

Interactive comment on “GLODAPv2.2019 – an update of GLODAPv2” by Are Olsen et al.

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Dear Professor Gruber

We would like to thank you for spending some of your time on reviewing our manuscript, for your encouragement, and suggestions for improvements.

As regards your two minor comments:

"p10, lines 386-390: Overwriting other CO₂ system variables. I recommend to reconsider this choice for the next iteration of GLODAPv2. I prefer that you keep the actually measured values and add a new column with the overwritten values."

For the calculated values. We have been considering this a bit. We agree that better enabling comparisons between measured and calculated values is worthwhile and will increase transparency. On the other hand, the product file is a reference dataset based

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on expert opinion presenting data that the team believes are of optimal quality and the number of 'user-options' should be kept at a minimum. Our strategy will therefore be to prepare a separate file with calculated and measured values for the CO₂ system variables, that can be consulted by interested users.

"Figure 1: I suggest to add some information about the timing of the cruises, and the number of observations with regard to depth, season, etc."

This is a good suggestion, we have chosen to include this information in Section 5. Summary, by including figures showing the distribution of data by month and depth.

All the best

Are Olsen and co-authors.

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