

Electronic Appendix 7. Descriptive statistics of bioclimatic variables for the associations of thermophilous oak forests in Slovakia.
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Alliance		Quercion pubescenti-petraeae								Aceri tatarici-Quercion				Quercion petraeae									
Cluster		1		2		3		4		5		6		7		8		9		10		11	
Association		Lithospermo purpureoacerulei-Quercetum pubescentis		Seslerio albicantis-Quercetum pubescentis		Fraxino orni-Quercetum pubescentis		Euphorbio-Quercetum		Quercetum pubescenti-roboris		Convallario-Quercetum roboris		Carici fritschii-Quercetum roboris		Sorbo torminalis-Quercetum		Genisto pilosae-Quercetum petraeae		Melico pictae-Quercetum		Quercetum petraeae-cerridis	
		Mean		Mean		Mean		Mean		Mean		Mean		Mean		Mean		Mean		Mean		Mean	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
		Std. Dev.		Std. Dev.		Std. Dev.		Std. Dev.		Std. Dev.		Std. Dev.		Std. Dev.		Std. Dev.		Std. Dev.		Std. Dev.		Std. Dev.	
		N = 205		N = 138		N = 28		N = 220		N = 32		N = 65		N = 12		N = 222		N = 20		N = 49		N = 93	
Bio1	Annual Mean Temperature	8.75		8.18		9.06		8.37		9.82		9.49		9.54		8.22		8.07		8.67		9.33	
		7.43	9.76	6.61	9.29	7.51	10.28	5.66	10.35	8.49	10.39	7.72	10.47	9.27	9.66	4.59	10.35	7.55	8.70	6.97	9.97	8.20	10.28
		0.40		0.47		0.85		0.60		0.34		0.71		0.10		0.84		0.35		0.61		0.64	
		Tukey HSD test; $\alpha = 0.05$: a b a																					
Bio2	Mean Diurnal Range	8.25		8.17		8.54		8.66		8.98		8.79		8.30		8.72		8.80		8.89		9.13	
		7.53	9.39	7.40	9.19	7.91	9.12	7.52	9.81	7.89	9.73	7.32	10.20	8.22	8.65	7.36	10.11	8.31	9.31	7.67	10.28	7.72	9.93
		0.50		0.30		0.38		0.41		0.38		0.57		0.12		0.53		0.21		0.61		0.47	
		Tukey HSD test; $\alpha = 0.05$: b a a																					
Bio3	Isothermality	28.35		28.65		28.37		28.89		29.27		29.18		28.11		29.28		29.35		29.01		29.26	
		27.20	30.19	27.88	29.94	26.99	29.82	26.96	31.99	27.03	30.13	27.46	31.00	28.02	28.55	26.98	32.23	28.85	29.94	27.00	31.14	26.98	30.56
		0.67		0.37		0.85		0.63		0.72		0.70		0.14		1.04		0.24		0.89		0.75	
		Tukey HSD test; $\alpha = 0.05$: b a a																					
Bio4	Temperature Seasonality	754.43		733.82		778.16		768.00		784.04		766.95		753.89		762.61		763.79		780.60		793.09	
		726.78	805.13	710.22	782.05	732.72	810.33	692.63	808.78	764.71	819.44	714.61	823.09	747.62	768.62	673.83	828.98	749.34	779.77	727.47	817.97	749.21	826.65
		20.07		9.91		19.48		20.51		17.08		24.19		6.15		24.55		7.55		26.73		20.53	
		Tukey HSD test; $\alpha = 0.05$: b a a																					
Bio5	Max Temperature of Warmest Month	22.20		21.42		22.98		22.17		23.95		23.39		23.38		21.99		22.12		22.76		23.67	
		20.50	23.90	19.10	23.10	21.20	24.30	18.40	24.90	22.40	25.10	20.30	25.70	23.10	23.60	16.80	25.60	21.20	23.40	20.10	24.90	21.80	25.40
