

Interactive comment on “The new Landsat-derived glacier inventory for Jotunheimen, Norway, and deduced glacier changes since the 1930s” by L. M. Andreassen et al.

Anonymous Referee #1

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This paper detailing the methods and results from a Landsat derived glacier inventory provides a well documented and illustrated example of contemporary techniques in glacier monitoring and comparison with previous methodology. It details some of the major challenges and successes which can be used by others to apply to their geographic regions. The figures are notable for their clarity and set a standard that can be repeated in future studies.

As with previous comments, Tables 1 and 2 would benefit from columns indicating % change so as to be area-independent. Some clarification is needed in section 5.1 on the generation of ‘mean aspect’: this cannot be done using azimuth as the mean value

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would always tend to south (e.g. the mean of 0 and 360 is 180)- perhaps the authors intend this to be the mode instead? They indicate that the northern directions (NW, N and NE)dominate, but fig. 4b indicates this is true only for N and NE.

There are several suggestions for grammatical changes e.g. removing adjectives such as 'very' and 'quite', but I will send these separately to the editor/authors as it is too time-consuming to try and describe them in this format / arena.

Interactive comment on The Cryosphere Discuss., 2, 299, 2008.

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