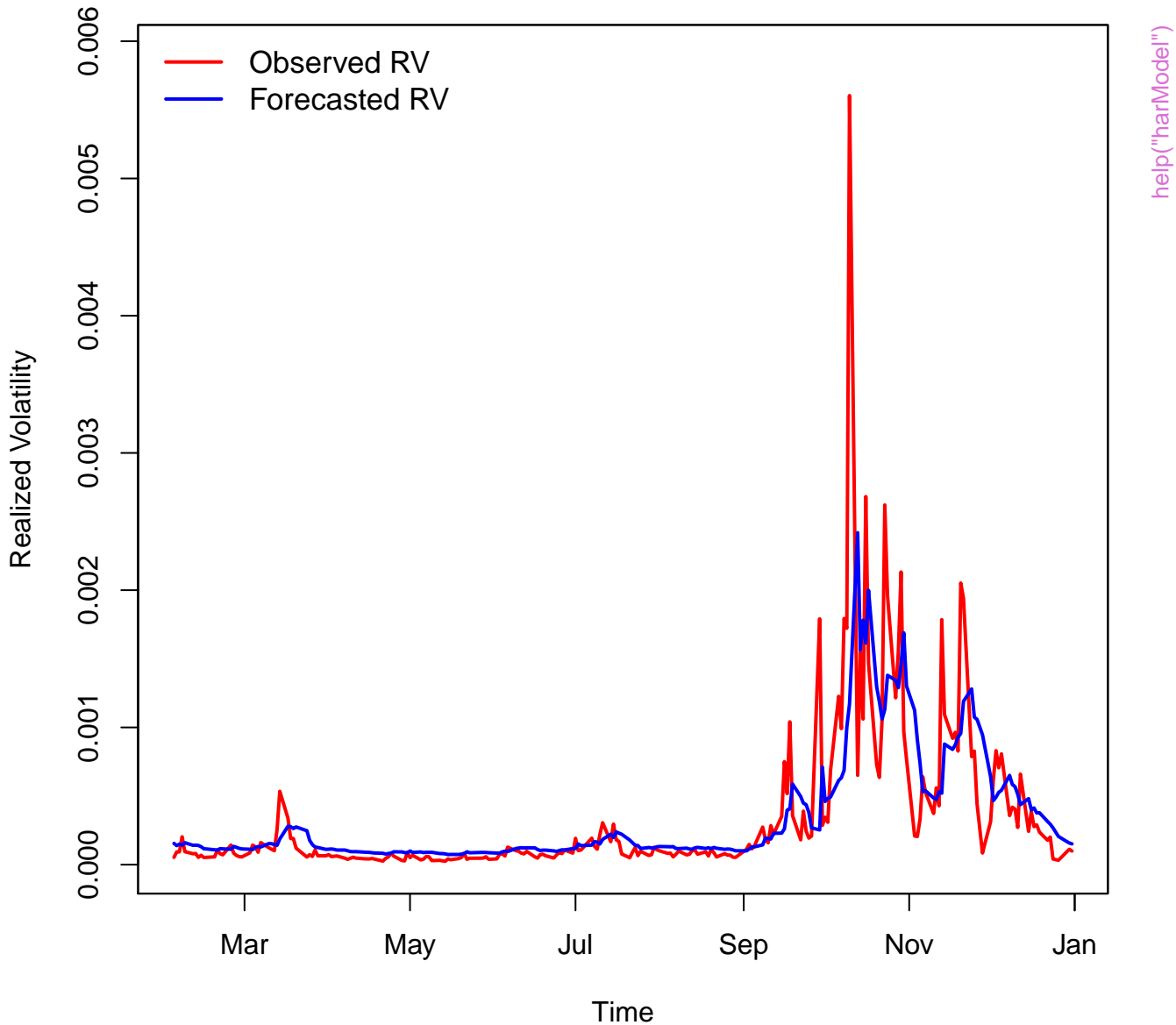
