

Interactive comment on “Laboratory study of frazil ice accumulation under wave conditions” by S. De la Rosa and S. Maus

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We thank the three Anonymous reviewers for their feedback on our manuscript and for the constructive comments and suggestions which will improve the flow and presentation of the manuscript. In the separate .pdf supplement we have replied to each reviewer comments and provided extended explanations and/or changes that will be or have already been made in a revised manuscript.

A summary of our major changes include the following:

- We split Table 1 into two tables and reduced numbers given to two decimal places.
- We removed Figure 10 from the paper and replaced Figure 4 with a contour plot of all out data for Experiment 1 (both tanks) to illustrate the spatio-temporal variability

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of a) frazil ice thickness, b) frazil salinity and c) frazil ice solid volume fraction. - Considerable work is being carried out to improve the text and remove repetitions. It is clarified that ice conditions for Experiments E2 and E4 evolved similar to E1 and E3, however water was already close enough to freezing so that ice formation started much earlier than during E1 and E3. Sampling for the early hours of these two experiments could not be obtained, so the presented values ‘miss out’ Mode 1, as the light grey shading in the histograms of Figure 6 illustrate.

Please also note the supplement to this comment:

<http://www.the-cryosphere-discuss.net/5/C1072/2011/tcd-5-C1072-2011-supplement.pdf>

Interactive comment on The Cryosphere Discuss., 5, 1835, 2011.

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