

Dear Dr. Simoncelli, Dr. Guerra, and Anonymous Reviewer #1 (AR1):

We sincerely thank the two reviewers for their time in reviewing this manuscript, and particularly Dr. Roberta Guerra for her very thorough review. We also thank Dr. Simona Simoncelli for her helpful input on the structure and scope of the paper prior to the manuscript's review. We have added acknowledgments accordingly to the acknowledgments section.

Responses to detailed comments are below:

Comment (Guerra): Erratum in line 281. For "WOCE water sample quality flag definitions listed in the footnotes to Table 1" read "WOCE water sample quality flag definitions listed in the footnotes to Table 2".

Response: Thank you for catching this! We have corrected it.

Comment (AR1): please, check 'Ćhá?ba' throughout the MS text, supplementary material and tables.

Response: We have done so and verified correct spelling (Ćhá?ba-) throughout. We added a few words to line 107 to indicate that this is a Quileute language word to allay further confusion (see here for details: <https://www.pmel.noaa.gov/co2/story/La+Push>).

In addition to the above changes, we added a column of panels to Figure 3 and amended the caption accordingly. The reason for this change was to illuminate the data distributions by depth as referred to in the text. Figure reference numbers were adjusted in the text as needed.

Finally, we also gave the manuscript a final read-through and corrected several minor errors or wording in places that were not consistent with other instances in the text (e.g., variable names in lines 384–387).

Best regards,  
Simone Alin and co-authors