

# ***Interactive comment on “New observations of the distribution, morphology, and dissolution dynamics of cryogenic gypsum in the Arctic Ocean” by Jutta E. Wollenburg et al.***

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We are very grateful for the praising evaluation of our manuscript by anonymous reviewer 2. Apart from being positive about the manuscript reviewer 2 asks for some speculative sentences on our finding in context to published papers on the fate of *Phaeocystis* /*Melosira* in carbon export, and to changes in the future Arctic Ocean. These suggestions conflicts with the suggestions of reviewer 1 who requested to be less speculative. The question why a ‘unsinkable alga’ like *Phaeocystis* can sink once ballasted by cryogenic gypsum has also already been addressed by Wollenburg et al., 2018. We are continuing our research and will address these questions again with

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numbers and facts rather than to be just speculative in our next paper. This manuscript was dedicated to what the title says 'New observations of the distribution, morphology, and dissolution dynamics of cryogenic gypsum in the Arctic Ocean'

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Interactive comment on The Cryosphere Discuss., <https://doi.org/10.5194/tc-2019-229>, 2019.

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