**Supplementary file 8.** Results from linear models examining climatic variation as a predictor of variation in leaf morphospace in *Euphorbia tithymaloides*.

| x | y | estimate | intercept | adj $R^2$ | p value | | F |
|---|---|---|---|---|---|---|---|
| Morphology PC 1 (residuals) | **climate PC 1** | **0.1360** | **-0.0064** | **0.028** | **0.007** | ** | **7.49** |
| | climate PC 2 | -0.0630 | -0.0022 | 0.002 | 0.230 | ns | 1.45 |
| | **climate PC 3** | **-0.1525** | **-0.0121** | **0.014** | **0.040** | * | **4.27** |
| Morphology PC 2 (residuals) | **climate PC 1** | **0.0505** | **-0.0024** | **0.016** | **0.033** | * | **4.61** |
| | **climate PC 2** | **-0.0594** | **-0.0021** | **0.021** | **0.016** | * | **5.91** |
| | climate PC 3 | -0.0062 | -0.0005 | -0.004 | 0.859 | ns | 0.03 |
| Morphology PC 3 (residuals) | climate PC 1 | 0.0150 | -0.0007 | -0.003 | 0.525 | ns | 0.41 |
| | **climate PC 2** | **-0.0573** | **-0.0020** | **0.020** | **0.019** | * | **5.62** |
| | climate PC 3 | 0.0245 | 0.0020 | -0.002 | 0.480 | ns | 0.50 |