

Interactive comment on “Modelling street level PM₁₀ concentrations across Europe: source apportionment and possible futures” by G. Kieseewetter et al.

Anonymous Referee #1

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General comments

This paper presents the method that has been developed within the GAINS model to calculate projections of PM₁₀ compliance in future years for airbase monitoring stations. This is an important paper because the results of this modelling have been used to inform the development of EU-wide air quality policy proposals.

One key limitation of this study is that it only provides concentration projections for monitoring stations for which data are available for 2009 and indeed only for a subset of stations for which various data criteria have been met.

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Specific comments

Page 18325 line 19. I am not clear how delta PM₁₀ has been defined or how this value is used in the calculations

Page 18330 Line 10. It is not clear whether these scaling factors of 8 and 4 have been applied to the domestic emission or not. Page 18326 line 19 implies that a method was derived to assign the residual to specific sources. Page 18330 Line 10 implies that the emission inventory was adjusted, so I am not clear what was done.

Interactive comment on Atmos. Chem. Phys. Discuss., 14, 18315, 2014.

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