

Interactive comment on “Measurements of natural deposition ice nuclei in Córdoba, Argentina” by M. L. López and E. E. Ávila

G. Kulkarni

Gourihar.Kulkarni@pnl.gov

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Authors presented a new experimental technique to investigate the ice nucleating properties of ambient aerosols. The temperature (Temp) and supersaturation (SS) fields within the cloud chamber are validated using temperature-humidity probe meter. If I'm correct, this meter will provide Temp and SS measurements at only fixed location (s) within the cloud chamber. Based on these measurements authors assume that Temp and SS fields are uniformly distributed within the chamber. However, authors do not provide justification for this assumption. Every time when air is injected to increase RH (Fig. 2), this could produce air motion and turbulence. It is possible that the turbulent air motion could distort uniformity of SS field and might produce sub-saturated conditions at few regions within the chamber. This would affect the IN concentration

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measurements. Wondering if authors have any comments on this? Thank you.

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 31699, 2012.

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