

Supplementary Table S2. Results of Tukey's HSD parametric test applied to test location and side effect (for each location pair and side pair) for phylogenetic alpha diversity indices (PD and PSV) and functional richness metric (FRic), separately.

Metric	Side	Location pairs	diff	lwr	upr	pval
PD	light	Marasovine-Krka spring	3.370	-19.201	25.941	0.970
PD	light	Roski slap-Krka spring	21.200	1.873	40.531	0.029
PD	light	Skradinski buk-Krka spring	39.500	21.142	58.004	0.000
PD	light	Roski slap-Marasovine	17.800	-5.480	41.143	0.168
PD	light	Skradinski buk-Marasovine	36.200	13.630	58.772	0.002
PD	light	Skradinski buk-Roski slap	18.300	-0.959	37.698	0.066
PD	dark	Marasovine-Krka spring	7.460	-20.370	35.292	0.866
PD	dark	Roski slap-Krka spring	29.600	9.036	50.315	0.004
PD	dark	Skradinski buk-Krka spring	44.700	25.070	64.429	0.000
PD	dark	Roski slap-Marasovine	22.200	-6.303	50.732	0.155
PD	dark	Skradinski buk-Marasovine	37.200	9.458	65.119	0.008
PD	dark	Skradinski buk-Roski slap	15.070	-5.565	35.714	0.196
PSV	light	Roski slap-Skradinski buk	0.025	0.011	0.040	0.001
PSV	light	Krka spring-Skradinski buk	0.037	0.023	0.051	0.000
PSV	light	Marasovine-Skradinski buk	0.037	0.021	0.054	0.000
PSV	light	Krka spring-Roski slap	0.011	-0.003	0.026	0.149

PSV	light	Marasovine-Roski slap	0.012	-0.005	0.030	0.233
PSV	light	Marasovine-Krka spring	0.001	-0.016	0.018	0.990
PSV	dark	Roski slap-Skradinski buk	0.015	-0.009	0.039	0.294
PSV	dark	Marasovine-Skradinski buk	0.025	-0.007	0.058	0.151
PSV	dark	Krka spring-Skradinski buk	0.047	0.024	0.069	0.000
PSV	dark	Marasovine-Roski slap	0.010	-0.023	0.043	0.816
PSV	dark	Krka spring-Roski slap	0.031	0.008	0.055	0.009
PSV	dark	Krka spring-Marasovine	0.021	-0.011	0.054	0.263
Fric	light	Marasovine-Krka spring	2.833	-18.149	23.815	0.979
Fric	light	Roski slap-Krka spring	31.633	13.665	49.601	0.001
Fric	light	Skradinski buk-Krka spring	45.333	28.201	62.465	0.000
Fric	light	Roski slap-Marasovine	28.800	7.130	50.470	0.008
Fric	light	Skradinski buk-Marasovine	42.500	21.517	63.482	0.000
Fric	light	Skradinski buk-Roski slap	13.700	-4.268	31.668	0.171
Fric	dark	Marasovine-Krka spring	15.000	-16.679	46.667	0.538
Fric	dark	Roski slap-Krka spring	41.200	17.706	64.699	0.001
Fric	dark	Skradinski buk-Krka spring	51.500	29.099	73.901	0.000
Fric	dark	Roski slap-Marasovine	26.200	-6.261	58.662	0.136
Fric	dark	Skradinski buk-Marasovine	35.500	4.820	68.179	0.022

Fric	dark	Skradinski buk-Roski slap	10.300	-13.193	33.794	0.598
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