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Sensitivity of centennial mass loss projections of the Amundsen basin to the friction law

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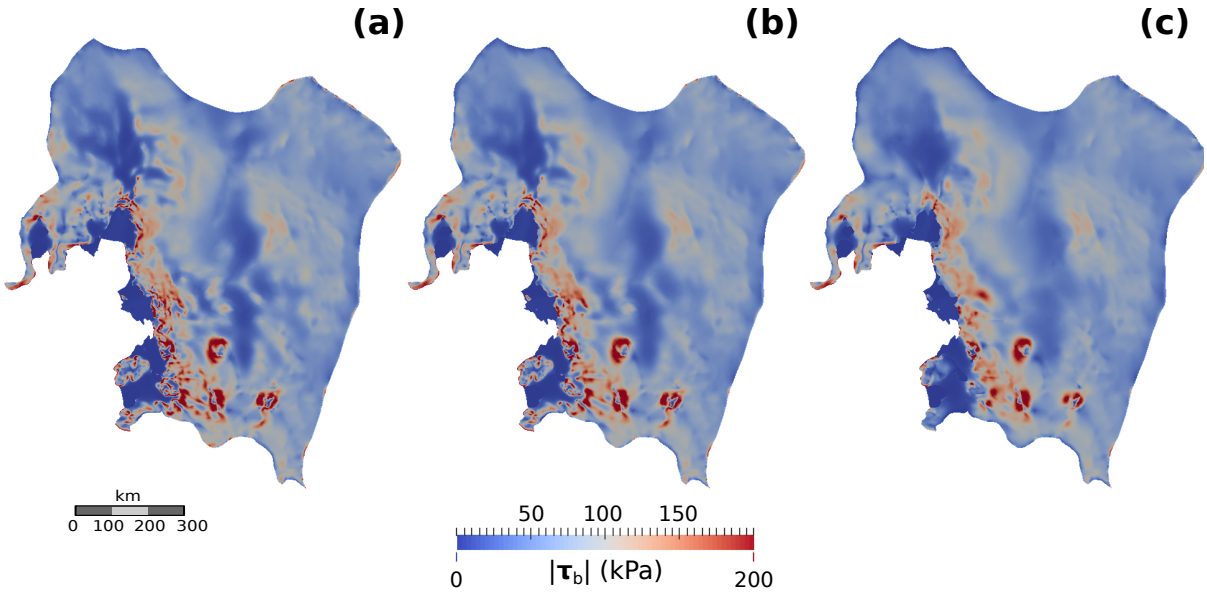

Figure S1. Norm of the basal shear stress field $\boldsymbol{\tau}_b$ after inversion for the inferred states (a) $I_{R_{\gamma,\infty}}$, (b) $I_{R_{\gamma,100}}$ and (c) $I_{R_{\gamma,1}}$.

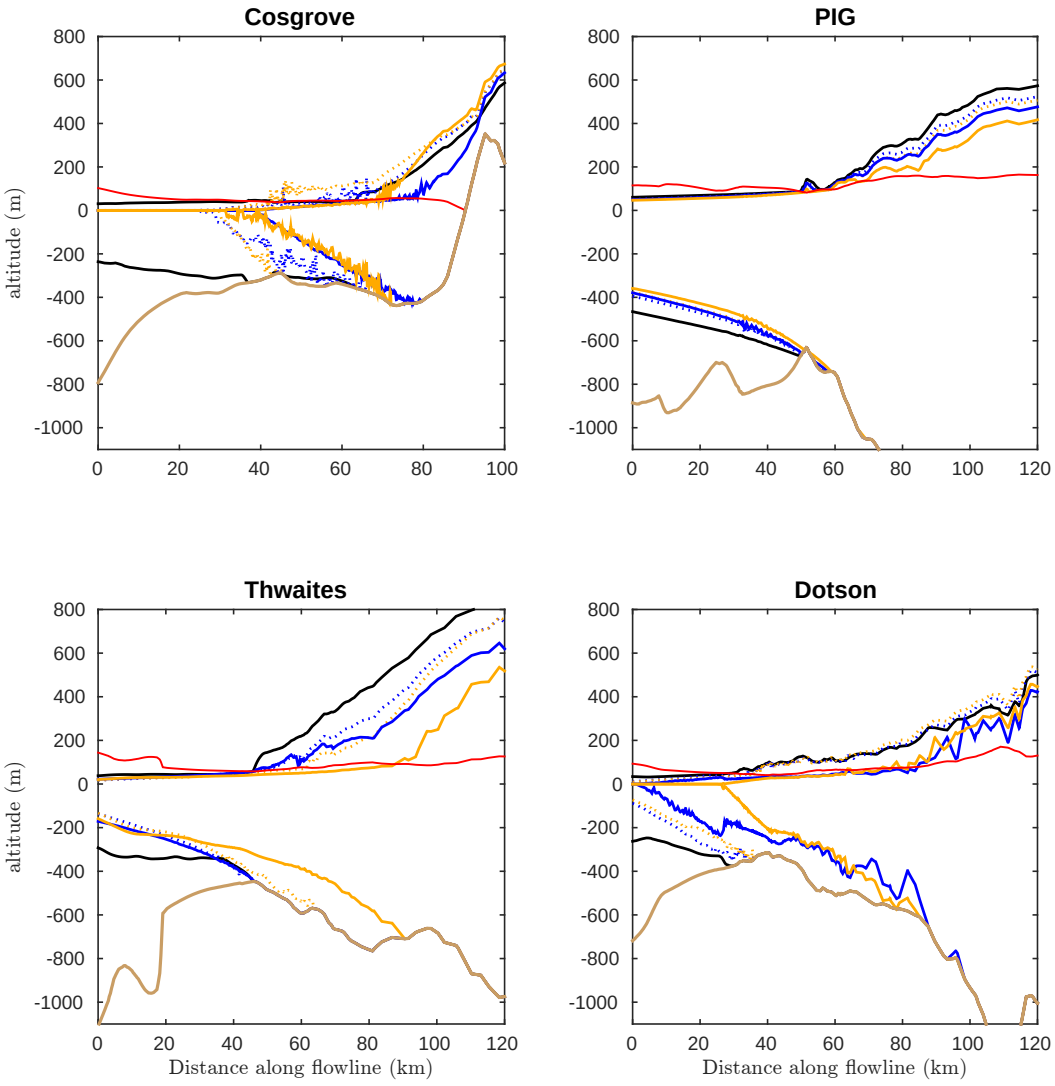

Figure S2. Ice-sheet profiles obtained for the inferred state $I_{R_{\gamma,100}}$ at $t = 0$ a (black solid line), $t = 55$ a (colored dotted line) and $t = 105$ a (colored solid line) of EXP_ABMB with the linear Budd law (orange) and the non-linear Budd law (blue), along the flowlines reported in Fig. 8. The solid light brown line is the bed elevation. The red solid line is the flotation altitude z_f, given by $z_f = (1 - \rho_w/\rho_i)b$.