

The Cryosphere Discuss., community comment CC1
<https://doi.org/10.5194/tc-2021-80-CC1>, 2021
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Comment on tc-2021-80

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Community comment on "MOSAiC drift expedition from October 2019 to July 2020: sea ice conditions from space and comparison with previous years" by Thomas Krumpen et al., The Cryosphere Discuss., <https://doi.org/10.5194/tc-2021-80-CC1>, 2021

Dear Thomas and co-authors:

I have read with great interest the recent manuscript on the MOSAiC expedition, which gives a very interesting overview of the trajectory of the drift and corresponding conditions.

However, I am concerned by a statement on page 7, where you discuss the low observed ice concentration already in April. In line 287 you state that "On the floe also refreezing rain on snow was observed." As a participant on this expedition I do not recall any direct observations of rain during the month of April. Apparently, periods with temperature close to the melting point occurred. However, they alone do not justify the occurrence of rain. If no other observations can justify such a statement, I believe other processes or properties should be discussed as a reason for the low observed ice concentrations.

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