

COPULATION DURATION IS RELATED TO MAXIMUM PRECIPITATION IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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Abstract- Maximum precipitation was tested for a correlation with copulation duration in red millipedes *Centrobolus*. Maximum precipitation was correlated with copulation duration (Spearman's $r=0.87208160$, Z score= 1.84297608 , $n=5$, $p=0.03266619$).

0.87208160 , Z score= 1.84297608 , $n=5$, $p=0.03266619$).

Keywords: Red Millipedes, sunshine, moments.

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 [1-395]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [397]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [396]. These worm-like millipedes have female-biased sexual size dimorphism [57].

Here, the maximum precipitation was tested for a correlation with copulation duration in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for 4 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 copulation duration and maximum precipitation was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

Maximum precipitation was correlated with copulation duration (Fig. 1: Spearman's $r=$

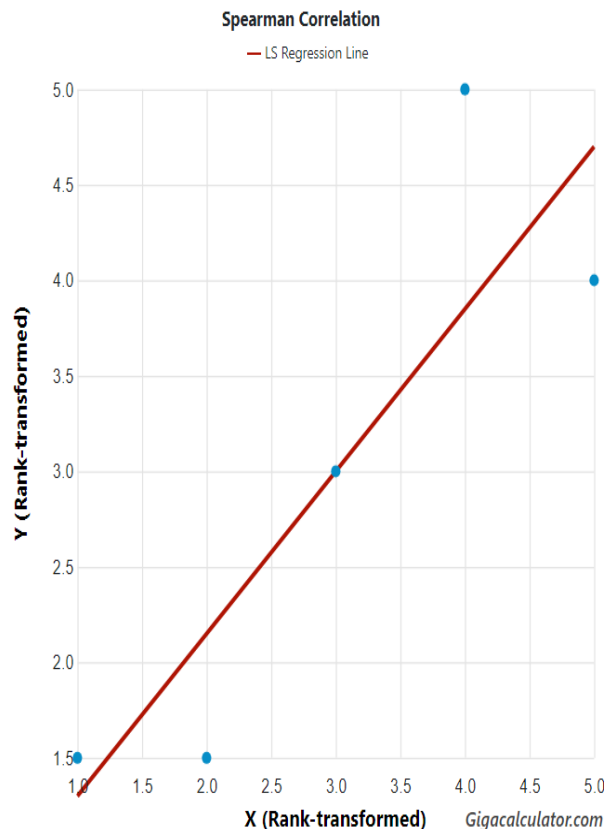


Fig. 1. Correlation between copulation duration (x) and maximum precipitation (y) across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between copulation duration with maximum precipitation in *Centrobolus*.

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APPENDIX 1. The copulation durations (minutes) followed by maximum precipitation (mm) *Centrobolus* Cook, 1897.

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