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Supplement of

Fresh and degraded maize shoot and root residues temporarily change hydraulic properties of a loamy soil

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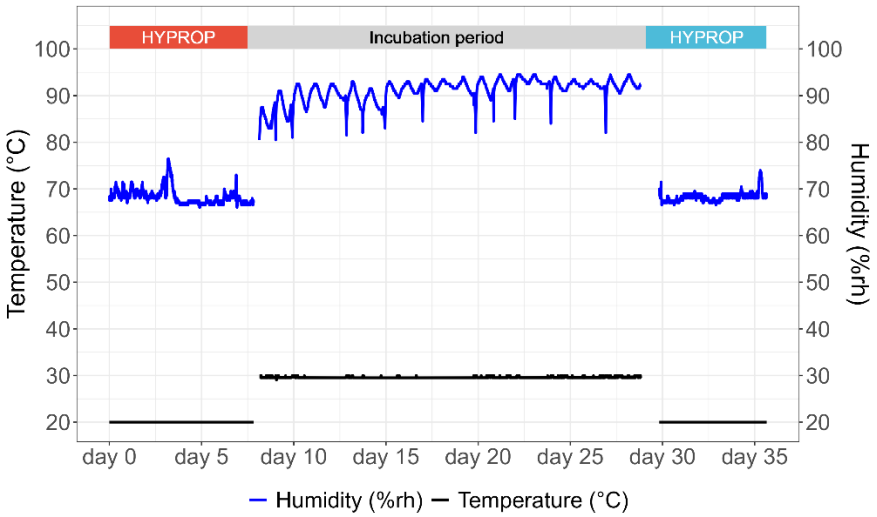


Figure S1 Temperature and relative humidity inside the climate constant room during HYPROP measurements (pre- and post-incubation) and inside the incubation chamber.

