FAIR Data Science

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1 Experiment overview

The research question lays in a field of Civil Engineering, precisely in a Hydraulic Processes of Coastal Soft Engineering Solutions.

Data collections allows the researcher to analyze the impact of Managed Realignement on a study side located at Selsey Bill in Chichester, West Sussex, England.

This project look at set of data collected by specific apparatus at the mentioned site, of which the depth od water is measured and stored and then transferred to University of Brighton researach unit. The details of data collection can be found in Input Data Folder under Medmerry sub-folder.

Second set of data that is used is obtained from Coastal Channel Observatory Website which is an open access collection of coastal monitoring data. For the purpose of analysis, the tide gaude data was obtained in a period of years 2014-2019.

As a result, the output data contains of processing of datasets mentioned above, in general data was splitted into periods of interest, then accordingly verified and discussed. Main focuses are hydroperiod, tidal conditions and tidal curves change through the years. The resulting graphs helps to understand the impact of events such storms on the study site and to preding the response in the future.