

## ***Interactive comment on “Projected pH reductions by 2100 might put deep North Atlantic biodiversity at risk” by M. Gehlen et al.***

**M. Gehlen et al.**

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The article “Projected pH reductions by 2100 might put deep North Atlantic biodiversity at risk.”, by Gehlen et al., tries to evaluate the potential impacts of ocean acidification on deep-sea ecosystems by modeling the effects of the IPCC AR5 Representative Concentration Pathways on an ensemble of seven Earth system models. The work is compelling and original, and the issue addressed of the utmost importance for fellow scientists and policymakers alike. The article itself is competently written, clear and based on good bibliographic support. The work should be accepted for publication,

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with only the minor changes listed below.

We thank the reviewer for the positive evaluation of our study. We corrected typos and edited the text for clarity during revisions following their recommendations. We modified Figure 5.

195- Where it reads “Atlantic Meridioanl Overturning” it should read “Atlantic Meridional Overturning” Done

240- The phrase “Projected pH reductionsTime-series of atmospheric. . .” should be corrected. Done

263- The phrase “. . .that is transfer of. . .” should be edited for clarity. Figure 5 - The symbols used are too similar at that size, and the use of the same color is visually confusing when they overlap. A change in either or both is suggested. Done

617- The explanation regarding the different hue of the circles should also be applied to the diamonds. Done

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