

Interactive comment on “Significant long-term increase of fossil fuel CO₂ uptake from reduced marine calcification” by A. Ridgwell et al.

A. Ridgwell et al.

Received and published: 23 June 2007

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

- > Page 1765, line 12: We have expanded on the description and added additional equations for completeness as requested.
- > Page 1766, 1st par: We have re-written the description of the fitting procedure.
- > Page 1766, line 9: “At values $0 < n < 1$ as given in the table the smallest value gives the strongest sensitivity near OHMEGA=1.” We have not addressed this because the referee’s point is completely unclear.
- > Page 1766, line 17: We have expanded on the reference to the EnKF method and added the reference suggested.

- > Page 1767, line 5: We have made available the parameter values of all 54 ensemble members as electronic information. We have also clarified which parameters are calibrated and added a new table (#2) to summarize these.
- > Page 1767, line 22: The omission of sediment interaction has been clarified.
- > Page 1768, line 15: Organic carbon export value has now been quoted and some discussion of this added.
- > Page 1769, line 9: Wording altered as requested.
- > Page 1771, line 11: We have added some additional discussion regarding the feedback implications of bulk POC production vs. ecosystem composition (potentially affecting POC penetration).

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

BGD

3, S1076–S1077, 2007

Interactive
Comment

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper