Interactive comment on “Combining damage and fracture mechanics to model calving” by J. Krug et al.

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In this paper, we use linear elastic fracture mechanics in order to compute the stress intensity factor describing the ability for a pre-existing crevasse to propagates downward into the ice. This propagation is validated using a criterion for the initiation of propagation, and another for the arrest of the propagation.

After submitting this paper, we noticed a mistake concerning the formulation of the arrest criterion. Such an error would necessarily lead to a wrong representation of the physics occurring, and a misleading evaluation of the calving processes.

We are correcting the code and recomputing the simulations. An updated and correct version will be resubmit in the best delay.

Interactive comment on The Cryosphere Discuss., 8, 1111, 2014.