

Table S1. Mean \pm st.err. of pH, SOM (%) and carbonate (%) in each site. With windthrow sites in red. no-windthrow sites in orange and meadows in green.

Site	pH	SOM	Carbonate
CA1	5.05 \pm 0.28	61.81 \pm 18.72	1.37 \pm 0.20
CA2	5.25 \pm 0.68	54.05 \pm 18.82	1.07 \pm 0.43
M1	5.59 \pm 0.52	34.43 \pm 3.37	1.31 \pm 0.06
M2	4.40 \pm 0.26	77.40 \pm 2.18	0.51 \pm 0.08
SN1	5.39 \pm 0.35	28.21 \pm 5.41	1.23 \pm 0.05
SN2	6.03 \pm 0.05	26.65 \pm 3.23	1.61 \pm 0.05
SN3	5.68 \pm 0.04	33.75 \pm 4.67	1.42 \pm 0.12
SN4	4.69 \pm 0.04	63.59 \pm 3.59	1.02 \pm 0.08
SN5	5.55 \pm 0.29	29.46 \pm 4.55	1.55 \pm 0.21
SN6	4.93 \pm 0.22	40.38 \pm 8.23	1.56 \pm 0.37
SN7	4.82 \pm 0.08	65.80 \pm 9.96	0.98 \pm 0.21
SN8	6.69 \pm 0.26	81.92 \pm 3.65	4.18 \pm 0.71
SN9	5.00 \pm 0.22	25.29 \pm 6.04	2.10 \pm 0.24
SN10	4.65 \pm 0.08	63.99 \pm 16.28	1.19 \pm 0.27
SN11	5.25 \pm 0.30	24.71 \pm 1.88	1.74 \pm 0.03

Table S2. Mean \pm st.err. of the OTUs abundances (ind./m²) in each site. a) CA. b) M and c) SN localities. With windthrow sites in red. no-windthrow sites in orange and meadows in green.

a)	CA1			CA2		
Acarina (non Oribatida)	3071.27	\pm	1229.65	3524.18	\pm	1510.02
Acarina (Oribatida)	3694.02	\pm	857.21	4302.61	\pm	1739.23
Araneida	7.08	\pm	7.08	7.08	\pm	7.08
Chilopoda	28.31	\pm	18.72	49.54	\pm	30.85
Coleoptera adults	21.23	\pm	21.23	21.23	\pm	12.26
Coleoptera larvae	84.92	\pm	21.23	169.84	\pm	76.55
Collembola	1450.72	\pm	708.94	629.82	\pm	374.46
Diplopoda	183.99	\pm	152.27	7.08	\pm	7.08
Diplura	-			7.08	\pm	7.08
Diptera larvae	28.31	\pm	18.72	77.84	\pm	39.40
Hemiptera	21.23	\pm	0.00	7.08	\pm	7.08
Hymenoptera	-			-		
Orthoptera	-			-		
Paupoda	-			-		
Protura	14.15	\pm	7.08	99.07	\pm	99.07
Psocoptera	7.08	\pm	7.08	-		
Symphyla	14.15	\pm	14.15	21.23	\pm	12.26
Thysanoptera	7.08	\pm	7.08	7.08	\pm	7.08
b)	MO1			MO2		
Acarina (non Oribatida)	1818.70	\pm	1095.65	1903.62	\pm	705.43
Acarina (Oribatida)	2979.28	\pm	1569.51	5866.56	\pm	3329.85
Araneida	106.15	\pm	74.56	7.08	\pm	7.08
Chilopoda	99.07	\pm	37.45	-		
Coleoptera adults	99.07	\pm	37.45	92.00	\pm	30.85
Coleoptera larvae	42.46	\pm	12.26	155.69	\pm	57.93
Collembola	2370.68	\pm	1057.98	2858.97	\pm	1216.26
Diplopoda	7.08	\pm	7.08	7.08	\pm	7.08
Diplura	-			-		
Diptera larvae	56.61	\pm	37.45	113.23	\pm	30.85
Hemiptera	7.08	\pm	7.08	42.46	\pm	21.23
Hymenoptera	14.15	\pm	14.15	7.08	\pm	7.08
Orthoptera	-			-		
Paupoda	-			-		
Protura	7.08	\pm	7.08	-		
Psocoptera	-			7.08	\pm	7.08
Symphyla	7.08	\pm	7.08	-		
Thysanoptera	7.08	\pm	7.08	-		

