

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

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Abstract- Copulation duration was tested for a correlation with month with the highest number of rainy days in red millipedes *Centrobolus*. Copulation duration was correlated with month with the highest number of rainy days ($r=-0.9217$, $r^2=0.8495$, $n=4$, $p=0.001118$).

Keywords: hours of sunshine, rainy days, 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 [1-551]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [226]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [225]. These worm-like millipedes have female-biased sexual size dimorphism [57].

Here, the copulation duration was tested for a correlation with month with the highest number of rainy days 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 copulation duration and the highest number of rainy days was generated from duplicated data at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

Copulation duration was correlated with month with the highest number of rainy days ($r=-0.9217$, $r^2=0.8495$, $n=4$, $p=0.001118$).

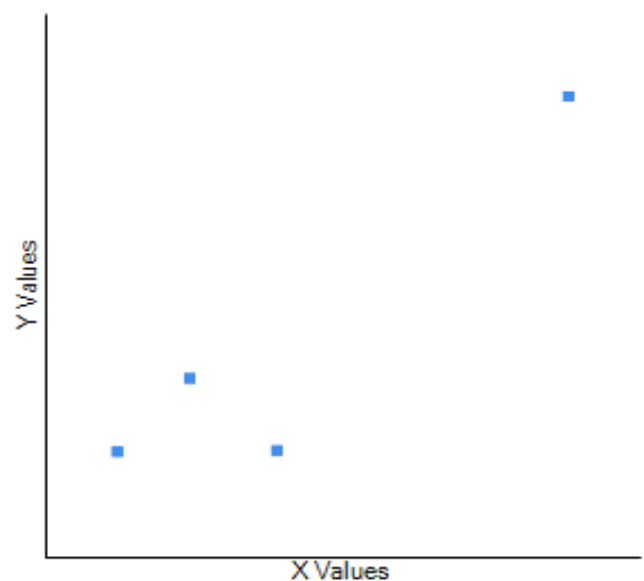


Fig. 1. Correlation between copulation duration (y) and month with the highest number of rainy days (x) across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between copulation duration with month with the highest number of rainy days in *Centrobolus*.

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APPENDIX 1. The copulation durations (minutes) in *Centrobolus* Cook, 1897.

39.4
66.4
170
39.8
39.4
66.4
170
39.8

APPENDIX 2. Month with the highest number of rainy days in *Centrobolus* Cook, 1897 where copulation durations were recorded.

13.73
13.97
15.23
14.26
13.73
13.97
15.23
14.26