

# ***Interactive comment on “The Roles of Resuspension, Diffusion and Biogeochemical Processes on Oxygen Dynamics Offshore of the Rhone River, France: A Numerical Modeling Study” by Julia M. Moriarty et al.***

**Julia M. Moriarty et al.**

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Dear Reviewer #2,

Thank you for your supportive and constructive feedback, which has helped us improve the manuscript. As a result of this review, we propose changing the manuscript by including a more refined analysis, removing Figures 9a and 9b, and emphasizing resuspension's effect on ammonium, and how this affects seabed oxygen consumption. Additionally, the model equations and methods were clarified based on the reviewer's comments.

For detailed responses to each of your suggestions, please see the supplement. All page and line numbers refer to the original submitted manuscript.

Thank you again for the review.

Best Regards,

Julia Moriarty, Courtney Harris, Christophe Rabouille, Katja Fennel, Marjorie Friedrichs, and Kevin Xu

Please also note the supplement to this comment:

<http://www.biogeosciences-discuss.net/bg-2016-482/bg-2016-482-AC2-supplement.pdf>

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Interactive comment on Biogeosciences Discuss., doi:10.5194/bg-2016-482, 2016.

**BGD**

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