

# ***Interactive comment on “Stable carbon isotopes of dissolved inorganic carbon for a zonal transect across the subpolar North Atlantic Ocean in summer 2014” by Matthew P. Humphreys et al.***

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We thank the reviewer for reading our manuscript and providing their useful thoughts and feedback. We hope that we have addressed the points raised as follows.

We were not able to find examples of other studies using seawater reference material (RM) obtained from Andrew G. Dickson (Scripps Institution of Oceanography, USA) for  $\delta^{13}\text{CDIC}$  measurements, as we have. These RM are indeed sterilised, as we have noted in section 5.3.3.

We have provided a high-resolution image for Fig. 2 so this figure should be at a visible size in the final manuscript.

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The reviewer is correct to summarise that the cross-over analysis did not find any evidence of an offset between our dataset and others from the historical compilation that were nearby, to within the accuracy of the compilation. Although the compilation that we used was the best available at the time of our analysis, it may soon be superseded by other efforts, and we have added a note to this effect to the manuscript.

We have clarified what we mean by 'generous' in the context of our previous study's uncertainty.

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[Interactive comment on Earth Syst. Sci. Data Discuss.](#), doi:10.5194/essd-2015-36, 2016.

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