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## ***Interactive comment on “Quantifying soil and critical zone variability in a forested catchment through digital soil mapping” by M. Holleran et al.***

**M. Holleran et al.**

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Updated Table 5

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Table 5. Correlation matrix of environmental covariates, principal components, and soil variables.

	Mod_Depth	Wet_Ind	Sol_Rad	Slope	NDVI	B3:B2	PC1	PC2	PC3	PC4	PC5	PC6	KCl- pH	Clay (%)	$\tau_{so}$	Soil Depth (cm)	Carbon (kg m <sup>-2</sup> )	Clay (kg m <sup>-2</sup> )	Na mass flux (kg m <sup>-2</sup> )
Mod_Depth	1.00																		
Wet_Ind	<b>0.73***</b>	1.00																	
Sol_Rad	-0.13	0.09	1.00																
Slope	0.28	-0.03	<b>-0.59**</b>	1.00															
NDVI	-0.01	-0.10	-0.19	0.24	1.00														
B3:B2	0.07	0.17	-0.04	-0.07	0.17	1.00													
PC1	<b>0.76****</b>	<b>0.54**</b>	<b>-0.58**</b>	<b>0.67****</b>	0.35	0.31	1.00												
PC2	<b>0.66***</b>	<b>0.77****</b>	<b>0.41*</b>	-0.32	-0.37	-0.28	0.10	1.00											
PC3	-0.09	-0.20	-0.11	0.23	<b>0.93****</b>	-0.19	0.17	-0.30	1.00										
PC4	0.02	0.23	0.22	-0.39	0.35	<b>0.89****</b>	0.12	-0.11	0.05	1.00									
PC5	<b>0.66***</b>	0.24	0.16	<b>0.44*</b>	0.11	0.28	<b>0.54**</b>	0.19	0.00	0.14	1.00								
PC6	-0.31	0.30	0.01	0.12	0.00	-0.03	-0.02	-0.04	0.01	-0.02	<b>-0.43*</b>	1.00							
KCl-pH	0.38	0.16	-0.18	<b>0.52**</b>	0.19	-0.07	<b>0.46*</b>	0.05	0.19	-0.18	<b>0.43*</b>	-0.03	1.00						
Clay (%)	0.11	<b>0.45*</b>	-0.24	0.03	0.01	0.01	0.24	0.19	-0.03	0.03	-0.32	<b>0.49*</b>	0.22	1.00					
$\tau_{so}$	0.02	-0.25	0.19	-0.30	-0.03	-0.16	-0.26	0.09	0.04	-0.04	0.07	<b>-0.56**</b>	-0.14	-0.27	1.00				
Soil Depth (cm)	0.24	0.34	-0.23	0.05	-0.30	-0.10	0.19	0.28	-0.30	-0.18	-0.13	0.16	-0.17	0.16	-0.14	1.00			
Carbon (kg m <sup>-2</sup> )	0.01	0.14	-0.36	0.05	-0.24	0.06	0.13	-0.01	-0.28	-0.06	-0.26	0.19	0.06	<b>0.32****</b>	-0.26	<b>0.66***</b>	1.00		
Clay (kg m <sup>-2</sup> )	0.23	<b>0.45*</b>	-0.26	0.13	-0.19	0.09	0.31	0.21	-0.26	-0.01	-0.11	0.36	0.03	0.37	-0.25	<b>0.89****</b>	<b>0.73****</b>	1.00	
Na mass flux (kg m <sup>-2</sup> )	0.03	-0.16	0.32	<b>-0.44*</b>	-0.01	-0.02	-0.28	0.15	0.02	0.15	0.09	<b>-0.52**</b>	-0.07	-0.27	<b>0.62**</b>	-0.38	<b>-0.43*</b>	<b>-0.49*</b>	1.00

Pairwise correlation coefficients

Bold values are significant at P<0.05\*, P<0.01\*\*, P<0.001\*\*\*, P<0.0001\*\*\*\*

Fig. 1.

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