

## ***Interactive comment on “How much should we believe correlations between Arctic cyclones and sea ice extent?” by Jamie G. L. Rae e al.***

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We thank the reviewer for his/her comments. However, we respectfully suggest that he/she may have misunderstood the purpose of the paper. The aim of the paper was not simply to find correlations between sea ice extent and cyclones, but rather to analyse the robustness or otherwise of such correlations.

We showed that the correlations are dependent on spatial resolution, tracking variable, spatial domain, and time period used. We thus concluded that they are NOT robust, and that the results of previous studies that have used correlations between summer storms and Arctic sea ice may also NOT be robust.

This misunderstanding suggests that the paper in its current form may be ambiguous

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with regard to its purpose and conclusions. If that is the case, we are happy to revise the wording to make it clearer.

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Interactive comment on The Cryosphere Discuss., <https://doi.org/10.5194/tc-2017-140>, 2017.

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