

Interactive comment on “Ice condensation on sulfuric acid tetrahydrate: implications for polar stratospheric ice clouds” by T. J. Fortin et al.

T. J. Fortin et al.

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R. Zhang brings up an excellent point that we failed to address in our paper. To rectify this we have made the following changes in the final version of the paper. First, at the end of section 2.2, we have added the following sentences to conclude the paragraph: “However, both procedures could result in SAT surfaces that are preactivated for ice formation, similar to what has been suggested for NAT nucleation on SAT (Zhang et al., 1996). This point will be addressed further in the following section.” Second, in the newly added sixth paragraph of section 3, the text has been changed to read “...in light of how SAT is prepared in this study, one possibility is that our SAT surfaces could be preactivated towards ice formation, thereby enhancing their efficiency as ice nuclei. However, since SAT is most likely to form in the stratosphere via a heterogeneous mechanism such as that utilized here (e.g., Peter, 1997), the distinction between SAT and preactivated SAT in this study is immaterial to the implications of the results.” We

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hope that these additions are sufficient to appropriately address the issue.

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