

## ***Interactive comment on “An investigation of nucleation events in a coastal urban environment in the Southern Hemisphere” by J. F. Mejía and L. Morawska***

### **Anonymous Referee #2**

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The manuscript "An investigation of nucleation events in a coastal urban environment in the Southern Hemisphere" by "J. F. Mejía and L. Morawska" presented interesting data on new particle formation in Brisbane (Eastern Australia). The data itself is very interesting because it includes several periods (2-4 weeks each) in different seasons during 2006 and 2007.

While I do agree partly with the other referees' comments, I see this require more analysis. One of the main issues here is the to look further in the wind sector and find possible sources of air pollutions. The authors did not mention that the Brisbane airport is located to the west of their sampling site and the effect is very clear in their

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data when the prevailing wind was from that direction.

I do encourage the authors to conduct more intensive wind-sector analysis for the particle concentrations and gases and find correlate that to the sources. In that case, averages are not useful. Instead making time series analysis and seperating the effects based on high time-resolution would do so.

The main findings here are not only new particle formation, but what is more interesting to show other sources in the area. As the authors indicated, the new particle formation was rare they should explain the behavior of aerosols at that measurement location.

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Interactive comment on Atmos. Chem. Phys. Discuss., 9, 2195, 2009.

## ACPD

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