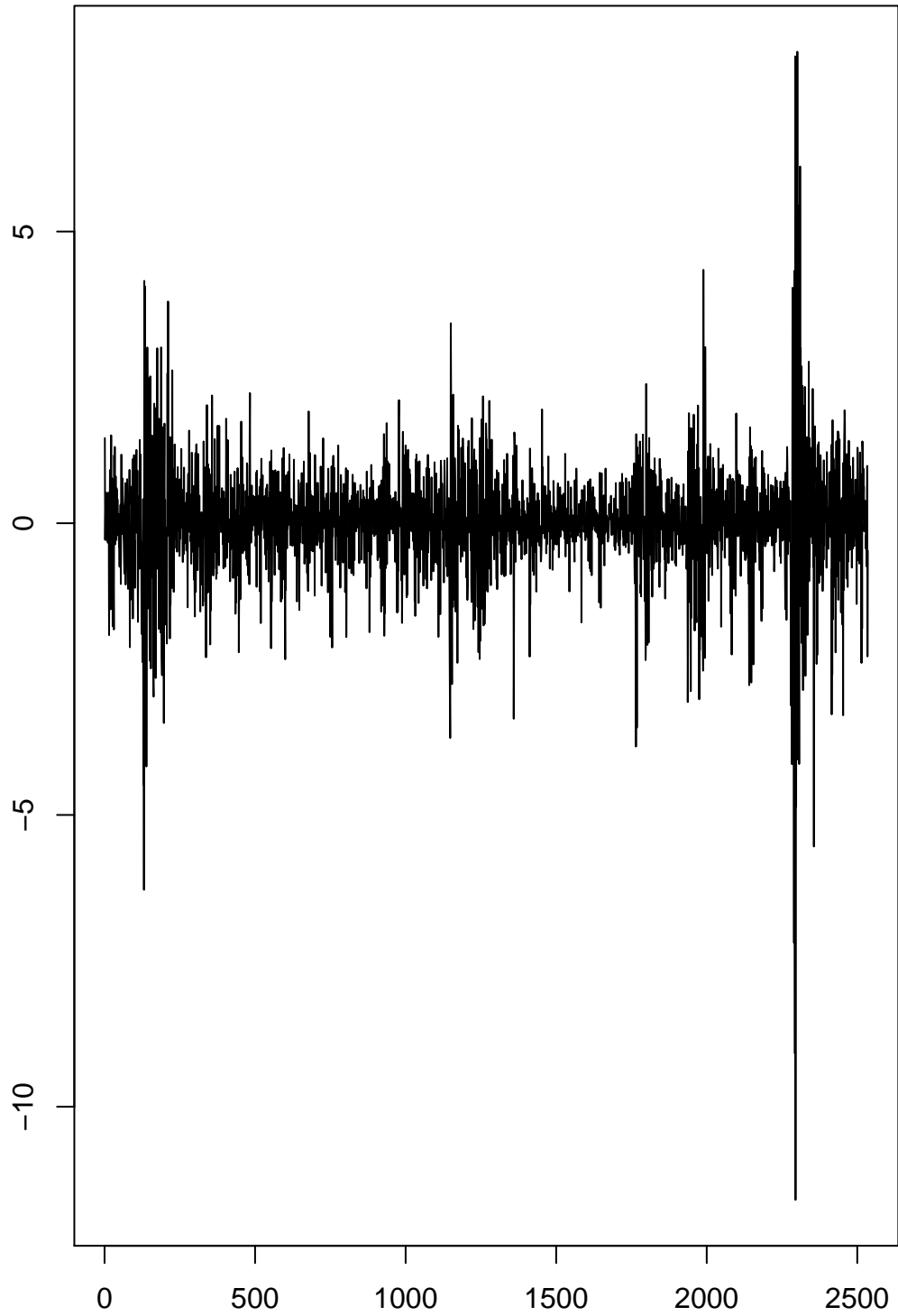
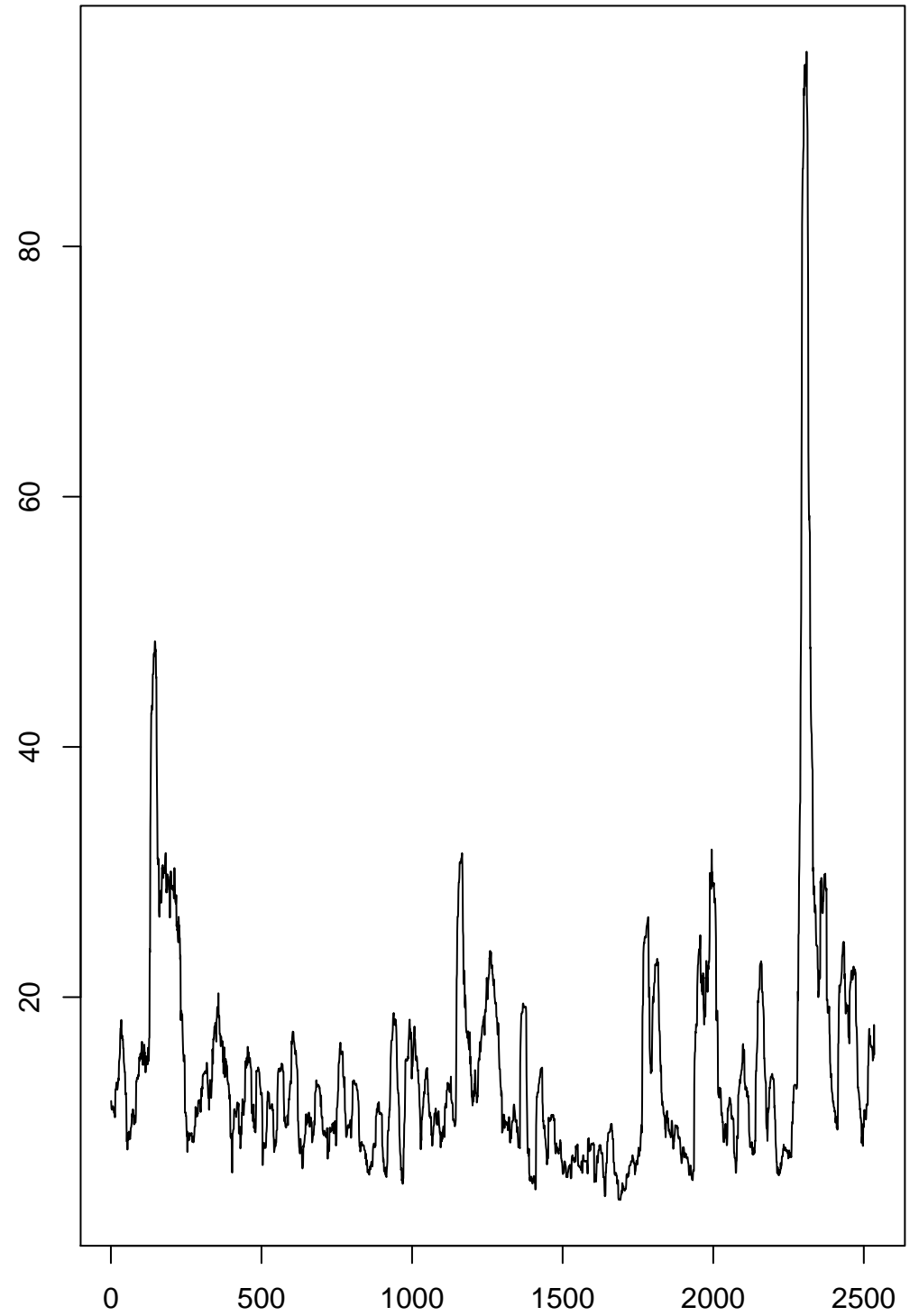


