

**Supplementary material for ‘Application of First Arrival Seismic Tomography in a  
Glaciated Basin: Implications for Paleo-Ice Stream Development’**

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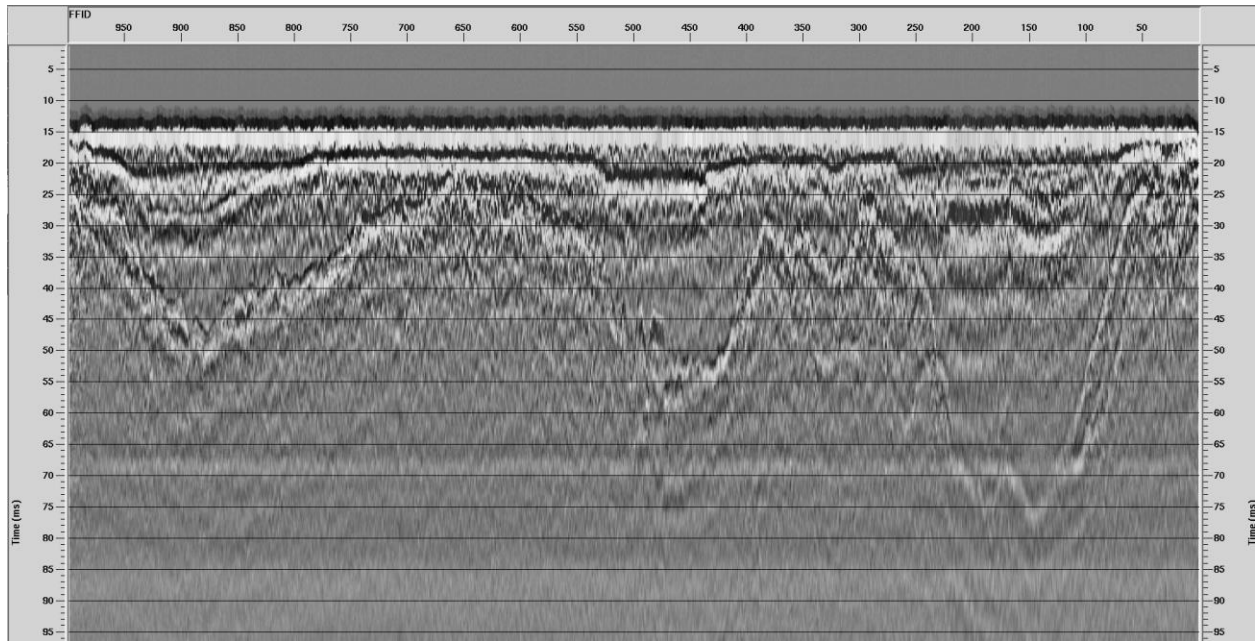


Figure S1. Seismic reflection profile for line MCS-06 using only channel 1 (the closest channel to the seismic source). To view the processed reflection profile for MCS-06 see Scholz and Zaremba, 2022.

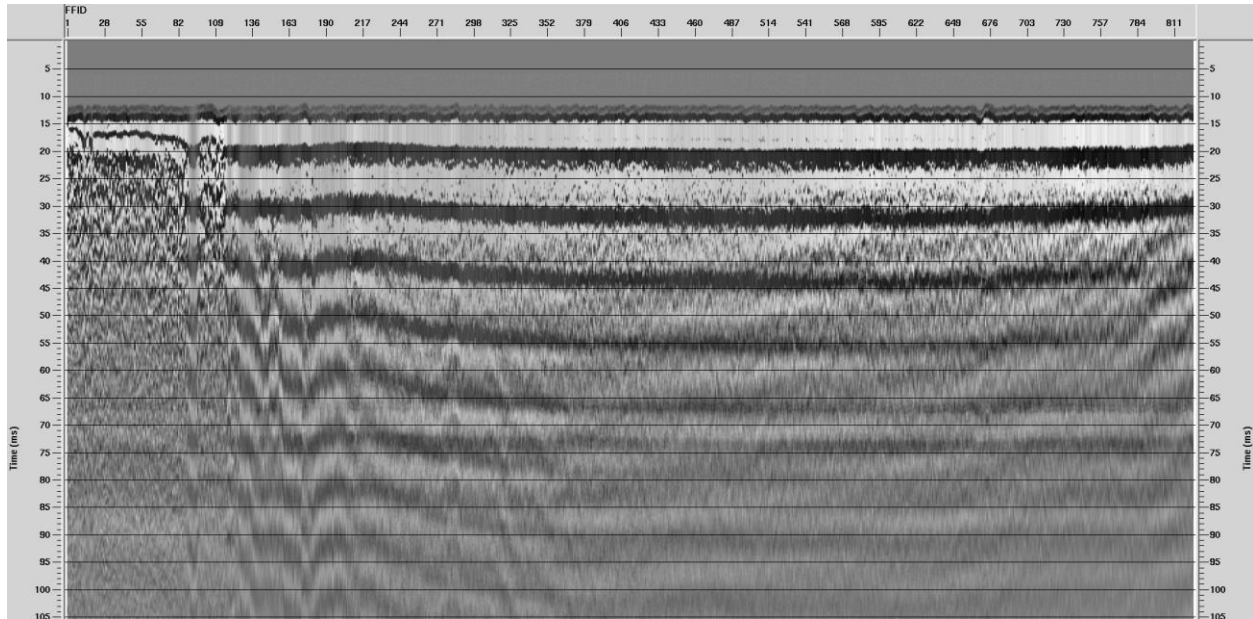


Figure S2. Seismic reflection profile for line MCS-24 using only channel 1 (the closest channel to the seismic source). To view the processed reflection profile for MCS-06 see Scholz and Zaremba, 2022.

