Interactive comment on “First Look at the Occurrence of Horizontally Oriented Ice Crystals over Summit, Greenland” by Sebastian Cole et al.

Anonymous Referee #3

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“First Look at the Occurrence of Horizontally Oriented Ice Crystals over Summit, Greenland” by authors, measured the microphysical properties of clouds, which is useful for study HOIC and ROIC. But this paper is not suitable for publishing in ACP. The followings should be improved. 1. The method used in the paper to find the HOIC need validation in detail, which is the basic of the results. 2. Too much poor addresses of the results is not need, also there is few information in some figures and they may be combined together. 3. In order to get statistics results, such as monthly one, one year observation is not enough, where more years will be better. 4. The temperature, RH and horizontal wind speed are linear interpolated into the cloud lidar’s results, which is not good. It is better to use T, RH and Wind lidar to testify your issues.

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