

Interactive comment on “South African EUCAARI – measurements: a site with high atmospheric variability” by L. Laakso et al.

Anonymous Referee #2

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This paper provides an overview of the measurements of chemical composition and physical properties of atmospheric aerosols made in a polluted region of South Africa. The paper mainly provides a description of the measurement site and the instrument setup. Analysis of observations is limited and is restricted to a 9-day period. A follow-on paper will analyse observations recorded over a longer time period.

Major comments

The paper gives a clear and detailed overview of the observational setup and an introduction to the measurements taken combined with a limited analysis of the data. In my opinion the paper as it stands has no substantial flaws. However, the paper adds very little scientific knowledge and very limited data to the literature. Data analysis and interpretation is very limited, restricted predominantly by the short dataset presented.

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As a description of a measurement site the paper might warrant publication. However, the paper would be greatly improved by presenting a dataset recorded over a longer period combined with a more substantial analysis.

Minor comments

P30695, L10: “is is”

P30698, L19: Change “flowis” to “flow is”

P30705, L4: Dates here do not seem to match those in Figure 7.

P30705, L17: Are all the gas-phase species observed here impacted by wet scavenging?

P30705, L17: Missing space.

P30706, L8-L9: Please provide a reference for this statement.

P30707, L27: Please clarify what the range and number in parenthesis represent.

Interactive comment on Atmos. Chem. Phys. Discuss., 10, 30691, 2010.