

Author's response for bg-2014-196

Dear Dr. Bouillon, dear editor,

The manuscript has been revised according to the referee's comments, which were only minor revisions, but helped to improve the manuscript.

The first reviewer suggested rewriting the discussion in a form that conveys the "story" of the carbon in their systems in clear and concise fashion. However, the reviewer doesn't specify this comment. We focused on exploring patterns in $\delta^{13}\text{C}$ in different carbon pools along a trophic gradient and not on making a carbon budget/story for the lakes. Therefore we focused on the other comments of reviewer 1.

- We added a site description with references (section 2.1)
- We added the time of sampling to section 2.2
- We added a sentence in section 4.1 about (possible) methanogenesis.
- We added some discussion on spatial/temporal variation in $\delta^{13}\text{C}$ -DIC to section 4.1
- The textual changes have been adopted in the revision.

Reviewer 2 had only one comment, to rename isotopic signature. This has been done throughout the manuscript.

Thank you for handling this manuscript. We hope the manuscript is ready for publication in Biogeosciences.

Sincerely,

Anna de Kluijver