

Earth Syst. Sci. Data Discuss., referee comment RC2
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Comment on **essd-2021-297**

Anonymous Referee #2

Referee comment on "An extensive data set for in situ microphysical characterization of low-level clouds in a Finnish sub-Arctic site" by Konstantinos Matthaios Doulgeris et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2021-297-RC2>, 2021

There is a lot of value in these datasets and descriptions, and the robust and detailed comments from reviewer#1 are very good and improve the manuscript. My comments:

Major: The data are described and presented as if the data are perfect. There is no description or estimate of error or uncertainty in the data, no discussion of data processing, limited discussion of calibration, and no discussion of potential sampling artefacts aside from identifying periods where inlets are frozen. This is quite challenging to do, but if the idea is to put this dataset out into the public domain as being representative ambient data, then it needs a complete description.

Minor: It can be very difficult to obtain instrument manuals. Sometimes urls change and links become defunct. Is there a way in which the relevant manuals can be provided with the manuscript, or permanent links established?

Minor: With time there can be changes to firmware used during data acquisition, and sometimes this can affect. Were there any changes in Firmware between projects? The software and firmware used for data acquisition/processing should at least be documented in some form of table.