

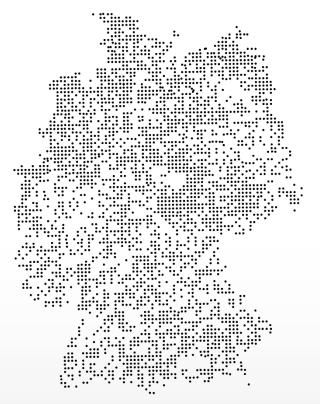
What do carbon fractions and C:N ratios tell us about the origin of carbon in German agricultural soils?

Florian Schneider, Axel Don Thünen Institute of Climate-Smart Agriculture





The Dataset



8 x 8 km sampling grid of the German Agricultural Soil Inventory (2012-2018)

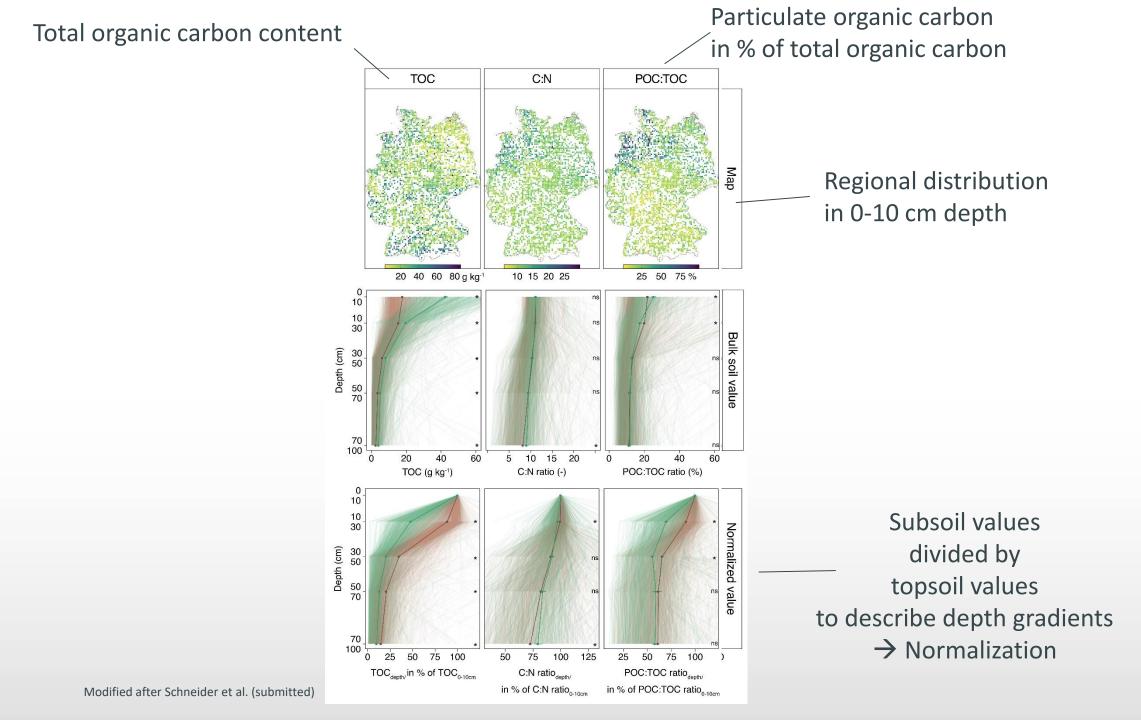
1

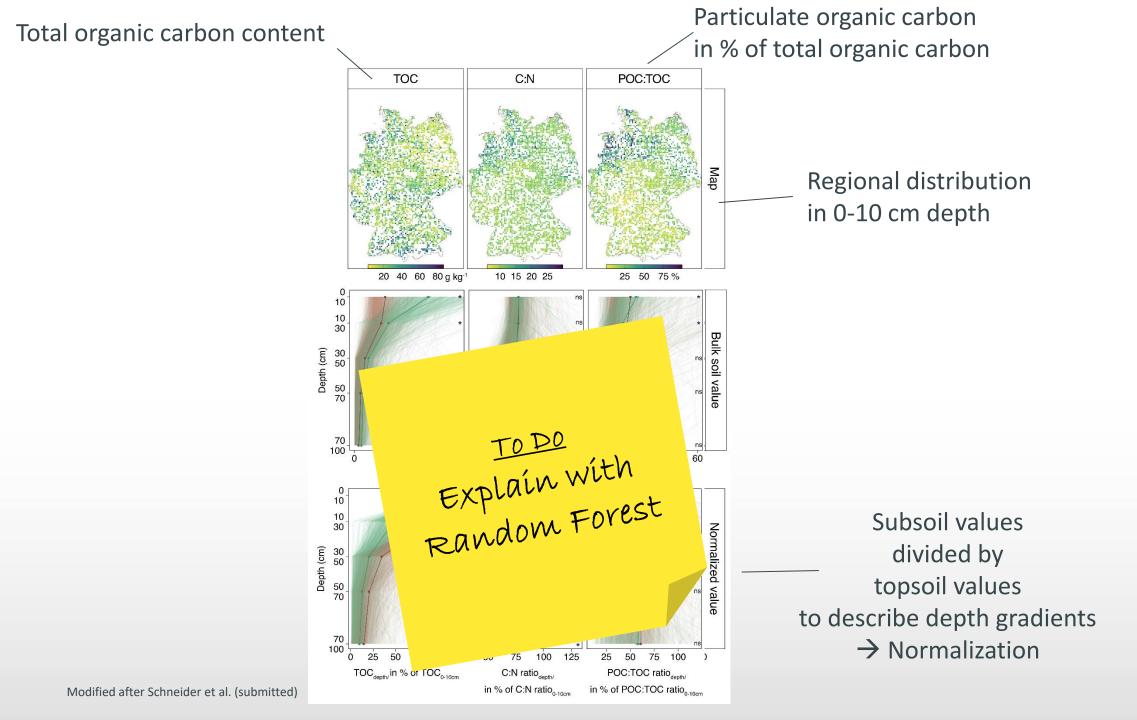
German Agricultural Soil Inventory (BZE)

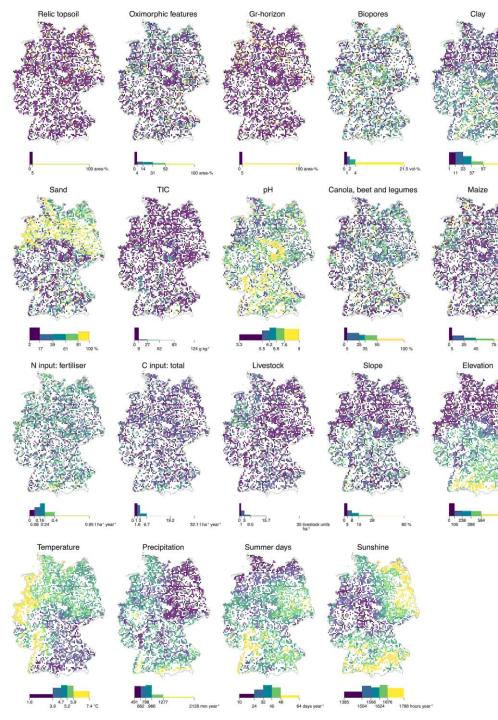
- 3.104 soil profiles
- 16.879 soil samples
- carbon fractions via NIR spectra

