

Figure S1. Airborne lidar survey locations (A). DEMs of 1 km² training sites at Barrow (B) and Prudhoe Bay (C).

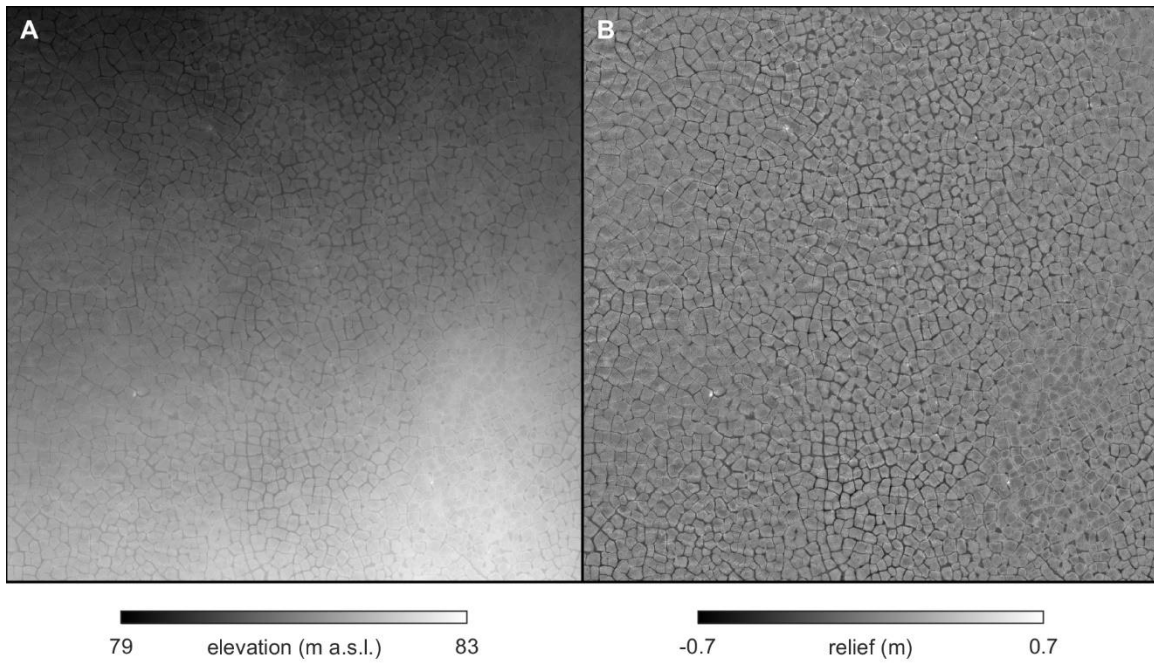


Figure S2. 50 cm DEM of the Prudhoe Bay training site before (A) and after (B) removing regional trends to isolate microtopography.

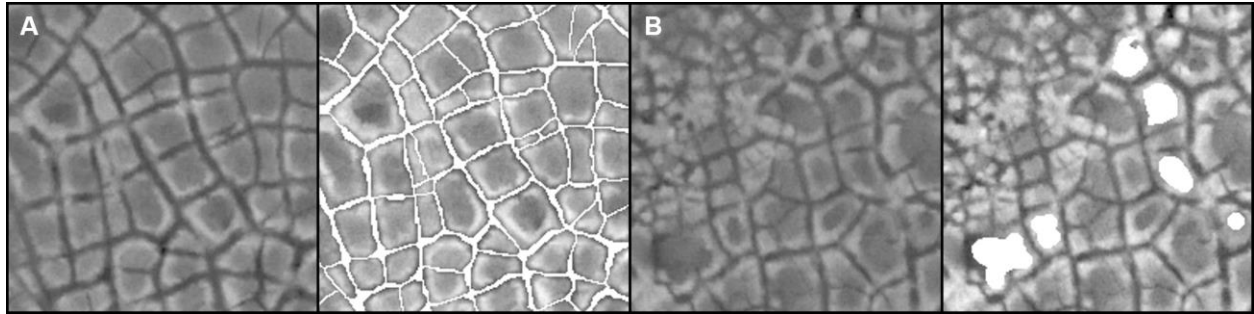


Figure S3. Samples of manually delineated data used to train the CNN, including a tile in which troughs are fully delineated (A) and a tile used to supplement the training deck with extra examples of non-trough pixels (B).