S&P 500 log returns



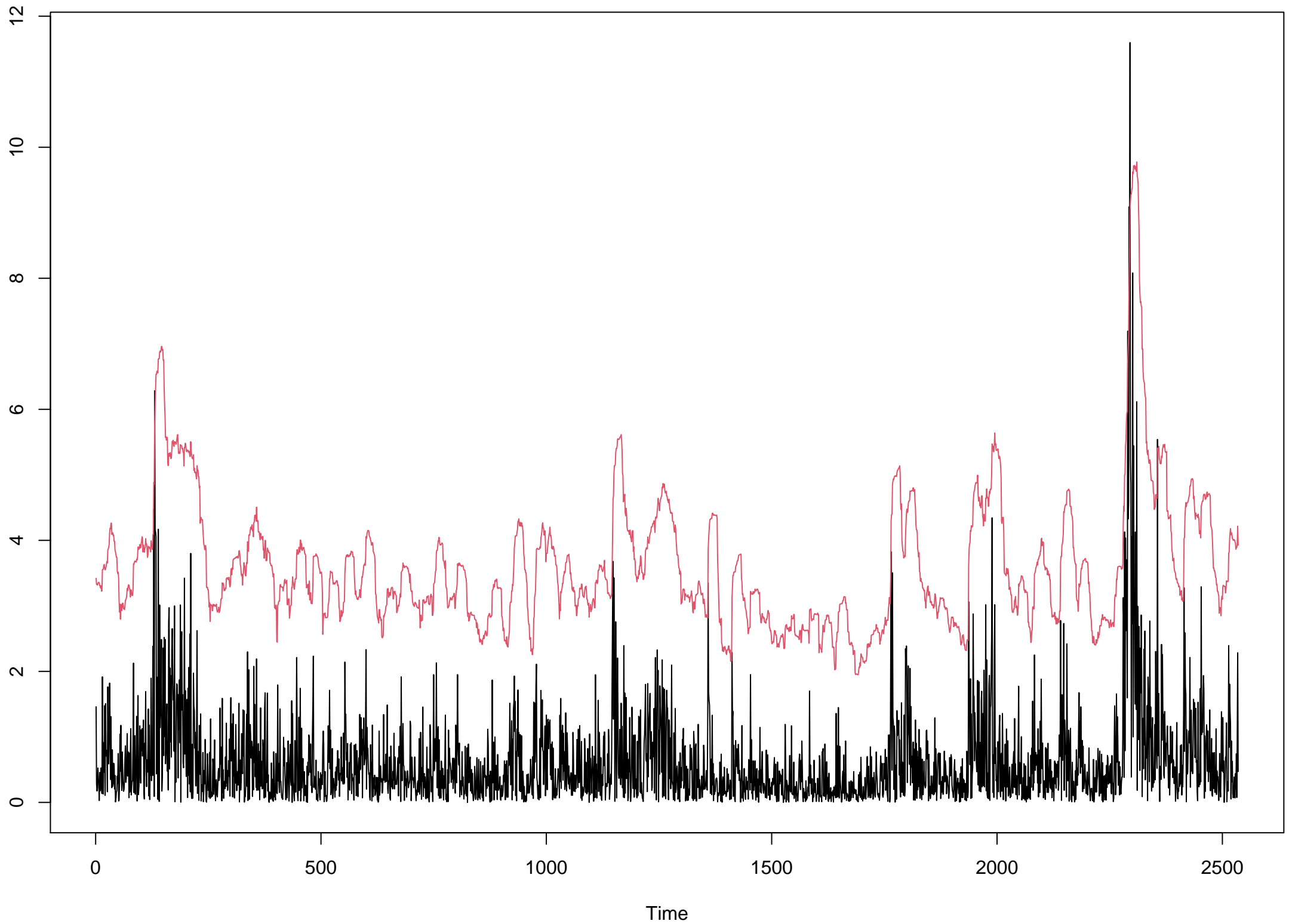
Feb 1 2011 – Feb 26 2021

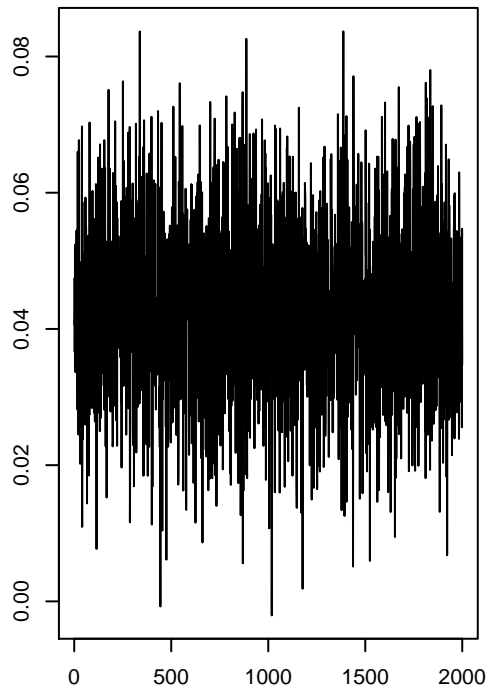
S&P 500 1–Month Realized Volatility Index



