

## Supplemental Material

### Observed meltwater-induced flexure and fracture at a doline on George VI Ice Shelf, Antarctica

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**Video S1:** A stabilised timelapse video composed of photographs taken by the camera located on the rim of South Doline near GPS02 is presented using one image per day from 22 November 2019 to 25 March 2022. In this video, photographs are from the same time of day (local noon), and have been adjusted to remove tilt and horizontal pointing variation associated with vibrations of the camera mounting system using the timelapse imagery processing methods described in the paper.

**Additional Model Details:** Additional details about the model, specifically focussed on the governing equations, boundary conditions, and the numerical implementation in COMSOL.

**COMSOL Model Report:** An automatic COMSOL generated report of Experiment 3 is provided as a PDF file.