

Interactive comment on “Modelling Silicate – Nitrate - Ammonium co-limitation of algal growth and the importance of bacterial remineralisation based on an experimental Arctic coastal spring bloom culture study” by Tobias R. Vonnahme et al.

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We want to sincerely thank the reviewer for the very thorough review and believe the suggestions will help to improve the manuscript considerably. We will include all suggestions into a revised version as described in detail in the attached document (point by point response). The comments by referee #2 are marked in grey and our responses in black.

We also changed the fixed 80% reduction term in our model to a parameter that was

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subject to the fitting approach and sensitivity analyses. We fitted the model again with a more automated fitting approach and reached better fits for both the G98 and extended EXT model.

Please also note the supplement to this comment:

<https://bg.copernicus.org/preprints/bg-2020-314/bg-2020-314-AC2-supplement.pdf>

Interactive comment on Biogeosciences Discuss., <https://doi.org/10.5194/bg-2020-314>, 2020.

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