Data presented in the paper " A Novel Instrument for Bed Dynamics Observation Supports Machine Learning Applications in Mangrove Biogeomorphic Processes "

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Description of the dataset: This data set was prepared to verify the good agreement between innovative LSED-sensor and accurate ground-truth measurement method, i.e. Sediment Erosion Bar and reveal the main drivers of the accumulative bed-level changes through machine learning method. Hydrodynamic and bed-level change data were monitored daily for 21 days in a mangrove wetland. Notably, the bed-level change data were provided by LSED-sensors. The data sets presented here includes the bed-level data, wave data, water depths and current velocity.

Keywords: LSED-sensor, accumulative bed-level changes, wave data, current velocity, bed shear stress, machine learning

Temporal and spatial coverage of the data can be found in the paper.