Table S1: Ranking of single regression models for soil pH using AICc scores. All comparisons were done with a spatial correlation term included in the models.

	df	logLik	AICc	Δ AICc	AICc weight
Soil properties					
SED	5	-59.67	130.54	0.00	0.99
CA.sed	4	-65.12	139.02	8.48	0.01
CA.bed	4	-86.07	180.93	50.39	0.00
Topographic wetness					
SWI 1m	4	-70.82	150.42	0.00	0.51
DTW 8 ha^2	5	-70.97	153.14	2.72	0.13
DTW 2 ha	4	-72.26	153.30	2.88	0.12
DTW 4 ha	4	-72.76	154.31	3.89	0.07
DTW 1 ha	4	-72.86	154.51	4.09	0.07
SWI 30m	4	-73.28	155.35	4.93	0.04
DTW 10 ha	4	-73.66	156.10	5.68	0.03
SWI 10m	4	-74.01	156.80	6.38	0.02
SWI 5m	4	-74.29	157.36	6.94	0.02
Topographic position					
DEV 30m^2	5	-61.18	133.60	0.00	0.86
TPI 30m^2	5	-63.01	137.20	3.66	0.14
TPI 10m	4	-70.20	149.20	15.63	0.00
DEV 10m	4	-70.35	149.50	15.92	0.00