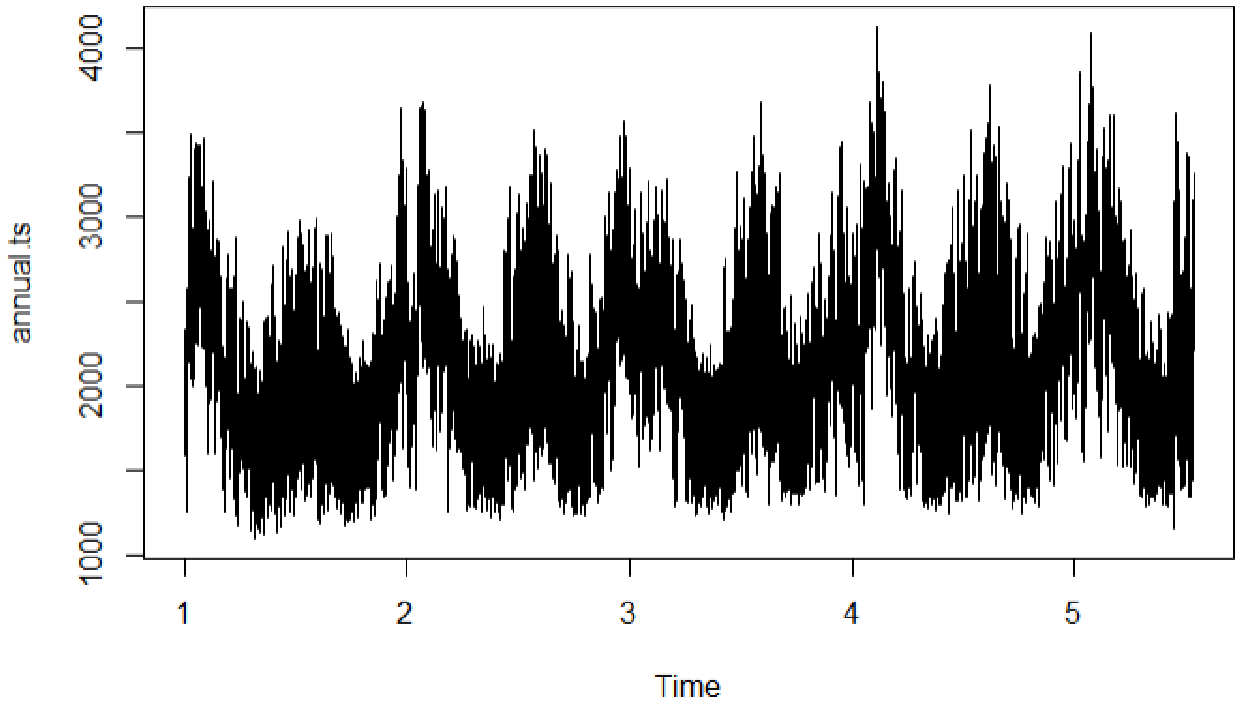
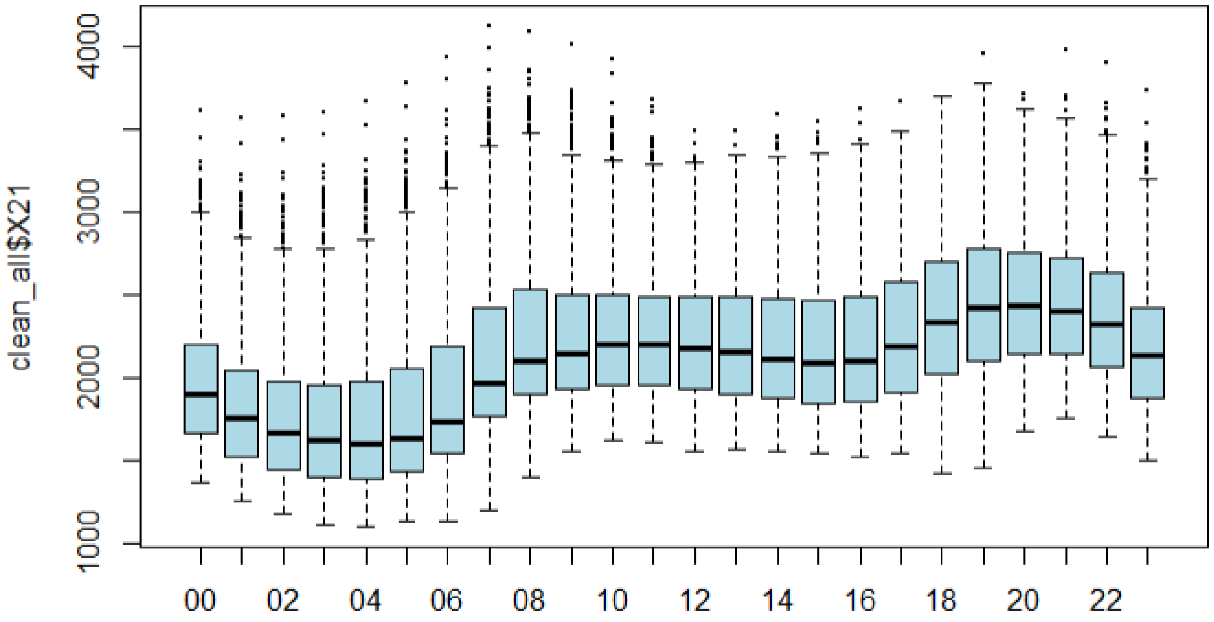
