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Interactive comment on “Light absorbing carbon in Europe – measurement and modelling, with a focus on residential wood combustion emissions” by J. Genberg et al.

Anonymous Referee #3

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This paper represents investigation of light absorption carbonaceous particles over Europe. The investigation combines modeling and measurement data, and takes into account the influence of different emission inventories. The paper is relatively well written and deserved publication in ACP after some minor improvements.

Section 3.1: The authors provide two references for the range of measured MAC values. The first one is a review paper and the second one, giving a much broader range, is a study representing a single site. This is confusing: how does a review paper end up a much narrower range than a single paper? Some explanation of the variability is needed.

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Page 9066, lines 20–26: Five factors for model-measurement differences are provided. The authors should mention that the factors i and v are not really factors that have anything to do with the model itself, but uncertainties in the model input data.

Section 3.3: Beside analyzing each location separately, the authors should also state something general about model-measurement comparison. For example, when looking at Figure 4, it seems that measured values have much larger variability than modeled ones. Any particular reason for this?

Conclusions: The authors summarize the main results. Do the authors have any specific recommendations for the future work?

Minor/technical issues

Page 9066, line 9: fossil sources? Maybe fossil fuel sources

The authors could check out the use of tense when reporting the results. In many cases, imperfect would be more suitable than present tense.

Interactive comment on Atmos. Chem. Phys. Discuss., 13, 9051, 2013.

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