



## Comment on **essd-2021-47**

Anonymous Referee #1

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Referee comment on "An integrated marine data collection for the German Bight – Part 1: Subaqueous geomorphology and surface sedimentology (1996–2016)" by Julian Sievers et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2021-47-RC1>, 2021

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General Comments:

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The presented paper (part one of two publications) introduces an integrated data collection created in the German project EasyGSH-DB, which includes geomorphological and surface sedimentological products for the German North Sea coast and German Bight. The information provided through the resolution of this datasets is very important for this region, contributing in many ways as, for example, to the implementation of various numerical models.

In the introduction, the authors state bathymetric regular 50 m gridded digital terrain models (DTMs) were provided from 1982 to 2012 for the inner German Bight. However, the presented work concerns the bathymetric terrain models spanning 1996 to 2016 as a 10 m regular grid. It should be explained why the authors did not consider the data spanning 1982 to 1996. This should be clarified since this would clearly enrich the numerical modelling results of the second publication, for example.

When considering approximation, interpolation, or extrapolation methods as, for example, for the surface sedimentological data sets, different confidence levels are to be expected. What is the expected accuracy for the given products? This should be clarified by the authors.

The paper is generally clearly and cogently written. This article should be interesting to the readership of ESSD. This reviewer recommends the article to be published with

consideration given to the listed comments.

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Technical corrections:

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Line 99: 'data set hat metadata attached'. Please, verify the writing.

Figure 8b: the units given the morphological drive units (MD) appear to be 'm a-1'. Please, check it.

Line 277: 'were used in its creation' not 'where used in its creation'