

## ***Interactive comment on “Effects of low oxygen concentrations on aerobic methane oxidation in seasonally hypoxic coastal waters” by Lea Steinle et al.***

### **Anonymous Referee #2**

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The study from Steinle et al on the "Effects of low oxygen concentration on aerobic methane oxidation in hypoxic coastal waters" is well written and very interesting. I especially appreciate the experimental set-up, as it is certainly very tricky to perform incubations at defined O<sub>2</sub> and CH<sub>4</sub> concentrations! However, I have some questions and remarks (most of them are typed into the pdf file). I think it is a bit confusing that the authors jump between the usage of  $k'$  and MOX. Sometimes they report on correlation for MOX and some times correlations for  $k$ . This should be handled in a more coherent way. The statistic tests should be explained in more detail in the M&M section, and not in the figure legends. I also think that there are more informations hidden in the in situ data. For example one could split the data set into surface and

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bottom water and than do seperate statistics. In addition I thought it is good / common practice now that at least the in situ data should be made available for the public. I could not find any indication here!

Please also note the supplement to this comment:

<http://www.biogeosciences-discuss.net/bg-2016-422/bg-2016-422-RC2-supplement.pdf>

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