

Interactive comment on “Mobile open dynamic chamber measurement of methane macroseeps in lakes” by Frederic Thalasso et al.

Anonymous Referee #2

Received and published: 19 October 2020

Comments to hess 2020-420

The manuscript introduces a mobile open dynamic chamber to determine the methane flux from lakes, ebullitive or diffusive. The Ms is well written and is clear and concise. However, there are some aspect which I found difficult to follow:

The design of the MOD is a bit difficult to grasp. More photos could be helpful here. Figure 1 should be improved, why is the top of the chamber open? What sort of purge ventil is used?

I found the indices for the different parameters a bit confusing. D- for detector and C- for chamber, ok, but I and O ??

I was wondering, when the detector is sucking gas from the chamber and there is no

ebullition, the purge ventil would let air into the chamber. I do not understand how you correct for this dilution and how you realize when there is more ebullition or more dilution? Ok, I read now the details on the purge ventil. But still, did you correct your measured data for a possible dilution?

Why did you divide your measurements into segments? The nice thing about your MOD is that you have continuous measurements on the whole lake. . .

Some more examples for the measured data and calculated fluxes would be appreciated.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2020-420>, 2020.

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Discussion paper

