**Quantitative assessment of arthropod-plant interactions in forest canopies: a plot-based approach**

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**S4 Table**. Variables with a significant effects on **Foliage accessibility**, **Area-based sampling effort,** and **Resource-based sampling effort** as selected by forward selection in linear mixed effect models. The best model explaining differences in **Foliage accessibility** included fixed effects of the forest type, used method, number of stems with DBH≥5cm, and sampled leaf area (m2) (χ2 (8) =64.02, p<0.0001). Percentage data on **Foliage accessibility** were arcsine transformed. The best model explaining differences in **Area-based sampling effort** included fixed effects of number of stems with DBH≥5cm, and forest type (χ2 (5) =95.24, p<0.0001). The best model explain differences in **Resource-based sampling effort** included fixed effects of number of stems with DBH≥5cm, sampled leaf area, and forest type (χ2 (6) =80.75, p<0.0001). Effort data were log-transformed. Site was used as random effect.

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| **Foliage accessibility** |  |  |  |  |
| **Fixed effects** | **Estimate** | **Std. Error** | **t value** | **AIC** |
| *Null model* |  |  |  | -114.50 |
| *Selected model* |  |  |  | -162.52 |
| (Intercept) | 0.9259 | 0.0290 | 31.94 |  |
| Forest type |  |  |  |  |
| *Tropical highland primary* | 0.0468 | 0.0318 | 1.47 |  |
| *Tropical highland secondary* | 0.1167 | 0.0307 | 3.80 |  |
| *Tropical lowland primary* | 0.0569 | 0.0323 | 1.76 |  |
| *Tropical lowland secondary* | 0.1257 | 0.0284 | 4.44 |  |
| Method |  |  |  |  |
| *Felling* | -0.0201 | 0.0307 | -0.66 |  |
| *Cherry-picker* | 0.2112 | 0.0438 | 4.82 |  |
| Number of stems with DBH≥5cm | 0.0008 | 0.0002 | 4.59 |  |
| Sampled leaf area | 0.00003 | 0.00001 | -3.30 |  |
| **Area-based sampling effort** |  |  |  |  |
| **Fixed effects** | **Estimate** | **Std. Error** | **t value** | **AIC** |
| *Null model* |  |  |  | 56.13 |
| *Selected model* |  |  |  | -29.11 |
| (Intercept) | 6.788 | 0.106 | 63.95 |  |
| Number of stems with DBH≥5cm | 0.007 | 0.001 | 13.11 |  |
| Forest type |  |  |  |  |
| *Tropical highland primary* | -0.294 | 0.165 | -1.78 |  |
| *Tropical highland secondary* | -0.770 | 0.168 | -4.58 |  |
| *Tropical lowland primary* | 0.199 | 0.166 | 1.20 |  |
| *Tropical lowland secondary* | -0.106 | 0.171 | -0.62 |  |
| **Resource-based sampling effort** |  |  |  |  |
| **Fixed effects** | **Estimate** | **Std. Error** | **t value** | **AIC** |
| *Null model* |  |  |  | -70.96 |
| *Selected model* |  |  |  | -139.71 |
| (Intercept) | 0.709 | 0.058 | 12.32 |  |
| Number of stems with DBH≥5cm | 0.002 | 0.000 | 10.42 |  |
| Sampled leaf area | -0.000 | 0.000 | -7.66 |  |
| Forest type |  |  |  |  |
| *Tropical highland primary* | -0.268 | 0.097 | -2.77 |  |
| *Tropical highland secondary* | -0.393 | 0.096 | -4.07 |  |
| *Tropical lowland primary* | -0.058 | 0.096 | -0.60 |  |
| *Tropical lowland secondary* | -0.108 | 0.096 | -1.13 |  |