| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Date of first follicle: 2020 | (Intercept) | 124.925 | **<0.001\*\*\*** |
| Block | 9.657 | **0.022\*** |
| Subtransect | 8.687 | **0.003\*\*** |
| Urbanization Score | 13.722 | **<0.001\*\*\*** |
| Subtransect x Urbanization Score | 8.894 | **0.003\*\*** |

Table 4: Quantify variance explained by transect

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Date of first follicle: 2020 | Family | NA | NA | 0 | 1 | 0.5 |
| Date of first follicle: 2020 | Population | NA | NA | 0 | 1 | 0.5 |

Model: Julian\_first\_follicle - 200 ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

Urbanization = Urbanization Score

Table 3: Assess how much variance is explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Date of first follicle: 2020 | Block | 1.642 | 0.65 |
| Subtransect | 1.412 | 0.235 |
| Distance to City Center | 4.079 | **0.043\*** |
| Subtransect x Distance to City Center | 0.088 | 0.766 |

Table 2: Quantify variance explained by transect

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Date of first follicle: 2020 | Family | NA | NA | 2.275 | 1 | 0.0655 |
| Date of first follicle: 2020 | Population | 0.028 | 86.61 | 0.000 | 1 | 0.5 |

Model: Julian\_first\_follicle - 200 ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Transect\_ID + City\_dist + Transect\_ID:City\_dist

Urbanization = Distance to the City Center

Table 1: Assess how much variance is explained by transect