

***Interactive comment on “A particle based
simulation model for glacier dynamics” by
J. A. Åström et al.***

J. A. Åström et al.

timo.i.riikila@student.jyu.fi

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We wish to thank the referee for a very detailed report on our manuscript. Our response to all questions and comments following the order in which they were given in the referee report can be found in the attached PDF-document. As both referees are requesting a very detailed description of the model, we suggest that we add a model-description appendix to the paper. If all the technical details requested by the referees were to be answered in the text itself it would make reading of the paper very hard for non-experts when it comes numerical simulations of this kind. Jan Åström, CSC

Please also note the supplement to this comment:

<http://www.the-cryosphere-discuss.net/7/C607/2013/tcd-7-C607-2013-supplement.pdf>

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Interactive comment on The Cryosphere Discuss., 7, 921, 2013.

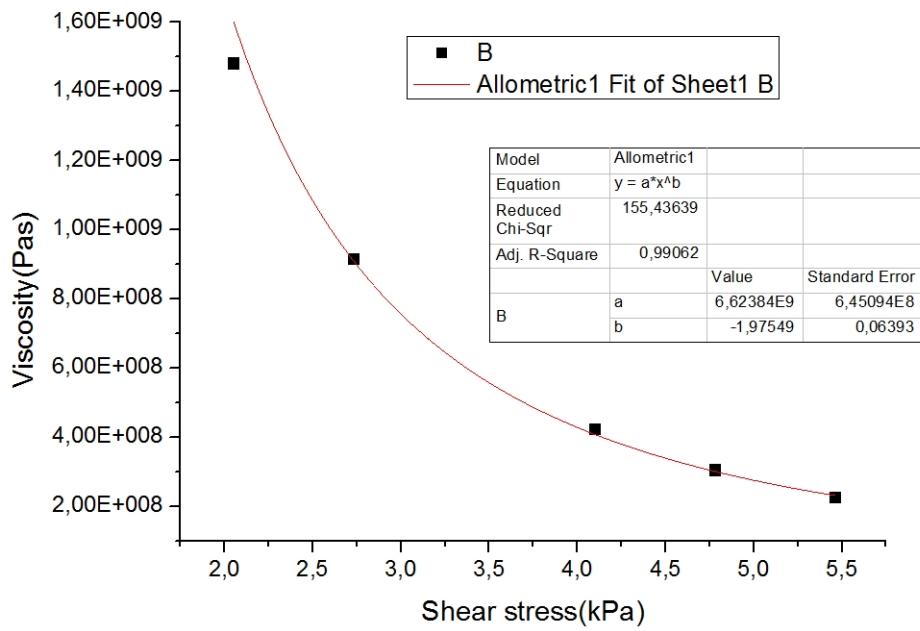


Fig. 1. A numerical 'experiment' to test the model viscosity as function of shear stress. For computational reasons the pre-factor is set to a value much smaller than that of ice.

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