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Atmospheric
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# *Interactive comment on* "In-situ ambient quantification of monoterpenes, sesquiterpenes, and related oxygenated compounds during BEARPEX 2007 – implications for gas- and particle-phase chemistry" *by* N. C. Bouvier-Brown et al.

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We thank Thomas Karl for pointing out the alternative ozone removal technique detailed by R. Arnts. We had hoped to compare the total amount of sesquiterpenes to that of monoterpenes between the GC-MS and the PTR-MS during BEARPEX. Unfortunately, the PTR-MS, as deployed during BEARPEX 2007, did not quantitatively measure sesquiterpenes at the mixing ratios present during the campaign. As suggested, we clarified our statement from section 4.2 about the reason for discrepancy between branch enclosure and ambient measurements. The discrepancy must be due to more rapid chemical losses of the reactive semi-volatile sesquiterpene compounds for 2 reasons: 1) rapid loss via oxidation and 2) loss of some sesquiterpenes within the sampling and analysis system.

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