

Interactive comment on “Spatiotemporal characterization of dissolved carbon for inland waters in semi-humid/semiarid region, China” by K. S. Song et al.

Anonymous Referee #1

Received and published: 26 June 2013

Dear Authors,

Page 6565 Paragraph 2.2: How many samples and how often were the lakes/water bodies sampled (some info in the tables but not all and not mention in the text and figures)?

How where the samples transported, any cooling device and kept dark, from the field to the laboratory?

How long time between sampling, filtering and analysis?

Where the GF/F filters pre-rinsed with DI-water before filtering the samples?

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What is the precision of the chemical analysis?

The 153 independent samples, independent from what?

Results (and Discussion) section: Please write in past tense when describing your results.

As I understand the Study area, fresh water are open water and out-flow water while brackish water are terminal water and non-outflow water. If yes, then for simplicity stick to one of the classifications (fresh and brackish water) when describing your results (figures, tables and text). If not, please explain any difference between them.

Please use statistical power analysis ($1-\beta$) while testing differences between groups. p-values gives the probability of being wrong, $1-\beta$ the probability of being right.

Please state values of interquartile range (IQR) or robust-CV while writing about variation.

Page 6574 Line 8: I urge that you use partial least square (PLS) instead of MLR, since PLS are less sensitive to autocorrelation between variables.

Page 6575 Line 4-24: Are there any wetland/marsh land, or any other soil with higher amount of organic carbon, around the lakes/water bodies?

Table 1-3: Why are not DIC and DOC included in the tables?

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 10, 6559, 2013.