

## ***Interactive comment on “A statistical approach to refining snow water equivalent climatologies in Alpine terrain” by S. Jörg-Hess et al.***

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We would like to thank C. Marty for his comments and the interest in our work.

P 4243 L16: The reference Latenser and Schneebeli 2003 was chosen in this context, because they state the importance of high-quality long-term snow datasets for climate modelling and their importance as reference for annual runoff prognoses in their introduction.

P 4246 L22-26: We will specify in chapter 2.2 that ANETZ and ENET have been merged to SwissMetNet and mention the manual measurements provided by MeteoSwiss.

P 4246 L27-L28: With the extend of measurement sites in Switzerland we refer to an  
C1578

extend in elevation range. While around 1970 the only few measurement sites located higher than 2000 m asl. have been available, 30 years later this number has increased to about 60. This will be clarified in the text.

P 4249: Now reads as suggested by C. Marty.

P 4251: We will consider the relative RMSE in a revised version.

Table 3: ‘BI’ is the abbreviation that will be used consistently for the station Binn.

Figure 10: Unit SWE[mm] will be added to the plot.

Figure 14: The runoff is from the Rhine River gauge station in Andelfingen. This will be specified in the figure caption.

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