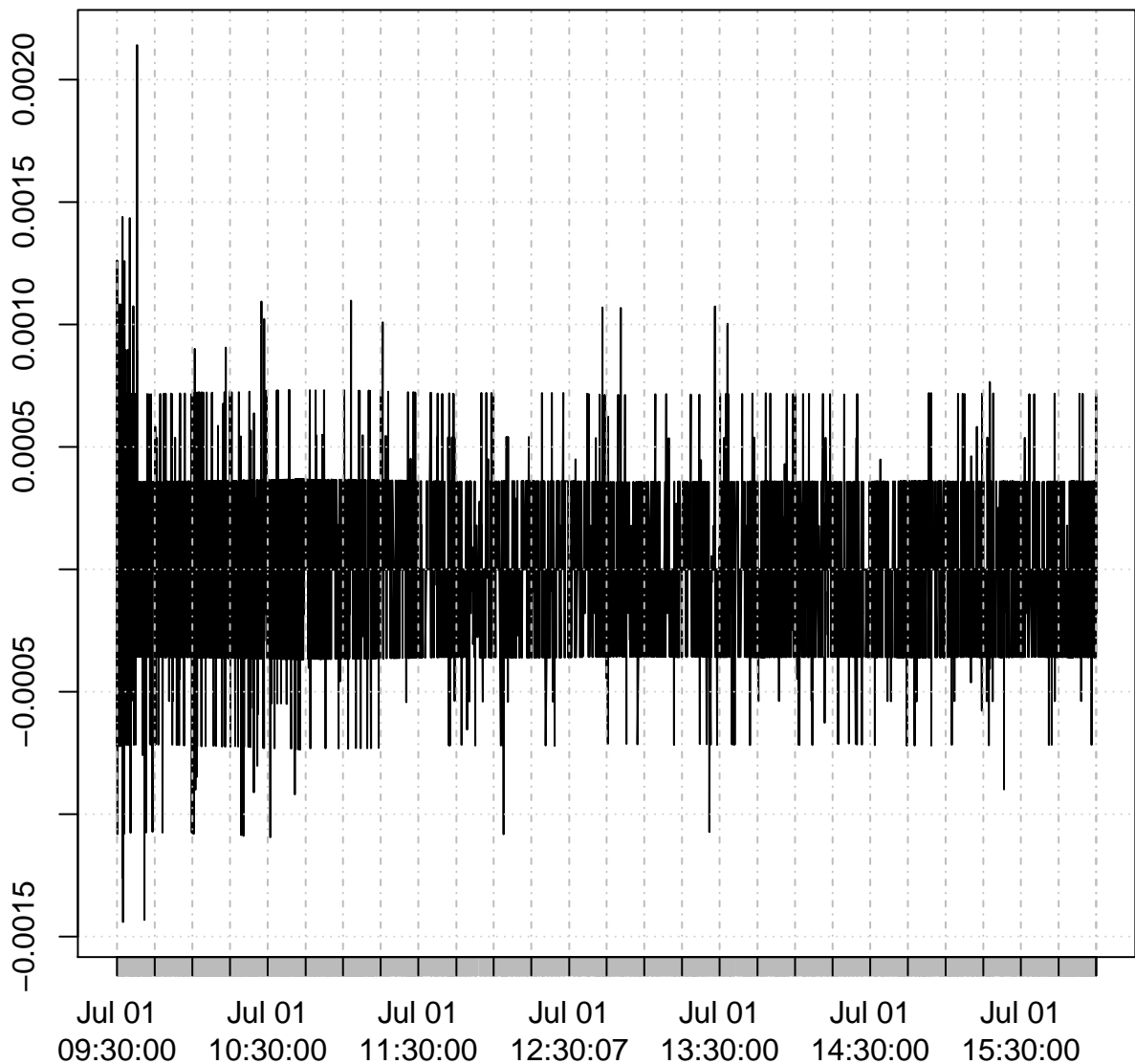


