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*Supplement of*

## **Glaciological characteristics in the Dome Fuji region and new assessment for “Oldest Ice”**

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## Content

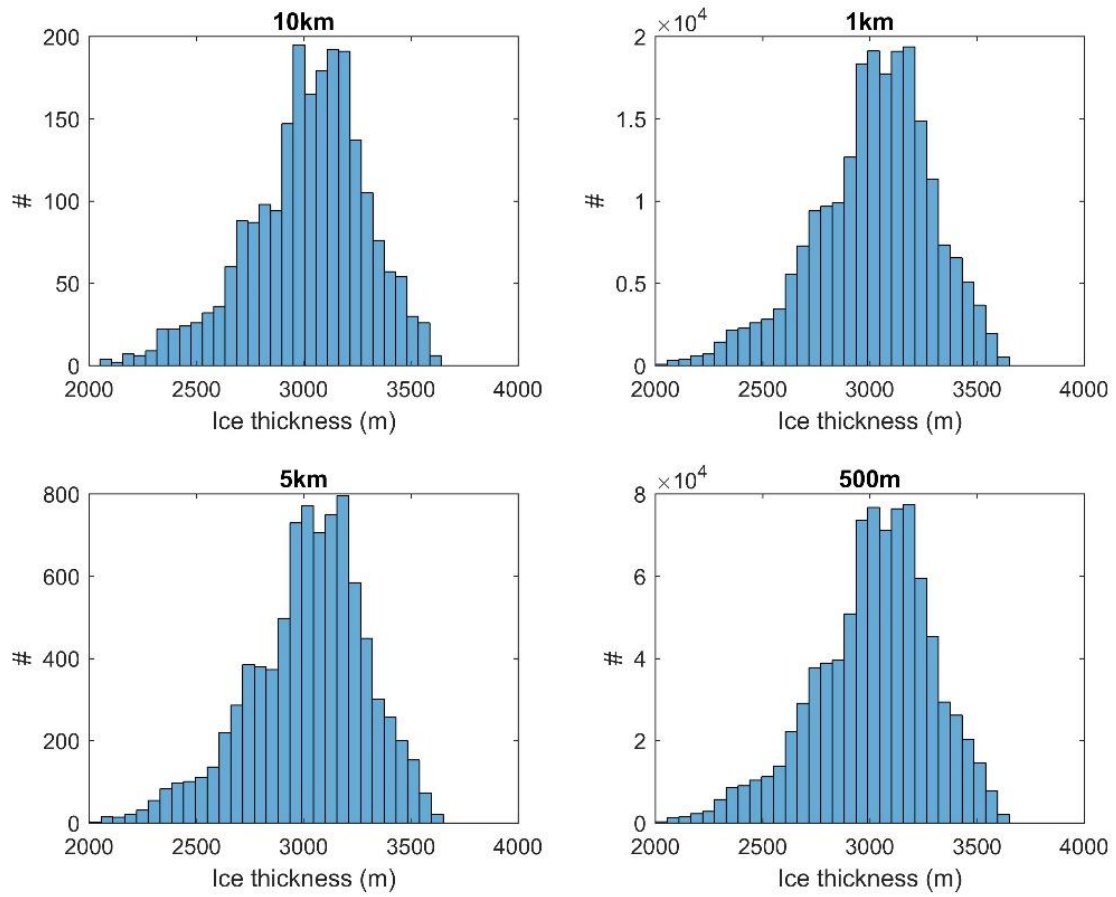
Supplementary Fig. S1: Histograms of ice thicknesses for 10km, 5km, 1km and 500m grids.

Supplementary Fig. S2: Map of locations for Suppl. Figs. S3-S6

Supplementary Fig. S3-S6: Examples of radargrams and continuity index values for different radar lines including areas with evidence of subglacial lakes.

Supplementary Fig. S7: Balance velocities from the study area.

