Biogeosciences Discuss., 7, C1144–C1145, 2010 www.biogeosciences-discuss.net/7/C1144/2010/

© Author(s) 2010. This work is distributed under the Creative Commons Attribute 3.0 License.



## Interactive comment on "Contribution of advection to the carbon budget measured by eddy covariance at a steep mountain slope forest in Switzerland" by S. Etzold et al.

## S. Etzold et al.

sophia.etzold@ipw.agrl.ethz.ch

Received and published: 27 May 2010

## General Remarks

We thank all three referees and Andy Kowalski for very valuable comments and suggestions on the manuscript. Main criticism from the referees was a complete derivation of the mass balance equations used and description of the introduced simplifications, as well as the use of the CO2 density gradient rather than the CO2 mixing ratio for the calculation of advection. We will change the revised manuscript accordingly (see also detailed responses). Furthermore the description of the vertical measurement profile seemed apparently to be confusing. We will make an effort to clarify this.

C1144

Detailed responses to the remarks of referees 1 to 3 and to the comment by A.Kowalski are included in the supplement.

Please also note the supplement to this comment: http://www.biogeosciences-discuss.net/7/C1144/2010/bgd-7-C1144-2010-supplement.pdf

Interactive comment on Biogeosciences Discuss., 7, 1633, 2010.