|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Linear mixed effects model: Occurrence zone size (cm2)**  Formula: Occur\_Area ~ Nest\*Density + (1 | Colony ID) + (1 | Color ID) | | | | | |
| Random effects: | Name | Variance | Std. dev |  |  |
| Color ID | (Intercept) | 0.000 | 0.000 |  |  |
| Colony ID | (Intercept) | 0.499 | 0.706 |  |  |
| Residual |  | 0.155 | 0.393 |  |  |
| Fixed effects: | *β* a | *SE* b | *df* c | *t* d | *P* |
| (Intercept) | 0.783 | 0.232 | 16.827 | 3.375 | **0.004** |
| Nest | -0.023 | 0.071 | 366.580 | -0.324 | 0.746 |
| Density | 0.808 | 0.337 | 16.682 | 2.398 | **0.029** |
| Nest\*Density | -0.104 | 0.092 | 366.077 | -1.131 | 0.259 |
| Model Statistics: |  |  |  |  |  |
| Number of obs: 1155, groups: Color ID, 417; Colony ID, 19  Marginal *R*2 = 0.174, Conditional *R*2 = 0.805  a Coefficient  b Standard error  c Degrees of freedom  d T statistic | | | | | |