

Table S1. Variogram (2005, 2014) and cross-variogram (2005 × 2014) model coefficients (nugget, partial sill and range) and cross-validation mean.

Depth	Year	Model Coefficients			Cross-Validation	
		Nugget	Partial sill	Range	mean	median
0–30 cm	2005	0.003	0.016	109	0.92	0.35
	2014	0.004	0.011	109		
	2005 × 2014	0.004	0.010	109		
30–60 cm	2005	0.027	0.042	24	0.71	0.25
	2014	0.026	0.026	24		
	2005 × 2014	0.026	0.020	24		
60–90 cm	2005	0.021	0.038	39	0.93	0.40
	2014	0.020	0.032	39		
	2005 × 2014	0.020	0.025	39		
0–90 cm	2005	0.006	0.017	52	0.74	0.25
	2014	0.006	0.009	52		
	2005 × 2014	0.006	0.009	52		

Range varied from 24 to 109 m (Table S1). Nuggets varied from 0.003 to 0.027 and partial sill from 0.009 to 0.042 (Table S1); small-scale variability was low but increased with soil depth. The cross-validation results revealed that the description of the variation was poor at 30–60 cm with 0.71 as compared to the other two depths, showing, for example, for SOC stock, means of 0.92 and 0.93 at 0–30 and 60–90 cm, respectively. Furthermore, as expected, when we combined the three depths, the variation data were higher, with 0.74 for C stocks (Table S1).