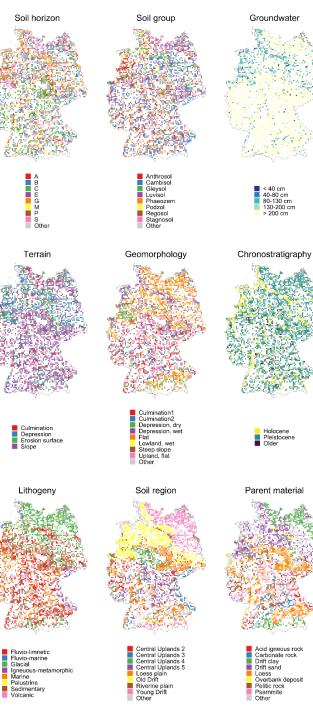
Florian Schneider German Agricultural Soil Inventory



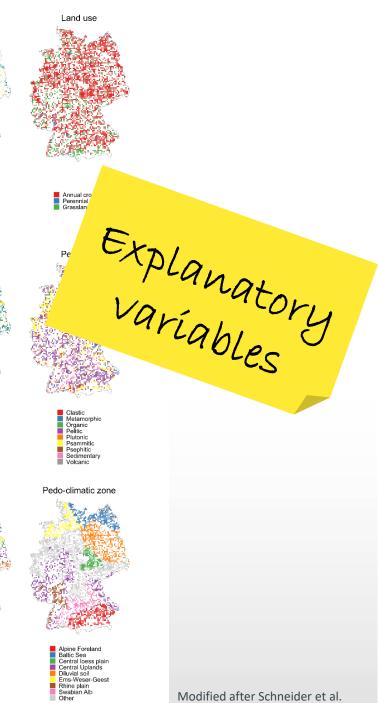




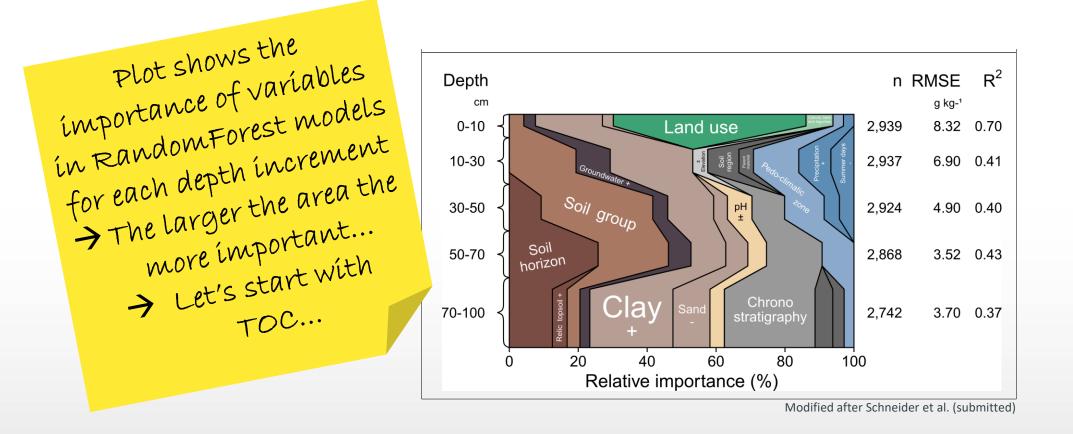




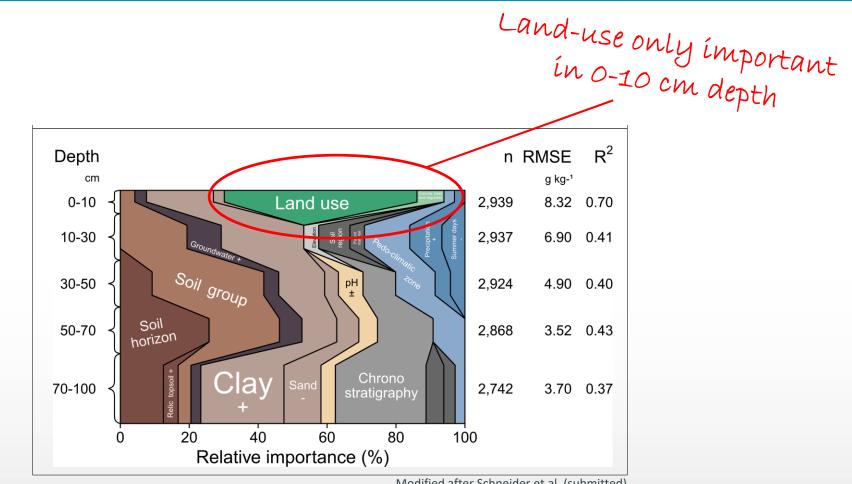
1080 m a.s.l.



