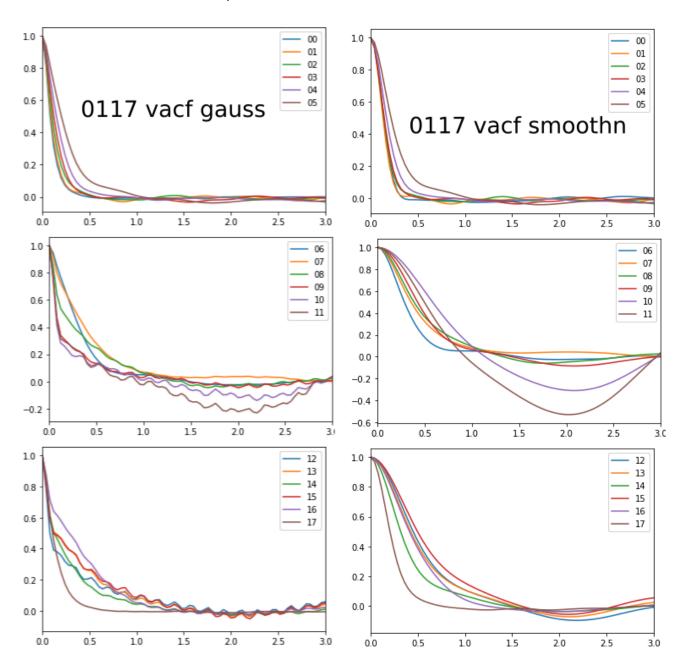
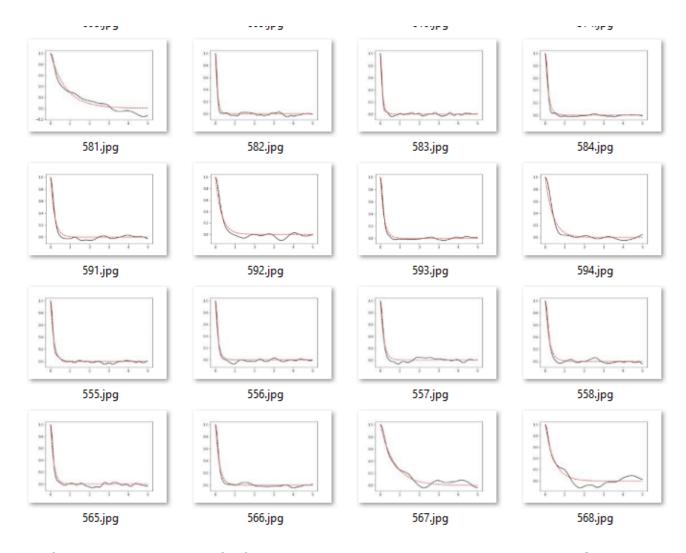


Correlation time analysis using smoothn

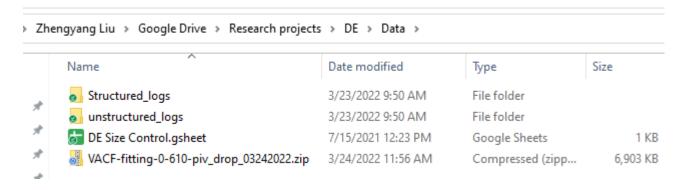
Using smoothn, most noisy VACF curves can be smoothed adaptively. The 01172022 data are shown below as an example.



The curves are fitted with exponential decay to obtain the correlation time τ .



The fitting curves are saved for future quality check in a .zip archived stored on Google Drive.



We hypothesized that the correlation time is correlated with the bacterial activity. Below I plot correlation time against mean velocity to visualize this correlation.

