

Interactive comment on “Re-evaluating the Frankfurt isothermal static diffusion chamber for ice nucleation” by J. Schrod et al.

J. Schrod et al.

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We thank the referees for their constructive discussion points. We are currently formulating more detailed point-by-point responses but would like to directly take the opportunity to respond to one comment by Referee #2.

The present paper is not meant as a substitute for corrigenda or withdrawal of previously published erroneous FRIDGE data where necessary. We assure the referee and the community that we are working on these issues and such remediations will soon follow separately. Furthermore, we note that the interpretation of our term (perhaps strongly worded) “invalidated” as “useless” requires clarification. While previous measurements are certainly incorrect in terms of absolute numbers, not all information

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from previous measurements is lost. Measurement image files have been stored and from these images it is possible to visually distinguish and count the true number of ice crystals (i.e. INP) on sample wafers. Unfortunately, the number of ice crystals is usually low, making it impossible to post-facto retrieve statistically strong signals. Thus for some systems relative signal etc., may be intact, but as a general rule pre-2012 data cannot be systematically corrected (e.g., with a multiplicative factor). Our original wording was chosen to reflect as truthfully as possible those underlying issues, without qualification.

We hope that by directly clarifying this issue we can help focus the discussion on the content specific to this manuscript, and welcome further suggestions.

Interactive comment on Atmos. Meas. Tech. Discuss., 8, 12525, 2015.

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