## Observed and forecasted RV based on HAR Model: HARRV

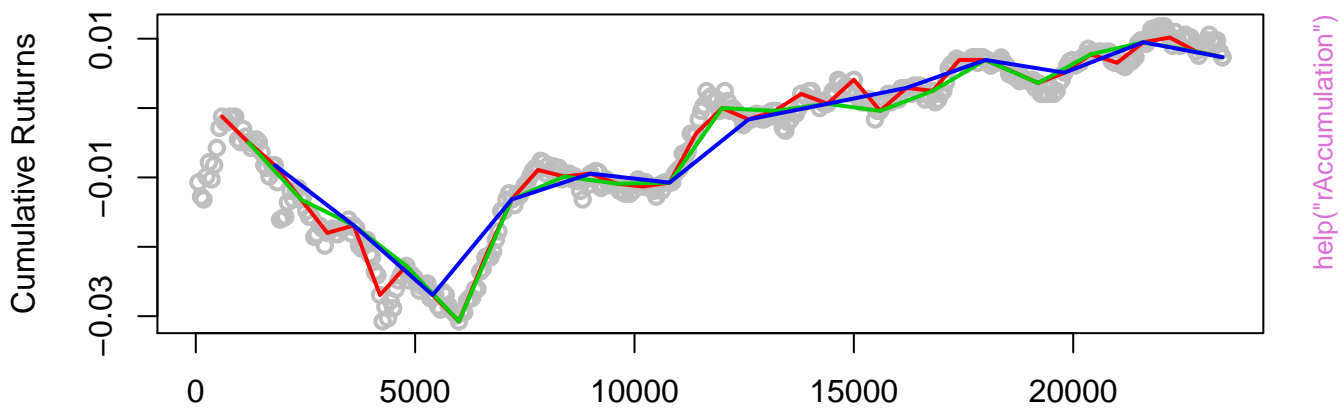


# lltc.xts

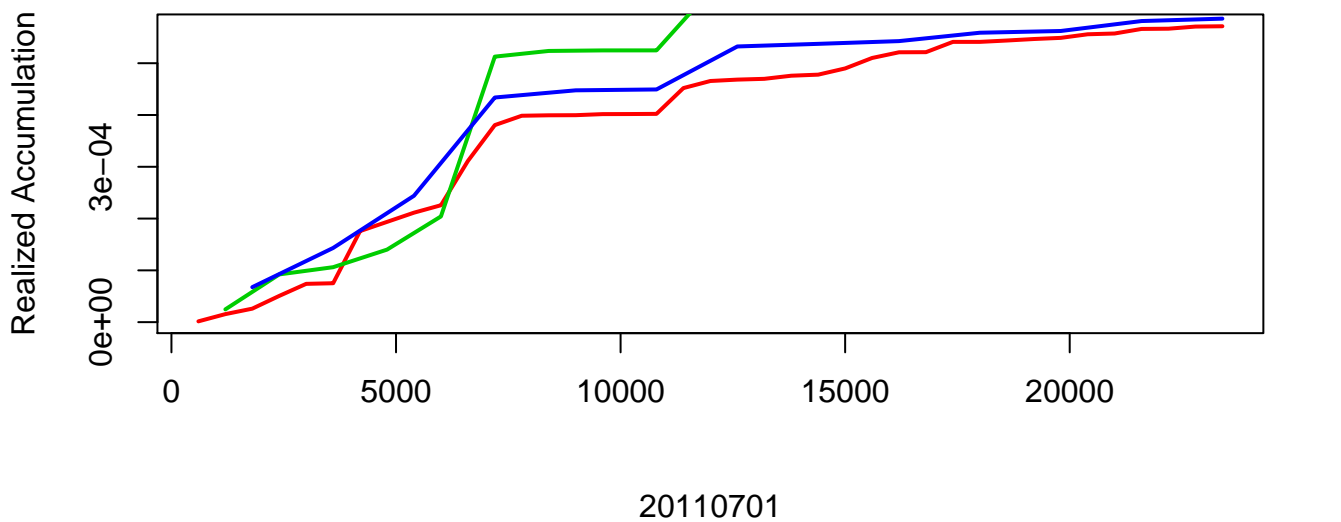


[help\("lltc.xts"\)](#)

