

***Interactive comment on* “Observations of late-winter marine productivity in an ice-covered fjord, West Greenland” by David Chandler and Shona Mackie**

Anonymous Referee #2

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I think this is a unique and essential dataset contributing immensely to the body of evidence on climate change issues. Extreme environmental conditions at the experiment sites were carefully mitigated to collect bias-free data. The only concern that I would have is that as a data paper, this manuscript should be free of any interpretation of the data. Such comments tend to suggest the author’s opinions and views to the readers. The authors should avoid such an explanation leaving just a general assessment as to the ways the data can be used, e.g., as a validation or calibration data set of remotely sensed observations.

Below are some minor things I noticed while reading the manuscript.

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L13 and through the text: '±.' I would not use this symbol in this context because it indicates a range. What you are trying to say is: 'one standard deviation.' And as you know, the SD is a positive root square of the variance. This note is just a cosmetic one. In some sciences, this is still acceptable.

L94. 'shortly after the transition from polar night to spring conditions.' How many days since the end of the polar night?

L151. '...the of the last. . .'

L209 'variance' change to 'standard deviation.' - Add coordinates and the north arrow to the maps. - Add the year to the caption of the graphs and tables.

I think this manuscript titled 'Observations of late-winter marine productivity in an ice-covered fjord, West Greenland' by David Chandler, Shona Mackie is worthwhile to be published in this journal.

Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2019-181>, 2019.

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