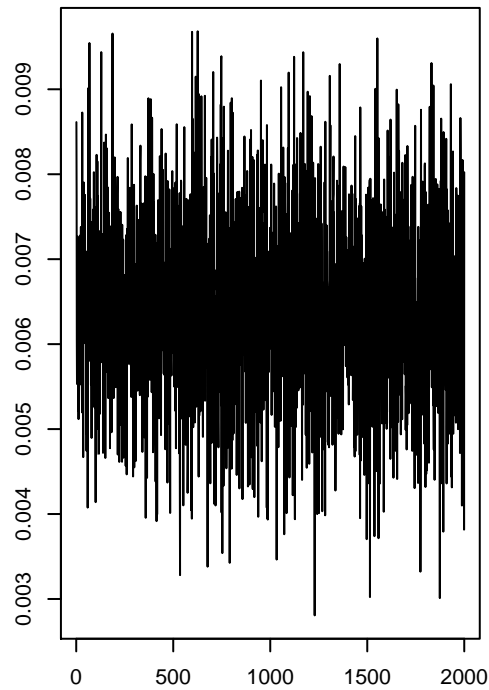
Feb 1 2011 – Feb 26 2021

S&P 500 log returns vs realized volatility

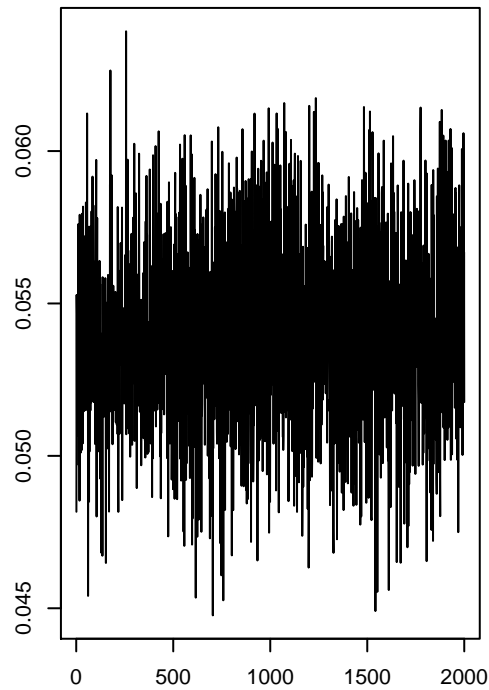


μ 

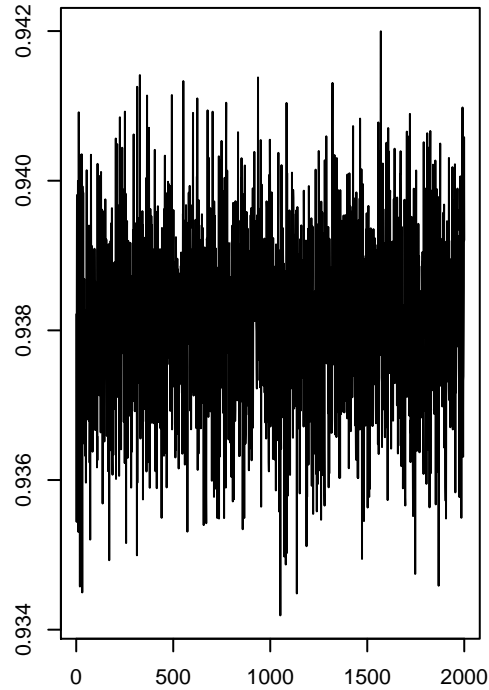
Iterations

 α_0 

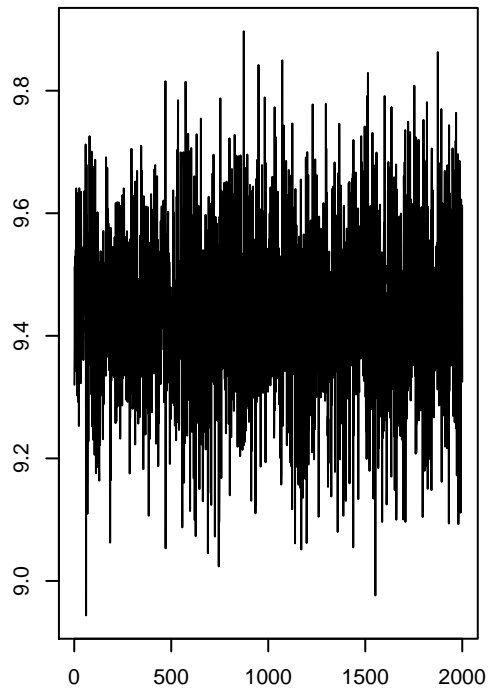