Modified after Schneider et al. (submitted)



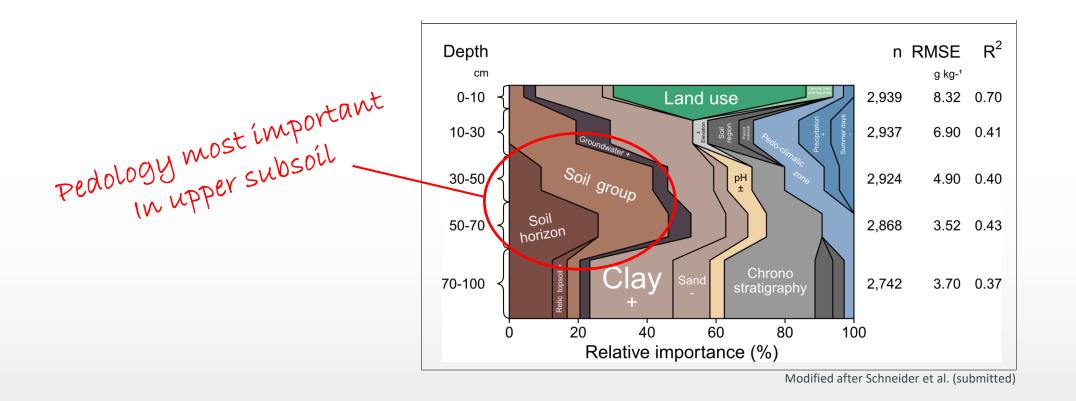




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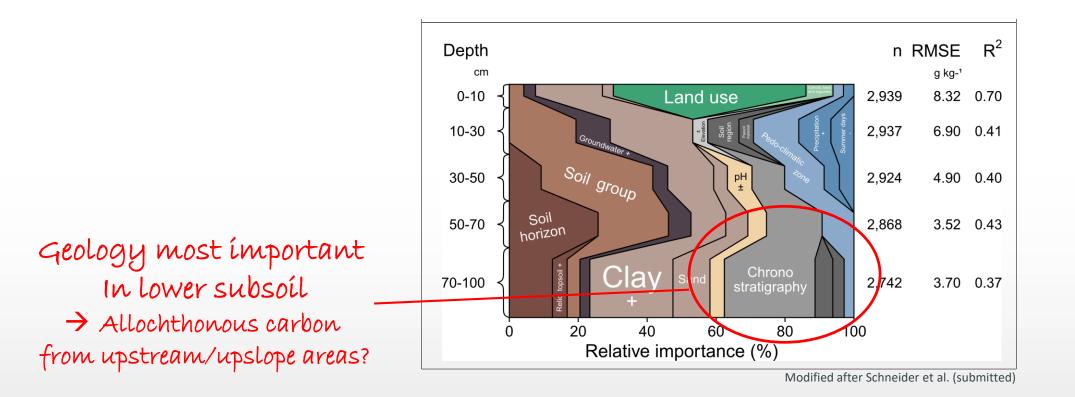


