

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

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Abstract- Precipitation was tested for a correlation with longitude in red millipedes *Centrobolus*. Precipitation was related to longitude ($r=0.7355$, $Z \text{ score}=4.10039652$, $r^2=0.541$, $n=22$, $p=0.00101$) $y = 42.35932649 x + -373.55335849$.

Keywords: longitude, 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 longitude 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 longitude 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

Precipitation was related to longitude (Fig. 1: $r=0.7355$, $Z \text{ score}=4.10039652$, $r^2=0.541$, $n=22$, $p=0.00101$).

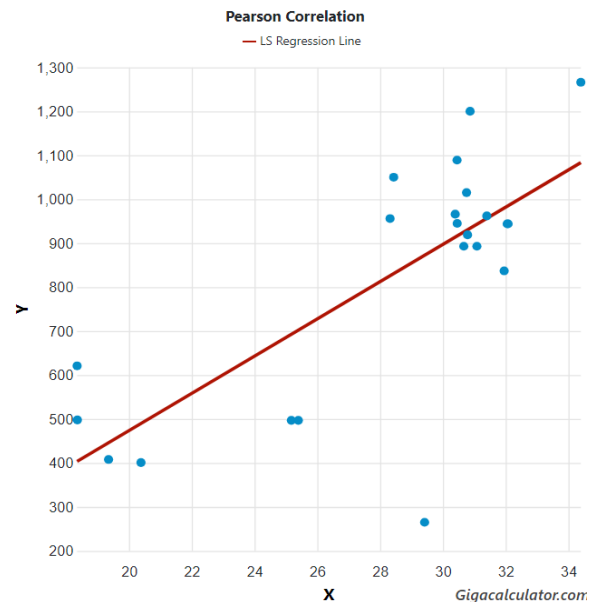


Fig. 1. Correlation between precipitation (mm) and longitude across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between precipitation and longitude.

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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. Longitude across the range of *Centrobolus* Cook, 1897.

30.786
31.084
31.400
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