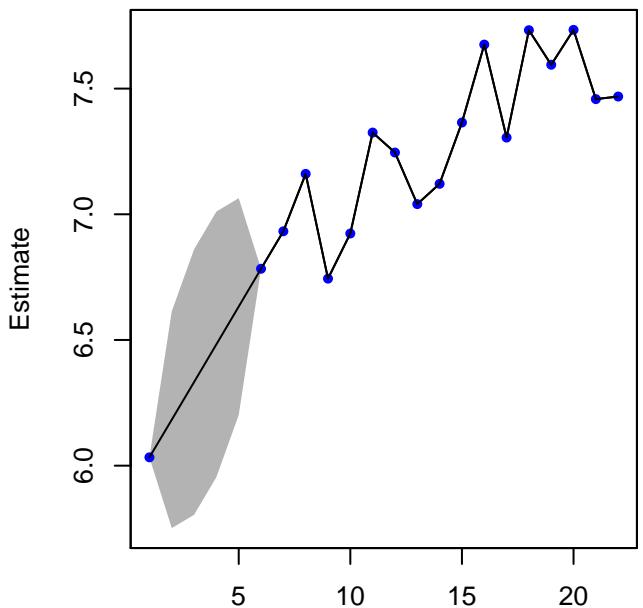
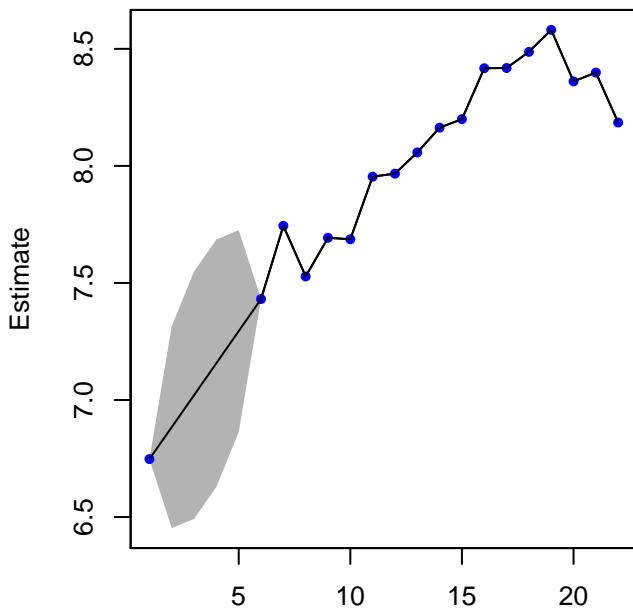
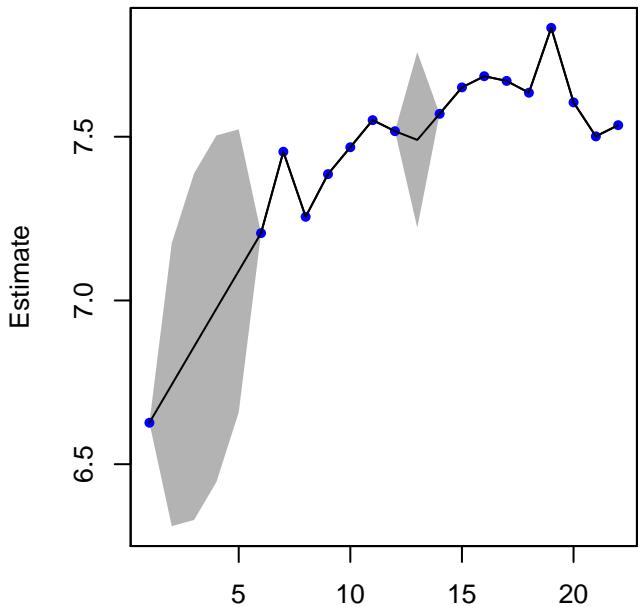


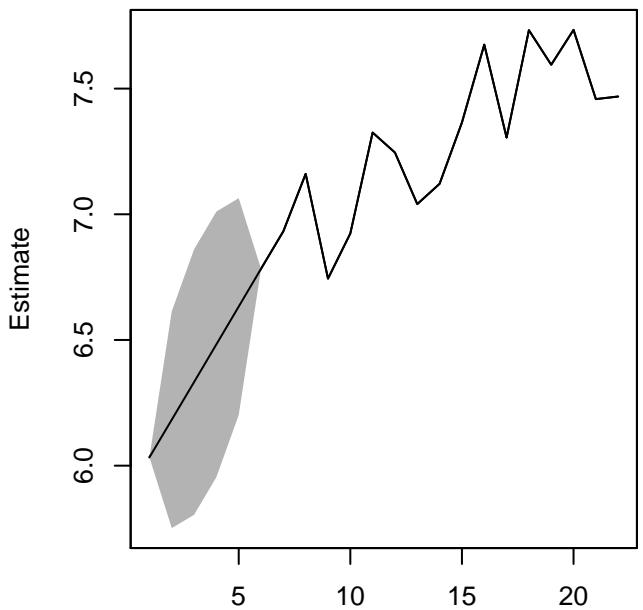
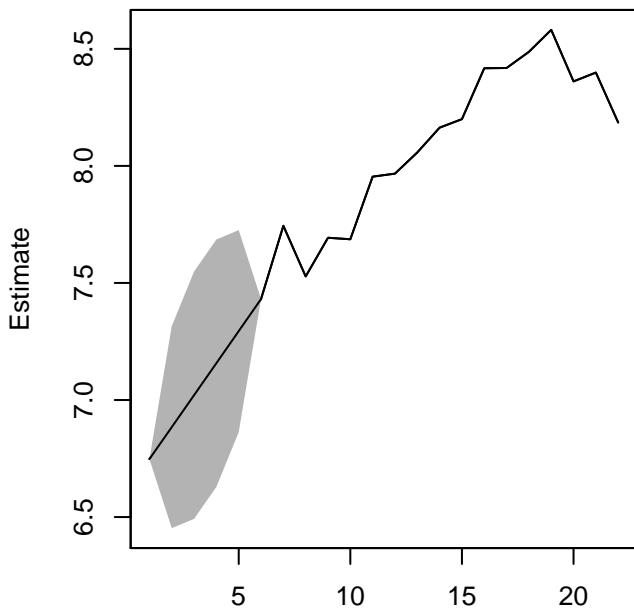
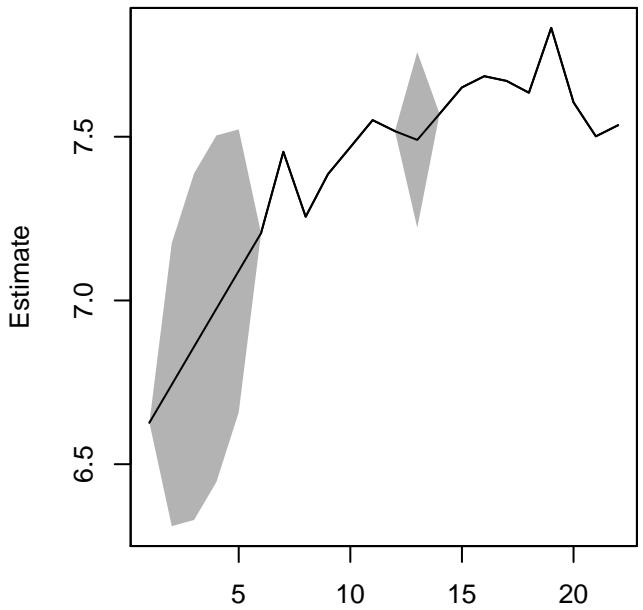
Expected value of Y conditioned on data



Model innovations residuals ACF

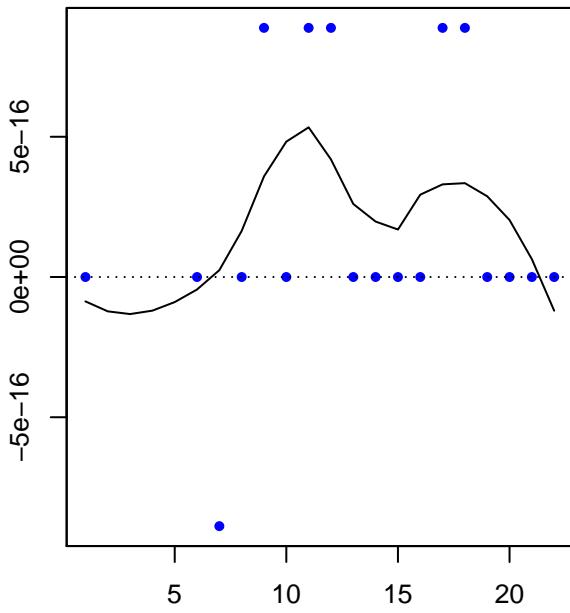


SJF + CI**SJI + CI****EBays + CI**

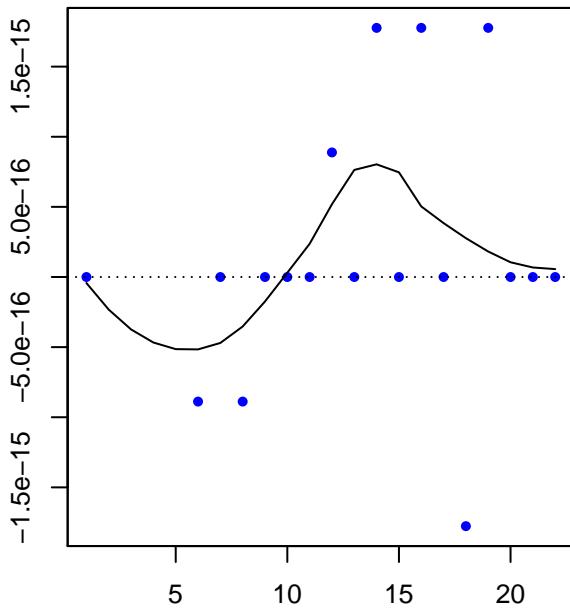
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

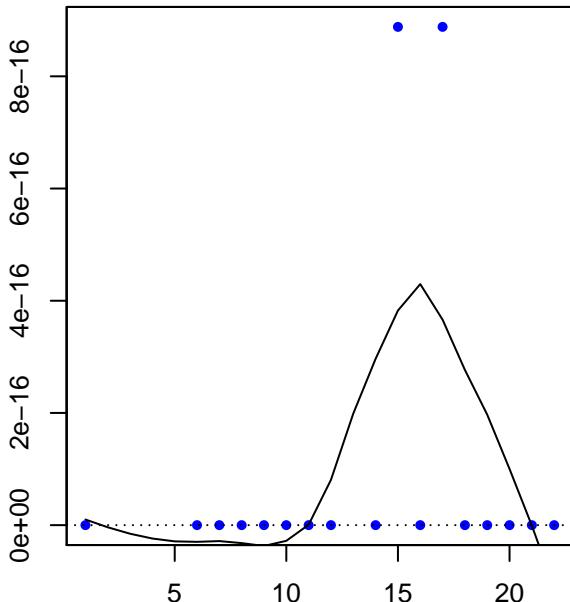
SJF



SJI

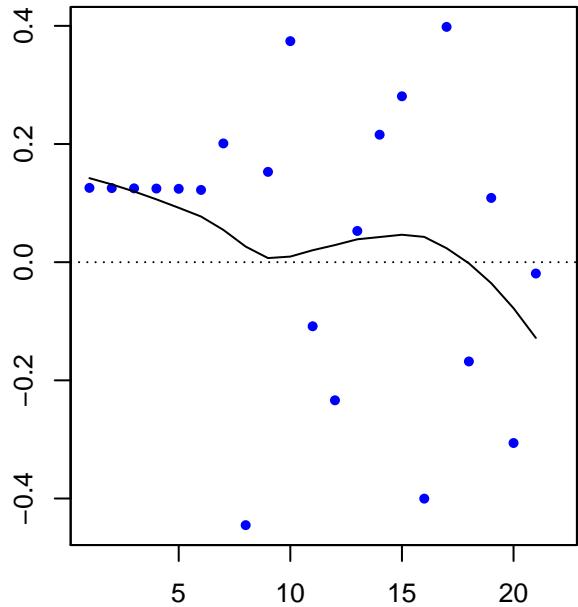


EBays

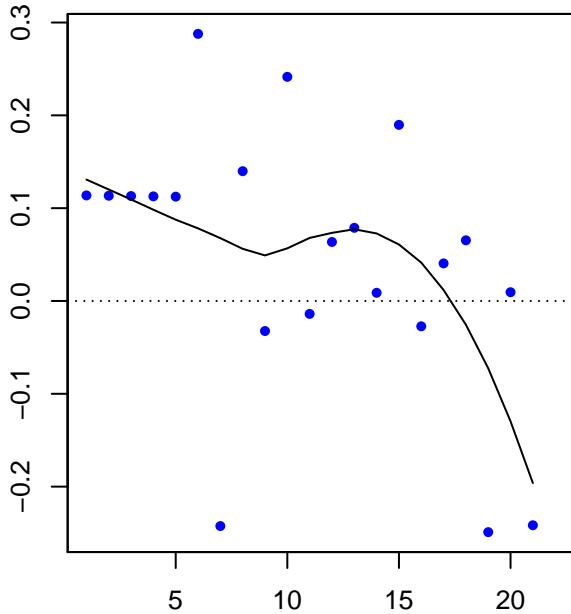


State residuals, $x_{tT} - E[x]$

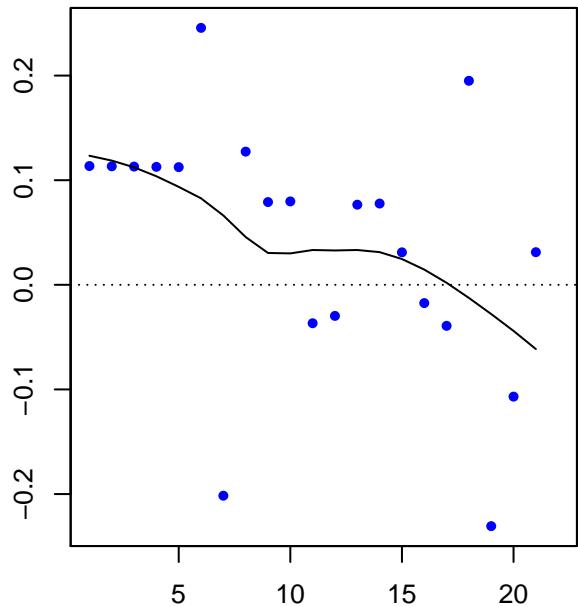
State X.SJF

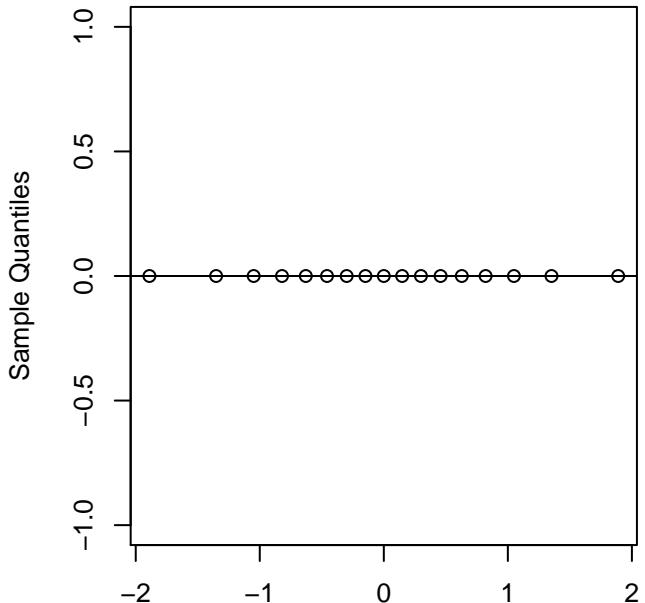
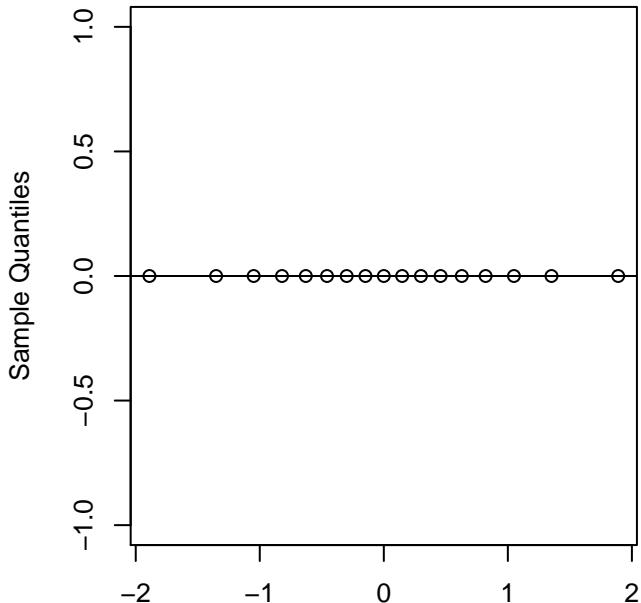
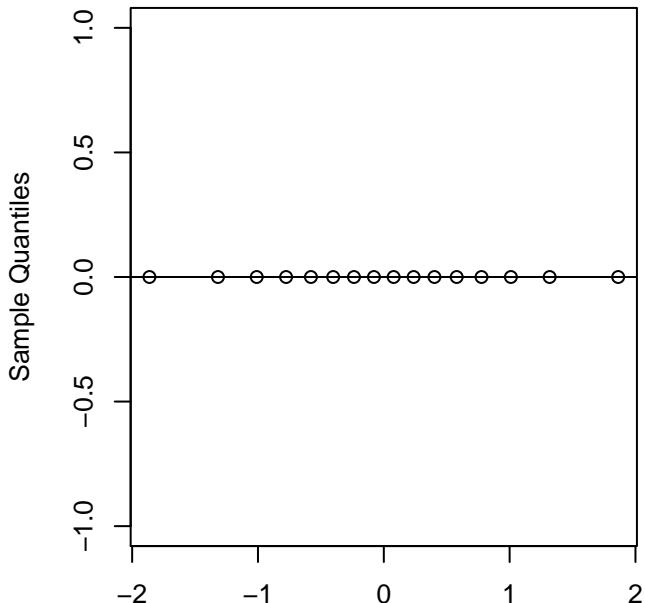


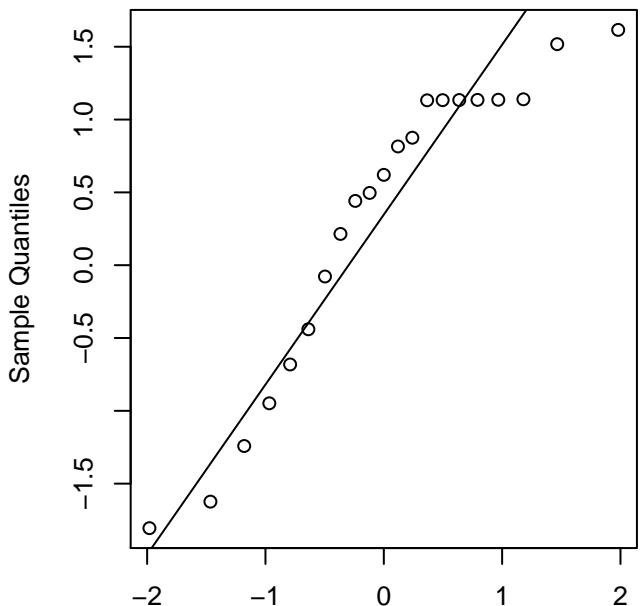
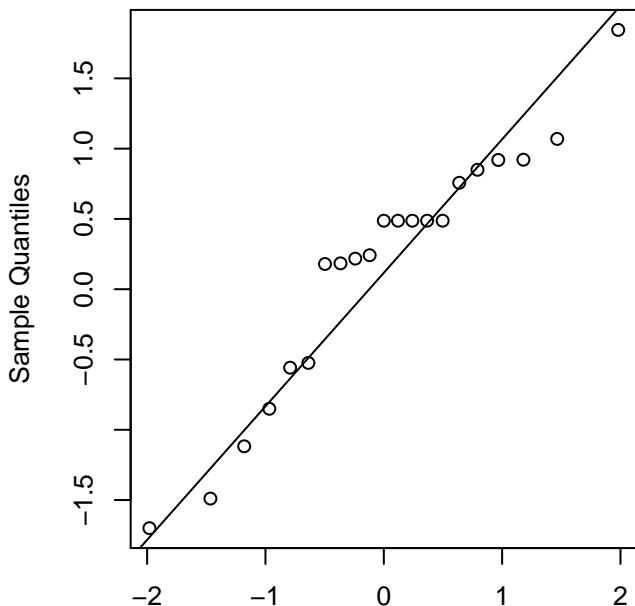
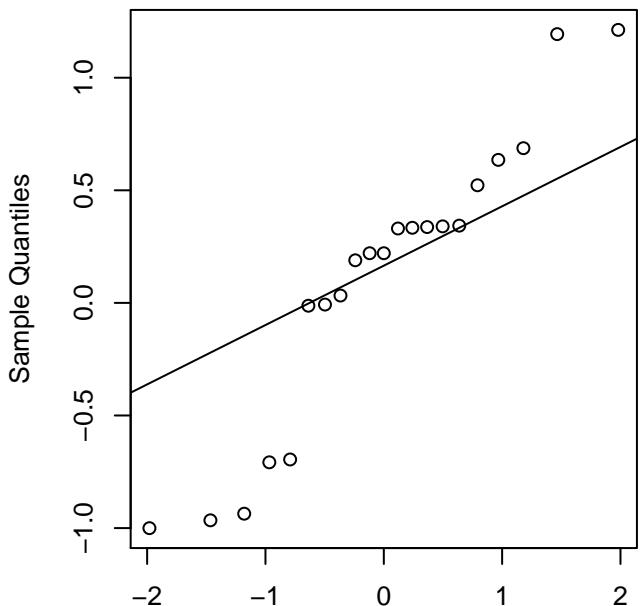
State X.SJI

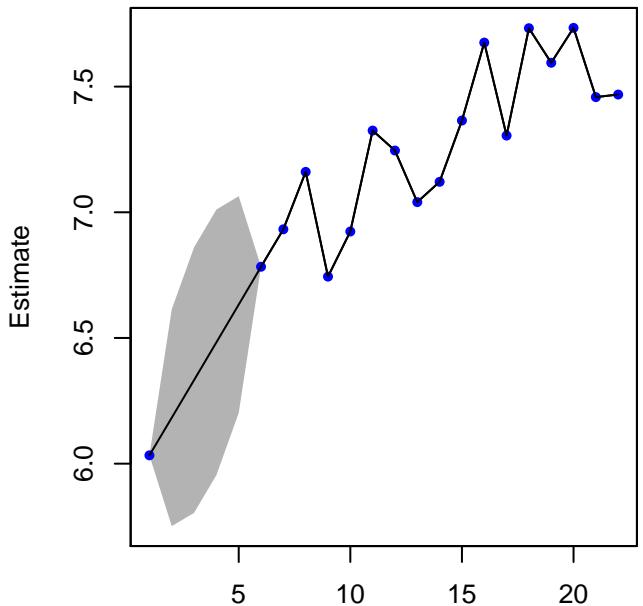
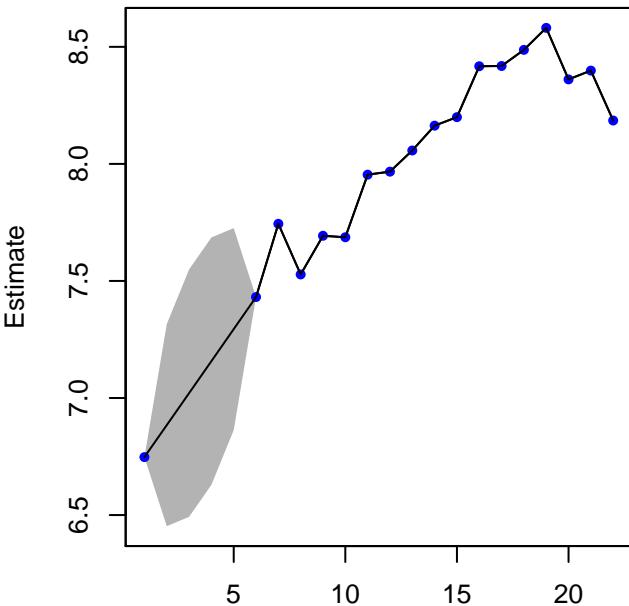
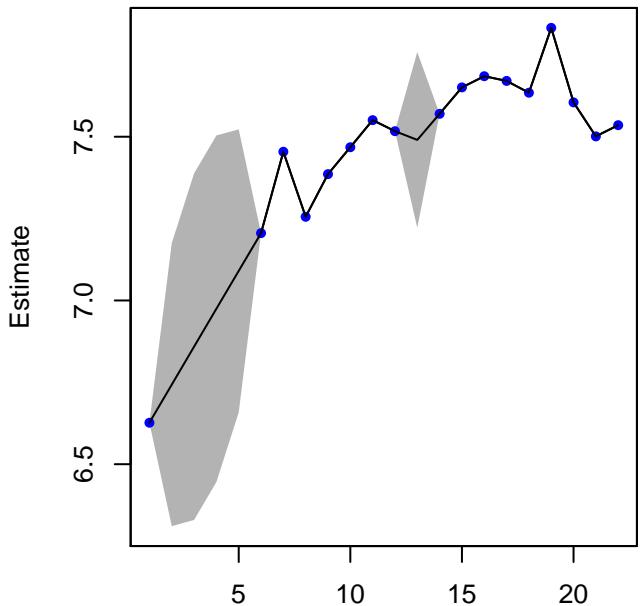


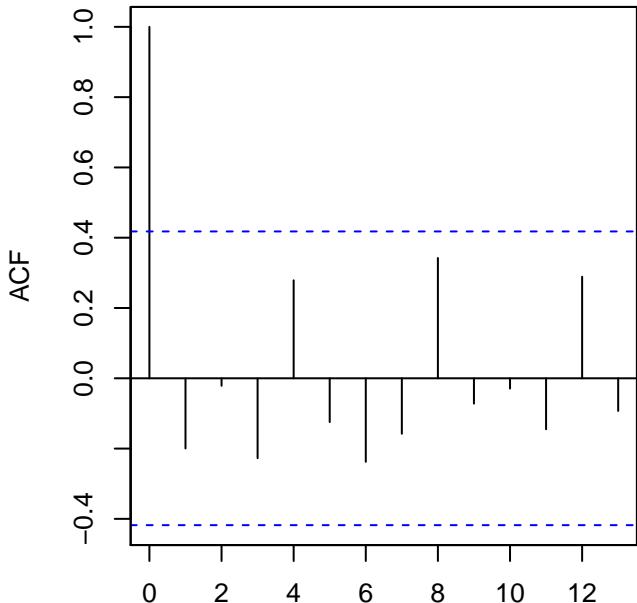
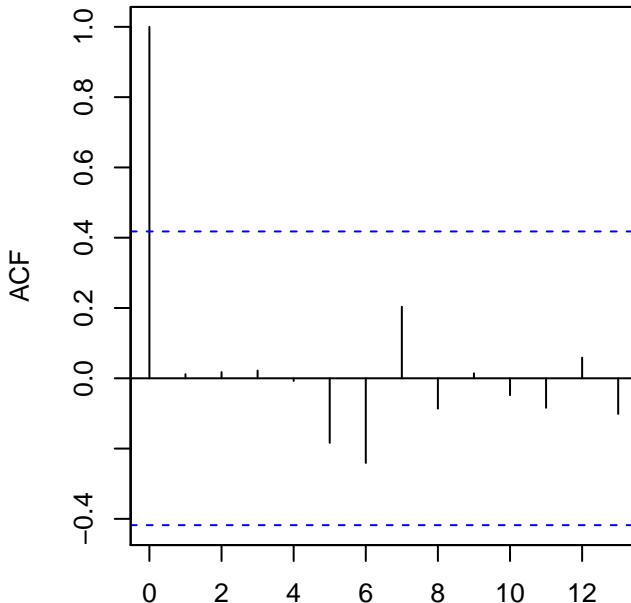
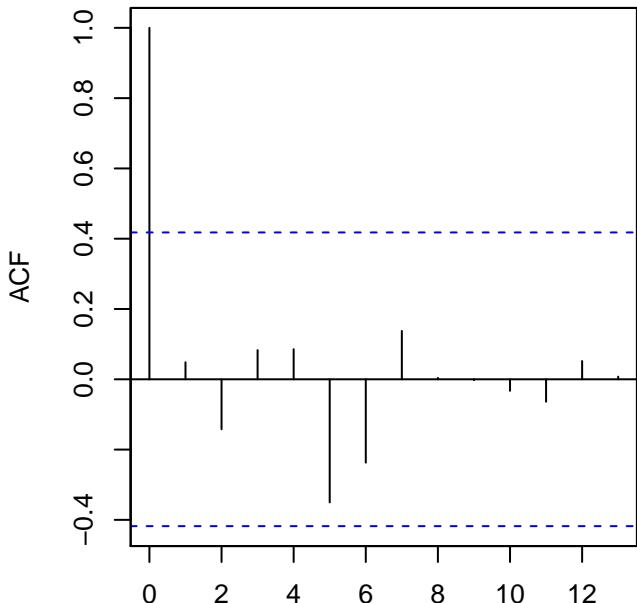
State X.EBays



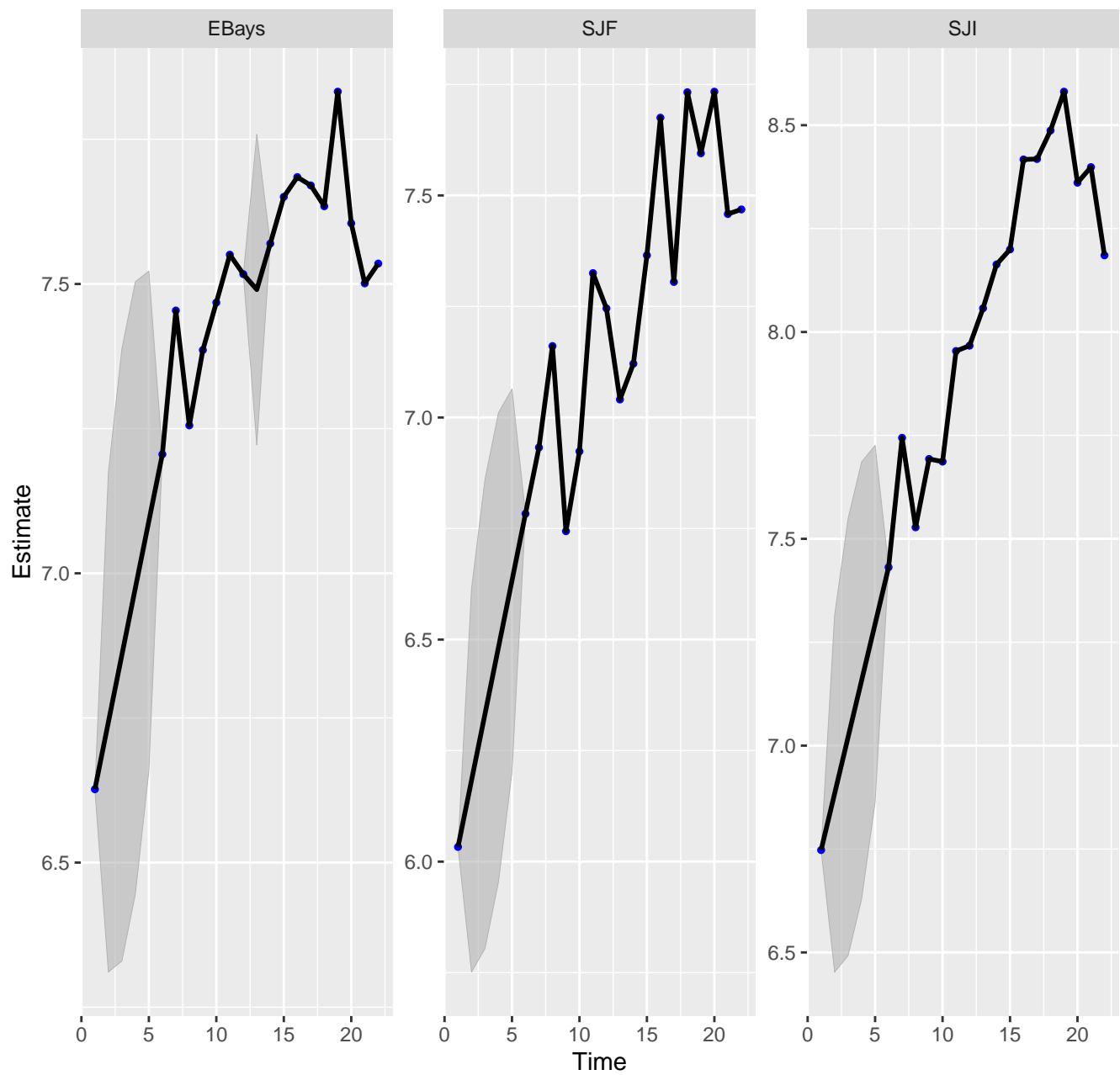
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

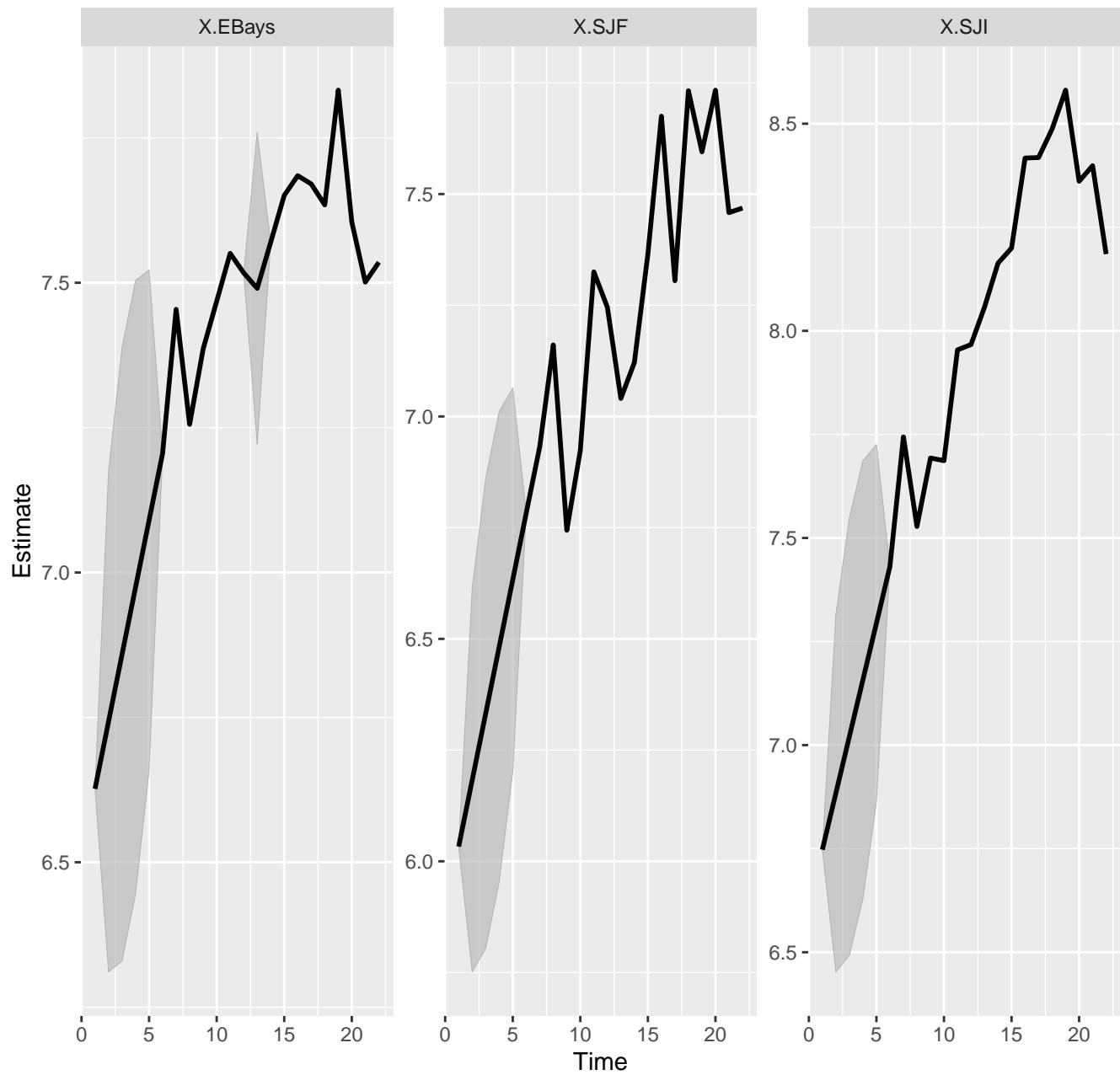
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

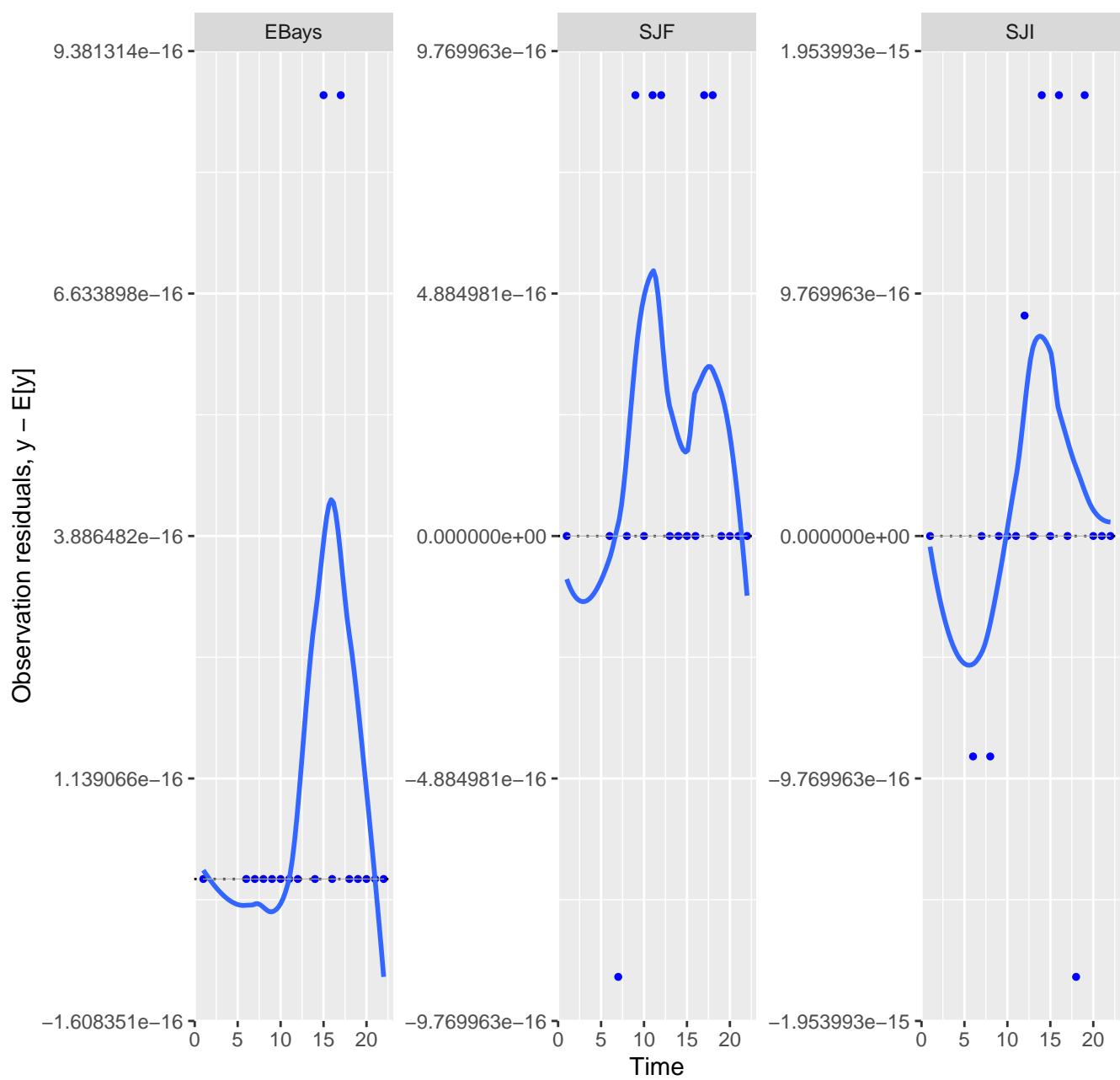
Model fitted Y + CI



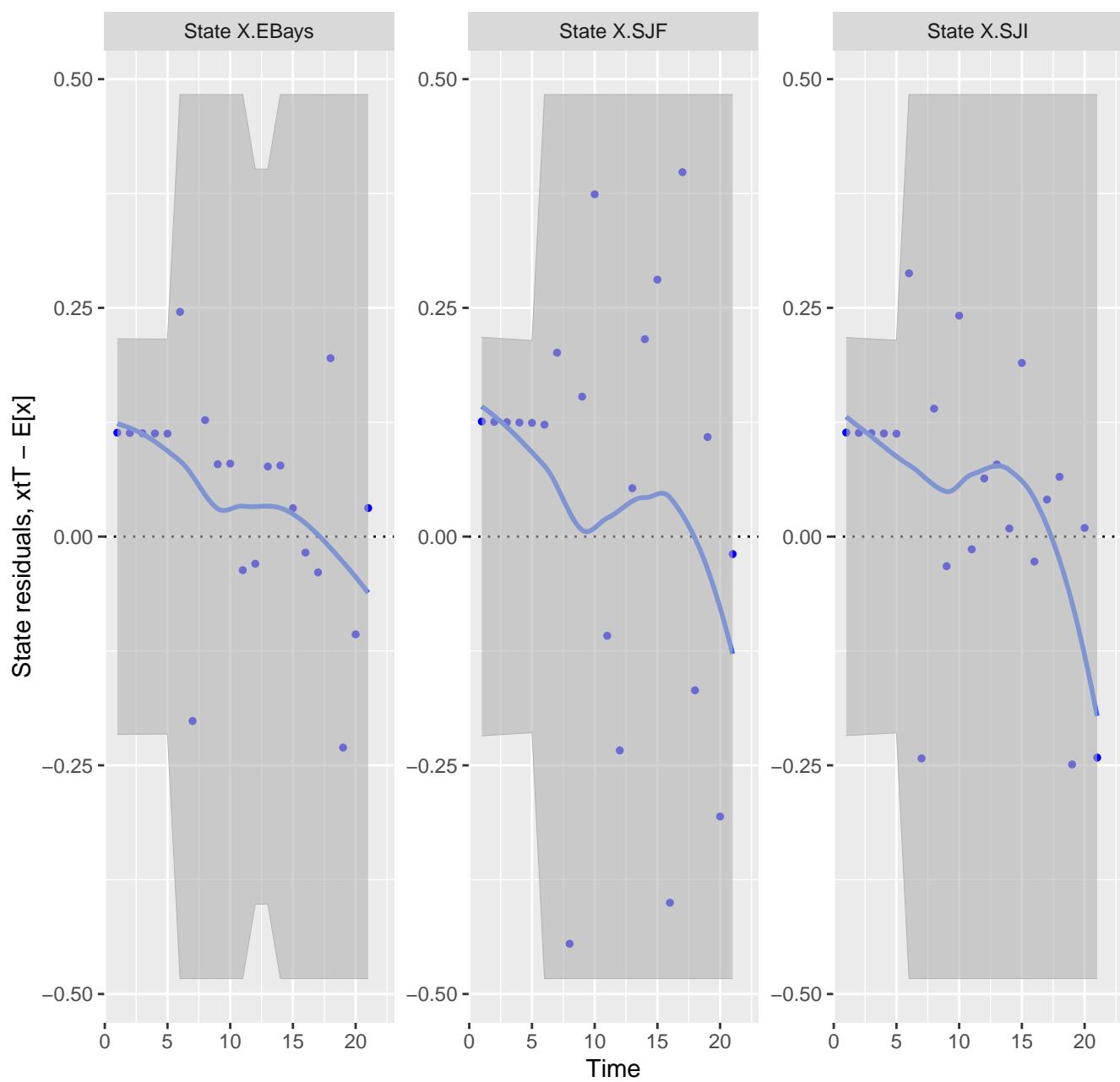
States



Model residuals

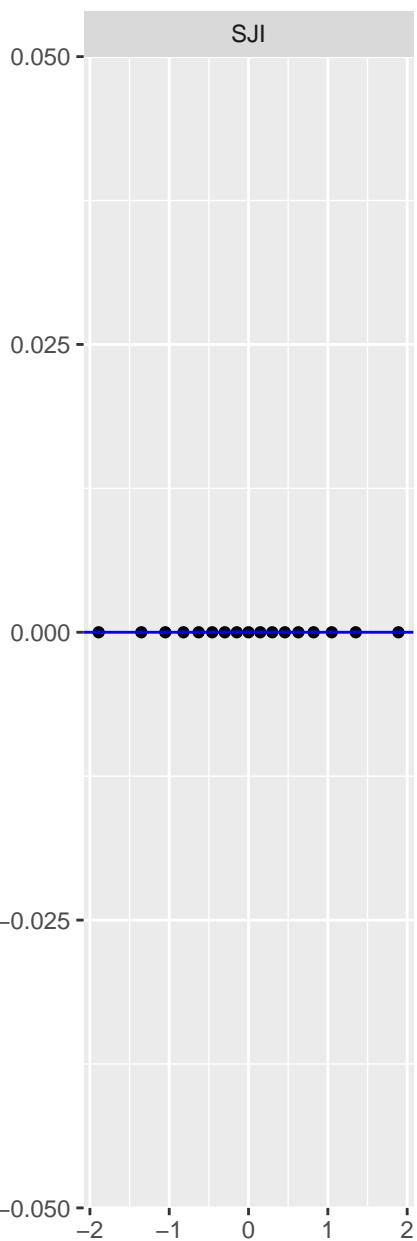
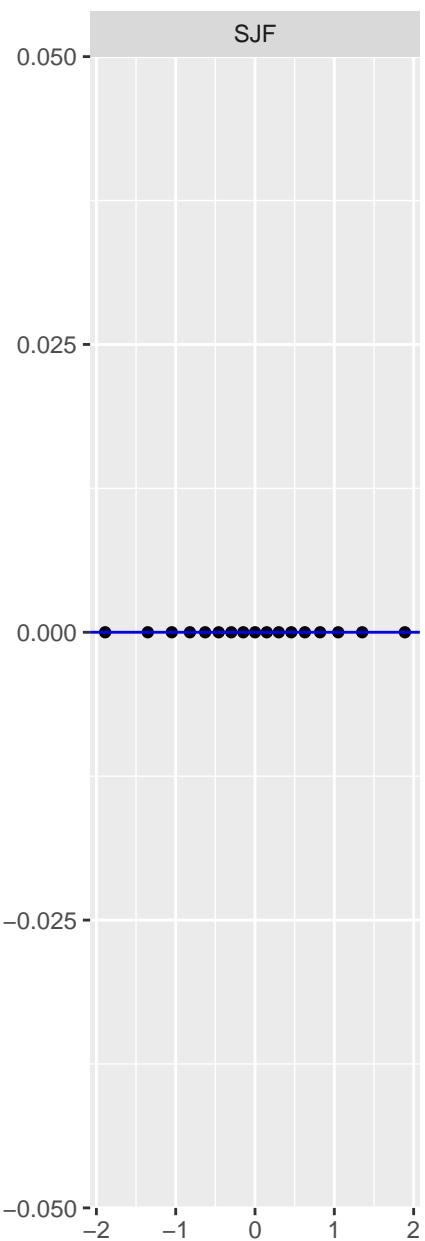
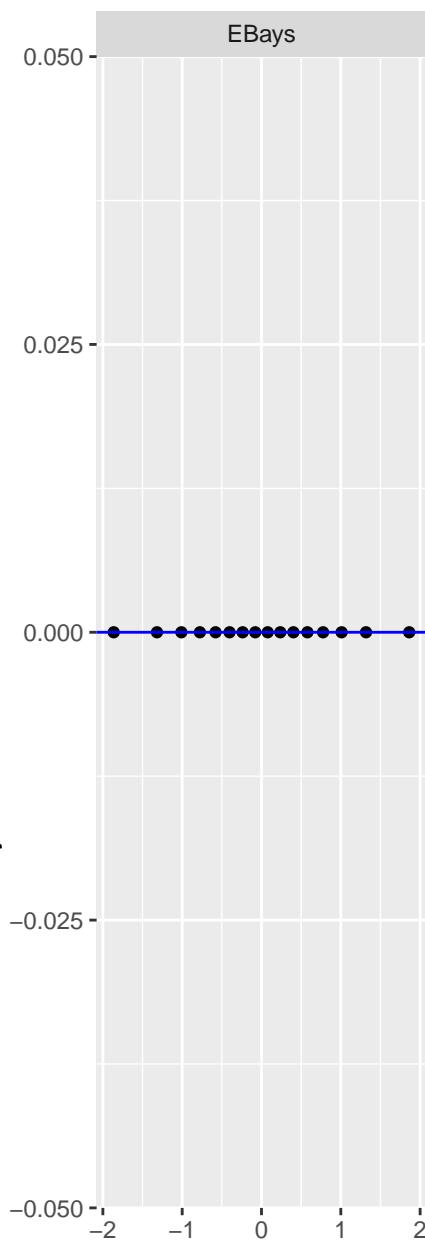


State residuals



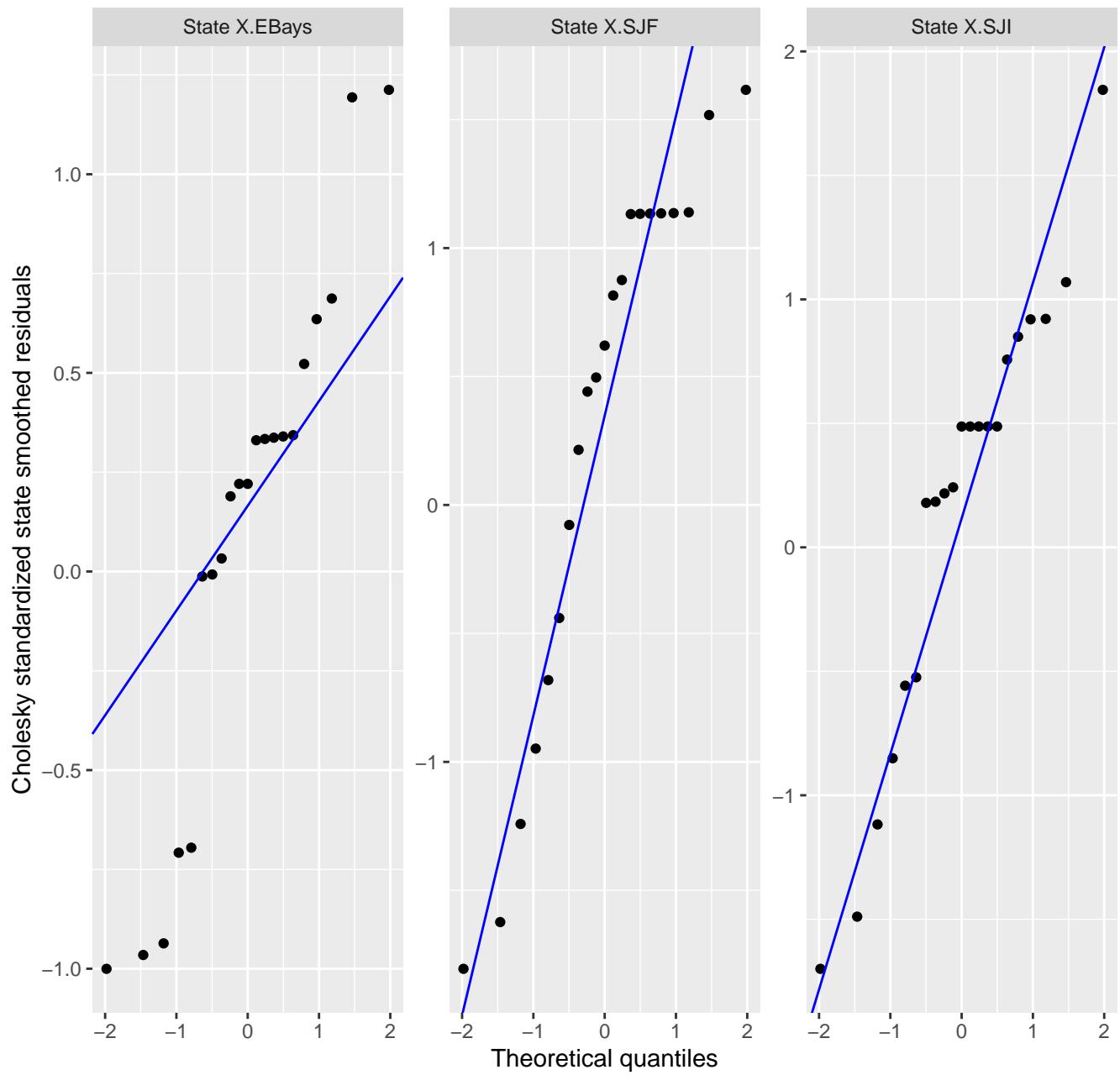
Model residuals normality test

Cholesky standardized model smoothed residuals

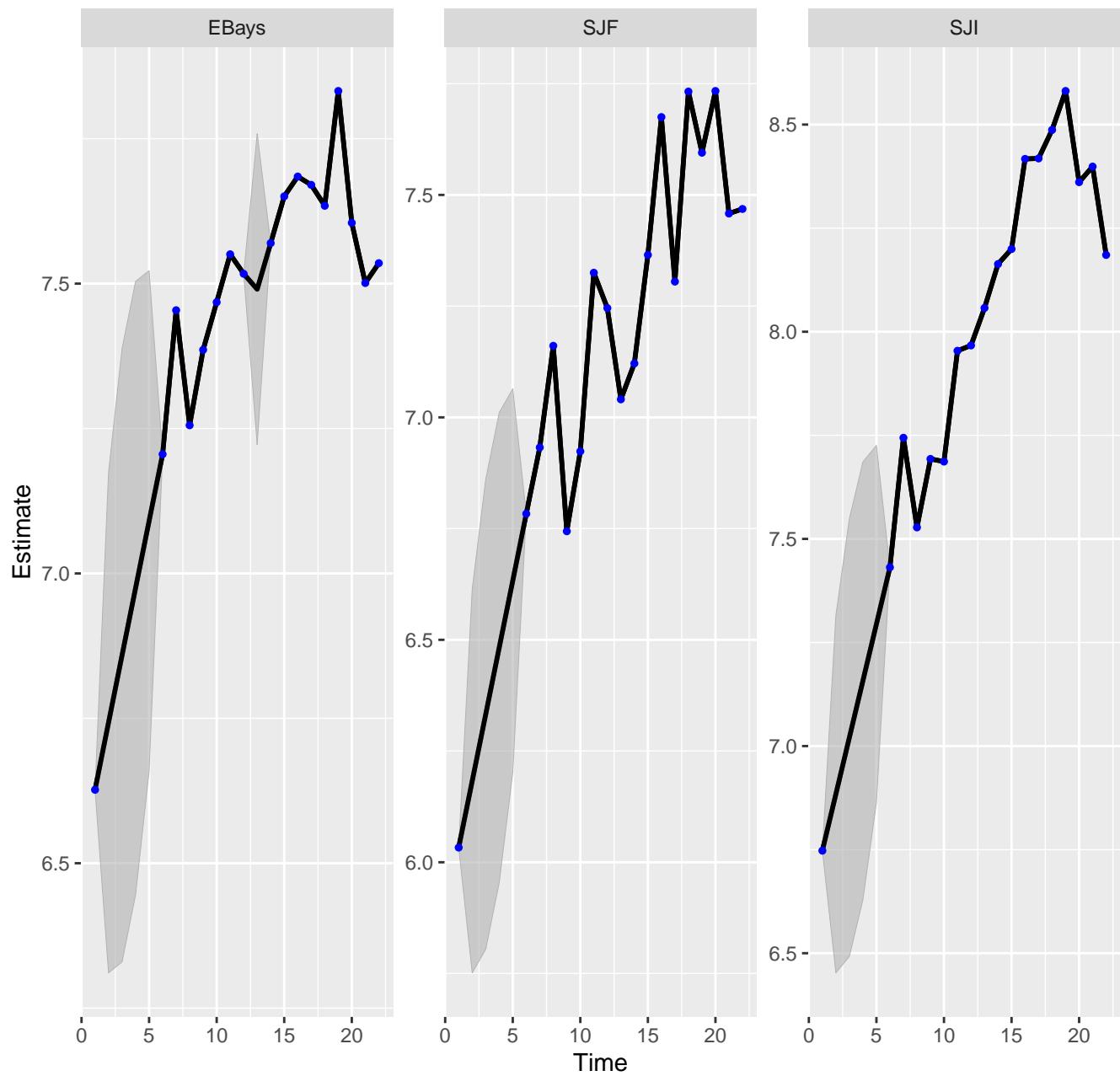


Theoretical quantiles

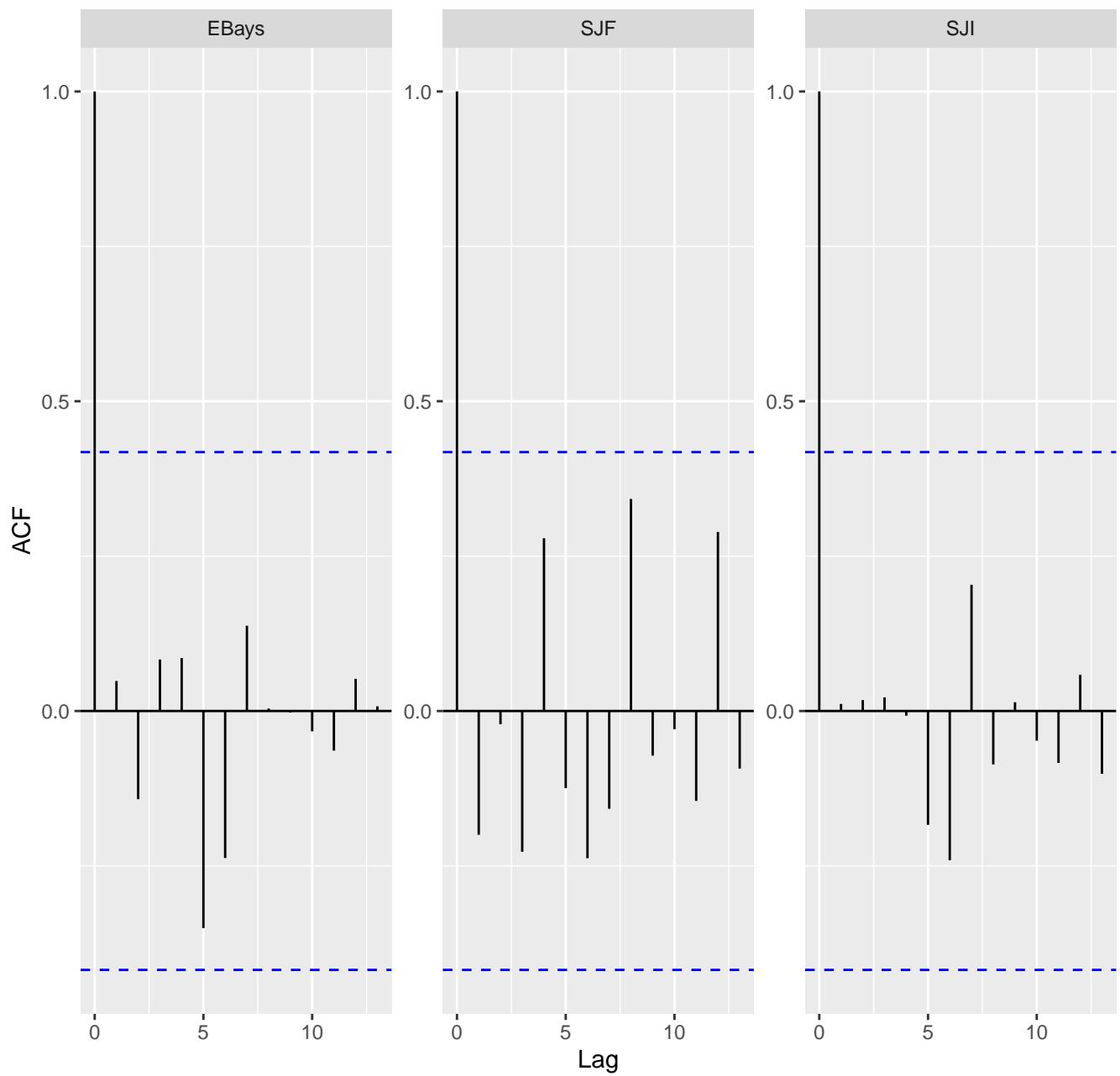
State residuals normality test

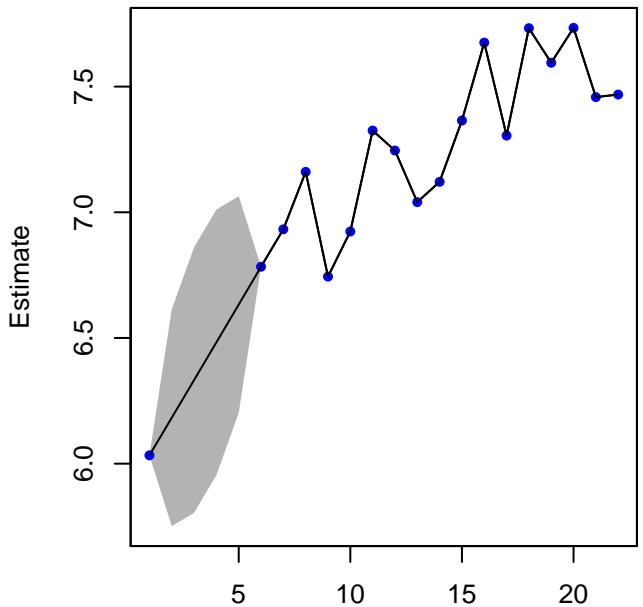
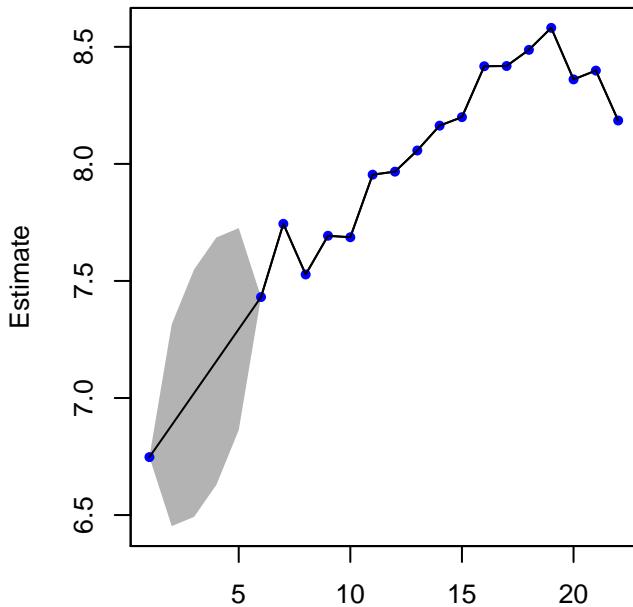
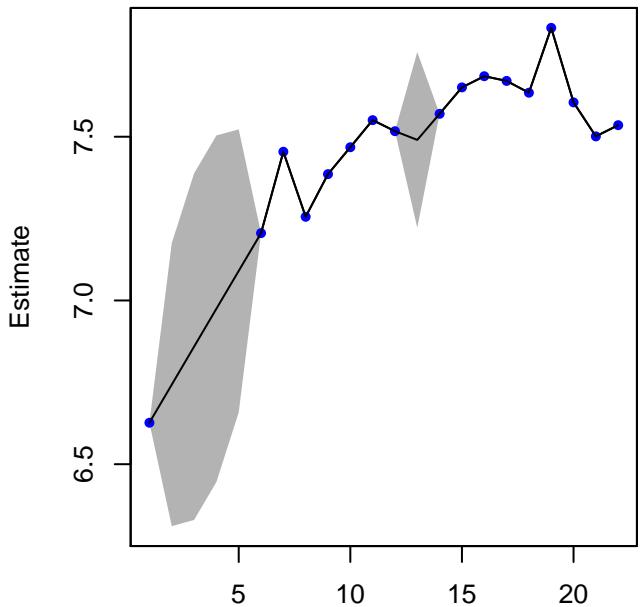


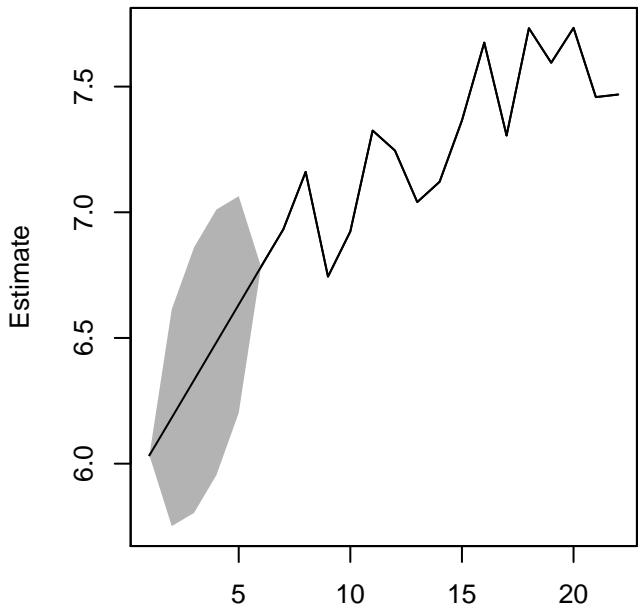
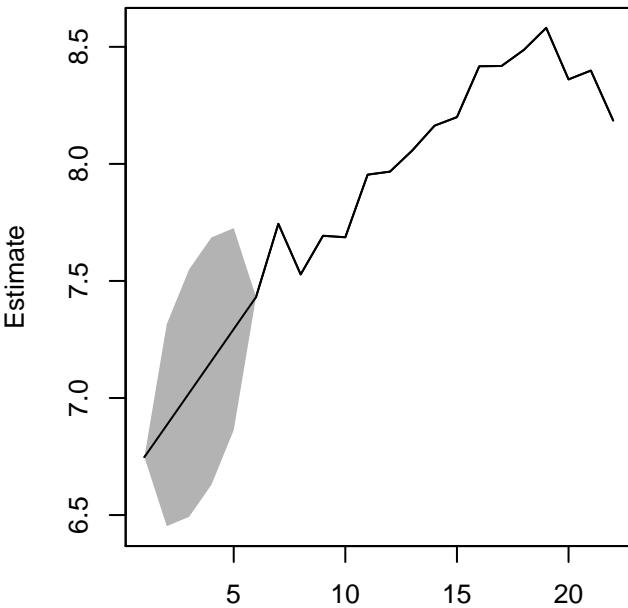
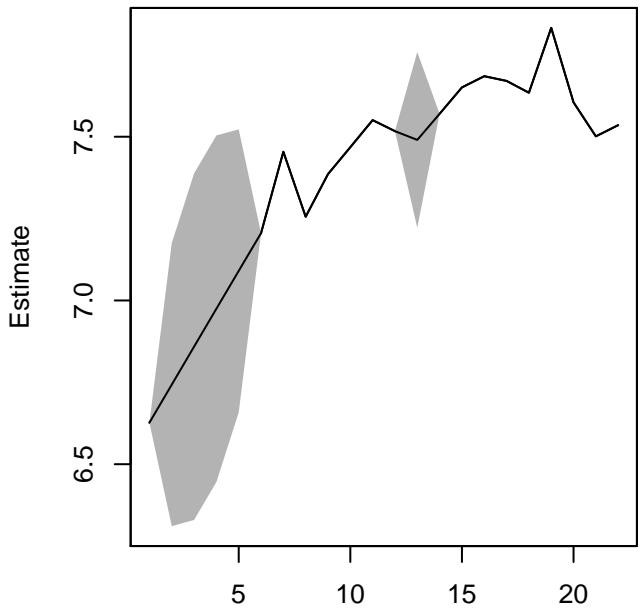
Expected value of Y conditioned on data



Model innovations residuals ACF

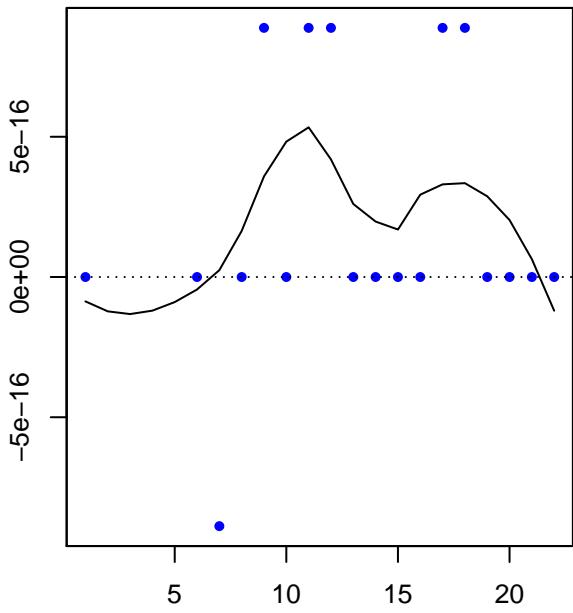


SJF + CI**SJI + CI****EBays + CI**

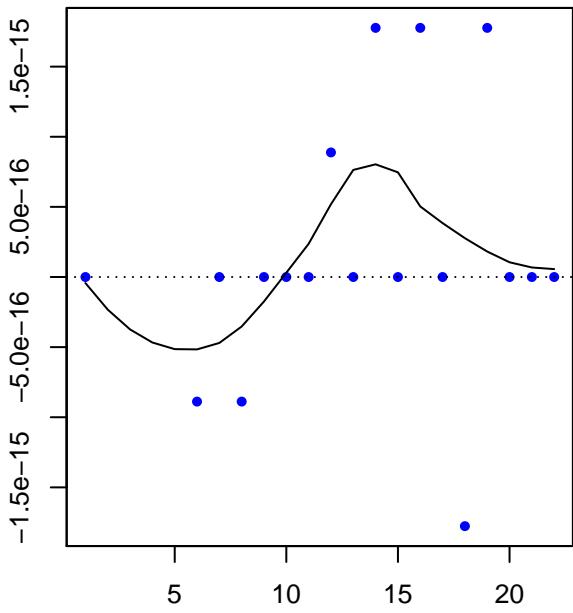
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

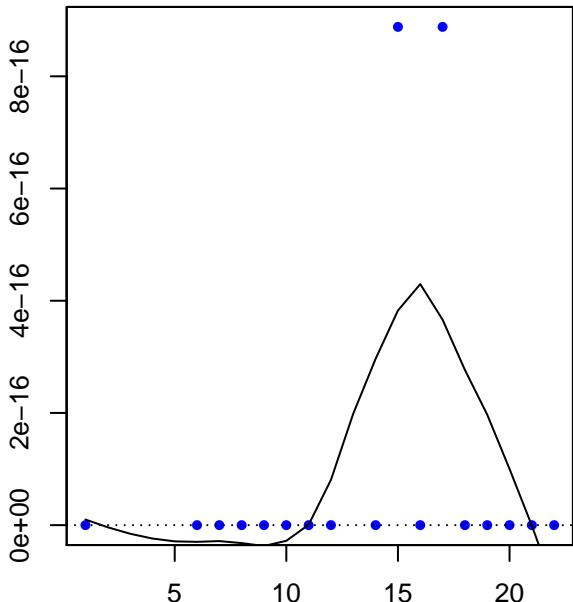
SJF



SJI

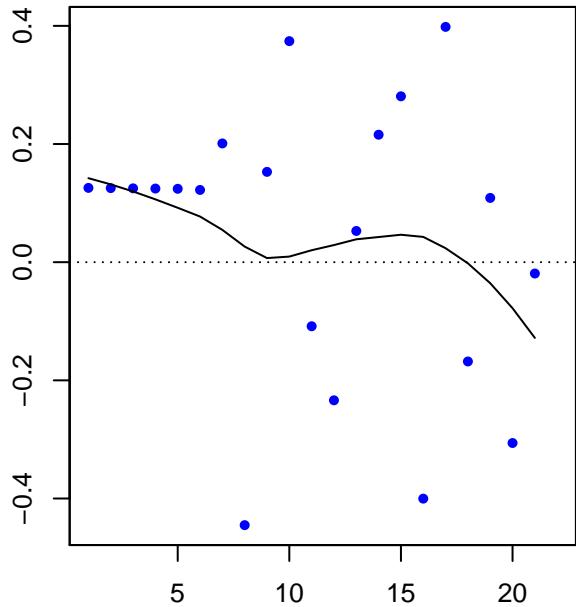


EBays

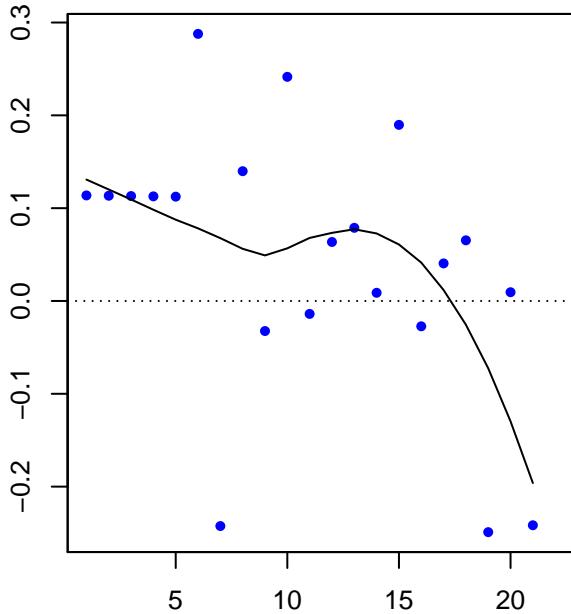


State residuals, $x_{tT} - E[x]$

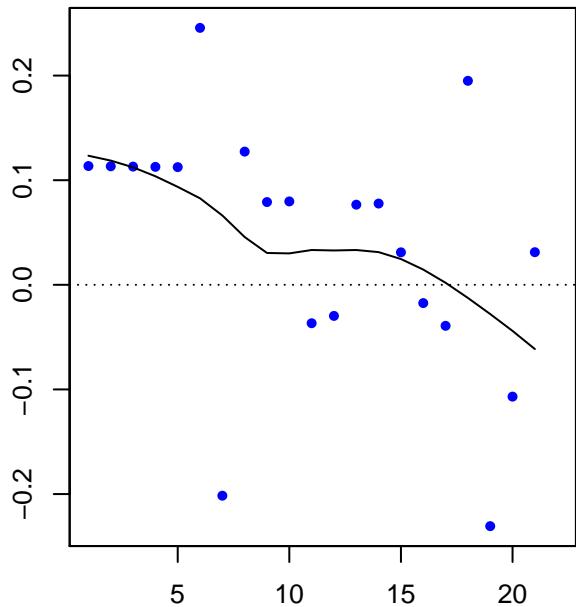
State X.SJF

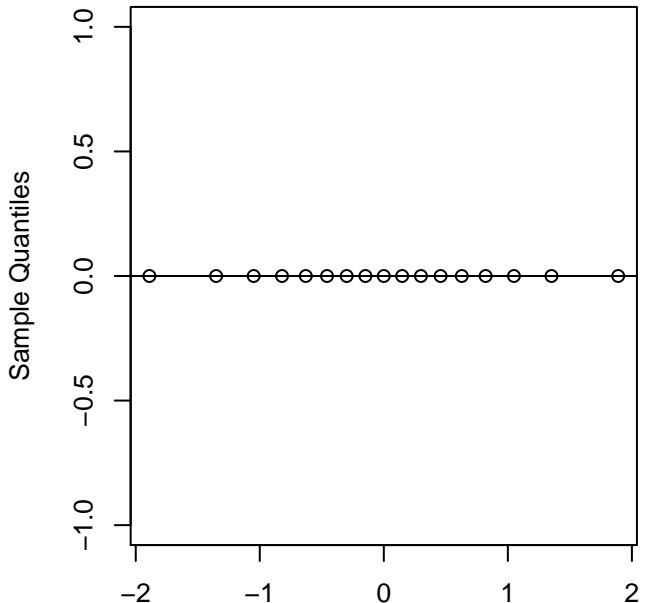
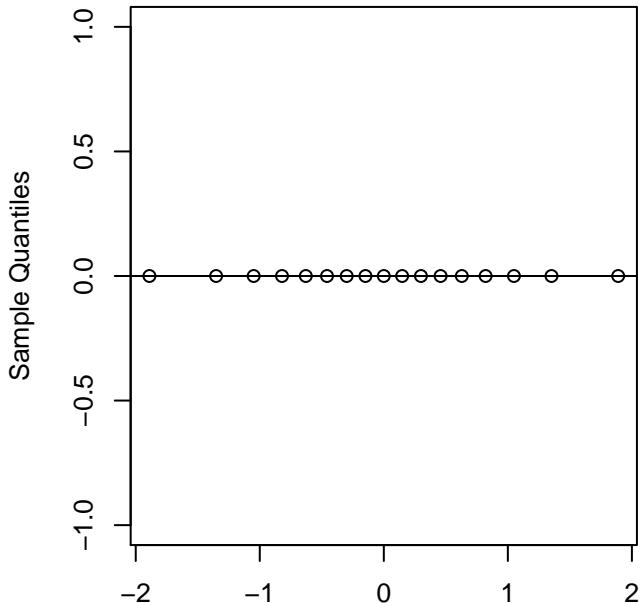
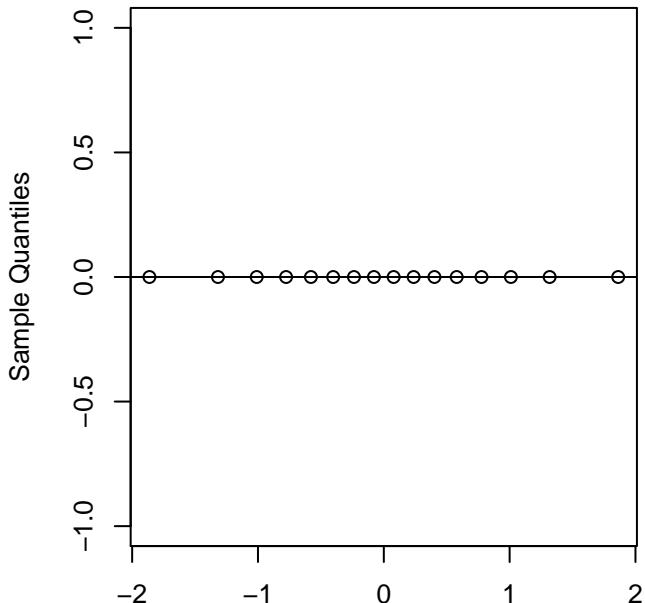


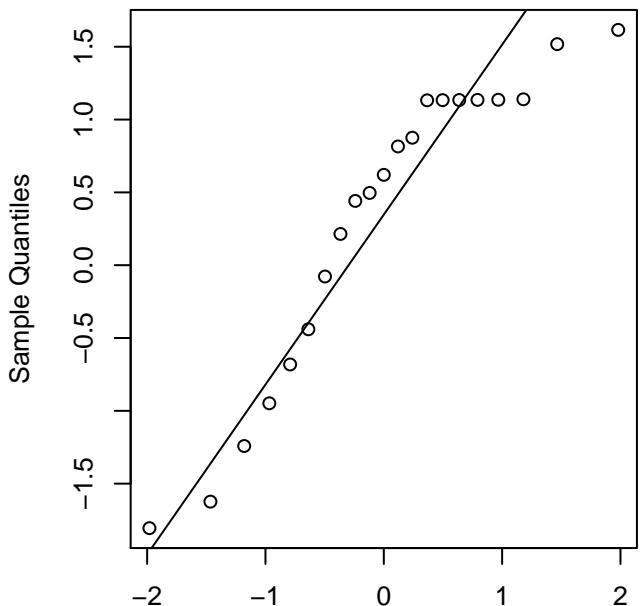
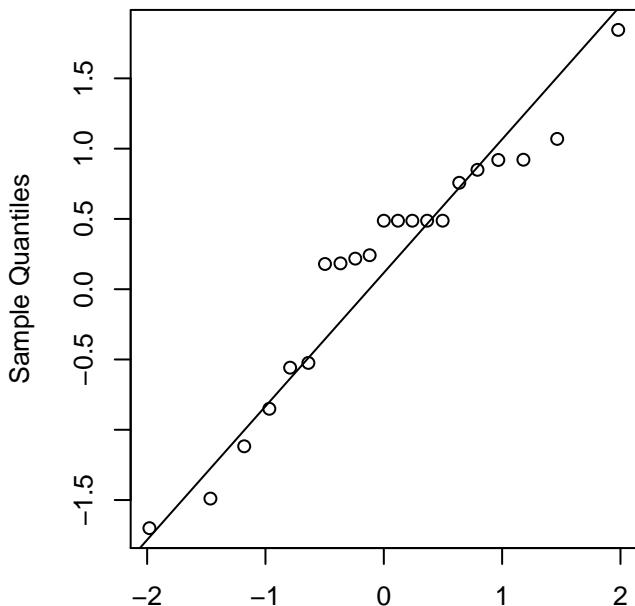
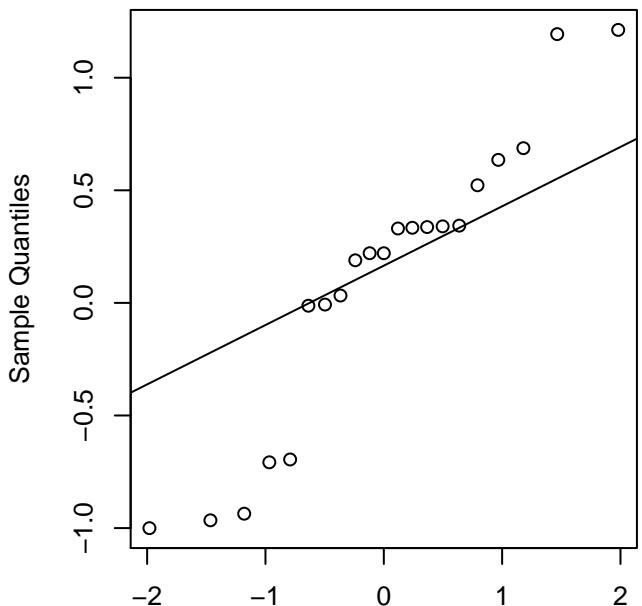
State X.SJI

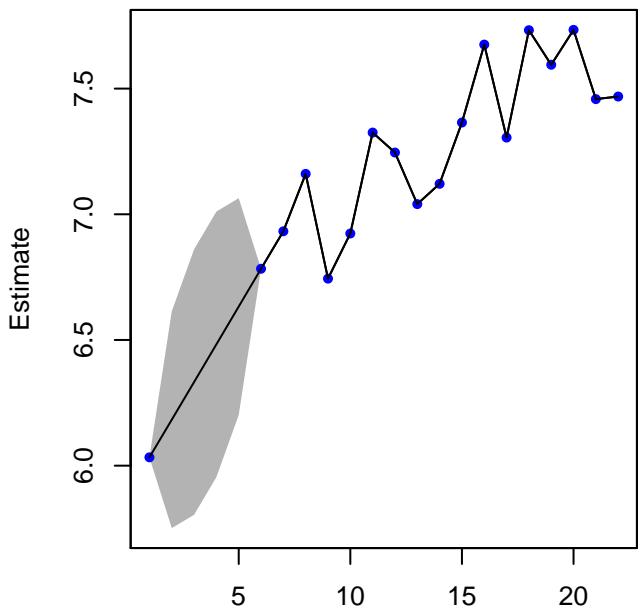
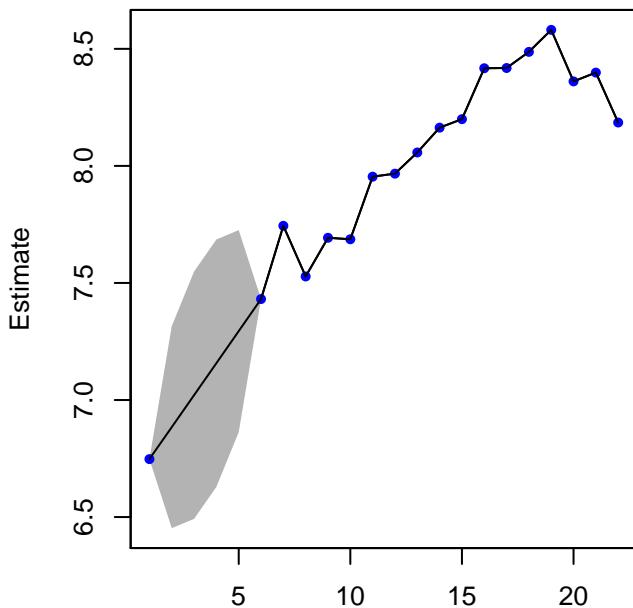
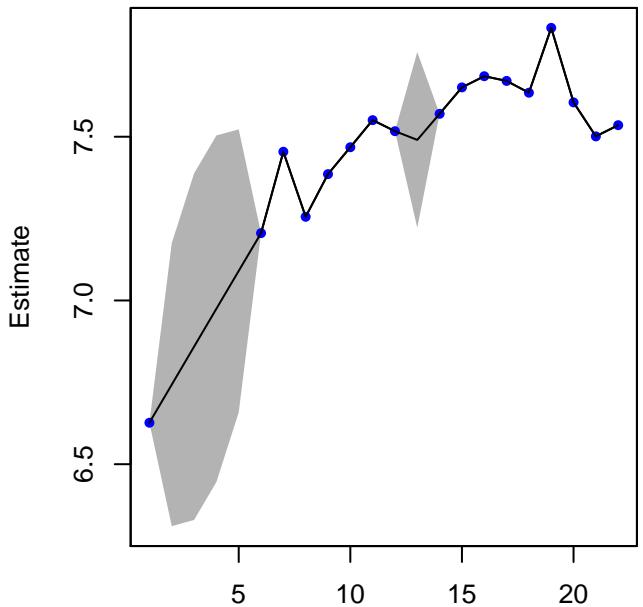


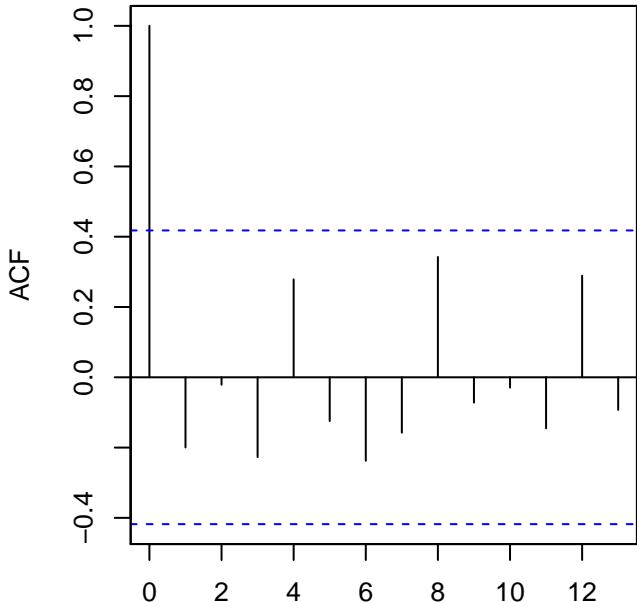
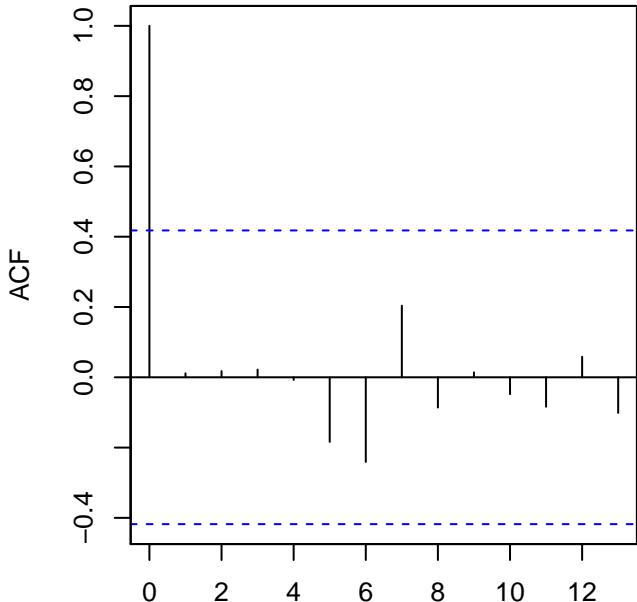
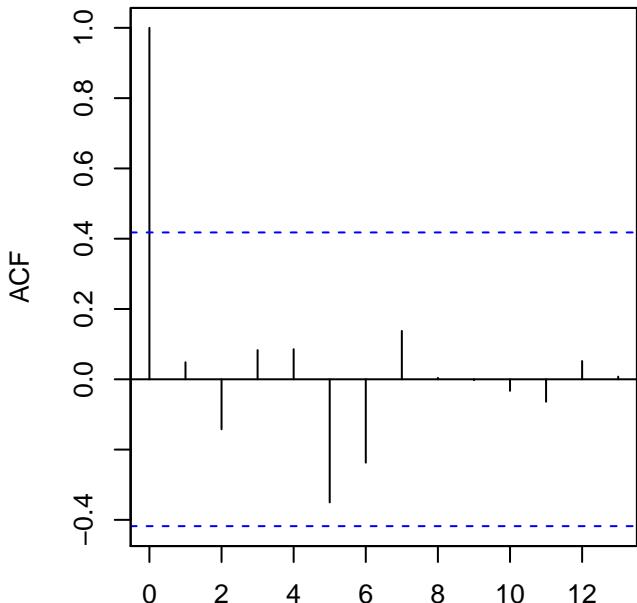
State X.EBays



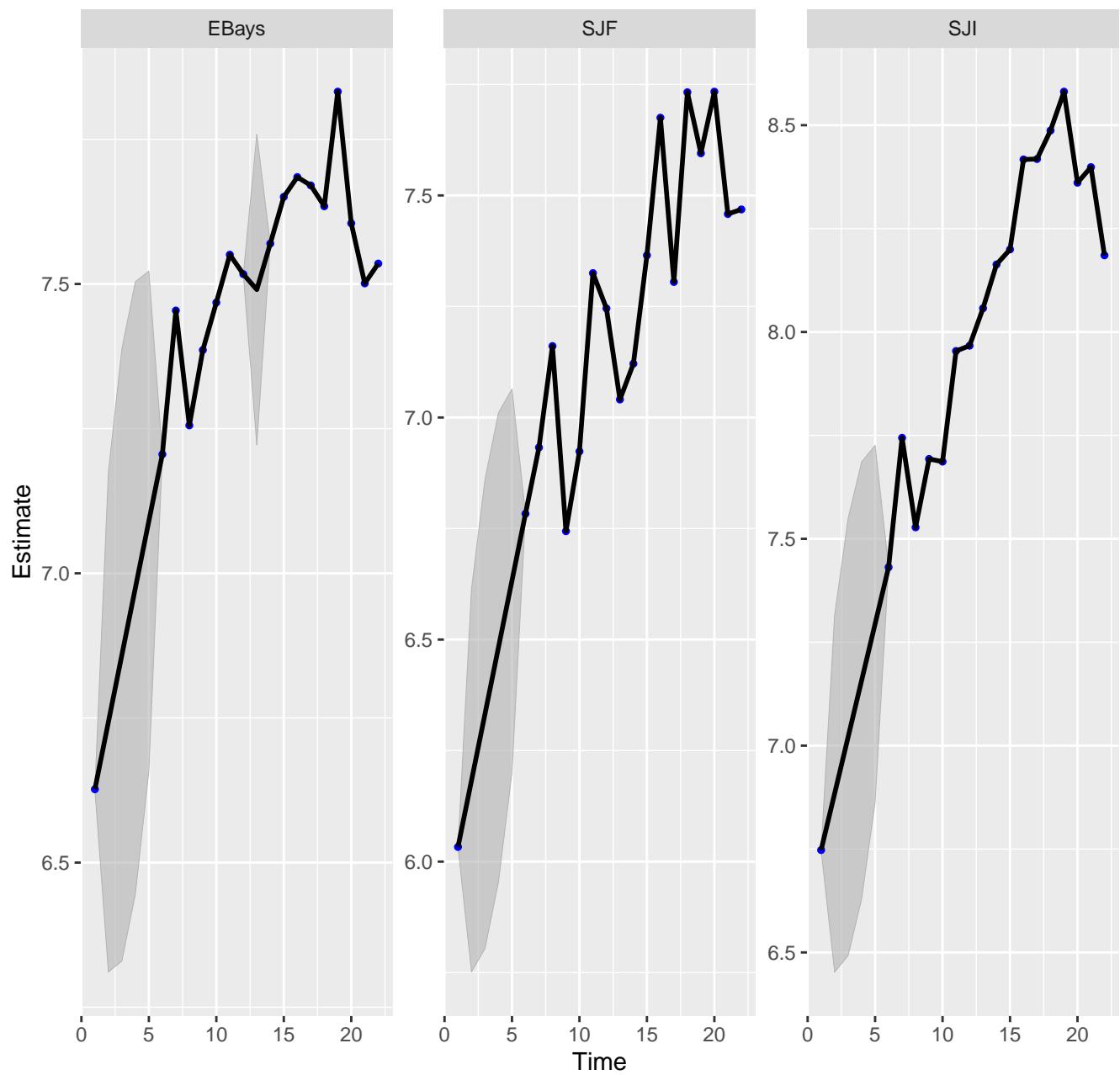
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

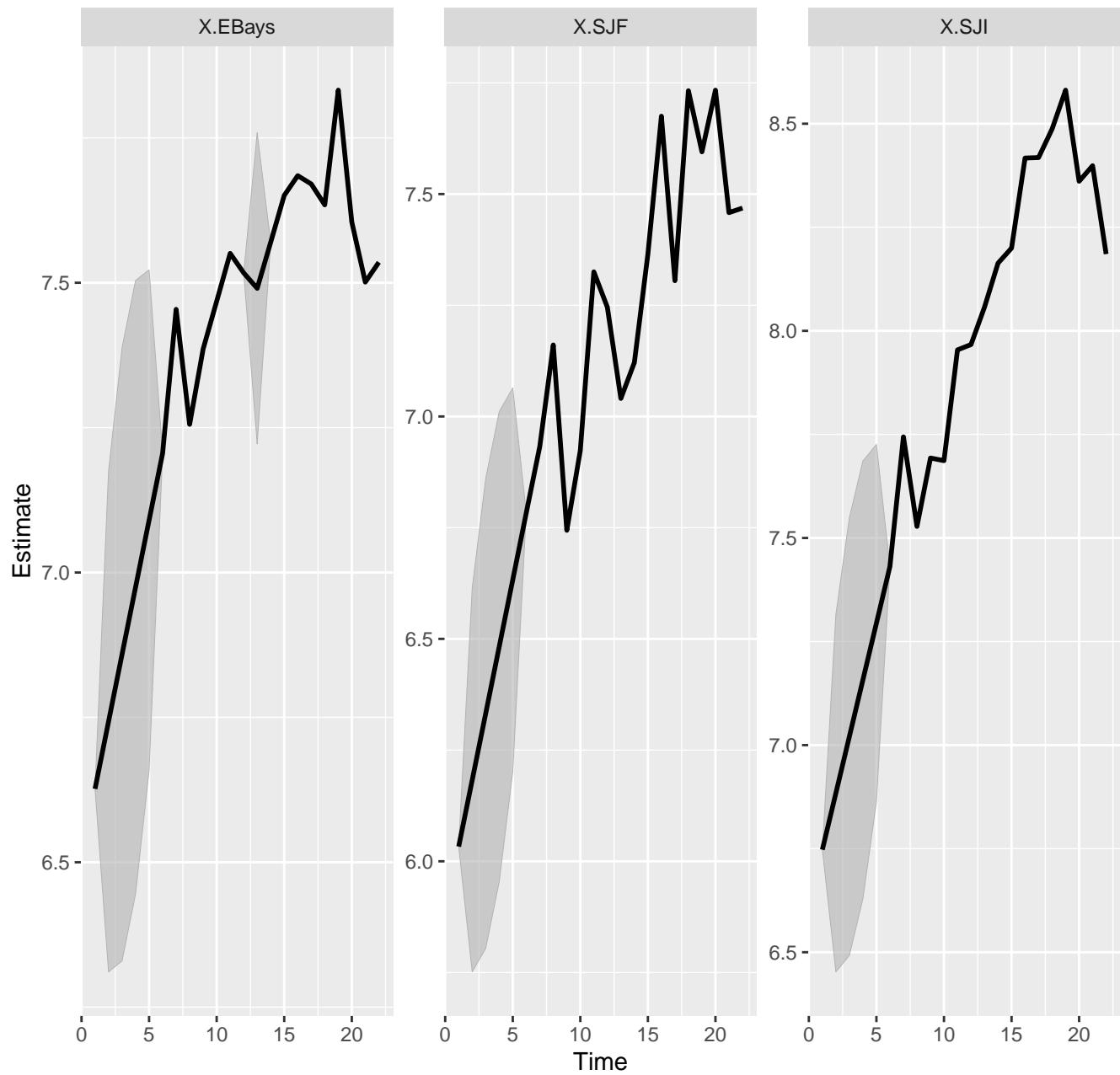
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

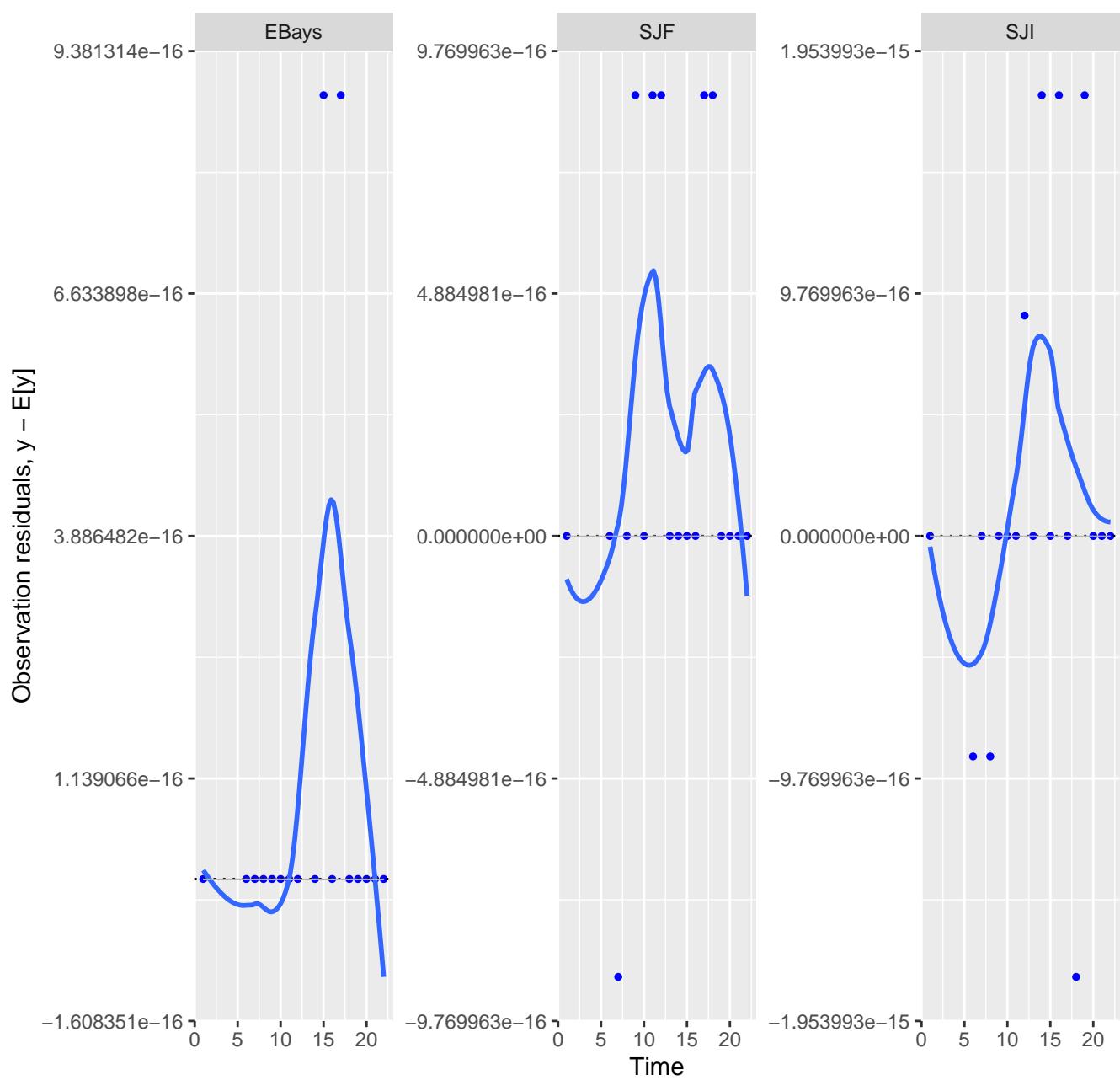
Model fitted Y + CI



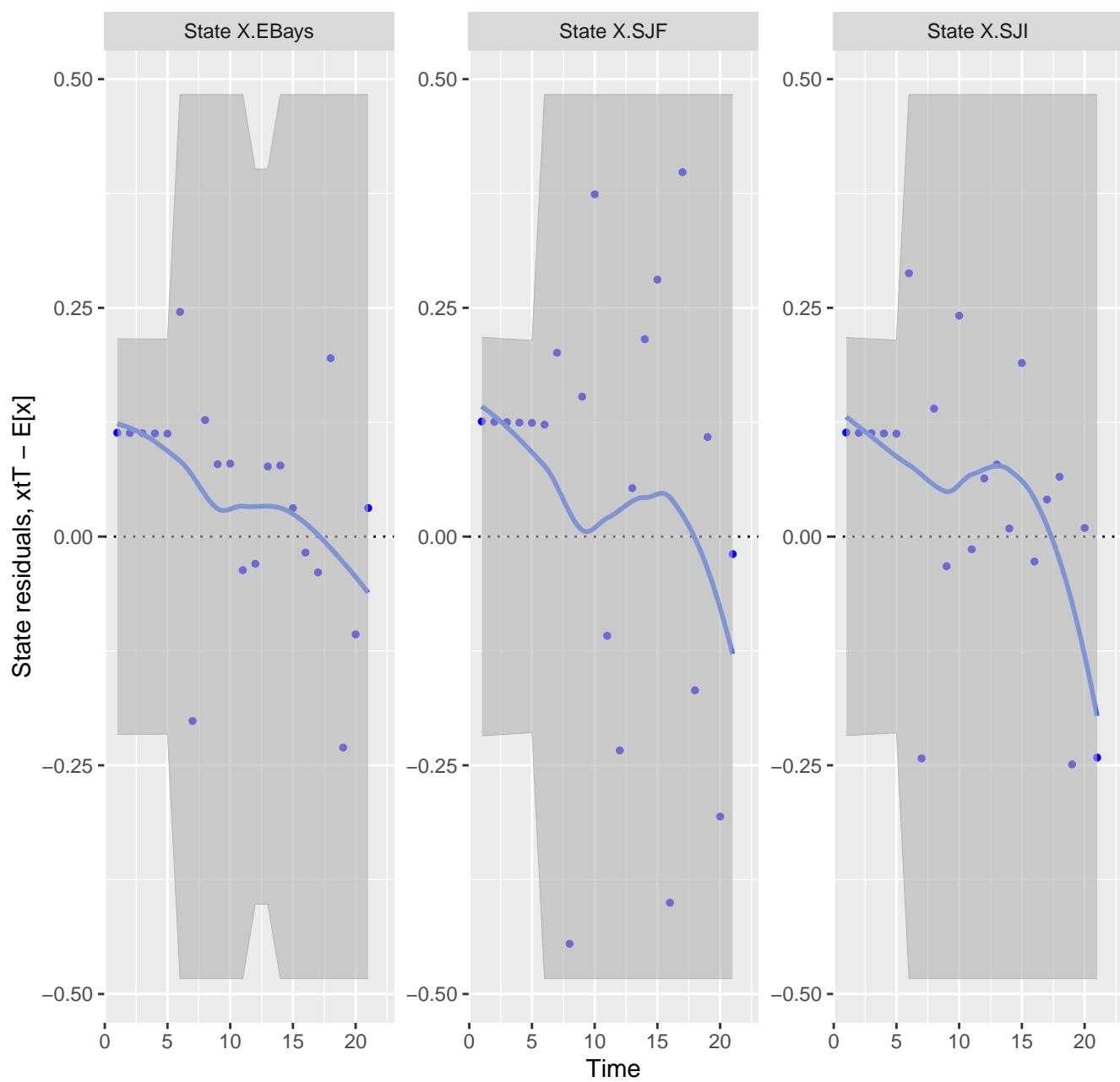
States



Model residuals

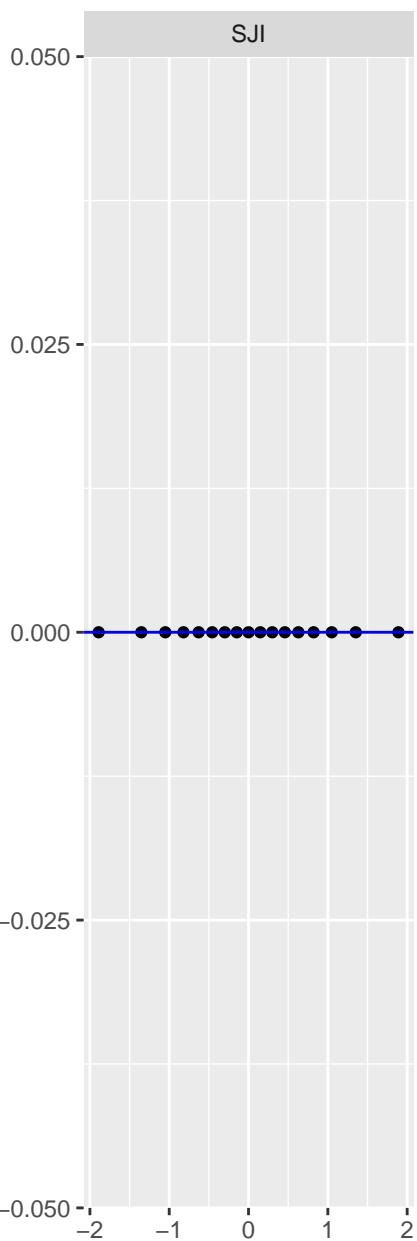
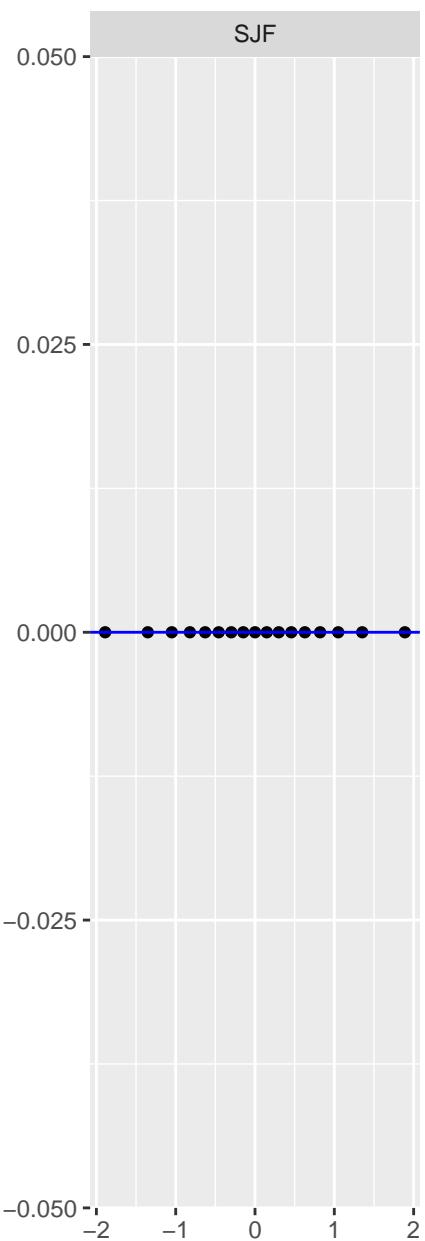
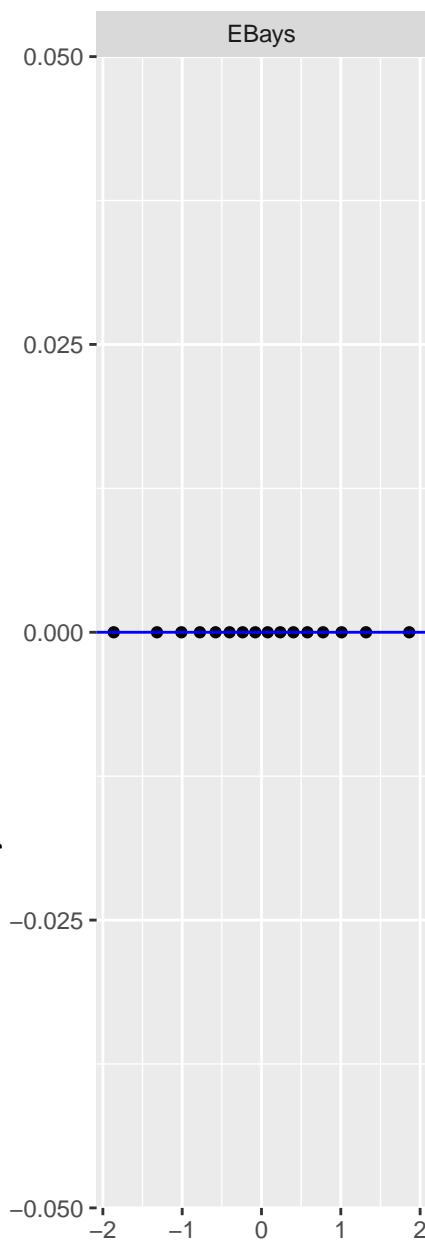


State residuals



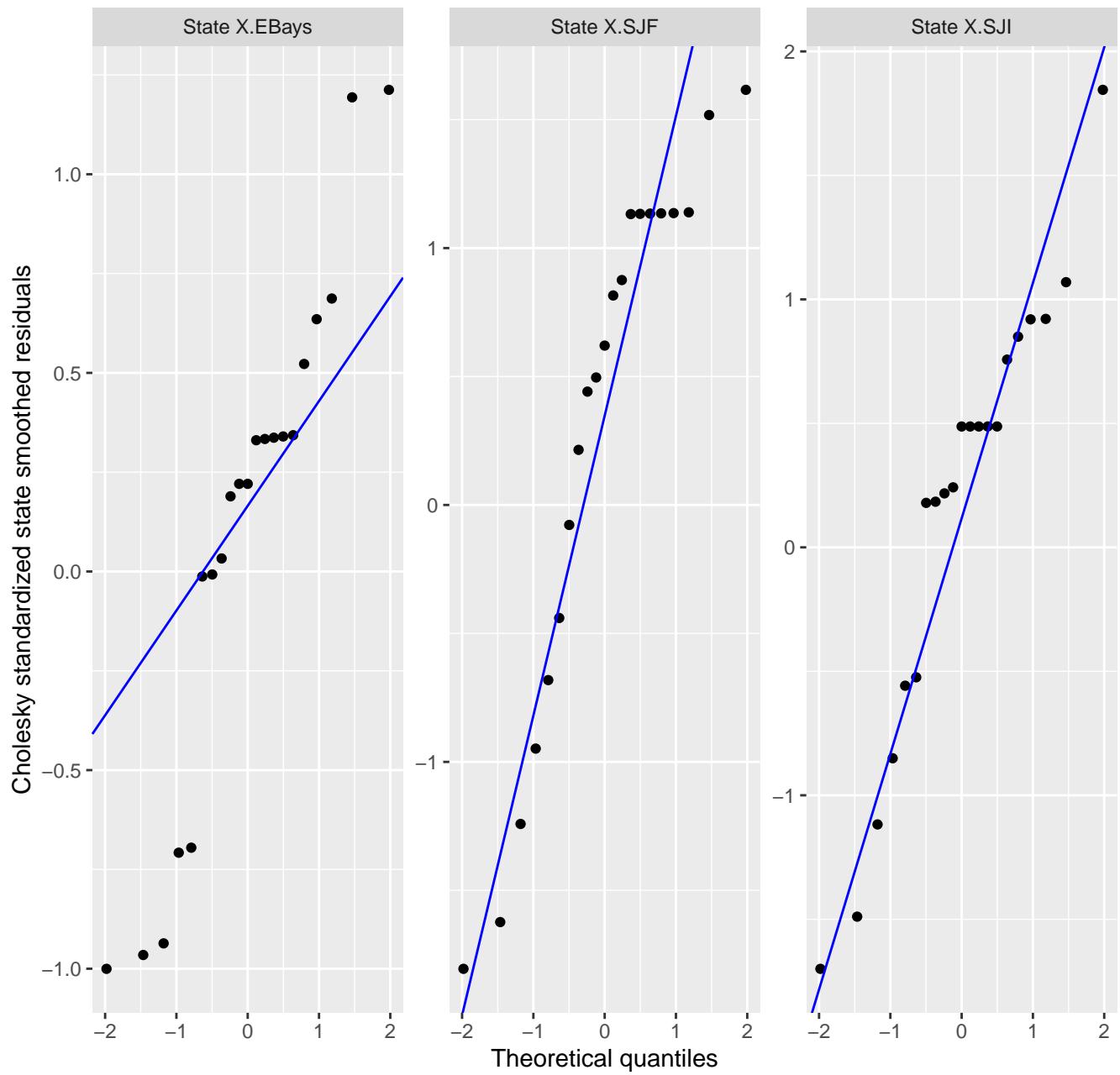
Model residuals normality test

Cholesky standardized model smoothed residuals

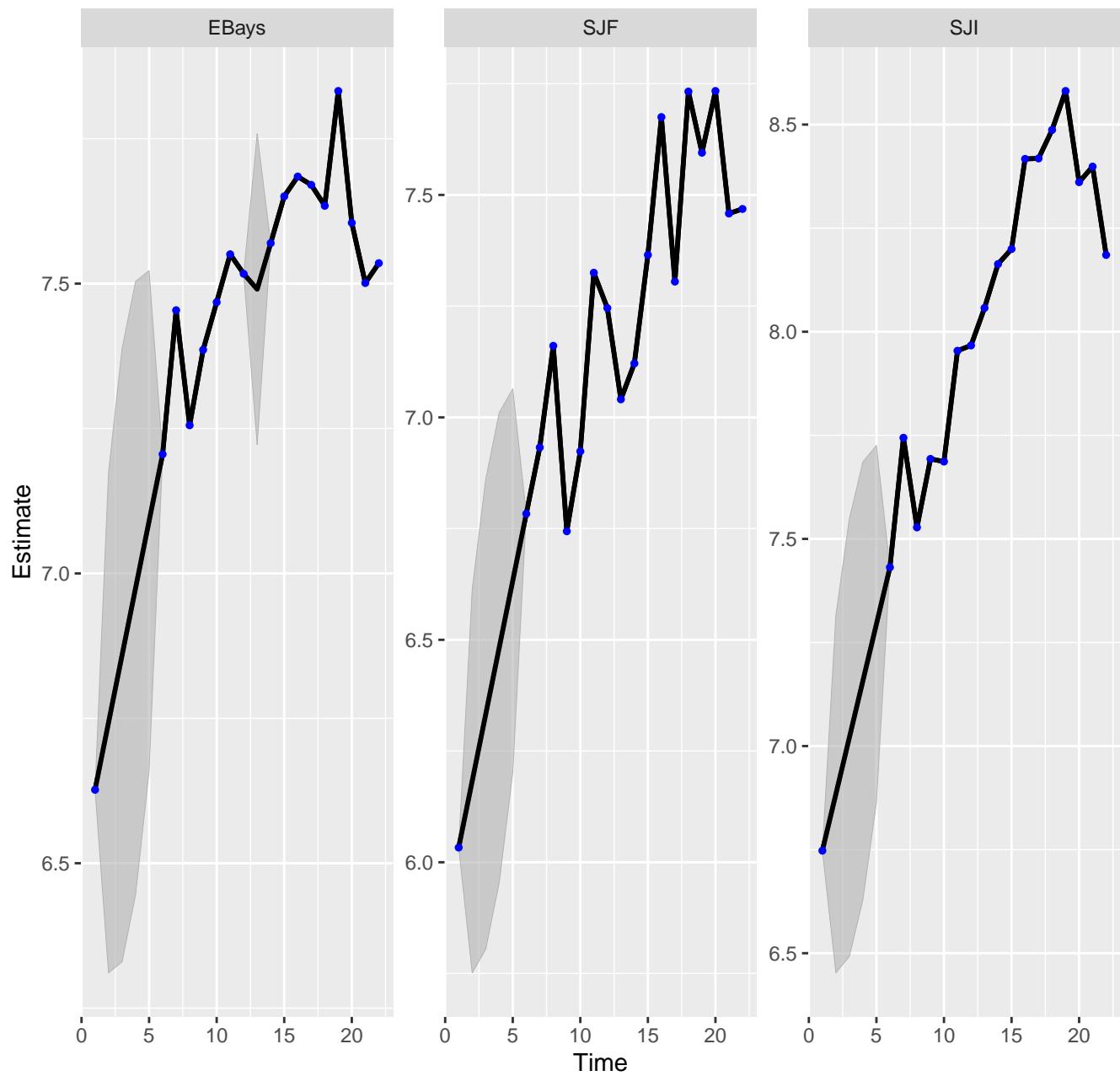


Theoretical quantiles

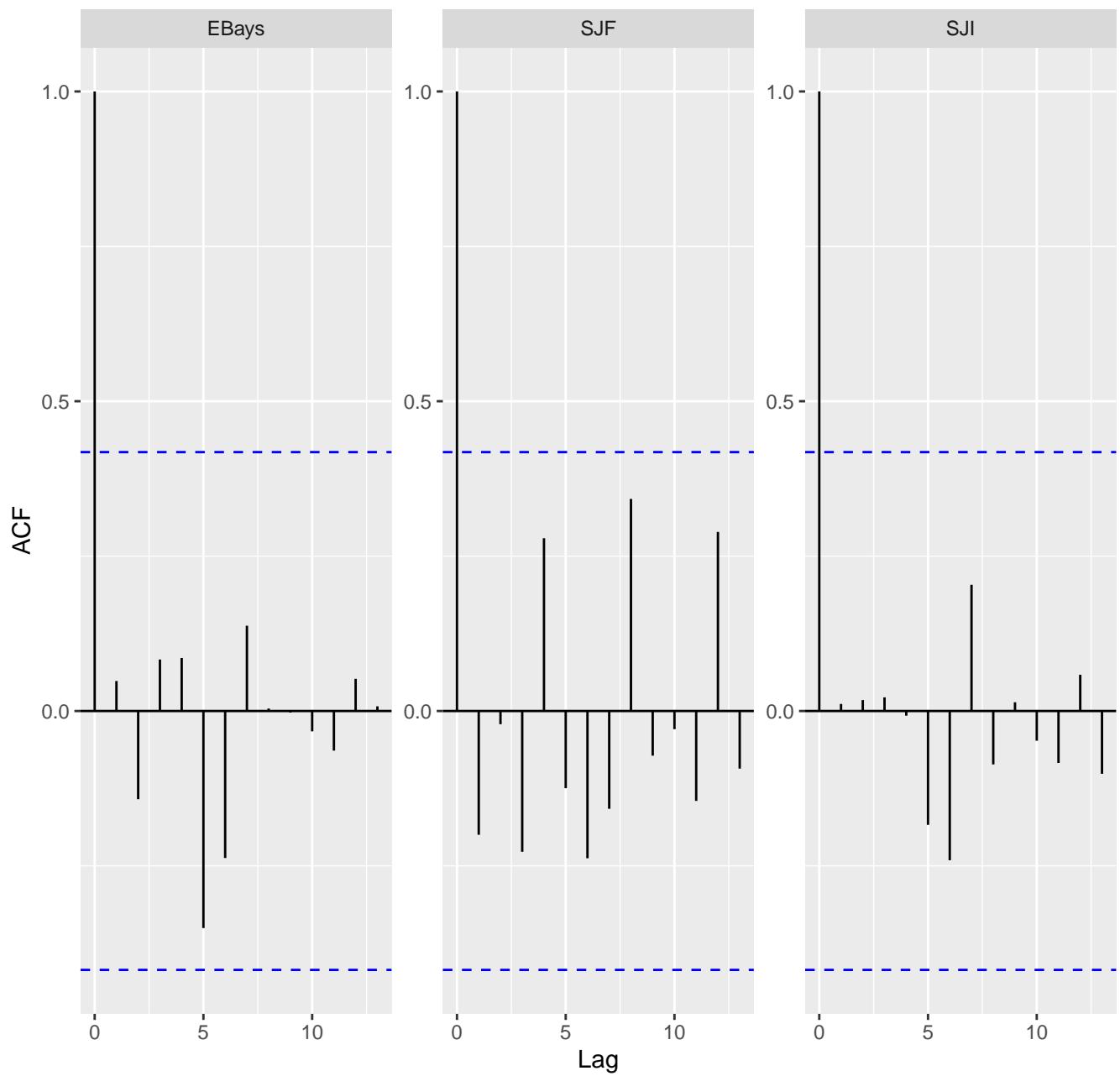
State residuals normality test

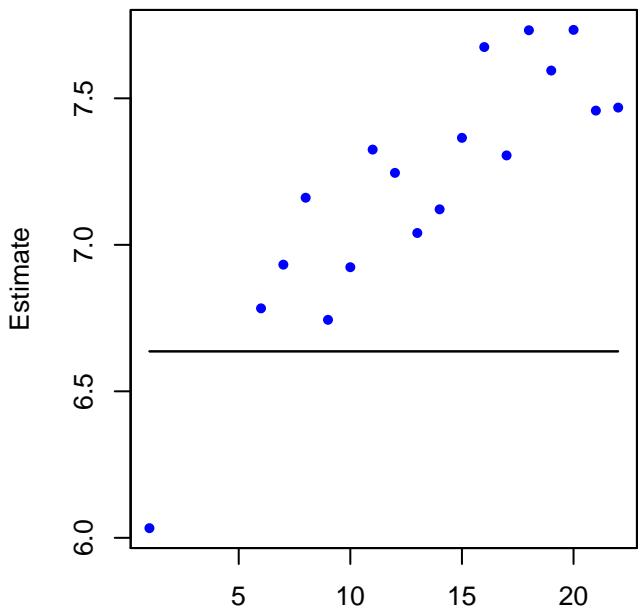
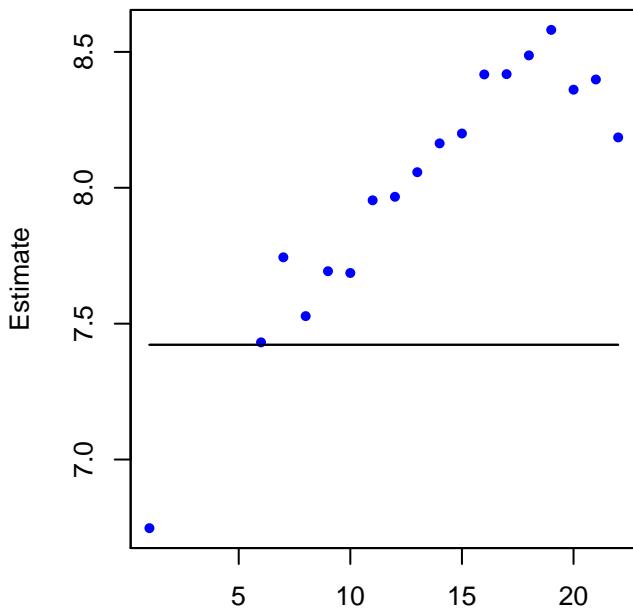
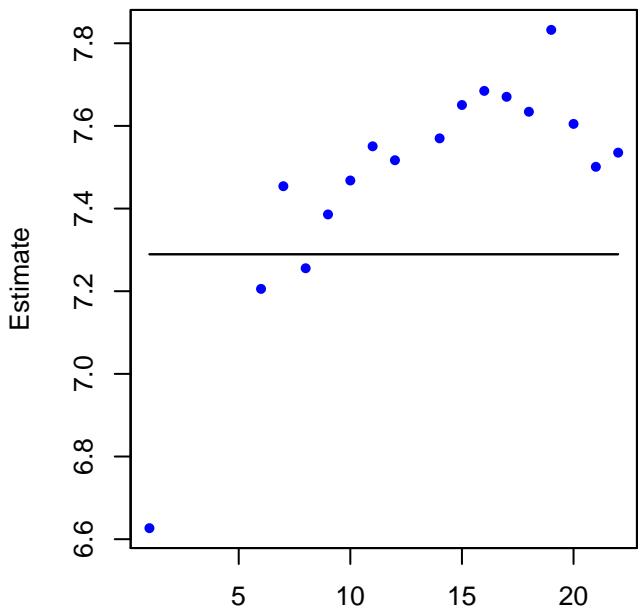


Expected value of Y conditioned on data

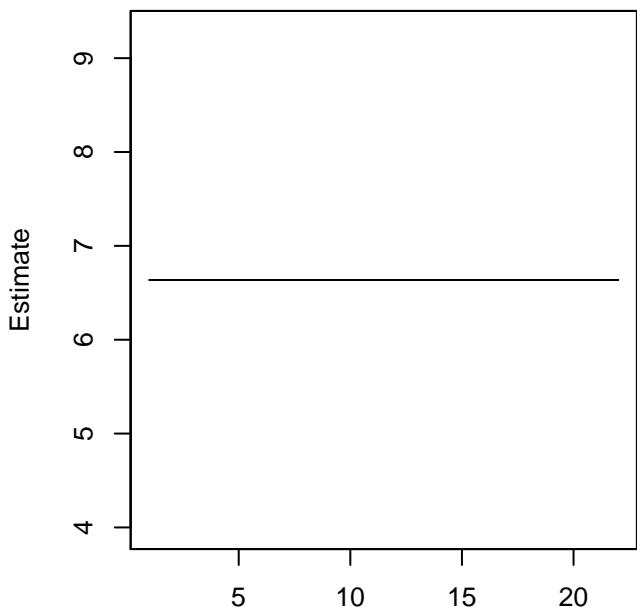


Model innovations residuals ACF

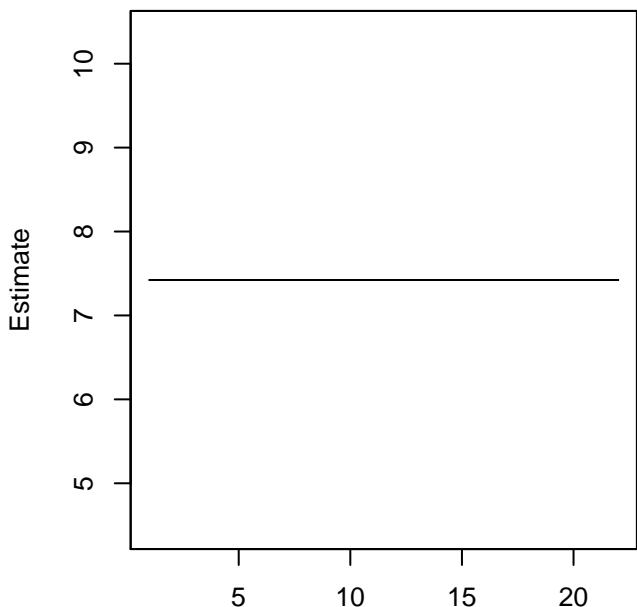


SJF + CI**SJI + CI****EBays + CI**

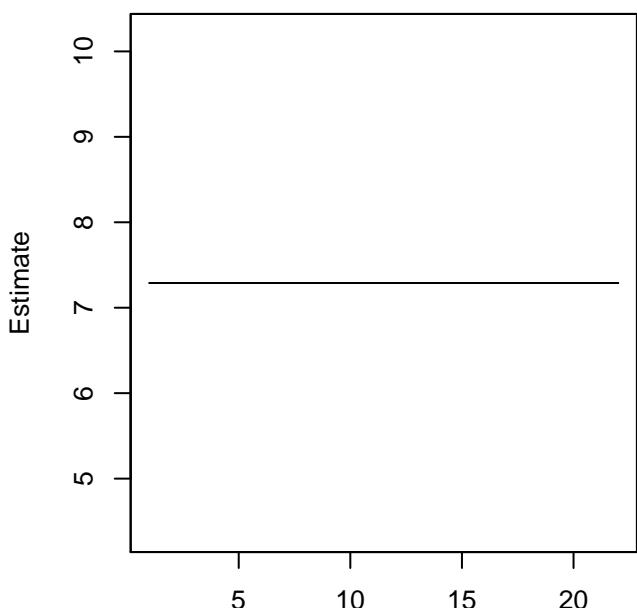
State X.SJF



State X.SJI

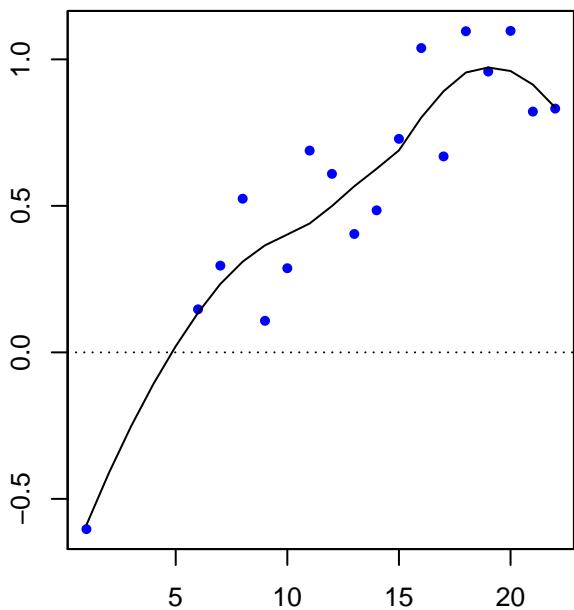


State X.EBays

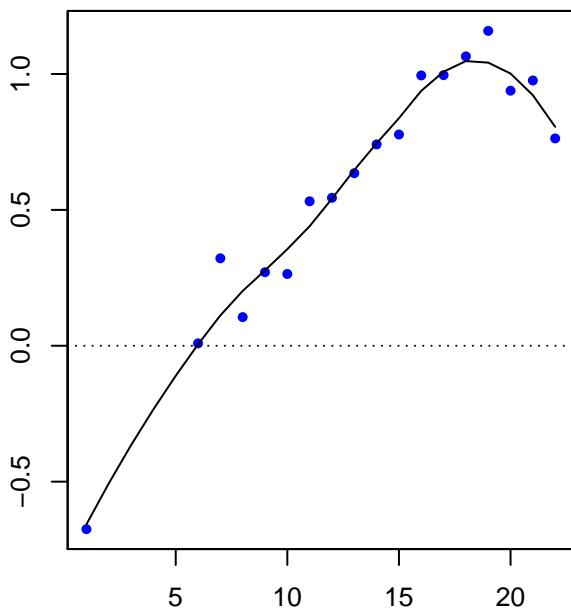


Observation residuals, $y - E[y]$

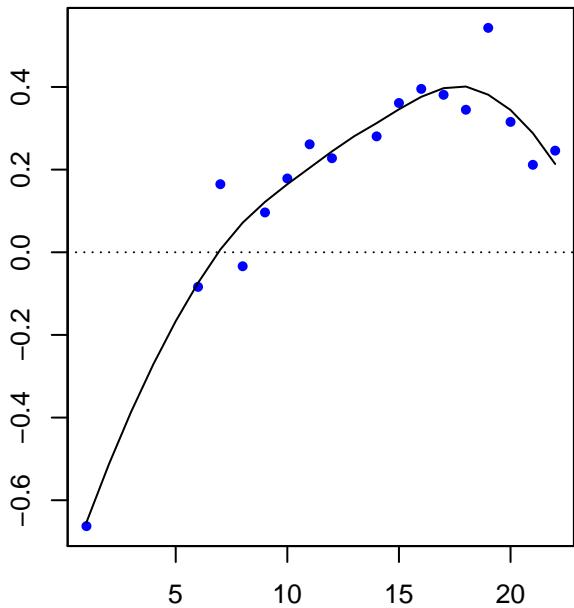
SJF



SJI

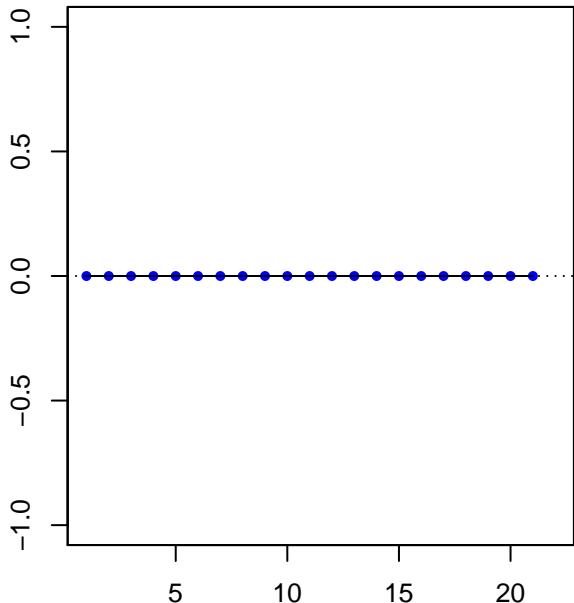


EBays

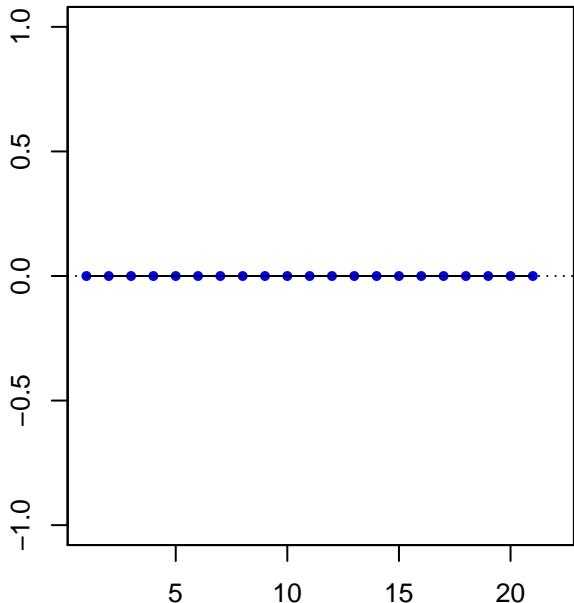


State residuals, $x_{tT} - E[x]$

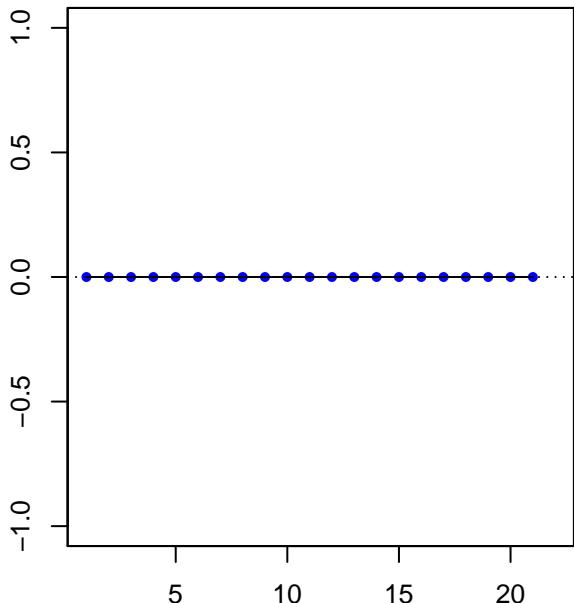
State X.SJF

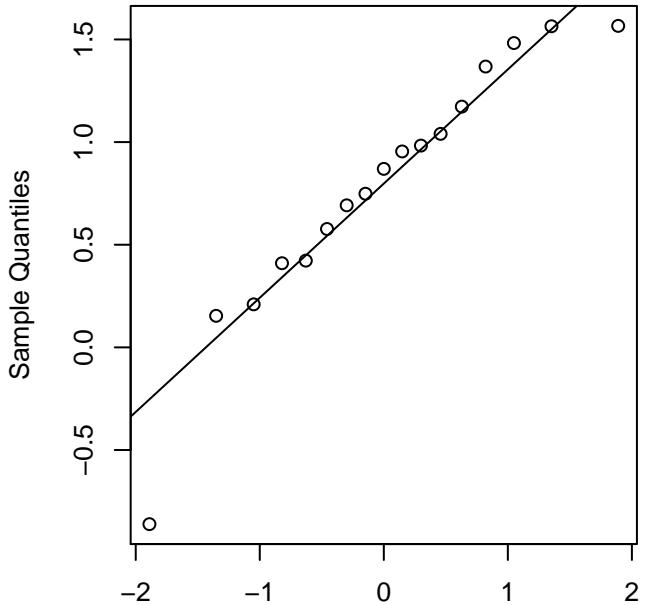
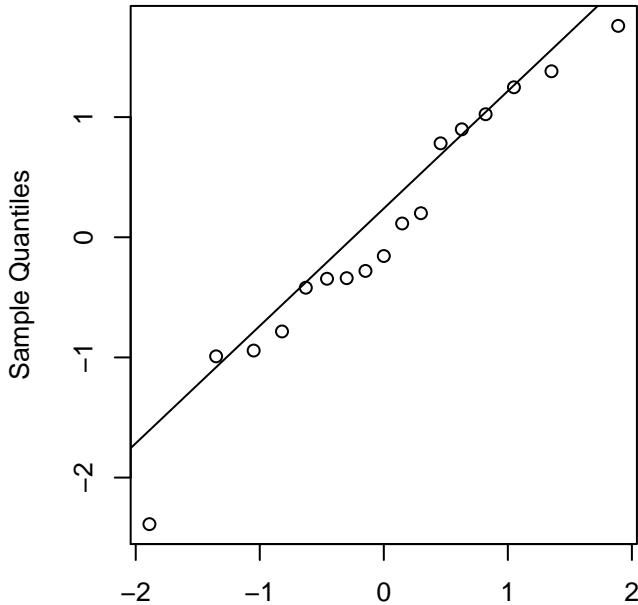
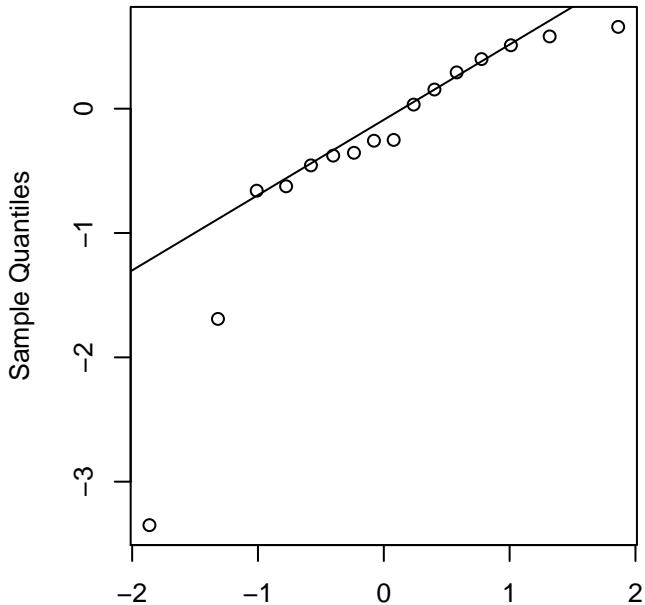


State X.SJI

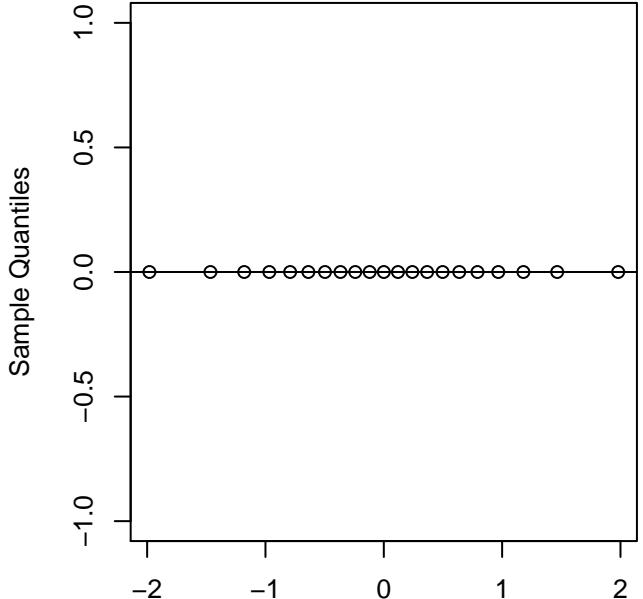


State X.EBays

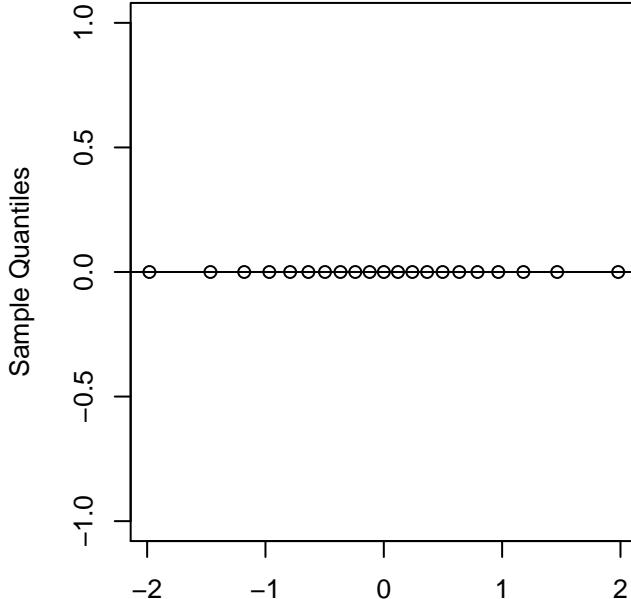


SJF**SJI****EBays**

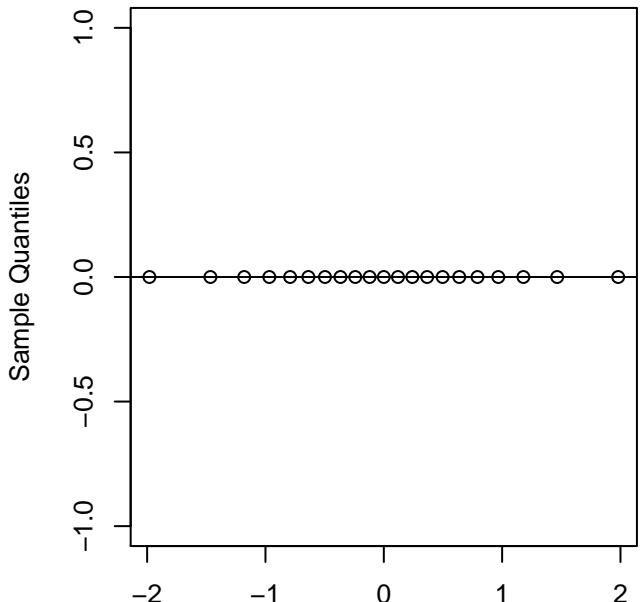
State X.SJF

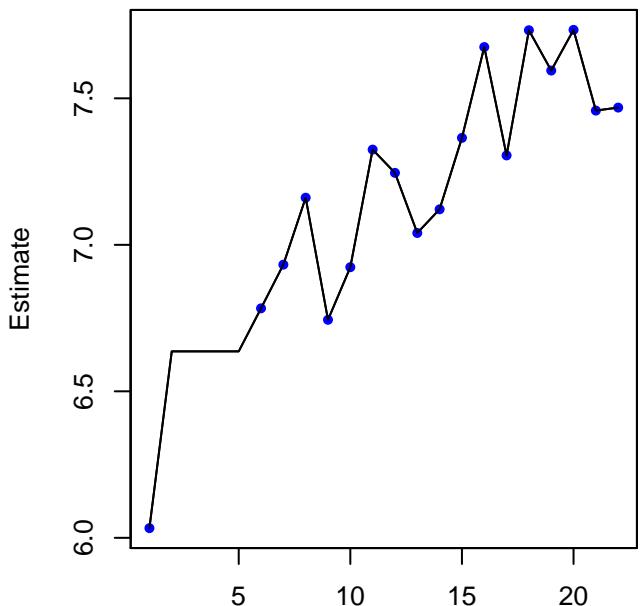
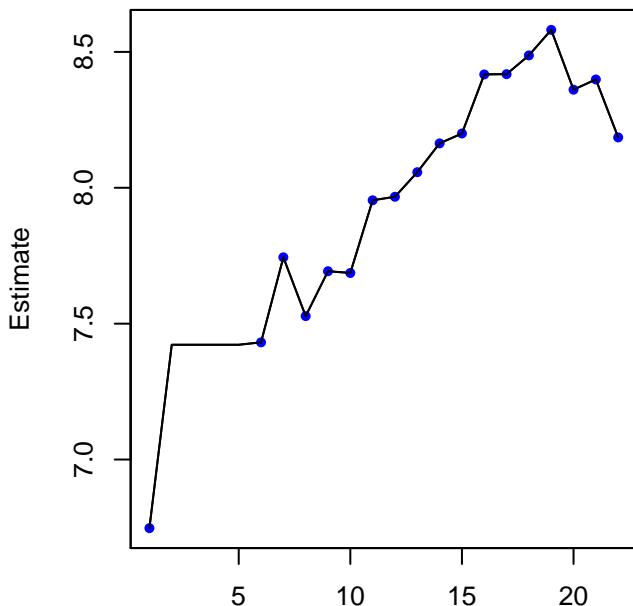
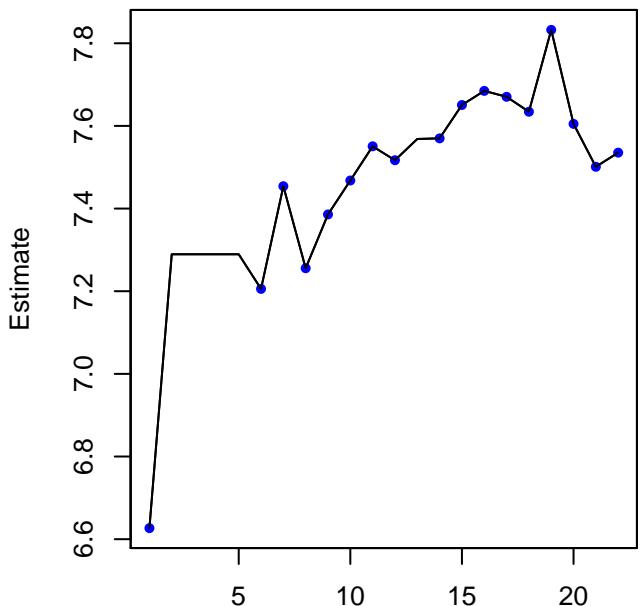


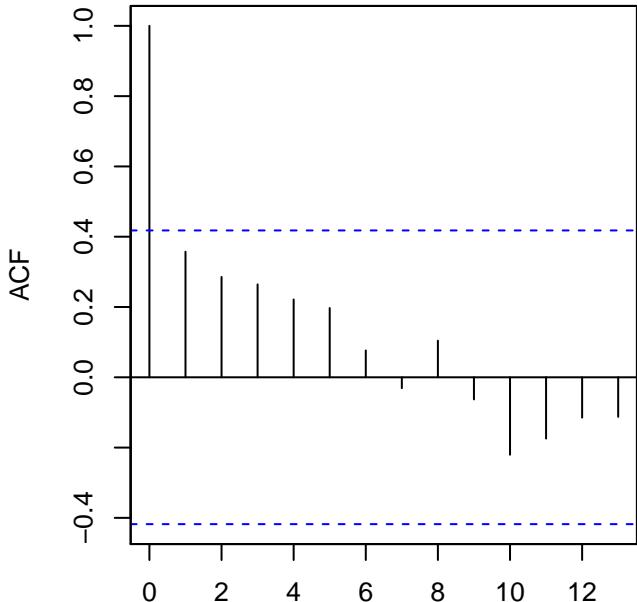
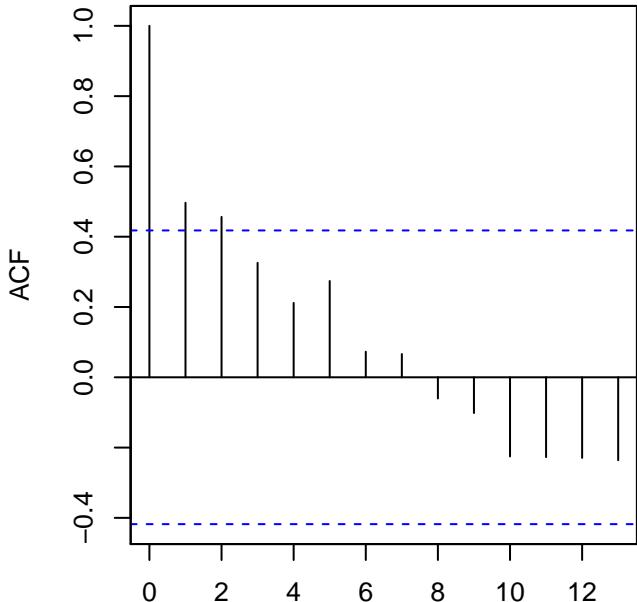
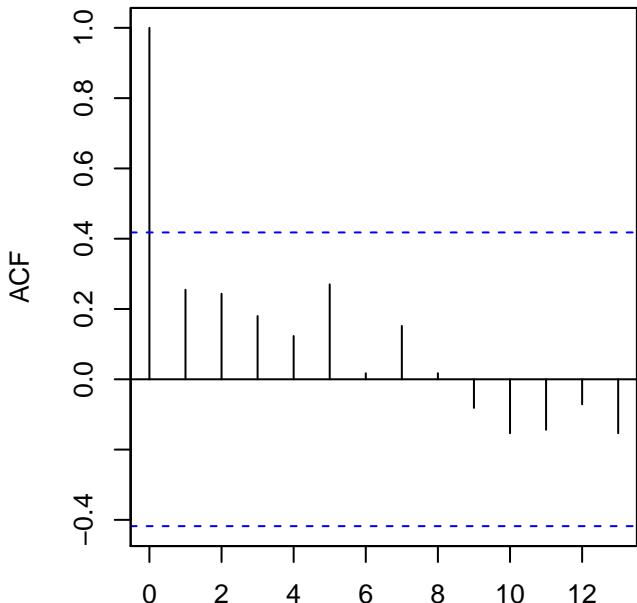
State X.SJI



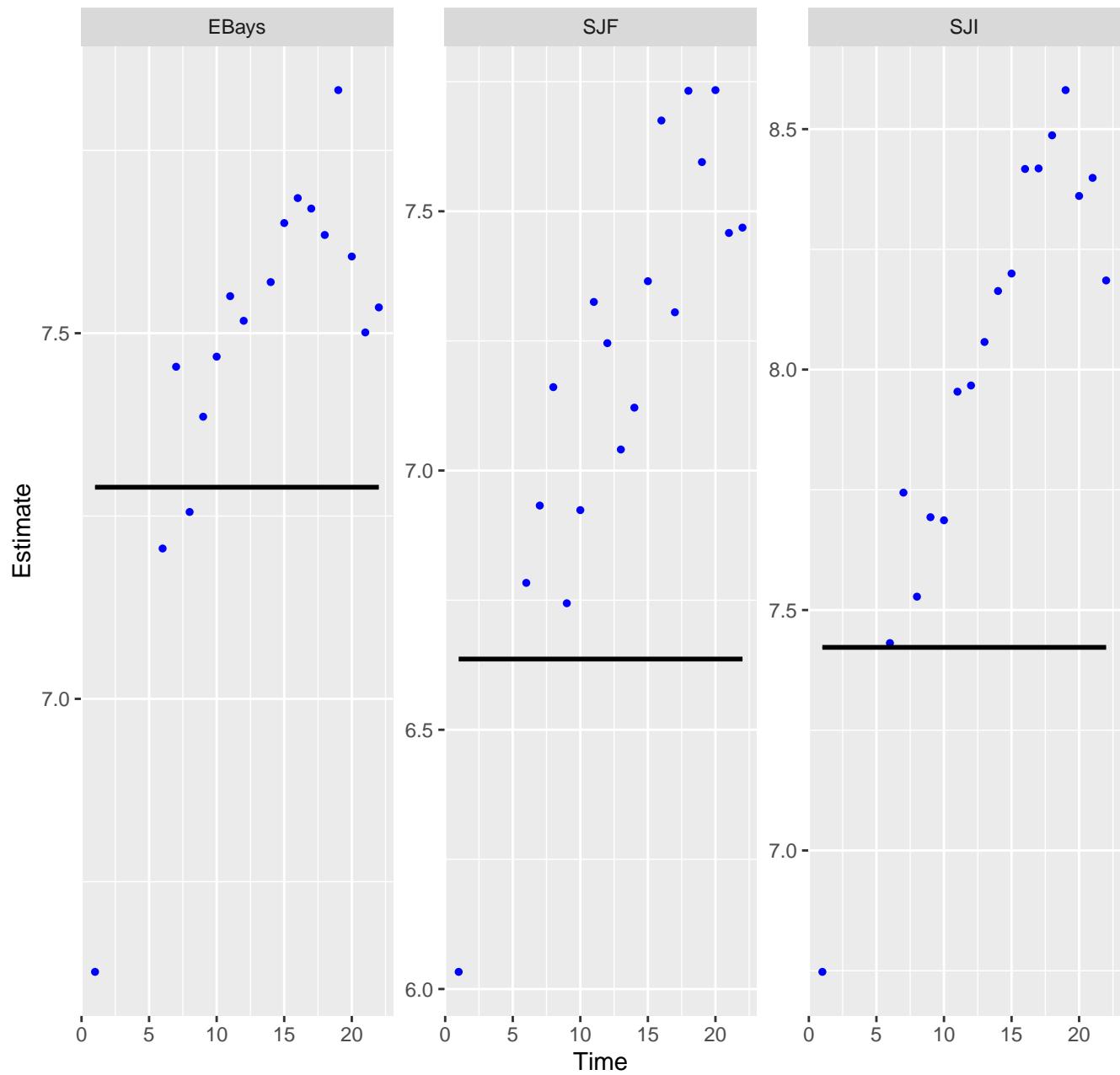
State X.EBays



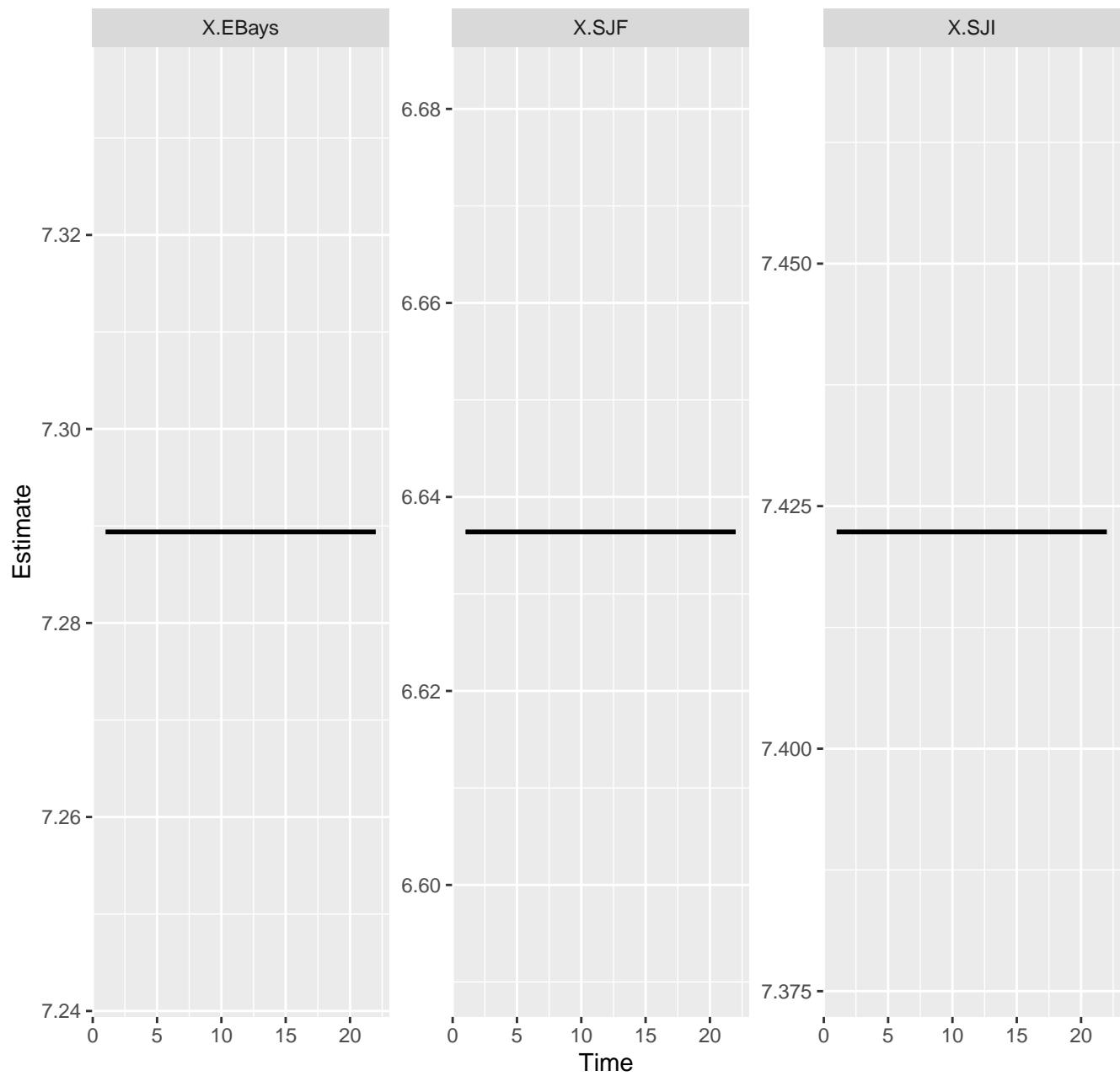
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

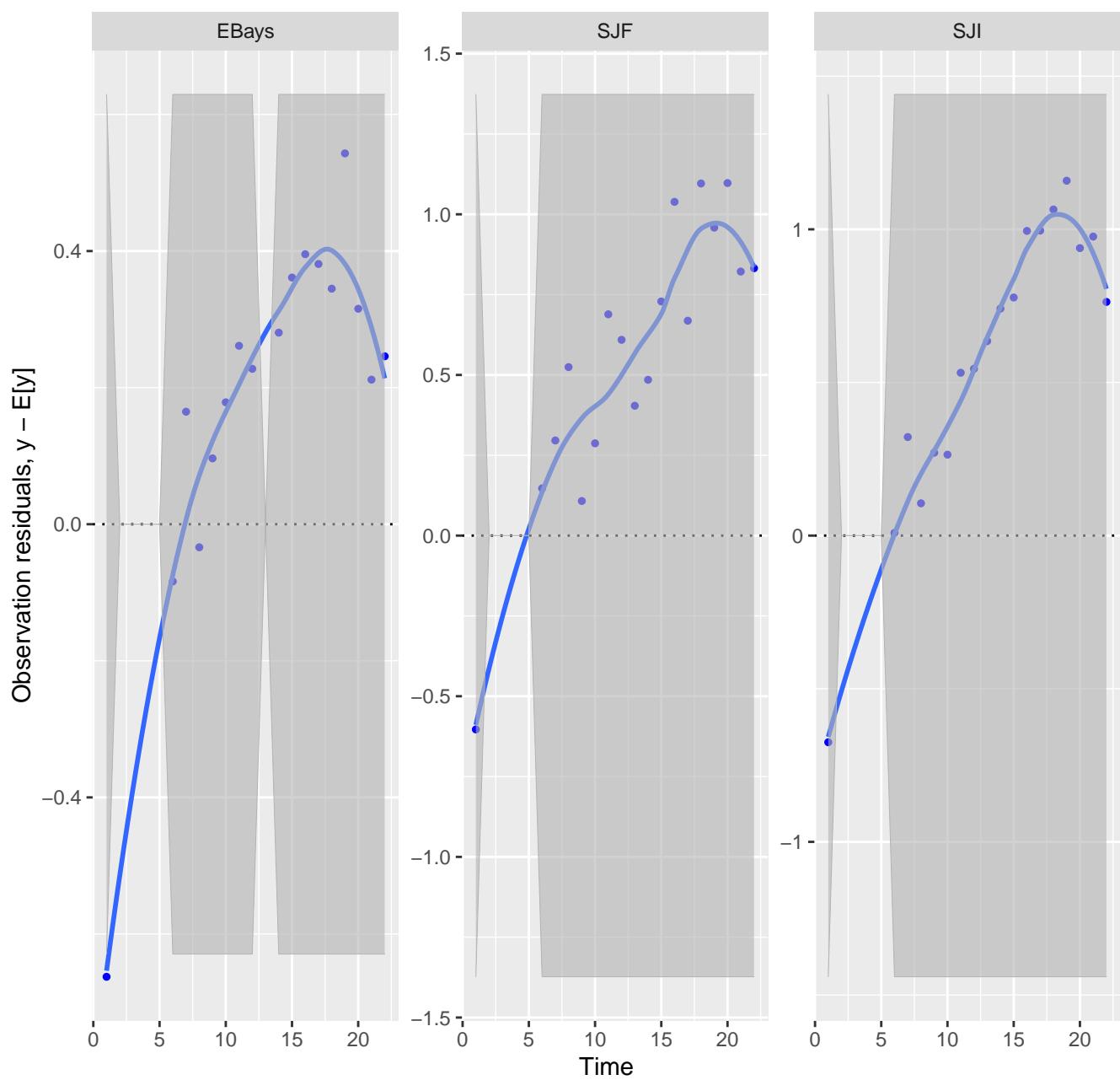
Model fitted Y + CI



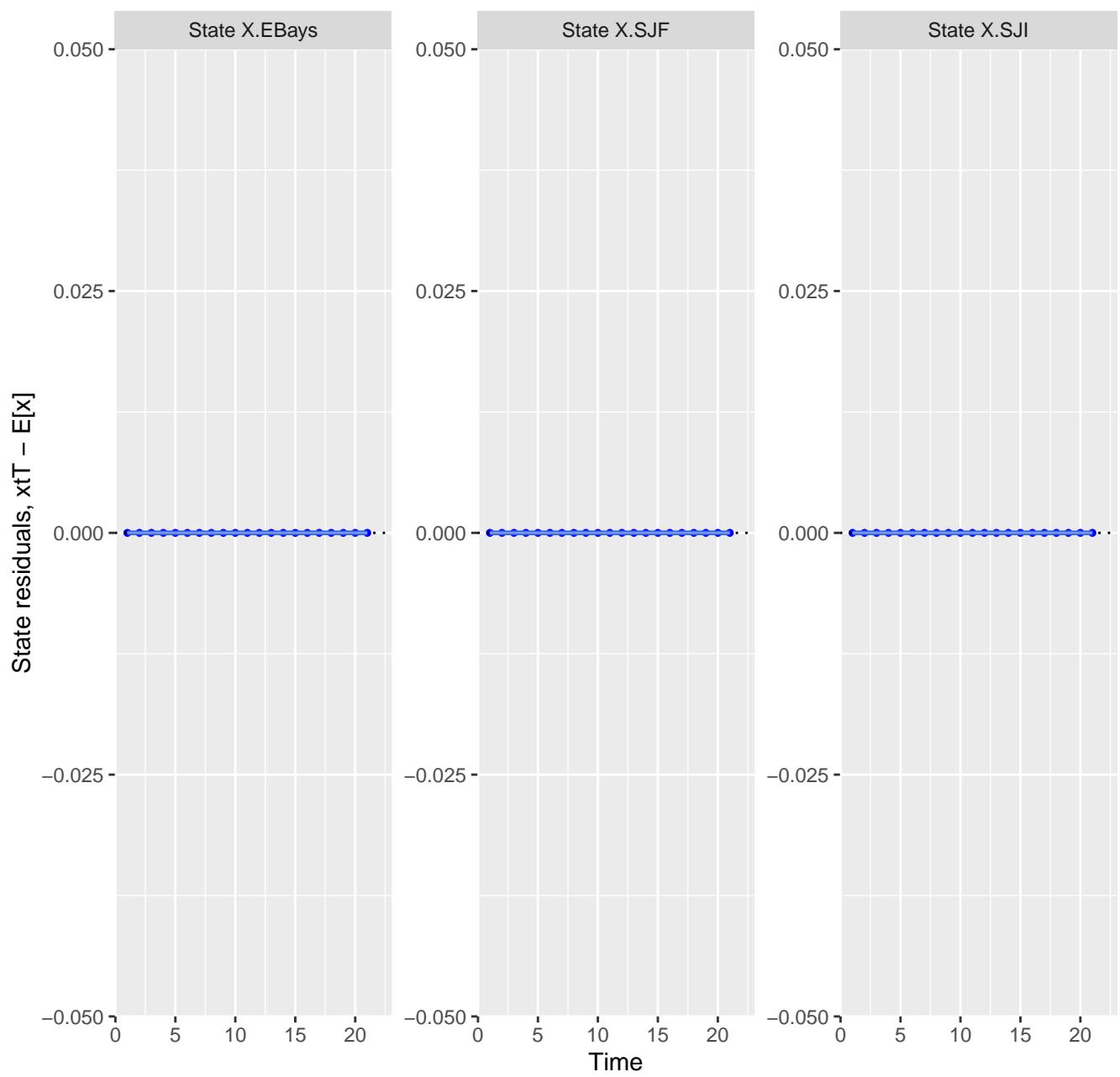
States



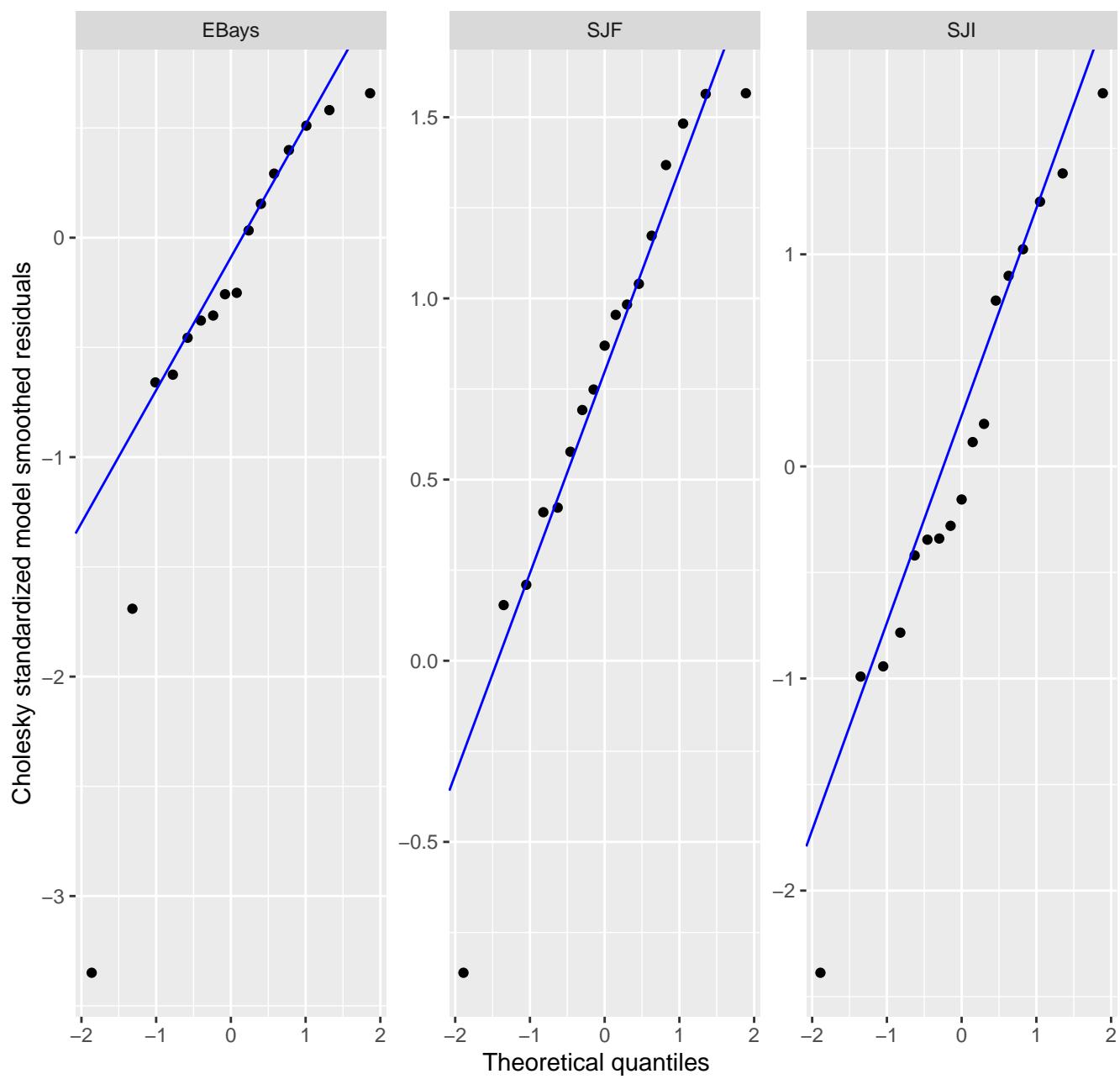
Model residuals



State residuals

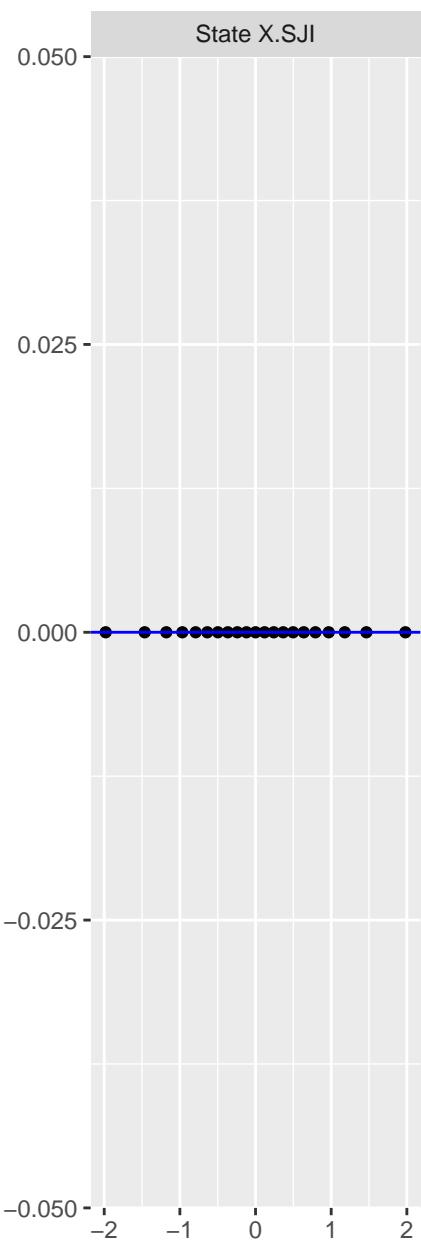
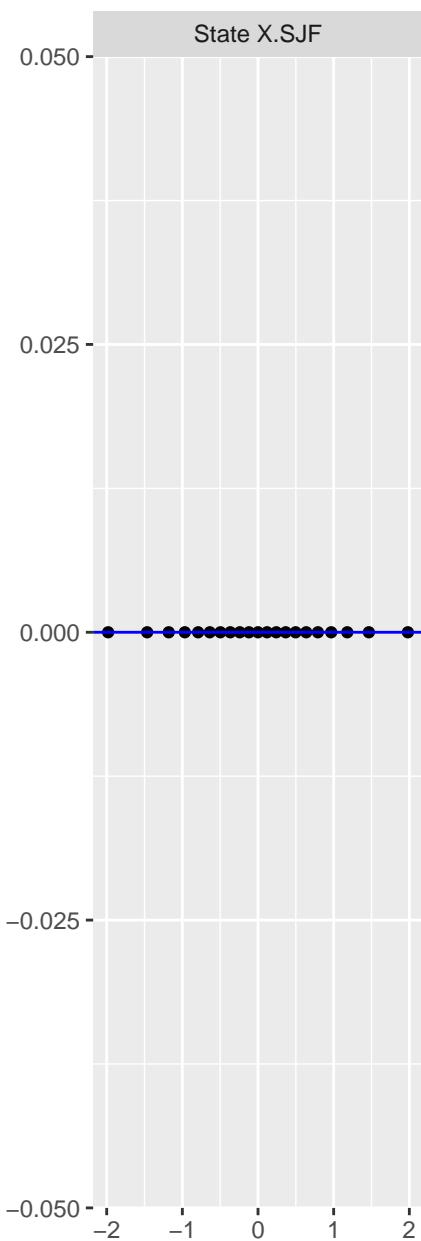
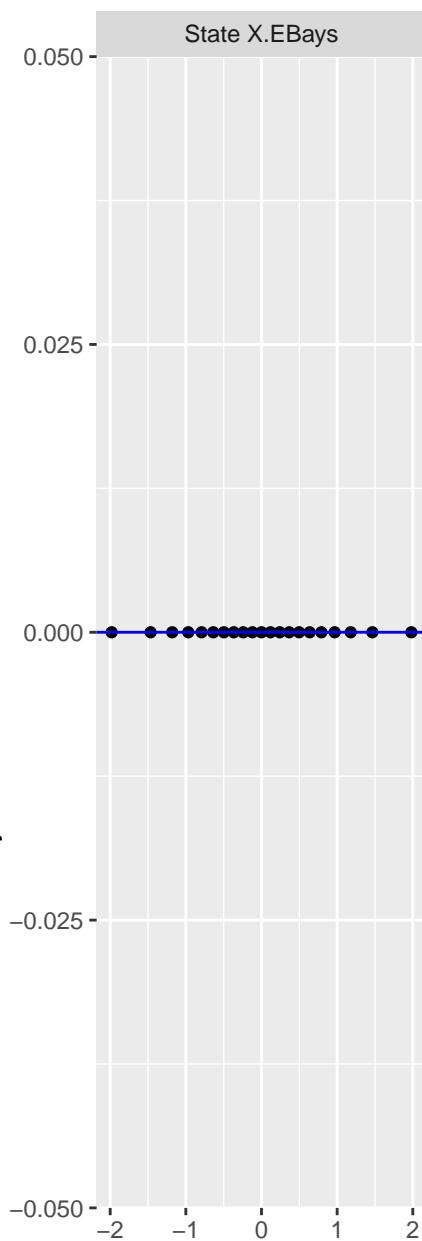


Model residuals normality test

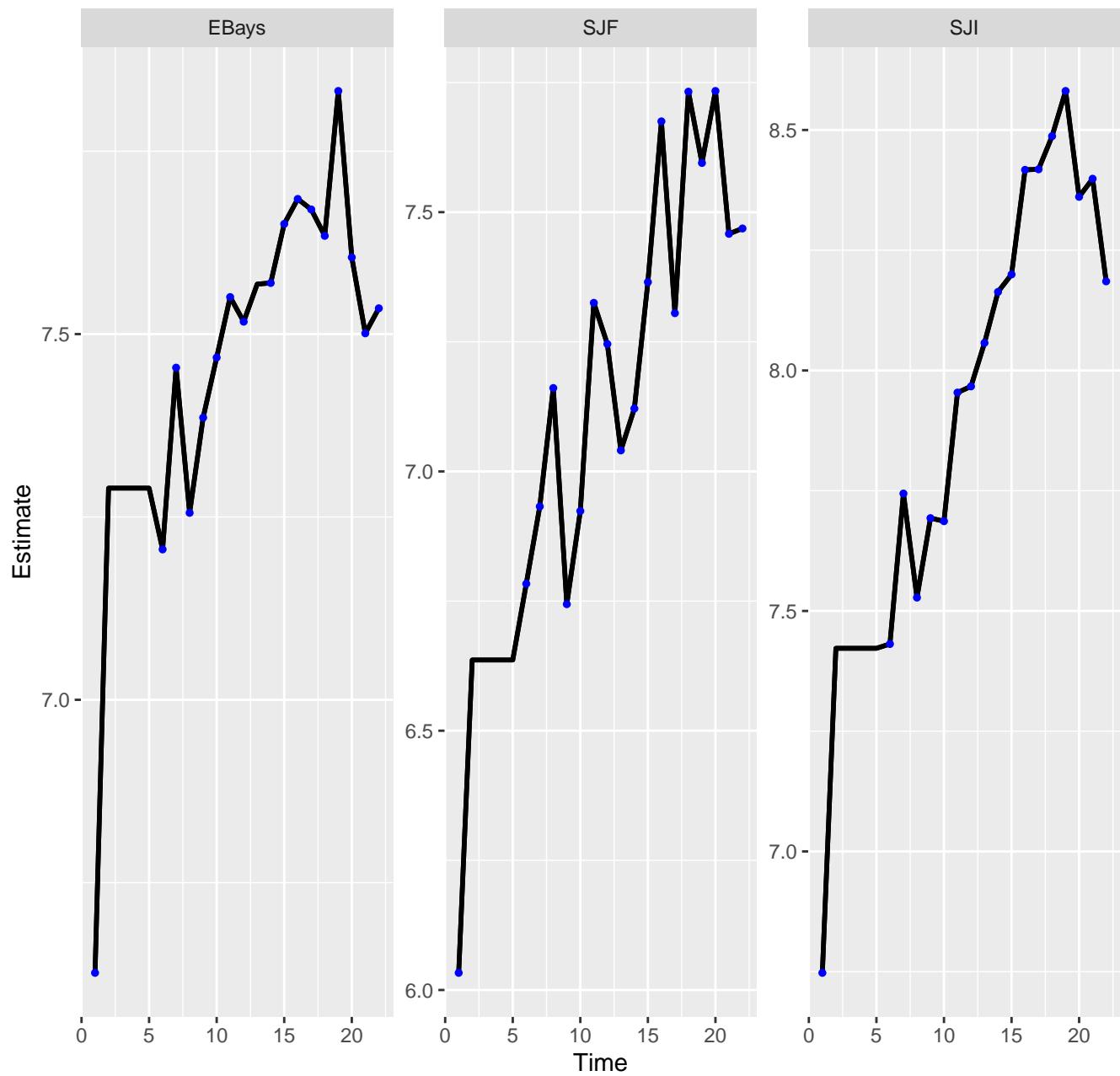


State residuals normality test

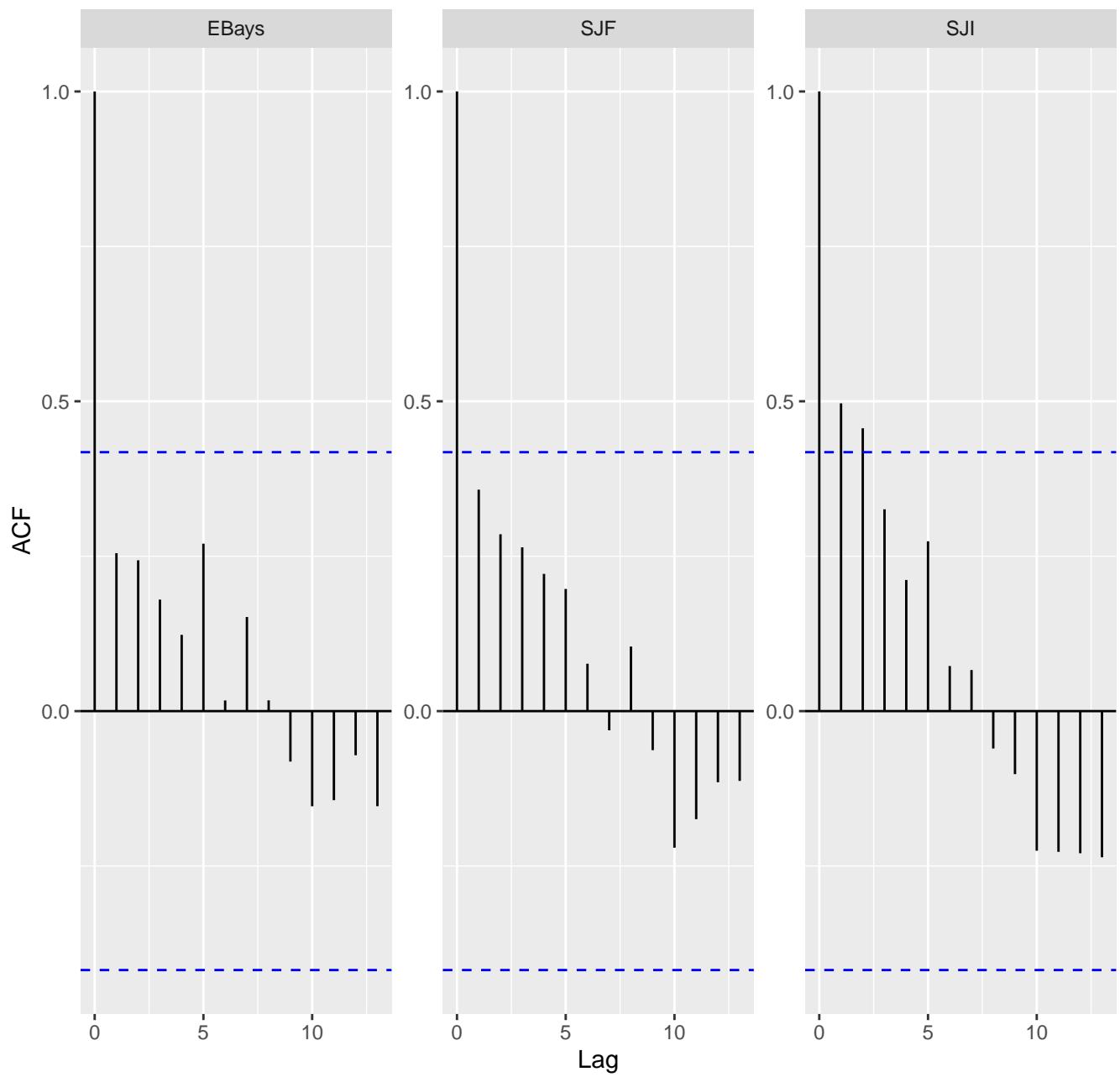
Cholesky standardized state smoothed residuals

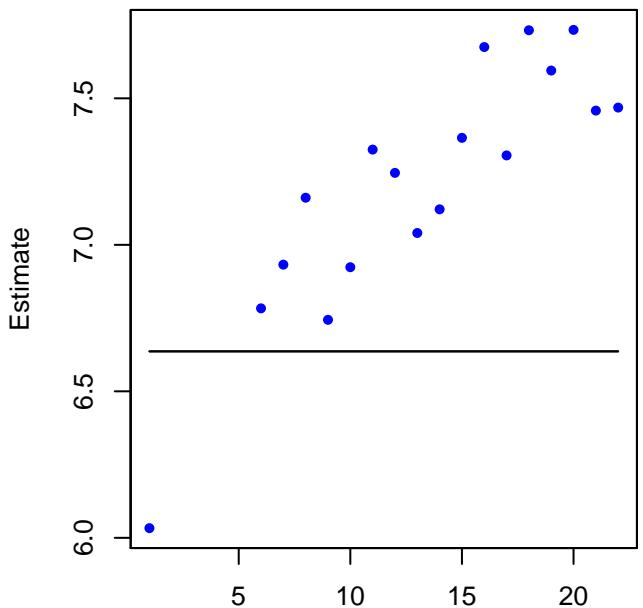
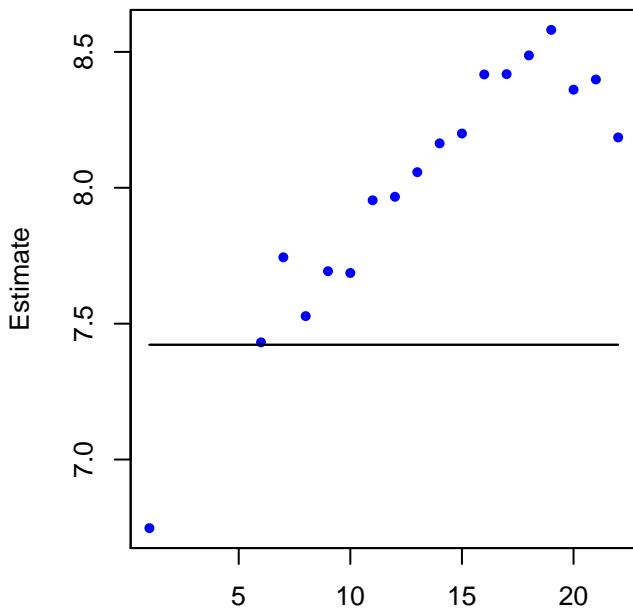
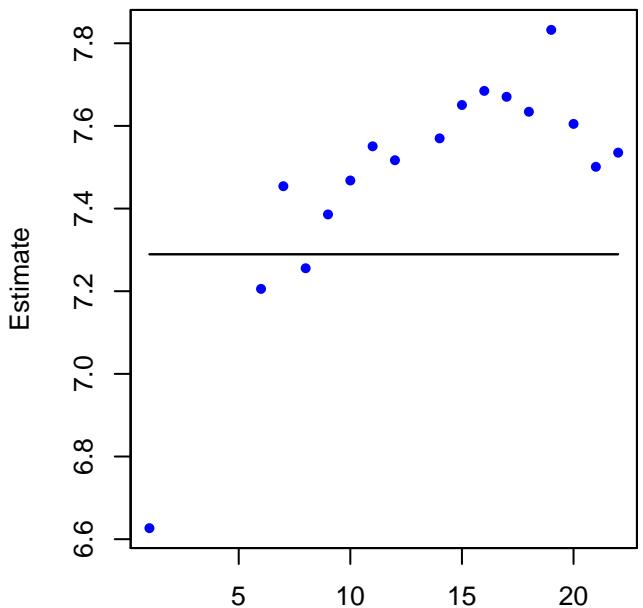


Expected value of Y conditioned on data

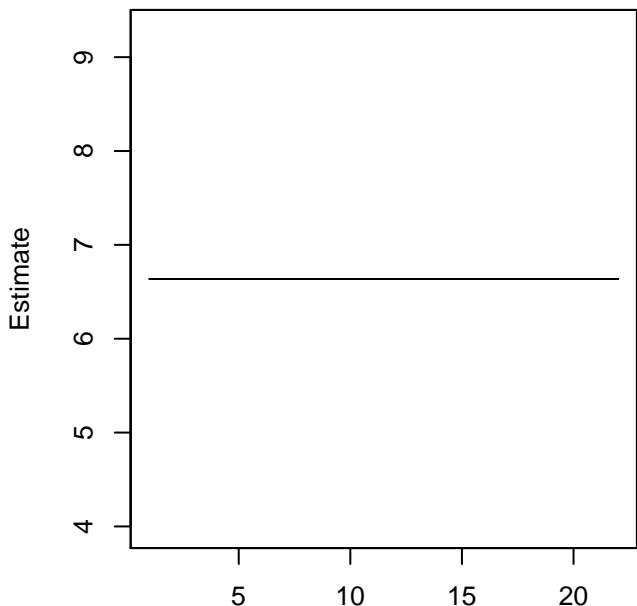


Model innovations residuals ACF

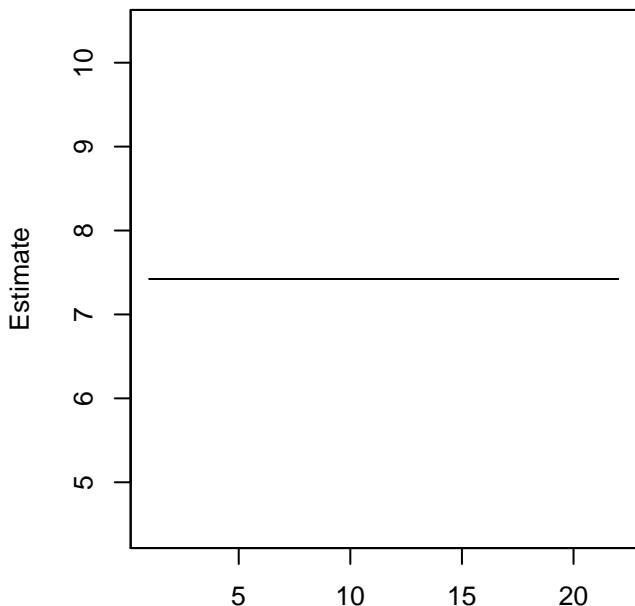


SJF + CI**SJI + CI****EBays + CI**

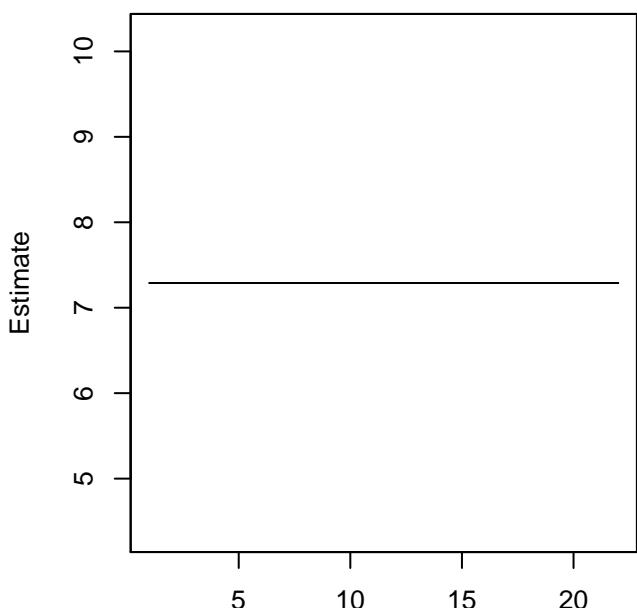
State X.SJF



State X.SJI

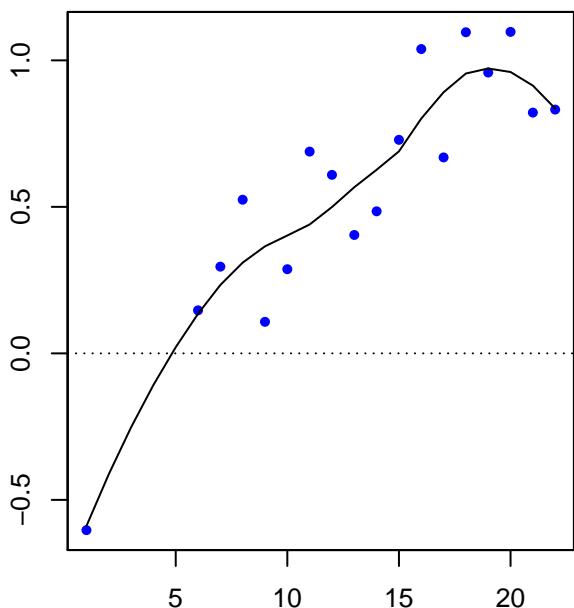


State X.EBays

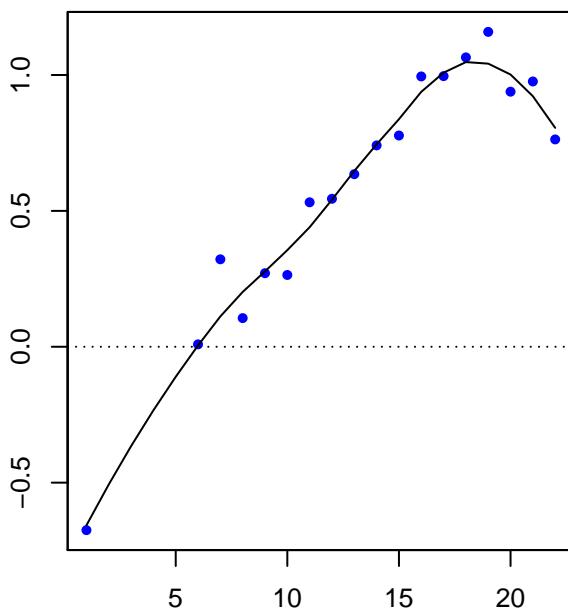


Observation residuals, $y - E[y]$

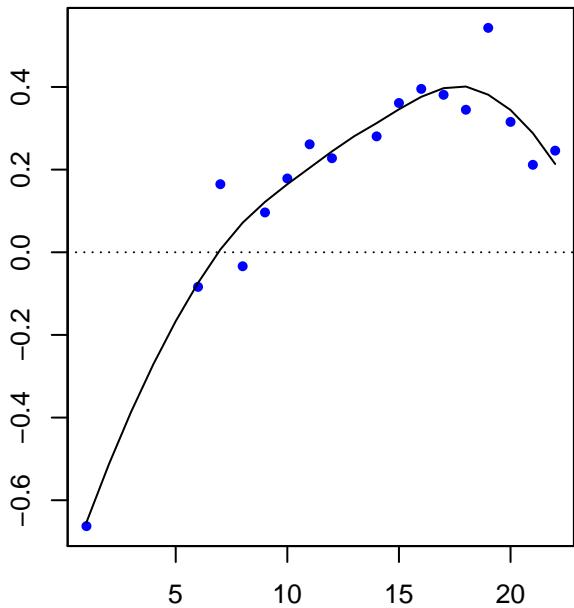
SJF



SJI

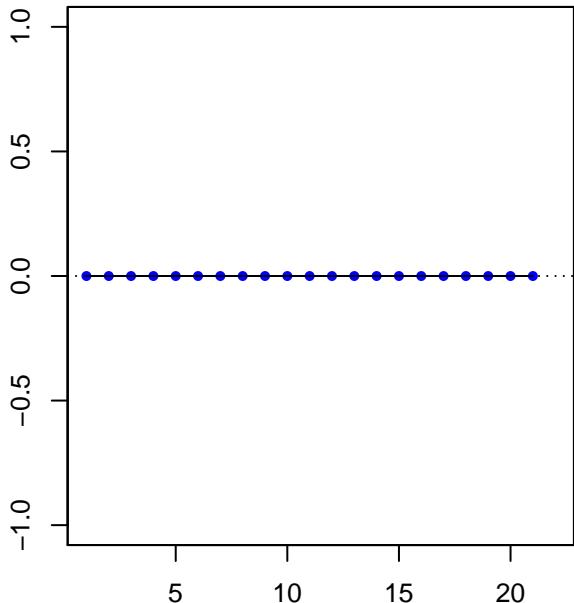


EBays

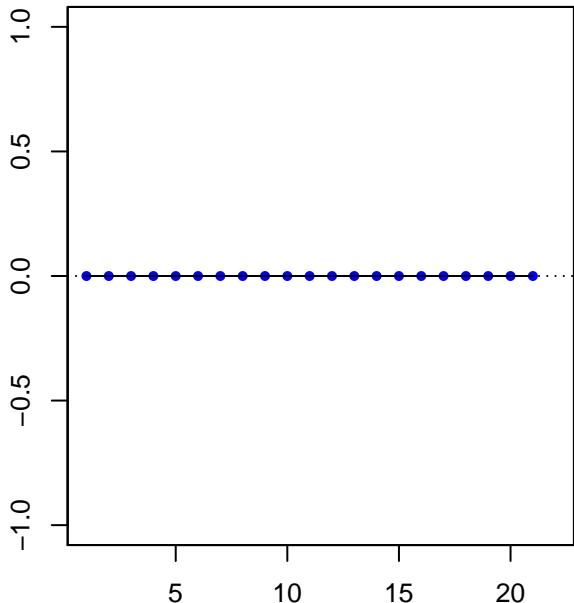


State residuals, $x_{tT} - E[x]$

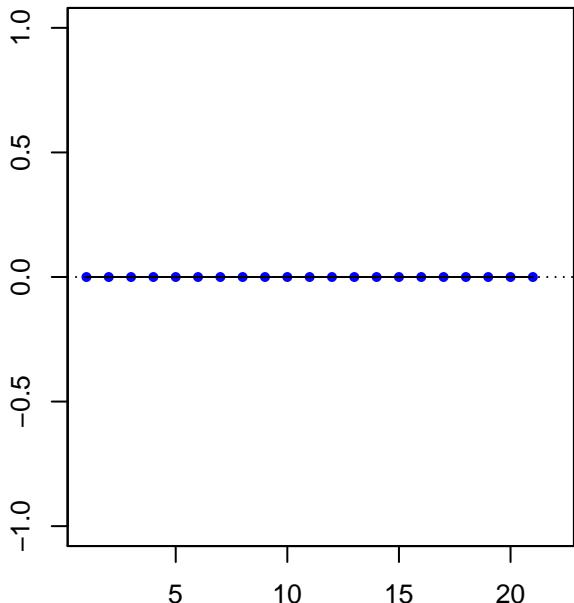
State X.SJF

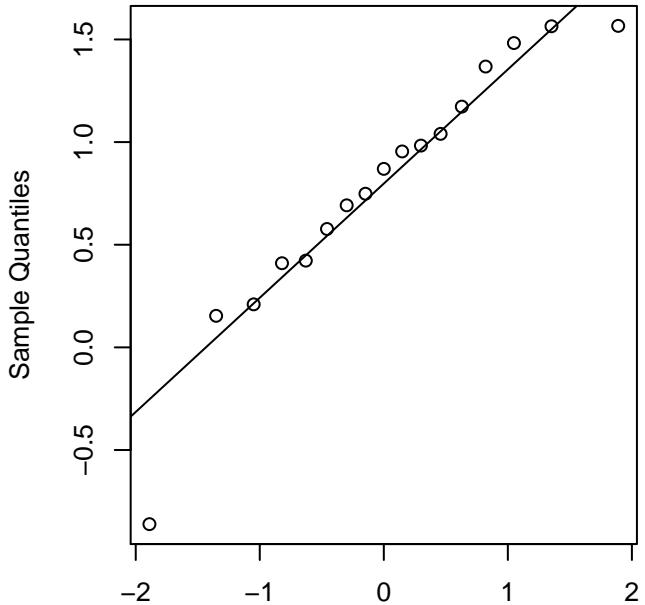
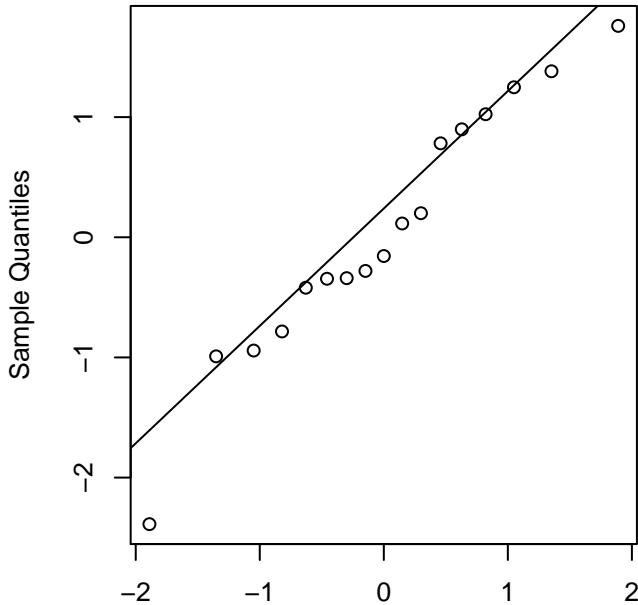
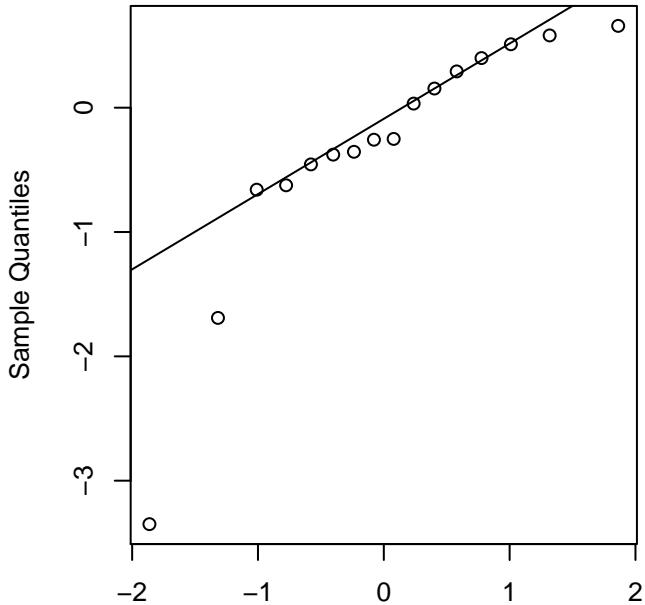


State X.SJI

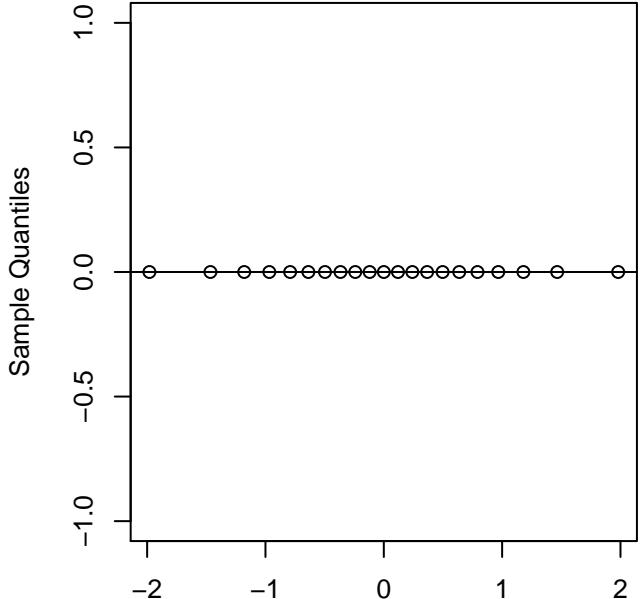


State X.EBays

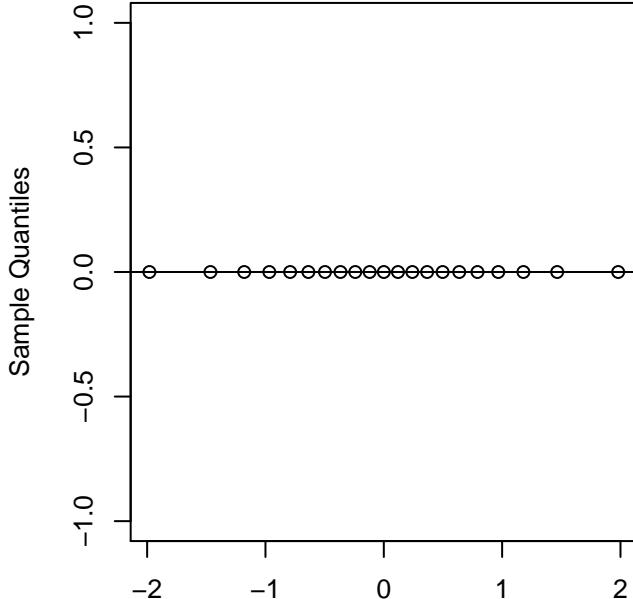


SJF**SJI****EBays**

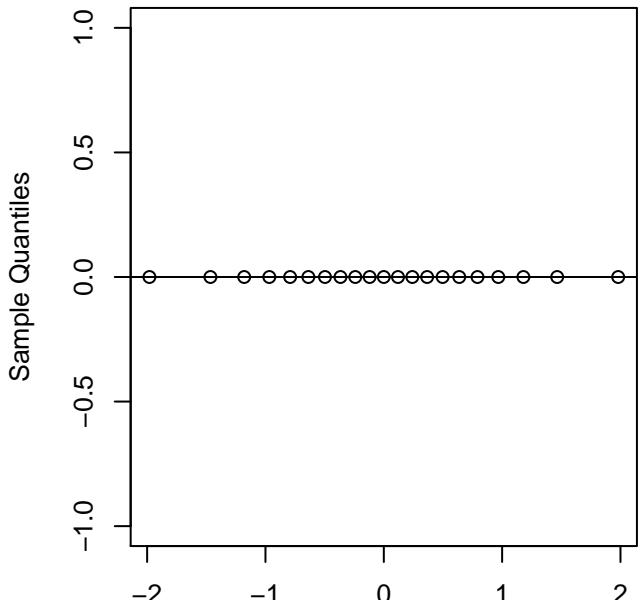
State X.SJF

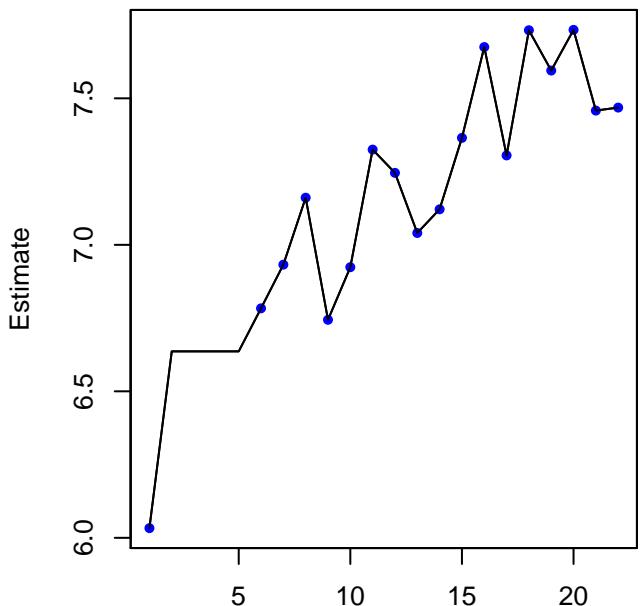
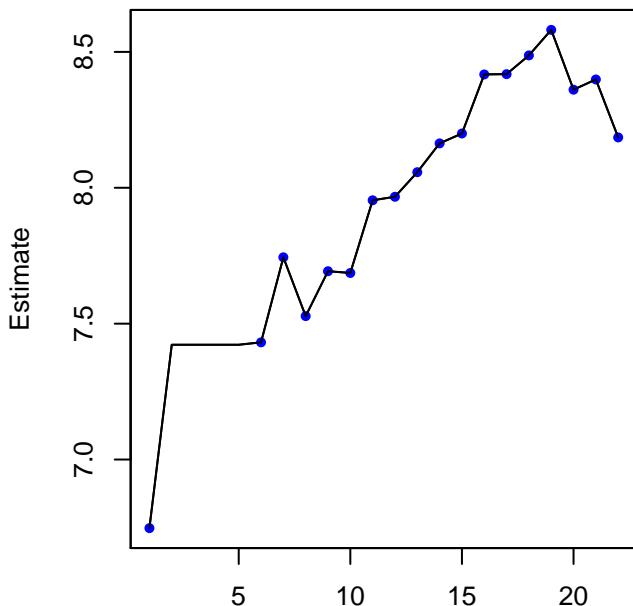
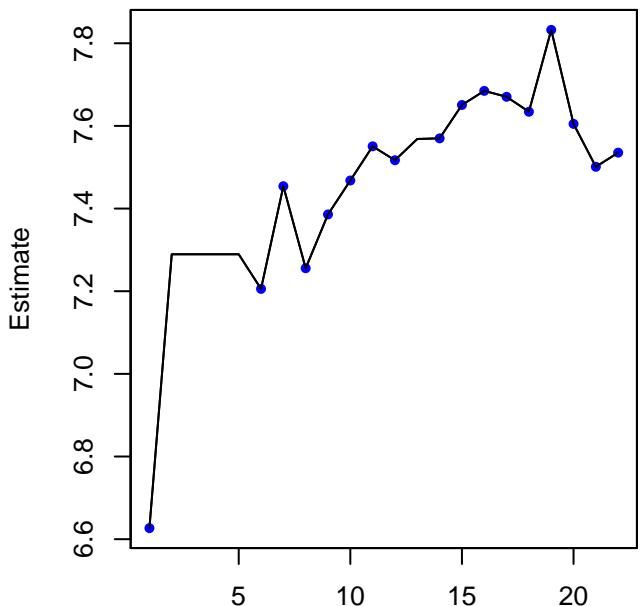


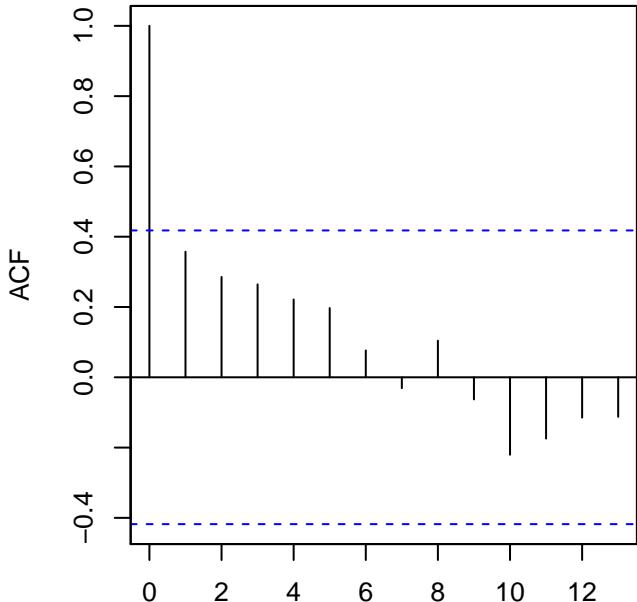
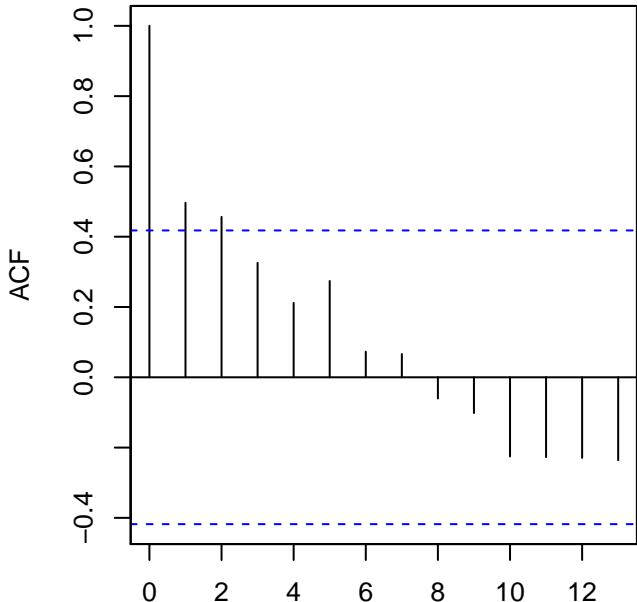
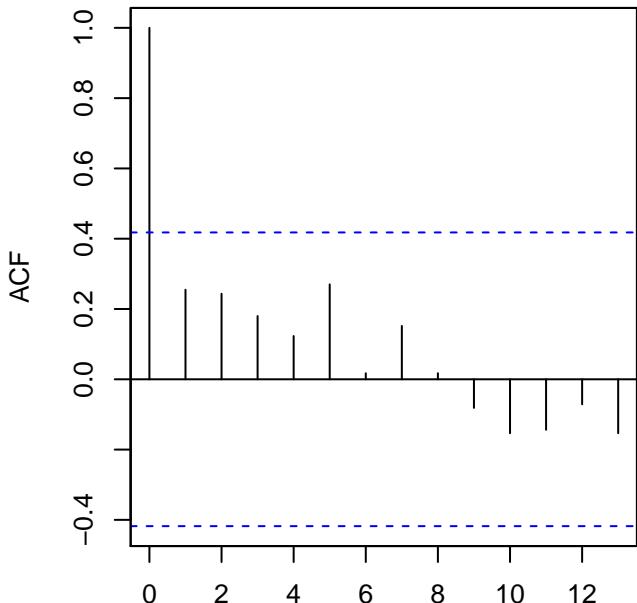
State X.SJI



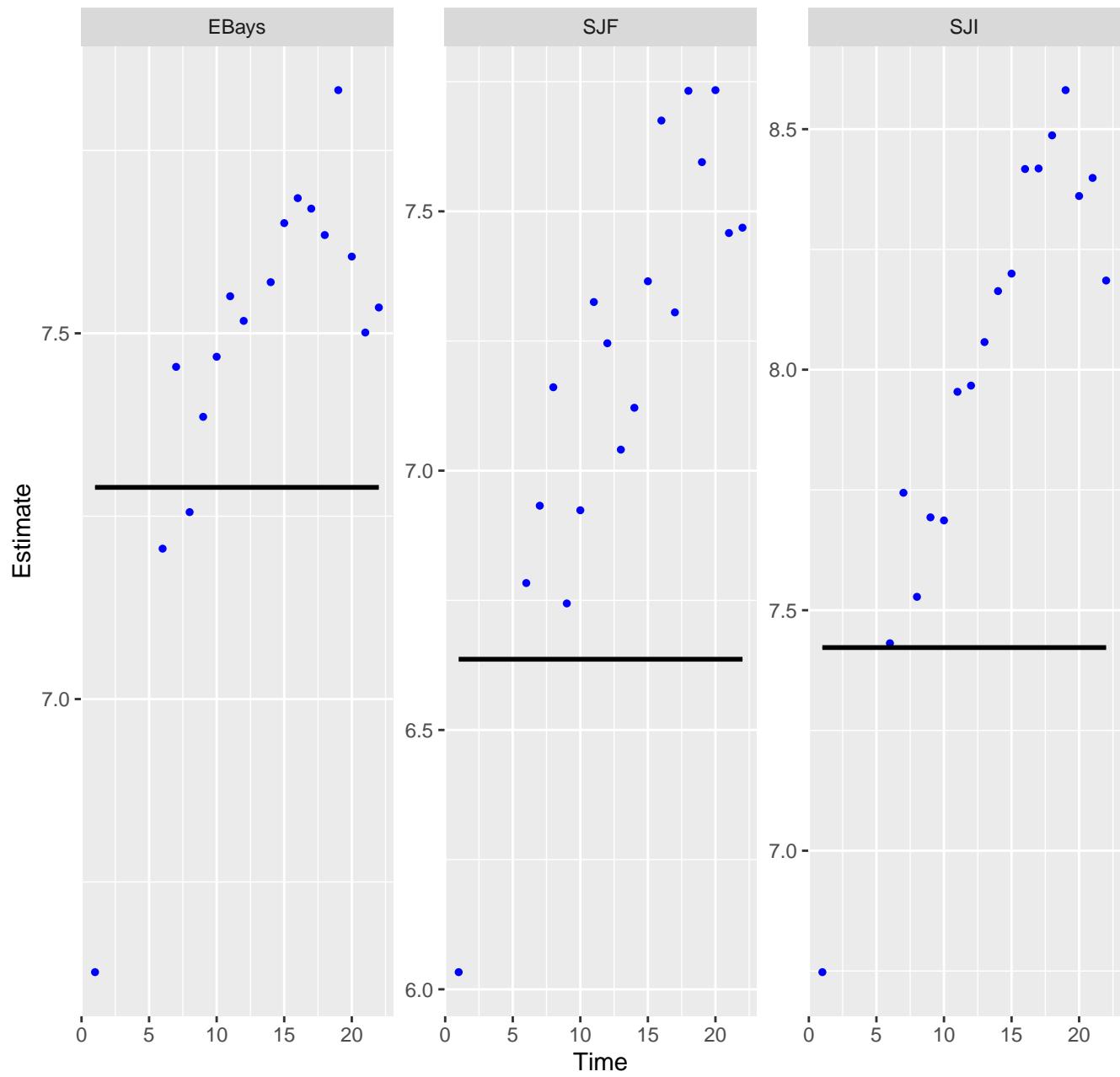
State X.EBays



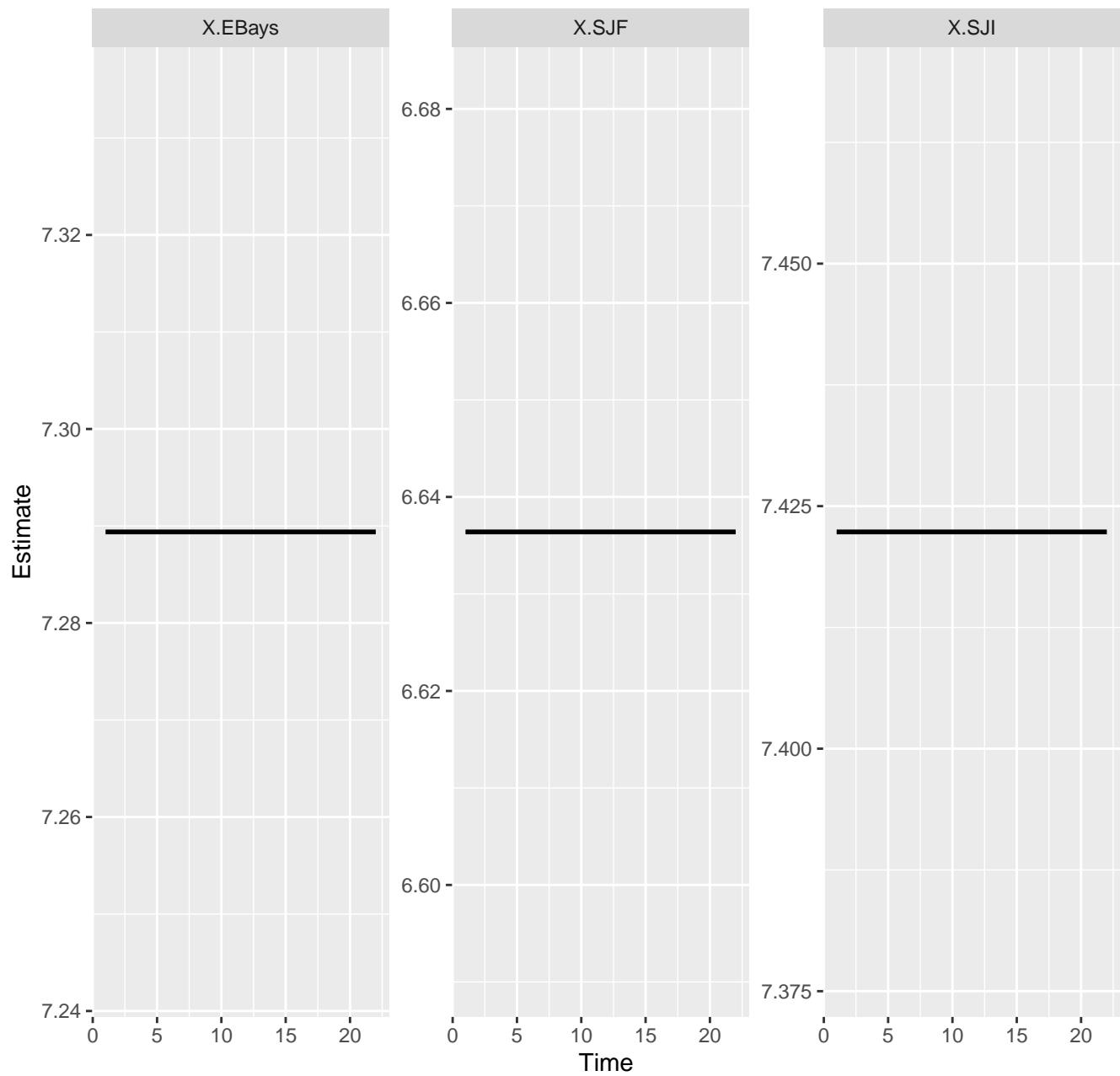
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

