**ROCKY AIC TABLE**

| Model | K |  |  | Delta\_AICc | Weight |
| --- | --- | --- | --- | --- | --- |
| Status \* Abundance + PLS\_Precip \* PLS\_Temp + PreP\_Precip + PreP\_Precip2 | 10 |  |  | 0.000 | 0.211 |
| Status \* Abundance + PLS\_Precip \* PLS\_Temp + PreP\_Precip | 9 |  |  | 0.249 | 0.187 |
| Status \* Abundance + PLS\_Precip + PLS\_Precip2 + PreP\_Precip + PreP\_Precip2 | 9 |  |  | 0.333 | 0.179 |
| Status \* Abundance + PLS\_Precip + PLS\_Precip2 + PreP\_Precip | 8 |  |  | 0.504 | 0.164 |
| Status \* Abundance + PLS\_Precip + PLS\_Precip2 | 7 |  |  | 2.136 | 0.073 |
| Status \* Abundance + PLS\_Precip \* PLS\_Temp | 8 |  |  | 2.327 | 0.066 |
| Status + PLS\_Precip \* PLS\_Temp + PreP\_Precip + PreP\_Precip2 | 8 |  |  | 2.914 | 0.049 |
| Status + PLS\_Precip + PLS\_Precip ^ 2 + PreP\_Precip + PreP\_Precip2 | 7 |  |  | 4.422 | 0.023 |
| Status \* Abundance | 5 |  |  | 4.590 | 0.021 |
| Status + Abundance + PLS\_Precip \* PLS\_Temp + PreP\_Precip + PreP\_Precip2 | 9 |  |  | 5.179 | 0.016 |
| Status + Abundance + PLS\_Precip + PLS\_Precip2 + PreP\_Precip + PreP\_Precip2 | 8 |  |  | 6.533 | 0.008 |
| Status | 3 |  |  | 10.494 | 0.001 |
| Status + Abundance | 4 |  |  | 11.602 | 0.001 |
| 1 | 2 |  |  | 12.230 | 0.000 |

**TOP MODEL SUMMARY**

| Coefficient | Estimate | SE | Z | P-value |
| --- | --- | --- | --- | --- |
| (Intercept) | 3.806 | 0.060 | 63.540 | 0.000 |
| Post-Exposure | -0.296 | 0.130 | -2.269 | 0.023 |
| Abundance | 0.025 | 0.038 | 0.645 | 0.519 |
| PLS\_Precip | 0.015 | 0.046 | 0.328 | 0.743 |
| PLS\_Temp (Cold) | 0.283 | 0.114 | 2.491 | 0.013 |
| PreP\_Precip | -0.054 | 0.051 | -1.061 | 0.289 |
| PreP\_Precip2 | -0.069 | 0.043 | -1.610 | 0.107 |
| Post-Exposure \* Abundance | -0.393 | 0.142 | -2.771 | 0.006 |
| PLS\_Precip\*PLS\_Temp (Cold) | -0.305 | 0.100 | -3.043 | 0.002 |

**SECOND RANKED ROCKY MODEL SUMMARY**

| Coefficient | Estimate | SE | Z | P-value |
| --- | --- | --- | --- | --- |
| (Intercept) | 3.739 | 0.043 | 86.590 | 0.000 |
| Post-Exposure | -0.303 | 0.131 | -2.312 | 0.021 |
| Abundance | 0.026 | 0.039 | 0.672 | 0.502 |
| PLS\_Precip | 0.022 | 0.046 | 0.468 | 0.640 |
| PLS\_Temp (Cold) | 0.286 | 0.115 | 2.493 | 0.013 |
| PreP\_Precip | -0.095 | 0.045 | -2.108 | 0.035 |
| Post-Exposure \* Abundance | -0.424 | 0.142 | -2.983 | 0.003 |
| PLS\_Precip\*PLS\_Temp (Cold) | -0.307 | 0.101 | -3.043 | 0.002 |

**DESERT AIC TABLE**

| Model | K |  |  | Delta\_AICc | Weight |
| --- | --- | --- | --- | --- | --- |
| Disease Status + PreP\_Precip + PreP\_Precip2 | 5 |  |  | 0.000 | 0.238 |
| Disease Status + PreP\_Temp + PreP\_Precip + PreP\_Precip2 | 6 |  |  | 0.101 | 0.226 |
| Disease Status | 3 |  |  | 1.338 | 0.122 |
| Disease Status + Abundance + PreP\_Precip + PreP\_Precip2 | 6 |  |  | 1.624 | 0.106 |
| Disease Status + Abundance + PreP\_Temp + PreP\_Precip + PreP\_Precip2 | 7 |  |  | 2.191 | 0.079 |
| Disease Status \* Abundance + PreP\_Precip + PreP\_Precip2 | 7 |  |  | 2.373 | 0.073 |
| Disease Status \* Abundance + PreP\_Temp + PreP\_Precip + PreP\_Precip2 | 8 |  |  | 2.546 | 0.067 |
| Disease Status + Abundance | 4 |  |  | 2.886 | 0.056 |
| Disease Status \* Abundance | 5 |  |  | 3.885 | 0.034 |
| 1 | 2 |  |  | 17.995 | 0.000 |

**TOP MODEL SUMMARY**

| Coefficient | Estimate | SE | Z | P-value |
| --- | --- | --- | --- | --- |
| Intercept | 3.847 | 0.049 | 78.946 | <0.001 |
| Disease Status (Post-Exposure) | -0.351 | 0.082 | -4.290 | <0.001 |
| PreP\_Precip | 0.095 | 0.044 | 2.165 | 0.030 |
| PreP\_Precip2 | -0.062 | 0.029 | -2.110 | 0.035 |

**SECOND RANKED MODEL SUMMARY**

| Coefficient | Estimate | SE | Z | P-value |
| --- | --- | --- | --- | --- |
| Intercept | 3.798 | 0.043 | 88.717 | <0.001 |
| Disease Status Post-Exposure | -0.379 | 0.083 | -4.587 | <0.001 |