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Supplement of

InSAR-measured permafrost degradation of palsa peatlands in northern Sweden

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S1. Higher resolutions InSAR images of study sites with palsa cells overlaid.

Figure S1: InSAR derived surface motion in Árбуувопми. Palsa 100*100m cells overlaid on buffered area from Backe, 2014.
Figure S2: InSAR derived surface motion in Vissátvuopmi complex. Palsa 100*100m cells overlaid on buffered area from Backe, 2014.
Figure. S3: InSAR derived surface motion in Tavvavuoma complex. Palsa 100*100m cells overlaid on buffered area from Backe, 2014.
Figure S4: InSAR derived surface motion in Western Tavvavuoma complex. Palsa 100*100m cells overlaid on buffered area from Backe, 2014.
Figure S5: InSAR derived surface motion in Gipmevuopmi complex. Palsa 100*100m cells overlaid on buffered area from Backe, 2014.
Figure S6: InSAR derived surface motion in Ragesvuomus-Pirttimysvuoma complex. Palsa 100*100m cells overlaid on buffered area from Backe, 2014.
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Figure S8: InSAR derived surface motion in Ribasuomus complex. Palsa 100*100m cells overlaid on buffered area from Backe, 2014.
S2. Orthophotos InSAR ground motion examples

Figure. S9: Aerial (a) and InSAR derived ground motion (b) imagery of palsa at Vissátvuopmi. Airborne imagery surveys commissioned by the 194 Swedish Mapping, Cadastral and Land Registration Authority (www.lantmateriet.se; © Lantmäteriet).

Figure. S10: Aerial (a) and InSAR derived ground motion (b) imagery of palsa at Tavvavuoma. Airborne imagery surveys commissioned by the 194 Swedish Mapping, Cadastral and Land Registration Authority (www.lantmateriet.se; © Lantmäteriet).
Figure S11: Aerial (a) and InSAR derived ground motion (b) imagery of palsa at Western Tavvavuoma. Airborne imagery surveys commissioned by the 194 Swedish Mapping, Cadastral and Land Registration Authority (www.lantmateriet.se; © Lantmäteriet).
S3. Climatic variables

Figure. S12: Long term climatic variables that were not found to have clear temporal relationships at any of the three weather stations.
Figure S13: Daily air temperature, rainfall, and precipitation for the period that InSAR data was captured over.
S4. Field Photographs

Figure. S14: Degrading palsa edge at Vissátvuopmi provided by Matthias Stiewert