Iterations

 α_1 

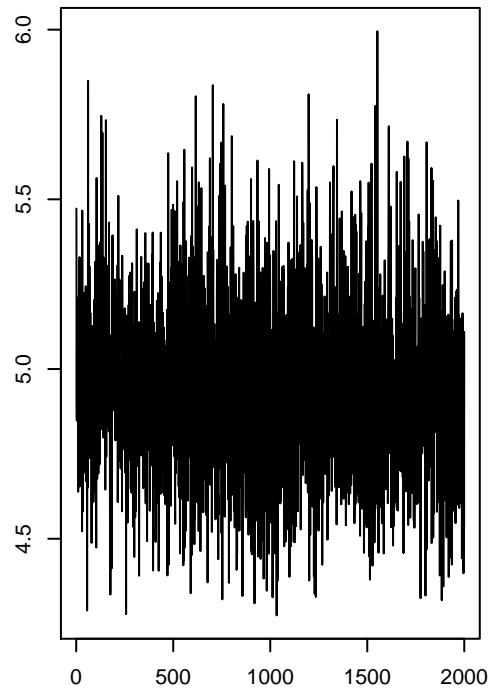
Iterations

 β_1 

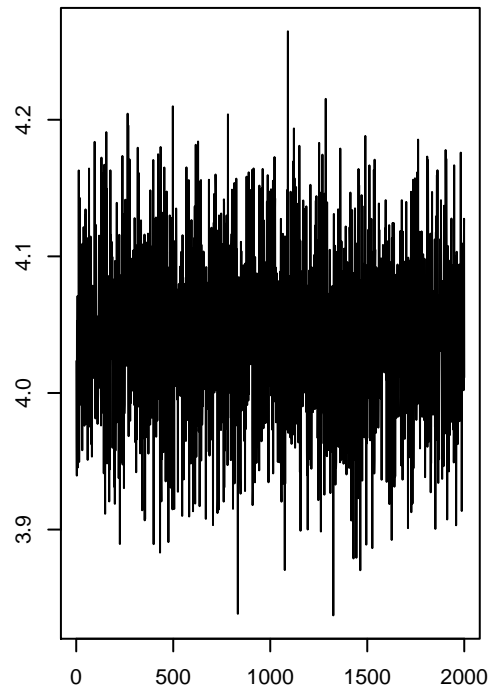
Iterations

 γ_0 

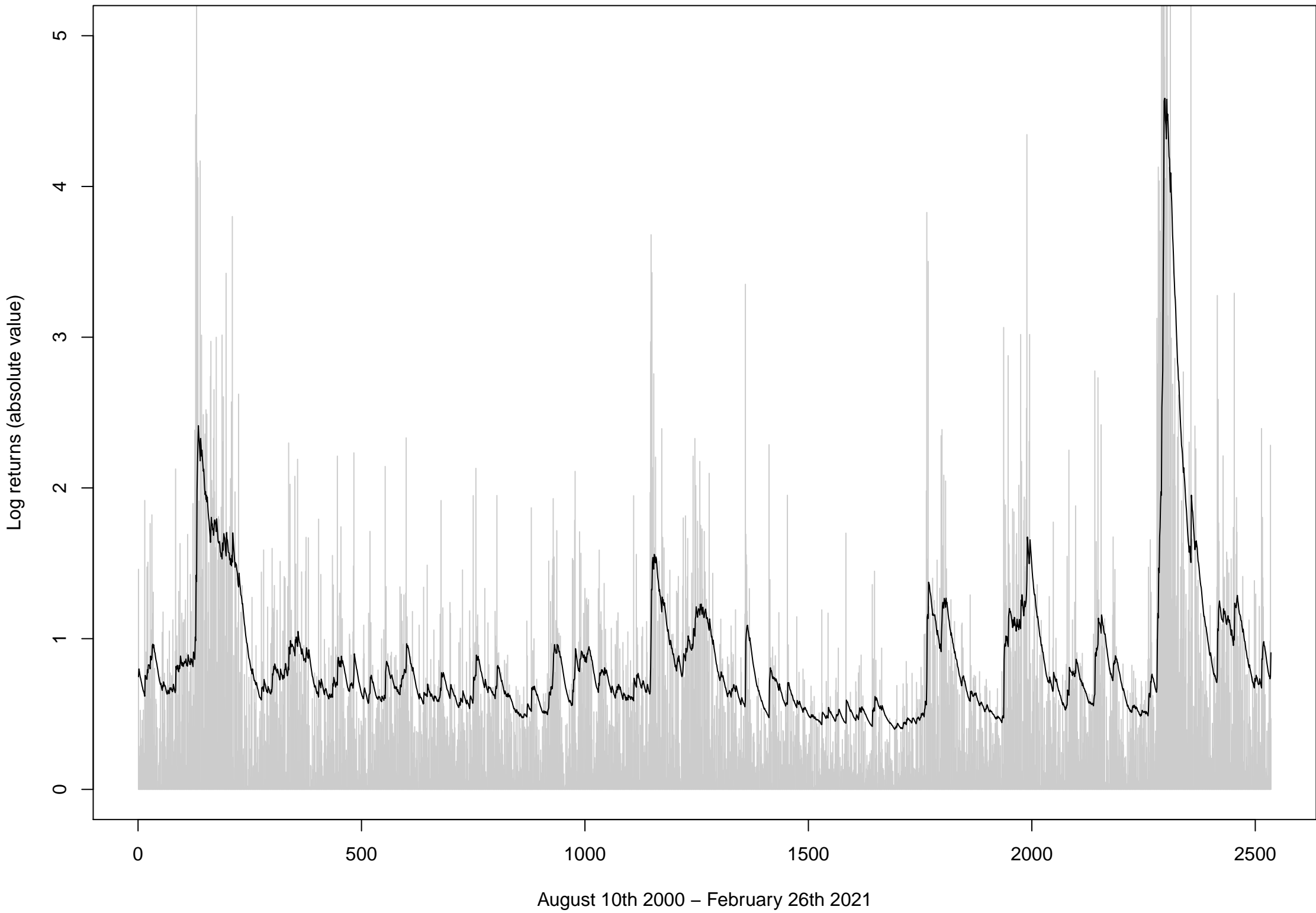
Iterations

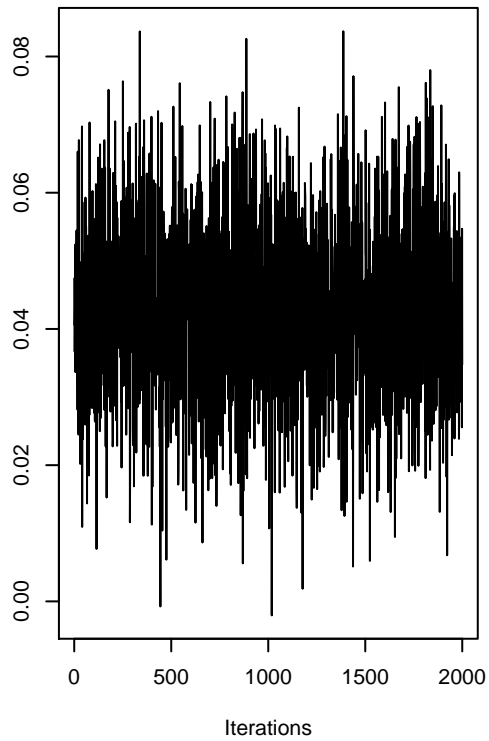
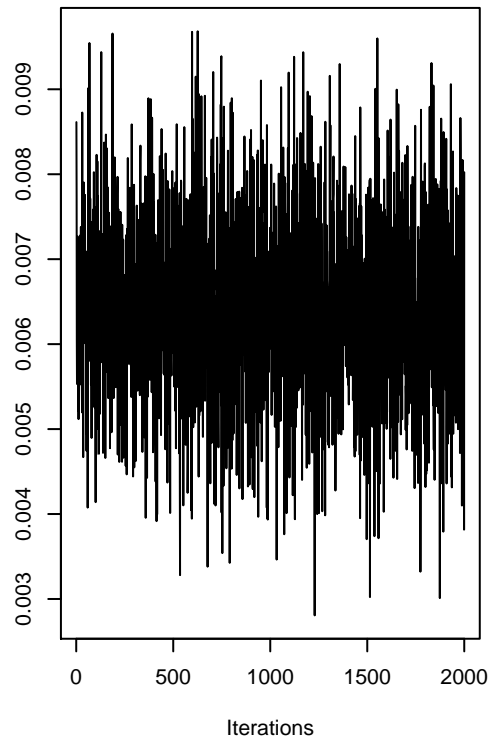
