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2 Fig. S1: InSAR average displacements with hillslope site locations noted. Contours are metres

3 above sea level every 50 m.

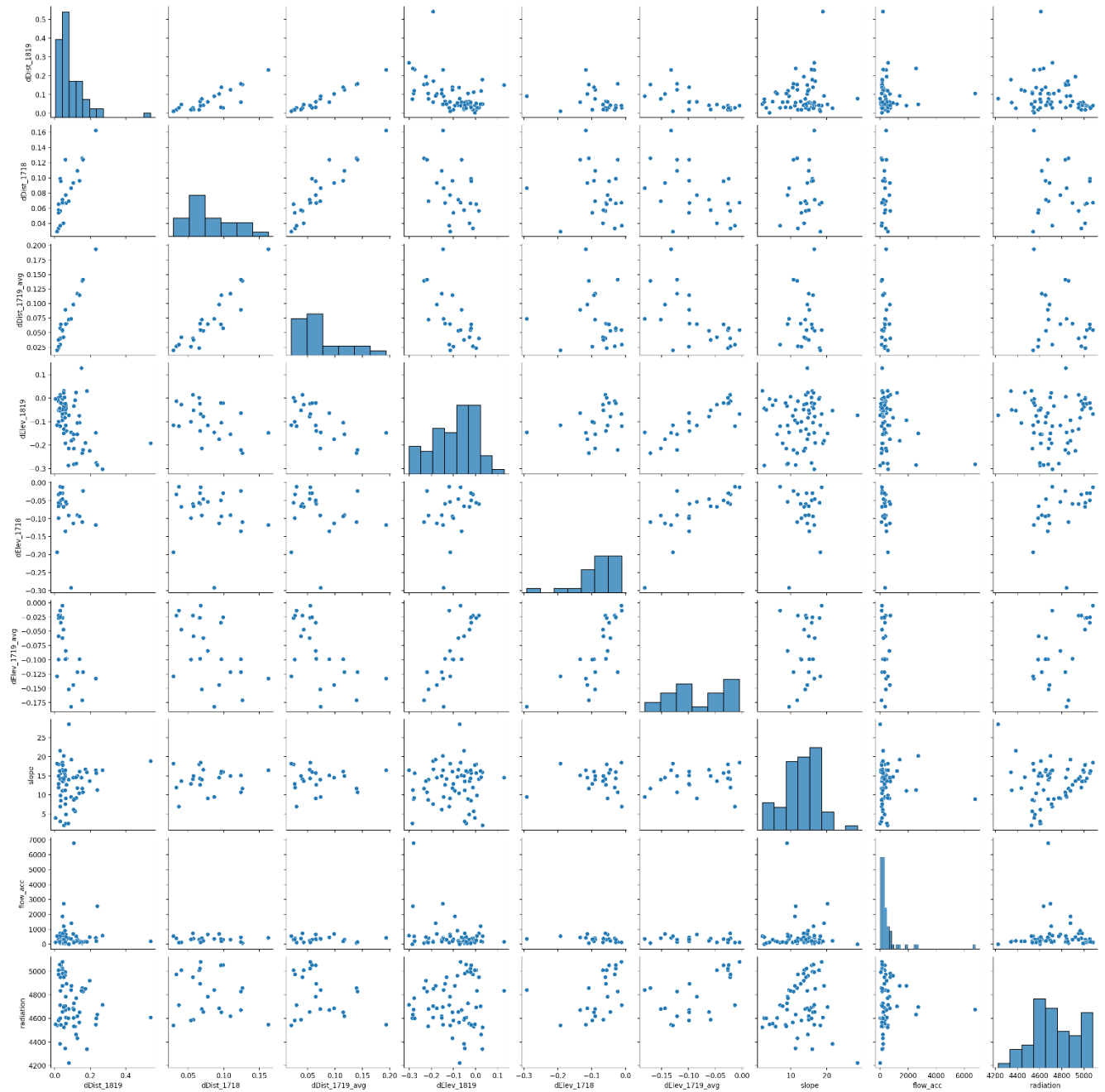


Figure S2: Pairplot of relationship between yearly vertical and horizontal DGPS-derived displacements as well as terrain attributes as described in the text. “dElev” denotes change in elevation, “dDist” denotes change in distance.