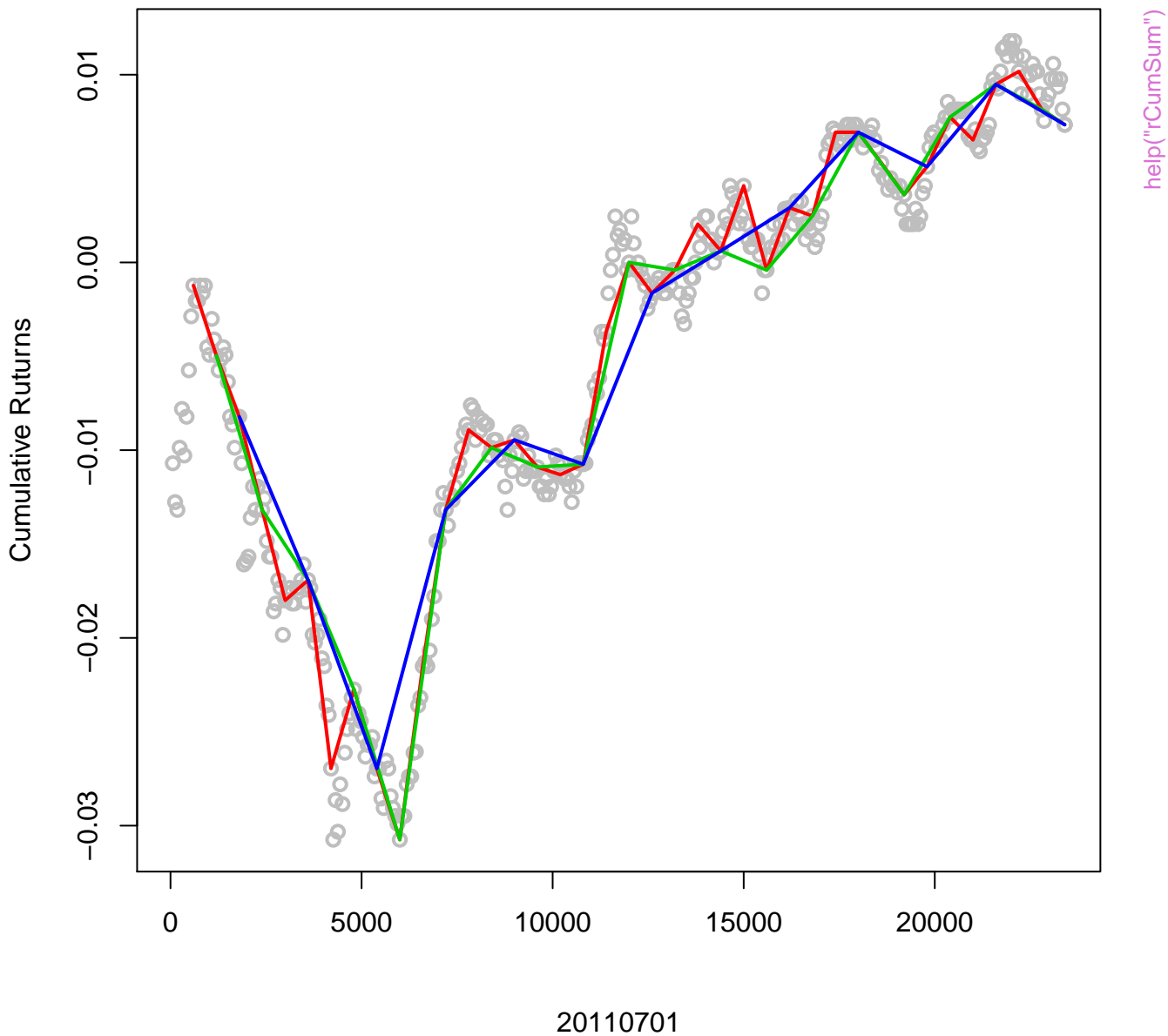
## Starbucks (SBUX)



