

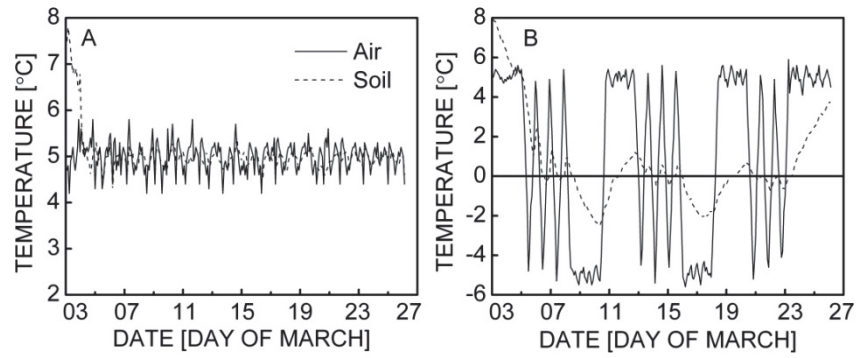


Fig. 1 Suppl. Air temperature (*solid lines*) and soil temperature at 5 cm below ground (*dashed lines*) in chambers of control (*A*) and soil freeze-thaw (FT) cycle treatments (*B*) during March 3 - 27, 2013.

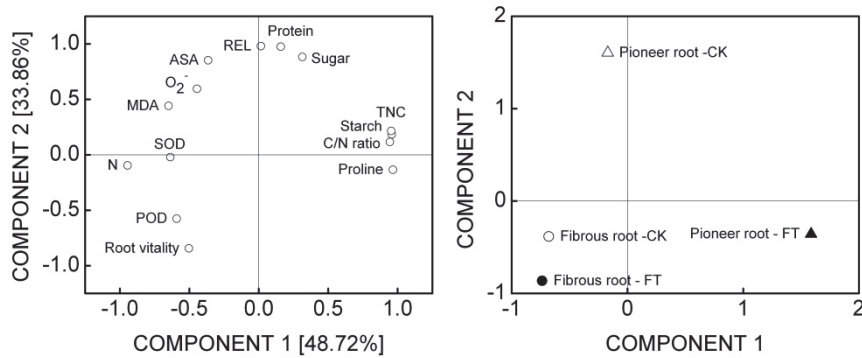


Fig. 2 Suppl. Representation of the principal component analysis (PCA) of all the parameters measured in this study related with root responses to soil freeze-thaw (FT) regimes, defined by the first two components (PC1 and PC2). ASA - ascorbic acid content, MDA - malondialdehyde content, O₂⁻ - rate of superoxide radicals production, POD - peroxidase activity, REL - relative electrolyte leakage, SOD - superoxide dismutase activity, TNC - total nonstructural saccharide content.