The Cryosphere
Discussions

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Interactive comment on "On the substantial influence of the treatment of friction at the grounding line" *by* O. Gagliardini et al.

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I wrote:

'Does the figure refer to

$$\int (\sigma_{ij}(LF) - \sigma_{ij}(FF))dS$$

or

$$\int \sigma_{ij}(LF)dS - \int \sigma_{ij}(FF)dS$$

I assume the first, but the wording could also mean the second - then the total traction at the bed (plus some stress at $x = 0$?) balancing the total gravitational force, which is the same in all cases because the geometry is imposed.'

I forgot the modulus signs in the first integral, so the expressions end up the same. I should have written

'Does the figure refer to

$$\int |\sigma_{ij}(LF) - \sigma_{ij}(FF)| dS$$

or

$$\int \sigma_{ij}(LF) dS - \int \sigma_{ij}(FF) dS?$$

Interactive comment on The Cryosphere Discuss., 9, 3475, 2015.