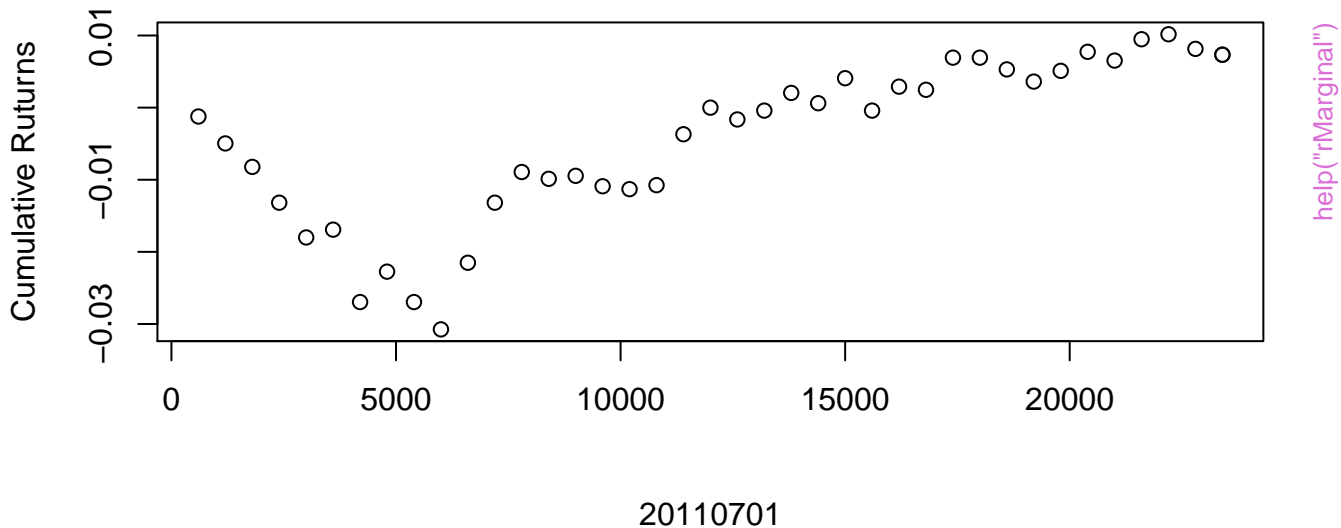
## Starbucks (SBUX)



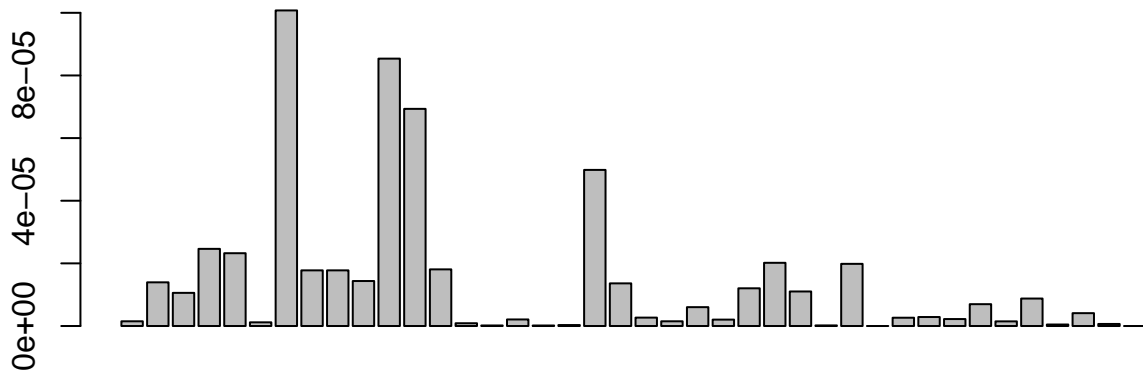
# Starbucks (SBUX)