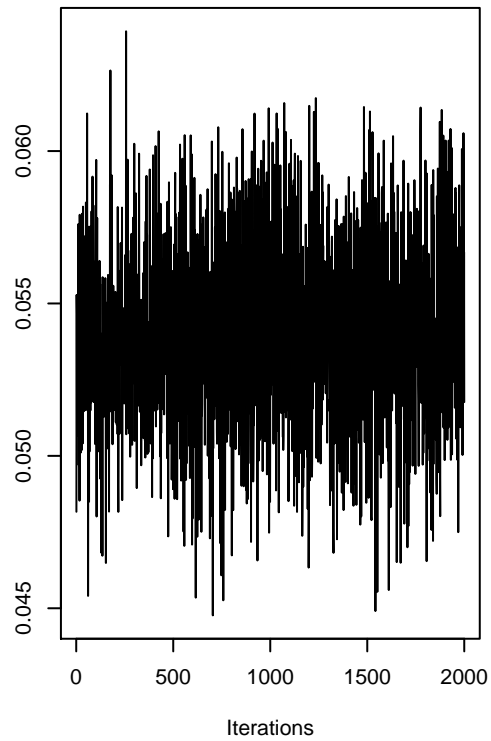
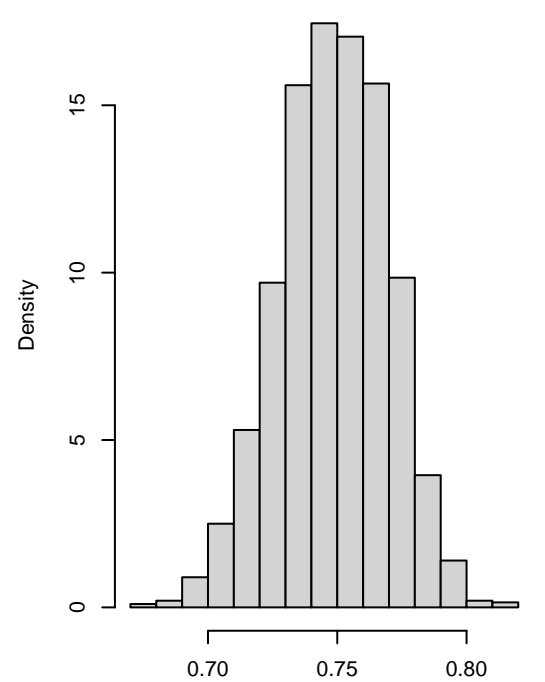
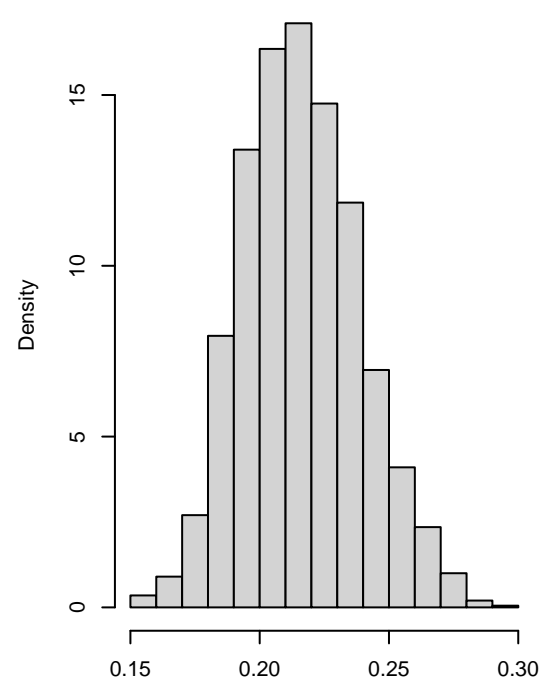
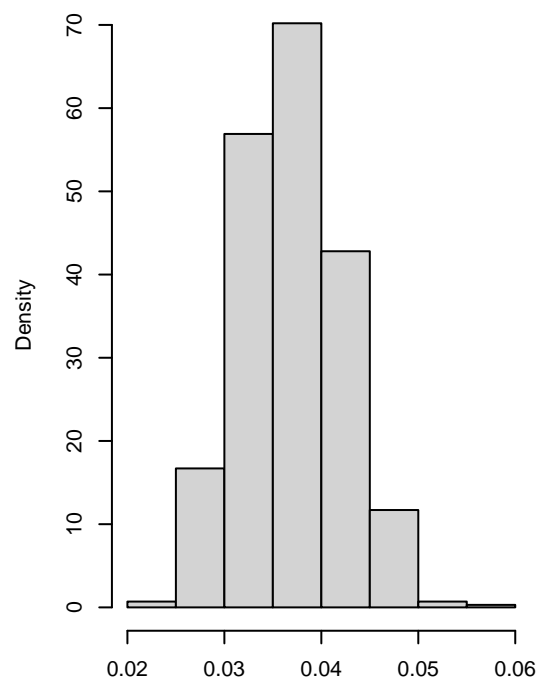
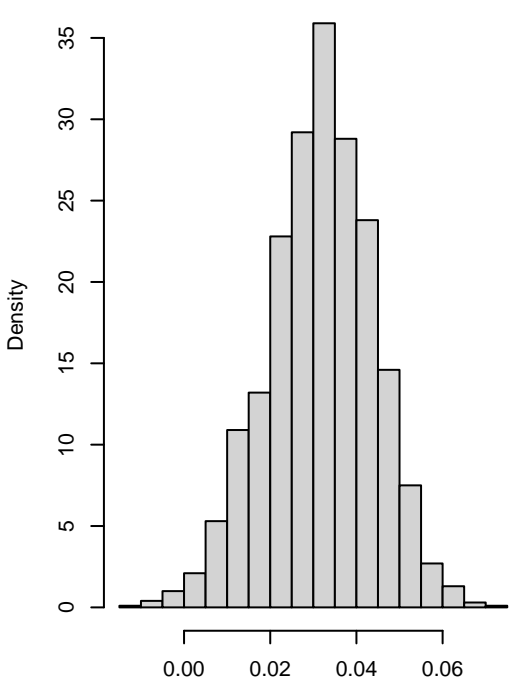
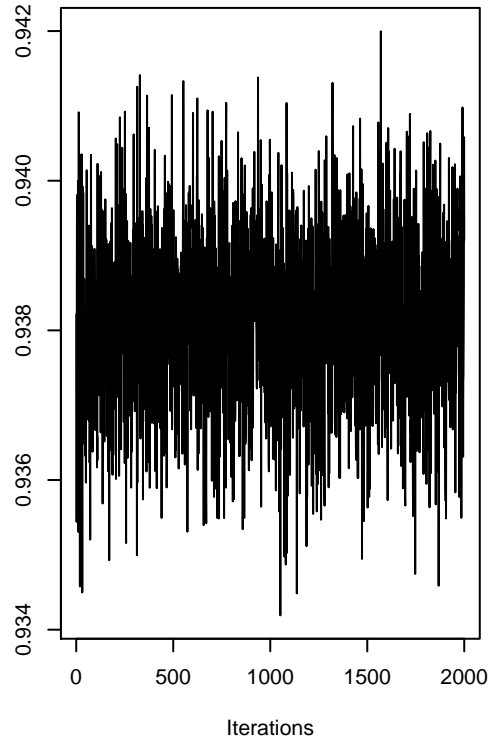
 γ_1 

