

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

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Abstract- The latitude was tested for a correlation with distance to the nearest airport in red millipedes *Centrobolus*. The latitude was correlated with distance to the nearest airport (Pearson's $r=0.41899263$, Z score= 1.94611554 , $n=22$, $p=0.02582036$).

Keywords: airport, distance, latitude, 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 [1-397]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [399]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [398]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, the latitude was tested for a correlation with distance to the nearest airport in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for 22 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 latitude with distance to the nearest airport was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

The latitude was correlated with distance to the nearest airport (Fig. 1: Pearson's $r=0.41899263$, Z score= 1.94611554 , $n=22$, $p=0.02582036$).

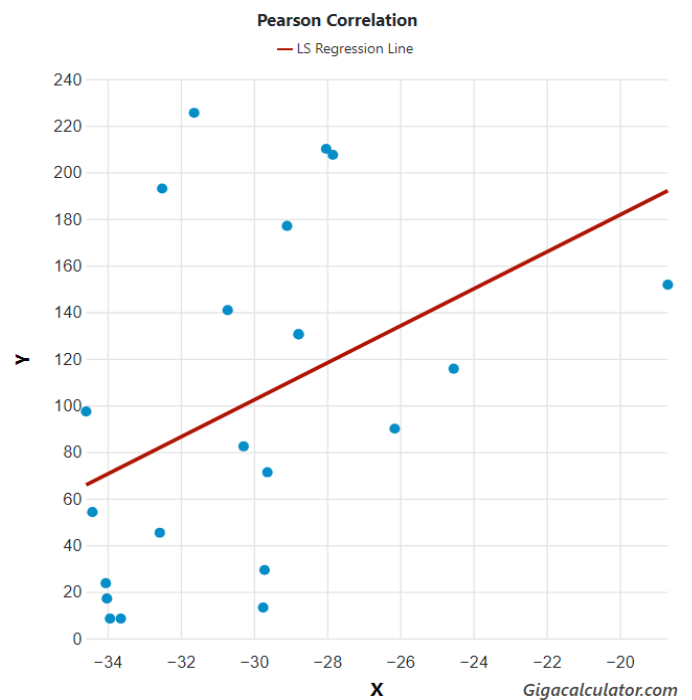


Fig. 1. Correlation between latitude (X) and distance to the nearest airport (Y) across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between latitude and distance to the nearest airport in *Centrobolus*. The further away the airport the greater the latitude. Airports may impact endangered species.

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APPENDIX 1. The latitude followed by distance to the nearest airport (km) in *Centrobolus* Cook, 1897.

- 26.1502, 90.01
- 29.7462, 13.26
- 27.8403, 207.50
- 34.0477, 23.68
- 34.5849, 97.37
- 28.7784, 130.49
- 18.6866, 151.74
- 30.2805, 82.42
- 29.7080, 29.37
- 29.6301, 71.31
- 33.9322, 8.52
- 34.0164, 17.12
- 32.5717, 45.36
- 28.7784, 130.49
- 30.7157, 140.84
- 28.0246, 210.09
- 33.6367, 8.52
- 32.5064, 193.04
- 34.4142, 54.23
- 24.5392, 115.73
- 29.0939, 177.00
- 31.6334, 225.52