

## ***Interactive comment on “Bathymetric Properties of the Baltic Sea” by Martin Jakobsson et al.***

**Martin Jakobsson et al.**

[martin.jakobsson@geo.su.se](mailto:martin.jakobsson@geo.su.se)

Received and published: 6 June 2019

Reviewer #1 raises a set of comments with references to specific pages and lines in the manuscript, each comment is here dealt with: 1) Page 4, line 15: Reviewer #1 points out that text here gives the impression of that the EMODnet DBM was largely based on the same data as BSDB, despite that several major updates were made. We propose to revise the key sentence and add a sentence to reflect that EMODnet does indeed provide an update compared to BSDB. It will read: "The newly released EMODnet DBM is to some extent based on the same bathymetric source data as the BSDB, although new data have been added, specifically in the waters of Poland and Latvia. Furthermore, the input data in Swedish waters were filtered to 300x300 m to meet the nation's legal restrictions, however this provides a more detailed view than the 500x500 m BSDB. All bathymetric source data were compiled on a grid with spherical coordinates at the higher resolution of 1/16x1/16 arc minutes (approximately 115x115

C1

m)."

2) Page 8, line 18: We wrote "there are no maximum depths provided or, more precisely, those provided are the same as the mean" without further explaining the background for this. We agree with the reviewer that this should be commented on, so we propose to add: "This is an effect of the sparse input data and the down sampling to 300x300 m in Swedish waters where modern multibeam bathymetry exist".

3) We agree with Reviewer #1 that it is important to highlight early that the issues of not providing a standard deviation of the depth is specifically restricted to the Baltic mainly due to the legal restrictions of bathymetric data in Sweden and Finland. We will therefore add in Section 2.1.

"It should be noted that this problem is rather restricted to the Baltic Sea, mainly because other areas of EMODnet do not face the same legal restrictions regarding bathymetric information, specifically an issue in Sweden and Finland, implying that more information have been provided to EMODnet."

---

Interactive comment on Ocean Sci. Discuss., <https://doi.org/10.5194/os-2019-18>, 2019.

C2