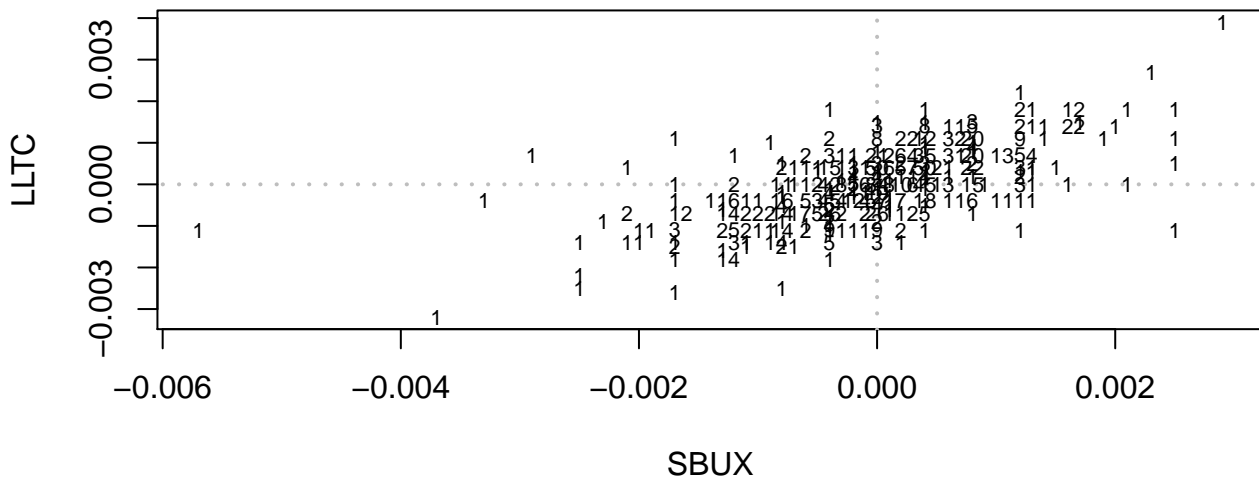
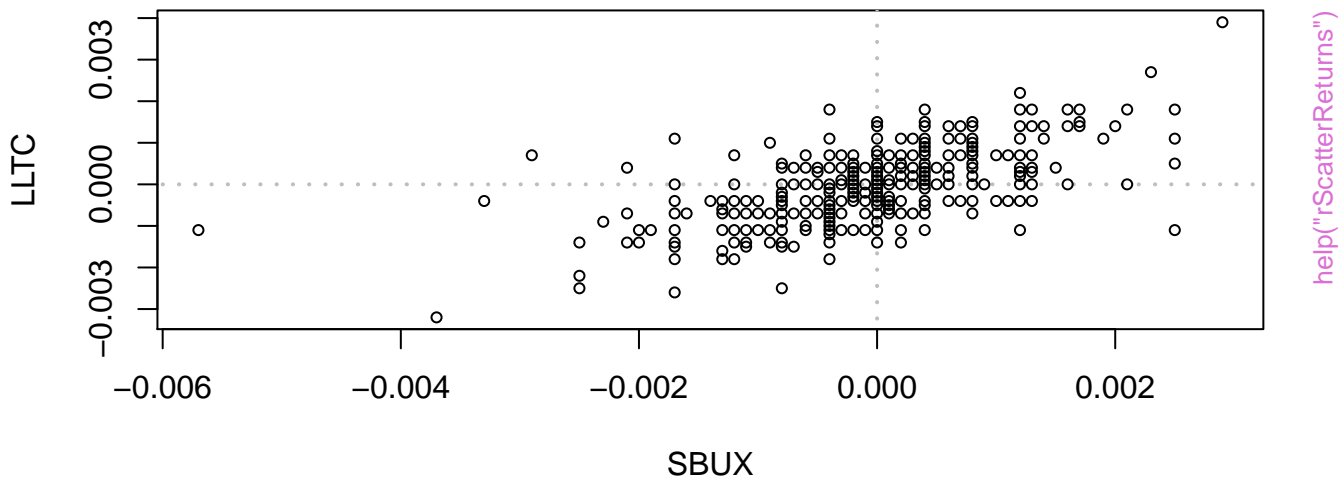


