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| --- | --- | --- | --- | --- | --- |
| **Linear mixed effects model: Worker occurrence zone size and mean scaled distance to the nest entrance**  Formula: Occur ~ MeanScaledDist\*Nest\*Density + (1 | Colony ID) + (1 | ColorID) | | | | | |
| Random effects: | Name | Variance | Std. dev |  |  |
| Color ID | (Intercept) | 0.055 | 0.235 |  |  |
| Colony ID | (Intercept) | 0.100 | 0.316 |  |  |
| Residual |  | 1.415 | 1.190 |  |  |
| Fixed effects: | *β* a | *SE* b | *df* c | *t* d | *P* |
| (Intercept) | 6.688 | 0.626 | 310.831 | 10.684 | **<0.001** |
| MeanScaledDist | -4.236 | 3.374 | 366.467 | -1.255 | 0.210 |
| Nest | -1.222 | 0.828 | 374.005 | -1.476 | 0.141 |
| Density | -1.926 | 0.817 | 322.418 | -2.357 | **0.019** |
| MeanScaledDist\*Nest | 5.045 | 3.540 | 368.881 | 1.425 | 0.155 |
| MeanScaledDist\*Density | 13.773 | 4.686 | 374.666 | 2.939 | **0.003** |
| Nest\*Density | 2.384 | 1.076 | 373.000 | 2.215 | **0.027** |
| MeanScaledDist\*Nest\*Density | -14.614 | 4.873 | 374.648 | -2.999 | **0.003** |
| Model Statistics: |  |  |  |  |  |
| Number of obs: 383, groups: Color ID, 228; Colony ID, 19  Marginal *R*2 = 0.041, Conditional *R*2 = 0.136  a Coefficient  b Standard error  c Degrees of freedom | | | | | |