

## ***Interactive comment on “The role of mixing layer on changes of particle properties in lower troposphere” by L. Ferrero et al.***

**Anonymous Referee #1**

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The paper describes the chemical-physical properties of atmospheric aerosol from vertical profiles measured in Milan during three years field campaign. Number size distribution and chemical composition profiles are presented and discussed. Vertical profiles aerosol data are relevant because they form the link between aerosol ground-based observations and aerosol retrievals from spaceborne sensors. Despite the scientific significance of this topic, the present study fails in proving a significant contribution to knowledge's progress. The results presented are poor of novelty and their implications quite unclear. Further, paper is penalized by an inappropriate use of the English language which makes the reading of few sections quite difficult. The reviewer would advice the authors to revise the manuscript, especially the results and discussion section. Major efforts should be made to provide a more clear and concise presentation of the observations and to highlight the novelty and relevance of the findings.

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