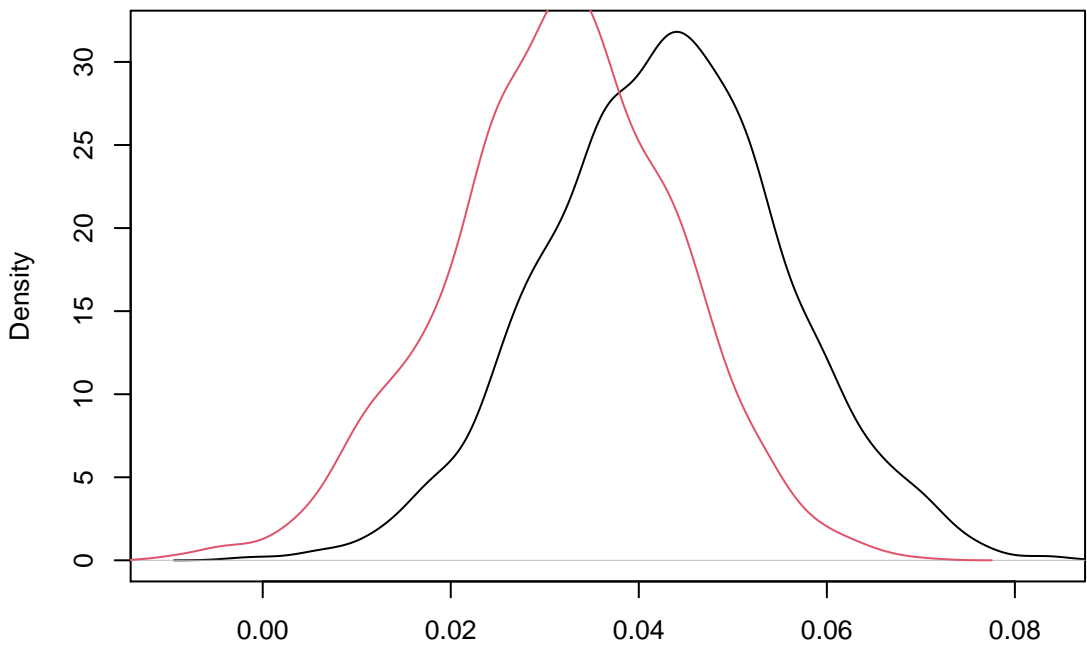
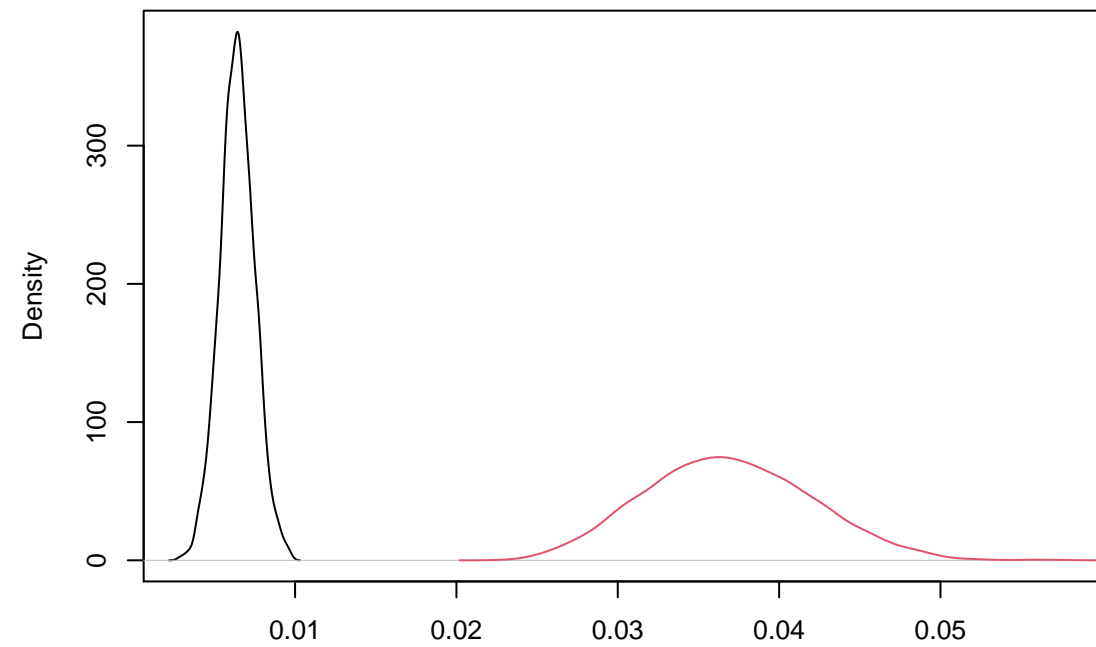
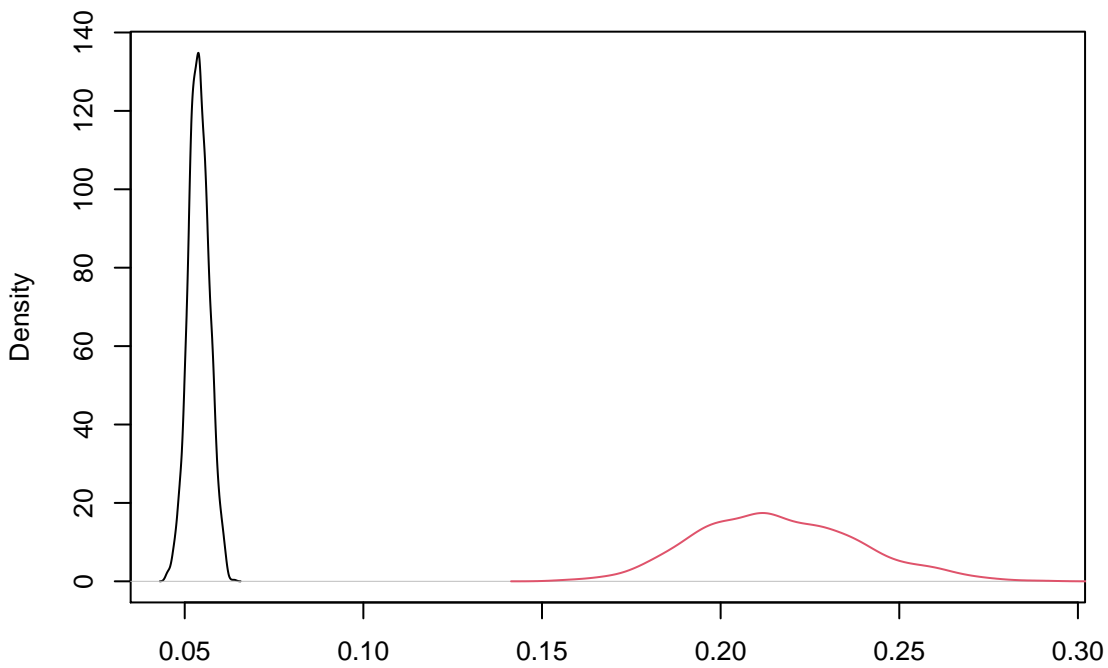
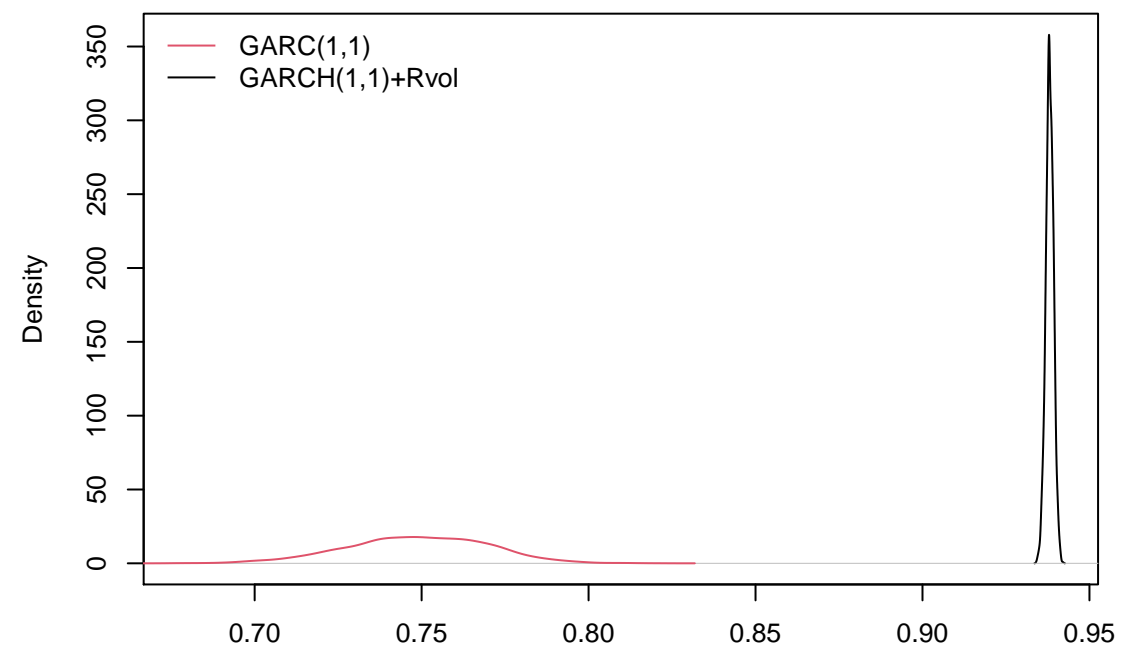
Iterations

