

Interactive comment on “Nordic Seas total dissolved inorganic carbon data in CARINA” by A. Olsen

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I would like to thank the reviewer for the comments, these help me to clarify my manuscript. Below I go through the comments one-by-one. The comments are given in italics and my response in normal font.

1) typo: page 192, line 19: coulometric; change to coulometric

Will change to “coulometric”

2) figure 2: the line is misleading; a linear trend of TCO₂ increase over time is hardly supported by the data (and the x-axis is not linear). Use another indicator if you want to emphasis the difference. Also change colors to better distinguish black and dark blue dots.

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I agree and will remove the line from the figure, the possibility of an increasing trend in deepwater TCO₂ is discussed in the text. I will change the blue markers to yellow to better distinguish the data series.

3) In order to get an impression of the relative importance of individual cruises for the data collection, it might be useful to give information of the number of measurements. This will indicate how much the data collection is affected by rejecting data from individual cruises. This is well visible for the retained cruises from the supplement, but the omitted cruises are not shown there. Maybe a column might be added (e.g. number of TCO₂ measurements) in table 1. Also, in table 2, it might be considered to add the number of data points used for the SD calculation in parentheses.

Both is these suggestions are good and will be implemented in the revision.

Interactive comment on Earth Syst. Sci. Data Discuss., 2, 181, 2009.

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