

Interactive comment on “The Rofental: a high Alpine research basin (1890 m – 3770 m a.s.l.) in the Ötztal Alps (Austria) with over 150 years of hydro-meteorological and glaciological observations” by Ulrich Strasser et al.

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Review of The Rofental: a high Alpine research basin (1890 m – 3770 m a.s.l.) in the Ötztal Alps (Austria) with over 150 years of hydrometeorological and glaciological observations.

page 1 line 27: "INARCH" - Please give some context to, or define INARCH... or cite it maybe. GEWEX INARCH project (<https://words.usask.ca/inarch>);

page 2 line 4: This whole paragraph is one sentence. I suggest splitting it up here to

C1

make it easier to read. split this sentence up. "... high Alpine environmens. These research institutions are the ..."

page 2 lines 12-13. put the acronyms after the glacier names.

page 2 lines 13-14. remove "further on"

page 2 line 15. define Vent as a town or village.

page 2 line 17-18: "... become a core of..." and "...as such prolonging... (IHP)..." these need rewritten.

page 4 line 4: remove "formed with"

page 5 figure 3 caption: replace "evolutions" with "mean annual temperature"?

page 5 line 11: Replace "Landuse" with "Landcover".

page 7 line 15: should fore field be one word?

page 8 lines 8-9: update if possible with a doi.

page 10 line 17: remove the word "yet" and "as"

page 10 line 20: replace "of" with "from".

page 10 line 20: replace "which" with "that".

page 10 line 23: how do you denote this in the dataset when instruments are completely snow covered?

page 15 line 8: is "exemplarily" the right word?

page 15 line 17: replace "origins in" with "originates as"

page 16 figure 6: perhaps include units on a y axis label instead of just in the caption.

page 17 throughout: If this is Lidar, you can just say Lidar and you don't have to define it at this point.

C2

page 19 table 8 caption: seems like this should go in the acknowledgements, not a table footnote.

page 19 acknowledgements: I would include specific grants and grant numbers here. (Personal preference)

Please also note the supplement to this comment:

<https://www.earth-syst-sci-data-discuss.net/essd-2017-85/essd-2017-85-RC1-supplement.pdf>

Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2017-85>, 2017.