 τ 

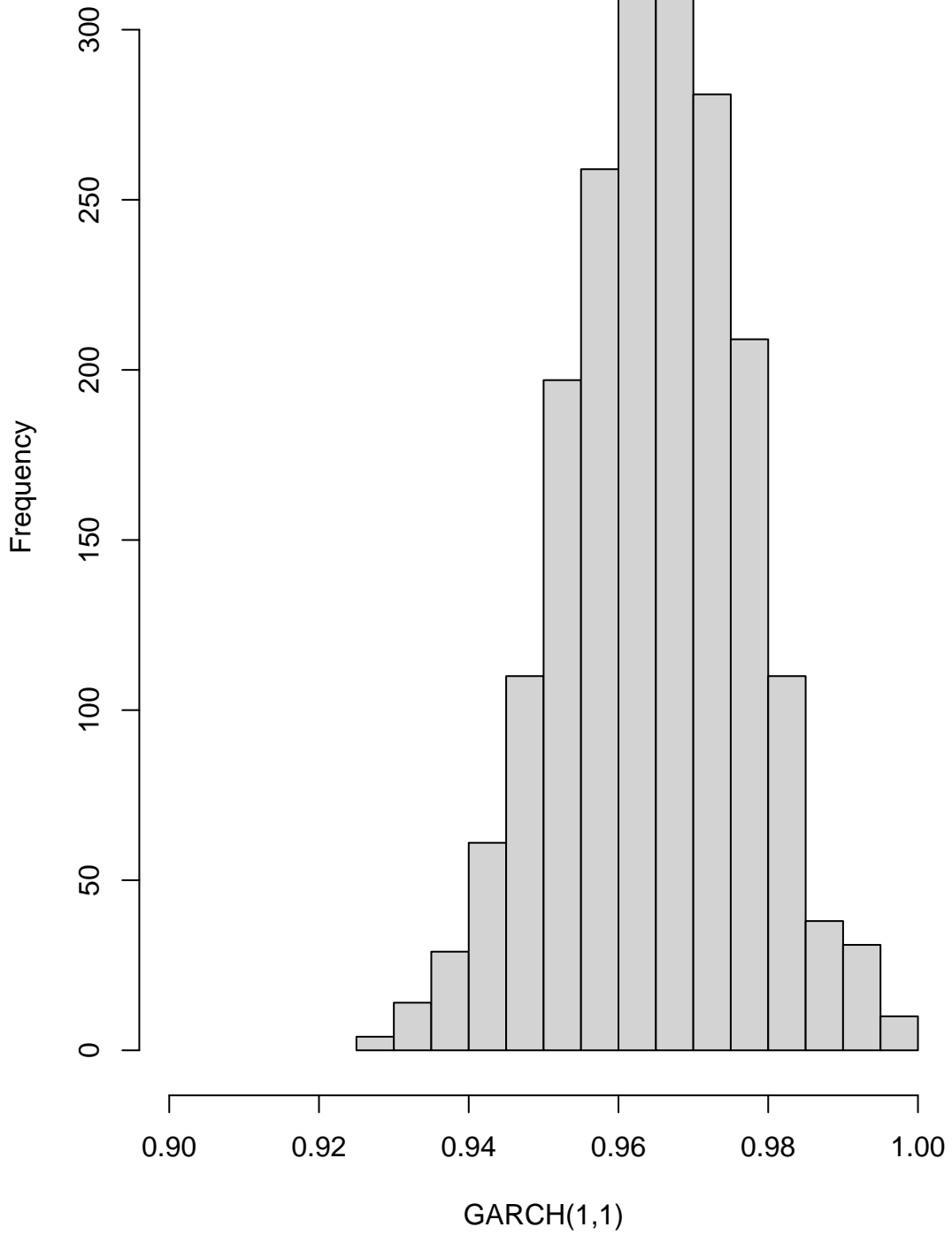
Iterations



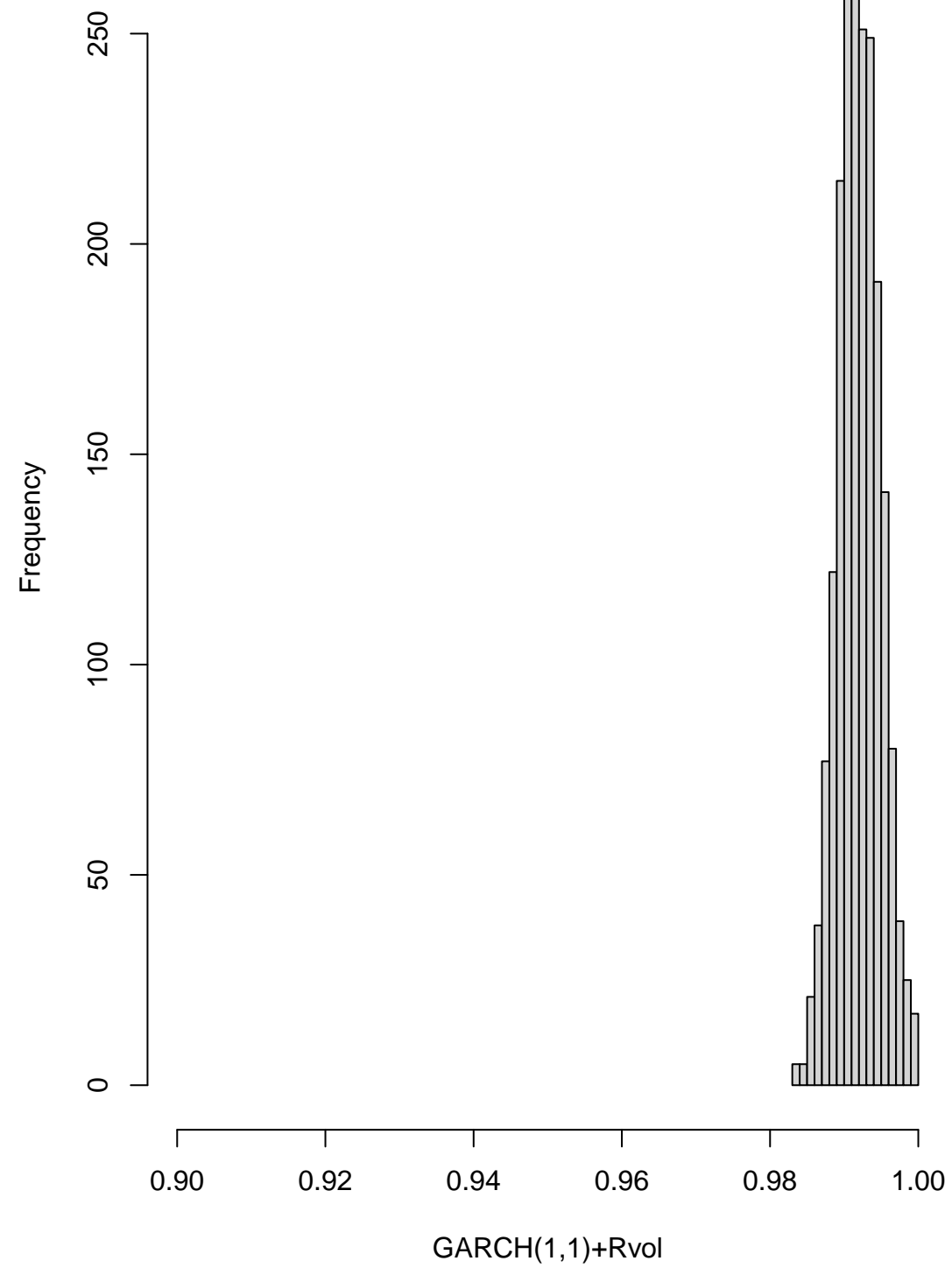
μ  α_0  α_1  β_1 

