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Interactive comment on "Ocean acidification accelerates dissolution of experimental coral reef communities" *by* S. Comeau et al.

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I read this manuscript with great interest. It was nice to see an even treatment of the sediments along with the coral community.

I have a few comments I hope you find useful.

If you have dissolved oxygen data it would be good to know if benthic productivity and respiration changed in the high pCO2 treatment. This would give some insight into the processes driving sediment dissolution. Was it due to a change in the sediment p/r (metabolic dissolution) or was it due to the reduced saturation state in the overlying water (environmental dissolution).

Was there any surface structure in the sediments in the flume (e.g. ripples) that would

drive advective flow?

Can you provide more details on the sediments such as grain size, porosity, permeability, organic matter content, carbonate mineralogy etc.

Regards

Bradley Eyre 29-08-2014

Interactive comment on Biogeosciences Discuss., 11, 12323, 2014.