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Interactive comment on "Winter sea ice export from the Laptev Sea preconditions the local summer sea ice cover" *by* Polona Itkin and Thomas Krumpen

J. Hutchings (Editor)

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Dear Drs Itkin and Krumpen,

Thank you for your response to reviewer 2. I am in agreement that this paper is presenting useful insight about the summer retreat of ice in the Laptev Sea. It would be of value to the readers if your response can be incorporated into the paper to highlight the key new results.

I also have one comment to add regarding the sensitivity study. As you are moving from climatology in May-Dec to presumably 6 hourly reanalysis winds Jan-Apr, I am concerned that damped (lower magnitude) winds in the climatology are affecting your

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results. Is it possible that the transport of ice in your sensitivity experiment is less in summer than the control. Is this why you see a reduction in the magnitude of the seasonal cycle in volume and ice area in the sensitivity study compared to control?

I found a couple of typos, please check for any other small grammatical errors.

Abstract Line 4: Once temperatures rise (missing 's') Discussion Line 8: has less than a four month time to grow (missing 'a')

Please respond to all points raised by the reviewers when you present your revision.

Best regards, Jenny

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