

Interactive
Comment

Interactive comment on “Mechanical effect of mélange-induced buttressing on embayment-terminating glacier dynamics” by D. Seneca Lindsey and T. K. Dupont

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Received and published: 16 November 2012

I should clarify the comment that I made regarding ice mélange thickness. In winter, it can be difficult to identify the terminus of Jakobshavn Isbrae because there is a gradual transition from glacier to mélange (Fig. 2 in Amundson et al., 2010). However, this transition occurs over a span of about a kilometer. Farther down fjord the mélange looks pretty similar to what it looks like in the summer time. Therefore stating that the mélange is 20% of the glacier thickness is probably only conservative for the portion of the mélange that is immediately adjacent to the terminus – and not for the entire length of the mélange (15 km in your model).

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6, C2216–C2217, 2012

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