

## ***Interactive comment on “Quality control procedures and methods of the CARINA database” by T. Tanhua et al.***

**Anonymous Referee #2**

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The authors reported on the background information on amazing procedures that were used to merge a large amount of data on carbon and carbon relevant hydrochemical parameters in the ocean and to make their rigorously quality-controlled database. For this purpose, the authors developed several sophisticated tools such as computer routines and websites on which extensive interactions among analysts are made. Although we would need exercises in order to fully understand the procedures, I think that this work is an admirable achievement in activities of hydrochemical data synthesis. It will greatly contribute to the basin-wide analyses for the decadal variability in the carbon cycle in the ocean.

Minor comments are :

Page 213, lines 3 and 23; page 214, line 13; page 220, line 21: “performed” => “per-  
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formed”?

Page 217, line 10: “depth and theta-space” => “density and theta-space”?

Page 217, line 6: What does the word “cnaX” mean? Is it an abbreviation of any words?

Page 217, line 6 – page 219, line 18: The process of “cnaX crossover routine” looks quite complex and has options for users. I think that, if the process of “cnaX crossover routine” is illustrated with something like a flowchart, it will be very helpful for readers in understanding how data sets are processed and how users contribute in each step.

Table 2: I wonder why the maximum model error of core cruises is larger than that of non-core cruises for salinity?

Page 225, line 21: “derived the cnaX scripts” => “derived from the cnaX scripts”?

Page 227, line 10: “than can be” => “that can be”?

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Interactive comment on Earth Syst. Sci. Data Discuss., 2, 205, 2009.