

Interactive comment on “Carbon export and transfer to depth across the Southern Ocean Great Calcite Belt” by S. Z. Rosengard et al.

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Received and published: 21 May 2015

We thank referee #1 for a close reading of this manuscript and suggestions for improvement. In the attached .pdf-file/"supplement", we explain how we have addressed the reviewer's comments (comments in blue, responses in black). We refer to actual changes in the text using the original page/line numbers in the downloadable pdf-file on the interactive discussion webpage. We summarize additional information from several new figures added to the manuscript supplement: one set of figures showing $>51 \mu\text{m}$ POC:234Th, PIC:234Th and BSi:234Th profiles at all stations (Fig. S1), and three figures synthesizing phytoplankton cell count data from co-author Barney Balch (Figs., 2, 3 and 4). The changes in manuscript are appended after these responses.

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Please also note the supplement to this comment:

<http://www.biogeosciences-discuss.net/12/C2351/2015/bgd-12-C2351-2015-supplement.pdf>

Interactive comment on Biogeosciences Discuss., 12, 2843, 2015.

C2352