## Model 3a - All species

| **cbind Model - All species** | | | | |
| --- | --- | --- | --- | --- |
| **Terms** | **OR1** | **χ²** | **p-value2** |  |
| **Locality richness** | **2.003** | **52.583** | **0.000** | **\*\*\*** |
| log(Site abundance) | 4.435 | 0.035 | 0.851 |  |
| Temperature (°C) | 0.984 | 0.024 | 0.878 |  |
| **Soil moisture (kg·m²)** | **2.349** | **45.530** | **0.000** | **\*\*\*** |
| **Locality richness:log(Site abundance)** | **0.672** | **47.630** | **0.000** | **\*\*\*** |
| **Temperature:Soil moisture** | **1.059** | **6.336** | **0.012** | **\*** |
| 1OR = Odds Ratio | | | | |
| 2\*p<0.05; \*\*p<0.01; \*\*\*p<0.001 | | | | |

## Model 3b - No fire salamanders

| **cbind Model - No fire salamanders** | | | | |
| --- | --- | --- | --- | --- |
| **Terms** | **OR1** | **χ²** | **p-value2** |  |
| **Locality richness** | **5.342** | **36.280** | **0.000** | **\*\*\*** |
| **log(Site abundance)** | **21.132** | **6.484** | **0.011** | **\*** |
| Temperature (°C) | 1.023 | 2.499 | 0.114 |  |
| Soil moisture (kg·m²) | 1.323 | 1.471 | 0.225 |  |
| **Locality richness:log(Site abundance)** | **0.505** | **38.589** | **0.000** | **\*\*\*** |
| **Temperature:Soil moisture** | **1.085** | **6.280** | **0.012** | **\*** |
| 1OR = Odds Ratio | | | | |
| 2\*p<0.05; \*\*p<0.01; \*\*\*p<0.001 | | | | |

## Model 3c - Fire salamanders only

| **cbind Model - Fire salamanders only** | | | | |
| --- | --- | --- | --- | --- |
| **Terms** | **OR1** | **χ²** | **p-value2** |  |
| **Locality richness** | **1.030** | **13.619** | **0.000** | **\*\*\*** |
| **log(Site abundance)** | **0.765** | **40.186** | **0.000** | **\*\*\*** |
| Temperature (°C) | 0.984 | 0.557 | 0.456 |  |
| **Soil moisture (kg·m²)** | **2.053** | **11.925** | **0.001** | **\*\*\*** |
| Locality richness:log(Site abundance) | 0.853 | 2.837 | 0.092 | . |
| Temperature:Soil moisture | 0.972 | 0.493 | 0.483 |  |
| 1OR = Odds Ratio | | | | |
| 2\*p<0.05; \*\*p<0.01; \*\*\*p<0.001 | | | | |