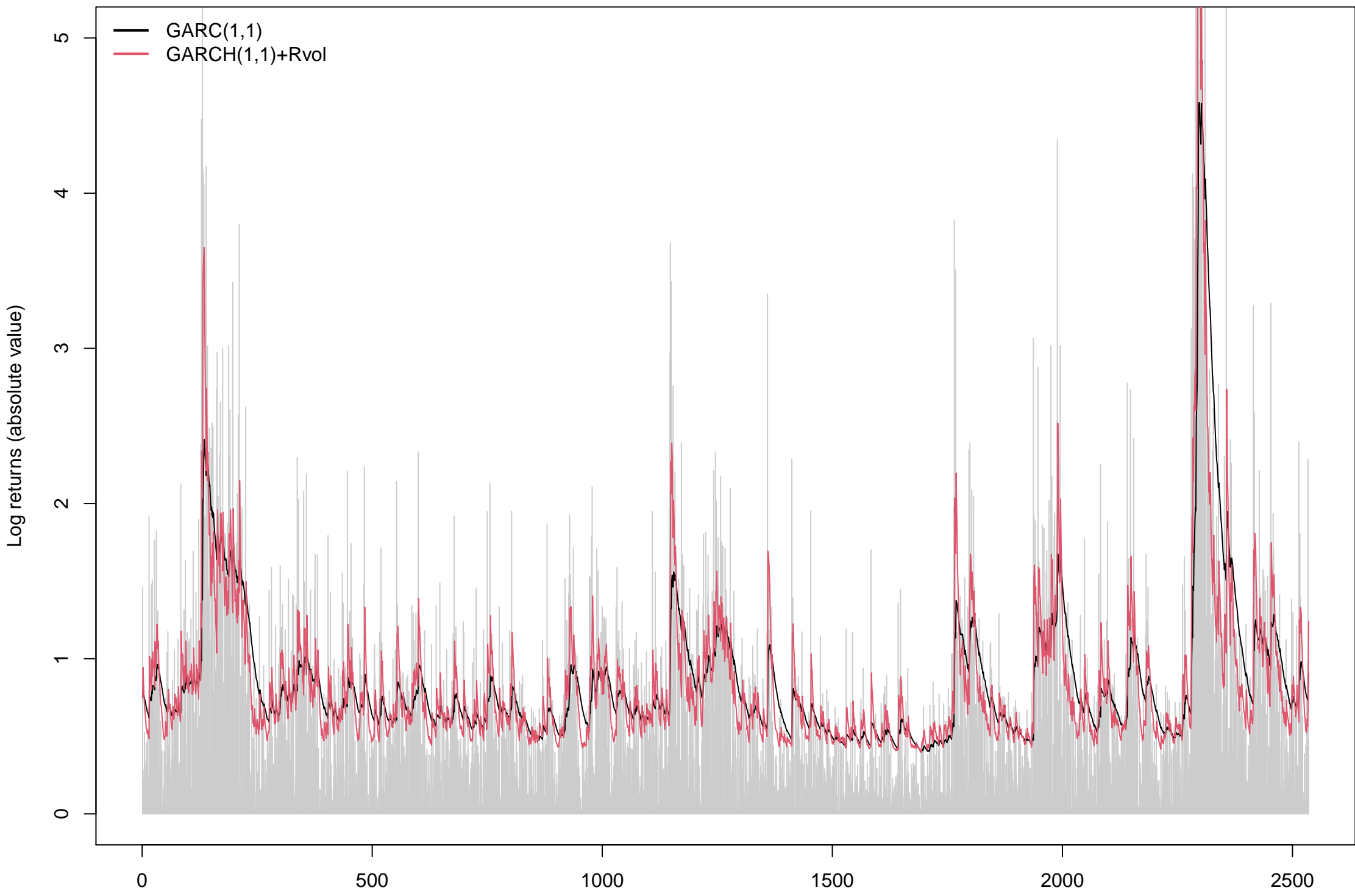
μ  α_0  α_1  β_1 

$$\alpha_1 + \beta_1$$



$$\alpha_1 + \beta_1$$





August 10th 2000 – February 26th 2021

