

PRECIPITATION IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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Abstract- Precipitation was tested for a correlation with latitude in red millipedes *Centrobolus*. Precipitation was related to latitude ($r=0.6515$, $Z \text{ score}=3.39077105$, $r^2=0.4245$, $n=22$, $p=0.001009$).

Keywords: latitude, precipitation, 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, precipitation is correlated with latitude 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 precipitation and latitude was generated at

<https://www.socscistatistics.com/tests/pearson/default2.aspx> and <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php> (Appendix 1 & 2 respectively).

III. RESULTS

Precipitation was related to latitude (Fig. 1: $r=0.6515$, $Z \text{ score}=3.39077105$, $r^2=0.4245$, $n=22$, $p=0.001009$).

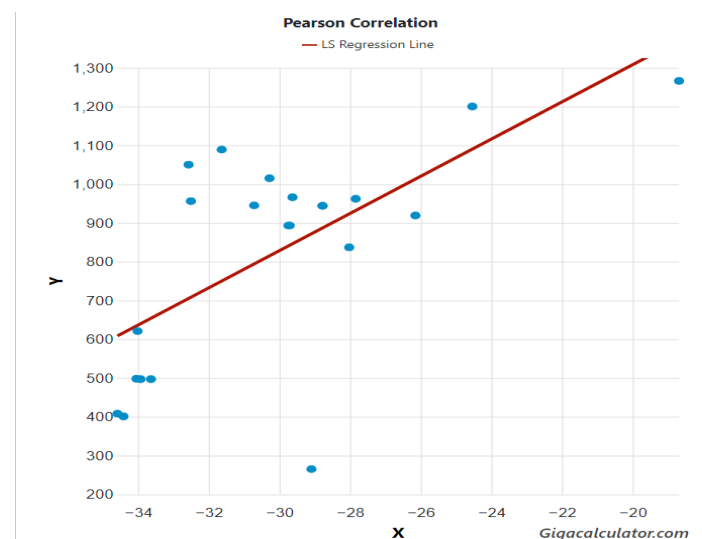


Fig. 1. Correlation between precipitation (mm) and latitude across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between precipitation and latitude.

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- APPENDIX 1.** Precipitation (mm) across the range of *Centrobolus* Cook, 1897.
- 919
893
962
498
408
944
1266
1015
893
966
497
621
1050
944
945
837
497
956
401
1200
265
1089
- APPENDIX 2.** Latitude across the range of *Centrobolus* Cook, 1897.
- 26.1502
-29.7462
-27.8403
-34.0477
-34.5849
-28.7784
-18.6866
-30.2805
-29.7080
-29.6301
-33.9322
-34.0164
-32.5717
-28.7784
-30.7157
-28.0246
-33.6367
-32.5064
-34.4142
-24.5392

-29.0939
-31.6334