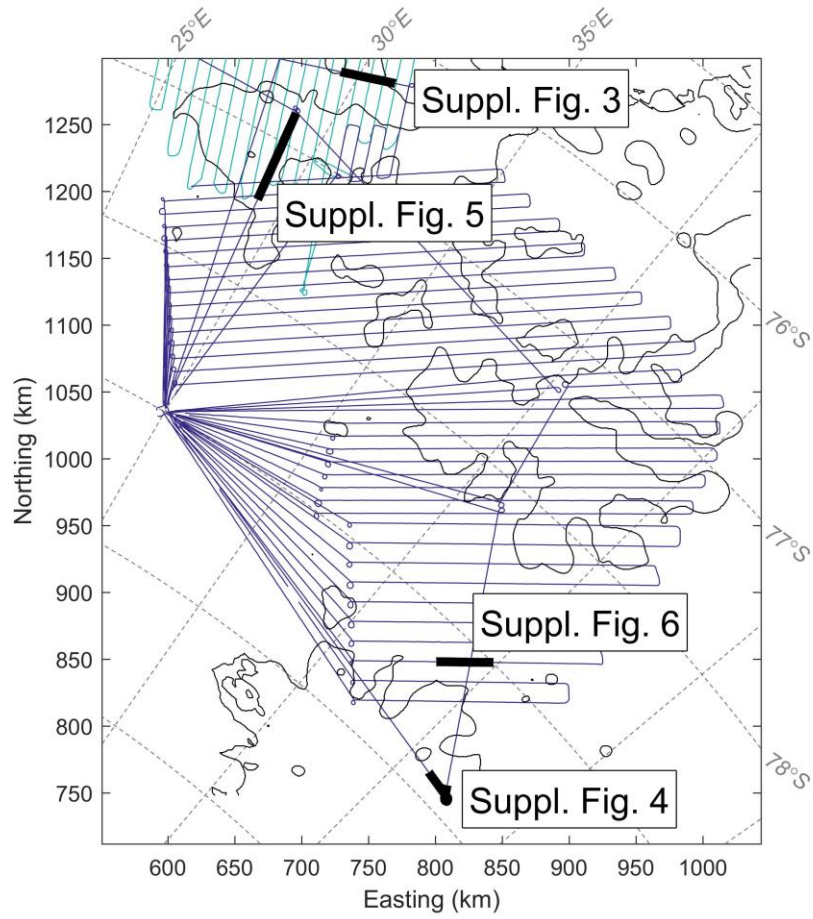
# Supplementary Fig. S1



Histograms of ice thicknesses for 10km, 5km, 1km and 500m grids.

