

DISTANCE TO THE NEAREST AIRPORT IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES AND MONTH WITH THE LOWEST NUMBER OF RAINY DAYS IN COASTAL FOREST RED MILLIPEDES *CENTROBOLUS COOK*, 1897

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Abstract- Minimum ocean water temperature and month with the lowest number of rainy days were tested for a correlation with distance to the nearest airport in red millipedes *Centrobolus*. Minimum ocean water temperature was related to distance to the nearest airport (Spearman's $r=0.68674699$, Z score= 1.828214 , $n=8$, $p=0.03375866$). Month with the lowest number of rainy days was related to minimum ocean water temperature (Pearson's $r=0.70359579$, Z score= 2.14179997 , $n=9$, $p=0.01610473$). Results of the multiple linear regression indicated that there was a very strong collective significant effect between the distance to the nearest airport, minimum ocean water temperature, and month with the lowest number of rainy days, ($F(1, 6) = 14.47$, $p = 0.009$, $R^2 = 0.71$, $R^2_{adj} = 0.66$).

Keywords: airport, distance, minimum, nearest, 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 [1-440]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [440]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [439]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, minimum ocean water temperature and month with the lowest number of rainy days are correlated with distance to the nearest airport in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for 8 species of southern African *Centrobolus* were obtained from published material [57]. These were halved to get radii (r). The curved surface areas (mm^2) were calculated based on the equation Surface Area (Curved) = $2 \times \pi \times \text{Radius}$

x Height. A correlation between minimum ocean water temperature and month with the lowest number of rainy days 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). Multivariate Statistical Analysis was performed between the three variables at https://www.statskingdom.com/410multi_linear_regression.html.

III. RESULTS

Minimum ocean water temperature was related to distance to the nearest airport (Spearman's $r=0.68674699$, Z score= 1.828214 , $n=8$, $p=0.03375866$).

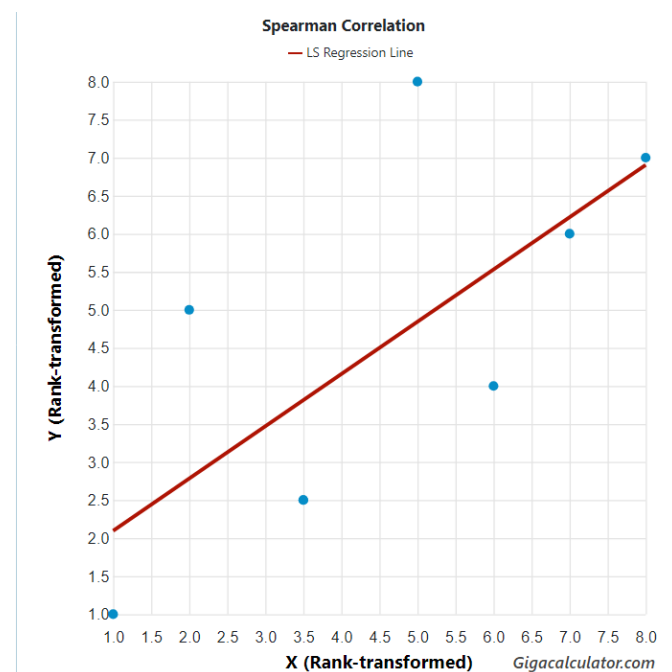


Fig. 1. Correlation between minimum ocean water temperature and distance to the nearest airport in *Centrobolus* Cook, 1897.

Month with the lowest number of rainy days was related to minimum ocean water temperature (Figure 2: Pearson's $r=0.70359579$, Z score= 2.14179997 , $n=9$, $p=0.01610473$).

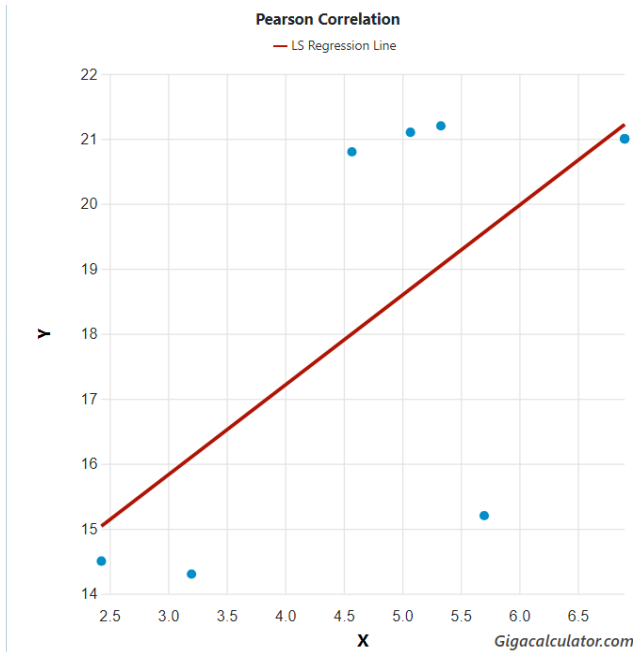


Fig. 2. Correlation between month with the lowest number of rainy days (x) and minimum ocean water temperature (y) in *Centrobolus* Cook, 1897.

Multivariate Statistical Analysis

Results of the multiple linear regression indicated that there was a very strong collective significant effect between the distance to the nearest airport, minimum ocean water temperature, and month with the lowest number of rainy days, ($F(1, 6) = 14.47$, $p = 0.009$, $R^2 = 0.71$, $R^2_{adj} = 0.66$).

IV. DISCUSSION

There is a correlation between minimum ocean water temperature and month with the lowest number of rainy days with distance to the nearest airport in *Centrobolus*.

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APPENDIX 1. Minimum ocean temperature (degrees Celsius) followed by distance to the nearest airport (km) in coastal *Centrobolus* Cook, 1897.

20.80, 13.26
14.50, 23.68
15.20, 97.37
21.00, 130.49
21.10, 82.42
14.30, 17.12
21.00, 130.49
21.20, 140.84.

APPENDIX 2. Month with the lowest number of rainy days (days) followed by minimum ocean water temperature (degrees Celsius) in coastal *Centrobolus* Cook, 1897.

5.07, 21.10
4.57, 20.80
6.90, 21.00
5.33, 21.20
2.43, 14.50
5.70, 15.20
6.90, 21.00
3.20, 14.30
6.90, 21.00.