

## ***Interactive comment on “Measured and modelled sublimation on the tropical Glaciar Artesonraju, Perú” by M. Winkler et al.***

### **Anonymous Referee #1**

Received and published: 29 September 2008

#### General Comments

The paper attests the importance of sublimation for the mass balance of glaciers in tropical areas and therefore is a beneficial contribution to The Cryosphere. Measurement of sublimation and the subsequent model parameterization is described comprehensible, facilitated through the structure of the paper. Nevertheless additional figures and tables would be helpful (see specific comments). As measurements of sublimation are rare more details to the 'extensive error estimation'; would be good for assessing the measurement results. The model and its results are clearly described and analysed. Good luck for your further work.

Specific comments:

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p.741, In. 8: A map of the test site including the location of the weather stations and the measurement points would be useful.

p.747, In 13: Could you quantify 'Enhanced ventilation plays an important role as well'?

p. 747, In.14f: What is meant by 'an extensive error estimation'? More details would clarify this point.

p.747: A table with the results would be helpful.

p. 748 f: The deduced parameters could be summarized in a table. Information about sensitivity could be added.

Technical comments:

p. 744, In. 24: orthography: 30-miN

p. 744, In. 24: orthography: were not where

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Interactive comment on The Cryosphere Discuss., 2, 737, 2008.

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