

**To: Editor-in-Chief**

Earth System Science Data (ESSD) Copernicus Publications

**Dear Editor,**

We are pleased to submit our second revised manuscript entitled: “Two Centuries of Oceanographic Data in the Indonesian Seas and Surroundings: Historical Patterns of Data Availability, Gaps, and Future Challenges” for consideration for publication in *Earth System Science Data (ESSD)*.

We thank the reviewers for their positive evaluation of our work and constructive feedback. Please check below the cover letter for our response. In general, we agree with the reviewer comments and have revised based on their inputs.

Thank you for considering our manuscript for publication. We look forward to your response.

Sincerely,

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## Comments and Inputs

Line 26 add « in this region » extensive observations and surveys, particularly in situ measurements, have been conducted « in this region » over the past two centuries

Thank you for your comment. We have added the mentioned phrases.

Line 28 : « the findings indicate » is not really appropriate , replace by 'the results show » (I am not found of findings).

Thank you for your suggestion. We have replaced the mentioned phrase.

Line 29 : beginning from the mid-20th replace « from » by « in »

Thank you for your suggestion. The mentioned word

Line 40 replace « are freely available from the Mendeley » by « are freely available on Mendeley »

Thank you for your suggestion. The phrase has been changed

Figure and corresponding text : could you define « density » ? I understood the figure, but not the Y scale (density), I suspect the unit is missing (% / number ?). Please clarify and add the appropriate unit to the Y-axis.

We greatly appreciated the reviewer's observation. We noticed that in the figure 6 [Line 390], the term 'density' gives an ambiguous meaning. Therefore, we have replaced the term 'density' into 'the observed data distribution' for clearer interpretation. We have added the appropriate unit to the Y-axis as well