

## ***Interactive comment on “Observations of oxidation products above a forest imply biogenic emissions of very reactive compounds” by R. Holzinger et al.***

**R. Holzinger et al.**

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We appreciate referee #1's second comment and we agree that it would be helpful to share more information from the chamber experiments, which clearly showed that the OX<sub>x</sub> products are not primarily emitted from the local vegetation. We will therefore add enough information to tell the reader we can exclude direct emissions as the source of these compounds, however, we will not present all the results from our chamber measurements, because this information is beyond the scope of the current manuscript, and will be the focal point of a separate manuscript including GC/MS, GC/FID, and PTR-MS data.

In the revised version of the manuscript the following paragraph will be included (at p5351, line 6):

We can exclude the possibility that these compounds we are calling oxidation products came from direct plant emissions based on chamber experiments that were also performed in summer 2003. Branches of the most abundant plant species were enclosed in a teflon chamber and the chamber air was flushed completely approximately once per minute. While mixing ratios of primary emissions (e.g. methanol, monoterpenes, sesquiterpenes, MBO, etc.) were dramatically enhanced in the chamber to multiple times the concentration in ambient air, mixing ratios of oxidation products like OX02 (Fig. 2d) did not exhibit significant increases inside the chamber.

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Interactive comment on Atmos. Chem. Phys. Discuss., 4, 5345, 2004.

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