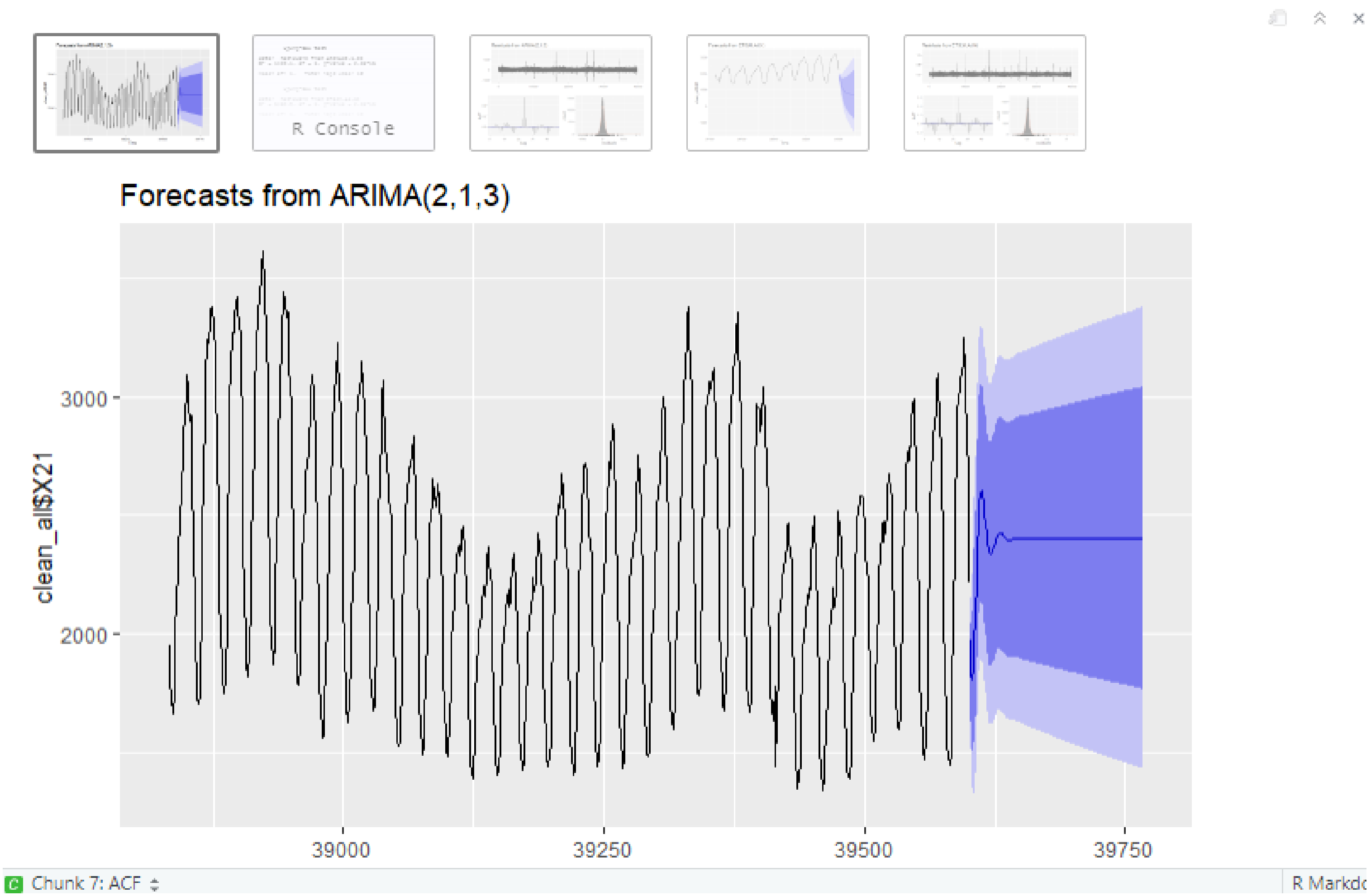
Data visualisation





