

Kuhn T. & Ruprecht E. (2023) Niche breadth and overlap of pseudogamous apomictic *Crataegus* hybrids and their progenitors in north-western Romania. – Preslia 95: 447–474.

Supplementary Table S2: Conditional, constrained and unconstrained variance fractions explained by full and reduced pCCA models (*Crataegus* taxa composition included as independent term; predictors: bio_4 - temperature seasonality; bio_6 - minimum temperature of coldest month; bio_15 - precipitation seasonality; CWB4 - climatic water balance in April; CWB8 - climatic water balance in August; DFE - distance to nearest forest-edge; FED - forest-edge density; GFB - grassland - forest balance; HI – heat index; canopy – canopy cover ; Shrub – shrub layer cover; Herb – herb layer cover; US – soil moisture; TS - temperature; RS – soil reaction; NB – nitrogen content).

		full pCCA model	reduced pCCA model		
Macroenvironment	Climate	formula: .~ bio_4 + bio_6 + bio_15 + CWB4 + CWB8 + Condition(Habitat)	formula: .~ CWB4 + CWB8 + Condition(Habitat)		
		Conditional variance (%)	12.53	Conditional variance (%)	12.53
		Constrained variance (%)	10.1	Constrained variance (%)	8.03
	Unconstrained variance (%)	77.37	Unconstrained variance (%)	79.43	
	Landscape configuration	formula: .~ GFB + FED + DFE + Condition(Habitat)	formula: .~ GFB + FED + Condition(Habitat)		
		Conditional variance (%)	12.53	Conditional variance (%)	12.53
Constrained variance (%)		5.19	Constrained variance (%)	4.35	
Unconstrained variance (%)	82.27	Unconstrained variance (%)	83.11		
Microenvironment	formula: .~ canopy + HI + Herb + Shrub + US + TS + RS + NB + Condition(Region)	formula: .~ canopy + Condition(Region)			
	Conditional variance (%)	13.53	Conditional variance (%)	13.53	
	Constrained variance (%)	11.6	Constrained variance (%)	7.83	
Unconstrained variance (%)	74.86	Unconstrained variance (%)	78.63		