

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

### **Anonymous Referee #2**

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The manuscript is well written and worthy of publishing in ACP. However, the shrinkage of atmospheric particles is debatable in research community. A few researchers may argue that the particle shrinkage could be due to changing air mass rather than “real” particle shrinkage. To be fair, the argument is of course applicable for the growth of atmospheric particles reported in literature. To convince research community rather than this reviewer, the authors are encouraged to present the analysis of air mass back trajectories before, onset, in the mid and the end of shrinkage at 100 m, 500m and 1000m altitudes if possible. This is because a few new particle formation events may occur at height rather than at ground level (Meng et al., A.E., 2015, 102, 366-375)

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