

## ***Interactive comment on “Overview of the Focused Isoprene eXperiments at California Institute of Technology (FIXCIT): mechanistic chamber studies on the oxidation of biogenic compounds” by T. B. Nguyen et al.***

**Anonymous Referee #2**

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### **General Comments:**

This paper provides a summary of the focus, experiments, measurements, and initial results from the FIXCIT laboratory study conducted at Caltech in 2014 to investigate the atmospheric chemistry of isoprene and other selected biogenic compounds. The campaign was meant to complement the field studies conducted earlier in the Southeastern US in 2013. The manuscript describes in adequate detail the experiments conducted, their justification, the facilities and instruments employed, participants, problems en-

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countered, and results to date and their implications. The paper is well written and concise and provides a useful starting point for reading the many future publications likely to result from this large and important study. In my opinion the paper should be published in ACP essentially as is, although I have a few very minor comments.

### **Specific Comments:**

1. Page 21617, line 1: Both carbonyl and non-carbonyl products are produced from Criegee intermediates.
2. Section 2.1 or elsewhere: I did not find any mention of how the chamber volume was regularly measured in the study. This depends on how full the Teflon bag is.

### **Technical Comments:**

1. Page 21614, line 3: Should this be “comprised” instead of “comprising”?
2. Page 21619, line 22: I believe “which” should be capitalized in question 1.
3. Page 21620, line 13: I believe “what” should be capitalized in question 7.

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Interactive comment on Atmos. Chem. Phys. Discuss., 14, 21611, 2014.