**S1 Table**.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Df** | **SumsOfSqs** | **MeanSqs** | **F.Model** | **R2** | **Pr(>F)** |
| **Site (Cabra/Alfacar/Cahorros)** | 2 | 1.7740 | 0.88702 | 2.7180 | 0.13843 | **0.001\*\*** |
| **Use (climbed/unclimbed)** | 1 | 1.2827 | 1.28274 | 3.9305 | 0.10009 | **0.001\*\*** |
| **Site \* Use** | 2 | 0.9476 | 0.47378 | 1.4517 | 0.07394 | **0.044 \*\*** |
| Residuals | 27 | 8.8115 | 0.32635 |  | 0.68755 |  |

Table S2. Results of the permutation test performed after the variables of CCA. CCA1-CCA2= CCA scores of the first two canonical axes. R2 of the model. P-values obtained after permutation test (n permutations=999) as follows: \*\*p< 0.01; \*\*\*p< 0.001.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variable** | **CCA1** | **CCA2** | **R2** | **Pr(>r)** |
| Alcandora | -0.33741 | 0.94136 | 0.5618 | **0.000999\*\*\*** |
| Alfacar | -0.61099 | -0.79164 | 0.4493 | **0.000999\*\*\*** |
| Cahorros | 0.99798 | 0.06353 | 0.2946 | **0.008991\*\*** |
| climbed | 0.92712 | -0.37476 | 0.3133 | **0.002997\*\*** |
| unclimbed | -0.92712 | 0.37476 | 0.3133 | **0.002997\*\*** |
| cover | -0.86117 | 0.50832 | 0.4394 | **0.000999\*\*\*** |
| richness | -0.99964 | -0.02665 | 0.6247 | **0.000999\*\*\*** |