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*Supplement of*

## **Geochemical signatures of pingo ice and its origin in Grøndalen, west Spitsbergen**

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## Supplementary Material

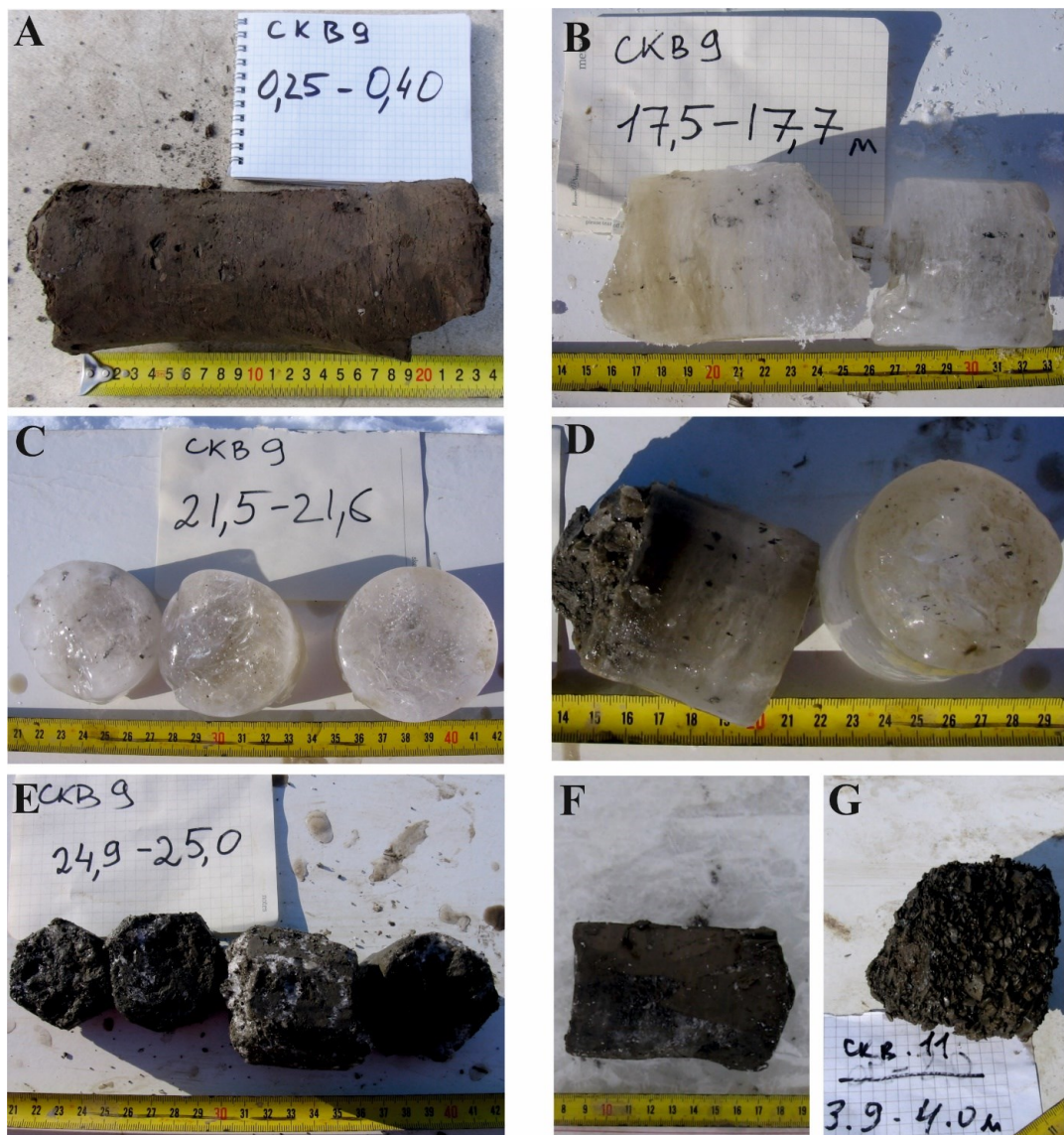


Figure S1: Photos of obtained cores: A - gravelly loam at 0.25-0.4 m core #9 with wavy cryostructure, ice lenses up to 1 mm thick, B – transparent pingo ice containing dark silty flakes at 17.5-17.7 m core #9, C - cross-section of pingo ice with dark silty flakes and air bubbles at 21.5-21.6 m core #9, D – boundary between massive ice and underlying sediments at 22.2 m core #9, E - dark clay with irregular reticulate cryostructures (ice lenses up to 5 mm thick) at 24.9-25.0 m core #9, F - ice-oversaturated deposits of core #10 at 4.95-5.2 m, G- gravelly sand with structureless cryostructure at 3.9-4.0 m core #11.