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## Supplementary Materials for

## Basal channels drive active surface hydrology and transverse ice shelf fracture

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## This PDF file includes:

• fig. S1. Custom Nansen Ice Shelf surface DEM components.



**fig. S1. Custom Nansen Ice Shelf surface DEM components.** The primary components of our custom DEM for Nansen Ice Shelf are the 1 km BDEM which contributes topographic features longer than ~4250 m, and the 1 arc-second ASTER GDEM2 which contributes features whose characteristic wavelength exceed ~4250 m. The upper panels show surface elevation in brown tones and the difference between laser altimetry and interpolated DEM values in a polar colormap. Lower panels show flow accumulation for each DEM predicted by TopoToolbox-2. The location of the surface river observed in 2014 appears as a red line in all panels.