Supplement of

Simulated retreat of Jakobshavn Isbræ during the 21st century

Xiaoran Guo et al.

Correspondence to: John C. Moore (john.moore.bnu@gmail.com)

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**Supplementary information**

![Figure S1. A) Velocity discrepancy (velocity from inversion - observed) and B) the observed velocity field (Joughin et al., 2010).](image)

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![Figure S2. Profiles of surface elevation during the initialization procedure (section 2.3) step 3.](image)

Figure S2. Profiles of surface elevation during the initialization procedure (section 2.3) step 3. Black solid line and black dashed line show the known profiles taken in the 1990s (Bamber et al., 2001) and 2010 (Gogineni et al., 2012) respectively. The profile with legend ‘1st yr’ is the final state of section 2.3 step 2. The profile ‘7th yr’ is the geometry rebuilt for 2004’s Jakobshavn, which is the initial state for later simulations.
Figure S3. Bed elevation from BedMachine v3 (Morlighem et al., 2017) minus those from (Gogineni, 2012) used in this paper.

Reference