

## Optimisation of acquisition and record time steps in sewer system

Lepot M., Wadoux A., Clemens F.H.L.R., Heuvelink G.B.M.

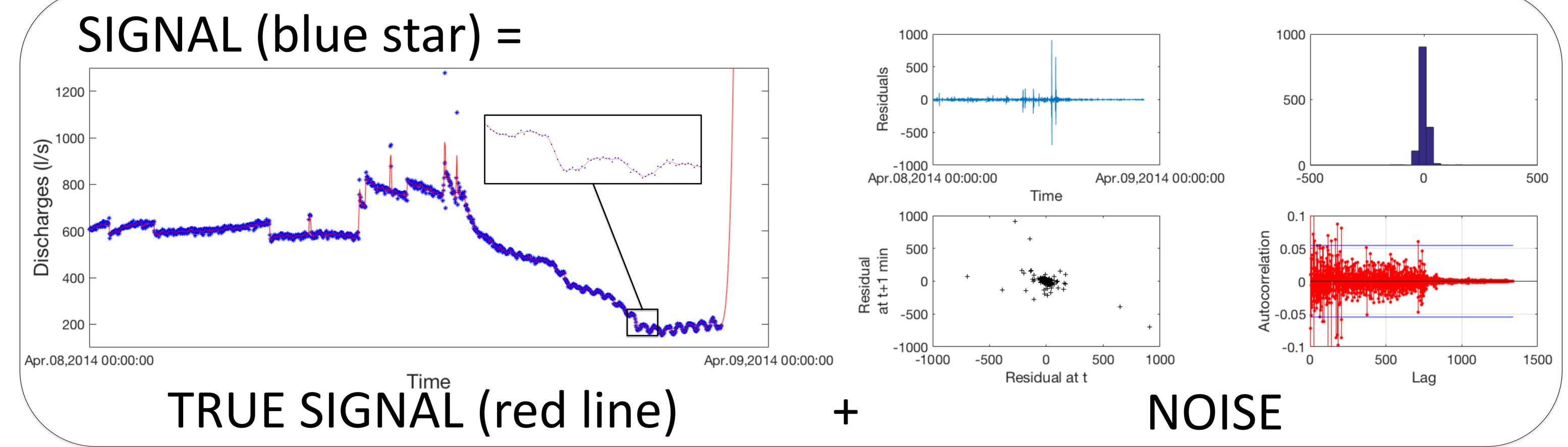
## Goal

Optimise the trade-off between the amount of data (time series) and the uncertainty on cumulated values (daily or event volumes, pollutant fluxes)

Test different strategies to propose new guidelines

What is the best data acquisition strategy for my future time series?





## Strategies

Acquisition at fixed time step

Is the shortest the best?



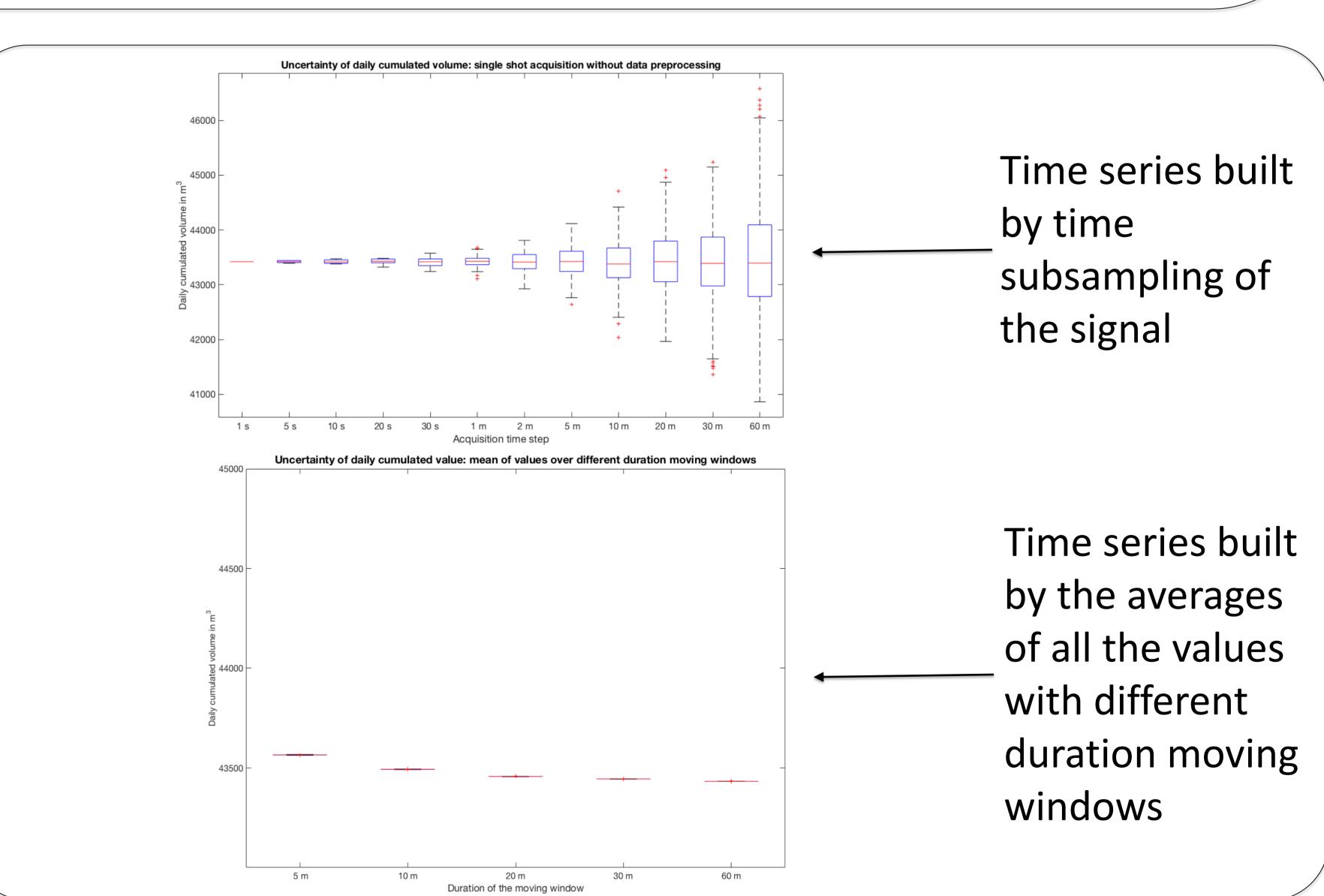
Record at fixed time step?

Data compression?
Outliers?





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## Preliminary results

- Basic time subsampling leads to high uncertainty and underestimation of the cumulated values
- Basic data processing allows the reduction of data set sizes while keeping accurate cumulted values





WAGENINGEN UR

For quality of life