c)	SN1	SN2	SN3	SN4	SN5	SN6	SN7	SN8	SN9	SN10	SN11
Acarina (non Oribatida)	2384.84±241.85	9992.25±5287.95	1585.17±717.47	1974.39±489.67	1967.31±71.82	3665.71±1353.03	1712.55±497.94	3573.72±1514.26	566.13±324.83	113.23±83.43	254.76±76.55
Acarina (Oribatida)	3134.96±1290.05	6843.14±2455.51	1344.57±740.96	2292.84±1191.97	4868.75±661.70	2257.46±1130.47	4939.51±2953.09	2738.67±1031.13	1082.73±694.56	70.77±60.46	183.99±99.83
Araneida	28.31±28.31	42.46±32.43	63.69±53.43	134.46±39.40	-	106.15±63.69	-	7.08±7.08	-	-	-
Chilopoda	7.08±7.08	7.08±7.08	-	127.38±36.77	35.38±7.08	-	35.38±18.72	7.08±7.08	7.08±7.08	-	-
Coleoptera adults	42.46±42.46	21.23±0.00	92.00±37.45	14.15±7.08	49.54±7.08	106.15±32.43	35.38±18.72	56.61±18.72	35.38±18.72	49.54±30.85	-
Coleoptera larvae	56.61±37.45	21.23±21.23	42.46±12.26	63.69±24.51	77.84±14.15	212.30±85.80	28.31±14.15	113.23±81.61	134.46±113.23	42.46±32.43	7.08±7.08
Collembola	3156.19±1391.14	7664.03±6634.60	1655.94±546.37	3488.80±1179.83	2243.30±418.24	4345.07±2392.07	9539.35±7569.58	2179.61±880.16	325.53±178.61	6545.92±4325.62	1033.19±271.97
Diplopoda	49.54±25.52	14.15±14.15	28.31±28.31	35.38±35.38	49.54±18.72	21.23±12.26	42.46±24.51	92.00±81.61	14.15±7.08	-	14.15±14.15
Diplura	-	-	-	-	-	-	-	-	-	-	-
Diptera larvae	14.15±7.08	14.15±7.08	35.38±18.72	7.08±7.08	70.77±37.45	77.84±49.54	77.84±14.15	155.69±77.84	-	21.23±12.26	21.23±21.23
Hemiptera	509.52±345.16	7.08±7.08	35.38±7.08	42.46±24.51	3297.73±2441.31	70.77±51.03	35.38±7.08	261.84±166.41	7.08±7.08	-	49.54±49.54
Hymenoptera	-	-	92.00±92.00	-	7.08±7.08	77.84±77.84	-	35.38±7.08	14.15±14.15	-	-
Orthoptera	7.08±7.08	-	-	-	-	-	-	-	-	-	-
Pauropoda	-	-	7.08±7.08	-	-	-	-	-	-	-	-
Protura	-	14.15±14.15	-	63.69±32.43	7.08±7.08	63.69±53.43	7.08±7.08	7.08±7.08	14.15±7.08	-	14.15±7.08
Psocoptera	-	-	-	49.54±49.54	-	14.15±14.15	-	14.15±14.15	-	7.08±7.08	-
Symphyla	21.23±21.23	7.08±7.08	7.08±7.08	49.54±25.52	21.23±21.23	56.61±30.85	14.15±7.08	7.08±7.08	14.15±7.08	7.08±7.08	7.08±7.08
Thysanoptera	7.08±7.08	7.08±7.08	162.76±57.93	28.31±28.31	-	-	-	7.08±7.08	7.08±7.08	-	-