		0.69		0.78		0.93		0.83		0.49		1.21		0.12		1.07		0.62		0.87		0.83	
		Tukey HSD test; $\alpha = 0.05$: a c b																					
Bio6	Min Temperature of Coldest Month	-6.86		-7.09		-7.12		-7.81		-6.73		-6.70		-6.16		-7.78		-7.87		-7.88		-7.52	
		-8.50	-6.00	-8.50	-6.60	-8.50	-6.20	-8.80	-5.50	-7.90	-5.30	-8.00	-5.70	-6.70	-6.00	-9.80	-5.70	-8.10	-7.50	-9.80	-5.60	-8.70	-5.80
		0.82		0.29		0.78		0.77		0.45		0.49		0.22		0.85		0.14		0.95		0.61	
		Tukey HSD test; $\alpha = 0.05$: b c a																					
Bio7	Temperature Annual Range	29.07		28.50		30.10		29.98		30.67		30.10		29.53		29.77		29.99		30.63		31.19	
		27.20	31.90	26.20	31.00	28.50	31.40	26.80	32.50	29.20	32.30	26.30	33.10	29.30	30.30	25.90	33.00	28.80	31.40	28.10	33.00	28.60	32.80
		1.22		0.79		0.78		1.08		0.68		1.33		0.26		1.16		0.62		1.41		0.95	
		Tukey HSD test; $\alpha = 0.05$: b a a																					
Bio8	Mean Temperature of Wettest Quarter	17.61		16.25		17.18		16.57		18.48		18.36		18.68		16.60		16.02		17.13		17.50	
		15.28	19.03	15.43	17.48	15.38	18.62	12.72	19.05	16.50	19.87	15.60	19.48	18.50	18.85	12.80	19.22	15.33	16.87	14.53	18.95	16.17	18.82
		0.67		0.55		0.91		0.94		0.75		1.13		0.10		1.18		0.45		0.92		0.77	
		Tukey HSD test; $\alpha = 0.05$: a b a																					
Bio9	Mean Temperature of Driest Quarter	0.78		0.38		0.86		0.23		1.64		1.45		1.62		0.18		0.13		0.46		1.03	
		-0.53	1.82	-1.00	1.20	-0.48	1.77	-1.82	1.88	0.22	2.33	-0.20	2.13	1.27	1.73	-2.78	1.88	-0.28	0.60	-0.80	1.80	0.00	1.70
		0.45		0.39		0.71		0.60		0.32		0.58		0.14		0.76		0.29		0.56		0.54	
		Tukey HSD test; $\alpha = 0.05$: a b a																					
Bio10	Mean Temperature of Warmest Quarter	17.90		17.12		18.53		17.65		19.34		18.81		18.68		17.47		17.41		18.09		18.94	
		16.43	19.03	15.43	18.58	16.78	20.18	14.15	20.13	17.90	20.23	16.80	20.43	18.50	18.85	12.80	20.50	16.77	18.20	16.02	19.93	17.60	20.40
		0.48		0.54		1.05		0.69		0.49		0.95		0.10		1.00		0.43		0.78		0.85	
		Tukey HSD test; $\alpha = 0.05$: a c b																					
Bio11	Mean Temperature of Coldest Quarter	-0.66		-0.91		-0.67		-1.26		0.05		-0.05		0.13		-1.30		-1.33		-1.15		-0.62	
		-1.97	0.32	-2.33	-0.30	-1.90	0.17	-2.78	0.42	-1.35	0.90	-1.62	0.75	-0.17	0.22	-3.65	0.22	-1.73	-0.97	-2.28	0.28	-1.53	0.15
		0.52		0.37		0.67		0.62		0.34		0.50		0.13		0.73		0.25		0.60		0.52	
		Tukey HSD test; $\alpha = 0.05$: b c a																					
Bio12	Annual Precipitation	705.84		712.14		610.25		619.14		587.88		614.03		696.58		675.55		697.05		615.51		583.34	
		523.00	845.00	558.00	892.00	557.00	752.00	523.00	783.00	541.00	698.00	534.00	792.00	655.00	825.00	541.00	926.00	637.00	746.00	523.00	786.00	551.00	666.00
		85.99		51.19		60.19		73.36		38.98		61.33		57.00		75.82		34.88		66.84		29.12	
		Tukey HSD test; $\alpha = 0.05$: c a b																					

