

I would like to thank the anonymous reviewer for his remarks on the revised version of the manuscript acp-2023-788.

Very minor (technical) suggestions for the revised version.

- the overpass criteria were going to be clarified for the MSR2 values selection; please ensure that the simple sentence that was supposed to be included actually gets included (it did not seem to be - at line 128, presumably).

The sentence was completed as mentioned in the previous answer to referee 1.

- Abstract, line 33, please change "limited significant" to "limited significance"; also the last sentence in the Abstract should read "With such a metric, a potential quantitative detection...can be made."

Done

- Line 161 should read "The number of observations in the Arctic vortex ..."

OK

- Figure 11 on page 18 should be numbered Figure 12.

The number of the figure was changed. Thanks