## Model 3a - All species

| **cbind Model - All species** | | | | |
| --- | --- | --- | --- | --- |
| **Terms** | **OR1** | **χ²** | **p-value2** |  |
| **Locality richness** | **2.073** | **52.616** | **0.000** | **\*\*\*** |
| log(Site abundance) | 4.470 | 1.481 | 0.224 |  |
| Temperature (°C) | 0.987 | 0.276 | 0.600 |  |
| Soil moisture (kg·m²) | 1.267 | 3.139 | 0.076 | . |
| **Locality richness:log(Site abundance)** | **0.649** | **59.796** | **0.000** | **\*\*\*** |
| Temperature:Soil moisture | 1.011 | 0.256 | 0.613 |  |
| 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** | **5.357** | **35.460** | **0.000** | **\*\*\*** |
| **log(Site abundance)** | **19.185** | **4.200** | **0.040** | **\*** |
| Temperature (°C) | 1.025 | 1.794 | 0.180 |  |
| Soil moisture (kg·m²) | 1.070 | 0.119 | 0.730 |  |
| **Locality richness:log(Site abundance)** | **0.508** | **39.230** | **0.000** | **\*\*\*** |
| Temperature:Soil moisture | 1.049 | 2.521 | 0.112 |  |
| 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** | **1.029** | **13.759** | **0.000** | **\*\*\*** |
| **log(Site abundance)** | **0.765** | **40.262** | **0.000** | **\*\*\*** |
| Temperature (°C) | 0.991 | 0.340 | 0.560 |  |
| **Soil moisture (kg·m²)** | **1.990** | **11.321** | **0.001** | **\*\*\*** |
| Locality richness:log(Site abundance) | 0.853 | 2.842 | 0.092 | . |
| Temperature:Soil moisture | 0.968 | 0.679 | 0.410 |  |
| 1OR = Odds Ratio | | | | |
| 2\*p<0.05; \*\*p<0.01; \*\*\*p<0.001 | | | | |