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Interactive comment on "On the aerosol weekly cycle spatiotemporal variability over Europe" *by* A. K. Georgoulias and K. A. Kourtidis

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We would like to thank Dr Schultz for his comment.

Since this paper deals with the weekly cycle patterns and variability of aerosols over Europe, we primarily focused in our introduction on giving a review of the papers that have studied the existence of pollution weekly cycles around the globe, also citing some studies that deal with the weekly cycle of meteorological parameters. All the references cited by Dr Schultz deal with weather phenomena (namely precipitation). While weekly cycles in meteorological variables are currently debated, this is not the case with air pollution indicators for which weekly cycles are much better established. However, we agree that the inclusion of papers that do not favor the existence of weekly cycles would lead to a more balanced introduction. Following the comment of Dr Schultz and

the specific comment (2) from the anonymous reviewer #2 we added in the introduction a paragraph citing a number of articles that have challenged the existence of weekly cycles (e.g. DeLisi et al., 2001; Schultz et al., 2007 and references therein; Hendricks Franssen, 2008; Bäumer and Vogel, 2008; Hendricks Franssen et al., 2009; Sanchez-Lorenzo et al., 2009).

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 1385, 2011.