

## ***Interactive comment on “Carbon storage versus albedo change: Radiative Forcing of forest expansion in temperate mountainous regions of Switzerland” by J. Schwaab et al.***

### **Anonymous Referee #1**

Received and published: 18 August 2014

The study's national level investigation into net radiative forcing of forest change is a great contribution to the field. The synthesis of different data sources is well thought out and well presented (especially the many assumptions required by such a synthesis). I greatly appreciated the inclusion of the sensitivity analysis.

My only requested revision of any weight is at page 10133 line 26 through page 10134 line 2. The authors state that "seasonal variation of the albedos of different land-use classes is very similar". Since the statement is in support of a central assumption of the methods, some values or a citation would be helpful.

A few minor corrections: Page 10126 line 11 - The text reads "BIOGEO PHYSICAL

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processes tend to counter the BIOGEOPHYSICAL effect". Should one of the "biogeophysical"s be "biogeochemical"?

Page 10126 line 21 - as above "between BIOGEOPHYSICAL (mainly albedo) and BIOGEOPHYSICAL effects"

Page 10130 line 14 - Clarification needed, "and that of needles/leaves on (Perruchoud et al., 1999)." Were the authors intending the this to read: "needles/leaves is based on Perruchoud et al. (1999)."

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Interactive comment on Biogeosciences Discuss., 11, 10123, 2014.

**BGD**

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