

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

C7892

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?

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

C7893