

Interactive
Comment

Interactive comment on “Assessing the regional impact of Indonesian biomass burning emissions based on organic molecular tracers and chemical mass balance modeling” by G. Engling et al.

Anonymous Referee #1

Received and published: 27 March 2014

This is a very good paper presenting the influence of biomass burning on regional air quality in Southeast Asia. The authors address a need for identifying suitable organic molecular tracers for peat fires in Indonesia, considered as a major source of smoke haze in the region, as well as quantifying its contribution to the atmospheric PM loading. All sections of this manuscript are scientifically sound and interesting to read. I only have a few minor issues to address.

Specific Comments: - Page2780Lines8-9: The authors might consider using 'ends' instead of 'starts'. Of course for back trajectories the sampling point is the releasing point for calculations, but still the trajectory ends at that point.

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- Page2782Line24: It might be useful for the reader if the authors were to explain what 'shorter' denotes. This could be discussed more in detail by referring Hennigan's studies on levoglucosan degradation in the atmosphere.

Minor editorial revisions: - Page2782Line22: 'Hennigan' instead of 'Hannigan'. - Page2785Line6: 'Beside' instead of 'Other than'. 'Other than' only when the copper discussion comes earlier than that on Al, Fe and Ti. - Page2780Line7: remove 'very'. - Page2782Line21: remove 'strong'.

Interactive comment on Atmos. Chem. Phys. Discuss., 14, 2773, 2014.

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