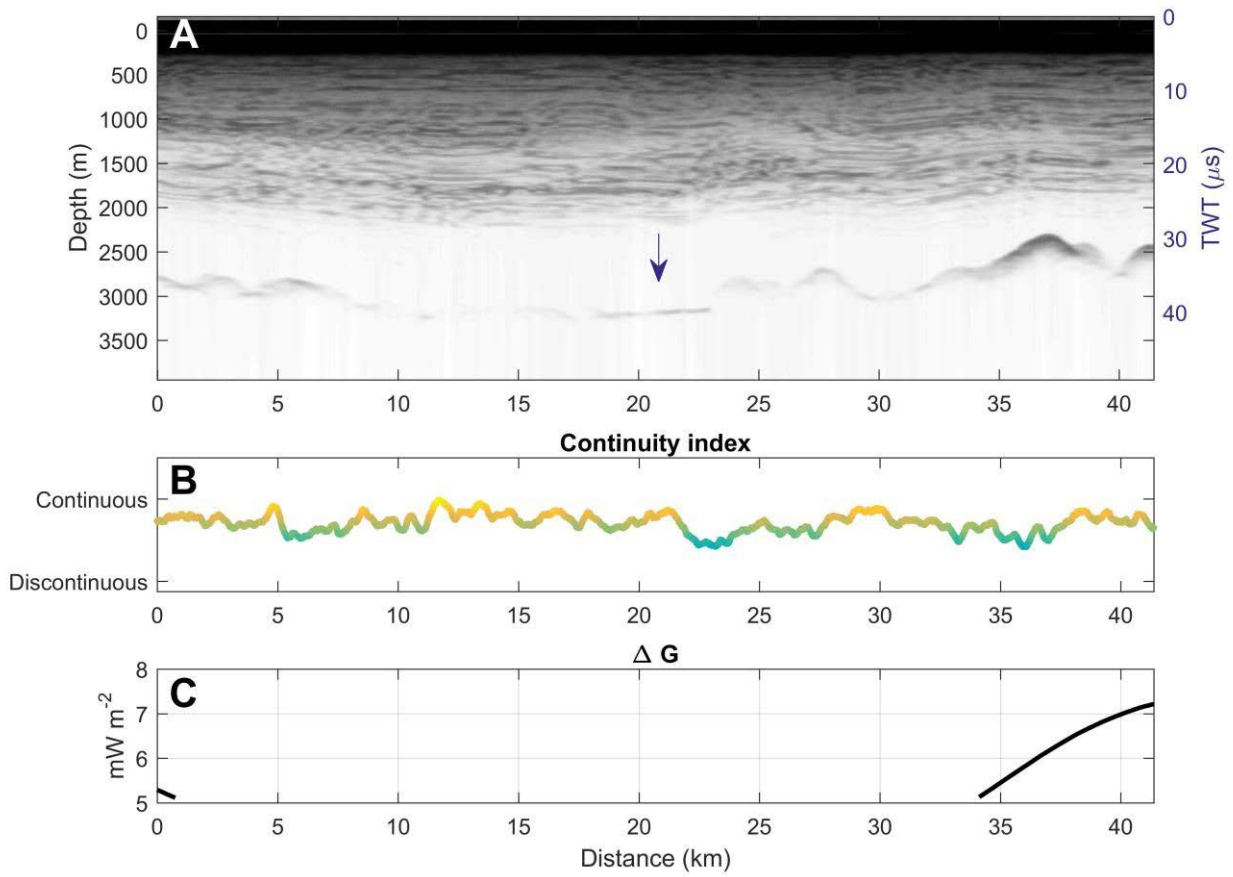
## Supplementary Fig. S2

Map of locations for Suppl. Figs. S3-S6



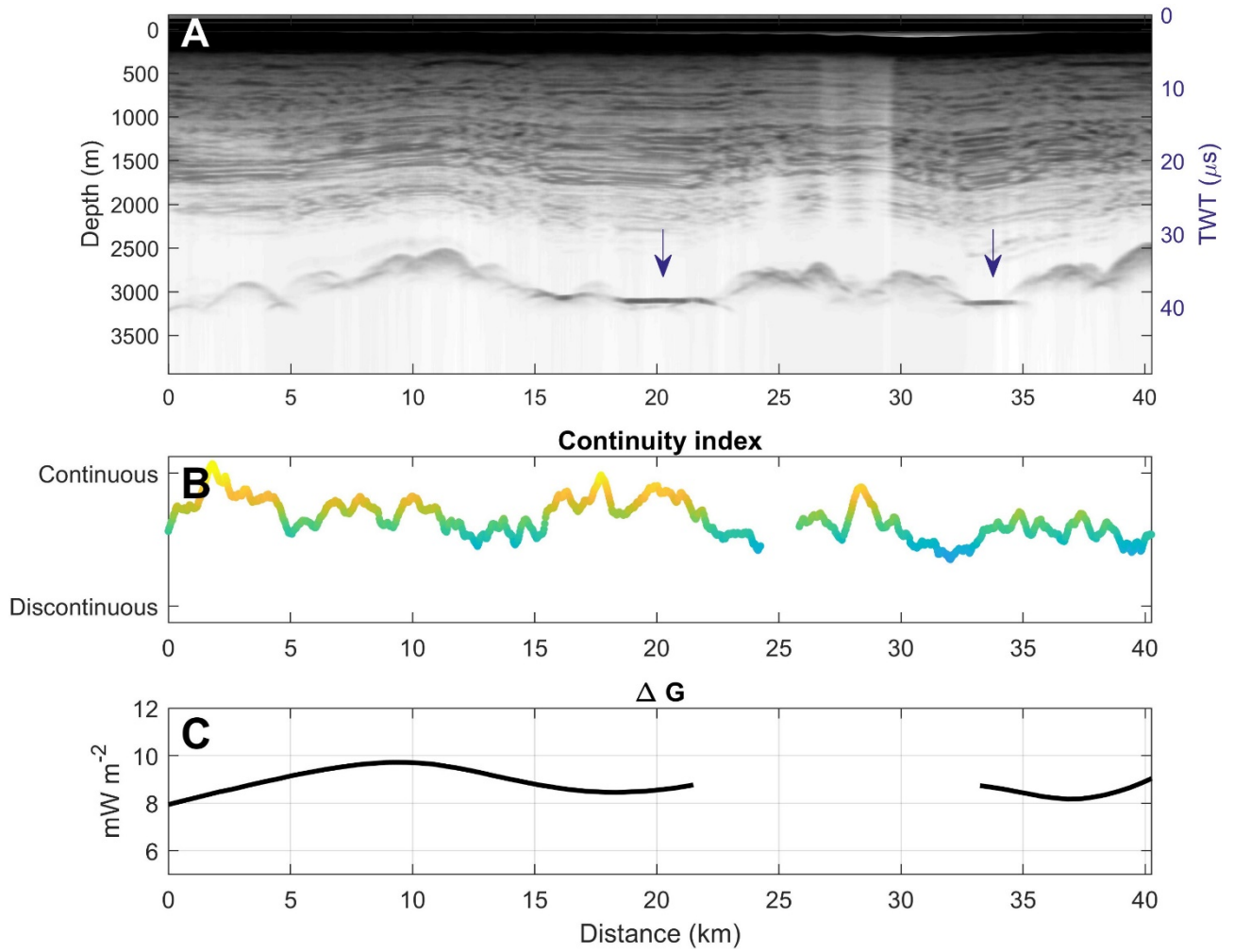
### Supplementary Fig. S3

Example of radargram, continuity index and  $\Delta G$  values for a radar line. If the value for  $\Delta G$  is below  $5\text{mW}/\text{m}^2$  it is not shown in the plot.