Brutal forecasting...



ARIMA model works under stationarity hypothesis :

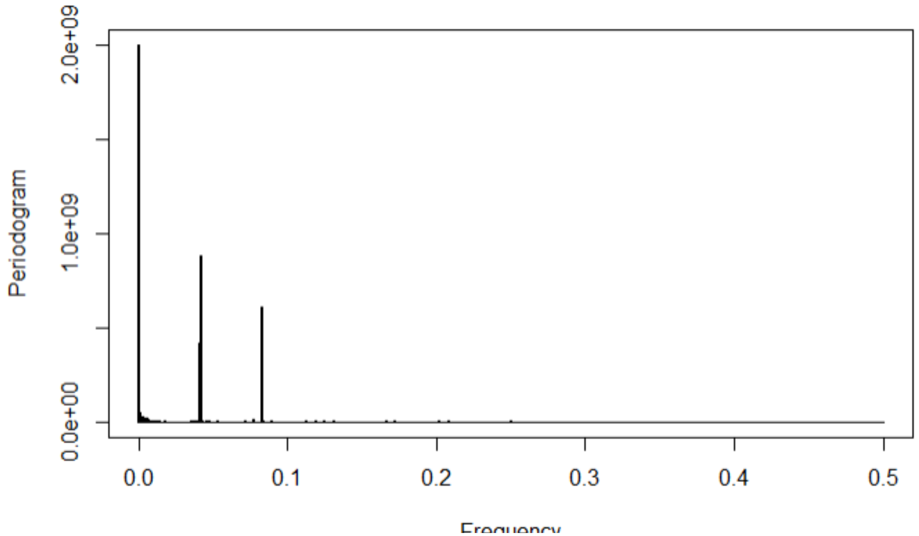
ADF test <- no stationarity

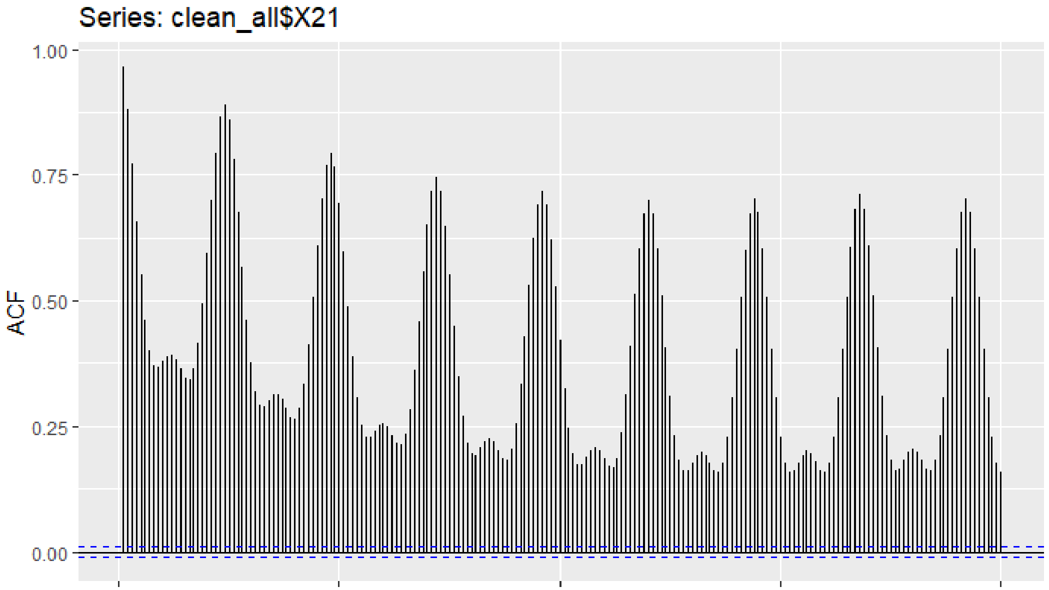
