

## Comments

### Supplementary Material

S 961, 8: "A horizon increased from 0.4 to 1.1m" Can you please add a scale to Figure 1 on the left side otherwise it seems that "ploughed organo mineral A" and "mineral A" are almost 1m.

S 961: Can you please give some explanations to the predominant pedogenesis. For me it is not clear why soil types of such a different structure appear in direct neighborhood.

### Figure S4

I suggest to put this figure in the text.

### Figure 4:

Can you please use a similar colour ramp as for Figure S4. Which interpolation method you used, please explain in the text.

Figure 8: The correlation of the WS model to the Van Genuchten model is best for high ER. Please explain why?

Figure 9: please translate "Linéaire" into English