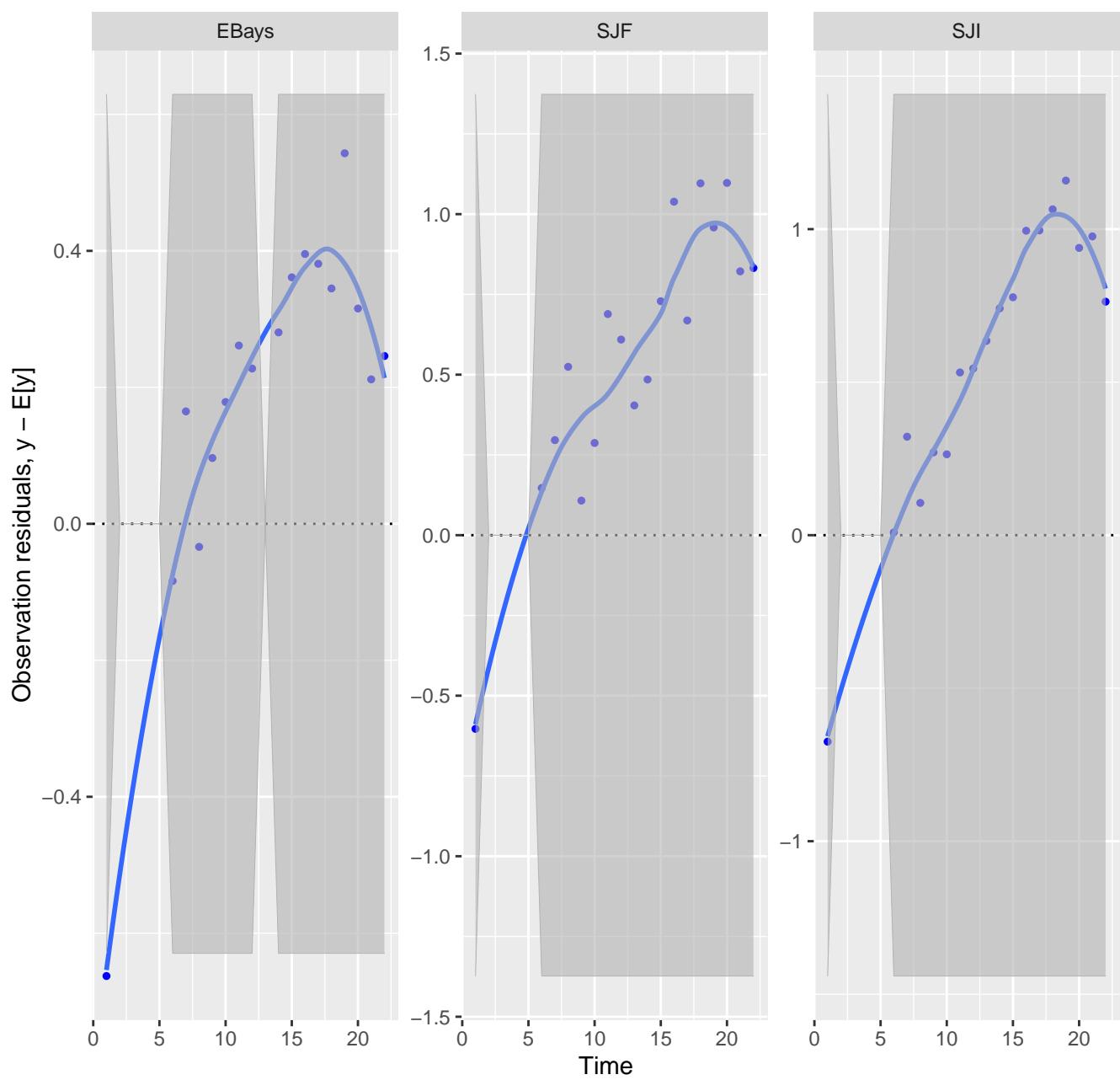
Model fitted Y + CI



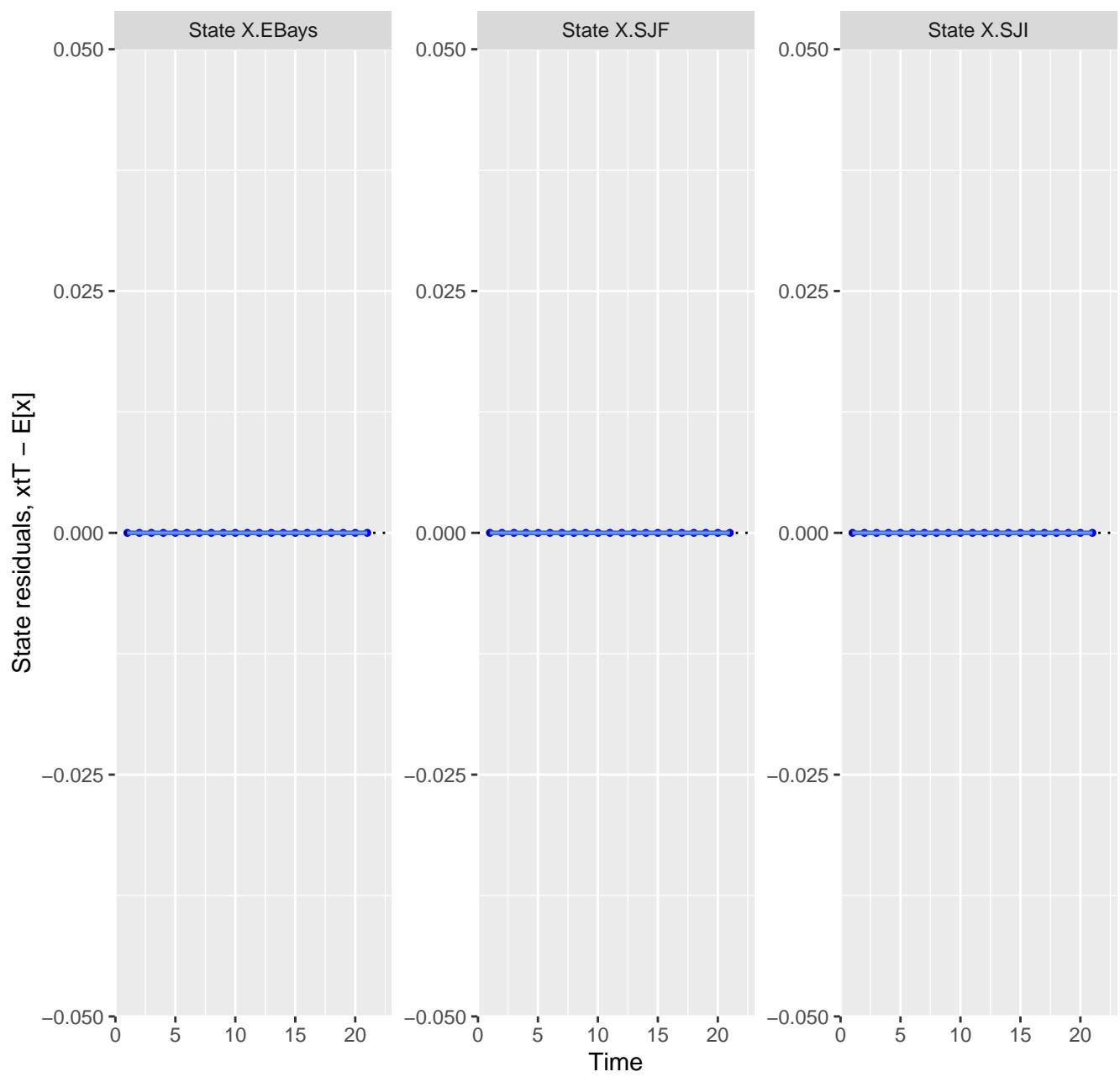
States



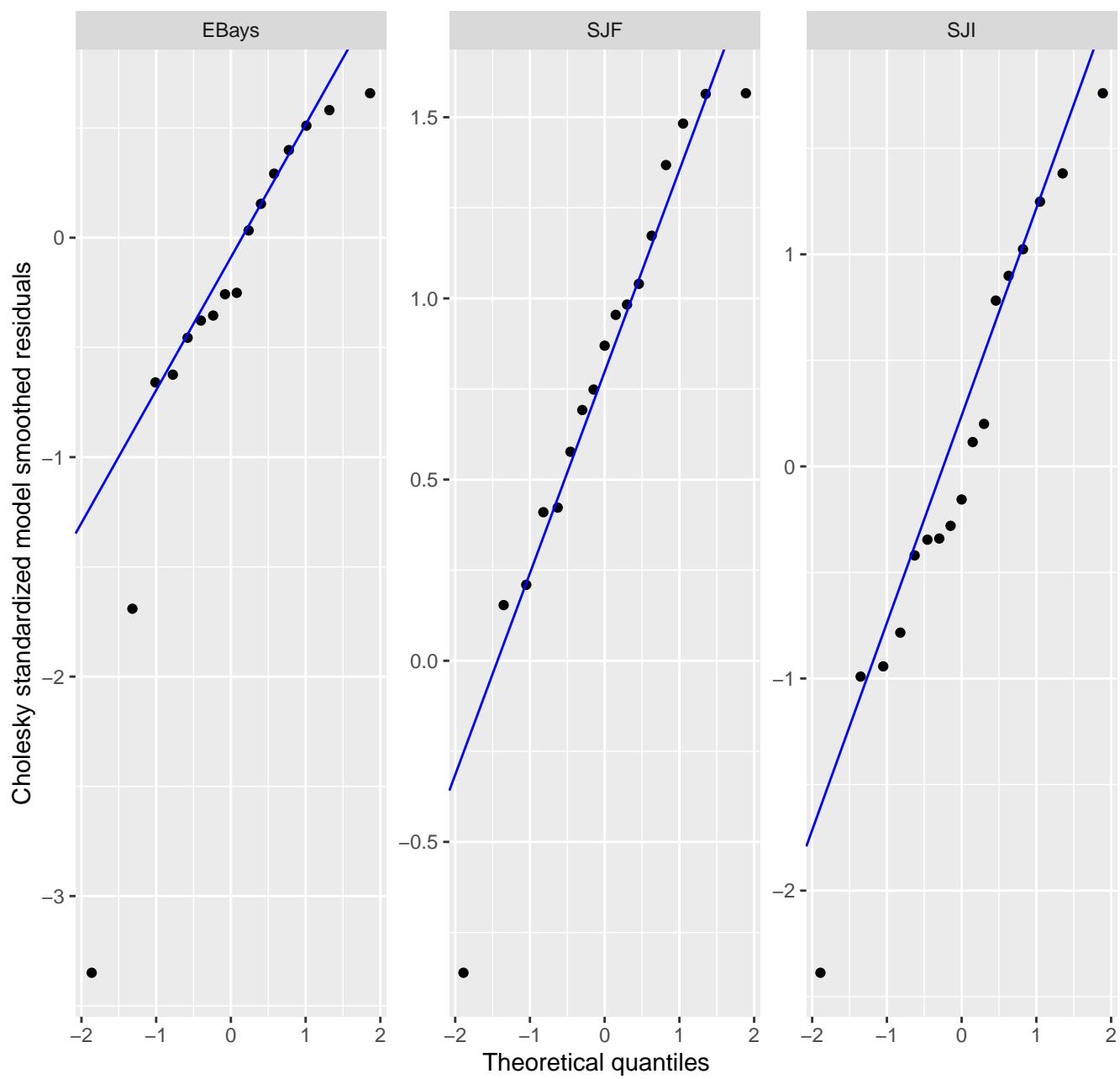
Model residuals



State residuals

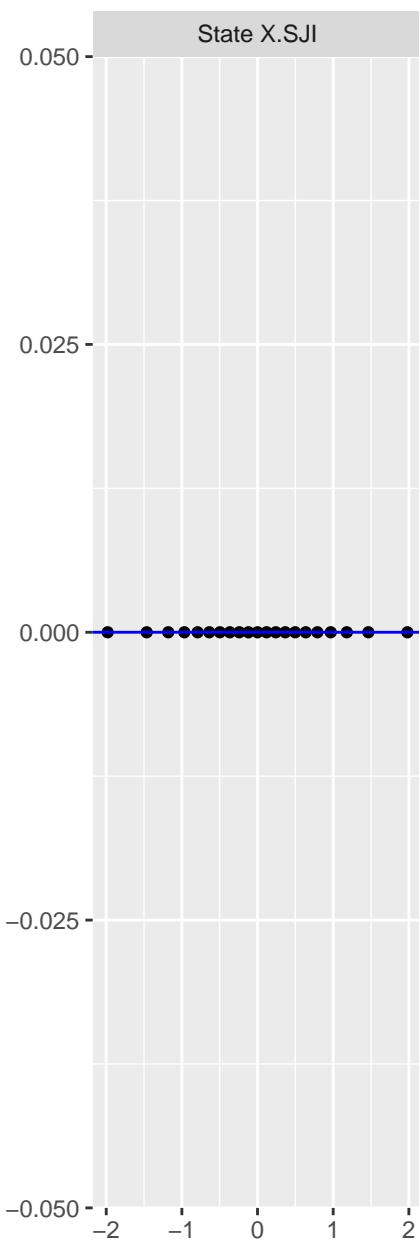
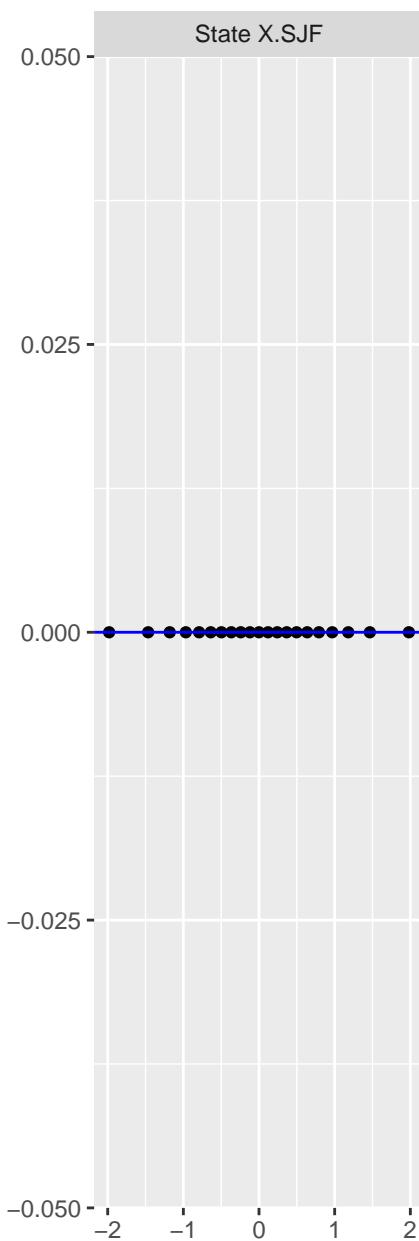
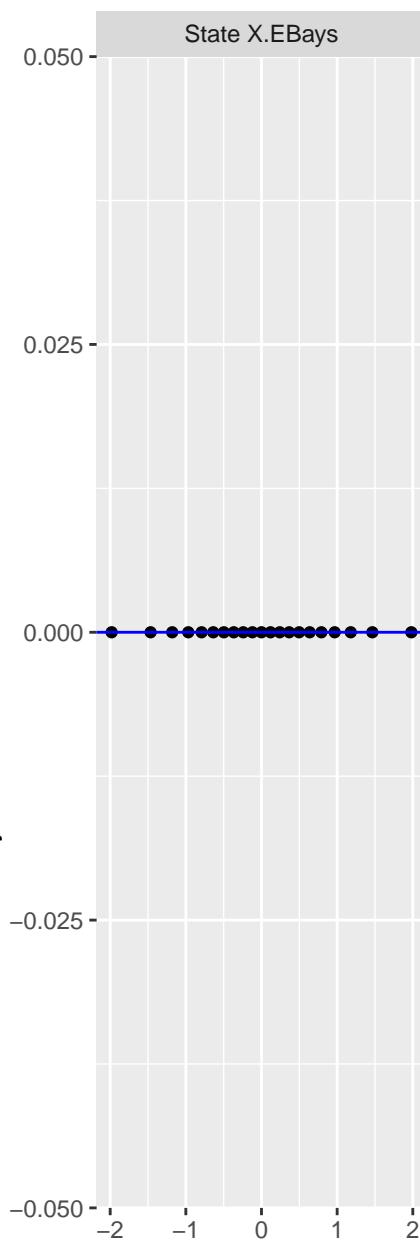


Model residuals normality test

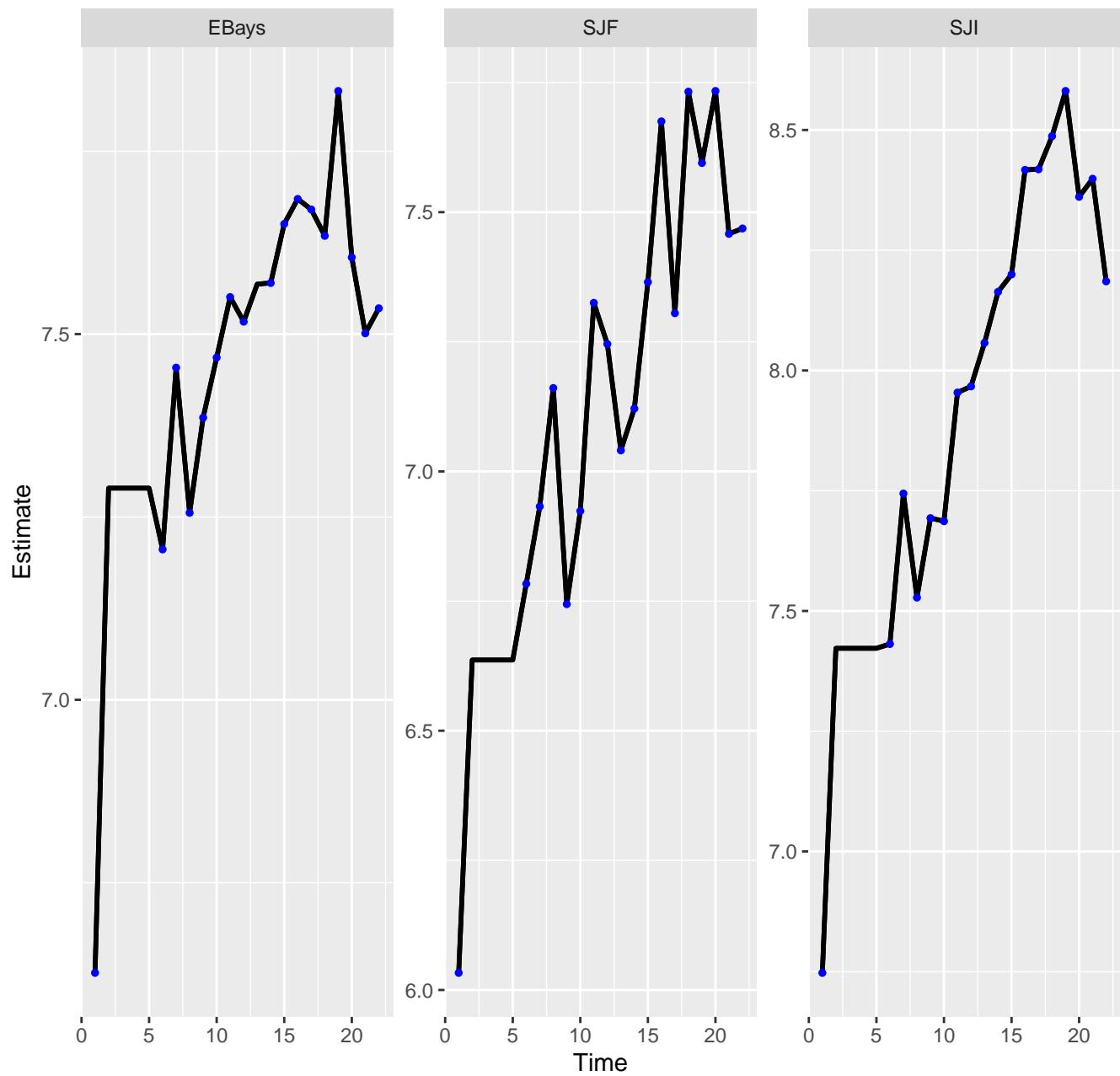


State residuals normality test

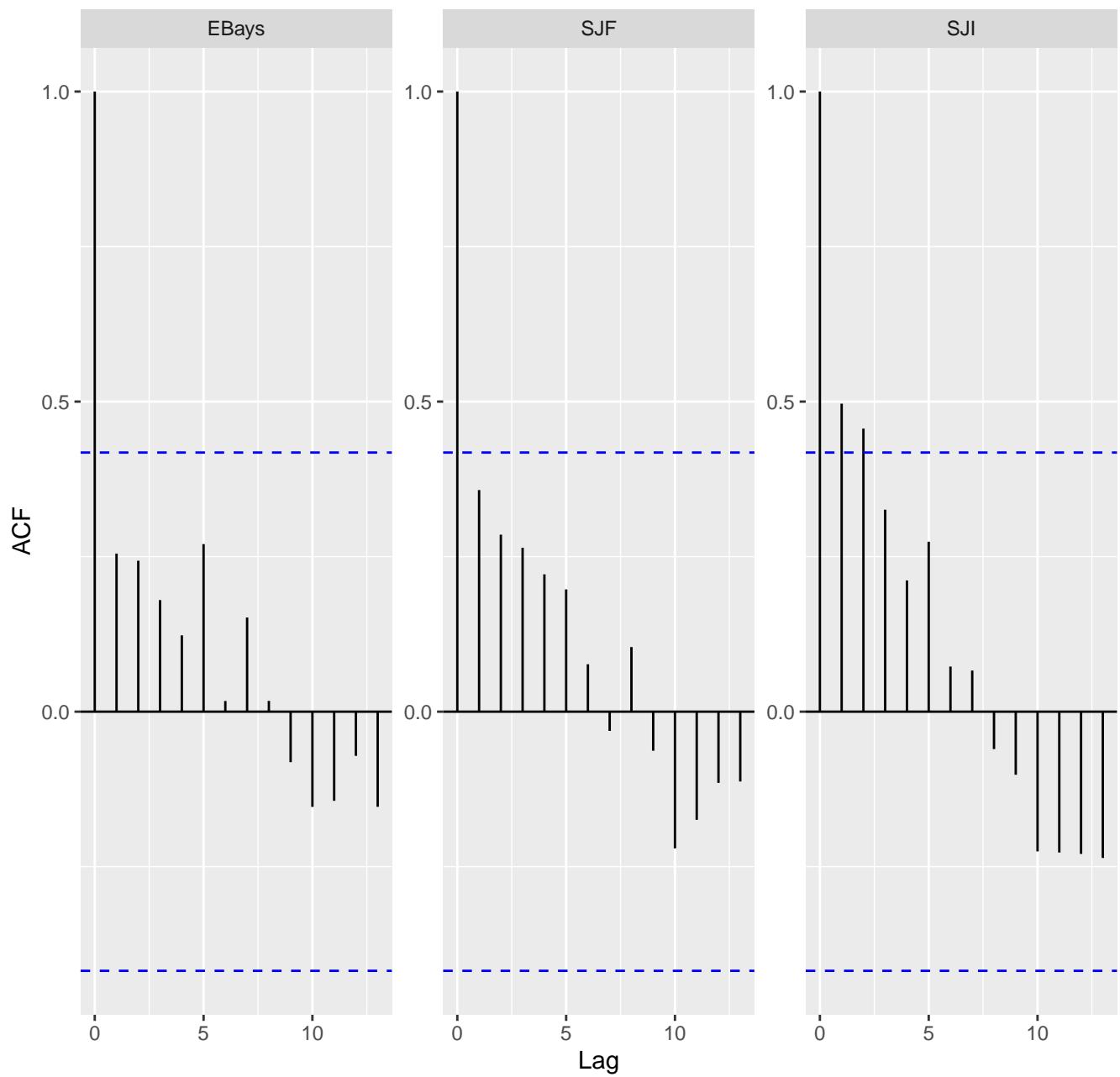
Cholesky standardized state smoothed residuals

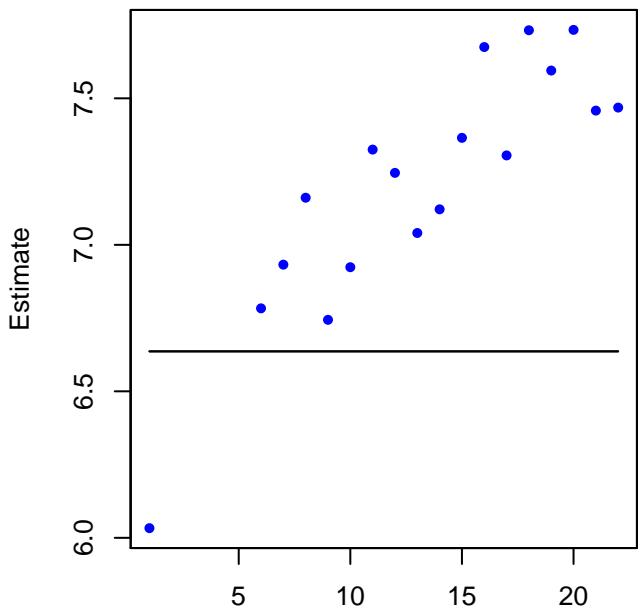
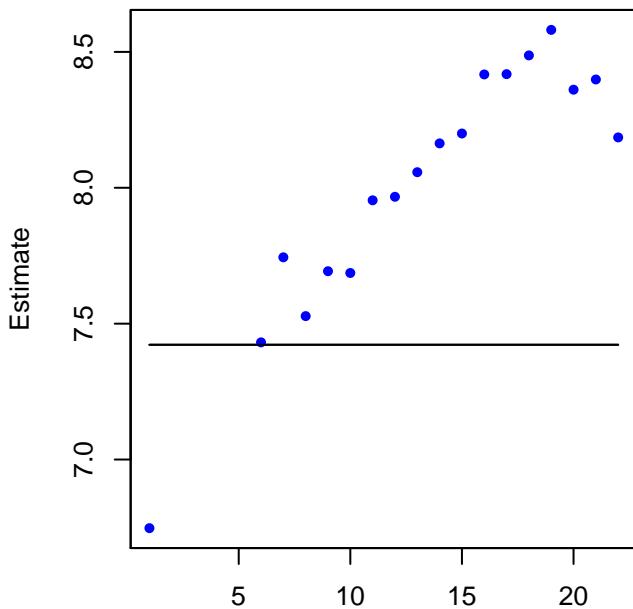
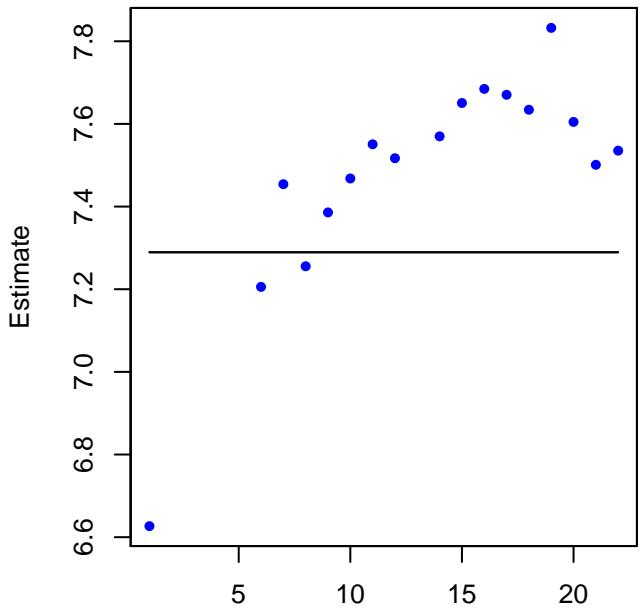


Expected value of Y conditioned on data

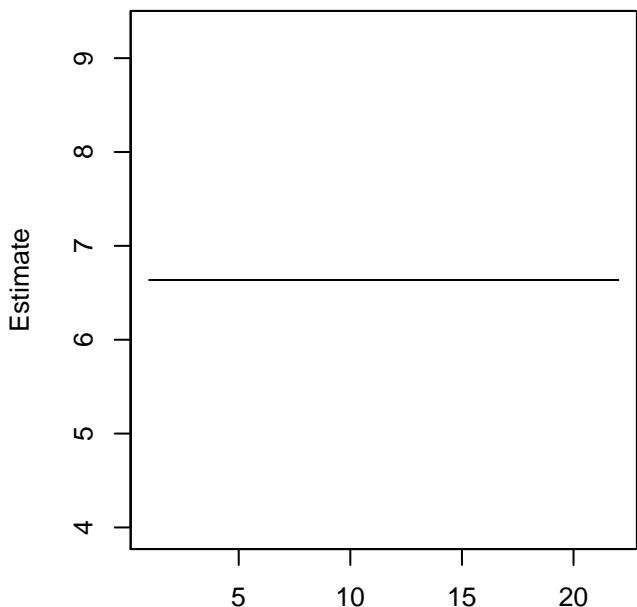


Model innovations residuals ACF

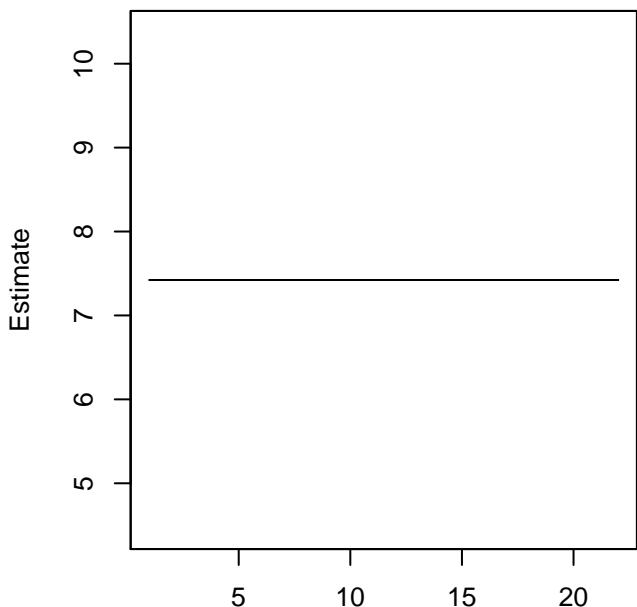


SJF + CI**SJI + CI****EBays + CI**

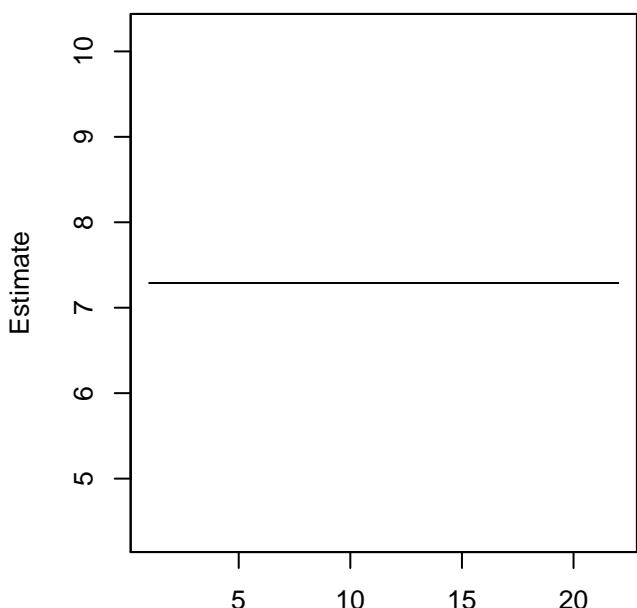
State X.SJF



State X.SJI

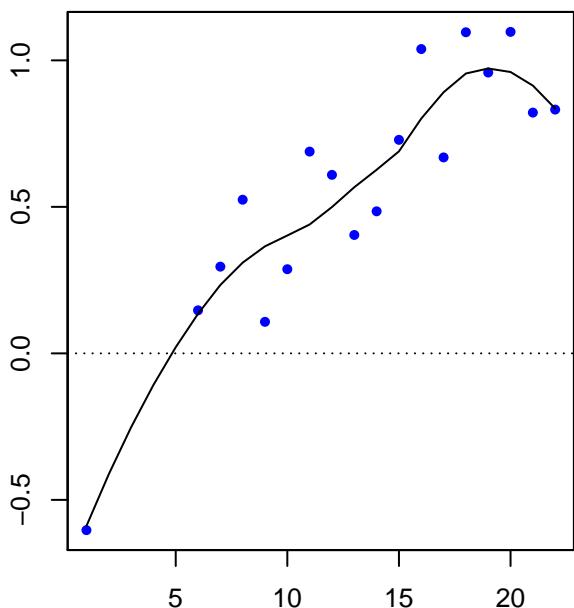


State X.EBays

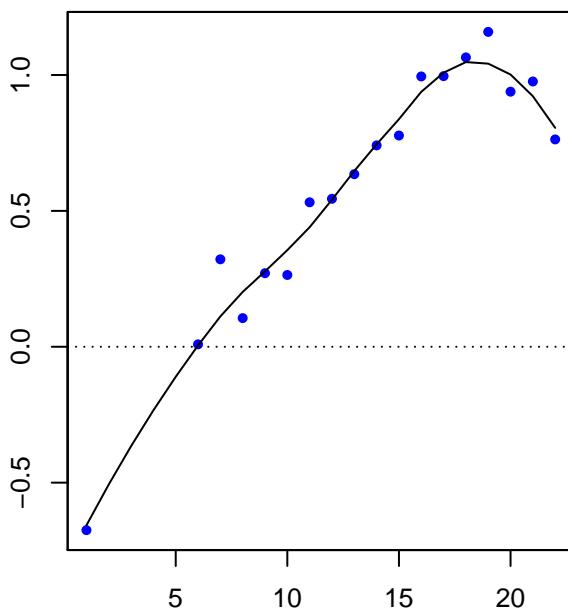


Observation residuals, $y - E[y]$

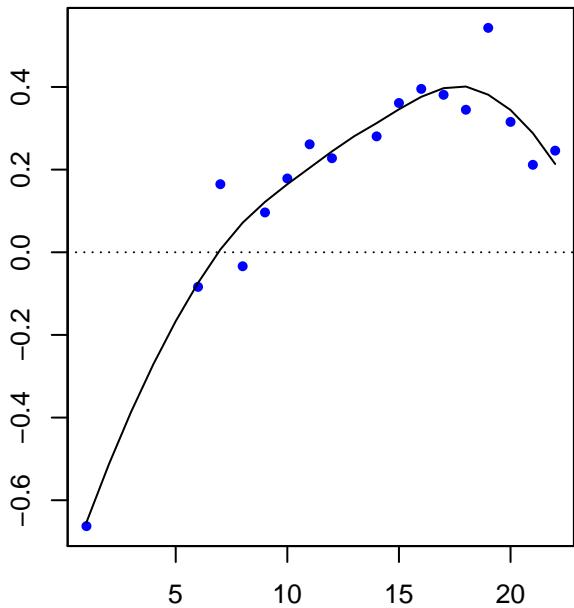
SJF



SJI

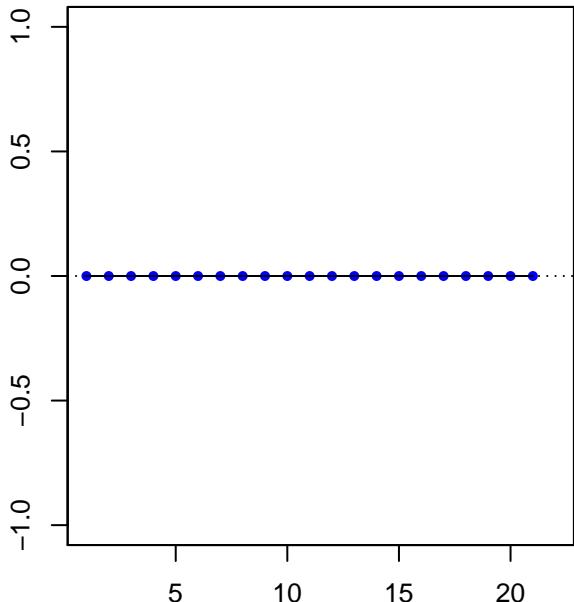


EBays

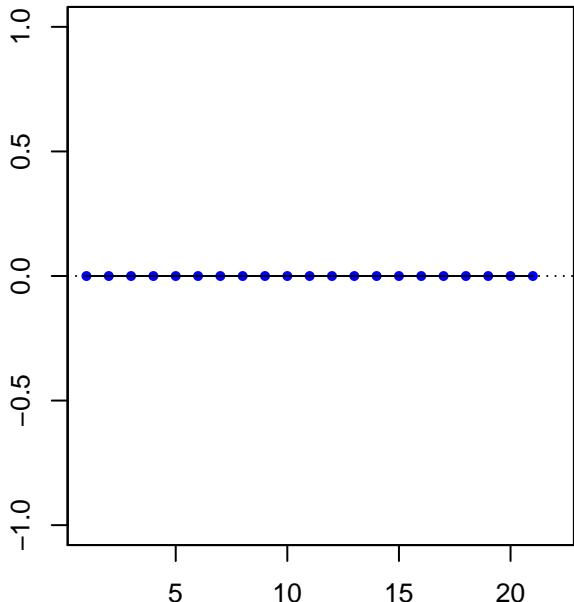


State residuals, $x_{tT} - E[x]$

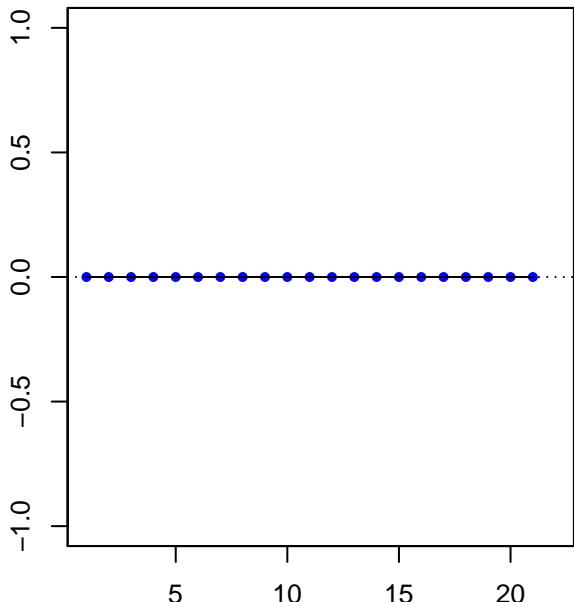
State X.SJF

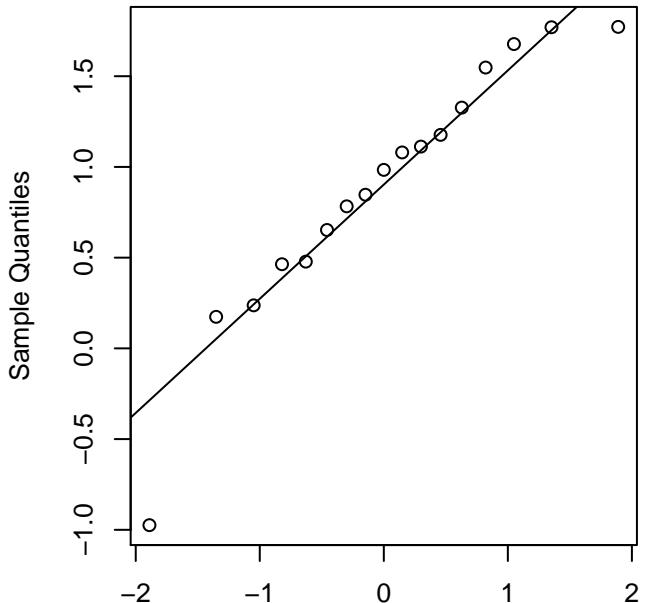
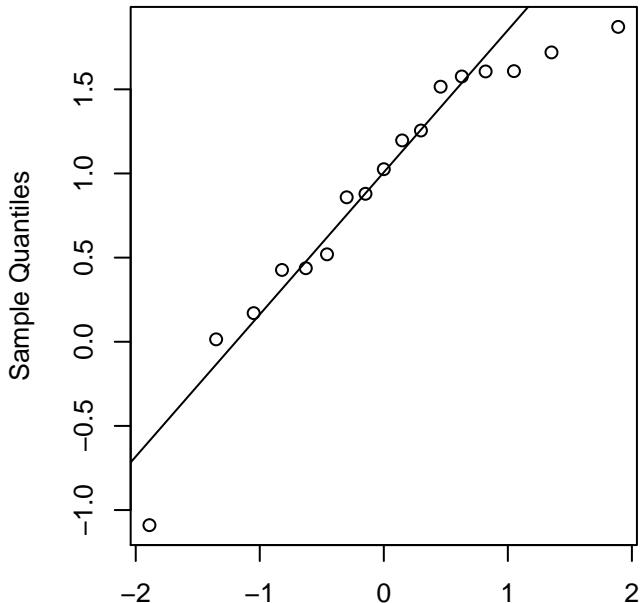
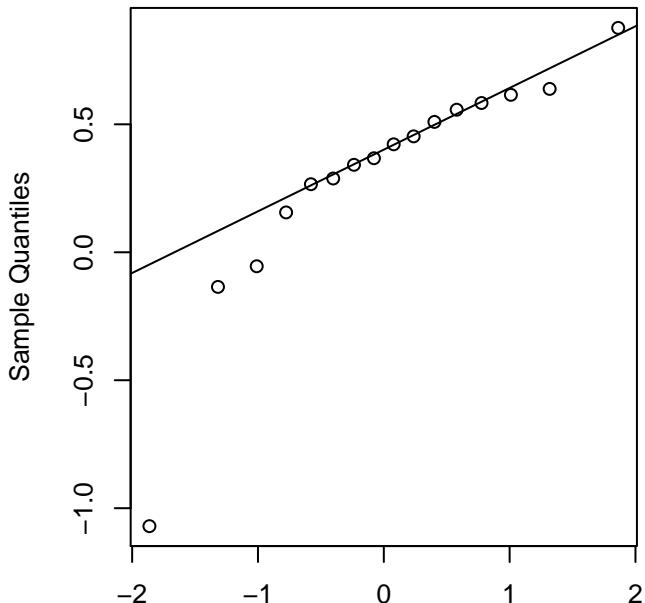


State X.SJI

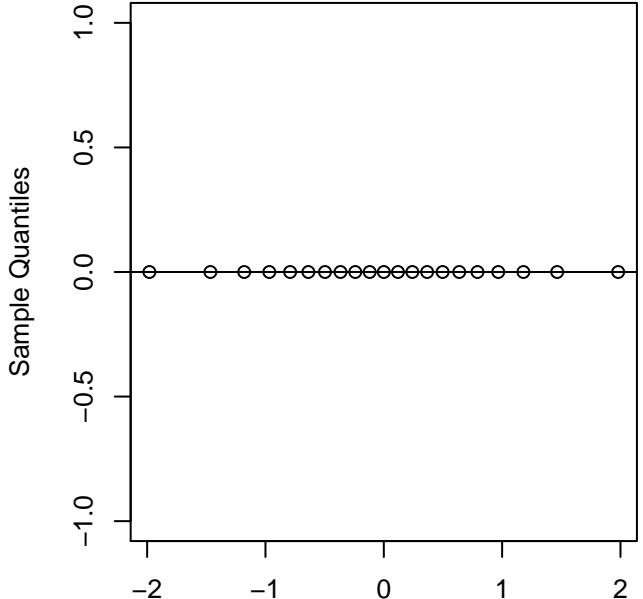


State X.EBays

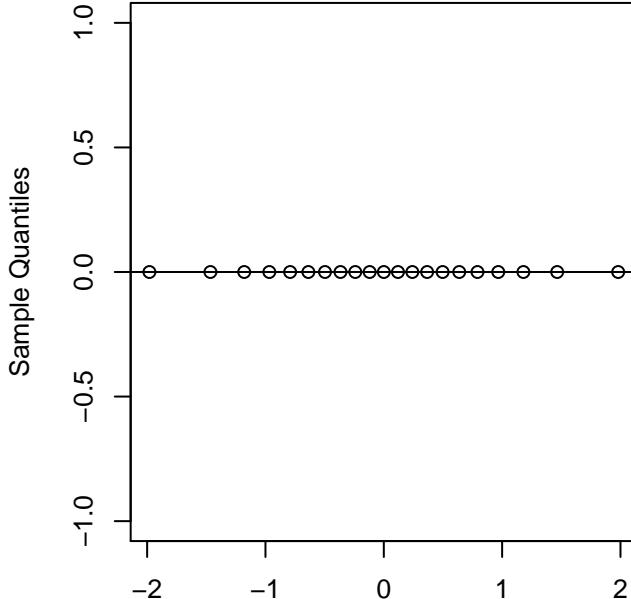


SJF**SJI****EBays**

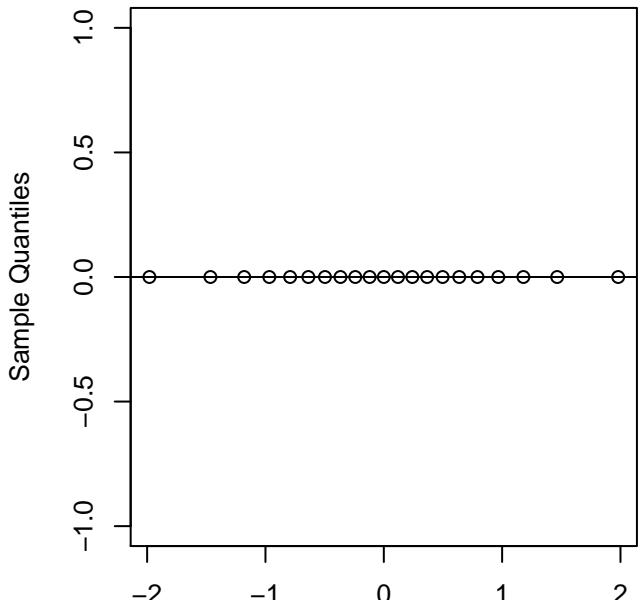
State X.SJF

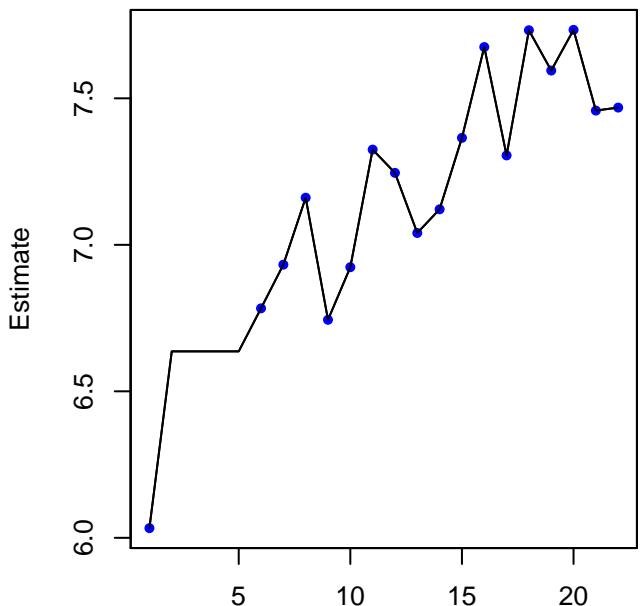
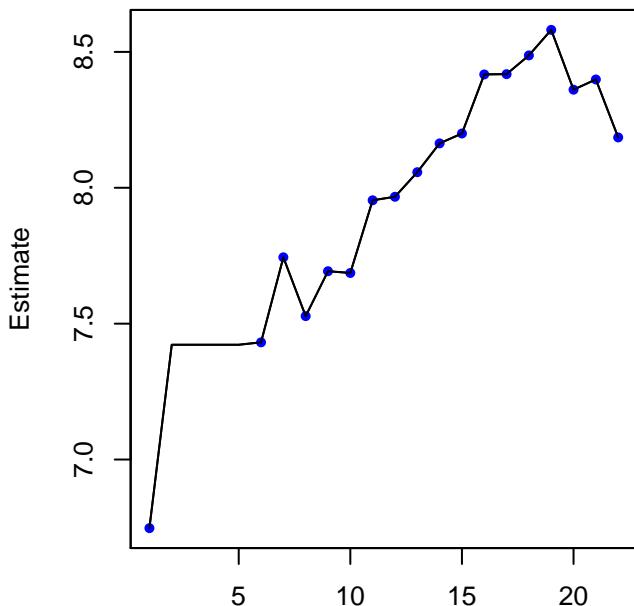
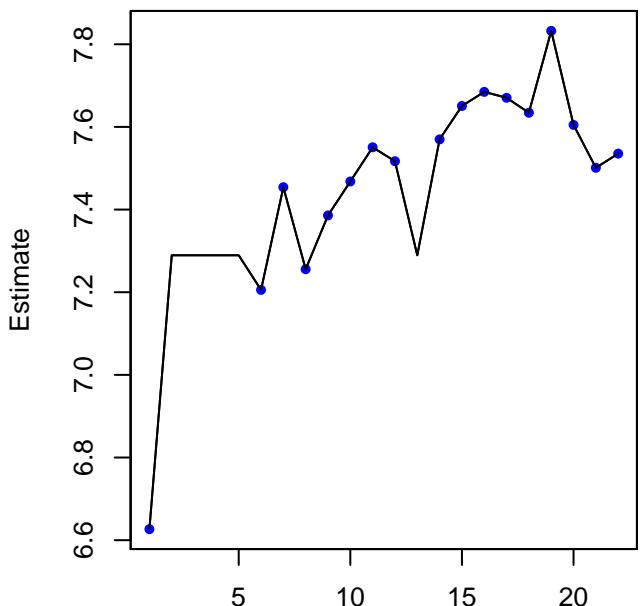


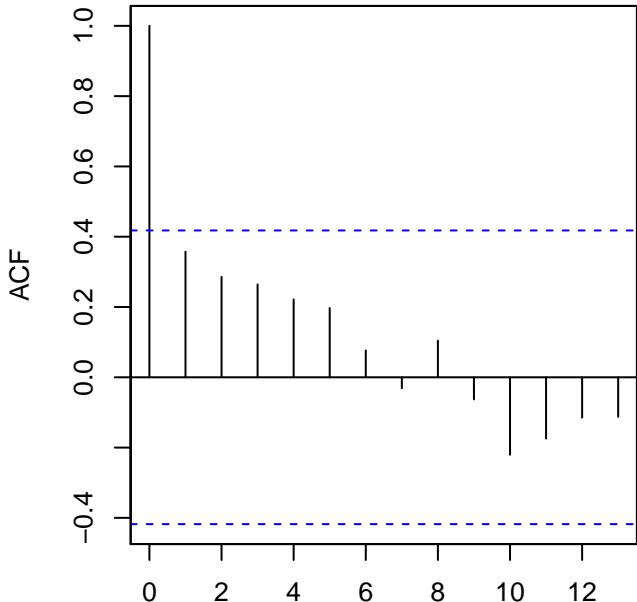
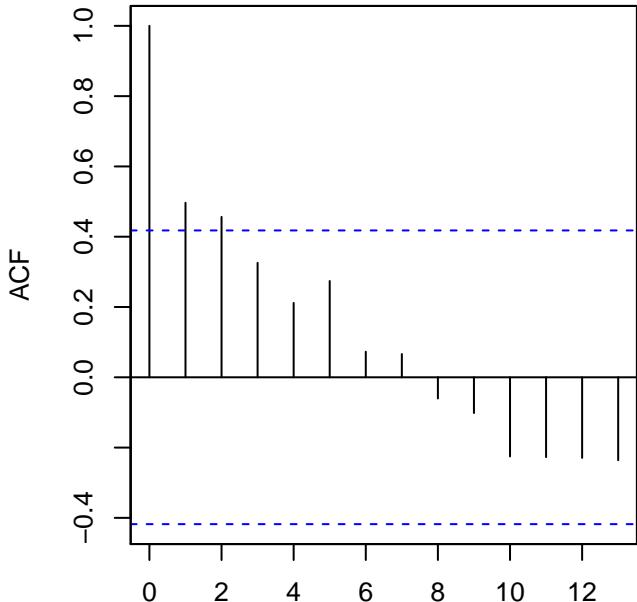
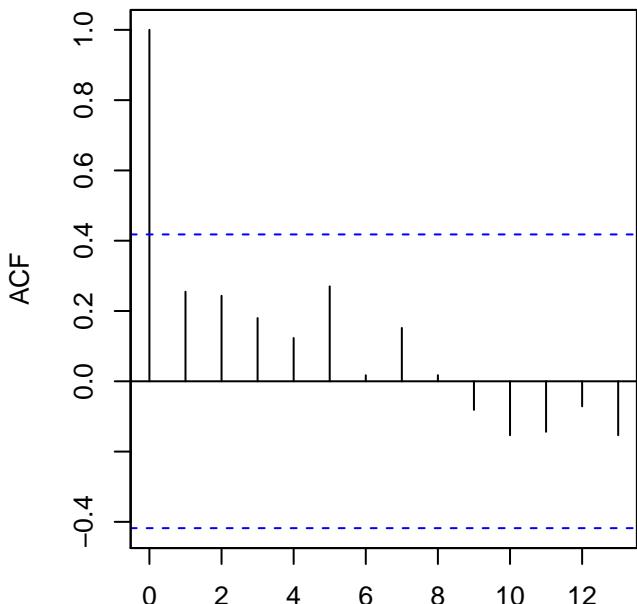
State X.SJI



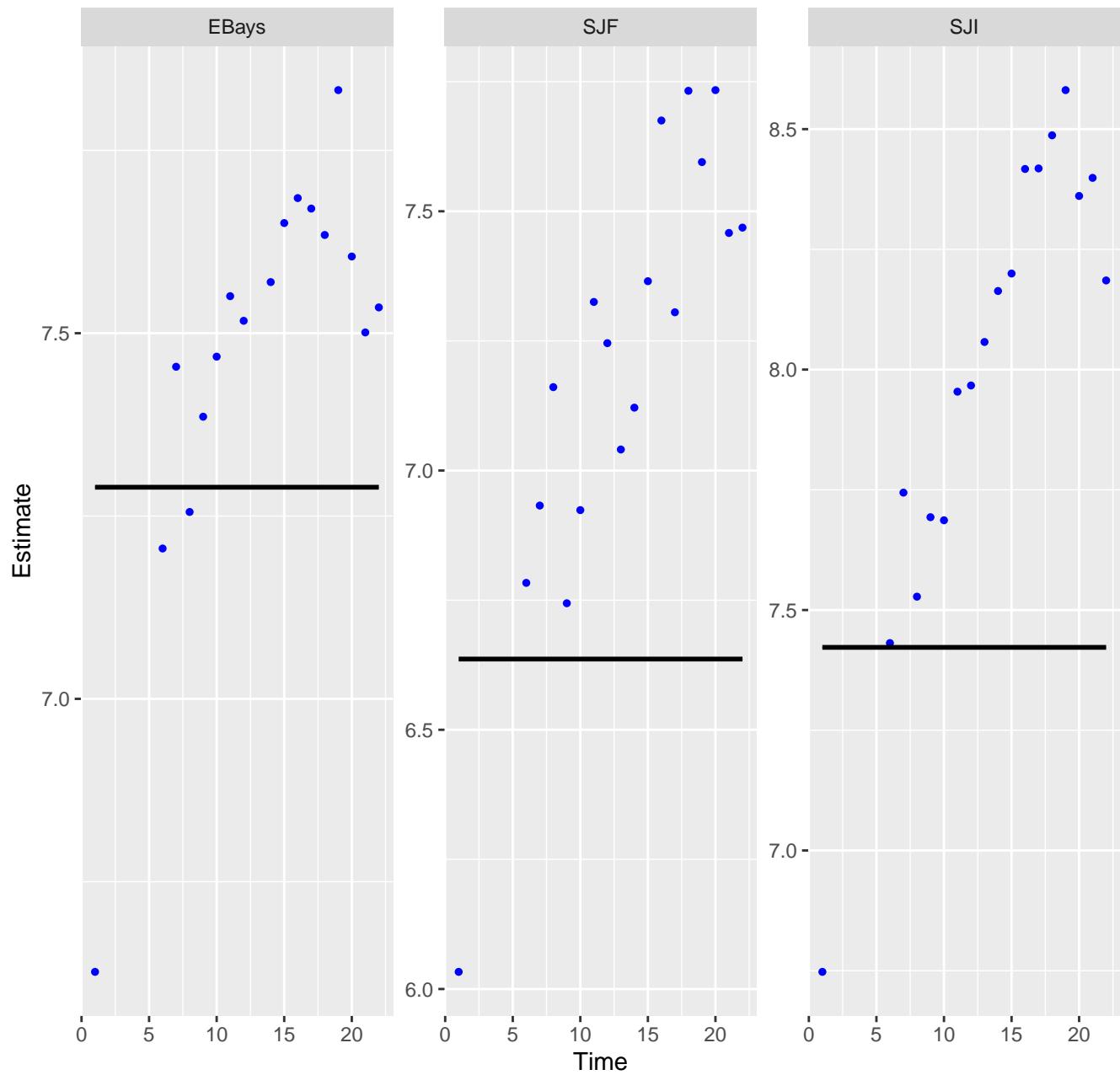
State X.EBays



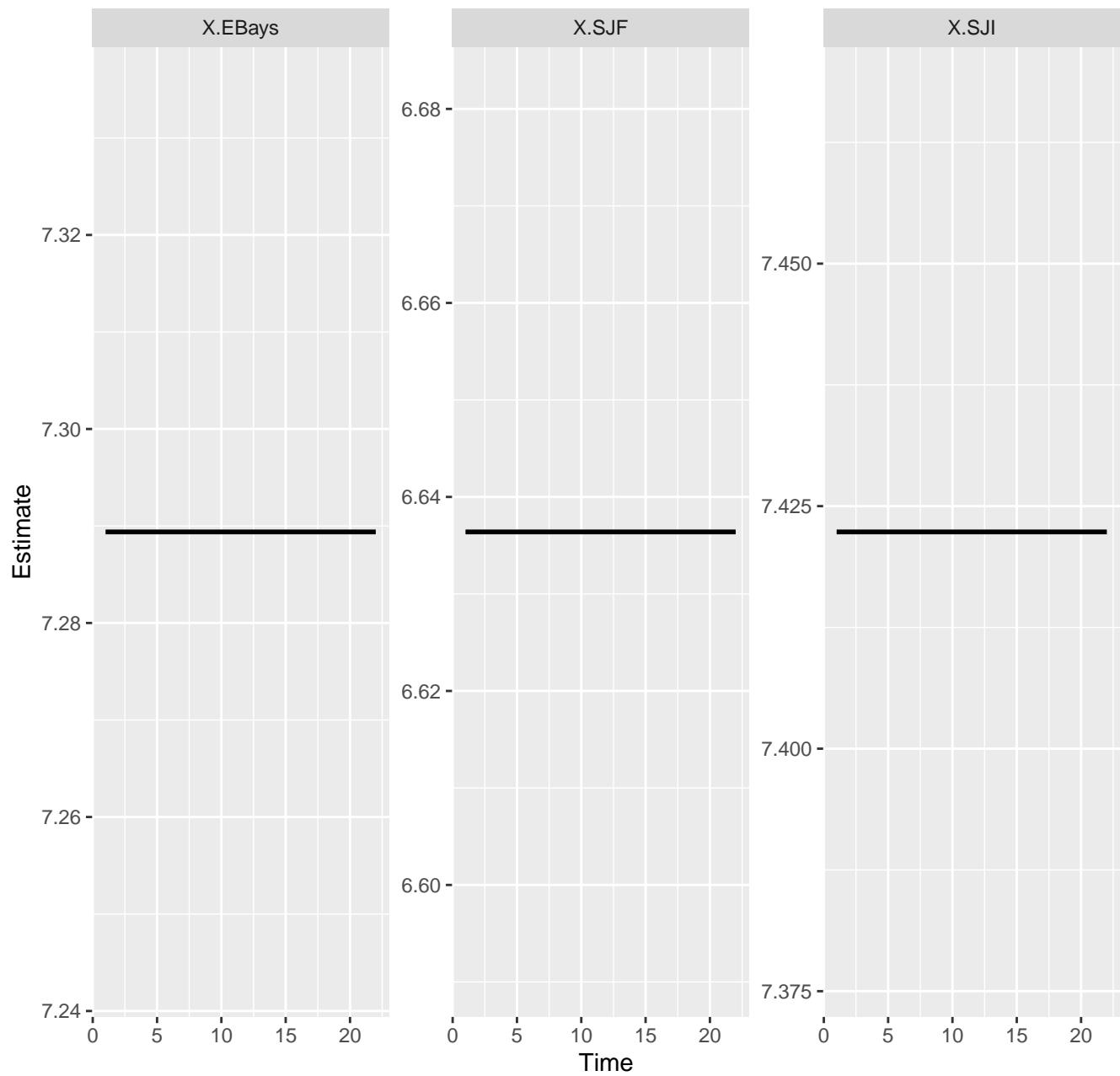
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

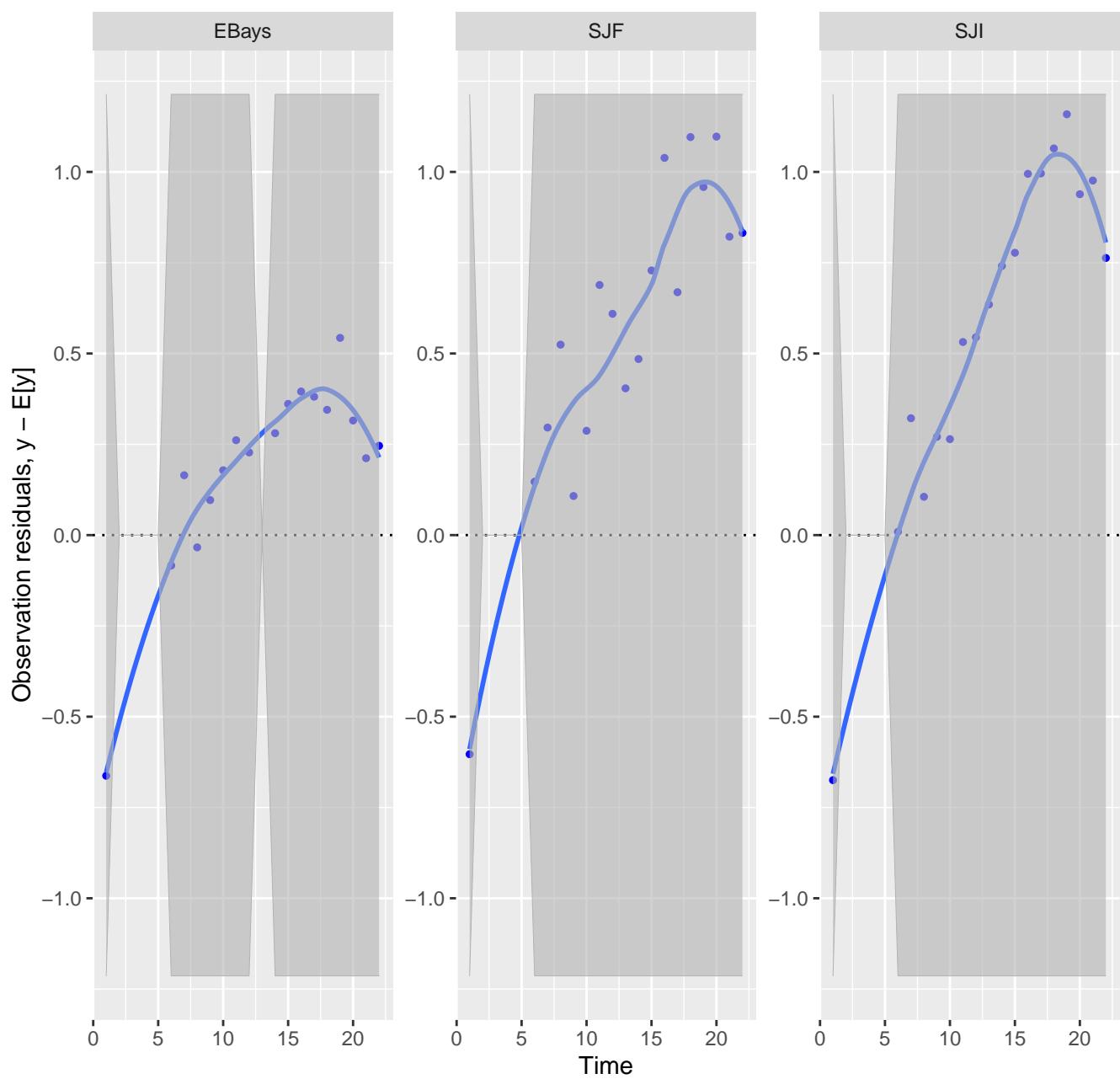
Model fitted Y + CI



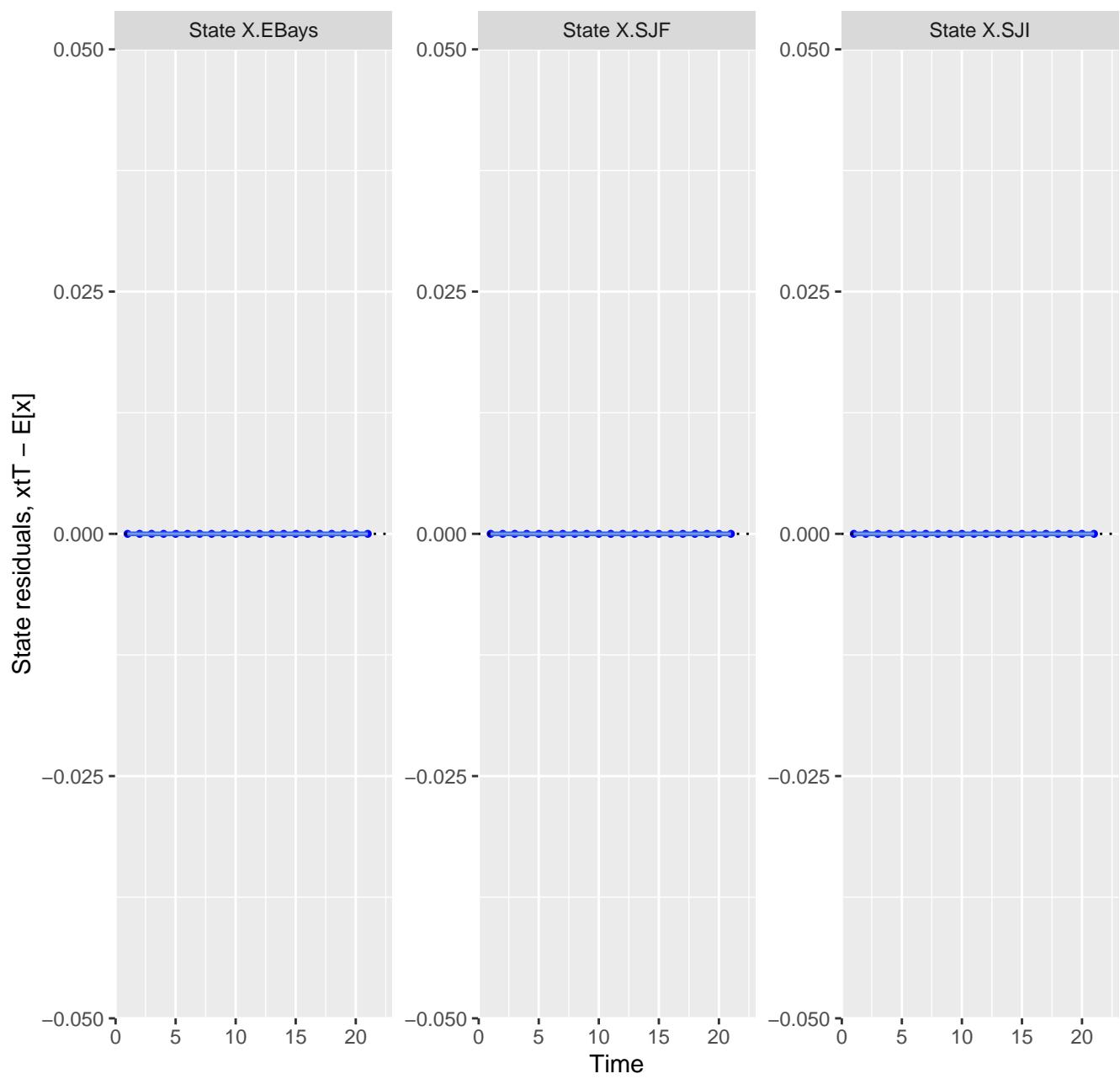
States



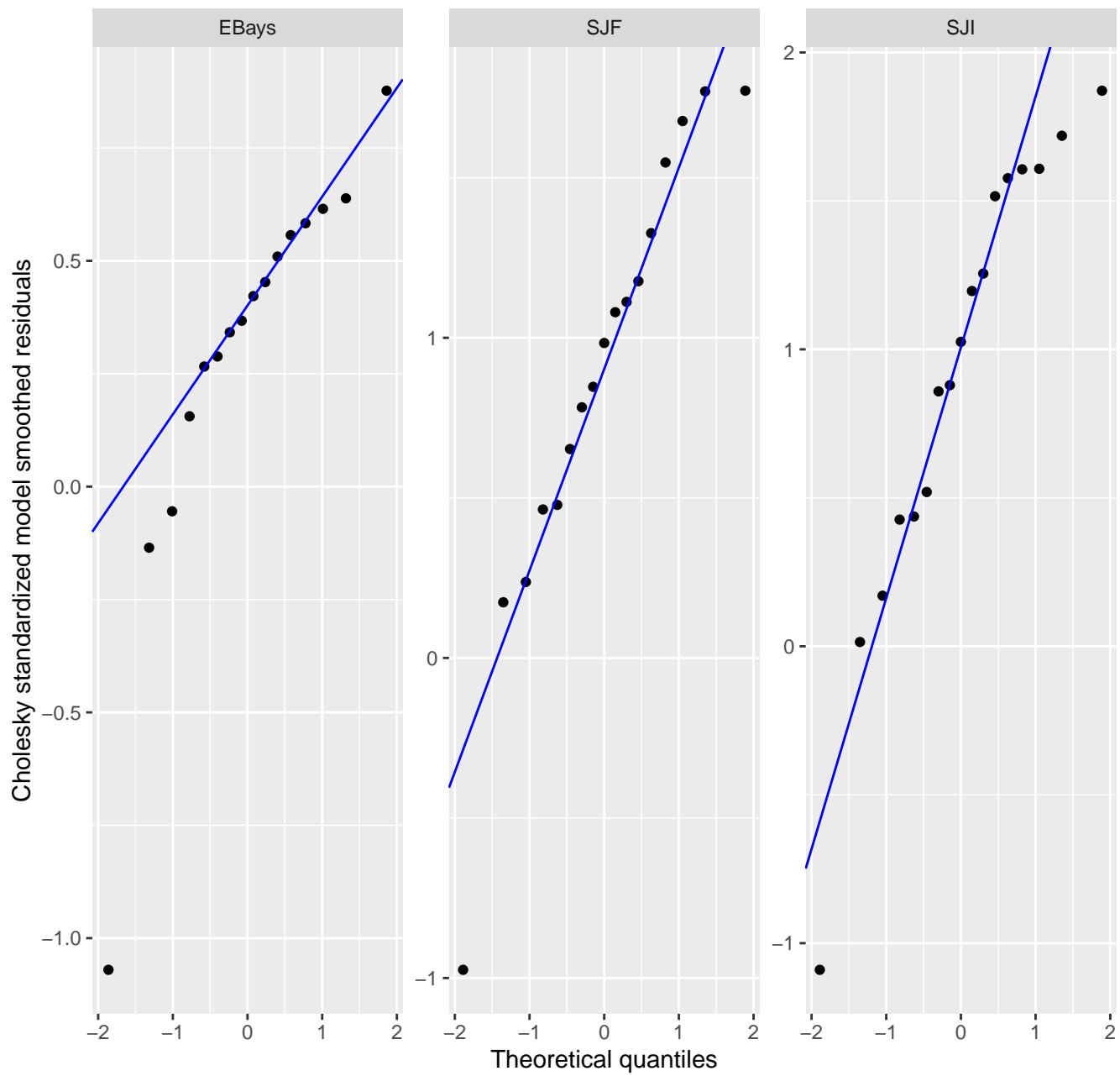
Model residuals



State residuals

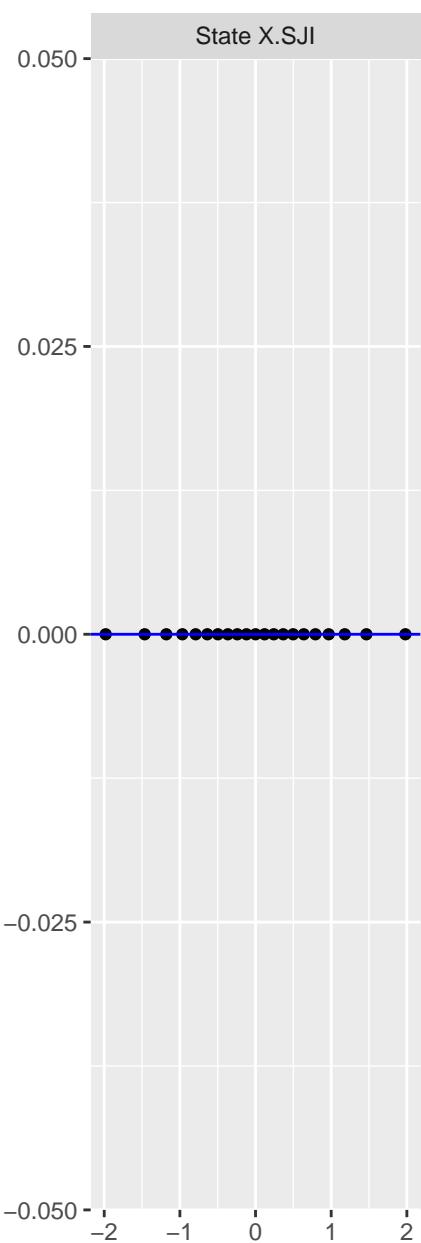
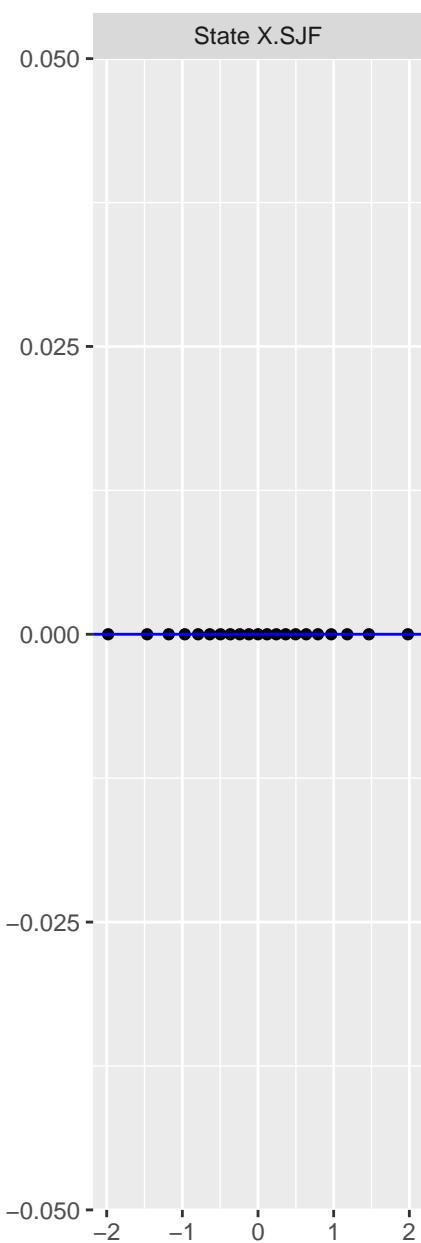
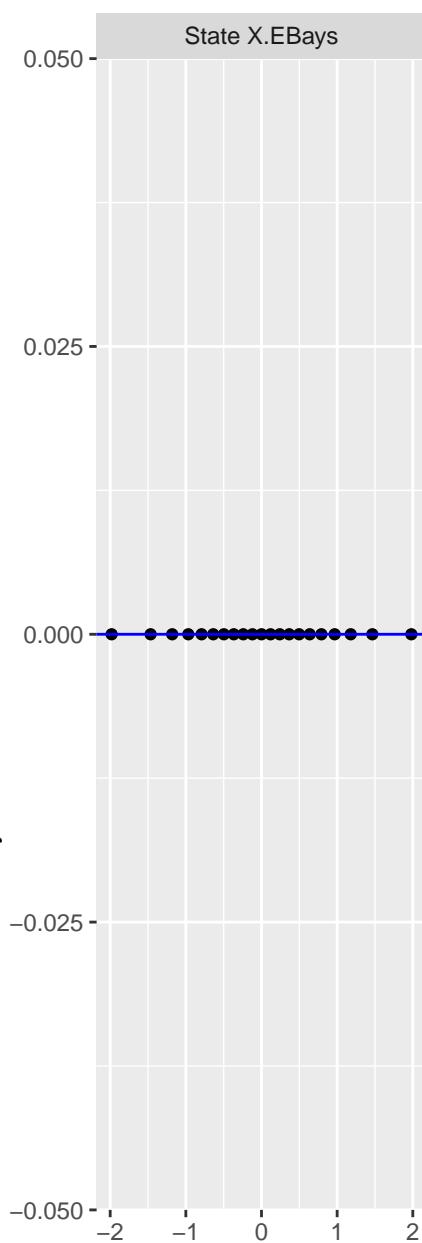


Model residuals normality test

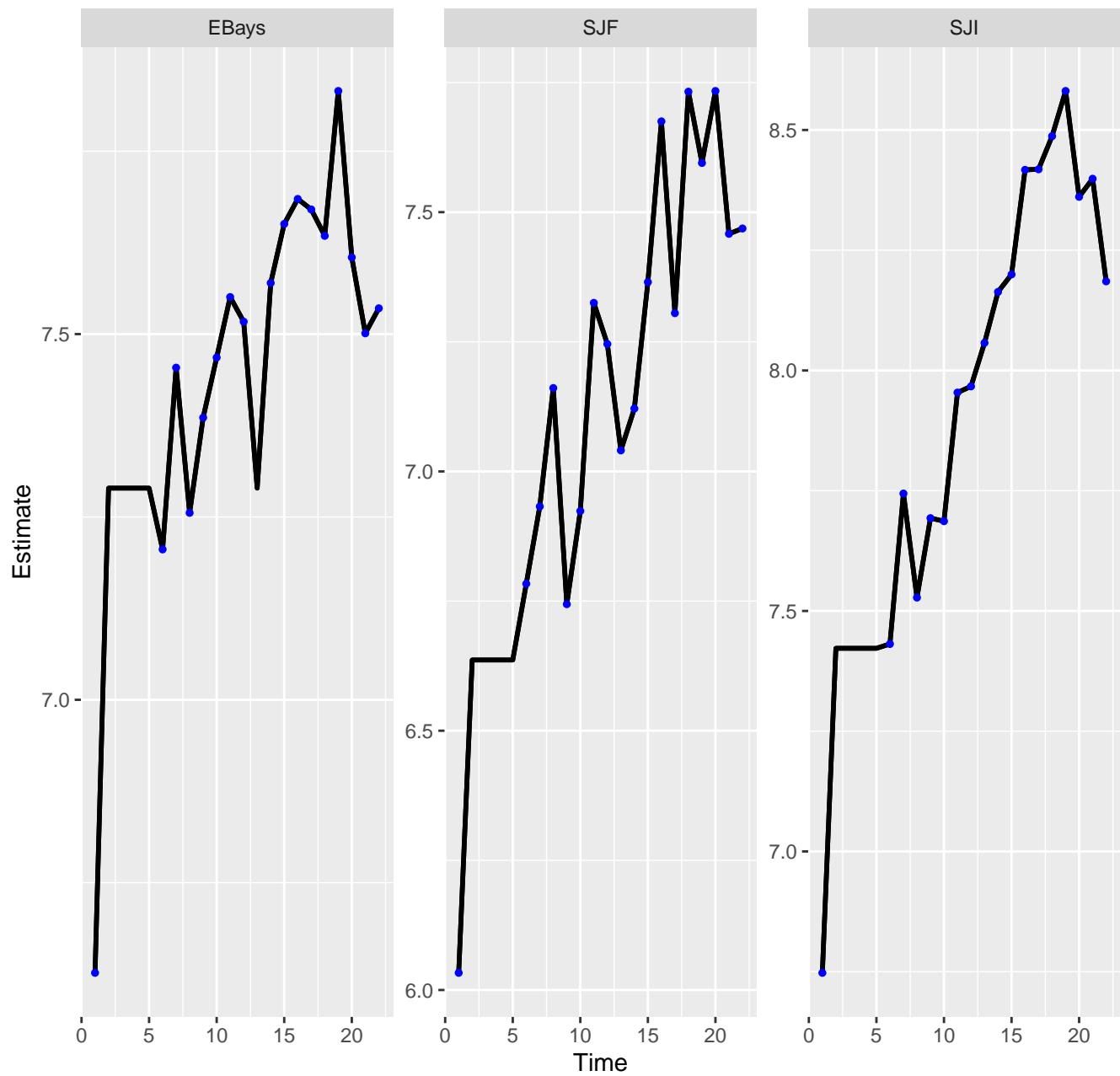


State residuals normality test

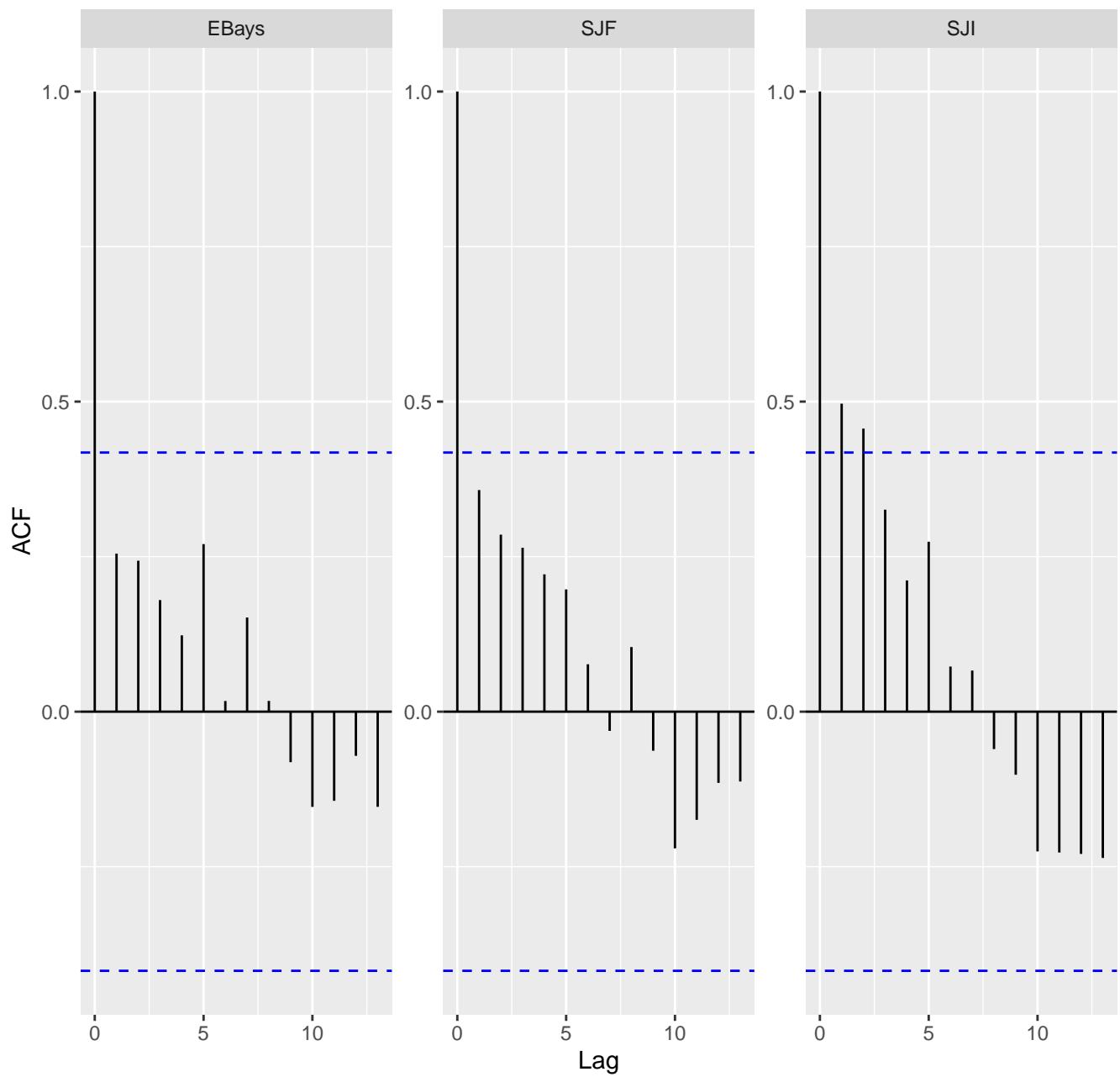
Cholesky standardized state smoothed residuals

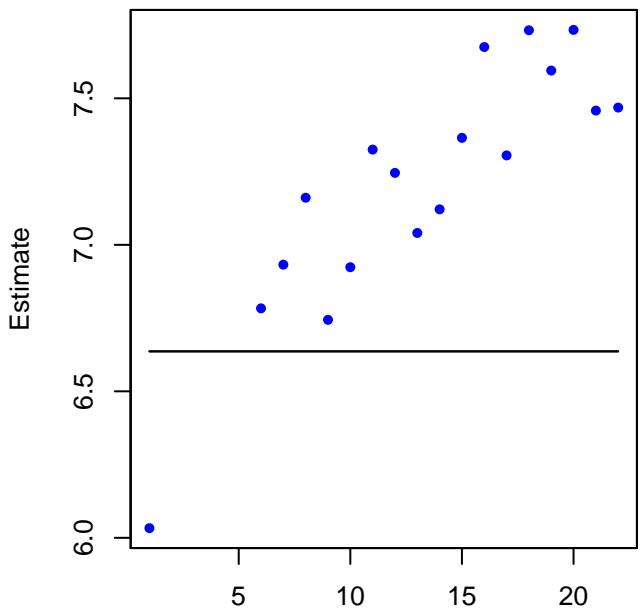
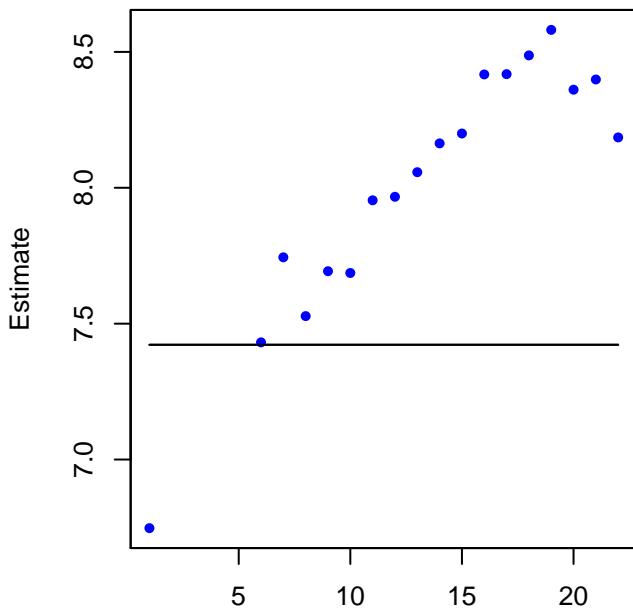
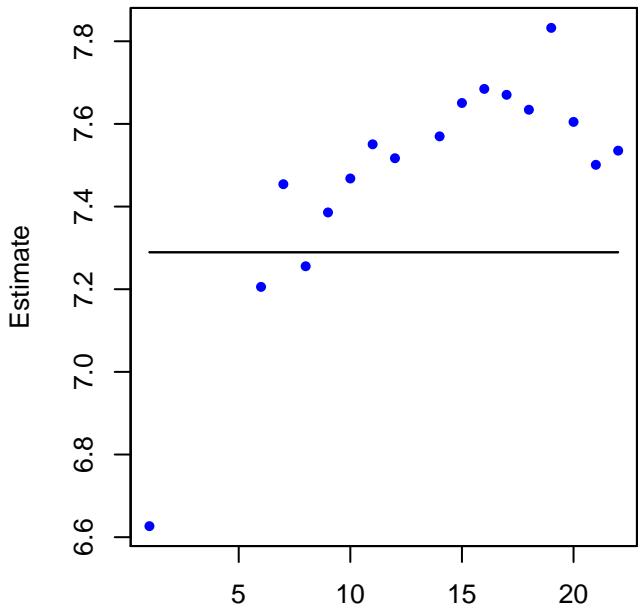


Expected value of Y conditioned on data

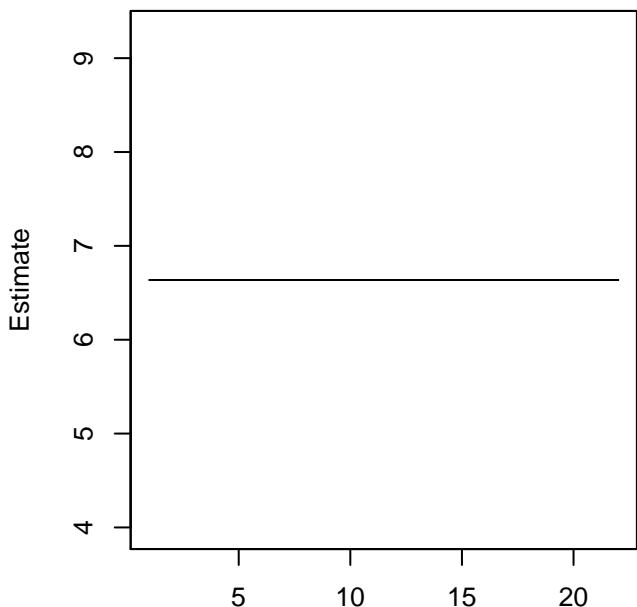


Model innovations residuals ACF

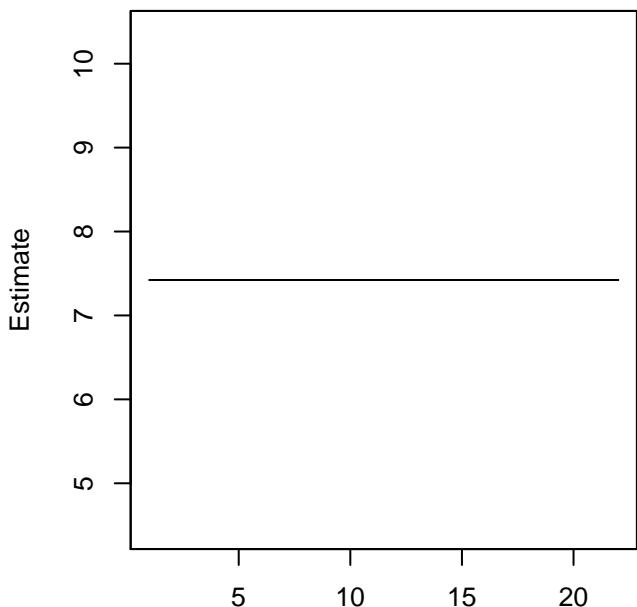


SJF + CI**SJI + CI****EBays + CI**

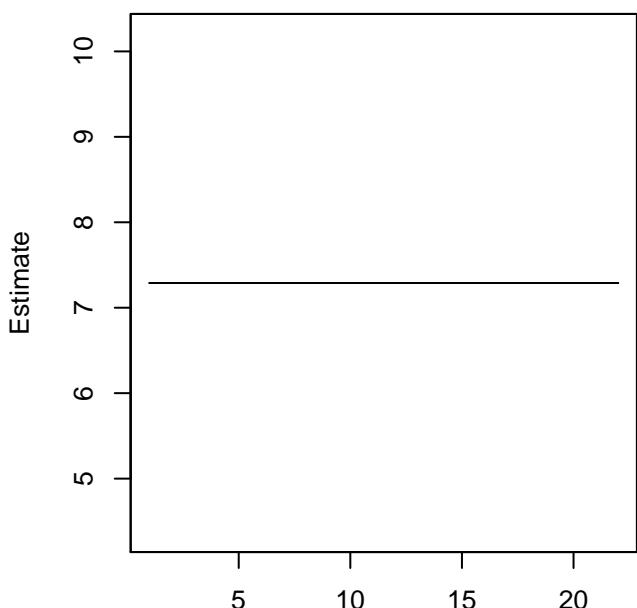
State X.SJF



State X.SJI

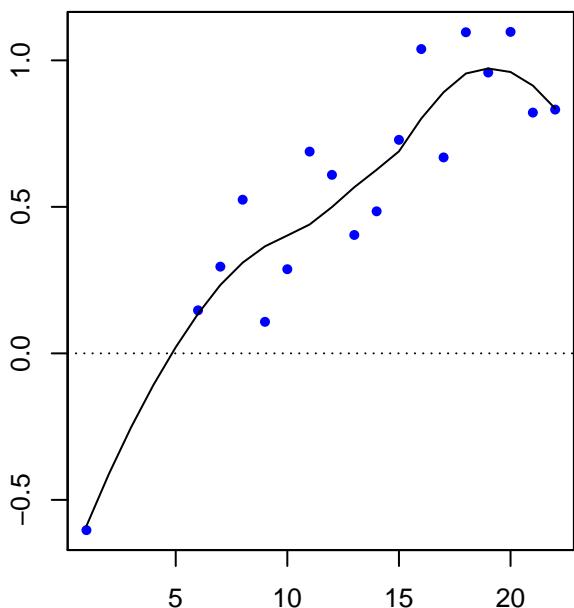


State X.EBays

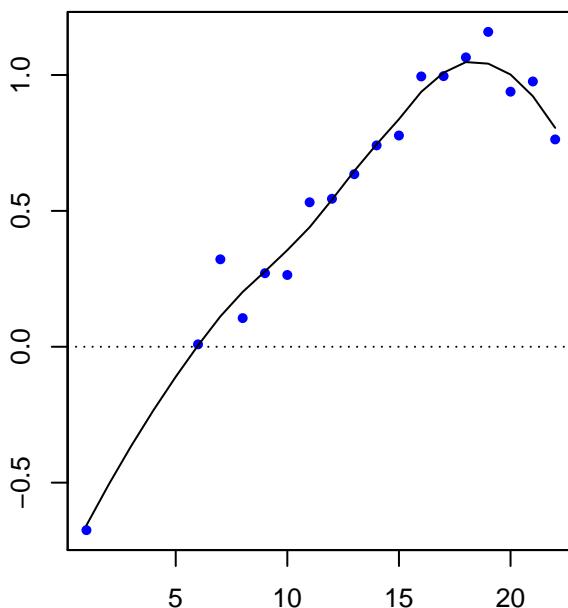


Observation residuals, $y - E[y]$

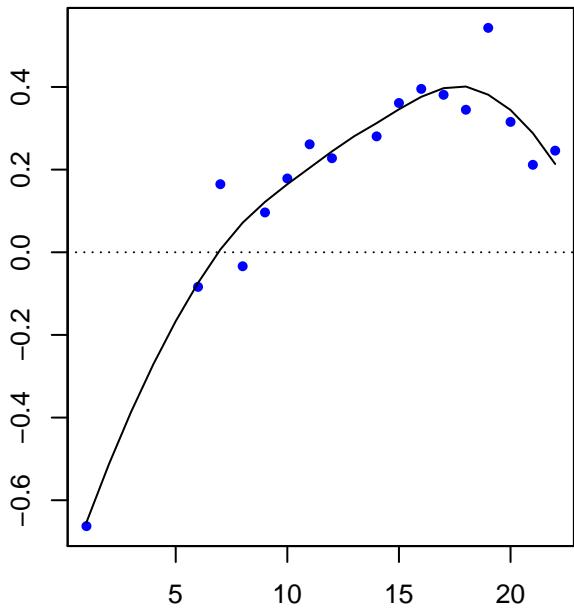
SJF



SJI

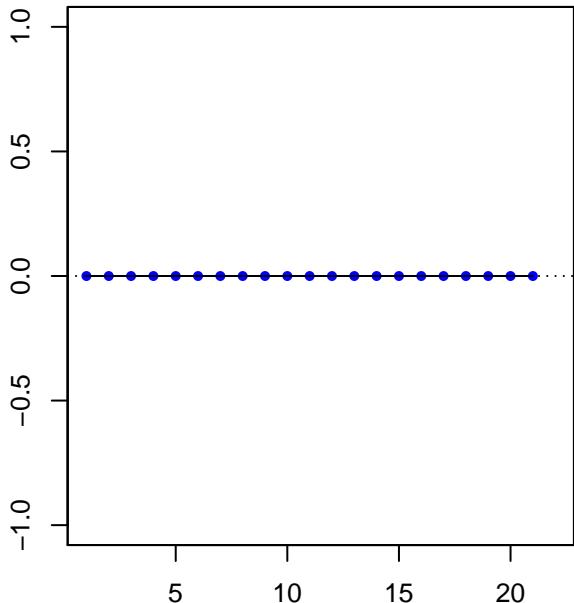


EBays

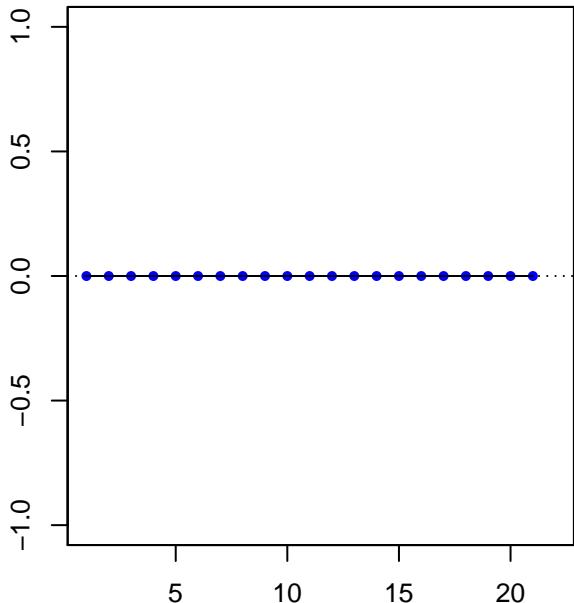


State residuals, $x_{tT} - E[x]$

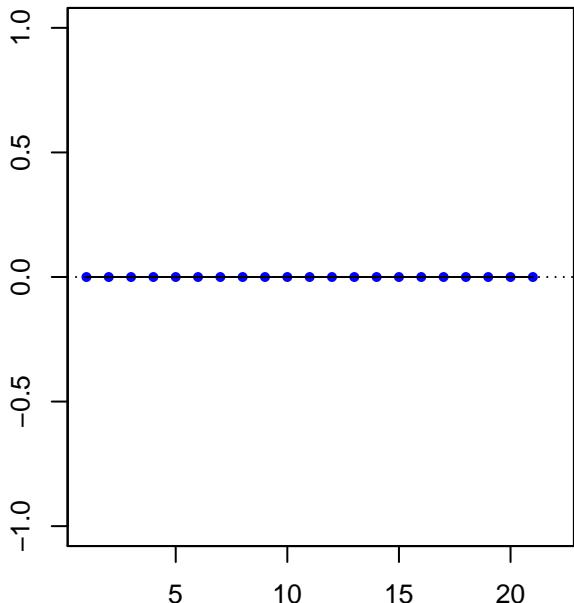
State X.SJF

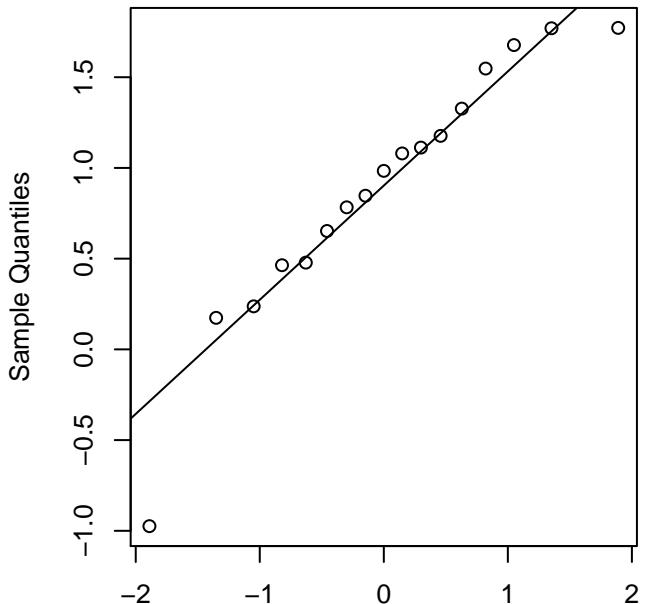
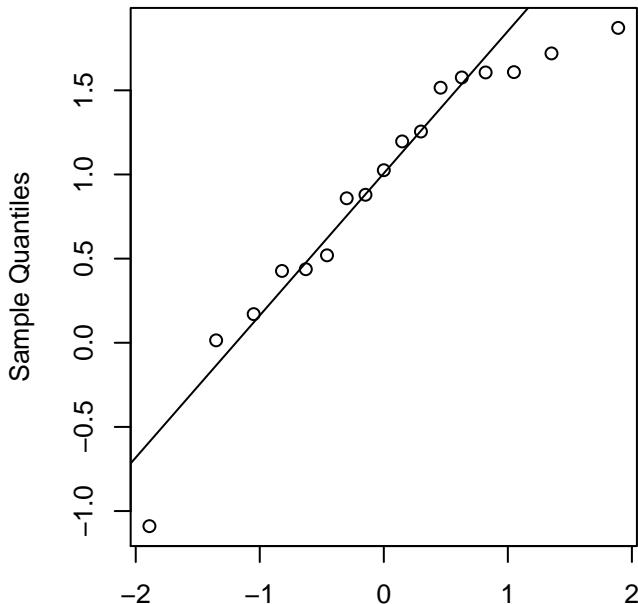
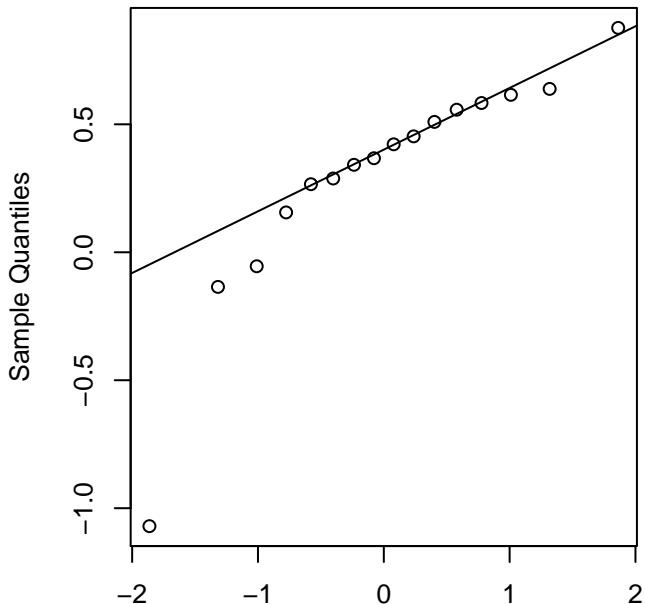


State X.SJI

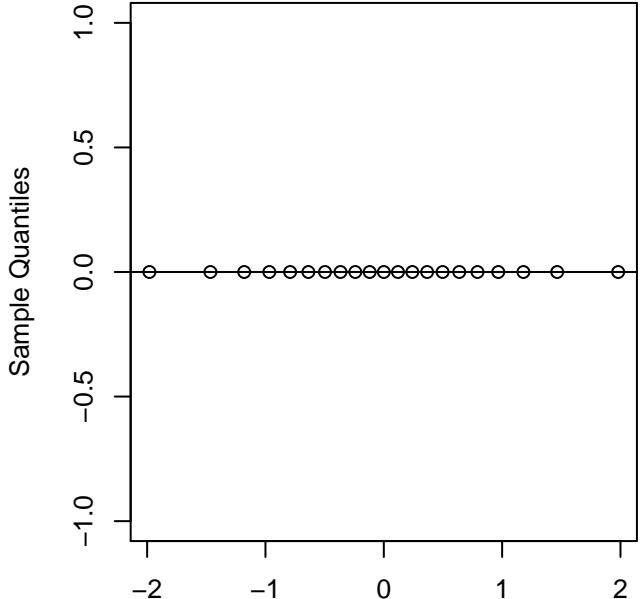


State X.EBays

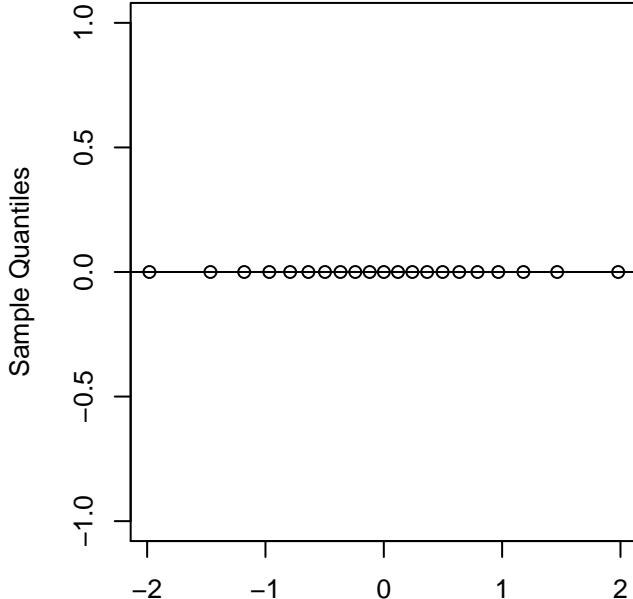


SJF**SJI****EBays**

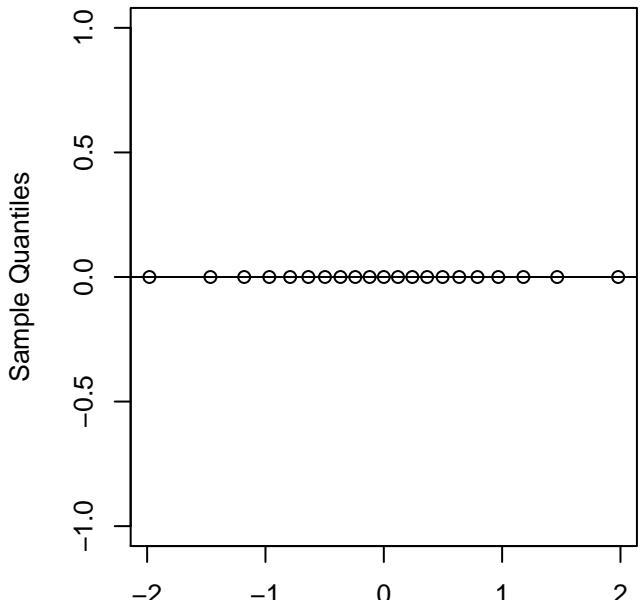
State X.SJF

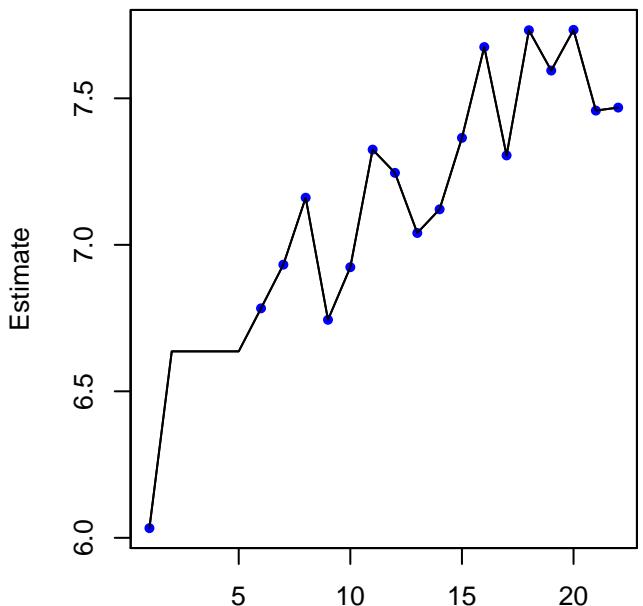
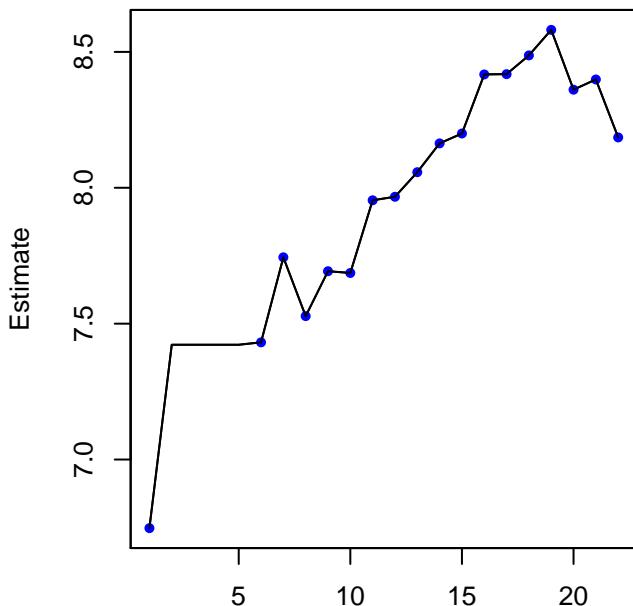
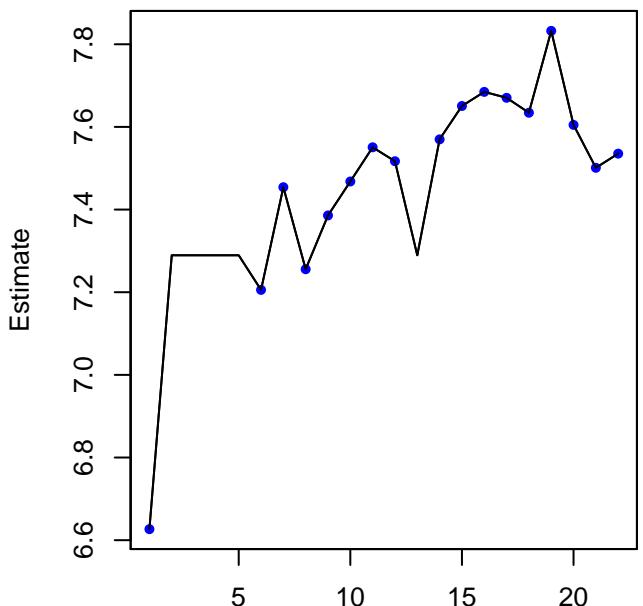


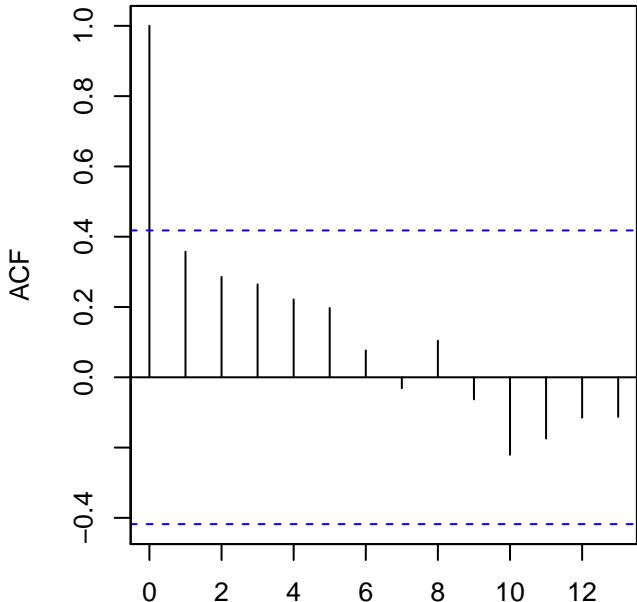
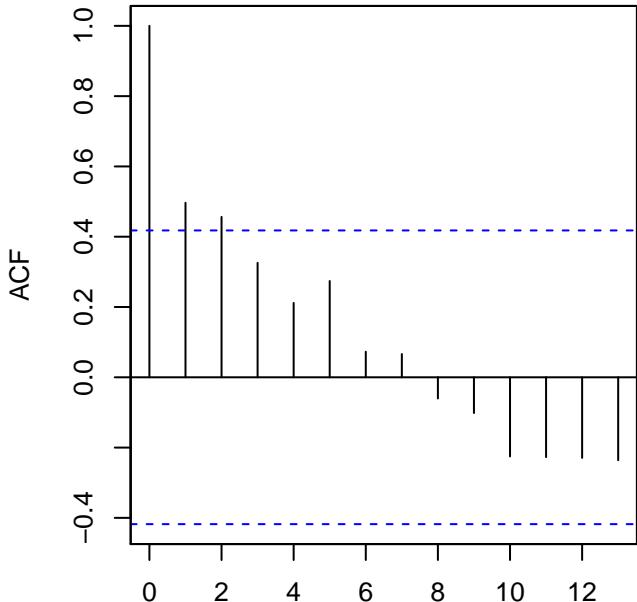
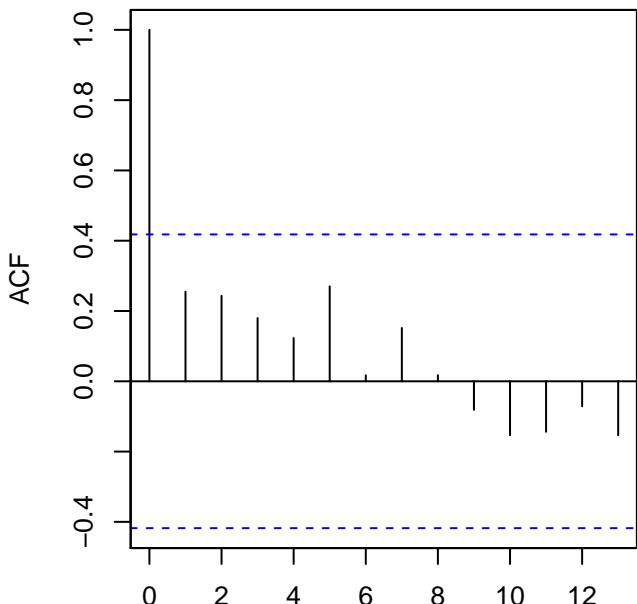
State X.SJI



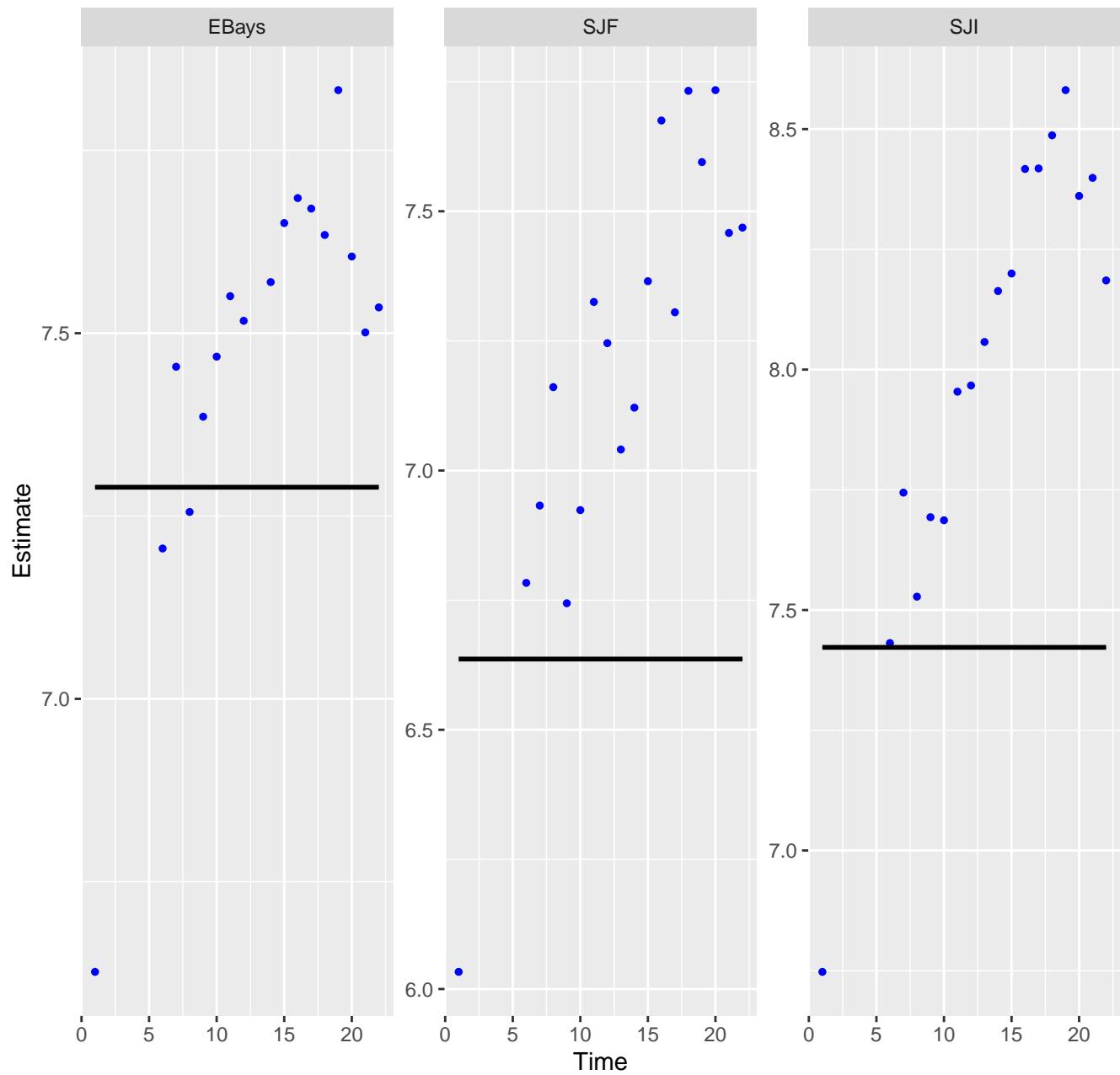
State X.EBays



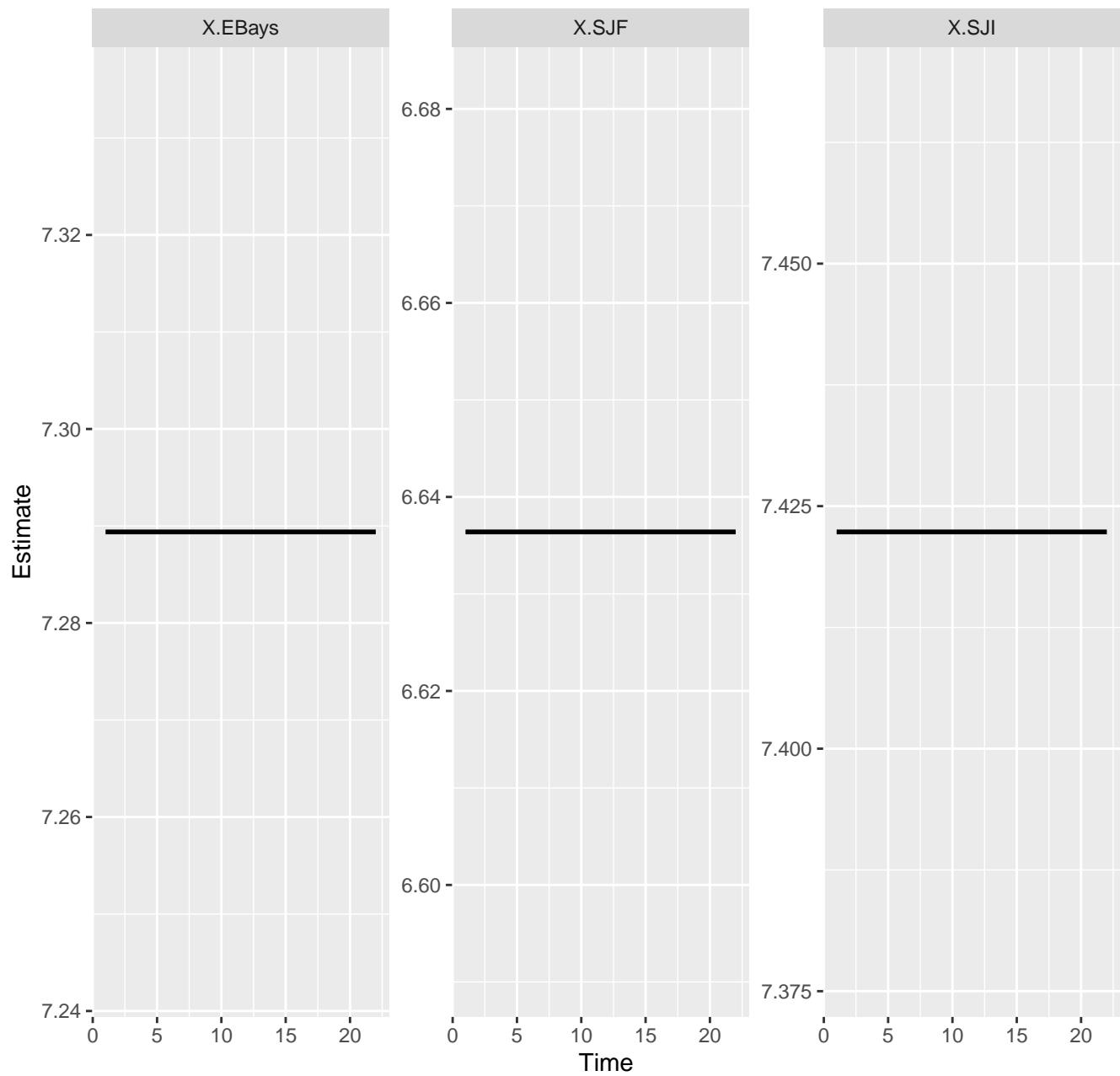
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

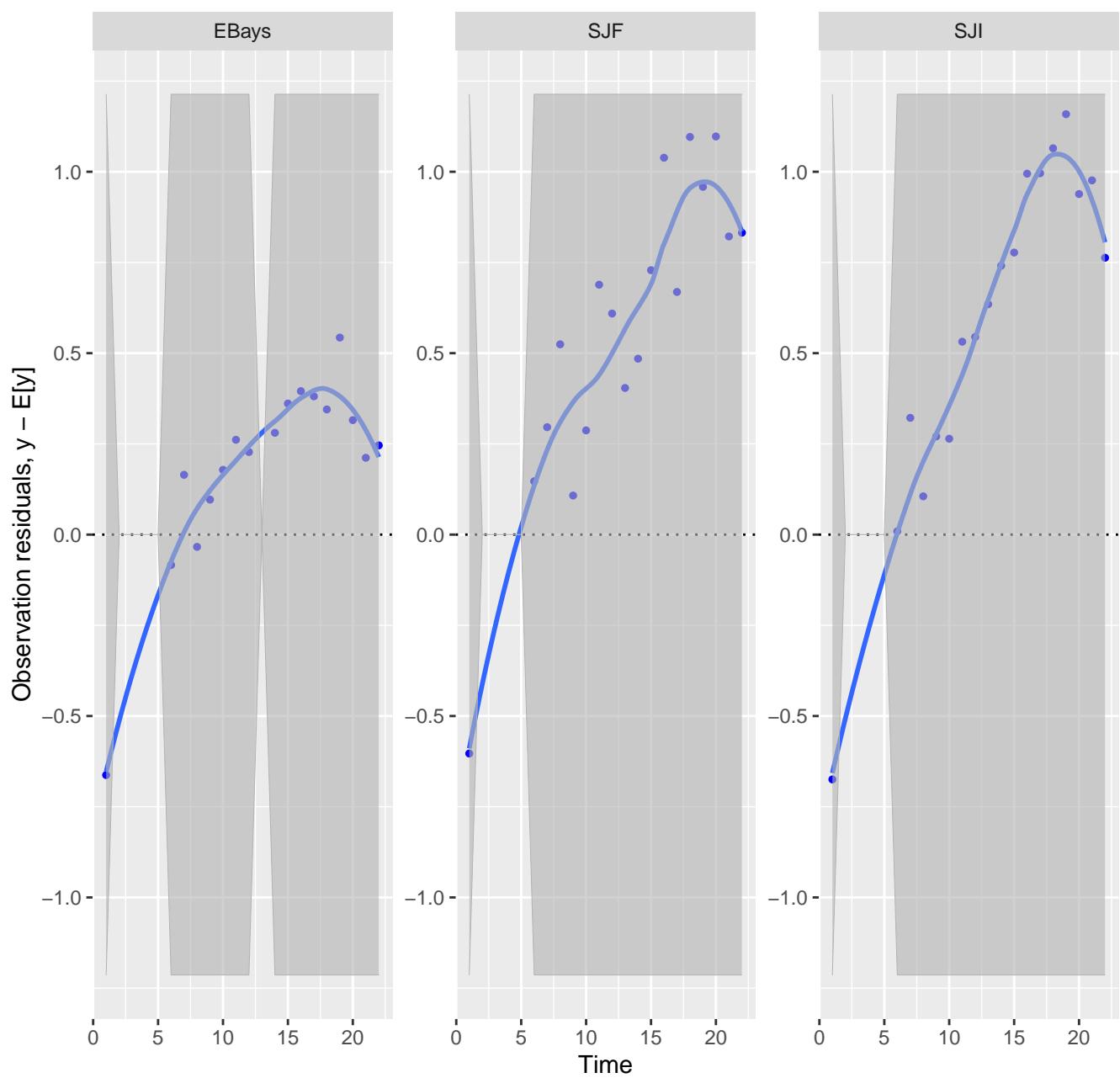
Model fitted Y + CI



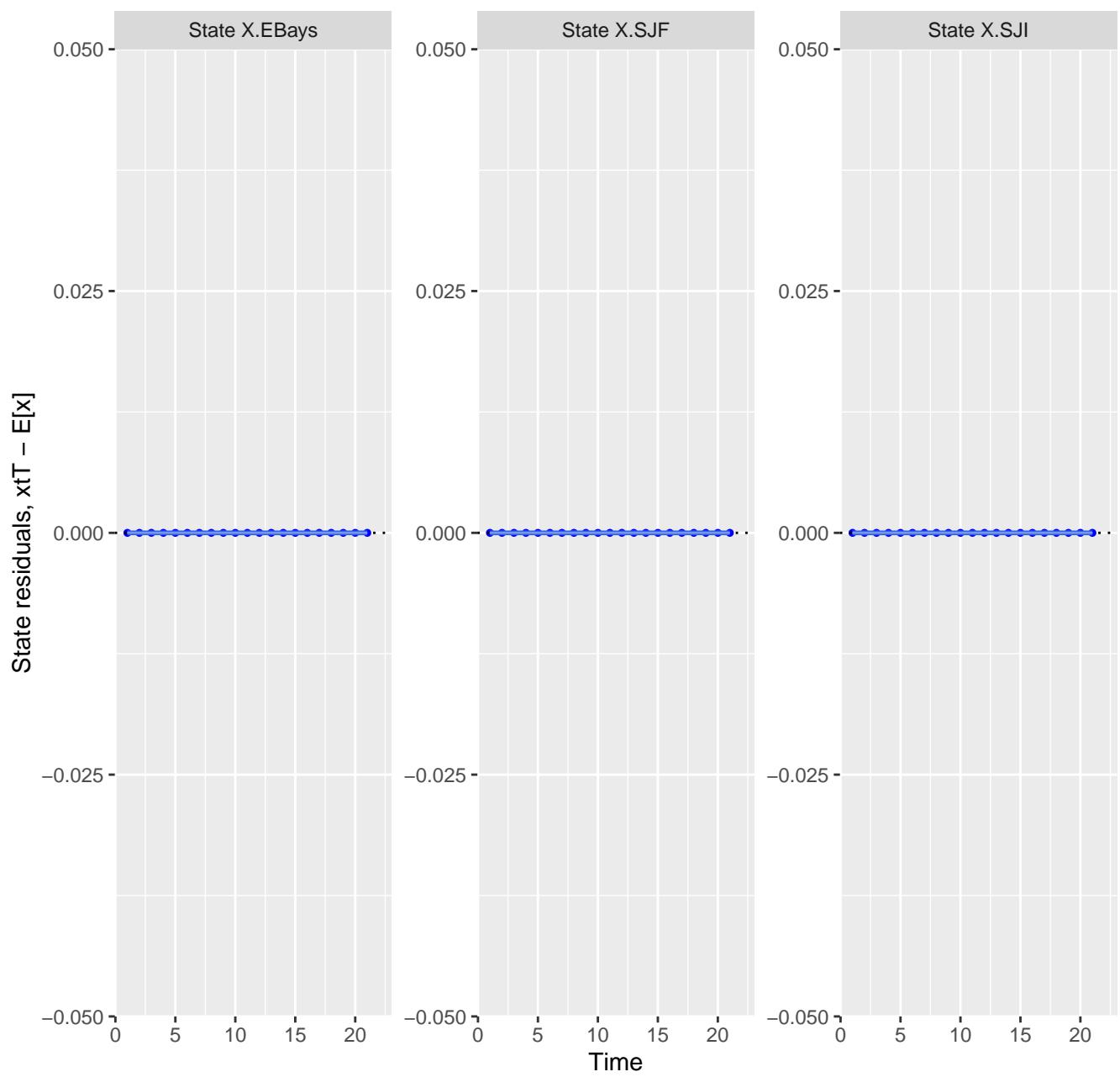
States



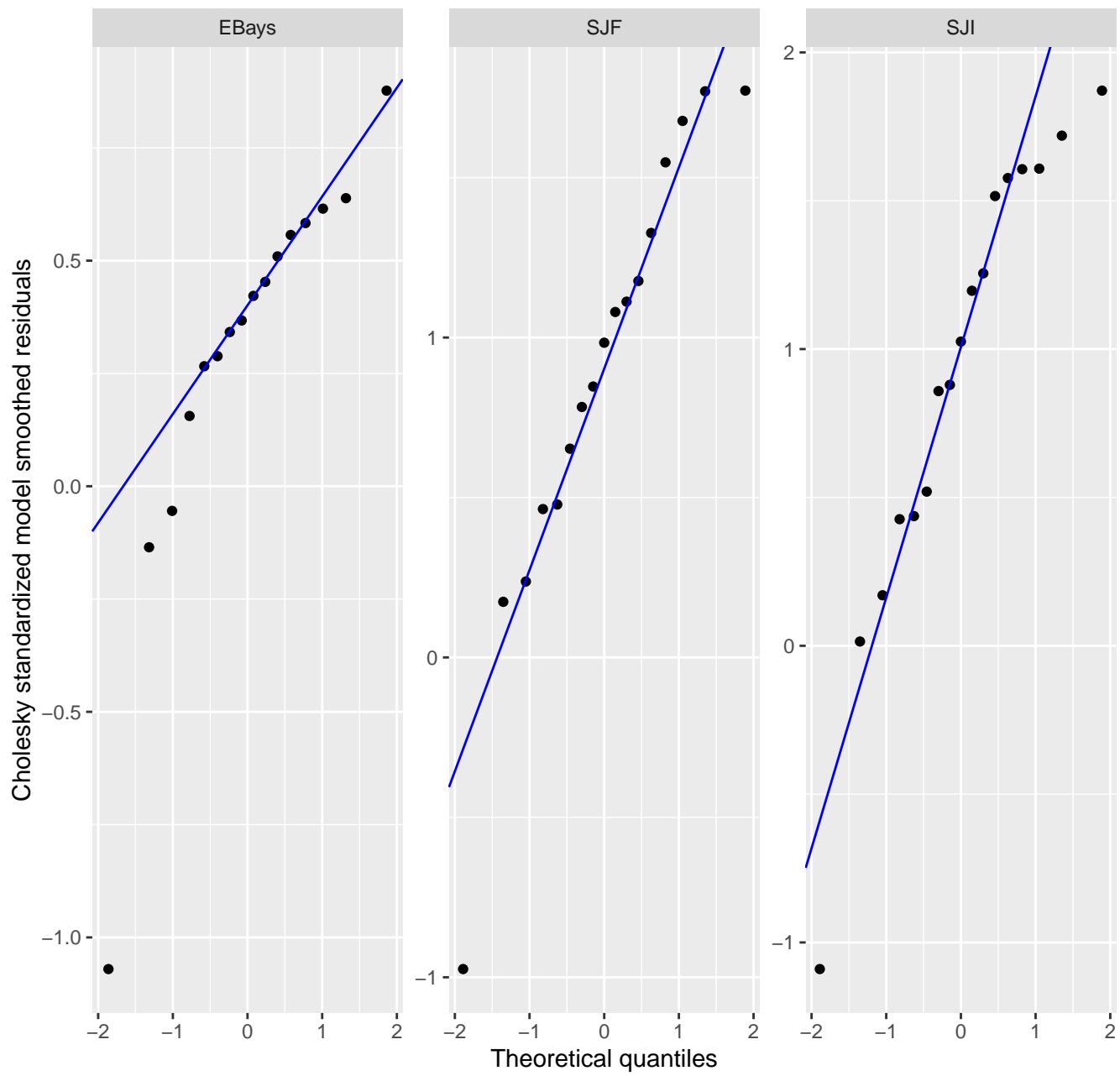
Model residuals



State residuals

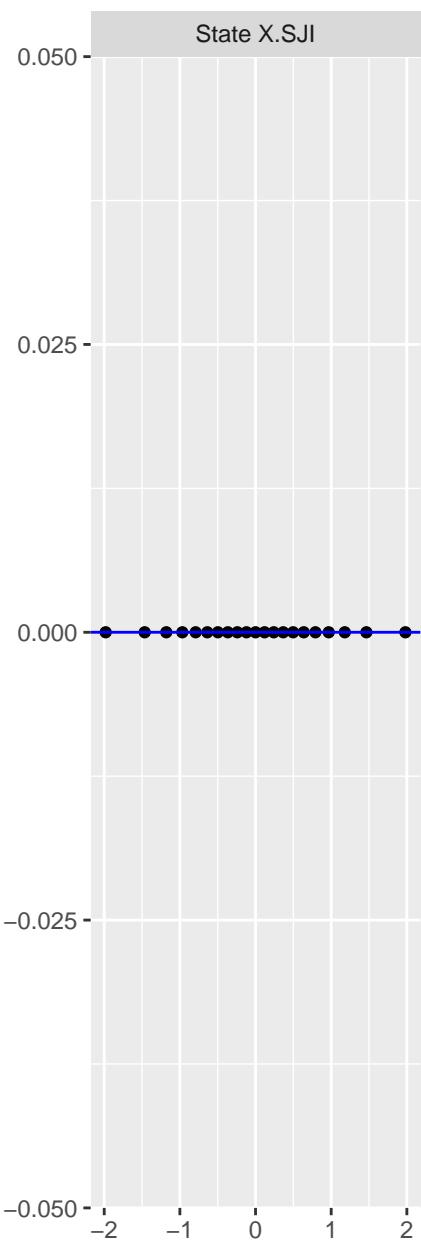
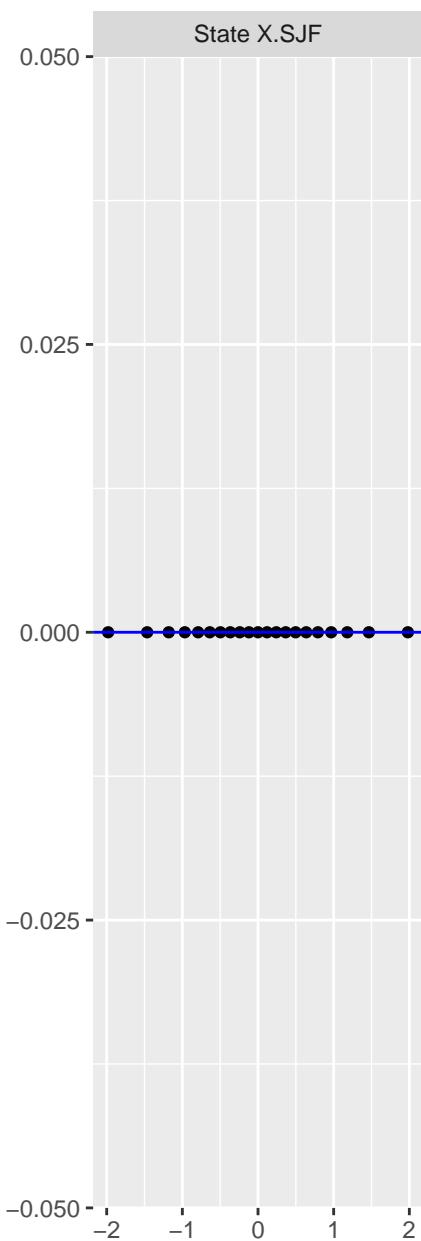
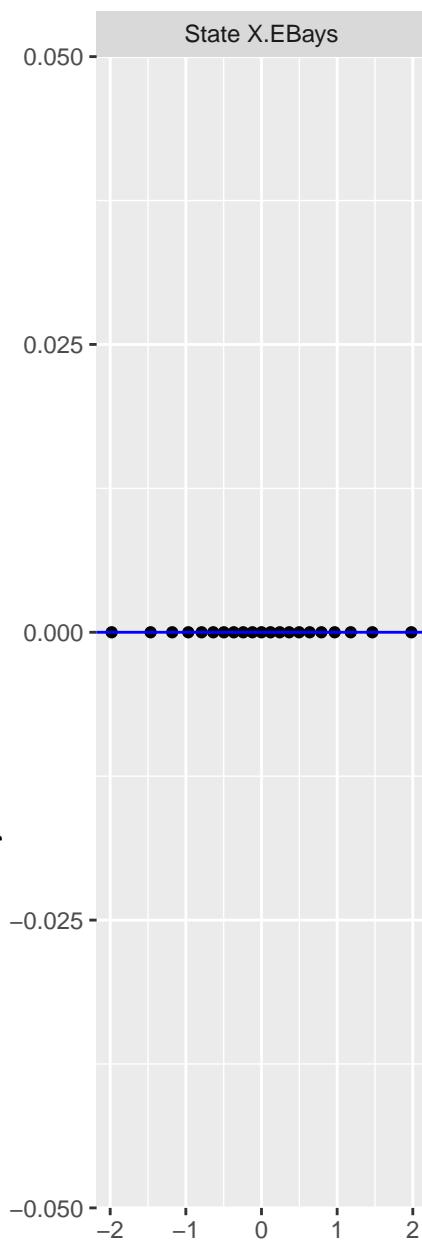


Model residuals normality test

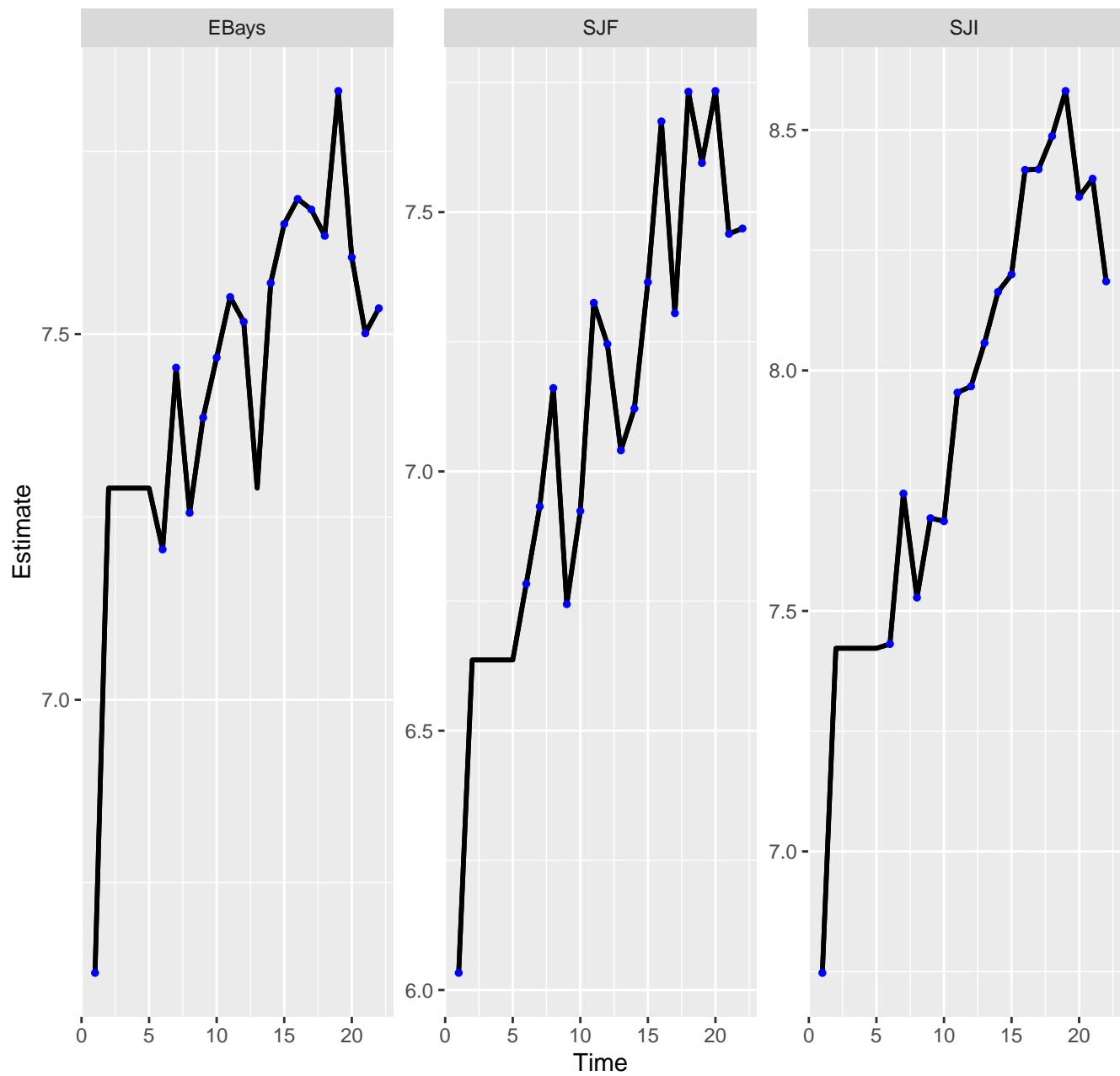


State residuals normality test

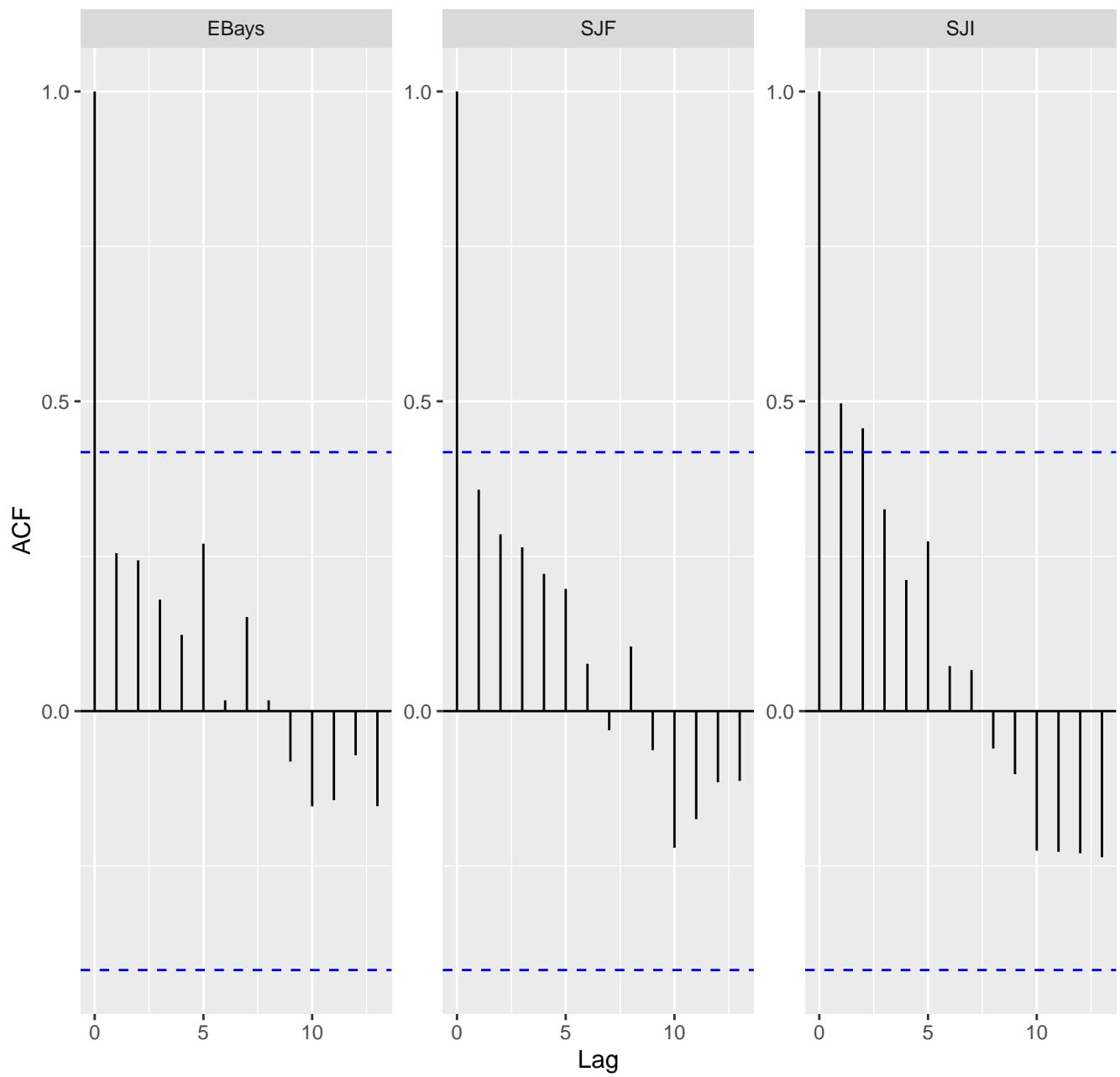
Cholesky standardized state smoothed residuals

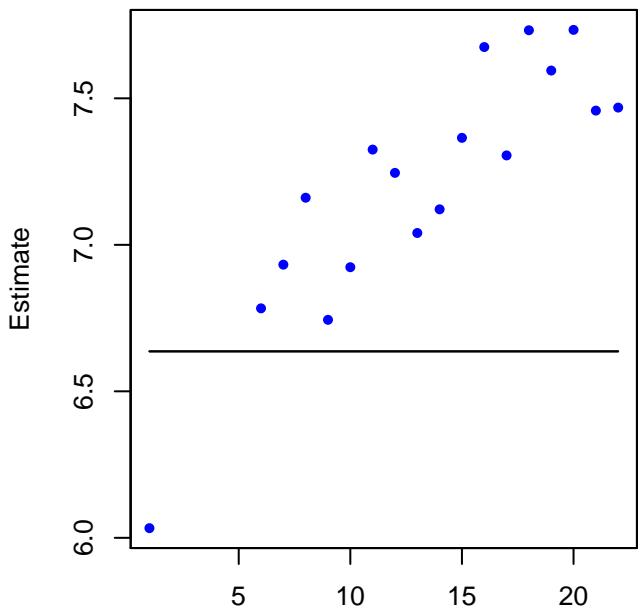
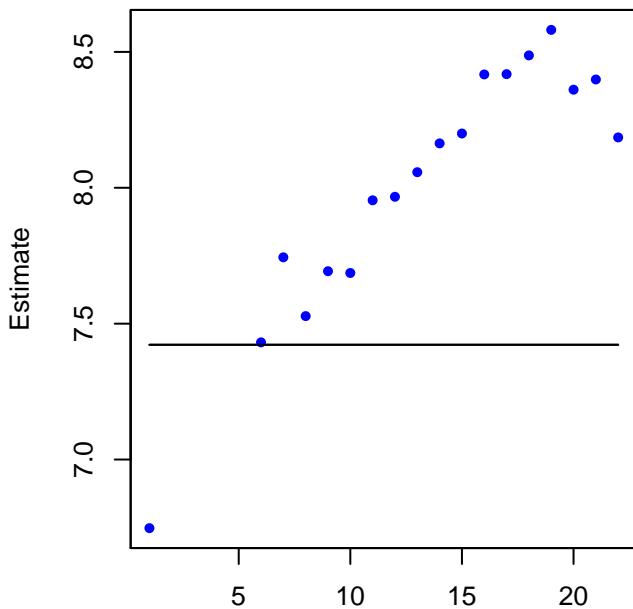
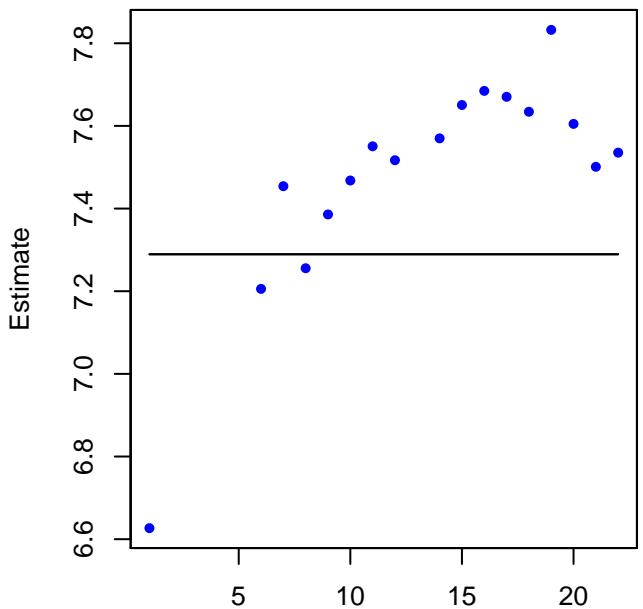


Expected value of Y conditioned on data

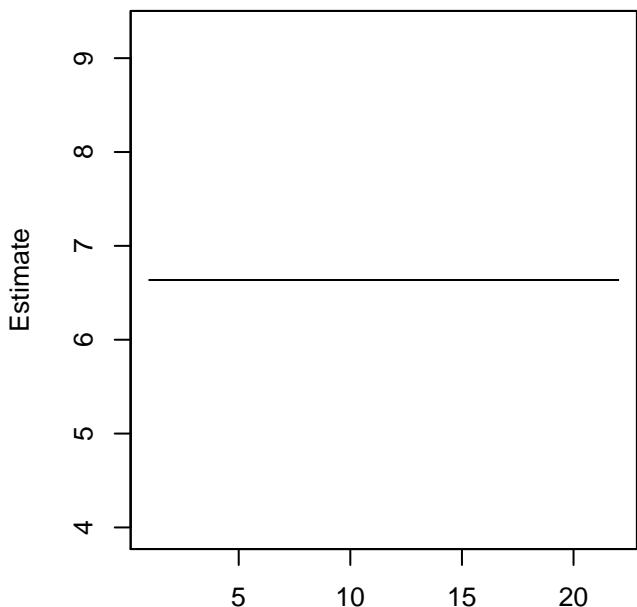


Model innovations residuals ACF

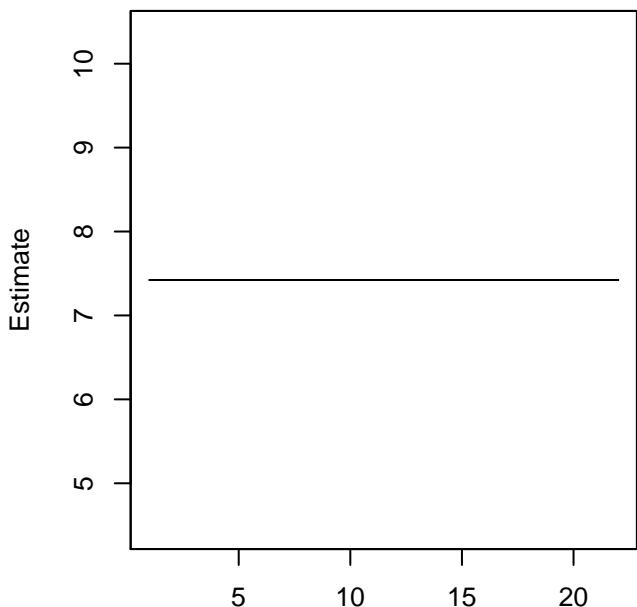


SJF + CI**SJI + CI****EBays + CI**

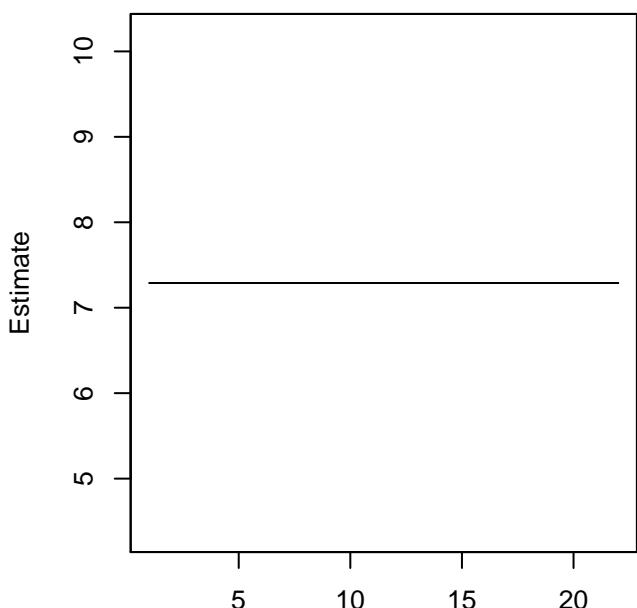
State X.SJF



State X.SJI

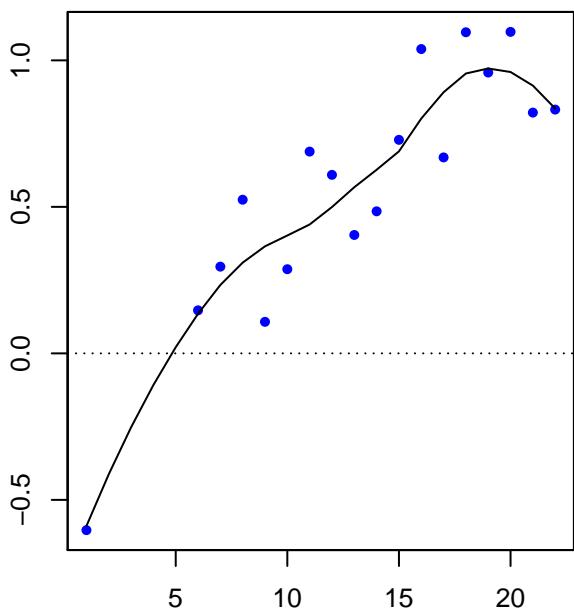


State X.EBays

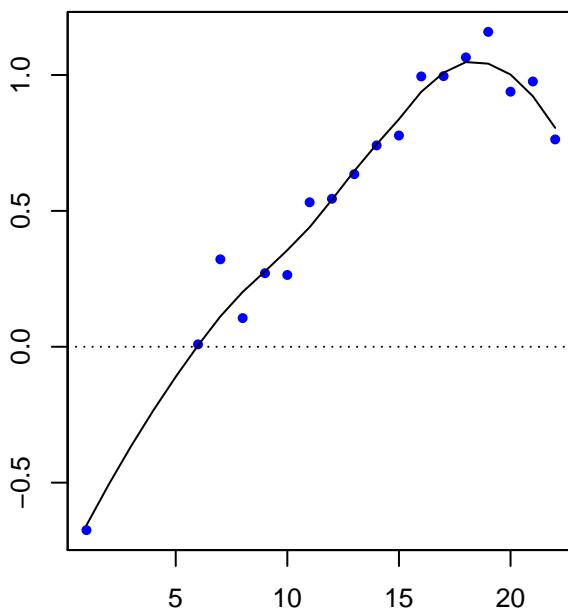


Observation residuals, $y - E[y]$

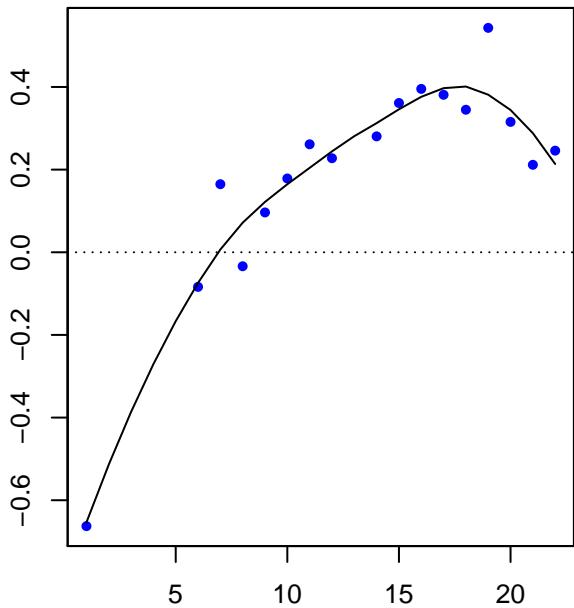
SJF



SJI

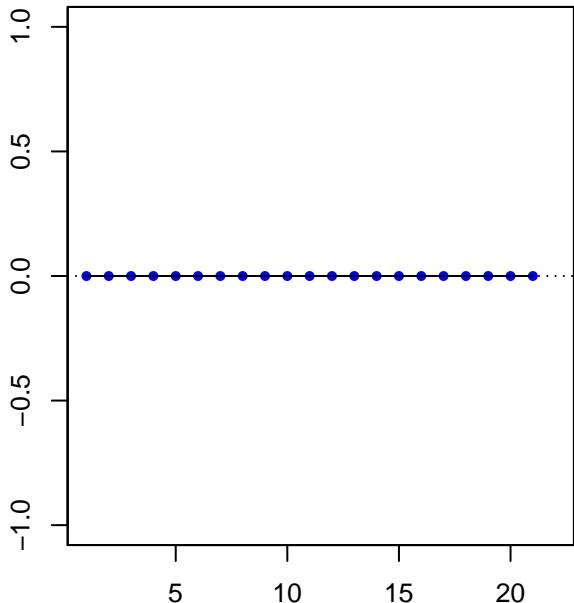


EBays

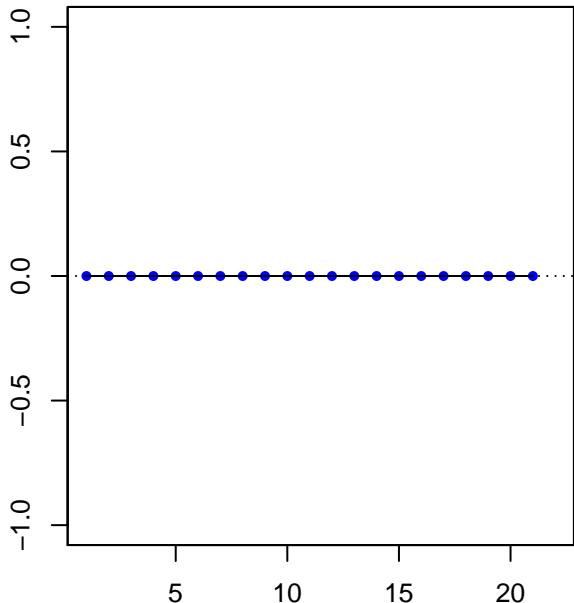


State residuals, $x_{tT} - E[x]$

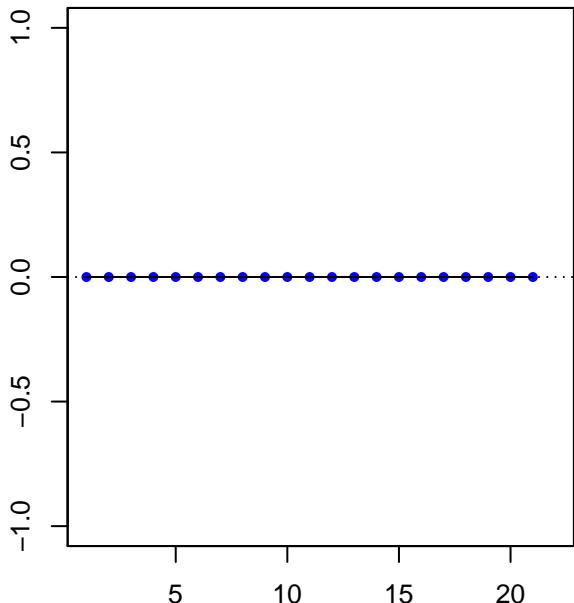
State X.SJF

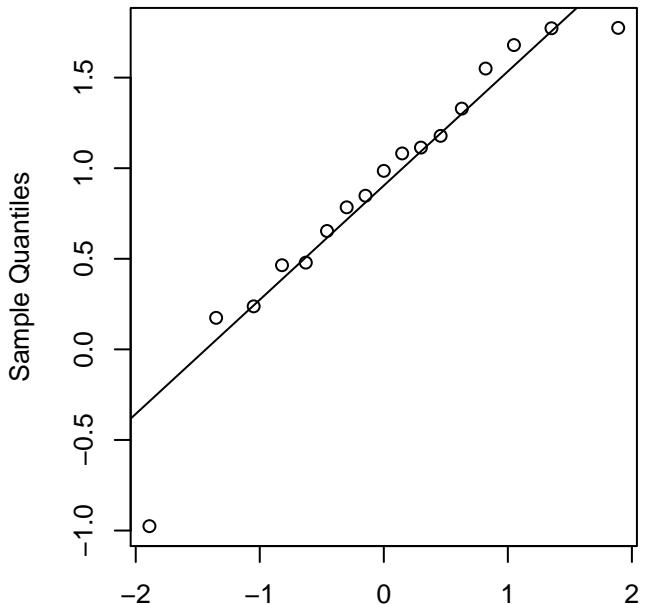
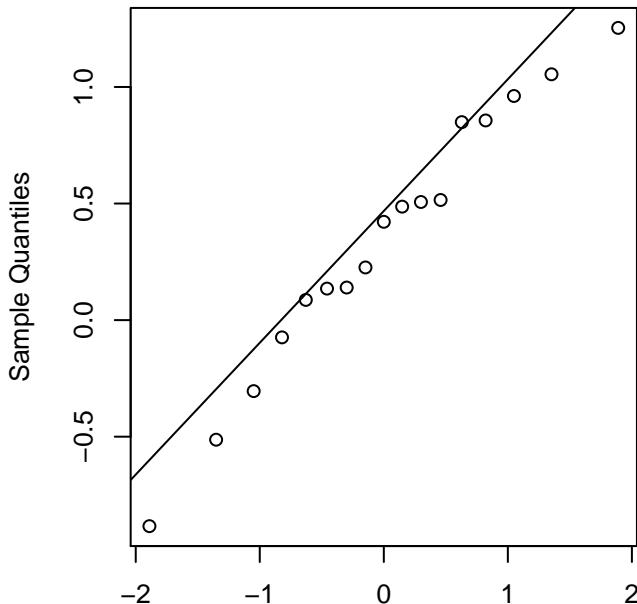
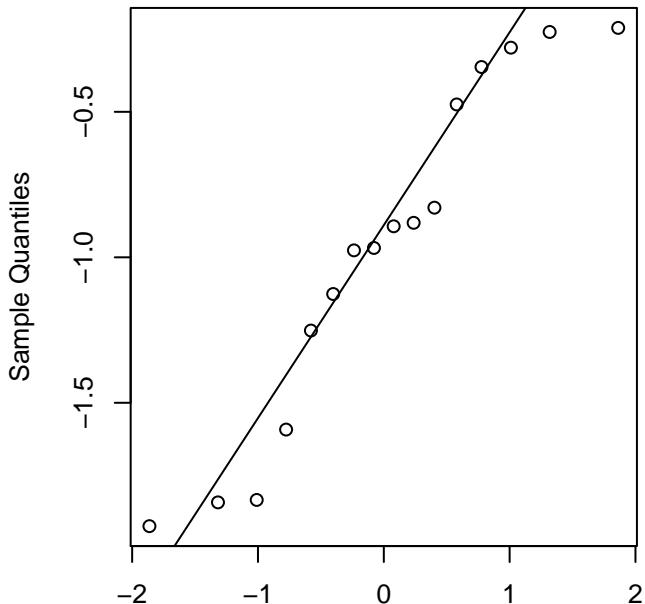


State X.SJI

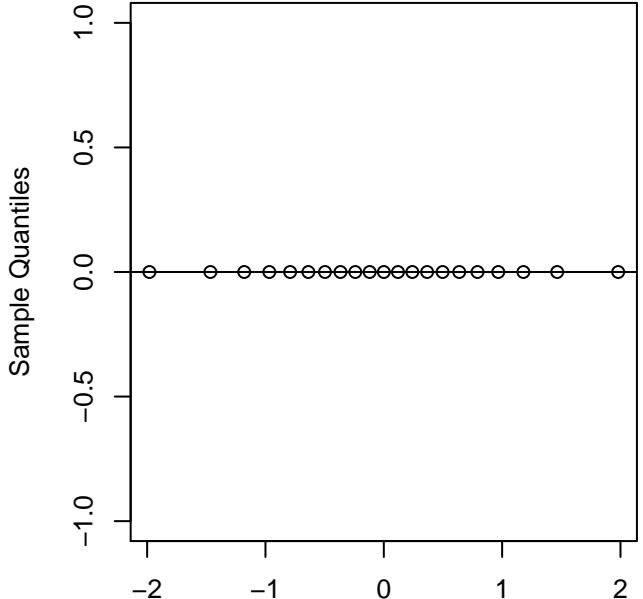


State X.EBays

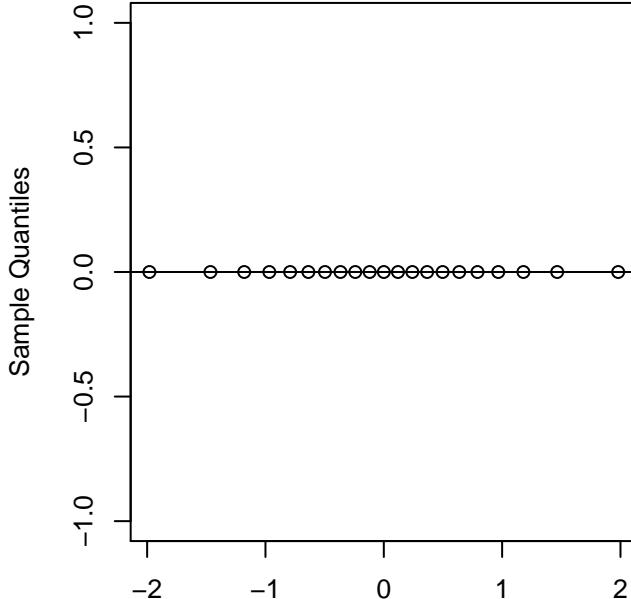


SJF**SJI****EBays**

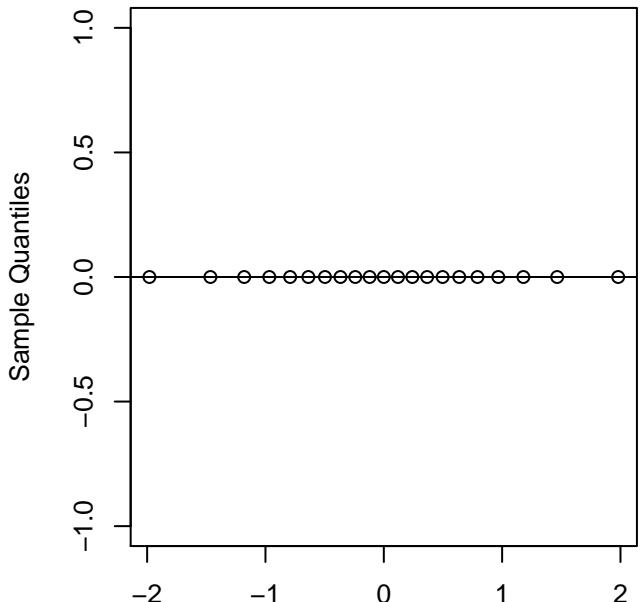
State X.SJF

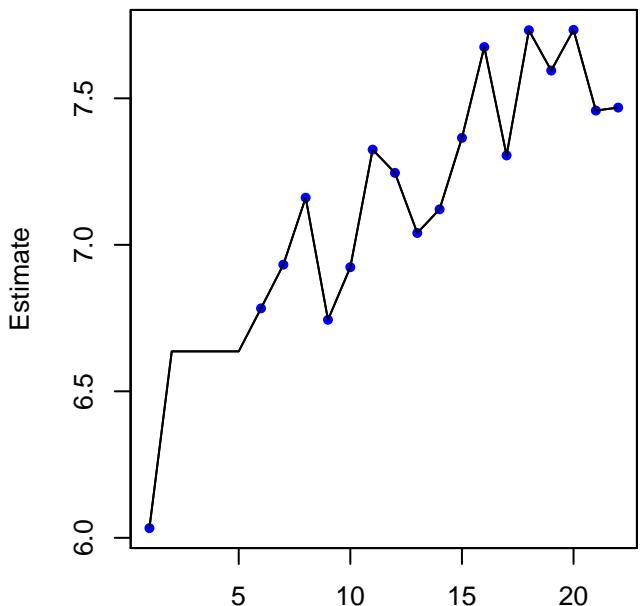
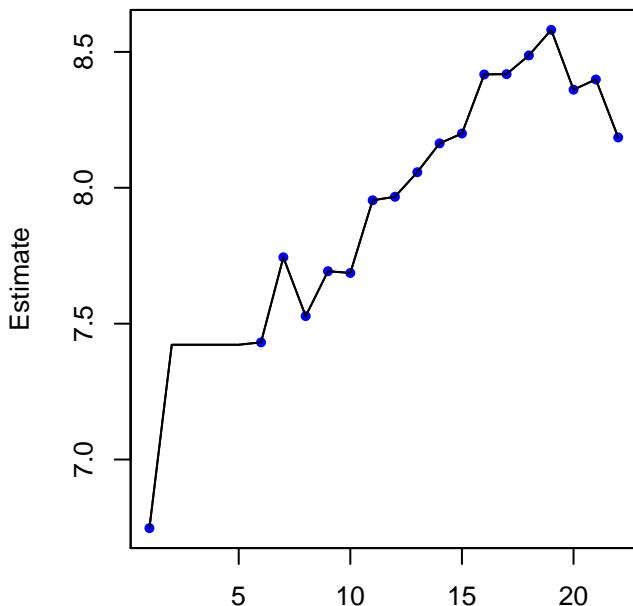
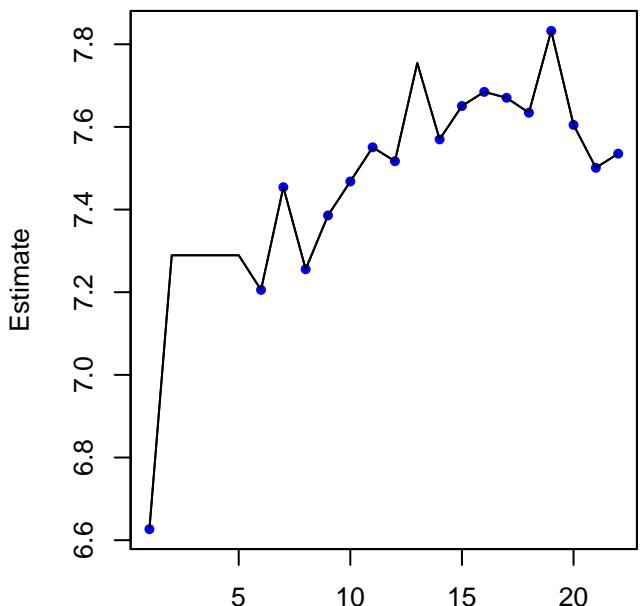


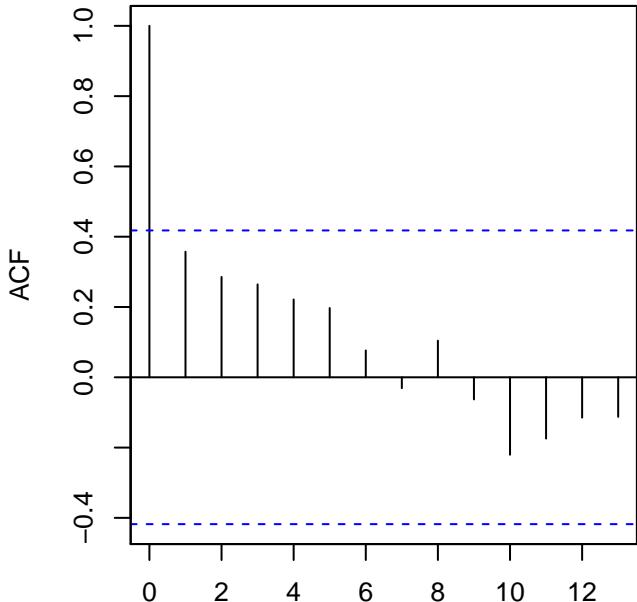
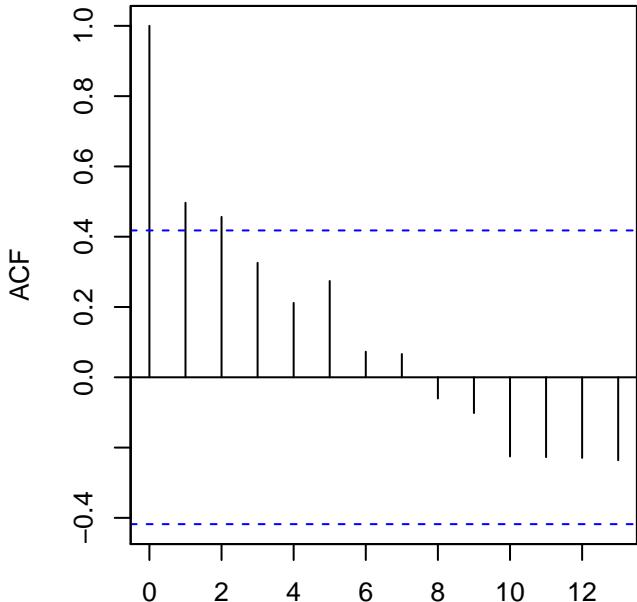
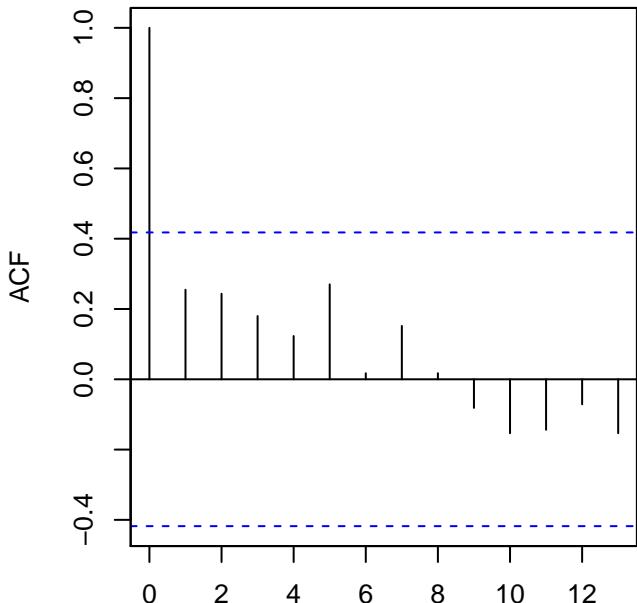
State X.SJI



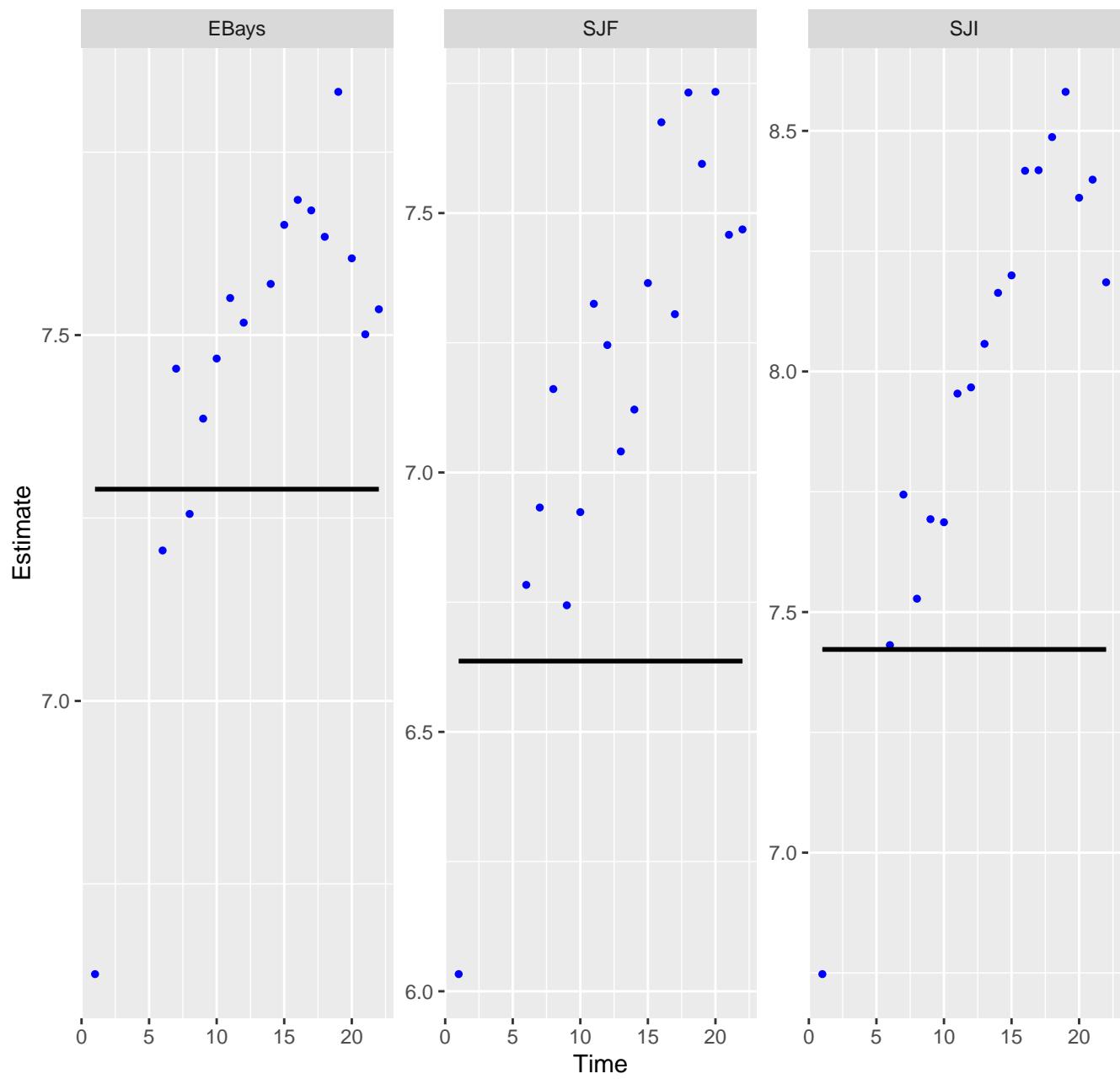
State X.EBays



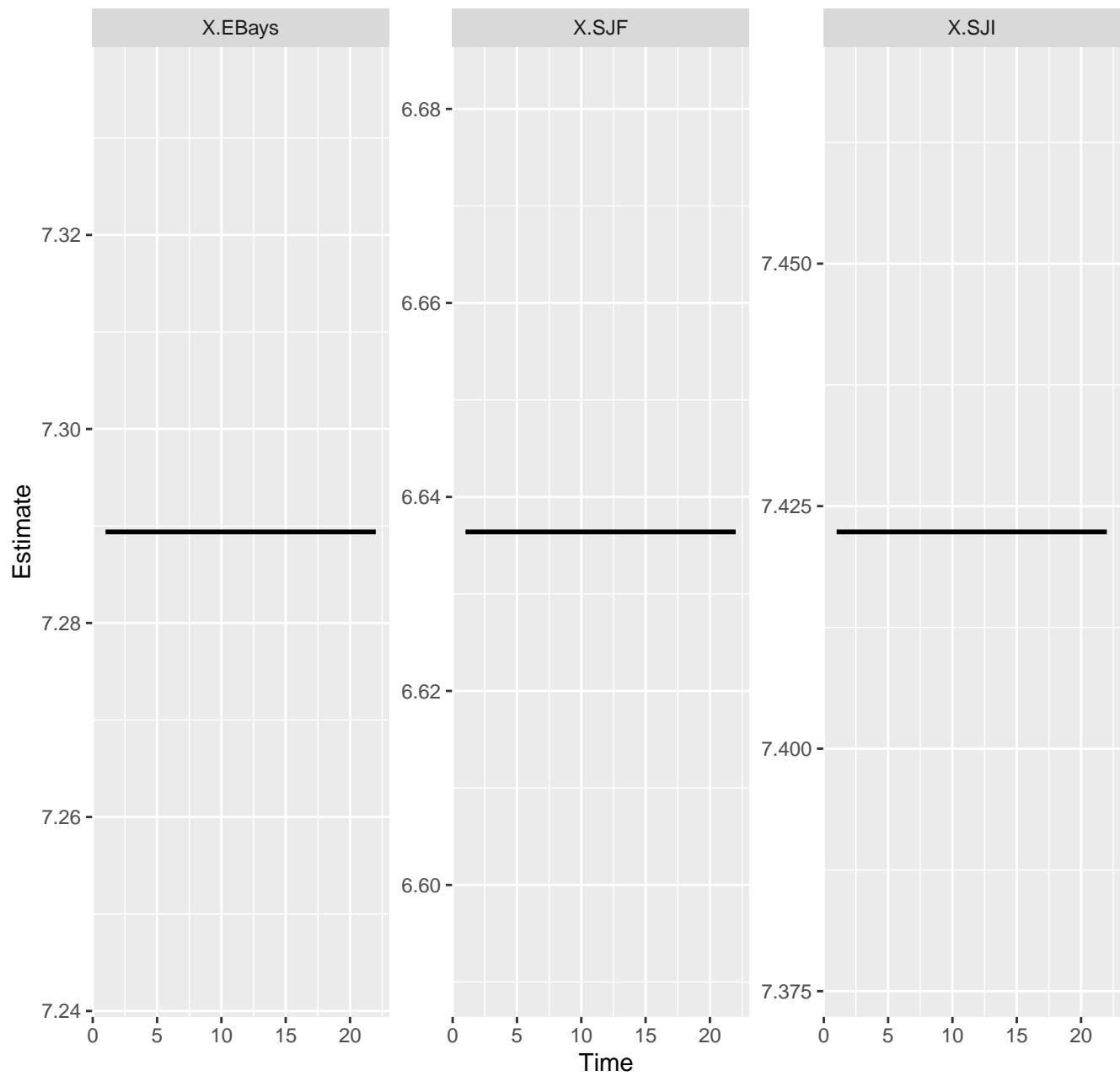
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

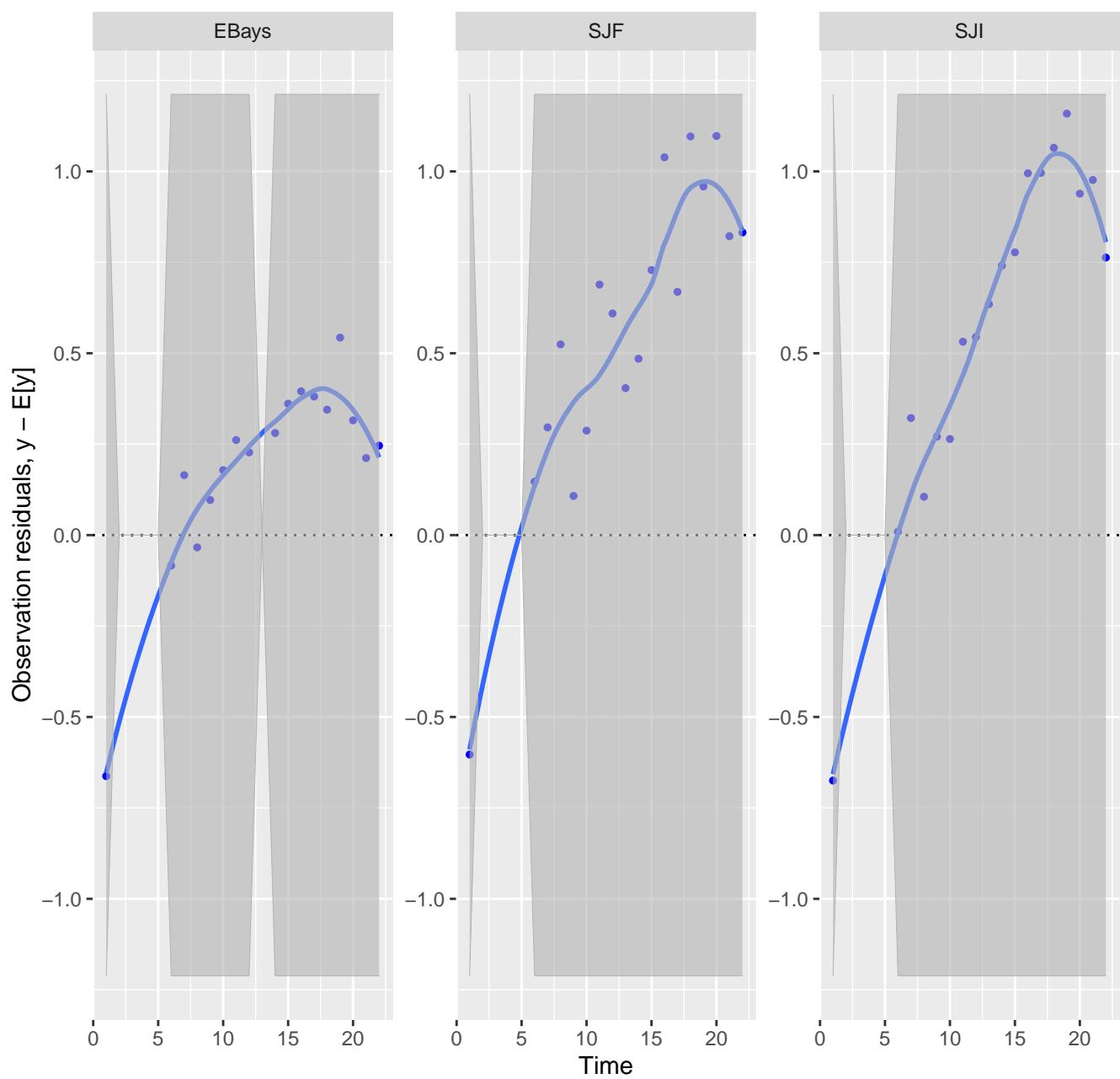
Model fitted Y + CI



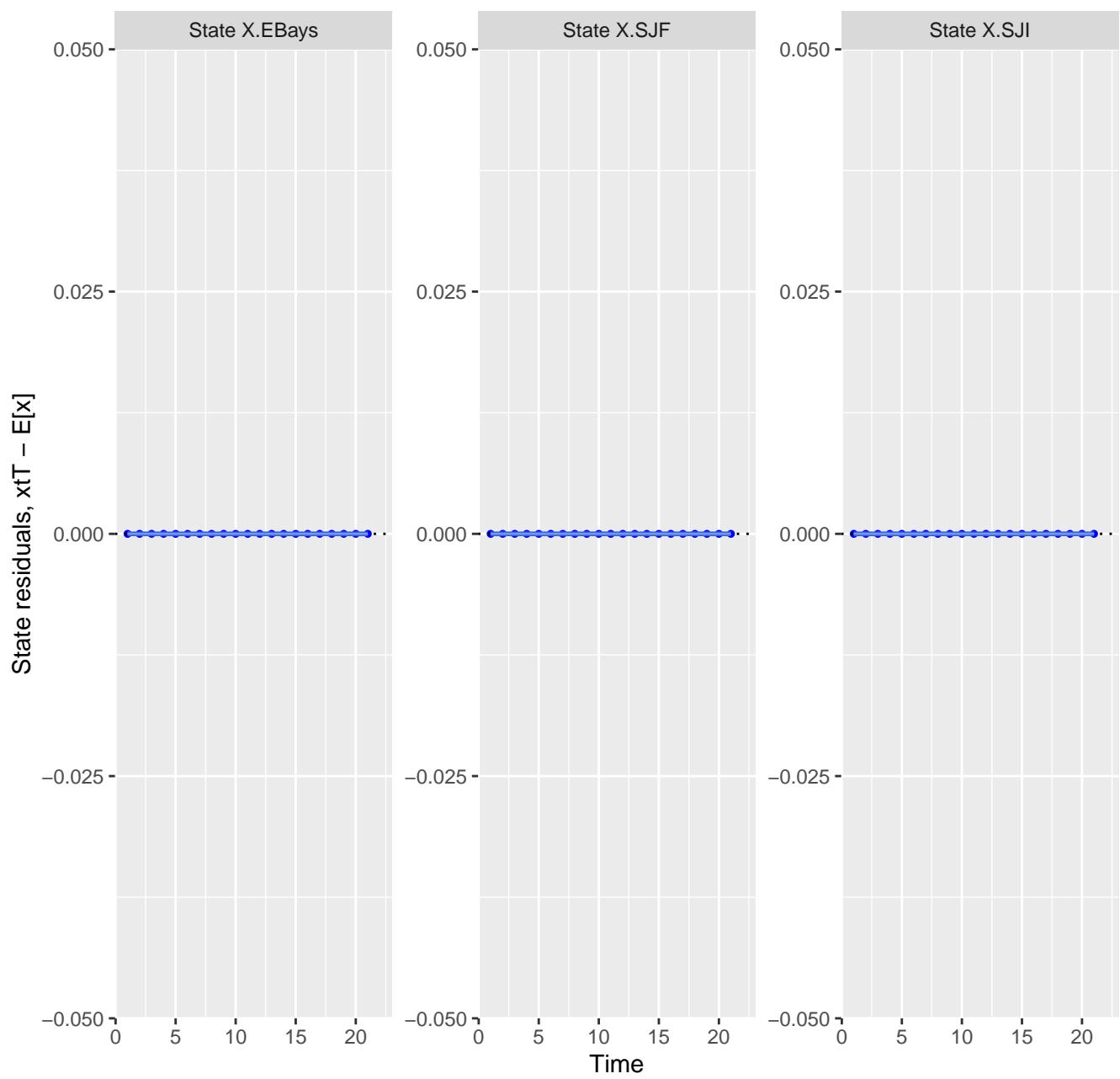
States



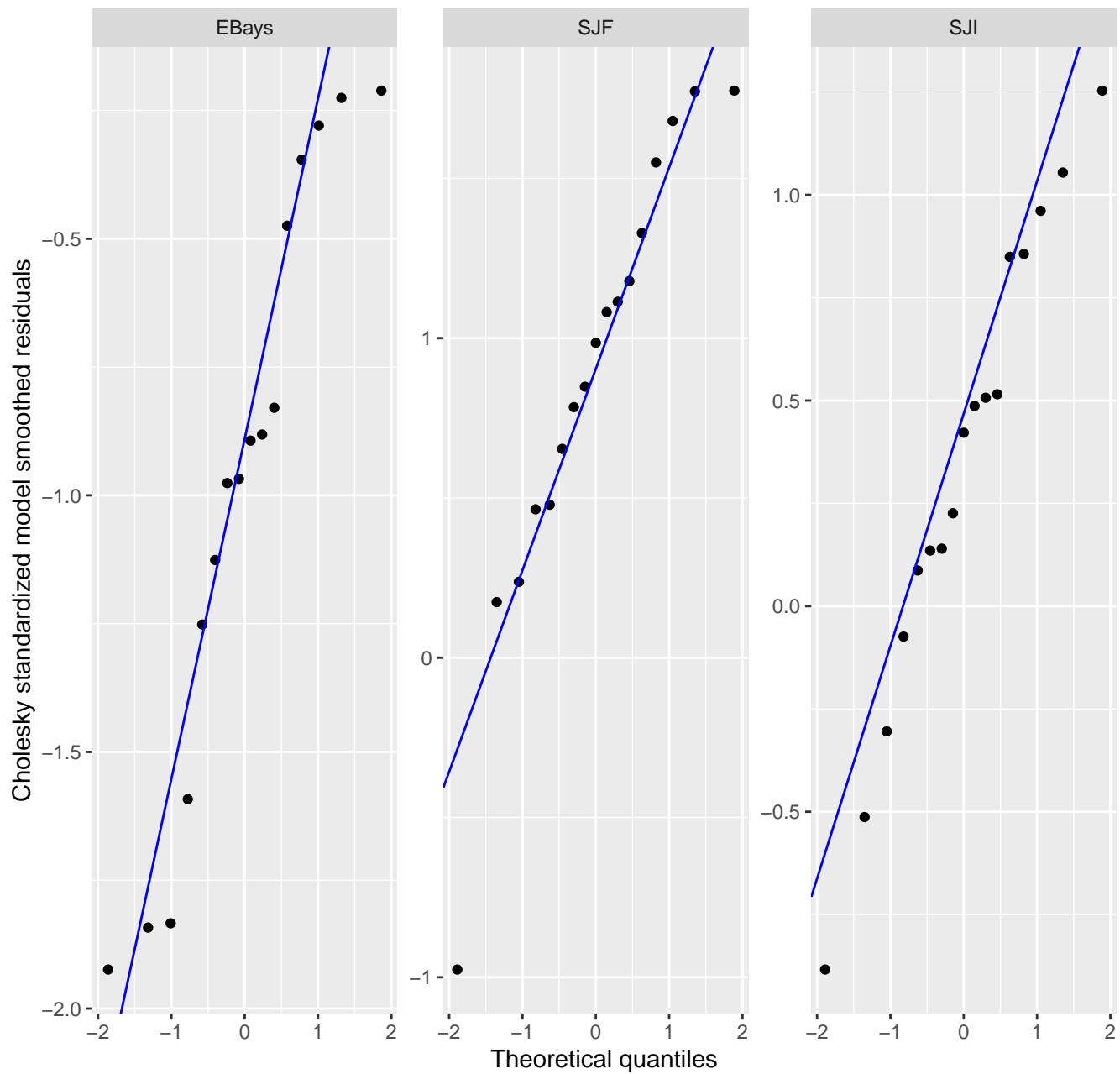
Model residuals



State residuals

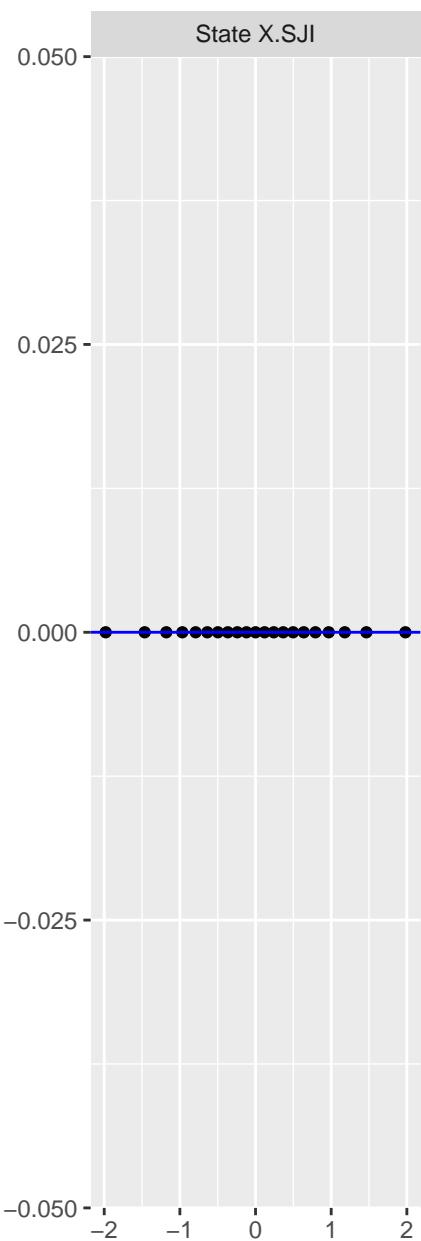
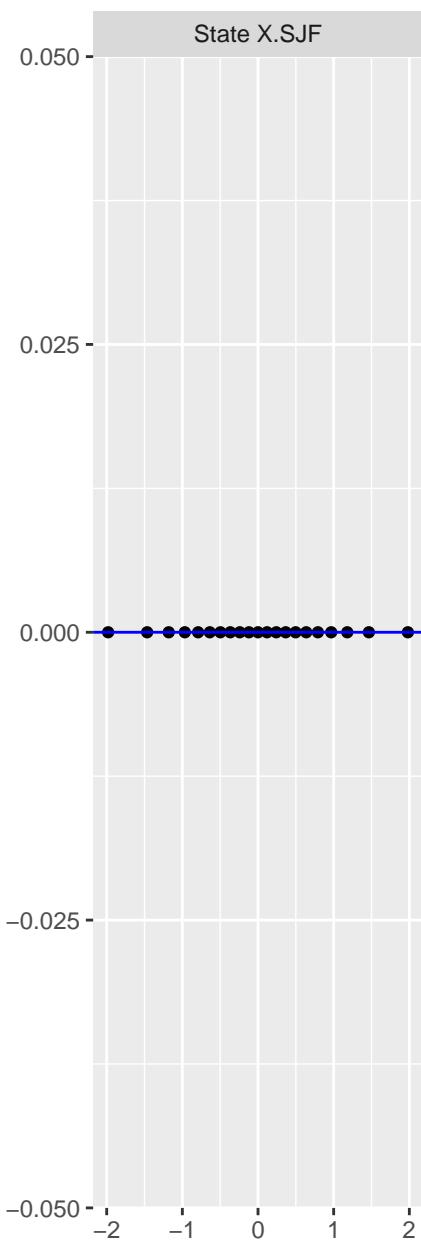
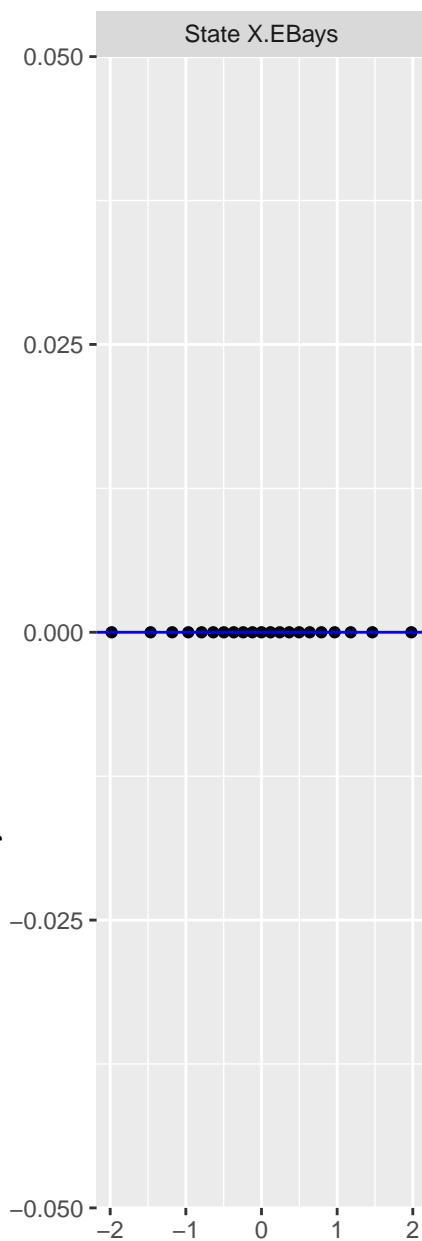


Model residuals normality test

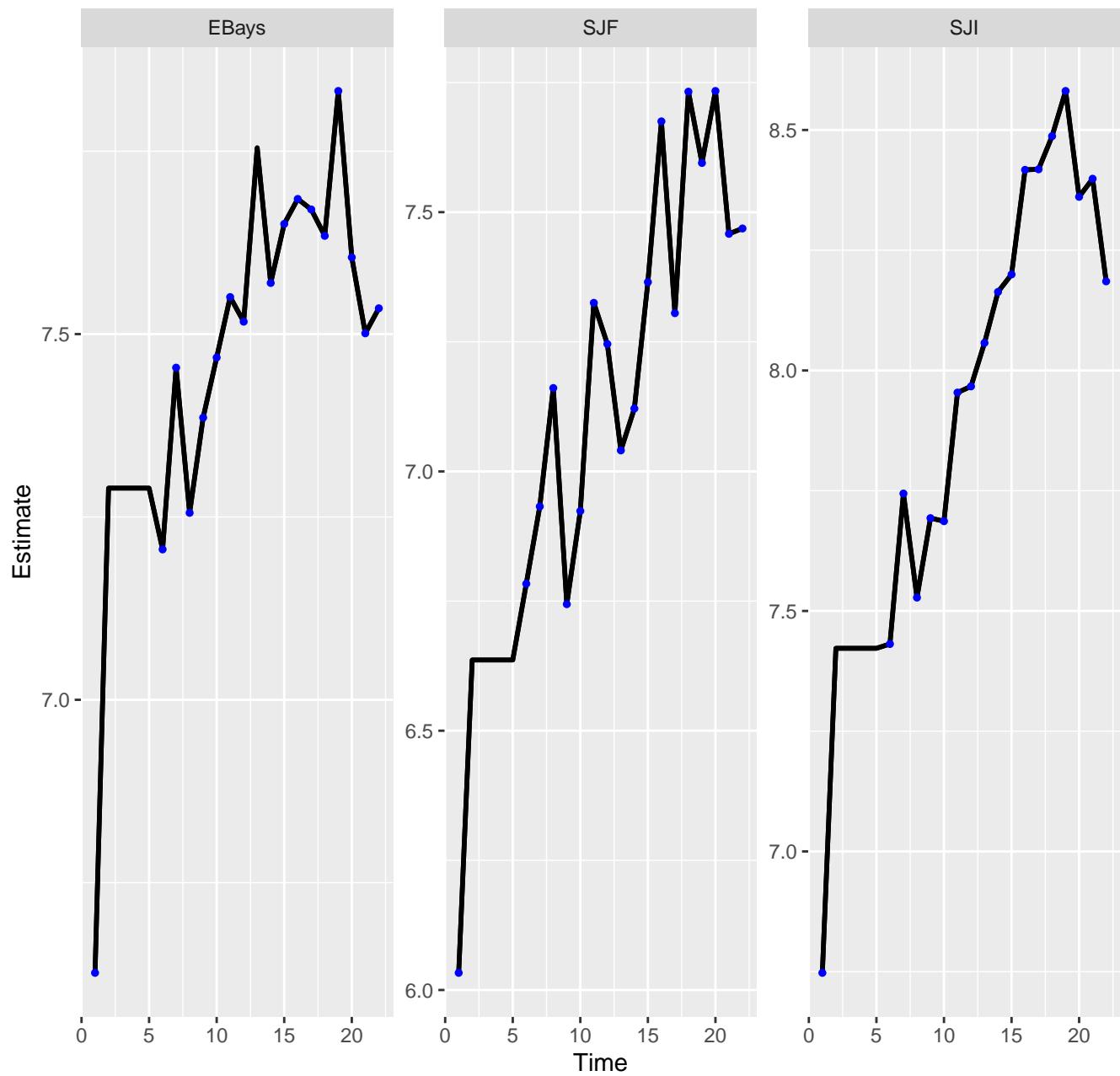


State residuals normality test

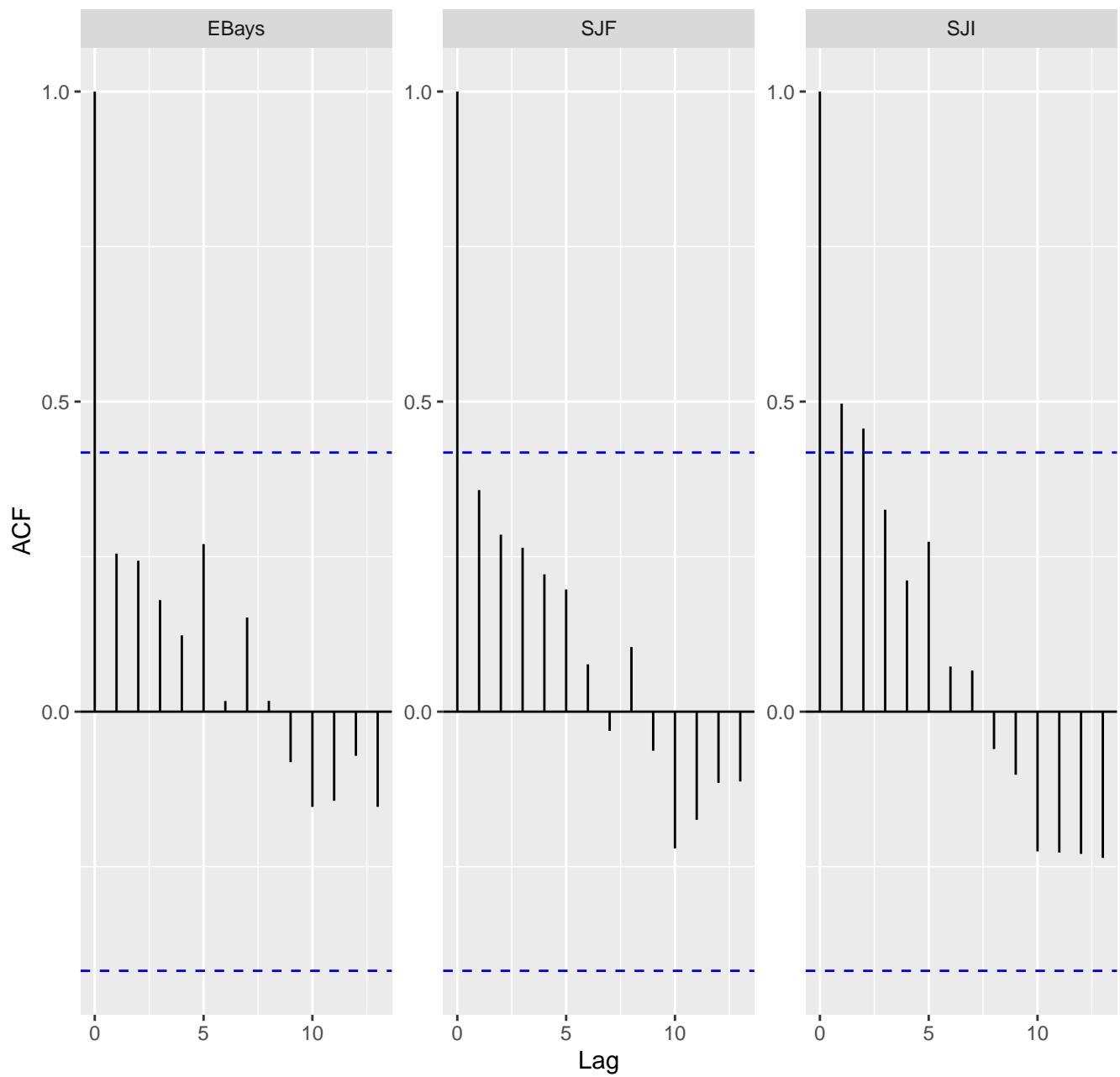
Cholesky standardized state smoothed residuals

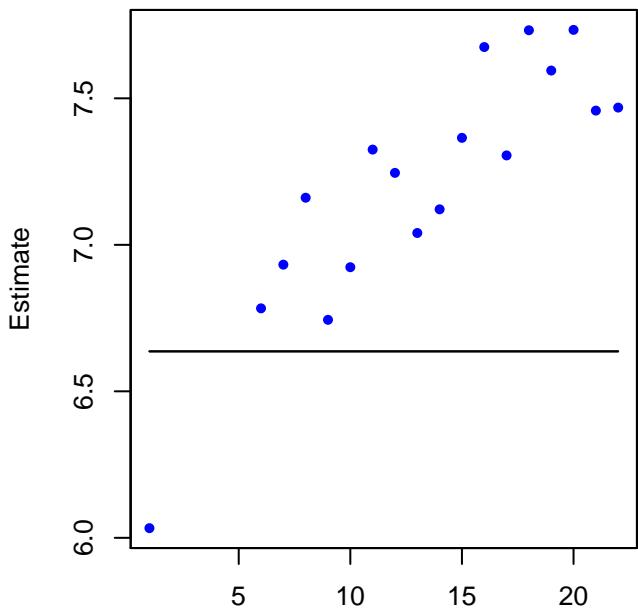
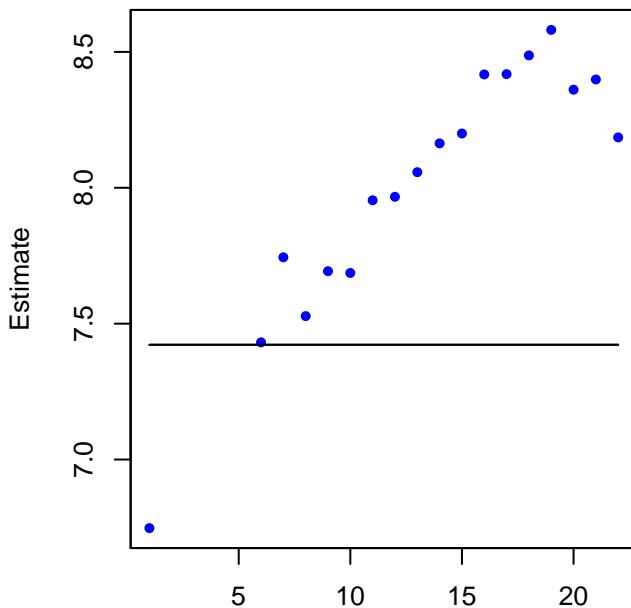
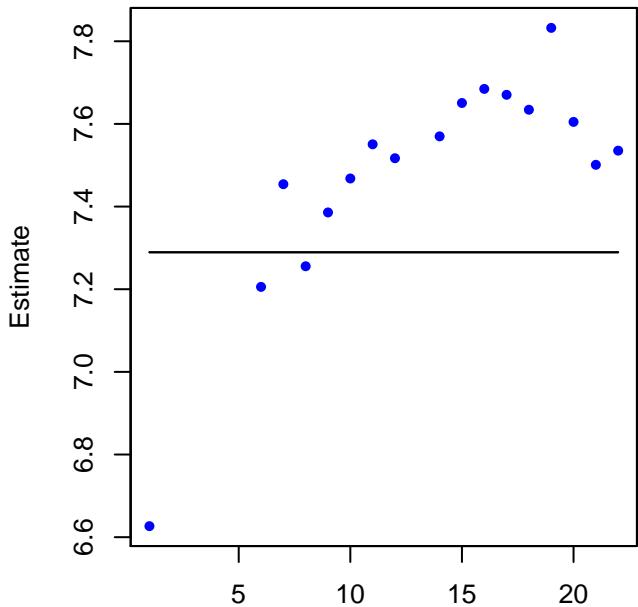


Expected value of Y conditioned on data

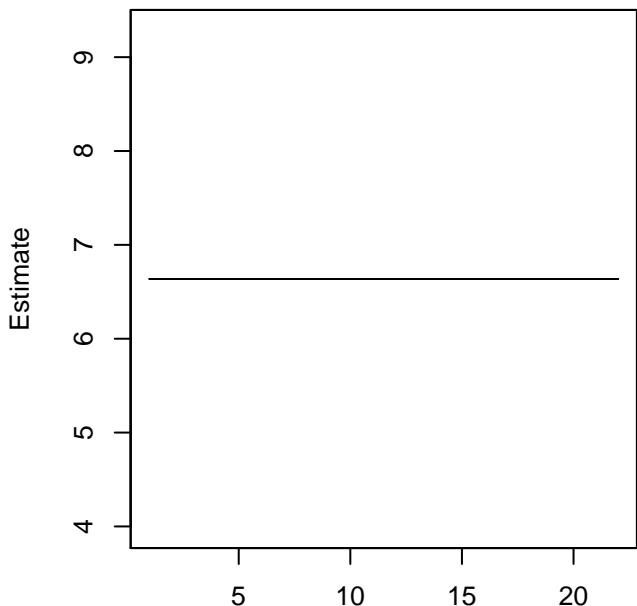


Model innovations residuals ACF

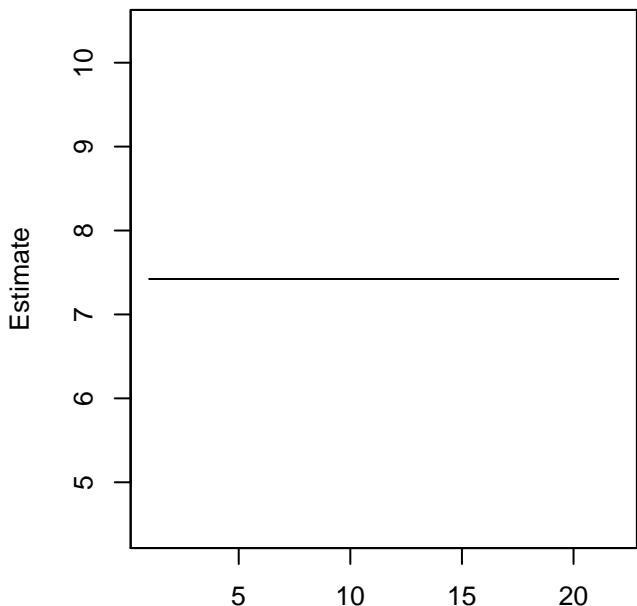


SJF + CI**SJI + CI****EBays + CI**

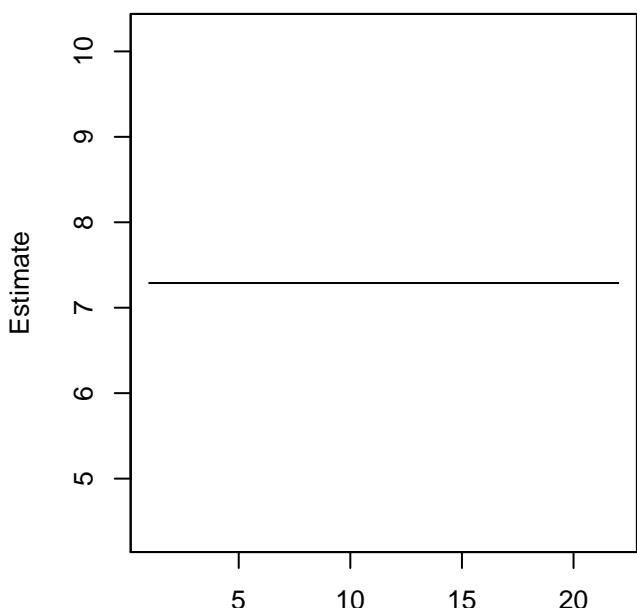
State X.SJF



State X.SJI

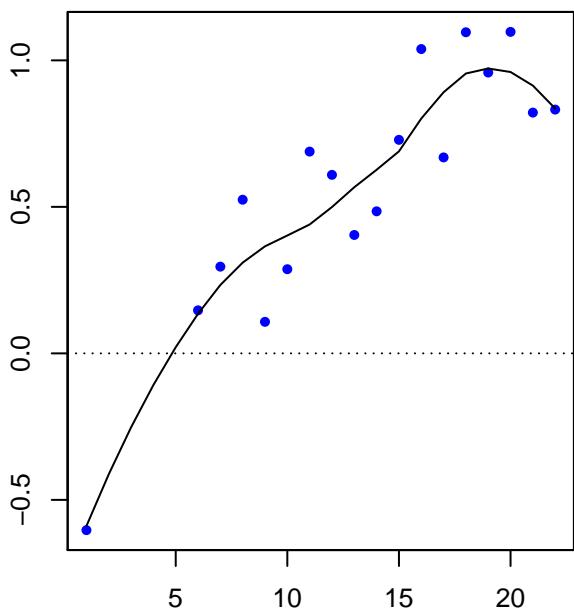


State X.EBays

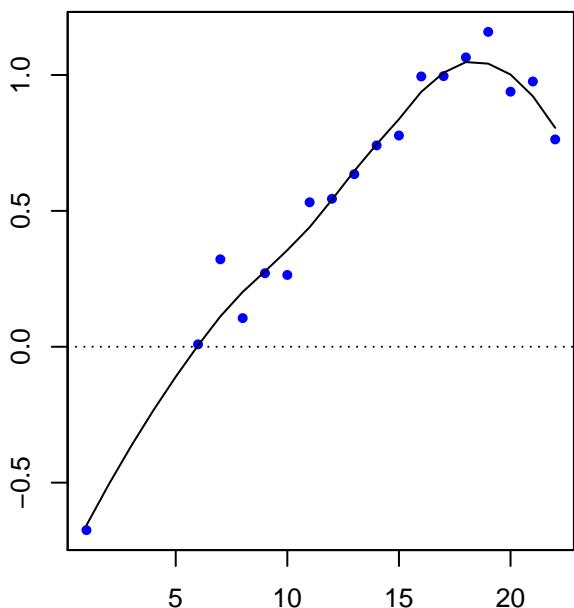


Observation residuals, $y - E[y]$

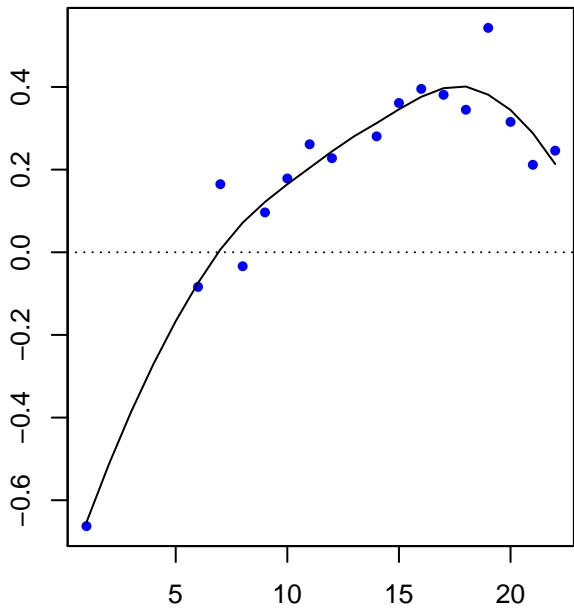
SJF



SJI

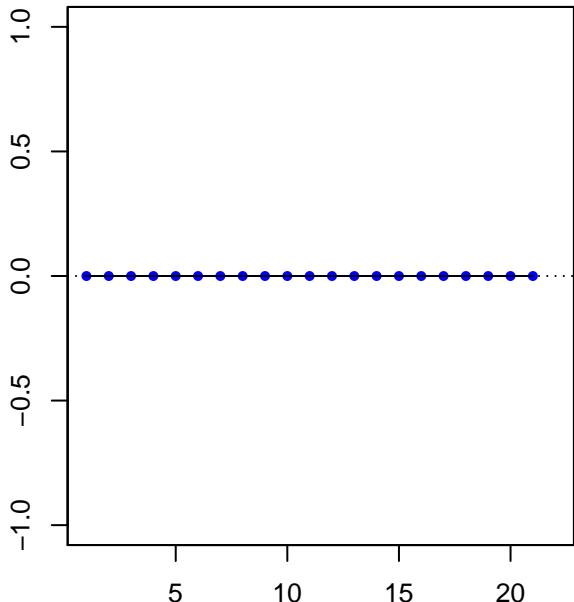


EBays

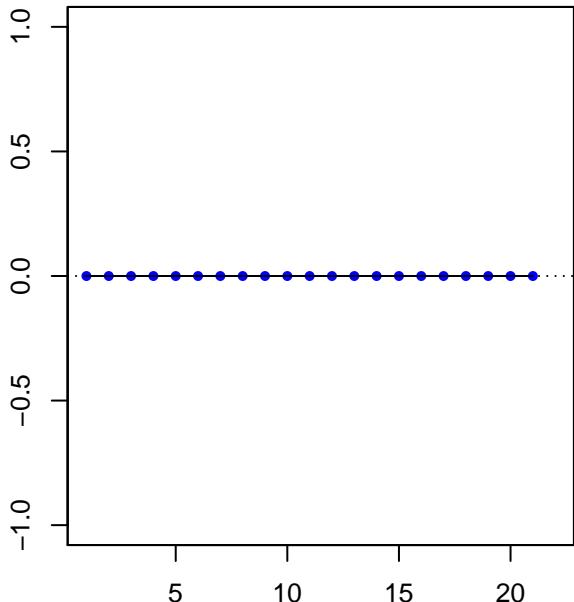


State residuals, $x_{tT} - E[x]$

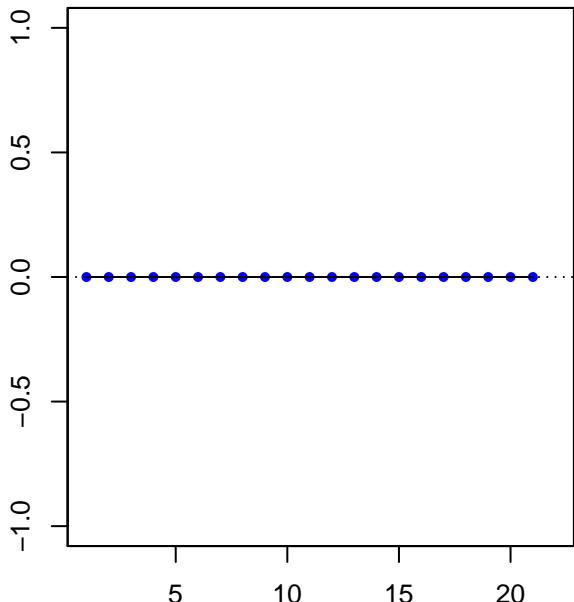
State X.SJF

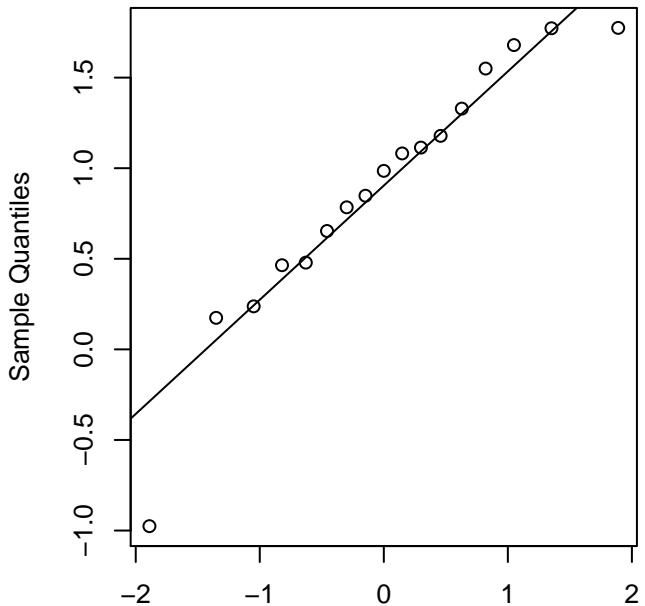
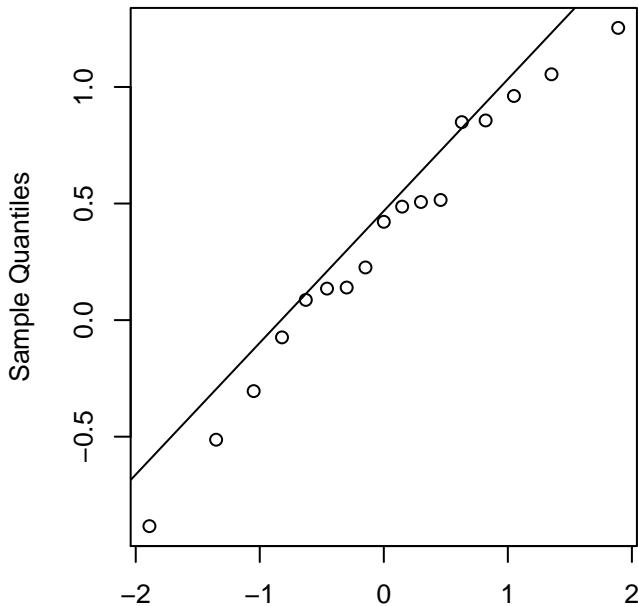
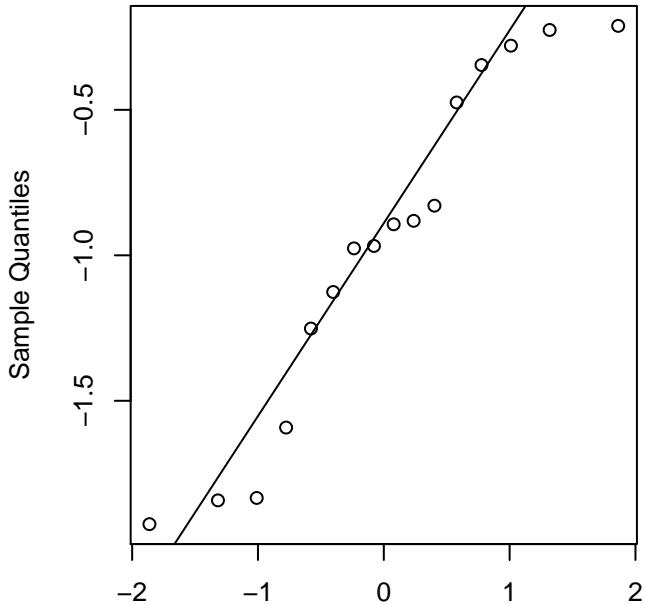


State X.SJI

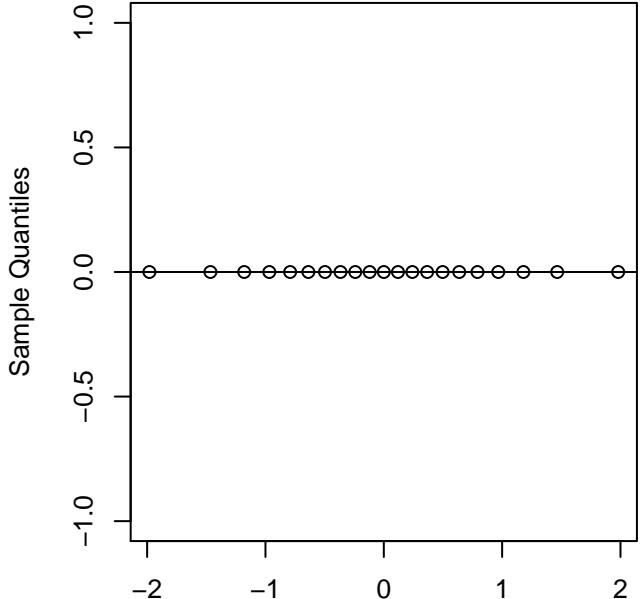


State X.EBays

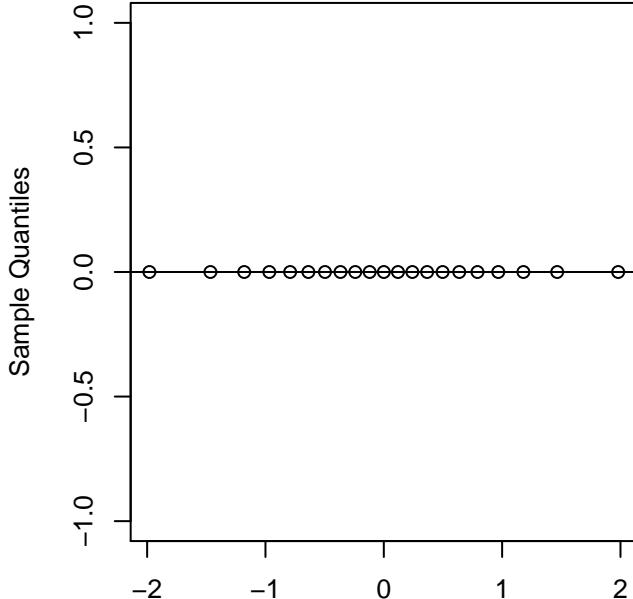


SJF**SJI****EBays**

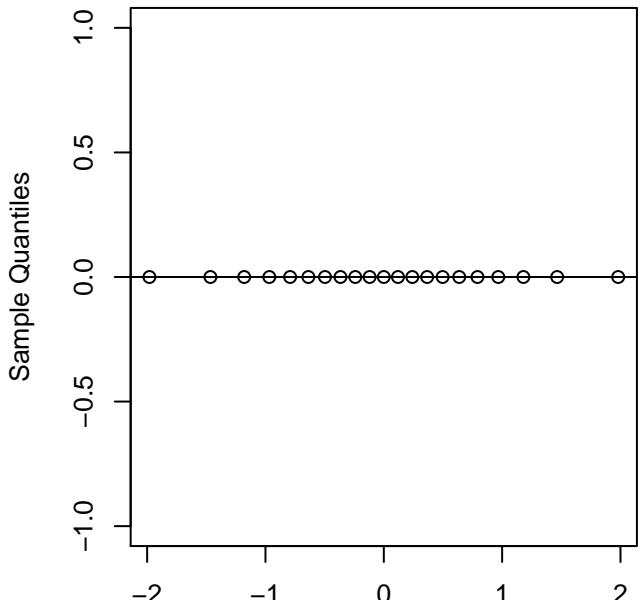
State X.SJF

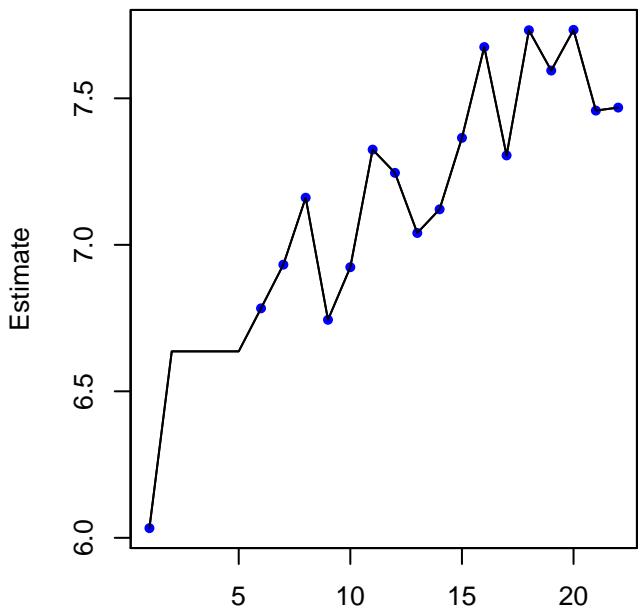
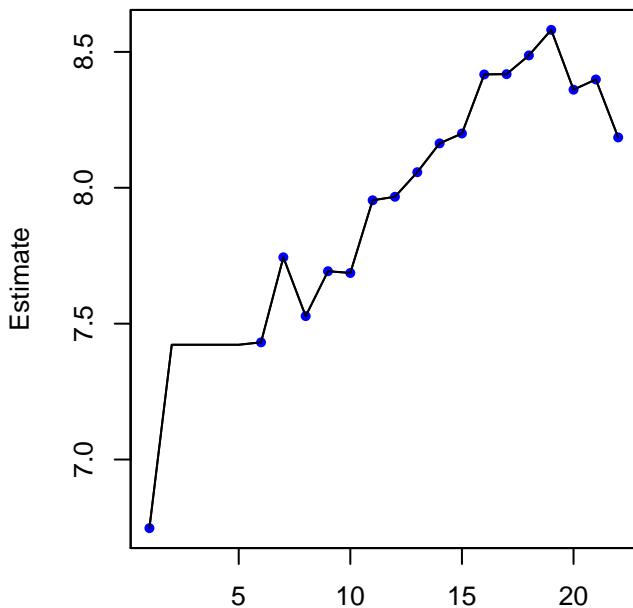
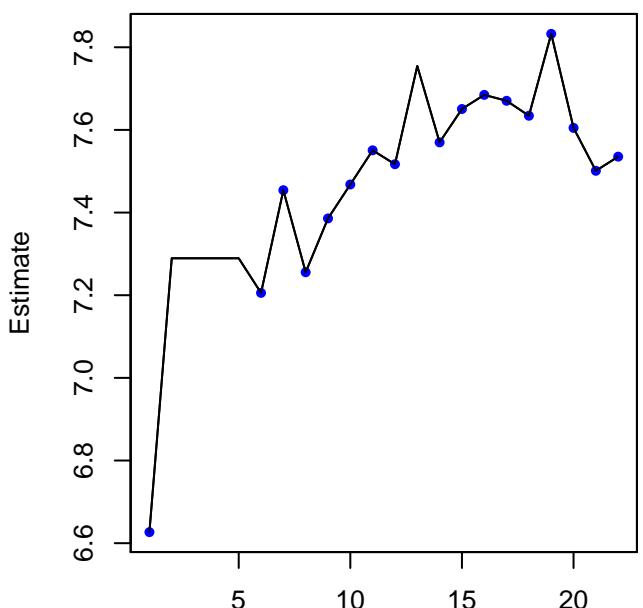


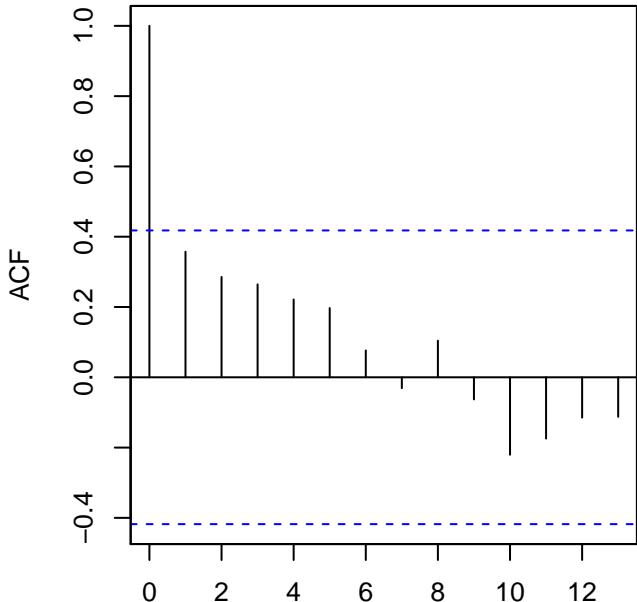
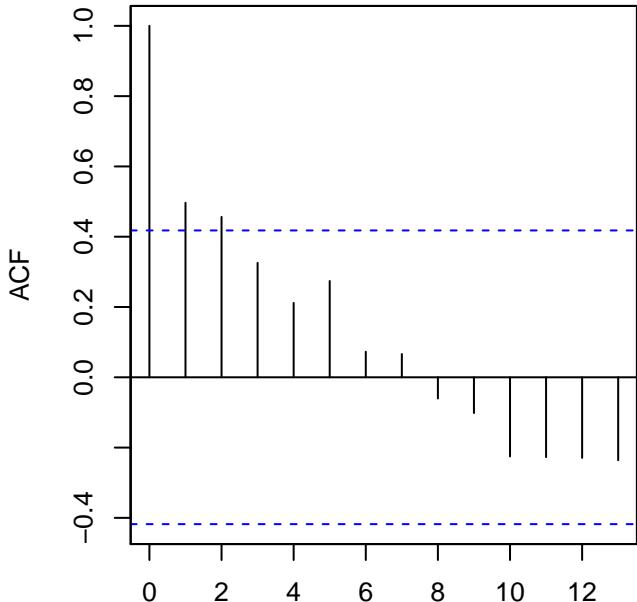
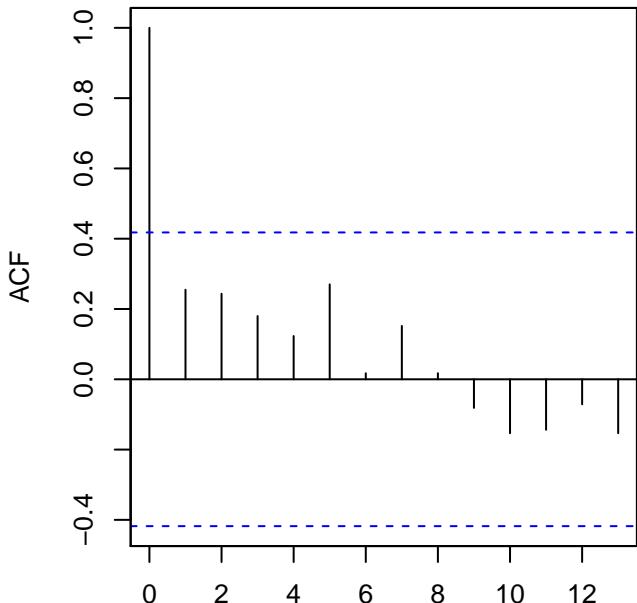
State X.SJI



