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Comment

## ***Interactive comment on “About the consistency between Envisat and CryoSat-2 radar freeboard retrieval over Antarctic sea ice” by S. Schwegmann et al.***

**J.-L. Tison (Editor)**

jtison@ulb.ac.be

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Dear Authors,

Additional comments on your revised manuscript from one of the initial reviewers have now been posted.

The reviewer acknowledges significant revisions and improvement. However, he/she notes that revision has brought up a few more issues, which I would like you to consider before I can accept the paper for publication. In summary:

a) The referee (and myself!) is struck by the large contrast between the results for lead

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fraction between Cryosat-2 and Envisat in Figure 4. He wonders about the algorithm and strongly recommends that you check it!... I agree. It is not my field, but I would think that the contrast is so strong that it should be possible to cross-check it (at least in specific areas) e.g. against other satellite products

b) The reviewer also recommends to uniformize the color scale in Figure 5 between a, b and c...I guess he refers to the opposite color schemes(?)...

c) The referee is also concerned with the reference you make to a potential spatial resolution impact on the comparison of the results, but he argues that this should not be the case anymore since you converted both data sets to the same 10 kmx 10 km (?)...is there a "memory effect" of the initial scale difference?

d) He/She also recommends that you detail check the english again and suggests a few, non exhaustive, corrections!

May I ask you to respond to these few last items so that we can move to the final acceptance of the paper?

Looking forward to your reply,

Best regards,

Jean-Louis Tison

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Interactive comment on The Cryosphere Discuss., 9, 4893, 2015.

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