

Table S1. Post hoc analysis of the means of C_{mean} values in soils of traditional soil map (significant differences are shown in red).

Soils	Approximate Probabilities (p -Values) for Post Hoc Test *				
	1	2	3	4	5
	mean = 0.14009	mean = 0.14714	mean = 0.14968	mean = 0.15430	mean = 0.16013
1		0.000017	0.000017	0.000017	0.000017
2	0.000017		0.000017	0.000017	0.000017
3	0.000017	0.000017		0.000017	0.000017
4	0.000017	0.000017	0.000017		0.000017
5	0.000017	0.000017	0.000017	0.000017	

* Error: Between groups MS = 0.00004, ds = 24251.

Table S2. Post hoc analysis of the means of OM content in soils of traditional soil map (significant differences are shown in red).

Soils	Approximate Probabilities (p -Values) for Post Hoc Test *				
	1	2	3	4	5
	mean = 4.5833	mean = 4.5769	mean = 4.0265	mean = 3.5933	mean = 3.0750
1		1.000000	0.175220	0.004366	0.000158
2	1.000000		0.028544	0.000260	0.000125
3	0.175220	0.028544		0.103248	0.000574
4	0.004366	0.000260	0.103248		0.225562
5	0.000158	0.000125	0.000574	0.225562	

* Error: Between groups MS = 0.31355, ds = 71.00.

Table S3. Post hoc analysis of the means of thickness of humus horizon in soils of traditional soil map (significant differences are shown in red).

Soils	Approximate Probabilities (p -Values) for Post Hoc Test*				
	1	2	3	4	5
	mean = 83.500	mean = 81.308	mean = 63.824	mean = 52.467	mean = 36.625
1		0.997977	0.022203	0.000359	0.000125
2	0.997977		0.003324	0.000133	0.000125
3	0.022203	0.003324		0.088846	0.000185
4	0.000359	0.000133	0.088846		0.095542
5	0.000125	0.000125	0.000185	0.095542	

* Error: Between groups MS = 204.57, ds = 71.00.

Table S4. Post hoc analysis of the means of OM content in soil varieties of SIC "C" map (significant differences are shown in red).

Soils	Approximate Probabilities (<i>p</i> -Values) for Post Hoc Test *						
	1	2	3	4	5	6	7
	mean = 4.5375	mean = 4.3857	mean = 4.8500	mean = 4.3524	mean = 3.5667	mean = 3.0667	mean = 2.8250
1		0.962913	0.410283	0.777180	0.000127	0.000127	0.000127
2	0.962913		0.070294	0.999981	0.000128	0.000127	0.000127
3	0.410283	0.070294		0.004376	0.000127	0.000127	0.000127
4	0.777180	0.999981	0.004376		0.000127	0.000127	0.000127
5	0.000127	0.000128	0.000127	0.000127		0.016864	0.000132
6	0.000127	0.000127	0.000127	0.000127	0.016864		0.773709
7	0.000127	0.000127	0.000127	0.000127	0.000132	0.773709	

* Error: Between groups MS = 0.09548, ds = 69.00.

Table S5. Post hoc analysis of the means of thickness of humus horizon in soil varieties of SIC "C" map (significant differences are shown in red).

Soils	Approximate Probabilities (<i>p</i> -Values) for Post Hoc Test *						
	1	2	3	4	5	6	7
	mean = 86.375	mean = 87.143	mean = 84.625	mean = 65.476	mean = 53.778	mean = 42.500	mean = 29.000
1		0.999990	0.998400	0.000127	0.000127	0.000127	0.000127
2	0.999990		0.990018	0.000127	0.000127	0.000127	0.000127
3	0.998400	0.990018		0.000127	0.000127	0.000127	0.000127
4	0.000127	0.000127	0.000127		0.000137	0.000127	0.000127
5	0.000127	0.000127	0.000127	0.000137		0.010039	0.000127
6	0.000127	0.000127	0.000127	0.000127	0.010039		0.006104
7	0.000127	0.000127	0.000127	0.000127	0.000127	0.006104	

* Error: Between groups MS = 47.978, ds = 69.00.