

REVIEWER 2

The authors did a good job at addressing the reviewers' comments. The manuscript is now easier to follow and the key messages better presented. I only have very minor comments at this point.

page 4, line 17: "concentration data showed here were adjusted". Please very briefly (in one sentence) explain how.

We clarified this point.

The comparison was performed between the two atmospheric inlets (110 cm from the snow tower and 360 cm from the micrometeorological tower), we thus evaluated the deviation across time and corrected this deviation for a better comparison.

page 4: while I understand that lines 7-8 refer to the snow towers, I am not sure I understand what lines 17-19 refer to.

This refers to the snow tower as well. This section describes the sampling sequence and the measurements.

page 8, line 4-6: Angot et al., 2016b refers to Antarctic rather than arctic snowpack measurements.

We corrected that. Thanks!

page 8, line 26: "snowfall amounts at Toolik were much lower than in temperature snowpack". Please provide data or a reference to support this.

We added references.

page 12, line 19: Nerentorp Mastromonaco et al., 2016 refers to AMDEs in Antarctica, not in the Arctic.

Thanks! This is now corrected.

page 12, line 26: "observed in deeper in the snowpack" should be "observed deeper in the snowpack".

Done.

page 14, line 22: "may influenced" should be "may influence".

Done.