Dear Marjorie Friedrichs

We thank you for this opportunity to revise and resubmit our manuscript and are grateful for the many constructive comments provided by our reviewers. We have made multiple changes to the manuscript in response to these comments and believe that this has strengthened our publication. We also made small editorial changes. Please find attached the revised version of our manuscript (both clean and with track change comments) as well as a point by point response to the reviewers comments.

In the manuscript we repeatedly refer to a manuscript submitted to JGR-Biogeosciences in revision (Wang et al. 2019JG005569R, Lagrangian studies of net community production: The effect of diel and multi-day non-steady state factors and vertical fluxes on O2/Ar in a dynamic upwelling region). If possible we would like to keep the citations to this manuscript in the text and if at all possible even link the both MS (once accepted) between the JGR journals. The manuscript is attached to this resubmission.

Best,

Sven Kranz