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Interactive comment on “Modelling the transfer of supraglacial meltwater to the bed of Leverett Glacier, southwest Greenland” by C. C. Clason et al.

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Just a short question: what is the rationale for adopting the value (Appendix B)

$A = 1.6 \times 10^{-15} \text{ s}^{-1} \text{ kPa}^{-3}$ (Paterson, 1994).

Paterson's values are considerably higher than useful for ice flow modeling, and have been corrected to one third by Cuffey and Paterson (2010).

Also comparing ice dynamical modeling with measurements from Greenland [1] yields a satisfactory agreement with the Cuffey and Paterson (2010) values. So, a good rationale should be given for adopting outdated values, or better, the new values should

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be used.

[1] <http://www.igsoc.org/journal/60/222/t13J196.html>

Best regards

Martin Lüthi

Interactive comment on The Cryosphere Discuss., 8, 4243, 2014.

TCD

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