

## ***Interactive comment on “Temperature variability and thermal offset in steep alpine rock and ice faces” by A. Hasler et al.***

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Received and published: 24 March 2011

### General comments

This paper is very relevant and presents new data for high latitude permafrost. I appreciate the attention toward temperature variability in relative close proximity. More papers like these are needed for all environments.

### Specific comments

Where possible I would enjoy reading shorter sentences, because they tend to make a text easier to read. A number of times I had to read sentences multiple times. The use of the term thermal offset may not be well received by some researchers, but I can see the resemblance with its traditional use and it was discussed early in the paper and

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that is good.

Technical correction

P726 L16 numbers for sensor locations are not complete or specific, a better description of sites included and excluded is needed. P727L2 would be a good place to do this for all locations indicated in figures that are not discussed further.

P726 L18 borehole without the 's'

P730 L19-27 the discussion on Utime is not clear, please revise this section.

P731 L6 equation 1 is not correct

P732 L19 'on' needs to be 'one'

P734 L10 TO is an annual value and there does not seem to be data to support the statement for 2010.

P736 L7 'expect' change to 'except'

P738L13 'effects' needs to be 'effect'

P738L14 'an' needs to be removed

P738L23 'the' can be removed

P742 in table missing site numbers could be explained

P743 Utime needs to be explained better

P744 Numbers in the figure are not referred to in the text or vice versa

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Interactive comment on The Cryosphere Discuss., 5, 721, 2011.

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