

Interactive comment on “Soil erosion by snow gliding – a first quantification attempt in a sub-alpine area, Switzerland” by K. Meusburger et al.

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We would like to acknowledge the reviewer for appreciating our efforts to highlight the uncertainties and his insight that also preliminary results may be of significant interest to HESS readership. Here a short reply to some of the minor comments is presented. A detailed list of changes will be provided after the closure of the discussion.

"Table 2: 137Cs values for pw1 and pw2 are probably interchanged (compared to table 3)."

The 137Cs values in table 3 will be corrected accordingly to this wise remark.

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"Fig 5: It is not clear if the data are plotted accurately. Within the data, there is no value found for 137 Cs-RUSLE at -7 and snow glide distance of A2N should be 28cm according to table 1. Regression lines should be described."

Due to the interchanged value in table 3 the -7 data point did not appear in Fig.5. We did not plot A2N in Figure 5 since we did not observe any snow glide event for this site in 2012/2013.

"Fig 8: It seems that winter precipitation of 2009/10 was used instead of using long-term average winter precipitation as mentioned. Using formula 8 the hayfields should reach distances longer than 300cm applying 430mm?"

We used the long-term winter precipitation for this graph and the map (Fig.7). Values illustrated in Fig. 8 do not refer to our experimental sites but to mean values (\pm SE) for the study site (Fig.7). Consequently, values in Fig.8 are incomparable to values in Fig.6 as minima and maxima are not shown.

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