

## ***Interactive comment on “The temporal variability of oxygen inventory in the NE Black Sea slope water” by Alexander G. Ostrovskii et al.***

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Dear Reviewer:

We thank you for many judicious comments and helpful suggestions. Certain parts of the manuscript were rewritten and restructured. We went through the comments of the other three referees and made many other modifications in the paper. In particular, we applied the spectral analysis to justify the inertial variations of the oxygen stratification. The references were expanded. The figures and the figure captions were updated to comply with the requests of the referees. We decided to show the satellite imagery that indicates typical space structures over the study area that is important for identifying the dynamical processes at ocean mesoscale and submesoscale that are responsible

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for oxygen dynamics at timescales of several days. Our fellow researcher, Dr. Dmitry Soloviev, processed the satellite imagery and we invited him to be a co-author of this manuscript. The manuscript title was slightly changed to be more specific: The Short Timescale Variability of the Oxygen Inventory in the NE Black Sea Slope Water. Finally the manuscript was submitted to Wiley Editing Service for advanced editing. Many edits were made to further improve the flow and readability of the text. Some sentences were restructured to address the overly complex structure or to revise potentially unclear phrasing. In cases where the meaning of the text was not clear, revisions were made to convey the information with increased clarity and reduced ambiguity. Some edits were made to improve conciseness by trimming unnecessary words and streamlining the flow of the manuscript. The manuscript was edited by Wiley Editing Service for grammar, phrasing, and punctuation. This our response to your review (see supplement, please) includes: (1) the reviewer's comments and the author's response, (2) the author's changes in manuscript (a marked-up manuscript version), (3) the revised version of the manuscript.

On behalf of the authors, Alexander Ostrovskii

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Please also note the supplement to this comment:

<https://www.ocean-sci-discuss.net/os-2018-91/os-2018-91-AC2-supplement.pdf>

Interactive comment on Ocean Sci. Discuss., <https://doi.org/10.5194/os-2018-91>, 2018.

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