

***Interactive comment on “Calcification and inducible defence response of a calcifying organism could be maintained under hypoxia through phenotypic plasticity” by Jonathan Y. S. Leung and Napo K. M. Cheung***

**Anonymous Referee #1**

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Dear Editor,

The manuscript “Calcification and inducible defense response of a calcifying organism could be maintained under hypoxia through phenotypic plasticity” by Leung and Cheung, presents interesting questions about possible eco-physiological adaptations observed on a calcifying polychaete exposed to acute hypoxia, including changes in calcification rates, shell composition and metabolism. Despite some interesting points, I think that the manuscript, in the present form, is not acceptable for publication, because of a substantial lack of detail on the protocols used for the experiments and the

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analyses, very shallow description of the main results and some over-interpretation of the results. A (very) major revision is therefore suggested.

Please find the complete review with major and minor comments in the file attached as a supplement.

Kind regards

Please also note the supplement to this comment:

<https://www.biogeosciences-discuss.net/bg-2017-378/bg-2017-378-RC1-supplement.pdf>

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Interactive comment on Biogeosciences Discuss., <https://doi.org/10.5194/bg-2017-378>, 2017.