

Interactive comment on “Characteristics of immersion freezing nuclei at the south pole station in Antarctica” by K. Ardon-Dryer et al.

K. Ardon-Dryer et al.

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Received and published: 3 April 2011

Reply to the amended comment of reviewer 2: (We believe that there is an error here and that this amended comment was written by Reviewer 1 and not 2)

Reviewer 2: (P96 l 12) It not clear which criterion the authors use to eliminate “bad data” points (“contamination”) using the blank filter measurements. Why do you have used this criterion on the filter 7-12 but not on filter 1-6 . I call this a minor point only, because the correction is of minor importance to the results (like the authors state (P96 l 19)) and might be discarded.

Reply: The bad data points were those which overlapped with the points from the sampled filters. In the older version of the paper this overlap between the blank and

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the samples was only with filters 7-12 and not 1-6. In the new revised paper, the number of drops that froze at each temperature on the blanks was subtracted from the corresponding data on each and every filter. In the answer to the Reviewer comments in C477 we described this in more details.

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 91, 2011.

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