| Model | K | AIC | ∆AIC | R²fe |
| --- | --- | --- | --- | --- |
| Group vs. solo foraging | | | | |
| **Abiotic + Biotic** | **10.00** | **3,913.36** | **0.00** | **0.03** |
| Abiotic | 7.00 | 3,921.55 | 8.19 | 0.02 |
| Biotic | 5.00 | 4,094.04 | 180.68 | 0.02 |
| Null | 3.00 | 4,111.56 | 198.20 | 0.00 |
| Group size | | | | |
| **Abiotic + Biotic** | **10.00** | **8,126.59** | **0.00** | **0.05** |
| Abiotic | 7.00 | 8,213.94 | 87.35 | 0.02 |
| Biotic | 6.00 | 8,360.46 | 233.87 | 0.02 |
| Null | 3.00 | 8,412.14 | 285.55 | 0.00 |
| Group leadership | | | | |
| **Status** | **4.00** | **2,150.11** | **0.00** | **0.00** |
| *Null* | *2.00* | *2,151.91* | *1.80* | *0.00* |
| Status + Injury | 6.00 | 2,152.89 | 2.78 | 0.01 |
| Injury | 4.00 | 2,154.76 | 4.65 | 0.00 |

Table S3. AIC comparisons for all a priori models of abiotic, biotic and state for (a) group vs solo foraging size, (b) group size and (c) leadership. Model of best fit (indicated in bold) corresponds to the model with lowest AIC values for each response variable. Alternative models within ∆AIC < 2 are indicated in italics. K = number of free parameters for a given model; R2fe: proportion of variation explained by fixed effects.