

## ***Interactive comment on “Global fire emissions estimates during 1997–2015” by Guido R. van der Werf et al.***

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*We greatly appreciate the comments of the reviewer, please find below our response to the issues raised*

Reviewer: A link to a file that includes the updated emission factors is provided; however, it would be useful to include this information in the manuscript (A table would be a useful addition).

*Response: We have added the Table with emission factors in the revised manuscript*

Reviewer: Section 4.3 (Page 13, lines 16-22): this section is talking about comparisons of measurements with GFED4 and GFED3 modeled fuel consumptions. It is often unclear which is being compared. For example, line 16 states: Fuel consumption in

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Savannas and other regions with herbaceous fuels is lower in GFED4. . . lower than measure values? Lower than GFED3? (the next sentence states that it is lower than GFED3 estimates). I just suggest more clearly defining what you are comparing in this section.

*Response: in the revised section we have now clearly outlined whether the comparisons were made against GFED3 or against measurements*

Reviewer: Editorial comments: When “which” is used, a comma should precede it. For example, on page 13, line 30-31

*Response: We have added a comma wherever “which” introduced a non-restrictive phrase.*

Reviewer: Page 14, line 6: I don’t think it’s necessary to comment that the “C” emissions are now reported in emissions of CO<sub>2</sub>. This is confusing.

*Response: This section was written partly to serve the mitigation community where CO<sub>2</sub> mass units are much more frequently used than the carbon units. We therefore added the sentence “Note that in this section we refer to C emissions in CO<sub>2</sub> mass units rather than the C mass units used in the rest of the paper.” This was actually done to prevent confusion and we prefer to keep this sentence in the text.*

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