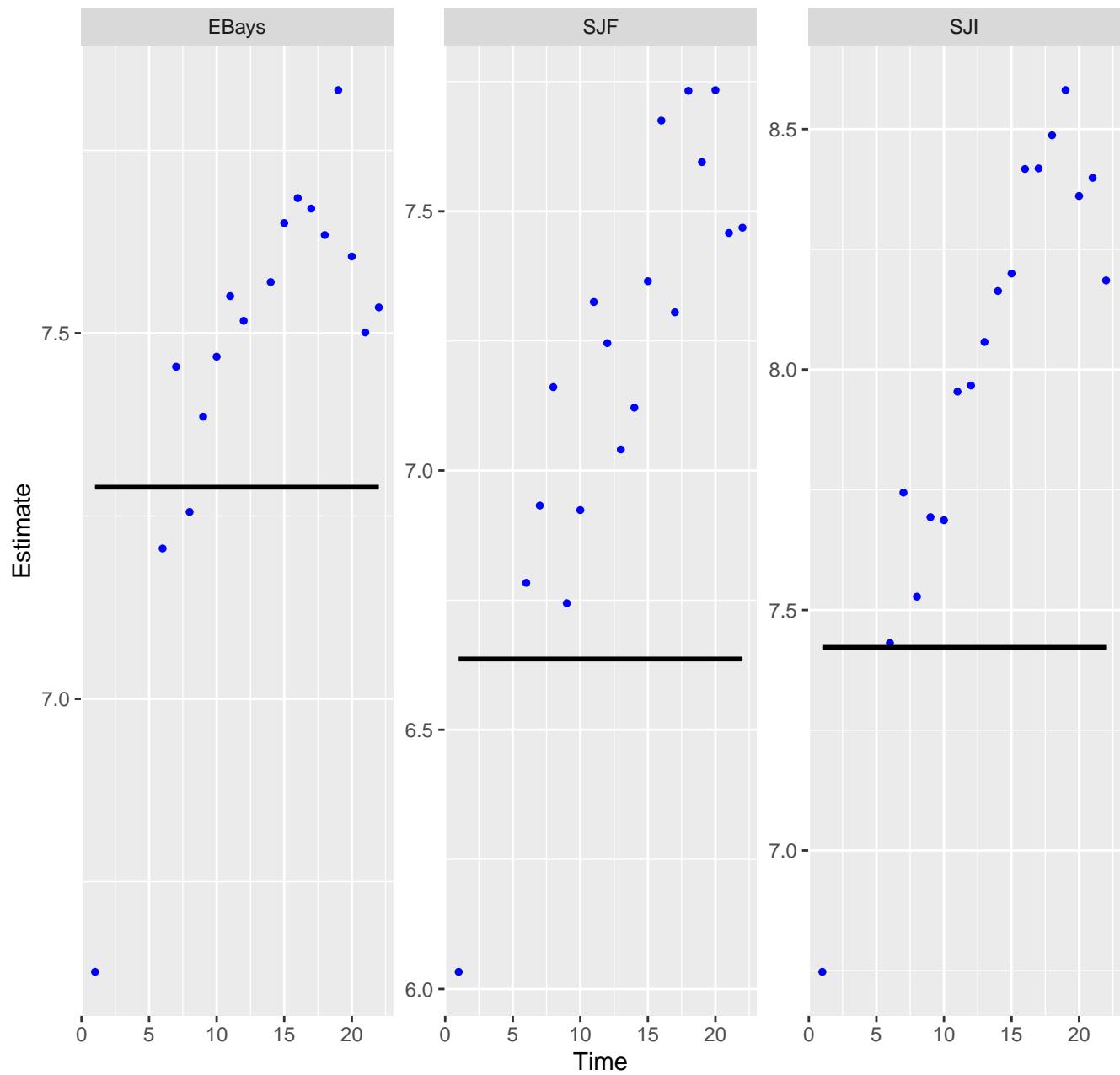
State X.EBays



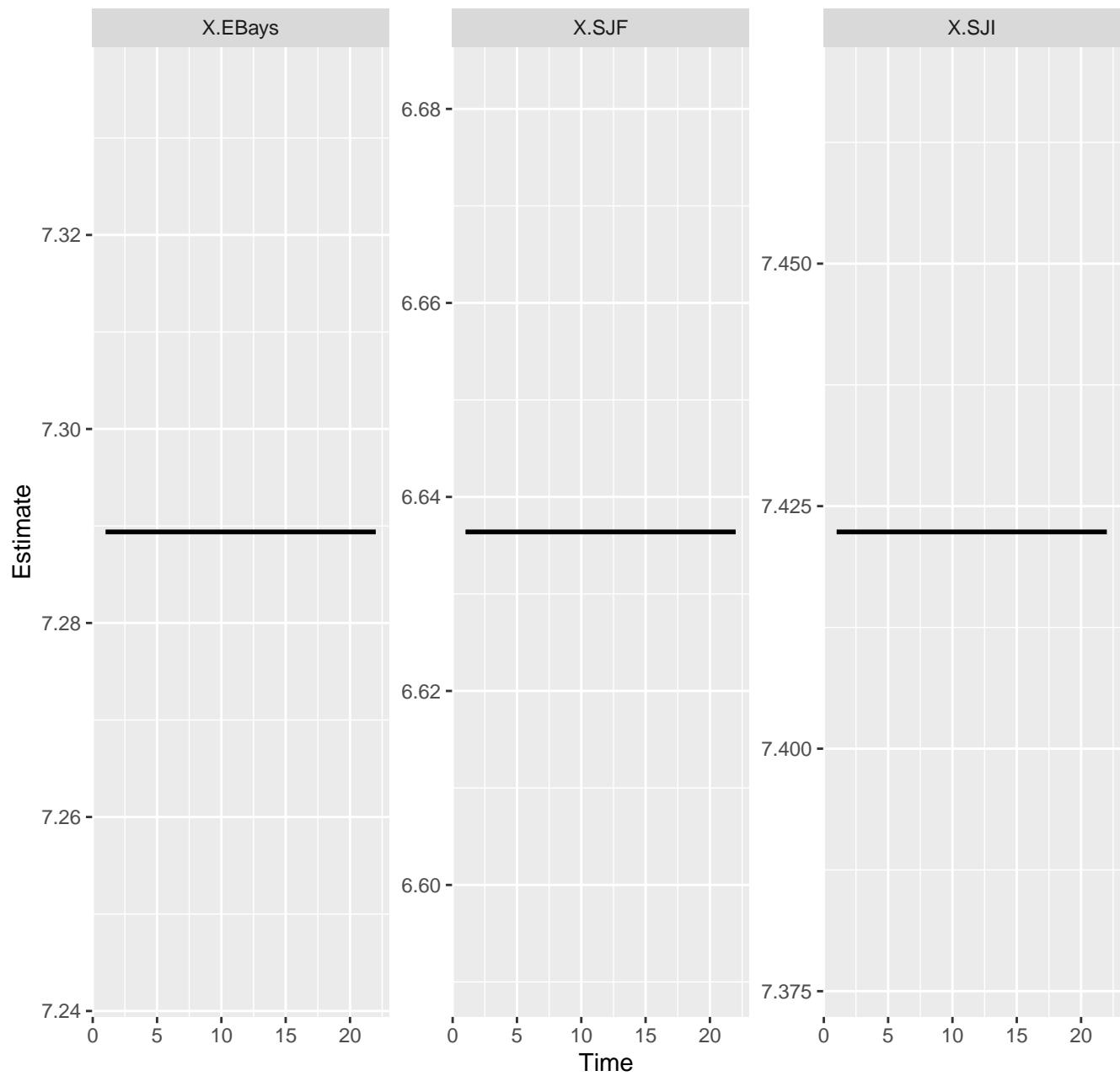
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

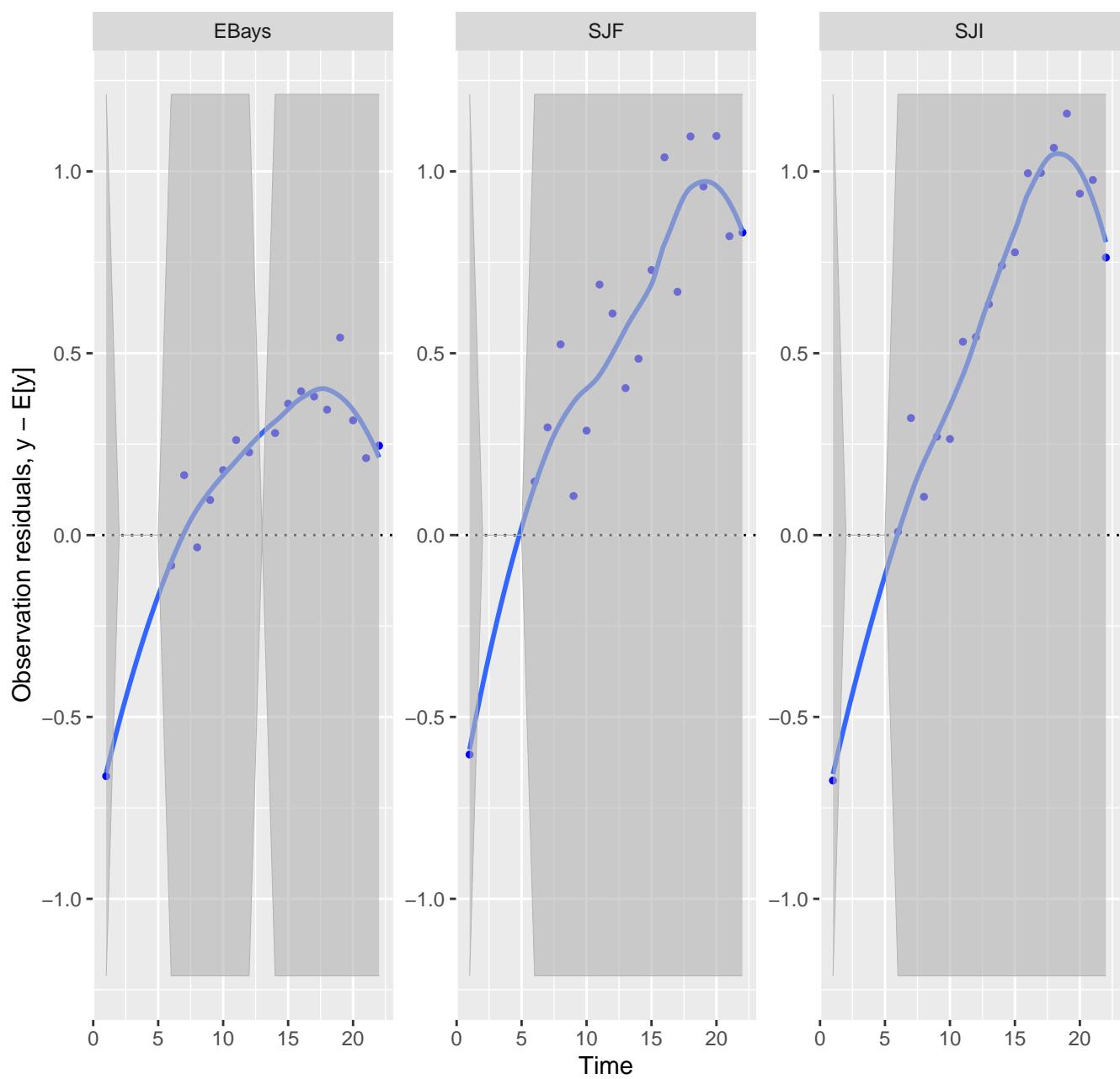
Model fitted Y + CI



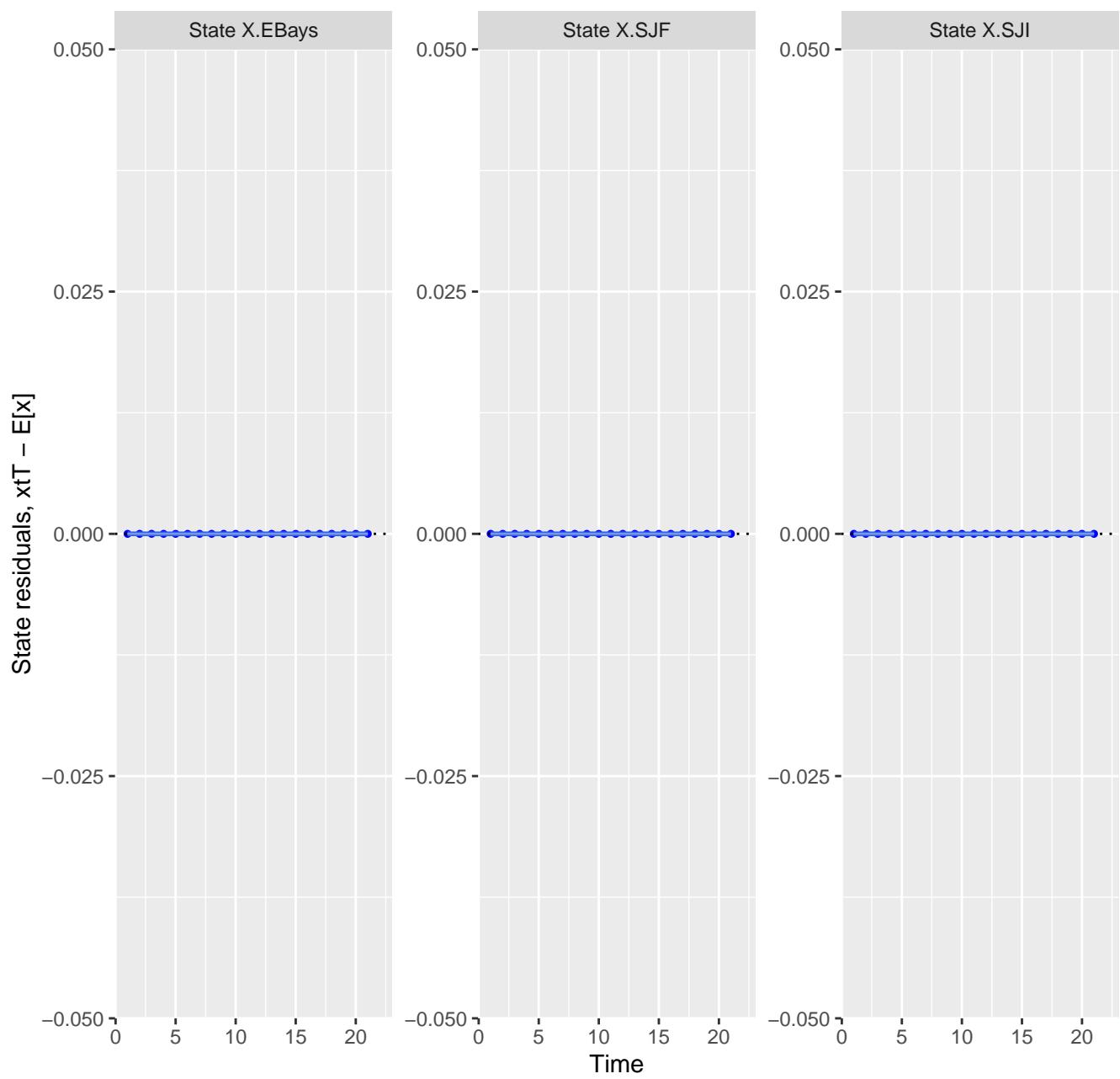
States



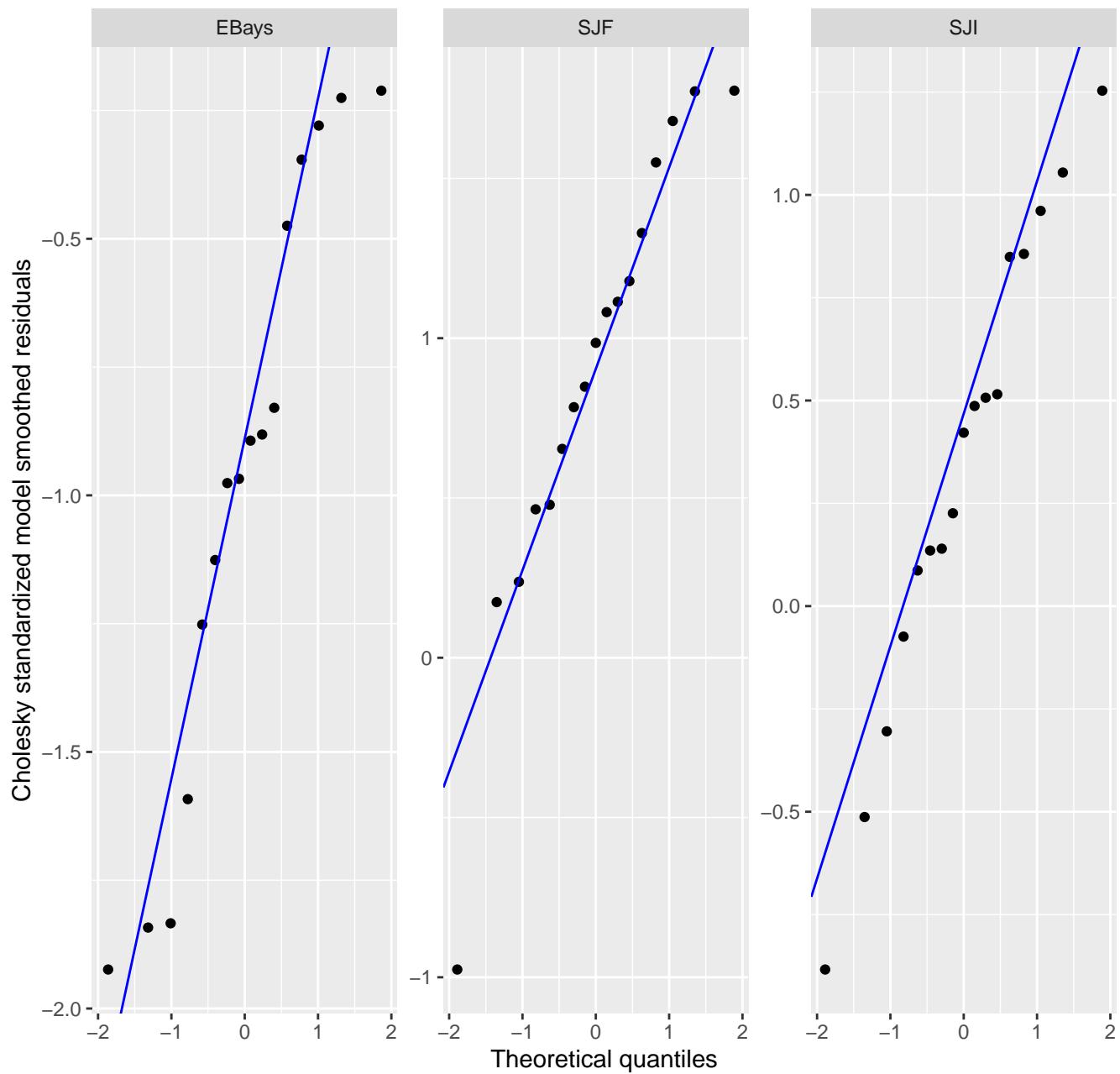
Model residuals



State residuals

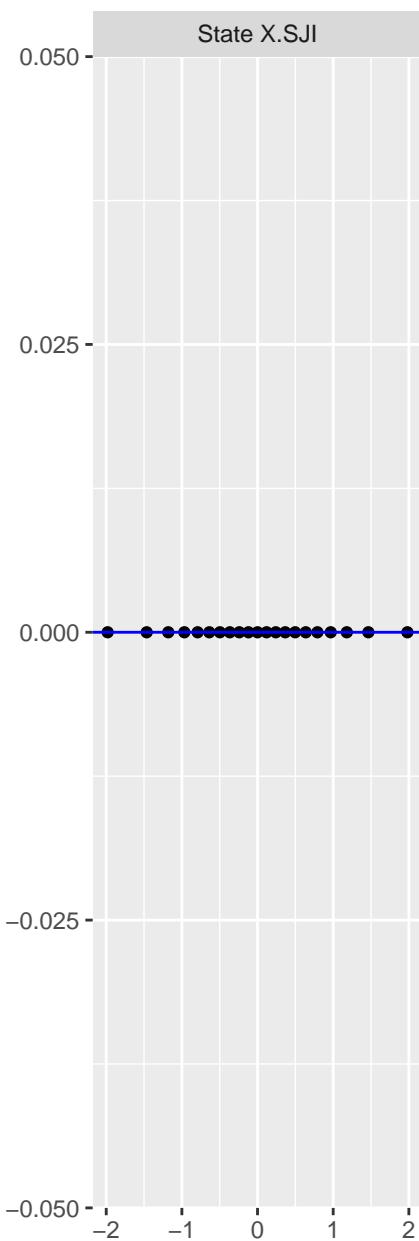
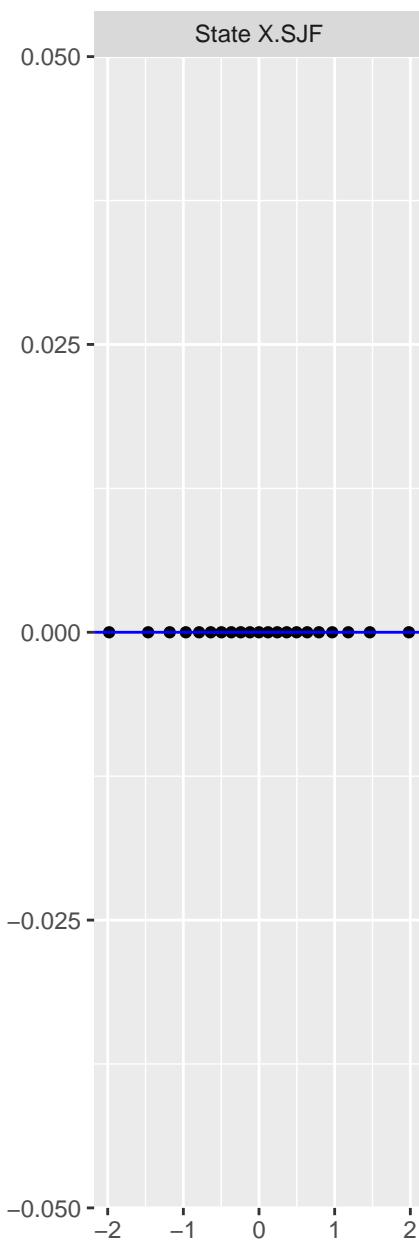
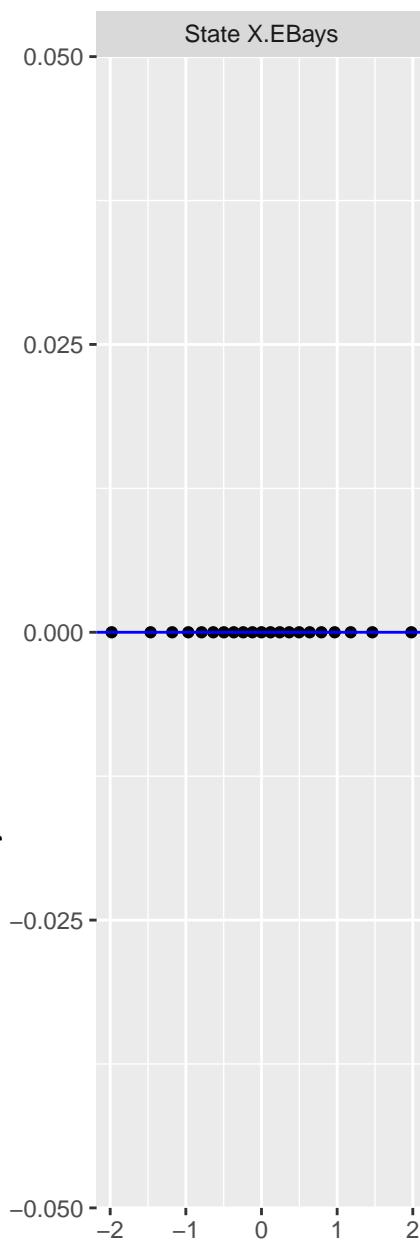


Model residuals normality test

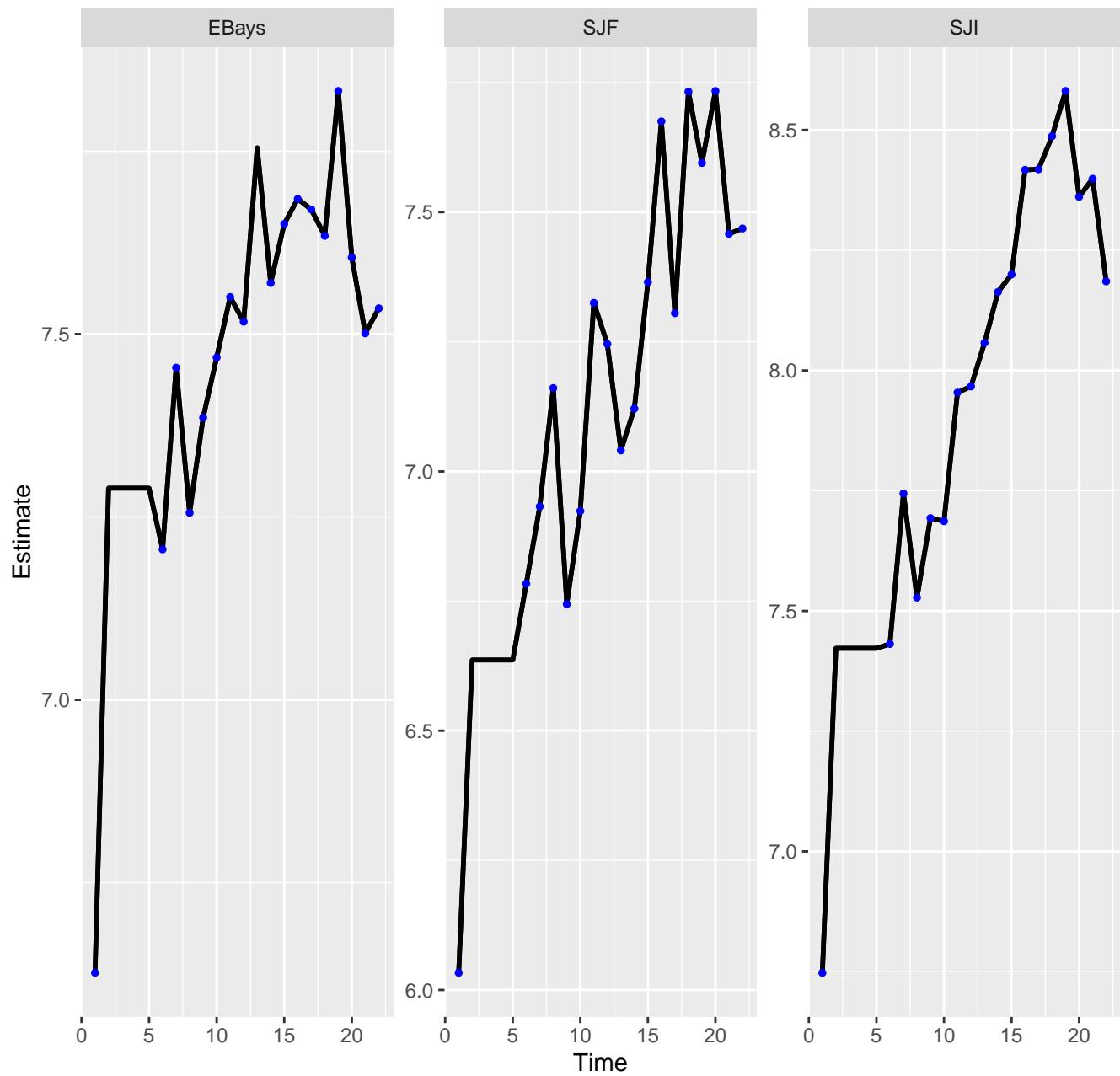


State residuals normality test

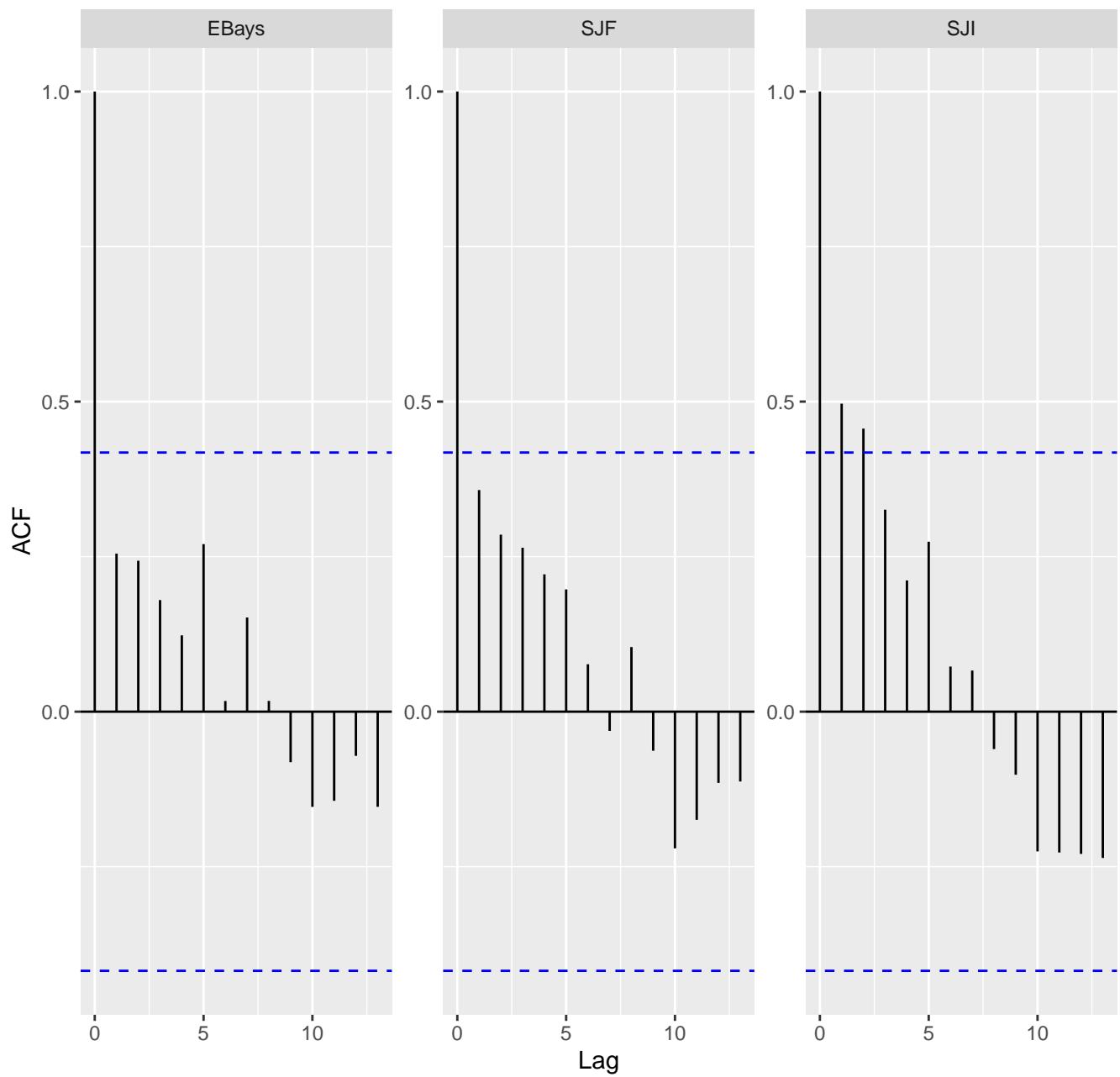
Cholesky standardized state smoothed residuals

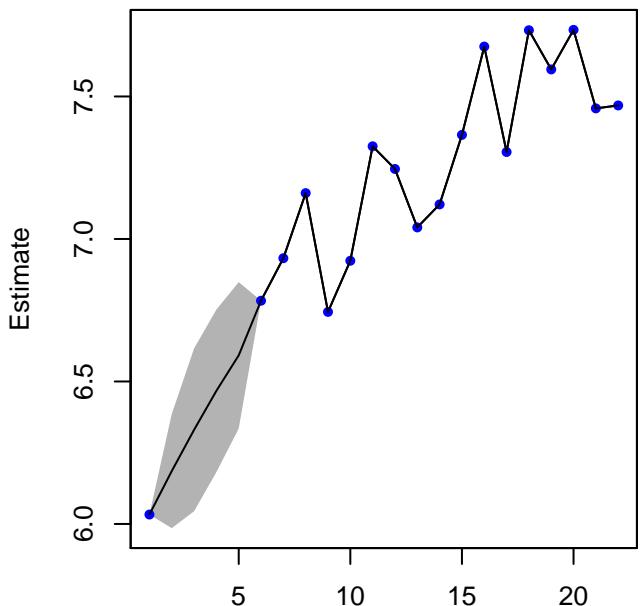
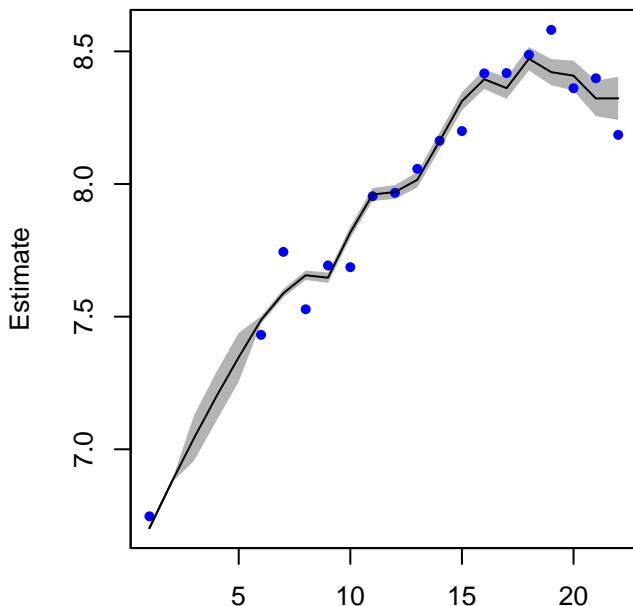
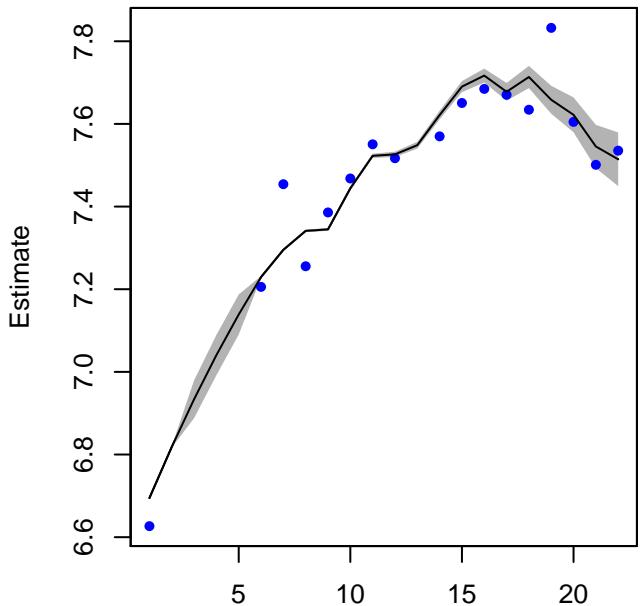


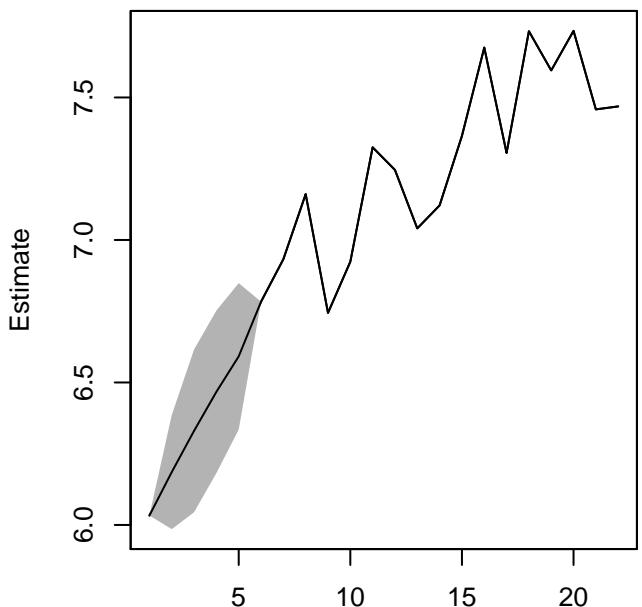
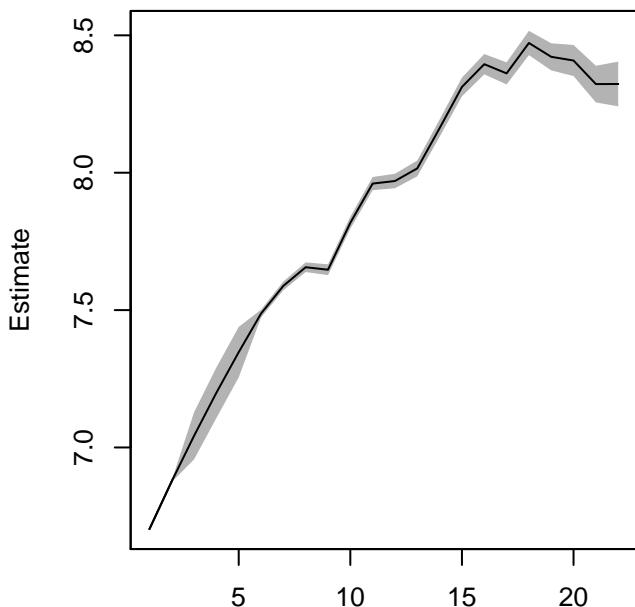
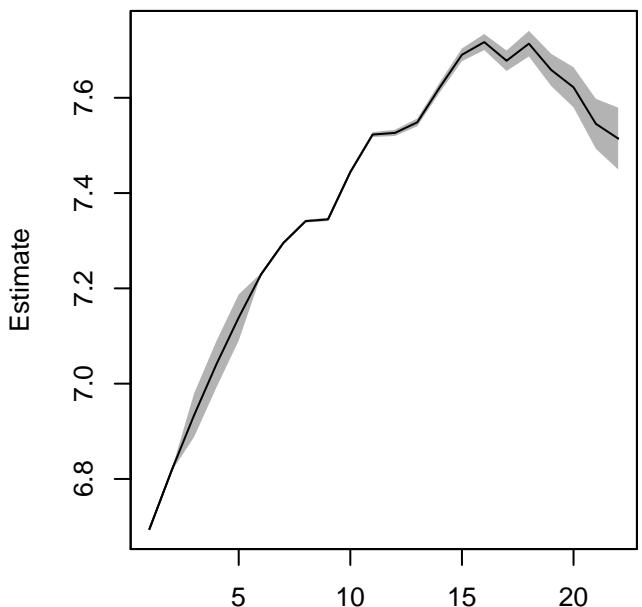
Expected value of Y conditioned on data



Model innovations residuals ACF

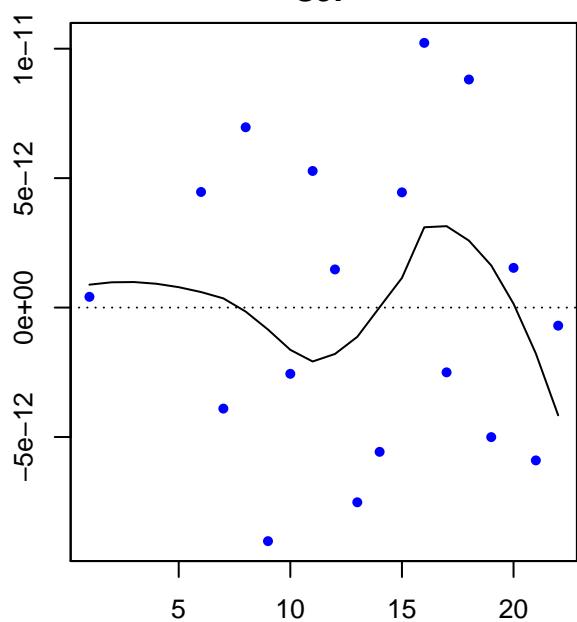


SJF + CI**SJI + CI****EBays + CI**

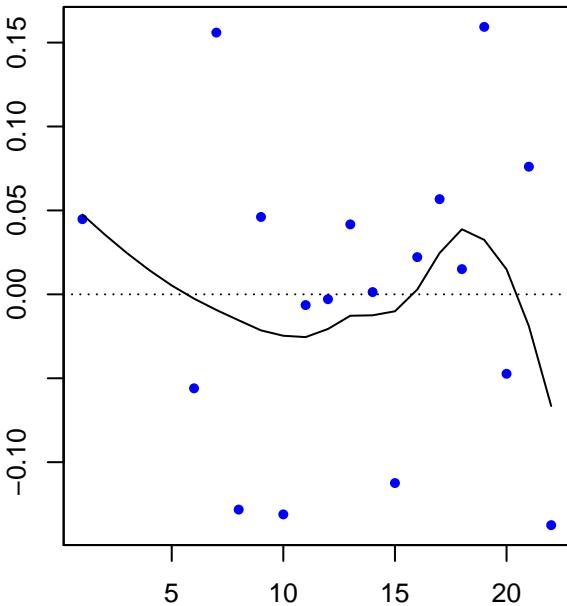
State X.SJF**State X.SJI****State X.EBays**

Observation residuals, $y - E[y]$

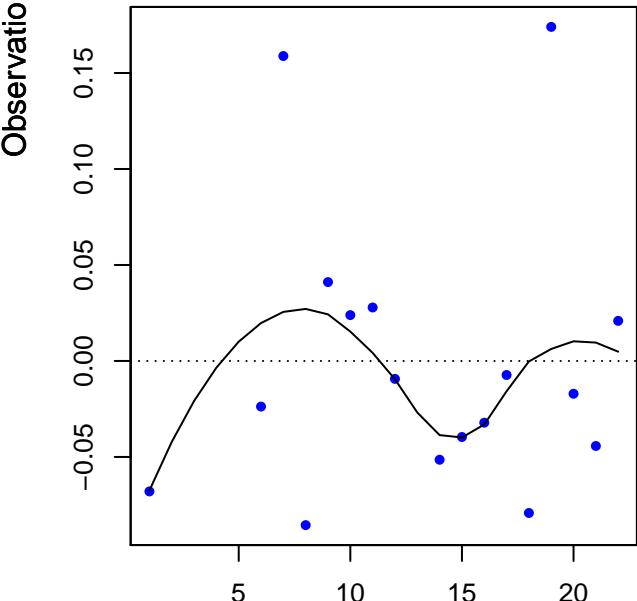
SJF

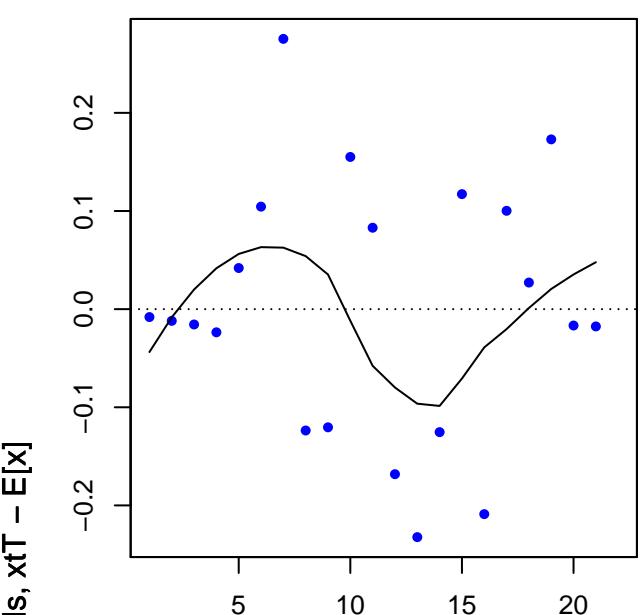
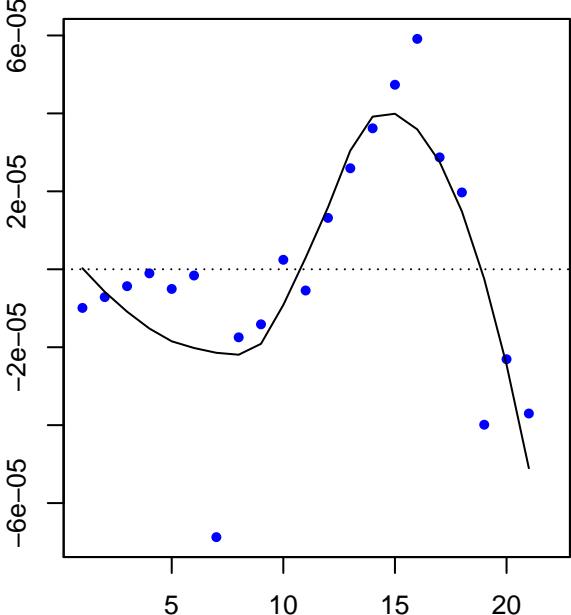
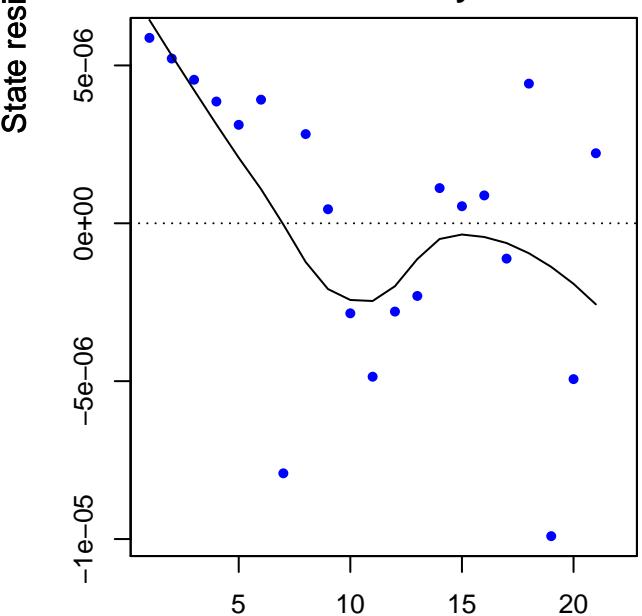


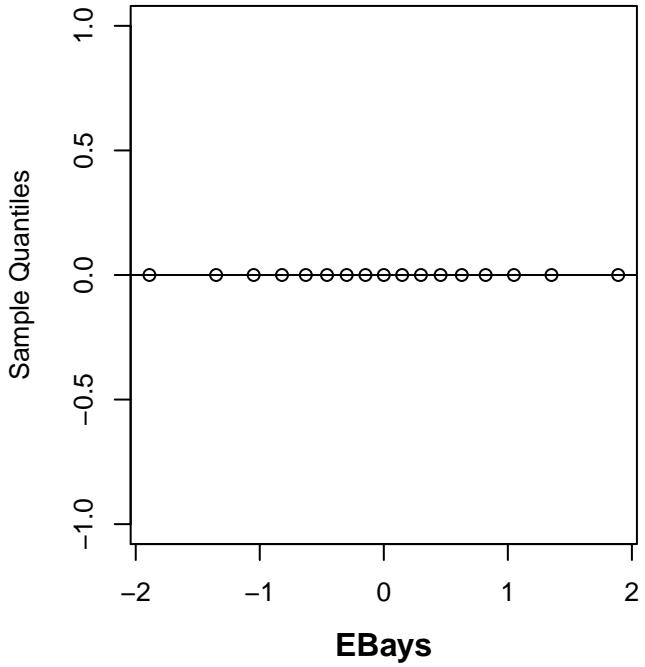
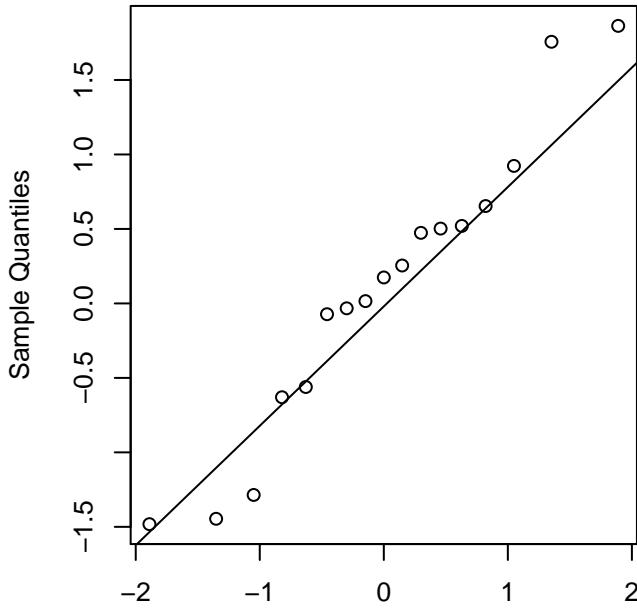
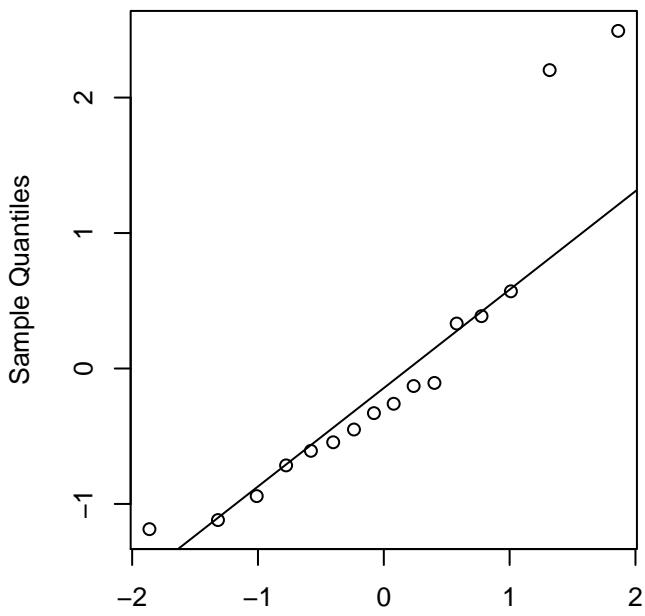
SJI

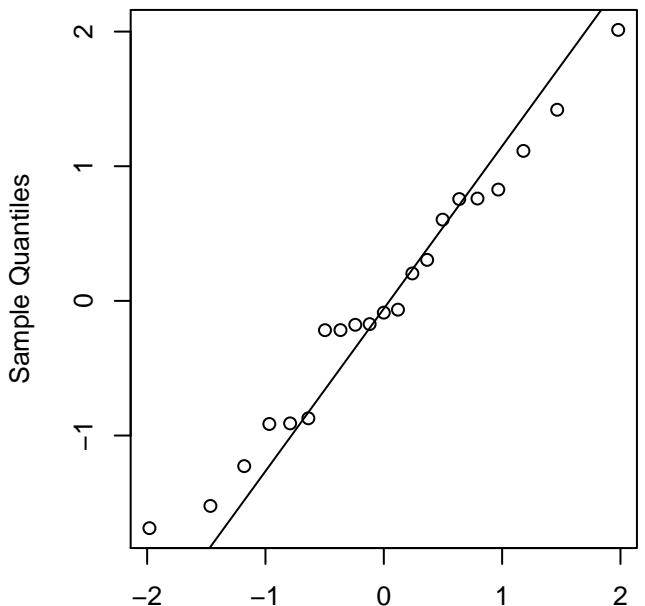
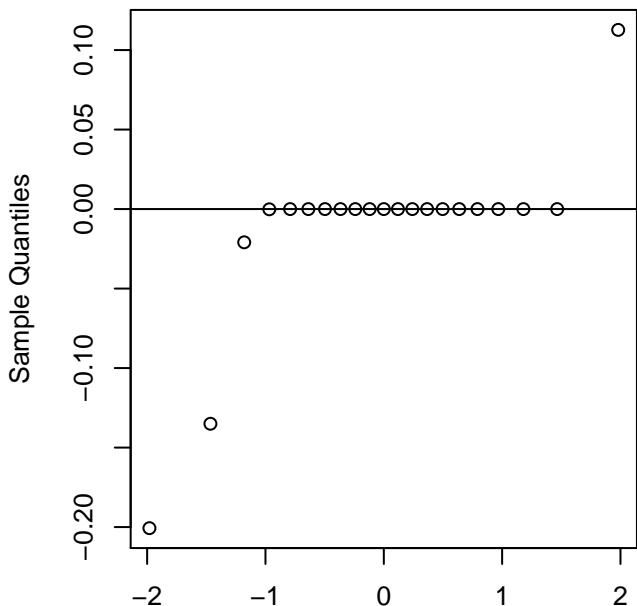
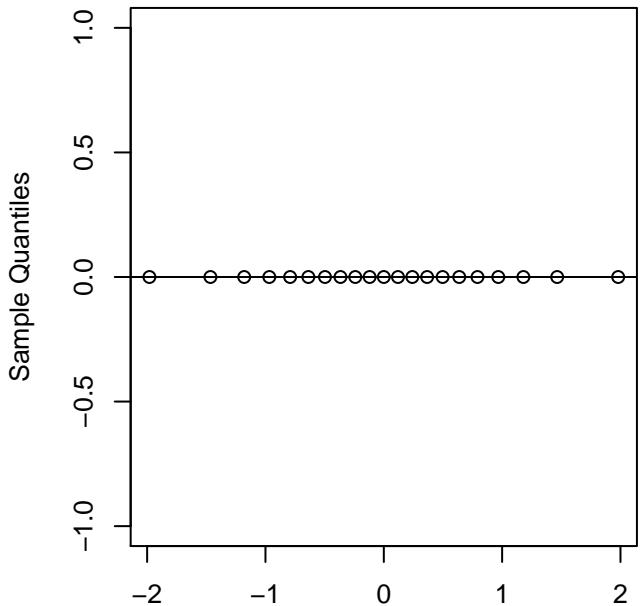


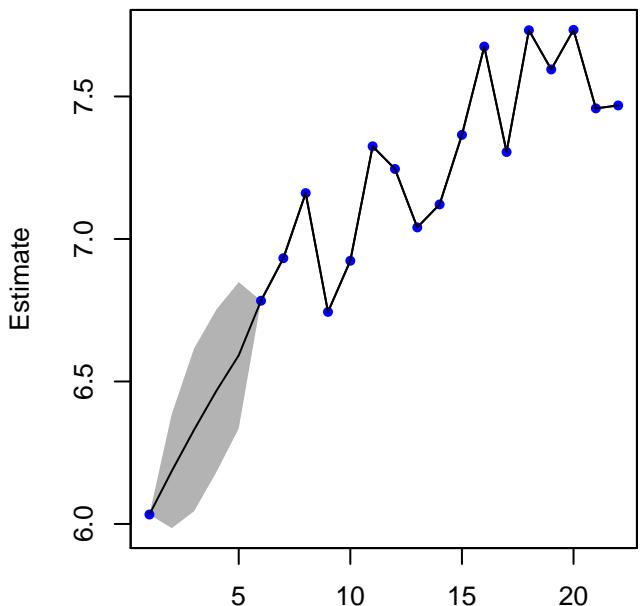
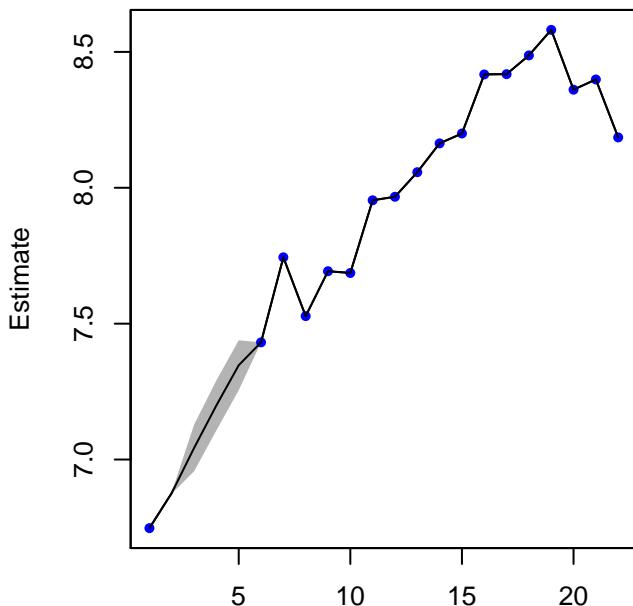
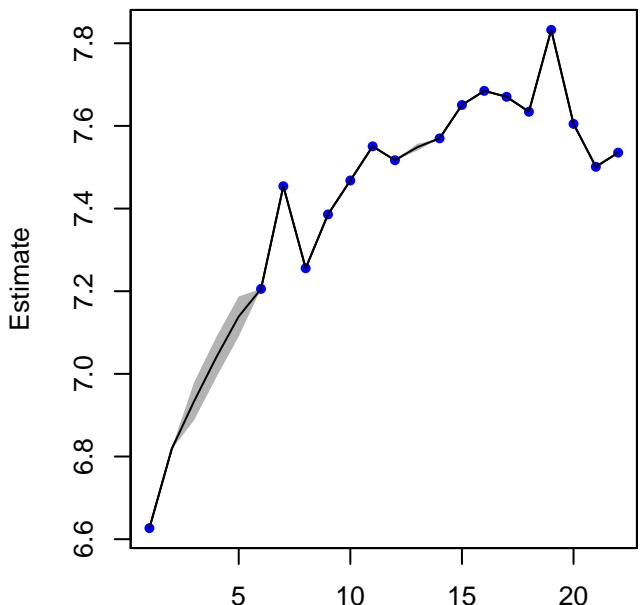
EBays

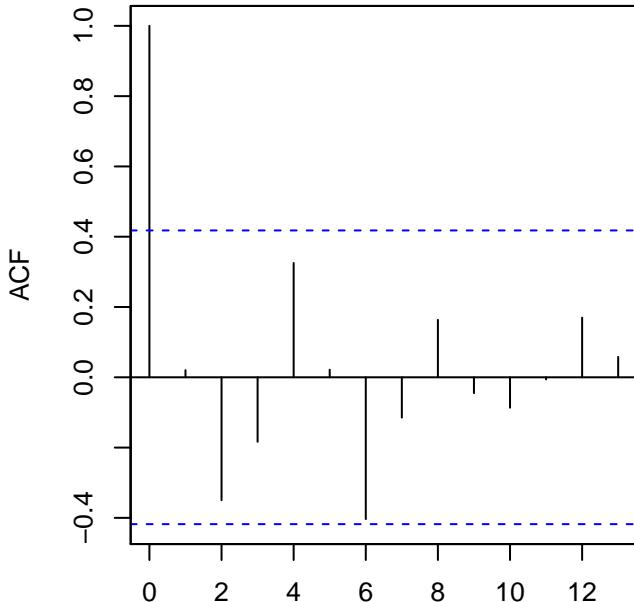
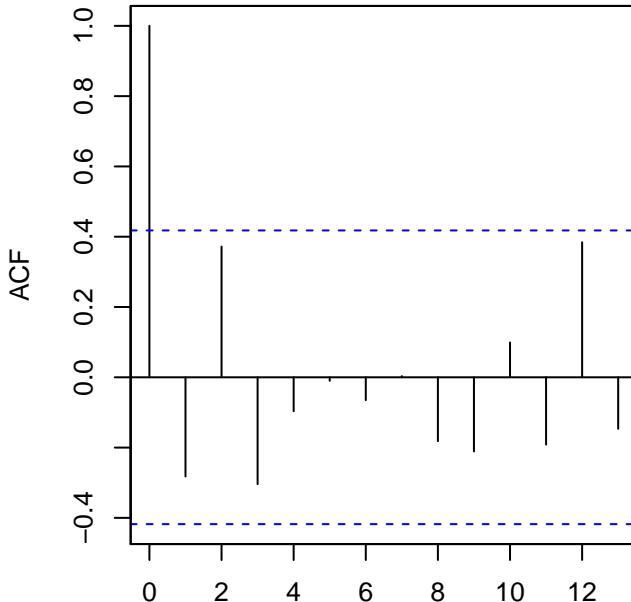
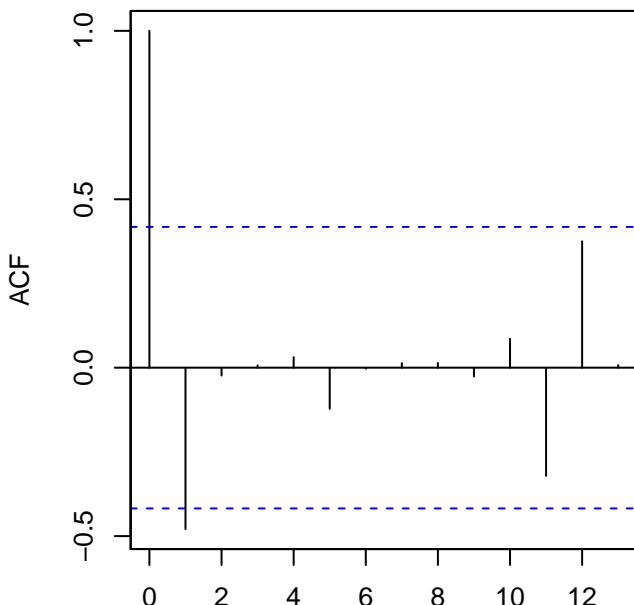


State X.SJF**State X.SJI****State X.EBays**

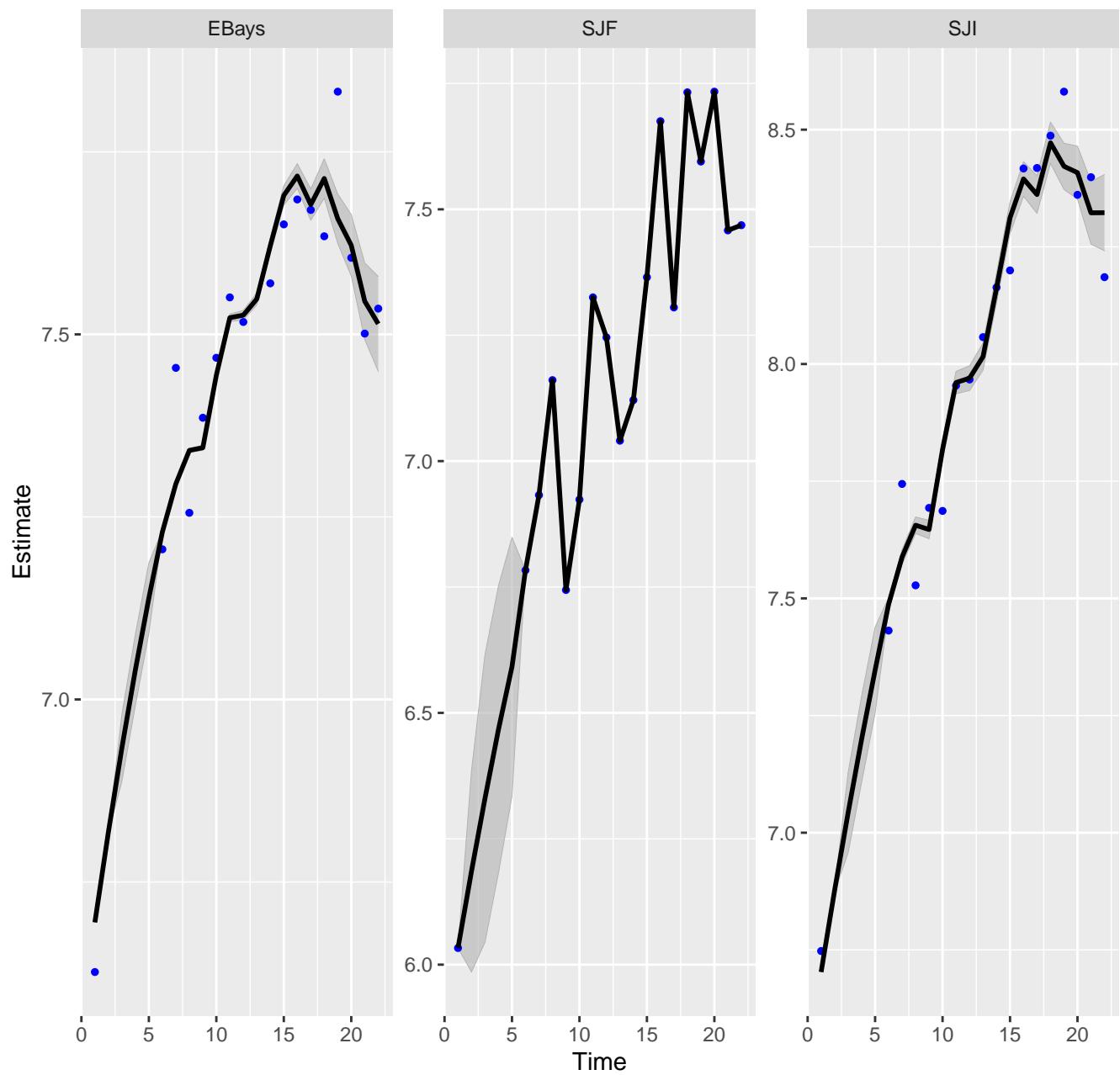
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

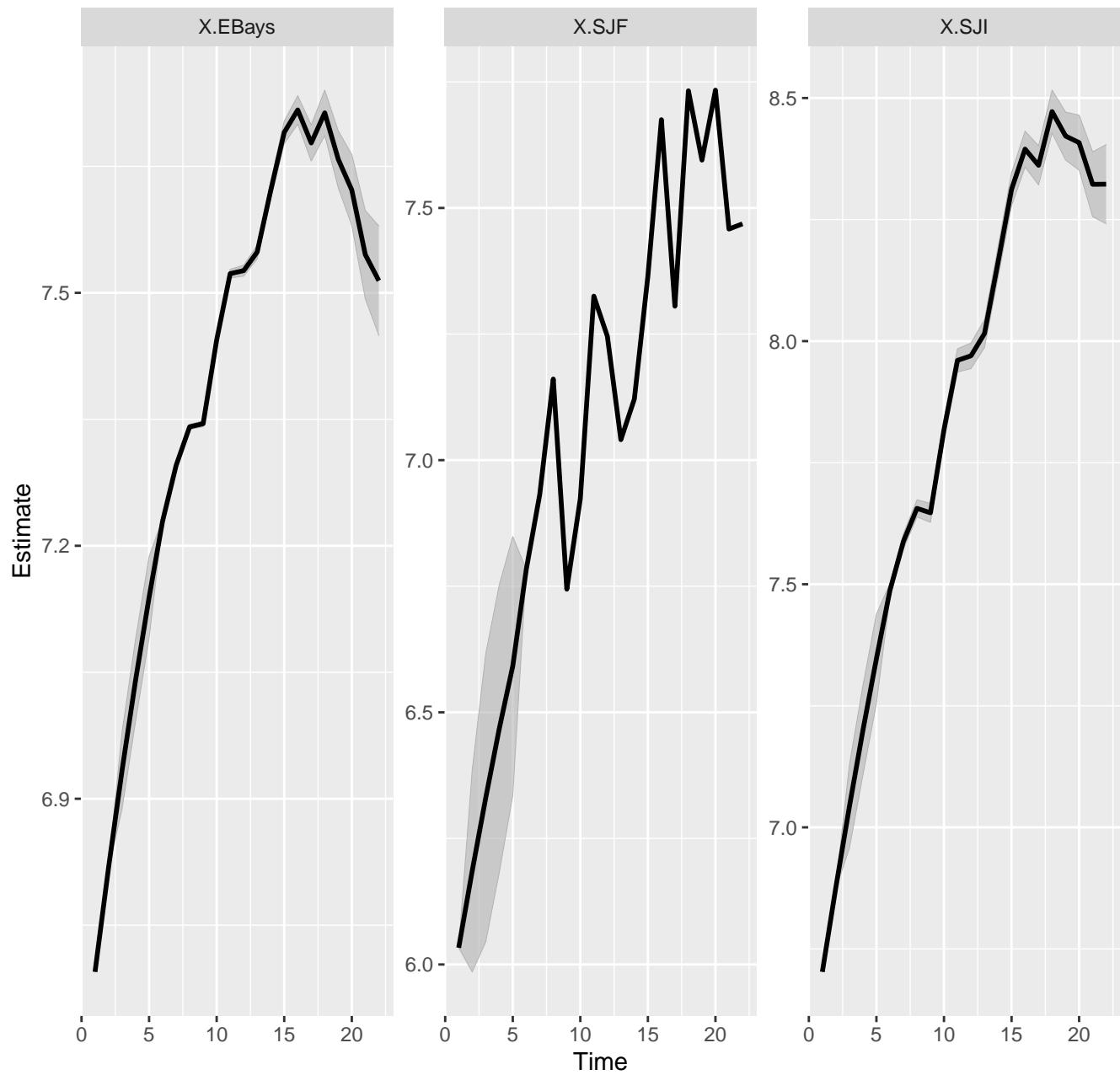
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

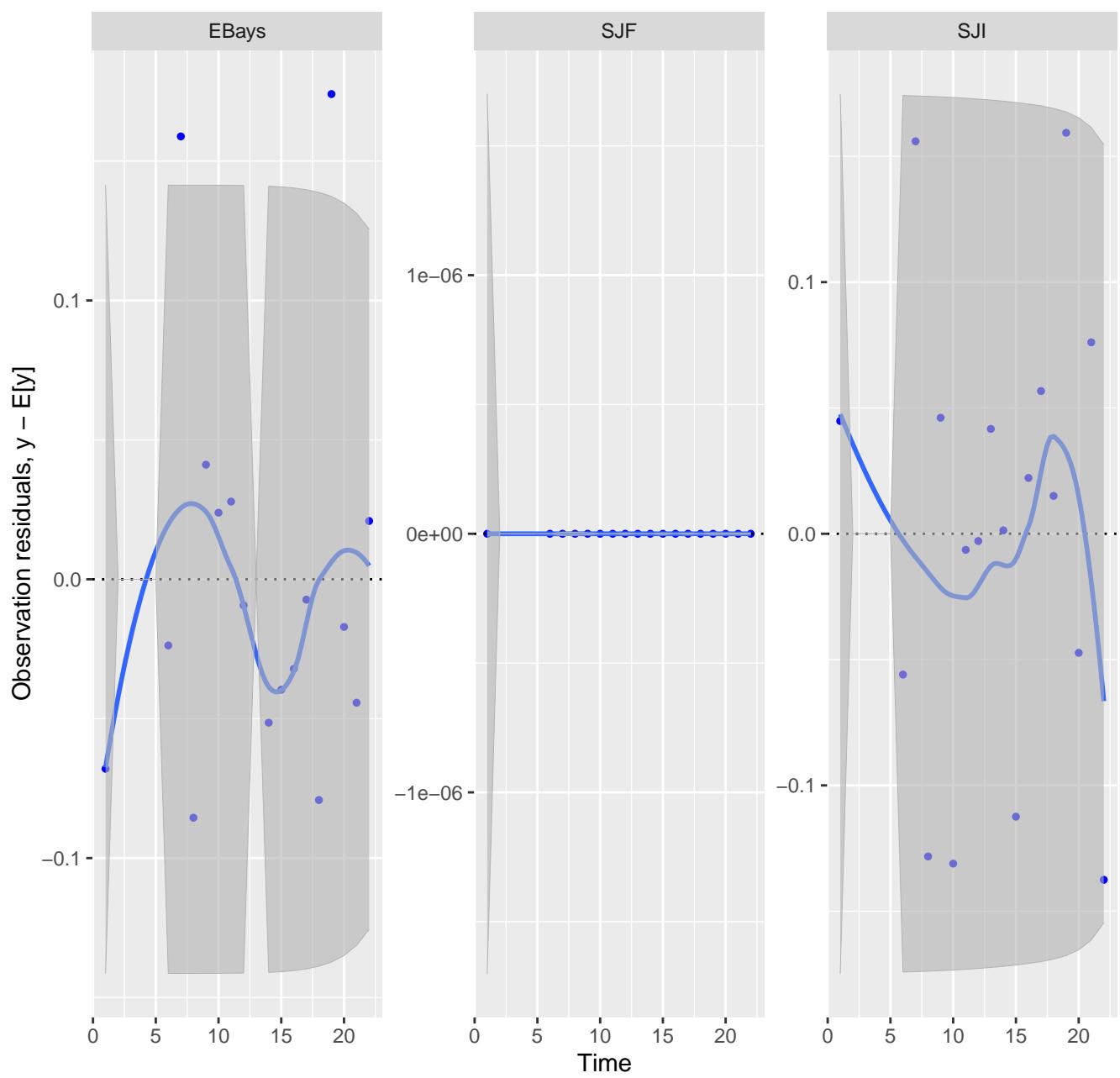
Model fitted Y + CI



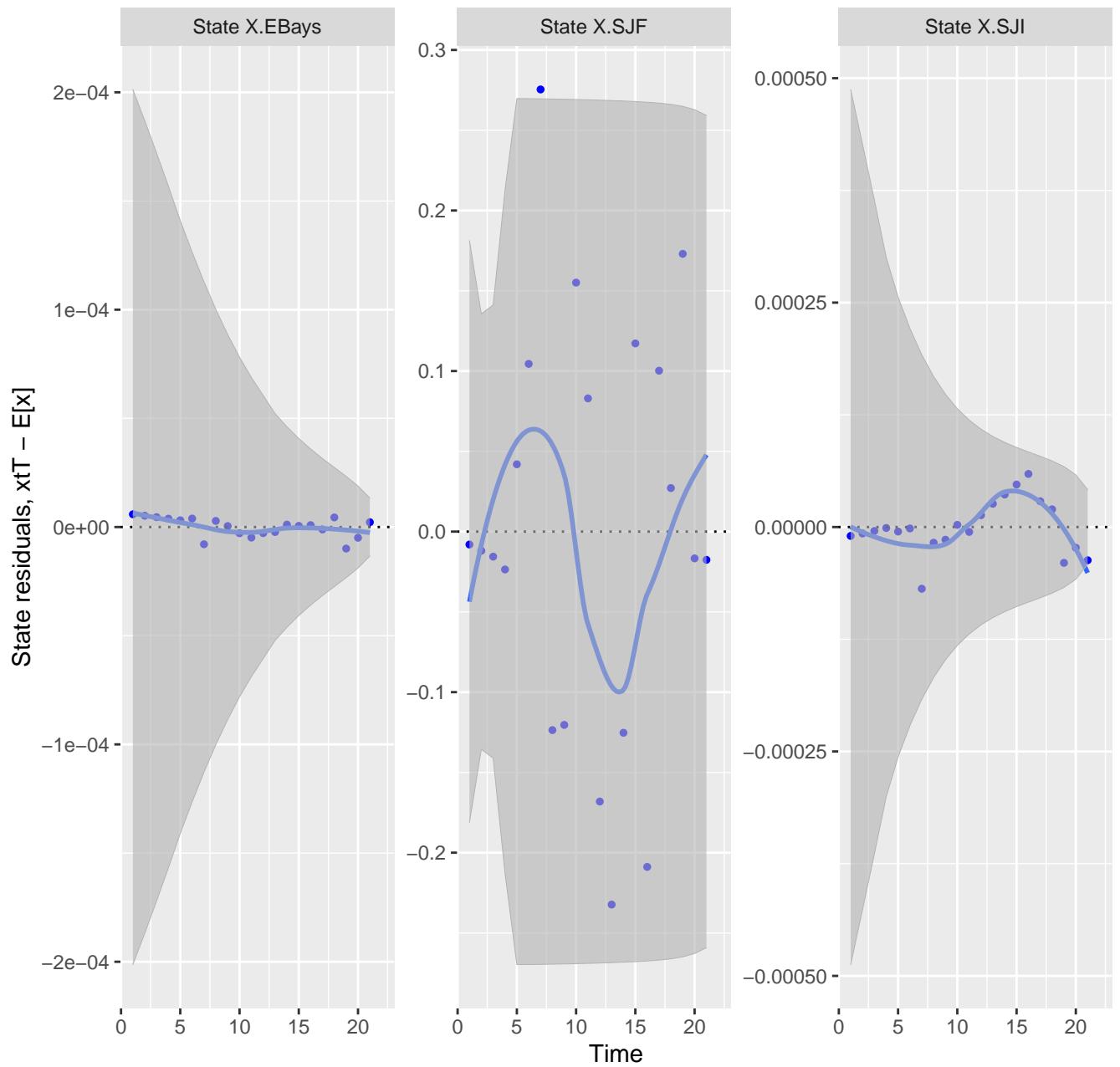
States



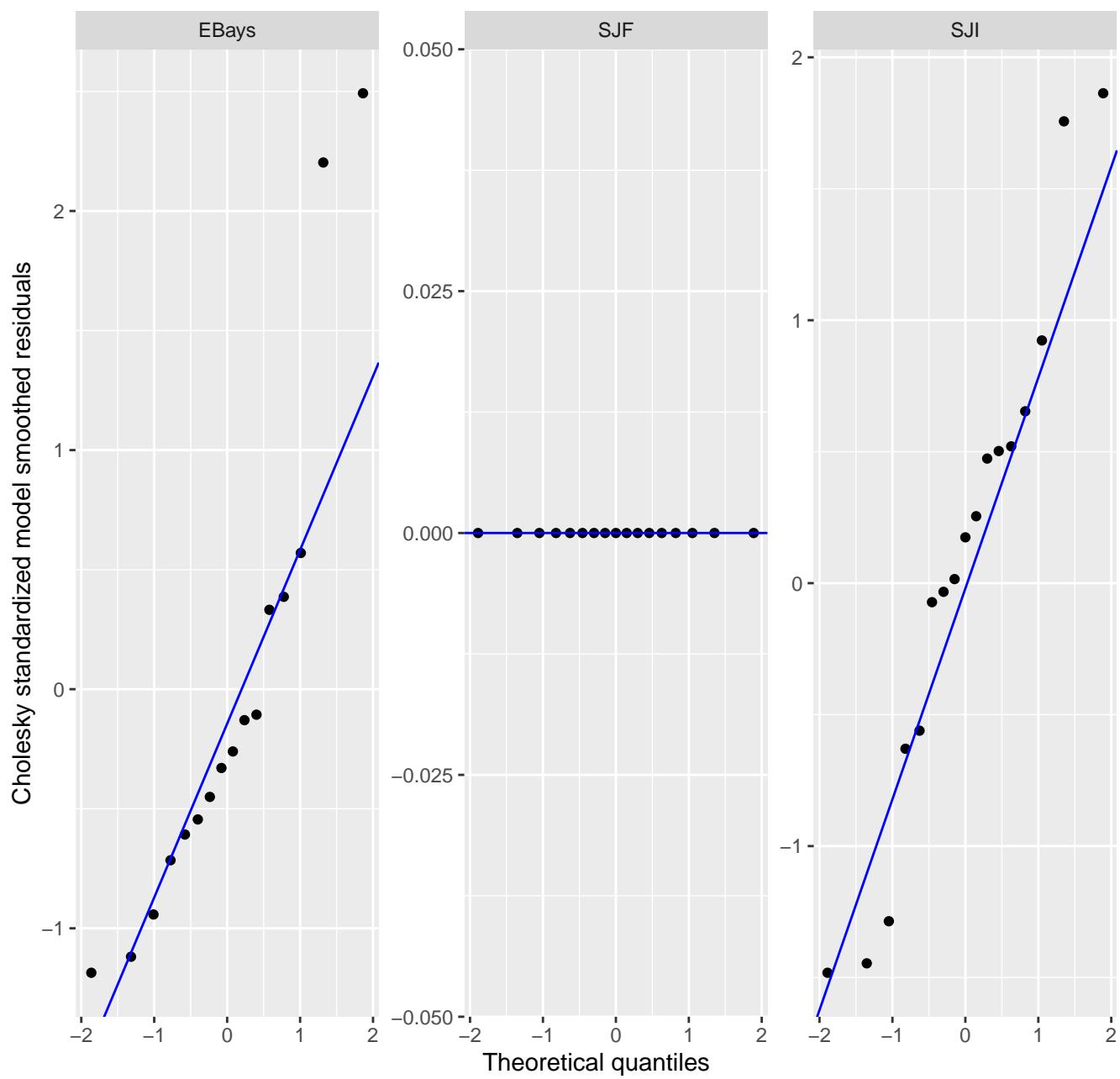
Model residuals



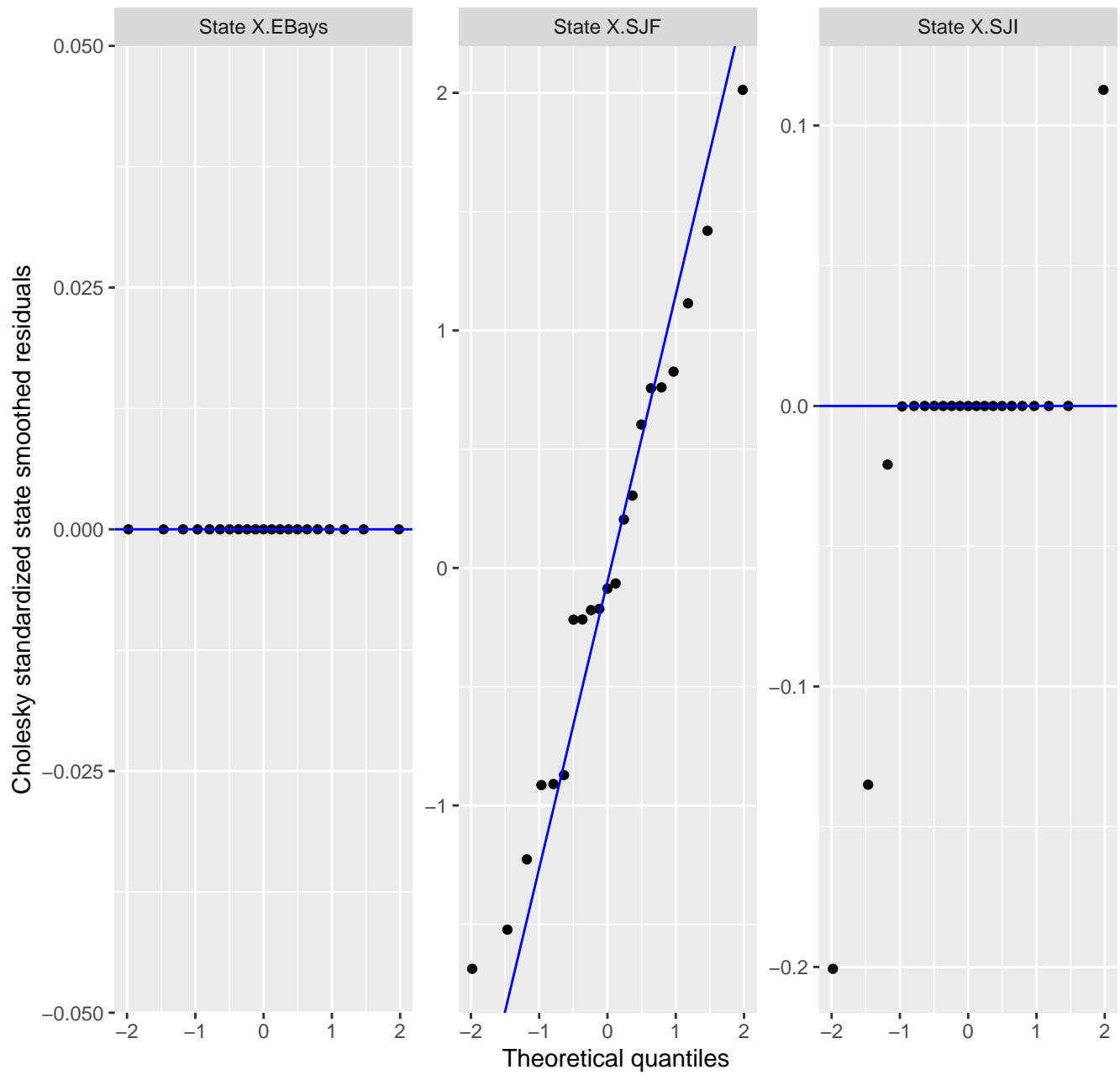
State residuals



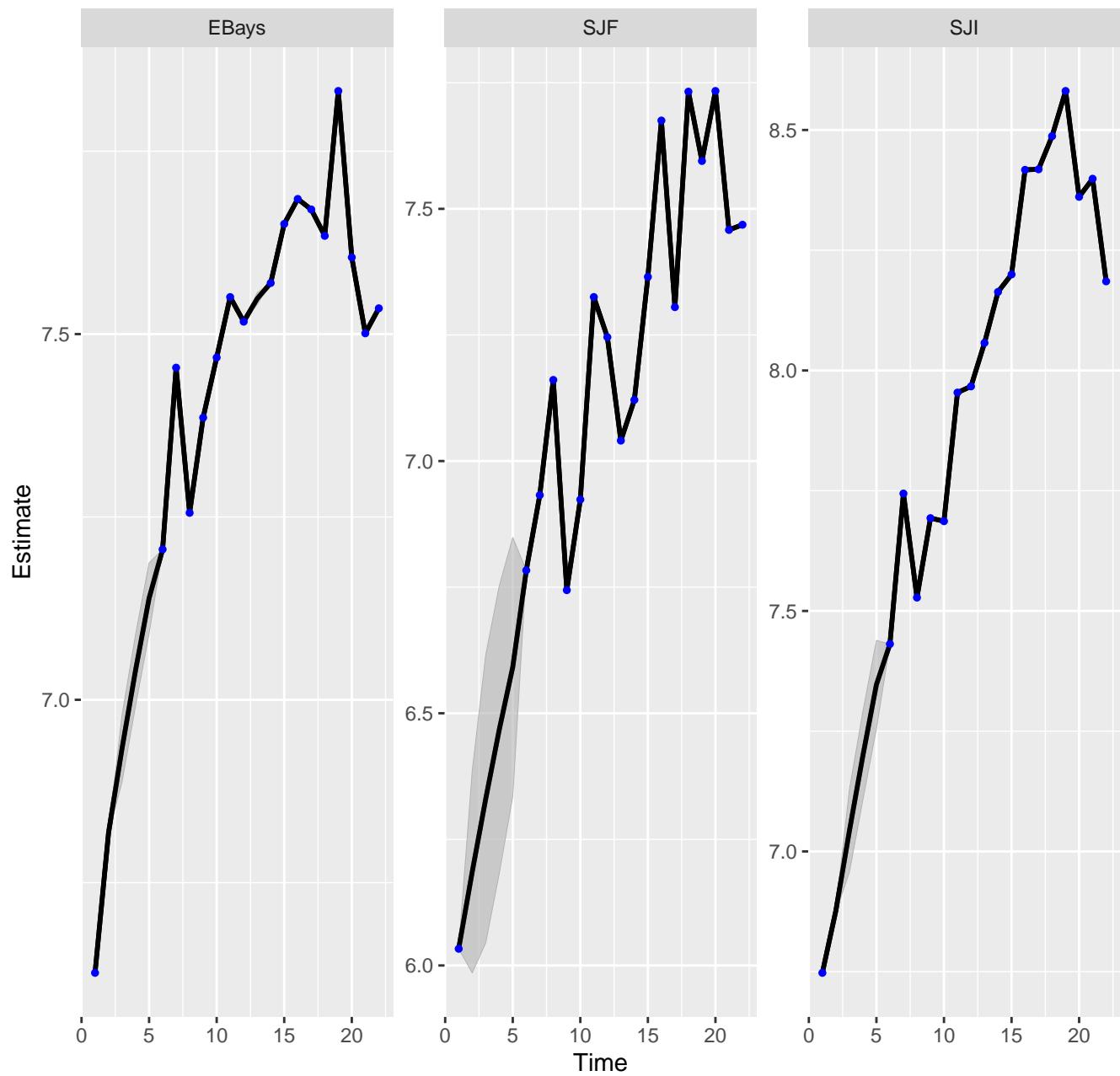
Model residuals normality test



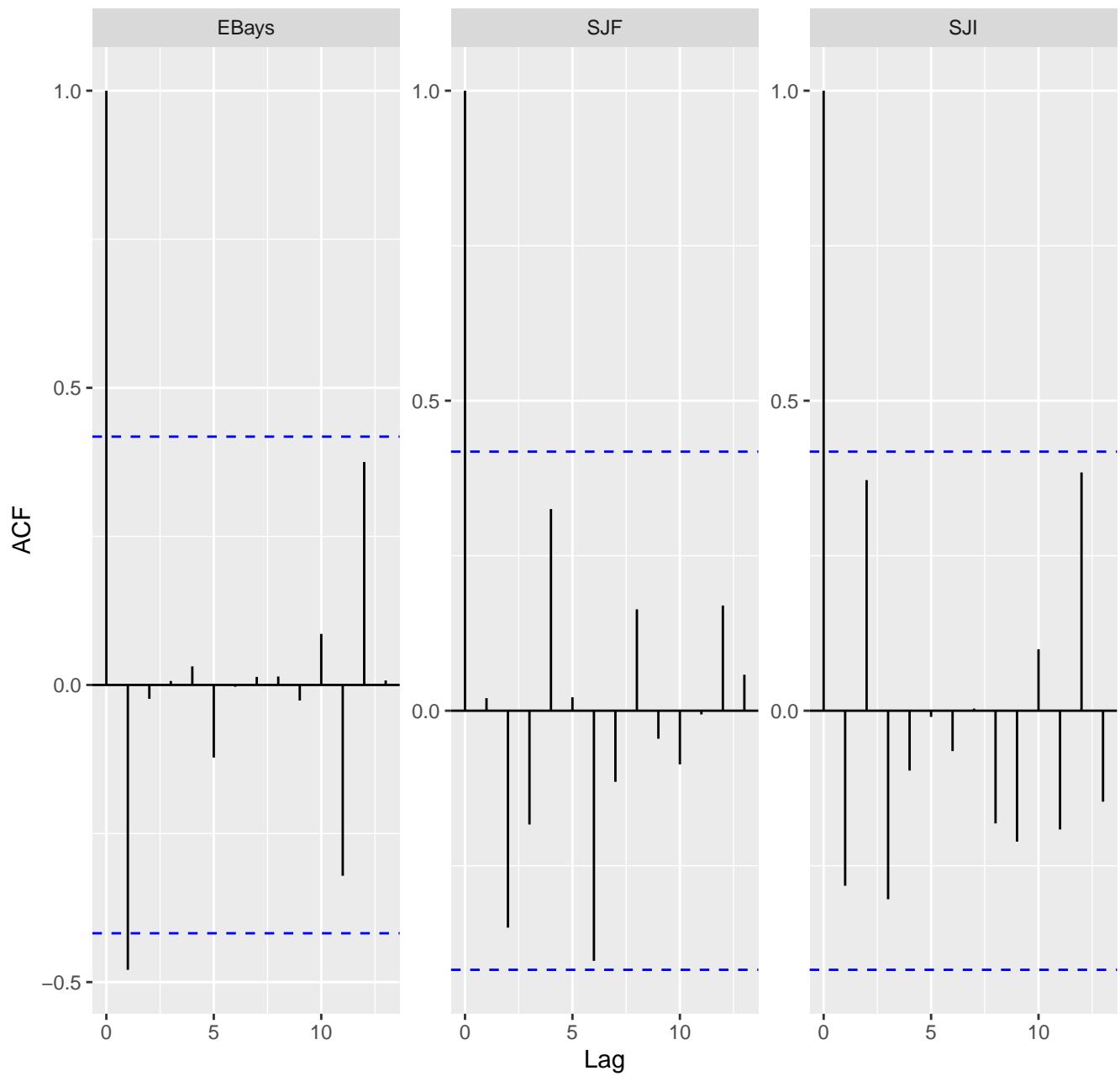
State residuals normality test

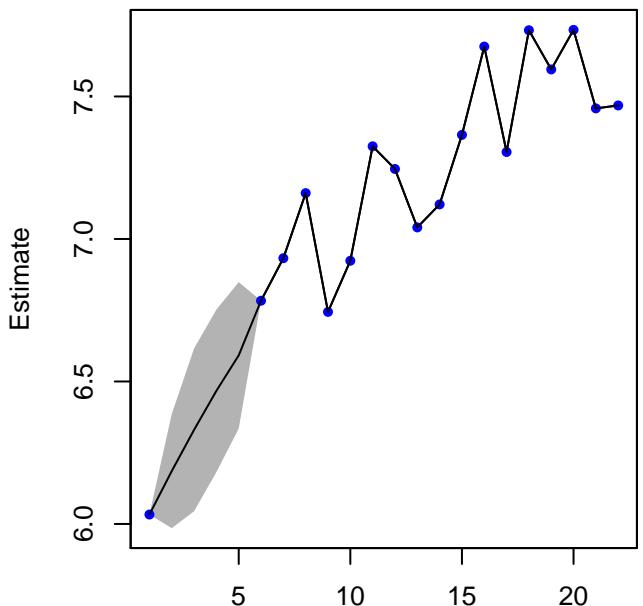
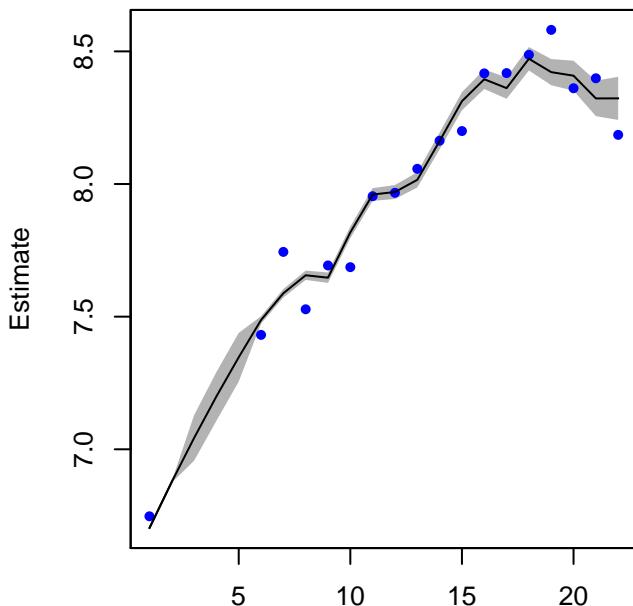
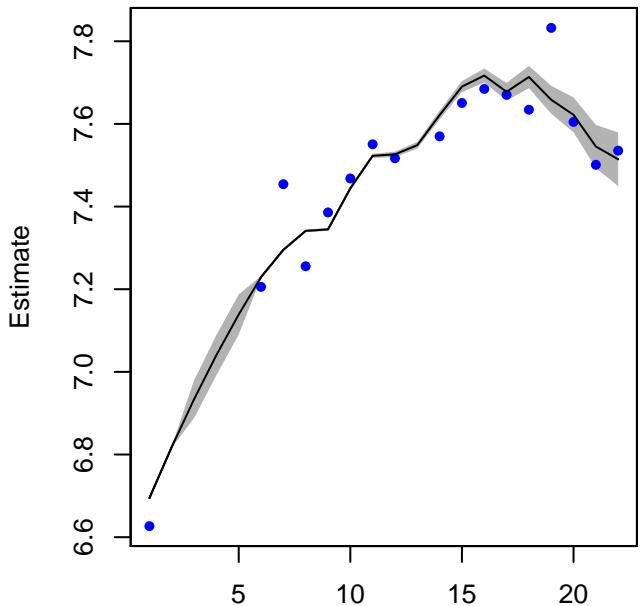


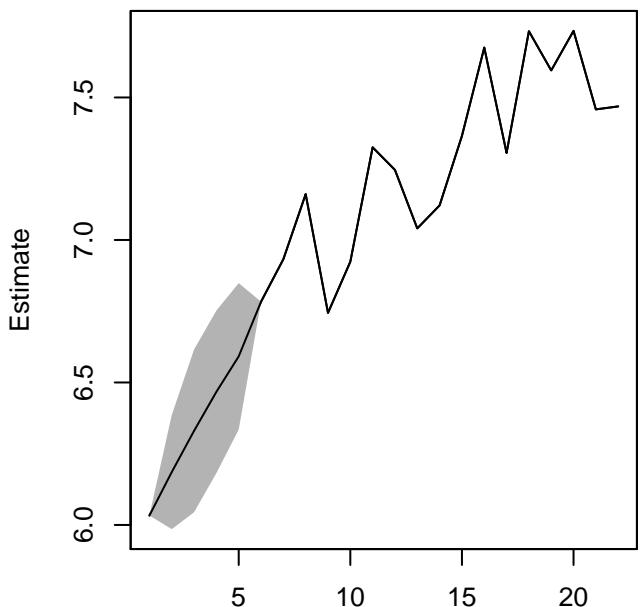
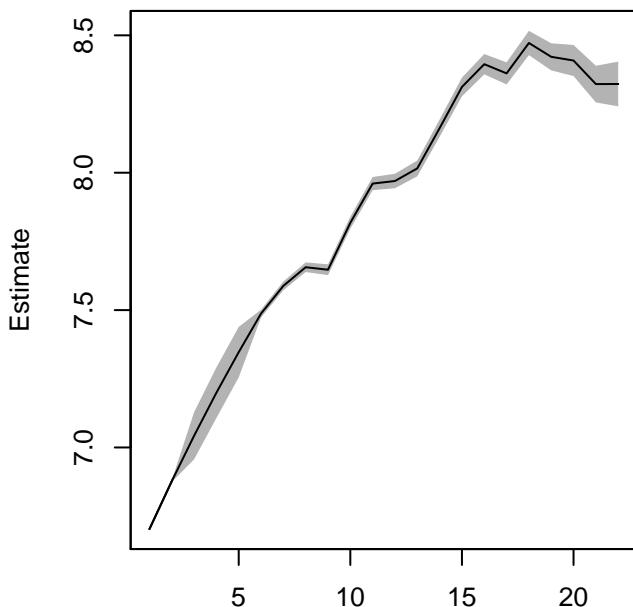
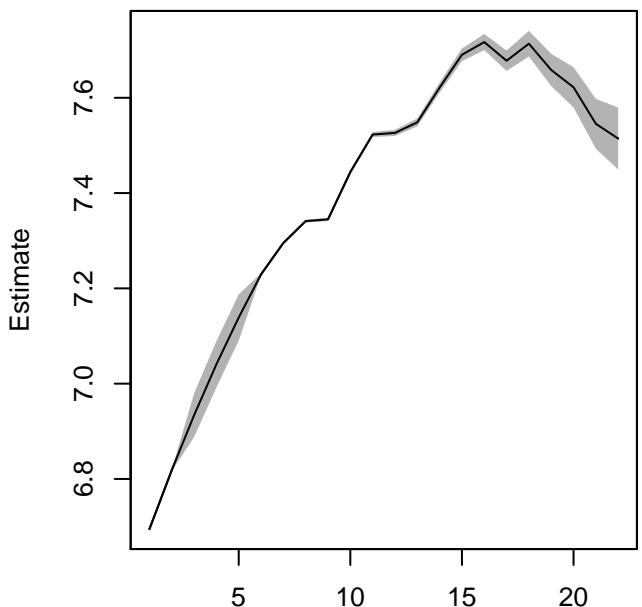
Expected value of Y conditioned on data

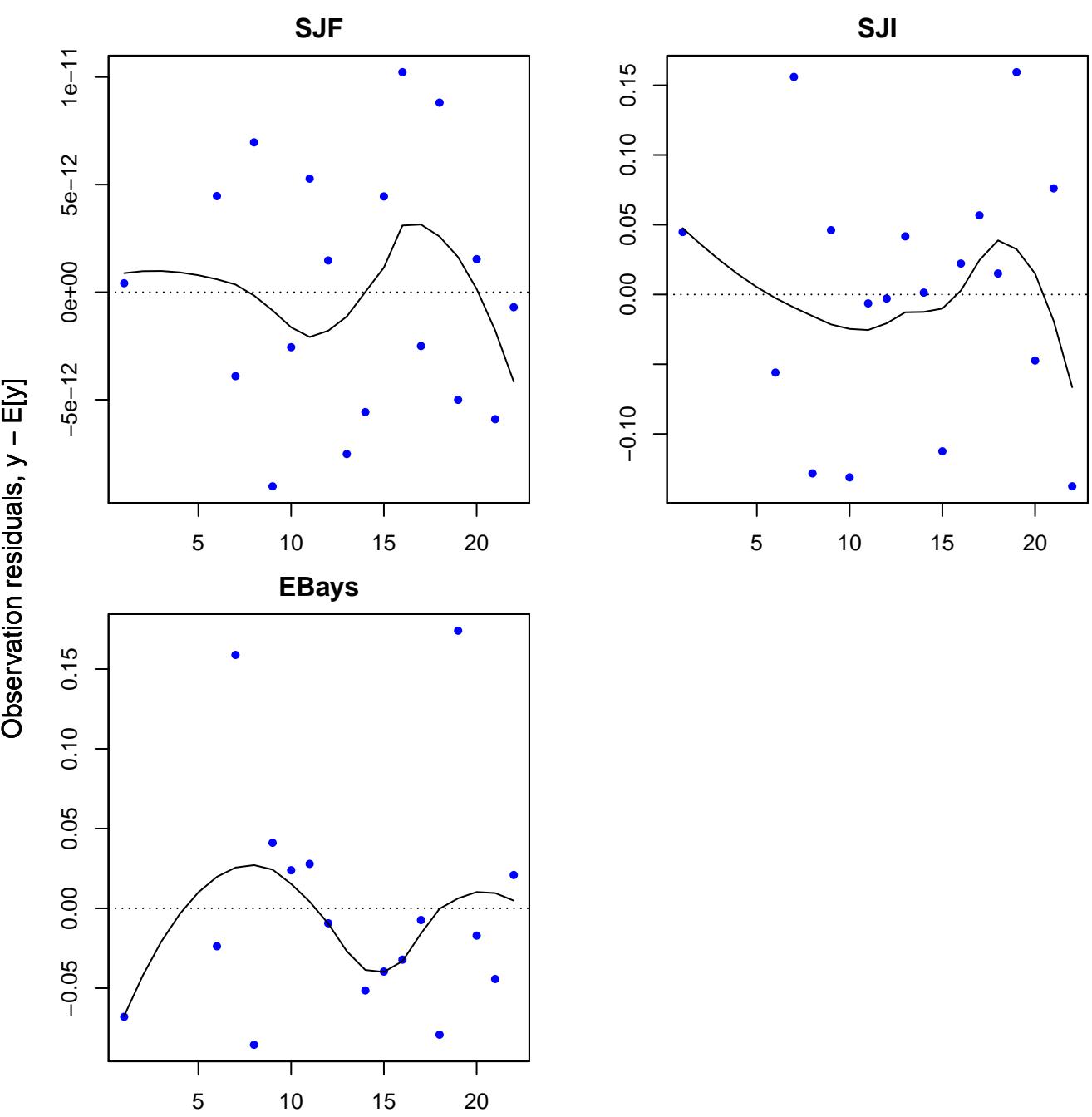


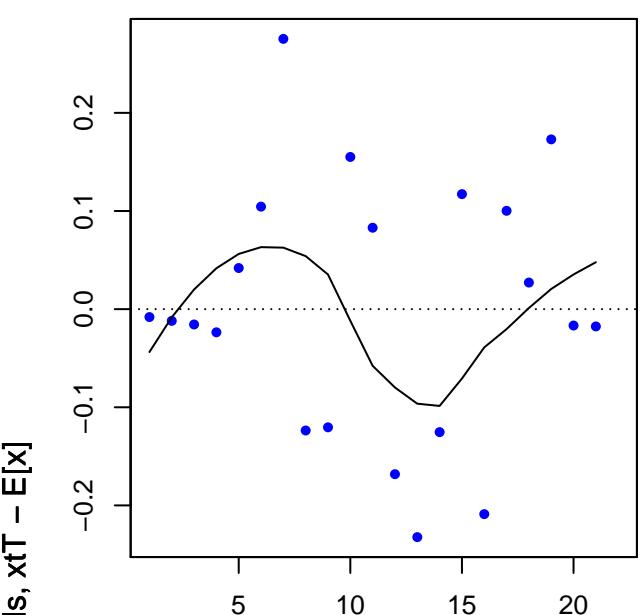
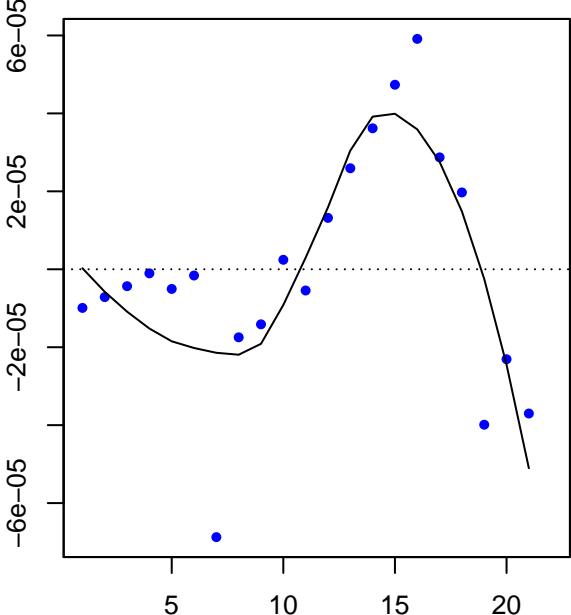
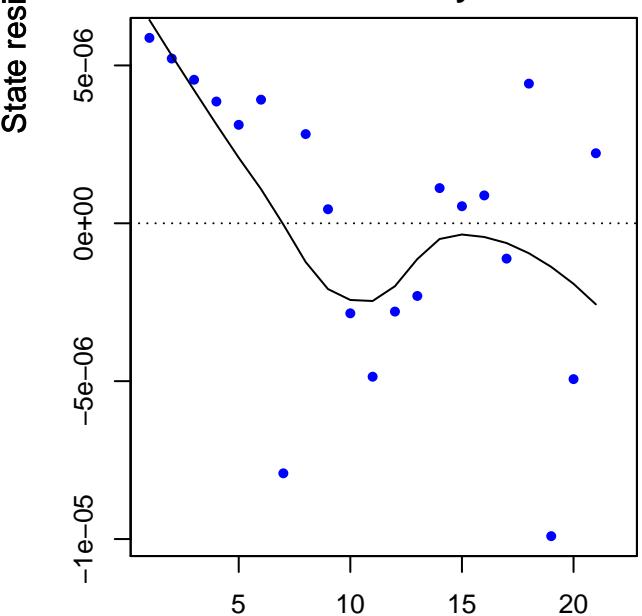
Model innovations residuals ACF

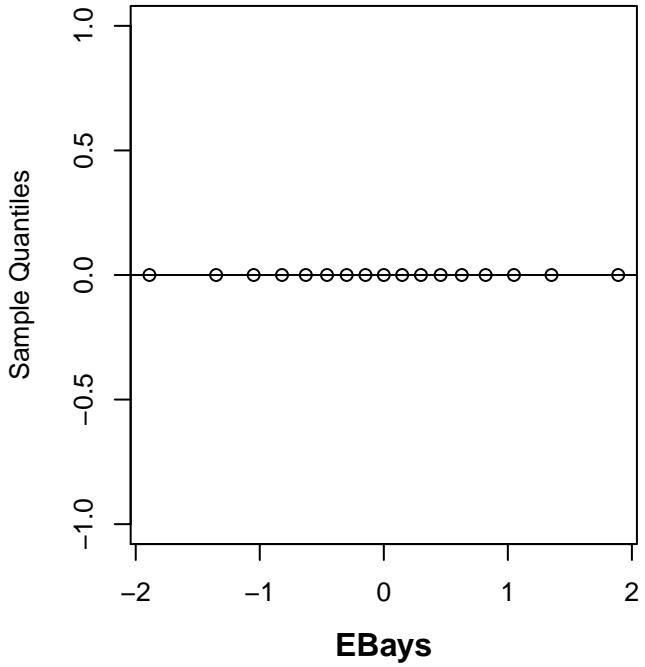
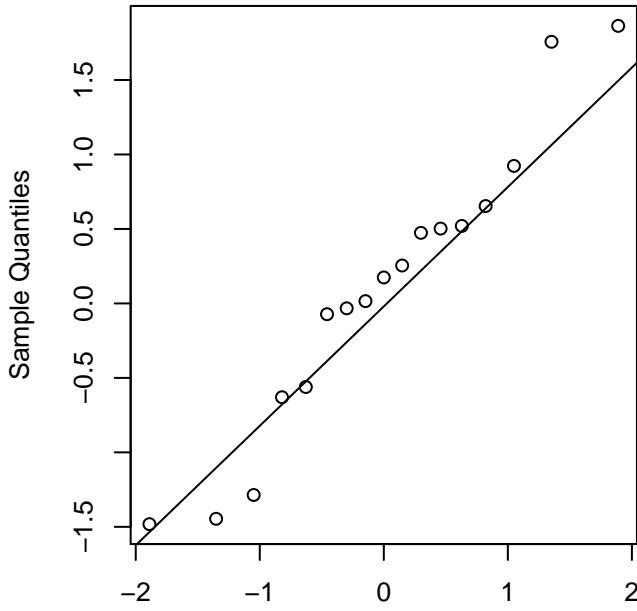
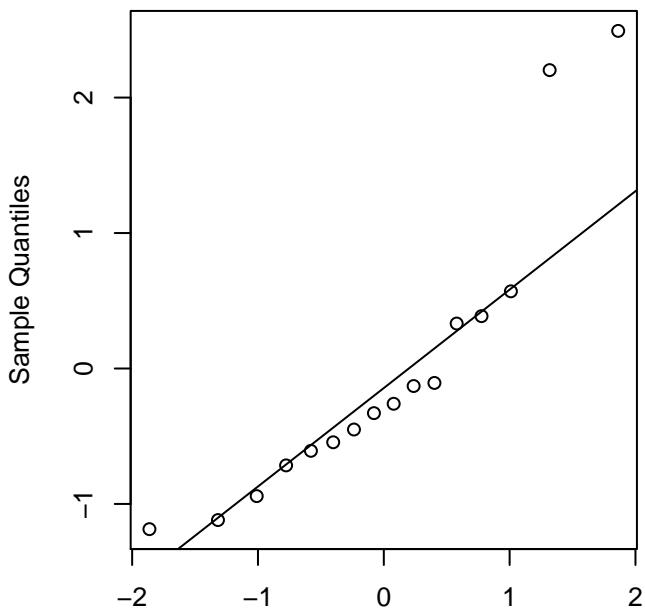


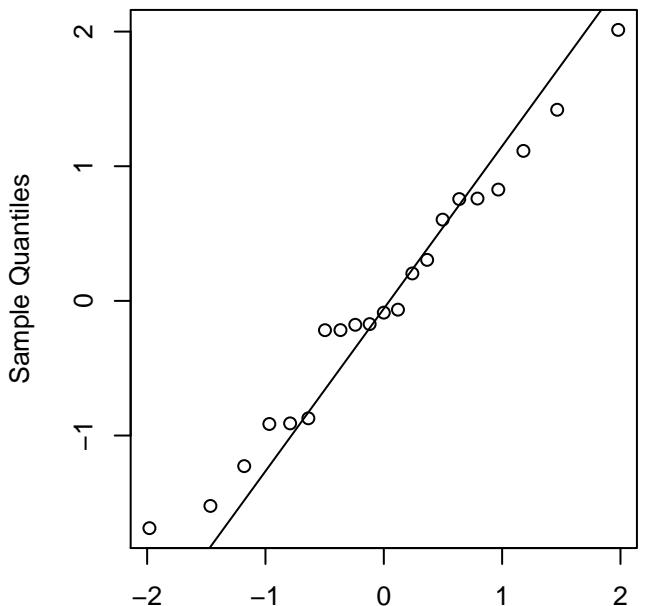
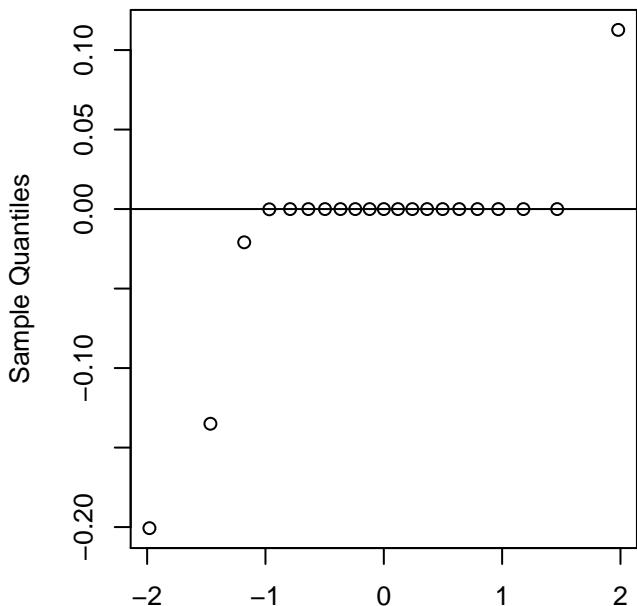
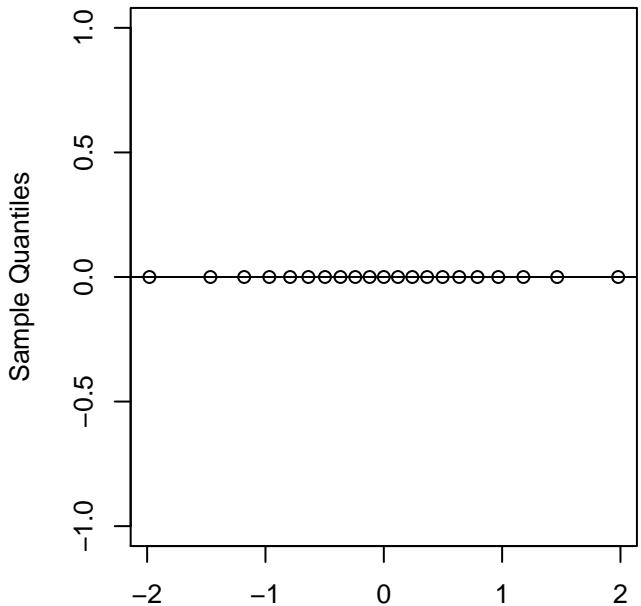
SJF + CI**SJI + CI****EBays + CI**

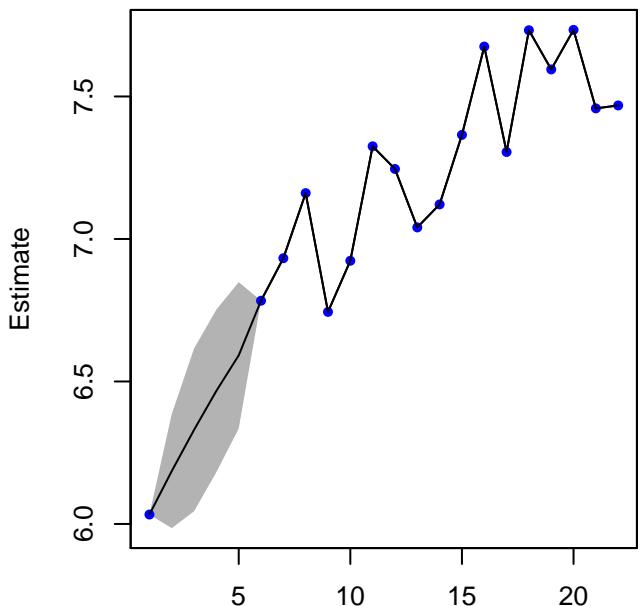
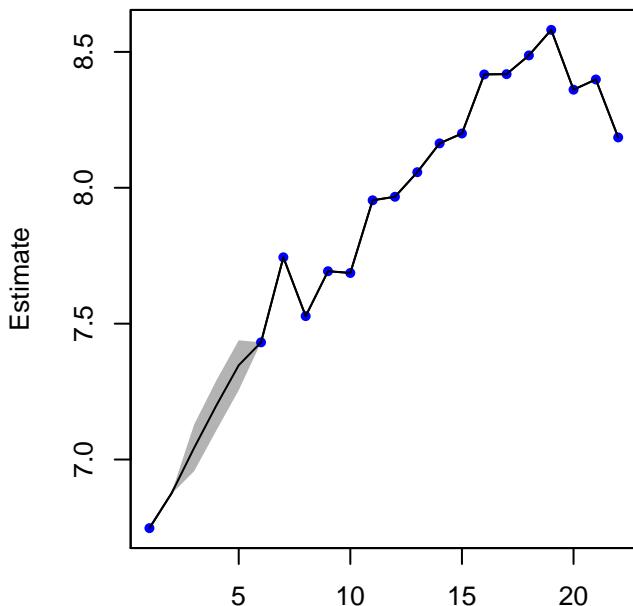
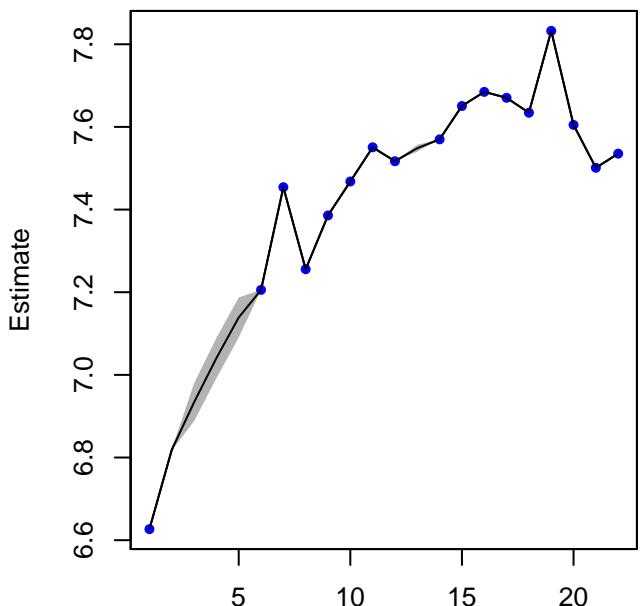
State X.SJF**State X.SJI****State X.EBays**

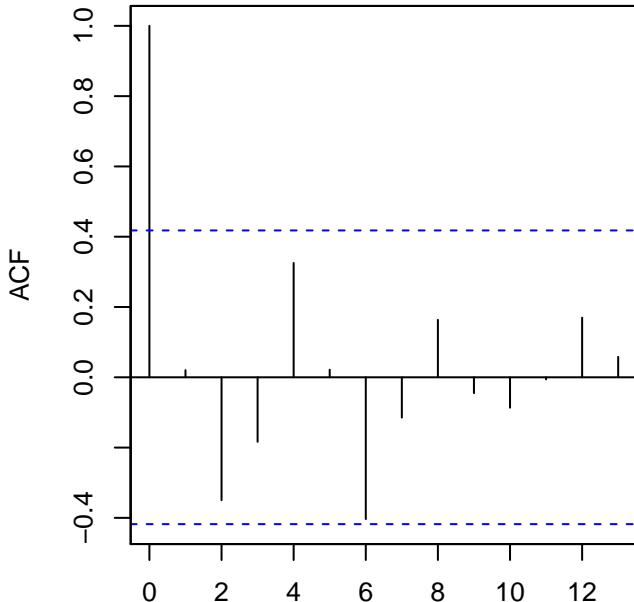
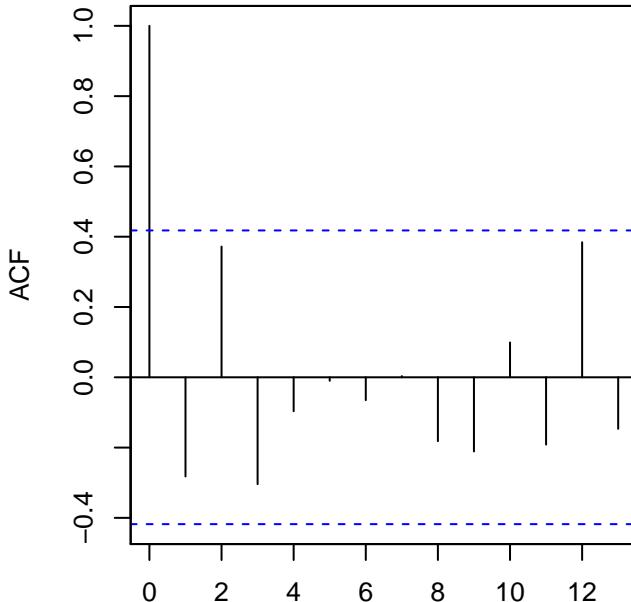
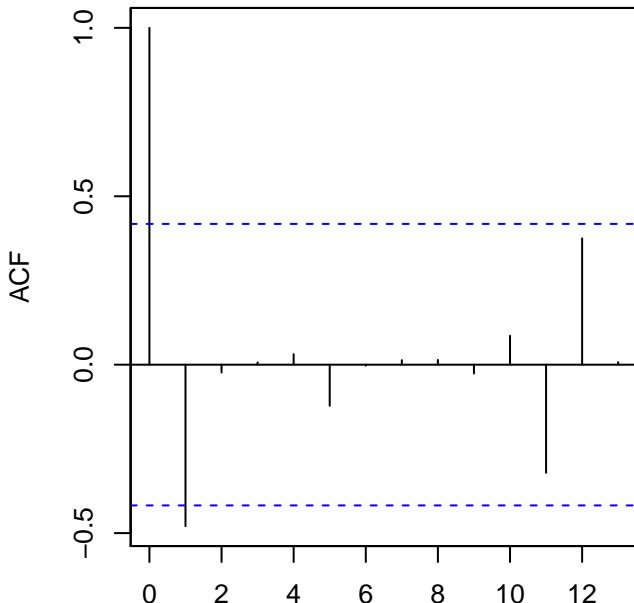


State X.SJF**State X.SJI****State X.EBays**

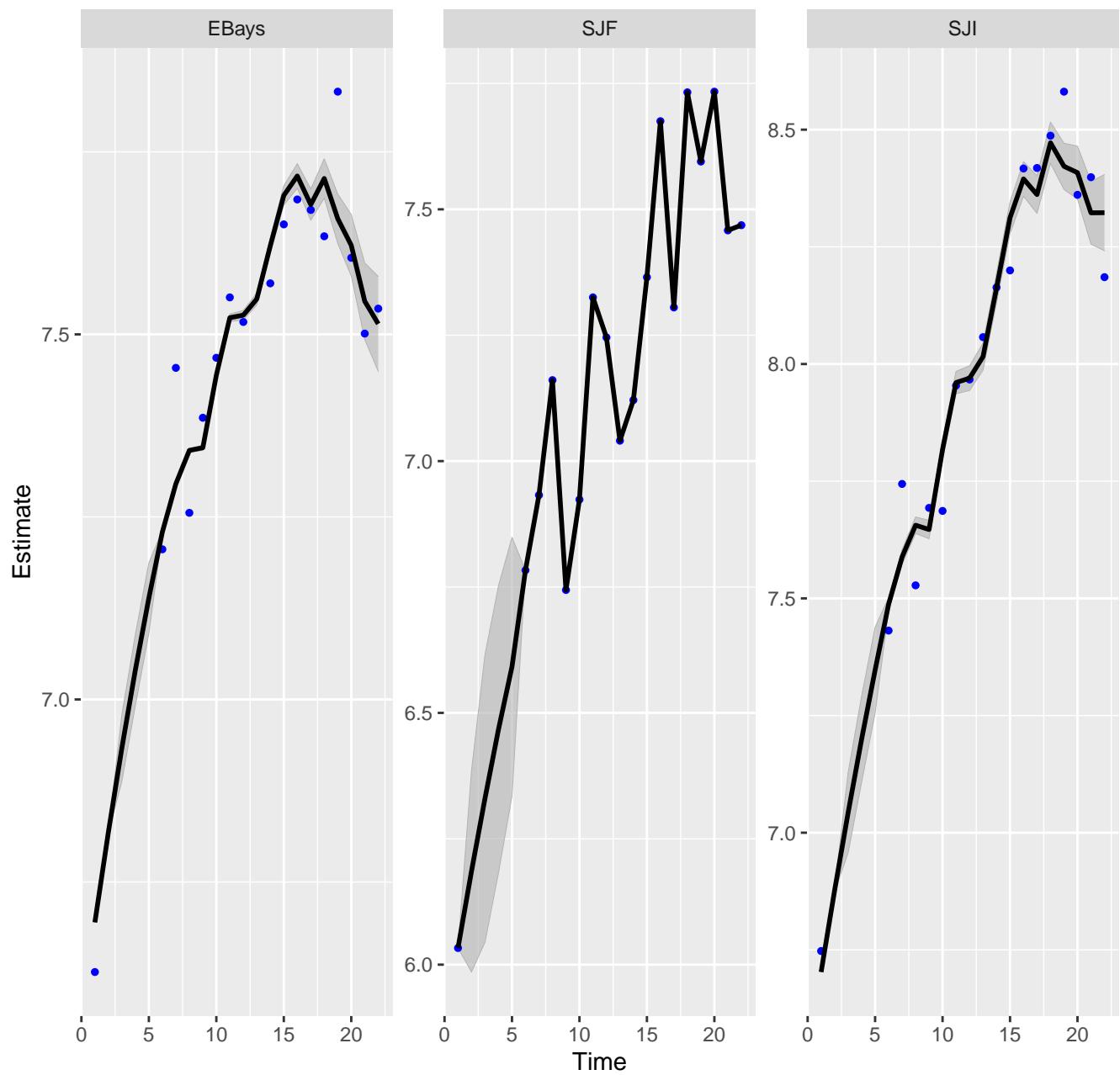
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

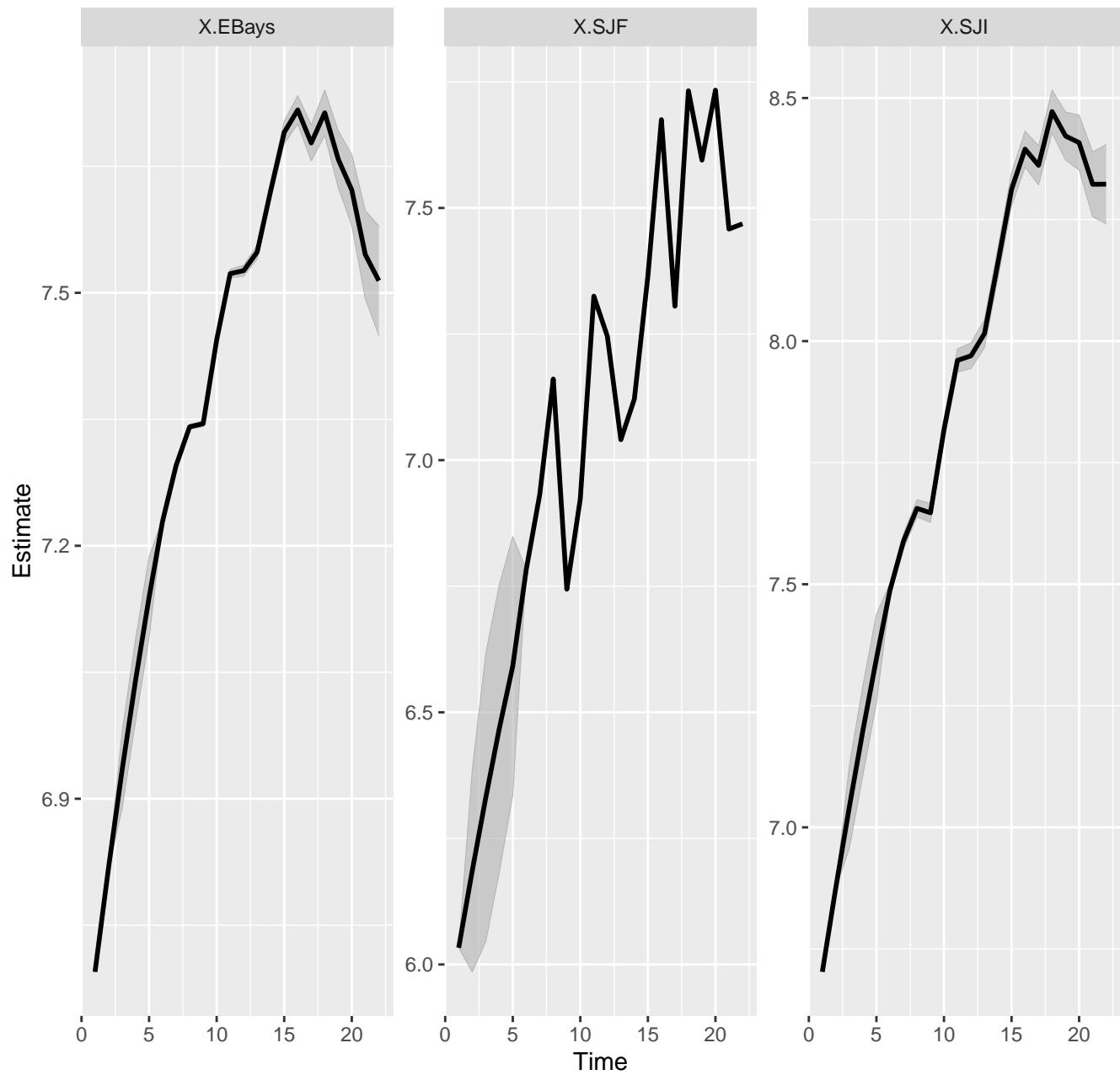
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

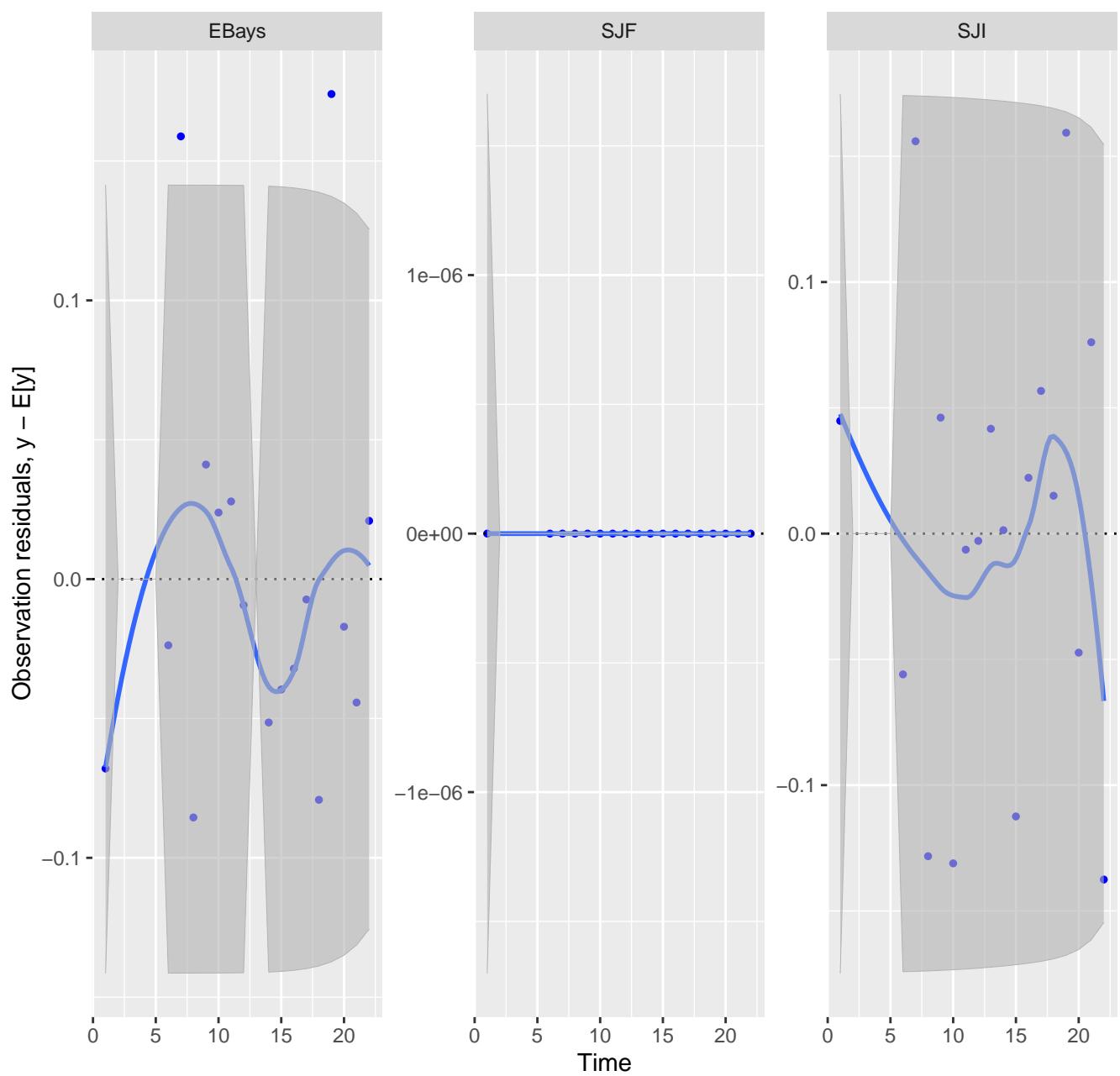
Model fitted Y + CI



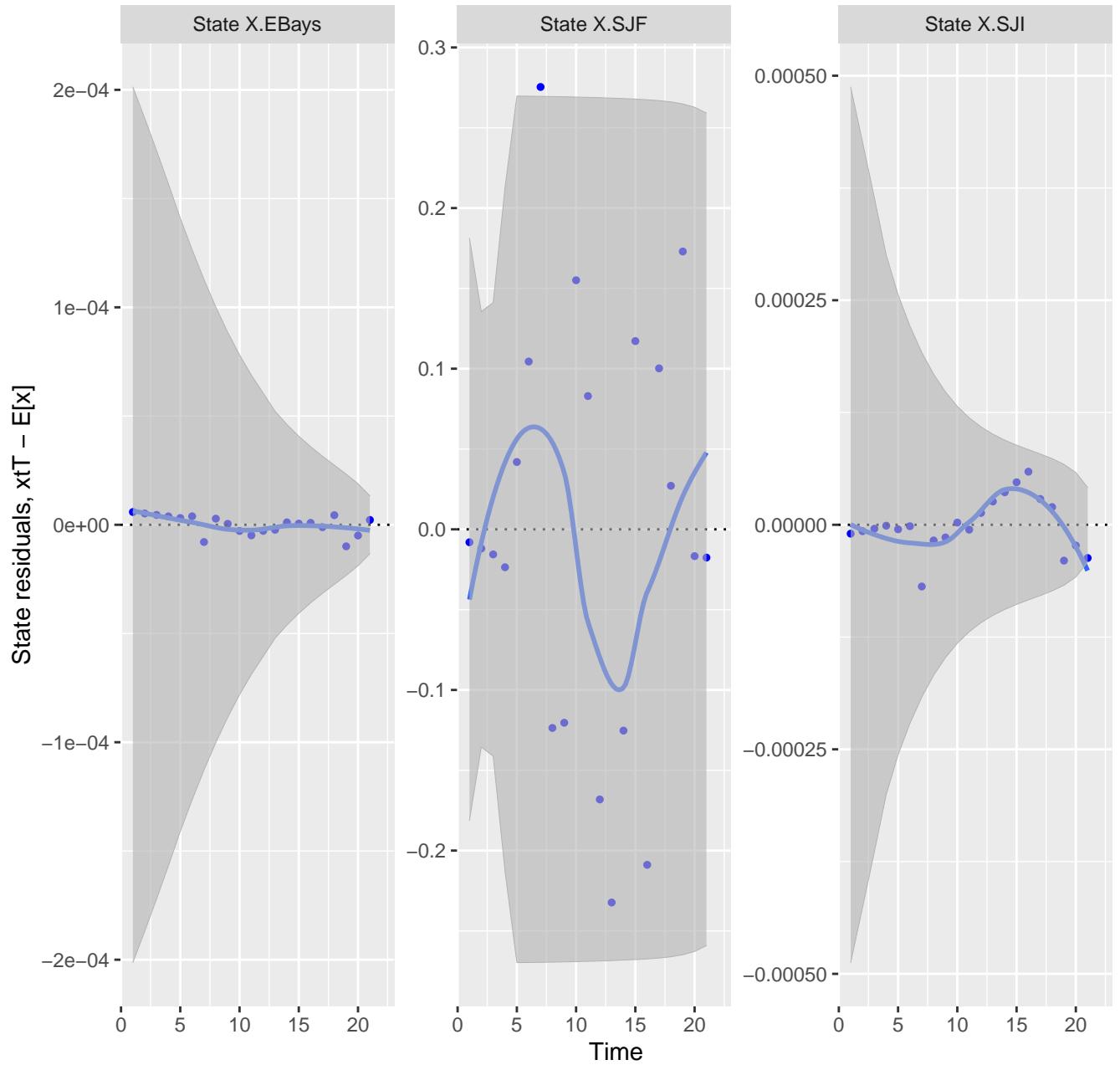
States



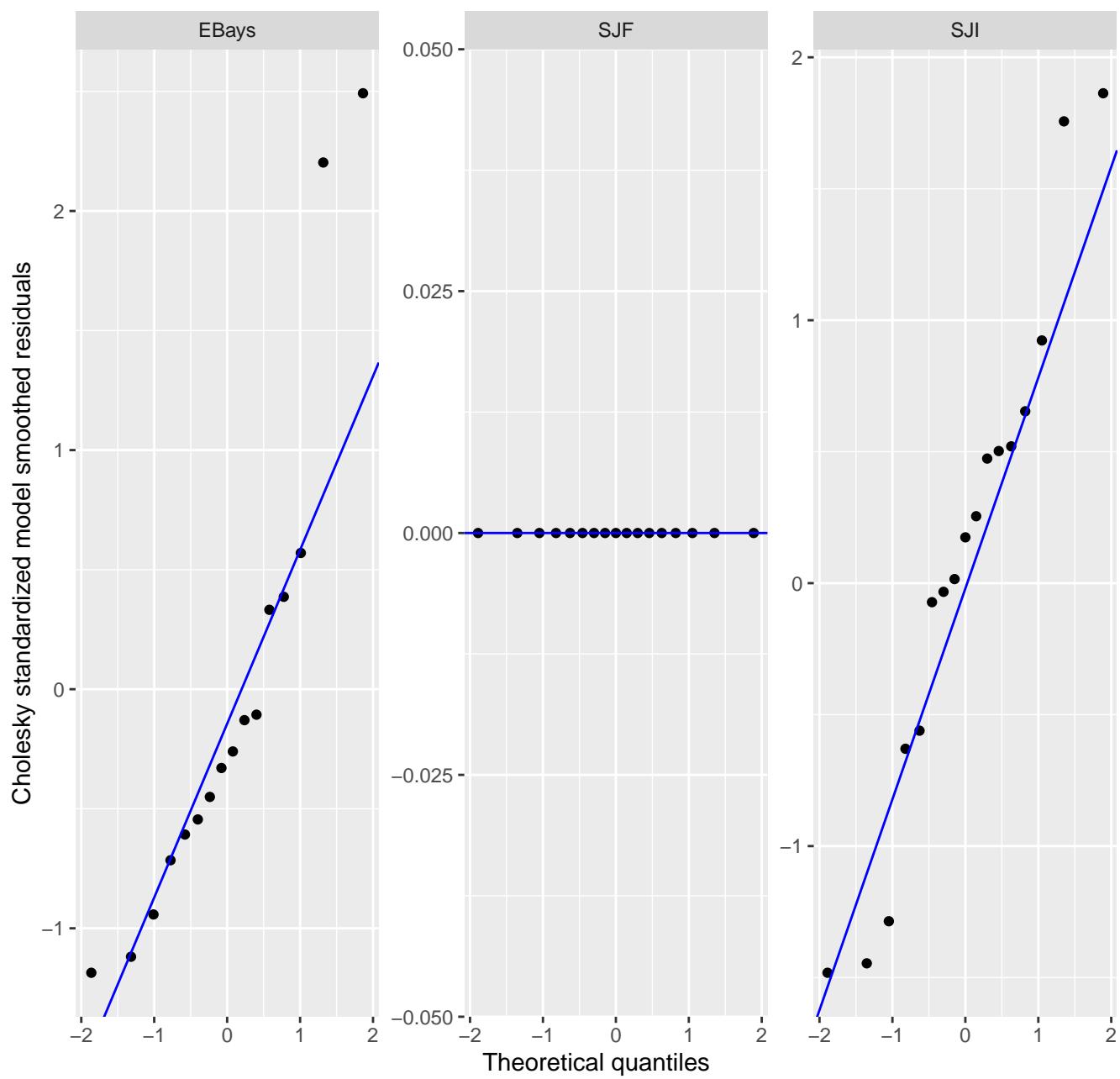
Model residuals



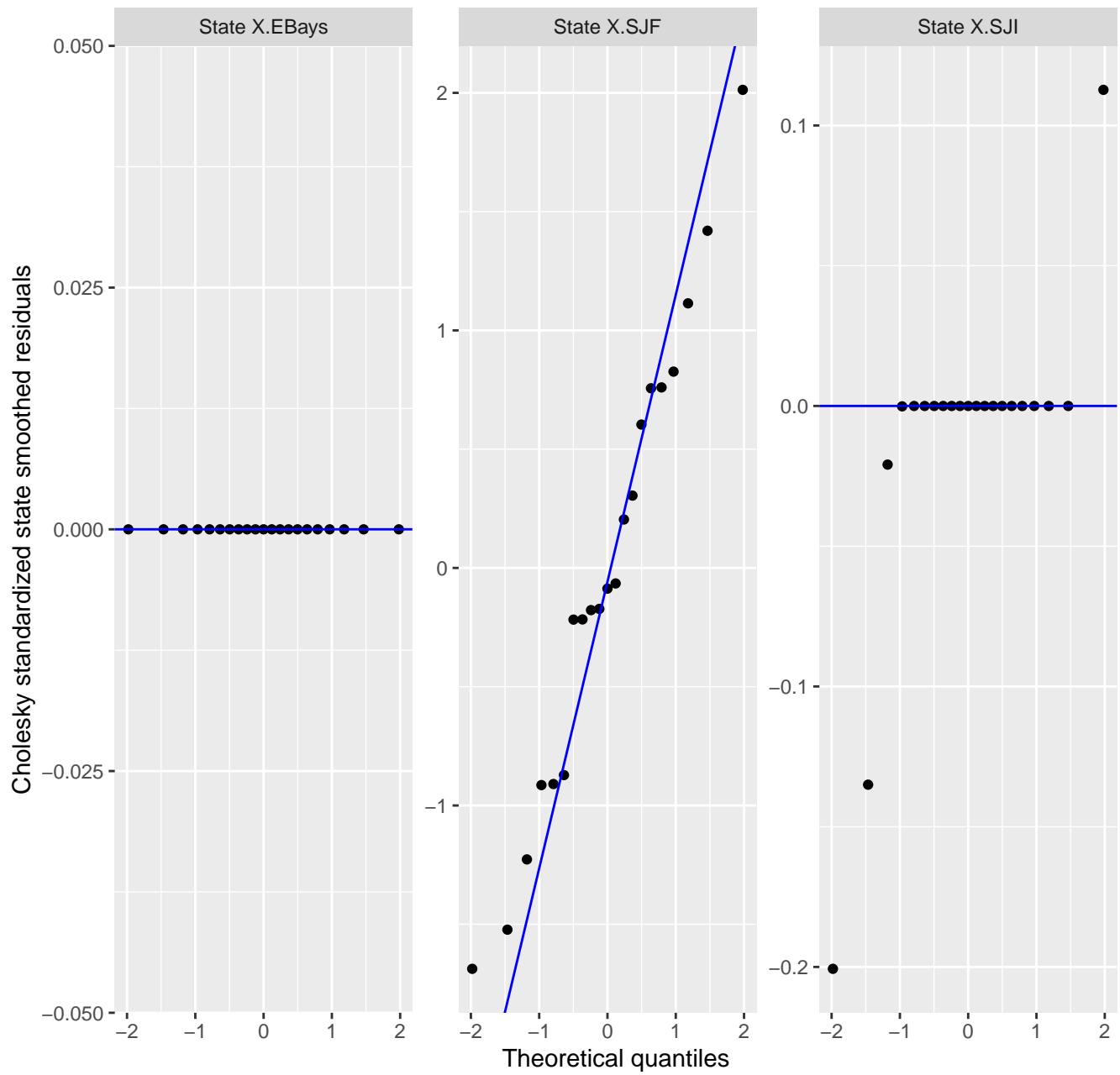
State residuals



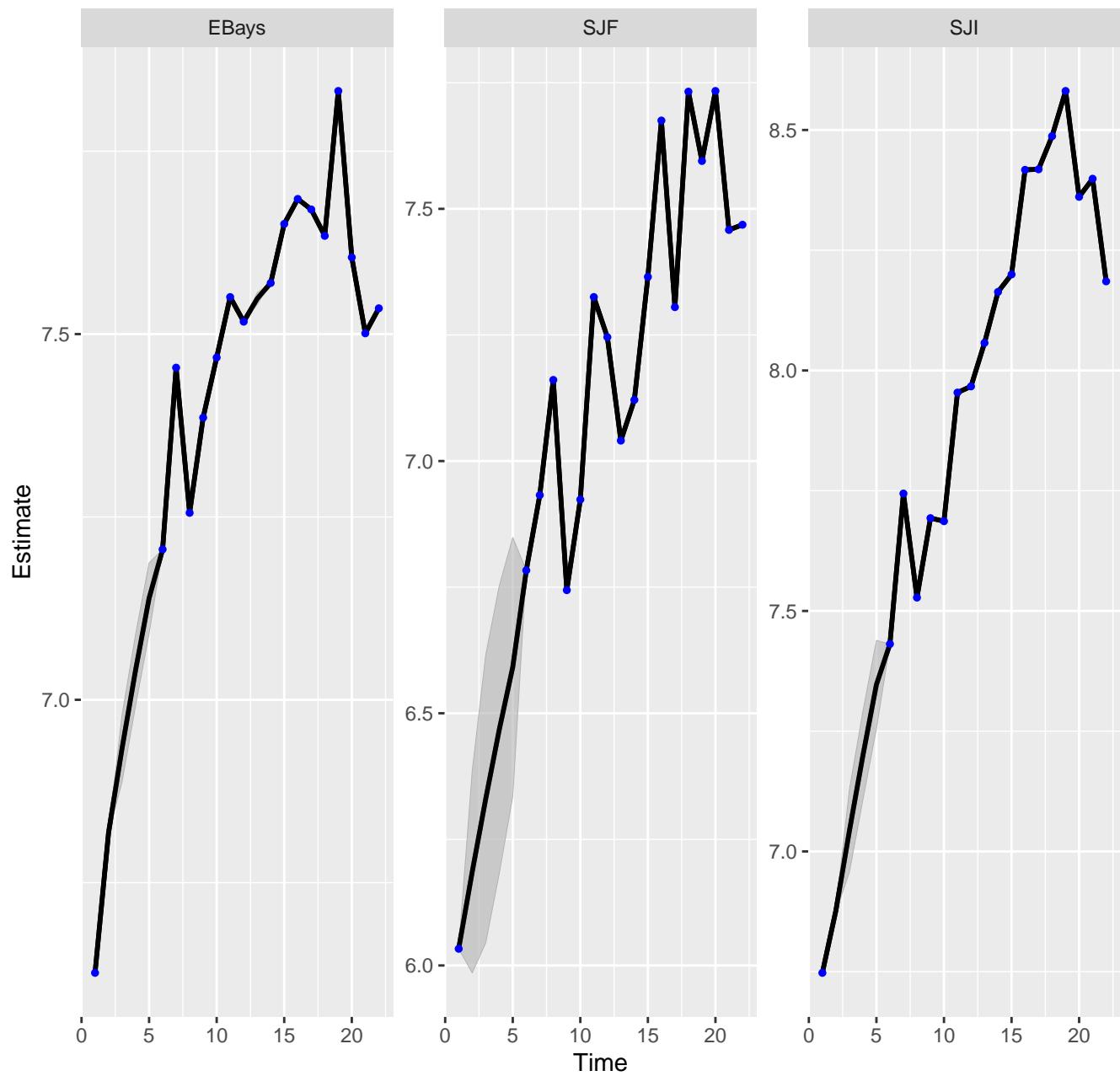
Model residuals normality test



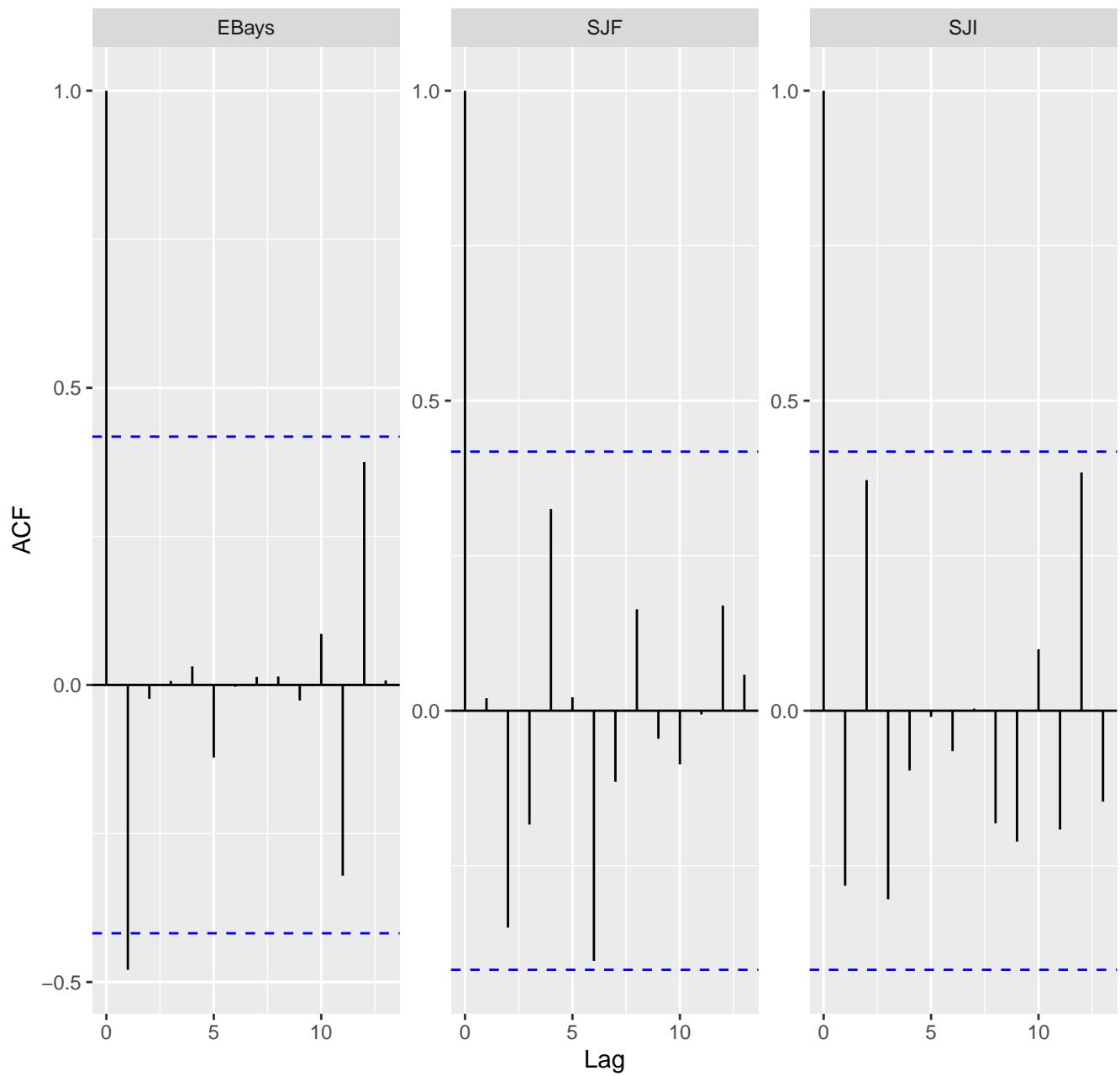
State residuals normality test

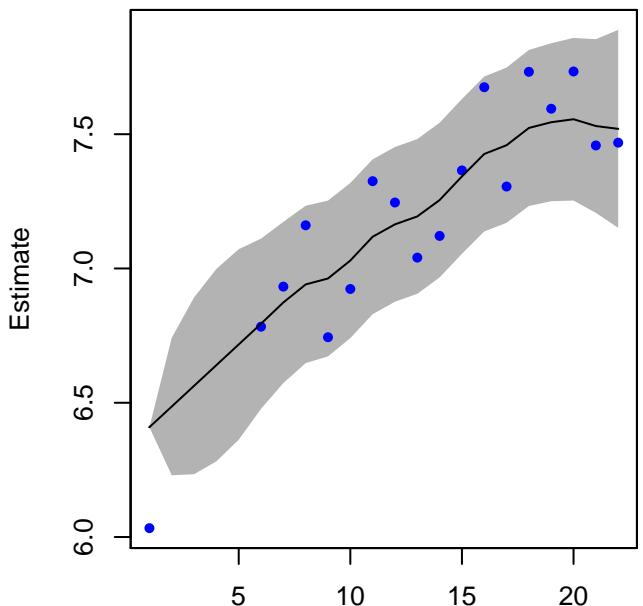
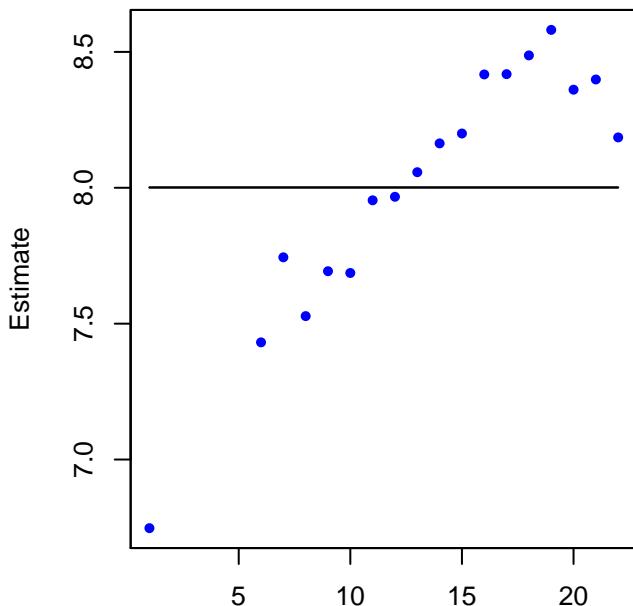
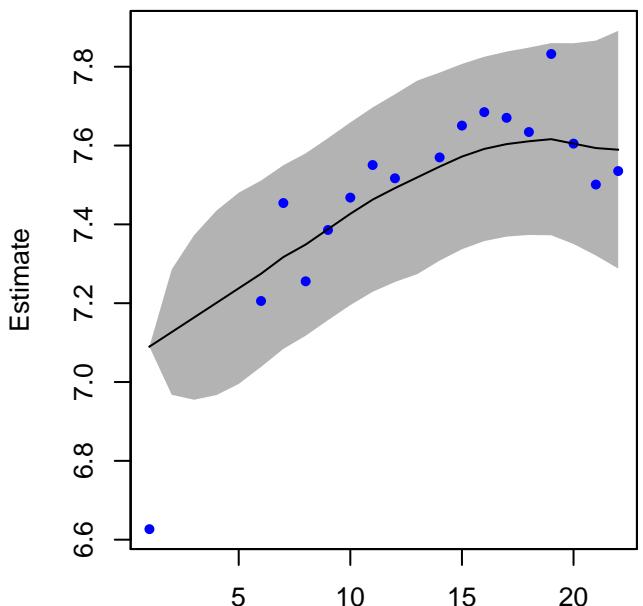


Expected value of Y conditioned on data

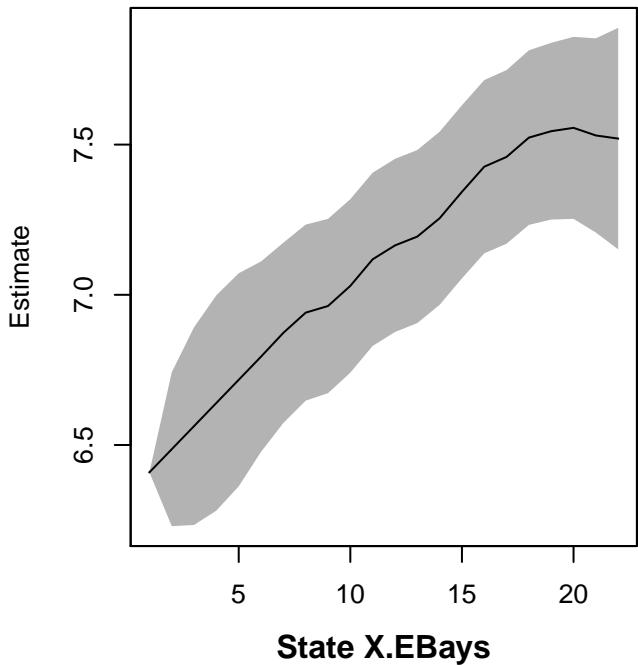


Model innovations residuals ACF

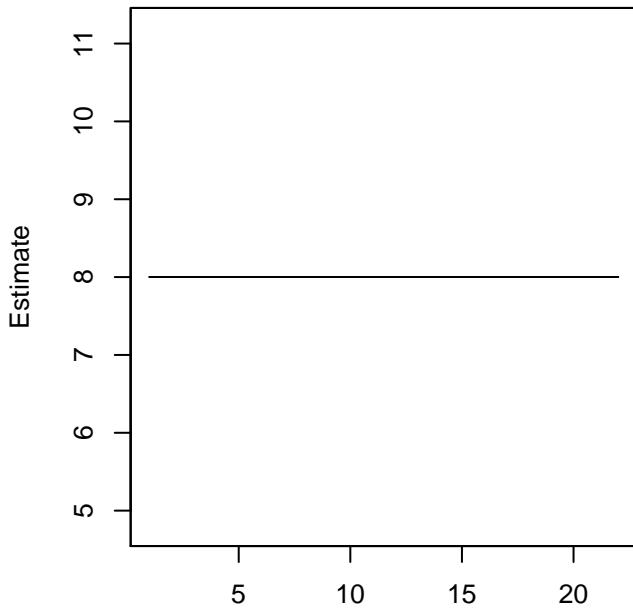


SJF + CI**SJI + CI****EBays + CI**

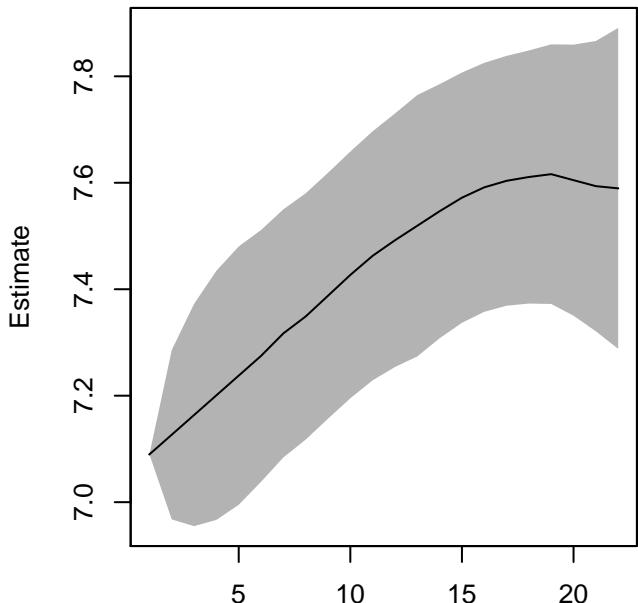
State X.SJF



State X.SJI

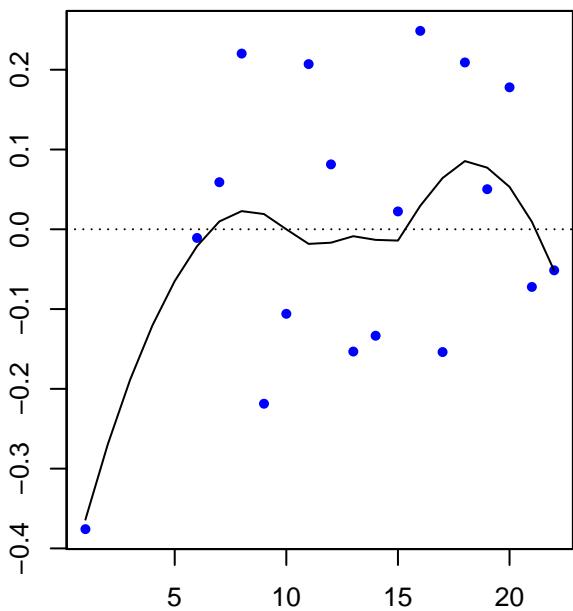


State X.EBays

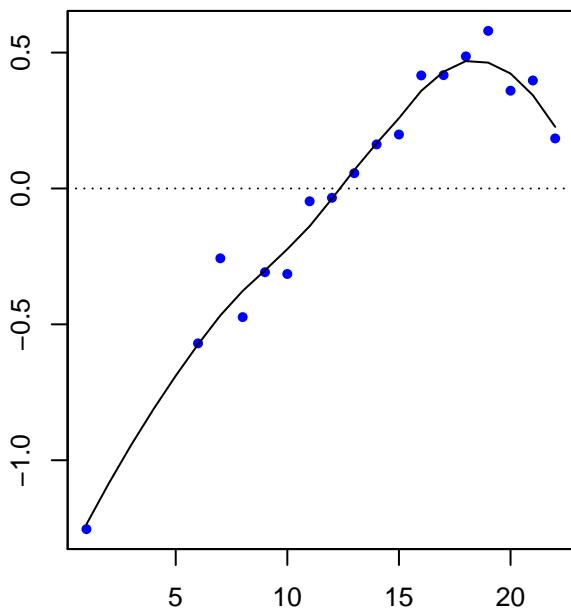


Observation residuals, $y - E[y]$

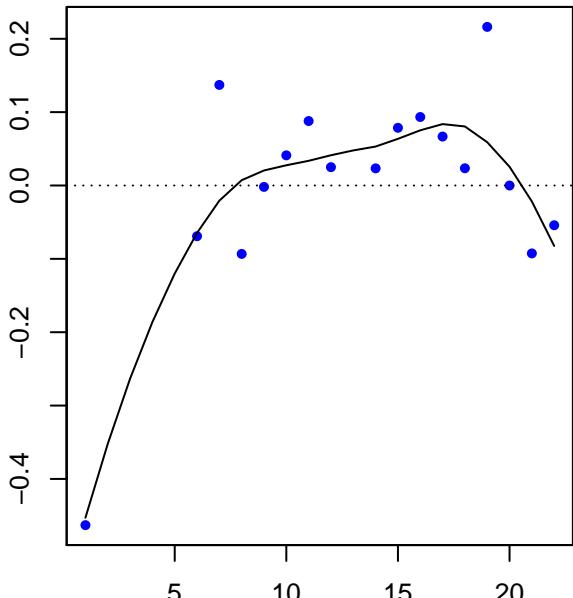
SJF

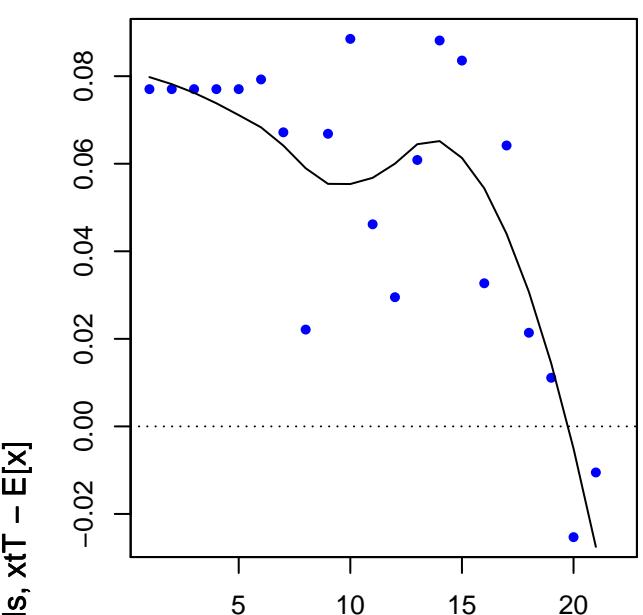
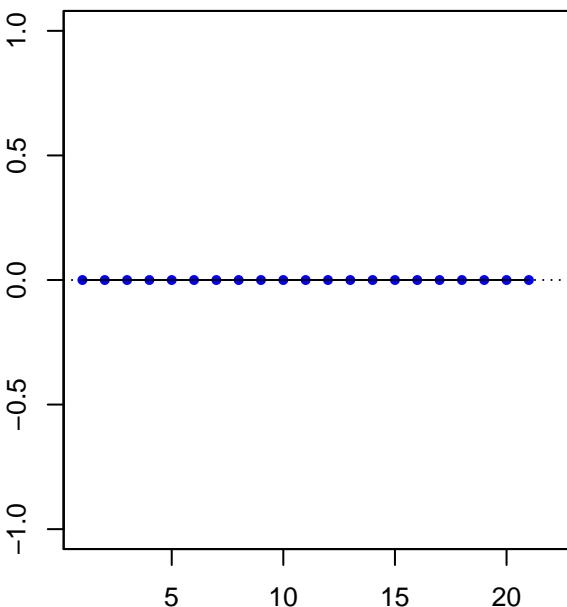
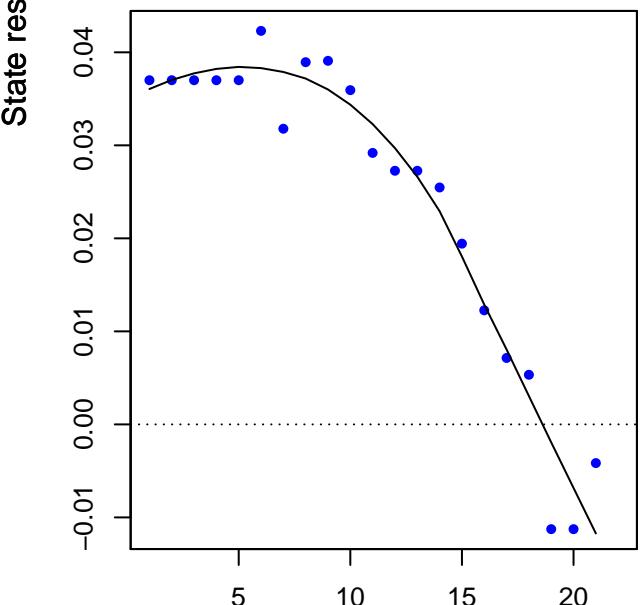


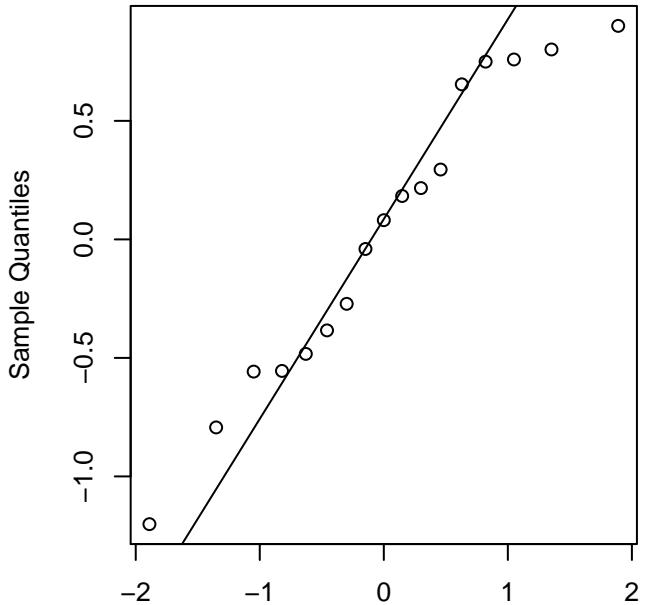
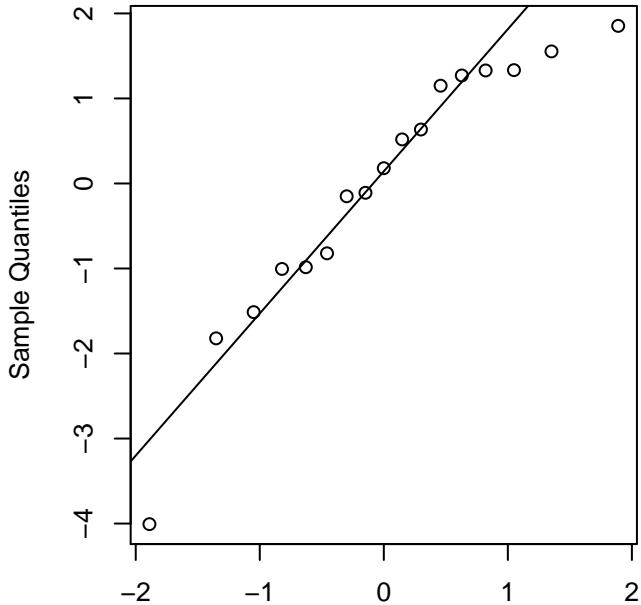
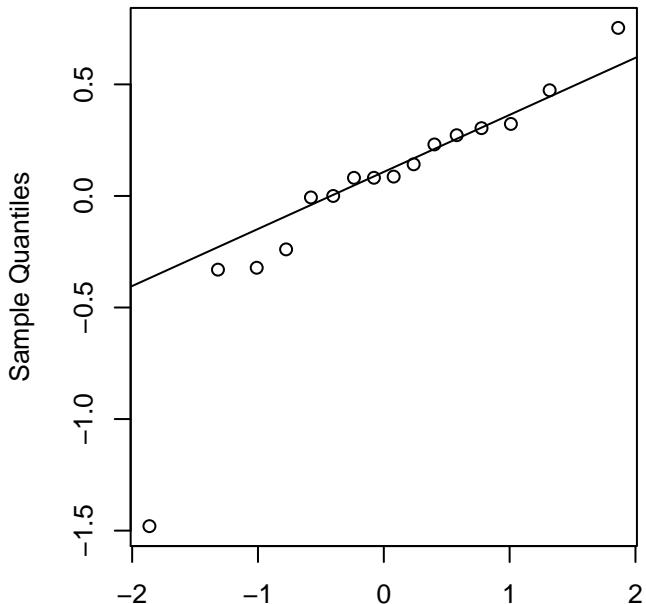
SJI

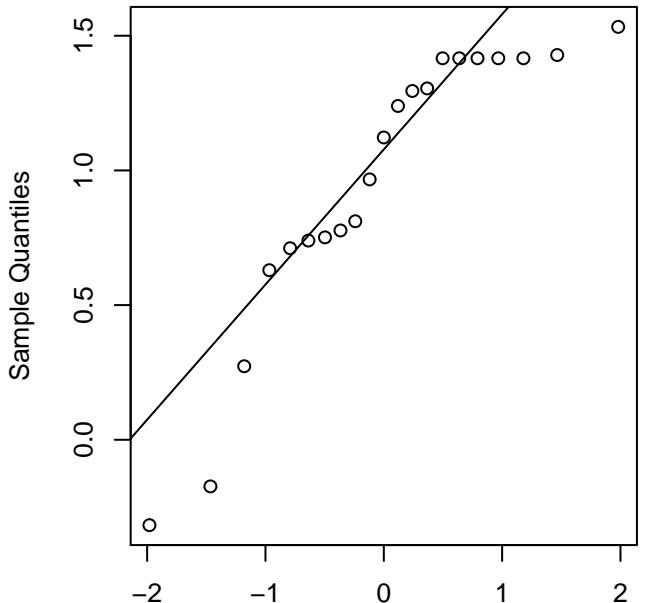
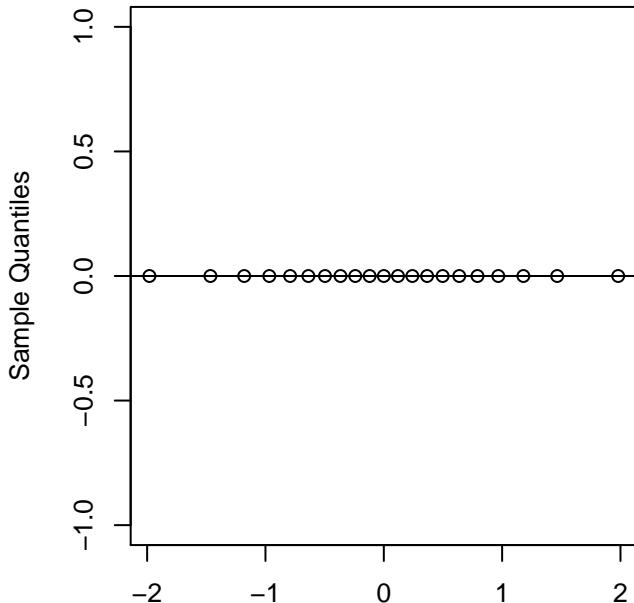
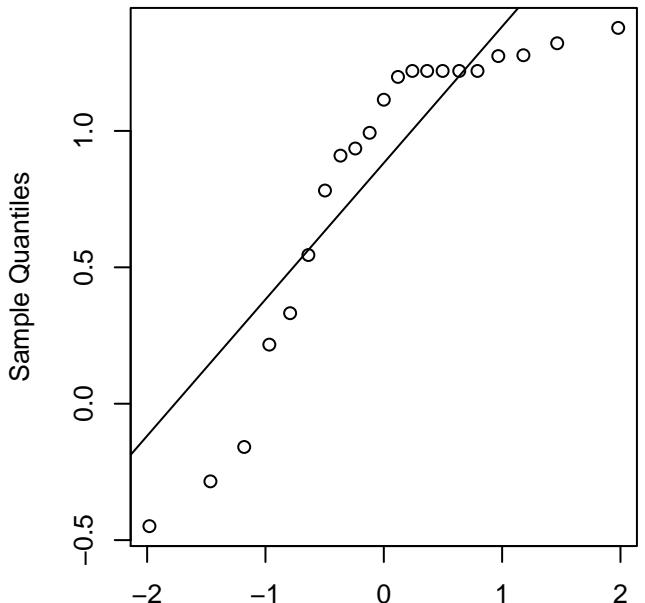


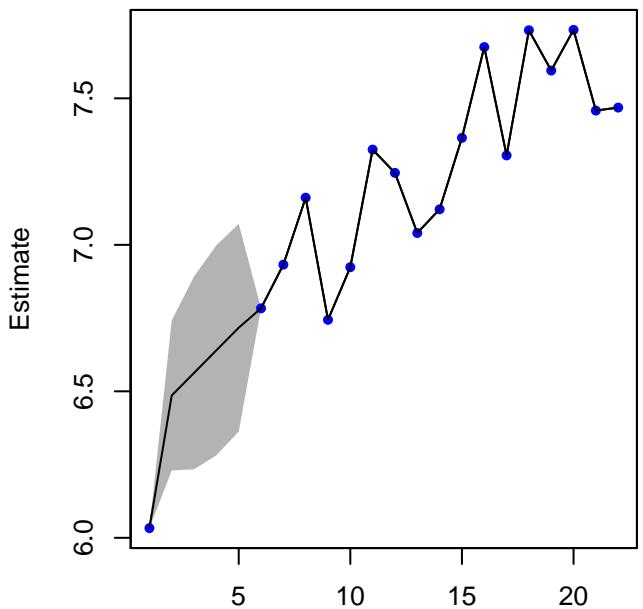
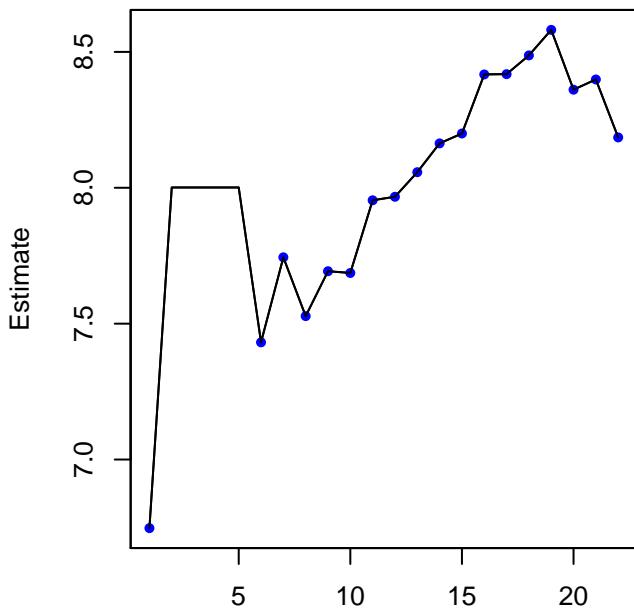
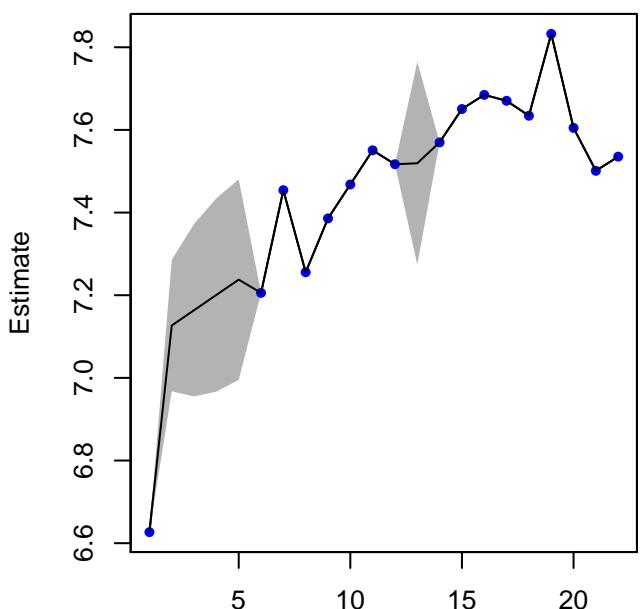
EBays

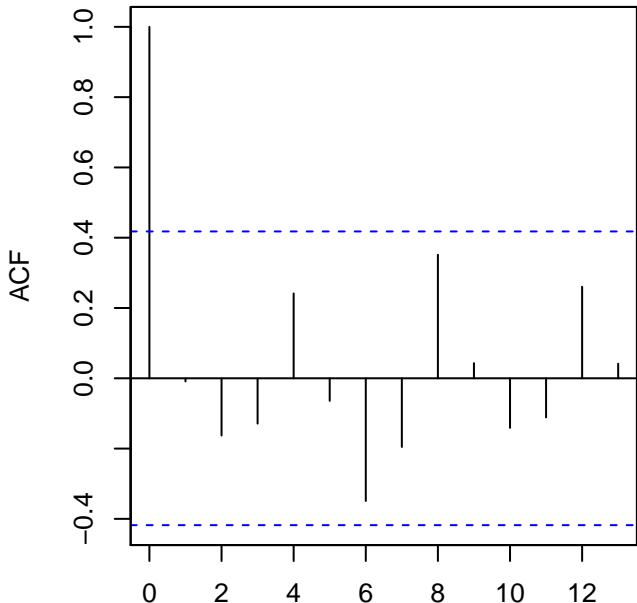
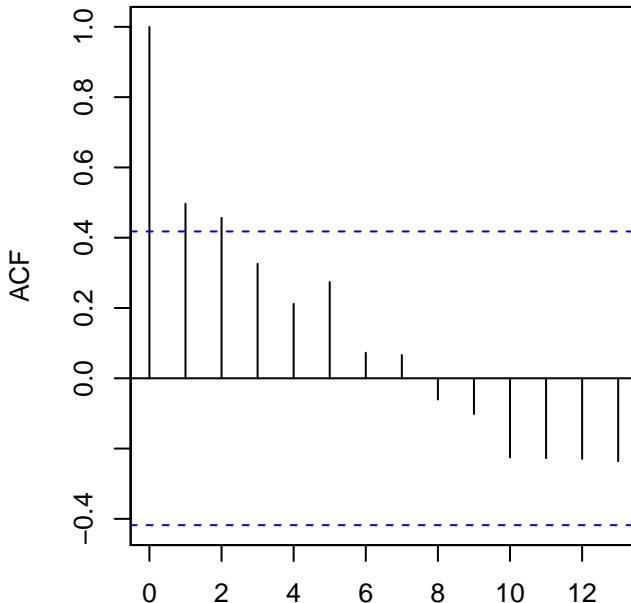
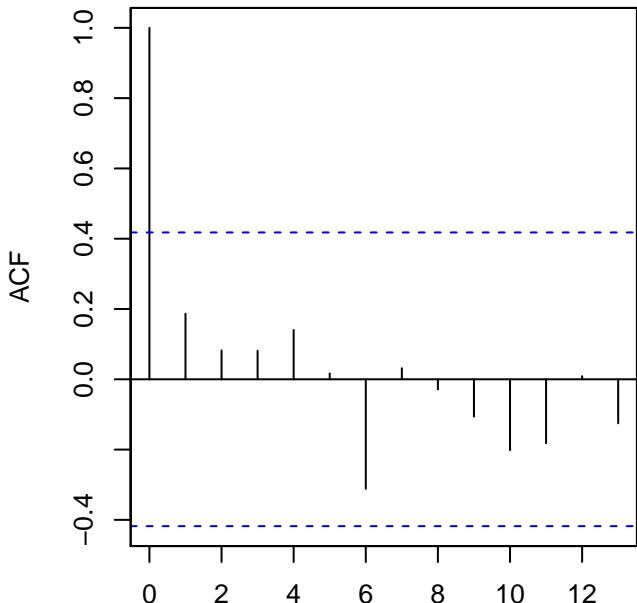


State X.SJF**State X.SJI****State X.EBays**

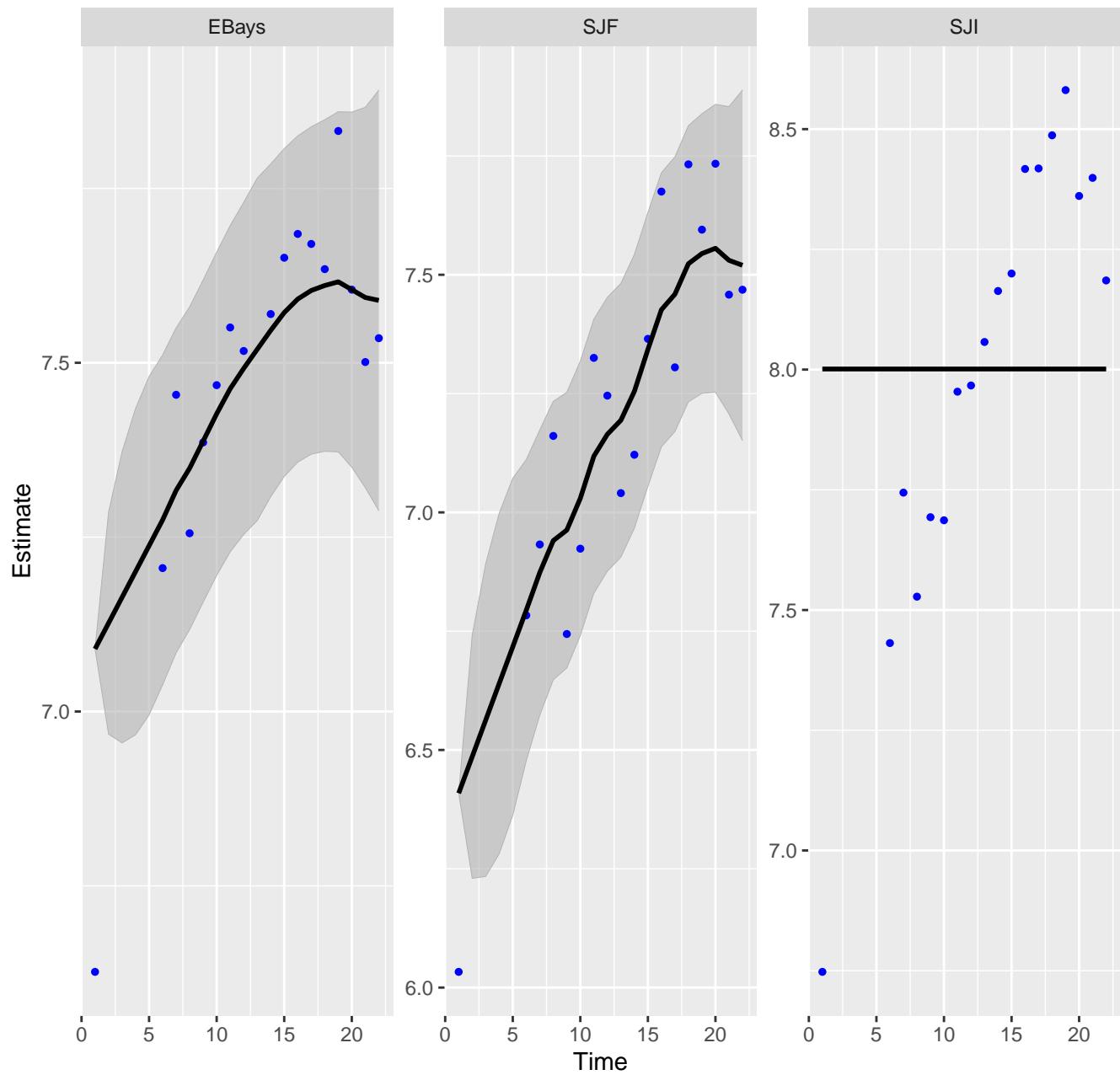
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

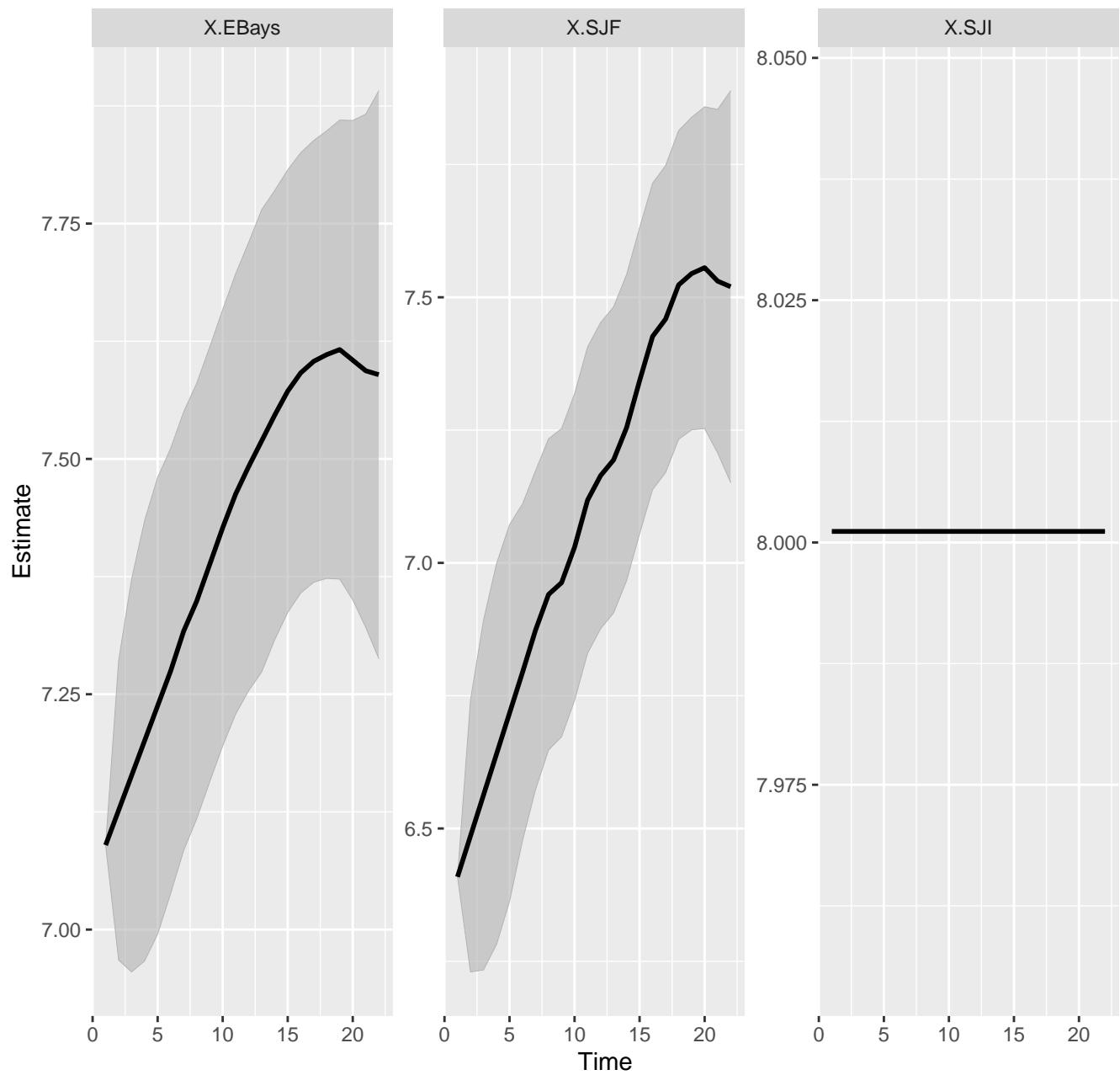
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

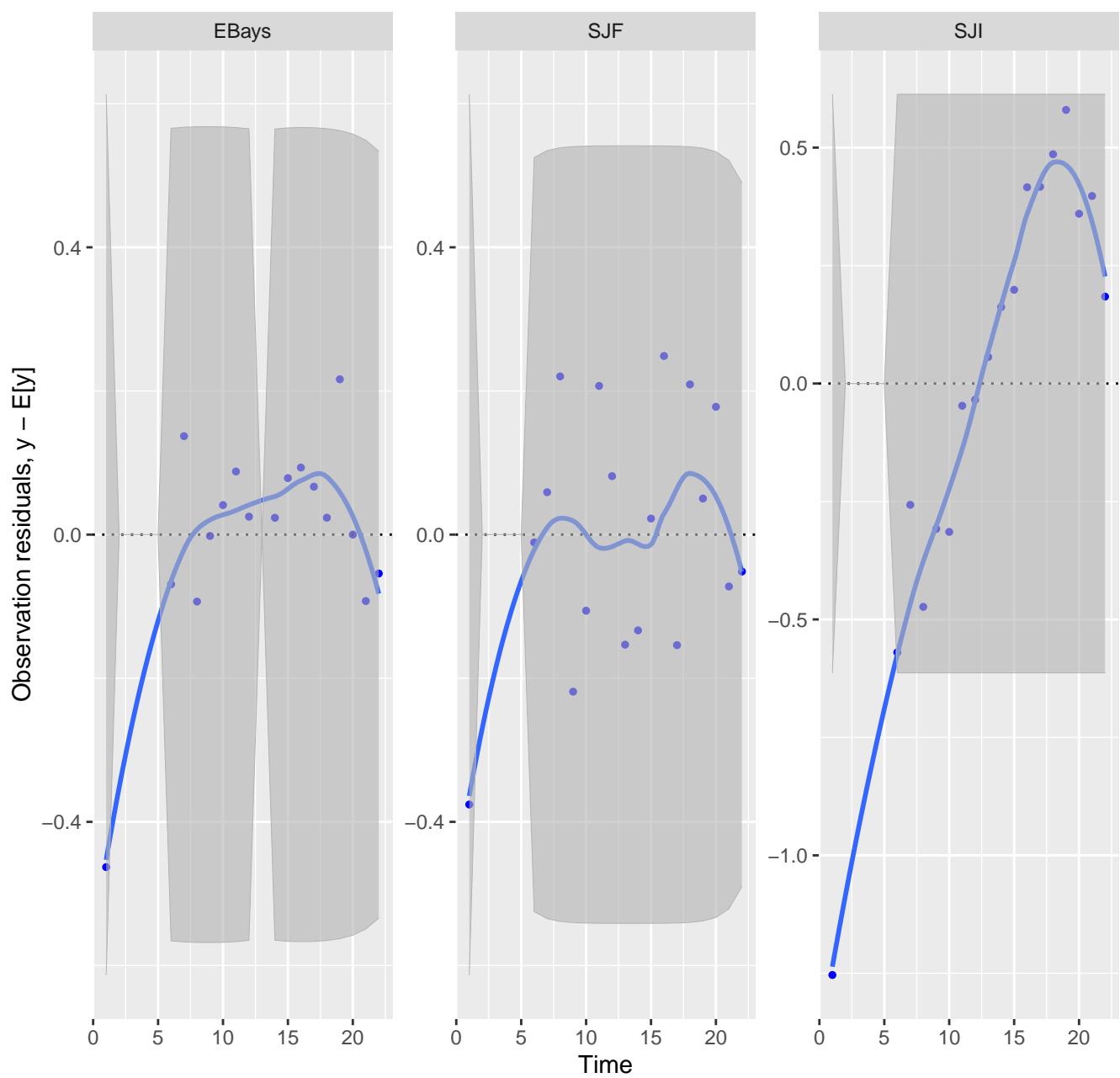
Model fitted Y + CI



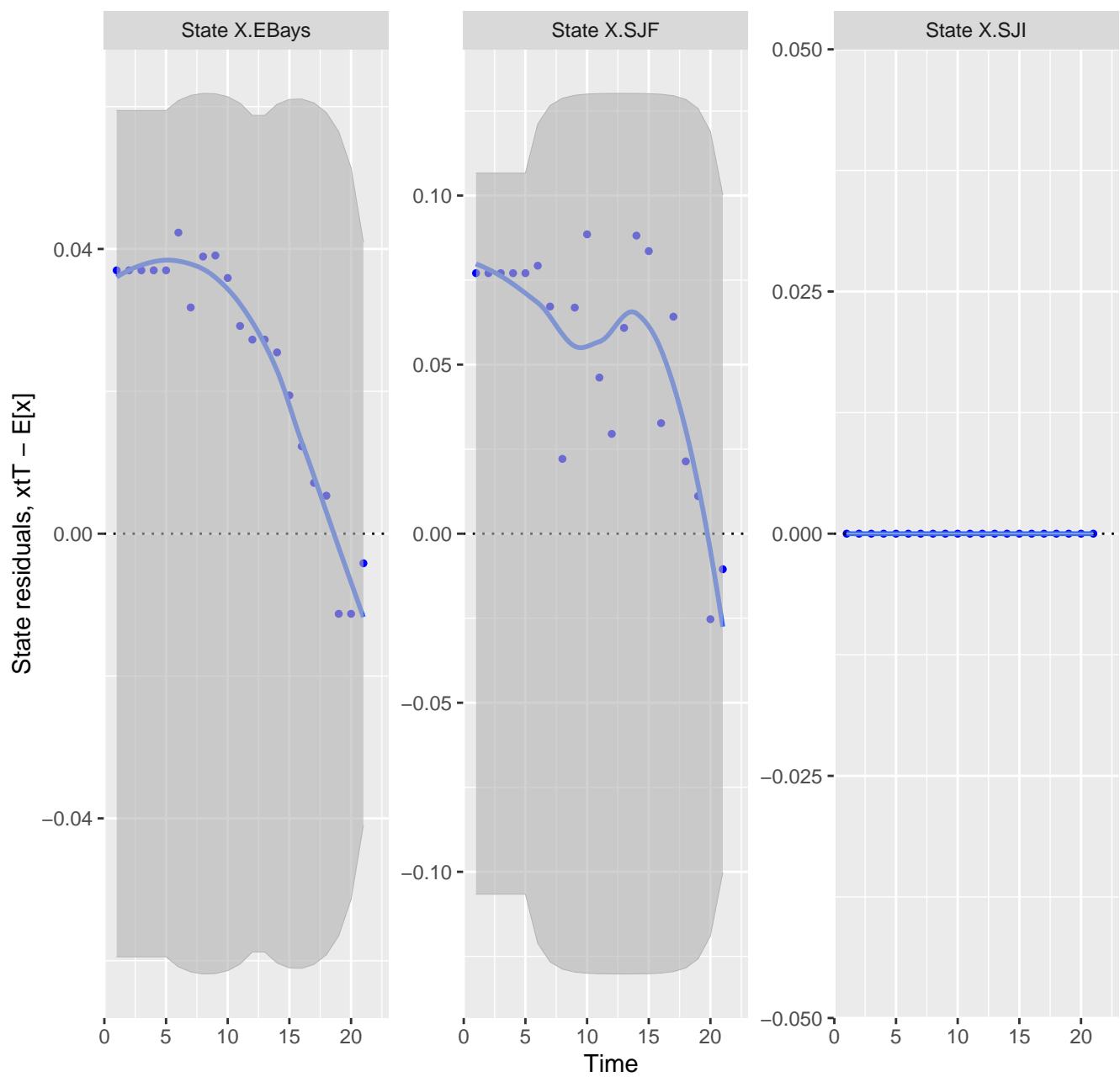
States



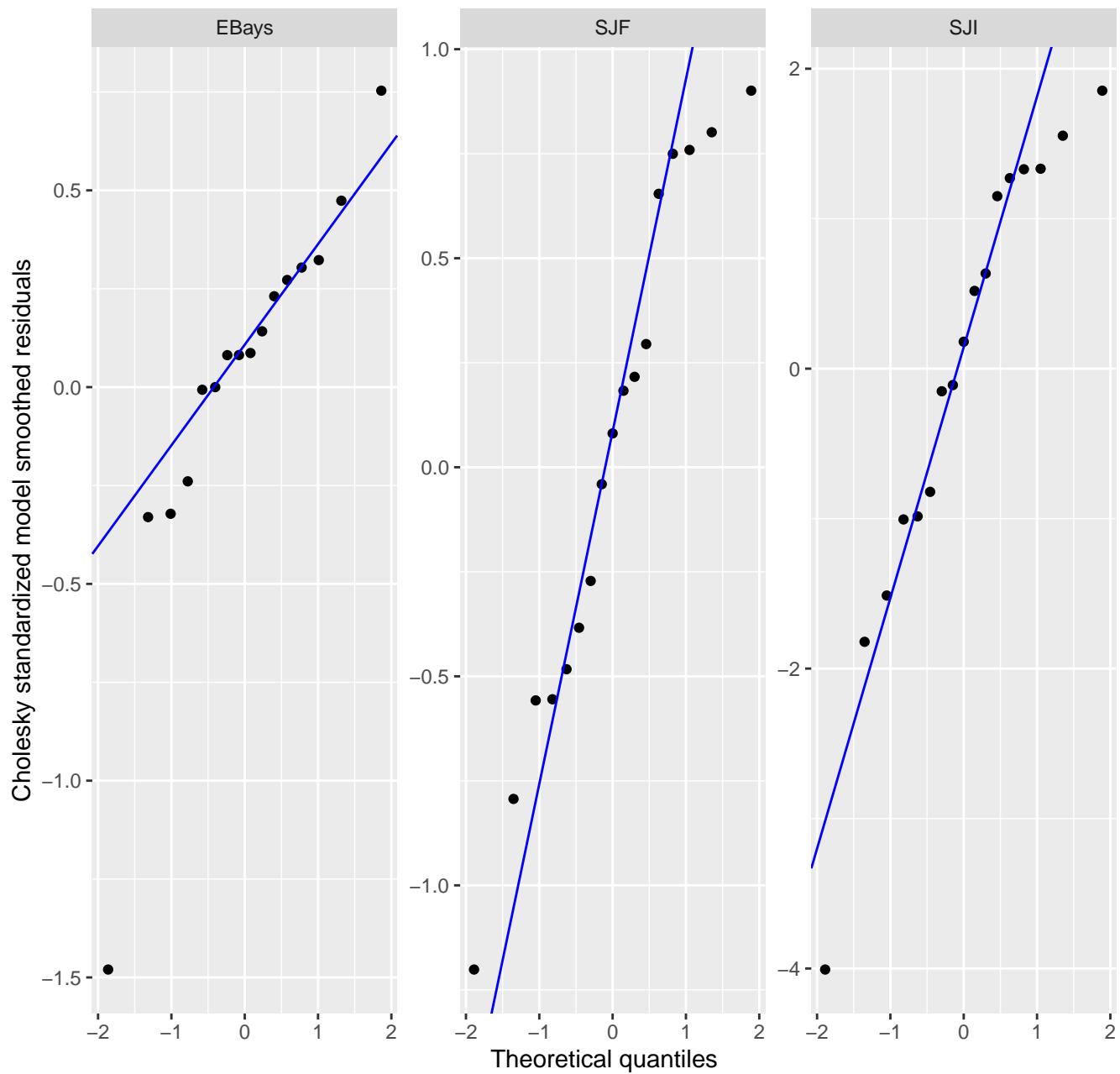
Model residuals



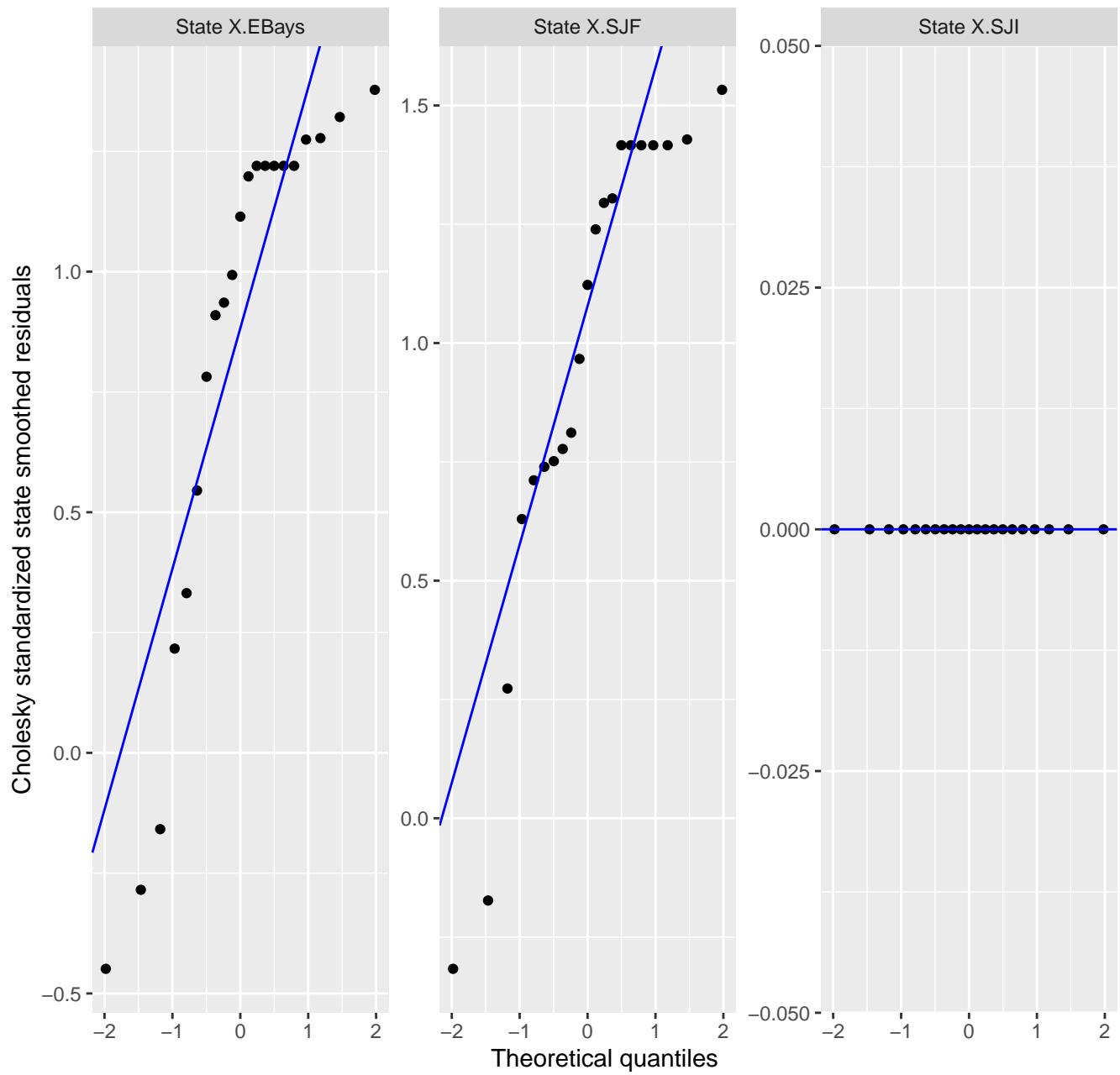
State residuals



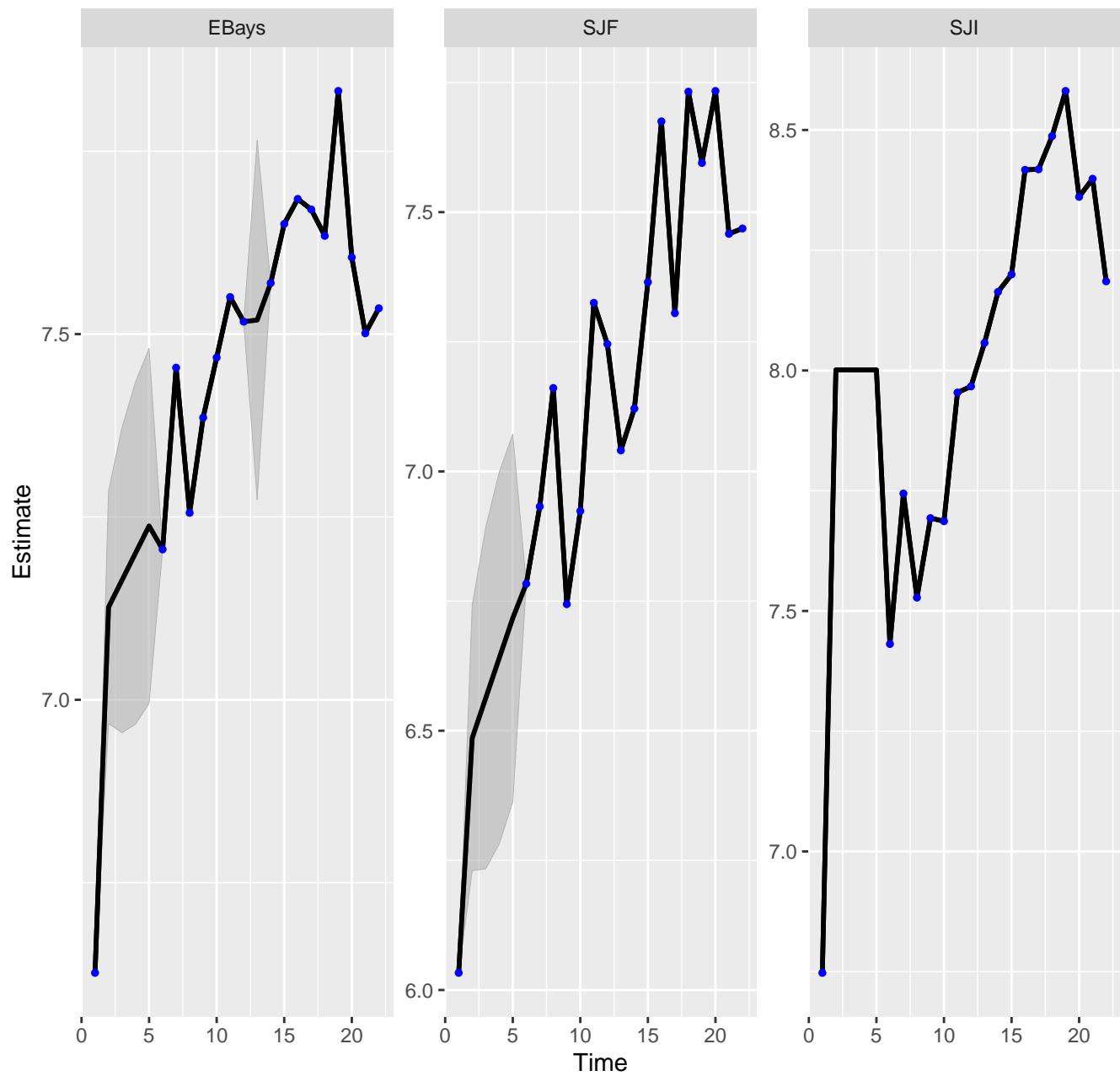
Model residuals normality test



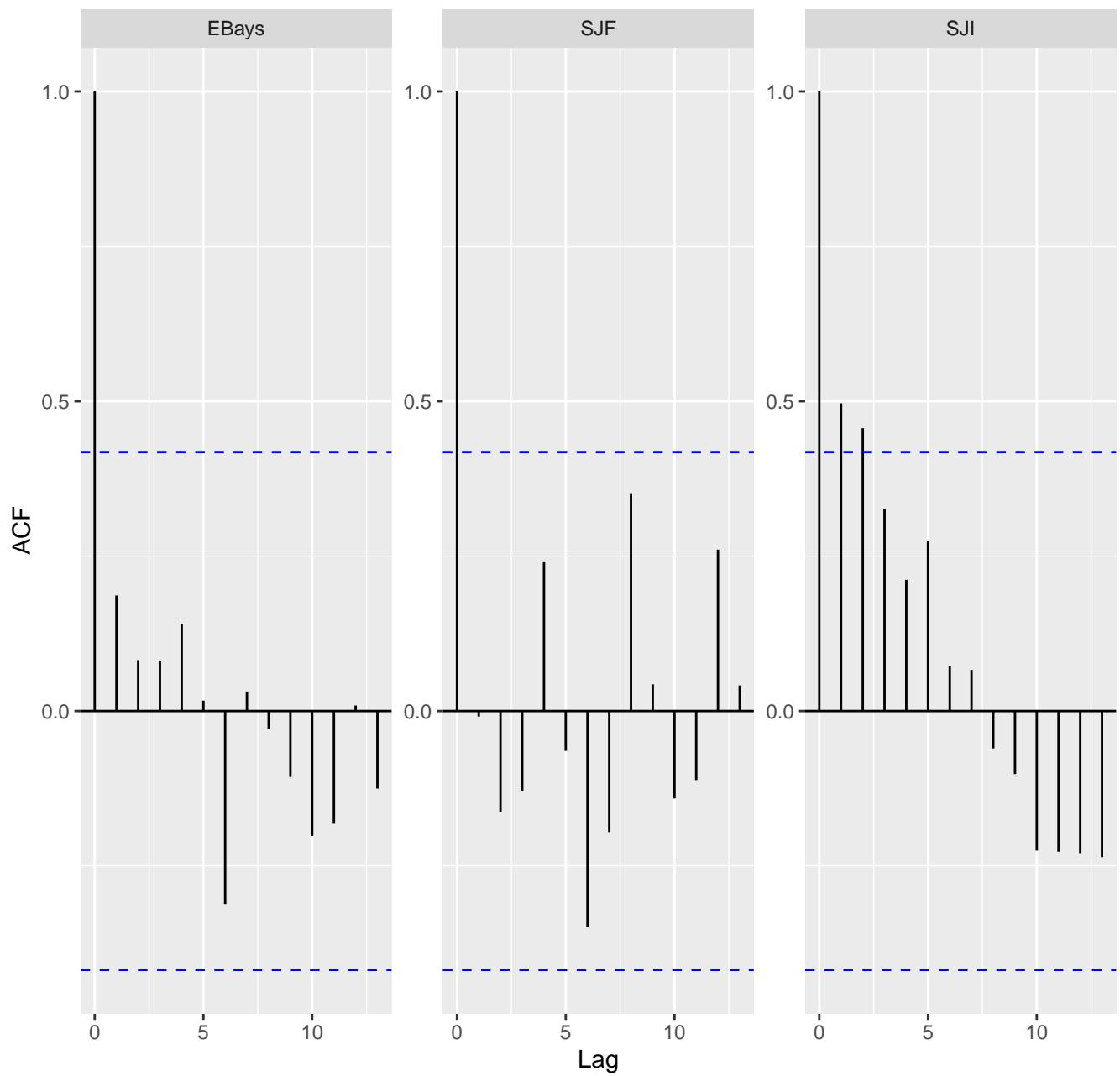
State residuals normality test

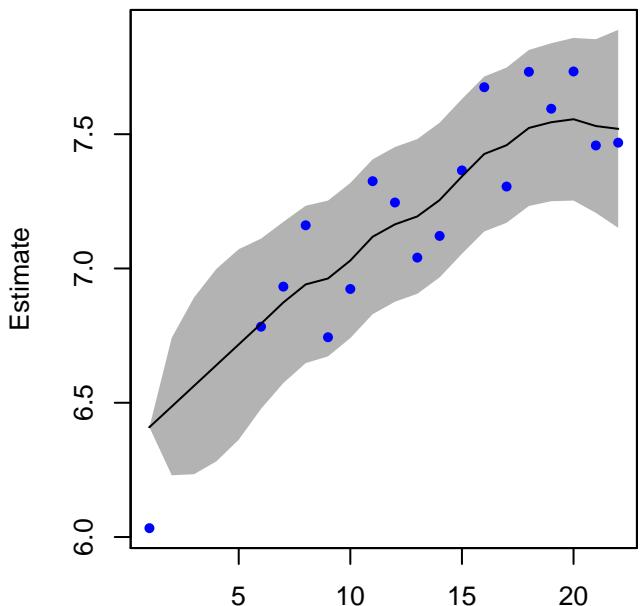
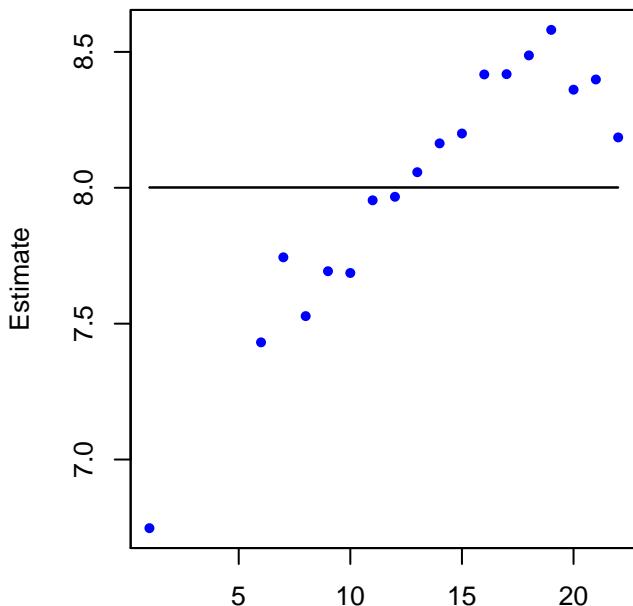
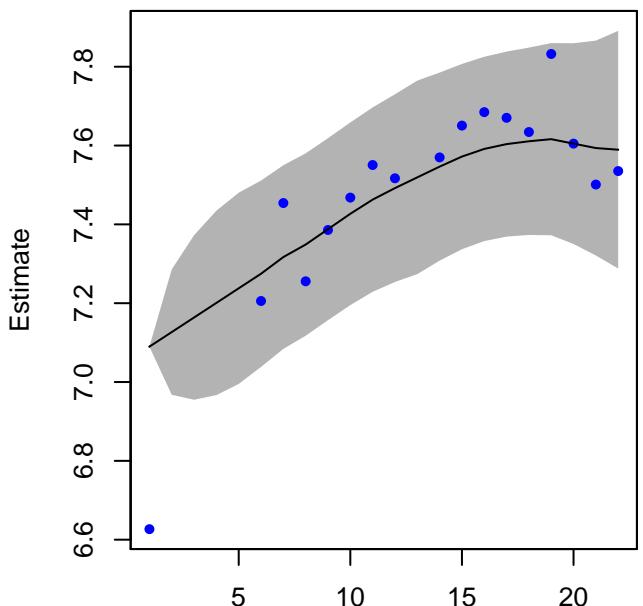


Expected value of Y conditioned on data

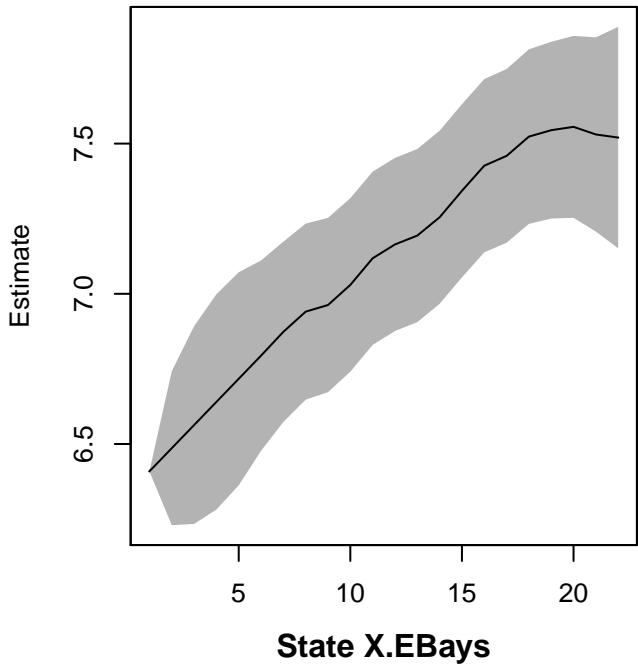


Model innovations residuals ACF

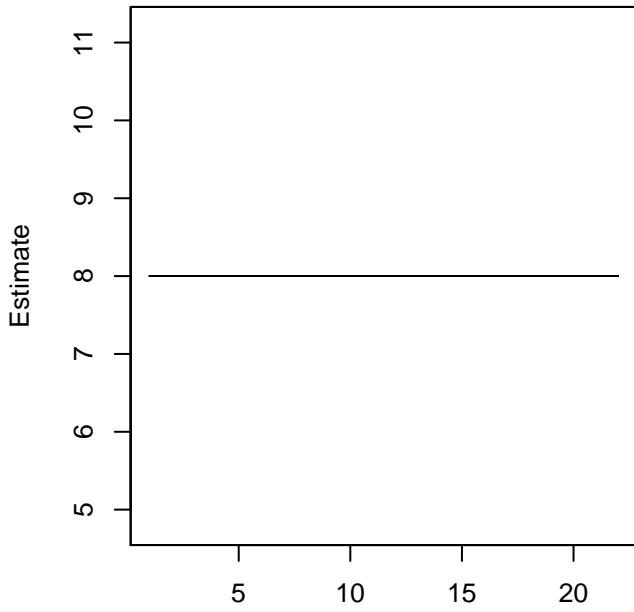


SJF + CI**SJI + CI****EBays + CI**

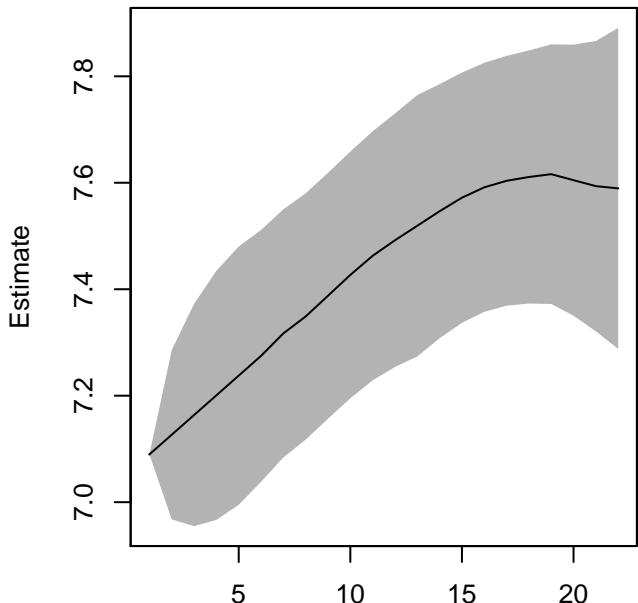
State X.SJF



State X.SJI

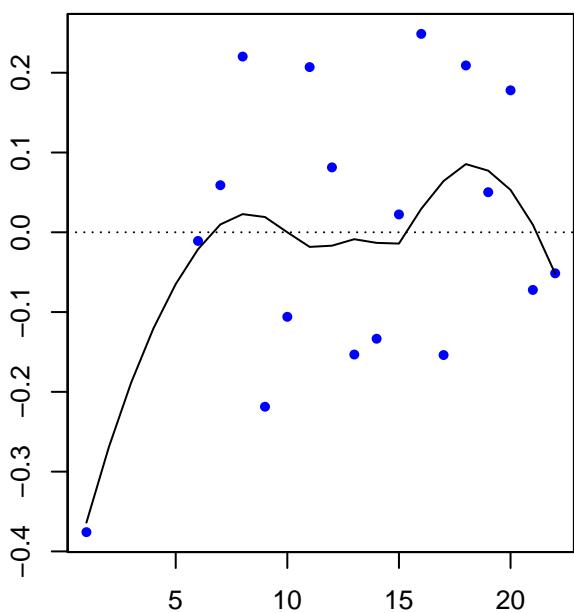


State X.EBays

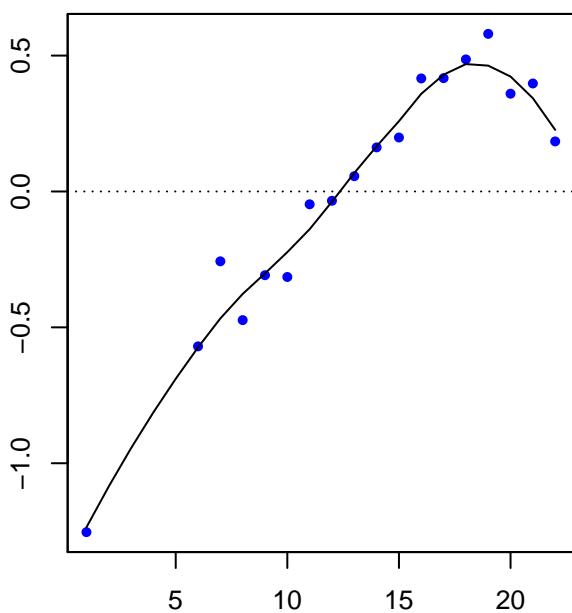


Observation residuals, $y - E[y]$

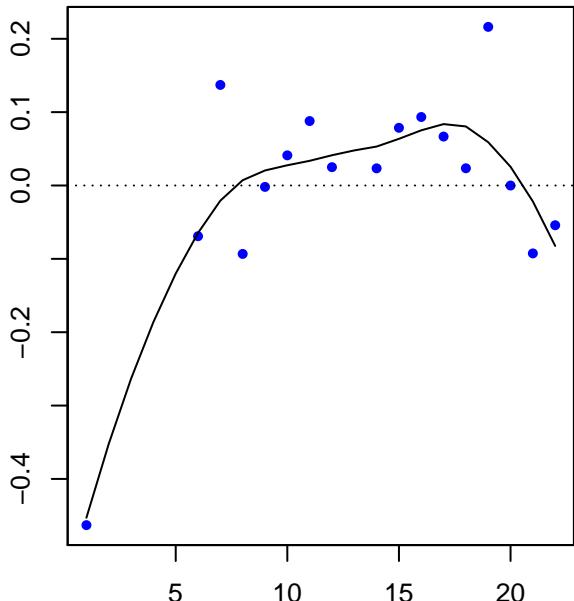
SJF



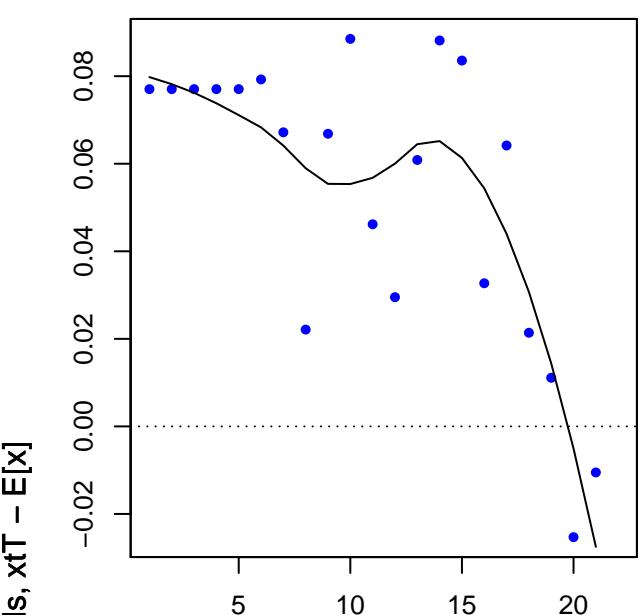
SJI



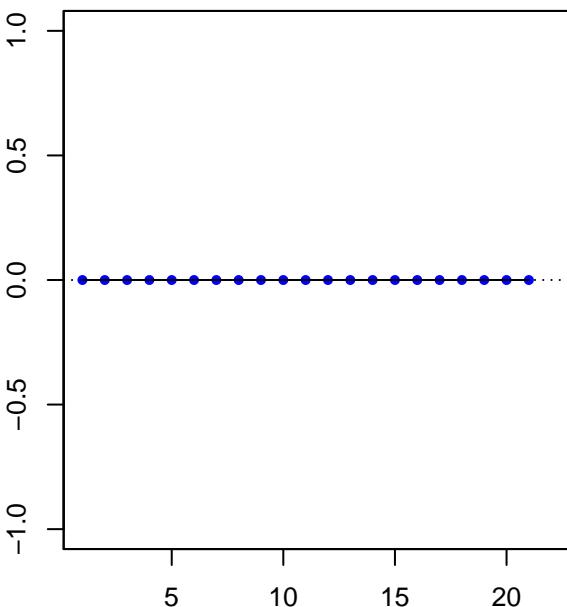
EBays



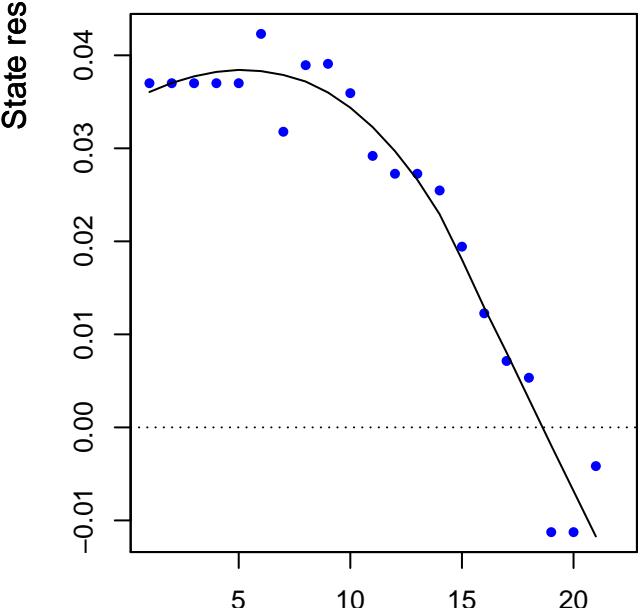
State X.SJF

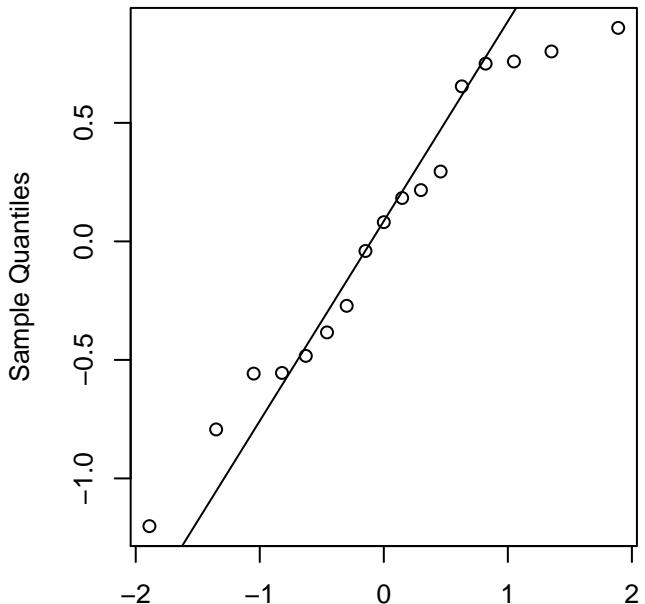
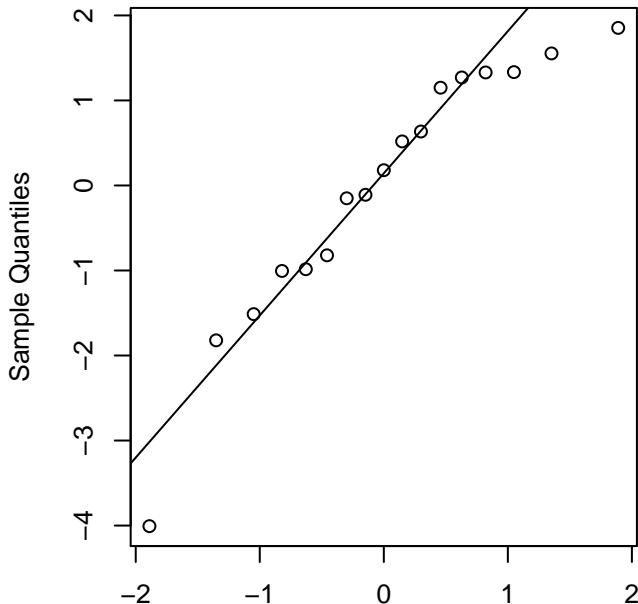
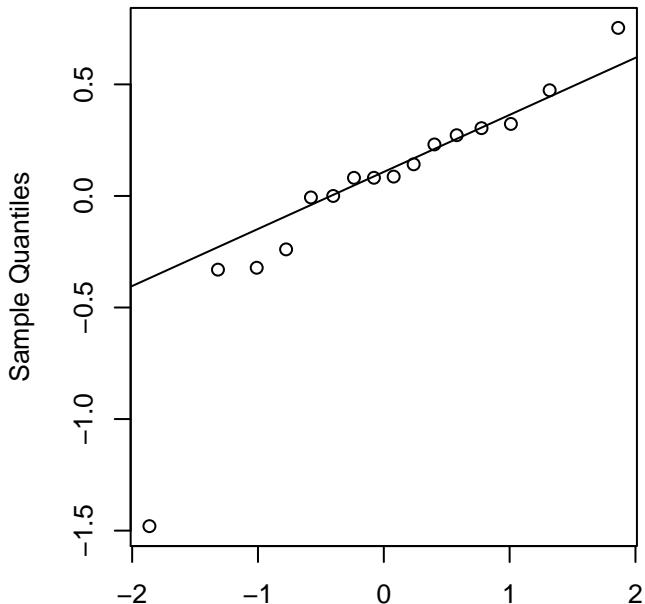


