

## ***Interactive comment on “Utilisation of CryoSat-2 SAR altimeter in operational ice charting” by E. Rinne and M. Similä***

**Anonymous Referee #2**

Received and published: 17 September 2015

This paper describes the usage of near real time CryoSat-2 for operational ice charting. The technique is quite novel and interesting, and overall the methodology seems sound. The potential for expansion to the Antarctic is also interesting and would be an useful follow up study. The manuscript is well written and I thus have only a few minor comments listed below. I recommend publication of the manuscript for the journal.

Minor comments

There are a few grammatical errors present throughout the text.

Figures 1 and 2: Latitude and longitude labels would be much better for the maps.

Eqn 1 and throughout: Note that the new Baseline C CryoSat-2 data has 256 bins in the waveform rather than 128. I am not sure whether the near real time data has changed

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in this manner, but something along these lines should be noted in the manuscript in this case.

P 4124, L4-5: The SSD is essentially the standard deviation of power values formed from the set of Doppler waveforms over different incidence angles. A reference to the definition in Wingham et al., 2006 would be appropriate here.

P 4124, L 20-23: This is a vague sentence, it would be useful to state specifically what the other waveform characteristic is.

P 4125 L 13: During which time of year was the training data set initialized?

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Interactive comment on The Cryosphere Discuss., 9, 4117, 2015.

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