

Interactive comment on “Relationship between particulate matter and childhood asthma – basis of a future warning system for Central Phoenix”
by R. Dimitrova et al.

J. Lozovatsky

j.lozovatsky@gmail.com

Received and published: 15 November 2011

I found this study interesting and important for understanding the effect of PM10 concentration outbursts on the human health, specifically asthma attacks. The results seem to be solid, but I'd like to get more justification for the presumption of a linear regression between the input and output data. The cross-correlation analysis could be used as an alternative approach.

The analysis of daily averaged information suggests that the time lag between sudden increase of PM10 and most of the registered asthma attacks is quite short, but it could as short as a few hours, which requires a more detailed data base. This is an important

C11859

issue for developing and/or improving an urban warning system.

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 28627, 2011.