

## ***Interactive comment on “The aerosol radiative effects of uncontrolled combustion of domestic waste” by John K. Kodros et al.***

### **Anonymous Referee #1**

Received and published: 9 May 2016

The paper makes a first estimate of the impacts of uncontrolled domestic waste combustion on atmospheric aerosol and the impacts on climate. This emission source is very rarely included in atmospheric aerosol models and this study is an important first step towards understanding the impacts on aerosol and climate. The manuscript is very well written and I suggest publication after the following very minor comments have been accounted for.

#### Minor comments

Page 3, Line 27. These simulations have a very coarse spatial resolution (4x50). The authors recognise this weakness.

Page 6, Section 3.1 The model evaluation using AERONET AOD demonstrates that including the waste combustion emission source does not degrade the model. The

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authors could consider using measured BC or OC mass concentrations from regions heavily impacted by waste combustion as an additional evaluation of the model.

Page 6, line 31: Suggest reword to remove the word “trend”.

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Interactive comment on Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-104, 2016.

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