Interactive comment on “Dust resuspension under weak wind conditions: direct observations and model” by O. G. Chkhetiani et al.

Anonymous Referee #1

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The manuscript ‘dust resuspension under weak wind conditions: direct observations and model’ by Chkhetiani and co-workers presents interesting results on the behaviour of fine aerosol particles emissions from soil for different values of friction velocities. The manuscript first gives a sufficient description of the experimental results and links these to detailed theoretical explanation and a new theory. I recommend publishing this paper without any major comments in the journal of Atmospheric Chemistry and Physics. Some more technical notes are below and they should be considered for the final version.

Page 31234, line 5: This sentence is missing a verb and needs to be reformulated

Page 31234, line 7: Gillette and Sinclair (1990); Gillette et al. (1993) -> (Gillette and Sinclair, 1990; Gillette et al., 1993)
Page 31234, line 8: measuring -> measurements

Page 31237, line 15: ... is concentrated on small scales ... -> is concentrated on small scaled particles...

Page 31239, line 17: ... viewed as a background concentrations ... -> viewed as background concentrations

Figures: all figure-text has to be increased and especially the legends; there is no way you can read this in a printed version

Figures 1 and 2: the legends in figure 2 are missing and have to be included – it makes no sense to go up and down if you want to understand the figure. I also recommend excluding some of the lines and keeping only the ones which show the effects mentioned on page 31237 starting at line 15 because this is not possible to identify at the current version of the figures – use colours for the different lines. Please also sort your days in the legend based on the v-values.

Figure 8: y-legend is wrong

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 31231, 2011.