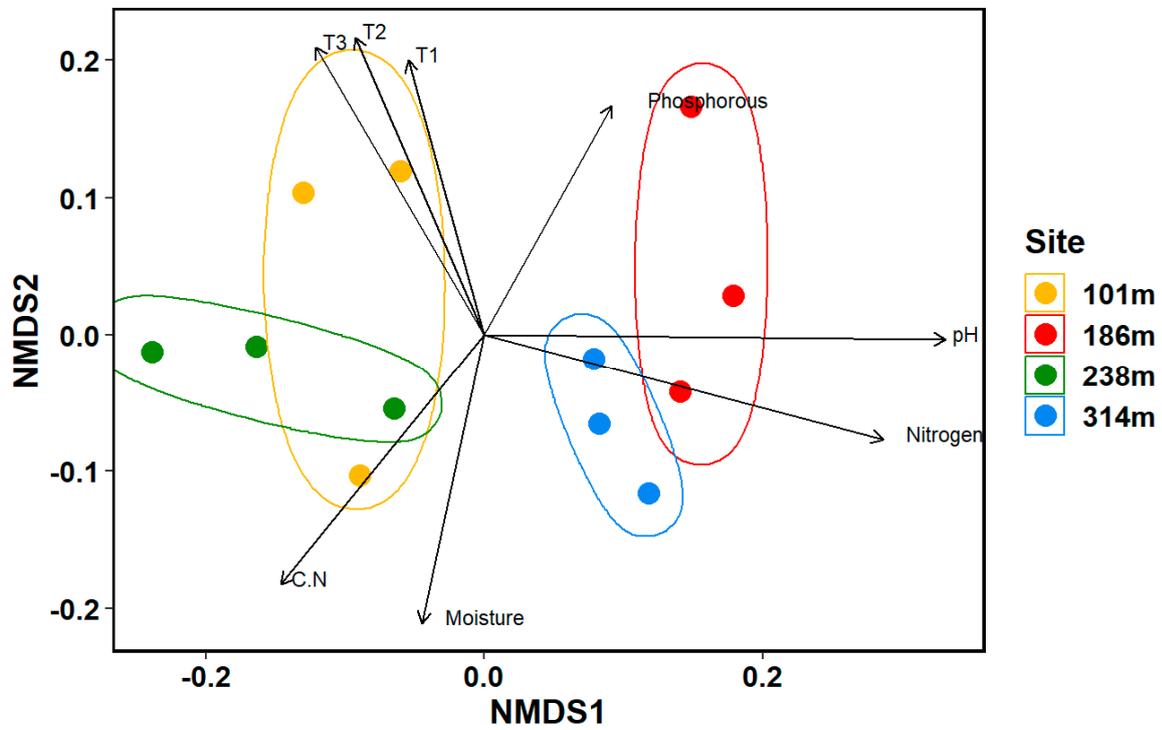


**Supplementary Figure S1: Wind velocity in the time period from 13.07.2023 until 04.08.2023 measured at Ny-Ålesund station.** Ny-Ålesund station is located around 12 km west from Ossian Sarsfjellet.



**Supplementary Figure S2: Non-Metric Multidimensional Scaling (NMDS) plot based on relative abundances of DNA sequences.** T1 = Temperature measured 6 cm below the soil surface; T2 = Temperature measured at the soil surface; T3 = Temperature measured 15 cm above the soil surface; C.N = Carbon to nitrogen ratio; Parameters which did not show significant differences between the sites are not included, p-value < 0.05.