Two solutions :

-make it stationairy

-use seasonal ARIMA

Saisonality and trend ?





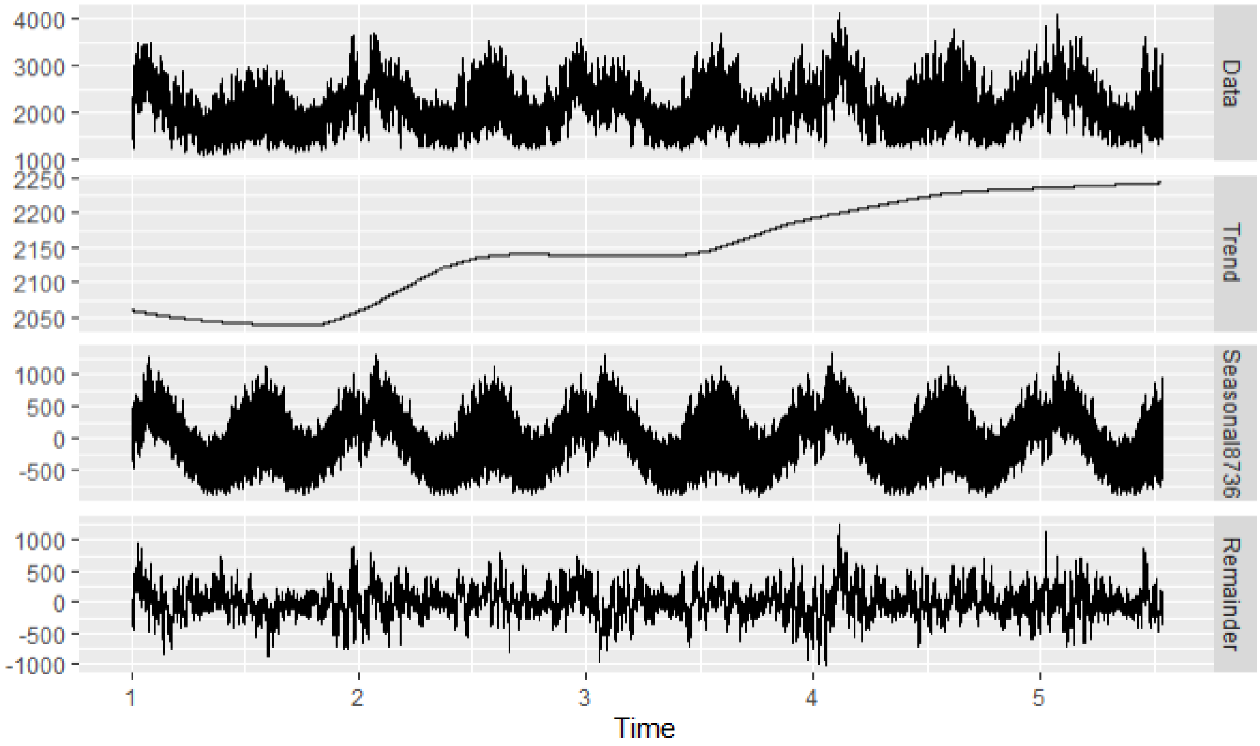
How to interpret :

