

Interactive comment on “CARINA data synthesis project: pH data scale unification and cruise adjustments” by A. Velo et al.

A. Velo et al.

avelo@iim.csic.es

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We would like to thank the referee for the time and effort that he has put into the evaluation of our manuscript. We think that this revised version has been improved as a consequence of the new inputs.

We have made those changes to the manuscript and discussed in detail for each of the comments about the main concerns he had been pointed out.

- References: Reference of Buck et al. (2002) Pure Applied Chem. is a recompilation of different pH aspects and agreements based uniquely on the definition of the pH in the NBS scale. The definition and the relevance of the pH on the NBS scale is already explicitly defined in the manuscript, therefore the authors think that the inclusion

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of the paper of Buck et al., do not constitute any special improvement on the actual manuscript.

- Surface Ocean pH: Changed to 8.1 according to Royal Society, 2005 and GLODAP. pH scale also indicated in the text (SWS at 25°C)

- Some more citation have been introduced thorough the text. The ones relative to other synthesis efforts like GEOSECS or to GLODAP and more description about them, are included in the introduction paper (Key et. al.) and the Methods paper (Toste et. al.) of this issue. This report has tried to be more specific with pH, avoiding excessive repetition.

Interactive comment on Earth Syst. Sci. Data Discuss., 2, 421, 2009.

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