

Interactive comment on “Global fire emissions and the contribution of deforestation, savanna, forest, agricultural, and peat fires (1997–2009)” by G. R. van der Werf et al.

Anonymous Referee #3

Received and published: 2 September 2010

1. Abstract:

line 18: I would add "Globally" the the sentence currently begins with "Emission" as "Globally, emission during 2000-2007..." and modify the sentence in line 21 as "Regionally, emissions during 2002-2007 were highly variable..."

Also in abstract, I don't understand why the 2002-2007 period was singled out, even though the paper deals with 1997-2009 period.

2. Introduction: This section should be significantly shortened to briefly summarize previous studies (instead of reviewing) and highlight the new approaches/improvements in this study. And, most importantly, it should point out that this is the GFED version 3,

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and mention what improvements it has over GFED version 2. This can provide readers with a context of this work.

3. Tracer emissions: The emission factors from Andreae and Merlet (2001) with some recent updates were used to scale the carbon emission to the tracer emissions (other than CO₂). However these emission factors do not vary with soil moisture, RH, and other environmental conditions. The uncertainties associated with tracer emissions should at least be discussed.

Interactive comment on Atmos. Chem. Phys. Discuss., 10, 16153, 2010.

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