

COPULATION DURATION IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897 IS RELATED TO DISTANCE TO THE NEAREST AIRPORT

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Abstract- Distance to the nearest airport was tested for a correlation with copulation duration in red millipedes *Centrobolus*. Distance to the nearest airport was related to copulation duration (Pearson's $r=-0.69704150$, Z score= -2.85734835 , $n=150$, $p=0.00213605$). The relationship was not significant when a weighted average was used for *C. inscriptus* (Copulation duration weighted average = 214 minutes, sum of weights $n=157$). When the P-value calculator was implemented and copulations were rounded to the nearest minute (30 seconds did not make a difference but 24 seconds did) there was a relative difference between short (Mean= 52.50 min.) and long copulation durations (Mean= 107 min.) (P-value= 0.000013 , Z score= 4.205744 , d. f. = 2, Significance level 100%) when distances to airports were relatively far apart (135.6650 km versus 95.09 km) (P-value= 0.004384 , T score= -10.608809 , d. f. = 2, Significance level = 99.56%).

Keywords: copulation, distance, nearest, Red Millipedes.

I. INTRODUCTION

Red millipedes are found in the southern African subregion with northern limits on the east coast being about -17° latitude S and southern limits being -35° latitude S. They are well represented in the littoral forests of the eastern half of the subcontinent [1-433]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [433]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [432]. These worm-like millipedes have female-biased sexual size dimorphism [57].

Here, distance to the nearest airport is correlated with copulation duration in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

A correlation between distance to the nearest airport and copulation duration was generated for four species of southern African *Centrobolus* were obtained from published material [57] at <https://www.socscistatistics.com/tests/pearson/de>

[fault2.aspx](#) (Appendix 1). Copulation duration for three species were obtained from [7] and for *C. inscriptus* from [172]. Copulation duration of four species of *Centrobolus* were compared to distance to the nearest airport which was obtained from <https://en.climate-data.org/africa/south-africa/kwazulu-natal/mtunzini-772733/>, <https://en.climate-data.org/africa/south-africa/kwazulu-natal/richards-bay-637/>, <https://en.climate-data.org/africa/south-africa/kwazulu-natal/port-shepstone-27283/>. These were correlated at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php> and a screen shot captured of the figure. Sample sizes are given in the Appendix.

III. RESULTS

Distance to the nearest airport was related to copulation duration (Figure 1: Pearson's $r=-0.69704150$, Z score= -2.85734835 , $n=14$, $p=0.00213605$).

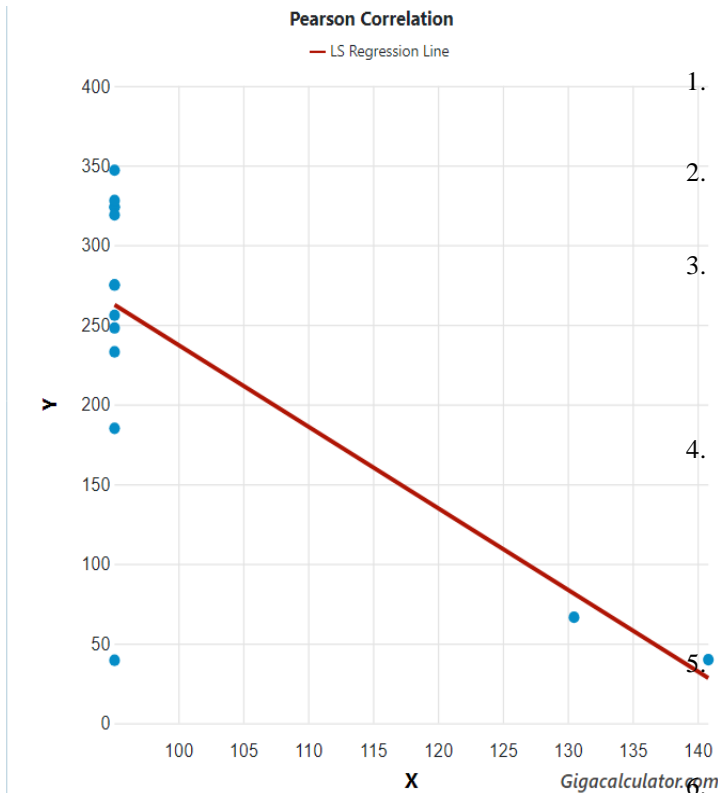


Fig. 1. Distance to the nearest airport (x) was related to copulation duration (y) in this correlation.

The relationship was not significant when a weighted average was used for *C. inscriptus* (Copulation duration weighted average = 214.40764331 minutes, sum of weights n= 157). When the P-value calculator was implemented [431] and copulations [7] were rounded to the nearest minute (30 seconds did not make a difference but 24 seconds did) there was a relative difference between short (Mean=52.50 min.) and long copulation durations (Mean=107 min.) (P-value=0.000013, Z score=4.205744, d. f. = 2, Significance level 100%) when distances to airports were relatively far apart (135.6650 km versus 95.09 km) (P-value=0.004384, T score=-10.608809, d. f. = 2, Significance level = 99.56%).

IV. DISCUSSION

There is an inverse correlation between distance to the nearest airport and copulation duration in *Centrobolus*.

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APPENDIX 1. Distance to the nearest airport (km) preceded with copulation duration (minutes) across four *Centrobolus* Cook, 1897. All recordings for *C. inscriptus* except first three.

66.4, 130.49 (*C. fulgidus*) ($n=51$)

39.8, 140.84 (*C. ruber*) ($n=32$)

39.4, 95.09 (*C. anulatus*) ($n=8$)

347, 95.09 ($n=1$)

324, 95.09 ($n=7$)

275, 95.09 ($n=4$)

324, 95.09 ($n=3$)

328, 95.09 ($n=1$)

275, 95.09 ($n=7$)

233, 95.09 ($n=4$)

248, 95.09 ($n=3$)

185, 95.09 ($n=4$)

256, 95.09 ($n=8$)

319, 95.09 ($n=17$)

173, 95.09 ($n=46$)

174, 95.09 ($n=46$)

145.5, 95.09 ($n=6$).