

Interactive comment on “Source-receptor matrix calculation for deposited mass with the Lagrangian particle dispersion model FLEXPART v10.2 in backward mode” by Sabine Eckhardt et al.

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For BC particles, settling plays a minor (insignificant) role. Therefore, to have a test case with more significant settling, we increased the diameter of the aerosol used in the study to $2 \mu\text{m}$. We performed an evaluation for concentration and dry deposition of these larger particles and added this information to the supplementary material. We added: "For BC used here, the settling only plays a minor role. To test the algorithm also for a substance for which settling is important we made a separate test case focusing on a $2 \mu\text{m}$ particle. The settling will influence the dry deposition velocity and the concentration. The differences between the forward and the backward simulation

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are on the same level as for the BC discussed above. The detailed evaluation can be found in S1."

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