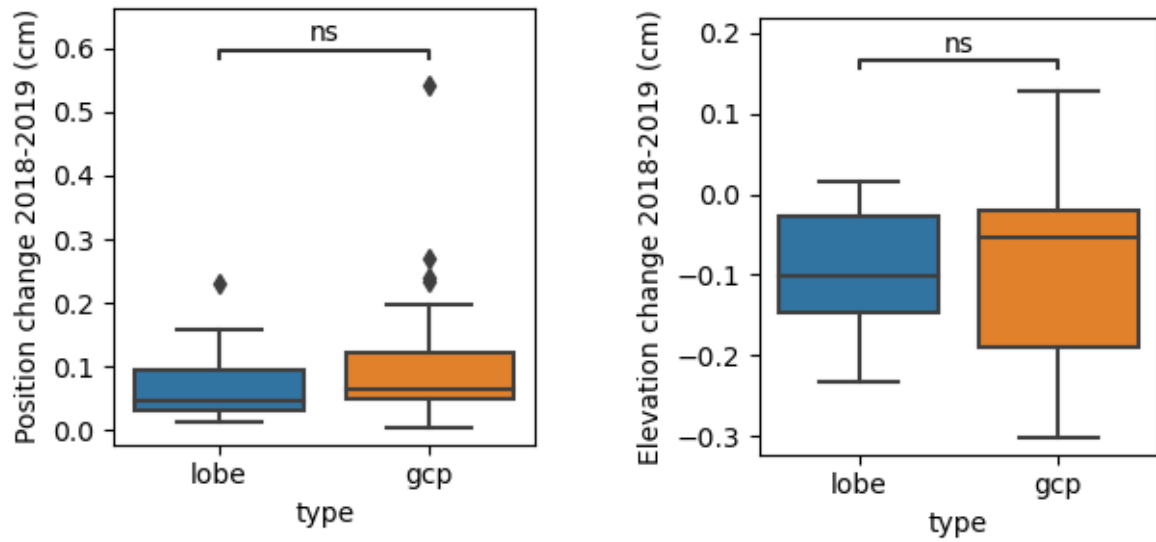
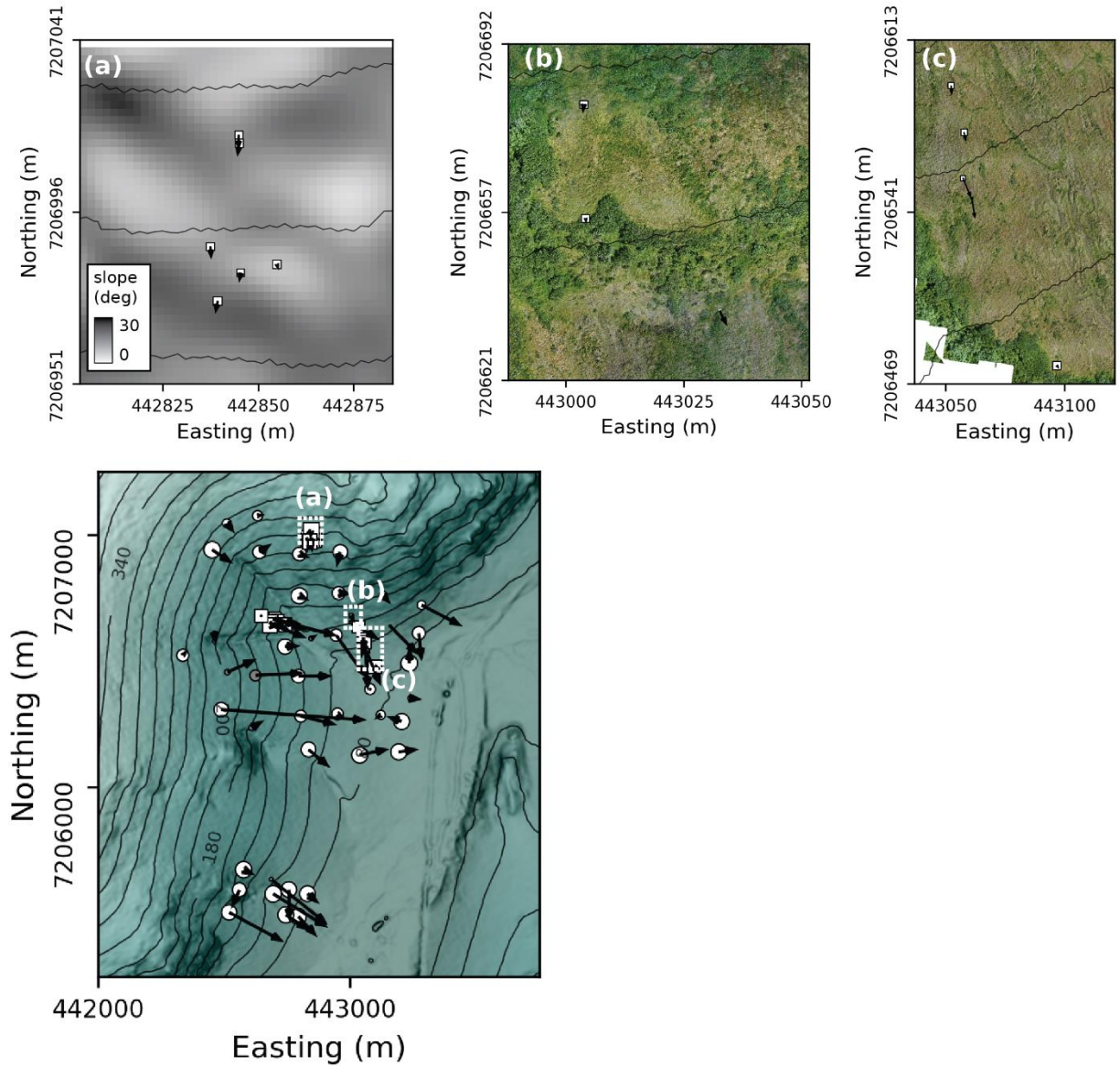


Figure S3: Statistical test for significance in movement of lobe and ground control points (GCPs). The p-value for position change is 0.1149 and the p-value for elevation change is 0.9846 (ns: $p > 0.05$).



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14 Fig. S4: Zoom-ins to lobe target clusters demonstrating the spatial variability in displacement. (a)
 15 data overlay an ArcticDEM slopeshade; (b) and (c) are UAV imagery. The locations of each
 16 cluster are shown in the reproduction of Figure 3(a).