**S2 Table. Overall distance final model set.**

|  |  |  |
| --- | --- | --- |
| Model | ΔAICc | weight |
| treatment + site + date | 0 | 0.245 |
| treatment + date | 0.246 | 0.217 |
| site + date | 1.019 | 0.147 |
| treatment + site + date + bird\_group | 1.362 | 0.124 |
| date | 1.507 | 0.115 |
| treatment + site + date + bird\_size | 2.138 | 0.084 |

AICc weight was used to rank model suitability. Models carrying 95% of total AICc weights were preserved and worse performing but more complex nested models were removed.