Biogeosciences Discuss., 11, C6330–C6331, 2014
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Biogeosciences Discussions
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# *Interactive comment on* "Ocean acidification accelerates dissolution of experimental coral reef communities" *by* S. Comeau et al.

**S. Comeau et al.**

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Received and published: 31 October 2014

Response to A. Ridgwell comments:

We thank A. Ridgwell for his useful comments.

Comment 1: "What was the mean carbonate saturation of the water in the two treatments? (Or did I derp completely on reading your paper and miss it?) Actually, it would be help- ful/interesting to know all of the carbonate chemistry parameters."

Response 1: The aragonite saturation state was ∼3.5 in the ambient treatment and ∼ 1.6 in the high pCO2 treatment. As suggested a table (Table 1) showing the carbonate chemistry is now included in the revised manuscript.



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Comment 2: "Also – do you have any sense for whether the ambient carbonate chemistry of the corals/algae 'downstream' in the flume, was more buffered compared to individuals growing upstream? Or is the flow sufficiently fast that the chemistry is effectively uni- form along the length of the flume?"

Response 2: We did not measure any significant change ($\sim$ > 0.01 pH unit) in pH between upstream and downstream. It was likely due to the relatively fast flow and the limited length of the working section (5 m).

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