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Comment

Interactive comment on “Effect of atmospheric organic complexation on iron-bearing dust solubility” by R. Paris and K. V. Desboeufs

R. Paris and K. V. Desboeufs

desboeufs@lisa.u-pec.fr

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We thank Ryan Sullivan for his comment. We are aware of the need to precise the possibility of mixing between dust and organic compounds. The knowledge of this mixing is presented in the introduction of our previous paper Paris et al. (Atmos. Envir., 2011). We know of course his publications and the proposed papers, and some of them are cited in Paris et al. (2011). We had thought to save this point in this paper. However, the comment of Dr Sullivan reminds us the importance to place our laboratory experiments in a concrete context in order to show their possible implications. Thus, we added a paragraph on the mixing between dust and organic compounds in the introduction: "Several field studies reported observations of dust mixed with organic species, mostly of short-chain oxygenated hydrocarbons and carboxylic acids (Russell

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et al., 2002; Falkovich et al., 2004; Sullivan et al., 2007). Observations of rain samples which contained both dust and organic species have been also reported (Buck et al., 2010; Desboeufs et al., 2010)."

Interactive comment on Atmos. Chem. Phys. Discuss., 13, 3179, 2013.

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