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## ***Interactive comment on “Towards a first classification of aerosol shrinkage events” by E. Alonso-Blanco et al.***

**Anonymous Referee #1**

Received and published: 13 October 2015

The paper is a useful description of aerosol shrinkage events phenomena. Its is based on a long-term time series, and the results could serve as a basis for further studies of the processes. The main shortage of the paper, however, is that the stated classification is actually not a classification, only a description, as it does not give any straightforward instruction for classification. Some instructions, based on exact values would be appreciated, and I also believe, would increase the scientific sounding of the paper.

Specific comments:

The description should not be based only on the concentration maps, but on the mode positions as well. The plots and their subjective evaluation not always have to reveal

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all the phenomena and processes.

Further, the diameters of individual modes would be better to be assessed by fitting individual spectra to capture the processes in a deeper detail and time resolution, rather than stating for example Aitken mode having sizes 30 - 100 nm all the time, not dependent on meteorology etc?

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Interactive comment on Atmos. Chem. Phys. Discuss., 15, 25231, 2015.

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