

Interactive comment on “Wildfires in Northern Eurasia affect the budget of black carbon in the Arctic. A 12-year retrospective synopsis (2002–2013).” by N. Evangeliou et al.

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Received and published: 16 March 2016

Dear Dr. Gilgen, Thank you very much for pointing this problematic statement. I agree that we may underestimate the impact of BB in N. America that, in our study, originates from GFED. We will certainly re-formulate these sentences, as it seems we insinuate that the BB emissions estimated from FEI-NE are 100% valid/real. However, some recent top-down estimations of BC emissions suggest that the majority of underestimated emission sources is rather located in Eurasia (some originates from N. America, as well). These are BB sources, which in turn are underestimated in GFED, whereas some others are anthropogenic (mainly from gas-flaring as stated in Stohl et al., 2013) that have been poorly addressed.

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Interactive comment on Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2015-994, 2016.

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