

Interactive comment on “Complex experiment on studying the microphysical, chemical, and optical properties of aerosol particles and estimating the contribution of atmospheric aerosol to Earth radiation budget” by G. G. Matvienko et al.

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The manuscript describes a series of experiments systematically investigated aerosol microphysical, chemical and optical characteristics in Western Siberia by combination of ground based and airplane setups performed in different seasons of 2013. The data collected during the experiment are unique in its comprehensiveness for poorly explored areas of Siberia, therefore they can become the basis for future studies of aerosol contribution in radiation and climatic effects. Publication of the proposed

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manuscript would be useful for other researchers.

Some specific comments.

Please, correct two mistakes in manuscript title.

Abstract. I thing in sentence “. . . experimental values of direct and global solar radiation fluxes do not. . .” authors mean “total” but not “global” solar radiance.

Add scale in maps shown in Figs. 2 and 3.

Captions of Figs. 7 and 8 – not commented where aerosol properties were estimated.

Fig .9. The circles in e and f panels are described as wind at 75 m, but in caption as wind at altitude of 50 m. What is correct?

Captions of Figs. 11 and 12 – not commented where measurements were performed.

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