



Interactive comment on “Glacier mass balance reconstruction by sublimation induced enrichment of chemical species on Cerro Tapado (Chilean Andes)” by P. Ginot et al.

P. Ginot et al.

Received and published: 30 November 2005

Answer to specific comments:

The abstract will be reworded in order to present the climatic reconstruction potential of this ice core.

p.172, line 10: The correlation between sublimation and chloride concentration is well described in [Ginot et al, 2001]. These observations came from a surface snow experiment performed during 2 weeks in the dry season 1999. The assumption used for the ice core interpretation is that the phenomenon observed during the strongest sublimation period is the same all over the summer time.

p.175, line 12: I'm agreeing with the comments. Our major difficulty was to estimate a mean fresh snow (winter snow) chloride concentration on the drilling site. With only two

field campaigns in 1998 and 1999, and without automatic snow sampling installation during winter time, this statistical approach was the best solution.

Figure 4: Some additional explanations may be added.

Figure 5: We choose 25 bins in order to cover the best concentration distribution according to the number of samples.

I want to thank Paul Mayewski constructive comments.

Interactive comment on Climate of the Past Discussions, 1, 169, 2005.

Full Screen / Esc

Print Version

Interactive Discussion

Discussion Paper