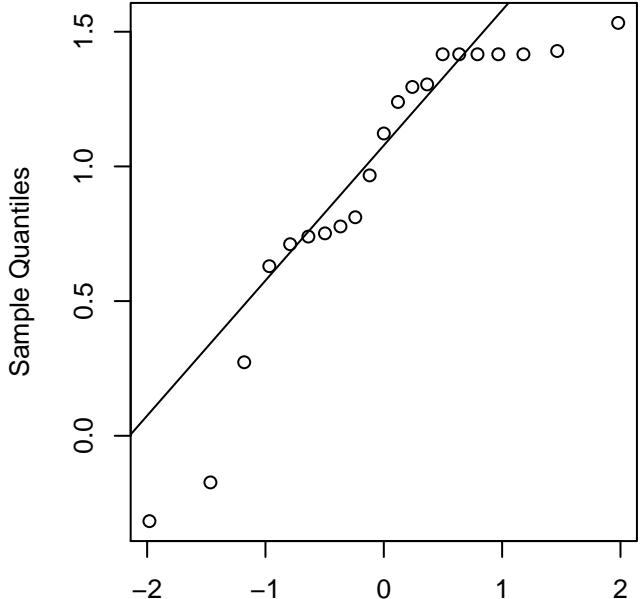
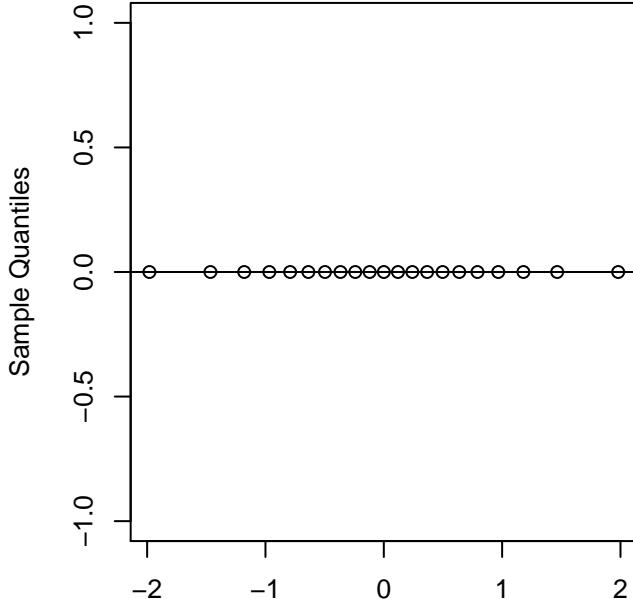
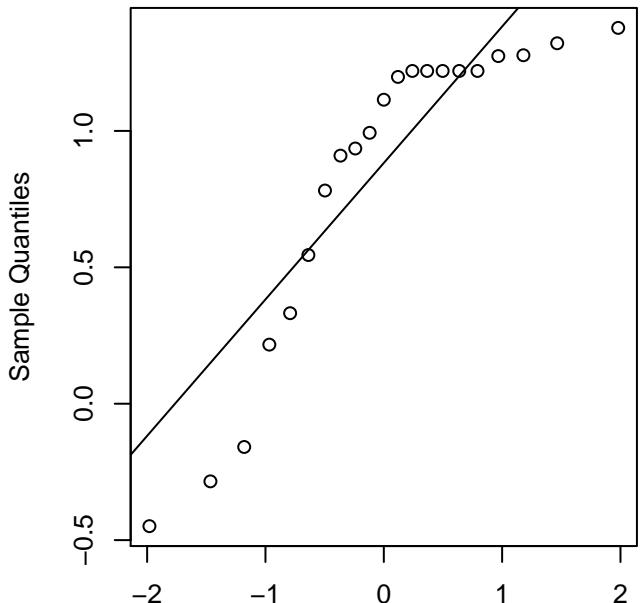
State X.SJI

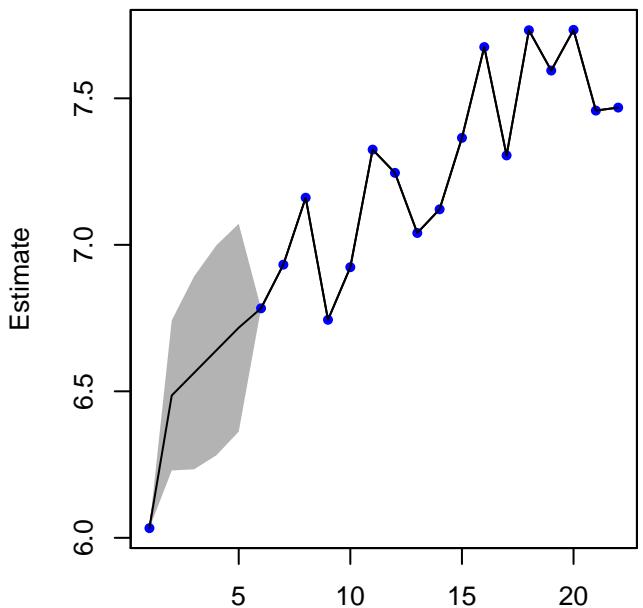
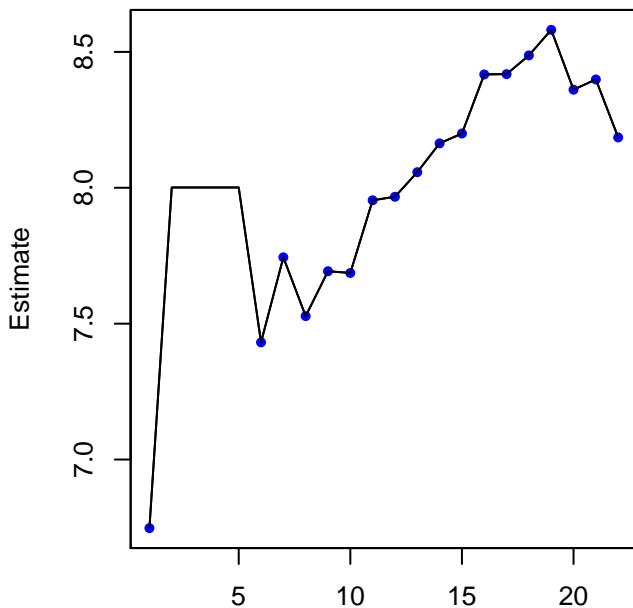
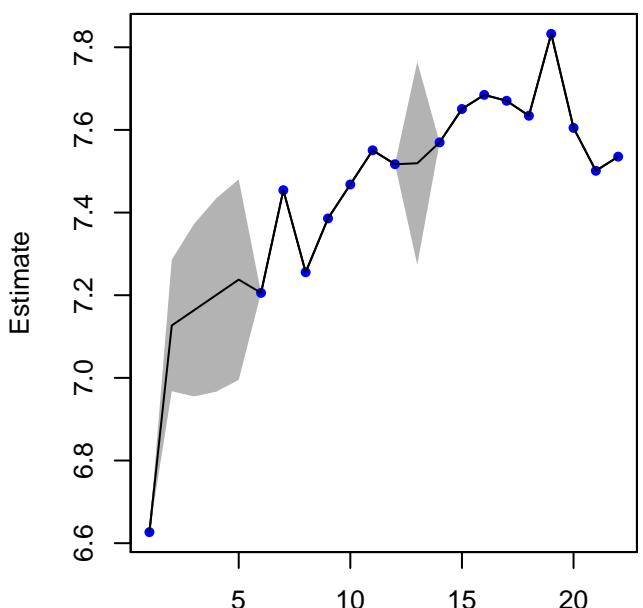


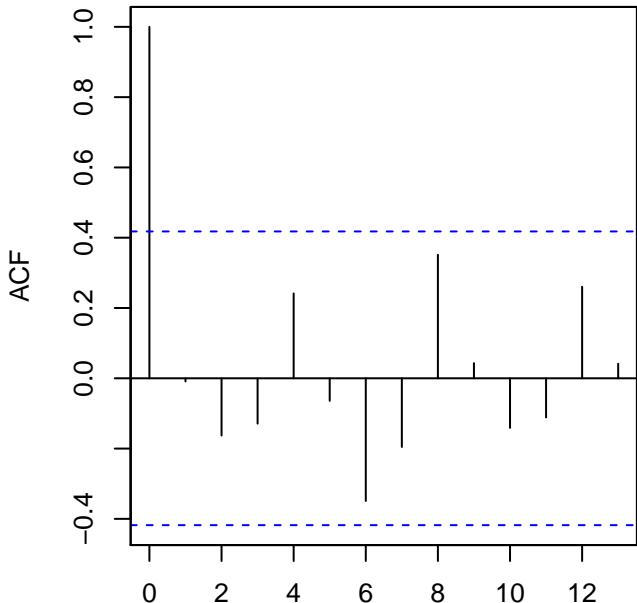
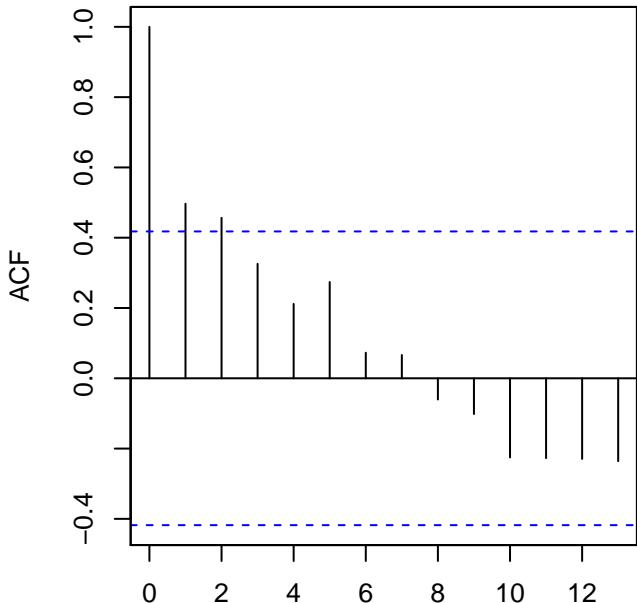
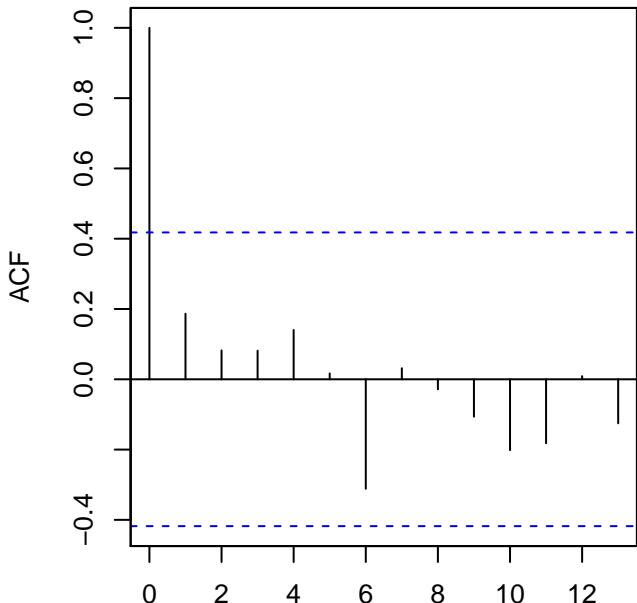
State X.EBays



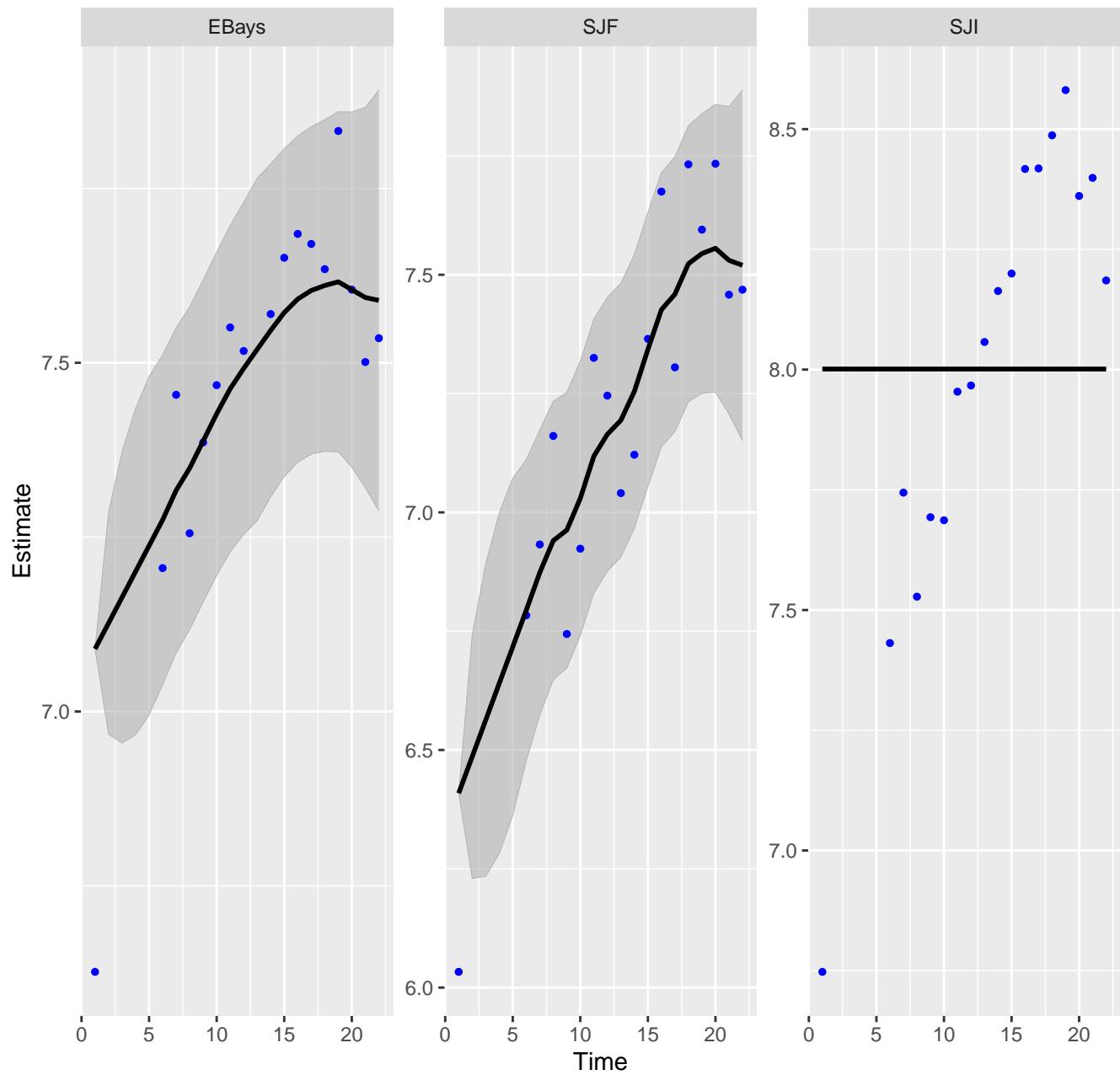
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

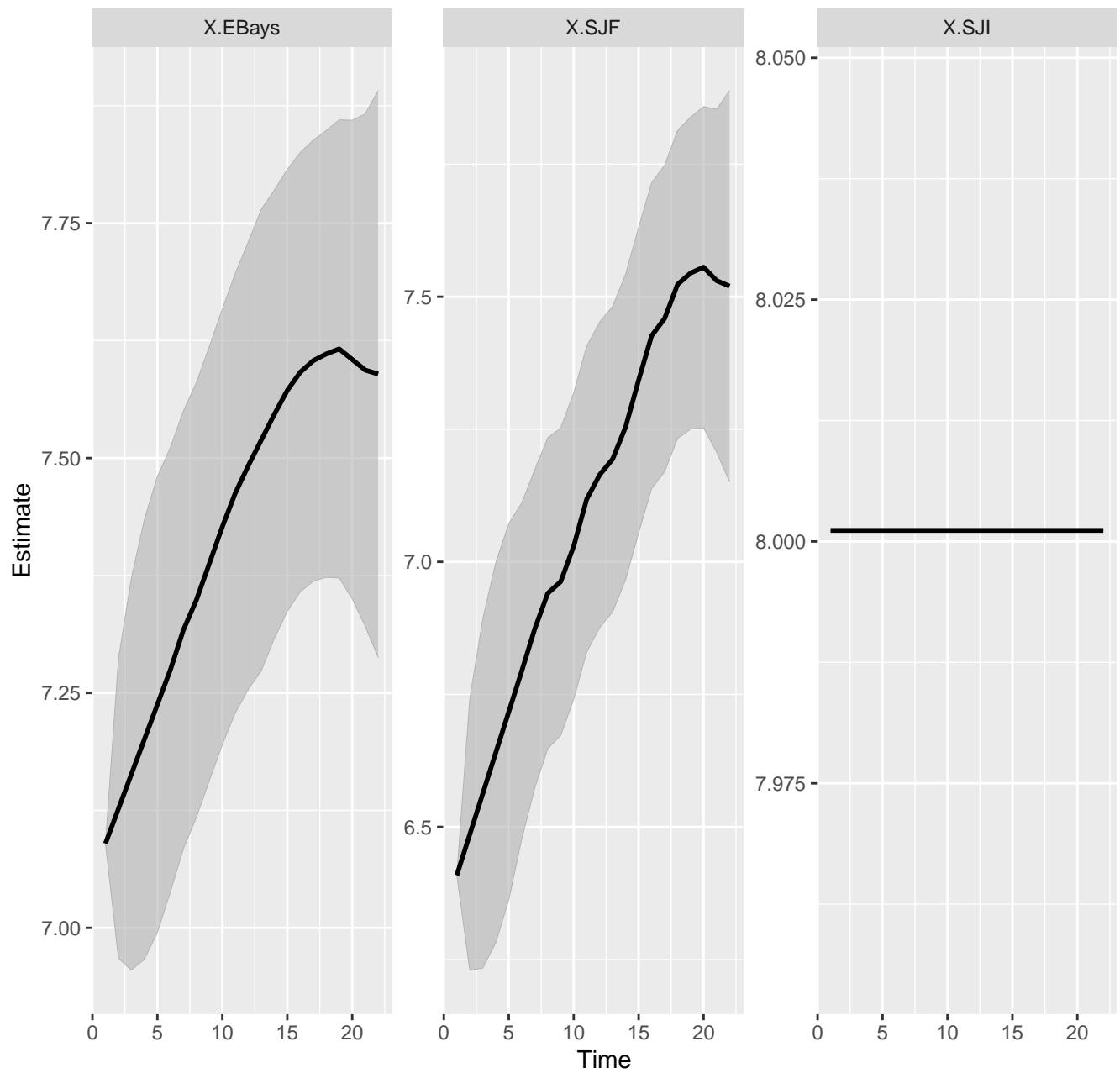
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

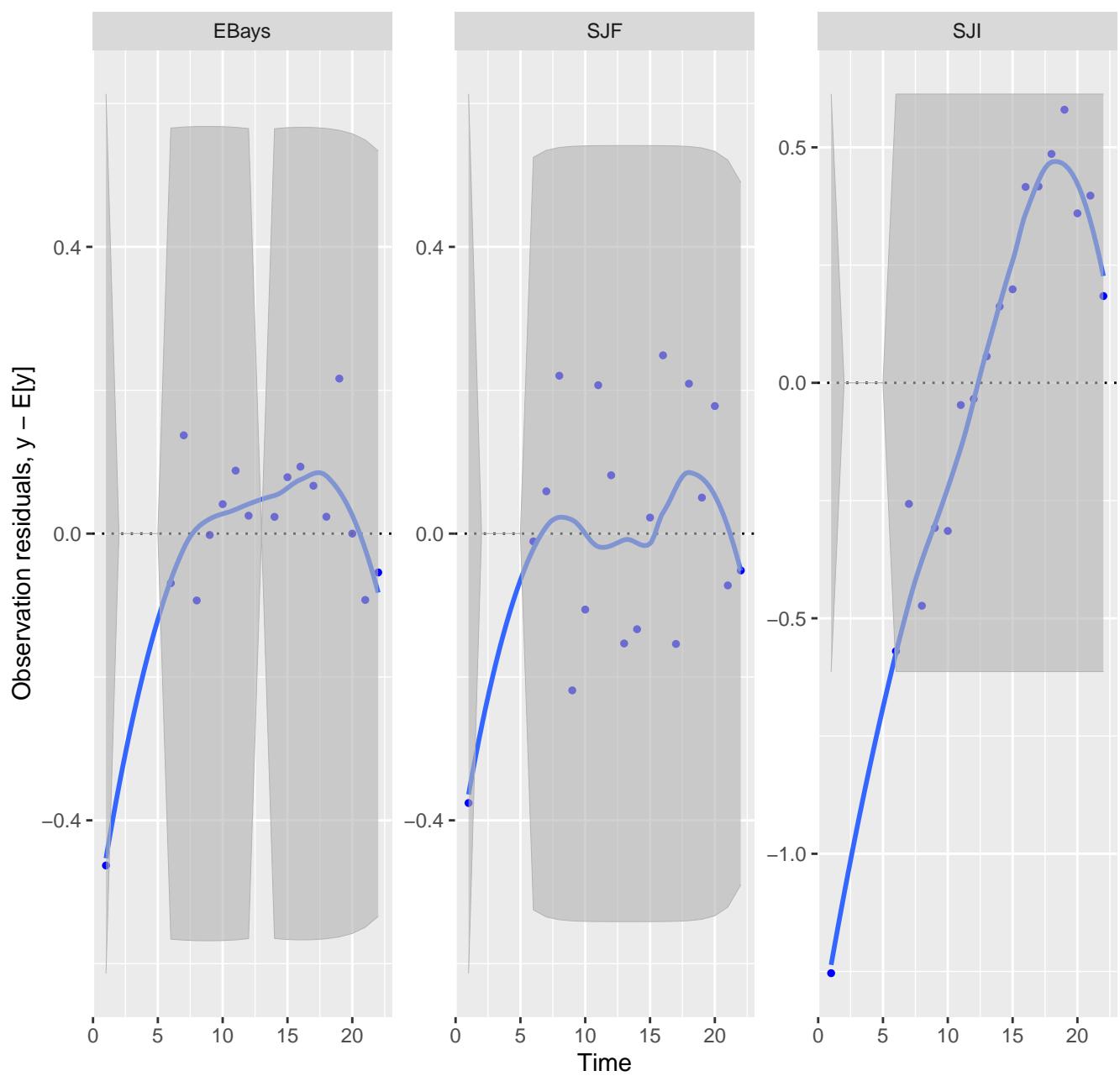
Model fitted Y + CI



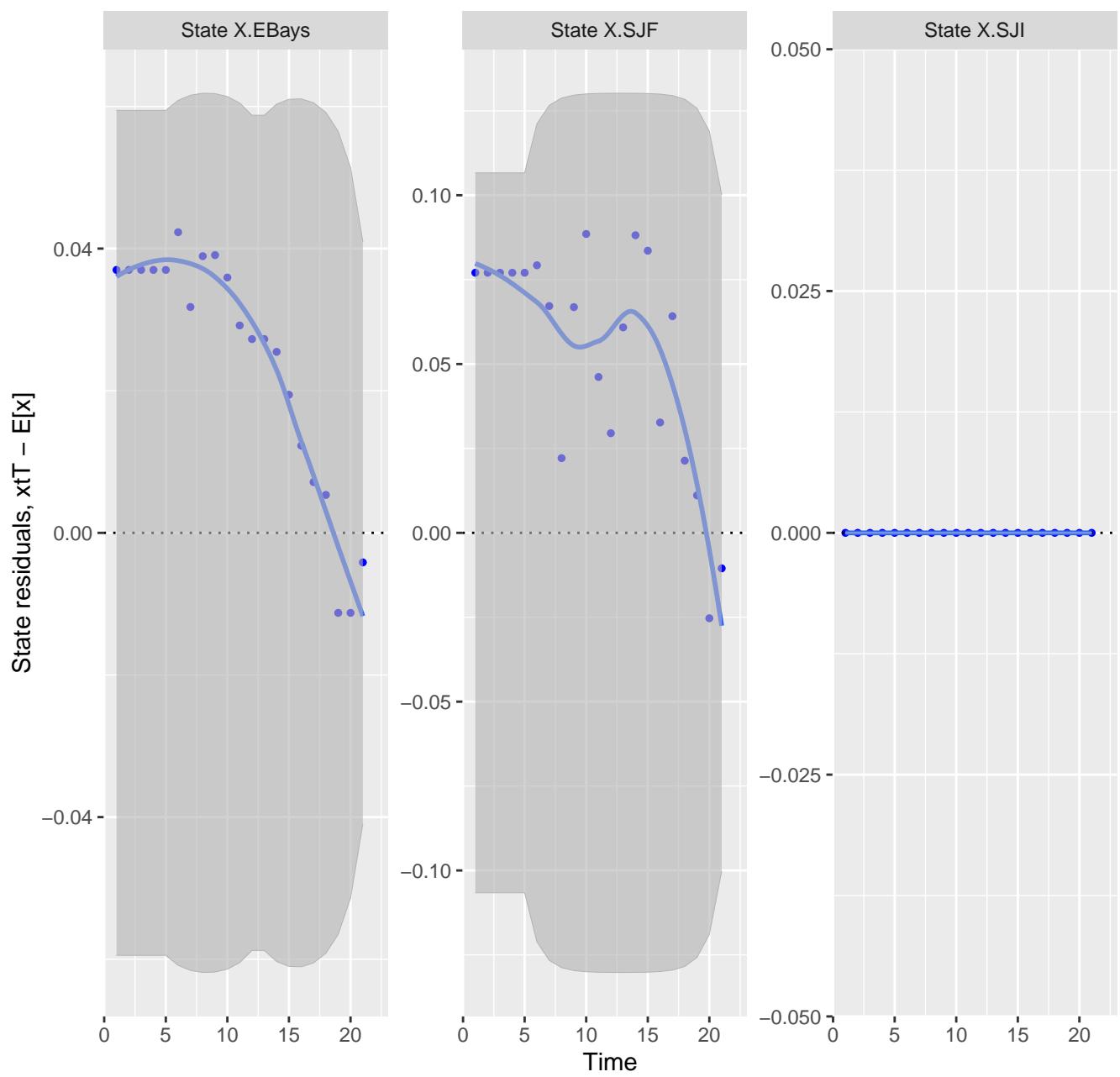
States



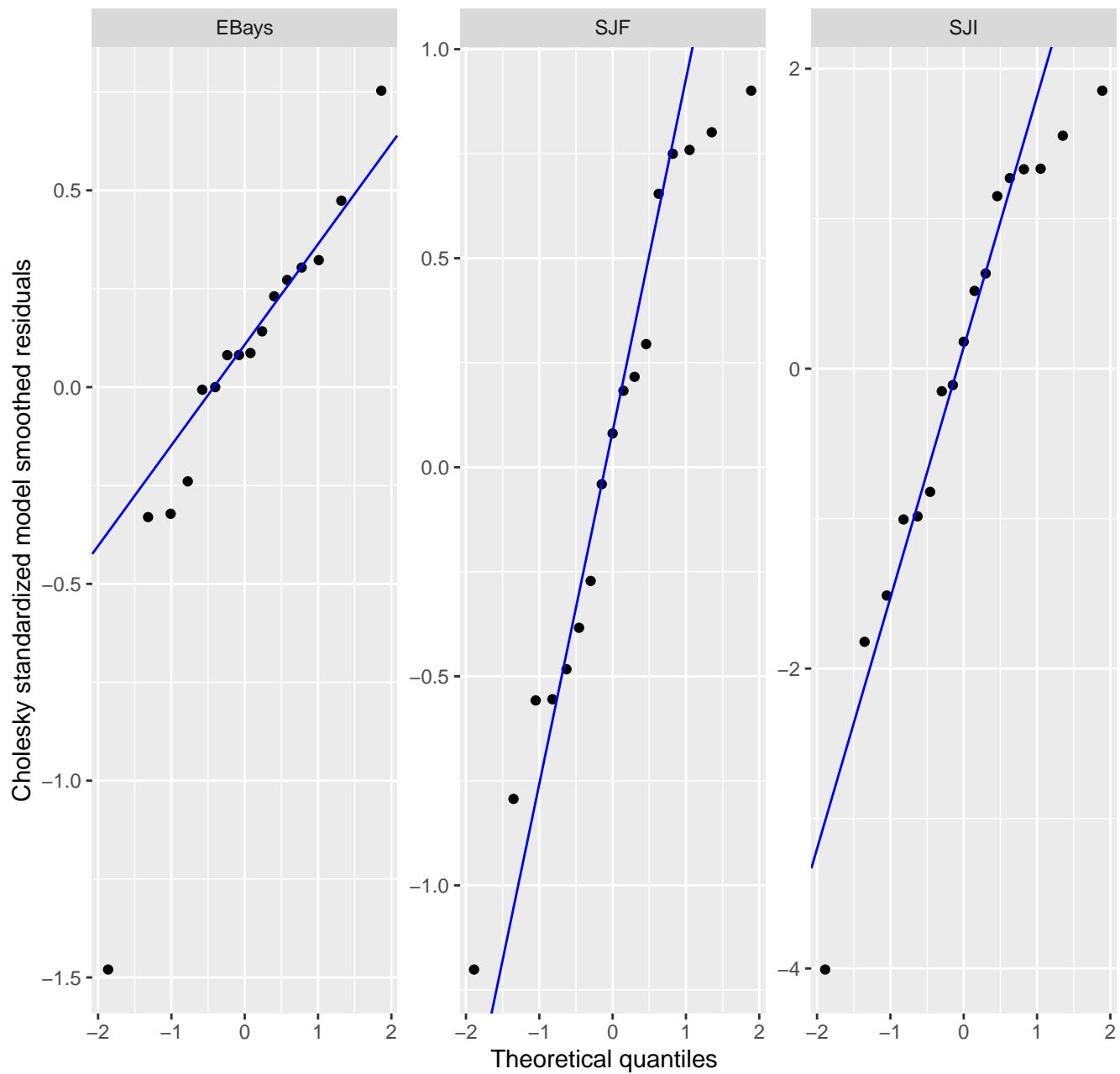
Model residuals



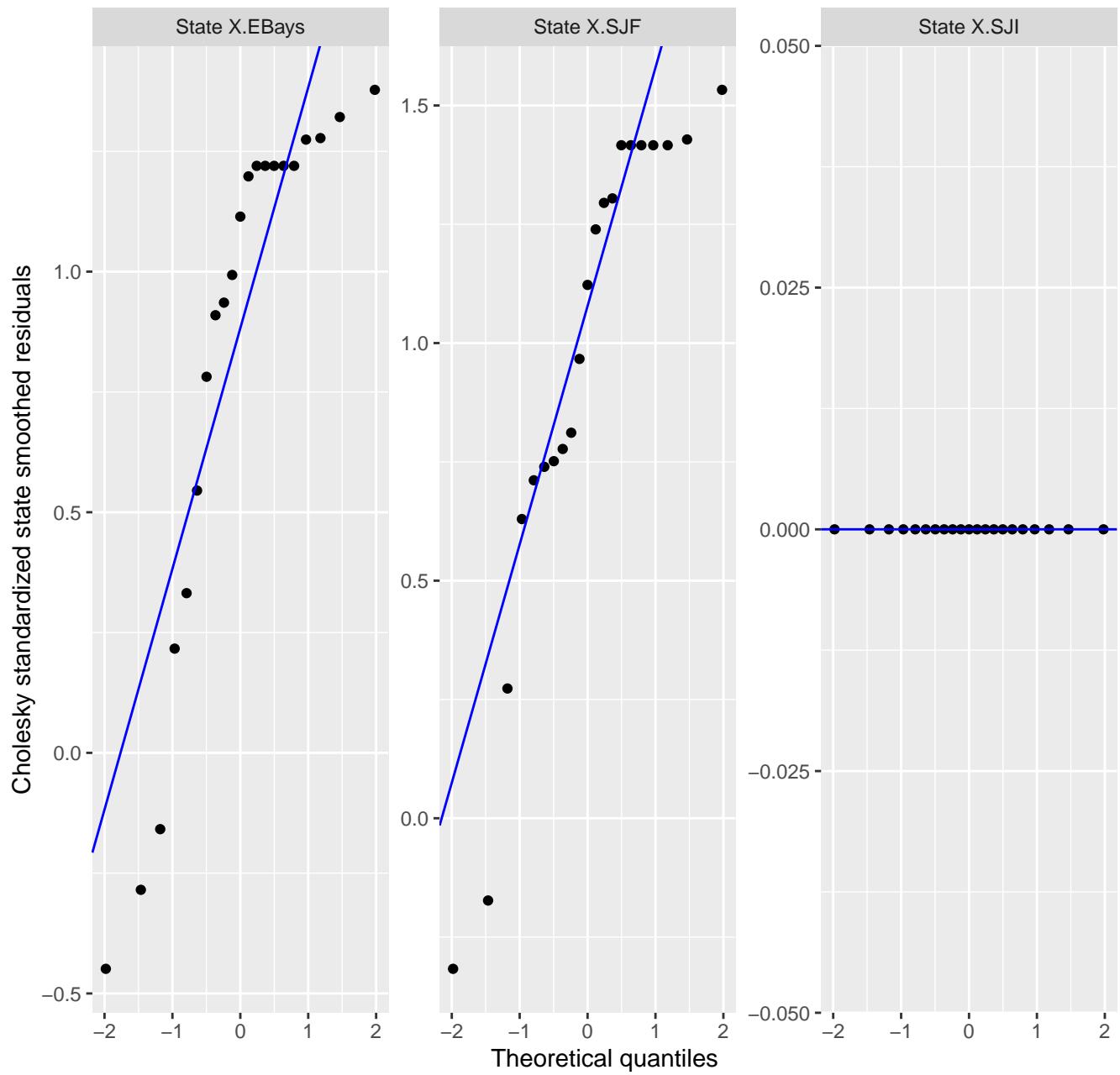
State residuals



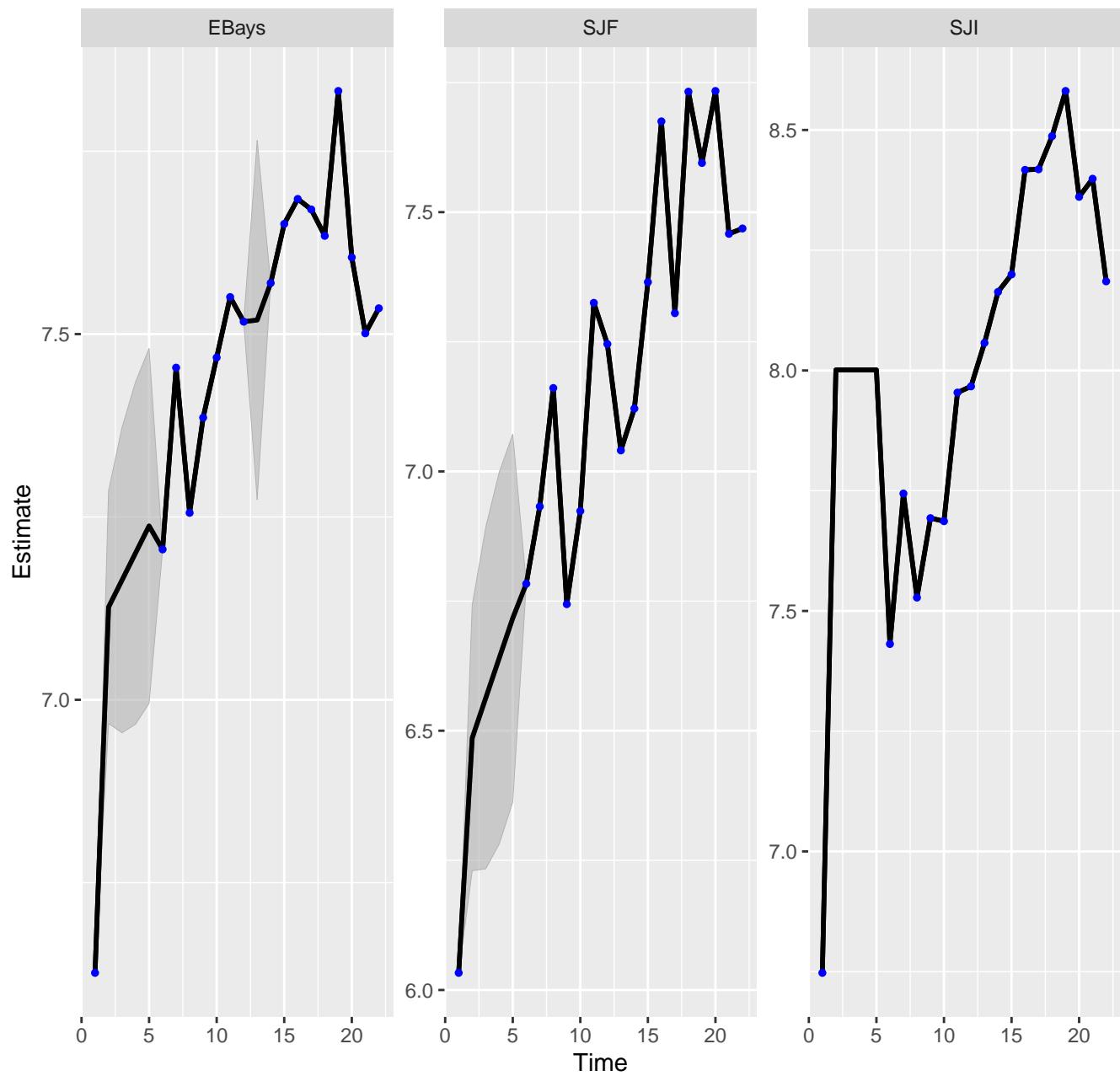
Model residuals normality test



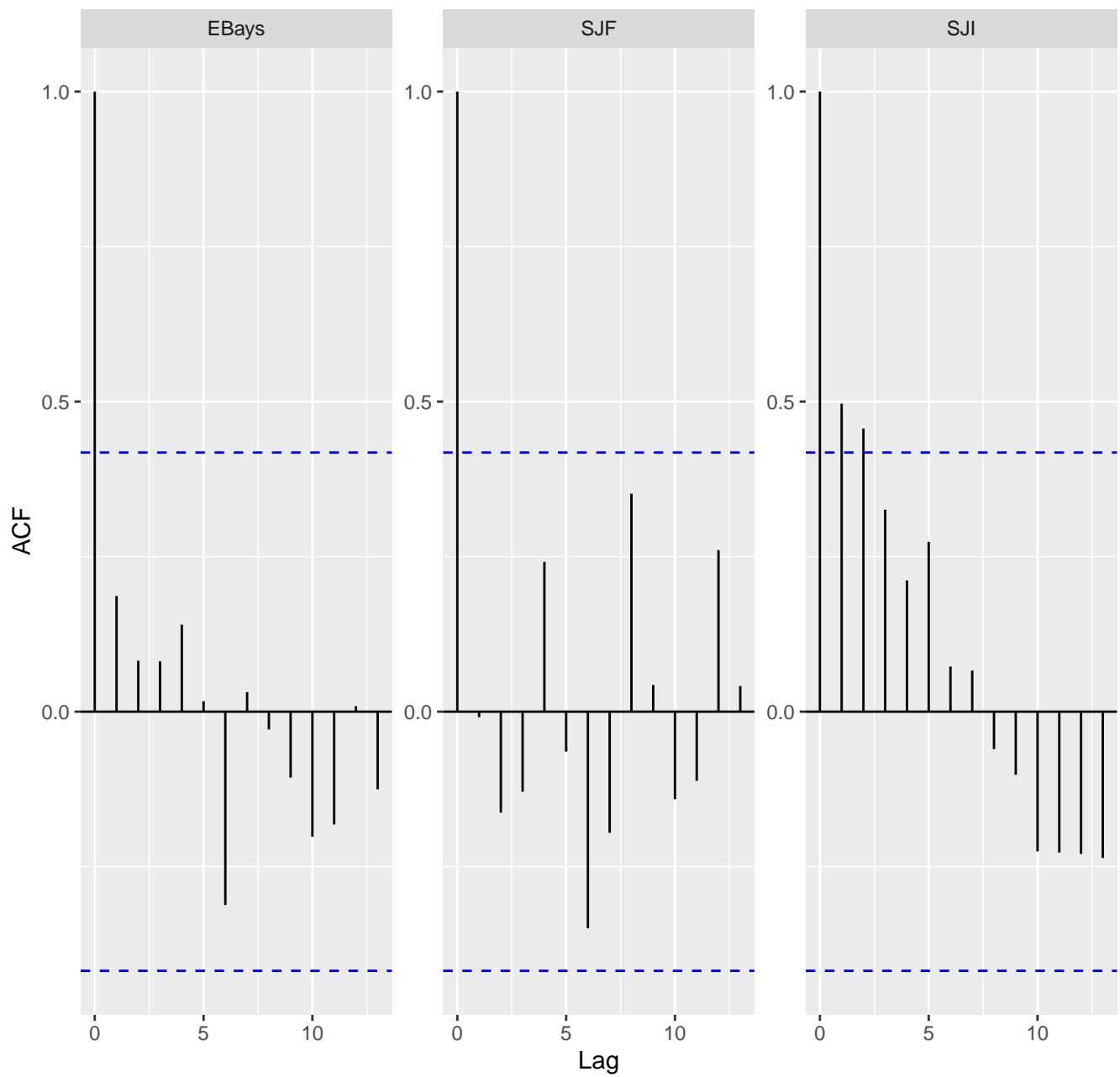
State residuals normality test

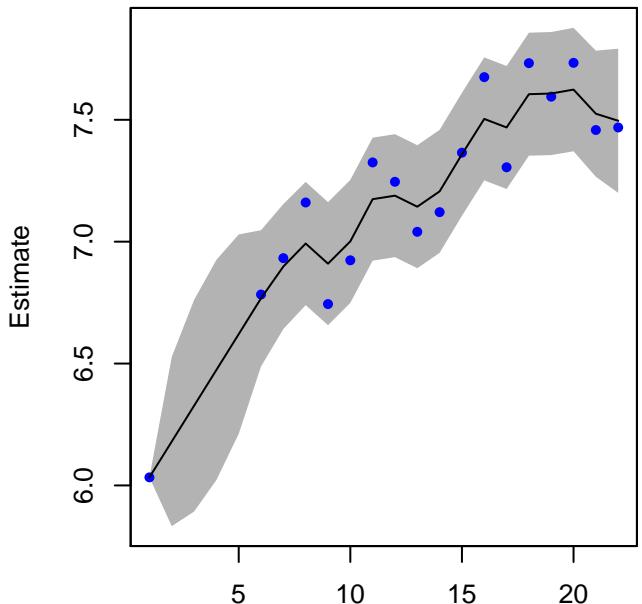
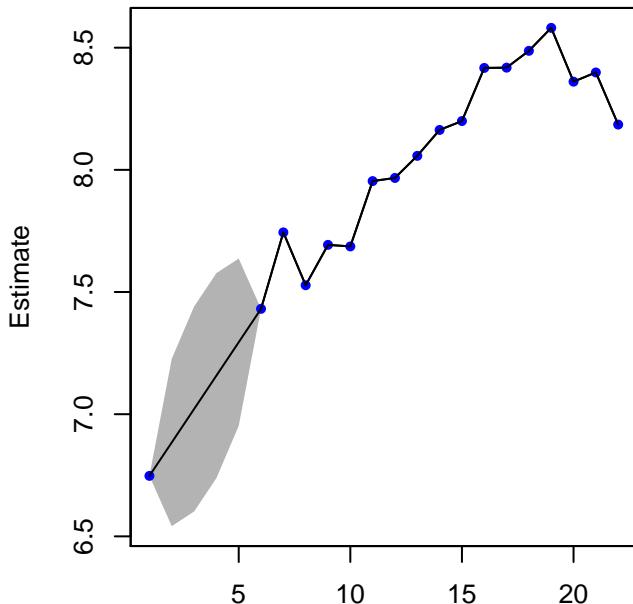
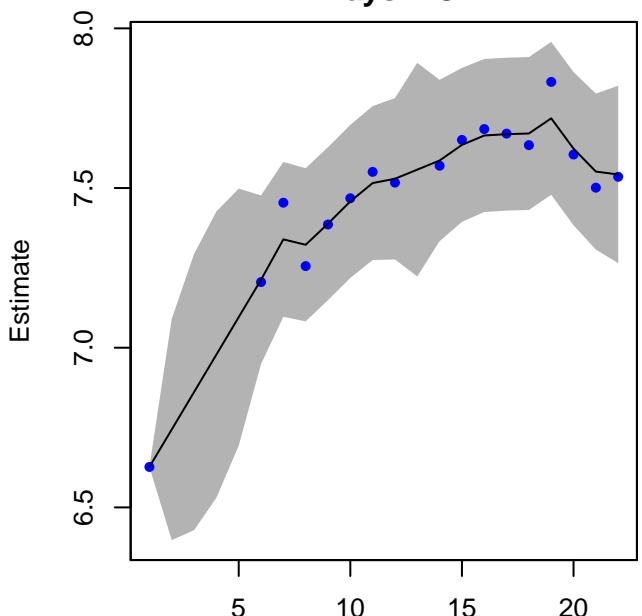


Expected value of Y conditioned on data

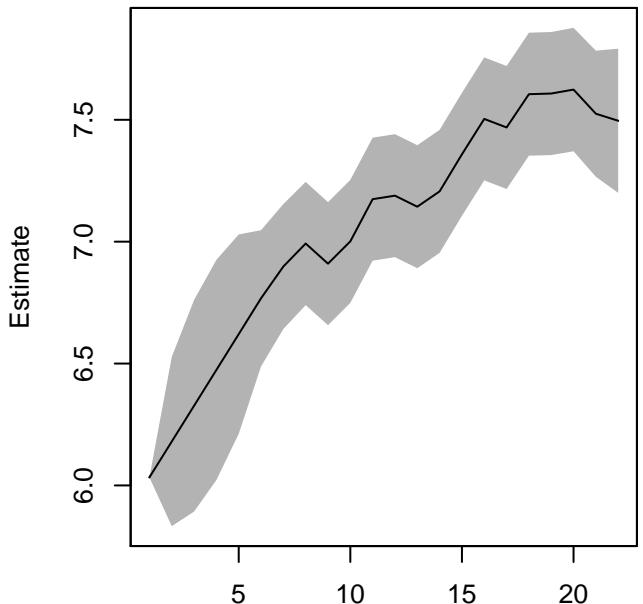


Model innovations residuals ACF

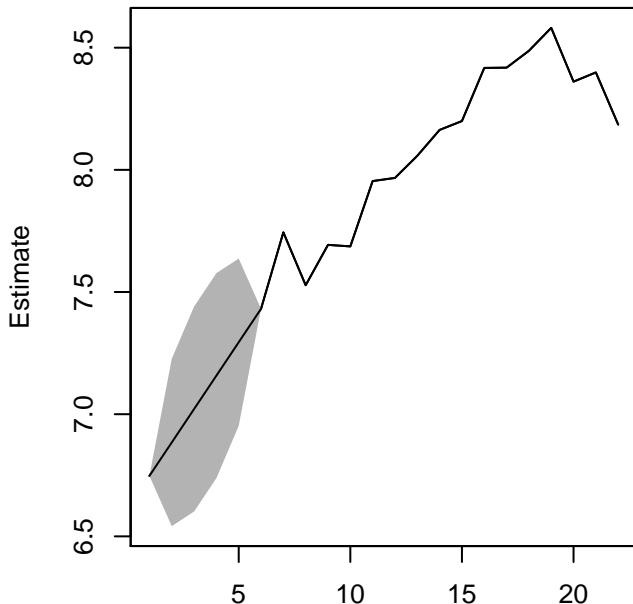


SJF + CI**SJI + CI****EBays + CI**

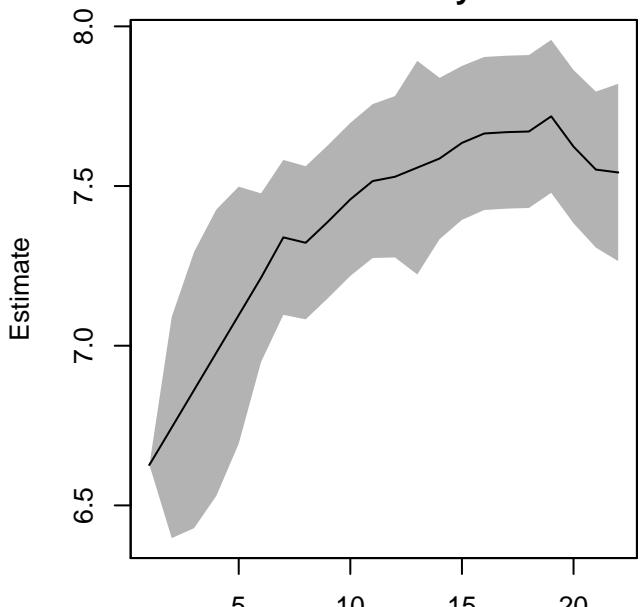
State X.SJF



State X.SJI

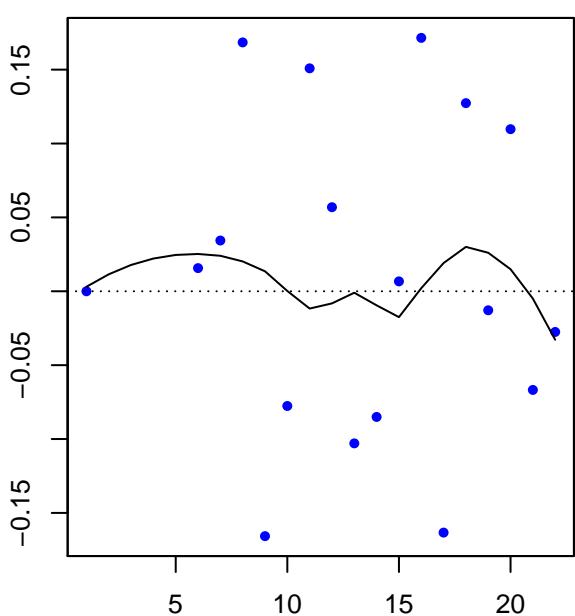


State X.EBays

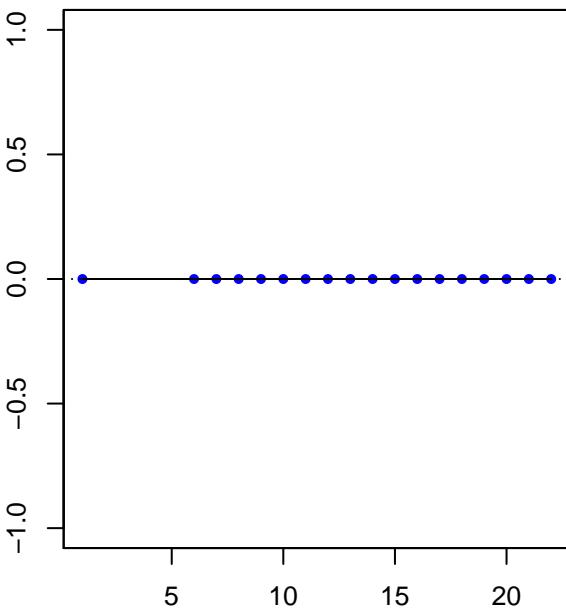


Observation residuals, $y - E[y]$

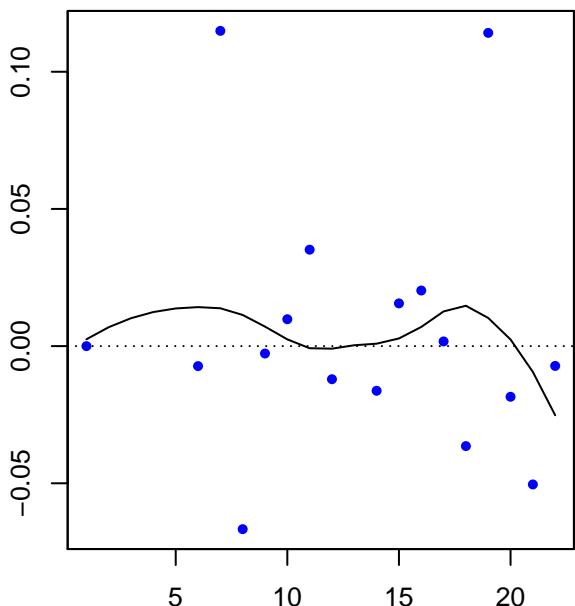
SJF



SJI

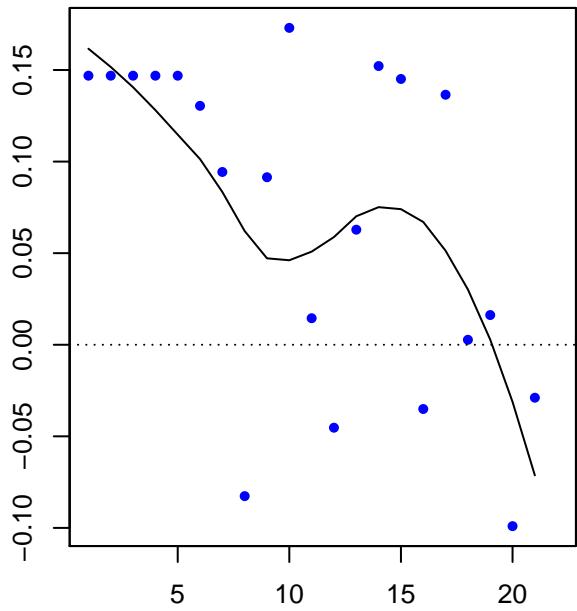


EBays

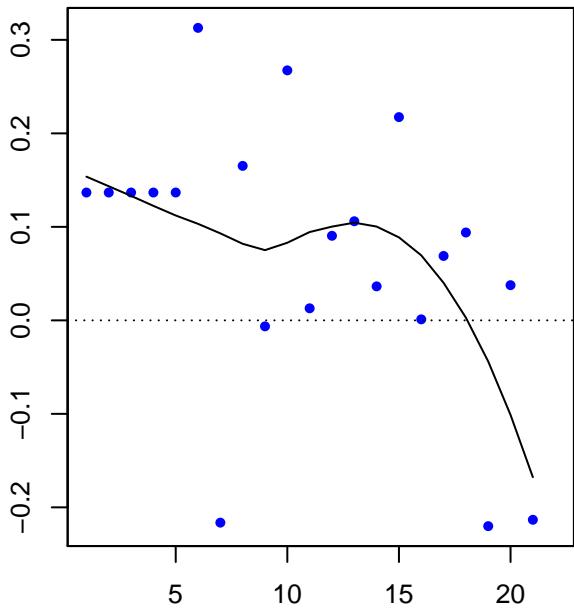


State residuals, $x_{tT} - E[x]$

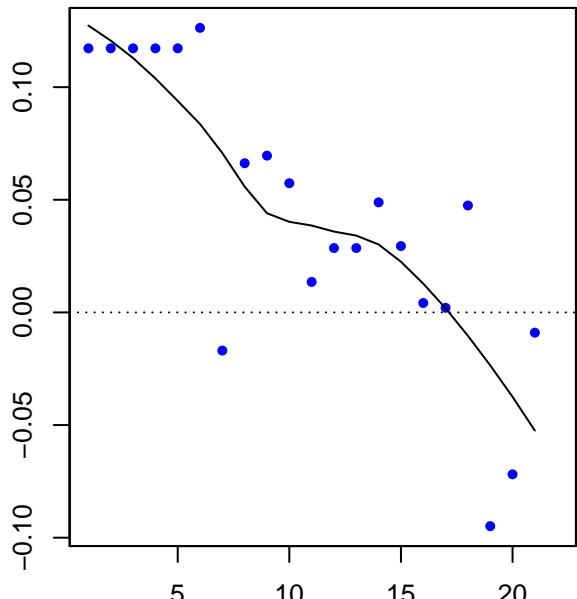
State X.SJF

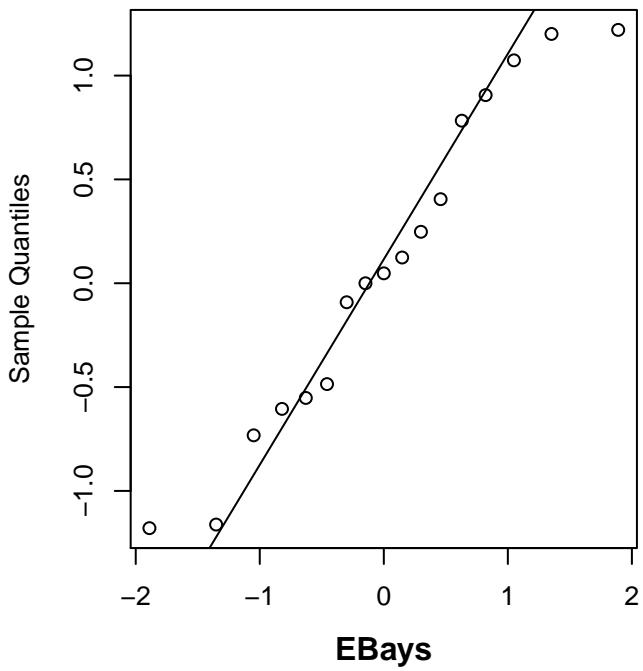
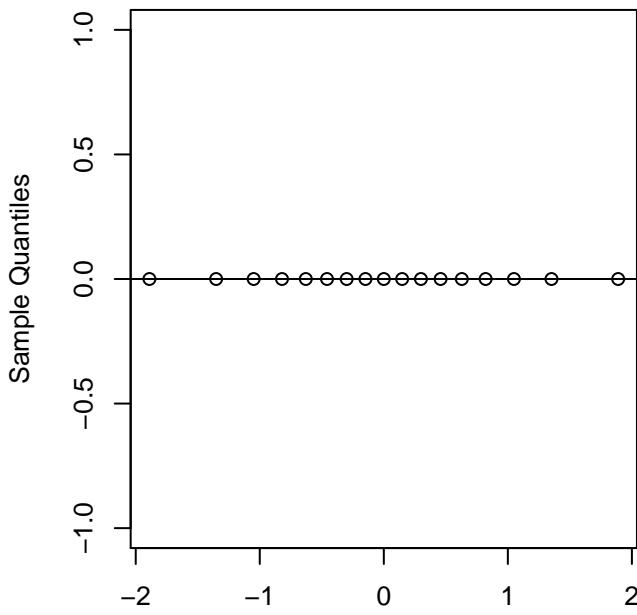
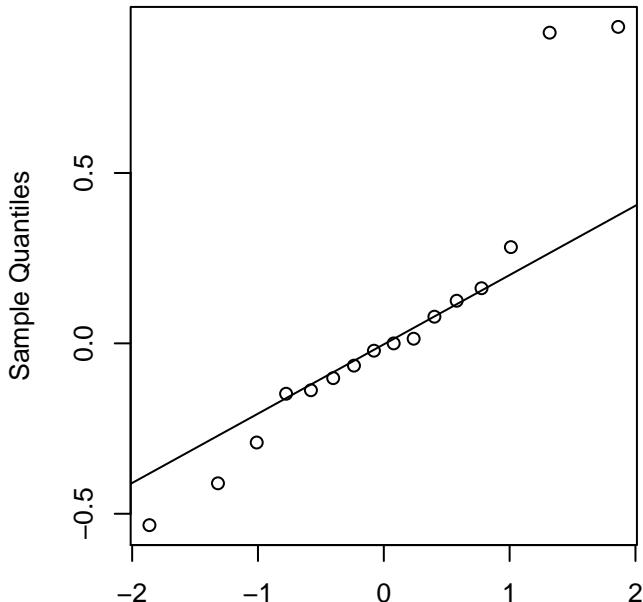


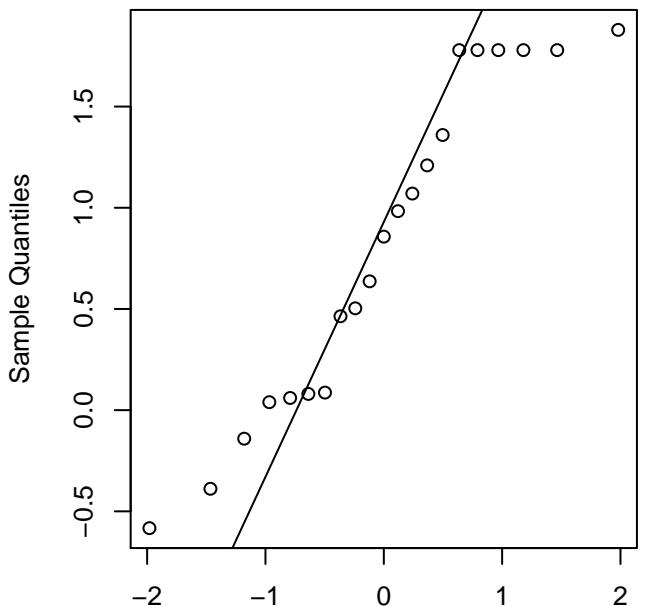
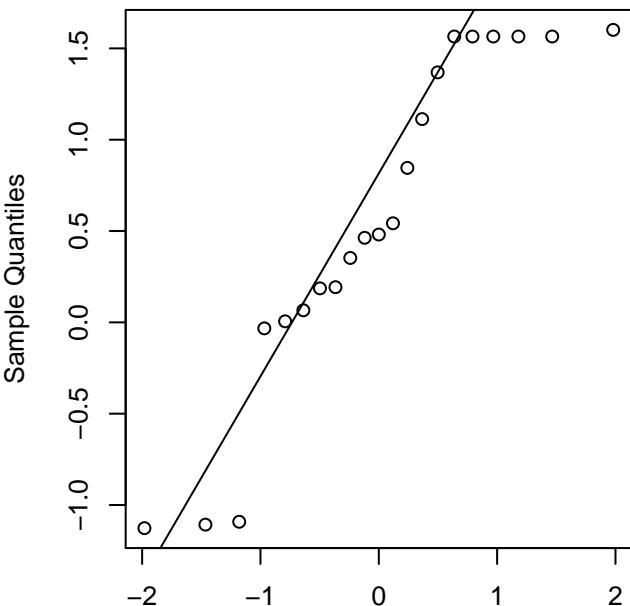
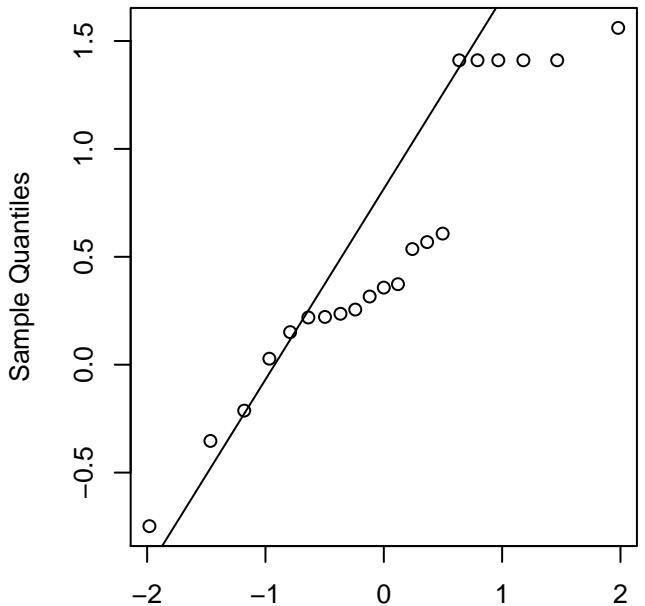
State X.SJI

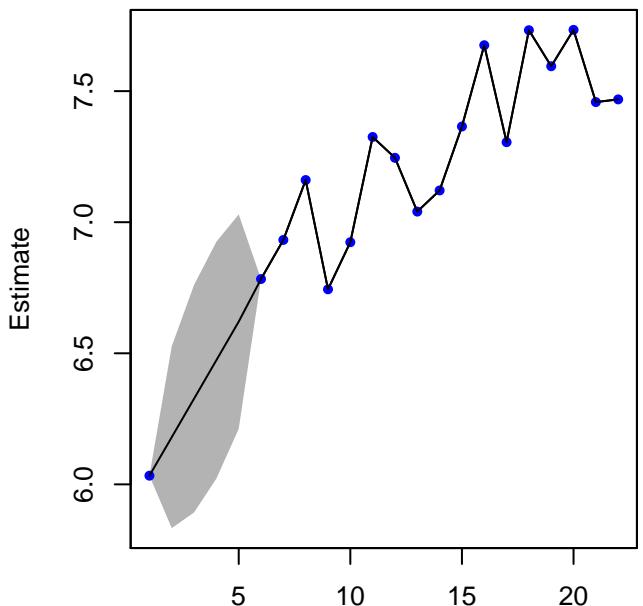
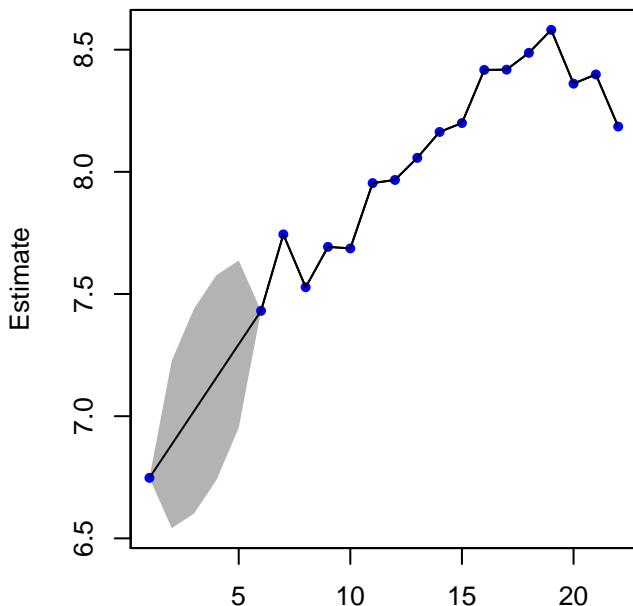
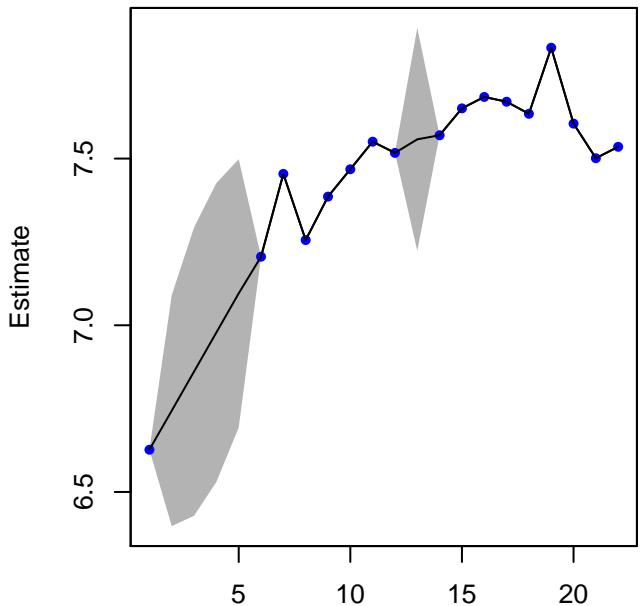


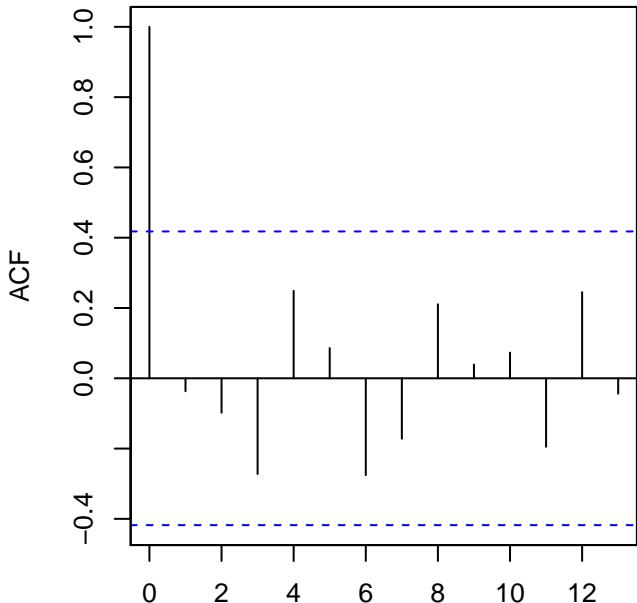
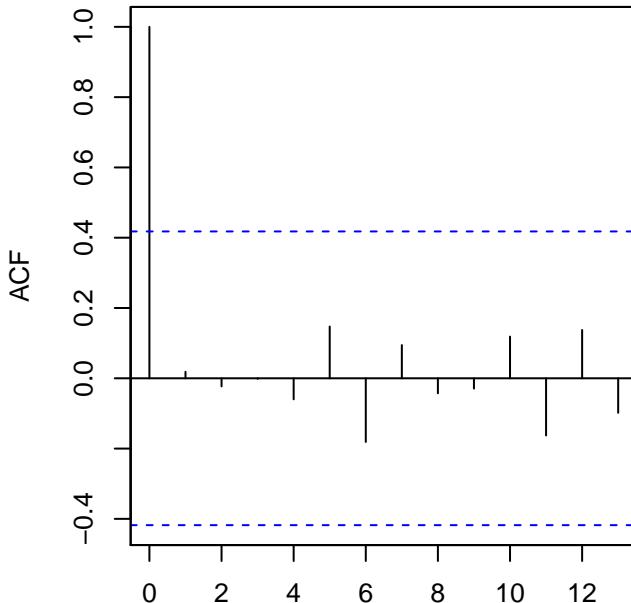
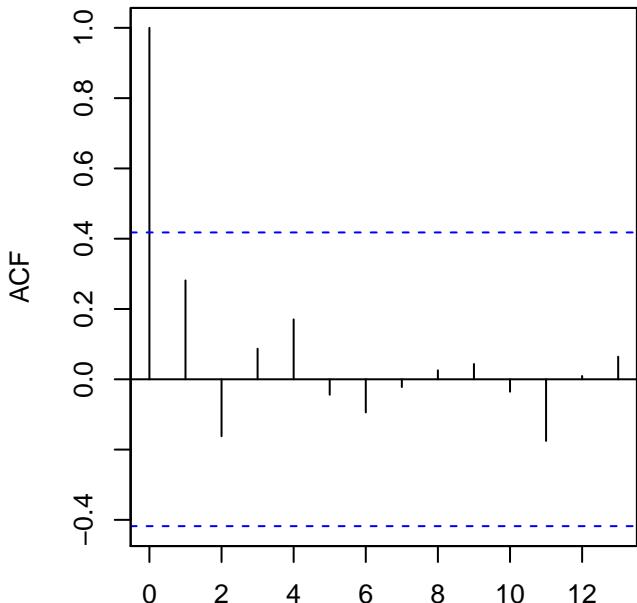
State X.EBays



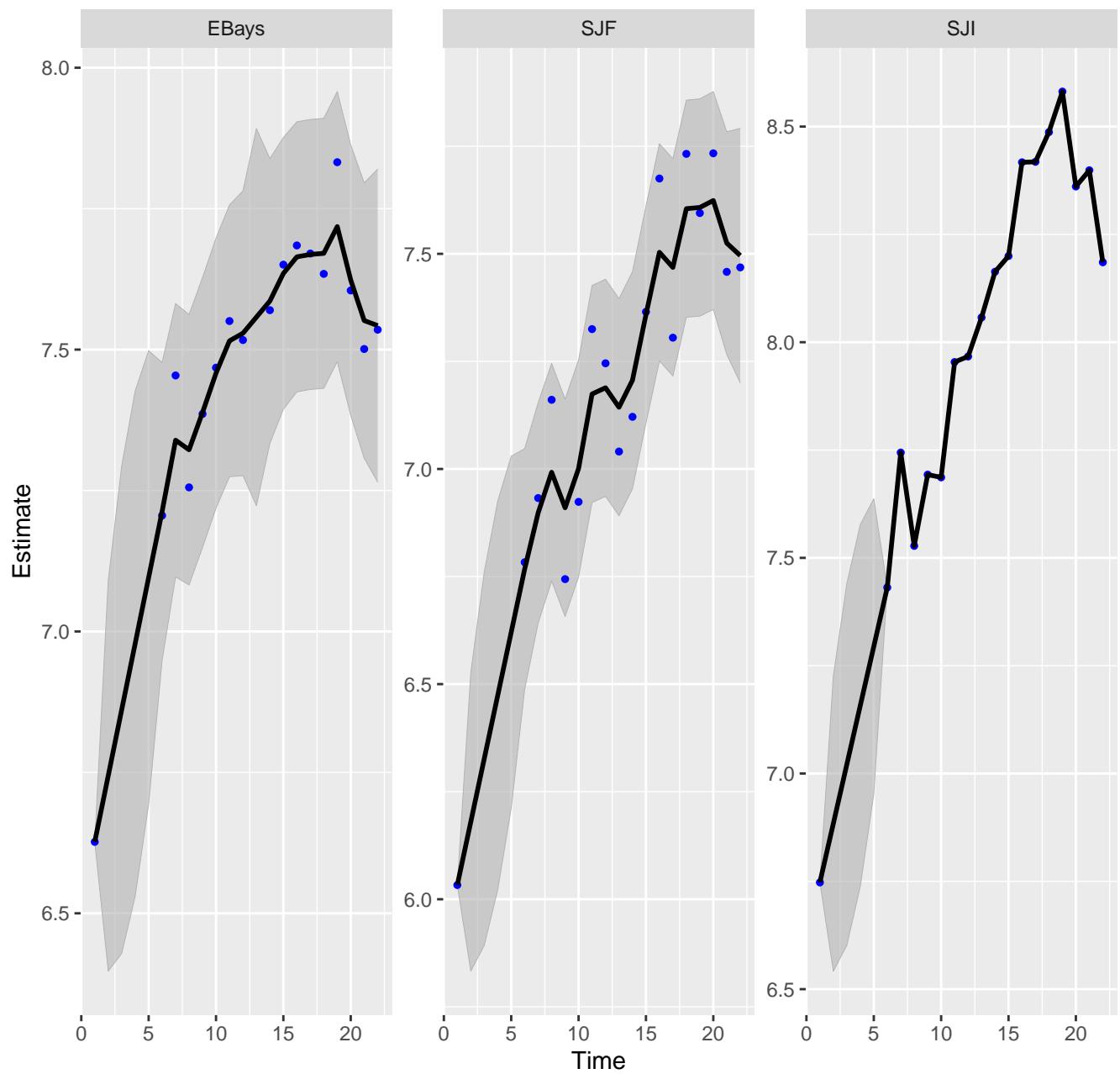
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

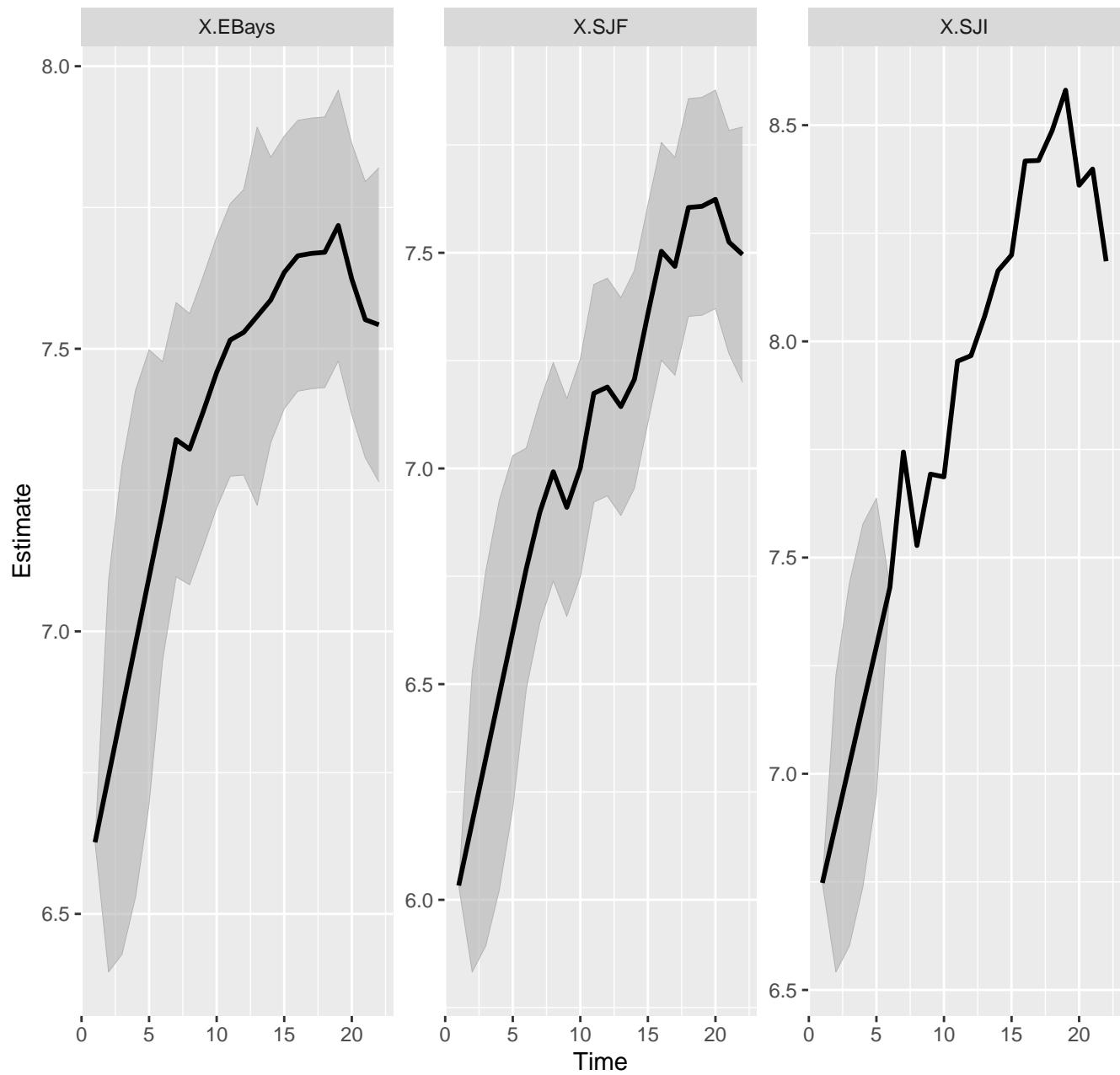
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

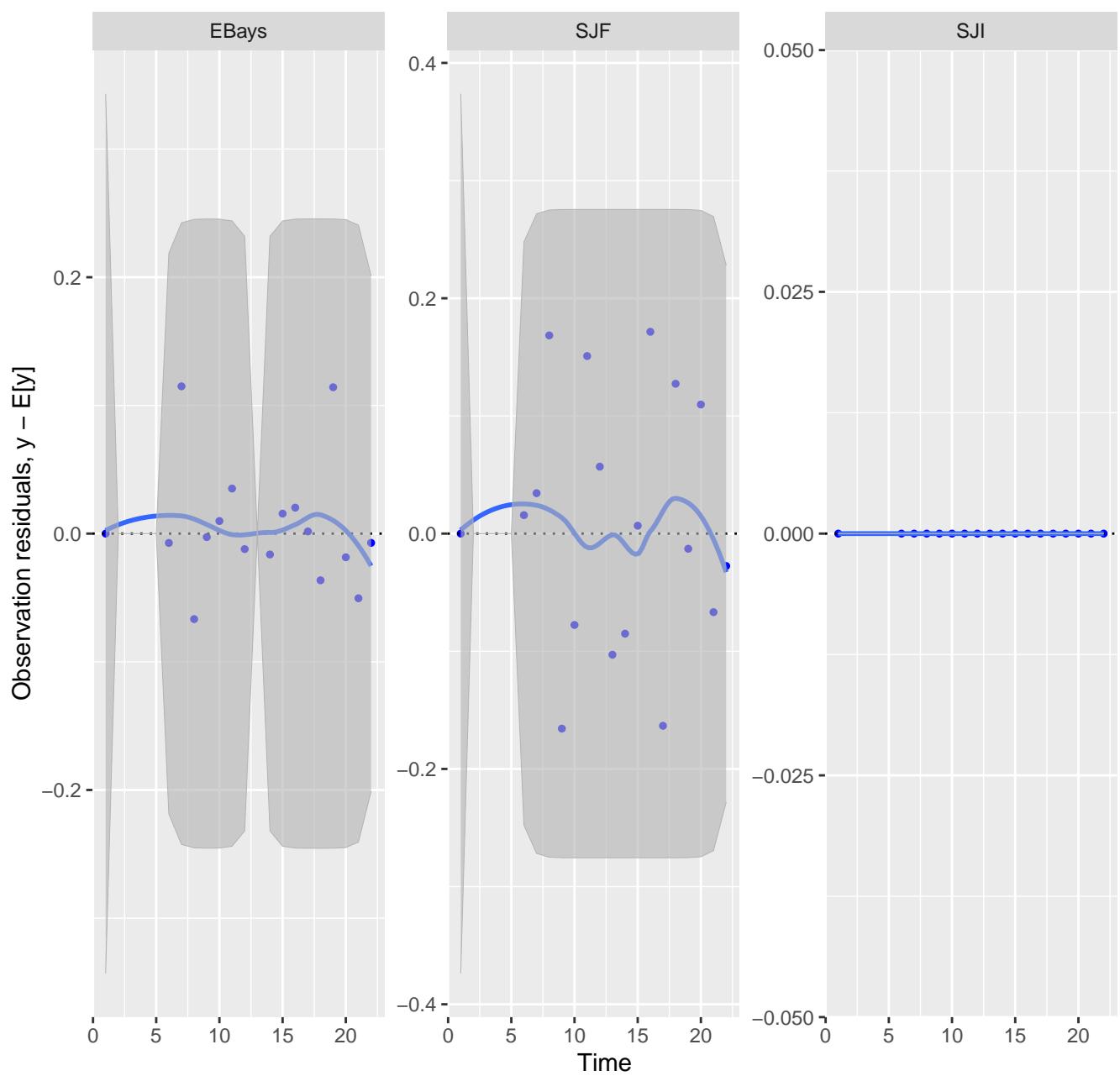
Model fitted Y + CI



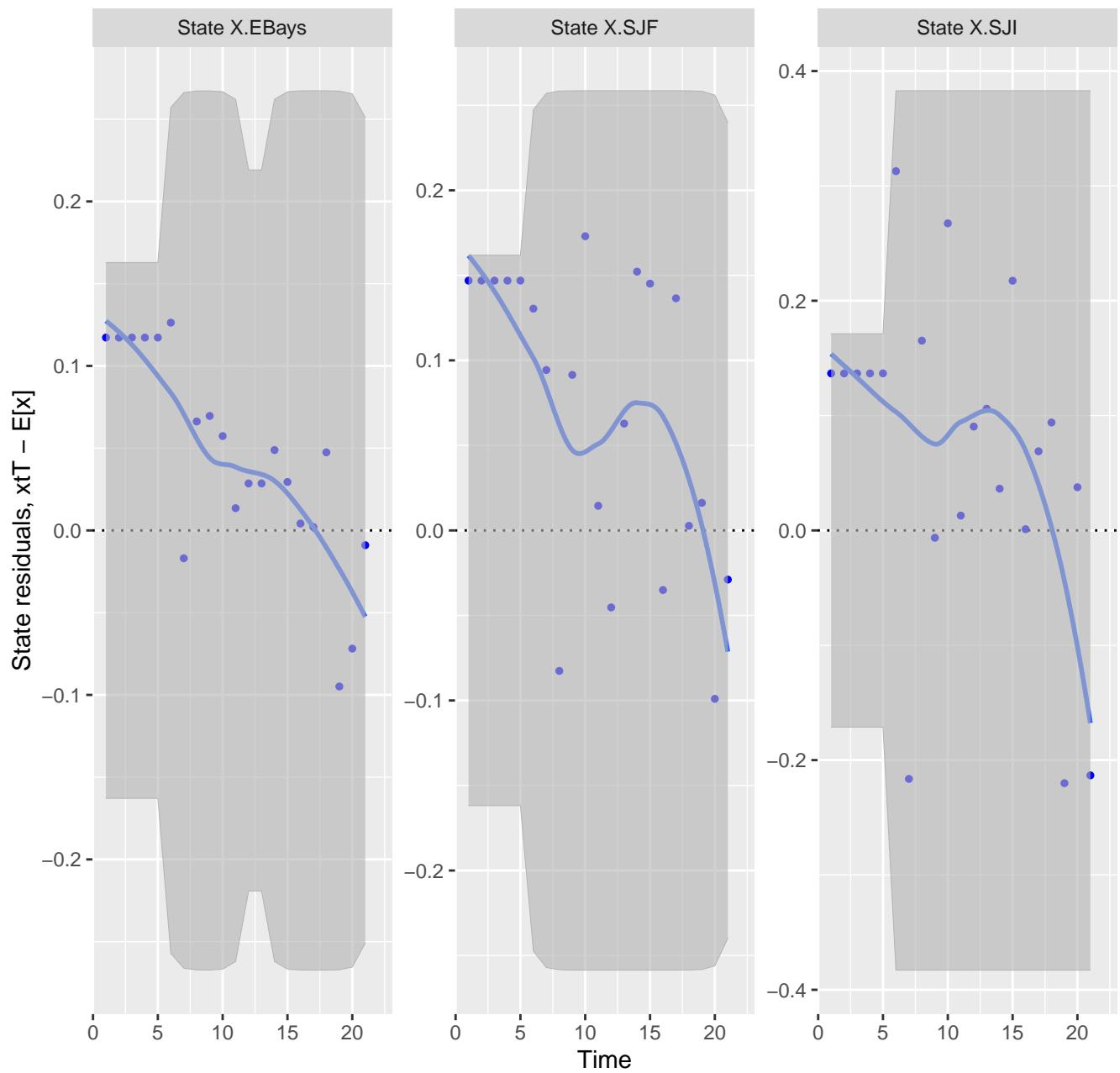
States



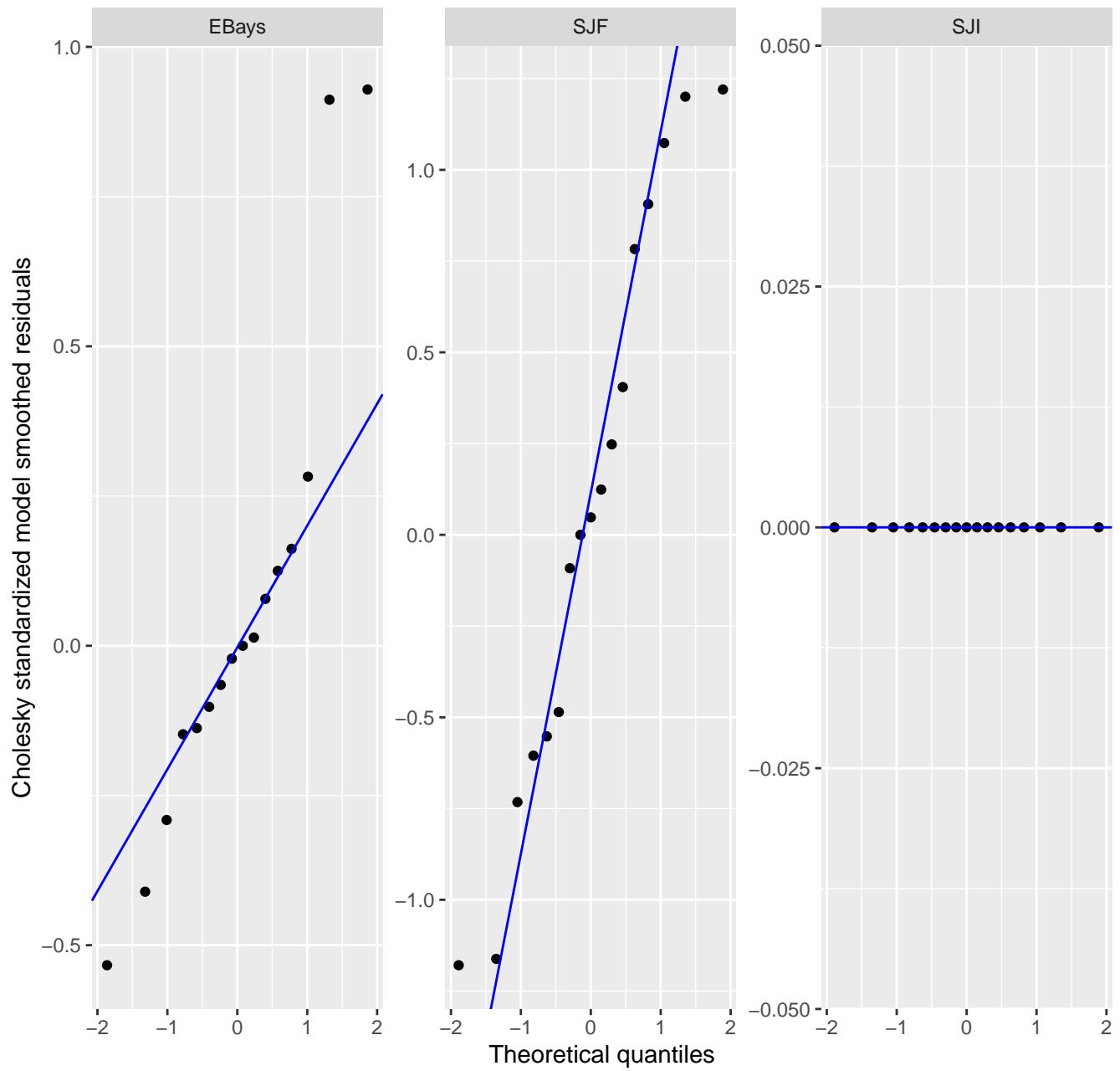
Model residuals



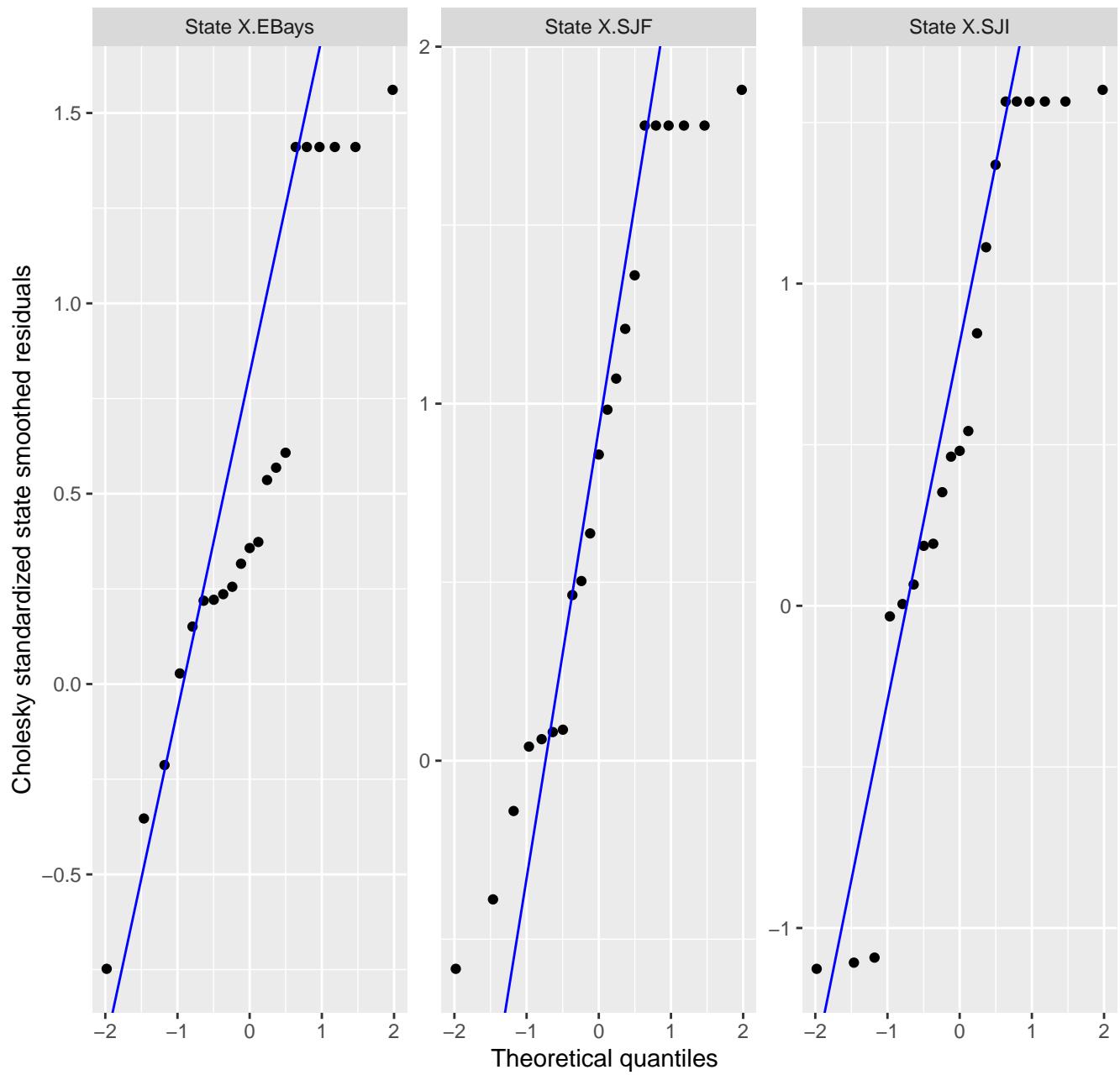
State residuals



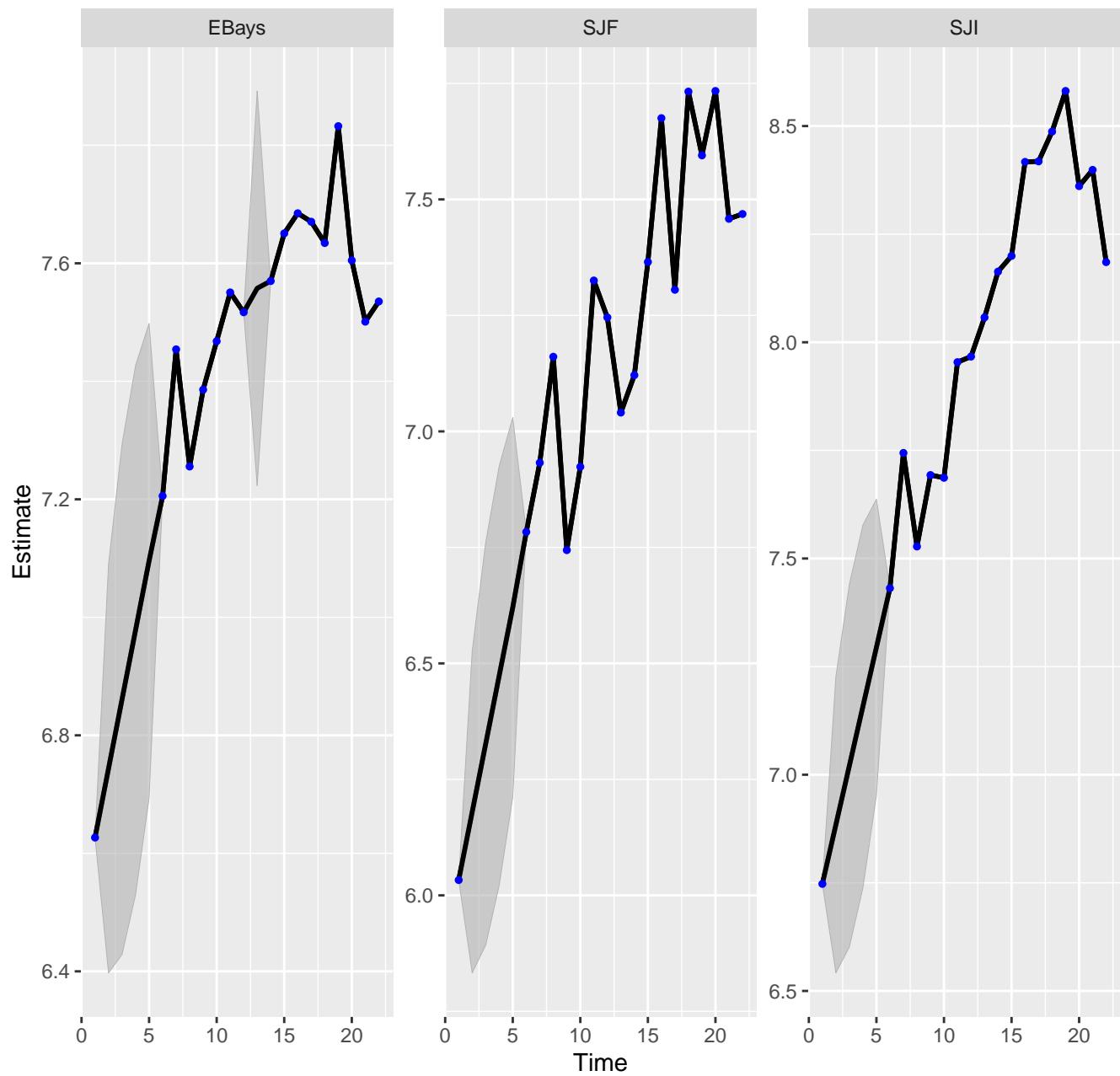
Model residuals normality test



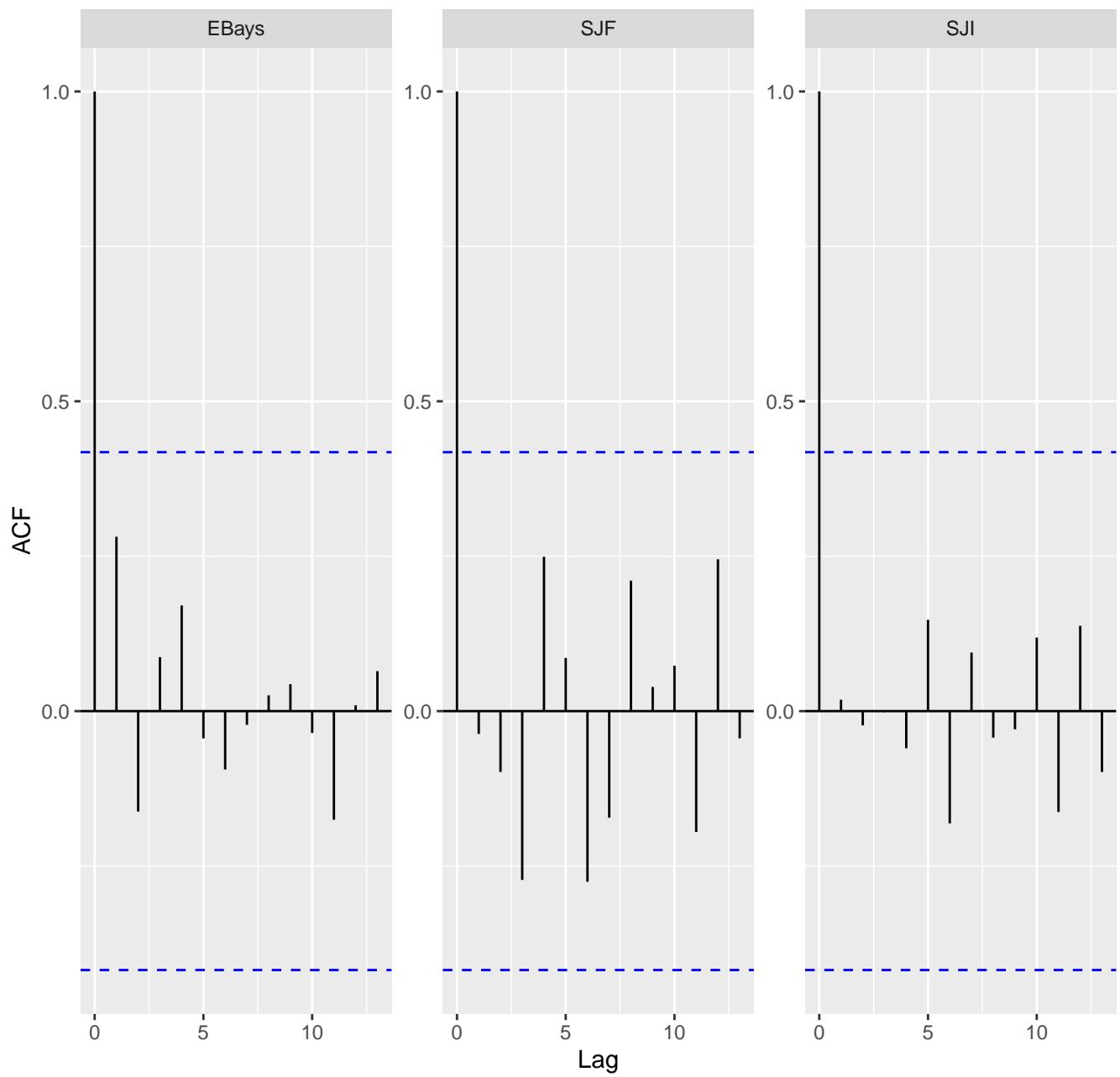
State residuals normality test

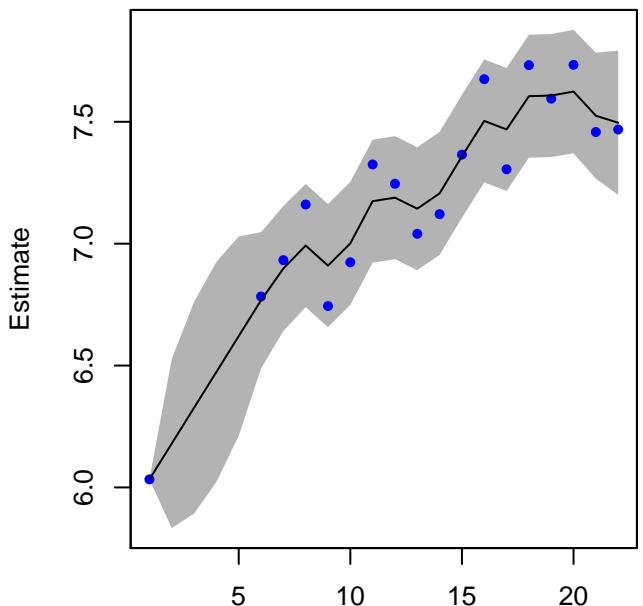
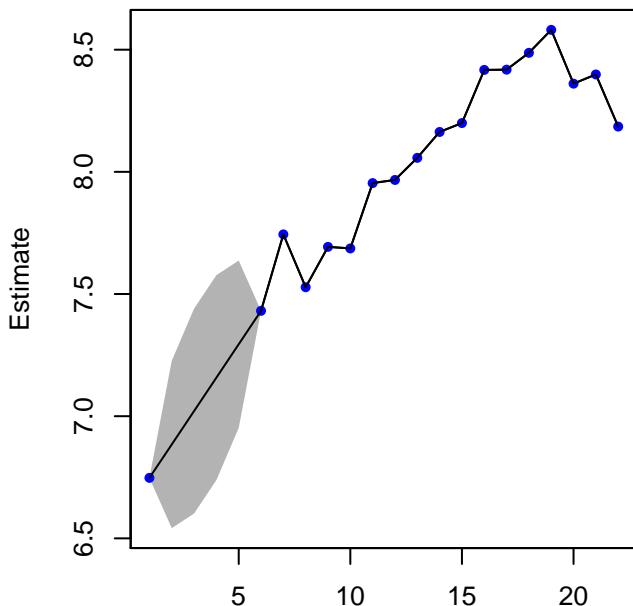
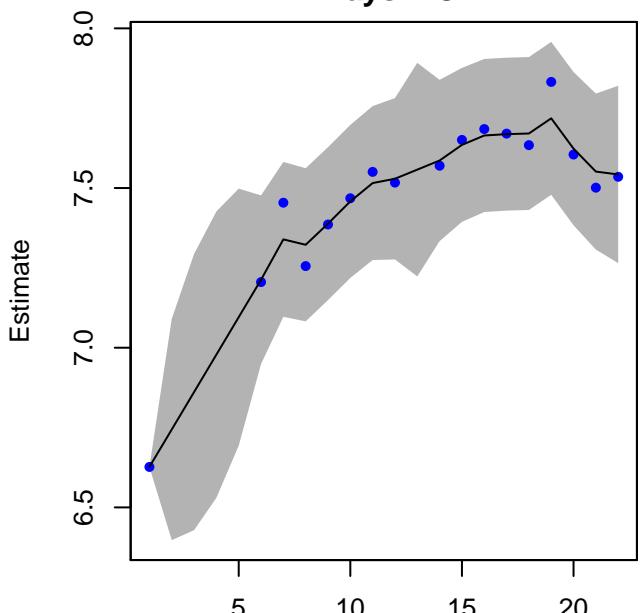


Expected value of Y conditioned on data

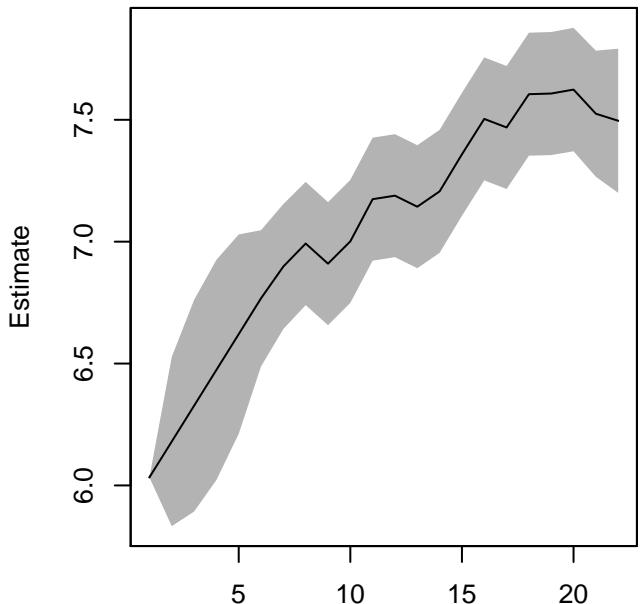


Model innovations residuals ACF

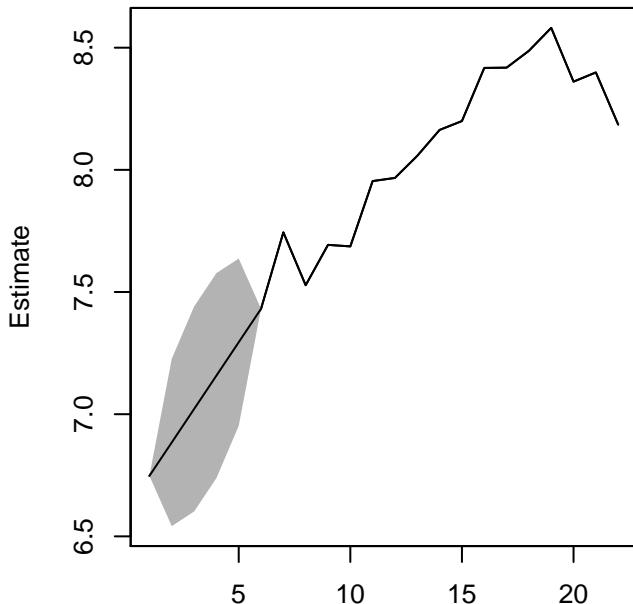


SJF + CI**SJI + CI****EBays + CI**

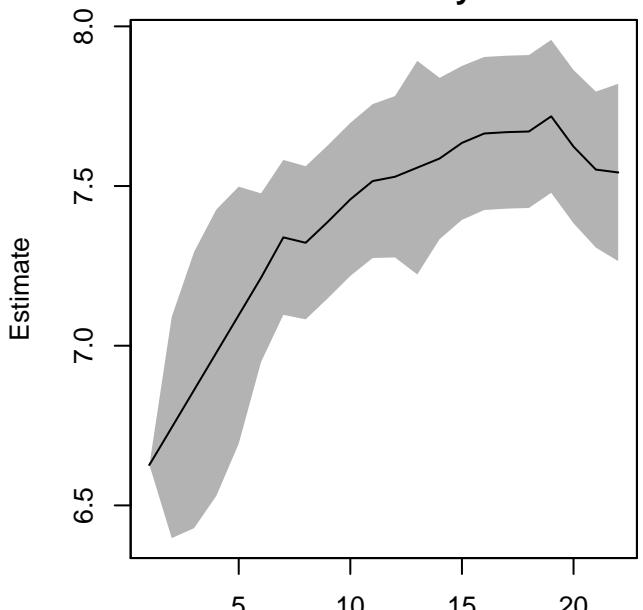
State X.SJF



State X.SJI

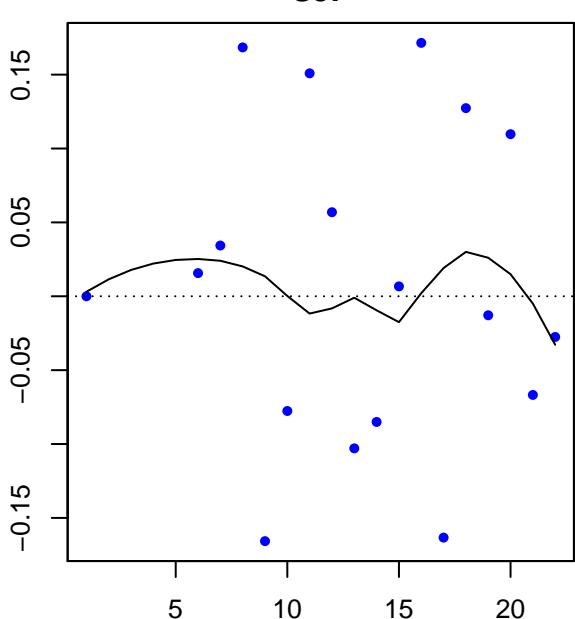


State X.EBays

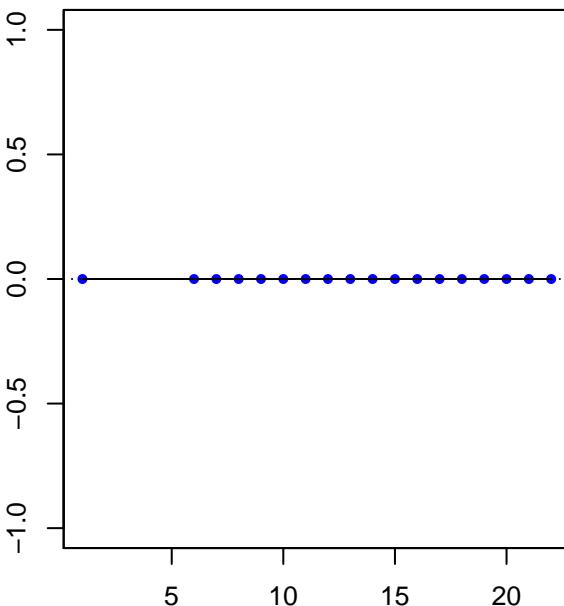


Observation residuals, $y - E[y]$

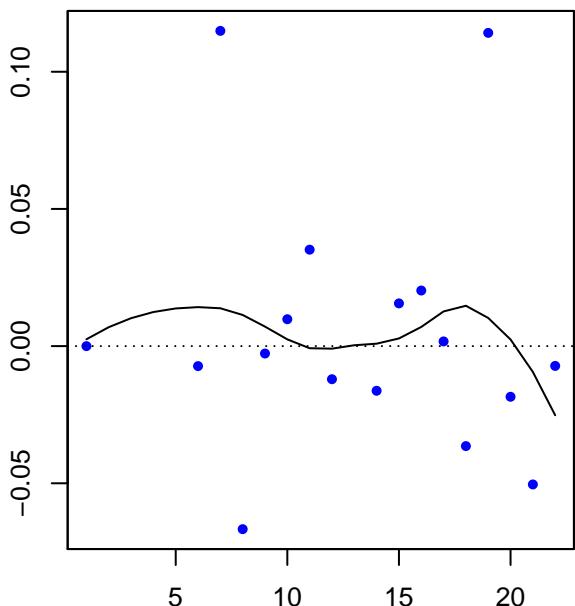
SJF



SJI

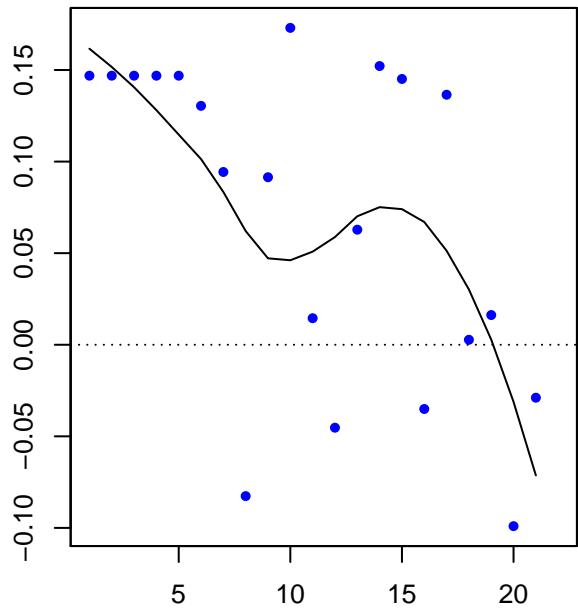


EBays

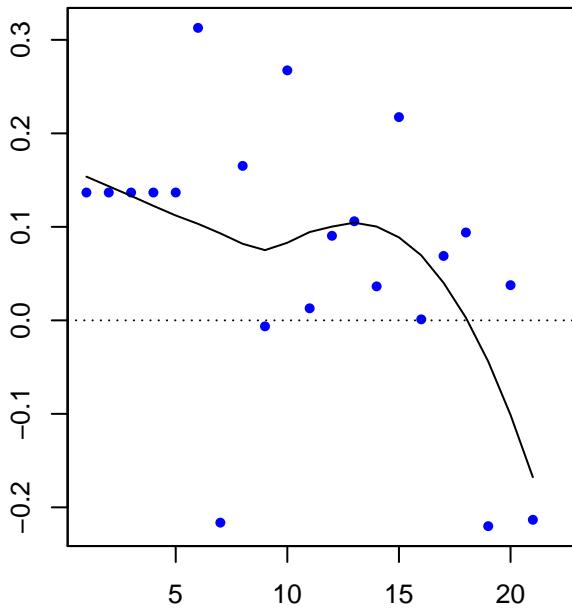


State residuals, $x_{tT} - E[x]$

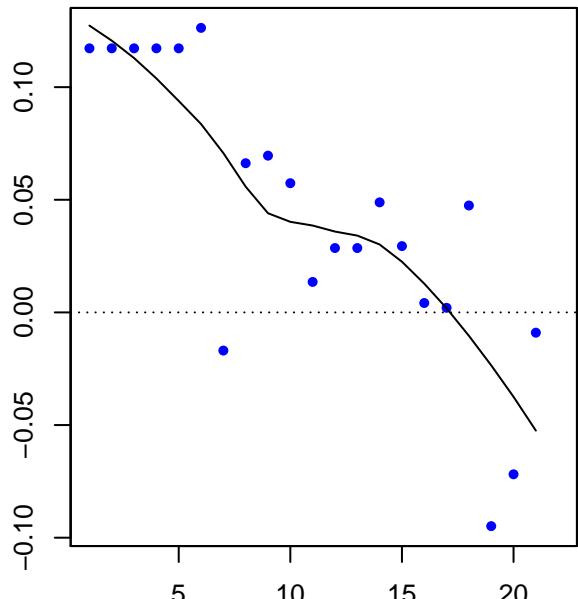
State X.SJF

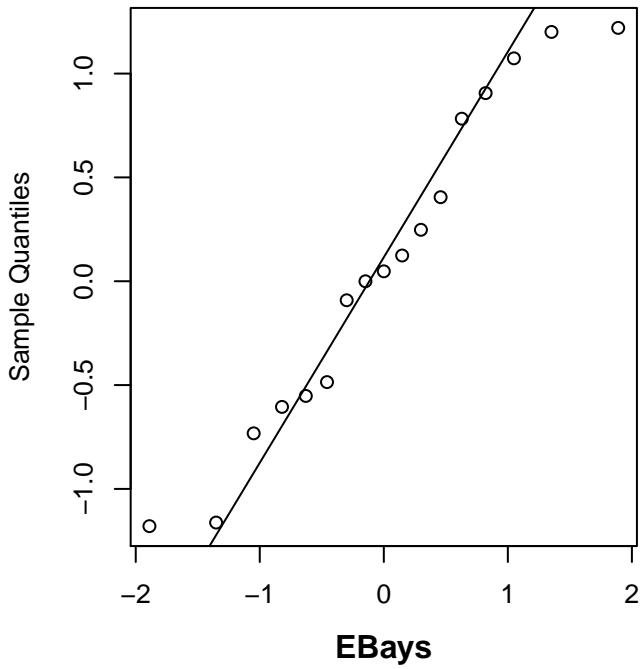
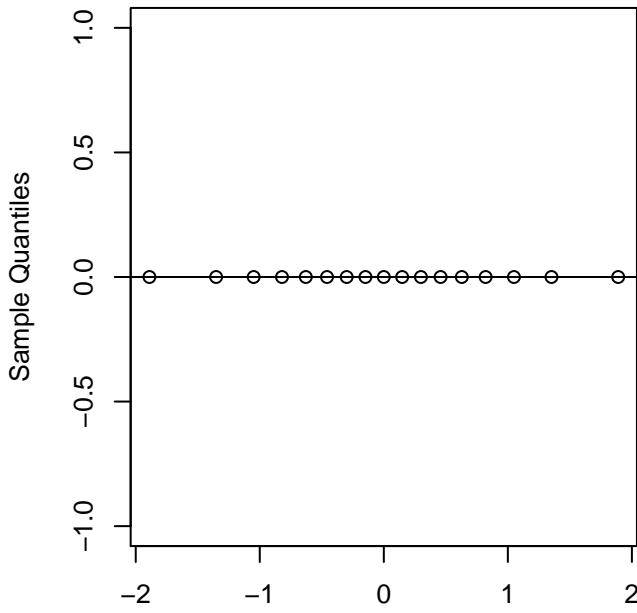
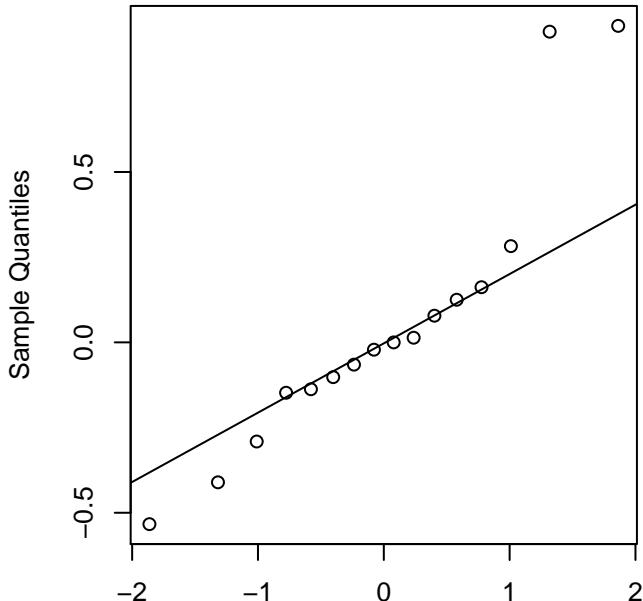


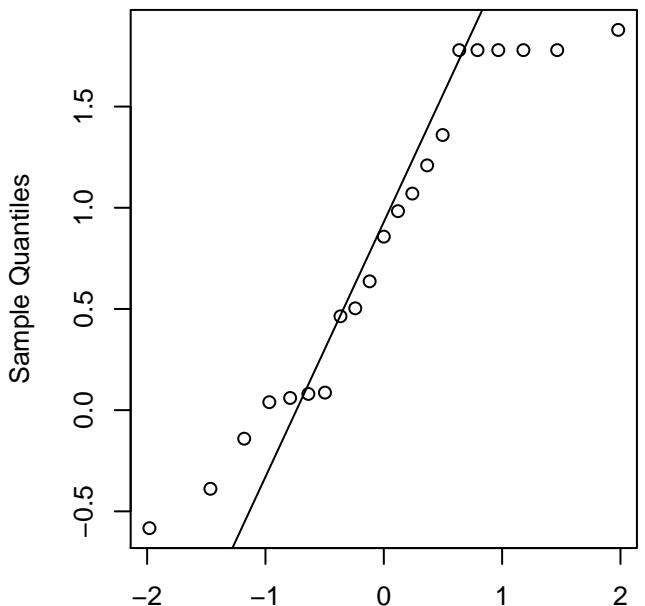
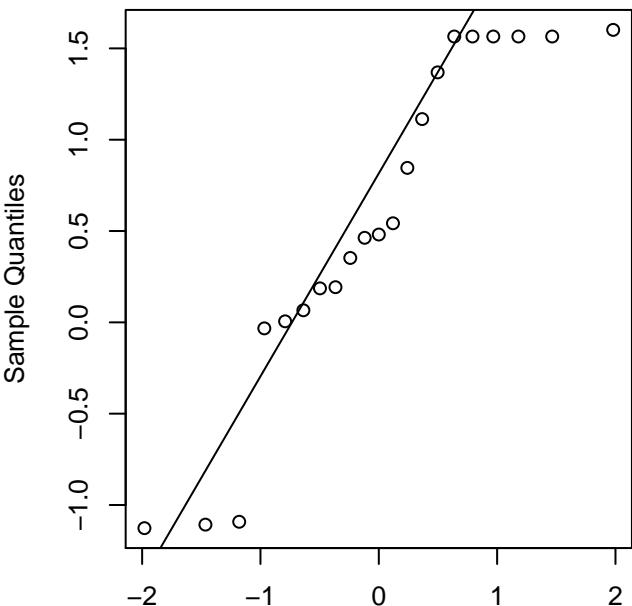
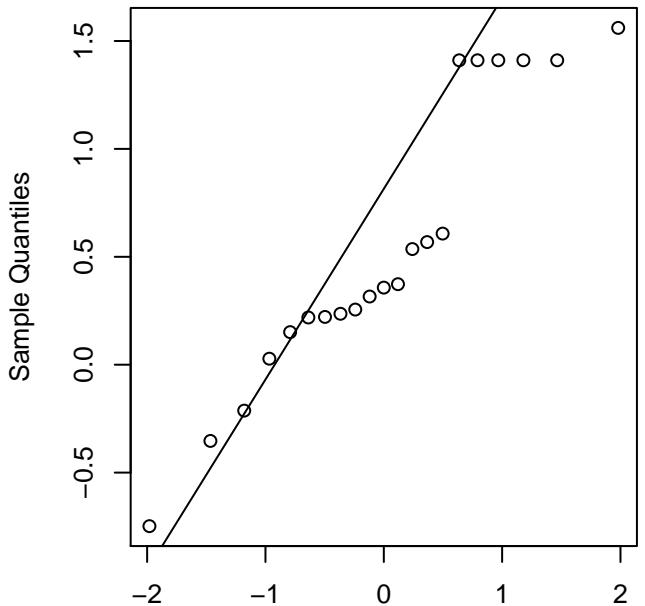
State X.SJI

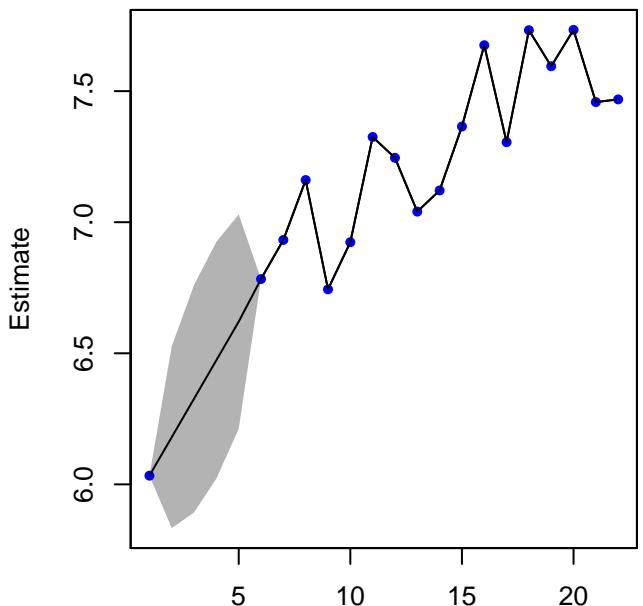
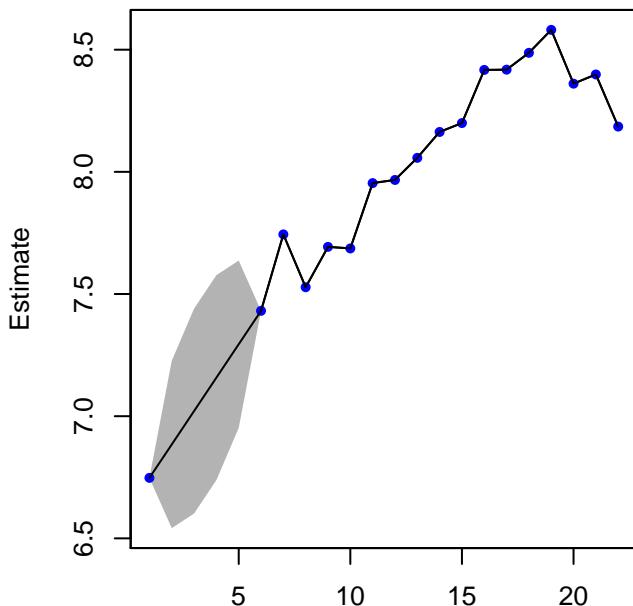
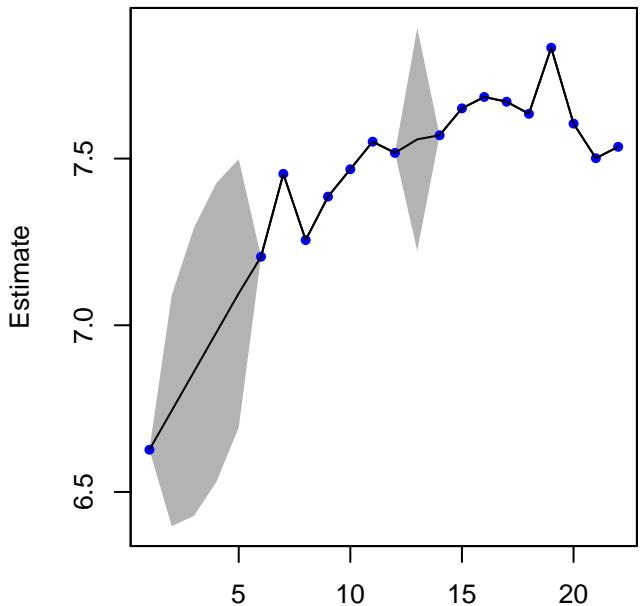


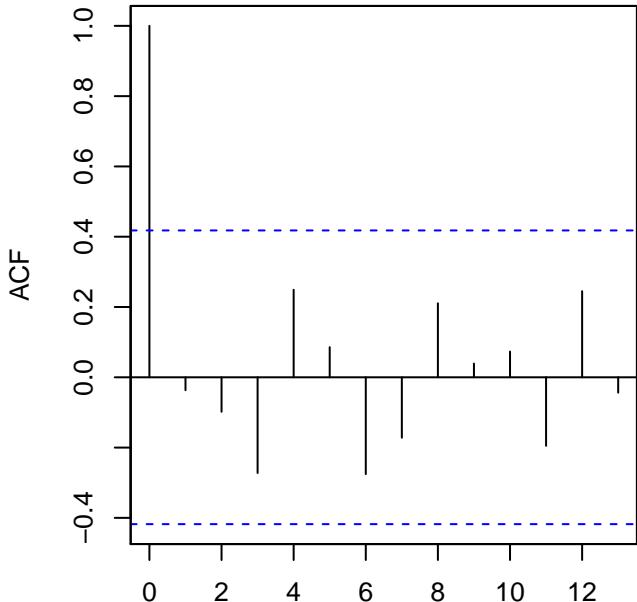
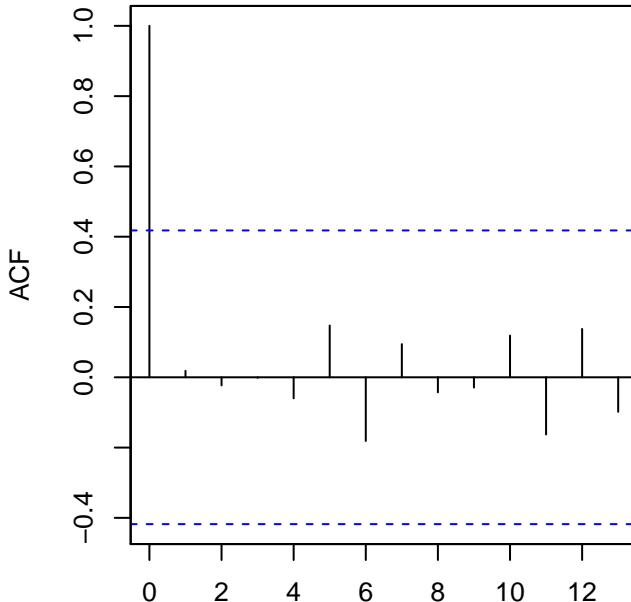
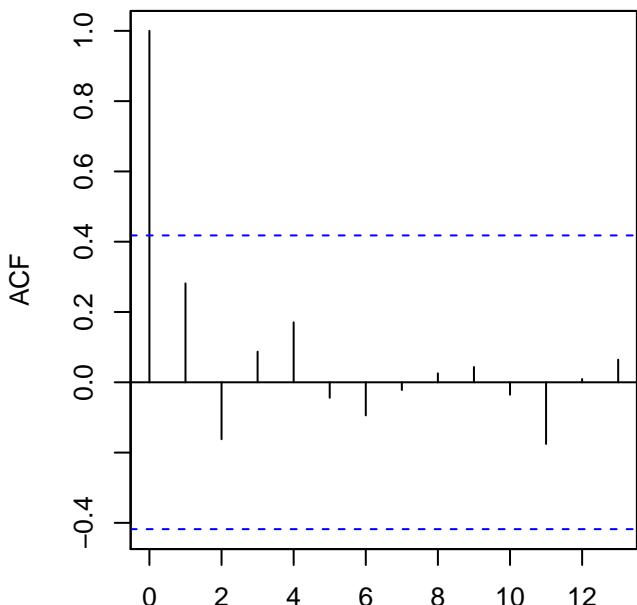
State X.EBays



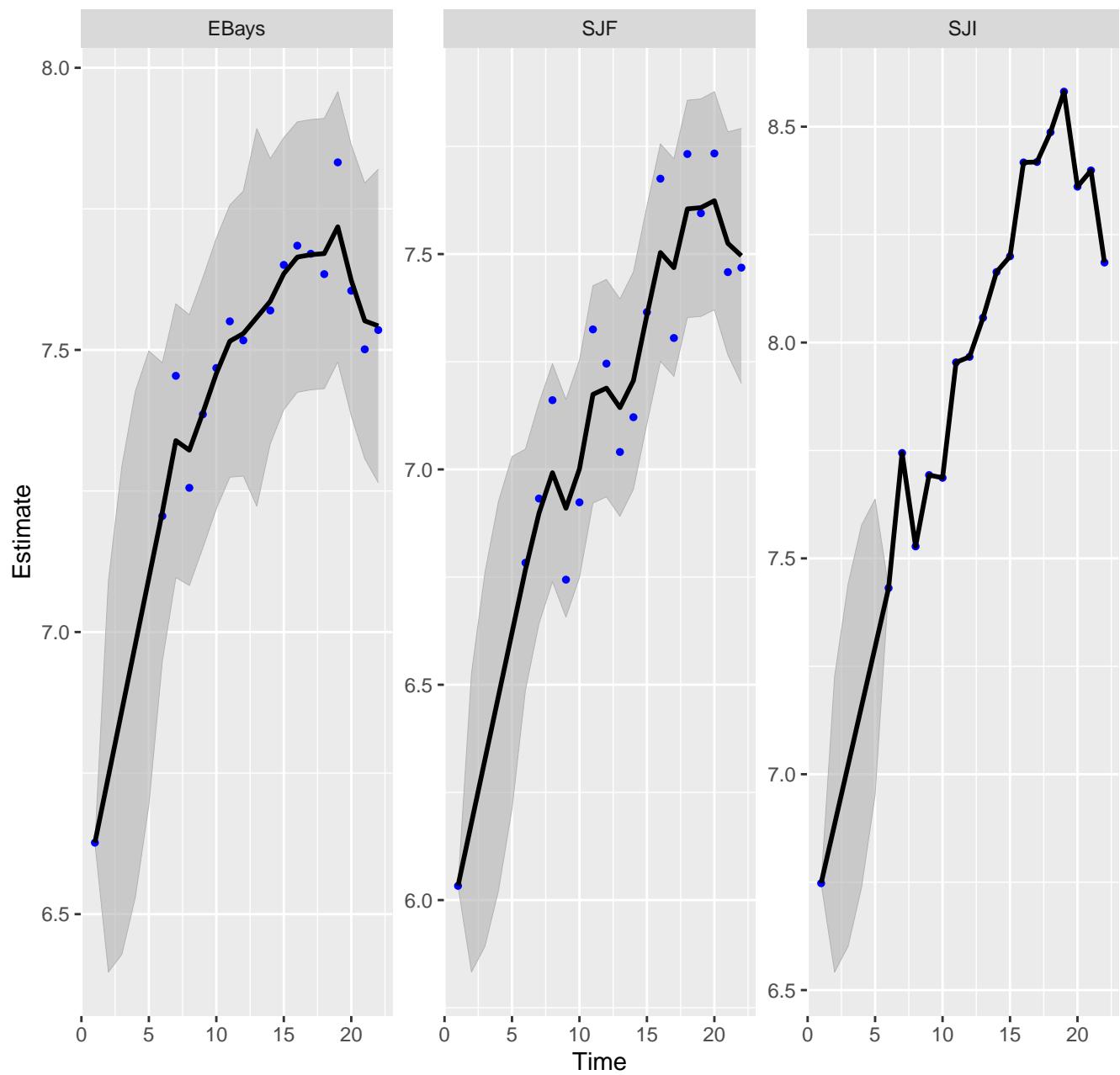
SJF**SJI****EBays**

State X.SJF**State X.SJI****State X.EBays**

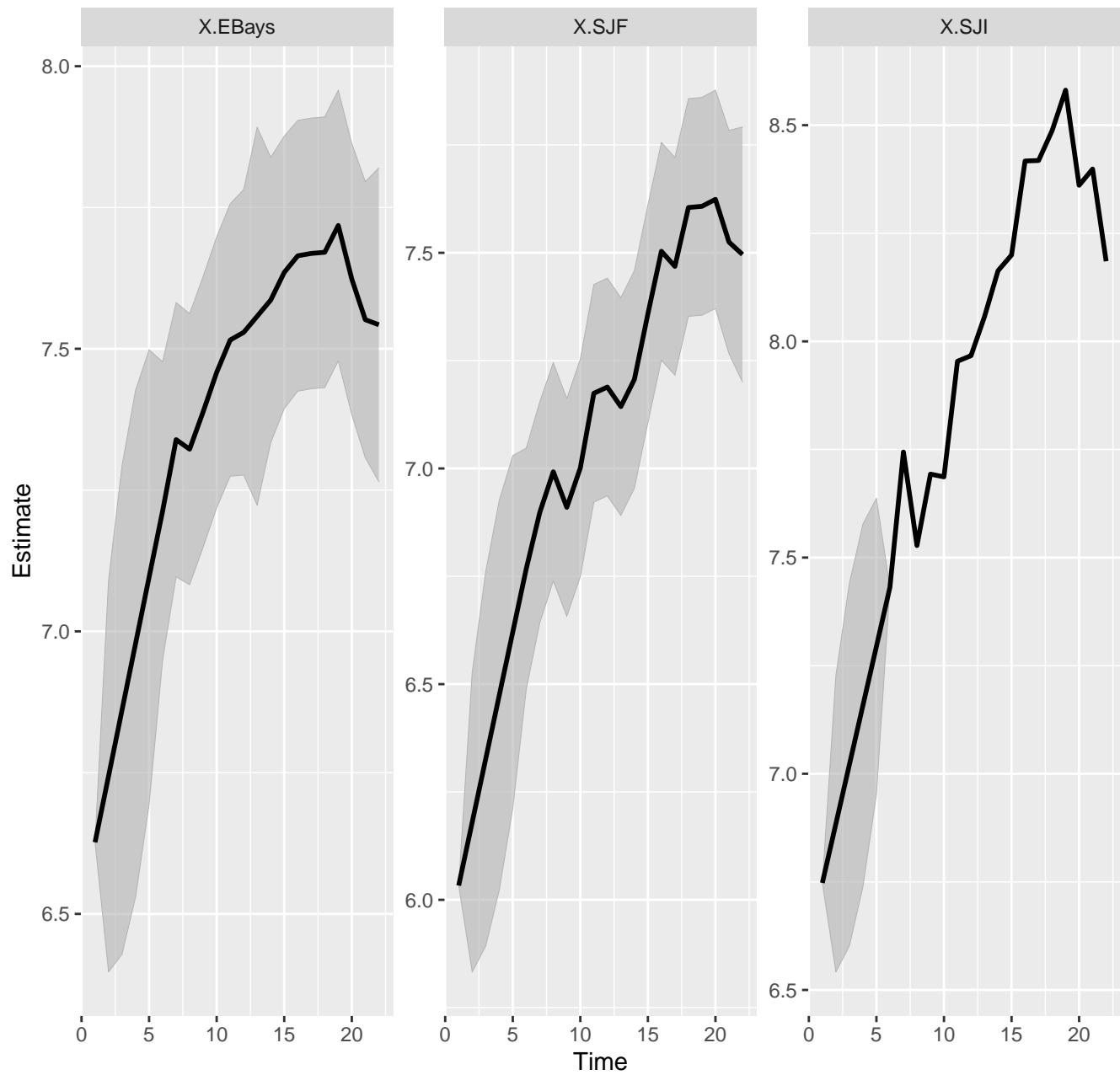
SJF + CI**SJI + CI****EBays + CI**

SJF**SJI****EBays**

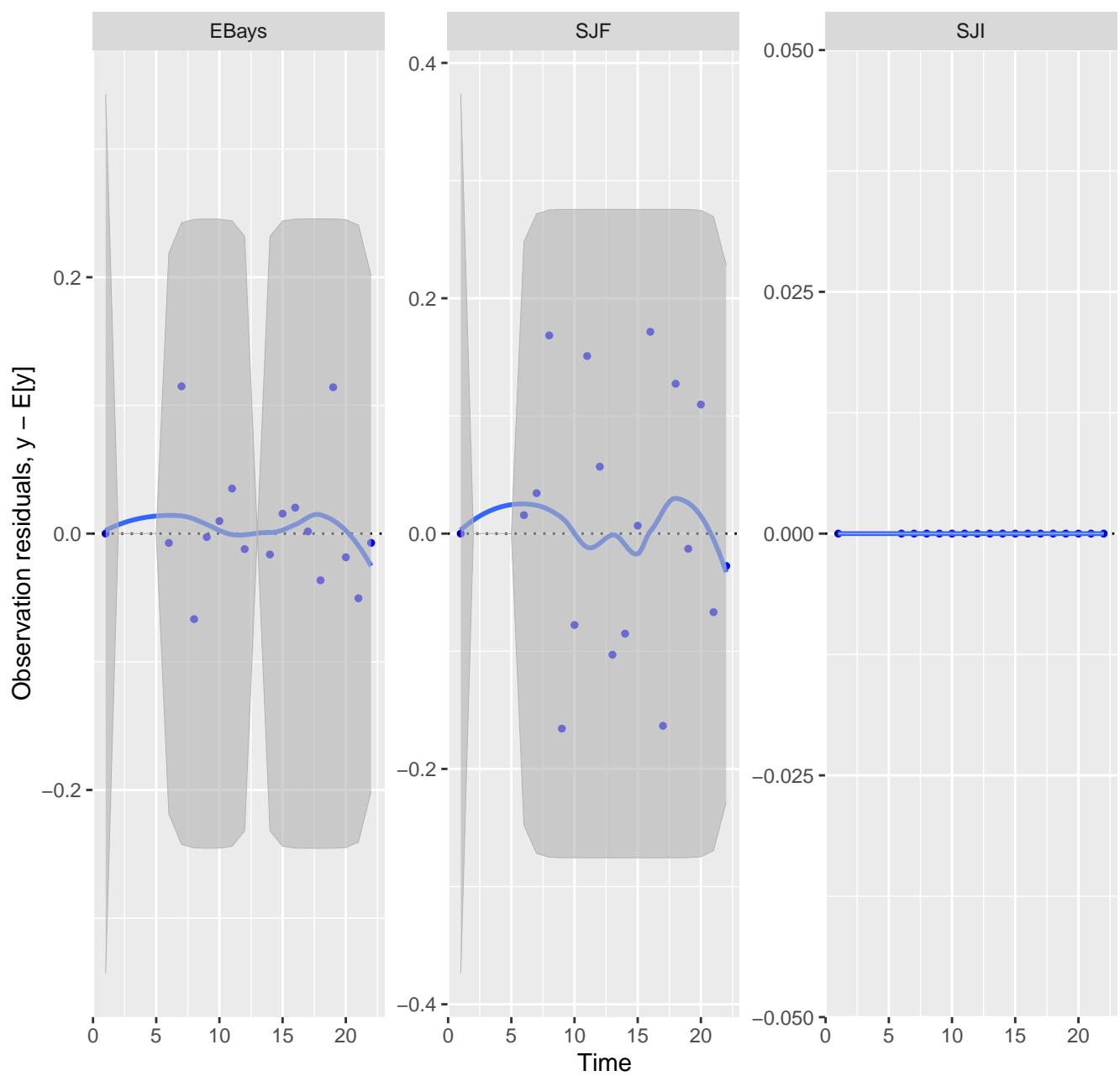
Model fitted Y + CI



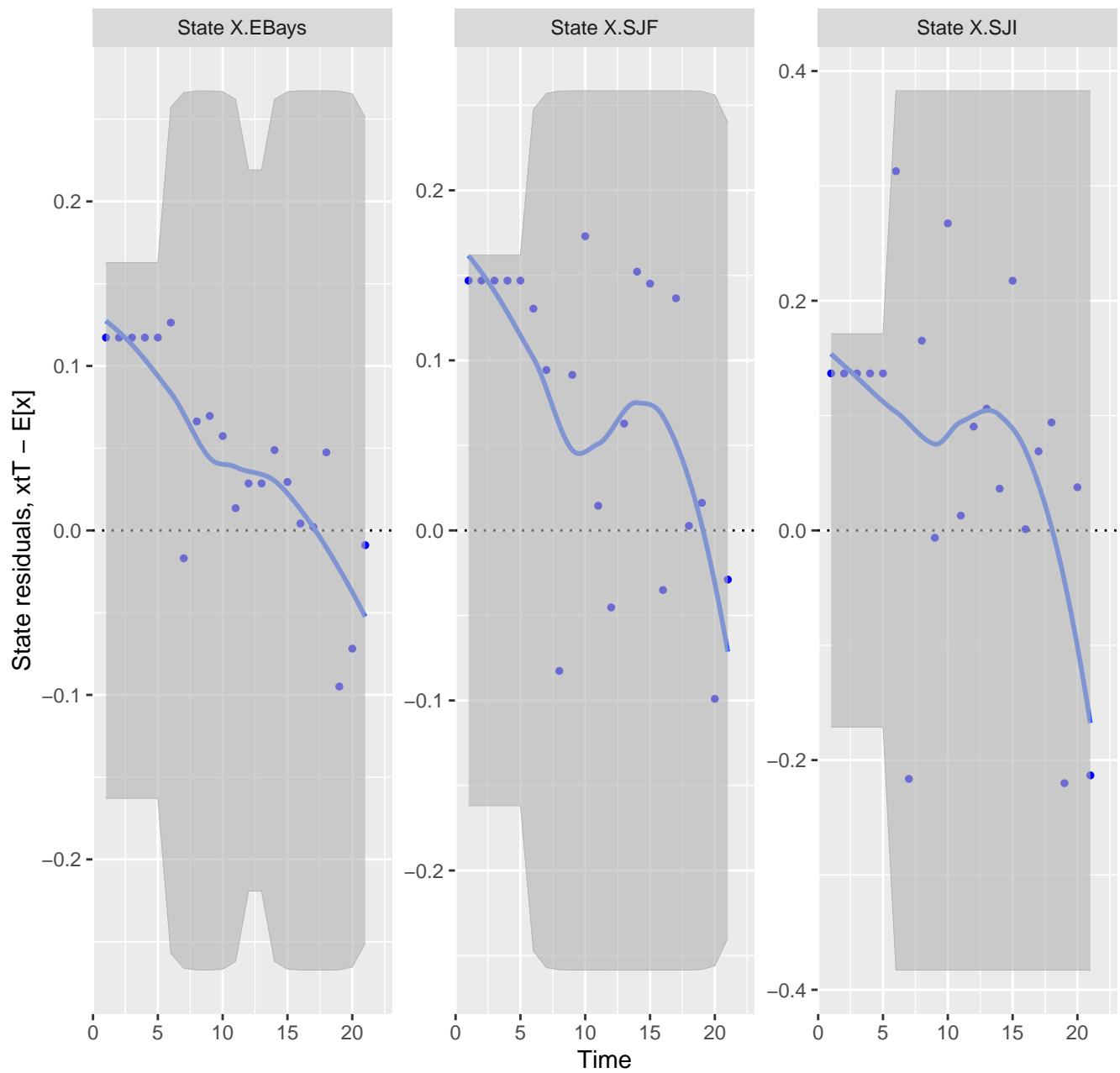
States



Model residuals

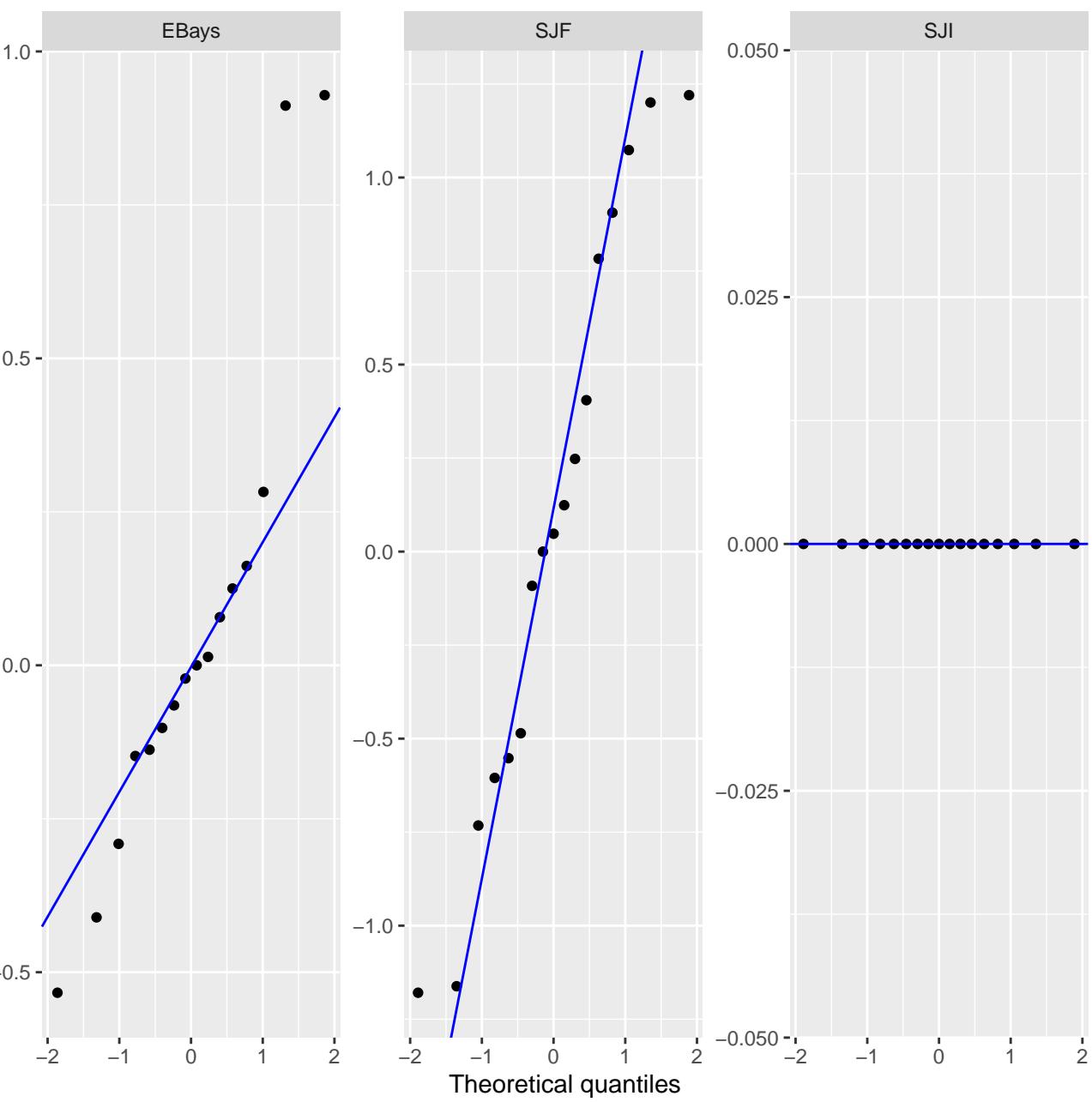


State residuals

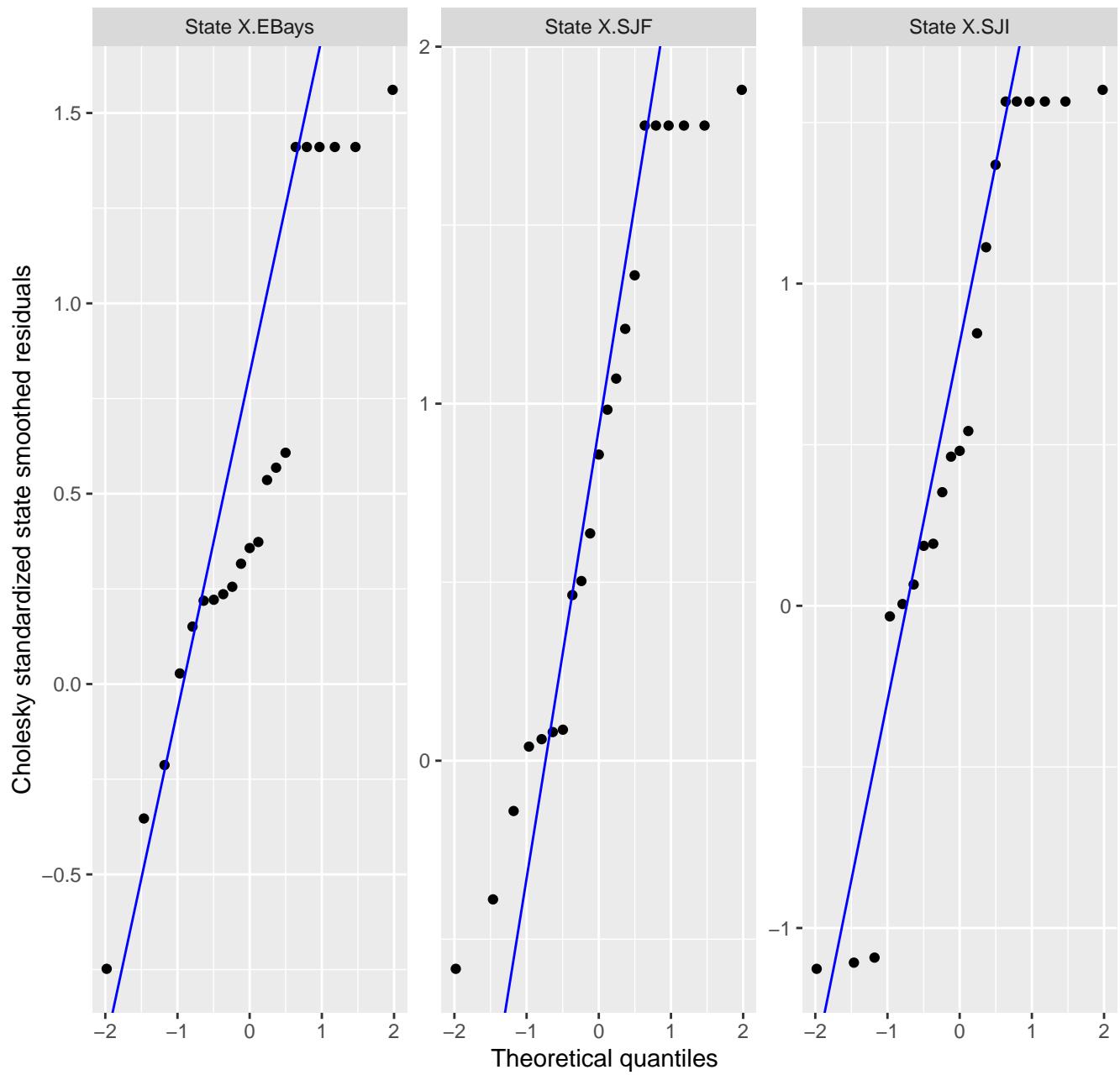


Model residuals normality test

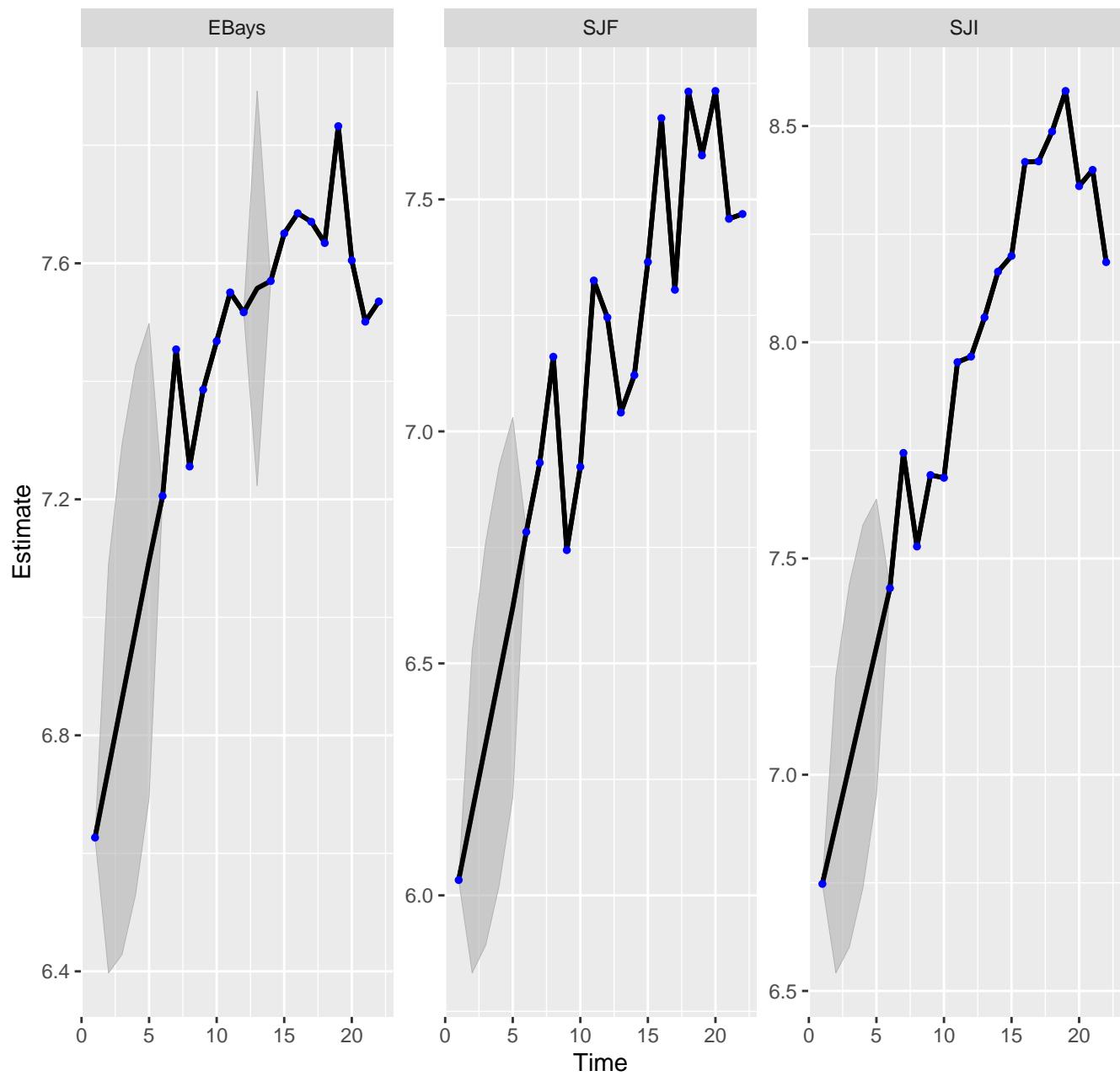
Cholesky standardized model smoothed residuals



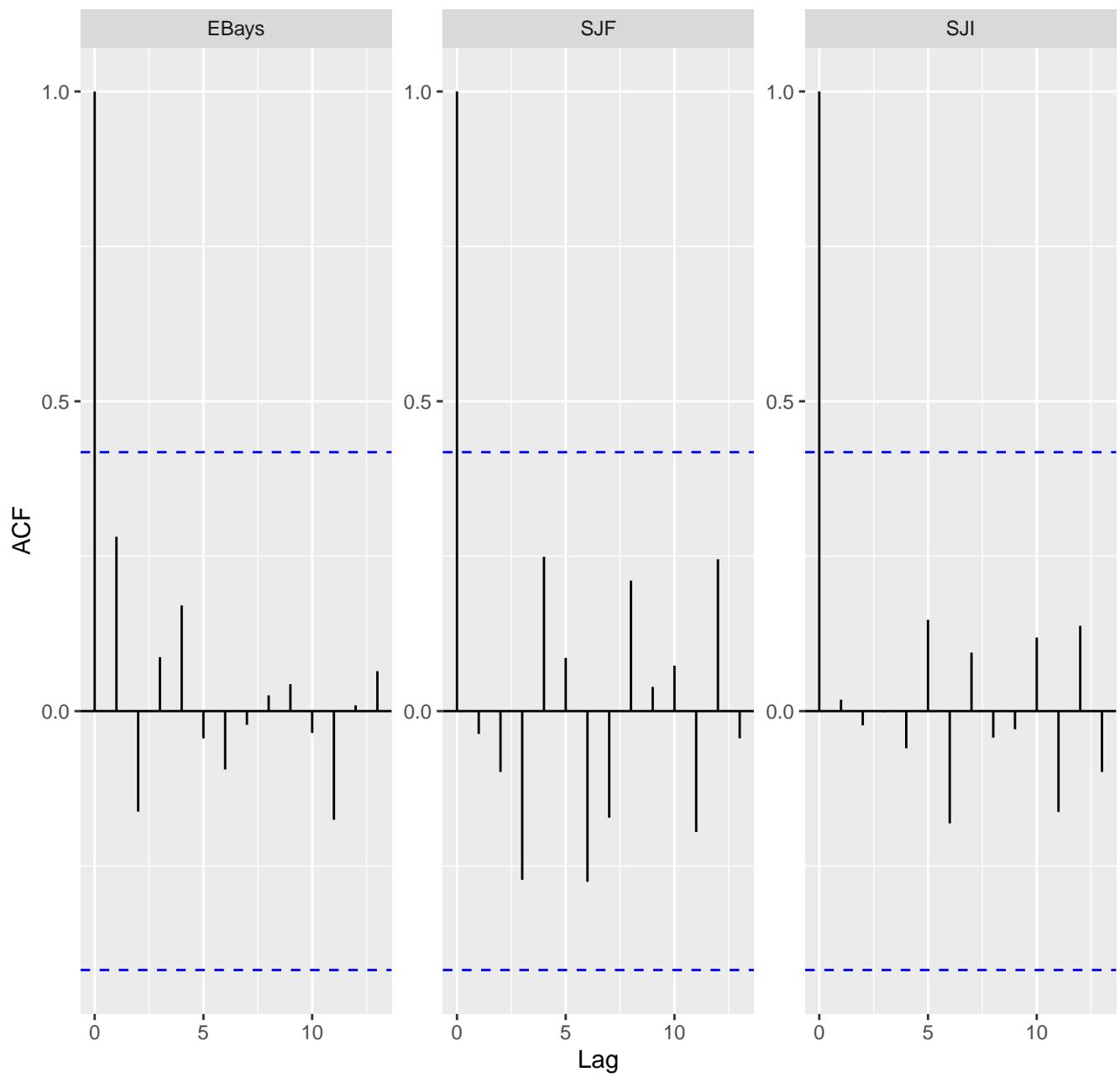
State residuals normality test



Expected value of Y conditioned on data

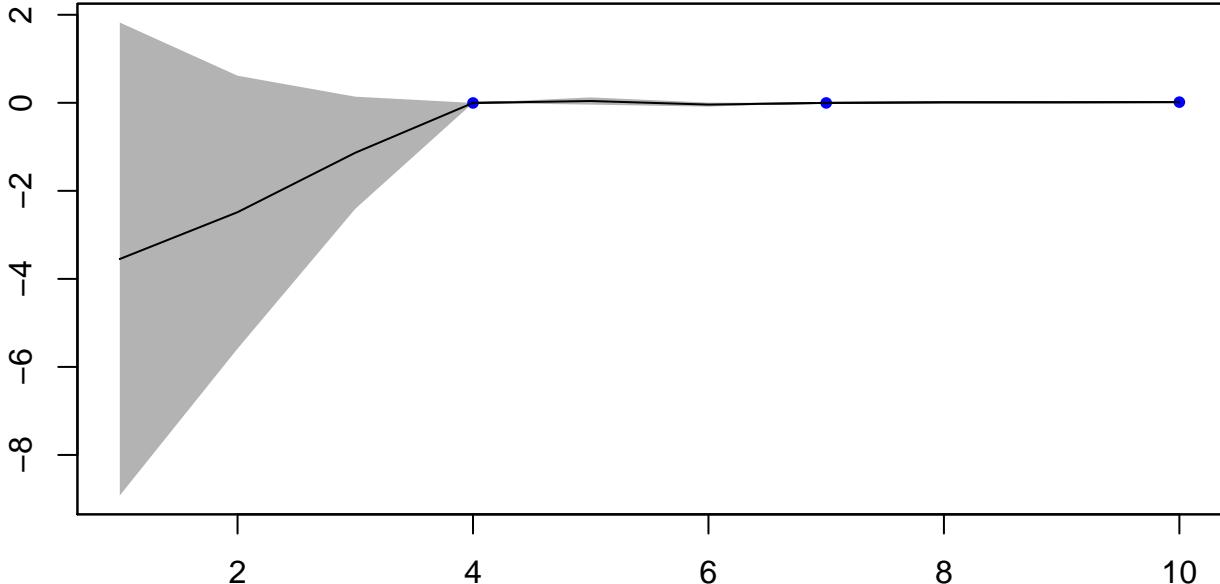


Model innovations residuals ACF



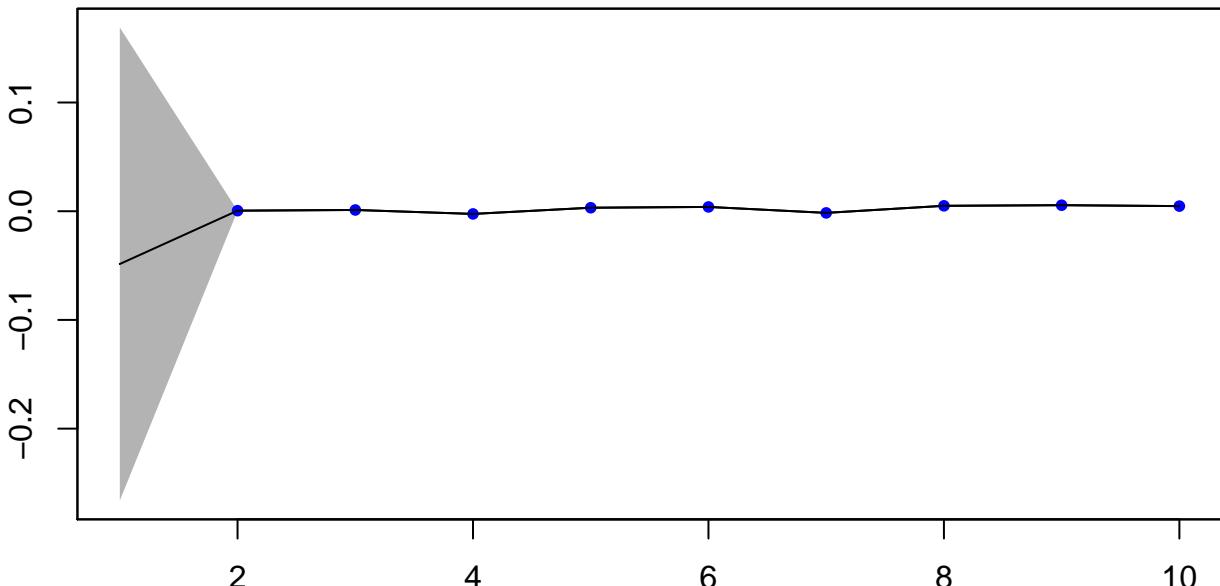
Y1 + CI

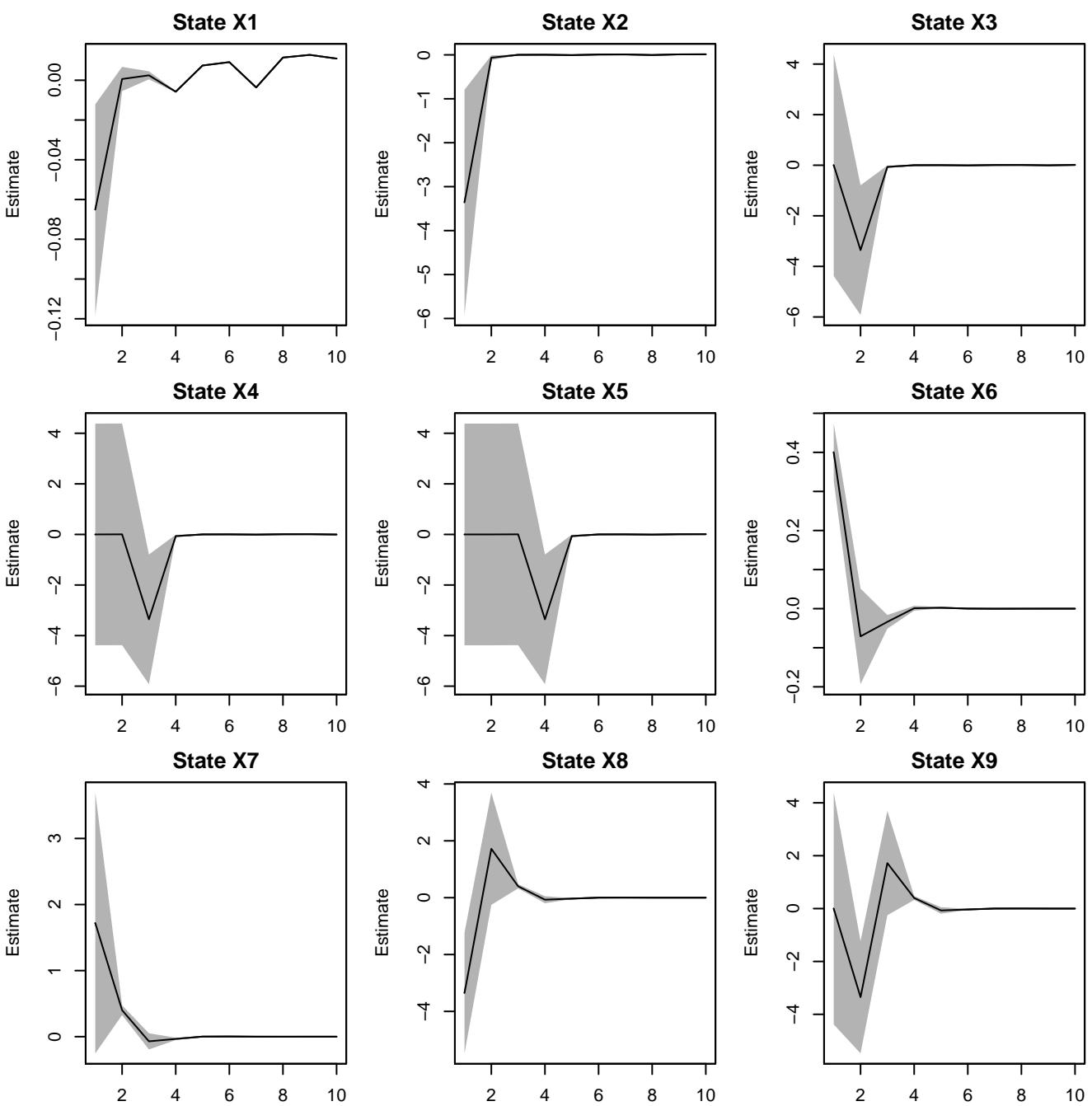
Estimate

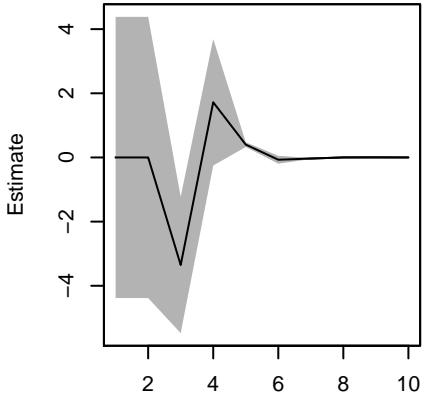
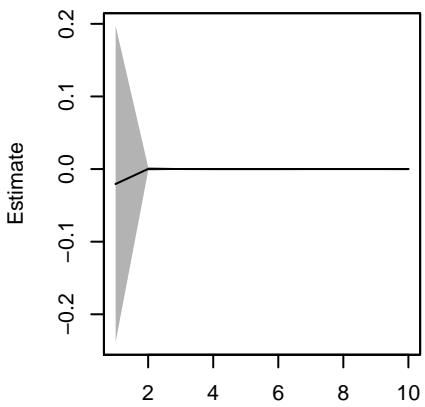
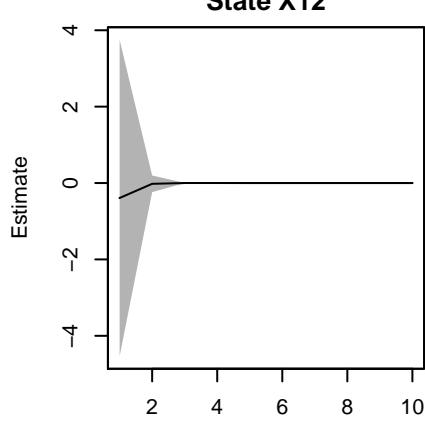


Y2 + CI

Estimate

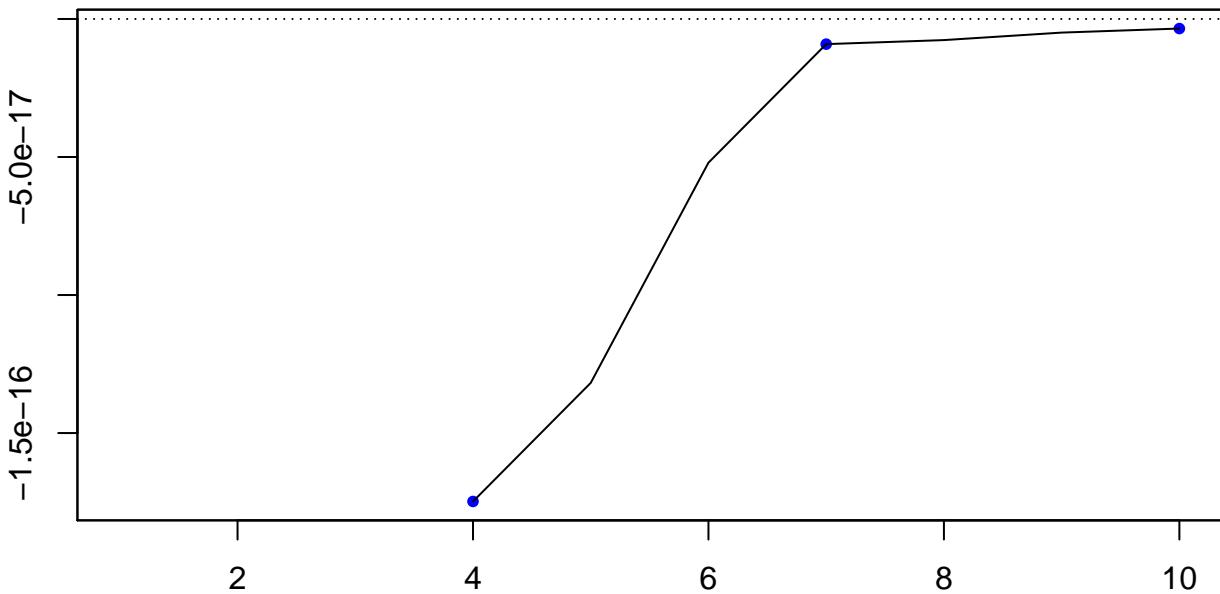




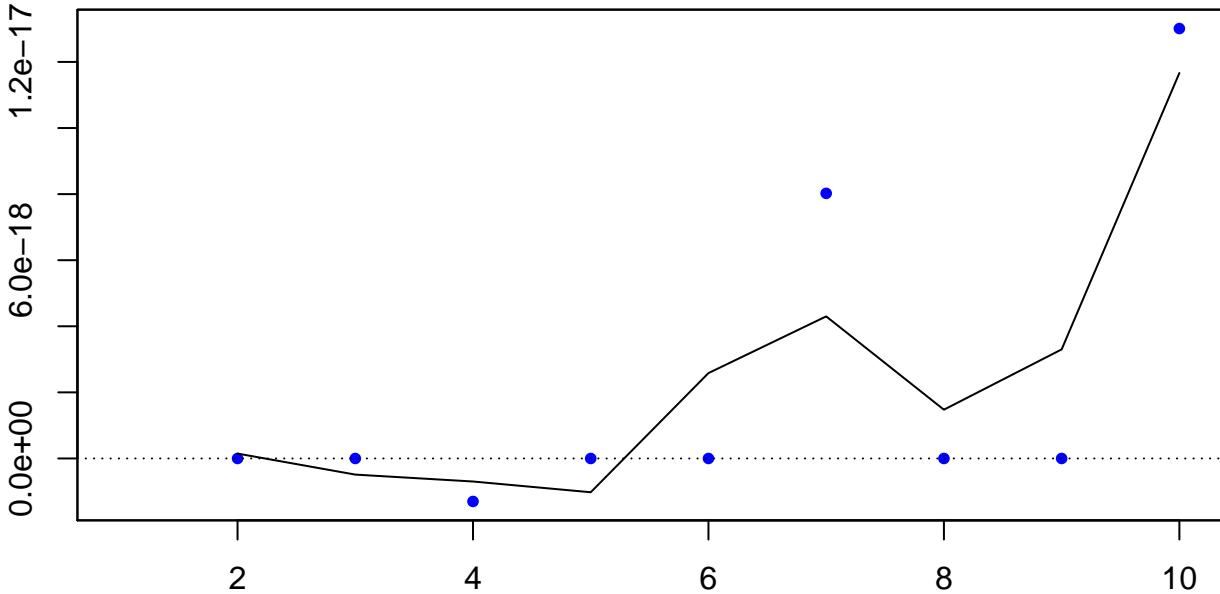
State X10**State X11****State X12**

Observation residuals, $y - E[y]$

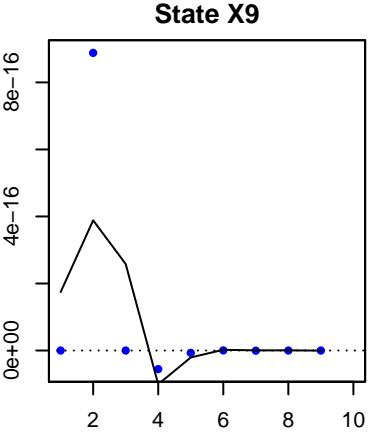
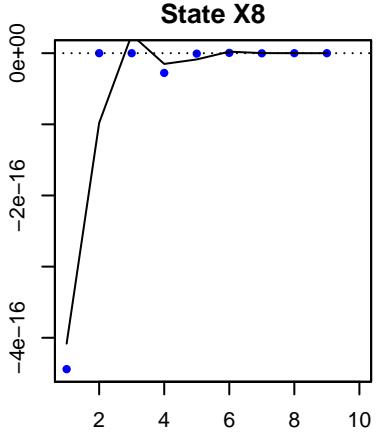
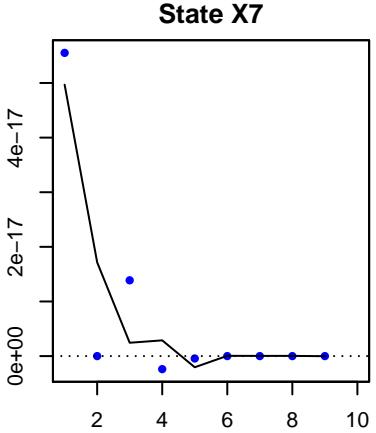
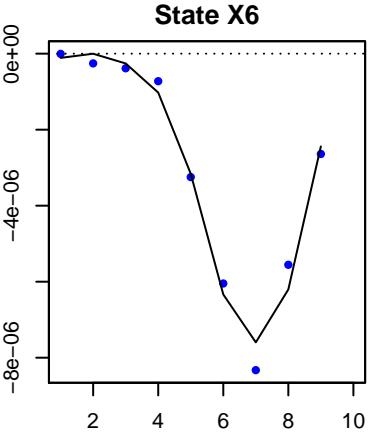
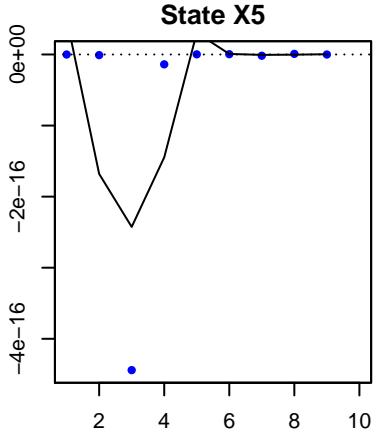
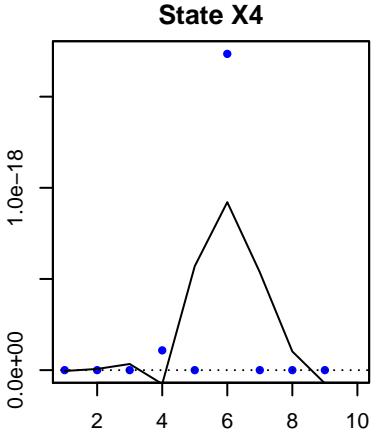
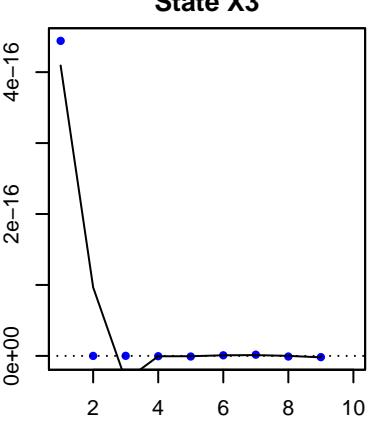
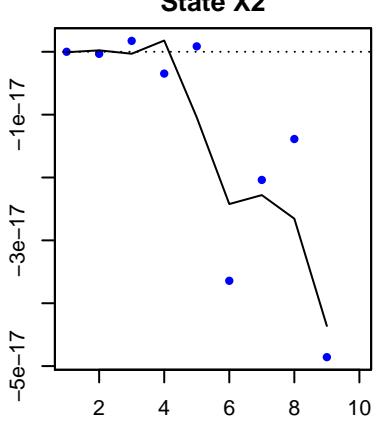
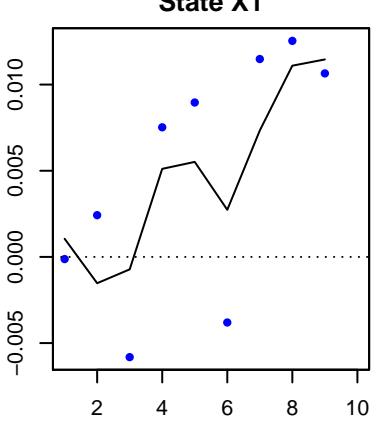
Y1



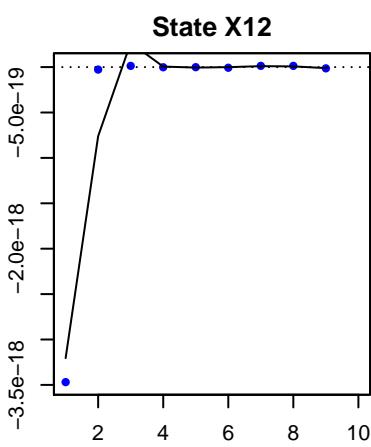
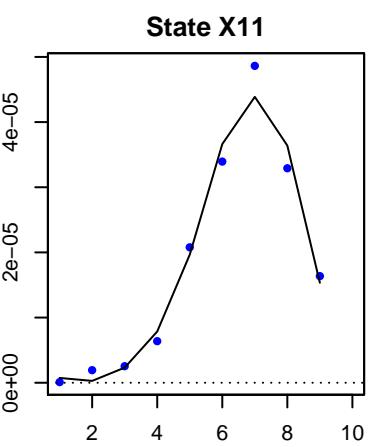
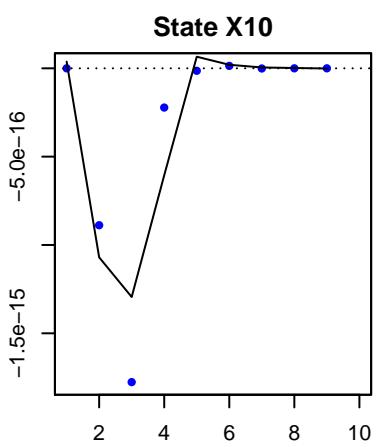
Y2



State residuals, $|x_t - E[x]|$

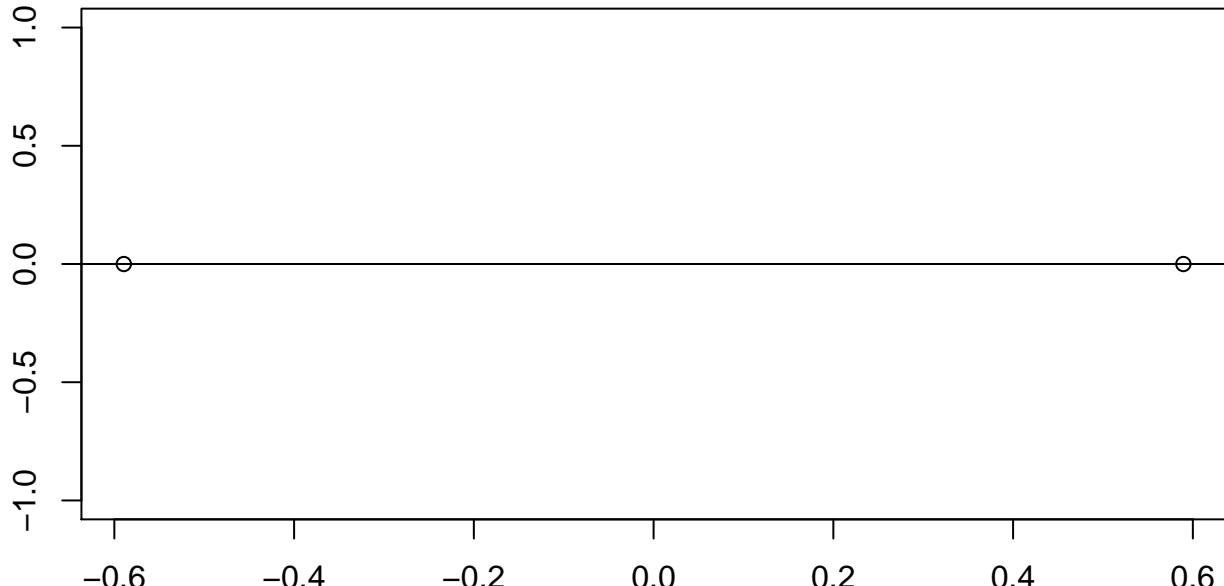


State residuals, $|x_t - E[x]|$



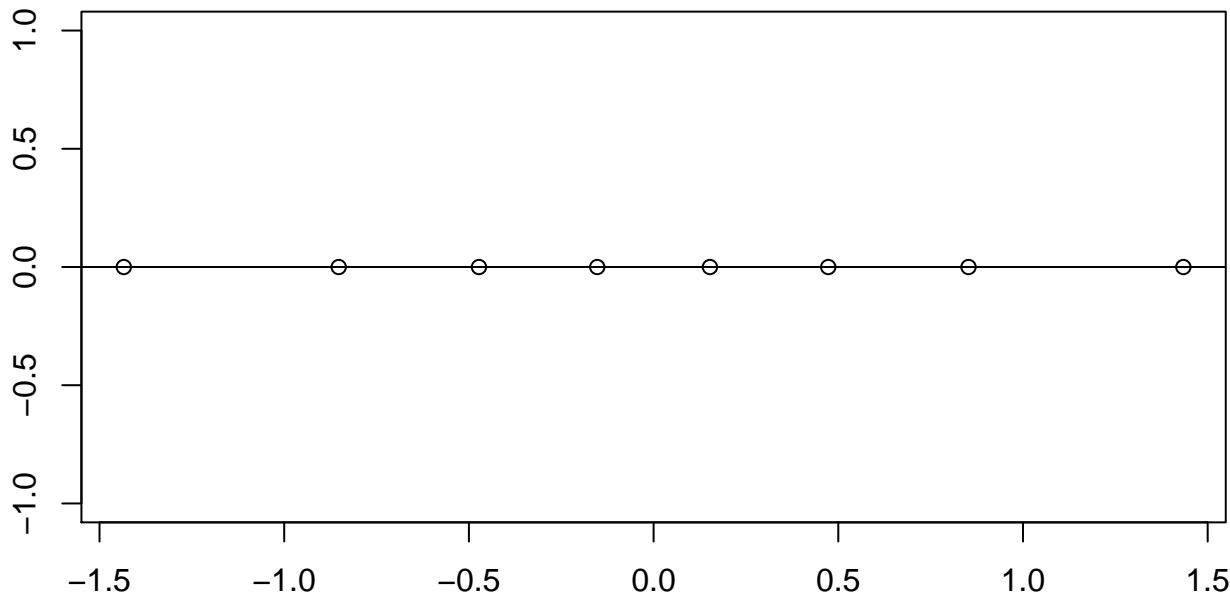
Sample Quantiles

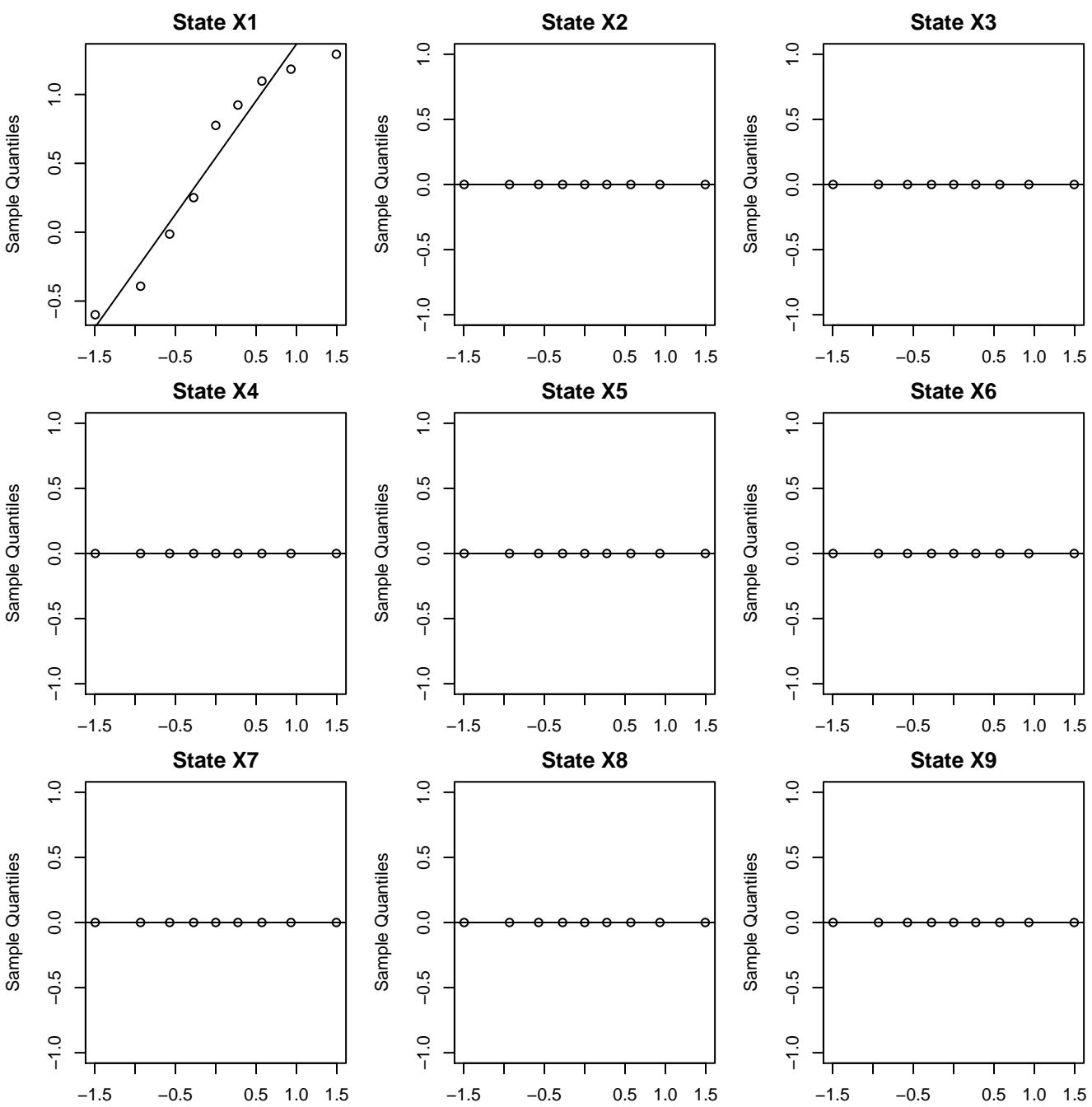
Y_1

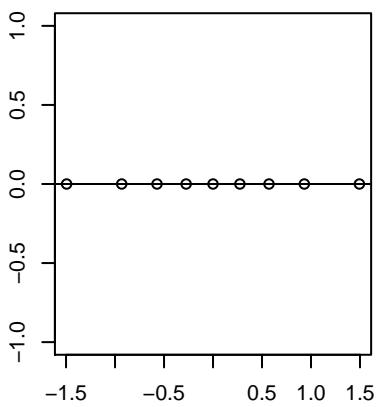
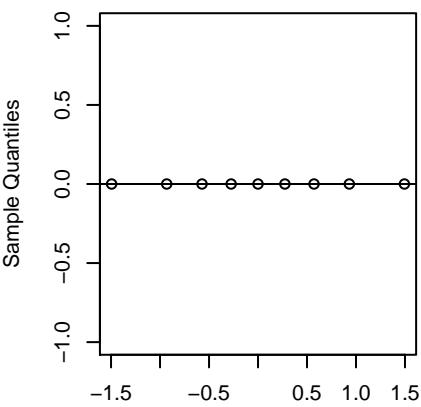
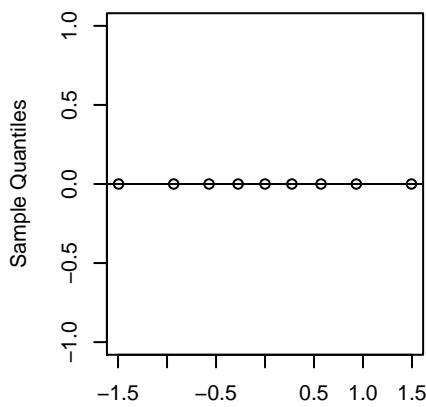


Y_2

Sample Quantiles

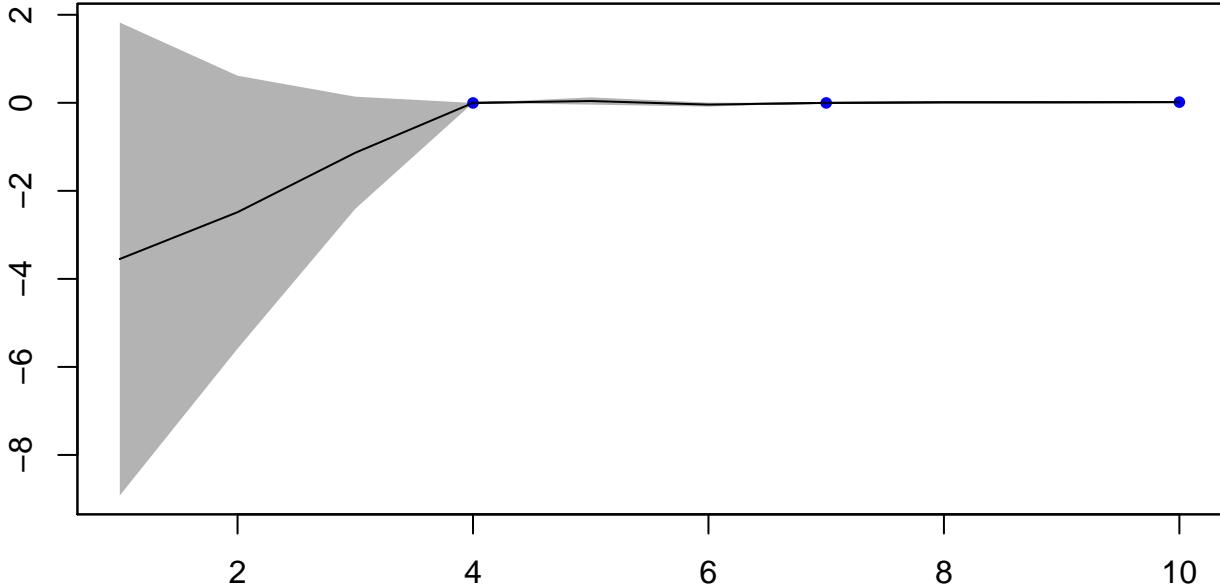




State X10**State X11****State X12**

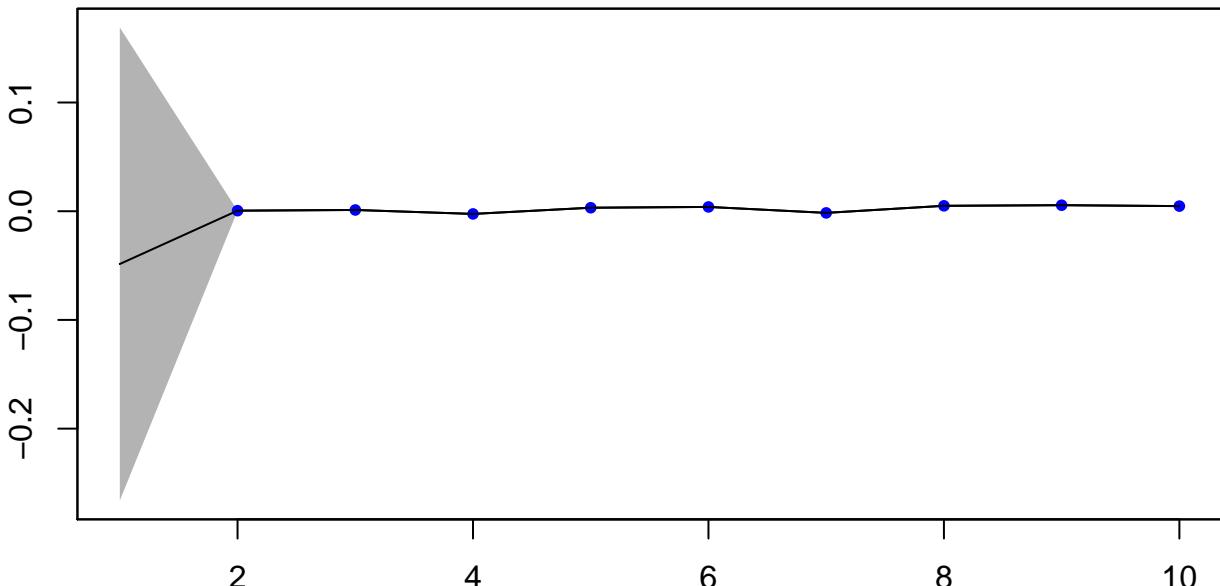
Y1 + CI

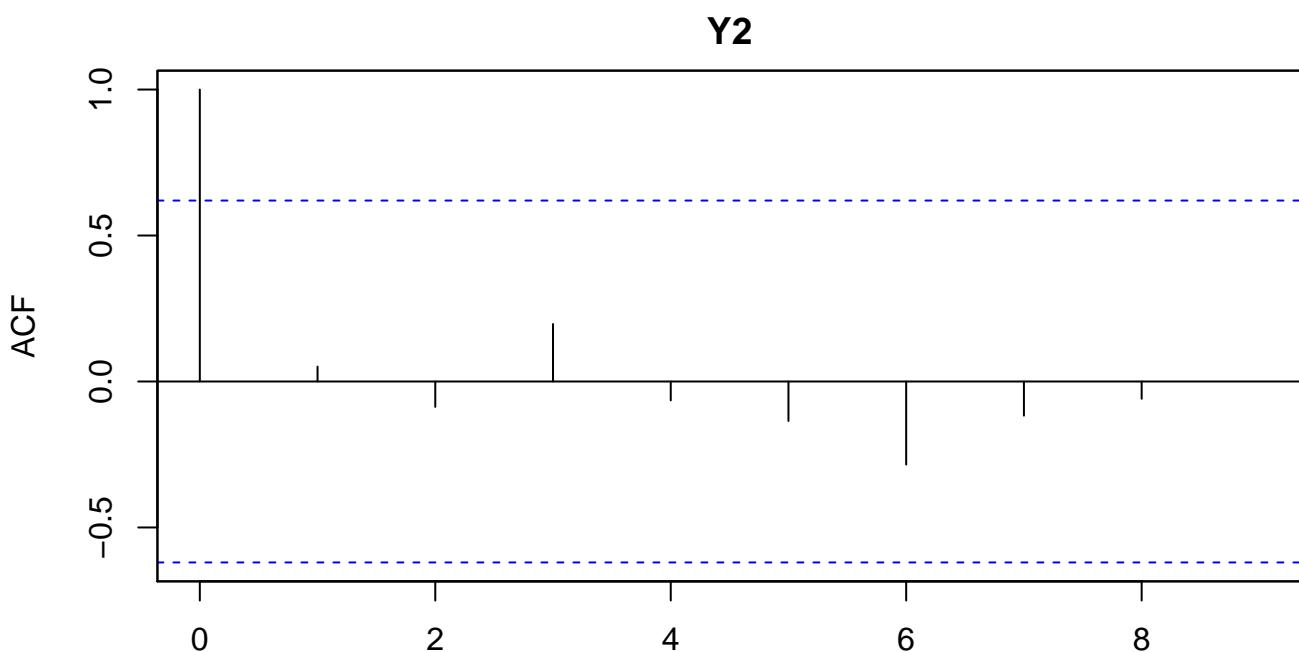
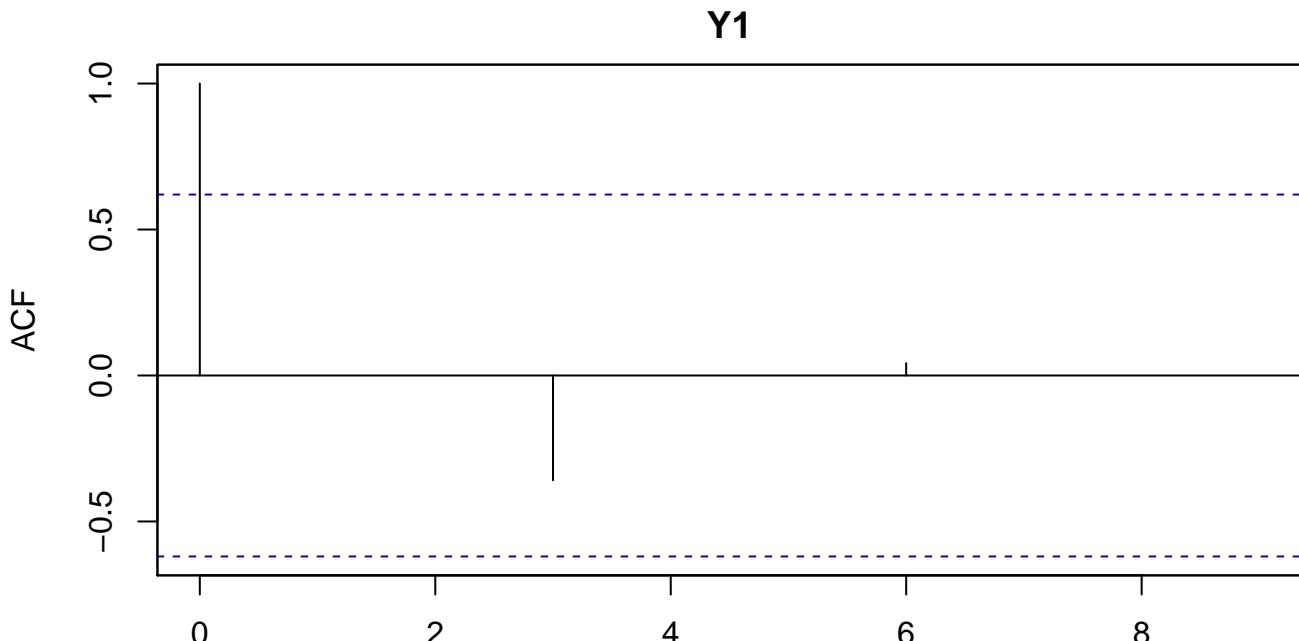
Estimate



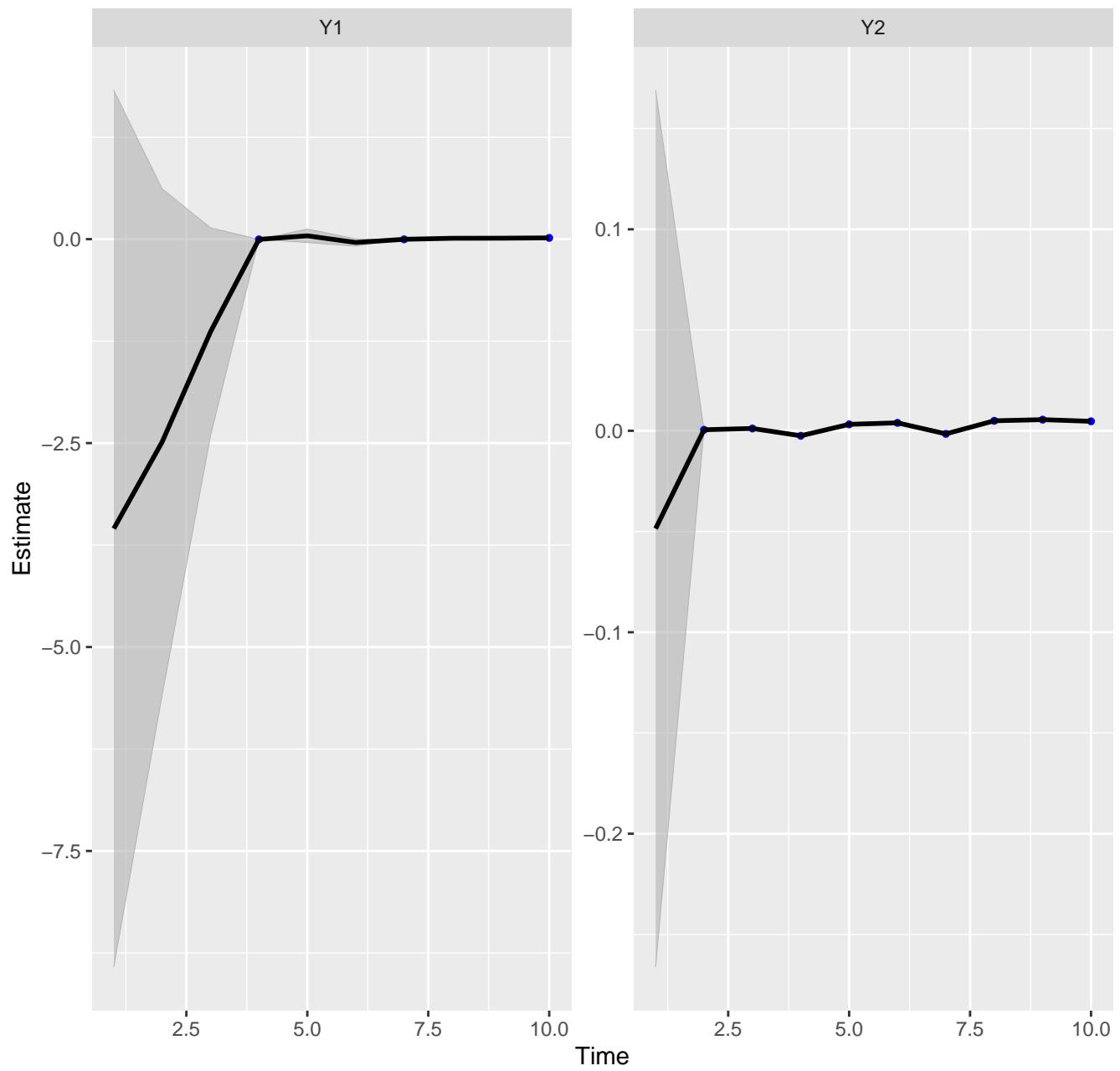
Y2 + CI

Estimate

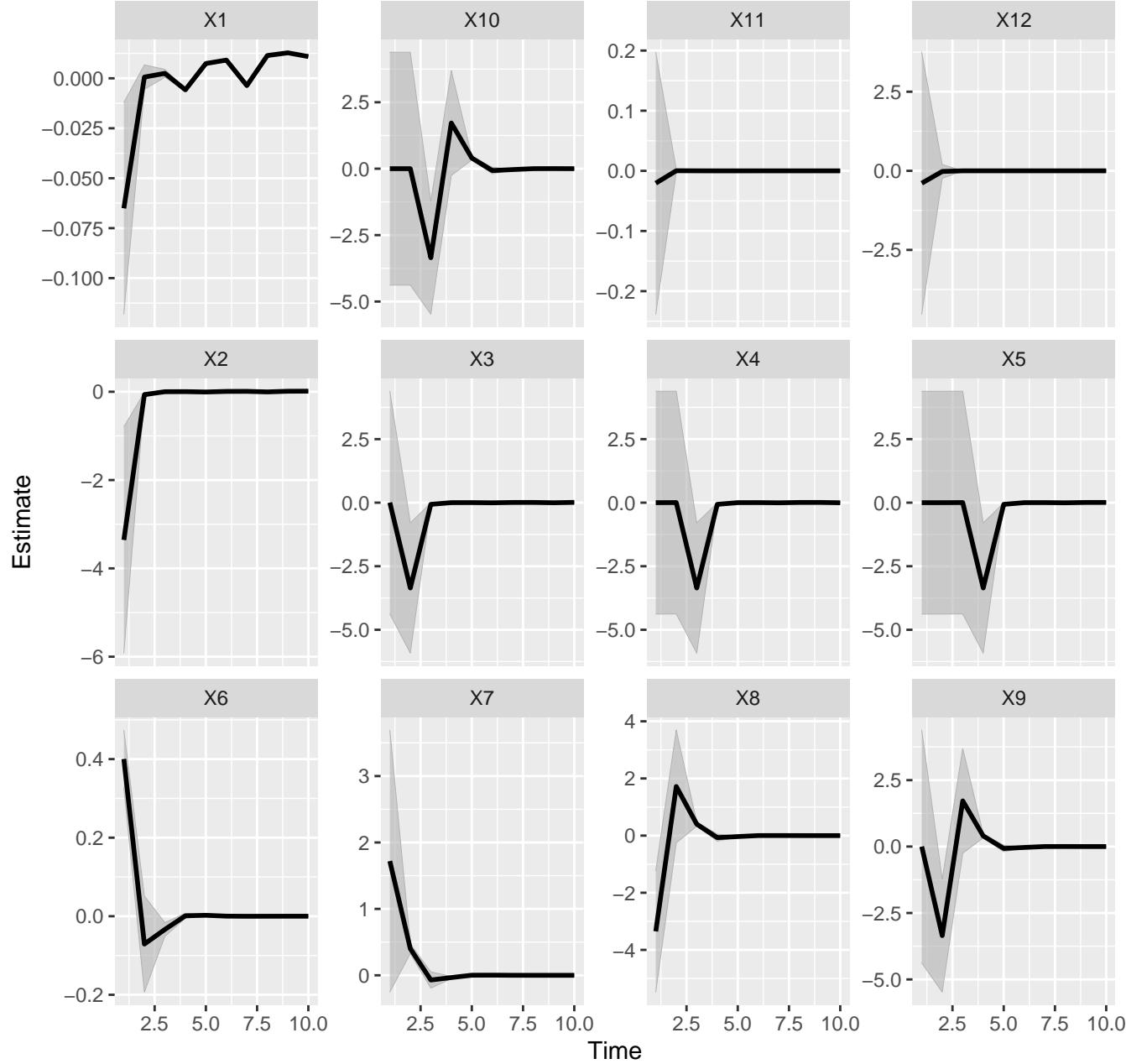




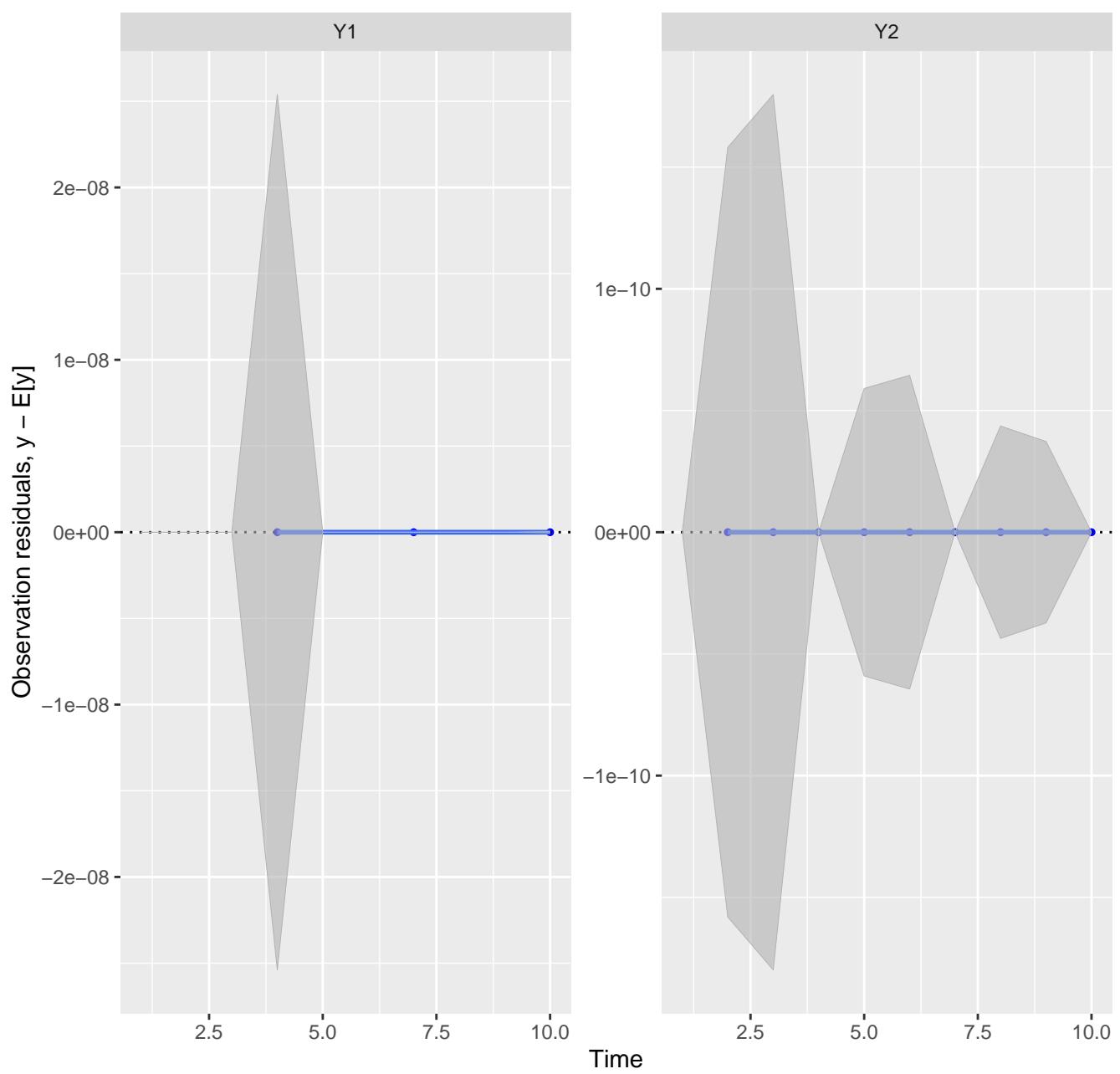
Model fitted Y + CI



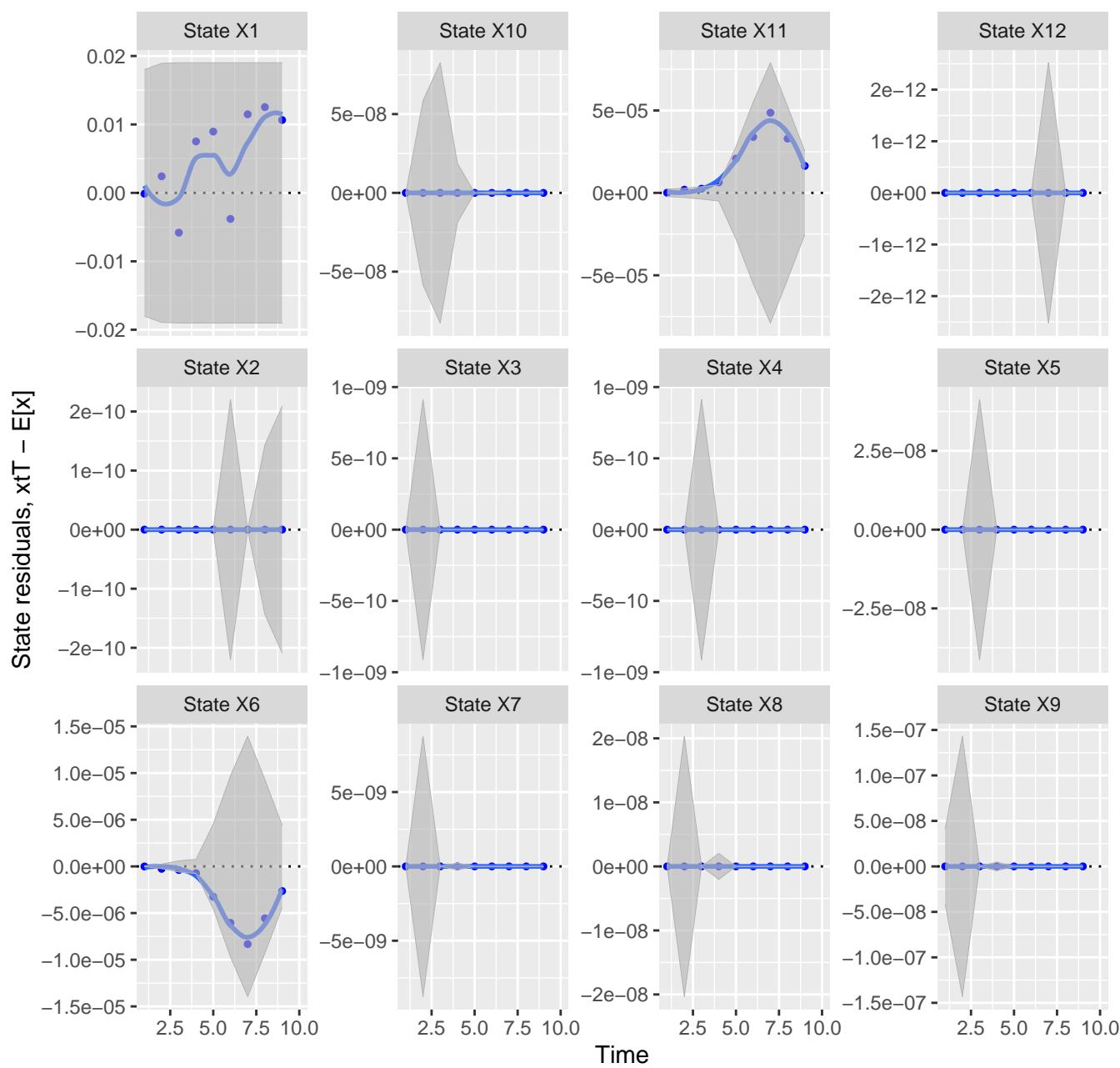
States



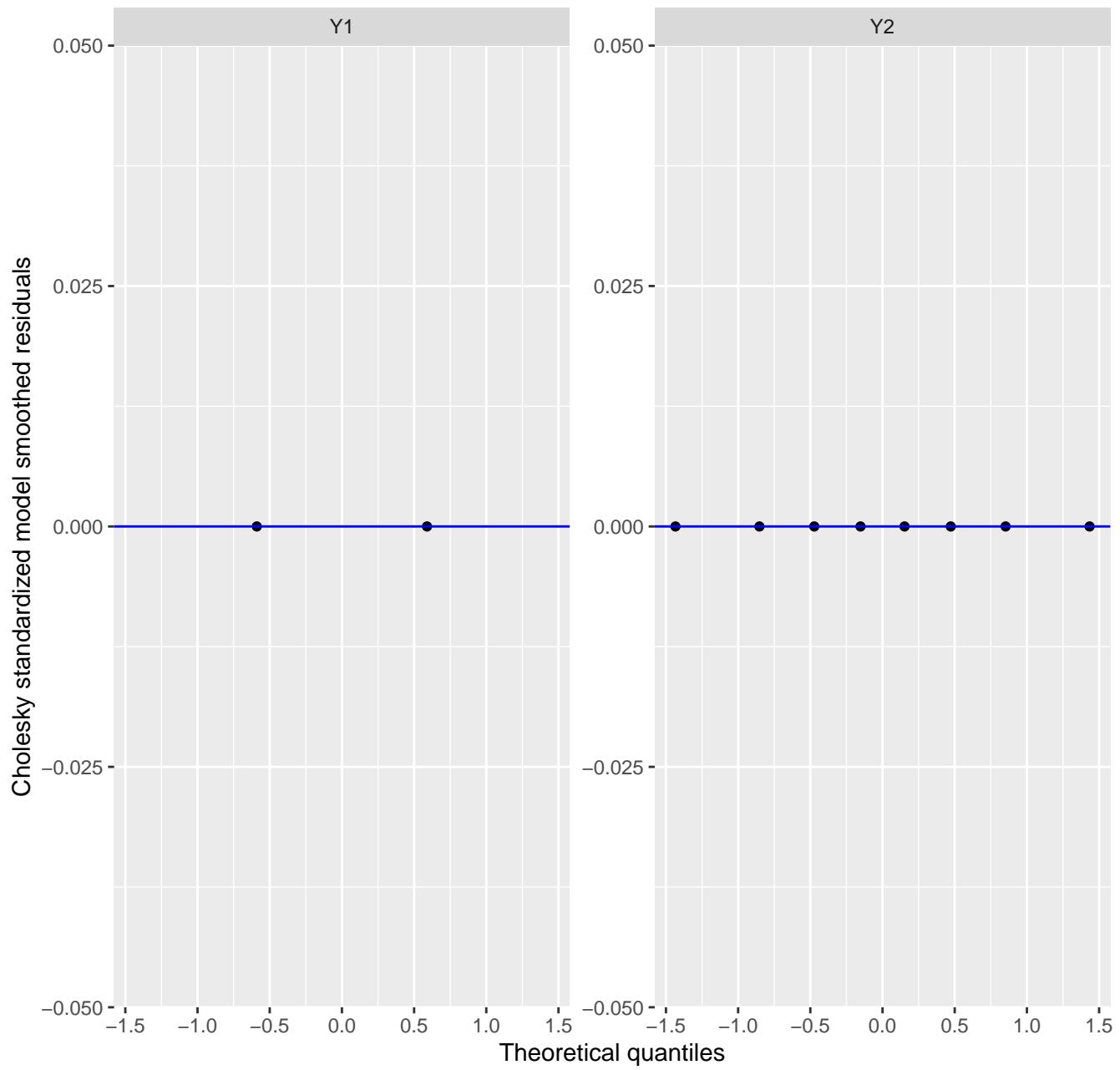
Model residuals



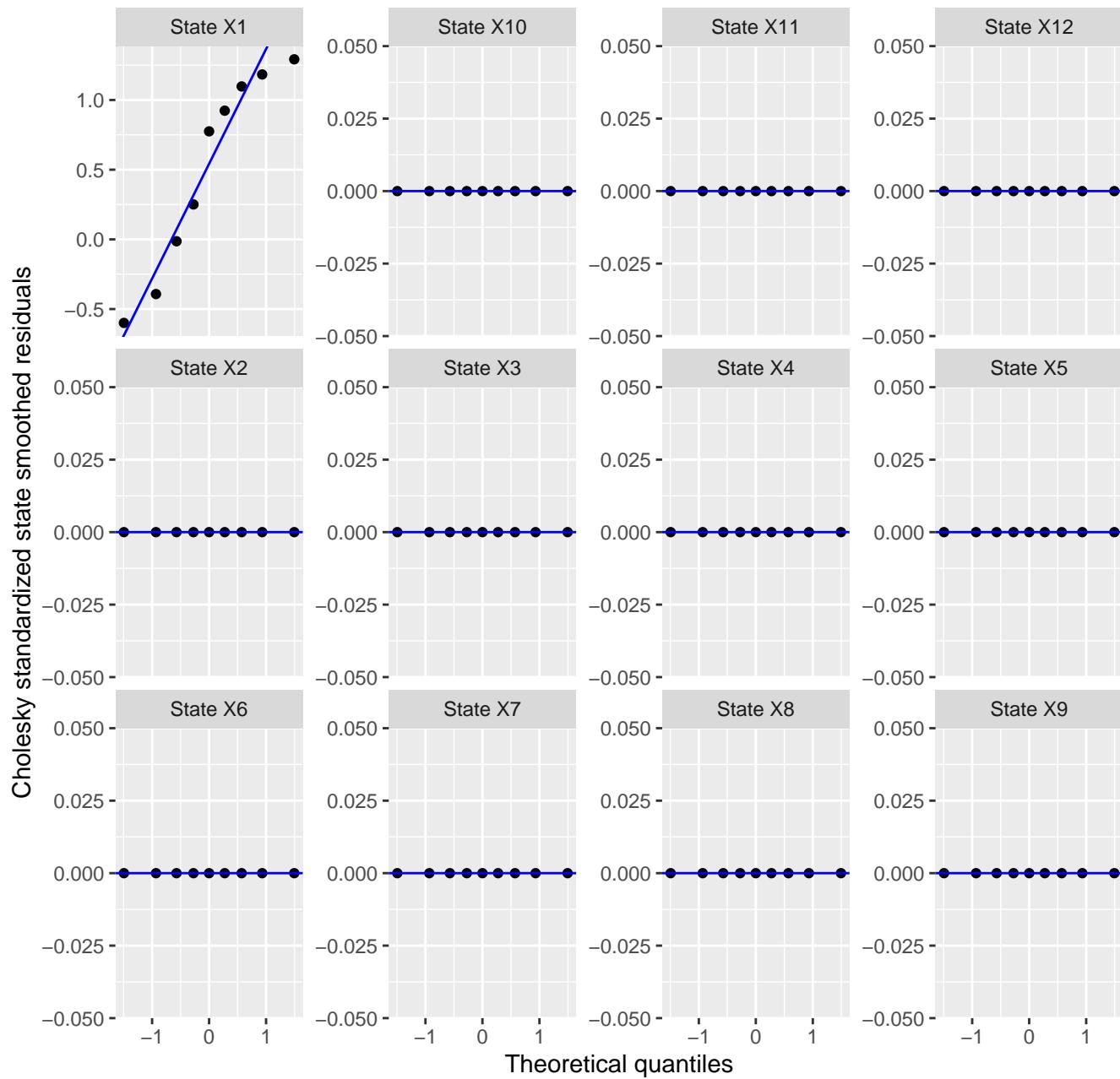
State residuals



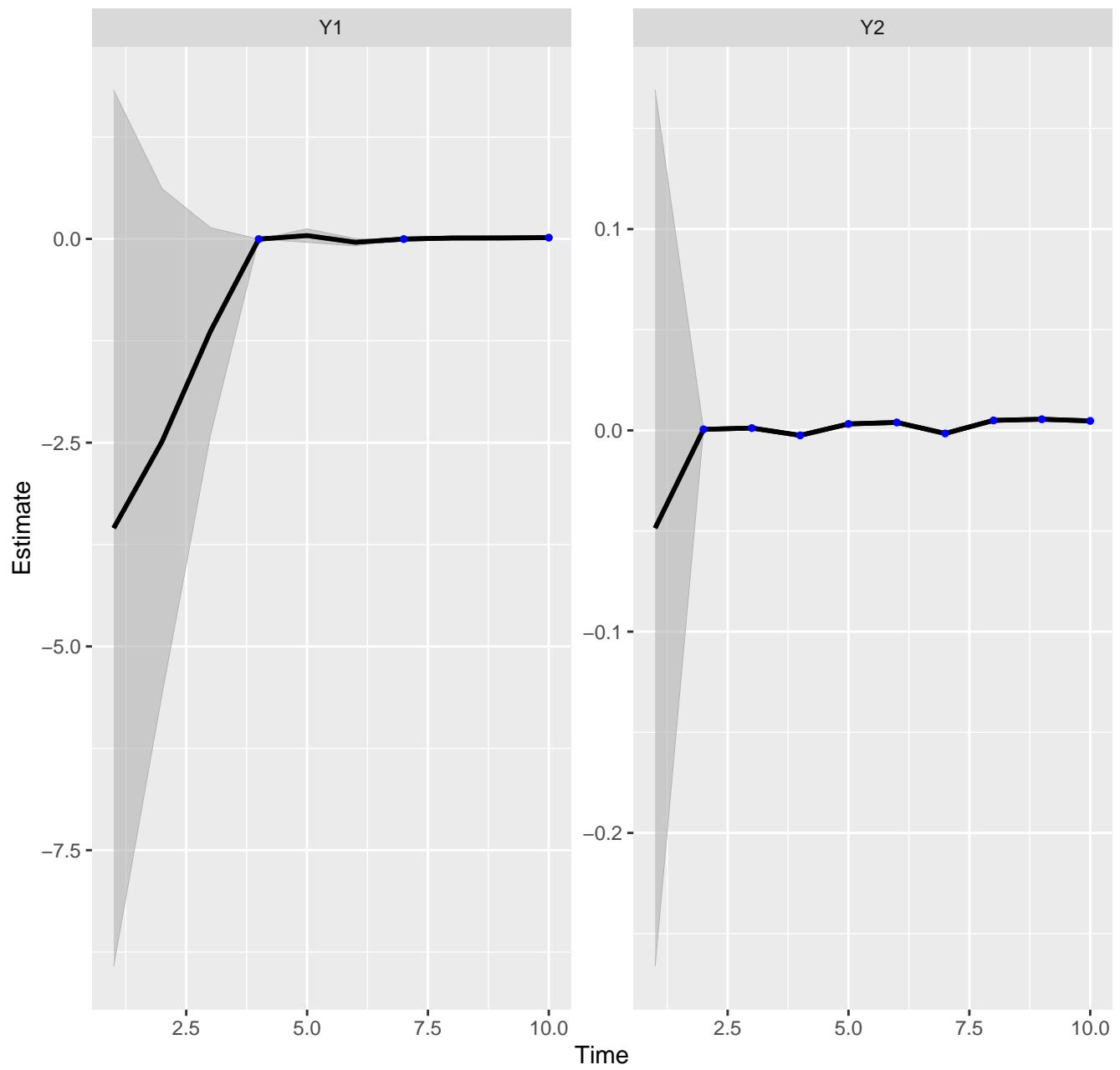
Model residuals normality test



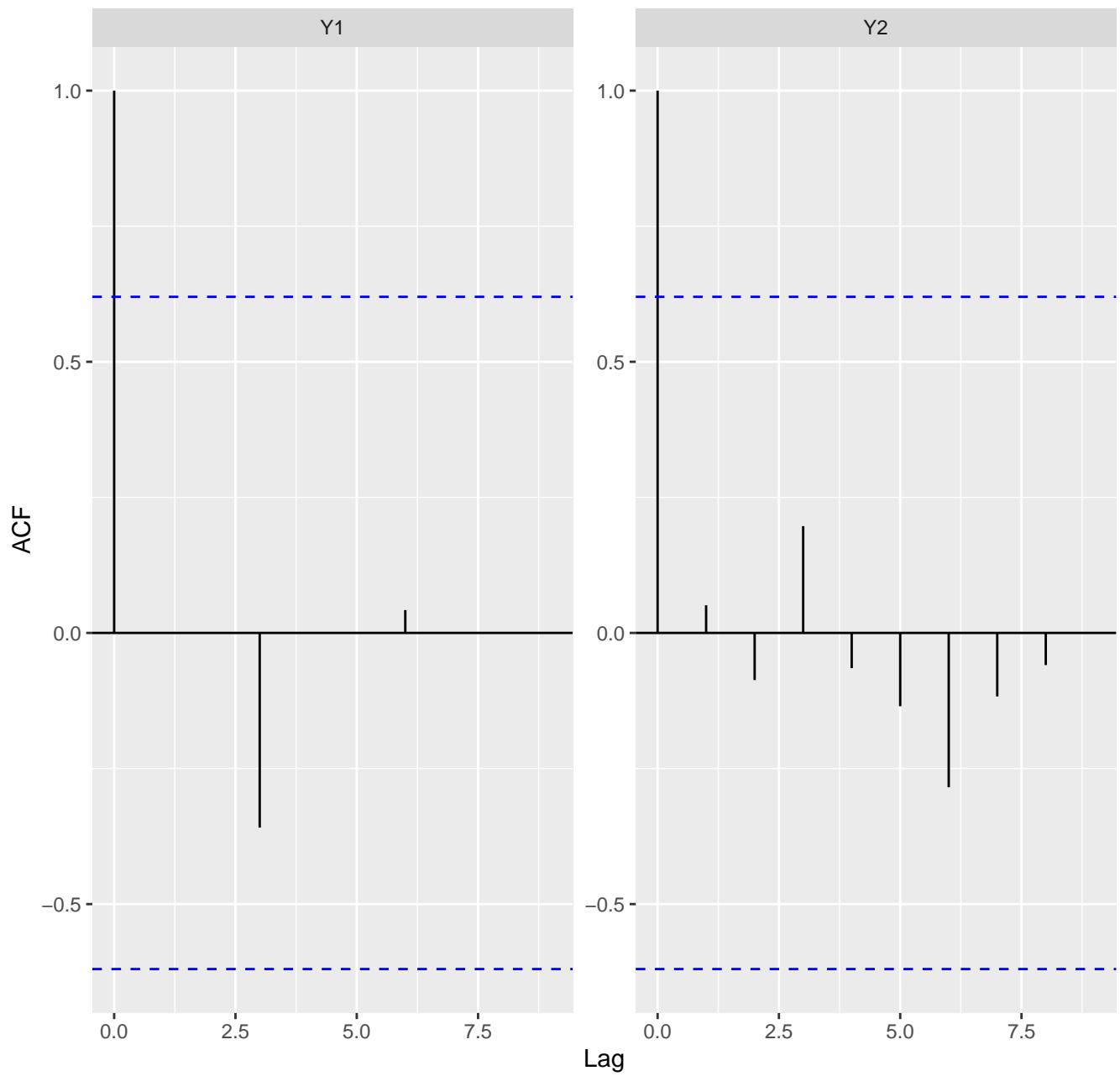
State residuals normality test



Expected value of Y conditioned on data

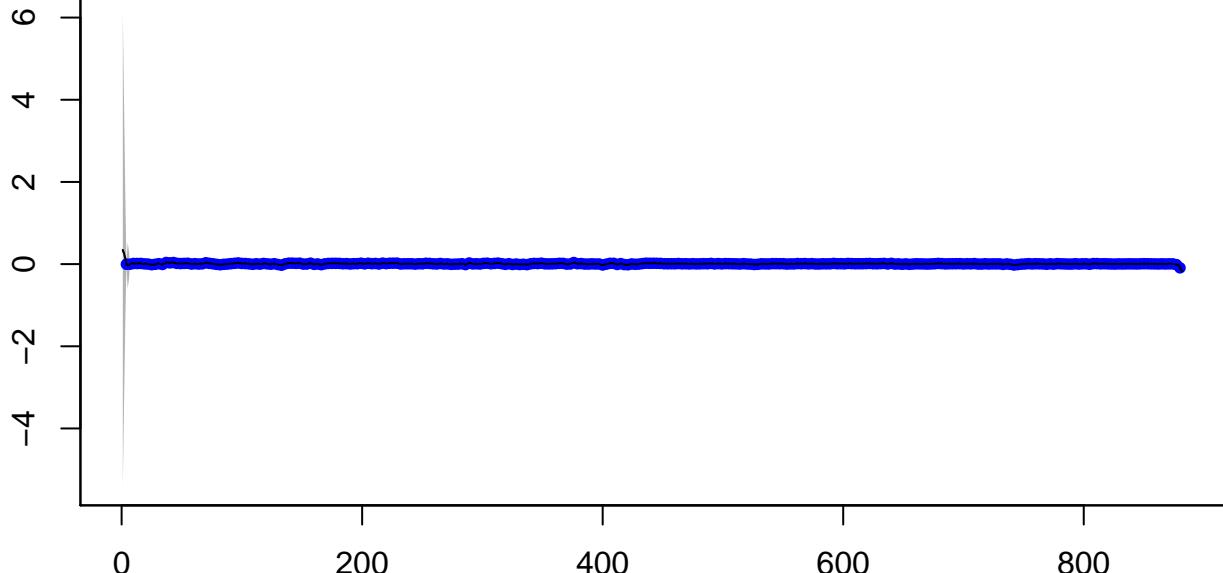


Model innovations residuals ACF



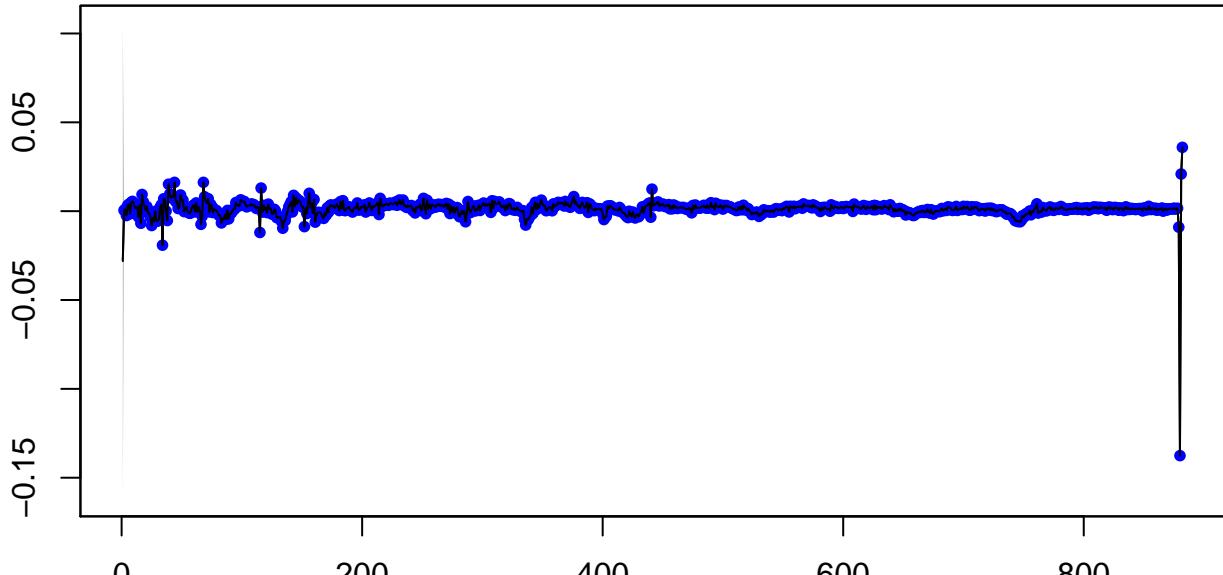
Y1 + CI

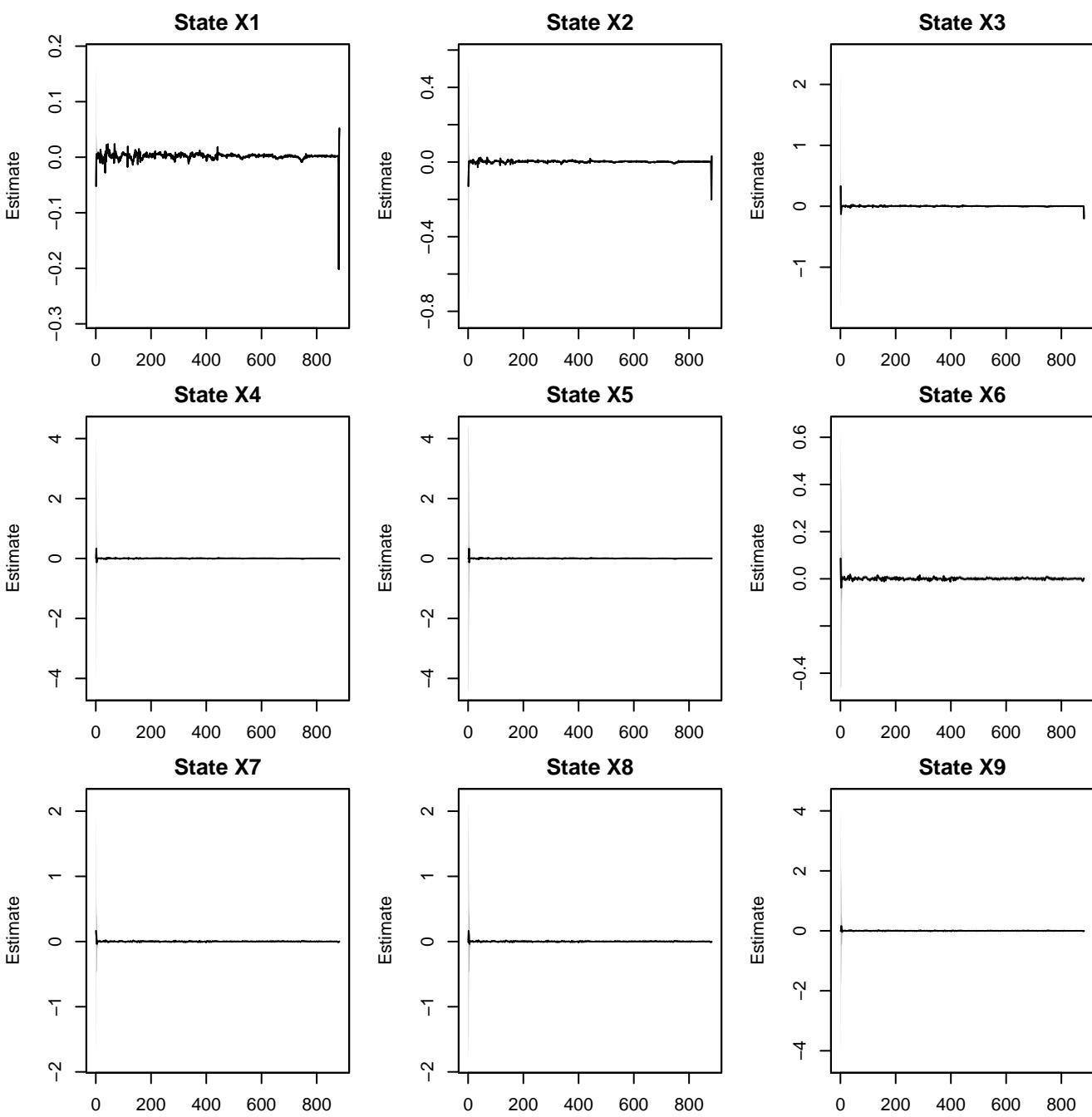
Estimate

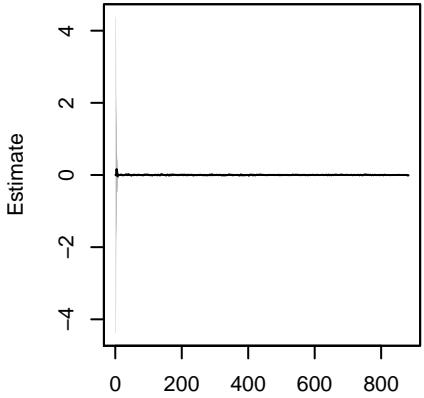
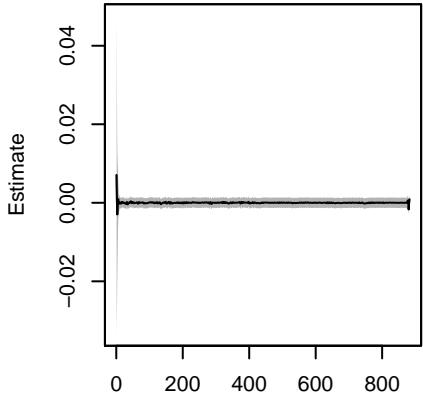
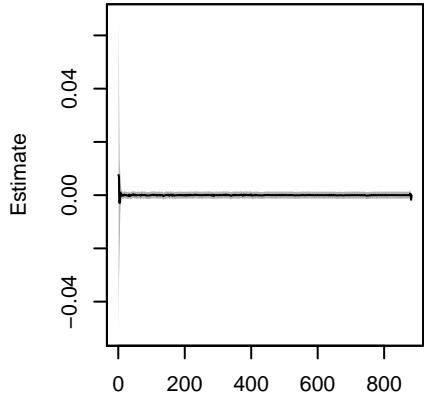


