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Biogeosciences Discussions

Interactive comment on "Controlling factors of the OMZ in the Arabian Sea" *by* L. Resplandy et al.

L. Resplandy et al.

laure.resplandy@lsce.ipsl.fr

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We sincerely thank the reviewer for this excellent review and the constructive comments that largely contributed to the improvement of our manuscript.

In order to address the reviewer comments, major changes were made:

- The perturbation experiment that has not yet reached equilibrium, which makes it interpretation hazardous, was removed from the manuscript.

- The spatial distribution of the OMZ in now described focusing on the main run. The drift of this run is now extensively discussed before focusing on the biological and dynamical trends in oxygen. The spatial distribution of mean, eddy-driven, vertical and horizontal components of the oxygen transport are examined.

- In the part focusing on seasonality, we clarified some aspects by adding figures of the

horizontal circulation.

- Following the reviewer advice, we clarified the definition of the OMZ (core, oxycline, upper and lower OMZ).

Given the length of the review, specific answers to each of the comments and concerns are provided in the supplementary pdf file attached.

Please also note the supplement to this comment:
http://www.biogeosciences-discuss.net/9/C3950/2012/bgd-9-C3950-2012-supplement.pdf

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