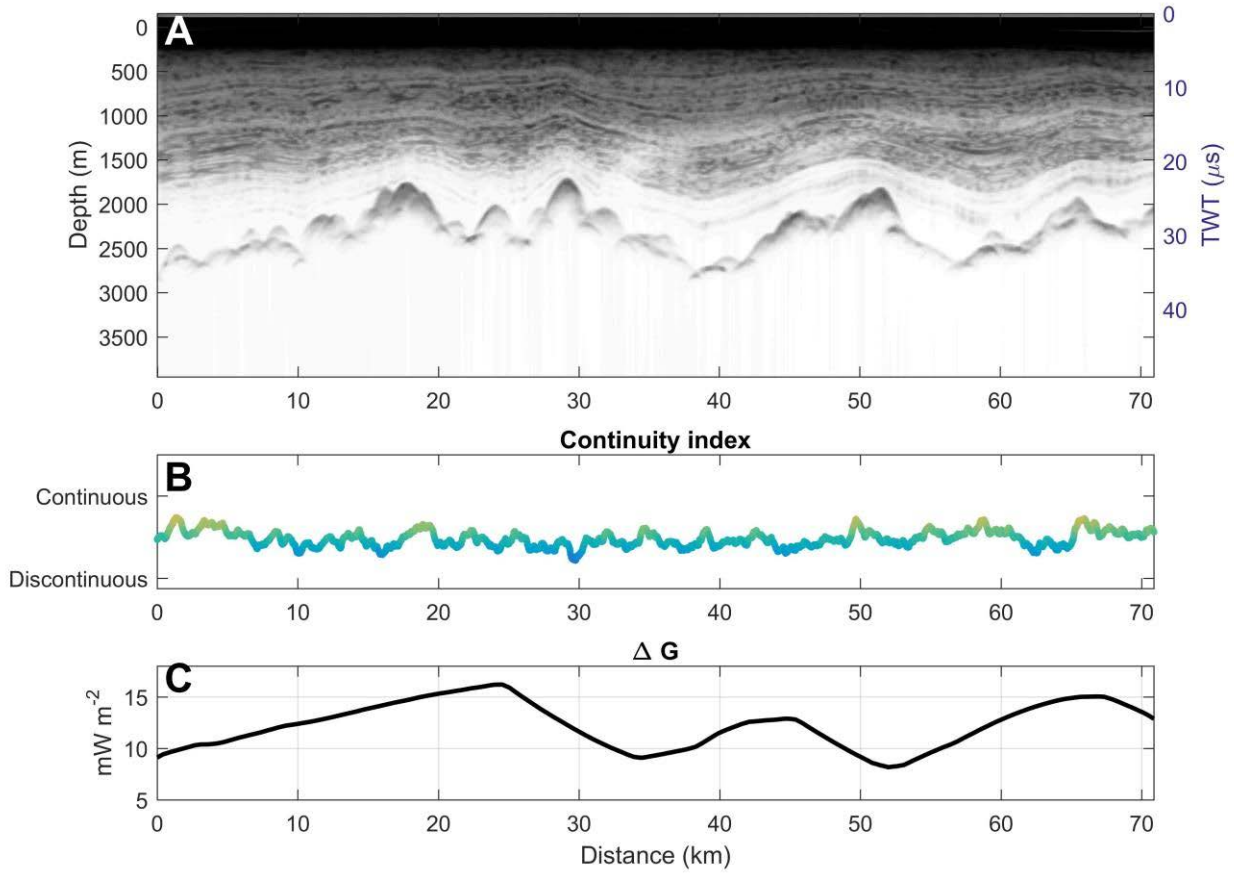
## Supplementary Fig. S4

Example of radargram, continuity index and  $\Delta G$  values for a radar line. If the value for  $\Delta G$  is below  $5\text{mW/m}^2$  it is not shown in the plot.



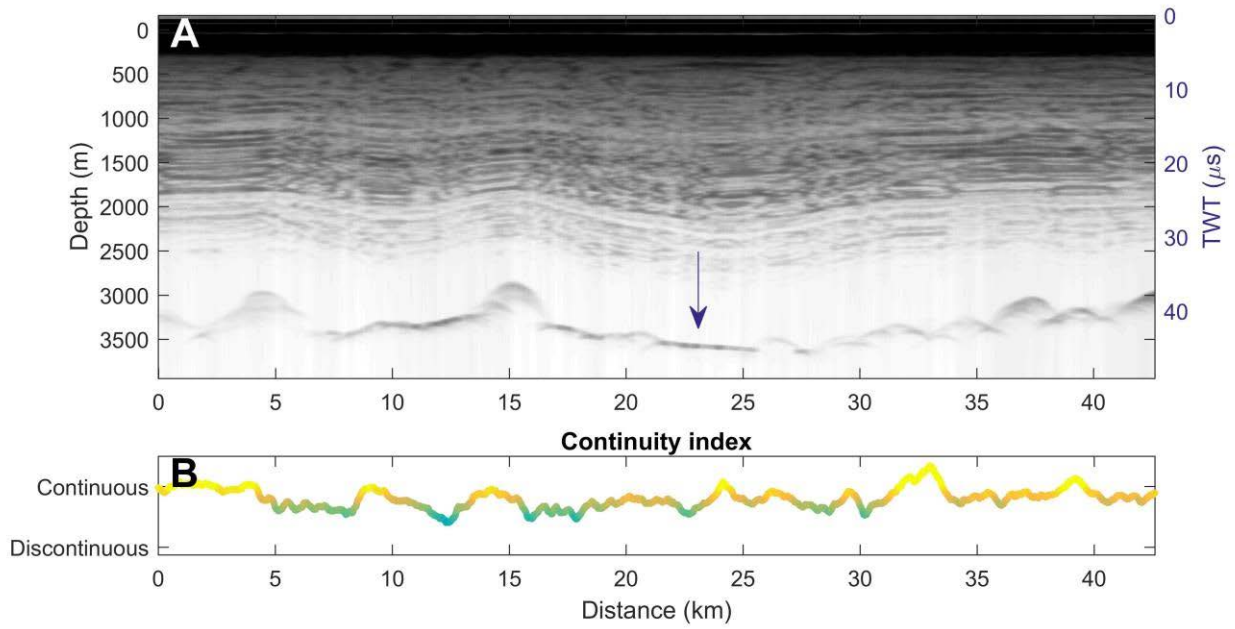
### Supplementary Fig. S5

Example of radargram, continuity index and  $\Delta G$  values for a radar line. If the value for  $\Delta G$  is below  $5\text{mW/m}^2$  it is not shown in the plot.



## Supplementary Fig. S6

Example of radargram and continuity index for a radar line (here  $\Delta G$  is below threshold value).





### Supplementary Fig. S7

Balance velocities from the model. The black lines show the new locations for Oldest Ice, the white contours outline the 1m/a and 2m/a velocities.