Bio13	Precipitation of Wettest Month	93.68		90.52		72.18		83.98		70.75		75.05		99.83		86.42		82.85		81.82		71.14	
		72.00	123.00	76.00	115.00	62.00	92.00	61.00	110.00	61.00	88.00	61.00	99.00	94.00	121.00	61.00	132.00	77.00	89.00	64.00	98.00	63.00	85.00
		11.38		6.06		8.98		7.78		6.63		9.90		8.48		10.22		3.76		8.65		5.85	
	Tukey HSD test; $\alpha = 0.05$:	c						a						b									
Bio14	Precipitation of Driest Month	34.27		38.33		32.79		29.27		31.06		32.75		31.42		34.75		39.25		29.53		30.37	
		22.00	42.00	24.00	50.00	26.00	44.00	22.00	42.00	26.00	36.00	28.00	42.00	29.00	37.00	23.00	52.00	35.00	43.00	23.00	45.00	25.00	40.00
		5.44		3.82		4.50		6.23		2.31		3.43		2.64		6.09		2.57		6.01		3.14	
	Tukey HSD test; $\alpha = 0.05$:	a						a						a									
Bio15	Precipitation Seasonality	34.91		28.45		25.21		35.50		26.37		26.98		40.98		30.10		22.71		34.29		26.90	
		22.68	43.28	25.70	40.65	21.37	34.55	20.58	42.60	22.65	35.13	21.61	35.58	39.28	42.03	21.21	44.84	22.10	23.70	20.47	43.13	21.76	39.79
		4.38		1.78		4.24		6.27		2.97		3.03		0.64		6.61		0.42		7.64		4.87	
	Tukey HSD test; $\alpha = 0.05$:	c						a						b									
Bio16	Precipitation of Wettest Quarter	263.01		243.55		200.61		228.00		197.38		208.23		279.00		235.56		221.70		224.49		196.41	
		195.00	341.00	203.00	311.00	177.00	246.00	173.00	310.00	173.00	253.00	172.00	287.00	262.00	336.00	173.00	361.00	205.00	237.00	181.00	283.00	176.00	235.00
		36.83		16.88		20.94		22.35		20.84		27.25		23.92		28.25		10.24		25.22		14.06	
	Tukey HSD test; $\alpha = 0.05$:	c						a						b									
Bio17	Precipitation of Driest Quarter	108.75		117.10		102.82		91.28		97.94		102.37		103.42		108.35		122.55		92.45		95.77	
		69.00	134.00	75.00	153.00	81.00	136.00	70.00	130.00	81.00	116.00	89.00	133.00	96.00	124.00	72.00	161.00	109.00	132.00	71.00	140.00	78.00	123.00
		18.10		11.37		13.40		18.60		7.37		10.29		9.28		18.53		7.69		18.34		9.12	
	Tukey HSD test; $\alpha = 0.05$:	a						a						a									
Bio18	Precipitation of Warmest Quarter	262.11		243.04		192.57		223.58		194.53		207.11		279.00		232.70		219.60		220.35		187.68	
		194.00	341.00	203.00	311.00	170.00	246.00	166.00	310.00	166.00	253.00	166.00	287.00	262.00	336.00	166.00	361.00	202.00	236.00	174.00	283.00	170.00	235.00
		38.10		17.36		22.66		24.61		22.67		28.52		23.92		30.08		11.02		28.34		12.32	
	Tukey HSD test; $\alpha = 0.05$:	c						a						b									
Bio19	Precipitation of Coldest Quarter	119.67		133.51		114.36		100.22		111.09		115.66		108.25		120.23		137.75		101.88		106.43	
		74.00	143.00	79.00	175.00	85.00	151.00	74.00	147.00	85.00	126.00	103.00	146.00	100.00	129.00	76.00	178.00	123.00	149.00	76.00	155.00	83.00	132.00
		19.13		13.18		16.33		23.74		6.90		10.38		10.07		20.88		8.37		21.97		12.65	
	Tukey HSD test; $\alpha = 0.05$:	a						a						a									