



EGUsphere, referee comment RC2
<https://doi.org/10.5194/egusphere-2022-360-RC2>, 2022
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Comment on egusphere-2022-360

Anonymous Referee #2

Referee comment on "An update on dissolved methane distribution in the subtropical North Atlantic Ocean" by Anna Kolomijeca et al., EGU sphere,
<https://doi.org/10.5194/egusphere-2022-360-RC2>, 2022

I support the publication of this paper. The observations and analysis discussed in this paper were clearly described and the results support the conclusions drawn. The overall objective of the manuscript "An update on dissolved methane distribution in the North subtropical Atlantic Ocean" by Kolomijeca et al. is good and is a useful contribution to the understanding of the release of methane from the oceans or the ocean methane paradox (OMP) and the factors that control the concentration distribution and the flux of CH₄. The results discussed in the paper support the hypothesis that cyanobacteria play a role in regulating CH₄ concentrations in upper waters with higher oxygen concentrations. The types of measurements made and the analysis completed are very good. Additional work needs to be done to show that the mechanisms suggested are really occurring in the natural environment. This paper supports this direction of future research. There were only a few minor typos.