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Interactive comment on “From laboratory manipulations to earth system models: predicting pelagic calcification and its consequences” by A. Ridgwell et al.

A. Ridgwell et al.

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* With regards to the Referee’s main point about our hypothetical proposition of an ‘Eppley’ curve’ for calcification – see answer to overarching points.

* Specific points:

> We have removed Figure 3 and adjusted Figure 4 (now #3) to soften the comparison between temperature and carbonate chemistry plankton response.

> We have explicitly addressed the question of whether a ‘lethal’ carbonate chemistry limit does or can exist (in addition to extensive new discussion – see overarching points

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above).

> Rather than add the curve equation to the Figure 3, we have directed the reader to the equation in the text (and hence text and discussion) because of the potential confusion between units of doublings per day, and per day (see reply to Referee 1). We have clarified in the caption that there are the (temperature) responses of non calcifying plankton species in the Figure.

Interactive comment on Biogeosciences Discuss., 6, 3455, 2009.

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6, C2316–C2317, 2009

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