Y2 + CI

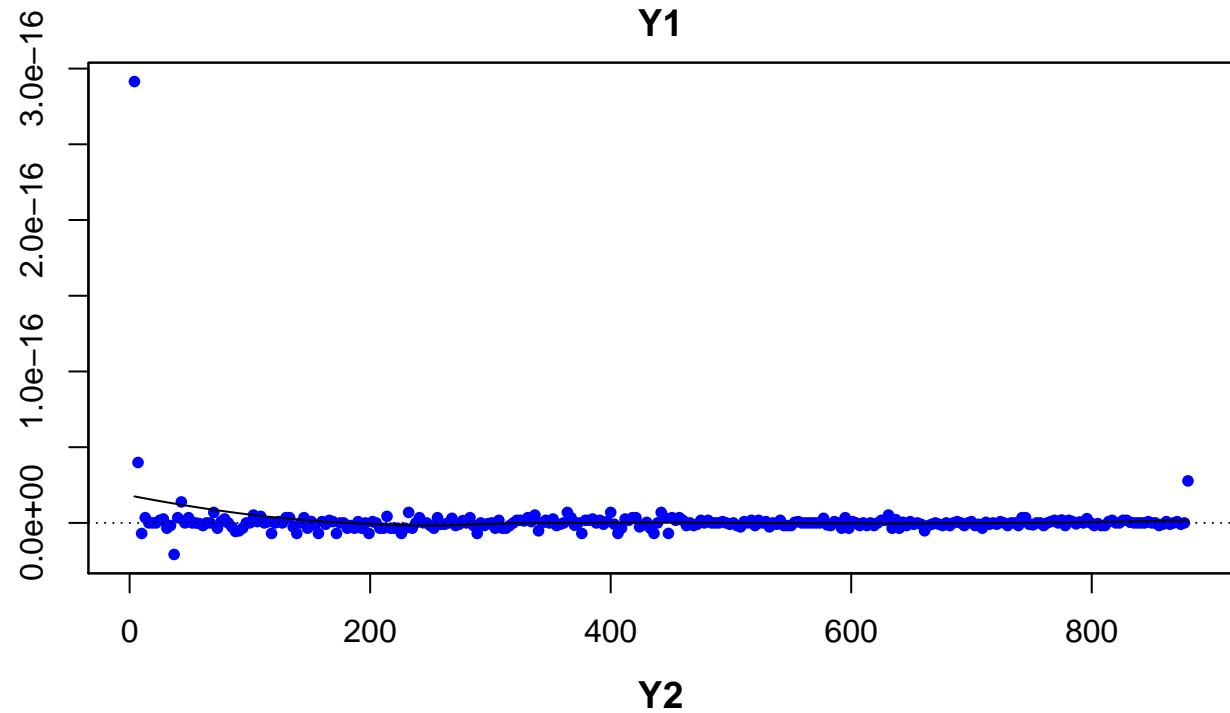
Estimate



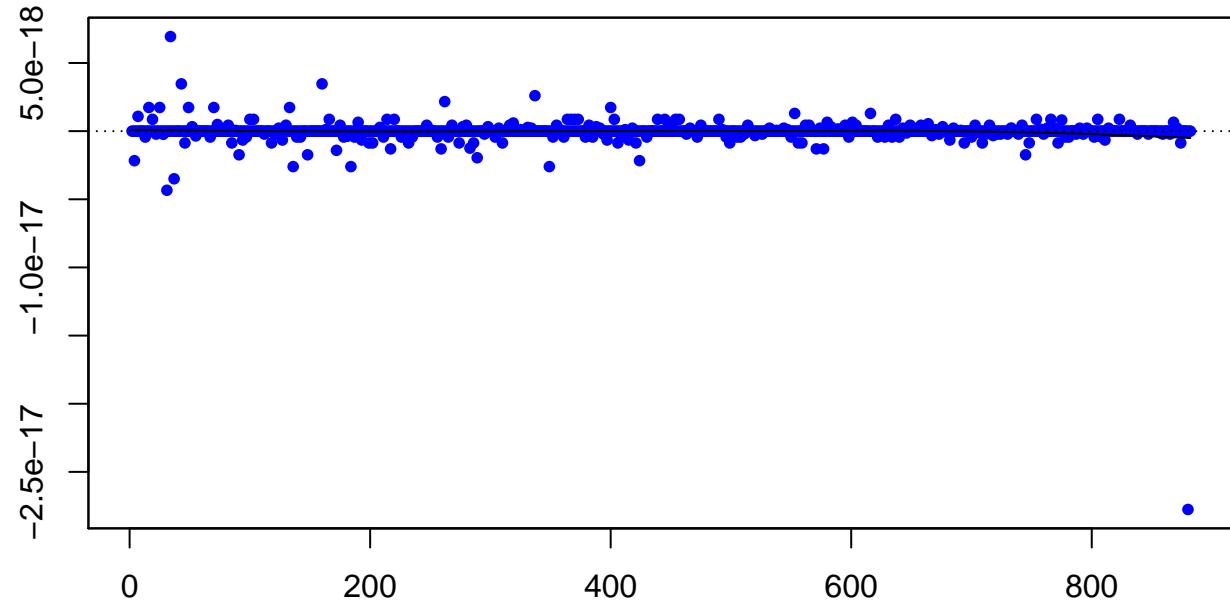


State X10**State X11****State X12**

Observation residuals, $y - E[y]$

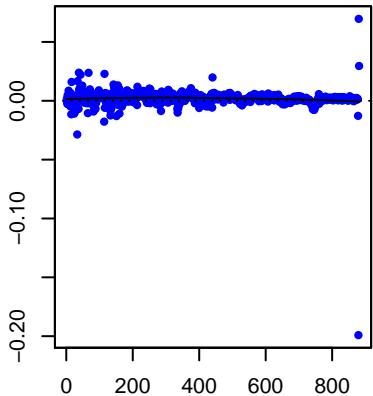


Y2

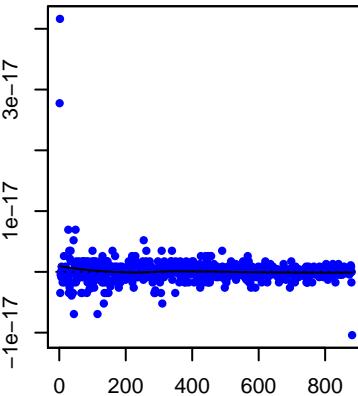


State residuals, $|x_t| - E[x]$

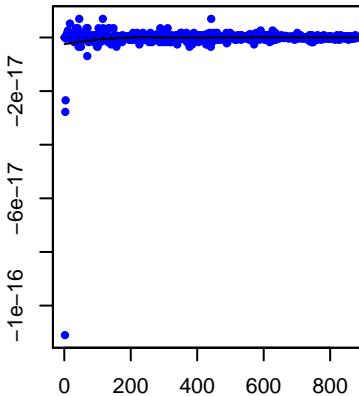
State X1



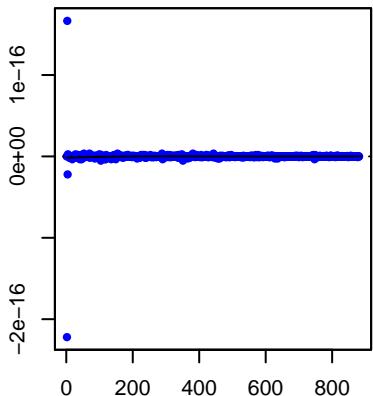
State X2



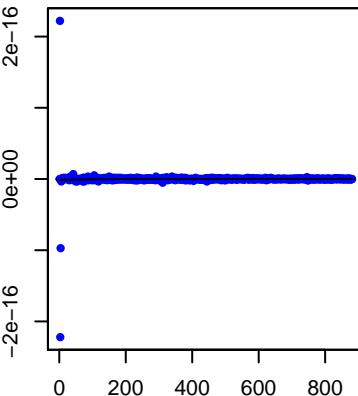
State X3



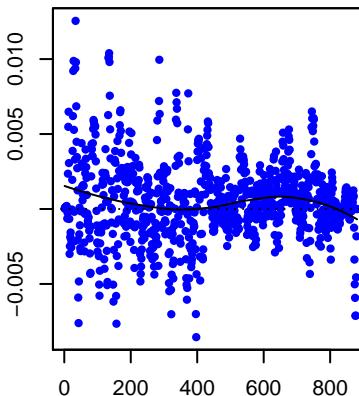
State X4



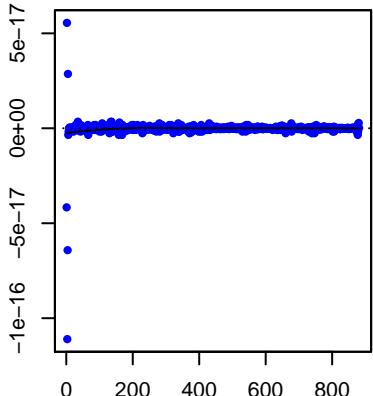
State X5



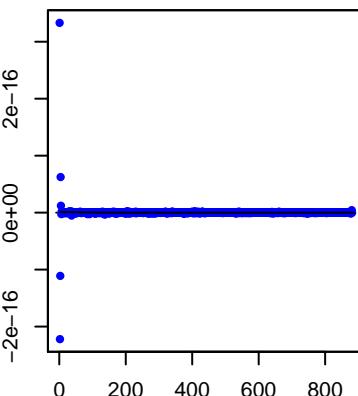
State X6



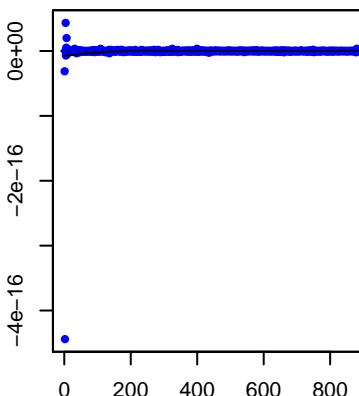
State X7



State X8

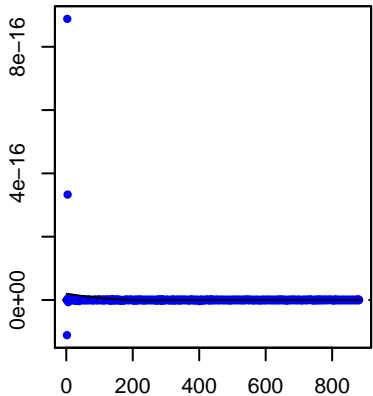


State X9

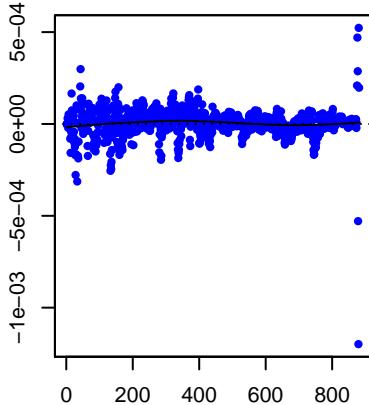


State residuals, $|x_t - E[x]|$

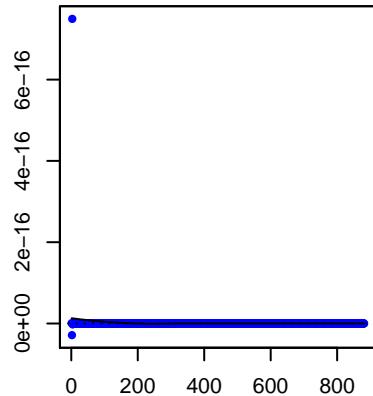
State X10



State X11

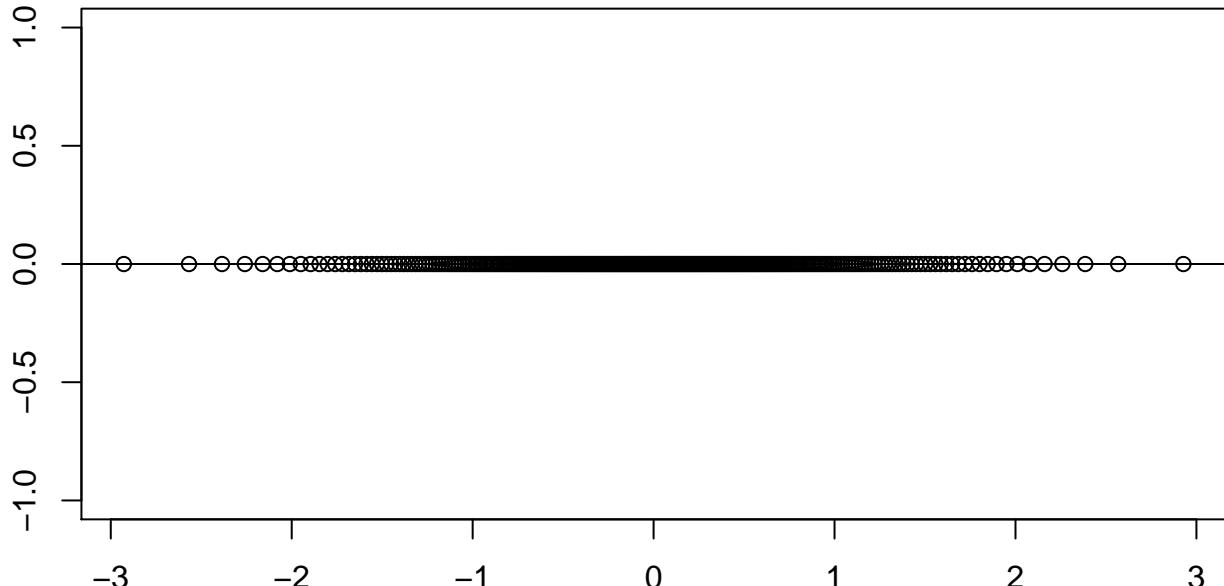


State X12



Sample Quantiles

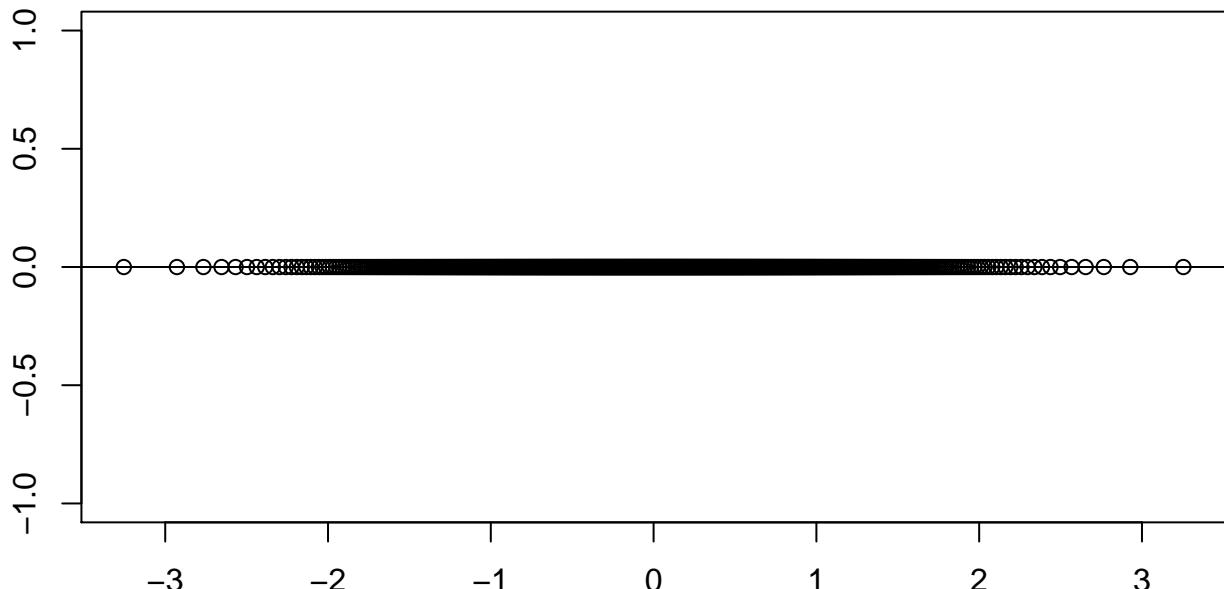
Y_1

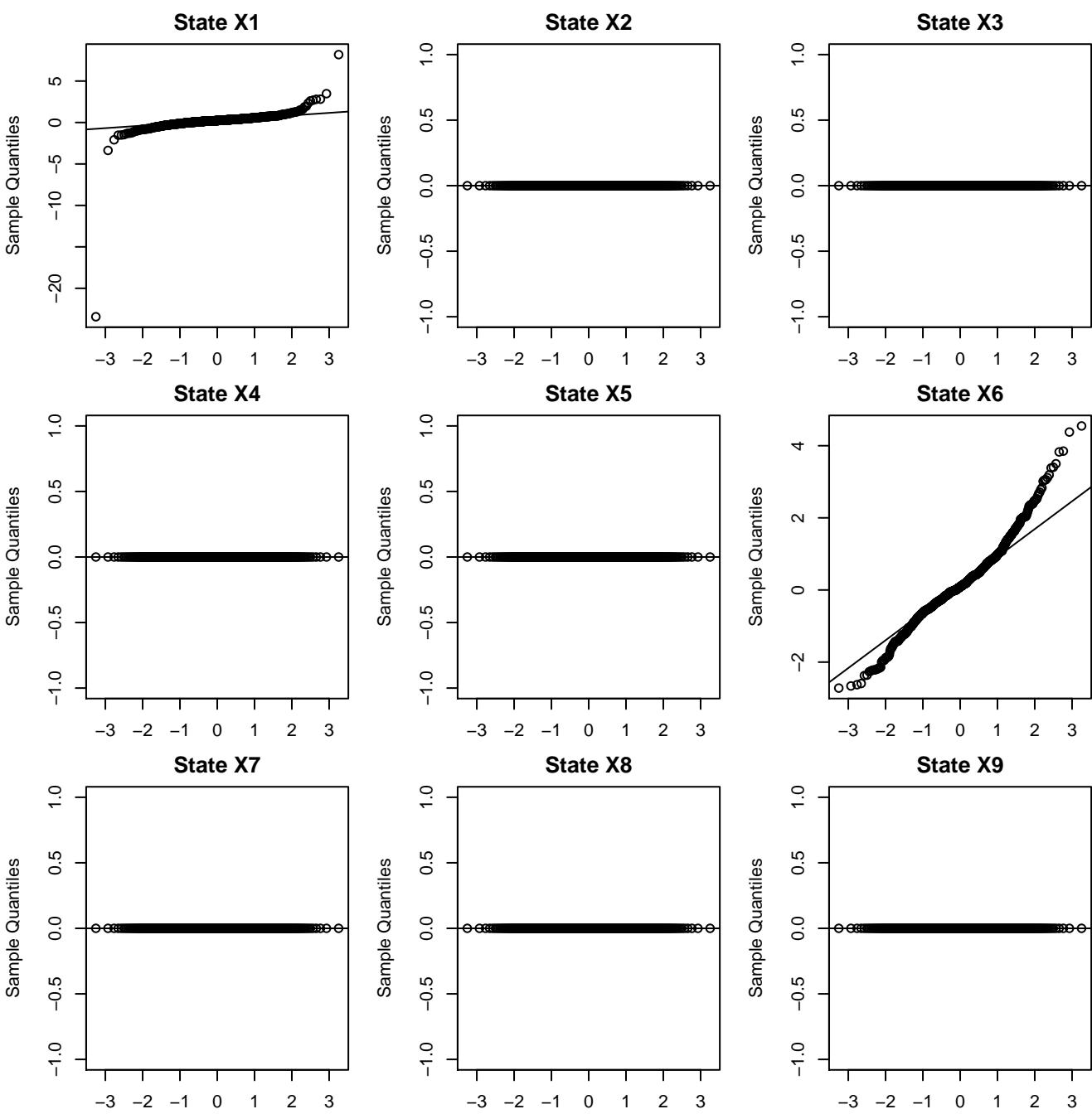


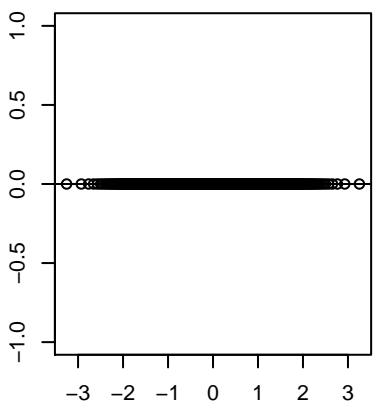
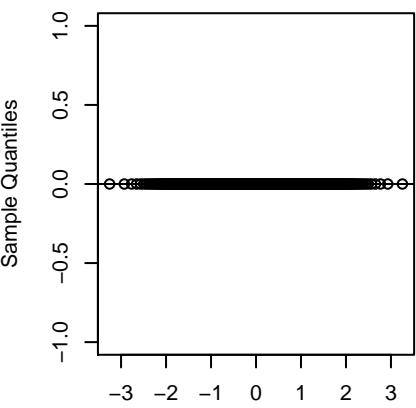
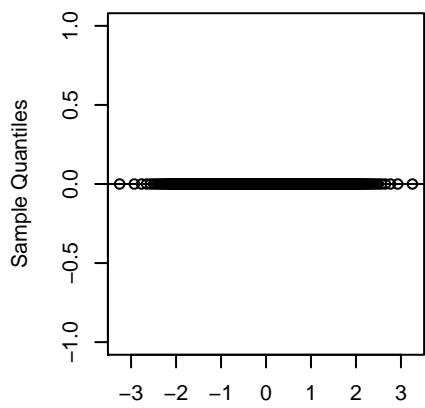
Y_2

Sample Quantiles

Y_2

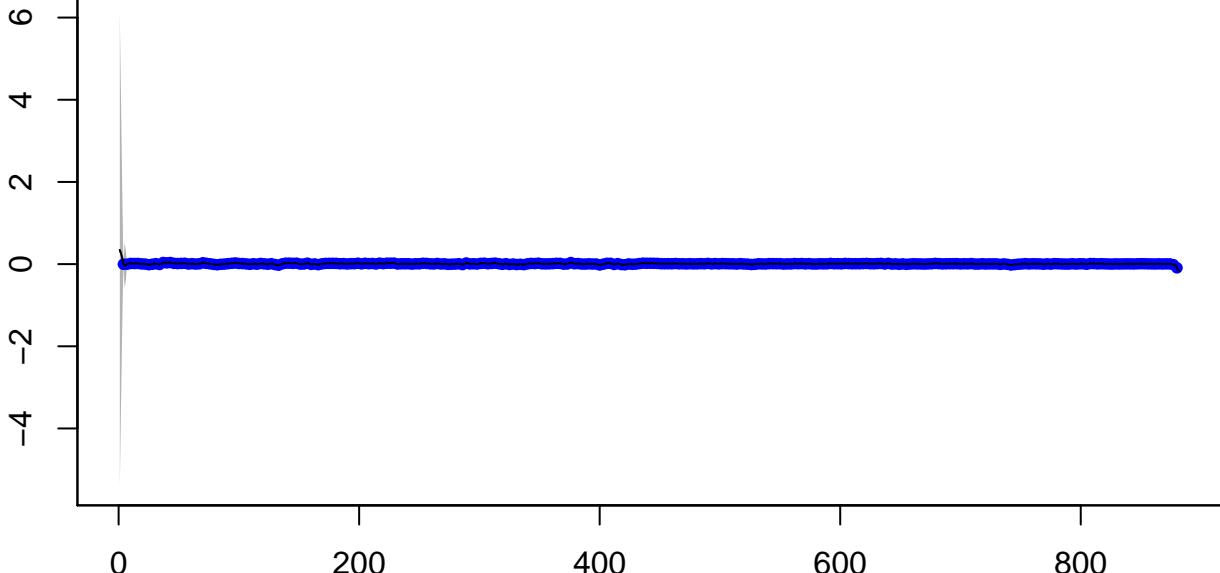




State X10**State X11****State X12**

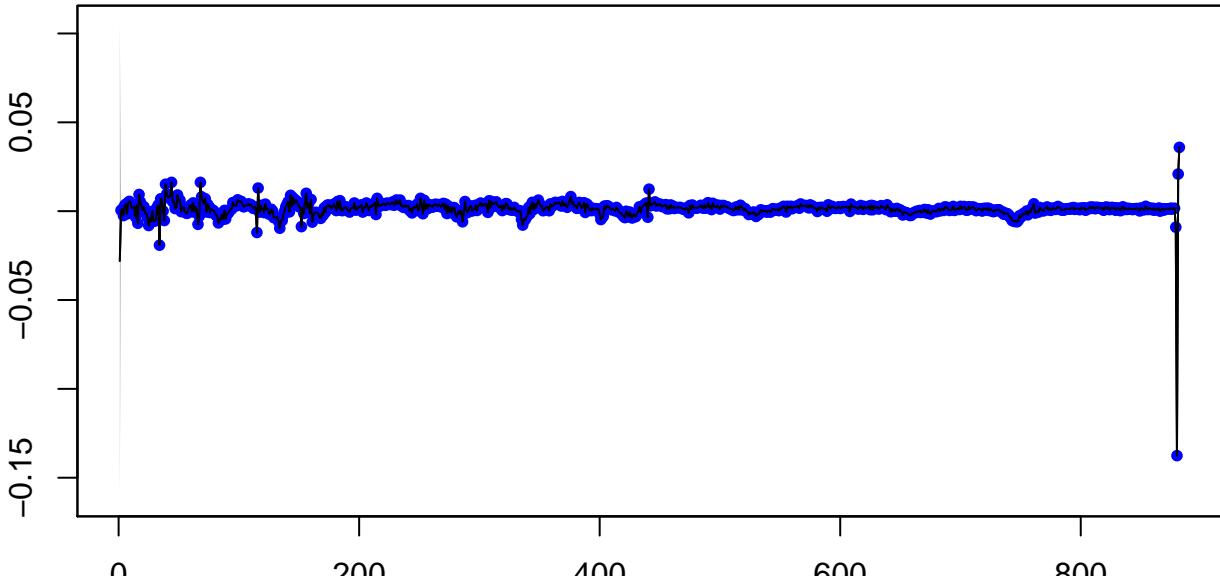
Y1 + CI

Estimate



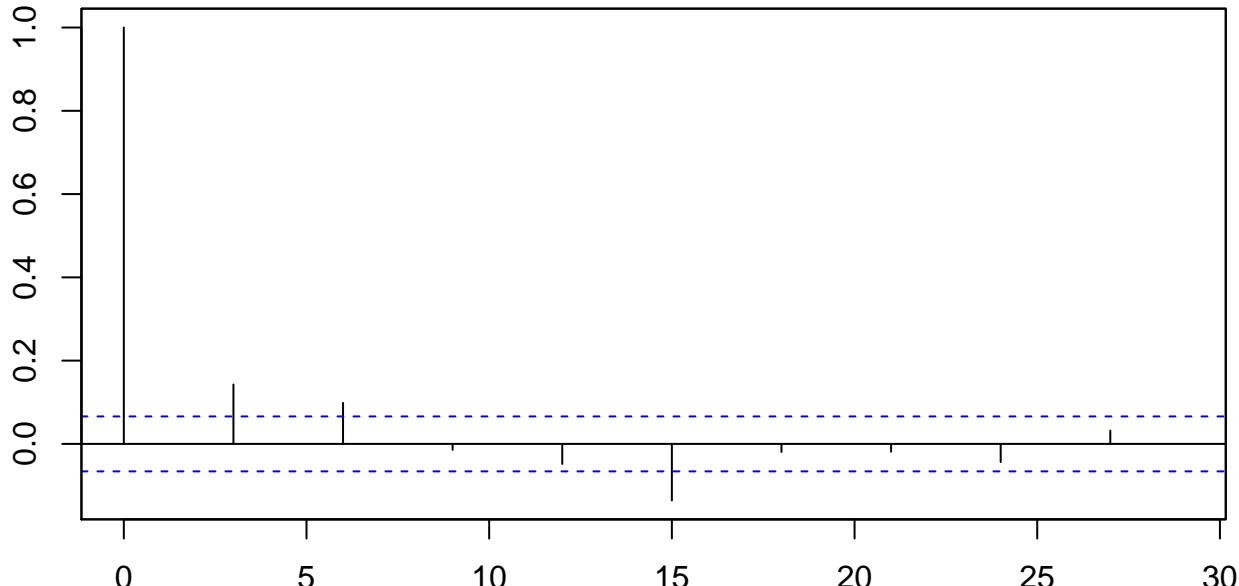
Y2 + CI

Estimate



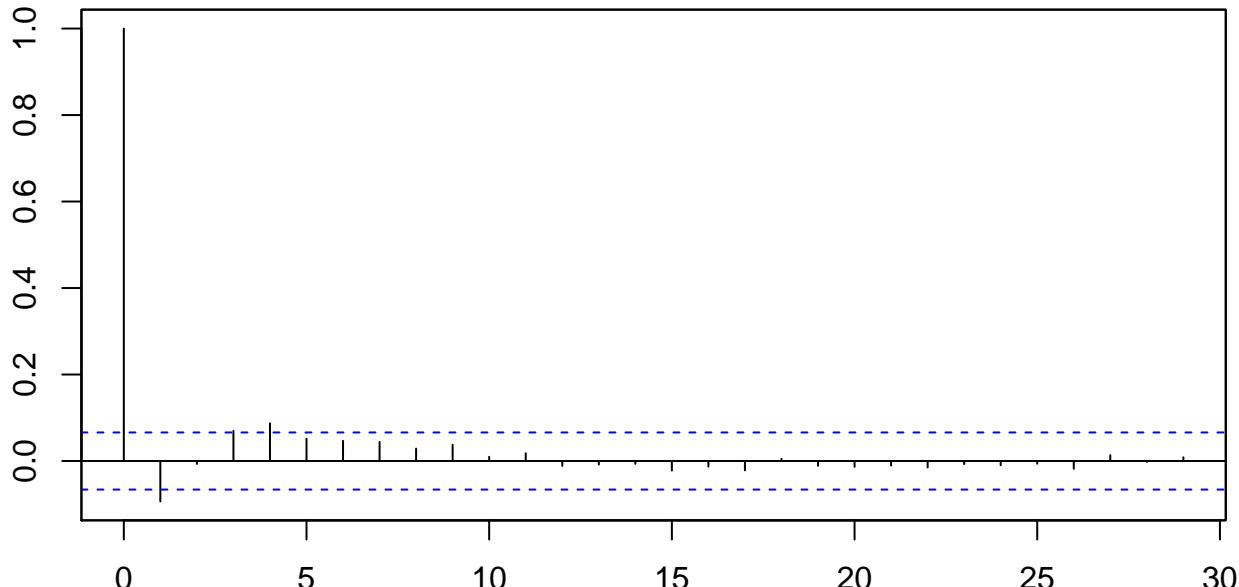
Y1

ACF

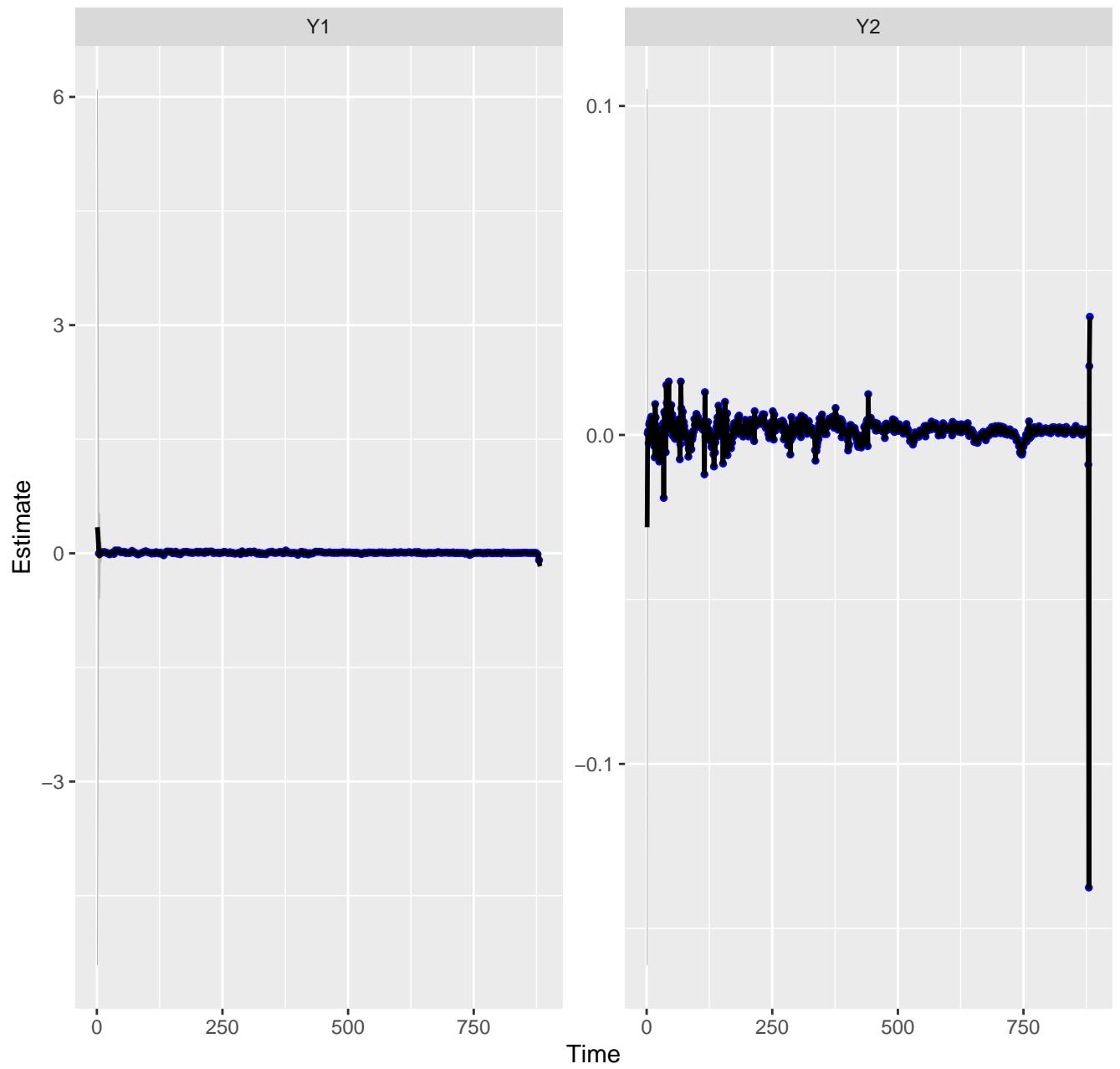


Y2

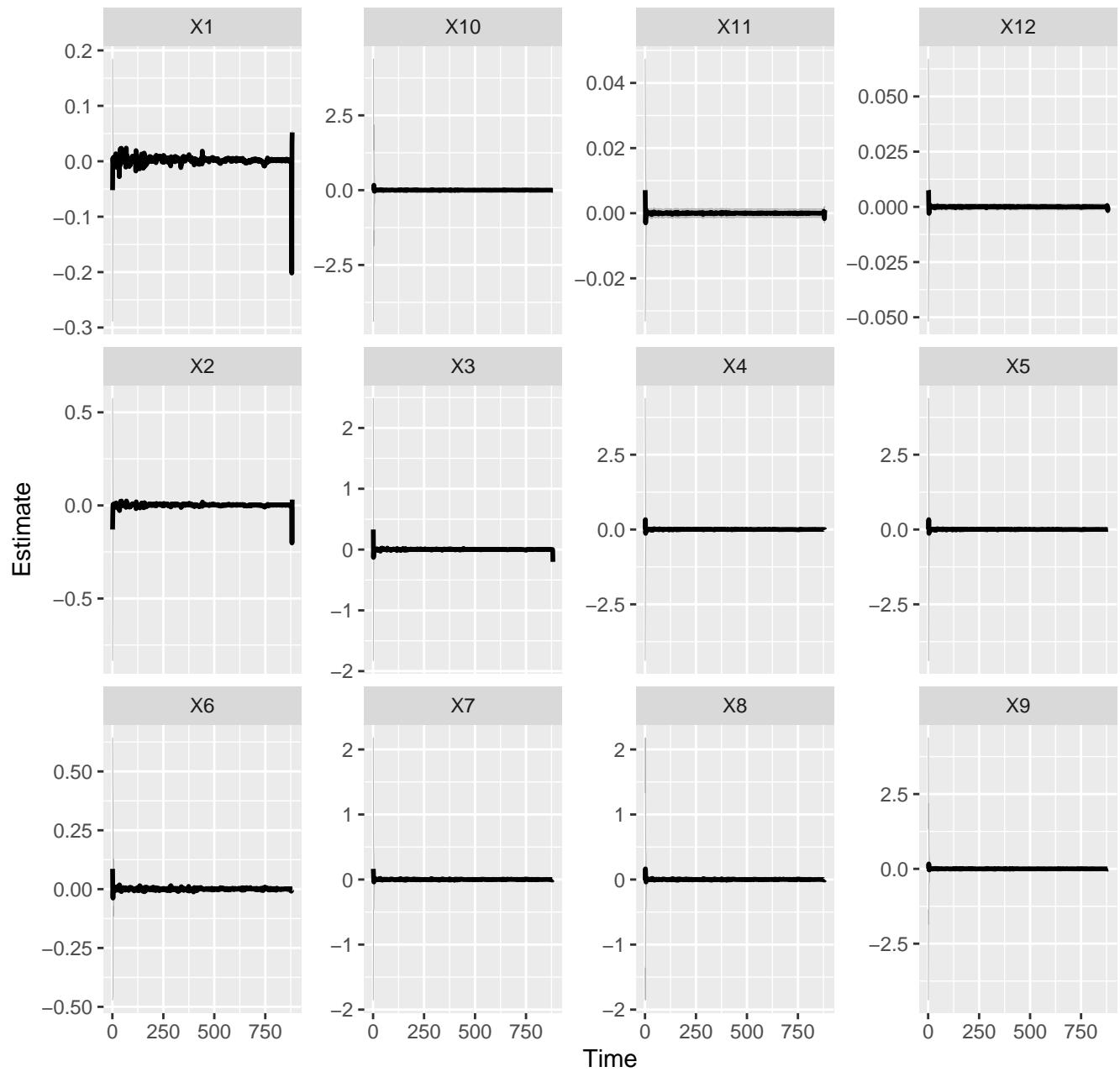
ACF



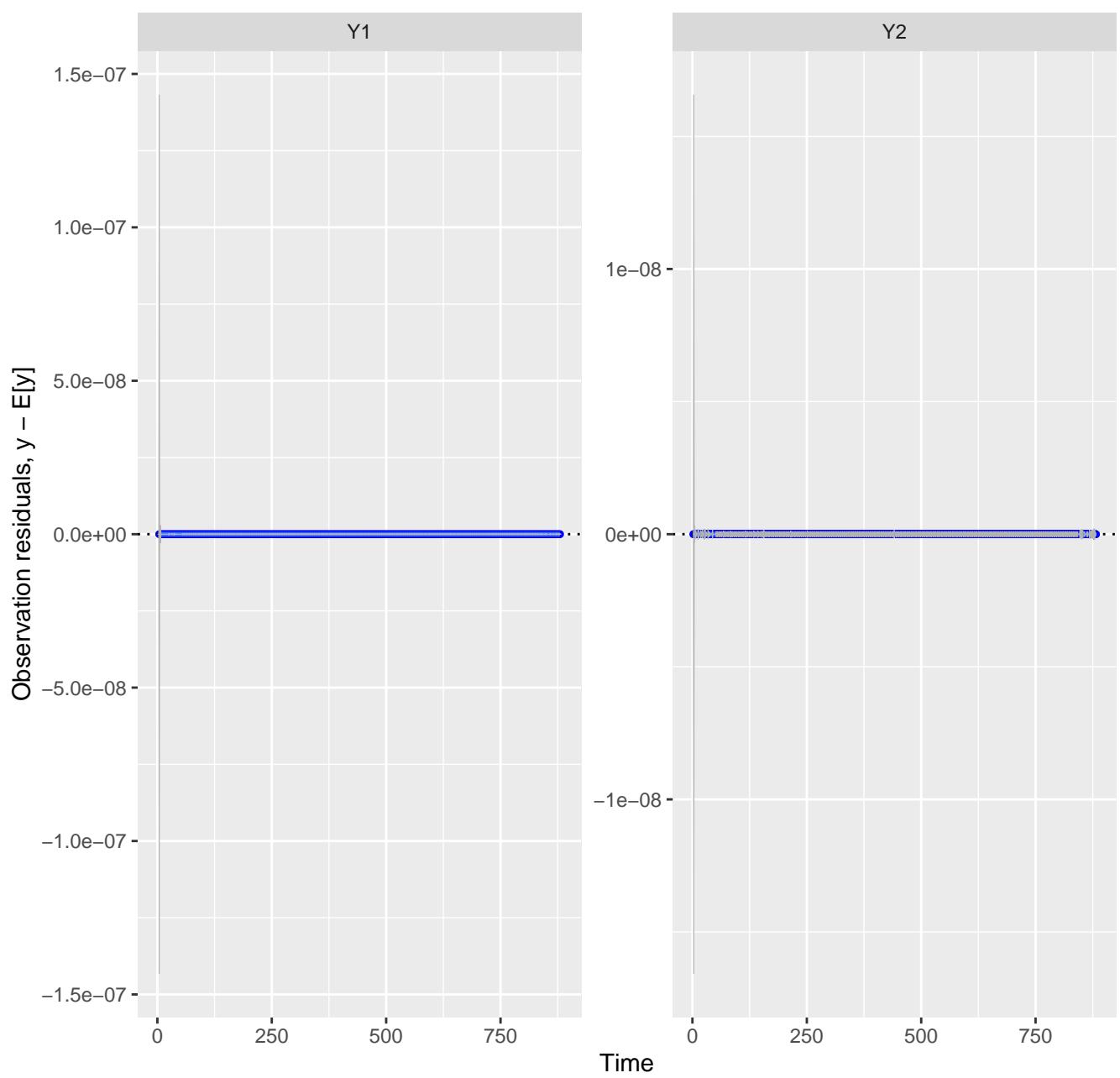
Model fitted Y + CI



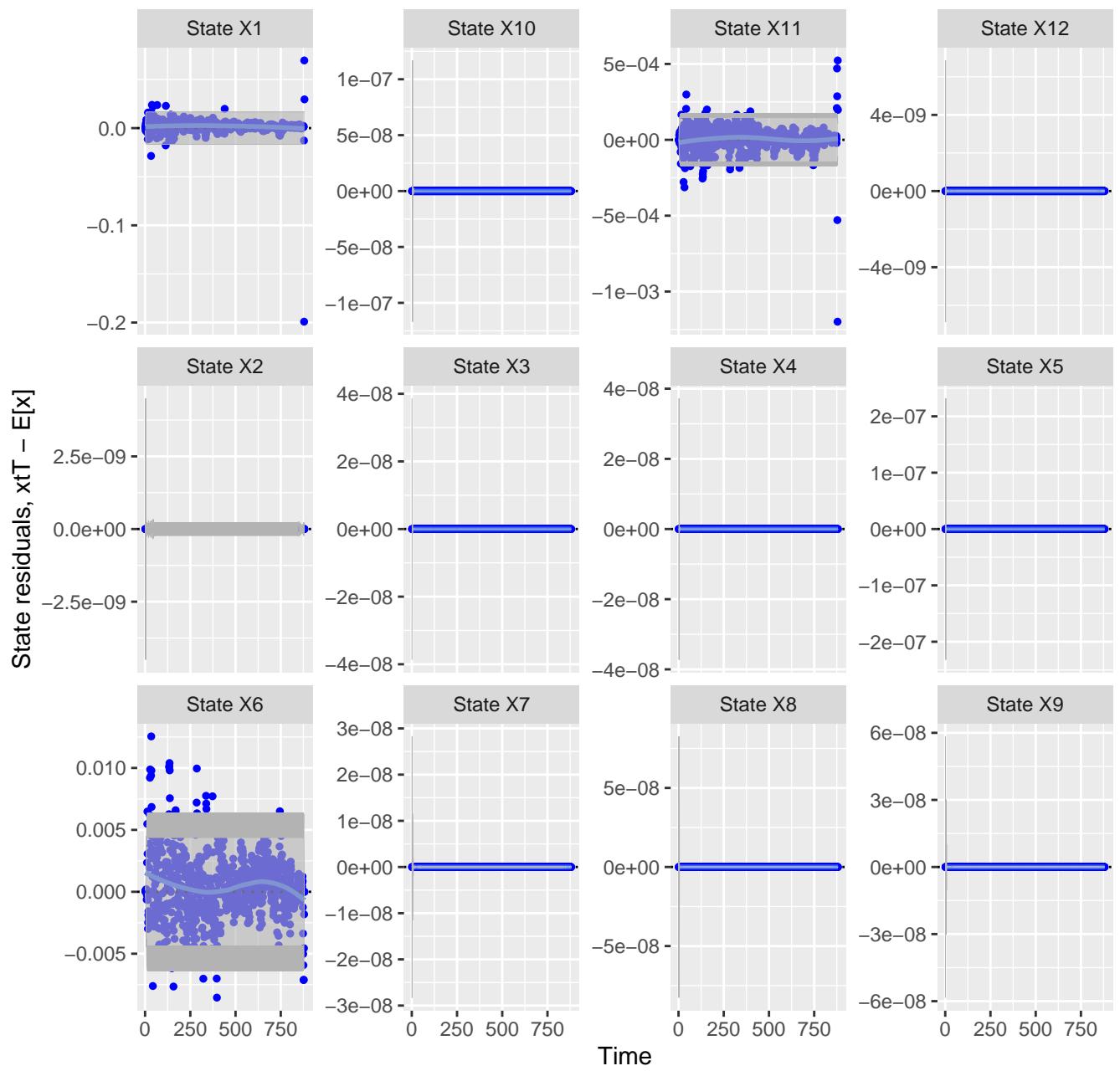
States



Model residuals

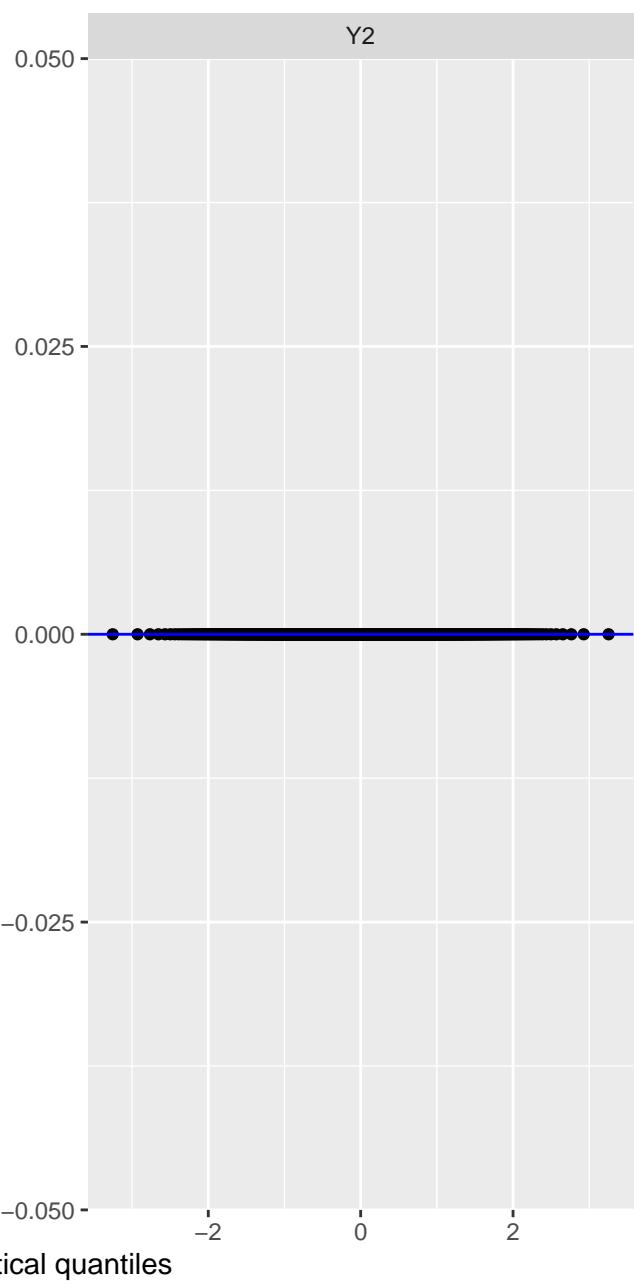
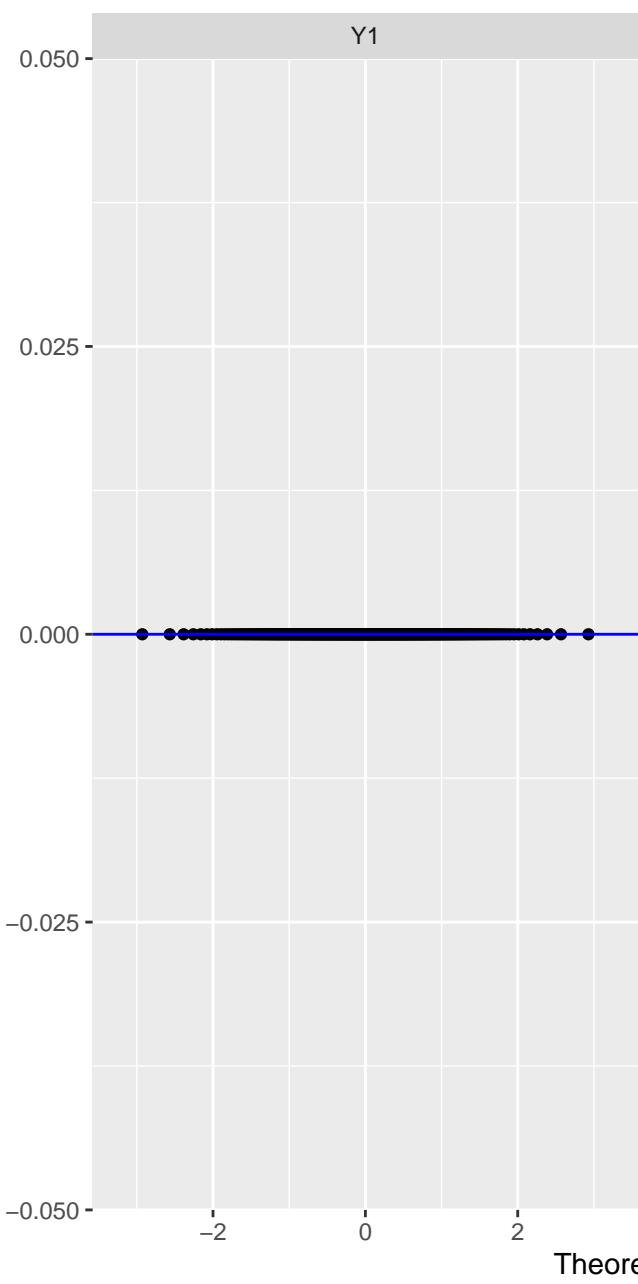


State residuals



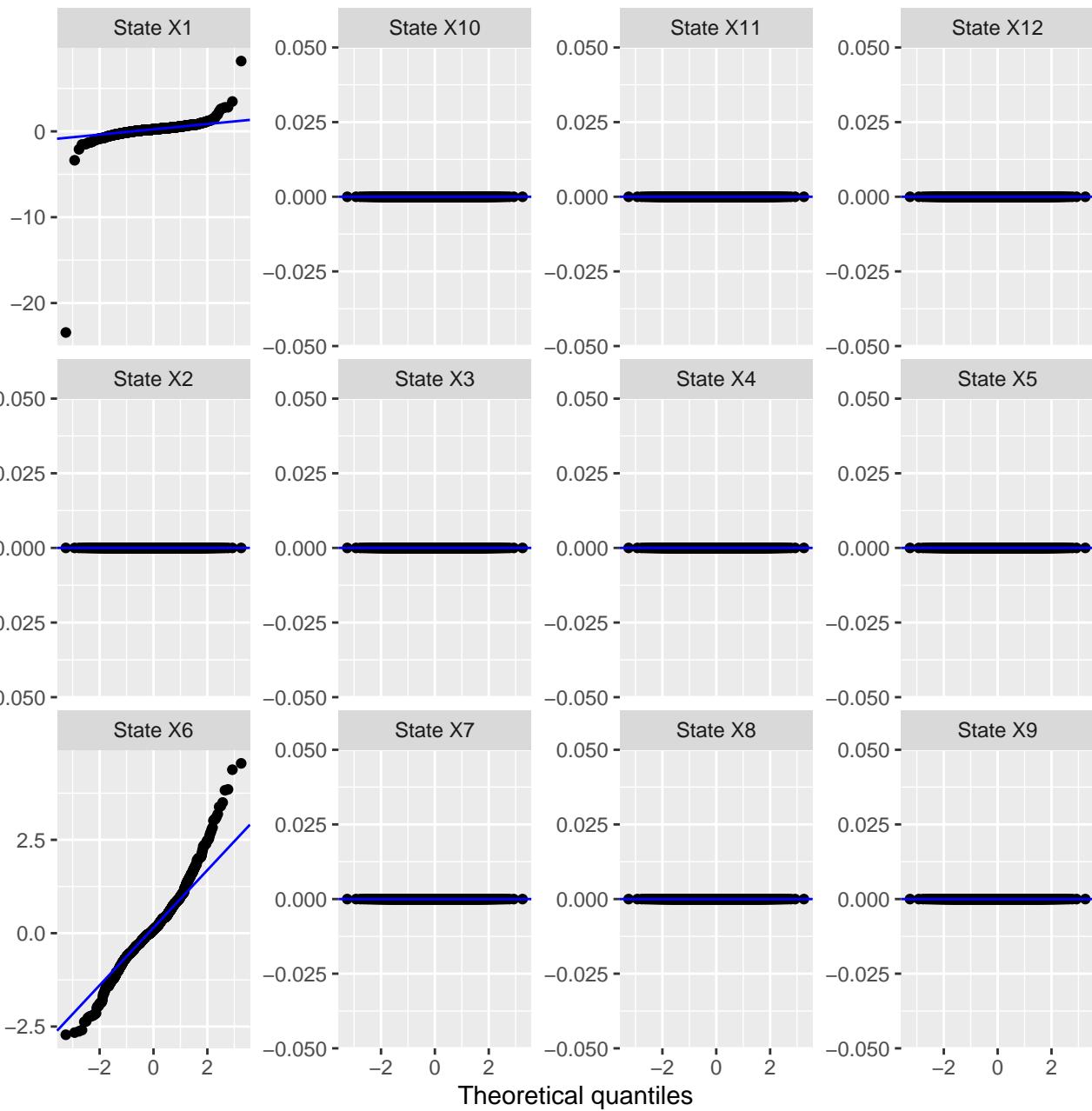
Model residuals normality test

Cholesky standardized model smoothed residuals

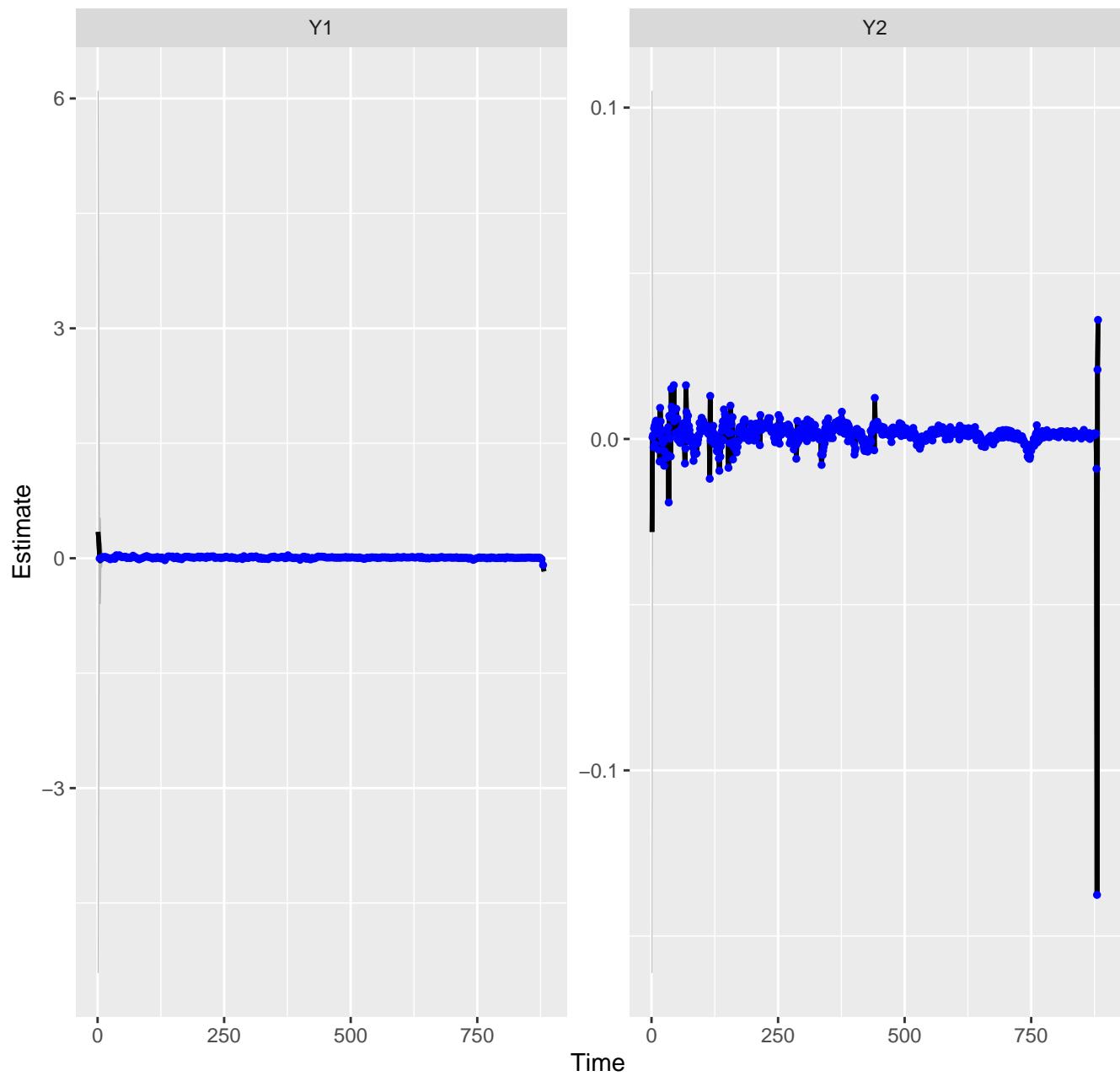


State residuals normality test

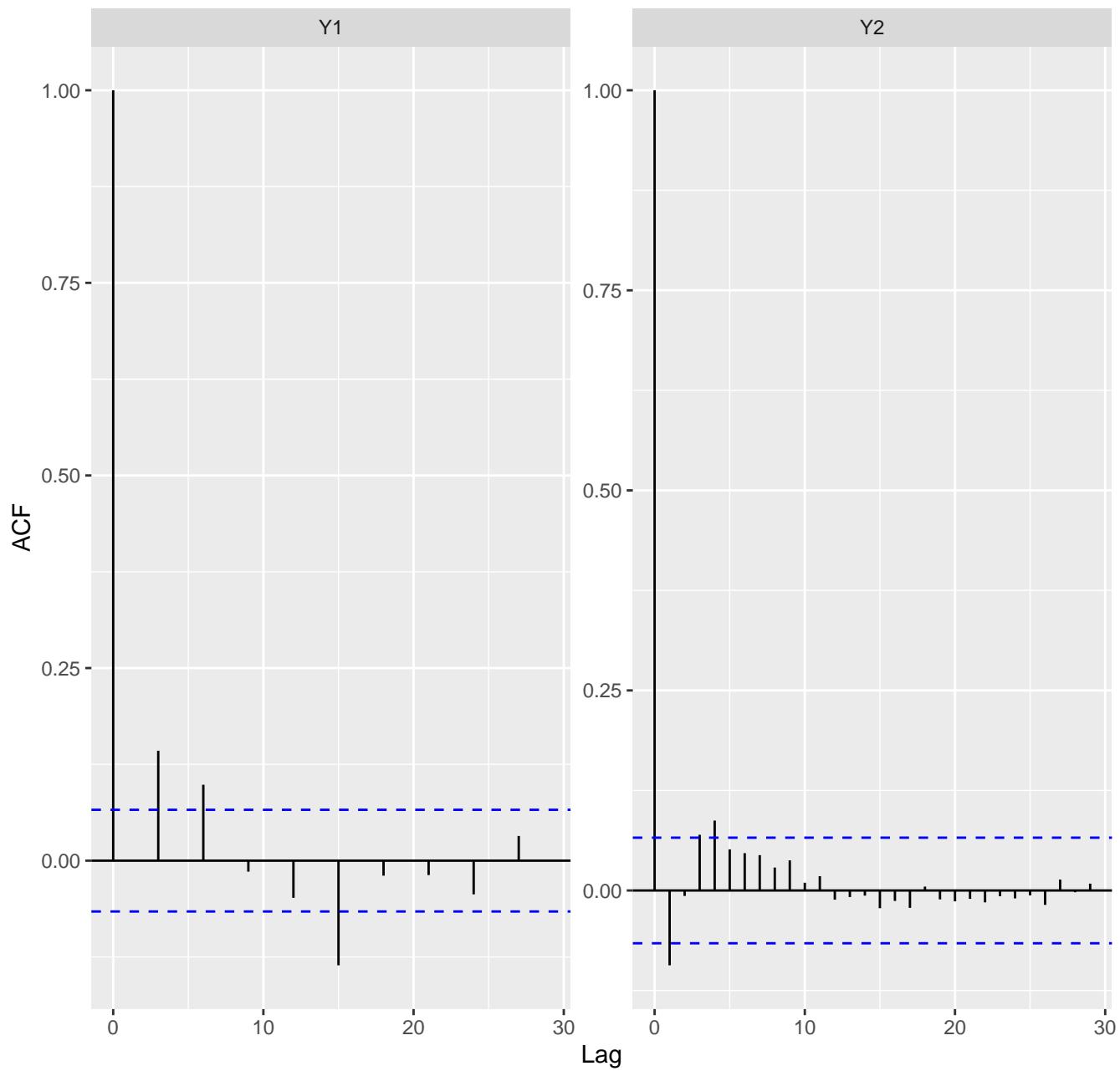
Cholesky standardized state smoothed residuals



Expected value of Y conditioned on data

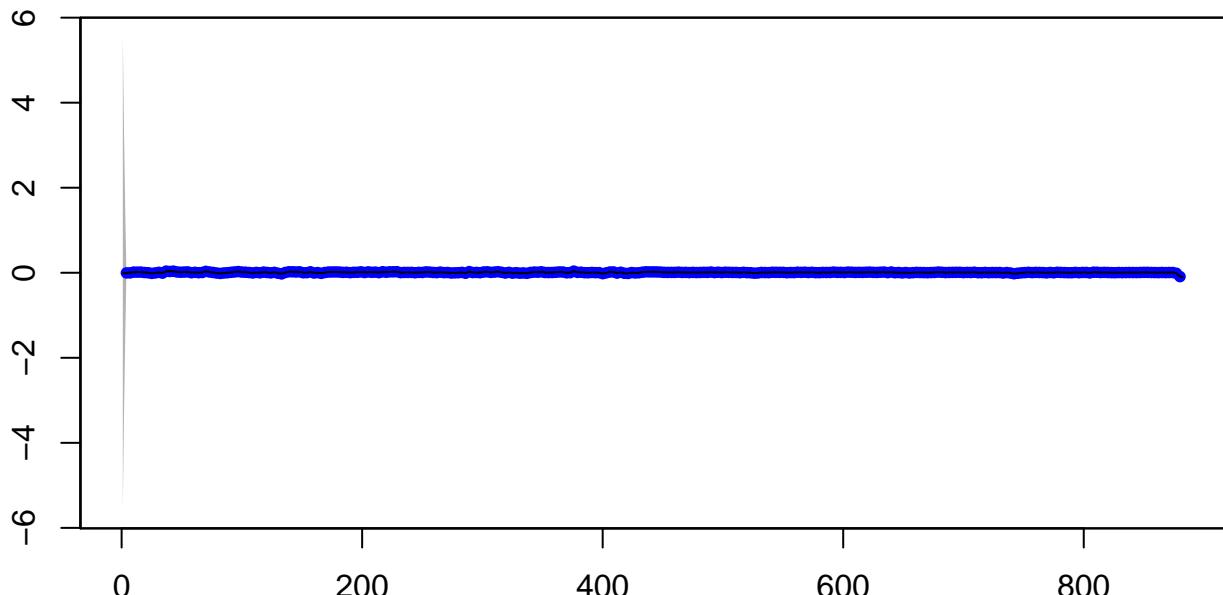


Model innovations residuals ACF



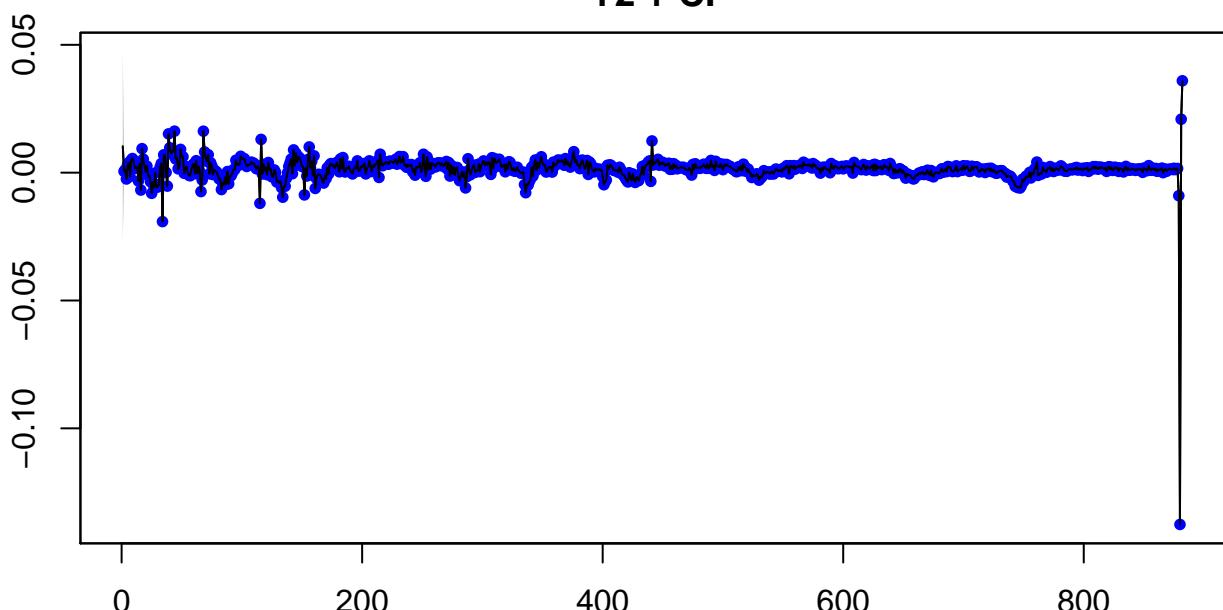
Y1 + CI

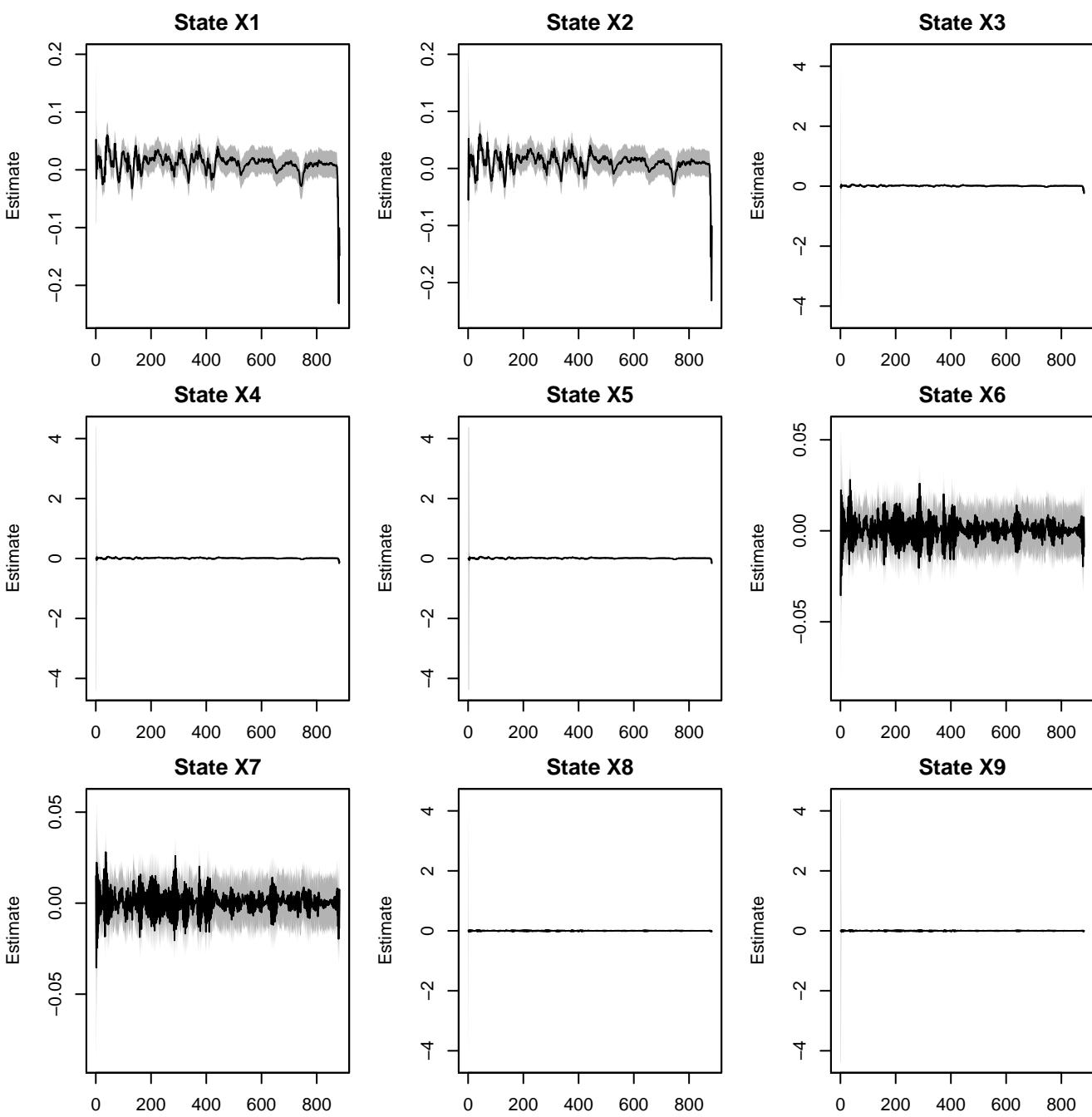
Estimate

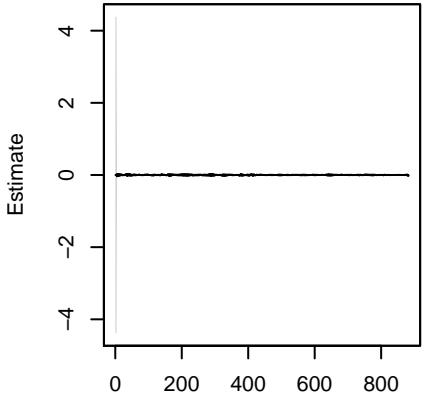
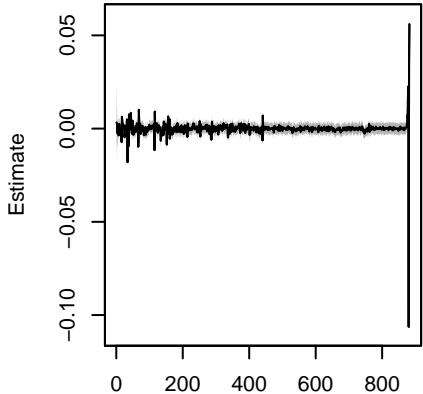
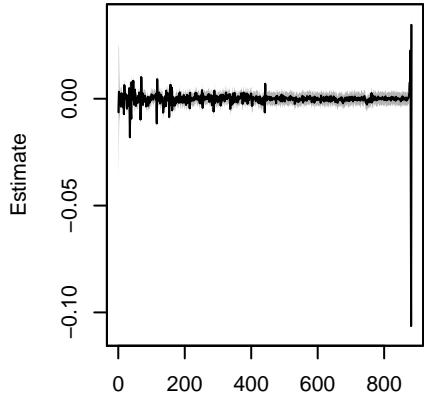


Y2 + CI

Estimate

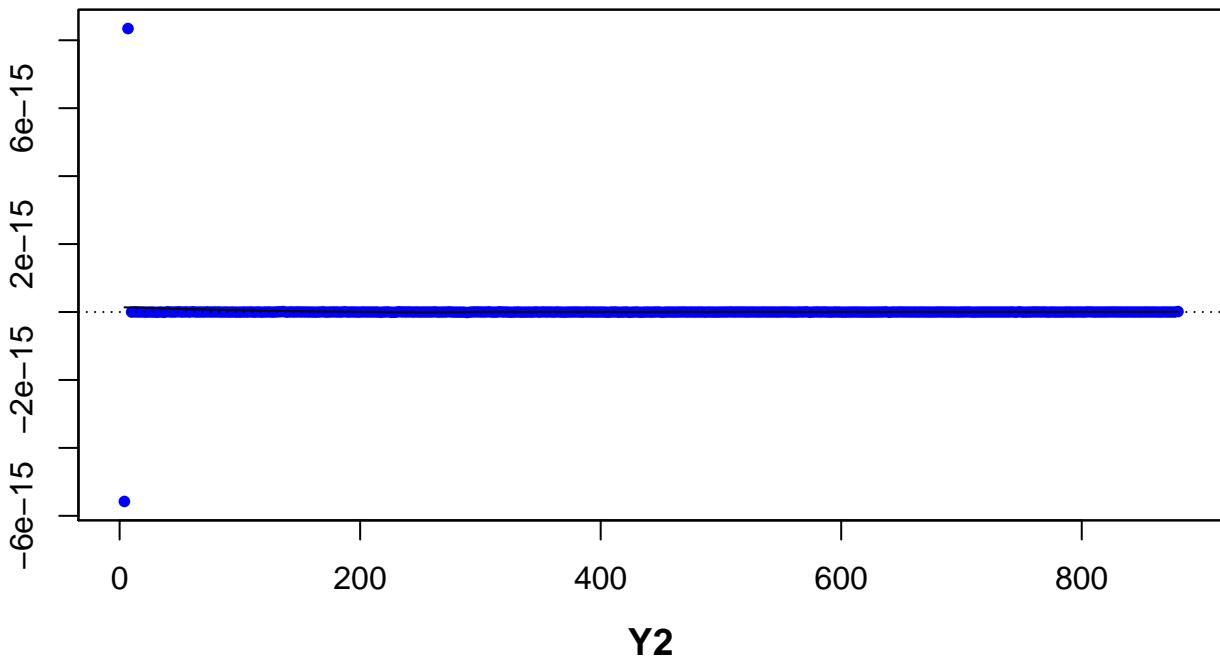




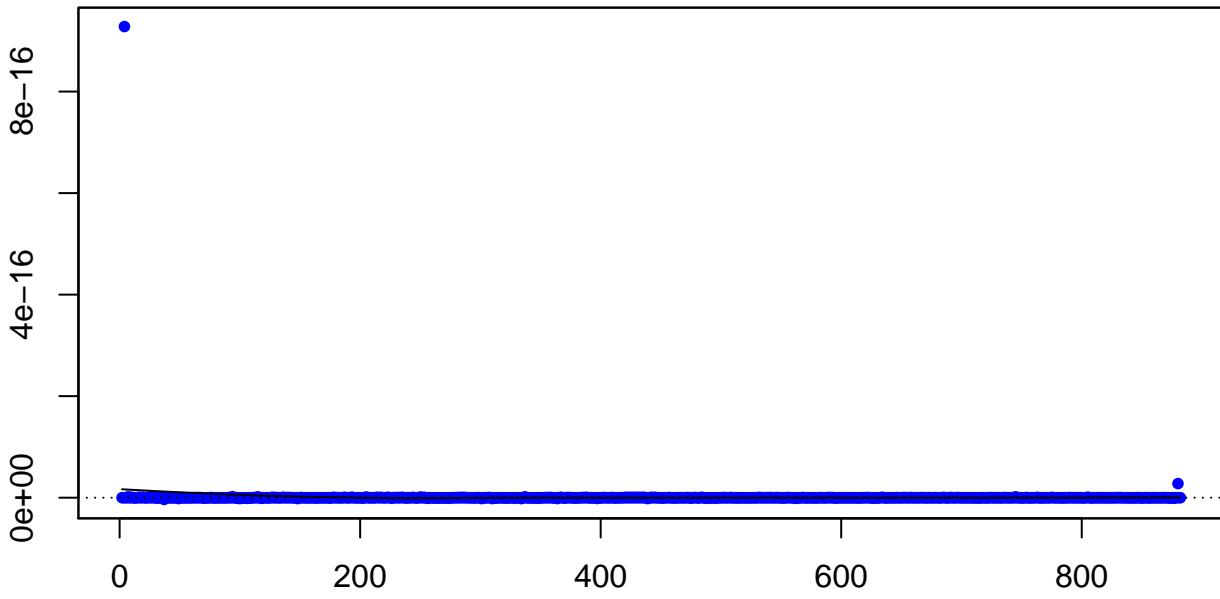
State X10**State X11****State X12**

Observation residuals, $y - E[y]$

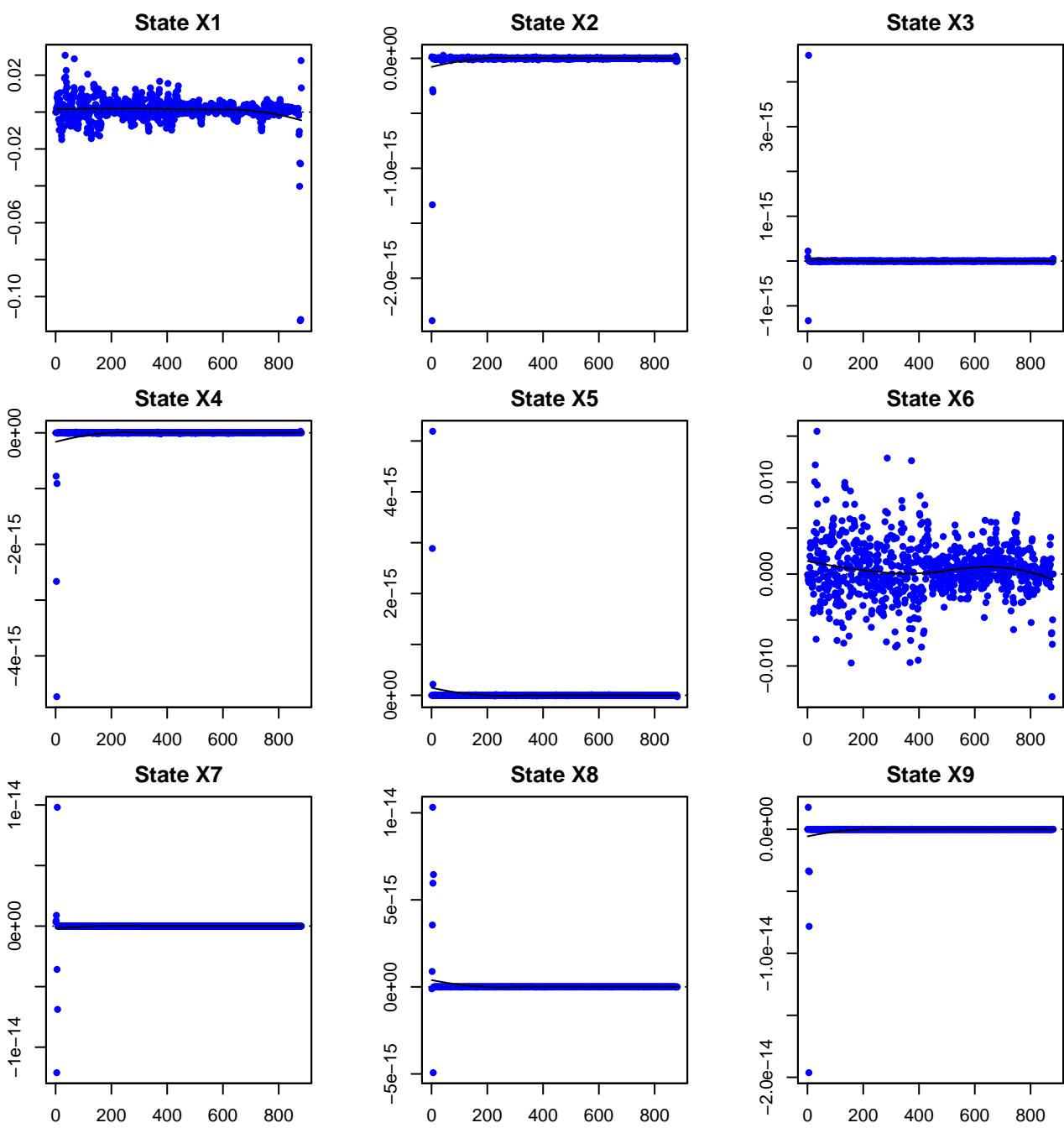
Y1



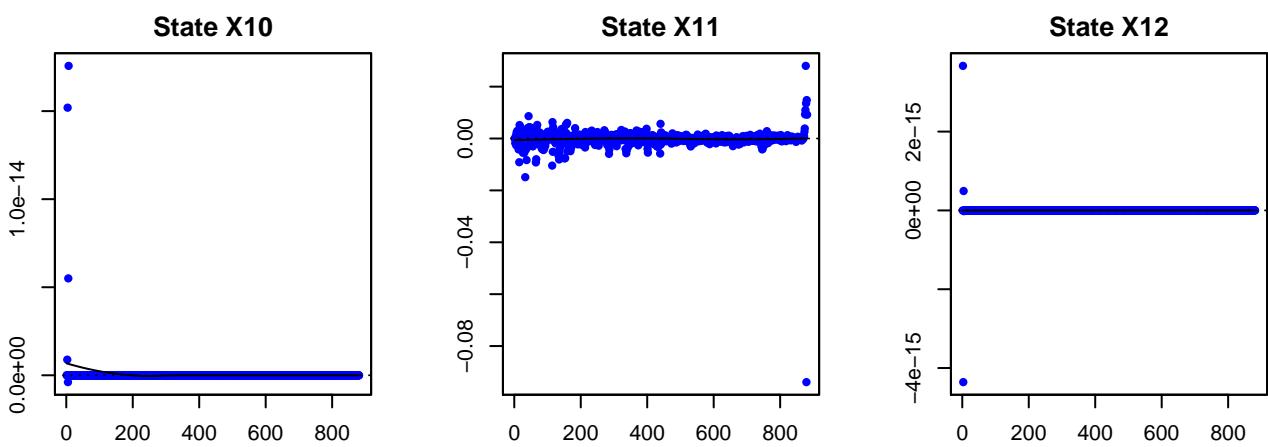
Y2



State residuals, $|x_t - E[x]|$

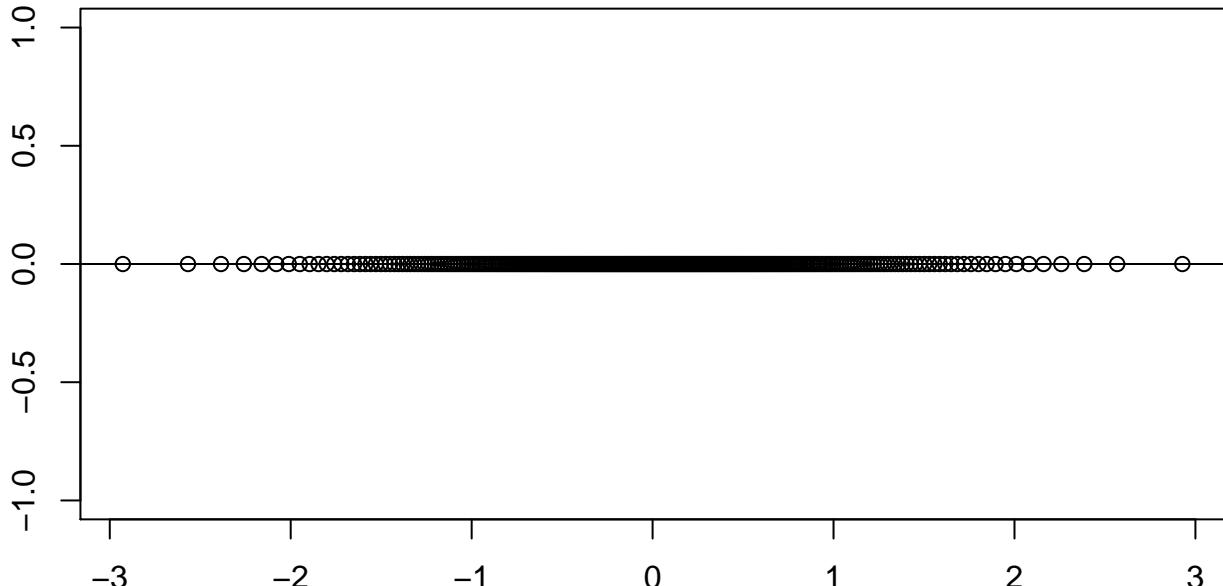


State residuals, $|x_t - E[x]|$



Sample Quantiles

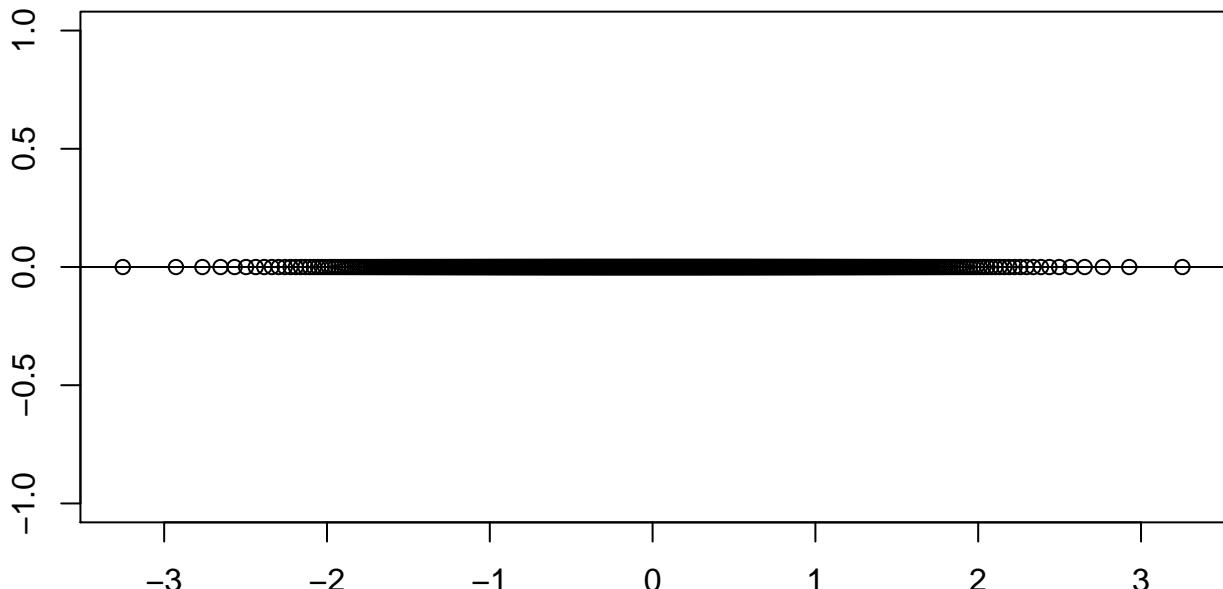
Y_1

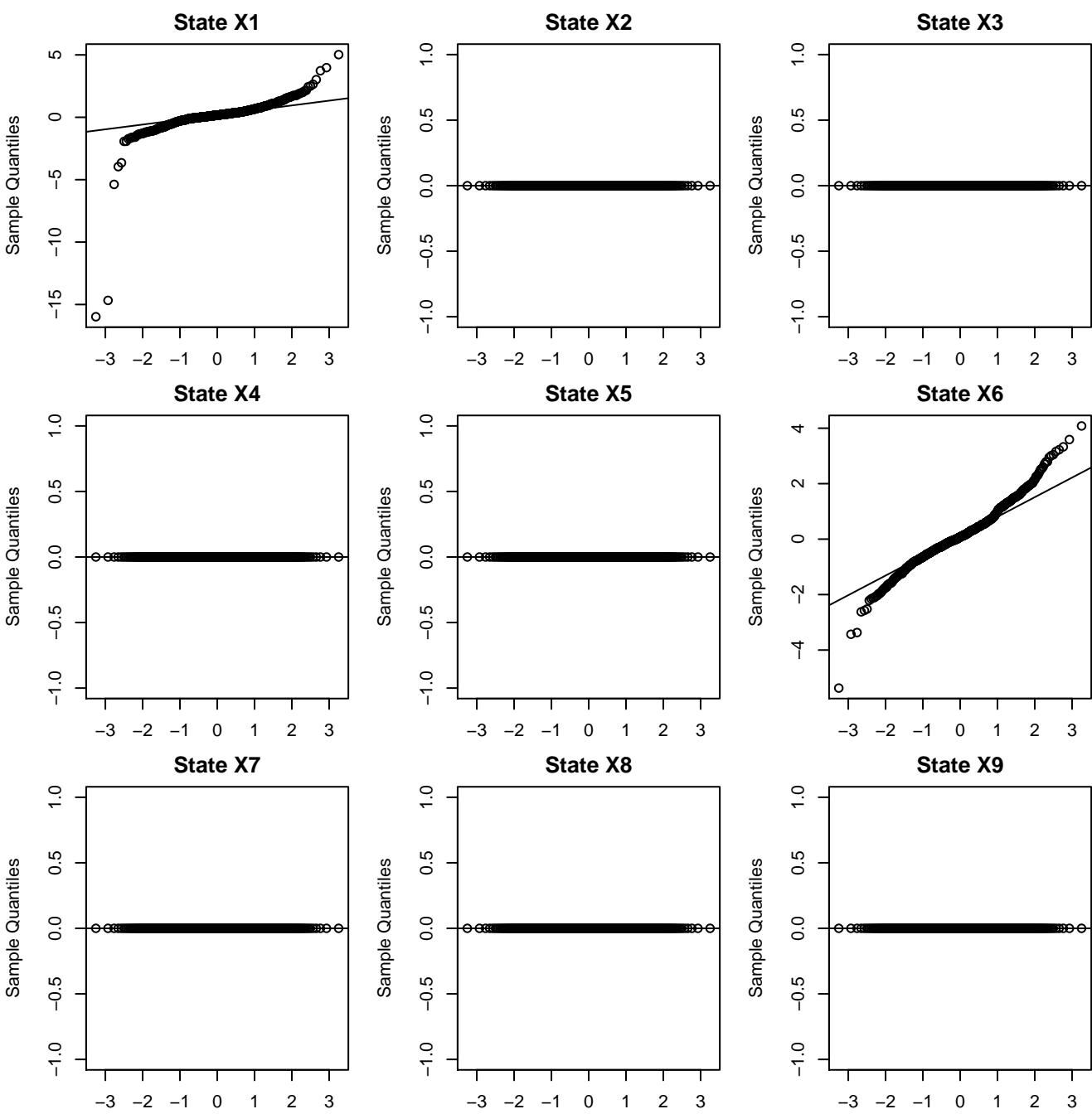


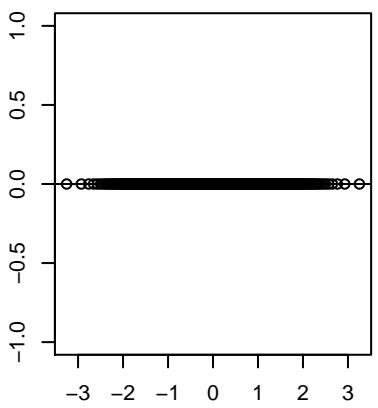
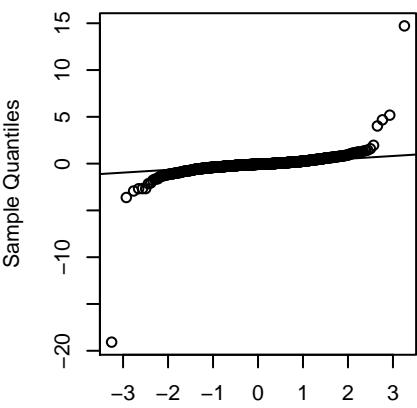
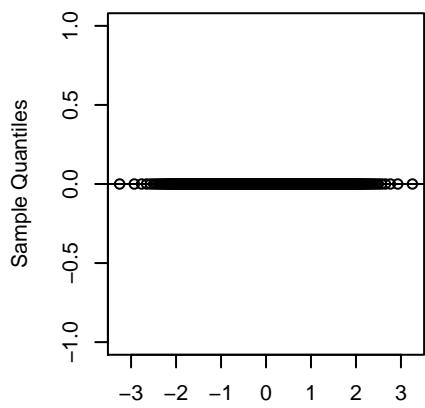
Y_2

Sample Quantiles

Y_2

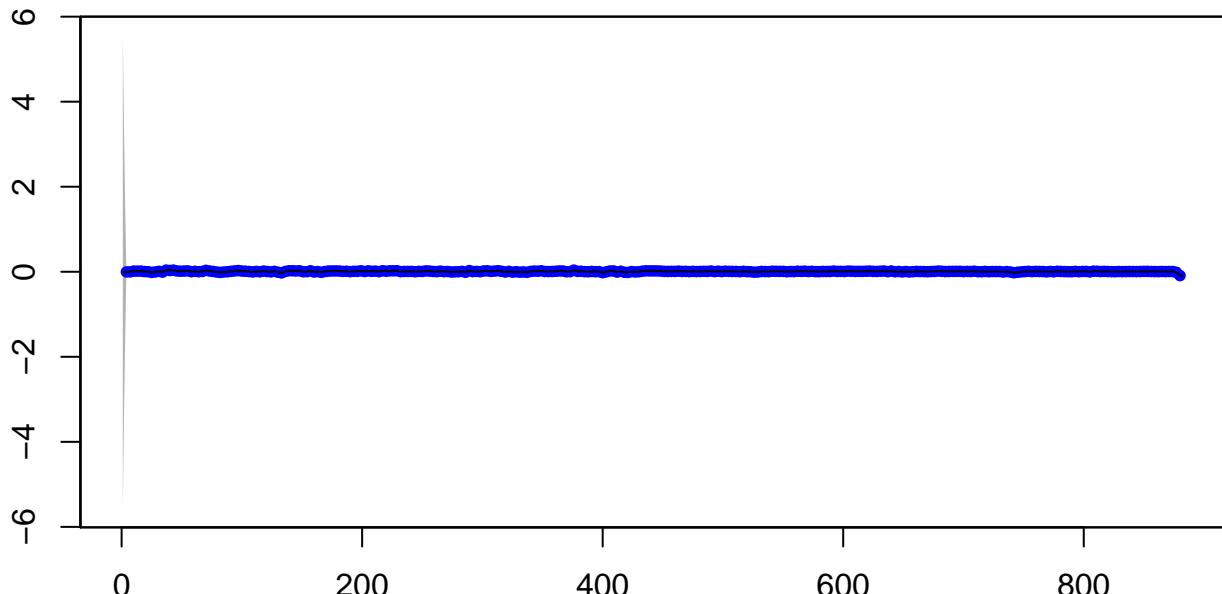




State X10**State X11****State X12**

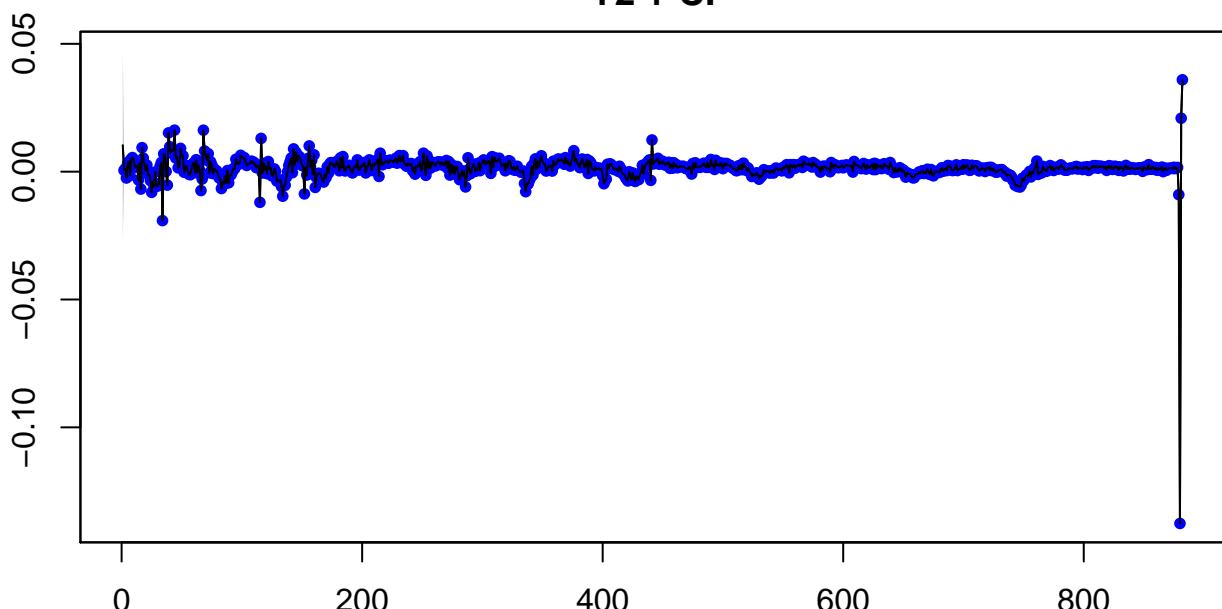
Y1 + CI

Estimate



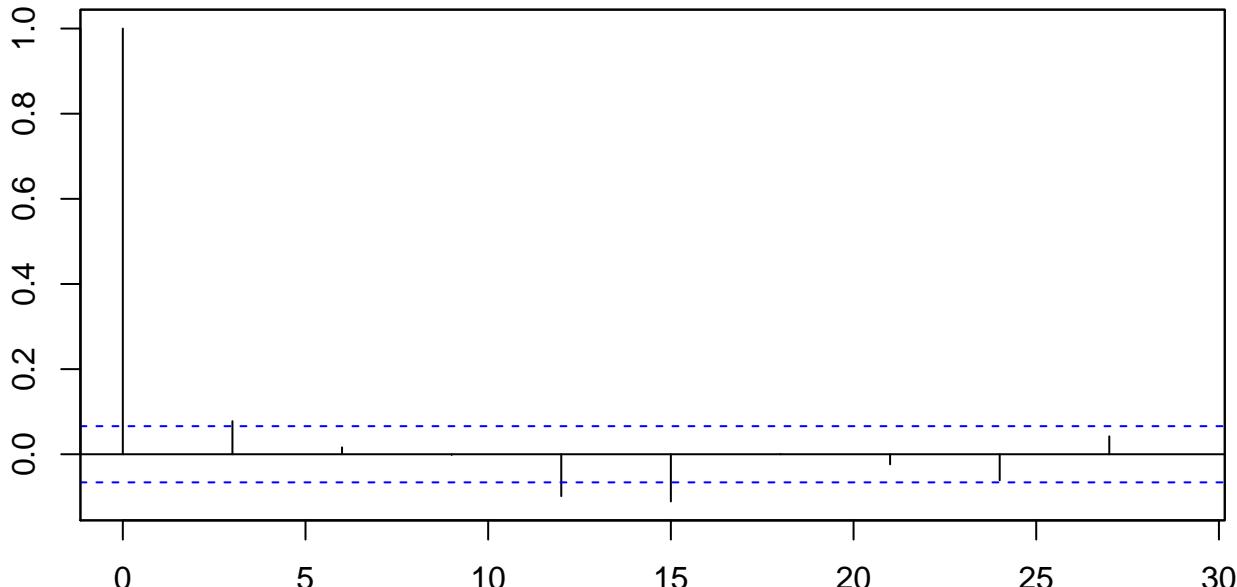
Y2 + CI

Estimate



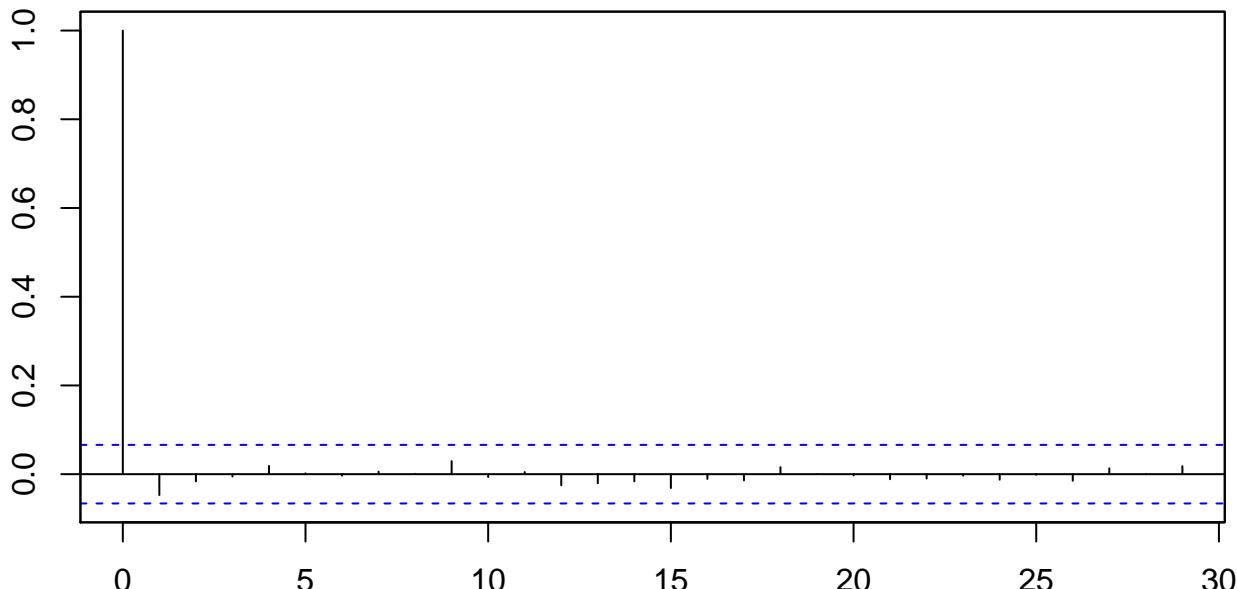
Y1

ACF

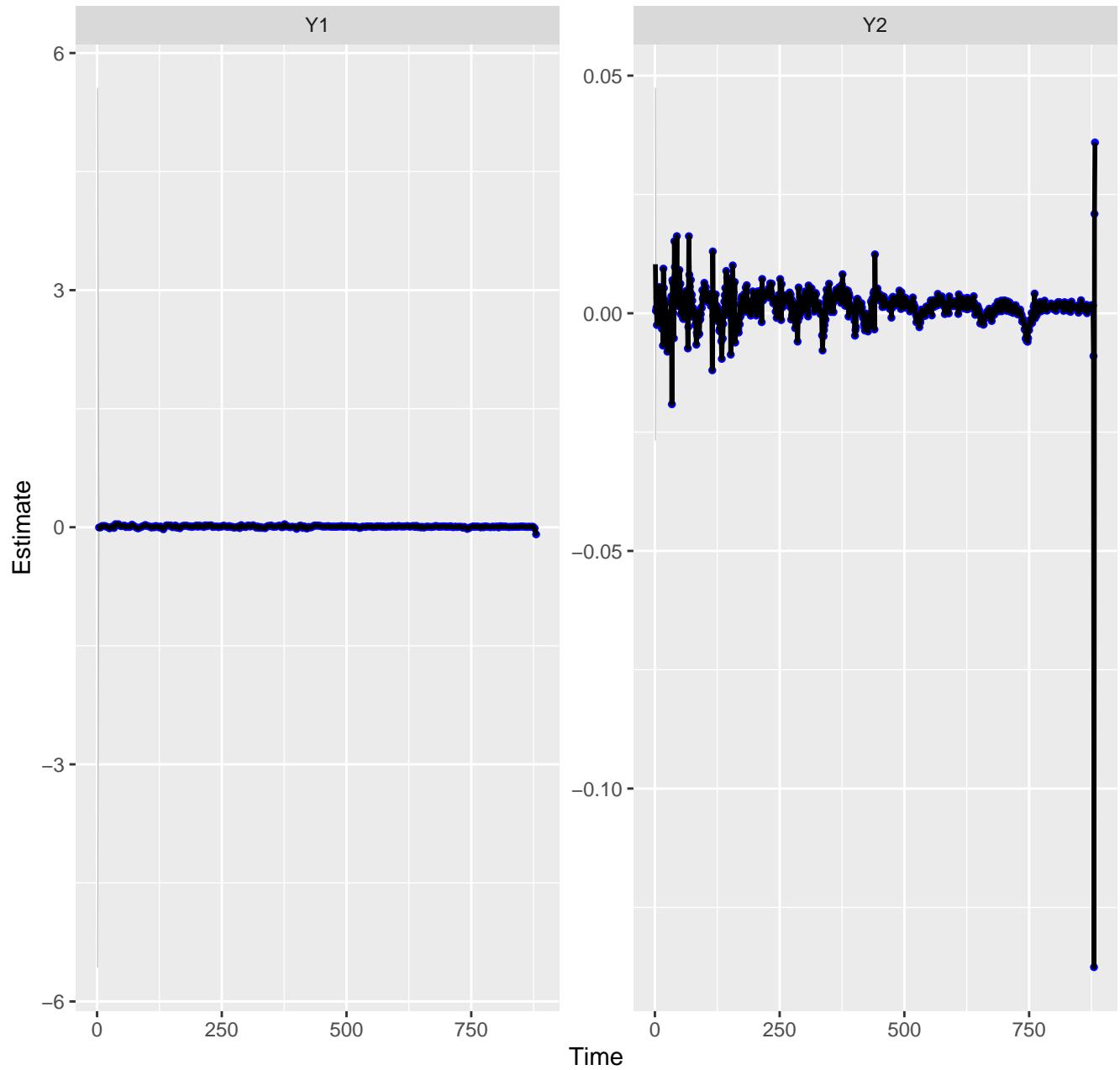


Y2

ACF

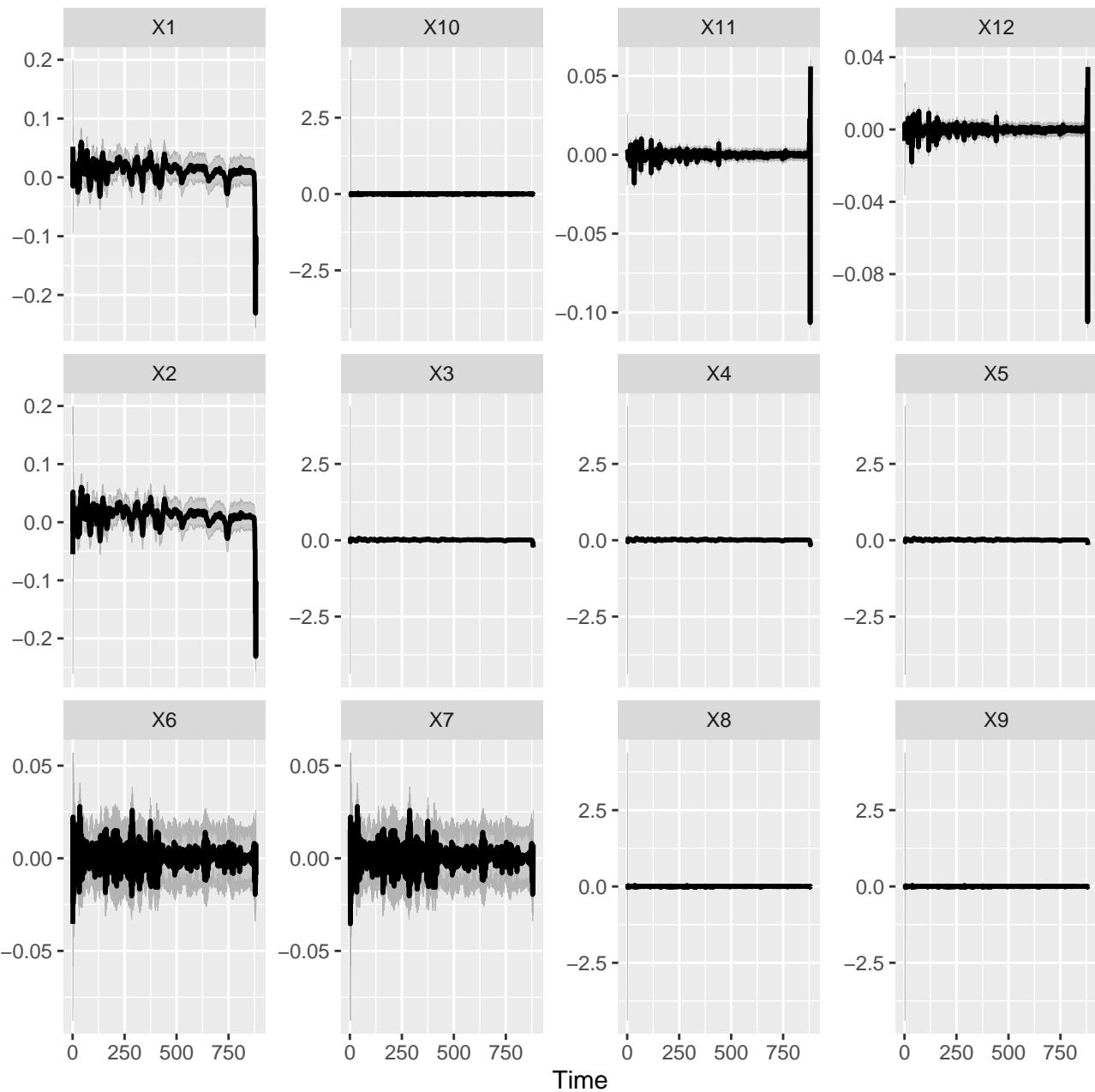


Model fitted Y + CI

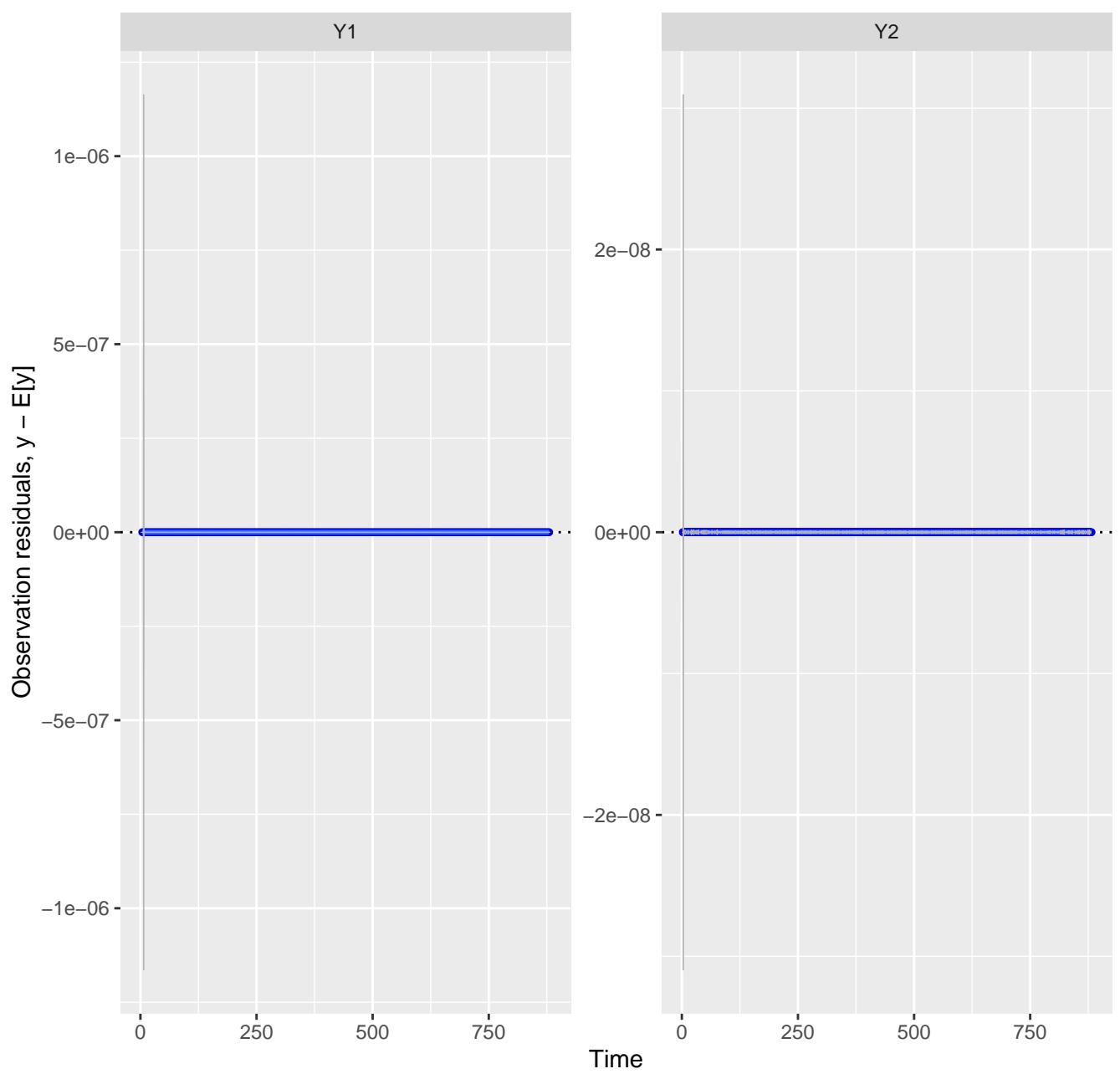


States

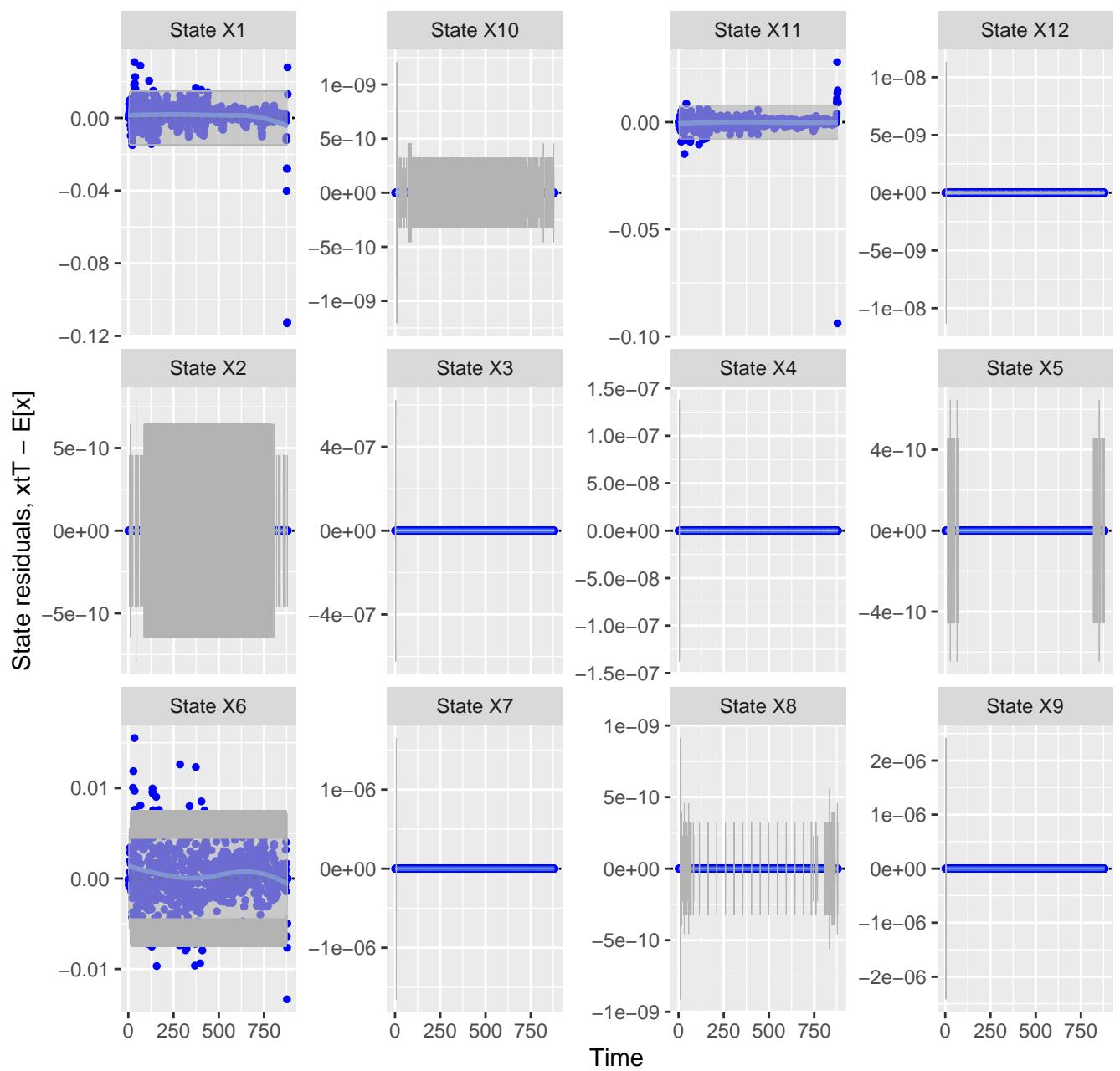
Estimate



Model residuals

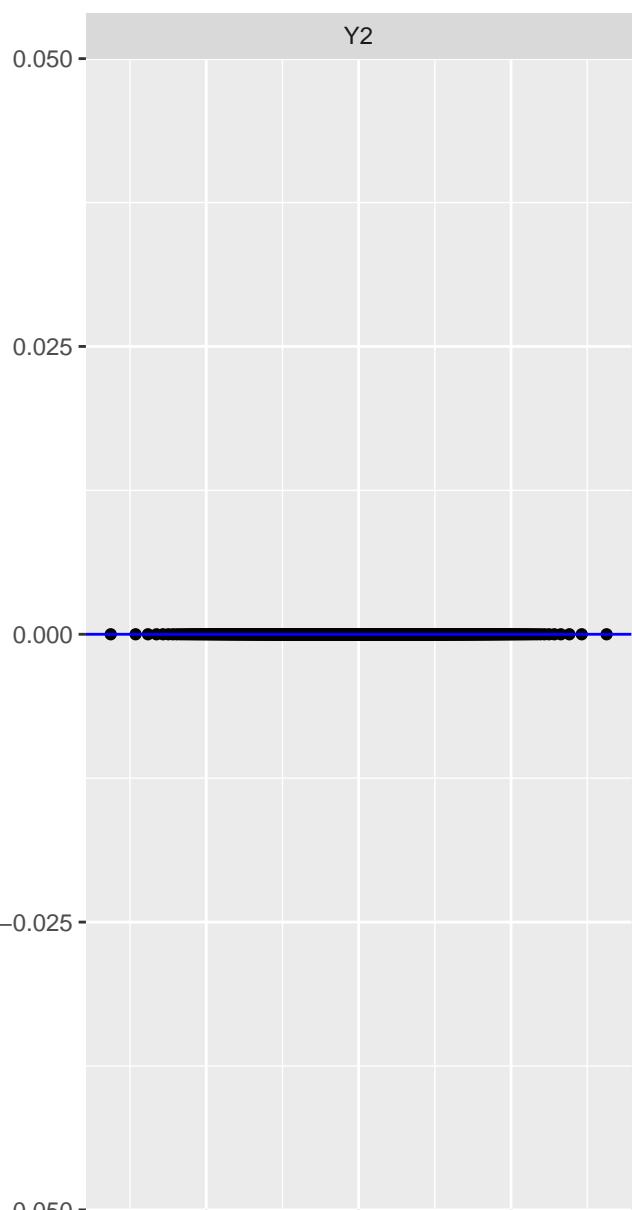
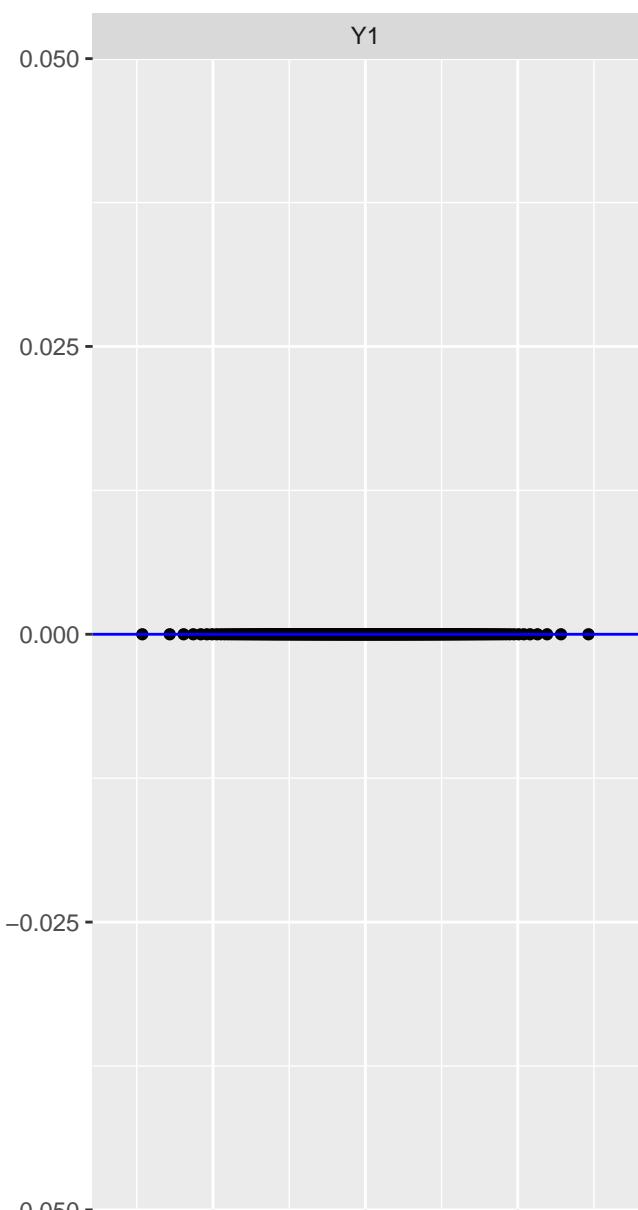


State residuals



Model residuals normality test

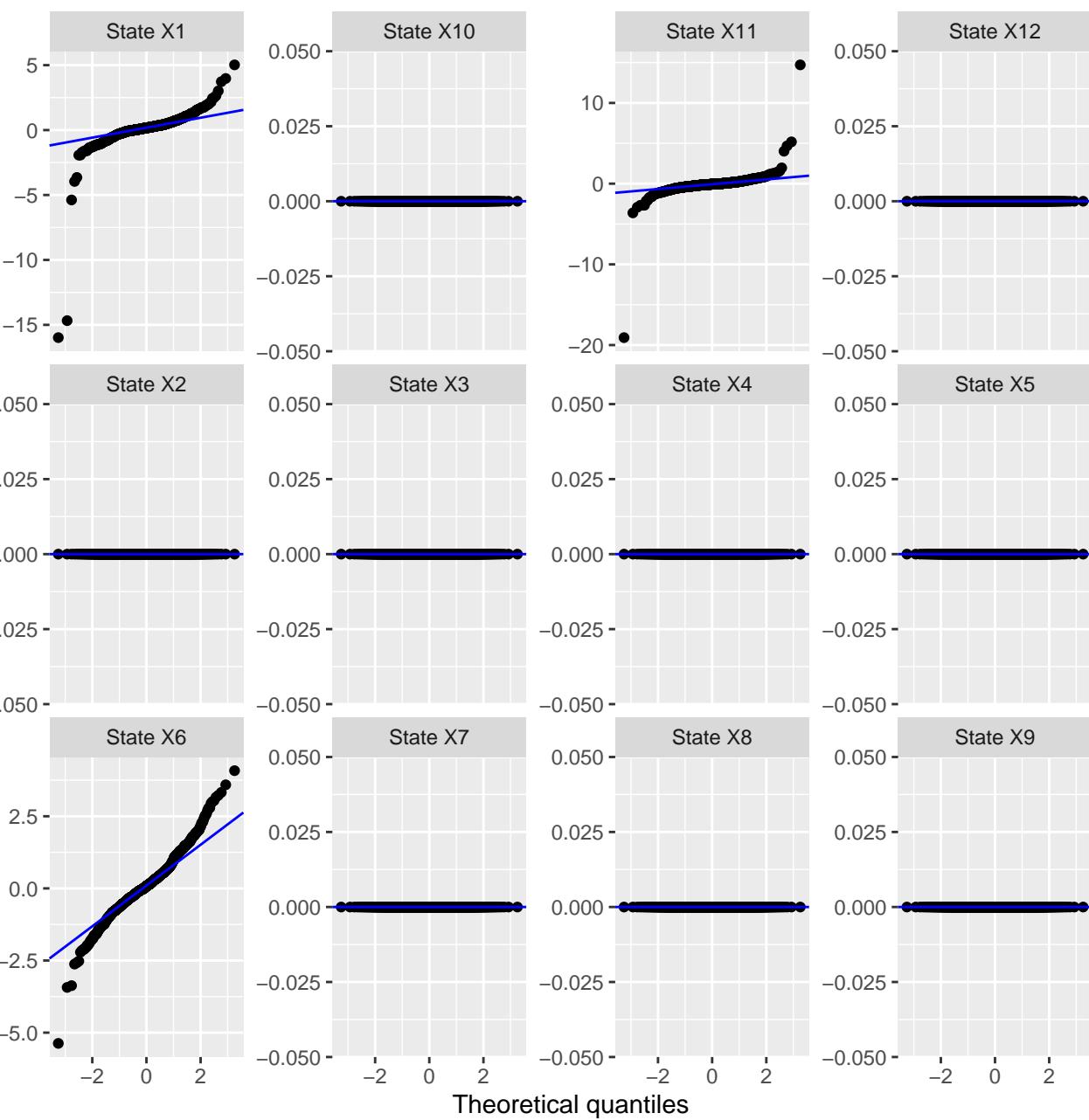
Cholesky standardized model smoothed residuals



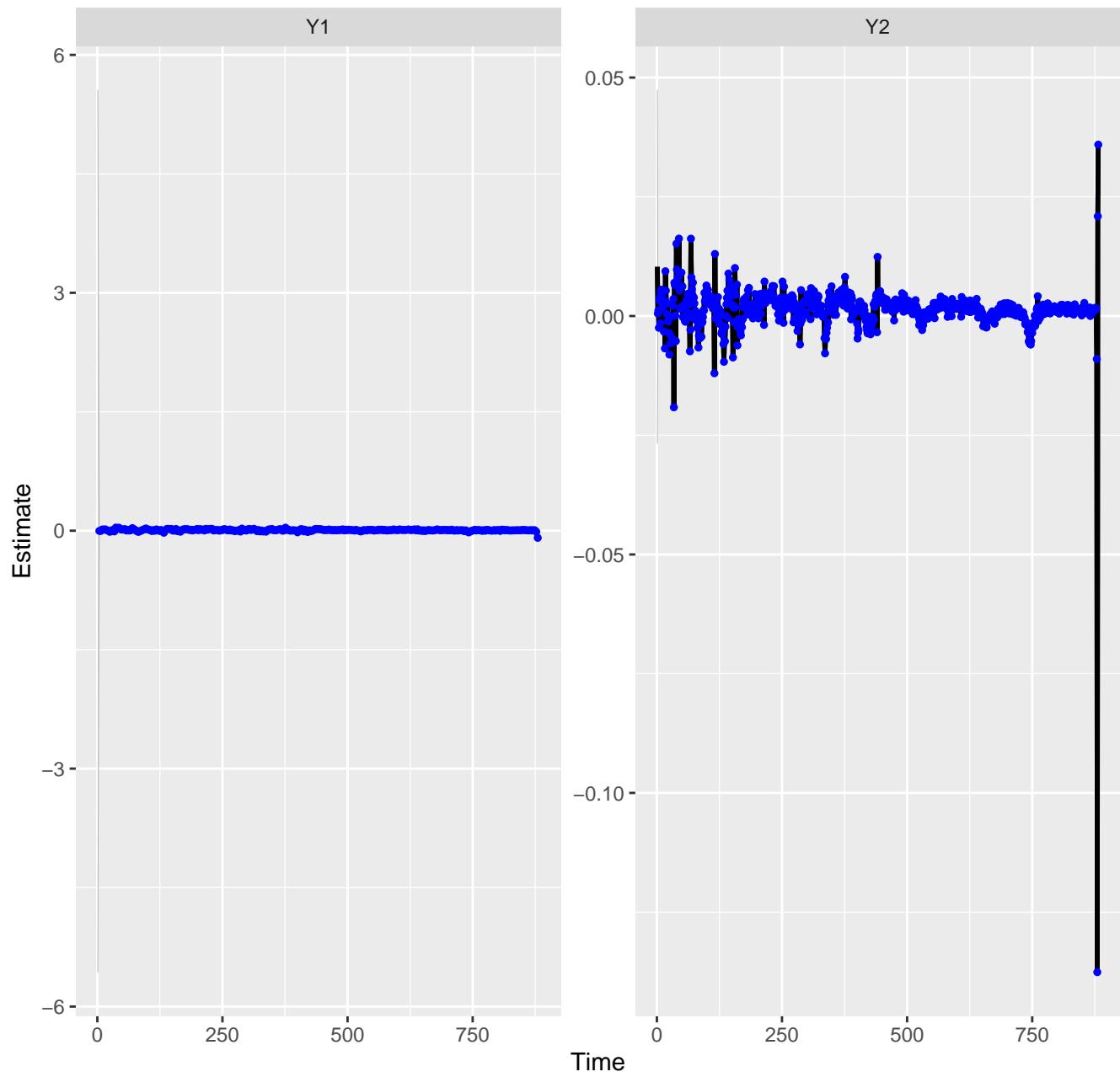
Theoretical quantiles

State residuals normality test

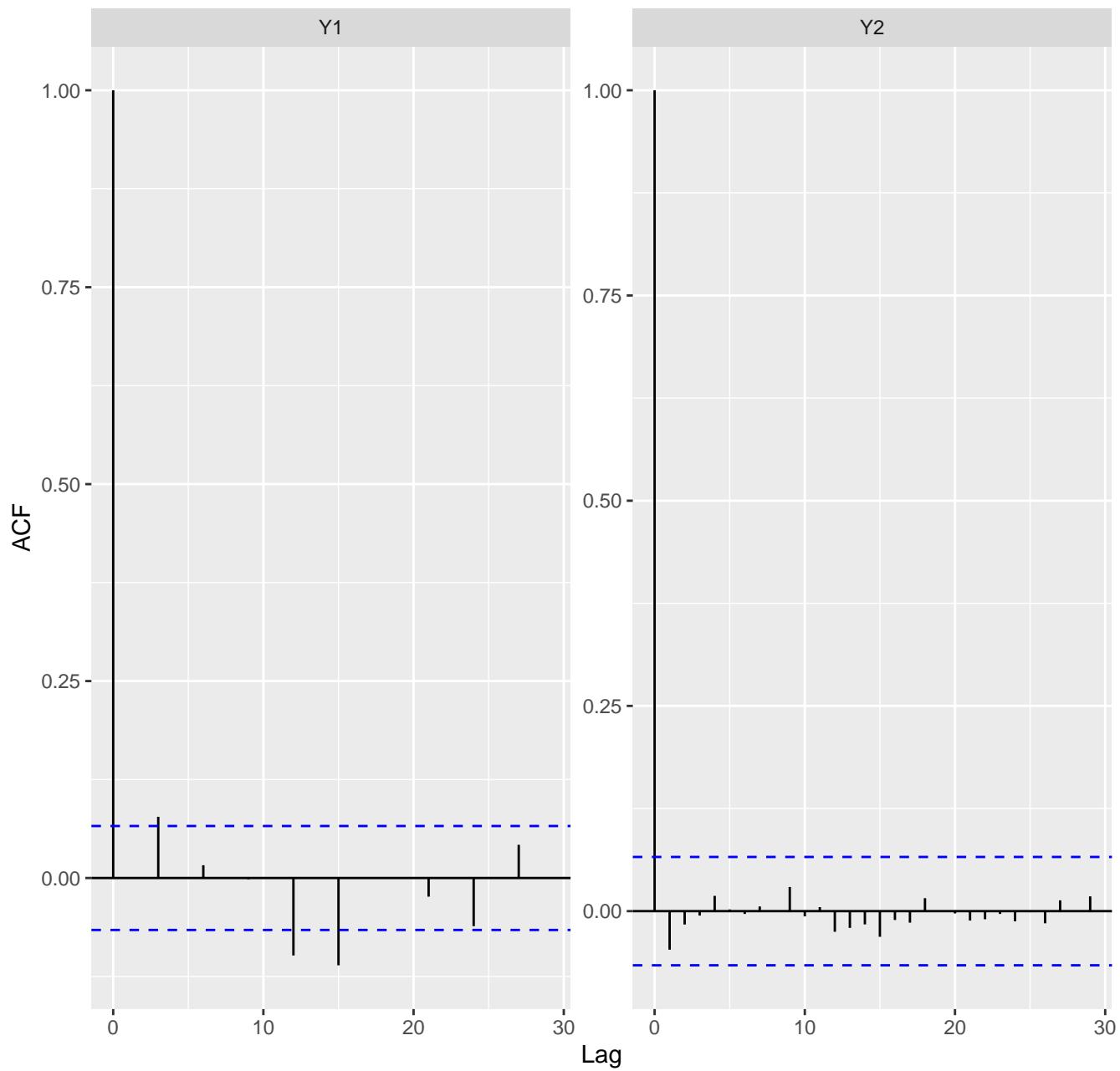
Cholesky standardized state smoothed residuals



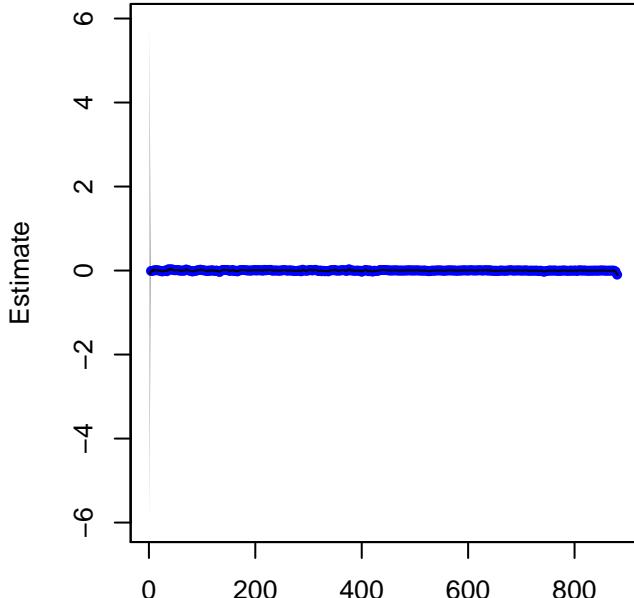
Expected value of Y conditioned on data



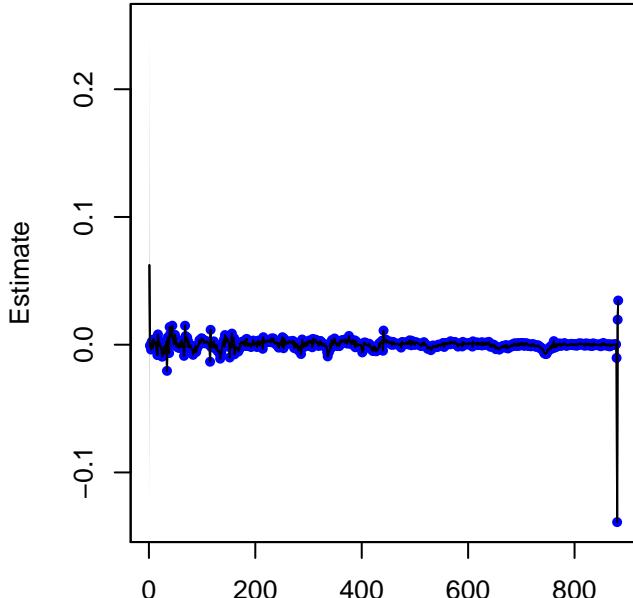
Model innovations residuals ACF



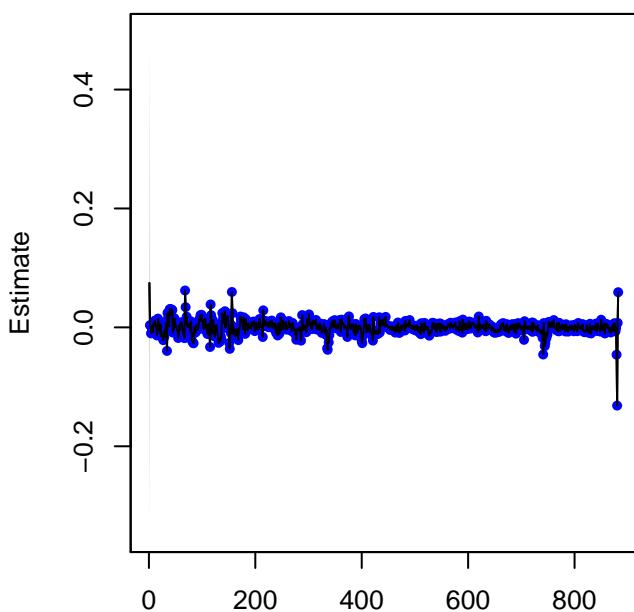
$Y1 + CI$

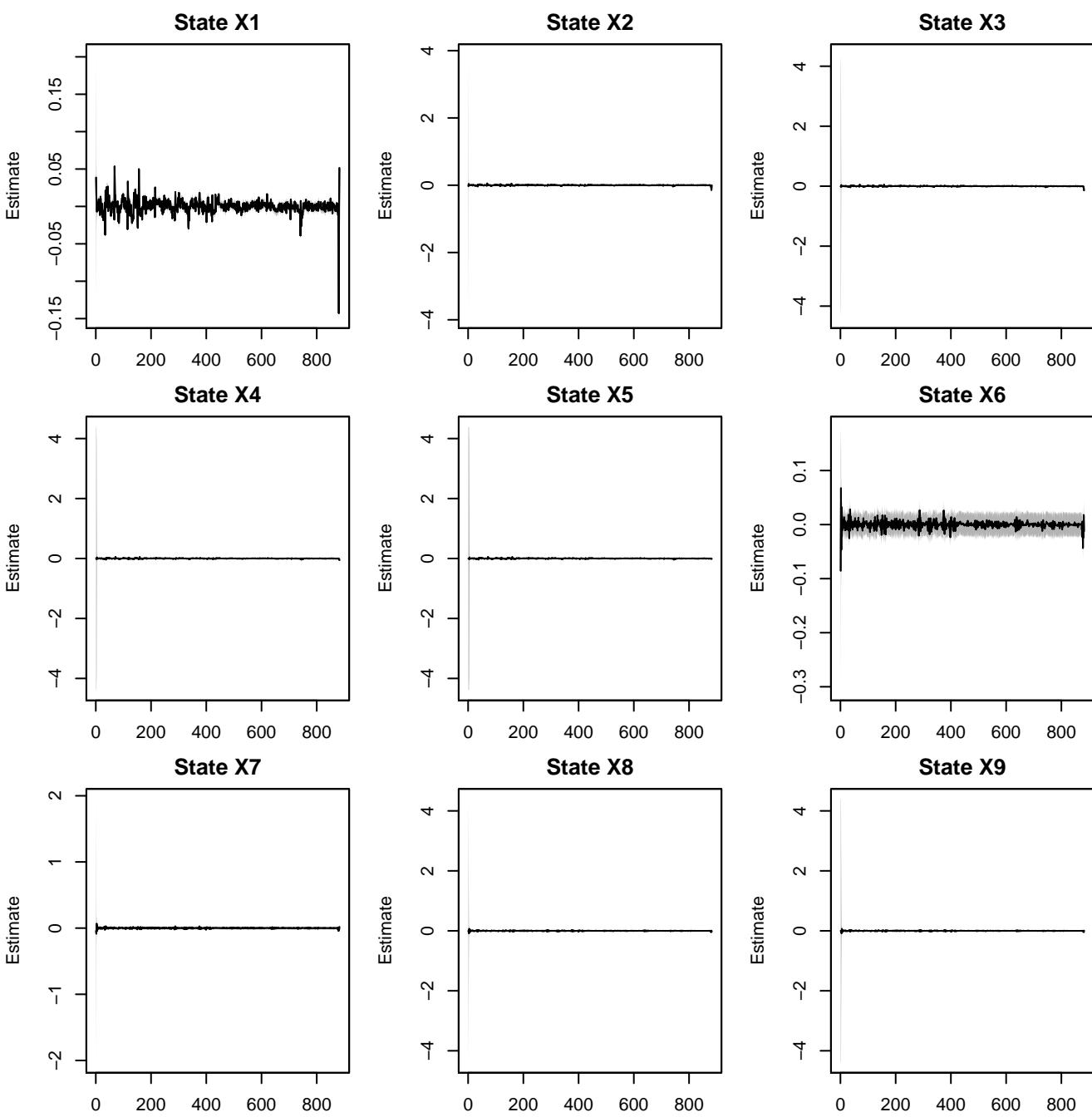


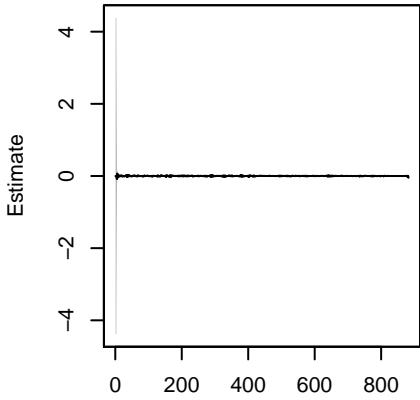
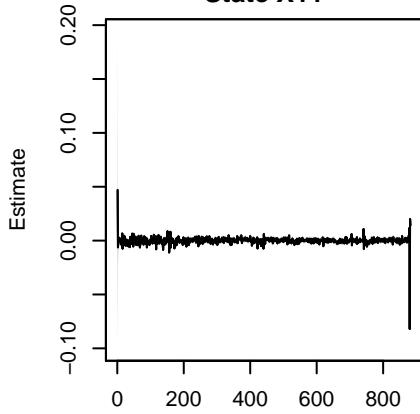
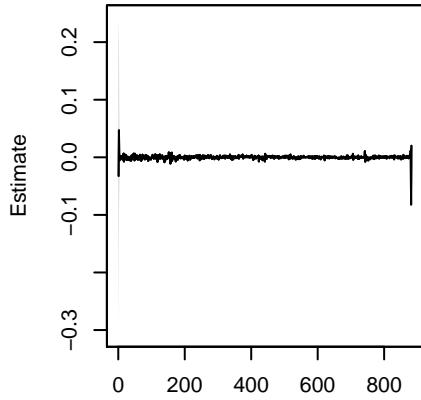
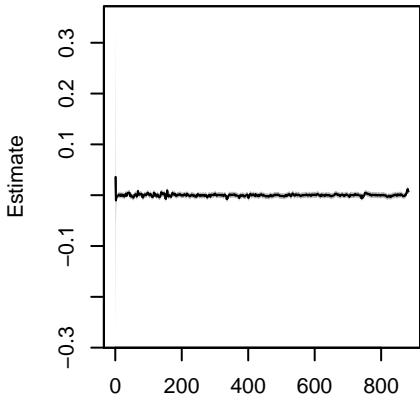
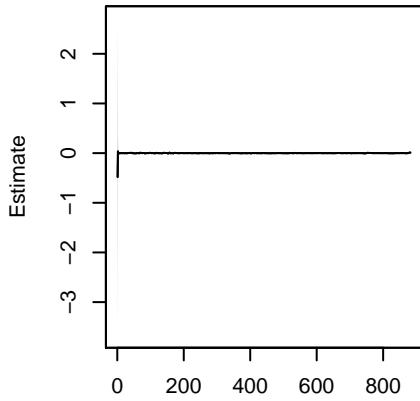
$Y2 + CI$



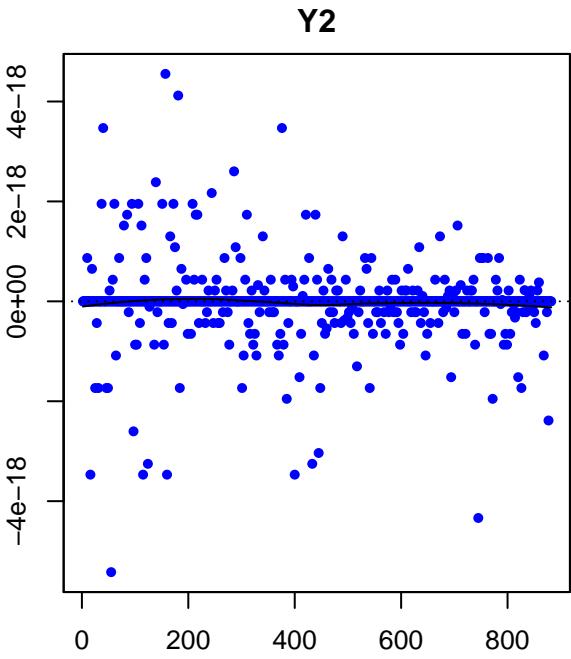
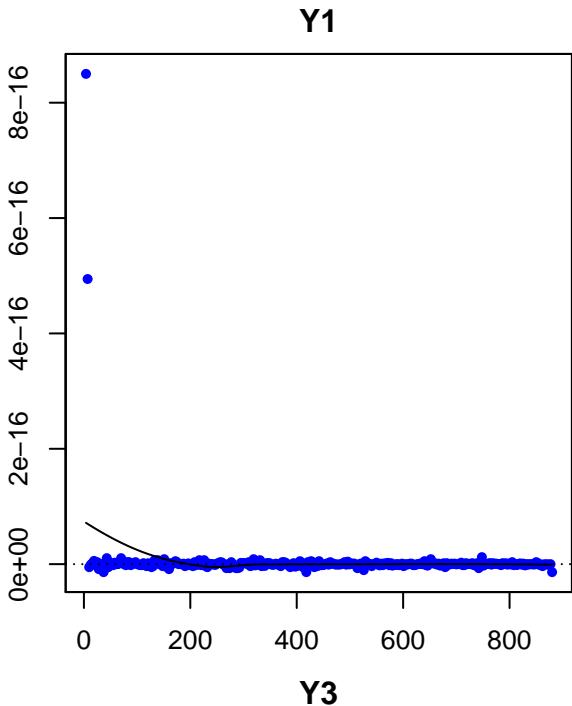
$Y3 + CI$



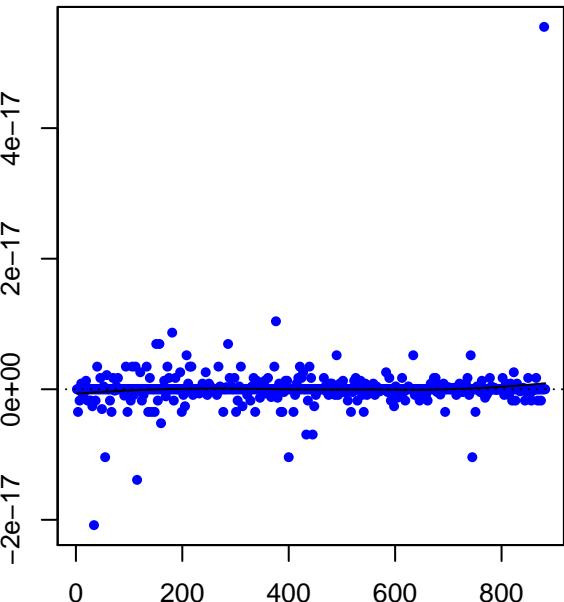


State X10**State X11****State X12****State X13****State X14**

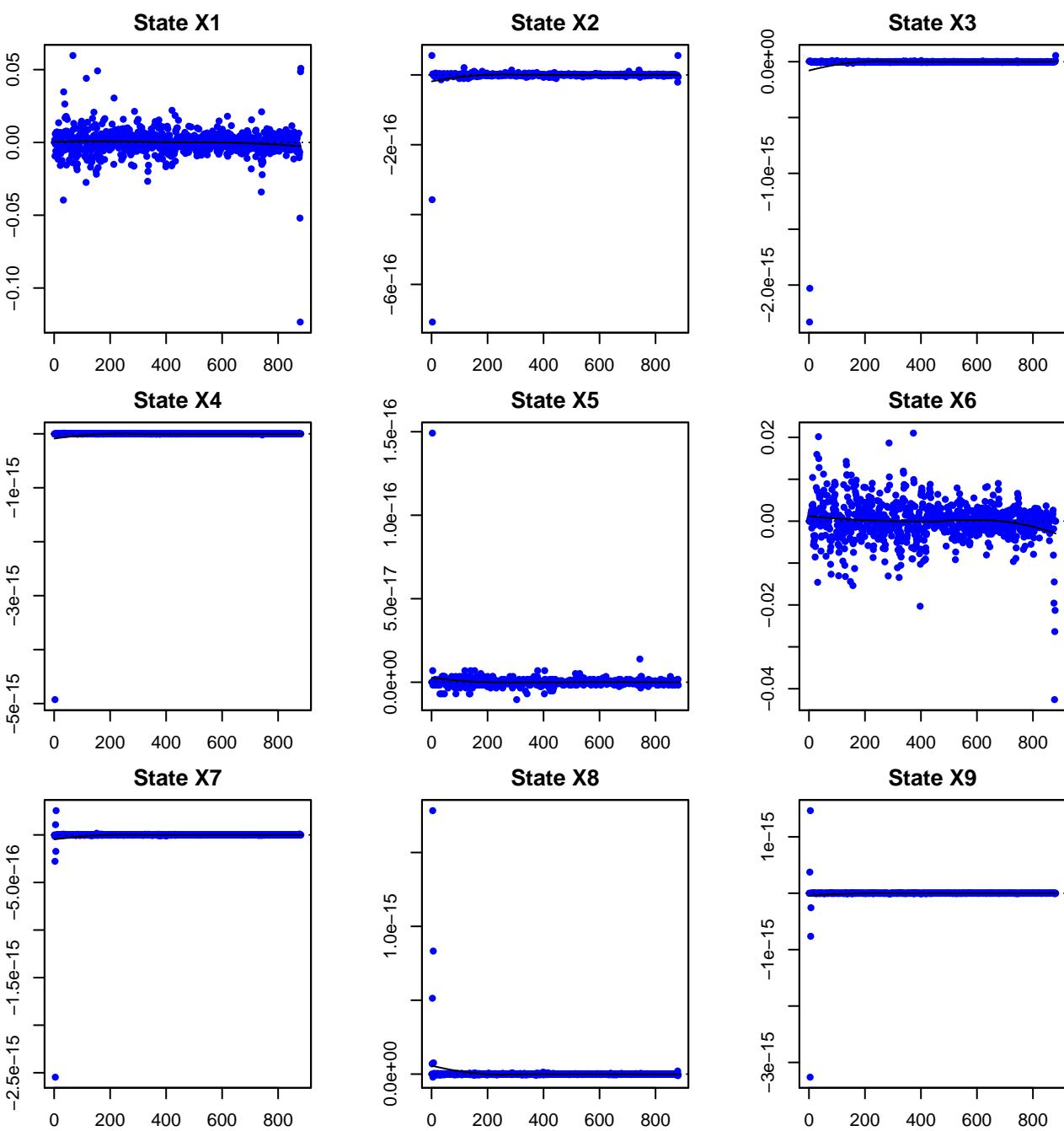
Observation residuals, $y - E[y]$



Y3

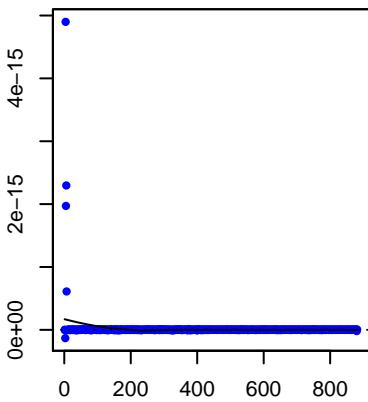


State residuals, $x_t - E[x]$

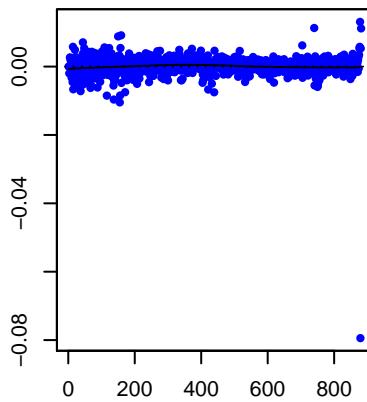


State residuals, $x_t - E[x]$

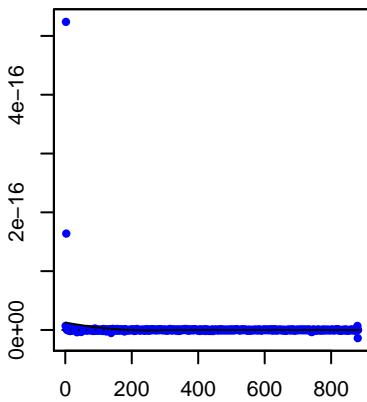
State X10



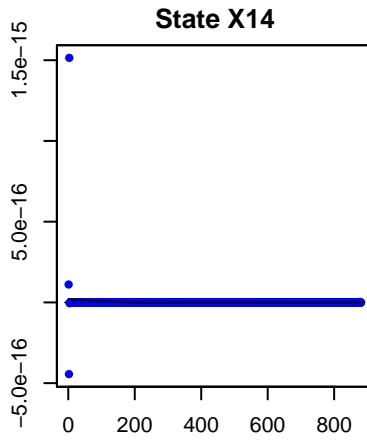
State X11



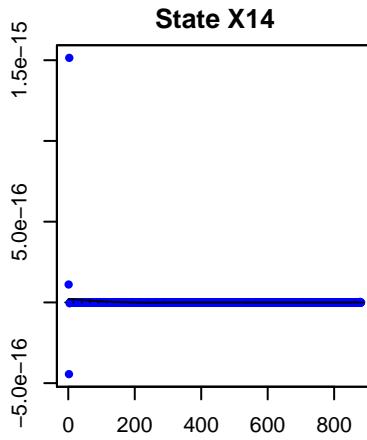
State X12



State X13

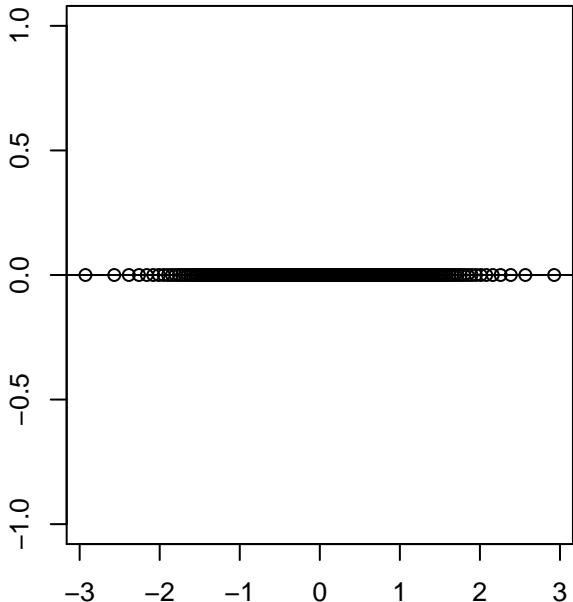


State X14

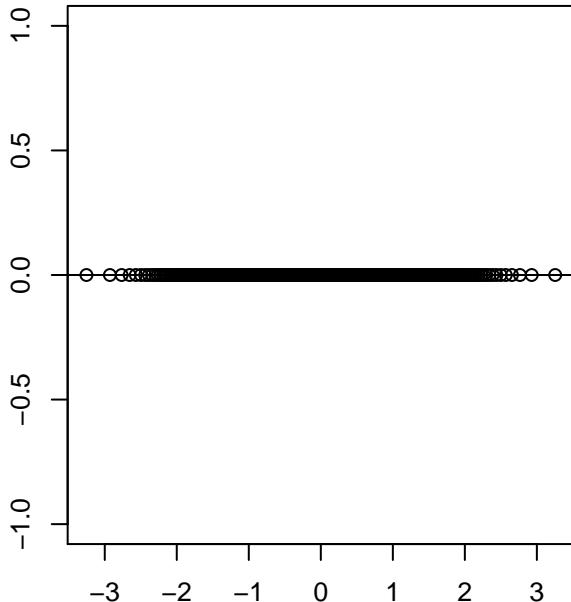


Y1

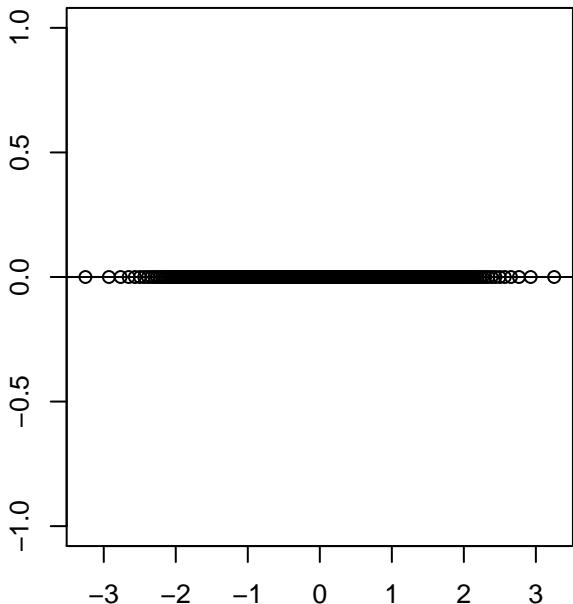
Sample Quantiles

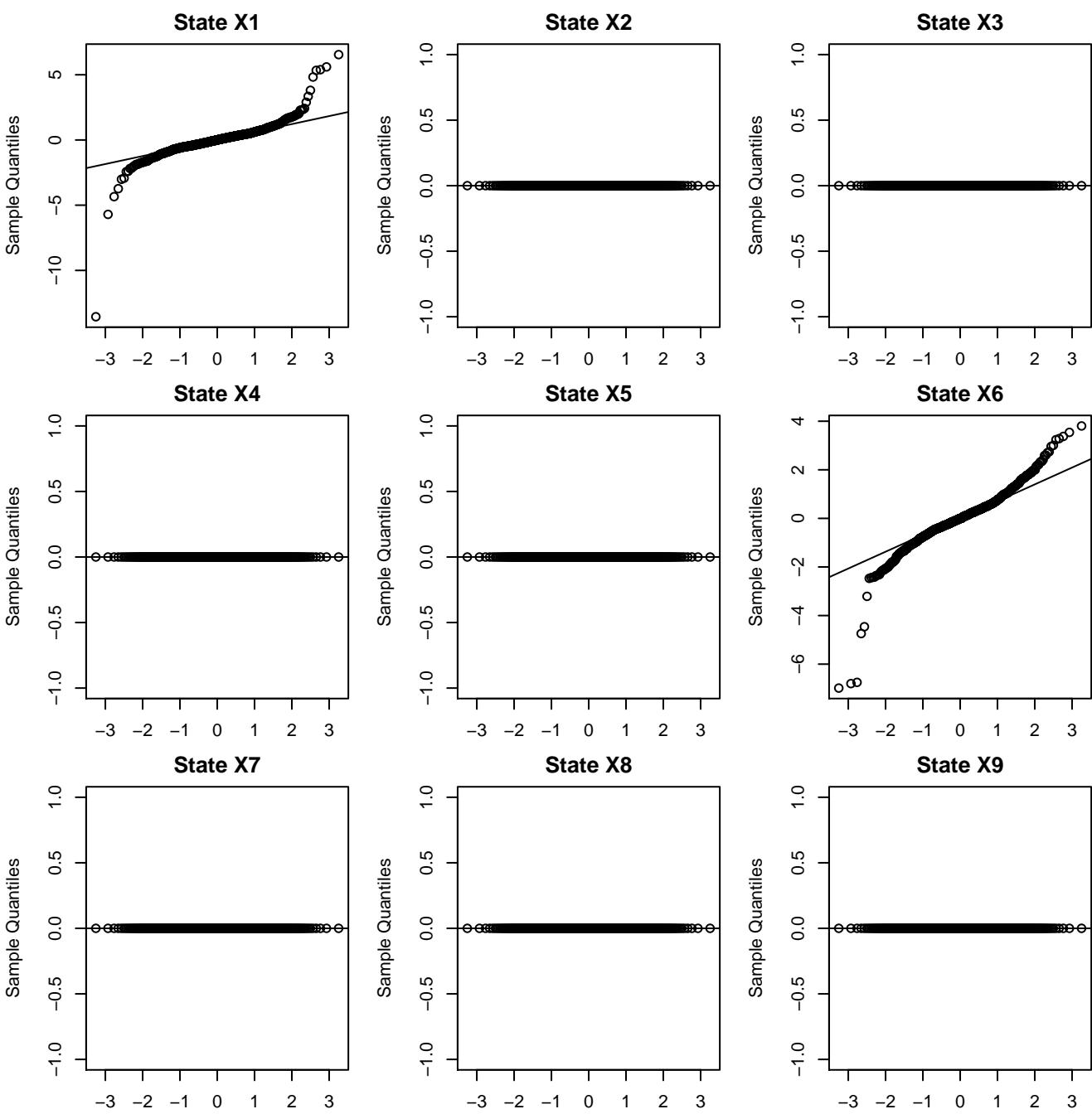
**Y2**

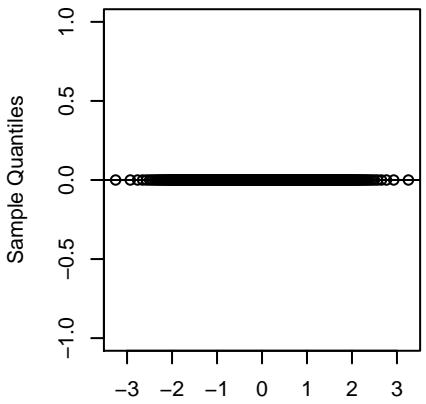
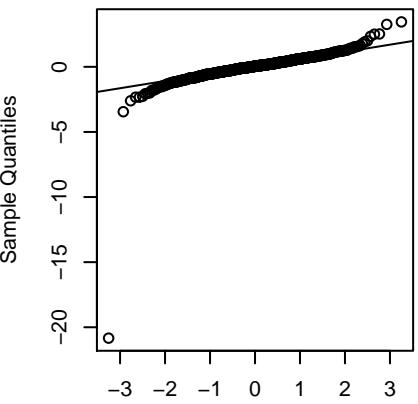
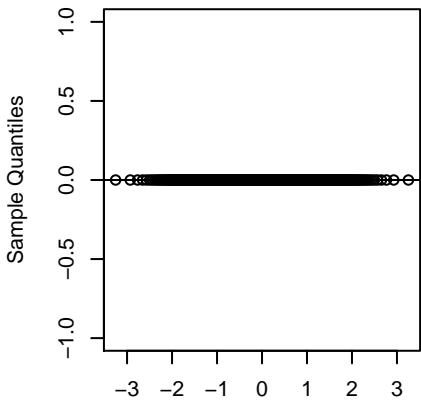
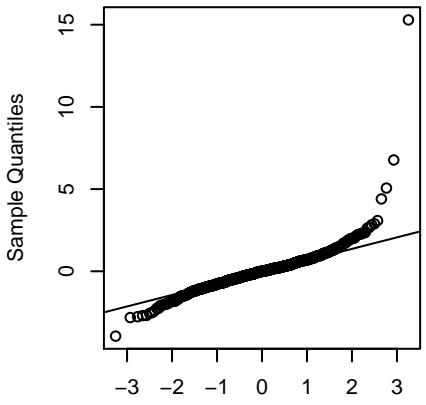
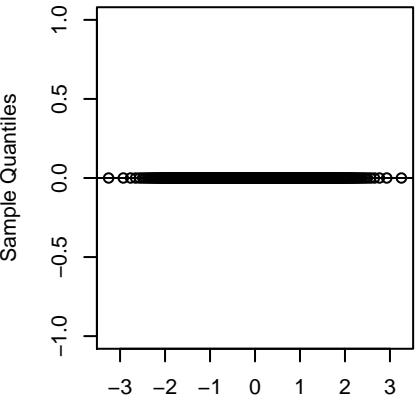
Sample Quantiles

**Y3**

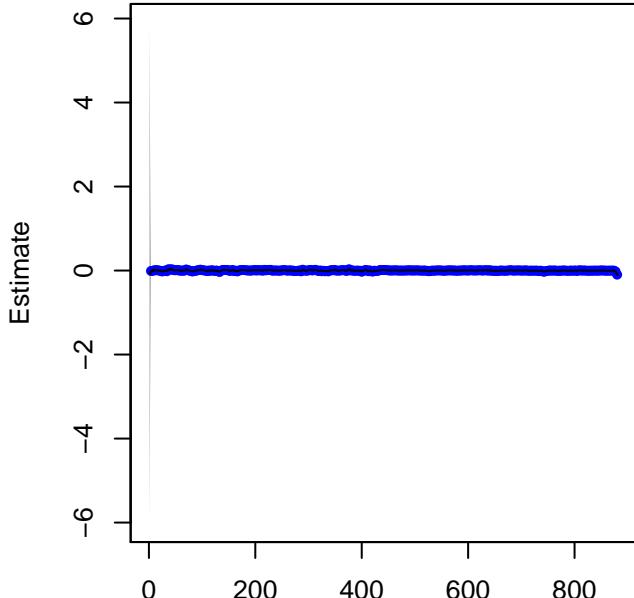
Sample Quantiles



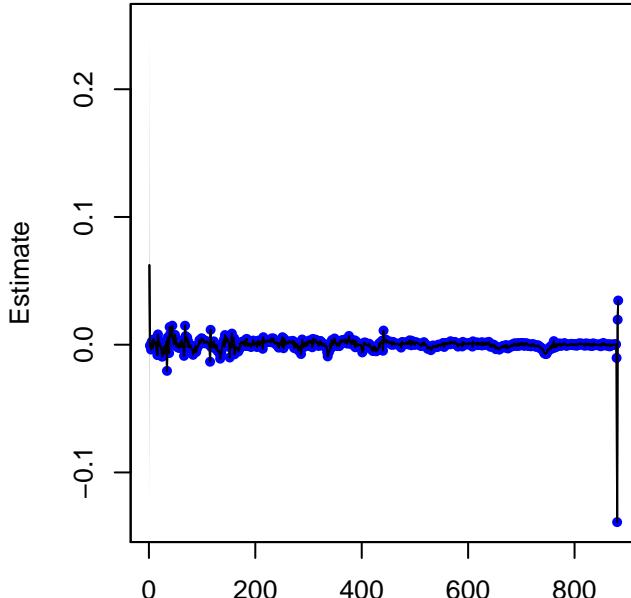


State X10**State X11****State X12****State X13****State X14**

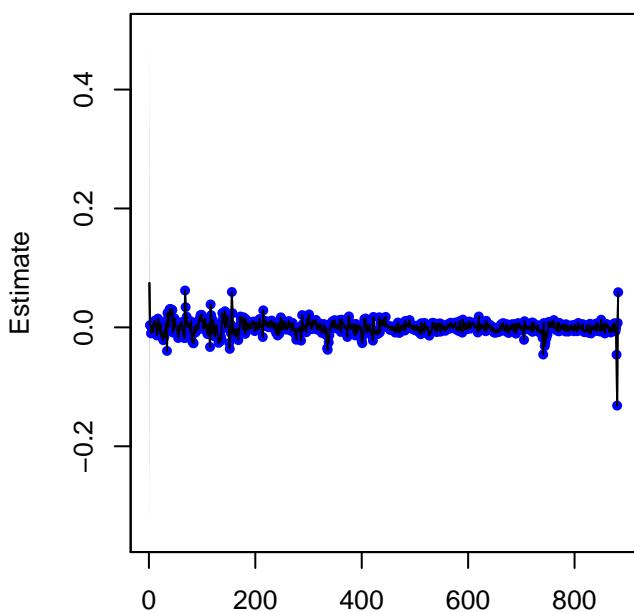
$Y1 + CI$



$Y2 + CI$

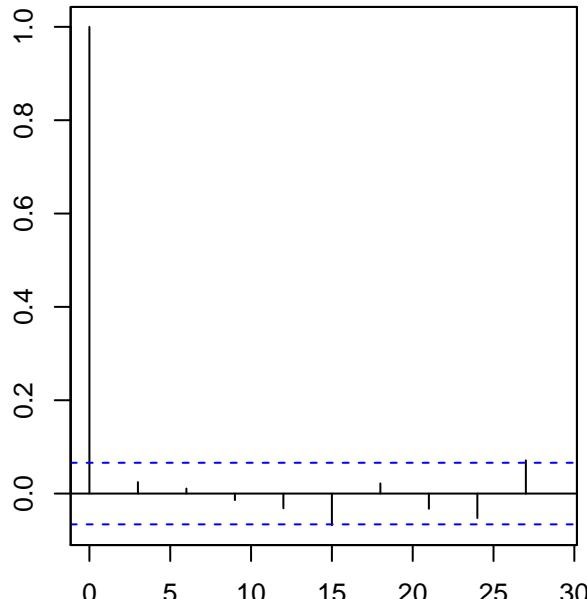


$Y3 + CI$

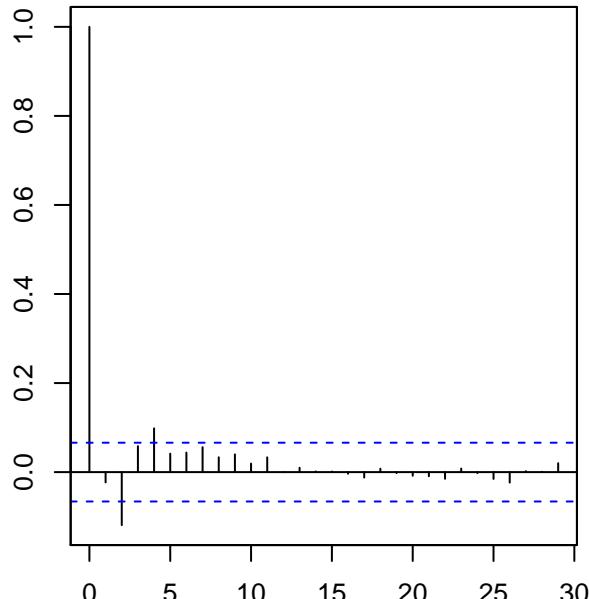


Y1

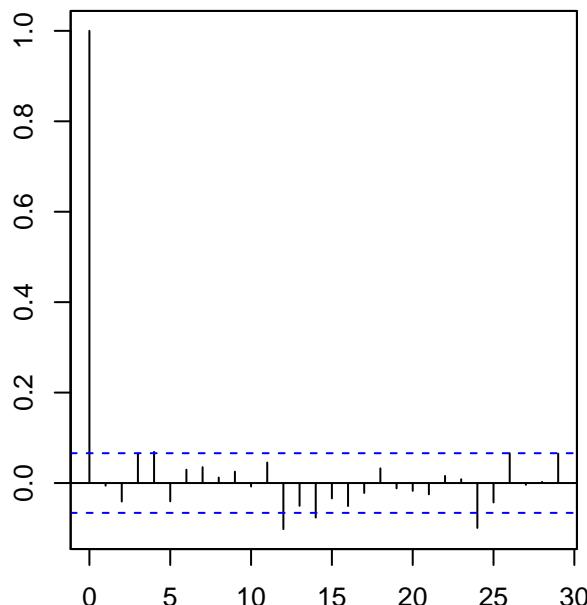
ACF

**Y2**

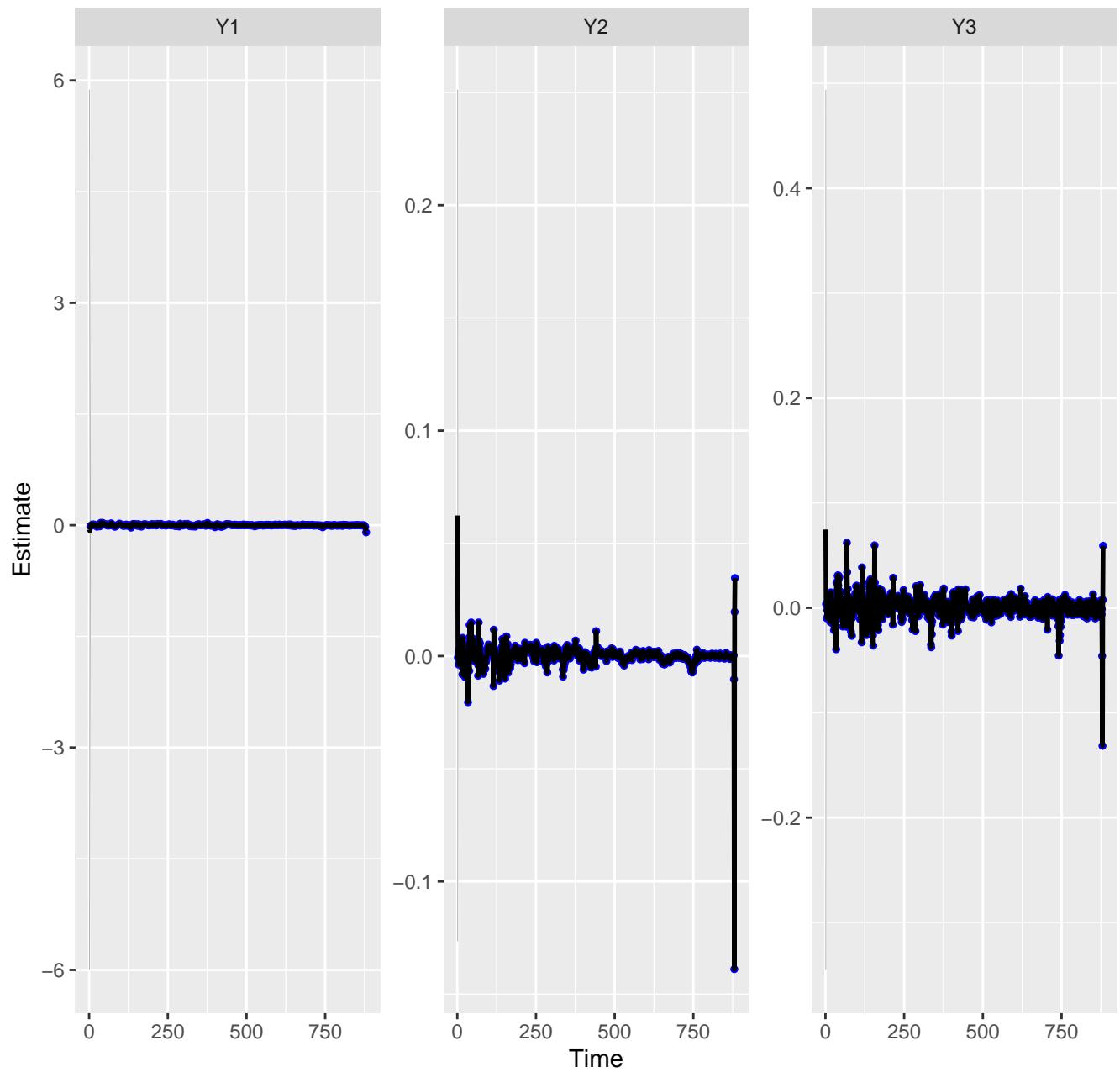
ACF

**Y3**

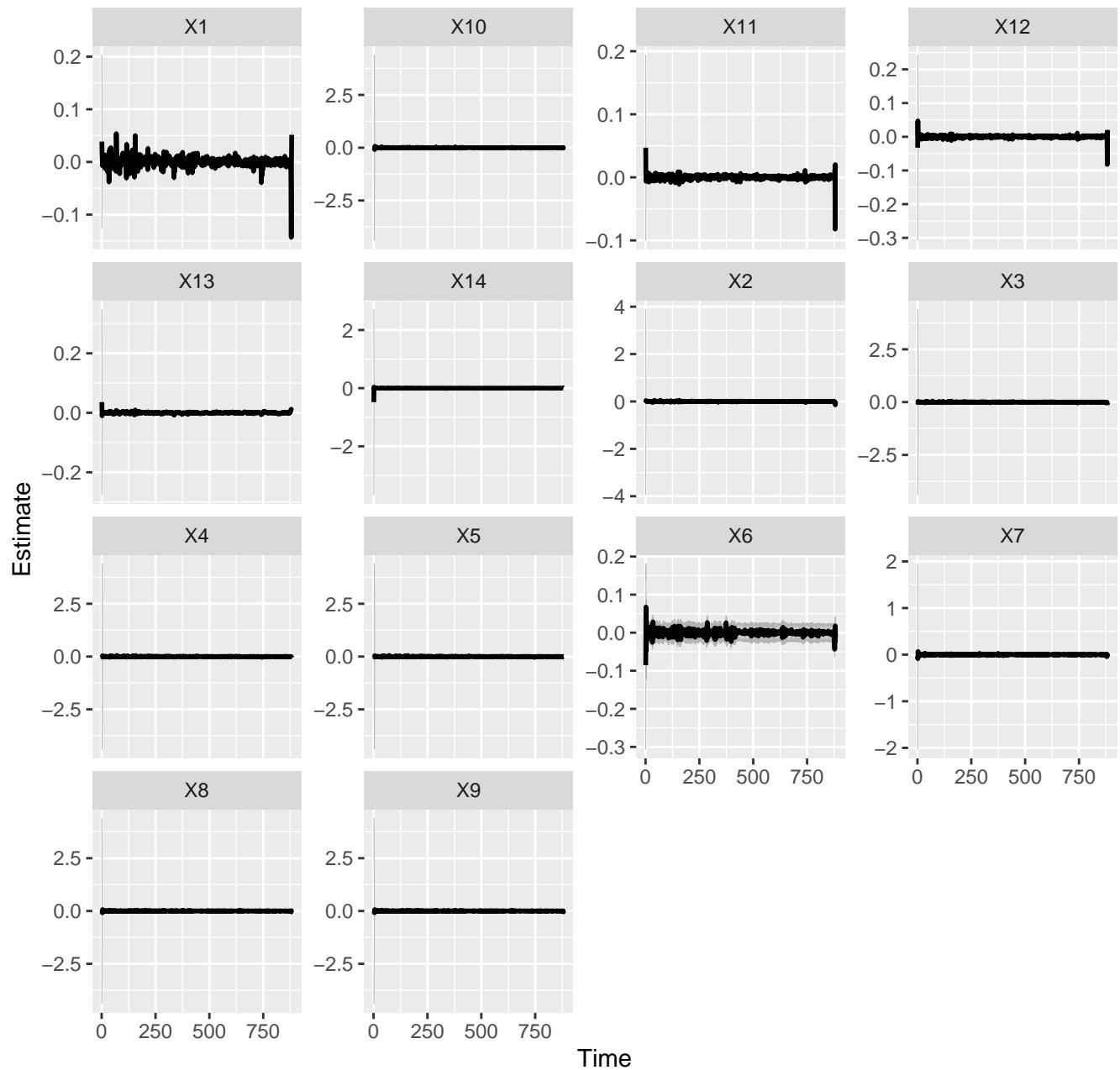
ACF



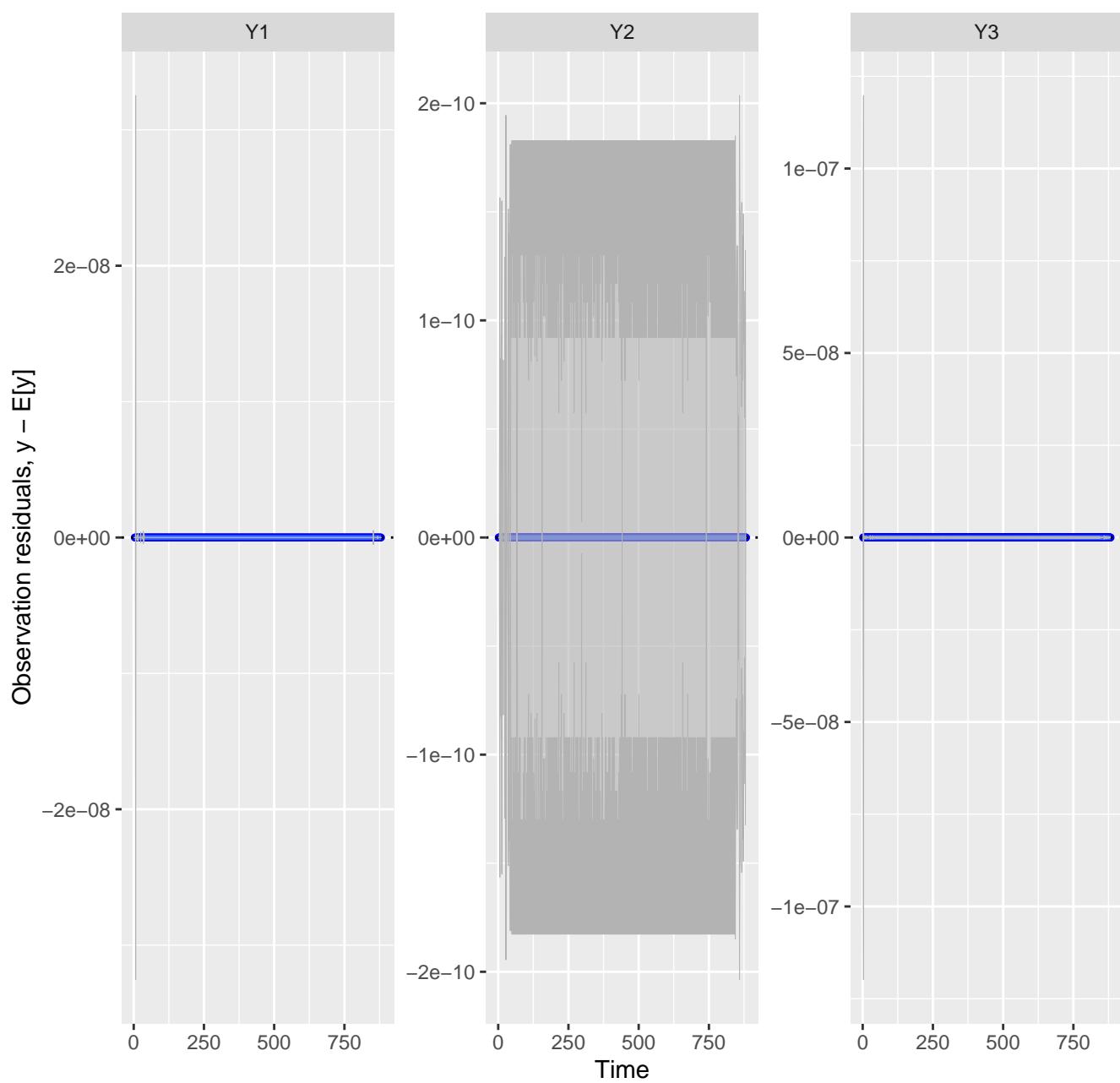
Model fitted Y + CI



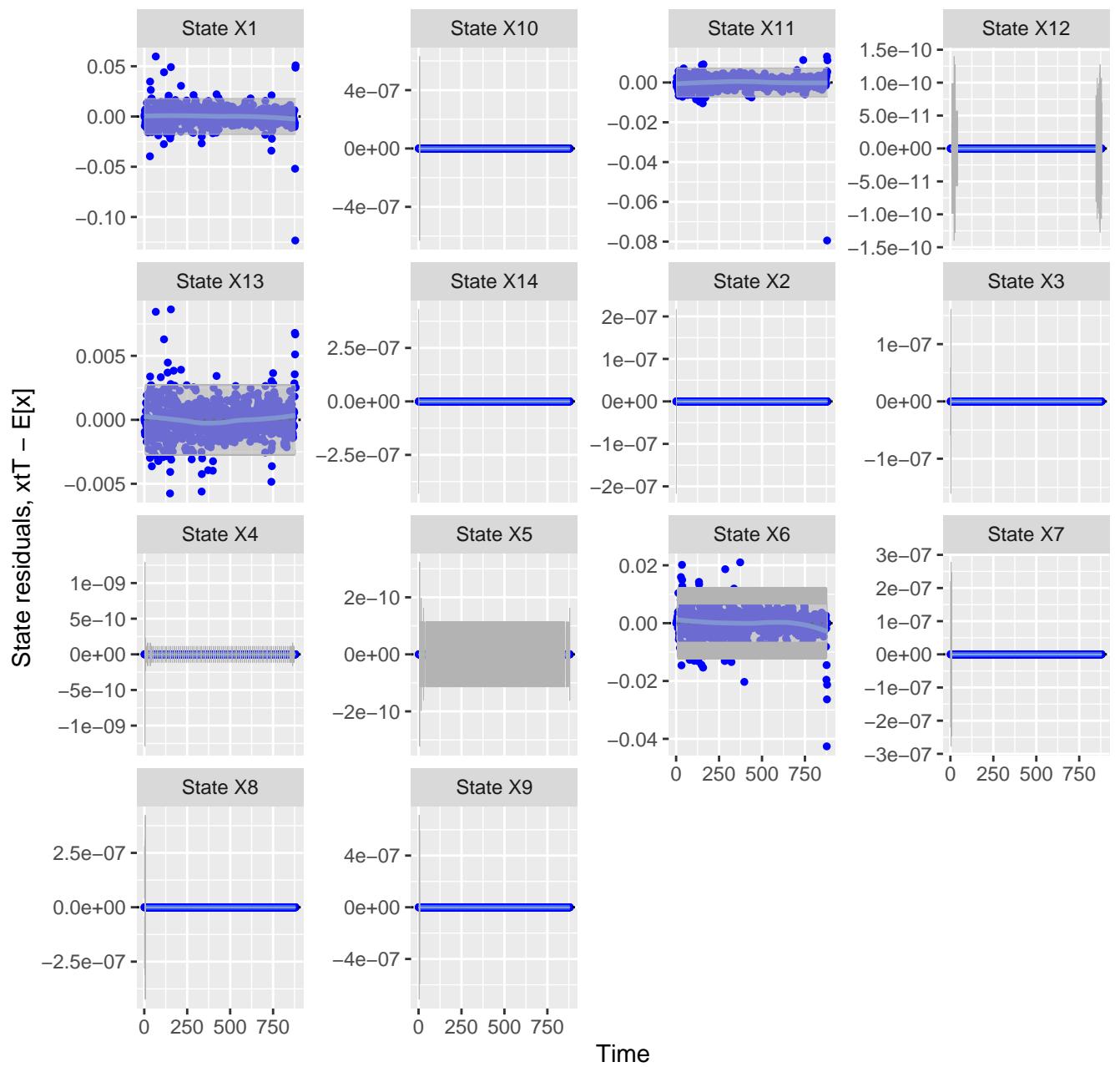
States



Model residuals

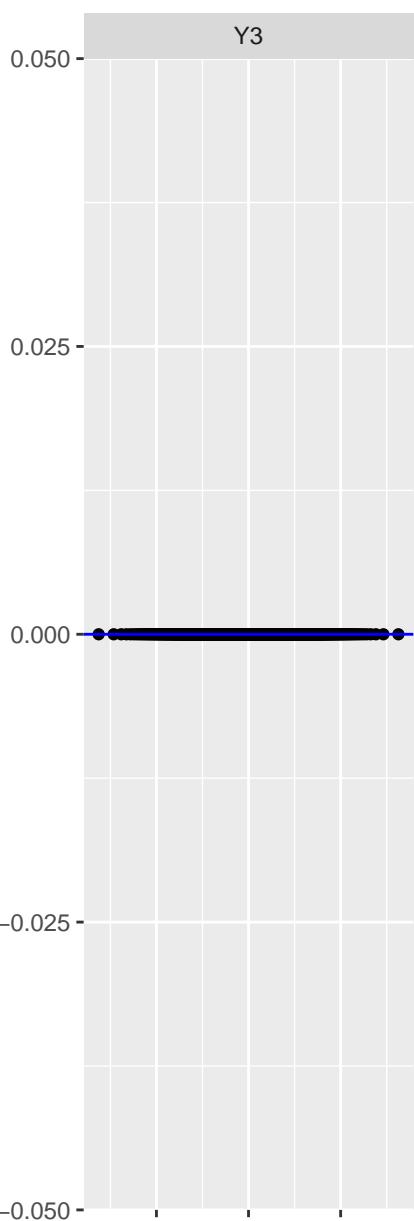
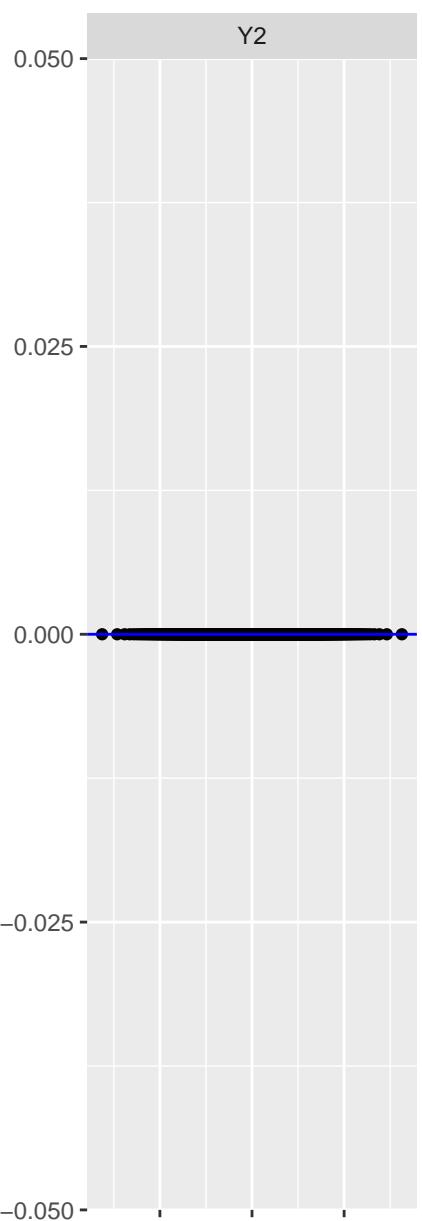
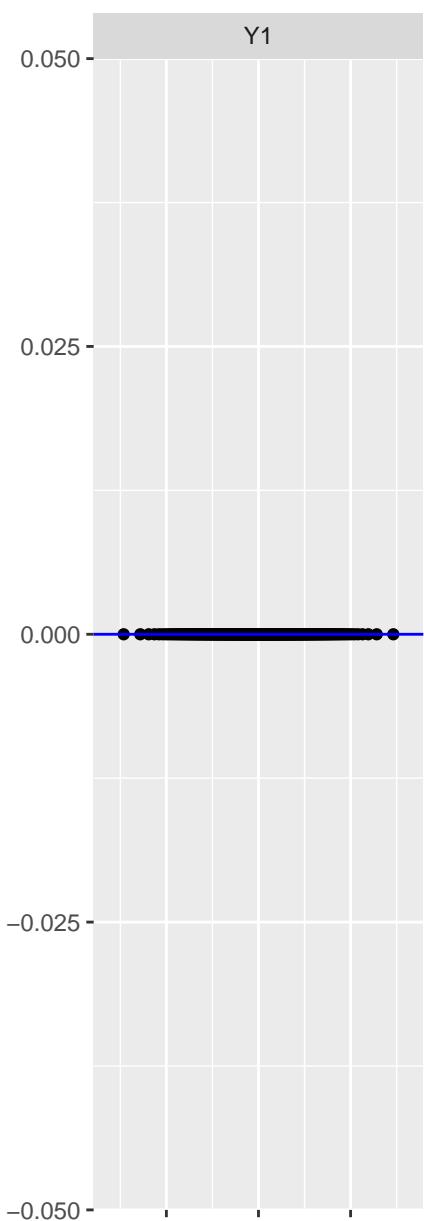


State residuals



Model residuals normality test

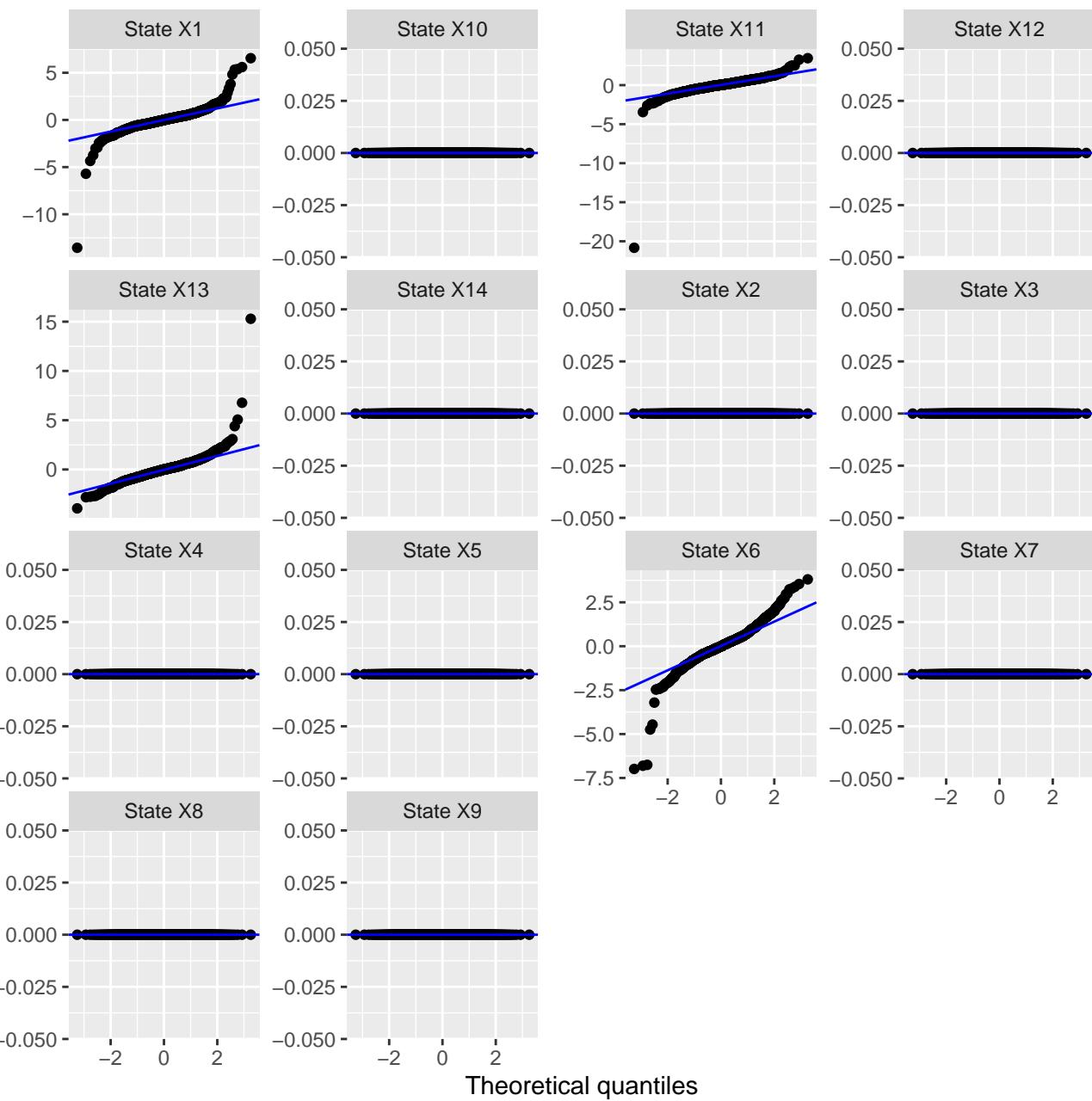
Cholesky standardized model smoothed residuals



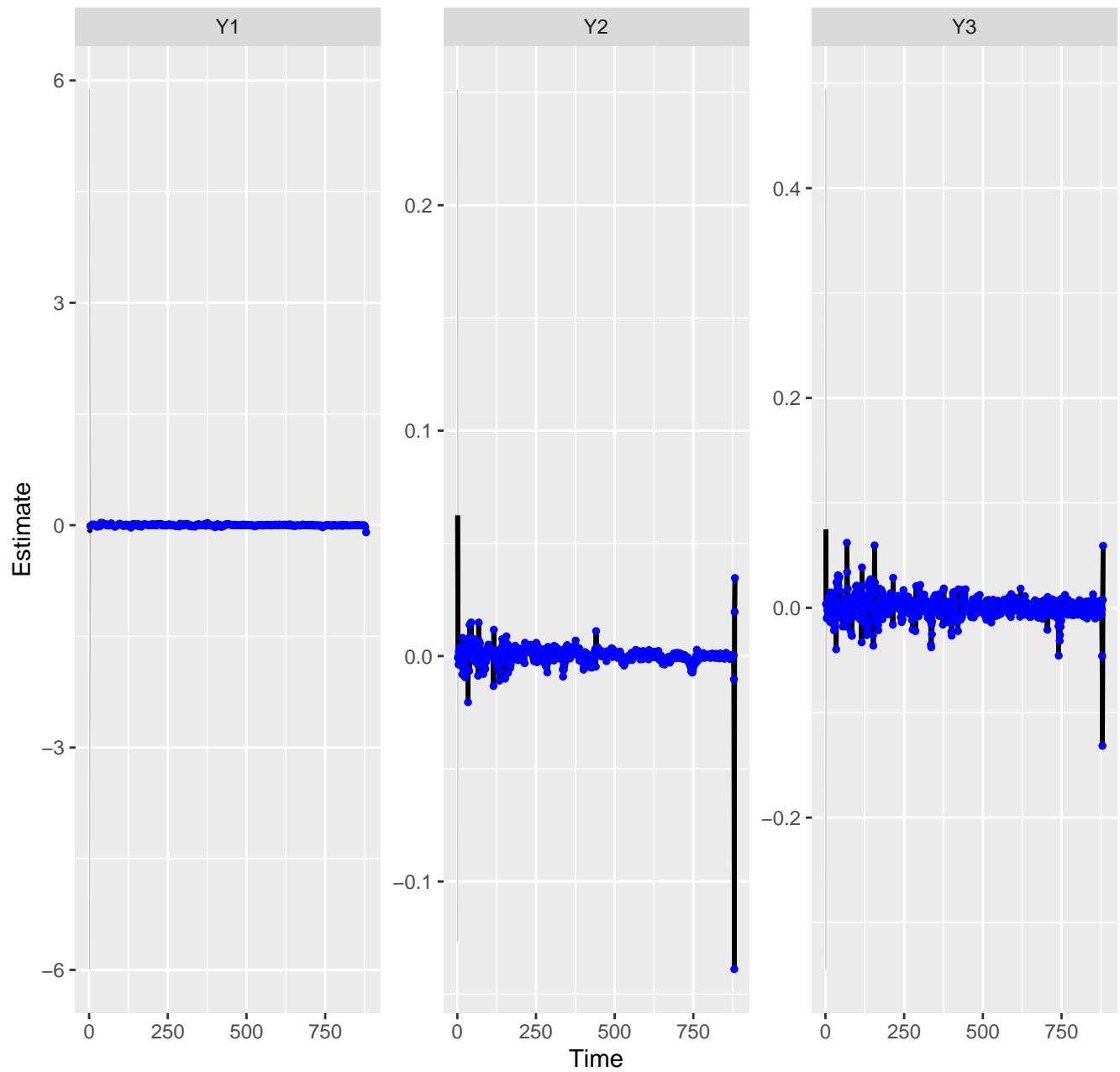
Theoretical quantiles

State residuals normality test

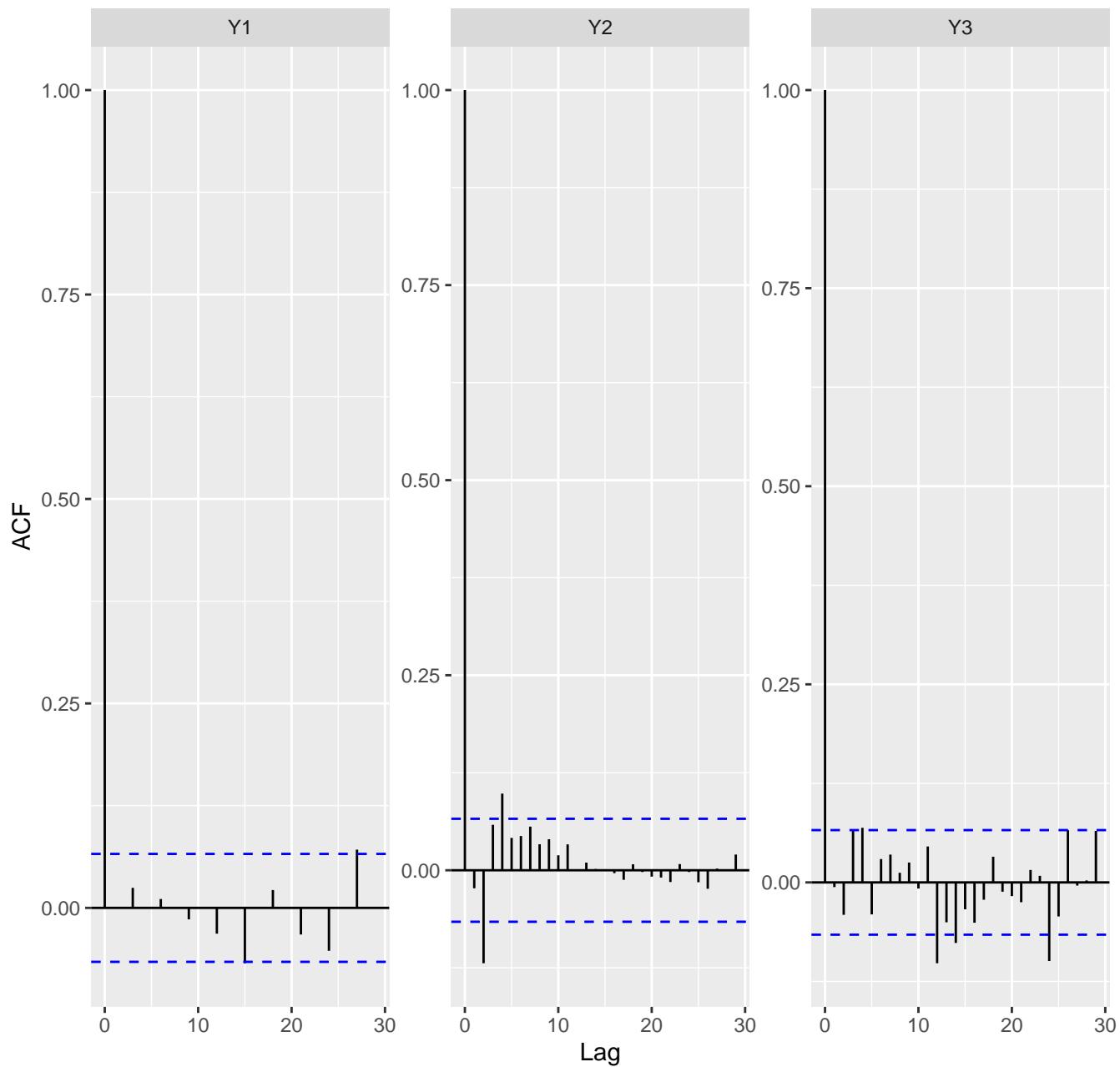
Cholesky standardized state smoothed residuals



