CURVED SURFACE AREA IS RELATED TO MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897

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***Abstract*- Moments of inertia was tested for a correlation with curved surface area in red millipedes *Centrobolus*. The moments of inertia were correlated with curved surface area (r=-0.6671, r^2=0.445, n=10, p=0.000512).**

***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 [1-529]. 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 moments of inertia was tested for a correlation with curved surface area 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 moments of inertia with curved surface area was generated at https://www.socscistatistics.com/tests/pearson/default2.aspx (Appendix 1 & 2 respectively).

III. RESULTS

The moments of inertia were correlated with curved surface area (Fig. 1: r=- 0.6671, r^2=0.445, n=10, p=0.000512).

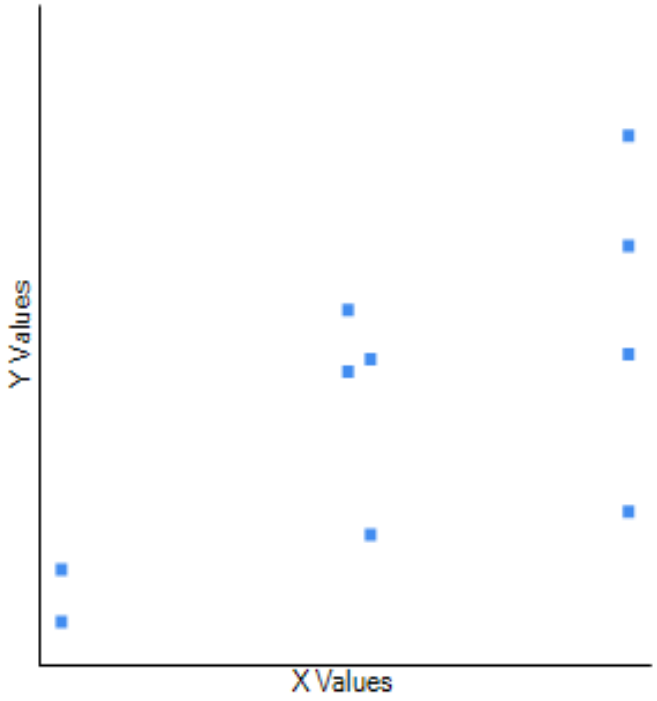

Fig. 1. Correlation between moments of inertia (Y) and curved surface area (X) across therange of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between moments of inertia with curved surface area in *Centrobolus*.

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APPENDIX 1. The moments of inertia in *Centrobolus* Cook, 1897.

10.791
4.7021
4.00
1.36
8.9401
12.738
9.4659
9.3025
2.9376
16.078

APPENDIX 2. Curved surface area in four species of *Centrobolus* Cook, 1897 for which mass were recorded.

1764.318
2483.743
1822.124
1030.442