

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

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**Abstract-** Month with the lowest number of rainy days was tested for a correlation with copulation duration in red millipedes *Centrobolus*. Month with the lowest number of rainy days was related to copulation duration (Pearson's  $r=0.94424610$ , Z score= $1.77584108$ ,  $n=4$ ,  $p=0.03787951$ ).

**Keywords:** copulation, duration, lowest, month, rain, Red Millipedes.

## I. INTRODUCTION

Red millipedes are found in the southern African subregion with northern limits on the east coast being about  $-17^\circ$  latitude S and southern limits being  $-35^\circ$  latitude S. They are well represented in the littoral forests of the eastern half of the subcontinent [1-436]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [436]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [435]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, month with the lowest number of rainy days is correlated with copulation duration in *Centrobolus* Cook, 1897.

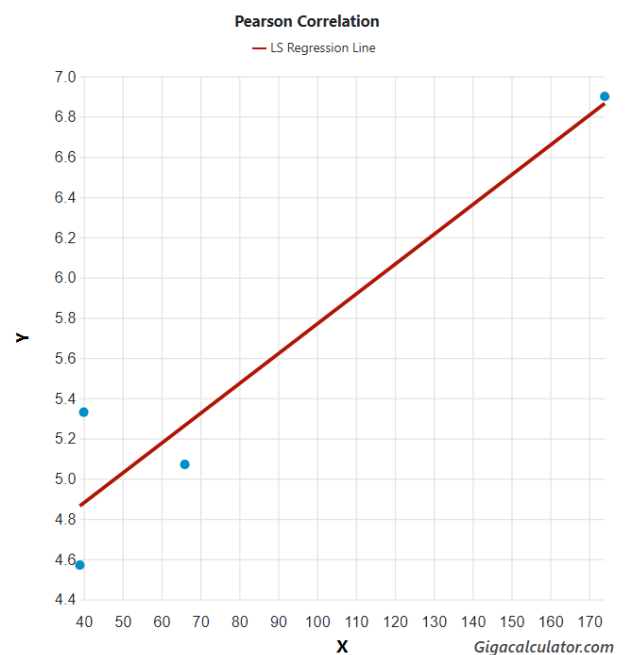
## II. MATERIALS AND METHODS

A correlation between month with the lowest number of rainy days and copulation duration was generated at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php> (Appendix 1). Month with the lowest number of rainy days was obtained at <https://en.climate-data.org/>. Copulation durations were obtained at [7].

## III. RESULTS

Month with the lowest number of rainy days was related to copulation duration (Figure 1:

Pearson's  $r=0.94424610$ , Z score= $1.77584108$ ,  $n=4$ ,  $p=0.03787951$ ).



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

## IV. DISCUSSION

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

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**APPENDIX 1.** Month with the lowest number of rainy days (days) preceded by copulation duration (minutes) in coastal *Centrobolus* Cook, 1897.

66, 5.07  
39, 4.57  
40, 5.33

174, 6.9.