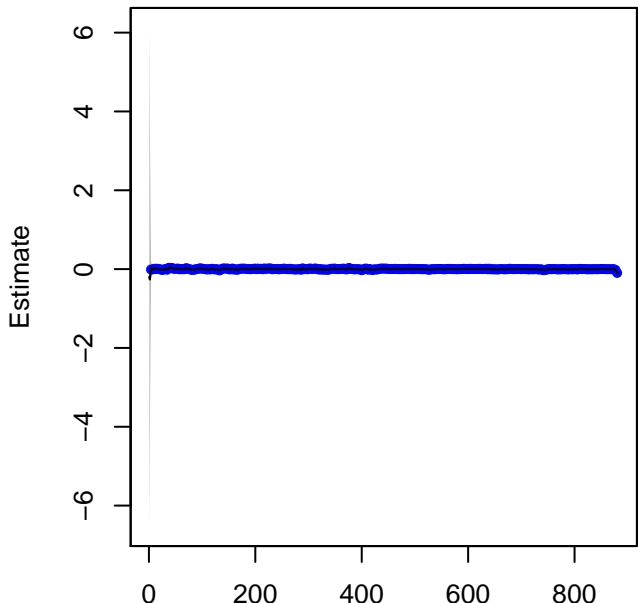
Expected value of Y conditioned on data



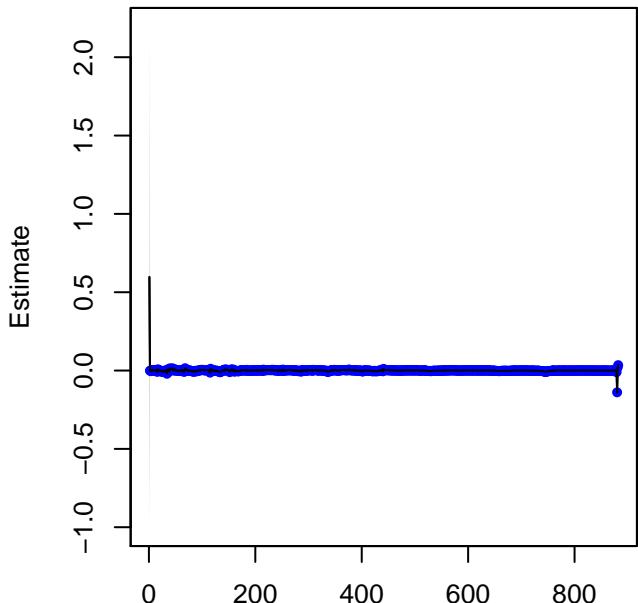
Model innovations residuals ACF



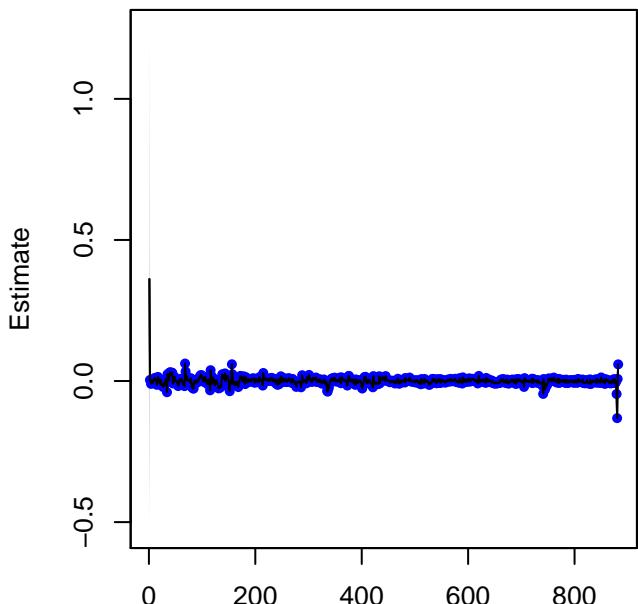
$Y1 + CI$



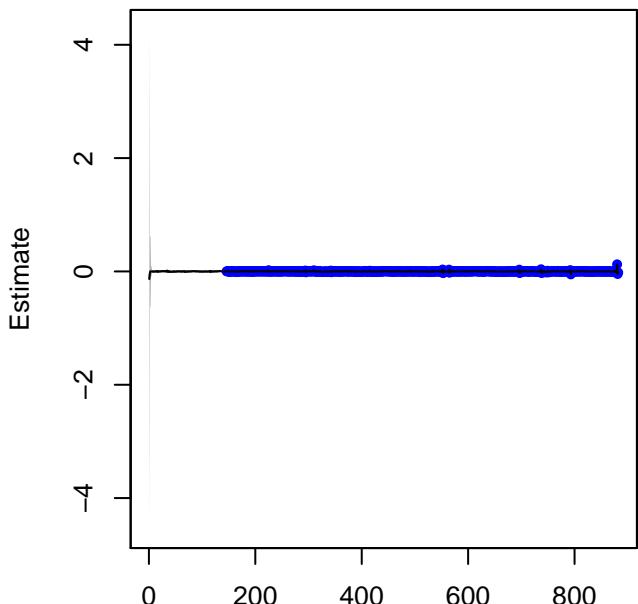
$Y2 + CI$

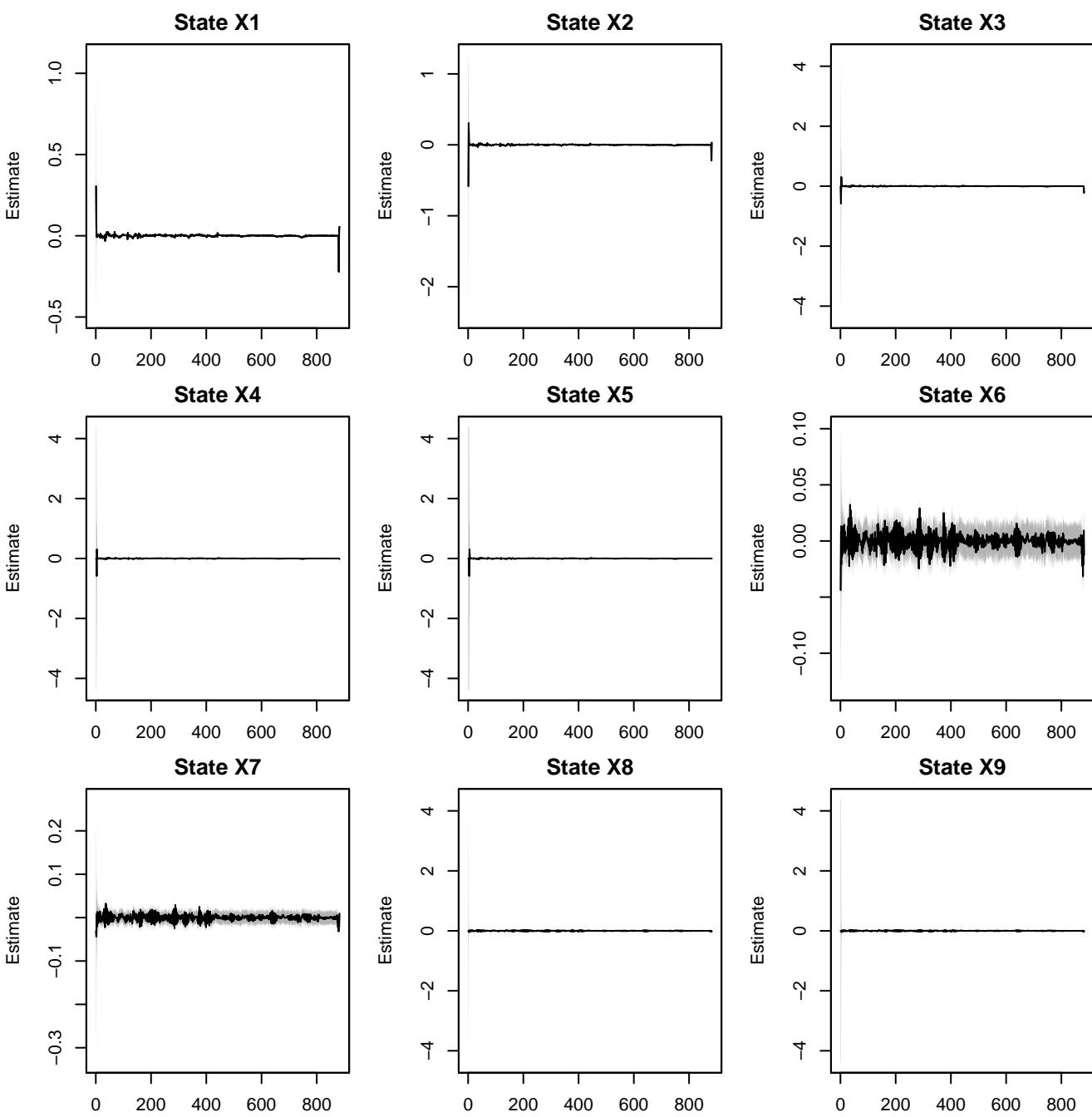


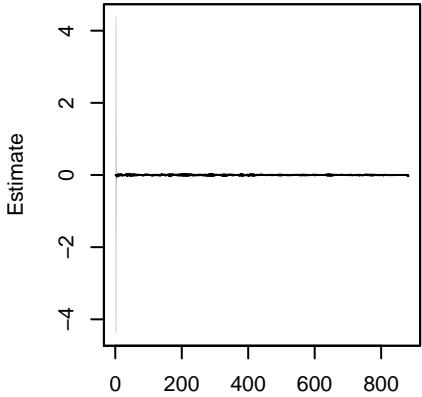
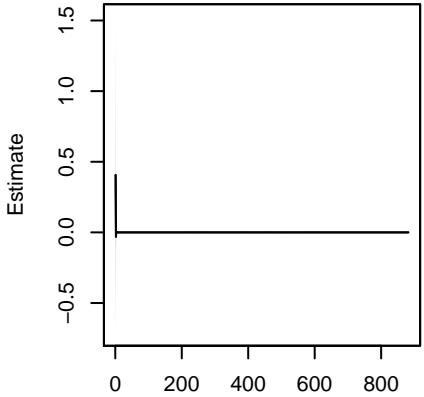
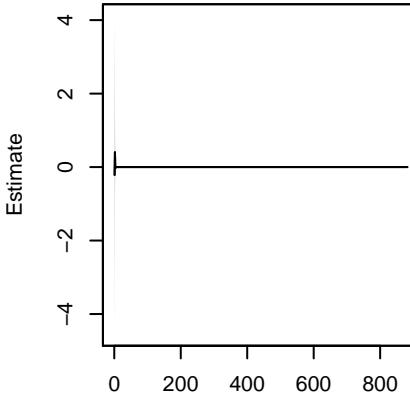
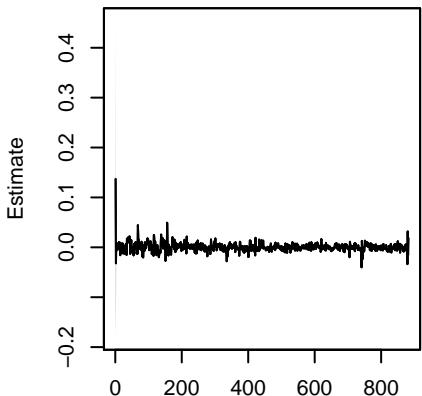
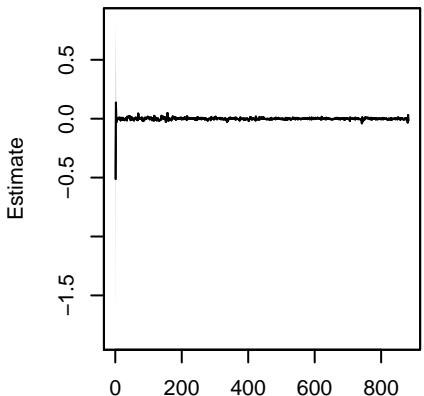
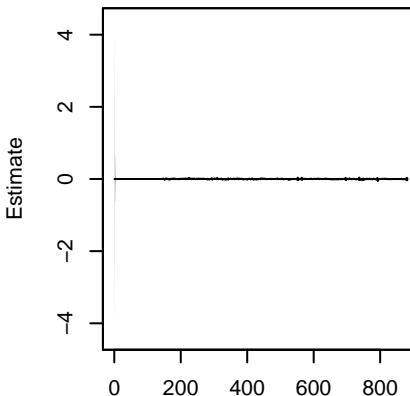
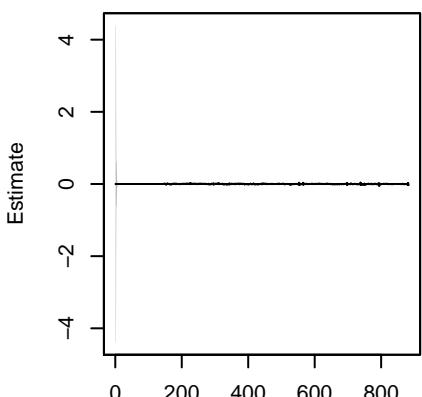
$Y3 + CI$



$Y4 + CI$

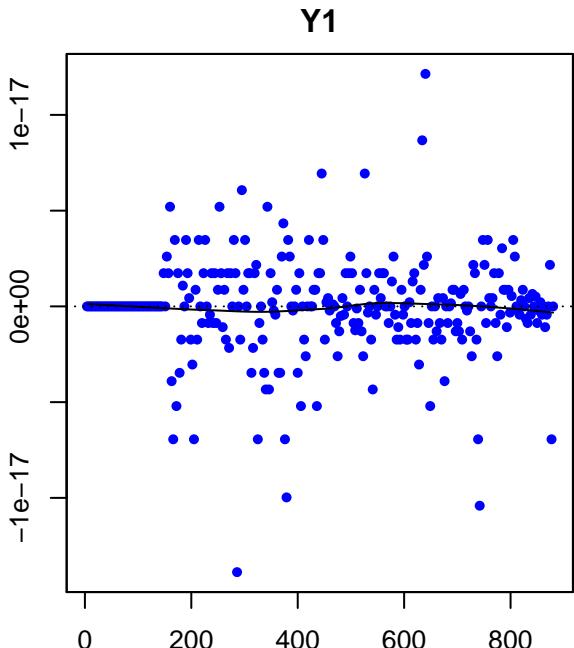




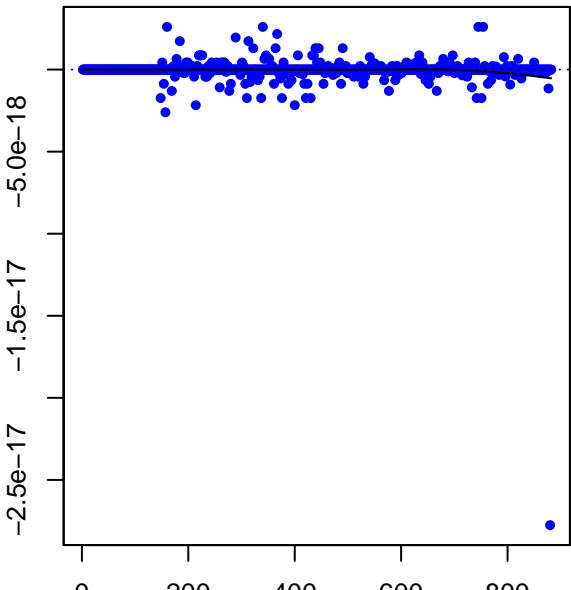
State X10**State X11****State X12****State X13****State X14****State X15****State X16**

Observation residuals, $y - E[y]$

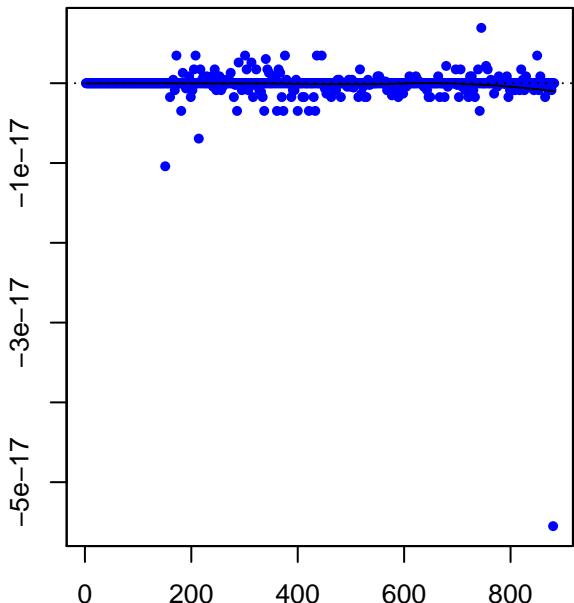
Y1



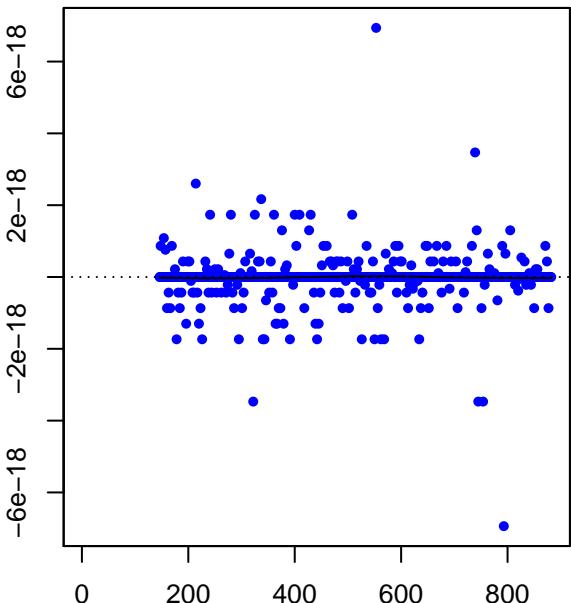
Y2



Y3

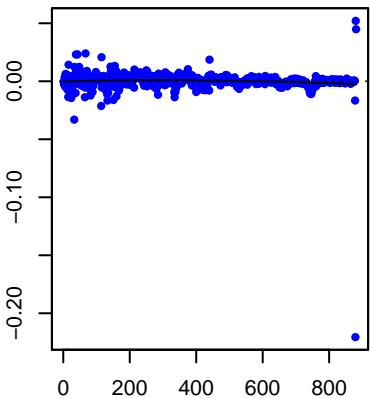


Y4

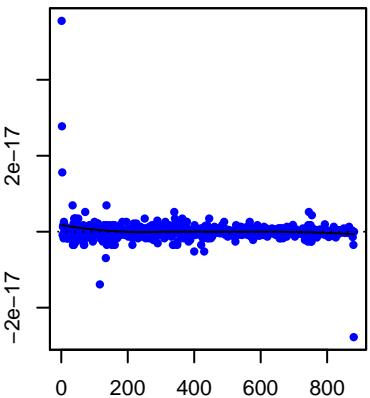


State residuals, $x_t| - E[x]$

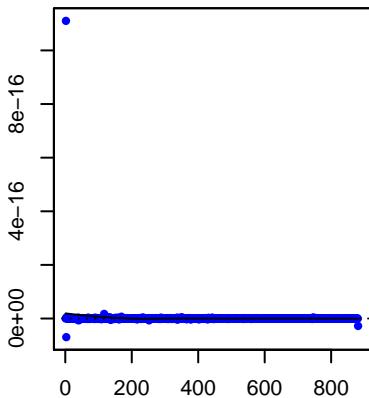
State X1



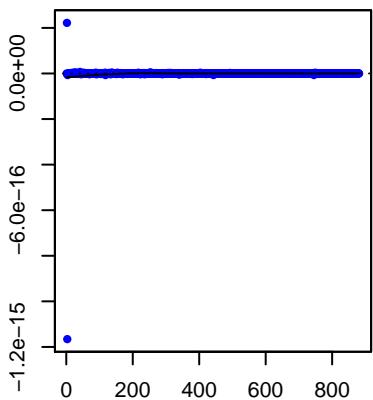
State X2



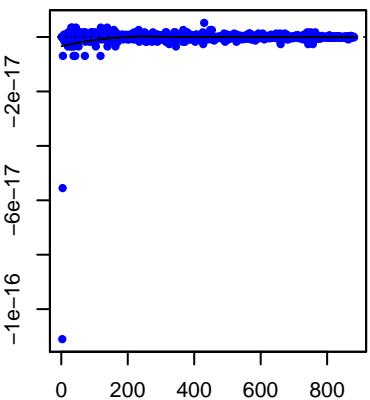
State X3



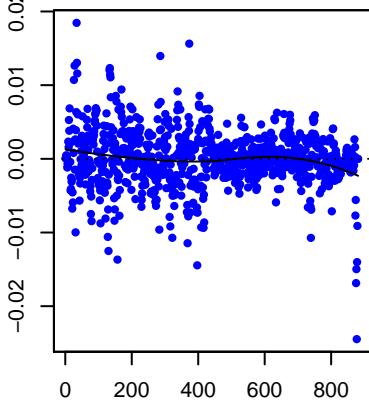
State X4



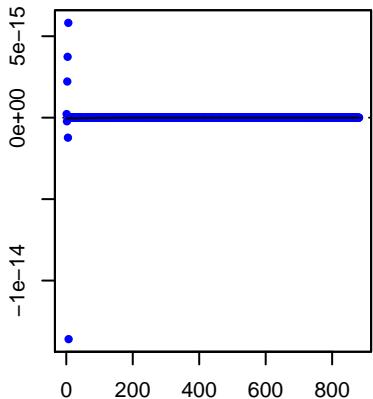
State X5



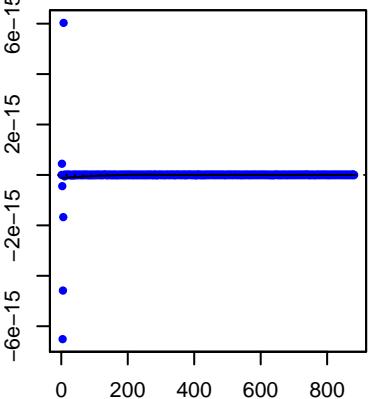
State X6



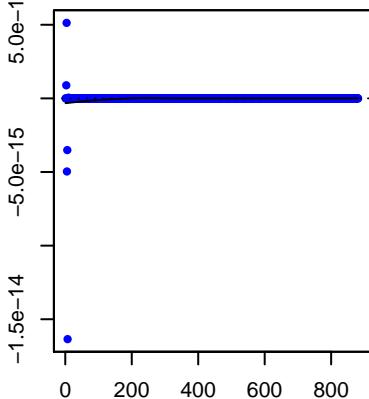
State X7

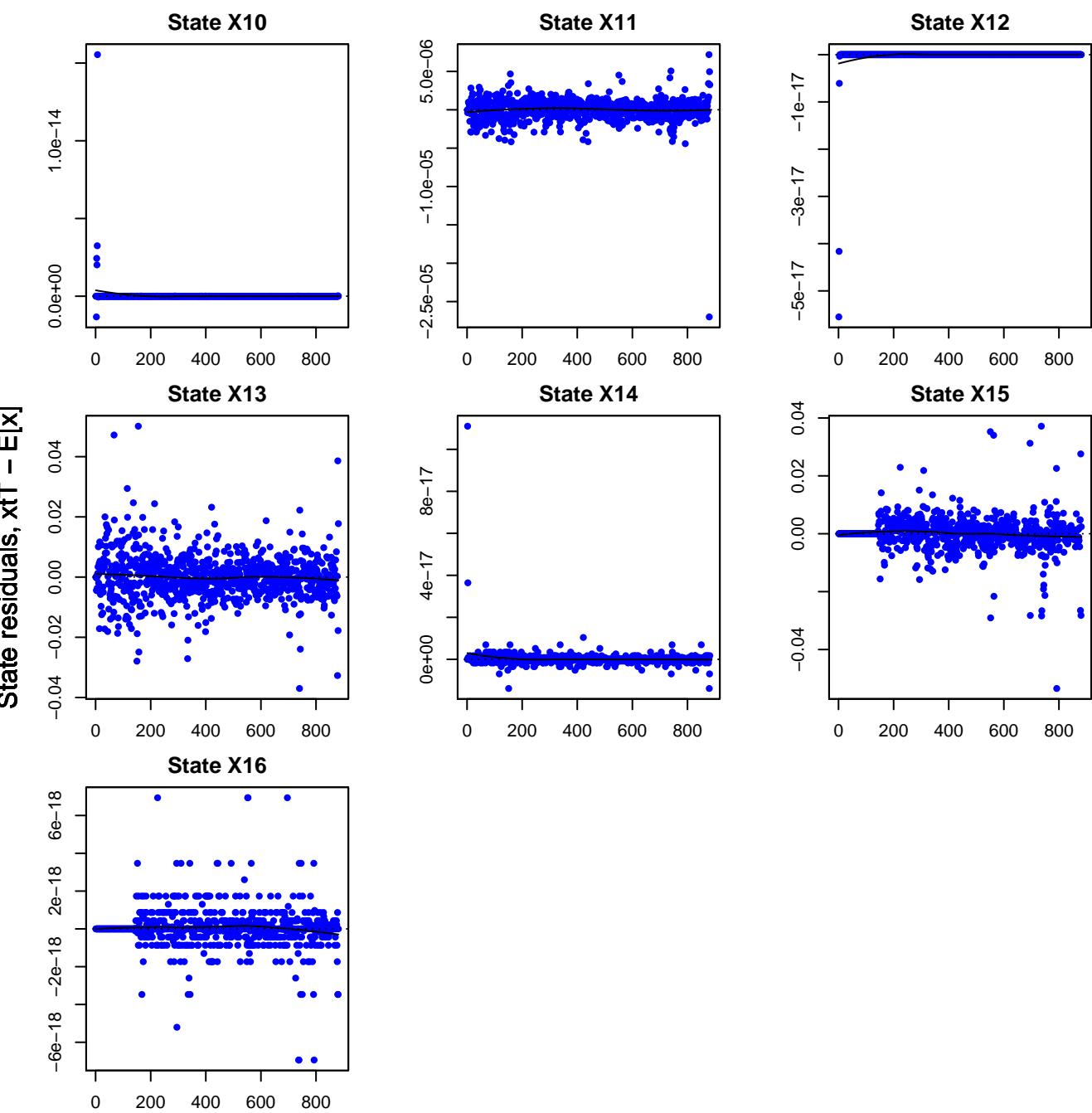


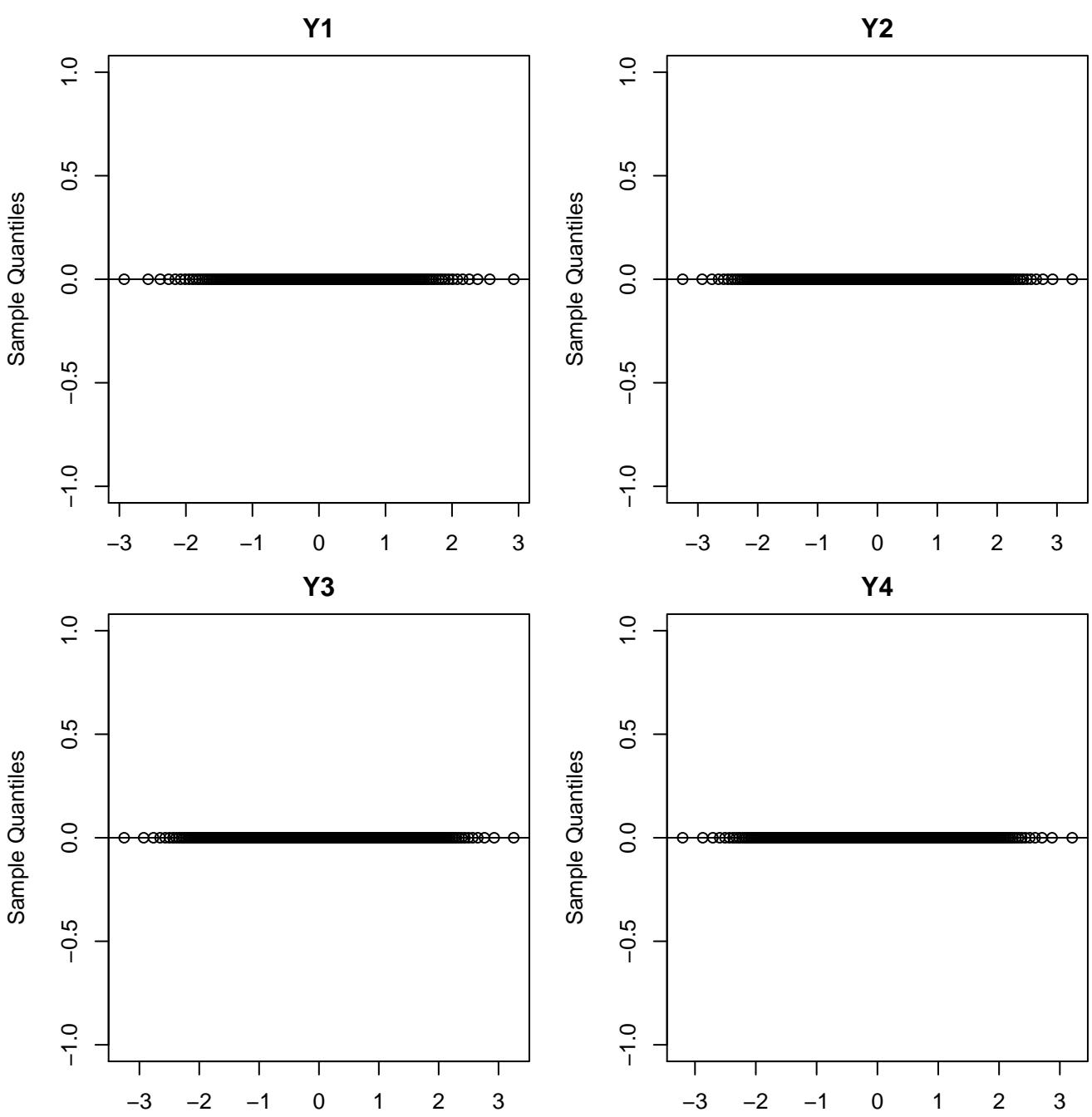
State X8

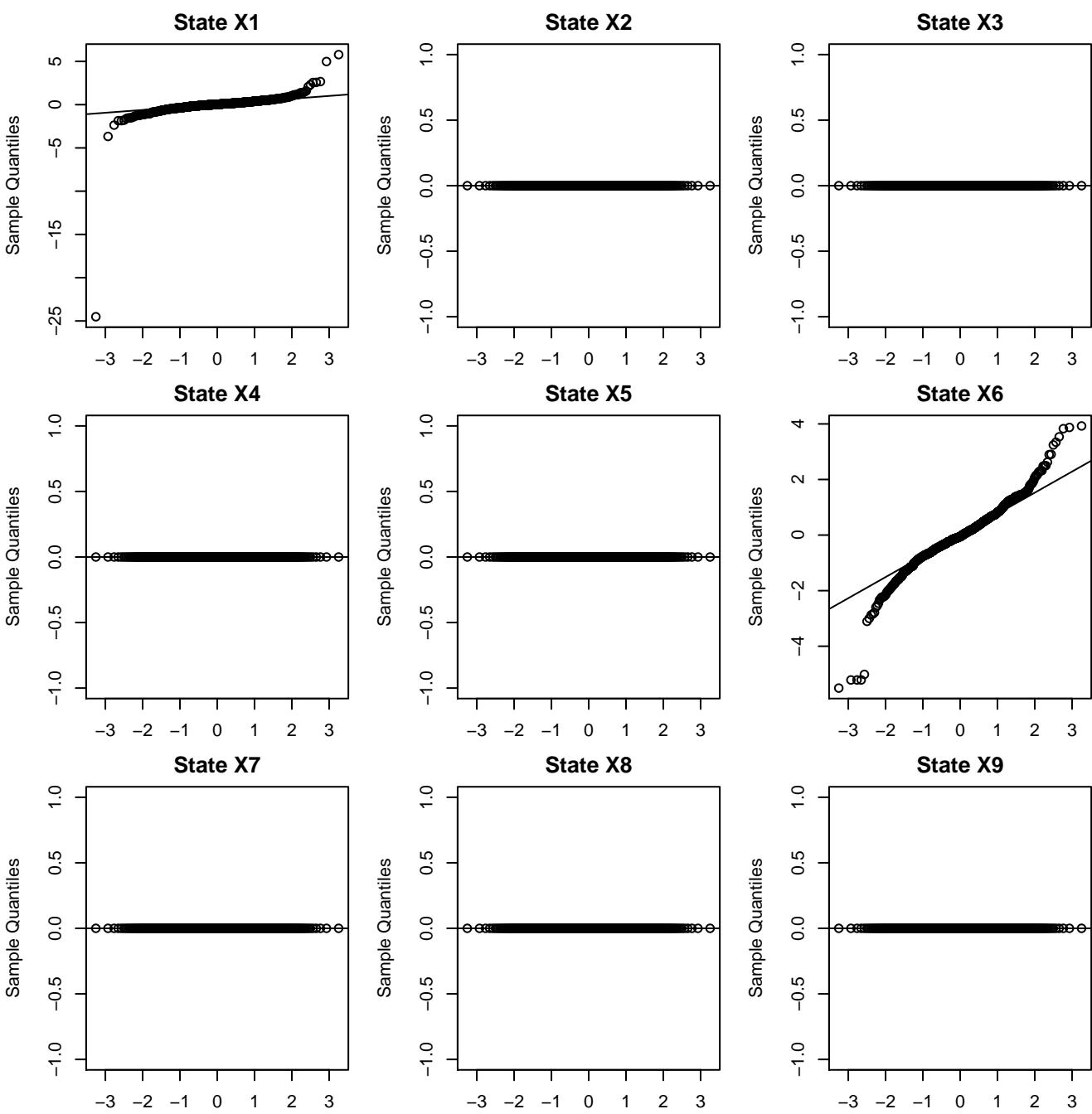


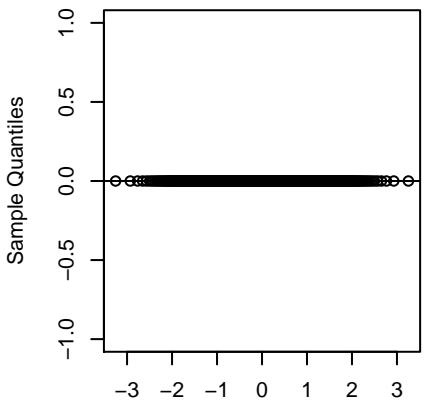
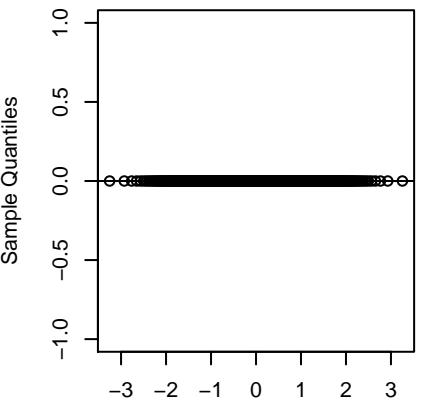
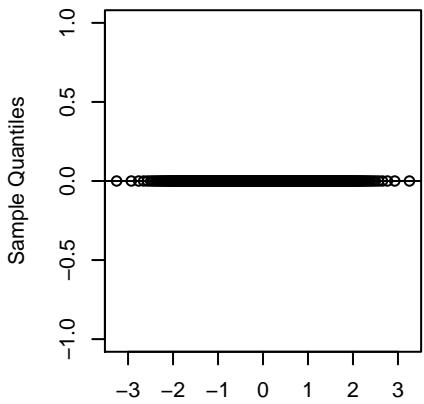
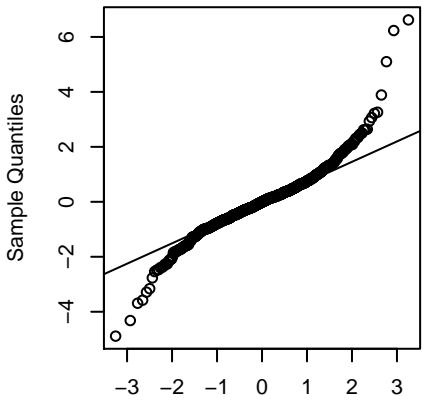
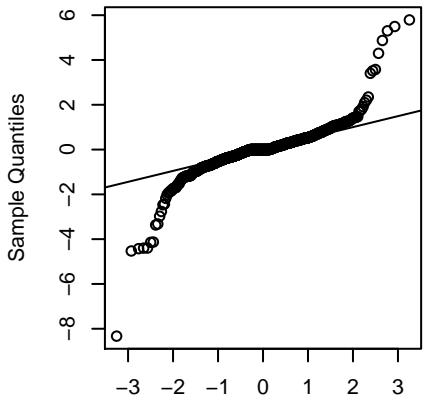
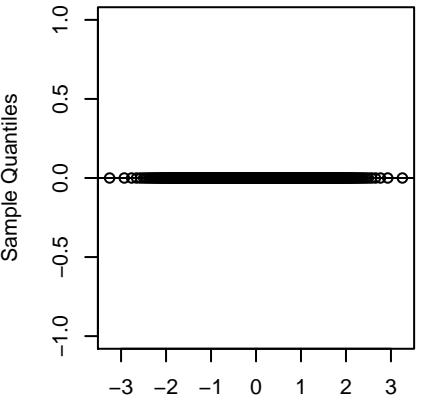
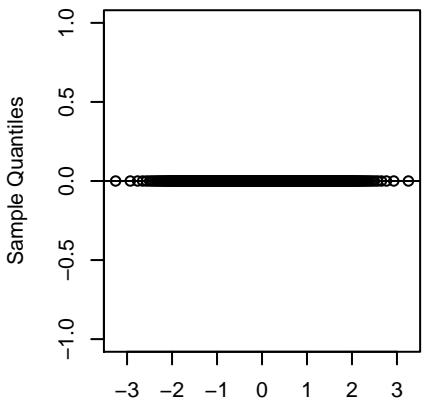
State X9



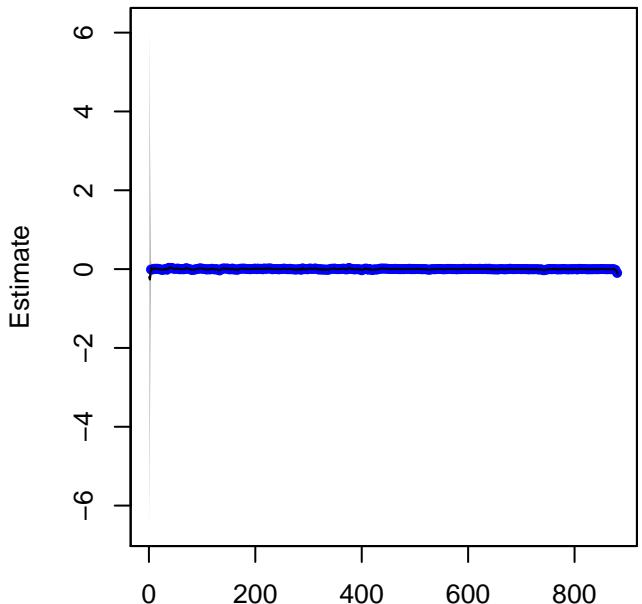




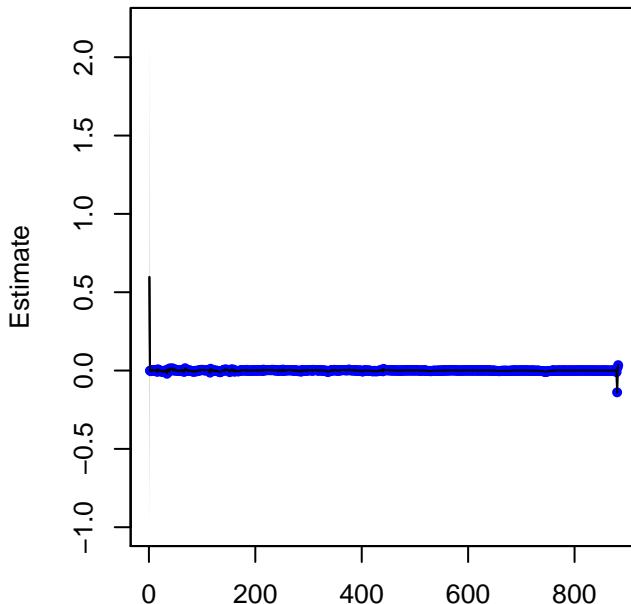


State X10**State X11****State X12****State X13****State X14****State X16**

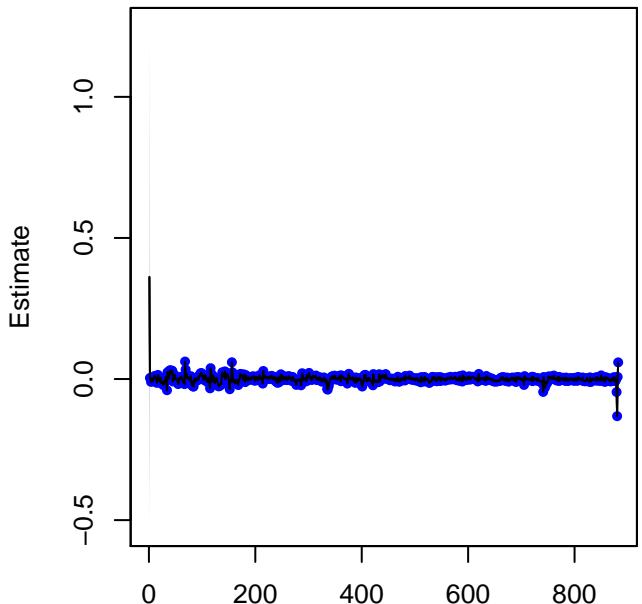
$Y1 + CI$



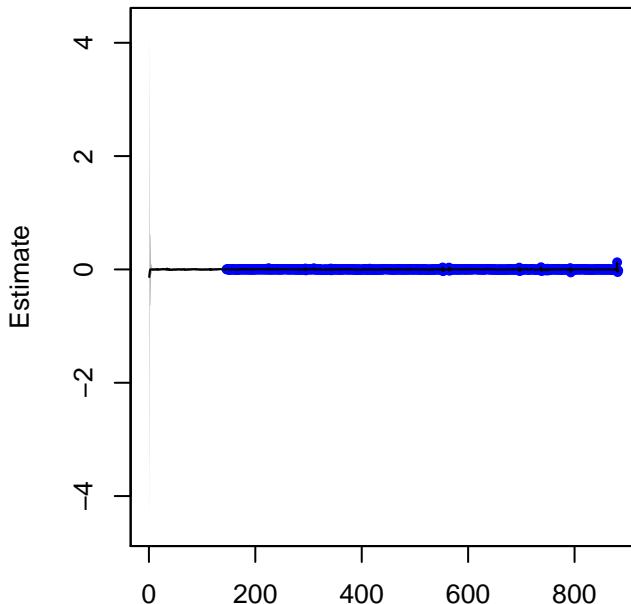
$Y2 + CI$

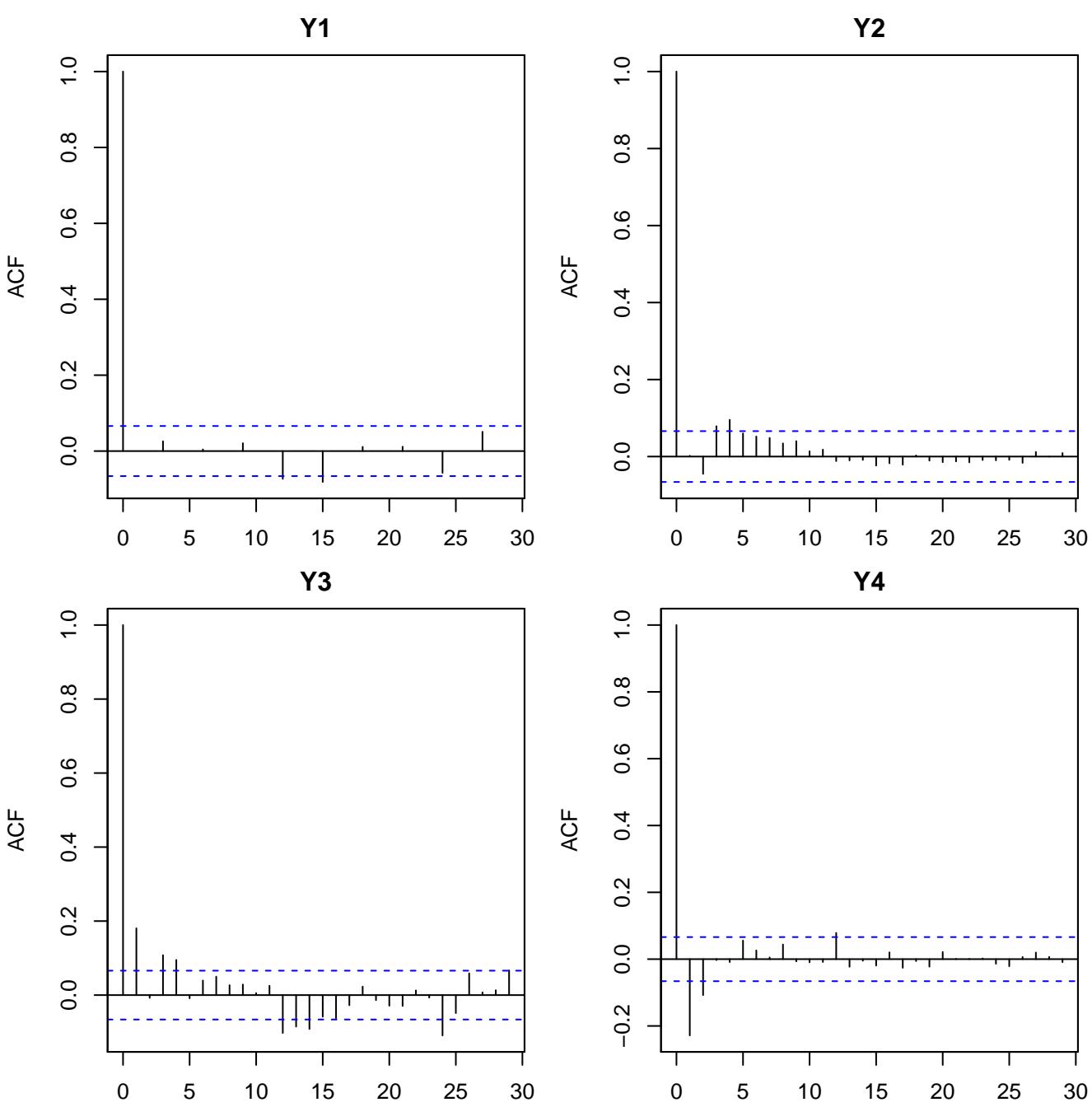


$Y3 + CI$

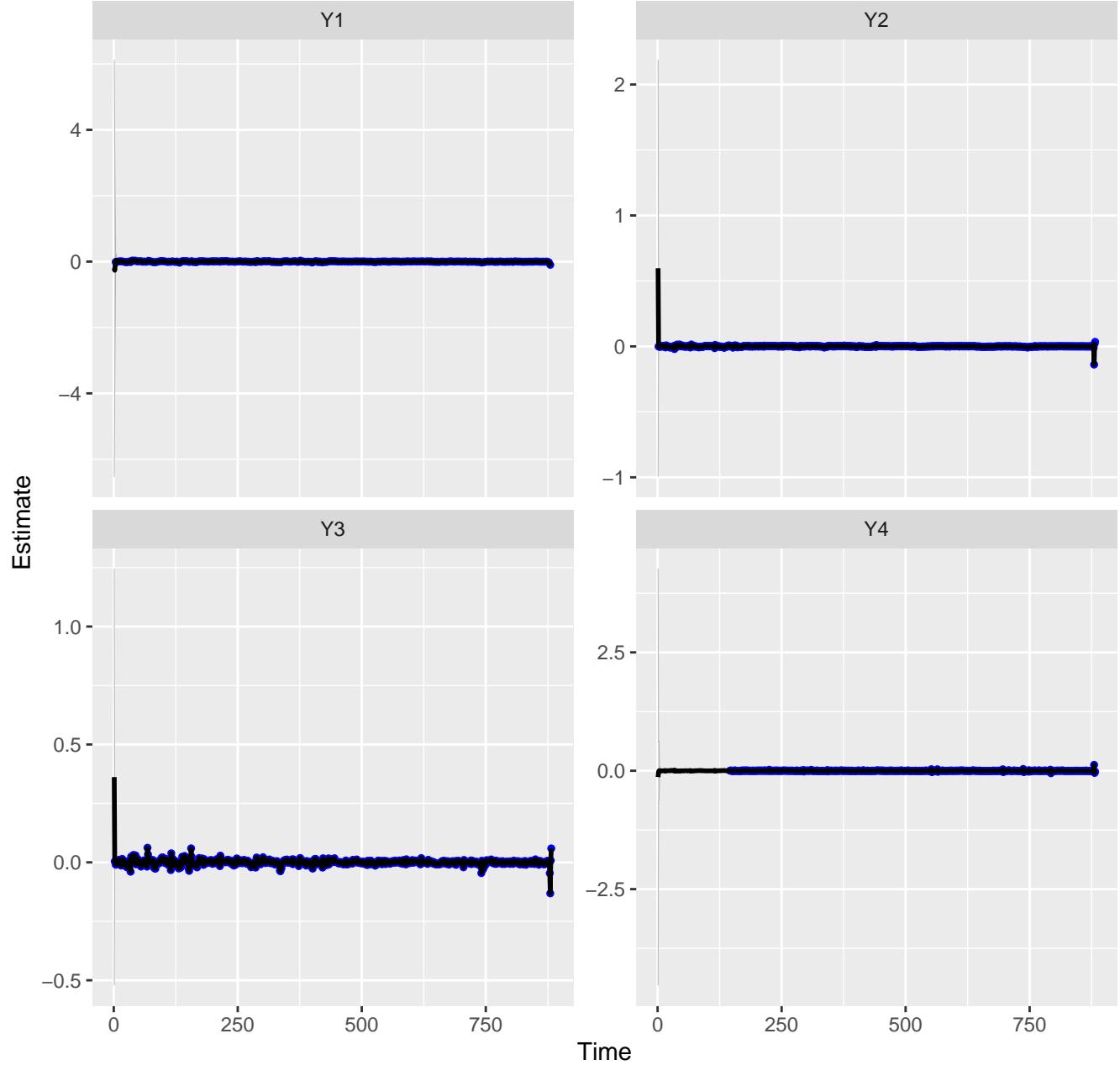


$Y4 + CI$

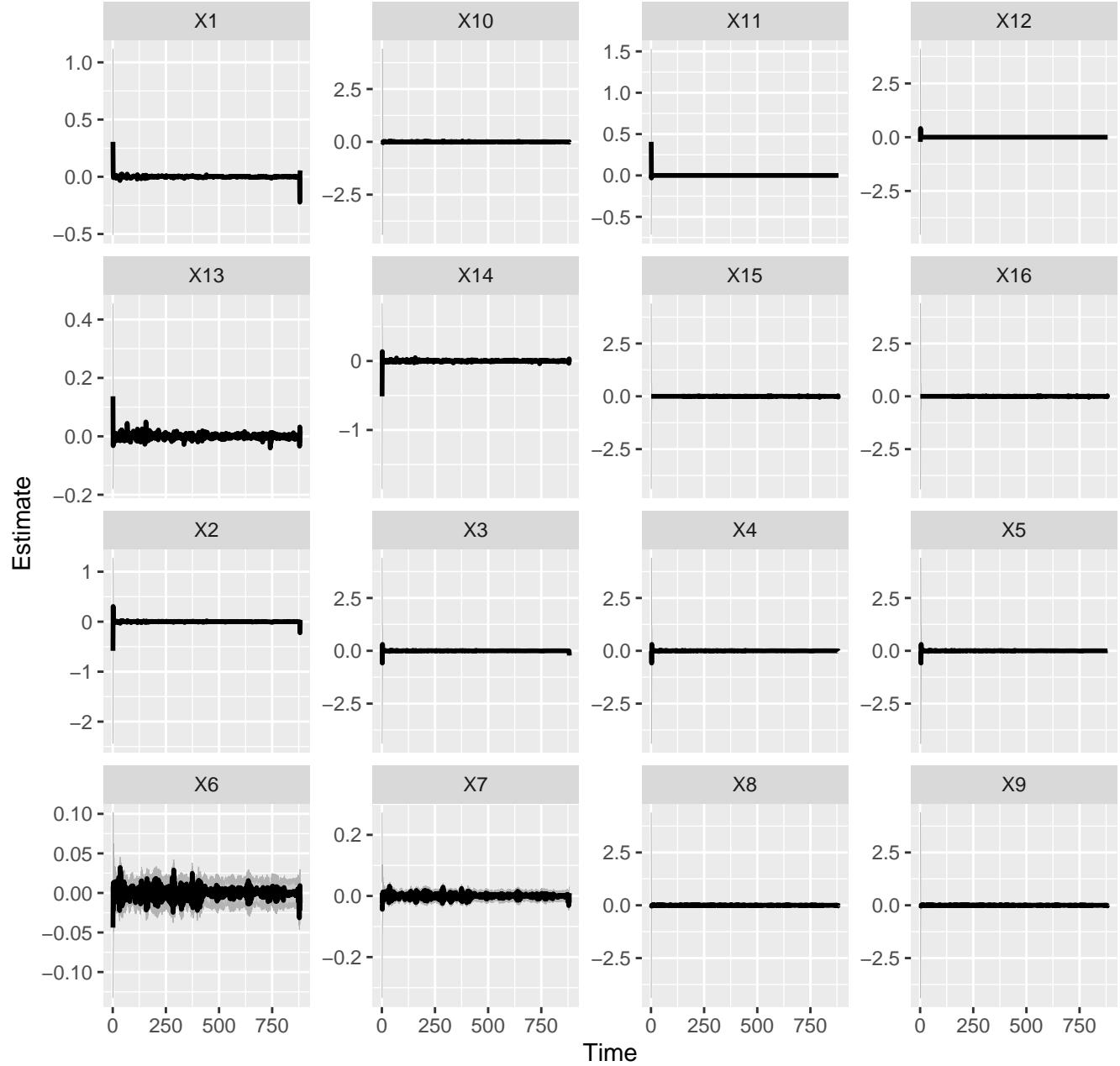




Model fitted Y + CI

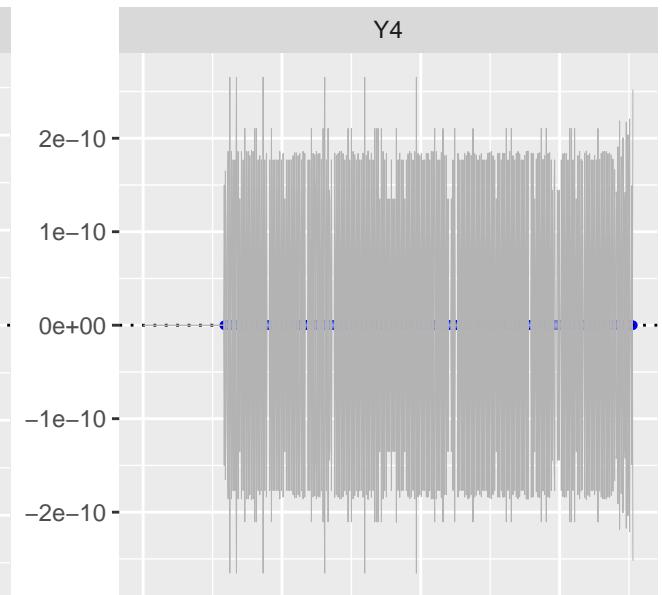
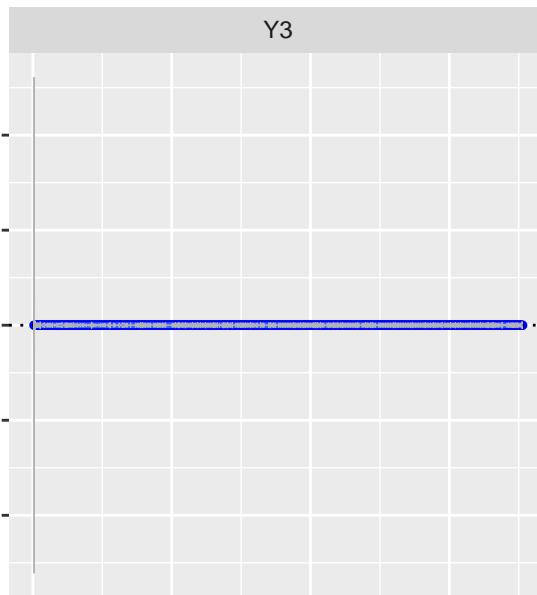
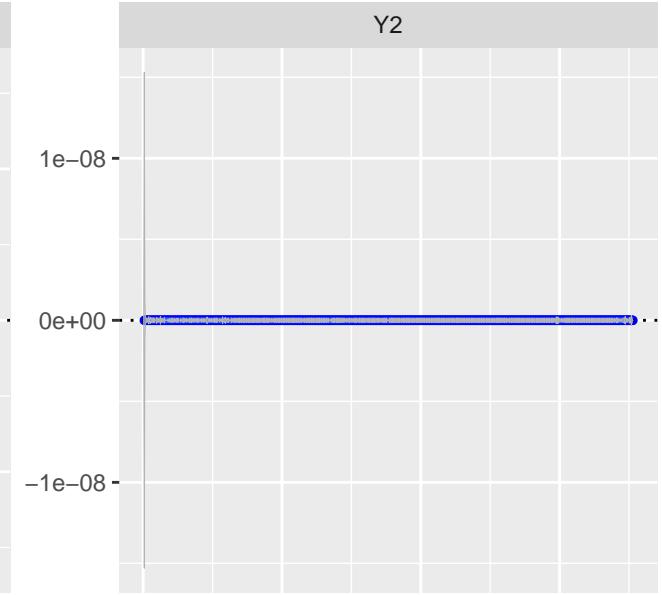
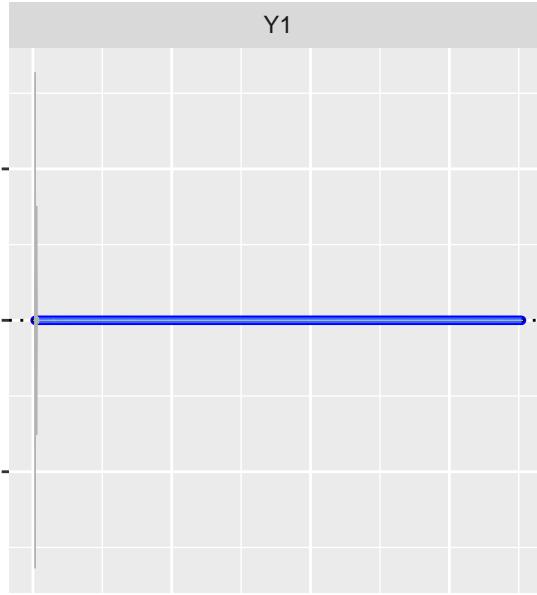


States



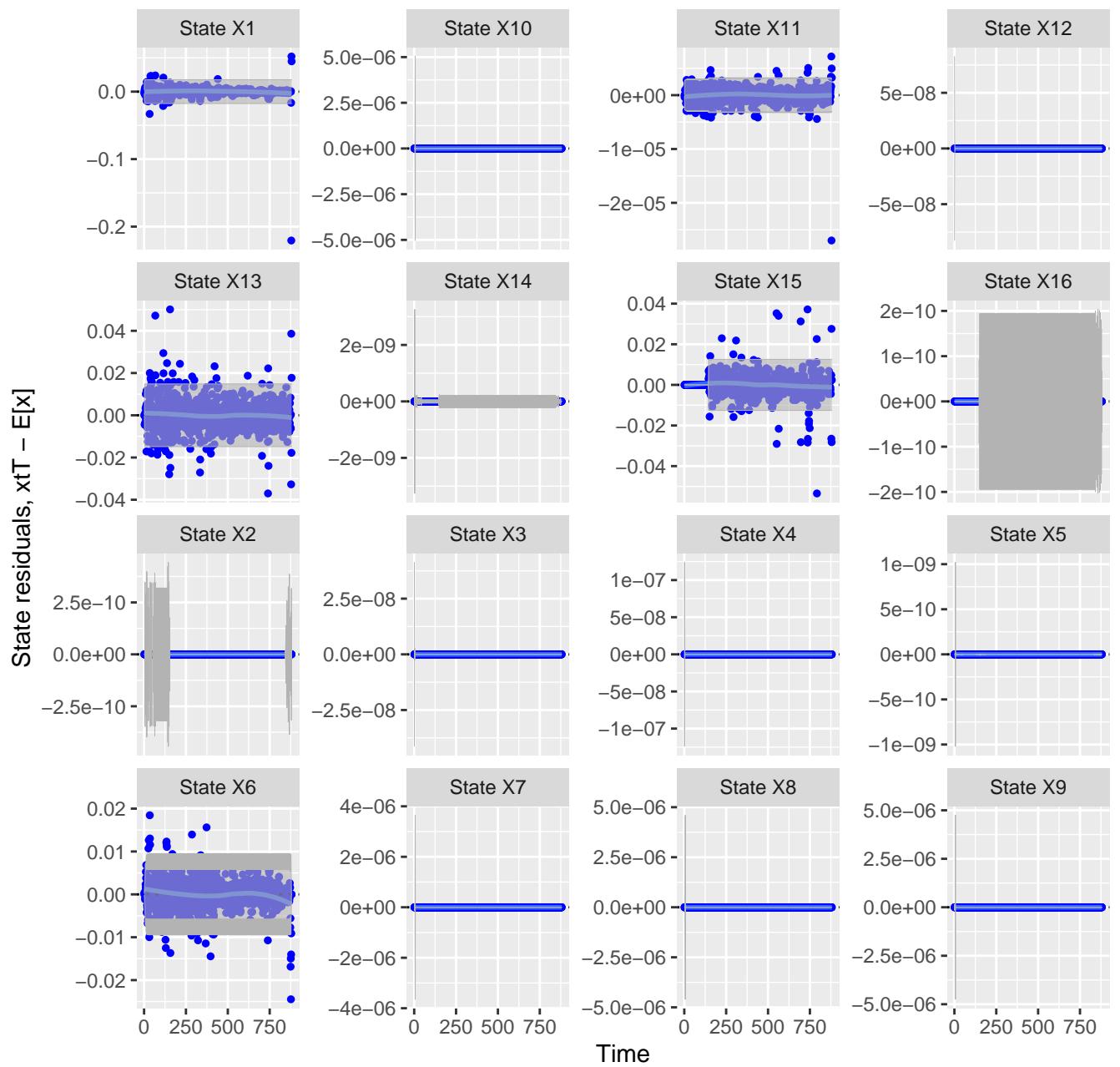
Model residuals

Observation residuals, $y - E[y]$

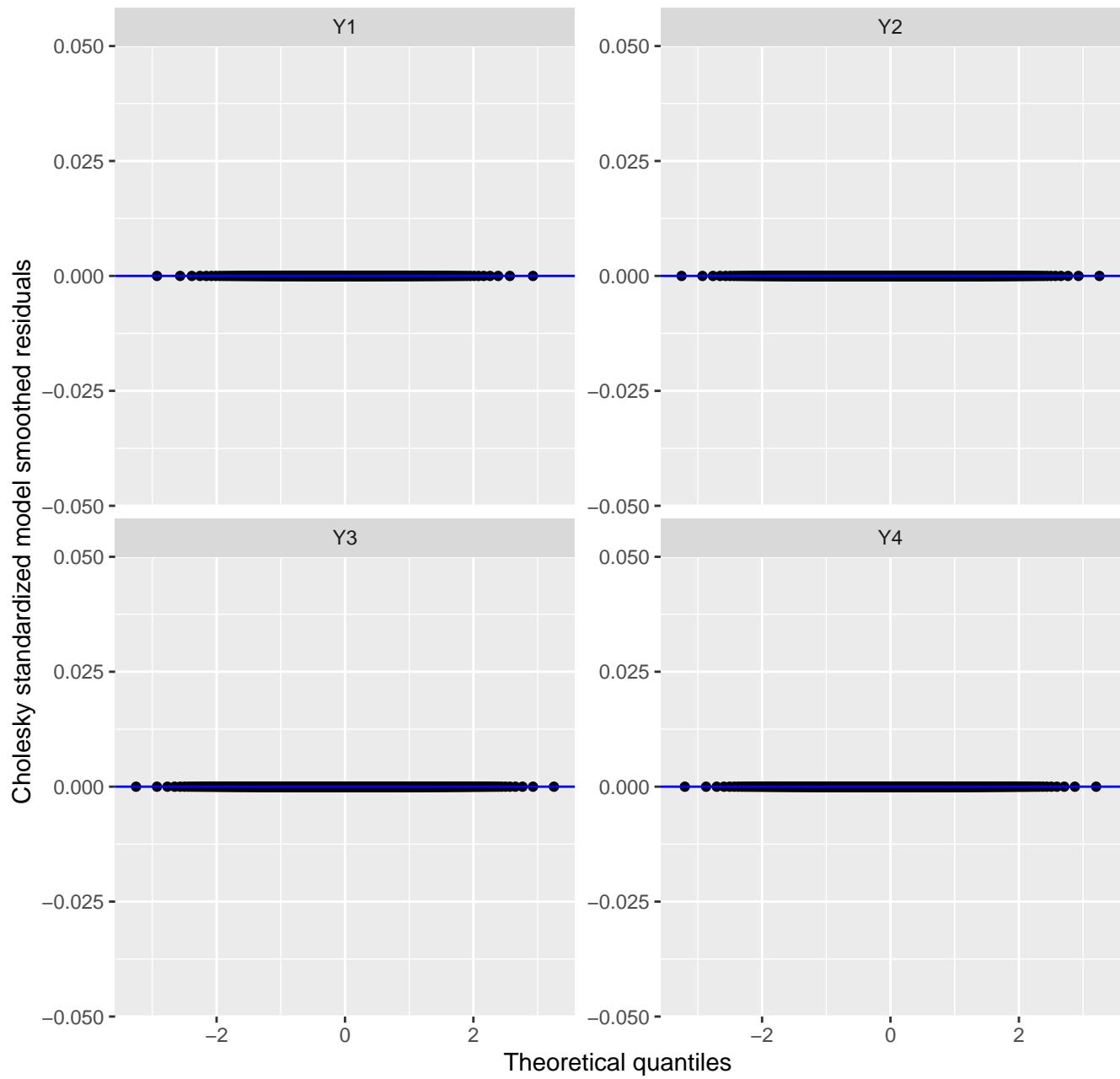


Time

State residuals

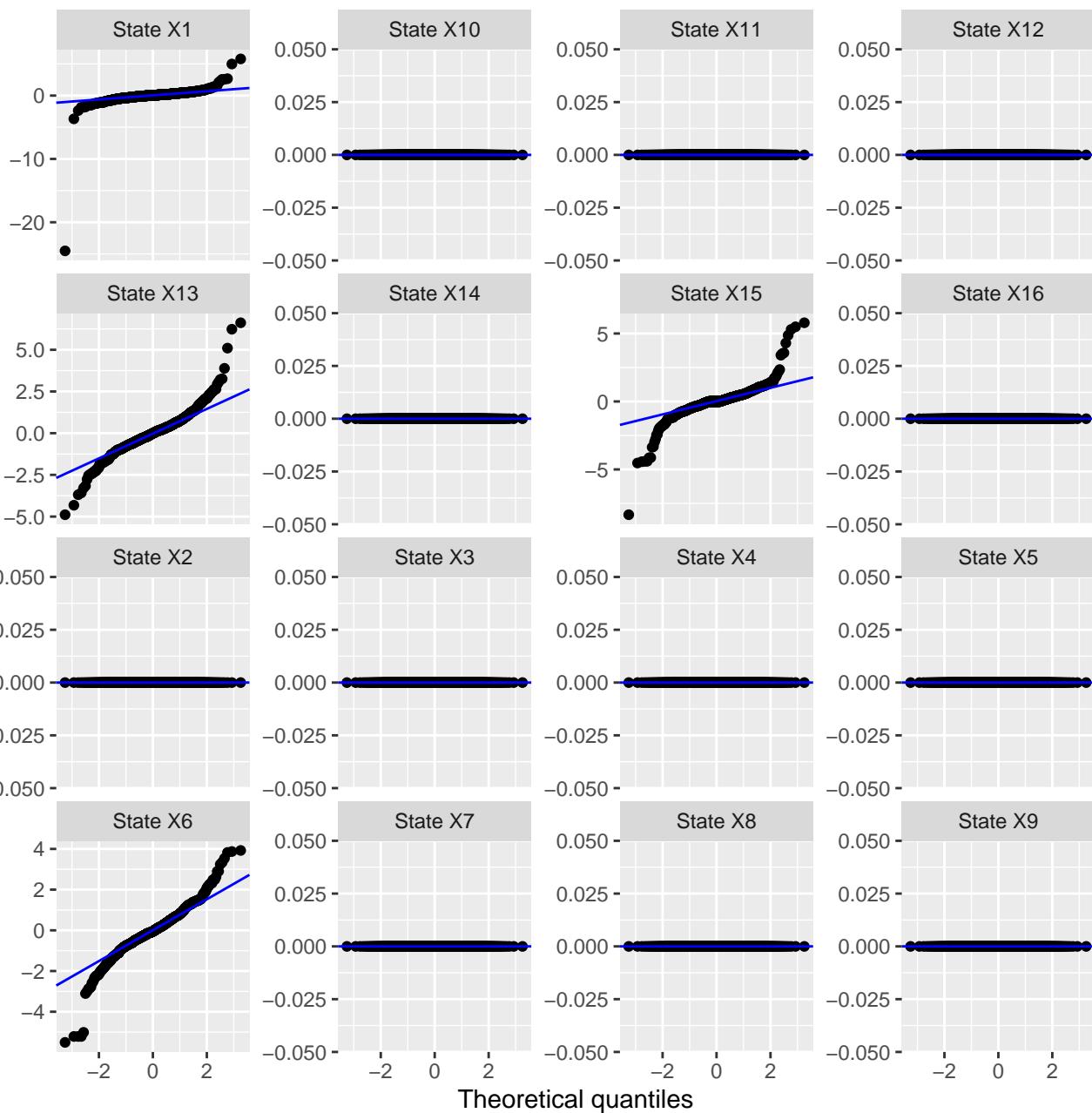


Model residuals normality test

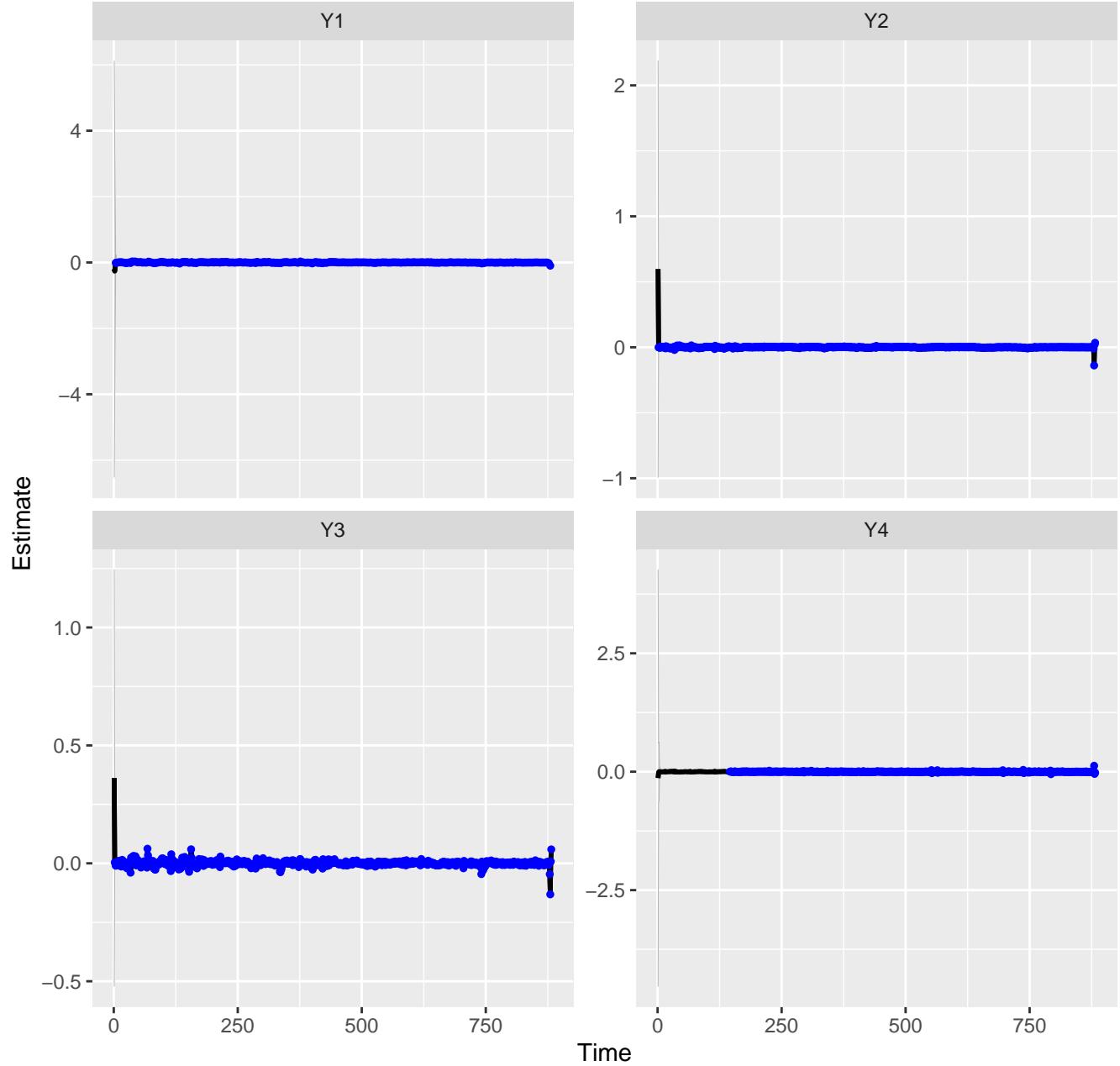


State residuals normality test

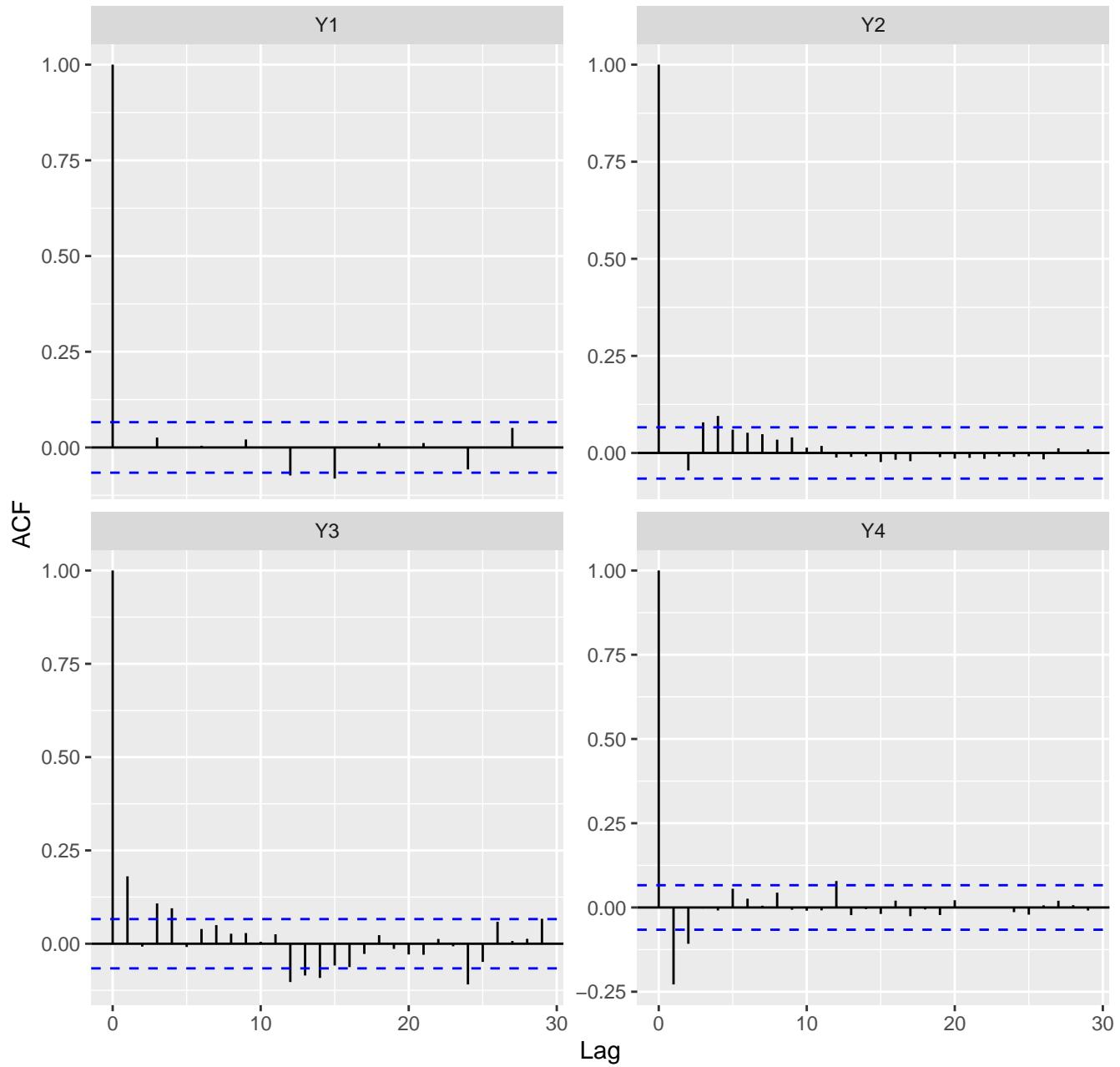
Cholesky standardized state smoothed residuals



