



EGUsphere, author comment AC2
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Reply on RC2

Anna Kolomijeca et al.

Author comment on "An update on dissolved methane distribution in the subtropical North Atlantic Ocean" by Anna Kolomijeca et al., EGU sphere,
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The authors would like to thank the reviewer for this feedback and are pleased that it was received well. We appreciate, that the reviewer shares our view that cyanobacteria might play a significant role towards the OMP. We do agree, that additional work is needed, both in investigating the occurrence of the mechanisms of methane production, described in this manuscript, in a natural environment and also to estimate specific rates of methane production in natural communities. However, this was not the scope of this work, but to provide a fundamental understanding of the role cyanobacteria play in the OMP. In our revised manuscript, we do now include a paragraph discussing individual rates of methane production of different marine primary producers, including both mentioned in our paper. We note, that there clearly is need for further research and would like to provide a basis with this manuscript present and enable research to proceed in this direction. Further, we did appreciate the reviewers comment regarding the language and worked over the manuscript. The authors would like to thank the reviewer again for his feedback and hope that the revised manuscript will be satisfactory and considered for publication.

On behalf of all authors,

Anna Kolomijeca