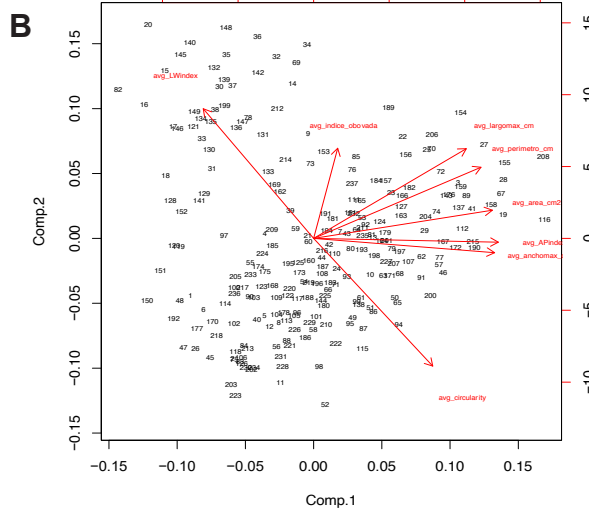
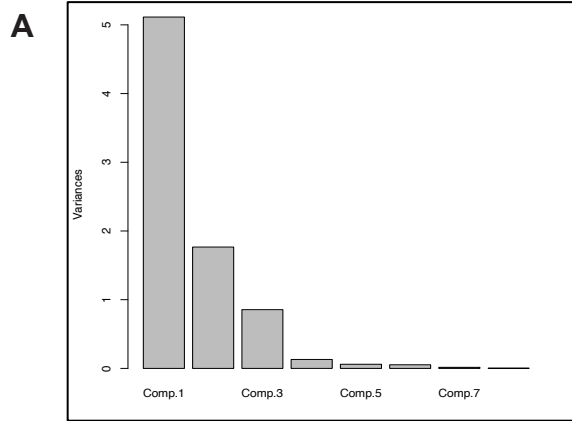


Supplementary file 5. Principal Component Analysis (PCA) of foliar variation in *Euphorbia tithymaloides*.

Supplementary file 5.1. Loadings of the variables on the axis from a PCA on leaf morphology for *Euphorbia tithymaloides*.

Variable	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8
Lmax (cm)	0.3628	0.3813	0.1669	0.4971	0.3949	0.0788	0.5299	0.0713
Wmax (cm)	0.4302	-0.0607	0.0459	-0.1852	0.1795	-0.8495	-0.0830	-0.1188
Area (cm ²)	0.4248	0.1198	0.0885	-0.3668	-0.6193	0.1598	0.4153	-0.2851
Perimeter (cm)	0.3977	0.3023	0.1213	0.2007	-0.0049	0.2614	-0.7020	-0.3665
Leaf aspect ratio (L/W)	-0.2622	0.5510	0.2414	-0.6358	0.3939	0.0715	0.0086	-0.0691
A/P ratio	0.4389	-0.0162	0.0183	-0.2595	-0.0010	0.1846	-0.1879	0.8185
Obovate index	0.0572	0.3831	-0.9201	-0.0405	0.0069	-0.0387	0.0141	-0.0034
Circularity	0.2830	-0.5428	-0.2056	-0.2656	0.5226	0.3709	0.1065	-0.3007
Standard deviation	2.2613	1.3290	0.9246	0.3608	0.2465	0.2321	0.1258	0.0679
Proportion of variance	0.6392	0.2208	0.1069	0.0163	0.0076	0.0067	0.0020	0.0006
Cumulative proportion	0.6392	0.8600	0.9669	0.9831	0.9907	0.9974	0.9994	1.0000



Supplementary file 5.2. **A.** Biplot showing cumulative variance across PCs. **B.** Space of morphological variation according to PC1 and PC2, with variables mapped onto it.