

## ***Interactive comment on “Vertical advection and nocturnal deposition of ozone over a boreal pine forest” by Ü. Rannik et al.***

Ü. Rannik et al.

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We agree with the comment that definition of scalar conservation equation via molar mixing ratio would help to avoid many complications and misunderstandings in most of cases. Therefore we will follow the suggestion by A. Kowalski and use in revision the conservation equation (over control volume) as defined for mixing ratio with respect to dry air. However, we point out that depending on instrumental properties the additional term(s) appearing in conservation equation of scalar density might not be avoidable and are treated frequently as correction(s). This was done also (correctly) in our manuscript, although the conservation equation was not presented thoroughly.

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Interactive comment on Atmos. Chem. Phys. Discuss., 8, 18437, 2008.

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