

Archival processes of the water stable isotope signal in East Antarctic ice cores.

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General comments: The revised manuscript shows significant improvements in the structure and it is easier understandable for the reader. The crosslinking between the texts and the figures were significant improved and the individual contents are adequate to get the context. But I would still recommend some small corrections (see specific and detailed comments) before publications.

Specific comment 1: It would be interesting to see in the figures (e.g. figure 3, 5 and 7) the measured wind speed at the location (if available). In the experiments by Ebner et al. 2017, one can see a strong interaction between snow and airflow. Maybe there is also a link between temperature and wind speed on the isotopic composition of the snow.

Detailed comment:

Page 17 Line 12: The font of $n_v \Delta R_v^{18}$ has to be adapted.

Page 21 Line 3: "... index, SSA decreases under the influence of metamorphism)" -> suggest to delete it -> It's the same statement already mention at the beginning of this sentence.

Page 21 Line 4: "On 19 December, it is likely that a precipitation event occurred" -> why "likely"? Based on the Figure 7, there was a precipitation event, also the days before but without a significant influence on the SSA.

Page 23 Line 8: "... to the accumulation rate (around 8 cm)." -> Where is this number from? Maybe I missed it in the manuscript.