

## ***Interactive comment on “Satellite ice extent, sea surface temperature, and atmospheric methane trends in the Barents and Kara Seas” by Ira Leifer et al.***

**Ira Leifer et al.**

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Received and published: 5 March 2019

March 4 2019

Dear Jennifer Hutchinson,

We are pleased to submit responses to the discussion comments.

Please note that some of the new comments are very similar to the points that anonymous reviewer #1 had raised in the first version that we submitted, and which we had corrected (to the satisfaction of reviewer #1).

We appreciated the comments of Dr. Antonia Gambacorta and carefully addressed

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each concern including new data analyses. This is a lot of material and we propose to include it as a supplement in the manuscript.

In our response we include a figure on the fine size scale of the plumes observed in situ – but we don't think this adds to the science questions we pursue in the manuscript. The data are already being submitted with the manuscript if accepted, in table form and/or as an interactive data product – i.e., perhaps as Google Earth kml maps.

We look forward to your suggestions.

Thank you for your consideration and patience,

Sincerely,

Ira Leifer and Co-Authors

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Interactive comment on The Cryosphere Discuss., <https://doi.org/10.5194/tc-2018-237>, 2018.

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