

Interactive comment on “Branch-level measurement of total OH reactivity for constraining unknown BVOC emission during the CABINEX (Community Atmosphere-Biosphere Interactions Experiments)-09 Field Campaign” by S. Kim et al.

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We appreciate the anonymous referee #1's comments on the paper. We revised our manuscript according to the suggestions and summarized what we specifically revised in the manuscript below.

- Table 1: The column headings are confusing. There are two headings named “abundances”

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In the revised manuscript, we clarify what each column indicates in the table caption

- Table 1 2: These tables have the same information (just different plant species), so maybe combine them.

We combined two tables into one table.

- The captions for Figures 3, 4, 5, 7a are very long and complicated. There also seems to be some repetition between the words inside and outside of the parentheses. These captions should be simplified.

We rewrote the captions to reduce redundancies and clearly convey information for the plots.

- Figure 3 has the x-axis time in terms of a 24-hour clock, but the other figures are based on a 12-hour clock. Be consistent.

We corrected the time scale for consistency

- Figure 4: Is this simply a close-up of the middle portion of Figure 3? I assumed “red oak” is the same as “oak.” The caption should reflect the fact that Fig 4 3 are related or make it Figure 3a and 3b. Be cautious of the darkness/shading created by the vertical lines so that it does not obscure the data.

We clarified it in the figure caption of Figure 4.

- The section numbering is confusing because it seems like the entire paper is categorized under the introduction (section 1).

That was a mistake when the publisher prepared the manuscript. We will make sure this will not happen for the final version.

- When line 21-22, “and the ozone and VOC scrubbed air was introduced,” is first read, it sounds like ozone was added with the VOC scrubbed air. It gave me pause and I had to re-read it to realize that the air was scrubbed of ozone.

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We clarified it in the revised manuscript

- A little more information about the branch enclosure would be helpful. What type of Teflon enclosure, etc. The authors can simply reference another description of it, since it is not a focus of the paper.

We added a reference, describing the enclosure configuration in the revised paper.

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 7781, 2011.

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