

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

Frederic Thalasso et al.

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Thank you for the positive appreciation of our work. We are pleased that Anonymous Referee #1 found our manuscript of interest.

Technical comment: “Following equations S4-6 (supporting information) the authors calculate the spherical diameter of gas bubbles rising to the AWI, based on the methane content in bubbles. This content has to be analysed in parallel (here by gas chromatography). From my point of view these calculation simplifies the bubble size calculation and additionally, as it is known that GHG content within bubbles can vary by several per cent, another unknown is in the equation. Perhaps I oversee it, but I am missing water depth/pressure at depth in these equations as well as size when leaving

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the sediment. I recommend to rewrite this paragraph to clarify the calculation pathway”.

We agree that hydrostatic pressure should be specified in our calculations. We have clarified this section of the supporting information as shown in the attached PDF file ;

Please also note the supplement to this comment:

<https://hess.copernicus.org/preprints/hess-2020-420/hess-2020-420-AC1-supplement.pdf>

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