|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trait | Variance component | Median | CI\_low | CI\_high |  | Variance explained (R2) | Median | CI\_low | CI\_high |
| Group vs. solo foraging |  |  |  |  |  |  |  |  |  |
|  | Vi | 0.49 | 0.31 | 0.69 |  | R2i | 0.10 | 0.07 | 0.14 |
|  | Vsite | 0.03 | 0.00 | 0.36 |  | R2site | 0.01 | 0.00 | 0.06 |
|  | Vfe | 0.16 | 0.10 | 0.26 |  | R2fe | 0.03 | 0.02 | 0.05 |
|  | VR | 4.03 | 4.00 | 4.34 |  | R2R | 0.85 | 0.80 | 0.89 |
| Group size |  |  |  |  |  |  |  |  |  |
|  | Vi | 0.02 | 0.01 | 0.04 |  | R2i | 0.05 | 0.02 | 0.09 |
|  | Vsite | 0.01 | 0.00 | 0.09 |  | R2site | 0.03 | 0.00 | 0.18 |
|  | Vfe | 0.02 | 0.01 | 0.03 |  | R2fe | 0.05 | 0.03 | 0.08 |
|  | VR | 0.34 | 0.27 | 0.41 |  | R2R | 0.86 | 0.72 | 0.93 |
| Group leadership |  |  |  |  |  |  |  |  |  |
|  | Vi | 0.23 | 0.08 | 0.42 |  | R2i | 0.05 | 0.01 | 0.08 |
|  | Vfe | 0.04 | 0.01 | 0.11 |  | R2fe | 0.01 | 0.00 | 0.02 |
|  | VR | 4.72 | 4.50 | 4.99 |  | R2R | 0.95 | 0.91 | 0.98 |

Table S4. Variance and proportion of variance explained (R2) by random effects and fixed effect predictors of manta foraging strategies extracted from GLMMs. Variance distributions were calculated using 1000 bootstraps on the link scale (group foraging and group leadership: Binomial error with logit link, group size, Poisson error with log link). Vi: among-individual variance, Vsite: among-site variance, Vfe: variance explained by fixed effects, VR: residual variance.