

Interactive comment on “Anthropogenic carbon in the eastern South Pacific Ocean” by L. Azouzi et al.

Anonymous Referee #2

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Review on Anthropogenic carbon in the eastern South Pacific Ocean by Azouzi et al.,

General comments

This paper deals with the estimation of anthropogenic carbon using the TroCA approach developed by some of the authors and discussed on how the distribution of anthropogenic carbon is influenced by the physical processes and compared with earlier methods. This work is interest of Biogeosciences and deserves publication.

Specific comments:

1. This paper contains no constructive aims and ends up with no conclusions and do not understand what authors want to say out of their study!.

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2. Authors showed tight correlation with AOU however no description was given with reference to processes related to this correlation

3. The discussion on comparison estimation of anthropogenic carbon between TroCA and other methods was very poor. I think this is important in order to understand how TroCA model is better than earlier models. The Figures 5 and 6 suggests that there are significant differences especially in the upper layers (<500 m; However it is hard to read the figures! The font size of the contour labeling should be enhanced). This difference seems to be much larger in the section 2 (Figure 6). It will be interesting to discuss, what are the potential reasons for such differences?

Interactive comment on Biogeosciences Discuss., 4, 1815, 2007.

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