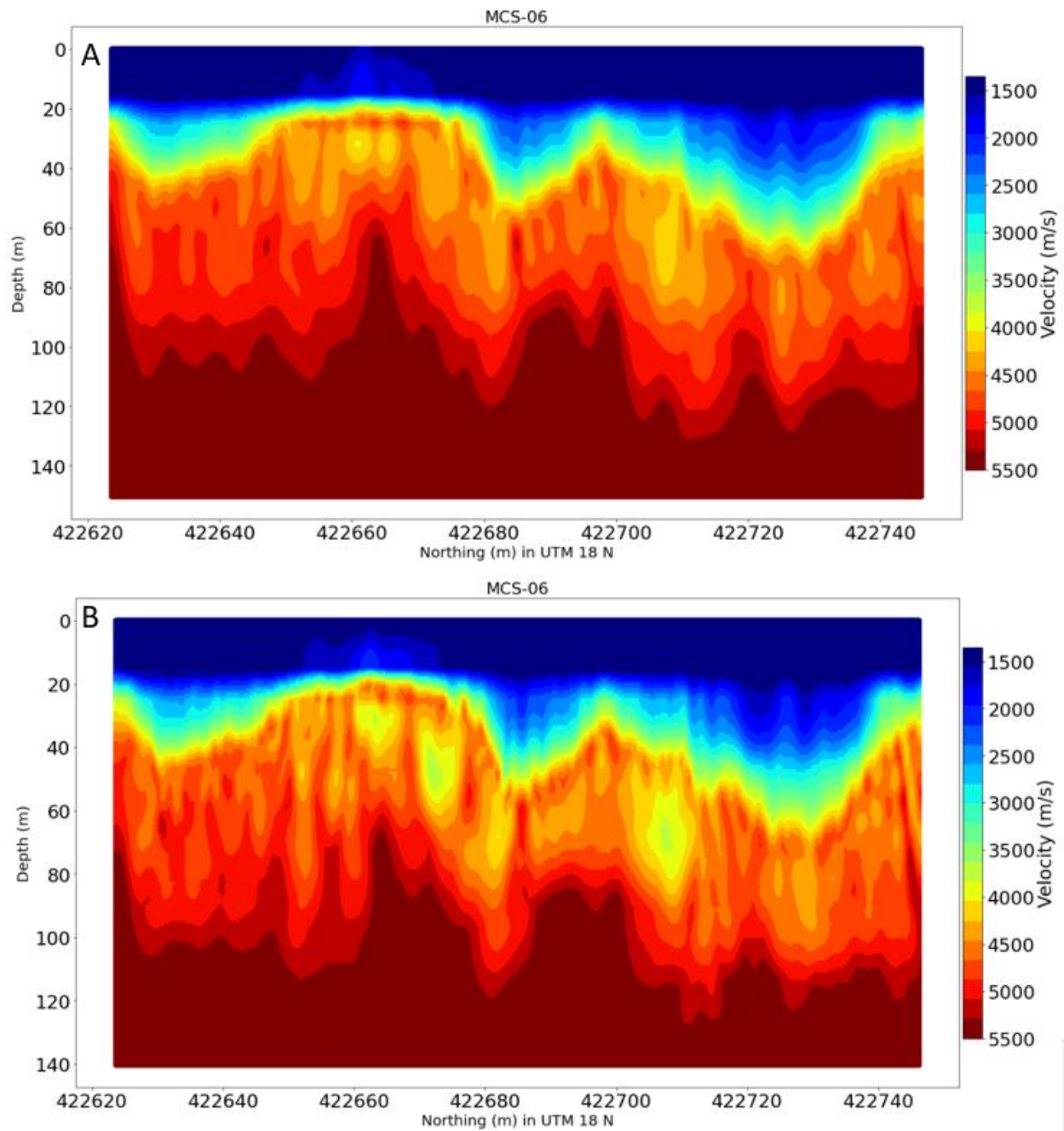


Figure S3. A) Seismic tomography velocity model for line MCS-06 with the parameters defined in the methodology section. Note the estimated picking error was 1 ms. B) Seismic tomography velocity model

for line MCS-06 with the same parameters used in S3(A) except the picking error selected was 0.1 ms. The smaller picking error decreased processing time however, resulted in more velocity inversions.