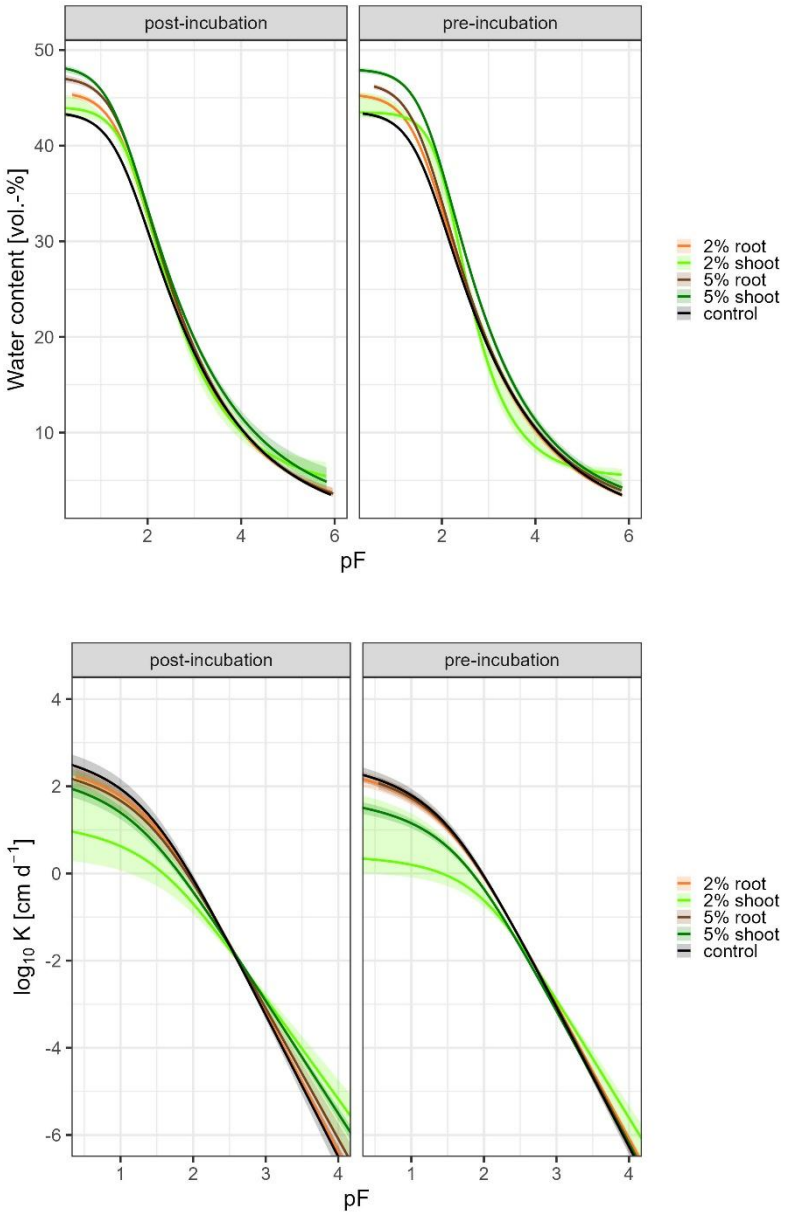


Figure S2 Soil water retention curve (top) and unsaturated hydraulic conductivity curve (bottom) for crop residues-soil mixtures of different concentrations (control (0% CR addition), 2 wt.% CR, and 5 wt.% CR) of shoot and root residues. The results are presented as the fitted vanGenuchten model. The shaded area marks the 95-confidence interval of the fit gained by bootstrapping.

