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Biogeosciences Discussions

Interactive comment on "Near-future levels of ocean acidification do not affect sperm motility and fertilization kinetics in the oyster *Crassostrea gigas*" *by* J. N. Havenhand and P. Schlegel

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1. The Introduction of the revised paper now outlines the explicit hypothesis tested in this paper: that near-future levels of ocean acidification (~0.3 pH unit decrease) will not affect the sperm motility or fertilization success of the Pacific oyster, Crassostrea gigas.

2. The reviewer raises an interesting question about the potential effects of acidification on sperm longevity. Unfortunately assessing the impacts of pH on sperm longevity requires a different - and labour-intensive - set of experimental designs (see eg Bolton & Havenhand 1996, Biological Bulletin vol 190), and therefore this was not done here.

3. The grammar and syntax of the paper has been revised in line with this reviewer's comments.

Interactive comment on Biogeosciences Discuss., 6, 4573, 2009.