

## ***Interactive comment on “CO<sub>2</sub> and CH<sub>4</sub> fluxes are decoupled from organic carbon loss in drying reservoir sediments” by Tricia Light et al.***

**Anonymous Referee #1**

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This paper reported results of incubation experiment for reservoir sediments. The authors found that CO<sub>2</sub> emitted from organic matter degradation partly weathers carbonates in sediments, which apparently reduces CO<sub>2</sub> outgassing into the atmosphere. This sounds like very interesting to me and the authors did a really good job. I was wondering if the authors could a little bit more expand their discussion to the global carbon cycling in a drying world. To what extent do the authors think should the current CO<sub>2</sub> budget be revised if the carbonate weathering under the reservoir dryness is taken into account? Is this a trivial or negligible effect on the increasing temperature on this planet? Maybe one or two paragraph discussion would be beneficial for future researchers to follow this great work.

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