

Comments on **acp-2021-39**

Variability of Black Carbon mass concentration in surface snow at Svalbard by Berto et al.

I appreciate the authors providing me with detailed responses to my previous comments, which help me understand this paper in-depth. I recommend the publication of this manuscript after minor modifications.

1. The abstract of the paper needs revision.
 - (a) The statement “Two different snow-sampling strategies were adopted during spring 2014 and 2015 ...” is misleading, as the 3-days of data is not representative of the entire spring season of the year 2015.
 - (b) Line 32-33: “Precipitation events were the main drivers of the BC variability”, this contradicts with the results stated in lines 503-513.
 - (c) Line 34-35: “(wind resuspension in specific Arctic areas where coal mines were present)” is not clear.
2. Please include in section-2: How water conductivity was measured/ estimated?
3. Figure-4 caption: “given the remaining covariates”, the sentence is not complete. 95% and 90% confidence interval can be marked in the figure.
4. Table-1: what is intercept in the first row?
5. Line 493: and additional process > an additional process