

Interactive comment on “A centrifugal ice microtome for measurements of atmospheric CO₂ on air trapped in polar ice cores” by B. Bereiter et al.

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The points mentioned by the Referee #1 are listed below. Each point is followed by our answer/editing.

Page 7869, line 11-14: The sentence starting with “The melt extraction. . .” is awkward. Full stop after “. . . (Kawamura et al., 2003)” may correct this.

We change the sentence as follows: ... (Kawamura et al., 2003), however, ...

Page 7874, line 9: What is the membrane bellow made of?

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Stainless steel. We add this information in brackets in the caption of Fig. 2.

Page 7879, line 9: “effects” instead of “affects”

We change the word accordingly.

Page 7879, last line: “than” instead of “as”

We change the word accordingly.

Capture of Fig. 4: The meaning of the last sentence is not clear. “..,whereas the samples with weights > 0 g were corrected for their average offset to their standard” reads for me as “all samples were corrected for. . .”. “Standards” would also be more appropriate since two concentrations were measured presumably with two standards.

We change this last sentence as follows and hope to clarify this: They represent the standard deviation of all data points of the corresponding standard gas shown in this figure. To calculate these deviations, in a first step all results from samples with weights > 0 were corrected for their mean offset to the corresponding standard value.

Interactive comment on Atmos. Meas. Tech. Discuss., 5, 7867, 2012.

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