

Interactive comment on “

On the corrosion and soiling effects on materials by air pollution in Athens, Greece” by C. Tzanis et al.

Anonymous Referee #1

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The authors present and discuss the experimental results, obtained at Athens, Greece during the European project, entitled MULTI-ASSESS. The purpose of this project was to determine the corrosion and soiling effects of air pollution on materials. In particular, specimens of structural metals, glass, stone and concrete materials were exposed to the air-pollution on the roof of a building, located in the Athens centre and for the first time at different heights on the same building, and after the exposure basic parameters as the weight change, the layer thickness and the optical properties were calculated in

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order to examine the corrosion and soiling of materials. The results obtained can be used to study the deterioration of materials used in historical and cultural monuments due to air pollution and climate by developing new dose response functions and soiling models that correspond to the new pollution situation. I consider that the work done is innovative and valuable for the current research in this topic, which is certainly within the scope of the journal "Atmospheric Chemistry and Physics". I verify that the authors have taken into account all the comments that I made in my previous review and so, I recommend publication of the paper in its current form.

Interactive comment on Atmos. Chem. Phys. Discuss., 10, 29599, 2010.

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