

This is the data underlying the publication "Fine sediment in mixed sand-silt environments impact bedform geometry by altering sediment mobility".

Sjoukje I. de Lange¹, Iris Niesten¹, Sanne H.J. van de Veen¹, Jasper Lammers¹, Kryss Waldschläger¹, Jaco H. Baas², David Boelee¹, and Ton J.H. Hoitink¹

¹Wageningen University, Department of Environmental Sciences, Hydrology and Quantitative Water Management,
Wageningen, the Netherlands

²School of Ocean Sciences, Bangor University, Menai Bridge, United Kingdom

Correspondence: Sjoukje de Lange (sjoukje.delange@wur.nl)

Contents:

- LineLaser
 - .dat files: raw data files from the line laser scanner
 - The hillshade and interpolated figures of the data (made via QGIS) are shown in the pdf documents.
- MasterSizer
 - Grain size distribution of the medium sand, fine sand, coarse silt and fine silt.
- Ubertone
 - Raw ubertone data, subdivided in three sets (fine sand, coarse silt, fine silt, respectively). Folders with _1 are collected during the first 30 minutes of the run, while folders with _2 are collected during the last 30 minutes of the run. Each folder contains multiple csv files, which can best be read with the accompanying matlab script.
- Scripts
 - Read_data_linelaser.m: script to convert the raw line laser scanner data to an x,y,z file.
 - UBT_bedshearstress: script to read the ubertone data, and process it to obtain hydraulic roughness via the Law of the Wall. The script calls the two functions f_read_UBT_2C.m and f_read_UBT_4C.m, which convert the raw ubertone data.