

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

Anonymous Referee #2

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The manuscript describes the quality control for a subset of the CARINA total dissolved inorganic carbon data. Adjustments for some data set and recommendations for rejecting other data sets are given, based on detailed analysis of the data. I consider the manuscript well written and it does fully accomplish the task.

I recommend publication with a few minor modifications:

1) typo: page 192, line 19: coulometric; 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 emphasize the difference. Also change colors to better distinguish black and dark blue dots.

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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.

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

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