## Starbucks (SBUX)

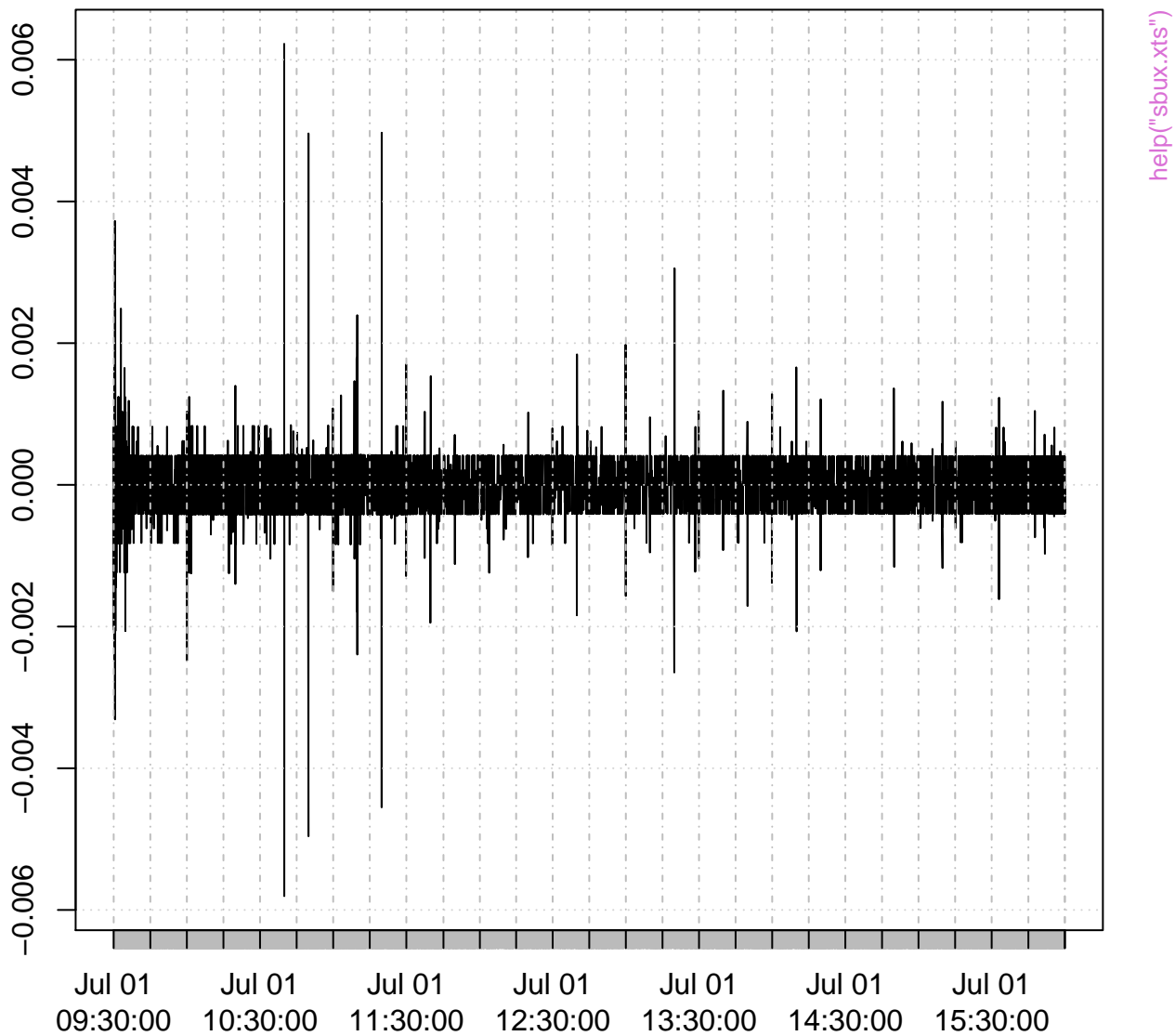


## Marginal Contribution Plot





# sbux.xts



# Non-parametric and parametric periodicity estimates

