

IS MATING FREQUENCY RELATED TO DISTANCE TO THE NEAREST AIRPORT IN FOREST RED MILLIPEDES *CENTROBOLUS COOK*, 1897?

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Abstract- The mating frequency was tested for a correlation with distance to the nearest airport in red millipedes *Centrobolus*. The mating frequency was correlated with distance to the nearest airport ($r= 0.92554221$, Z score= 5.86394325 , $r^2=0.8566$, $n=22$, $p<0.00001$); distances of 70km possibly having a significant affect on the different species.

Keywords: airport, distance, frequency, mating, 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 [1-406]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [408]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [407]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, the mating frequency was tested for a correlation with distance to the nearest airport in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for 2 species of southern African *Centrobolus* were obtained from published material [57]. These were halved to get radii (r). The surface areas (mm^2) were calculated based on the equation $2 \cdot \pi \cdot r \cdot (r + h)$ for males and females. A correlation between the mating frequencies with distance to the nearest airport was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

The mating frequency was correlated with distance to the nearest airport (Fig. 1: $r= 0.92554221$, Z score= 5.86394325 , $r^2=0.8566$, $n=22$, $p<0.00001$).

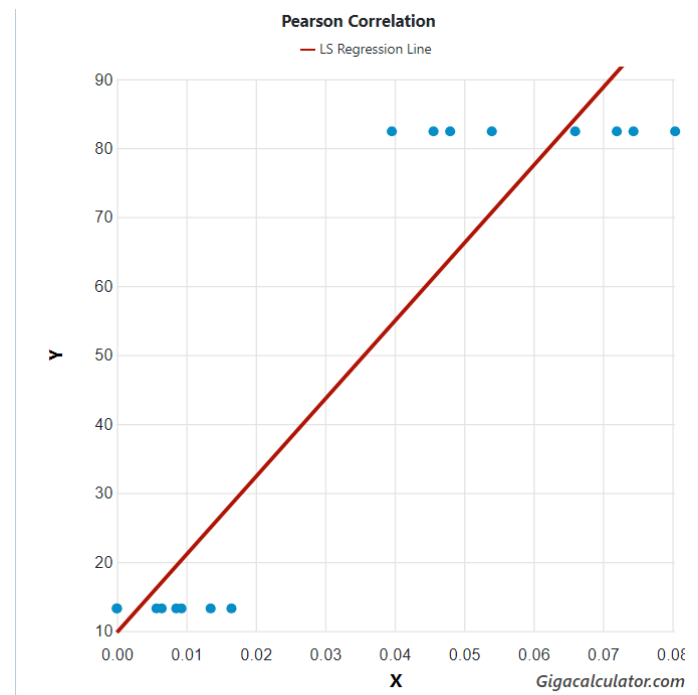


Fig. 1. Correlation between the mating frequency (X) and distance to the nearest airport (Y) across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between mating frequencies and distance to the nearest airport in *Centrobolus*. The positioning of airports has implications for endangered species.

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APPENDIX 1. Mating frequencies in *Centrobolus* Cook, 1897.

0
0
0.0165
0.0135
0.0093
0.0057
0.00855
0.00645
0.066
0.054
0.0744
0.0456
0.072
0.048
0.0396
0.0804

APPENDIX 2. Distance to the nearest airport (km) for two species of *Centrobolus* Cook, 1897.

13.26
82.42