

Interactive comment on “Measurements of Hydrodynamics, Sediment, Morphology and Benthos on Ameland Ebb-Tidal Delta and Lower Shoreface” by Bram C. van Prooijen et al.

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Dear Dr. Fleischer

Thank you for reviewing the paper. We replied to each comment/suggestion, see text below.

Best regards,

Bram

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Dear Authors, your manuscript describes a valuable dataset of sediment dynamics in the Netherland part of the Wadden Sea. The Data have been made available by the data repository of the TU Delft by CC-by licence. The repository is well chosen and the functionality provided to the user for accessing the data is very nice. This supports the mission of ESSD to make data reusable for future and extending research. Unfortunately, during checking the data in the repository a number of errors using the web frontend occurred and in the data file a number of "NaN" values occurred, which has not been mentioned in the manuscript and was unexpected. Actually some files just contained "NaN" which is absolutely unacceptable for ESSD, as a data publication. If "NaN" occur this should be documented in the manuscript and only files should be included in the publication that actually contain reusable data. Please improve your data set description there is a AZG campaign mentioned, but the names of data files to mention other campaign acronyms. For future data users this is highly irritating and the manuscript is supposed to overcome these irritations to foster scientific progress.

Some of the datasets indeed included only NaNs. This error was due to the inconsistent use of delimiters (i.e. “,” vs “;”) in the output files for certain instruments, and was corrected in our post-processing. The corrected files have been uploaded to the repository. In addition to AZG, also the other acronyms have been indicated. This is for example done in the new table 2.

The abstract already should include information on the time periods and usability of the data.

The abstract now includes the years in which the measurements took place. *“The data has been obtained over the years 2017-2018. The most intensive campaign at the ETD of Ameland Inlet was in September 2017.”*

Extra sentences are added to explain how the data has been stored: *“The data sets are published in netCDF format and follow conventions for CF (Climate and Forecast) metadata. The data.4tu.nl site provides keyword searching options and maps with the*

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geographical position of the data.”

Furthermore, it has been extended with a brief description of where the data set can be used for: “*The data provides opportunities to calibrate numerical models to a high level of detail. Furthermore, the data sets can be used for system comparison studies.*”

It would be good to have a table with data file descriptions, coverage and may be corresponding data files details within the manuscript.

Table 2 was added, indicating the periods and locations of the frames. As the data contains such a diverse amount of data, we could not make a single table to indicate the file descriptions and coverage. The data is stored within the data.4tu.nl site. This site contains many search options and (interactive) maps. We trust that these options are sufficient to find the data.

A minor comment: if available the impressive number physical samples should make use of persistent identifiers such as International Geo Sample Number (IGSN), but this only as a comment.

Our research group has a larger dataset of sediment samples for the Dutch Wadden Sea beyond just those presented in this paper and stored online here. IGSNs will be assigned to the dataset as a whole in the near future. In this way we hope to make our sediment sample catalogue more consistently organized across multiple field campaigns, both past and future.

Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2020-13>, 2020.