

Interactive comment on “OceanSODA-ETHZ: A global gridded data set of the surface ocean carbonate system for seasonal to decadal studies of ocean acidification” by Luke Gregor and Nicolas Gruber

Luke Gregor and Nicolas Gruber

luke.gregor@usys.ethz.ch

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We thank reviewer 1 for their prompt and positive feedback. Their review was detailed and was a great help in preparing the revised manuscript. Below, we outline how we will address the major points raised : 1) recommendation on how modelers should use the data set; 2) discussion of coastal estimates , particularly considering the new merged Landschützer et al. (2020) product; 3) missing appendix. We included below the reviewer’s comments in blue and our responses in black. Italic green font indicates text that will be added to the manuscript. The location of the text in the manuscript is

C1

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indicated if applicable. The line specific grammar issues will be addressed and shown in the track-changed document. Note that we have also refined our definition of error and uncertainties. These changes have also been marked in the tack changes file (to be shared at a later stage).

Note that we have attached our AC as a supplement.

Please also note the supplement to this comment:

<https://essd.copernicus.org/preprints/essd-2020-300/essd-2020-300-AC1-supplement.pdf>

Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2020-300, 2020>.

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