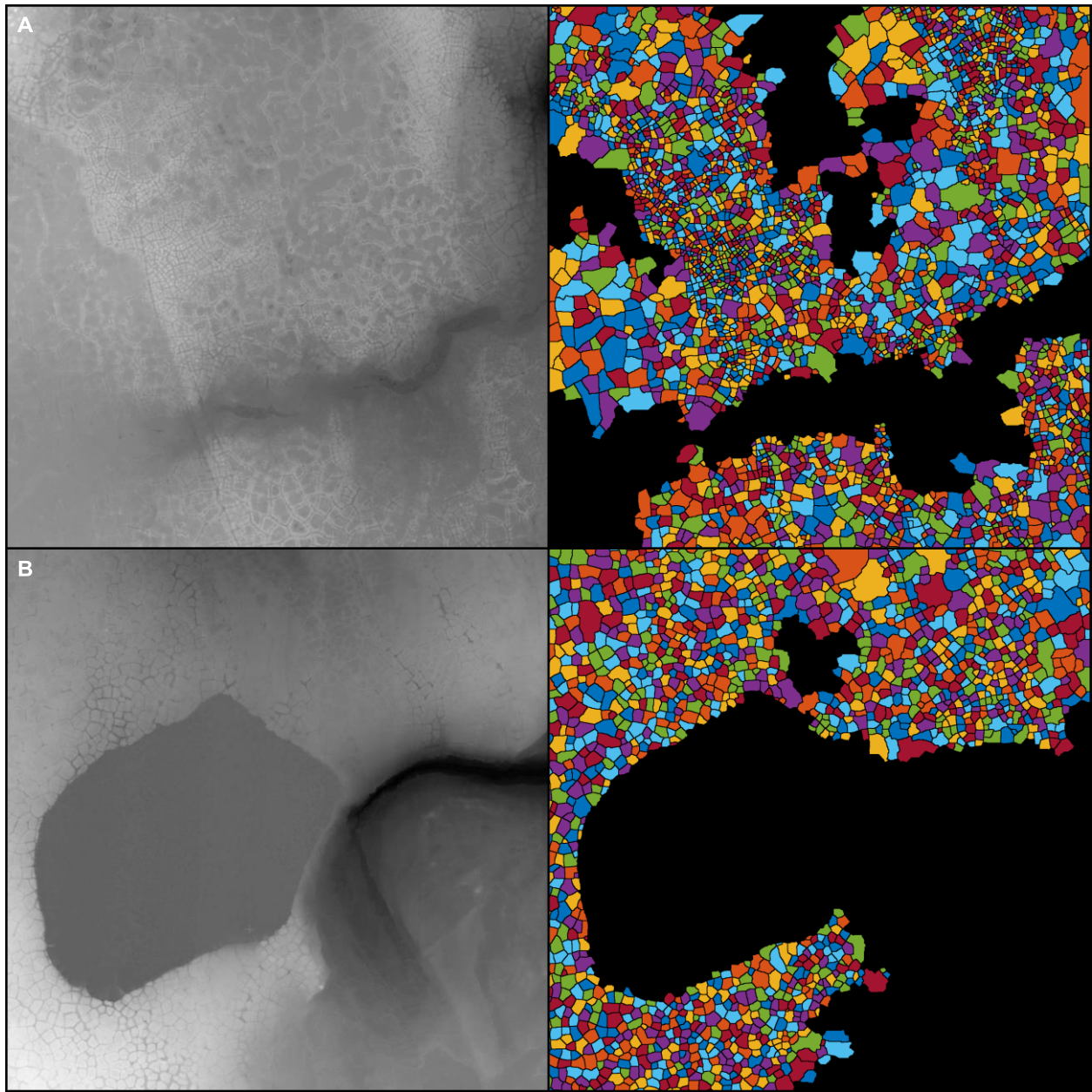


Figure S4. DEMs and results of polygon delineation at Barrow (A) and Prudhoe Bay (B) validation sites. Delineated polygons are randomly colorized.