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Interactive comment on “Source areas and trajectories of nucleating air masses within and near the Carpathian Basin” by Z. Németh and I. Salma

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The authors thank Referee #2 for his/her precious comments for further improving and clarifying the ACPD paper. We have considered all recommendations, and made the appropriate alterations. Our responses to the comments are as follows.

General comment

Response to Comment 1 We fully agree with the Referee, and made several modifications in the text including section 2.2, and regarding the usage of the misleading expression “track” in particular in section 3.3. The term questioned was removed as well.

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We also clarified better our objectives at some other places in the MS. The endpoint of a trajectory and the projected area of the city indicate the furthest distance and its uncertainty where the actual new particle formation event extended, and, therefore, we would like to keep this analysis in the MS. The discussion, however, was substantially modified to emphasize our goals and results better. To avoid any misunderstanding, we modified the title as well to be more specific and precise.

Specific comments

Response to Minor comment 2 The wind roses were generated from wind speed and wind direction data measured at a height of 2 m above ground level on the sites. At the same time, the backward trajectories were calculated for an arrival height of 200 m. Direct comparison of their results has limitations, which we expressed now better in the text.

Response to Minor comment 3 Length scales were added to Figures 4-6 as requested.

Imre Salma (www.salma.elte.hu) 15 July 2014

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