

## ***Interactive comment on “Temperature and precipitation signal in two Alpine ice cores over the period 1961–2001” by I. Mariani et al.***

**I. Mariani et al.**

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Reply to Anonymous Referee #2

We thank the reviewer for the valuable comments and the suggestions.

- 1) The target of this paper was indeed to compare the records on an annual scale. We think that a more detailed study on subannual scale involving the difficult task of attributing seasons in the ice core record is out of scope of this manuscript. A comment will be added accordingly.
- 2) We partly agree with the reviewer. We wanted to make the point that one has to be cautious when attempting a temperature reconstruction in areas where variability in precipitation seasonality is high as in the case of Grenzgletscher. We did not generalize

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since there are definitely cases such as the Fiescherhorn with a strong correlation between  $\delta^{18}\text{O}$  and unweighted temperature. We will try to better clarify this in the revised version.

3) See comment 1)

4) and detailed comments We agree with the suggestions and will provide more information accordingly.

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Interactive comment on Clim. Past Discuss., 8, 5867, 2012.