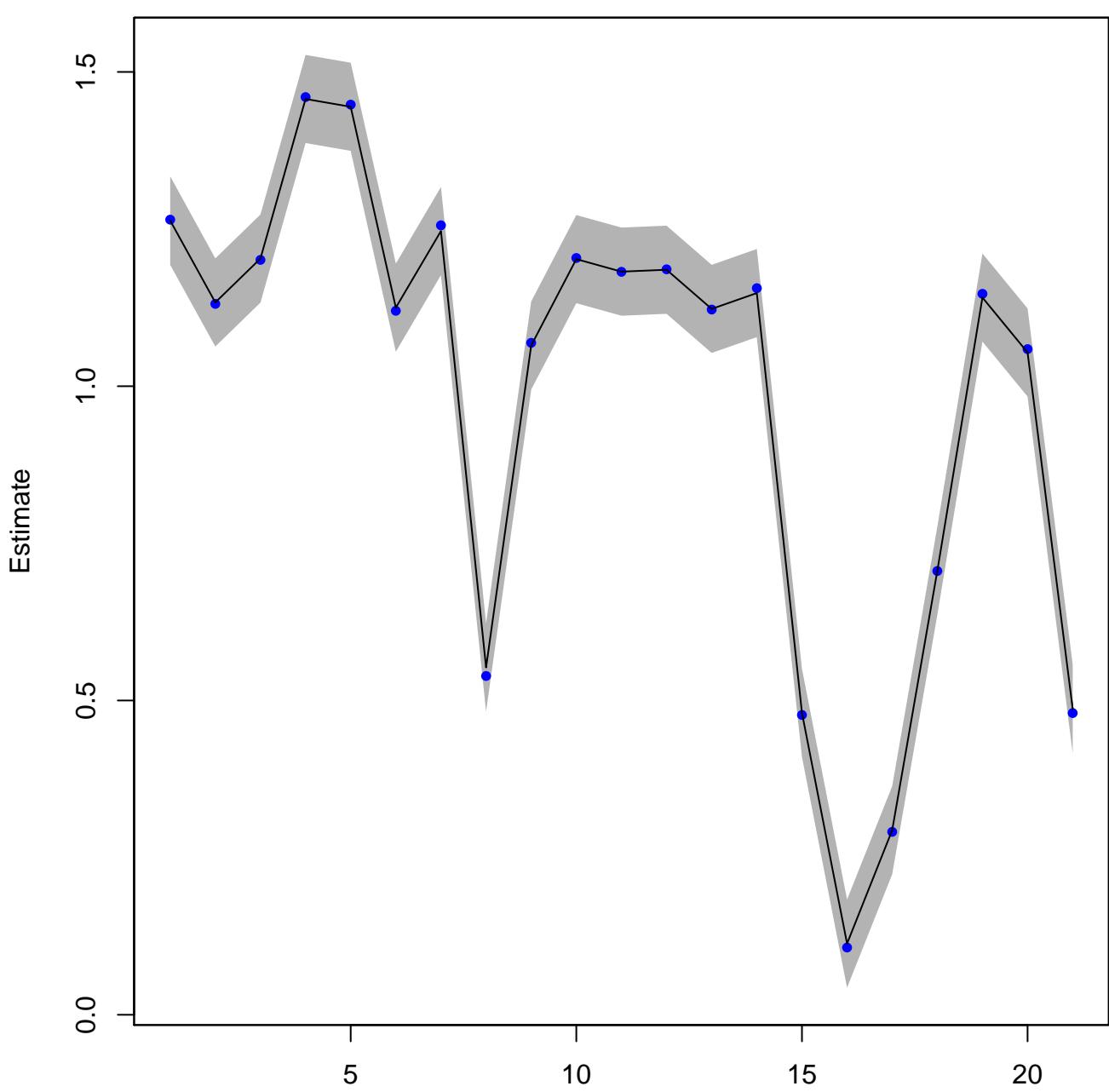
Expected value of Y conditioned on data



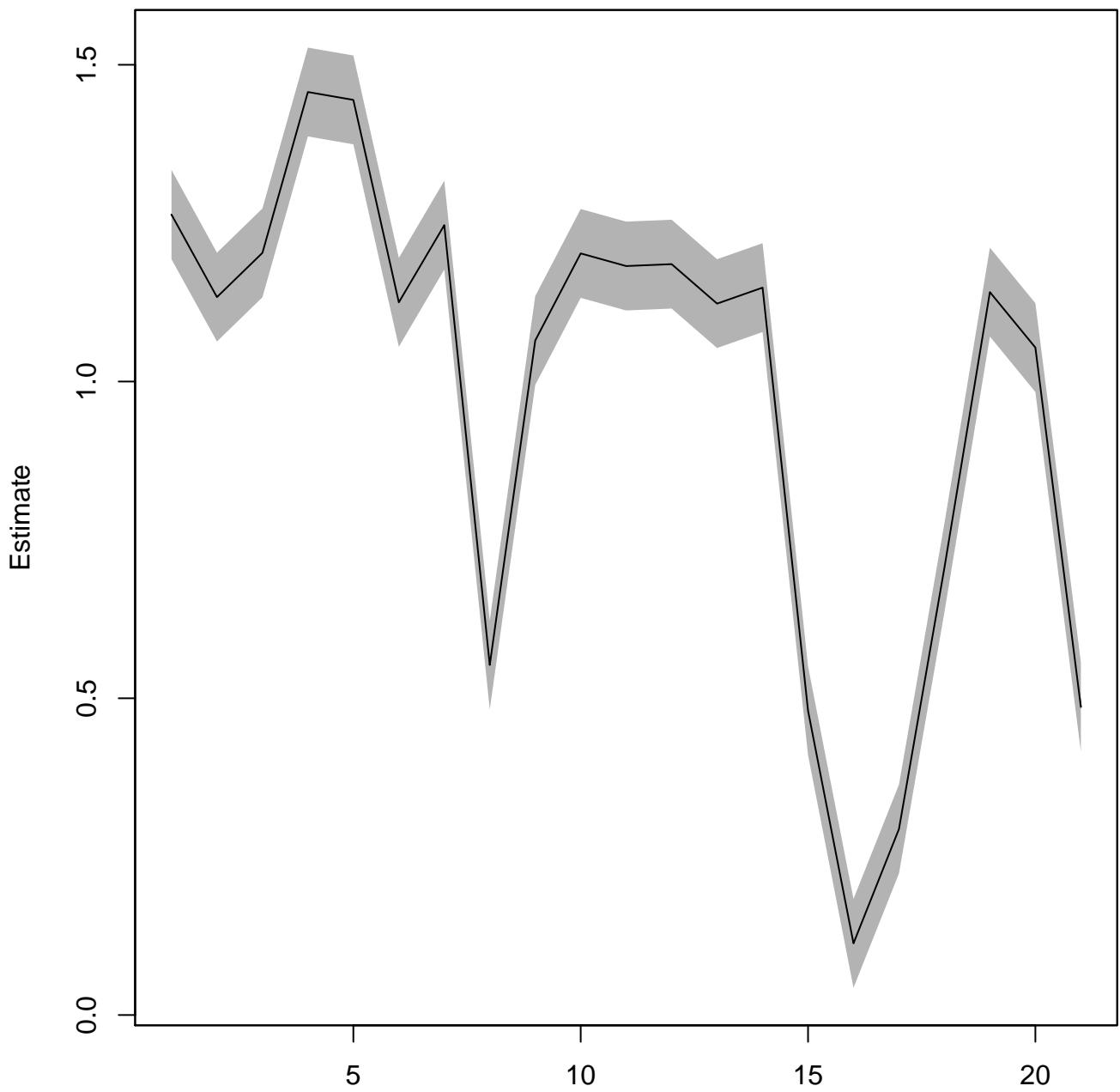
Model innovations residuals ACF

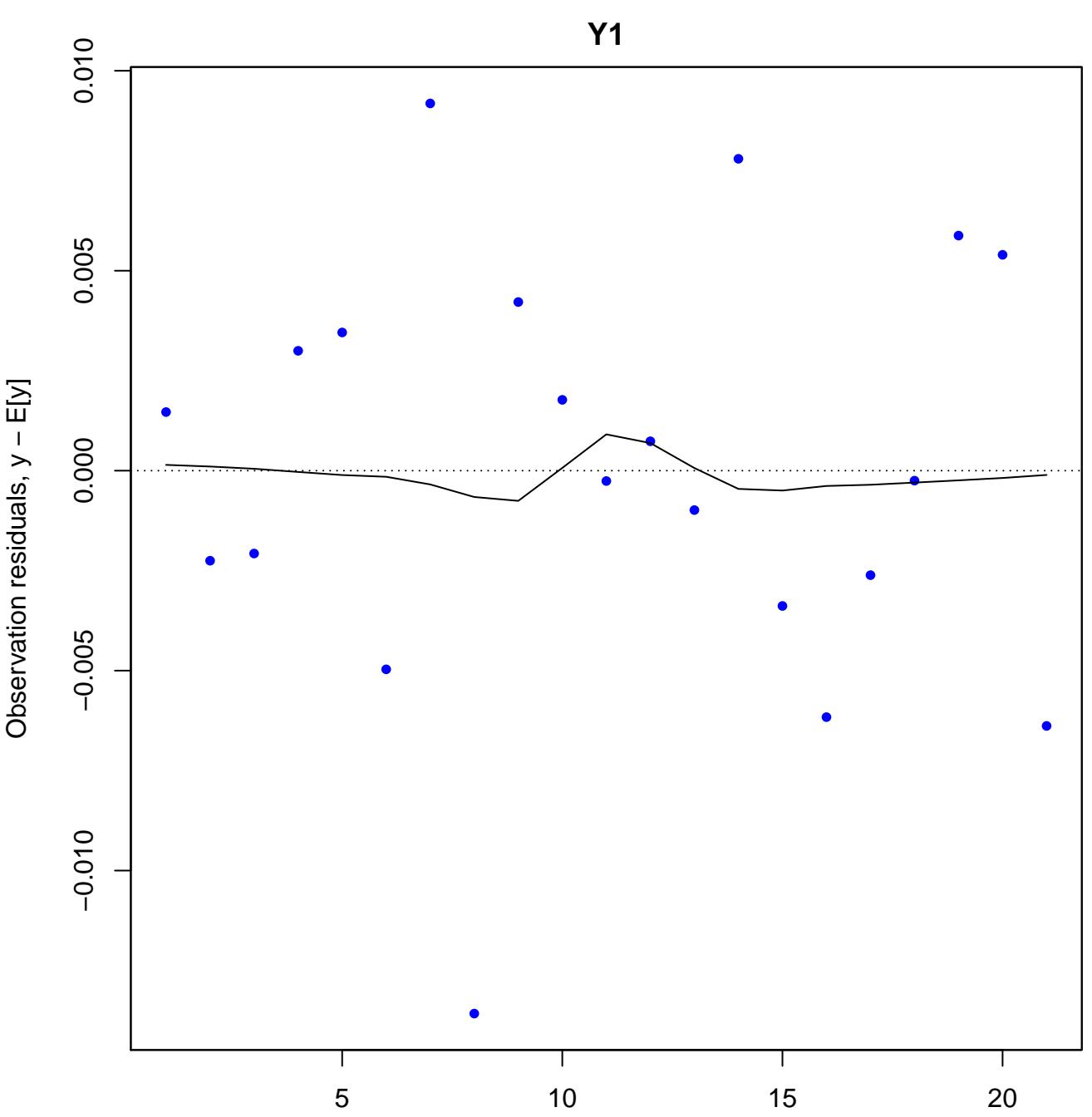


Y1 + CI

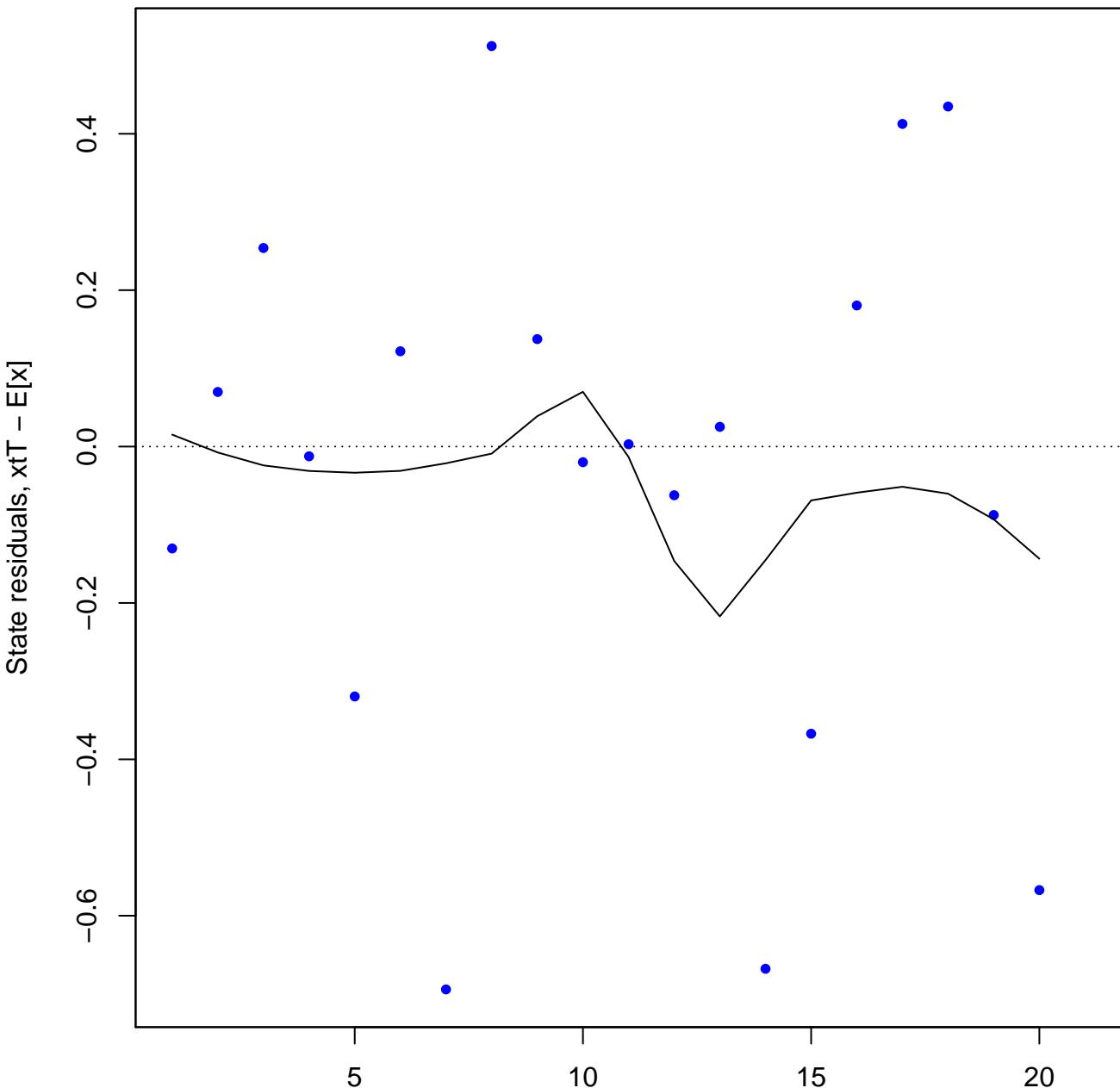


State X.Y1





State X.Y1



Y1

Sample Quantiles

1

0

-1

-2

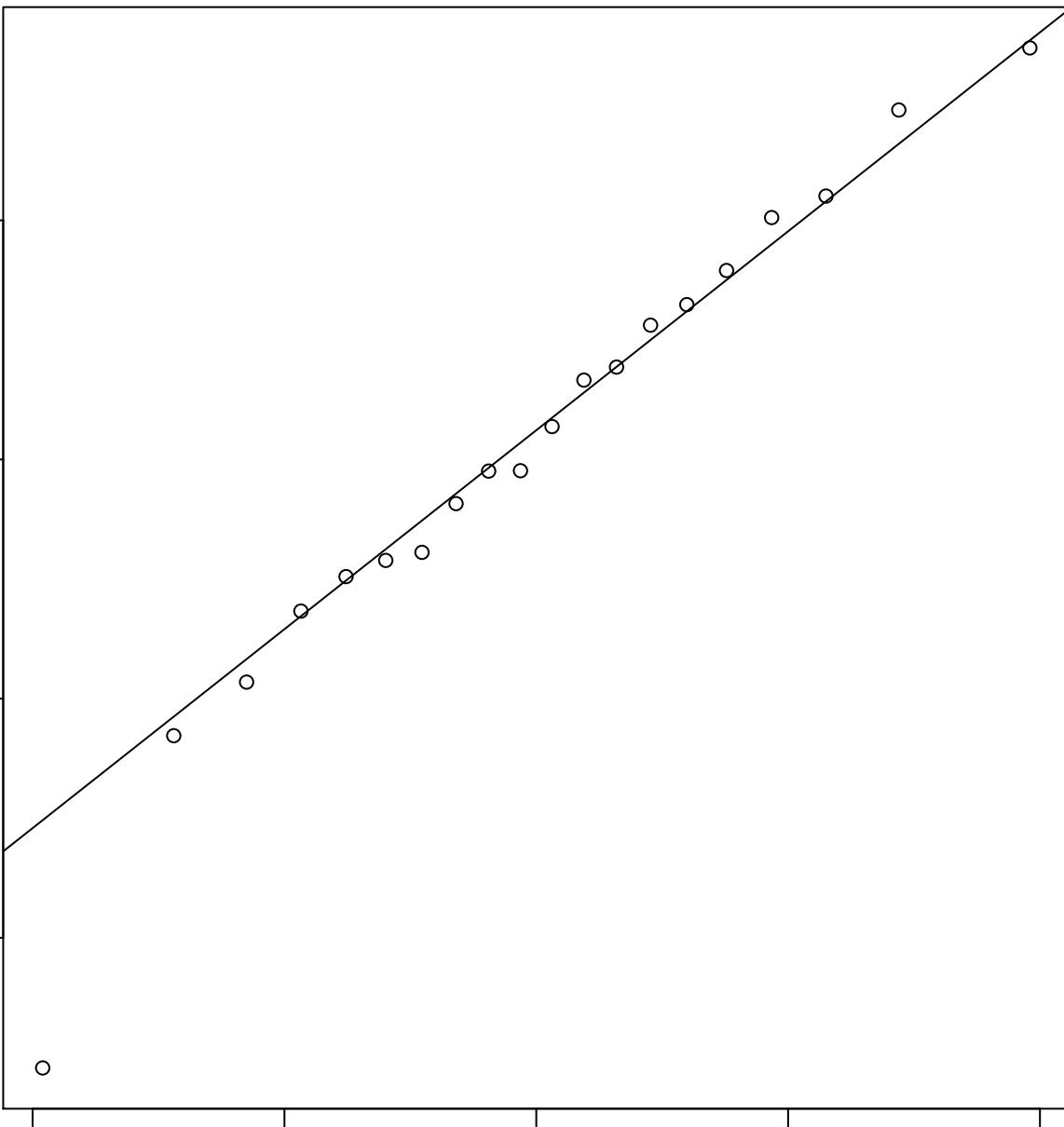
-2

-1

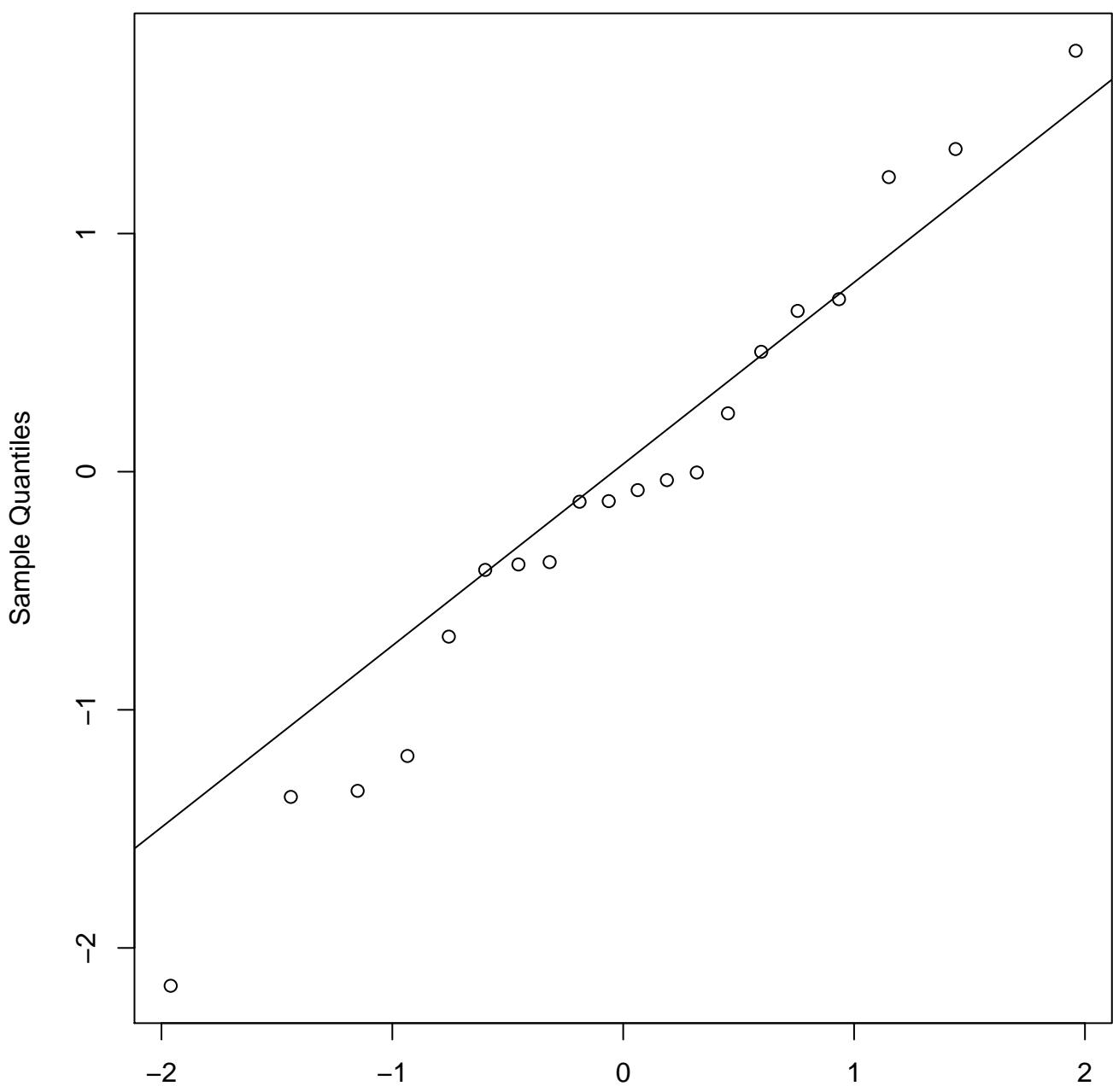
0

1

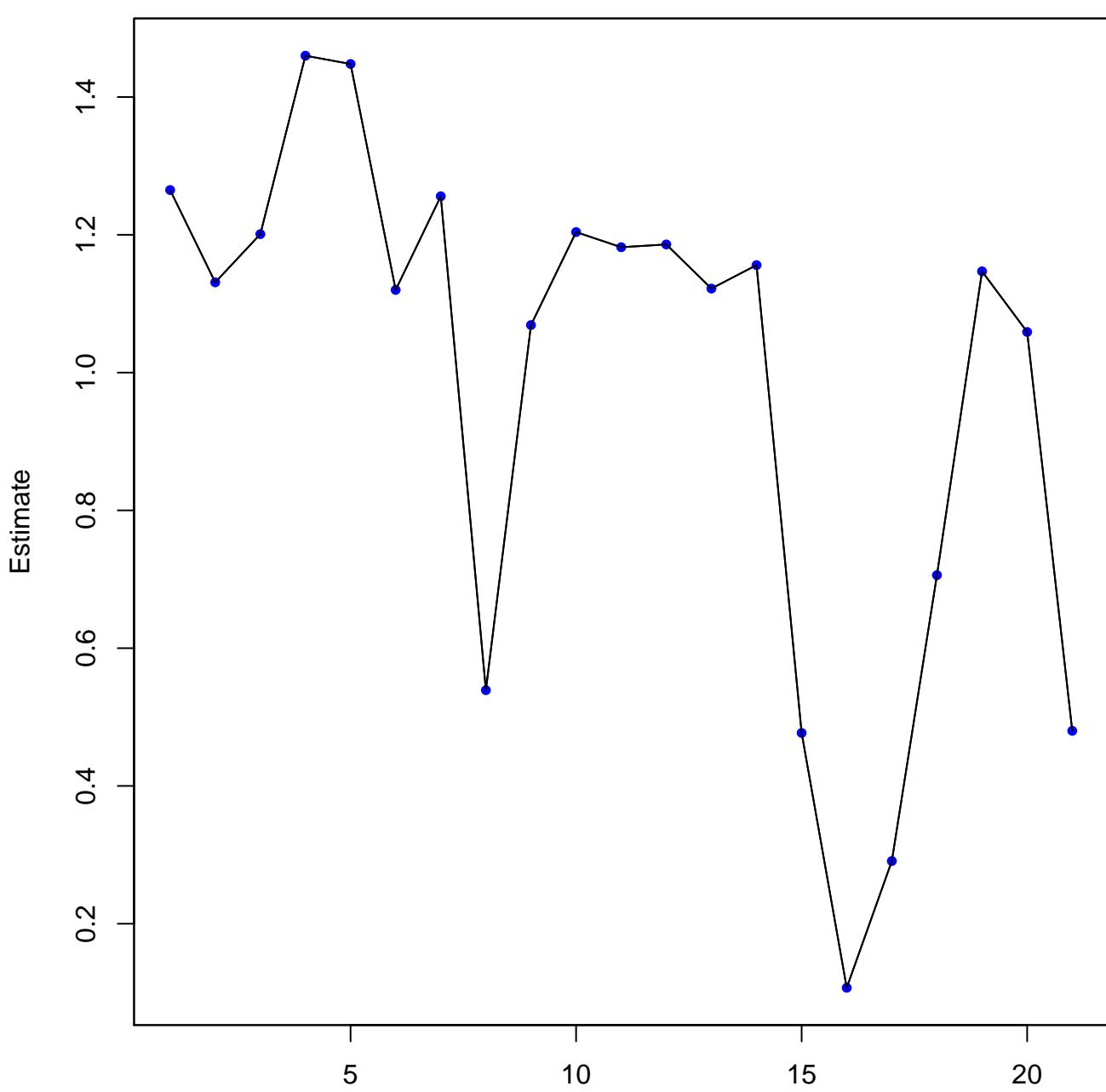
2



State X.Y1

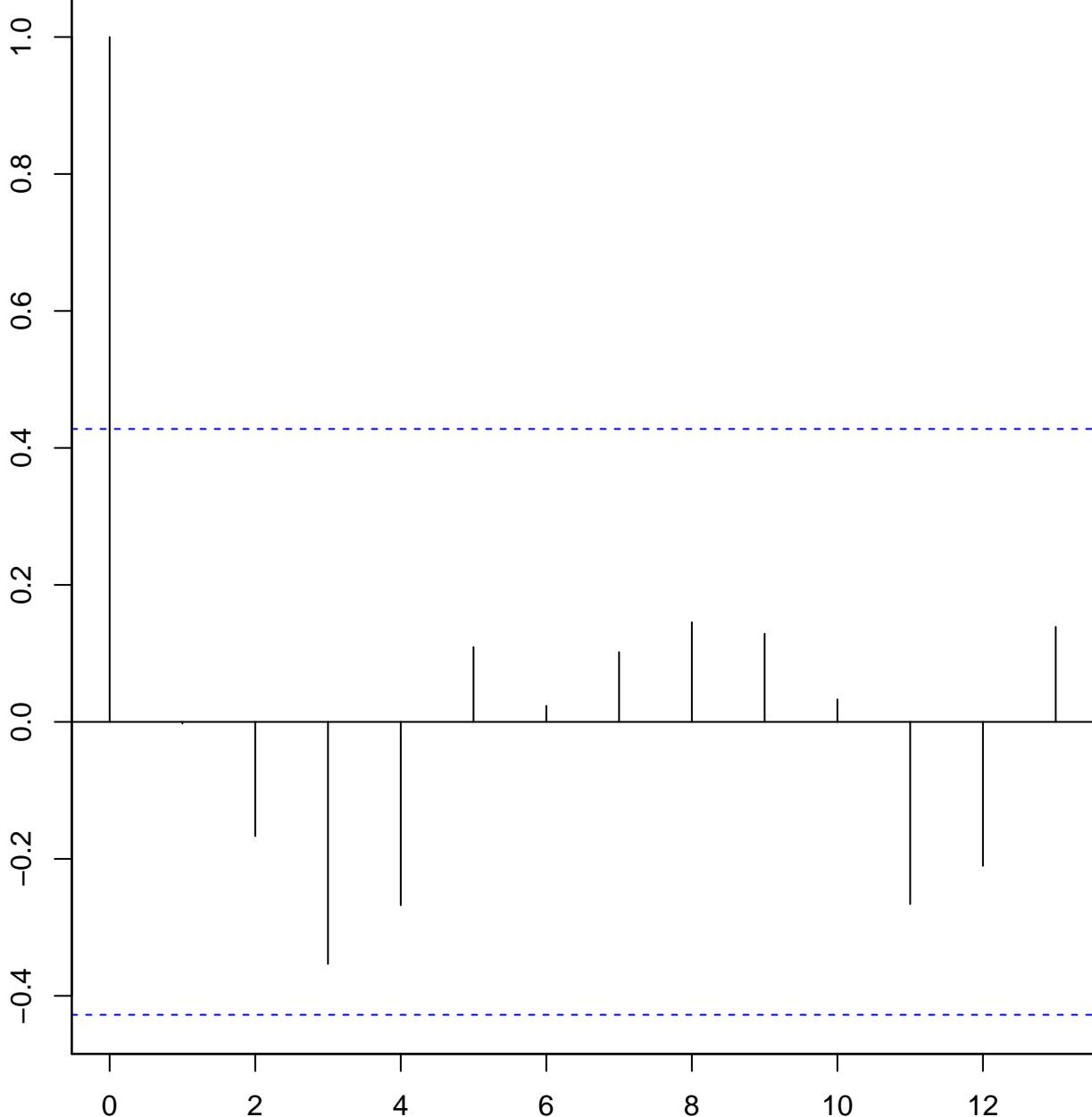


Y1 + CI

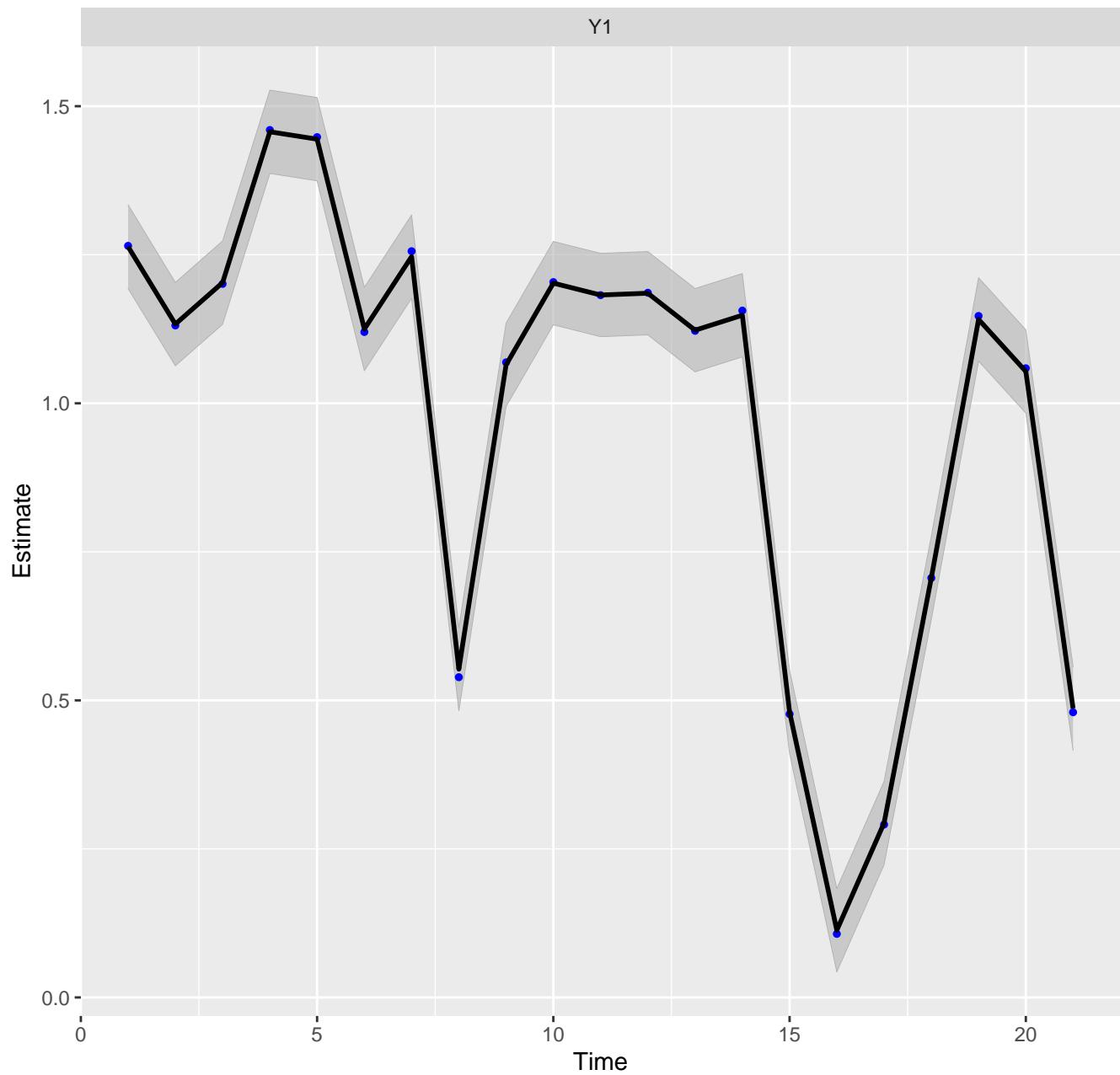


Y1

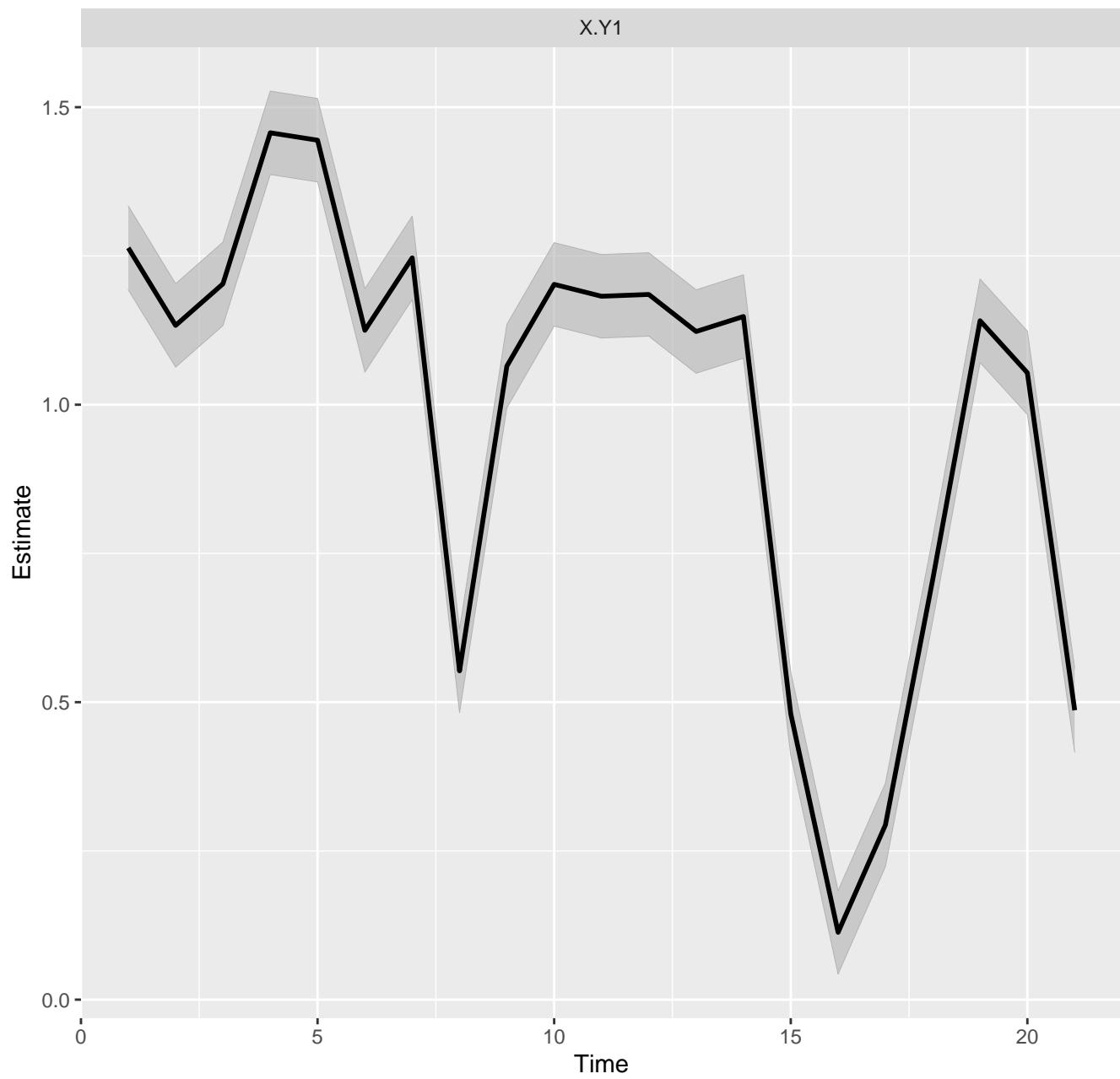
ACF



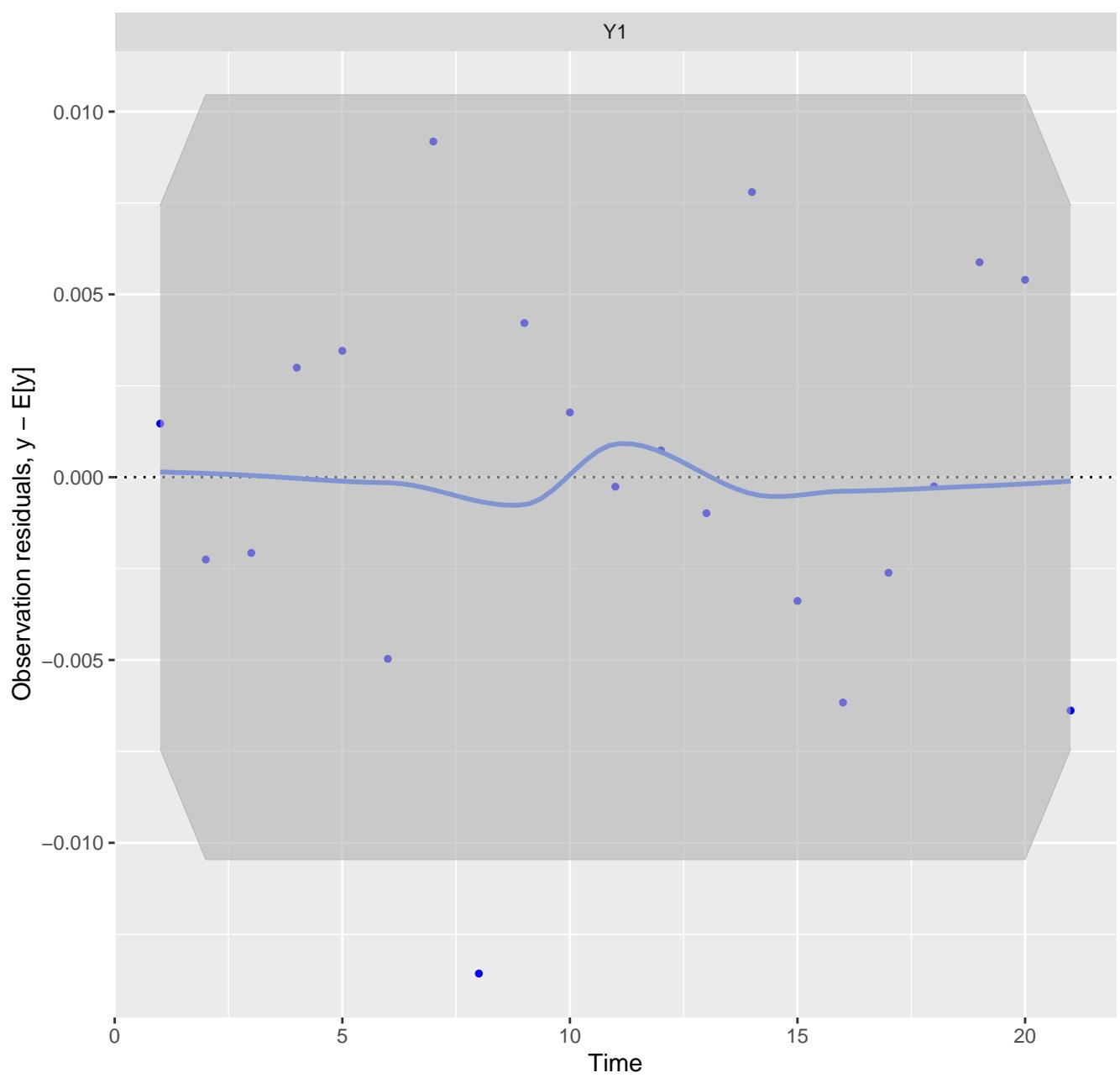
Model fitted Y + CI



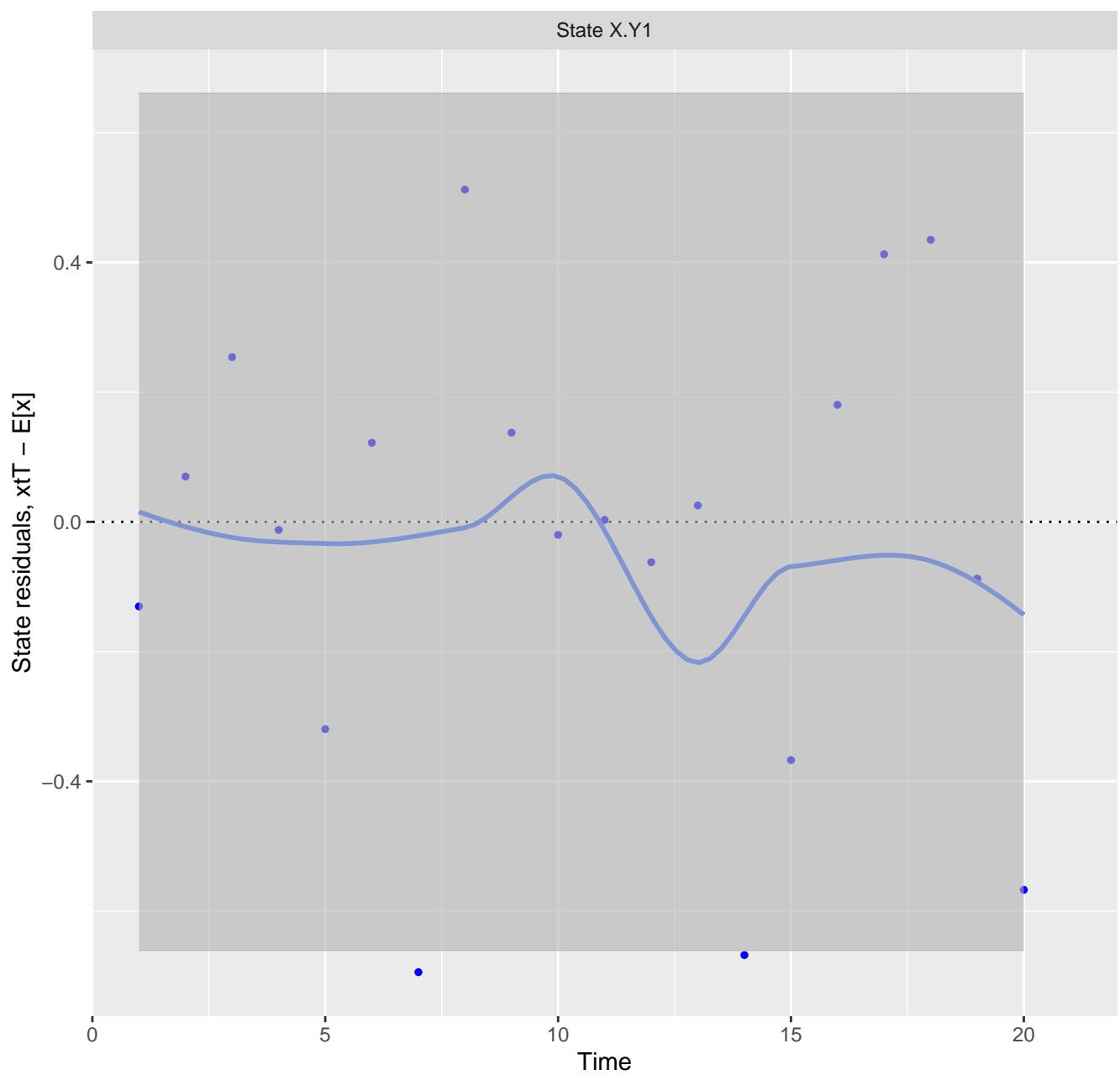
States



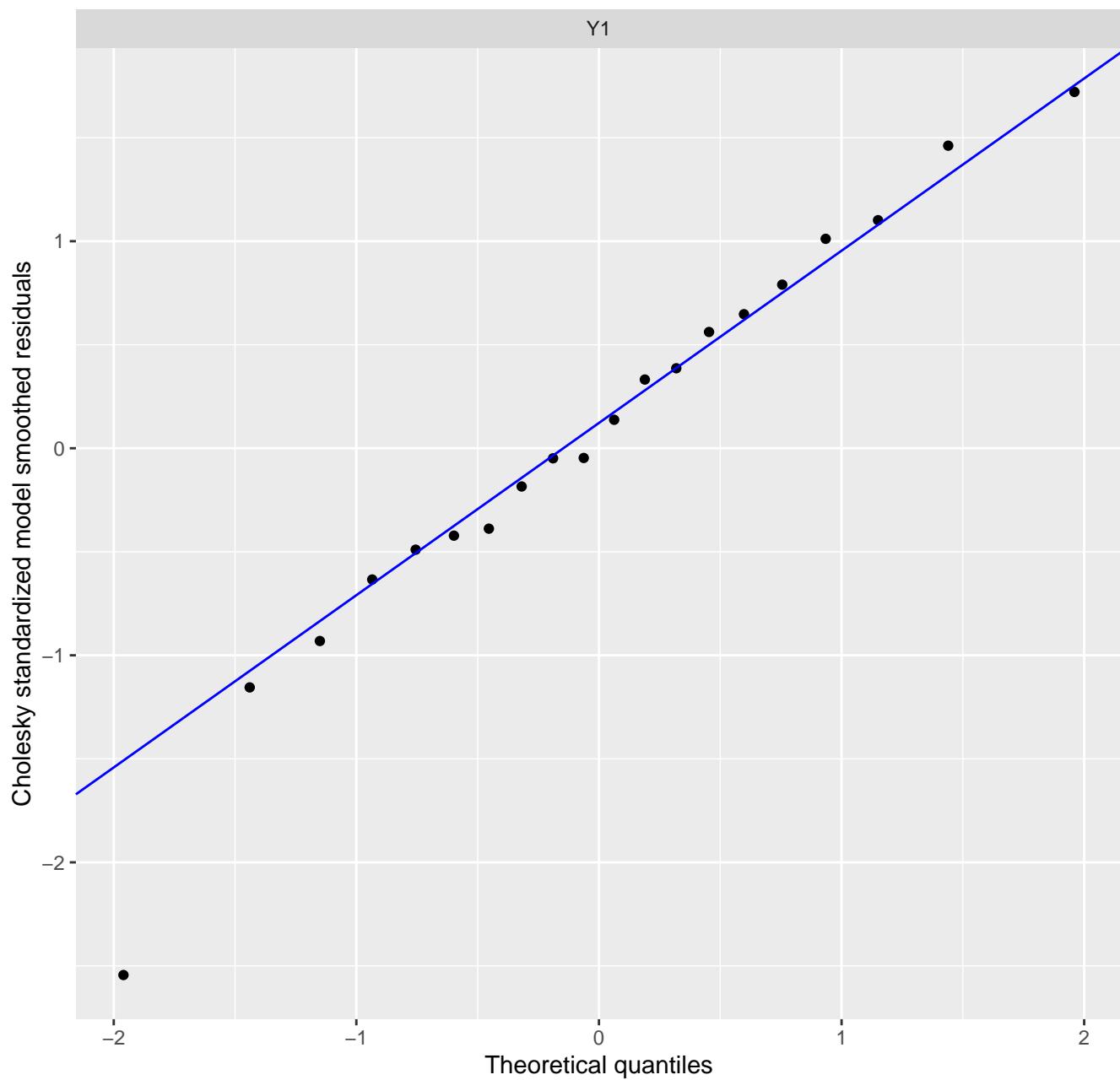
Model residuals



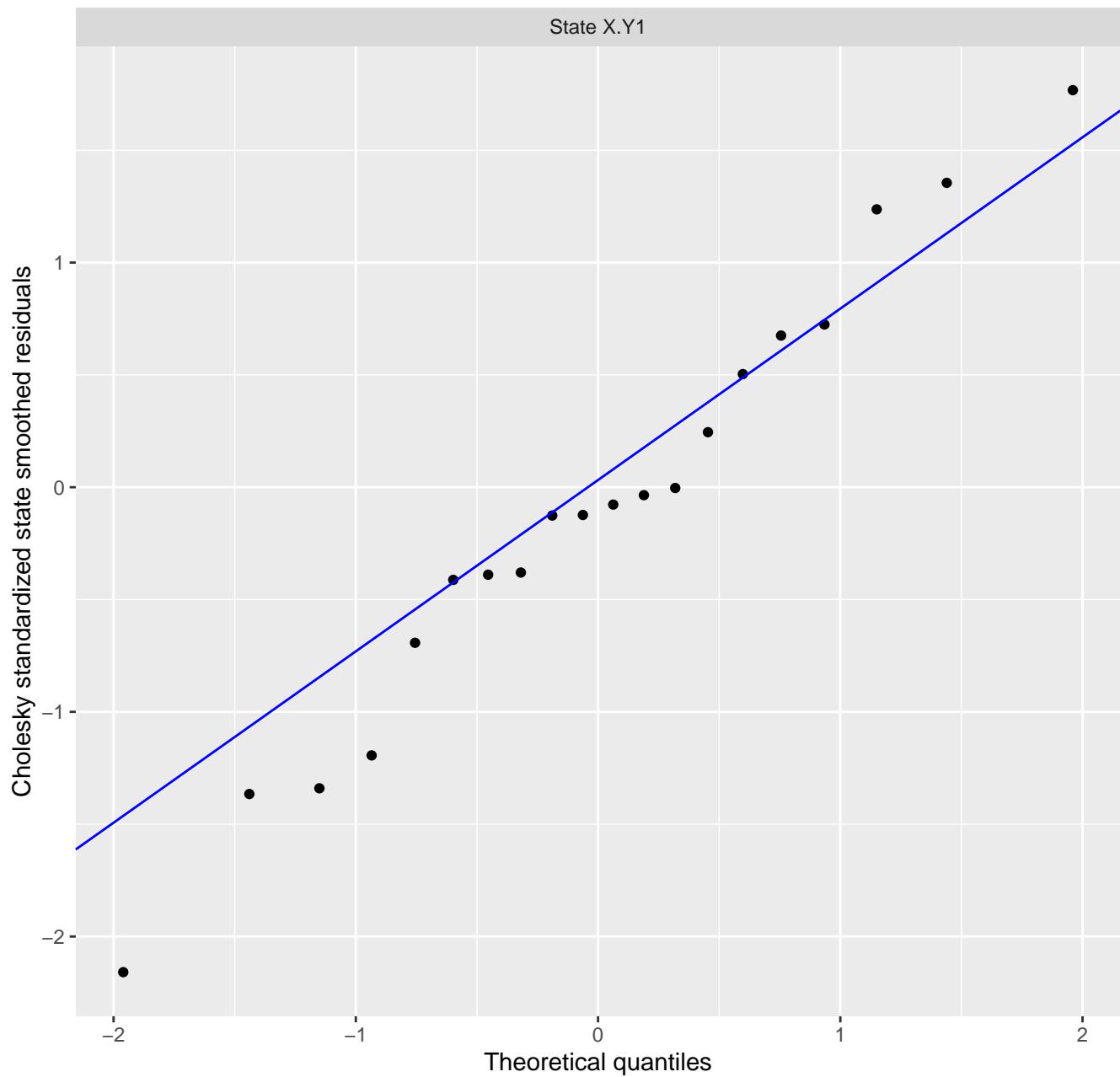
State residuals



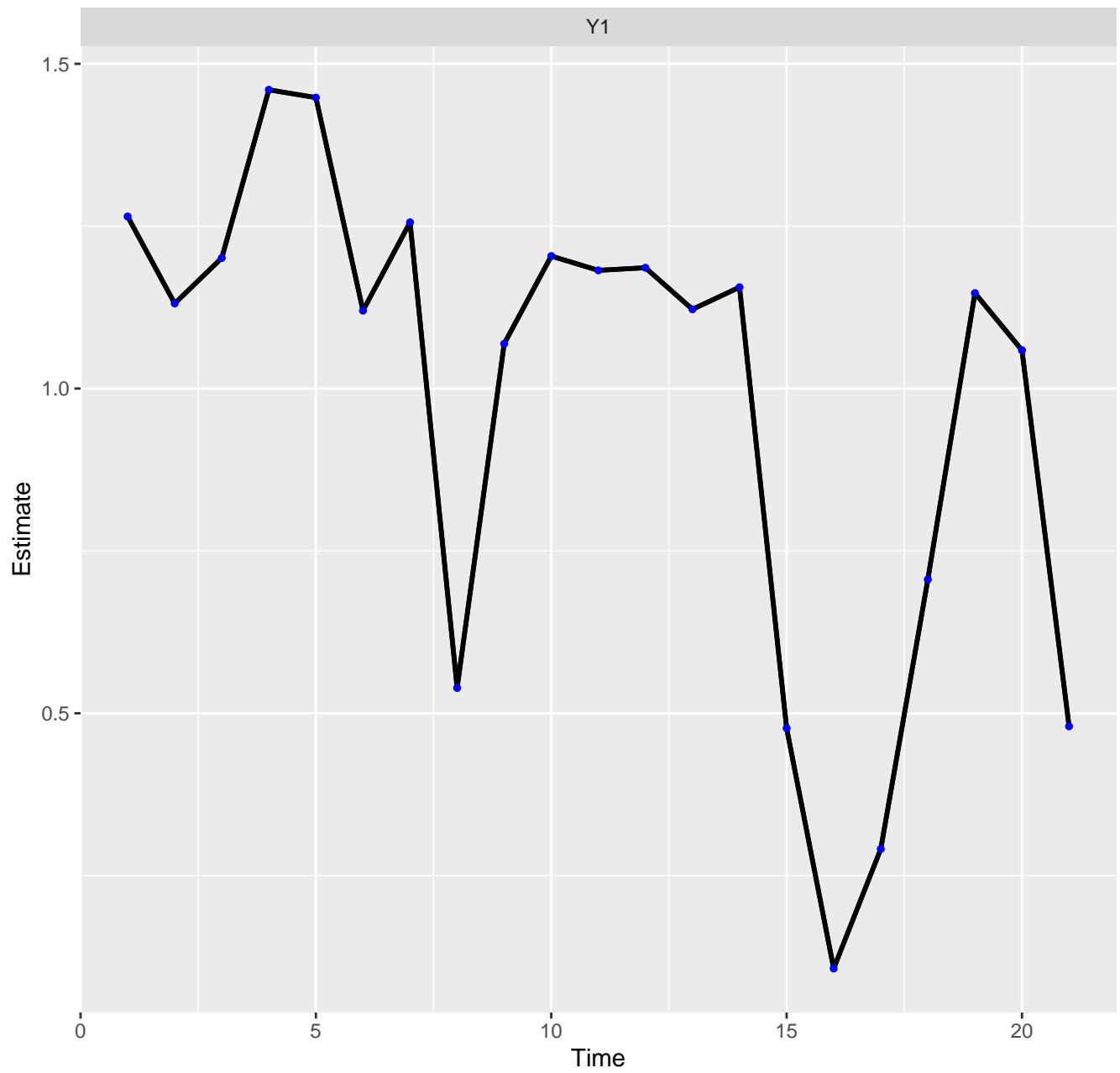
Model residuals normality test



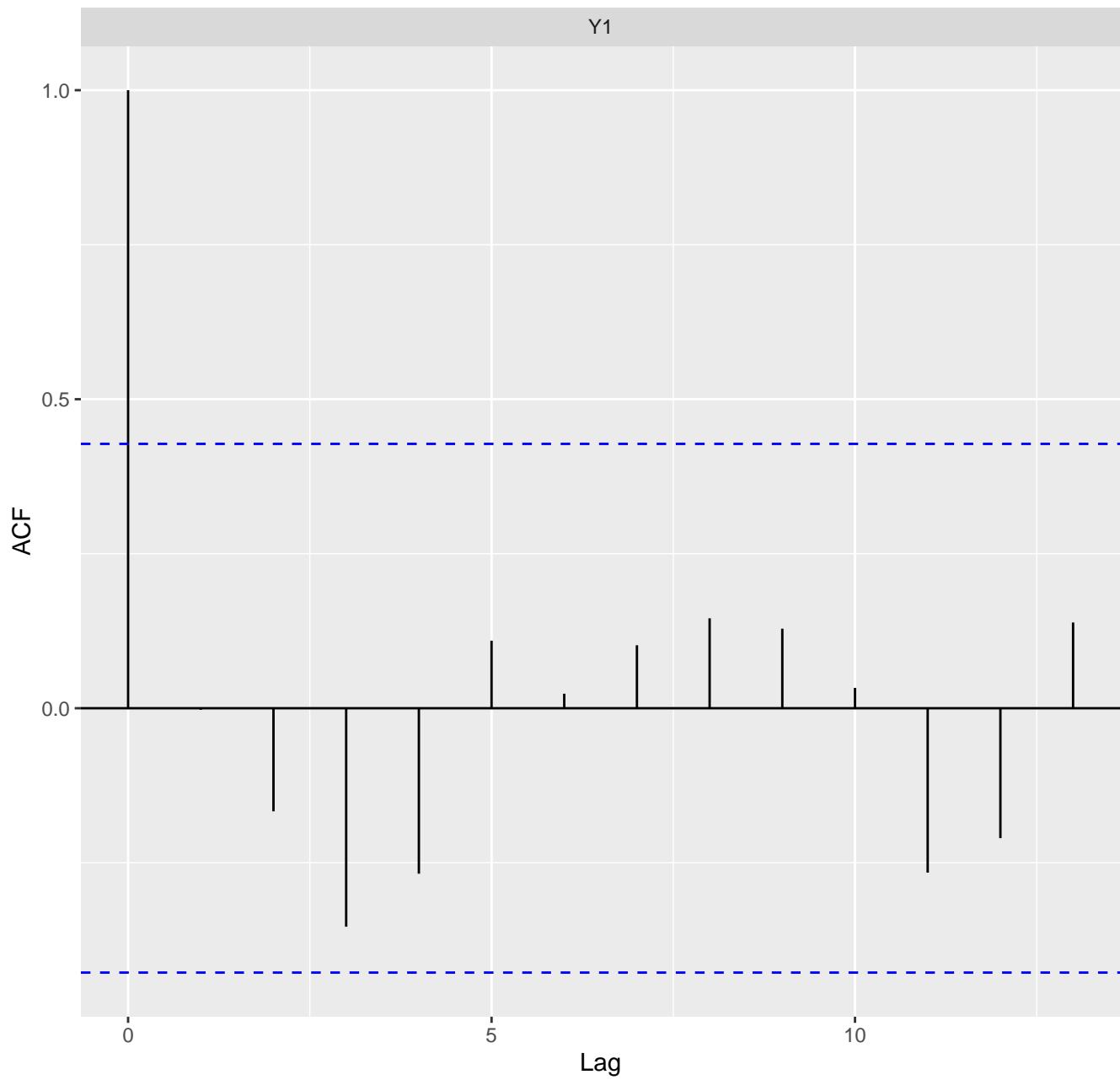
State residuals normality test



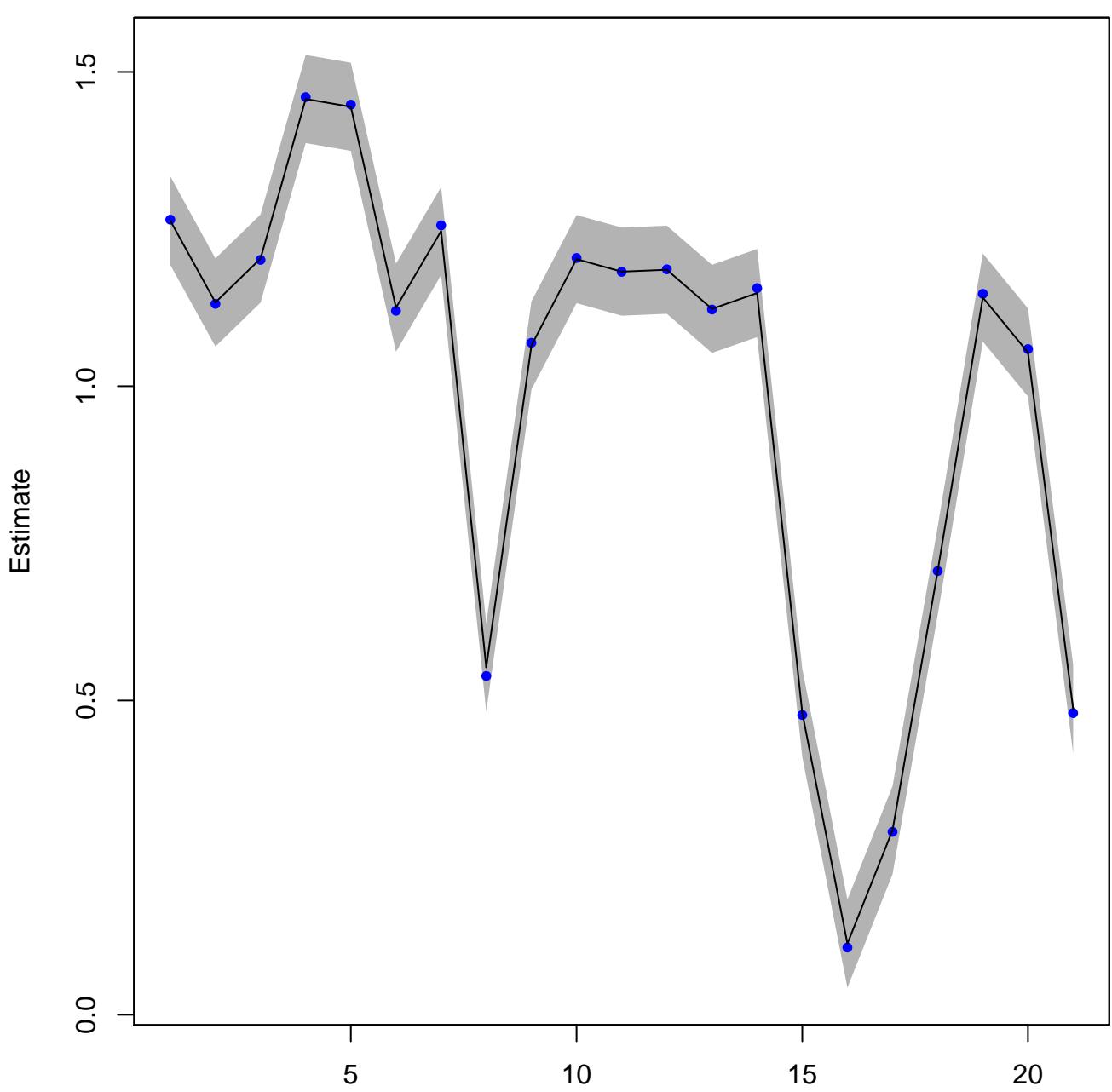
Expected value of Y conditioned on data



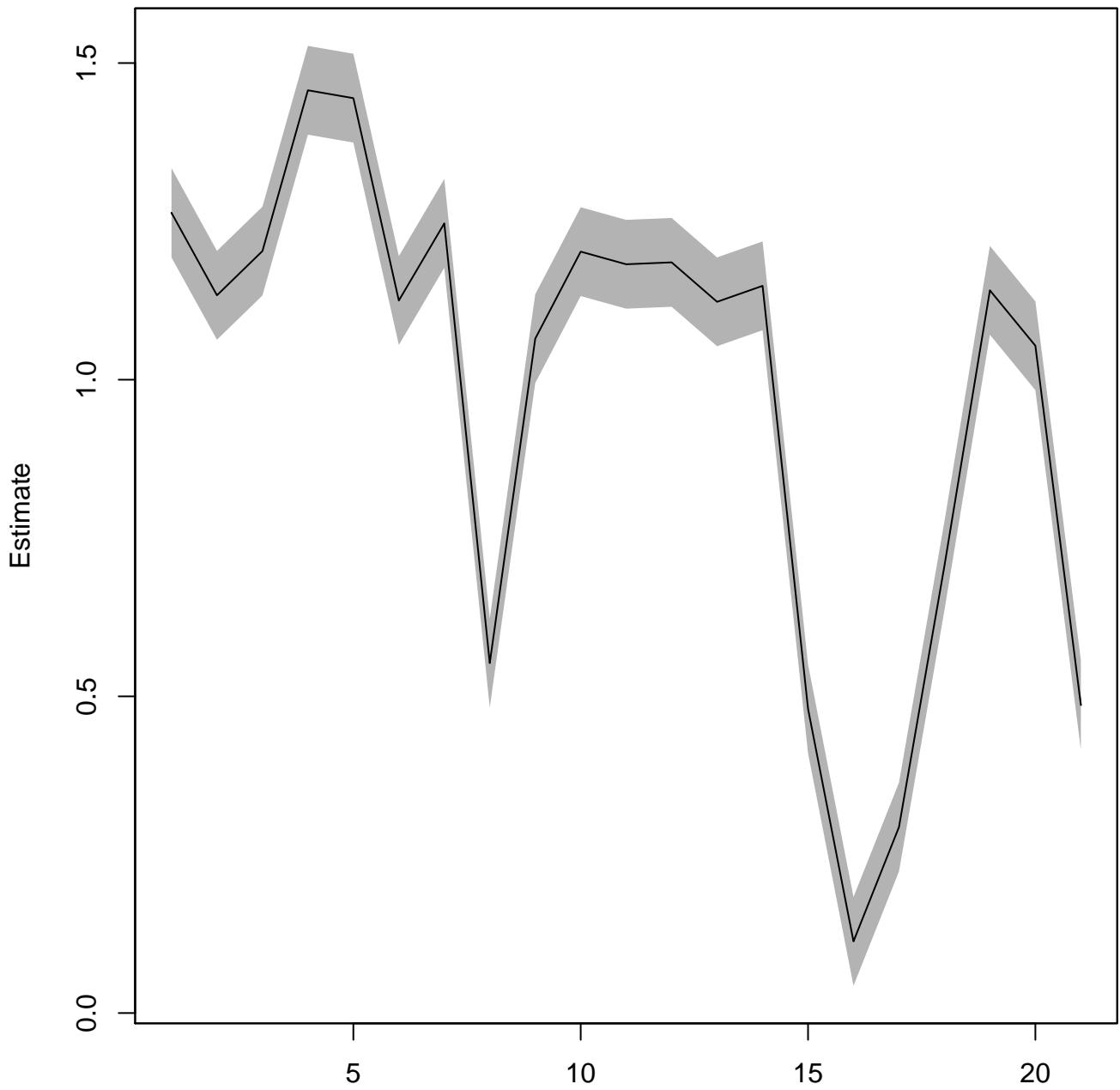
Model innovations residuals ACF

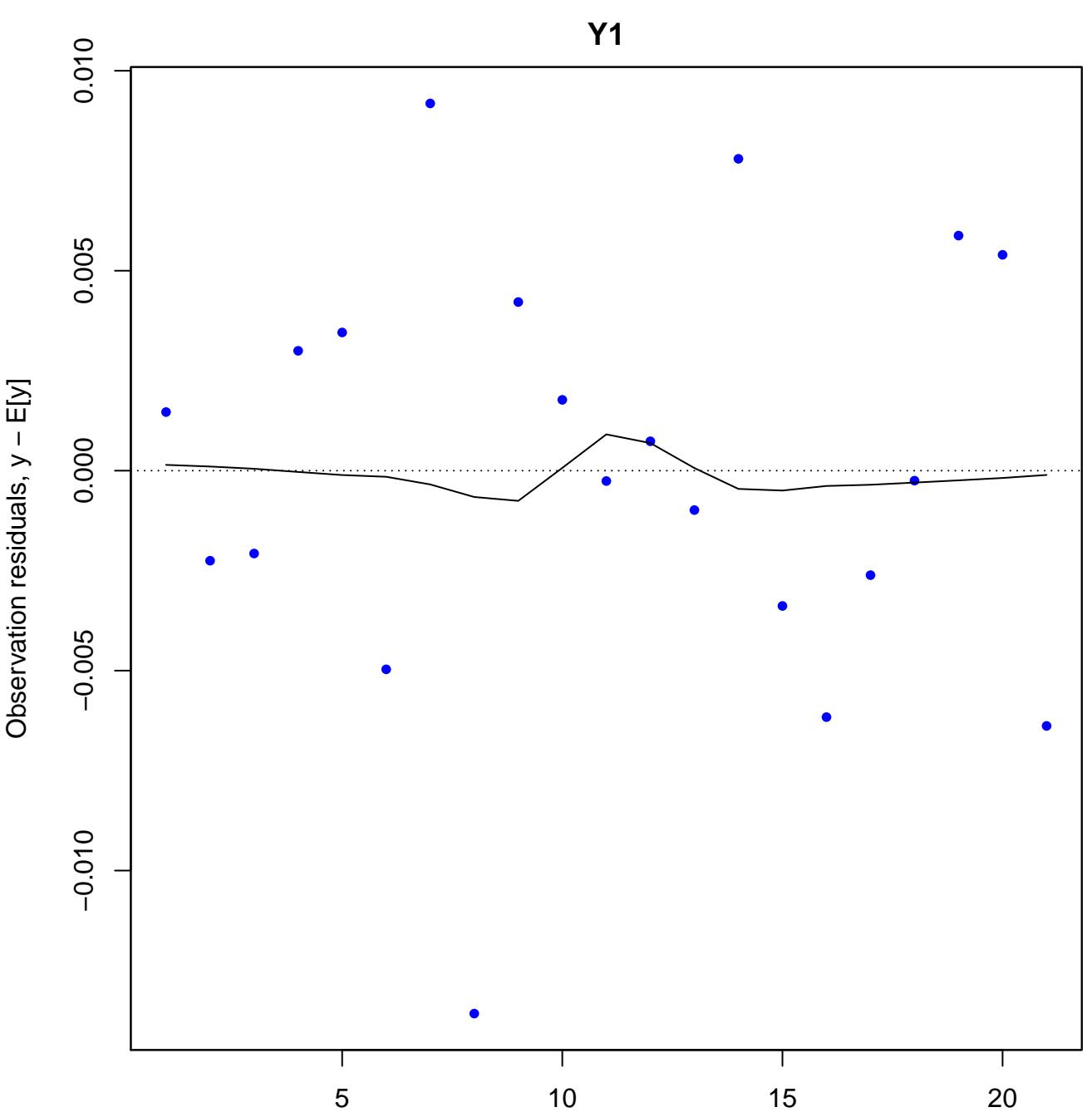


Y1 + CI

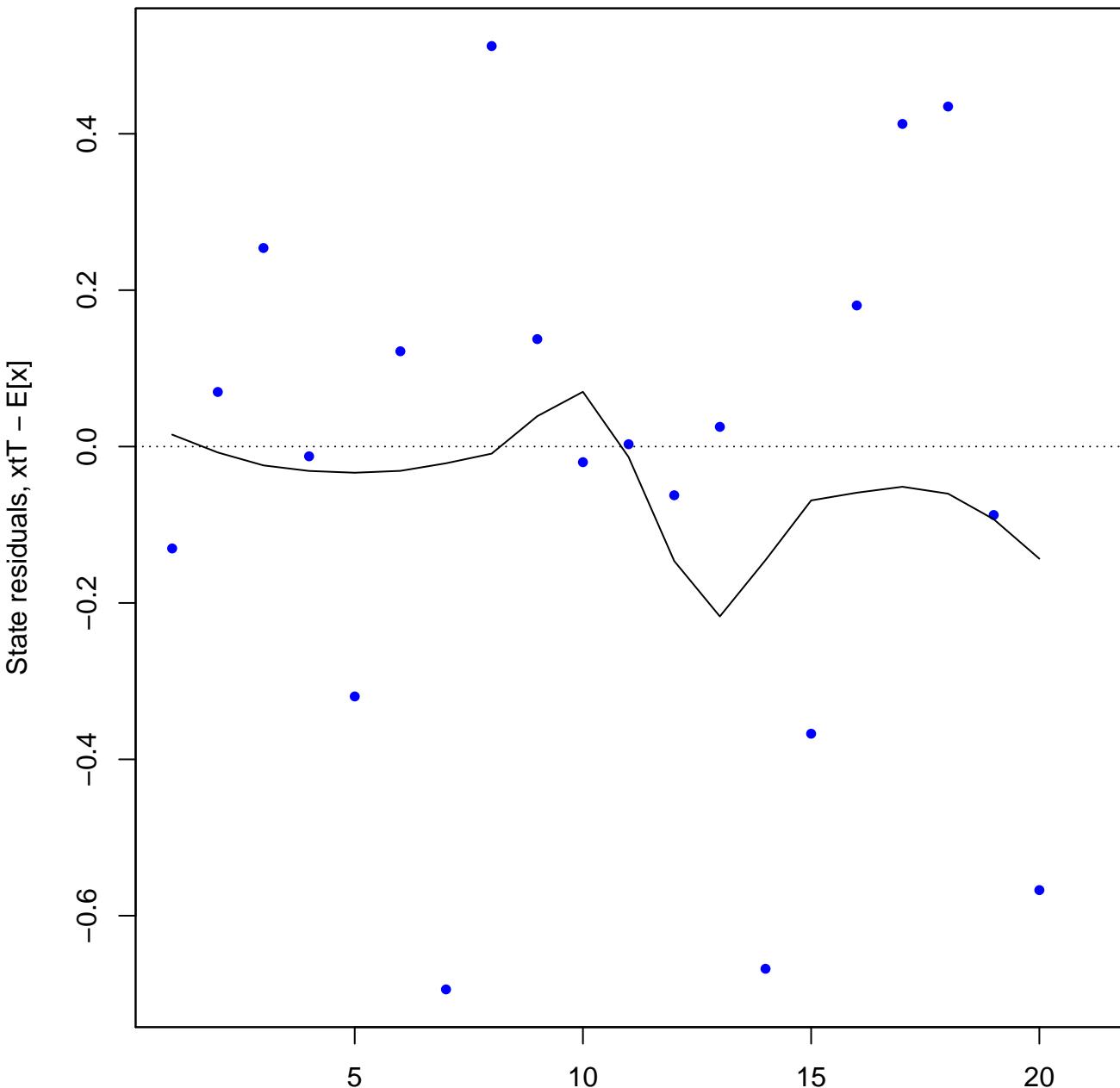


State X.Y1





State X.Y1



Y1

Sample Quantiles

1

0

-1

-2

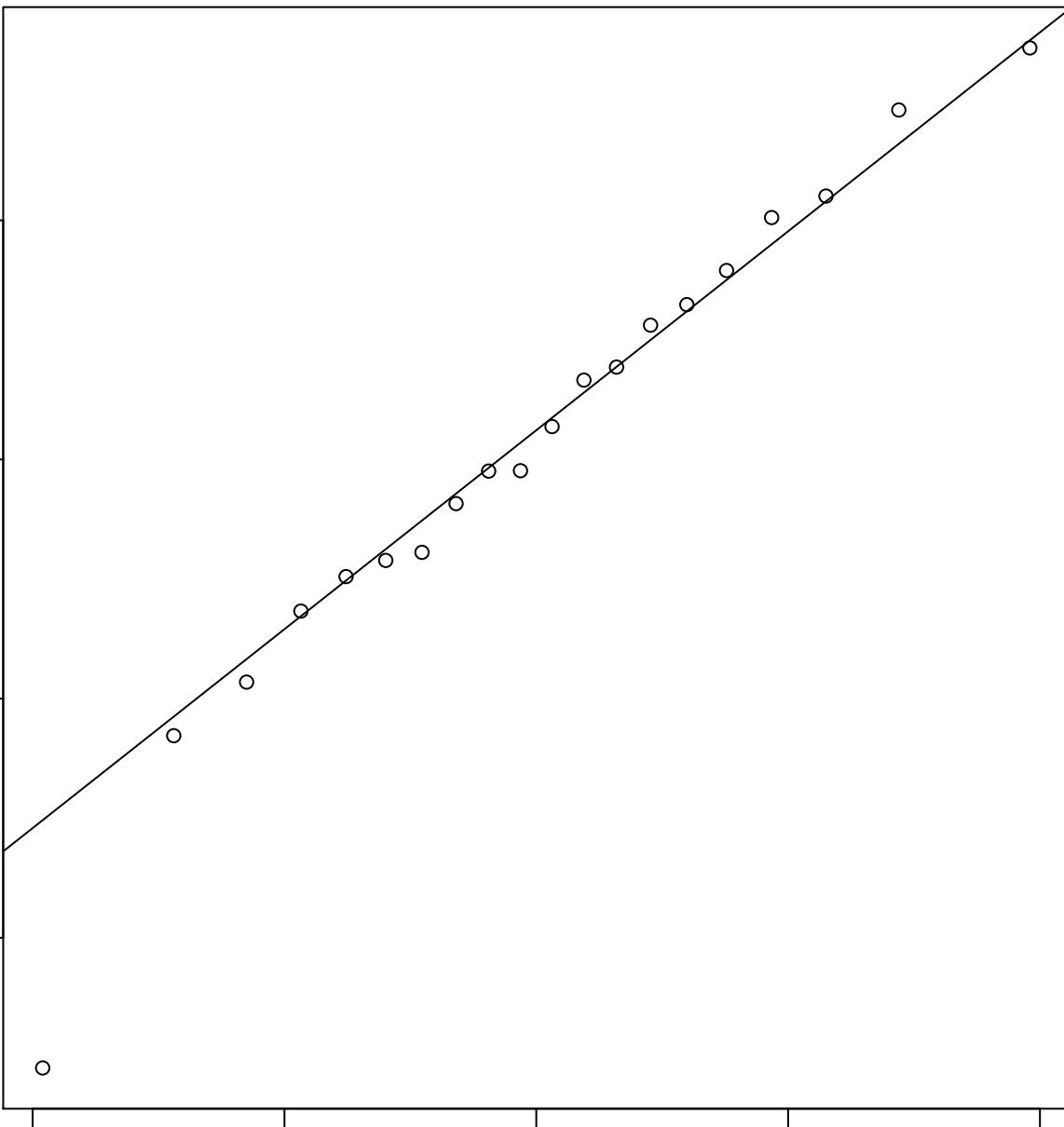
-2

-1

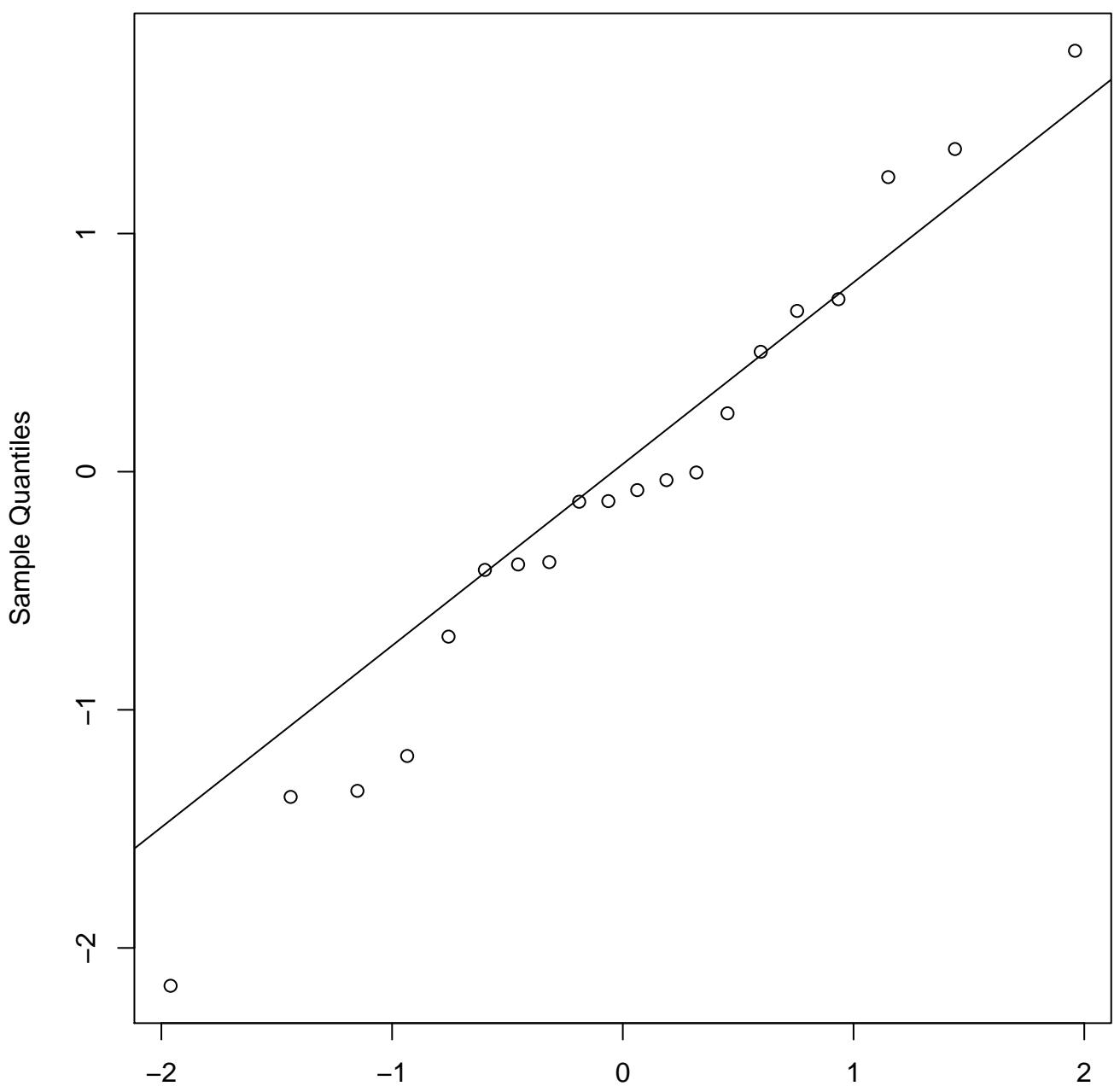
0

1

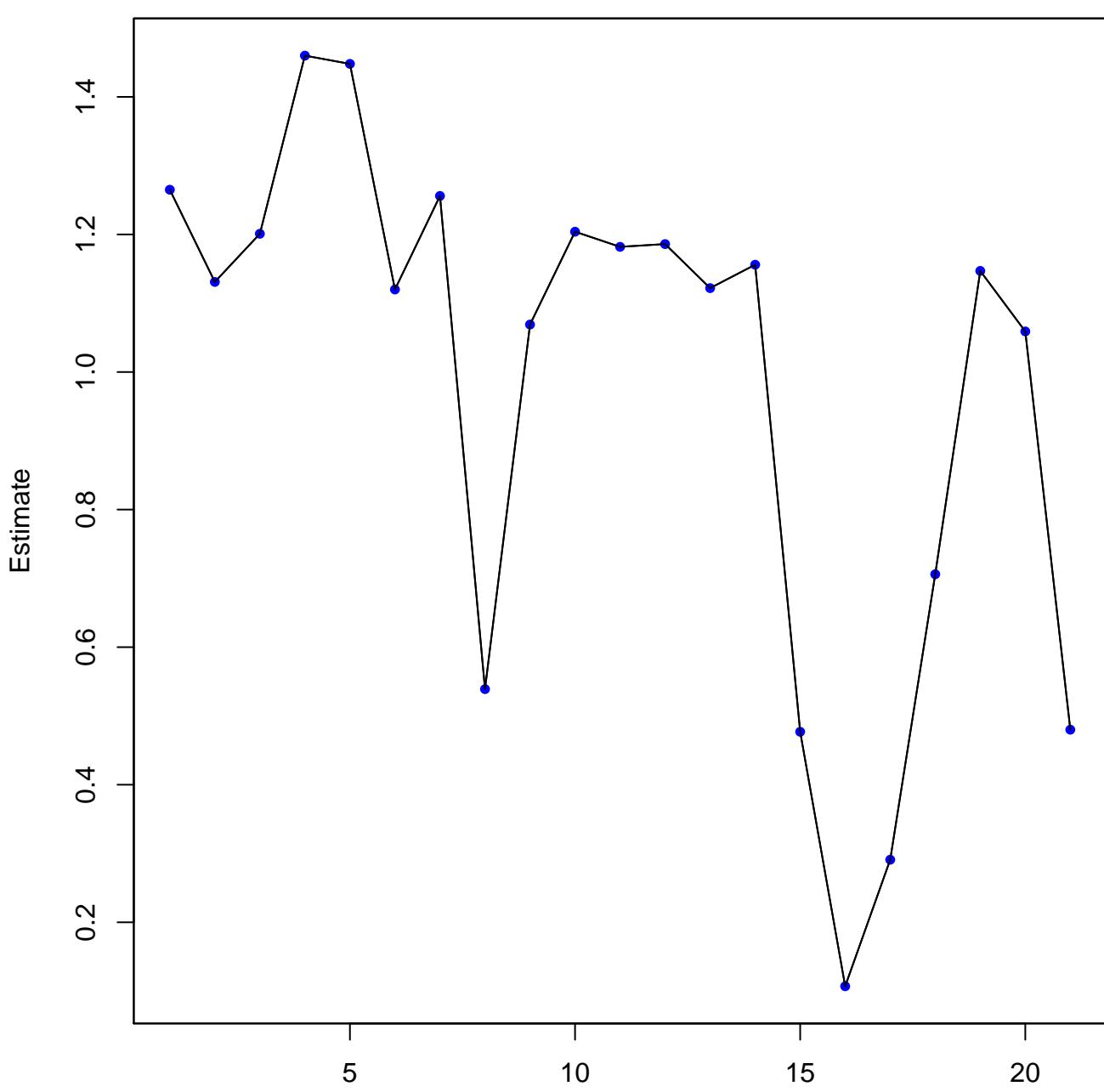
2



State X.Y1

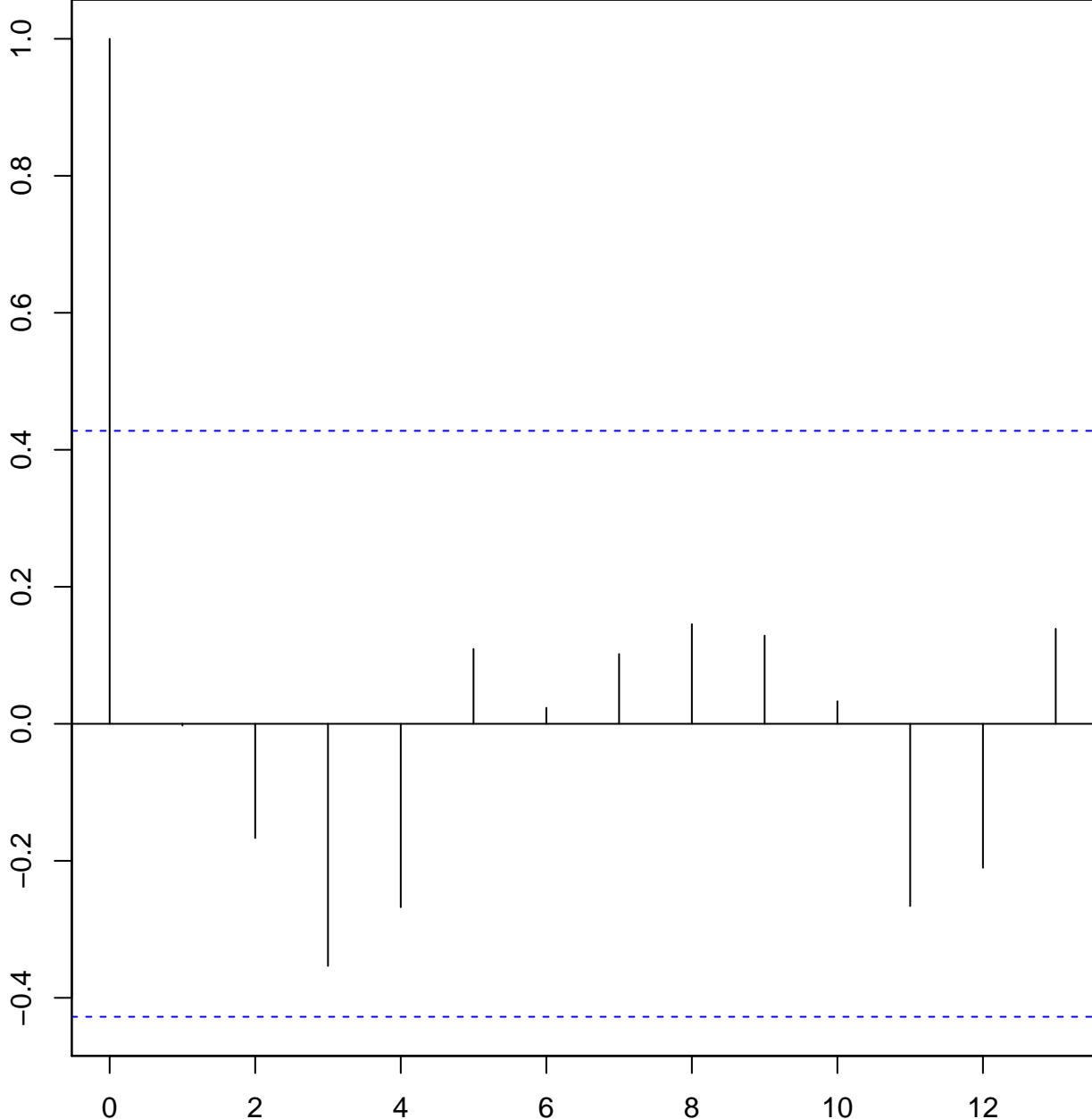


Y1 + CI

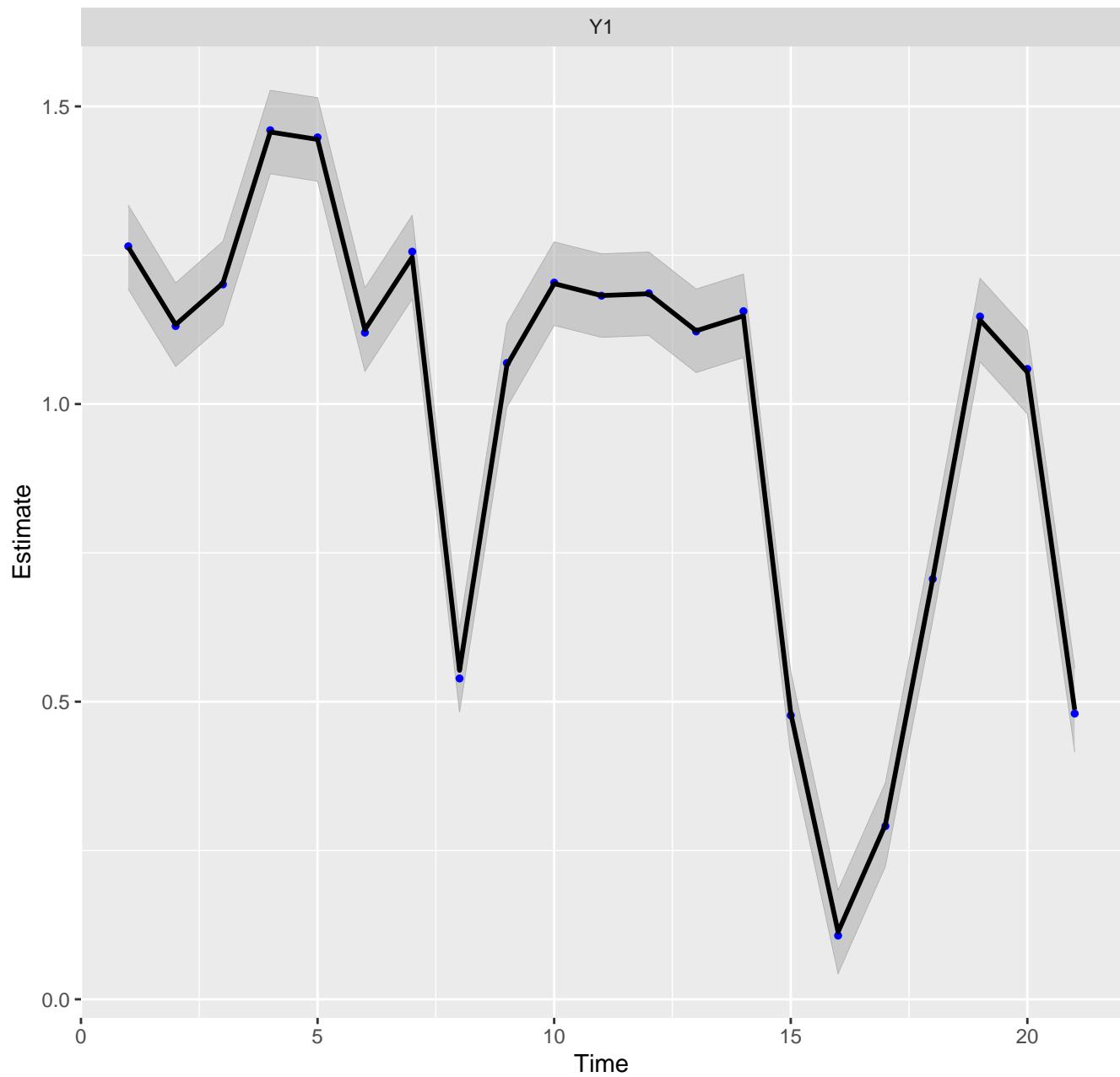


Y1

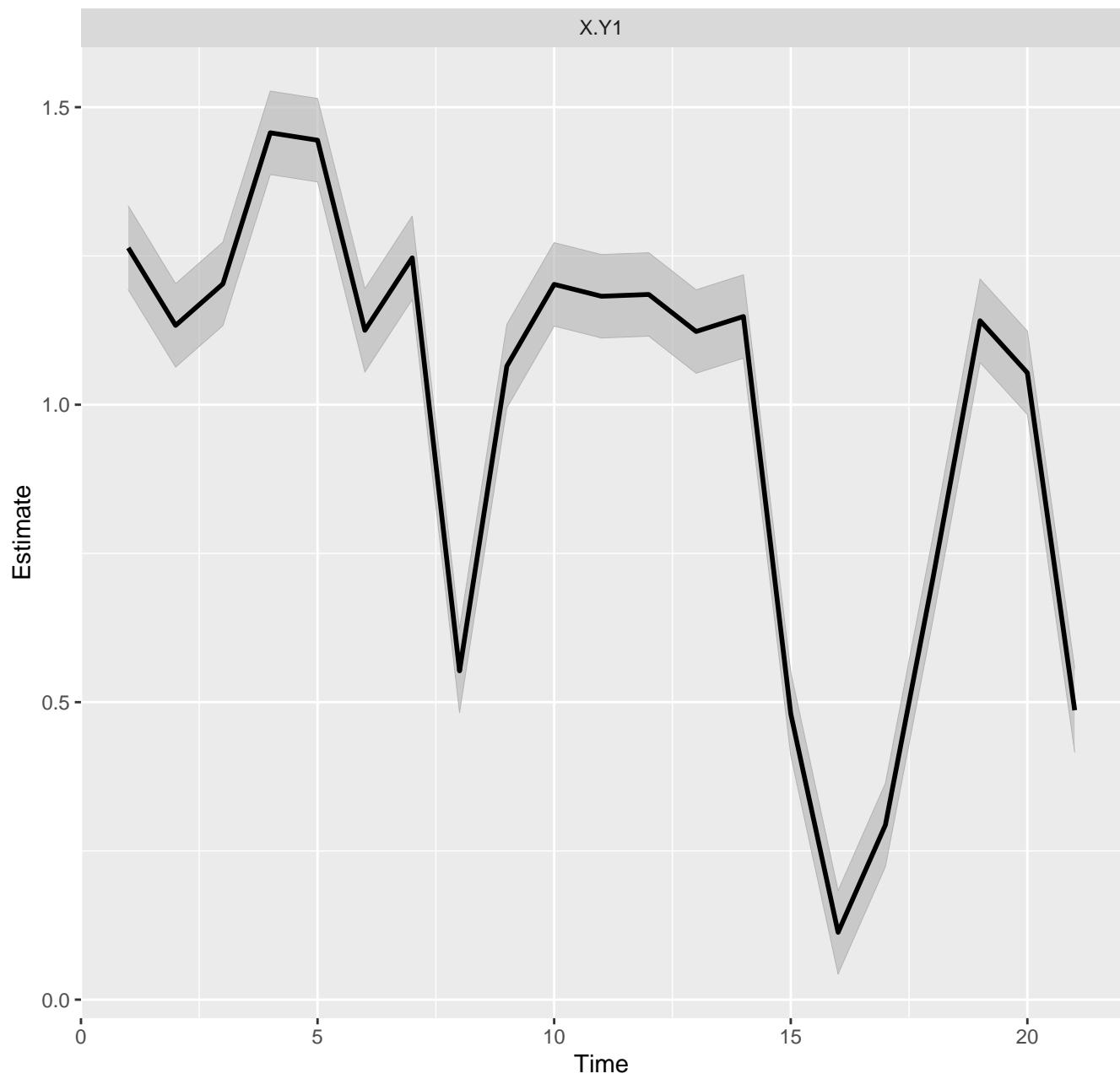
ACF



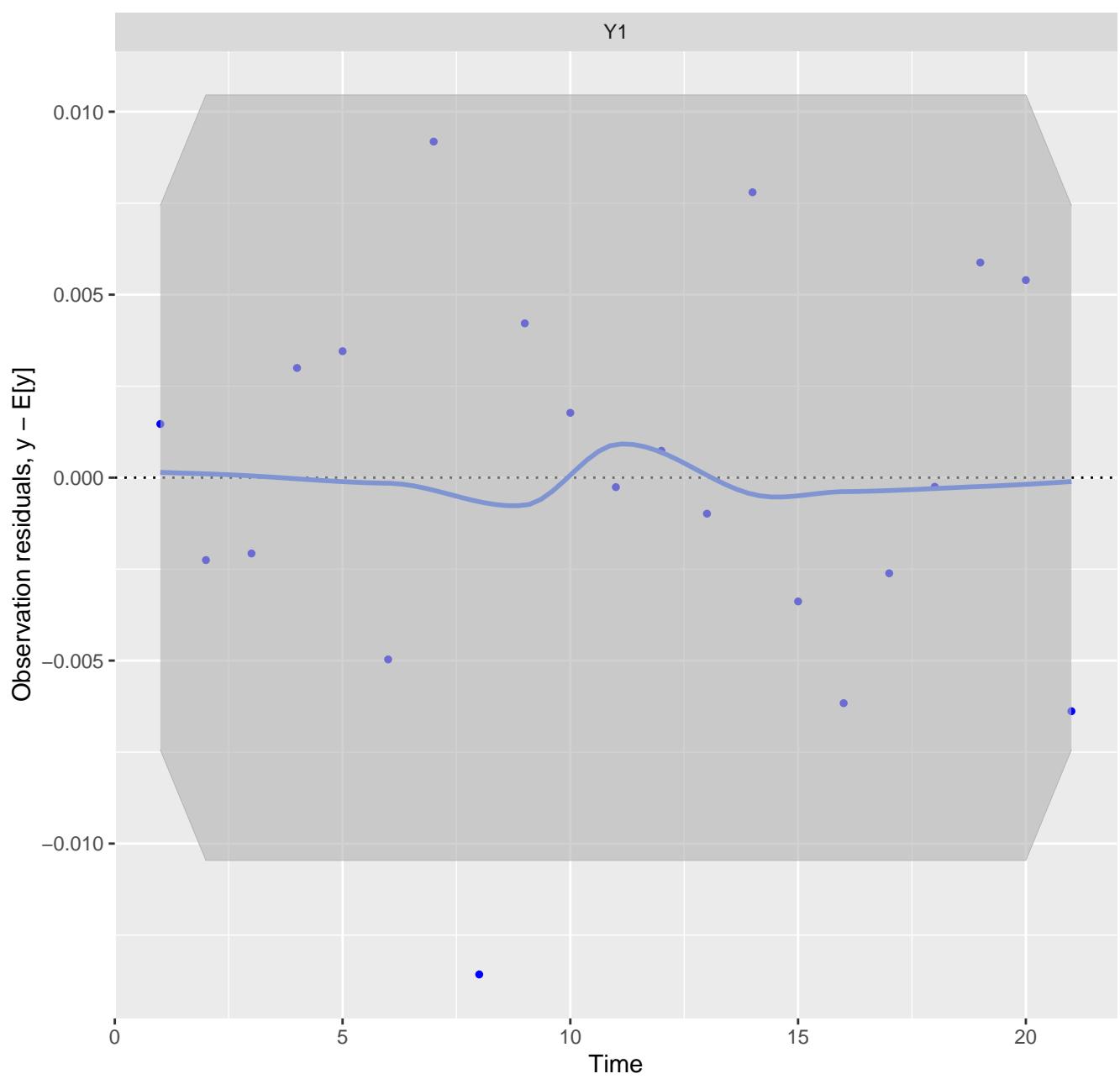
Model fitted Y + CI



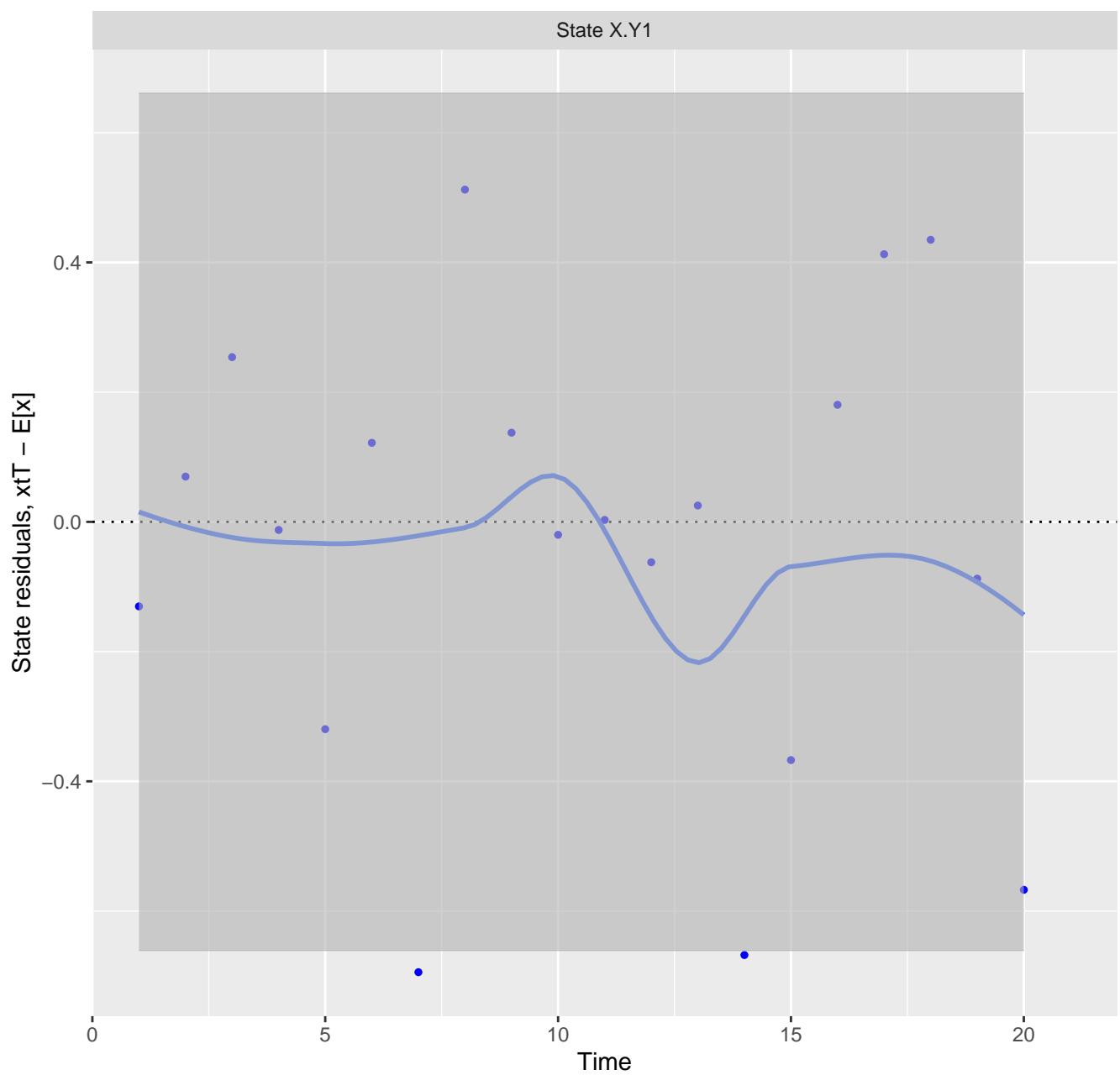
States



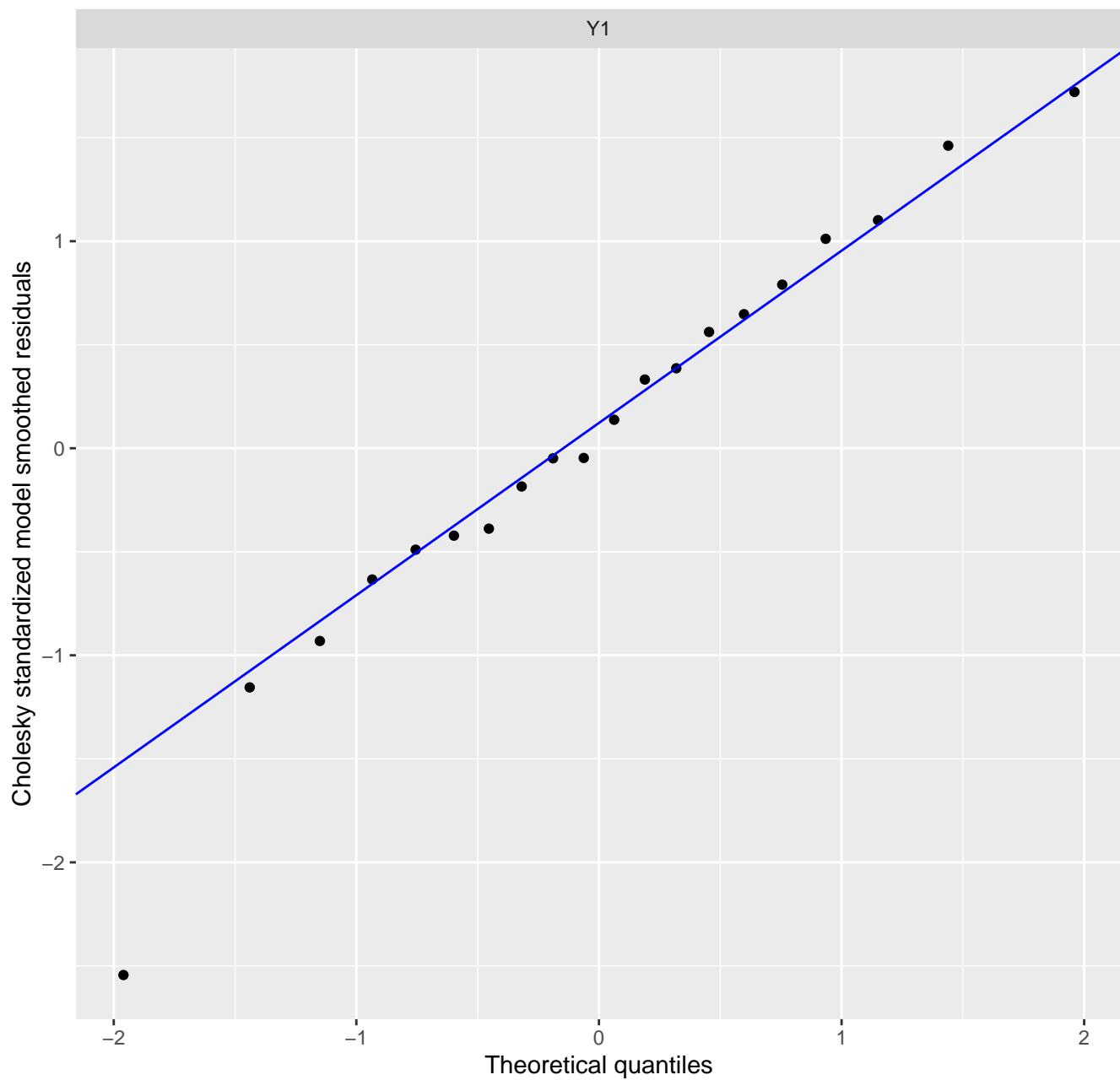
Model residuals



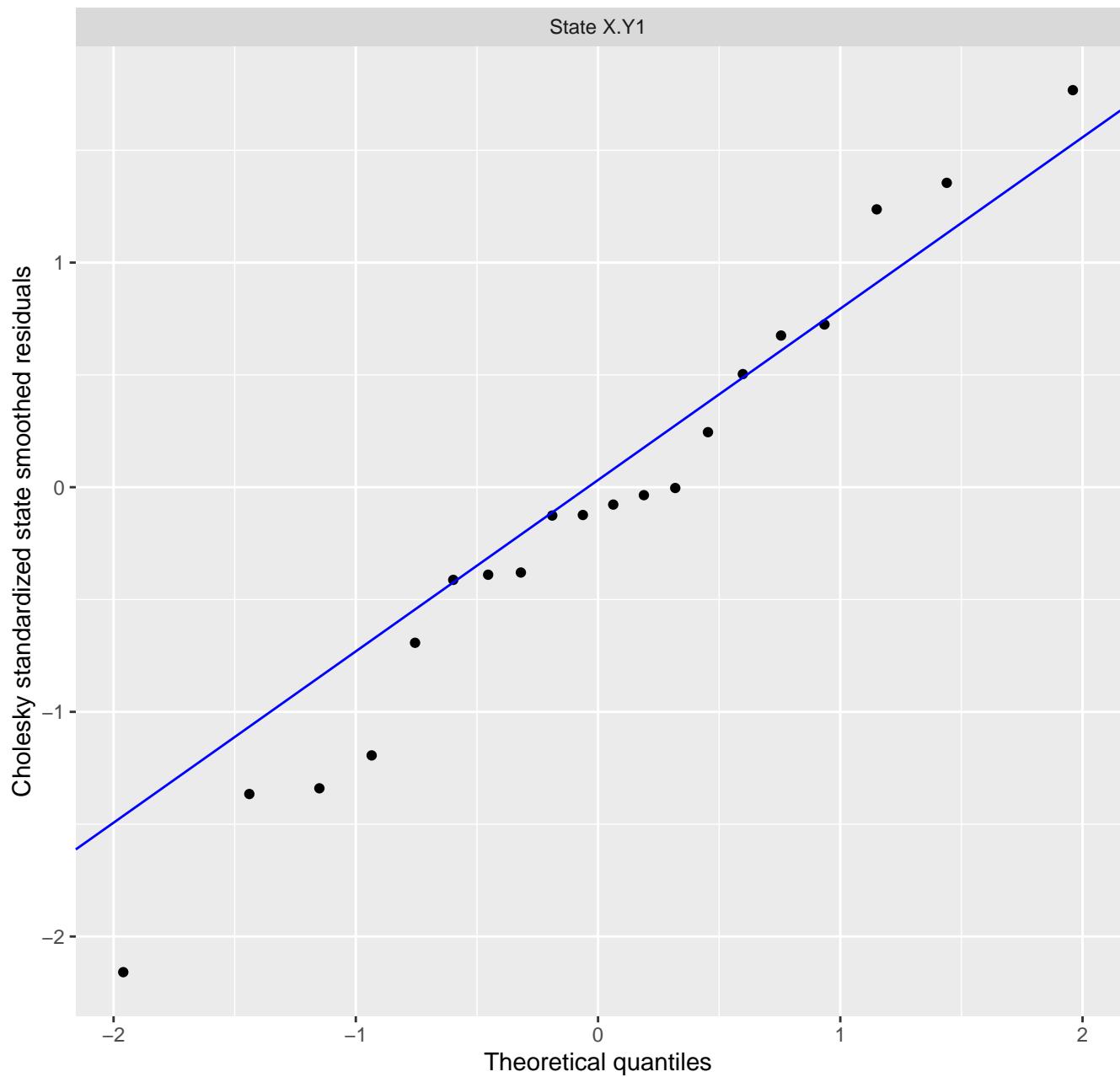
State residuals



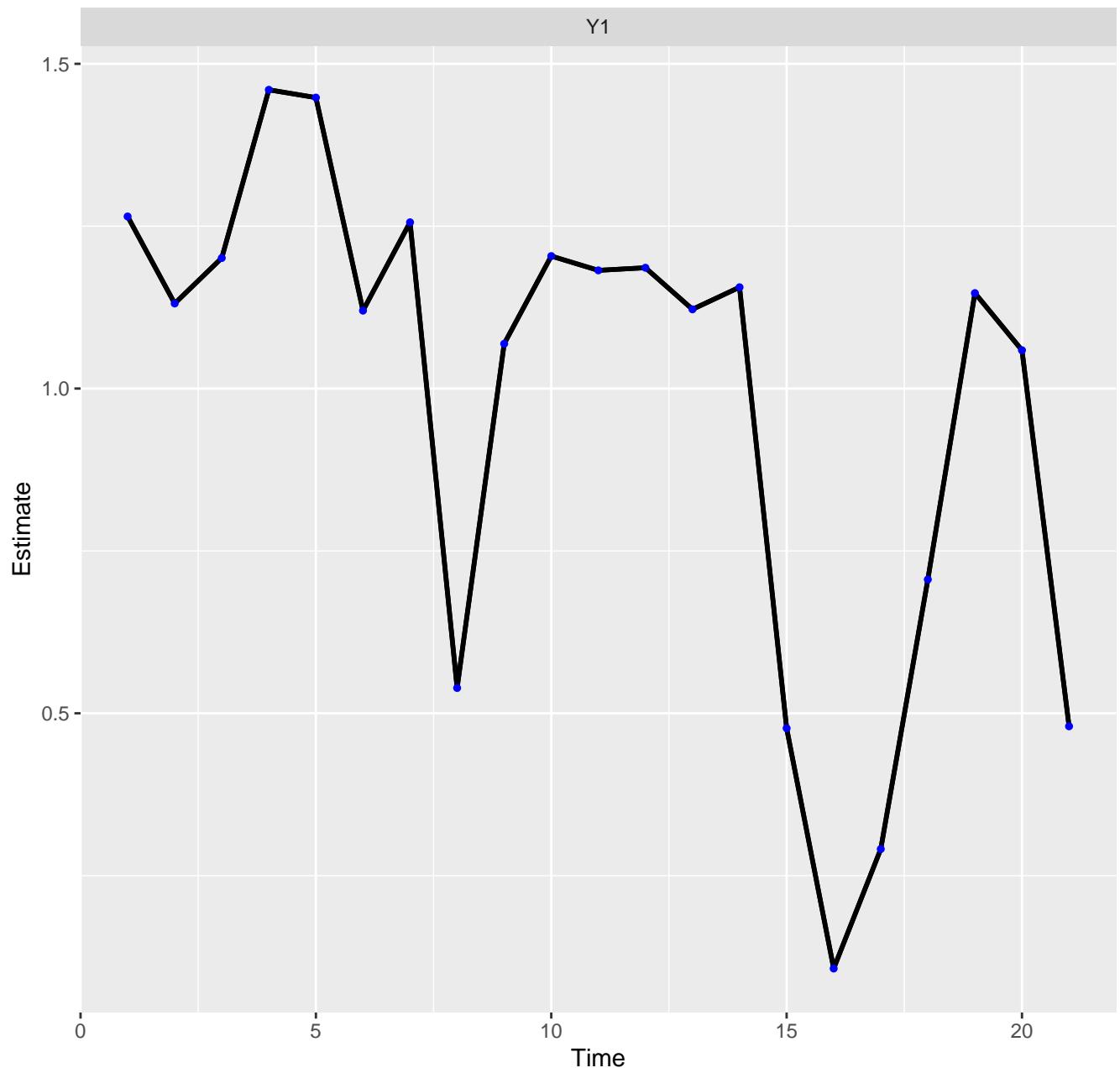
Model residuals normality test



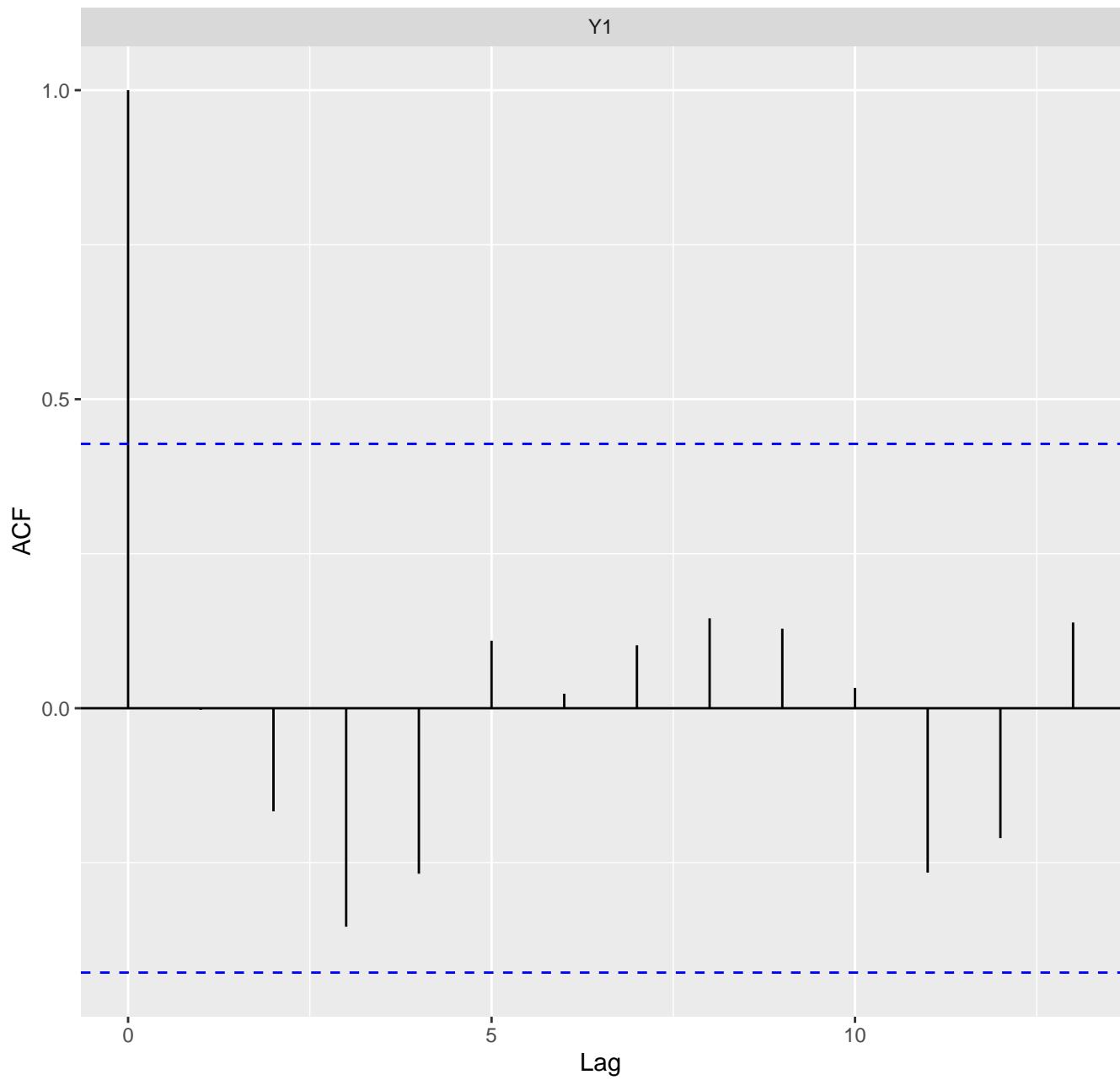
State residuals normality test



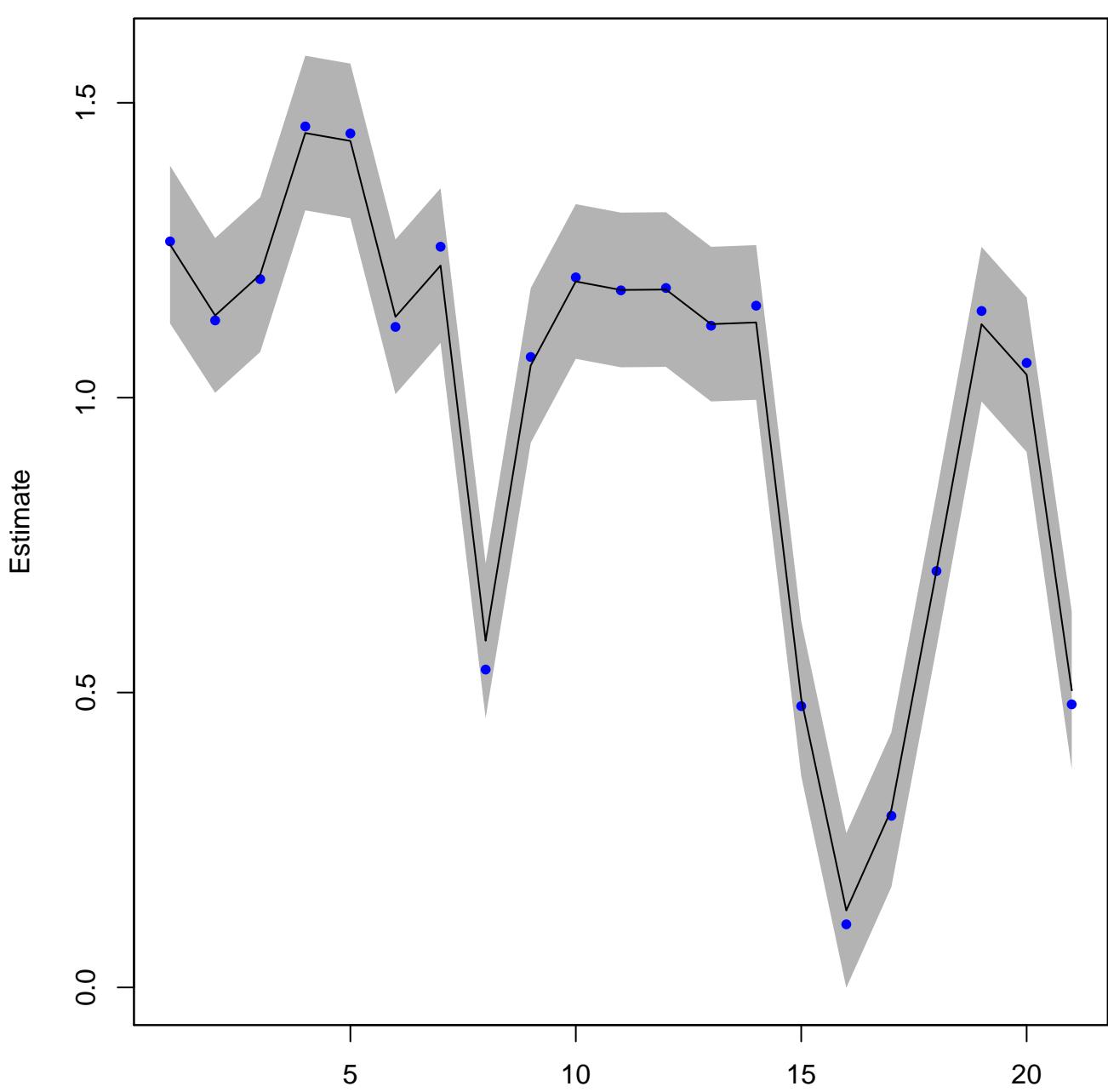
Expected value of Y conditioned on data



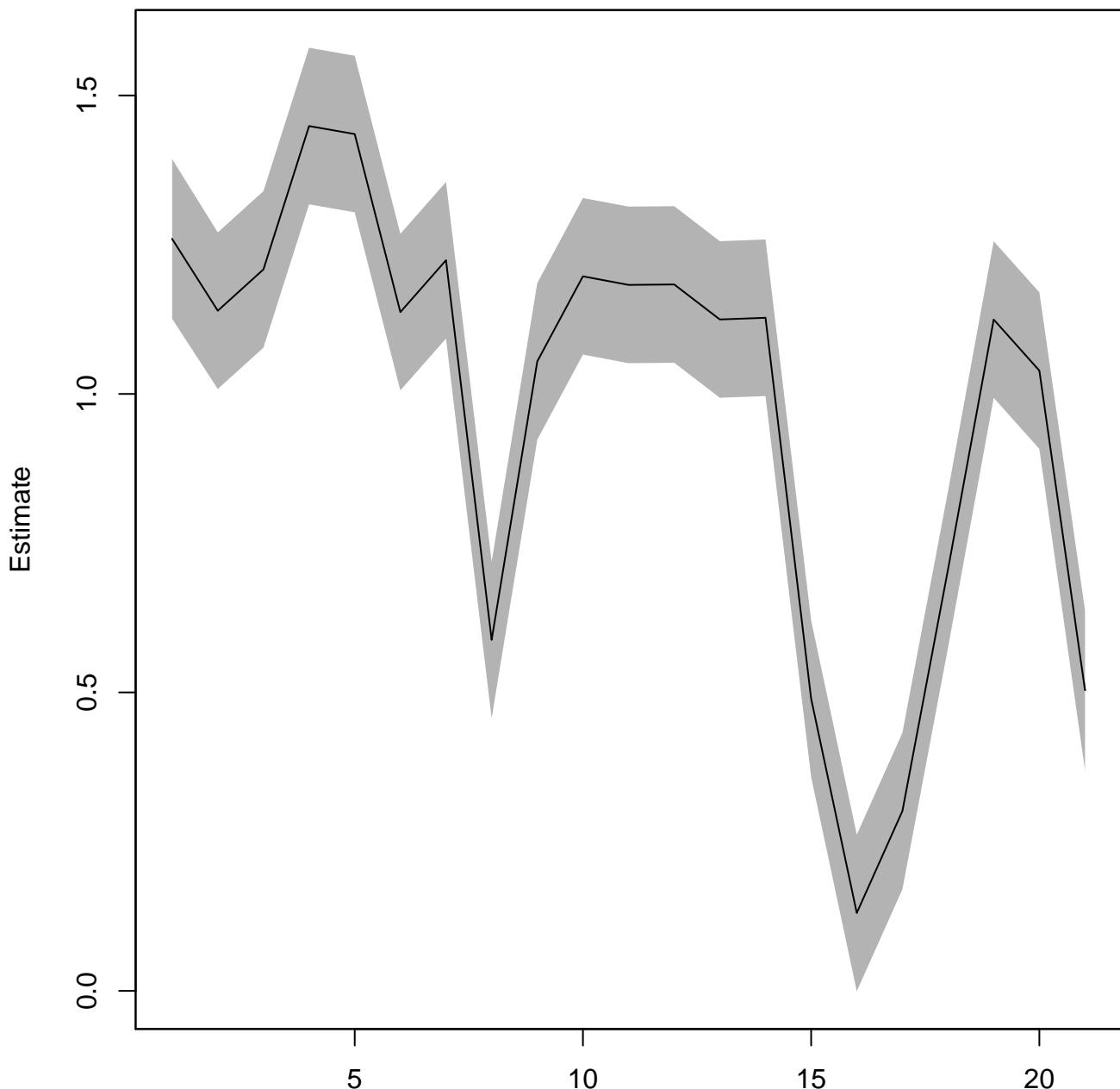
Model innovations residuals ACF



$Y_1 + CI$

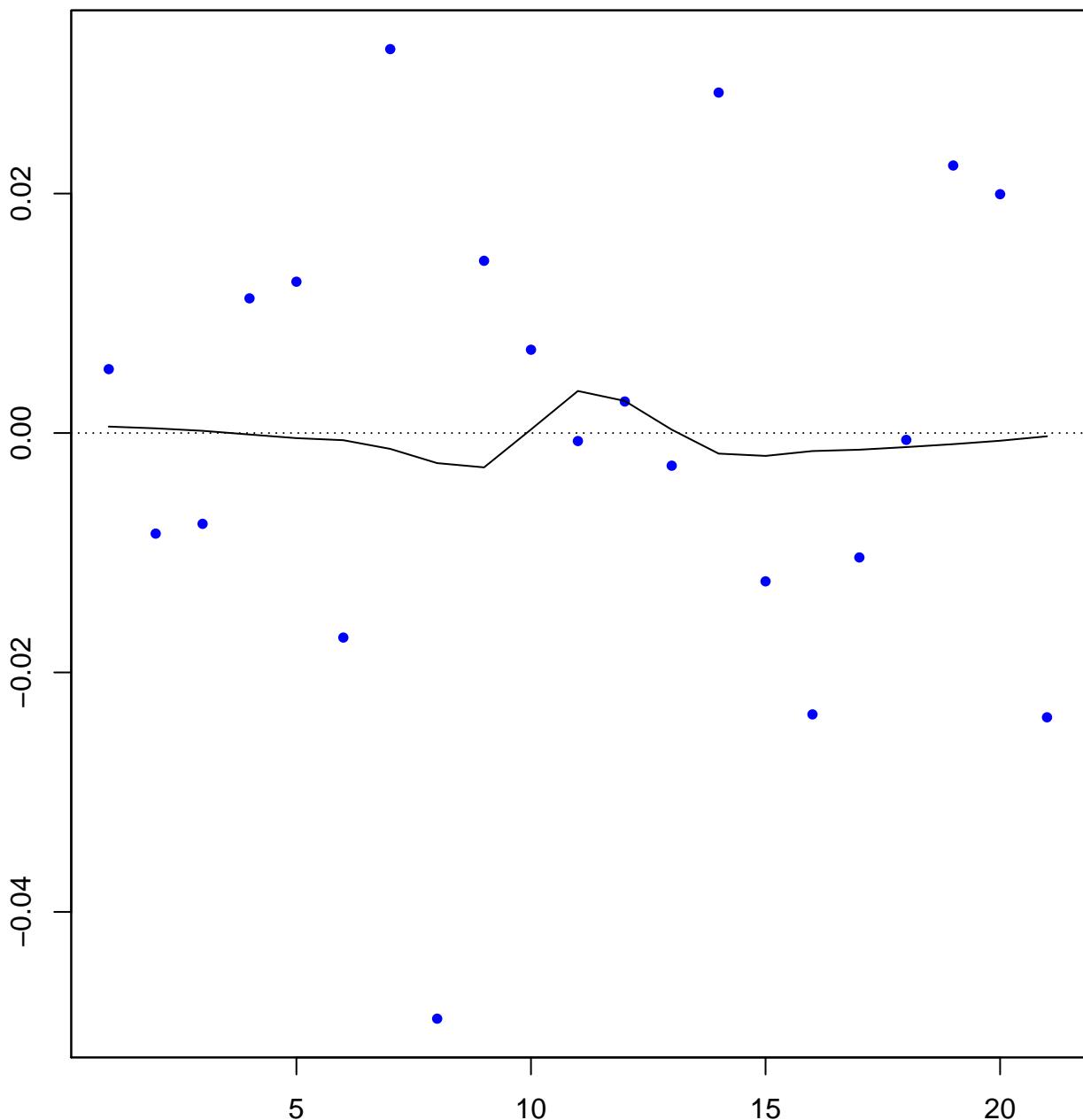


State X.Y1

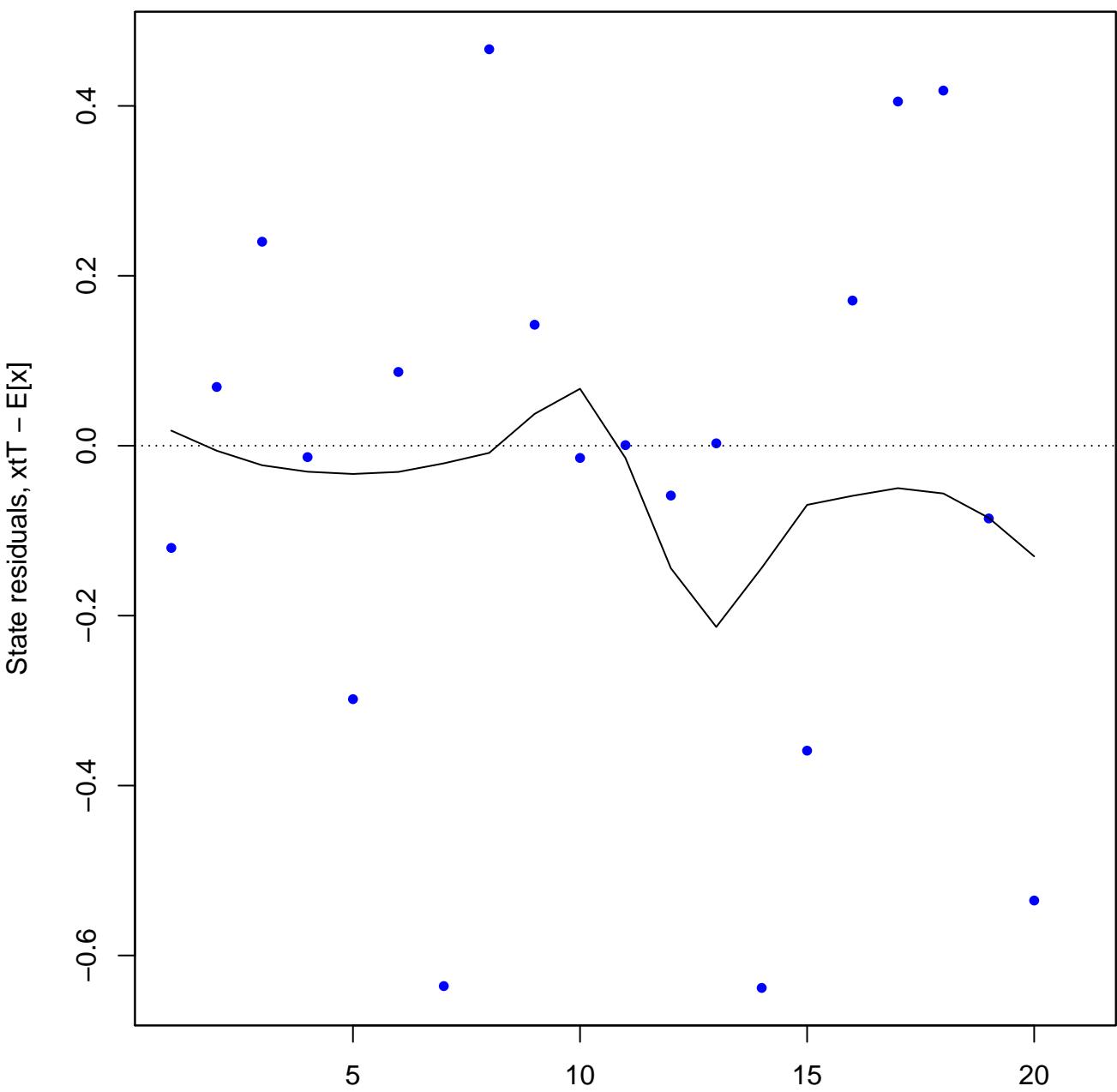


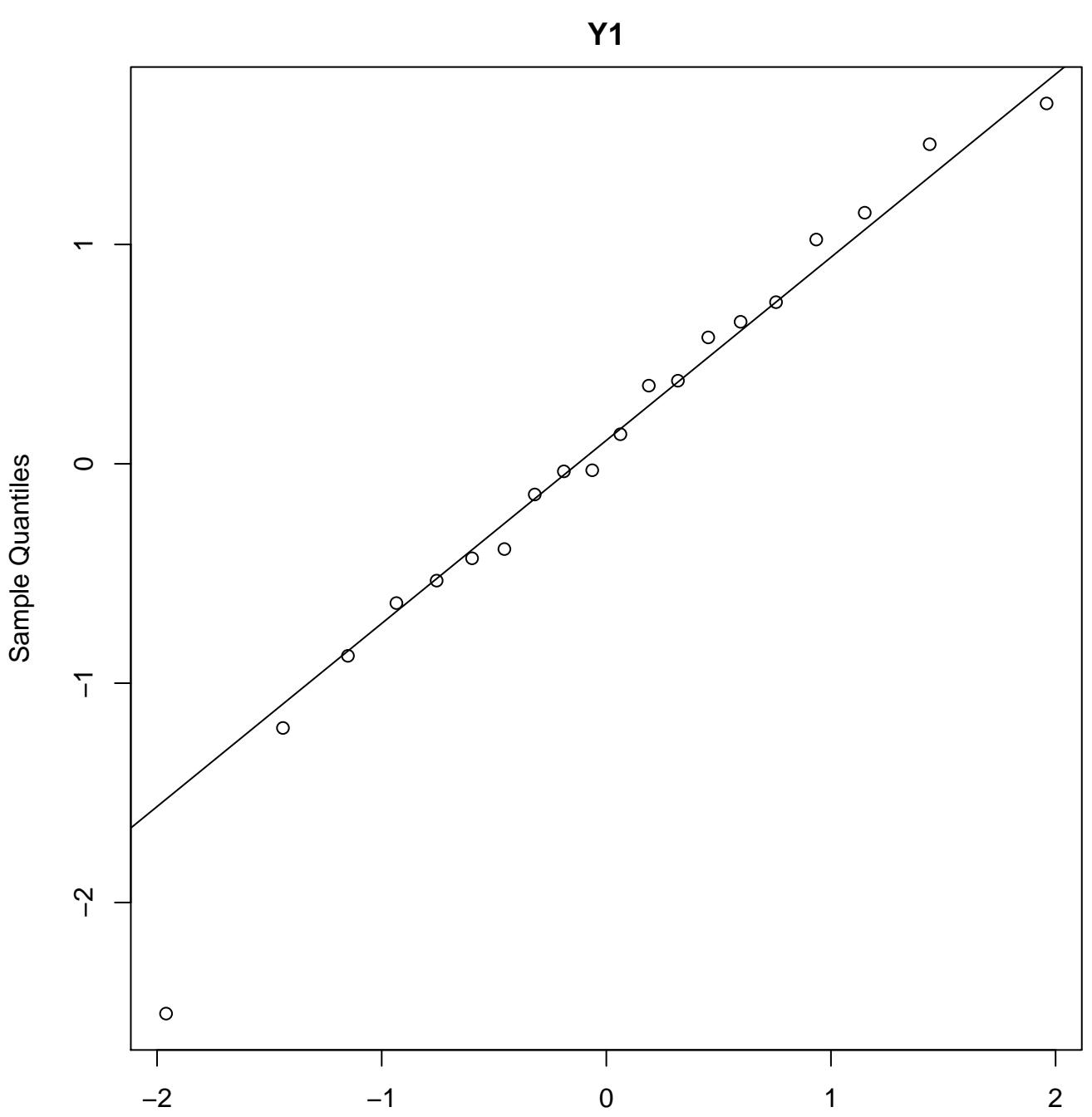
Y1

Observation residuals, $y - E[y]$

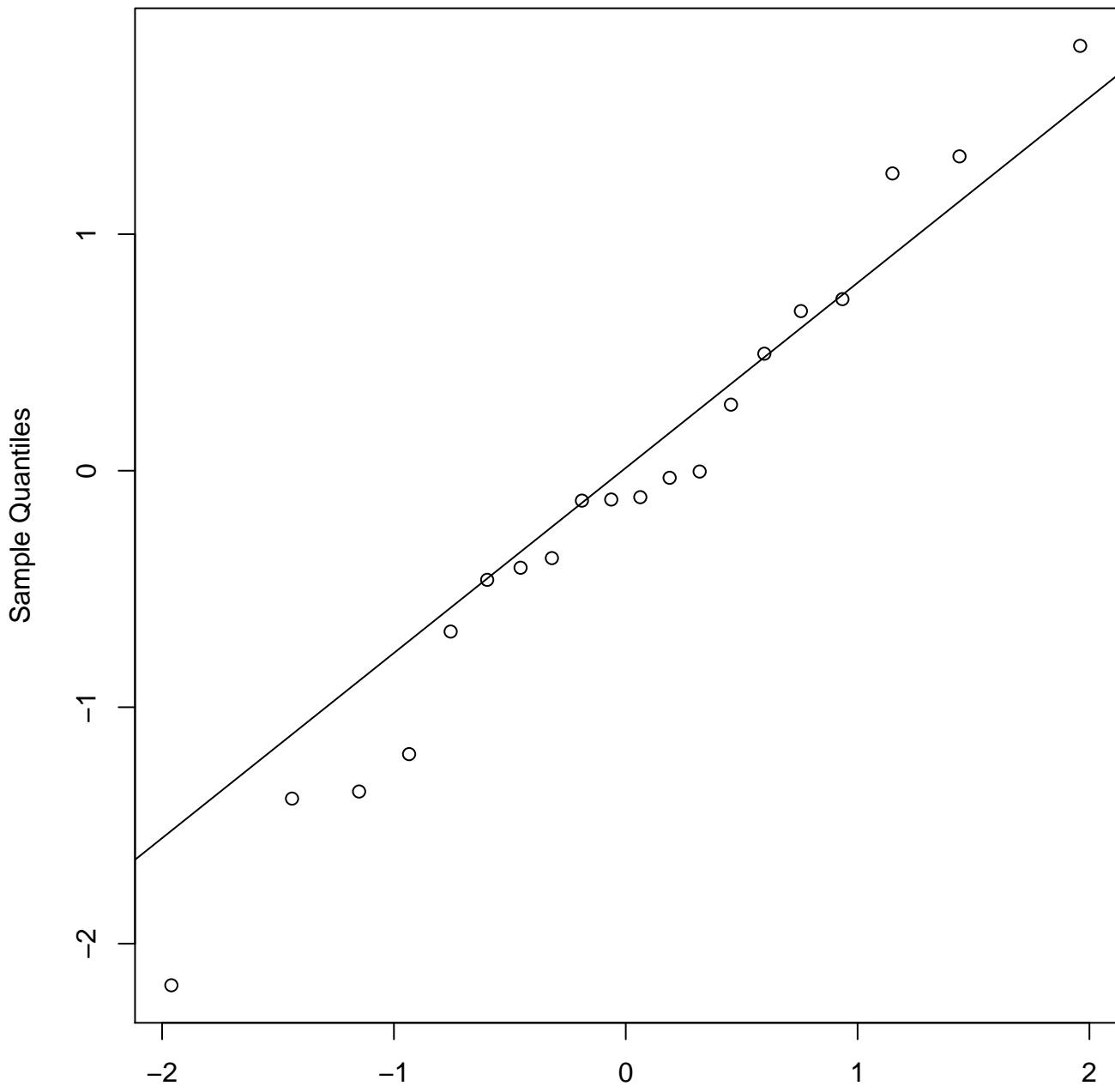


State X.Y1

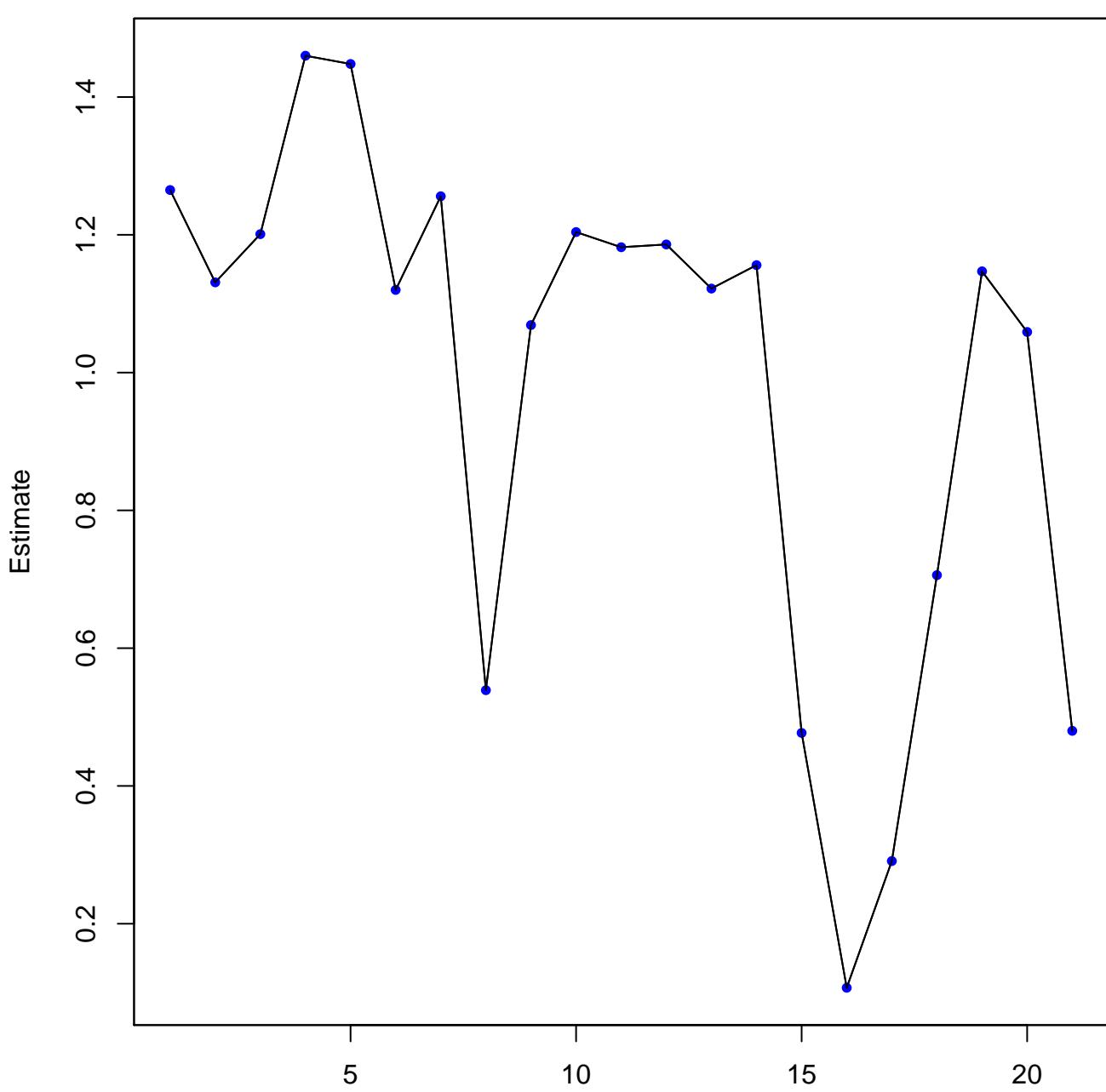




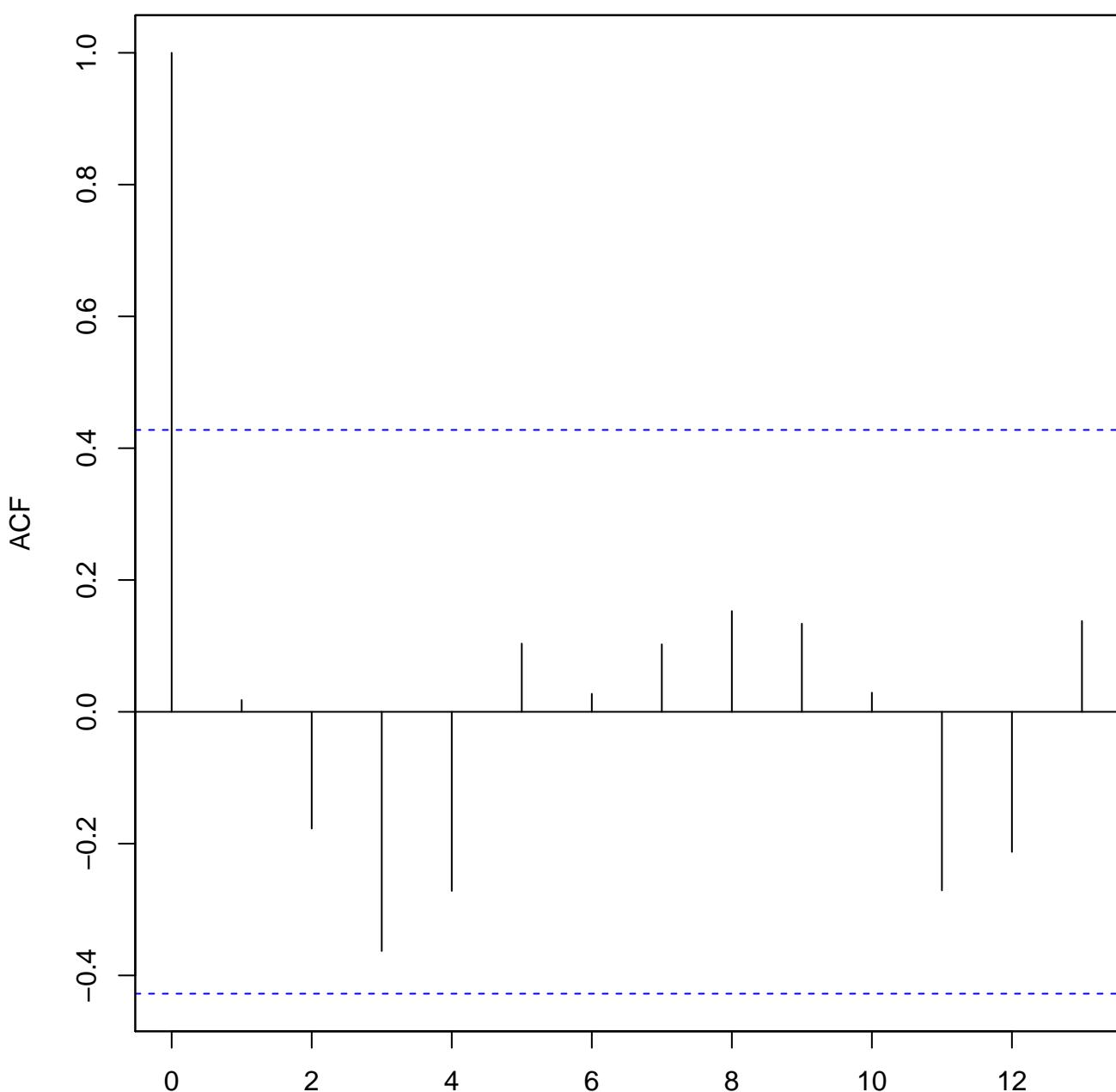
State X.Y1



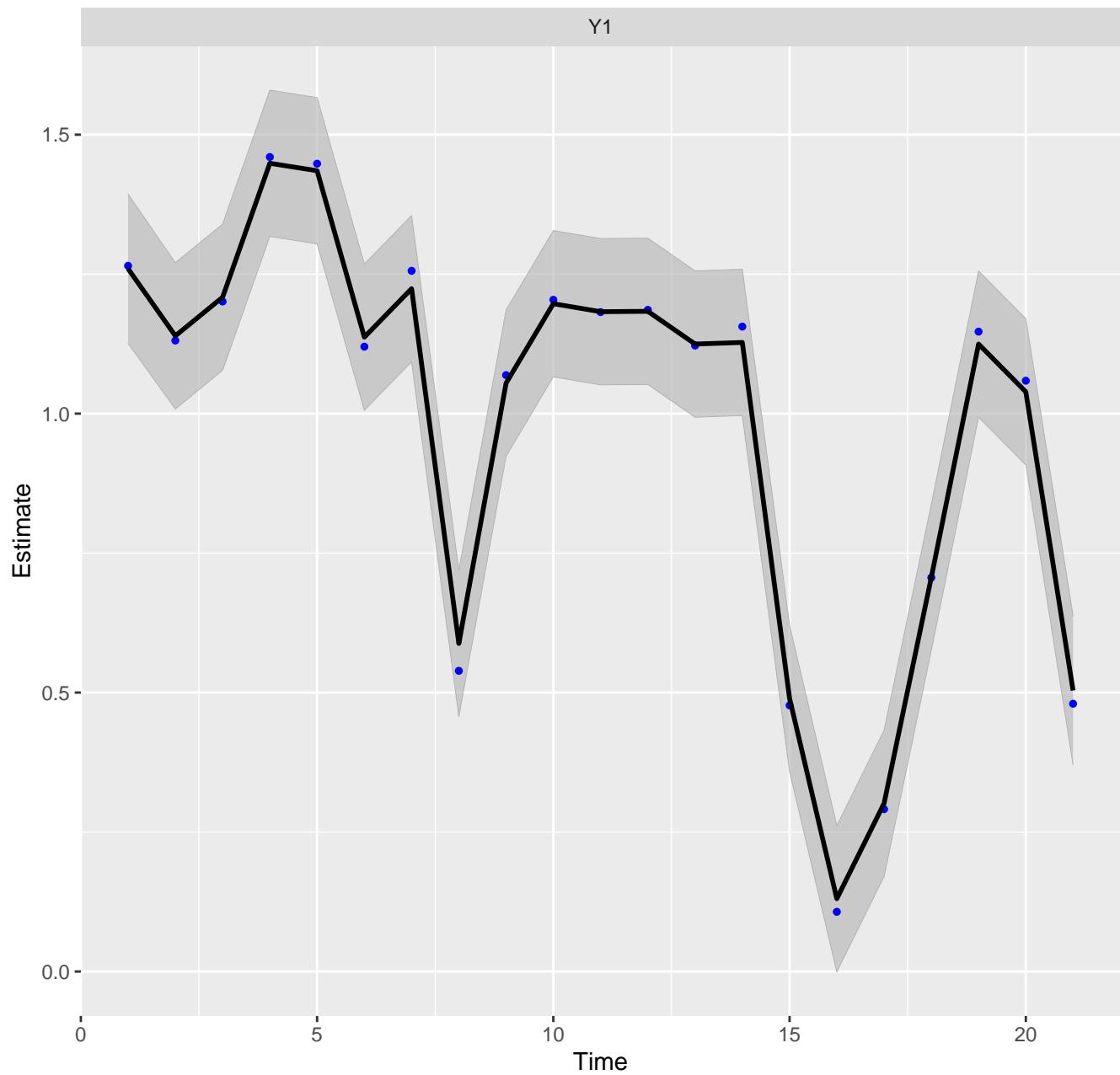
Y1 + CI



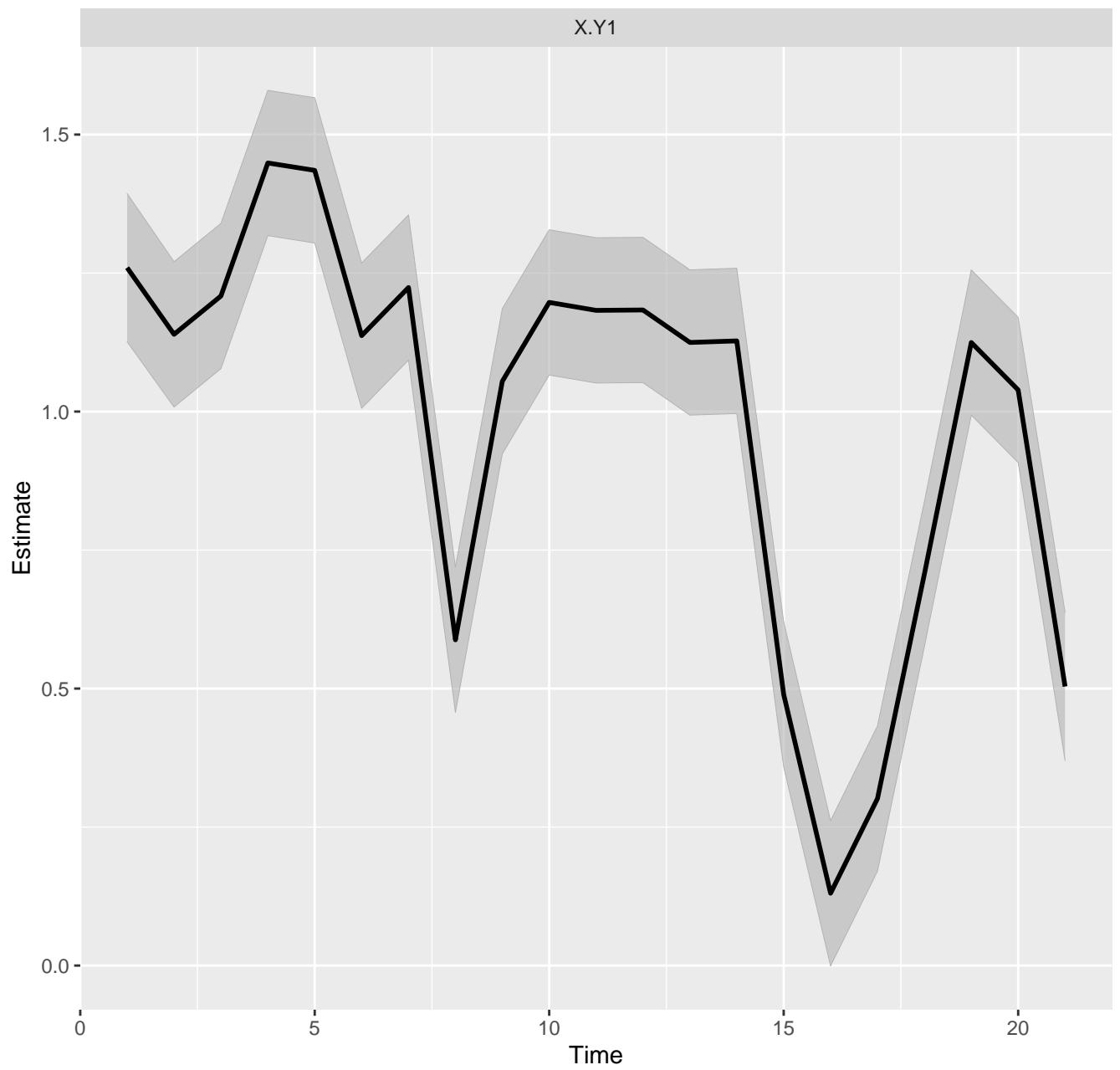
Y1



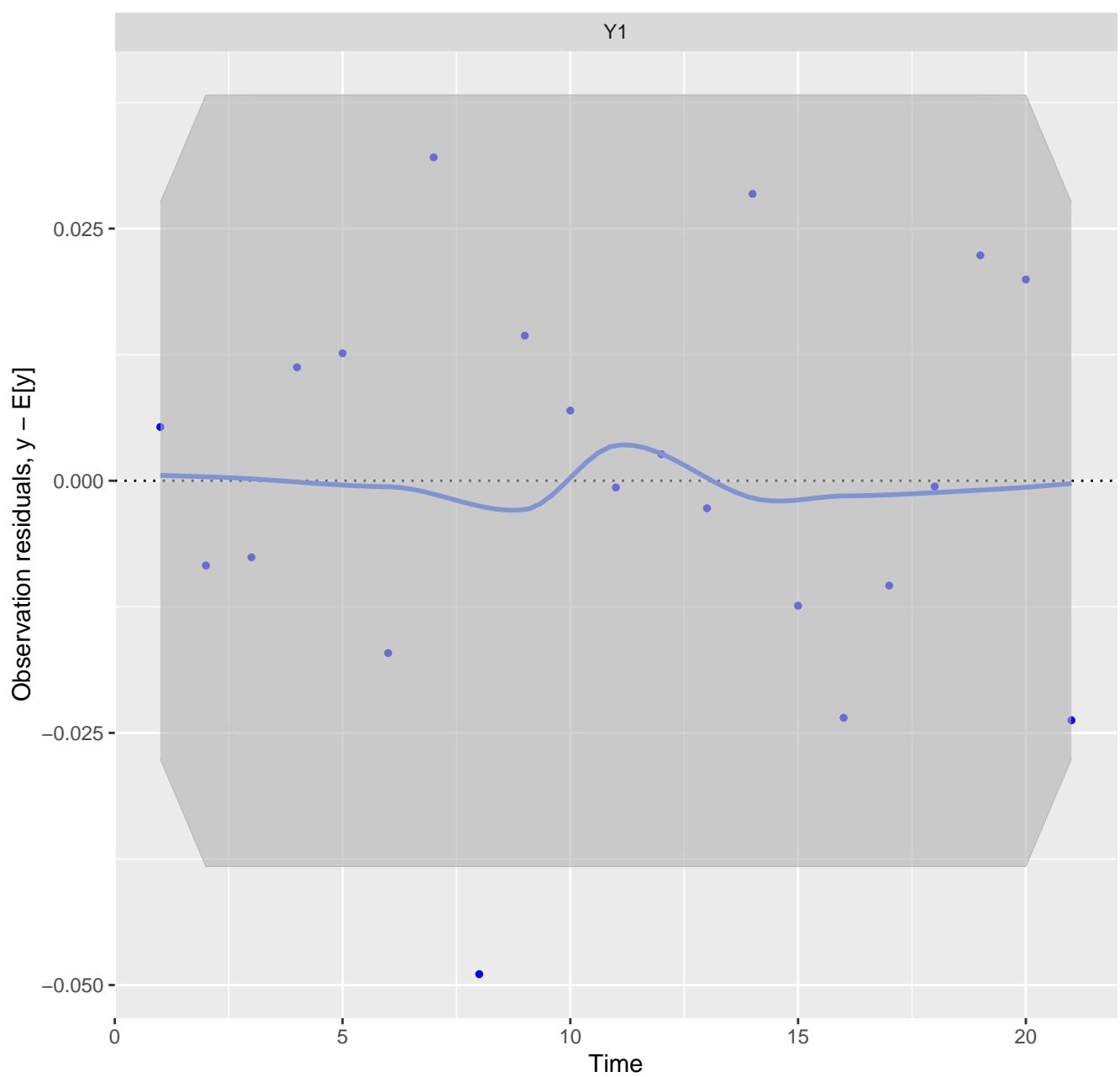
Model fitted Y + CI



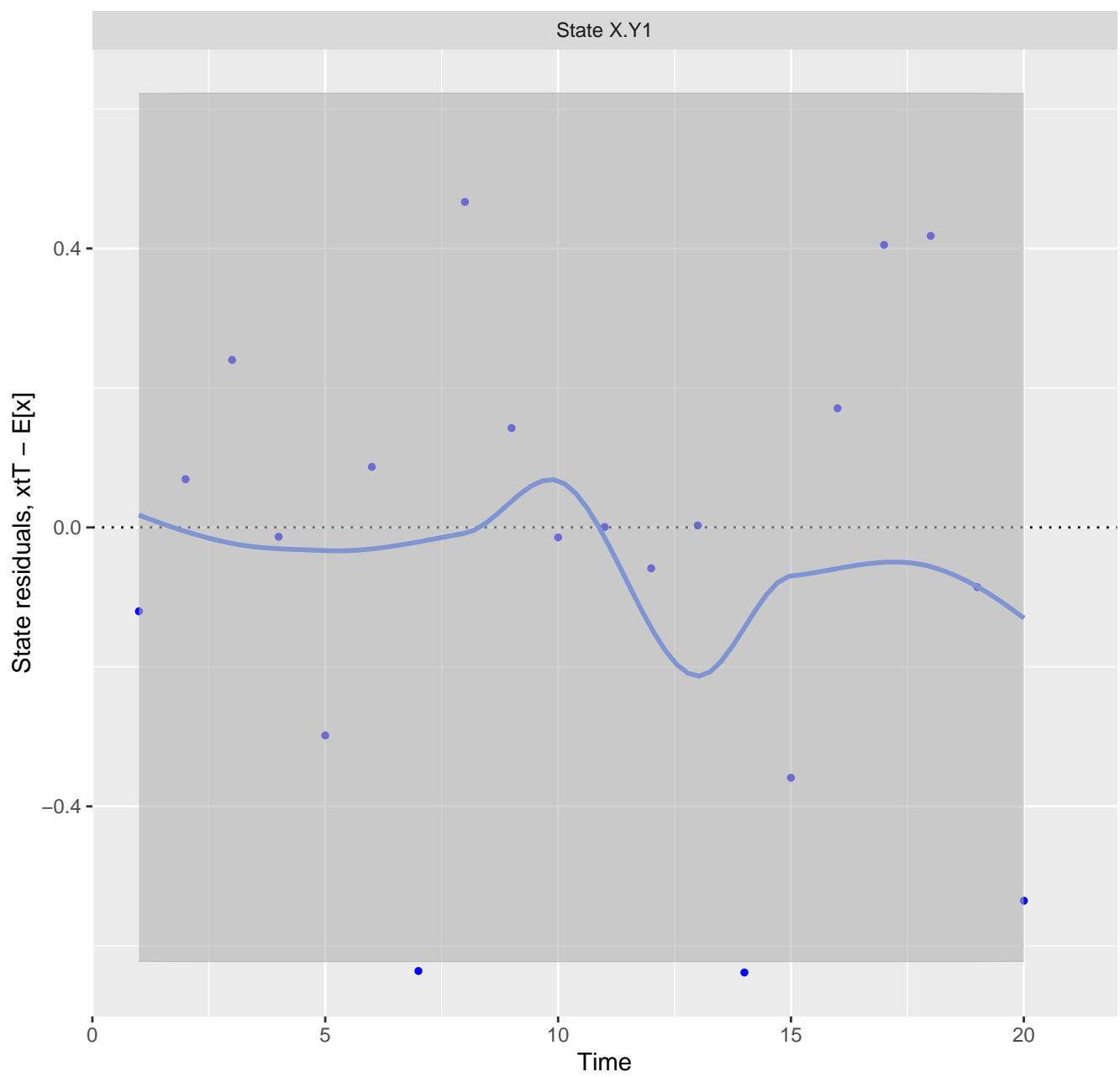
States



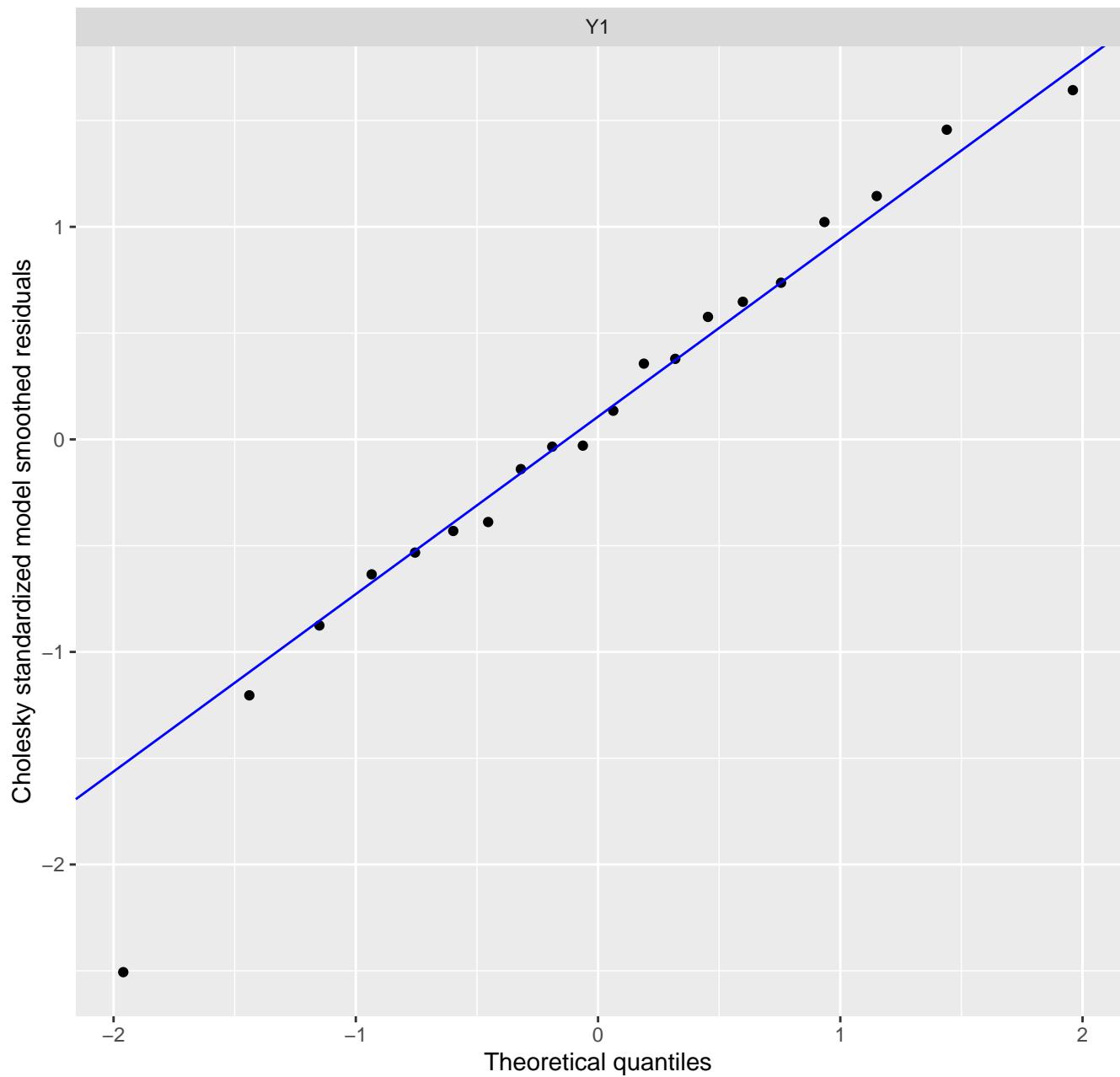
Model residuals



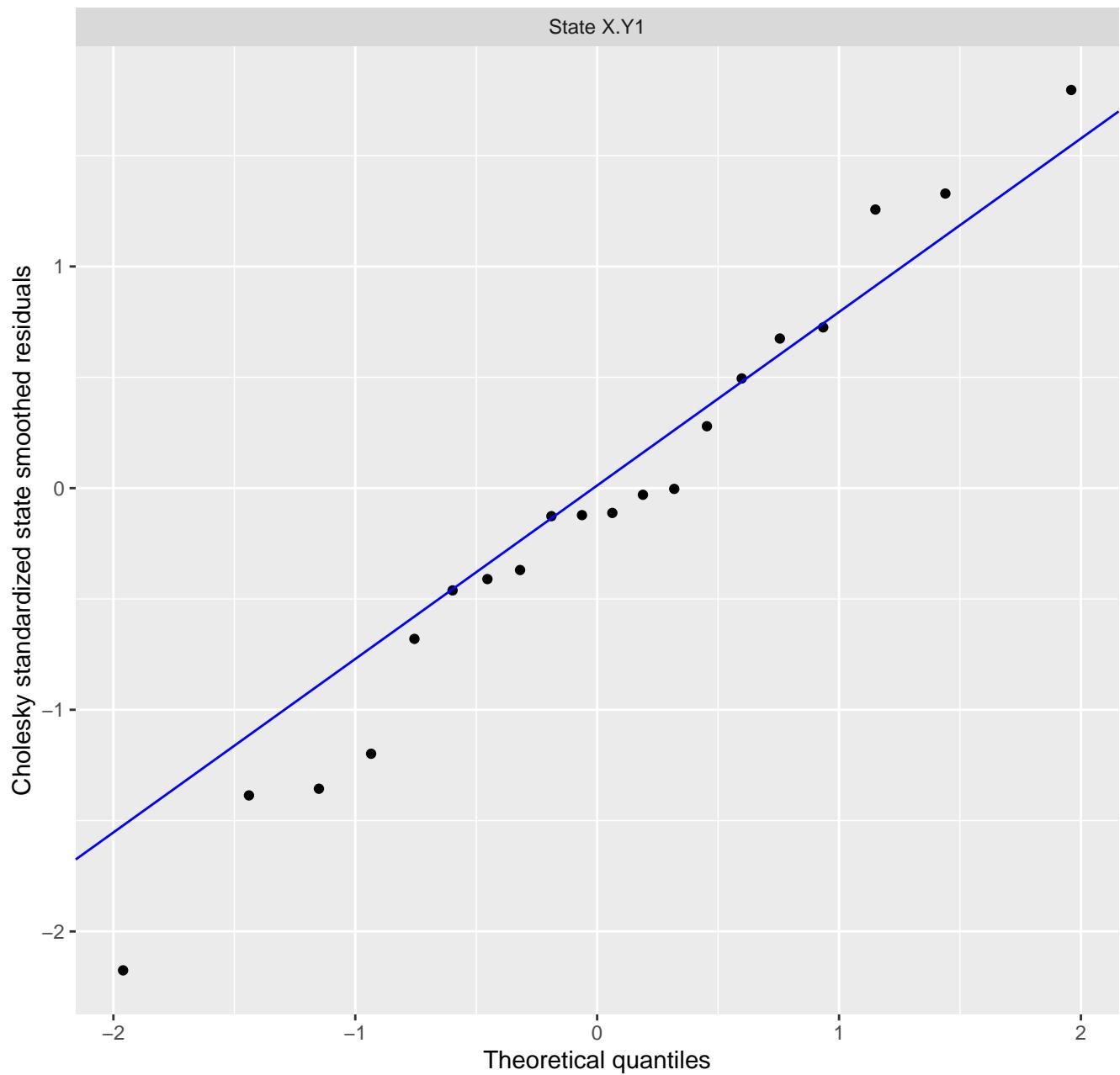
State residuals



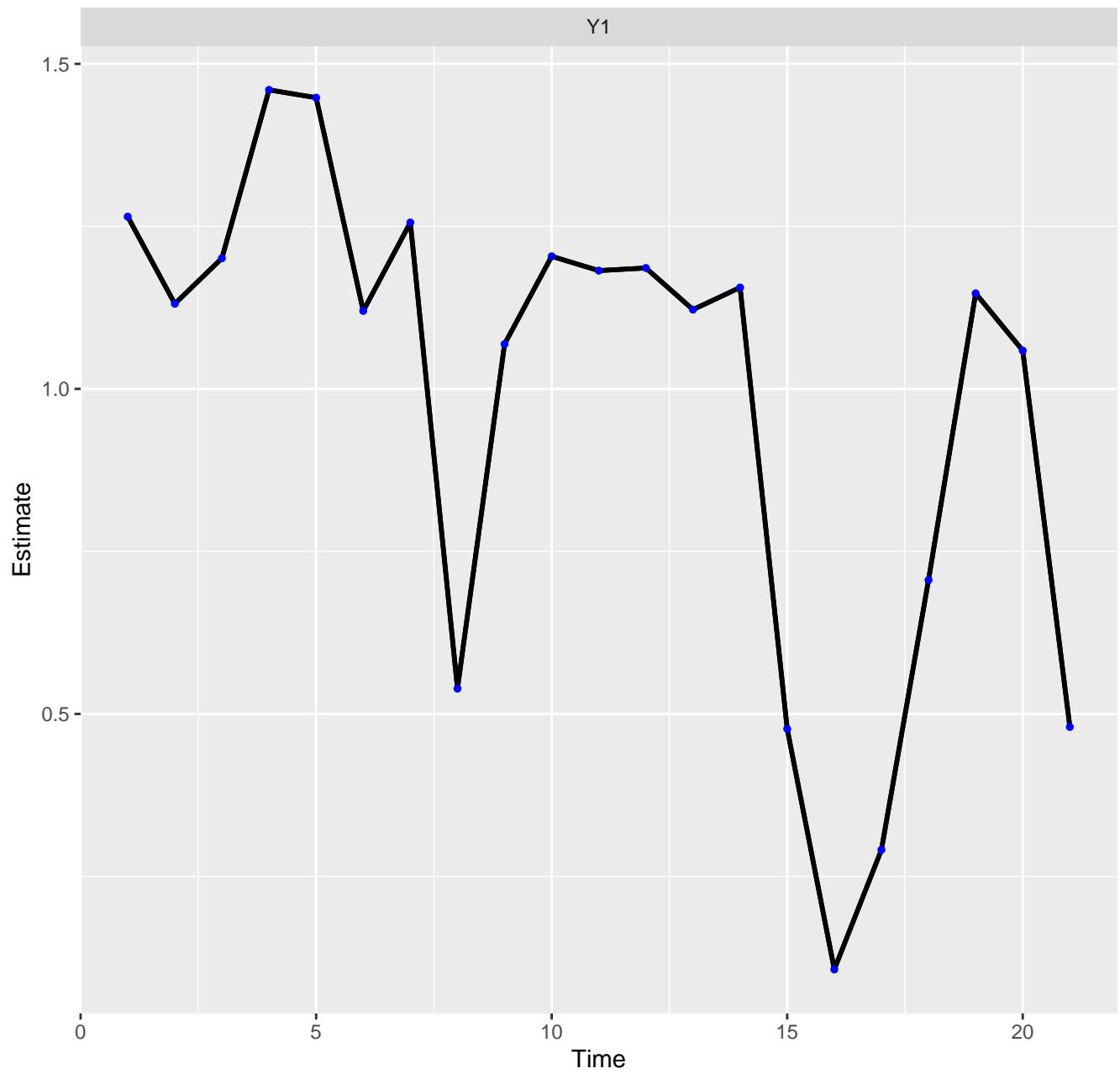
Model residuals normality test



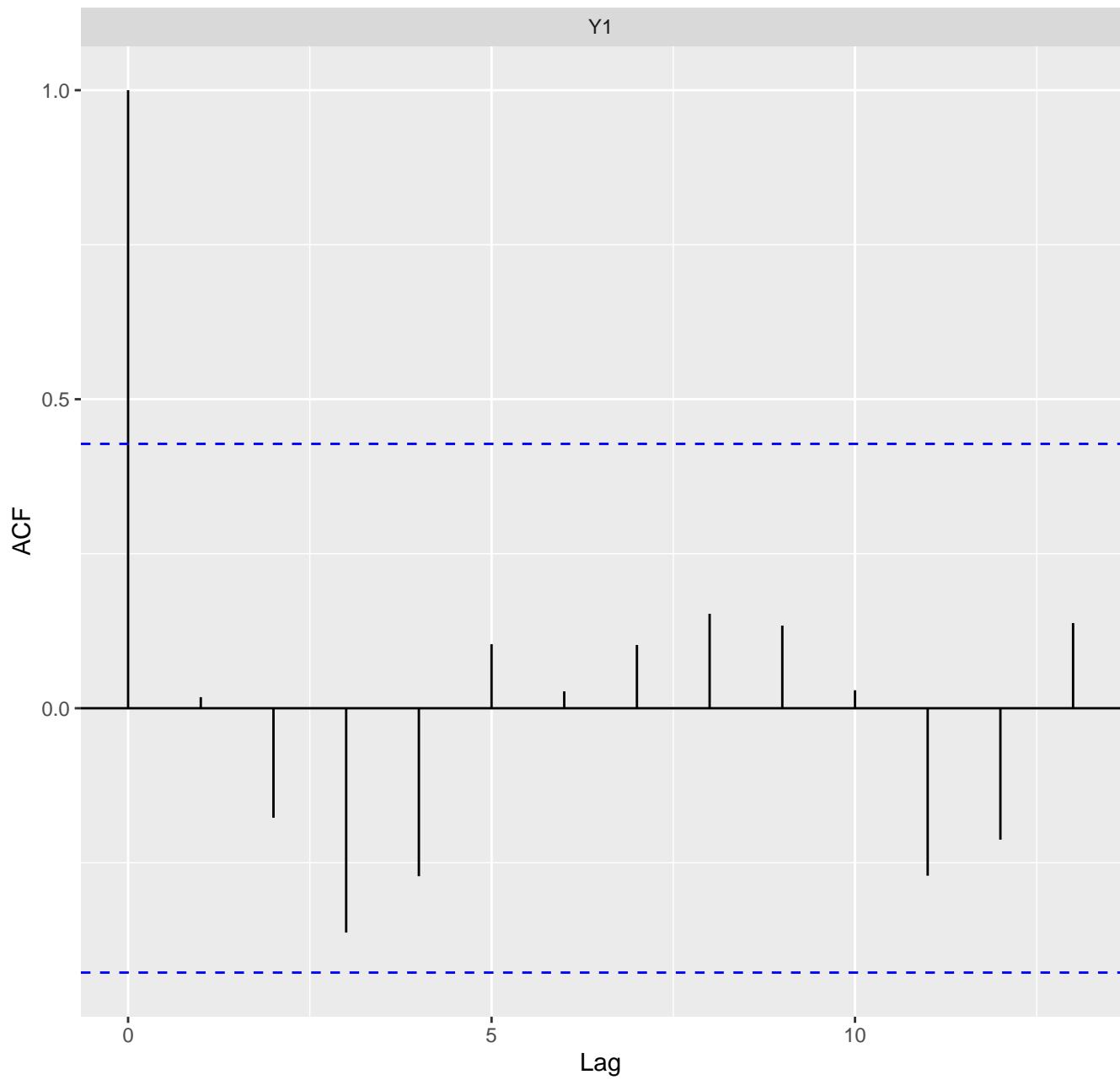
State residuals normality test



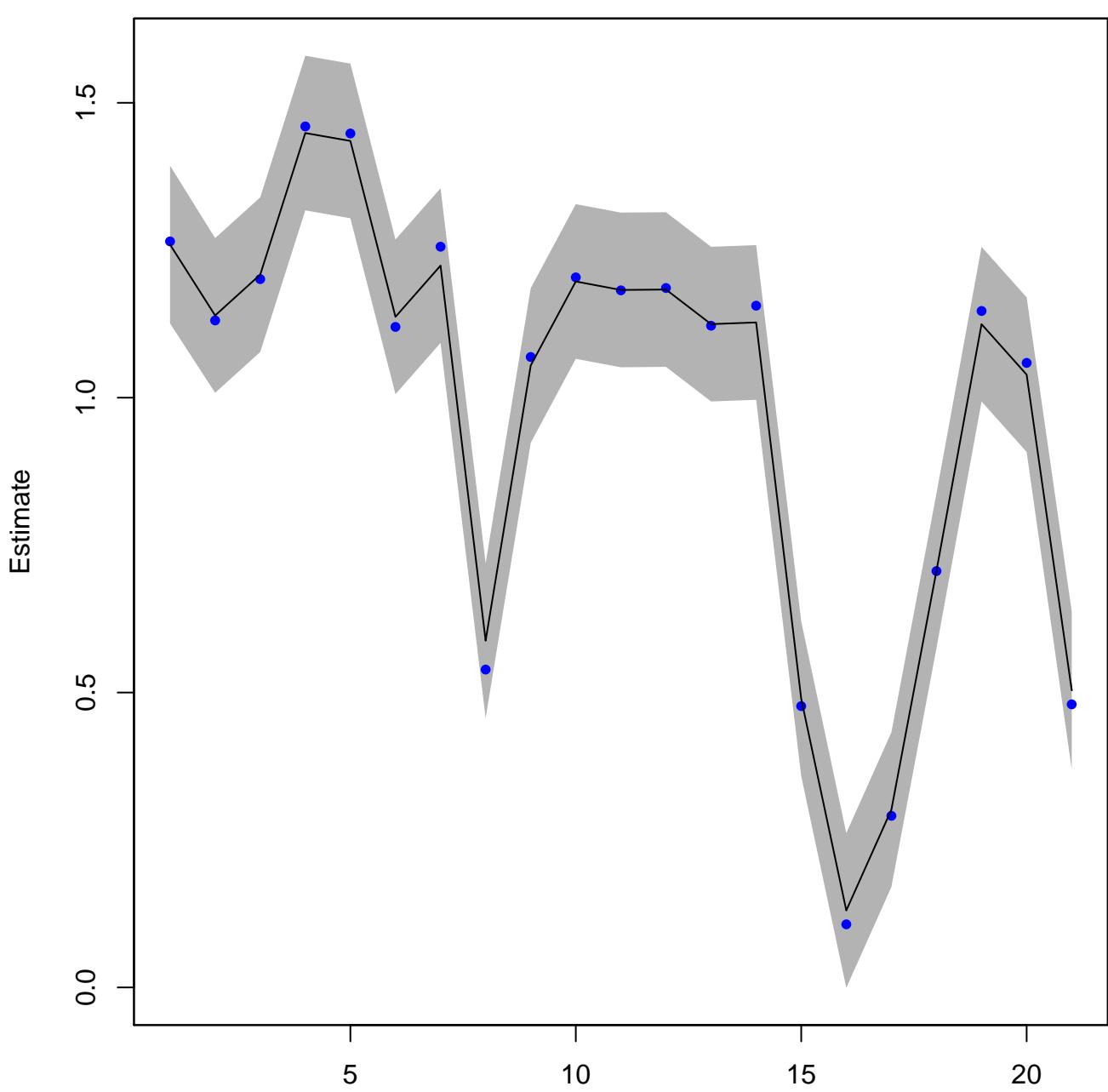
Expected value of Y conditioned on data



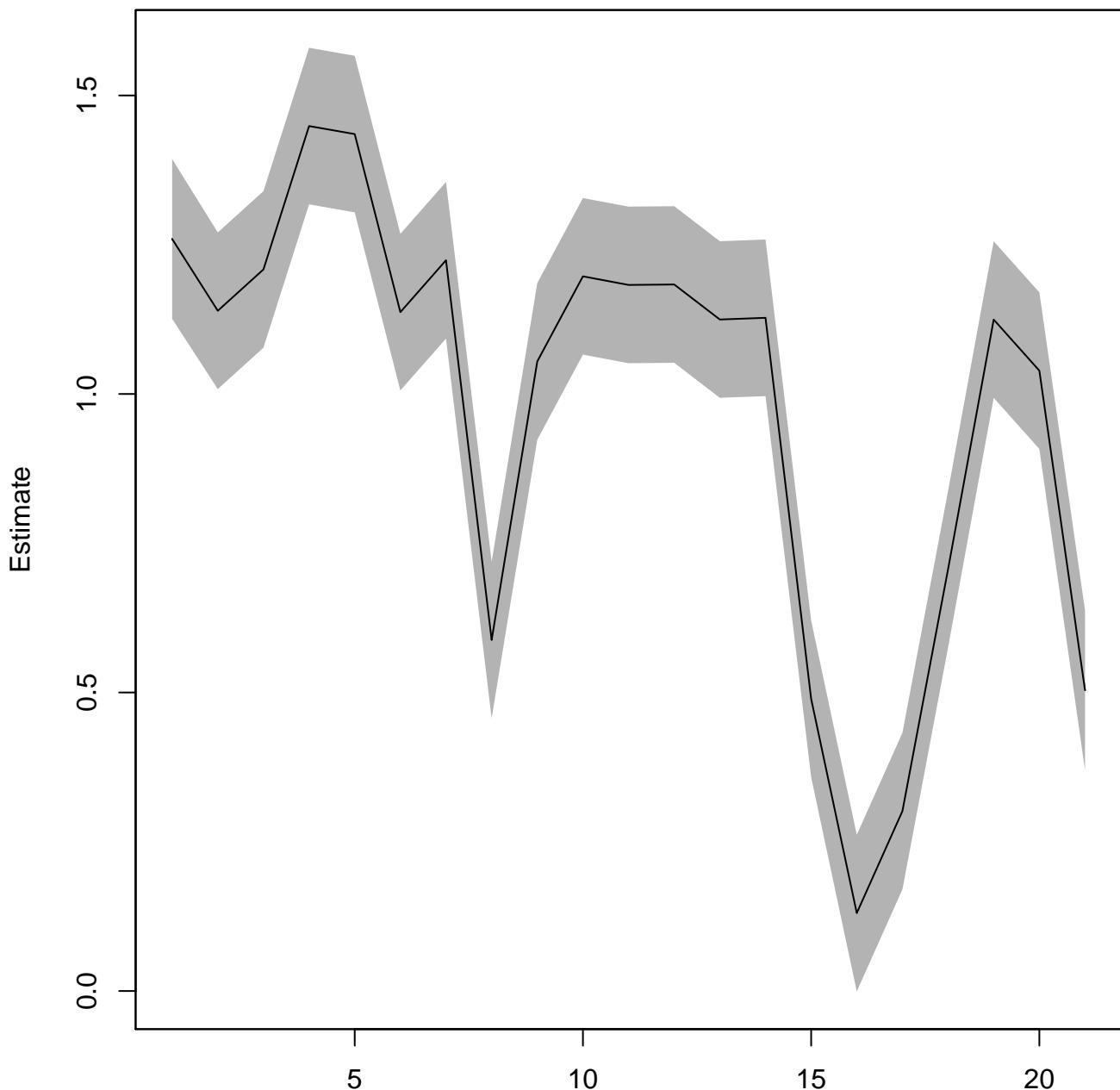
Model innovations residuals ACF



$Y_1 + CI$

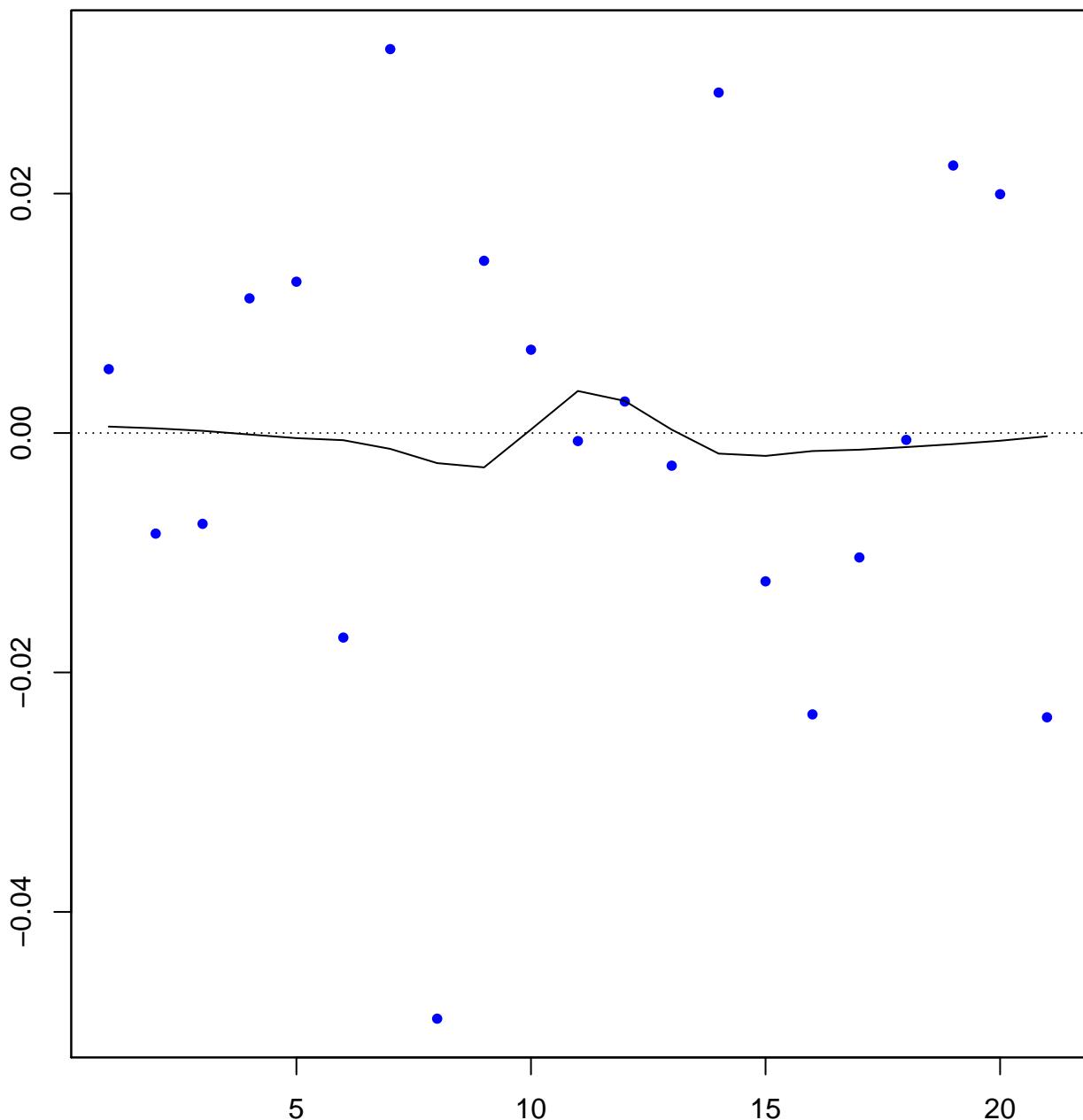


State X.Y1

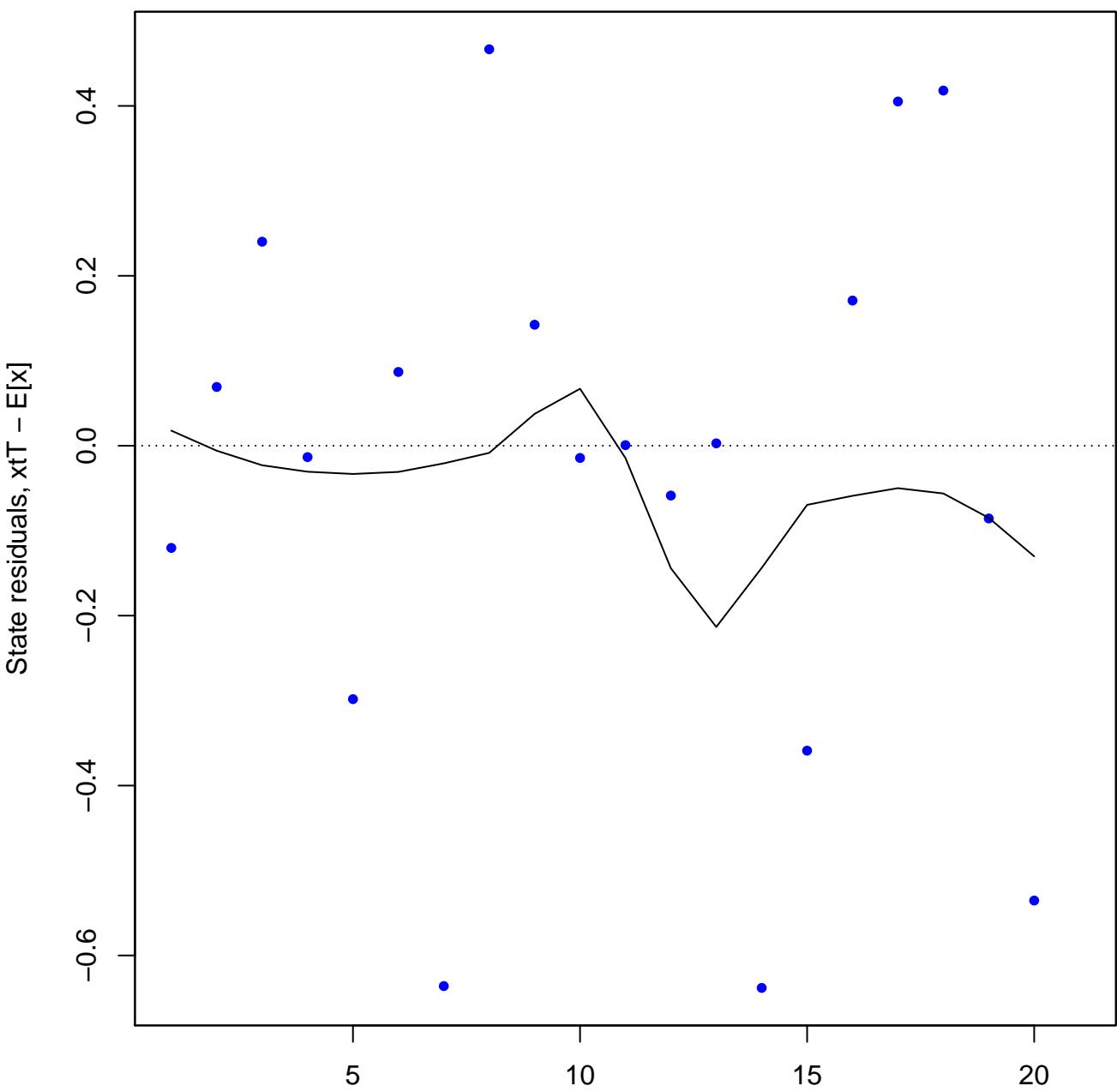


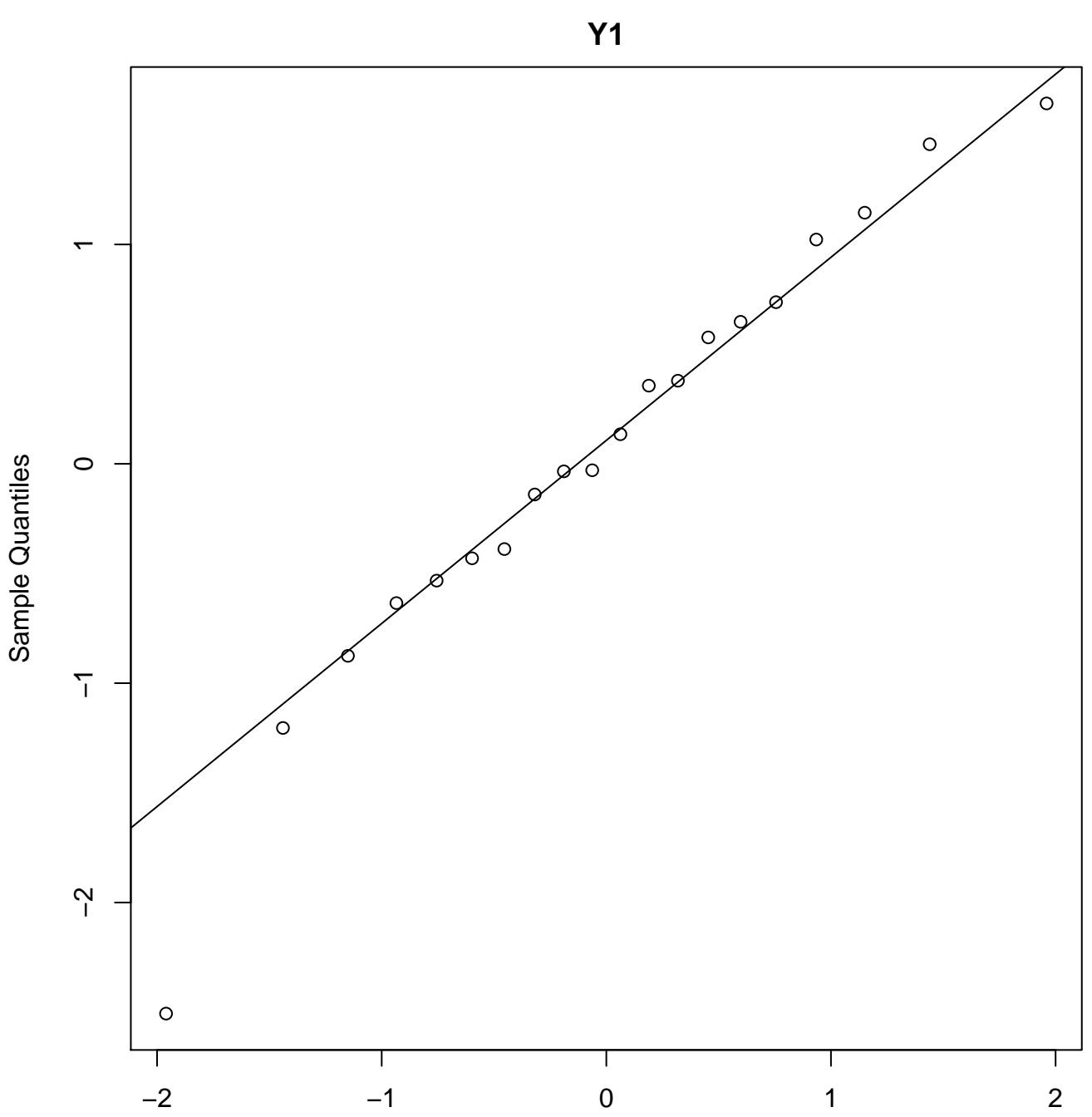
Y1

Observation residuals, $y - E[y]$

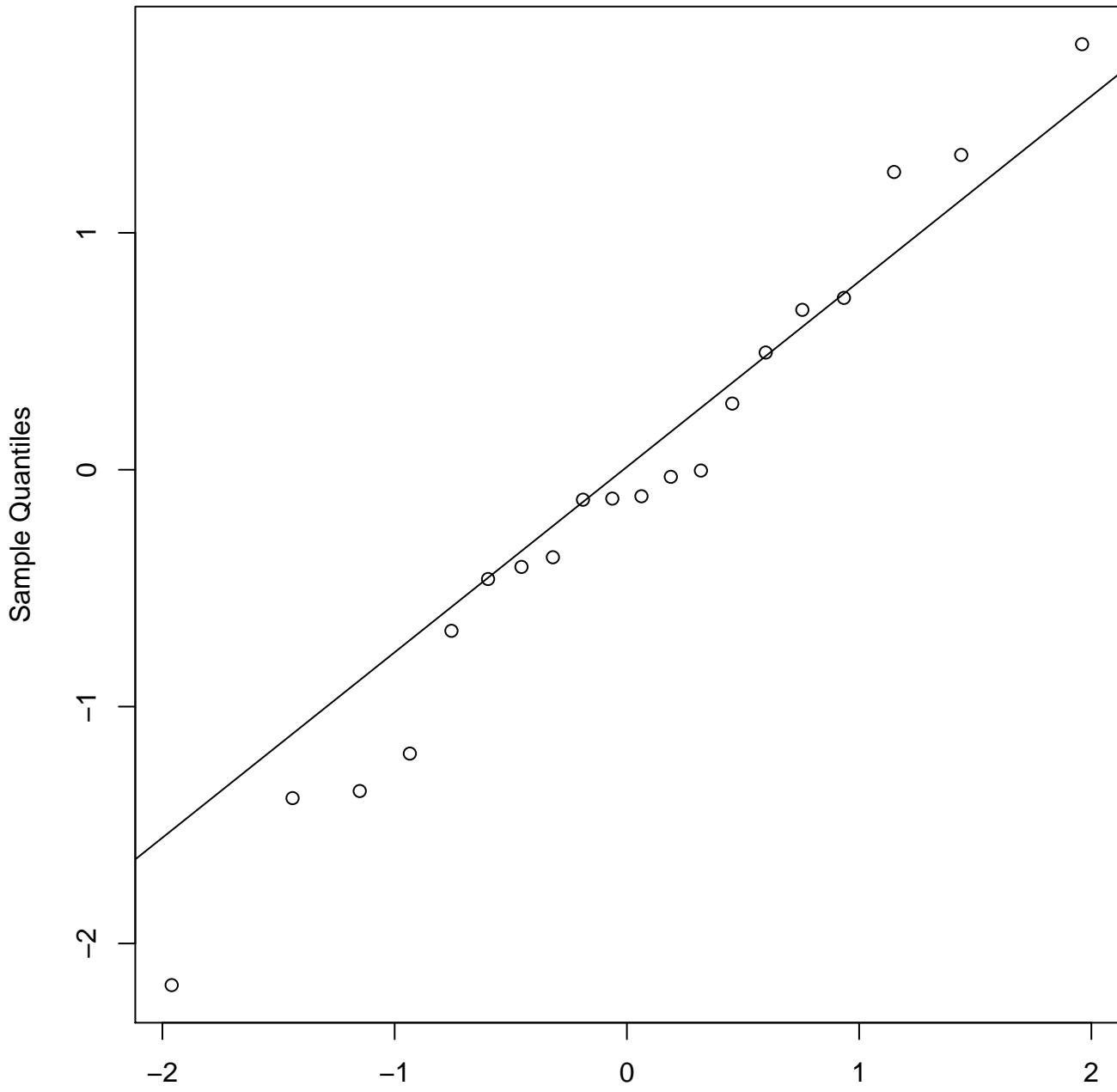


State X.Y1

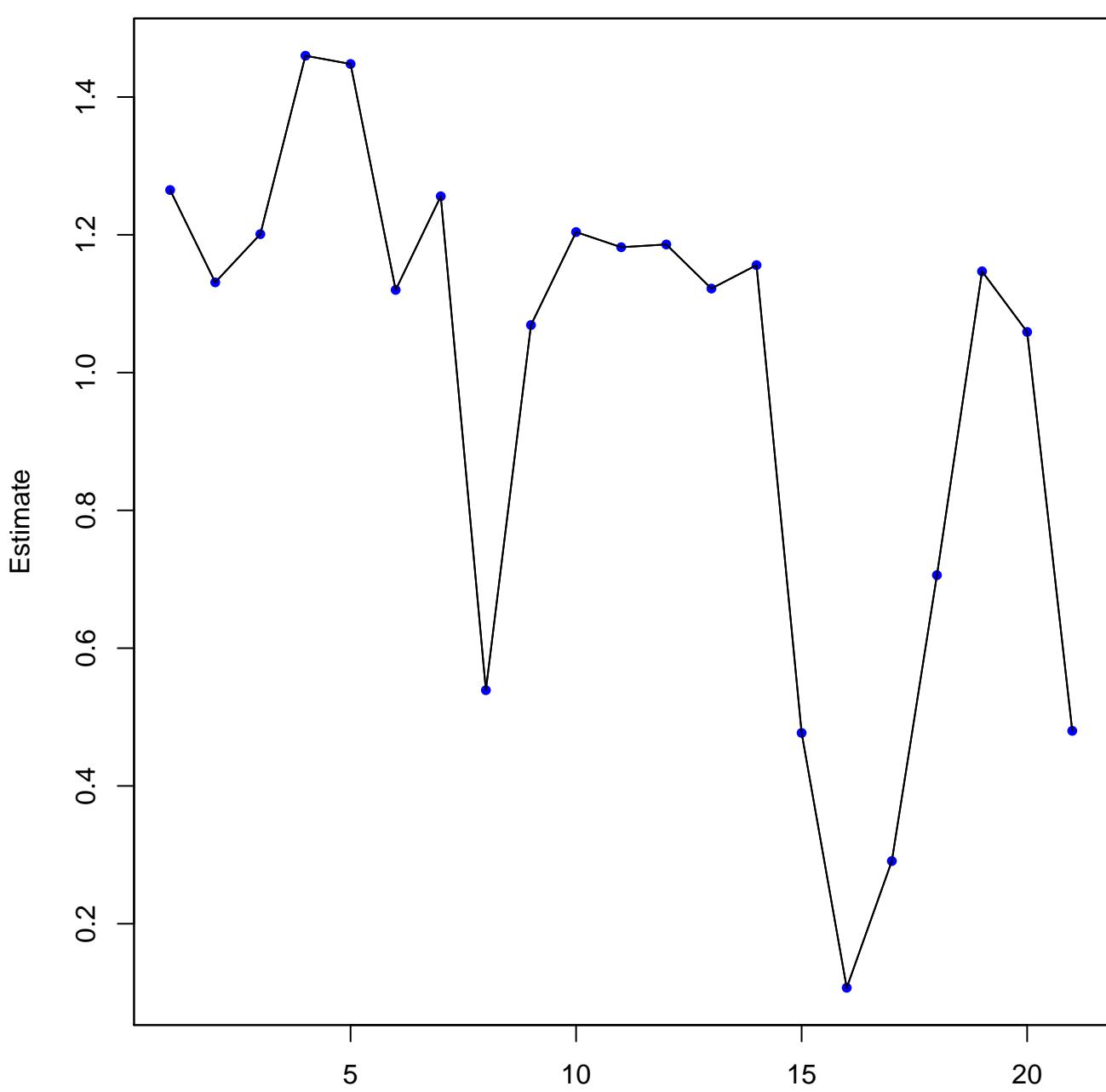




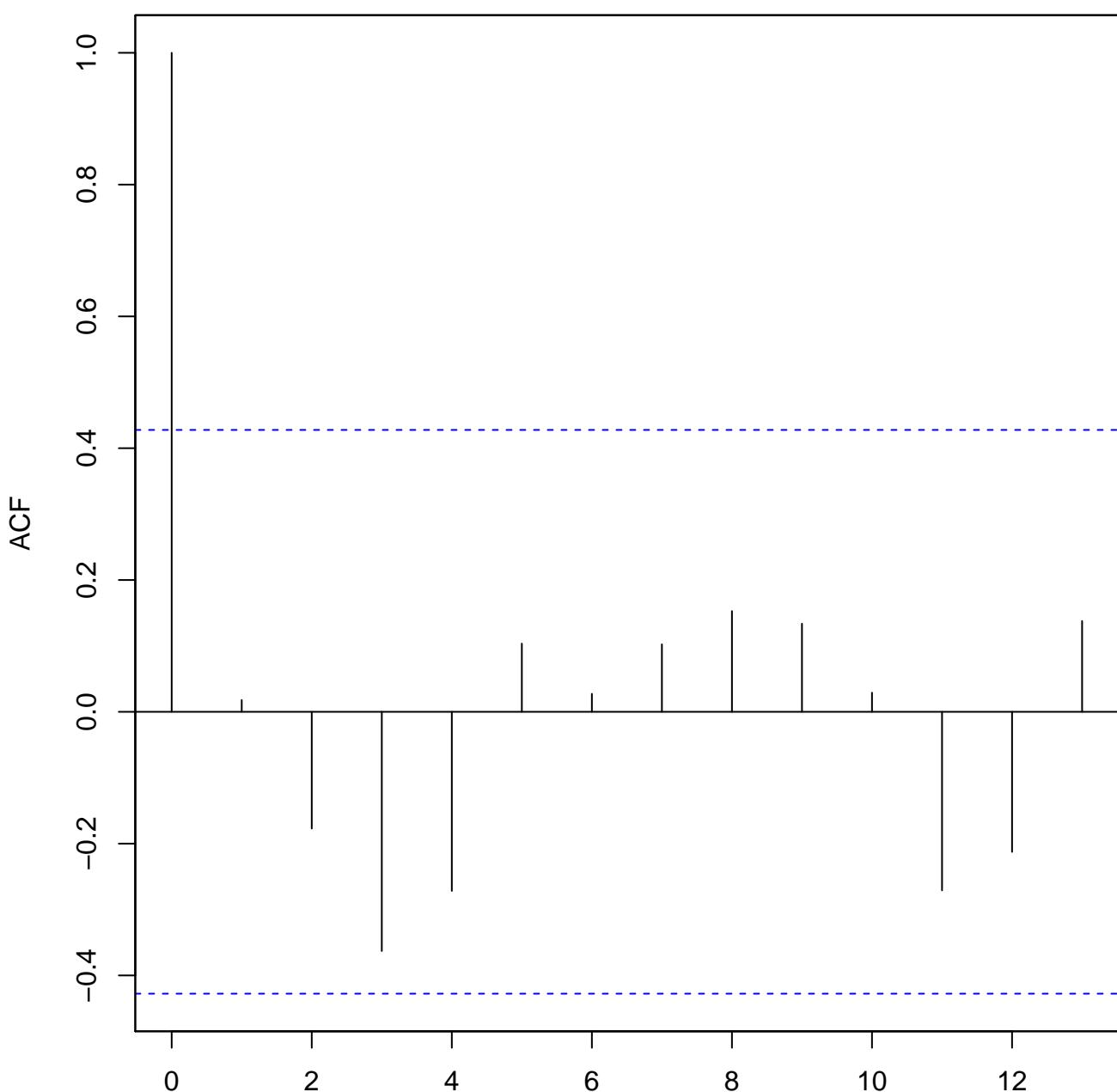
State X.Y1



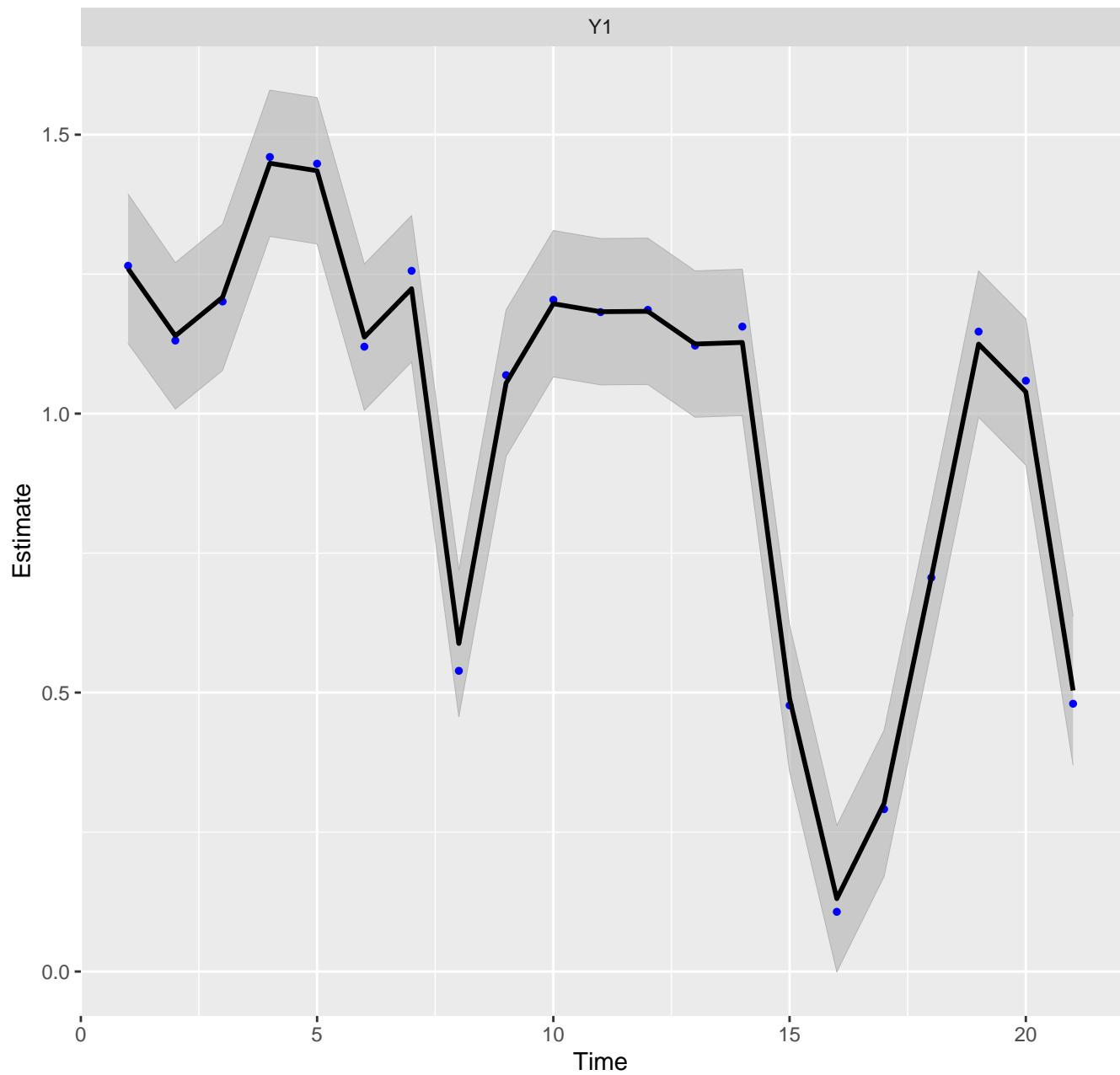
Y1 + CI



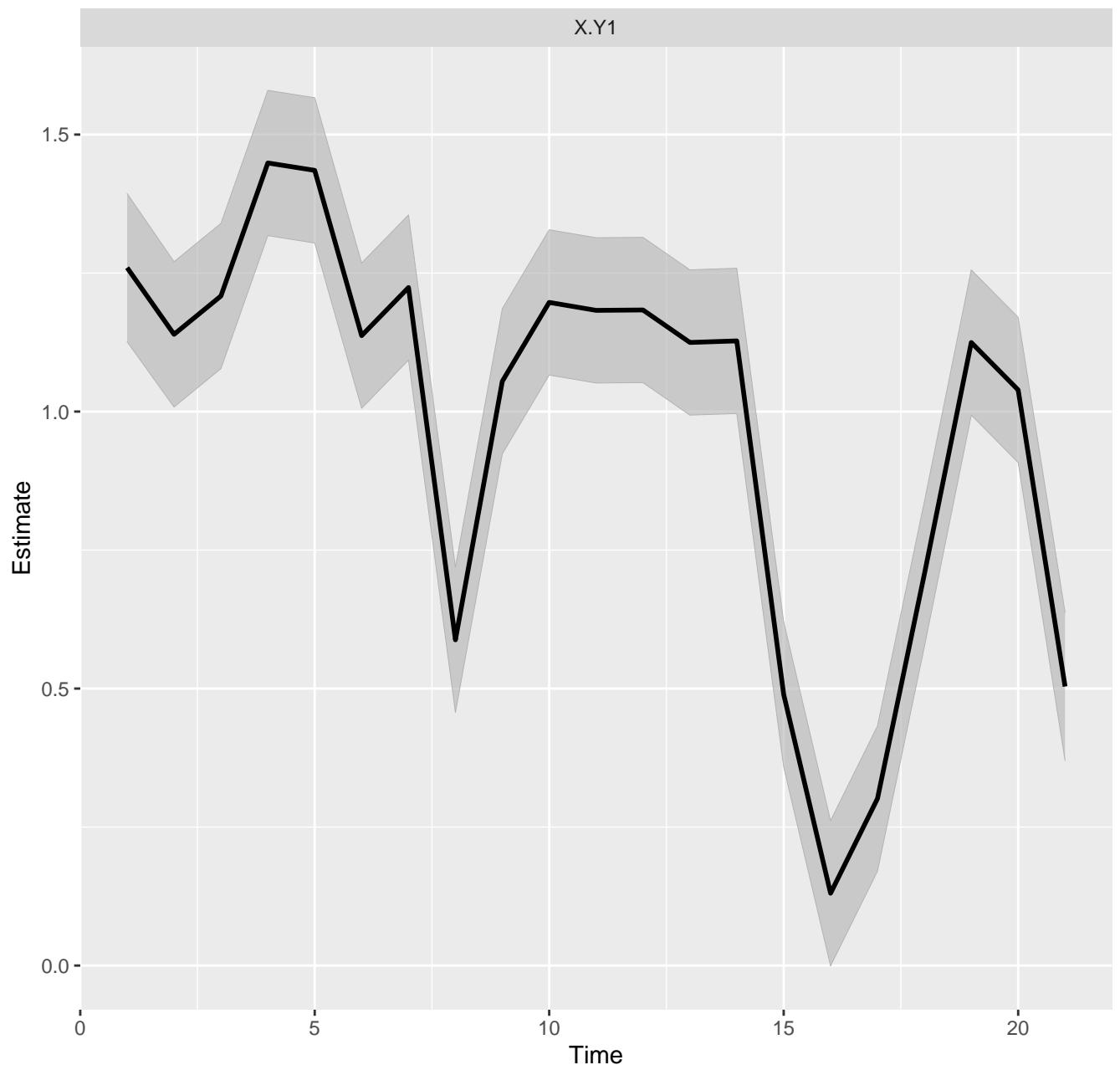
Y1



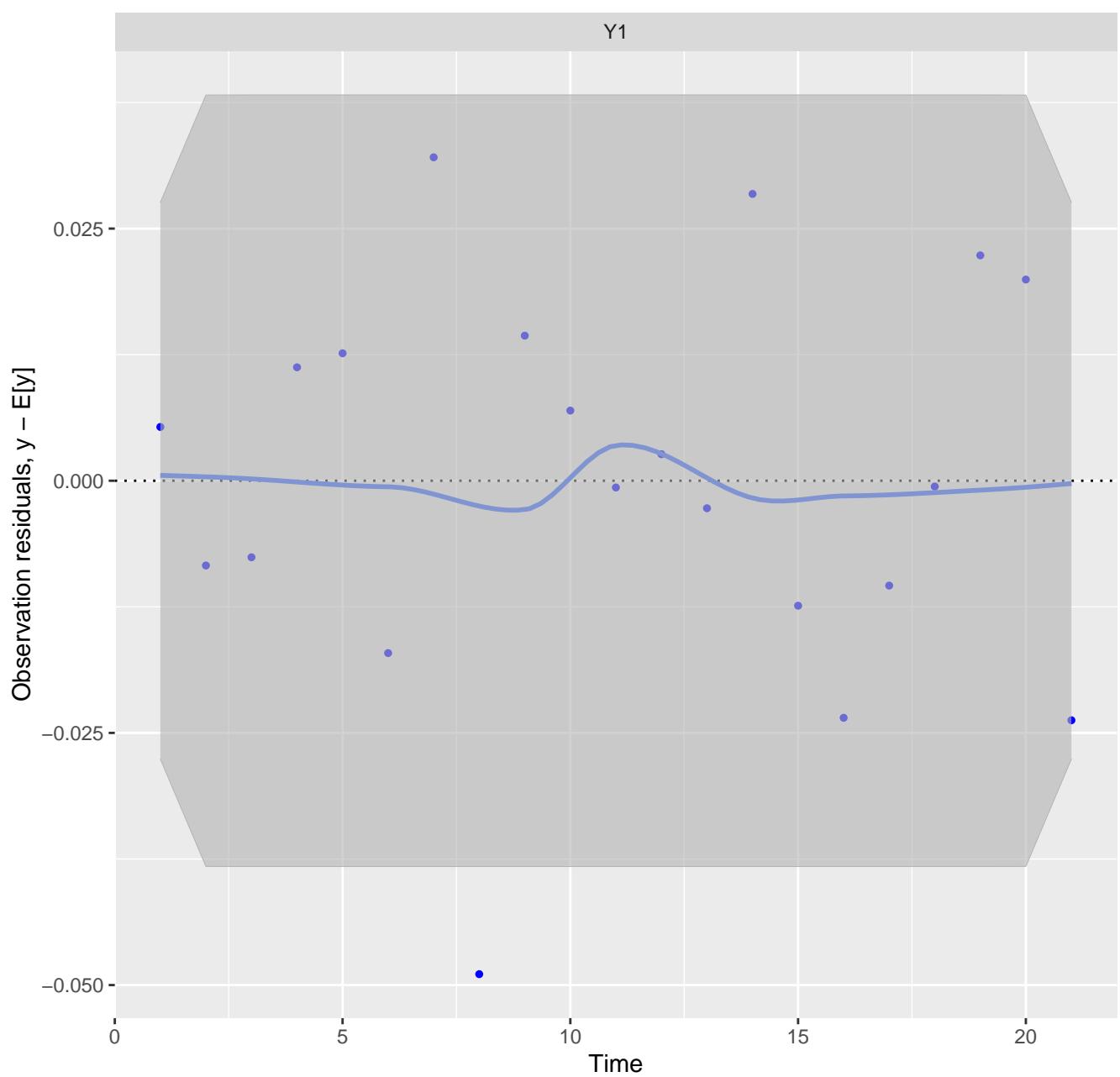
Model fitted Y + CI



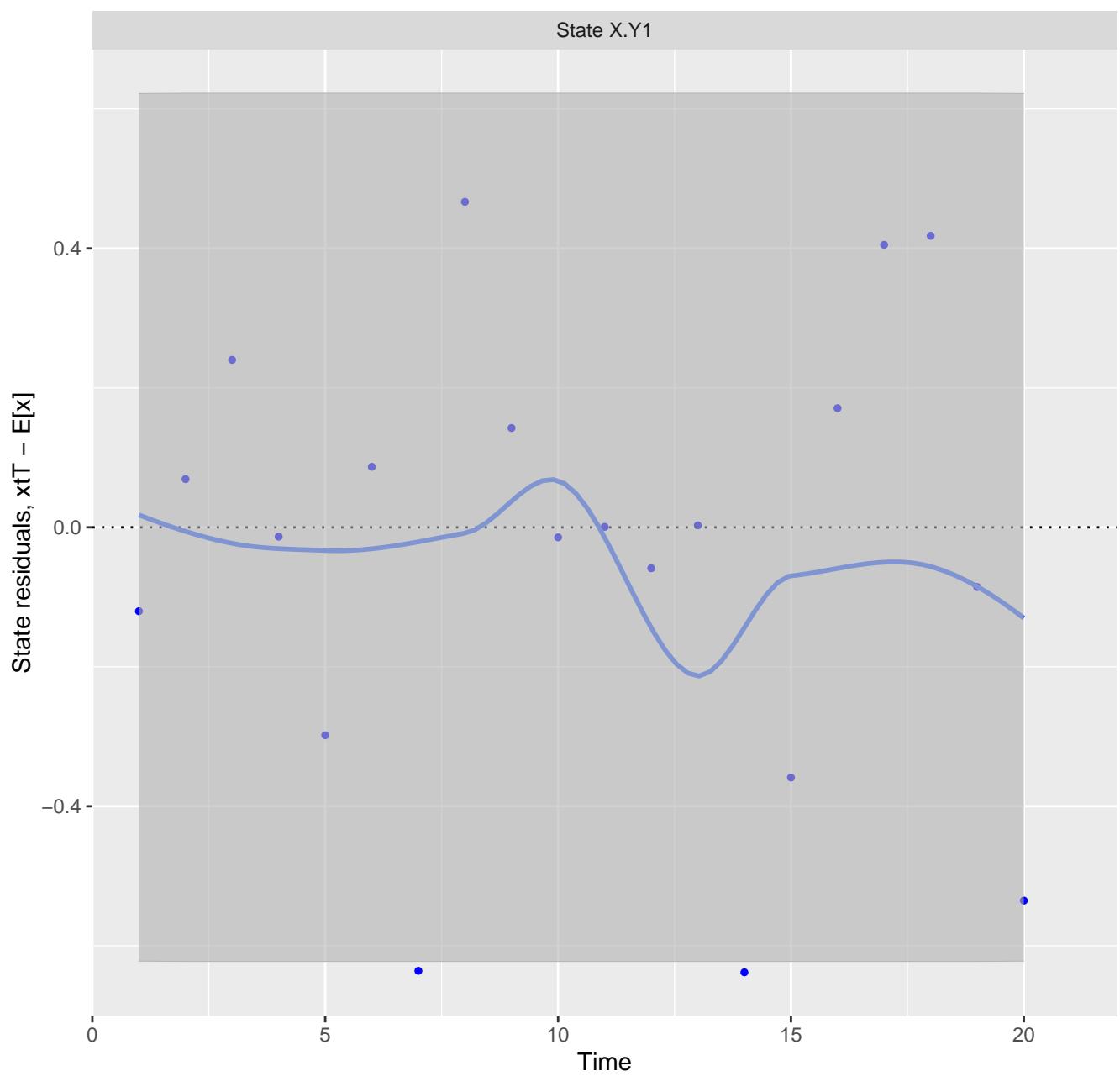
States



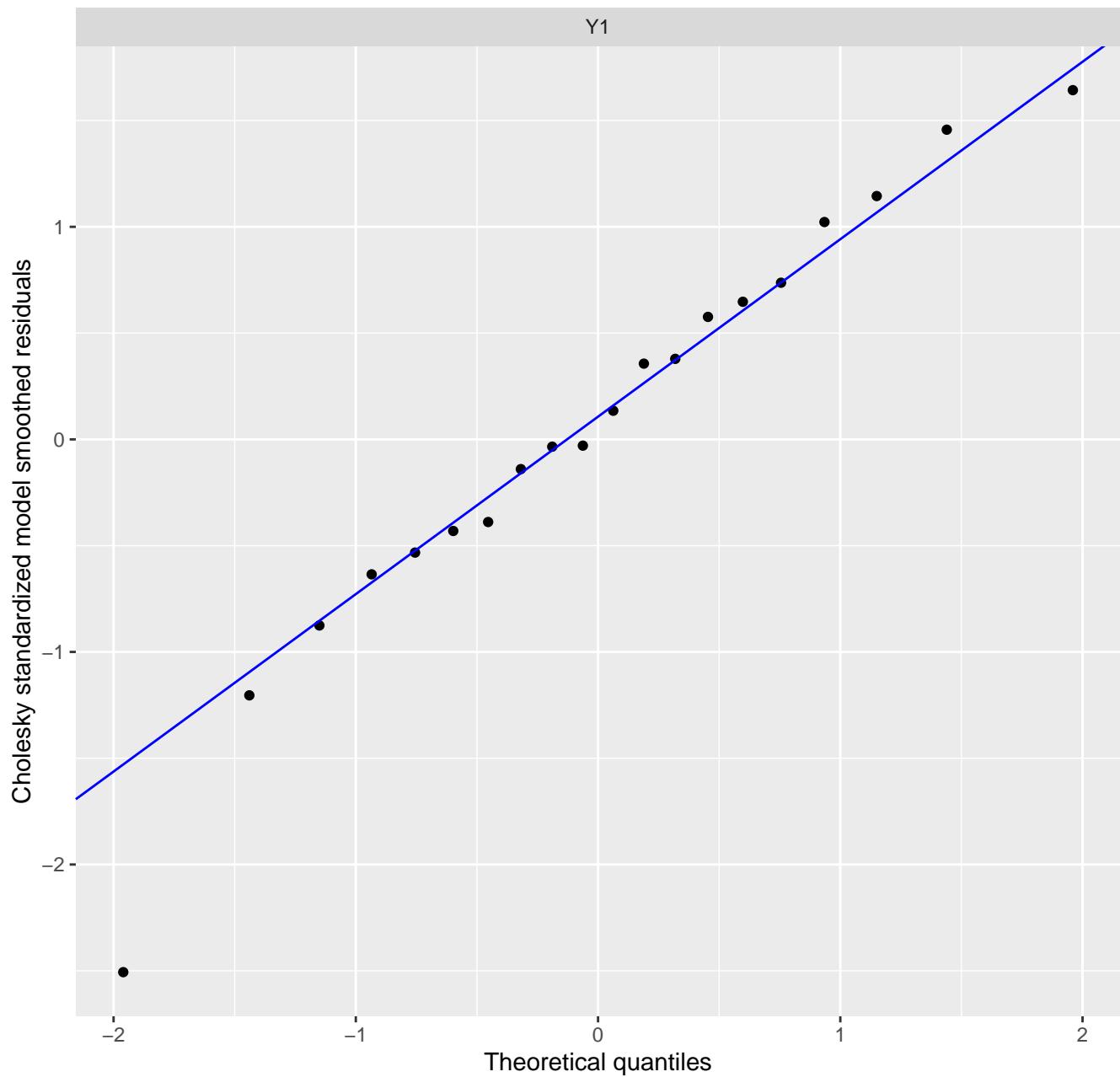
Model residuals



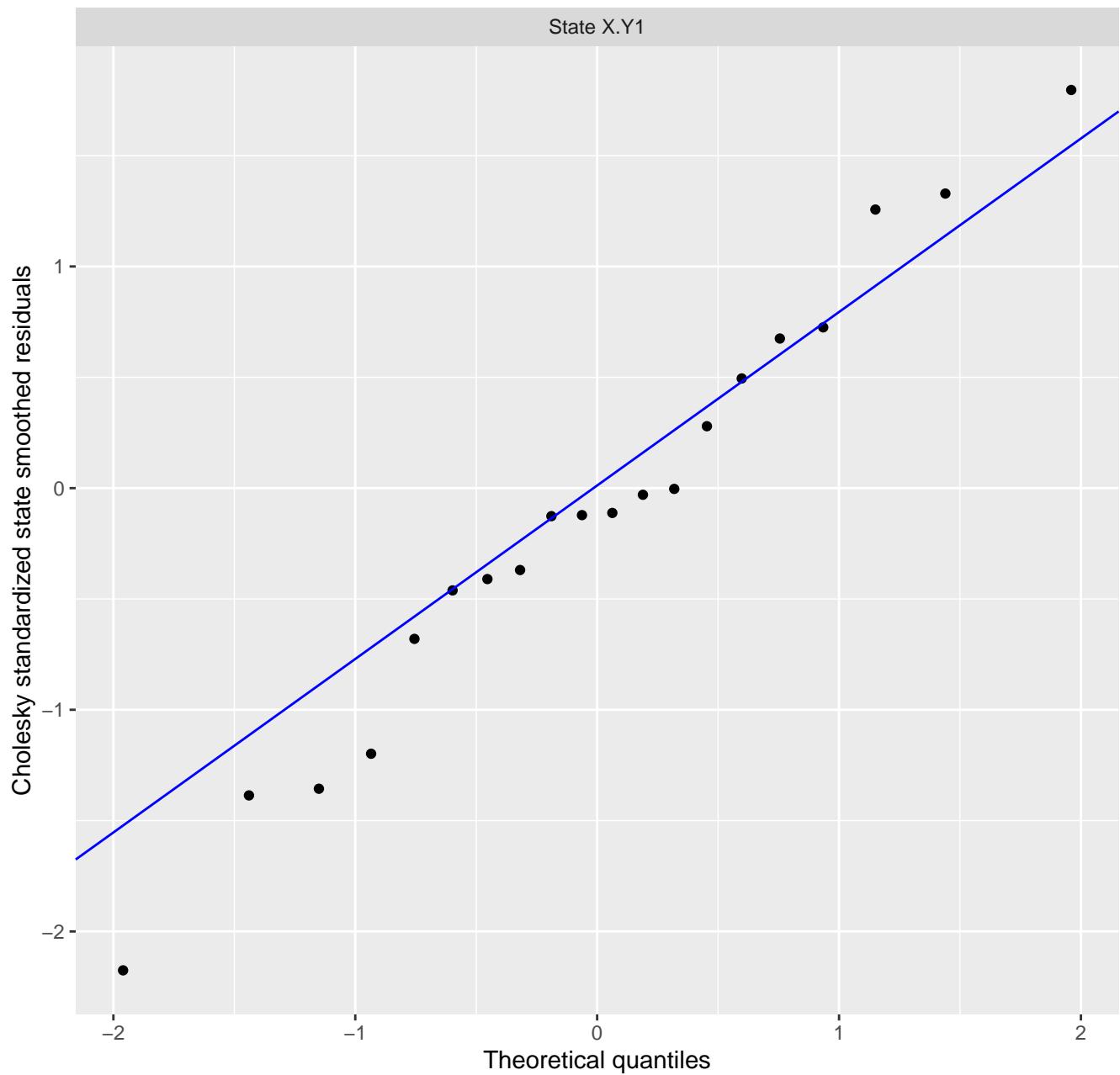
State residuals



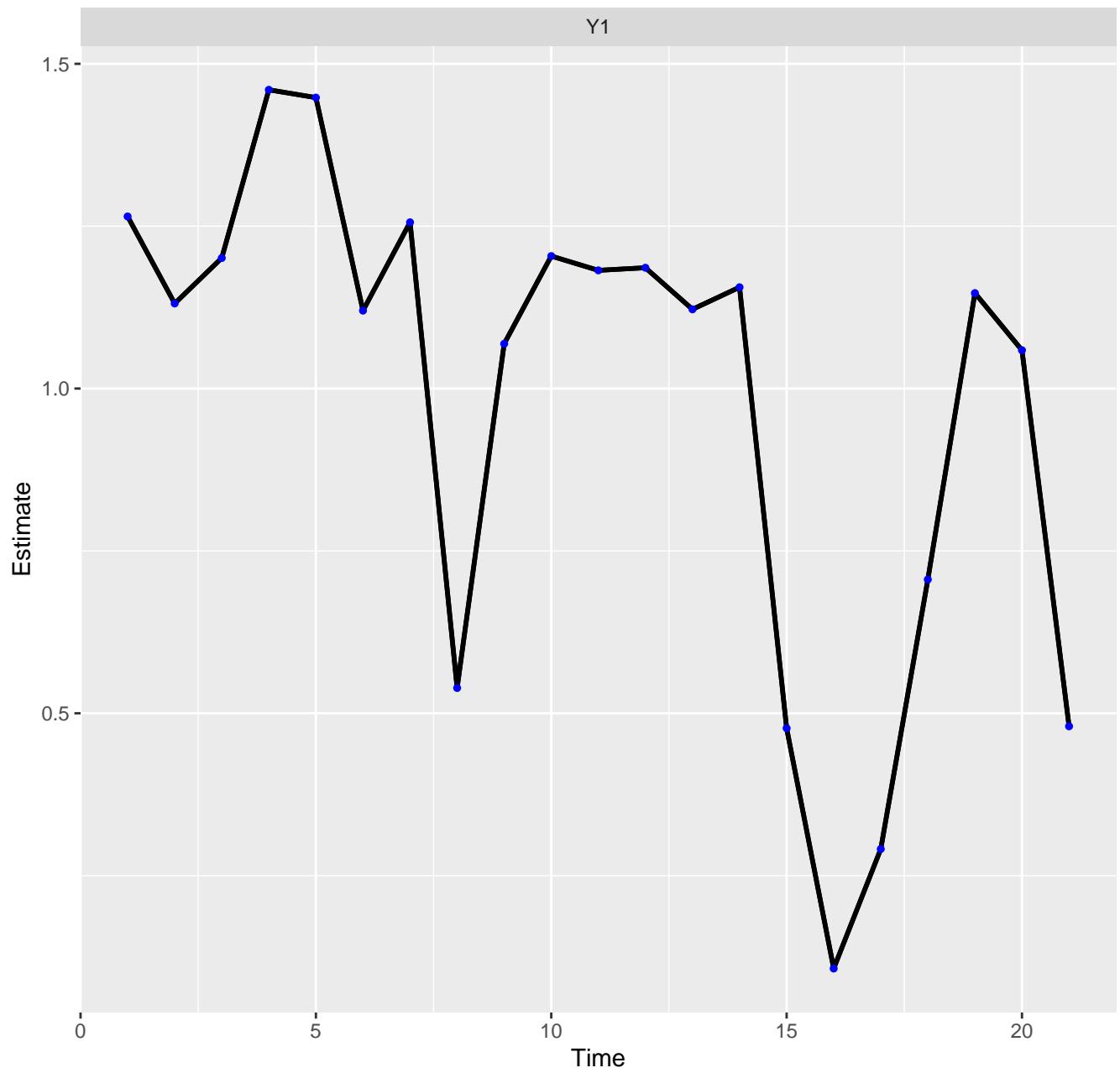
Model residuals normality test



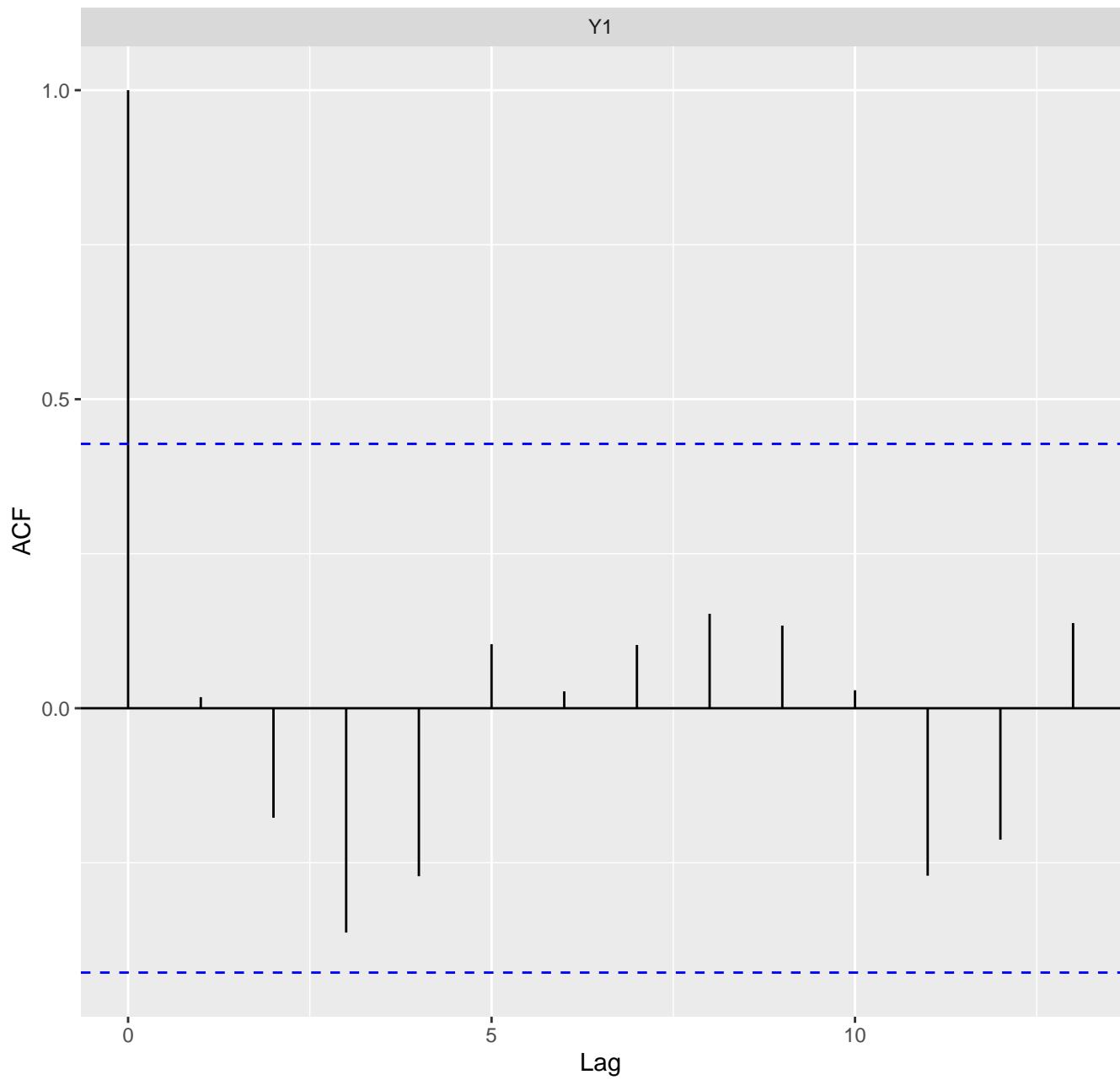
State residuals normality test



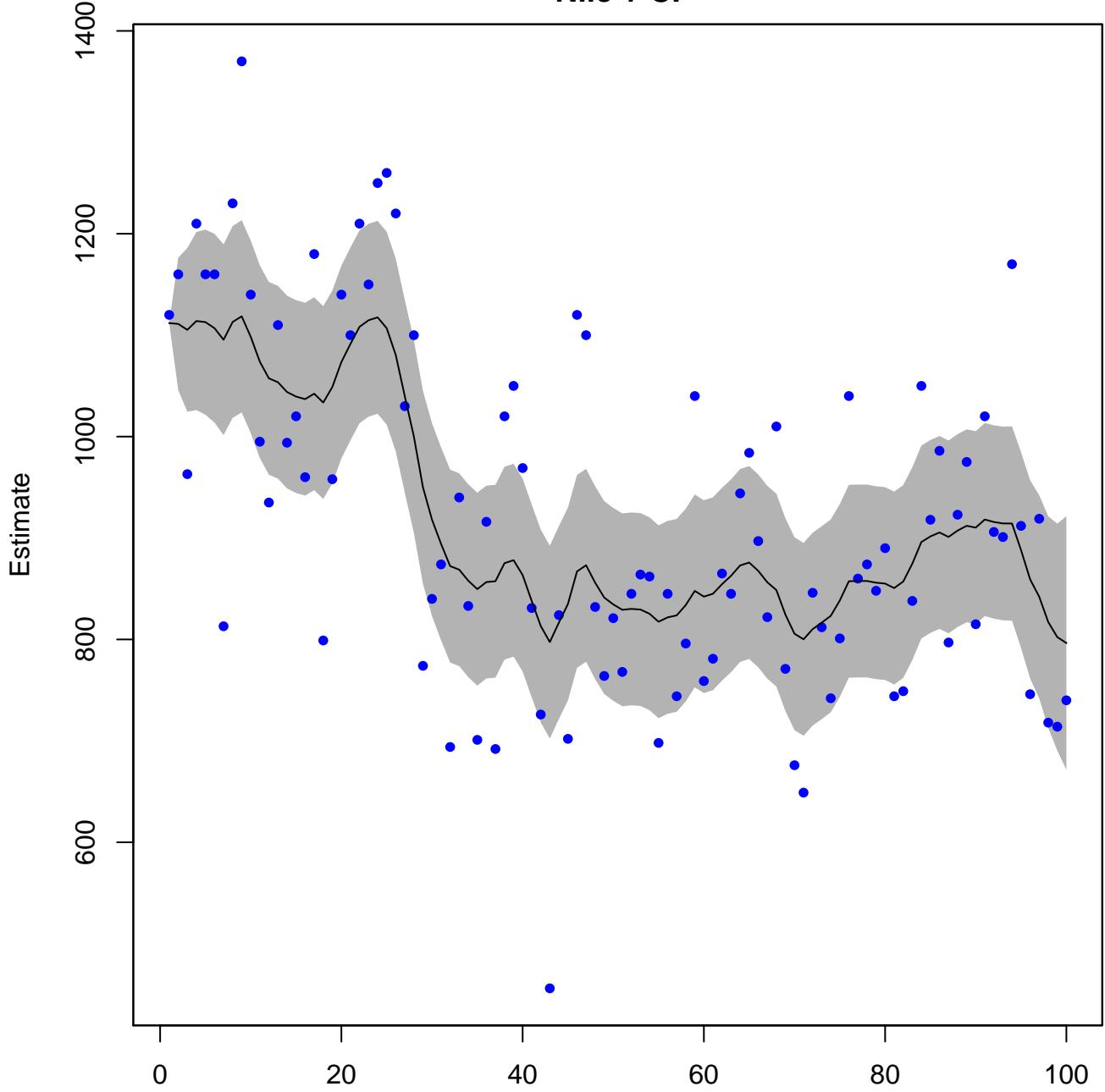
Expected value of Y conditioned on data



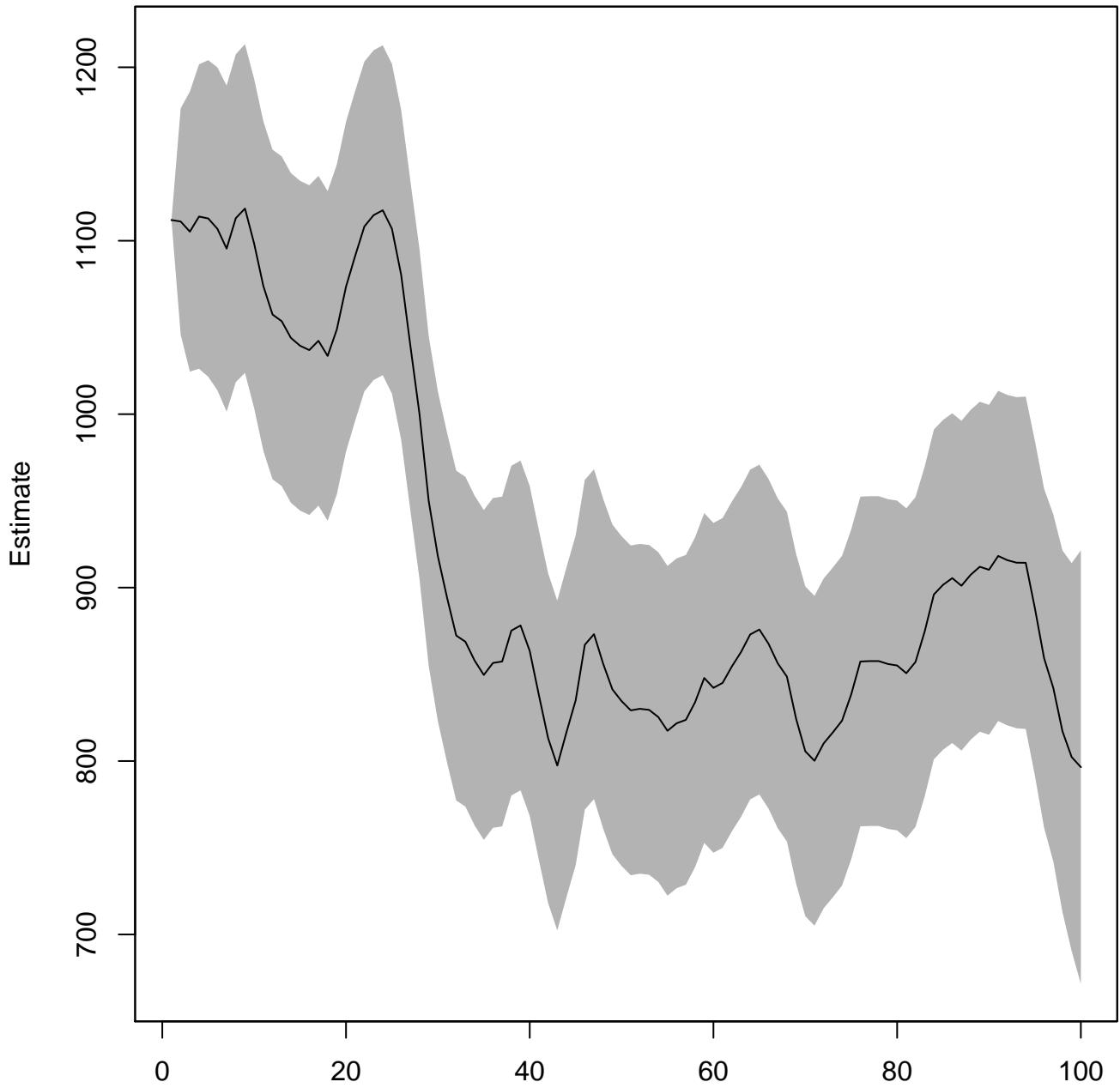
Model innovations residuals ACF



Nile + CI

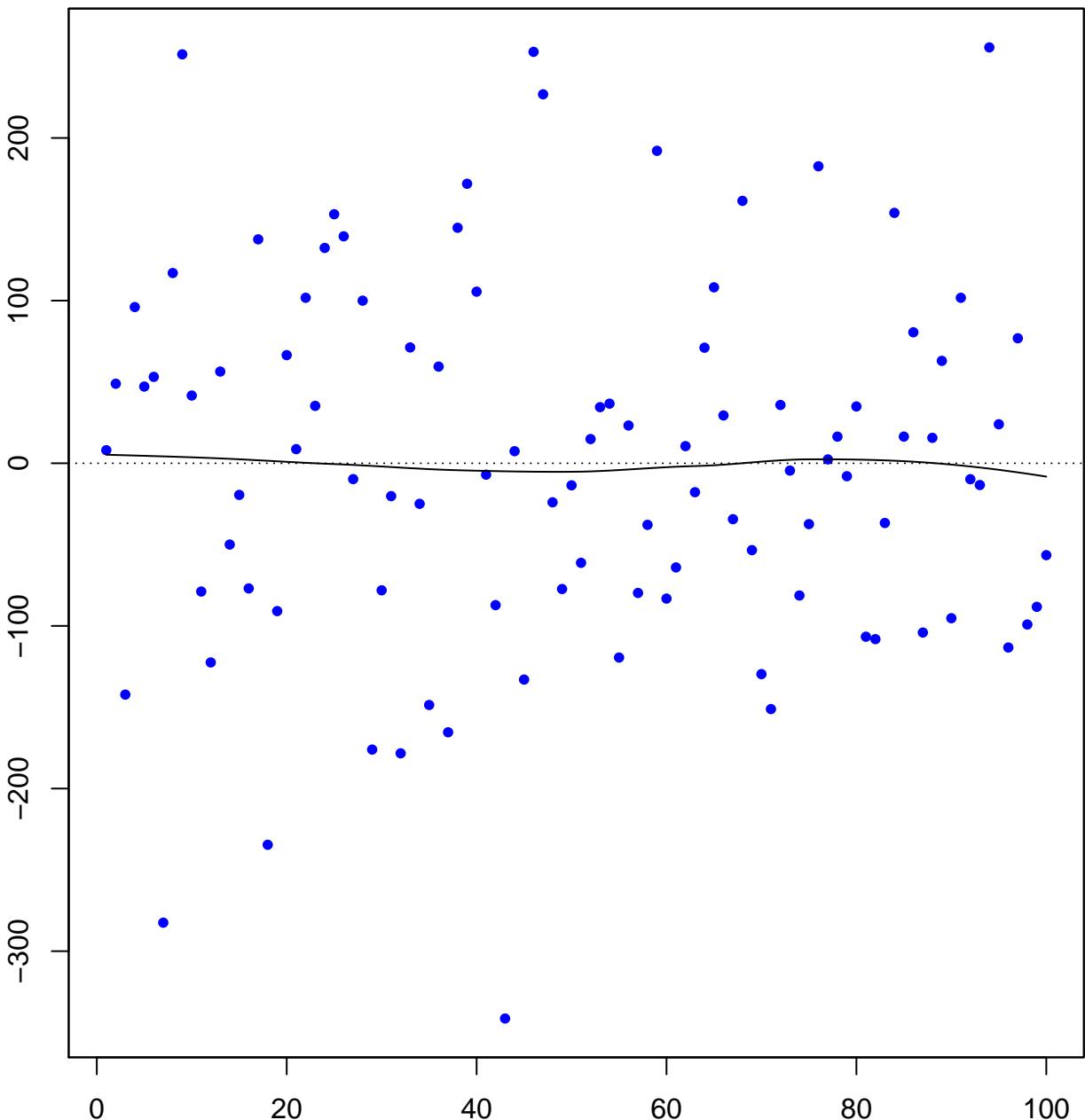


State X.Nile

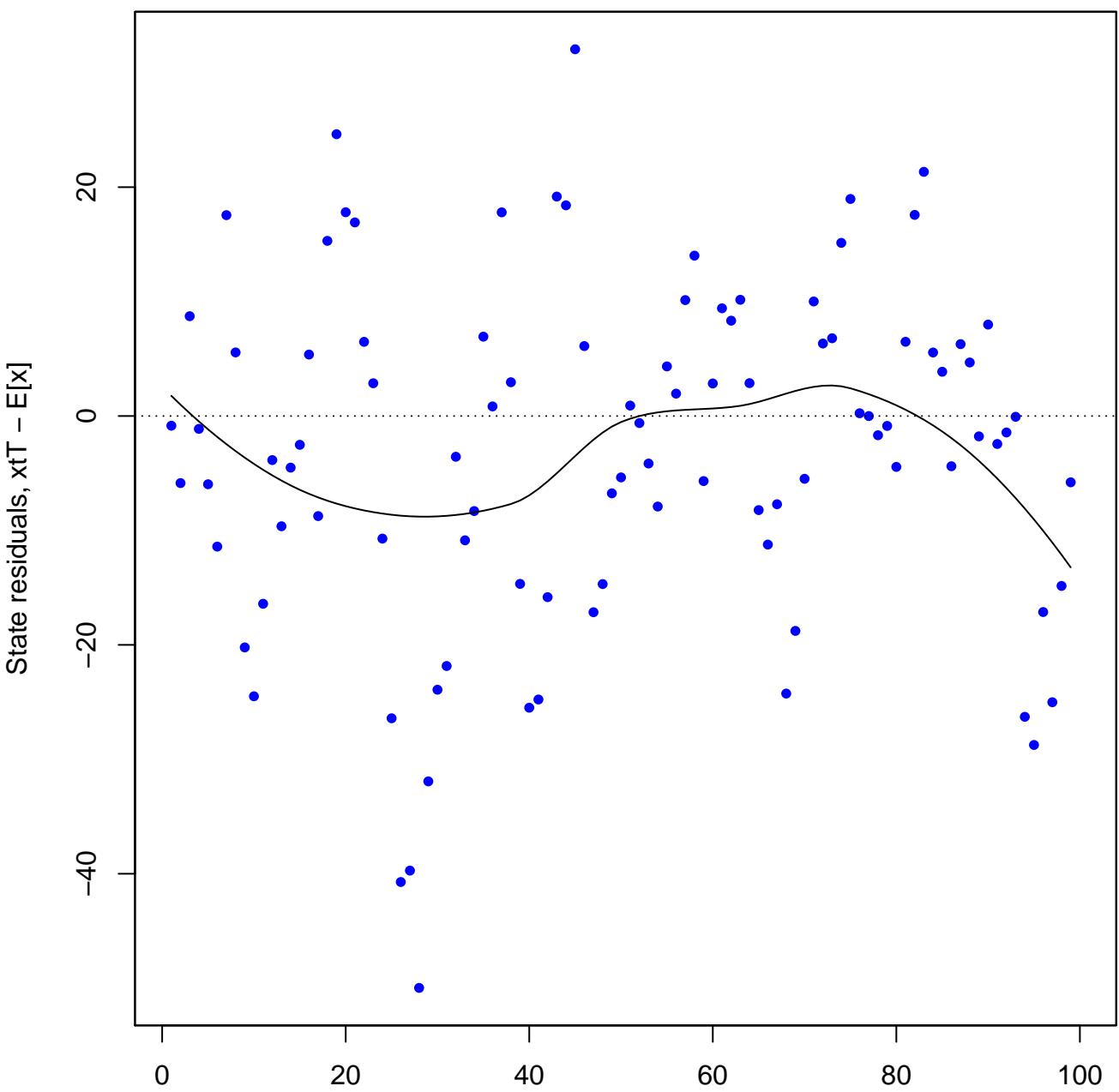


Nile

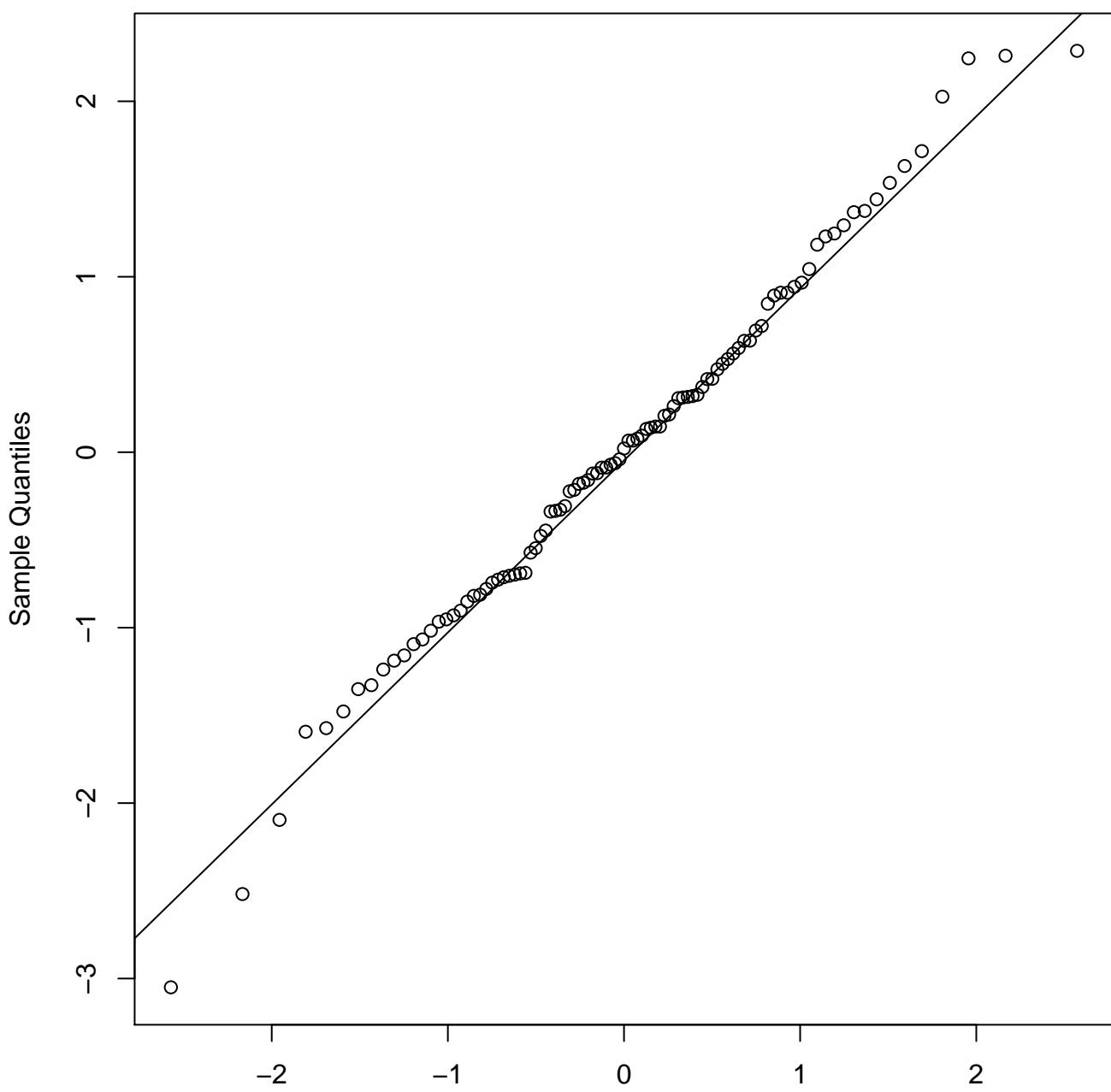
Observation residuals, $y - E[y]$



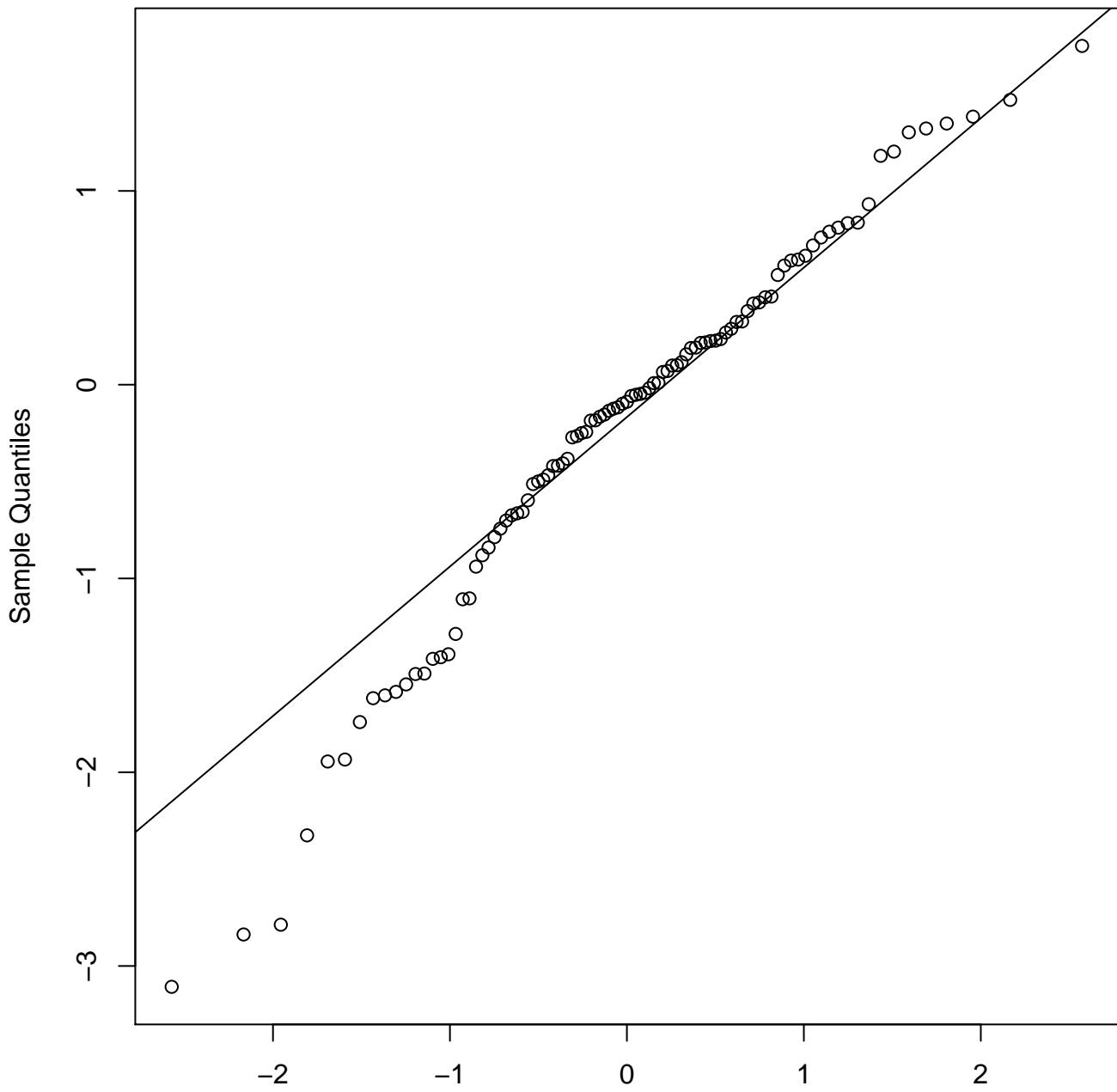
State X.Nile



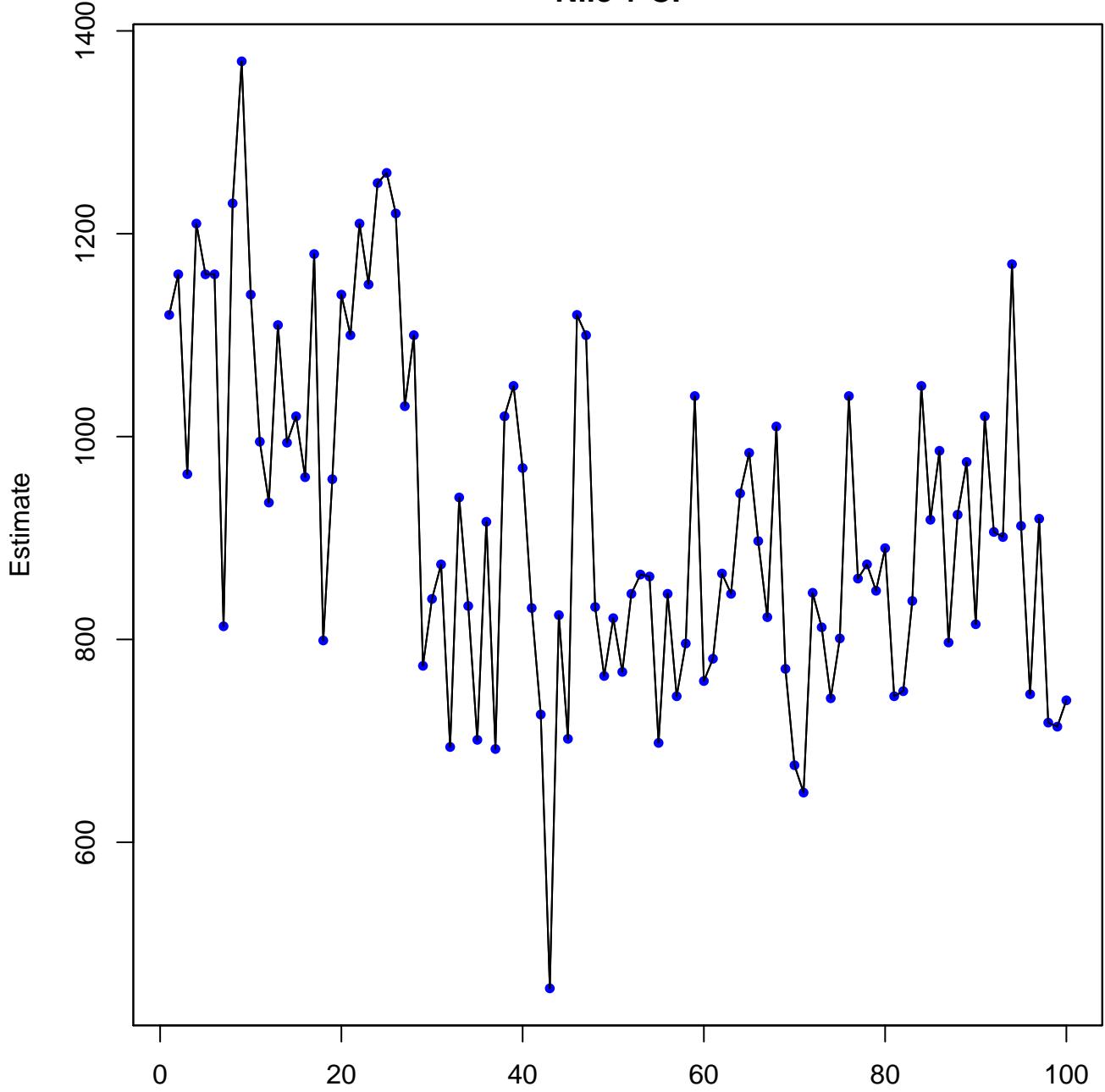
Nile



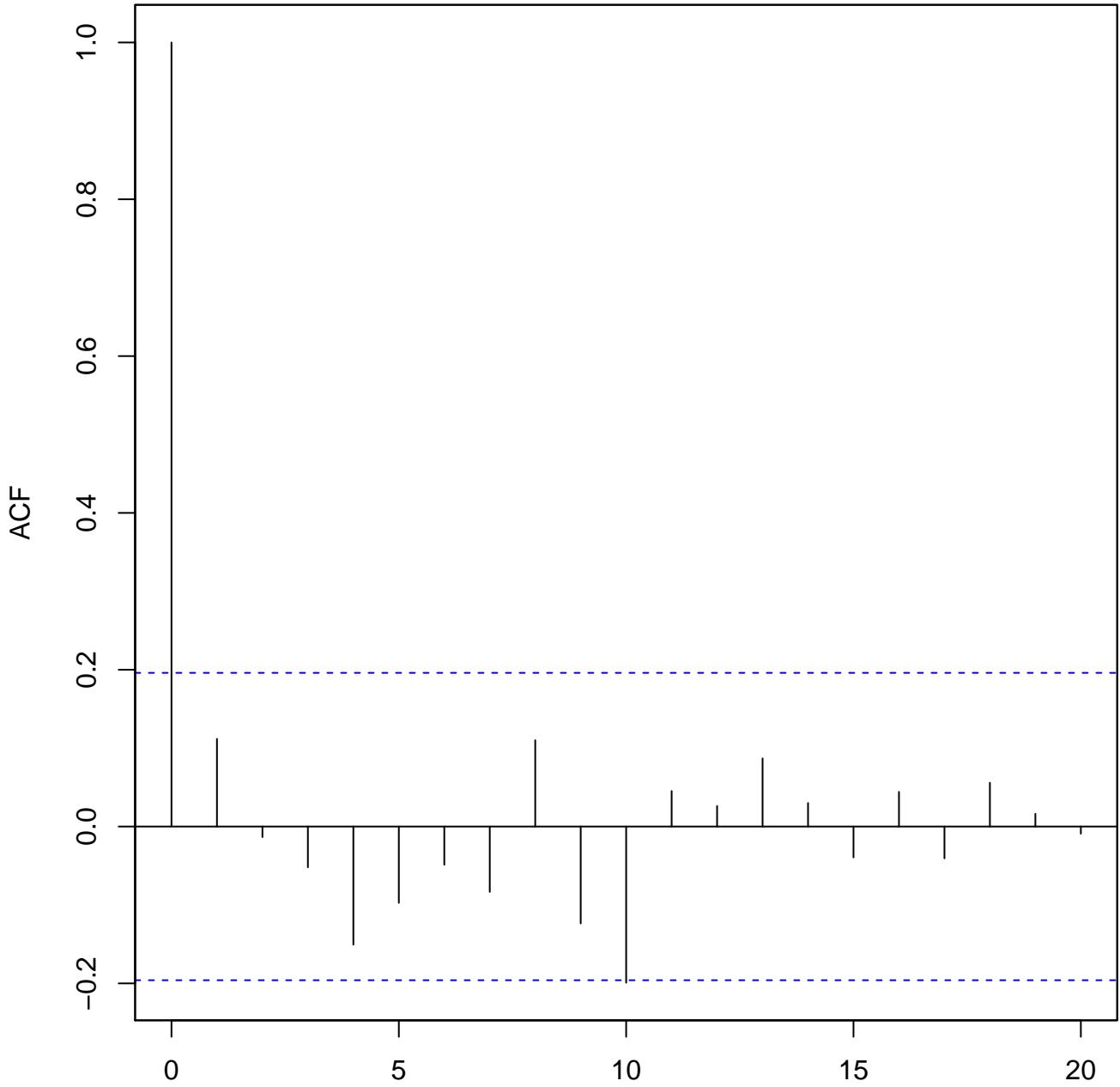
State X.Nile



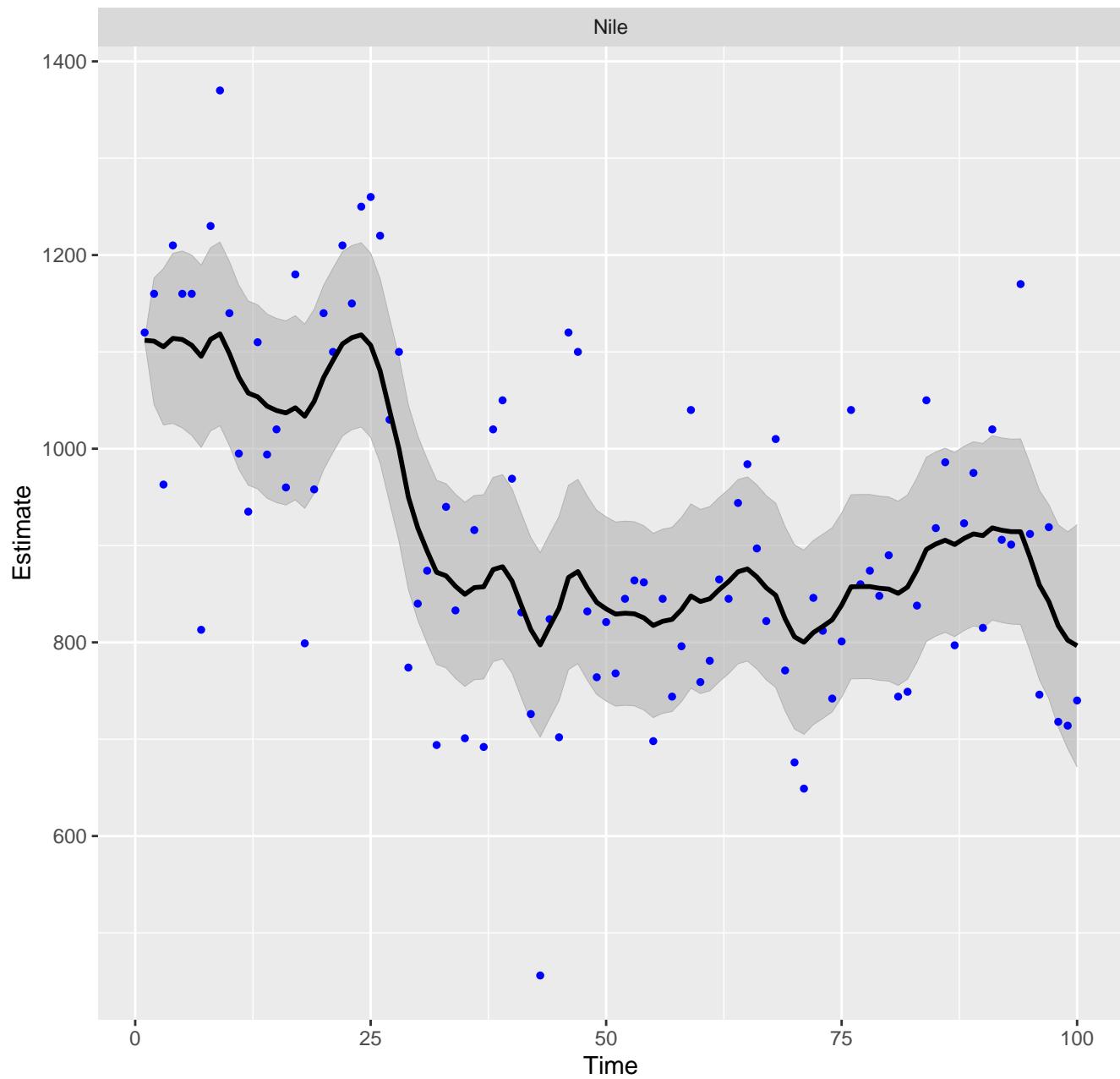
Nile + CI



Nile



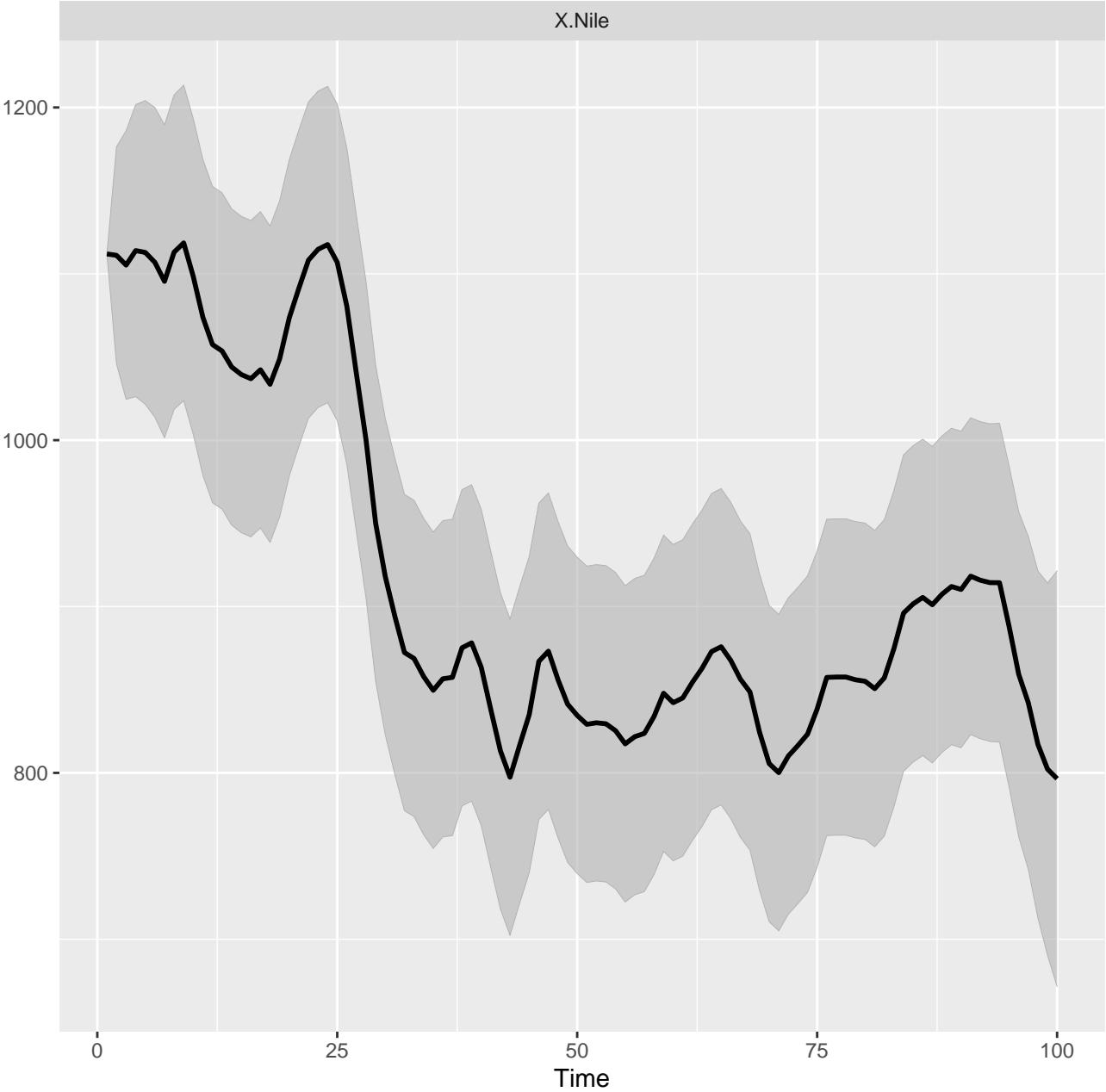
Model fitted Y + CI



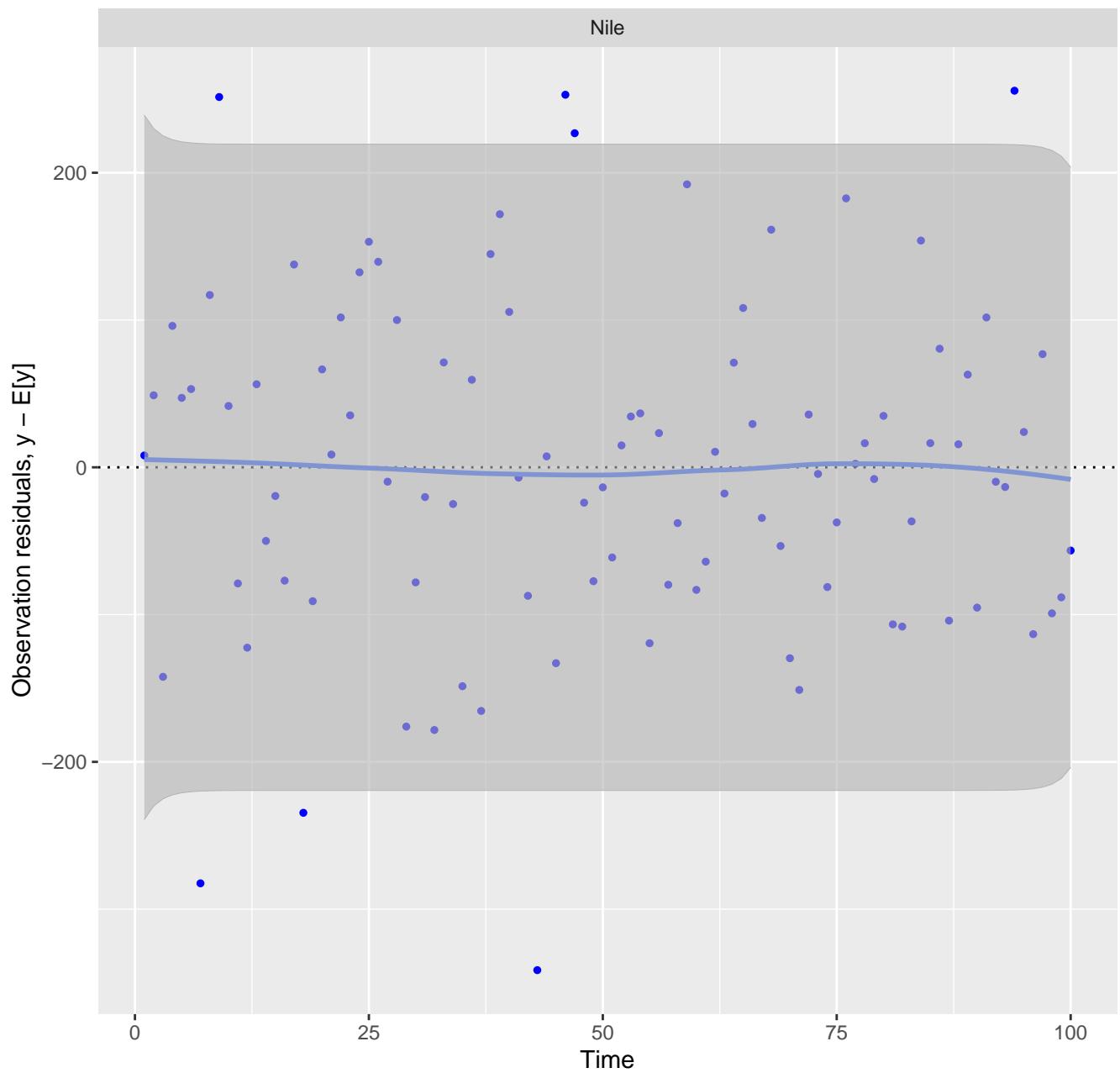
States

X.Nile

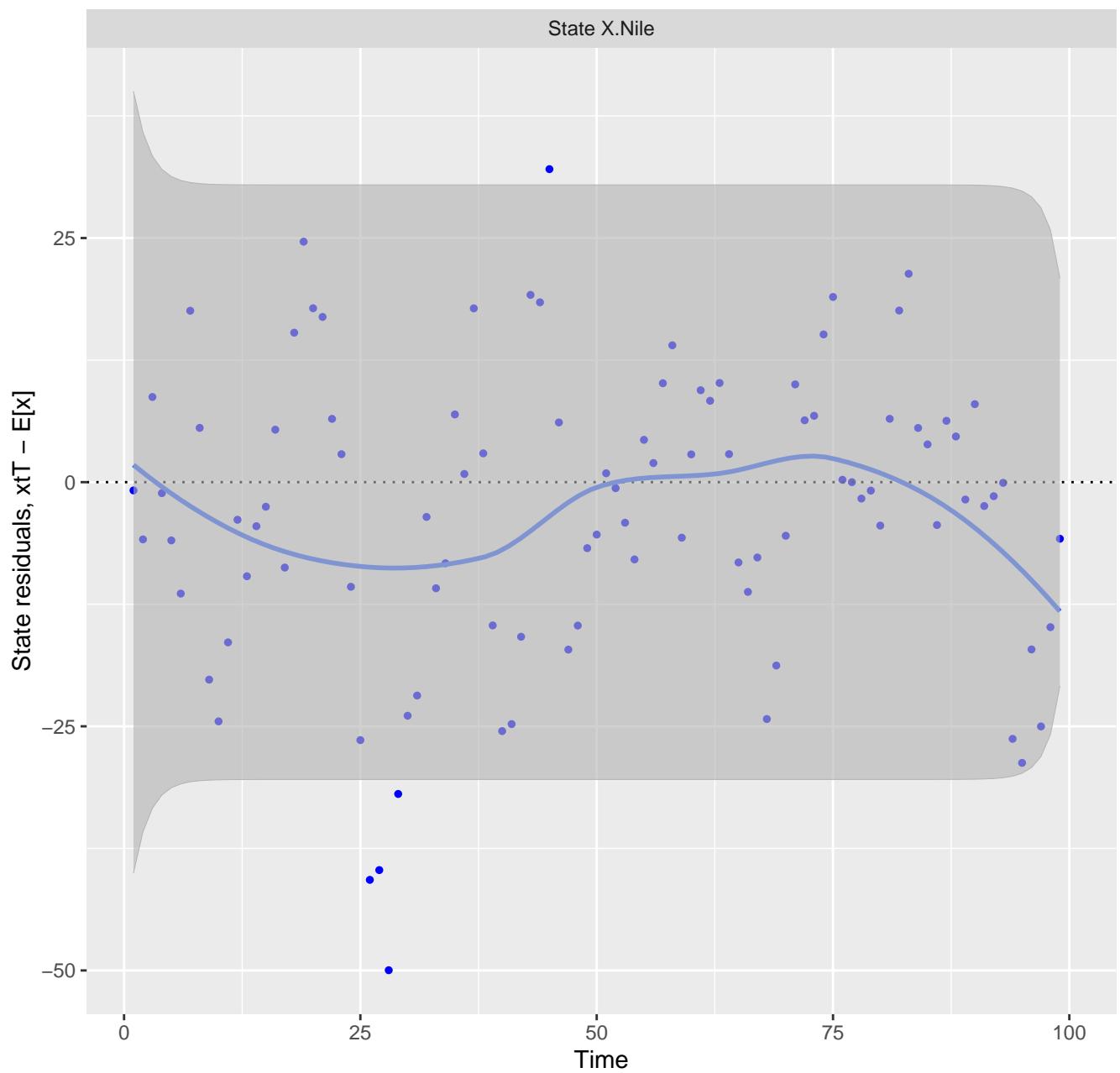
Estimate



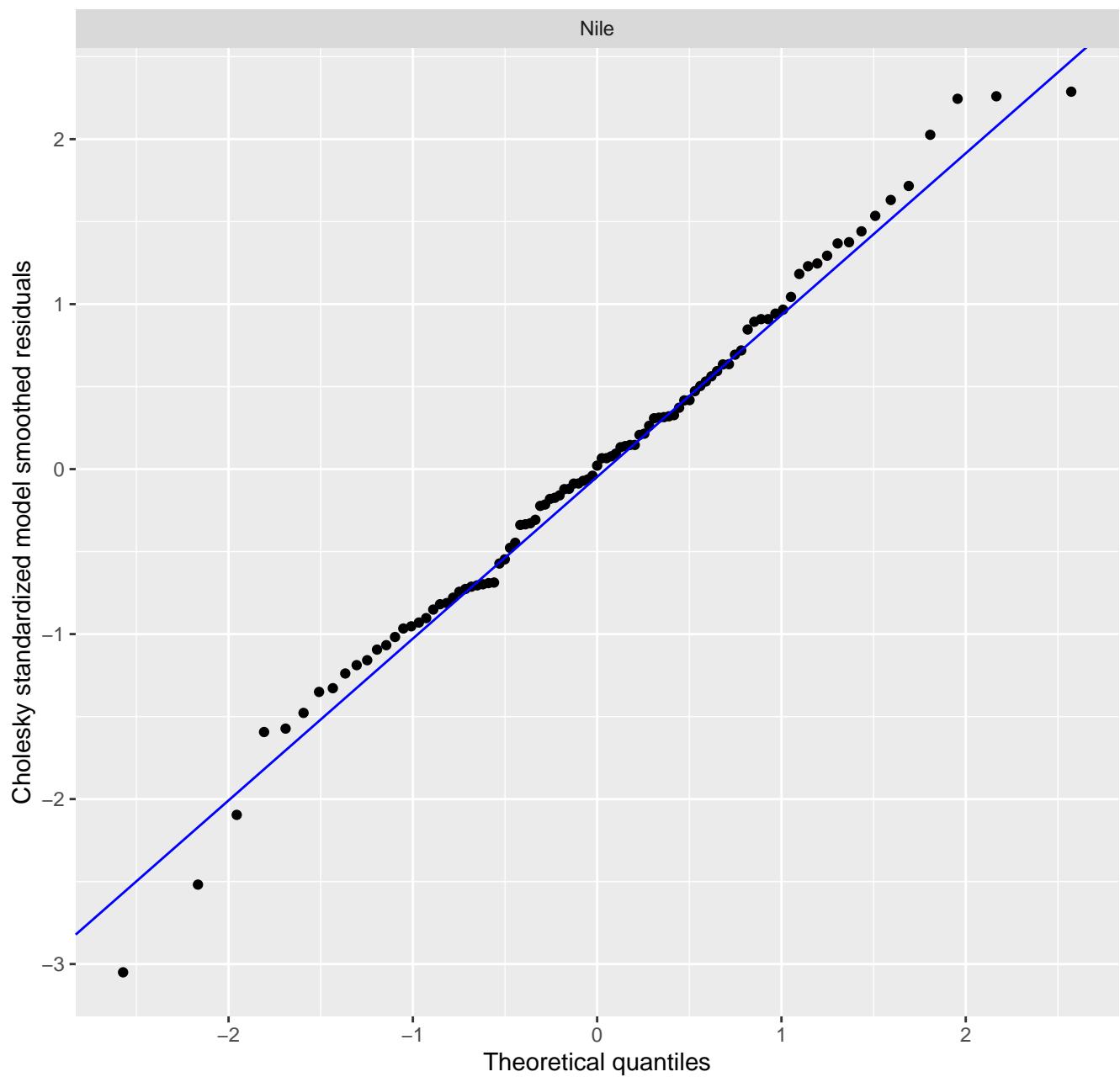
Model residuals



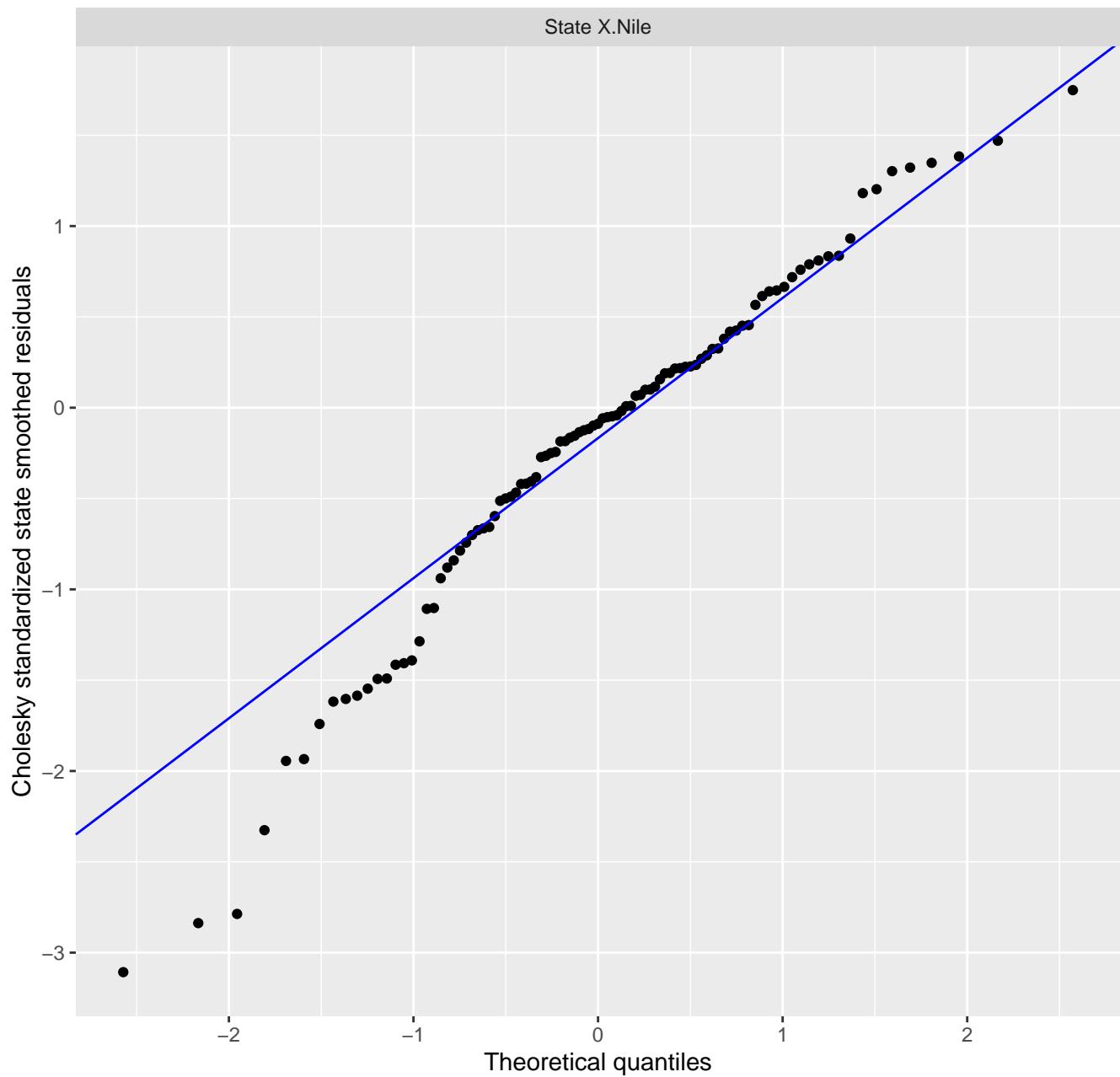
State residuals



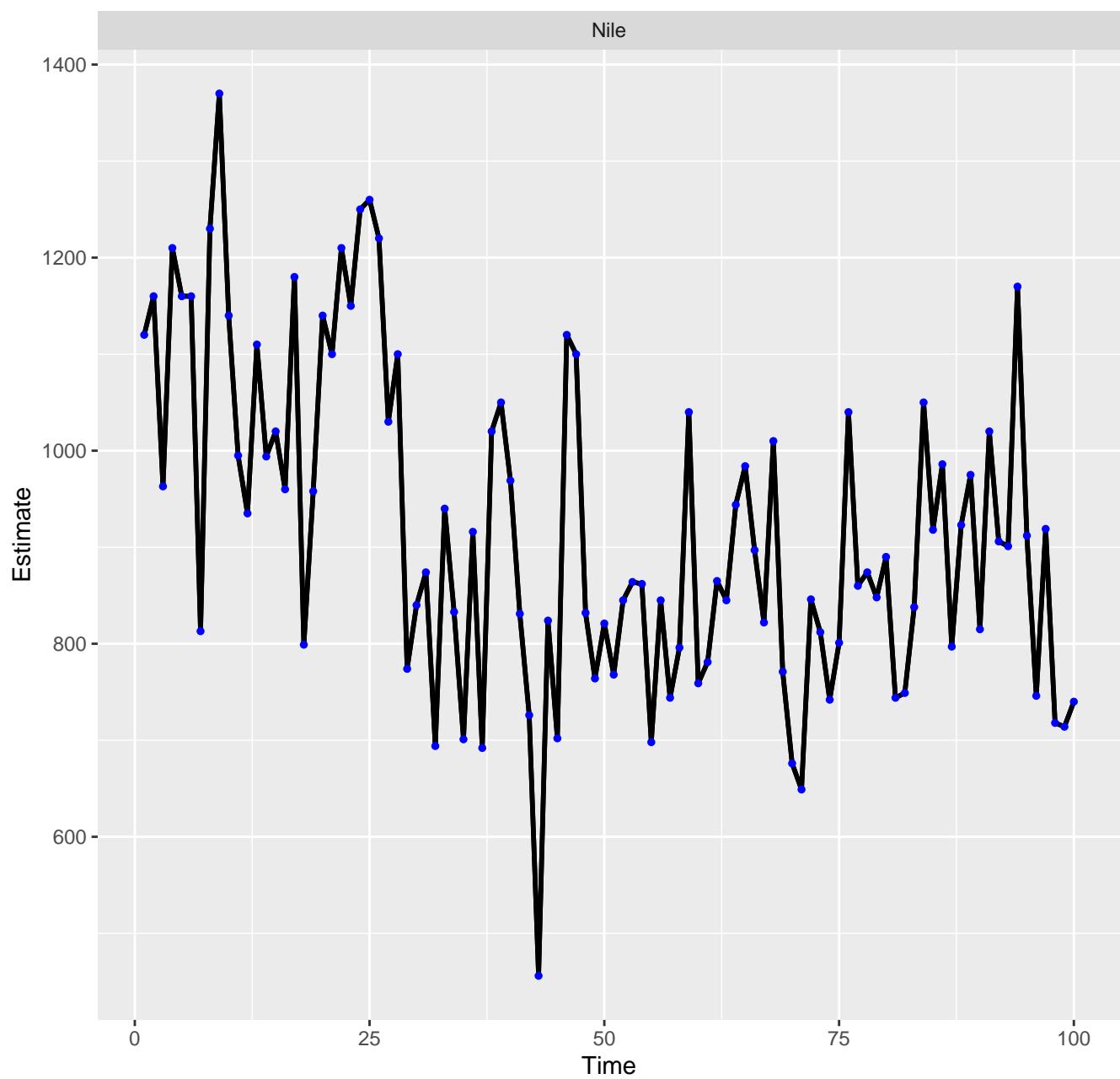
Model residuals normality test



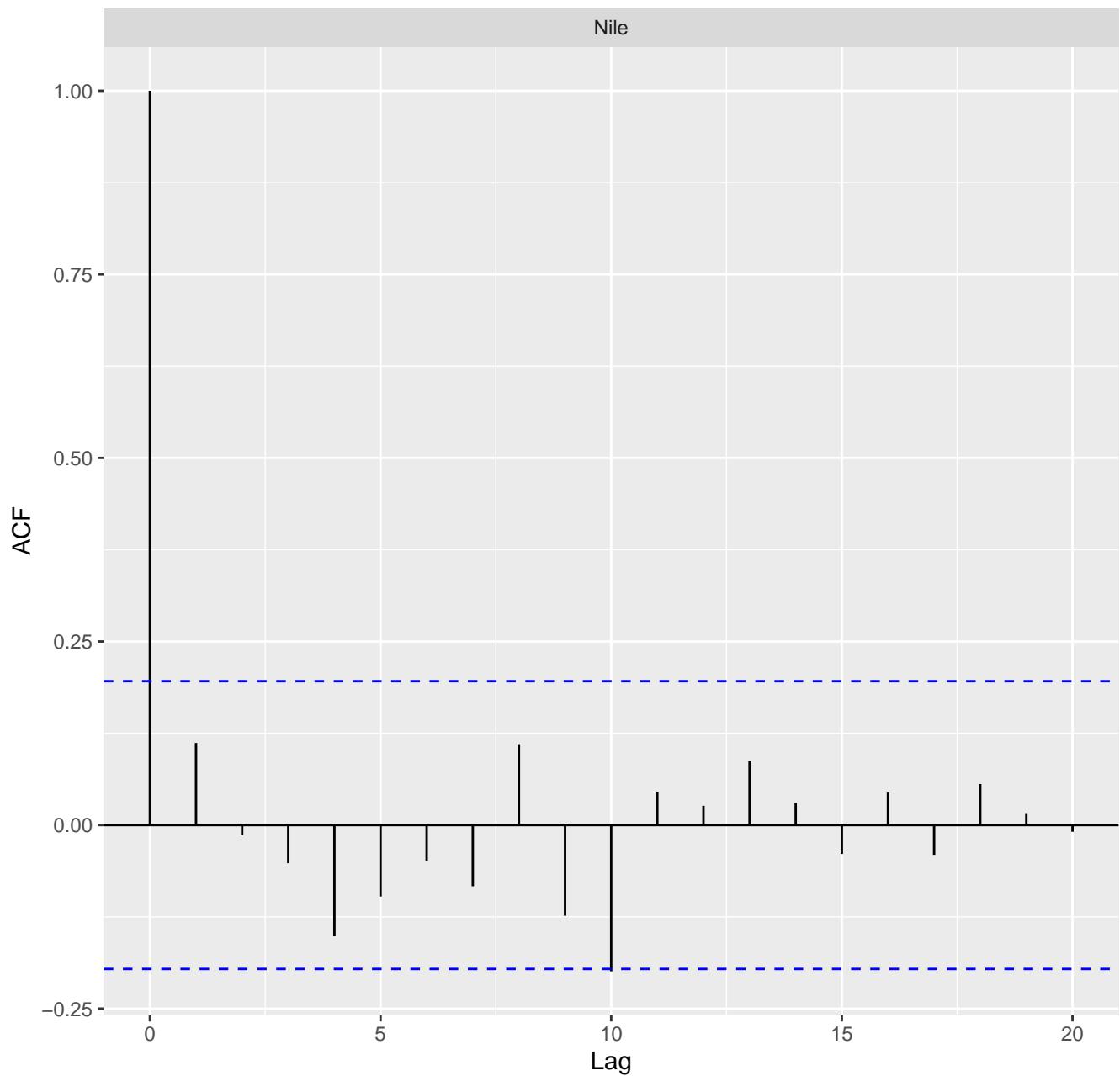
State residuals normality test



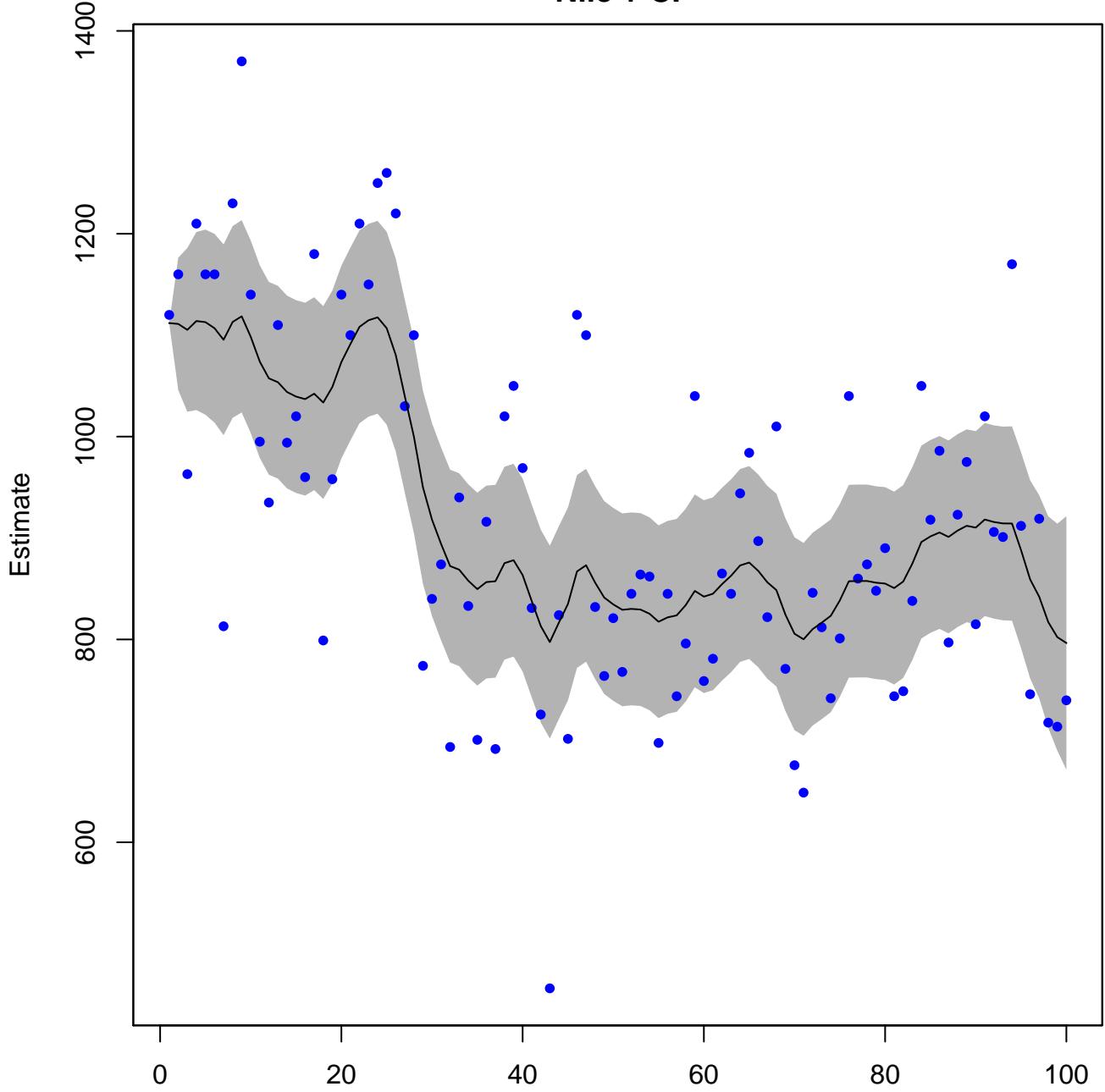
Expected value of Y conditioned on data



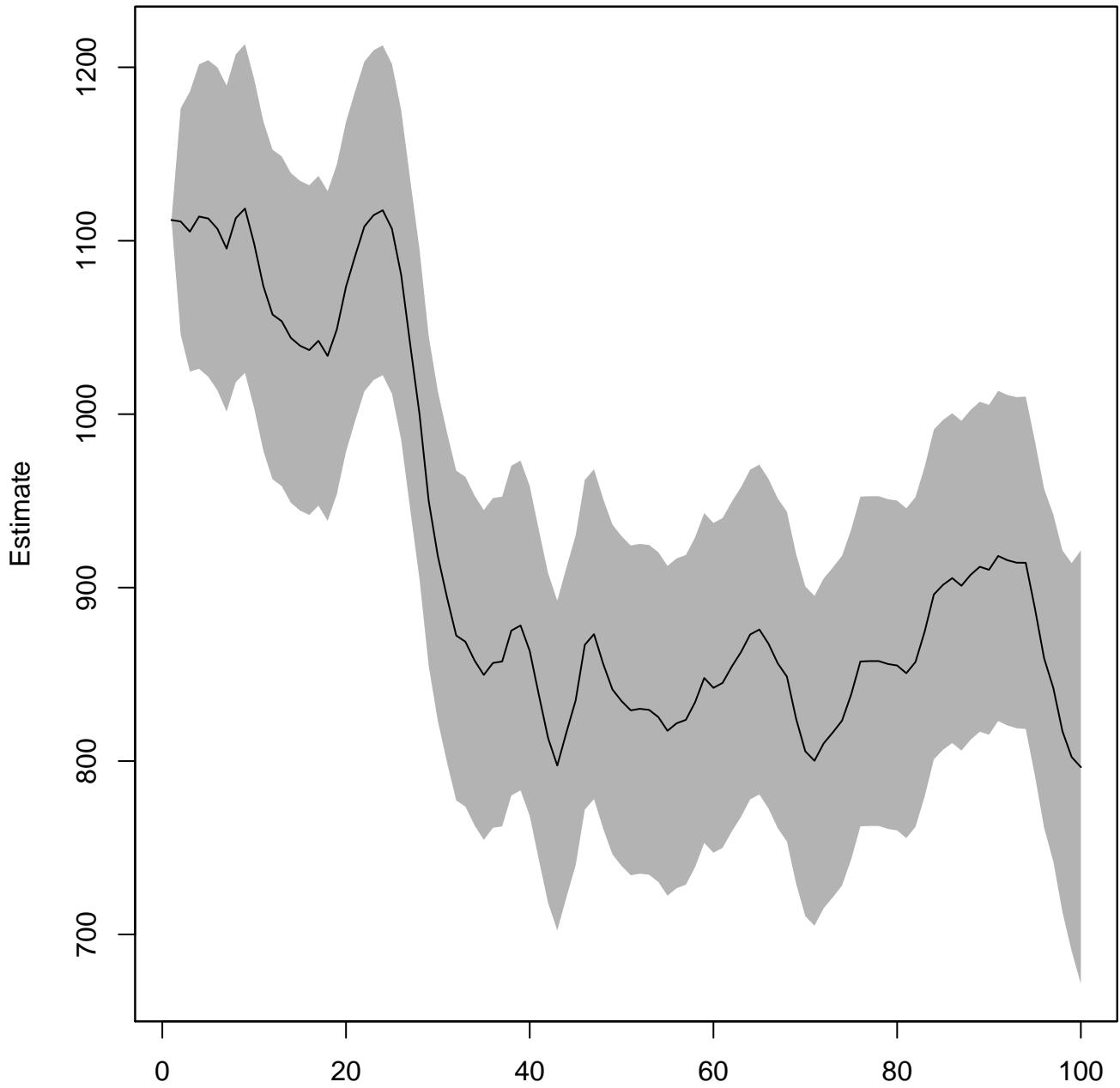
Model innovations residuals ACF



Nile + CI

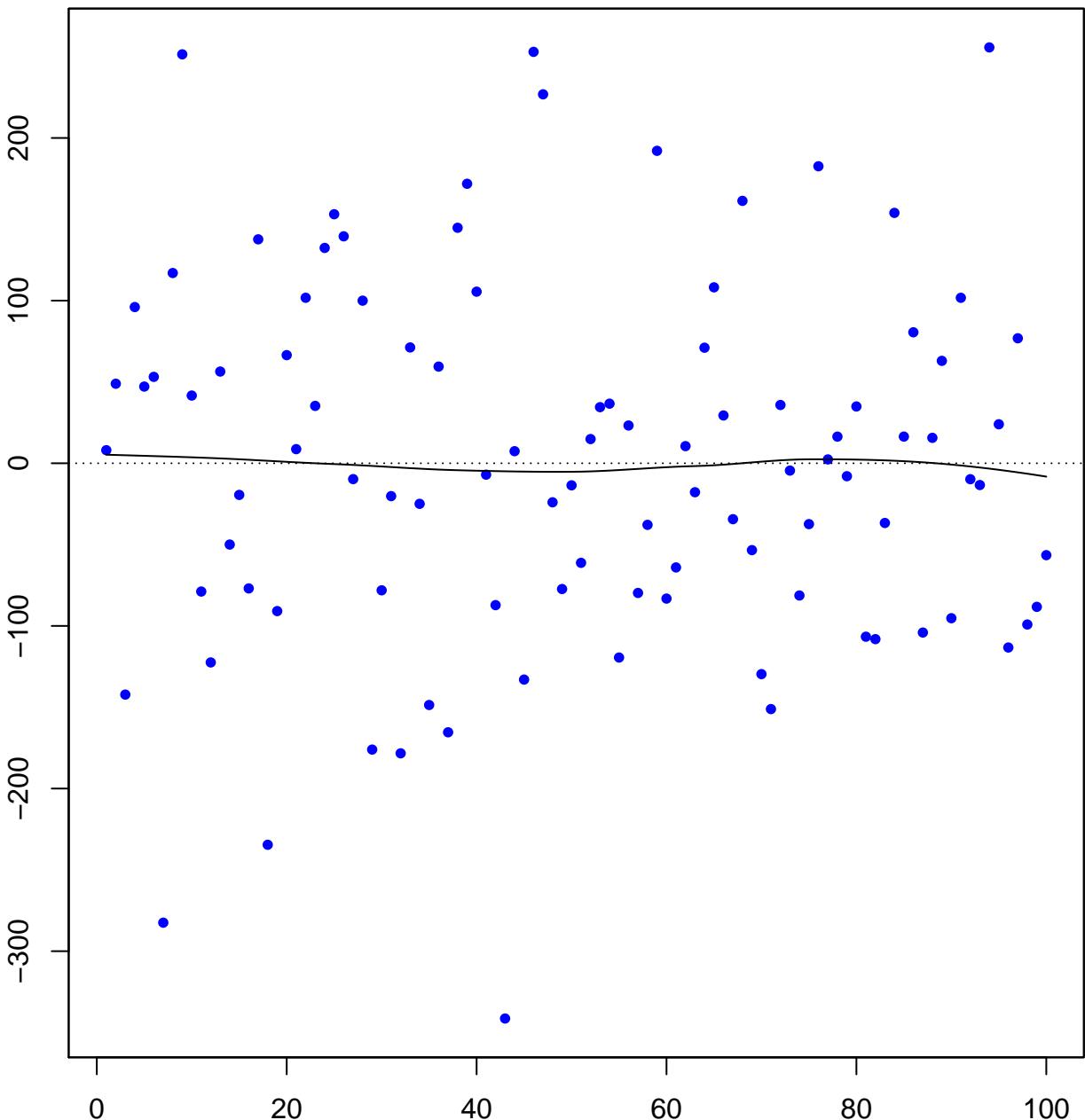


State X.Nile

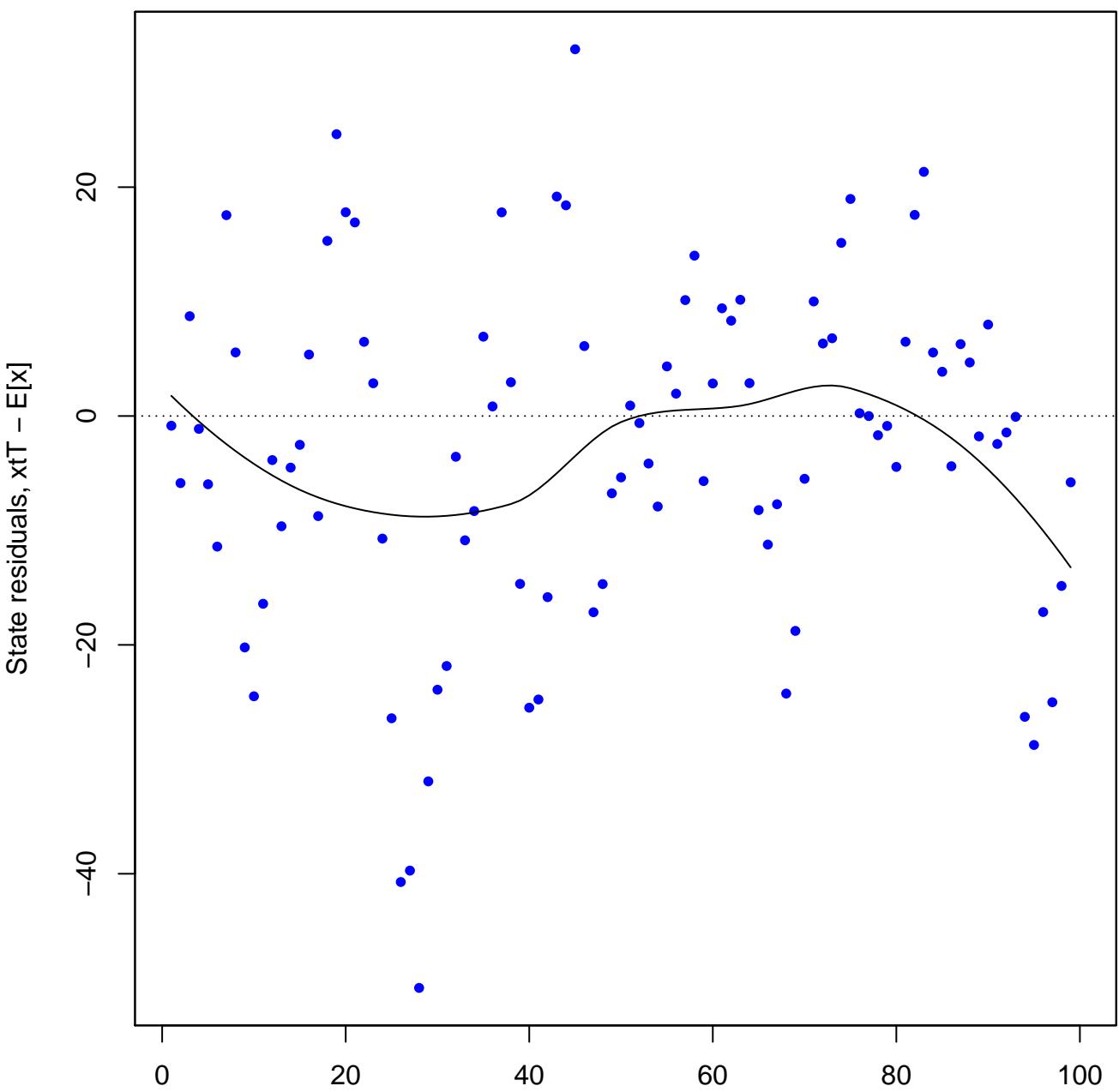


Nile

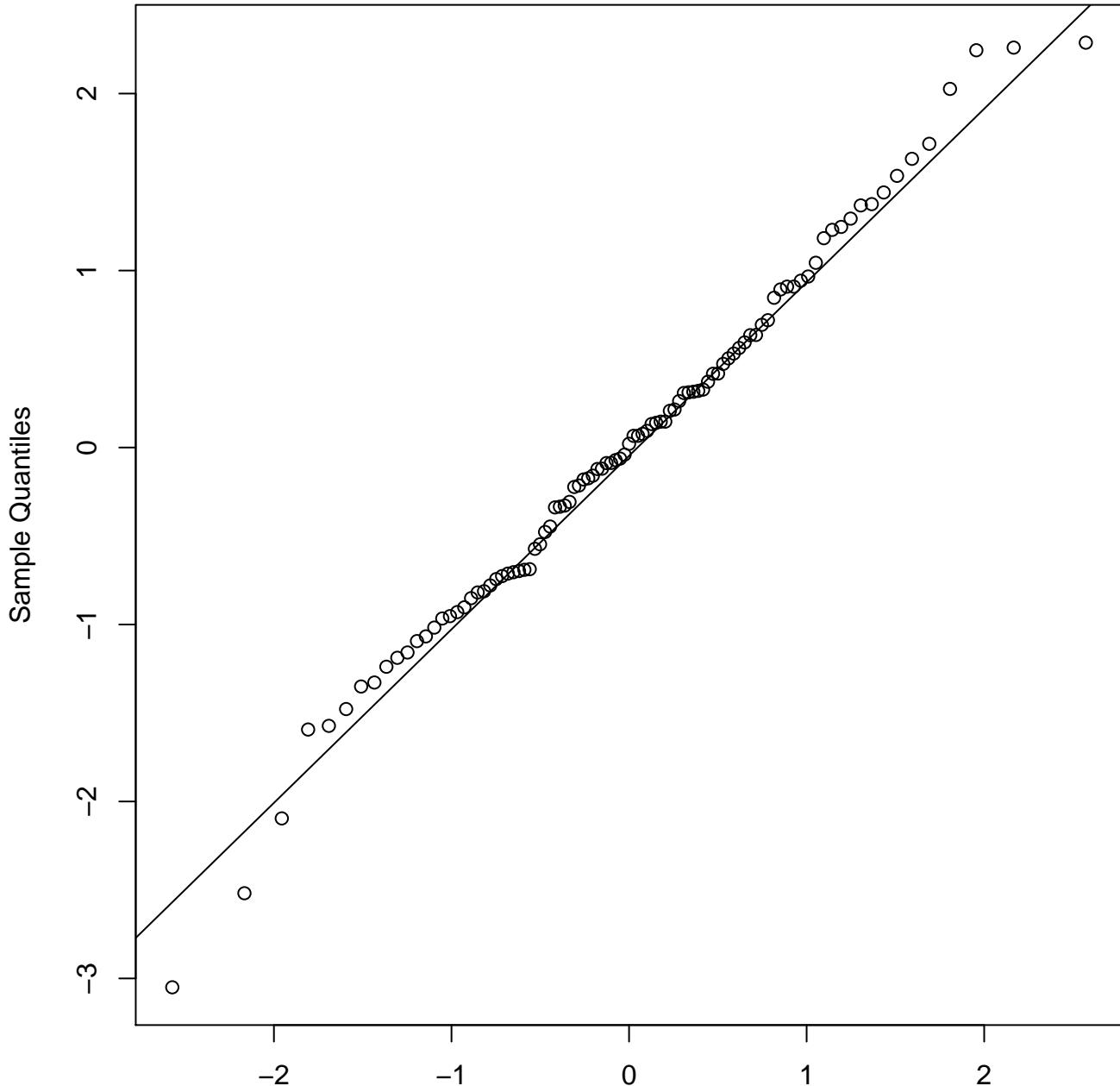
