

## ***Interactive comment on “Significant long-term increase of fossil fuel CO<sub>2</sub> uptake from reduced marine calcification” by A. Ridgwell et al.***

**A. Ridgwell et al.**

Received and published: 23 June 2007

The Referee helpfully lists a number of specific comments and suggestions, which we have addressed as follows:

- > Abstract: Removed the word “available” as requested.
- > Page 1766, line 13-16: We have re-written this section to make our alternative (ensemble) approach to a single prediction clearer.
- > Page 1768, line 19: The ‘fit’ is only for illustration. We have not found a simple function that would provide a better fit while constrained to go through the origin and do not believe that use of a highly complicated relationship for only a relatively small improvement in fit would be helpful. We have made this more explicit in the Figure caption.

- > Page 1769, line 13: We have re-written the statement in question to avoid it being misleading, although this was addressed in the very next paragraph in the original manuscript.
- > Page 1769, line 17: Caveat regarding differences in experimental protocol added.
- > Figure 1 (now #3): The arrows were only for illustration - the values are in fact those plotted in Figure 4. We have clarified this in the text. In fact, all the figures are reproduced rather too small considering their complexity and content. The submitted versions were considerably larger, so we can also address these issues in the production step by ensuring adequate figure sizes.
- > Figure 2 (now #4)/Table 1: We have resolved the discrepancy between Figure 4 and Table 1 pointed out by the reviewer (simply due to a mistake in the labeling of the bars in the Figure).
- > Figure 2 (now #4): We have clarified the definition of the strength of the CO<sub>2</sub>-calcification feedback.

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Interactive comment on Biogeosciences Discuss., 3, 1763, 2006.

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