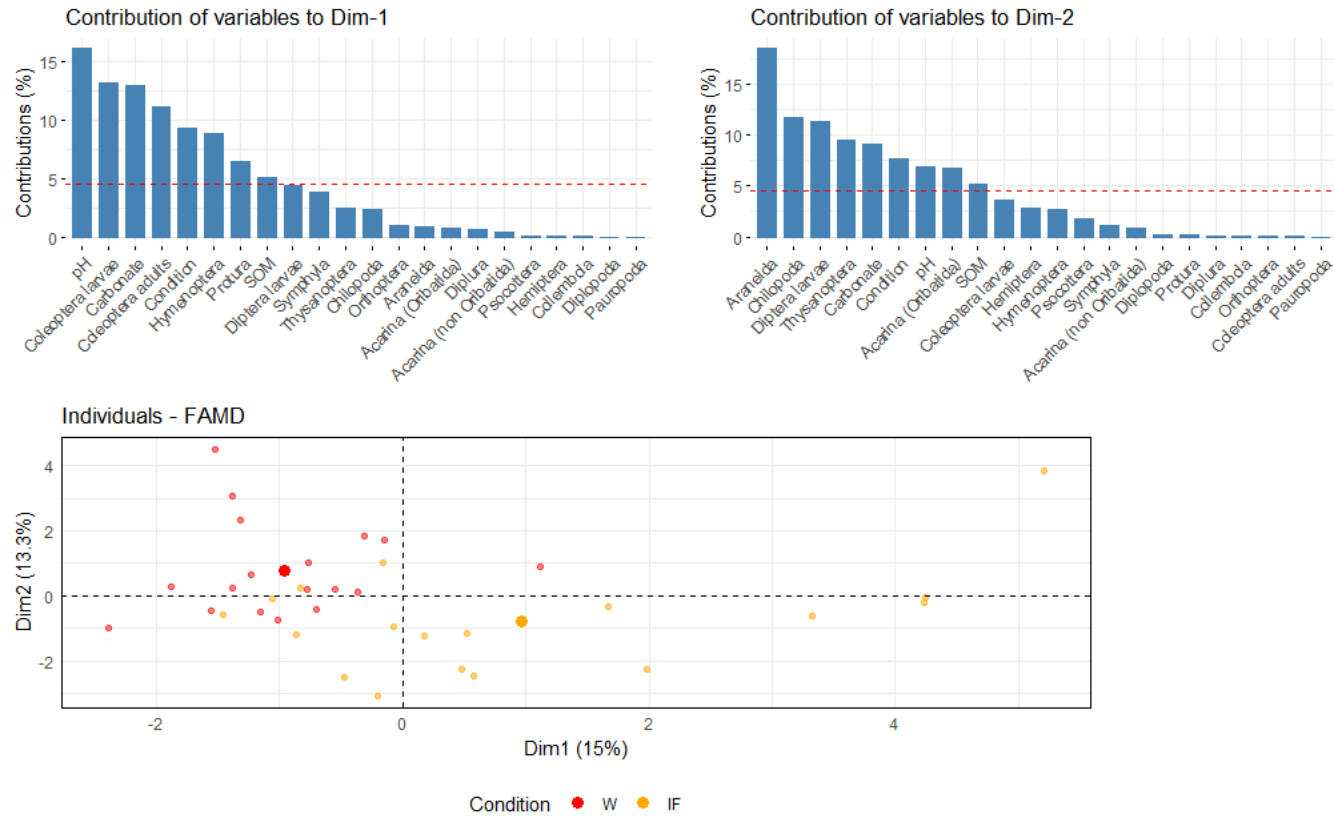


Figure S1. FAMD output. **(a)** and **(b)** show the contribution of variables to the dimensions 1 and 2 respectively. The red dashed line indicates the expected average value if the contributions were uniform. In **(c)** the results for qualitative variables are shown.