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

### **Anonymous Referee #2**

Received and published: 10 September 2014

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, with only the minor changes listed below.

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

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

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corrected.

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.

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

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Interactive comment on Biogeosciences Discuss., 11, 8607, 2014.

**BGD**

11, C5040–C5041, 2014

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