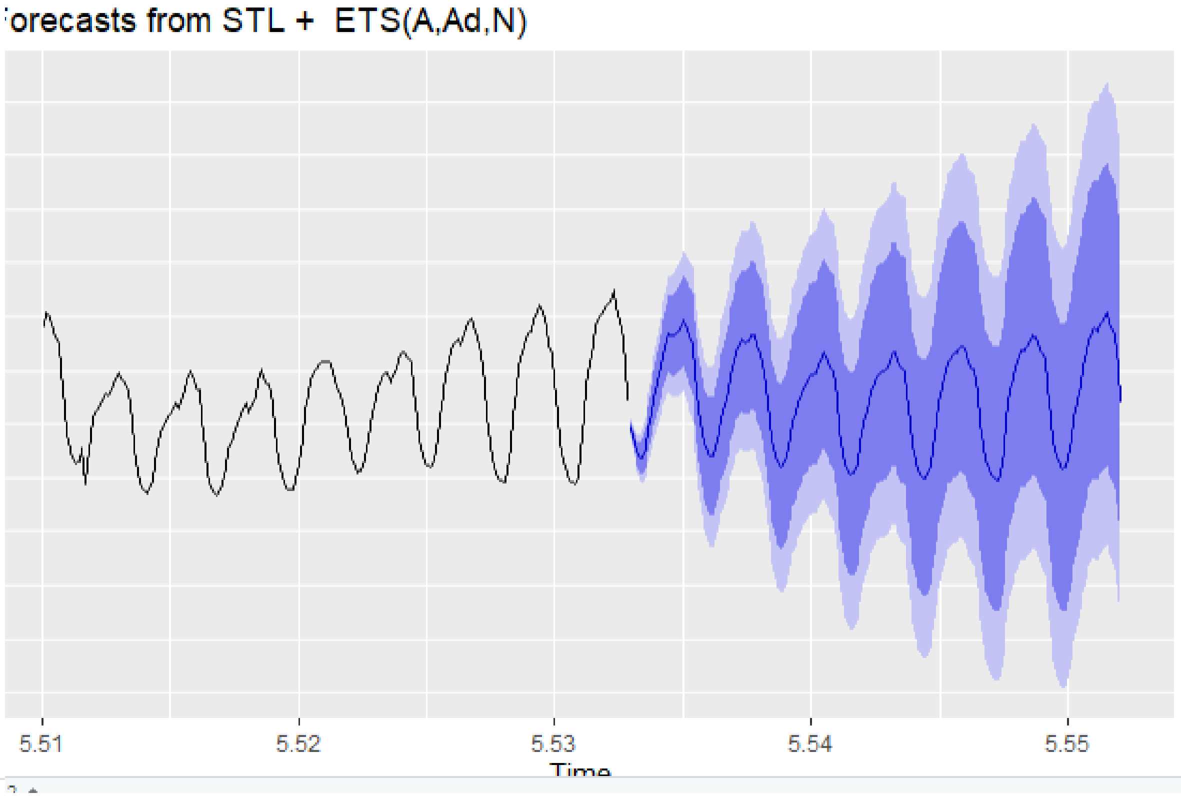
Lag of approximatively 24 days ?

Main saisonality of 185 days (??) one day, one year (periodogram)

=> Need to extract saisonality appart from trend (slow decay of the ACF)

Using mstl()





Much better results but :

- -How to improve it ? (seasonal cycles are chosen automatically)
- -Does it give good results with other zones ?
- -Handle temperature information ?
- -Sensibility to missing data ?