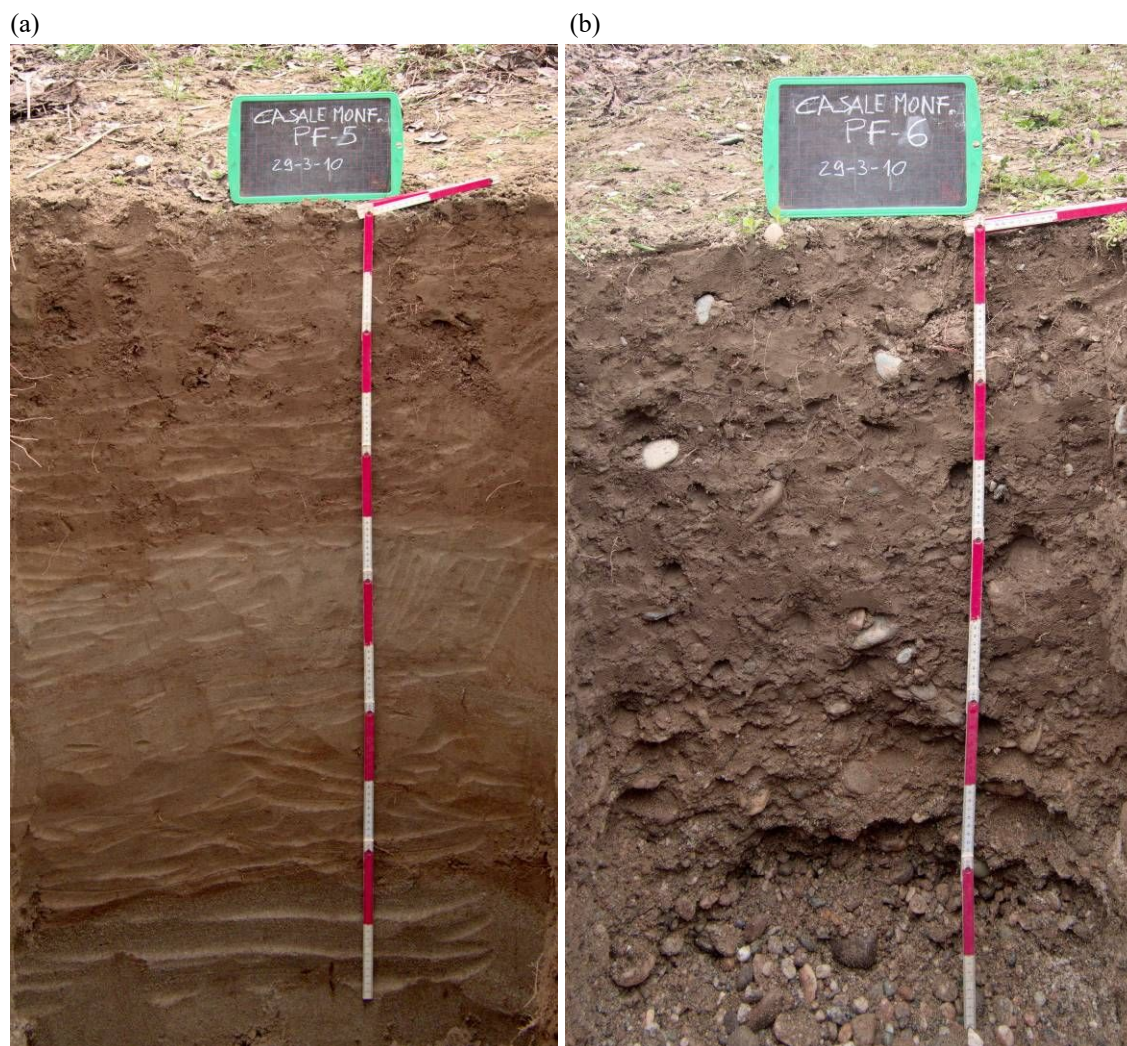


Supplementary material

Fig. S1 - Representative soil profiles: (a) Calcaric Regosol (Epiloamic, Endoarenic); (b) Endoskeletal Calcaric Regosol (Epiloamic, Endoarenic - WRB 2014).



Tab. S1 – Main characteristics of soil profiles: Calcaric Regosol (Epiloamic, Endoarenic). (N): total nitrogen; (OC): organic carbon; (CEC): cation exchange capacity; (K): exchangeable K.

Horiz.	Depth cm	Bulk density g cm ⁻³	N %	OC %	C/N	pH water	pH KCl	CEC meq/100g	K meq/100g	Sand g kg ⁻¹	Silt g kg ⁻¹	Clay g kg ⁻¹
Ap1	0-15	1.33	0.07	0.69	10.0	7.8	7.3	9.19	0.05	580	365	55
Ap2	15-34	1.32	0.08	0.83	9.8	7.9	7.2	5.77	0.05	570	385	45
Ap3	34-55	1.33	0.05	0.56	10.2	7.8	7.3	3.82	0.06	540	400	60
C1	55-104	1.37	0.02	0.25	11.2	8.2	7.6	0.7	0.03	779	194	27
C2	104-130	1.46	0	0.07	-	8.2	8.0	0.37	0.01	986	10	4

Tab. S2 - Main characteristics of soil profiles: Endoskeletal Calcaric Regosol (Epiloamic, Endoarenic). (N): total nitrogen; (OC): organic carbon; (CEC): cation exchange capacity; (K): exchangeable K.

Horiz.	Depth cm	Bulk density g cm ⁻³	N %	OC %	C/N	pH water	pH KCl	CEC meq/100g	K meq/100g	Sand g kg ⁻¹	Silt g kg ⁻¹	Clay g kg ⁻¹
Ap1	0-18	1.30	0.07	0.72	10.6	7.8	7.4	3.73	0.06	475	475	50
Ap2	18-60	1.27	0.07	0.75	10.3	7.9	7.3	3.72	0.06	510	435	55
C1	60-75	1.38	0.02	0.22	10.1	8.2	7.7	1.72	0.01	881	89	30
C2	75-100	1.47	0	0.06	-	8.2	8.1	0.21	0.05	982	10	8