Observation residuals, $y - E[y]$



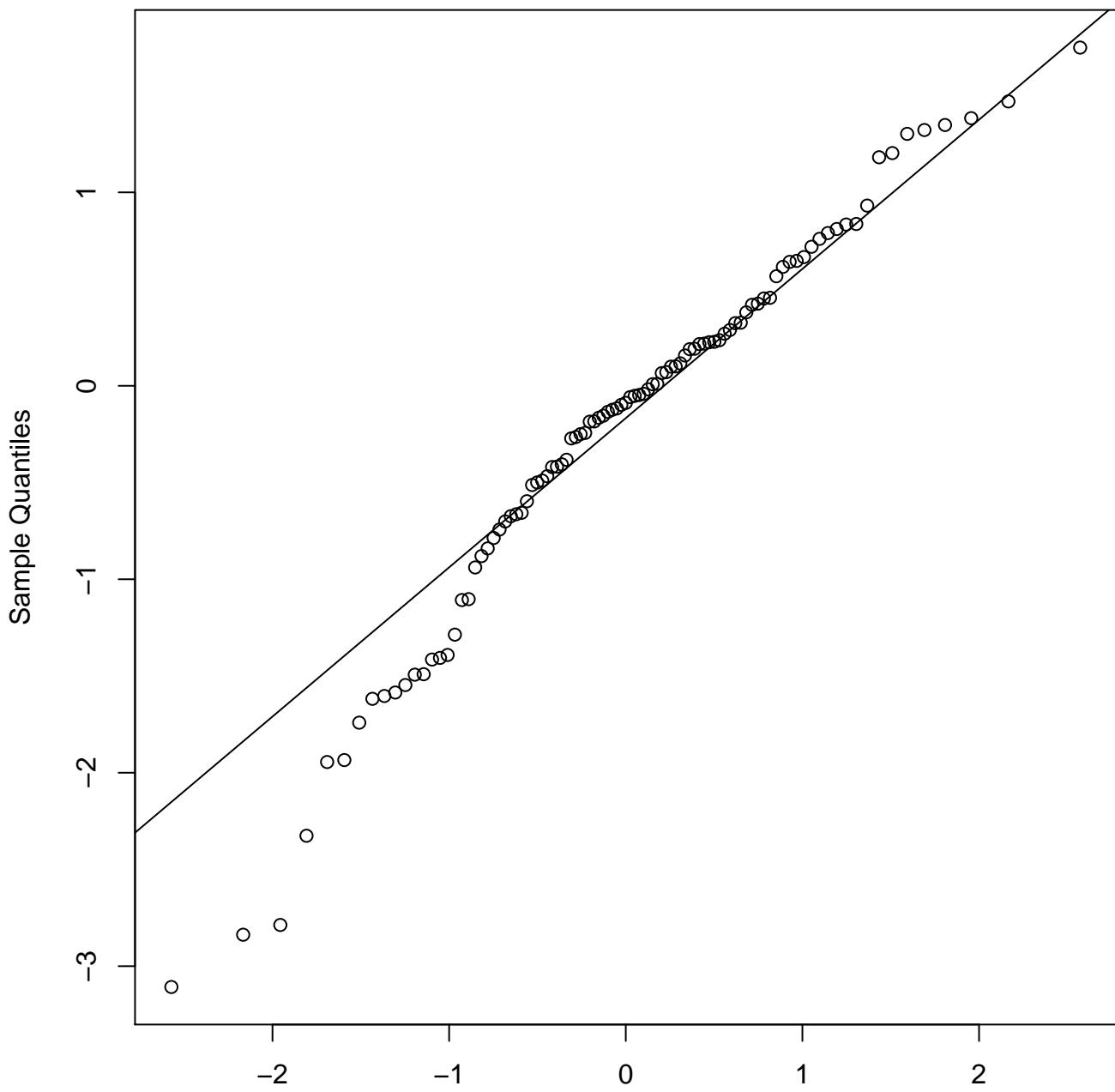
State X.Nile



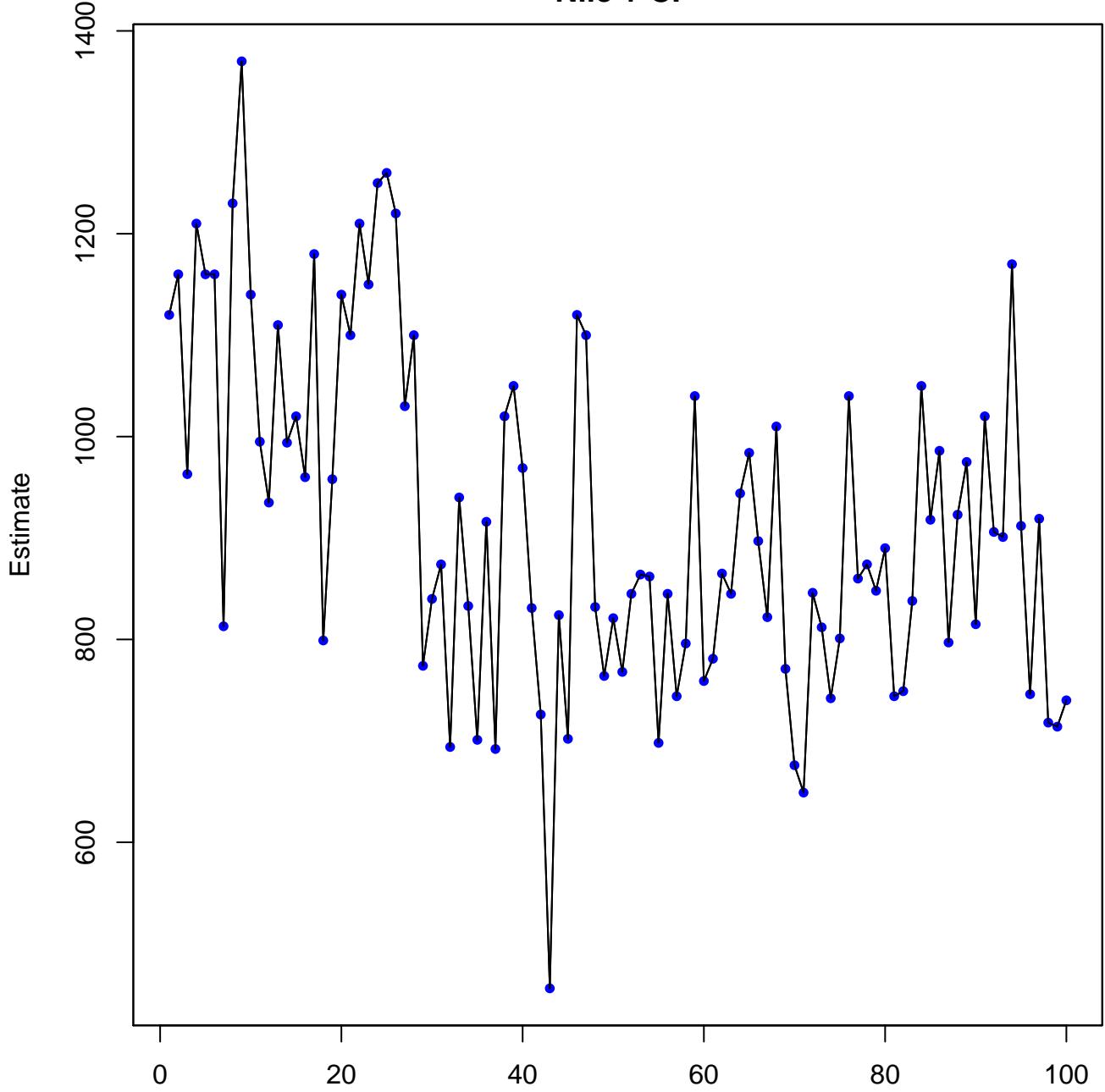
Nile



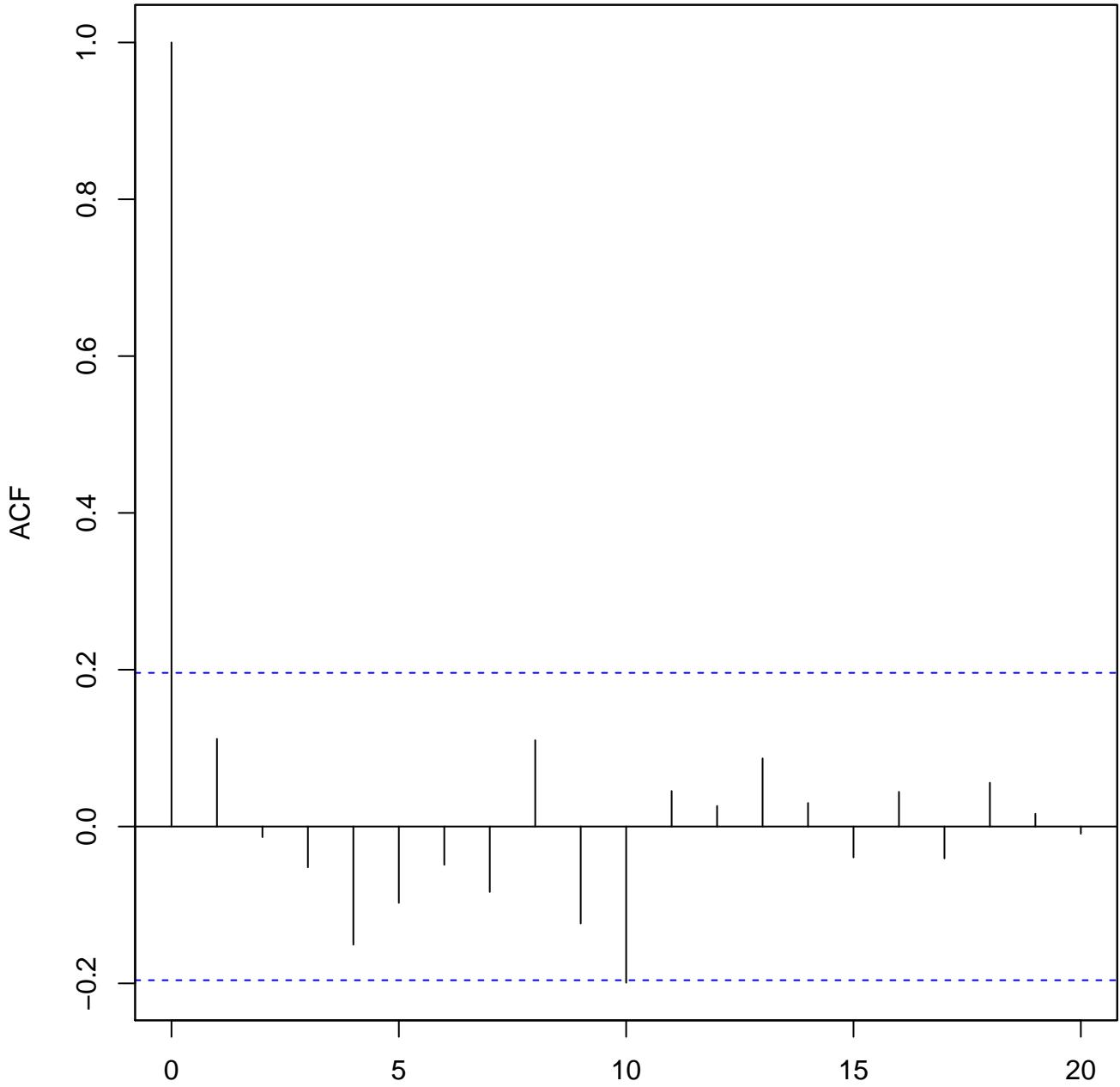
State X.Nile



Nile + CI



Nile



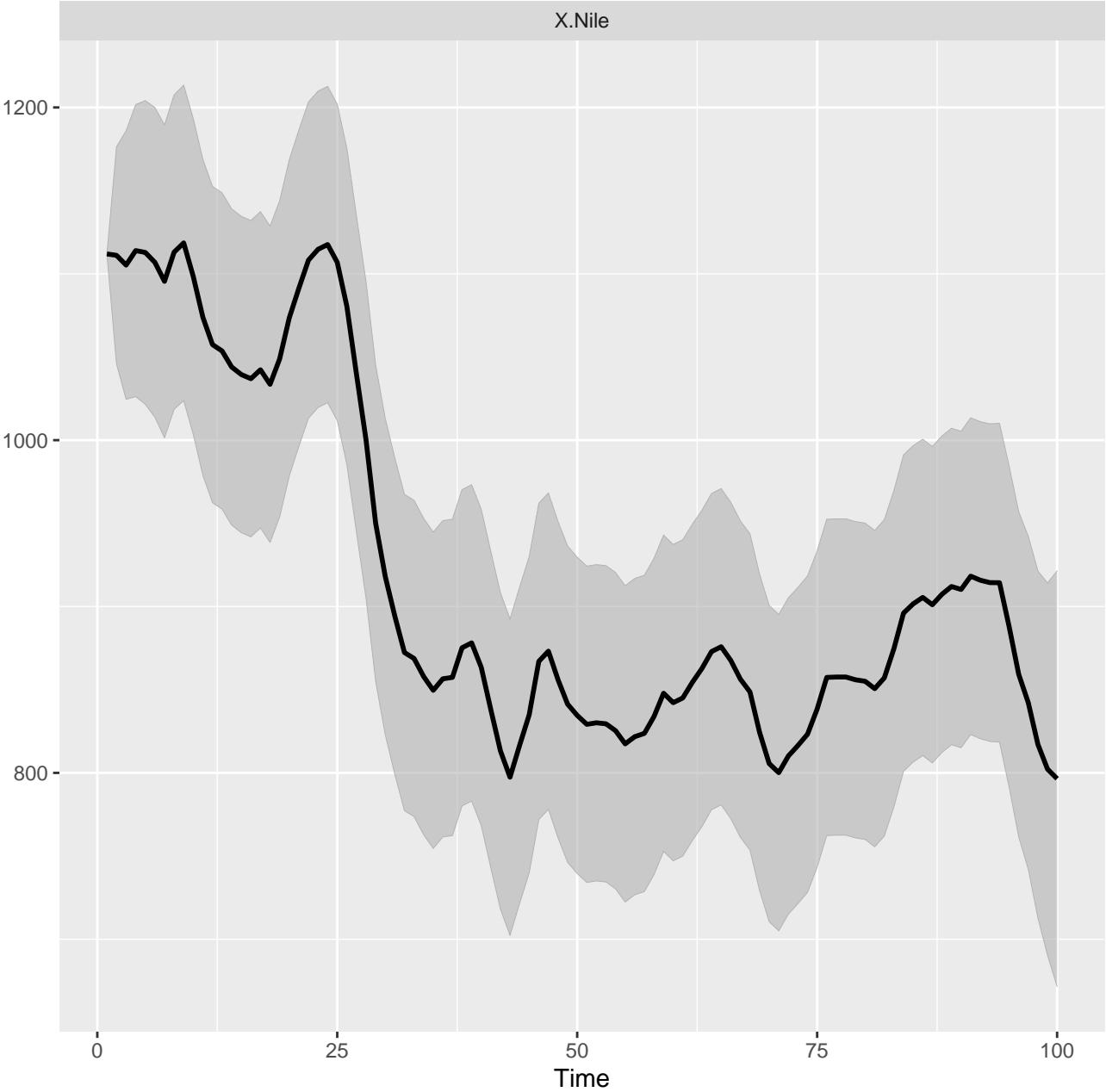
Model fitted Y + CI



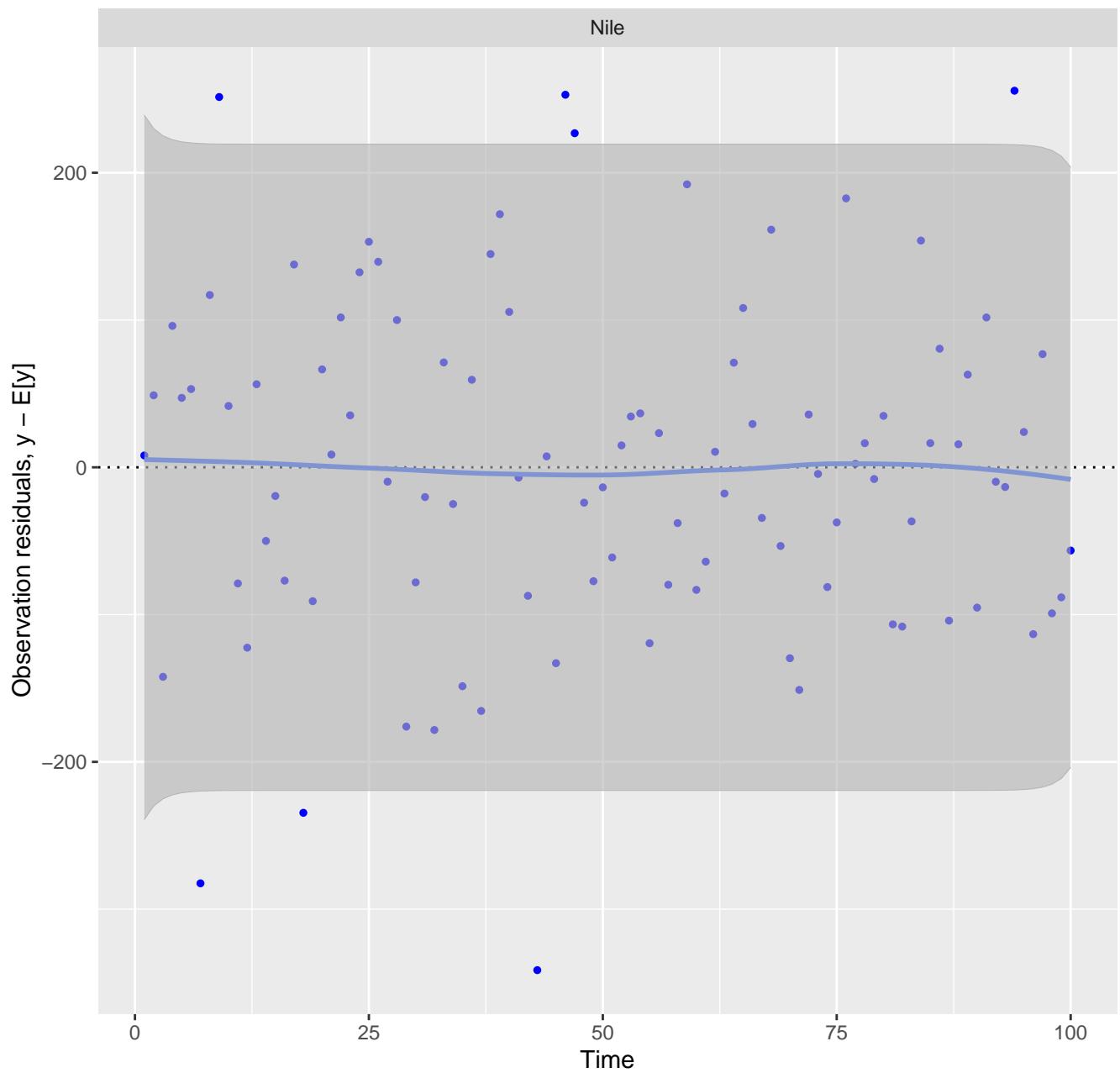
States

X.Nile

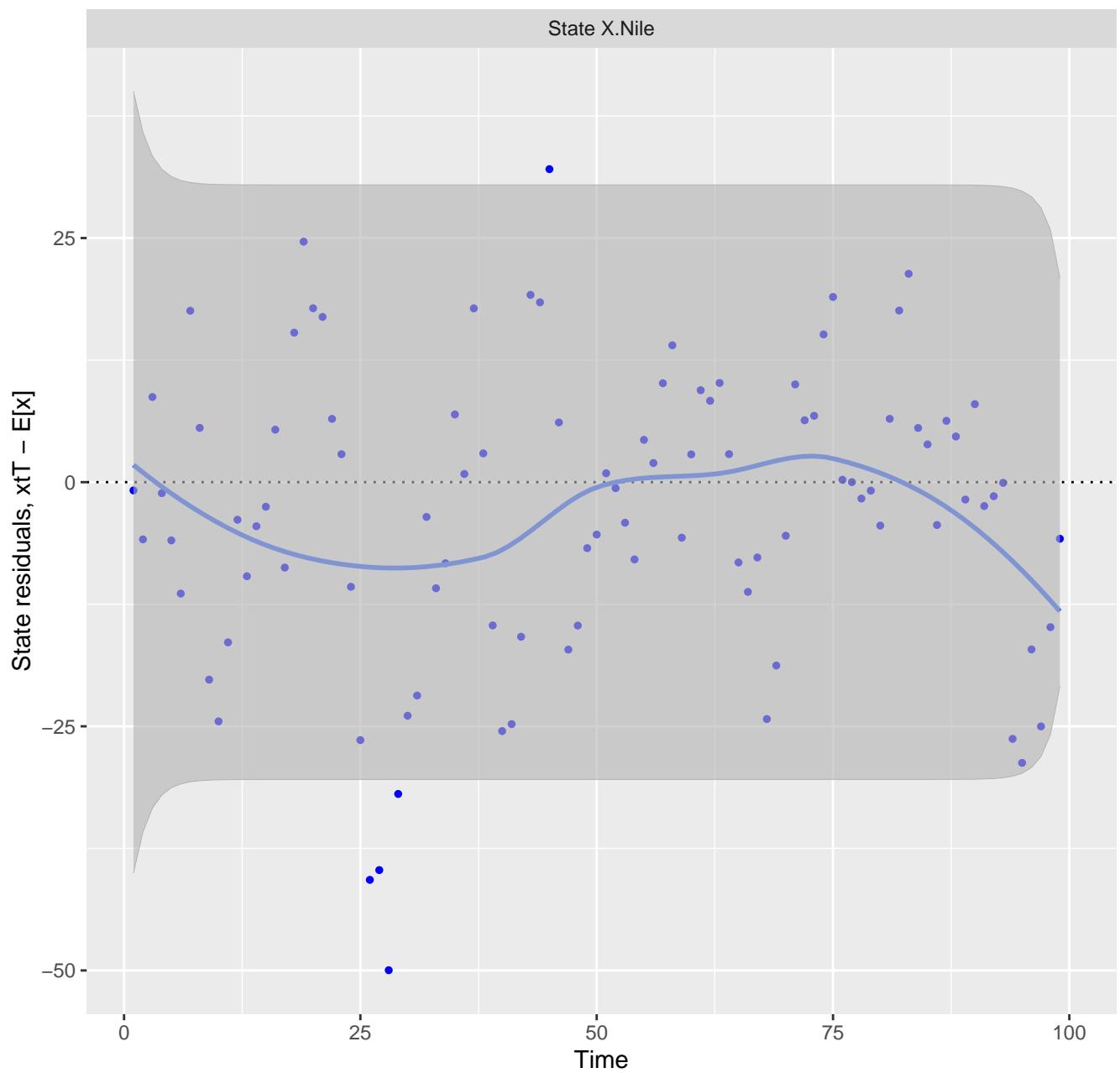
Estimate



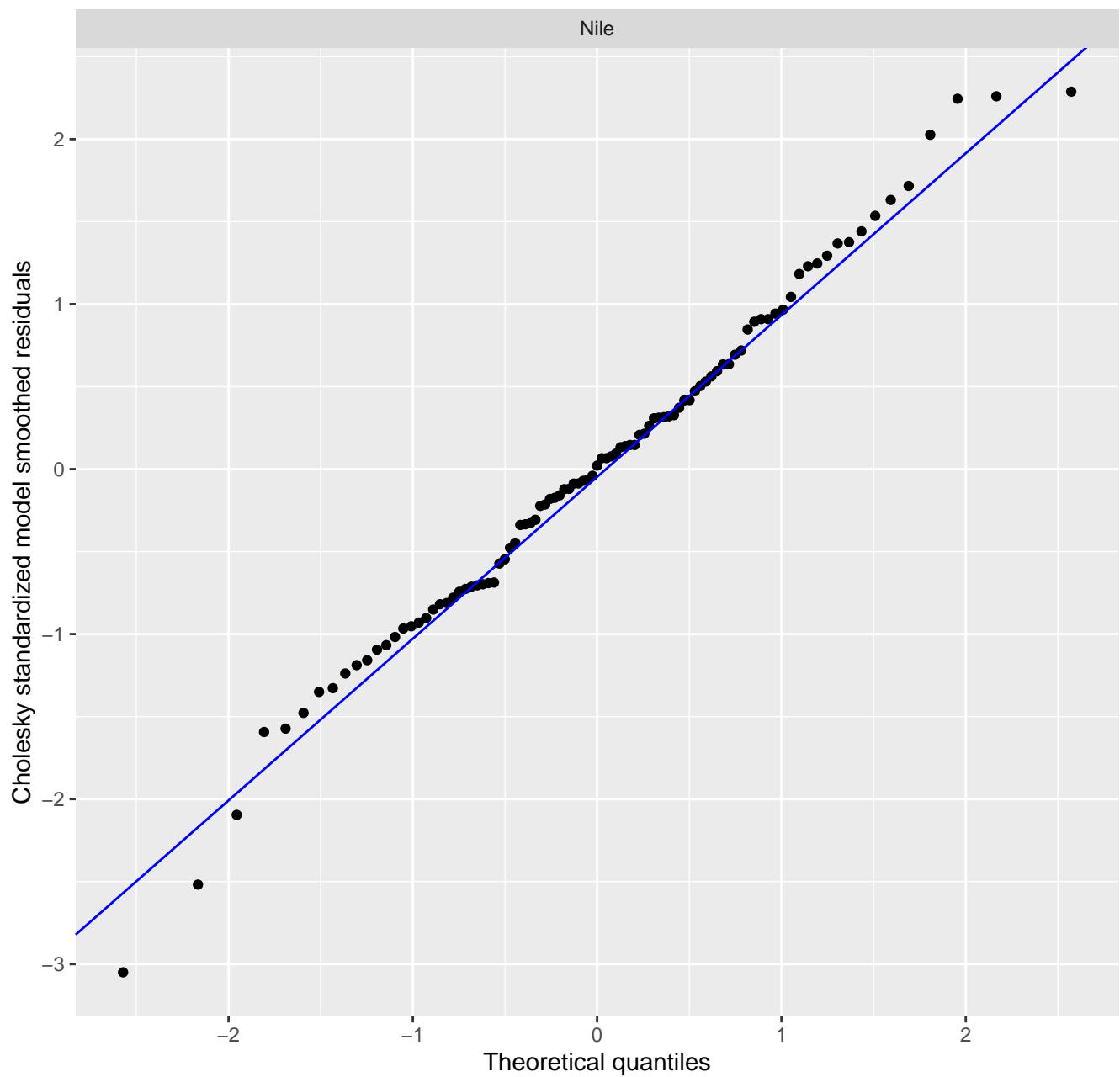
Model residuals



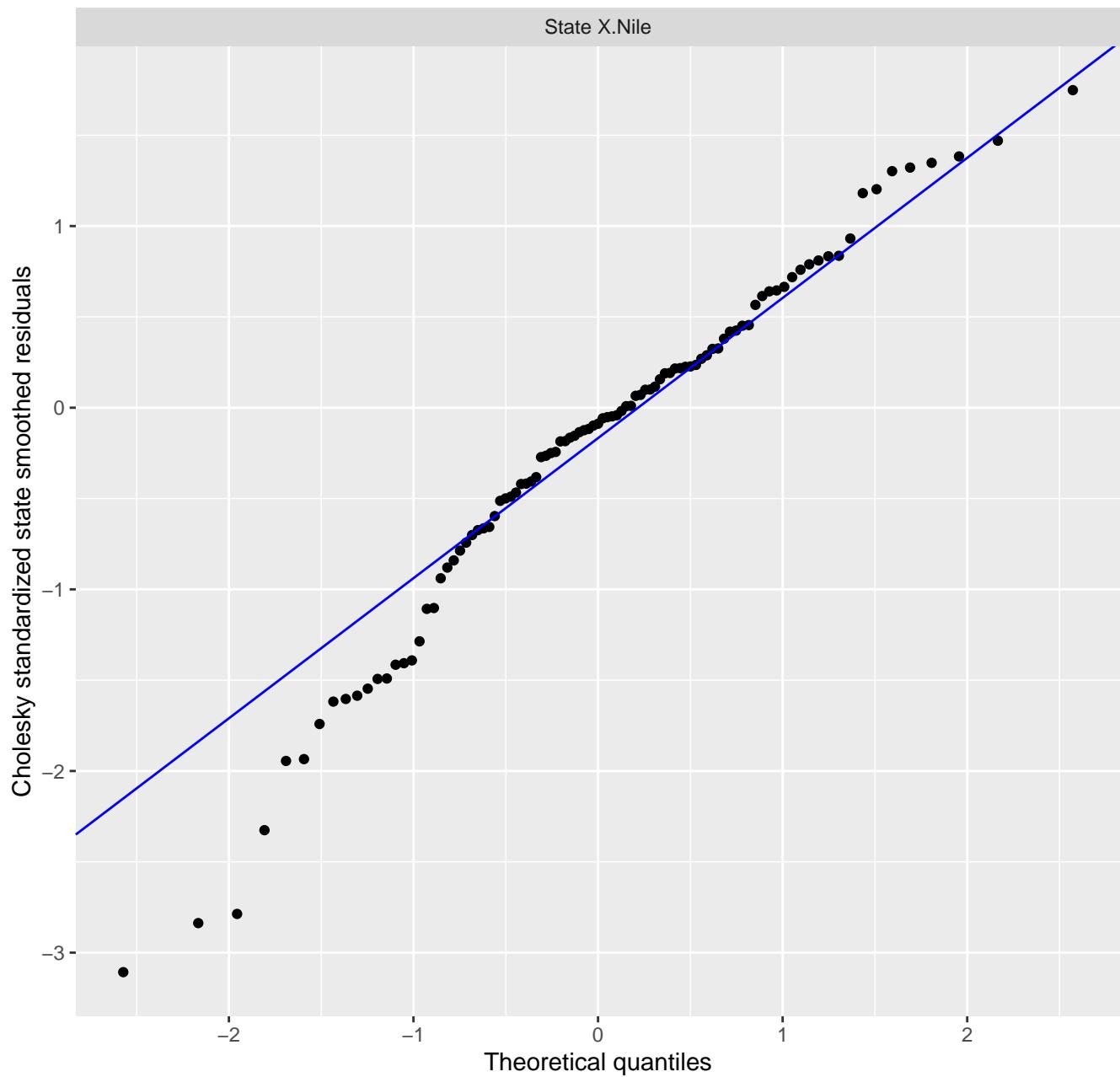
State residuals



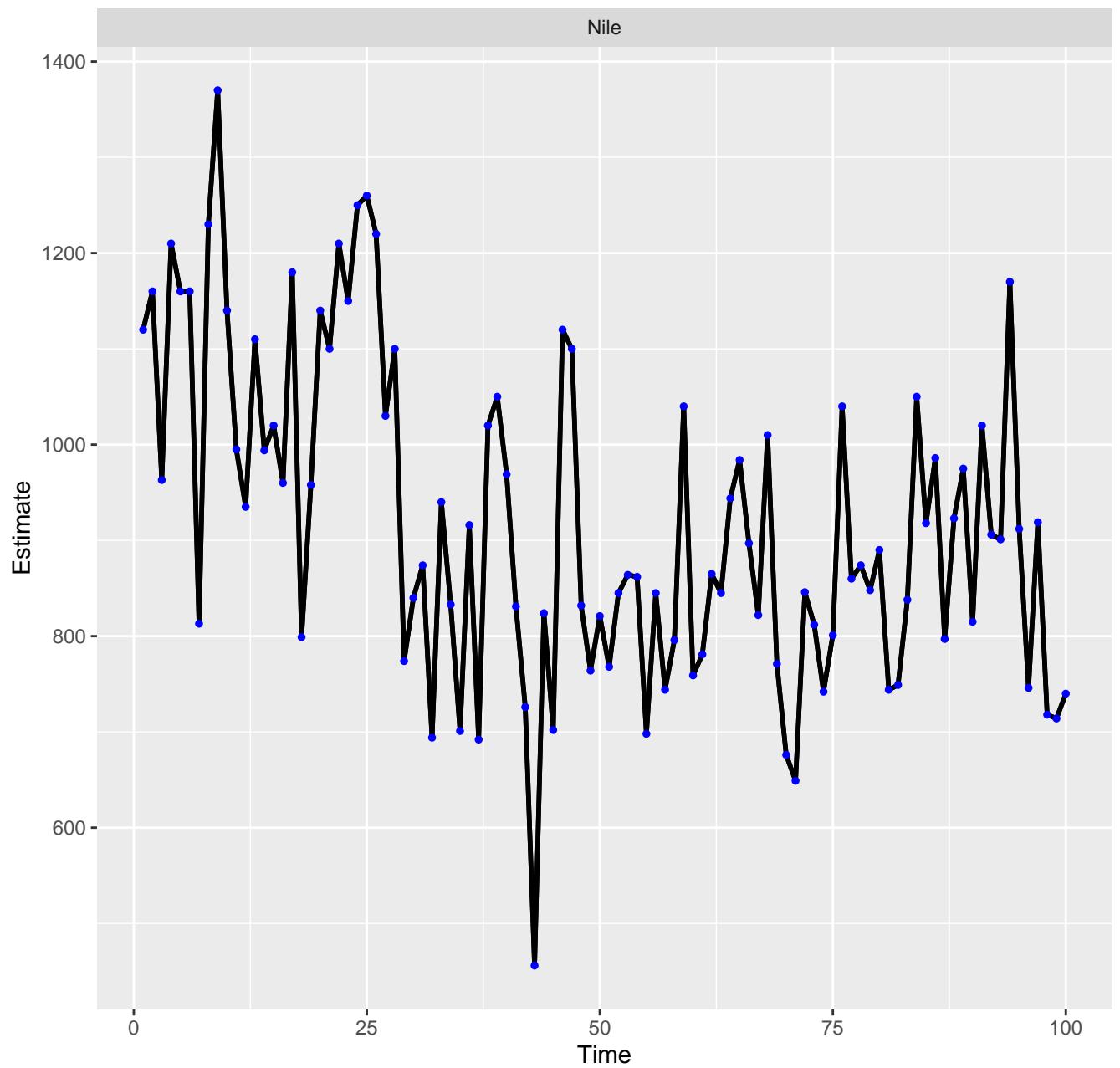
Model residuals normality test



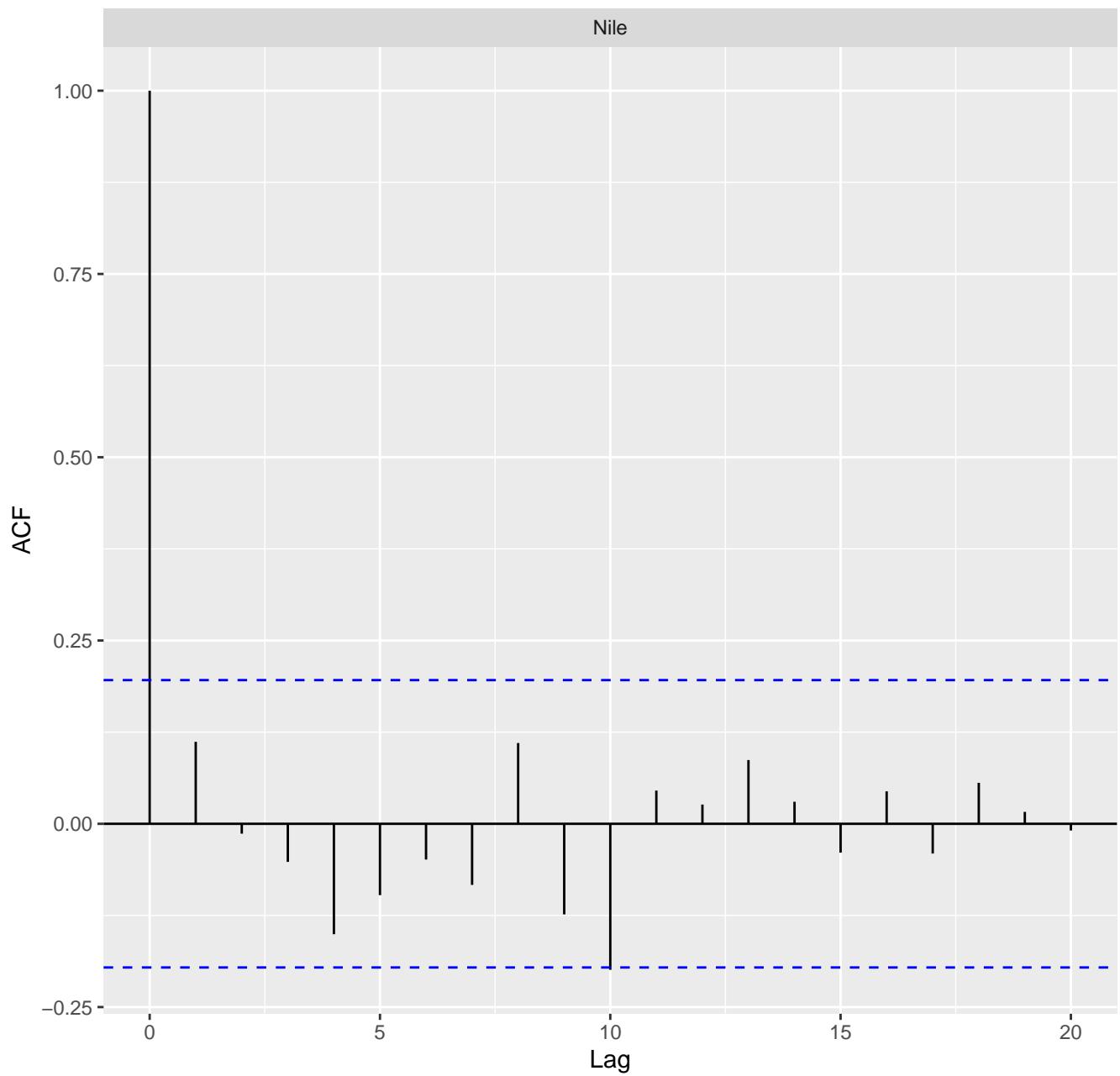
State residuals normality test



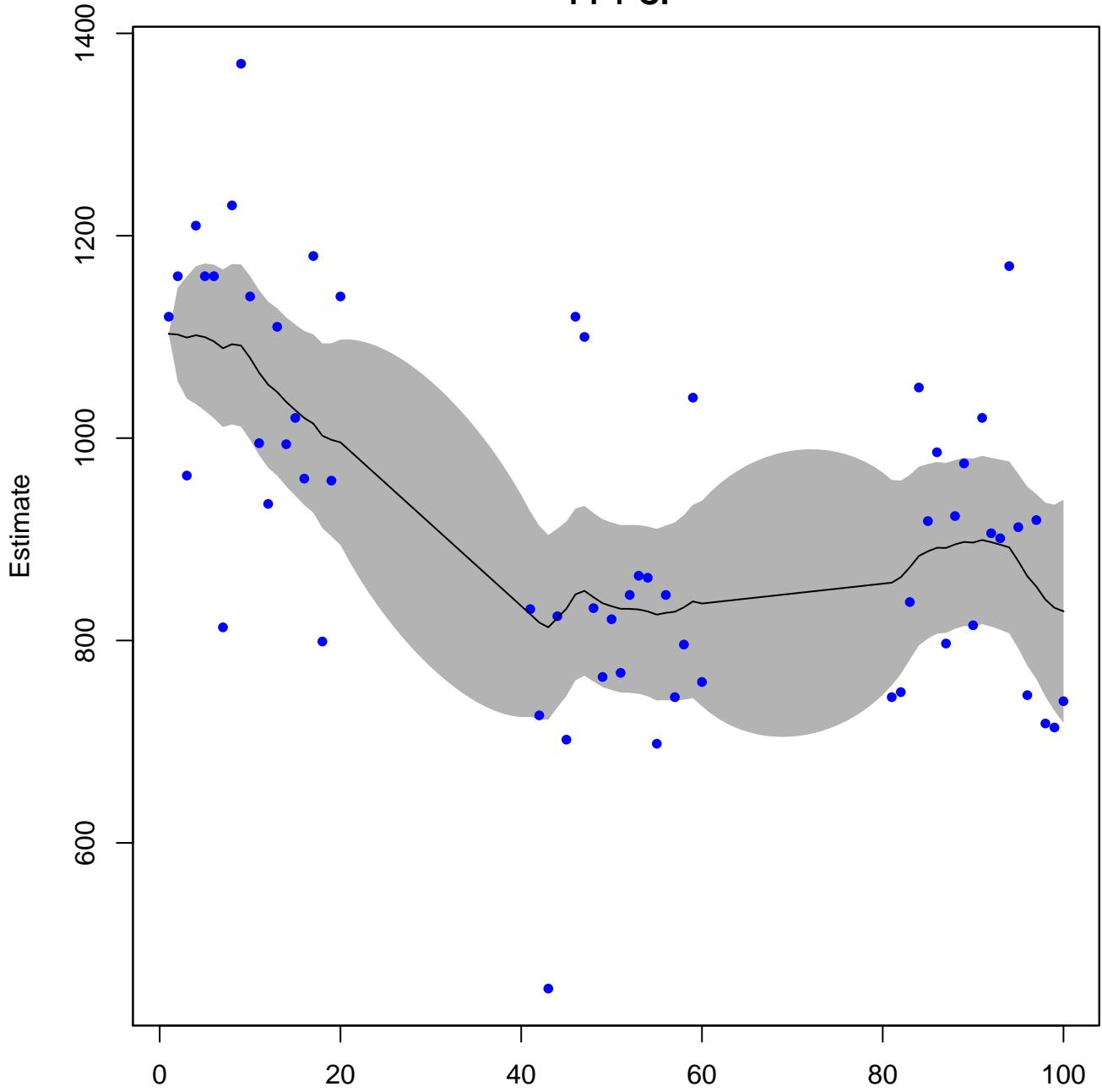
Expected value of Y conditioned on data



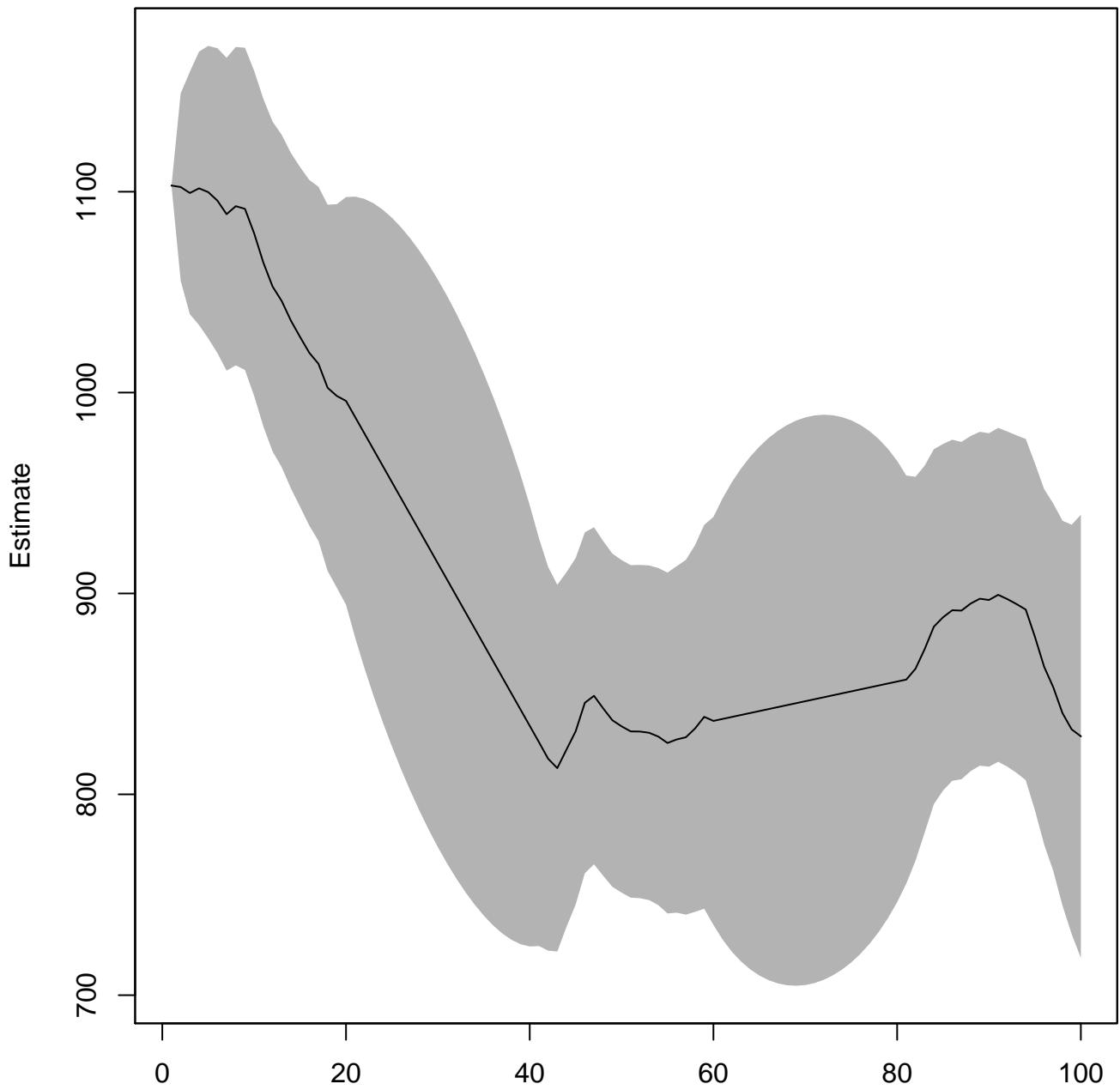
Model innovations residuals ACF

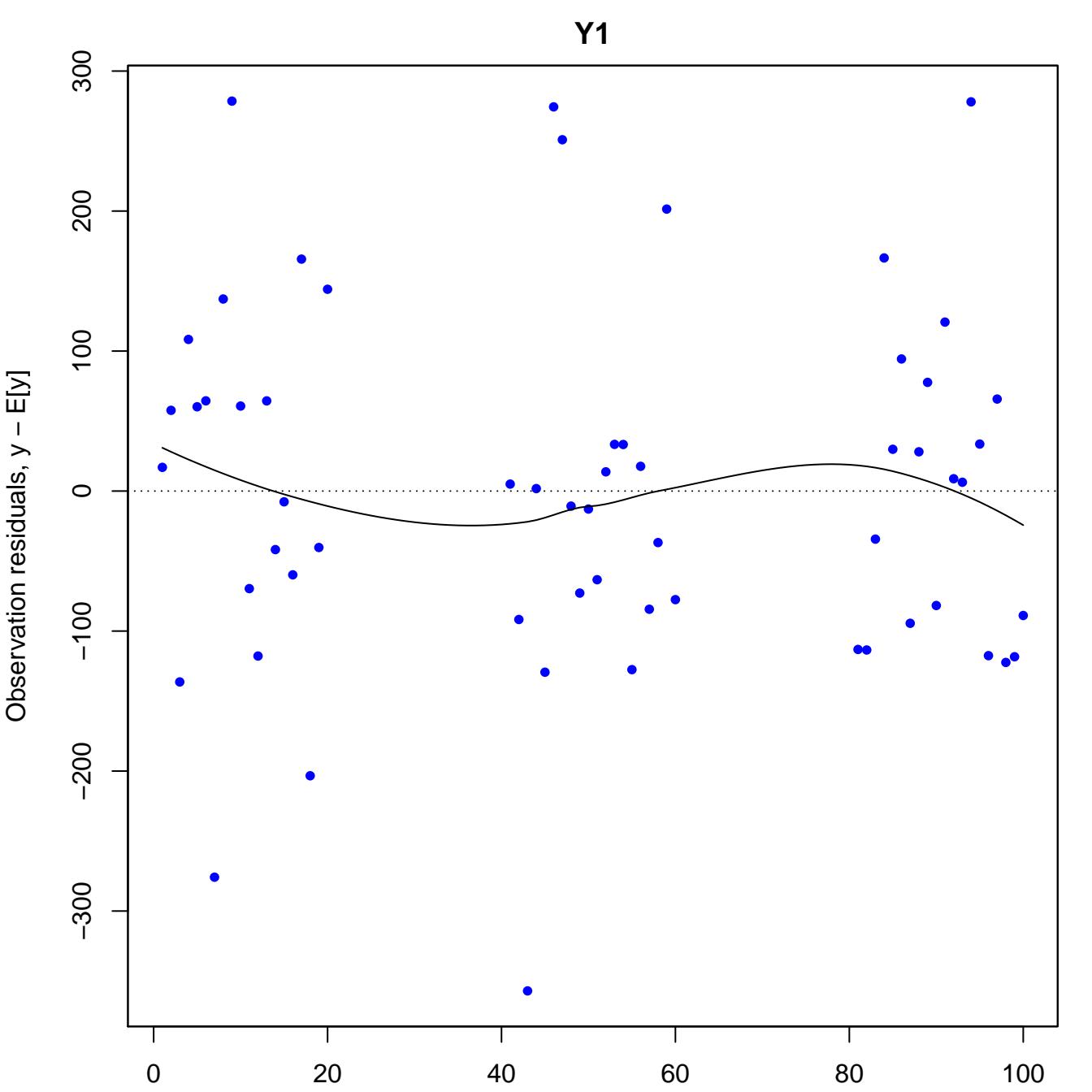


Y1 + CI

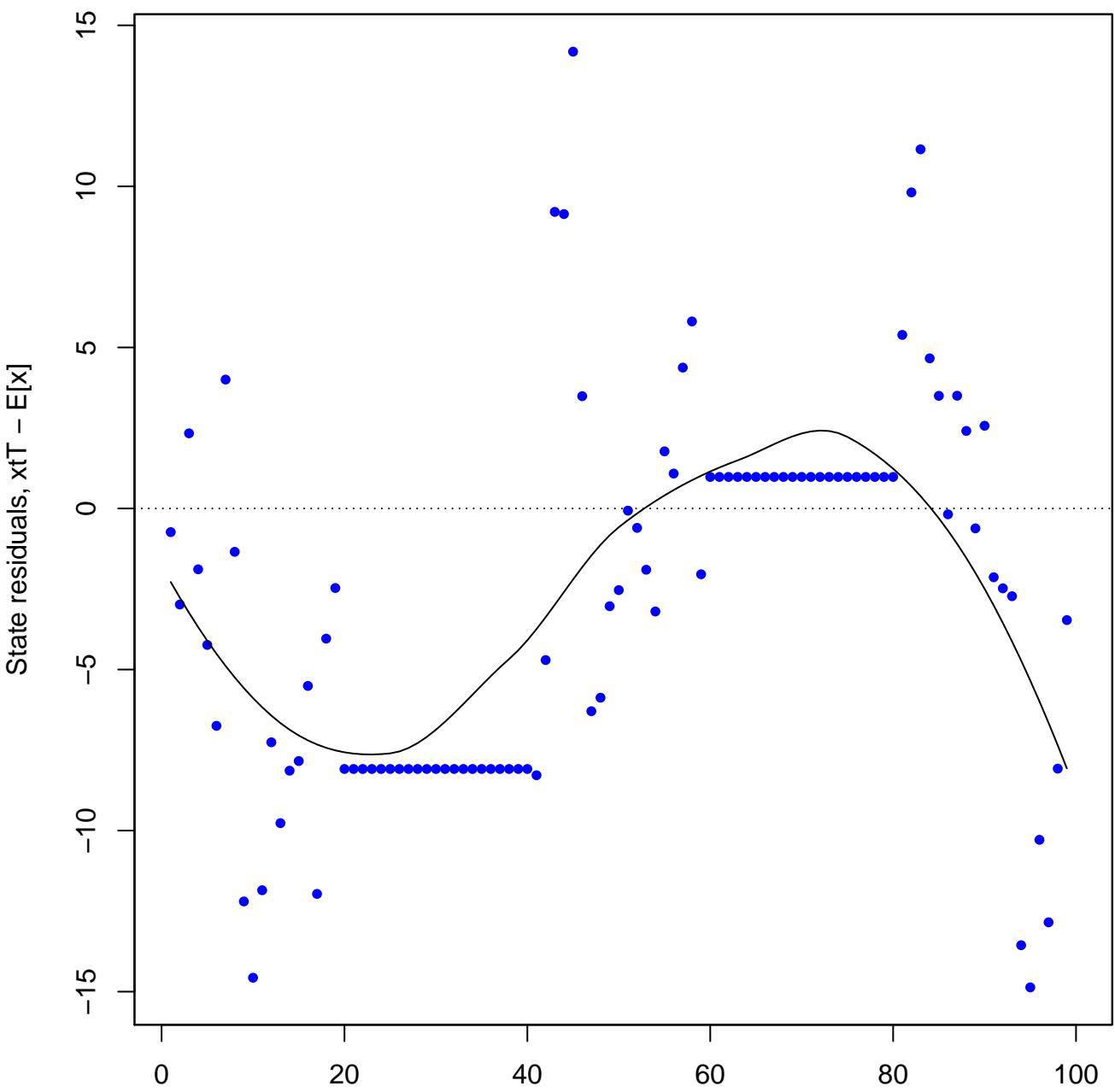


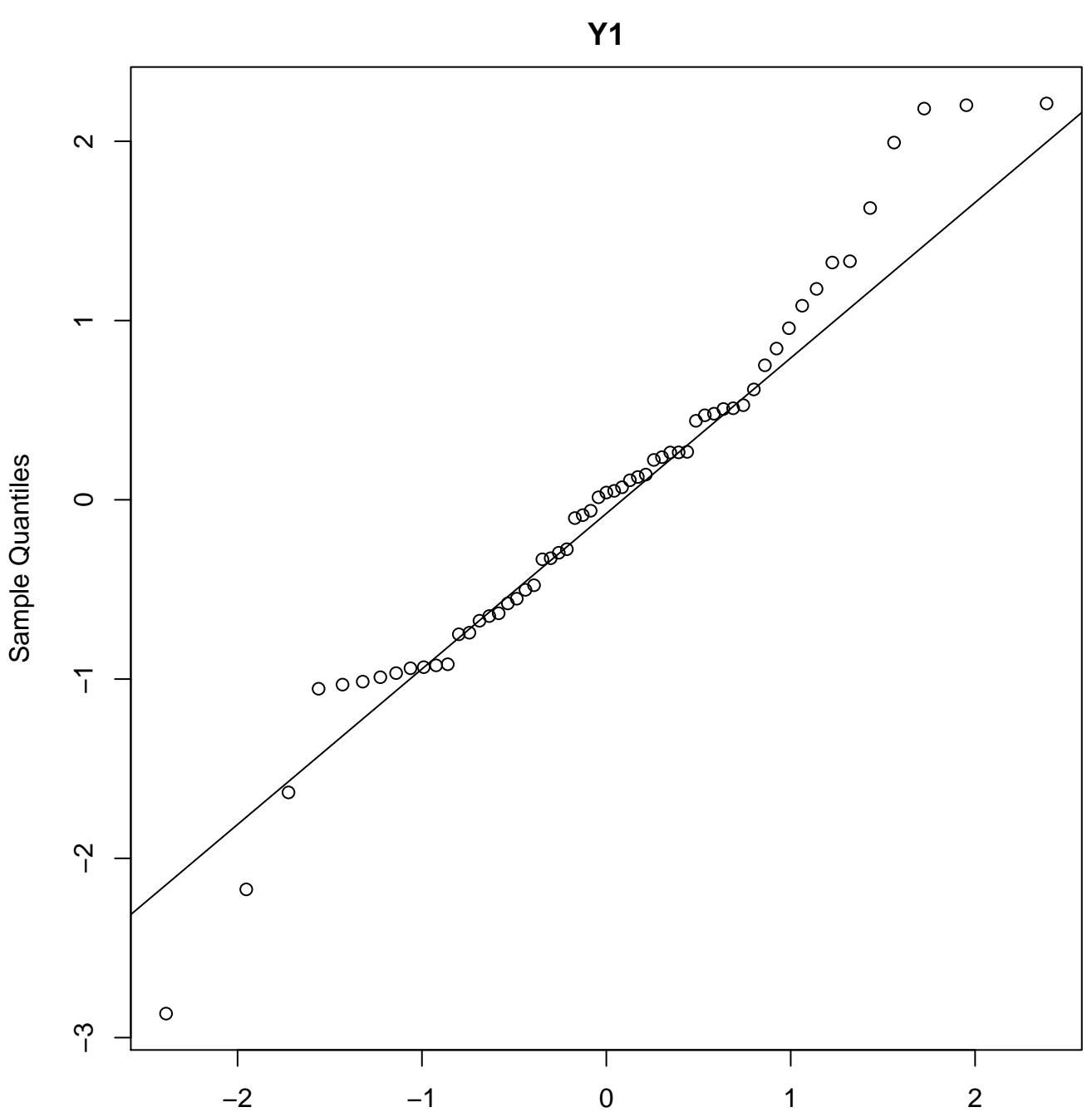
State X.Y1



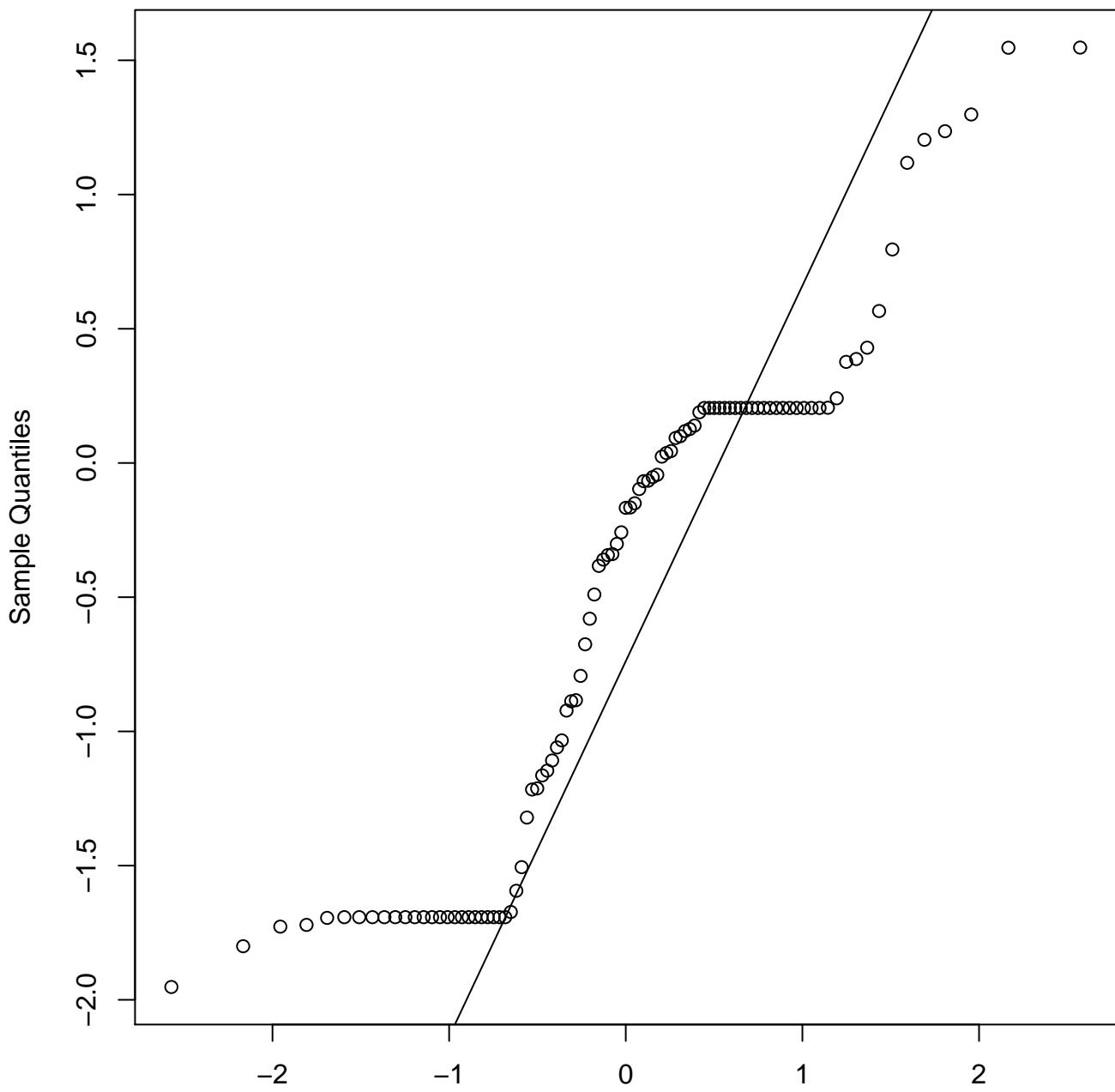


State X.Y1

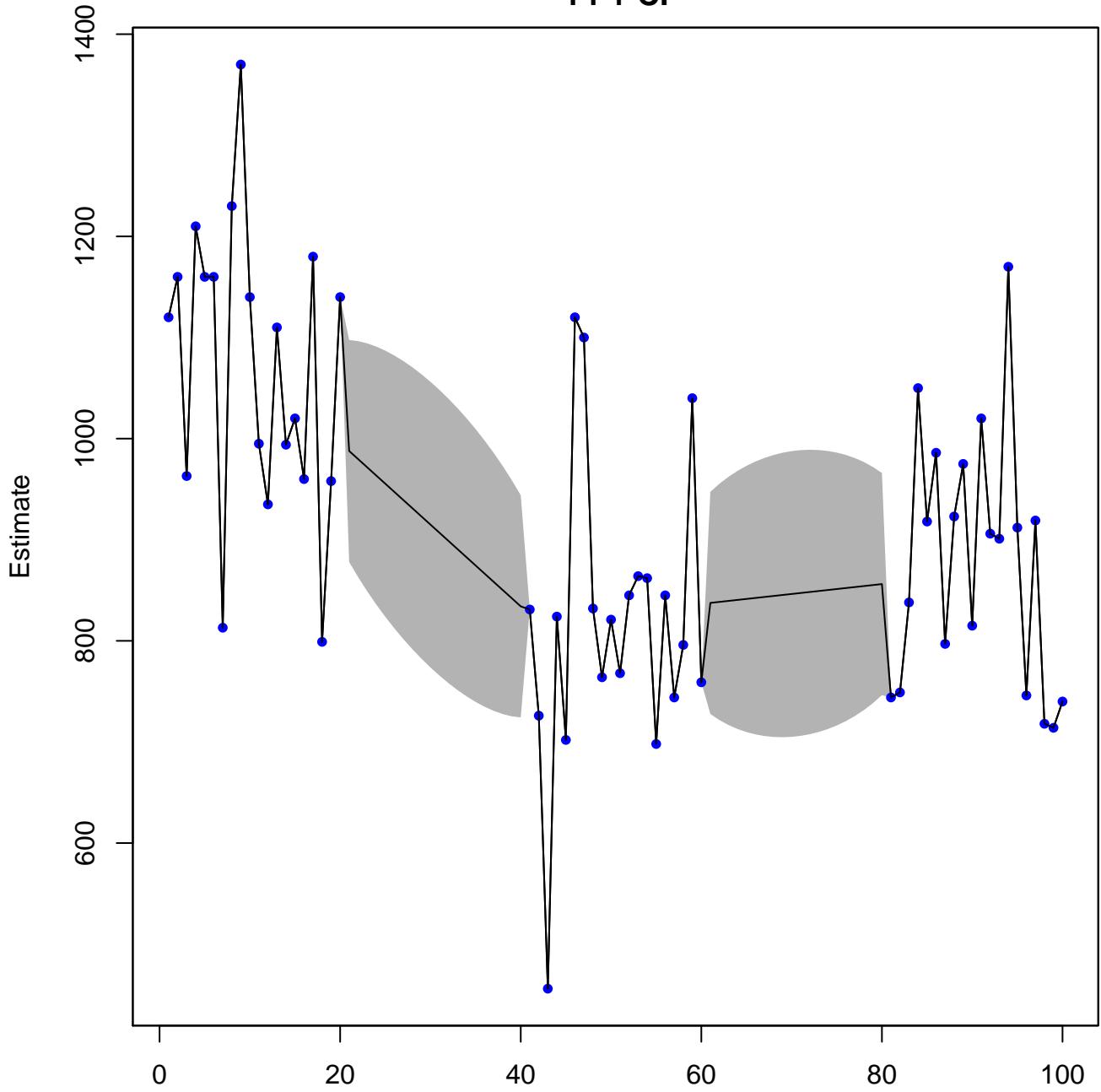




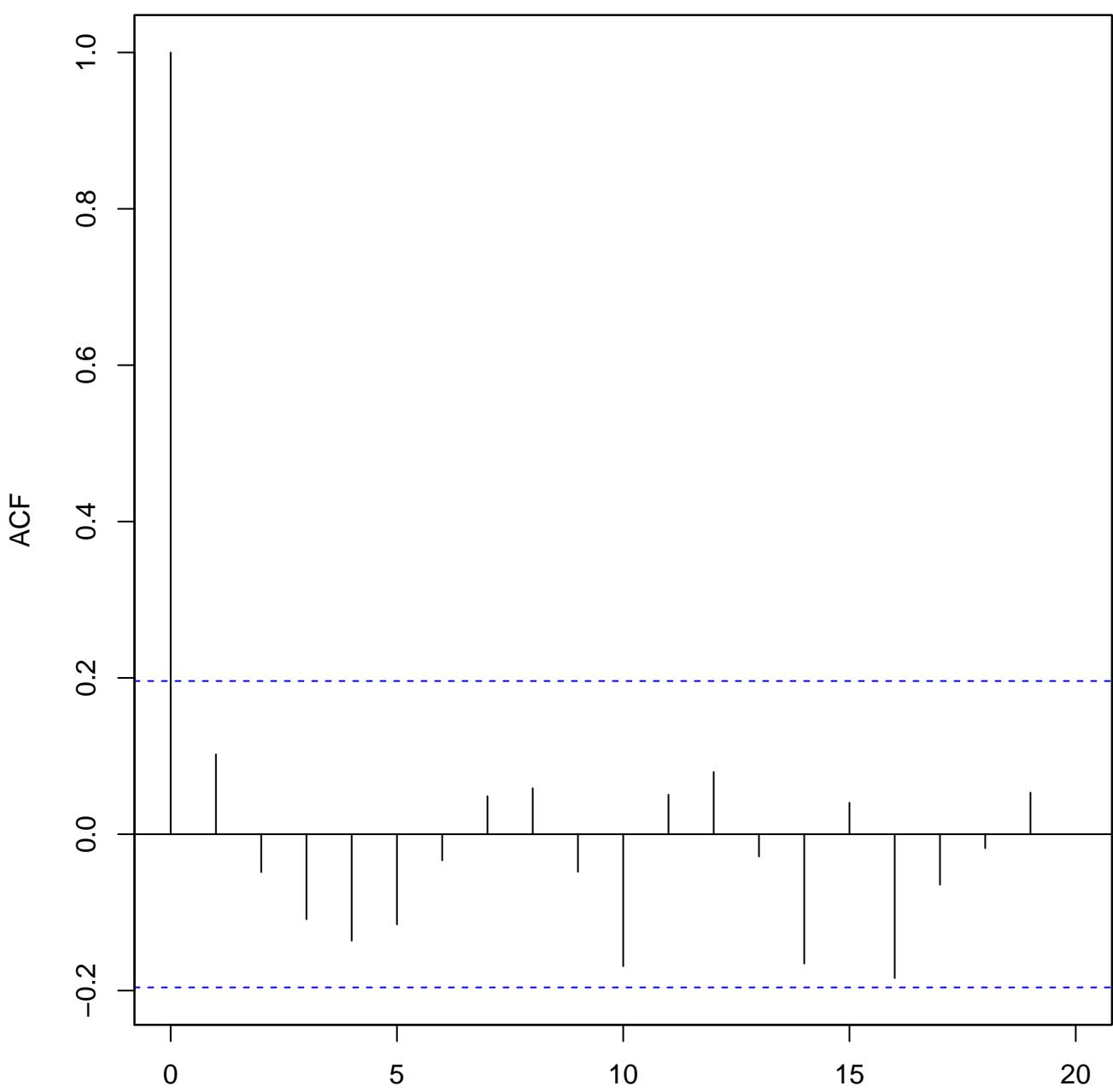
State X.Y1



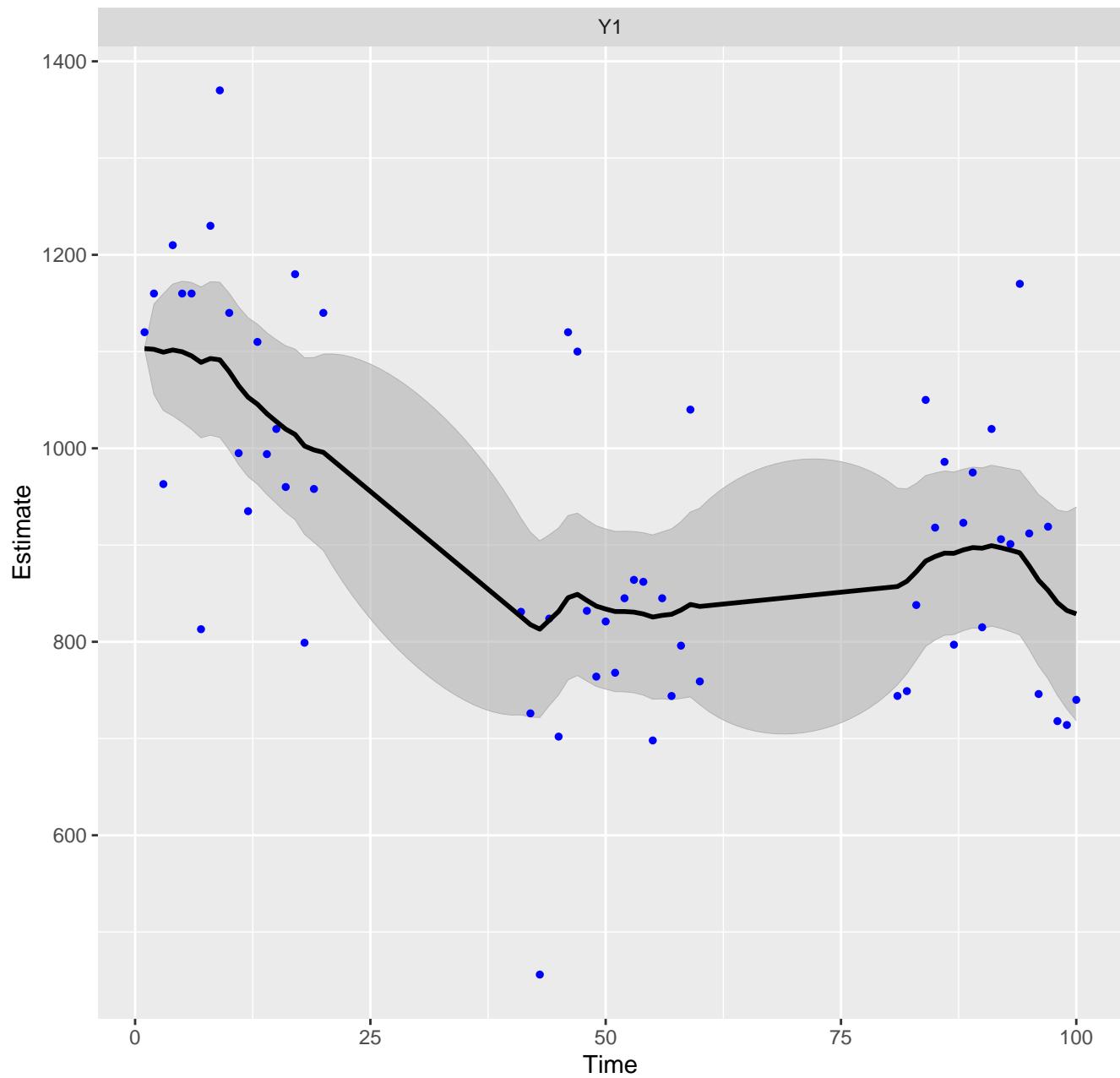
Y1 + CI



Y1



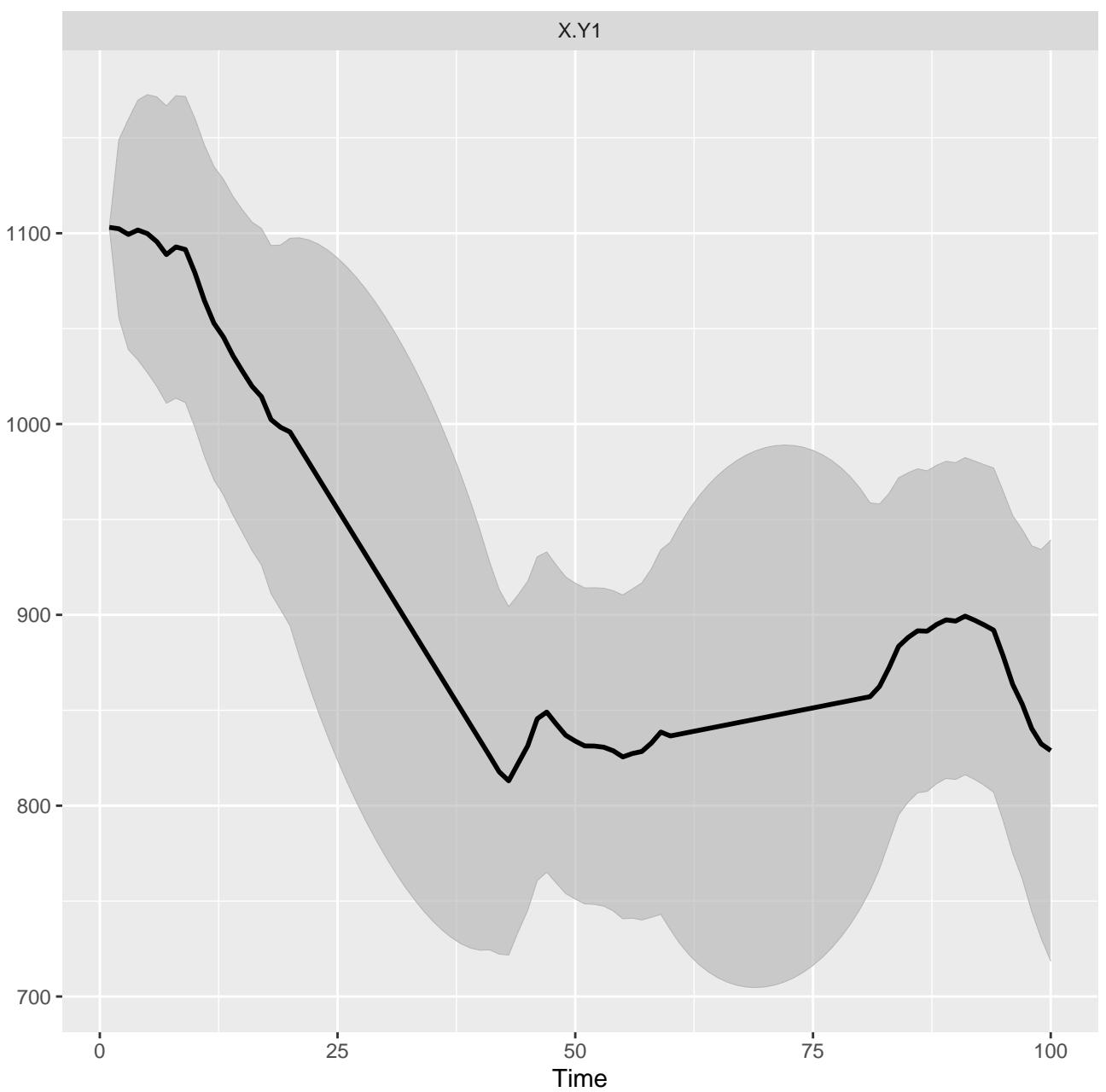
Model fitted Y + CI



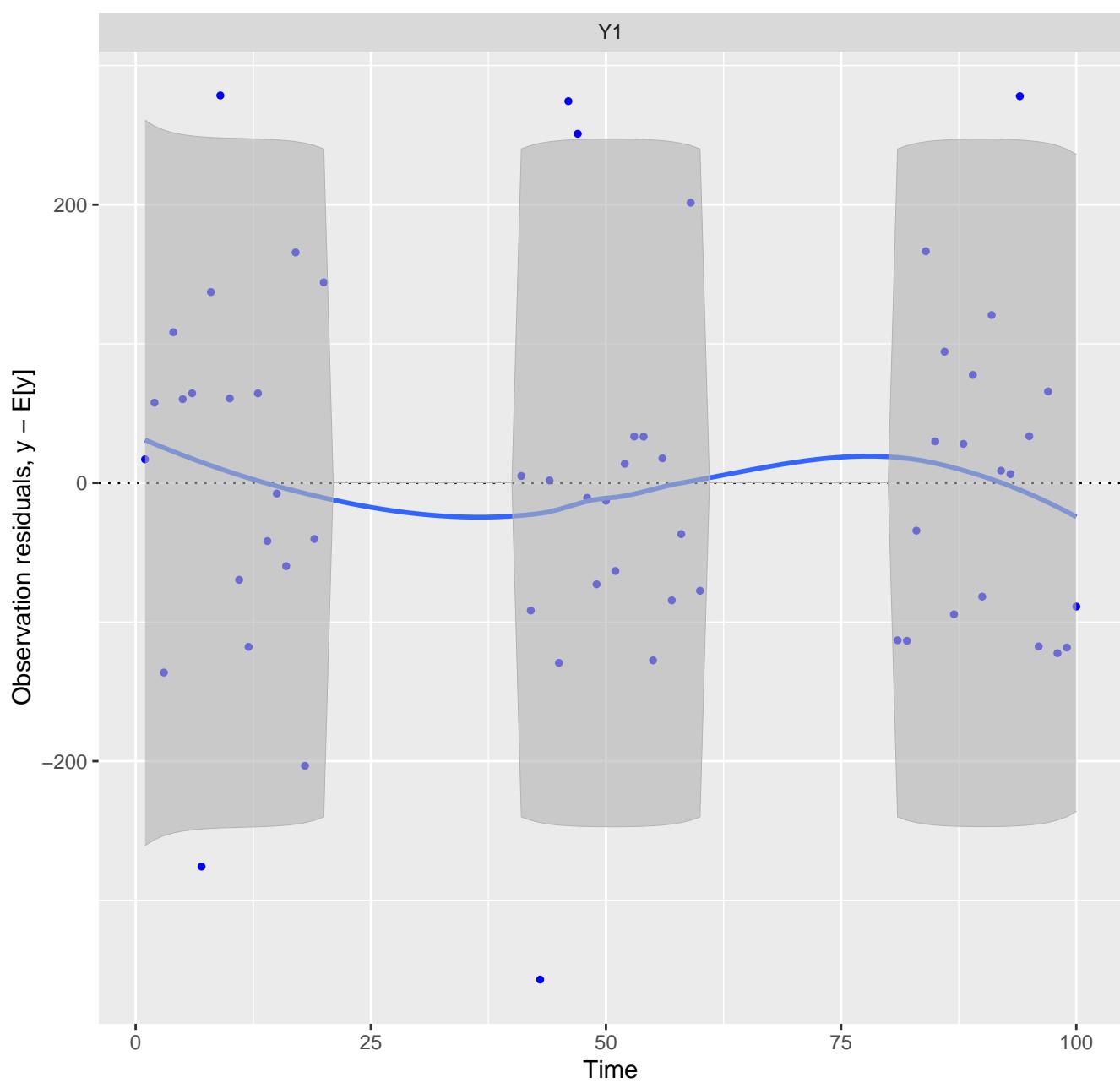
States

X.Y1

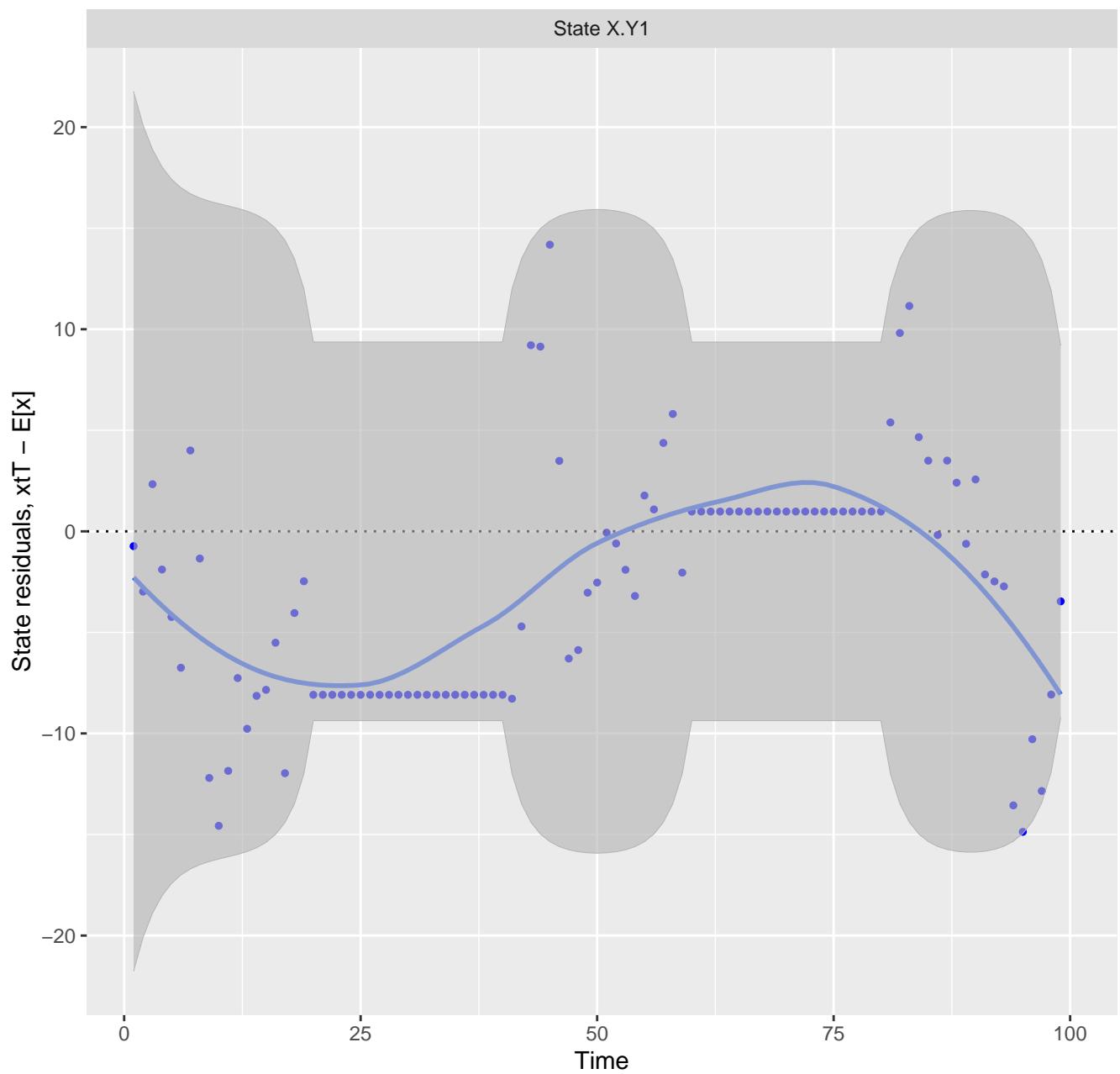
Estimate



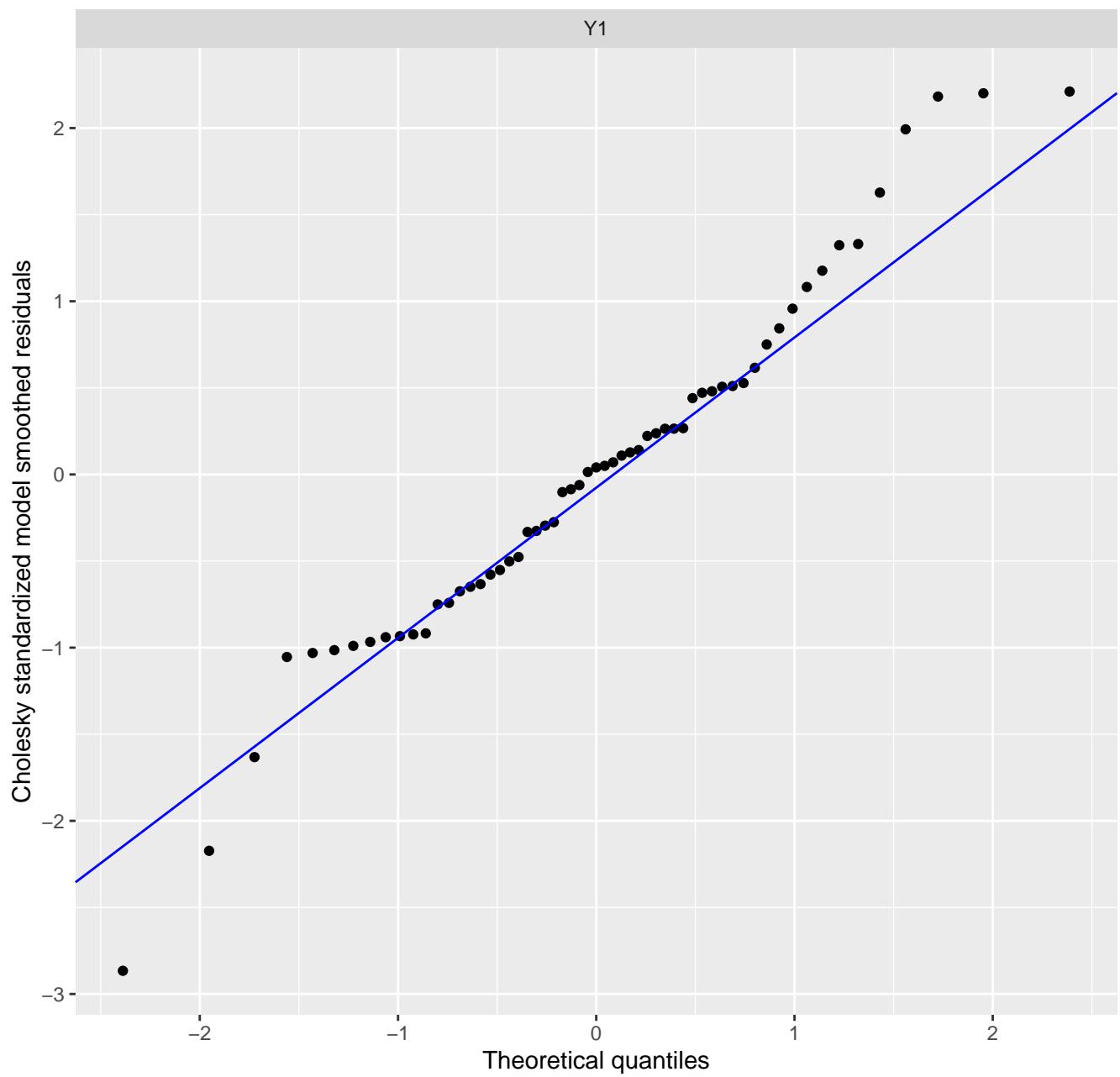
Model residuals



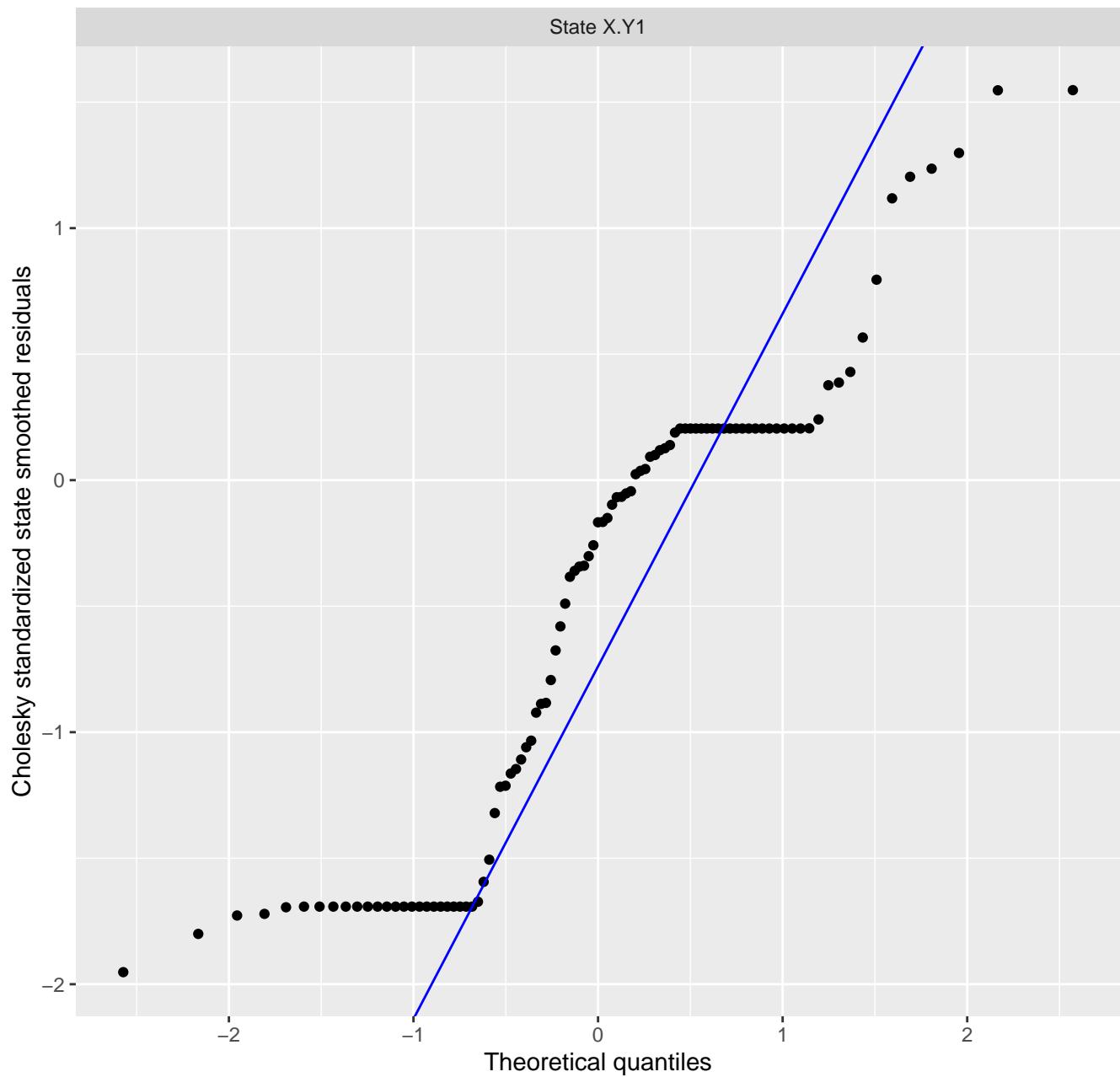
State residuals



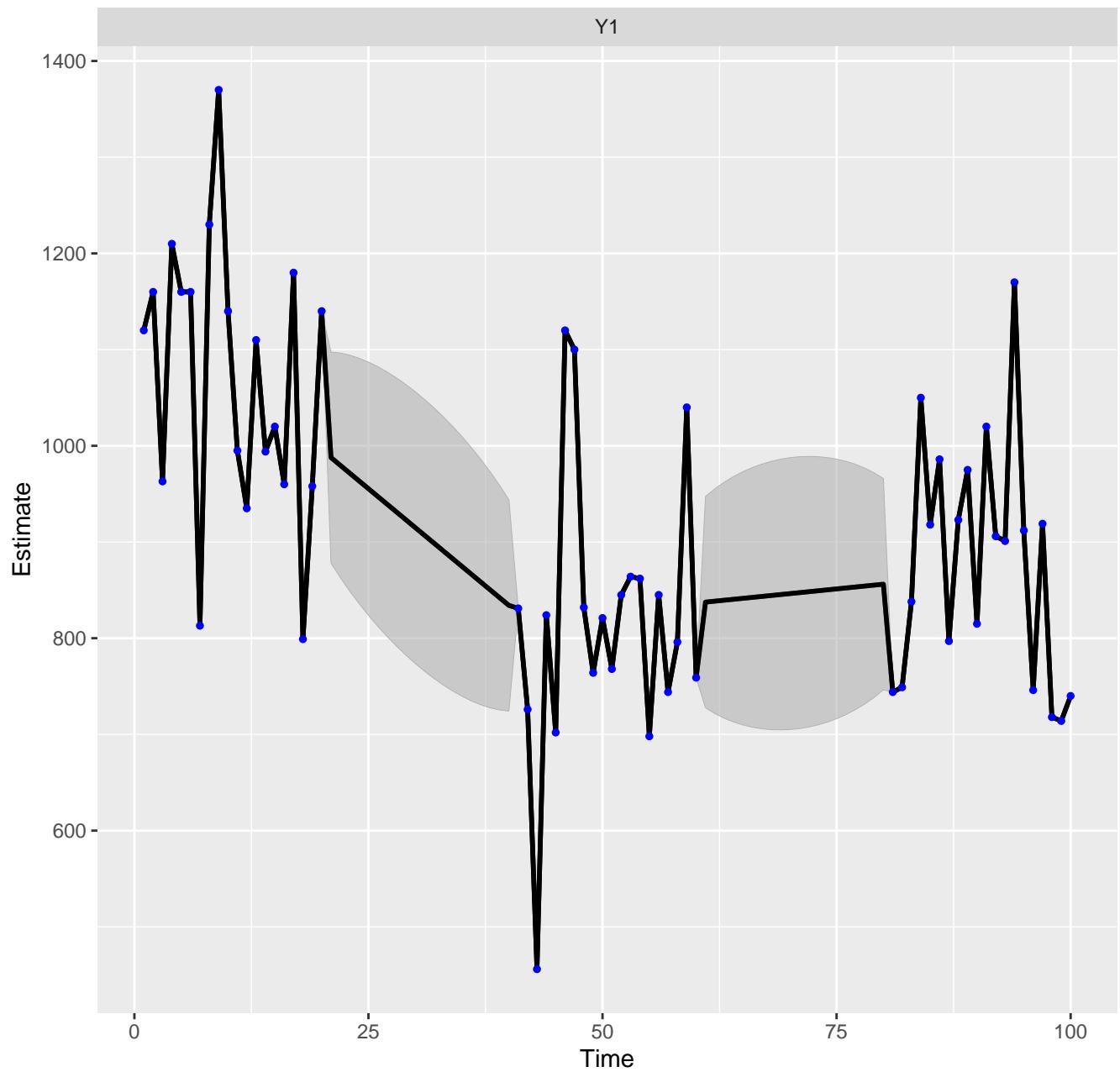
Model residuals normality test



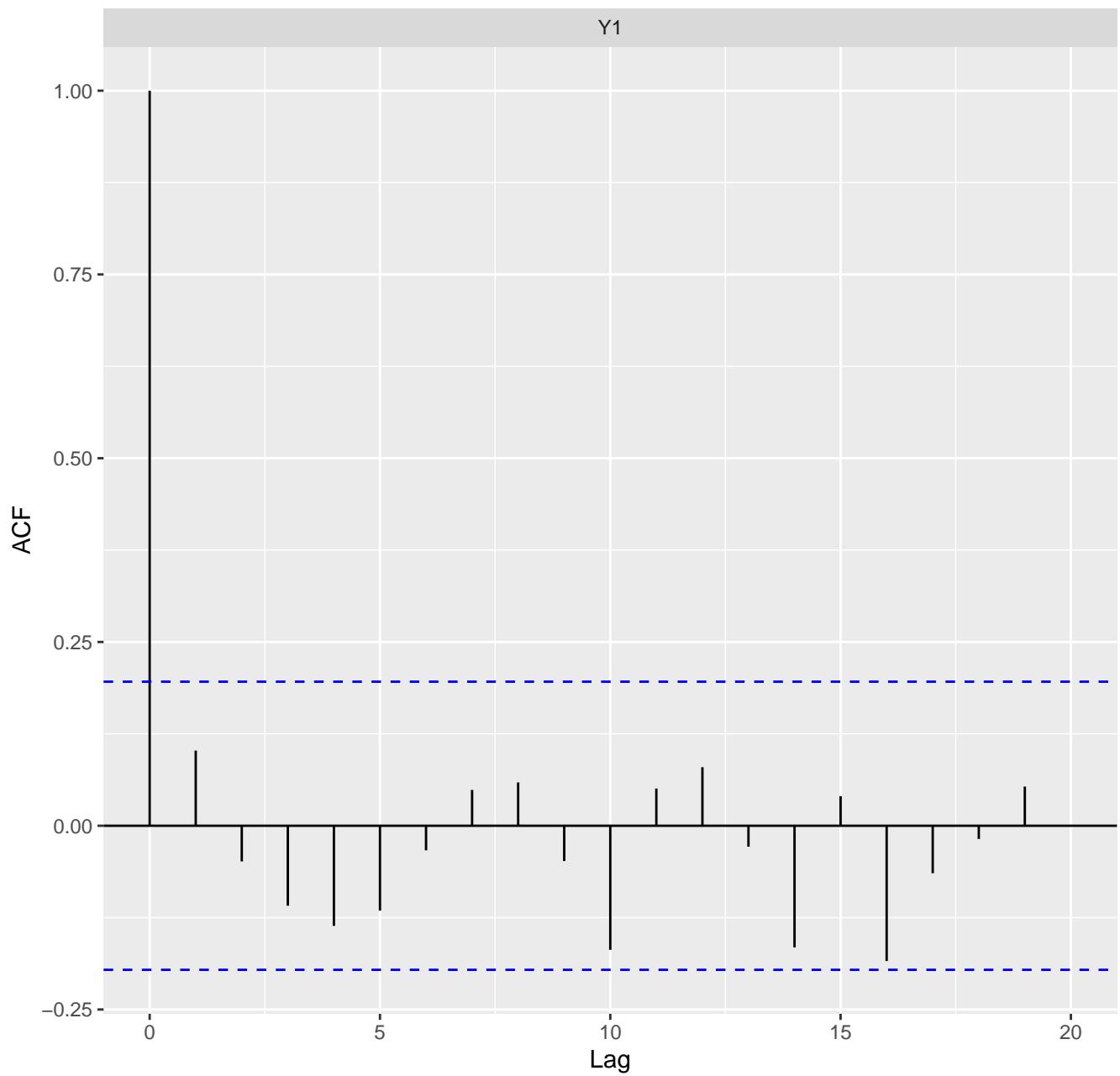
State residuals normality test



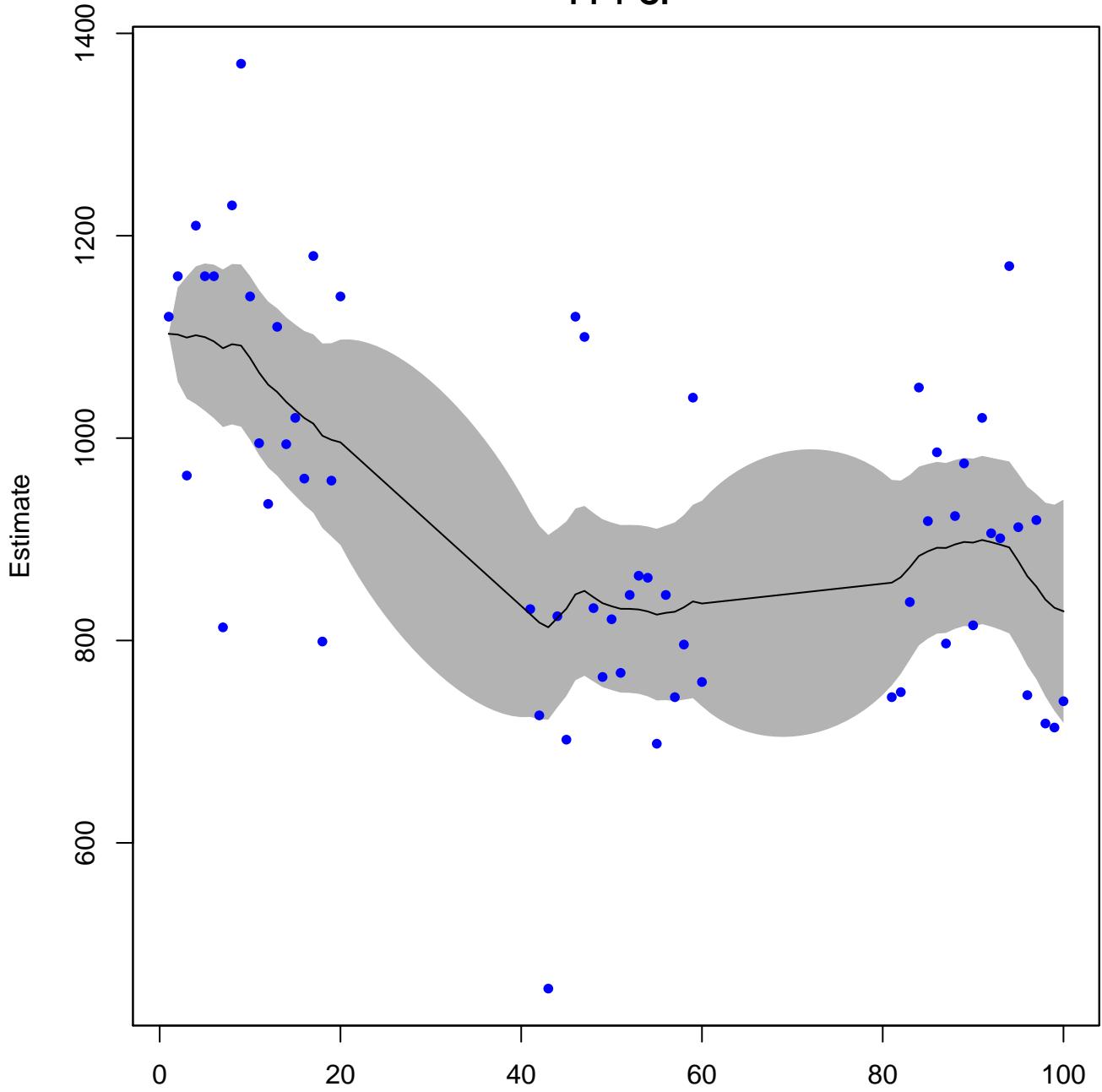
Expected value of Y conditioned on data



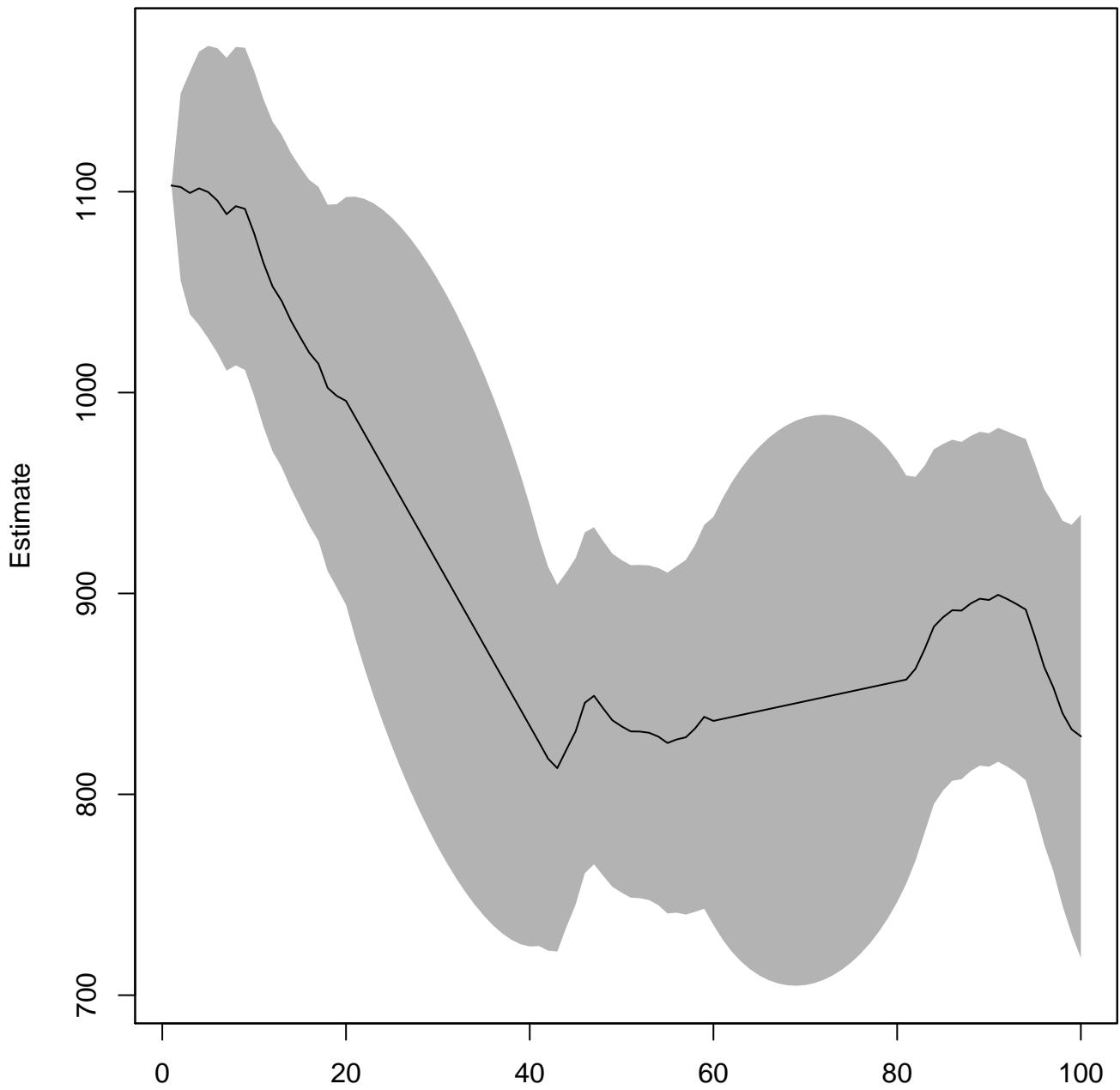
Model innovations residuals ACF

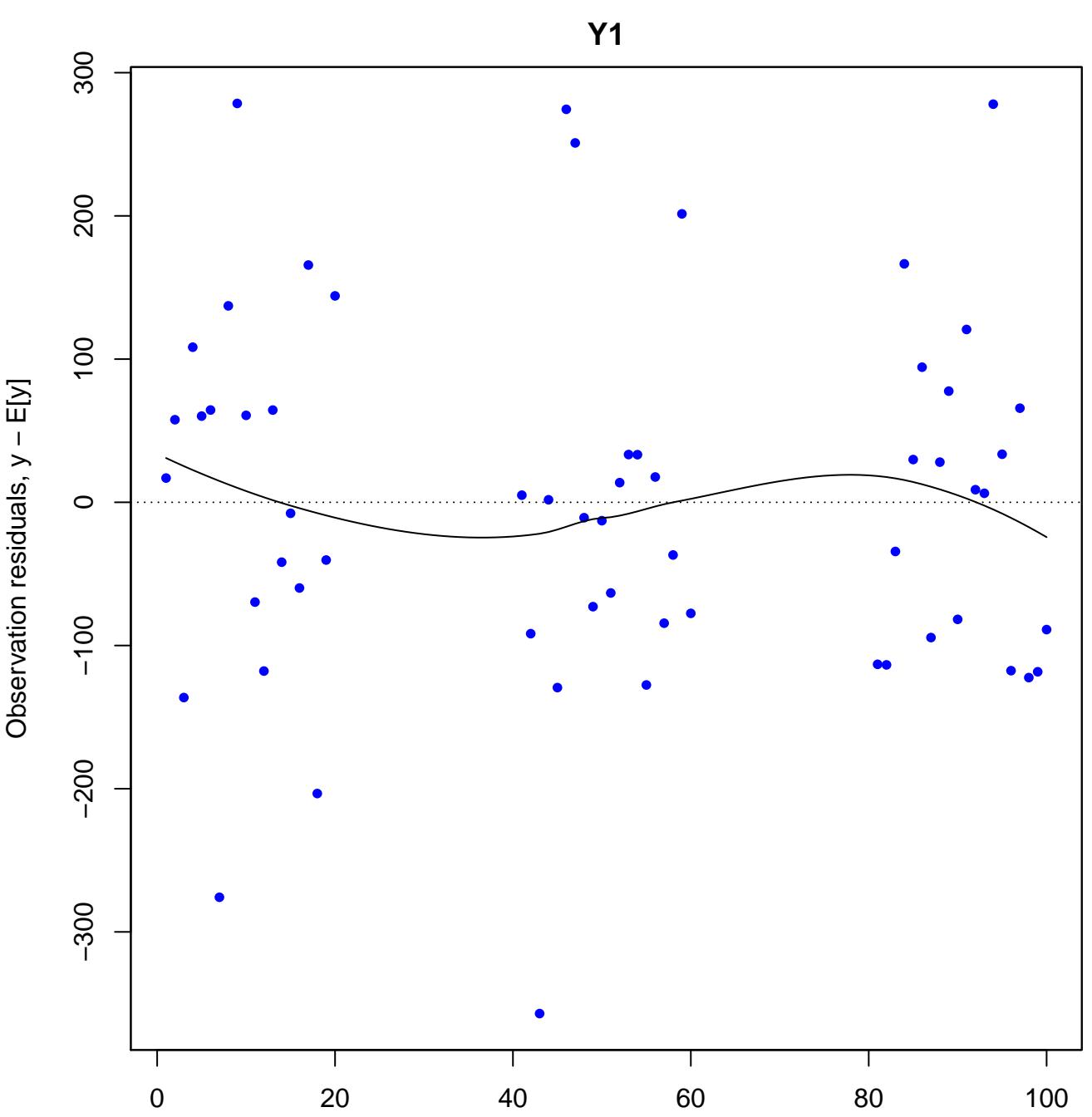


Y1 + CI

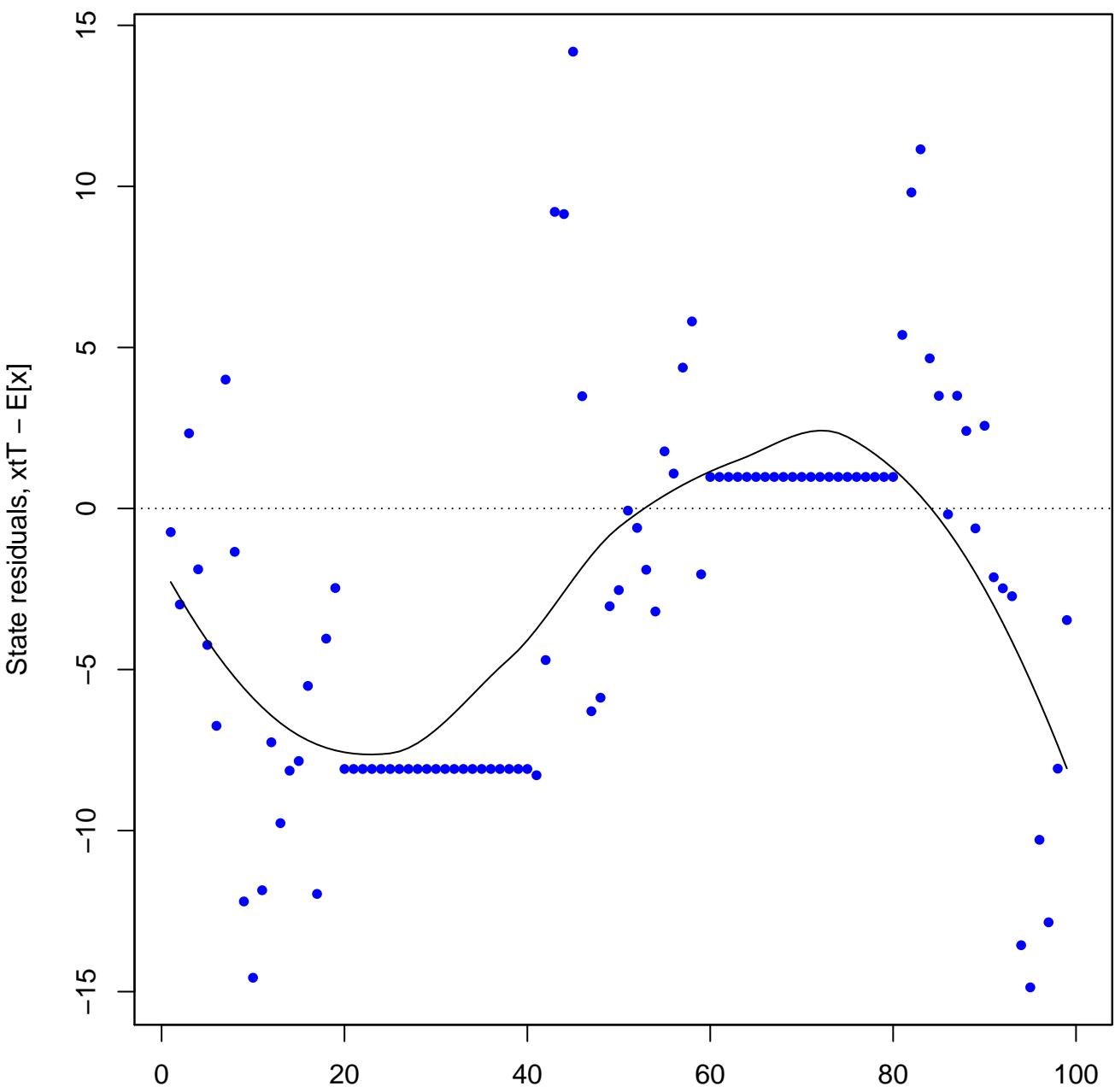


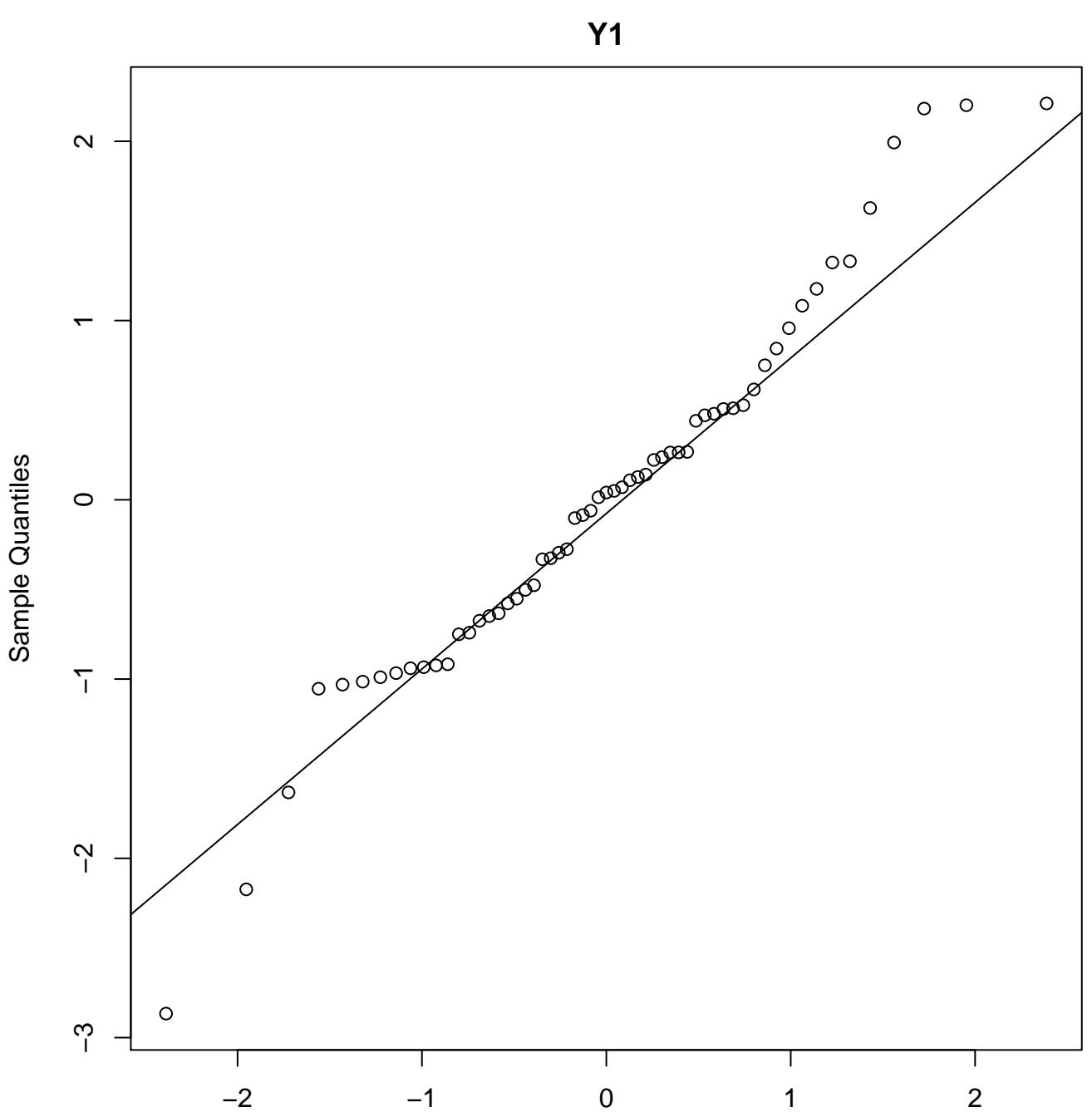
State X.Y1



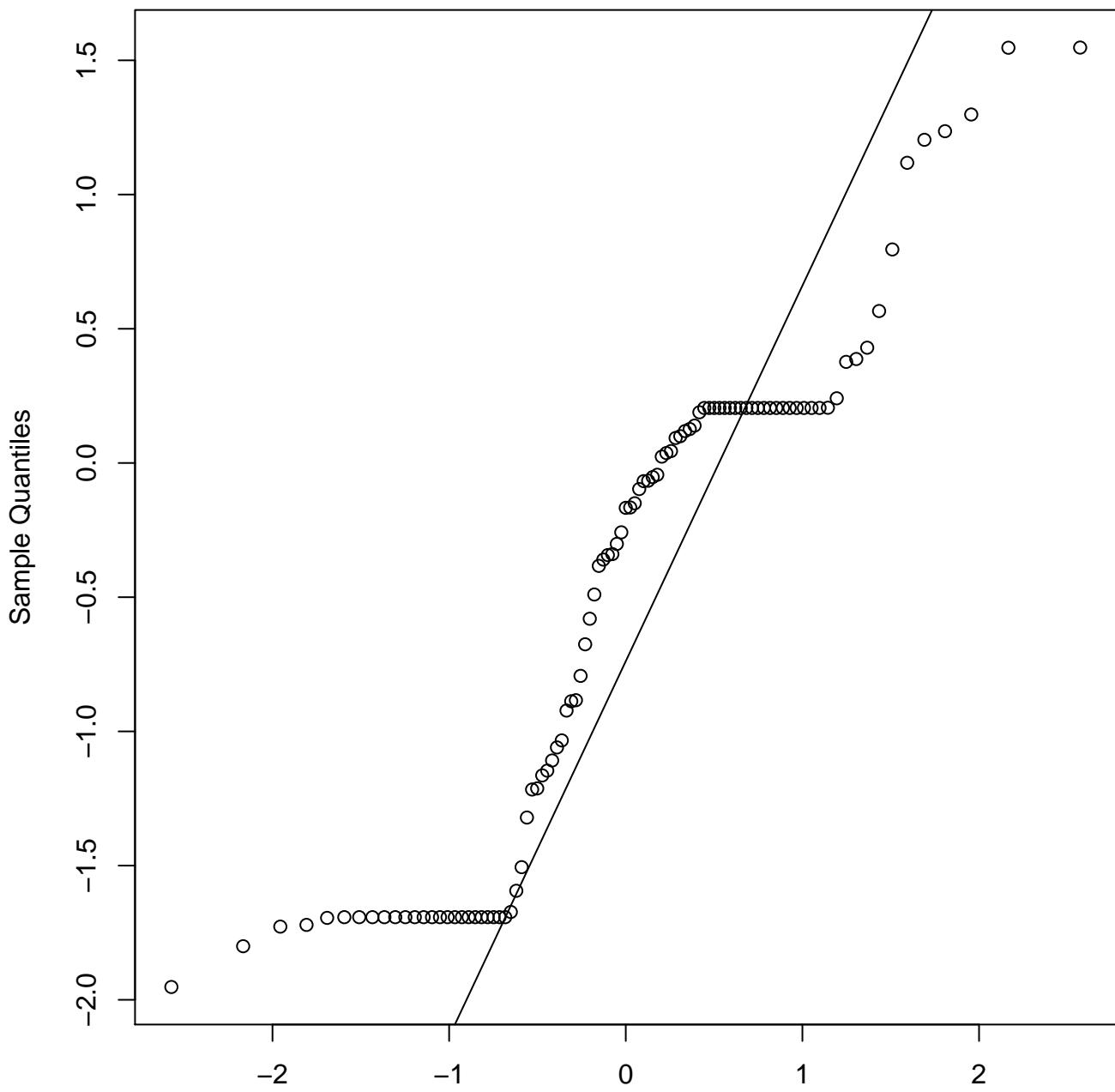


State X.Y1

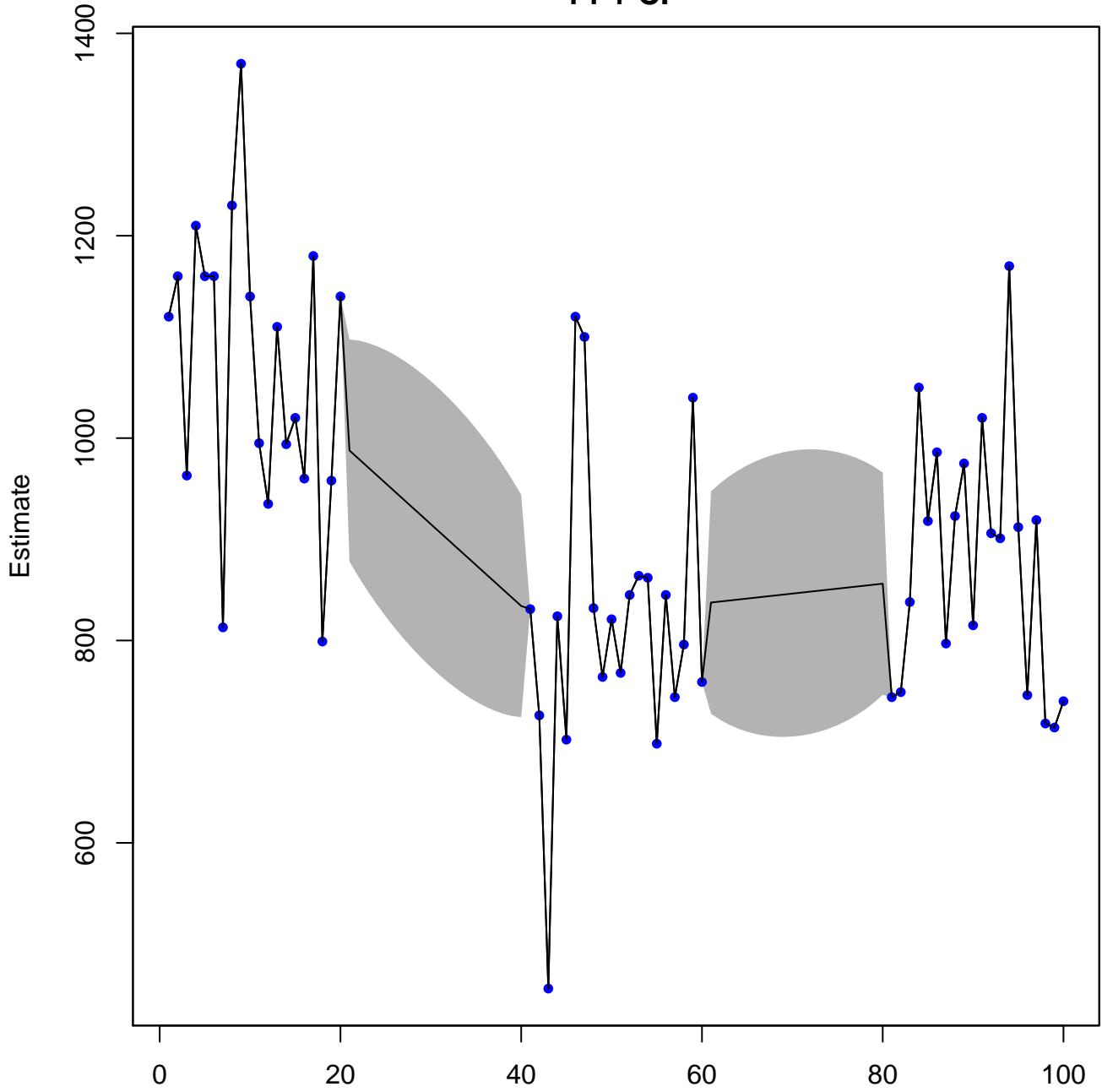




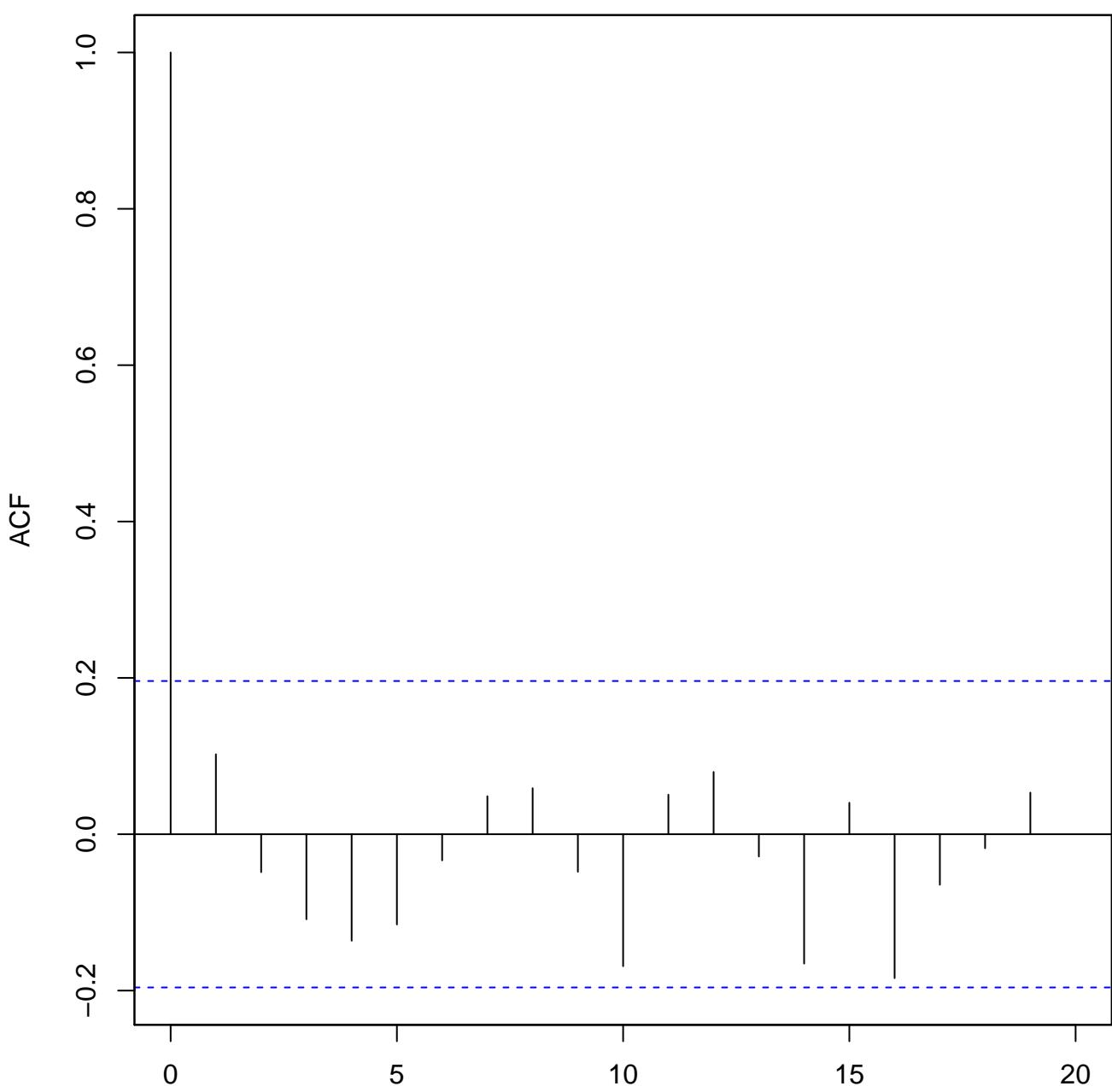
State X.Y1



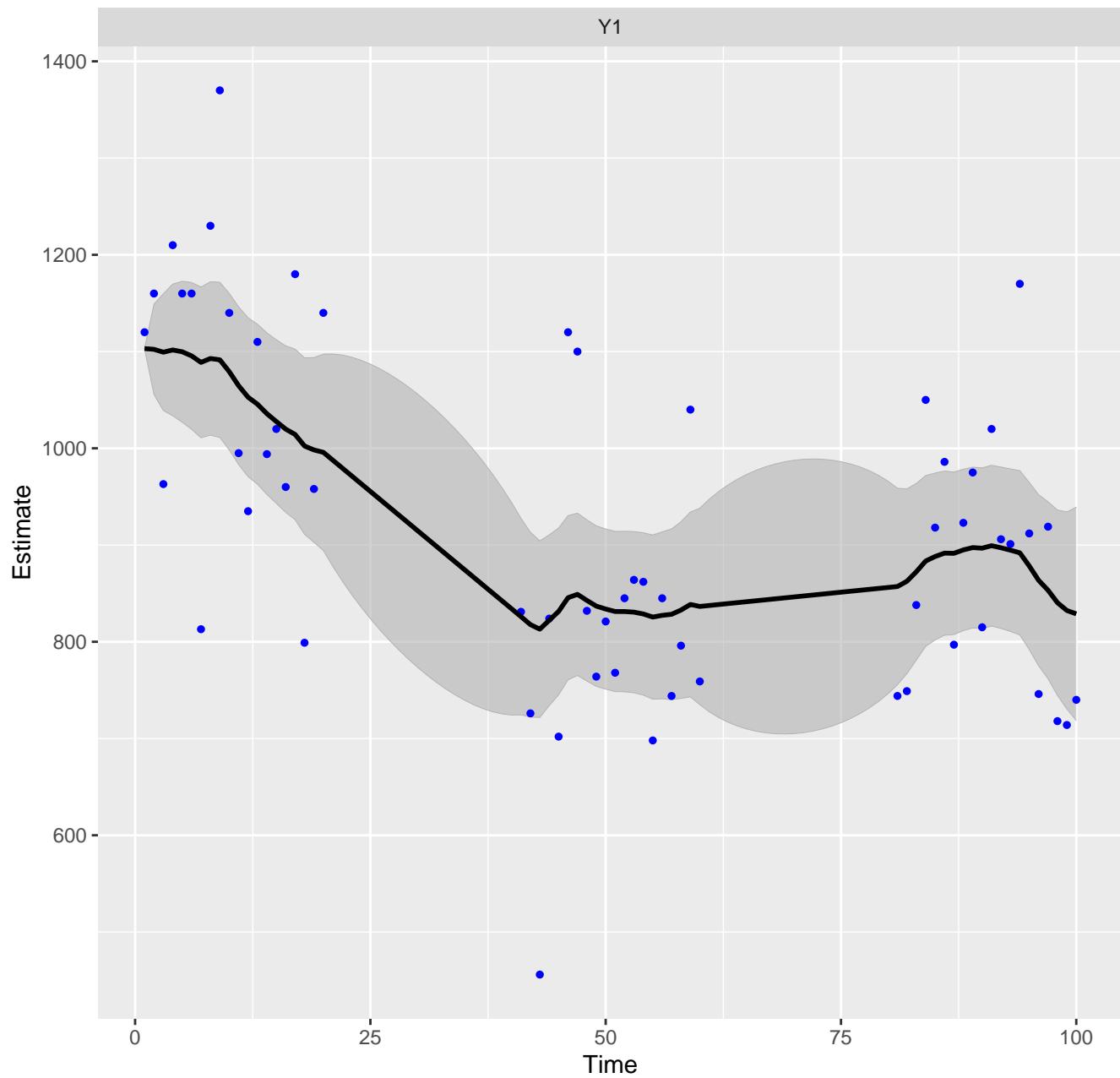
Y1 + CI



Y1



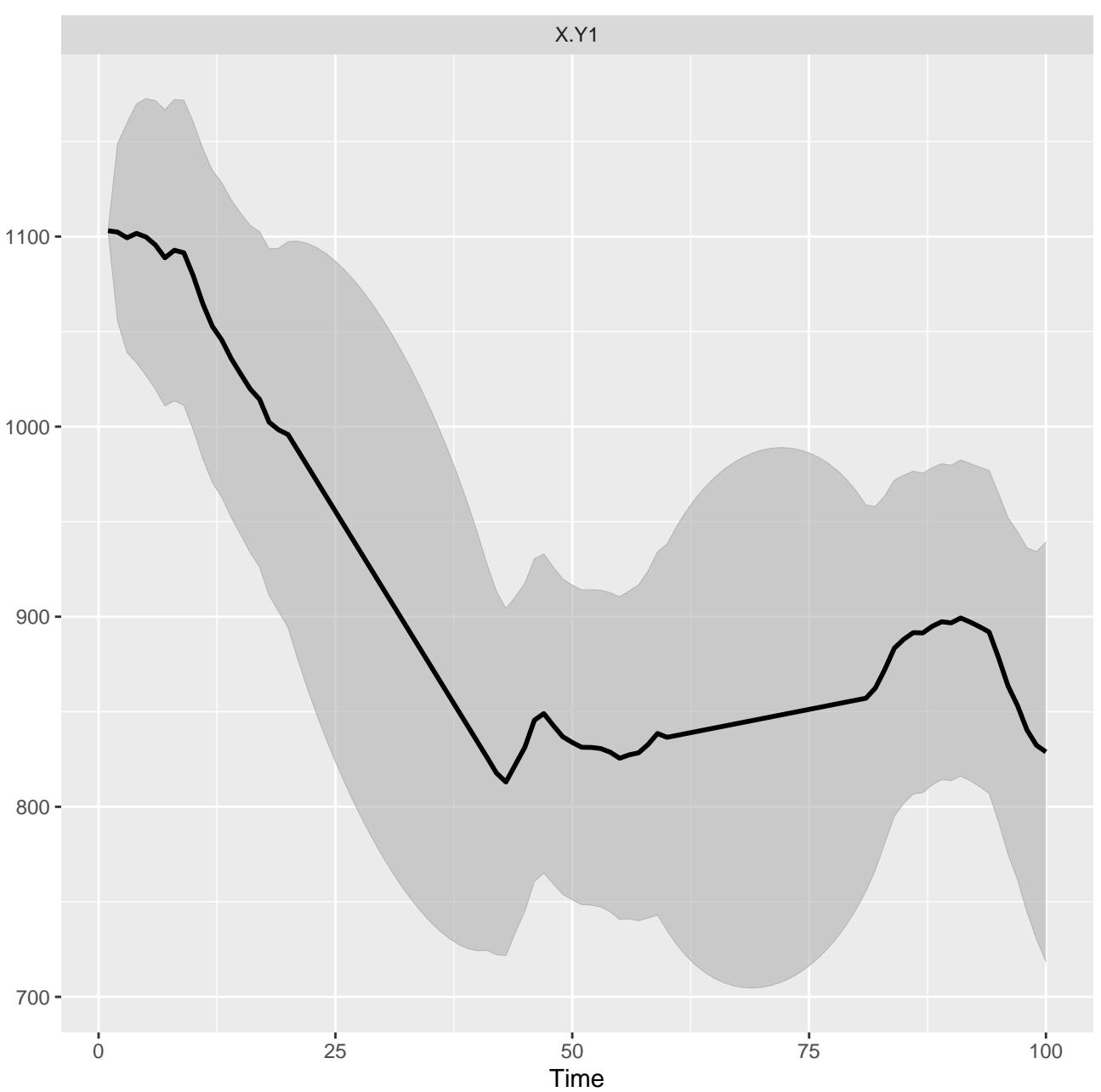
Model fitted Y + CI



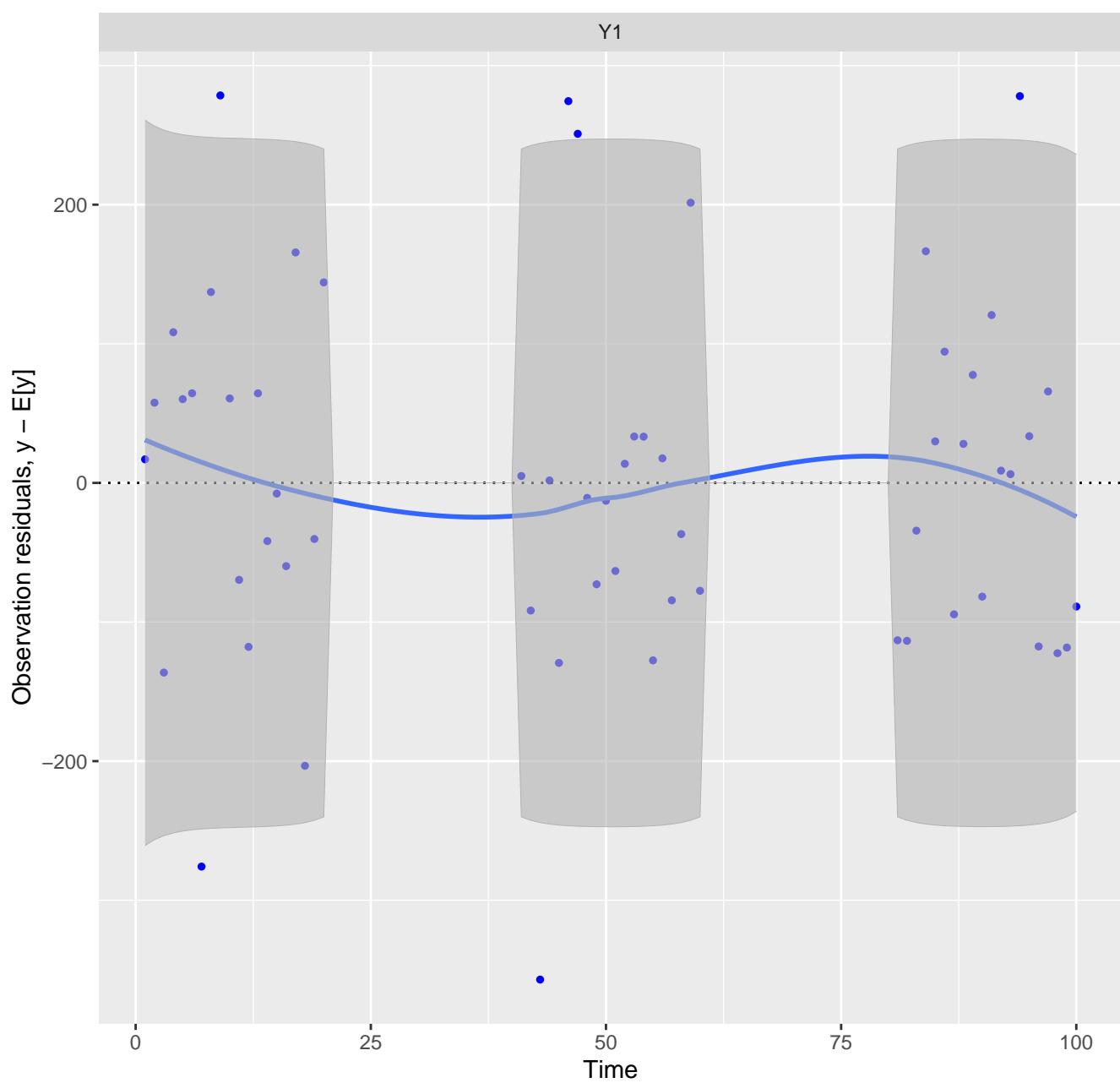
States

X.Y1

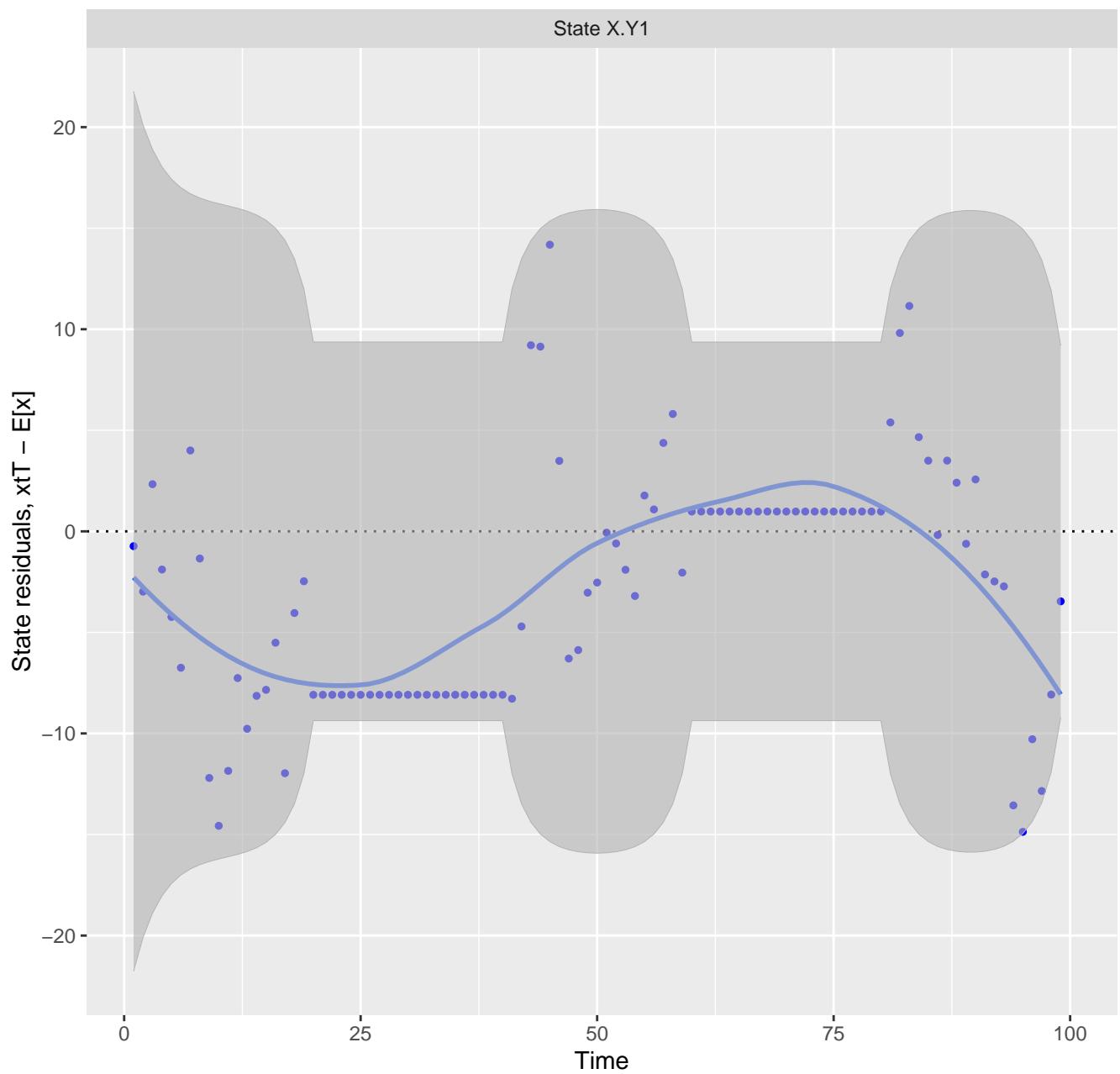
Estimate



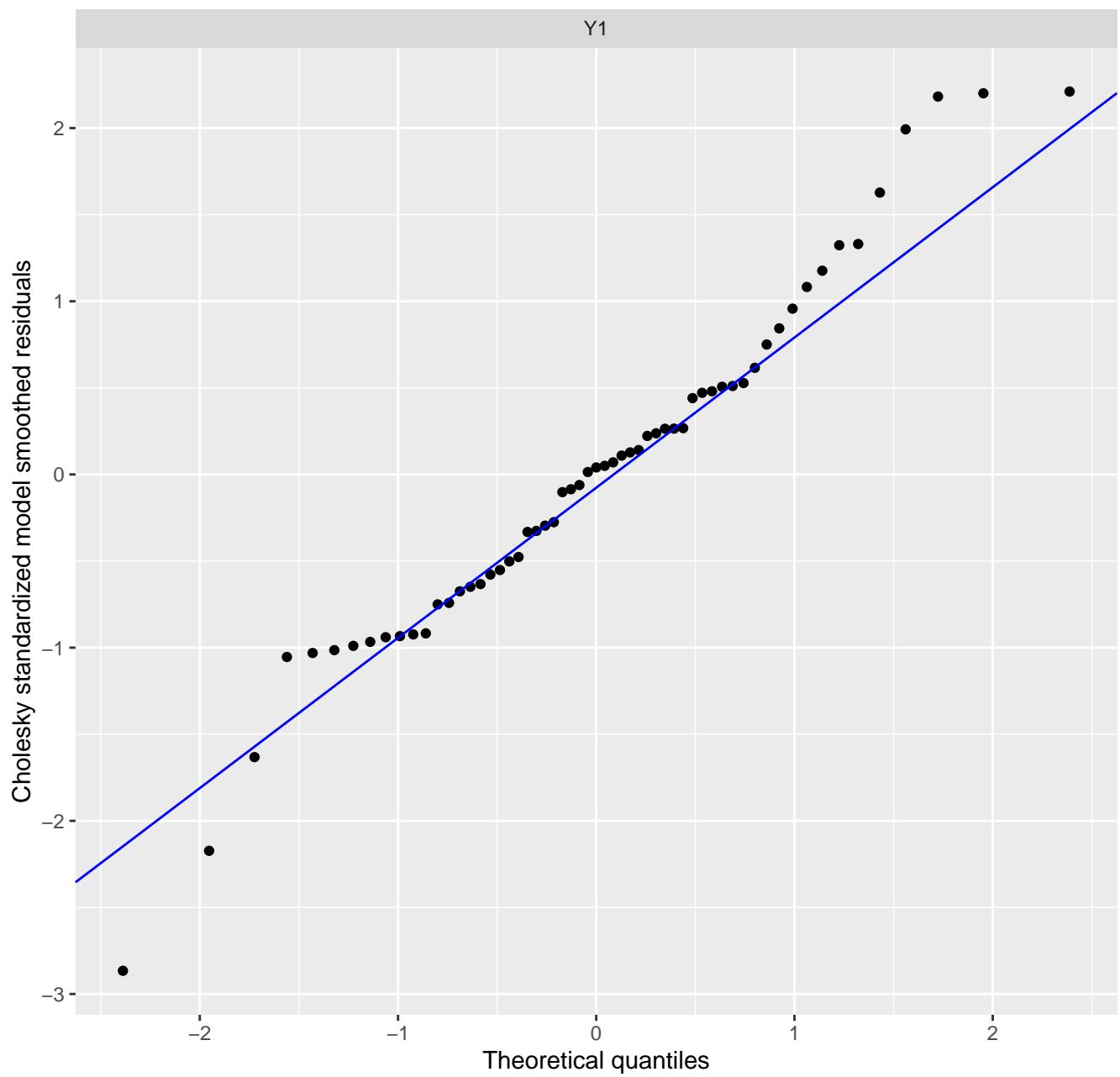
Model residuals



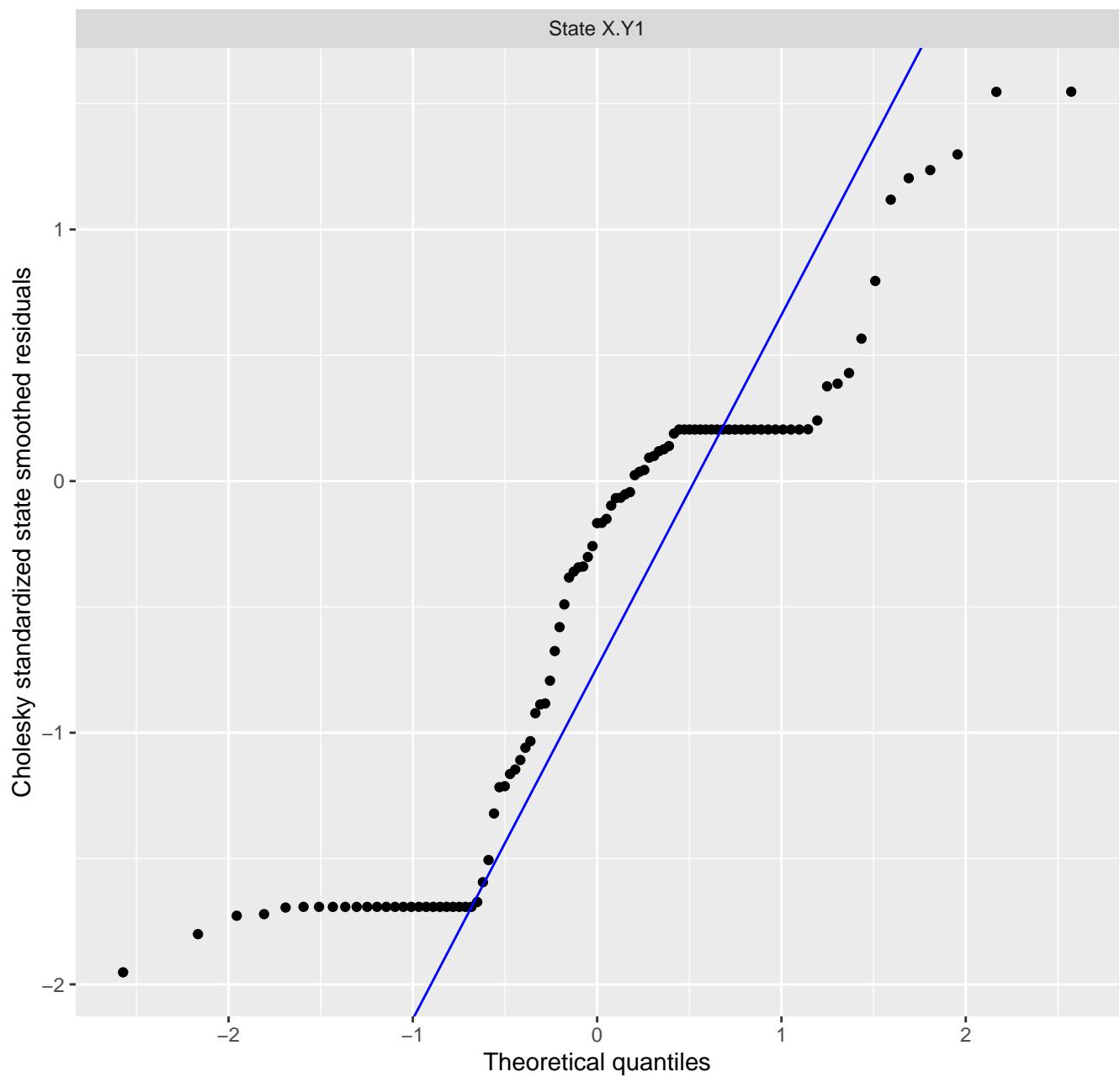
State residuals



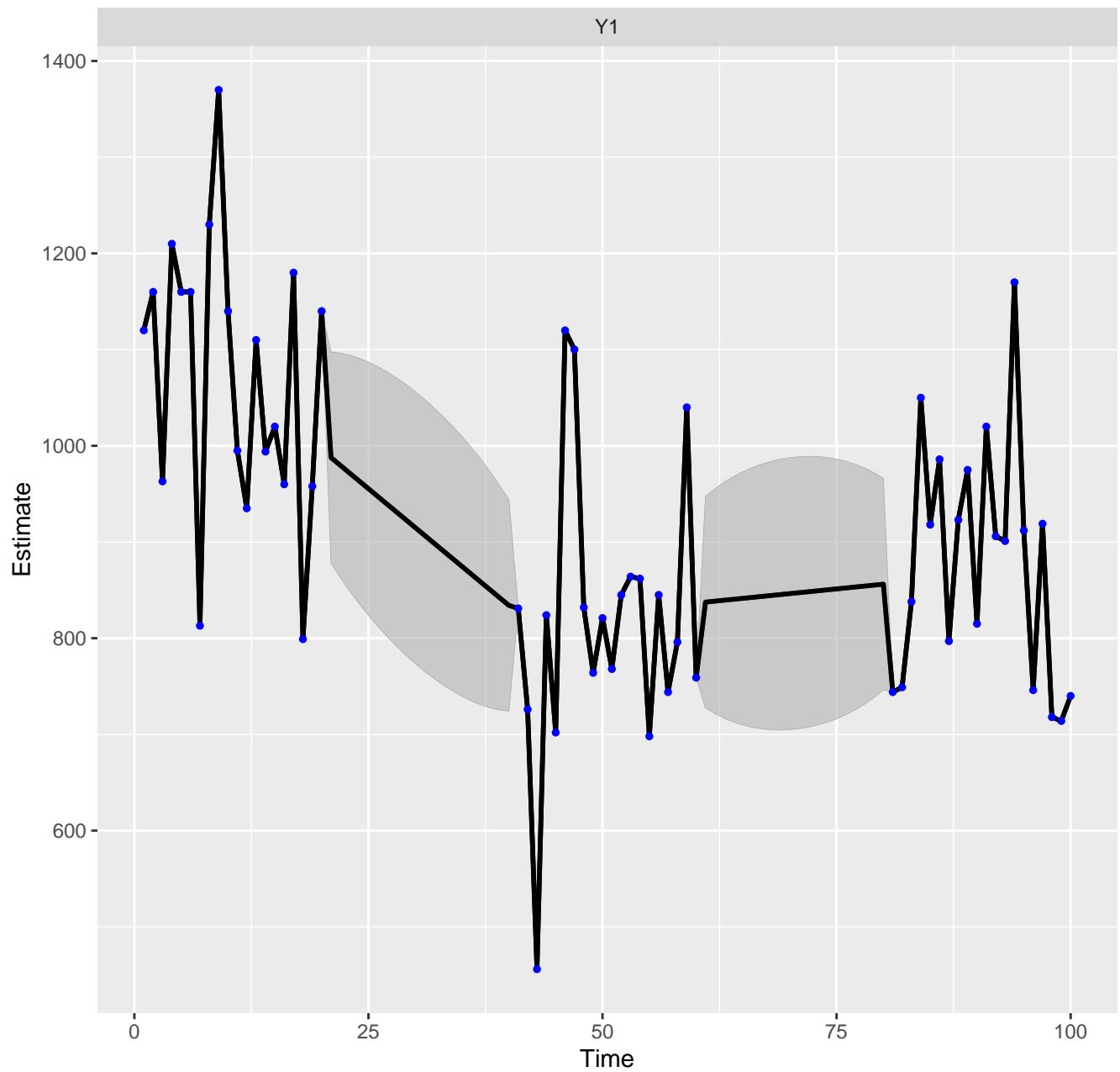
Model residuals normality test



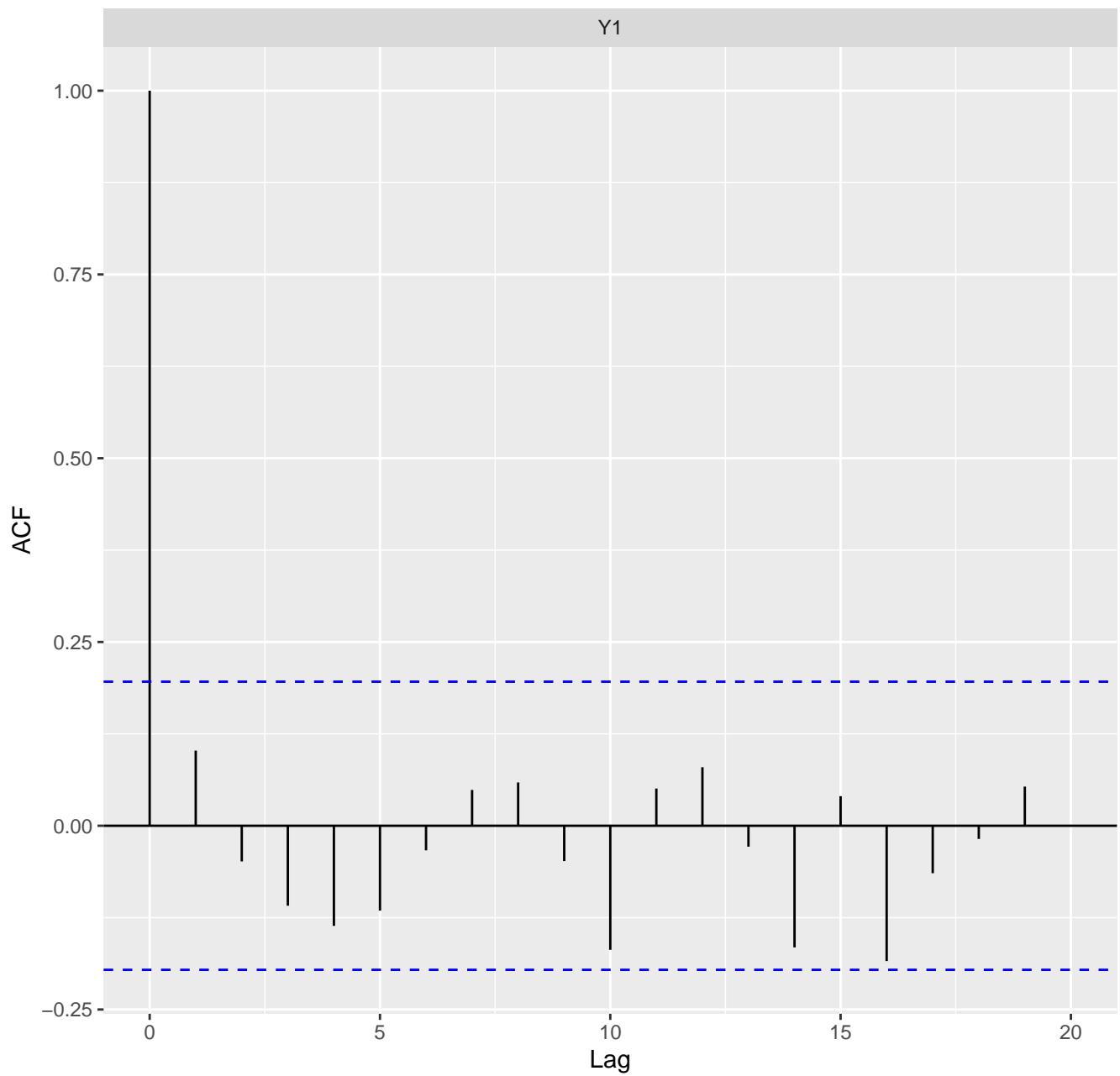
State residuals normality test



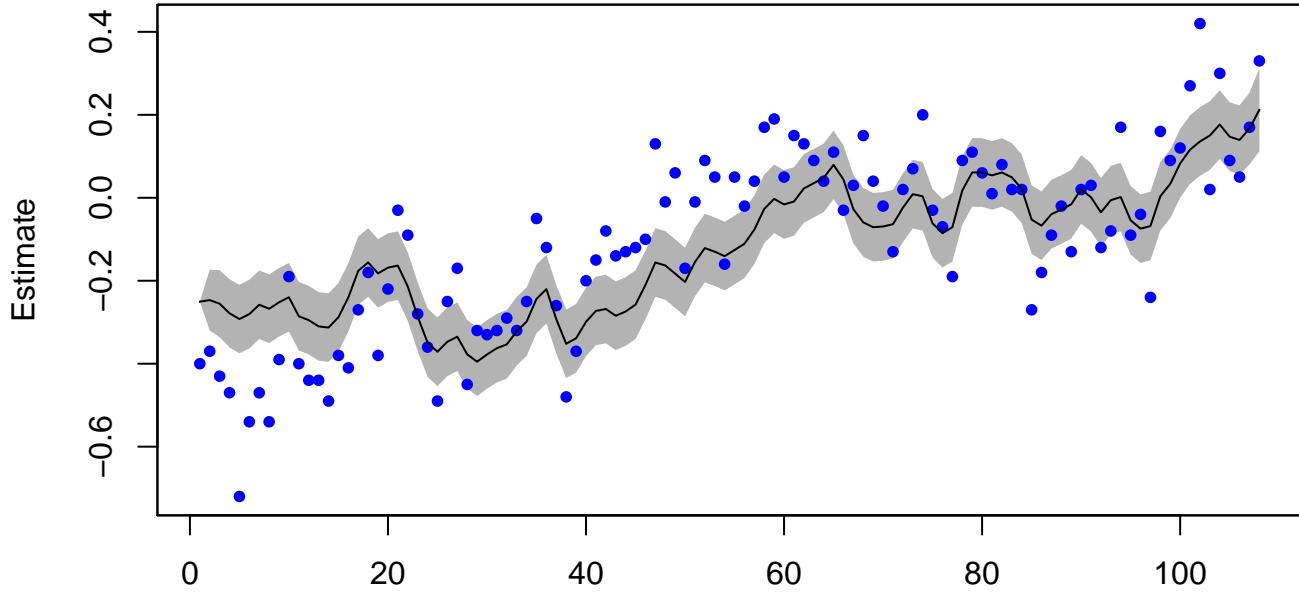
Expected value of Y conditioned on data



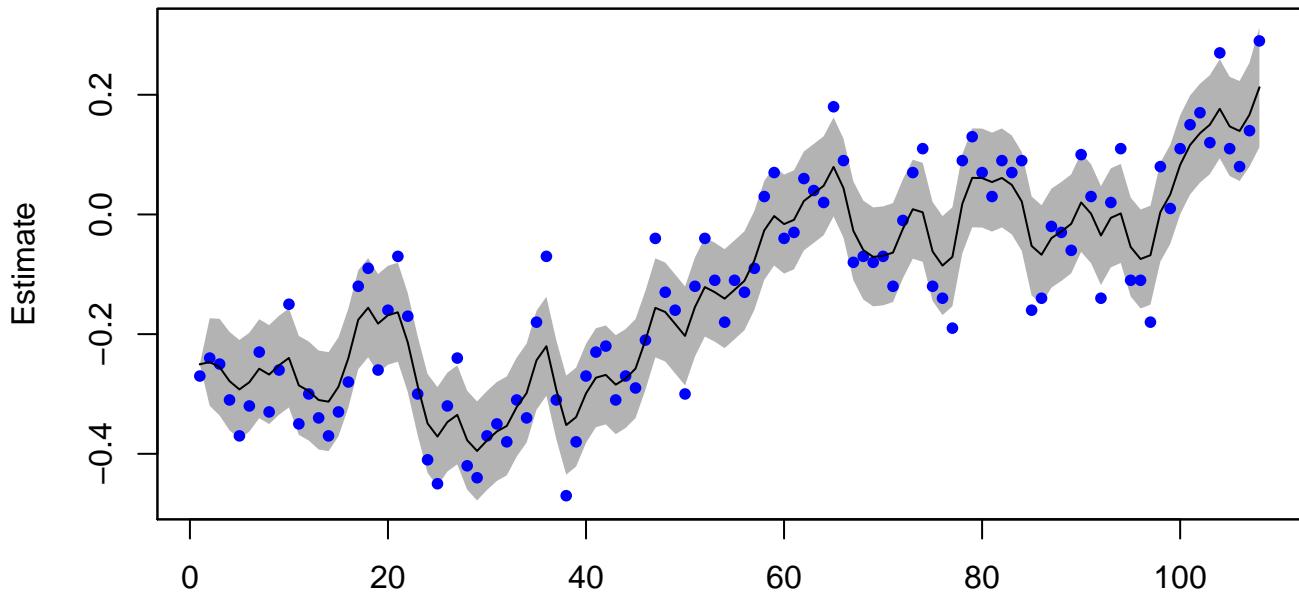
Model innovations residuals ACF



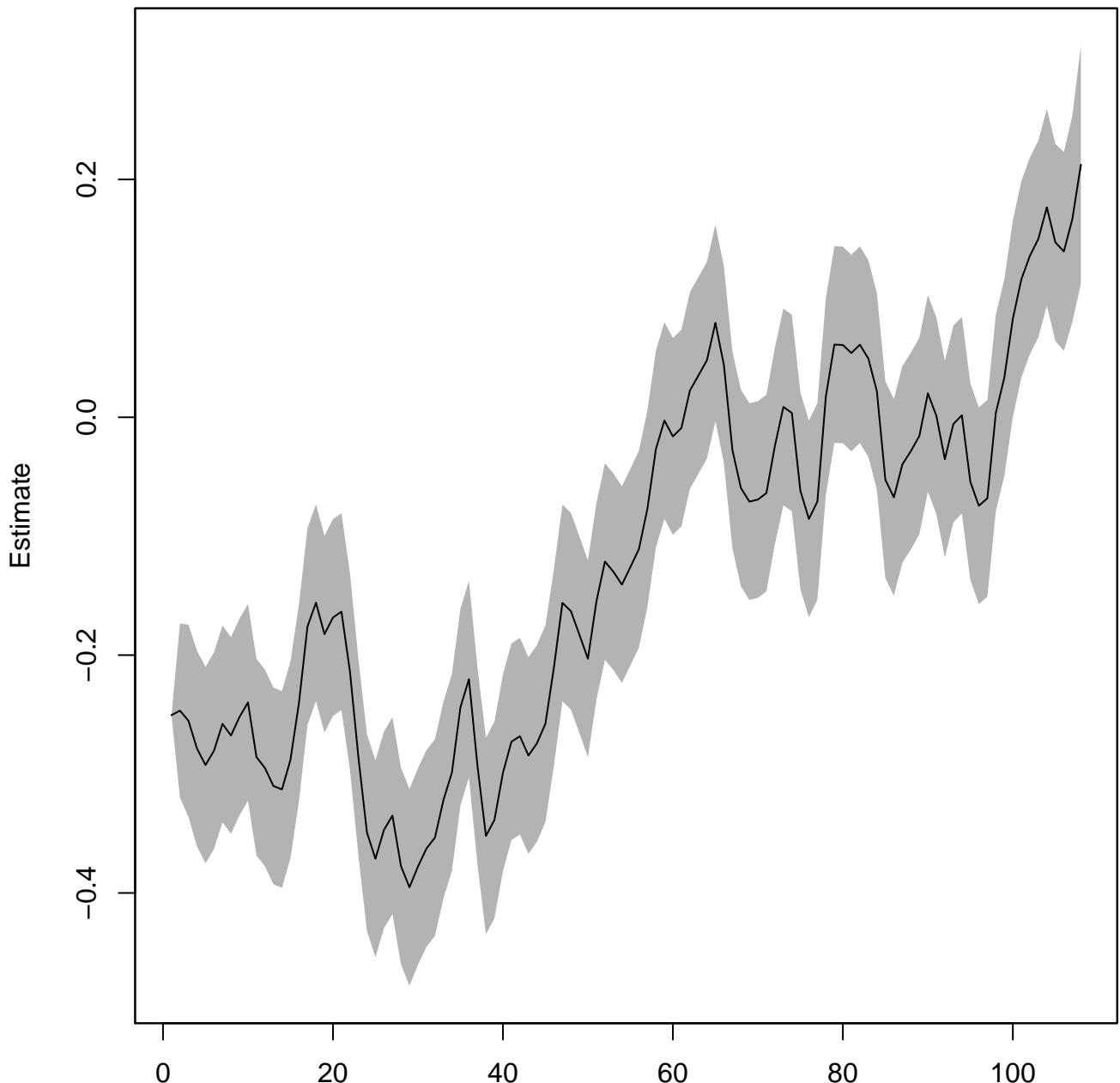
HL + CI



Folland + CI

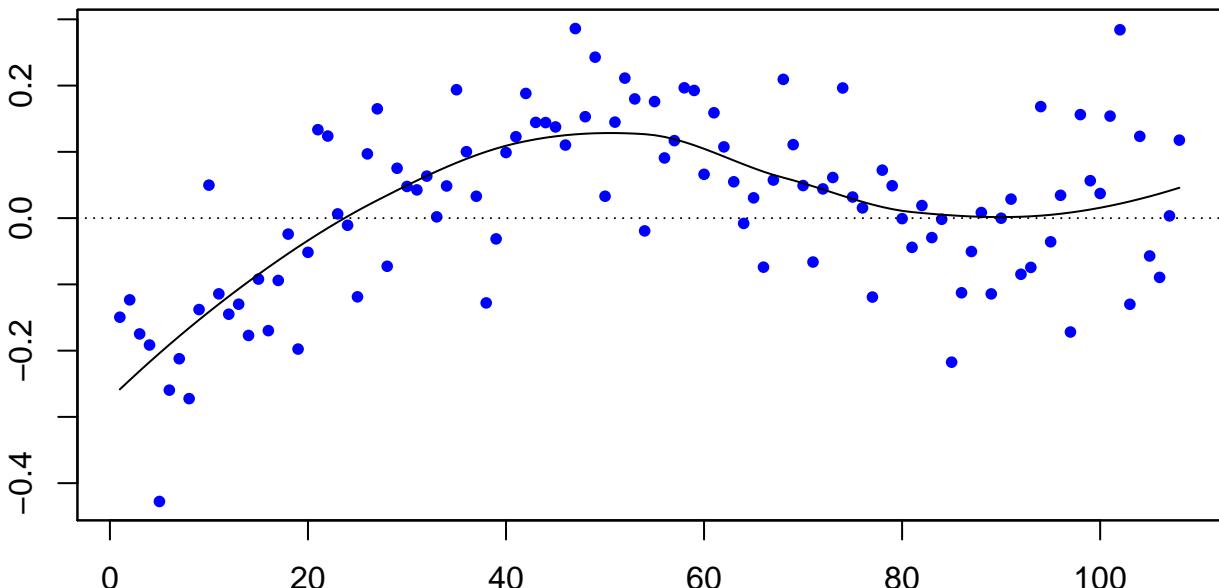


State X1

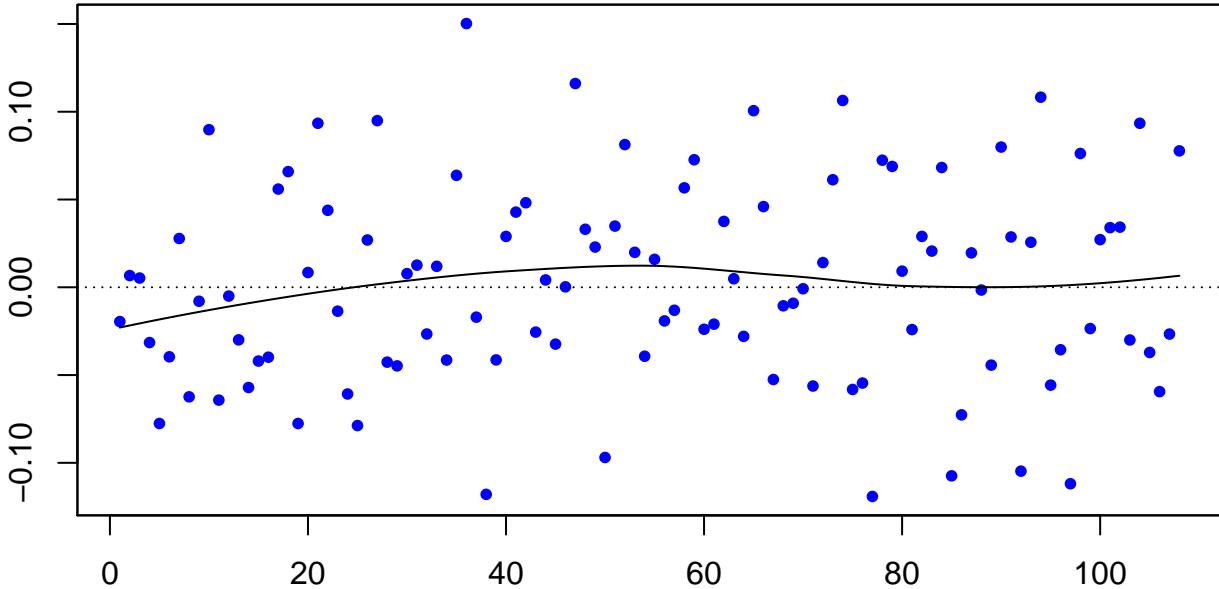


HL

Observation residuals, $y - E[y]$

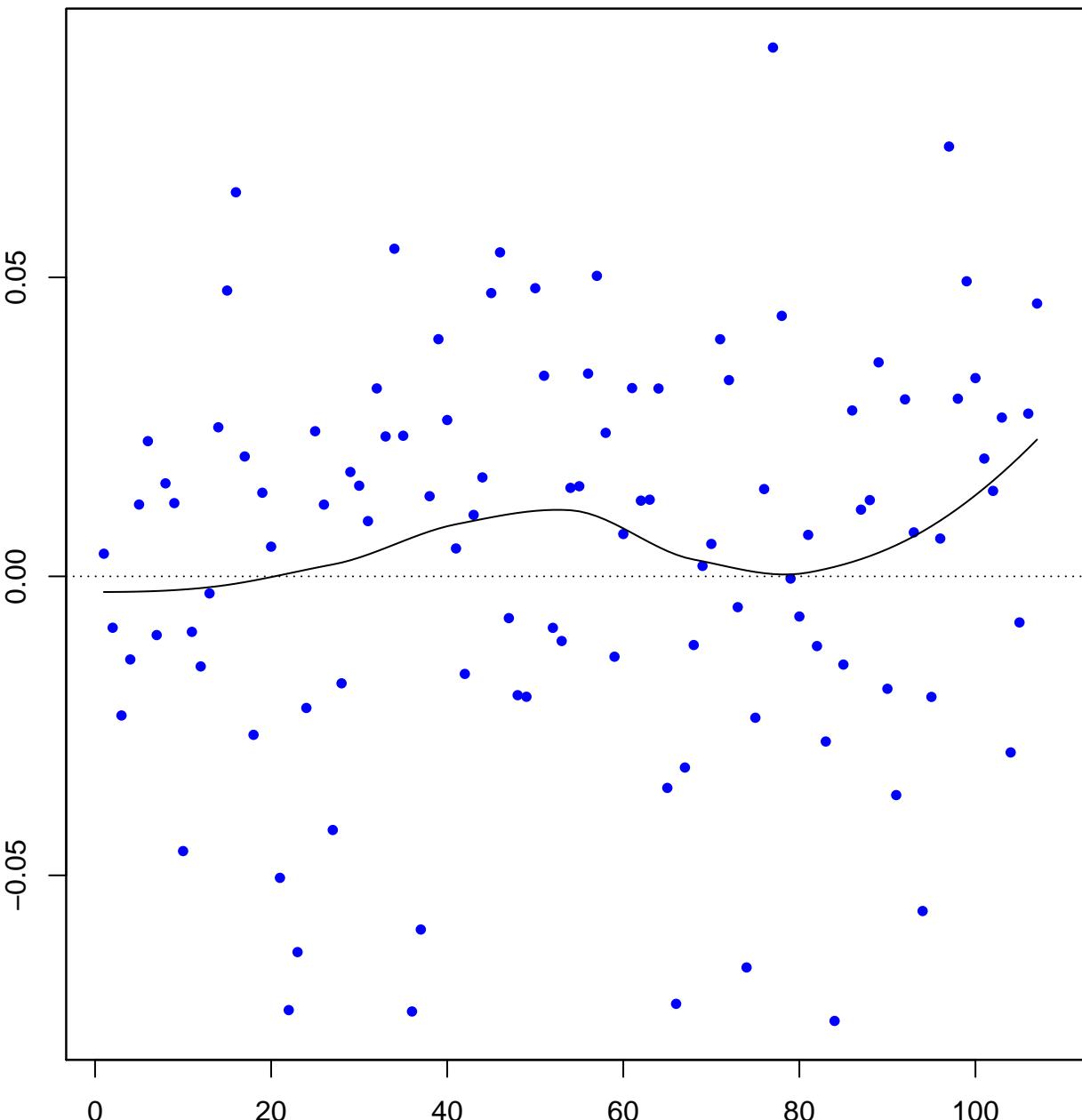


Folland



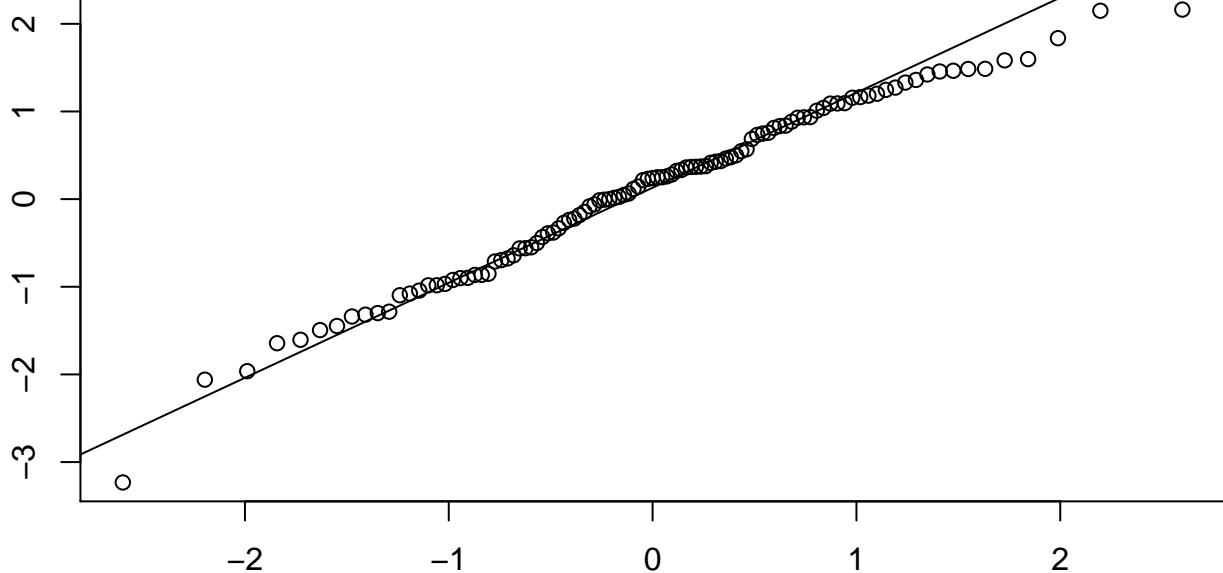
State X1

State residuals, $x_{tT} - E[X]$



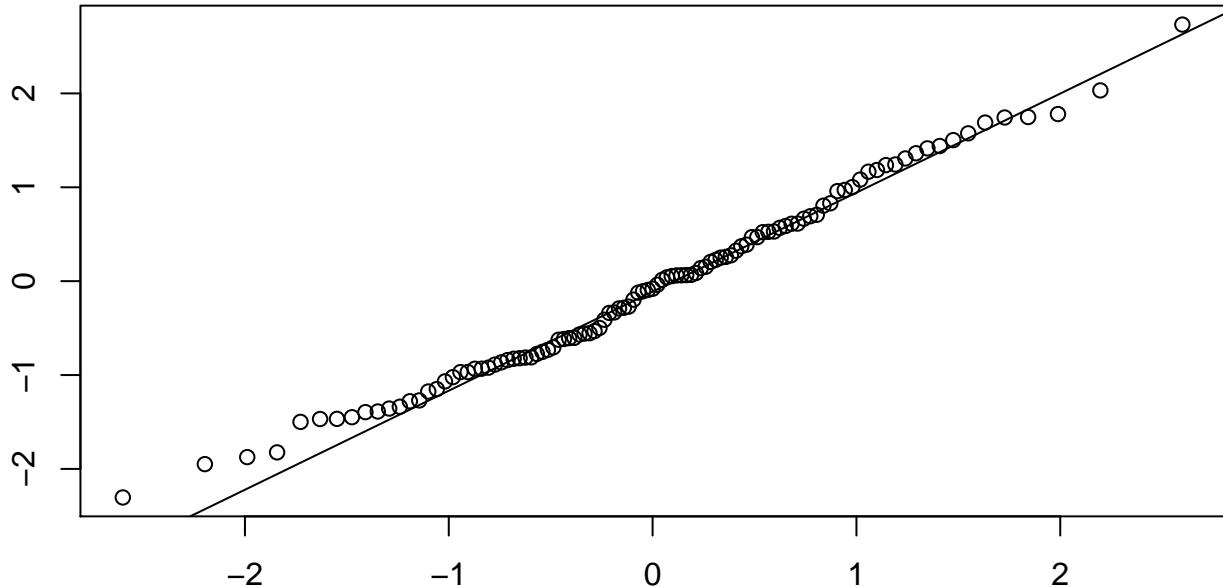
HL

Sample Quantiles

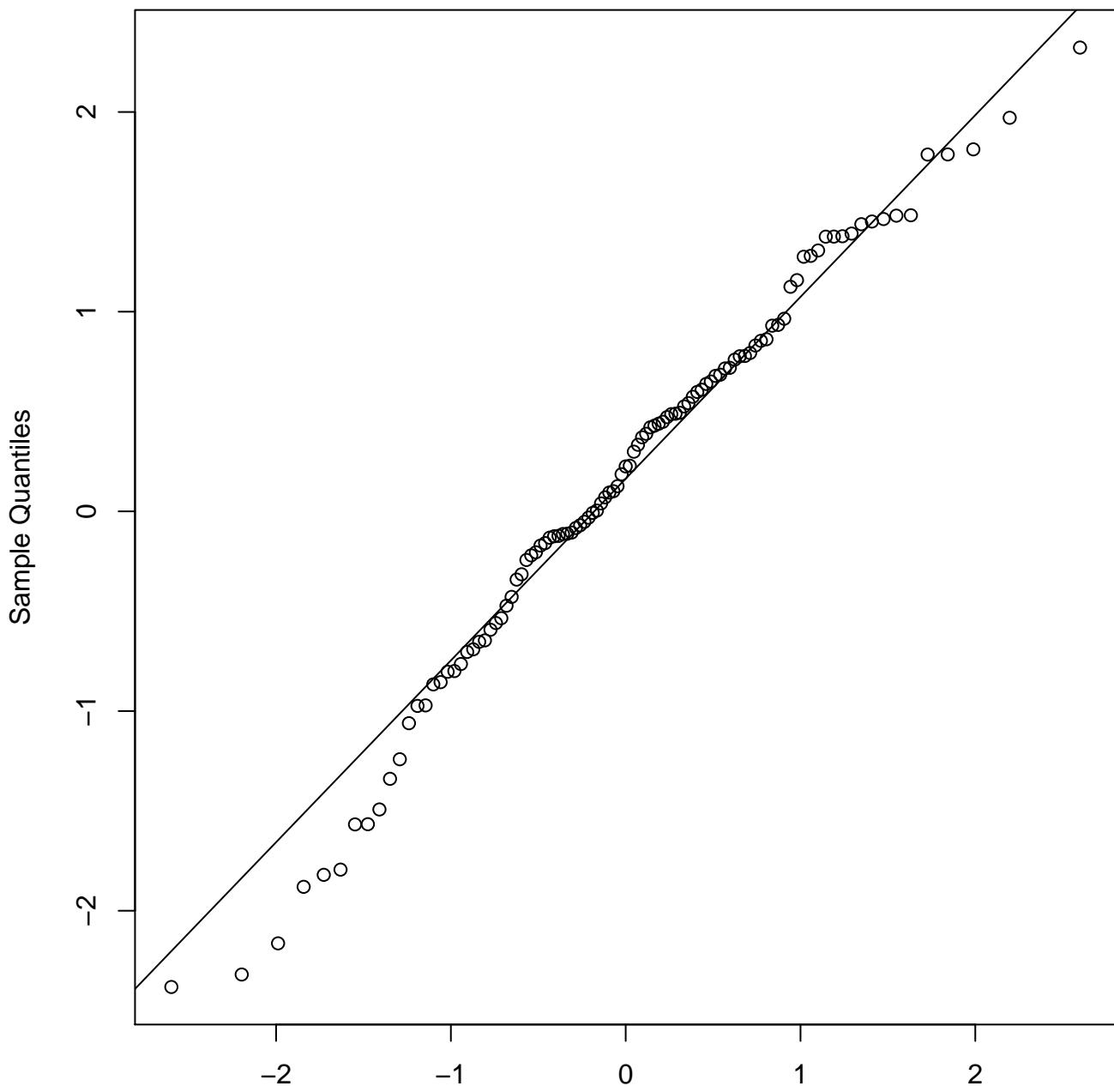


Folland

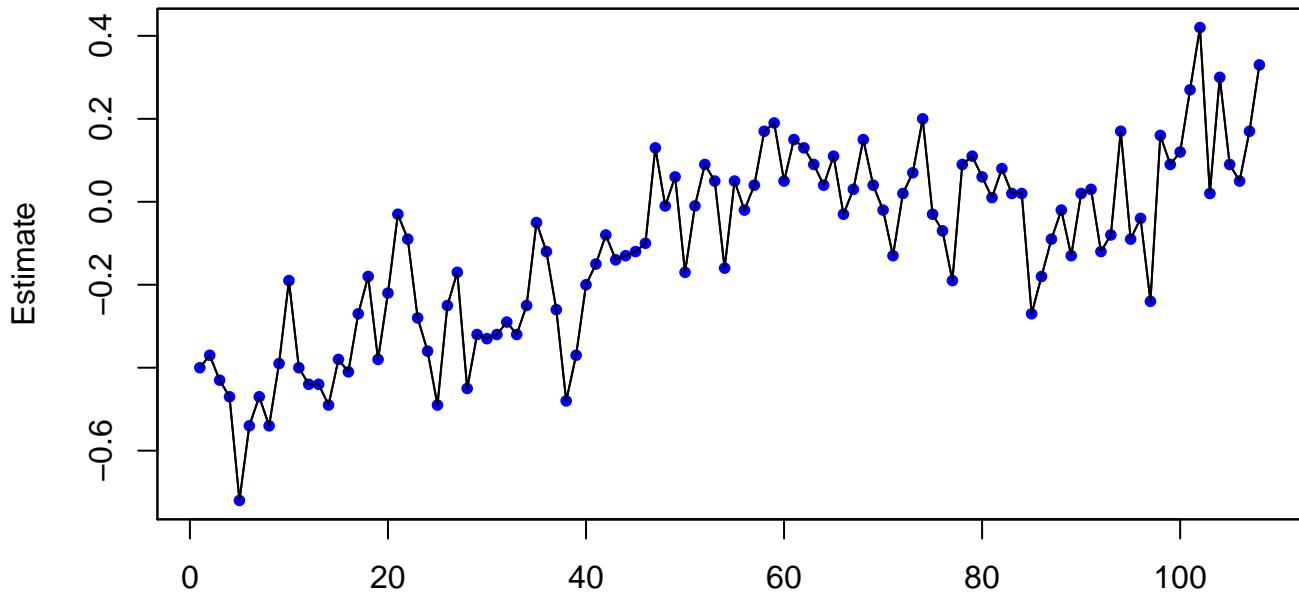
Sample Quantiles



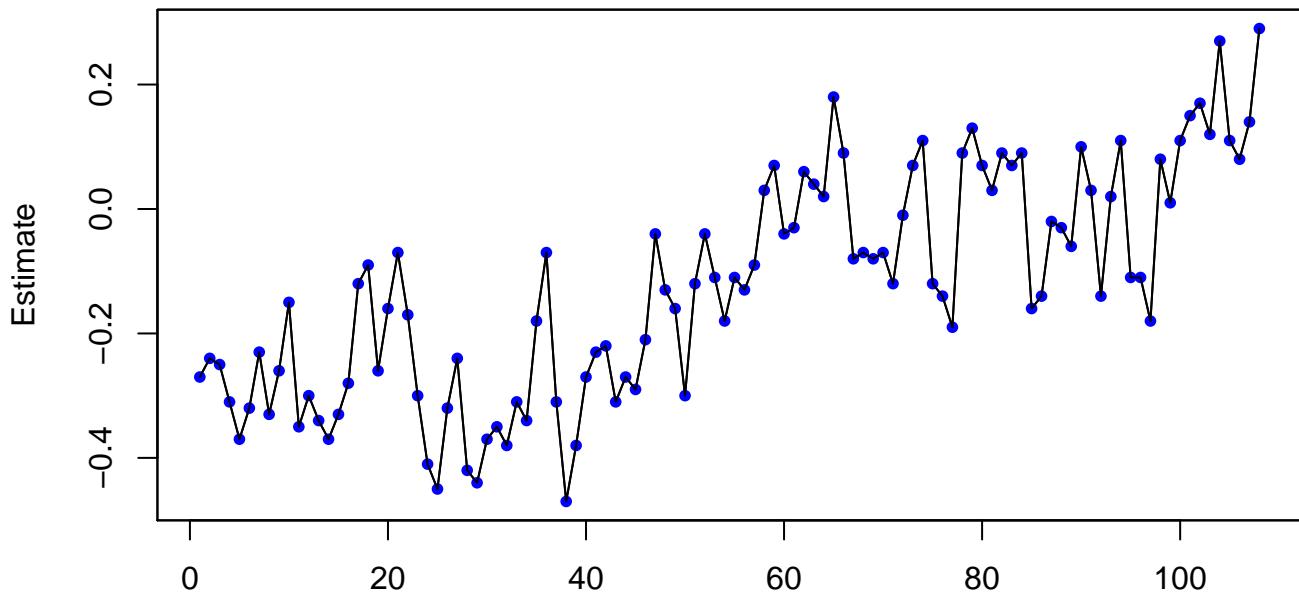
State X1



HL + CI

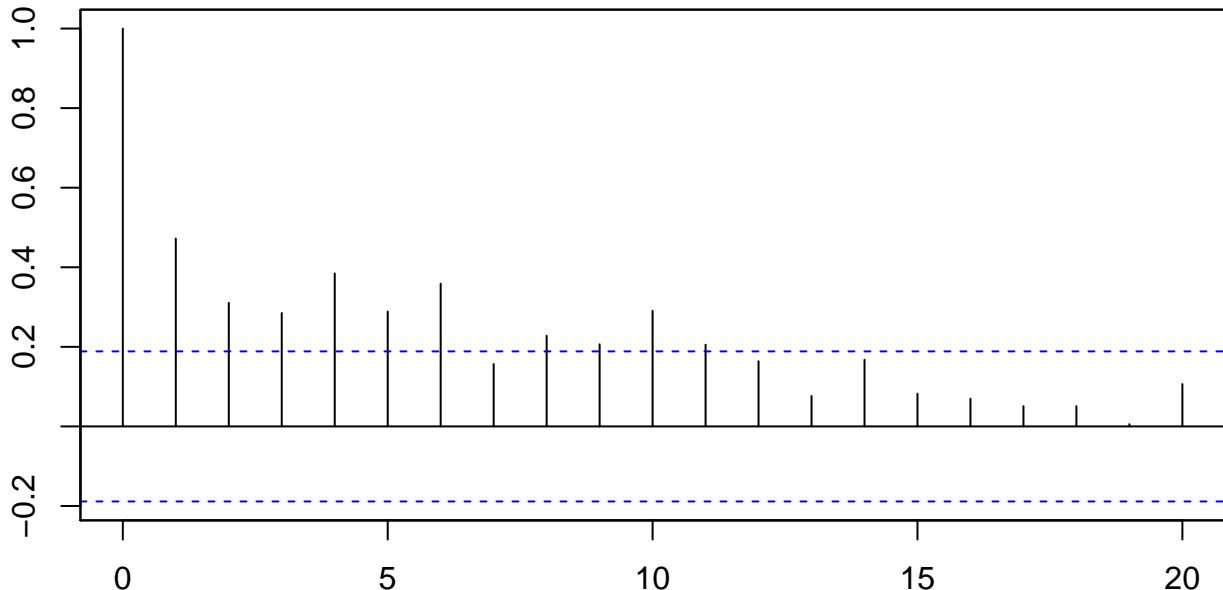


Folland + CI



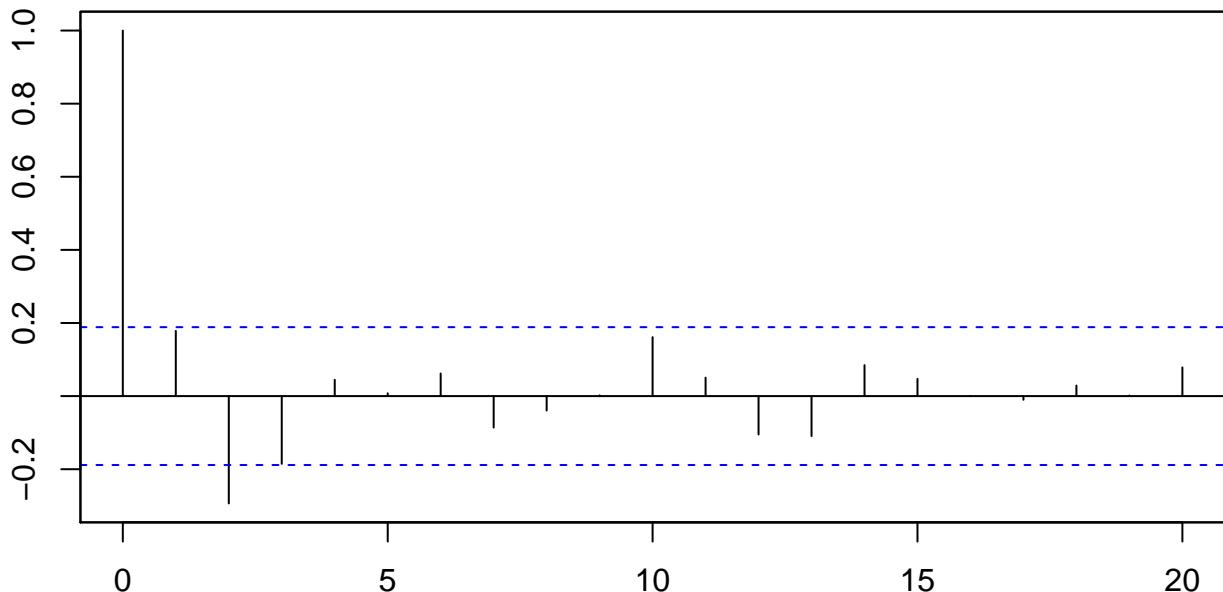
HL

ACF

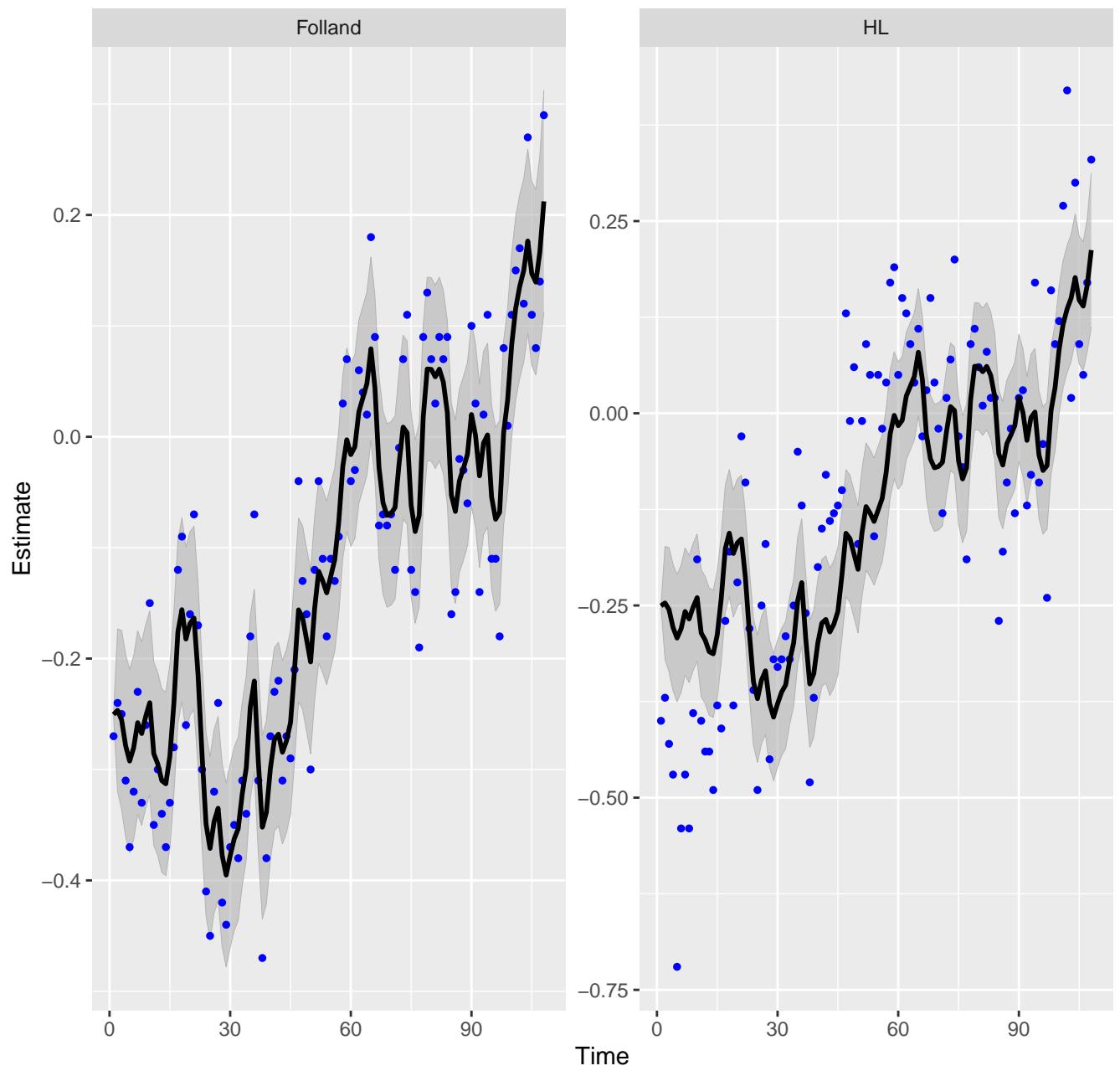


Folland

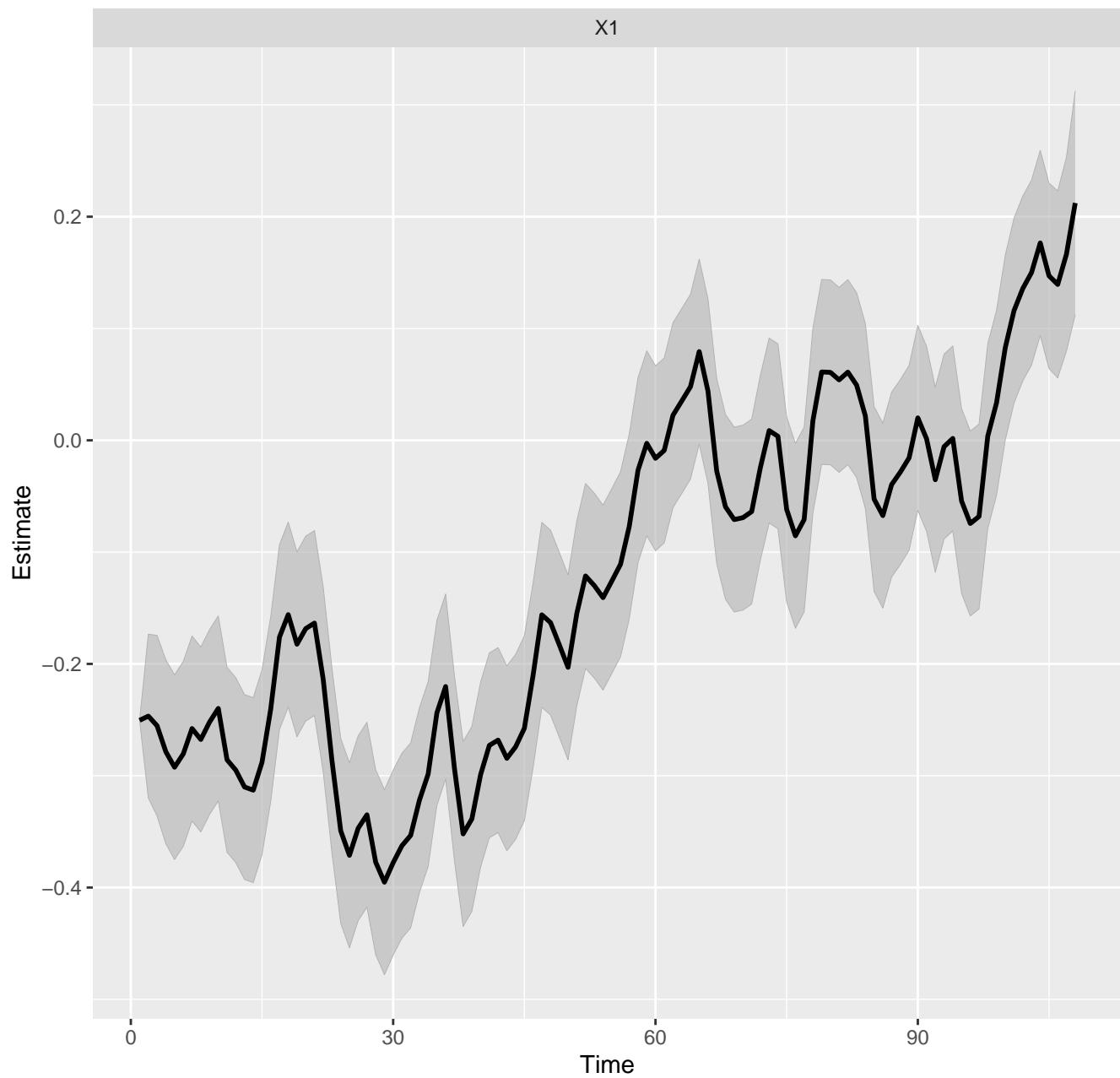
ACF



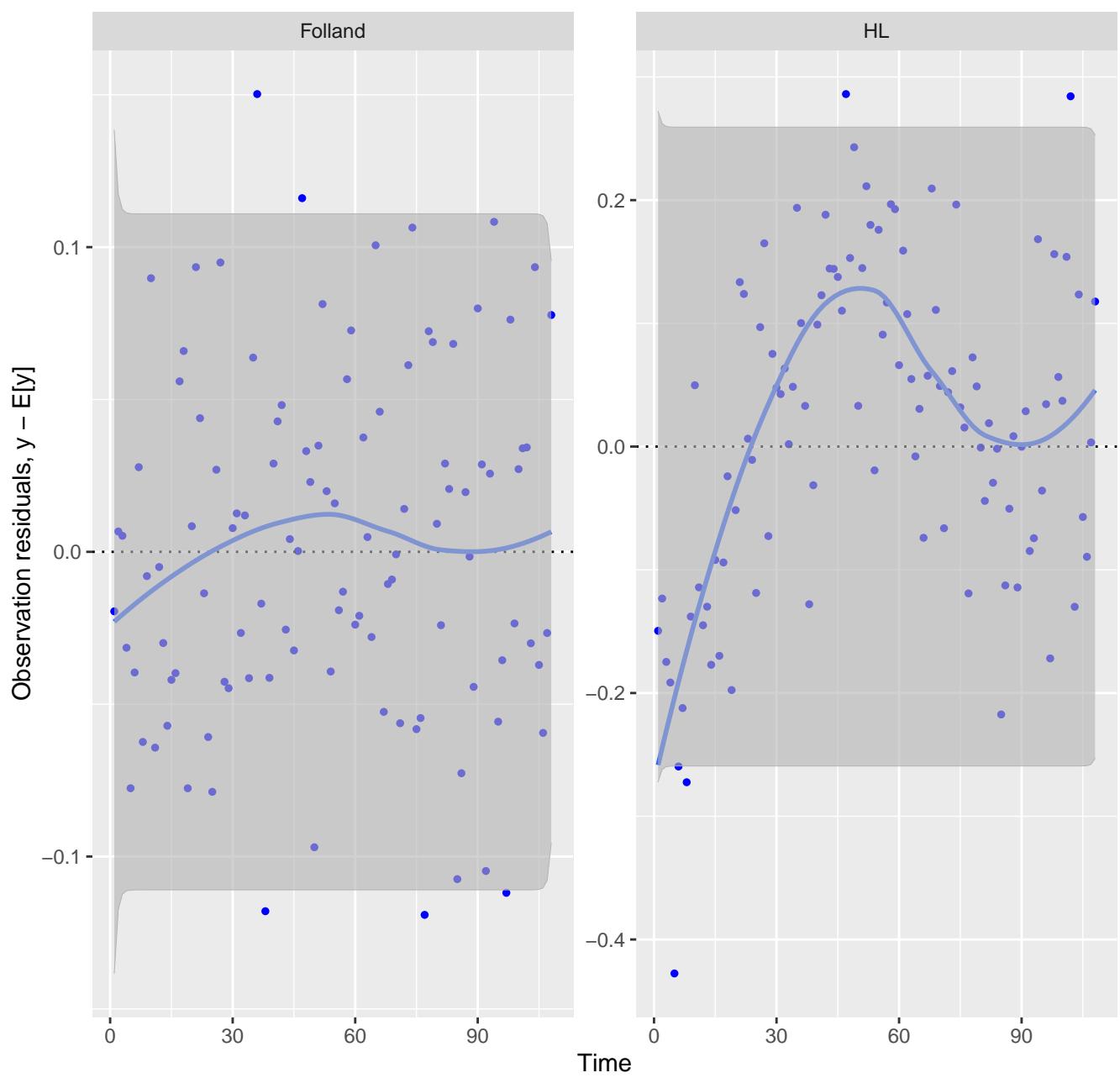
Model fitted Y + CI



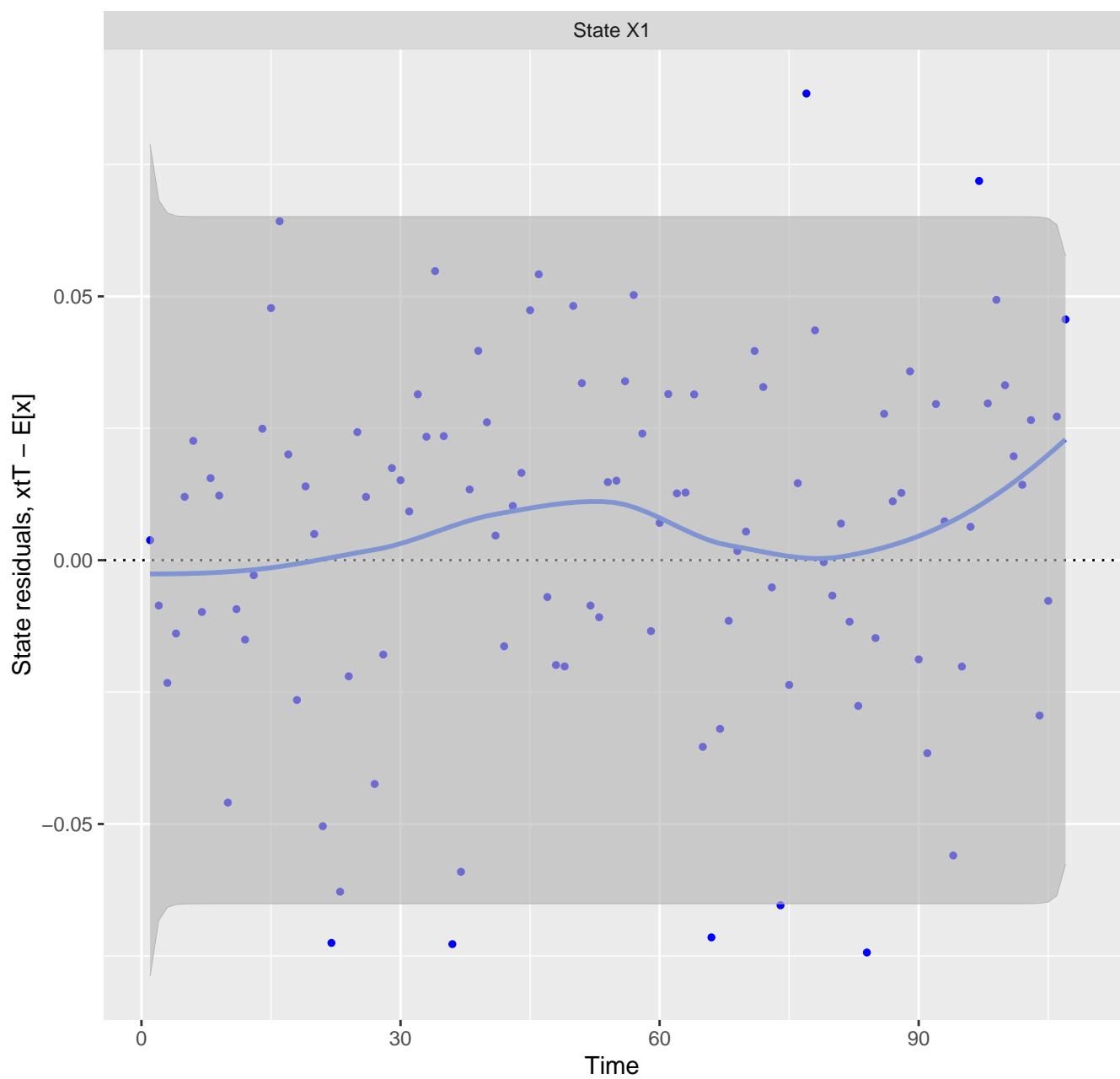
States



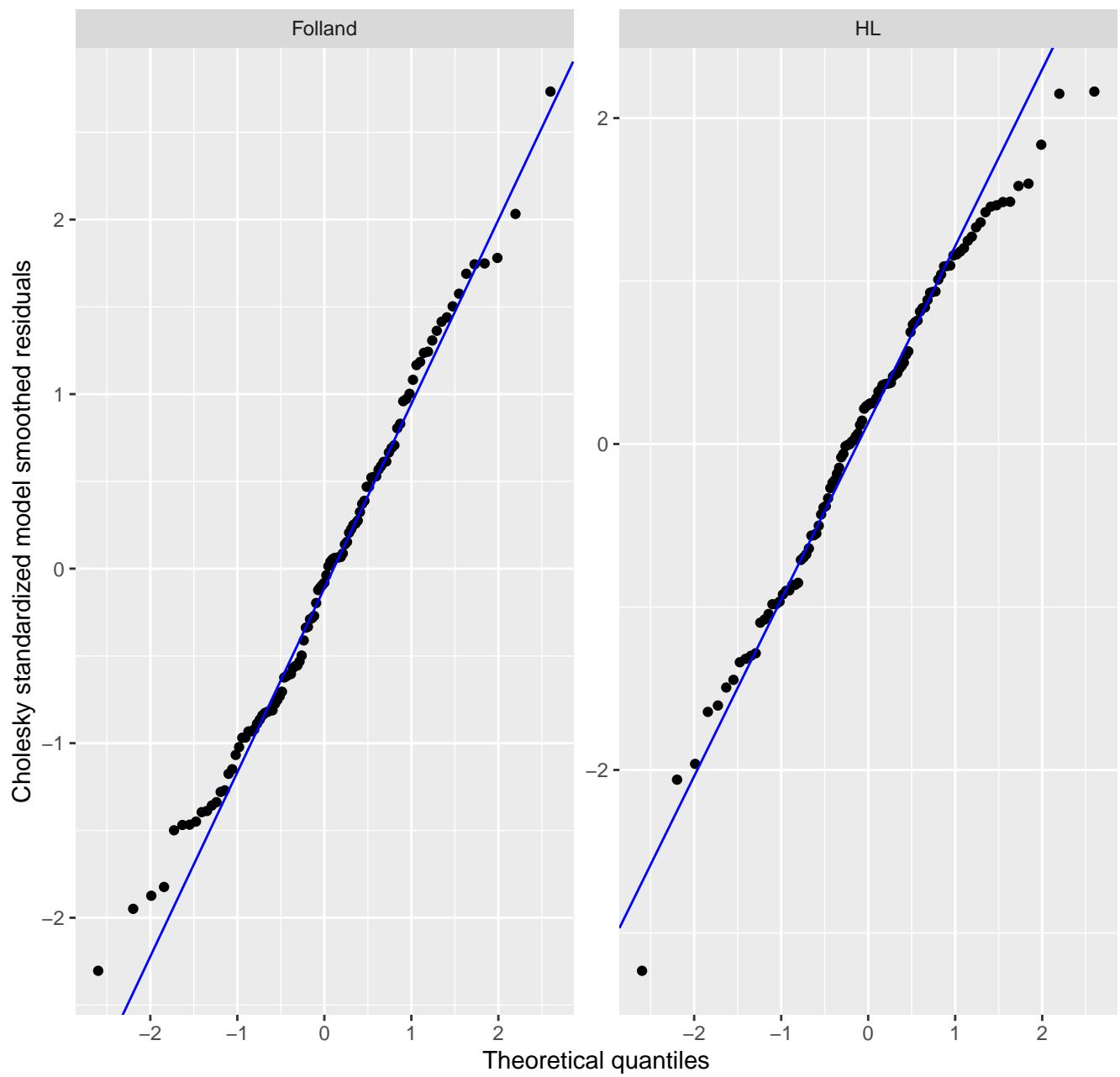
Model residuals



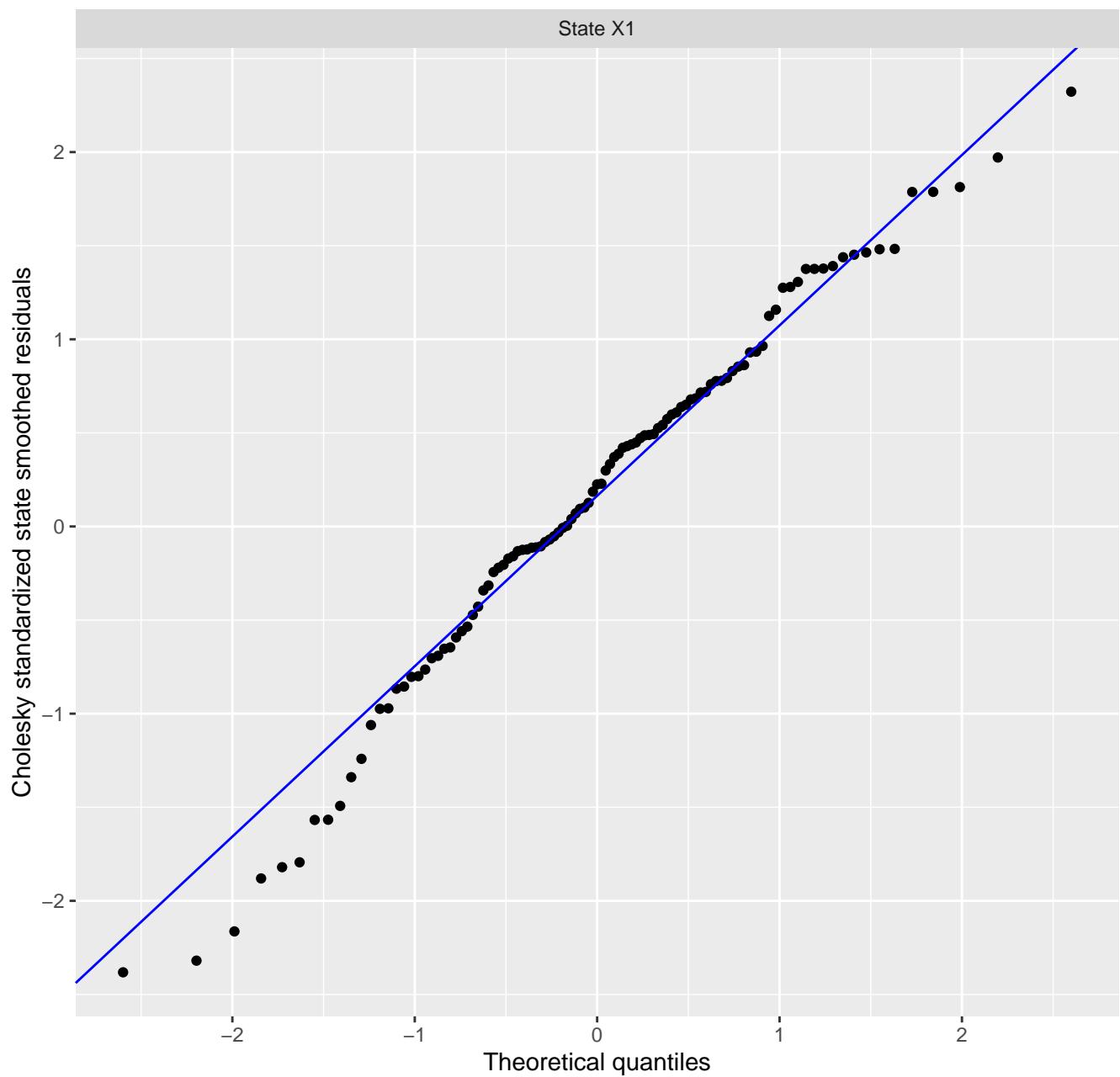
State residuals



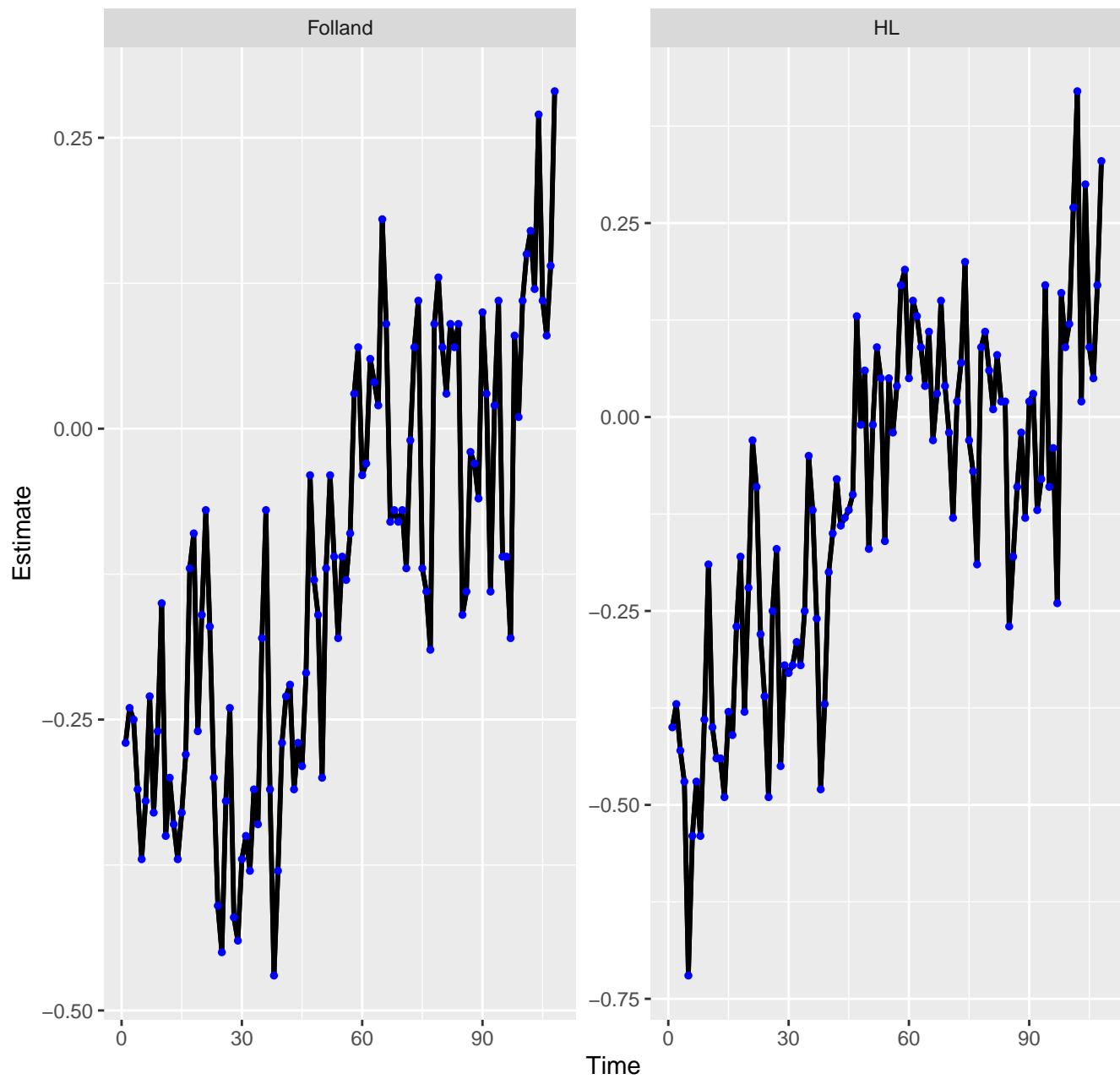
Model residuals normality test



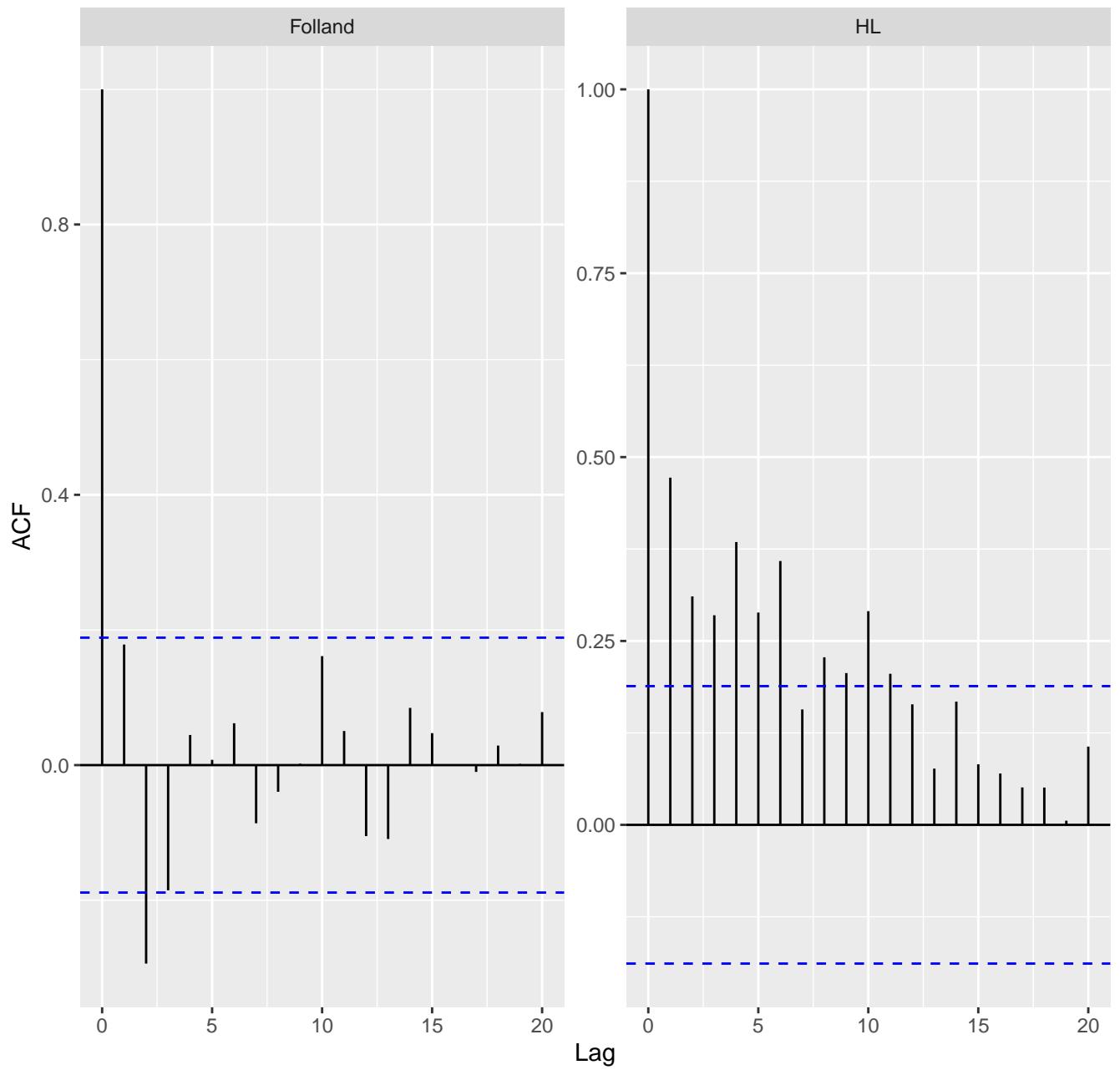
State residuals normality test



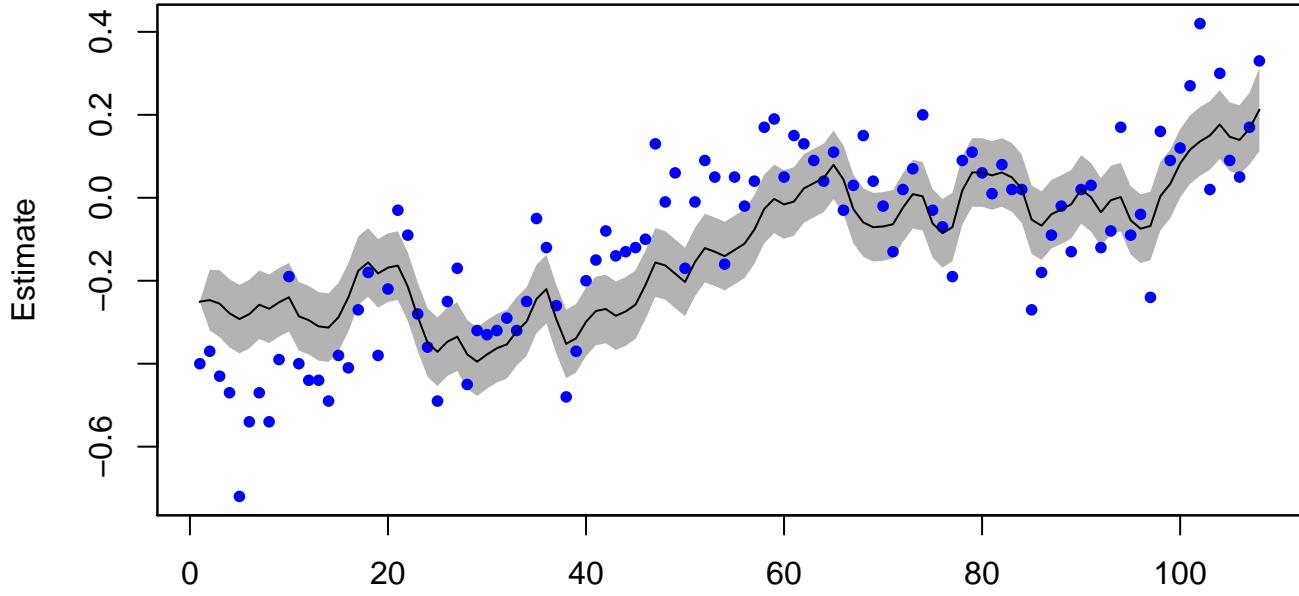
Expected value of Y conditioned on data



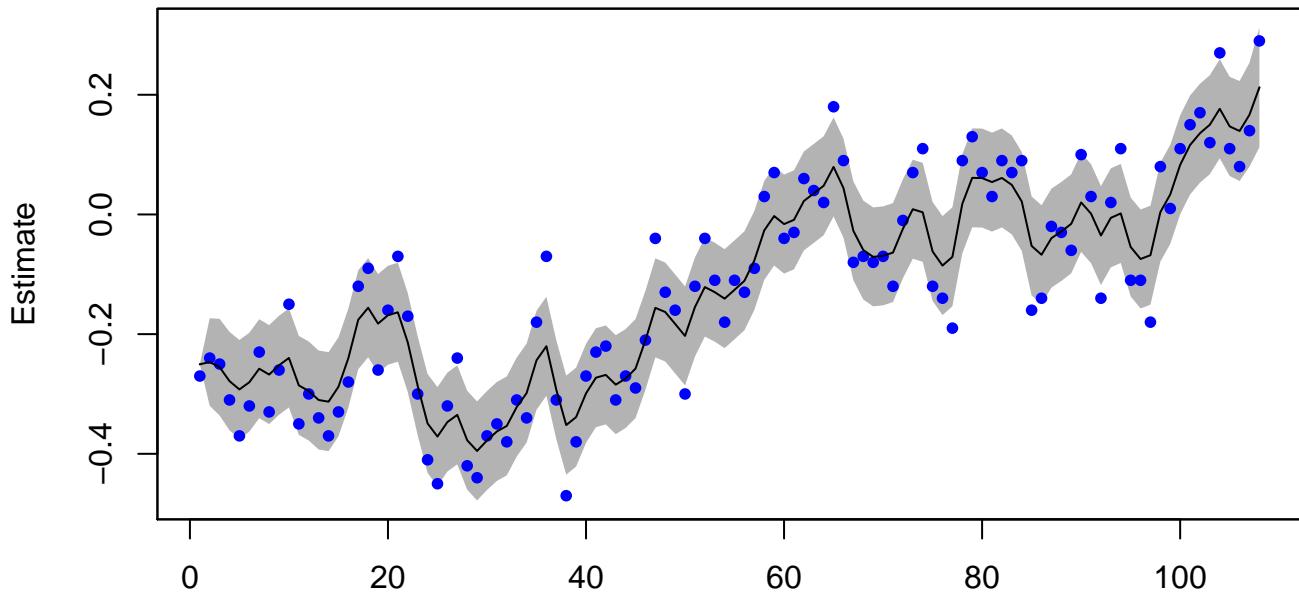
Model innovations residuals ACF



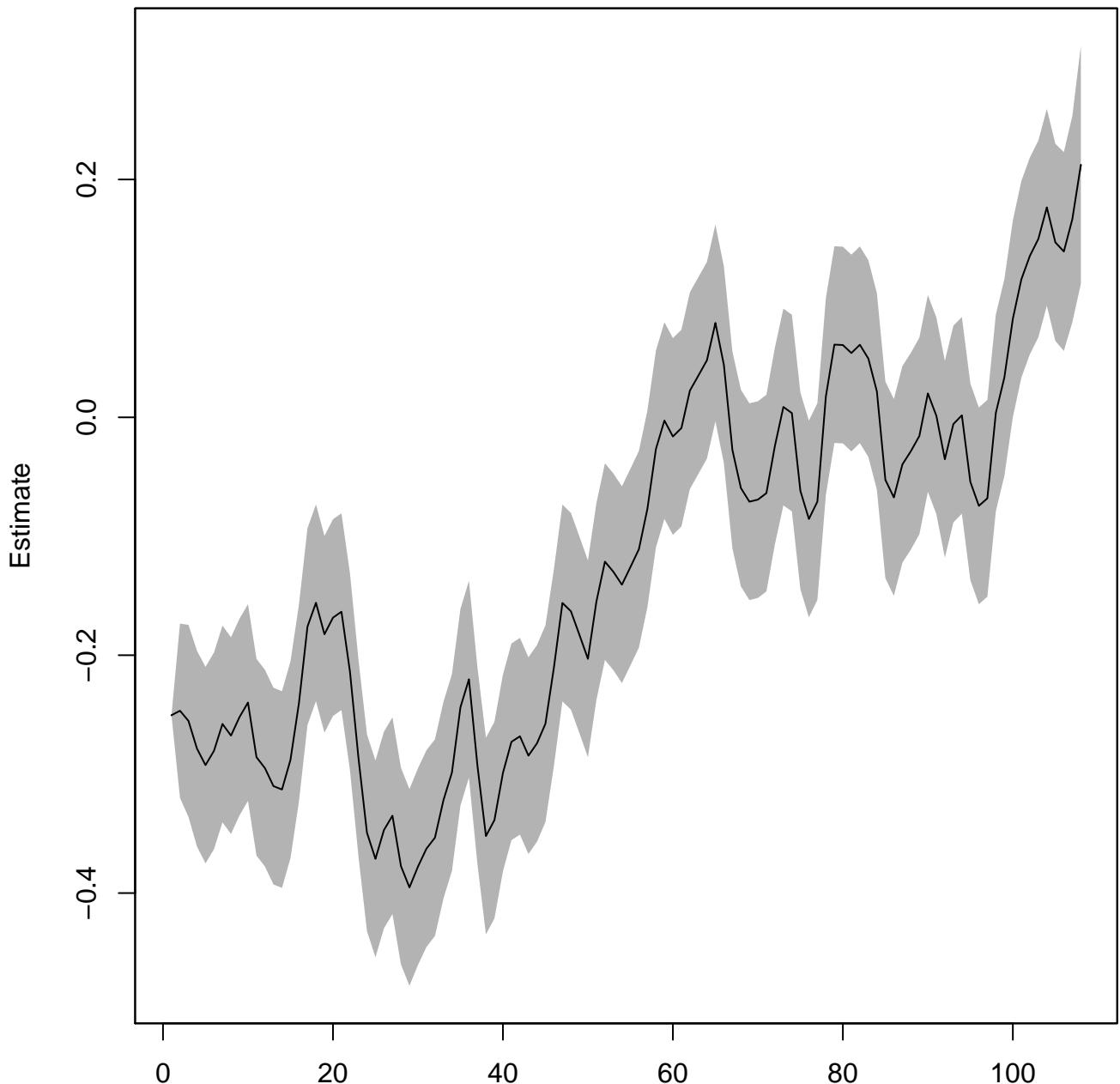
HL + CI



Folland + CI

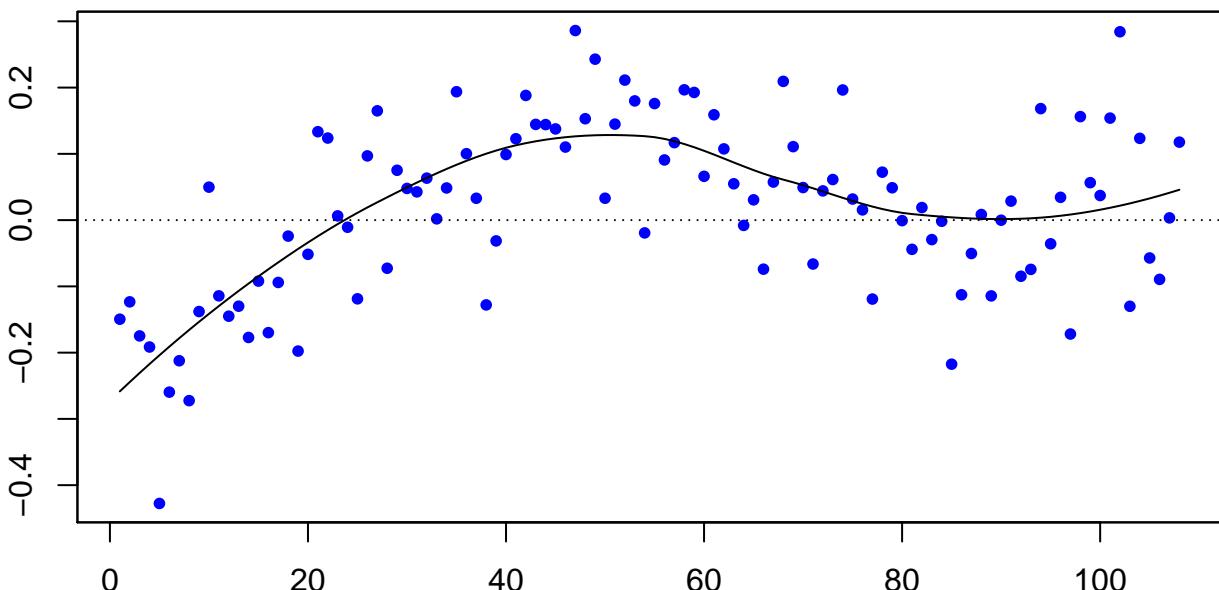


State X1

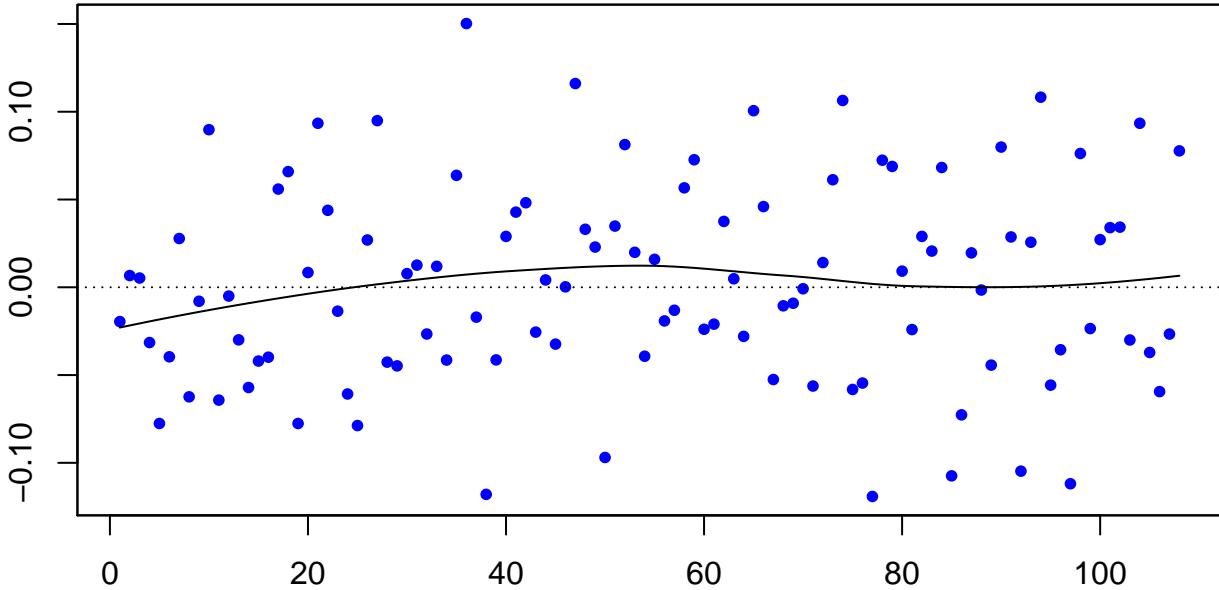


HL

Observation residuals, $y - E[y]$

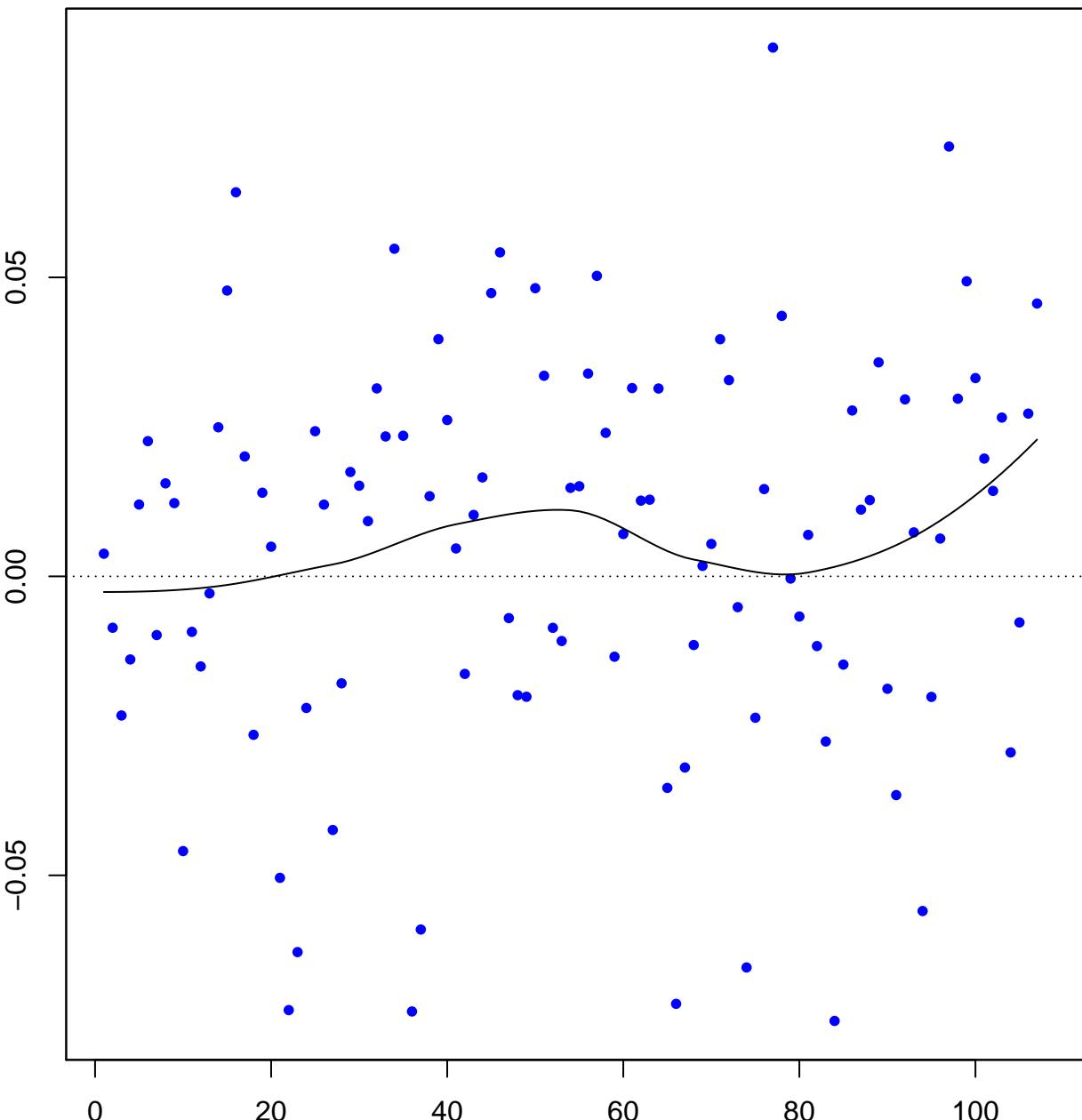


Folland



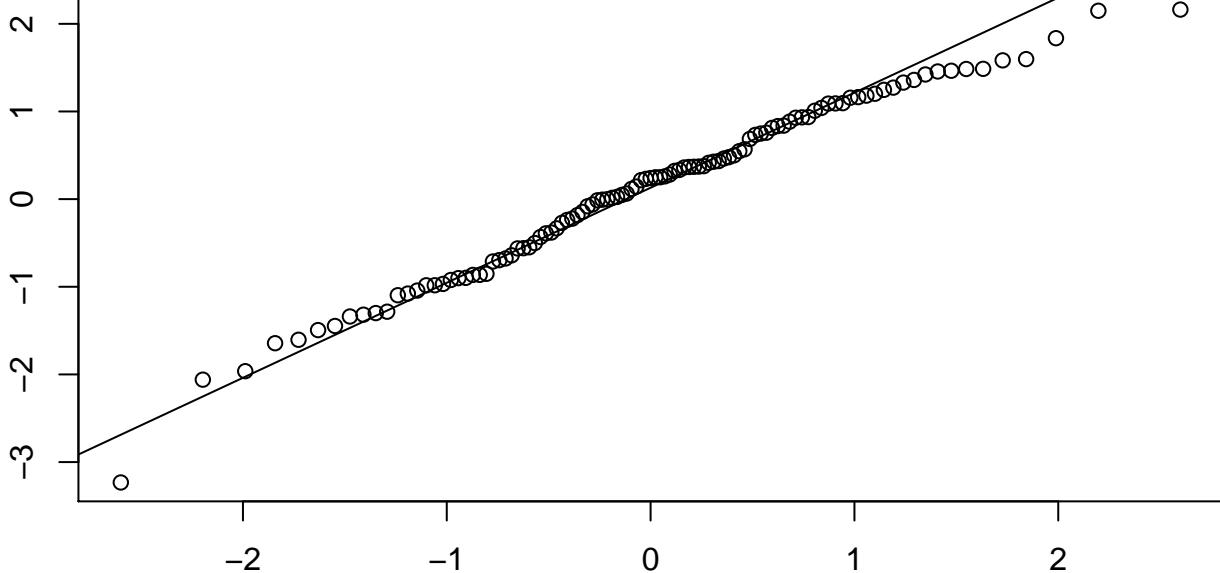
State X1

State residuals, $x_{tT} - E[X]$



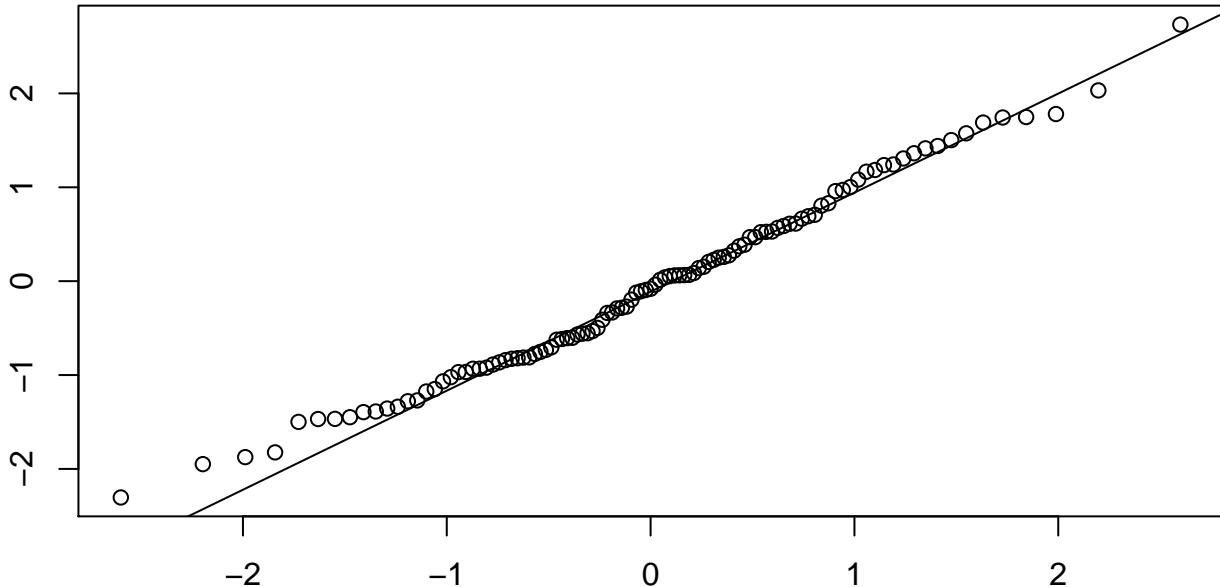
HL

Sample Quantiles



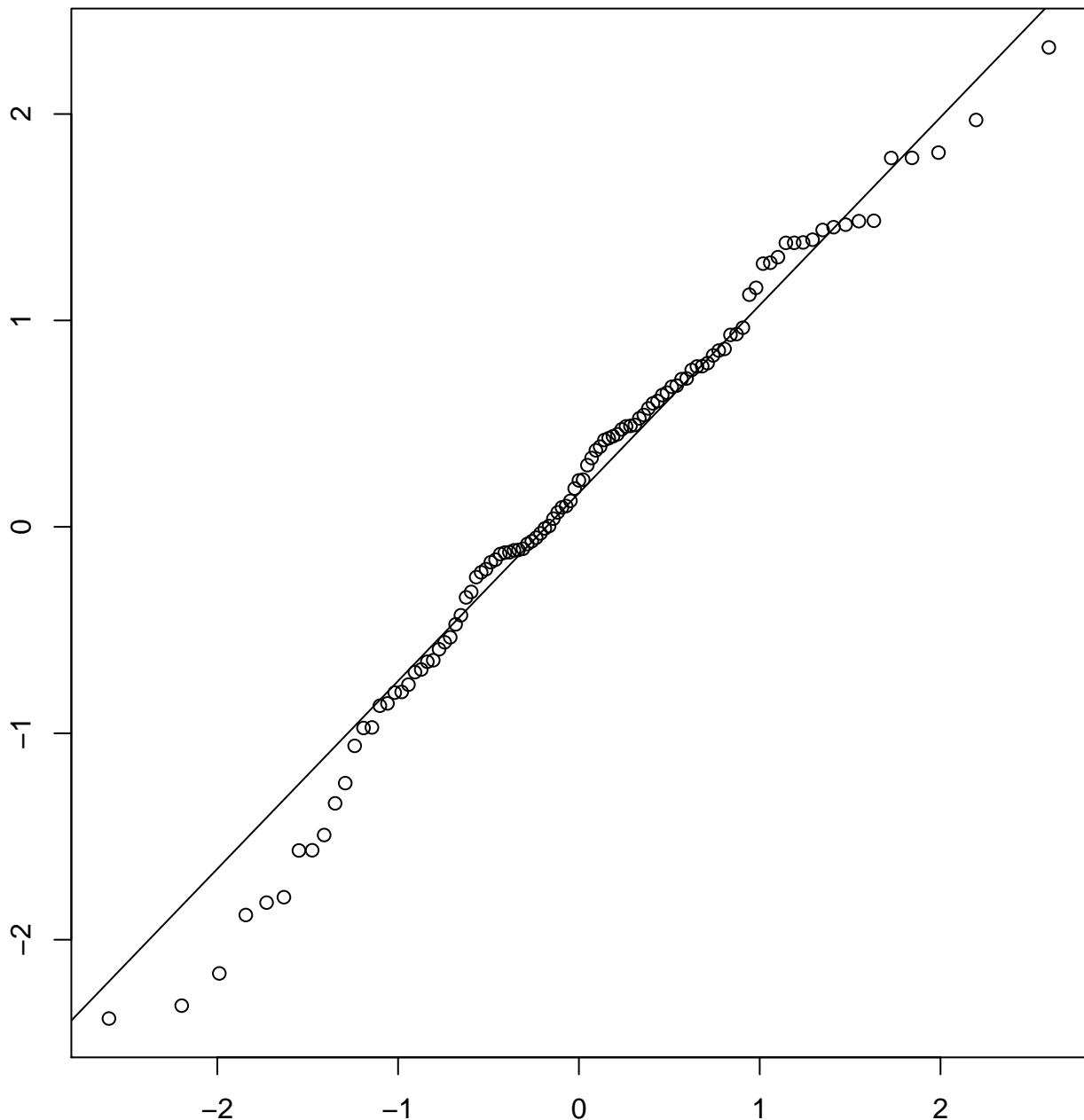
Folland

Sample Quantiles

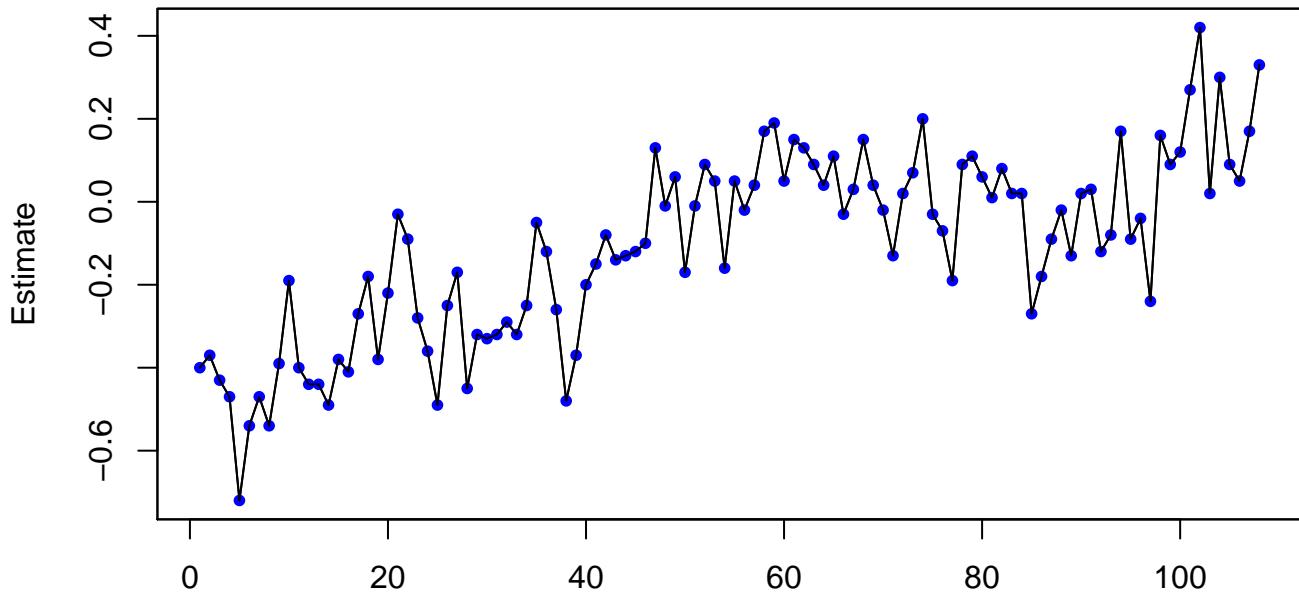


State X1

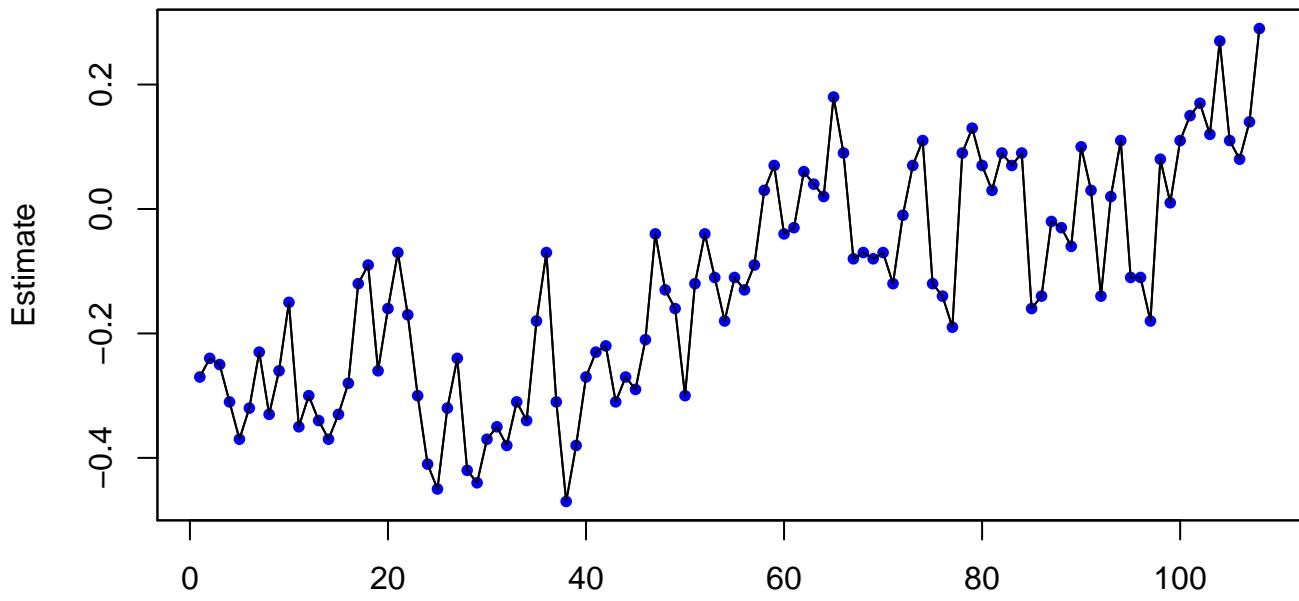
Sample Quantiles



HL + CI

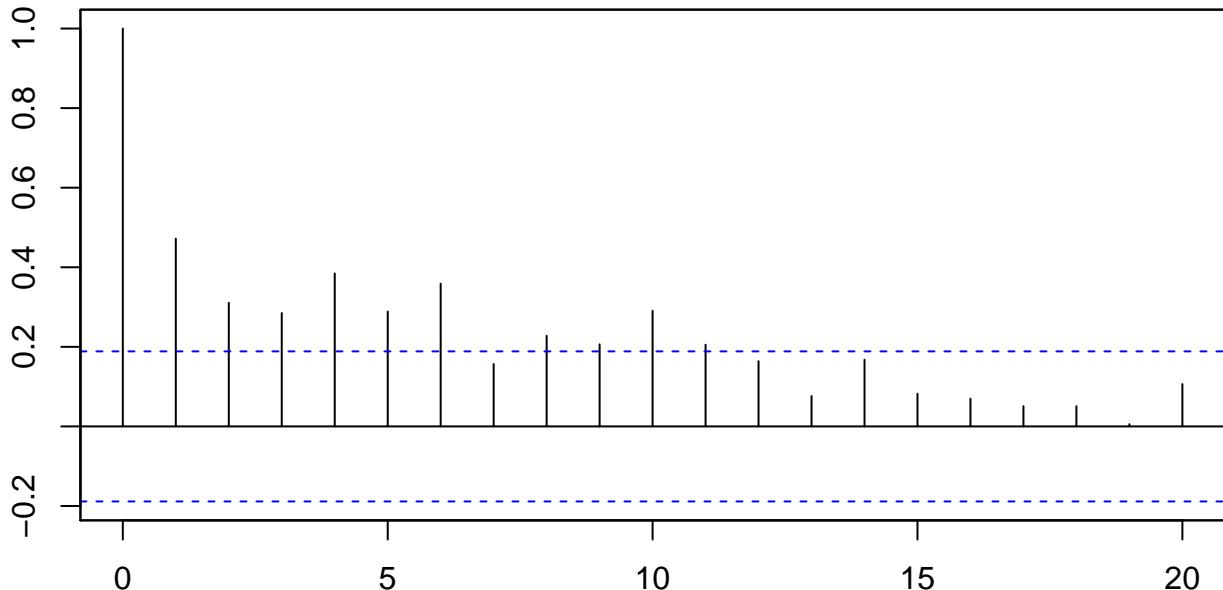


Folland + CI



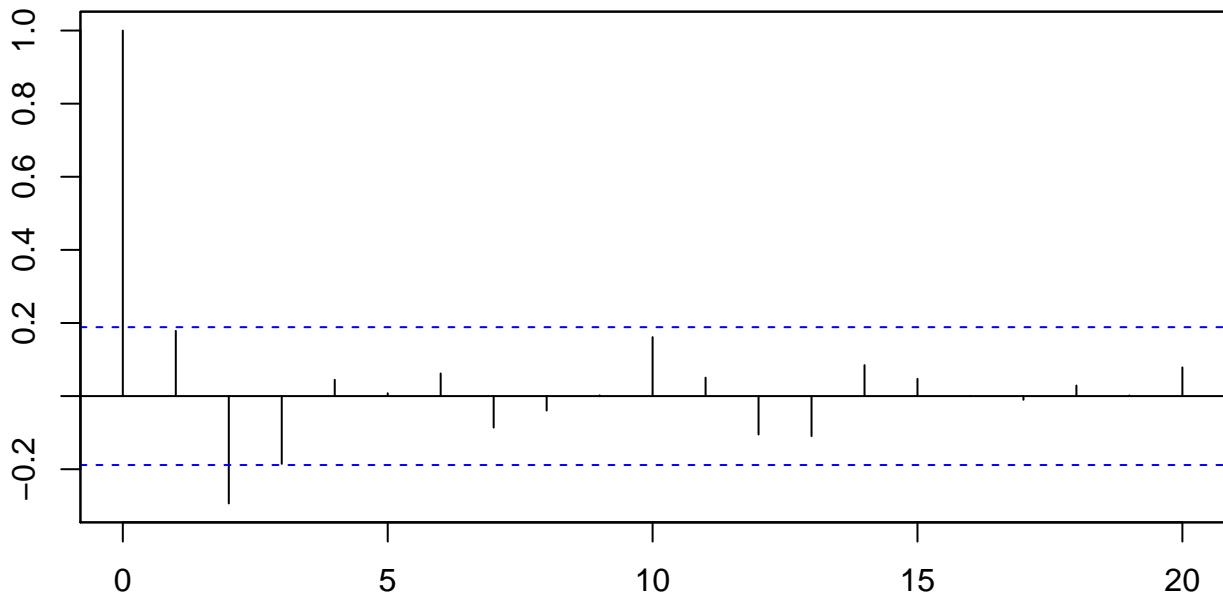
HL

ACF

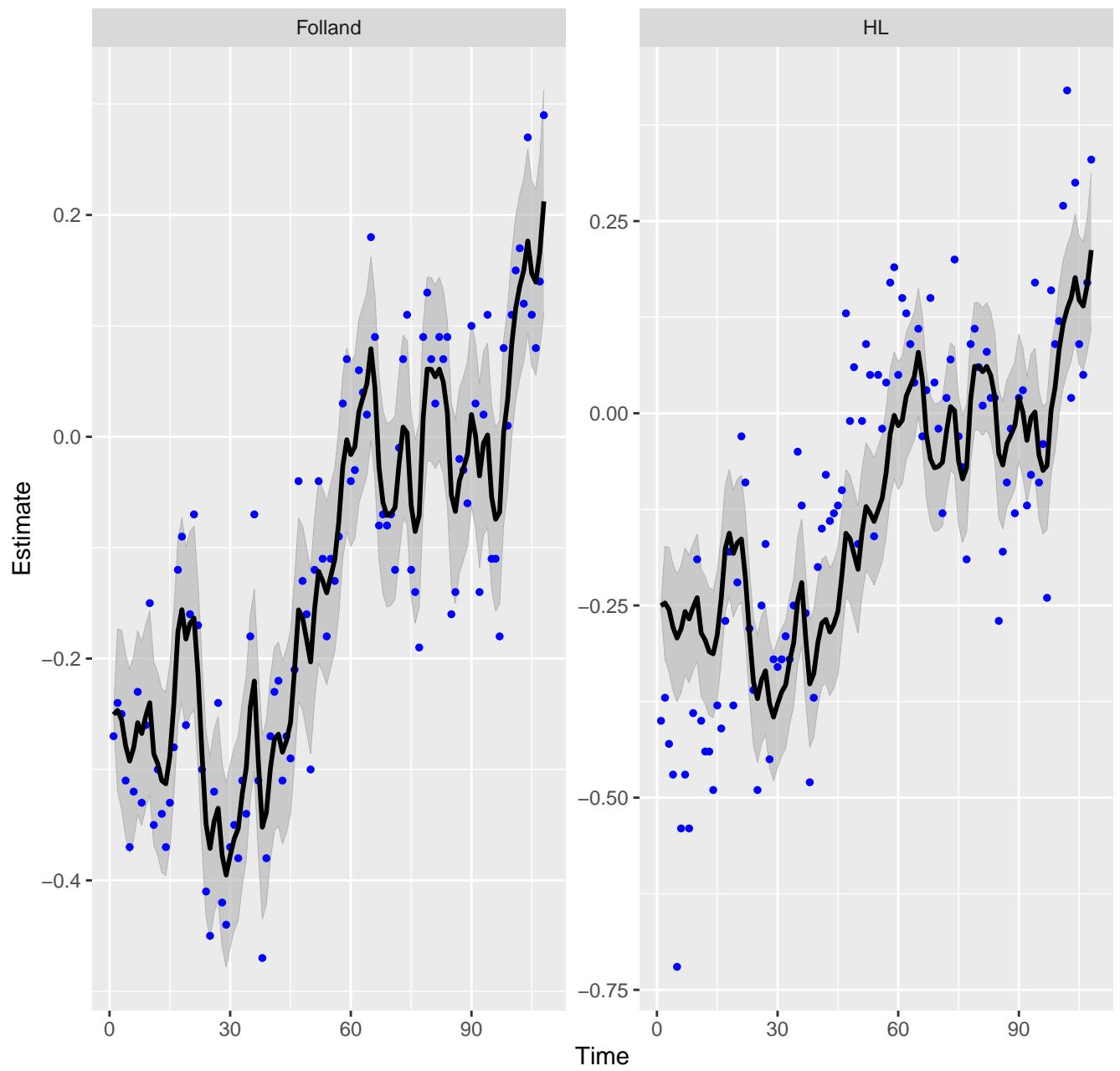


Folland

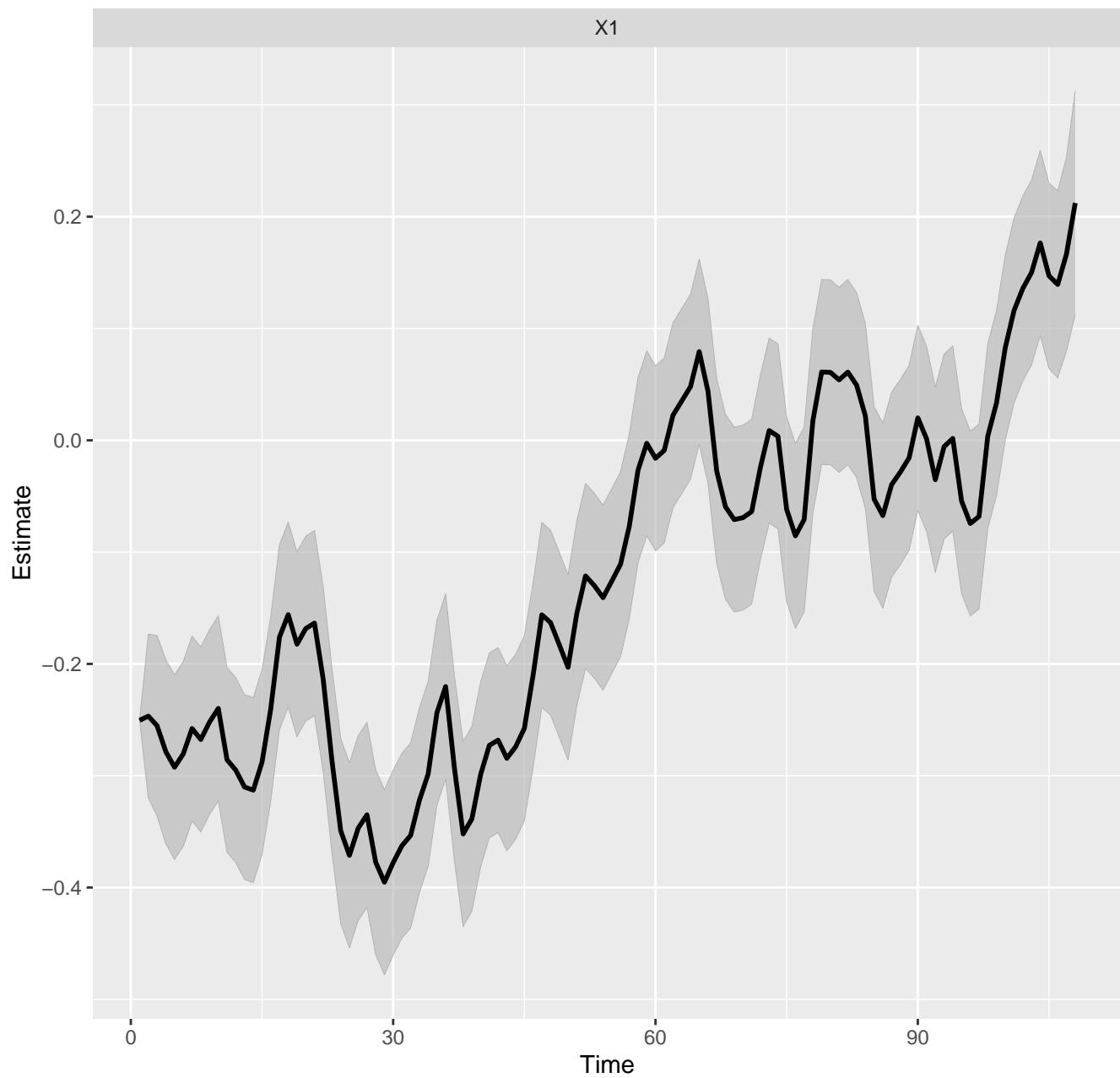
ACF



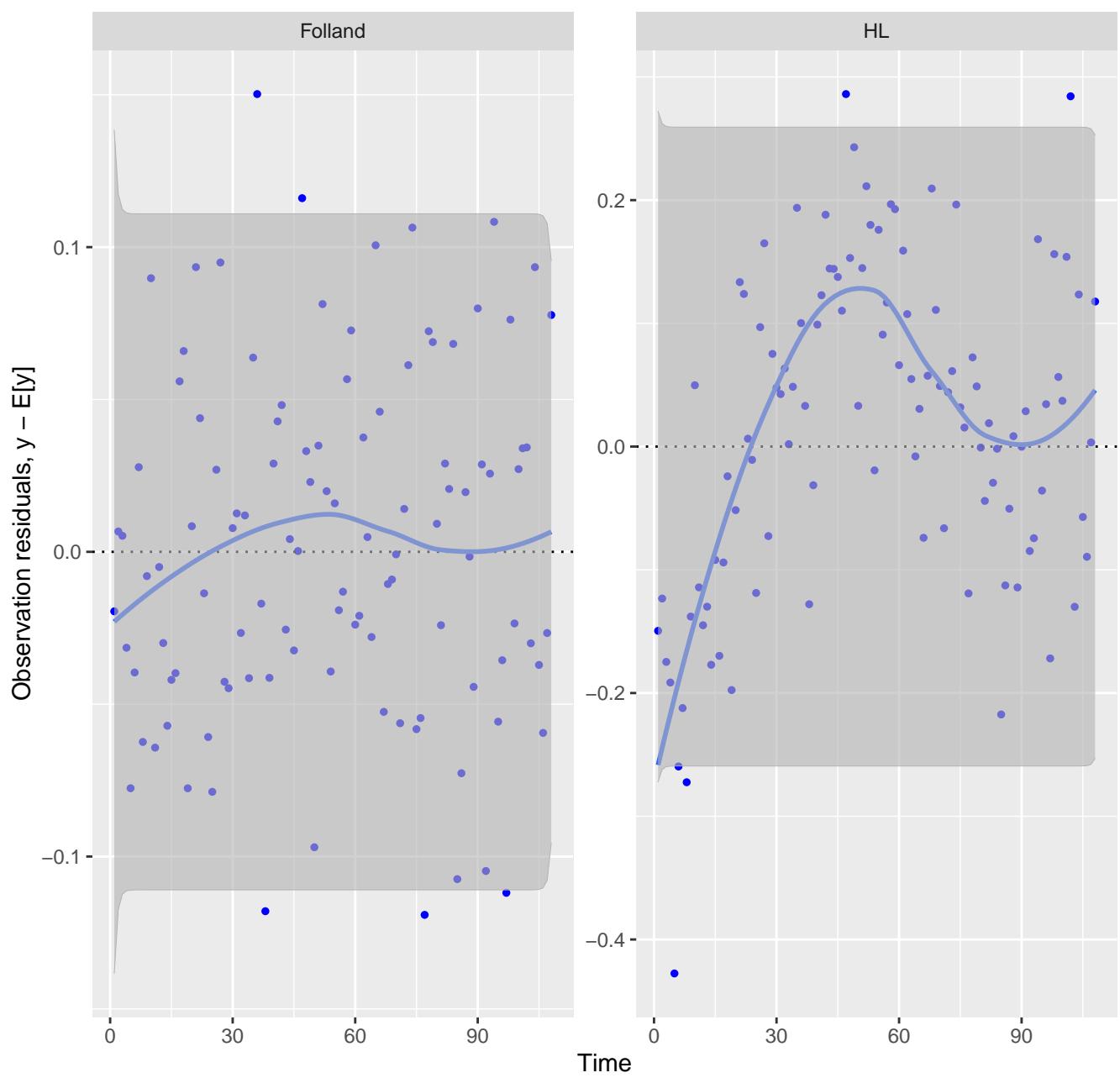
Model fitted Y + CI



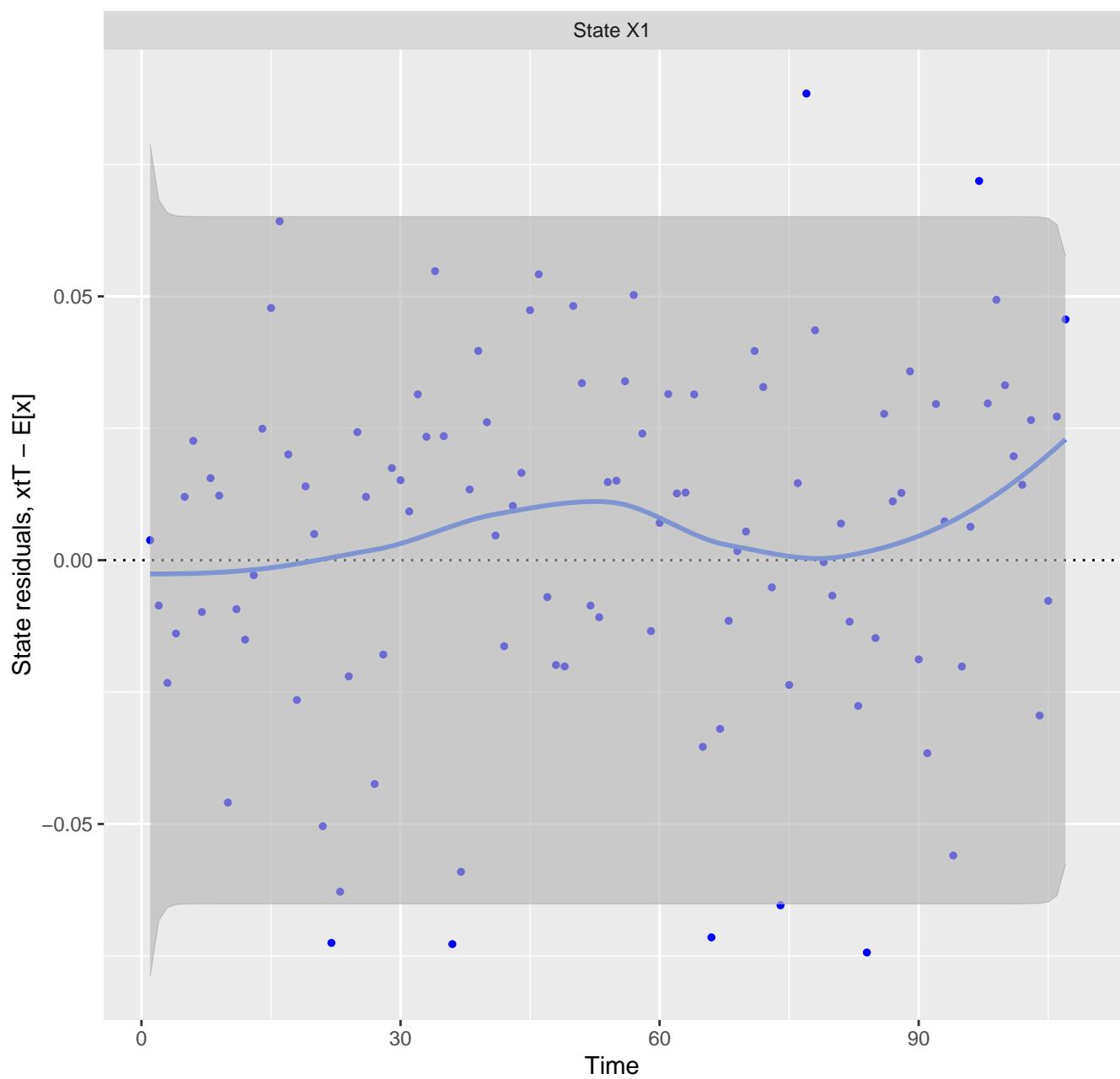
States



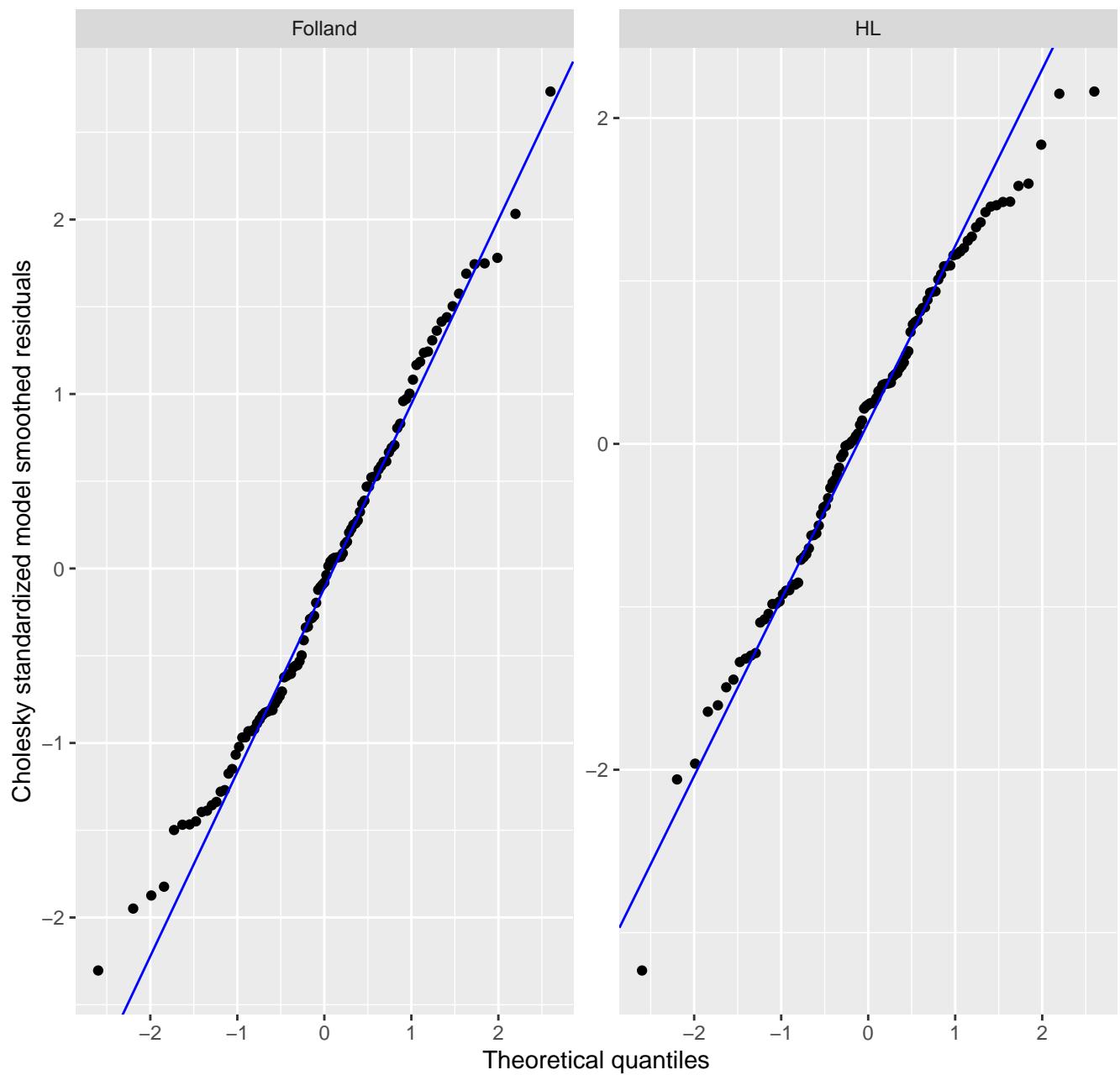
Model residuals



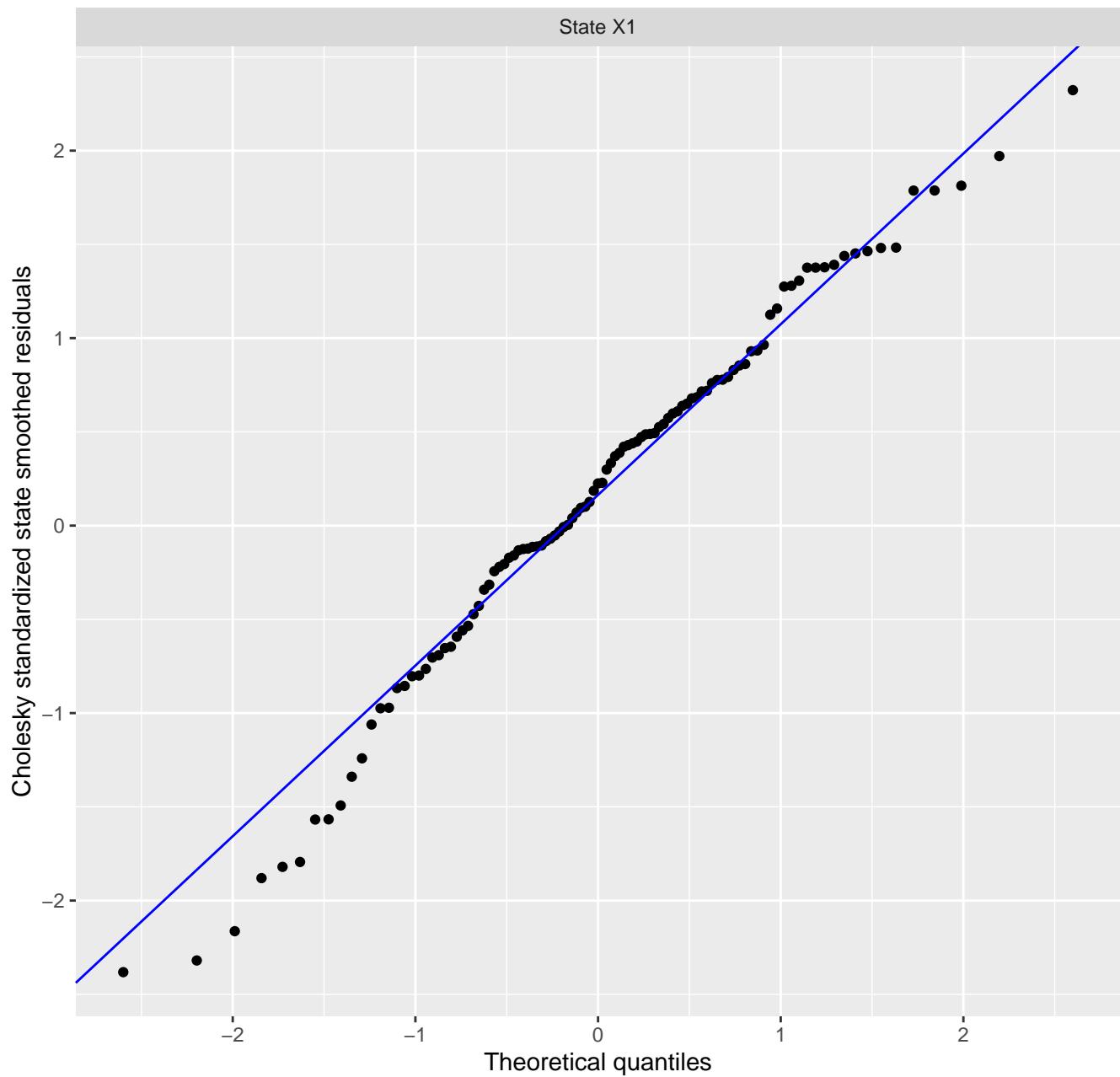
State residuals



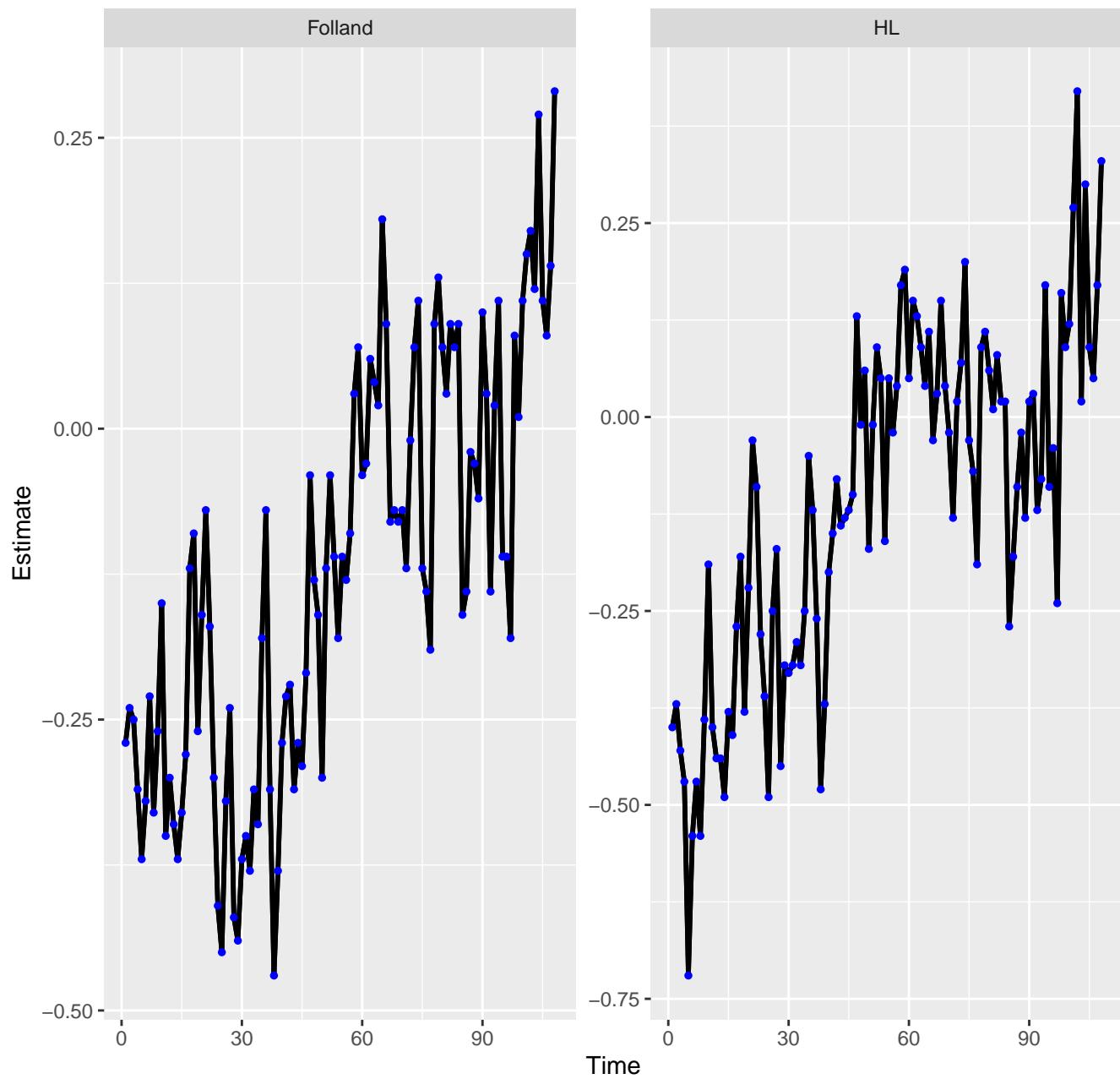
Model residuals normality test



State residuals normality test



Expected value of Y conditioned on data



Model innovations residuals ACF

