

Supplementary Table S3

Ecology, threats and conservation status of *Carex buekii* (Cyperaceae) in Central Europe

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Results of Kruskal–Wallis test and *post hoc* Dunn's multiple comparisons test, showing significance of differences in habitat conditions at *Carex buekii* sites sampled. P – Poland, CR - Czech Republic, S – Slovakia, H – Hungary, I – Italy; C/N – ratio between organic carbon and nitrogen; org. mat. – organic matter content; pH – soil pH; Ca – calcium; Mg – magnesium; P – phosphorus; K – potassium; ECe – electrolytic conductivity; H - values critical, p - statistical significance. Significance level $p \leq 0.05$ marked in bold.

Environmental variables	Kruskal-Wallis test		Dunn's multiple comparisons test									
	<i>H</i>	<i>p</i>	P-CR	P-S	P-H	P-I	CR-S	CR-H	CR-I	S-H	S-I	H-I
			<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>
elevation [a.s.l.]	45.22	0.0000	0.0000	0.0000	0.0005	0.0121	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
precipitation [mm]	29.60	0.0000	1.0000	0.0417	0.0042	0.0004	0.2812	0.0406	0.0022	1.0000	0.1409	0.4462
temperature [°C]	26.73	0.0000	0.1402	1.0000	0.0062	0.0004	1.0000	1.0000	0.0697	0.1179	0.0034	0.3518
pH	20.35	0.0004	1.0000	0.0002	0.3334	1.0000	0.0212	1.0000	1.0000	0.4324	0.2629	1.0000
K [mg/kg]	19.18	0.0007	1.0000	1.0000	0.0131	0.0359	1.0000	0.1498	0.1409	0.0239	0.0514	1.0000
silt	18.05	0.0012	0.1212	1.0000	1.0000	1.0000	0.0047	0.0013	1.0000	1.0000	1.0000	1.0000
clay	17.88	0.0013	0.0434	0.0095	1.0000	0.0788	1.0000	0.5099	1.0000	0.1703	1.0000	0.3215
C/N	17.13	0.0018	1.0000	0.7598	0.0020	0.1499	1.0000	0.0838	0.7155	0.4472	1.0000	1.0000
sand	16.35	0.0026	0.0181	1.0000	1.0000	1.0000	0.0607	0.0035	1.0000	1.0000	1.0000	1.0000
Ca [mg/kg]	16.22	0.0027	1.0000	0.0121	0.0553	1.0000	1.0000	1.0000	1.0000	1.0000	0.1046	0.2055
Mg [mg/kg]	15.46	0.0038	0.2619	0.0412	0.0019	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
P [mg/kg]	8.56	0.073	1.0000	1.0000	0.2200	0.8247	1.0000	0.7326	1.0000	0.3346	1.0000	1.0000
Ece [dS/m]	8.01	0.0913	1.0000	1.0000	1.0000	0.6752	1.0000	1.0000	0.4120	0.5196	1.0000	0.2148
org. mat [%]	7.45	0.1139	1.0000	0.0953	1.0000	1.0000	1.0000	1.0000	1.0000	0.5439	1.0000	1.0000