

Interactive comment on “Emissions of isoprenoids and oxygenated biogenic volatile organic compounds from a New England mixed forest” by K. A. McKinney et al.

Anonymous Referee #2

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The paper describes measurements of emission fluxes of biogenic volatile organic compounds (BVOCs) from a deciduous forest located in the northeast United States. Proton transfer reaction mass spectroscopy was used to measure (BVOCs) and fluxes were determined using the disjunct eddy covariance method. Quantified BVOCs include: isoprene, monoterpenes, methanol, acetone, methylethylketone (possibly), and other BVOCs that were not positively identified. The measurement data was compared to existing light and temperature dependent emission algorithms in order to both test the algorithms and to better understand what controls BVOC emissions.

The manuscript is very well written and the experiment is thoroughly explained. Short-

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comings, such as the inability to explicitly identify some measured compounds, are fully discussed and the authors do not try to make any claims that the data does not support. The authors do a good job using past work described in the literature to place the presented measurements in context. The data represents BVOC emissions from an ecosystem for which few BVOC flux measurements exist. The data should be useful to others trying to understand their own flux measurements or trying to improve BVOC modeling efforts. I recommend that the manuscript is accepted for publication in its present form.

Interactive comment on Atmos. Chem. Phys. Discuss., 10, 28565, 2010.

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