

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

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Abstract- Longitude was tested for a correlation with distance to the nearest airport in red millipedes *Centrobolus*. The longitude was correlated with distance to the nearest airport ($r=0.51107239$, Z score= 2.45920451 , $r^2=0.2612$, $n=22$, $p=0.00696227$).

The longitude was correlated with distance to the nearest airport ($r=0.51107239$, Z score= 2.45920451 , $r^2=0.2612$, $n=22$, $p=0.00696227$).

Keywords: airport, distance, longitude, 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 longitude 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 longitude with distance to the nearest airport was generated at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php> and <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

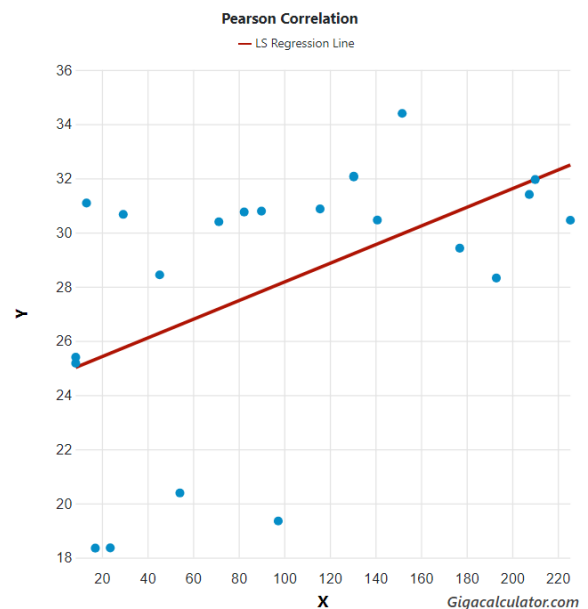


Fig. 1. Correlation between longitude (y) and distance to the nearest airport (x) across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between longitude with the distance to the nearest airport in a day in *Centrobolus*. This has implications for determining the effect of airports on endangered species.

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(Spirobolida: Pachybolidae) of South Africa," The University of Kwazulu Natal, pp. 289, 2021.	8.52
	193.04
APPENDIX 1. The longitude across <i>Centrobolus</i> Cook, 1897.	54.23
30.786	115.73
31.084	177.00
31.400	225.52
18.357	
19.350	
32.049	
34.394	
30.754	
30.666	
30.393	
25.173	
18.348	
28.433	
32.078	
30.456	
31.952	
25.396	
28.317	
20.383	
30.867	
29.418	
30.451	
APPENDIX 2. Distance to the nearest airport (km) across the range of <i>Centrobolus</i> Cook, 1897.	
90.01	
13.26	
207.50	
23.68	
97.37	
130.49	
151.74	
82.42	
29.37	
71.31	
8.52	
17.12	
45.36	
130.49	
140.84	
210.09	