

## ***Interactive comment on “Ice Nucleation Activity in the Widespread Soil Fungus *Mortierella alpina*” by J. Fröhlich-Nowoisky et al.***

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Received and published: 12 December 2014

We thank G. Vali for constructive comments and suggestions, which are highly appreciated and have been taken into account upon revision of our manuscript. Detailed responses are given below.

G. Vali: In this work, the problem manifests itself in the poor quality of information that can be derived from Figs. 2, 3 and 4. Each of the lines shown in these figures have one point on left side that is lower but the rest of the points are practically indistinguishable in magnitude along the ordinate scale. With the large number of different samples to test, the measurement of ice nucleating ability had to be simple and modest. Nonetheless, perhaps the authors can find better representations of the data than what is seen in Figs. 2, 3 and 4.

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Response: We optimized the figures and added binomial confidence intervals (as suggested by referee 1). We think that the number of IN per gram mycelium as a function of the temperature is the information the reader is looking for when a manuscript is about an ice nucleation active fungus.

G. Vali: It is mentioned in the paper that three replicate soil samples were taken from each location in the field. It is regrettable that no data are presented to show how much scatter was detected for the replicates.

Response: As described in the manuscript (page 12701, line 5) the three replicates were bulked together on site. For clarification we changed the text into: “. . . were mixed together”.

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Interactive comment on Biogeosciences Discuss., 11, 12697, 2014.

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