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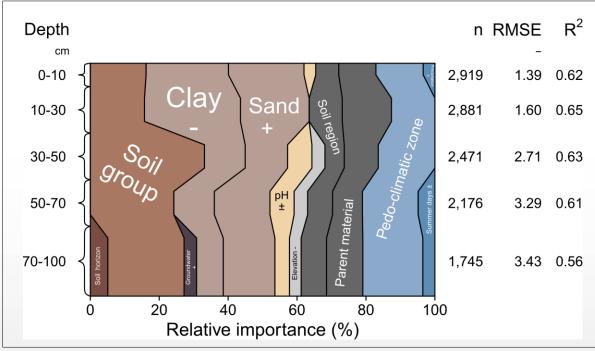


THÜNEN







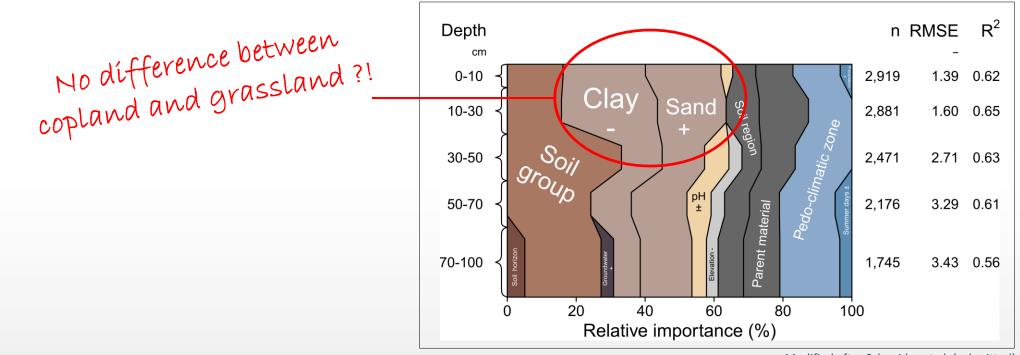


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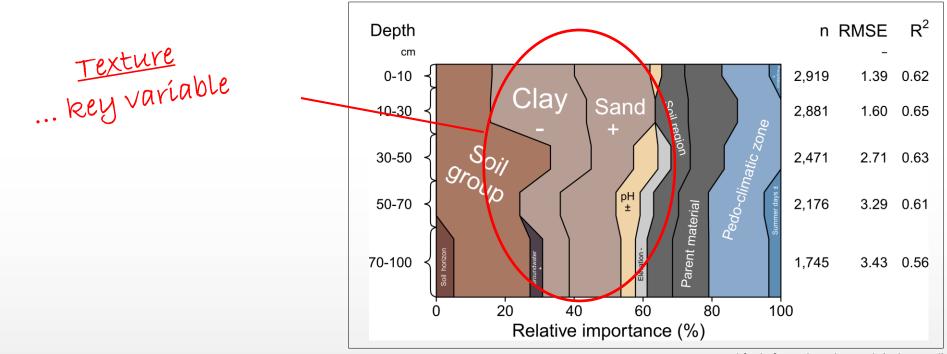


Modified after Schneider et al. (submitted)









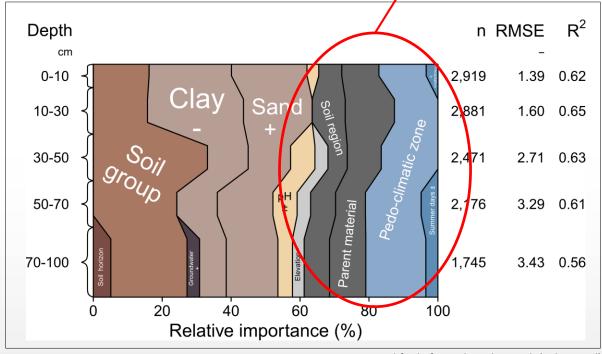
Modified after Schneider et al. (submitted)



Results C:N ratio

12

Elevated C:N ratios in north-east Germany → Relic organic matter from historic peatland and heathland



Modified after Schneider et al. (submitted)



Florian Schneider German Agricultural Soil Inventory



Thank you for reading ^(C) Contact

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