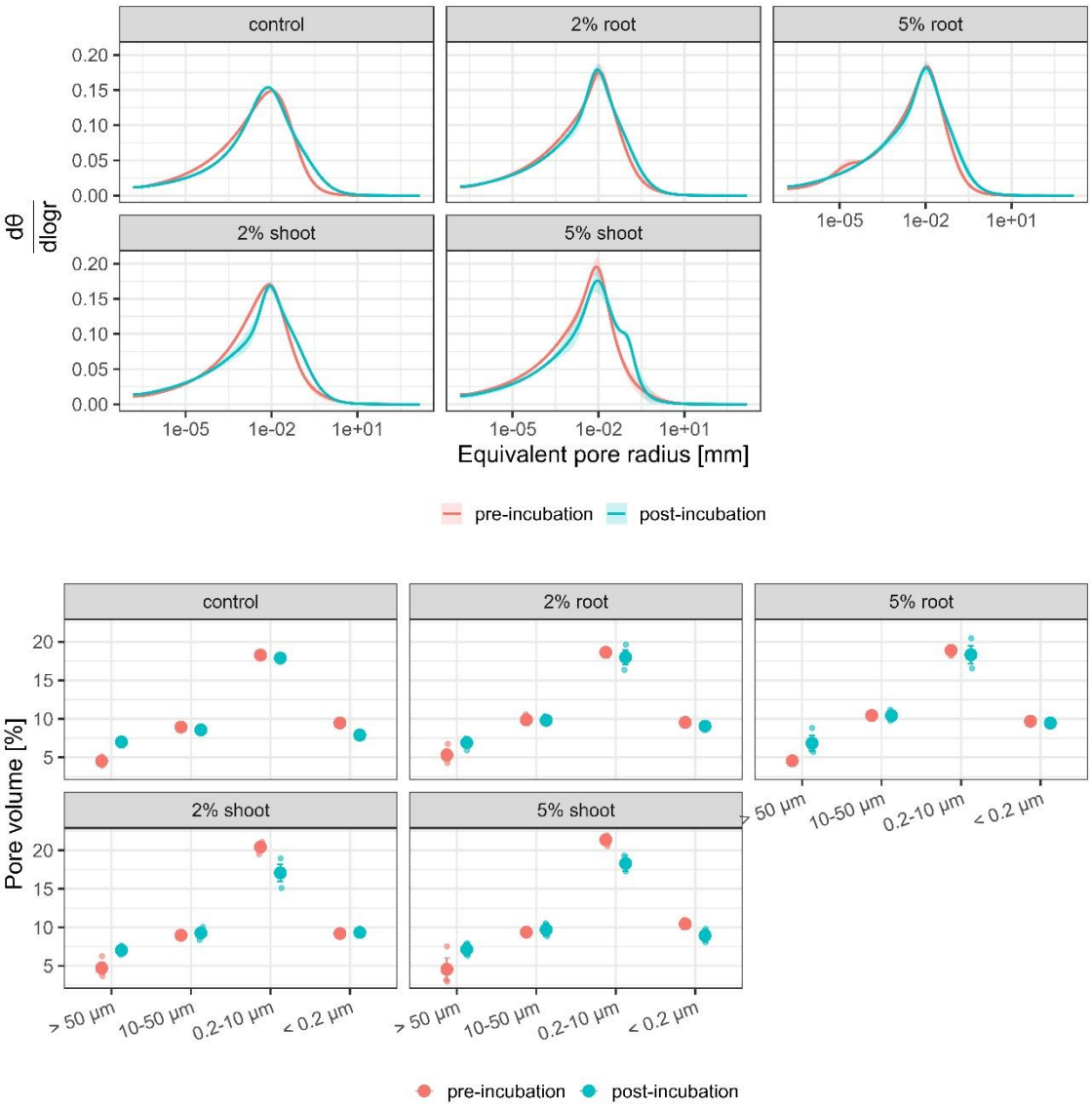


Figure S3 Top: Frequency distribution of pore radii derived by the water retention curve. Shaded area marks the standard error of all replicates. Bottom: Average pore volume of different pore size classes derived from the water retention curves, error bars mark the standard error, small and transparent points the individual sample results.

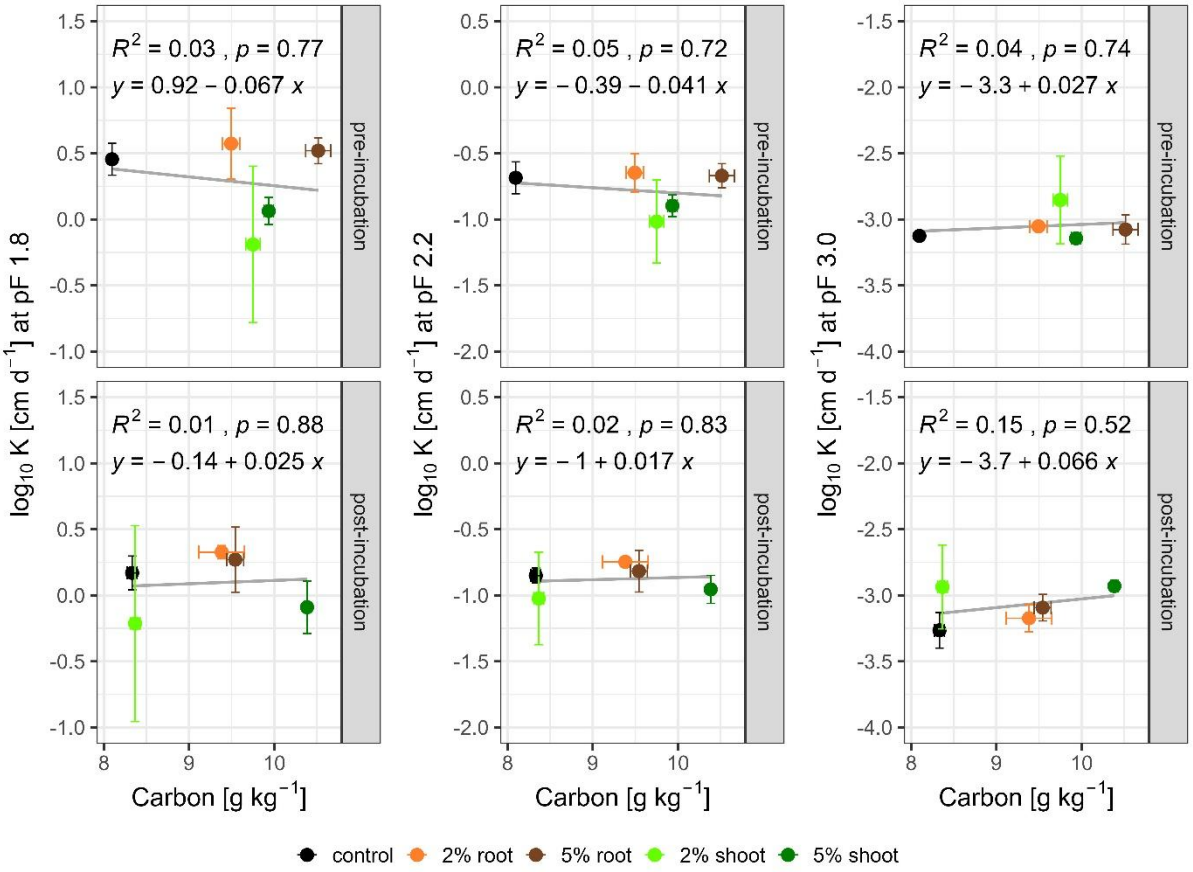


Figure S4 Unsaturated hydraulic conductivity as function of C concentration from field capacity (pF 1.8), pF 2.2 to pF 3.0) investigated for samples measured pre- (top) and post- incubation (bottom).