

Interactive comment on “Quantifying the impact of BOREal forest fires on Tropospheric oxidants over the Atlantic using Aircraft and Satellites (BORTAS) experiment: design, execution and science overview” by P. I. Palmer et al.

Anonymous Referee #1

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This paper provides an overview of the BORTAS experiment. Papers such as these should satisfy two basic functions. One is to provide a service to the reader who is looking for broad information on the project and an idea of companion papers that are most relevant to their interests and offering deeper detail. The other is to catalog important information of common interest to the project, thus providing the writers of the companion papers with a reference to avoid excessive and redundant descriptions of the project. This manuscript does a good job on both accounts.

I only have a few errata that the authors need to address before publication.

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1. Figure 3e is incorrect (currently same as figure 3d)
2. In Figure 7, the black diamond referred to in the text and figure caption is not readily apparent. It would help to have an arrow pointing it out. It would also help to show a line along the axis of the occultation since it is not a simple point measurement.
3. In Table 2, the method for measuring speciated reactive nitrogen is listed as "Light Induced Fluorescence (LIF)" but I assume that thermal dissociation is also involved.

Interactive comment on Atmos. Chem. Phys. Discuss., 13, 4127, 2013.