

***Interactive comment on “Sensitivity of basal conditions in an inverse model: Vestfonna Ice-Cap, Nordaustlandet/Svalbard” by M. Schäfer et al.***

**M. Schäfer et al.**

[martina.schafer@ulapland.fi](mailto:martina.schafer@ulapland.fi)

Received and published: 25 April 2012

Dear Scientific Editor,

We are very grateful to the two reviews which allowed us to improve the quality of the paper consequently by enhancing and correcting mainly the mathematical description of the inverse method.

All suggestions have been taken into account, in the supplement we detail how we dealt concretely with the different suggestions and requests for correction. With respect to the question about a test calculation on a synthetic 3D case with a known solution, we suggest to add some more details and results as annex or supplementary material to

C383

the paper if this is desired and not making the paper unnecessarily too long and heavy. Also, the modifications from the earlier version of the paper highlighted in colour are included in the supplement (low resolution, thus poor figure quality).

Sincerely yours,

Martina Schäfer

Please also note the supplement to this comment:

<http://www.the-cryosphere-discuss.net/6/C383/2012/tcd-6-C383-2012-supplement.pdf>

---

Interactive comment on The Cryosphere Discuss., 6, 427, 2012.