

## ***Interactive comment on “Temporal variability of the anthropogenic CO<sub>2</sub> storage in the Irminger Sea” by F. F. Pérez et al.***

**F. Joos (Editor)**

joos@climate.unibe.ch

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Dear colleagues,

Based on the referee s comments and my own reading I find your MS potentially very well suited for publication in Biogeosciences. However, the reviewers have a number of helpful comments that you need to address before any further editorial decision can be made. I ask you to consider each comment carefully. Please number the comments and provide a response to each comment.

Referee 3 finds that the paper is clearly written and concise. His suggestions to add an additional figure and to expand discussion on the implications for the North Atlantic Canth sink are worth to take into account. With respect to the consequences of a THC

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shut down you may consider studies that quantify the impact on atmospheric CO<sub>2</sub> in coupled atmosphere-ocean models such as those published by Maier Reimer or our group here in Bern. Both referees suggest that you provide a bit more detail on your Canth reconstruction method.

Referee 2 raises the issue of bottle versus CTD data and suggests that the missing DSOW signal in 1997 is an artifact of using bottle data. Please consider this issue carefully. You should also address whether including the additional data from the Meteor cruises mentioned by Referee 2 would change your findings. Please also check very carefully the reference list and reference data source and provide if appropriate web addresses.

I am looking forward to read your reply and a revised manuscript.

Thank you for submitting your work to Biogeosciences.

With best regards,

Fortunat

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Interactive comment on Biogeosciences Discuss., 5, 1587, 2008.

**BGD**

5, S843–S844, 2008

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