

Interactive comment on “Characterisation of the melting layer variability in an Alpine valley based on polarimetric X-band radar scans” by Floor van den Heuvel et al.

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We thank the anonymous referee for his insightful and helpful comments. Our responses are numbered in accordance with the referee's remarks:

Major comments:

(1) Several analyses were performed in this respect, including the analysis based on data extracted from a DEM along the transects of the RHI scans. The results of this analysis are now displayed in Figure 13, and described on page 15 lines 1-7.

(2) The figure has been modified to show both selections in a single figure so that it

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now comprises two panels instead of four. The text and the axes labels have also been enlarged. The figure legend and the text on page 12 lines 27-32 have been modified accordingly.

Minor comments:

(1) X-labels have been inserted for these figures and in accordance with the comment from Referee #2, changed to “Spatial scales” for the other figures. To enhance readability, the scales are now given in km rather than m for all figures except figure 5.

(2) The previous label of Figure 7 was indeed confusing. A legend has been added within the figure and the figure label has been changed to: “Box plots illustrating the effects of median filtering, de-trending and tapering on the original melting layer tops.” Which should facilitate the interpretation of the figure.

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