

Table S1. Basic descriptive statistics.

	A	BC	fLFOM/oL-FOM	DFOM	WSM	CEC	pHKCl	Particles <0,01 mm	C _{org}	MCC	DSS	SW	BD
Locality (GPS coordinates)		Average±SD	Average±SD	Average±SD	Average±SD	Average±SD	Average±SD	Average±SD	Average±SD	Average±SD	Average±SD	Average±SD	Average±SD
Overall		2.458±0.488	0.369±0.063	0.324±0.197	267.225±37.976	154.008±28.867	5.711±0.383	37.117±4.589	2.885±0.301	36.226±0.954	57.462±9.135	2.600±0.067	1.301±0.115
Křišťanov (48.908306 N, 14.022519 E)	No	2.407±0.015	0.455±0.021	0.410±0.009	307.667±8.595	162.500±5.683	5.238±0.044	32.167±1.169	3.267±0.054	35.152±0.076	42.900±0.518	2.537±0.020	1.127±0.020
Záhvozdí (48.835042 N, 13.957061 E)	No	2.092±0.052	0.323±0.016	0.285±0.010	279.000±13.023	149.167±6.369	5.793±0.039	40.833±2.137	3.082±0.041	36.937±0.091	45.667±0.137	2.582±0.028	1.375±0.019
Slavkov (48.765456 N, 14.249271 E)	No	2.102±0.021	0.387±0.024	0.320±0.009	294.500±10.015	158.500±8.456	5.127±0.034	42.833±1.835	3.177±0.106	37.497±0.040	57.117±0.117	2.505±0.016	1.403±0.036
Malšín (48.678958 N, 14.290926 E)	No	1.910±0.029	0.377±0.018	0.197±0.008	240.000±13.971	138.667±7.174	5.497±0.107	37.500±1.378	2.817±0.046	35.577±0.103	52.767±0.242	2.627±0.039	1.373±0.019
Jaroměř (48.696089 N, 14.539593 E)	No	2.693±0.016	0.472±0.029	0.450±0.009	331.667±10.801	179.167±7.574	6.097±0.135	32.333±1.633	3.345±0.042	34.928±0.110	60.167±0.266	2.597±0.031	1.150±0.020
Malonty (48.689106 N, 14.593298 E)	No	2.402±0.015	0.403±0.010	0.318±0.008	307.500±4.087	171.667±3.933	5.938±0.105	36.167±2.137	3.183±0.069	35.443±0.040	57.300±4.266	2.655±0.018	1.235±0.027
Pohorská ves (48.671740 N, 14.652090 E)	No	1.993±0.043	0.390±0.020	0.202±0.012	287.000±14.980	161.500±13.323	5.252±0.099	31.833±1.472	2.935±0.080	35.275±0.067	51.183±0.117	2.610±0.023	1.112±0.047
Paseky (48.739815 N, 14.749206 E)	No	1.708±0.026	0.393±0.018	0.212±0.010	252.333±14.010	247.667±6.831	5.128±0.041	44.167±1.329	2.717±0.048	37.835±0.113	44.683±0.147	2.703±0.058	1.440±0.022
Hartunkov (48.737423 N, 14.668757 E)	No	1.787±0.036	0.393±0.019	0.253±0.103	247.333±9.048	155.000±6.099	5.527±0.079	32.667±1.033	2.988±0.063	35.717±0.048	44.750±0.105	2.645±0.024	1.217±0.018
Rychnov (48.757090 N, 14.683101 E)	No	2.502±0.015	0.505±0.010	0.417±0.012	287.833±11.462	169.667±4.320	5.540±0.075	39.333±1.633	3.020±0.111	36.895±0.069	50.067±0.432	2.697±0.036	1.295±0.010
Tábor (49.416135 N, 14.713877 E)	Yes	2.403±0.027	0.302±0.018	0.325±0.010	260.833±11.703	143.000±4.690	6.198±0.047	43.000±2.280	2.803±0.036	37.392±0.033	64.267±0.186	2.573±0.036	1.393±0.016
Písek (49.319750 N, 14.210609 E)	Yes	2.107±0.022	0.290±0.014	0.383±0.021	239.833±7.834	129.167±4.355	6.507±0.034	38.000±0.894	2.660±0.073	37.073±0.073	69.600±0.126	2.587±0.016	1.352±0.013

Strakonice (49.264034 N, 13.935478 E)	Yes	2.115±0.027	0.347±0.016	0.203±0.010	215.667±10.424	119.667±8.454	5.782±0.075	32.167±0.753	2.342±0.049	36.453±0.079	58.817±0.354	2.583±0.027	1.195±0.010
Prachatice (49.011102 N, 14.017012 E)	Yes	2.997±0.062	0.418±0.008	0.262±0.010	278.500±11.415	134.000±2.966	5.513±0.056	31.000±1.265	2.702±0.046	35.043±0.110	51.683±0.319	2.518±0.008	1.102±0.041
České Budějovice 1 (48.992662 N, 14.498712 E)	Yes	3.223±0.028	0.327±0.019	0.350±0.006	287.500±9.203	148.000±5.020	5.892±0.034	40.500±2.074	2.897±0.069	37.138±0.041	60.317±0.172	2.540±0.032	1.425±0.015
České Budějovice 2 (48.974556 N, 14.523650 E)	Yes	2.793±0.014	0.290±0.013	0.197±0.014	198.333±10.520	130.333±2.338	5.688±0.054	43.333±1.633	2.472±0.127	37.517±0.027	61.350±0.138	2.567±0.029	1.448±0.010
České Budějovice 3 (48.985139 N, 14.531457 E)	Yes	2.815±0.010	0.322±0.013	0.225±0.014	189.833±6.853	118.000±3.899	6.012±0.111	38.000±1.414	2.288±0.082	35.685±0.021	70.583±0.214	2.500±0.018	1.353±0.018
Český Krumlov 1 (48.820521 N, 14.334308 E)	Yes	3.097±0.024	0.297±0.015	0.303±0.015	265.667±12.925	129.667±7.633	5.688±0.040	32.667±1.033	2.912±0.076	35.230±0.020	68.300±0.276	2.673±0.033	1.313±0.035
Český Krumlov 2 (48.810069 N, 14.338973 E)	Yes	3.503±0.049	0.307±0.014	0.440±0.014	304.500±11.811	179.500±6.317	5.525±0.068	34.500±1.049	3.290±0.029	35.547±0.058	64.517±0.117	2.615±0.026	1.322±0.012
Jindřichův Hradec (49.157802 N, 15.051820 E)	Yes	2.508±0.036	0.377±0.022	0.395±0.010	269.000±11.314	155.333±5.317	6.270±0.081	39.333±1.862	2.813±0.053	36.190±0.063	73.200±0.141	2.678±0.048	1.392±0.016

Note: A—Assumption of higher black carbon deposition; BC—black carbon (% C_{org}); fLFOM/oLFOM—the ratio of free light fraction and the occluded light fraction of soil organic matter; DFOM—the organic matter of the heavy soil fraction (% C of soil); WSM—water-stable macroaggregates [g aggregates·(kg soil after sand subtraction)⁻¹]; CEC—cation exchange capacity (mmol/kg); pH_{KCl}—soil reaction; Particles <0.01 mm—clay particles (%); C_{org}—soil organic carbon (%); MCC—maximal capillary capacity (%); DSS—degree of sorption saturation (%); SW—specific weight (g/cm³); BD—bulk density (g/cm³)

2
3
4
5
6