DISTANCE TO THE NEAREST AIRPORT IS RELATED TO THE MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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.*Abstract*- The month with the highest number of rainy days was tested for a correlation with distance to the nearest airport in red millipedes *Centrobolus*. The month with the highest number of rainy days was correlated with distance to the nearest airport (r= 0.43733176, Z score=2.04400440, r^2=0.1912, n=22, p=0.02047649).

Keywords: **airport, distance, rain, 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 [1-403]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [405]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [404]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, the month with the highest number of rainy days 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 month with the highest number of rainy days with distance to the nearest airport was generated at https://www.socscistatistics.com/tests/pearson/default2.aspx (Appendix 1 & 2 respectively).

III. RESULTS

The month with the highest number of rainy days was correlated with distance to the nearest airport (Fig. 1: r= 0.43733176, Z score=2.04400440, r^2=0.1912, n=22, p=0.02047649).

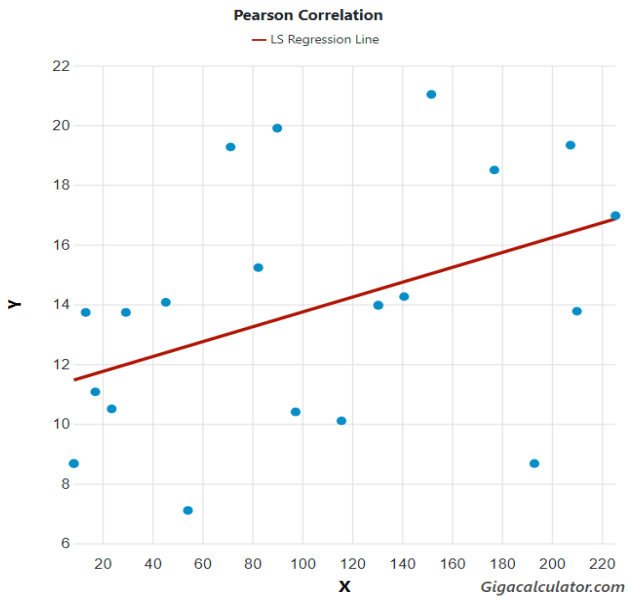

Fig. 1. Correlation between month with the highest number of rainy days (Y) and distance to the nearest airport (X) across therange of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between month with the highest number of rainy days and distance to the nearest airport in *Centrobolus*. The further away the airport the greater the number of rainy days. Airports may impact endangered species.

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APPENDIX 1. The month with the highest number of rainy days in *Centrobolus* Cook, 1897.
19.90
13.73
19.33
10.50
10.40
13.97
21.03

15.23
13.73
19.27
8.67
11.07
14.07
13.97
14.26
13.77
8.67
8.67
7.10
10.10
18.50
16.97

APPENDIX 2. Distance to the nearest airport (km) across the range of *Centrobolus* 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
8.52
193.04
54.23
115.73
177.00
225.52