

SPECIES RICHNESS IS NOT RELATED TO DISTANCE TO THE NEAREST AIRPORT IN FOREST RED MILLIPEDS *CENTROBOLUS* COOK, 1897

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Abstract- The distance to the nearest airport was tested for a correlation with species richness in red millipedes *Centrobolus*. The distance to the nearest airport was not correlated with species richness in a comparison of low species richness to high species richness (P-value calculator: Z-score=-0.820124, d.f.=20, P-value=0.206073). The distance to the nearest airport at high species richness was lower (98.217368km) than distance to the nearest airport at low species richness (119.16 km).

Keywords: airport, distance, millipede, species.

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 distance to the nearest airport was tested for a correlation with species richness in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

22 species of *Centrobolus* were separated according species richness. A test between the distance to the nearest airport with low versus high species richness (Appendix 1) was generated at

<https://www.gigacalculator.com/calculators/p-value-significance-calculator.php>.

III. RESULTS

The distance to the nearest airport was not correlated with species richness in a comparison of low species richness to high species richness (P-value calculator: Z-score=-0.820124, d.f.=20, P-value=0.206073). The distance to the nearest airport at high species richness was lower (98.217368km) than distance to the nearest airport at low species richness (119.16 km).

IV. DISCUSSION

There is no difference between distances to the nearest airport with species richness in *Centrobolus*.

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APPENDIX 1. Distance to the nearest airport across the range of *Centrobolus* Cook, 1897 (low indicates low species richness)

- 90.01 (low)
- 13.26
- 207.50
- 23.68
- 97.37
- 130.49
- 151.74 (low)
- 82.42
- 29.37
- 71.31