

Interactive comment on “Structure of mass and momentum fields over a model aggregation of benthic filter feeders” by J. P. Crimaldi et al.

J. P. Crimaldi et al.

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My co-author and I would like to thank the anonymous referee for helpful comments and edits of the manuscript. The referee comments that the paper is rather lengthy, and I do not disagree. However, I feel that this is a unique and detailed dataset that will likely be of interest to benthic ecologists. The easiest way to present the dataset is through the series of graphs included in the manuscript. As a result, the length of the manuscript has not significantly changed in the revised form.

The referee also raises a question about the relation (or lack thereof) between shear velocity and the proportion of water refiltered. This issue is discussed in previous studies cited in the manuscript (e.g., O’Riordan et al., 1993; O’Riordan et al., 1995).

The referee suggests that the regular spacing of the mimic siphons might have an

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unnatural effect on the turbulence parameters. While I suspect that this effect is probably minimal, I have included a discussion of this possible shortcoming in the revised manuscript, with a suggested for future studies to look at the effect over random distributions.

Interactive comment on Biogeosciences Discuss., 4, 493, 2007.

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4, S346–S347, 2007

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